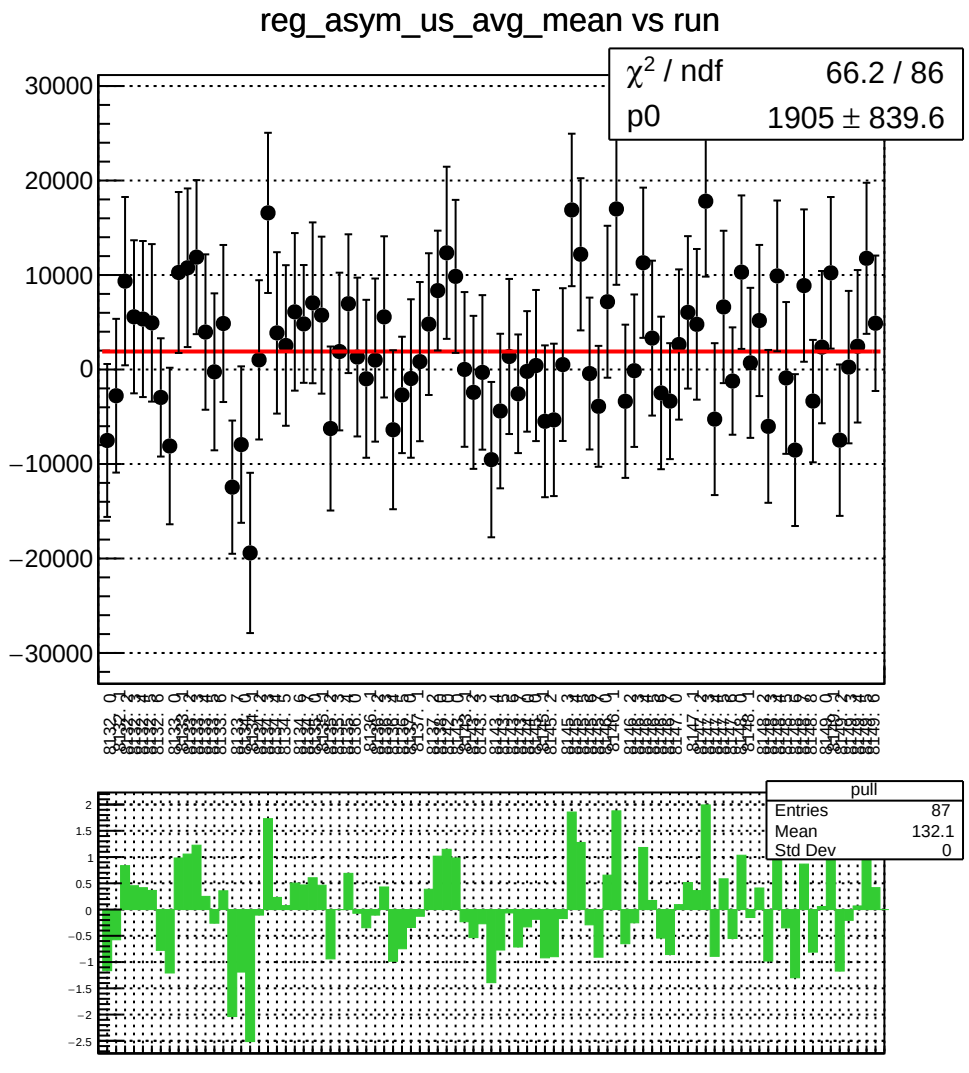
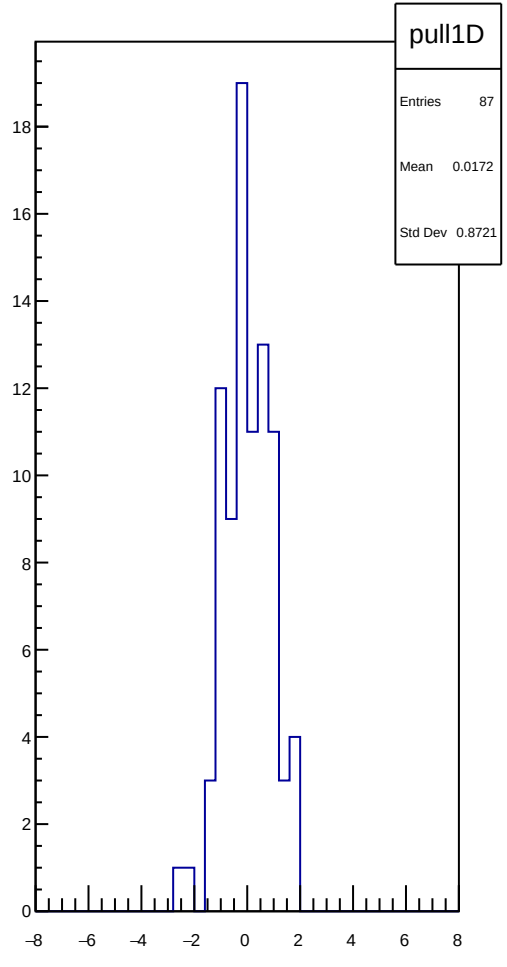
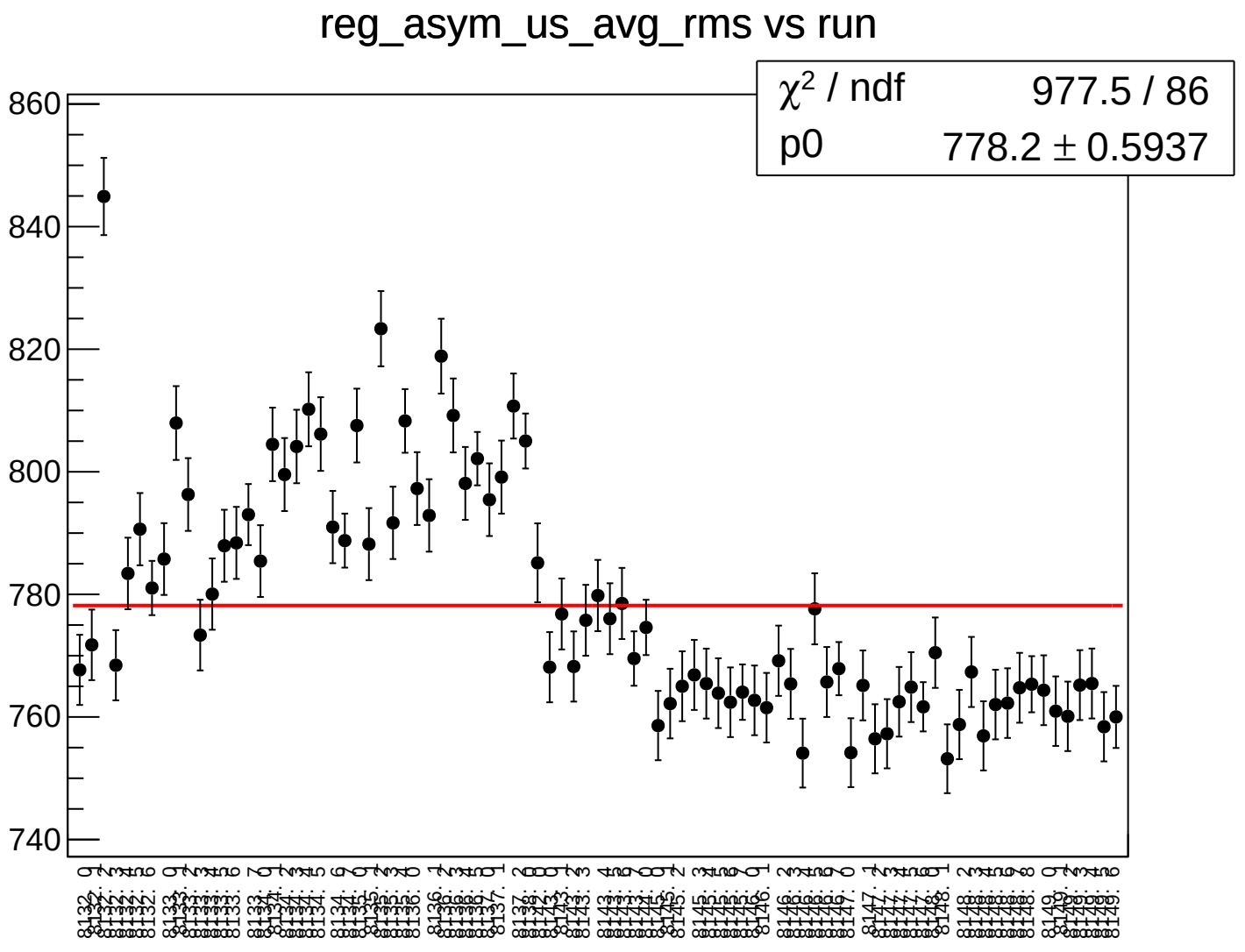
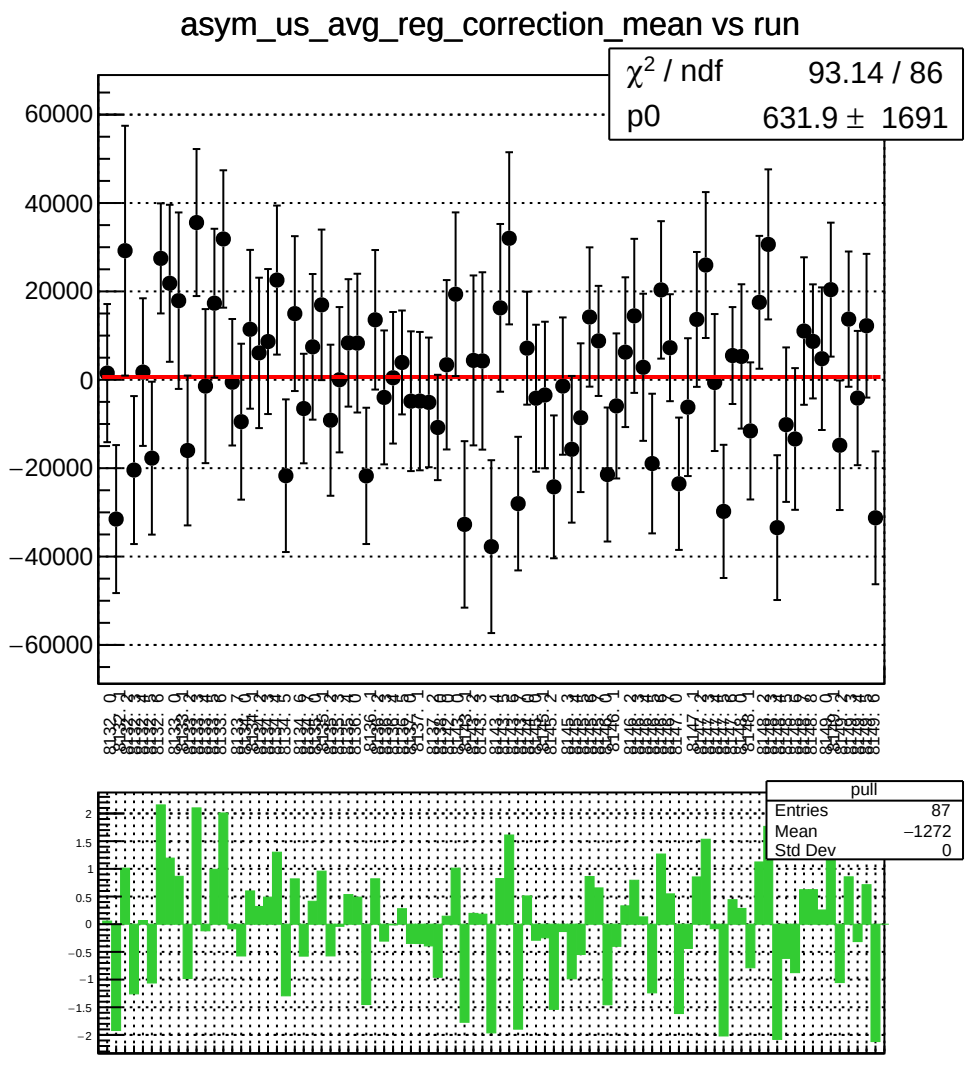
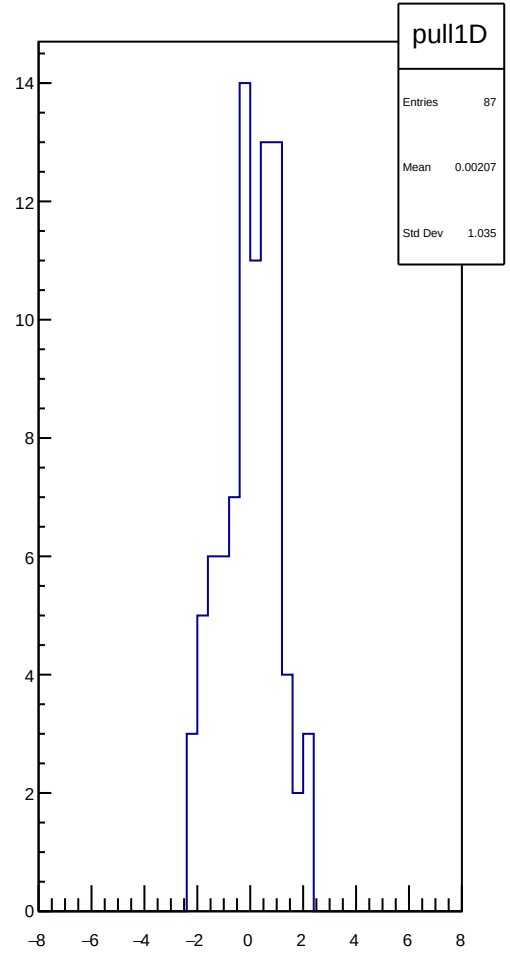

reg_asym_us_avg_mean vs run
χ² / ndf 66.2 / 86
p0 1905 ± 839.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean 132.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

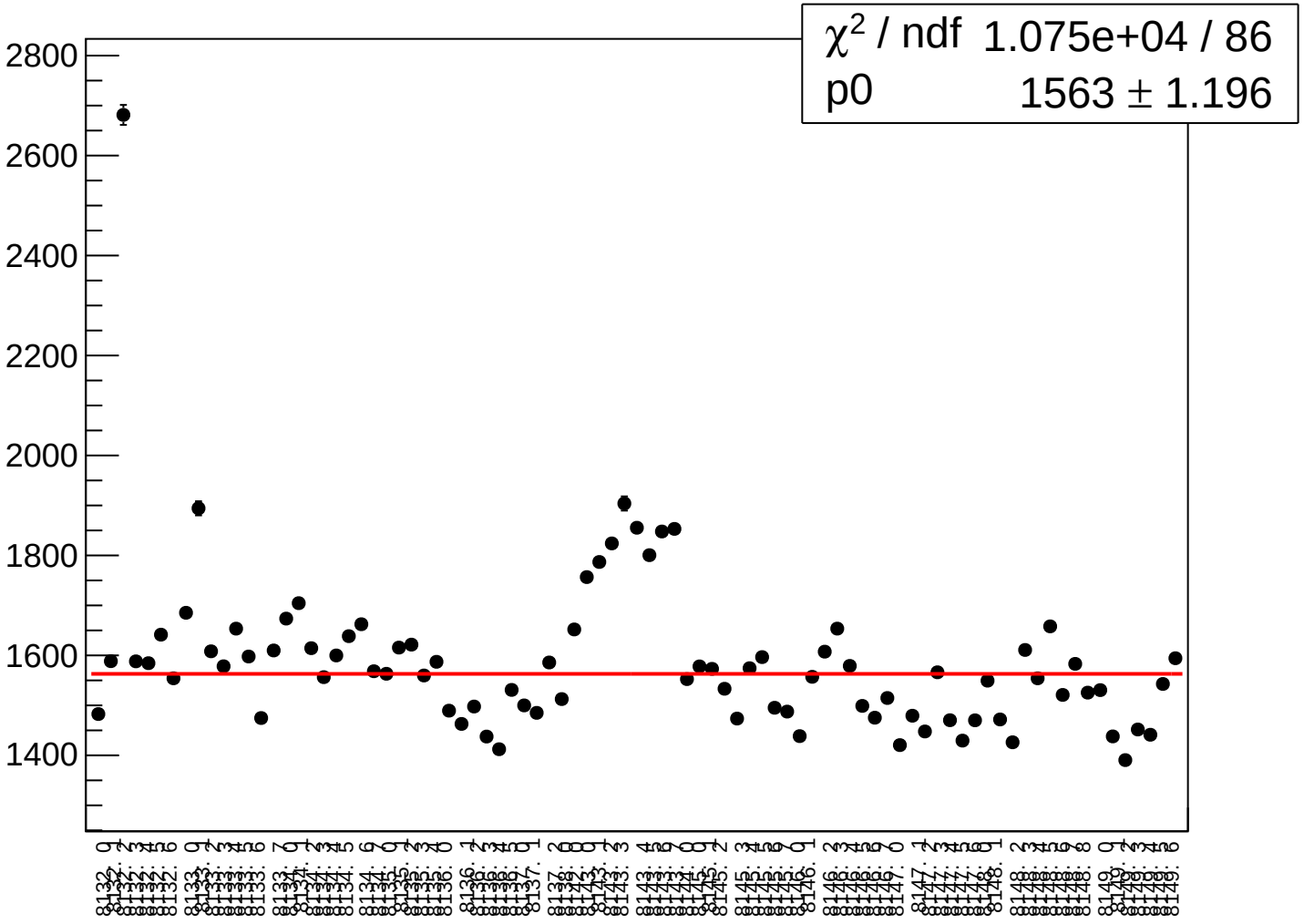

pull1D
Entries 87
Mean 0.0172
Std Dev 0.8721
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

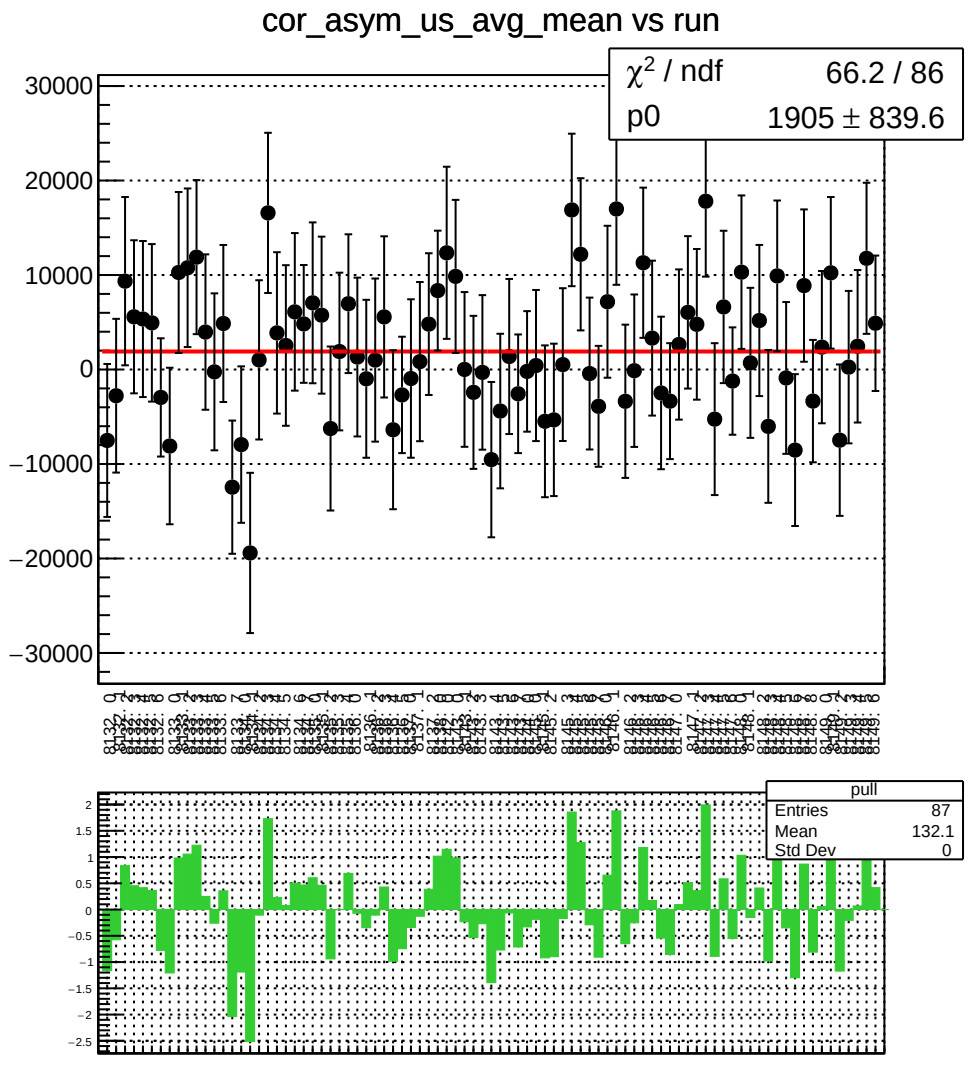

reg_asym_us_avg_rms vs run
χ² / ndf 977.5 / 86
p0 778.2 ± 0.5937
860
840
820
800
780
760
740

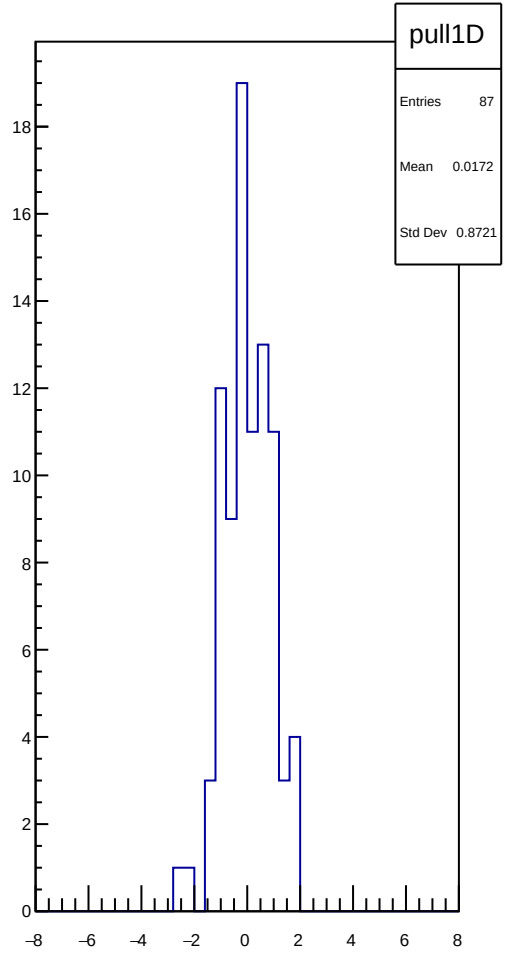

asym_us_avg_reg_correction_mean vs run
χ² / ndf 93.14 / 86
p0 631.9 ± 1691
pull
Entries 87
Mean −1272
Std Dev 0

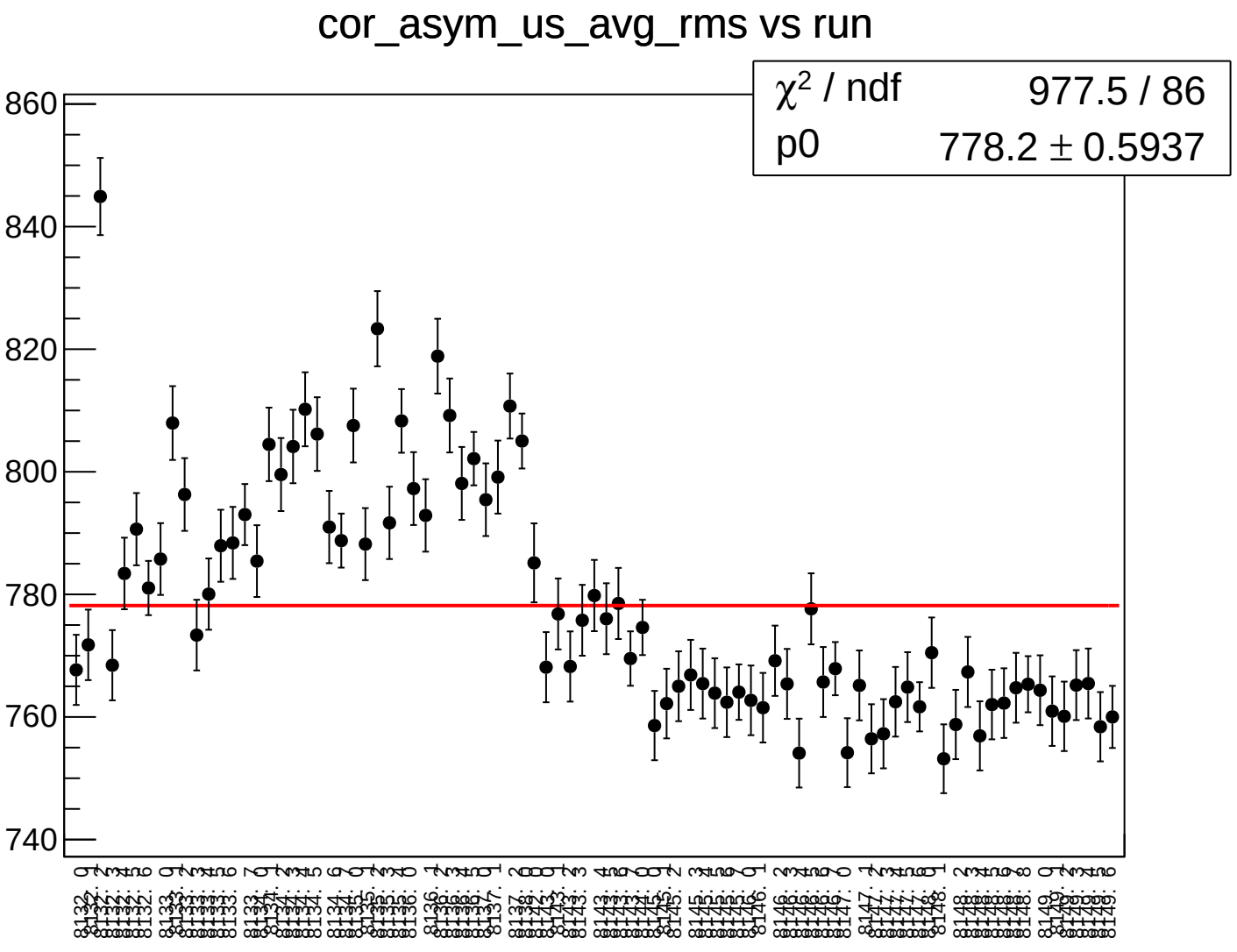

pull1D
Entries 87
Mean 0.00207
Std Dev 1.035

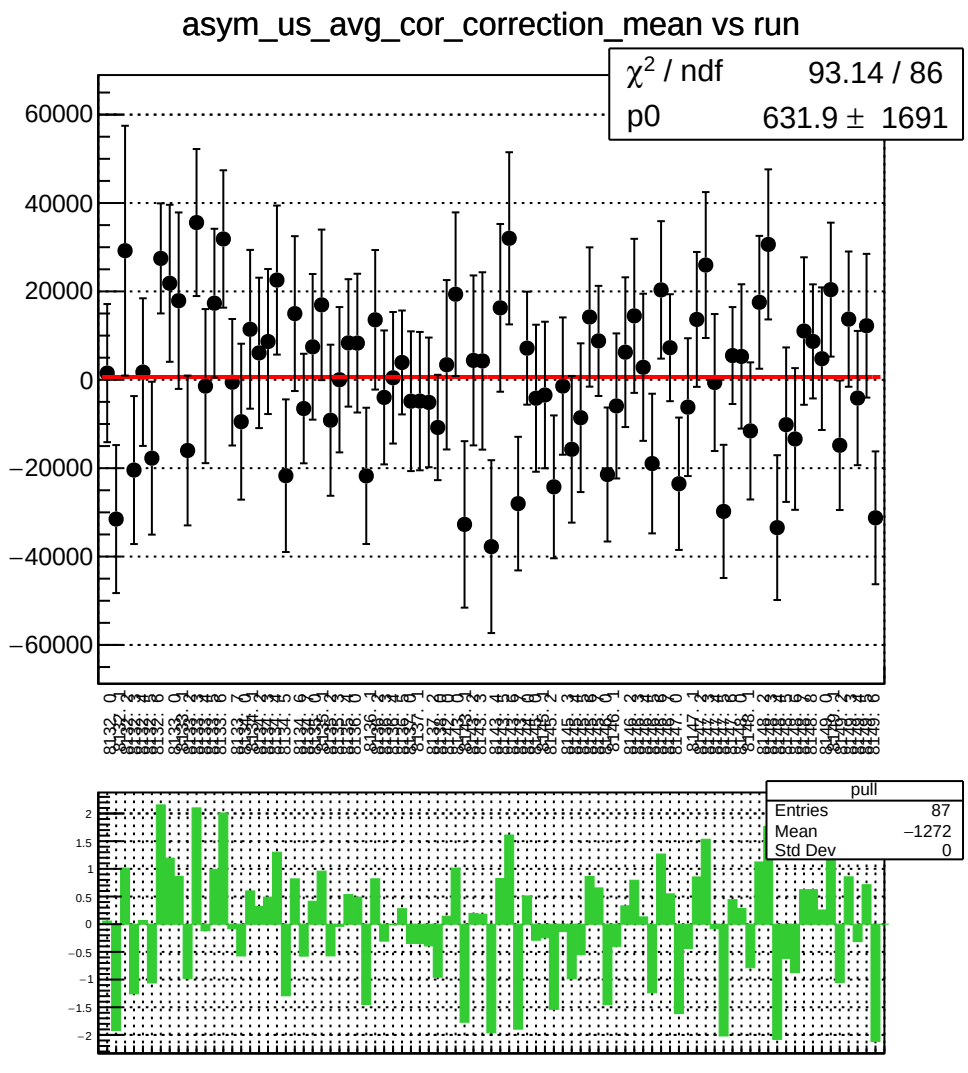
asym_us_avg_reg_correction_rms vs run

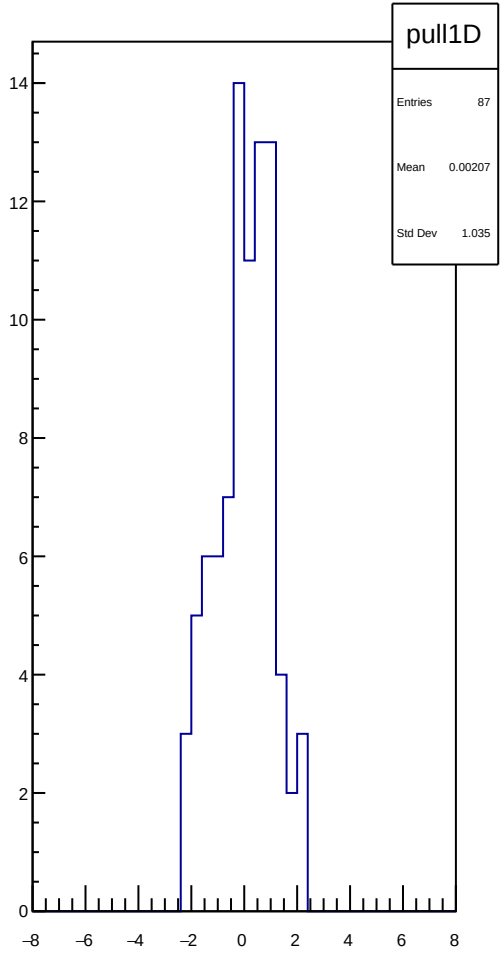


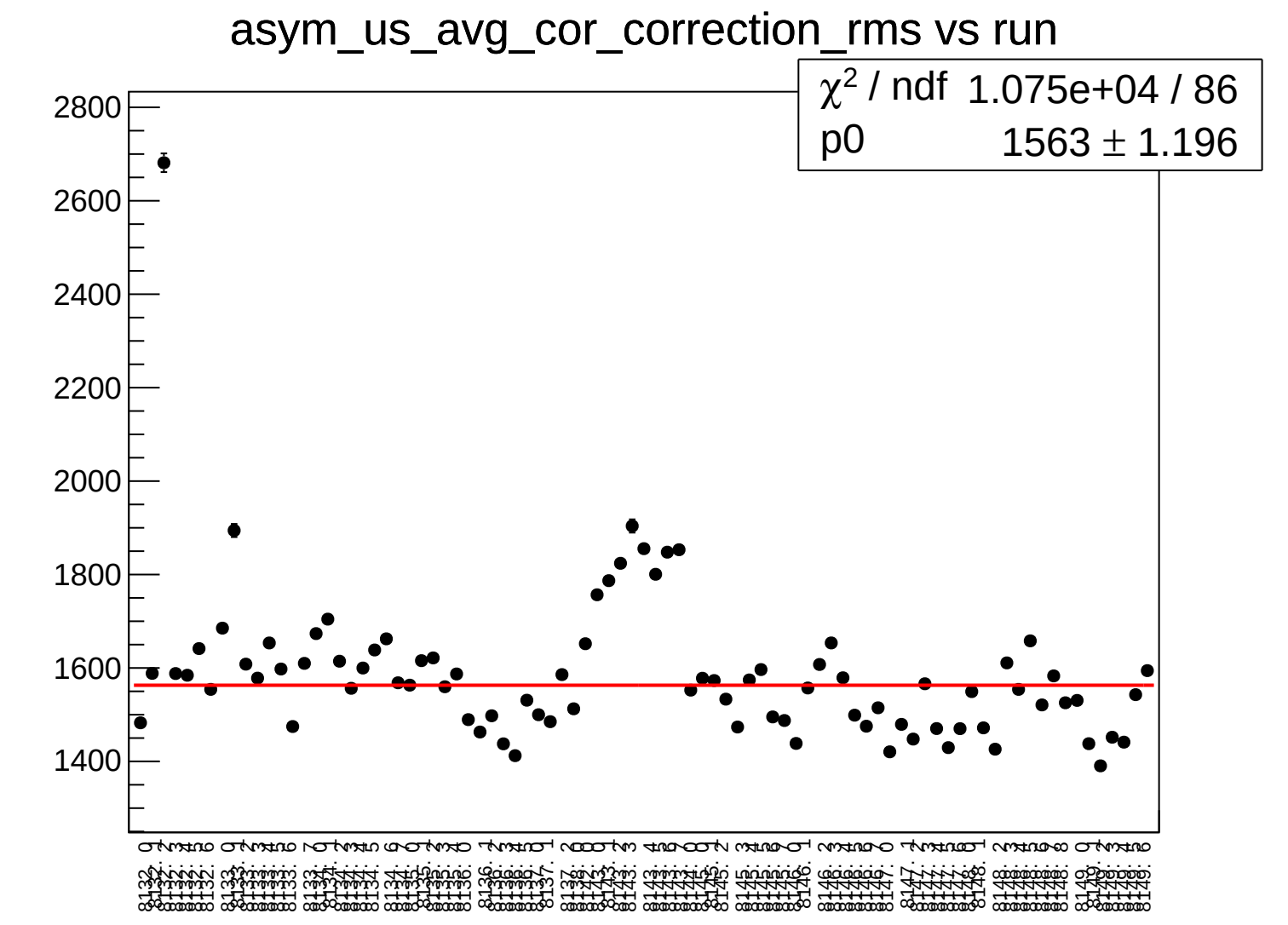

cor_asym_us_avg_mean vs run
χ² / ndf 66.2 / 86
p0 1905 ± 839.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean 132.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

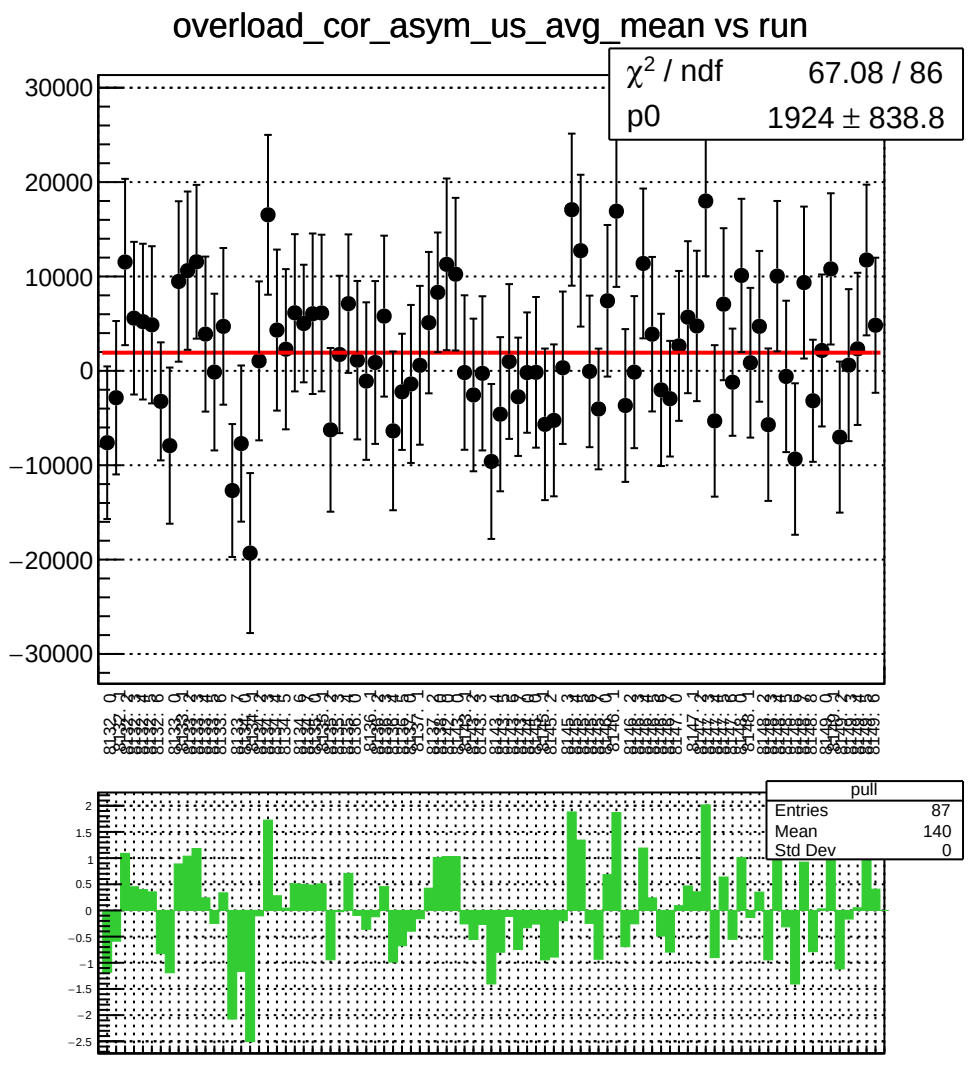

pull1D
Entries 87
Mean 0.0172
Std Dev 0.8721
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

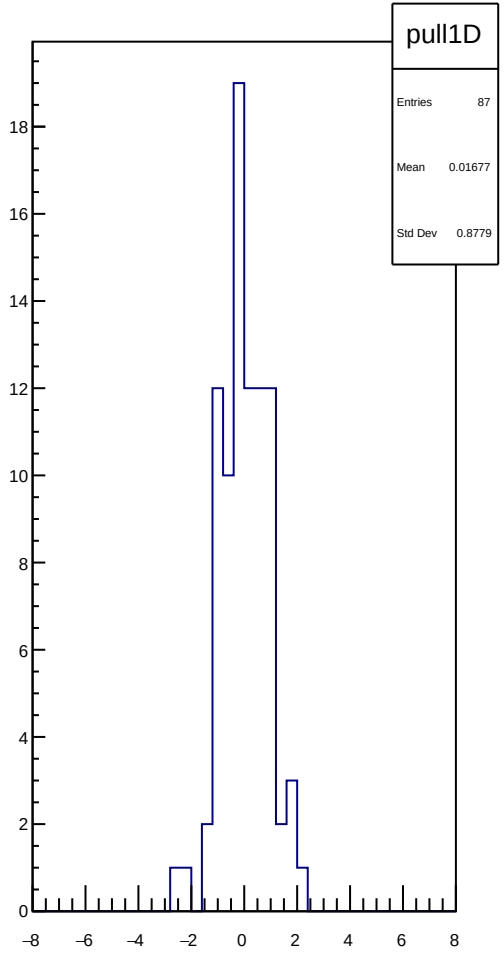

cor_asym_us_avg_rms vs run
χ^2 / ndf 977.5 / 86
p0 778.2 ± 0.5937
860
840
820
800
780
760
740

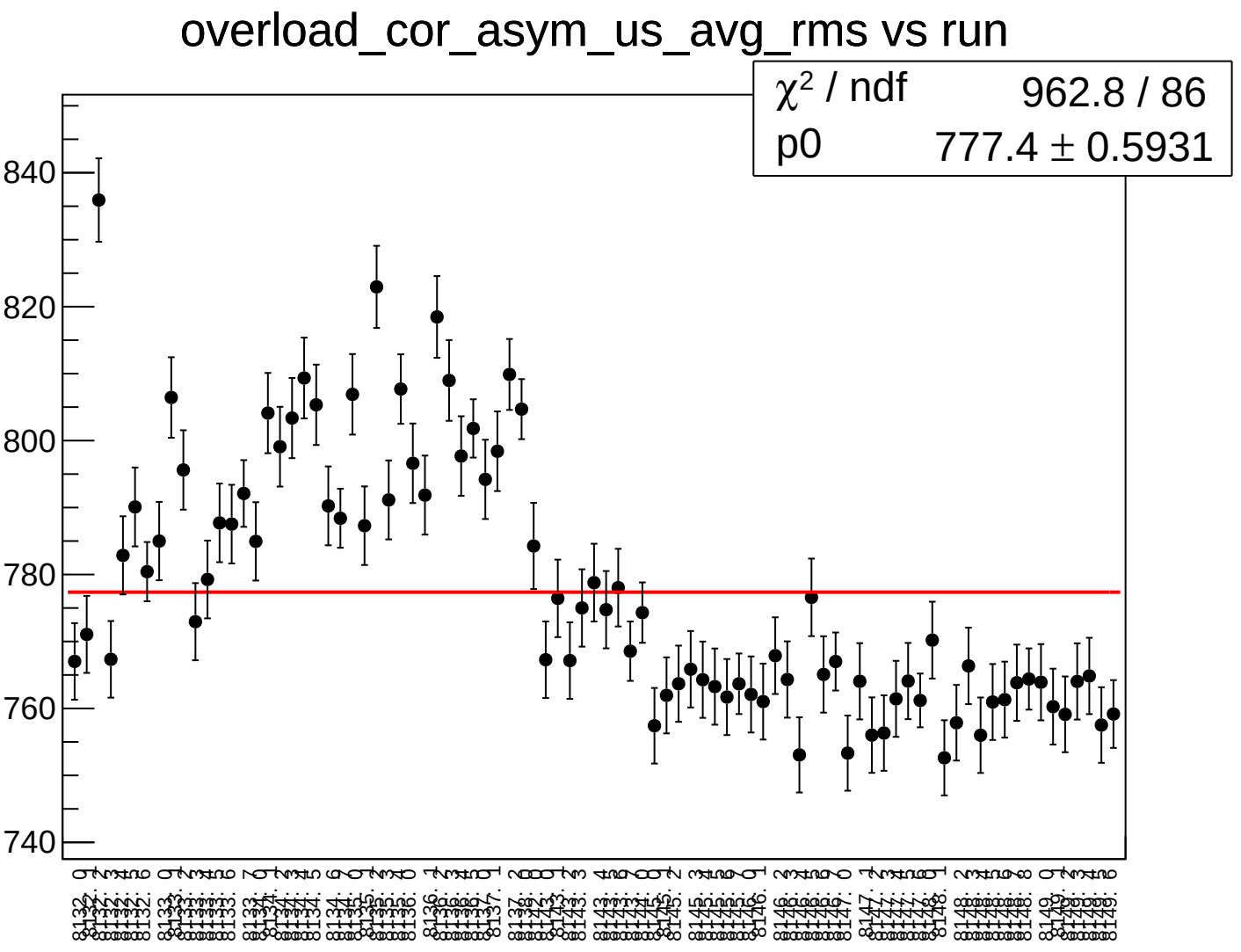

asym_us_avg_cor_correction_mean vs run
χ² / ndf 93.14 / 86
p0 631.9 ± 1691
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −1272
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

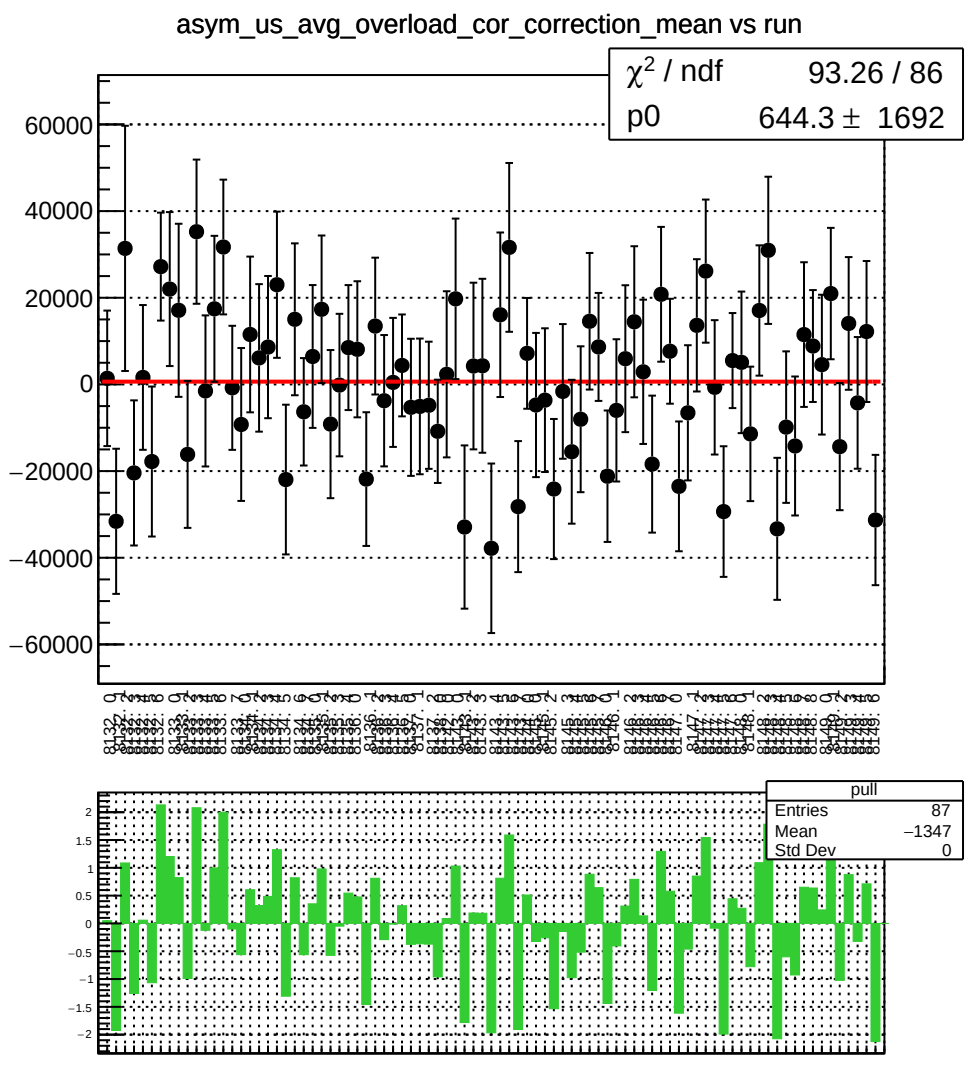

pull1D
Entries 87
Mean 0.00207
Std Dev 1.035
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

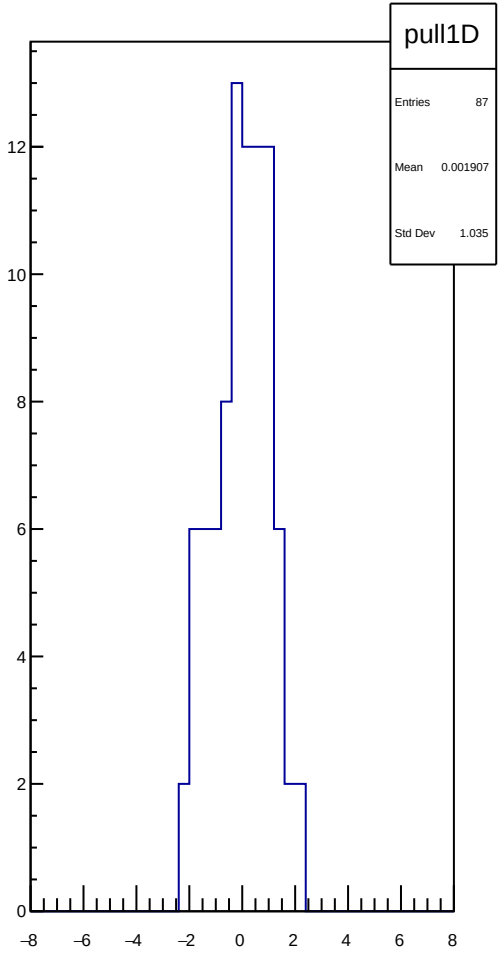

asym_us_avg_cor_correction_rms vs run
χ² / ndf 1.075e+04 / 86
p0 1563 ± 1.196
2800
2600
2400
2200
2000
1800
1600
1400

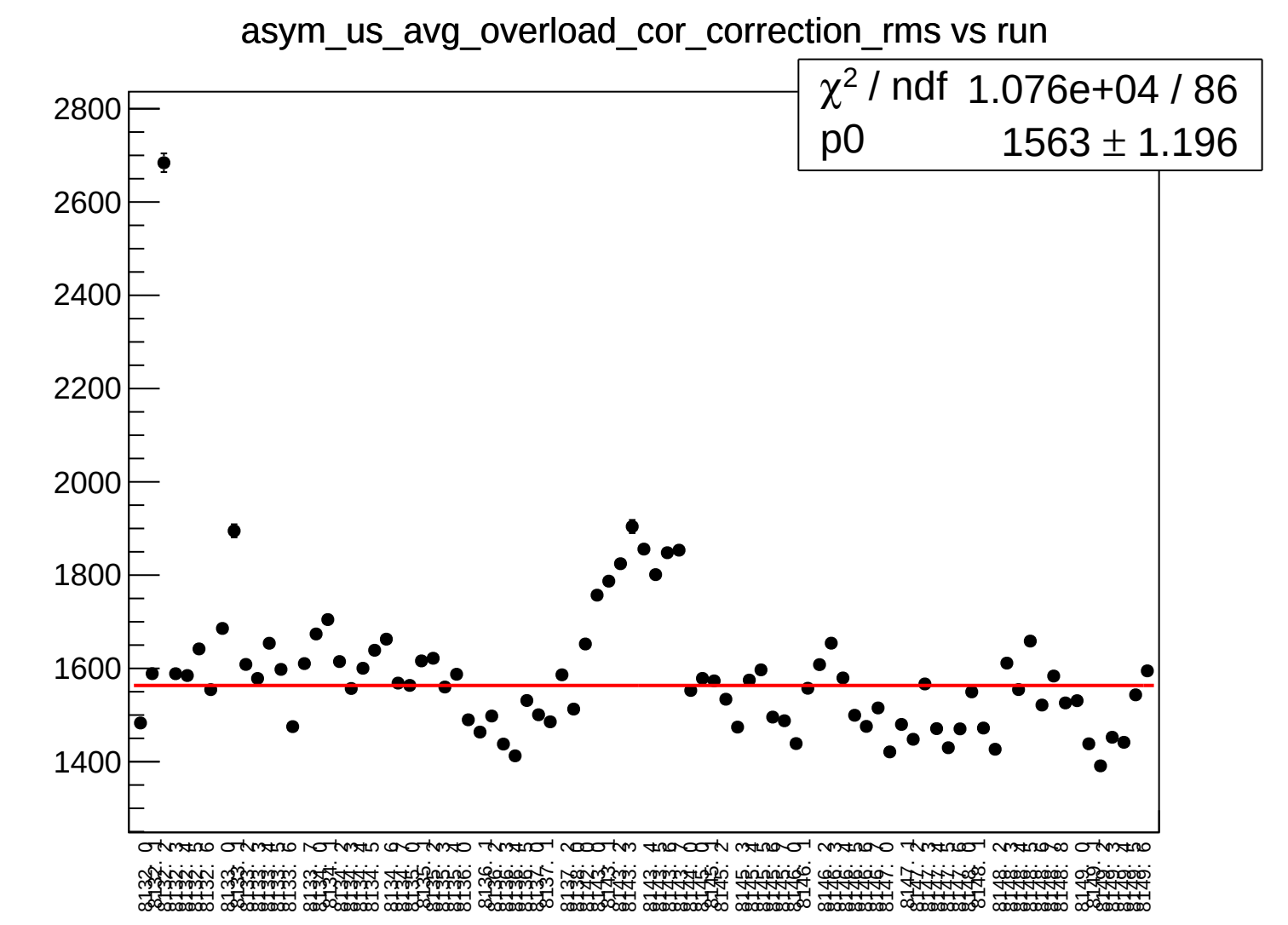

overload_cor_asym_us_avg_mean vs run
χ² / ndf 67.08 / 86
p0 1924 ± 838.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean 140
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

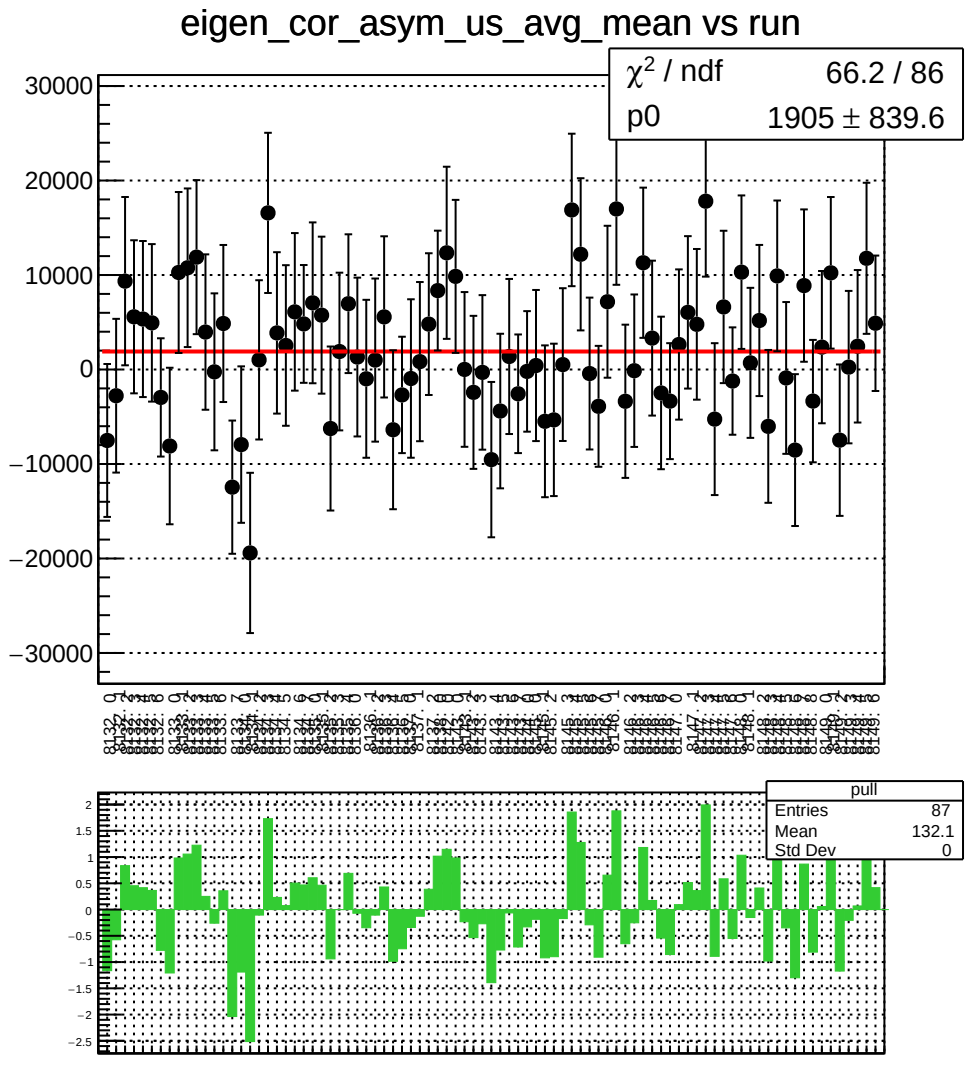

pull1D
Entries 87
Mean 0.01677
Std Dev 0.8779
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

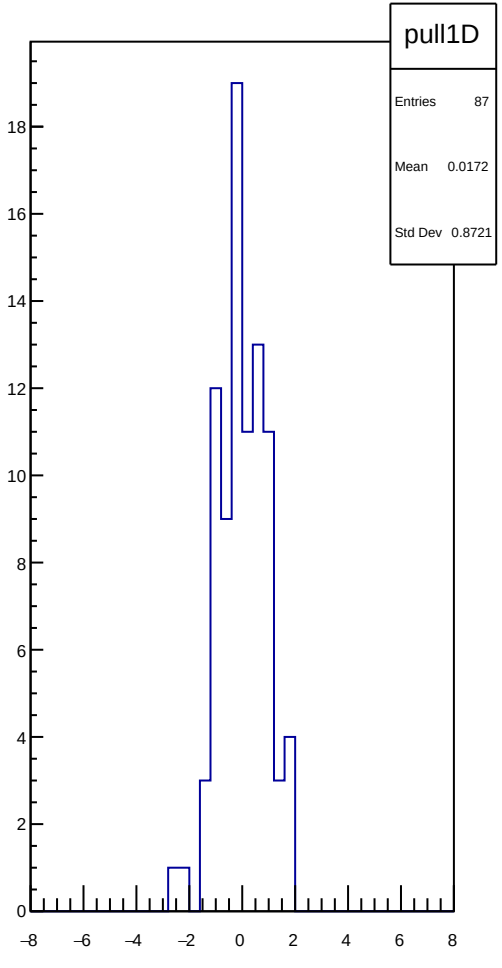

overload_cor_asym_us_avg_rms vs run
χ² / ndf 962.8 / 86
p0 777.4 ± 0.5931
840
820
800
780
760
740

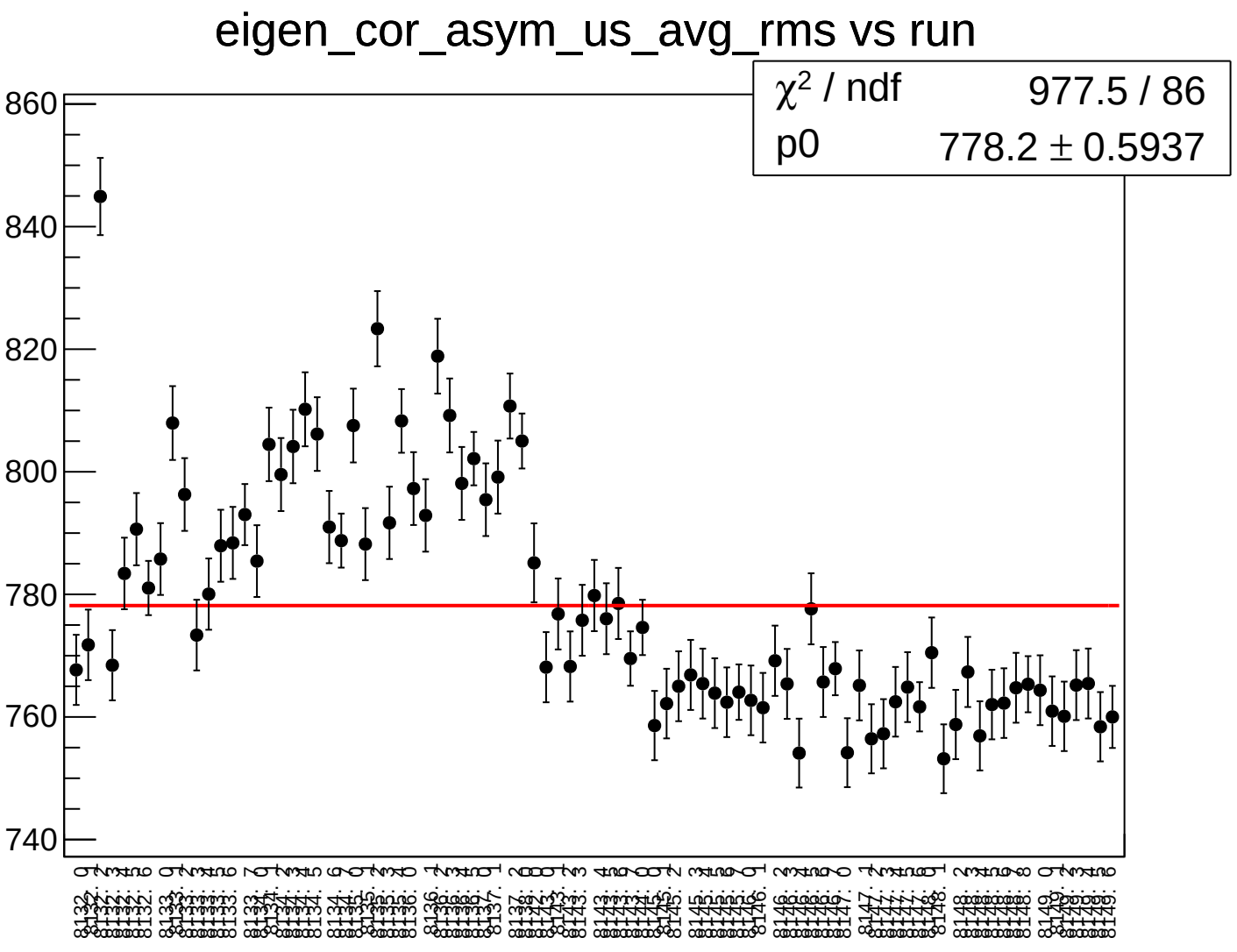

asym_us_avg_overload_cor_correction_mean vs run
χ² / ndf 93.26 / 86
p0 644.3 ± 1692
pull
Entries 87
Mean −1347
Std Dev 0

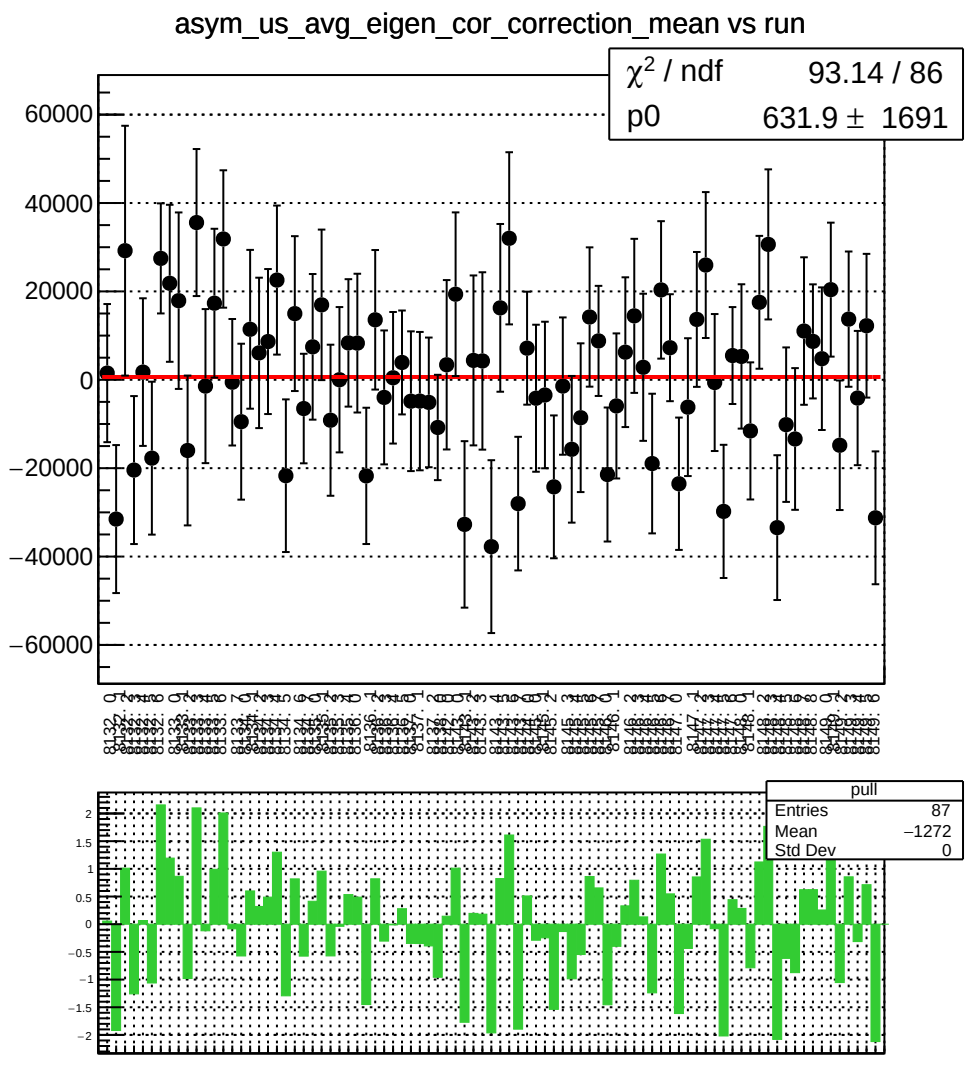

pull1D
Entries 87
Mean 0.001907
Std Dev 1.035

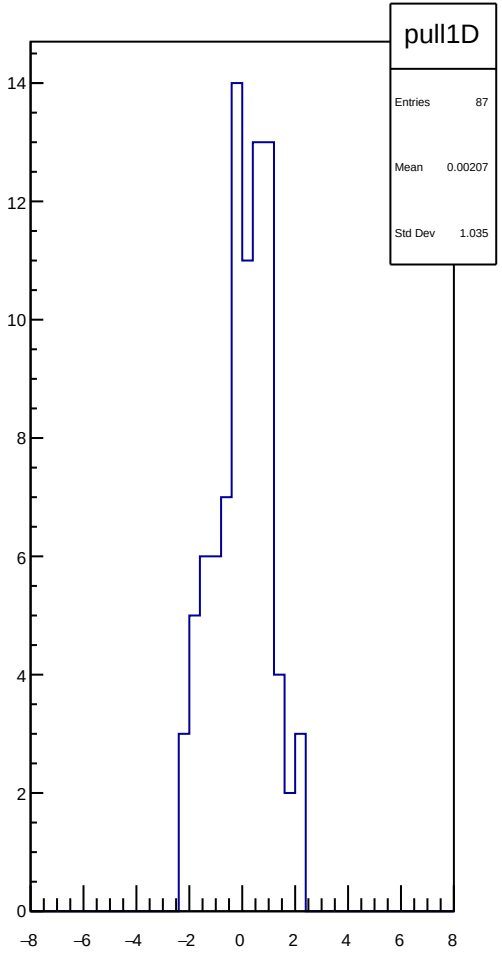

asym_us_avg_overload_cor_correction_rms vs run
χ² / ndf 1.076e+04 / 86
p0 1563 ± 1.196
2800
2600
2400
2200
2000
1800
1600
1400

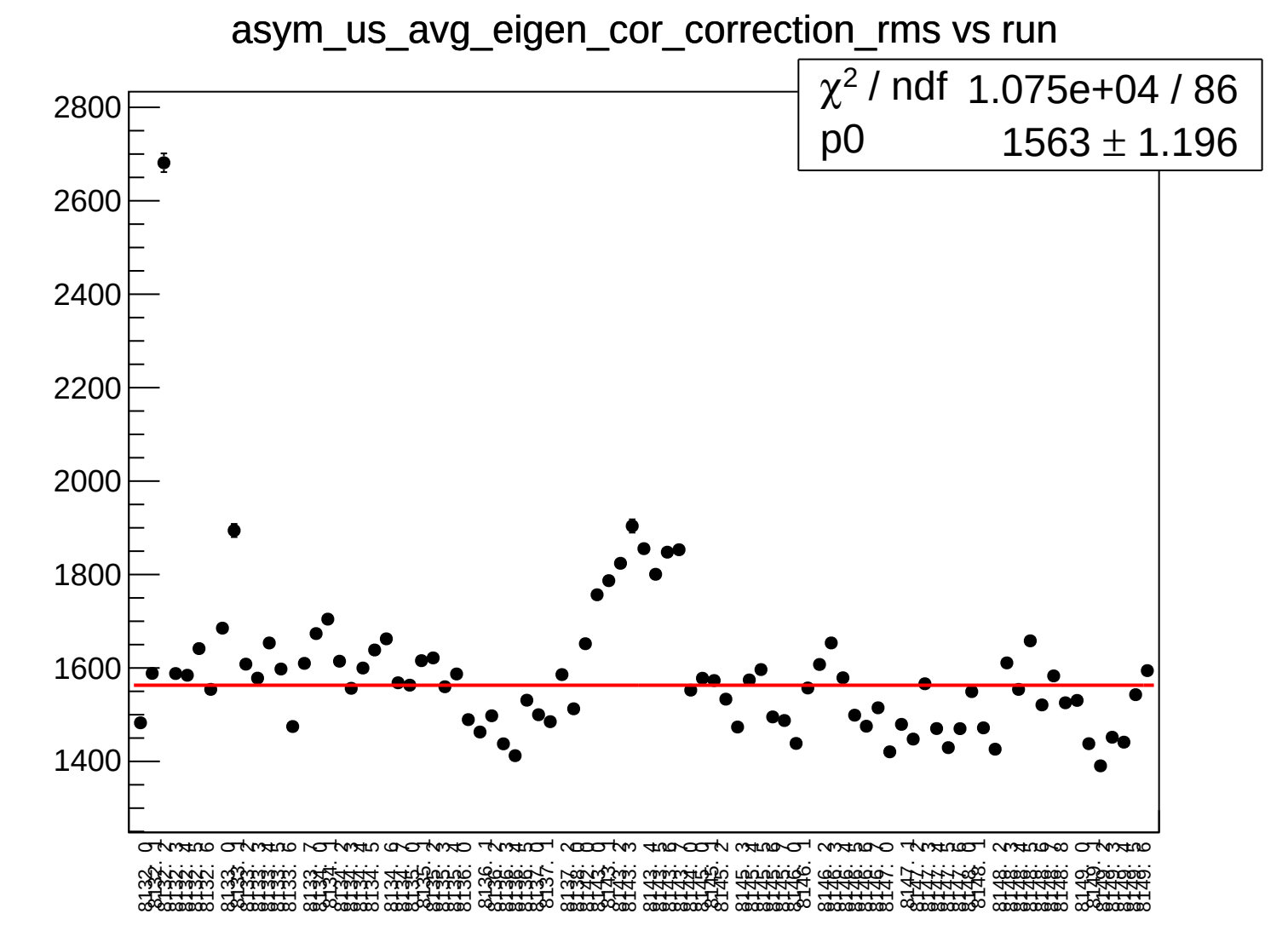

eigen_cor_asym_us_avg_mean vs run
χ² / ndf 66.2 / 86
p0 1905 ± 839.6
pull
Entries 87
Mean 132.1
Std Dev 0

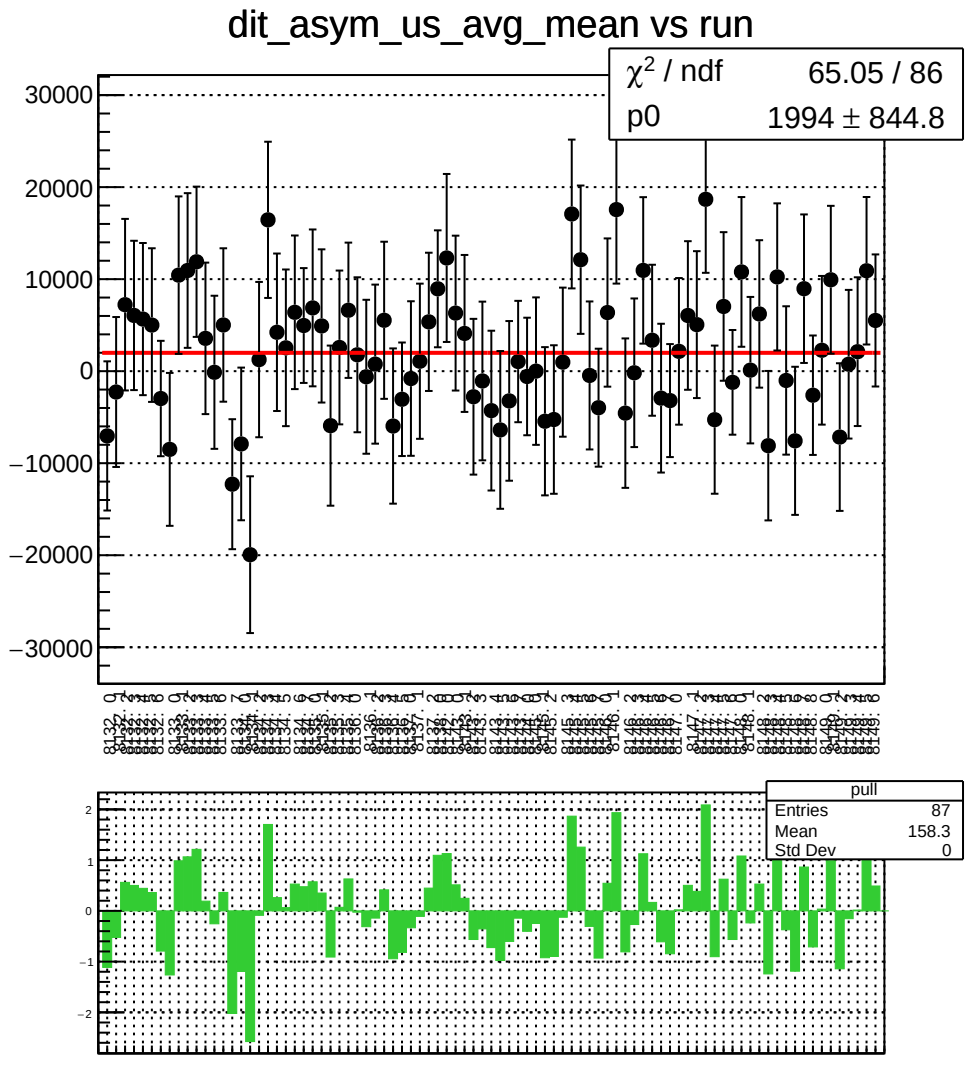

pull1D
Entries 87
Mean 0.0172
Std Dev 0.8721

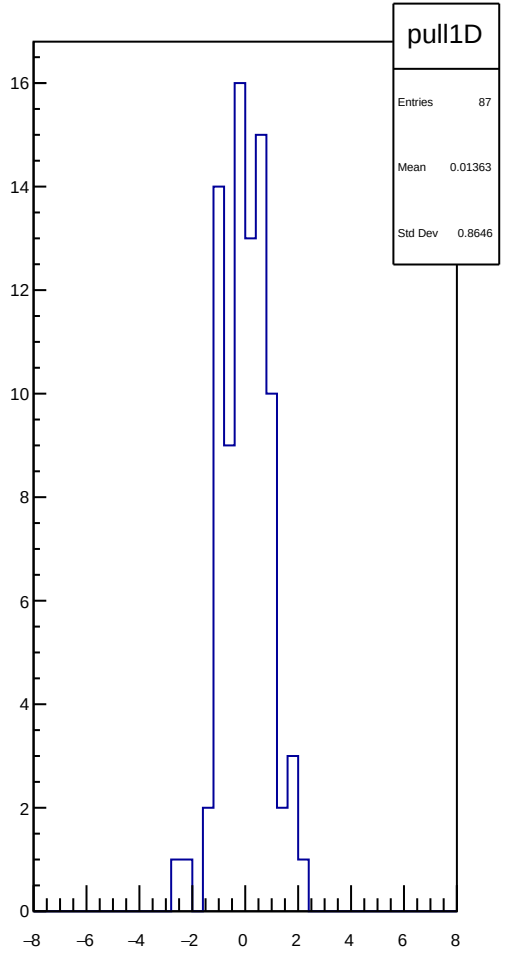

eigen_cor_asym_us_avg_rms vs run
χ^2 / ndf 977.5 / 86
p0 778.2 ± 0.5937
860
840
820
800
780
760
740

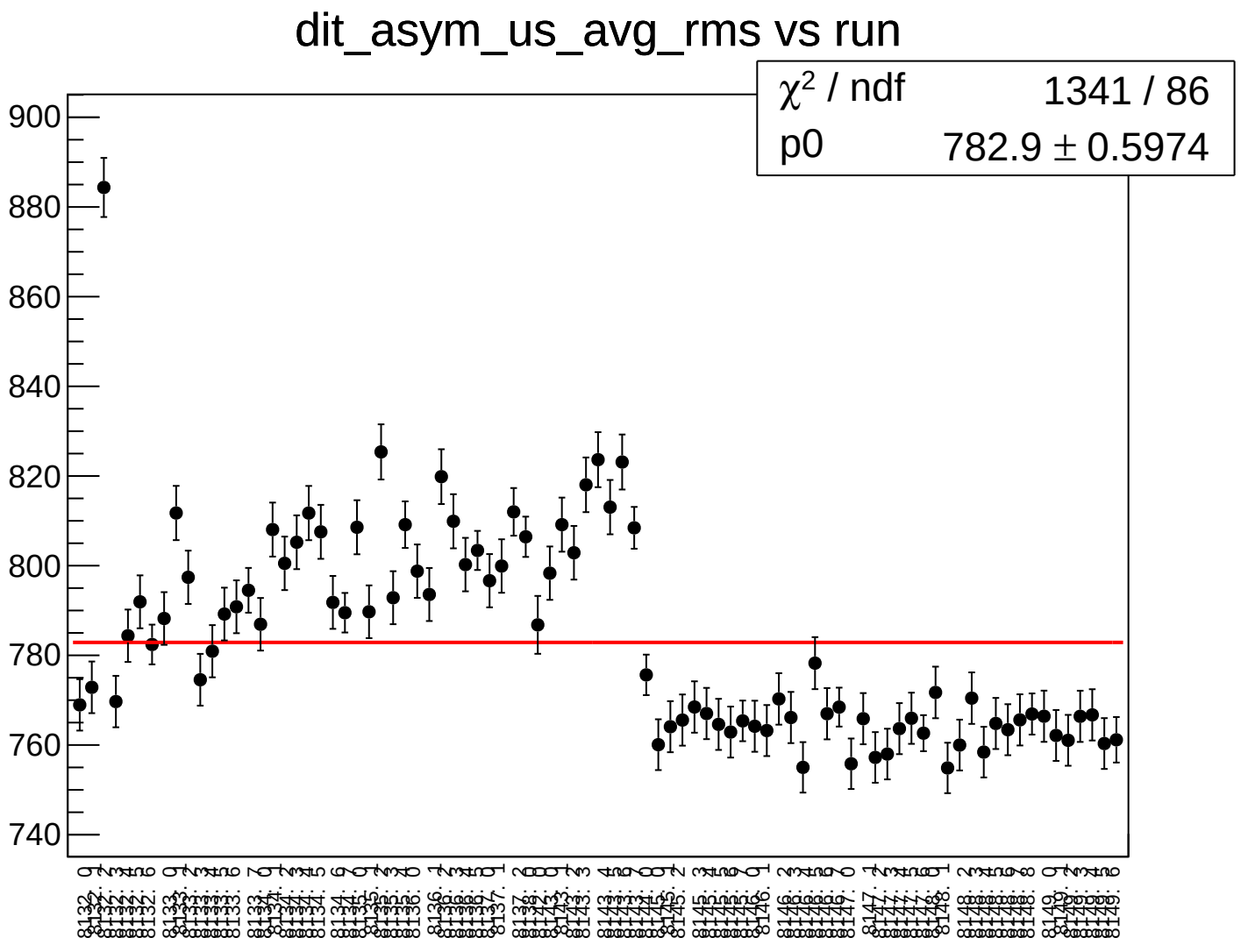

asym_us_avg_eigen_cor_correction_mean vs run
χ² / ndf 93.14 / 86
p0 631.9 ± 1691
pull
Entries 87
Mean −1272
Std Dev 0

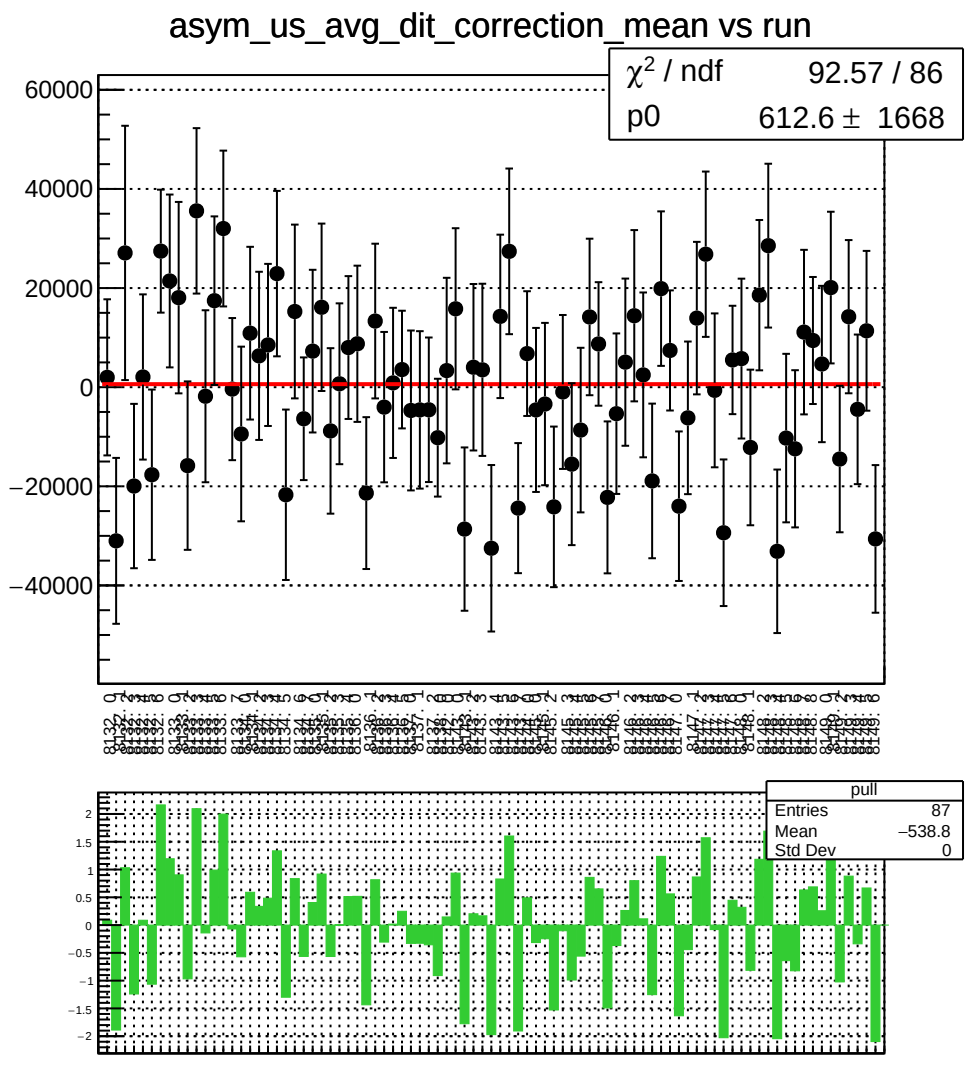

pull1D
Entries 87
Mean 0.00207
Std Dev 1.035

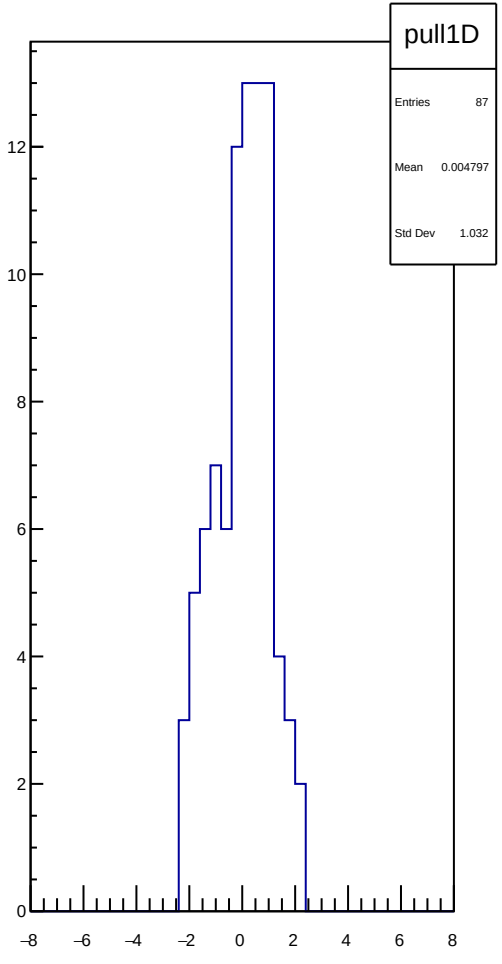

asym_us_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.075e+04 / 86
p0 1563 ± 1.196
2800
2600
2400
2200
2000
1800
1600
1400


dit_asym_us_avg_mean vs run
χ² / ndf 65.05 / 86
p0 1994 ± 844.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean 158.3
Std Dev 0
2
1
0
−1
−2

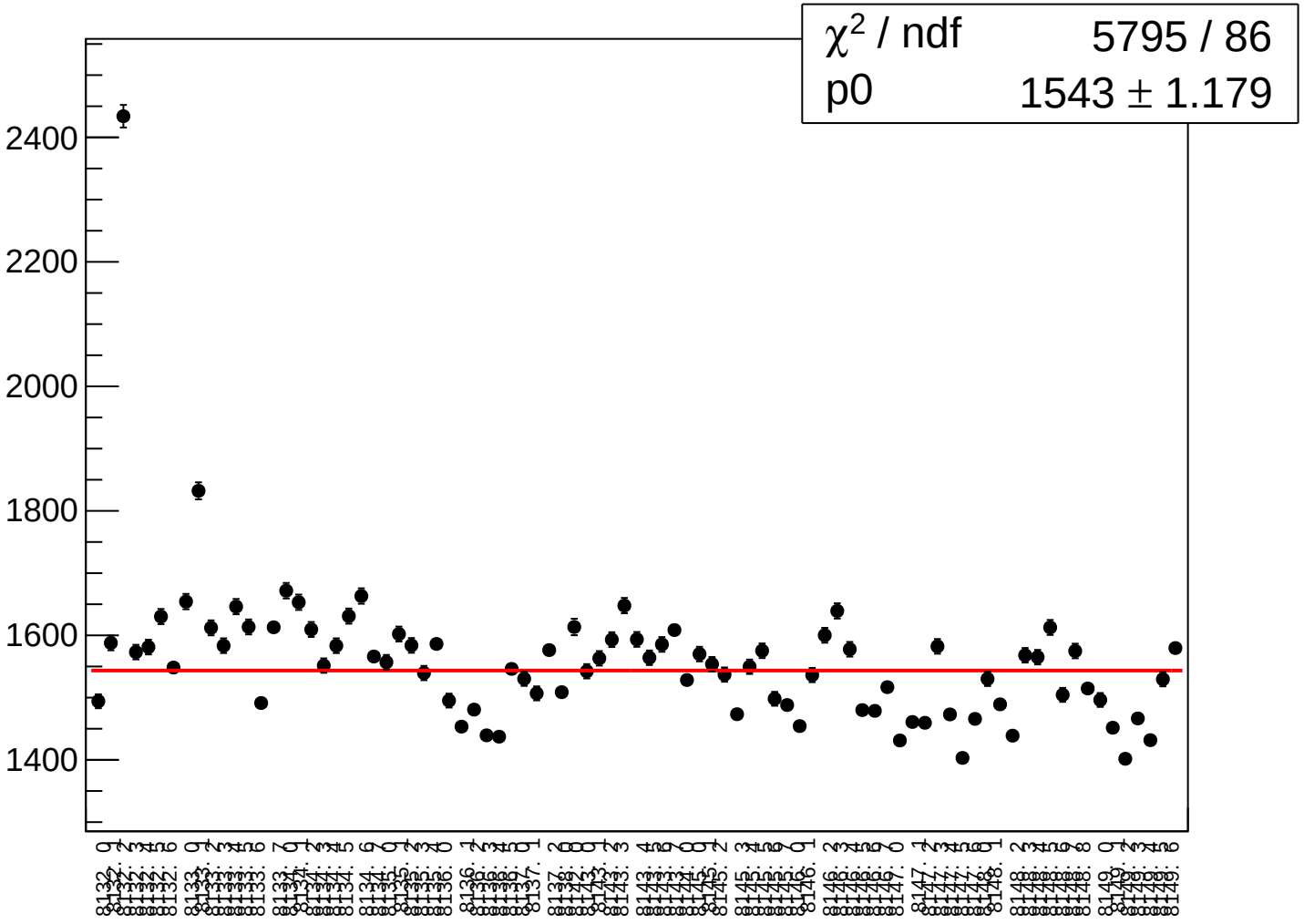

pull1D
Entries 87
Mean 0.01363
Std Dev 0.8646
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

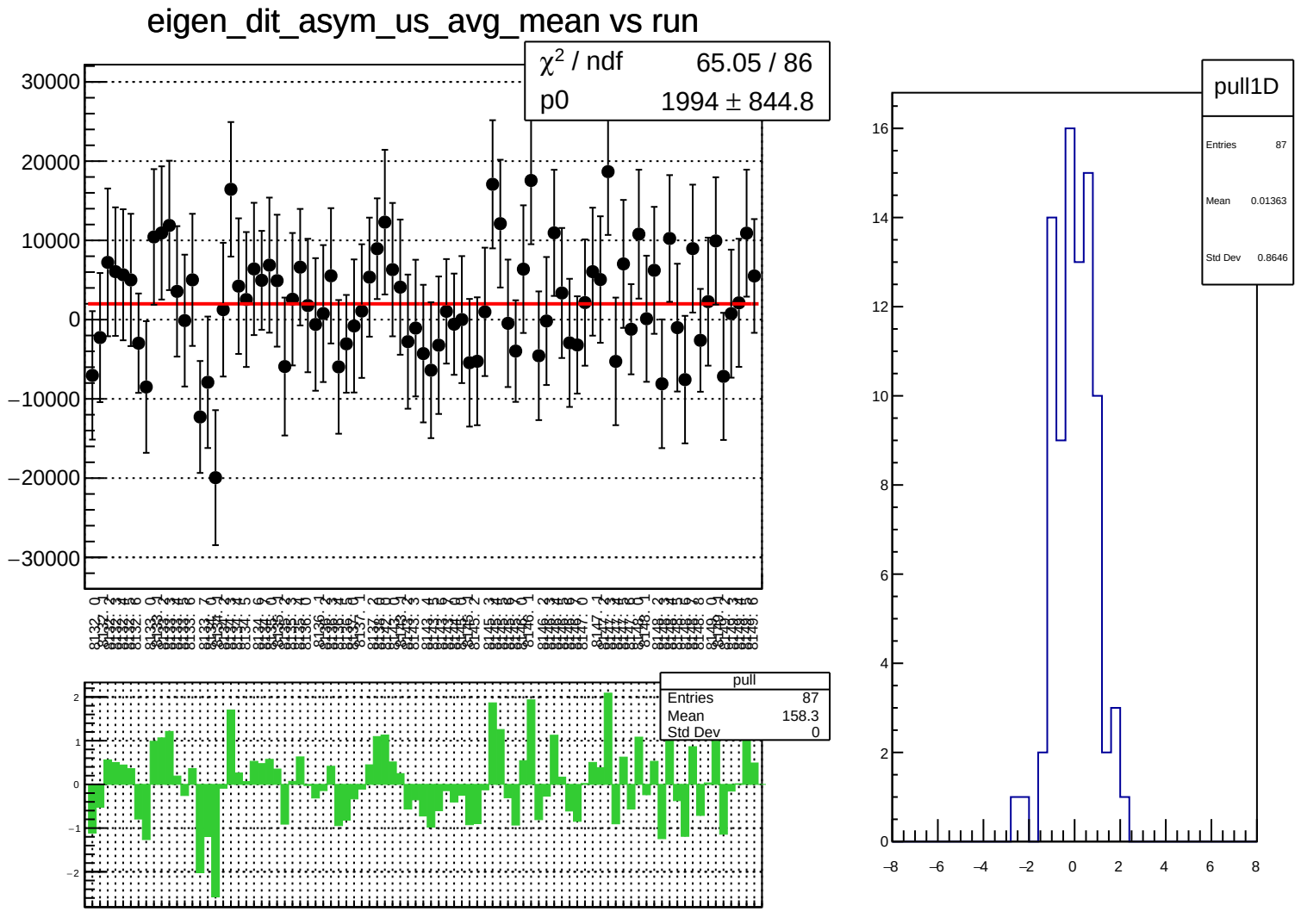

dit_asym_us_avg_rms vs run
χ² / ndf 1341 / 86
p0 782.9 ± 0.5974
900
880
860
840
820
800
780
760
740

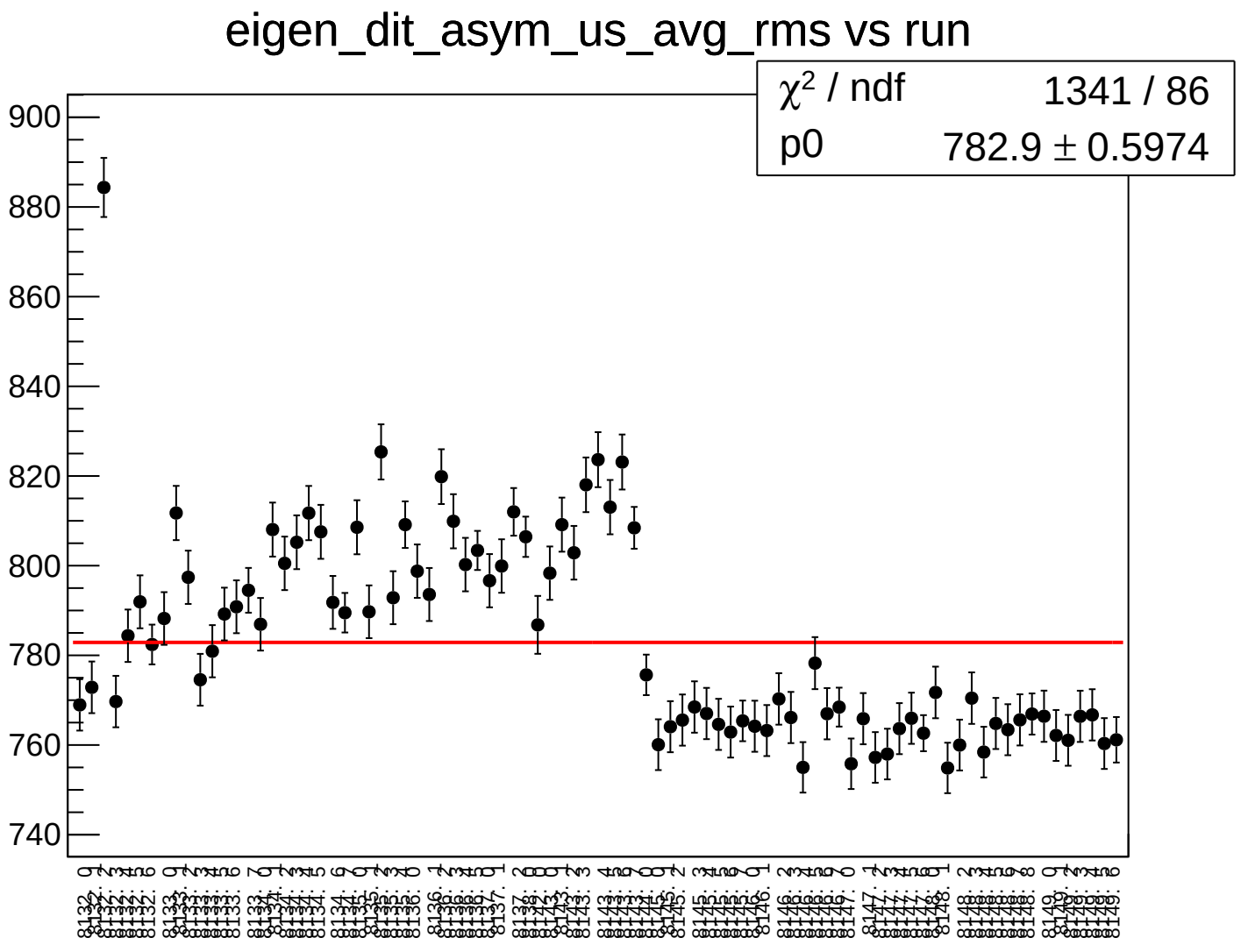

asym_us_avg_dit_correction_mean vs run
χ² / ndf 92.57 / 86
p0 612.6 ± 1668
60000
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −538.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

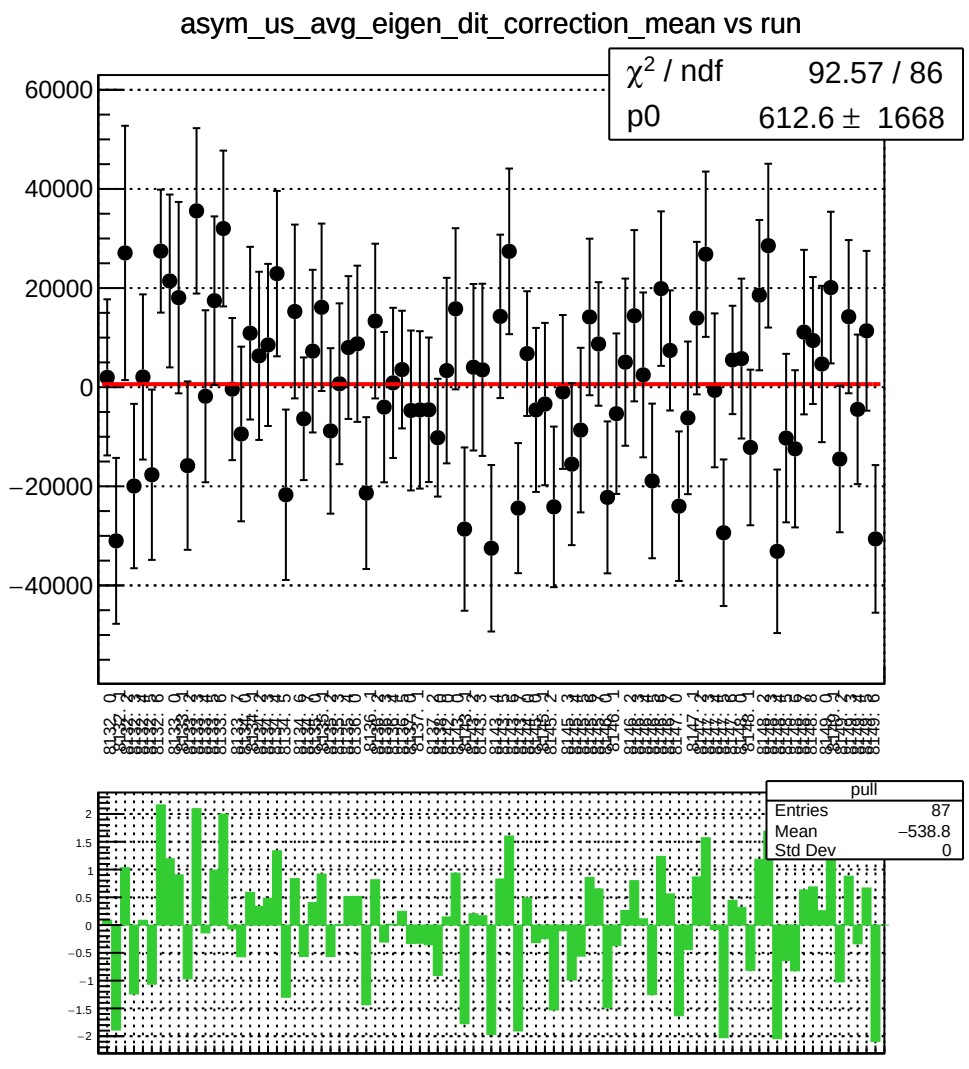

pull1D
Entries 87
Mean 0.004797
Std Dev 1.032
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

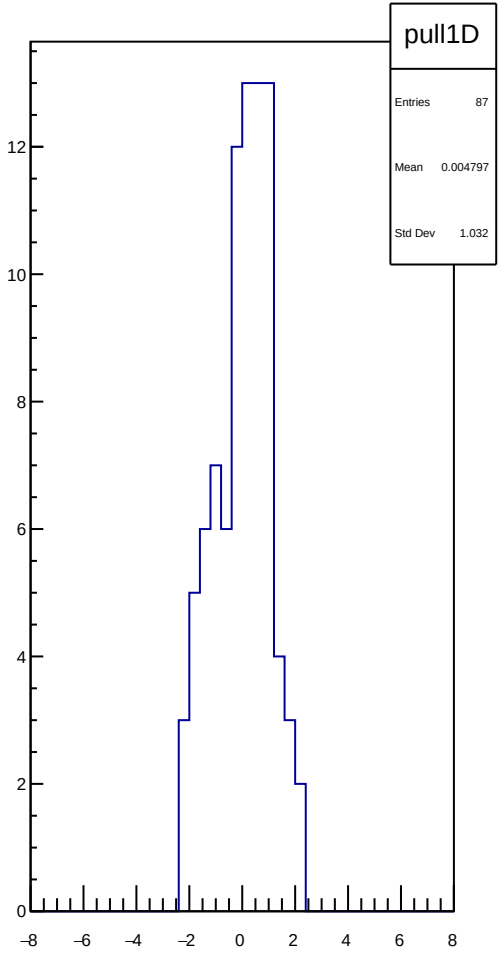
asym_us_avg_dit_correction_rms vs run

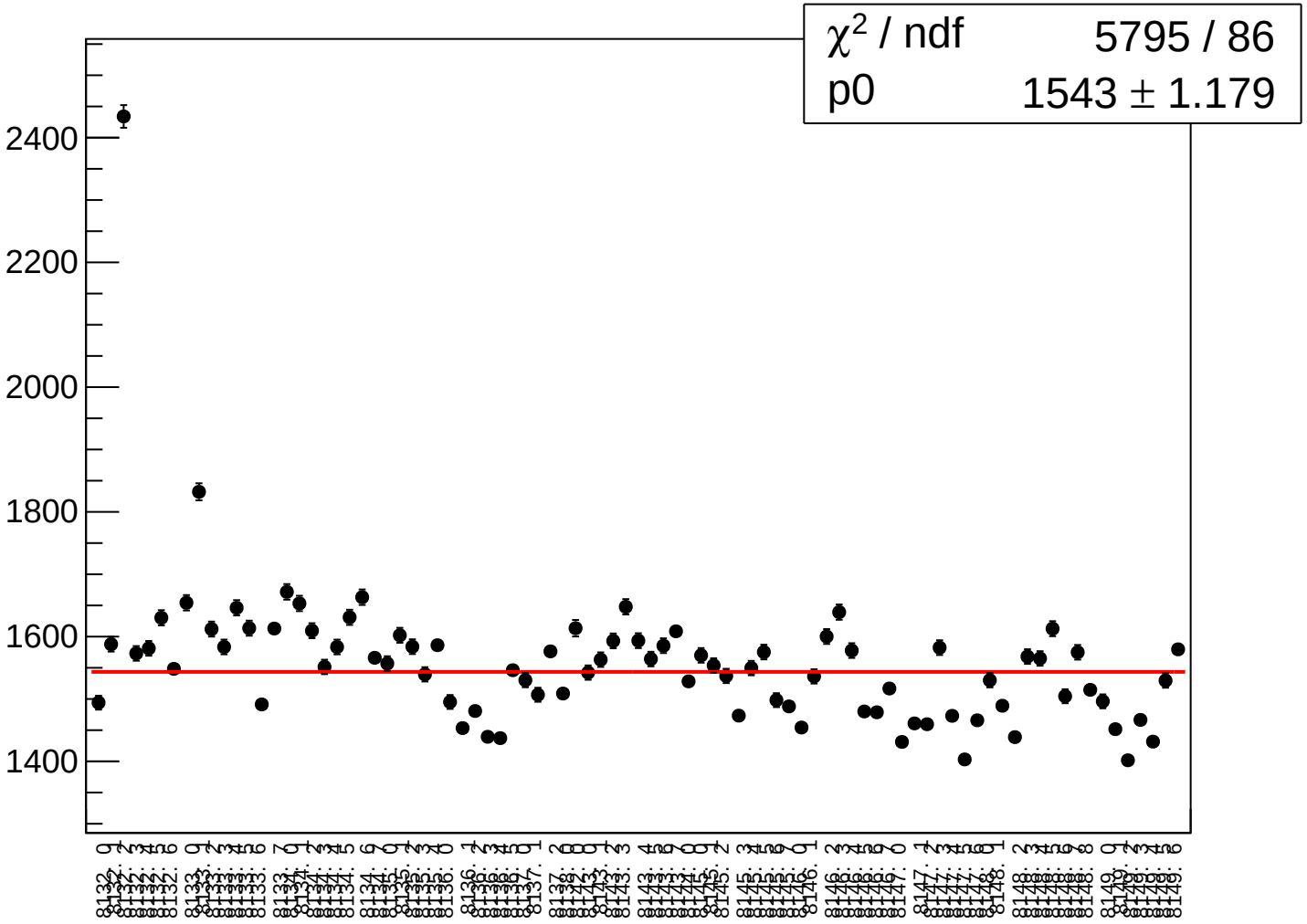


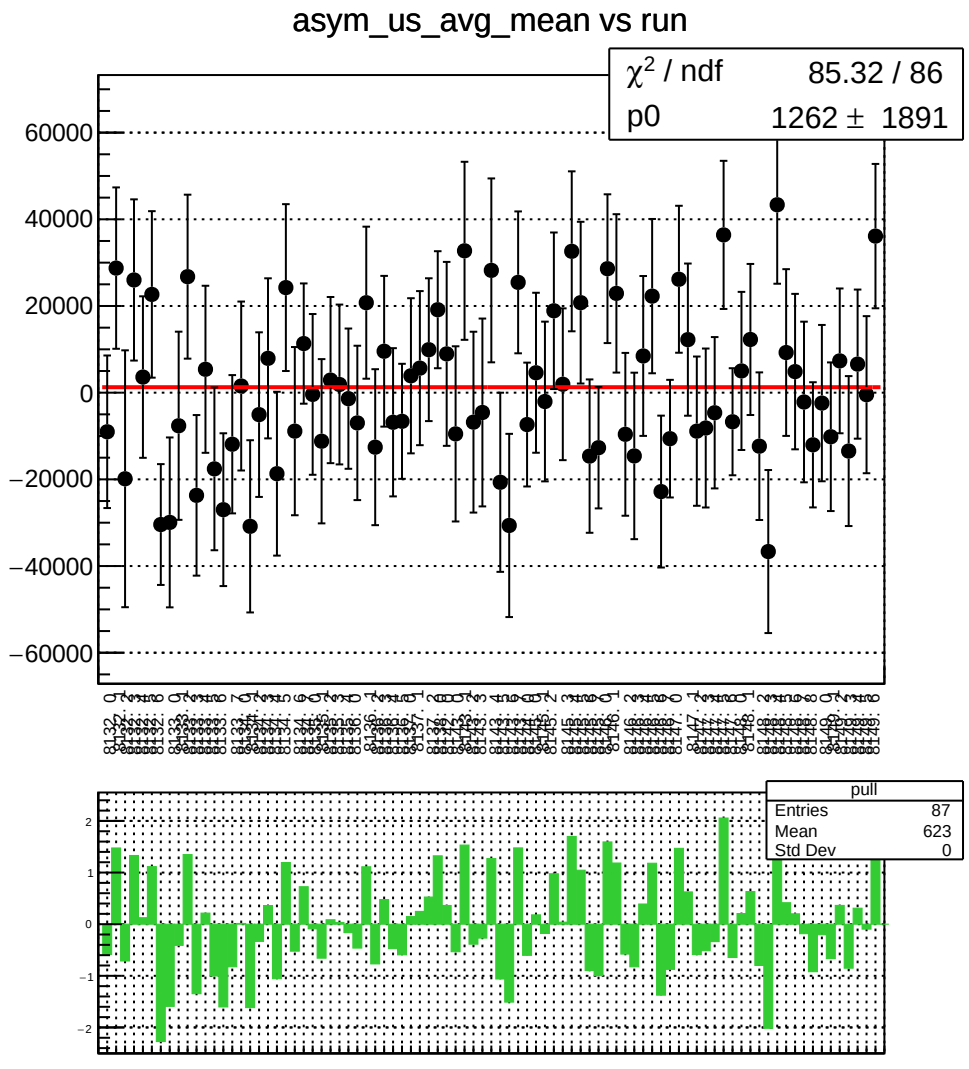

eigen_dit_asym_us_avg_mean vs run
χ² / ndf 65.05 / 86
p0 1994 ± 844.8
pull
Entries 87
Mean 158.3
Std Dev 0
pull1D
Entries 87
Mean 0.01363
Std Dev 0.8646

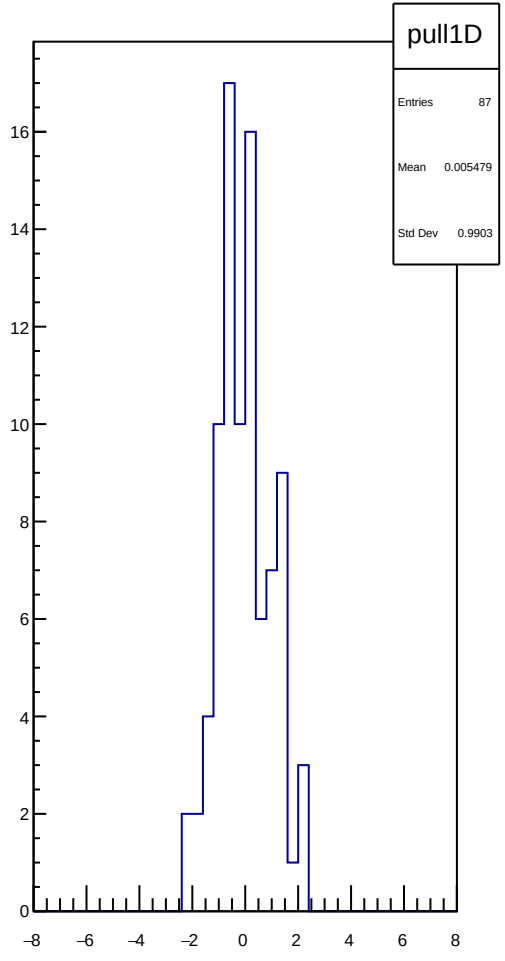

eigen_dit_asym_us_avg_rms vs run
χ² / ndf 1341 / 86
p0 782.9 ± 0.5974
900
880
860
840
820
800
780
760
740

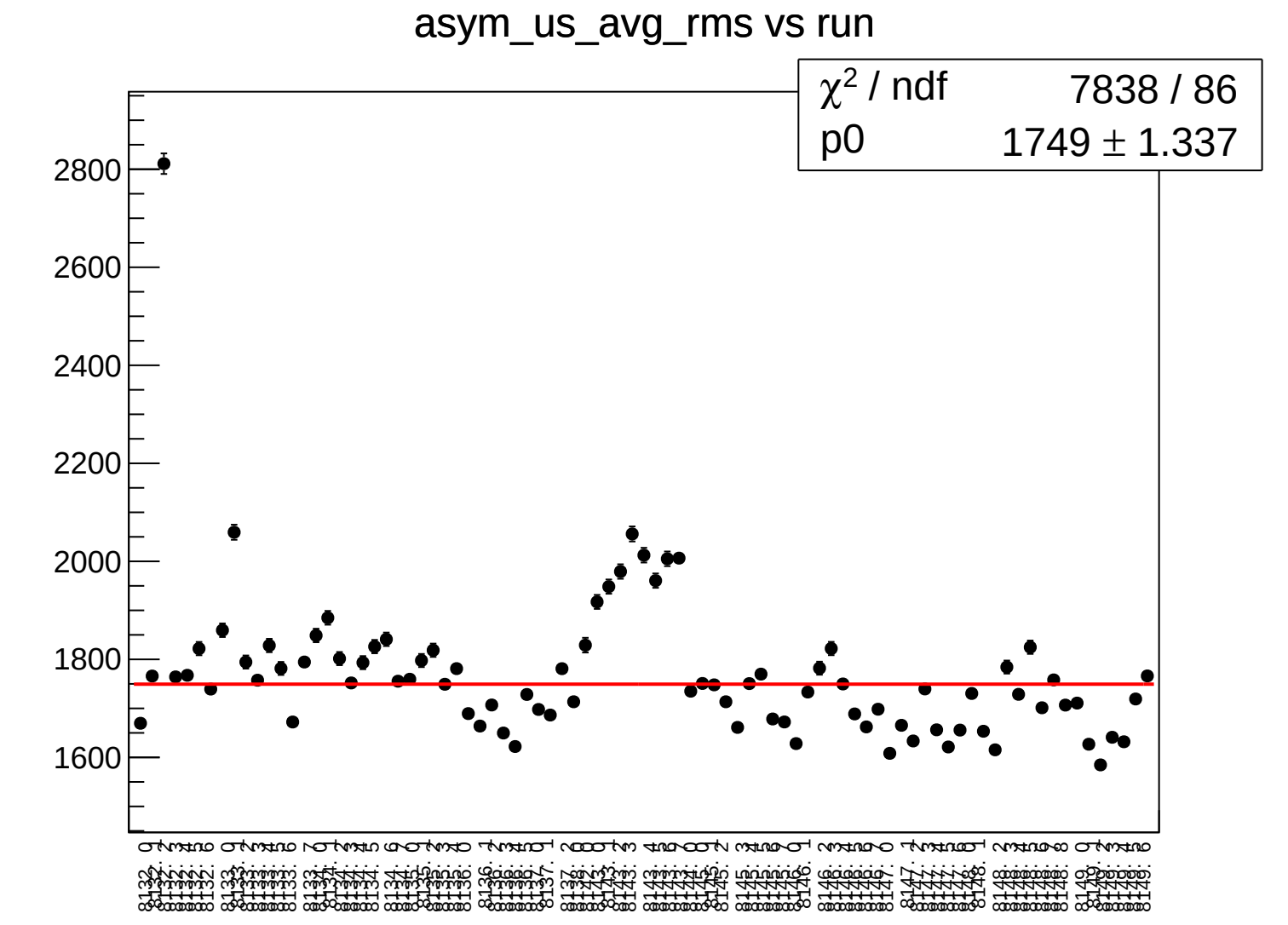

asym_us_avg_eigen_dit_correction_mean vs run
χ² / ndf 92.57 / 86
p0 612.6 ± 1668
60000
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −538.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

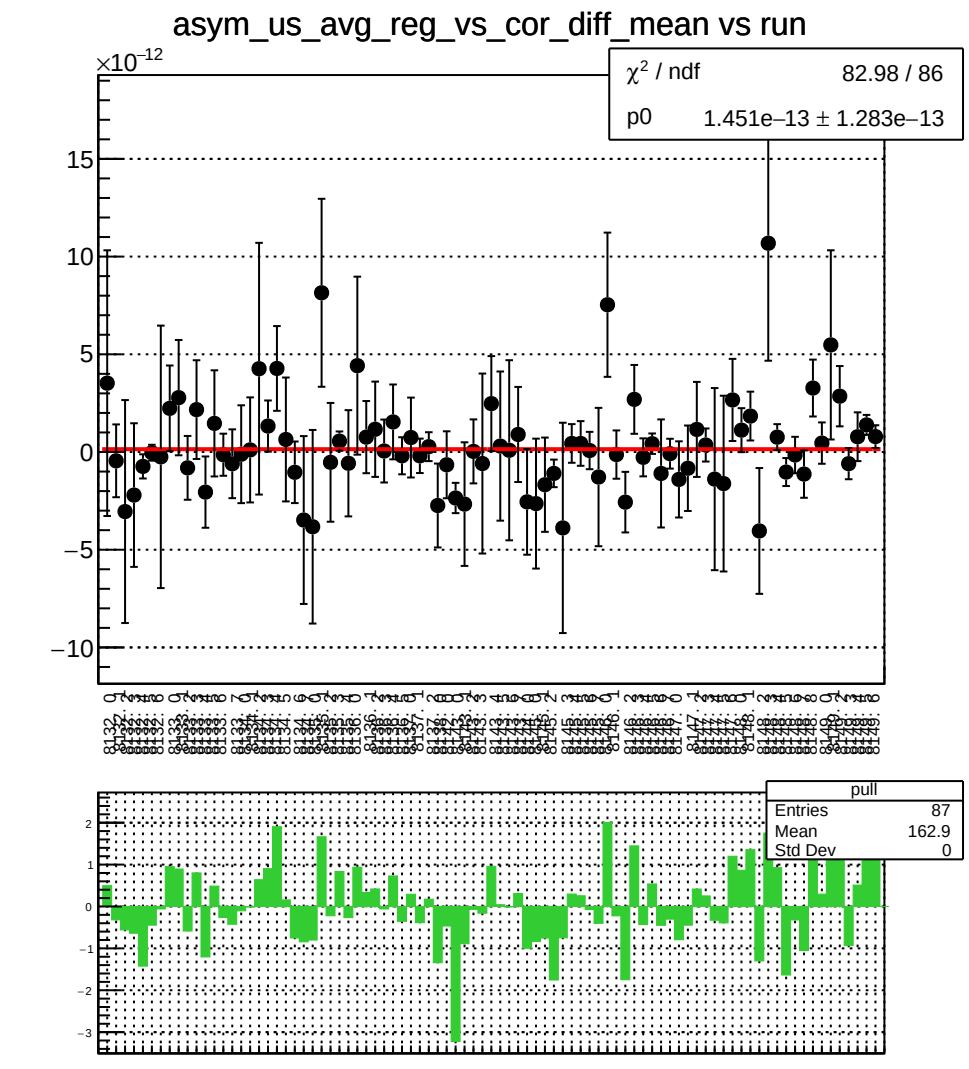

pull1D
Entries 87
Mean 0.004797
Std Dev 1.032
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

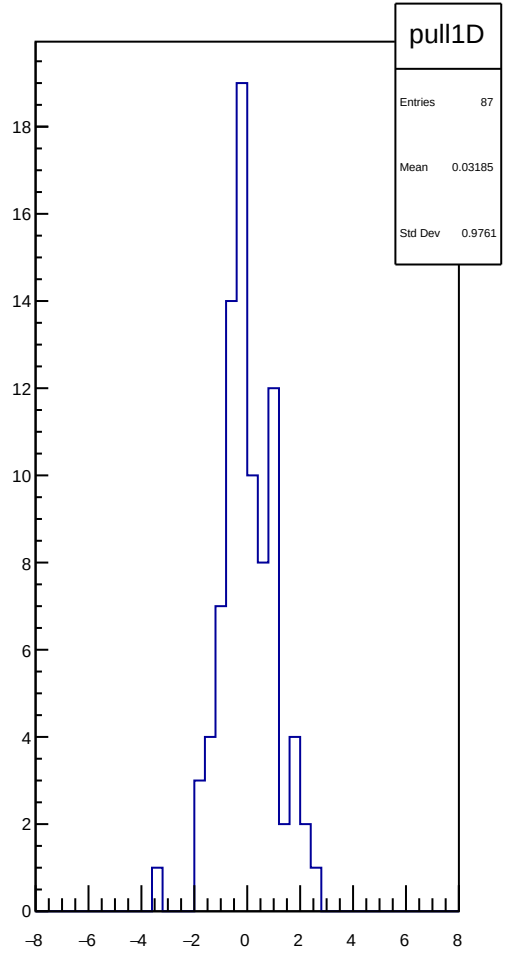

asym_us_avg_eigen_dit_correction_rms vs run
χ² / ndf 5795 / 86
p0 1543 ± 1.179
2400
2200
2000
1800
1600
1400

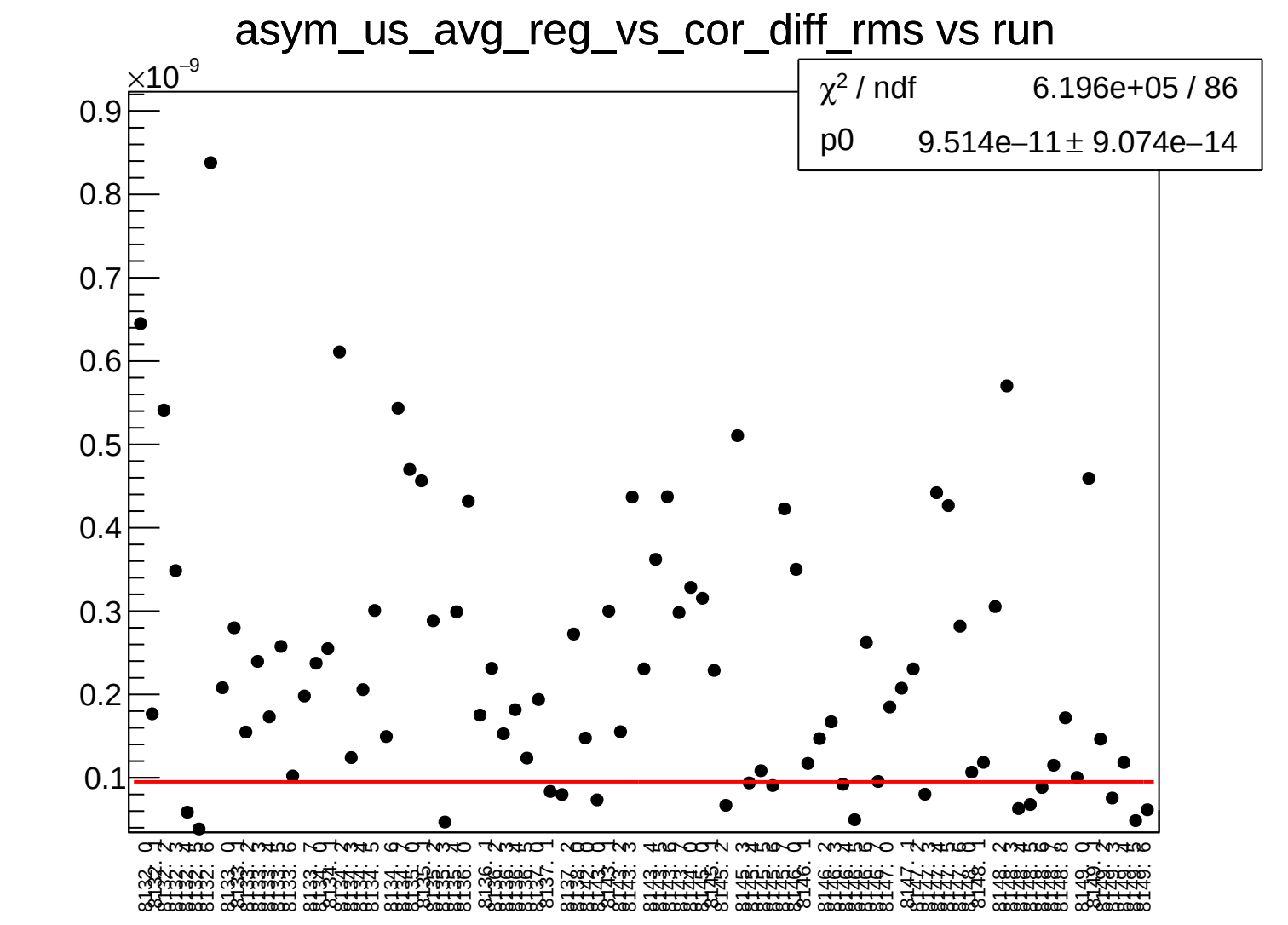

asym_us_avg_mean vs run
χ² / ndf 85.32 / 86
p0 1262 ± 1891
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 623
Std Dev 0
2
1
0
−1
−2

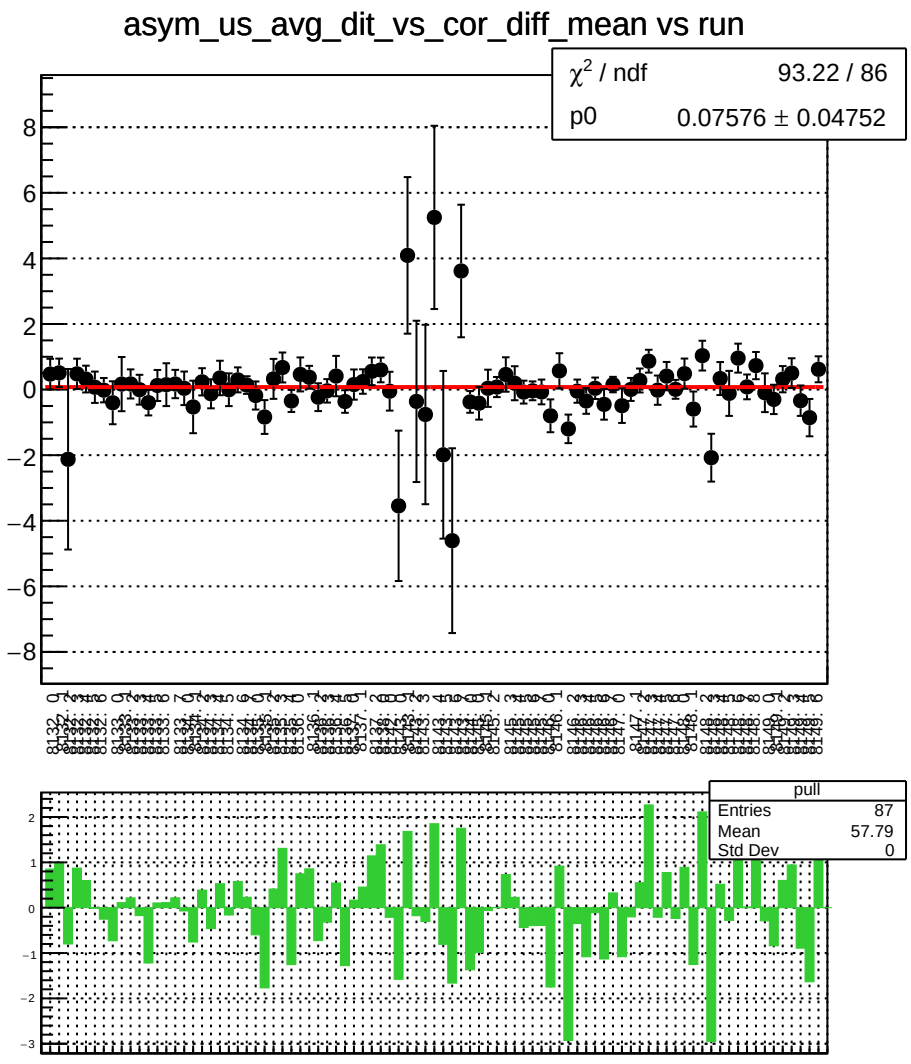

pull1D
Entries 87
Mean 0.005479
Std Dev 0.9903
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

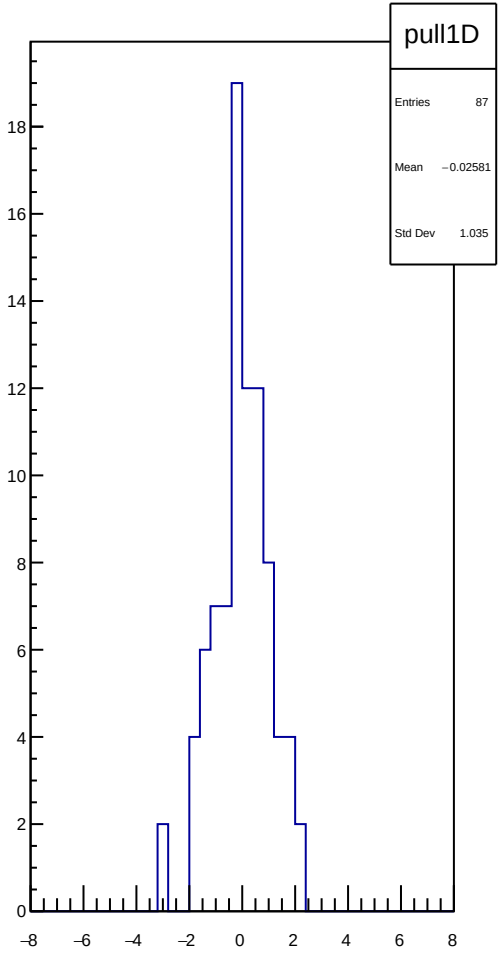

asym_us_avg_rms vs run
χ^2 / ndf 7838 / 86
p0 1749 ± 1.337
2800
2600
2400
2200
2000
1800
1600

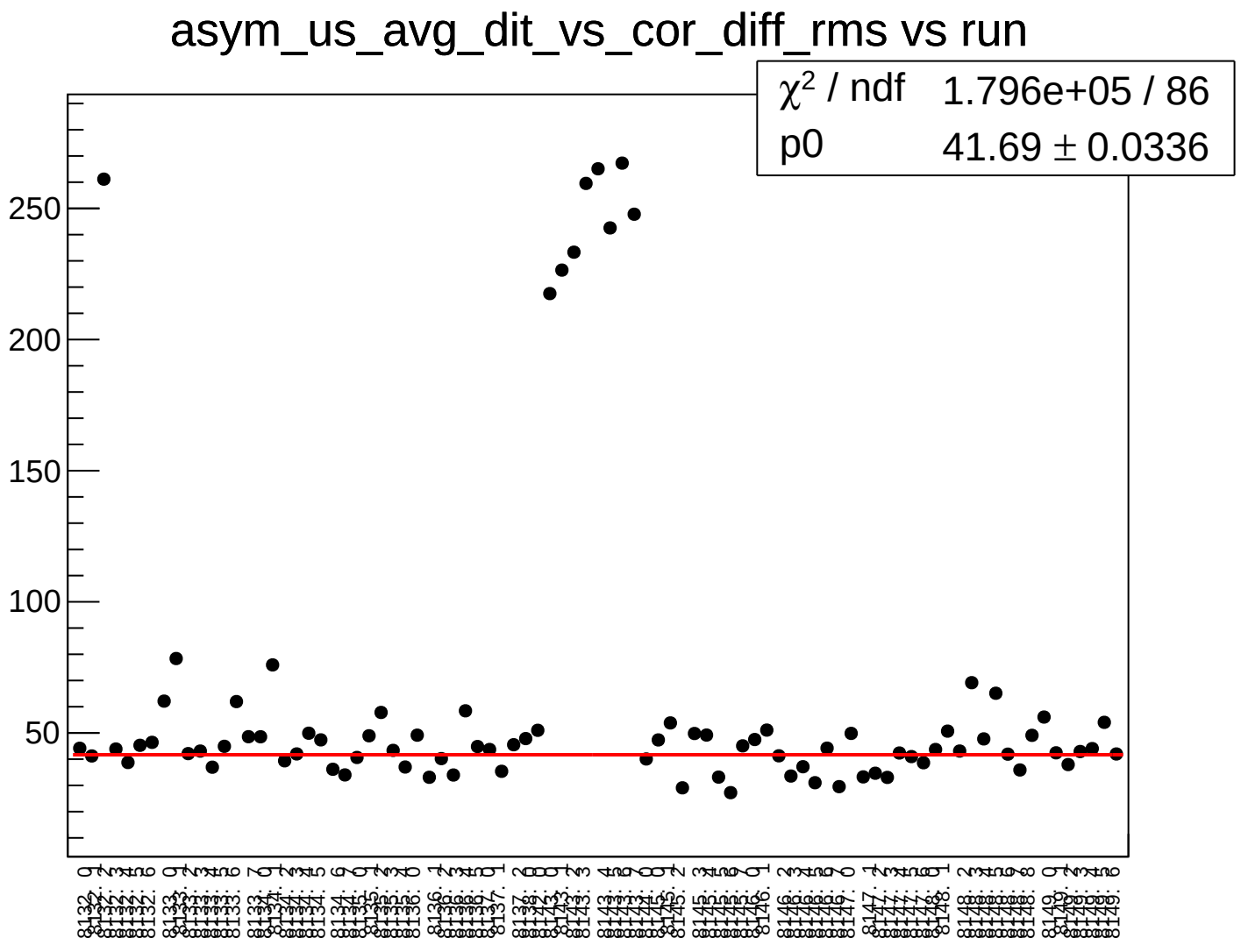

asym_us_avg_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.98 / 86
p0 1.451e−13 ± 1.283e−13
15
10
5
0
−5
−10
pull
Entries 87
Mean 162.9
Std Dev 0
2
1
0
−1
−2
−3

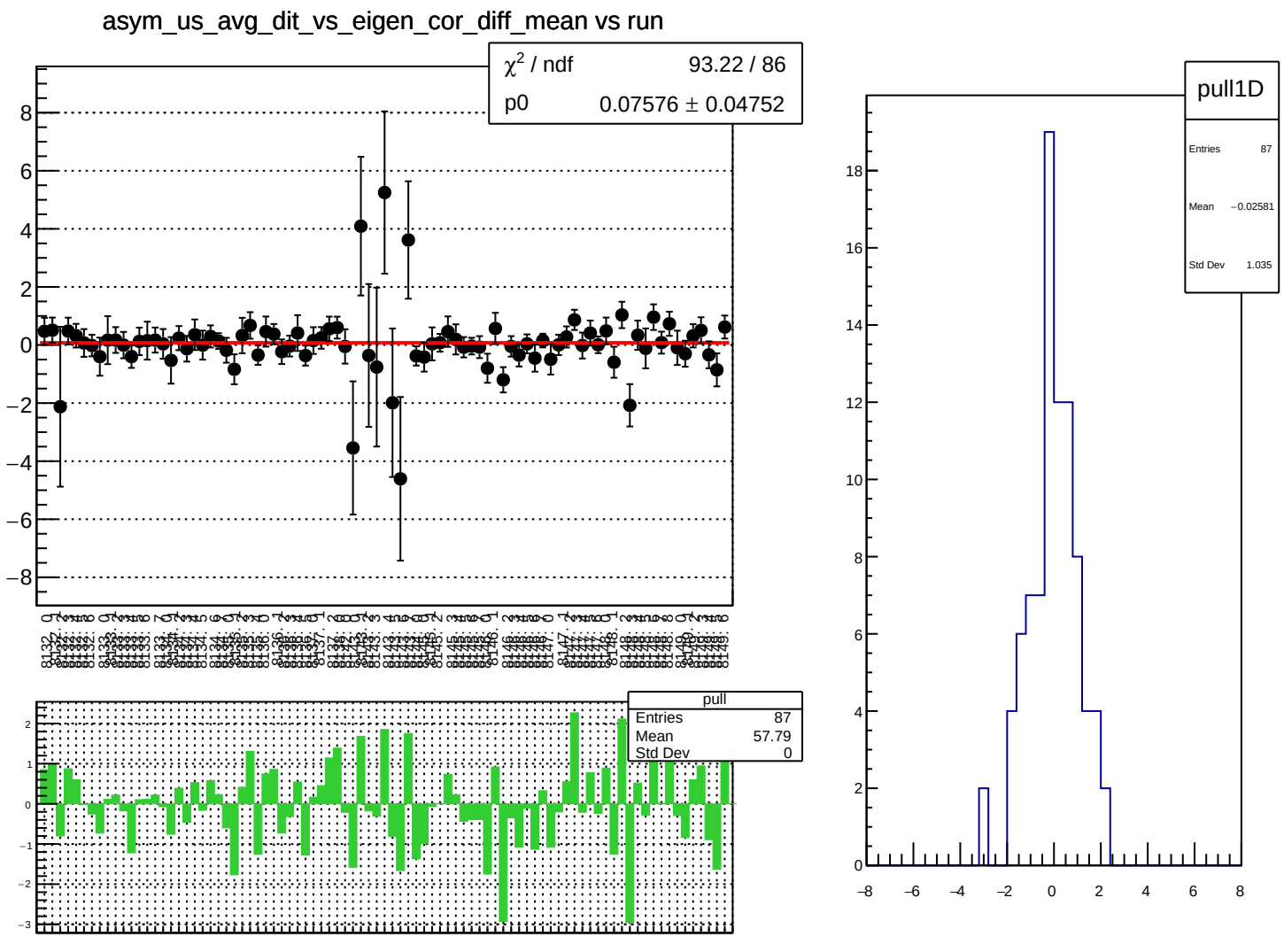

pull1D
Entries 87
Mean 0.03185
Std Dev 0.9761
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

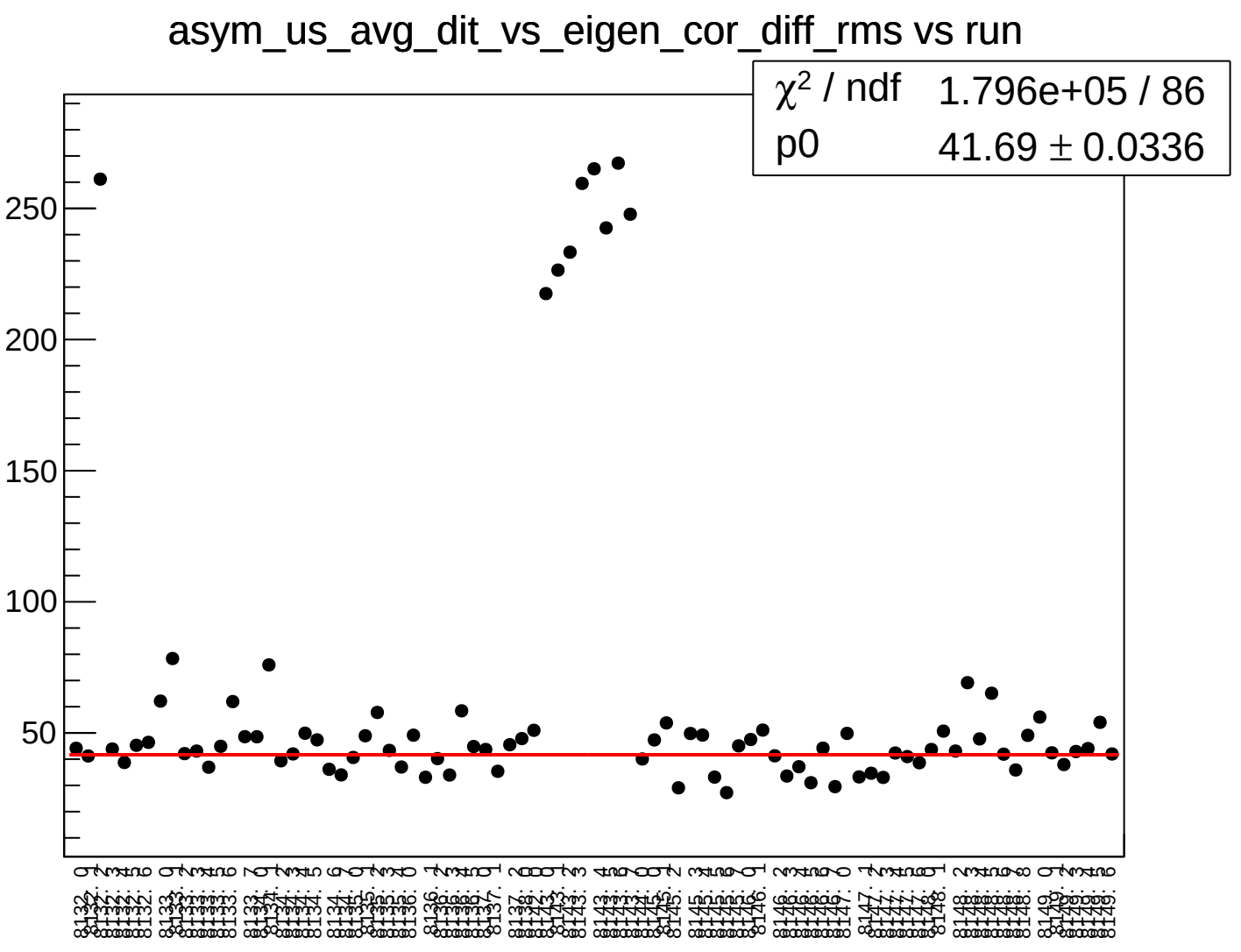

asym_us_avg_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.196e+05 / 86
p0 9.514e−11 ± 9.074e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

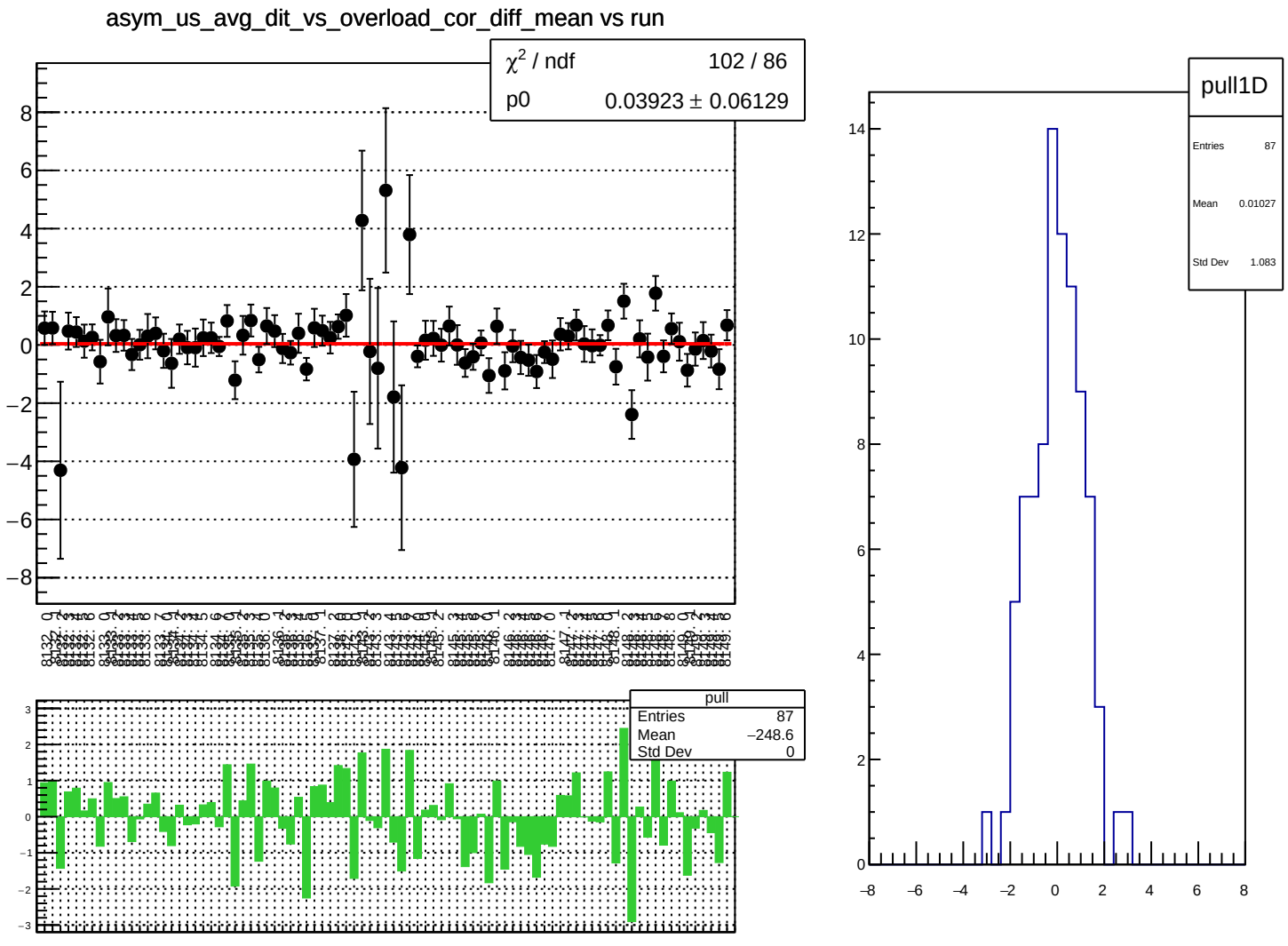

asym_us_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 93.22 / 86
p0 0.07576 ± 0.04752
pull
Entries 87
Mean 57.79
Std Dev 0

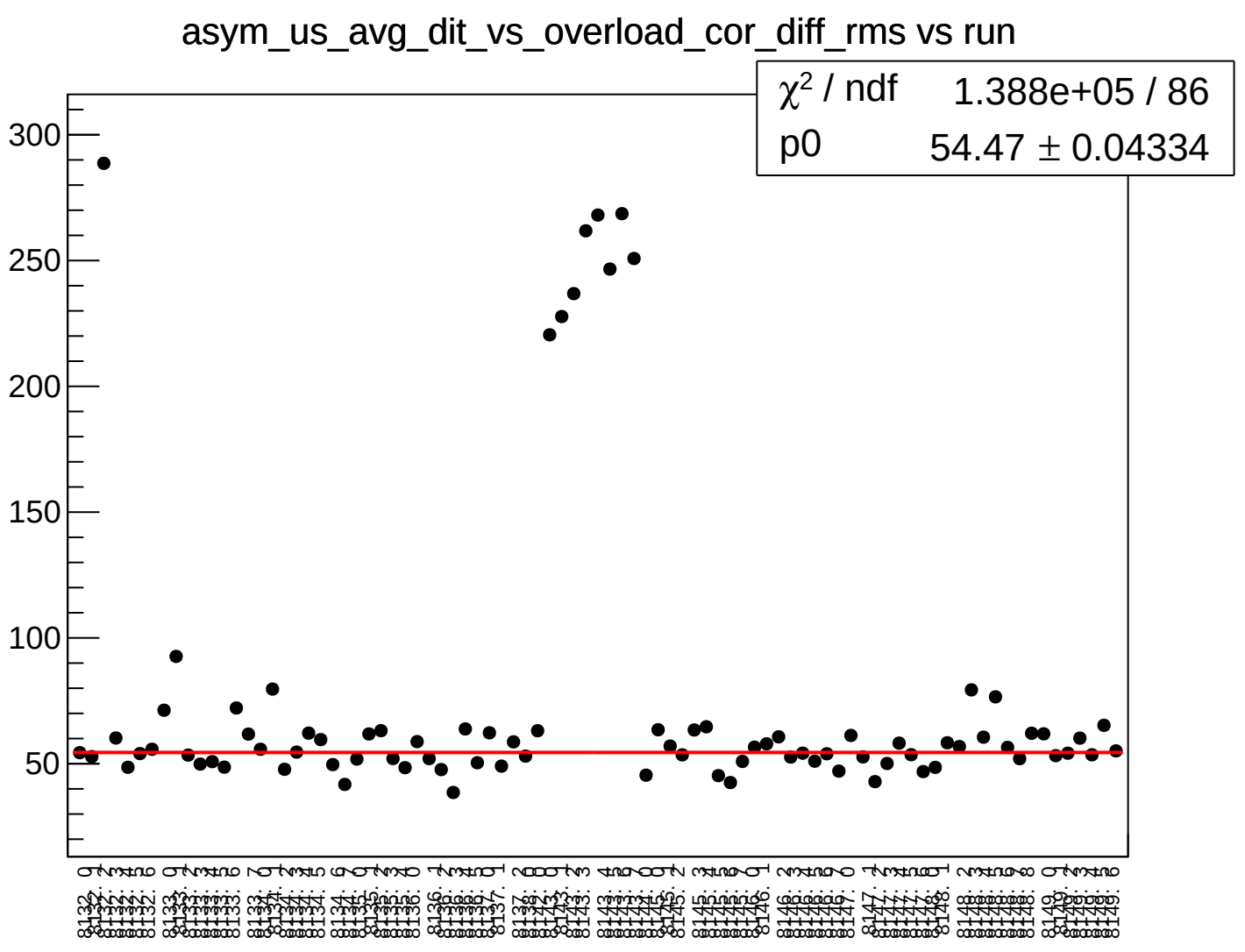

pull1D
Entries 87
Mean −0.02581
Std Dev 1.035

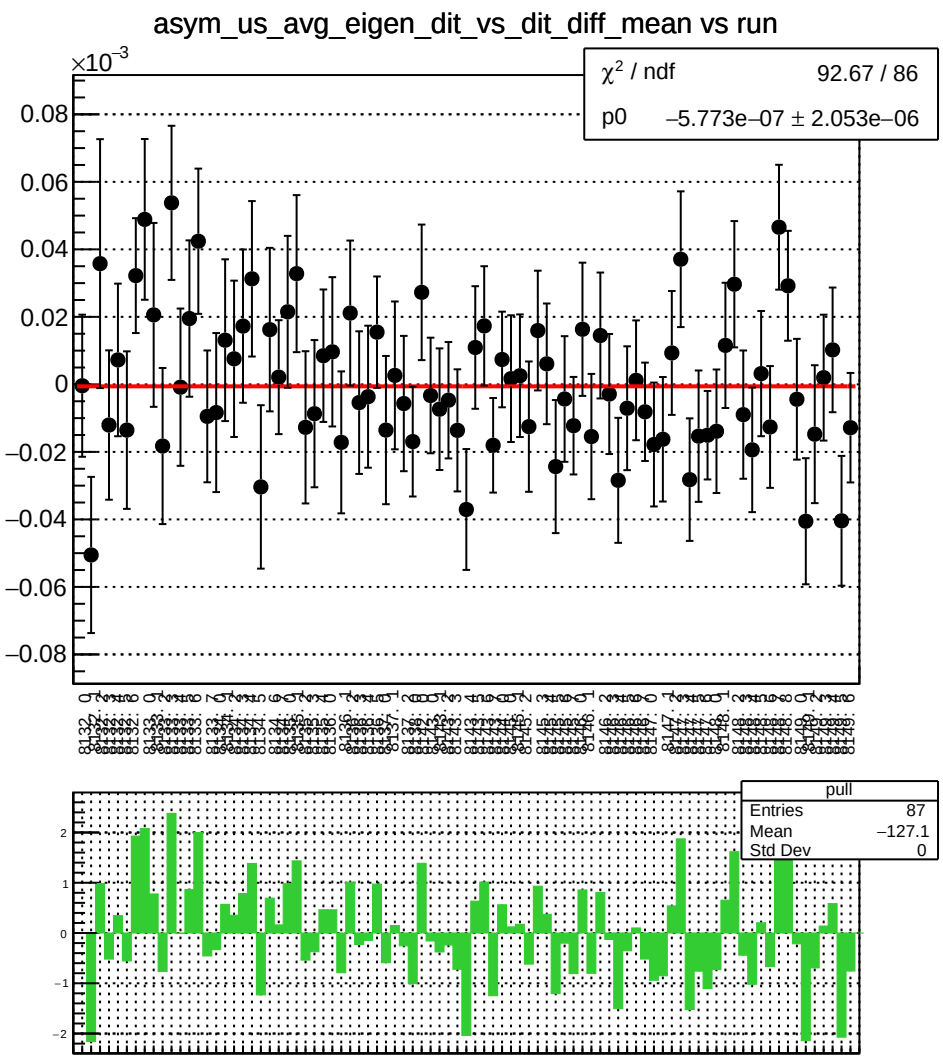

asym_us_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.796e+05 / 86
p0 41.69 ± 0.0336
250
200
150
100
50

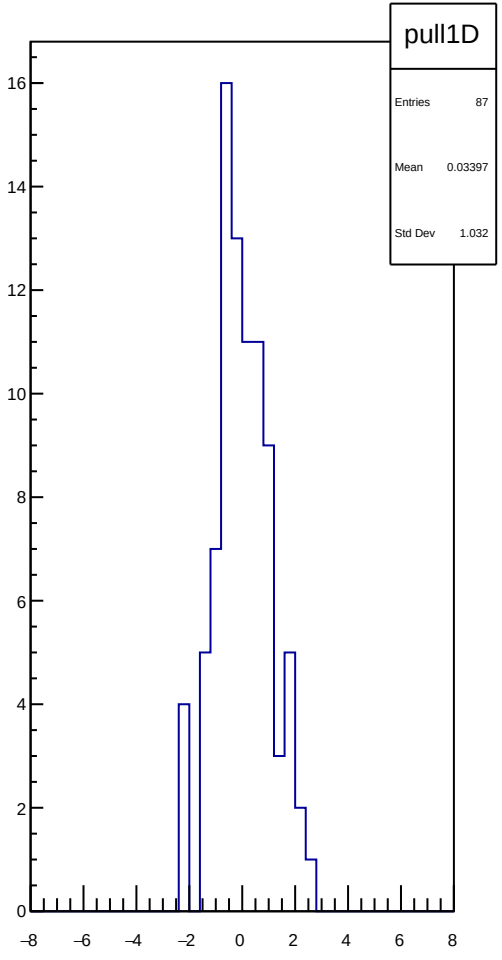

asym_us_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.22 / 86
p0 0.07576 ± 0.04752
pull
Entries 87
Mean 57.79
Std Dev 0
pull1D
Entries 87
Mean −0.02581
Std Dev 1.035

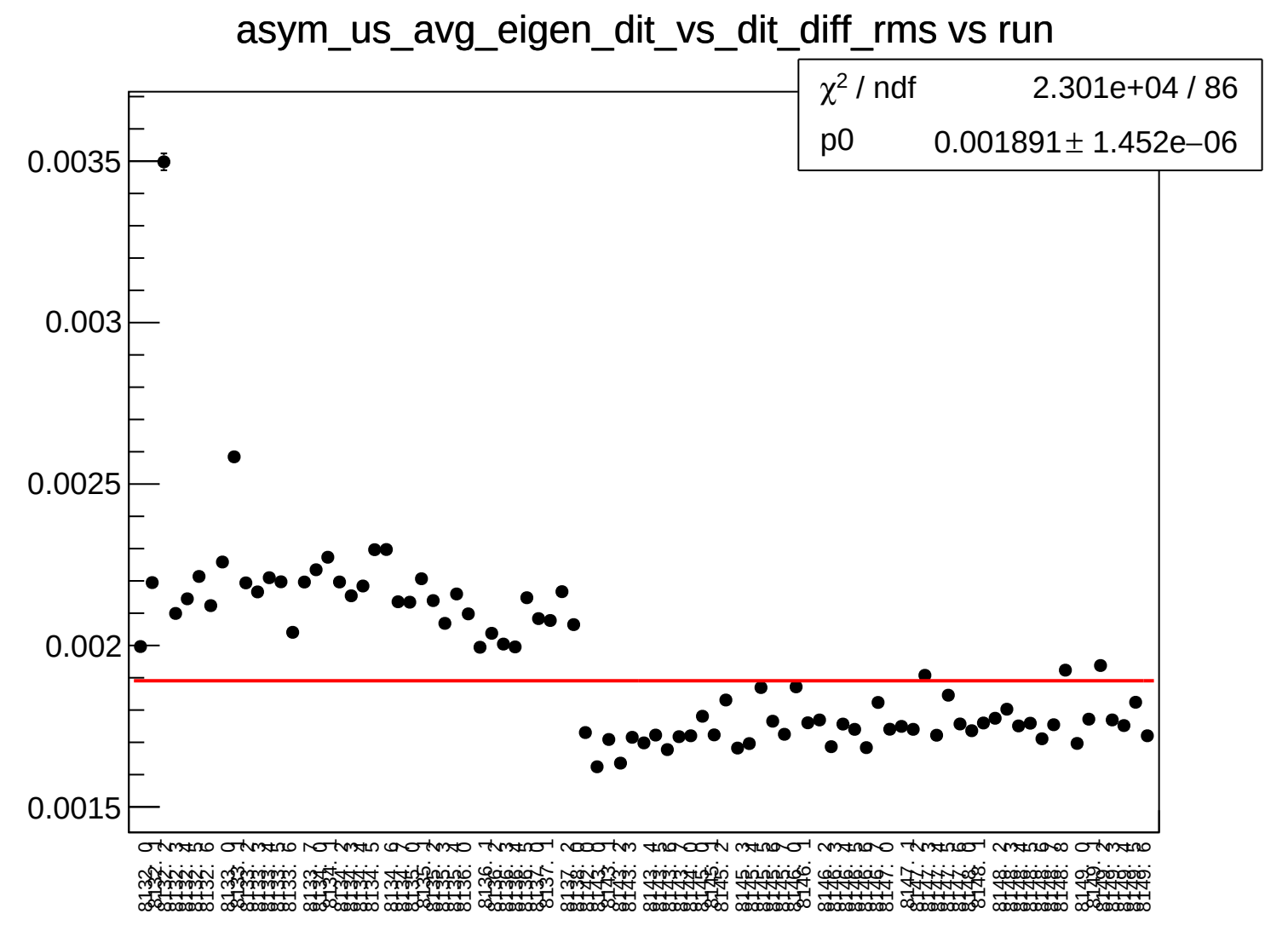

asym_us_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.796e+05 / 86
p0 41.69 ± 0.0336
250
200
150
100
50

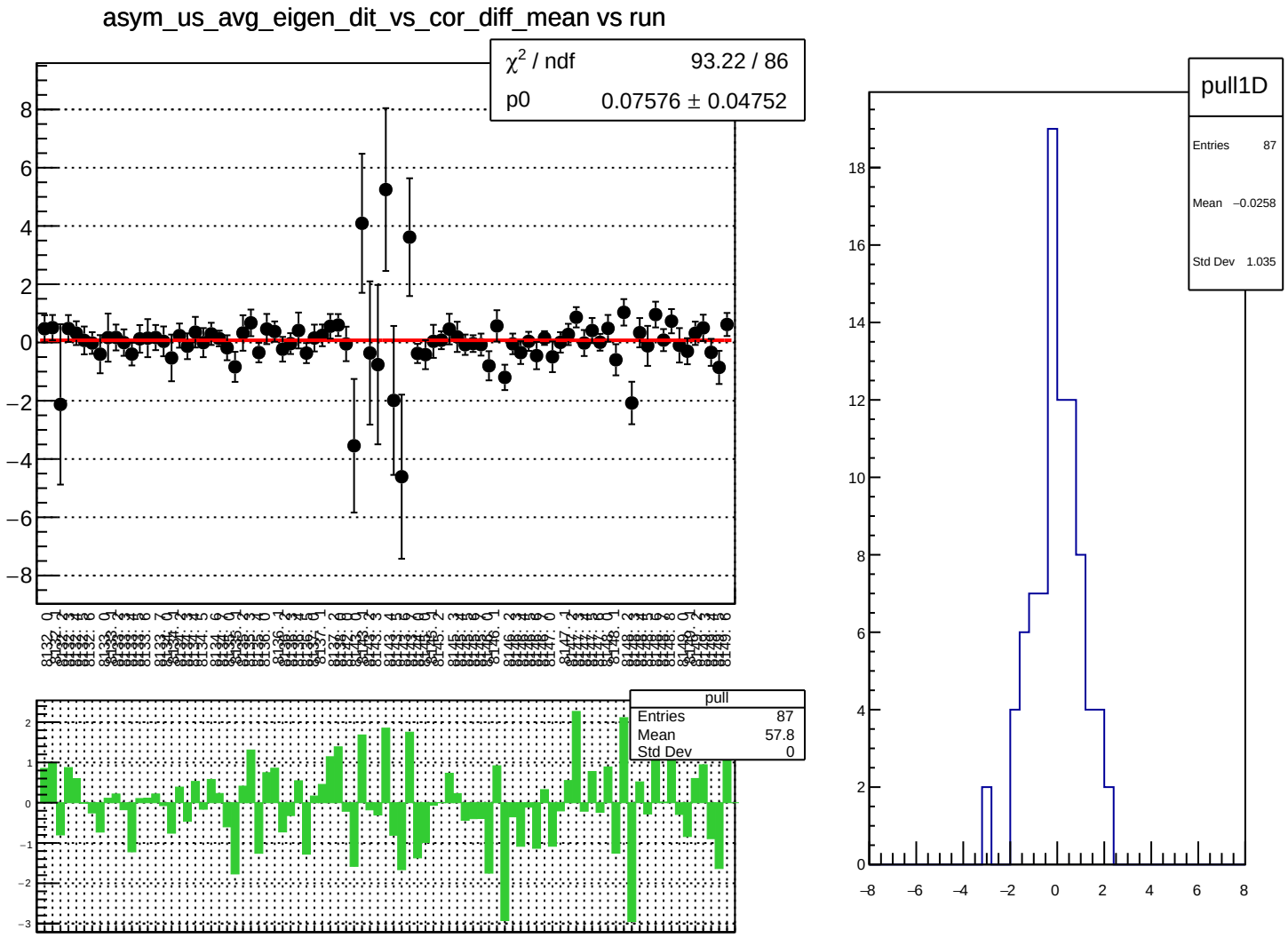

asym_us_avg_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 102 / 86
p0 0.03923 ± 0.06129
pull
Entries 87
Mean −248.6
Std Dev 0
pull1D
Entries 87
Mean 0.01027
Std Dev 1.083

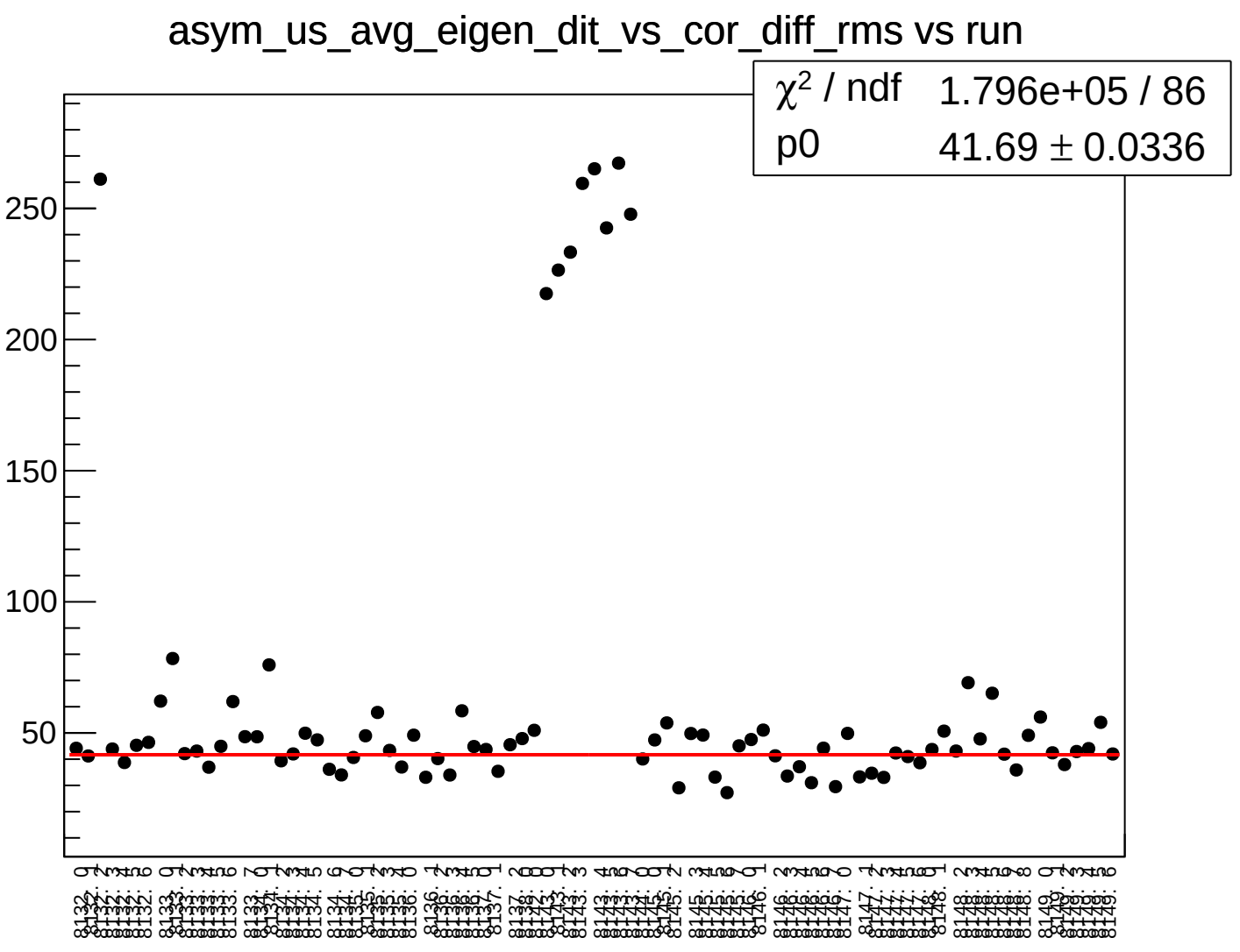

asym_us_avg_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.388e+05 / 86
p0 54.47 ± 0.04334
300
250
200
150
100
50

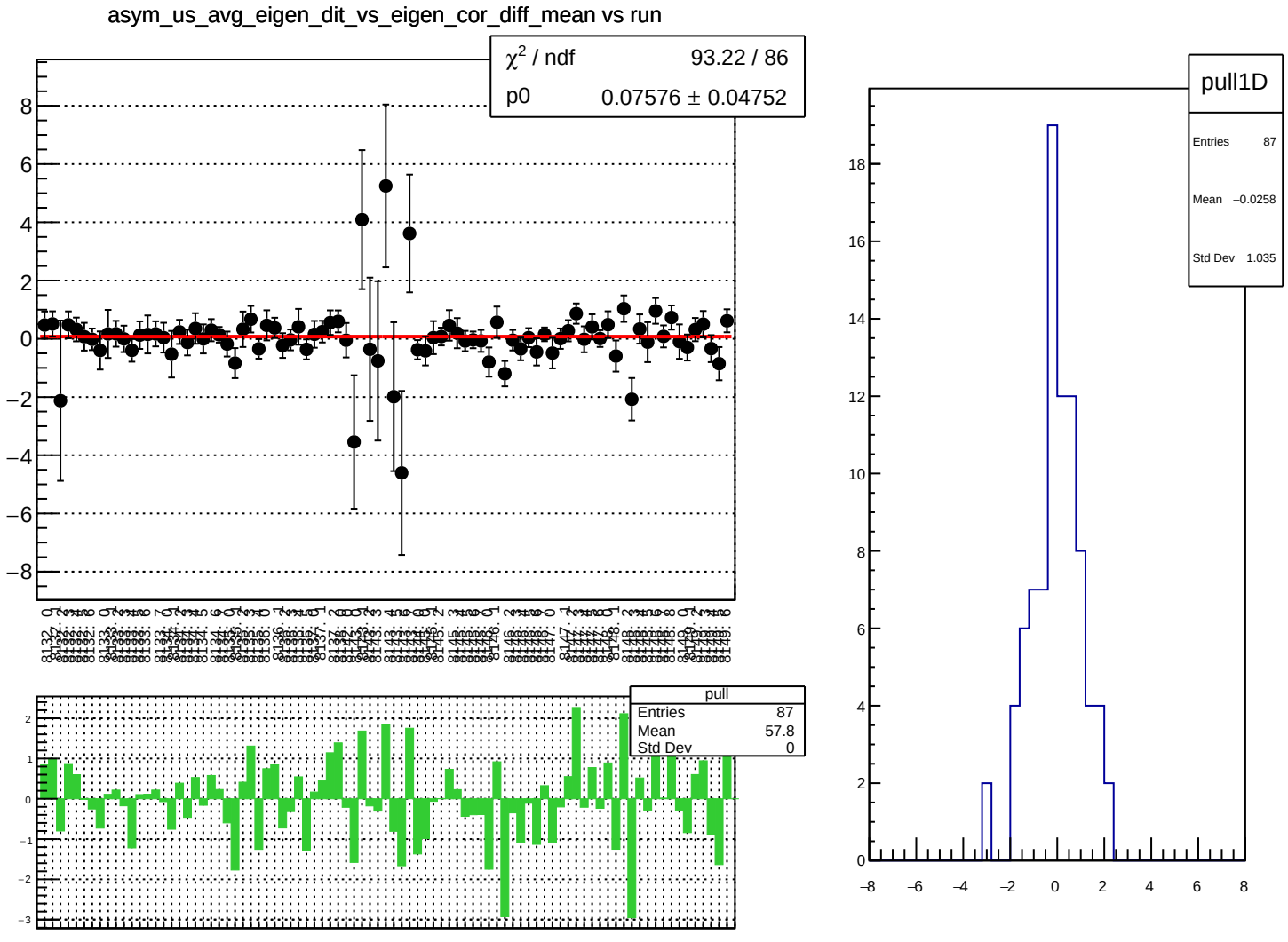

asym_us_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.67 / 86
p0 −5.773e−07 ± 2.053e−06
pull
Entries 87
Mean −127.1
Std Dev 0

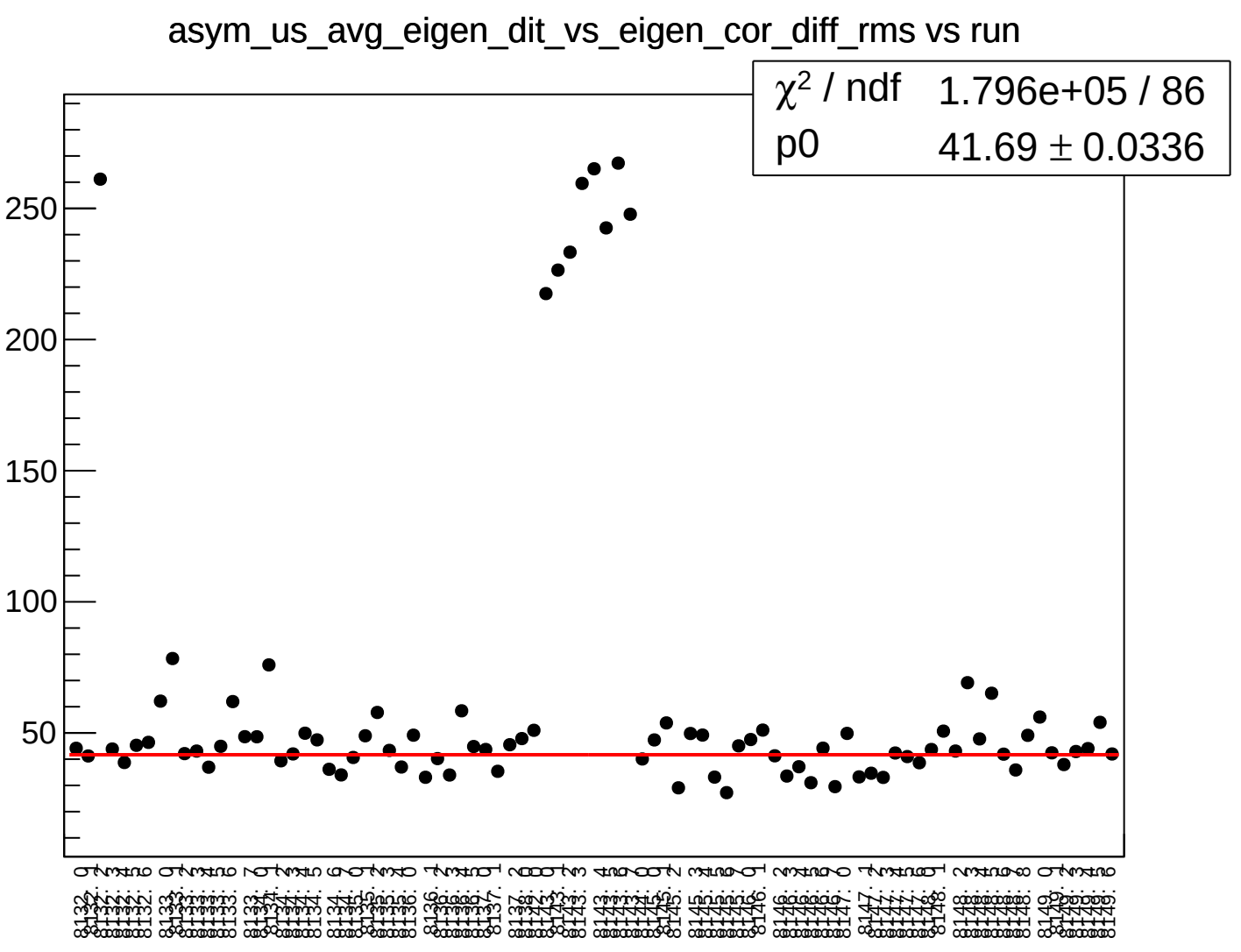

pull1D
Entries 87
Mean 0.03397
Std Dev 1.032

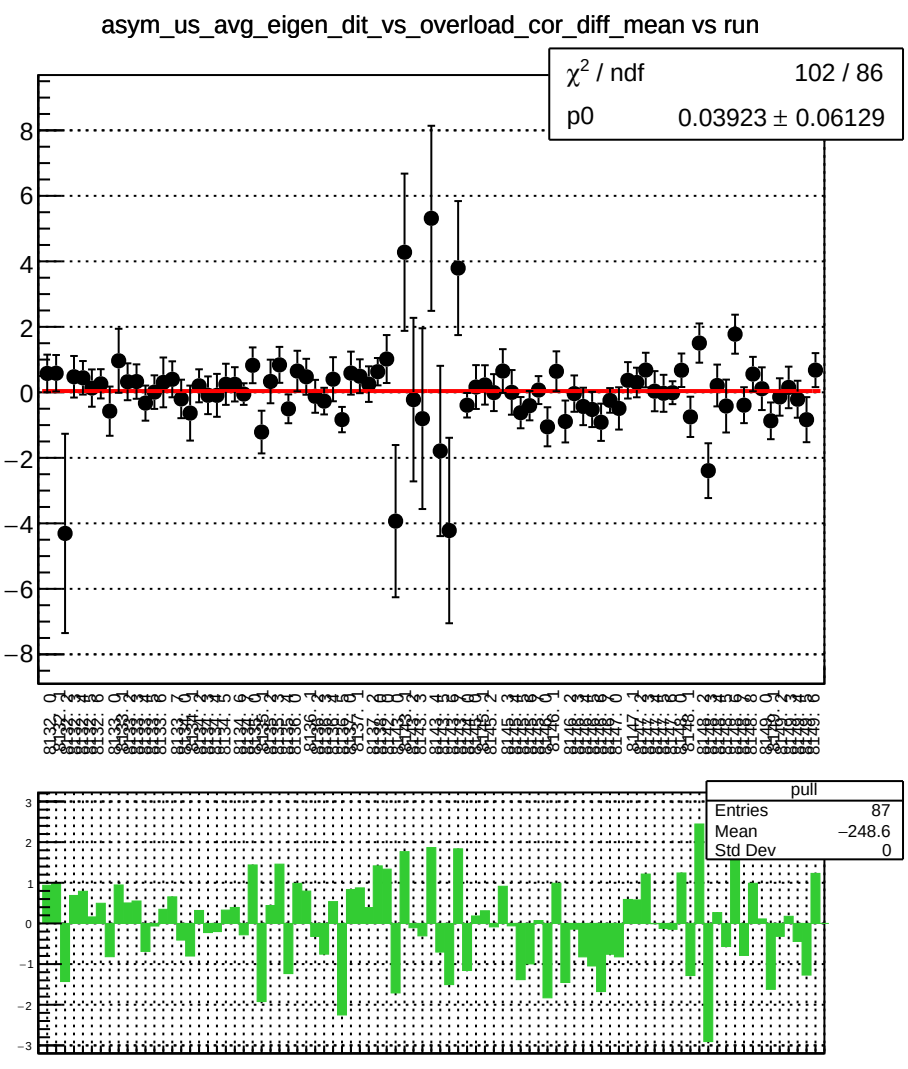

asym_us_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.301e+04 / 86
p0 0.001891 ± 1.452e−06
0.0035
0.003
0.0025
0.002
0.0015

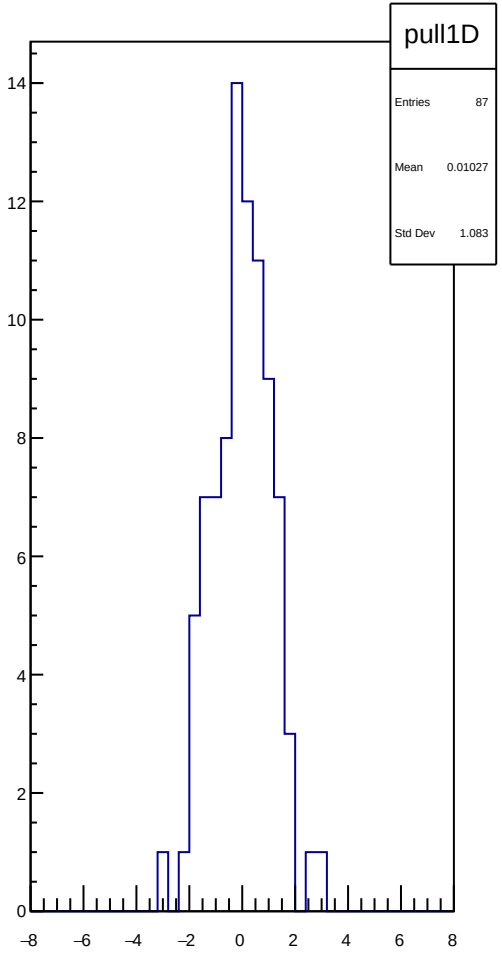

asym_us_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.22 / 86
p0 0.07576 ± 0.04752
pull
Entries 87
Mean 57.8
Std Dev 0
pull1D
Entries 87
Mean −0.0258
Std Dev 1.035

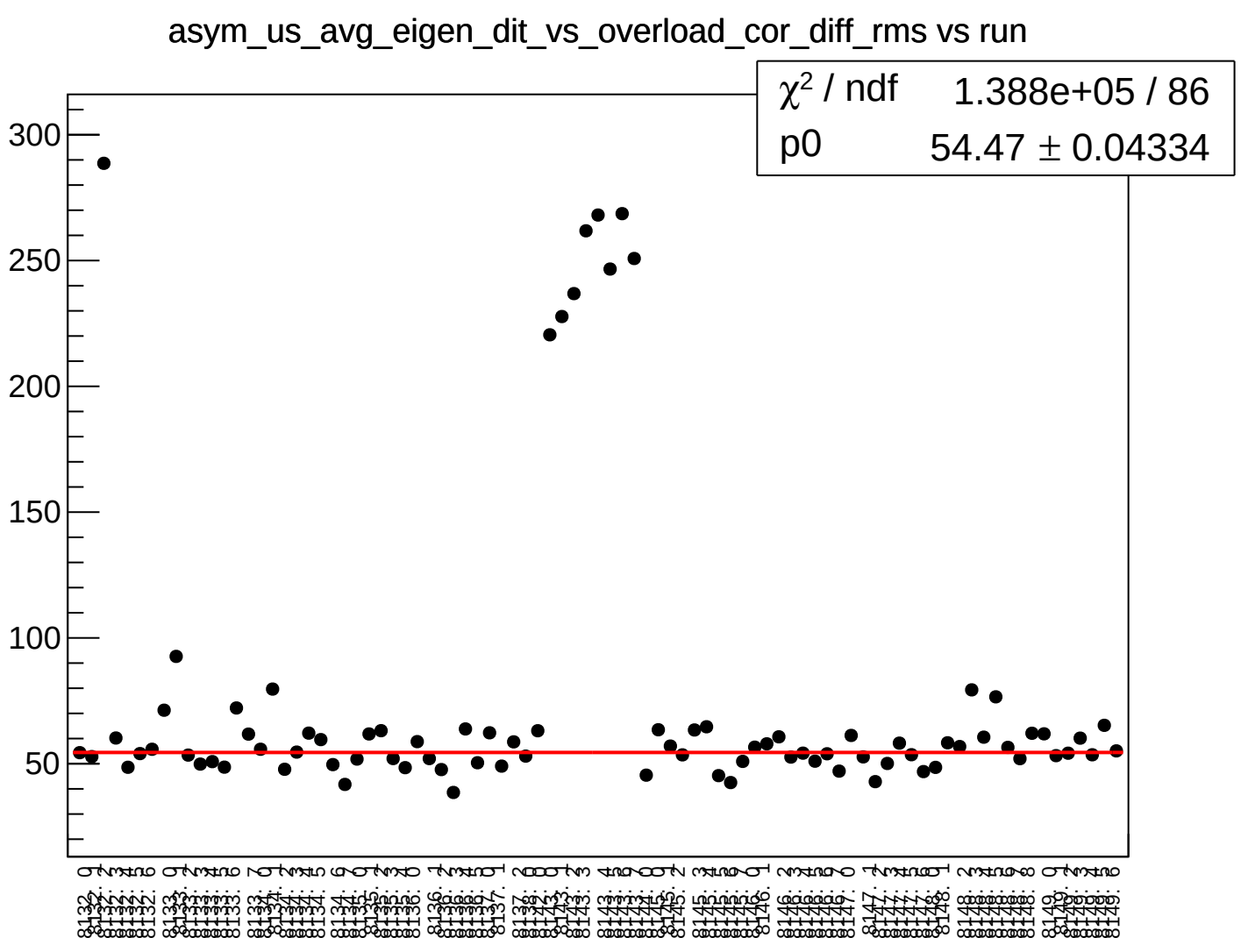

asym_us_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.796e+05 / 86
p0 41.69 ± 0.0336
250
200
150
100
50

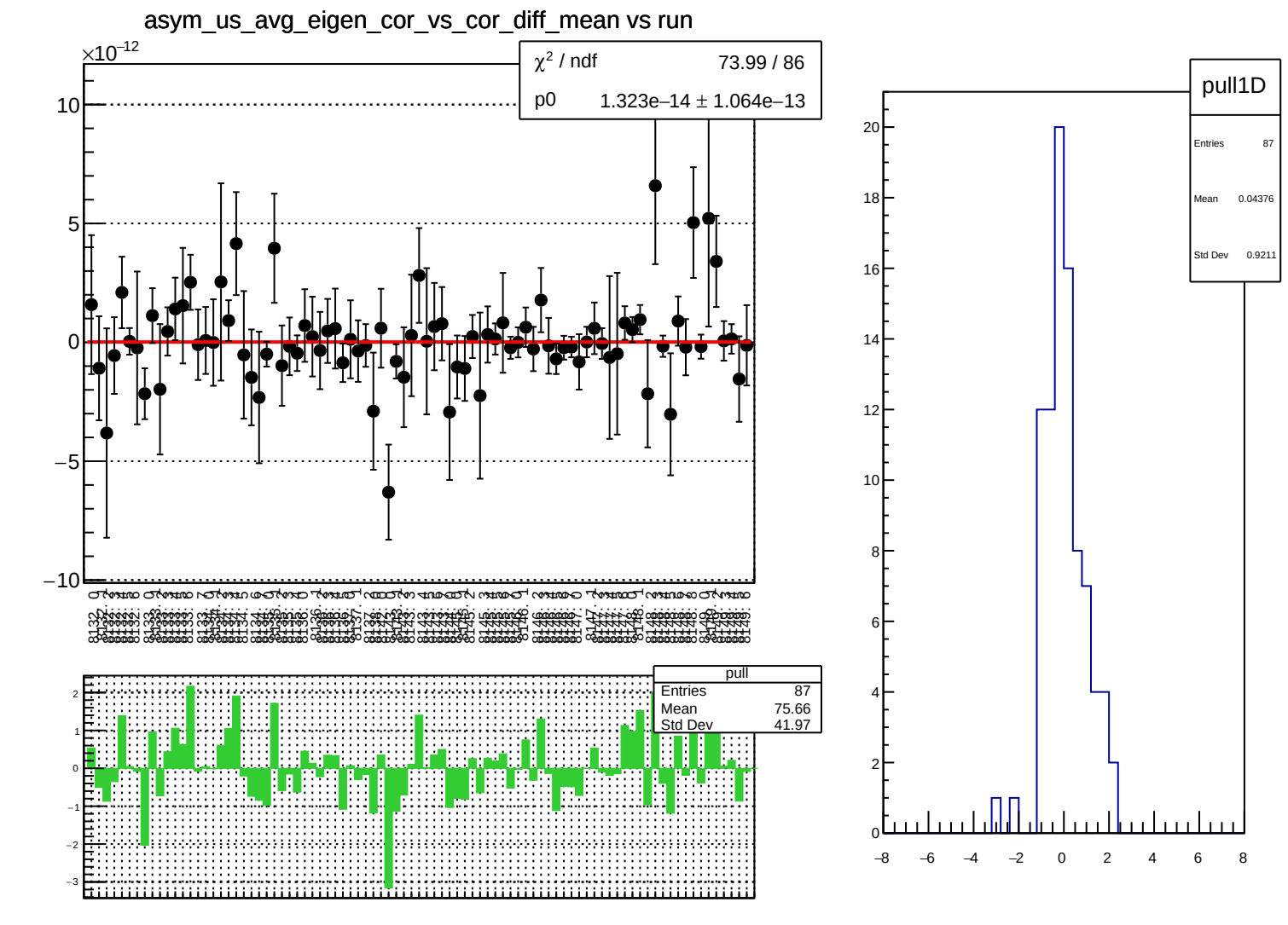

asym_us_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.22 / 86
p0 0.07576 ± 0.04752
pull
Entries 87
Mean 57.8
Std Dev 0
pull1D
Entries 87
Mean −0.0258
Std Dev 1.035

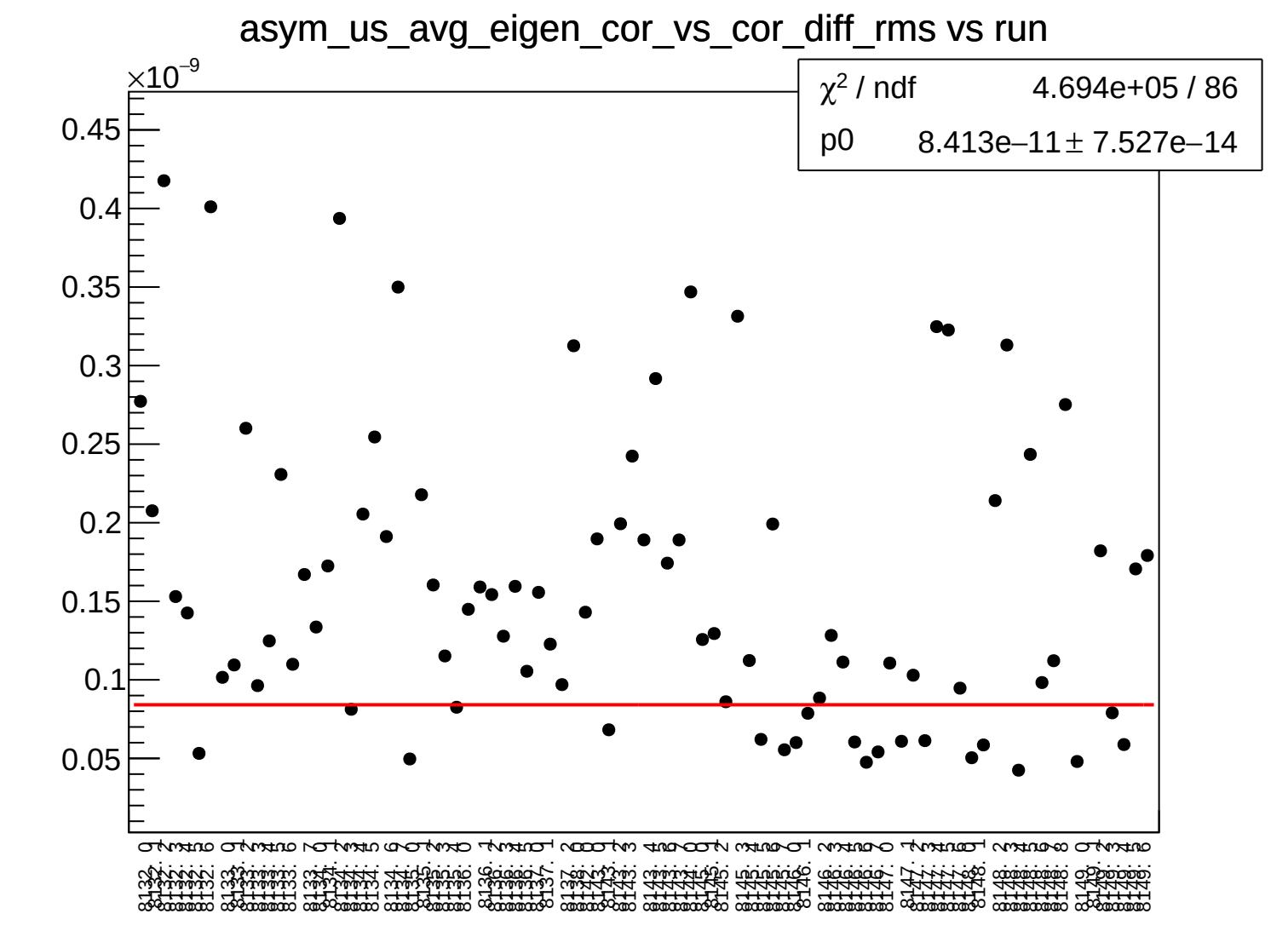

asym_us_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.796e+05 / 86
p0 41.69 ± 0.0336
250
200
150
100
50

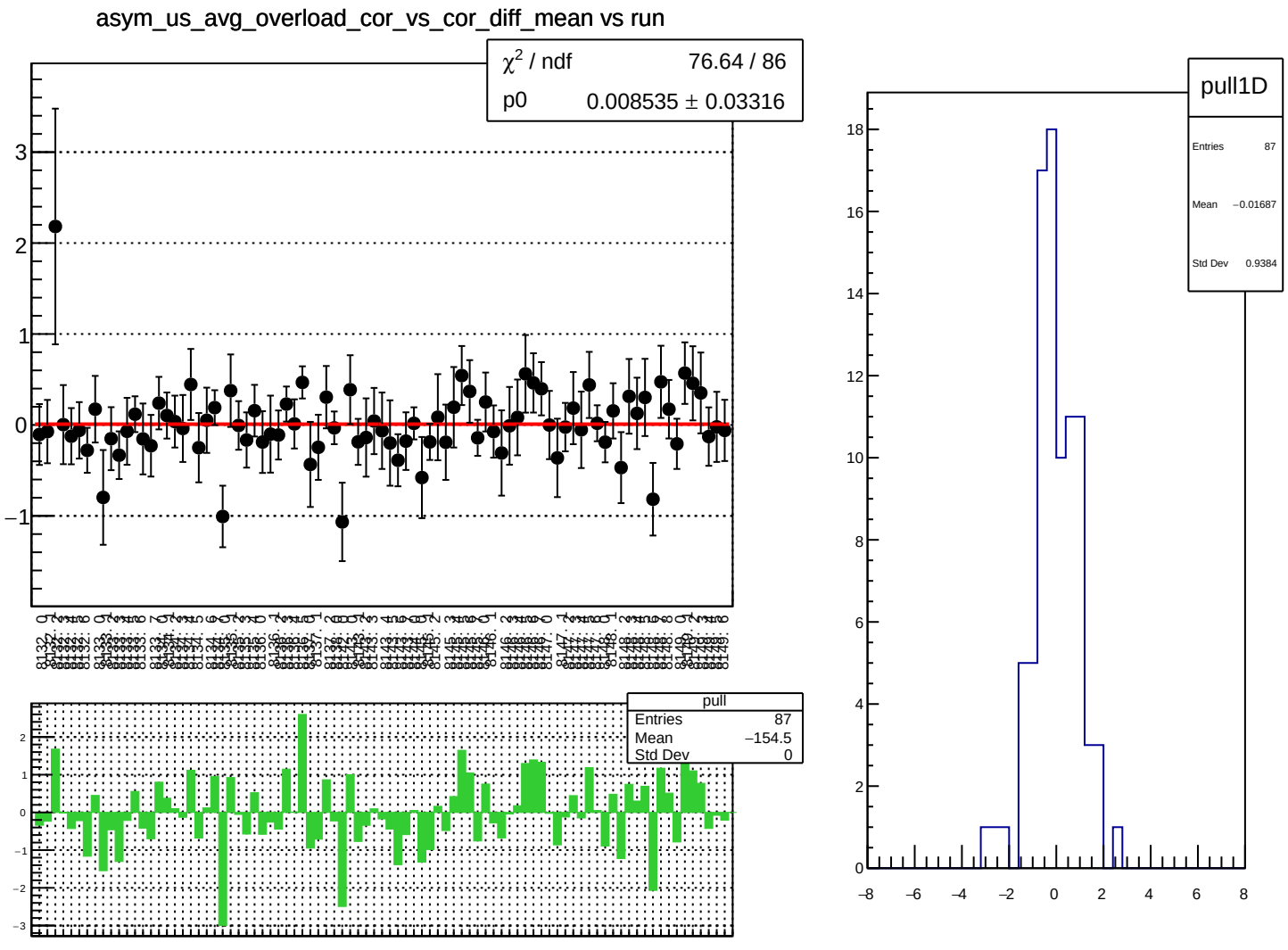

asym_us_avg_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 102 / 86
p0 0.03923 ± 0.06129
pull
Entries 87
Mean −248.6
Std Dev 0

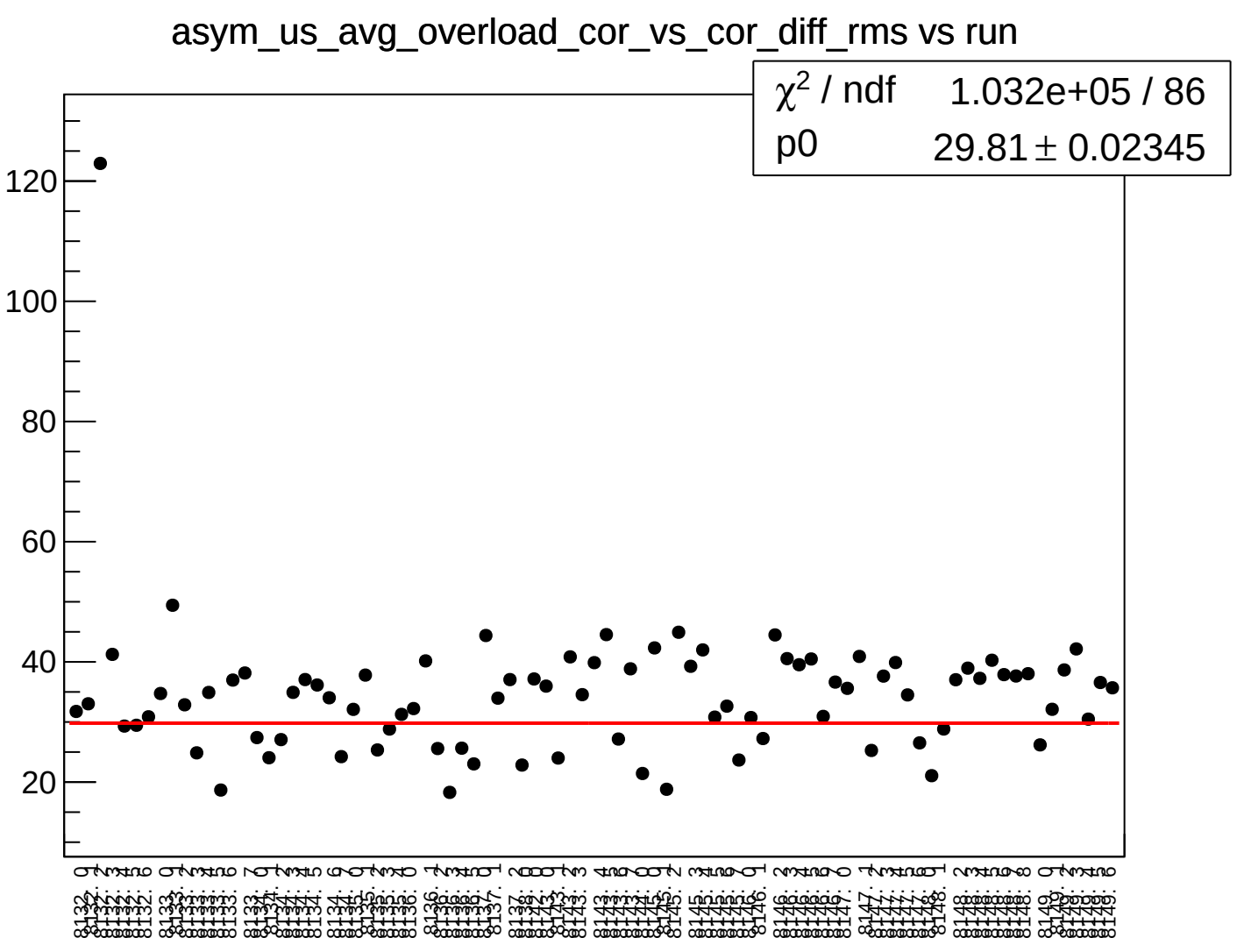

pull1D
Entries 87
Mean 0.01027
Std Dev 1.083

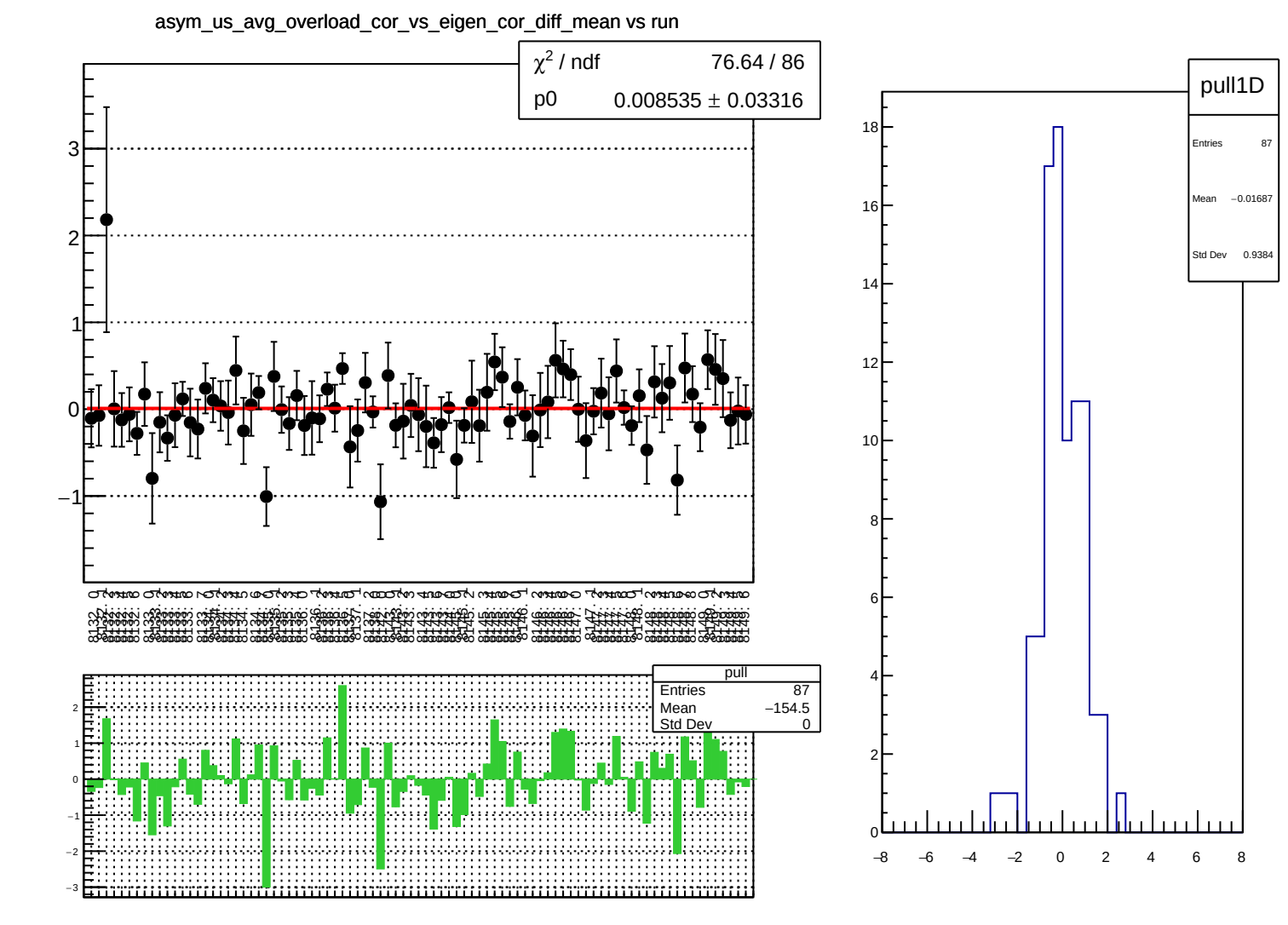

asym_us_avg_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.388e+05 / 86
p0 54.47 ± 0.04334
300
250
200
150
100
50

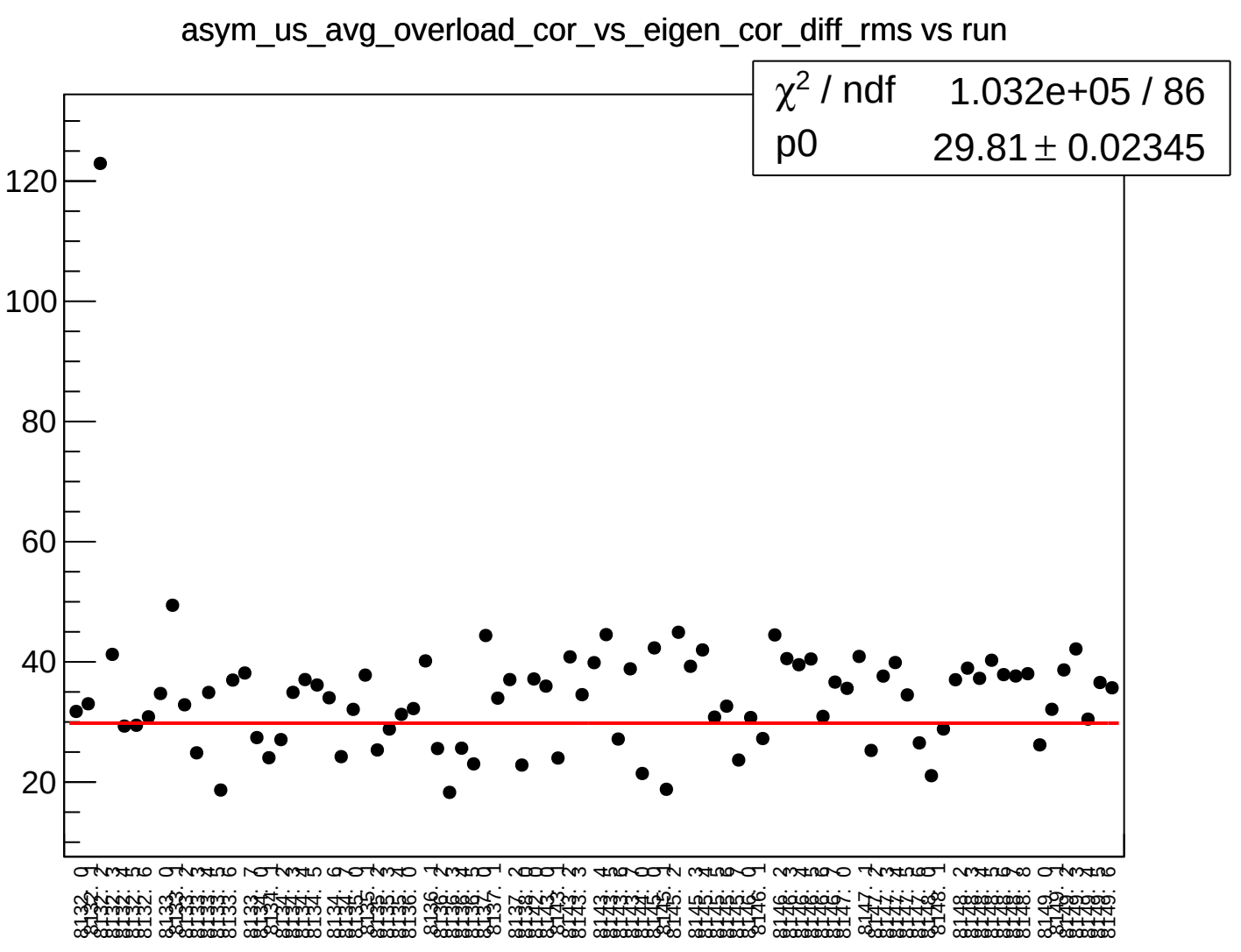

asym_us_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 73.99 / 86
p0 1.323e−14 ± 1.064e−13
pull
Entries 87
Mean 75.66
Std Dev 41.97
pull1D
Entries 87
Mean 0.04376
Std Dev 0.9211

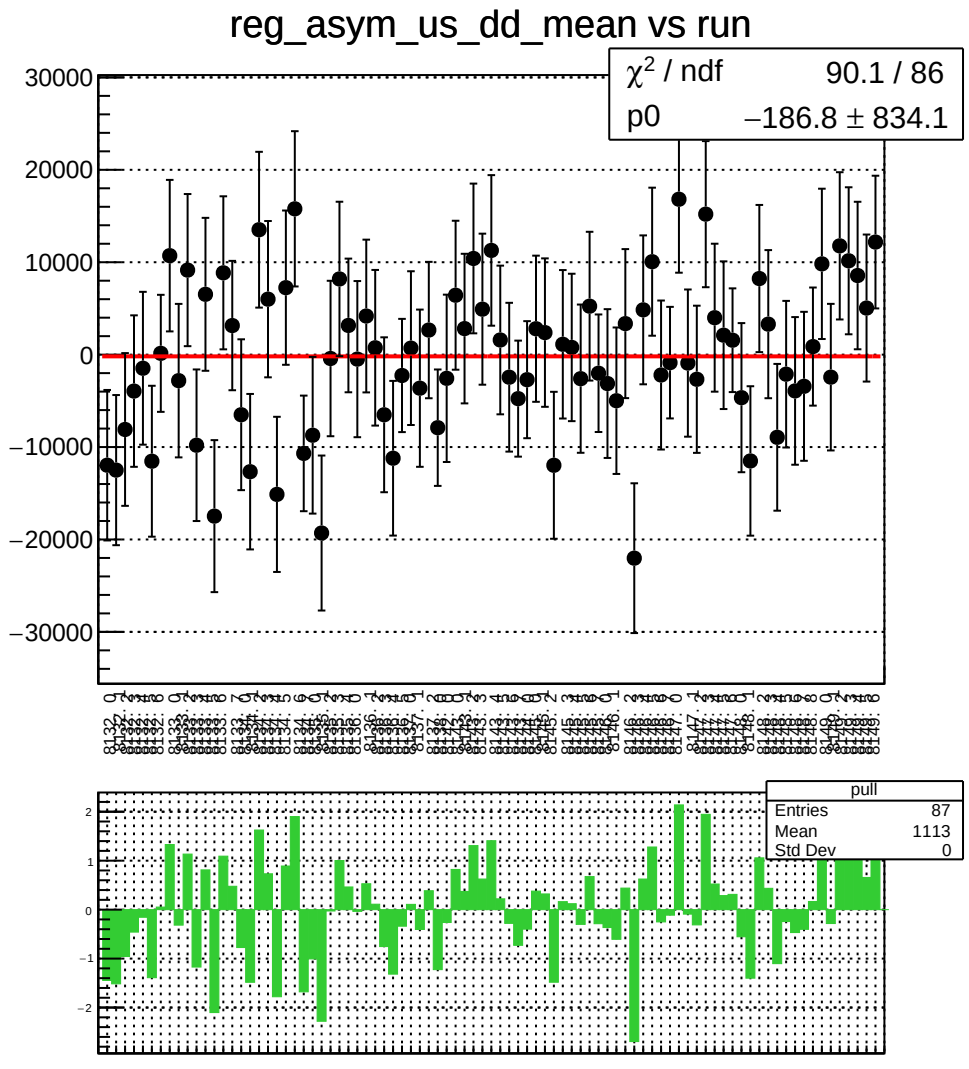

asym_us_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.694e+05 / 86
p0 8.413e−11 ± 7.527e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

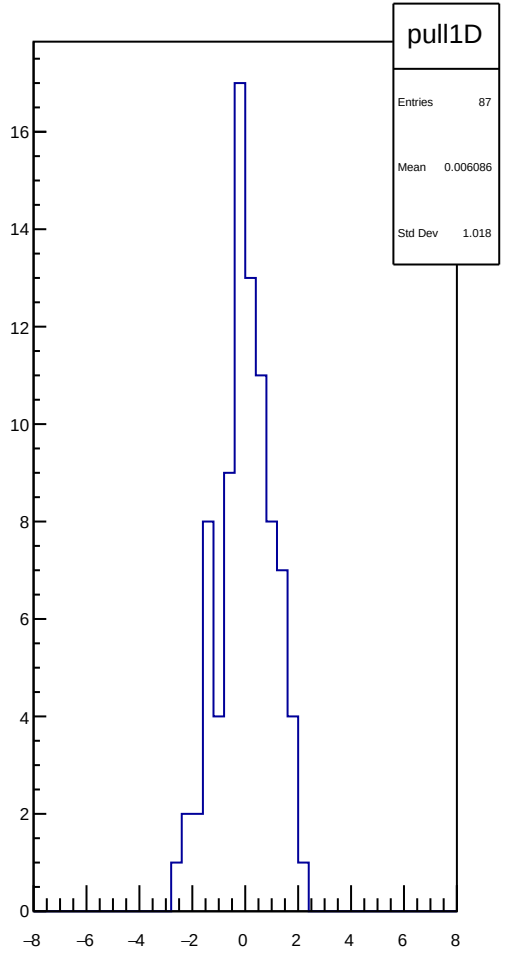

asym_us_avg_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 76.64 / 86
p0 0.008535 ± 0.03316
pull
Entries 87
Mean −154.5
Std Dev 0
pull1D
Entries 87
Mean −0.01687
Std Dev 0.9384

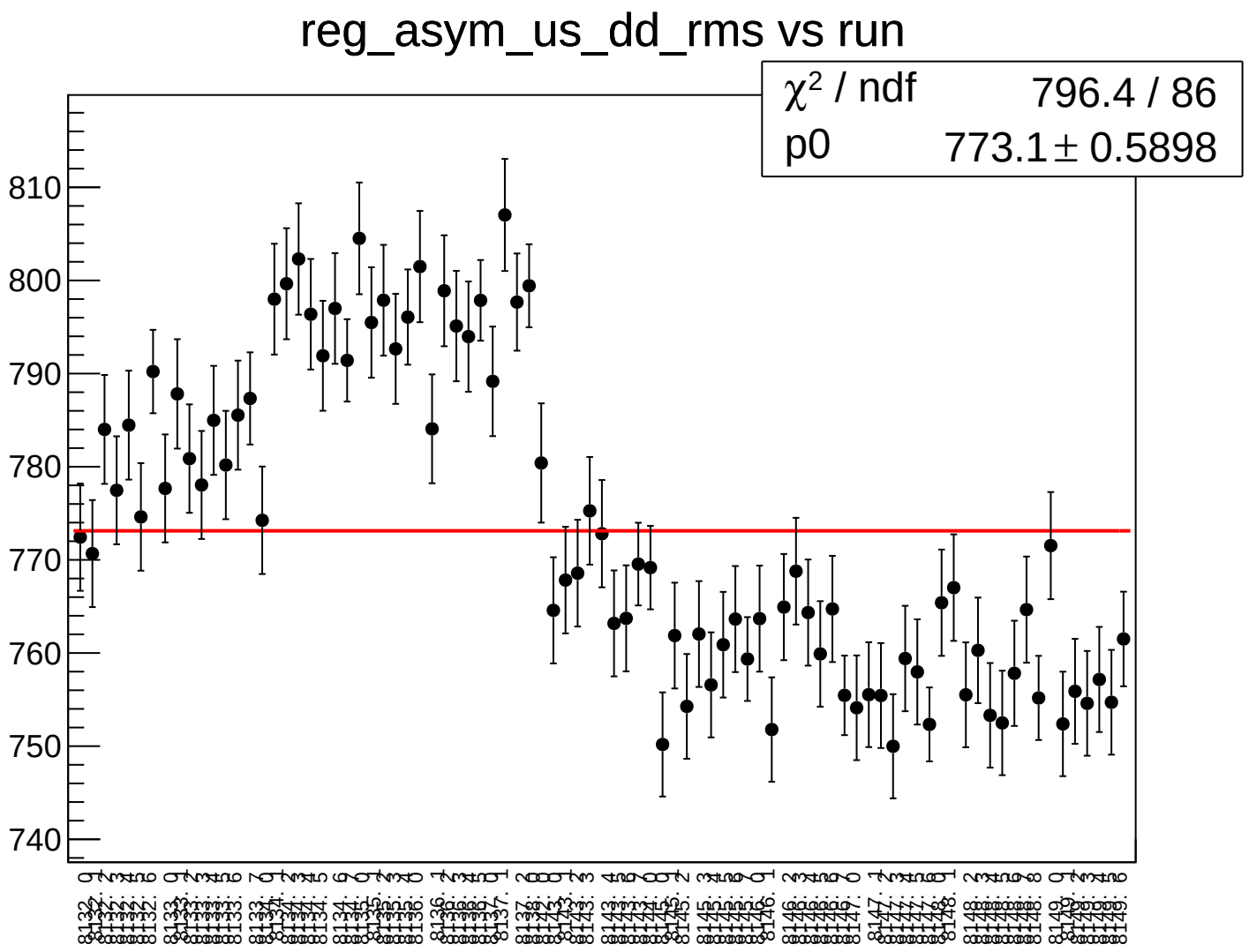

asym_us_avg_overload_cor_vs_cor_diff_rms vs run
χ^2 / ndf 1.032e+05 / 86
p0 29.81 ± 0.02345
120
100
80
60
40
20

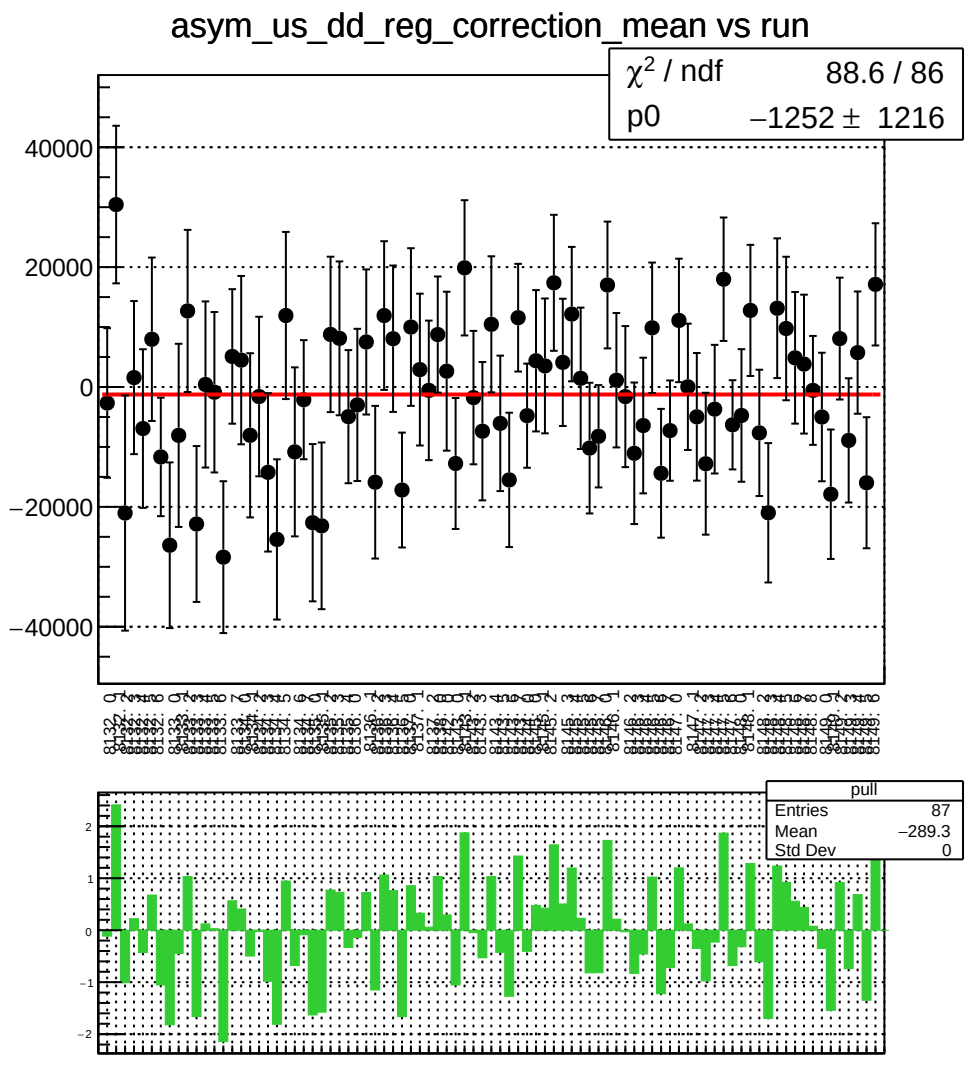

asym_us_avg_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.64 / 86
p0 0.008535 ± 0.03316
pull
Entries 87
Mean −154.5
Std Dev 0
pull1D
Entries 87
Mean −0.01687
Std Dev 0.9384

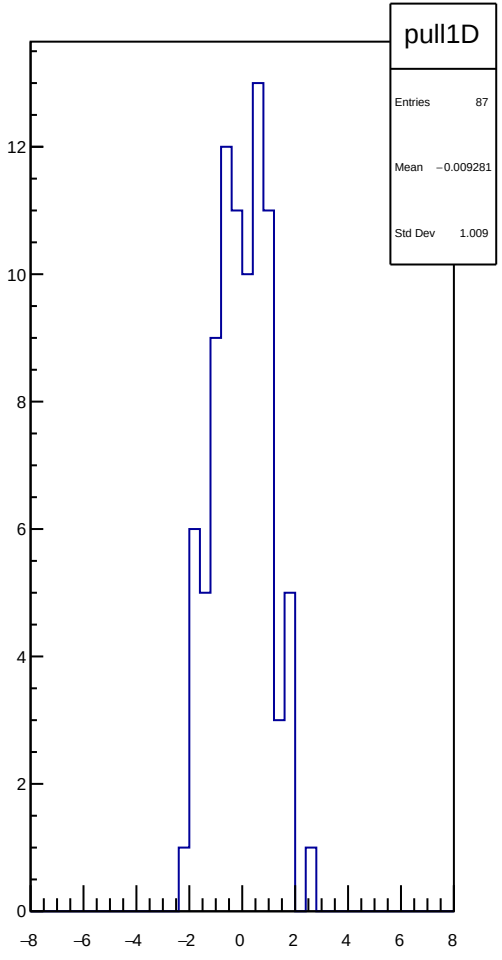

asym_us_avg_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.032e+05 / 86
p0 29.81 ± 0.02345
120
100
80
60
40
20

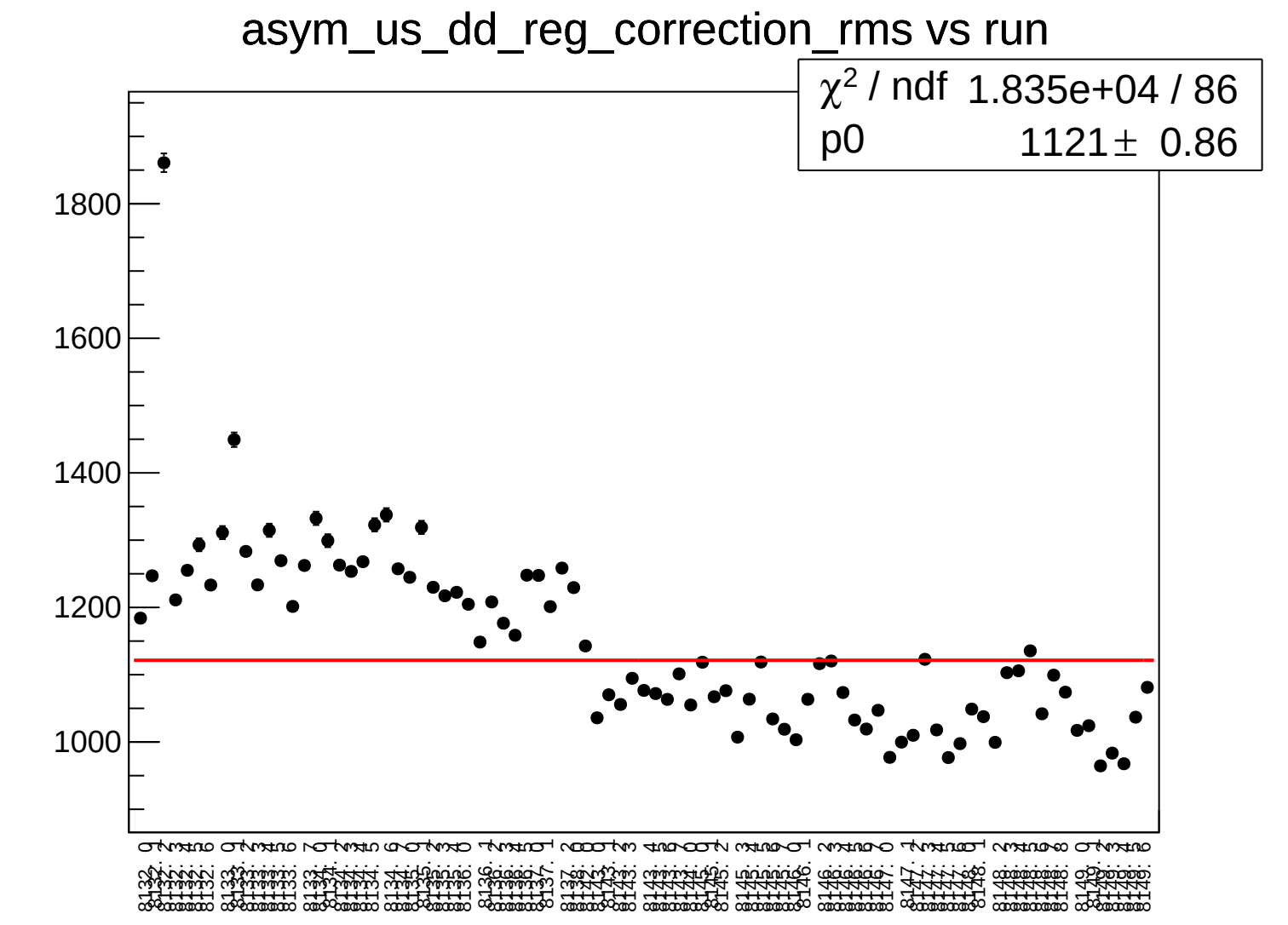

reg_asym_us_dd_mean vs run
χ² / ndf 90.1 / 86
p0 −186.8 ± 834.1
pull
Entries 87
Mean 1113
Std Dev 0

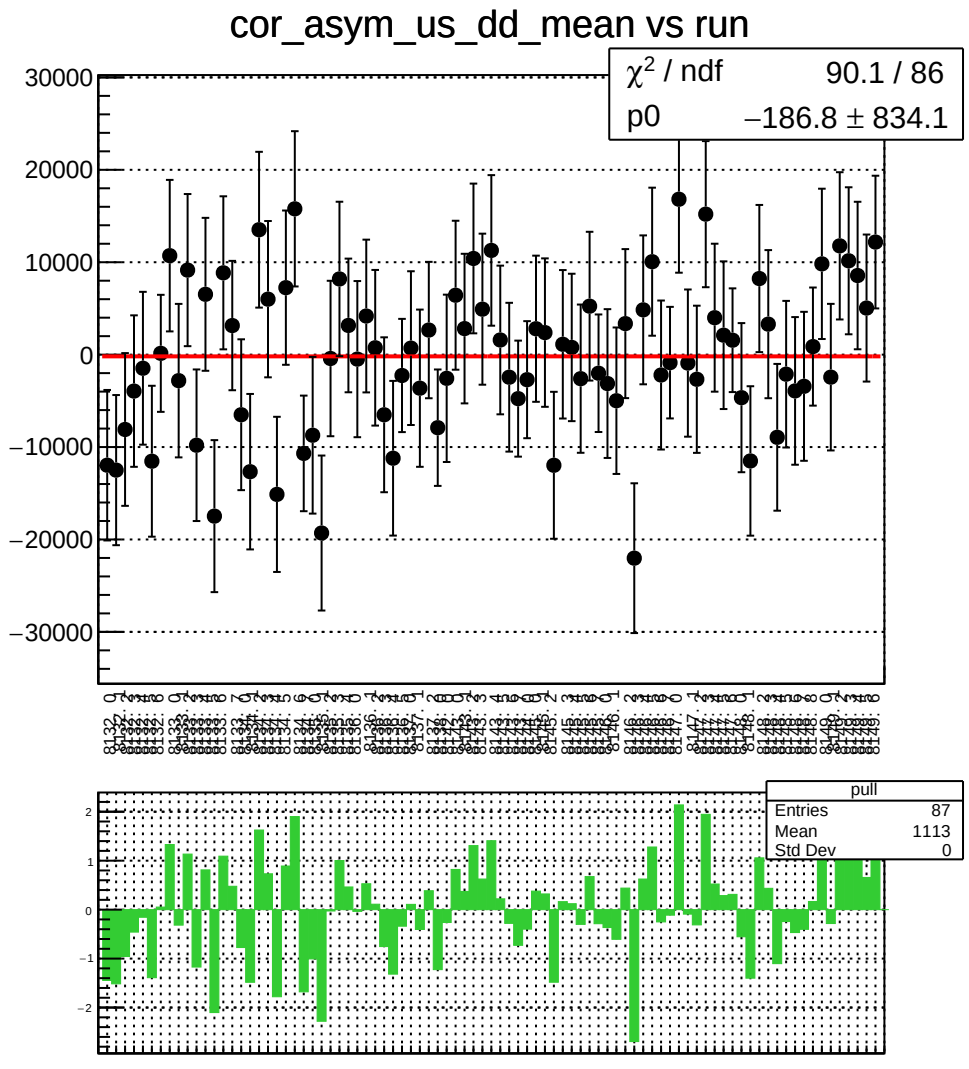

pull1D
Entries 87
Mean 0.006086
Std Dev 1.018

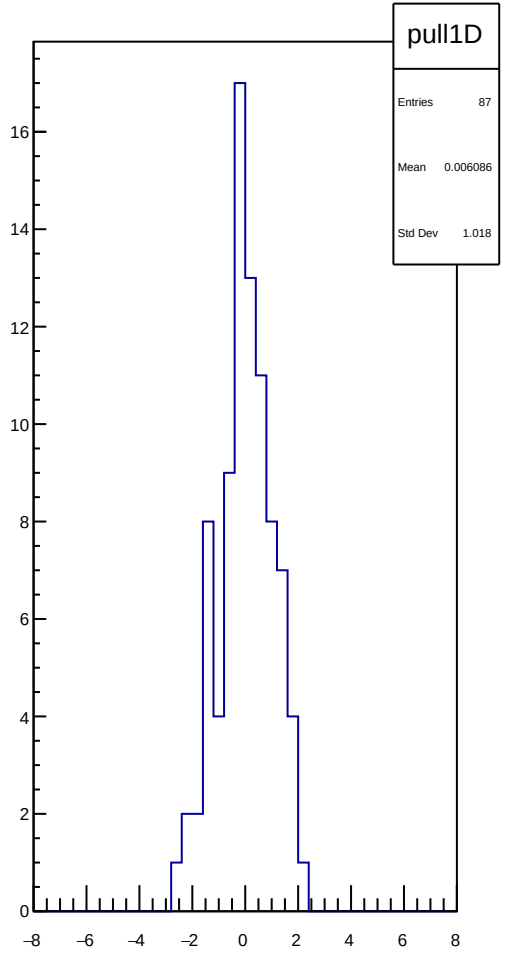

reg_asym_us_dd_rms vs run
χ² / ndf 796.4 / 86
p0 773.1 ± 0.5898
810
800
790
780
770
760
750
740

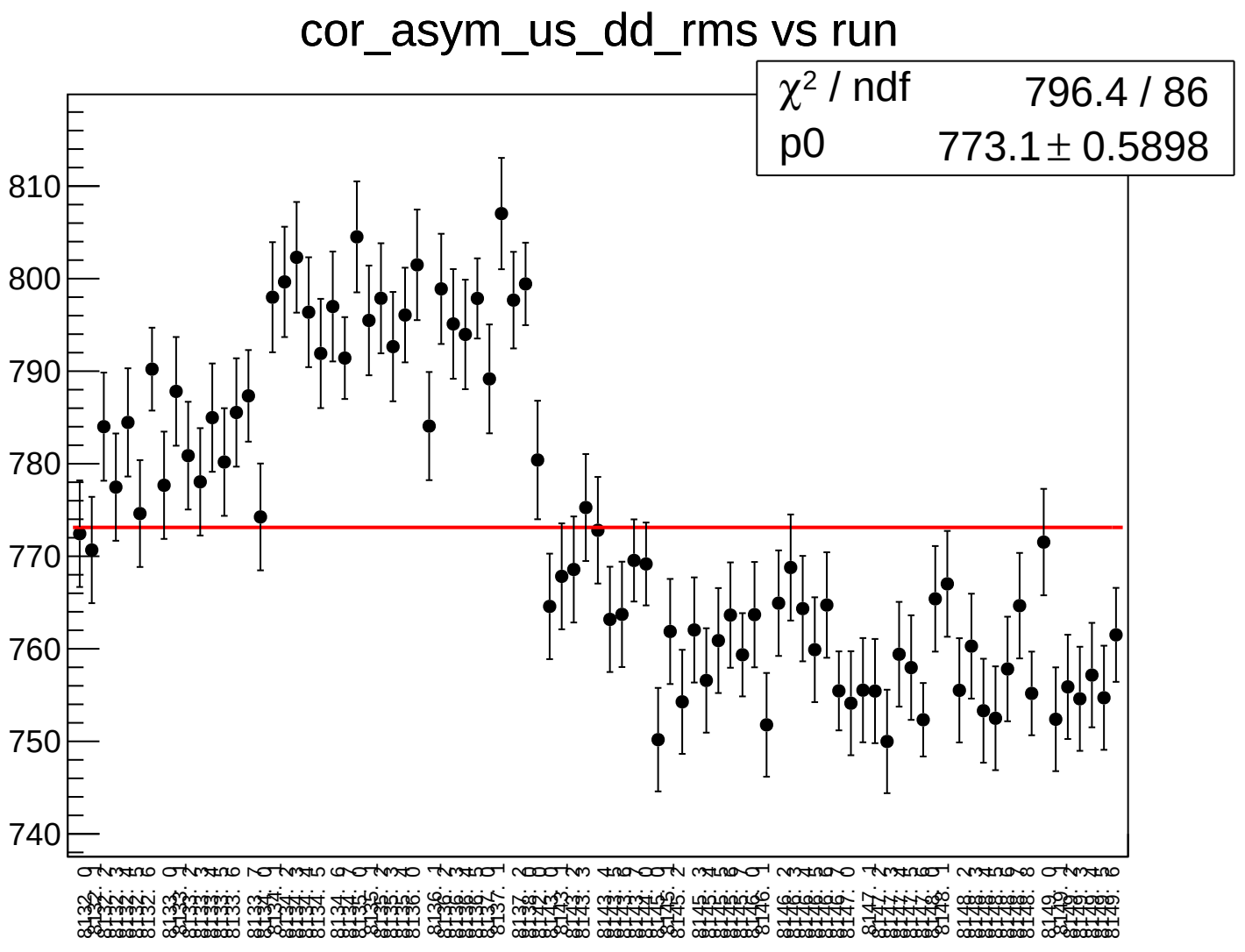

asym_us_dd_reg_correction_mean vs run
χ² / ndf 88.6 / 86
p0 −1252 ± 1216
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −289.3
Std Dev 0
2
1
0
−1
−2

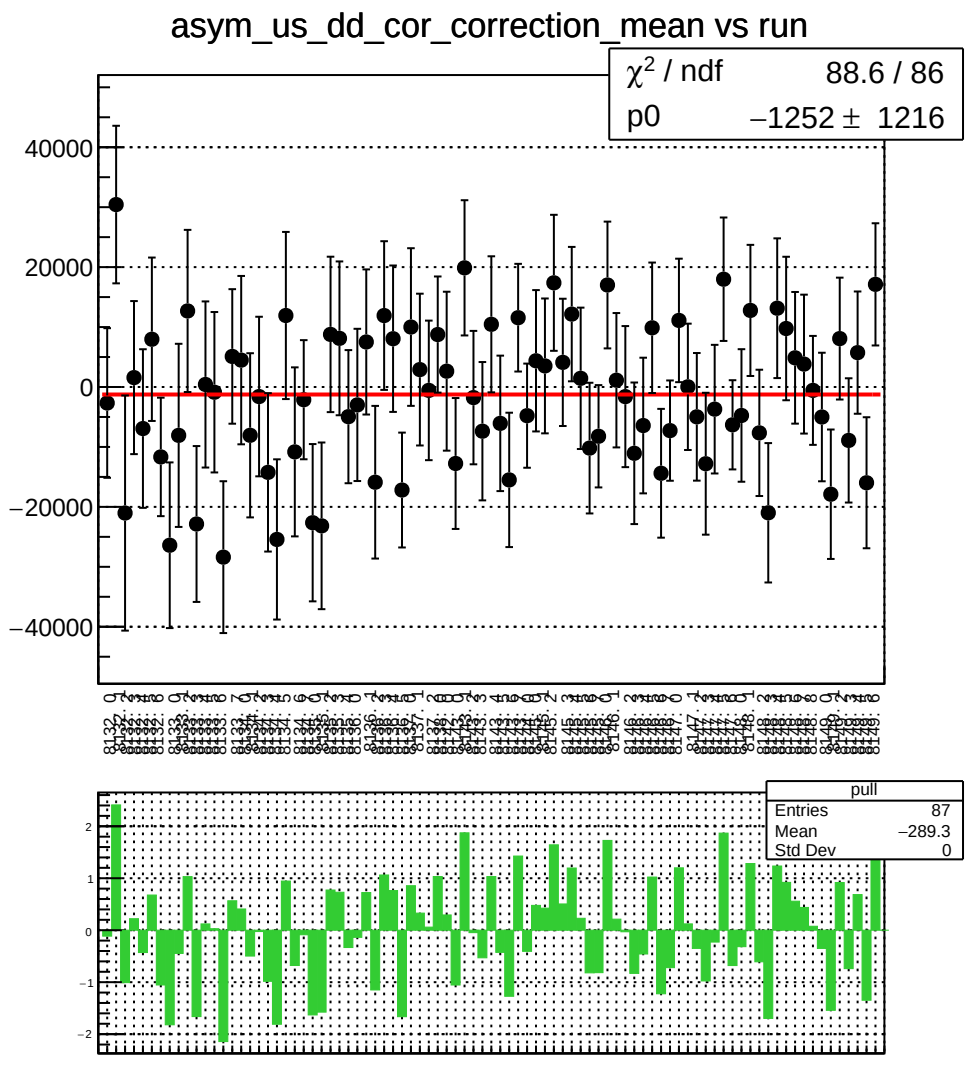

pull1D
Entries 87
Mean −0.009281
Std Dev 1.009
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

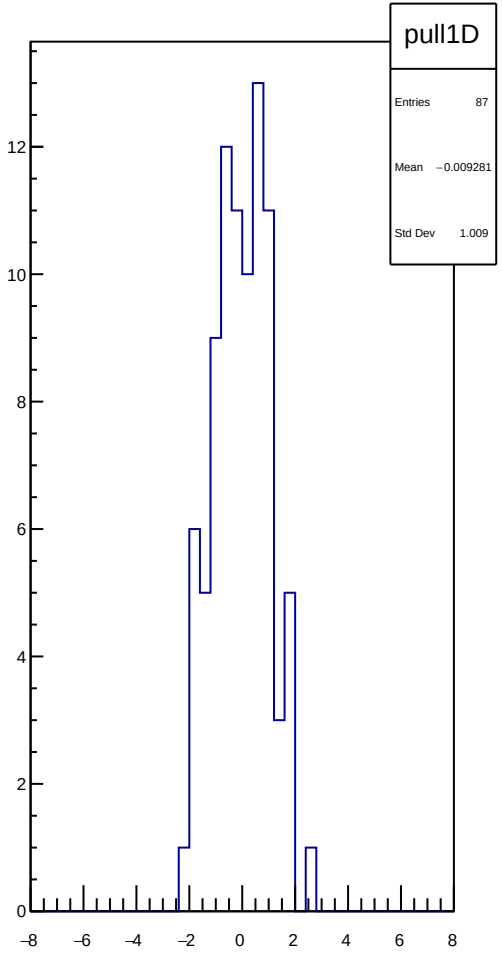

asym_us_dd_reg_correction_rms vs run
χ² / ndf 1.835e+04 / 86
p0 1121 ± 0.86
1800
1600
1400
1200
1000

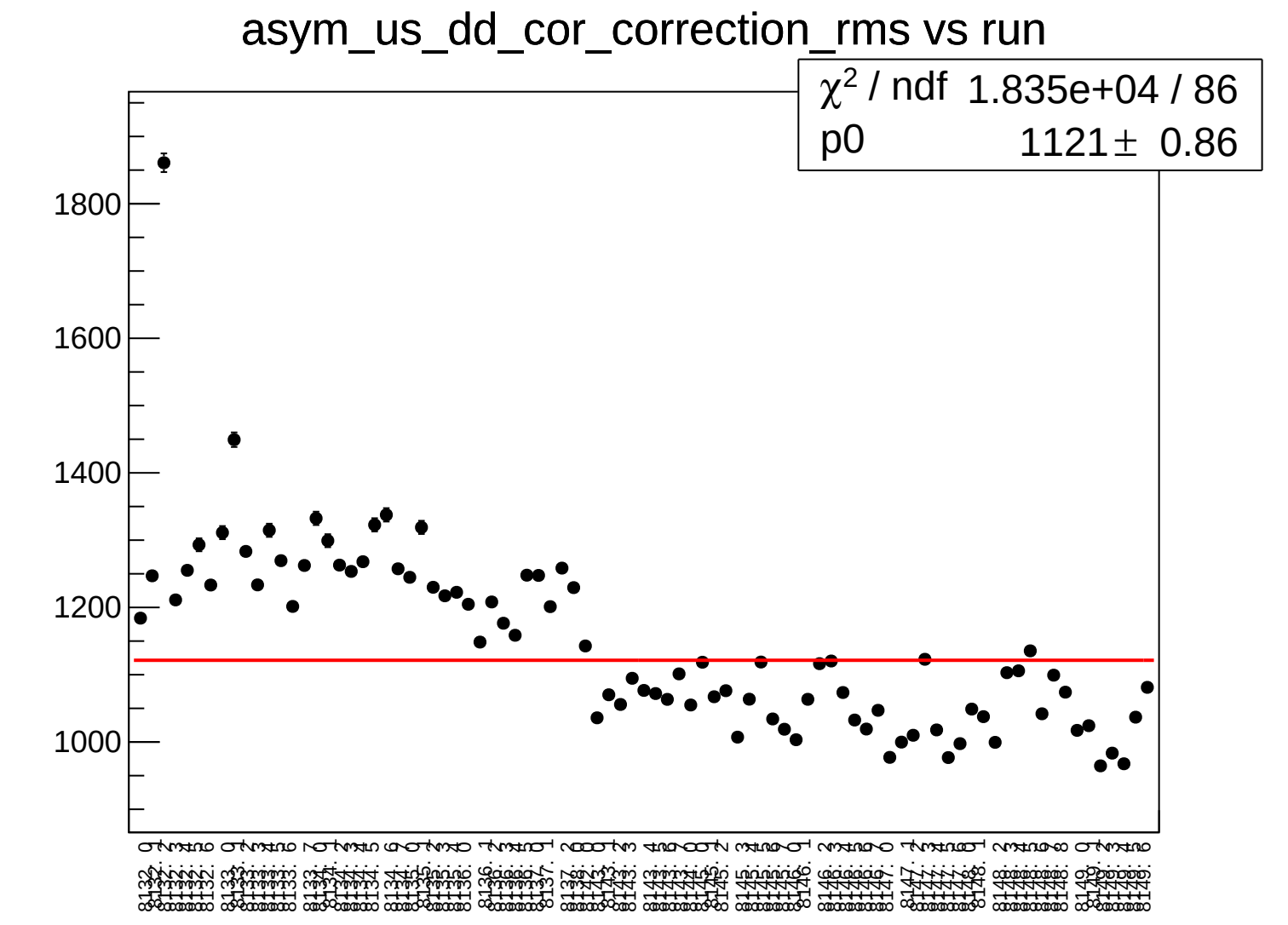

cor_asym_us_dd_mean vs run
χ² / ndf 90.1 / 86
p0 −186.8 ± 834.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean 1113
Std Dev 0
2
1
0
−1
−2

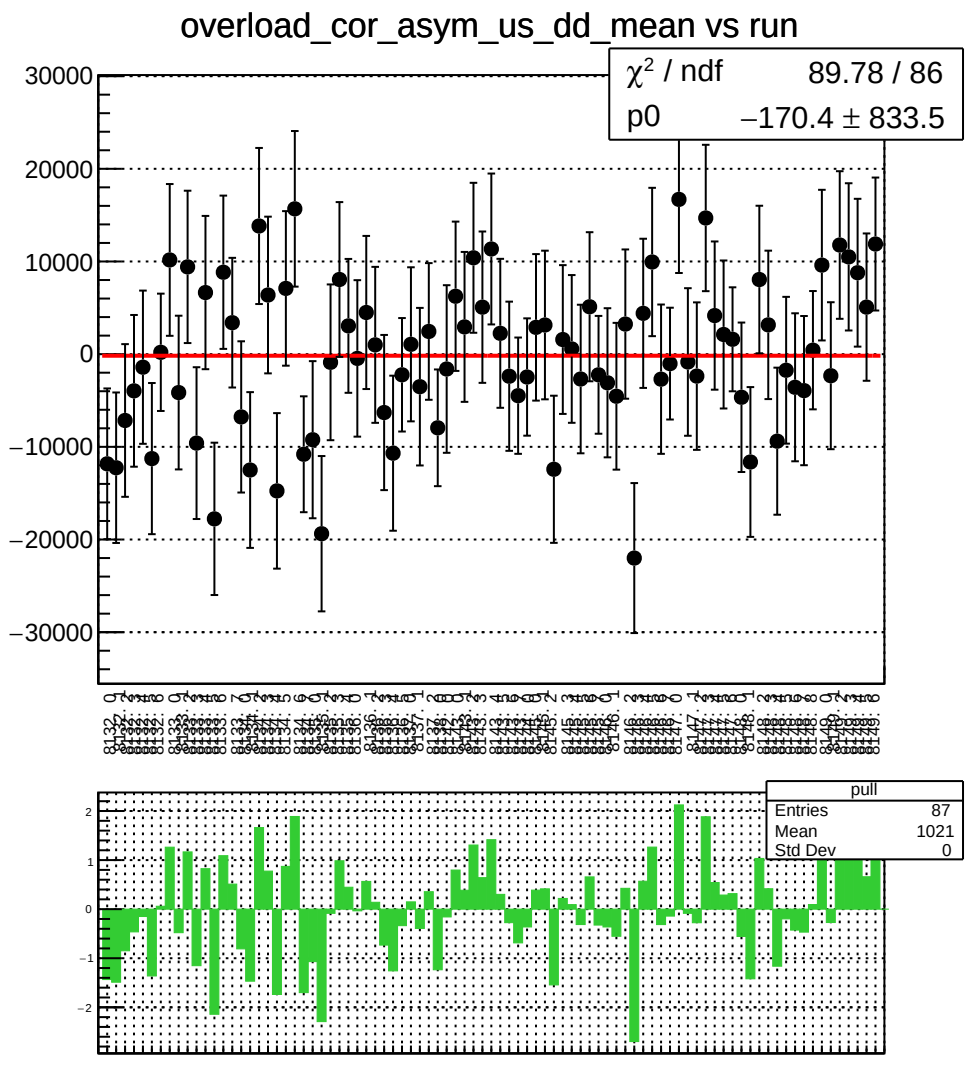

pull1D
Entries 87
Mean 0.006086
Std Dev 1.018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

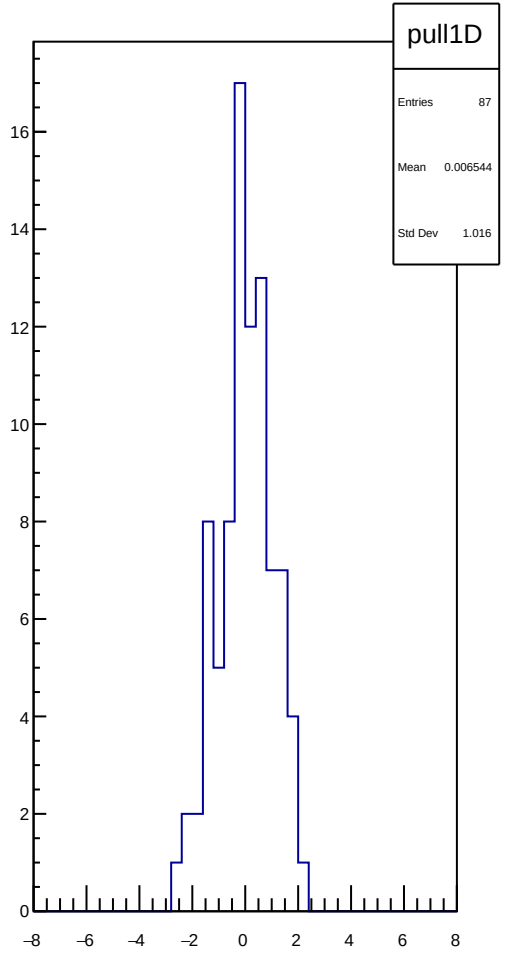

cor_asym_us_dd_rms vs run
χ² / ndf 796.4 / 86
p0 773.1 ± 0.5898
810
800
790
780
770
760
750
740


asym_us_dd_cor_correction_mean vs run
χ² / ndf 88.6 / 86
p0 −1252 ± 1216
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −289.3
Std Dev 0
2
1
0
−1
−2

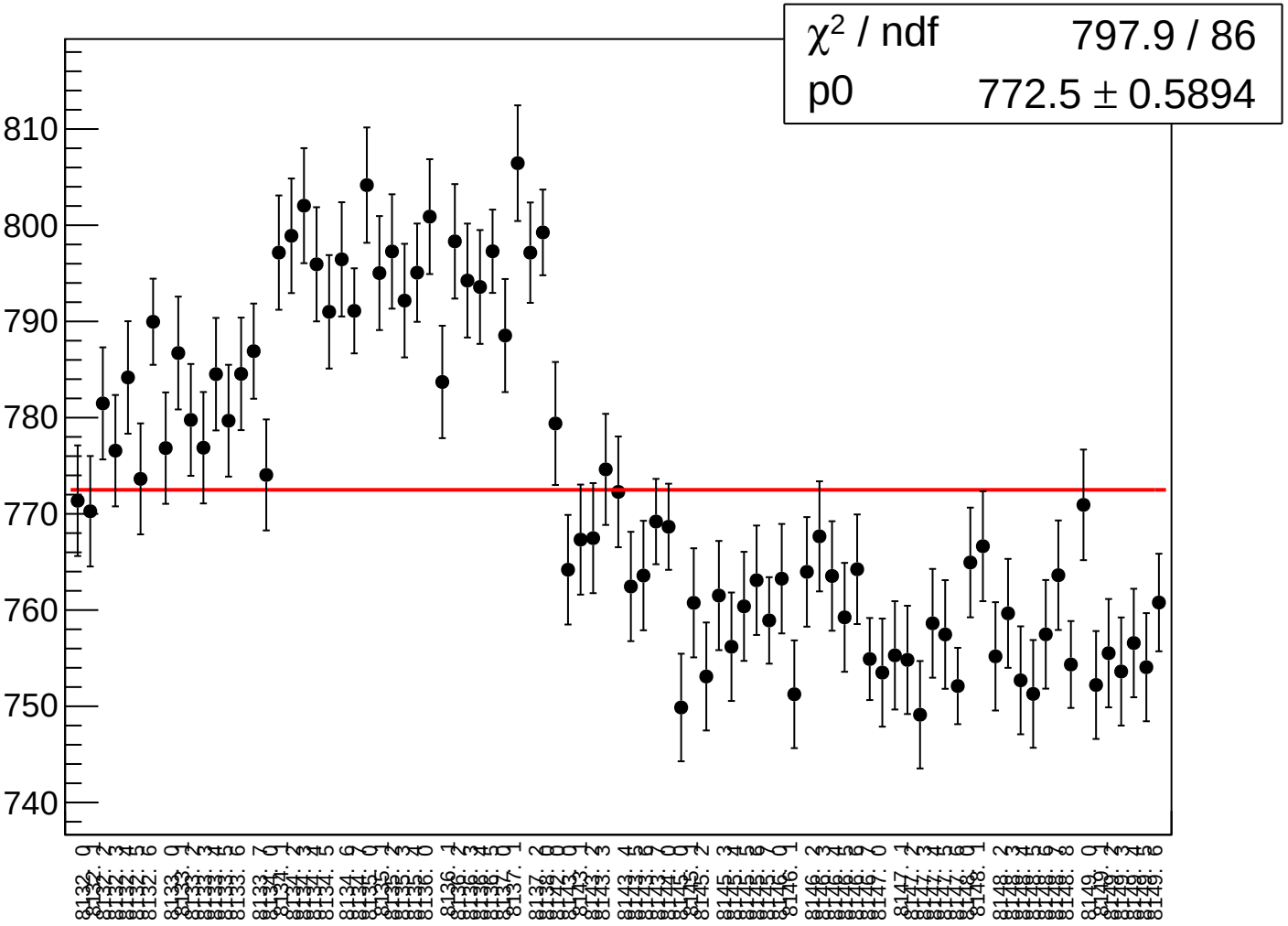

pull1D
Entries 87
Mean −0.009281
Std Dev 1.009
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_cor_correction_rms vs run
χ² / ndf 1.835e+04 / 86
p0 1121 ± 0.86
1800
1600
1400
1200
1000

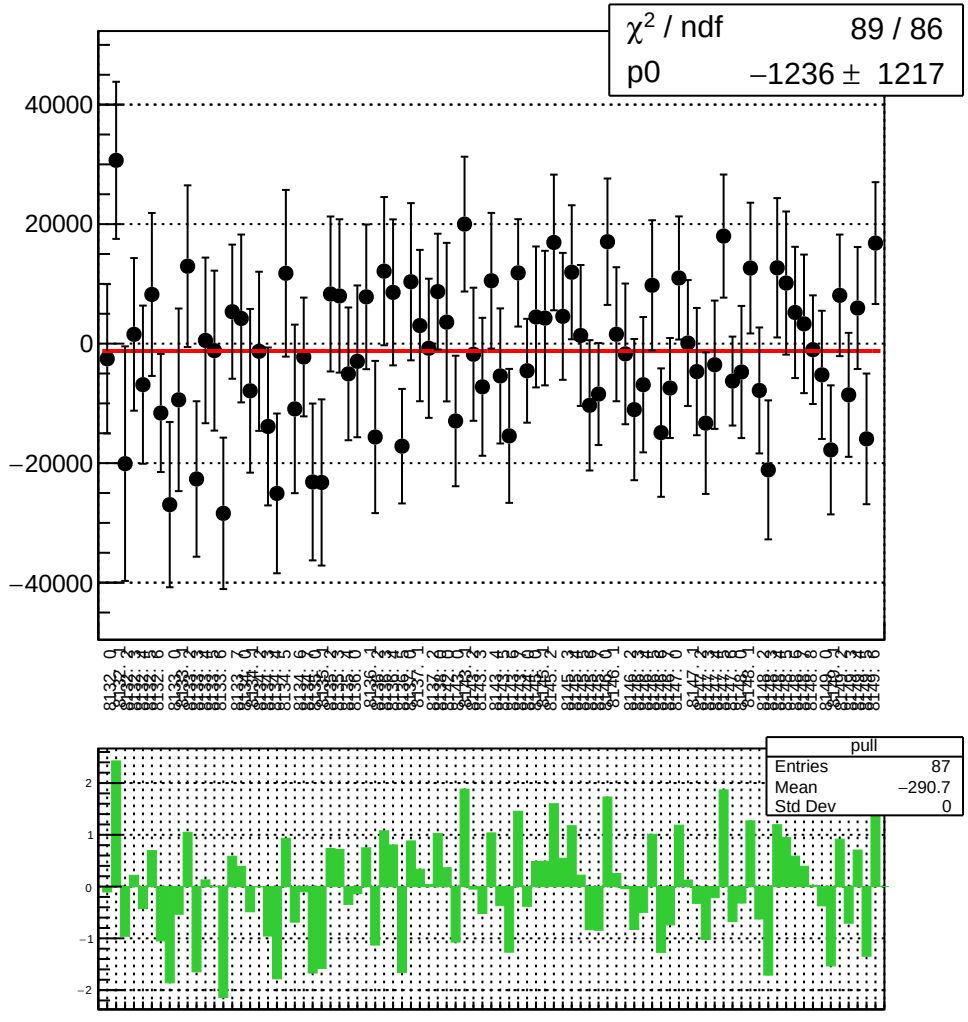

overload_cor_asym_us_dd_mean vs run
χ² / ndf 89.78 / 86
p0 −170.4 ± 833.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean 1021
Std Dev 0
2
1
0
−1
−2

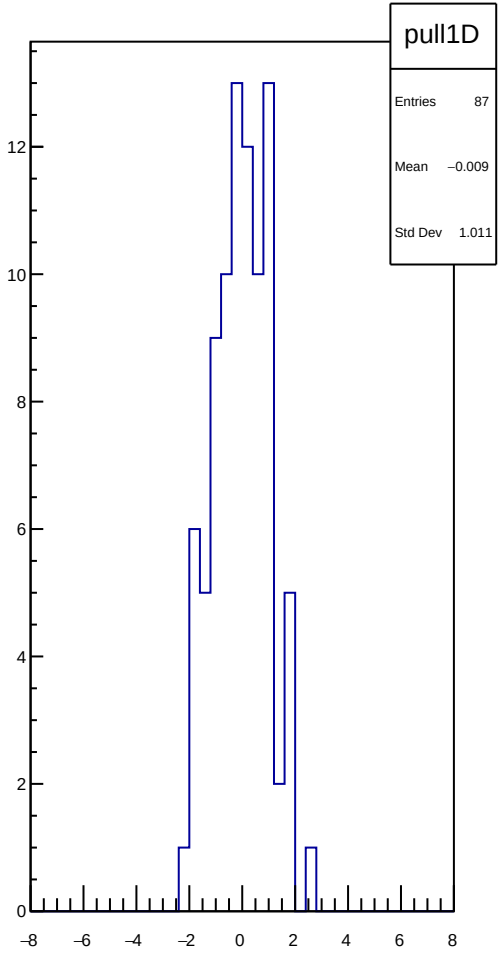

pull1D
Entries 87
Mean 0.006544
Std Dev 1.016
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

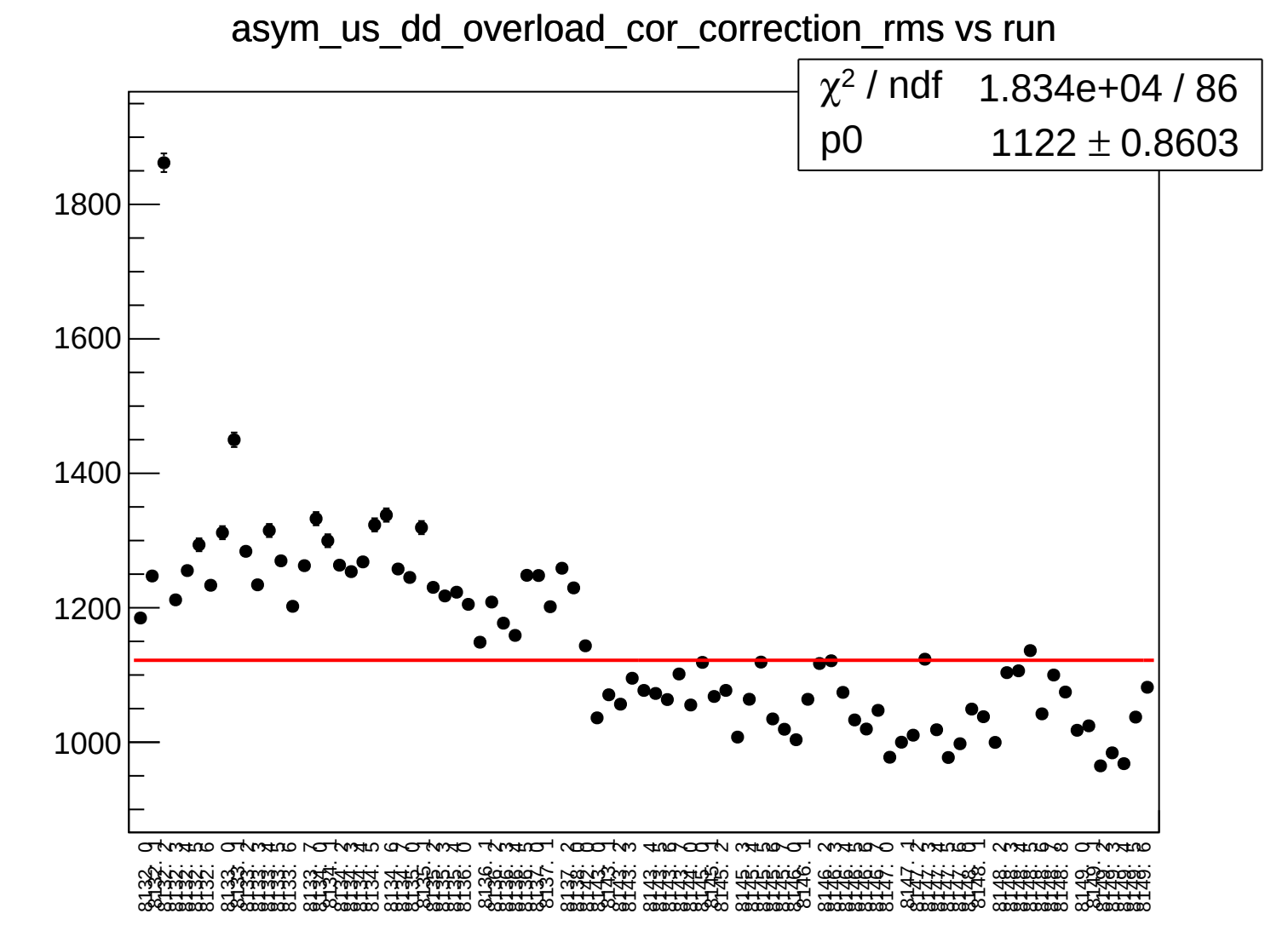
overload_cor_asym_us_dd_rms vs run

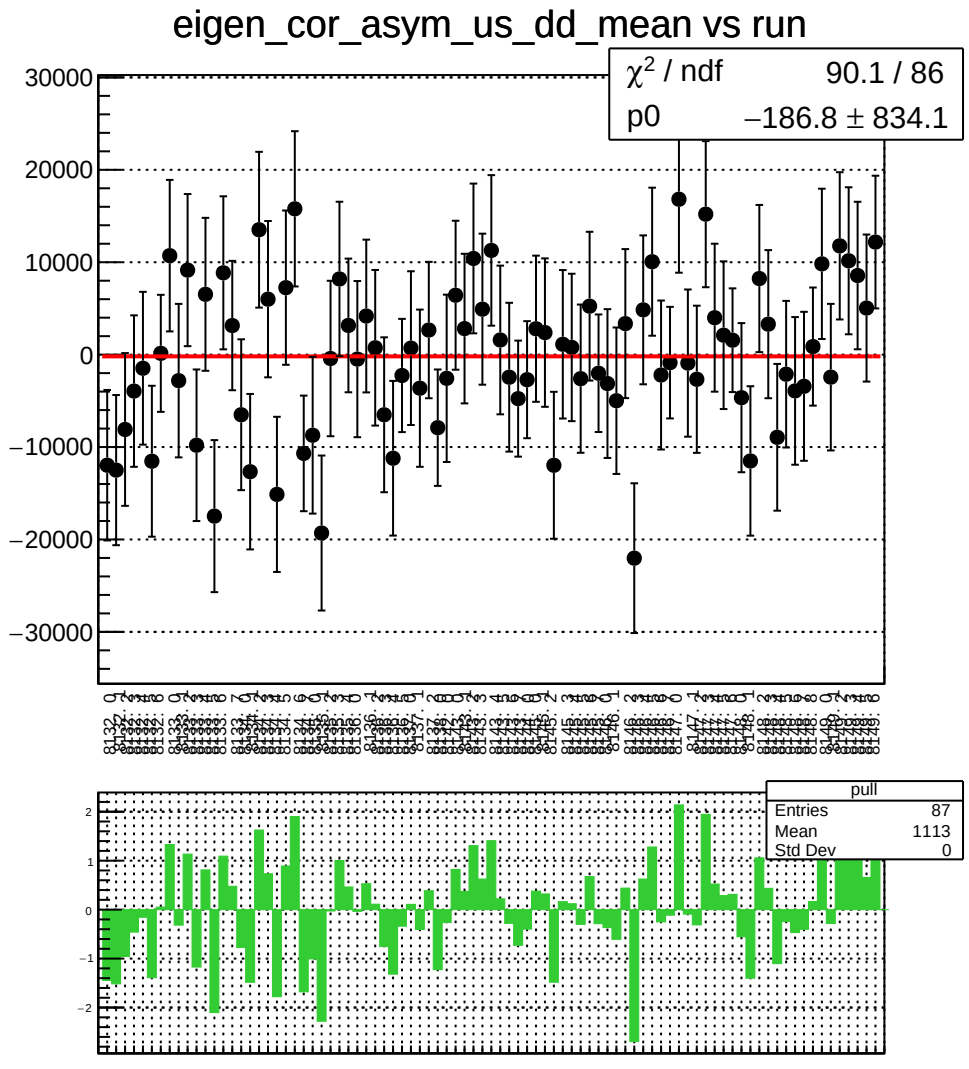


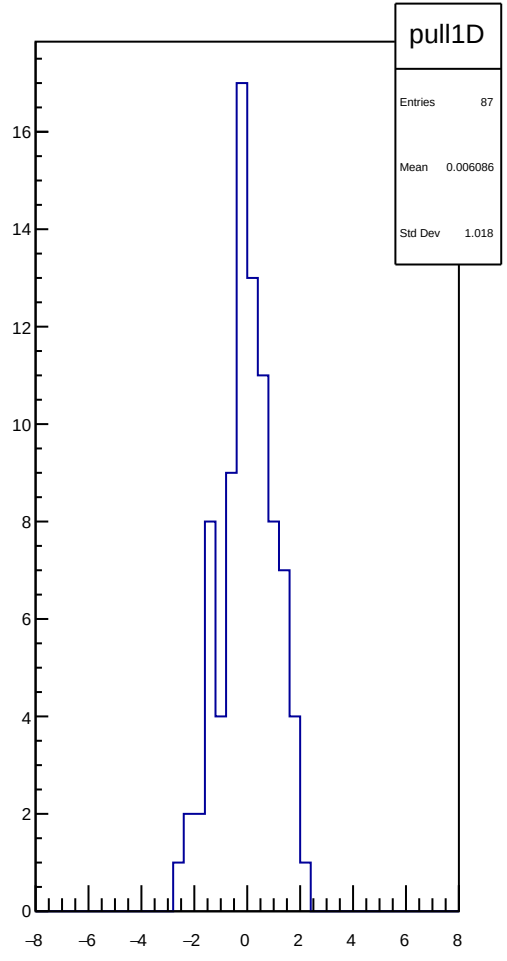
asym_us_dd_overload_cor_correction_mean vs run

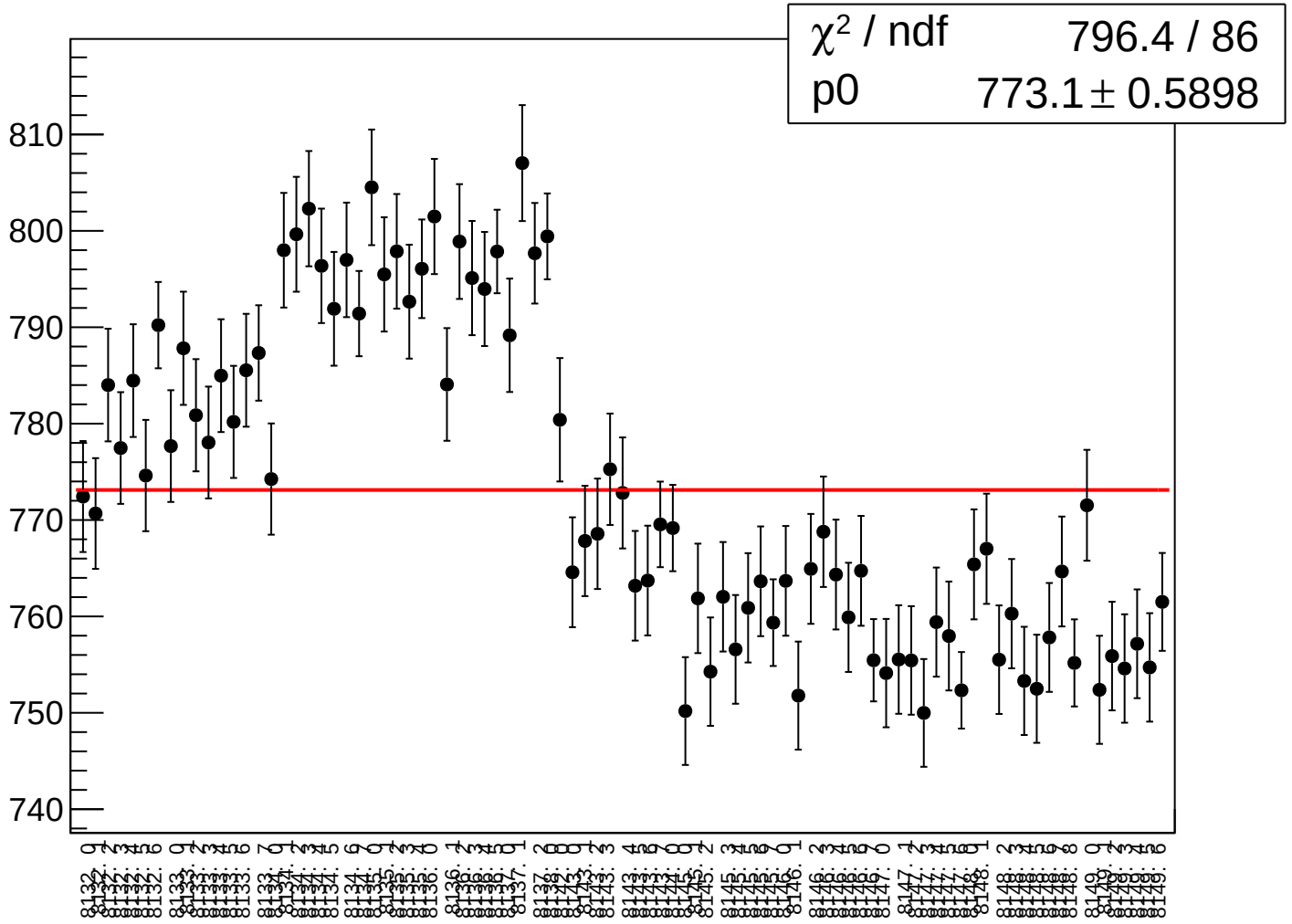


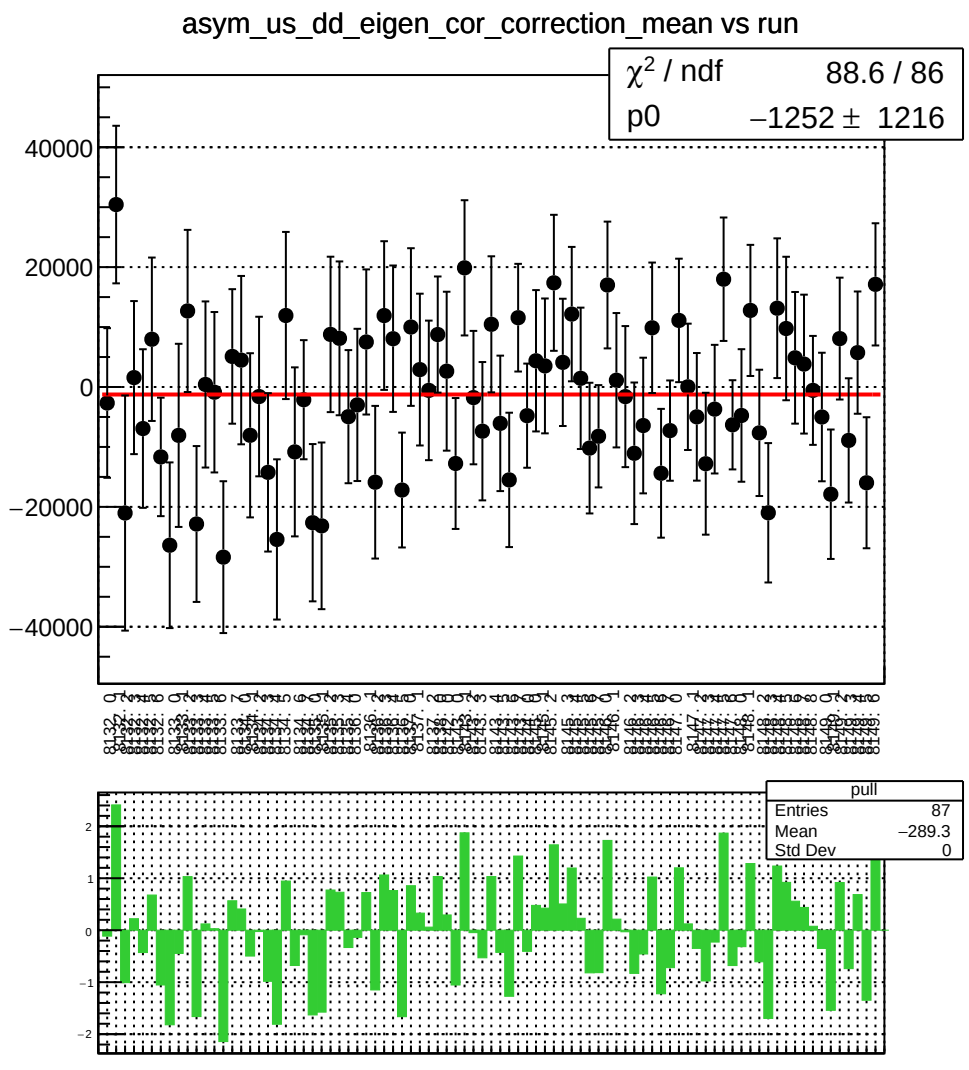


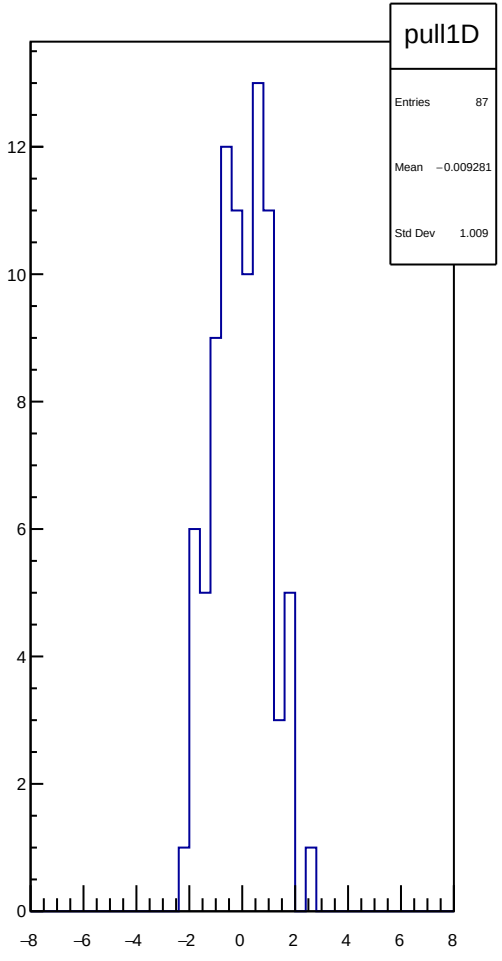

asym_us_dd_overload_cor_correction_rms vs run
χ² / ndf 1.834e+04 / 86
p0 1122 ± 0.8603
1800
1600
1400
1200
1000

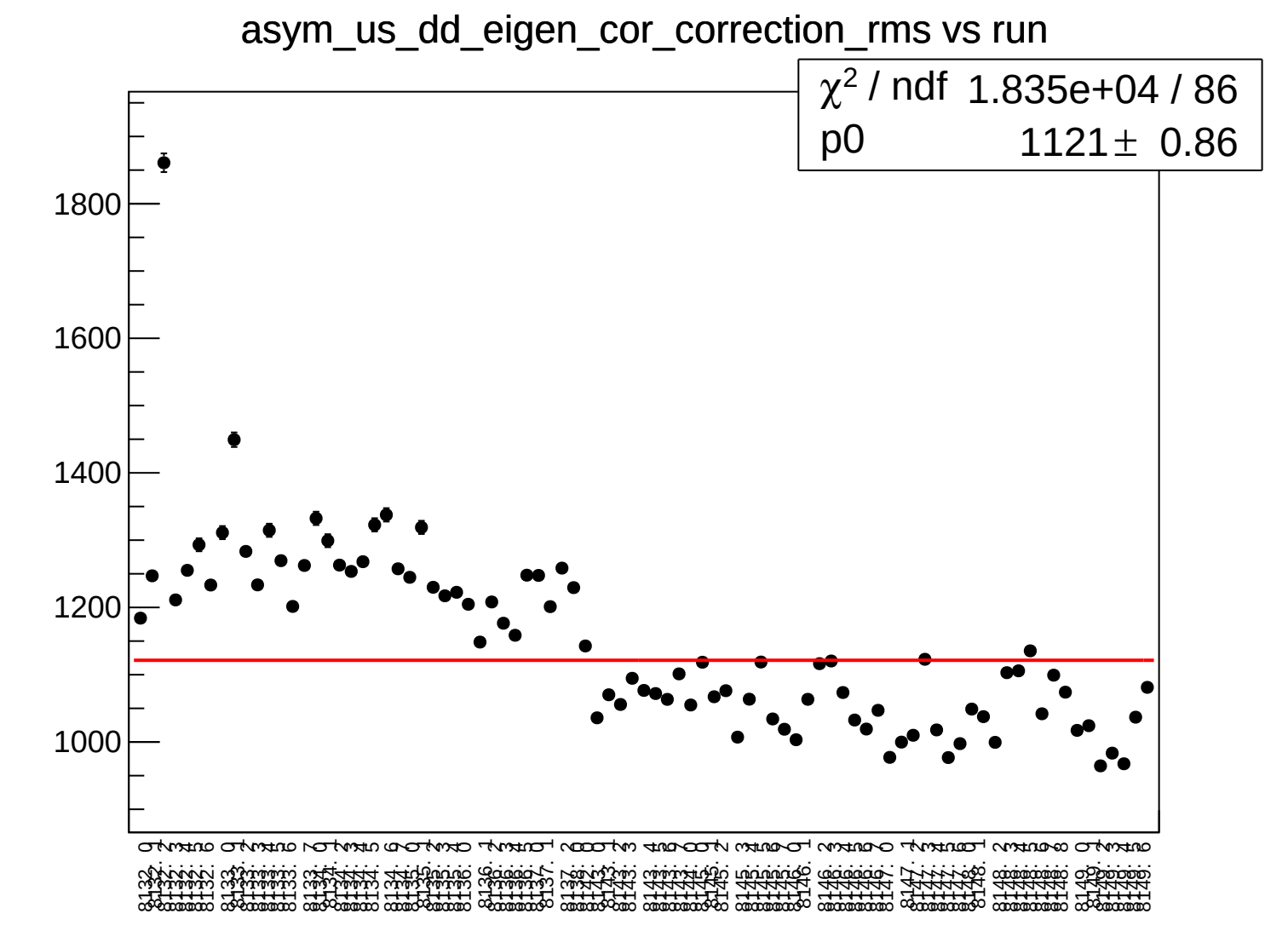

eigen_cor_asym_us_dd_mean vs run
χ² / ndf 90.1 / 86
p0 −186.8 ± 834.1
pull
Entries 87
Mean 1113
Std Dev 0

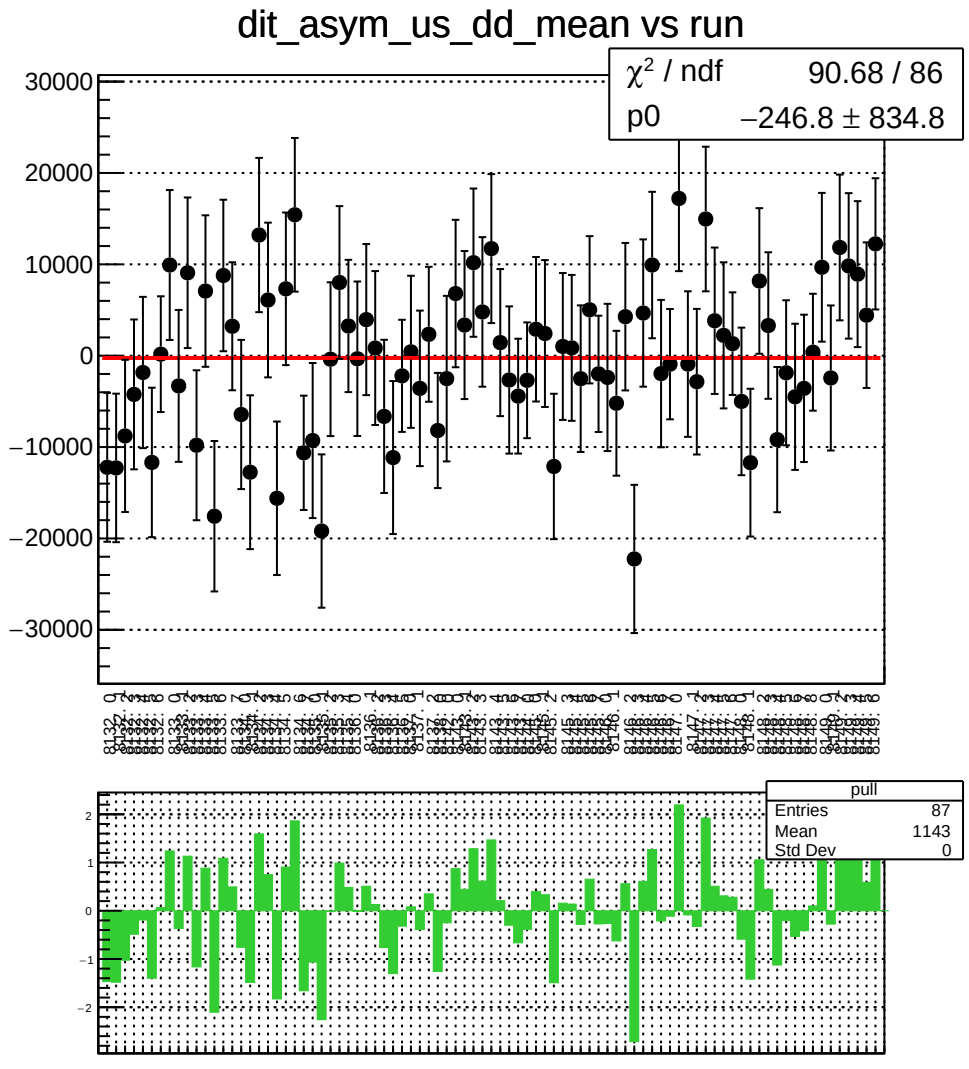

pull1D
Entries 87
Mean 0.006086
Std Dev 1.018

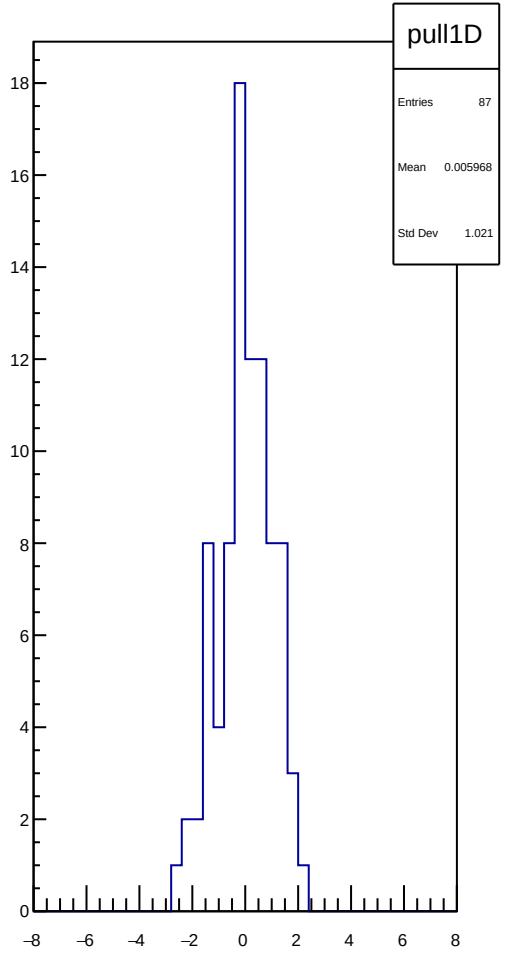

eigen_cor_asym_us_dd_rms vs run
χ² / ndf 796.4 / 86
p0 773.1 ± 0.5898
810
800
790
780
770
760
750
740

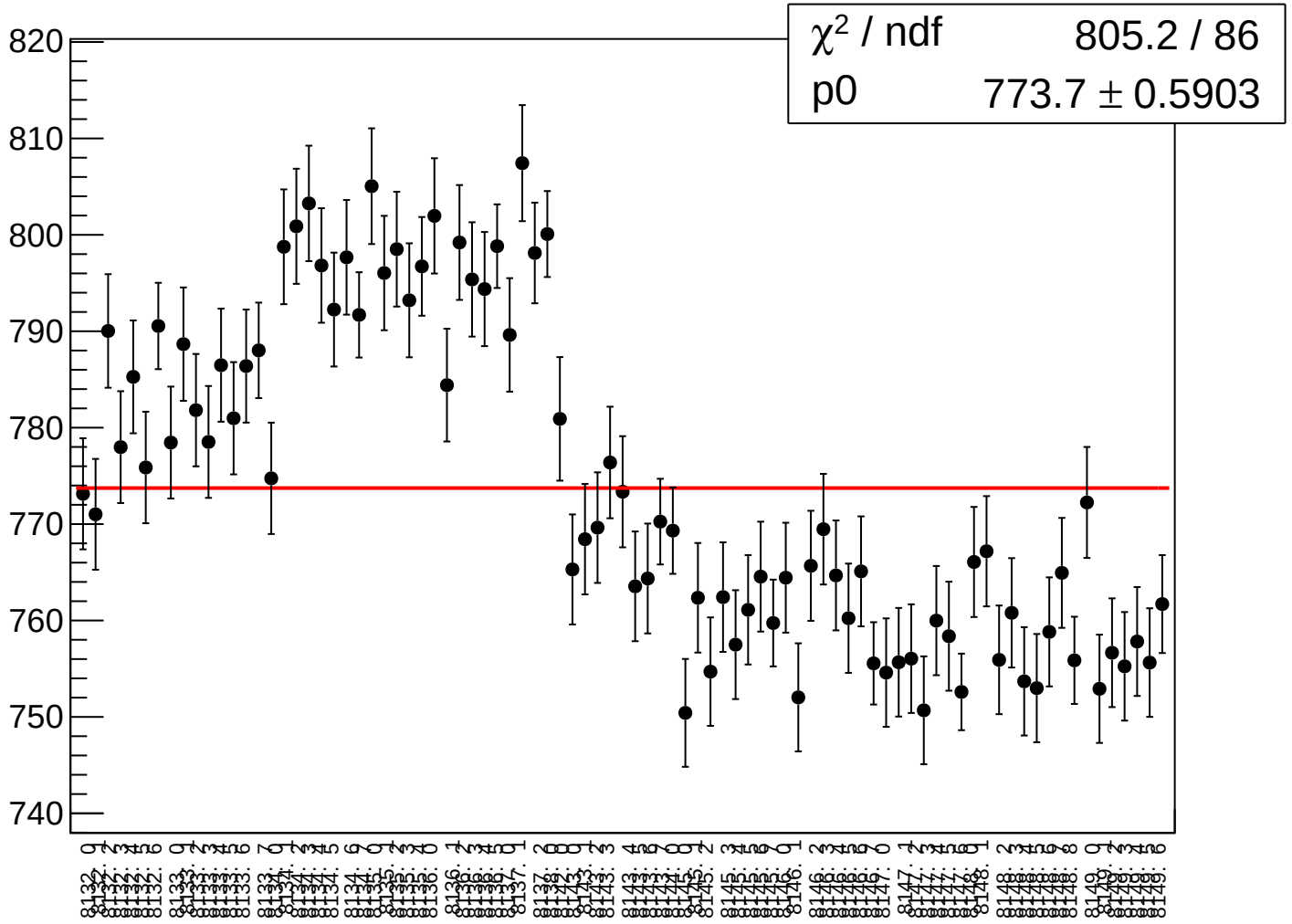

asym_us_dd_eigen_cor_correction_mean vs run
χ² / ndf 88.6 / 86
p0 −1252 ± 1216
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −289.3
Std Dev 0
2
1
0
−1
−2

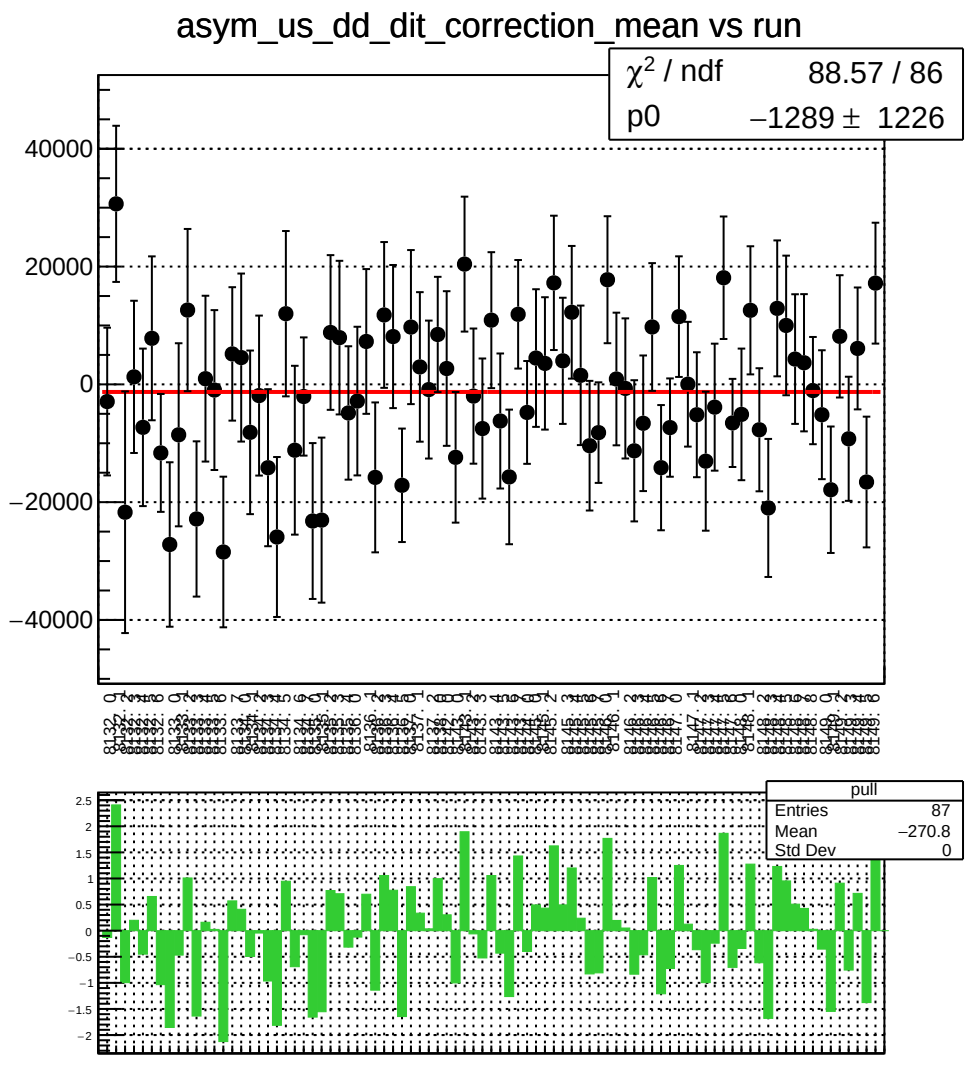

pull1D
Entries 87
Mean −0.009281
Std Dev 1.009
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

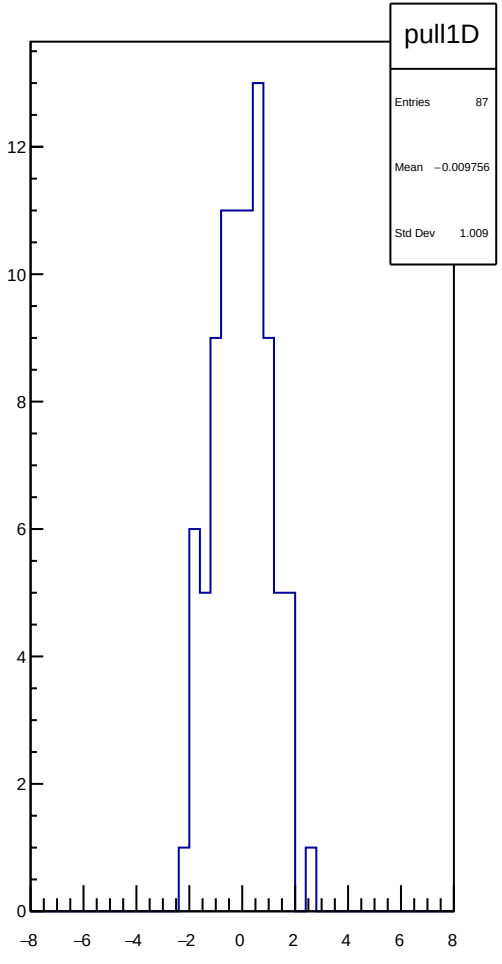

asym_us_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.835e+04 / 86
p0 1121 ± 0.86
1800
1600
1400
1200
1000

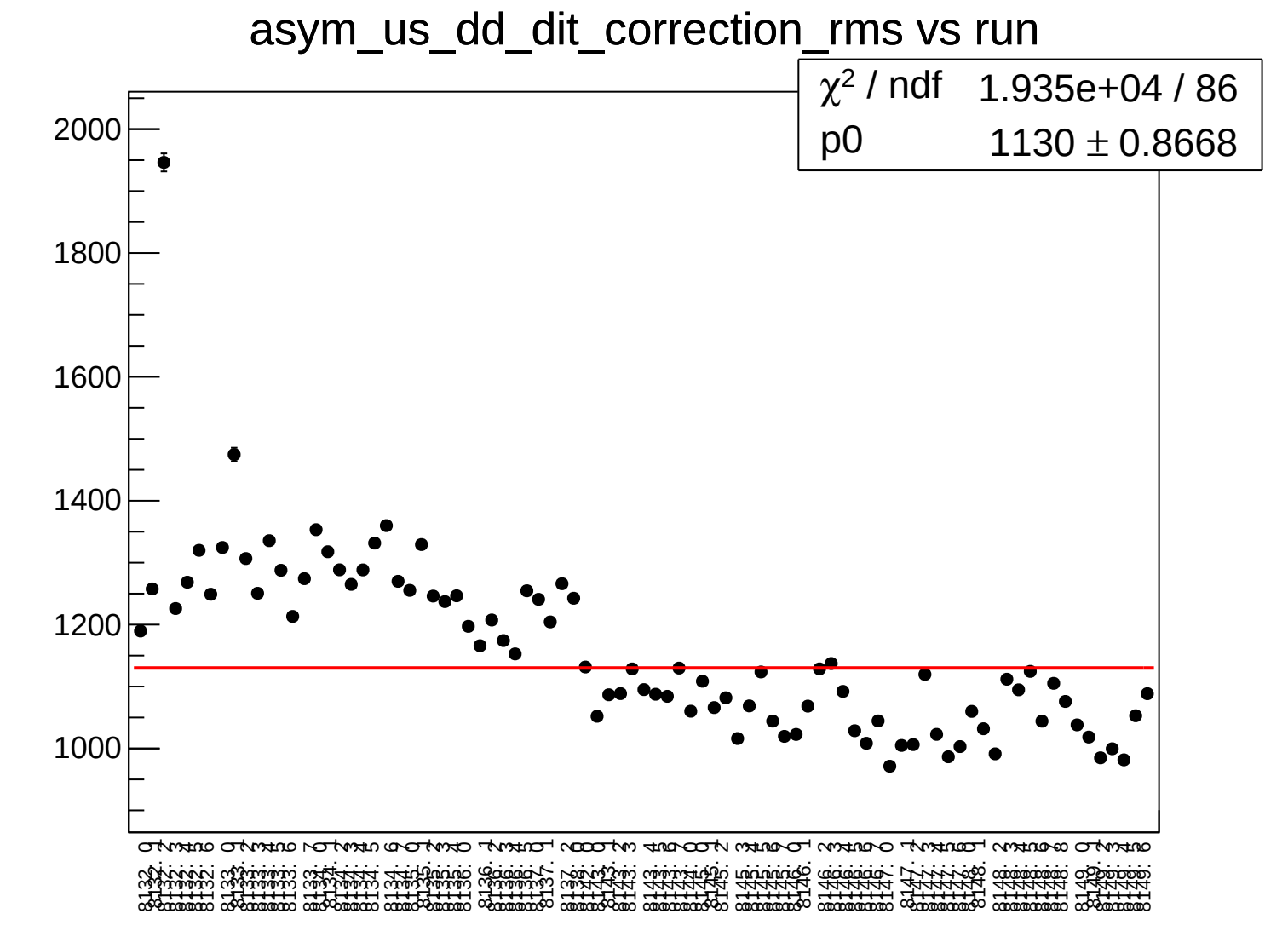

dit_asym_us_dd_mean vs run
χ² / ndf 90.68 / 86
p0 −246.8 ± 834.8
pull
Entries 87
Mean 1143
Std Dev 0

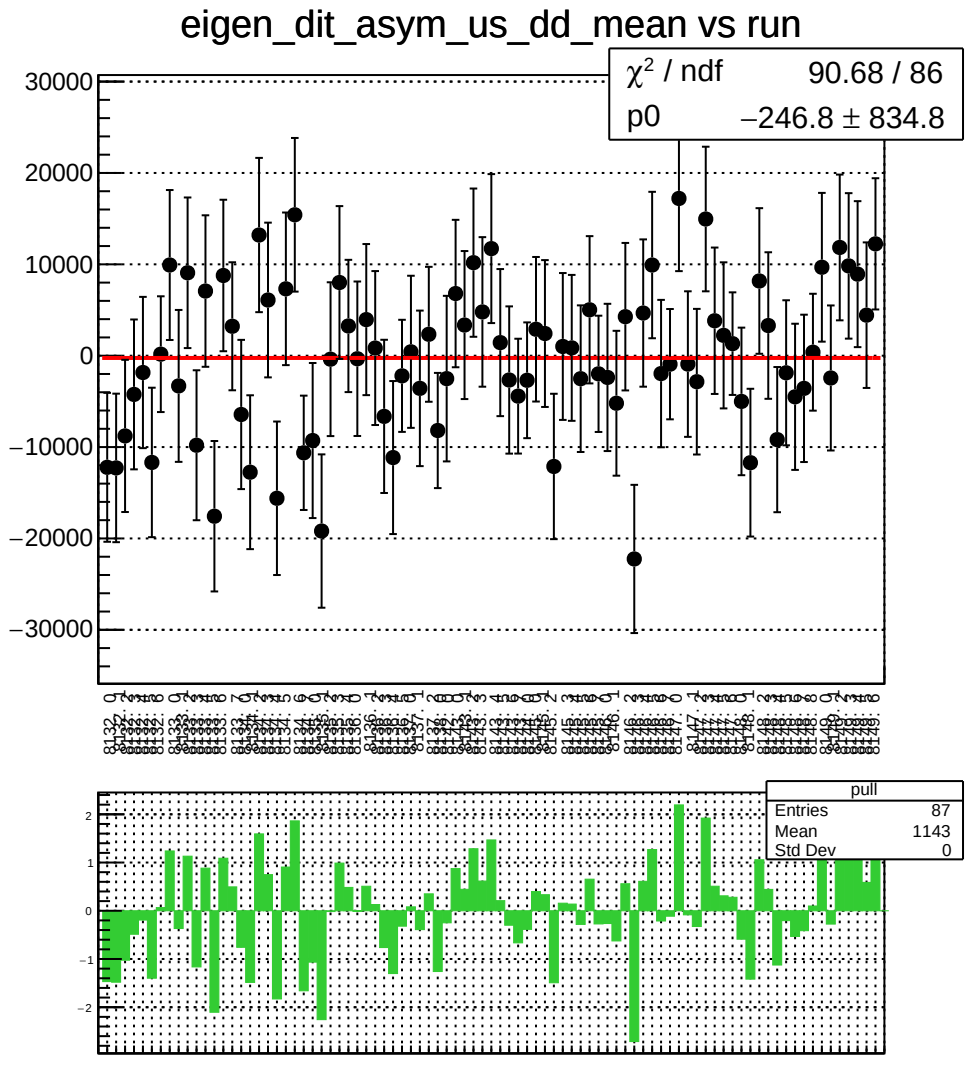

pull1D
Entries 87
Mean 0.005968
Std Dev 1.021

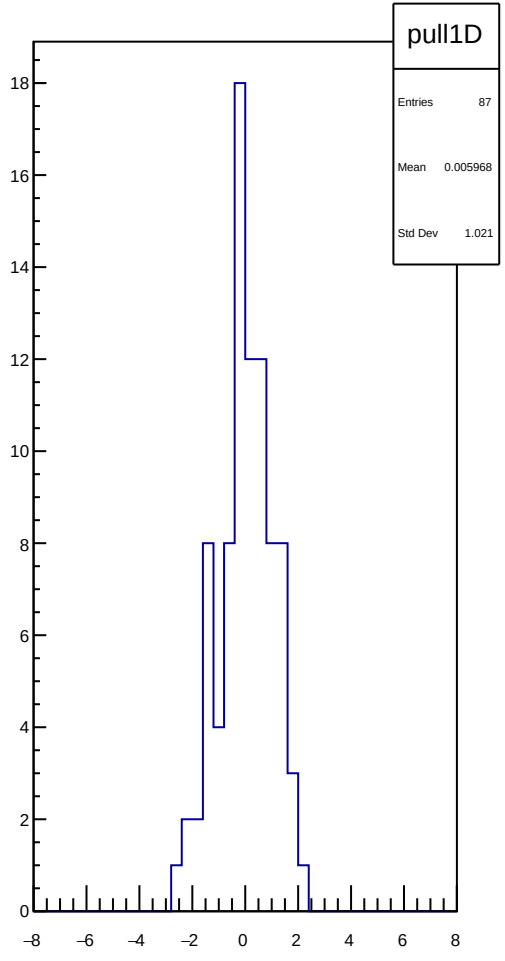

dit_asym_us_dd_rms vs run
χ^2 / ndf 805.2 / 86
p0 773.7 ± 0.5903
820
810
800
790
780
770
760
750
740

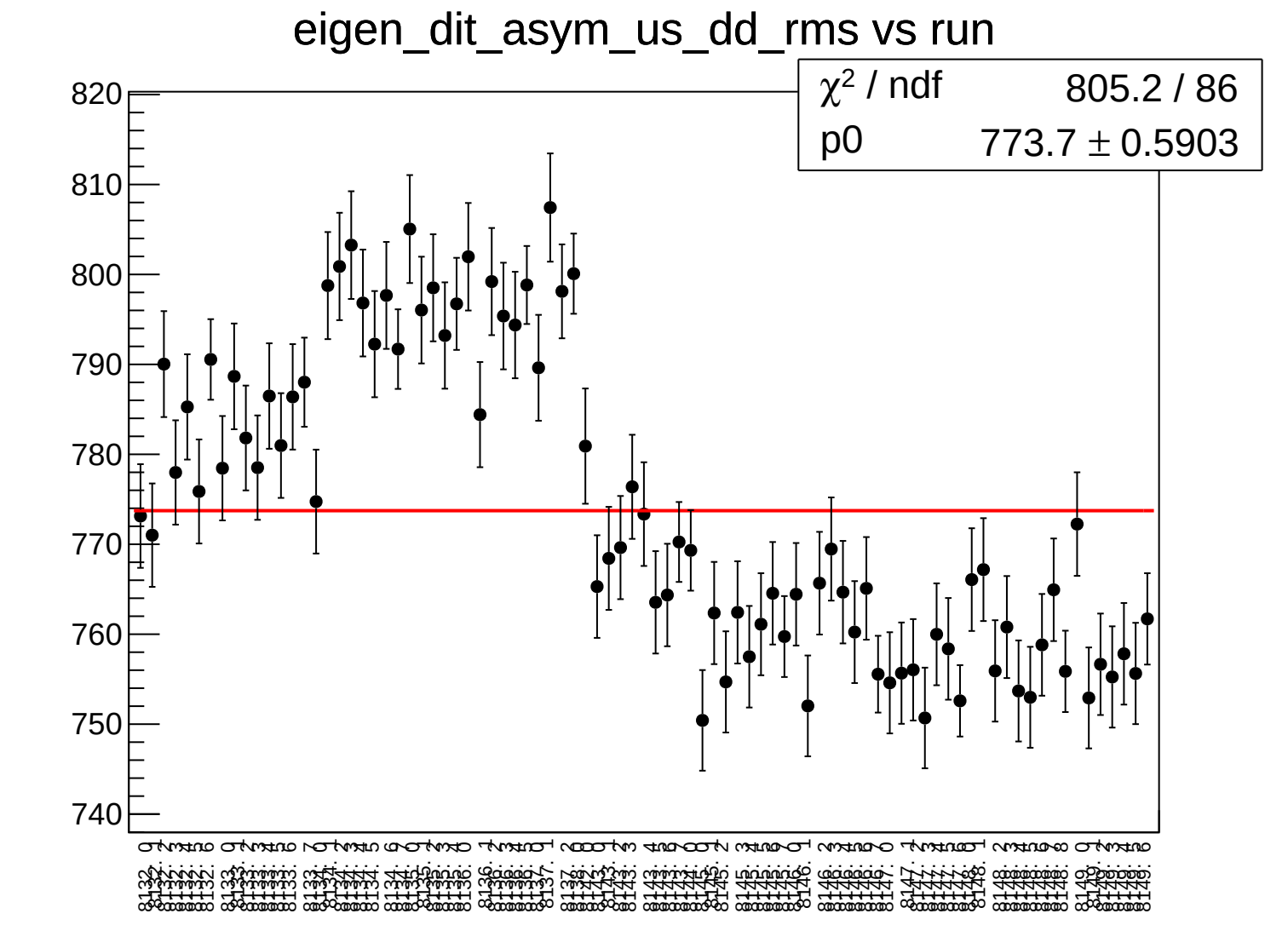

asym_us_dd_dit_correction_mean vs run
χ² / ndf 88.57 / 86
p0 −1289 ± 1226
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −270.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

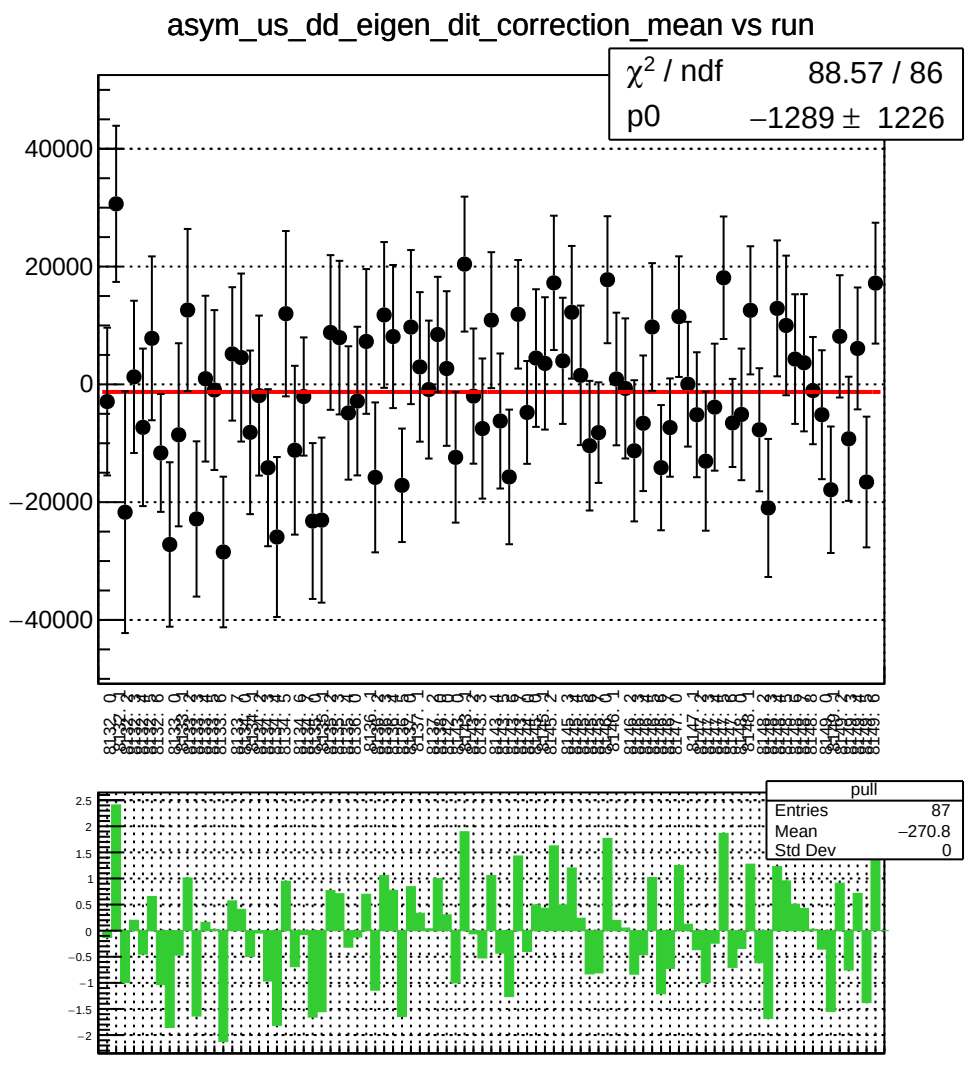

pull1D
Entries 87
Mean −0.009756
Std Dev 1.009
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

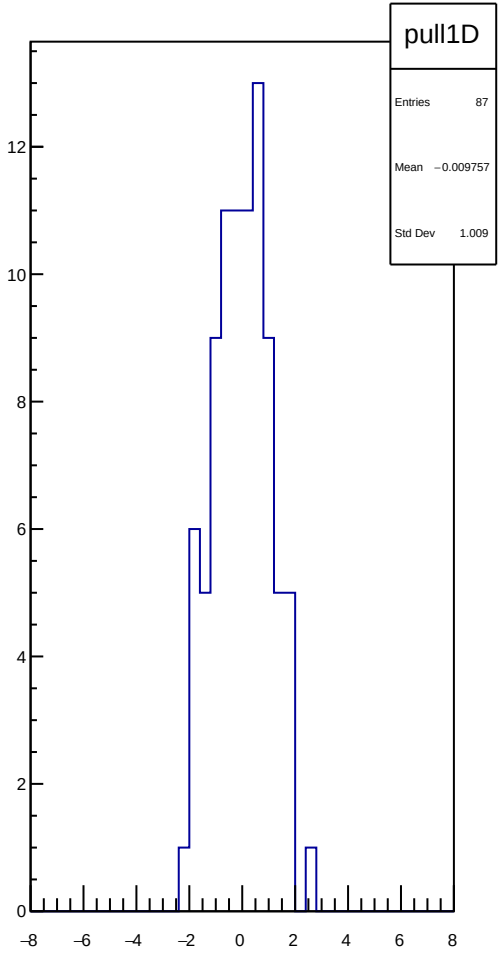

asym_us_dd_dit_correction_rms vs run
χ² / ndf 1.935e+04 / 86
p0 1130 ± 0.8668
2000
1800
1600
1400
1200
1000

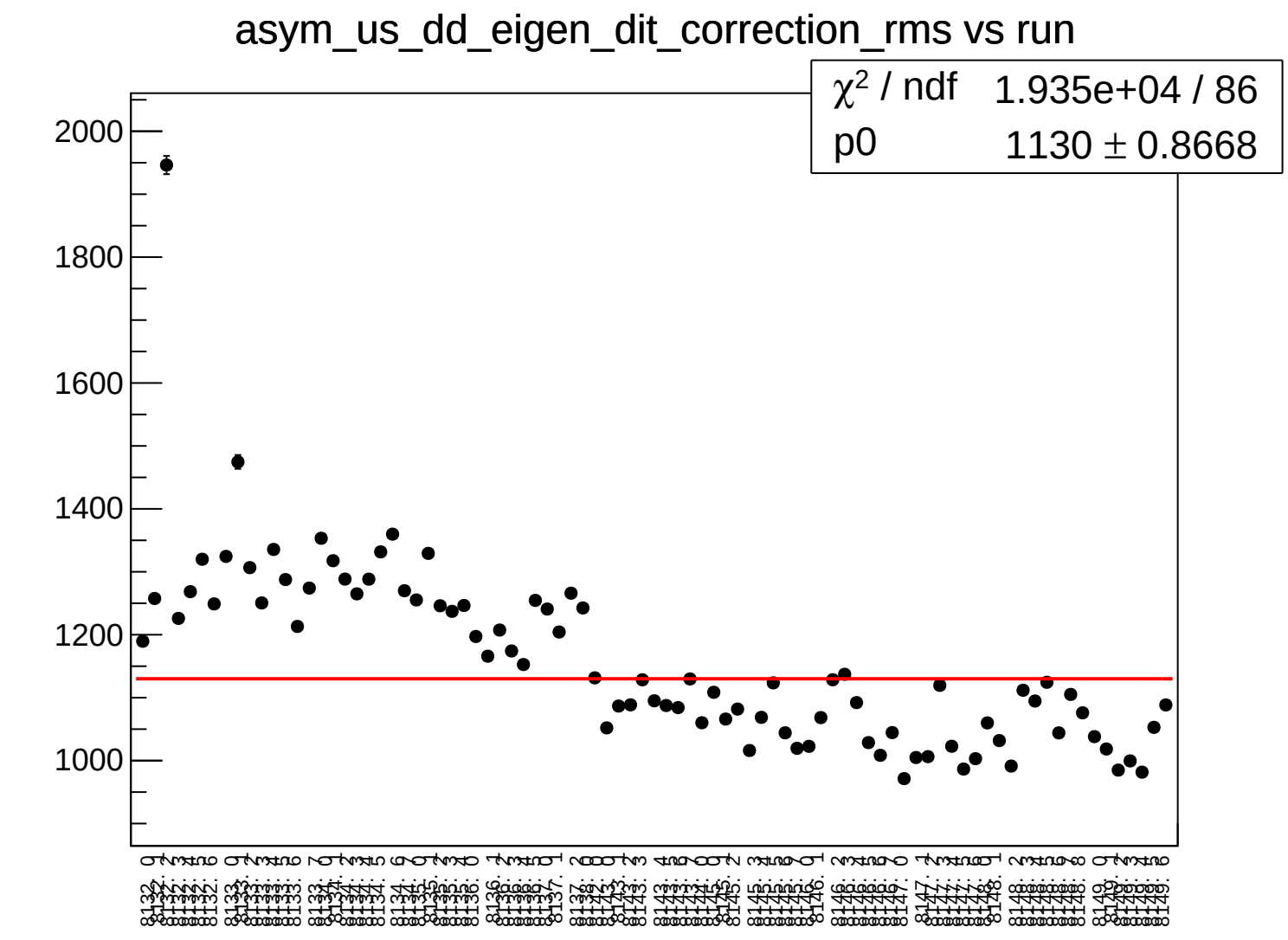

eigen_dit_asym_us_dd_mean vs run
χ² / ndf 90.68 / 86
p0 −246.8 ± 834.8
pull
Entries 87
Mean 1143
Std Dev 0

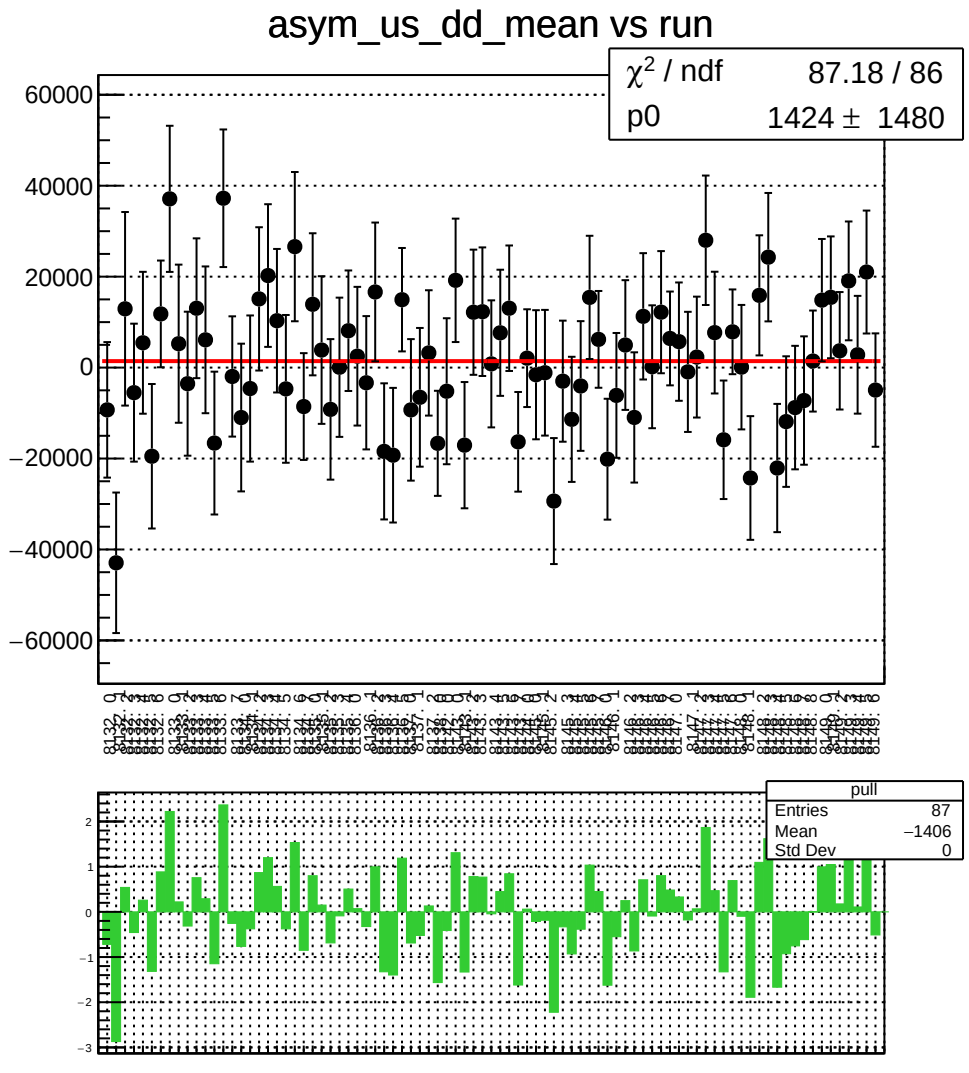

pull1D
Entries 87
Mean 0.005968
Std Dev 1.021

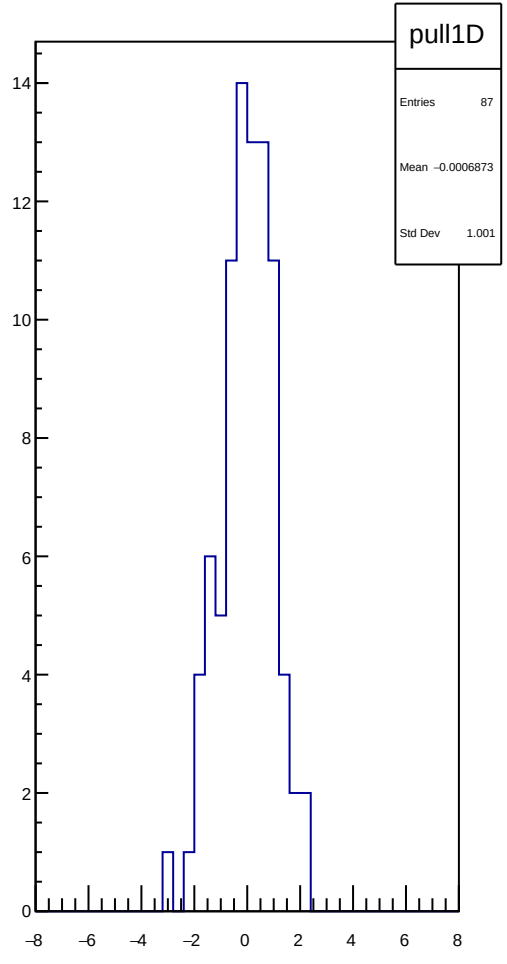

eigen_dit_asym_us_dd_rms vs run
χ^2 / ndf 805.2 / 86
p0 773.7 ± 0.5903
820
810
800
790
780
770
760
750
740

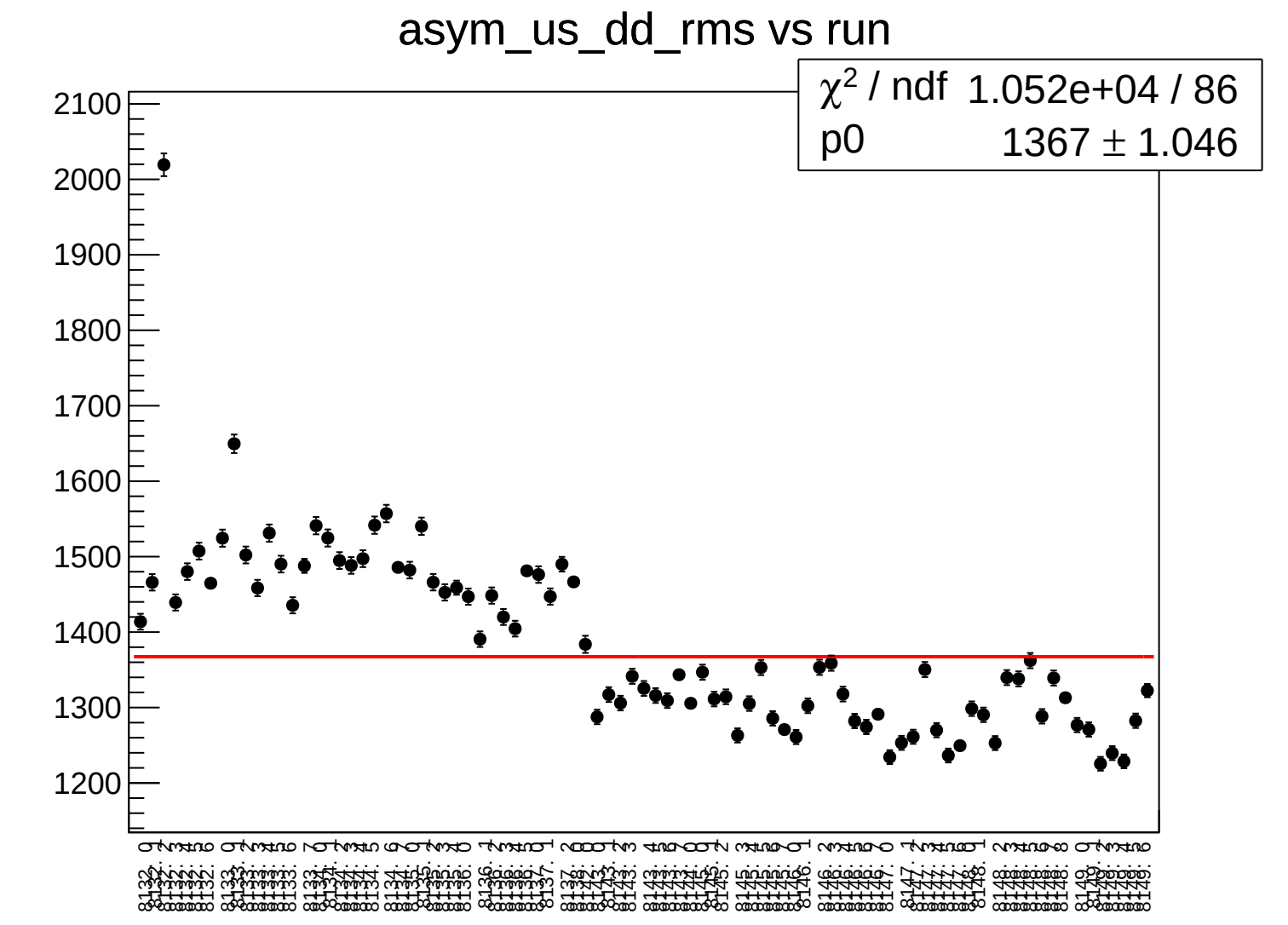

asym_us_dd_eigen_dit_correction_mean vs run
χ² / ndf 88.57 / 86
p0 −1289 ± 1226
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −270.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

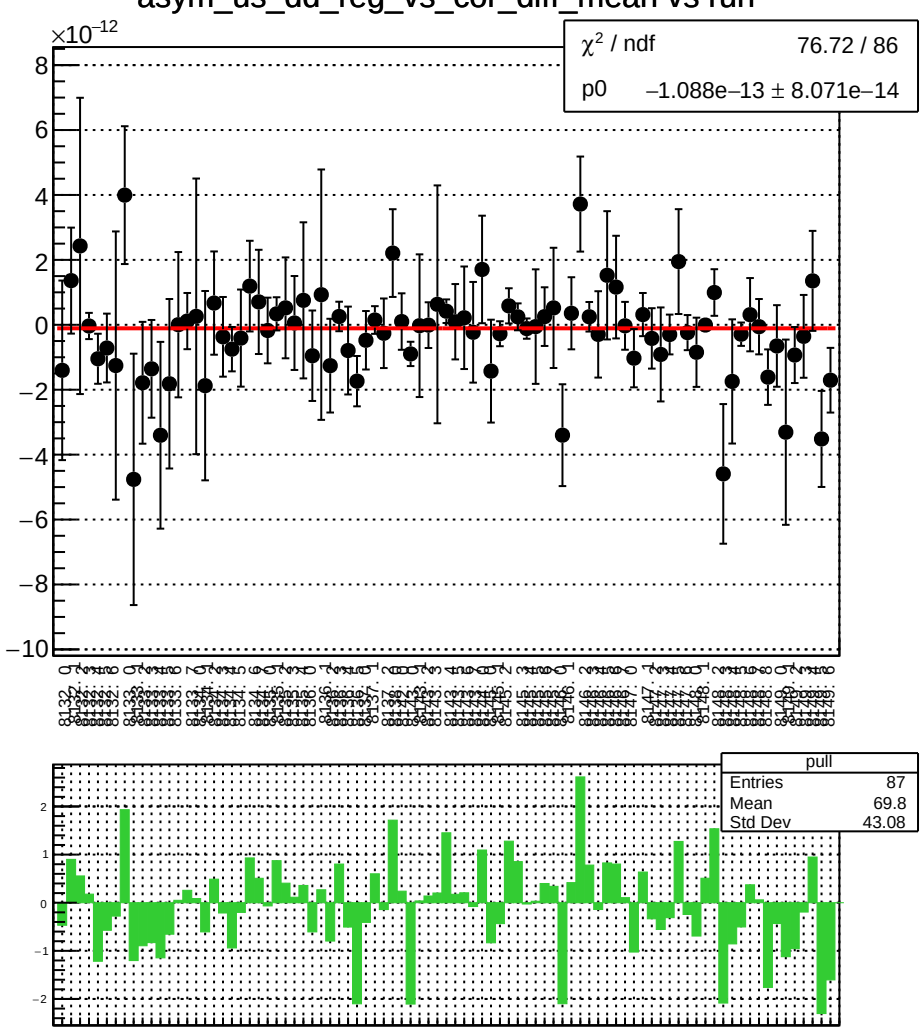

pull1D
Entries 87
Mean −0.009757
Std Dev 1.009
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

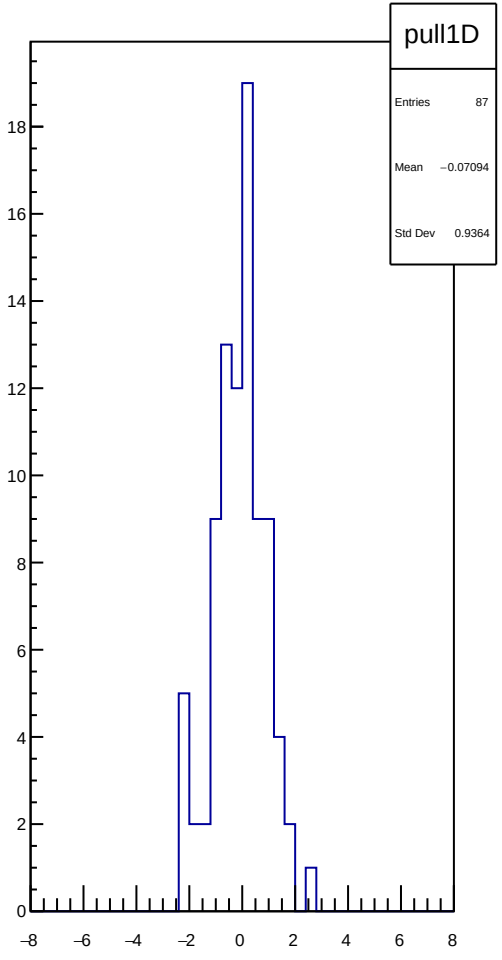

asym_us_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.935e+04 / 86
p0 1130 ± 0.8668
2000
1800
1600
1400
1200
1000

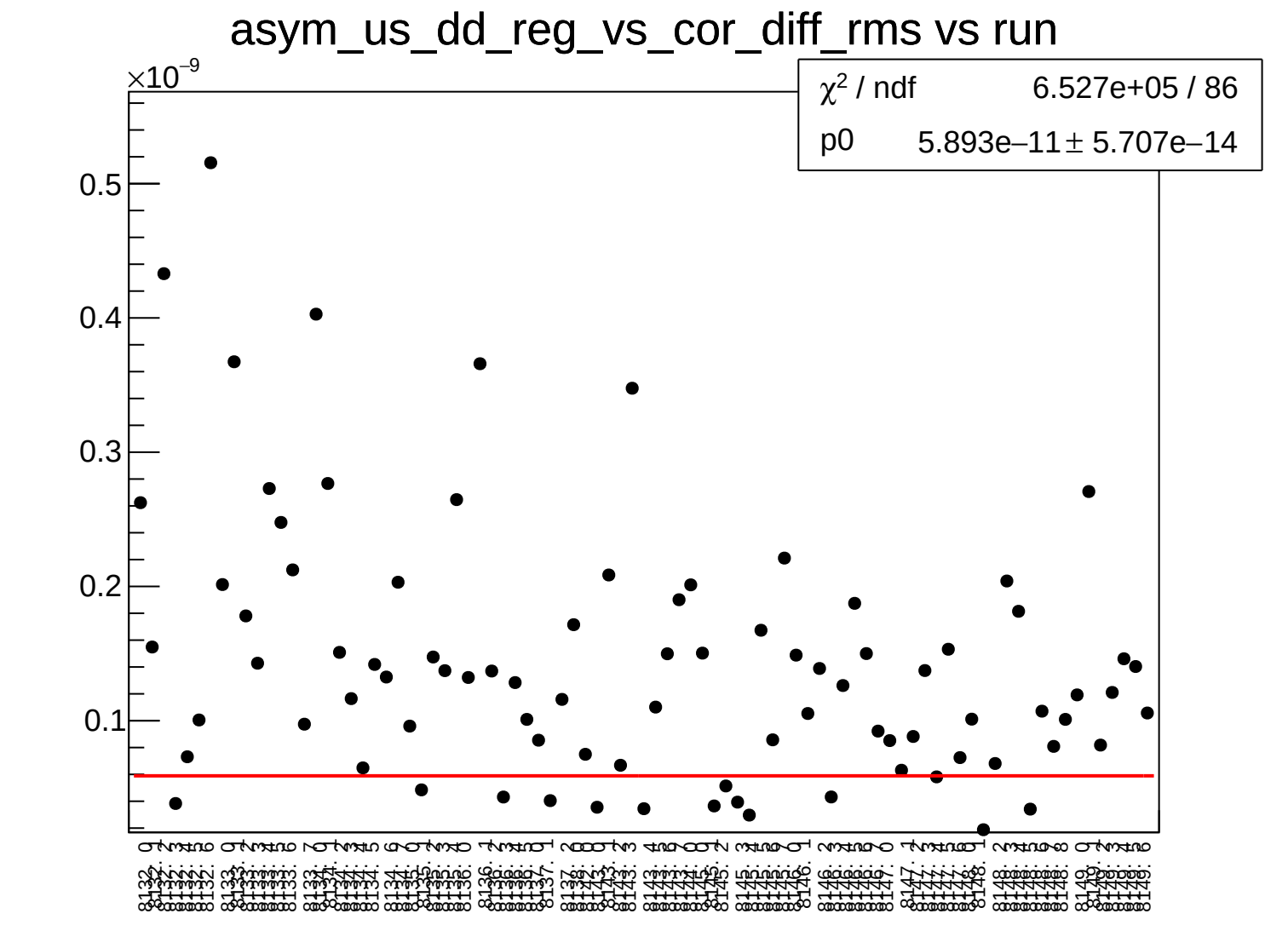

asym_us_dd_mean vs run
χ² / ndf 87.18 / 86
p0 1424 ± 1480
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −1406
Std Dev 0
2
1
0
−1
−2
−3

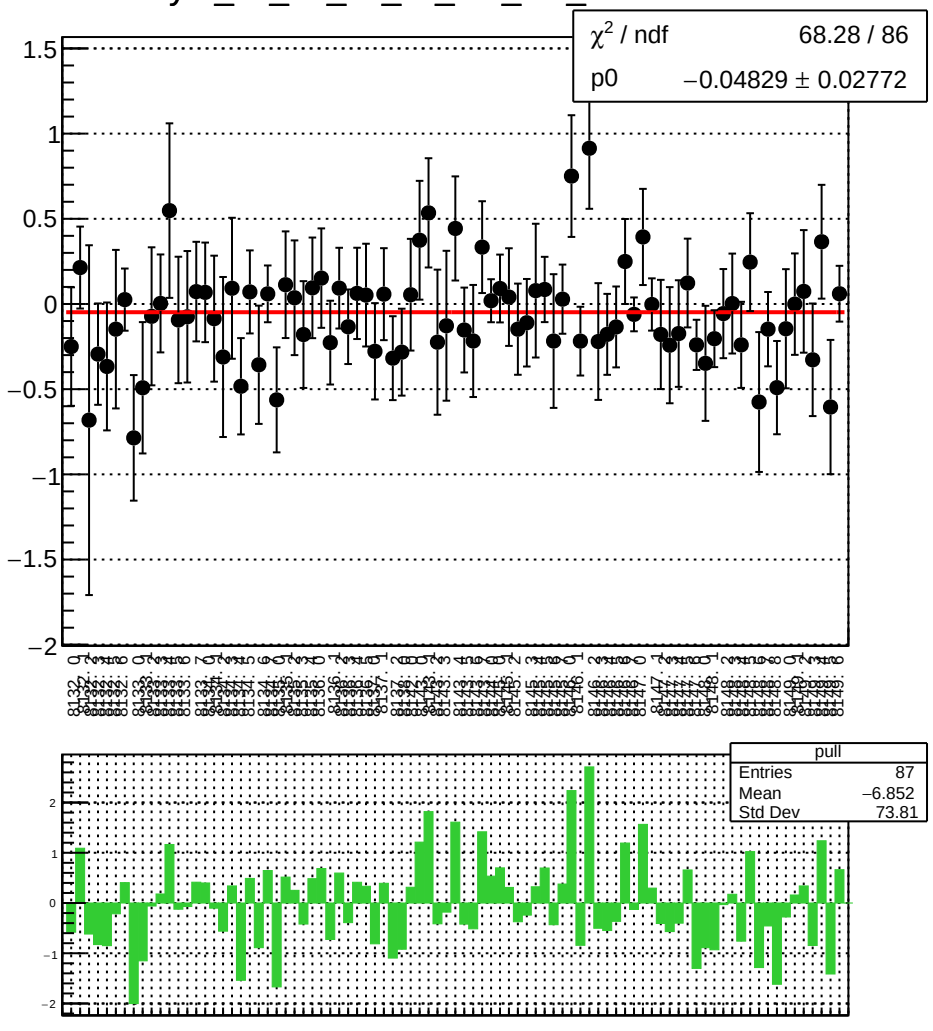

pull1D
Entries 87
Mean −0.0006873
Std Dev 1.001
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

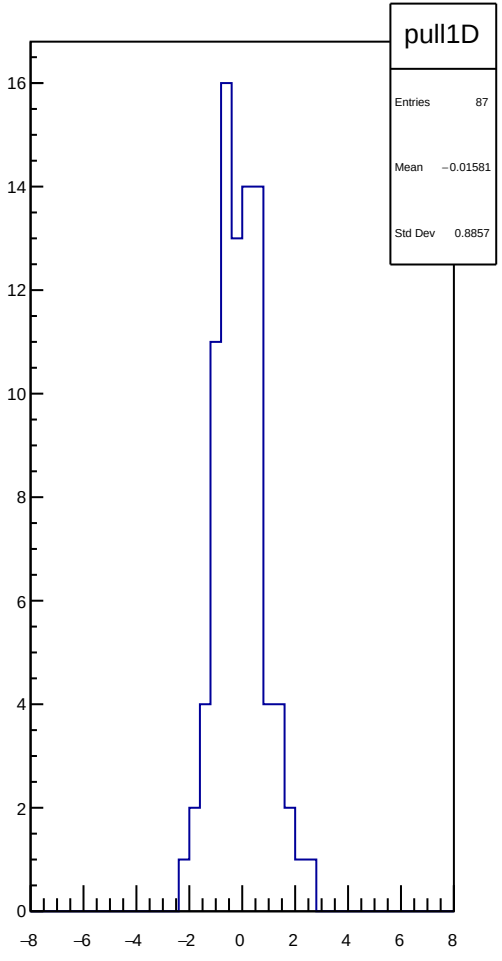

asym_us_dd_rms vs run
χ² / ndf 1.052e+04 / 86
p0 1367 ± 1.046
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200

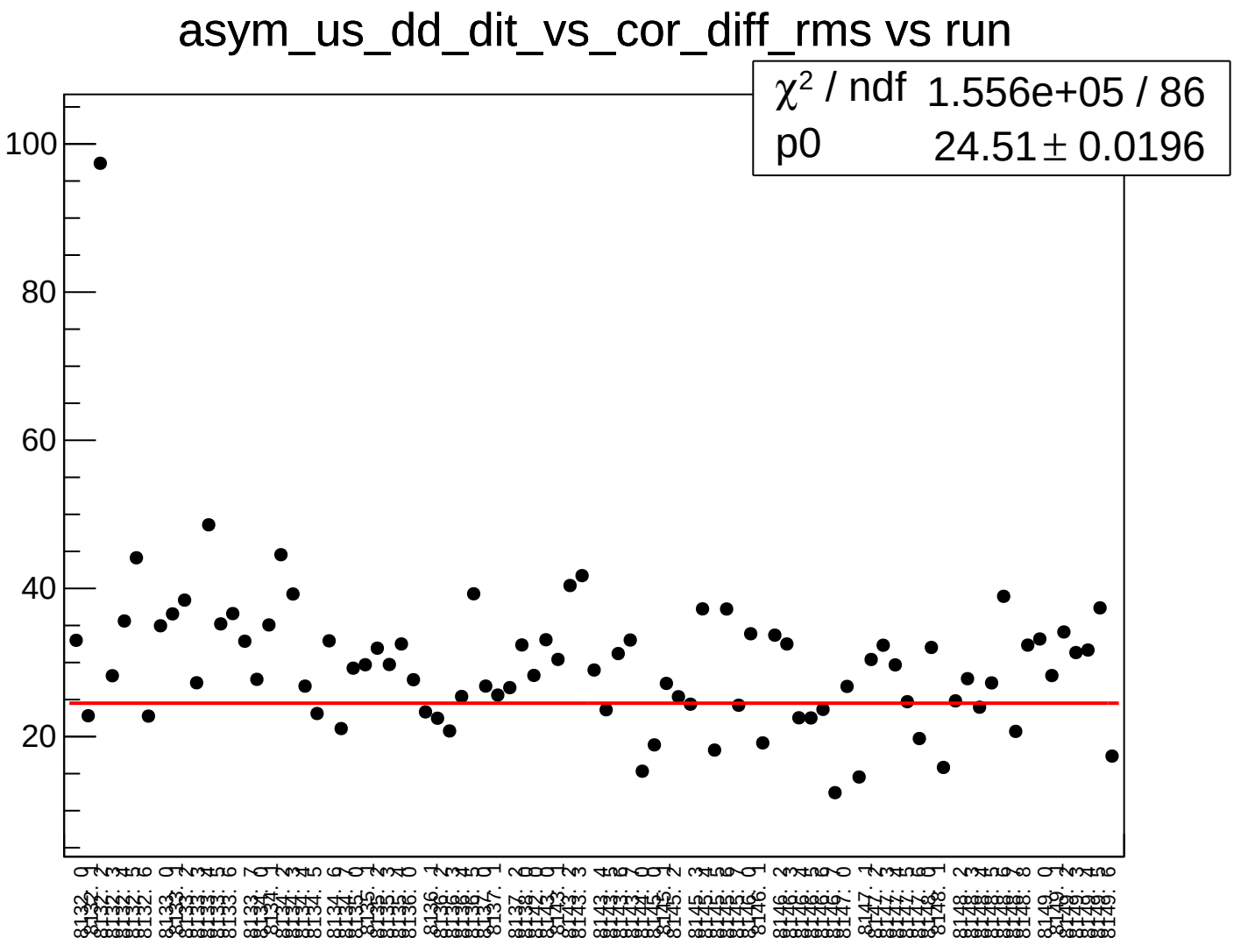

asym_us_dd_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.72 / 86
p0 −1.088e−13 ± 8.071e−14
pull
Entries 87
Mean 69.8
Std Dev 43.08

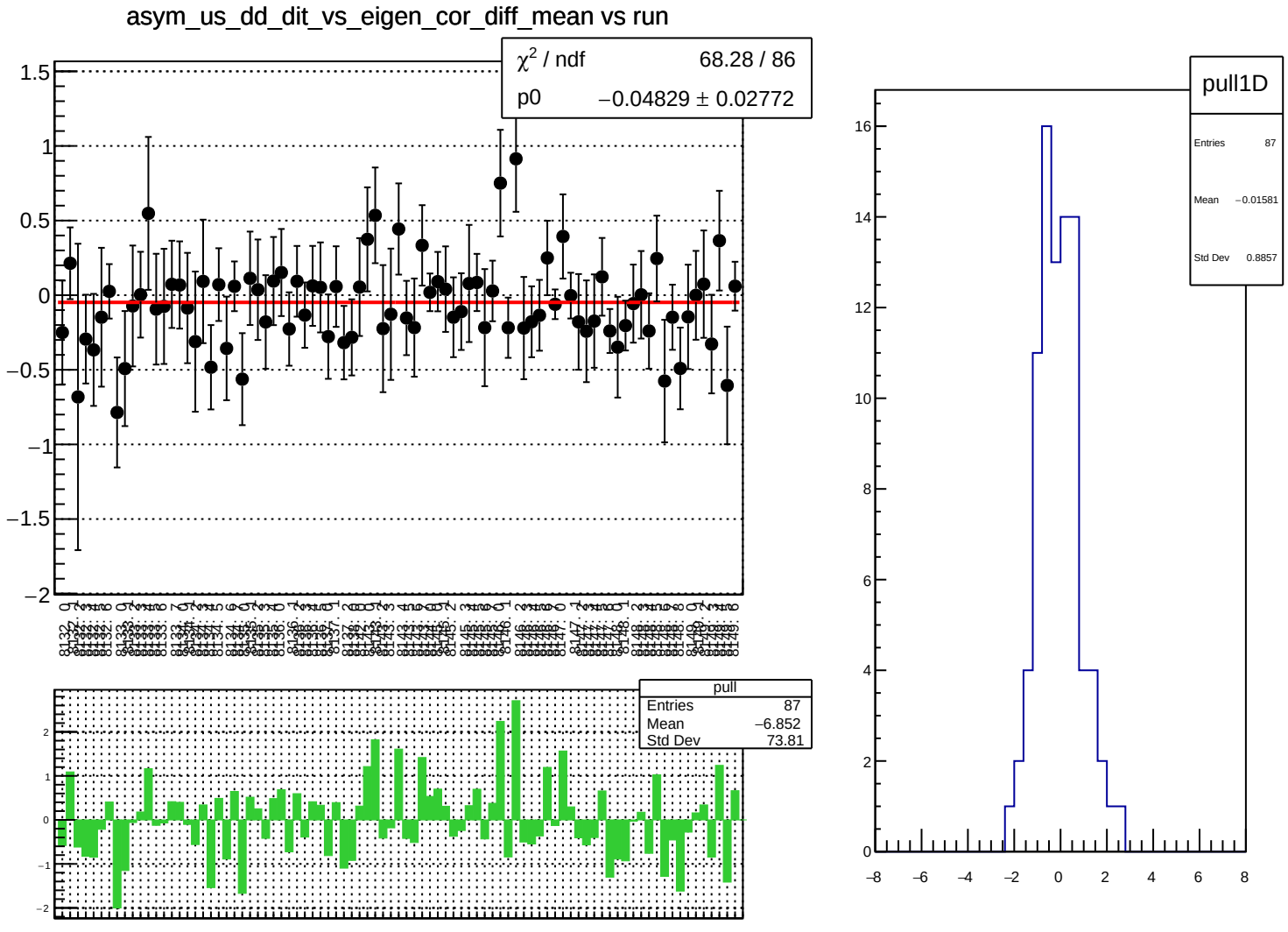

pull1D
Entries 87
Mean −0.07094
Std Dev 0.9364

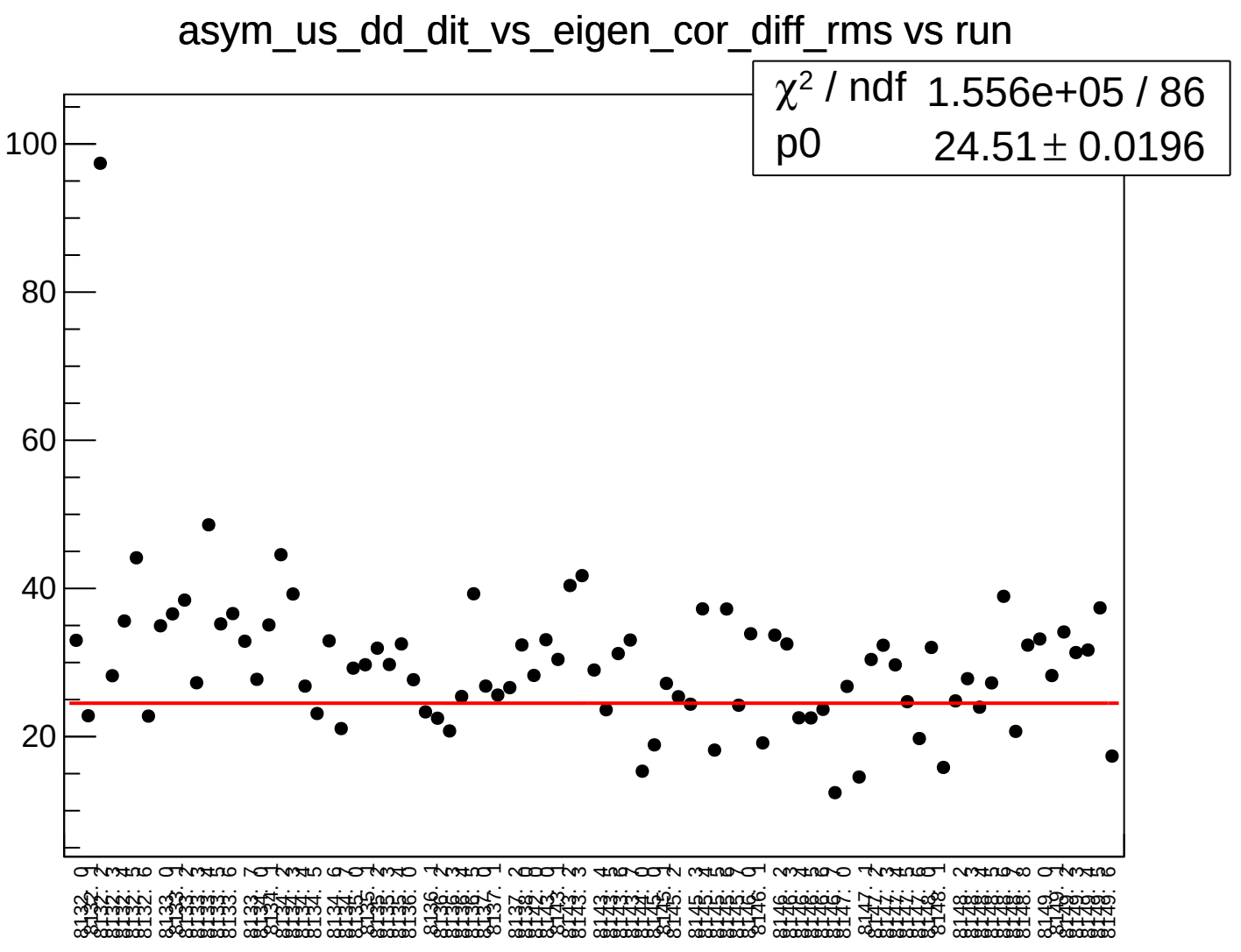

asym_us_dd_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.527e+05 / 86
p0 5.893e−11 ± 5.707e−14
0.5
0.4
0.3
0.2
0.1

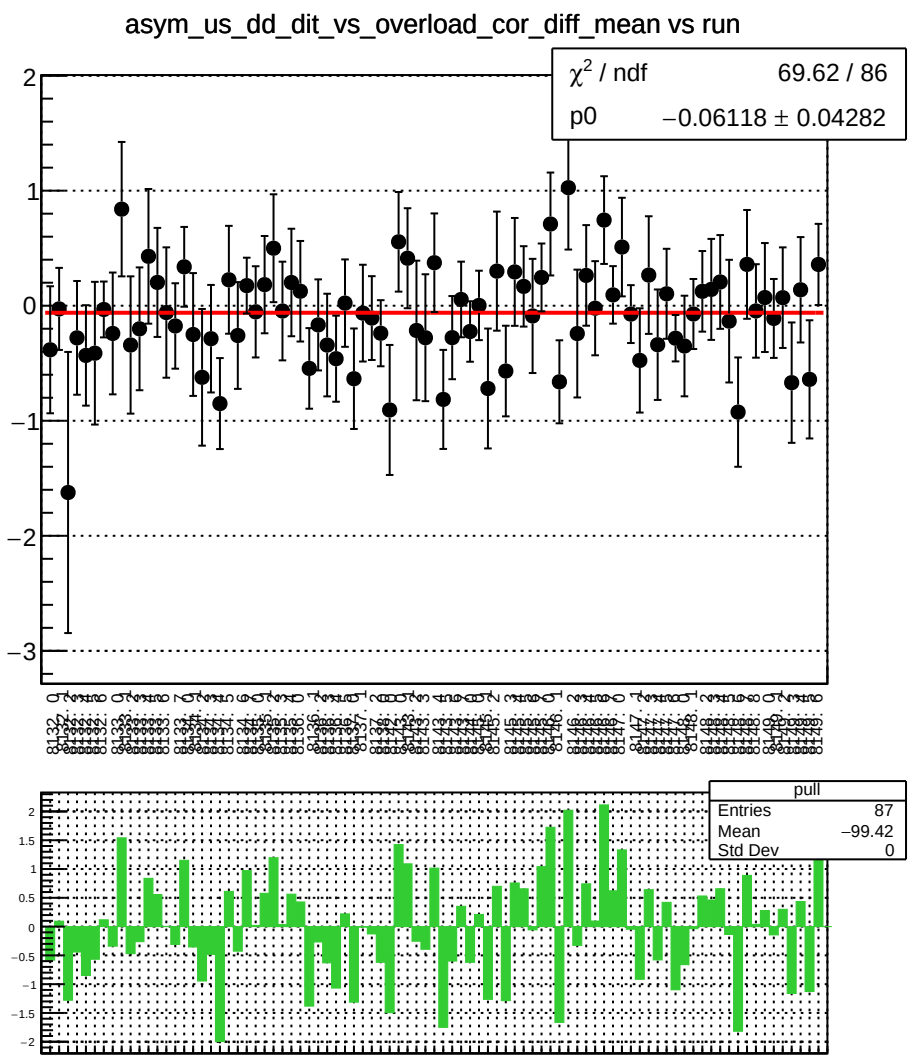

asym_us_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 68.28 / 86
p0 −0.04829 ± 0.02772
pull
Entries 87
Mean −6.852
Std Dev 73.81

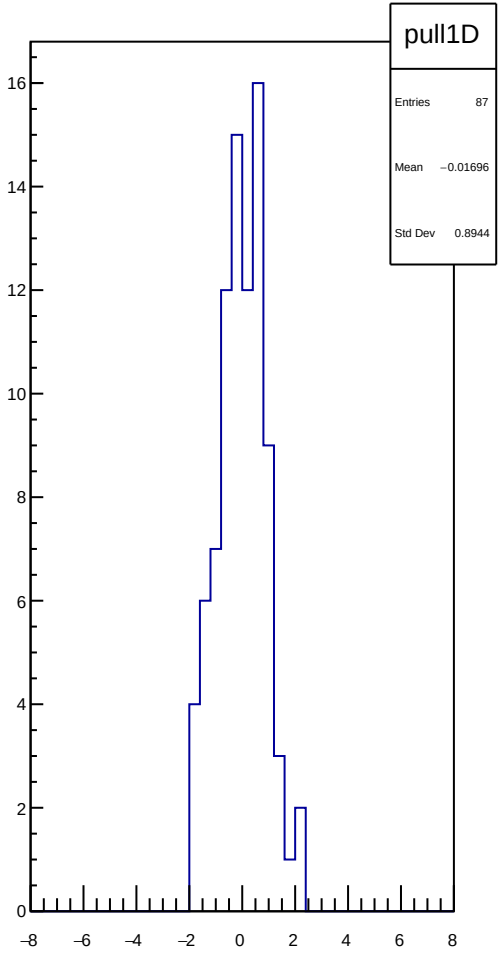

pull1D
Entries 87
Mean −0.01581
Std Dev 0.8857

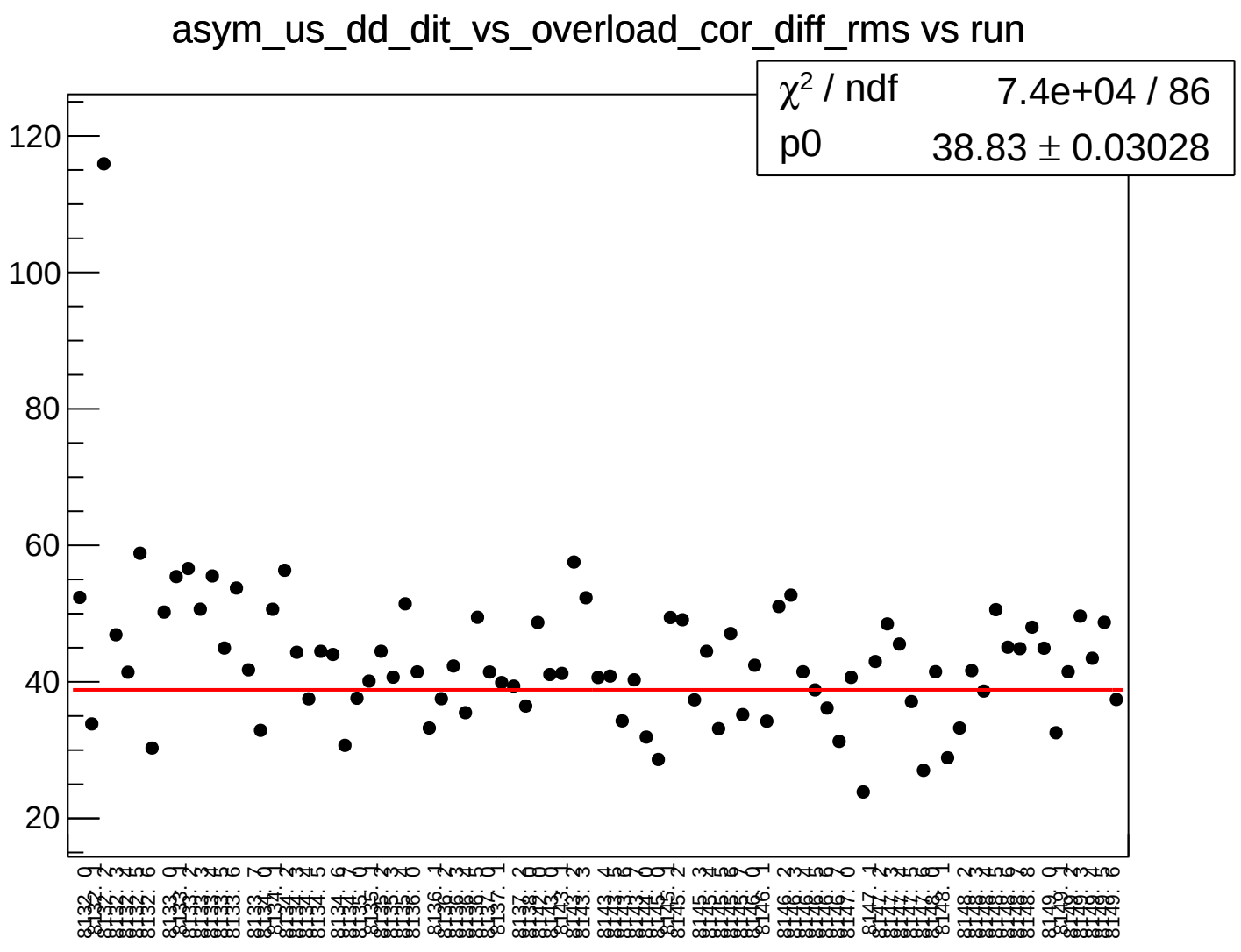

asym_us_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.556e+05 / 86
p0 24.51 ± 0.0196
100
80
60
40
20

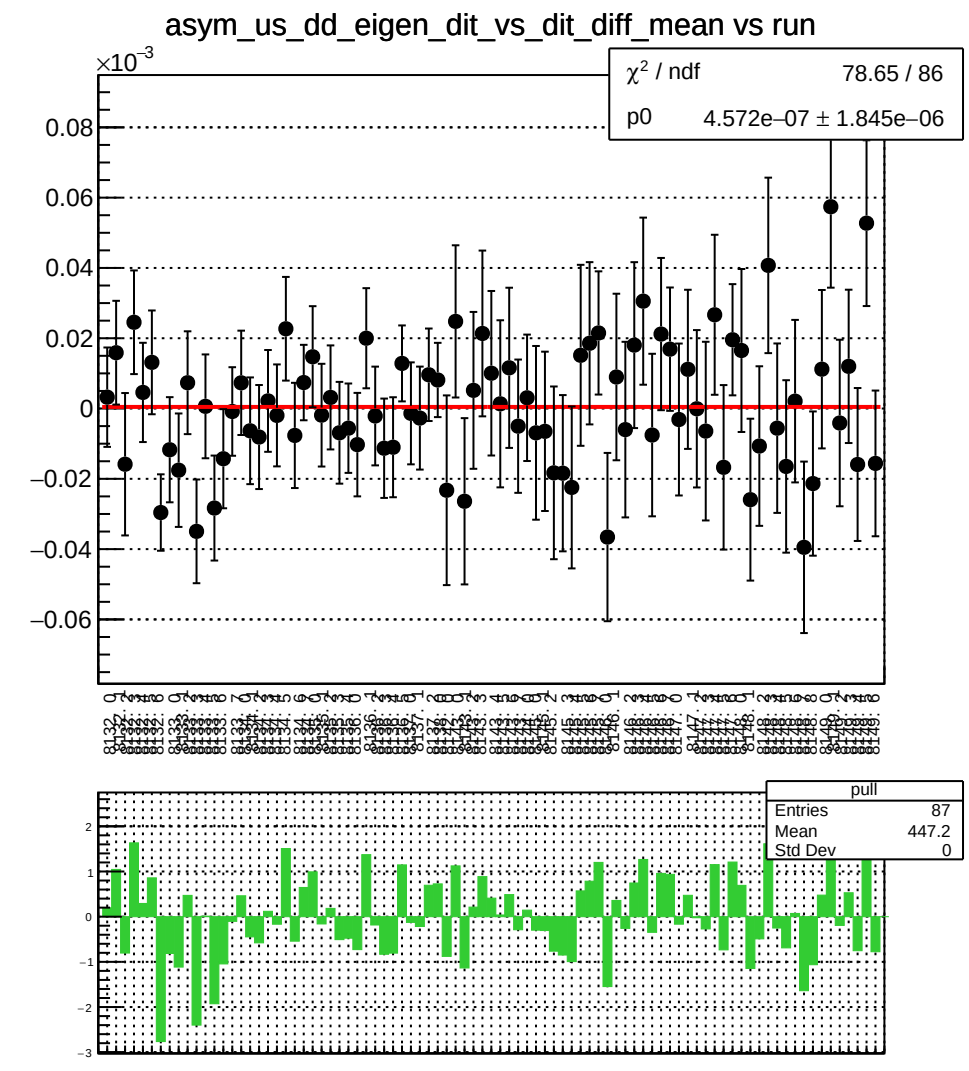

asym_us_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.28 / 86
p0 −0.04829 ± 0.02772
pull
Entries 87
Mean −6.852
Std Dev 73.81
pull1D
Entries 87
Mean −0.01581
Std Dev 0.8857

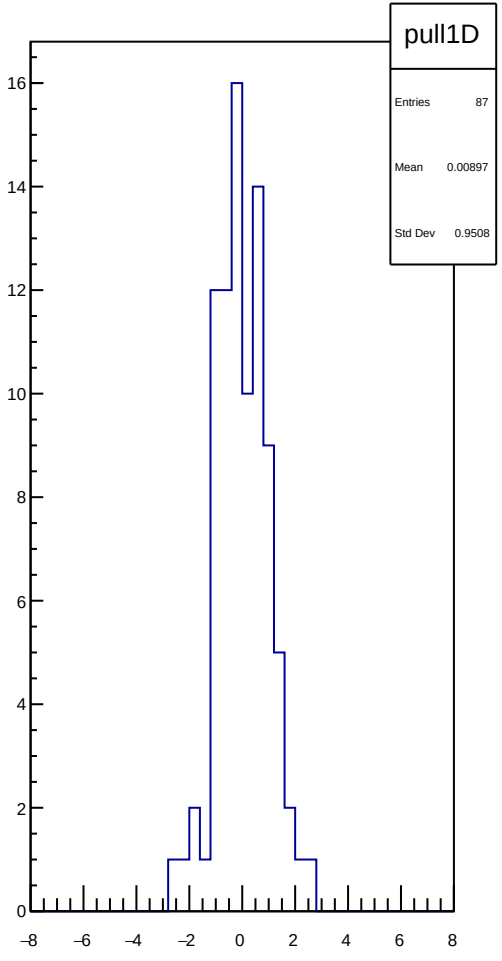

asym_us_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.556e+05 / 86
p0 24.51 ± 0.0196
100
80
60
40
20

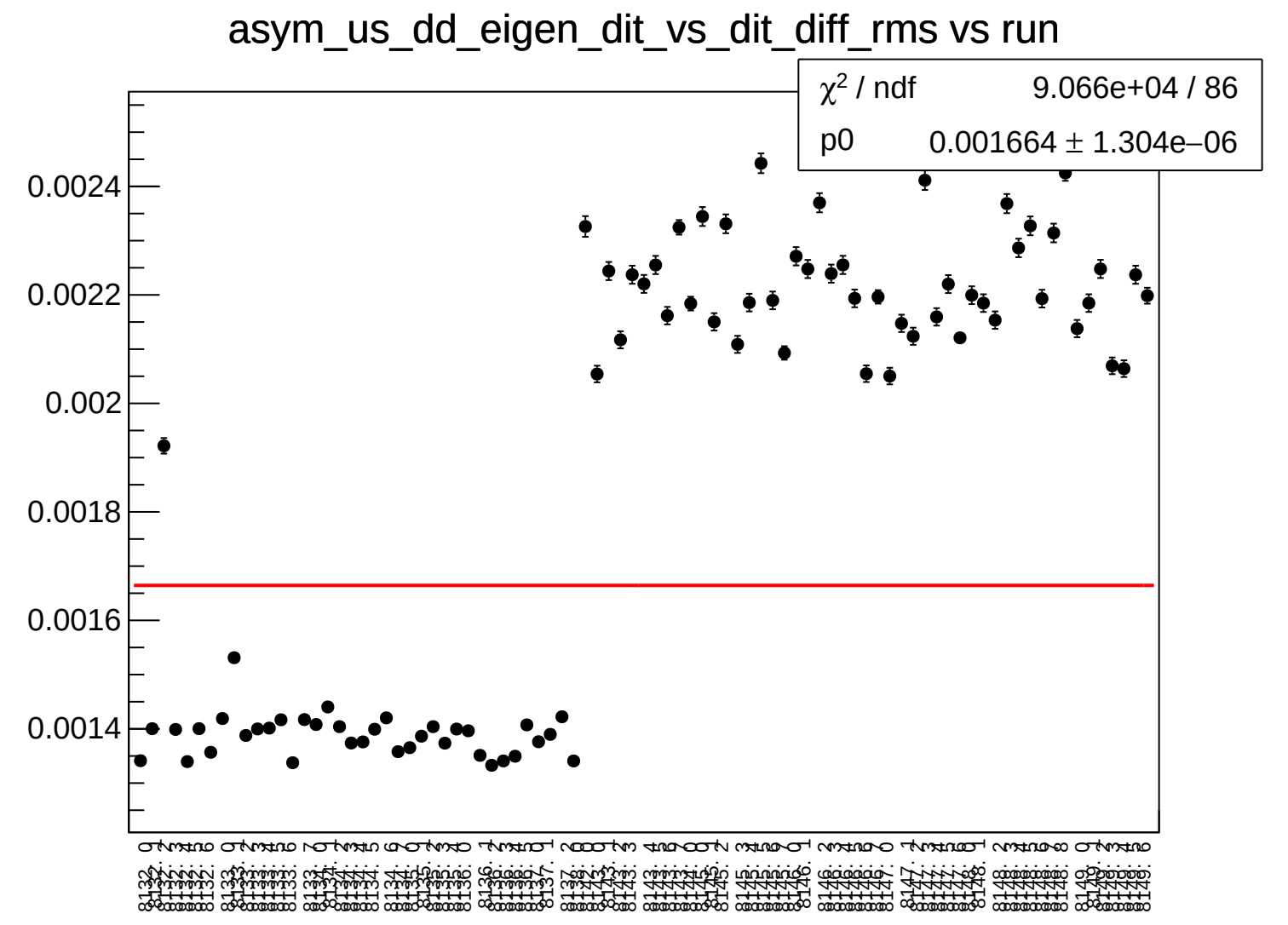

asym_us_dd_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 69.62 / 86
p0 −0.06118 ± 0.04282
pull
Entries 87
Mean −99.42
Std Dev 0

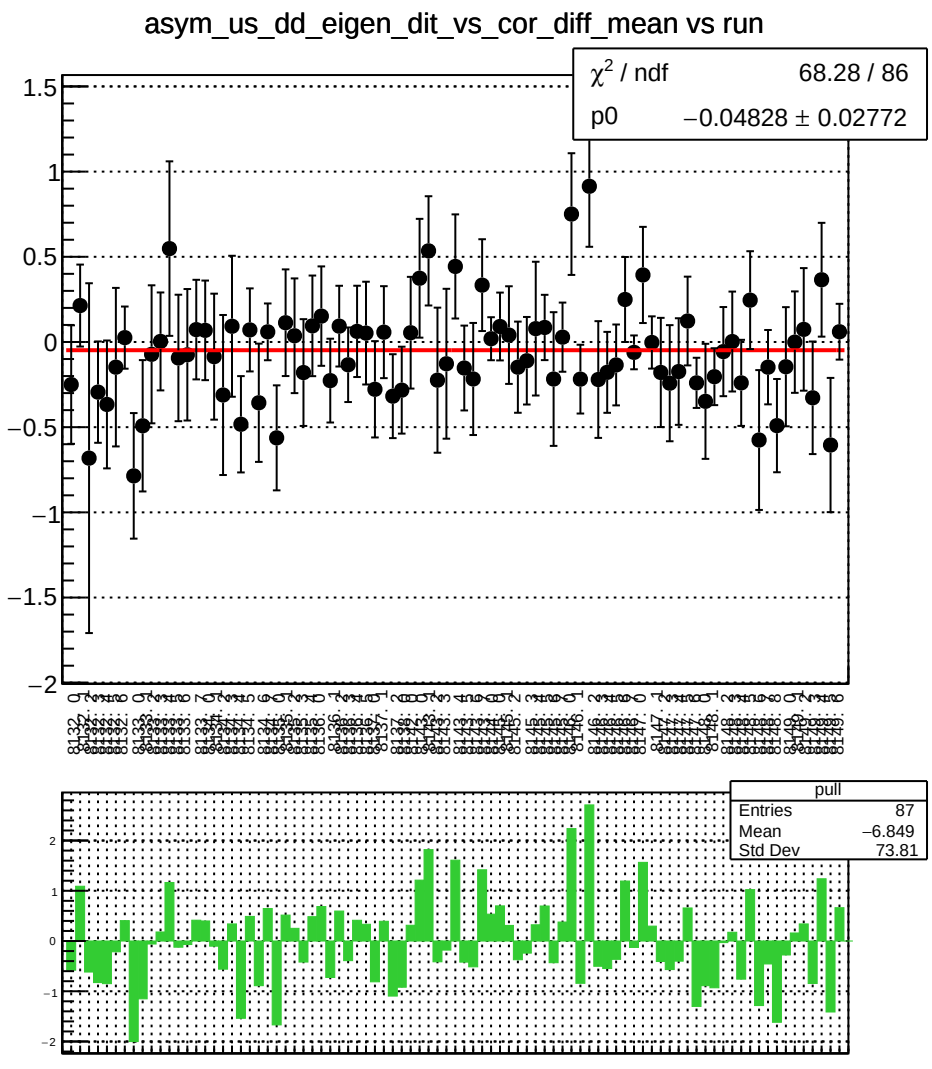

pull1D
Entries 87
Mean −0.01696
Std Dev 0.8944

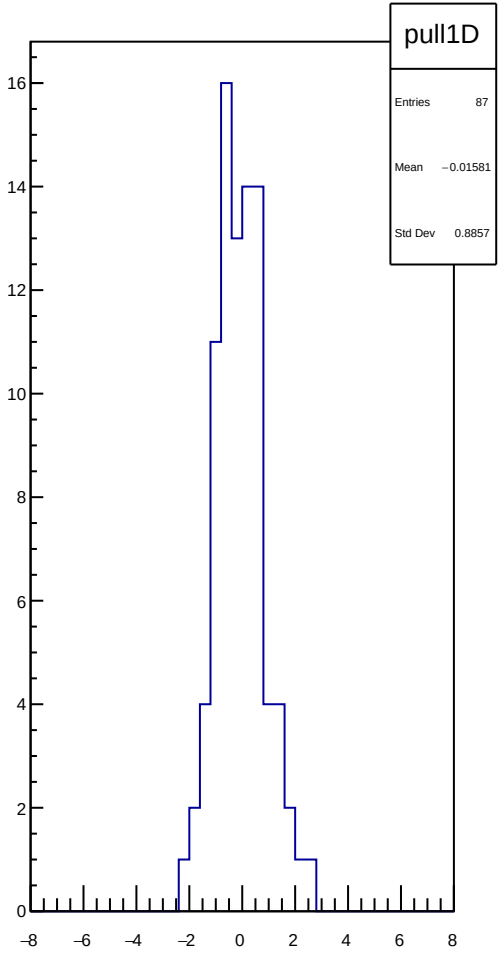

asym_us_dd_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 7.4e+04 / 86
p0 38.83 ± 0.03028
120
100
80
60
40
20

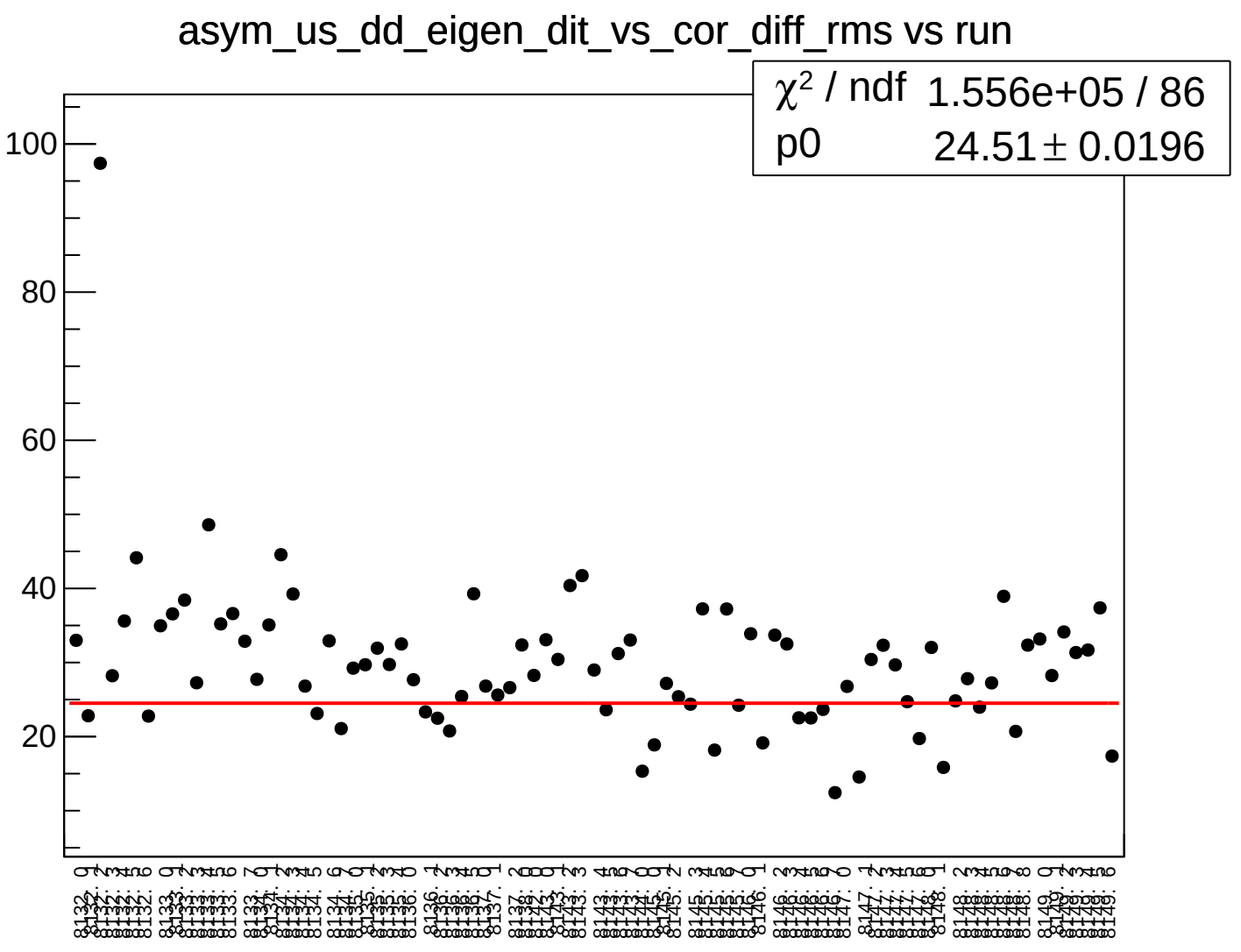

asym_us_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78.65 / 86
p0 4.572e−07 ± 1.845e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 87
Mean 447.2
Std Dev 0
2
1
0
−1
−2
−3

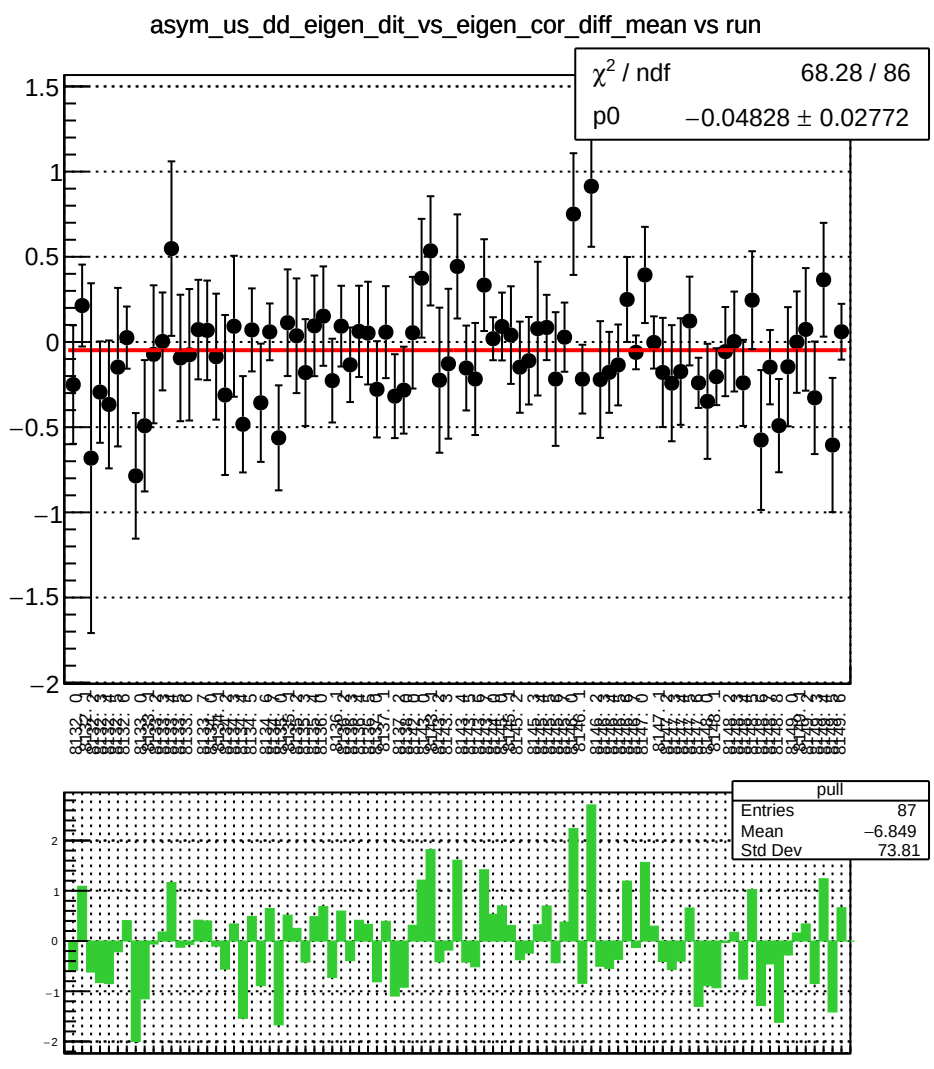

pull1D
Entries 87
Mean 0.00897
Std Dev 0.9508
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

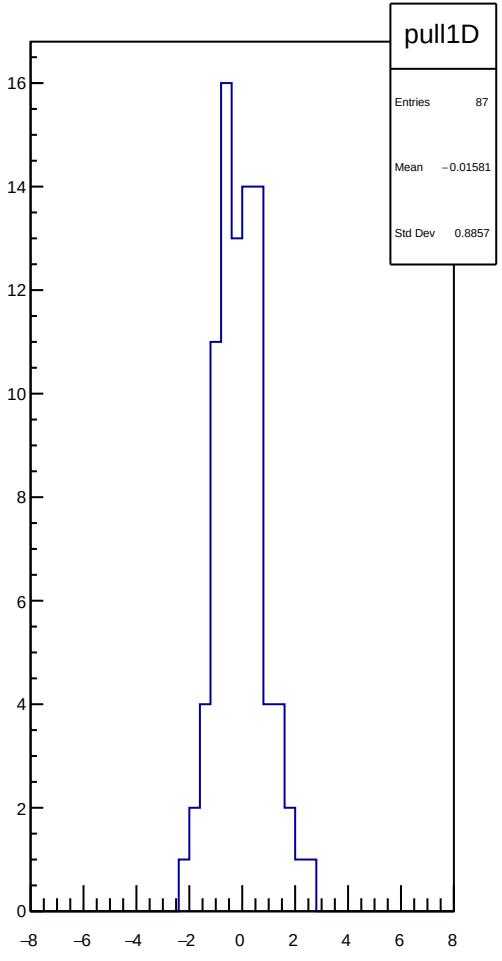

asym_us_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.066e+04 / 86
p0 0.001664 ± 1.304e−06
0.0024
0.0022
0.002
0.0018
0.0016
0.0014

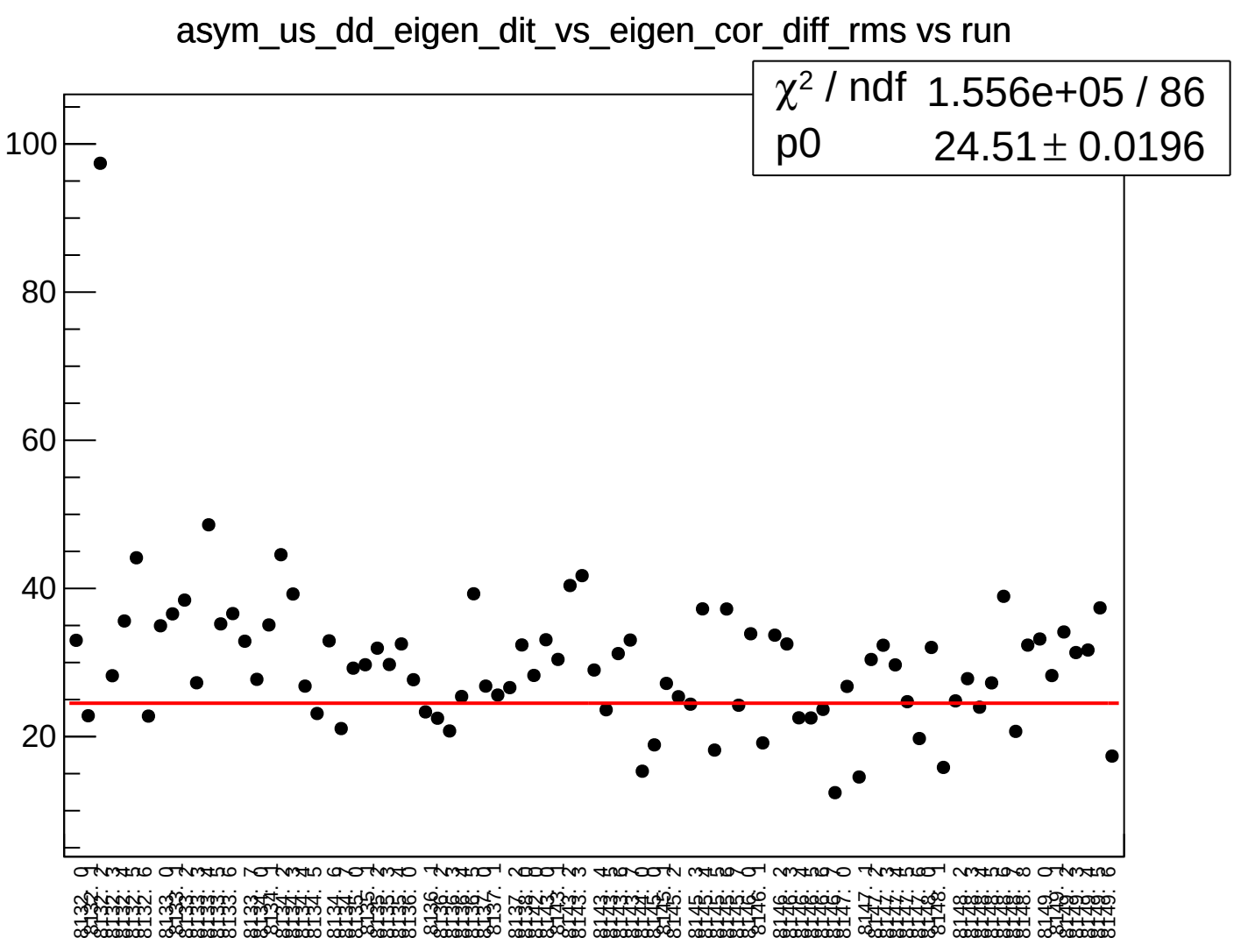

asym_us_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 68.28 / 86
p0 −0.04828 ± 0.02772
pull
Entries 87
Mean −6.849
Std Dev 73.81

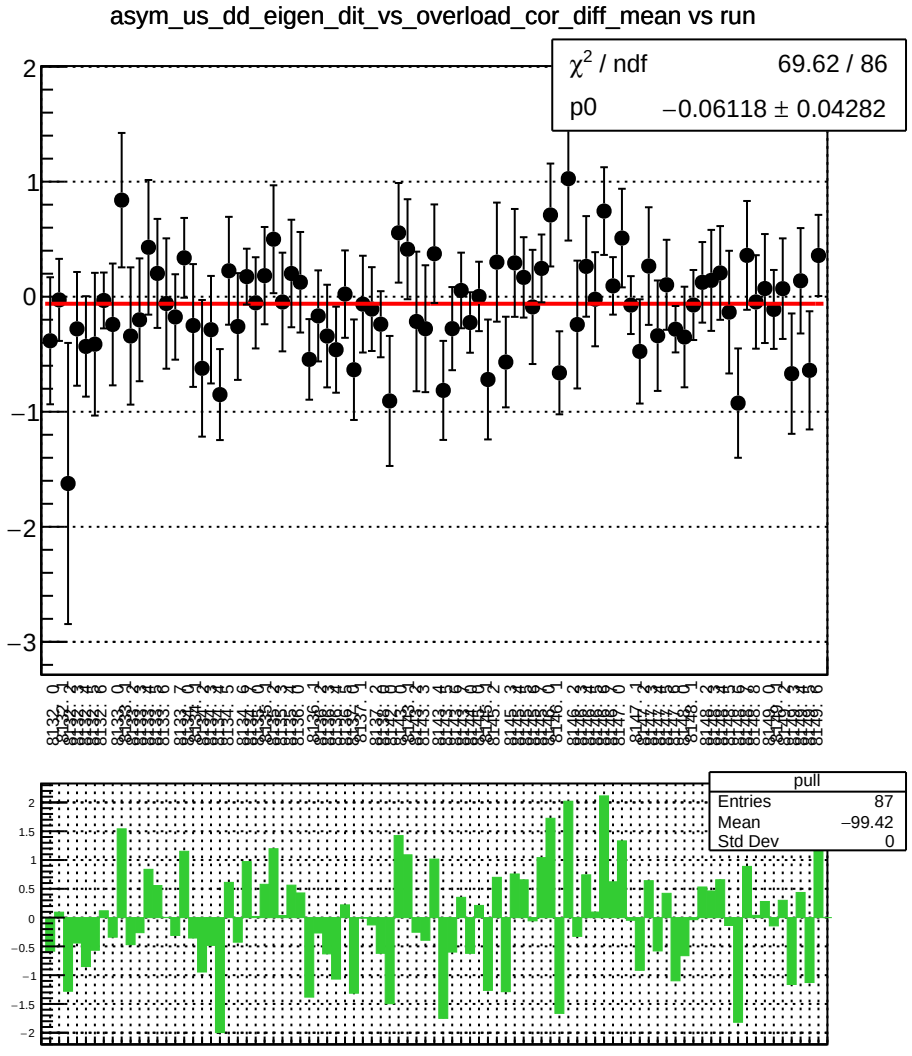

pull1D
Entries 87
Mean −0.01581
Std Dev 0.8857

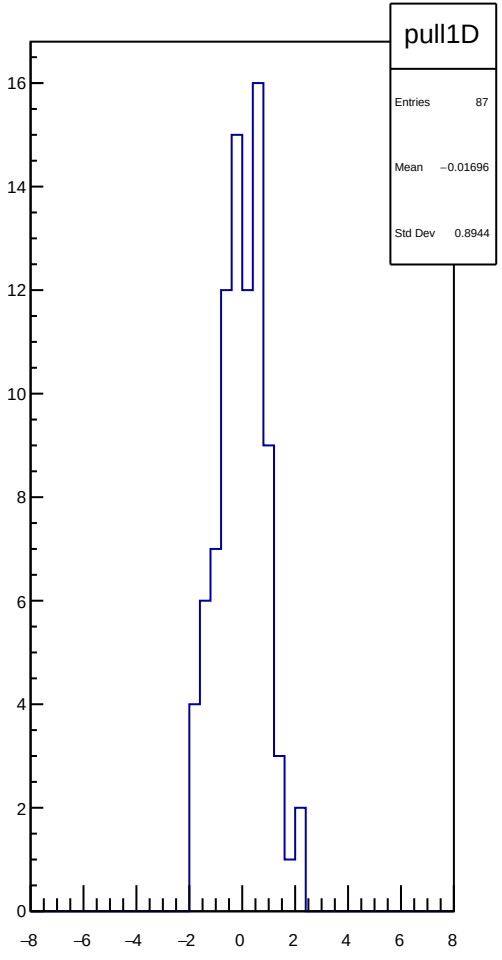

asym_us_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.556e+05 / 86
p0 24.51 ± 0.0196
100
80
60
40
20

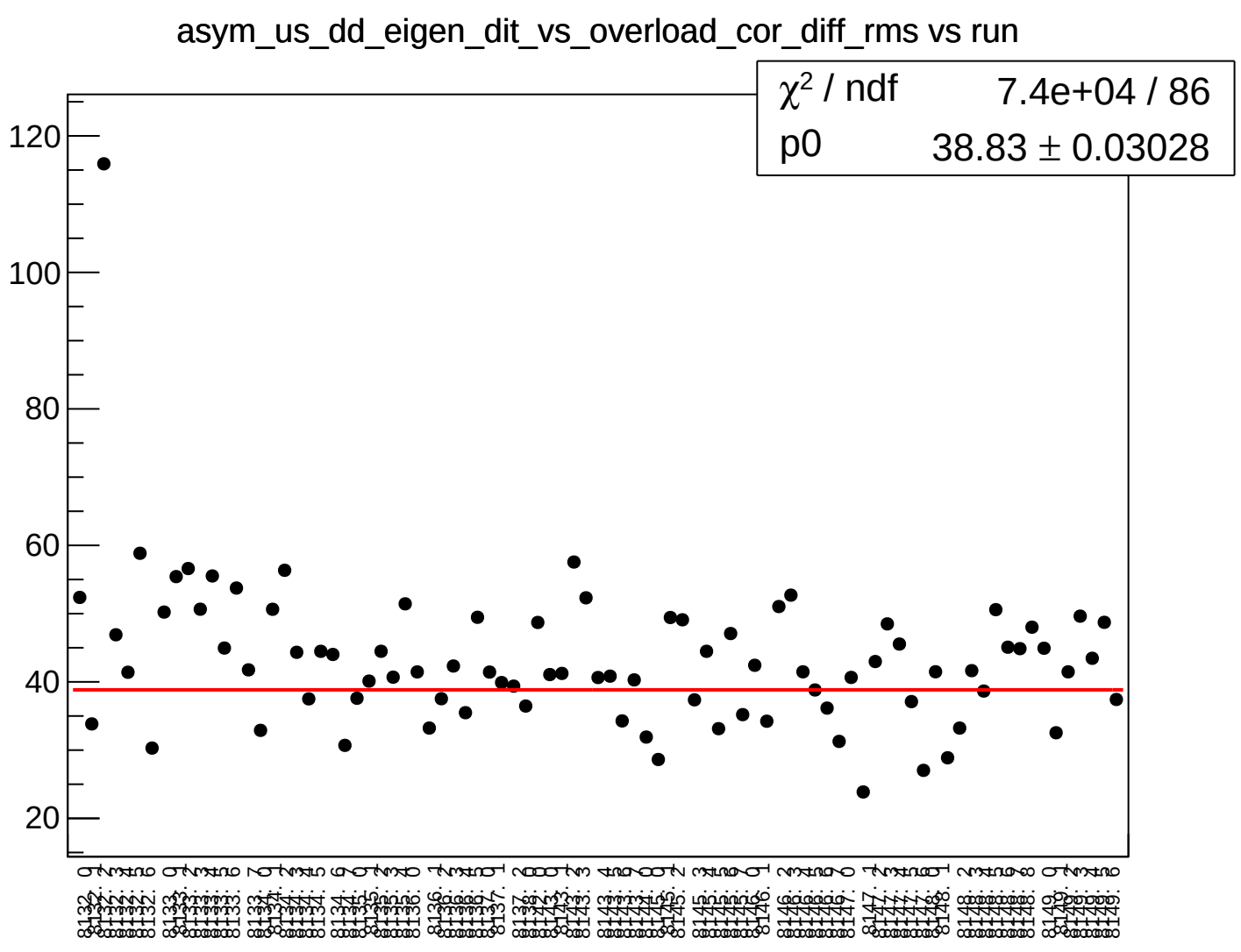

asym_us_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.28 / 86
p0 −0.04828 ± 0.02772
pull
Entries 87
Mean −6.849
Std Dev 73.81

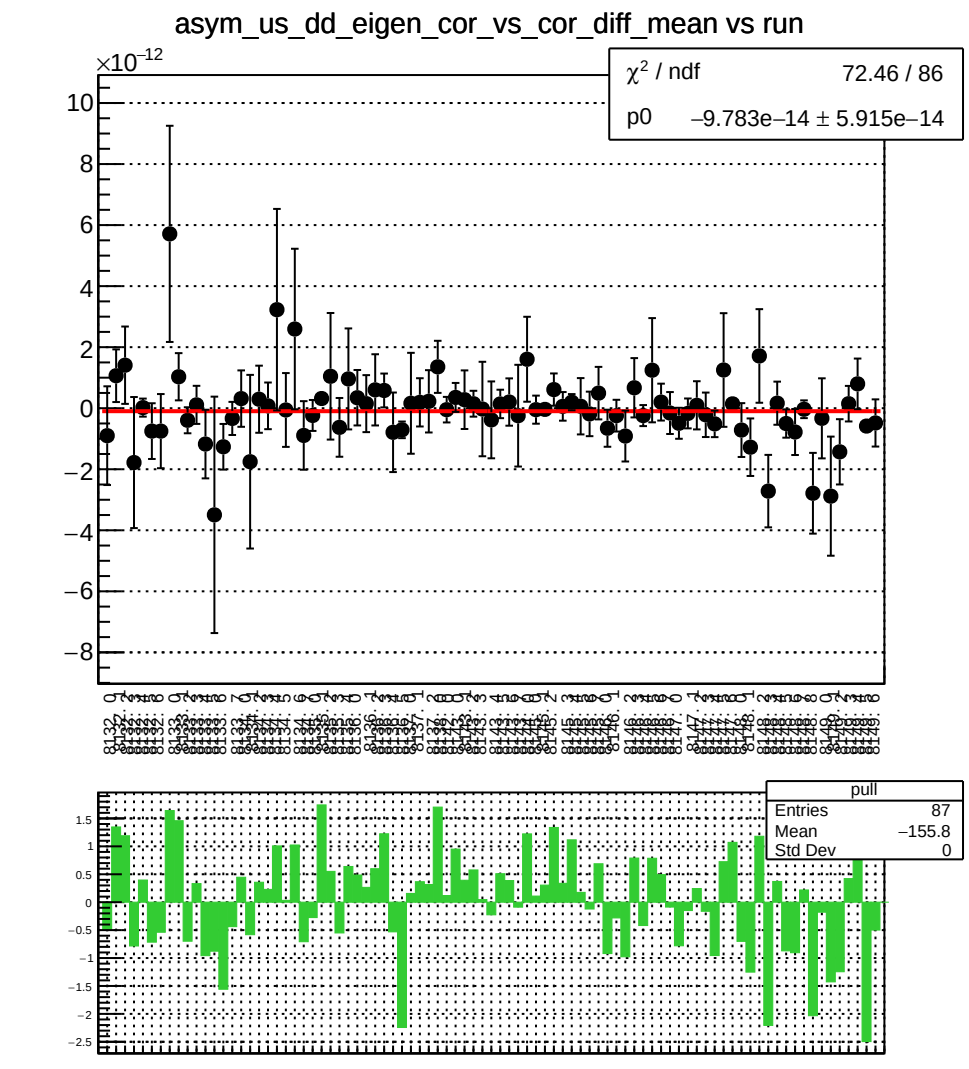

pull1D
Entries 87
Mean −0.01581
Std Dev 0.8857

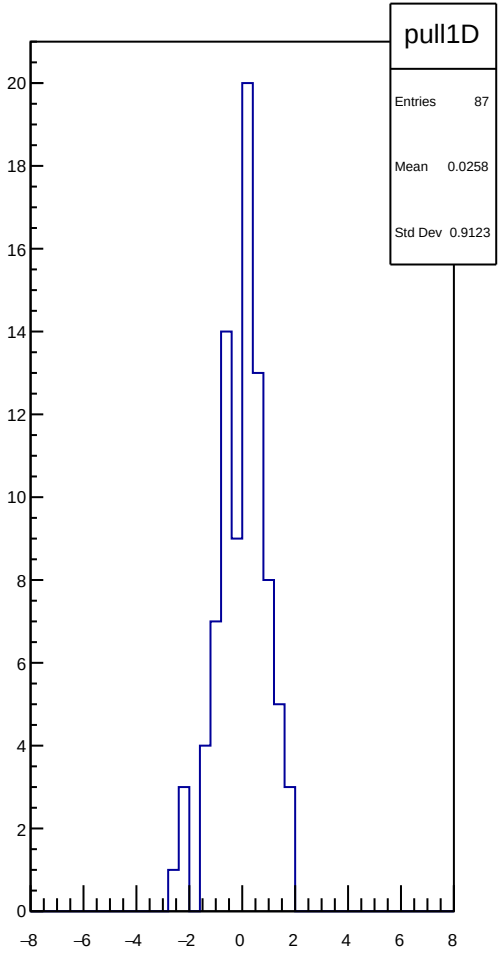

asym_us_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.556e+05 / 86
p0 24.51 ± 0.0196
100
80
60
40
20

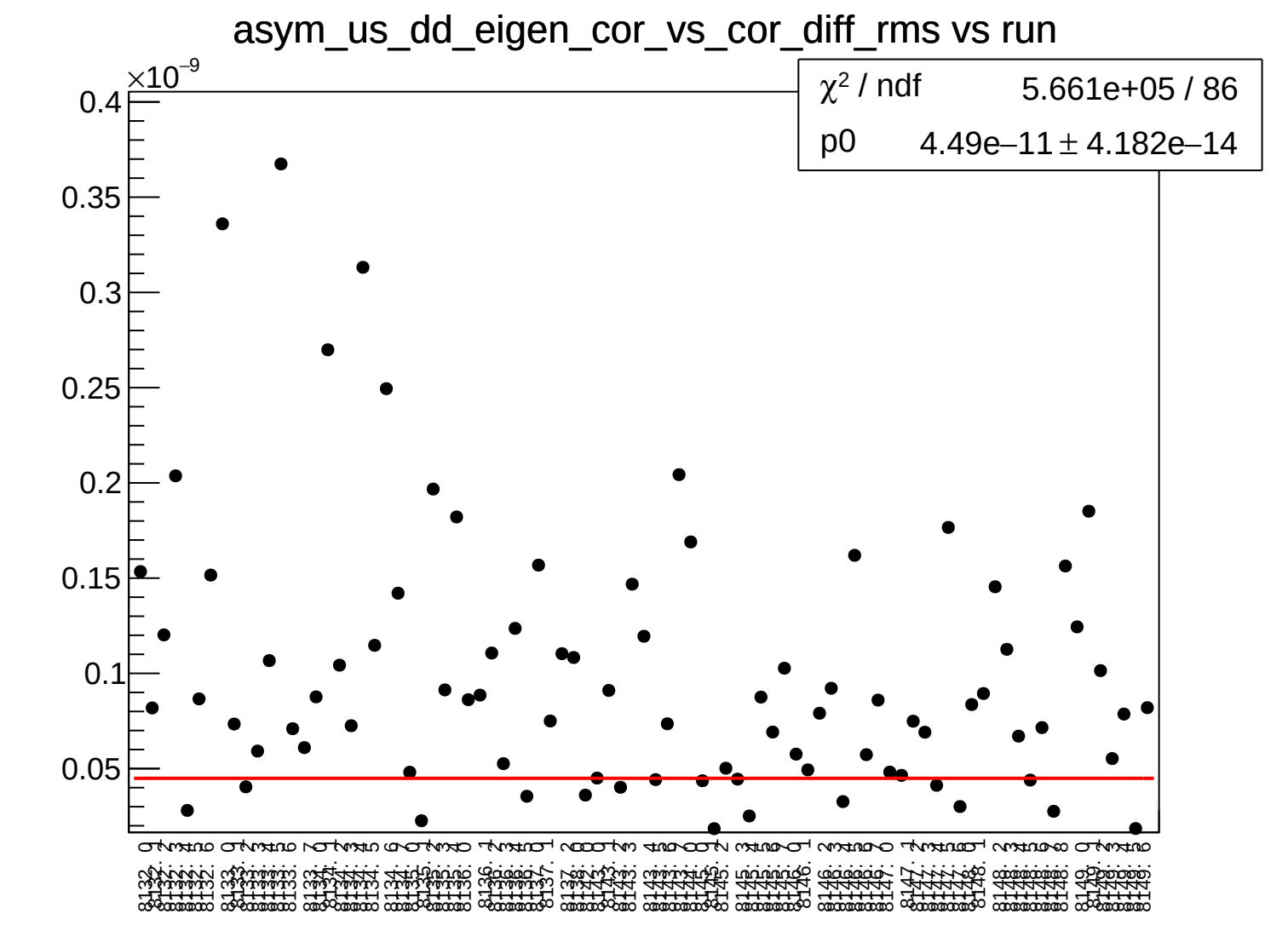

asym_us_dd_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 69.62 / 86
p0 −0.06118 ± 0.04282
pull
Entries 87
Mean −99.42
Std Dev 0

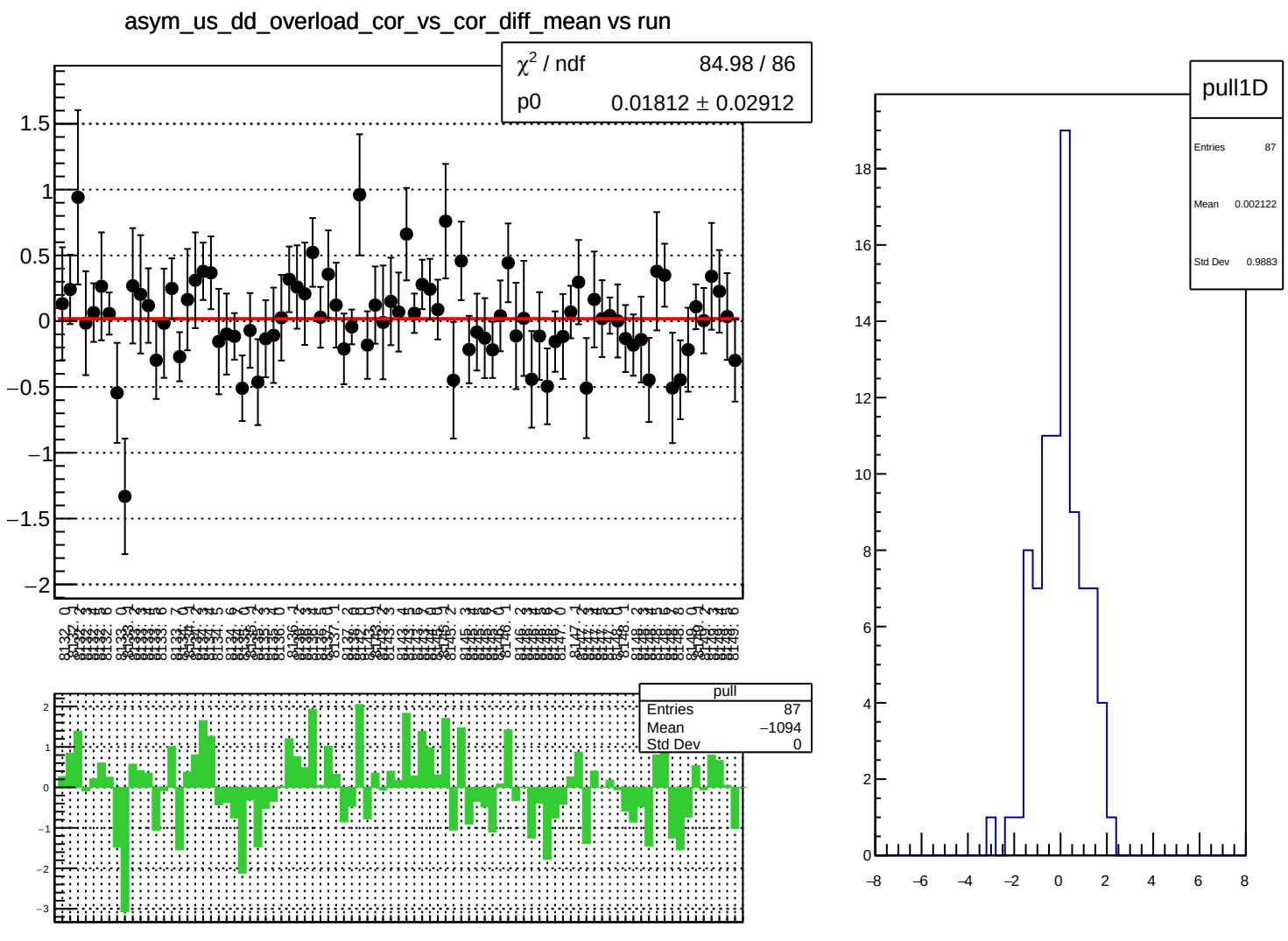

pull1D
Entries 87
Mean −0.01696
Std Dev 0.8944

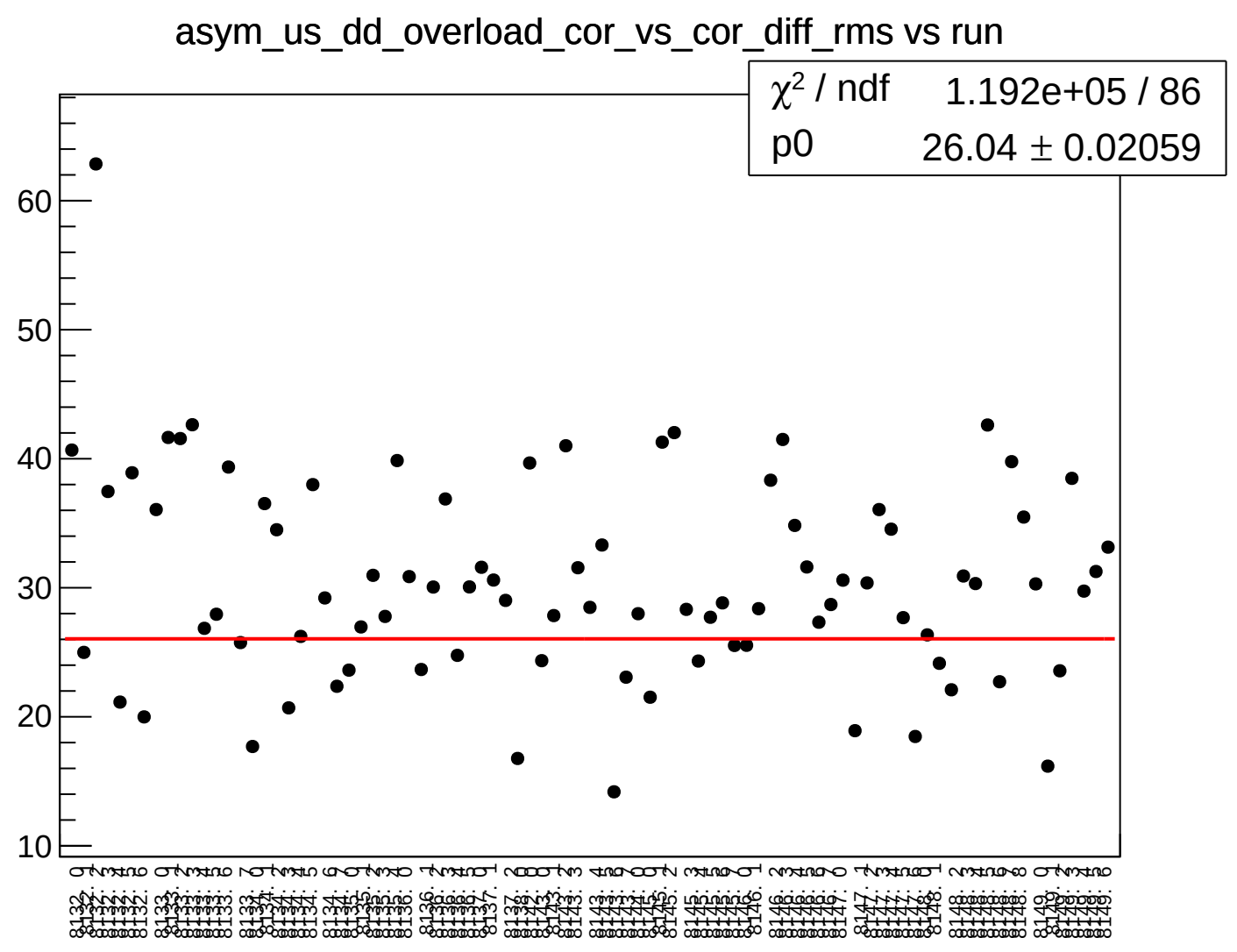

asym_us_dd_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 7.4e+04 / 86
p0 38.83 ± 0.03028
120
100
80
60
40
20

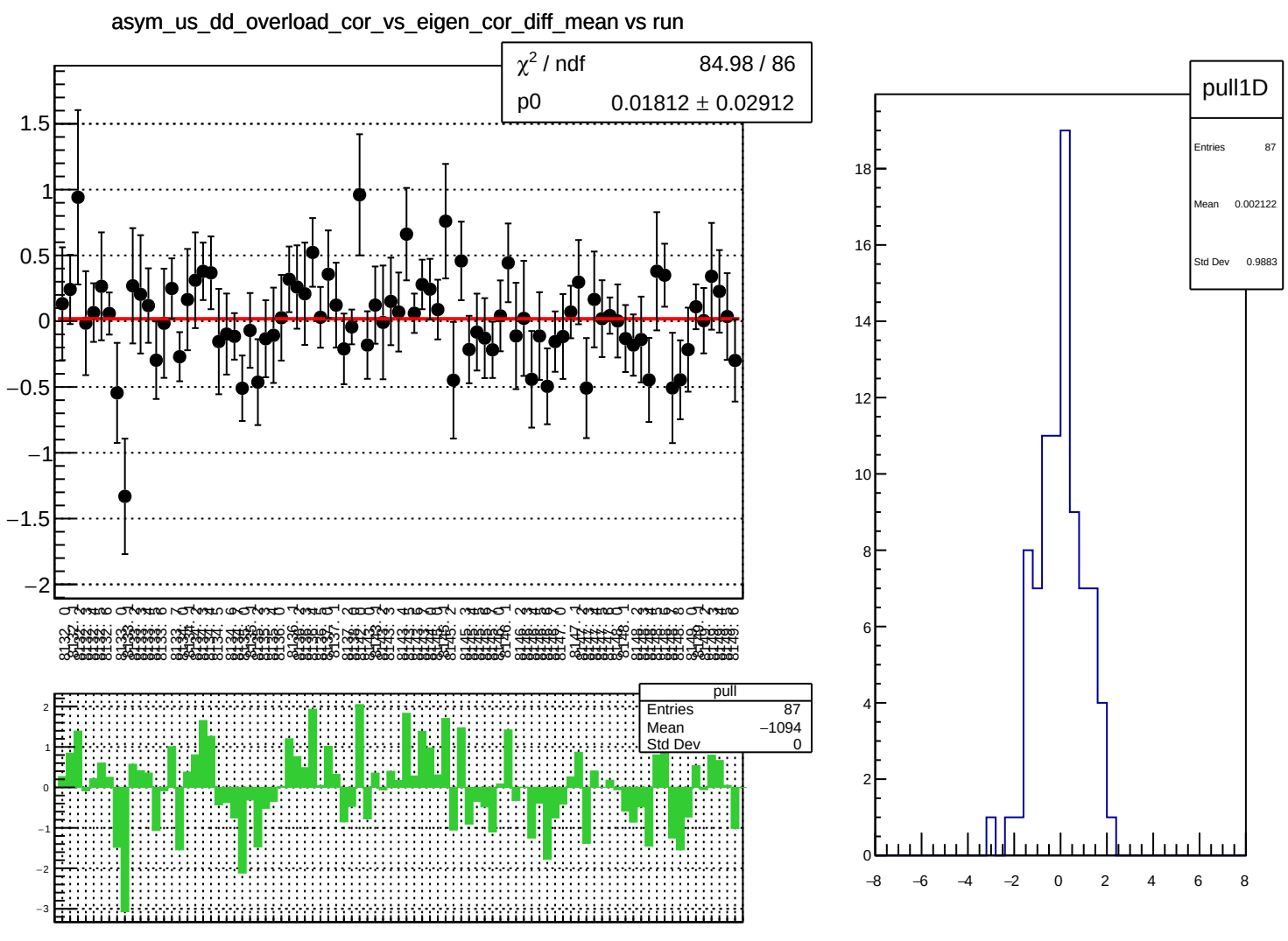

asym_us_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.46 / 86
p0 −9.783e−14 ± 5.915e−14
pull
Entries 87
Mean −155.8
Std Dev 0

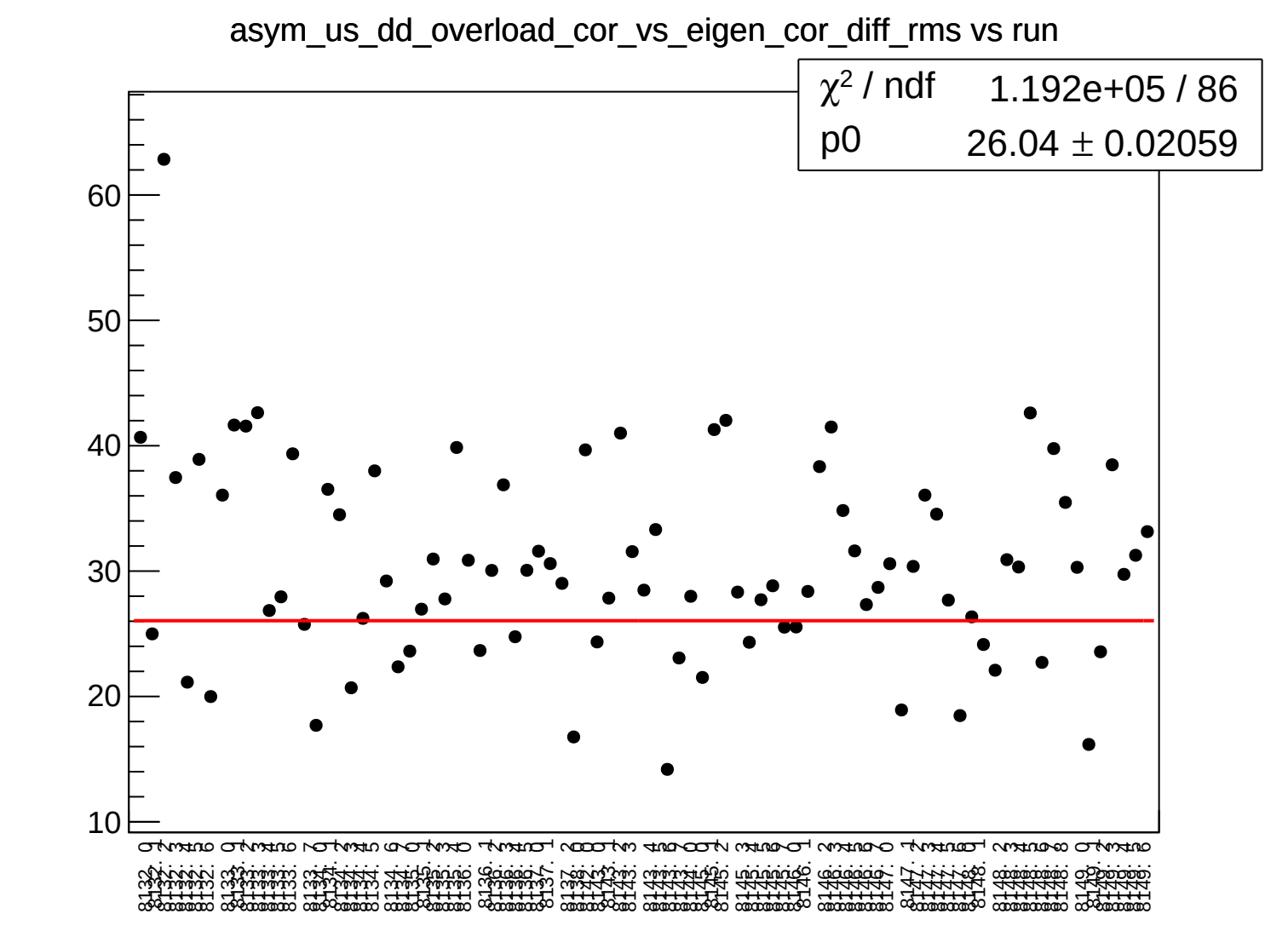

pull1D
Entries 87
Mean 0.0258
Std Dev 0.9123

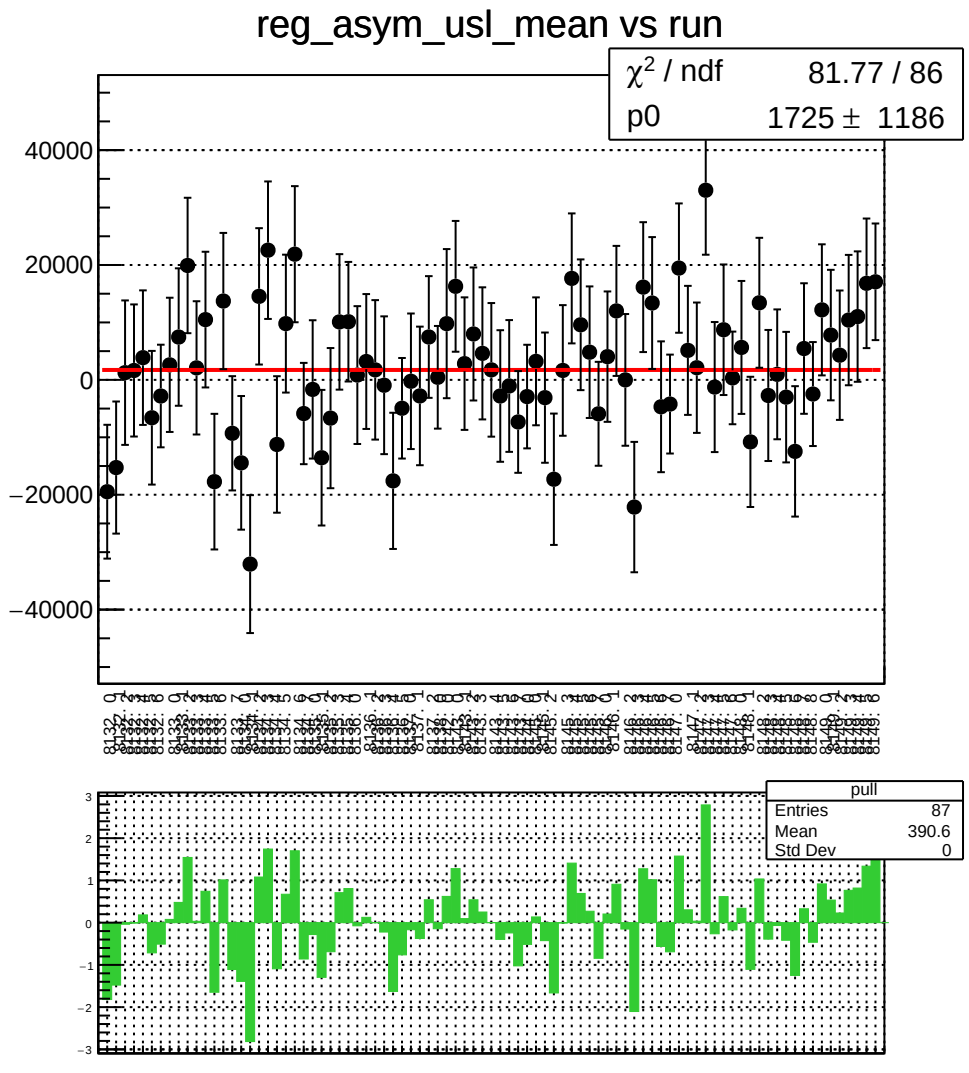

asym_us_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.661e+05 / 86
p0 4.49e−11 ± 4.182e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

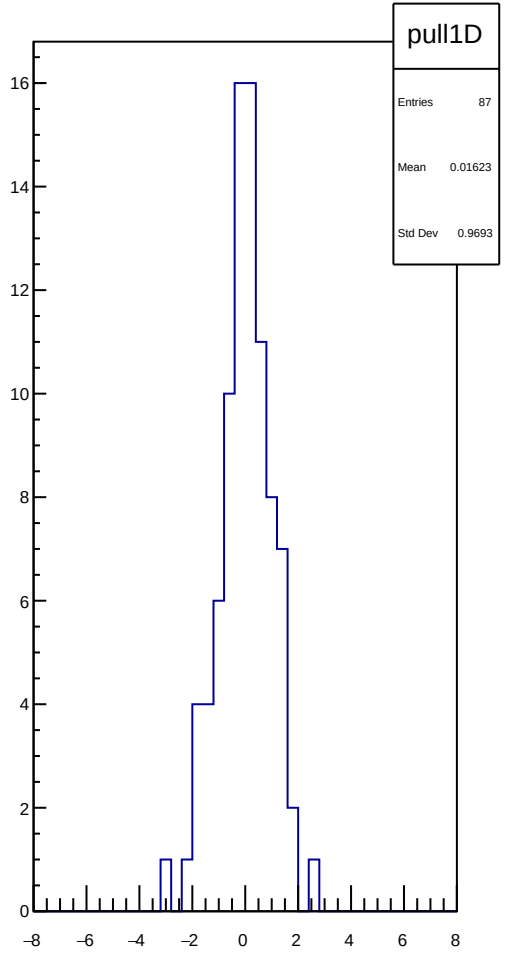

asym_us_dd_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 84.98 / 86
p0 0.01812 ± 0.02912
pull
Entries 87
Mean −1094
Std Dev 0
pull1D
Entries 87
Mean 0.002122
Std Dev 0.9883

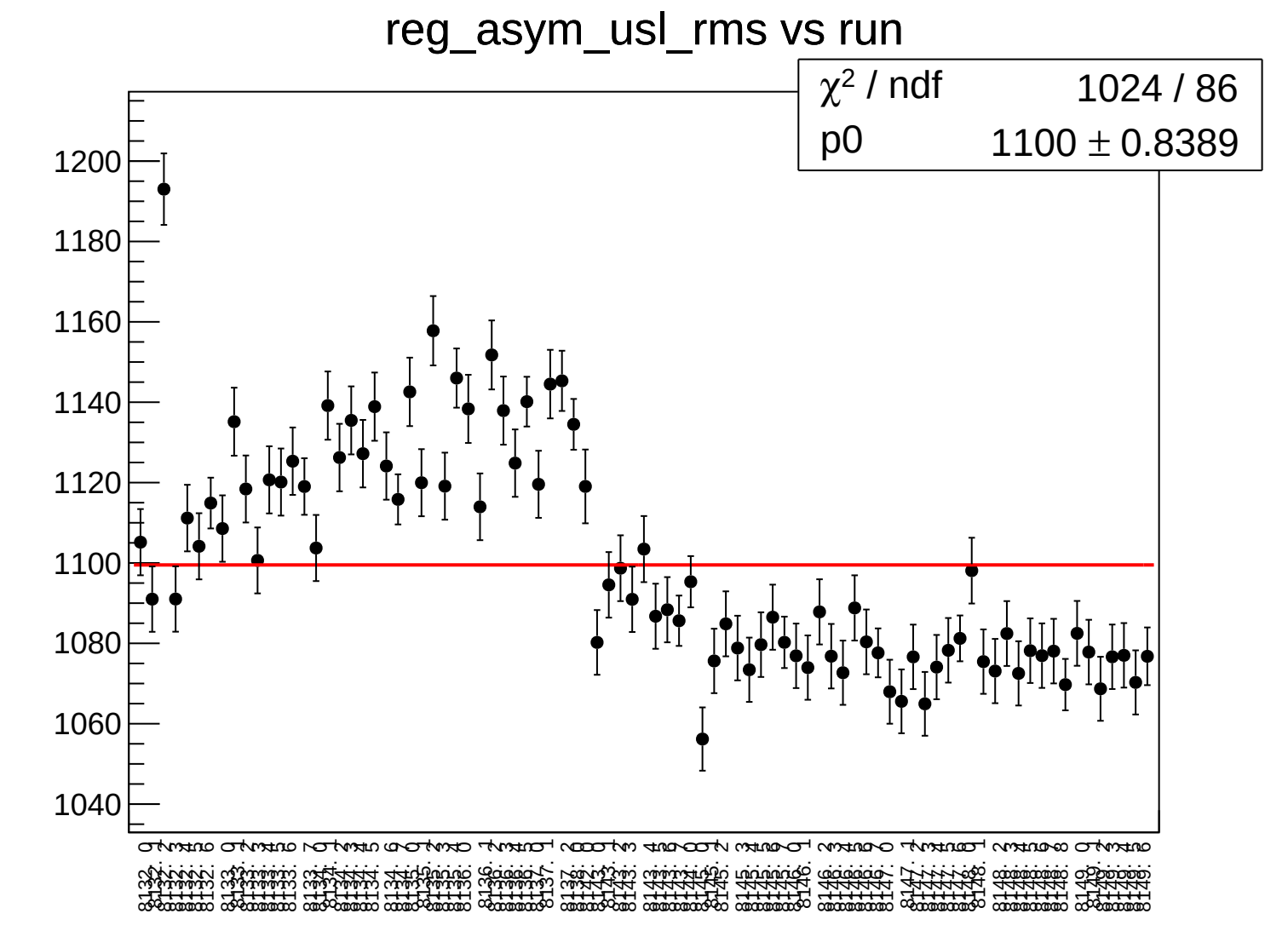

asym_us_dd_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.192e+05 / 86
p0 26.04 ± 0.02059
60
50
40
30
20
10

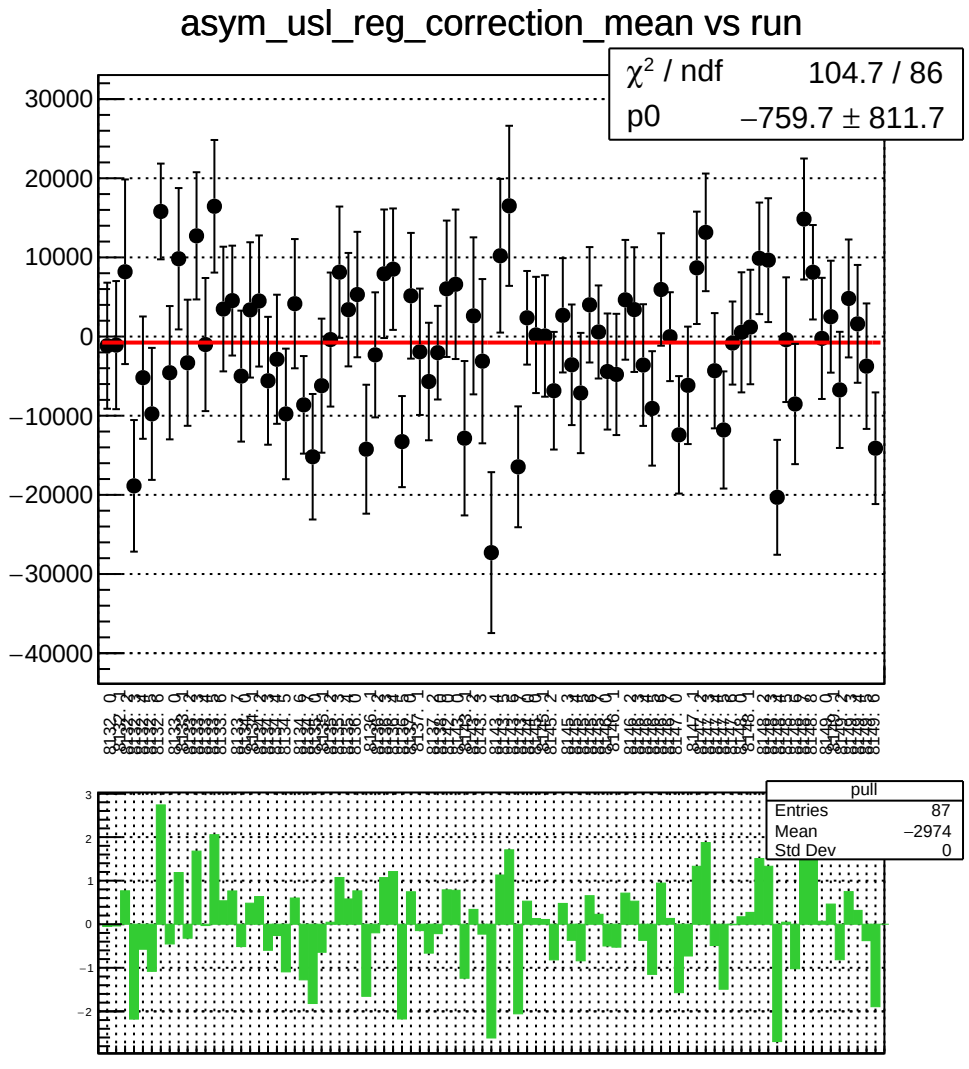

asym_us_dd_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.98 / 86
p0 0.01812 ± 0.02912
pull
Entries 87
Mean −1094
Std Dev 0
pull1D
Entries 87
Mean 0.002122
Std Dev 0.9883

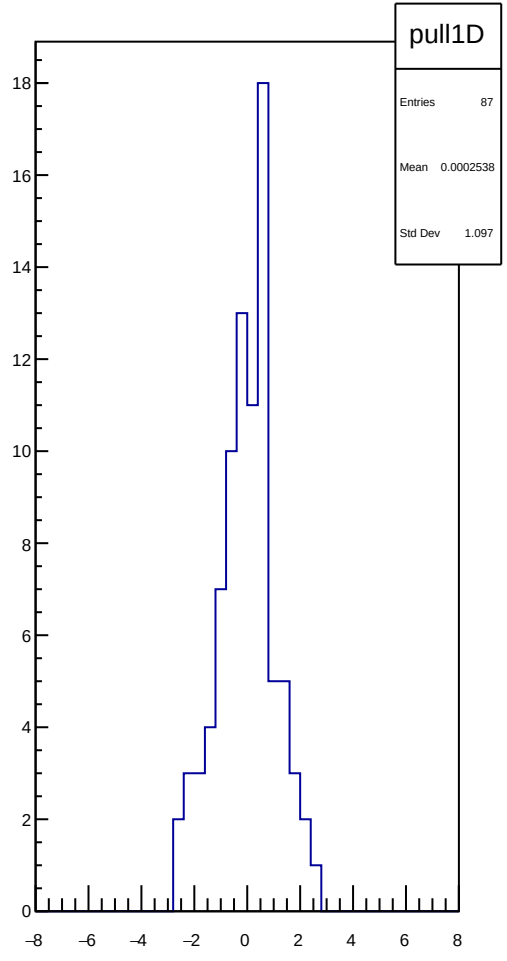

asym_us_dd_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.192e+05 / 86
p0 26.04 ± 0.02059
60
50
40
30
20
10

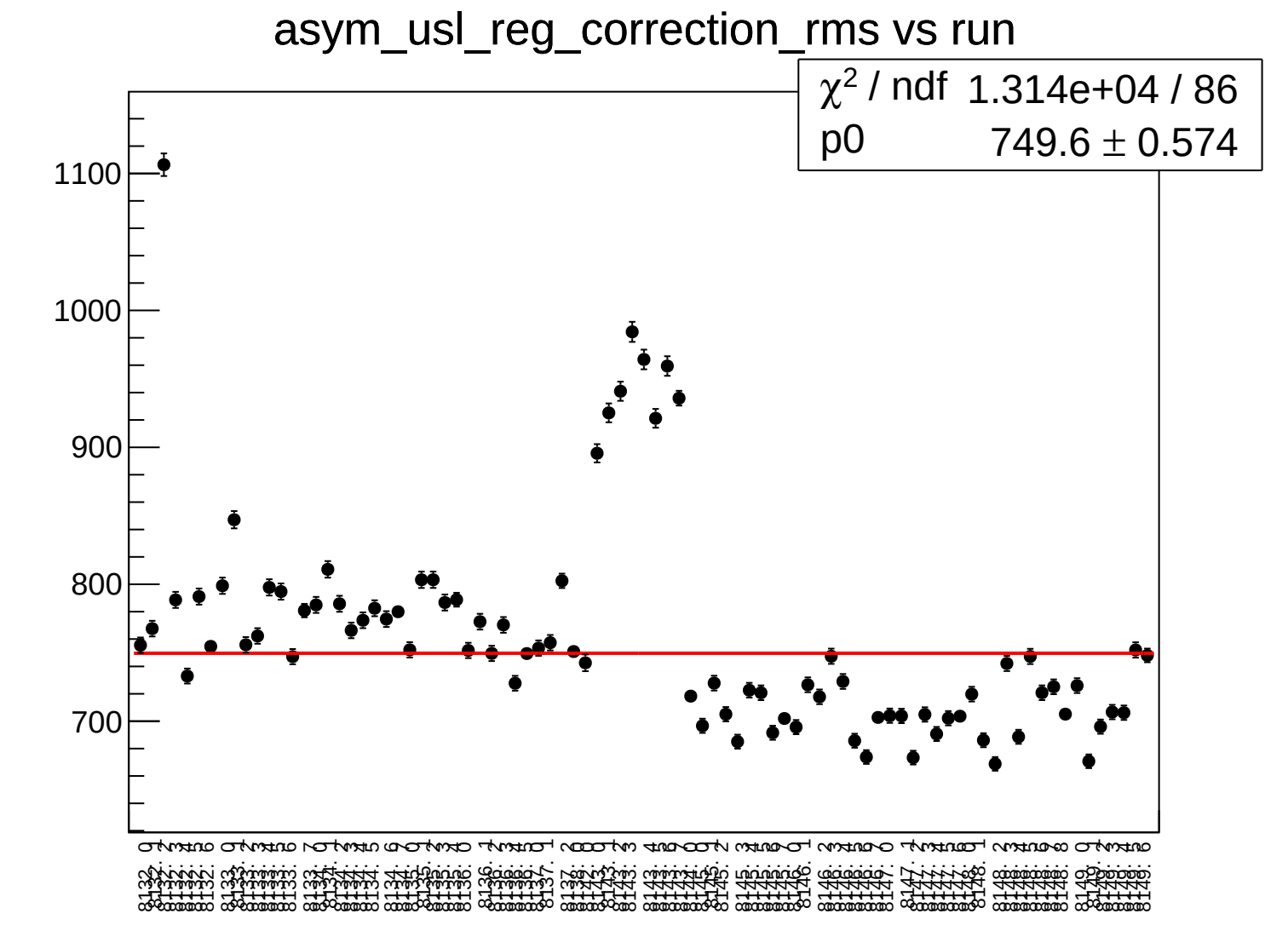

reg_asym_usl_mean vs run
χ² / ndf 81.77 / 86
p0 1725 ± 1186
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 390.6
Std Dev 0
3
2
1
0
−1
−2
−3

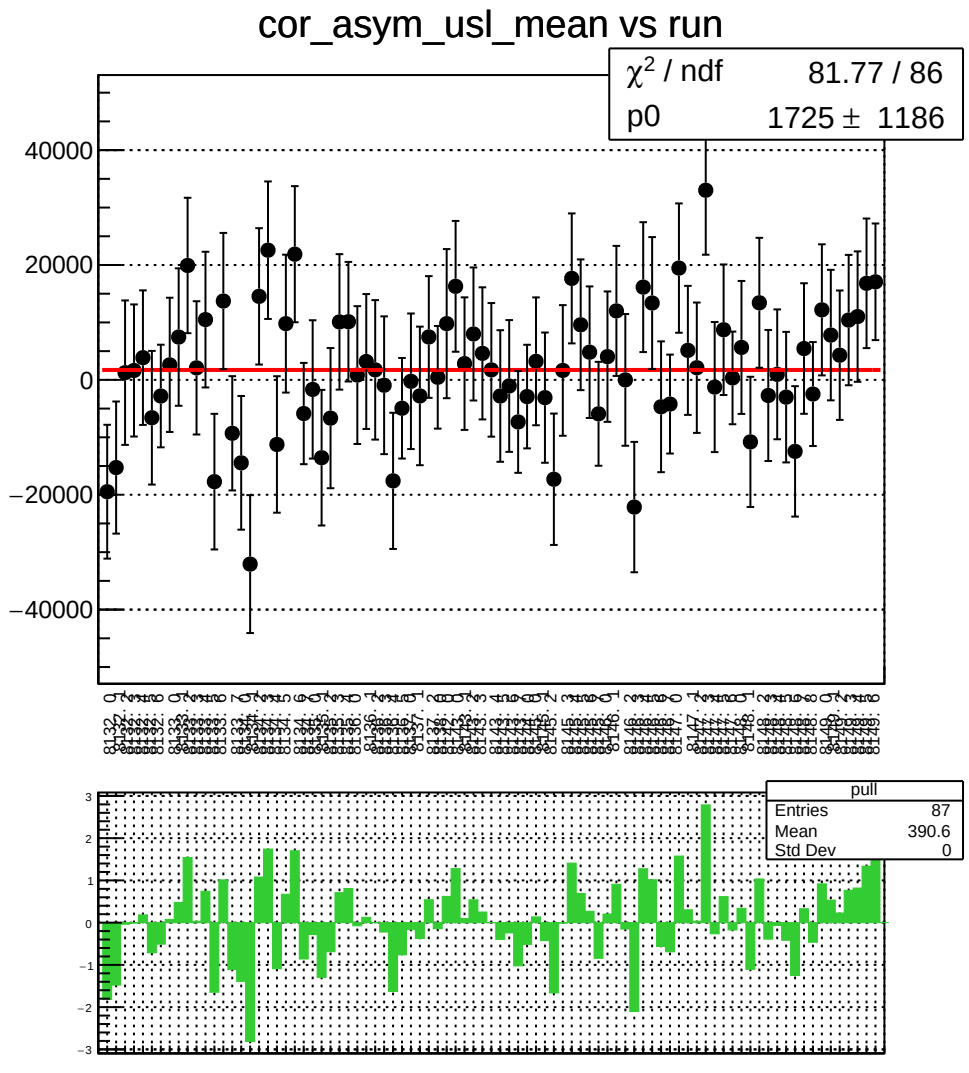

pull1D
Entries 87
Mean 0.01623
Std Dev 0.9693
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

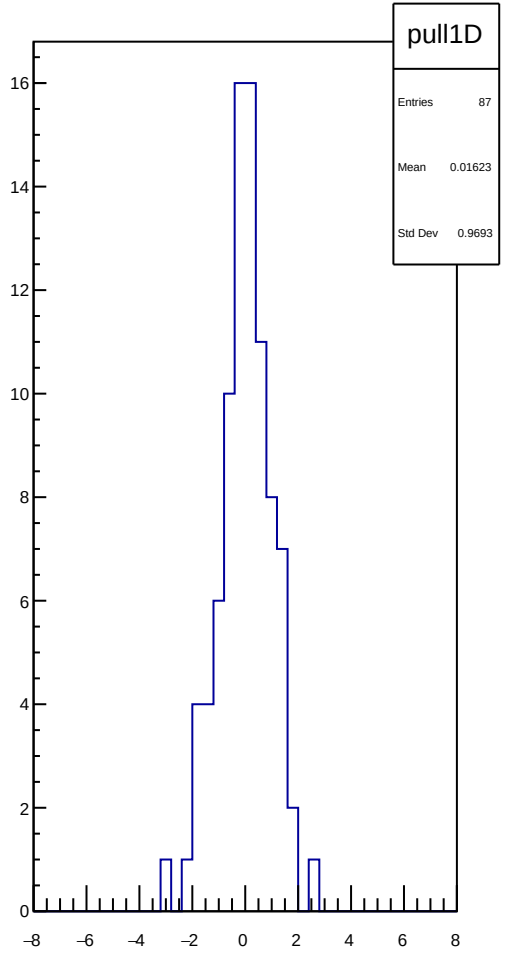

reg_asym_usl_rms vs run
χ² / ndf 1024 / 86
p0 1100 ± 0.8389
1200
1180
1160
1140
1120
1100
1080
1060
1040

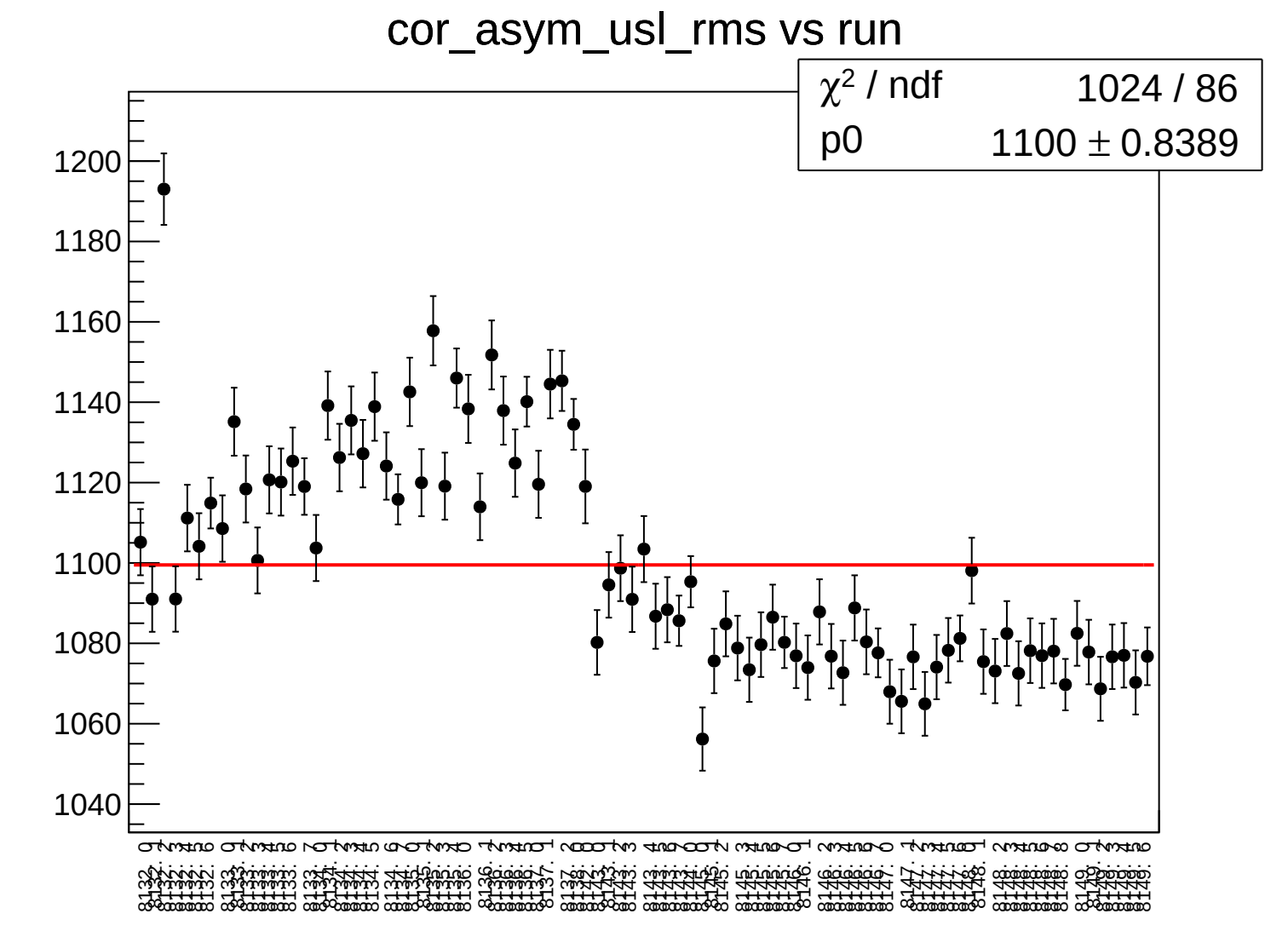

asym_usl_reg_correction_mean vs run
χ² / ndf 104.7 / 86
p0 −759.7 ± 811.7
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 87
Mean −2974
Std Dev 0
3
2
1
0
−1
−2

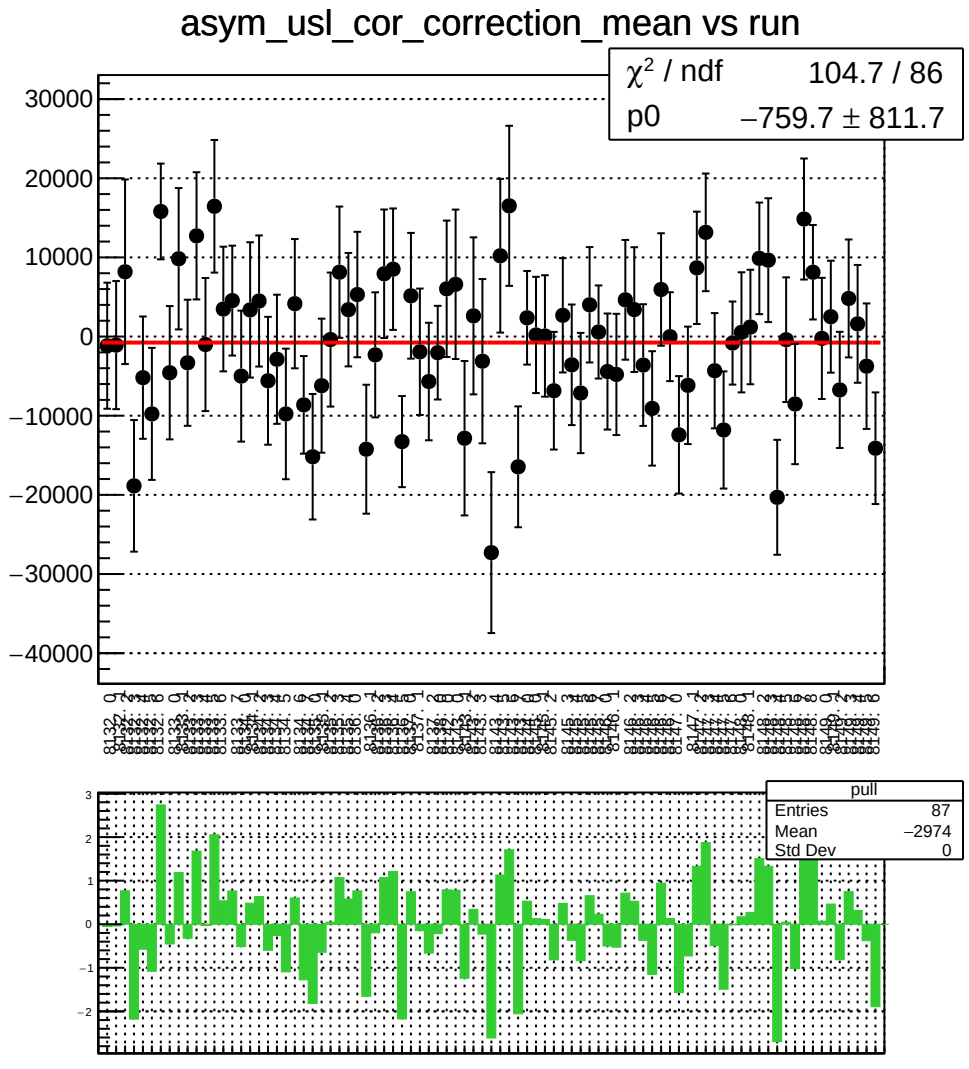

pull1D
Entries 87
Mean 0.0002538
Std Dev 1.097
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

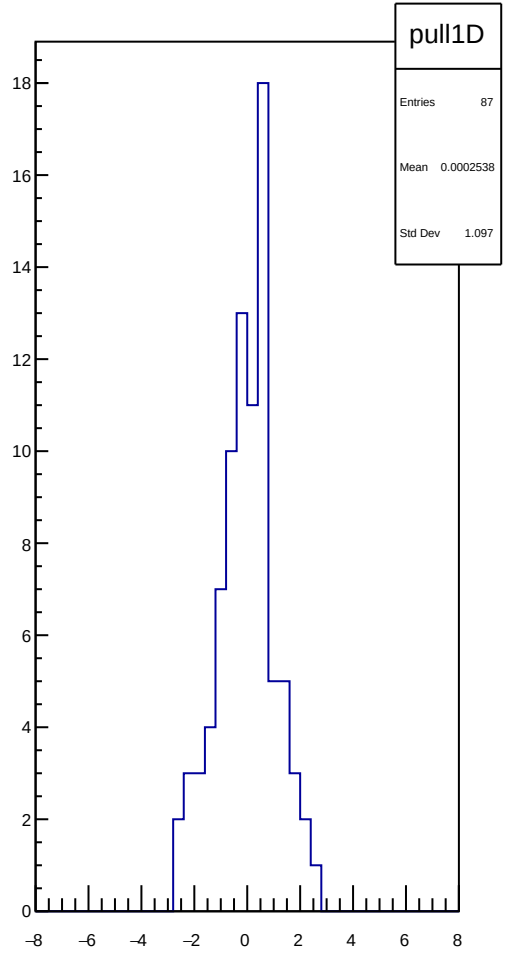

asym_usl_reg_correction_rms vs run
χ² / ndf 1.314e+04 / 86
p0 749.6 ± 0.574
1100
1000
900
800
700

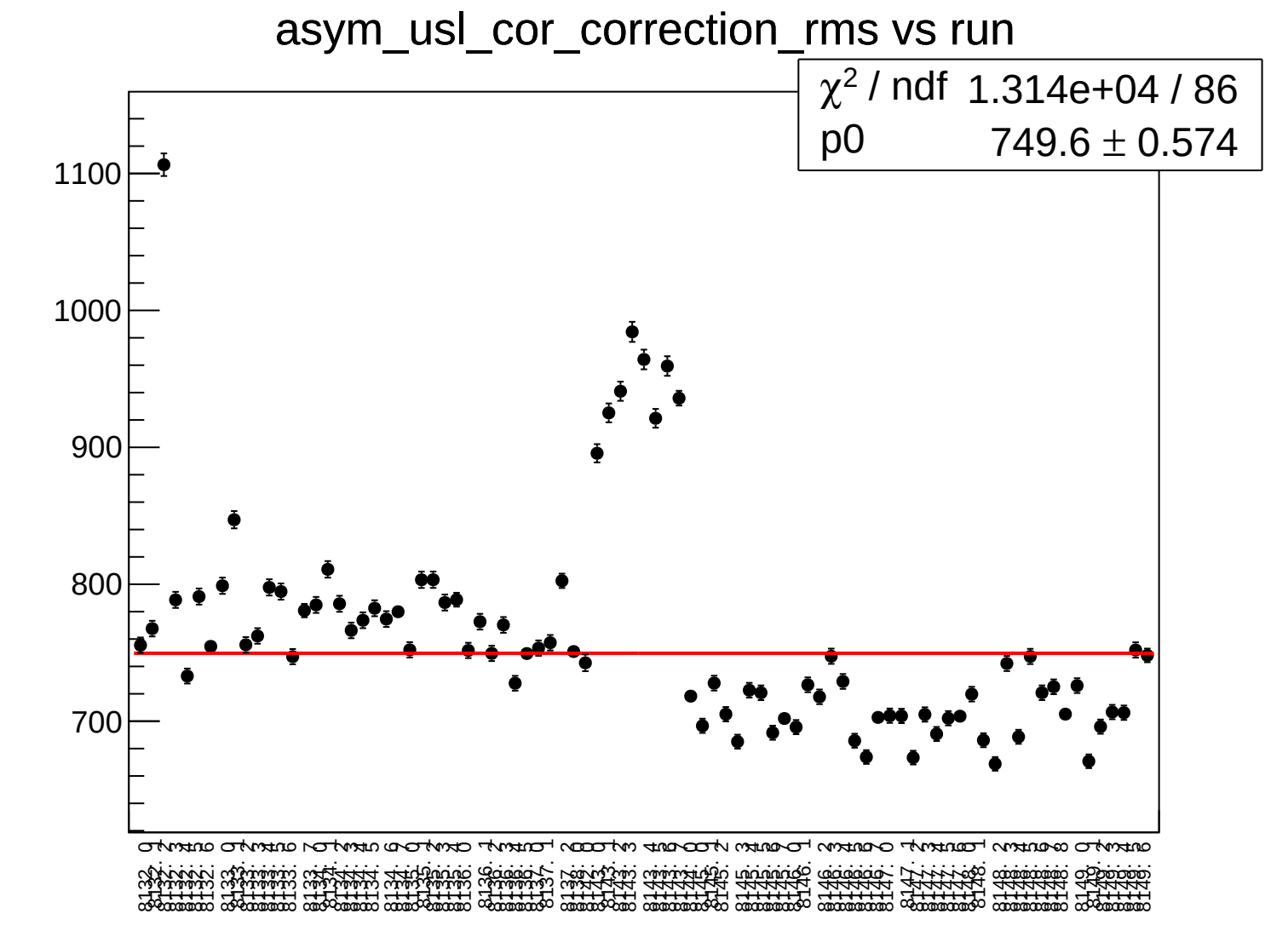

cor_asym_usl_mean vs run
χ² / ndf 81.77 / 86
p0 1725 ± 1186
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 390.6
Std Dev 0
3
2
1
0
−1
−2
−3

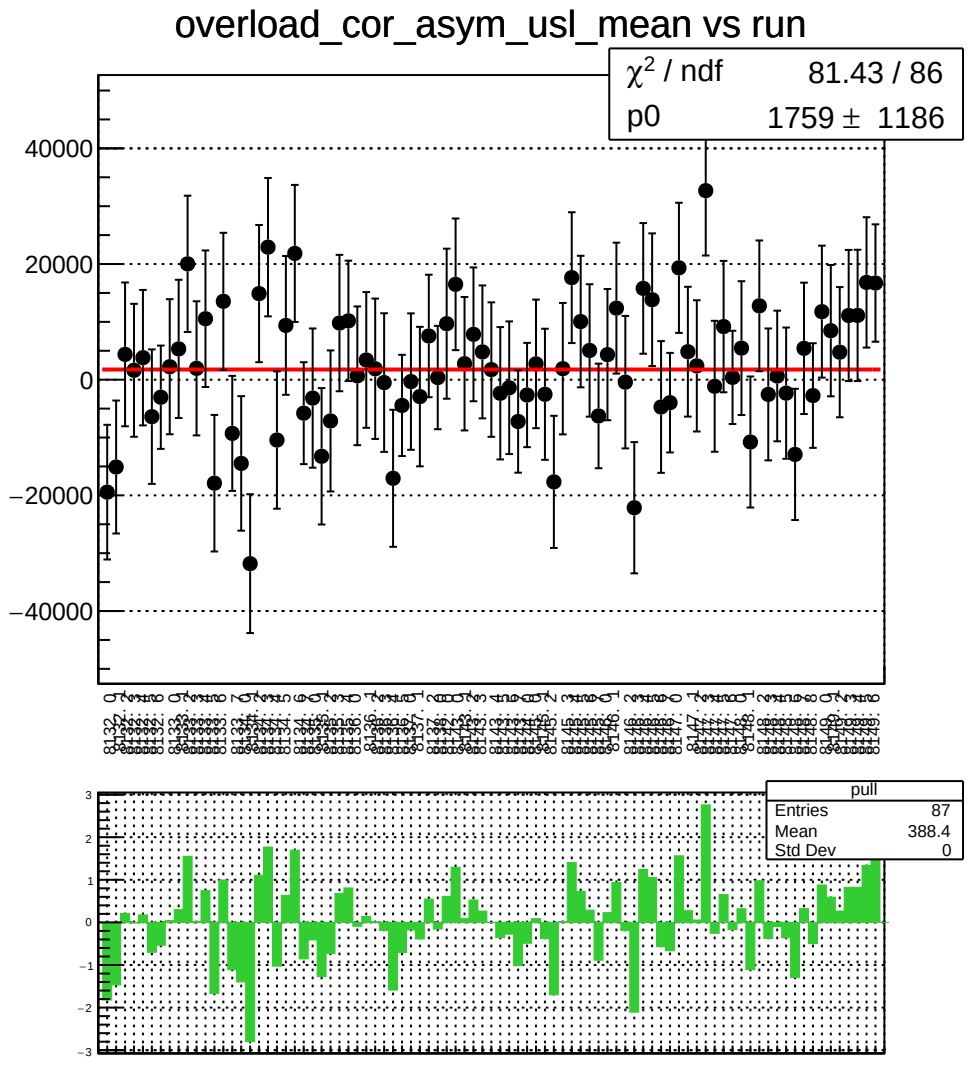

pull1D
Entries 87
Mean 0.01623
Std Dev 0.9693
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

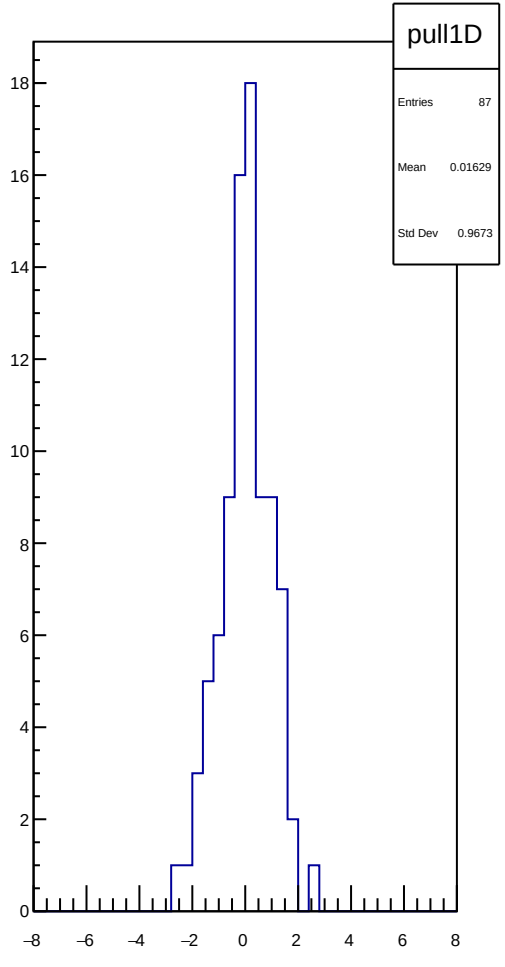

cor_asym_usl_rms vs run
χ² / ndf 1024 / 86
p0 1100 ± 0.8389
1200
1180
1160
1140
1120
1100
1080
1060
1040

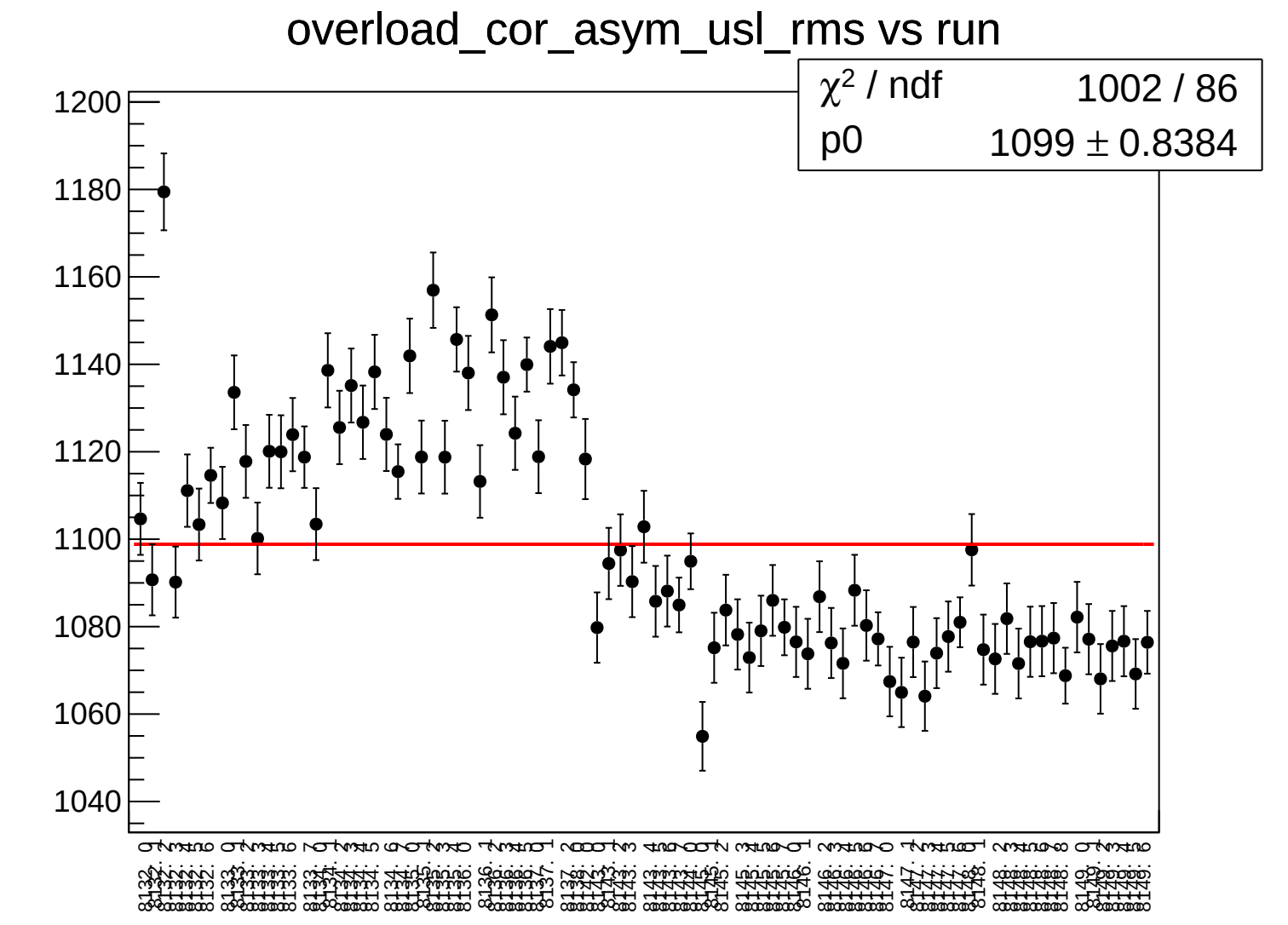

asym_usl_cor_correction_mean vs run
χ² / ndf 104.7 / 86
p0 −759.7 ± 811.7
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 87
Mean −2974
Std Dev 0
3
2
1
0
−1
−2

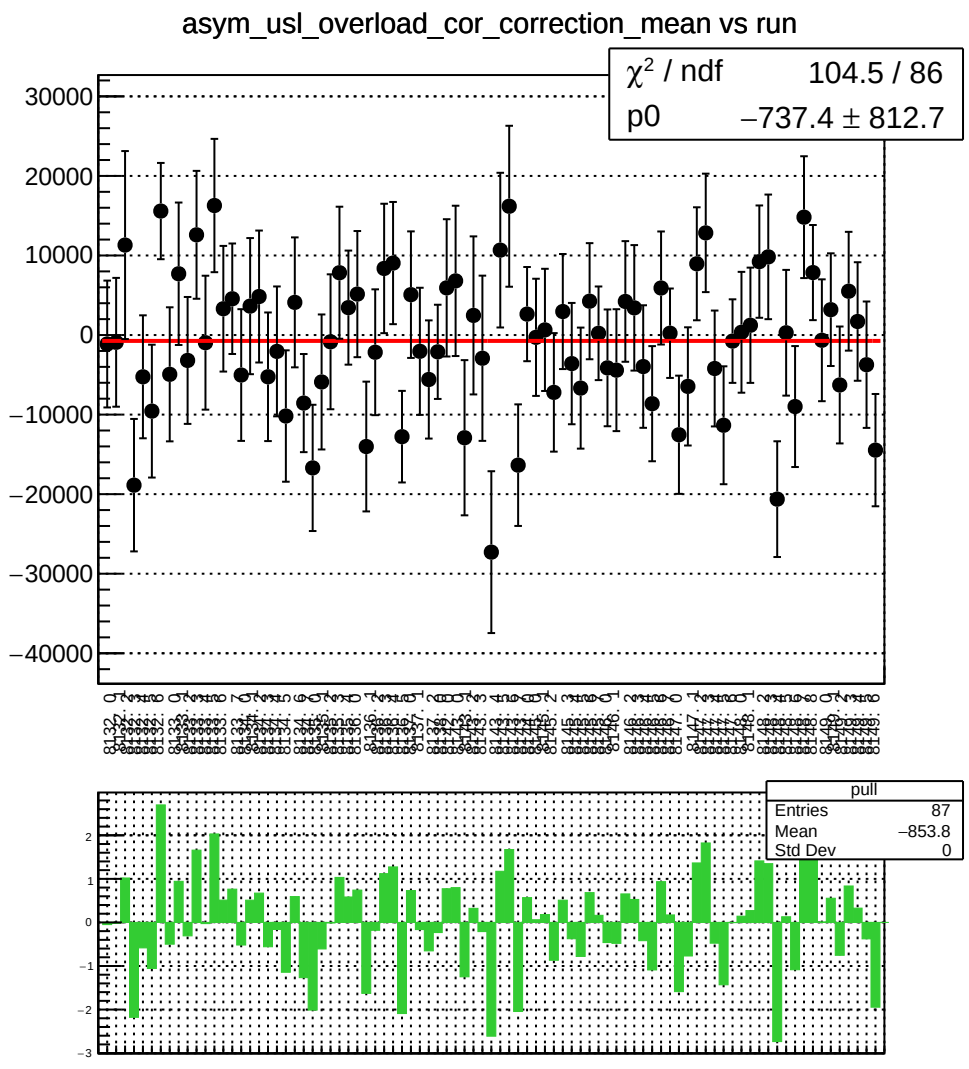

pull1D
Entries 87
Mean 0.0002538
Std Dev 1.097
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

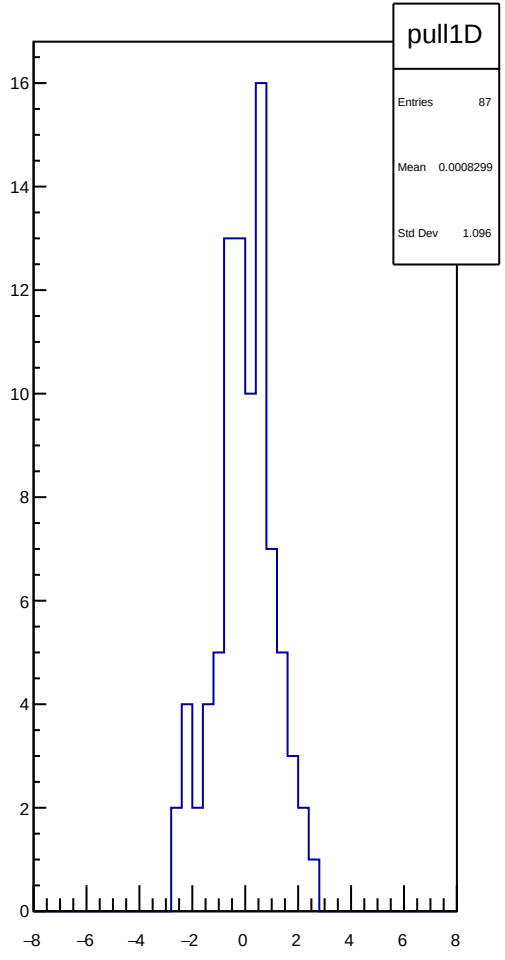

asym_usl_cor_correction_rms vs run
χ² / ndf 1.314e+04 / 86
p0 749.6 ± 0.574
1100
1000
900
800
700

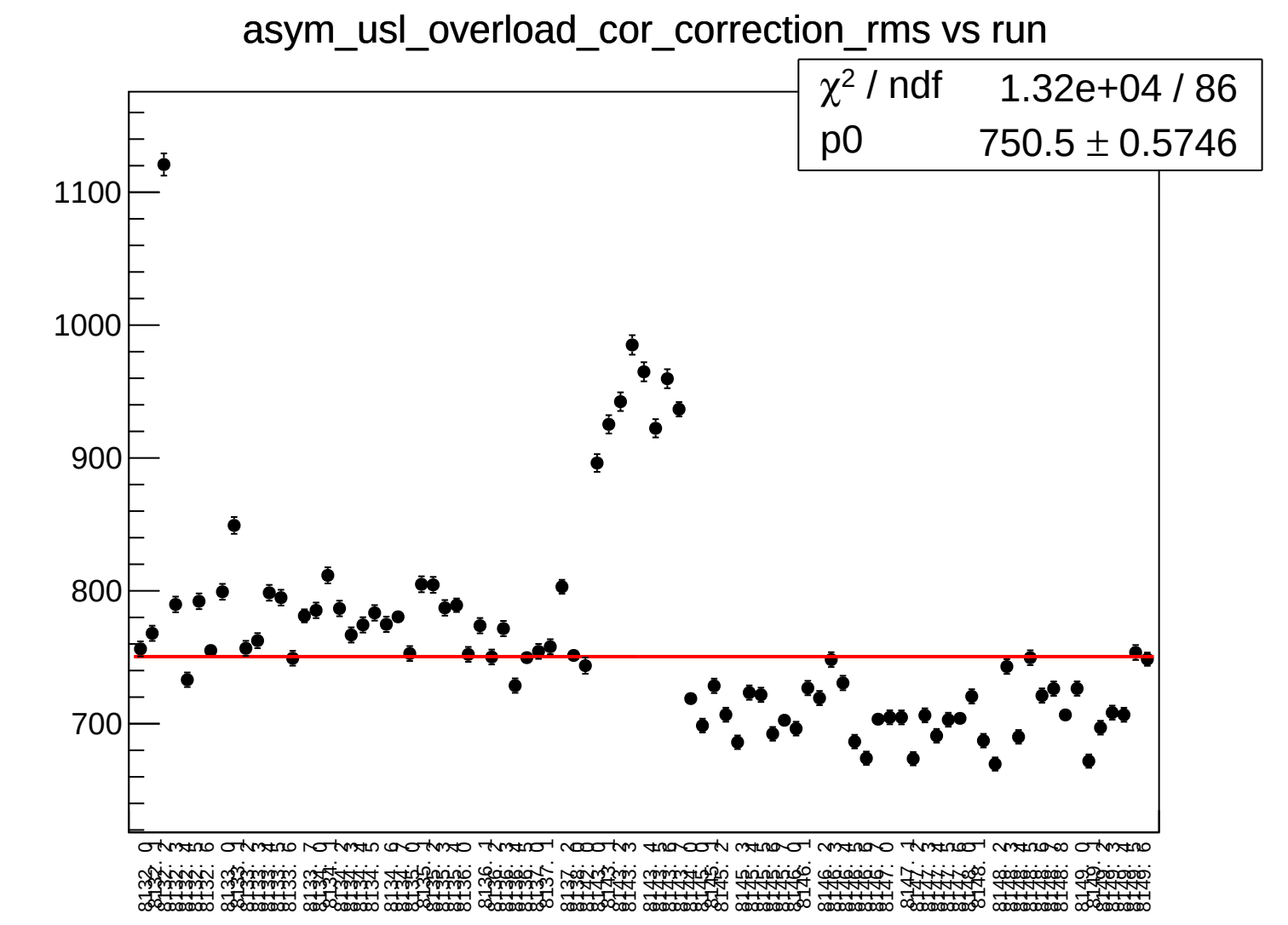

overload_cor_asym_usl_mean vs run
χ² / ndf 81.43 / 86
p0 1759 ± 1186
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 388.4
Std Dev 0
3
2
1
0
−1
−2
−3

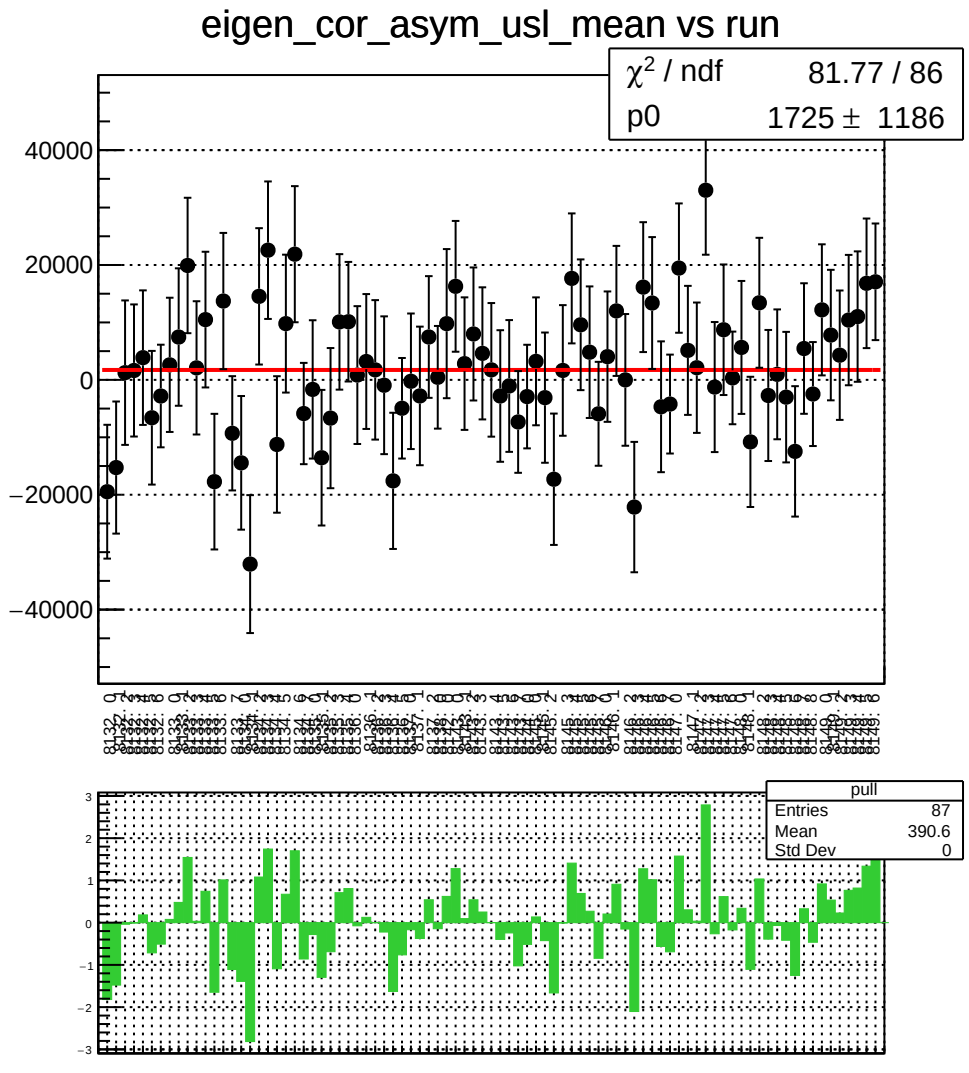

pull1D
Entries 87
Mean 0.01629
Std Dev 0.9673
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

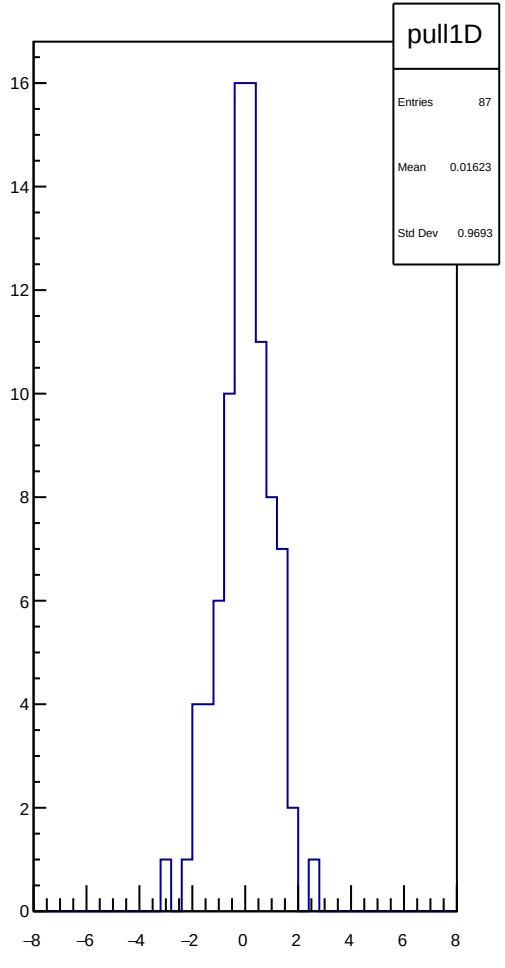

overload_cor_asym_usl_rms vs run
χ² / ndf 1002 / 86
p0 1099 ± 0.8384
1200
1180
1160
1140
1120
1100
1080
1060
1040

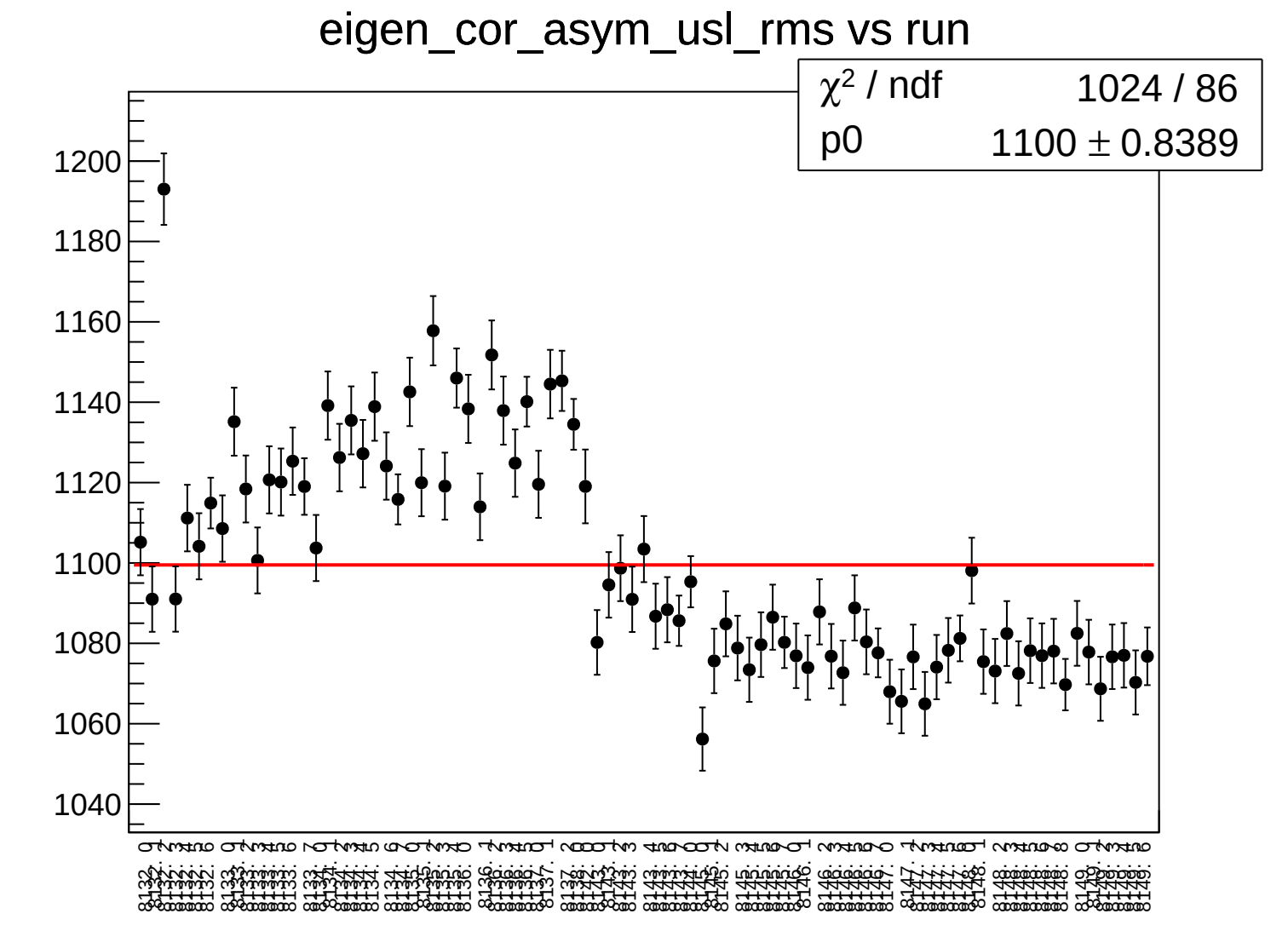

asym_usl_overload_cor_correction_mean vs run
χ² / ndf 104.5 / 86
p0 −737.4 ± 812.7
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 87
Mean −853.8
Std Dev 0
2
1
0
−1
−2
−3

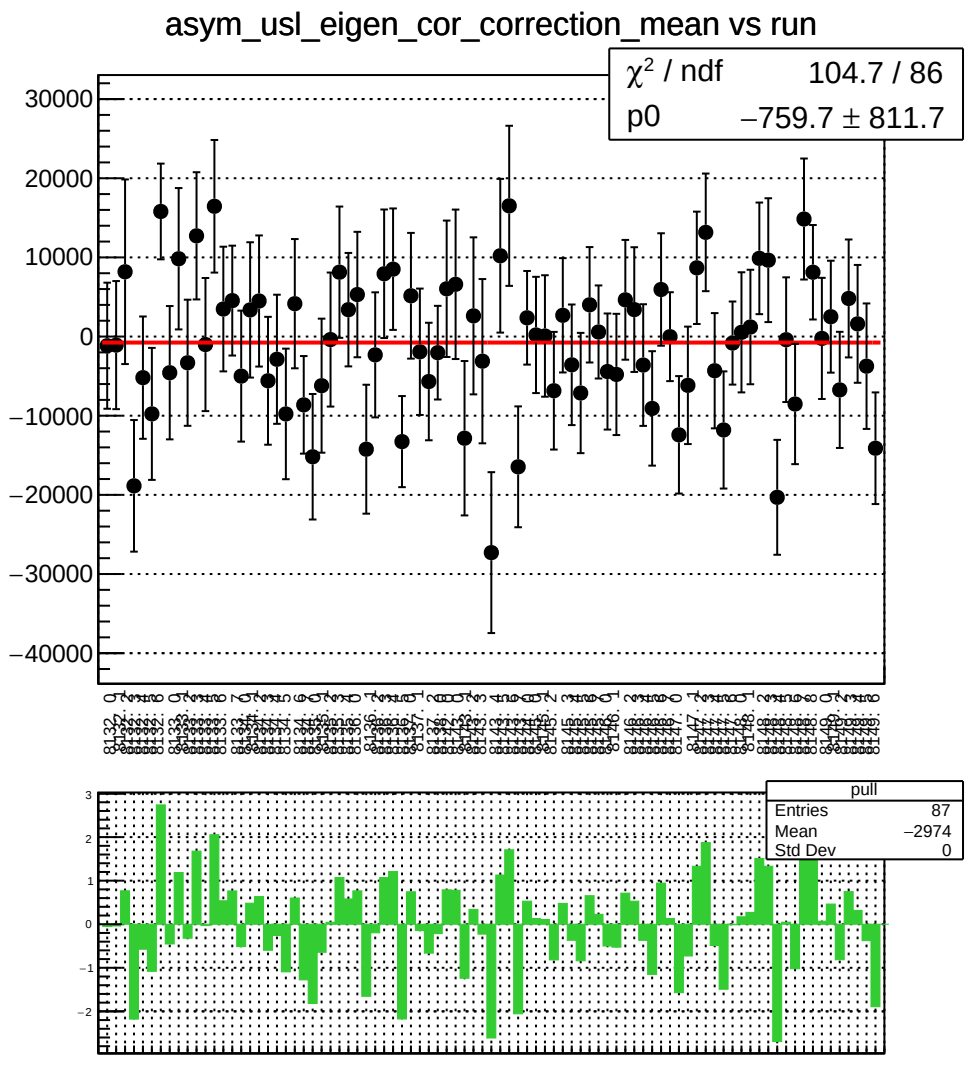

pull1D
Entries 87
Mean 0.0008299
Std Dev 1.096
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

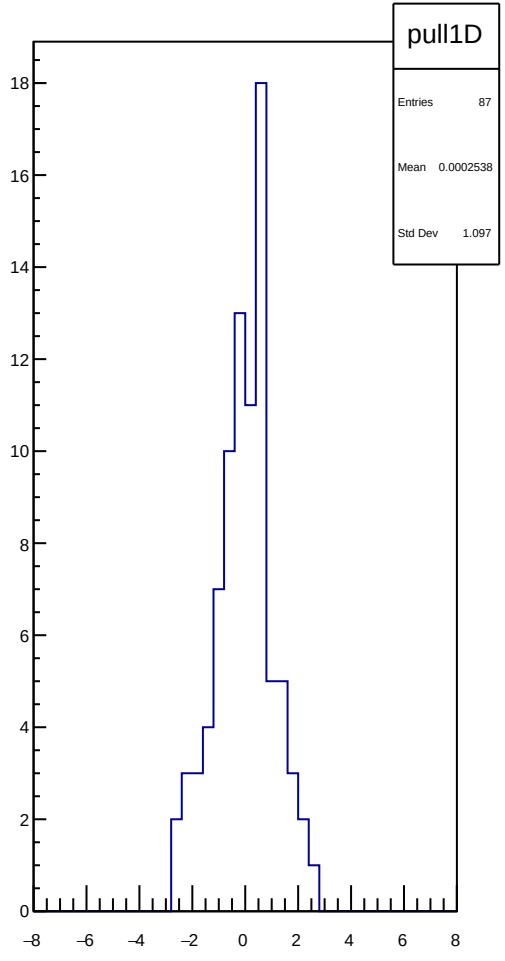

asym_usl_overload_cor_correction_rms vs run
χ² / ndf 1.32e+04 / 86
p0 750.5 ± 0.5746
1100
1000
900
800
700

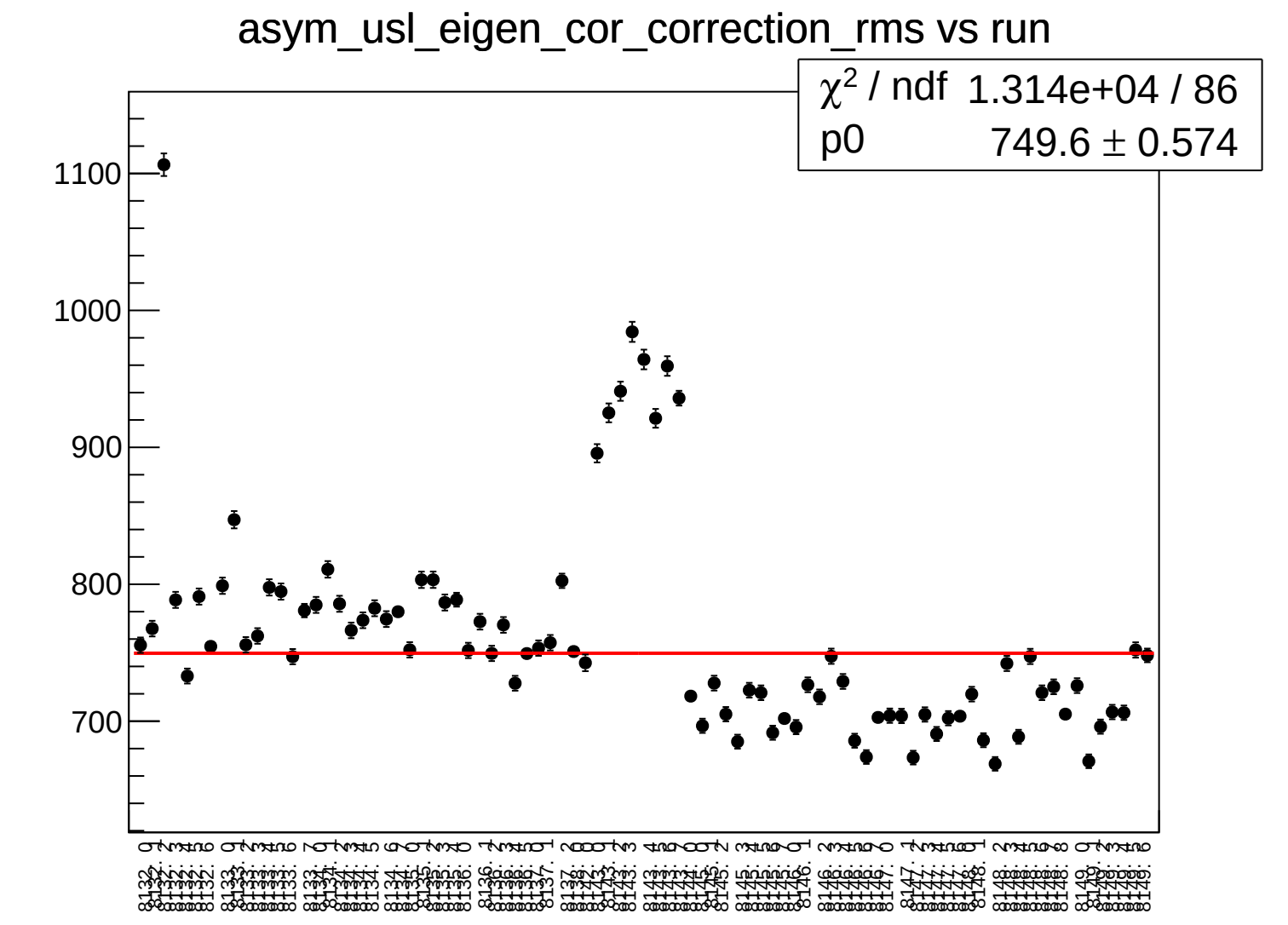

eigen_cor_asym_usl_mean vs run
χ² / ndf 81.77 / 86
p0 1725 ± 1186
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 390.6
Std Dev 0
3
2
1
0
−1
−2
−3

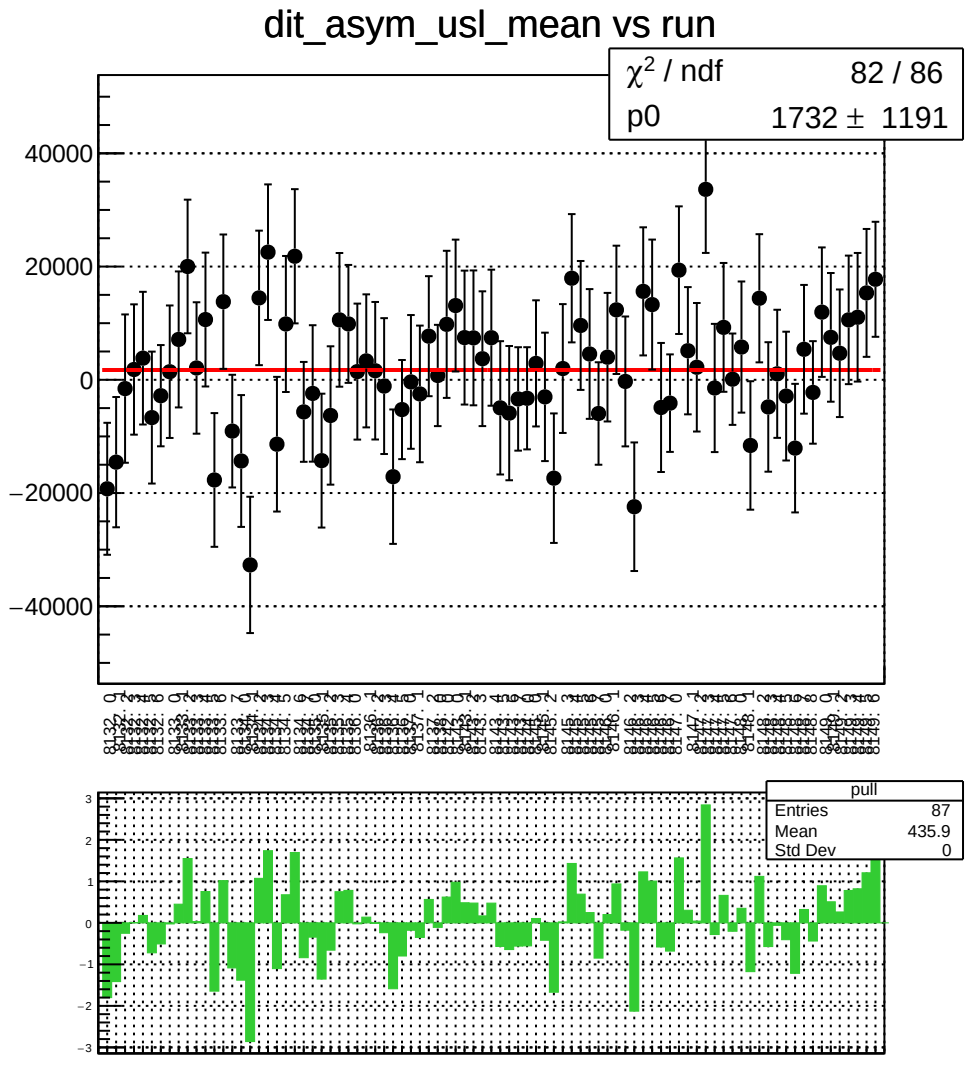

pull1D
Entries 87
Mean 0.01623
Std Dev 0.9693
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

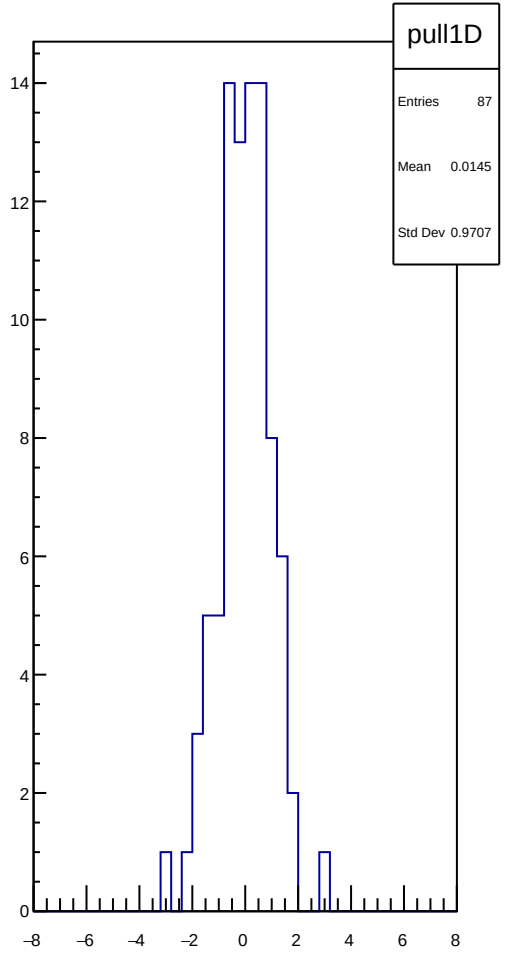

eigen_cor_asym_usl_rms vs run
χ² / ndf 1024 / 86
p0 1100 ± 0.8389
1200
1180
1160
1140
1120
1100
1080
1060
1040

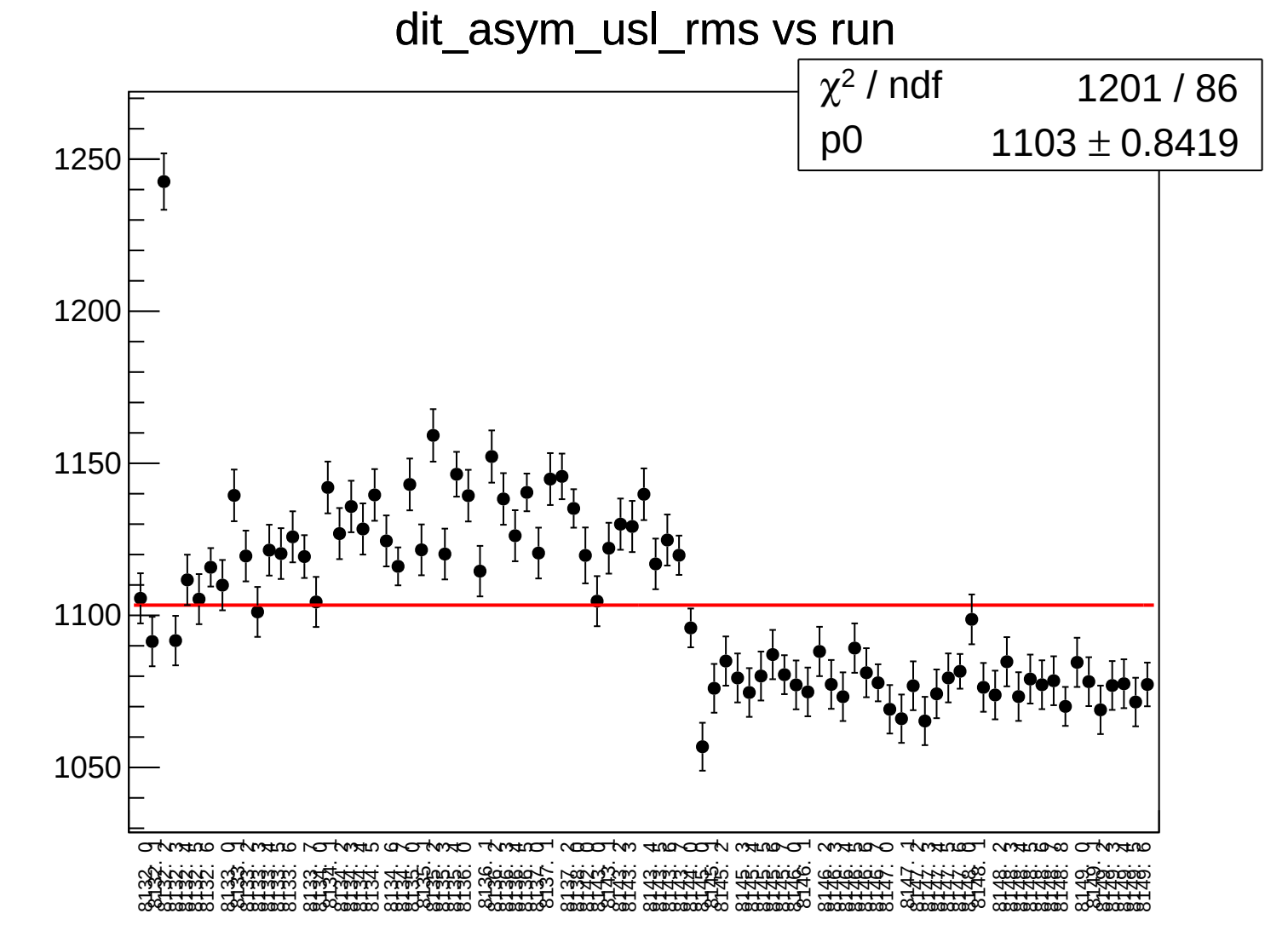

asym_usl_eigen_cor_correction_mean vs run
χ² / ndf 104.7 / 86
p0 −759.7 ± 811.7
pull
Entries 87
Mean −2974
Std Dev 0

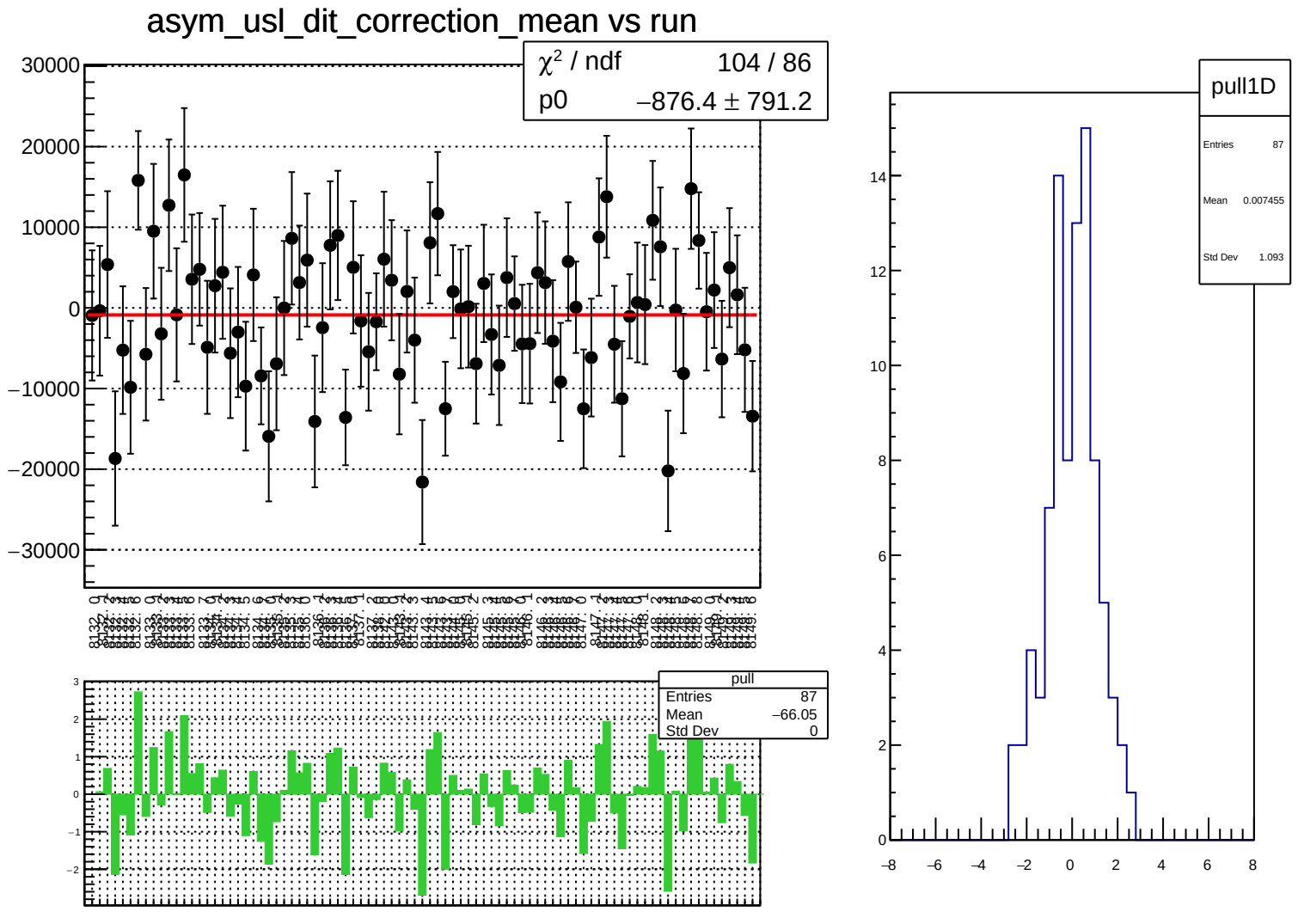

pull1D
Entries 87
Mean 0.0002538
Std Dev 1.097

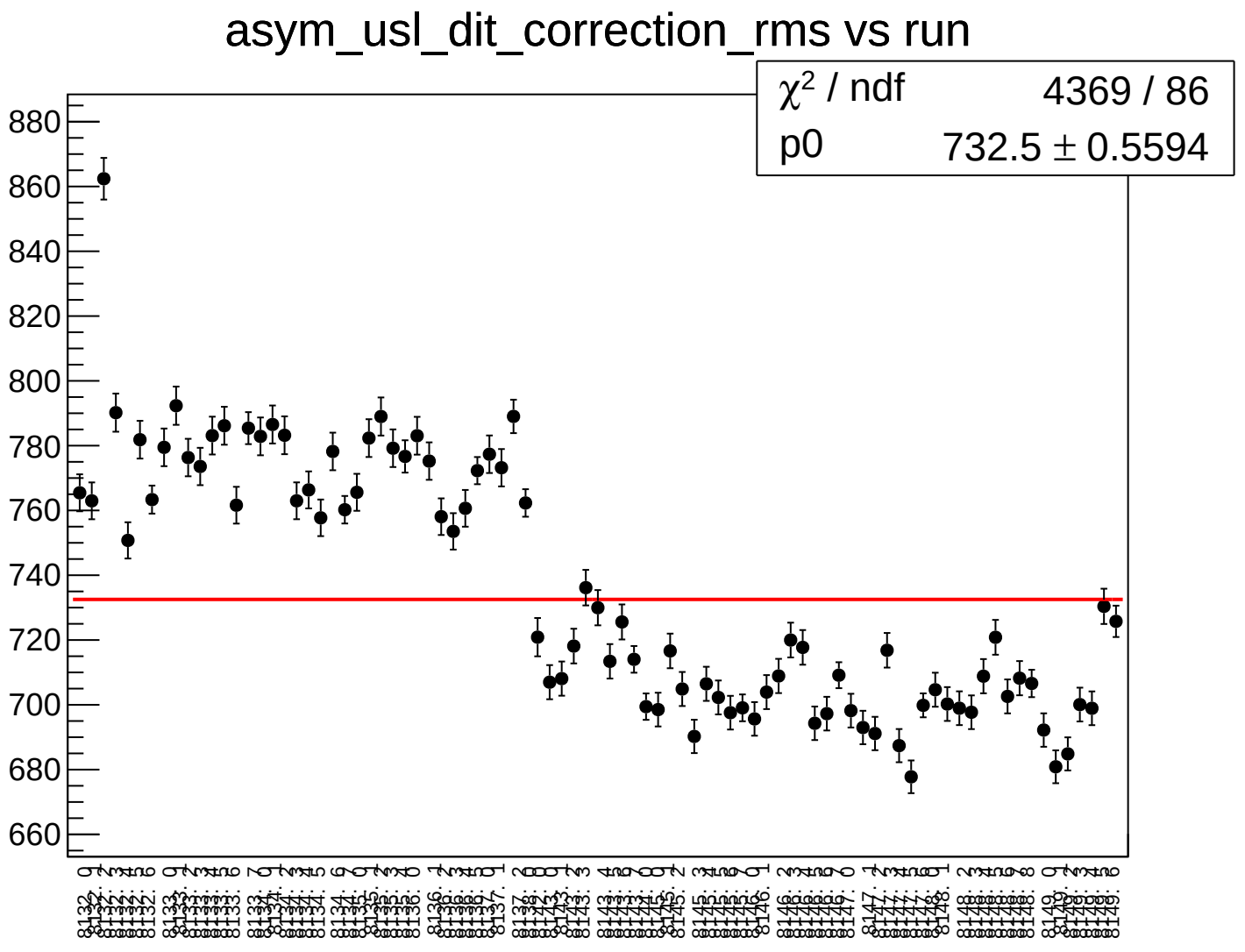

asym_usl_eigen_cor_correction_rms vs run
χ² / ndf 1.314e+04 / 86
p0 749.6 ± 0.574
1100
1000
900
800
700

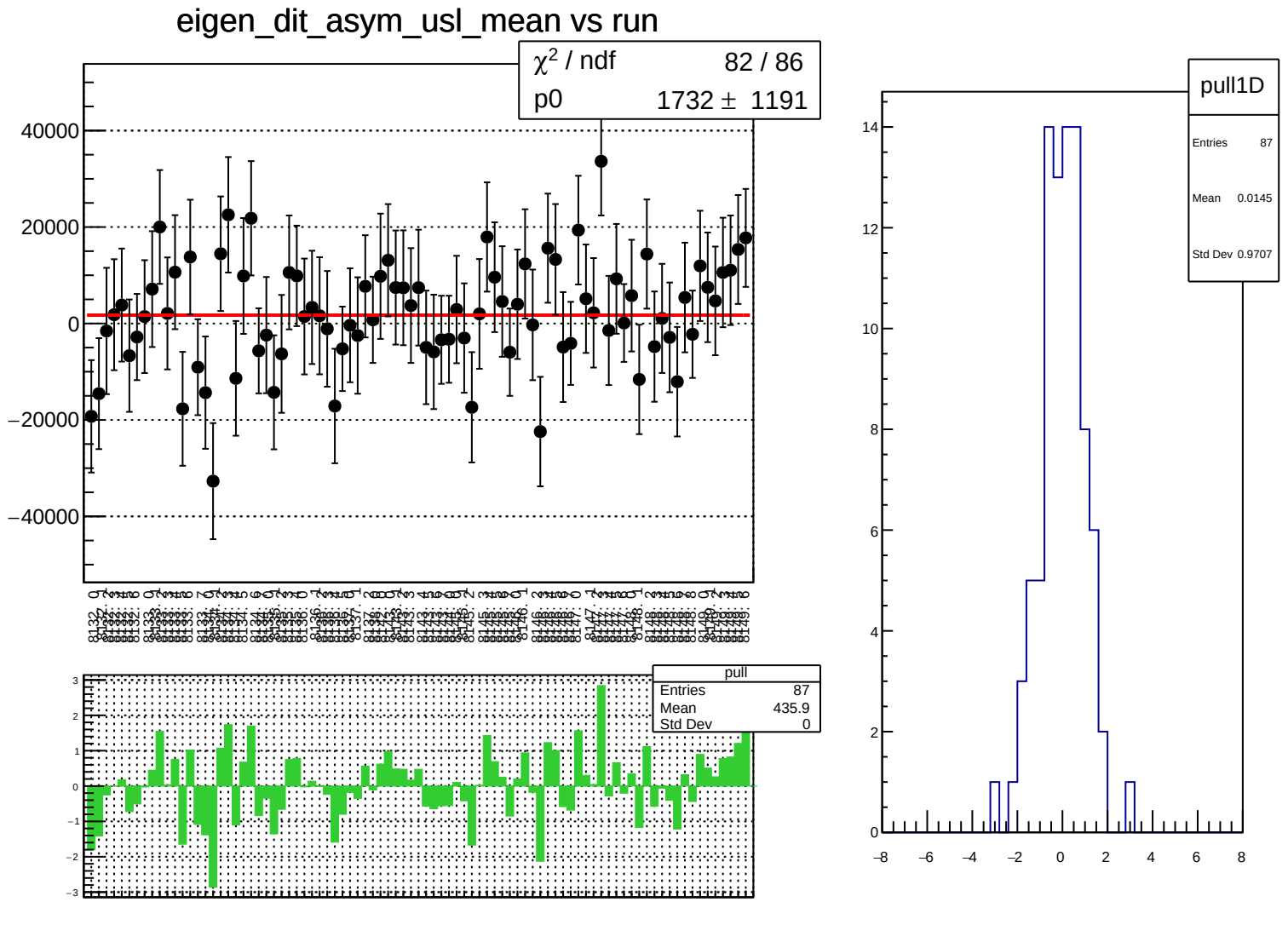

dit_asym_usl_mean vs run
χ² / ndf 82 / 86
p0 1732 ± 1191
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 435.9
Std Dev 0
3
2
1
0
−1
−2
−3

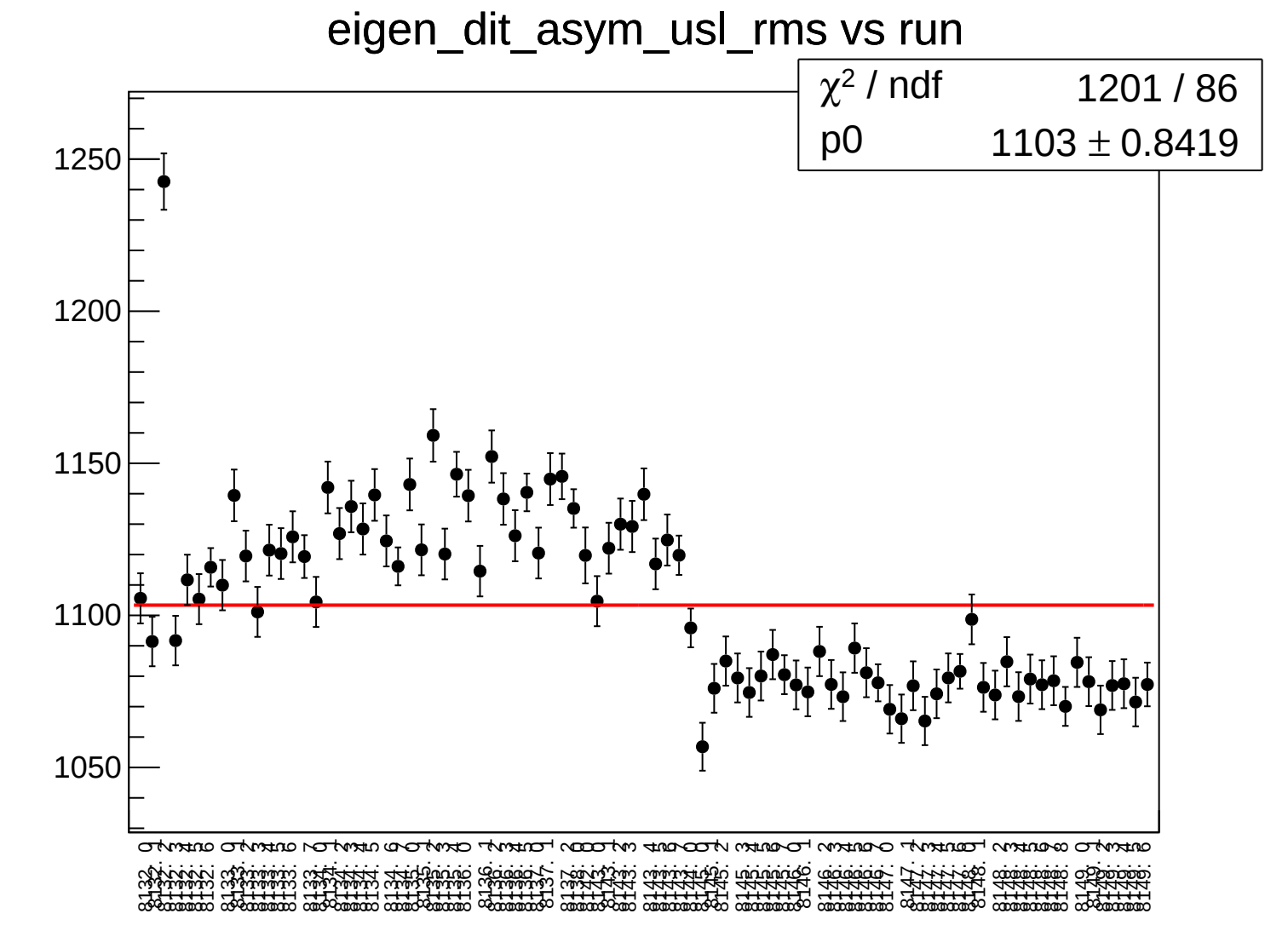

pull1D
Entries 87
Mean 0.0145
Std Dev 0.9707
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

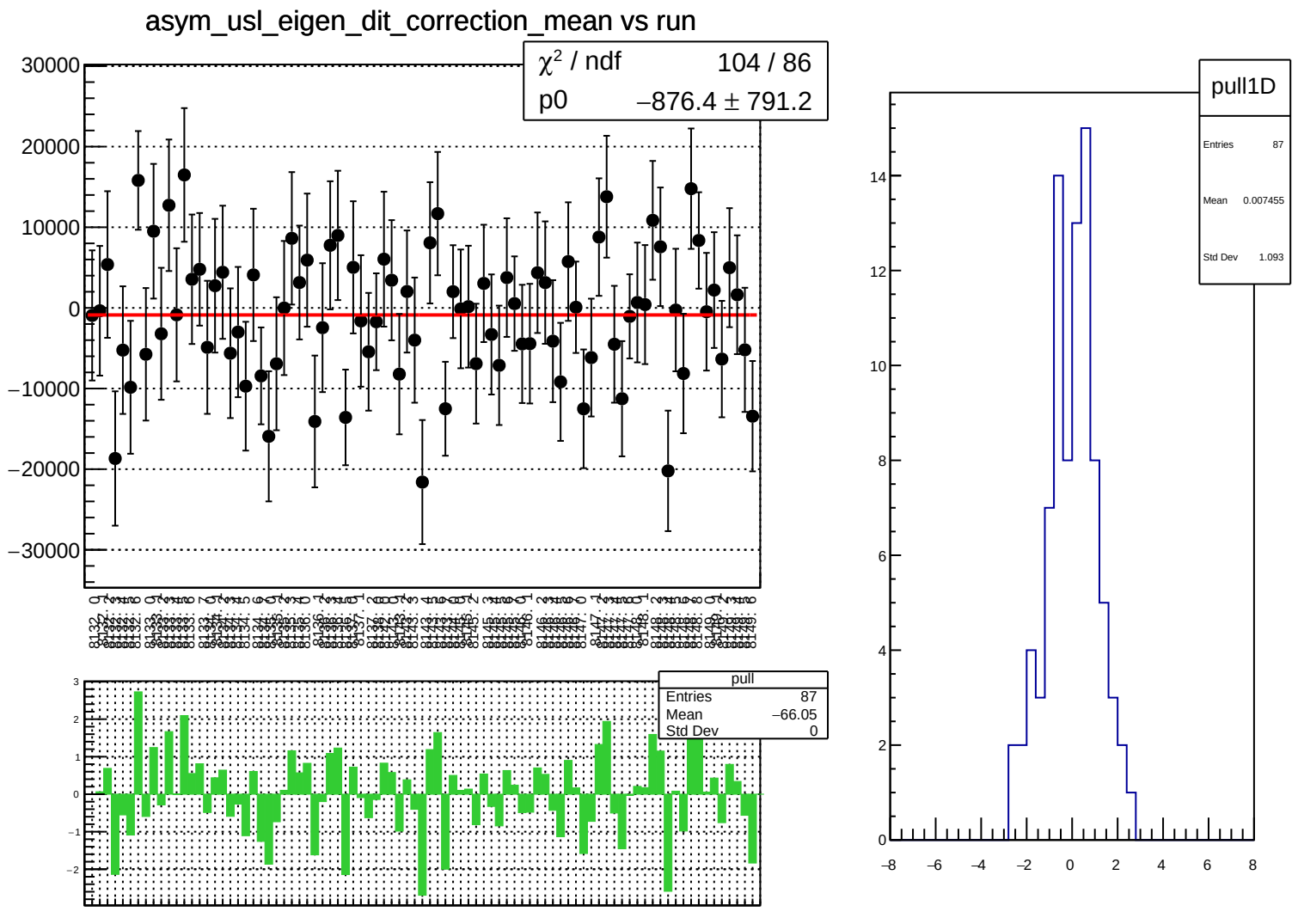

dit_asym_usl_rms vs run
χ² / ndf 1201 / 86
p0 1103 ± 0.8419
1250
1200
1150
1100
1050

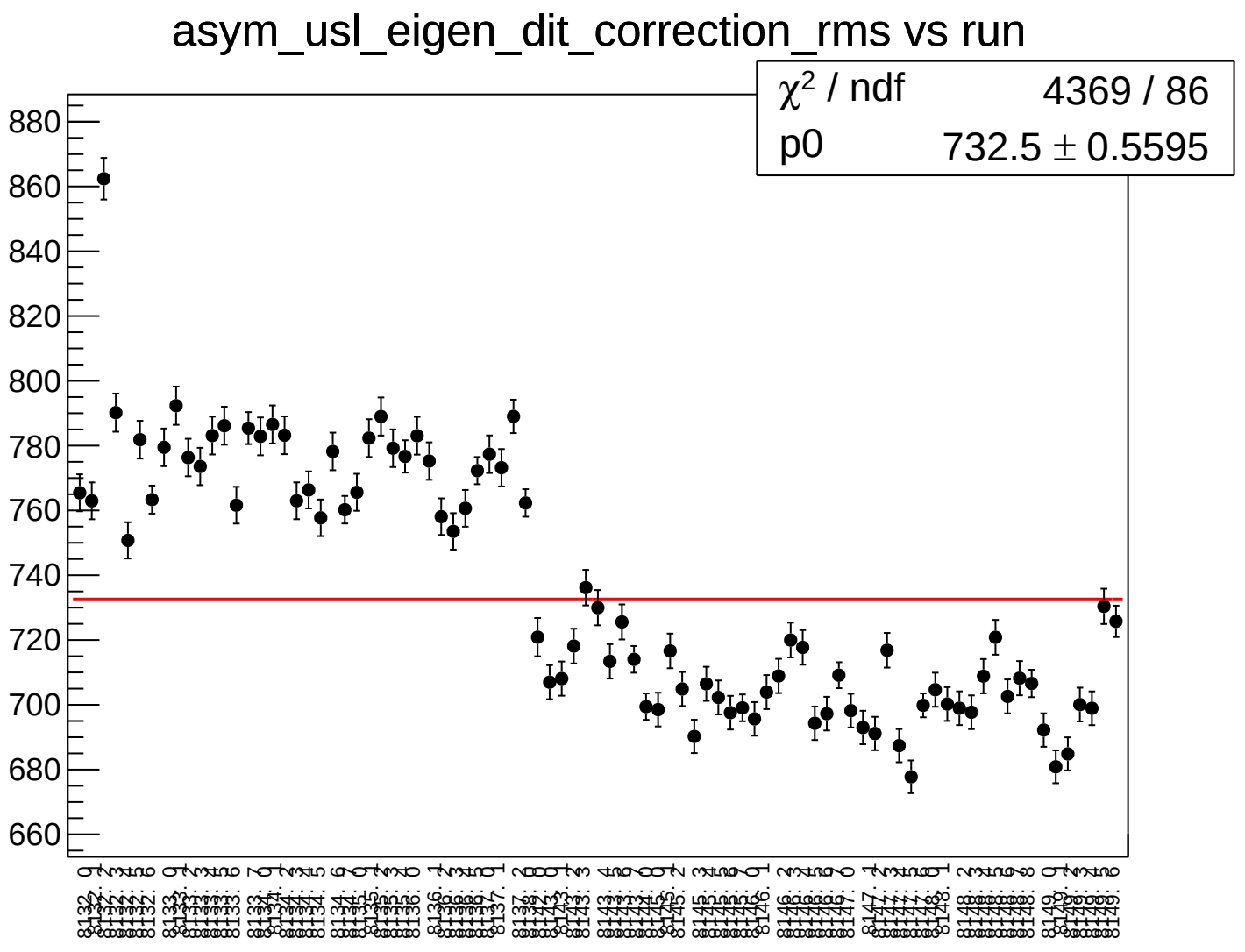

asym_usl_dit_correction_mean vs run
χ² / ndf 104 / 86
p0 −876.4 ± 791.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean −66.05
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.007455
Std Dev 1.093
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

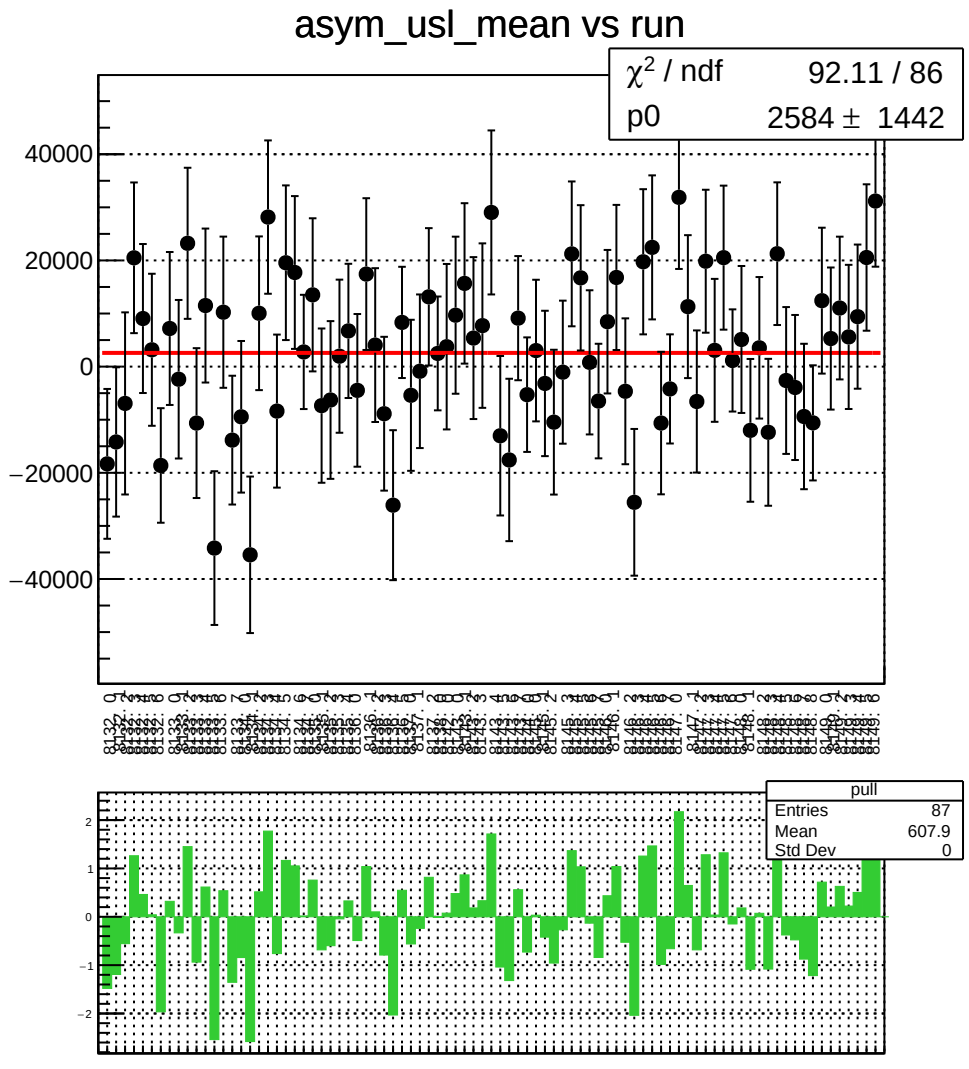

asym_usl_dit_correction_rms vs run
χ² / ndf 4369 / 86
p0 732.5 ± 0.5594
880
860
840
820
800
780
760
740
720
700
680
660

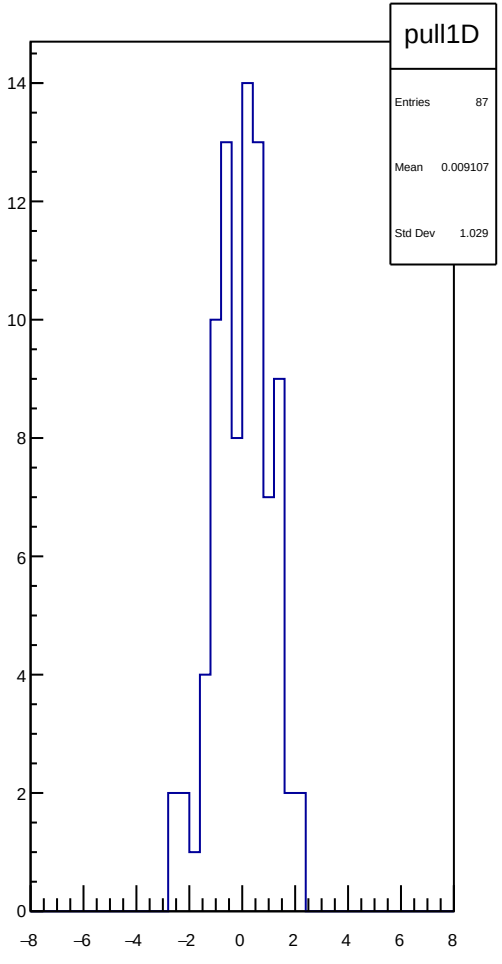

eigen_dit_asym_usl_mean vs run
χ² / ndf 82 / 86
p0 1732 ± 1191
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 435.9
Std Dev 0
pull1D
Entries 87
Mean 0.0145
Std Dev 0.9707

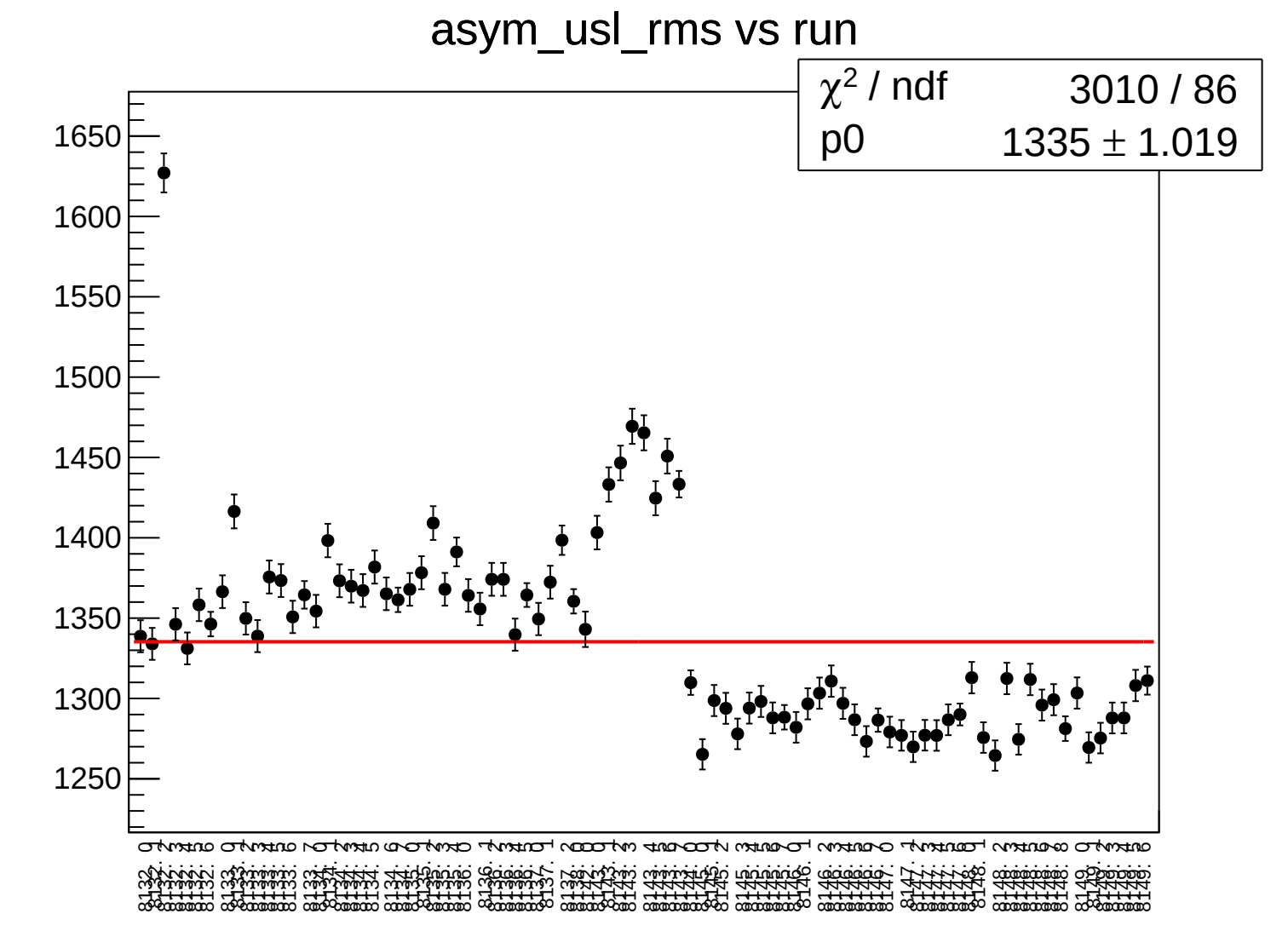

eigen_dit_asym_usl_rms vs run
χ² / ndf 1201 / 86
p0 1103 ± 0.8419
1250
1200
1150
1100
1050

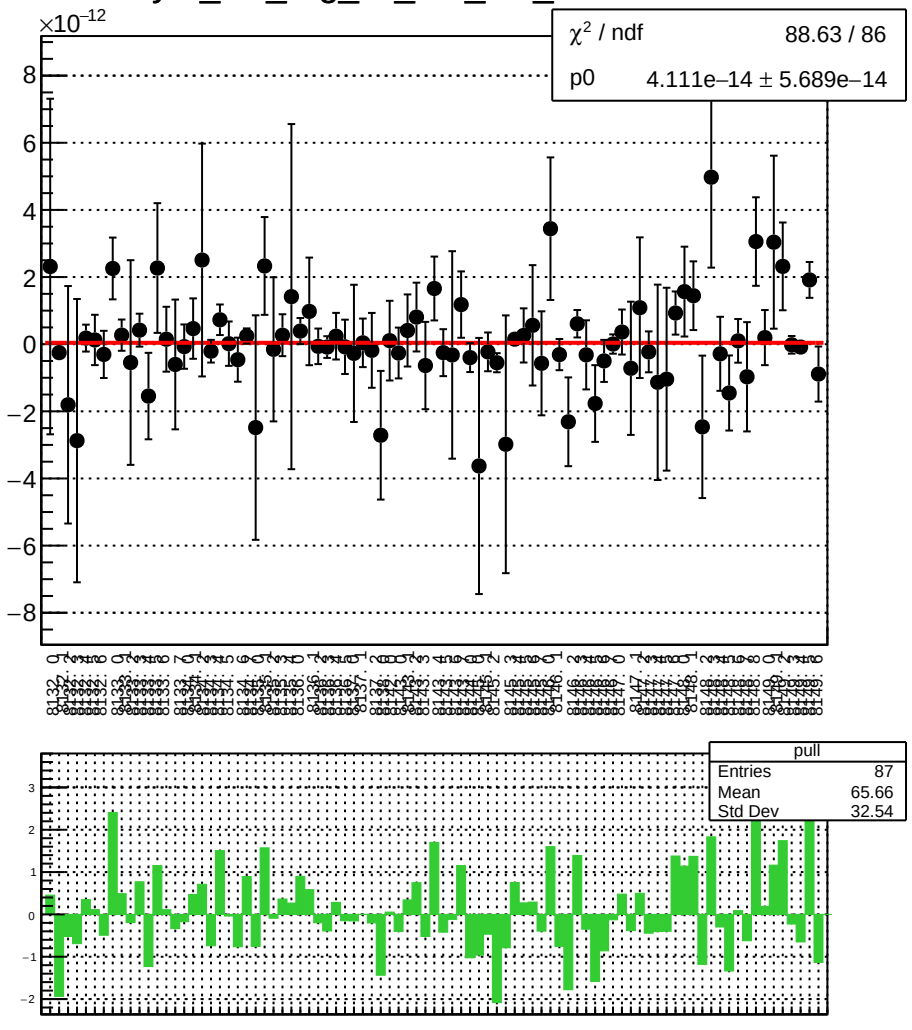

asym_usl_eigen_dit_correction_mean vs run
χ² / ndf 104 / 86
p0 −876.4 ± 791.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean −66.05
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.007455
Std Dev 1.093
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

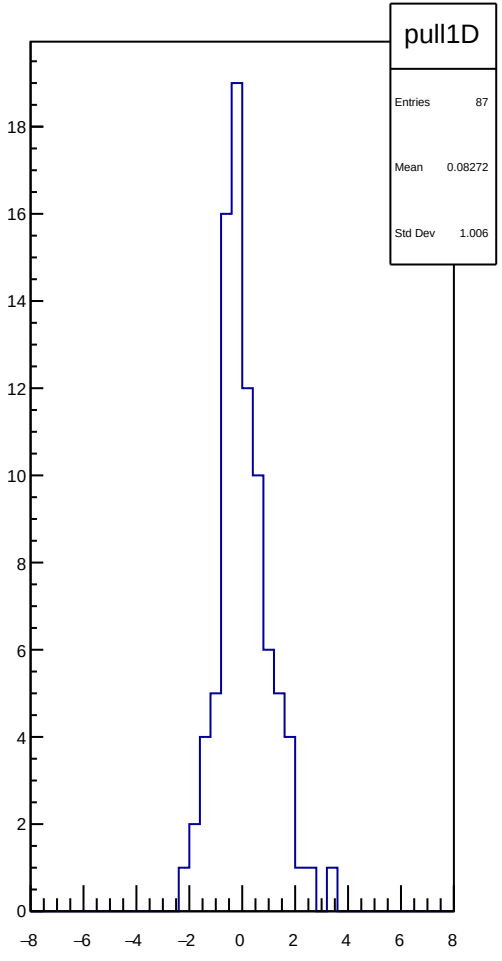

asym_usl_eigen_dit_correction_rms vs run
χ² / ndf 4369 / 86
p0 732.5 ± 0.5595
880
860
840
820
800
780
760
740
720
700
680
660

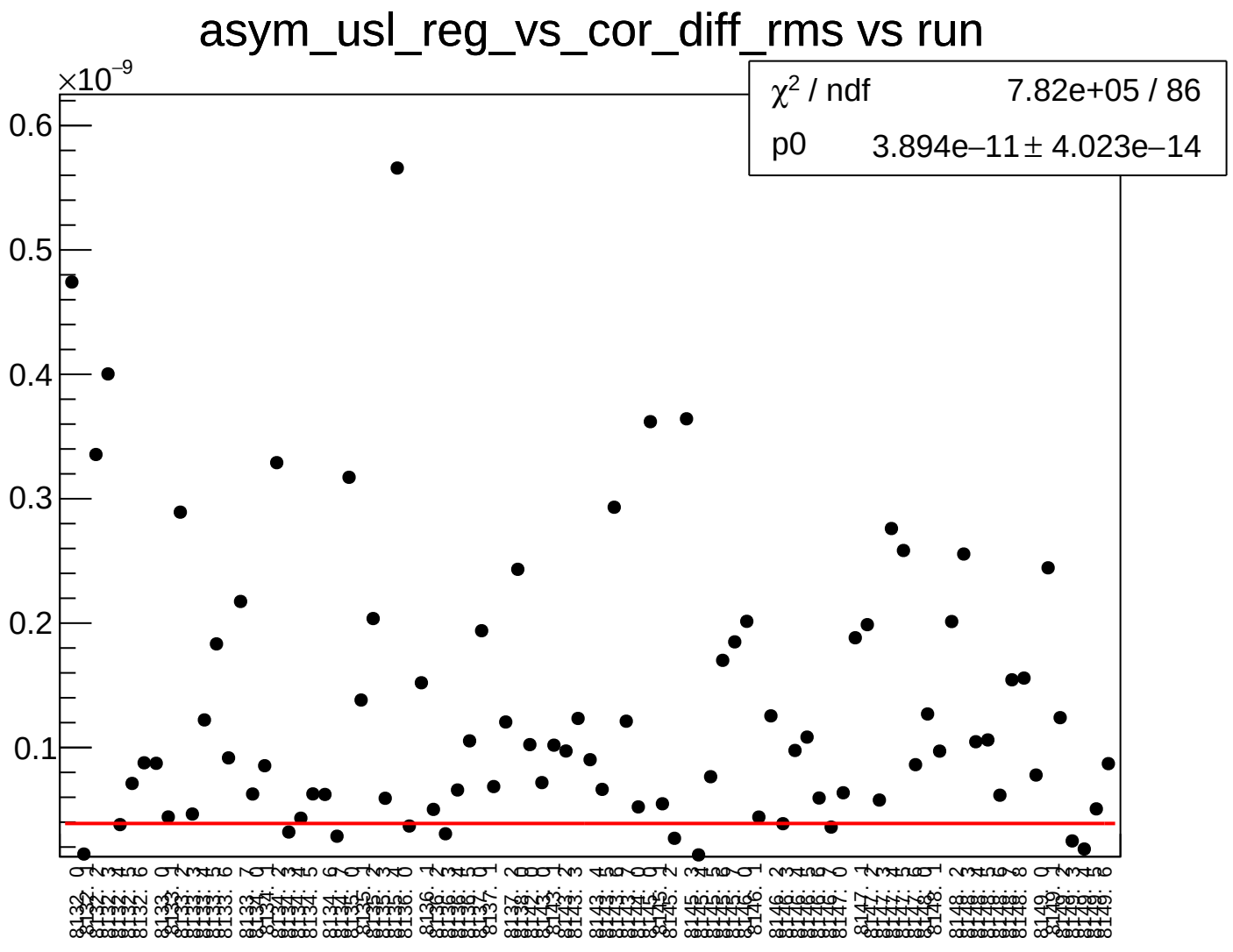

asym_usl_mean vs run
χ² / ndf 92.11 / 86
p0 2584 ± 1442
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 607.9
Std Dev 0
2
1
0
−1
−2

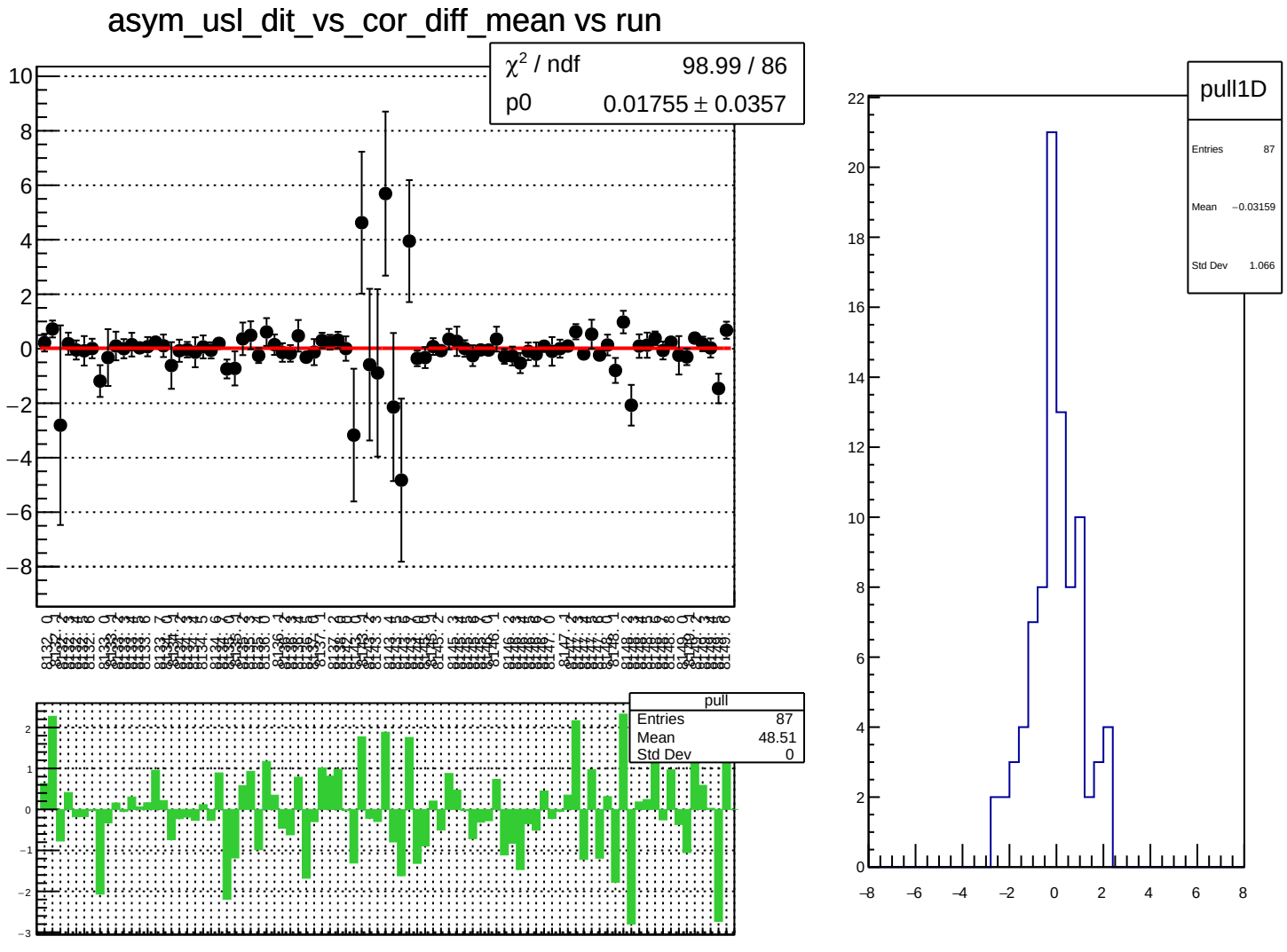

pull1D
Entries 87
Mean 0.009107
Std Dev 1.029
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

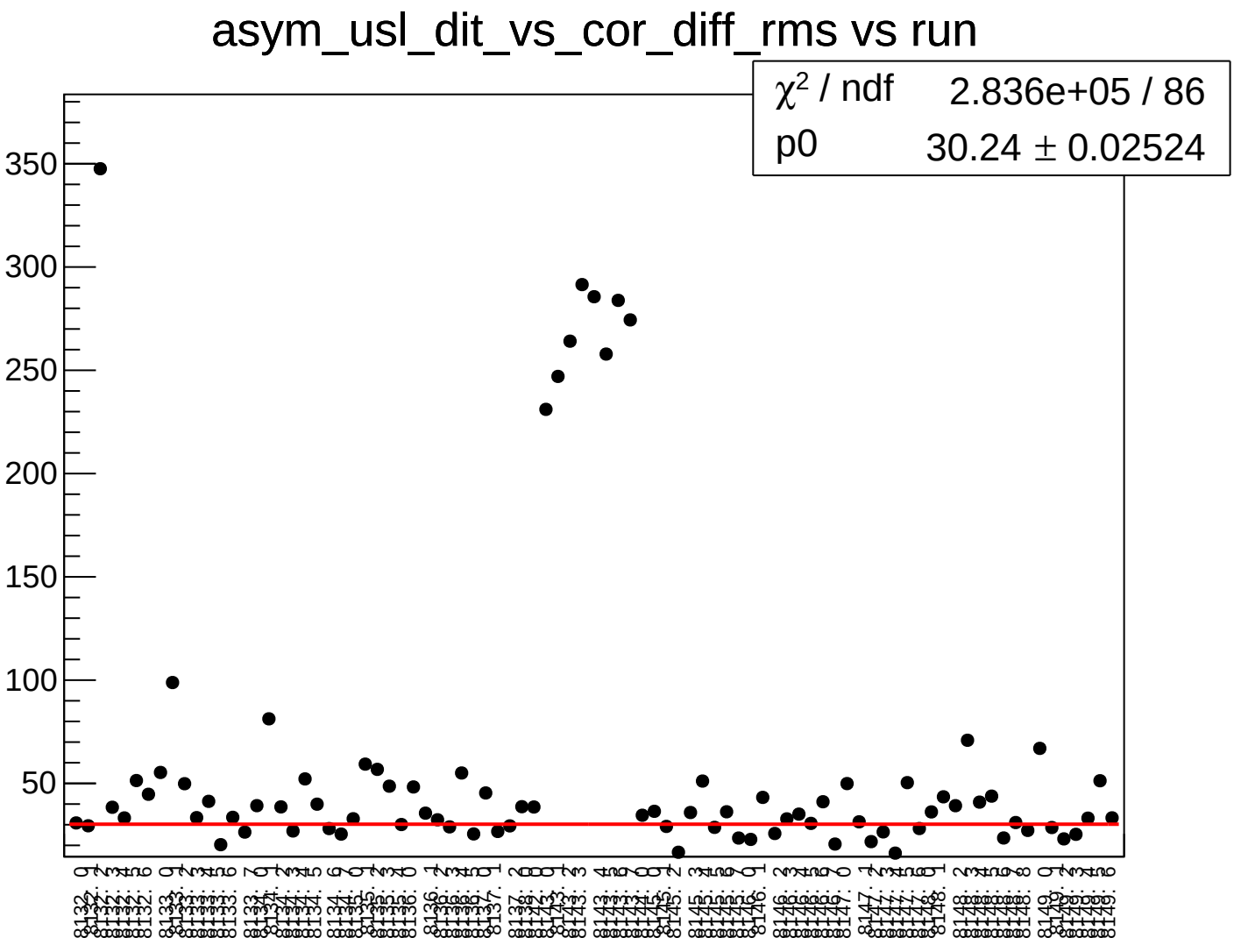

asym_usl_rms vs run
χ² / ndf 3010 / 86
p0 1335 ± 1.019
1650
1600
1550
1500
1450
1400
1350
1300
1250

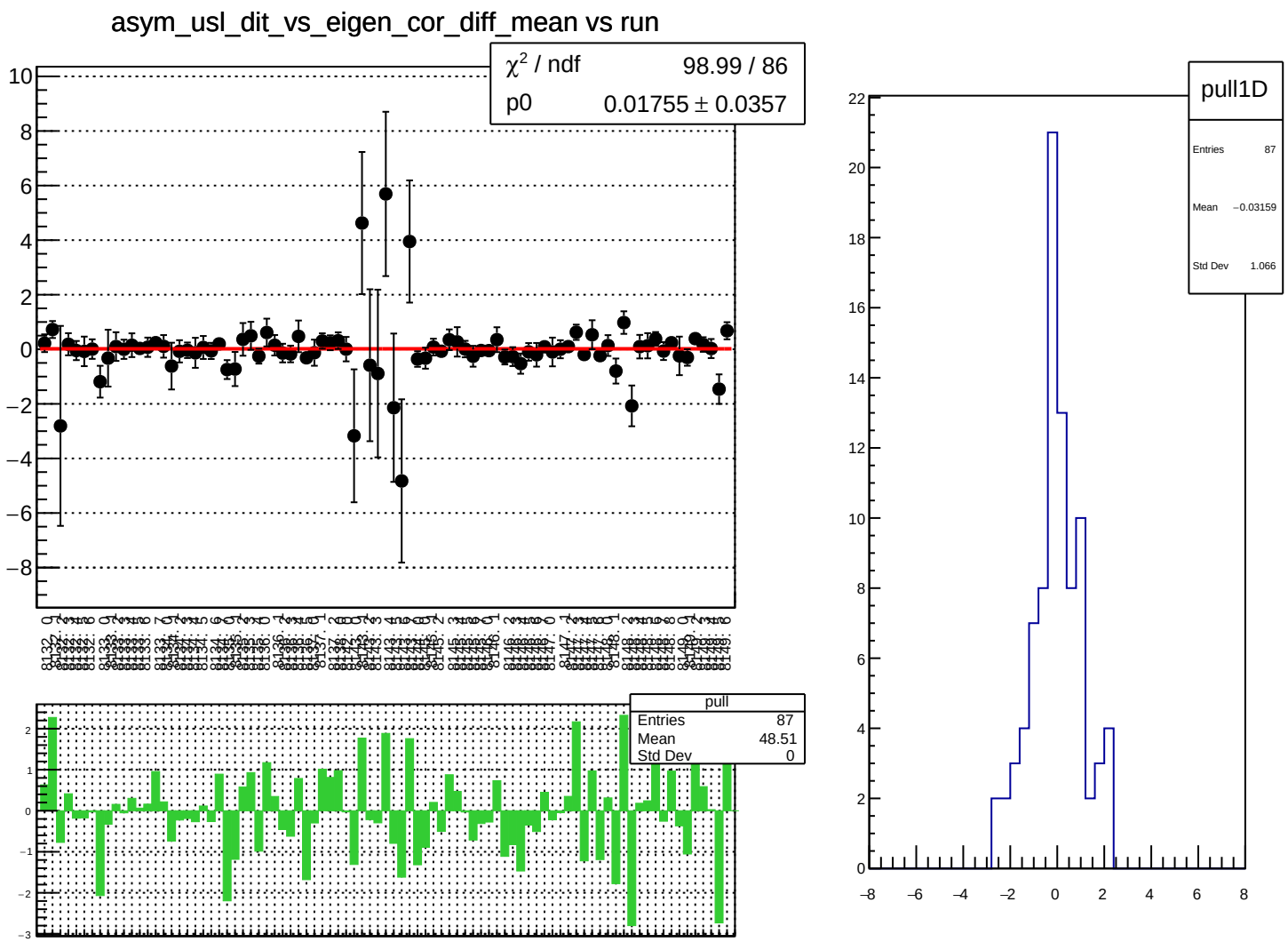

asym_usl_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.63 / 86
p0 4.111e−14 ± 5.689e−14
pull
Entries 87
Mean 65.66
Std Dev 32.54

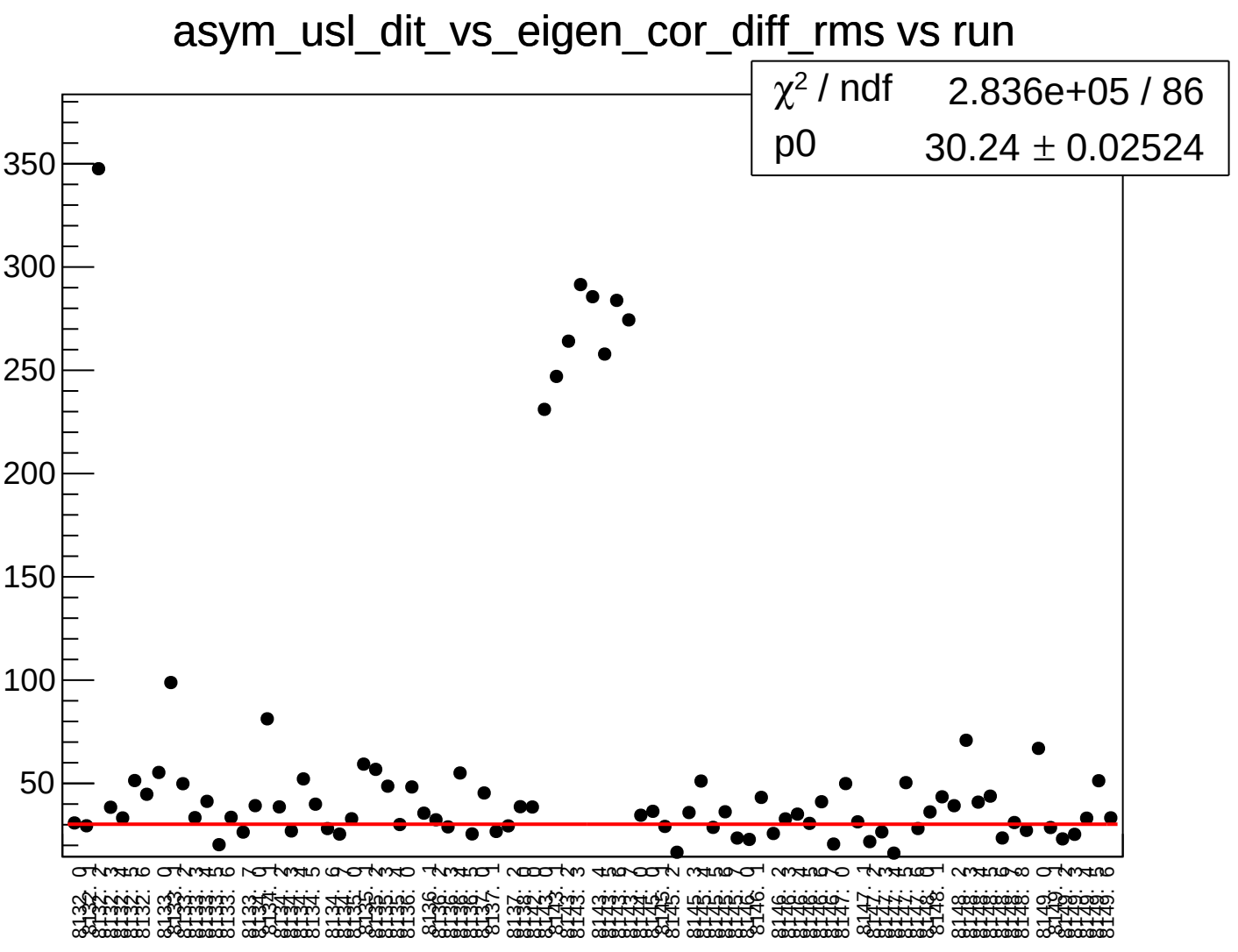

pull1D
Entries 87
Mean 0.08272
Std Dev 1.006

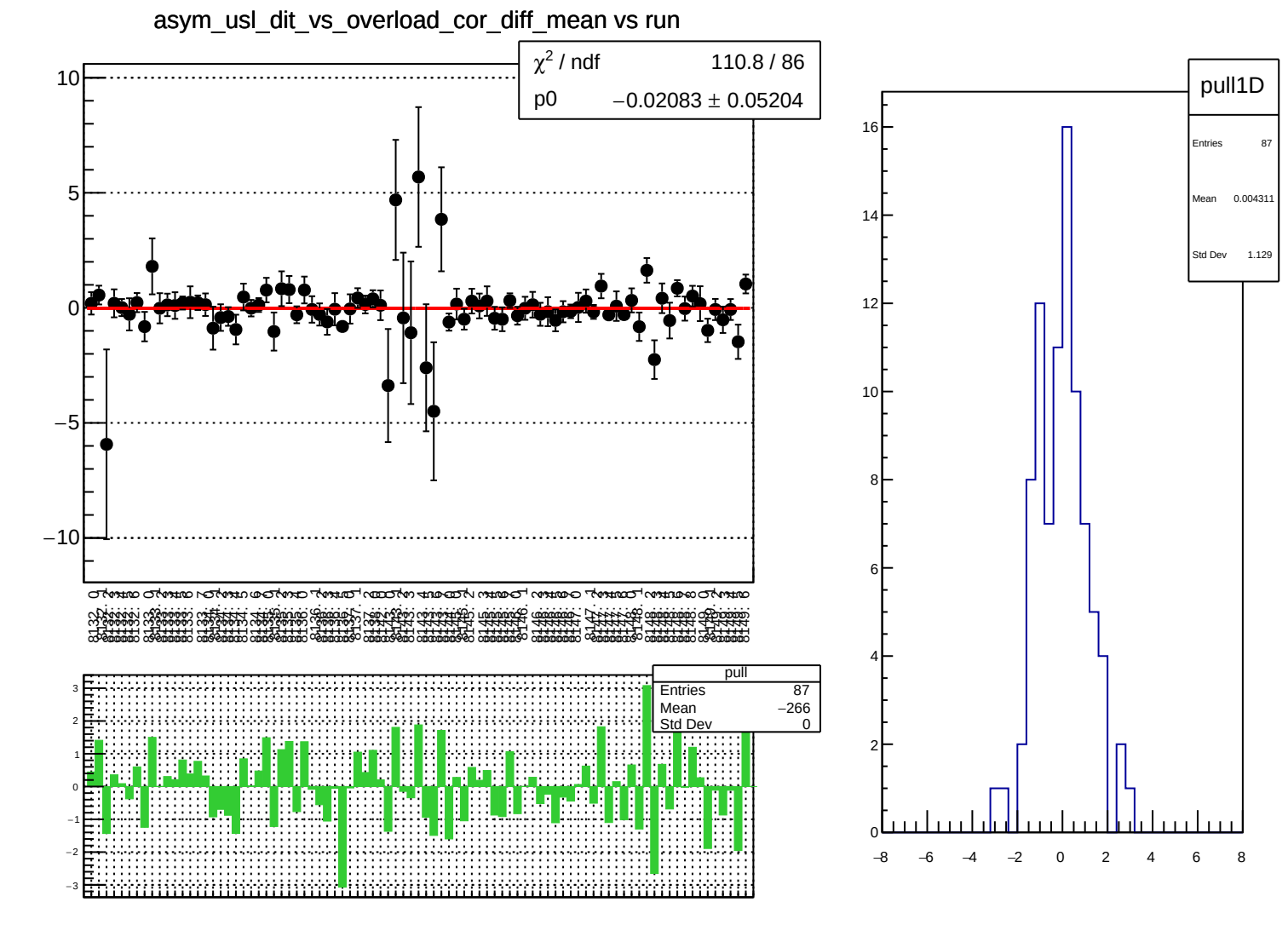

asym_usl_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.82e+05 / 86
p0 3.894e−11 ± 4.023e−14
0.6
0.5
0.4
0.3
0.2
0.1

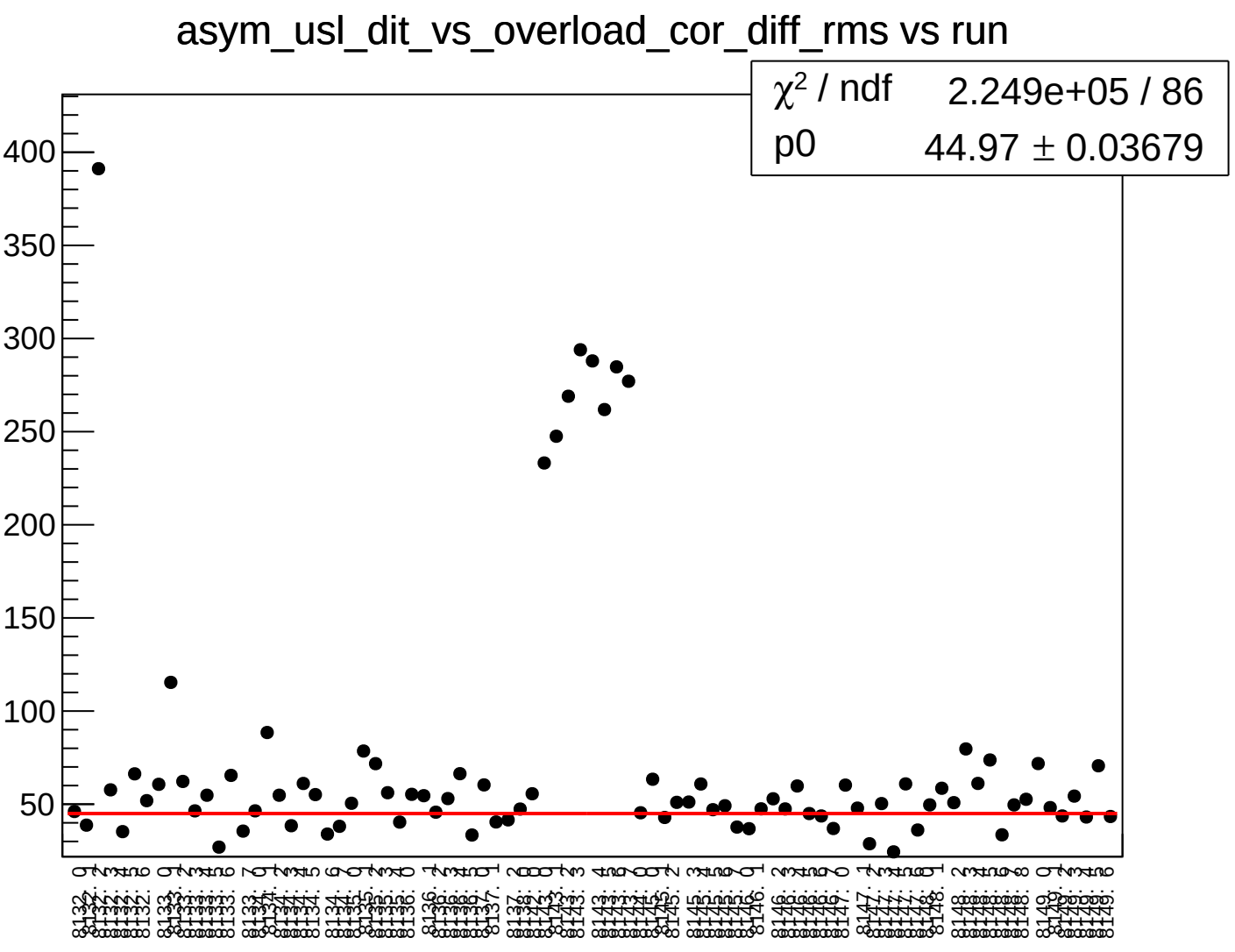

asym_usl_dit_vs_cor_diff_mean vs run
χ² / ndf 98.99 / 86
p0 0.01755 ± 0.0357
pull
Entries 87
Mean 48.51
Std Dev 0
pull1D
Entries 87
Mean −0.03159
Std Dev 1.066

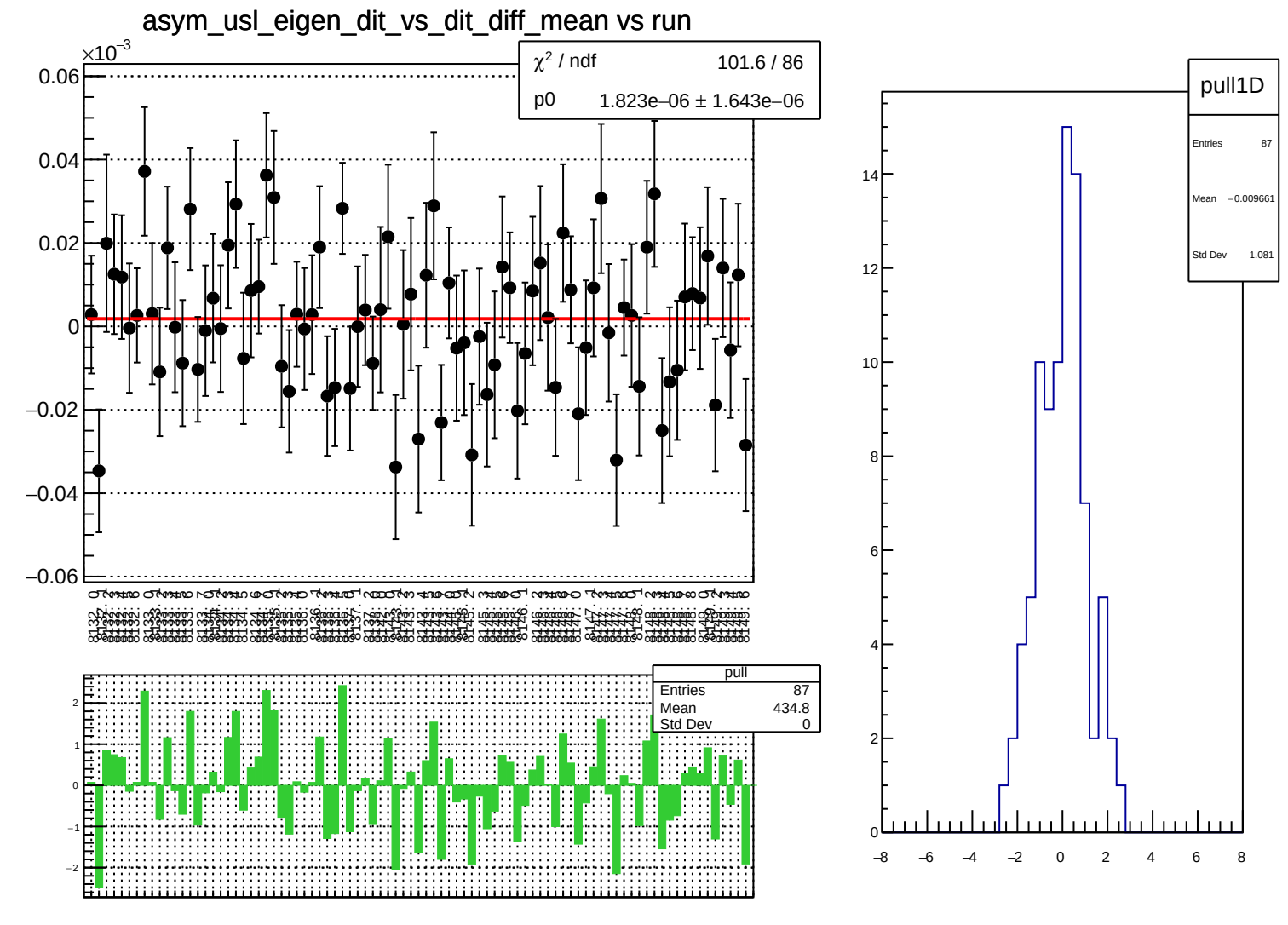

asym_usl_dit_vs_cor_diff_rms vs run
χ² / ndf 2.836e+05 / 86
p0 30.24 ± 0.02524
350
300
250
200
150
100
50

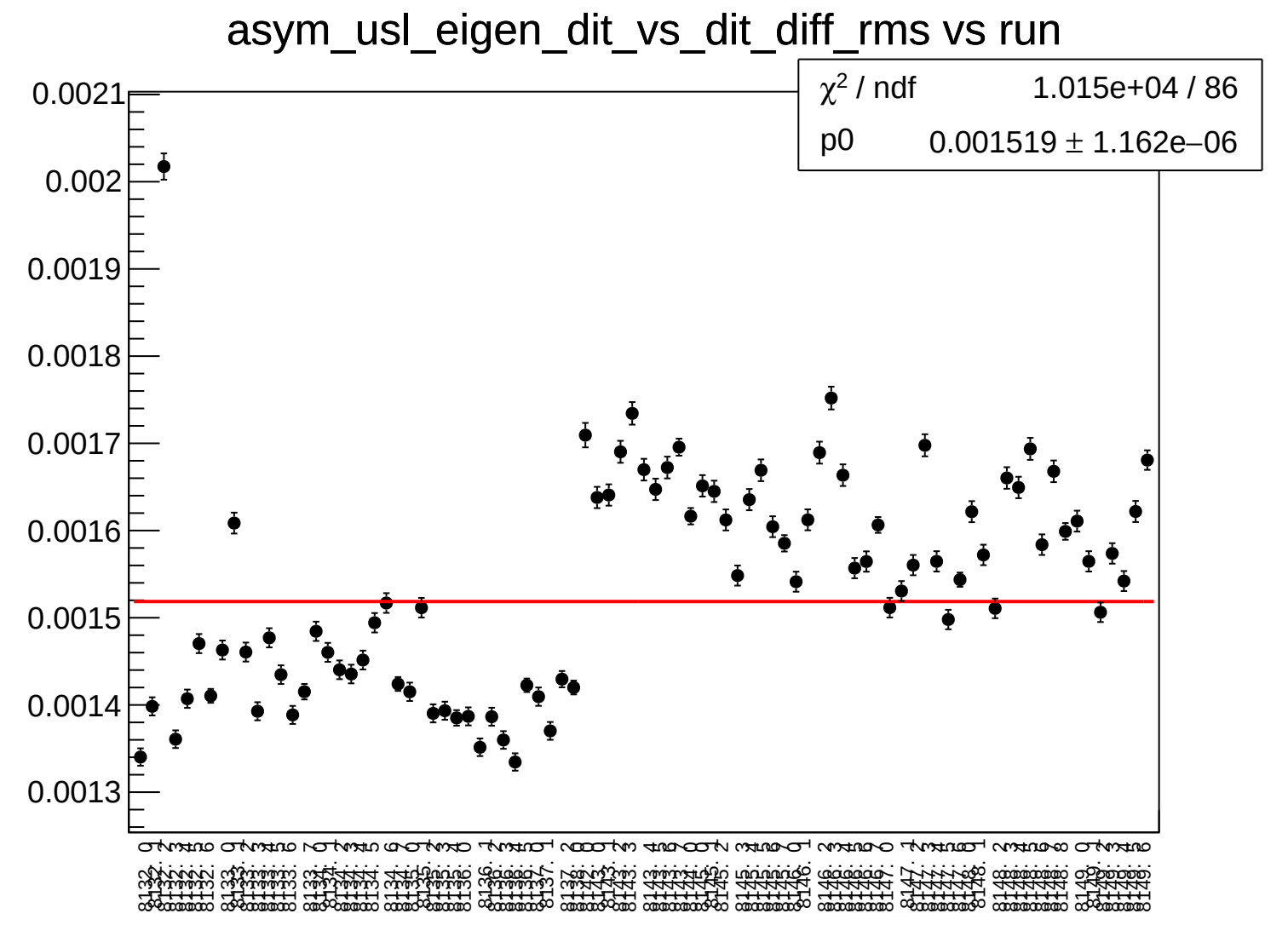

asym_usl_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.99 / 86
p0 0.01755 ± 0.0357
pull
Entries 87
Mean 48.51
Std Dev 0
pull1D
Entries 87
Mean −0.03159
Std Dev 1.066

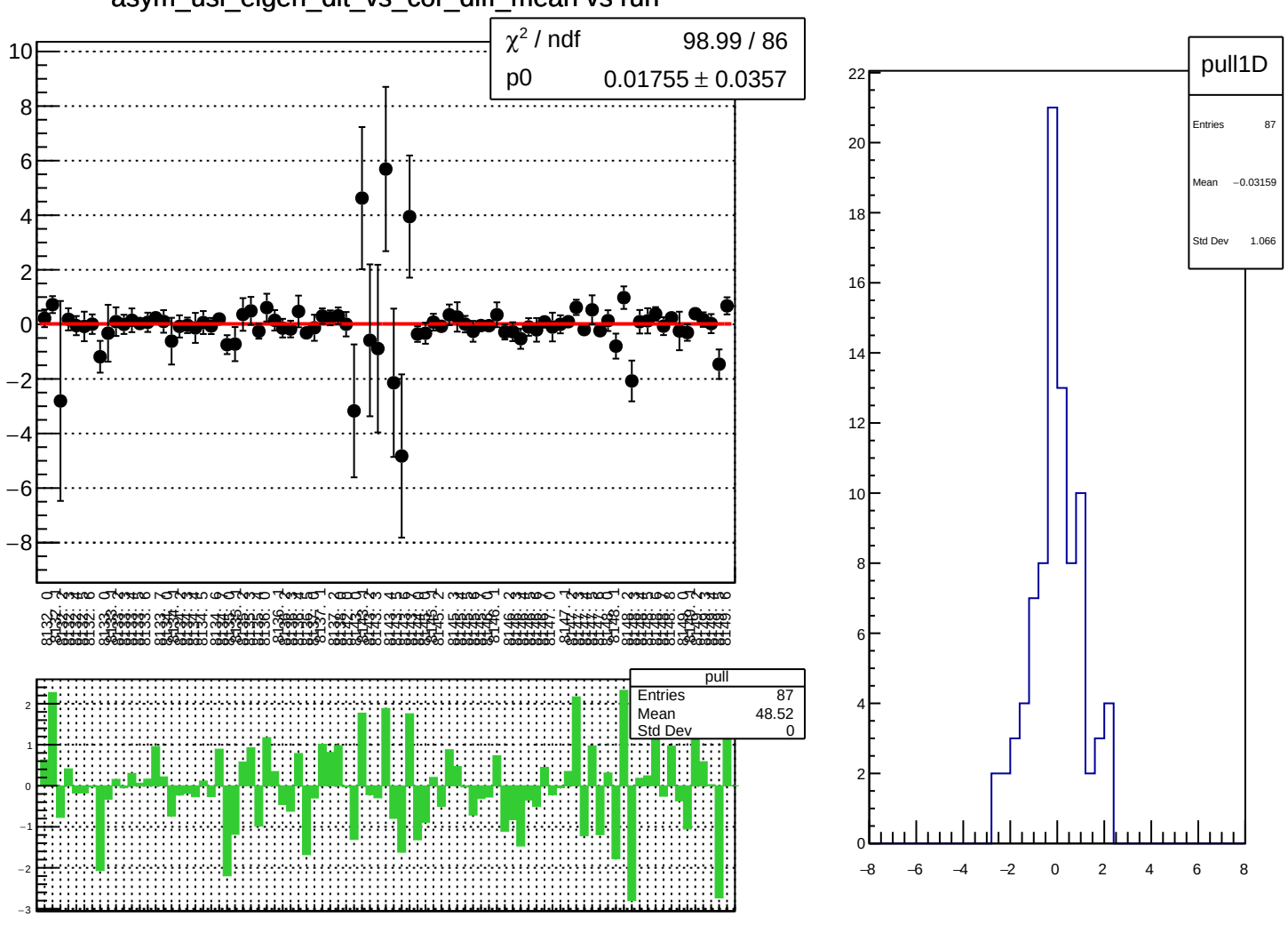

asym_usl_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.836e+05 / 86
p0 30.24 ± 0.02524
350
300
250
200
150
100
50

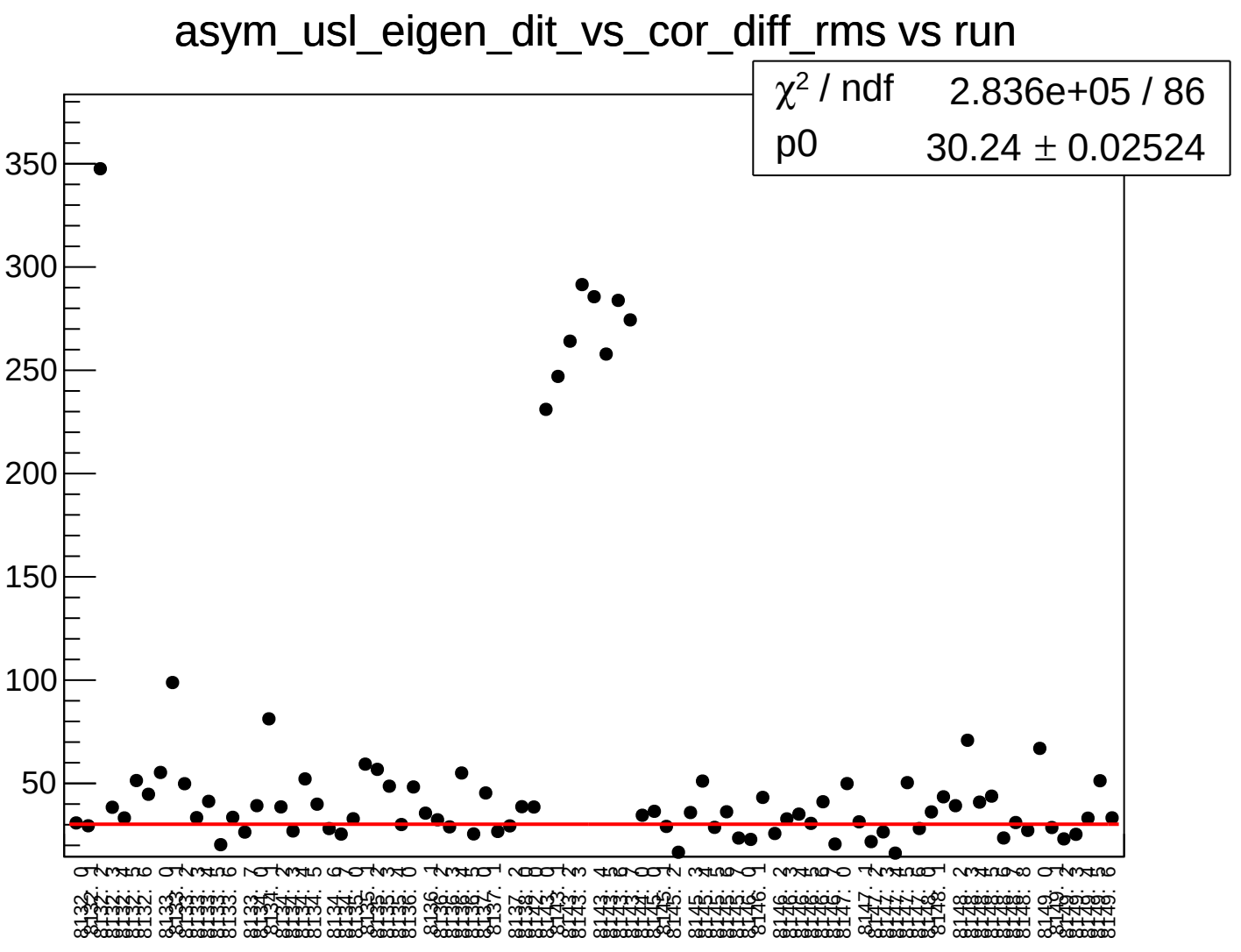

asym_usl_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 110.8 / 86
p0 −0.02083 ± 0.05204
pull
Entries 87
Mean −266
Std Dev 0
pull1D
Entries 87
Mean 0.004311
Std Dev 1.129

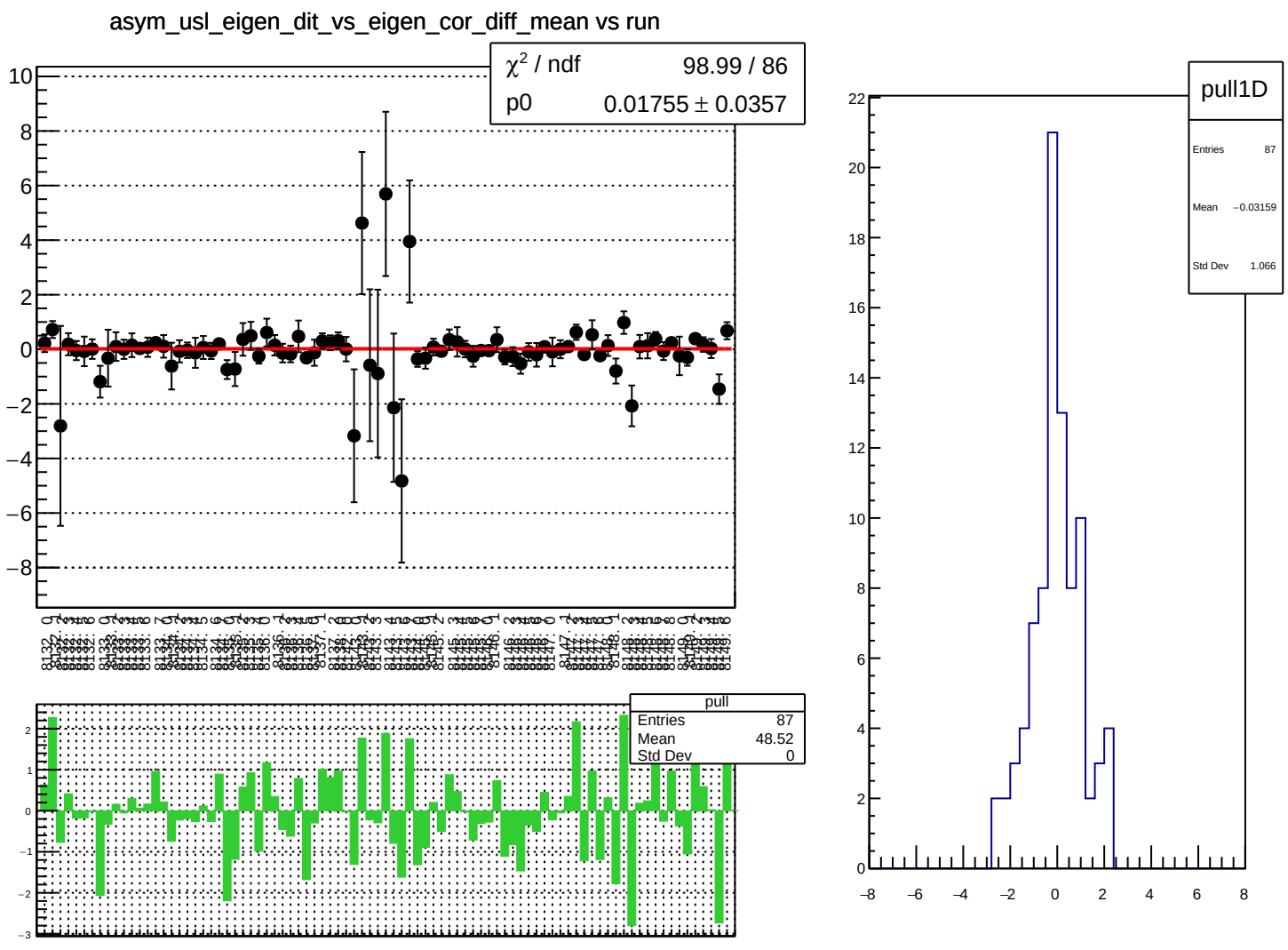

asym_usl_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.249e+05 / 86
p0 44.97 ± 0.03679
400
350
300
250
200
150
100
50

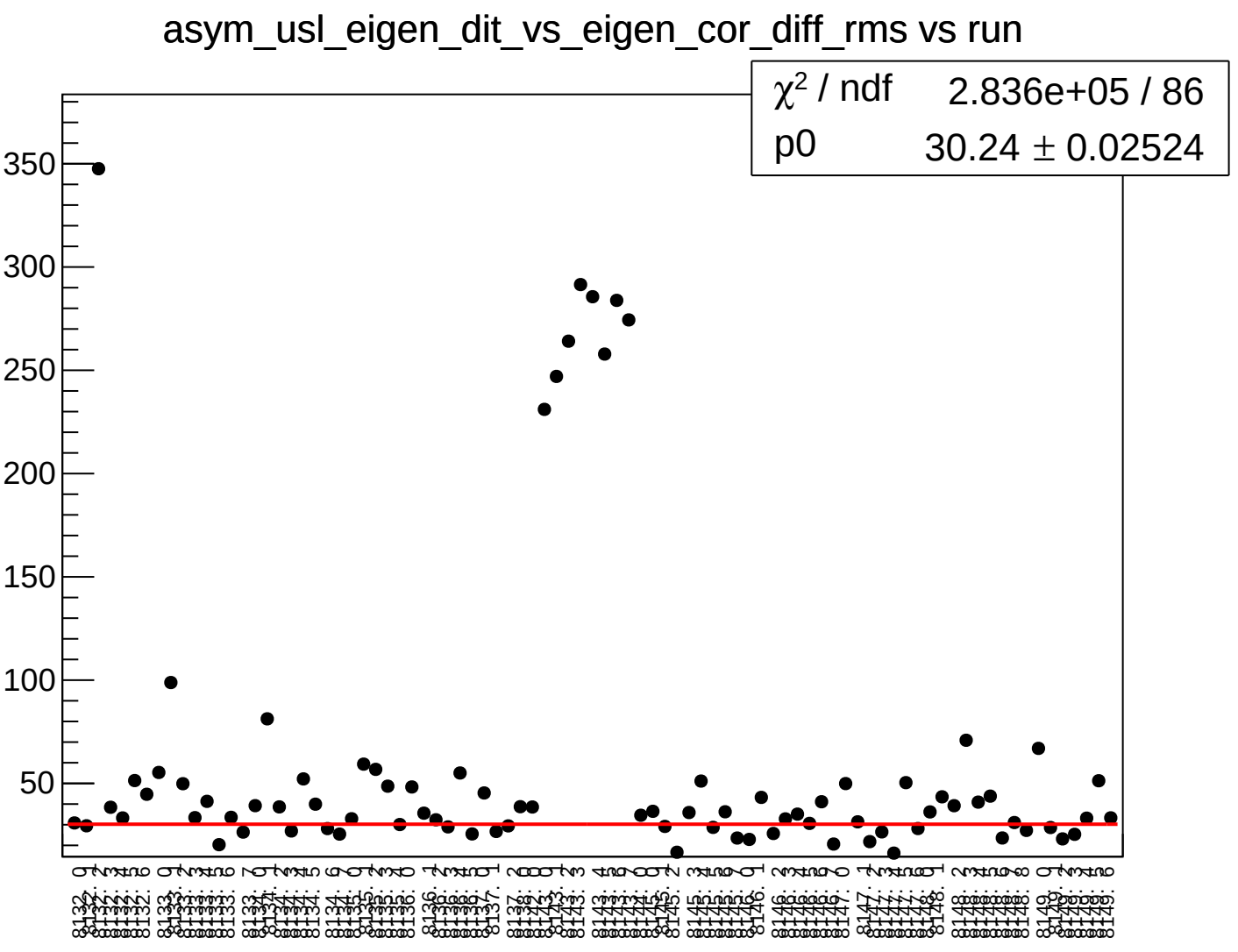

asym_usl_eigen_dit_vs_dit_diff_mean vs run
×10−3
χ2 / ndf 101.6 / 86
p0 1.823e−06 ± 1.643e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 87
Mean 434.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.009661
Std Dev 1.081
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

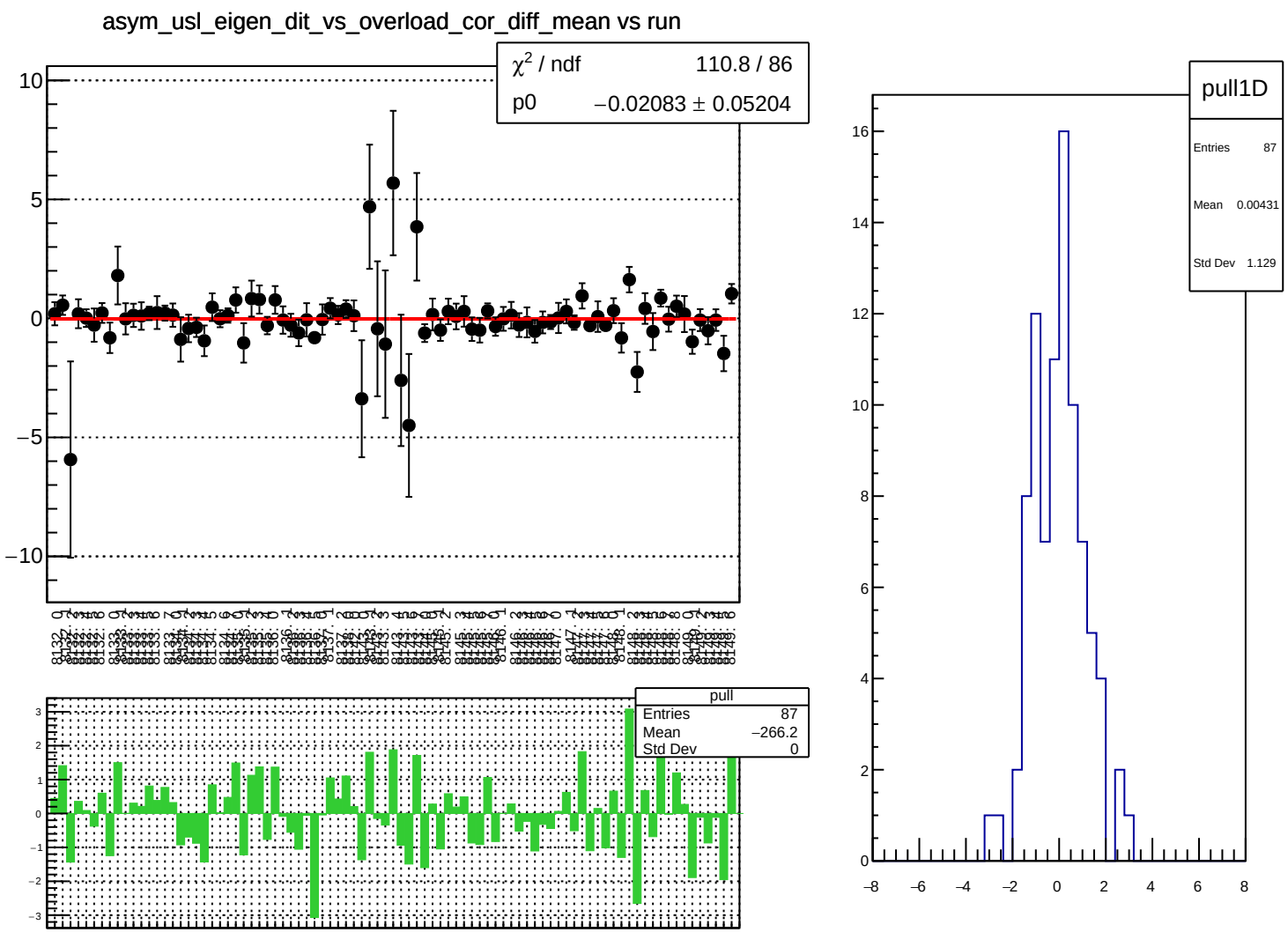

asym_usl_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.015e+04 / 86
p0 0.001519 ± 1.162e−06
0.0021
0.002
0.0019
0.0018
0.0017
0.0016
0.0015
0.0014
0.0013

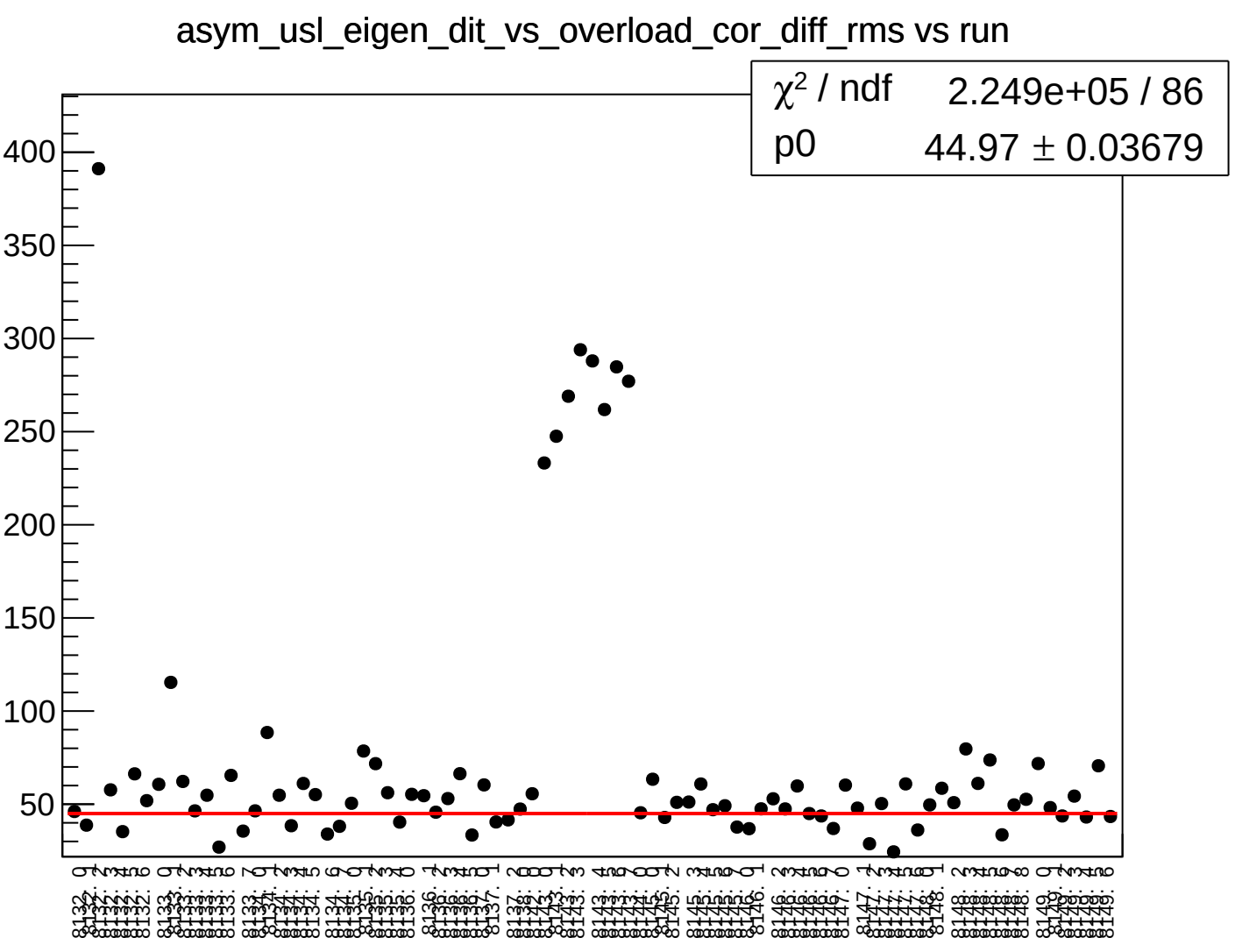

asym_usl_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 98.99 / 86
p0 0.01755 ± 0.0357
pull
Entries 87
Mean 48.52
Std Dev 0
pull1D
Entries 87
Mean −0.03159
Std Dev 1.066

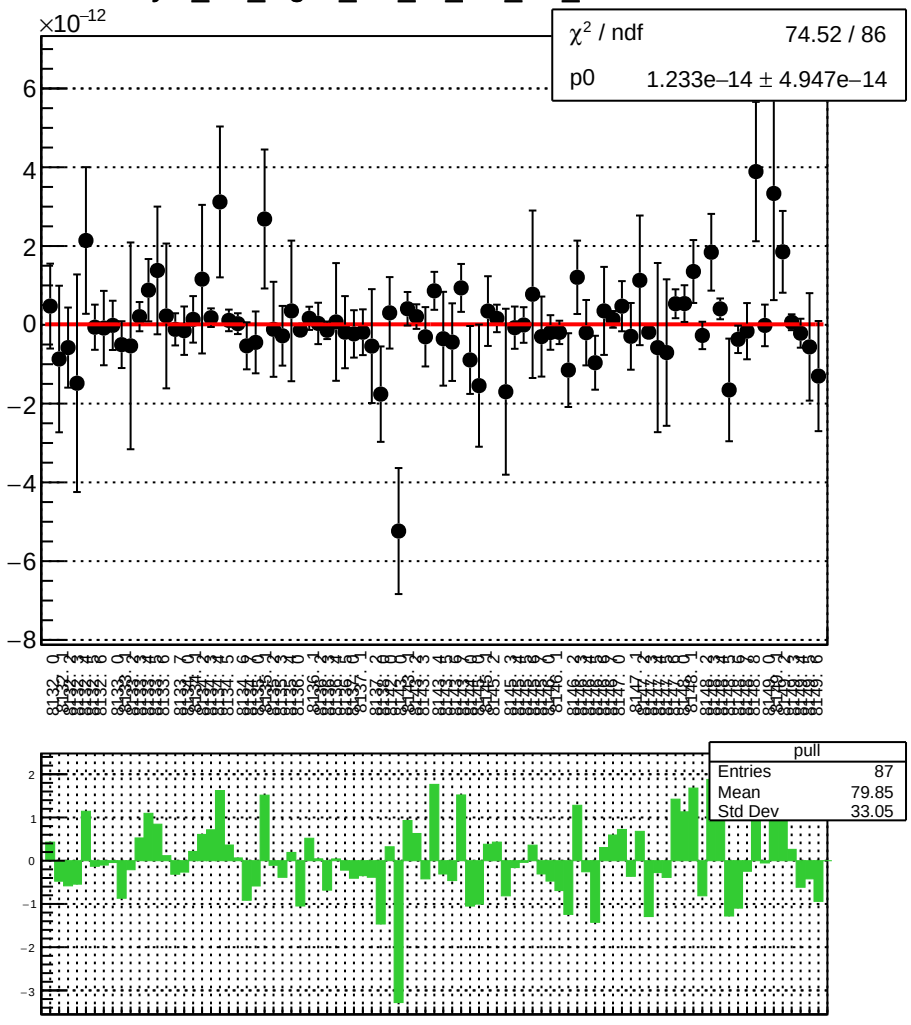

asym_usl_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.836e+05 / 86
p0 30.24 ± 0.02524
350
300
250
200
150
100
50

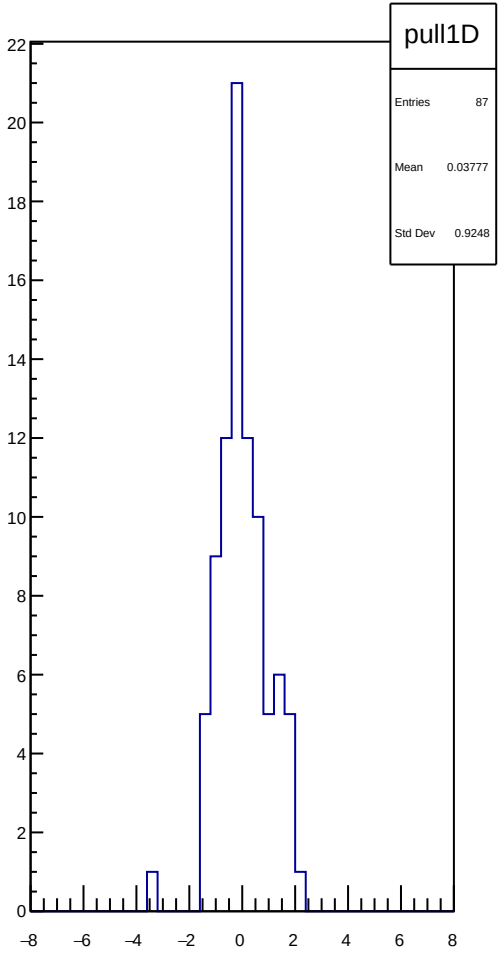

asym_usl_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.99 / 86
p0 0.01755 ± 0.0357
pull
Entries 87
Mean 48.52
Std Dev 0
pull1D
Entries 87
Mean −0.03159
Std Dev 1.066

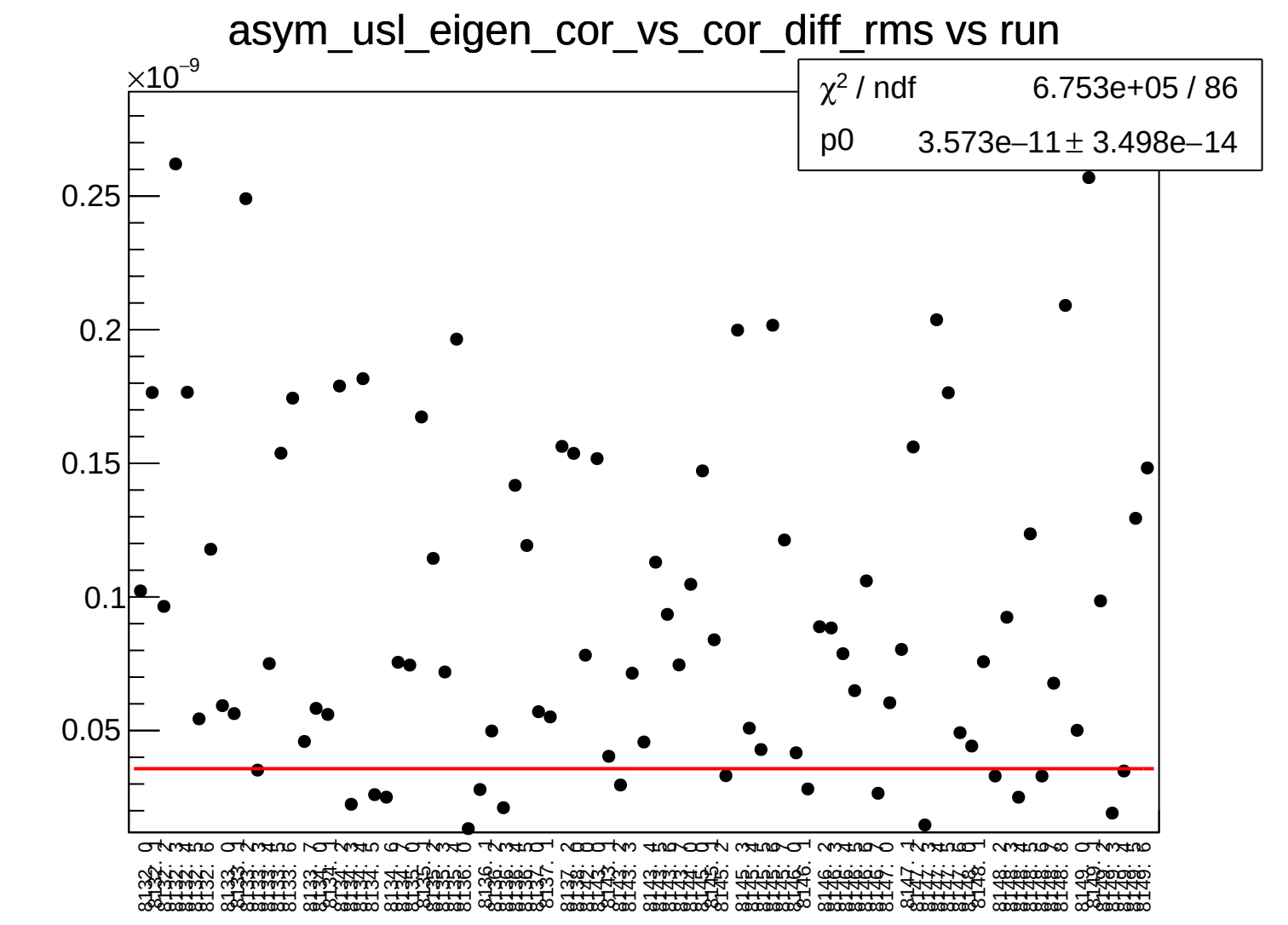

asym_usl_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.836e+05 / 86
p0 30.24 ± 0.02524
350
300
250
200
150
100
50

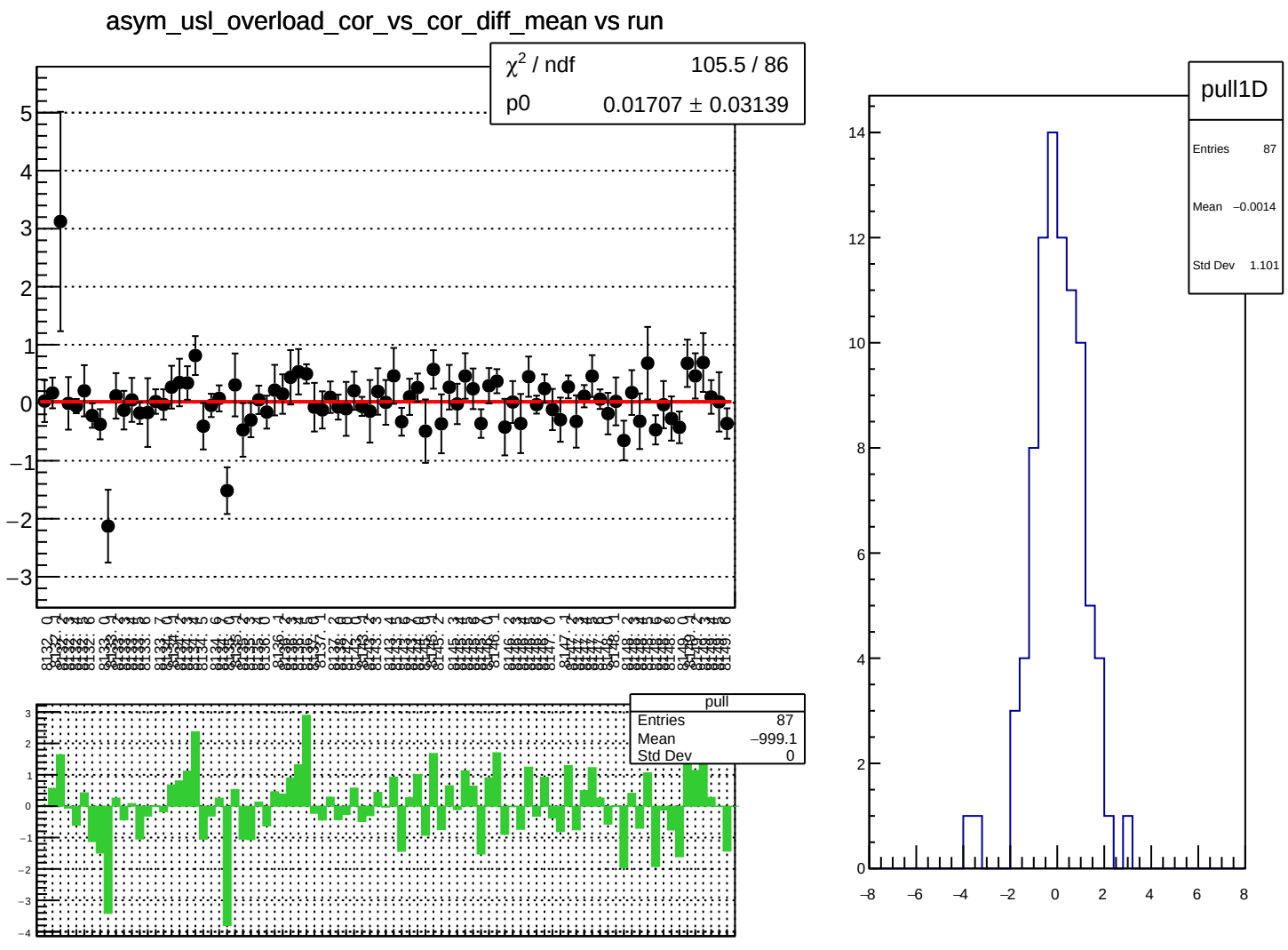

asym_usl_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 110.8 / 86
p0 −0.02083 ± 0.05204
pull
Entries 87
Mean −266.2
Std Dev 0
pull1D
Entries 87
Mean 0.00431
Std Dev 1.129

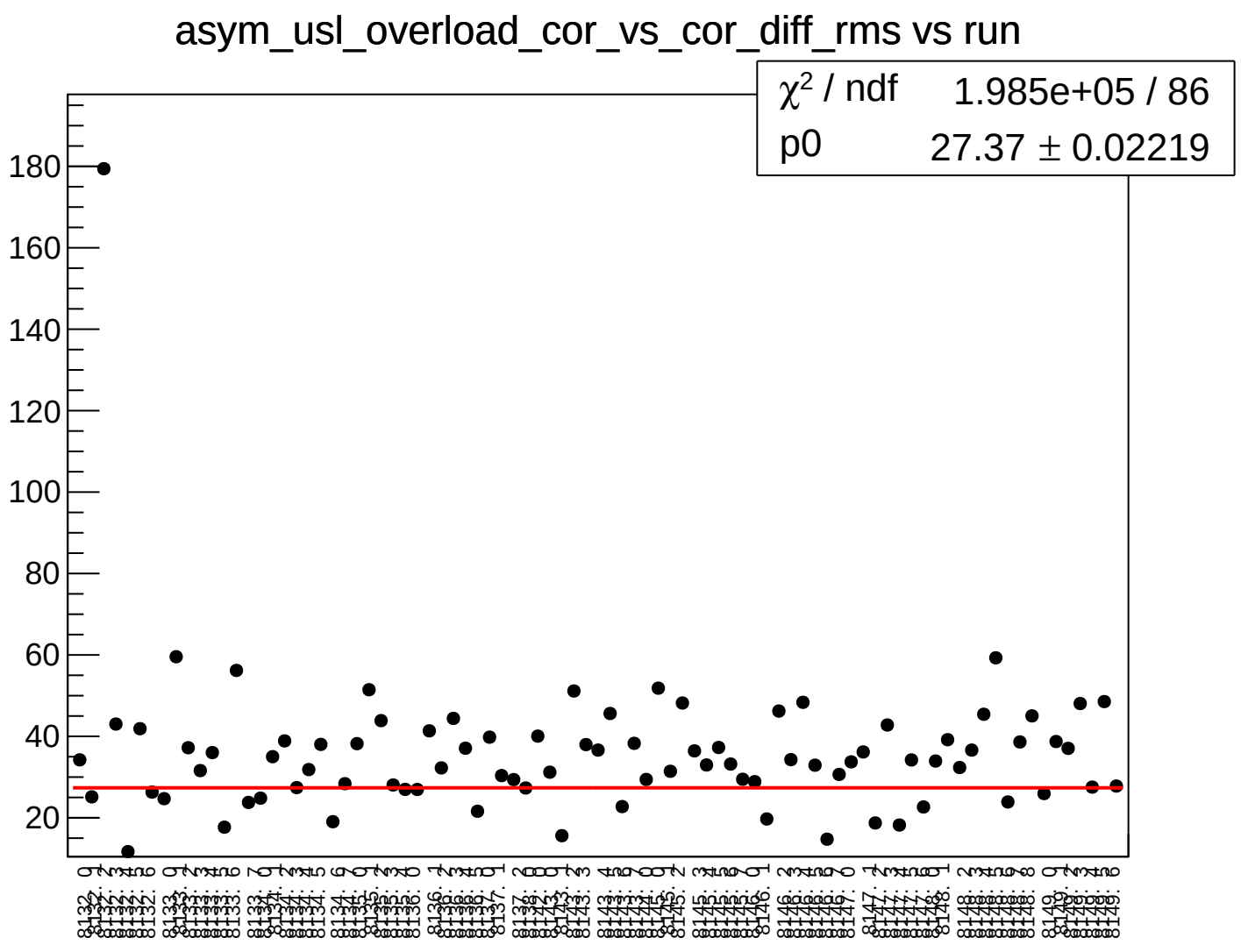

asym_usl_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.249e+05 / 86
p0 44.97 ± 0.03679
400
350
300
250
200
150
100
50

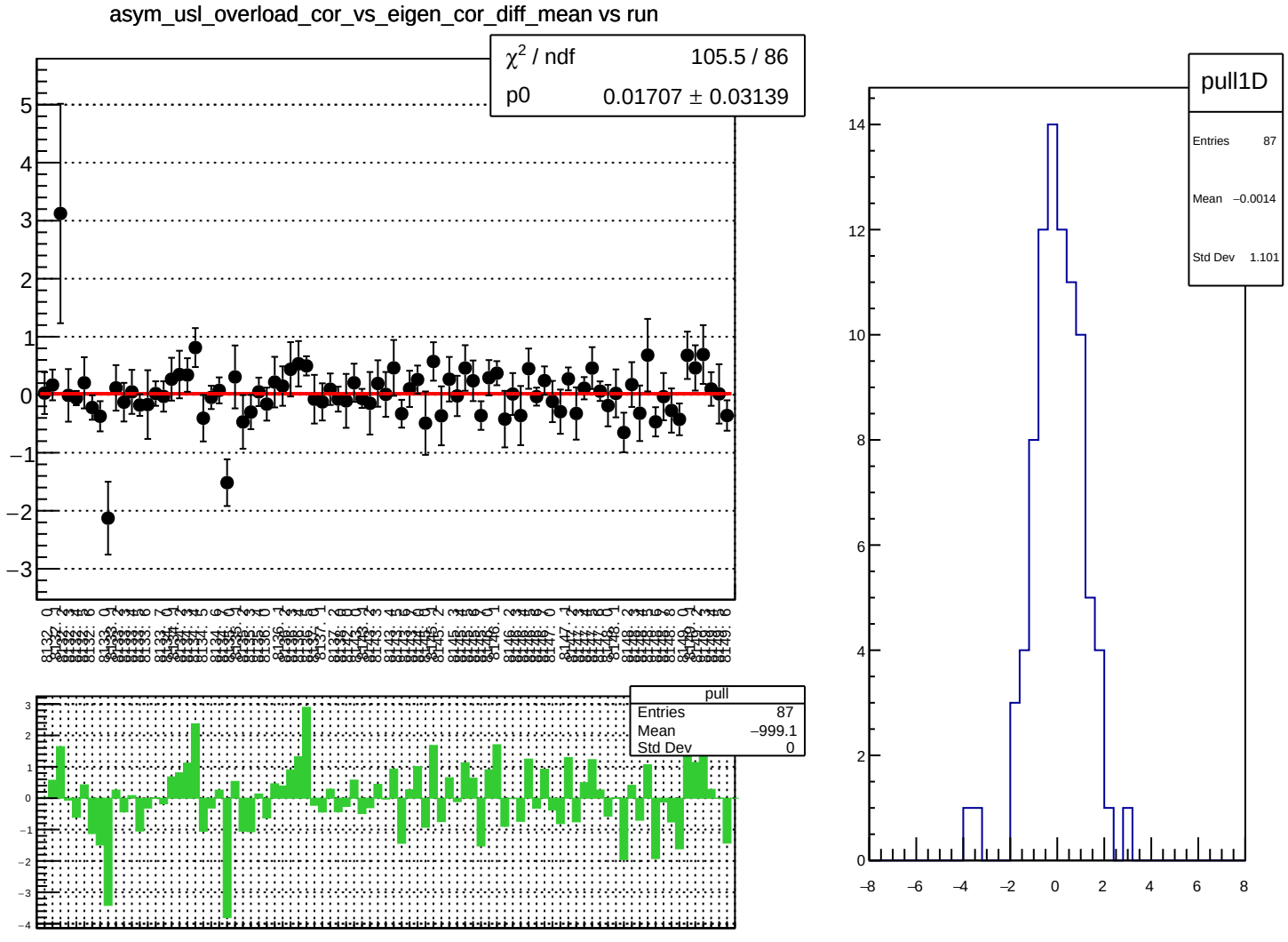

asym_usl_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.52 / 86
p0 1.233e−14 ± 4.947e−14
pull
Entries 87
Mean 79.85
Std Dev 33.05

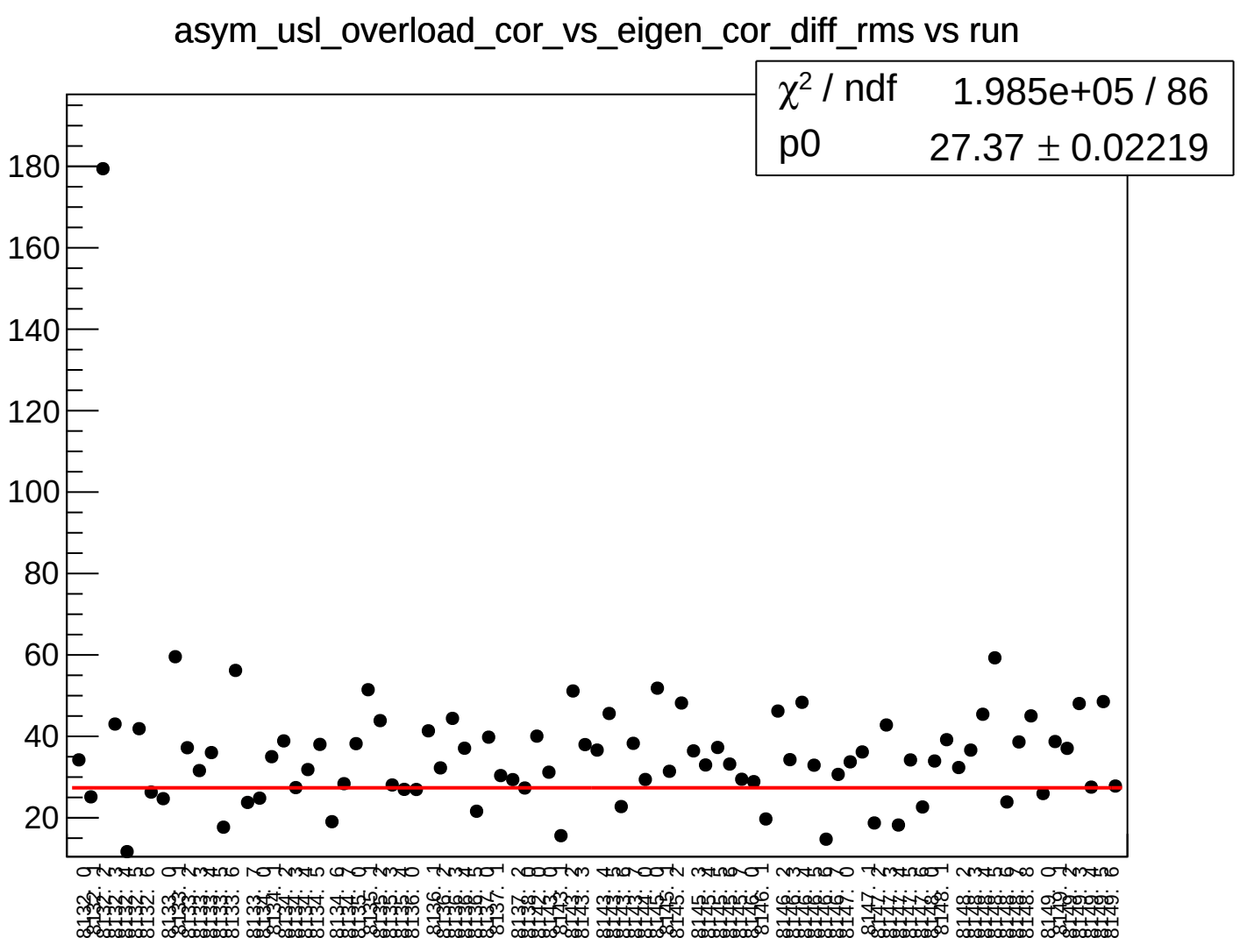

pull1D
Entries 87
Mean 0.03777
Std Dev 0.9248

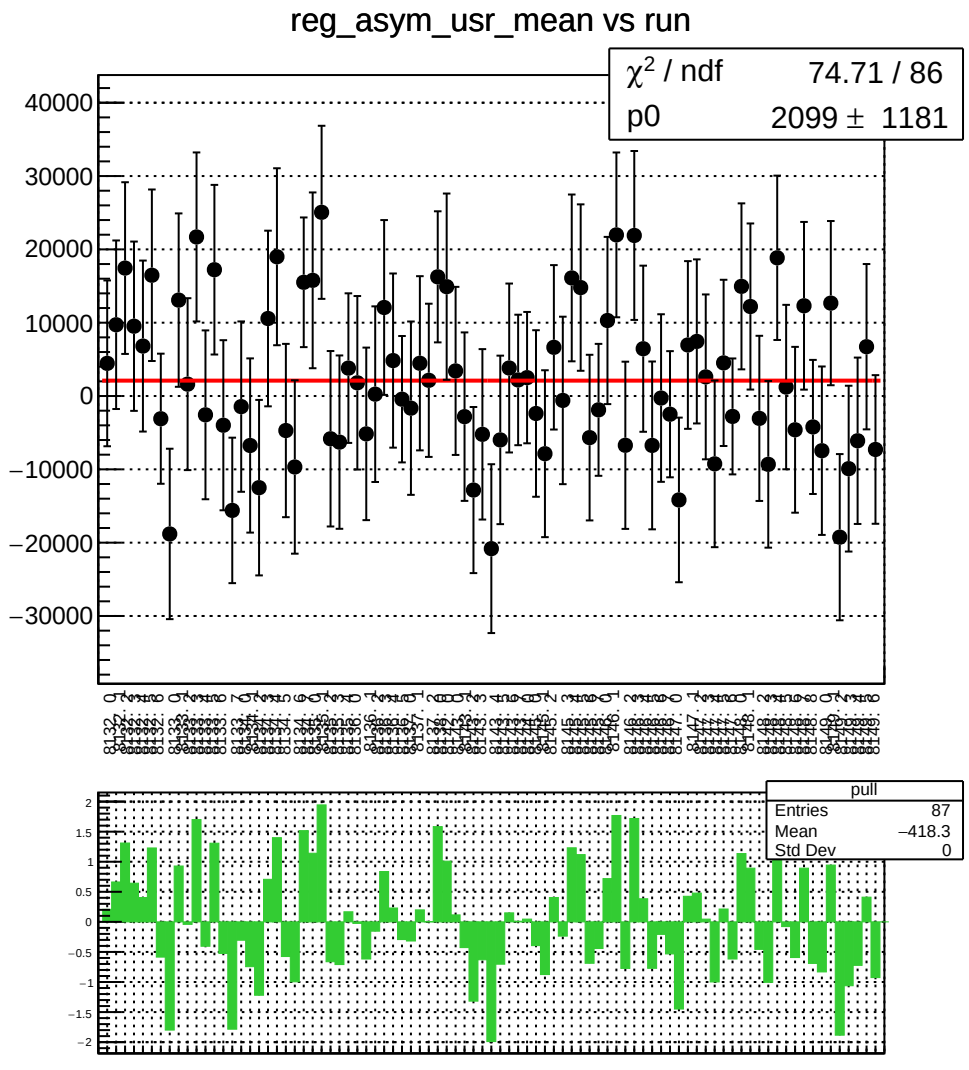

asym_usl_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.753e+05 / 86
p0 3.573e−11 ± 3.498e−14
0.25
0.2
0.15
0.1
0.05

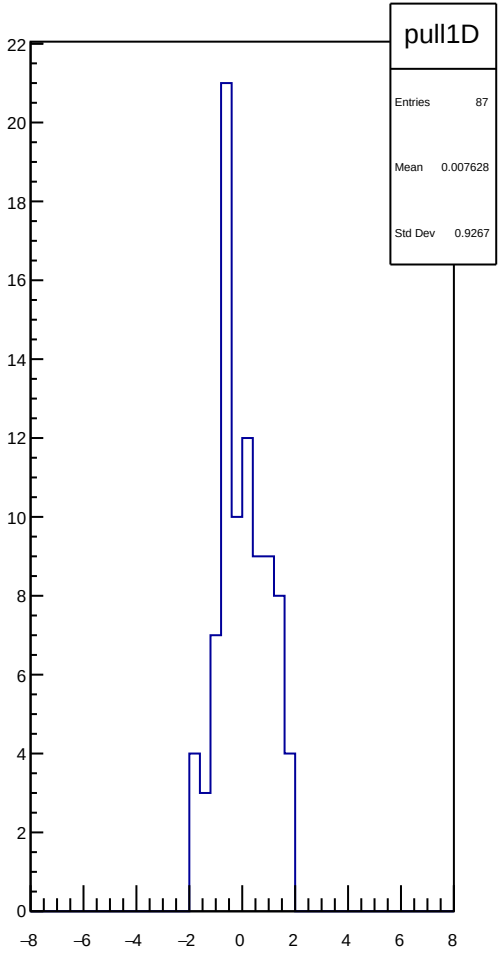

asym_usl_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 105.5 / 86
p0 0.01707 ± 0.03139
pull
Entries 87
Mean −999.1
Std Dev 0
pull1D
Entries 87
Mean −0.0014
Std Dev 1.101

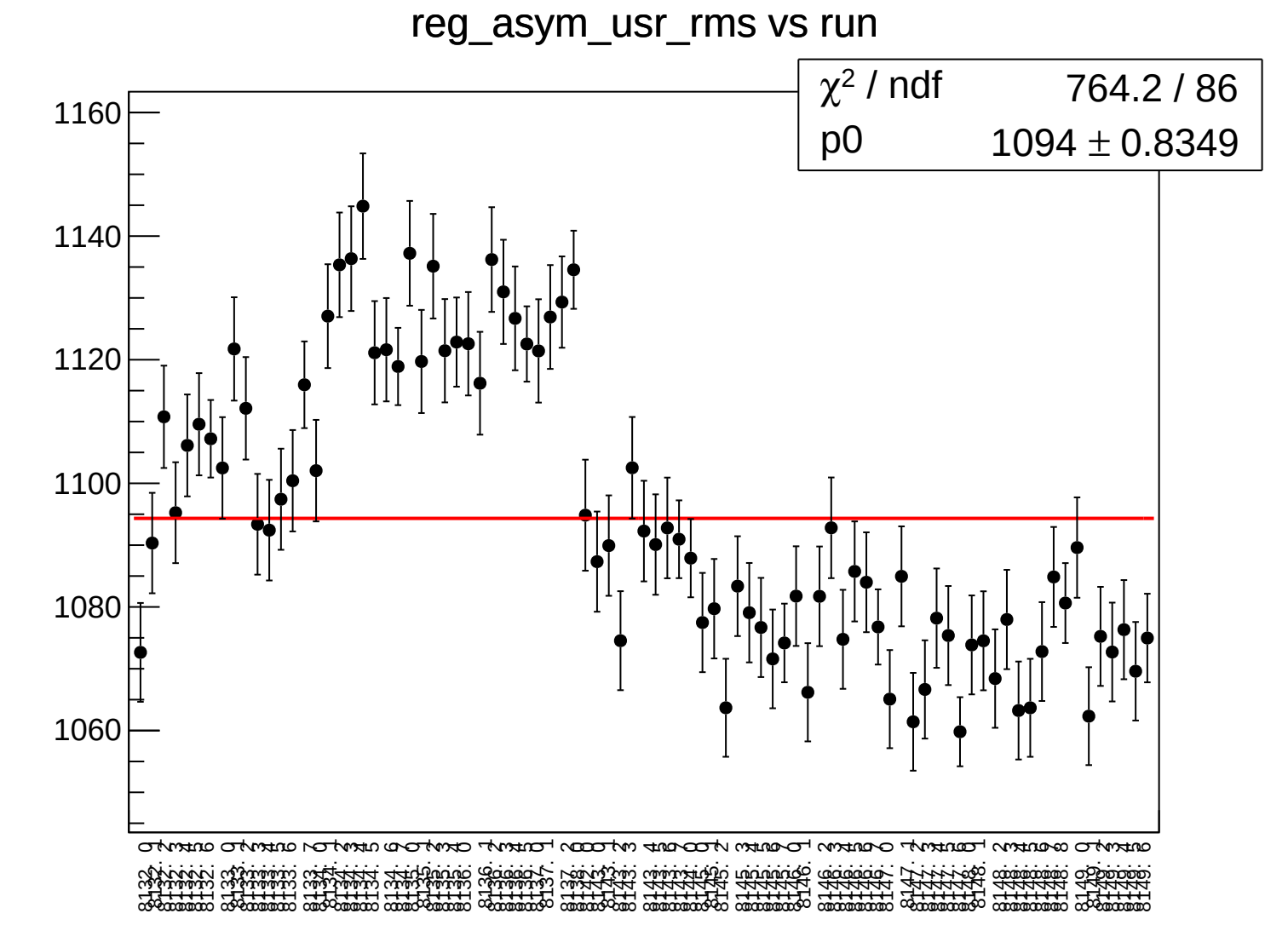

asym_usl_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.985e+05 / 86
p0 27.37 ± 0.02219
180
160
140
120
100
80
60
40
20

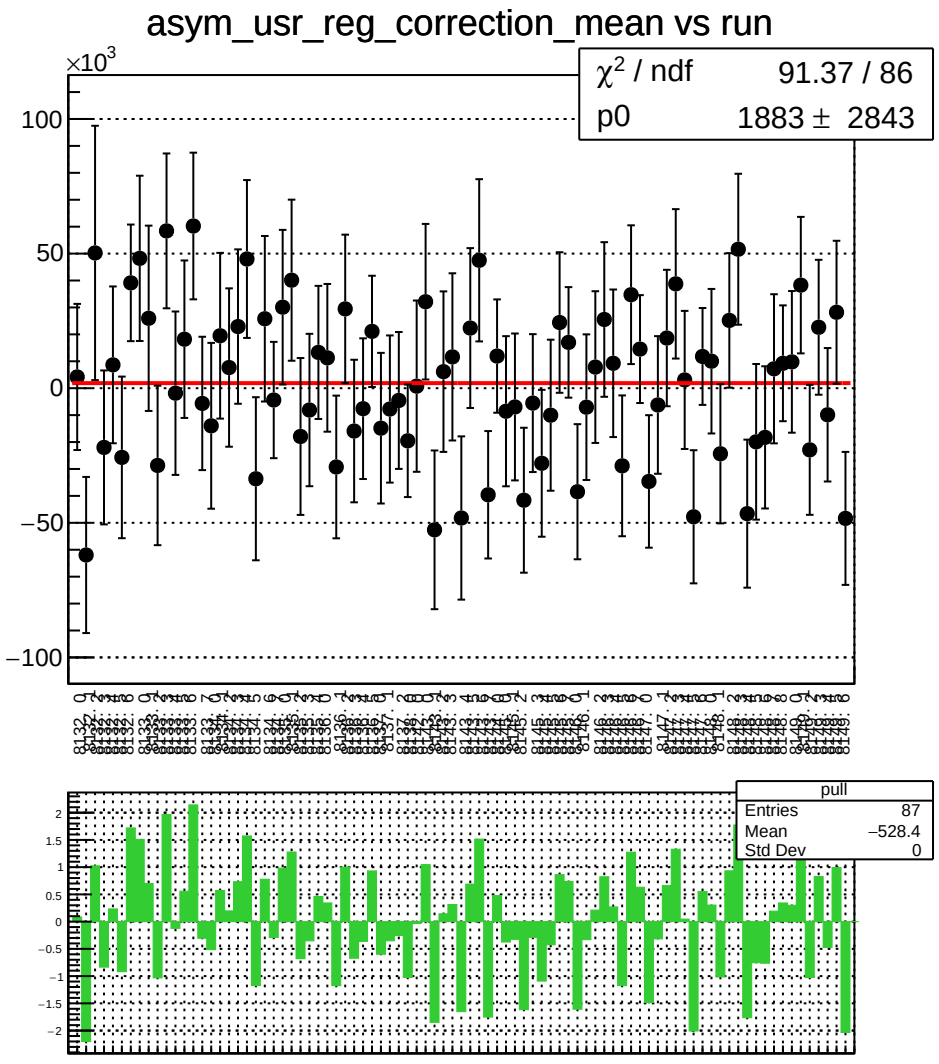

asym_usl_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.5 / 86
p0 0.01707 ± 0.03139
pull
Entries 87
Mean −999.1
Std Dev 0
pull1D
Entries 87
Mean −0.0014
Std Dev 1.101

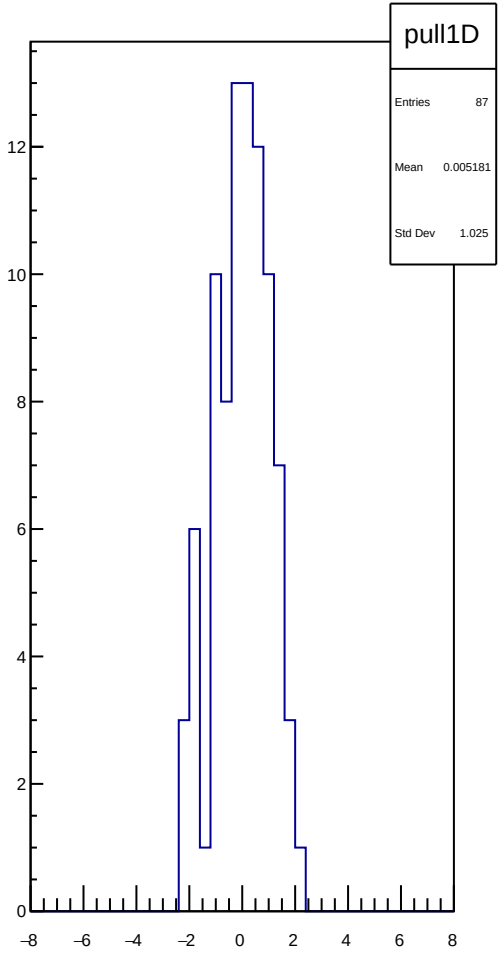

asym_usl_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.985e+05 / 86
p0 27.37 ± 0.02219
180
160
140
120
100
80
60
40
20

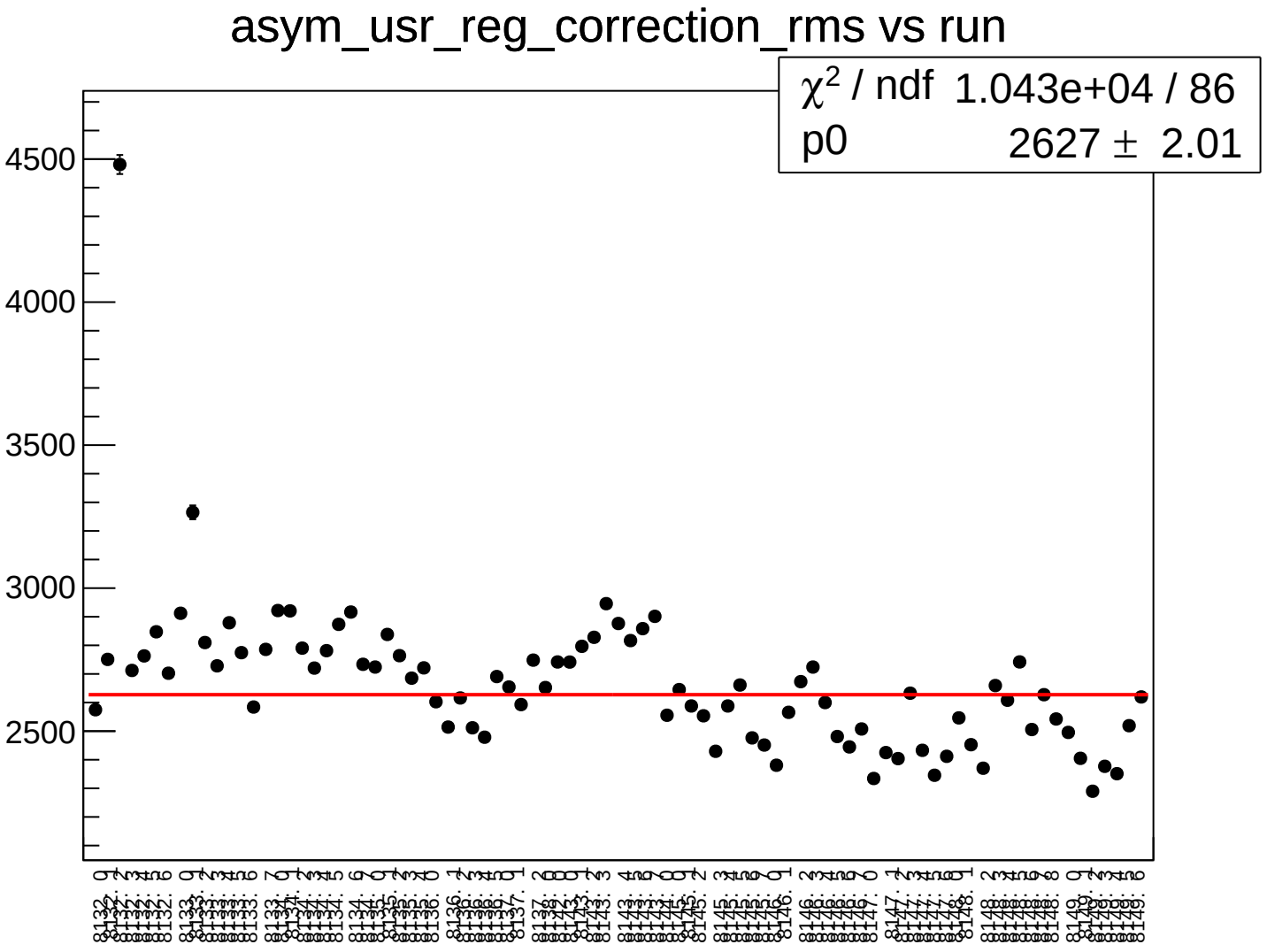

reg_asym_usr_mean vs run
χ² / ndf 74.71 / 86
p0 2099 ± 1181
pull
Entries 87
Mean −418.3
Std Dev 0

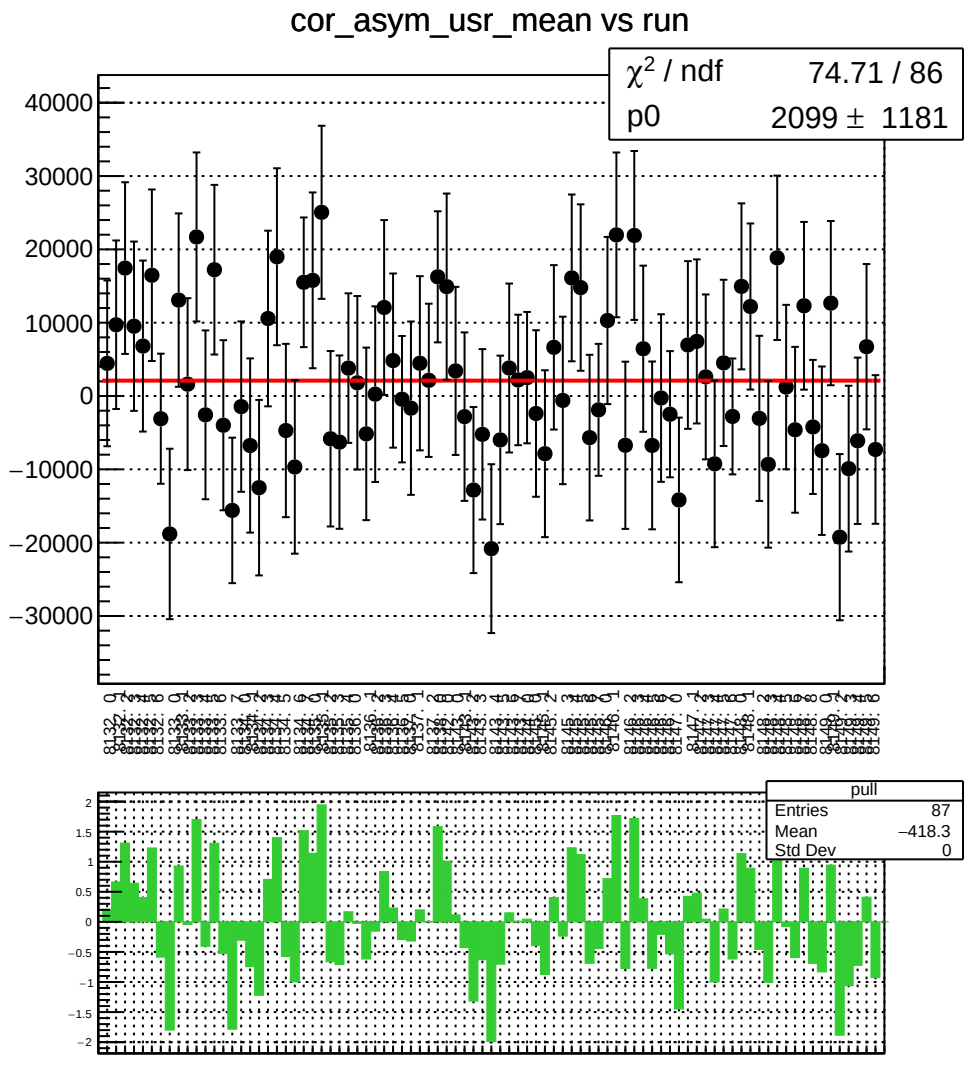

pull1D
Entries 87
Mean 0.007628
Std Dev 0.9267

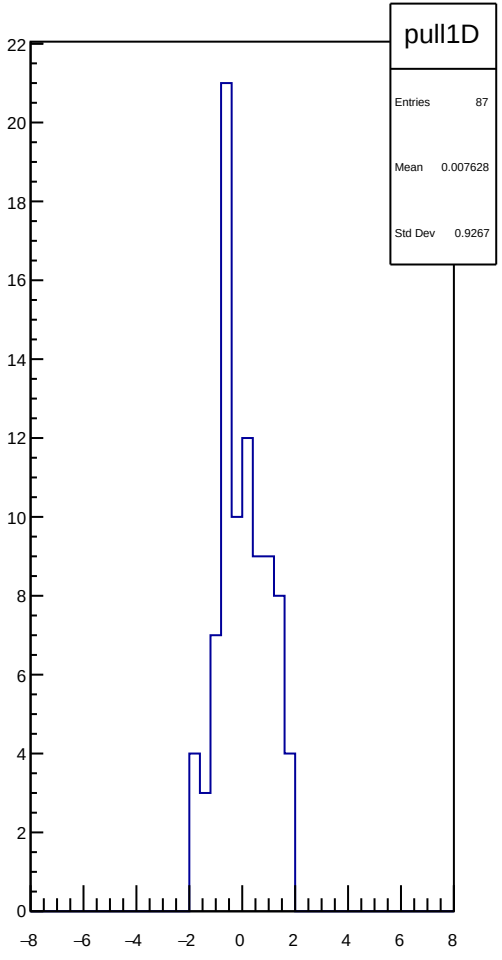

reg_asym_usr_rms vs run
χ² / ndf 764.2 / 86
p0 1094 ± 0.8349
1160
1140
1120
1100
1080
1060

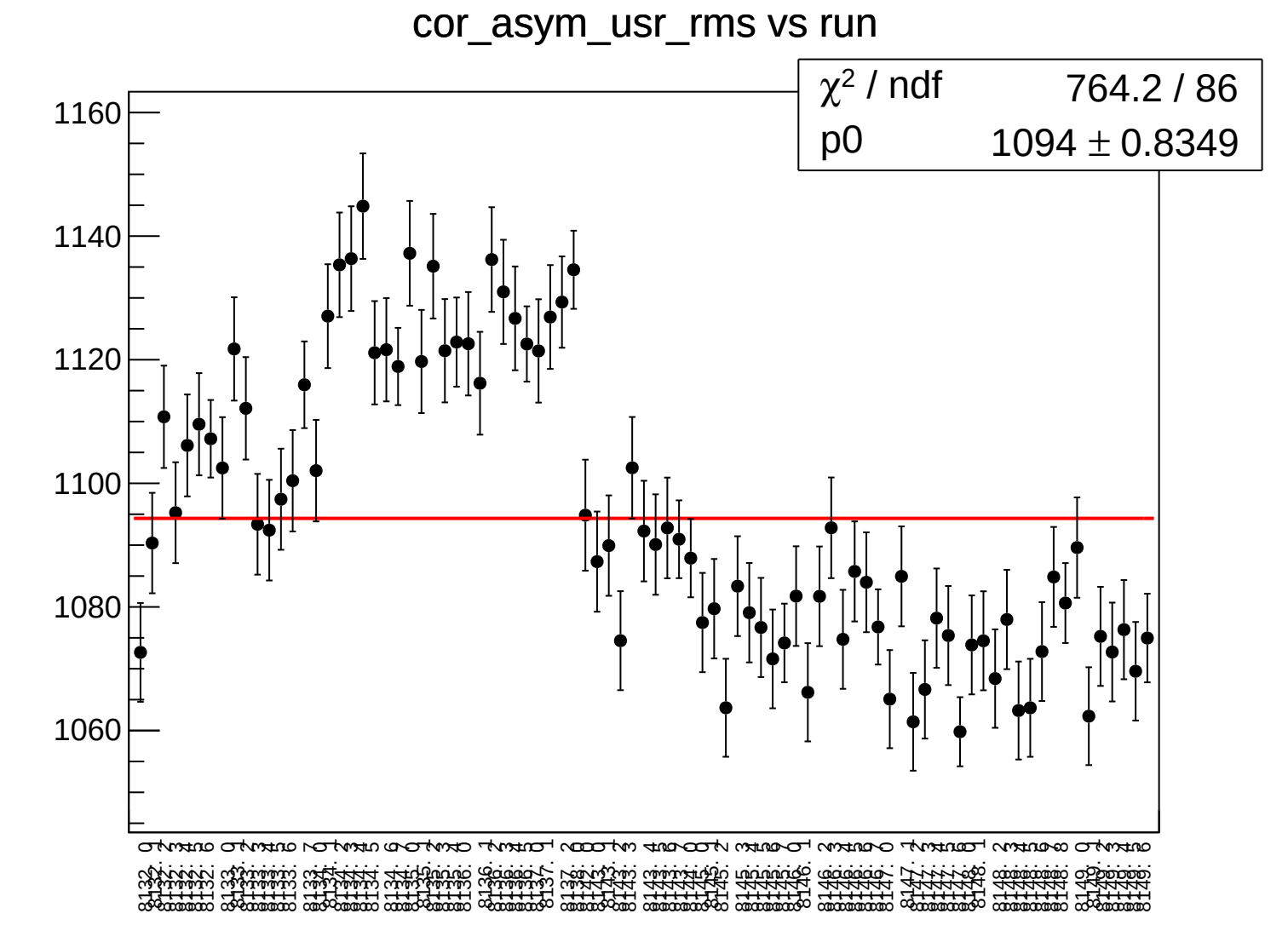

asym_usr_reg_correction_mean vs run
×10^3
χ² / ndf 91.37 / 86
p0 1883 ± 2843
100
50
0
−50
−100
pull
Entries 87
Mean −528.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

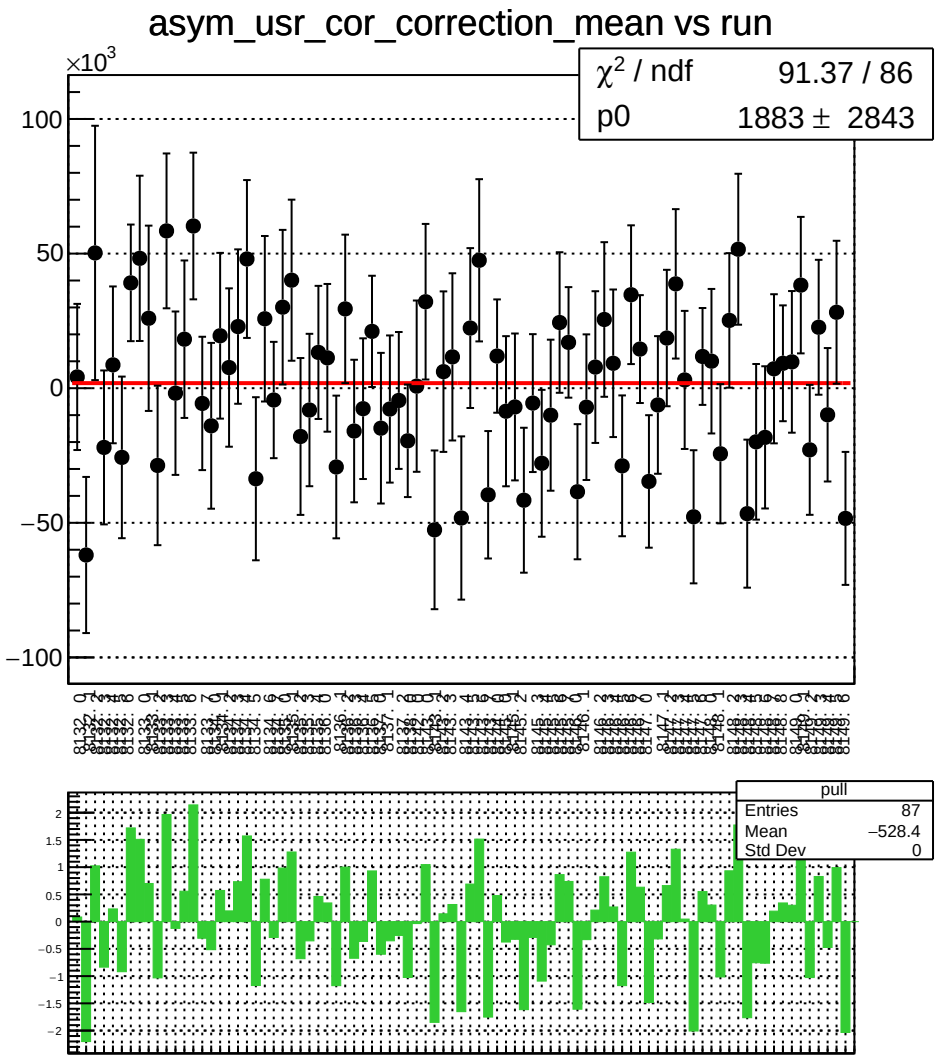

pull1D
Entries 87
Mean 0.005181
Std Dev 1.025
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

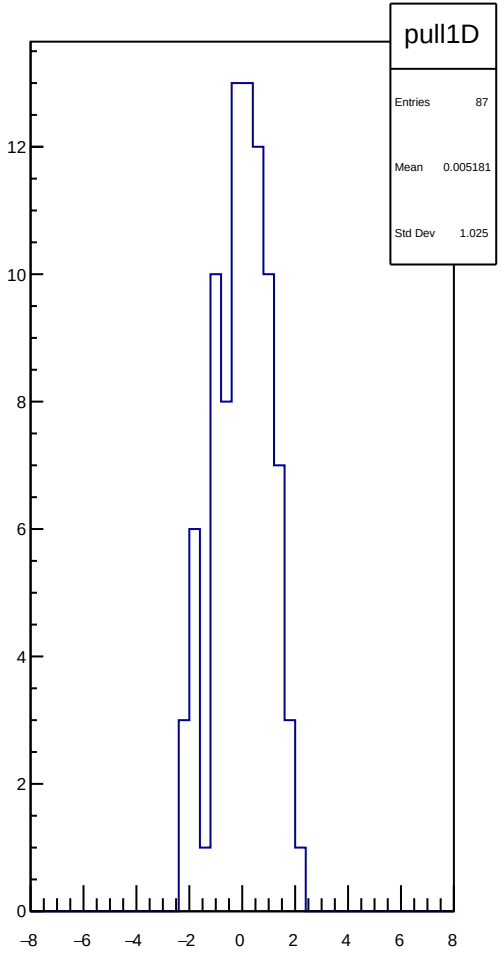

asym_usr_reg_correction_rms vs run
χ² / ndf 1.043e+04 / 86
p0 2627 ± 2.01
4500
4000
3500
3000
2500


cor_asym_usr_mean vs run
χ² / ndf 74.71 / 86
p0 2099 ± 1181
pull
Entries 87
Mean −418.3
Std Dev 0


pull1D
Entries 87
Mean 0.007628
Std Dev 0.9267


cor_asym_usr_rms vs run
χ² / ndf 764.2 / 86
p0 1094 ± 0.8349
1160
1140
1120
1100
1080
1060


asym_usr_cor_correction_mean vs run
×10^3
χ² / ndf 91.37 / 86
p0 1883 ± 2843
100
50
0
−50
−100
pull
Entries 87
Mean −528.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 87
Mean 0.005181
Std Dev 1.025
12
10
8
6
4
2
0
−8
−6
−4
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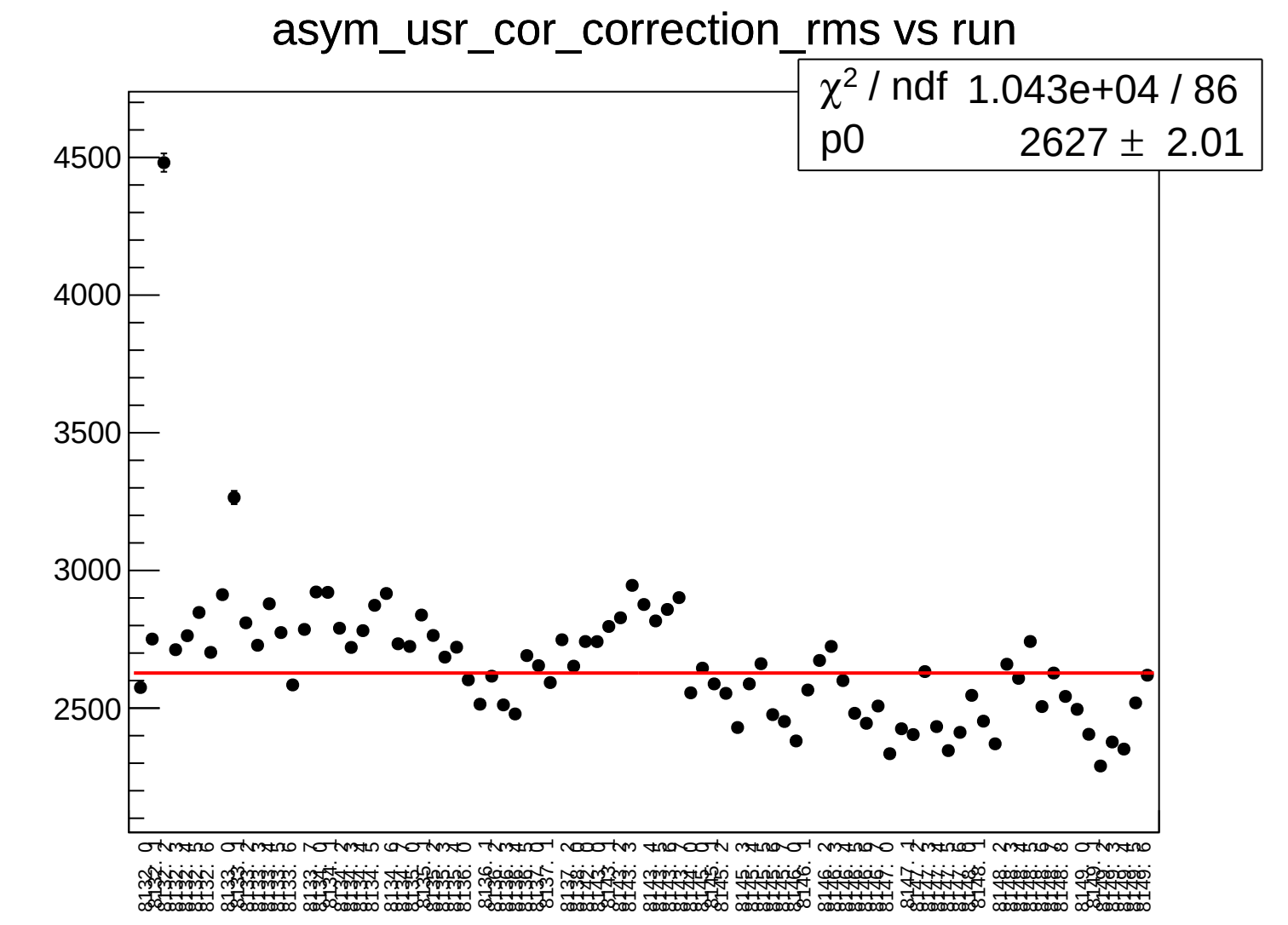
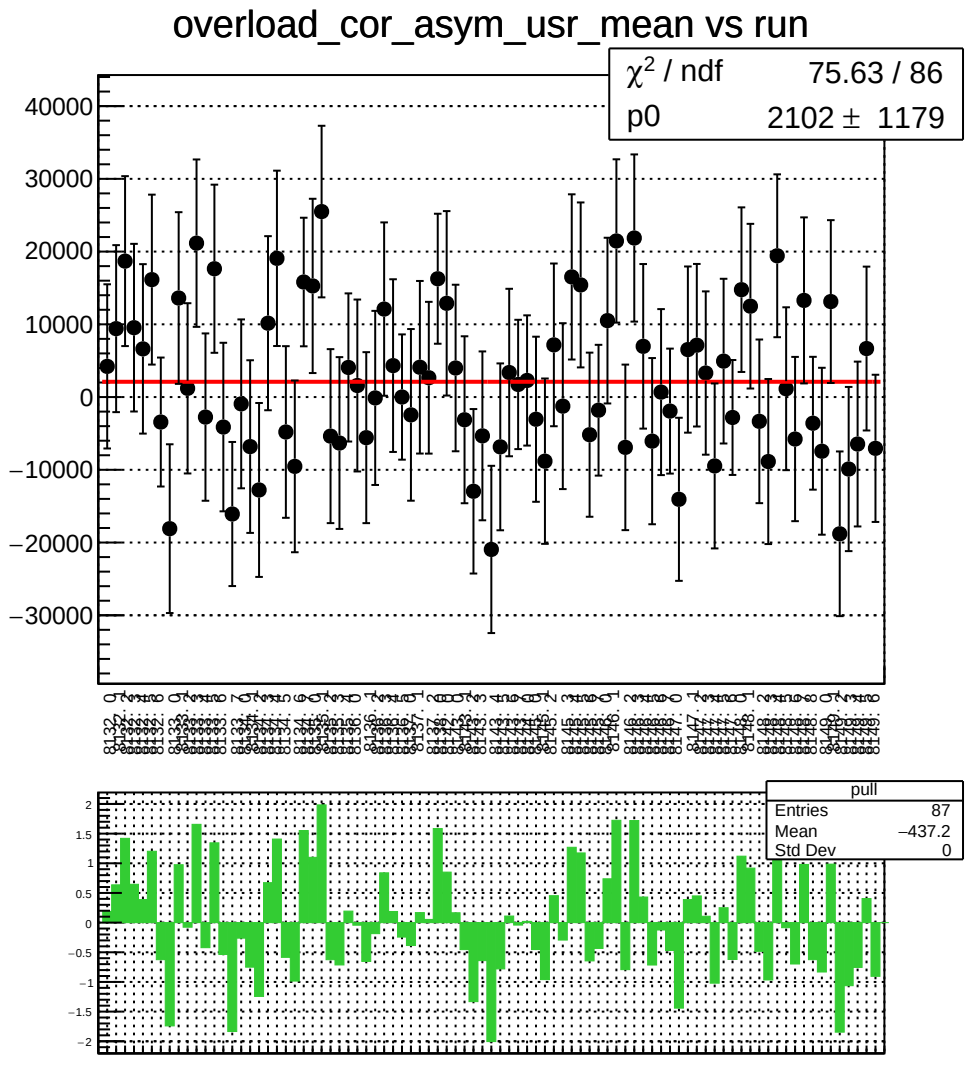
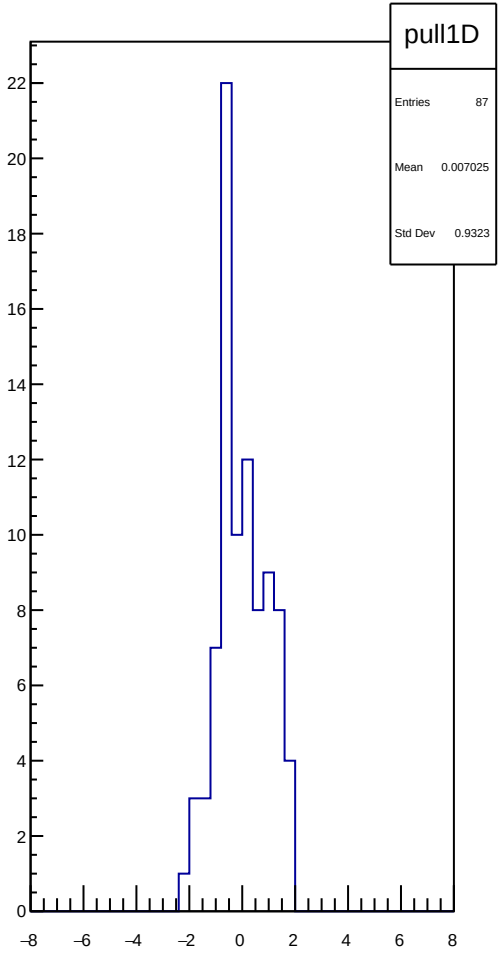
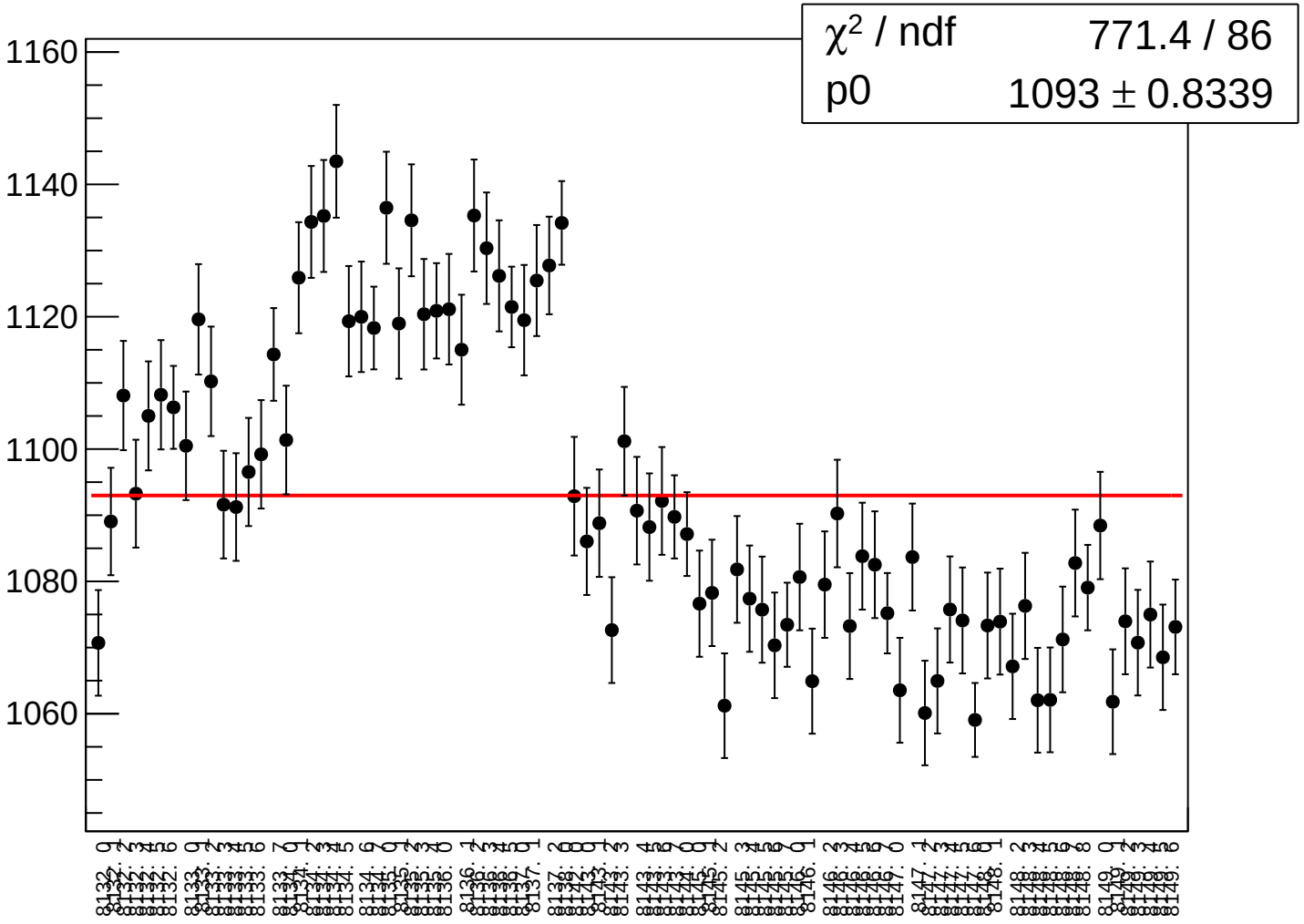
0
2
4
6
8

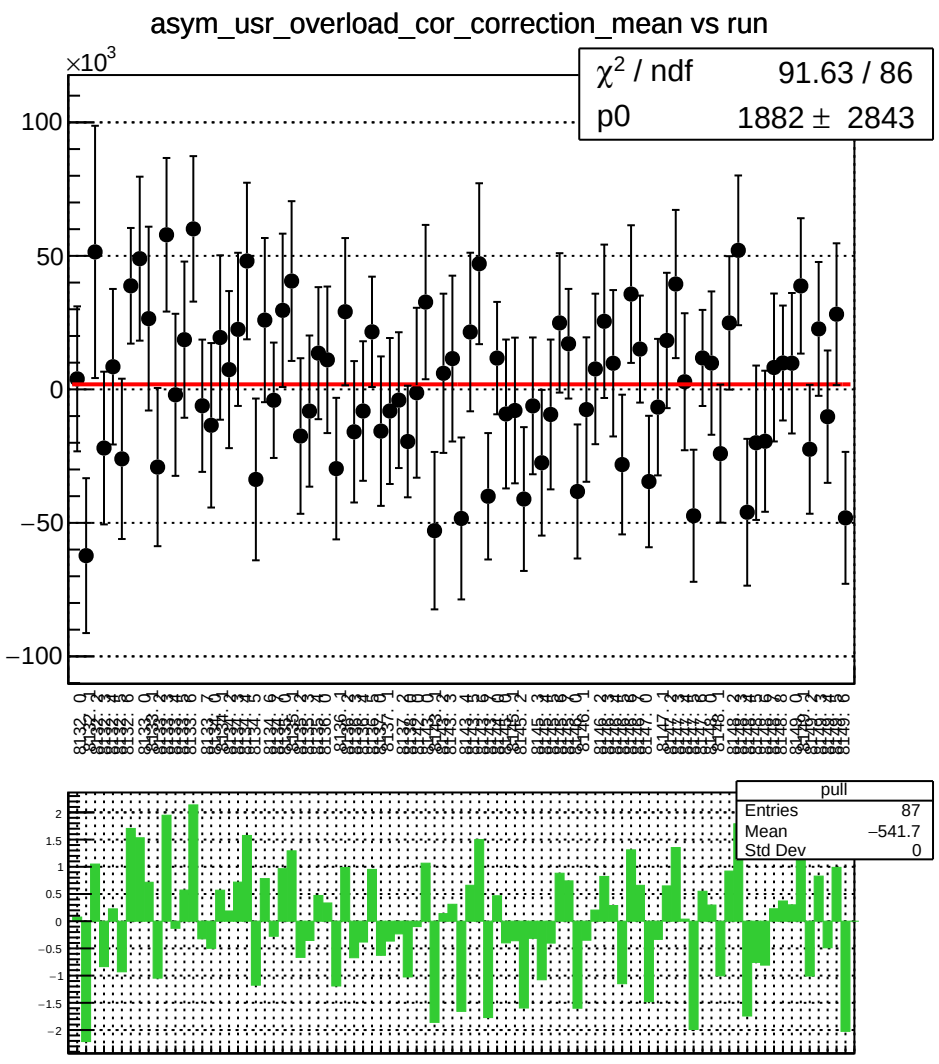

asym_usr_cor_correction_rms vs run
χ² / ndf 1.043e+04 / 86
p0 2627 ± 2.01
4500
4000
3500
3000
2500

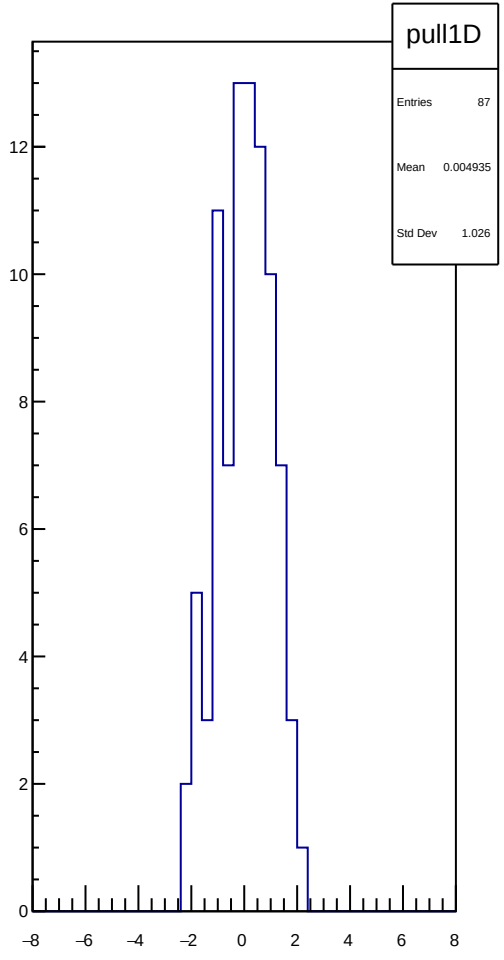

overload_cor_asym_usr_mean vs run
χ² / ndf 75.63 / 86
p0 2102 ± 1179
pull
Entries 87
Mean −437.2
Std Dev 0


pull1D
Entries 87
Mean 0.007025
Std Dev 0.9323

overload_cor_asym_usr_rms vs run




asym_usr_overload_cor_correction_mean vs run
×10^3
χ^2 / ndf 91.63 / 86
p0 1882 ± 2843
100
50
0
−50
−100
pull
Entries 87
Mean −541.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 87
Mean 0.004935
Std Dev 1.026
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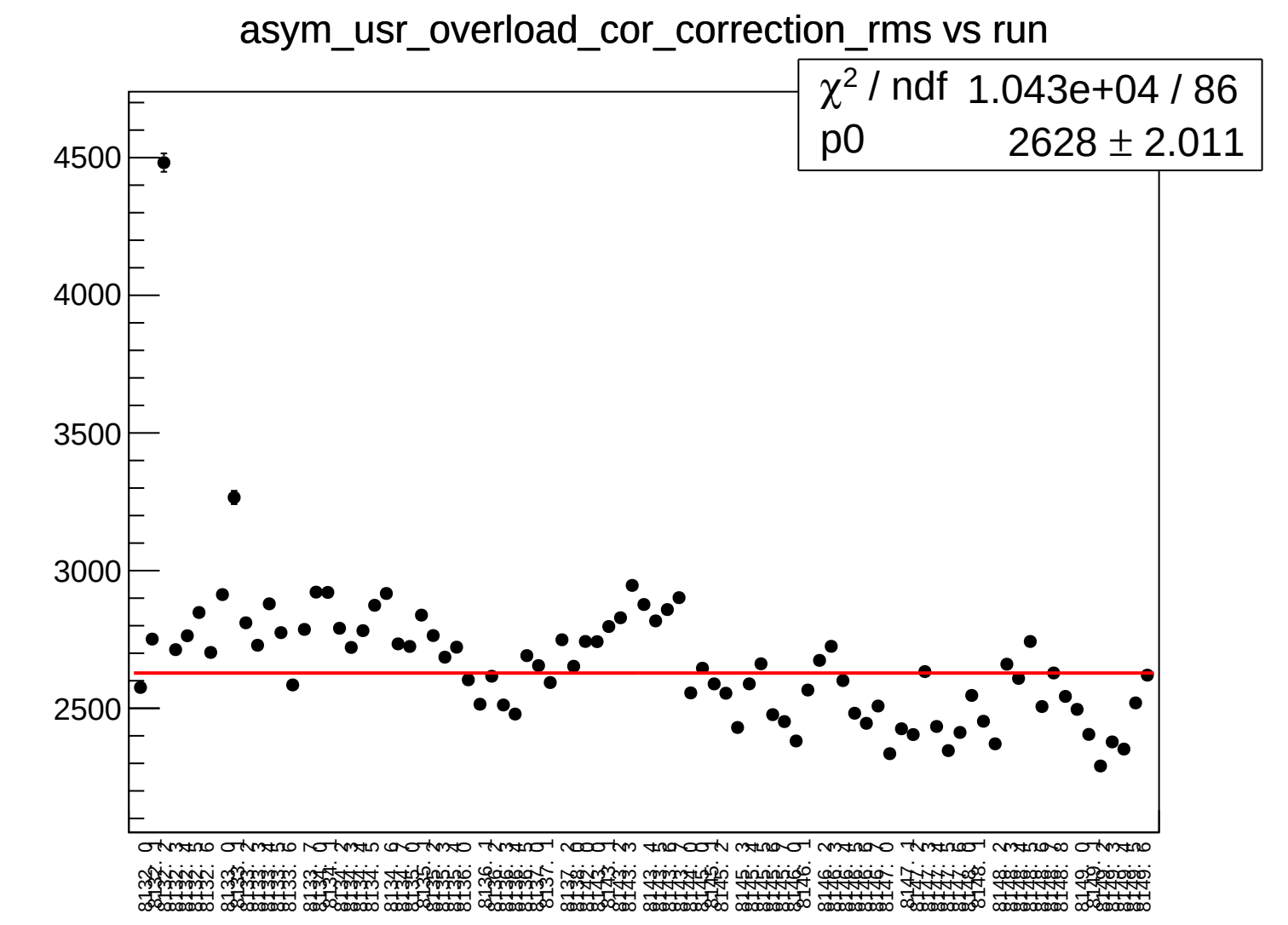
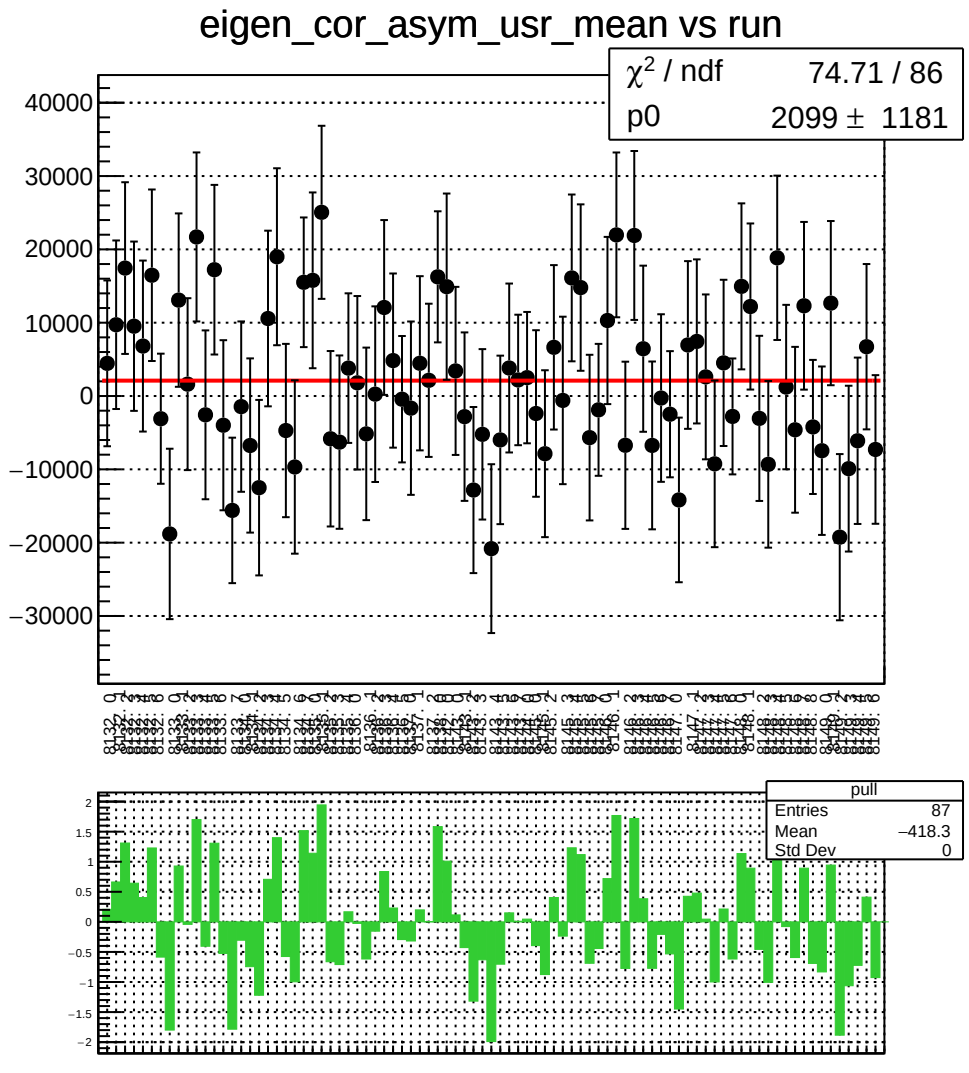
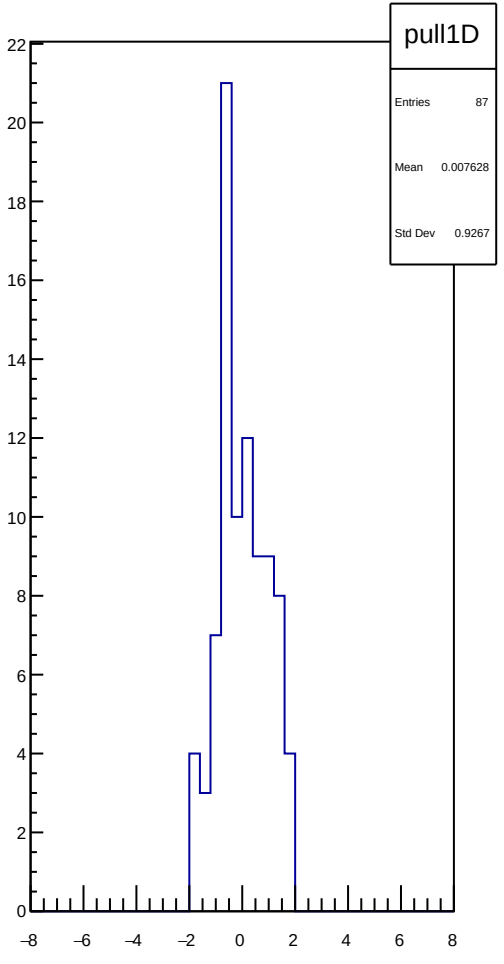
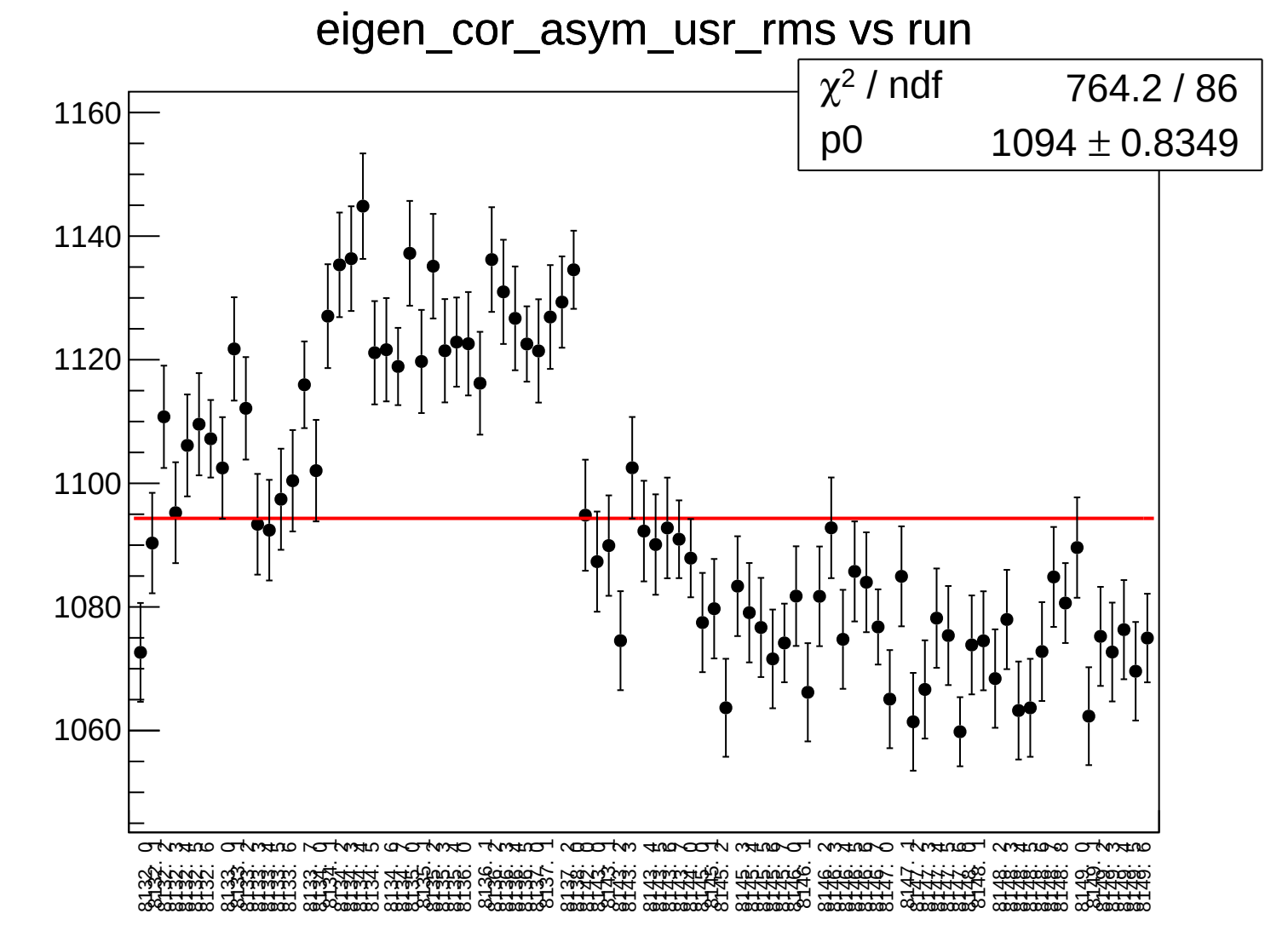
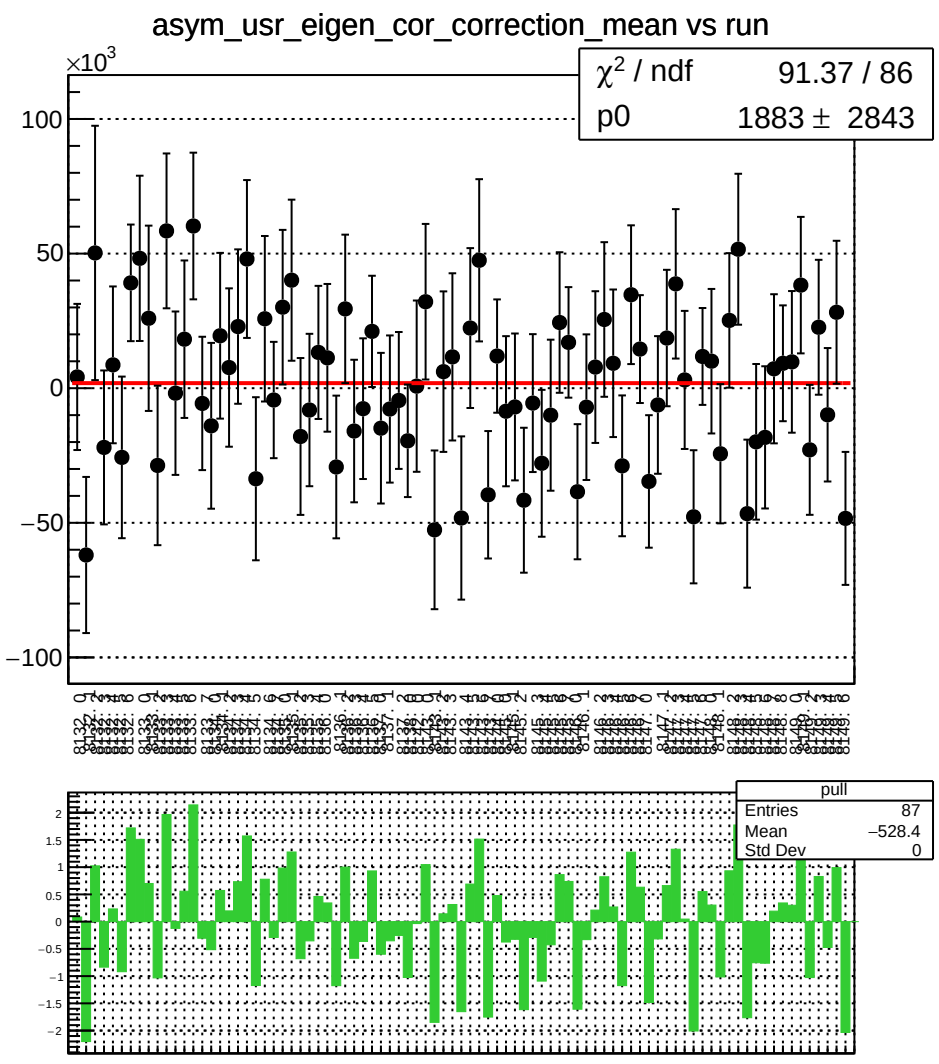
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

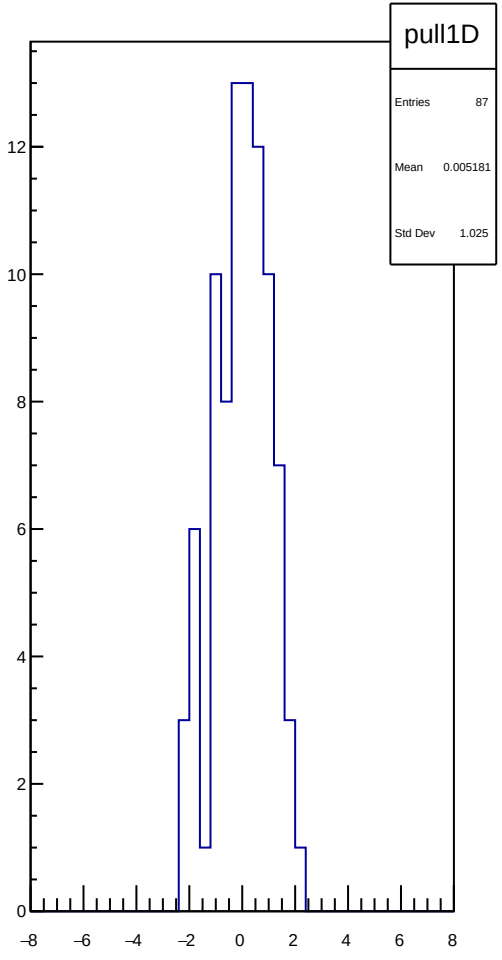

asym_usr_overload_cor_correction_rms vs run
χ² / ndf 1.043e+04 / 86
p0 2628 ± 2.011
4500
4000
3500
3000
2500

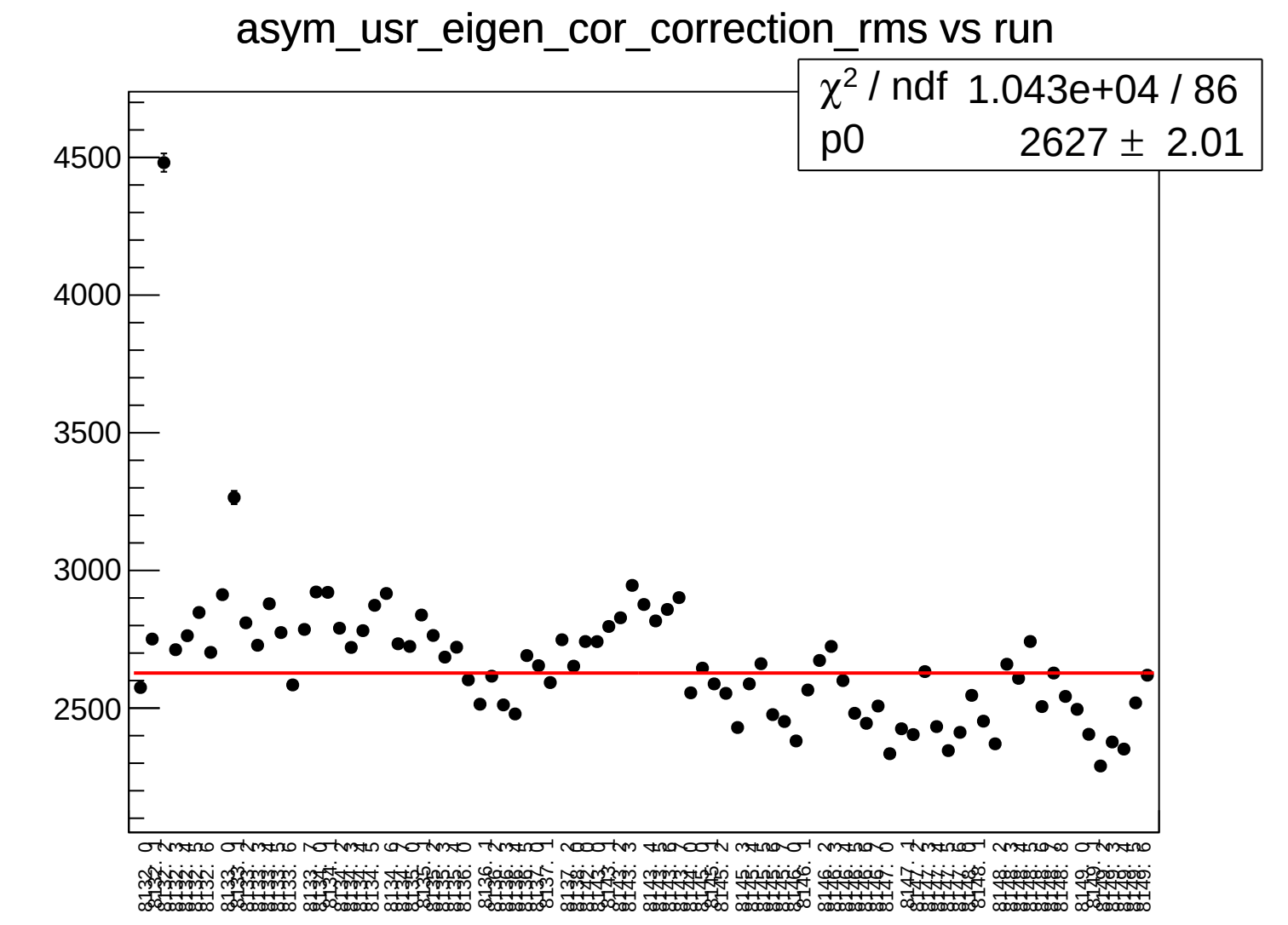

eigen_cor_asym_usr_mean vs run
χ² / ndf 74.71 / 86
p0 2099 ± 1181
pull
Entries 87
Mean −418.3
Std Dev 0

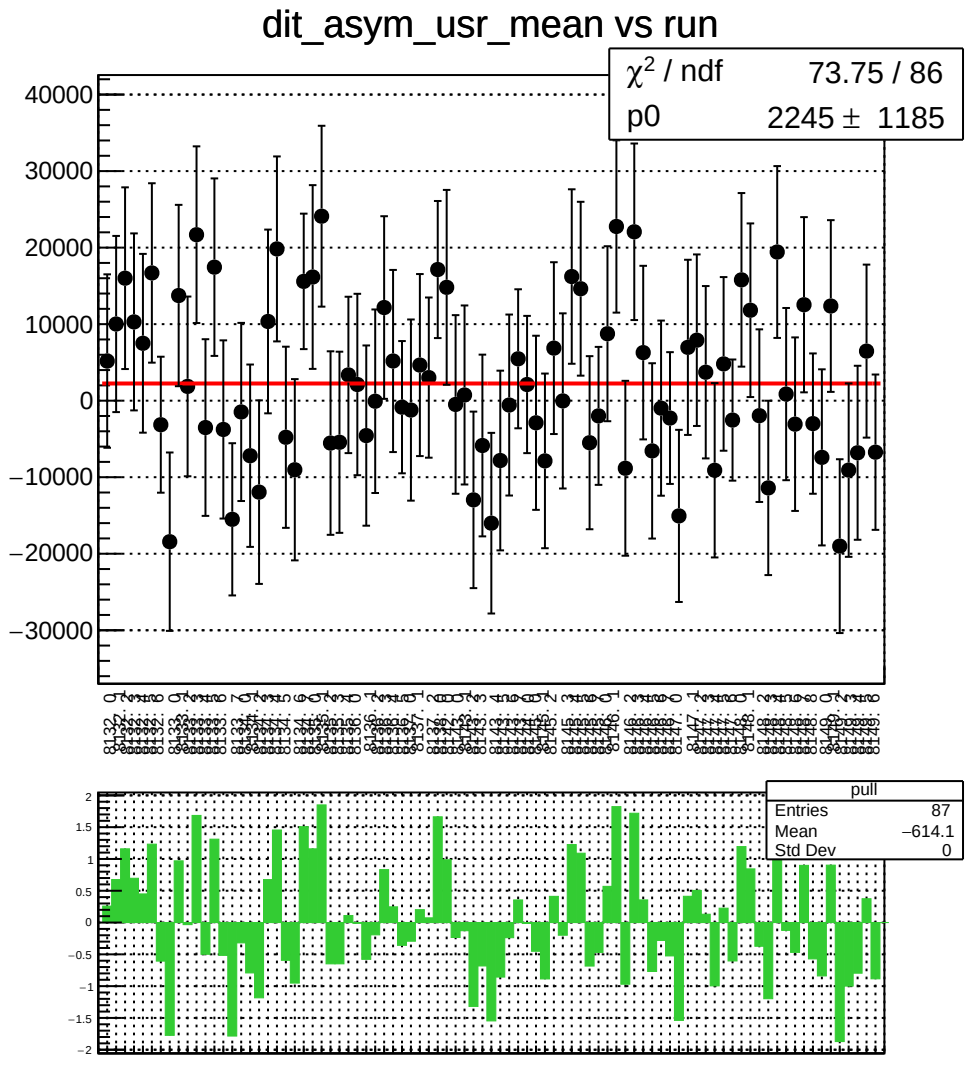

pull1D
Entries 87
Mean 0.007628
Std Dev 0.9267

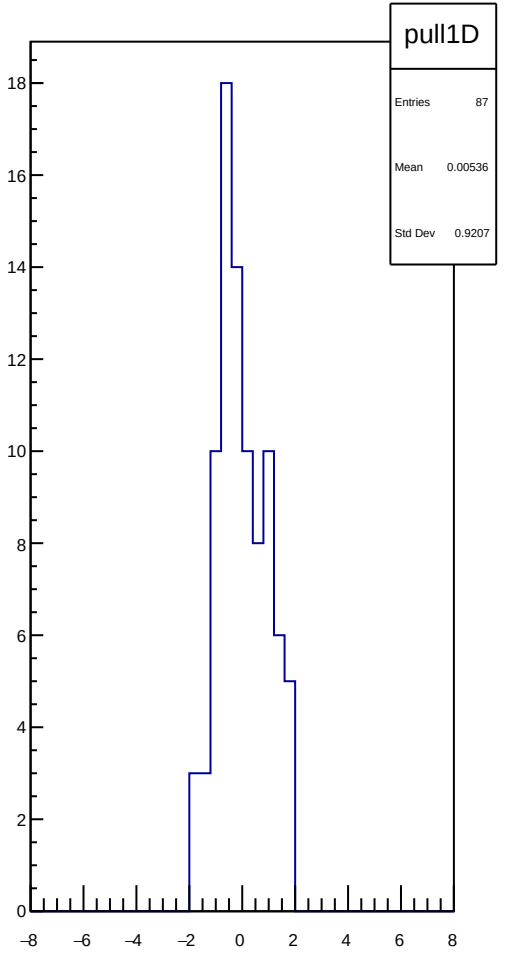

eigen_cor_asym_usr_rms vs run
χ² / ndf 764.2 / 86
p0 1094 ± 0.8349
1160
1140
1120
1100
1080
1060

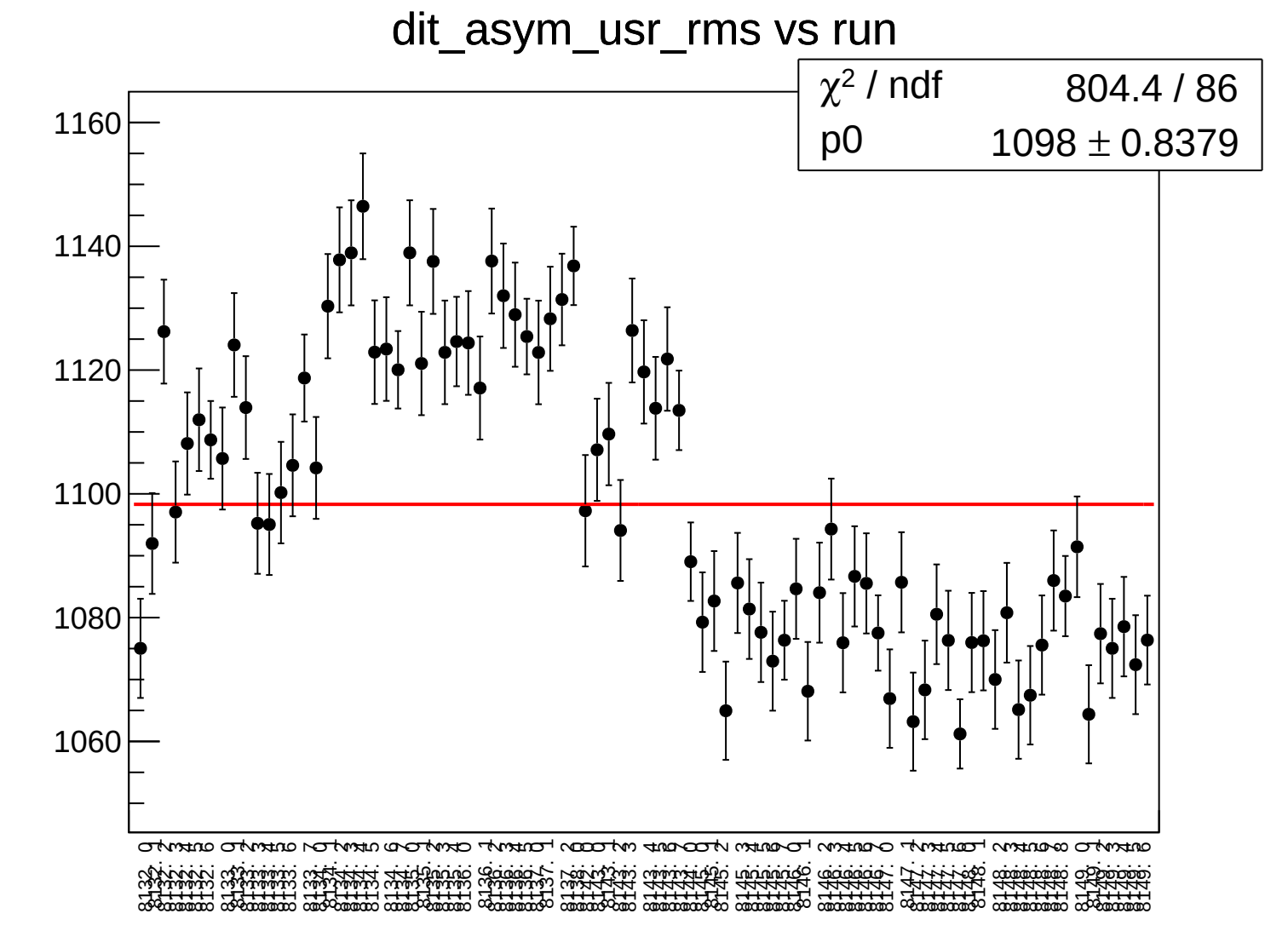

asym_usr_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 91.37 / 86
p0 1883 ± 2843
100
50
0
−50
−100
pull
Entries 87
Mean −528.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

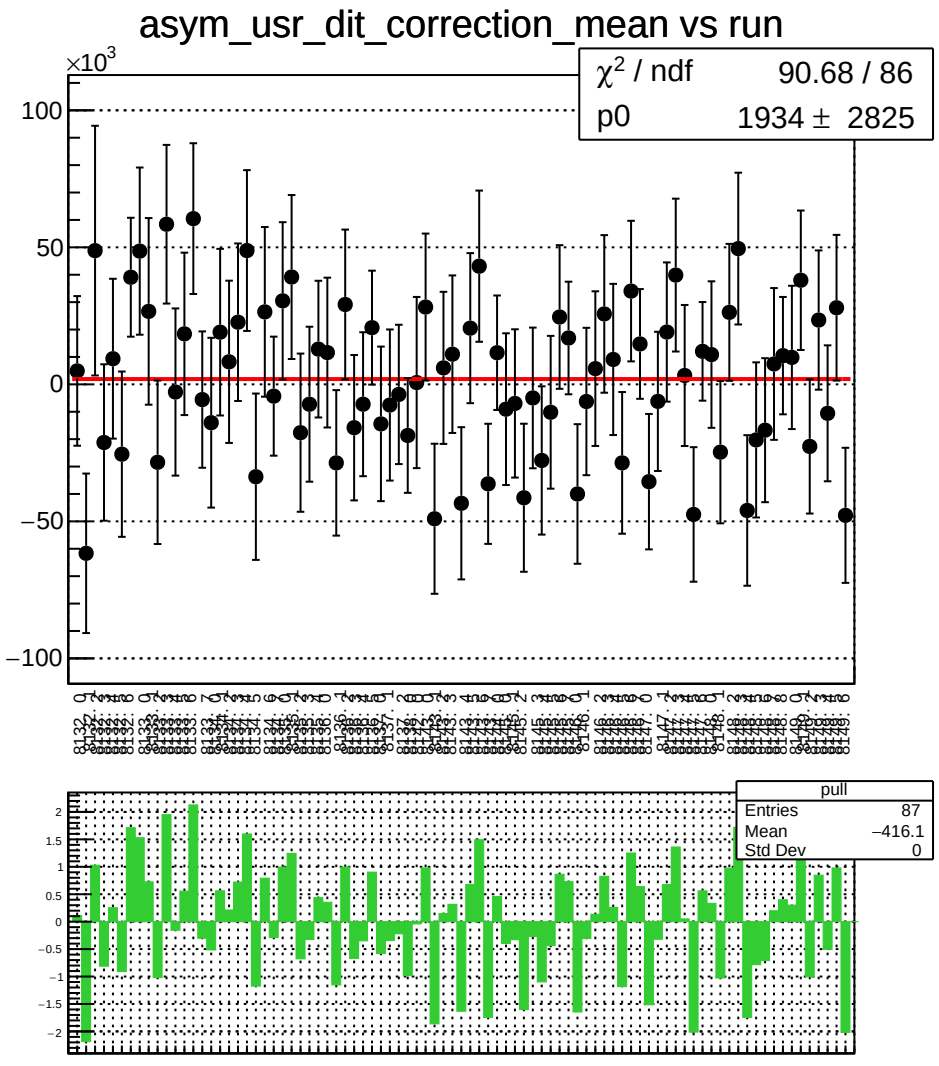

pull1D
Entries 87
Mean 0.005181
Std Dev 1.025
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

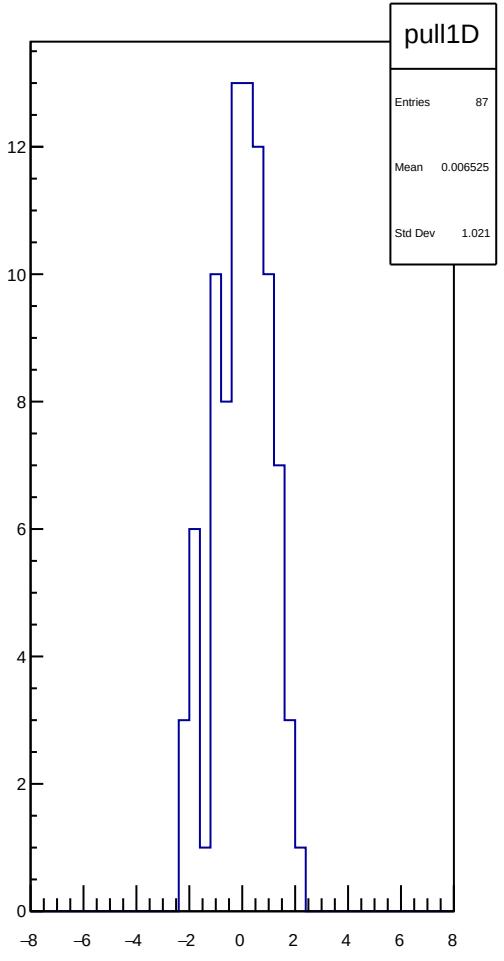

asym_usr_eigen_cor_correction_rms vs run
χ² / ndf 1.043e+04 / 86
p0 2627 ± 2.01
4500
4000
3500
3000
2500


dit_asym_usr_mean vs run
χ² / ndf 73.75 / 86
p0 2245 ± 1185
pull
Entries 87
Mean −614.1
Std Dev 0

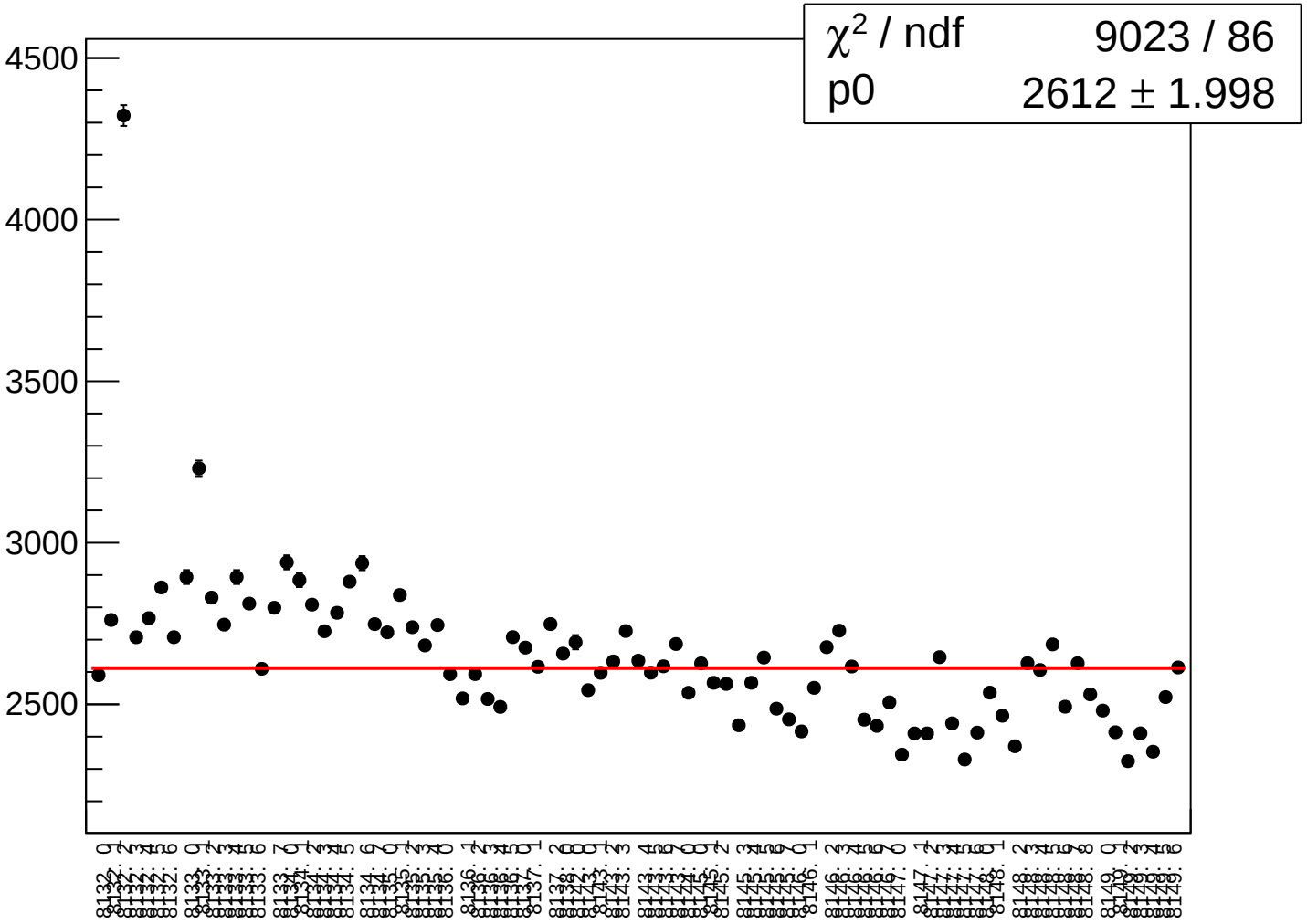

pull1D
Entries 87
Mean 0.00536
Std Dev 0.9207

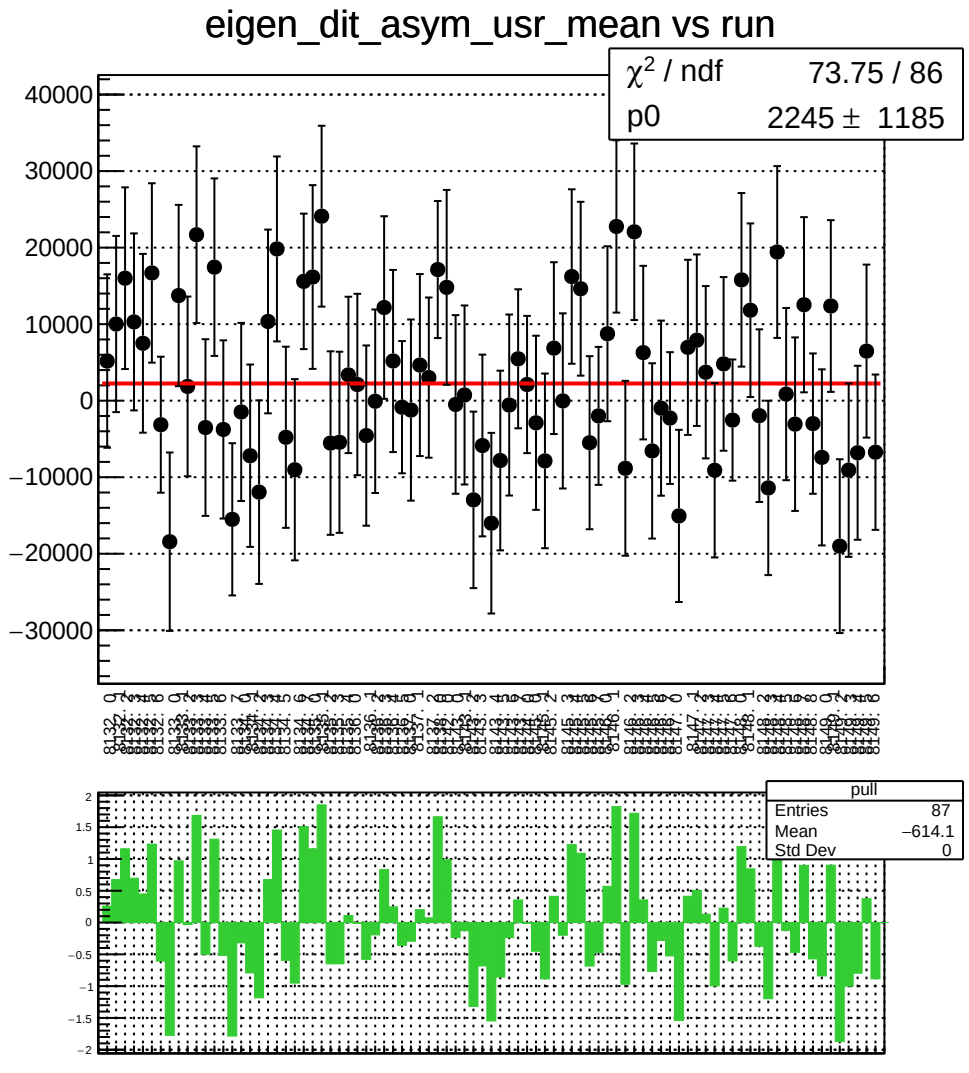

dit_asym_usr_rms vs run
χ² / ndf 804.4 / 86
p0 1098 ± 0.8379
1160
1140
1120
1100
1080
1060

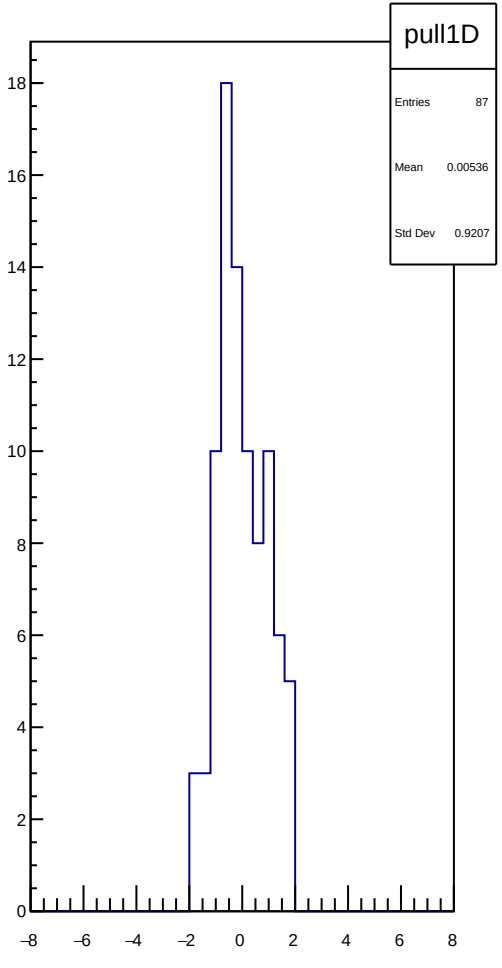

asym_usr_dit_correction_mean vs run
×10^3
χ² / ndf 90.68 / 86
p0 1934 ± 2825
100
50
0
−50
−100
pull
Entries 87
Mean −416.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

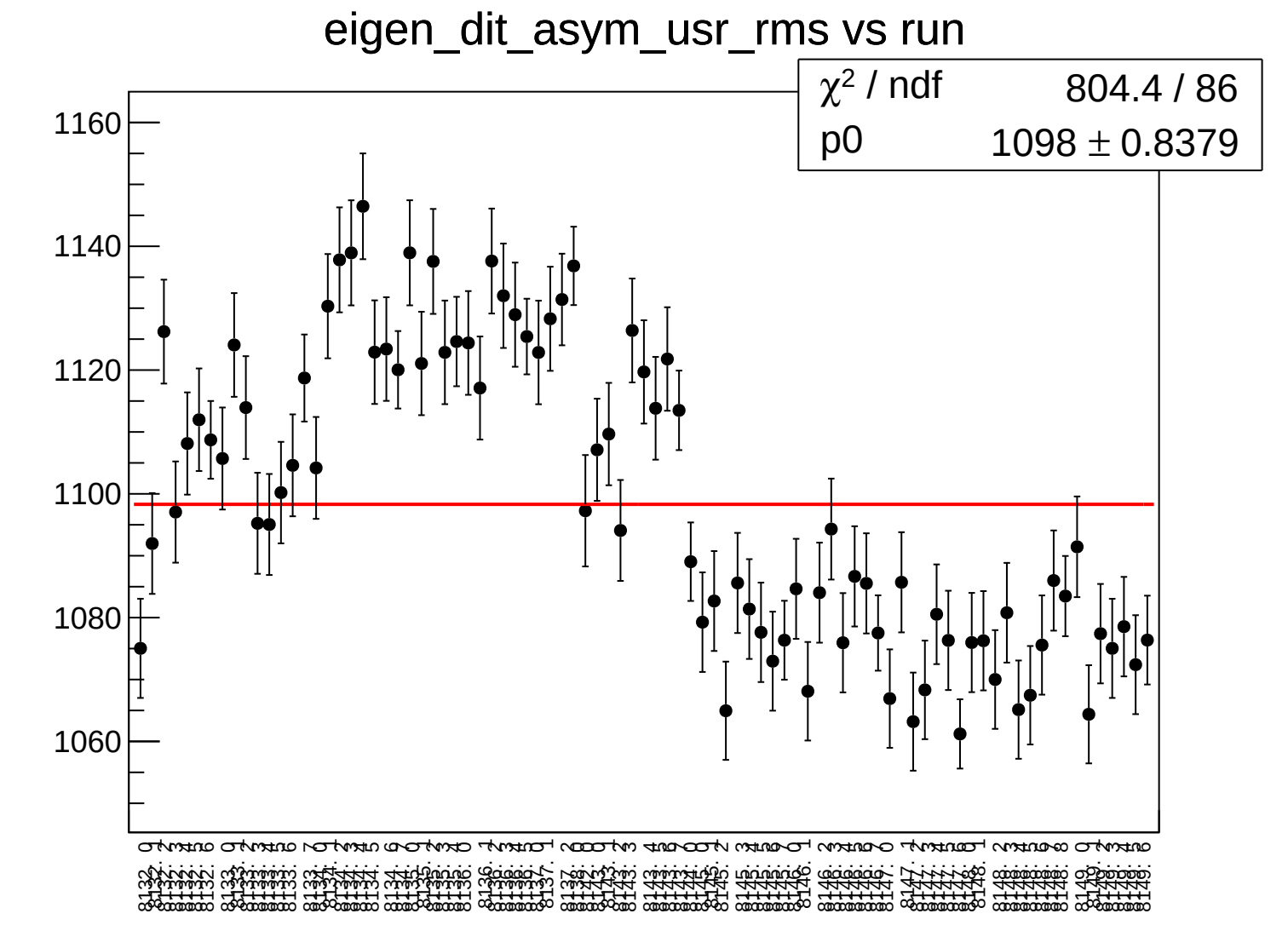

pull1D
Entries 87
Mean 0.006525
Std Dev 1.021
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

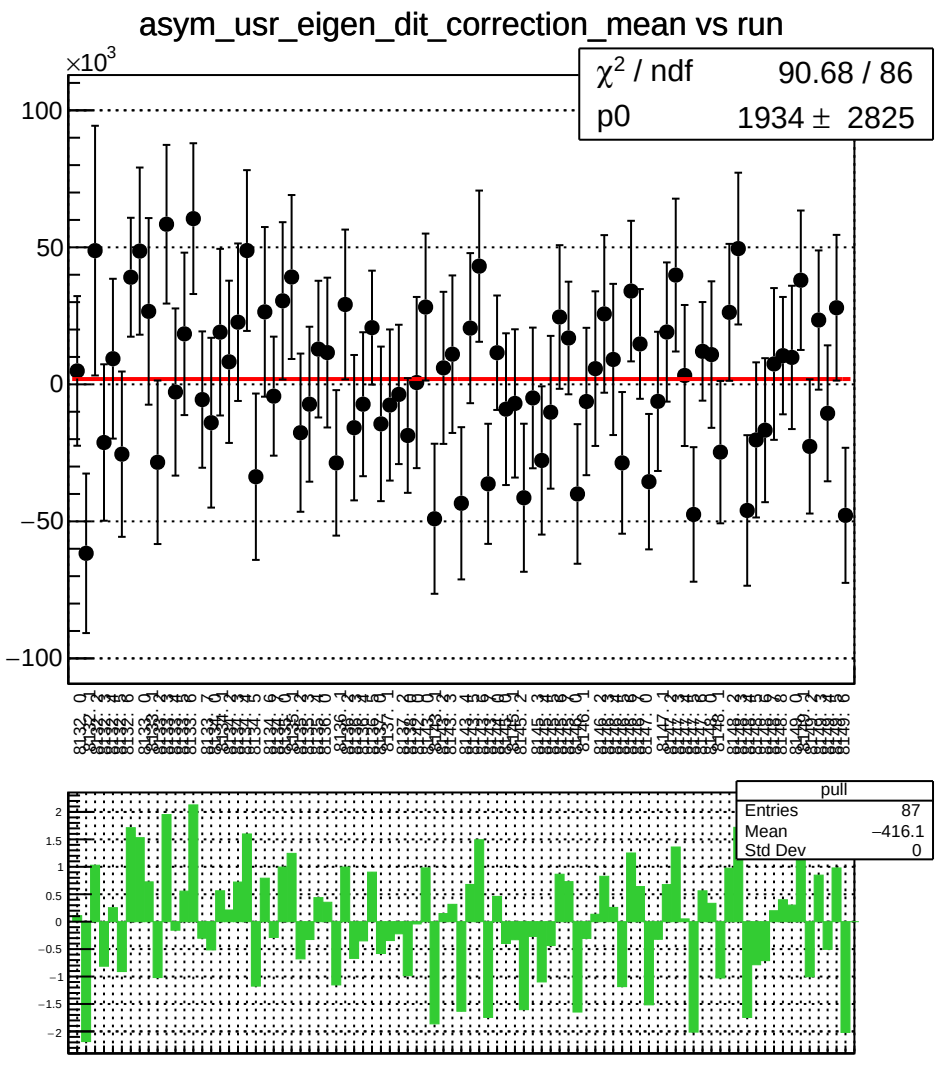
asym_usr_dit_correction_rms vs run

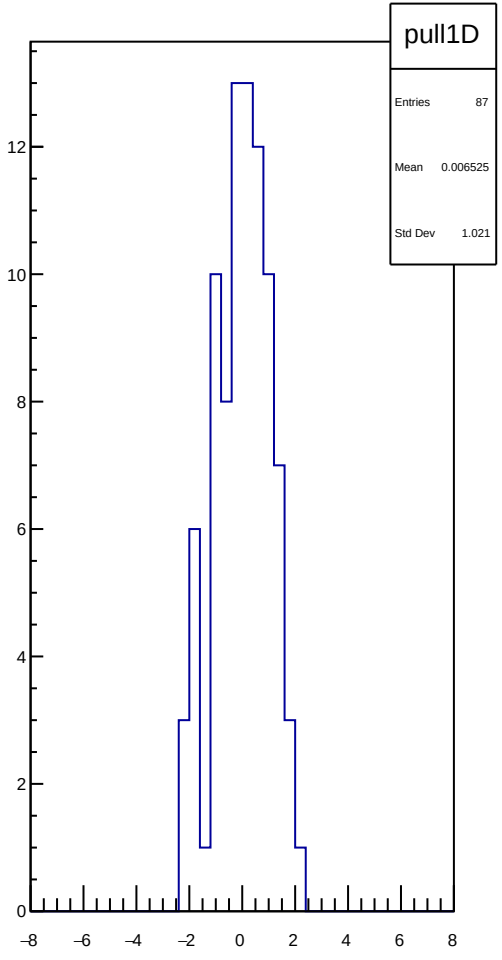


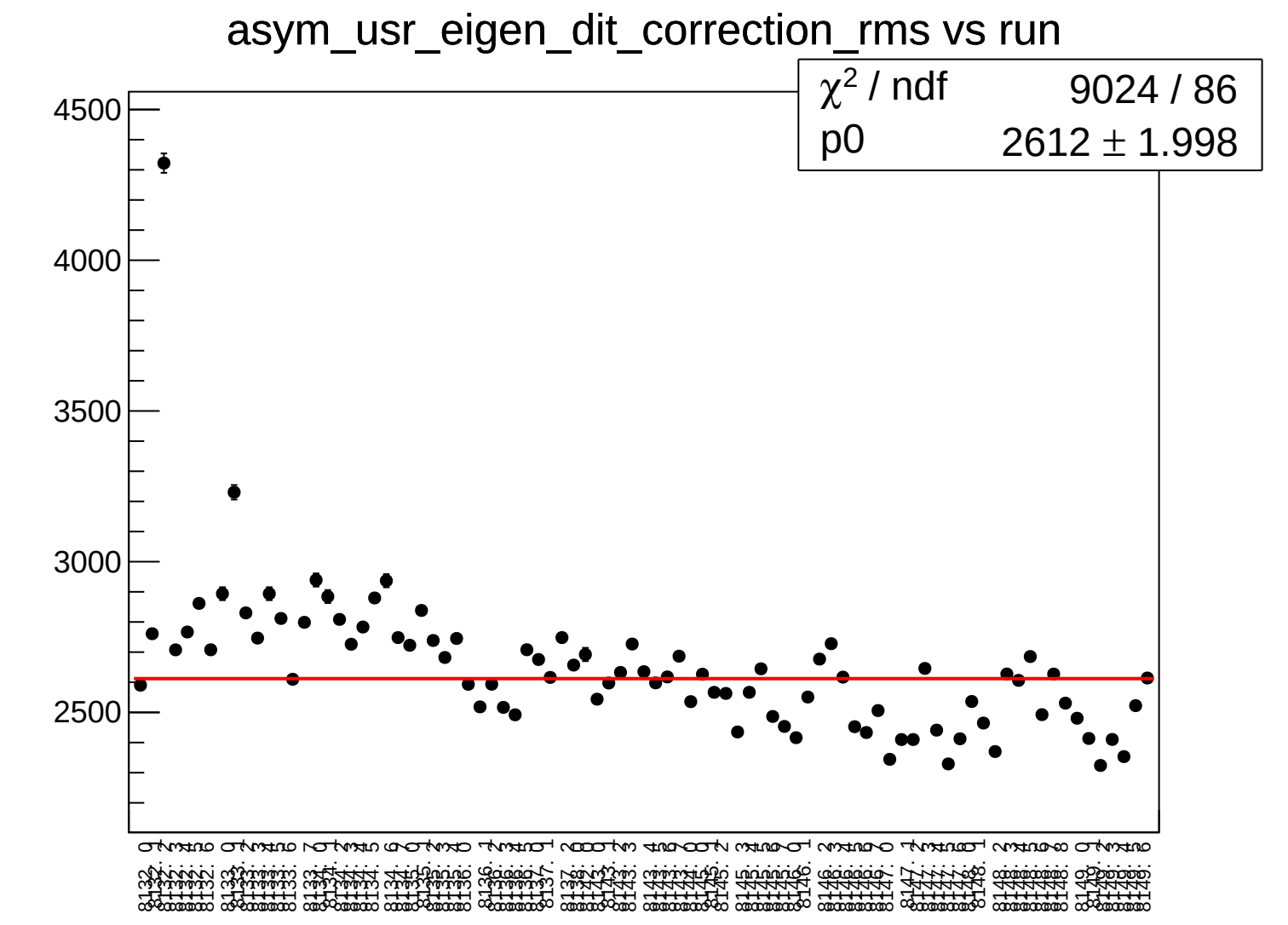

eigen_dit_asym_usr_mean vs run
χ² / ndf 73.75 / 86
p0 2245 ± 1185
pull
Entries 87
Mean −614.1
Std Dev 0

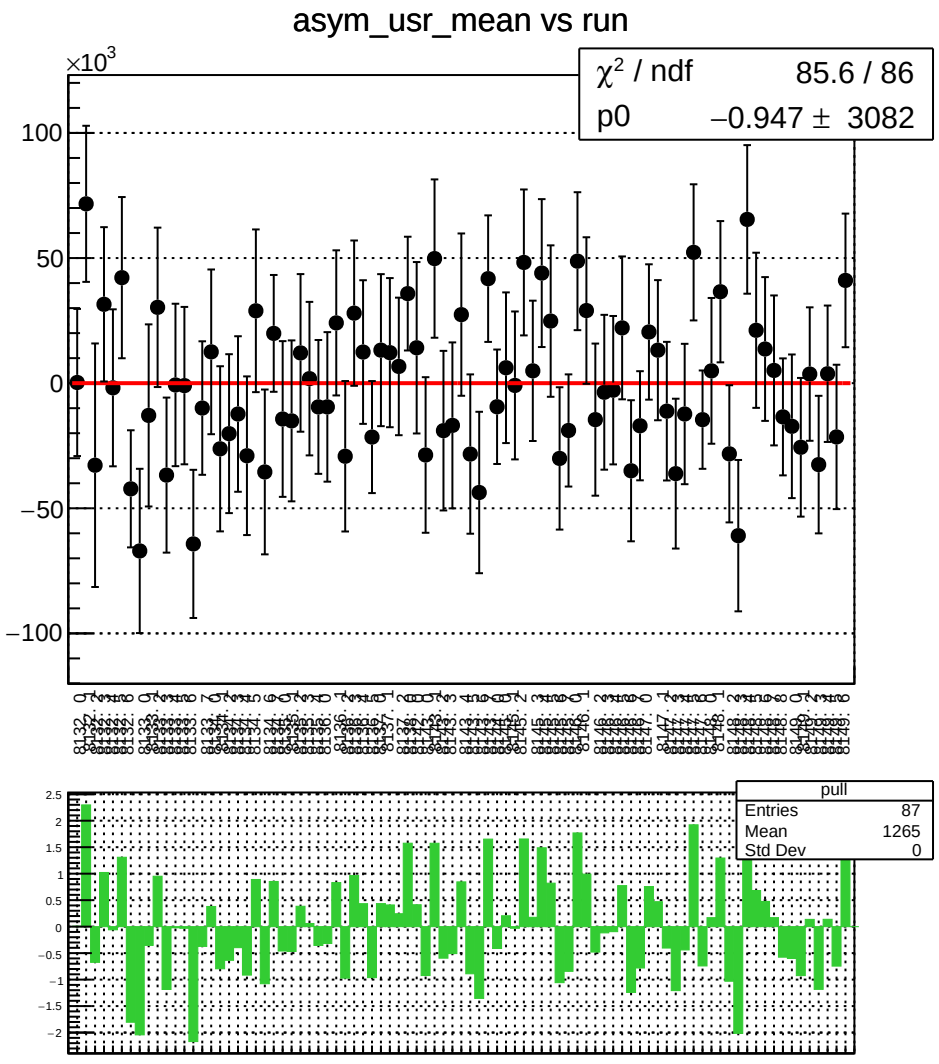

pull1D
Entries 87
Mean 0.00536
Std Dev 0.9207

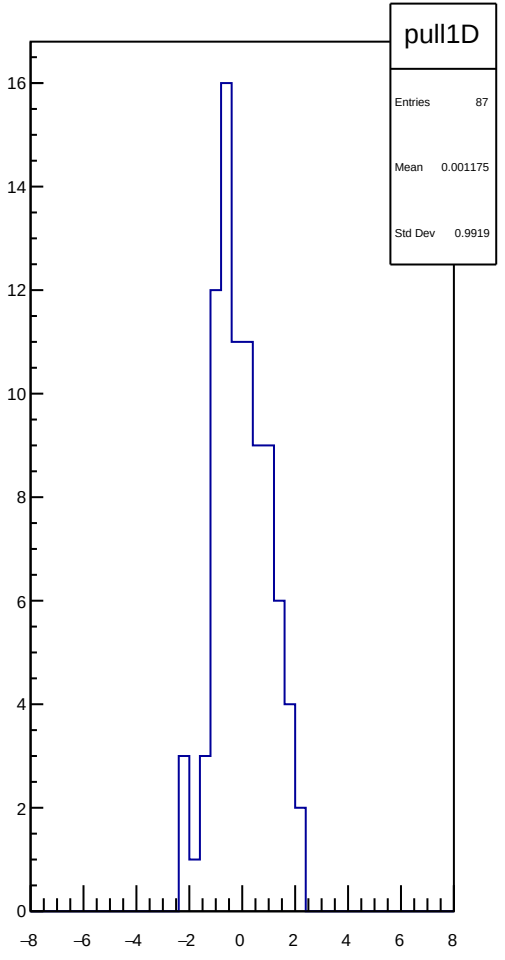

eigen_dit_asym_usr_rms vs run
χ² / ndf 804.4 / 86
p0 1098 ± 0.8379
1160
1140
1120
1100
1080
1060

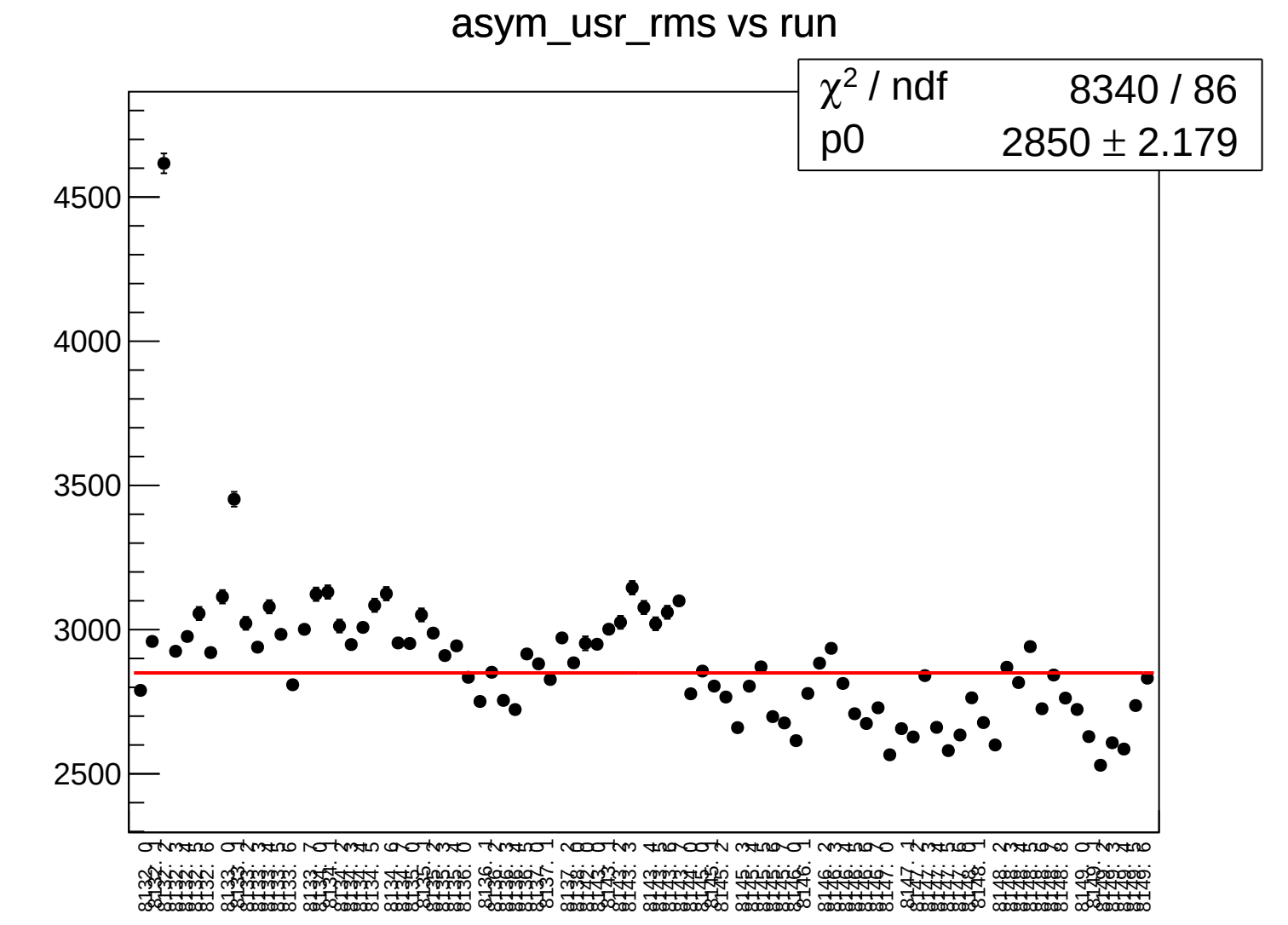

asym_usr_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 90.68 / 86
p0 1934 ± 2825
100
50
0
−50
−100
pull
Entries 87
Mean −416.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

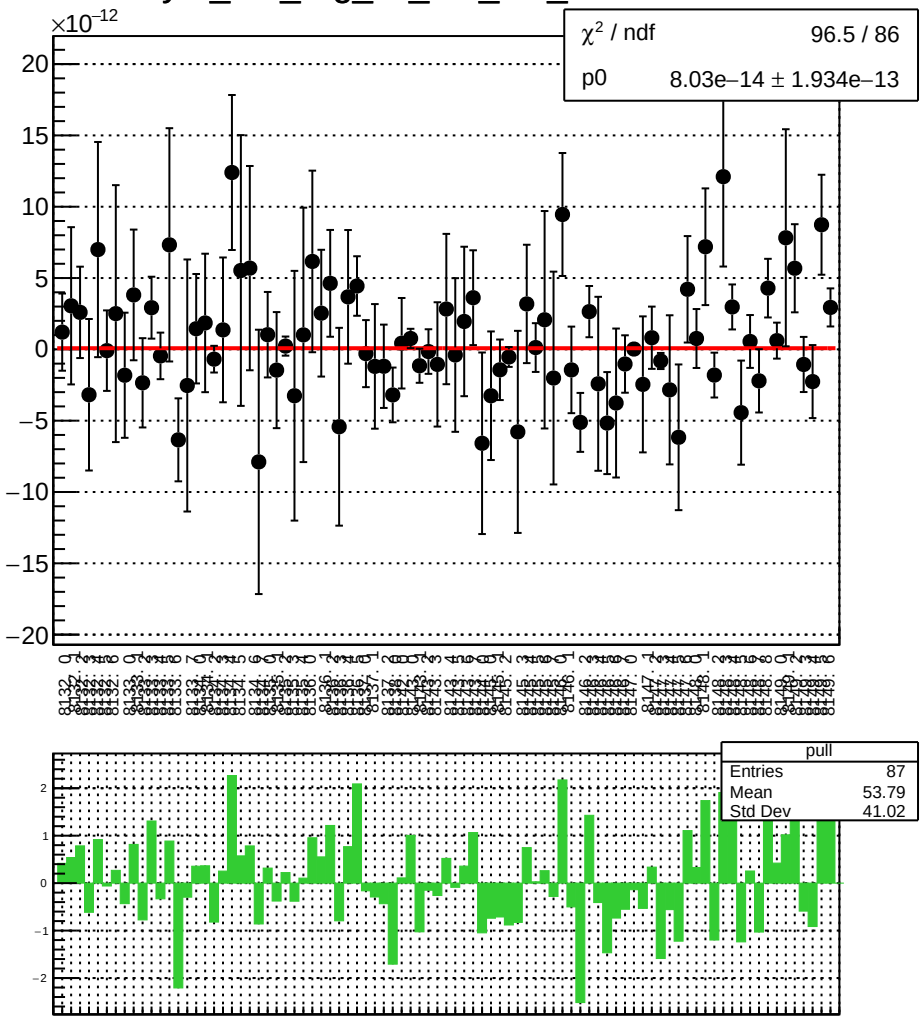

pull1D
Entries 87
Mean 0.006525
Std Dev 1.021
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

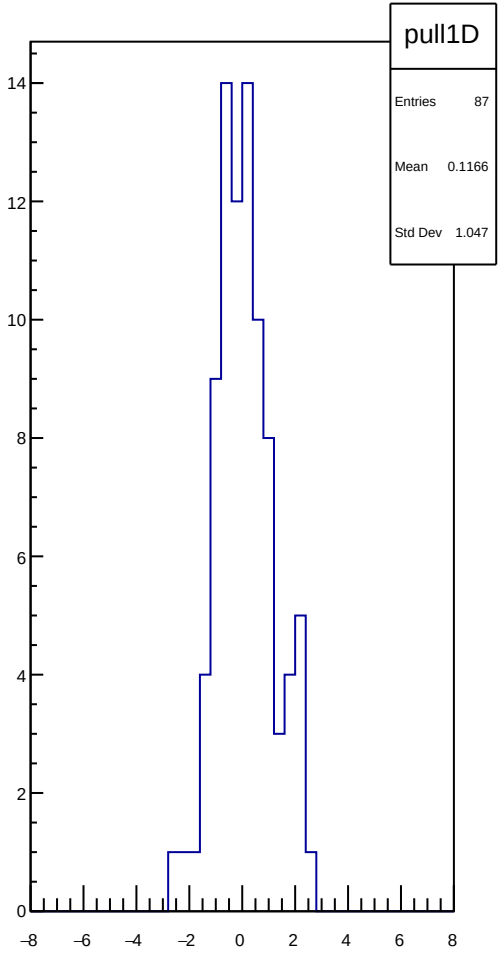

asym_usr_eigen_dit_correction_rms vs run
χ² / ndf 9024 / 86
p0 2612 ± 1.998
4500
4000
3500
3000
2500

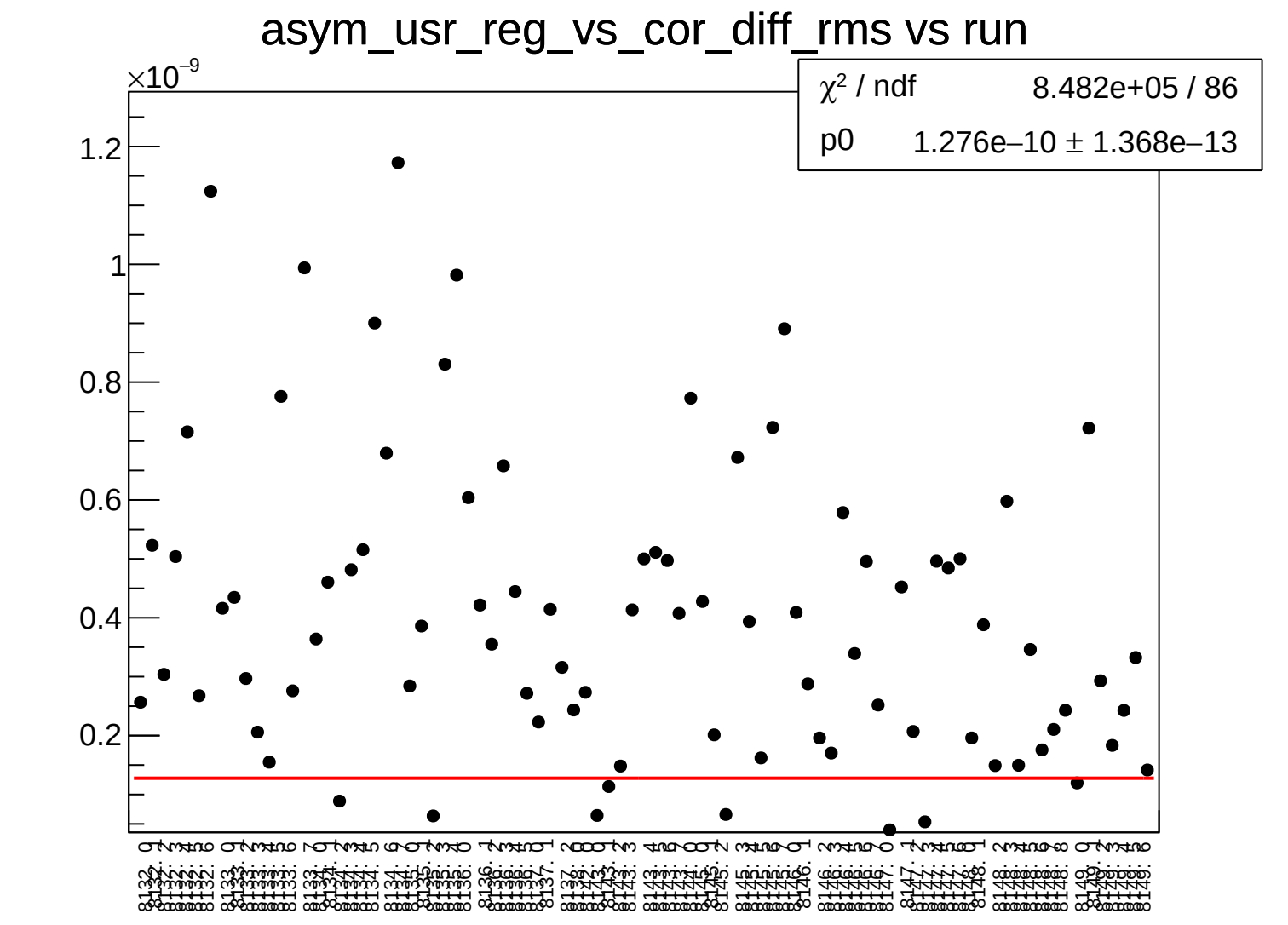

asym_usr_mean vs run
×10^3
χ² / ndf 85.6 / 86
p0 −0.947 ± 3082
100
50
0
−50
−100
pull
Entries 87
Mean 1265
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

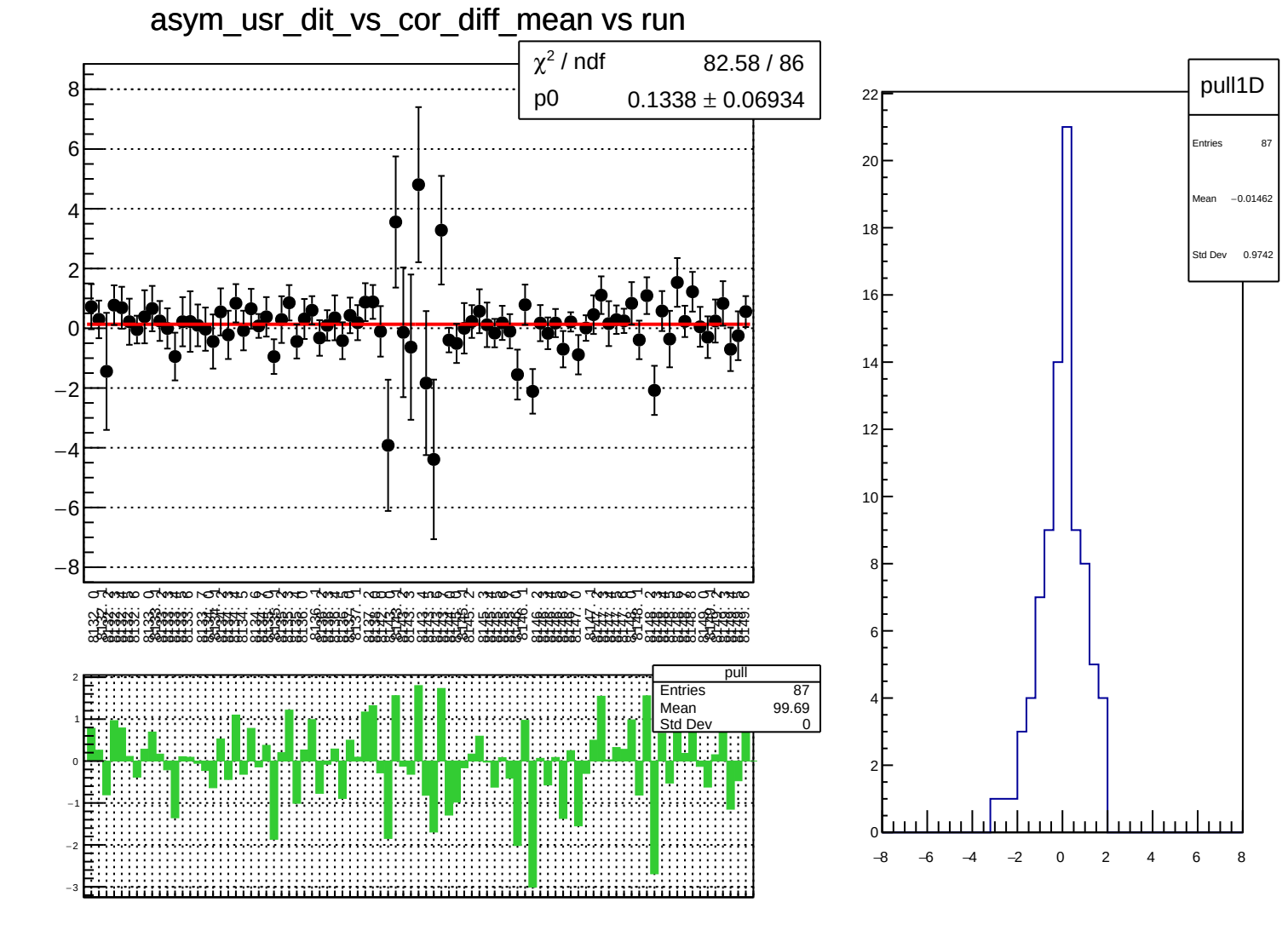

pull1D
Entries 87
Mean 0.001175
Std Dev 0.9919
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

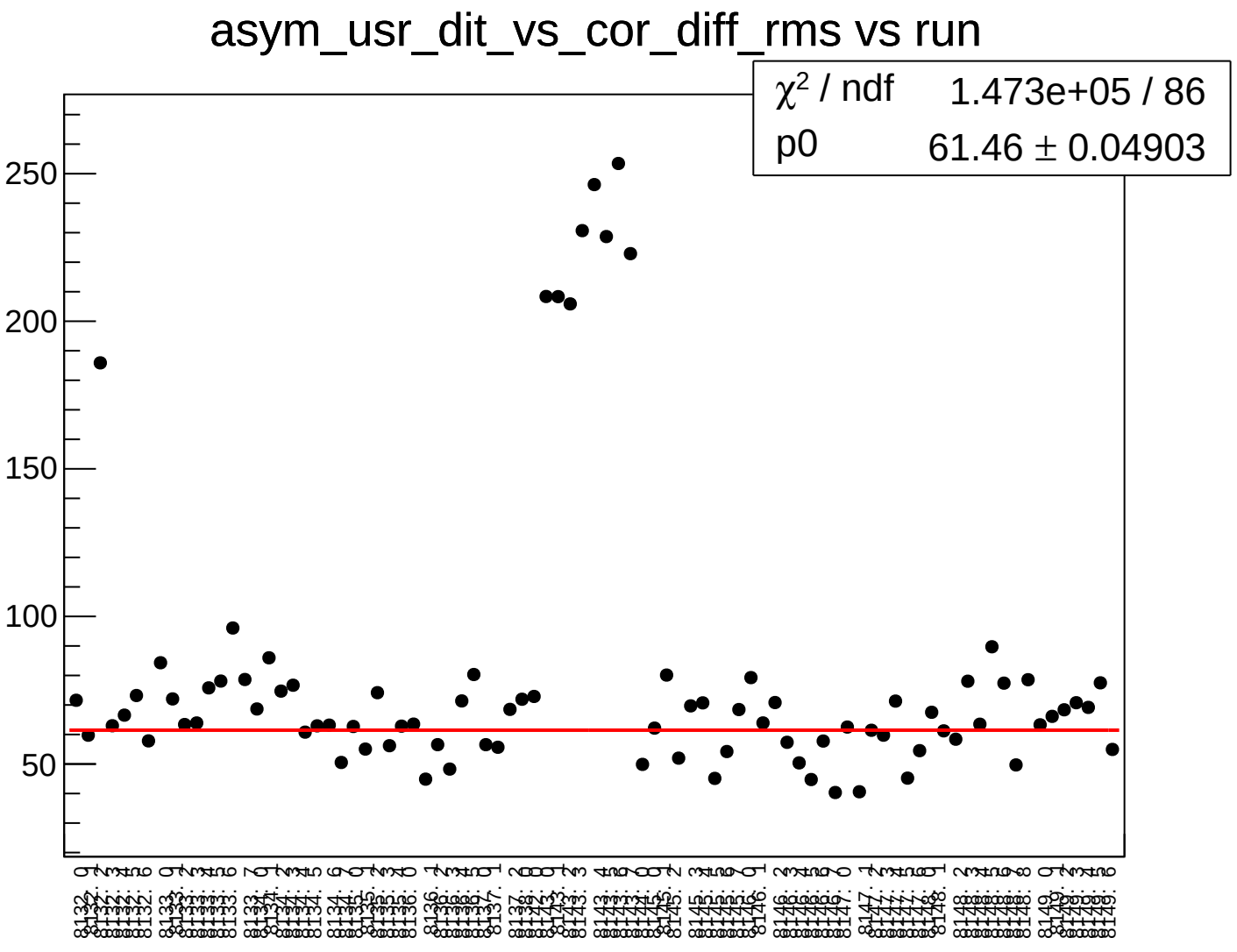

asym_usr_rms vs run
χ² / ndf 8340 / 86
p0 2850 ± 2.179
4500
4000
3500
3000
2500

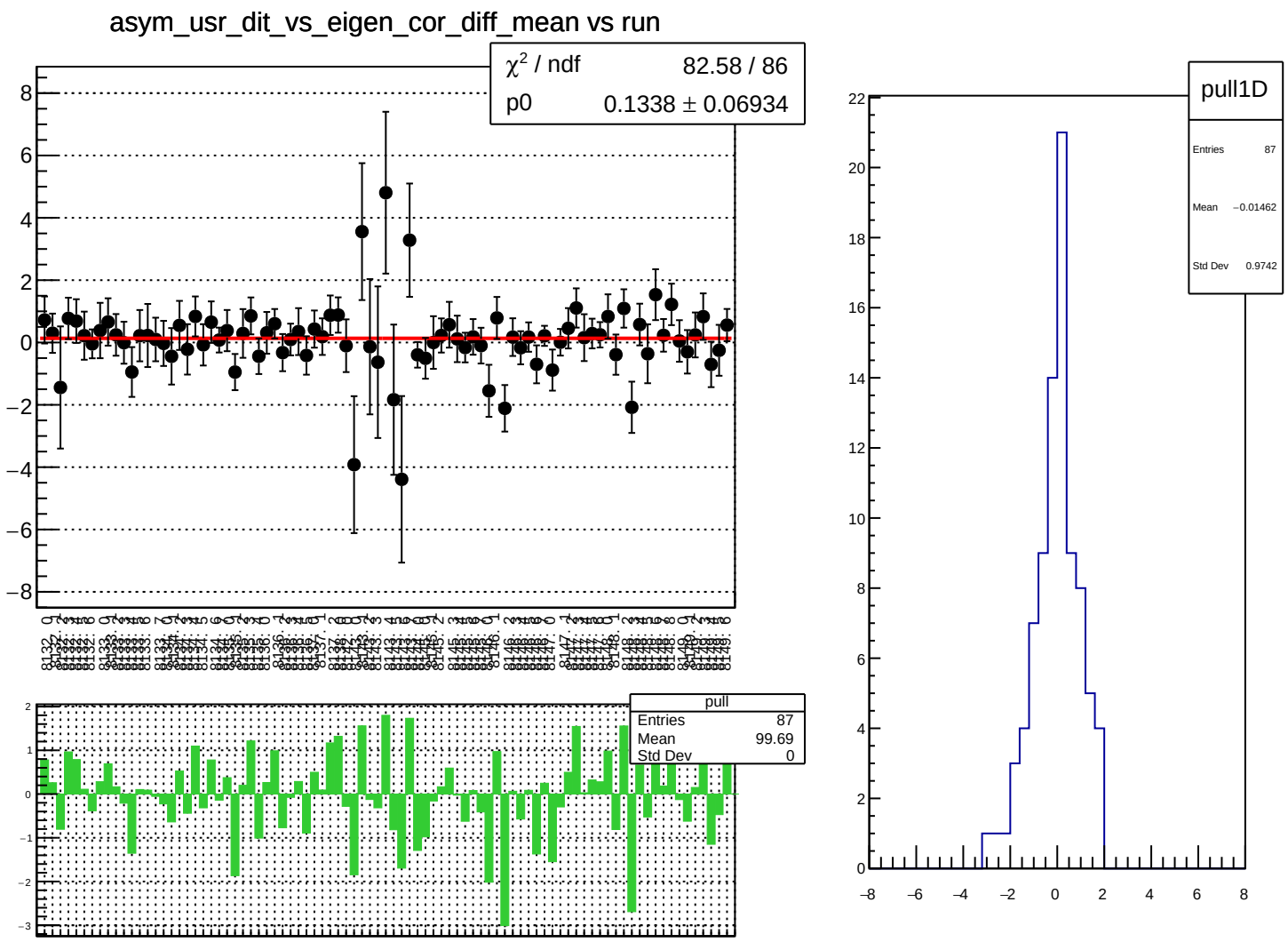

asym_usr_reg_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 96.5 / 86
p0 8.03e−14 ± 1.934e−13
pull
Entries 87
Mean 53.79
Std Dev 41.02

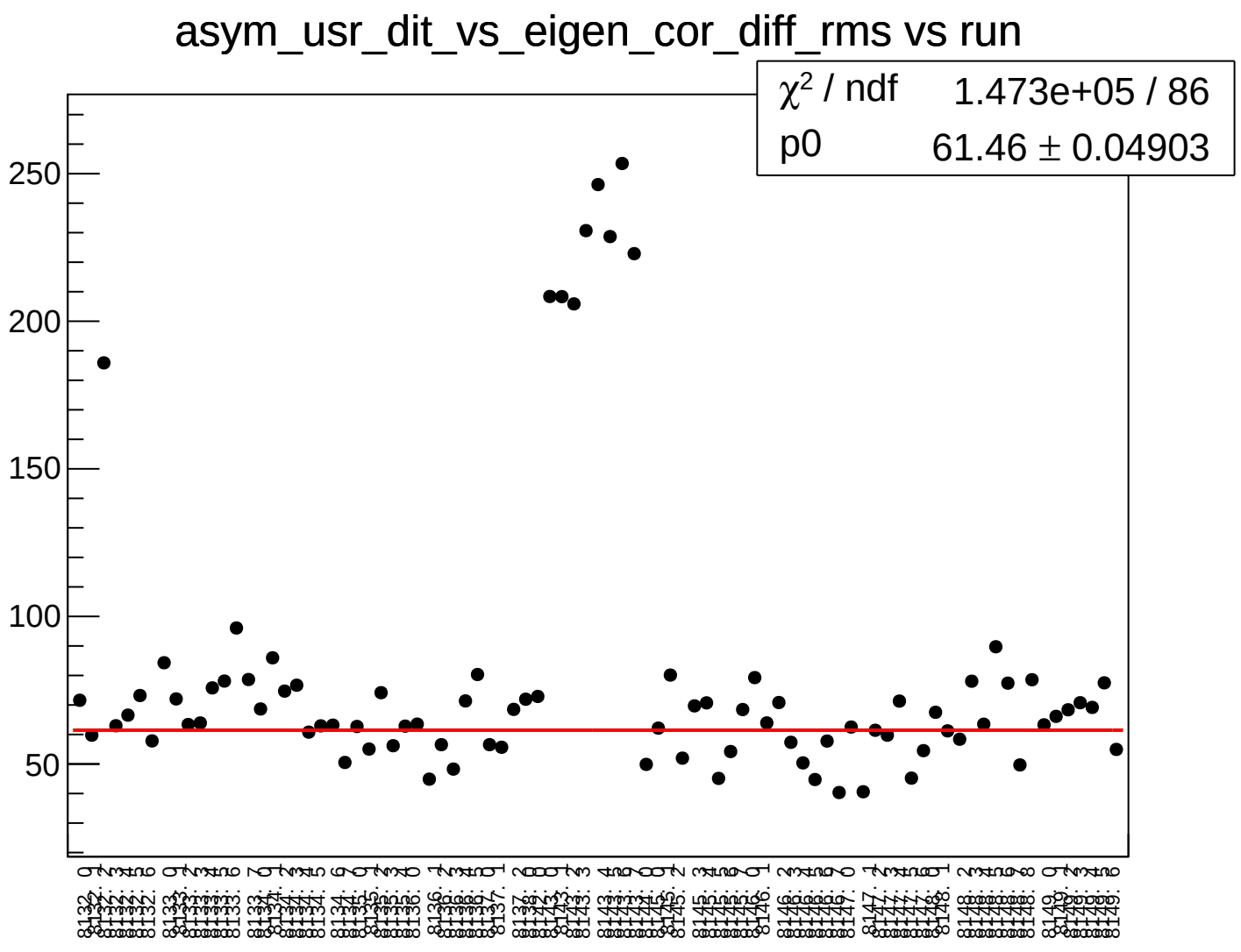

pull1D
Entries 87
Mean 0.1166
Std Dev 1.047

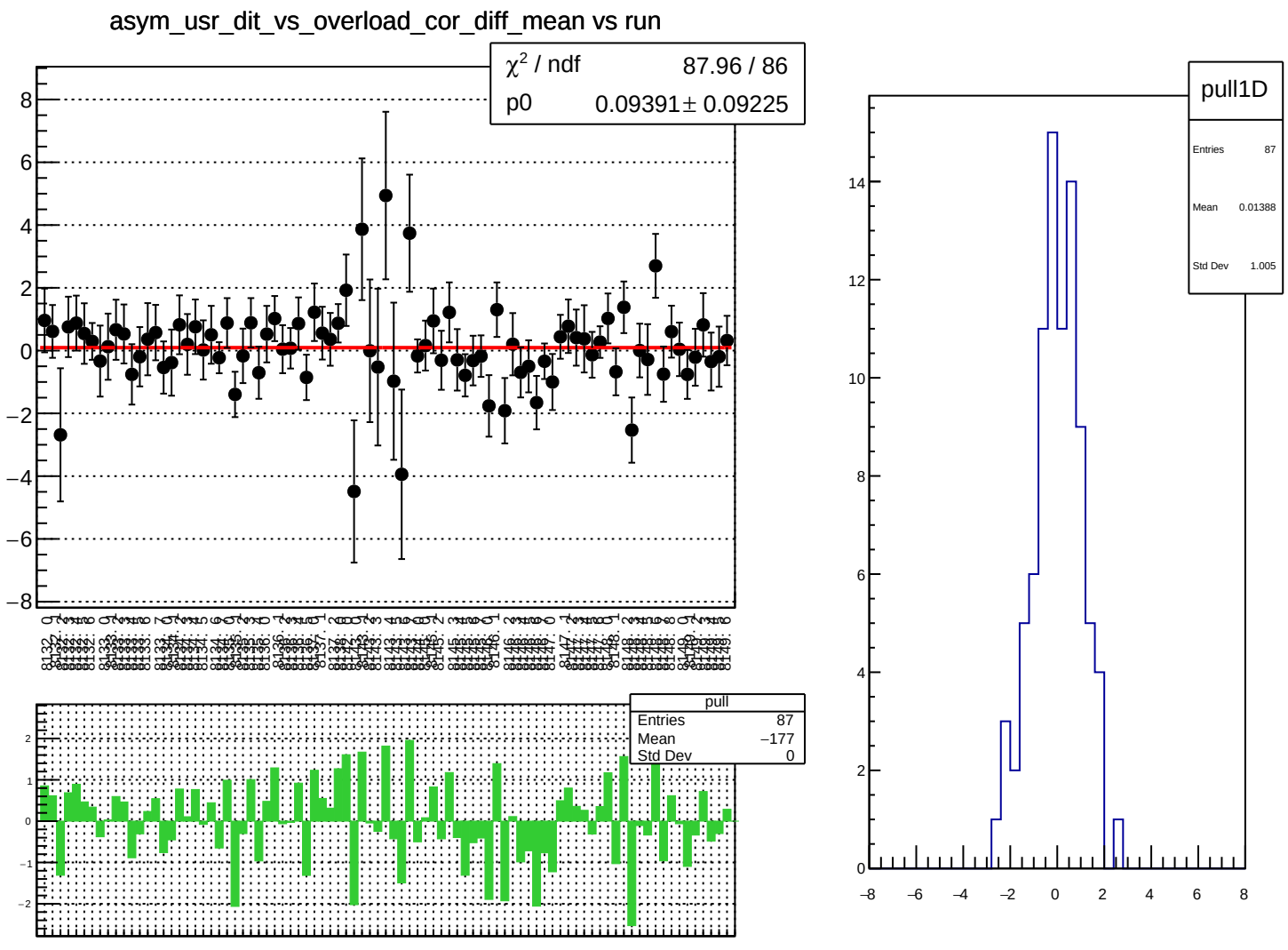

asym_usr_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.482e+05 / 86
p0 1.276e−10 ± 1.368e−13
1.2
1
0.8
0.6
0.4
0.2

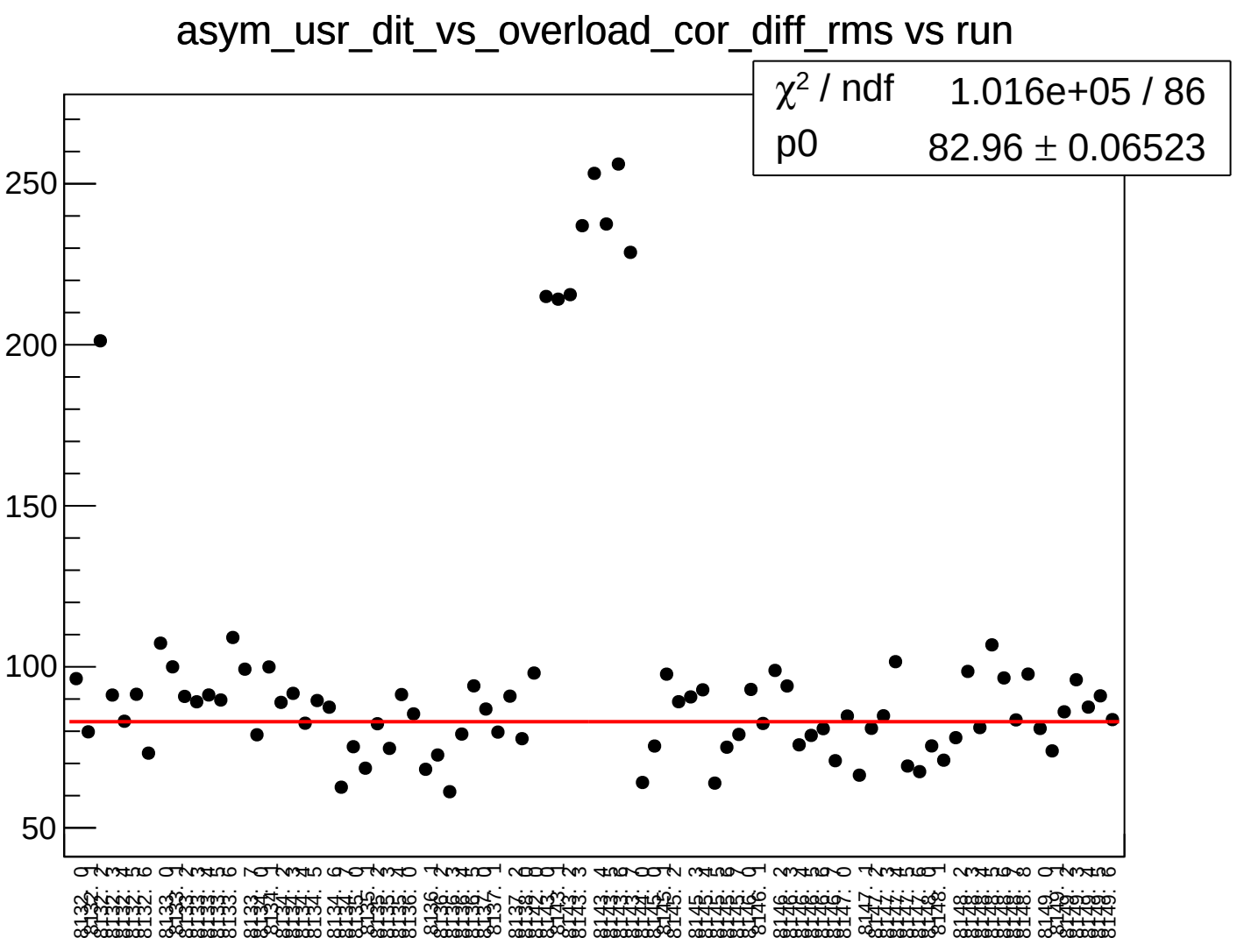

asym_usr_dit_vs_cor_diff_mean vs run
χ² / ndf 82.58 / 86
p0 0.1338 ± 0.06934
pull
Entries 87
Mean 99.69
Std Dev 0
pull1D
Entries 87
Mean −0.01462
Std Dev 0.9742

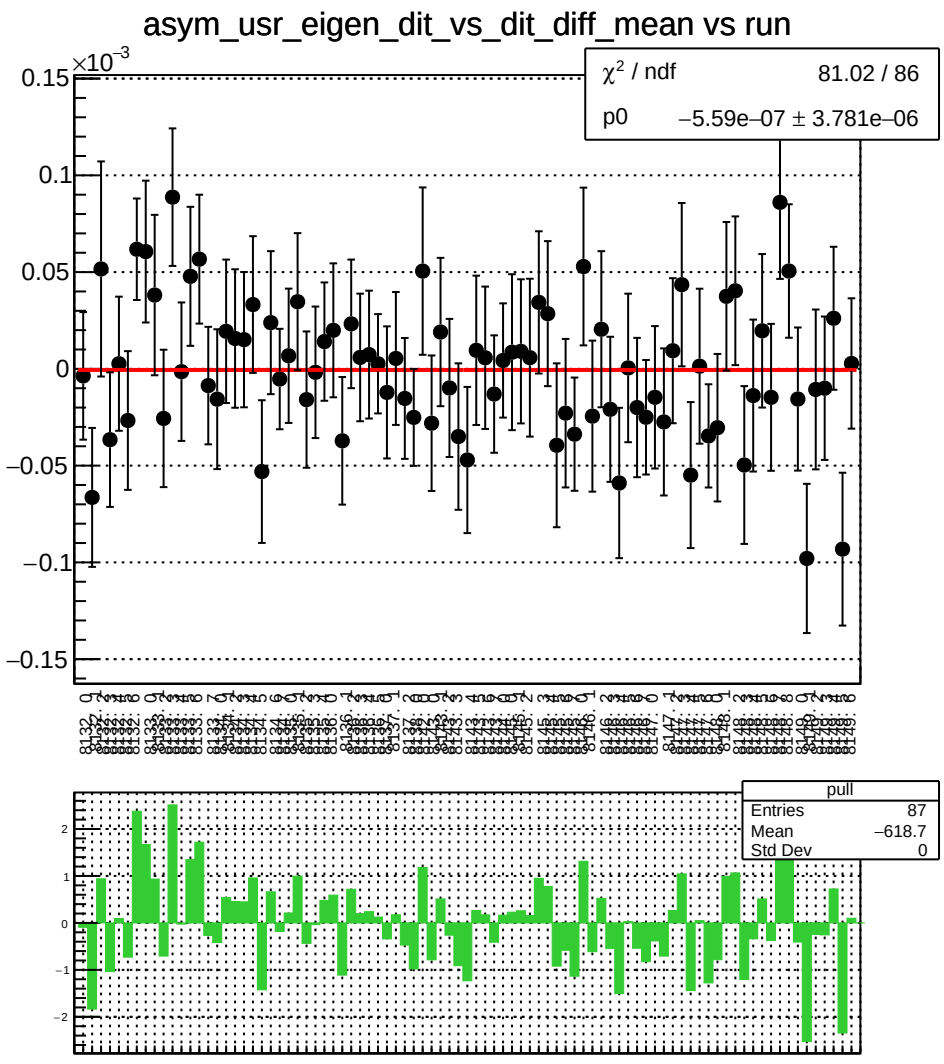

asym_usr_dit_vs_cor_diff_rms vs run
χ² / ndf 1.473e+05 / 86
p0 61.46 ± 0.04903
250
200
150
100
50

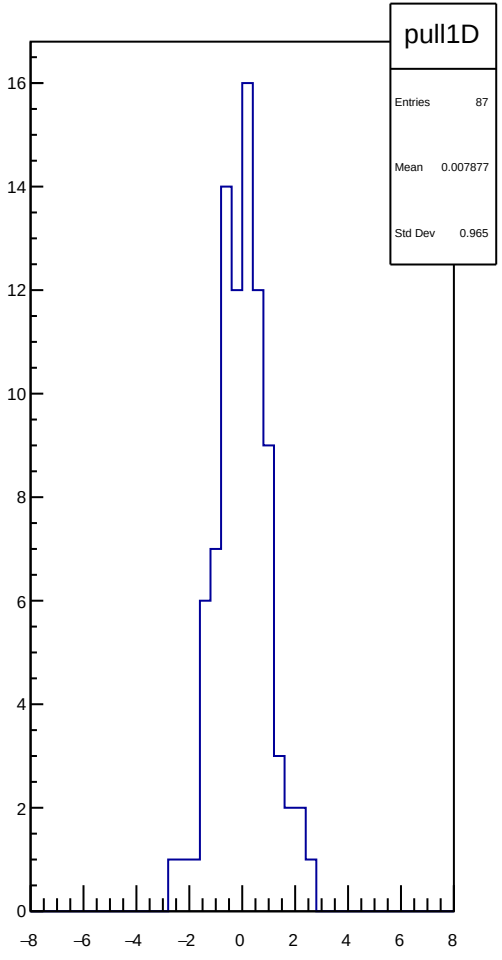

asym_usr_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.58 / 86
p0 0.1338 ± 0.06934
pull
Entries 87
Mean 99.69
Std Dev 0
pull1D
Entries 87
Mean −0.01462
Std Dev 0.9742

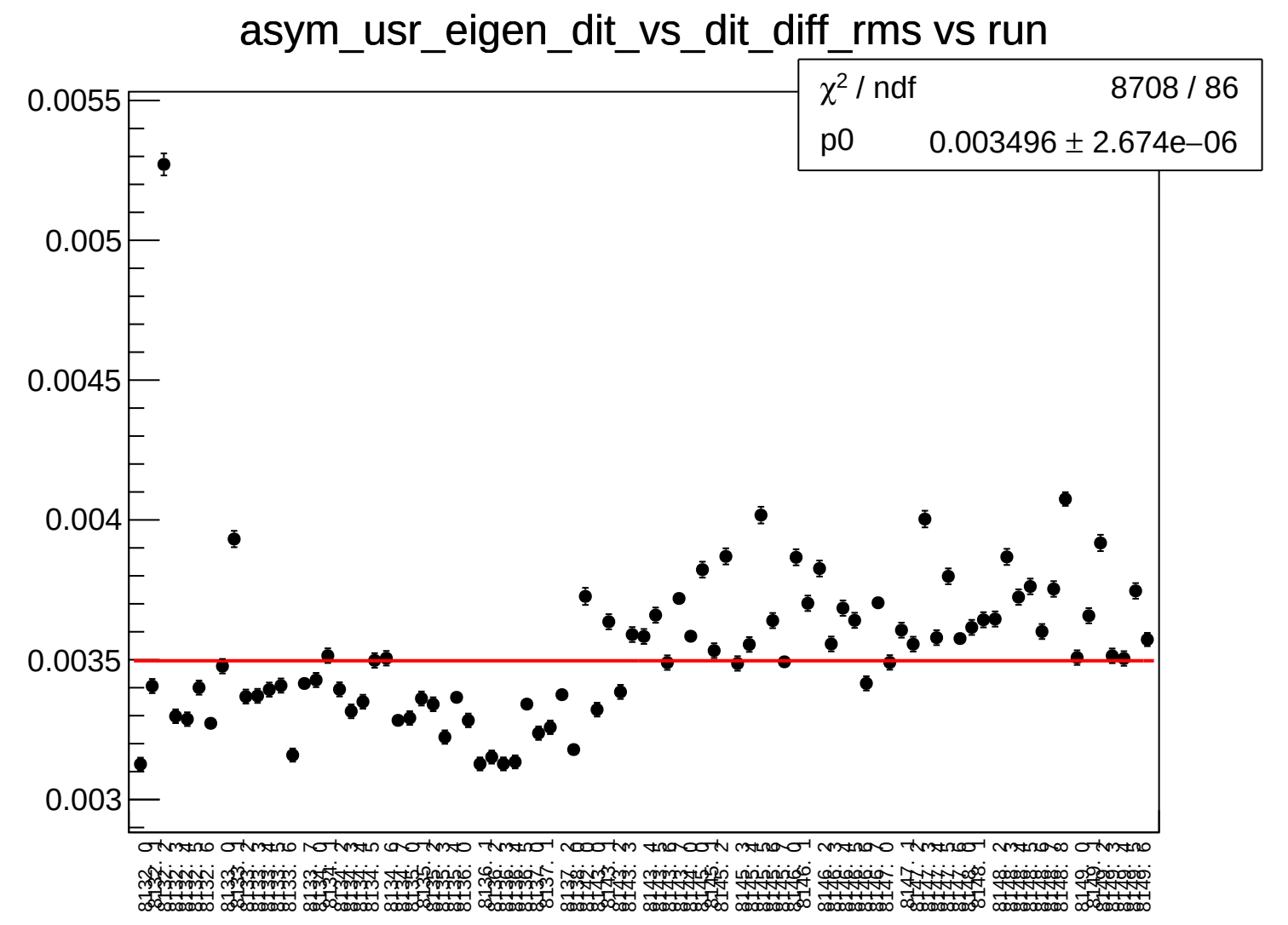

asym_usr_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.473e+05 / 86
p0 61.46 ± 0.04903
250
200
150
100
50

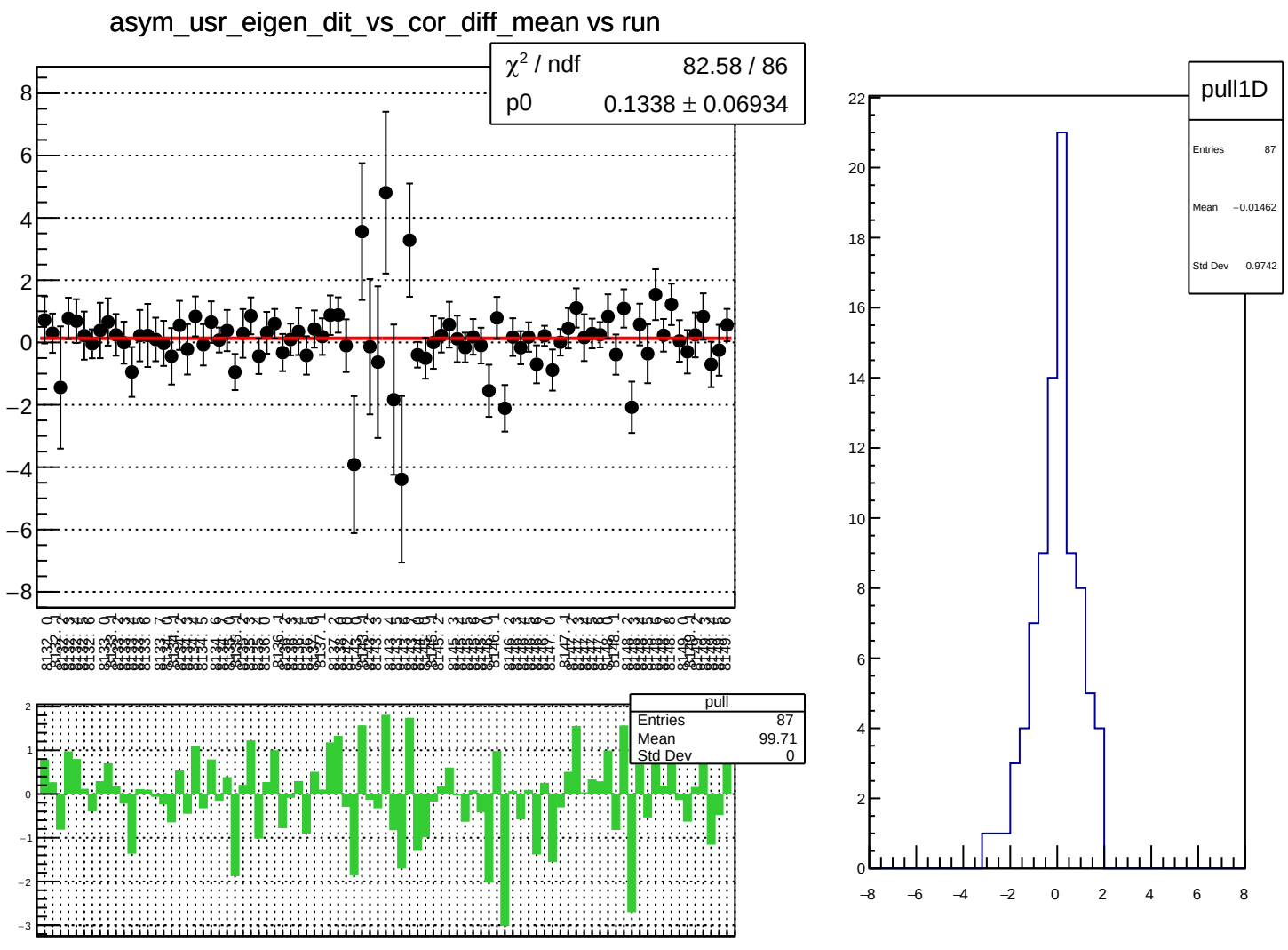

asym_usr_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 87.96 / 86
p0 0.09391 ± 0.09225
pull
Entries 87
Mean −177
Std Dev 0
pull1D
Entries 87
Mean 0.01388
Std Dev 1.005

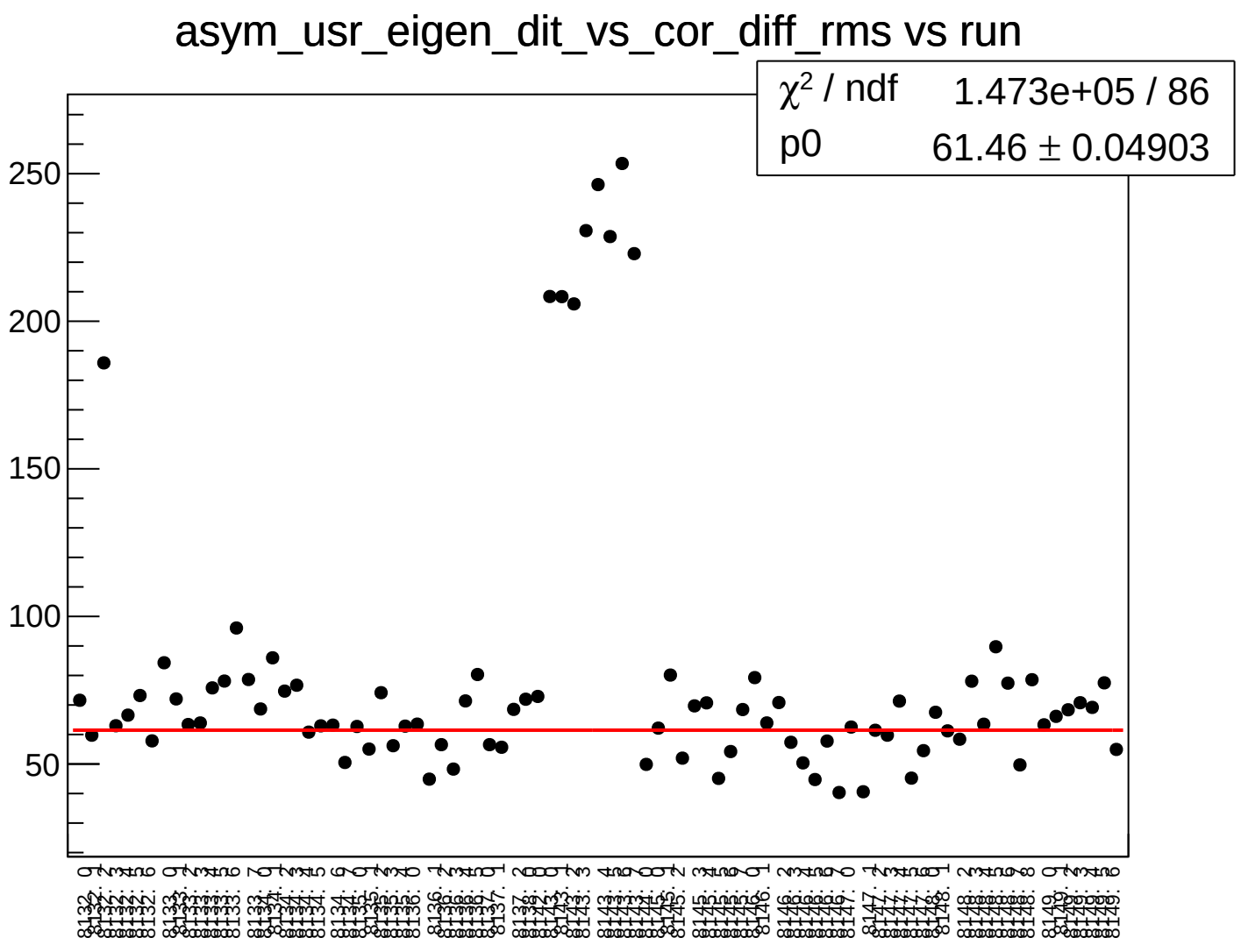

asym_usr_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.016e+05 / 86
p0 82.96 ± 0.06523
250
200
150
100
50

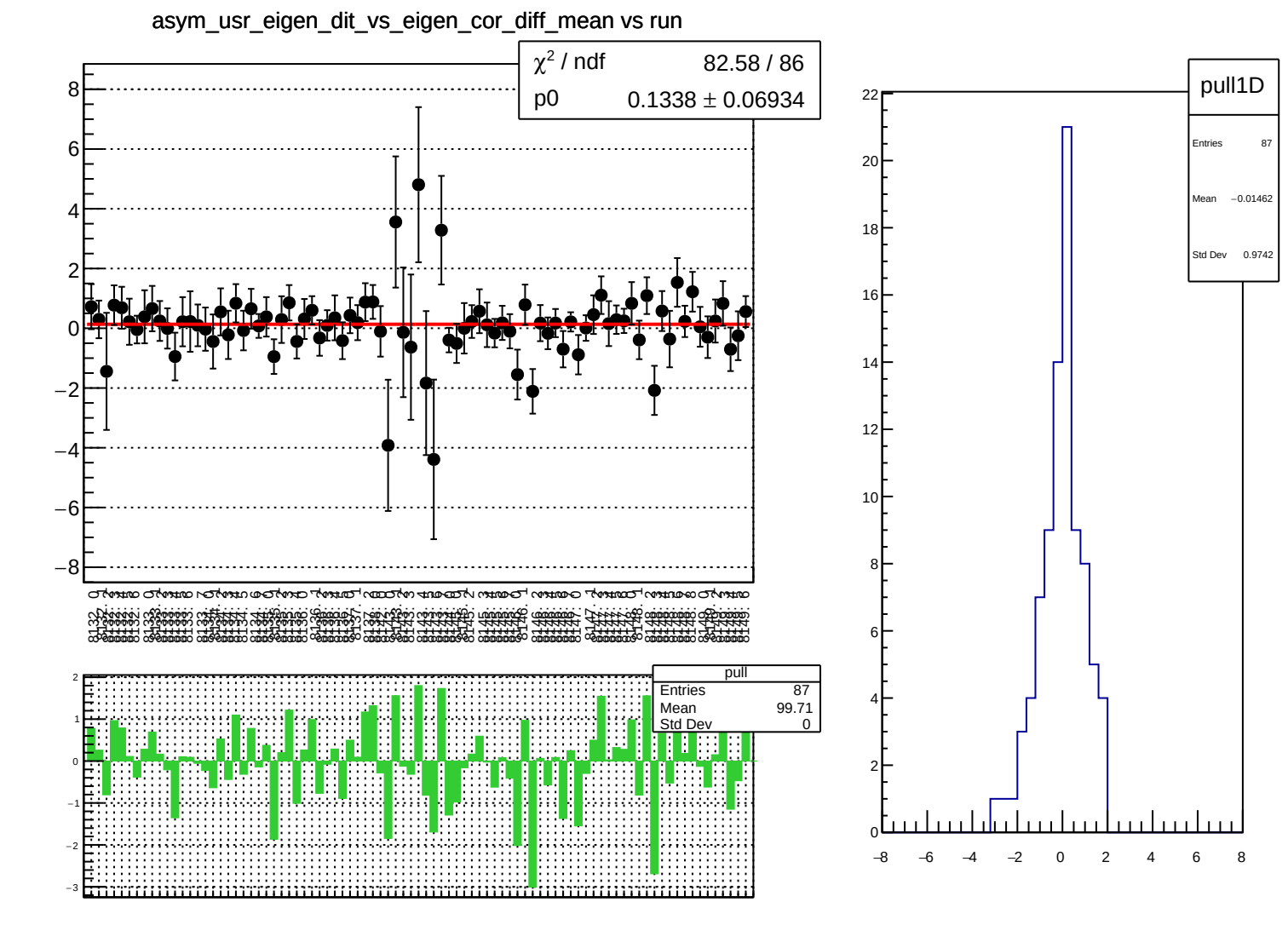

asym_usr_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 81.02 / 86
p0 −5.59e−07 ± 3.781e−06
pull
Entries 87
Mean −618.7
Std Dev 0

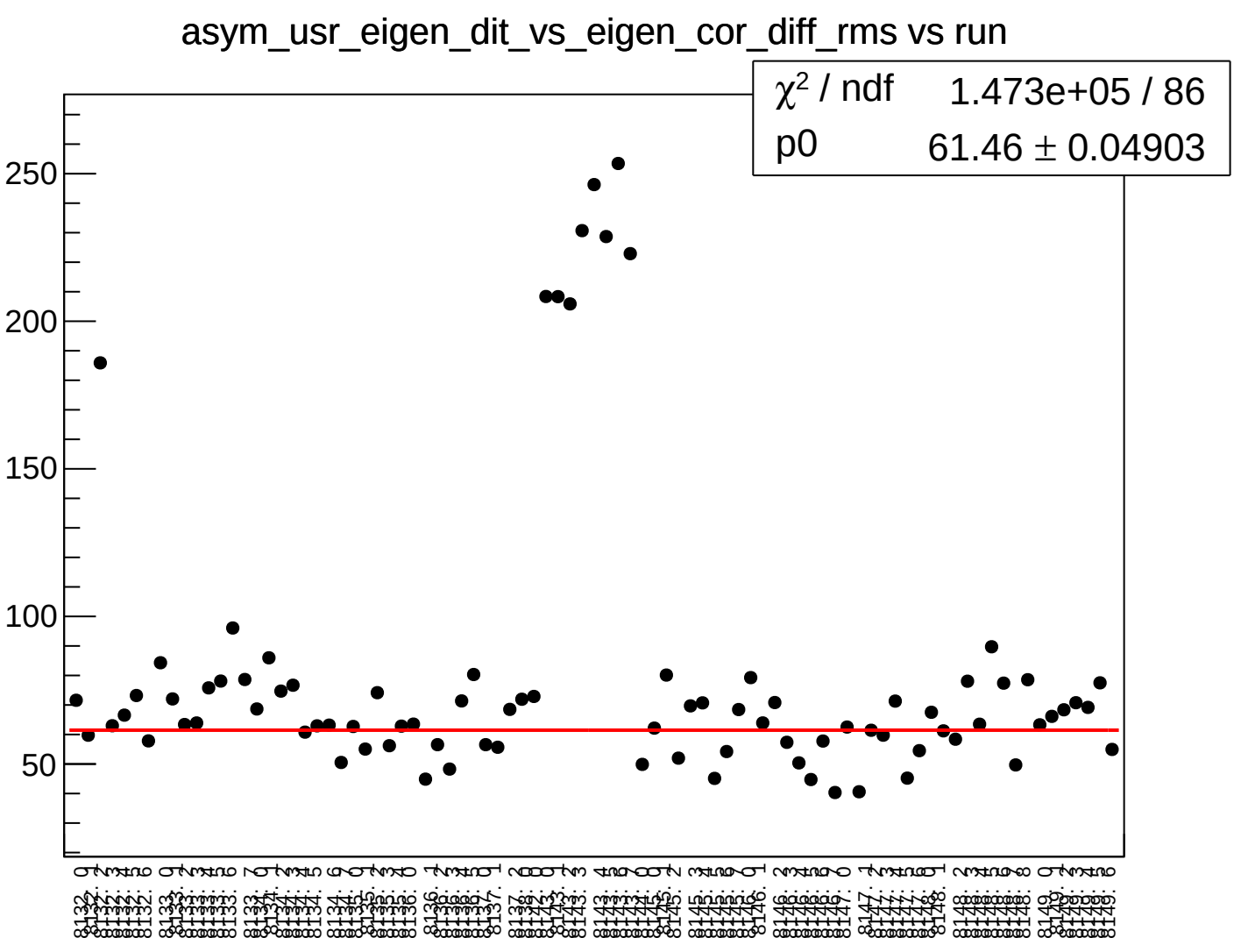

pull1D
Entries 87
Mean 0.007877
Std Dev 0.965

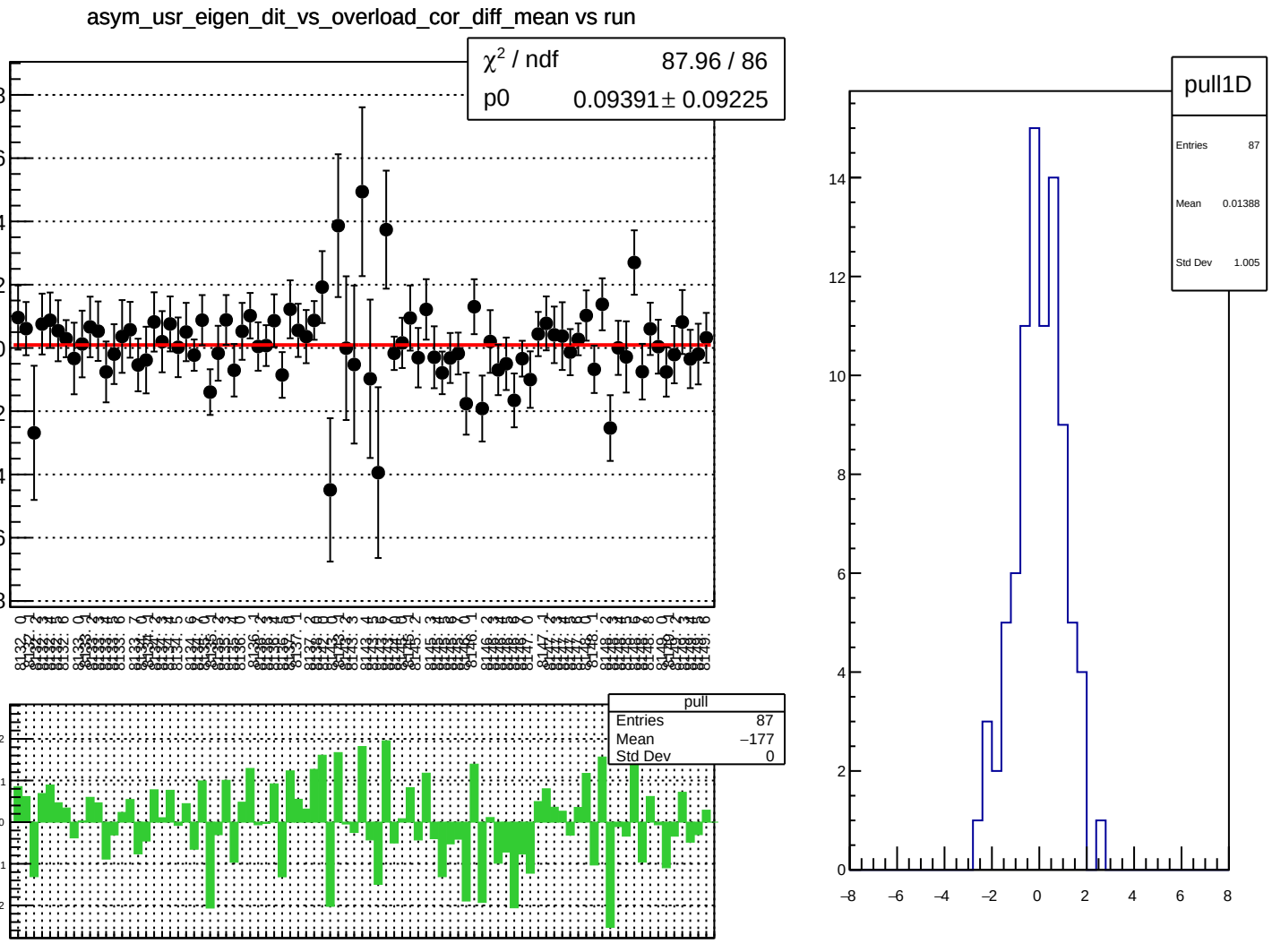

asym_usr_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8708 / 86
p0 0.003496 ± 2.674e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003

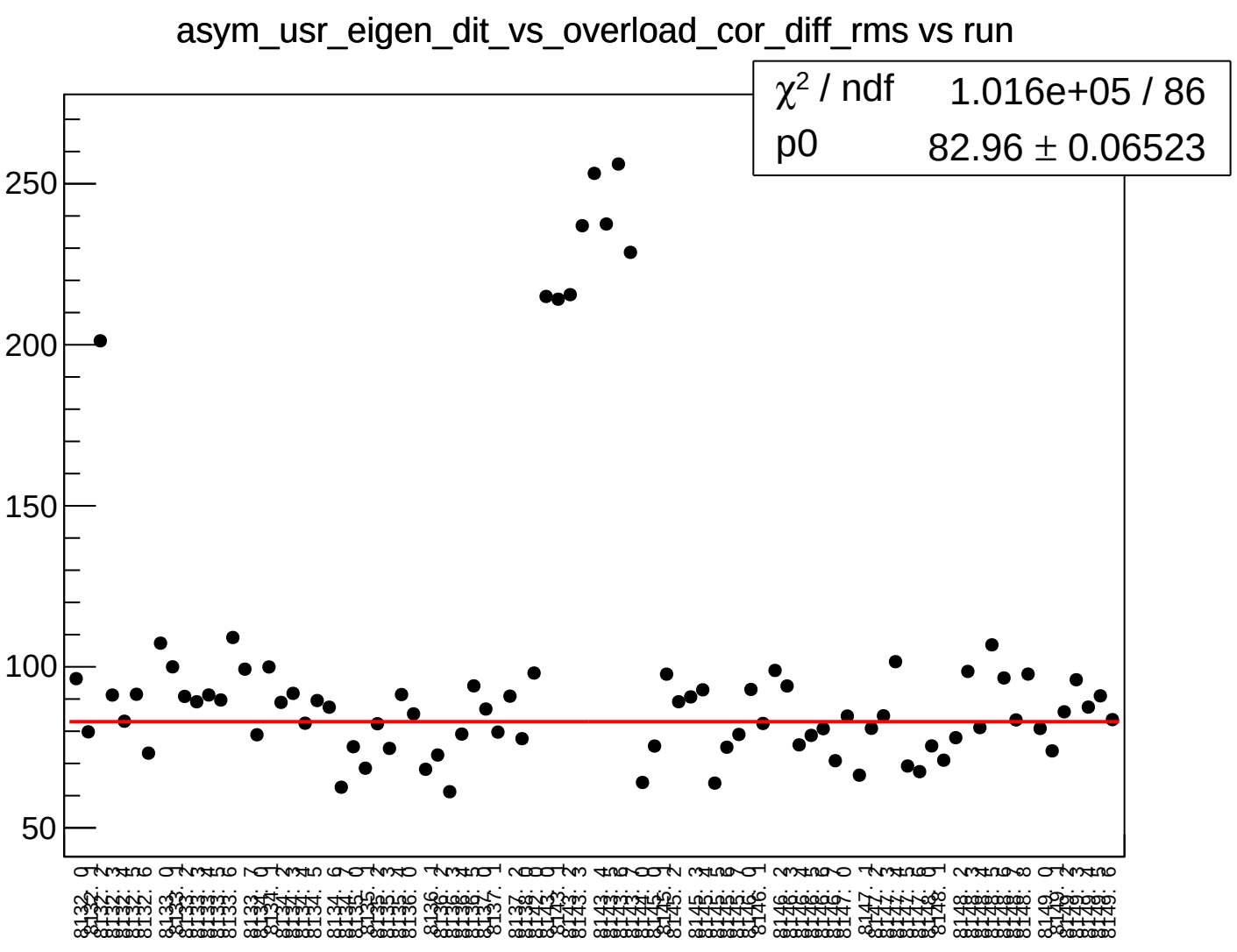

asym_usr_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.58 / 86
p0 0.1338 ± 0.06934
pull
Entries 87
Mean 99.71
Std Dev 0
pull1D
Entries 87
Mean −0.01462
Std Dev 0.9742

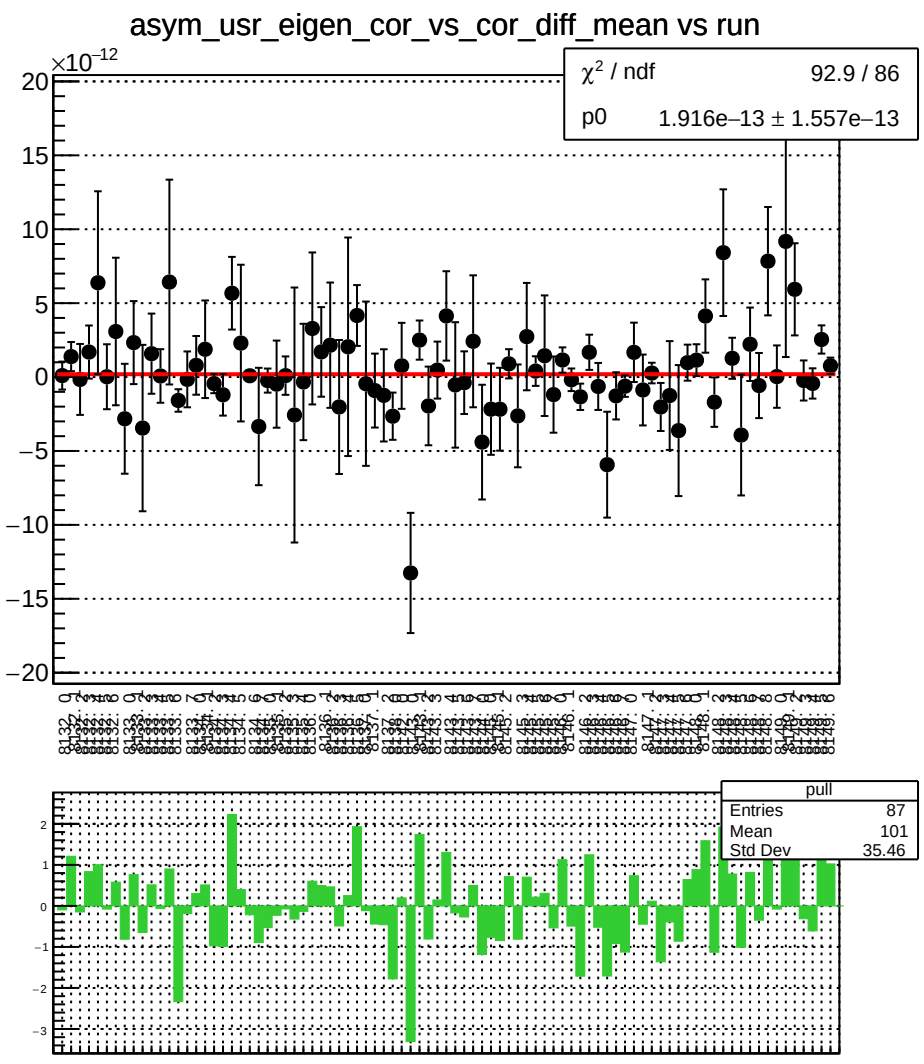

asym_usr_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.473e+05 / 86
p0 61.46 ± 0.04903
250
200
150
100
50

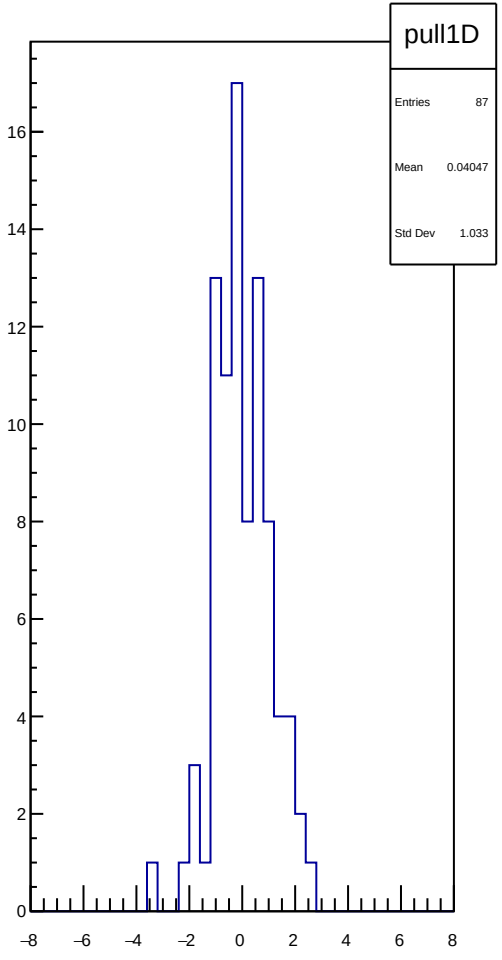

asym_usr_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.58 / 86
p0 0.1338 ± 0.06934
pull
Entries 87
Mean 99.71
Std Dev 0
pull1D
Entries 87
Mean −0.01462
Std Dev 0.9742

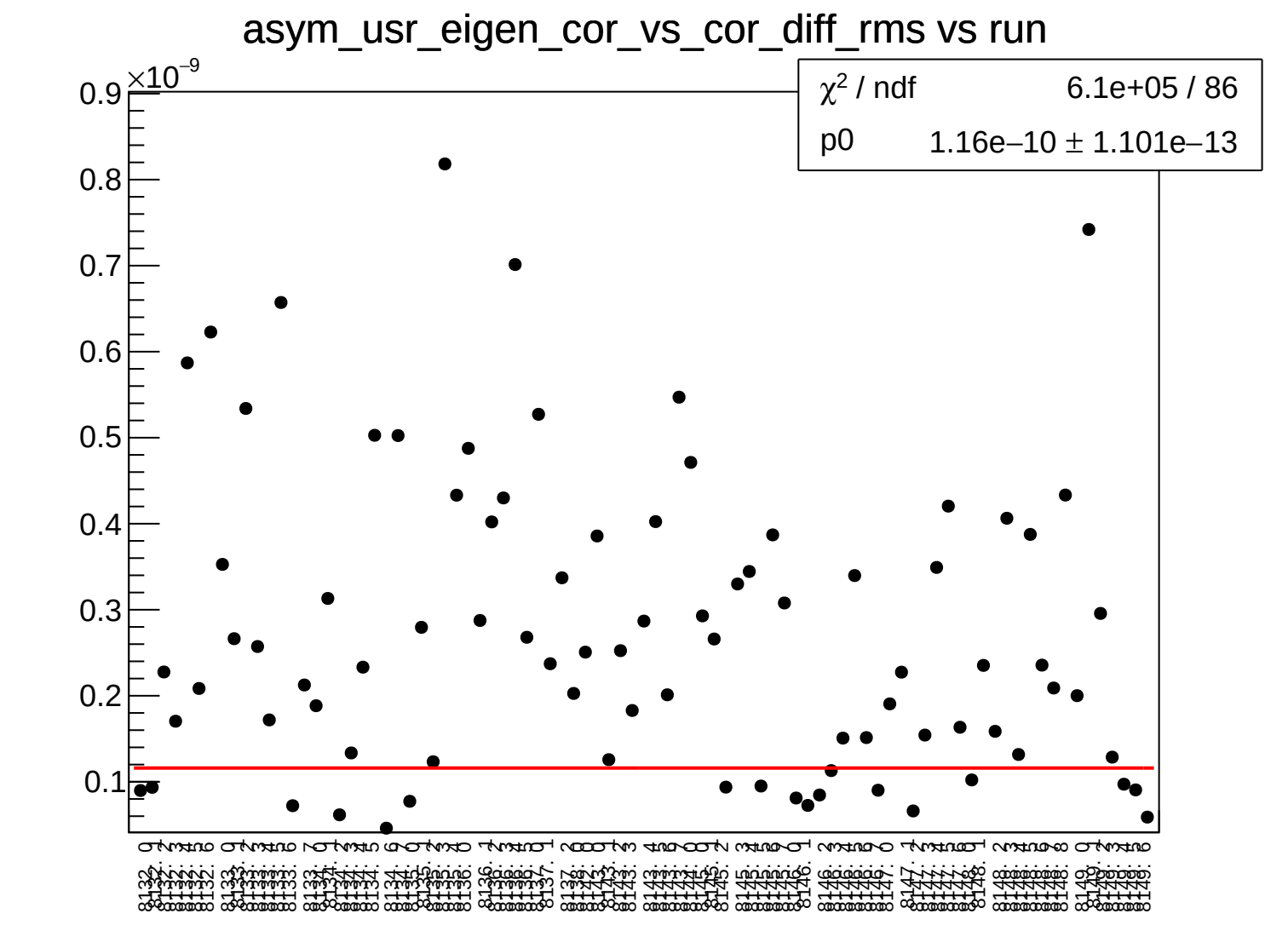

asym_usr_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.473e+05 / 86
p0 61.46 ± 0.04903
250
200
150
100
50

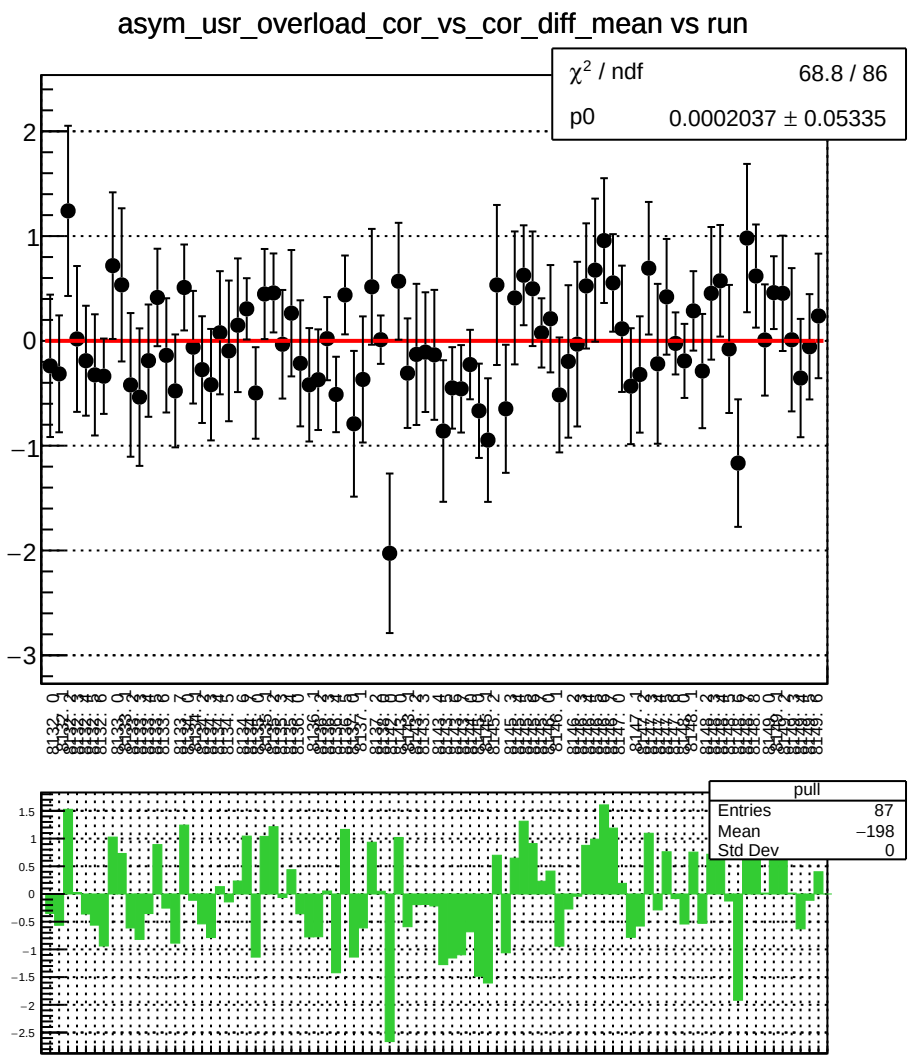

asym_usr_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 87.96 / 86
p0 0.09391 ± 0.09225
pull
Entries 87
Mean −177
Std Dev 0
pull1D
Entries 87
Mean 0.01388
Std Dev 1.005

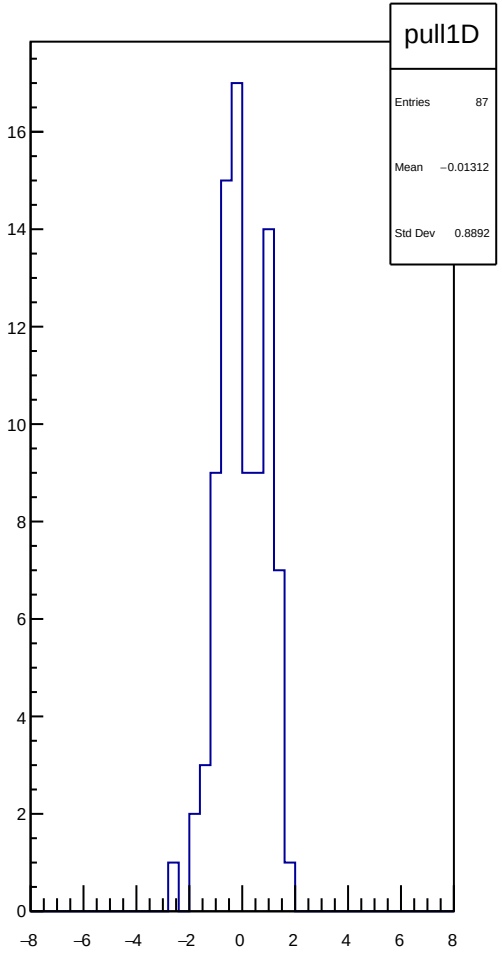

asym_usr_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.016e+05 / 86
p0 82.96 ± 0.06523
250
200
150
100
50

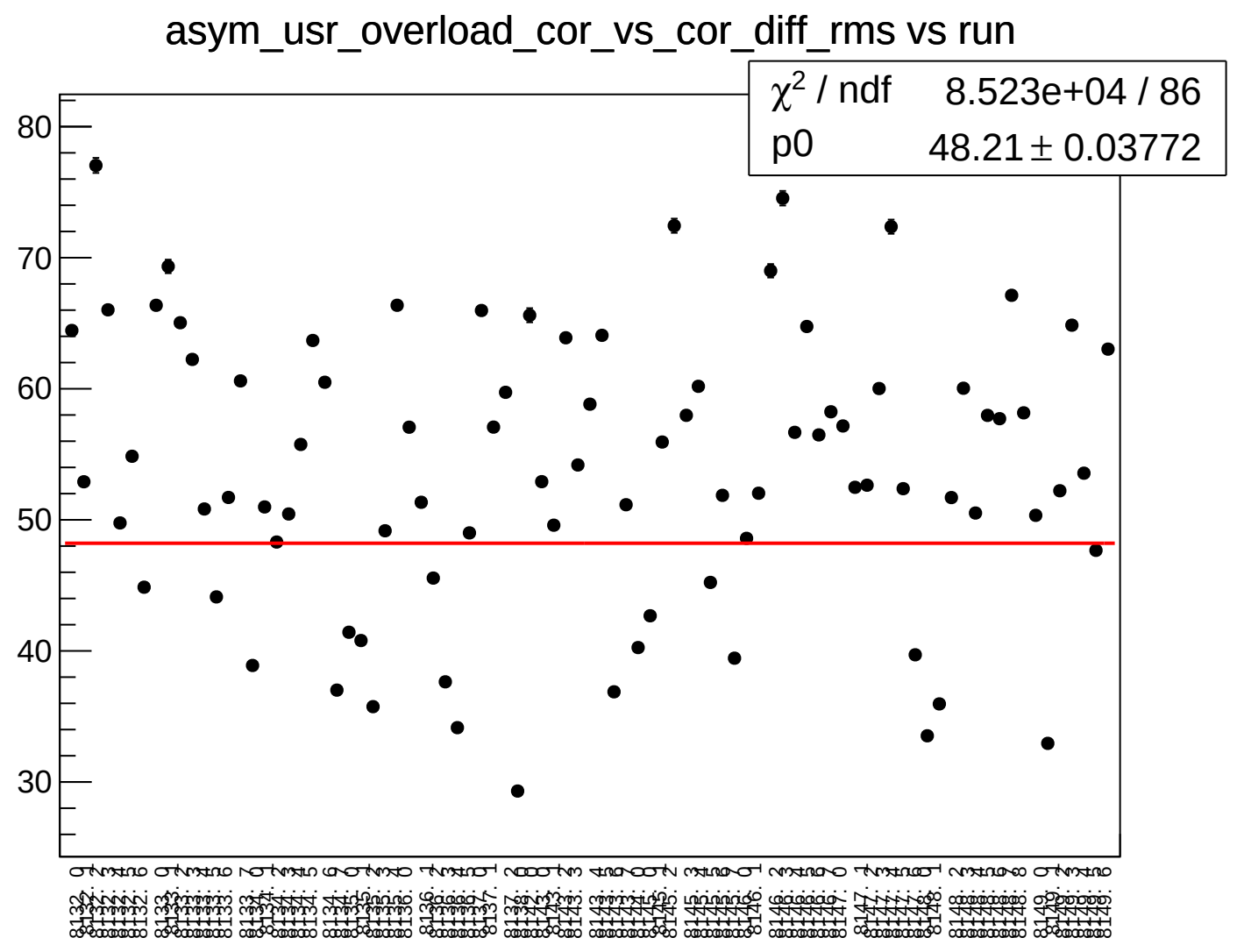

asym_usr_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.9 / 86
p0 1.916e−13 ± 1.557e−13
pull
Entries 87
Mean 101
Std Dev 35.46

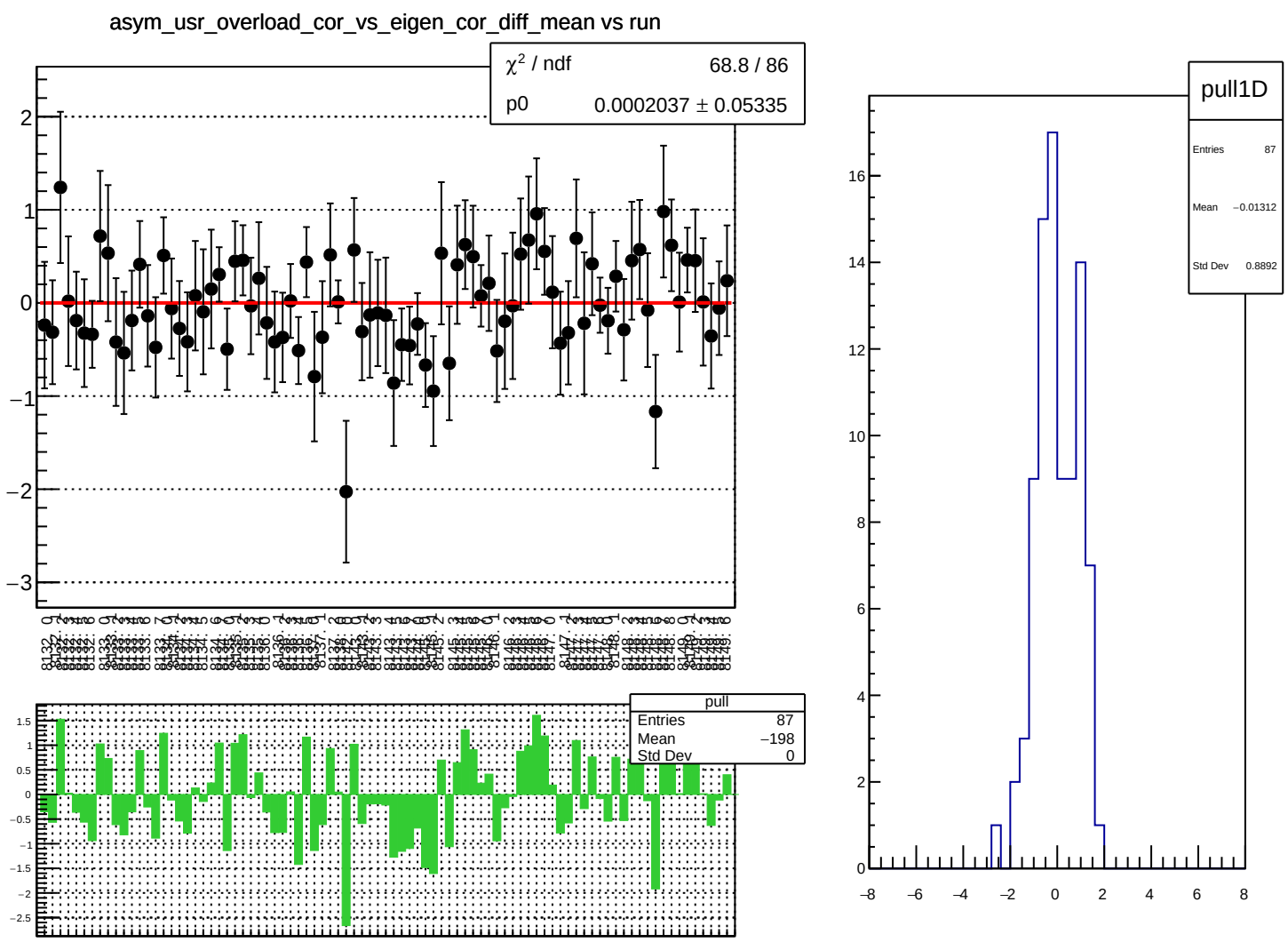

pull1D
Entries 87
Mean 0.04047
Std Dev 1.033

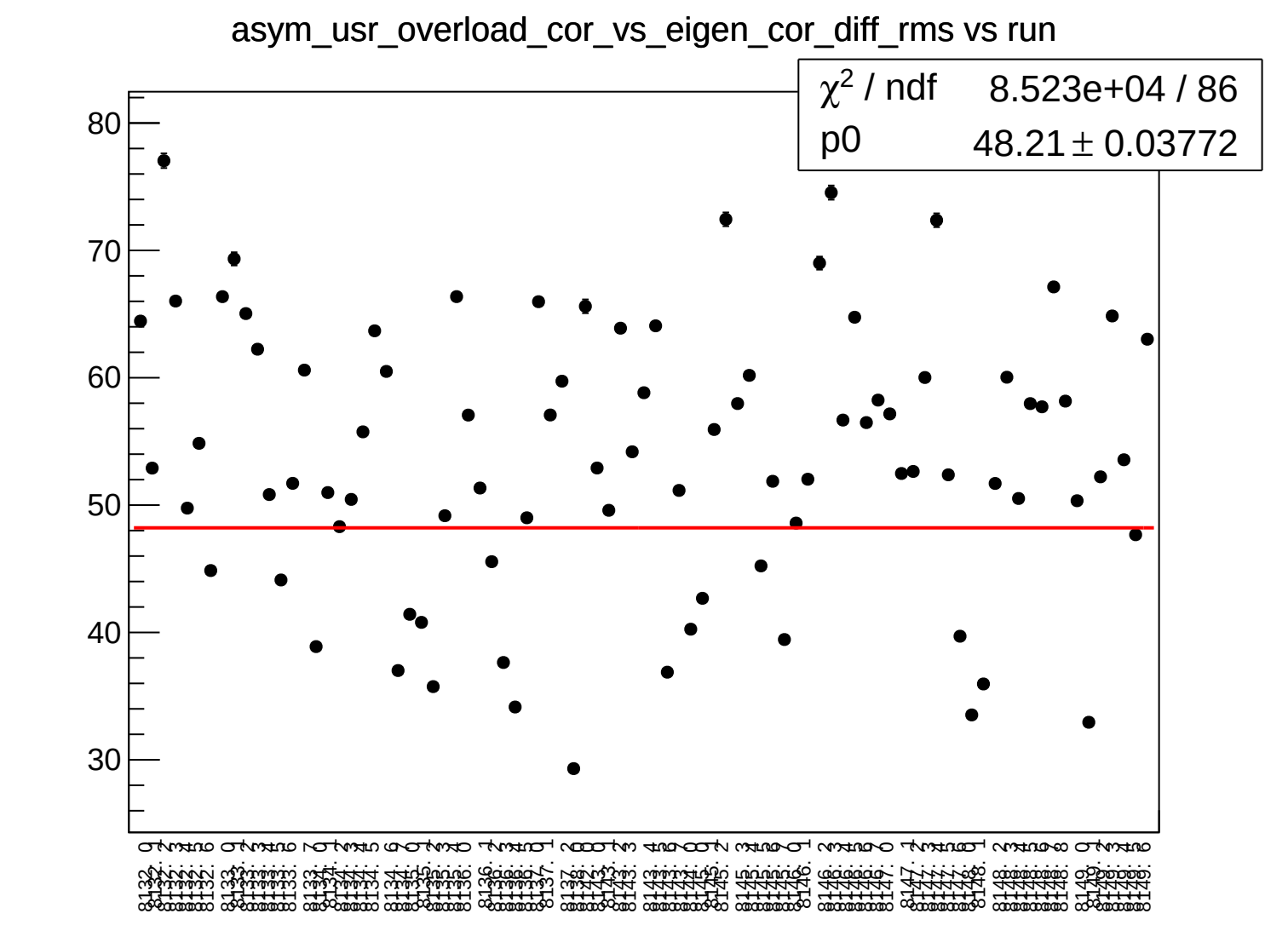

asym_usr_eigen_cor_vs_cor_diff_rms vs run
χ^2 / ndf 6.1e+05 / 86
p0 1.16e−10 ± 1.101e−13
$\times 10^{-9}$
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

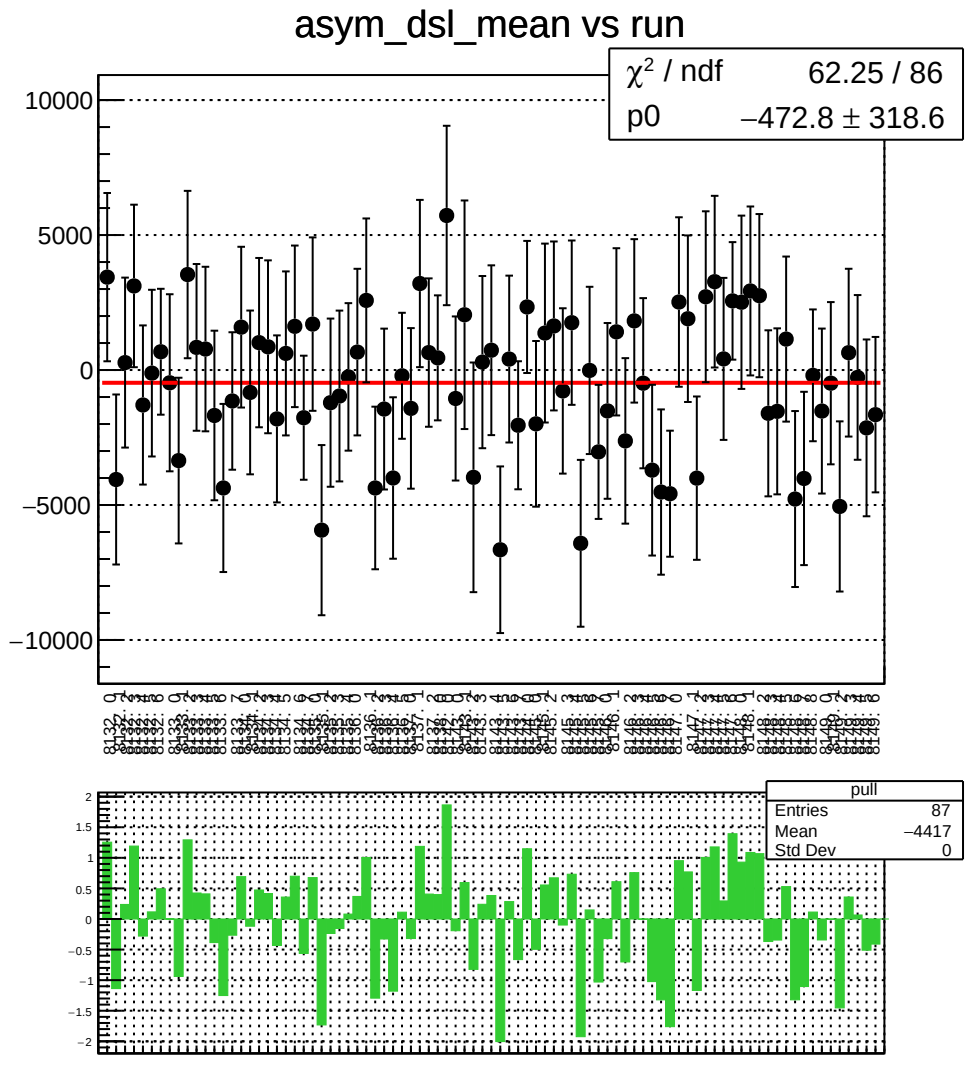

asym_usr_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 68.8 / 86
p0 0.0002037 ± 0.05335
pull
Entries 87
Mean −198
Std Dev 0

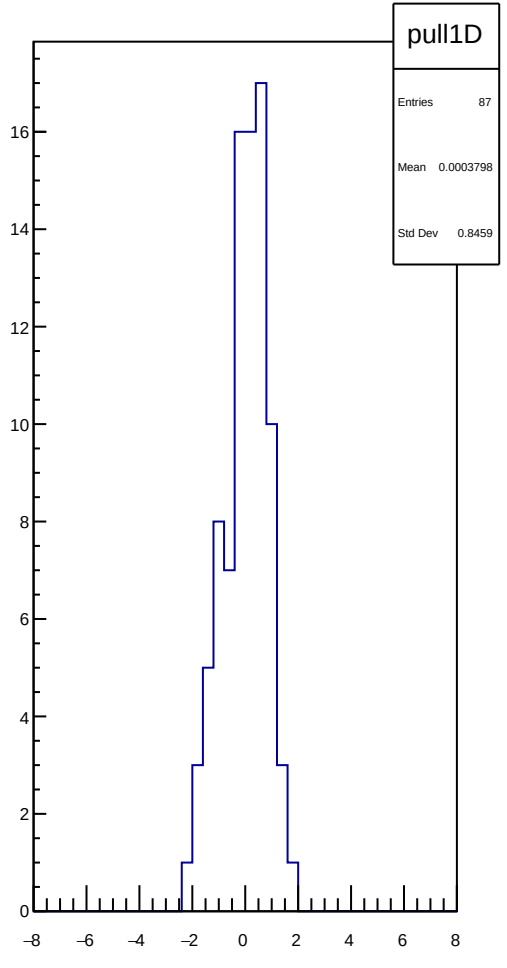

pull1D
Entries 87
Mean −0.01312
Std Dev 0.8892

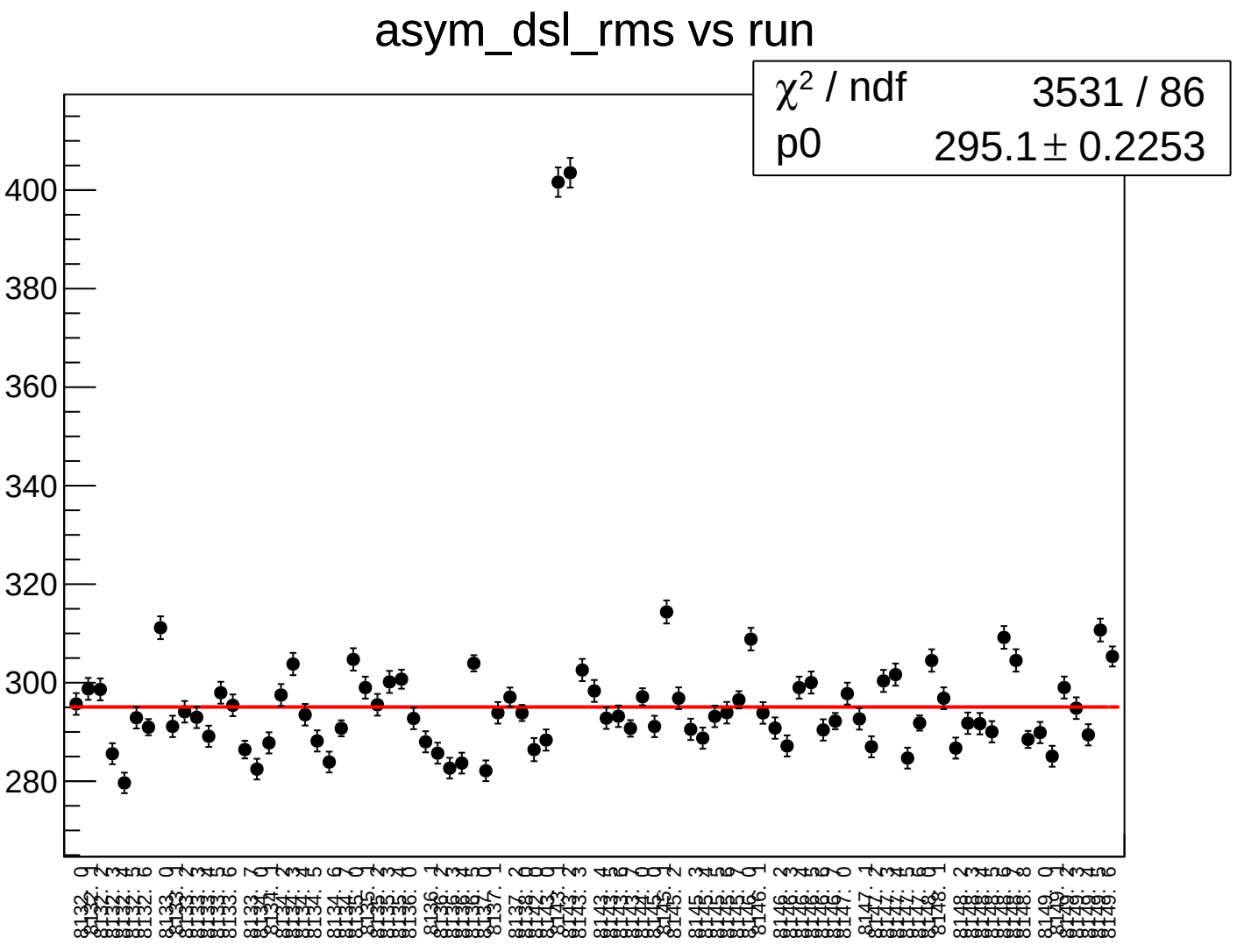

asym_usr_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 8.523e+04 / 86
p0 48.21 ± 0.03772
80
70
60
50
40
30

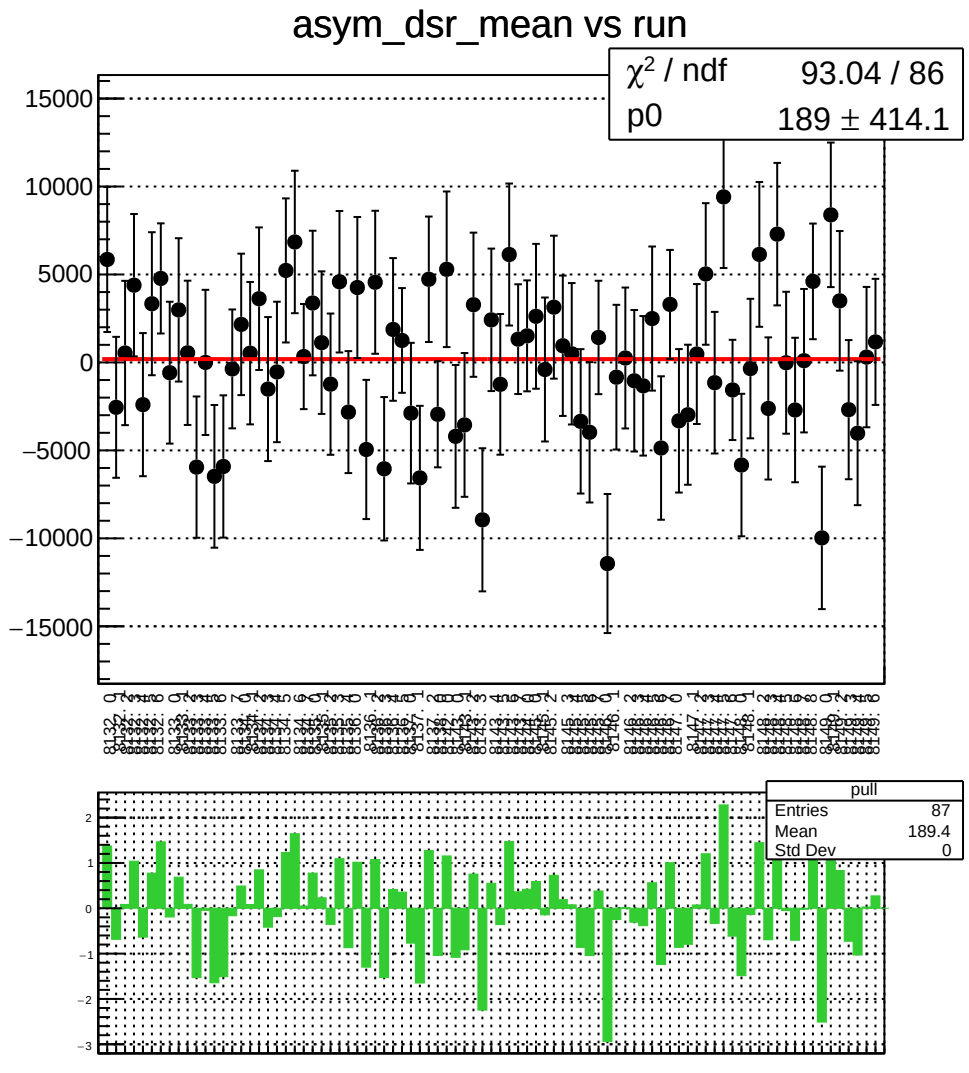

asym_usr_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.8 / 86
p0 0.0002037 ± 0.05335
pull
Entries 87
Mean −198
Std Dev 0
pull1D
Entries 87
Mean −0.01312
Std Dev 0.8892

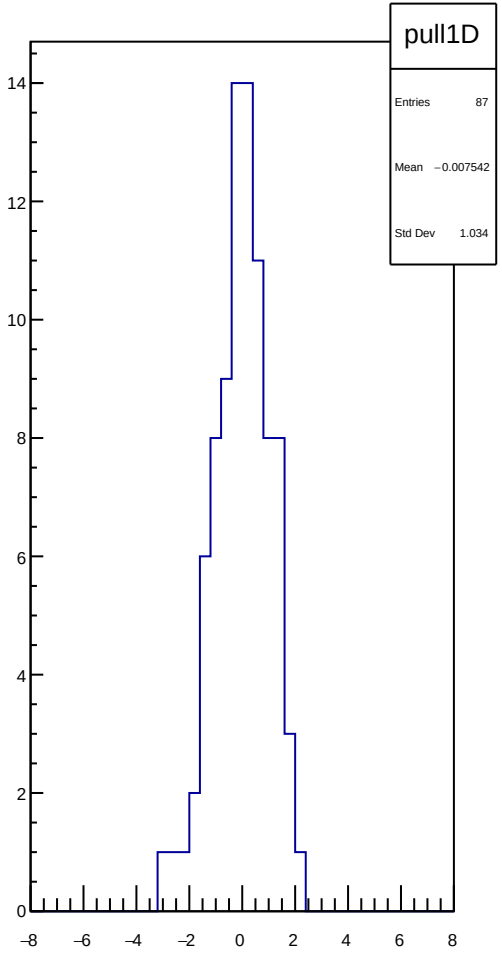

asym_usr_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.523e+04 / 86
p0 48.21 ± 0.03772
80
70
60
50
40
30

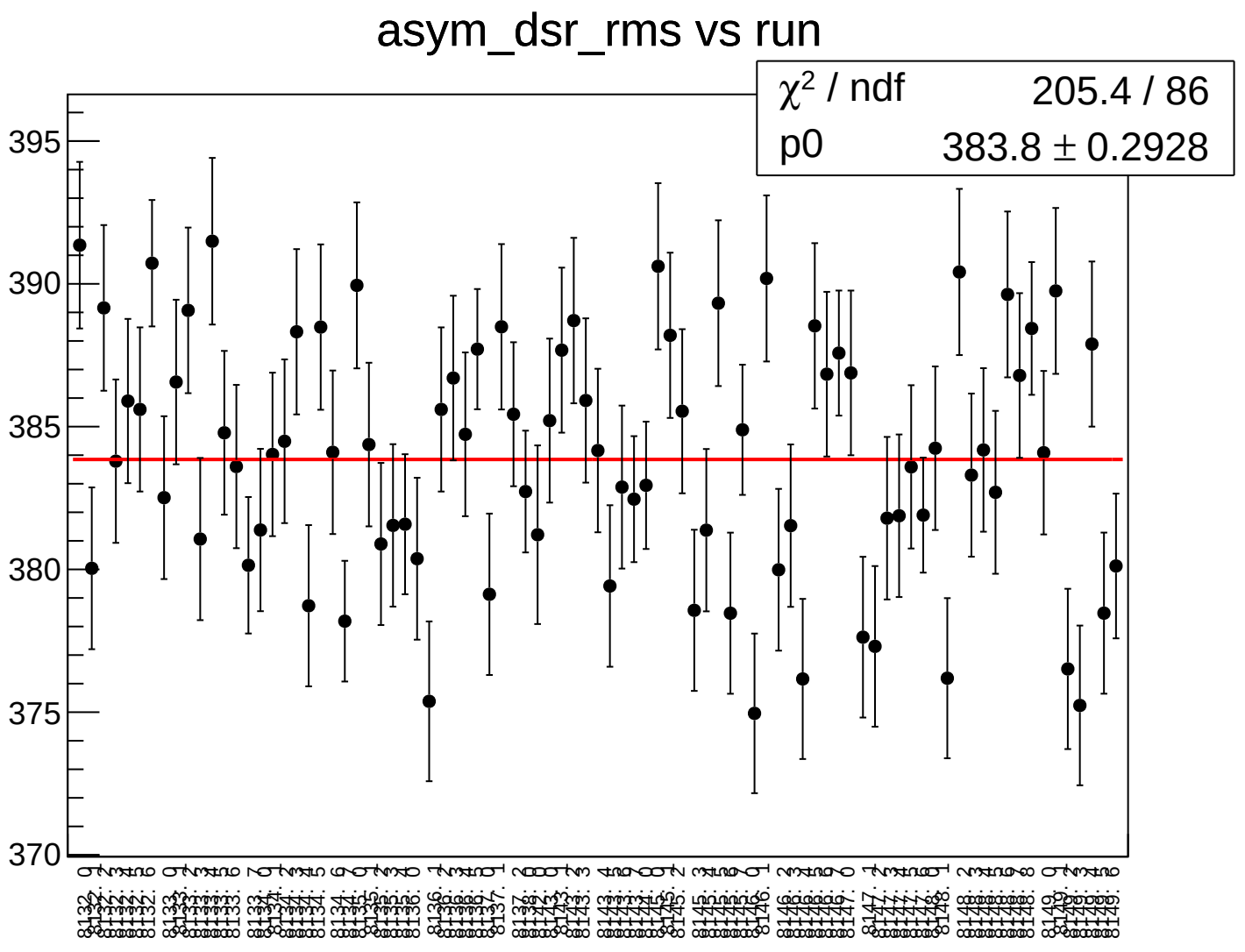

asym_dsl_mean vs run
χ² / ndf 62.25 / 86
p0 −472.8 ± 318.6
10000
5000
0
−5000
−10000
pull
Entries 87
Mean −4417
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

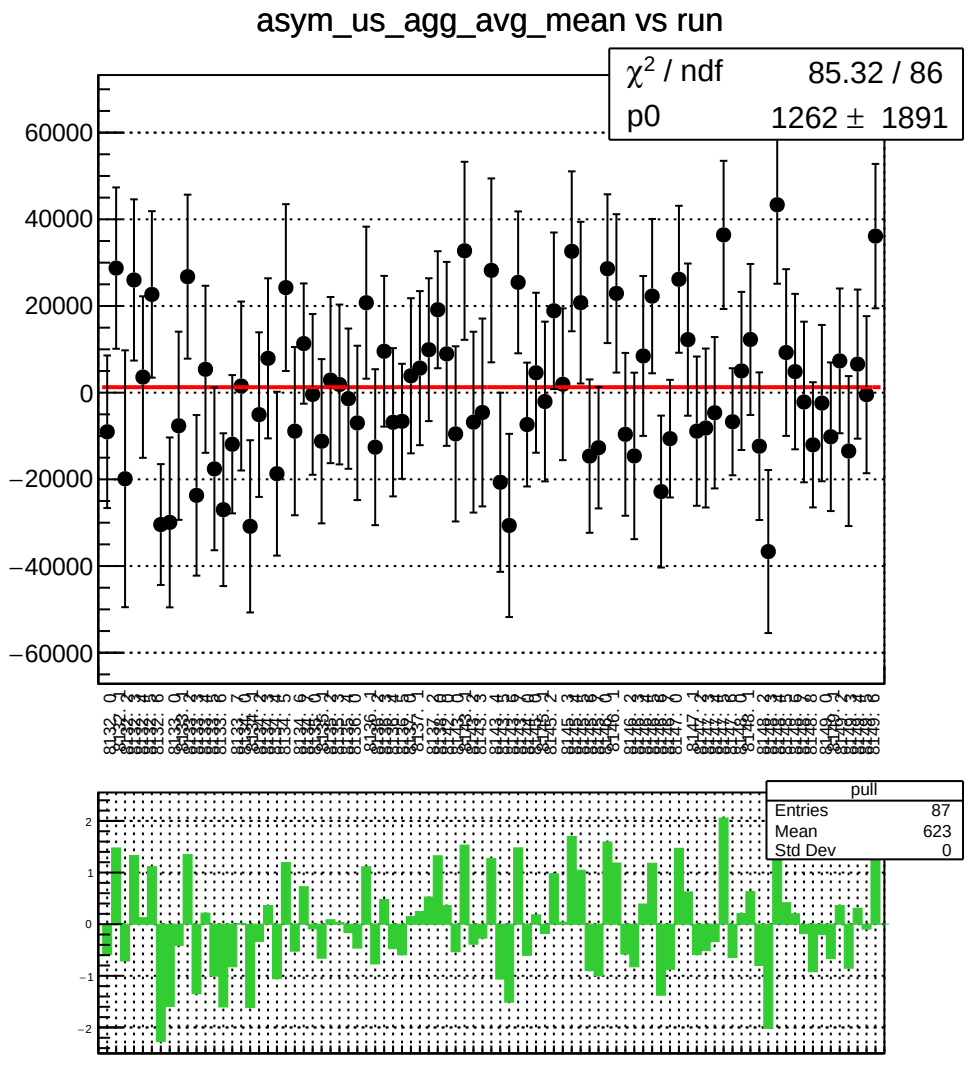

pull1D
Entries 87
Mean 0.0003798
Std Dev 0.8459
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

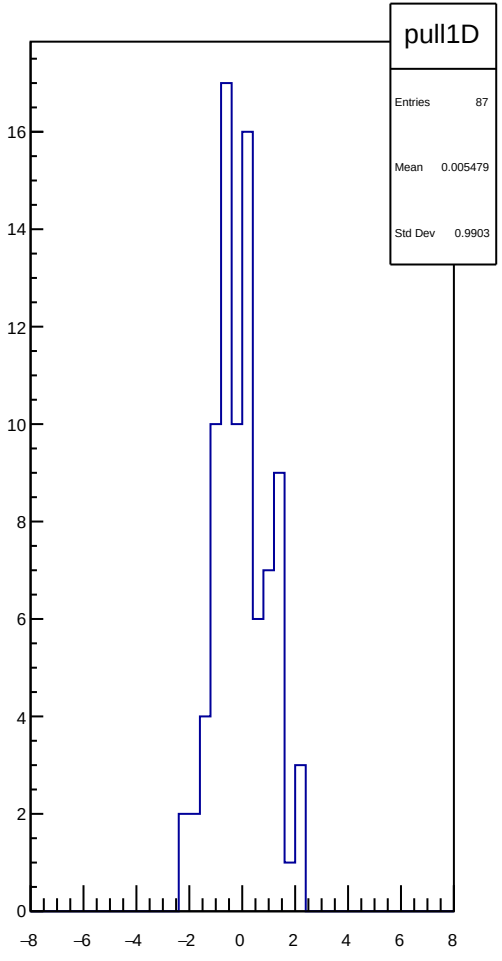

asym_dsl_rms vs run
χ² / ndf 3531 / 86
p0 295.1 ± 0.2253
400
380
360
340
320
300
280

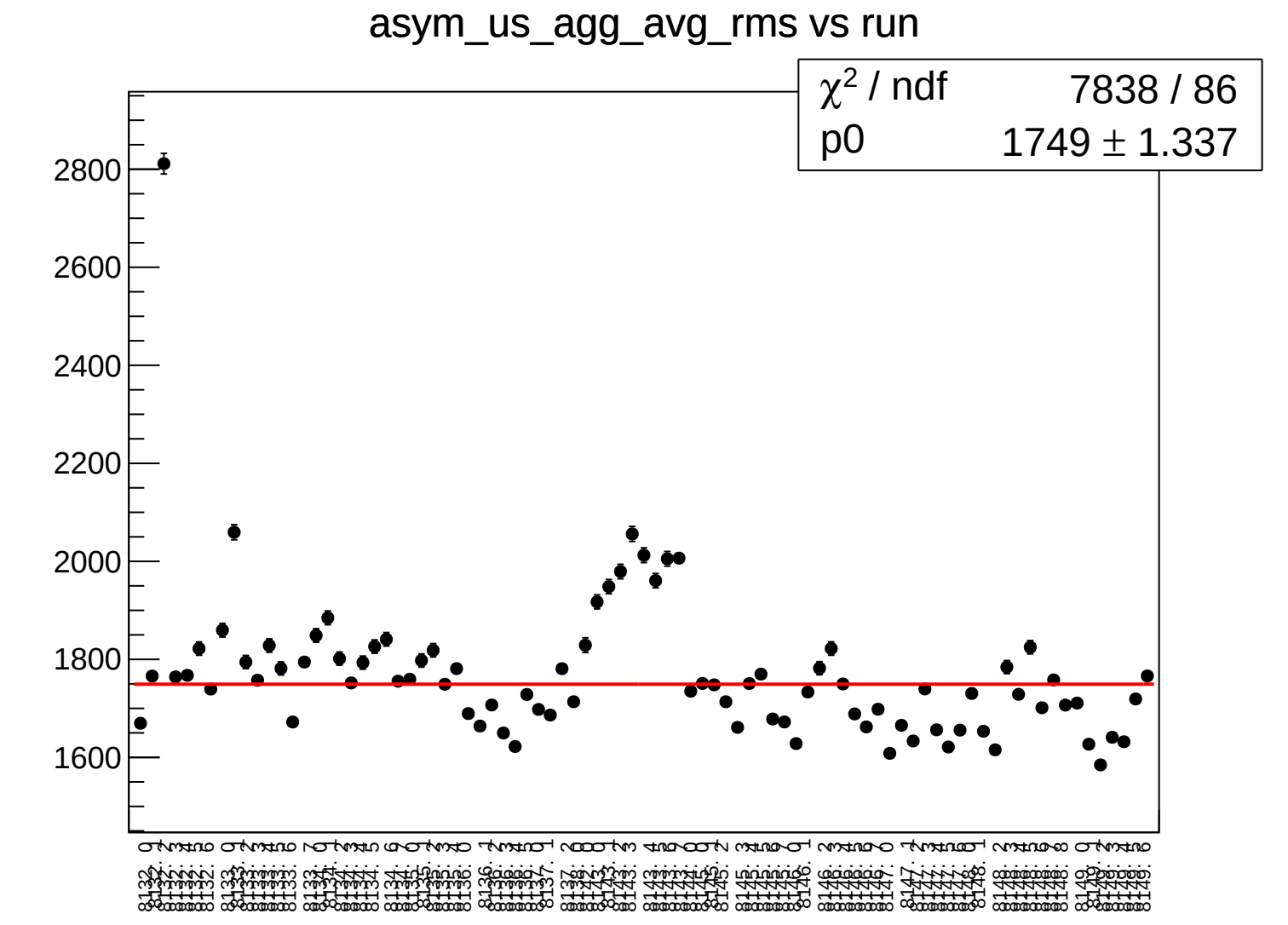

asym_dsr_mean vs run
χ² / ndf 93.04 / 86
p0 189 ± 414.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean 189.4
Std Dev 0
2
1
0
−1
−2
−3

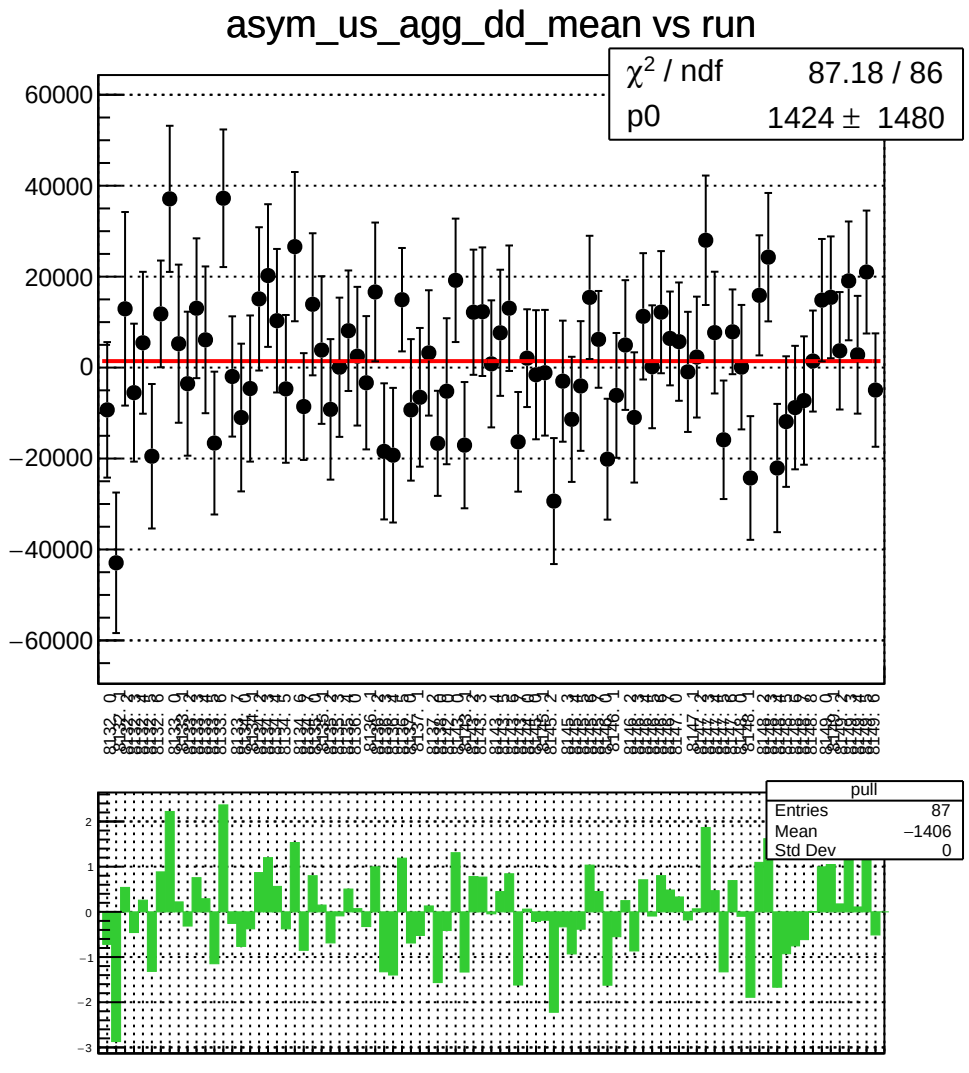

pull1D
Entries 87
Mean −0.007542
Std Dev 1.034
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

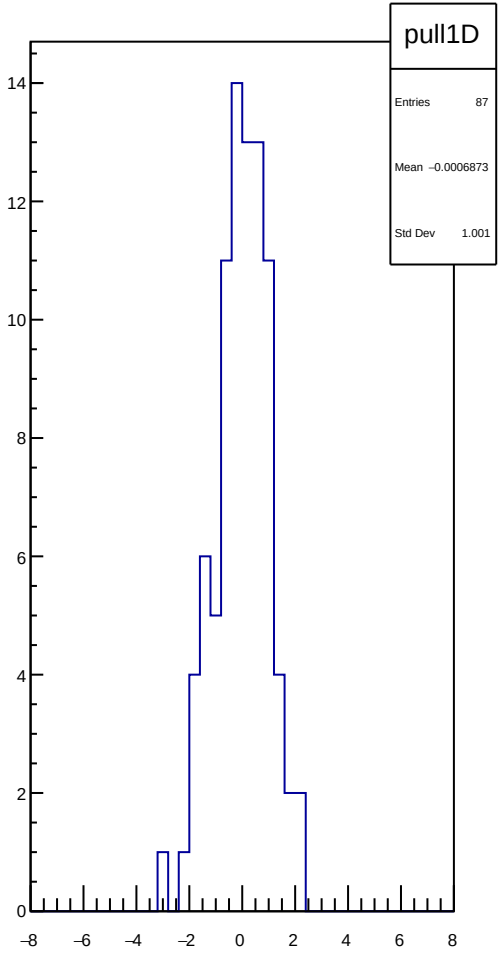

asym_dsr_rms vs run
χ² / ndf 205.4 / 86
p0 383.8 ± 0.2928
395
390
385
380
375
370


asym_us_agg_avg_mean vs run
χ² / ndf 85.32 / 86
p0 1262 ± 1891
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 623
Std Dev 0
2
1
0
−1
−2

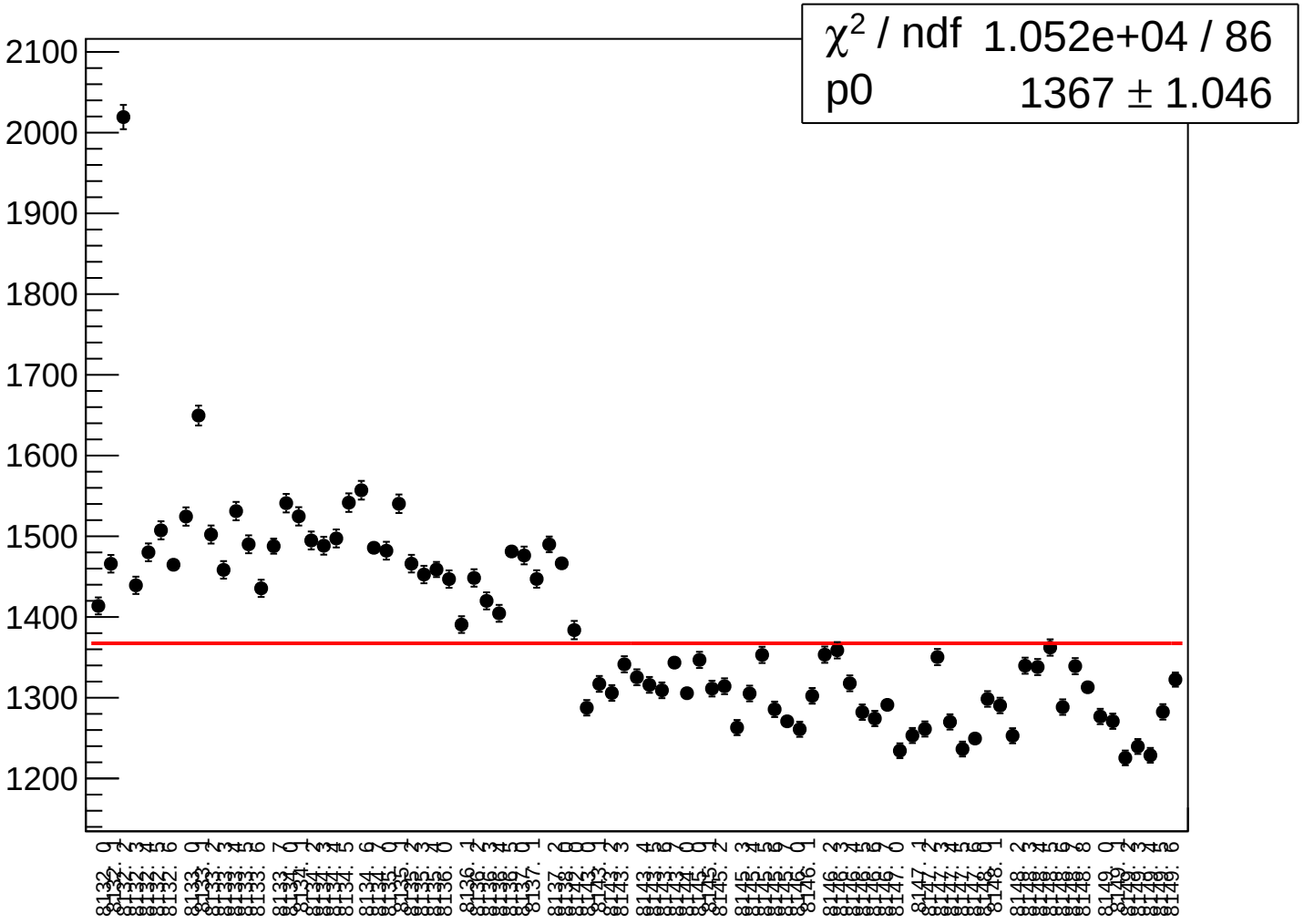

pull1D
Entries 87
Mean 0.005479
Std Dev 0.9903
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

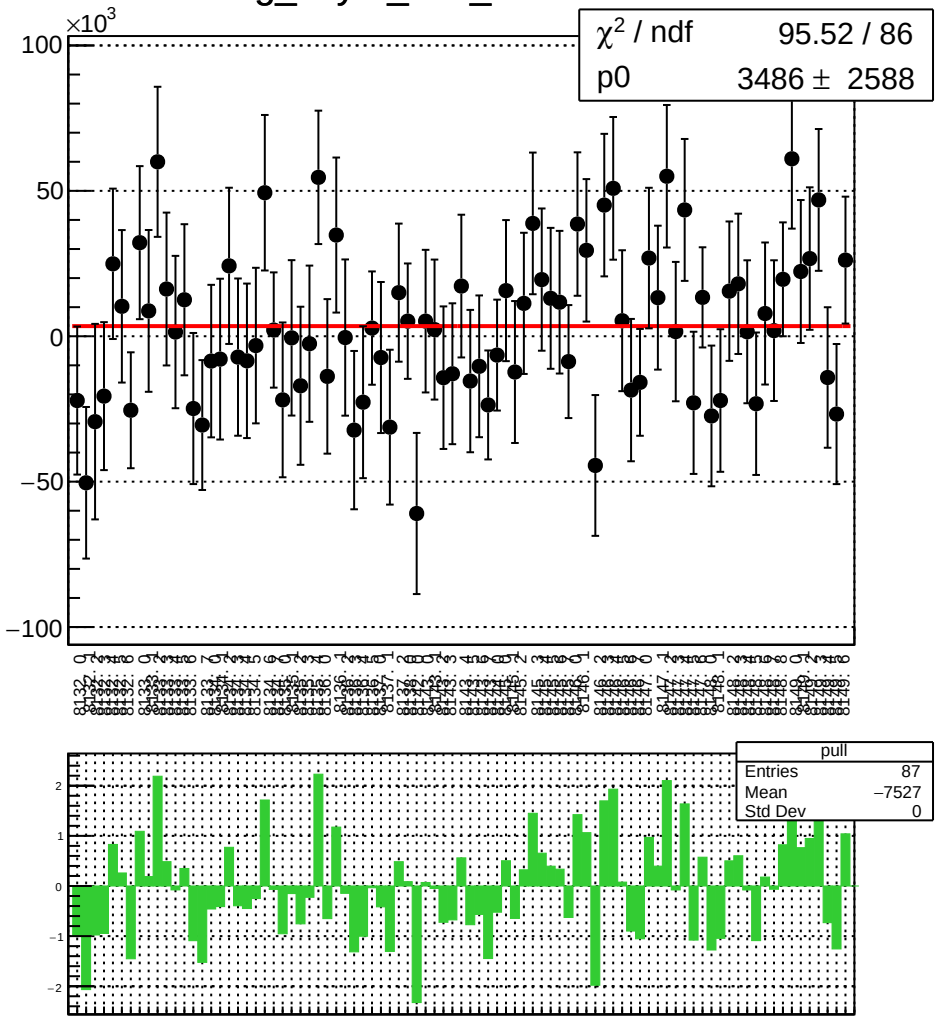

asym_us_agg_avg_rms vs run
χ^2 / ndf 7838 / 86
p0 1749 ± 1.337
2800
2600
2400
2200
2000
1800
1600

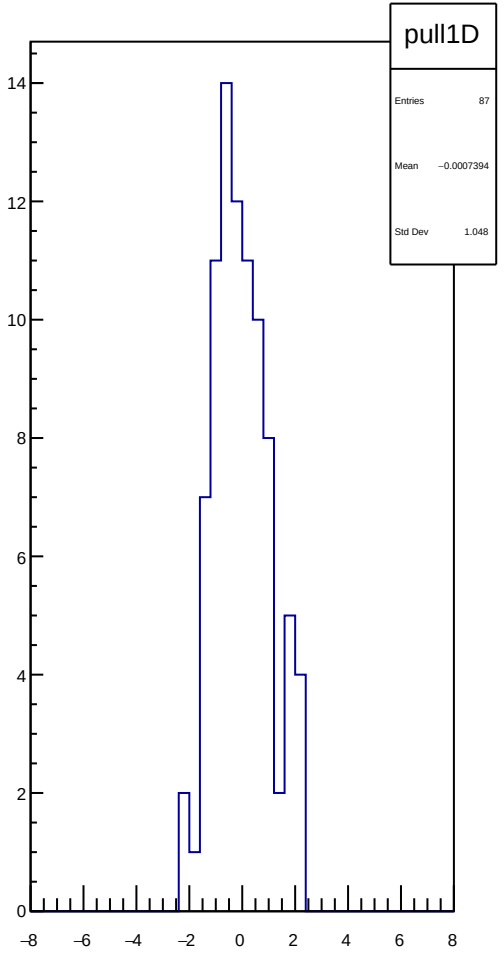

asym_us_agg_dd_mean vs run
χ² / ndf 87.18 / 86
p0 1424 ± 1480
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −1406
Std Dev 0
2
1
0
−1
−2
−3

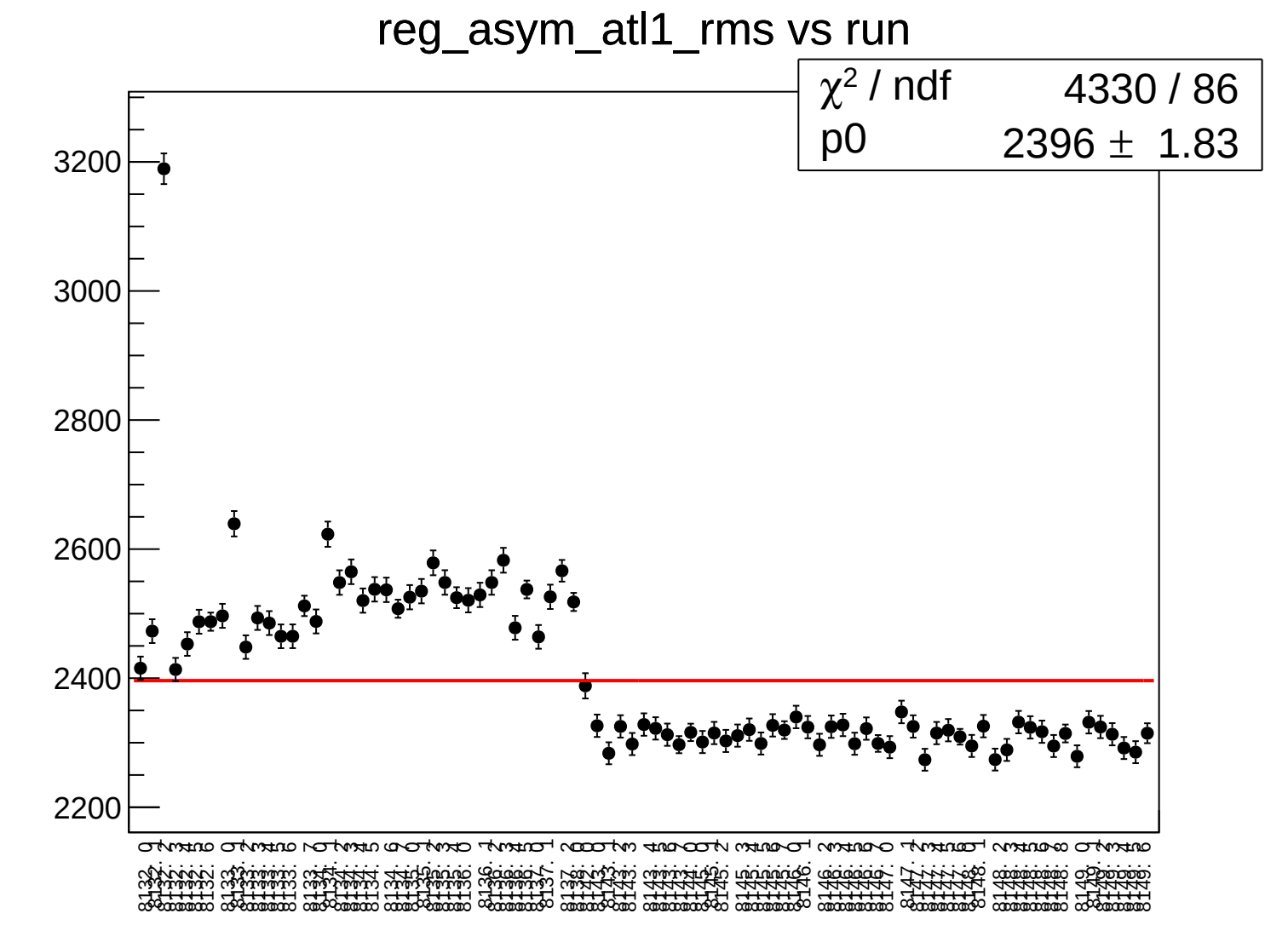

pull1D
Entries 87
Mean −0.0006873
Std Dev 1.001
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

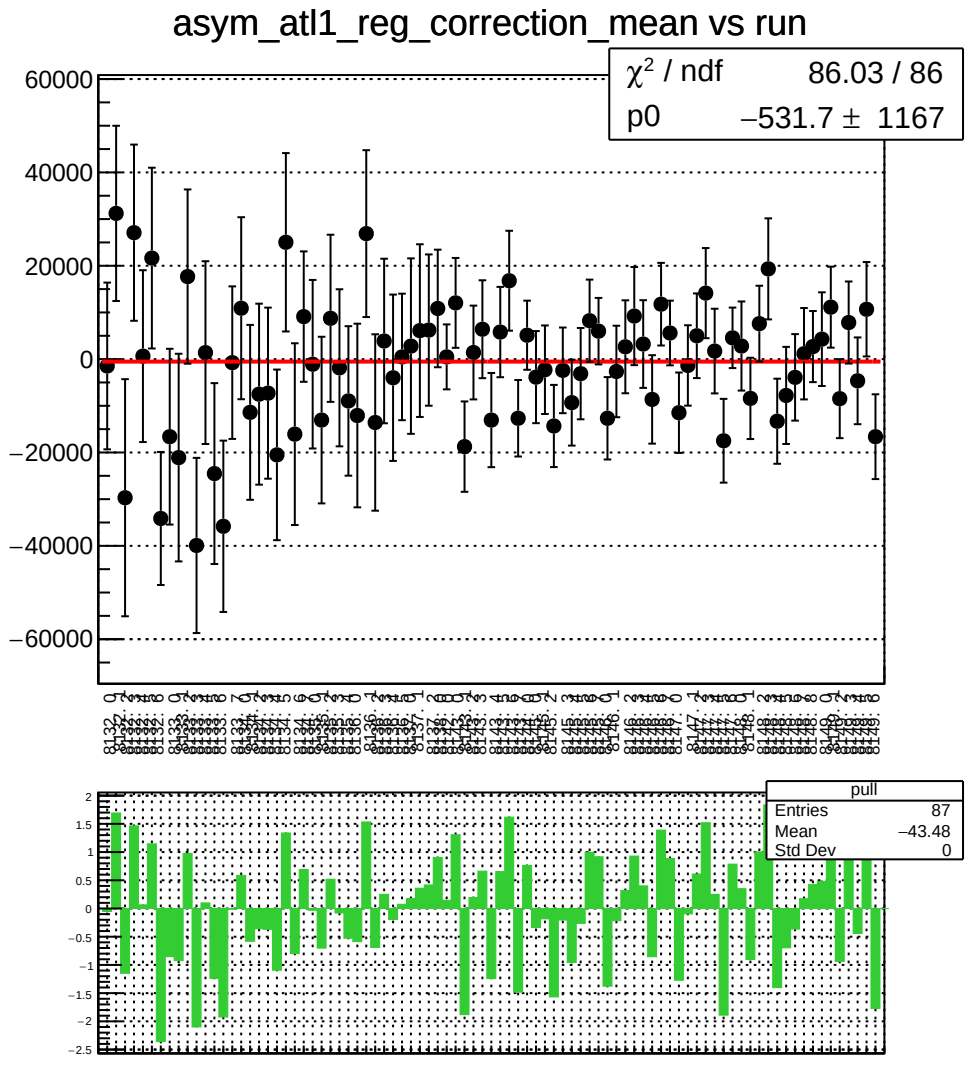
asym_us_agg_dd_rms vs run

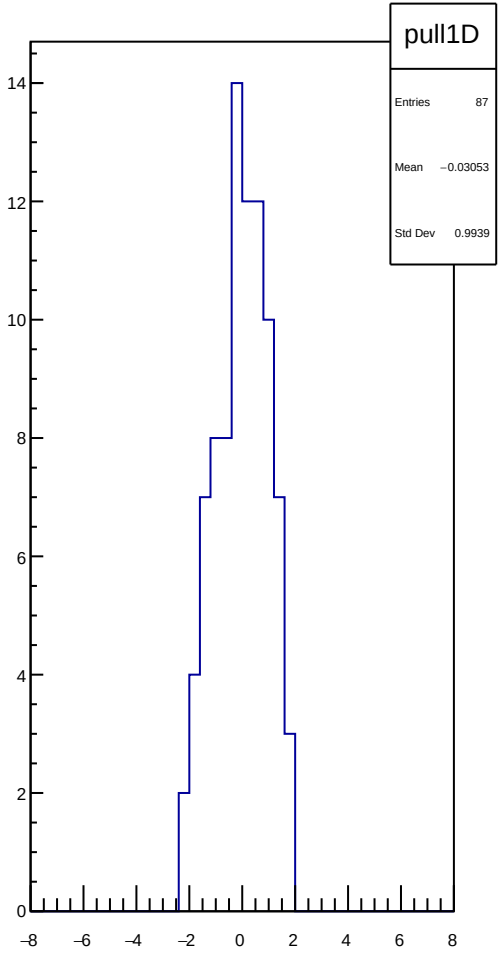


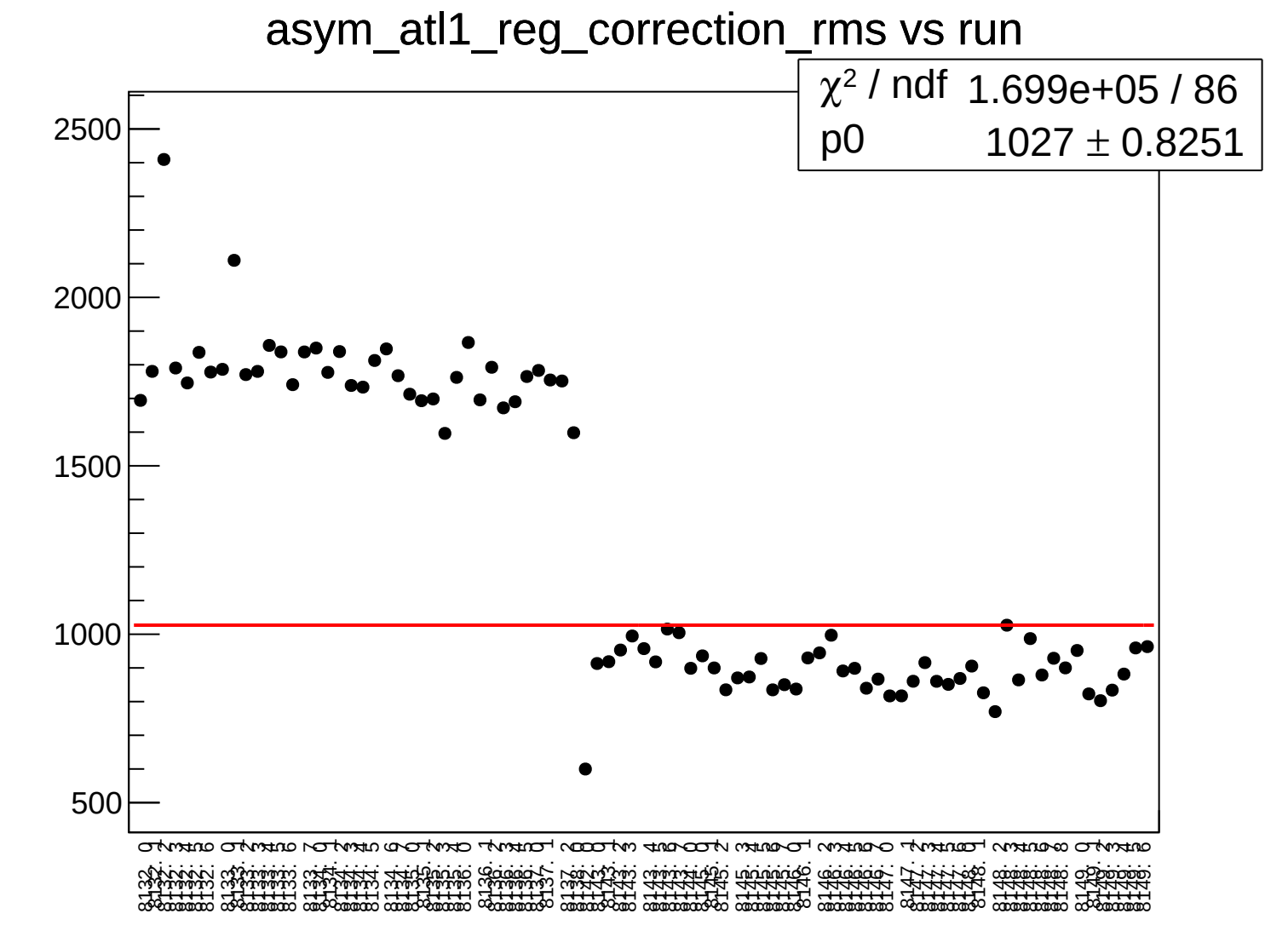

reg_asym_atl1_mean vs run
×10^3
χ² / ndf 95.52 / 86
p0 3486 ± 2588
pull
Entries 87
Mean −7527
Std Dev 0

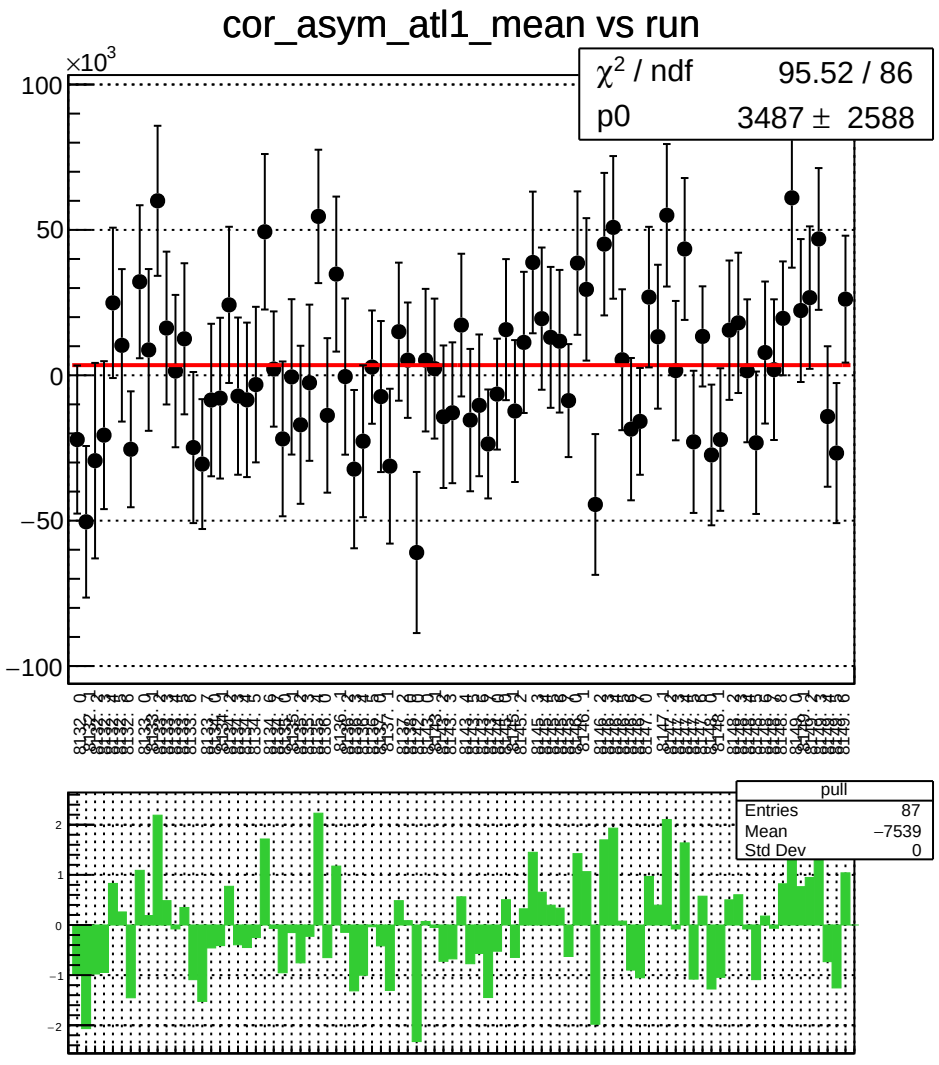

pull1D
Entries 87
Mean −0.0007394
Std Dev 1.048

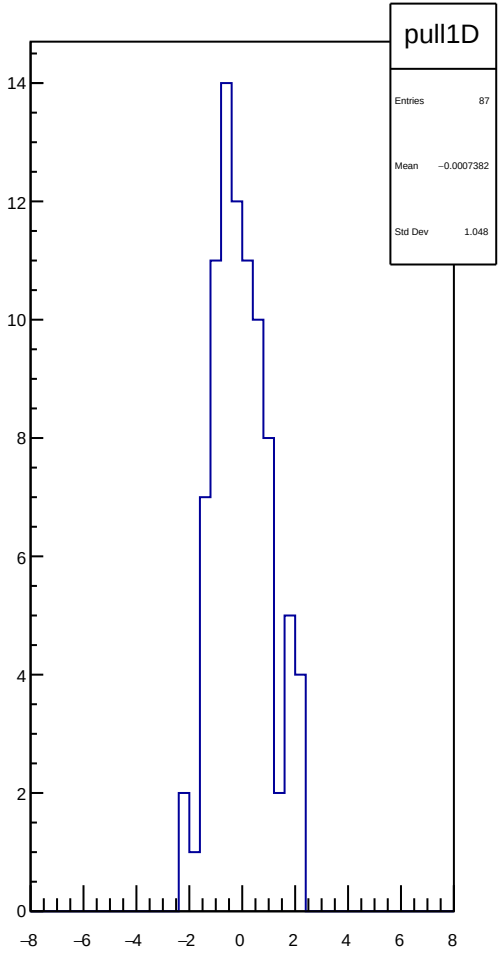

reg_asym_atl1_rms vs run
χ² / ndf 4330 / 86
p0 2396 ± 1.83
3200
3000
2800
2600
2400
2200

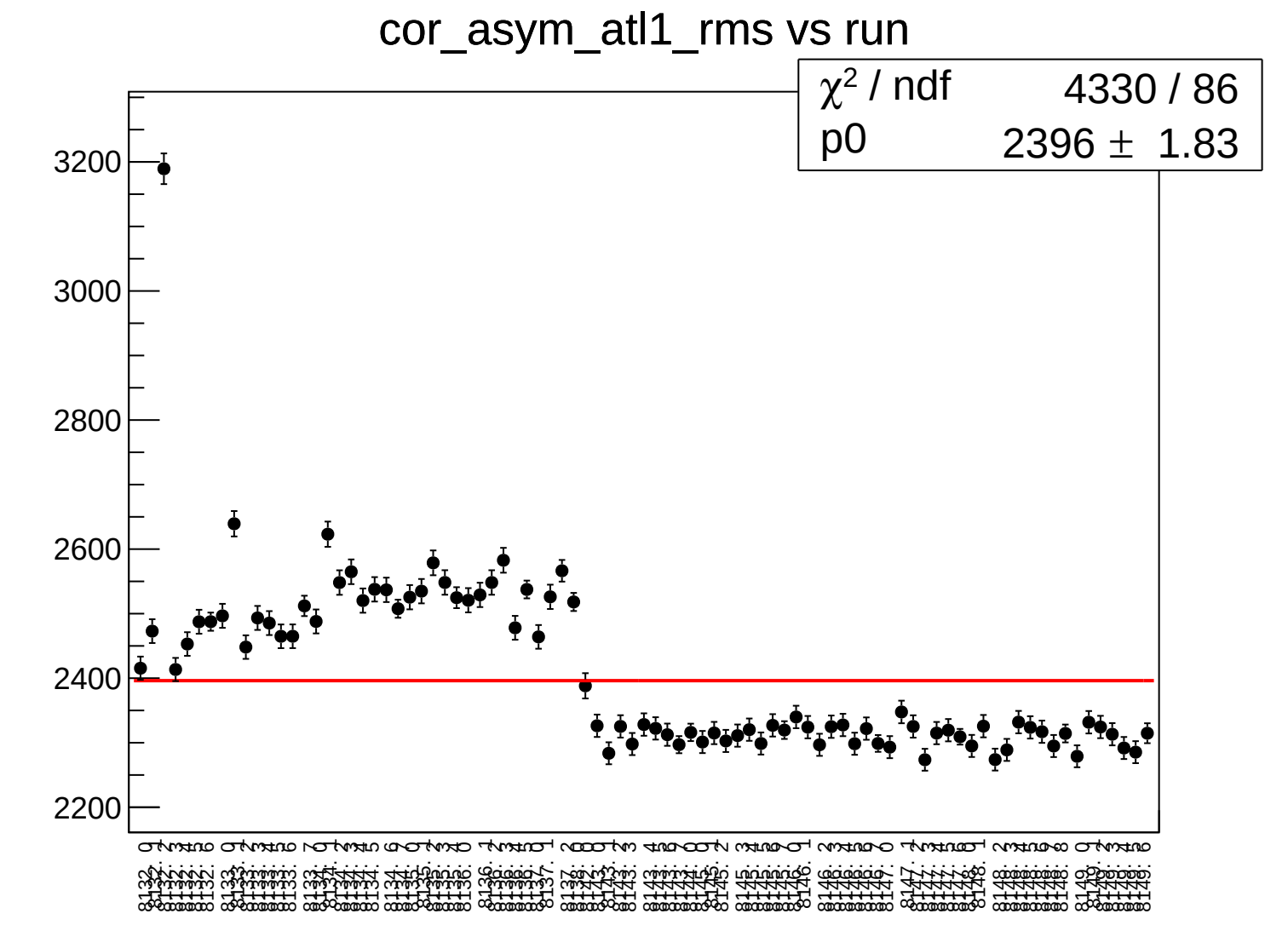

asym_atl1_reg_correction_mean vs run
χ² / ndf 86.03 / 86
p0 −531.7 ± 1167
pull
Entries 87
Mean −43.48
Std Dev 0

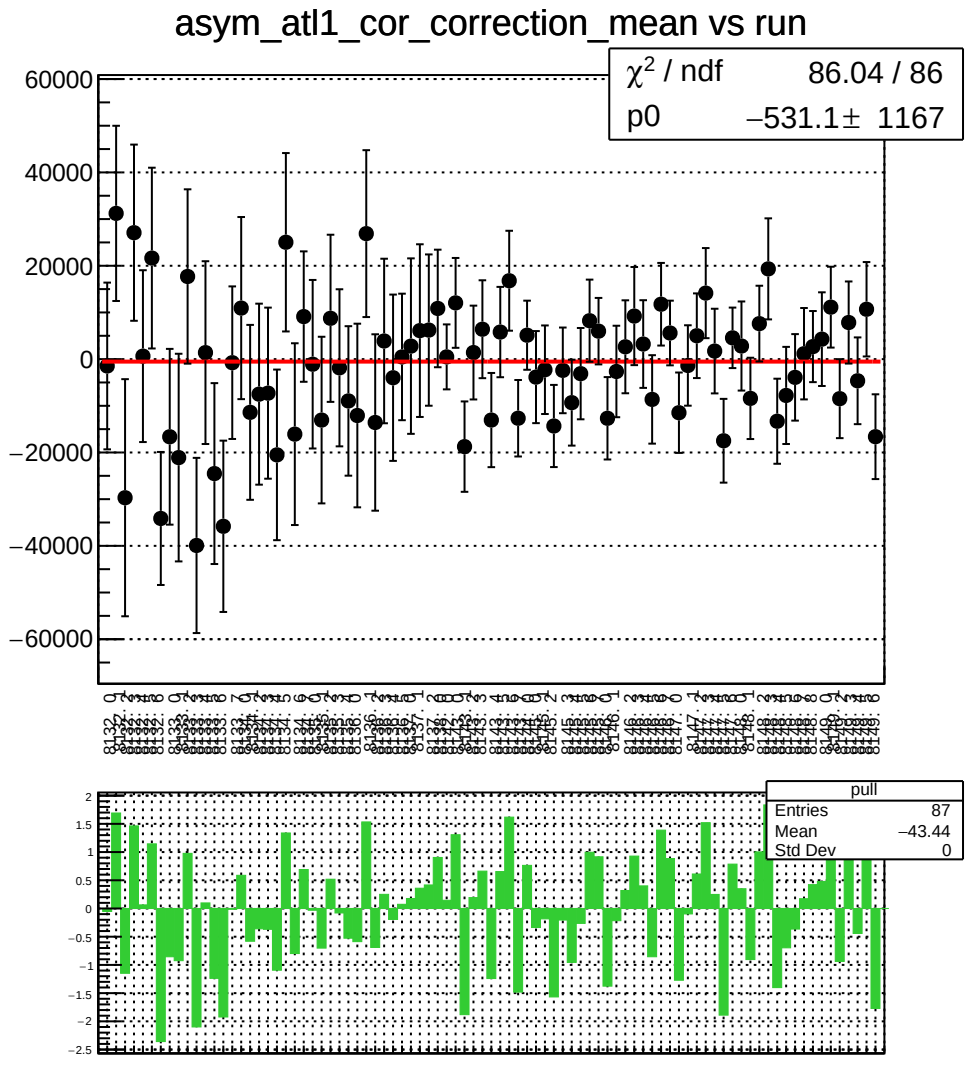

pull1D
Entries 87
Mean −0.03053
Std Dev 0.9939

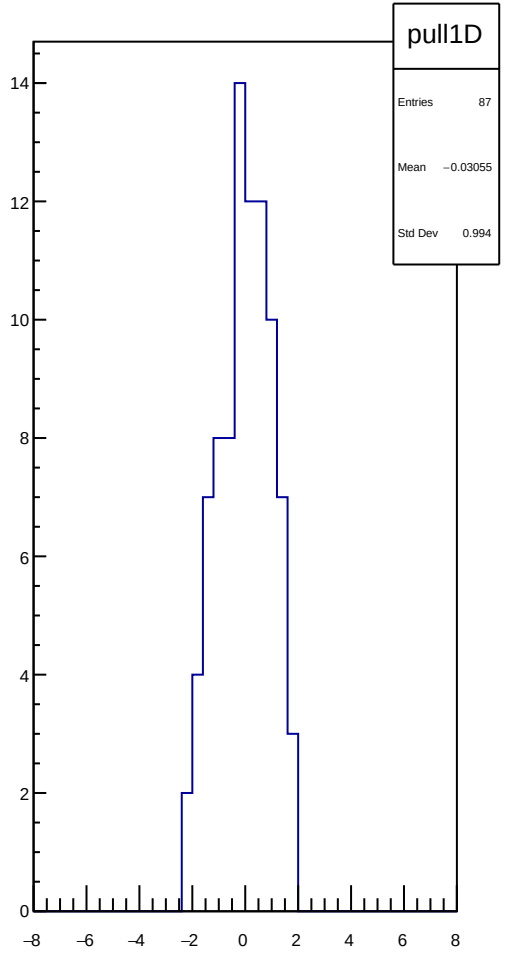

asym_atl1_reg_correction_rms vs run
χ² / ndf 1.699e+05 / 86
p0 1027 ± 0.8251
2500
2000
1500
1000
500

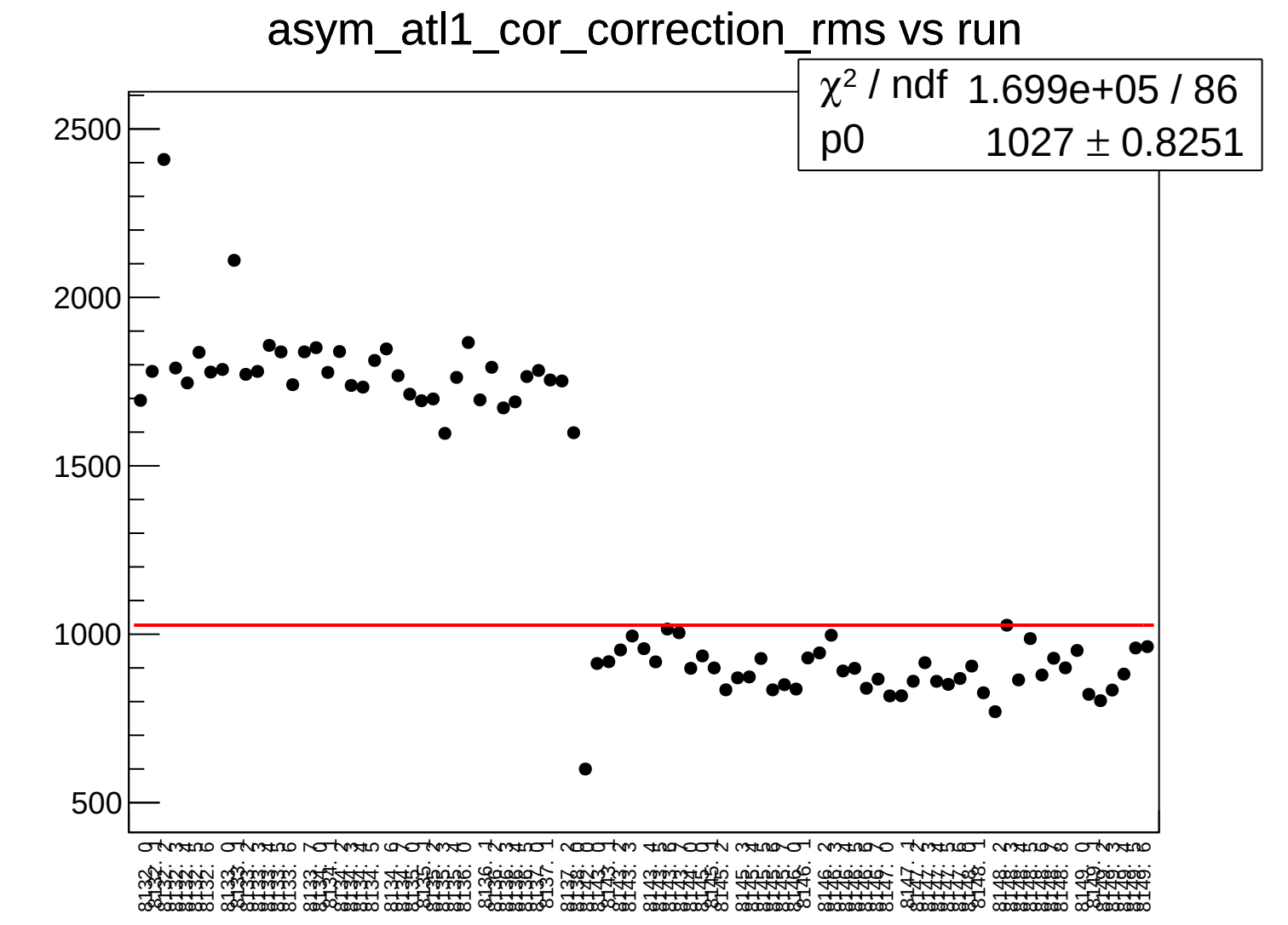

cor_asym_atl1_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 95.52 / 86
p0 3487 ± 2588
pull
Entries 87
Mean −7539
Std Dev 0
2
1
0
−1
−2

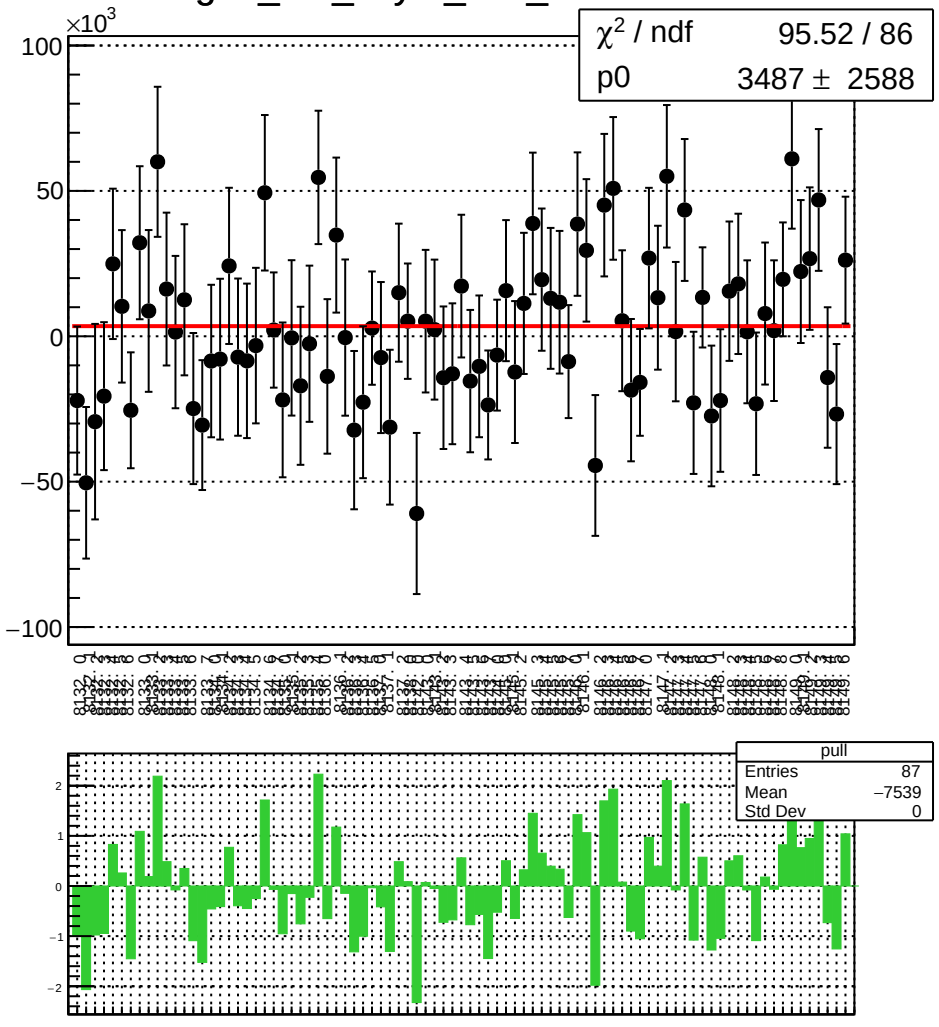

pull1D
Entries 87
Mean −0.0007382
Std Dev 1.048
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

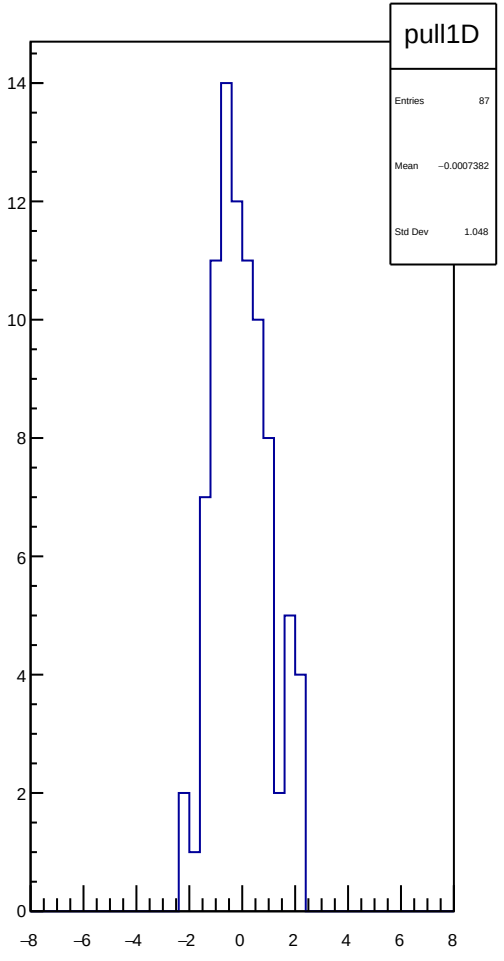

cor_asym_atl1_rms vs run
χ² / ndf 4330 / 86
p0 2396 ± 1.83
3200
3000
2800
2600
2400
2200

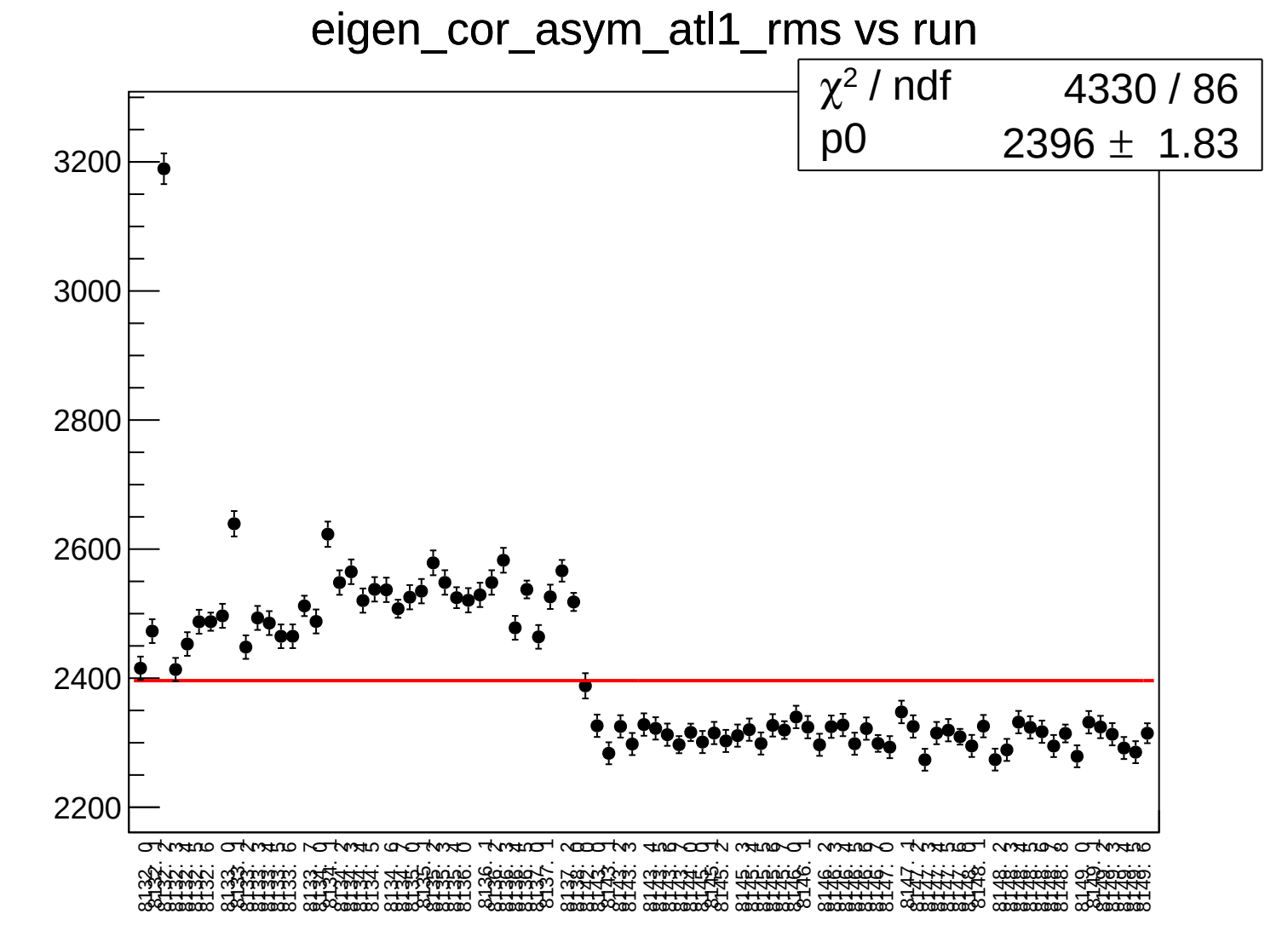

asym_atl1_cor_correction_mean vs run
χ² / ndf 86.04 / 86
p0 −531.1± 1167
pull
Entries 87
Mean −43.44
Std Dev 0

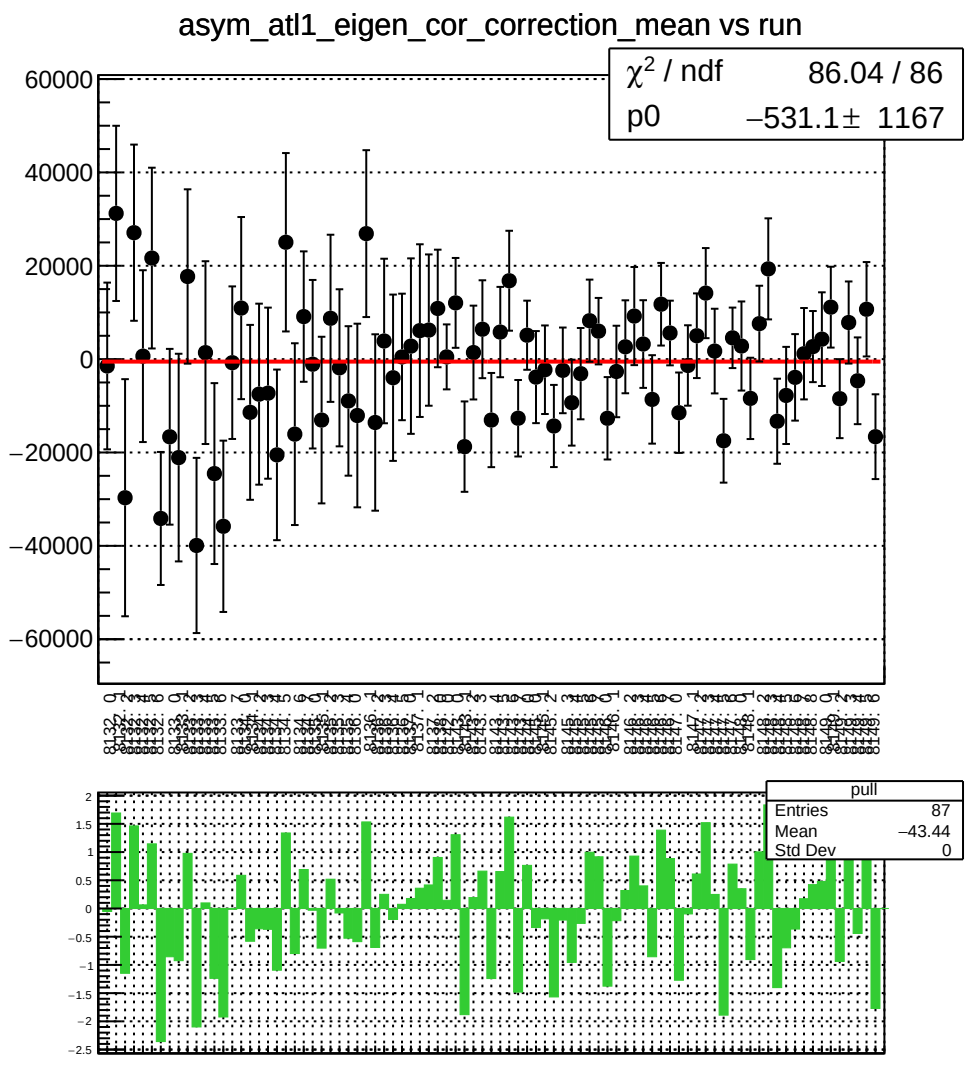

pull1D
Entries 87
Mean −0.03055
Std Dev 0.994

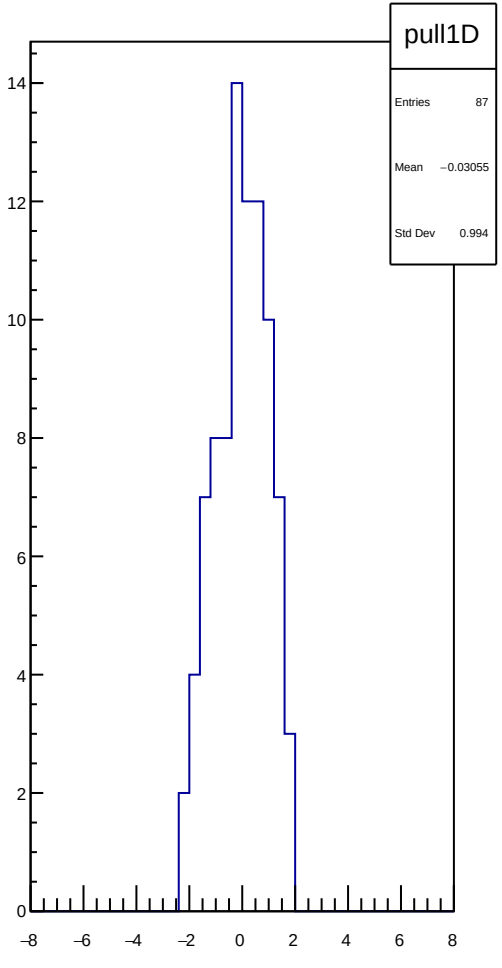

asym_atl1_cor_correction_rms vs run
χ² / ndf 1.699e+05 / 86
p0 1027 ± 0.8251
2500
2000
1500
1000
500

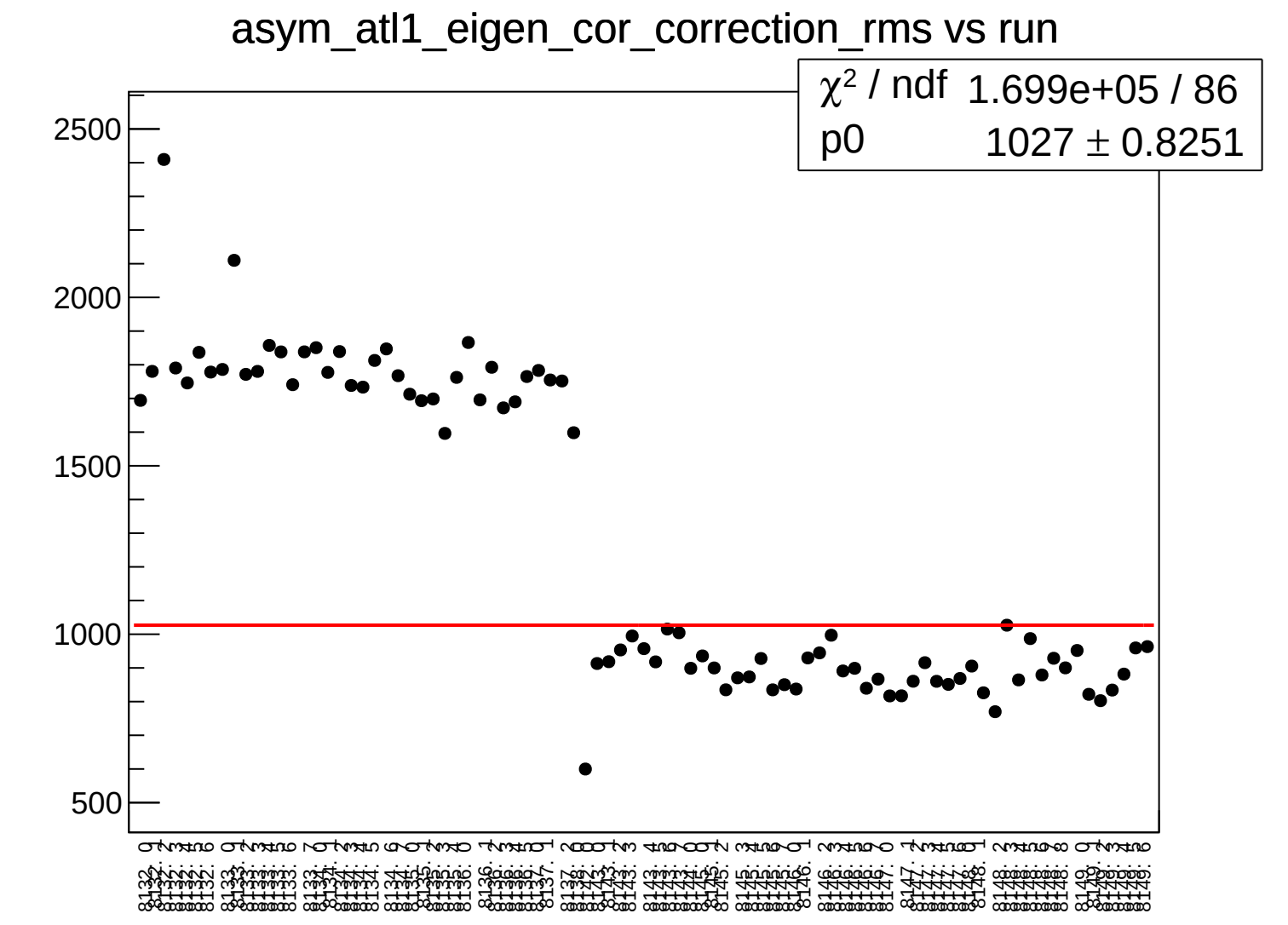

eigen_cor_asym_atl1_mean vs run
χ² / ndf 95.52 / 86
p0 3487 ± 2588
pull
Entries 87
Mean −7539
Std Dev 0

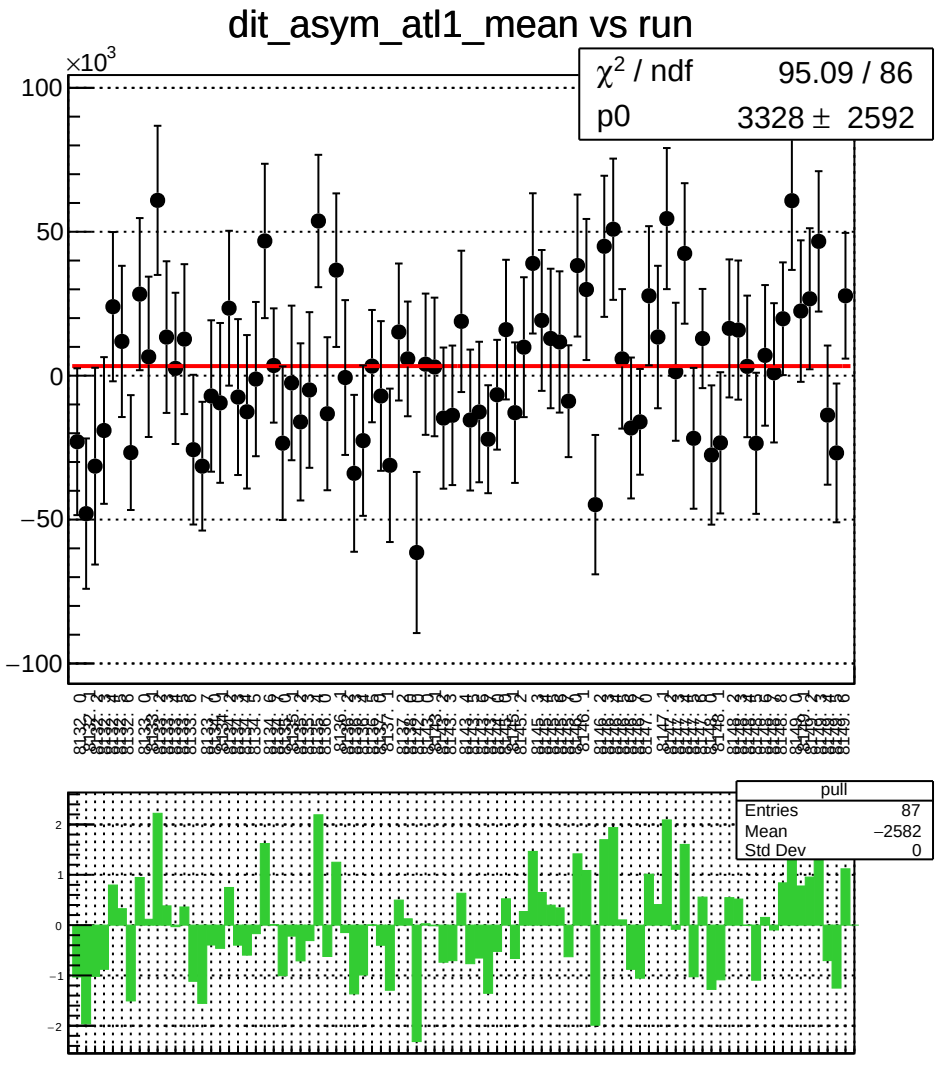

pull1D
Entries 87
Mean −0.0007382
Std Dev 1.048

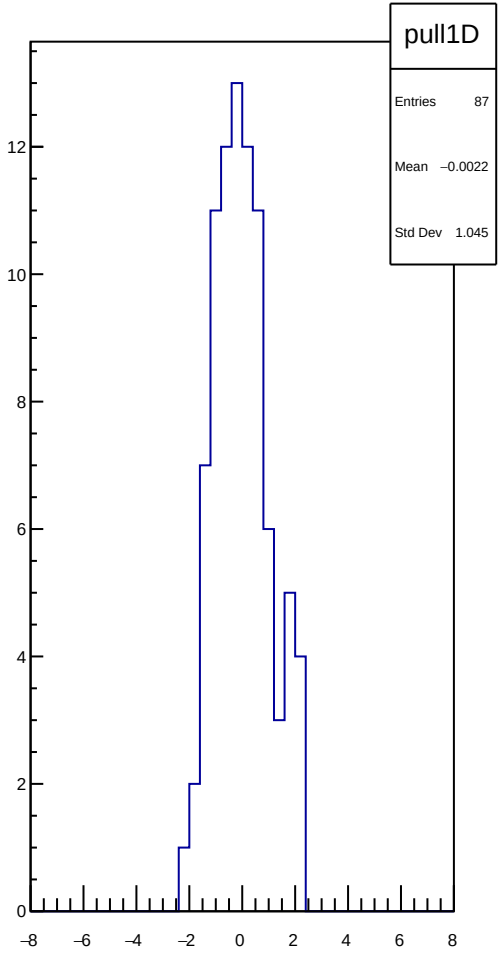

eigen_cor_asym_atl1_rms vs run
χ² / ndf 4330 / 86
p0 2396 ± 1.83
3200
3000
2800
2600
2400
2200

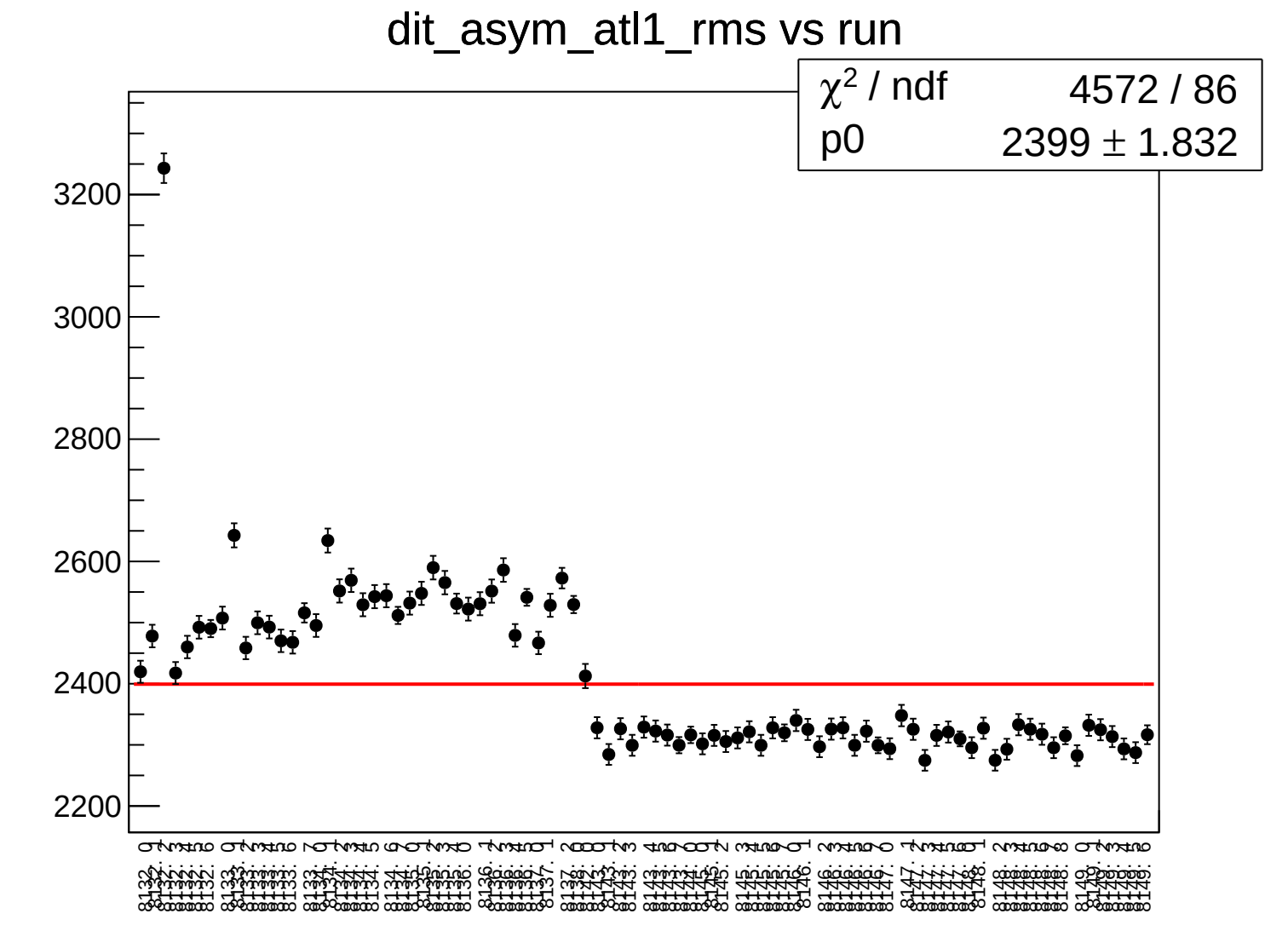

asym_atl1_eigen_cor_correction_mean vs run
χ^2 / ndf 86.04 / 86
p0 −531.1± 1167
pull
Entries 87
Mean −43.44
Std Dev 0

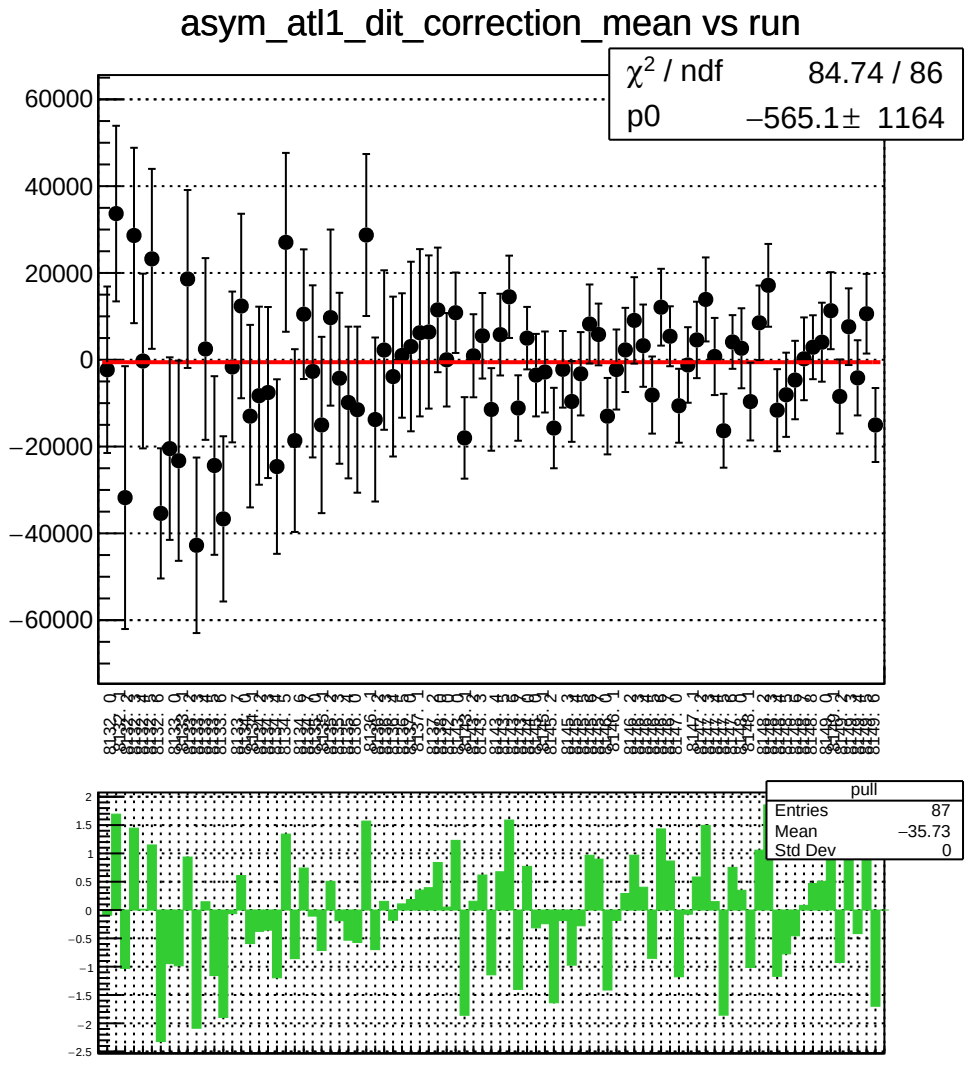

pull1D
Entries 87
Mean −0.03055
Std Dev 0.994

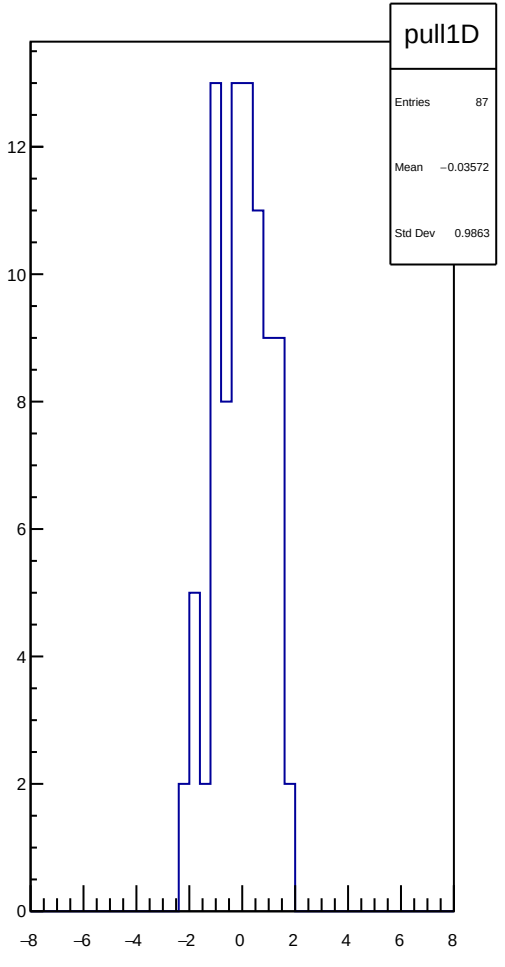

asym_atl1_eigen_cor_correction_rms vs run
χ² / ndf 1.699e+05 / 86
p0 1027 ± 0.8251
2500
2000
1500
1000
500

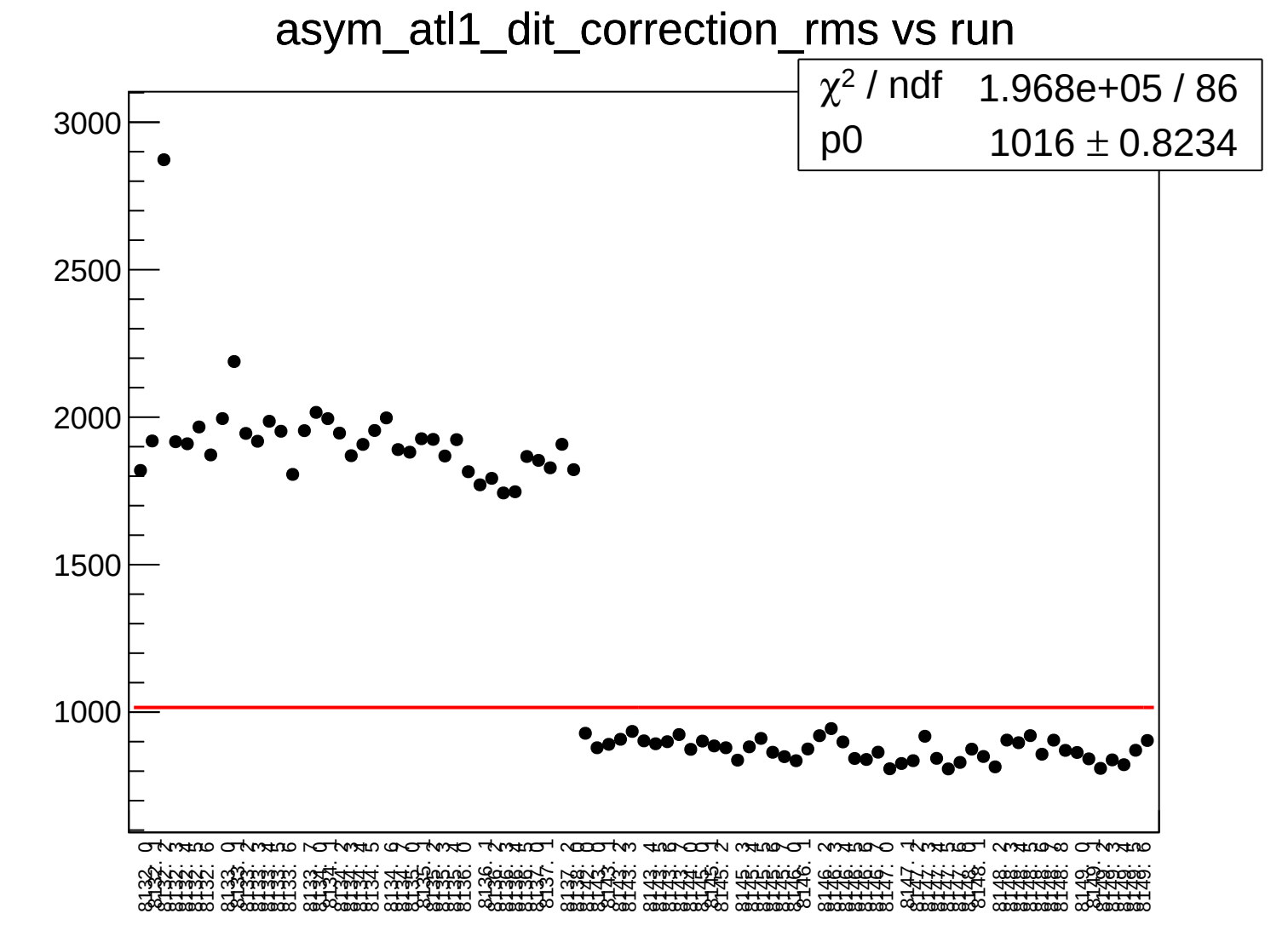

dit_asym_atl1_mean vs run
×10^3
χ^2 / ndf 95.09 / 86
p0 3328 ± 2592
pull
Entries 87
Mean −2582
Std Dev 0

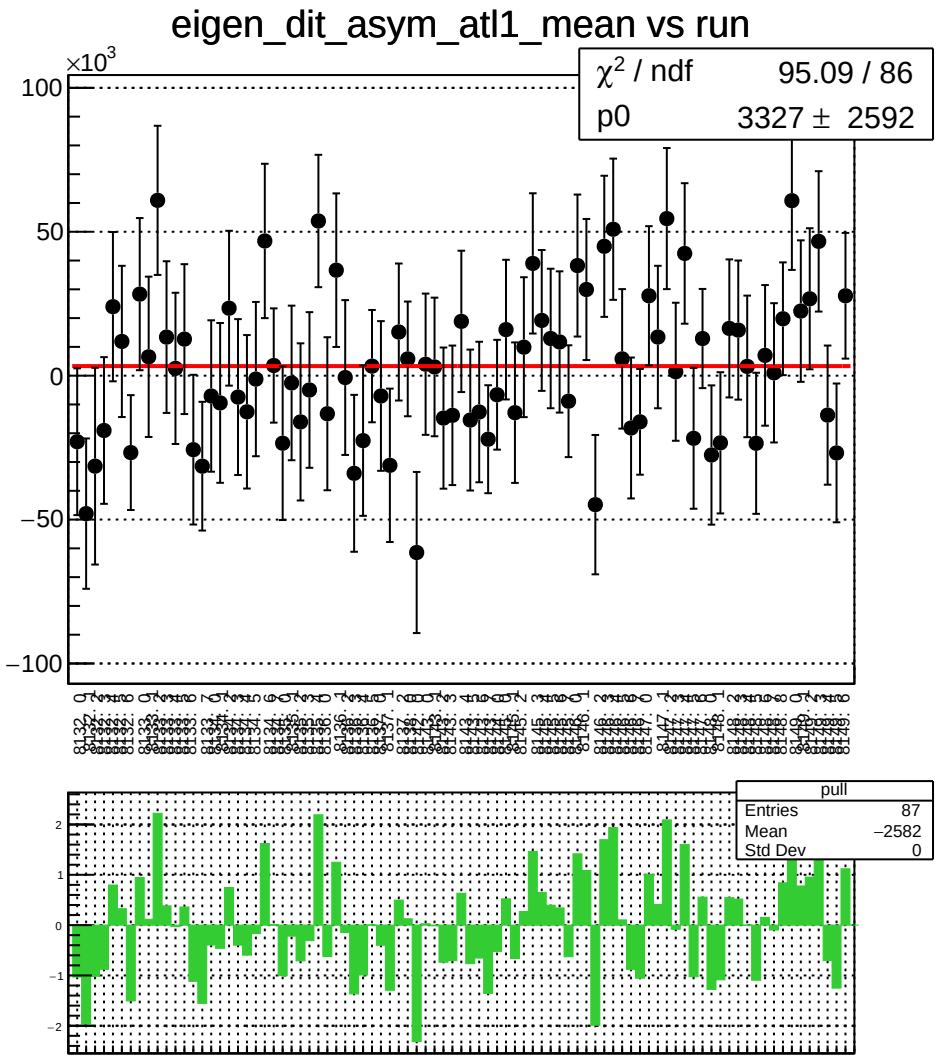

pull1D
Entries 87
Mean −0.0022
Std Dev 1.045

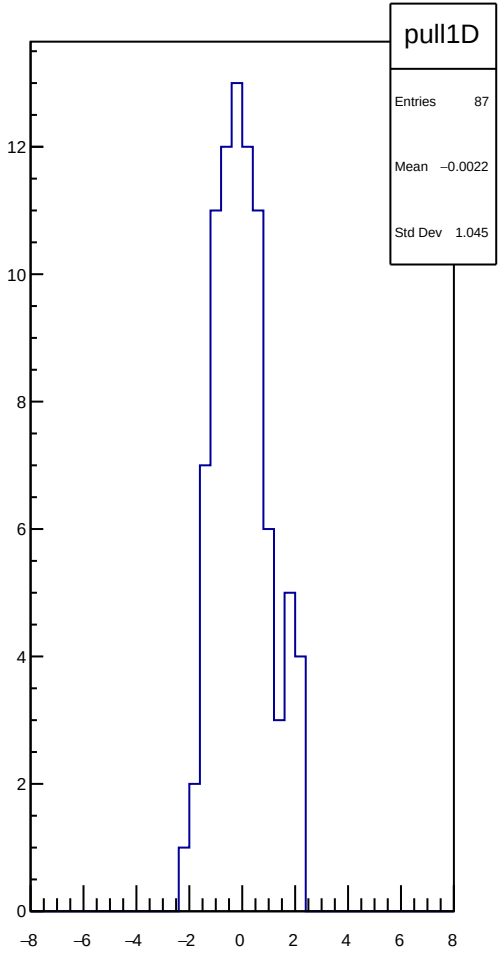

dit_asym_atl1_rms vs run
χ² / ndf 4572 / 86
p0 2399 ± 1.832
3200
3000
2800
2600
2400
2200

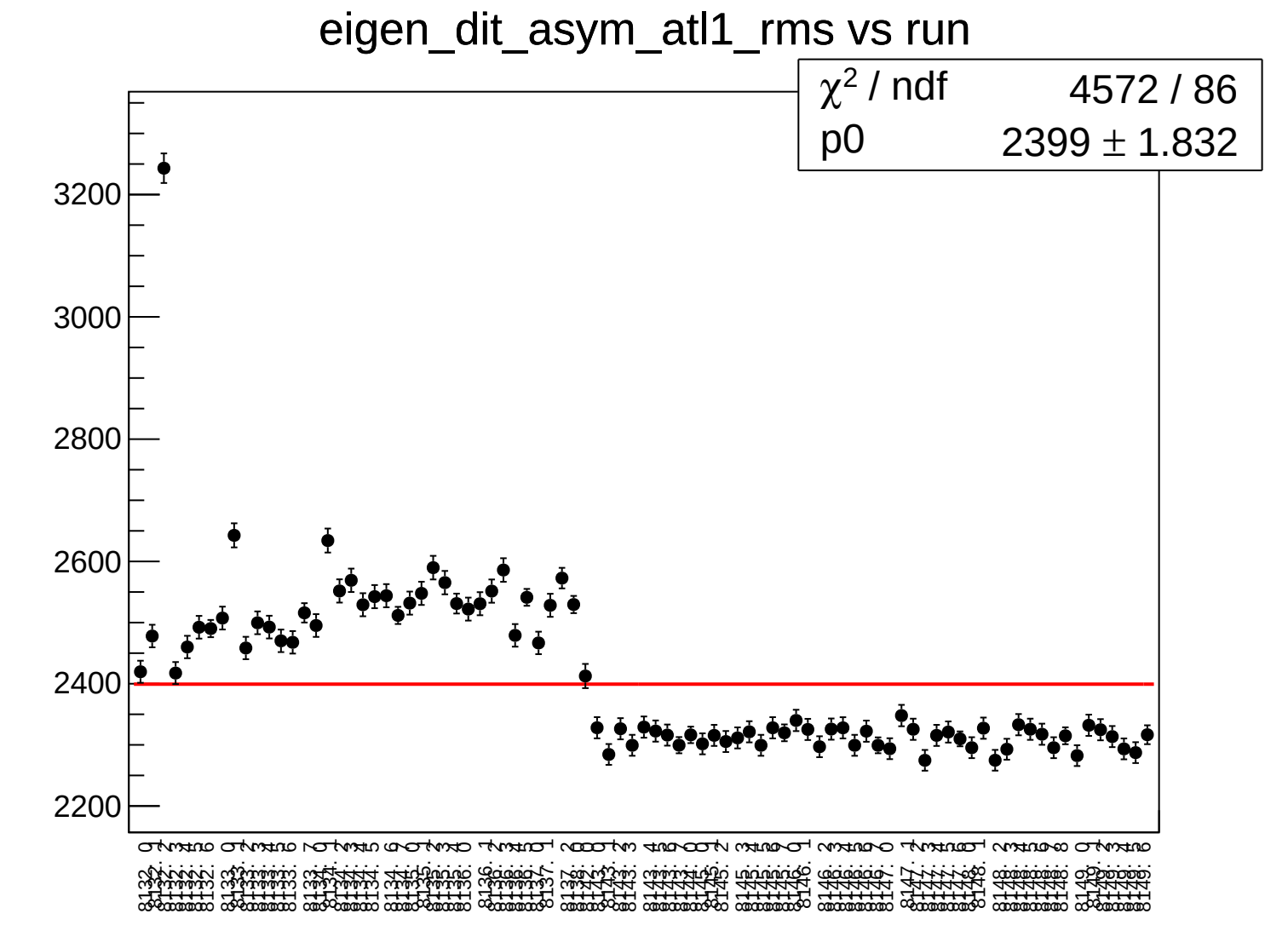

asym_atl1_dit_correction_mean vs run
χ² / ndf 84.74 / 86
p0 −565.1± 1164
pull
Entries 87
Mean −35.73
Std Dev 0

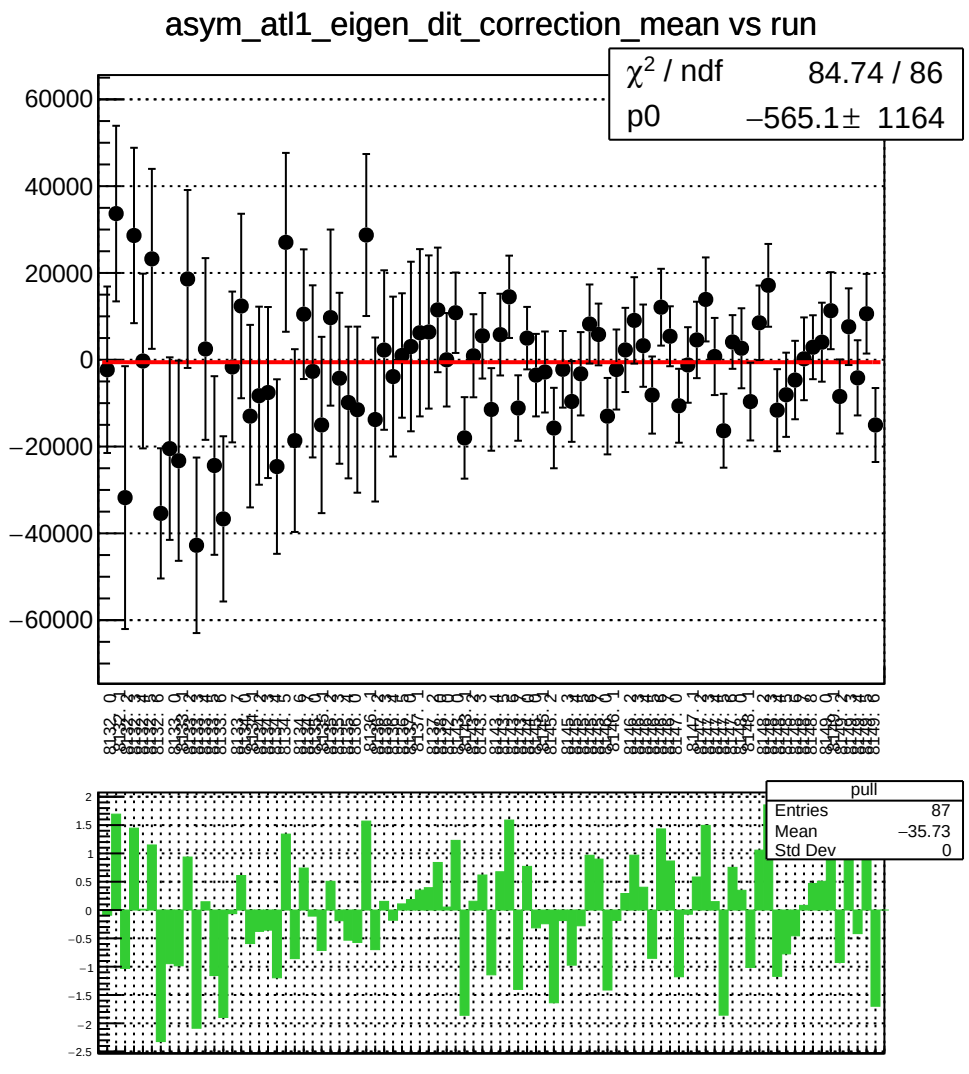

pull1D
Entries 87
Mean −0.03572
Std Dev 0.9863

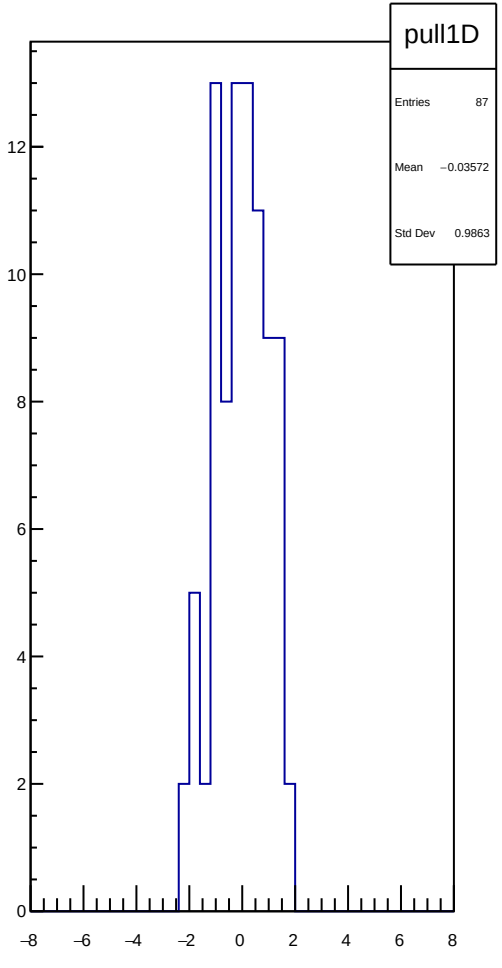

asym_atl1_dit_correction_rms vs run
χ^2 / ndf 1.968e+05 / 86
p0 1016 ± 0.8234
3000
2500
2000
1500
1000

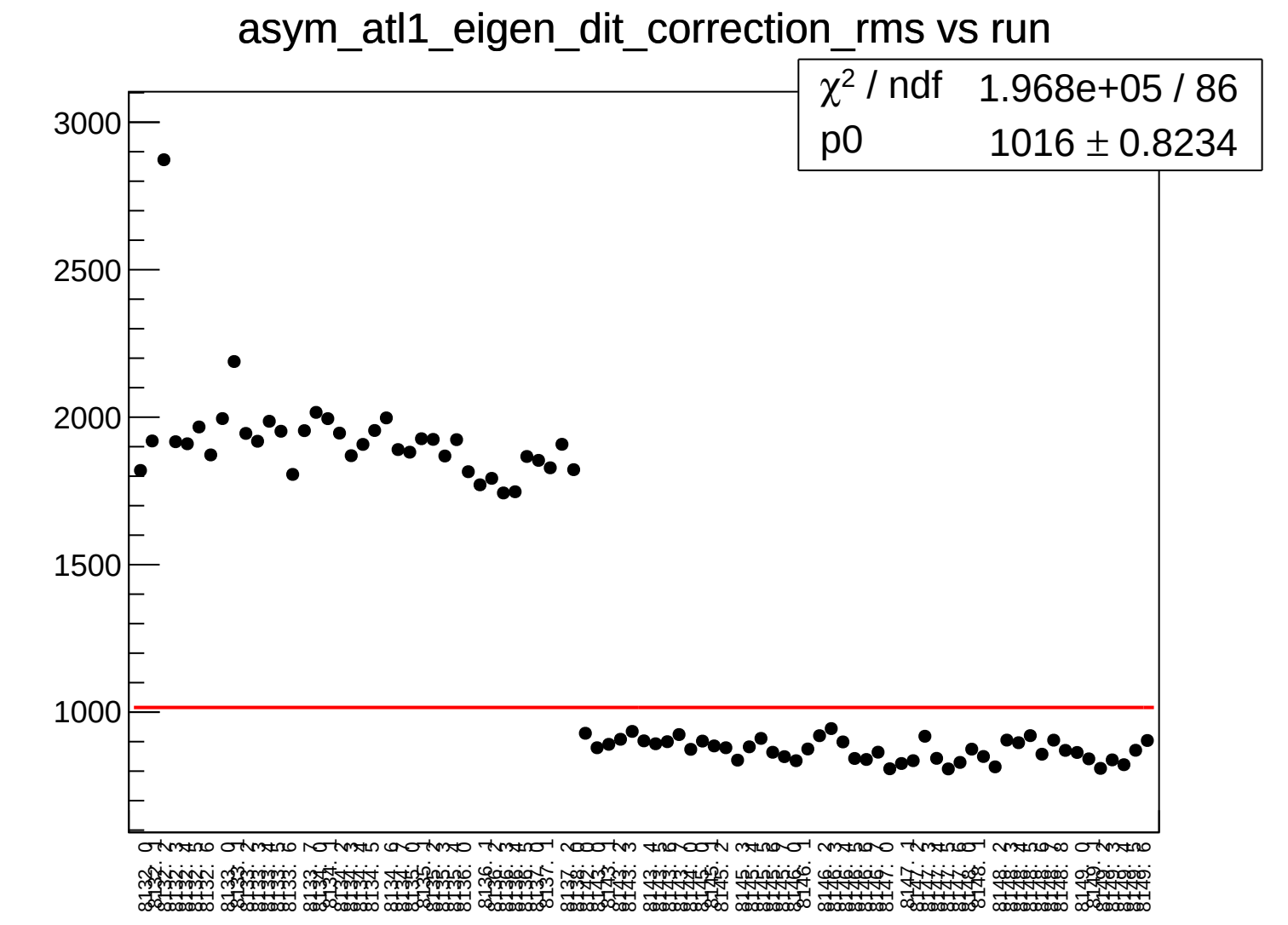

eigen_dit_asym_atl1_mean vs run
×10^3
χ^2 / ndf 95.09 / 86
p0 3327 ± 2592
100
50
0
−50
−100
pull
Entries 87
Mean −2582
Std Dev 0
2
1
0
−1
−2

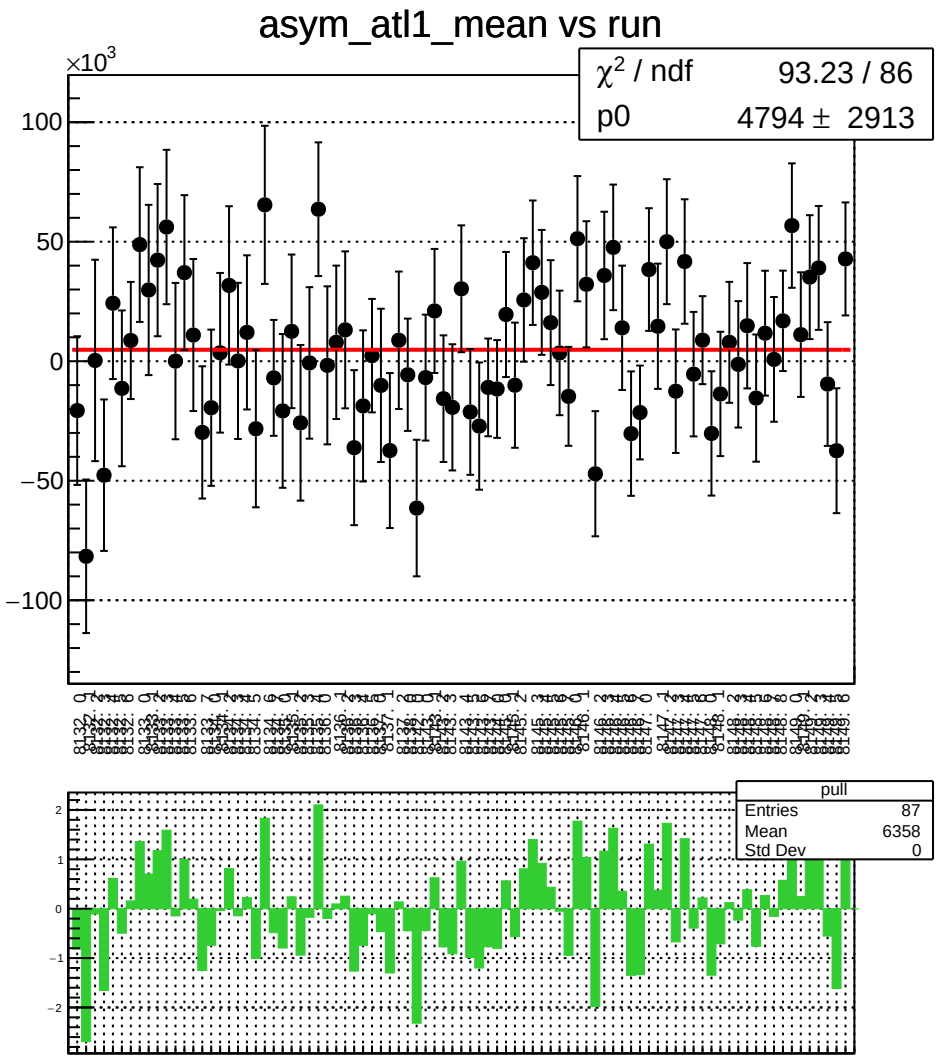

pull1D
Entries 87
Mean −0.0022
Std Dev 1.045
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

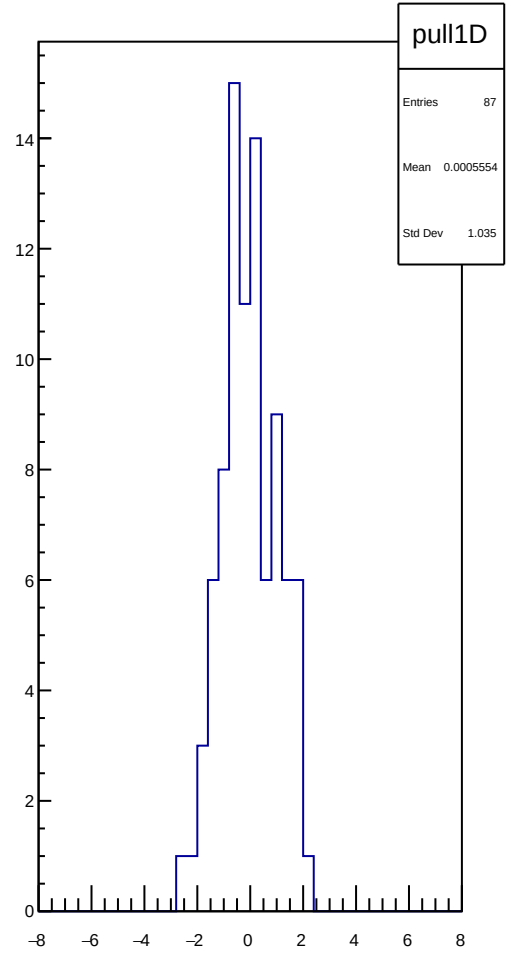

eigen_dit_asym_atl1_rms vs run
χ^2 / ndf 4572 / 86
p0 2399 ± 1.832
3200
3000
2800
2600
2400
2200

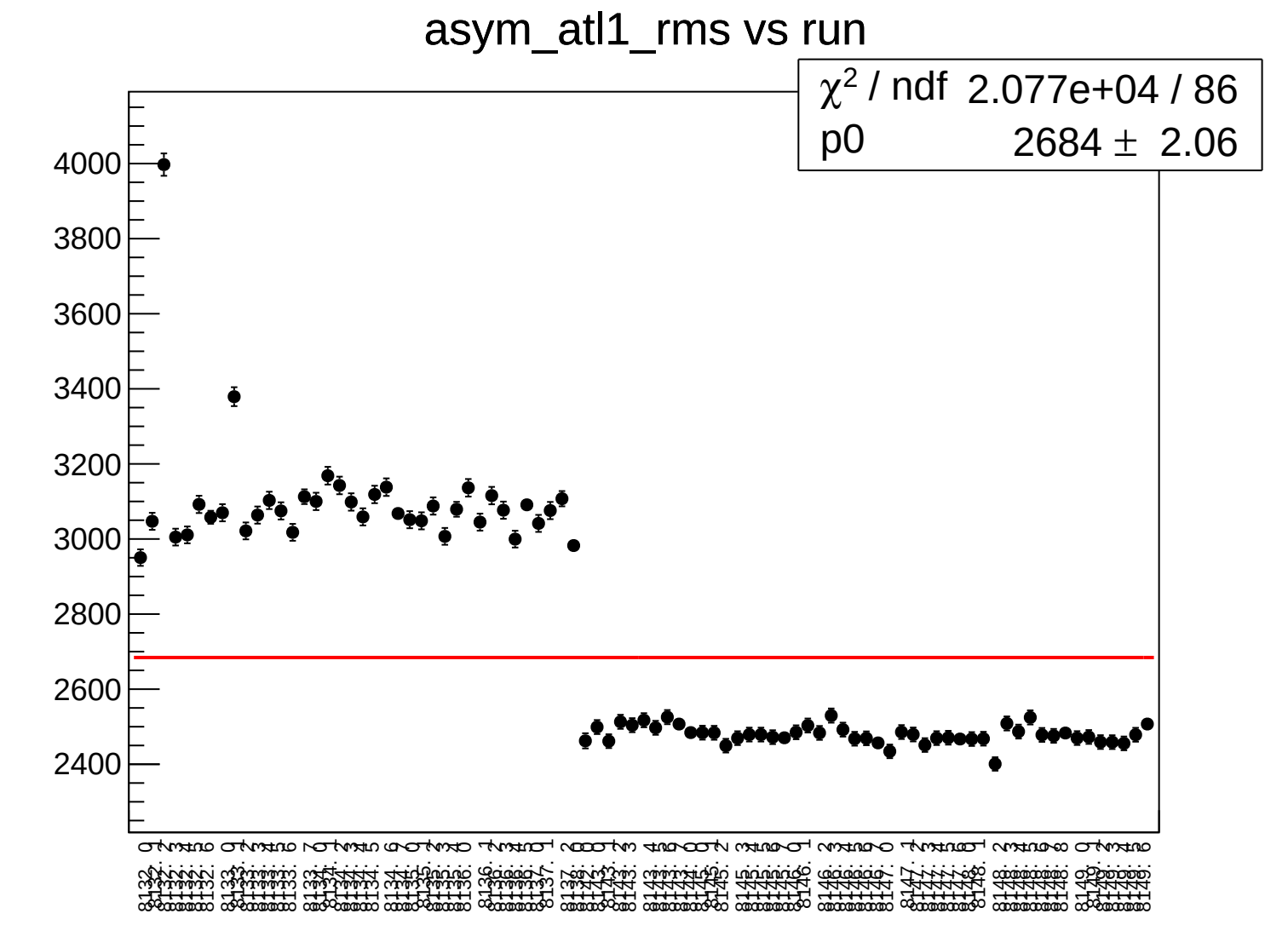

asym_atl1_eigen_dit_correction_mean vs run
χ² / ndf 84.74 / 86
p0 −565.1± 1164
pull
Entries 87
Mean −35.73
Std Dev 0

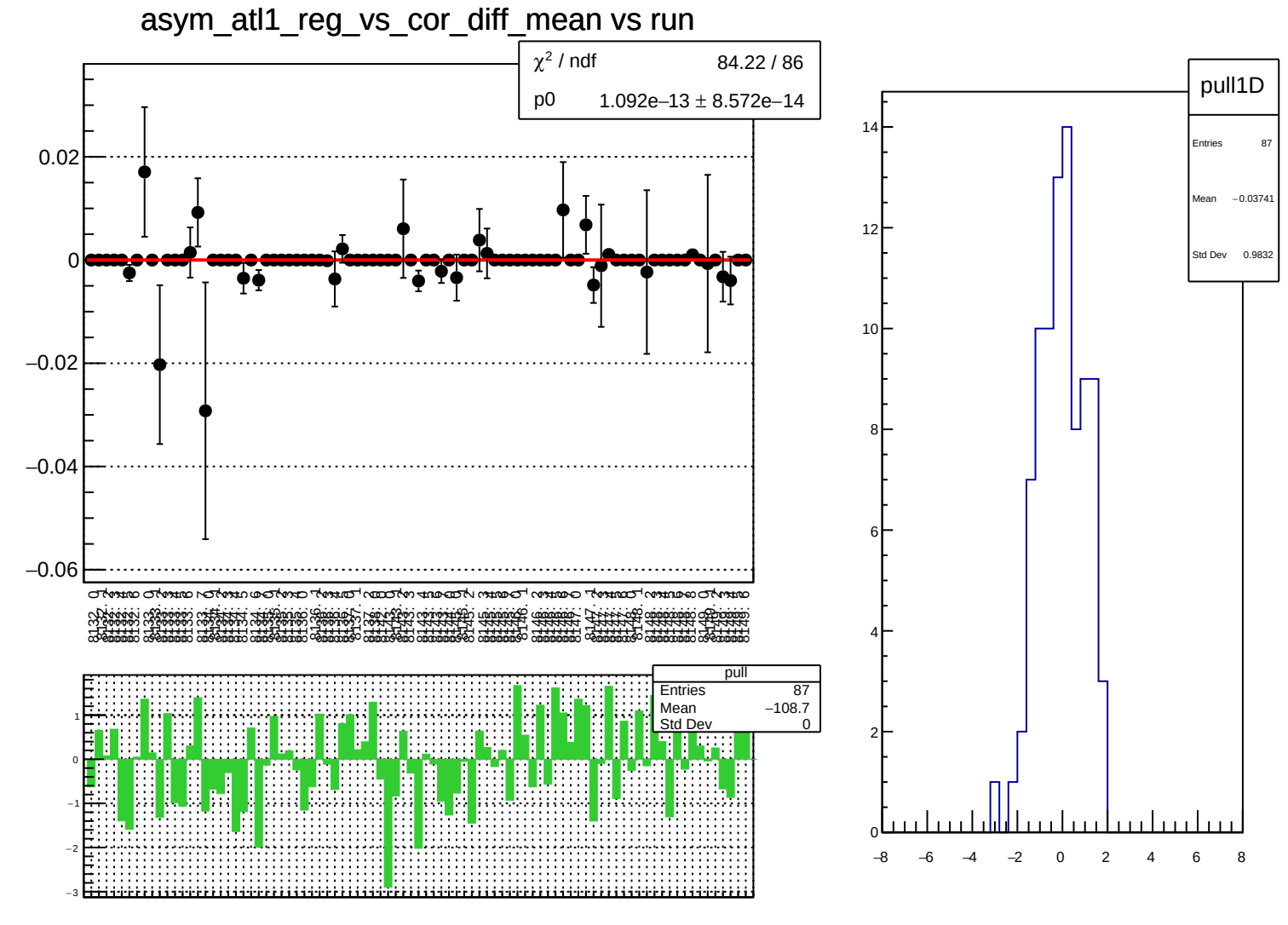

pull1D
Entries 87
Mean −0.03572
Std Dev 0.9863

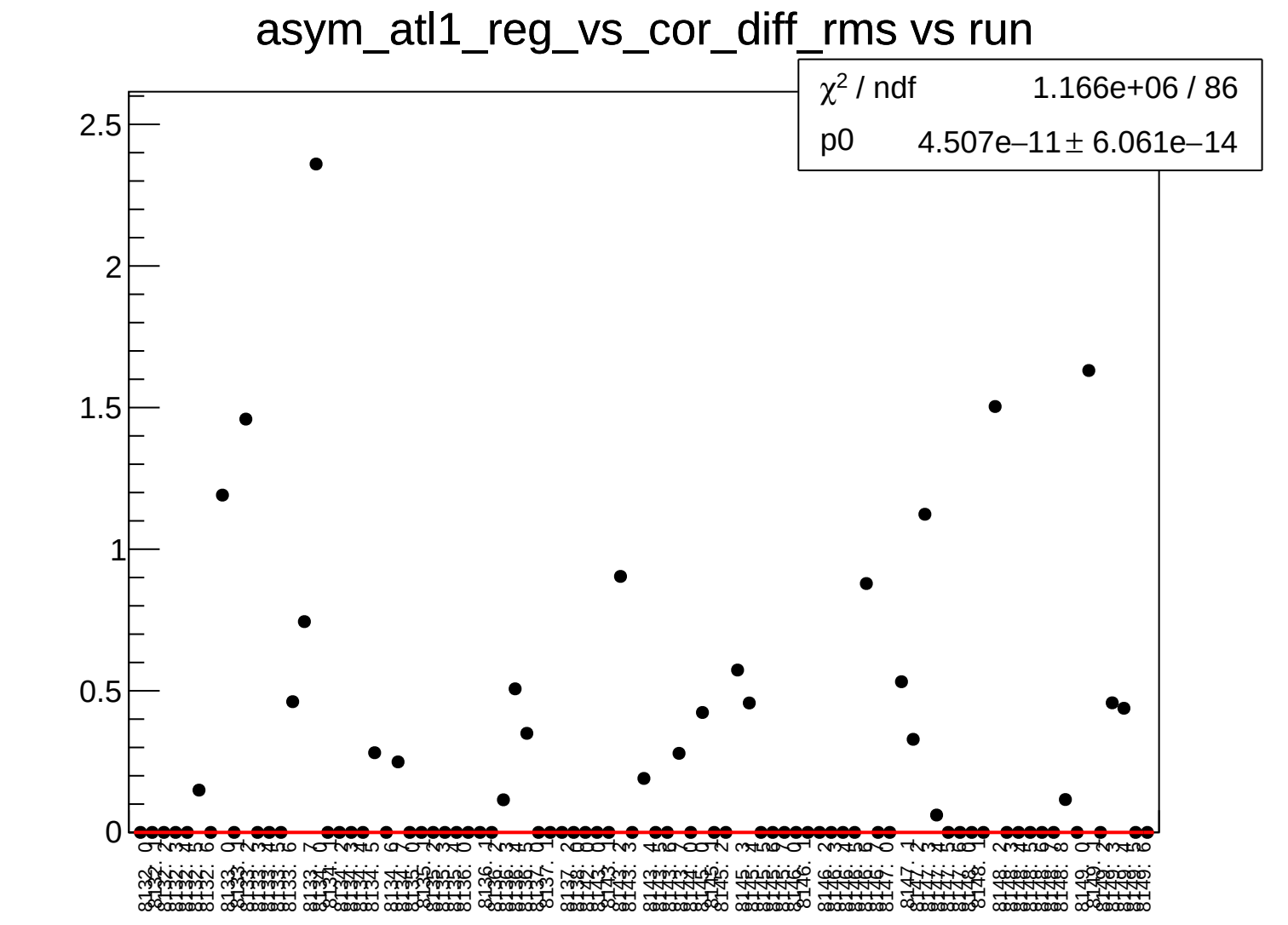

asym_atl1_eigen_dit_correction_rms vs run
χ² / ndf 1.968e+05 / 86
p0 1016 ± 0.8234
3000
2500
2000
1500
1000

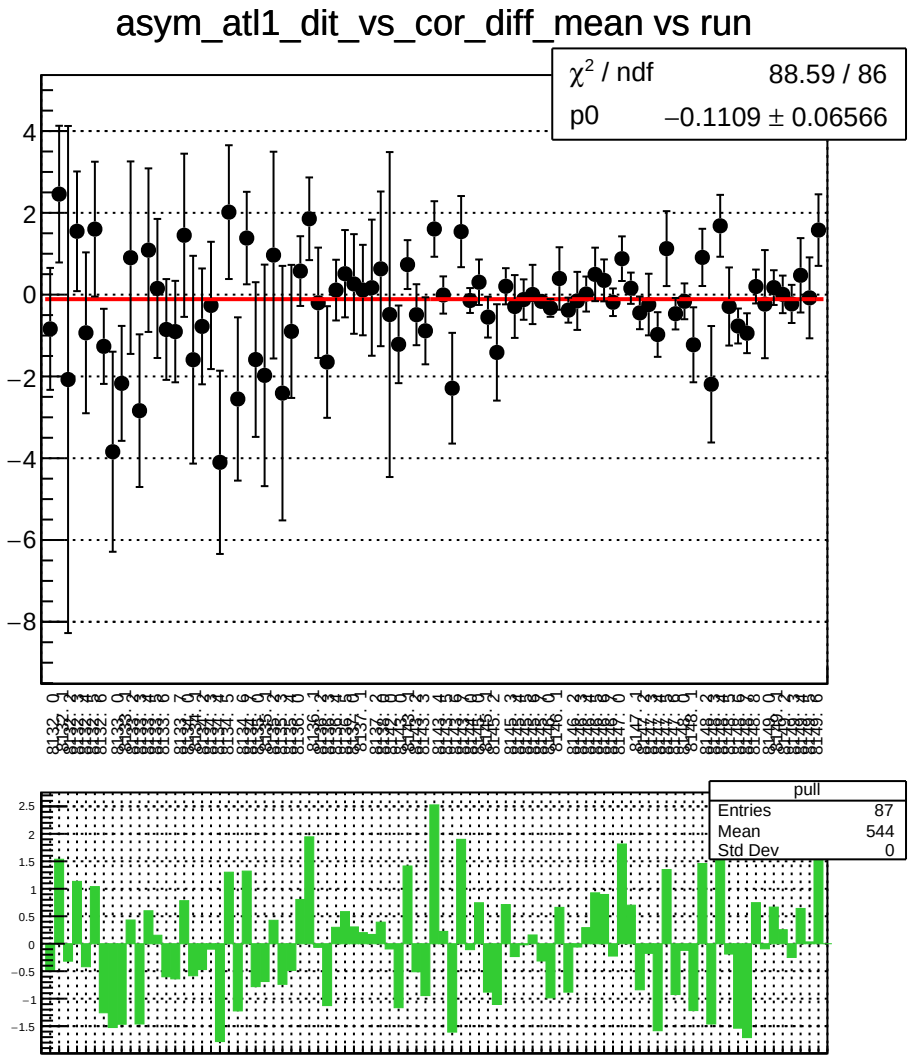

asym_atl1_mean vs run
×10^3
χ² / ndf 93.23 / 86
p0 4794 ± 2913
100
50
0
−50
−100
pull
Entries 87
Mean 6358
Std Dev 0
2
1
0
−1
−2

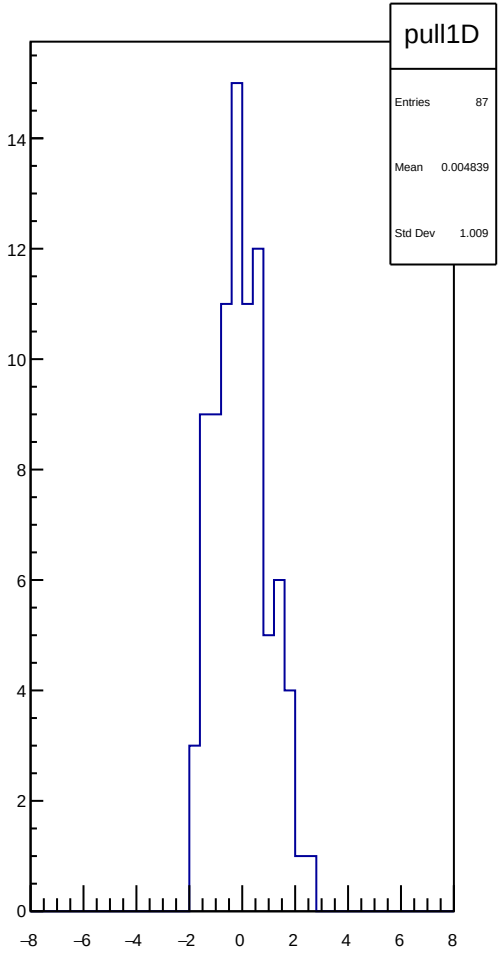

pull1D
Entries 87
Mean 0.0005554
Std Dev 1.035
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

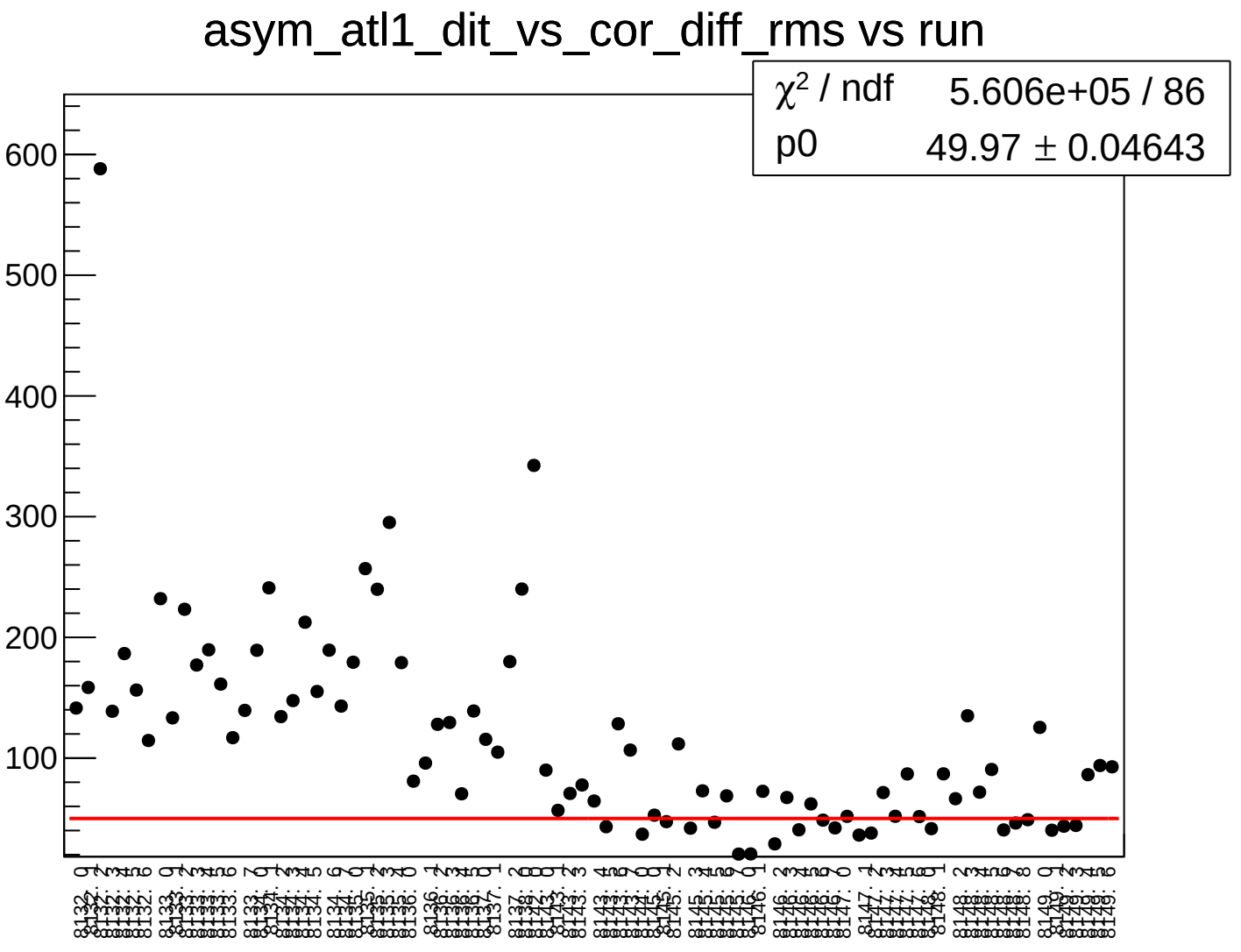

asym_atl1_rms vs run
χ² / ndf 2.077e+04 / 86
p0 2684 ± 2.06
4000
3800
3600
3400
3200
3000
2800
2600
2400

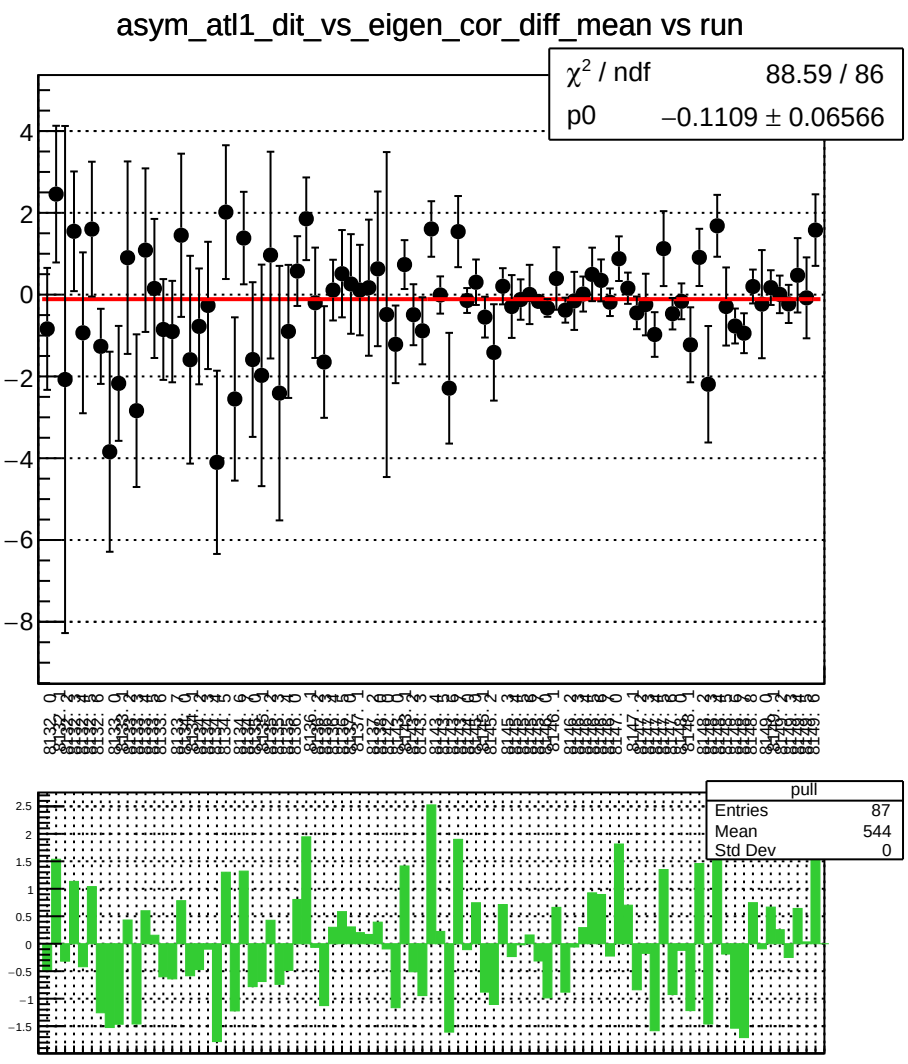

asym_atl1_reg_vs_cor_diff_mean vs run
χ² / ndf 84.22 / 86
p0 1.092e−13 ± 8.572e−14
0.02
0
−0.02
−0.04
−0.06
pull
Entries 87
Mean −108.7
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 87
Mean −0.03741
Std Dev 0.9832
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

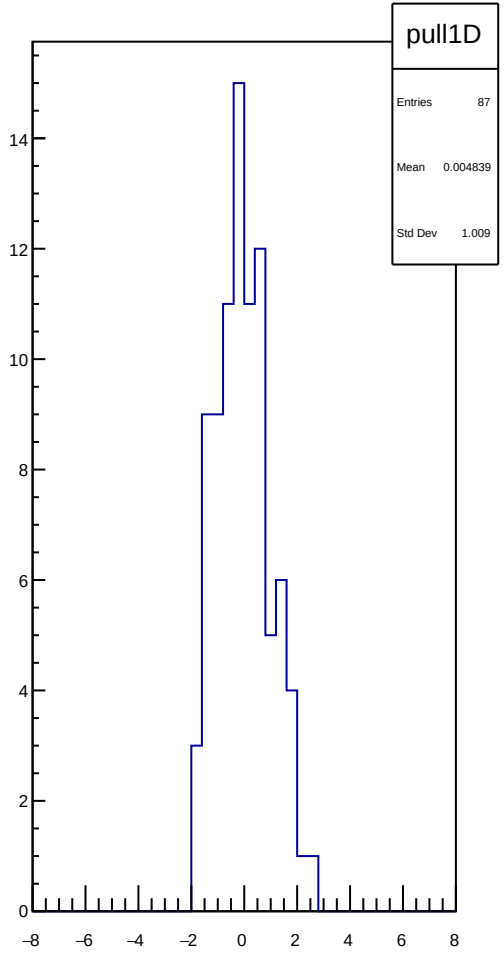

asym_atl1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.166e+06 / 86
p0 4.507e−11 ± 6.061e−14
2.5
2
1.5
1
0.5
0

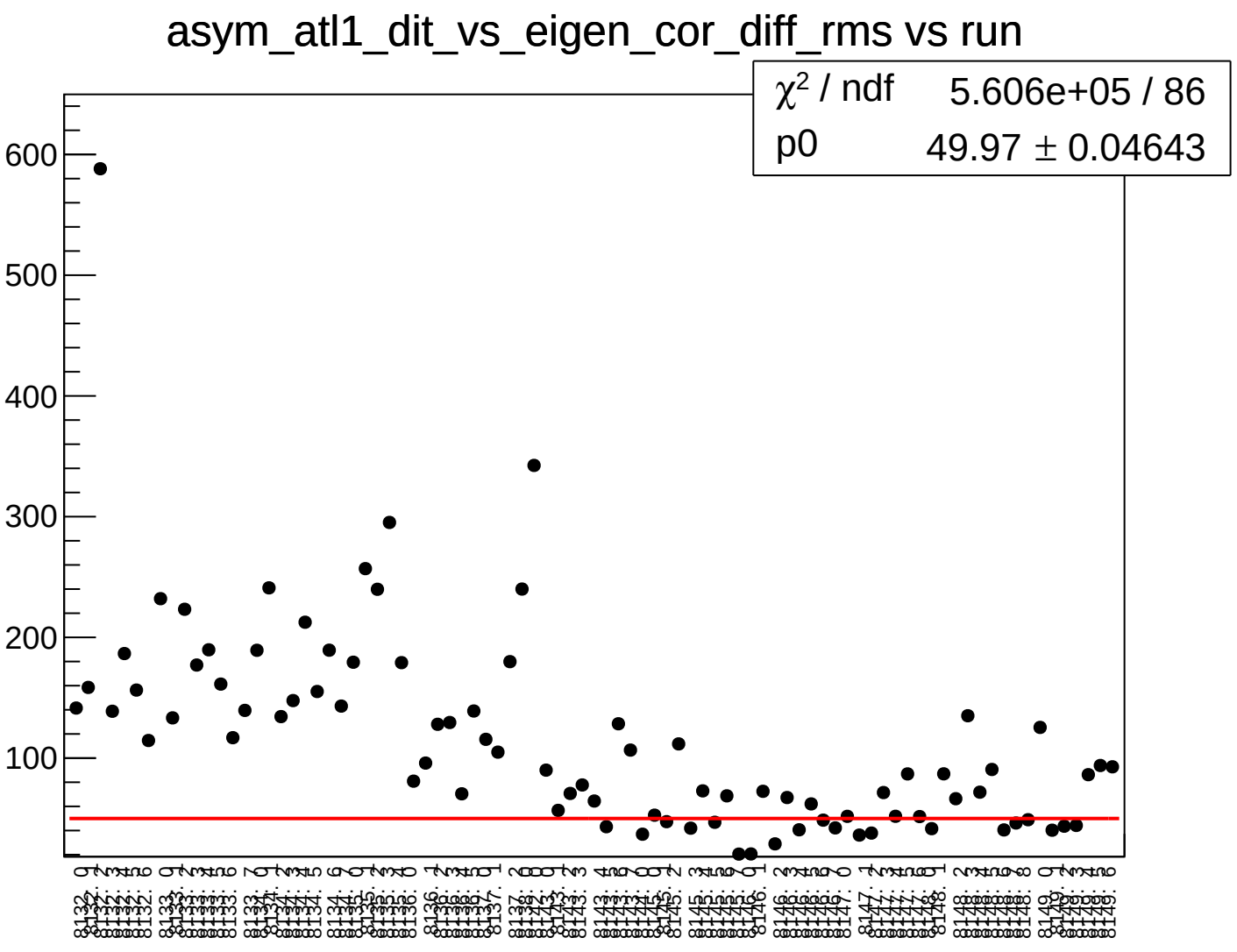

asym_atl1_dit_vs_cor_diff_mean vs run
χ² / ndf 88.59 / 86
p0 −0.1109 ± 0.06566
pull
Entries 87
Mean 544
Std Dev 0

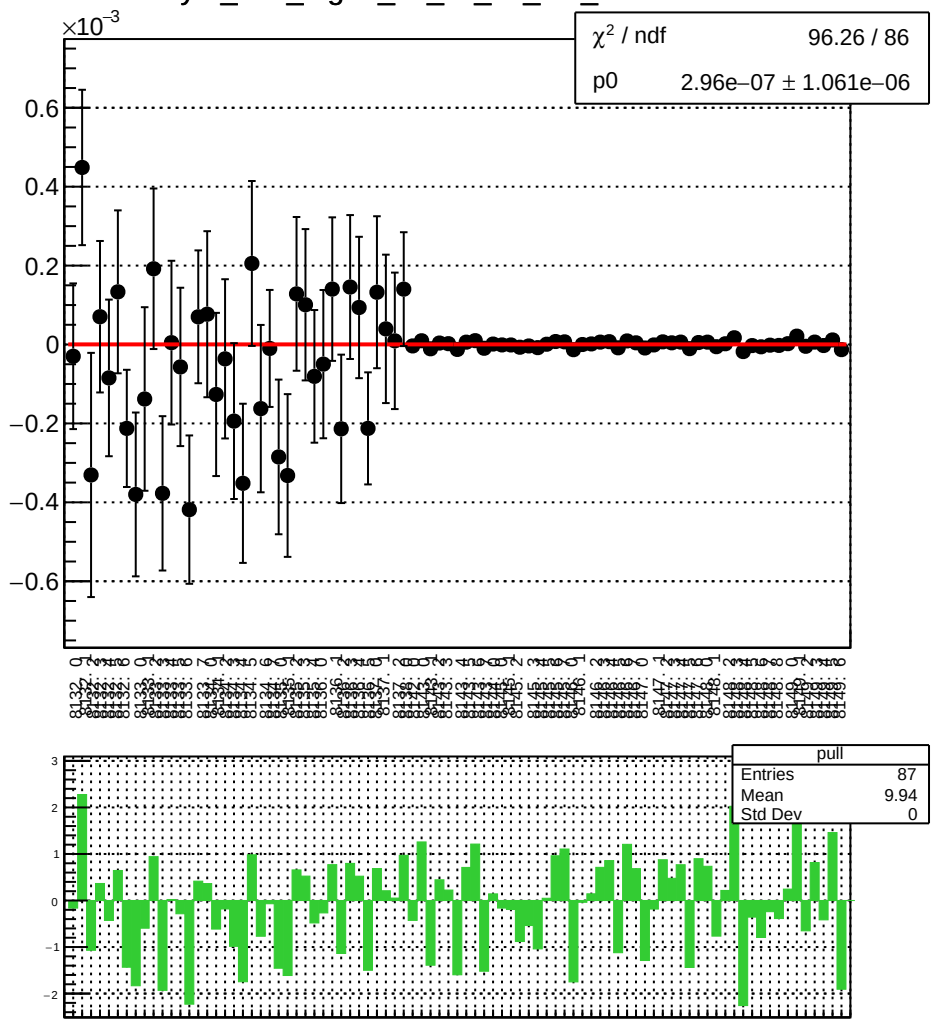

pull1D
Entries 87
Mean 0.004839
Std Dev 1.009

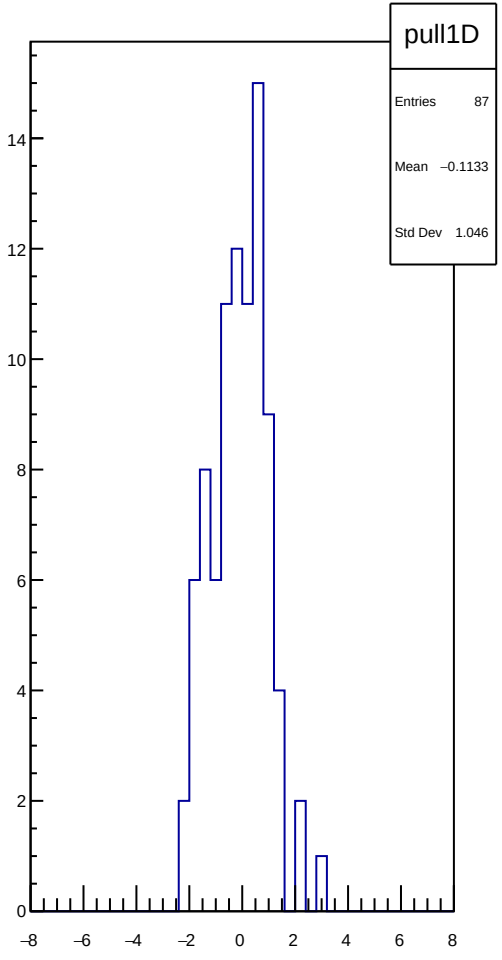

asym_atl1_dit_vs_cor_diff_rms vs run
χ^2 / ndf 5.606e+05 / 86
p0 49.97 ± 0.04643
600
500
400
300
200
100

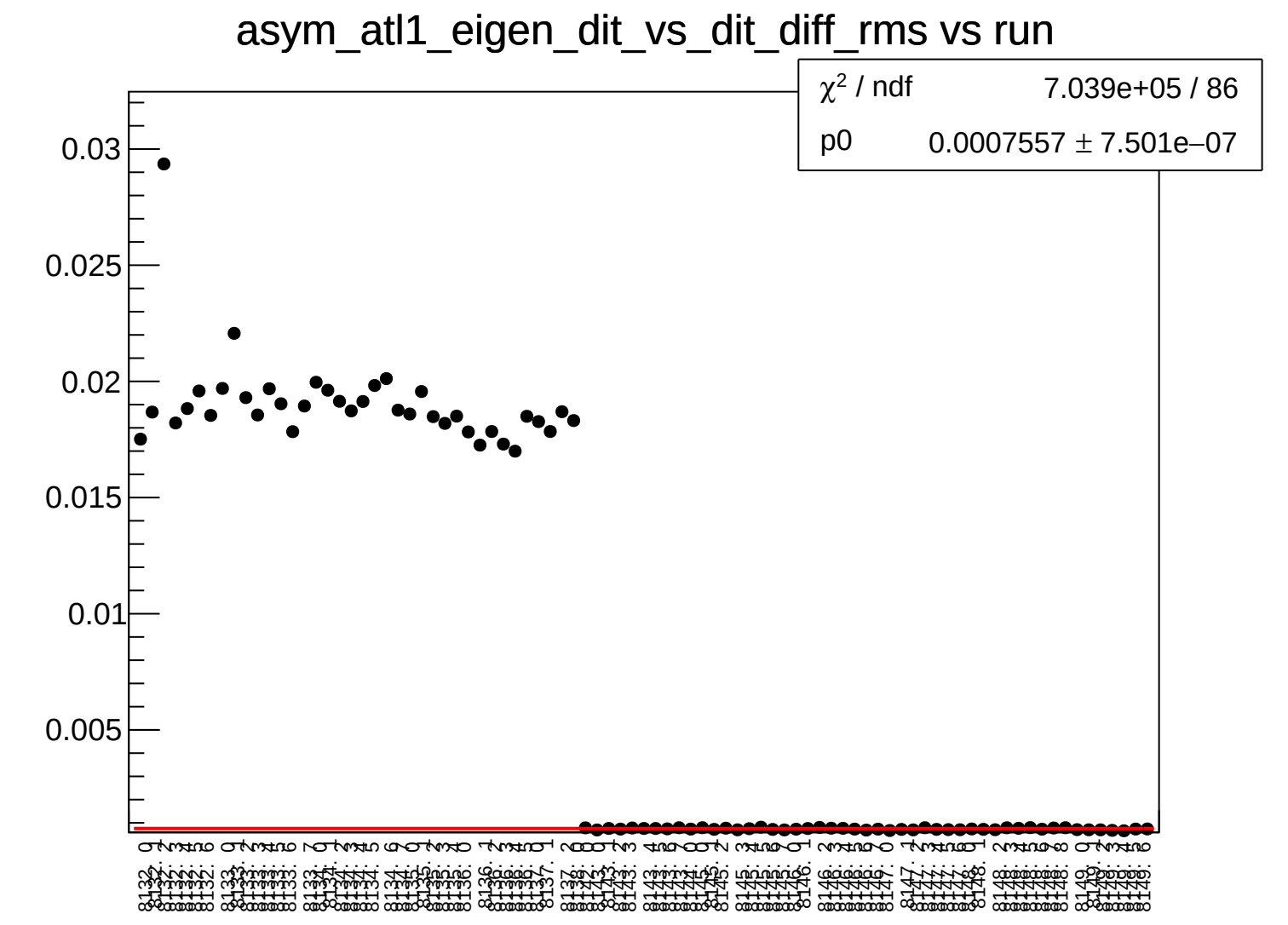

asym_atl1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.59 / 86
p0 −0.1109 ± 0.06566
pull
Entries 87
Mean 544
Std Dev 0

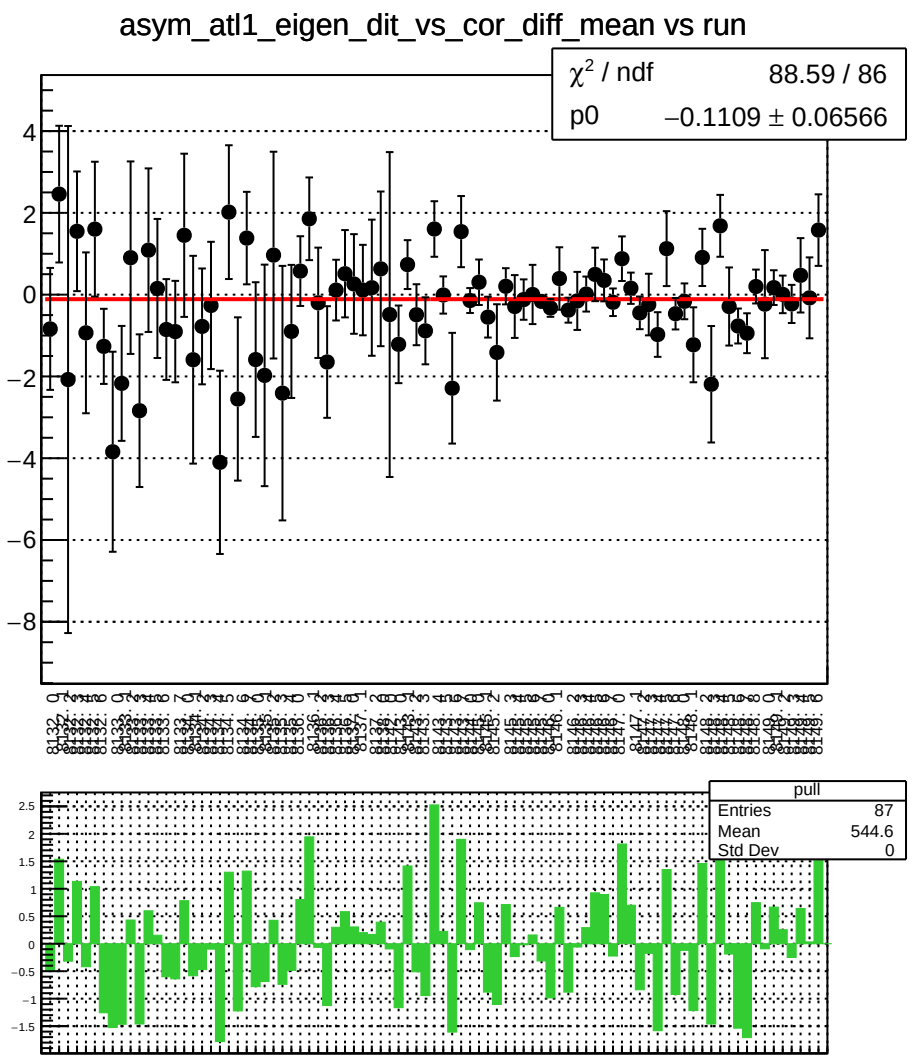

pull1D
Entries 87
Mean 0.004839
Std Dev 1.009

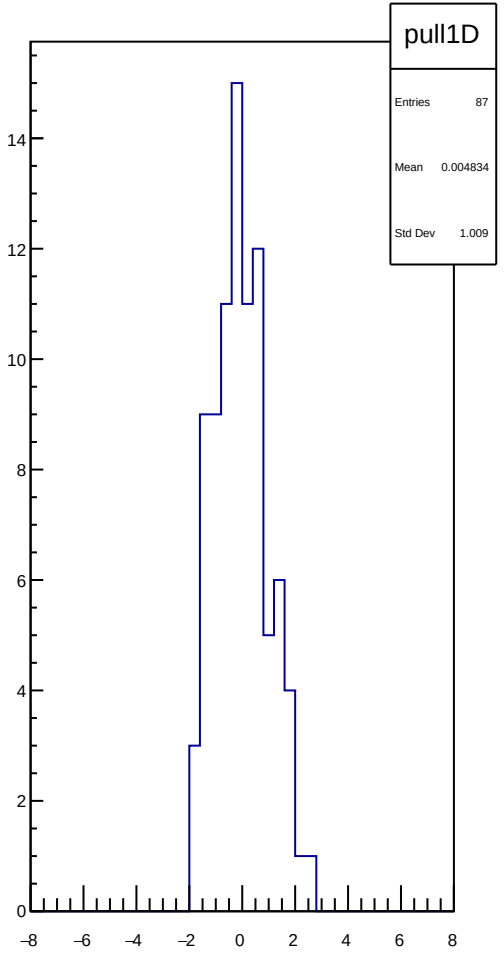

asym_atl1_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 5.606e+05 / 86
p0 49.97 ± 0.04643
600
500
400
300
200
100

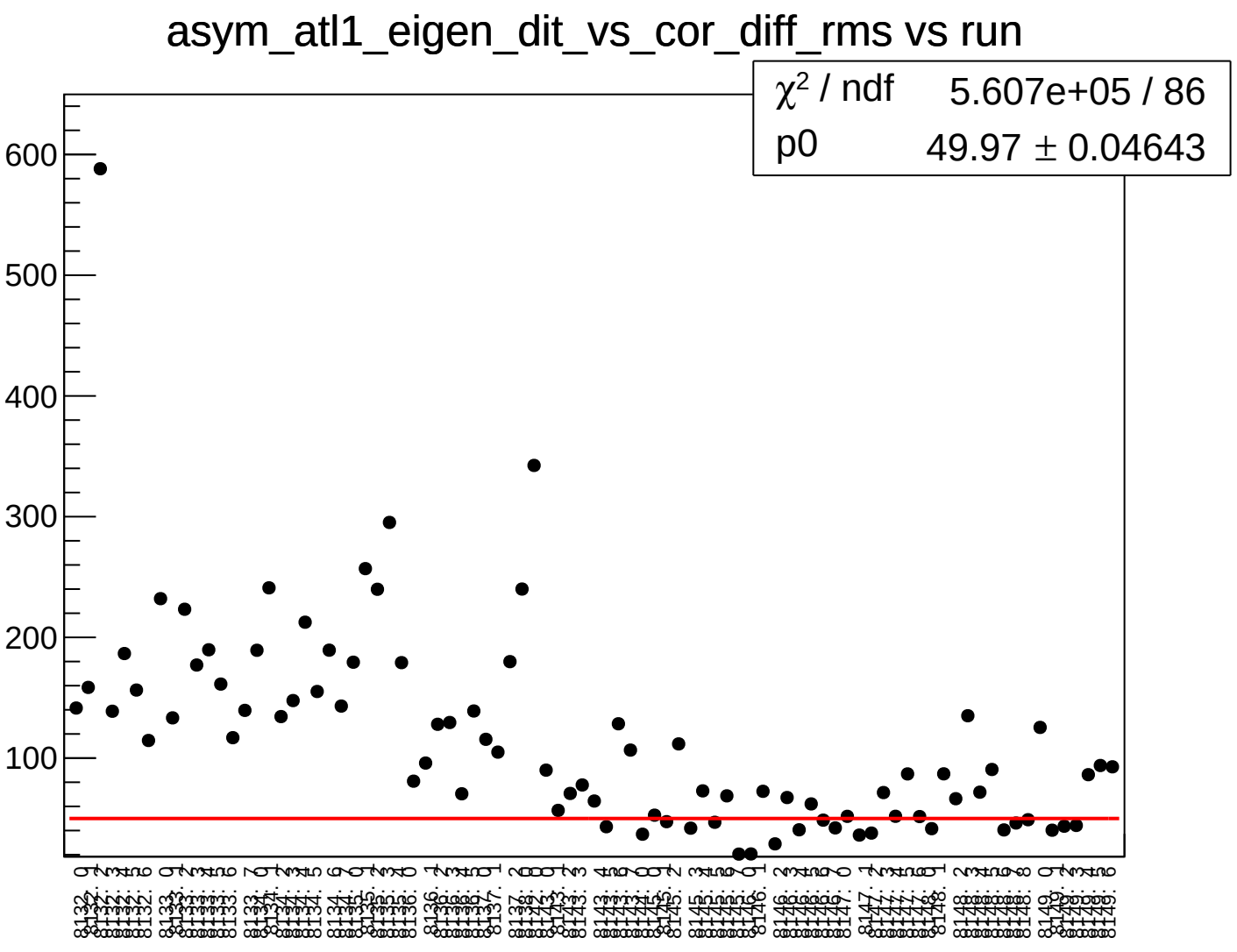

asym_atl1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.26 / 86
p0 2.96e−07 ± 1.061e−06
pull
Entries 87
Mean 9.94
Std Dev 0

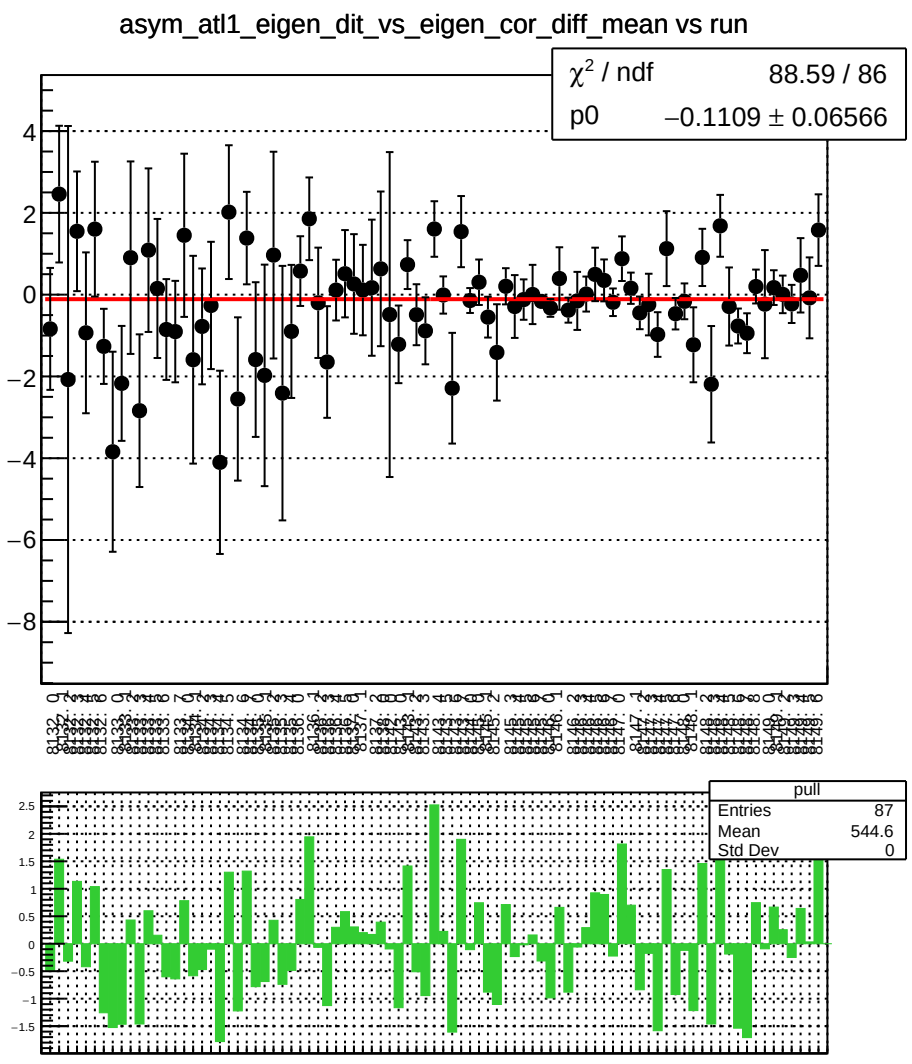

pull1D
Entries 87
Mean −0.1133
Std Dev 1.046

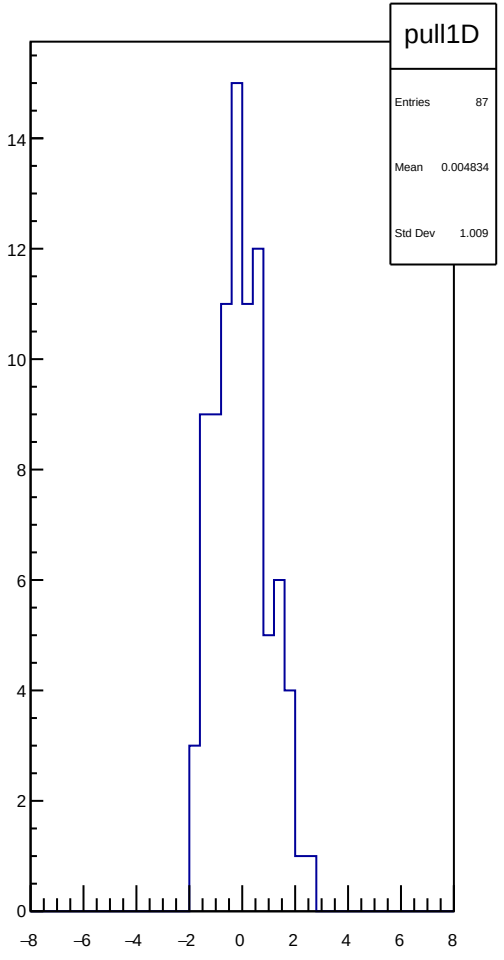

asym_atl1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.039e+05 / 86
p0 0.0007557 ± 7.501e−07
0.03
0.025
0.02
0.015
0.01
0.005

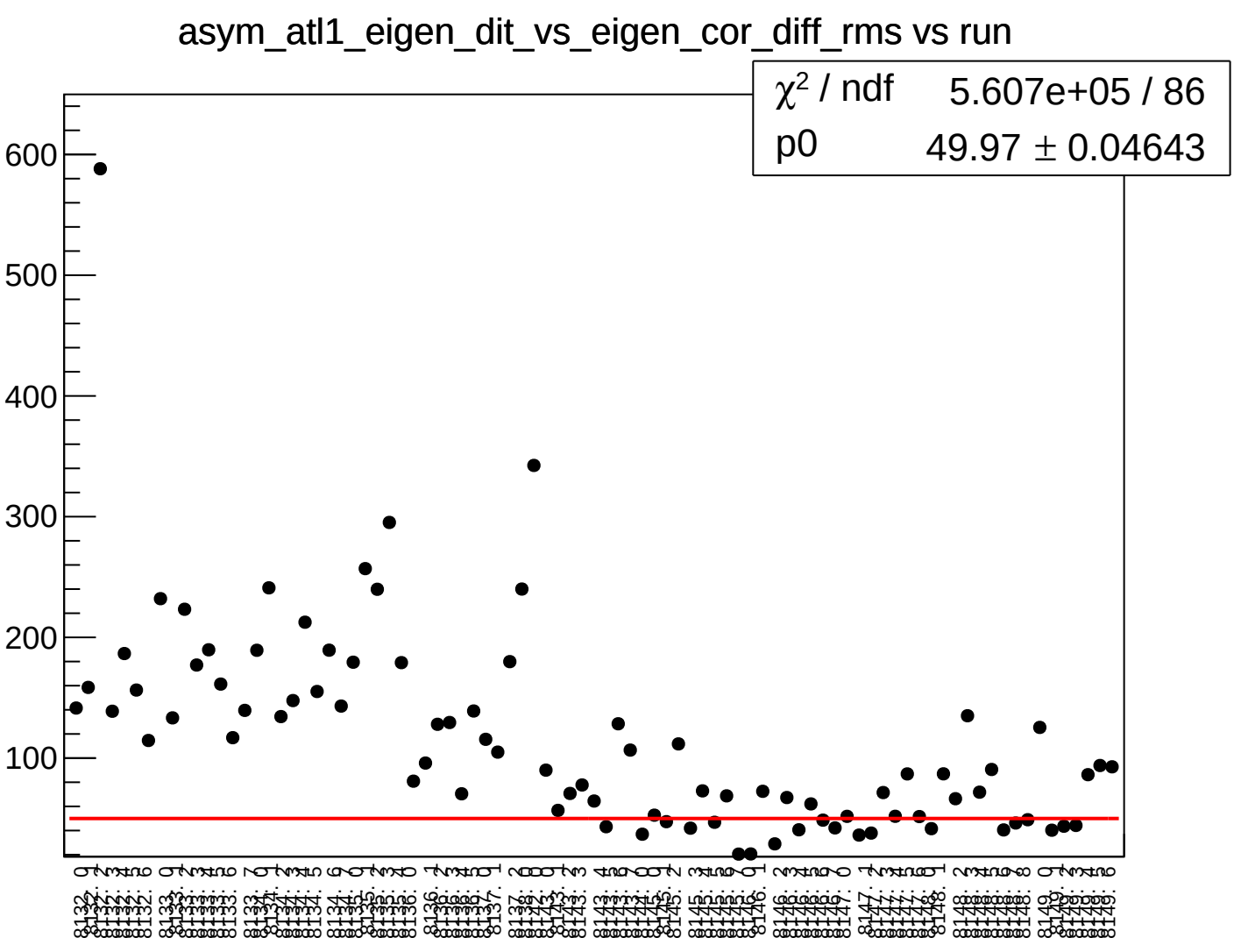

asym_atl1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.59 / 86
p0 −0.1109 ± 0.06566
pull
Entries 87
Mean 544.6
Std Dev 0

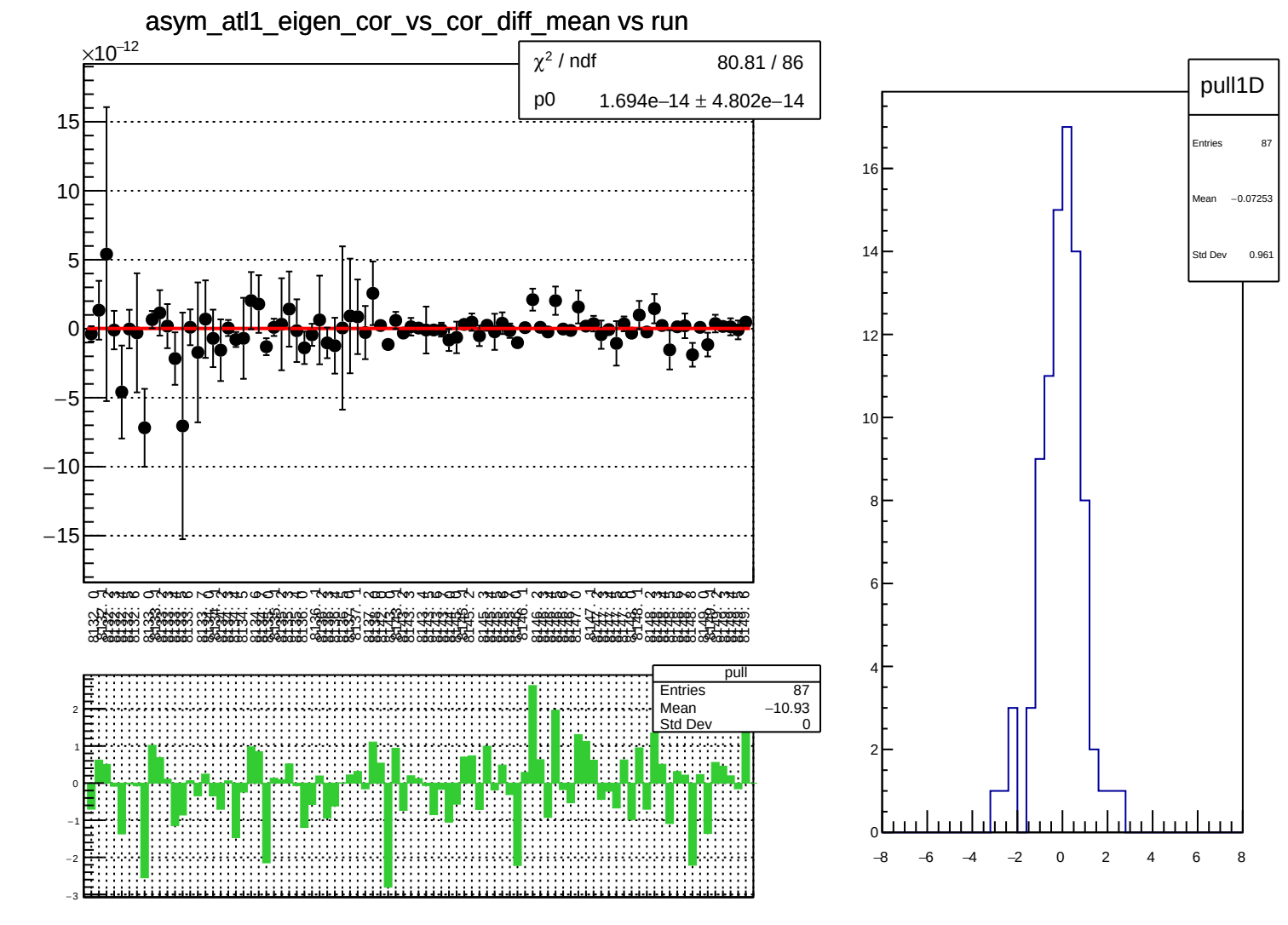

pull1D
Entries 87
Mean 0.004834
Std Dev 1.009

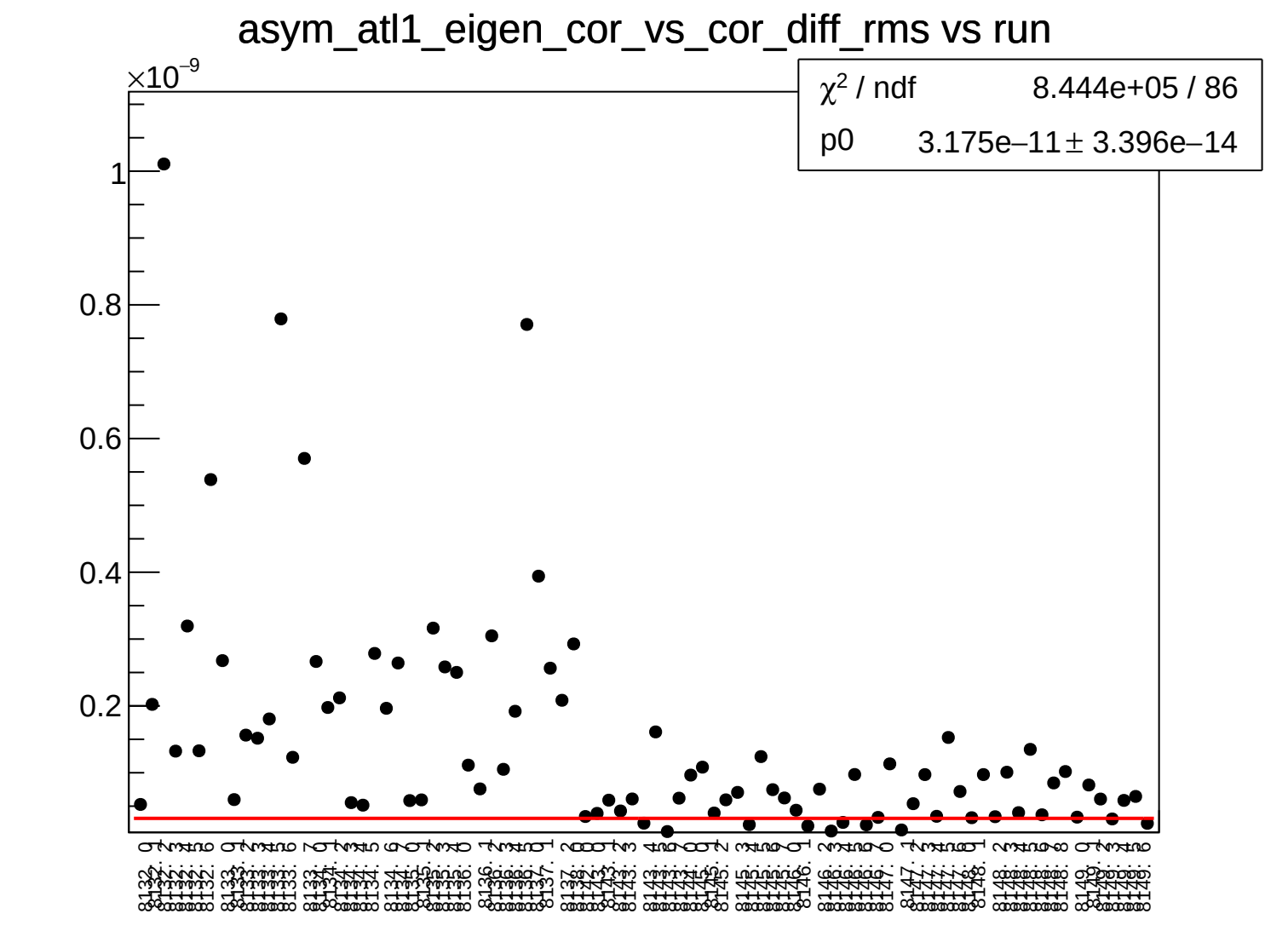

asym_atl1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.607e+05 / 86
p0 49.97 ± 0.04643
600
500
400
300
200
100

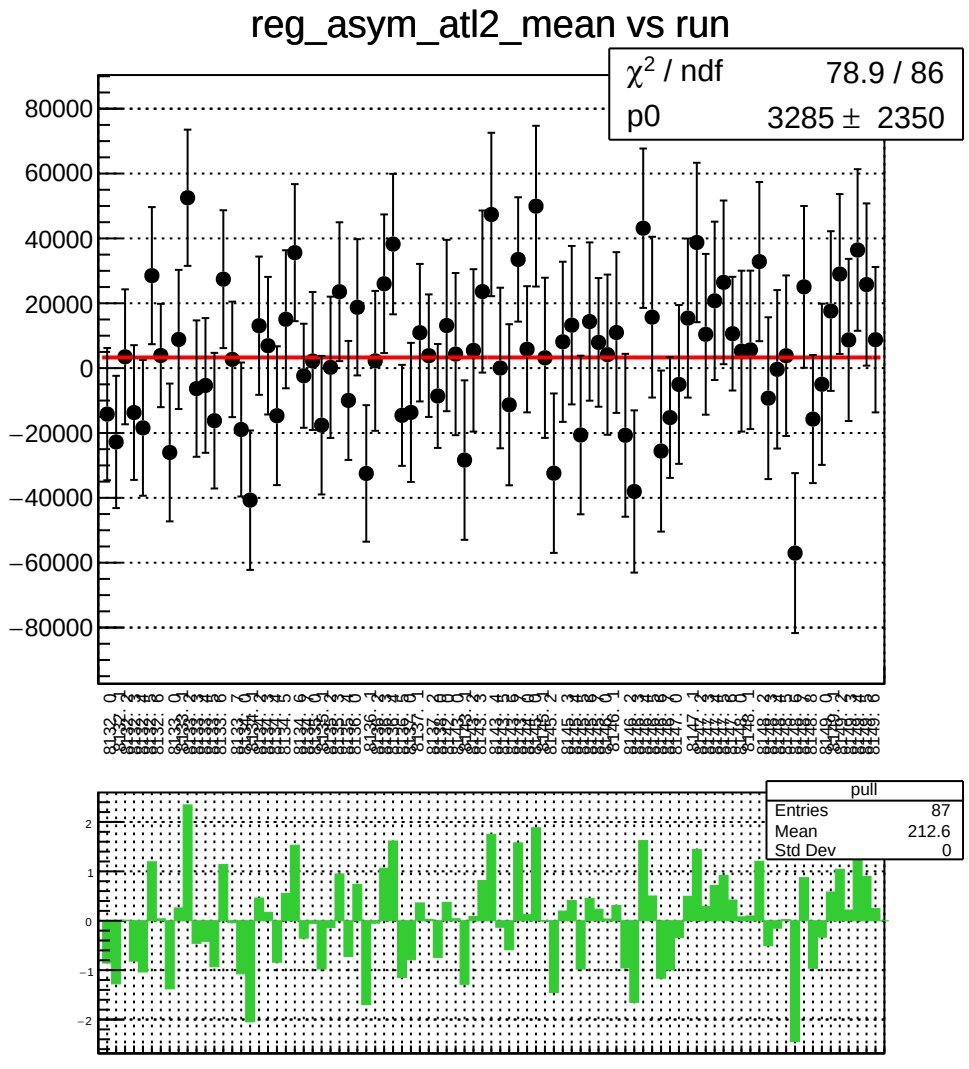

asym_atl1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.59 / 86
p0 −0.1109 ± 0.06566
pull
Entries 87
Mean 544.6
Std Dev 0

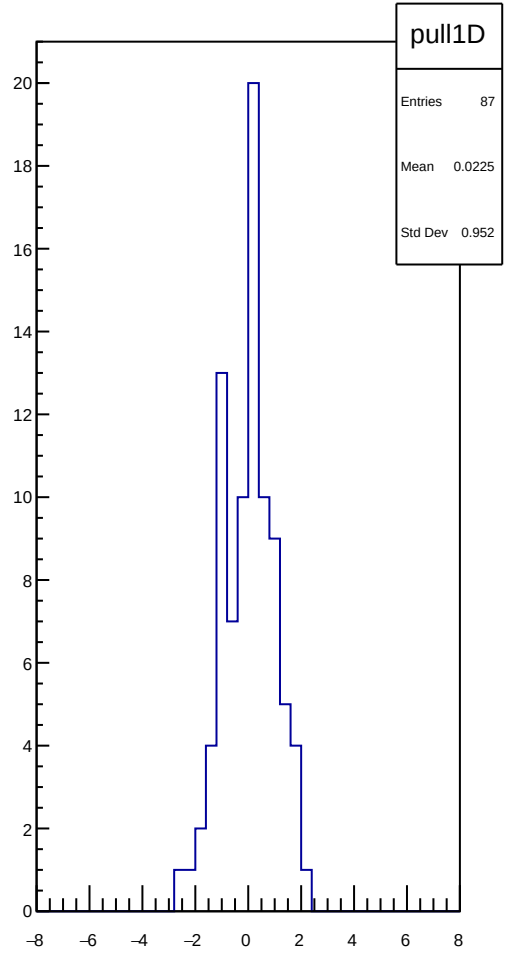

pull1D
Entries 87
Mean 0.004834
Std Dev 1.009

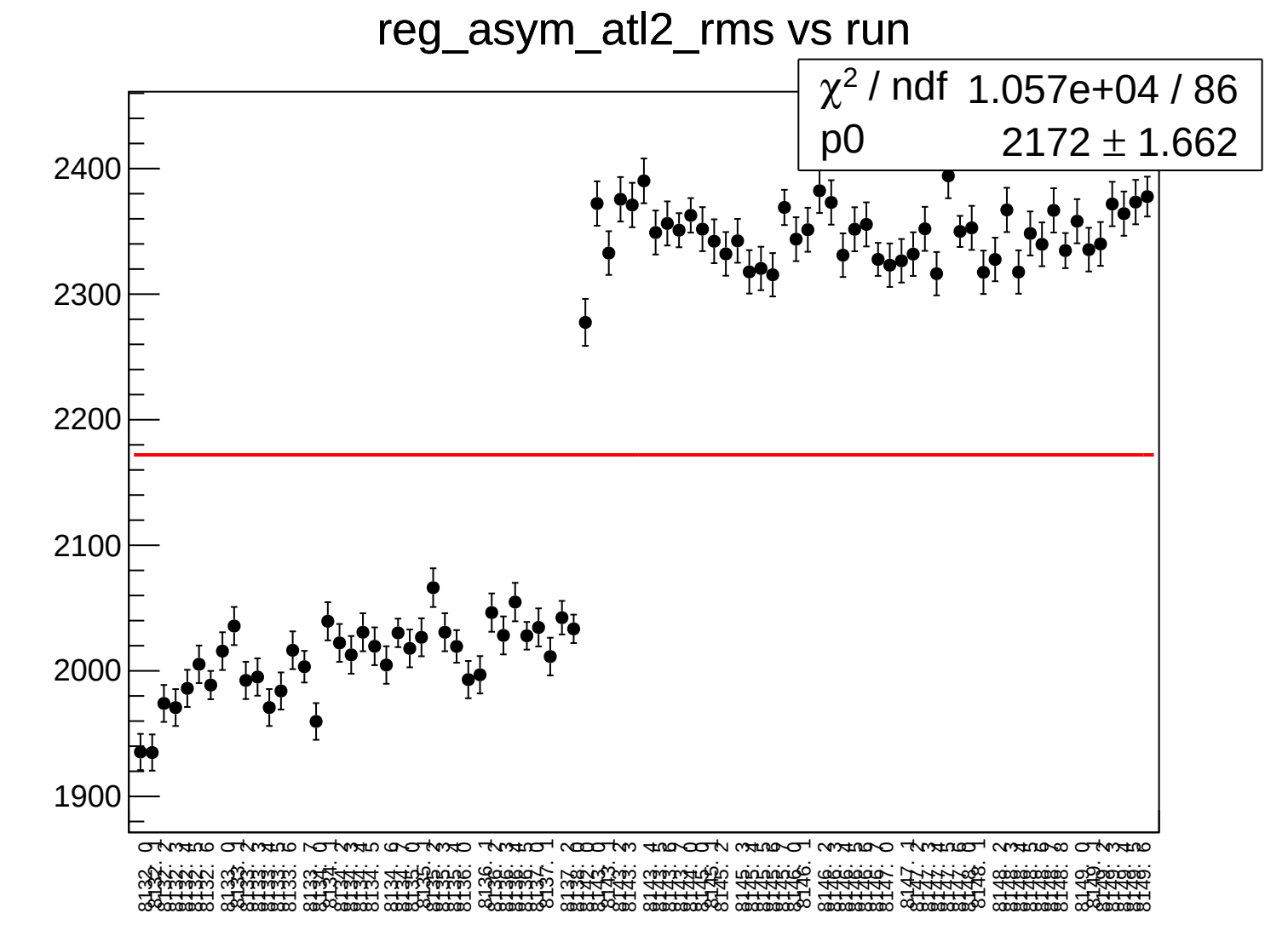

asym_atl1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 5.607e+05 / 86
p0 49.97 ± 0.04643
600
500
400
300
200
100

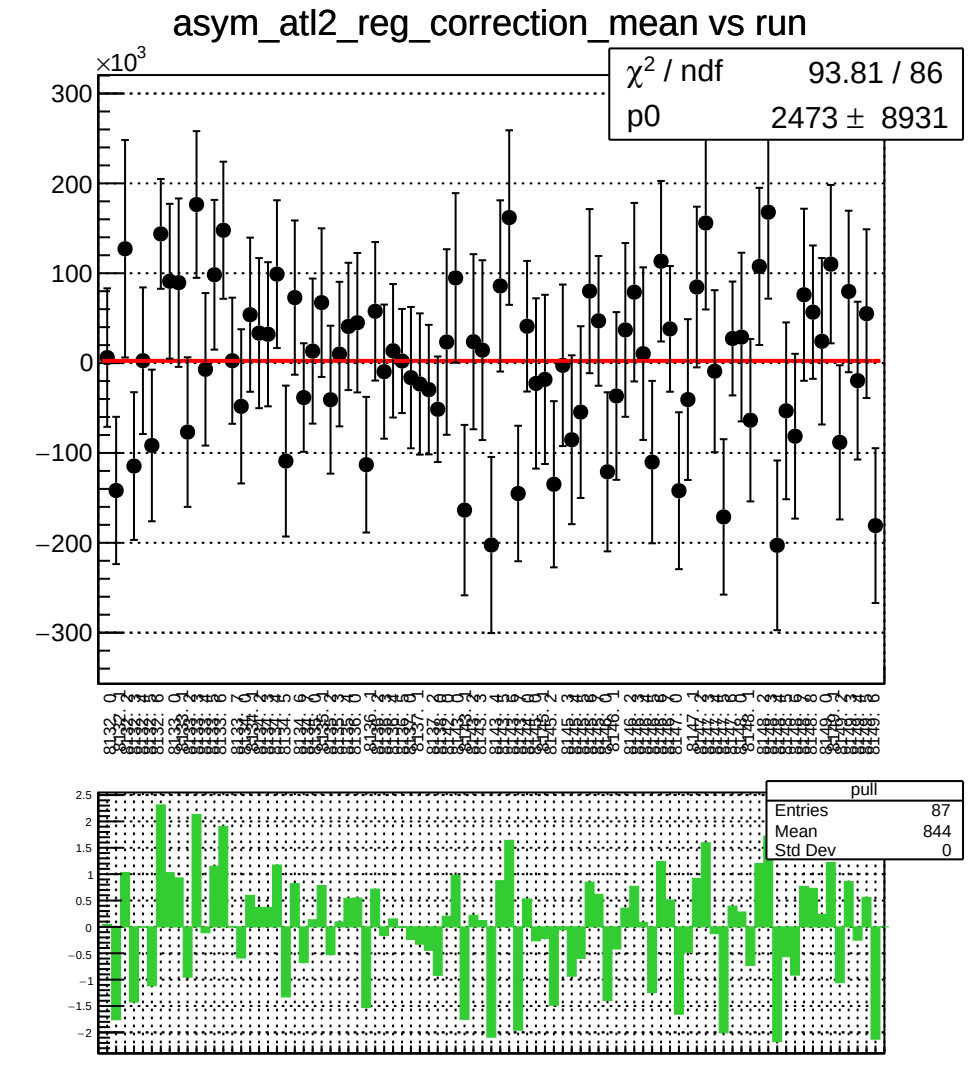

asym_atl1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.81 / 86
p0 1.694e−14 ± 4.802e−14
15
10
5
0
−5
−10
−15
pull
Entries 87
Mean −10.93
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean −0.07253
Std Dev 0.961
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

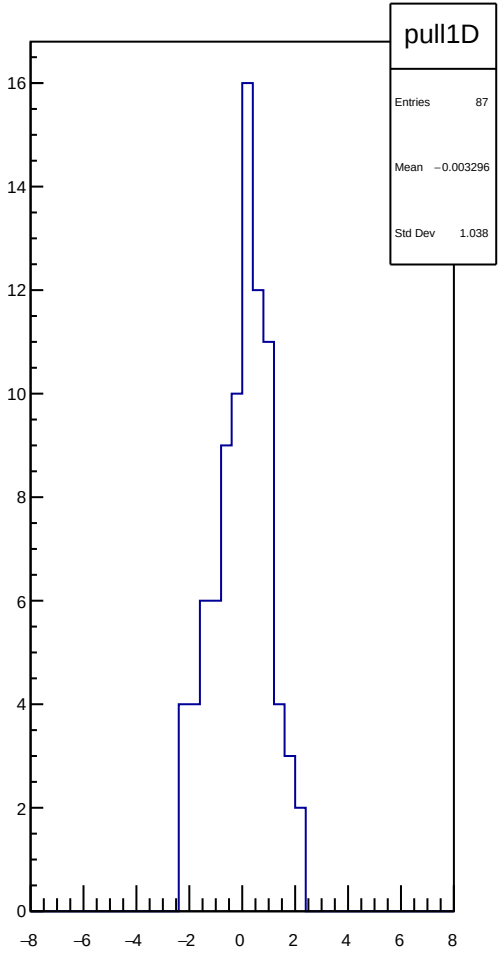

asym_atl1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.444e+05 / 86
p0 3.175e−11 ± 3.396e−14
1
0.8
0.6
0.4
0.2

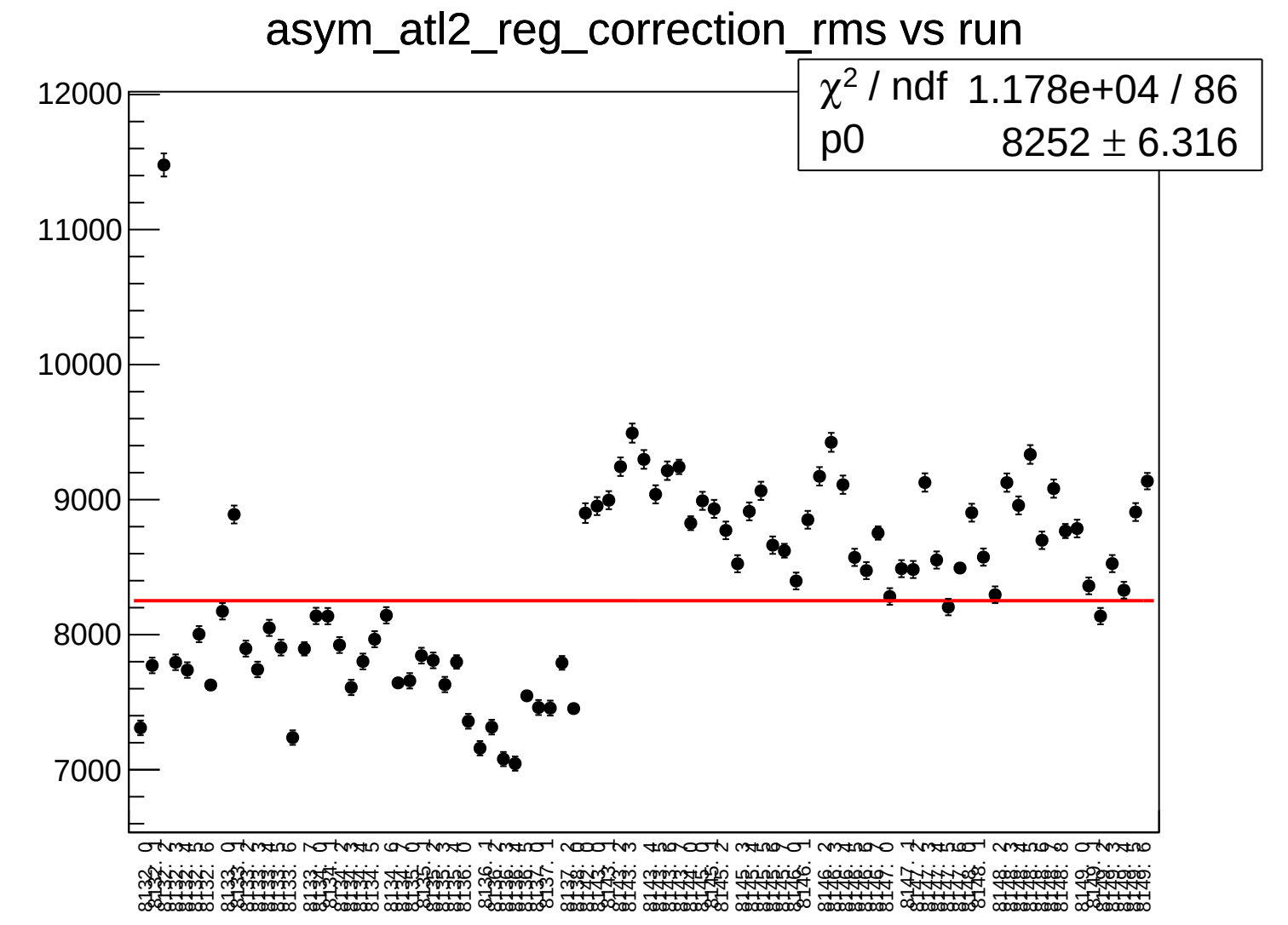

reg_asym_atl2_mean vs run
χ² / ndf 78.9 / 86
p0 3285 ± 2350
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean 212.6
Std Dev 0
2
1
0
−1
−2

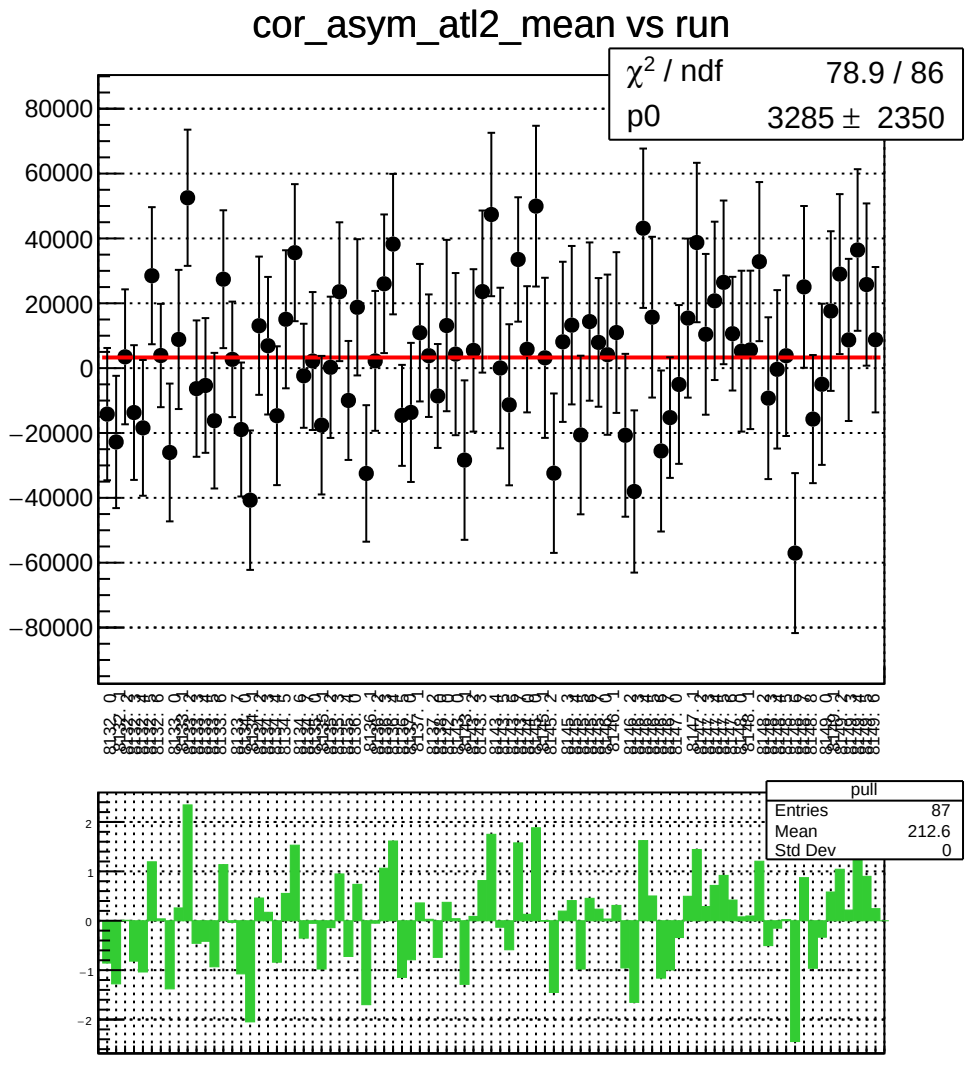

pull1D
Entries 87
Mean 0.0225
Std Dev 0.952
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

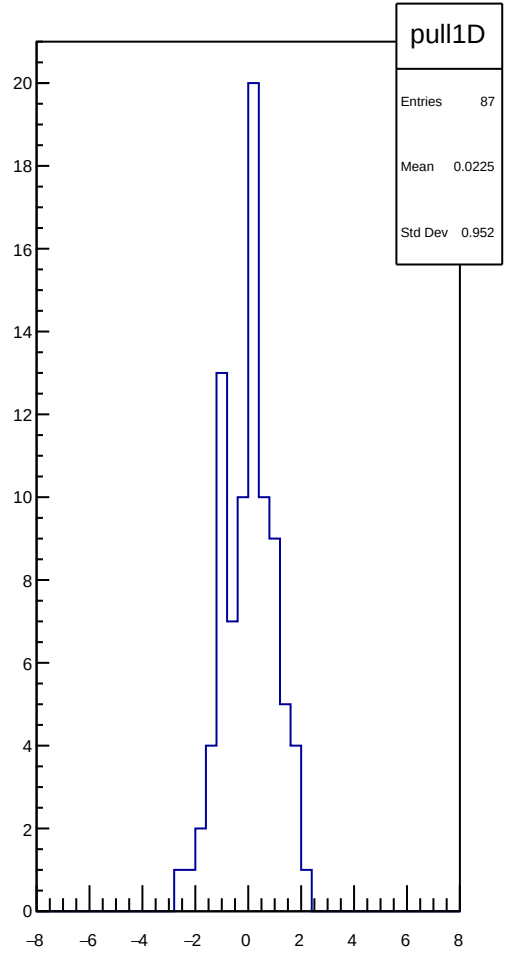

reg_asym_atl2_rms vs run
χ² / ndf 1.057e+04 / 86
p0 2172 ± 1.662
2400
2300
2200
2100
2000
1900

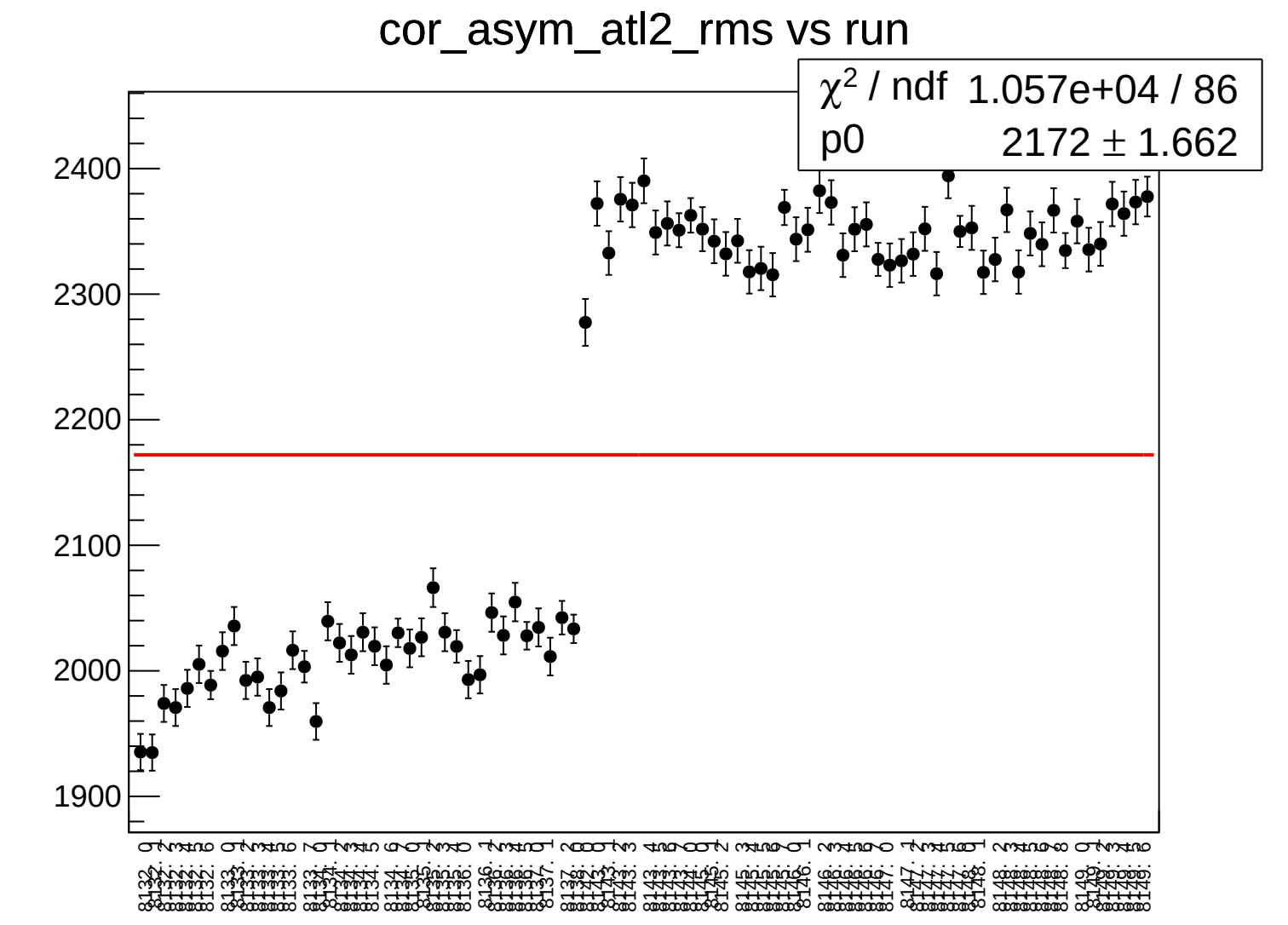

asym_atl2_reg_correction_mean vs run
×10^3
χ² / ndf 93.81 / 86
p0 2473 ± 8931
pull
Entries 87
Mean 844
Std Dev 0

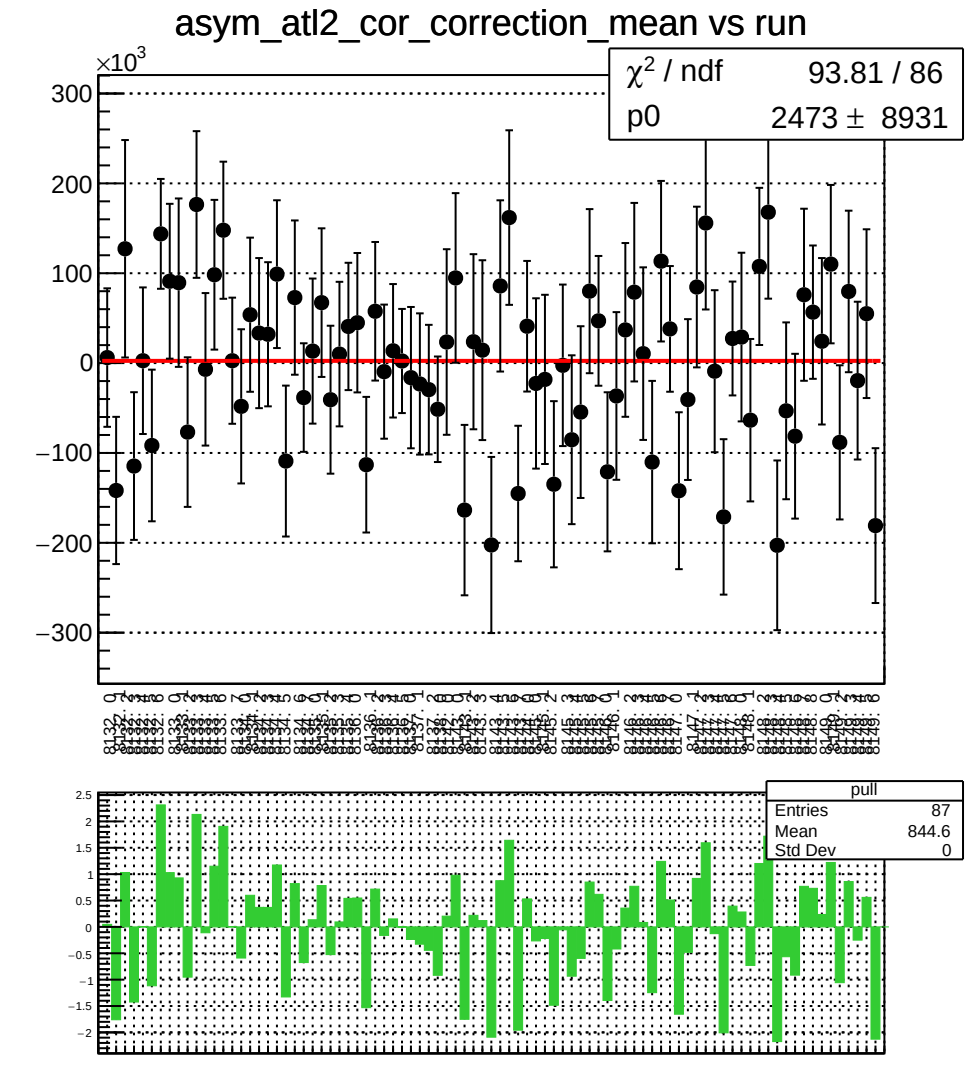

pull1D
Entries 87
Mean −0.003296
Std Dev 1.038

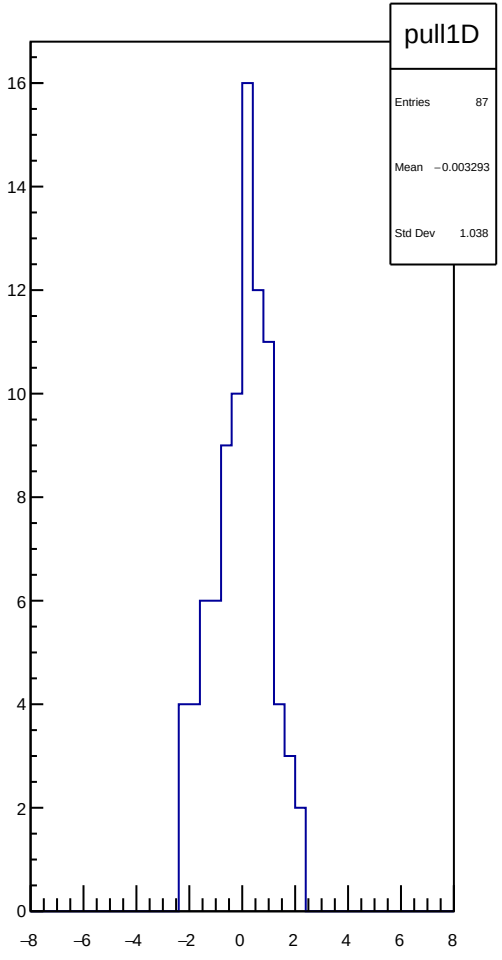

asym_atl2_reg_correction_rms vs run
χ² / ndf 1.178e+04 / 86
p0 8252 ± 6.316
12000
11000
10000
9000
8000
7000

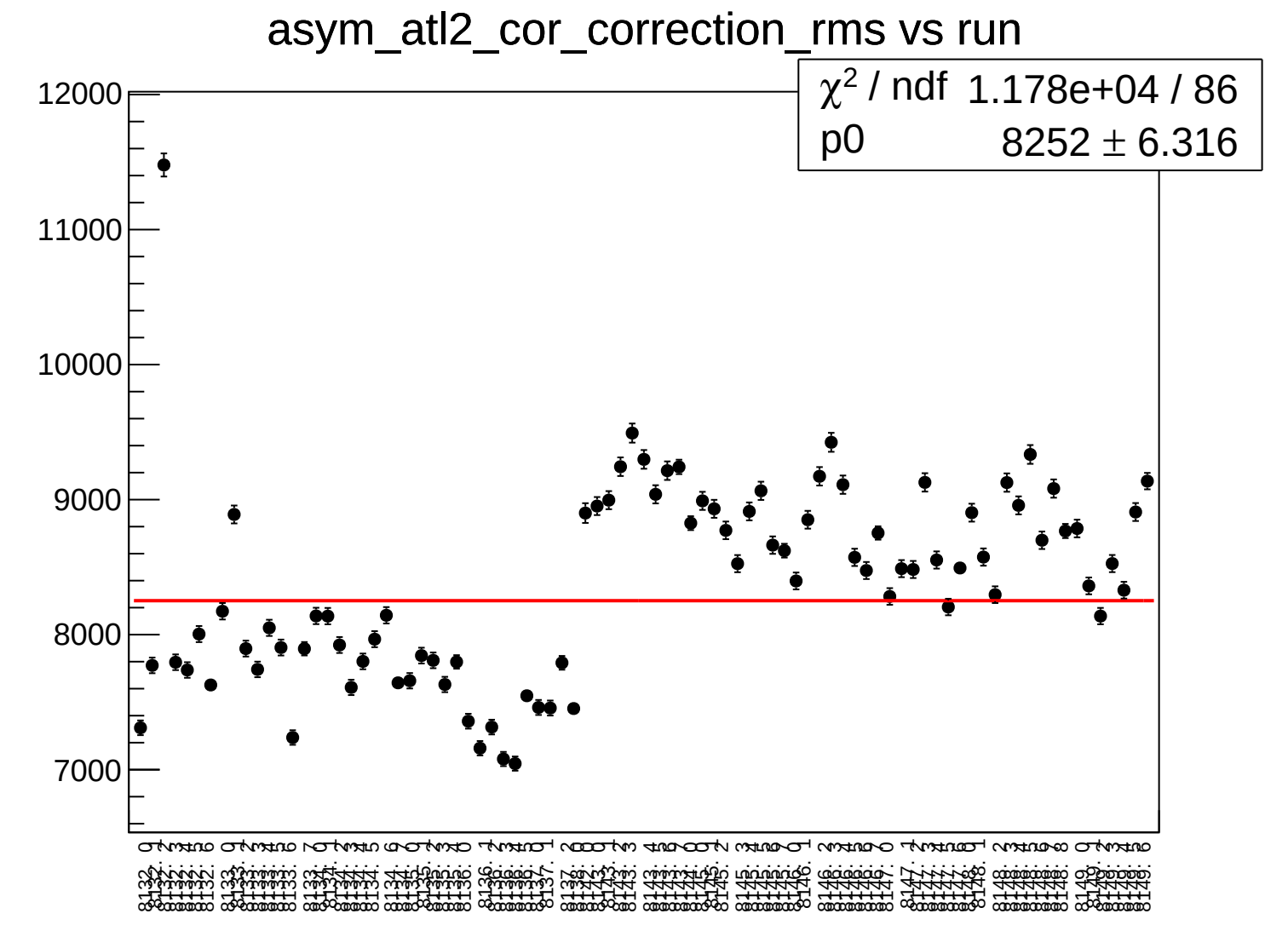

cor_asym_atl2_mean vs run
χ² / ndf 78.9 / 86
p0 3285 ± 2350
pull
Entries 87
Mean 212.6
Std Dev 0

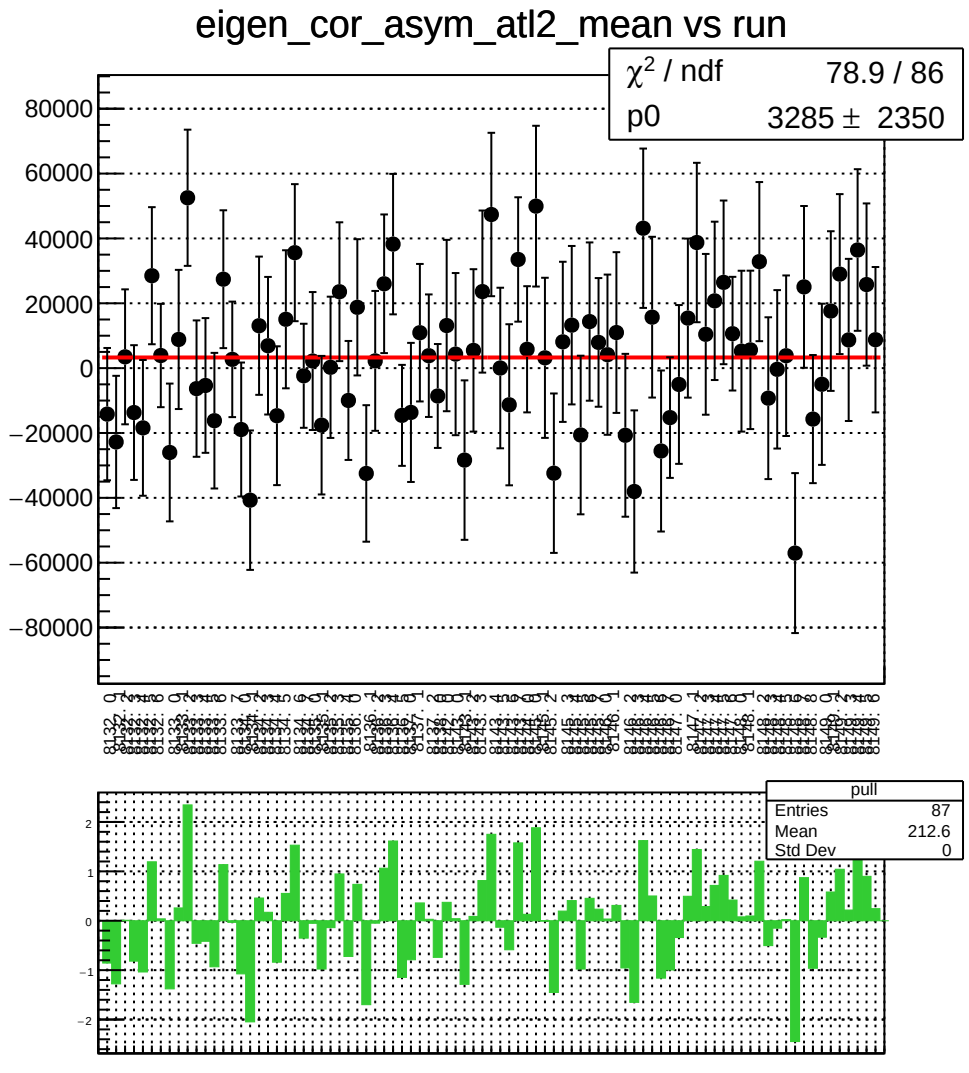

pull1D
Entries 87
Mean 0.0225
Std Dev 0.952

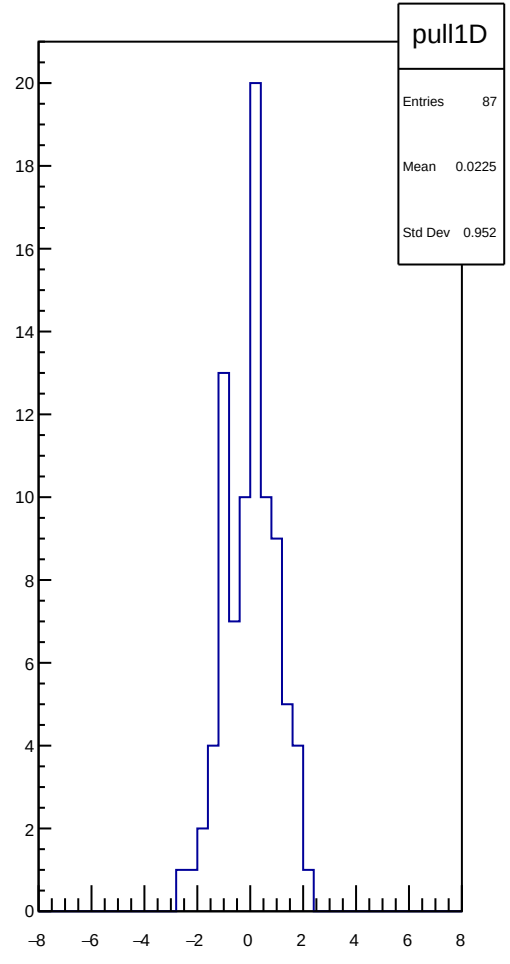

cor_asym_atl2_rms vs run
χ² / ndf 1.057e+04 / 86
p0 2172 ± 1.662
2400
2300
2200
2100
2000
1900

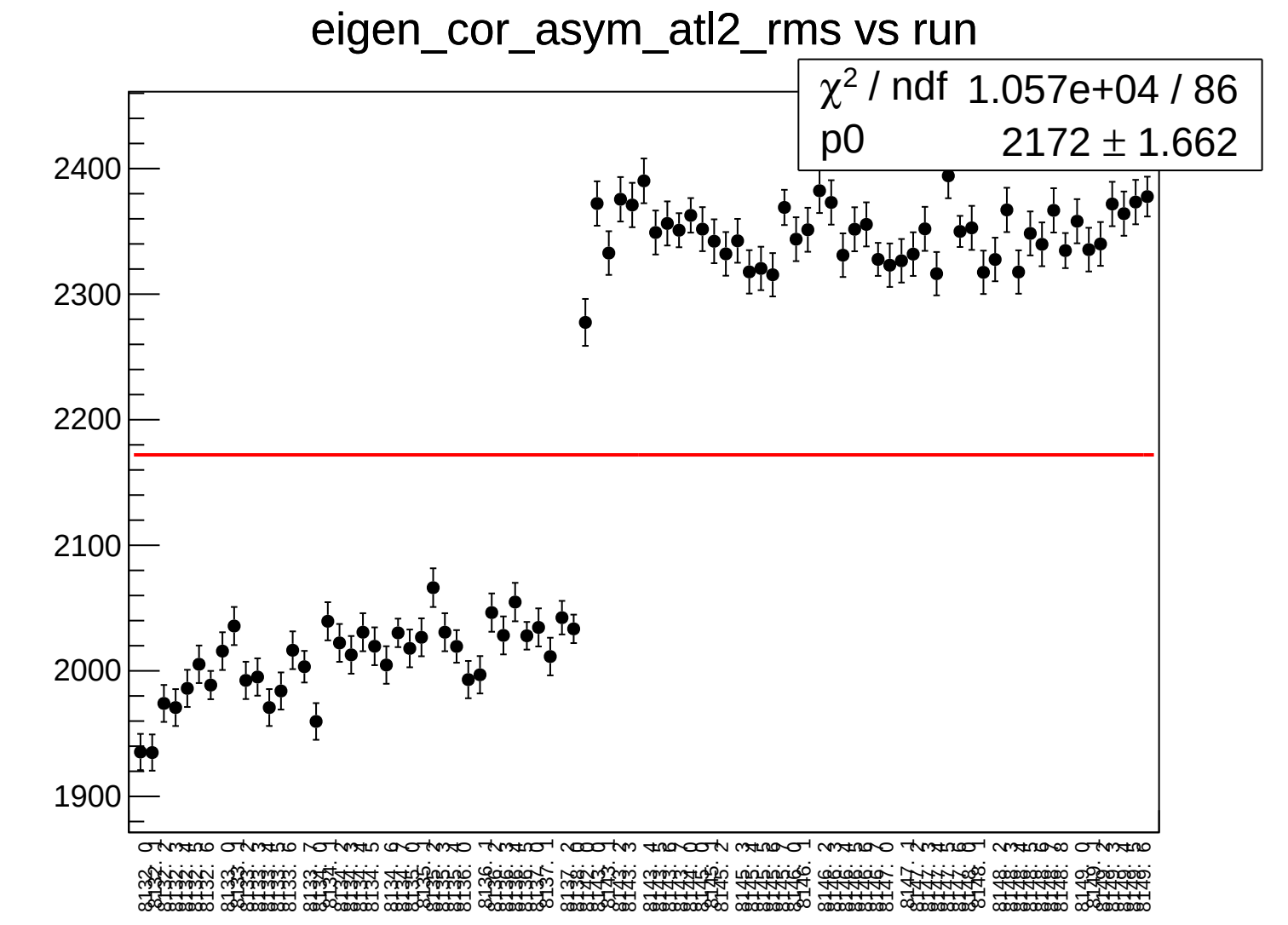

asym_atl2_cor_correction_mean vs run
×10^3
χ² / ndf 93.81 / 86
p0 2473 ± 8931
pull
Entries 87
Mean 844.6
Std Dev 0

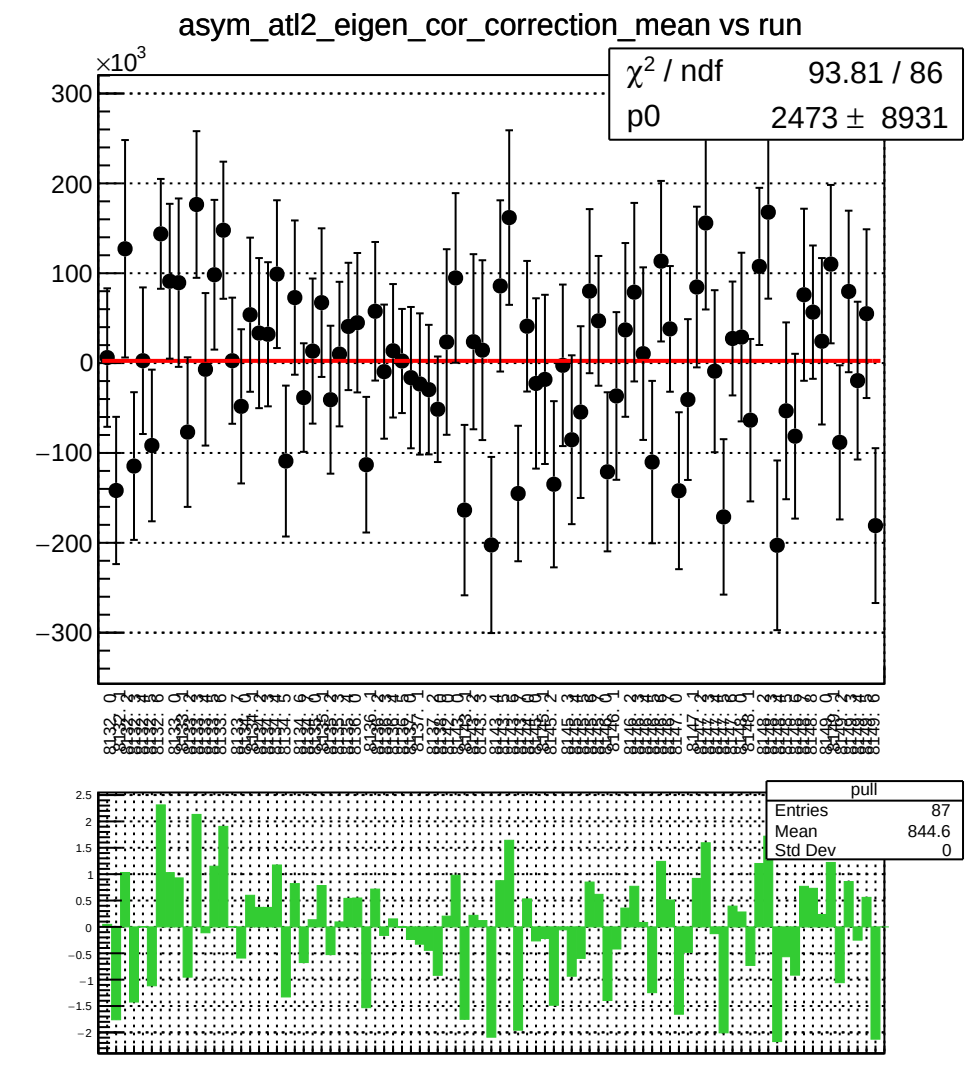

pull1D
Entries 87
Mean −0.003293
Std Dev 1.038

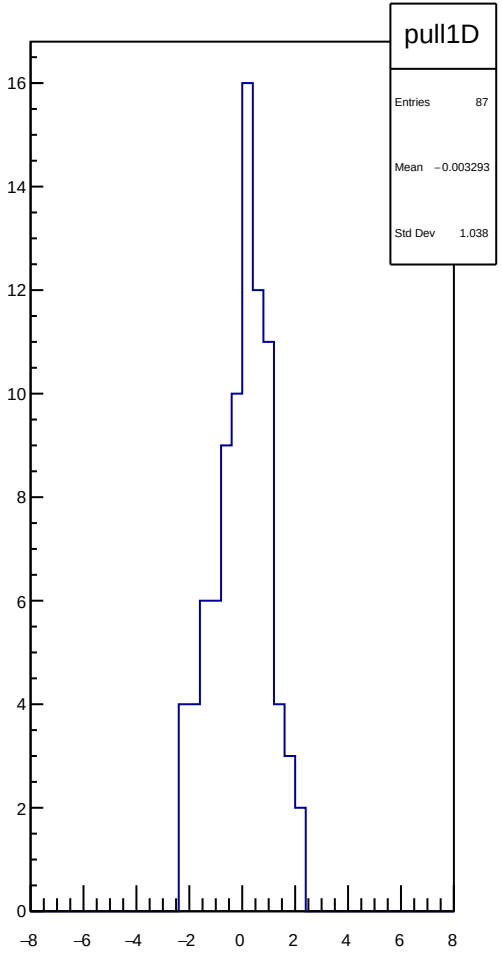

asym_atl2_cor_correction_rms vs run
χ² / ndf 1.178e+04 / 86
p0 8252 ± 6.316
12000
11000
10000
9000
8000
7000

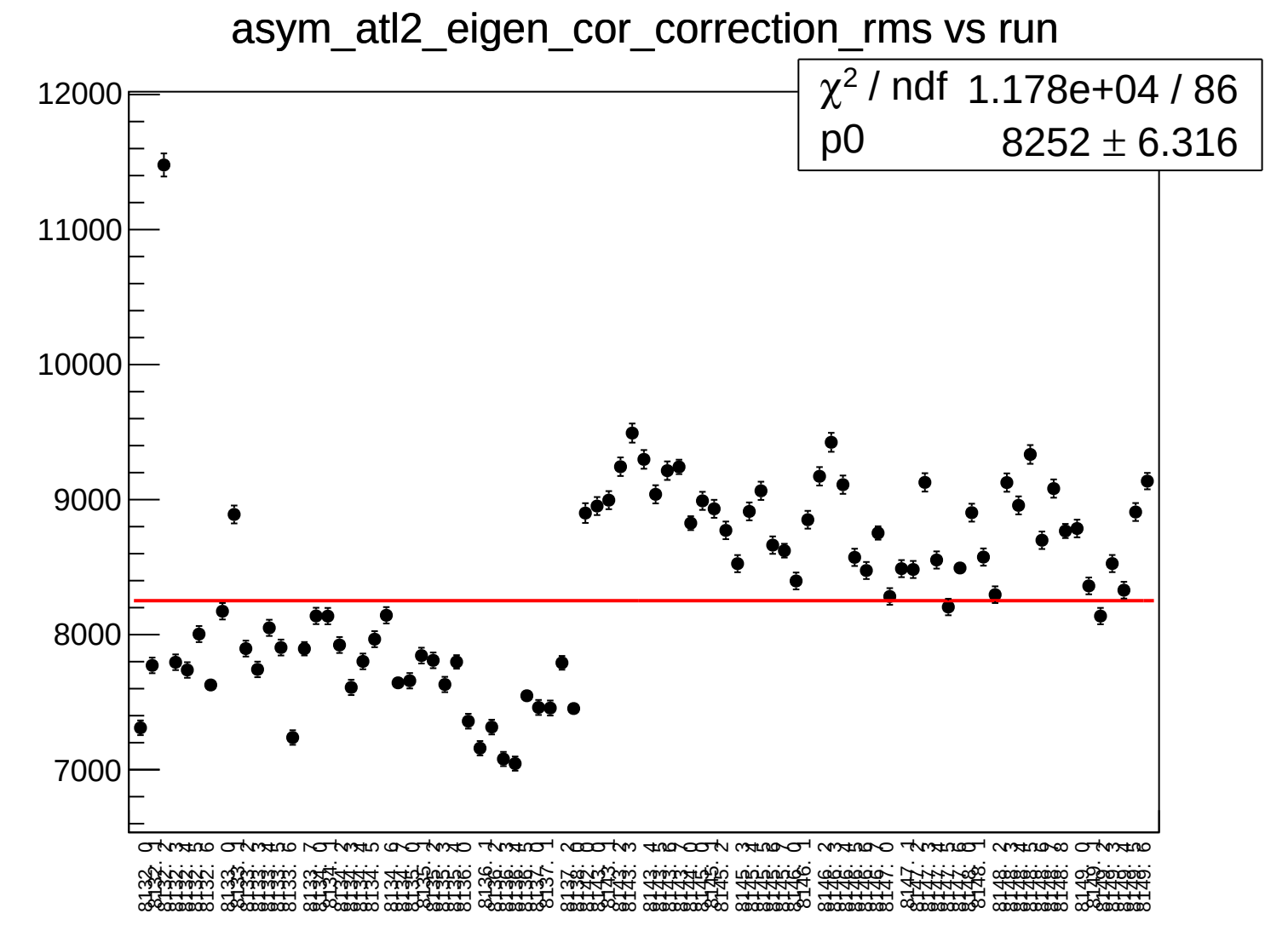

eigen_cor_asym_atl2_mean vs run
χ² / ndf 78.9 / 86
p0 3285 ± 2350
pull
Entries 87
Mean 212.6
Std Dev 0

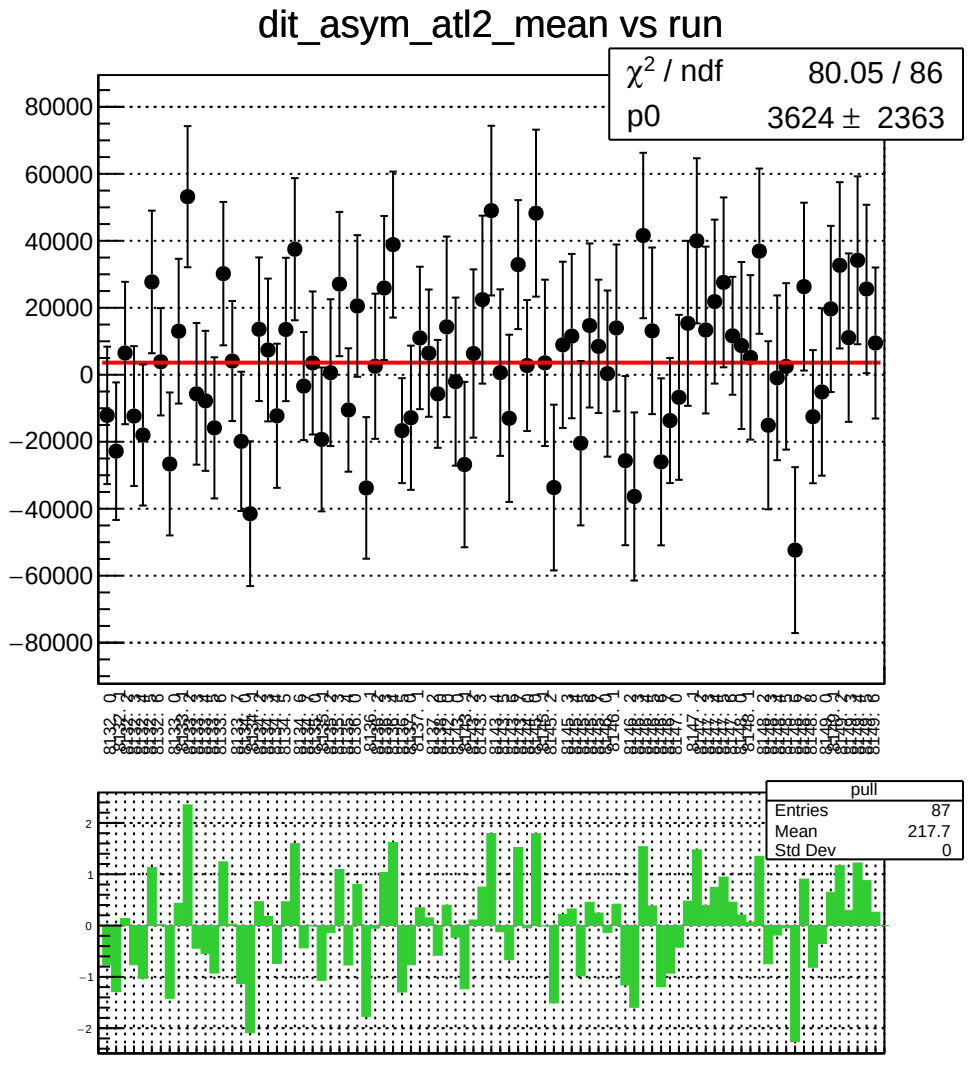

pull1D
Entries 87
Mean 0.0225
Std Dev 0.952

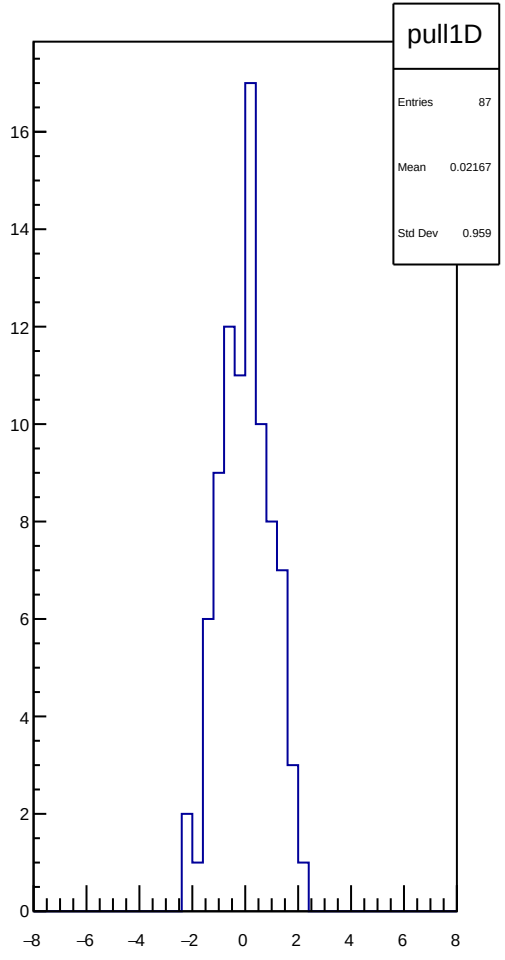

eigen_cor_asym_atl2_rms vs run
χ² / ndf 1.057e+04 / 86
p0 2172 ± 1.662
2400
2300
2200
2100
2000
1900

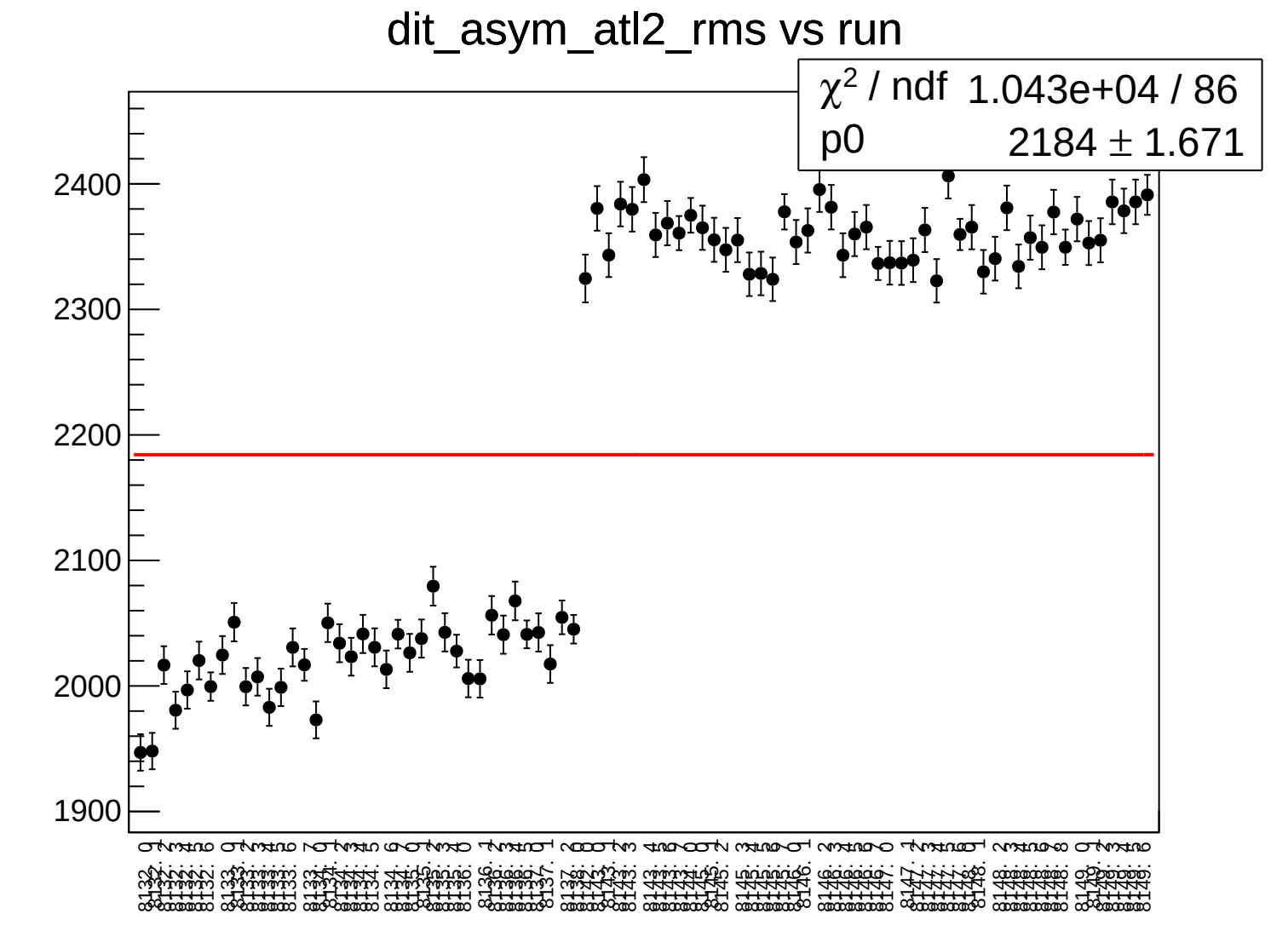

asym_atl2_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 93.81 / 86
p0 2473 ± 8931
pull
Entries 87
Mean 844.6
Std Dev 0

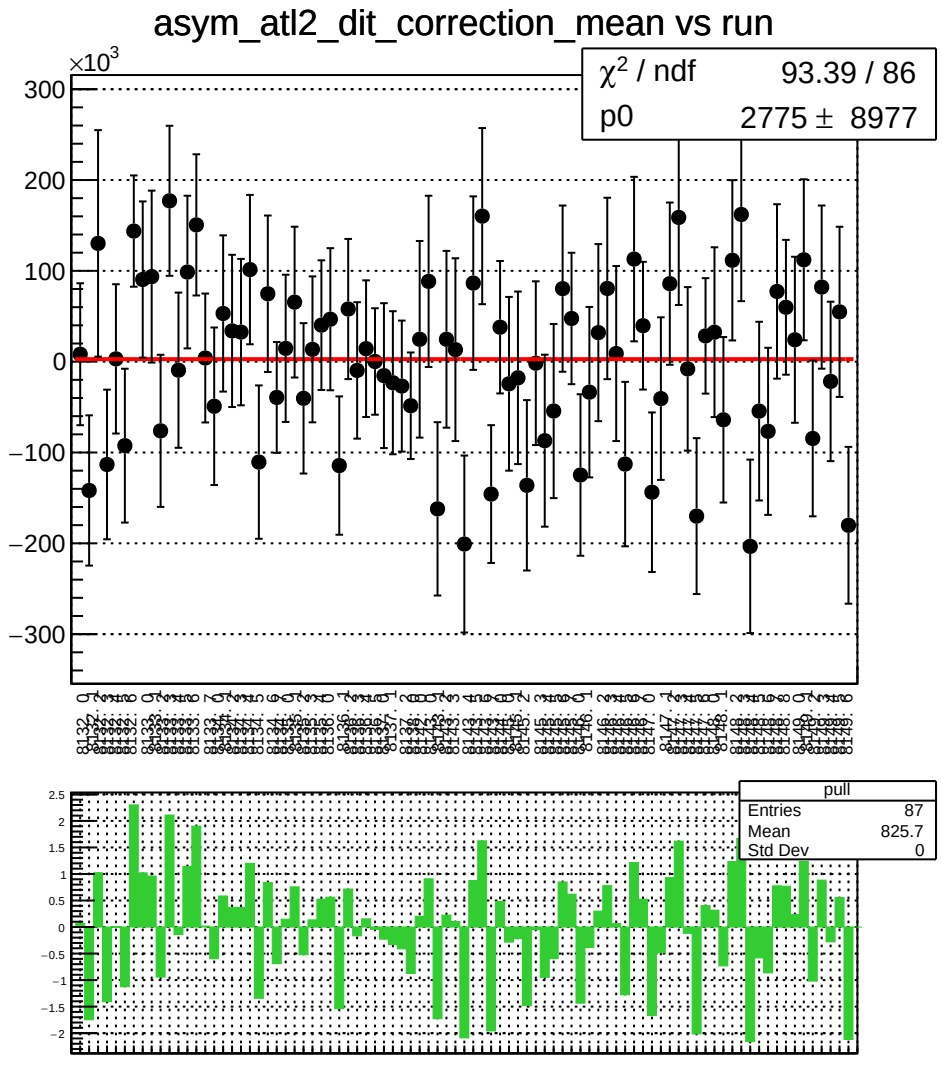

pull1D
Entries 87
Mean −0.003293
Std Dev 1.038

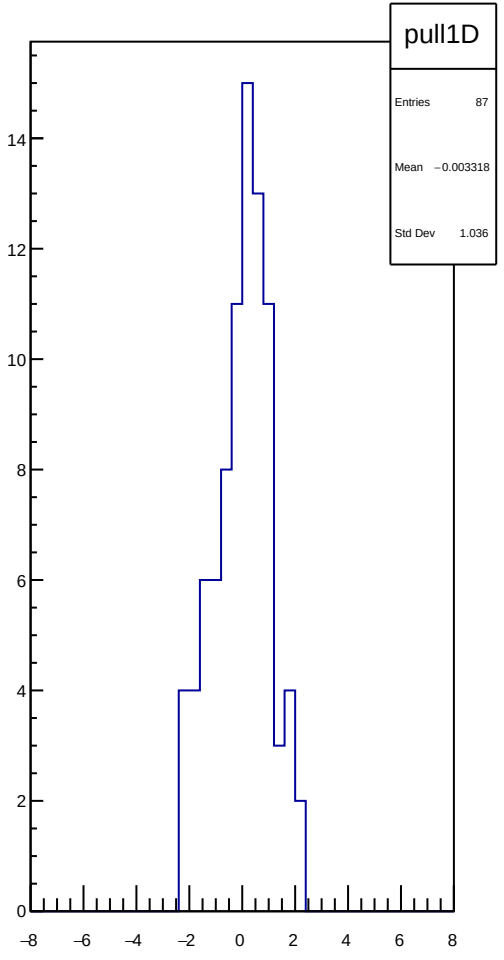

asym_atl2_eigen_cor_correction_rms vs run
χ² / ndf 1.178e+04 / 86
p0 8252 ± 6.316
12000
11000
10000
9000
8000
7000

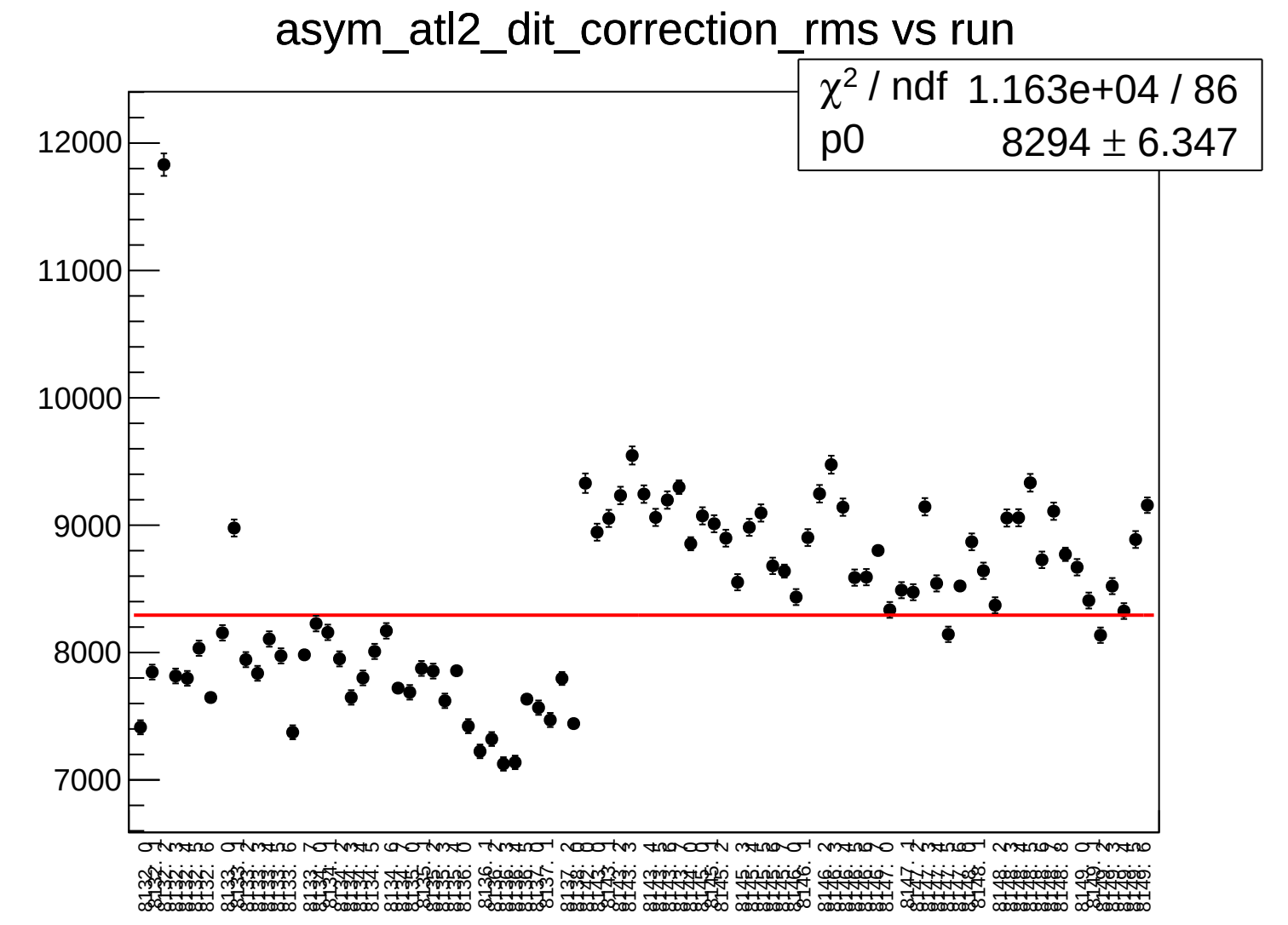

dit_asym_atl2_mean vs run
χ² / ndf 80.05 / 86
p0 3624 ± 2363
pull
Entries 87
Mean 217.7
Std Dev 0

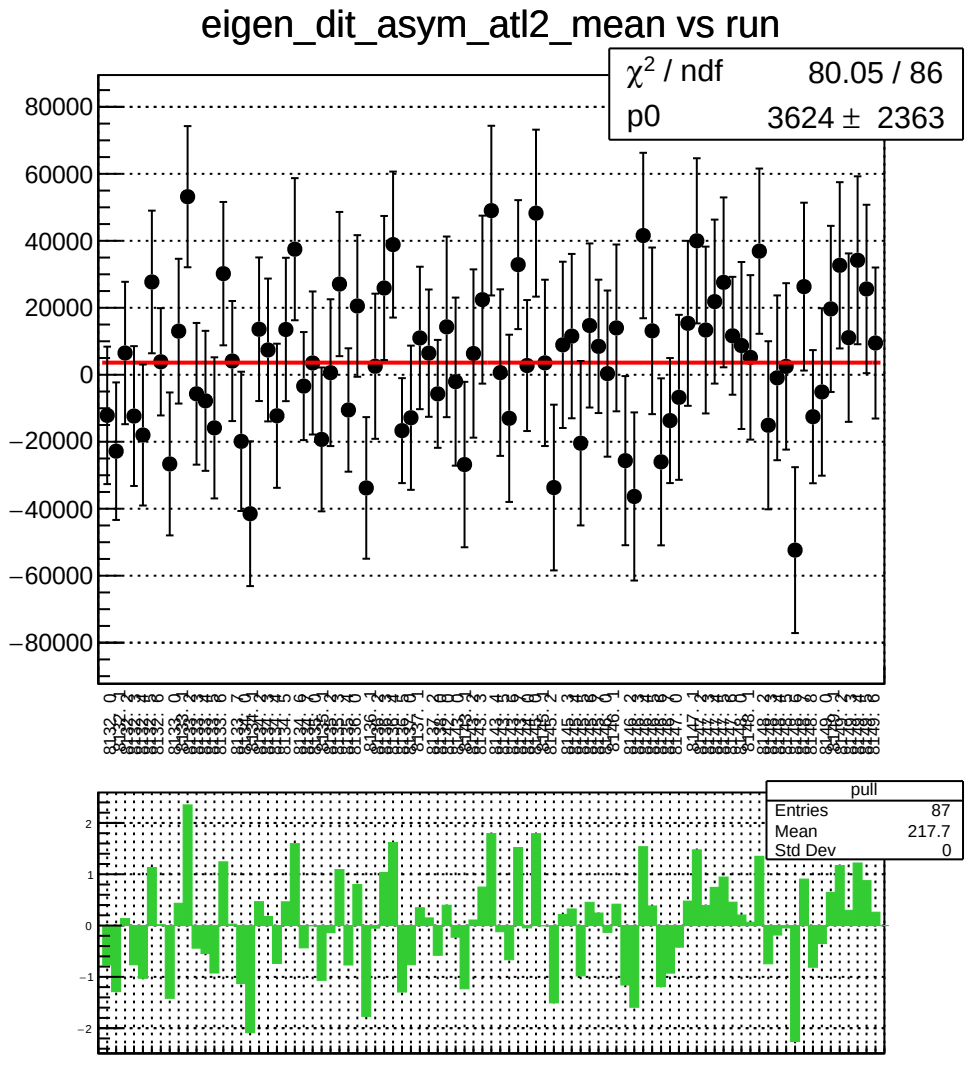

pull1D
Entries 87
Mean 0.02167
Std Dev 0.959

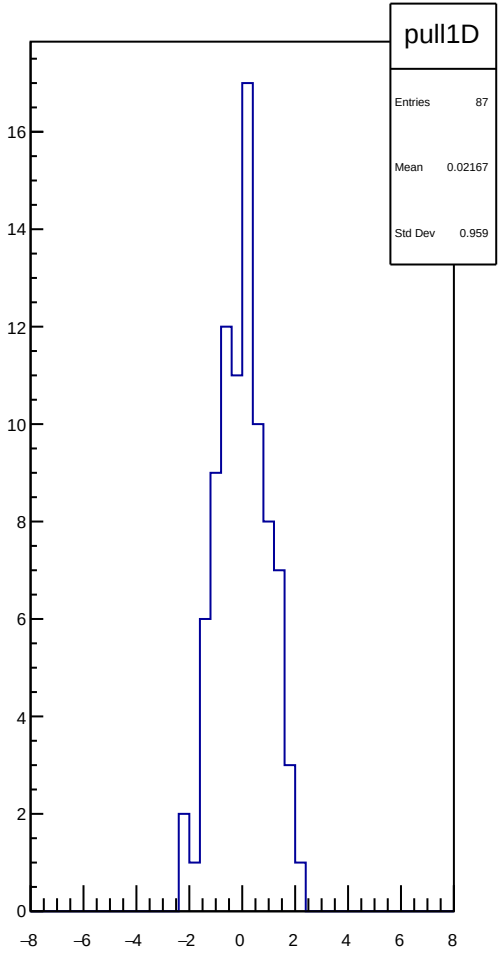

dit_asym_atl2_rms vs run
χ² / ndf 1.043e+04 / 86
p0 2184 ± 1.671
2400
2300
2200
2100
2000
1900

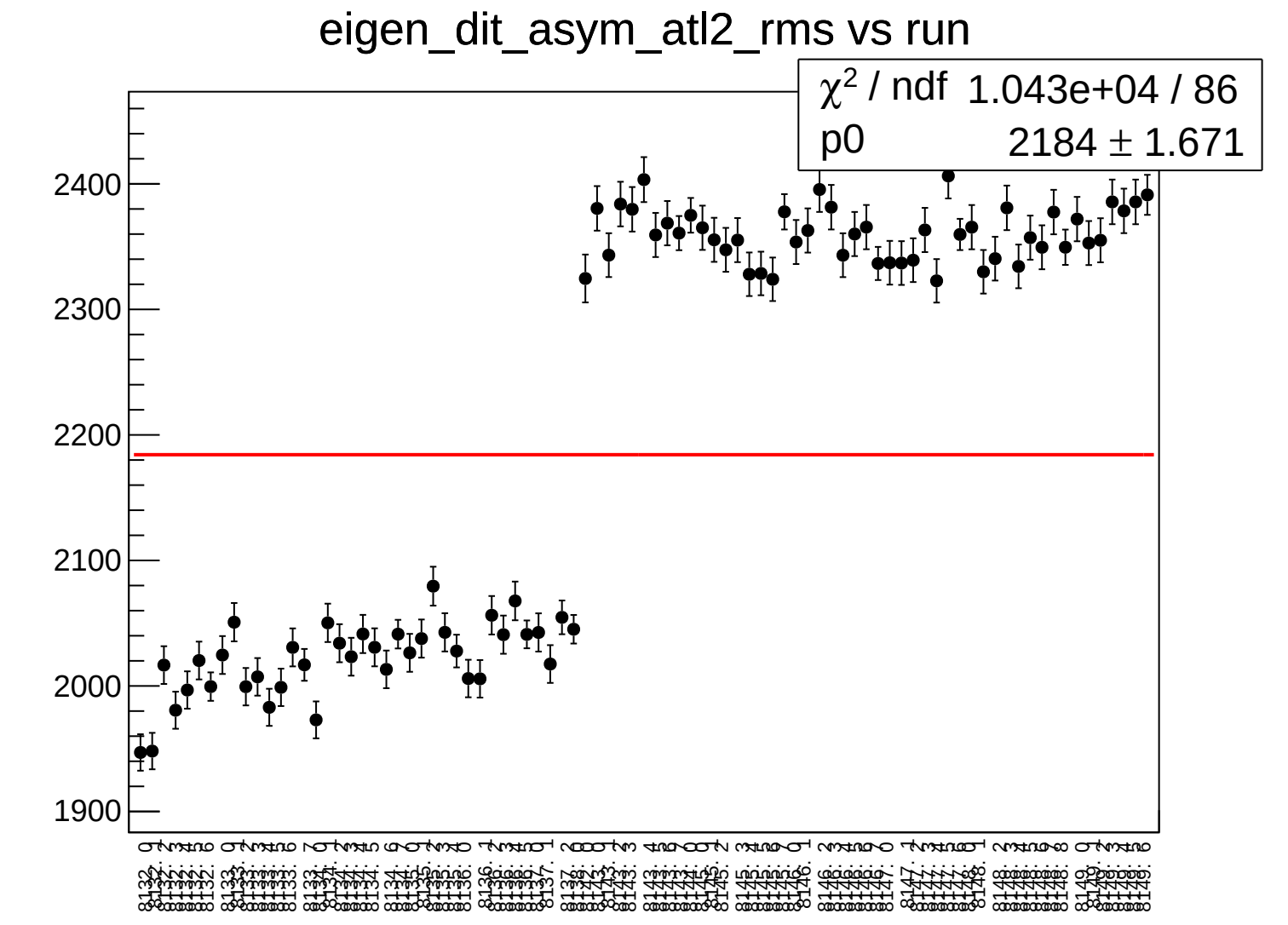

asym_atl2_dit_correction_mean vs run
×10^3
χ² / ndf 93.39 / 86
p0 2775 ± 8977
pull
Entries 87
Mean 825.7
Std Dev 0

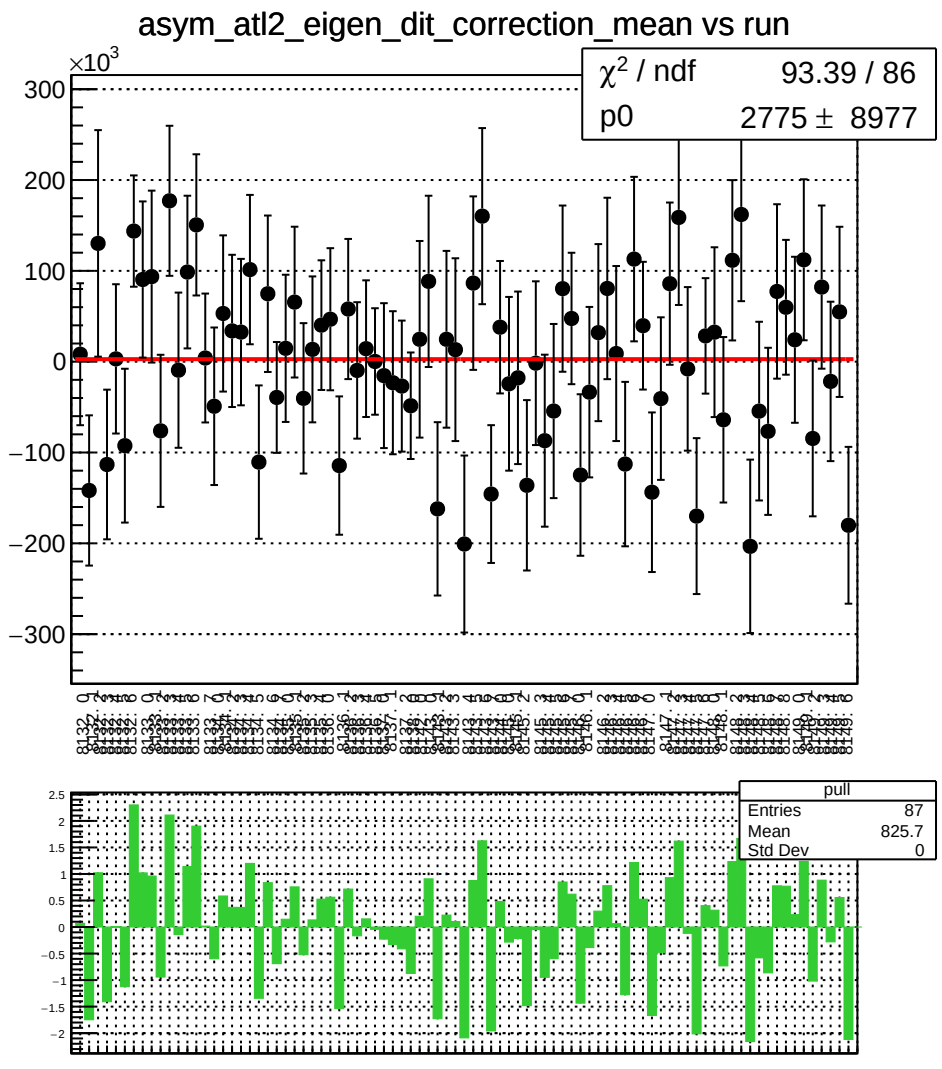

pull1D
Entries 87
Mean −0.003318
Std Dev 1.036

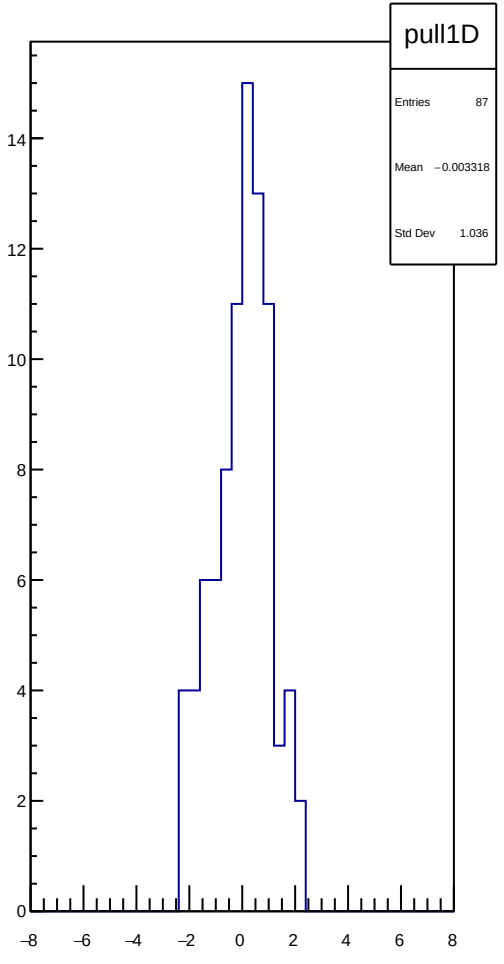

asym_atl2_dit_correction_rms vs run
χ² / ndf 1.163e+04 / 86
p0 8294 ± 6.347
12000
11000
10000
9000
8000
7000

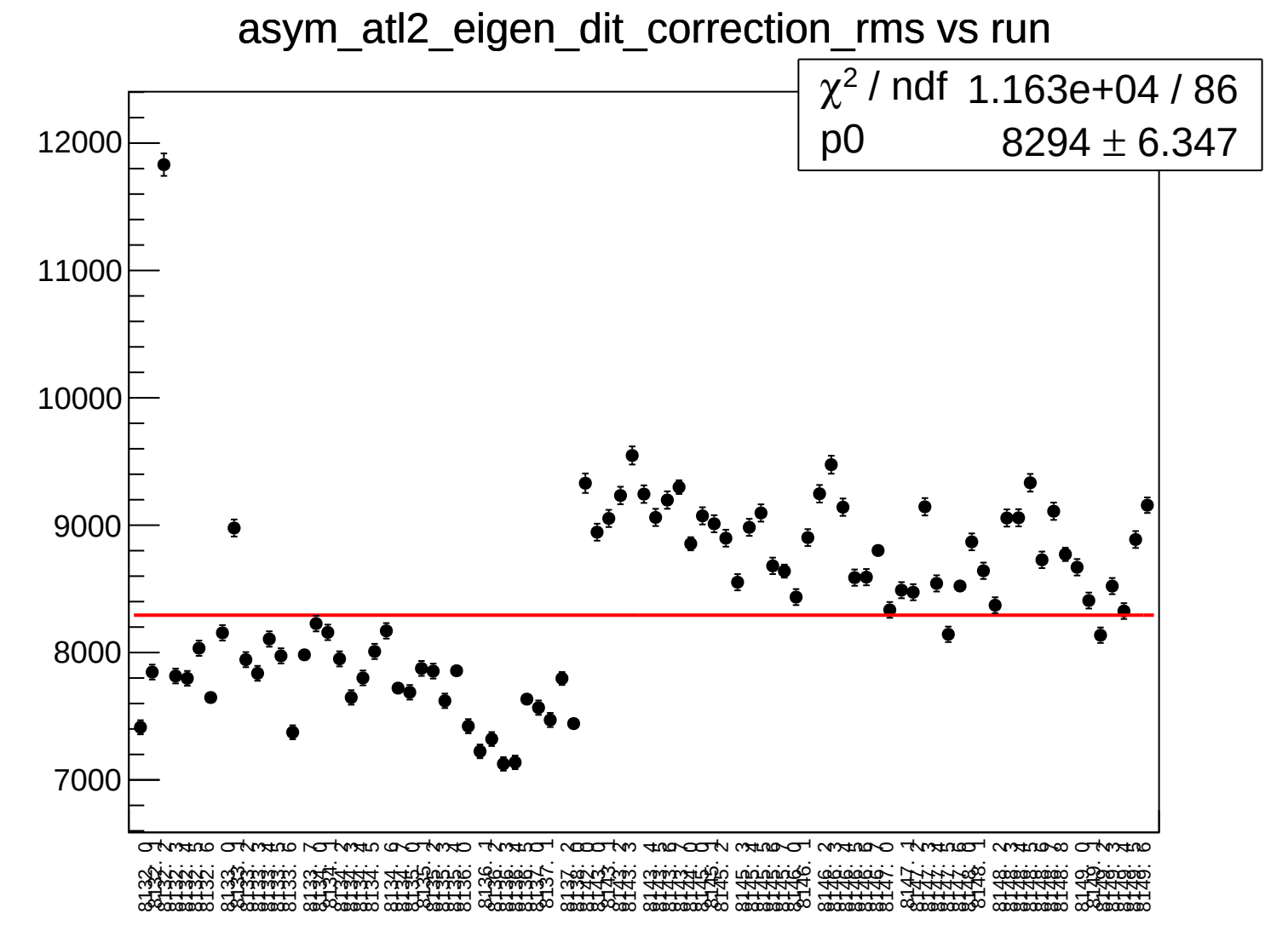

eigen_dit_asym_atl2_mean vs run
χ² / ndf 80.05 / 86
p0 3624 ± 2363
pull
Entries 87
Mean 217.7
Std Dev 0

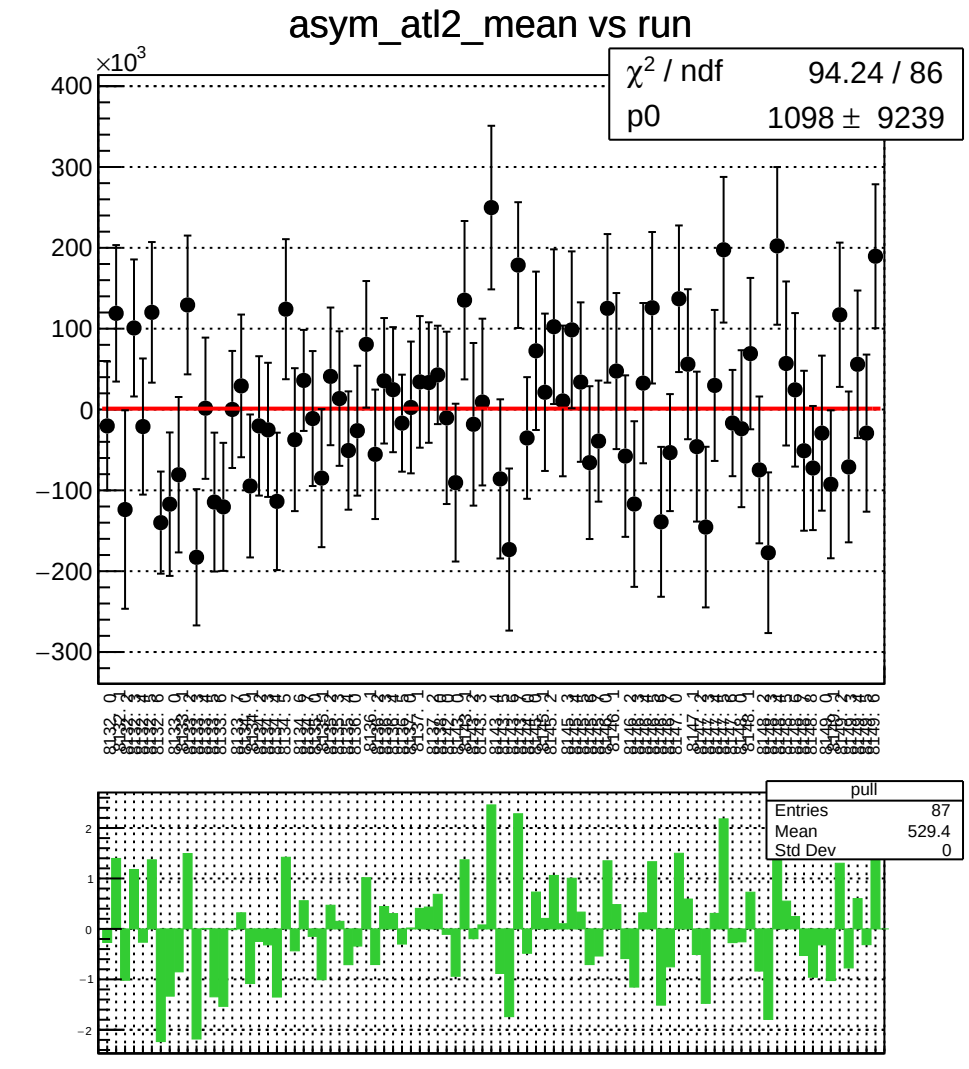

pull1D
Entries 87
Mean 0.02167
Std Dev 0.959

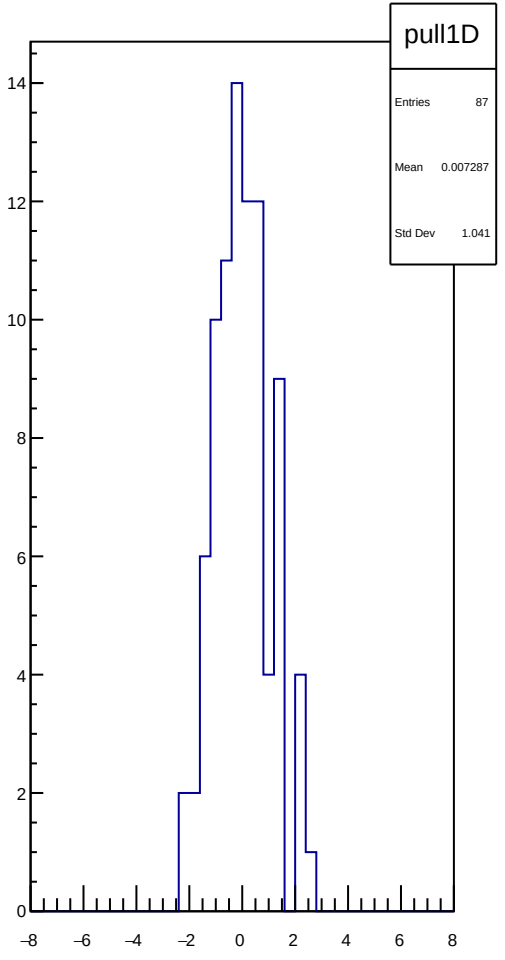

eigen_dit_asym_atl2_rms vs run
χ^2 / ndf 1.043e+04 / 86
p0 2184 ± 1.671
2400
2300
2200
2100
2000
1900

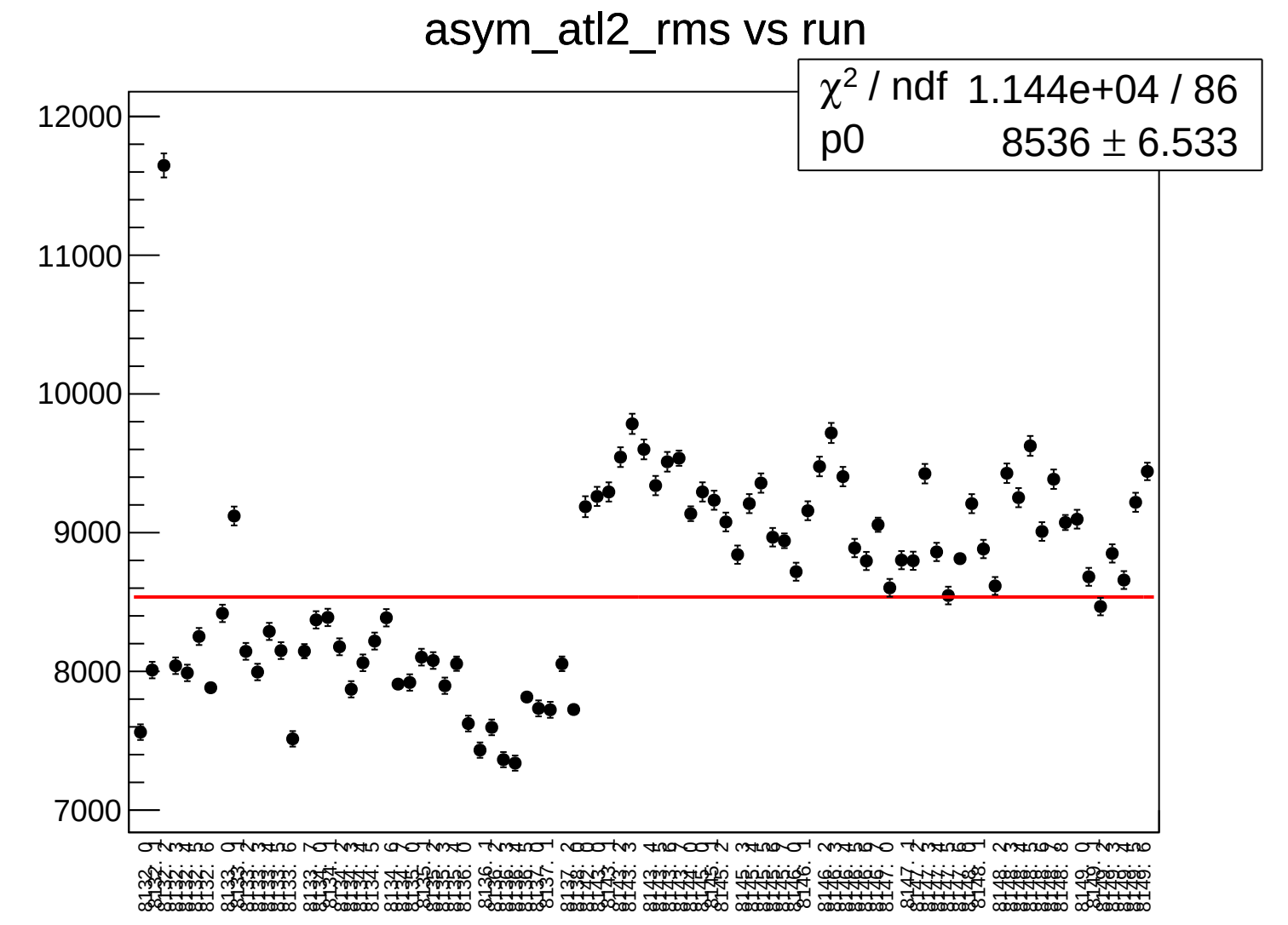

asym_atl2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 93.39 / 86
p0 2775 ± 8977
pull
Entries 87
Mean 825.7
Std Dev 0

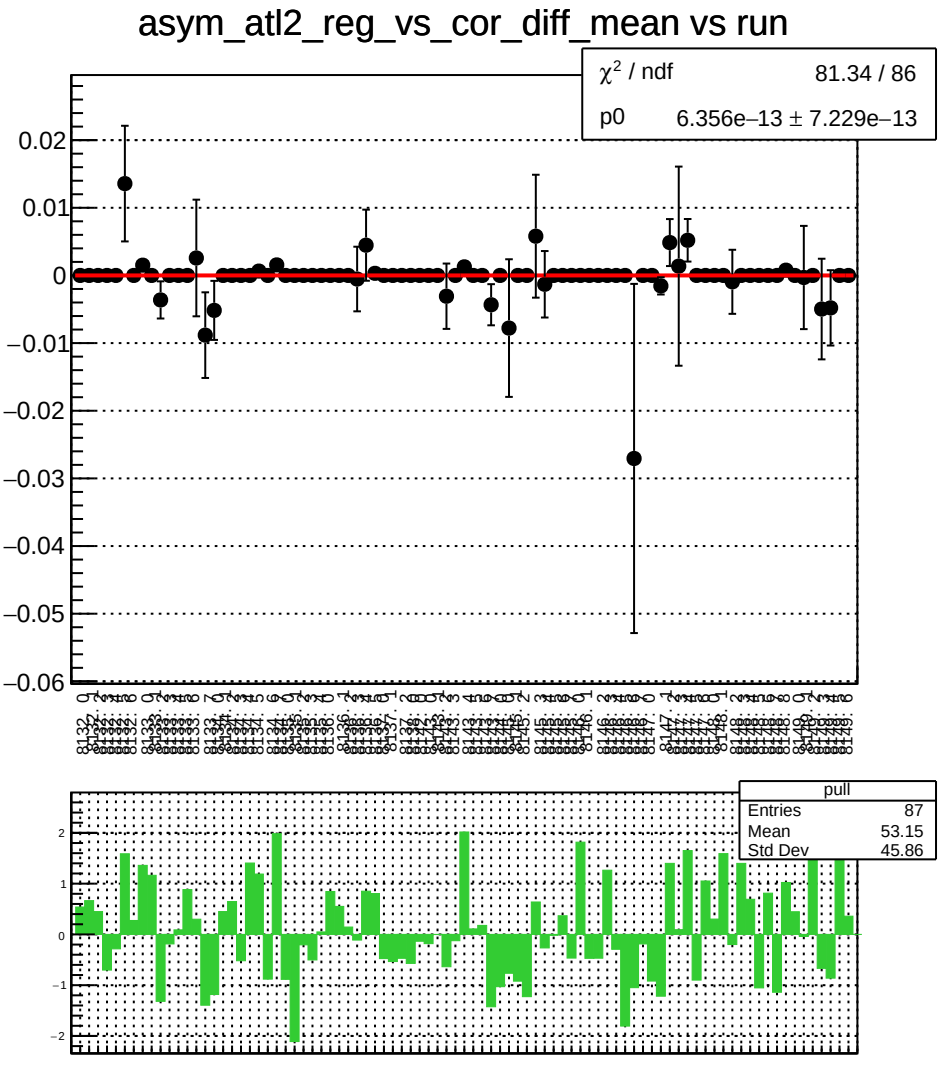

pull1D
Entries 87
Mean −0.003318
Std Dev 1.036

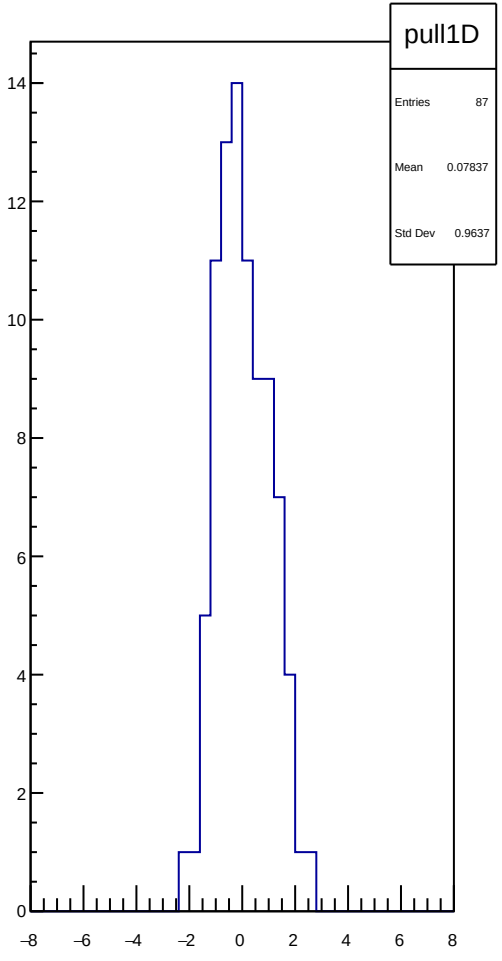

asym_atl2_eigen_dit_correction_rms vs run
χ² / ndf 1.163e+04 / 86
p0 8294 ± 6.347
12000
11000
10000
9000
8000
7000

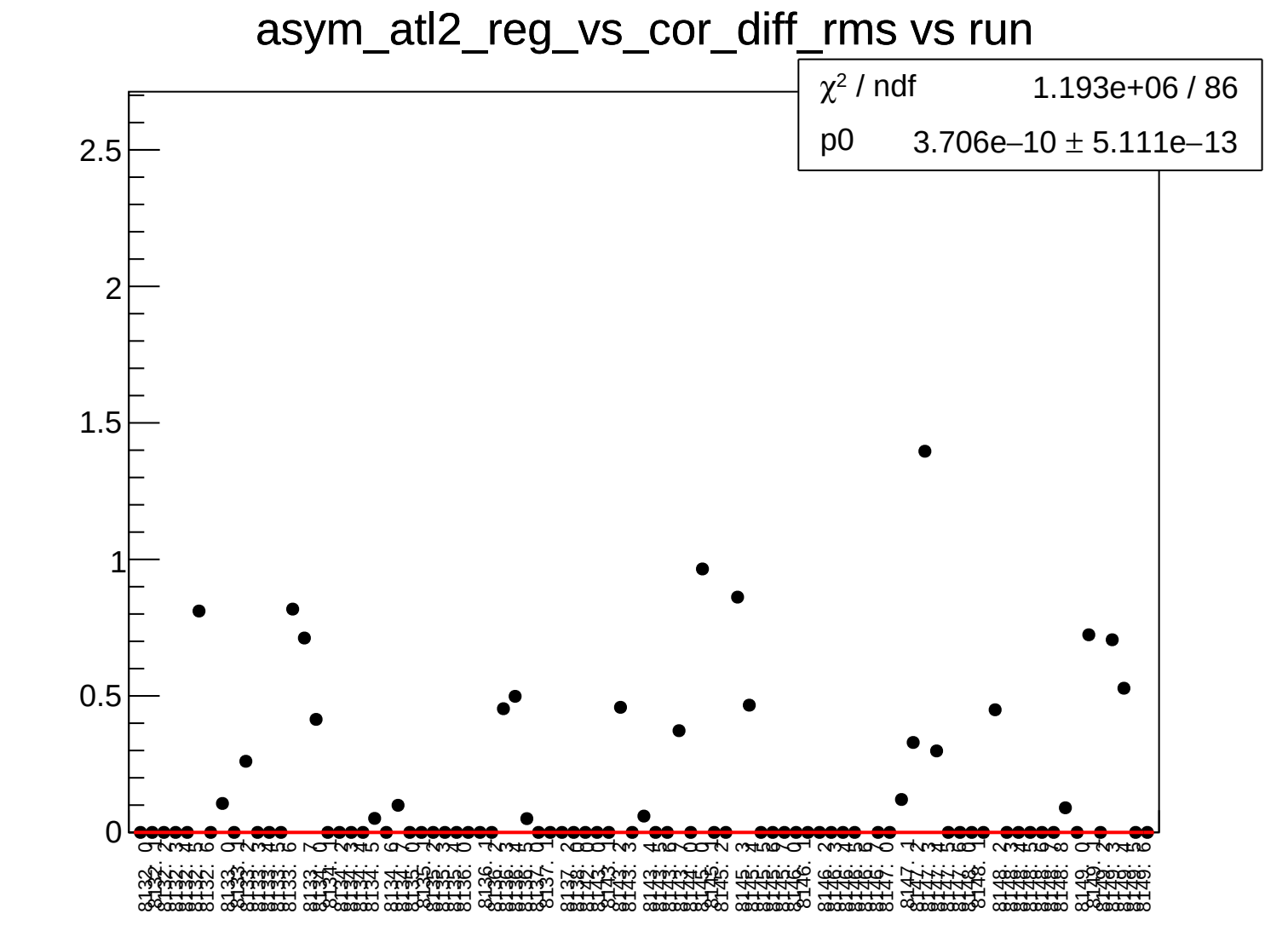

asym_atl2_mean vs run
×10^3
χ^2 / ndf 94.24 / 86
p0 1098 ± 9239
pull
Entries 87
Mean 529.4
Std Dev 0

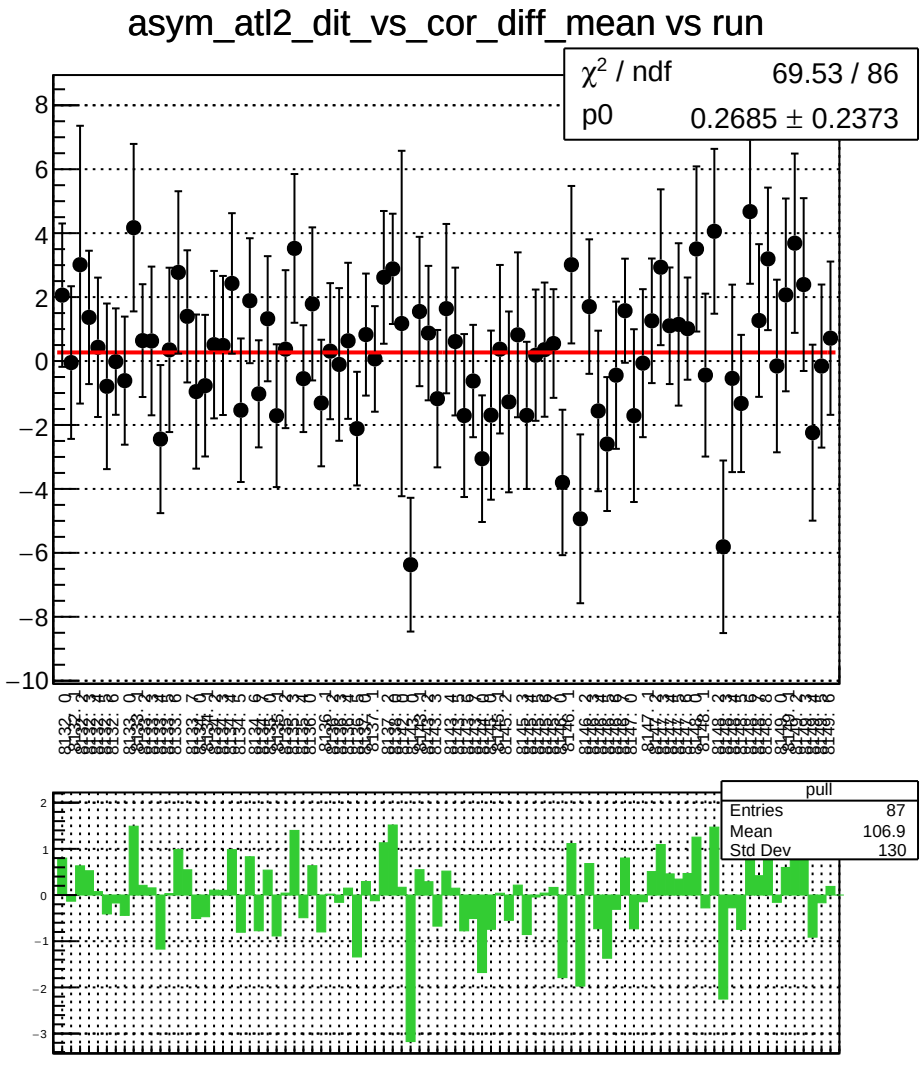

pull1D
Entries 87
Mean 0.007287
Std Dev 1.041

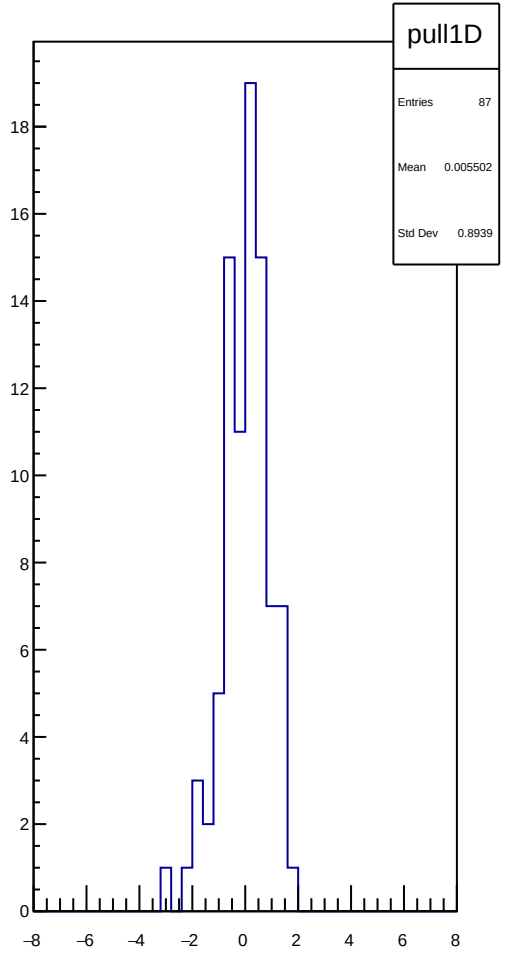

asym_atl2_rms vs run
χ² / ndf 1.144e+04 / 86
p0 8536 ± 6.533
12000
11000
10000
9000
8000
7000

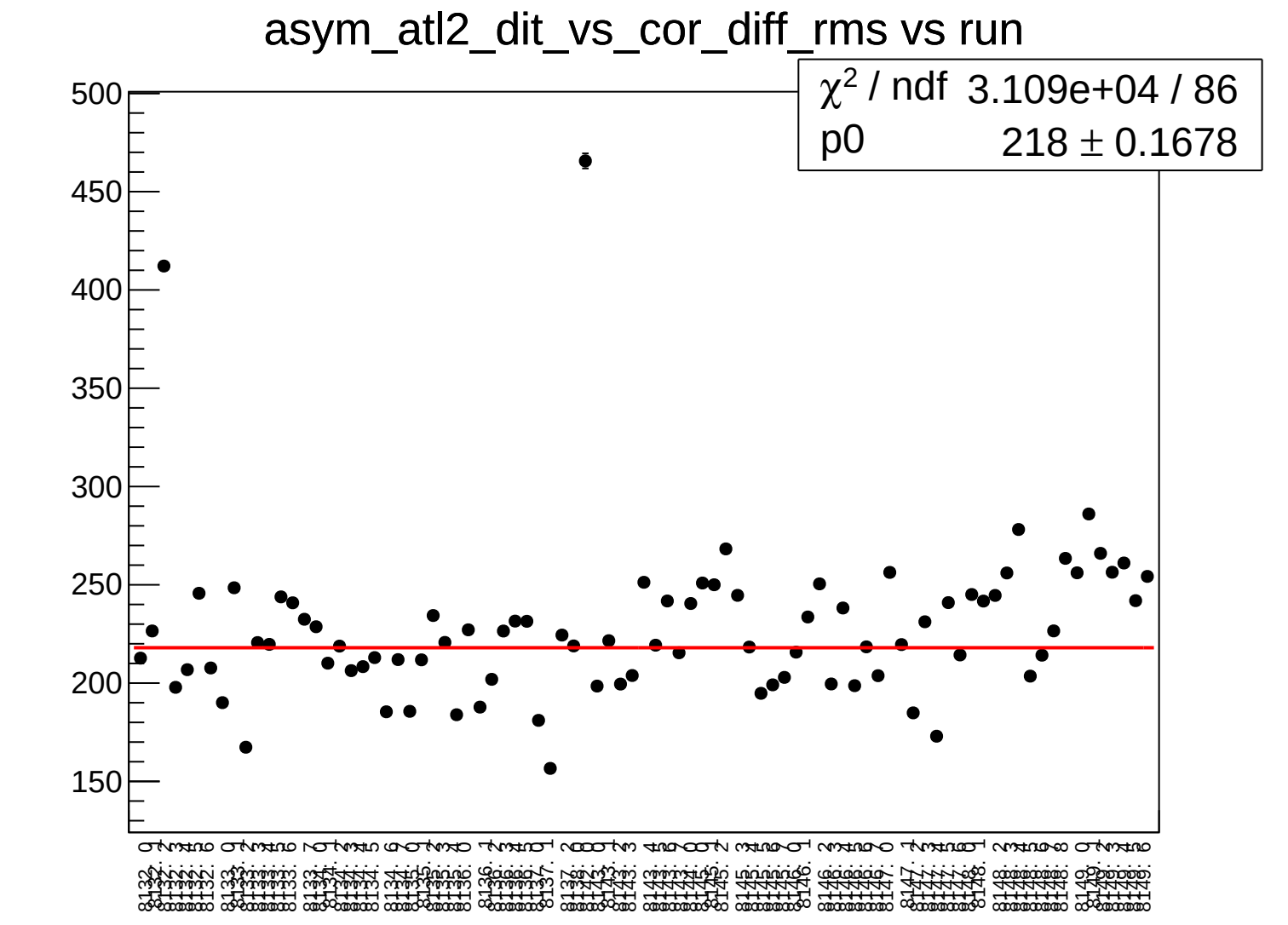

asym_atl2_reg_vs_cor_diff_mean vs run
χ² / ndf 81.34 / 86
p0 6.356e−13 ± 7.229e−13
pull
Entries 87
Mean 53.15
Std Dev 45.86

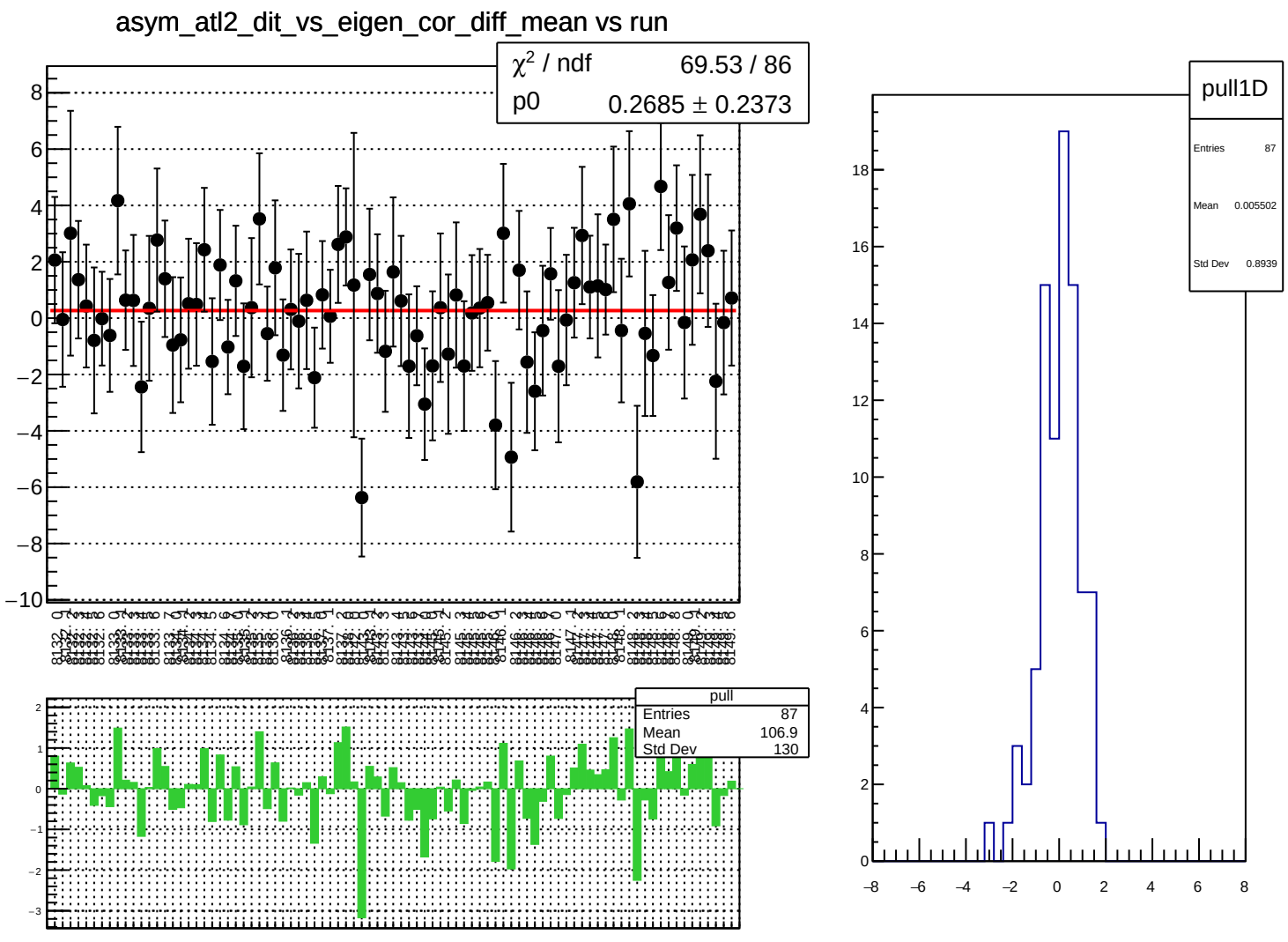

pull1D
Entries 87
Mean 0.07837
Std Dev 0.9637

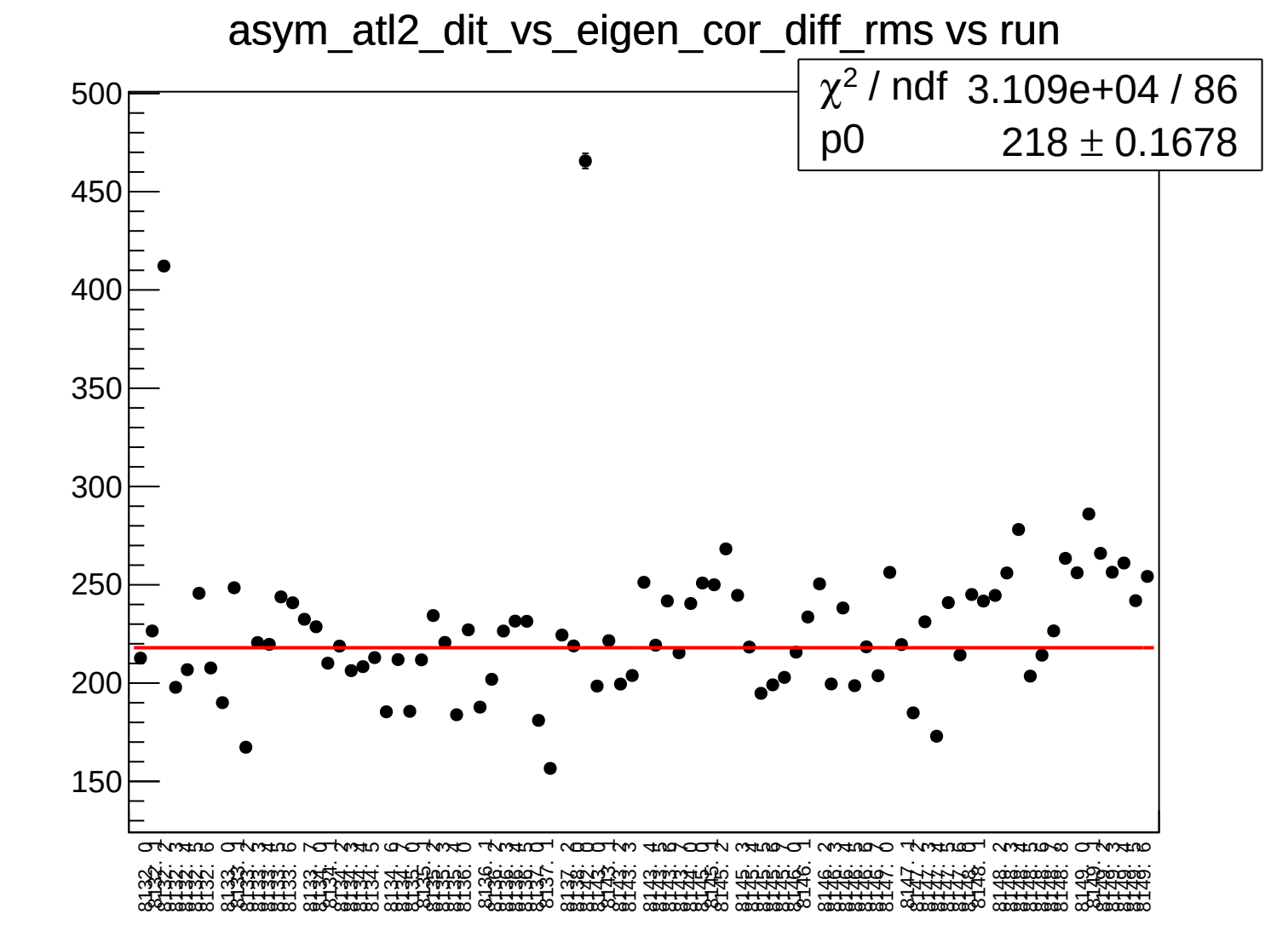

asym_atl2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.193e+06 / 86
p0 3.706e−10 ± 5.111e−13
2.5
2
1.5
1
0.5
0

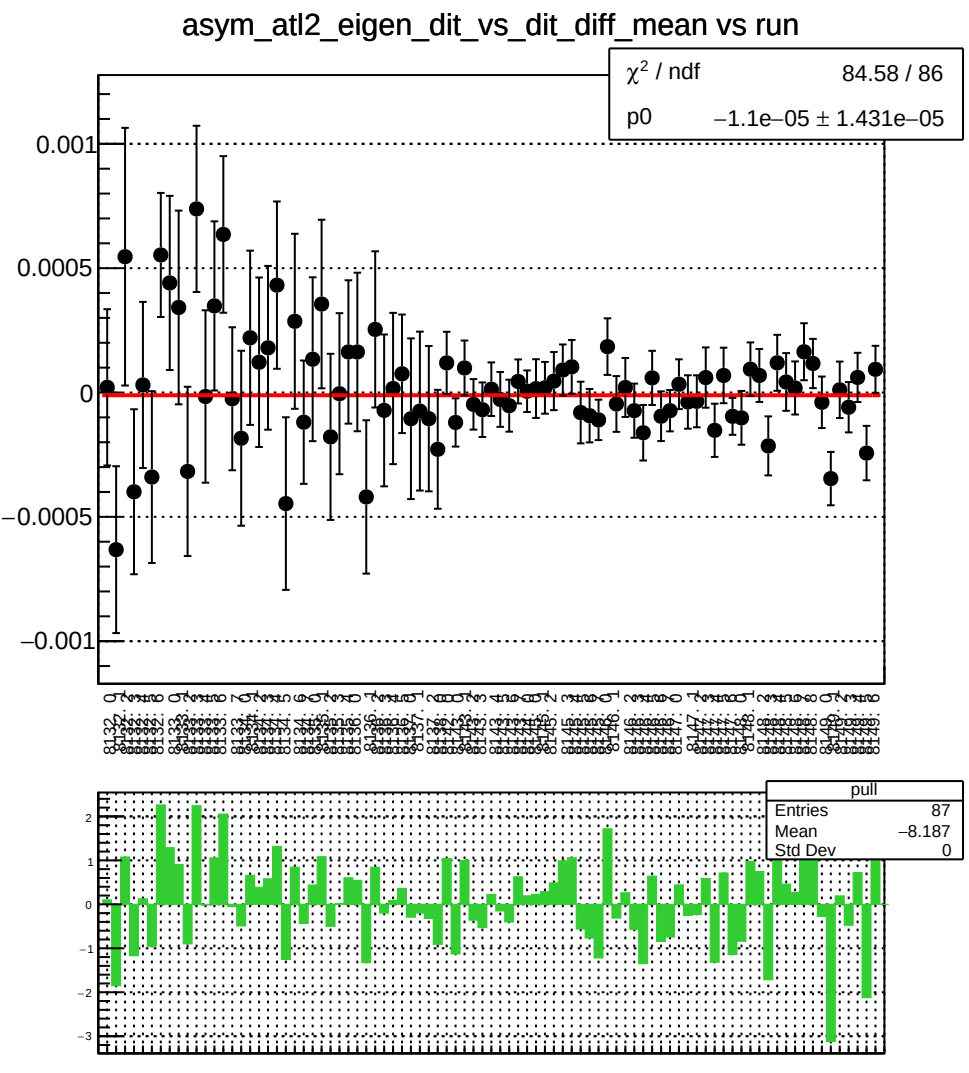

asym_atl2_dit_vs_cor_diff_mean vs run
χ² / ndf 69.53 / 86
p0 0.2685 ± 0.2373
pull
Entries 87
Mean 106.9
Std Dev 130

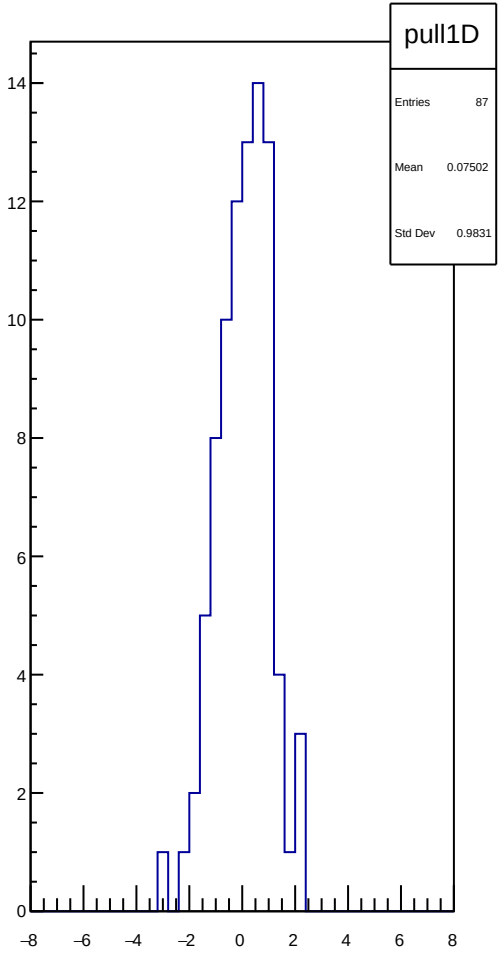

pull1D
Entries 87
Mean 0.005502
Std Dev 0.8939

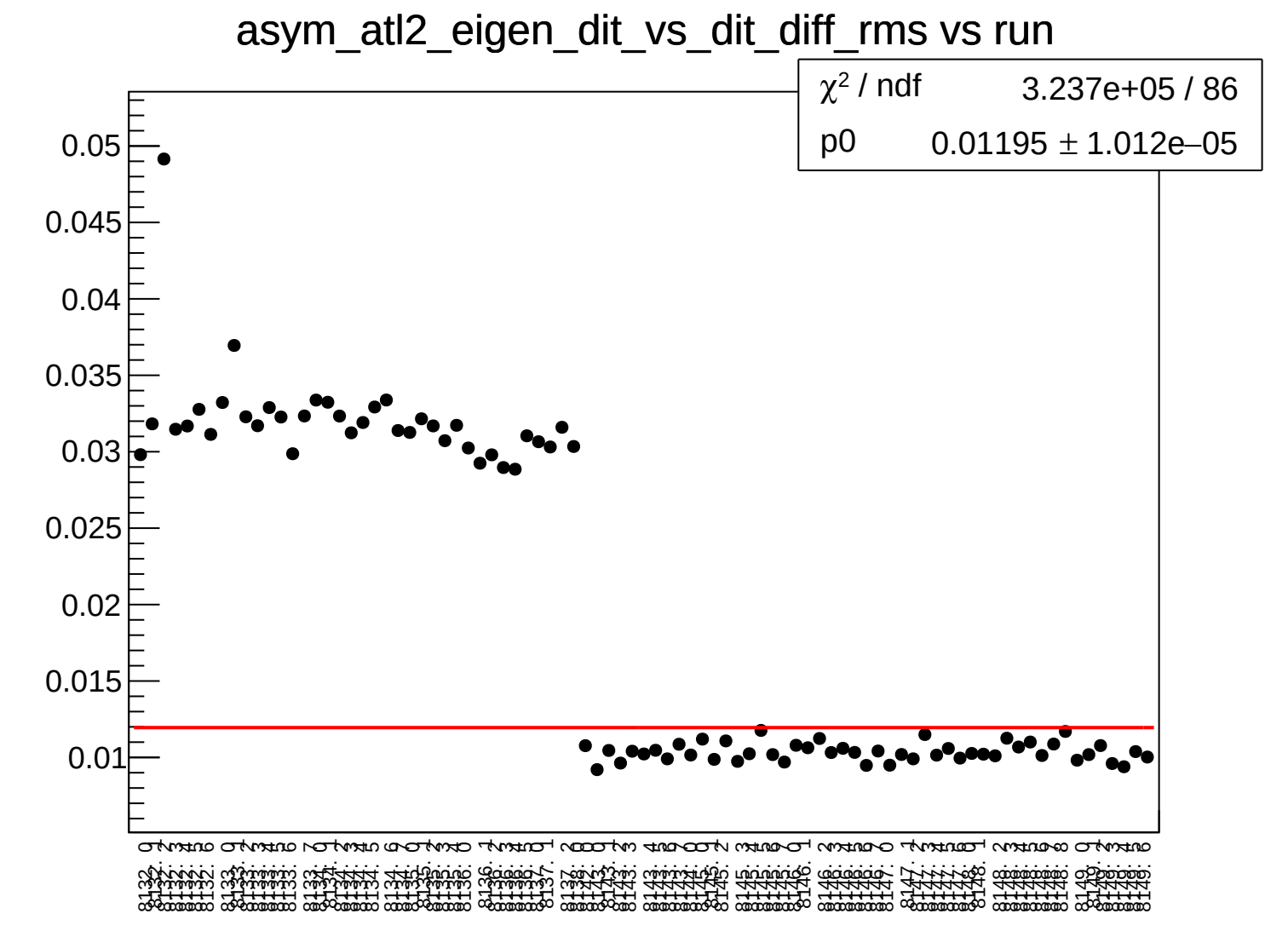

asym_atl2_dit_vs_cor_diff_rms vs run
χ² / ndf 3.109e+04 / 86
p0 218 ± 0.1678
500
450
400
350
300
250
200
150

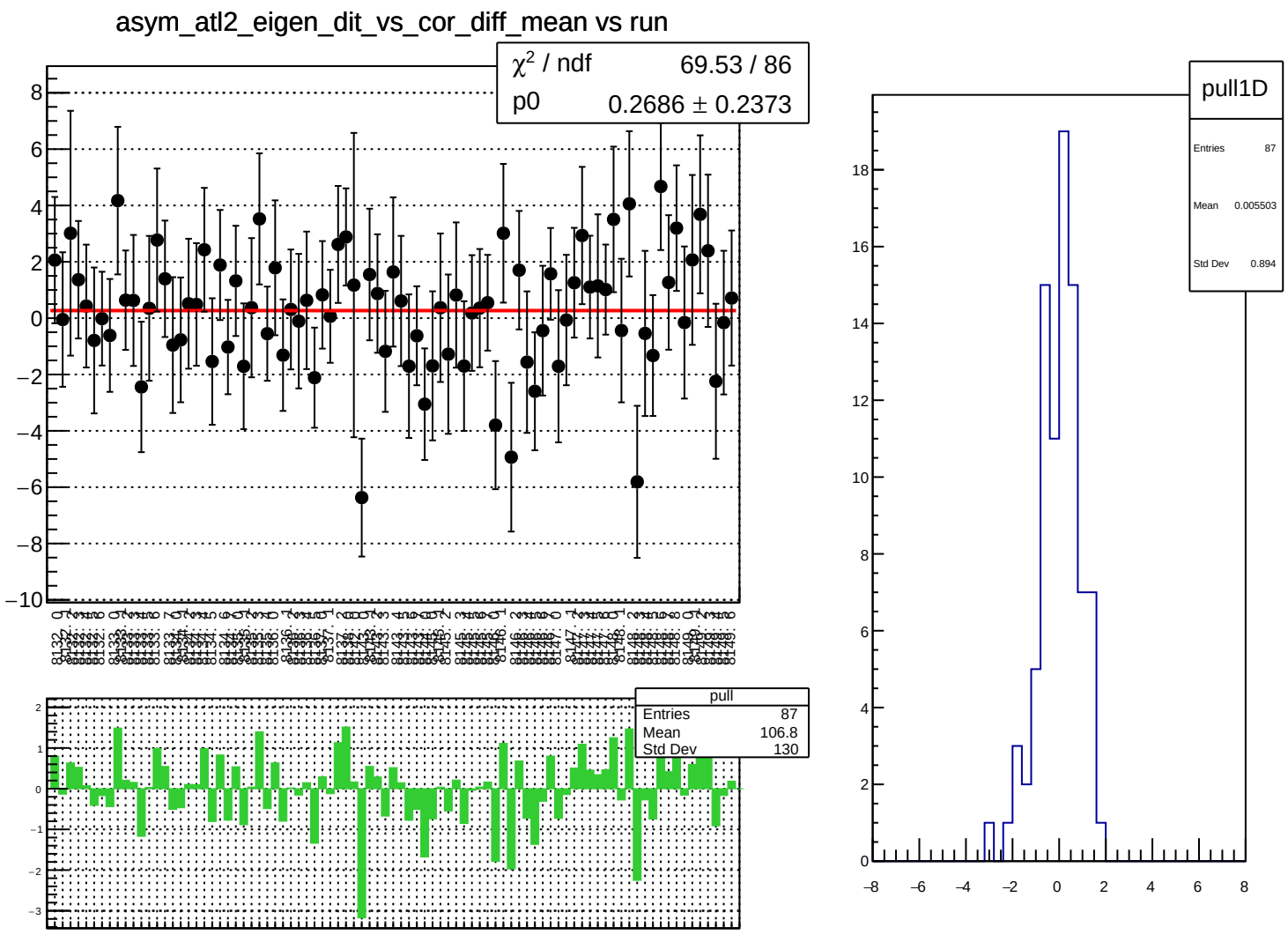

asym_atl2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.53 / 86
p0 0.2685 ± 0.2373
pull
Entries 87
Mean 106.9
Std Dev 130
pull1D
Entries 87
Mean 0.005502
Std Dev 0.8939

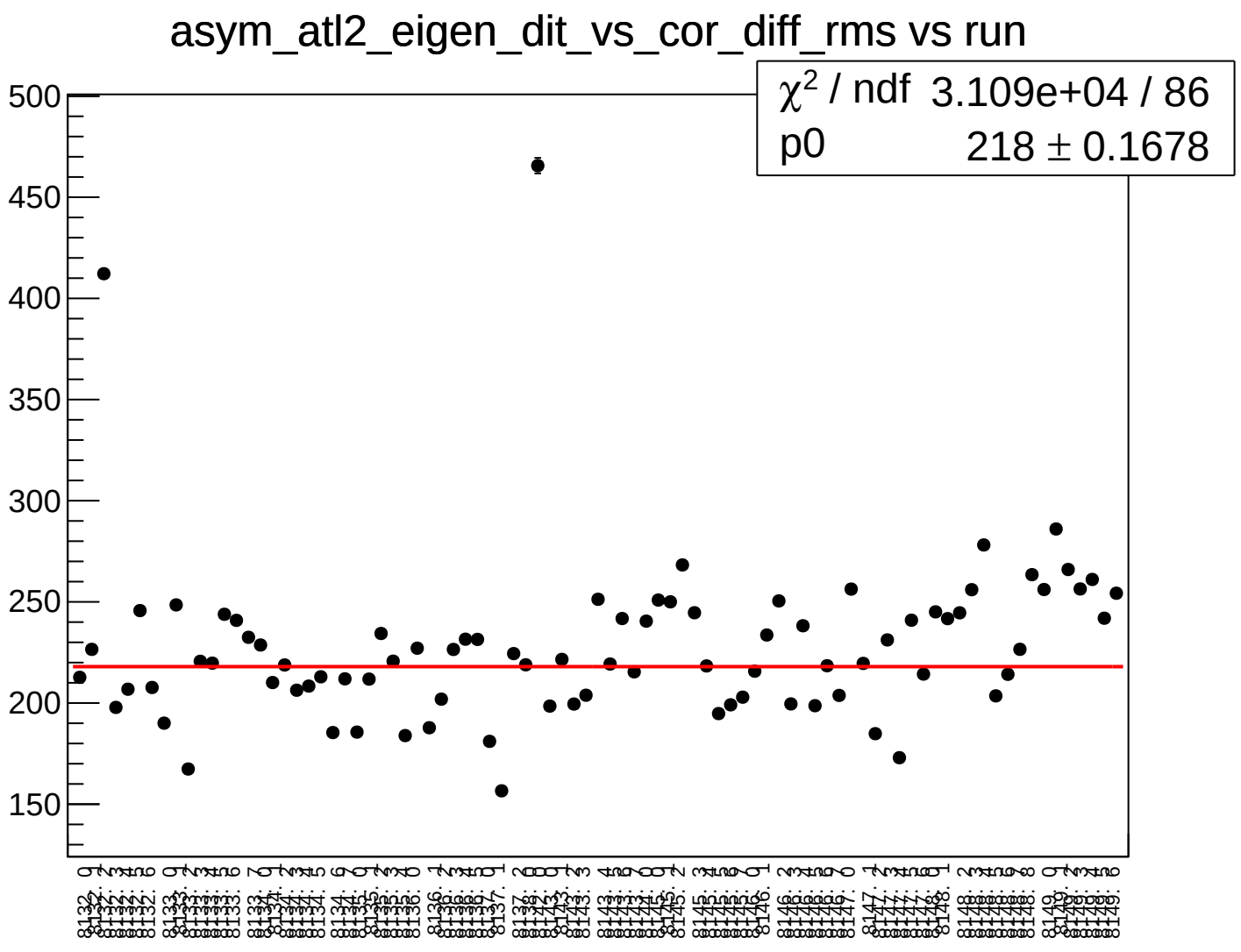

asym_atl2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.109e+04 / 86
p0 218 ± 0.1678
500
450
400
350
300
250
200
150

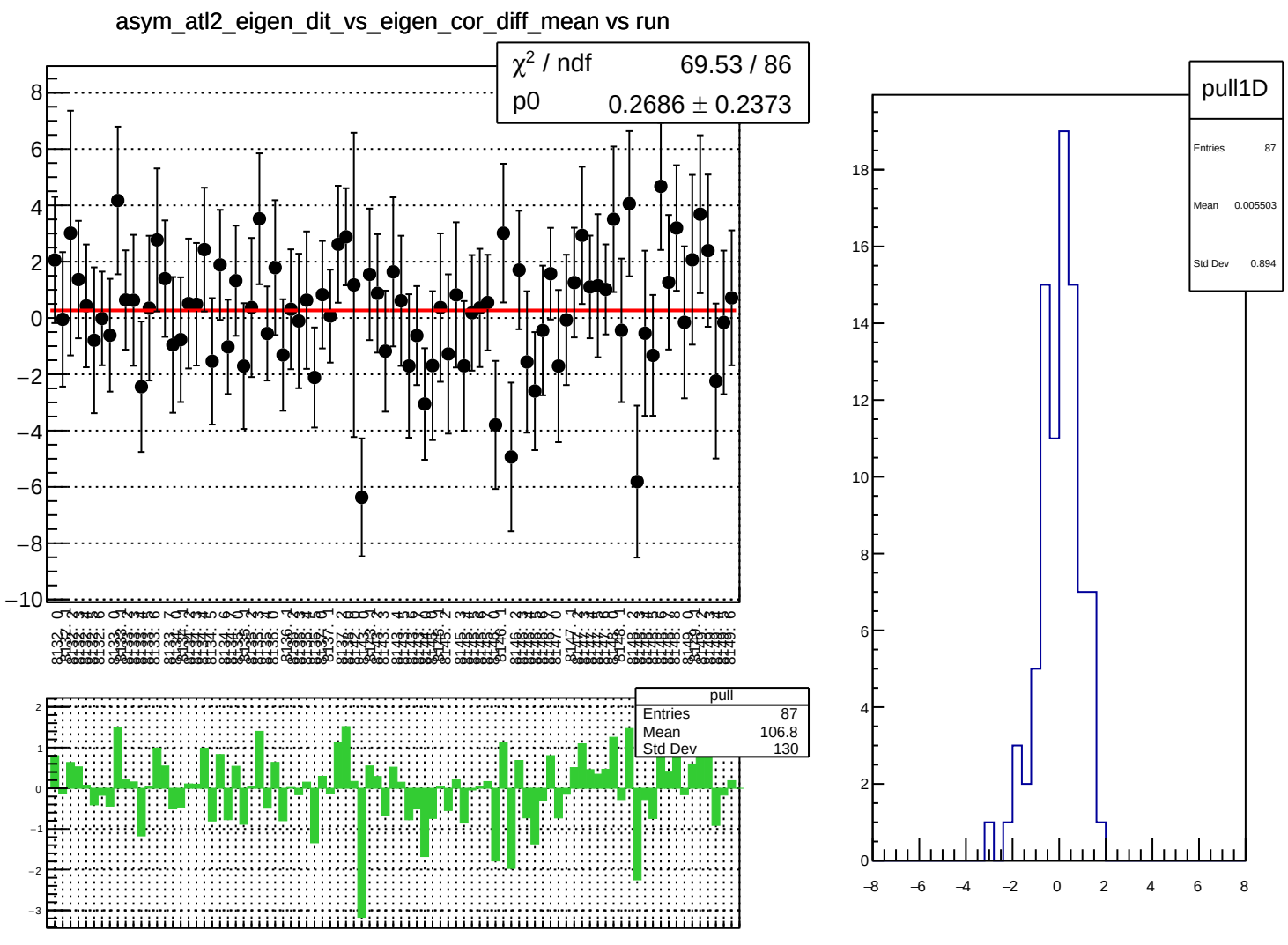

asym_atl2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 84.58 / 86
p0 −1.1e−05 ± 1.431e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 87
Mean −8.187
Std Dev 0

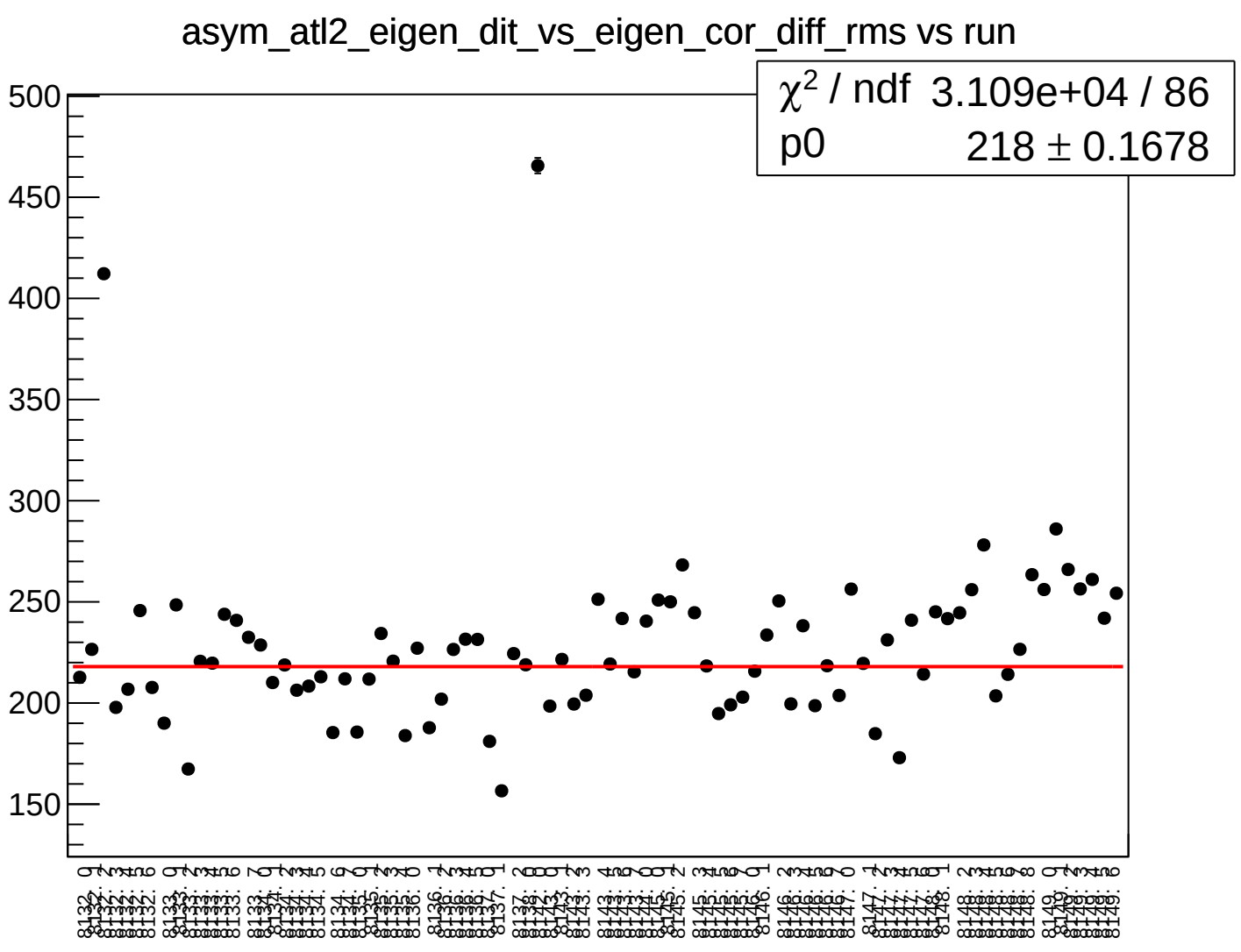

pull1D
Entries 87
Mean 0.07502
Std Dev 0.9831

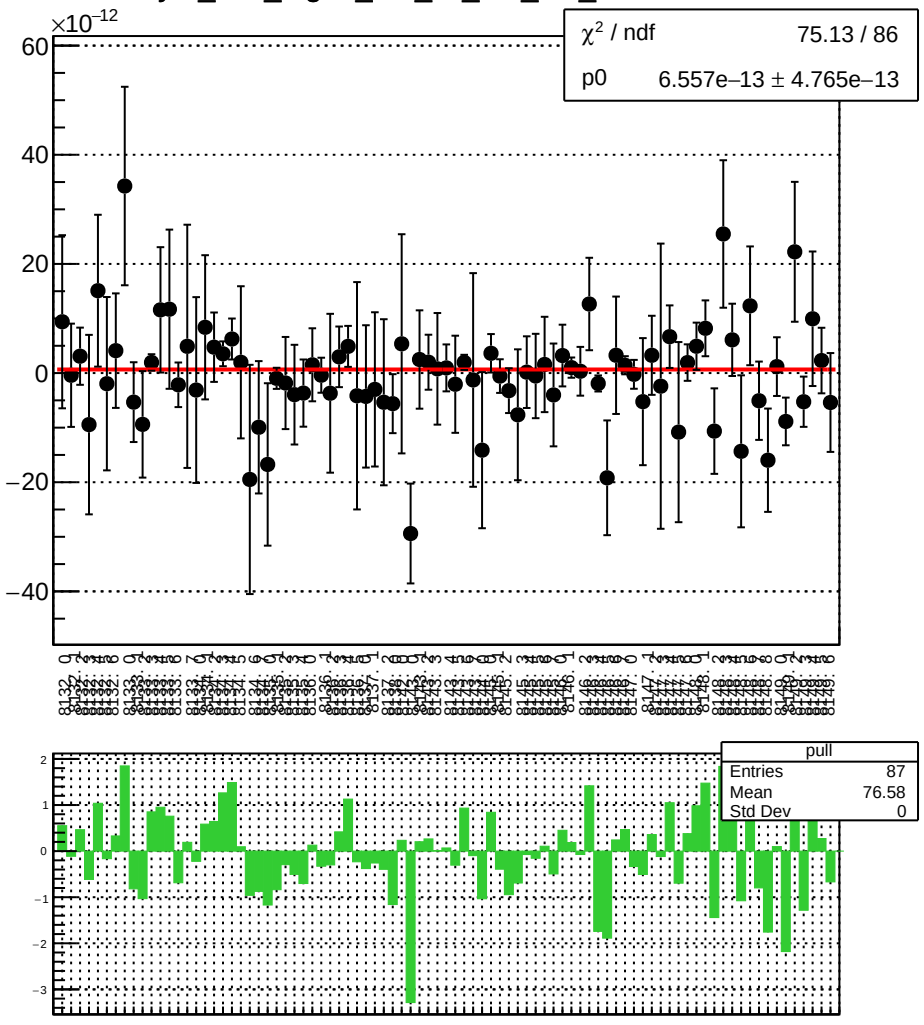

asym_atl2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.237e+05 / 86
p0 0.01195 ± 1.012e−05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

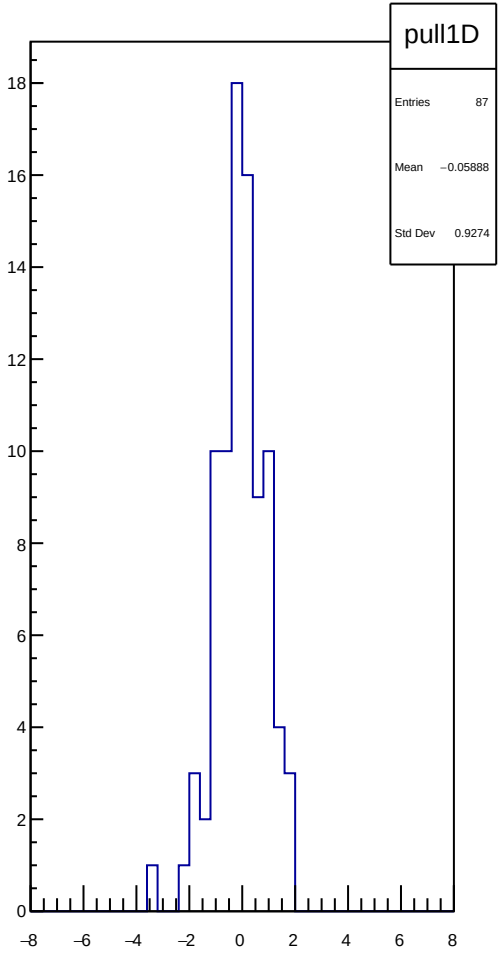

asym_atl2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 69.53 / 86
p0 0.2686 ± 0.2373
pull
Entries 87
Mean 106.8
Std Dev 130
pull1D
Entries 87
Mean 0.005503
Std Dev 0.894

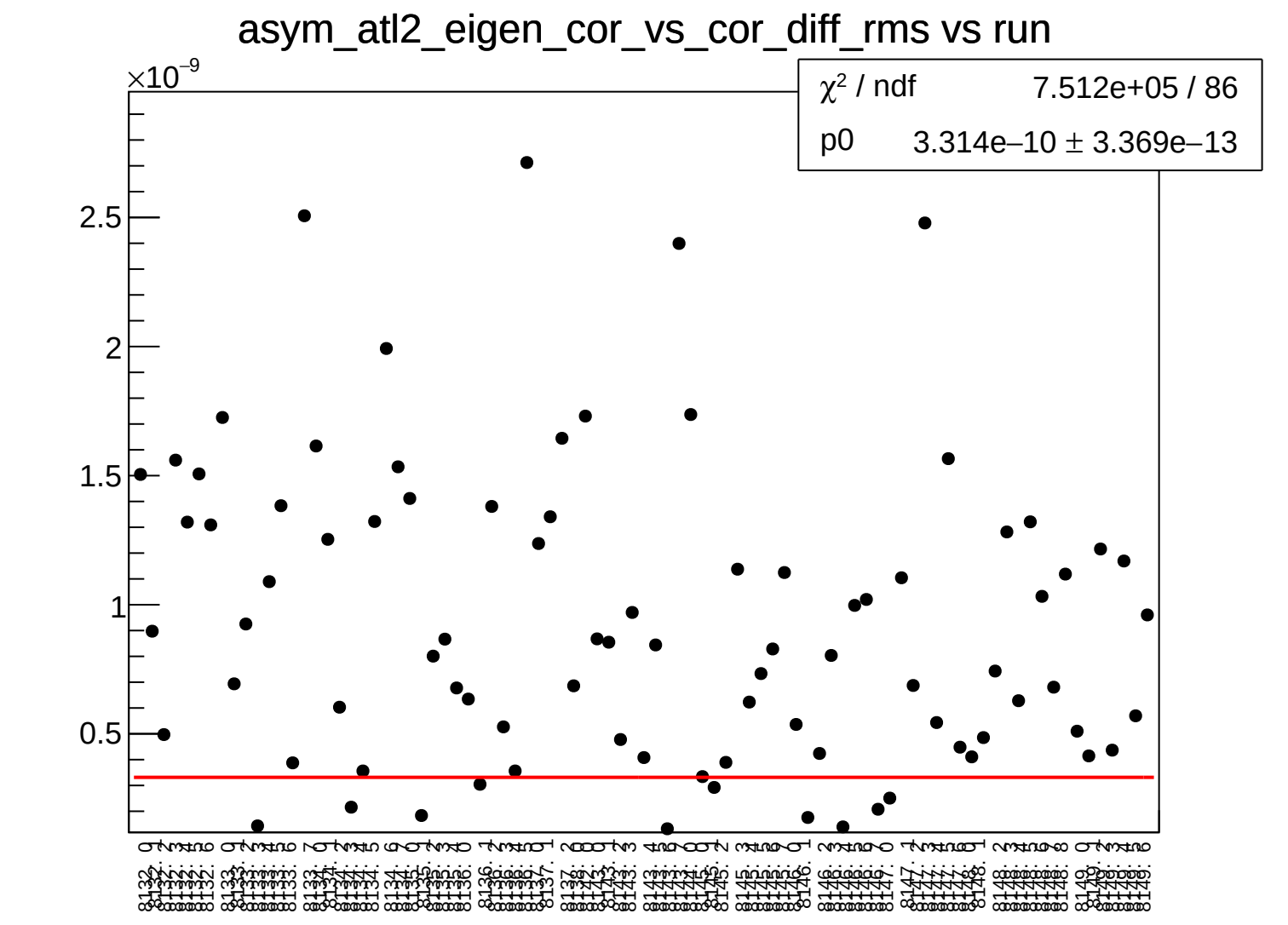

asym_atl2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.109e+04 / 86
p0 218 ± 0.1678
500
450
400
350
300
250
200
150

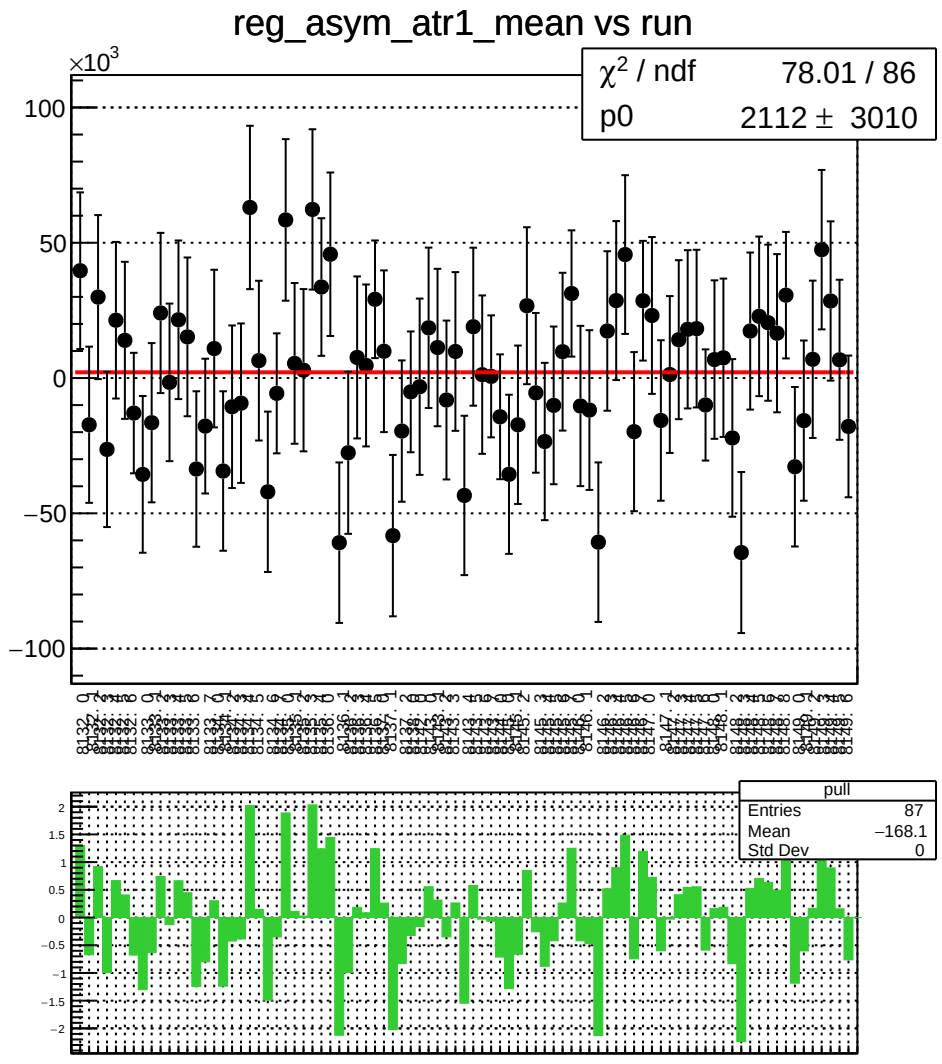

asym_atl2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.53 / 86
p0 0.2686 ± 0.2373
pull
Entries 87
Mean 106.8
Std Dev 130
pull1D
Entries 87
Mean 0.005503
Std Dev 0.894

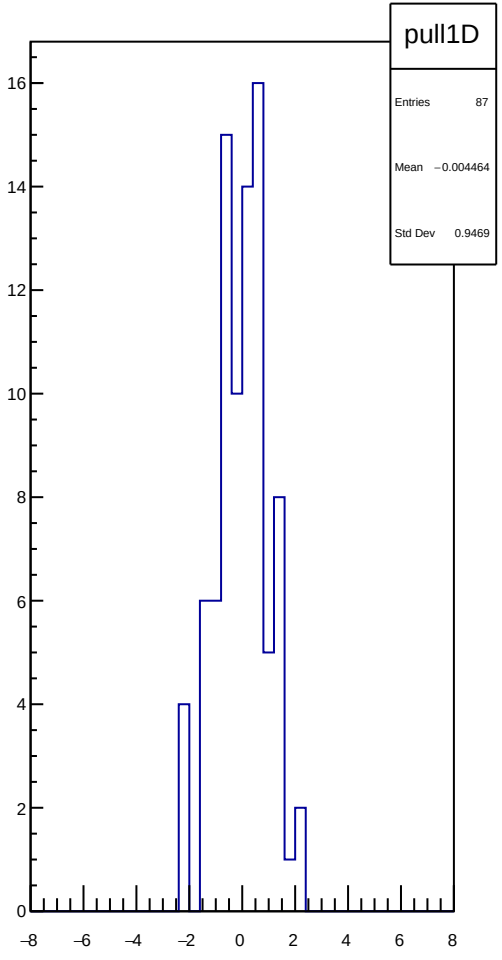

asym_atl2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.109e+04 / 86
p0 218 ± 0.1678
500
450
400
350
300
250
200
150

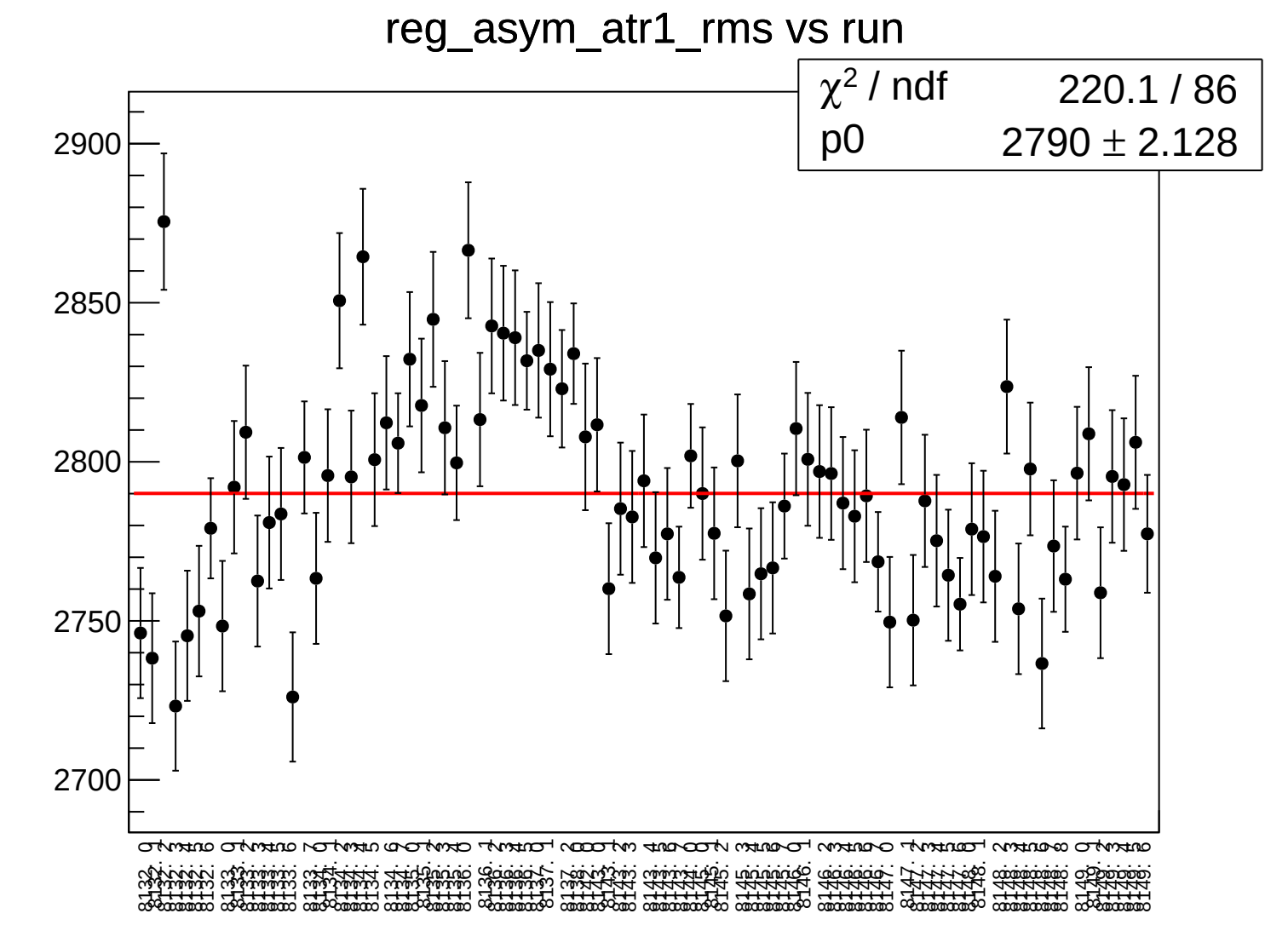

asym_atl2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.13 / 86
p0 6.557e−13 ± 4.765e−13
pull
Entries 87
Mean 76.58
Std Dev 0

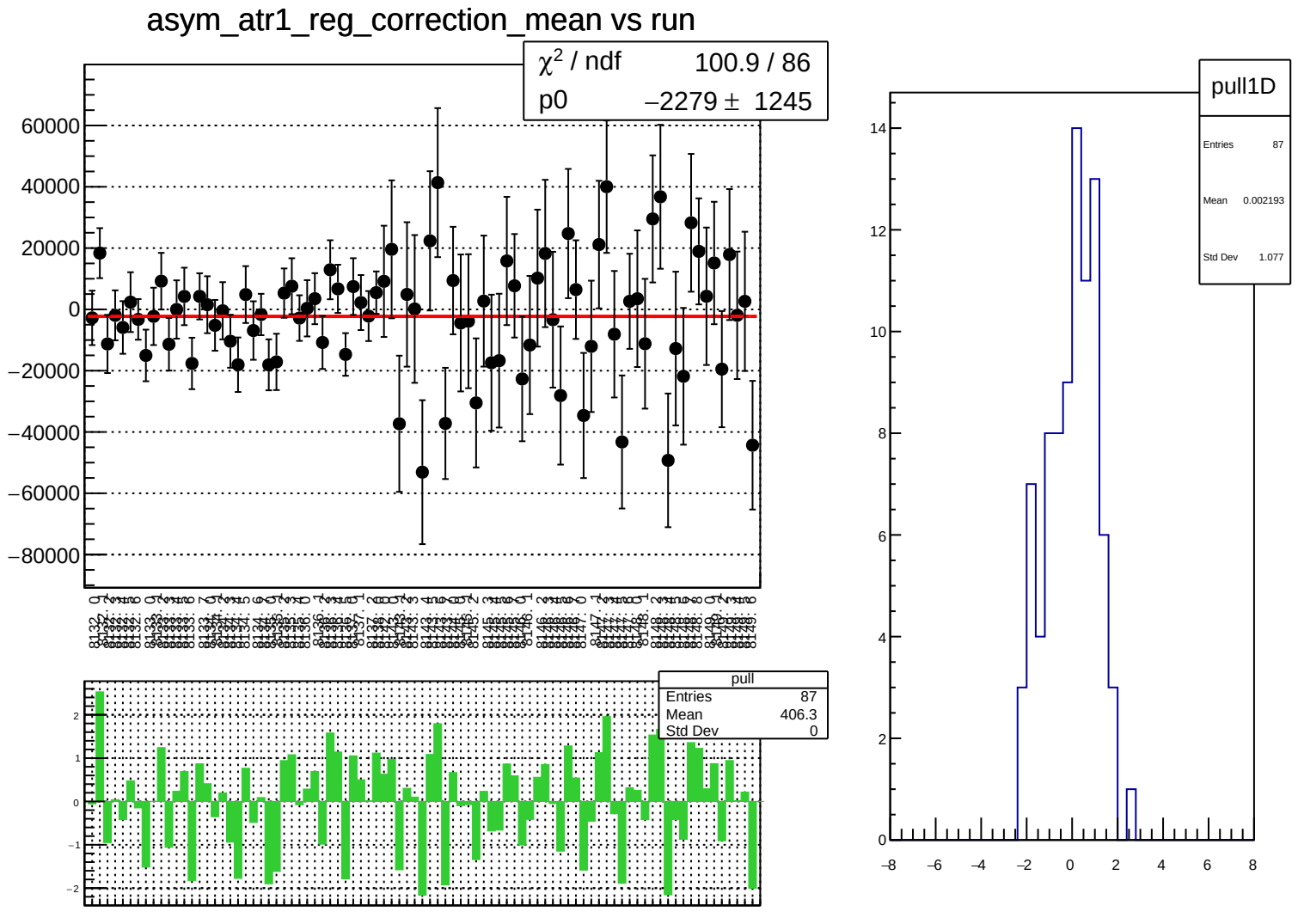

pull1D
Entries 87
Mean −0.05888
Std Dev 0.9274

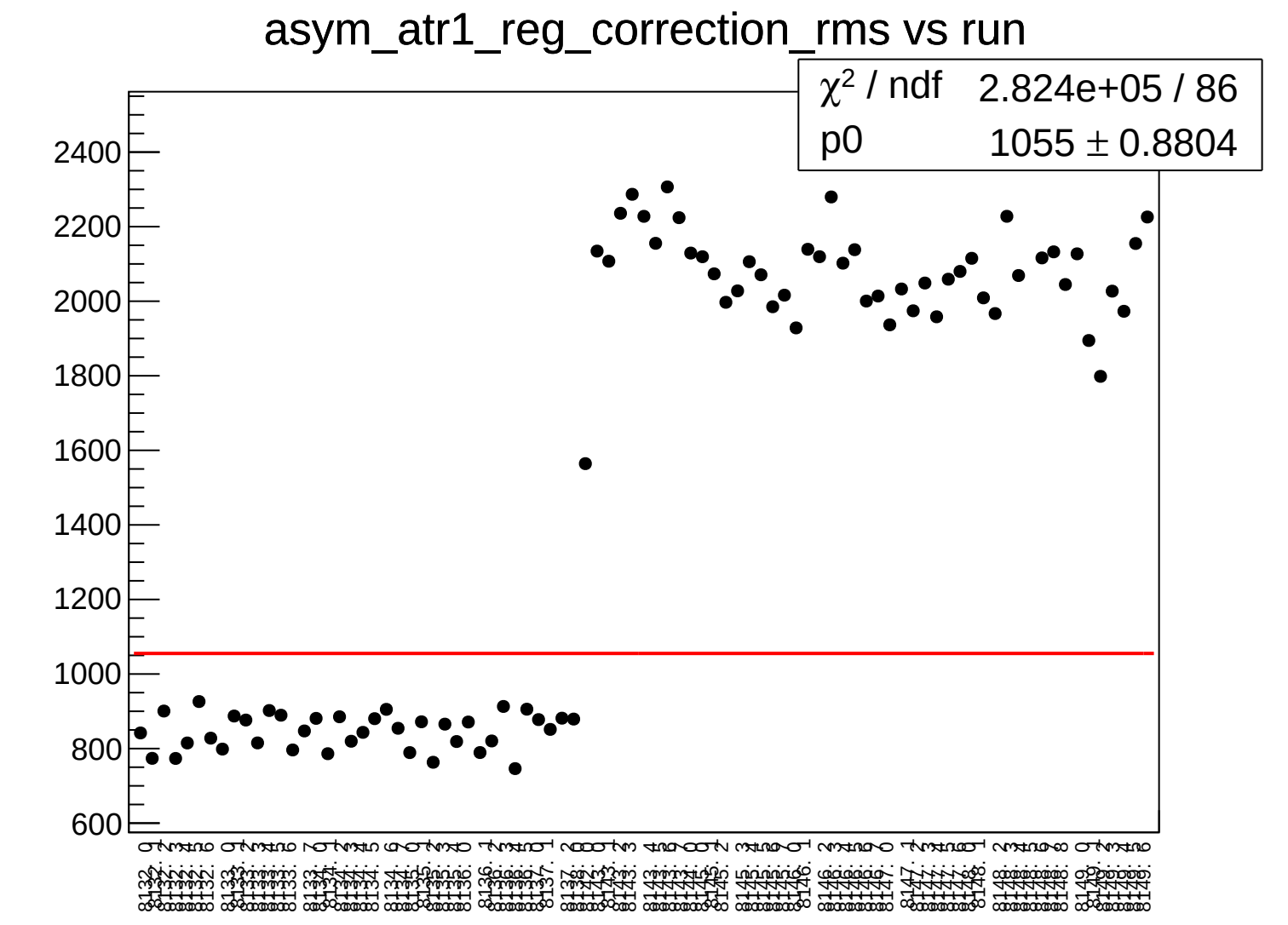

asym_atl2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.512e+05 / 86
p0 3.314e−10 ± 3.369e−13
2.5
2
1.5
1
0.5

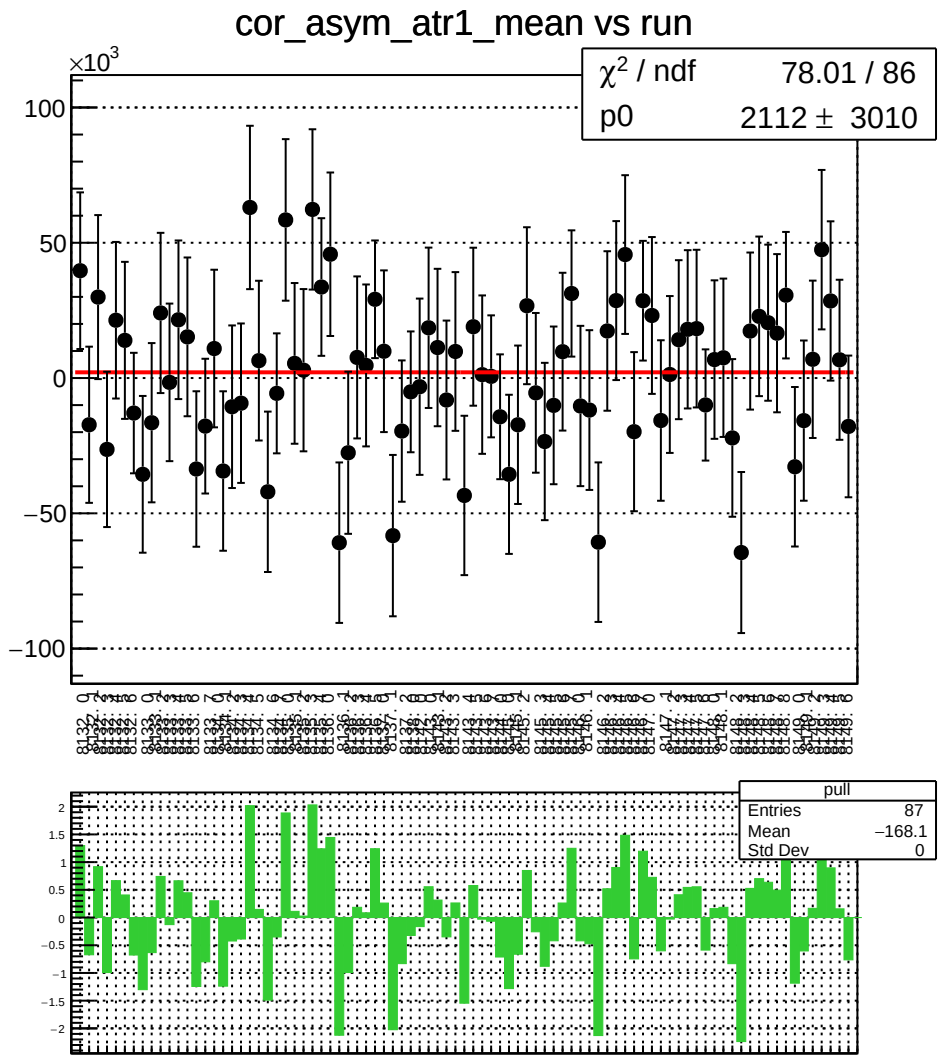

reg_asym_atr1_mean vs run
×10^3
χ^2 / ndf 78.01 / 86
p0 2112 ± 3010
100
50
0
−50
−100
pull
Entries 87
Mean −168.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

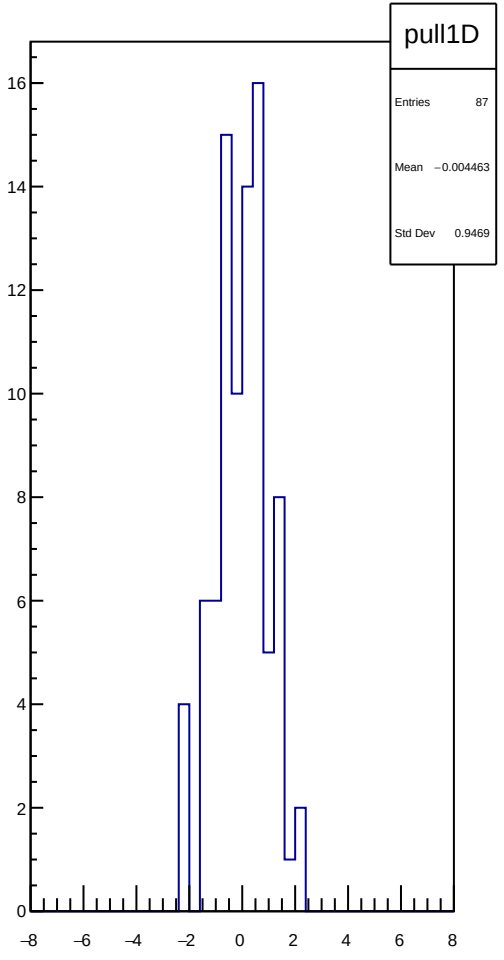

pull1D
Entries 87
Mean −0.004464
Std Dev 0.9469
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

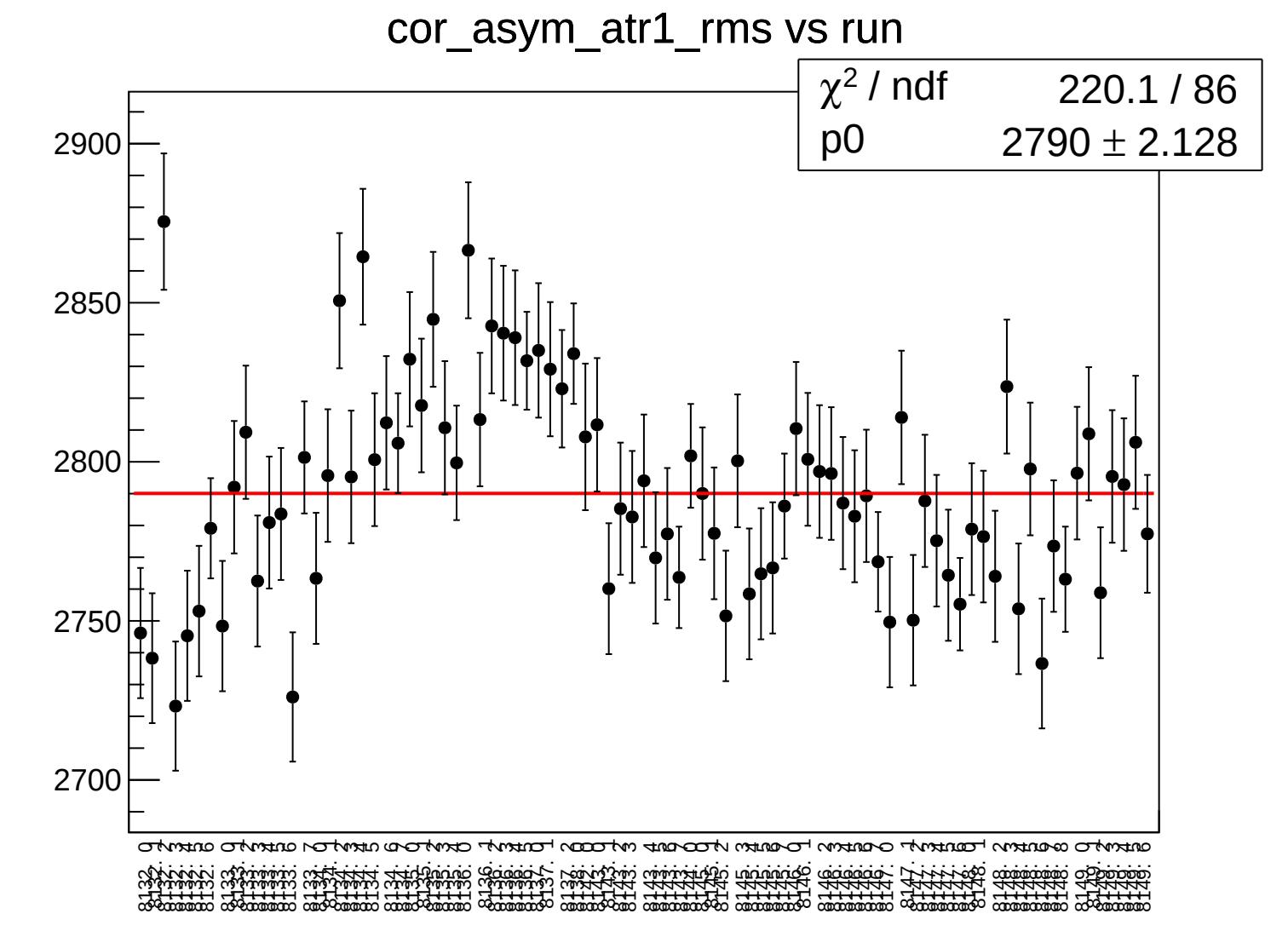

reg_asym_atr1_rms vs run
χ^2 / ndf 220.1 / 86
p0 2790 ± 2.128
2900
2850
2800
2750
2700

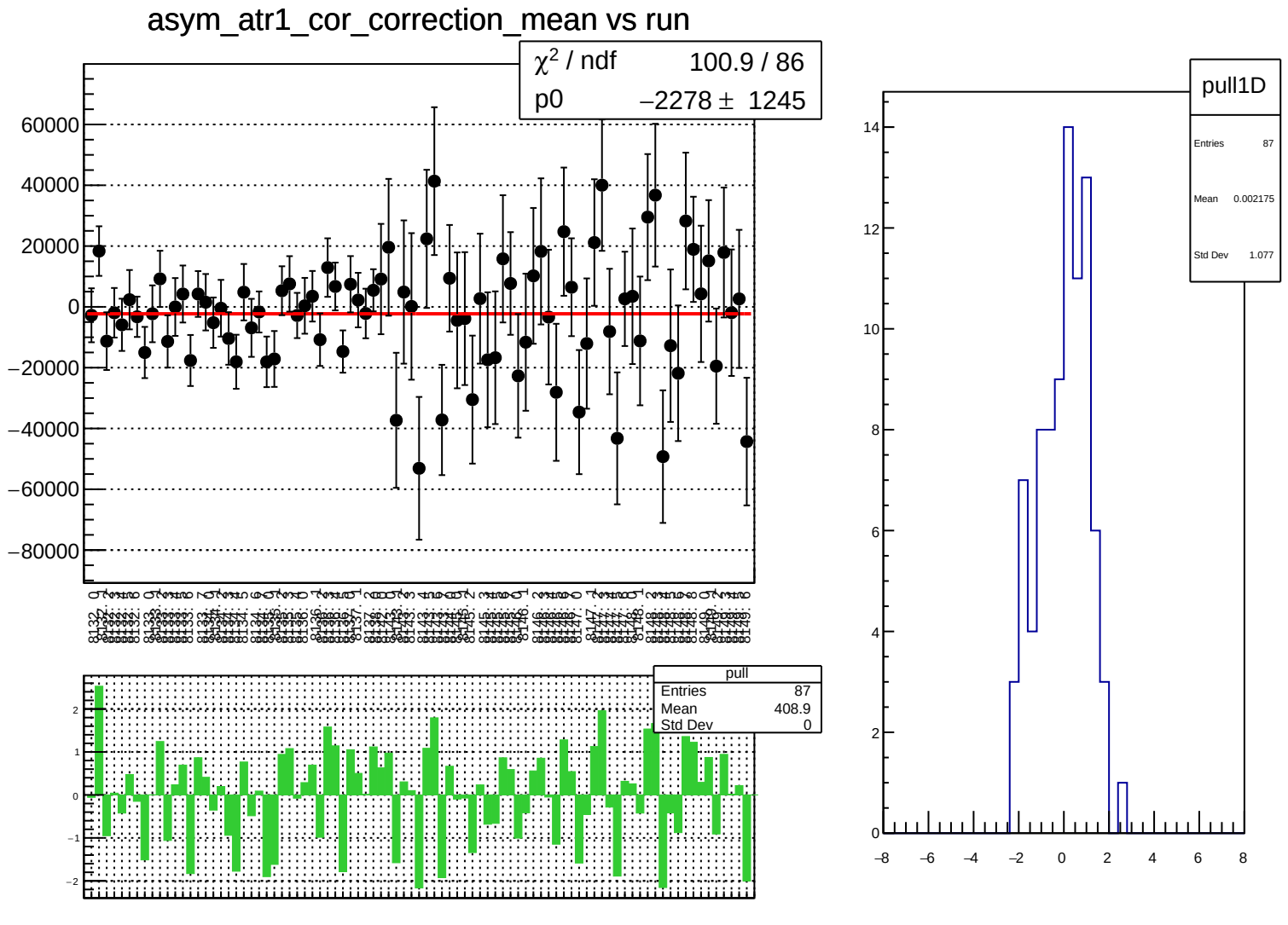

asym_atr1_reg_correction_mean vs run
χ² / ndf 100.9 / 86
p0 −2279 ± 1245
pull
Entries 87
Mean 406.3
Std Dev 0
pull1D
Entries 87
Mean 0.002193
Std Dev 1.077

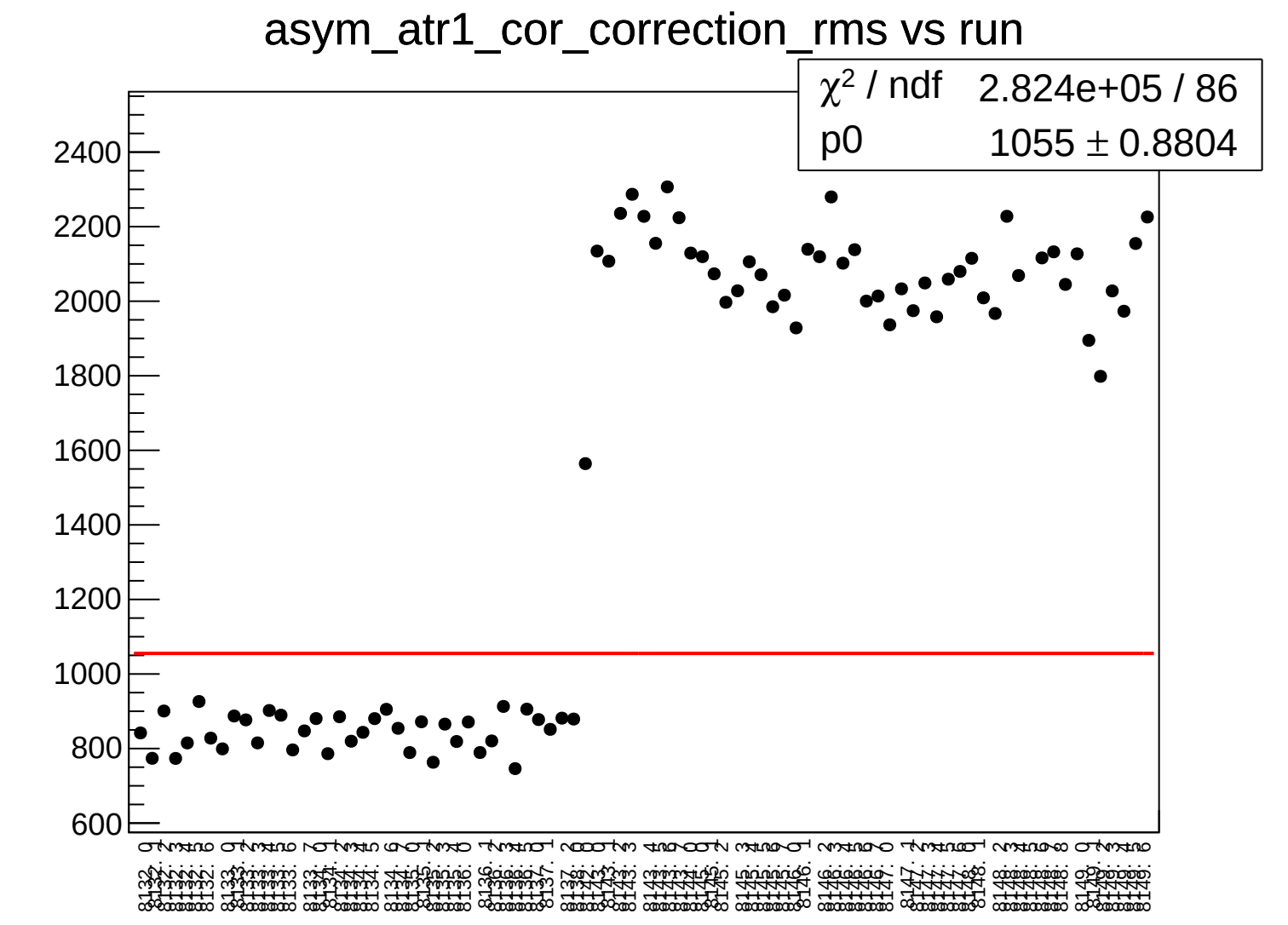

asym_atr1_reg_correction_rms vs run
χ² / ndf 2.824e+05 / 86
p0 1055 ± 0.8804
2400
2200
2000
1800
1600
1400
1200
1000
800
600

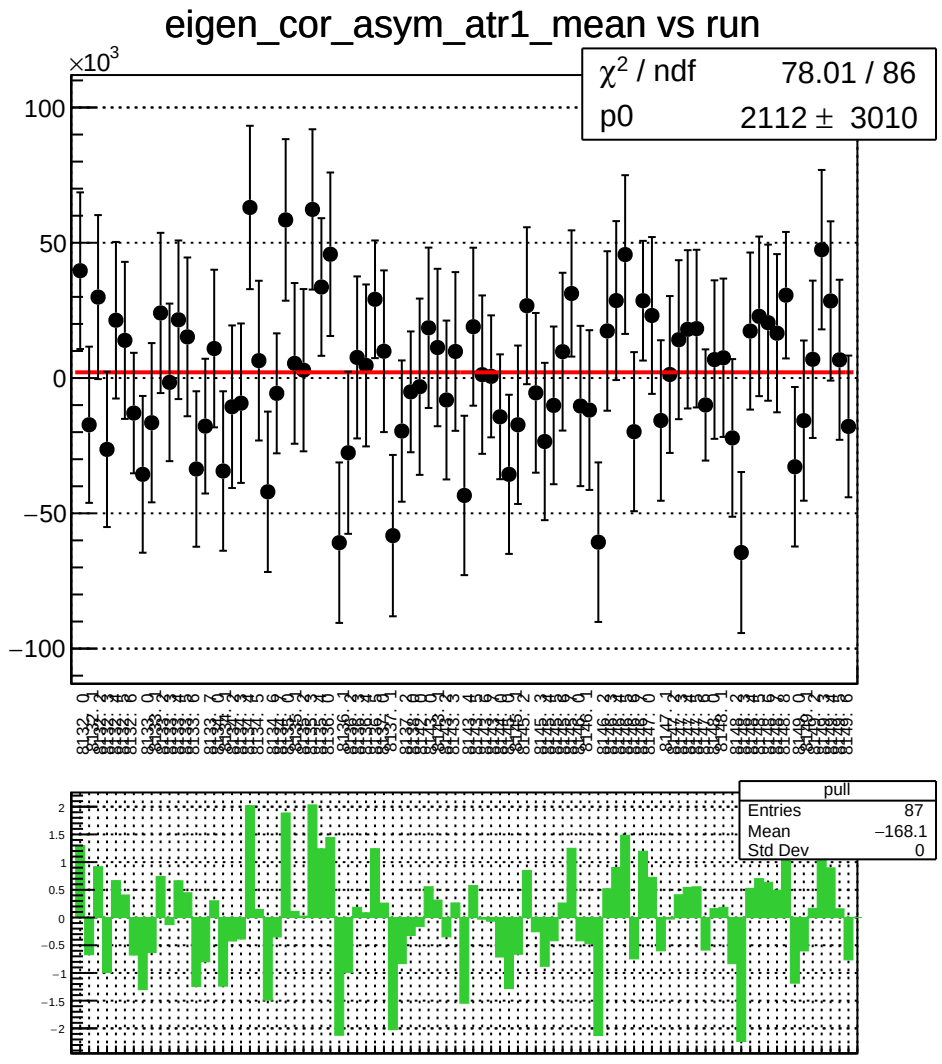

cor_asym_atr1_mean vs run
×10^3
χ² / ndf 78.01 / 86
p0 2112 ± 3010
100
50
0
−50
−100
pull
Entries 87
Mean −168.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

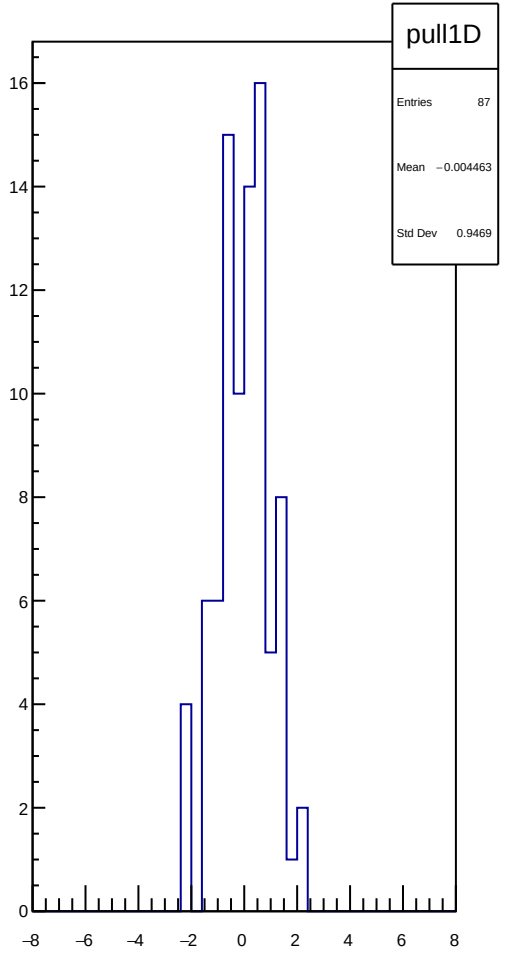

pull1D
Entries 87
Mean −0.004463
Std Dev 0.9469
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

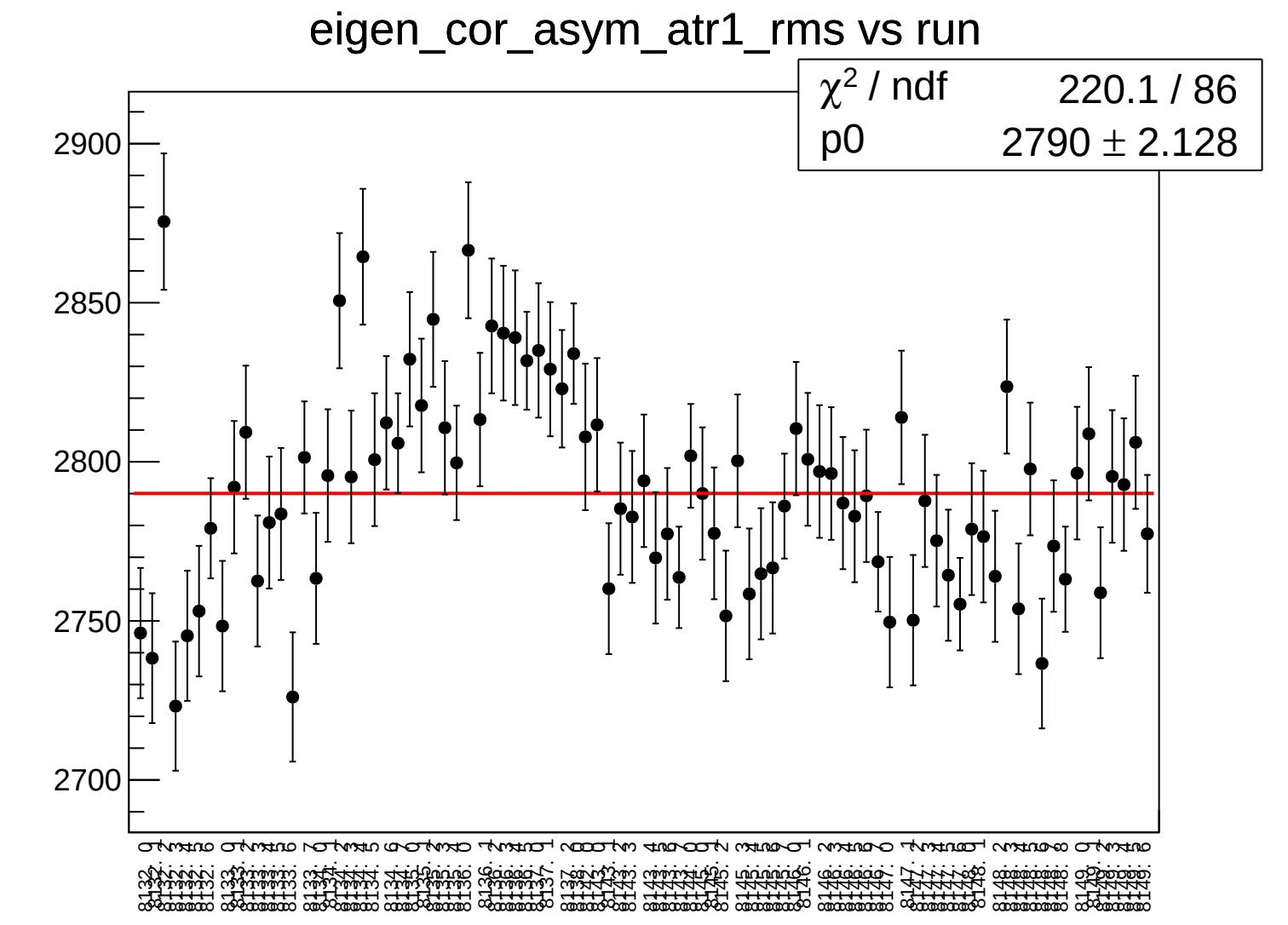

cor_asym_atr1_rms vs run
χ² / ndf 220.1 / 86
p0 2790 ± 2.128
2900
2850
2800
2750
2700

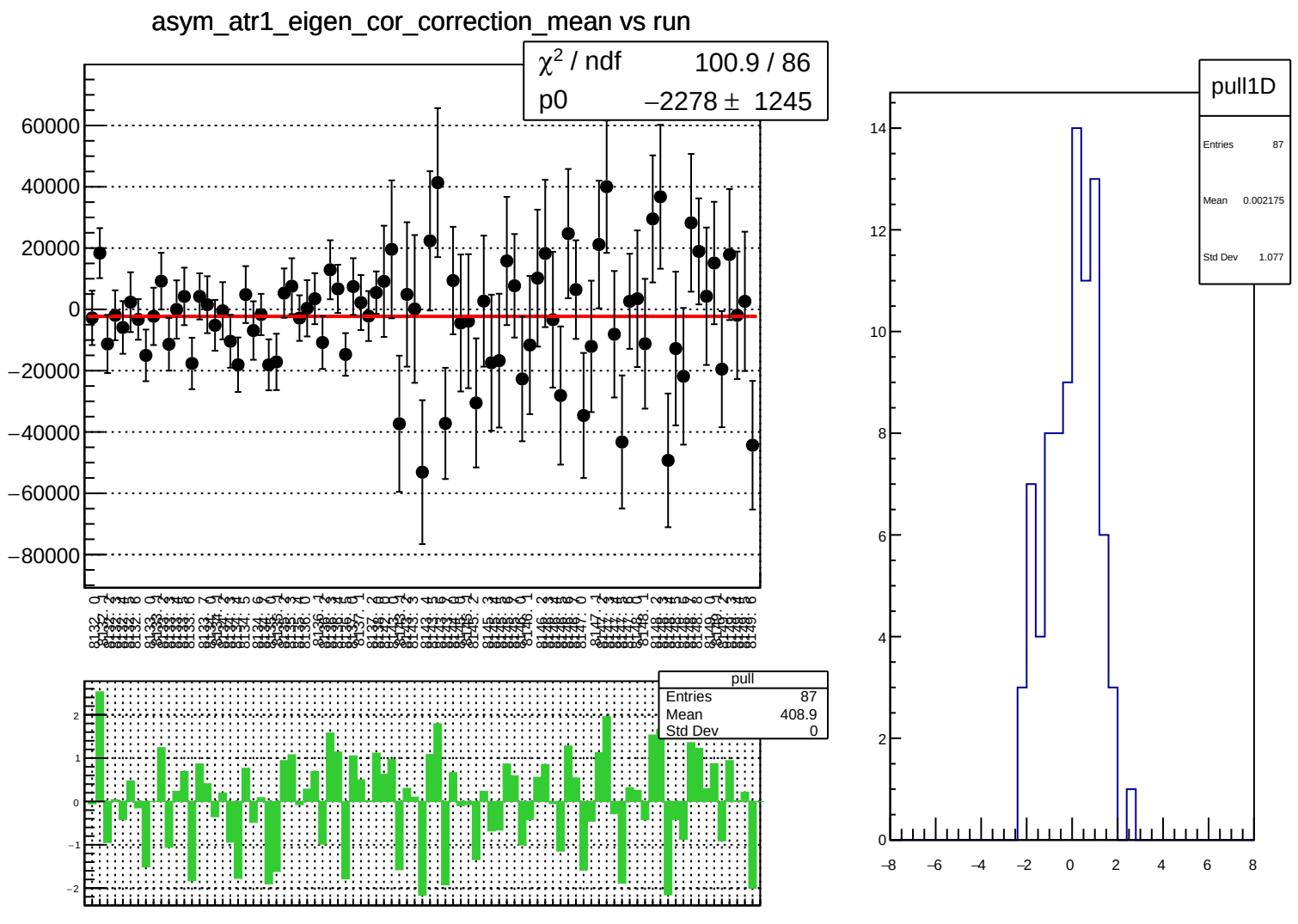

asym_atr1_cor_correction_mean vs run
χ² / ndf 100.9 / 86
p0 −2278 ± 1245
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean 408.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.002175
Std Dev 1.077
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

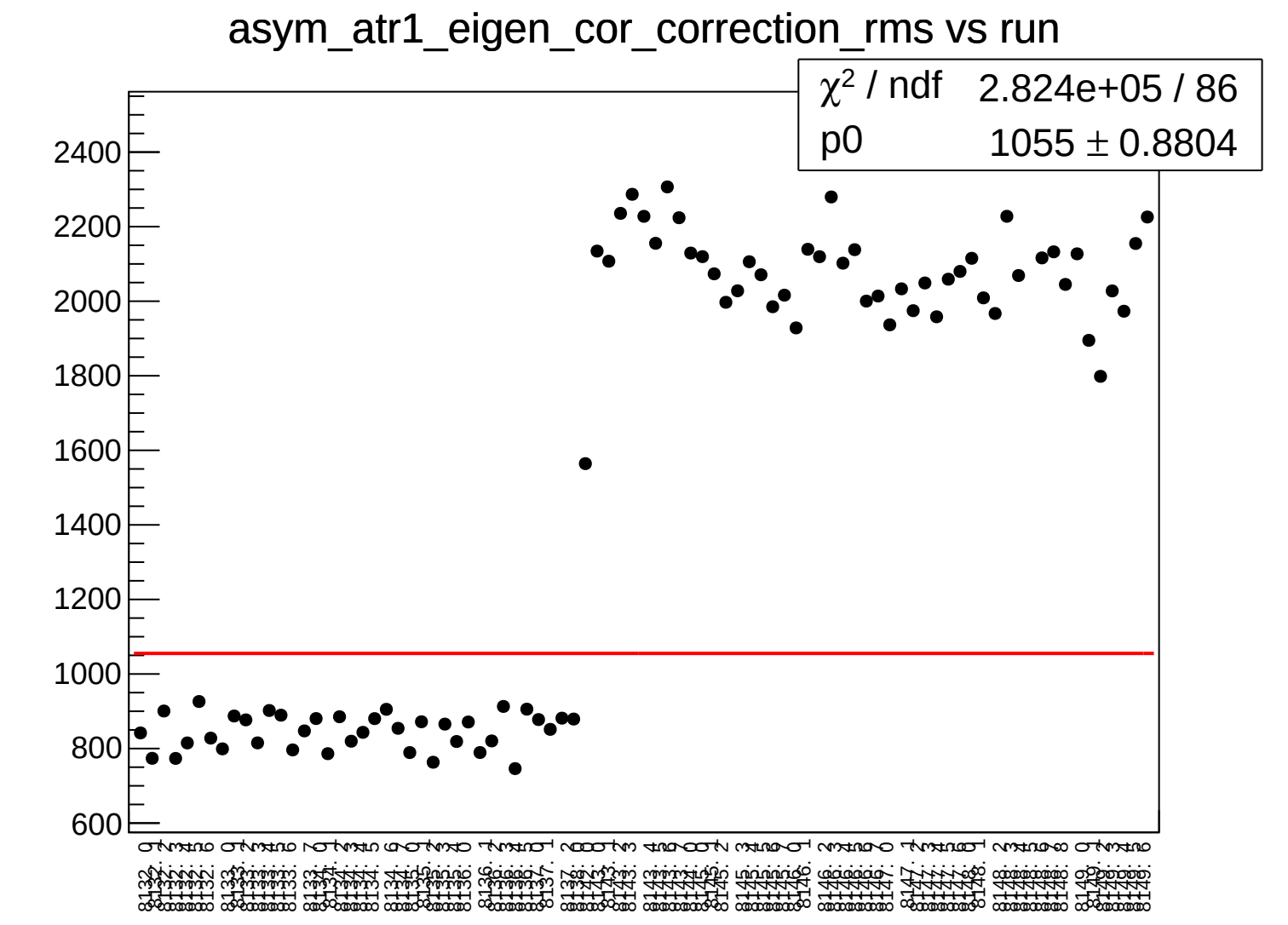

asym_atr1_cor_correction_rms vs run
χ² / ndf 2.824e+05 / 86
p0 1055 ± 0.8804
2400
2200
2000
1800
1600
1400
1200
1000
800
600

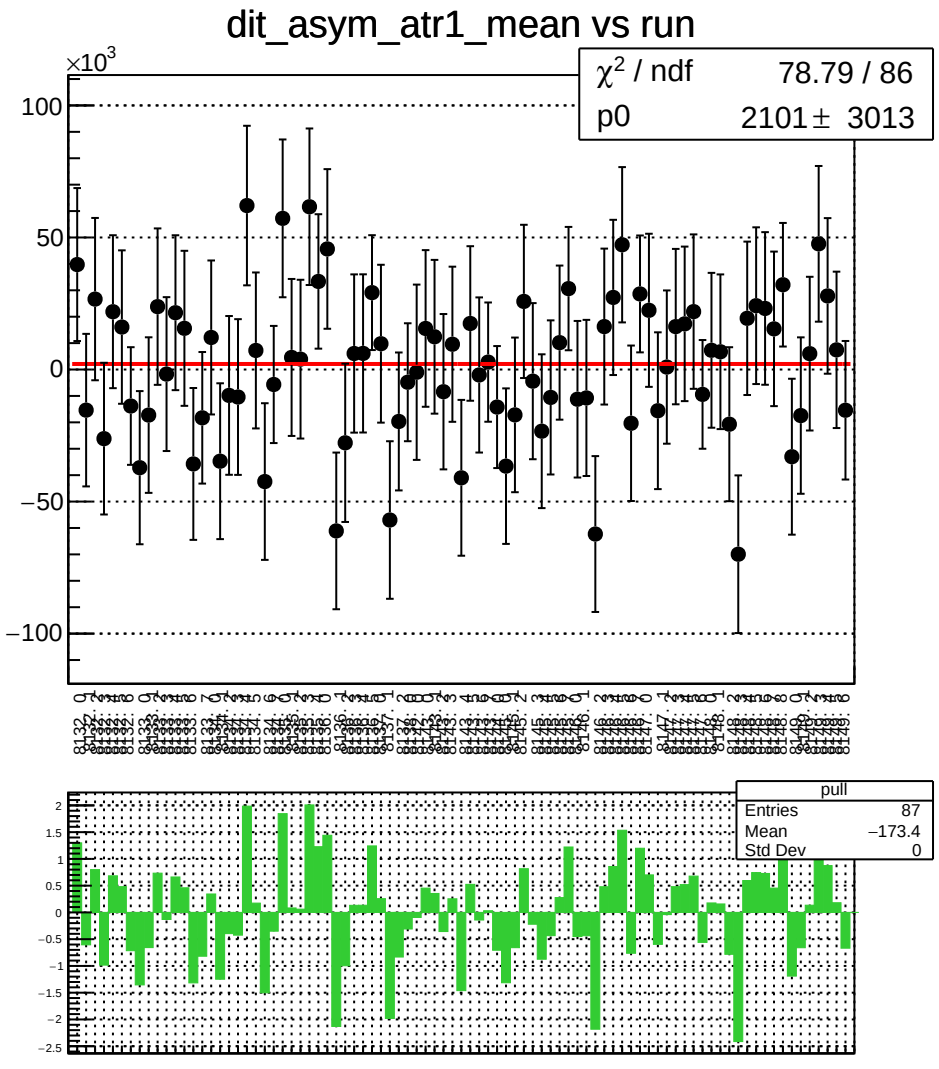

eigen_cor_asym_atr1_mean vs run
×10^3
χ^2 / ndf 78.01 / 86
p0 2112 ± 3010
100
50
0
−50
−100
pull
Entries 87
Mean −168.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

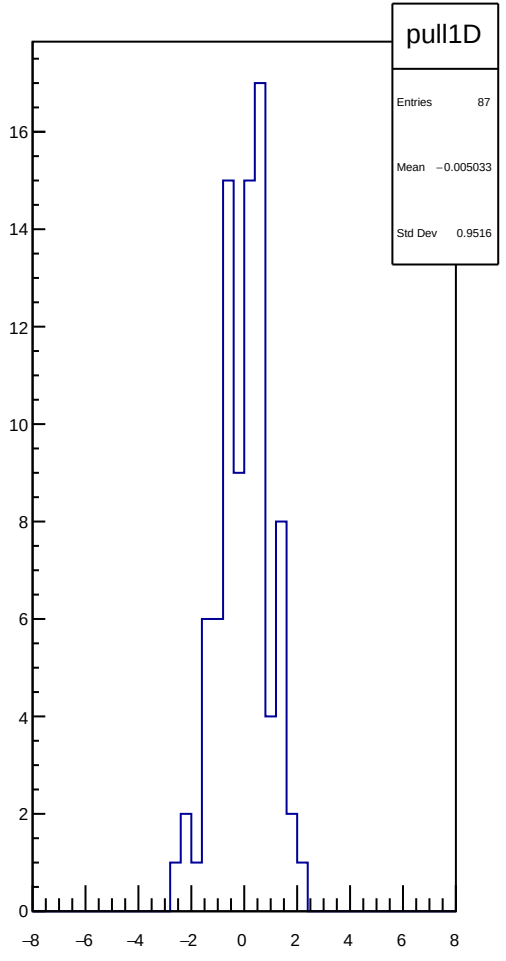

pull1D
Entries 87
Mean −0.004463
Std Dev 0.9469
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

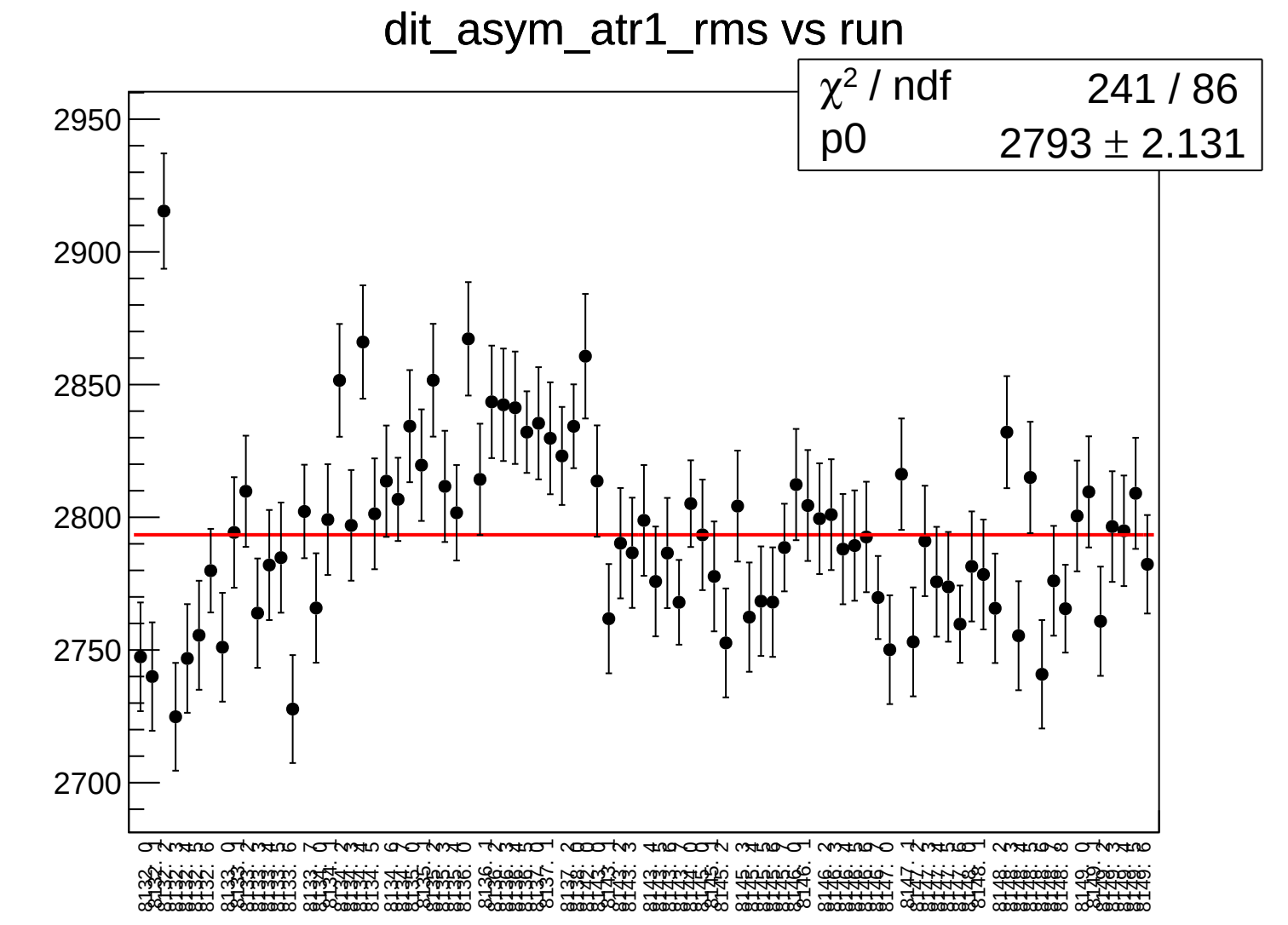

eigen_cor_asym_atr1_rms vs run
χ² / ndf 220.1 / 86
p0 2790 ± 2.128
2900
2850
2800
2750
2700

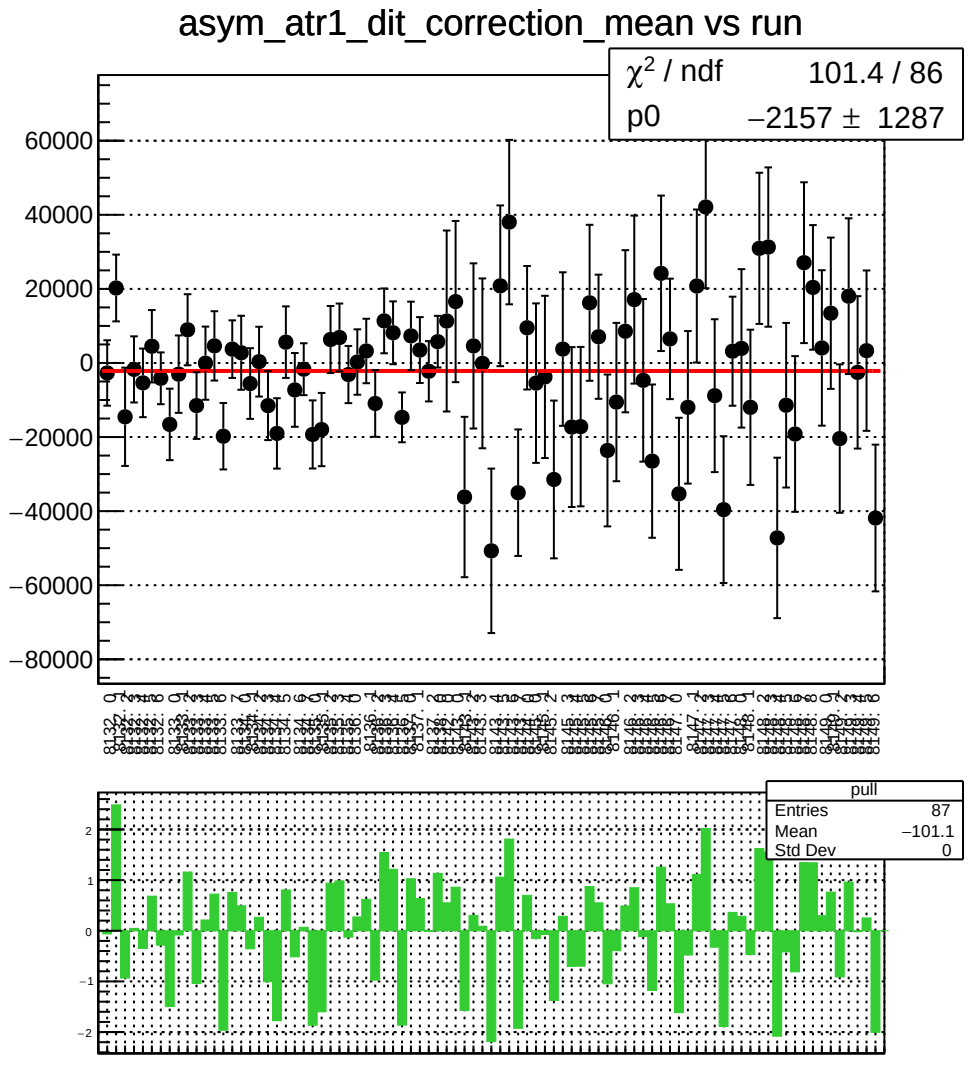

asym_atr1_eigen_cor_correction_mean vs run
χ² / ndf 100.9 / 86
p0 −2278 ± 1245
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean 408.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.002175
Std Dev 1.077
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

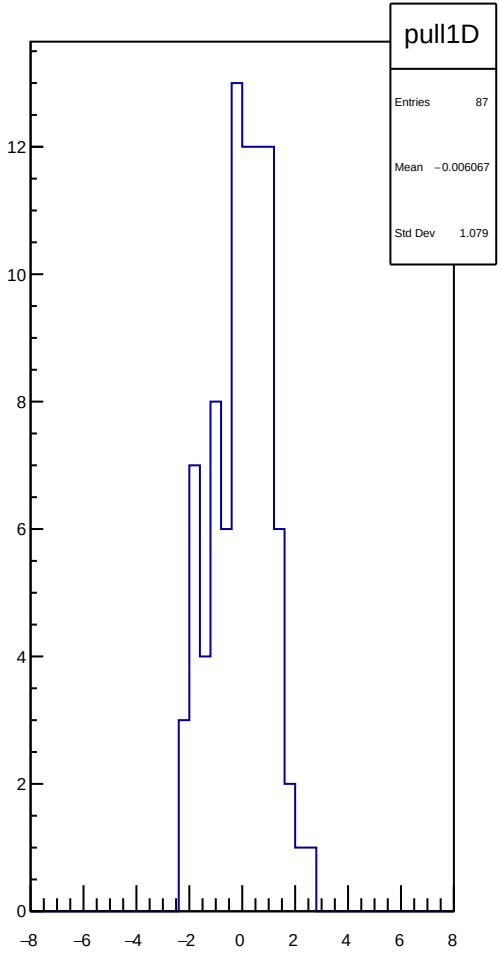

asym_atr1_eigen_cor_correction_rms vs run
χ² / ndf 2.824e+05 / 86
p0 1055 ± 0.8804
2400
2200
2000
1800
1600
1400
1200
1000
800
600

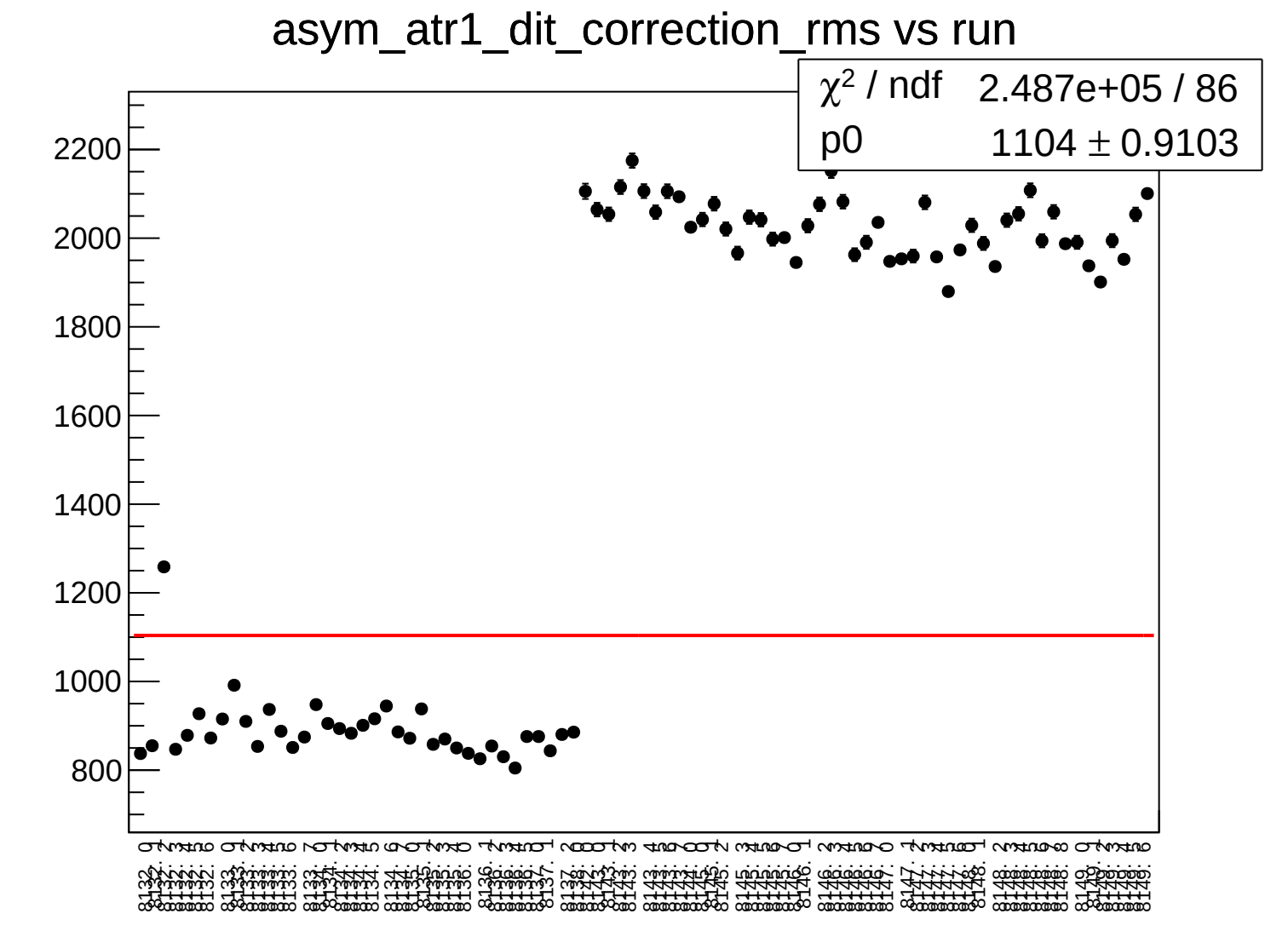

dit_asym_atr1_mean vs run
×10^3
χ^2 / ndf 78.79 / 86
p0 2101 ± 3013
100
50
0
−50
−100
pull
Entries 87
Mean −173.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

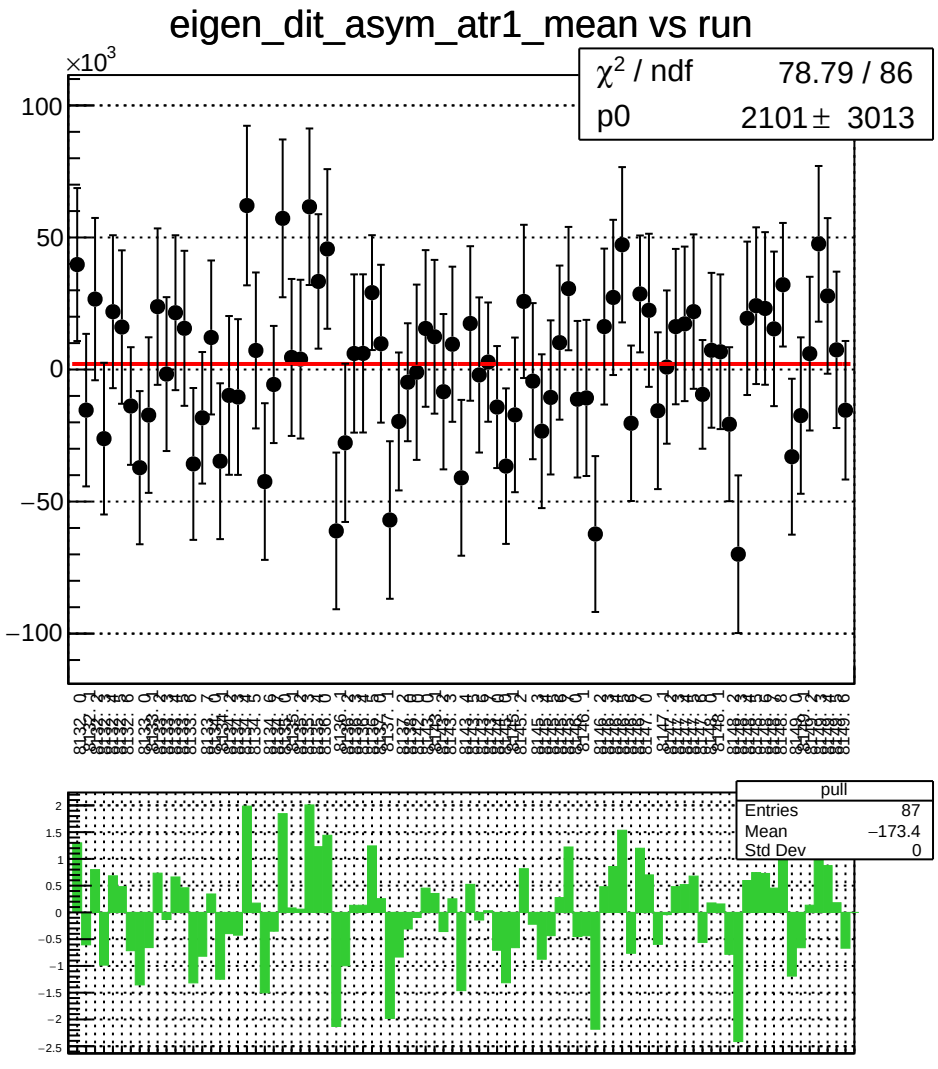

pull1D
Entries 87
Mean −0.005033
Std Dev 0.9516
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

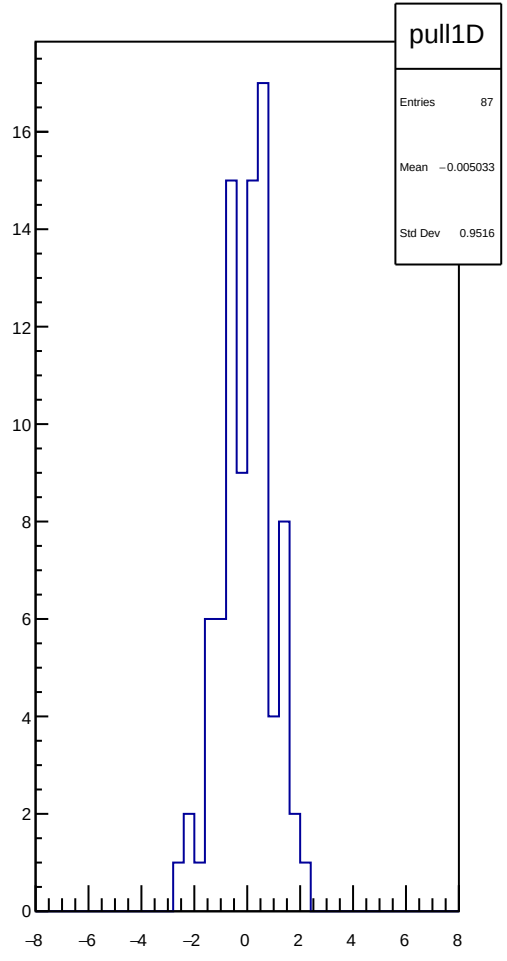

dit_asym_atr1_rms vs run
χ² / ndf 241 / 86
p0 2793 ± 2.131
2950
2900
2850
2800
2750
2700

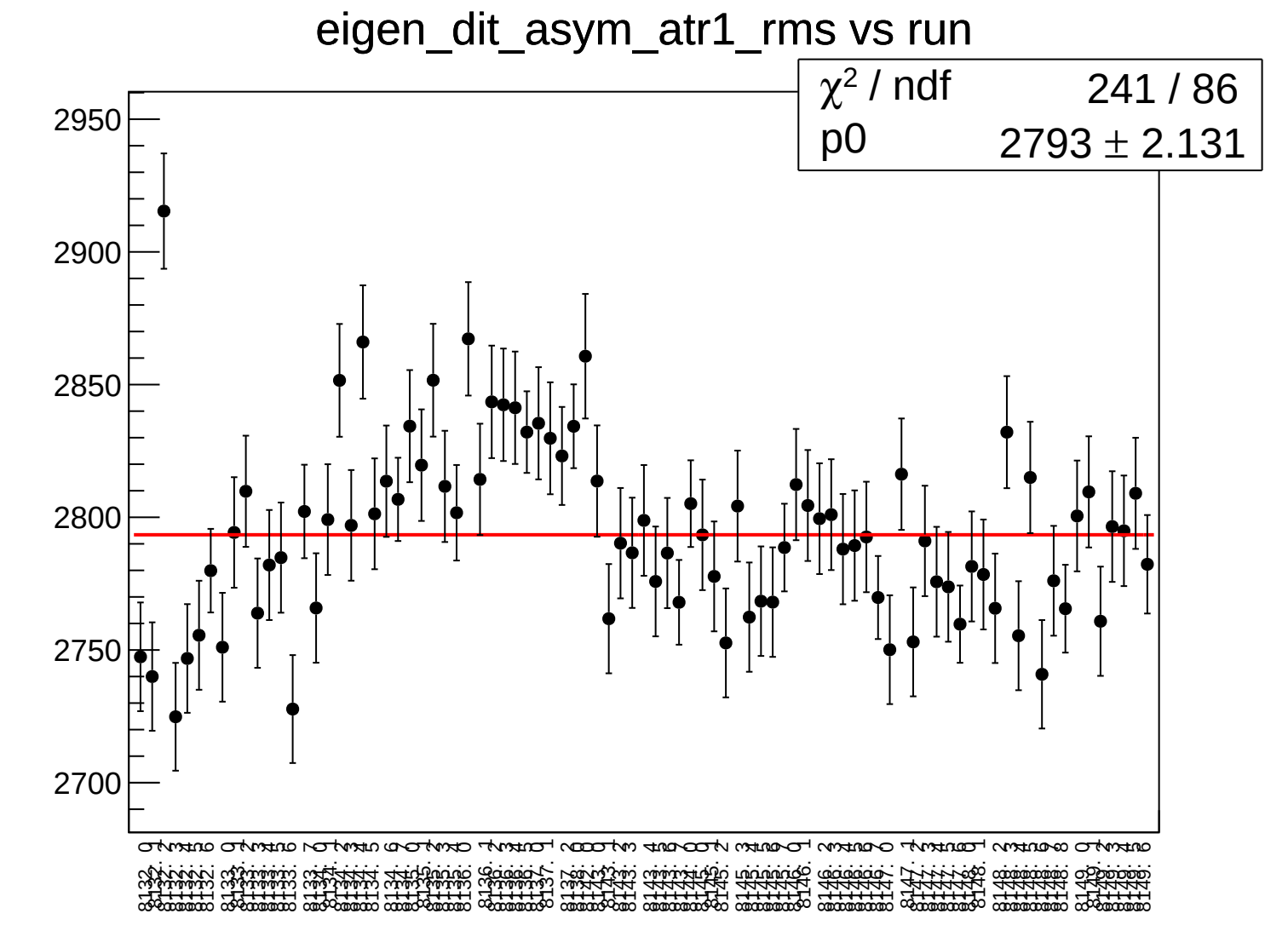

asym_atr1_dit_correction_mean vs run
χ² / ndf 101.4 / 86
p0 −2157 ± 1287
pull
Entries 87
Mean −101.1
Std Dev 0

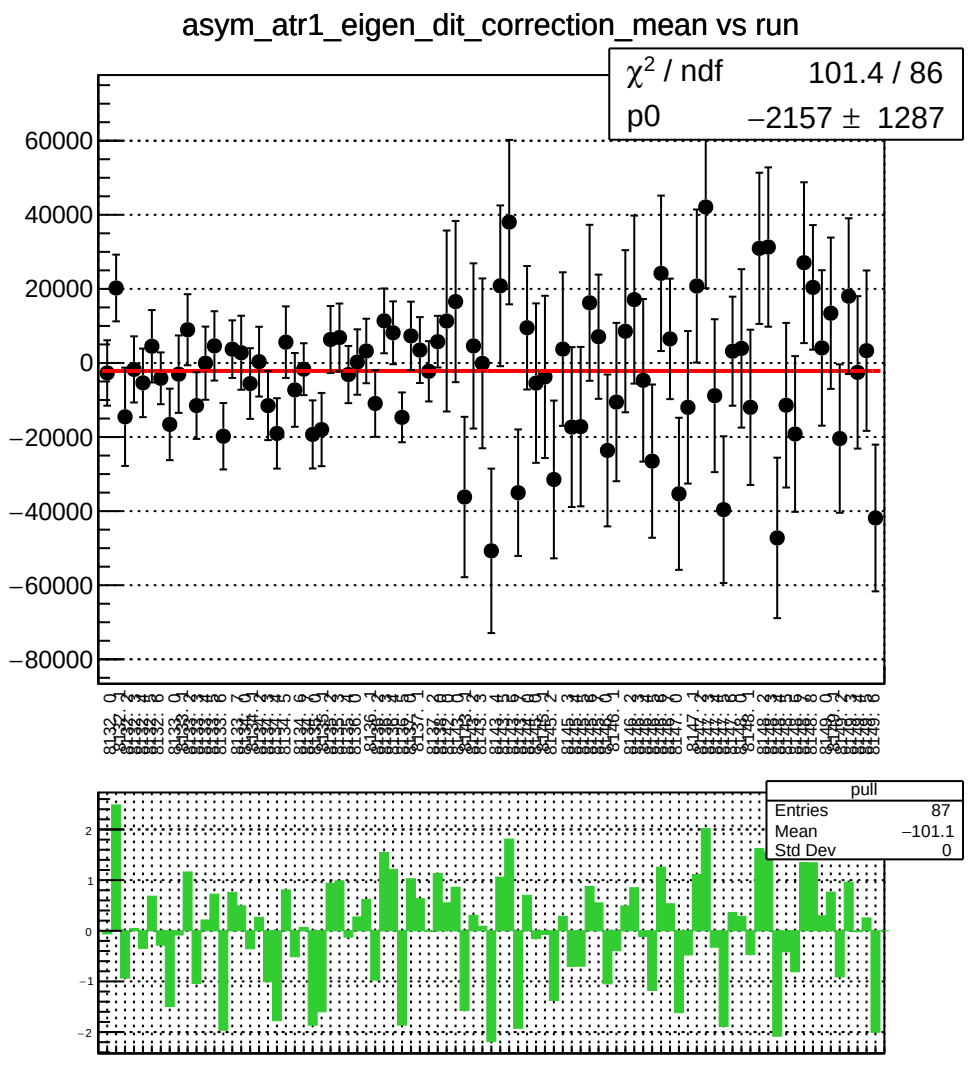

pull1D
Entries 87
Mean −0.006067
Std Dev 1.079

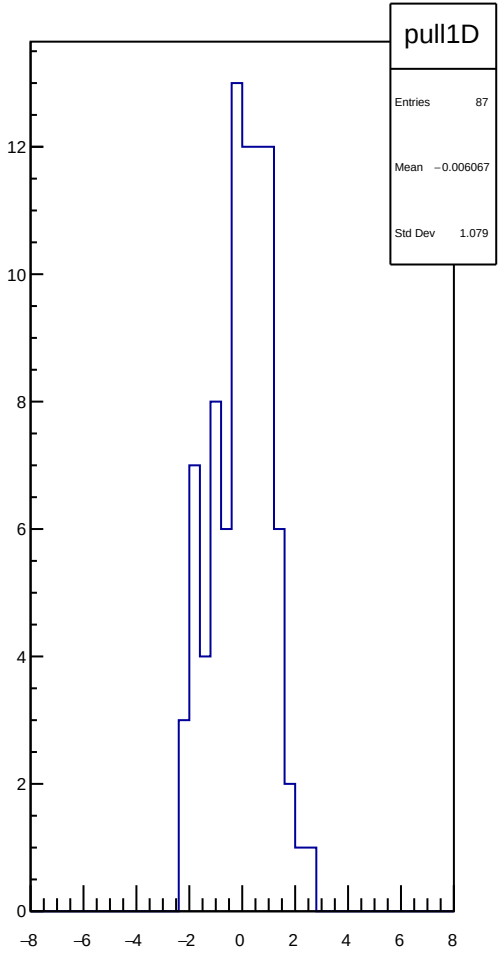

asym_atr1_dit_correction_rms vs run
χ² / ndf 2.487e+05 / 86
p0 1104 ± 0.9103
2200
2000
1800
1600
1400
1200
1000
800

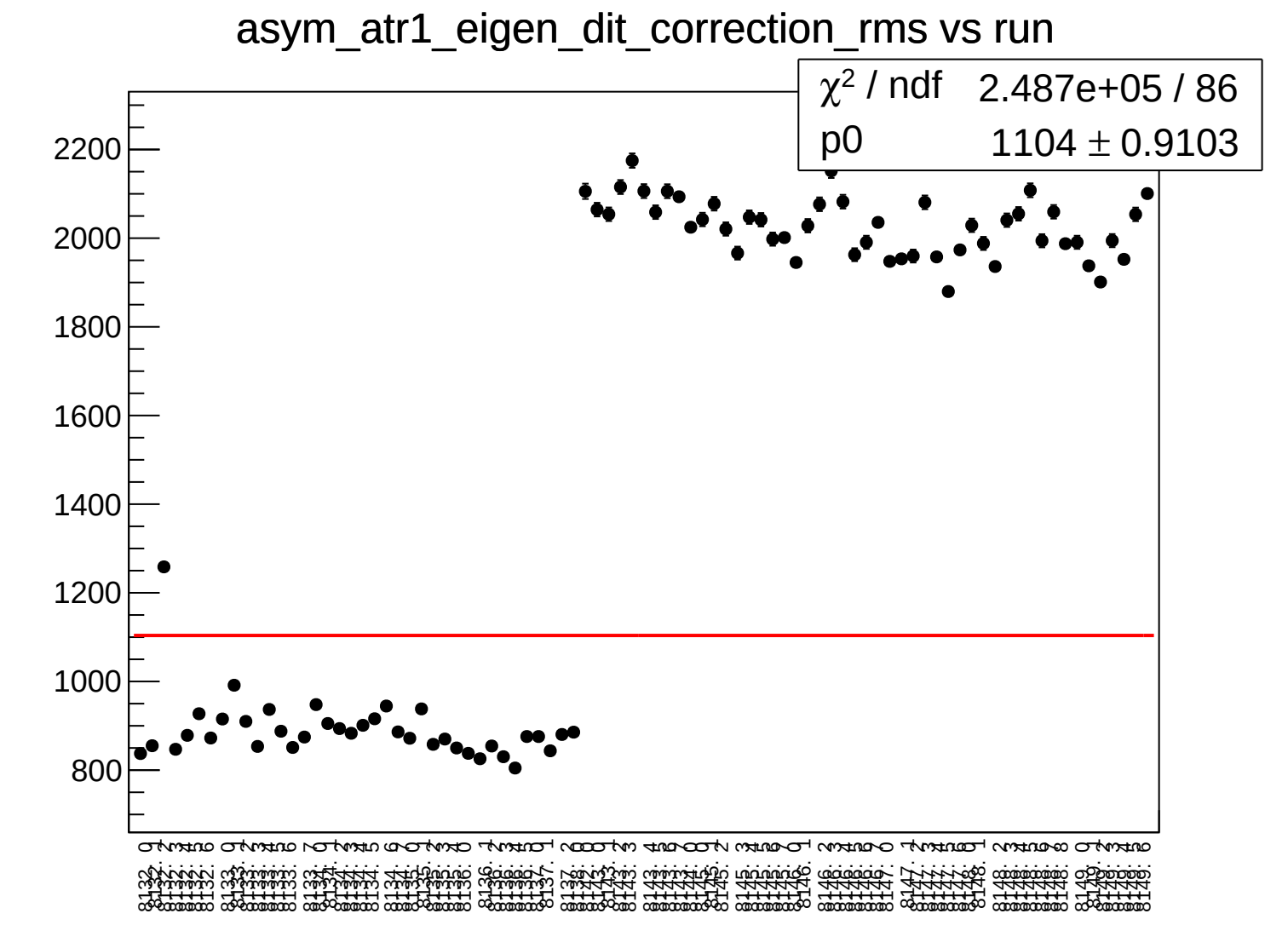

eigen_dit_asym_atr1_mean vs run
×10^3
χ^2 / ndf 78.79 / 86
p0 2101 ± 3013
100
50
0
−50
−100
pull
Entries 87
Mean −173.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

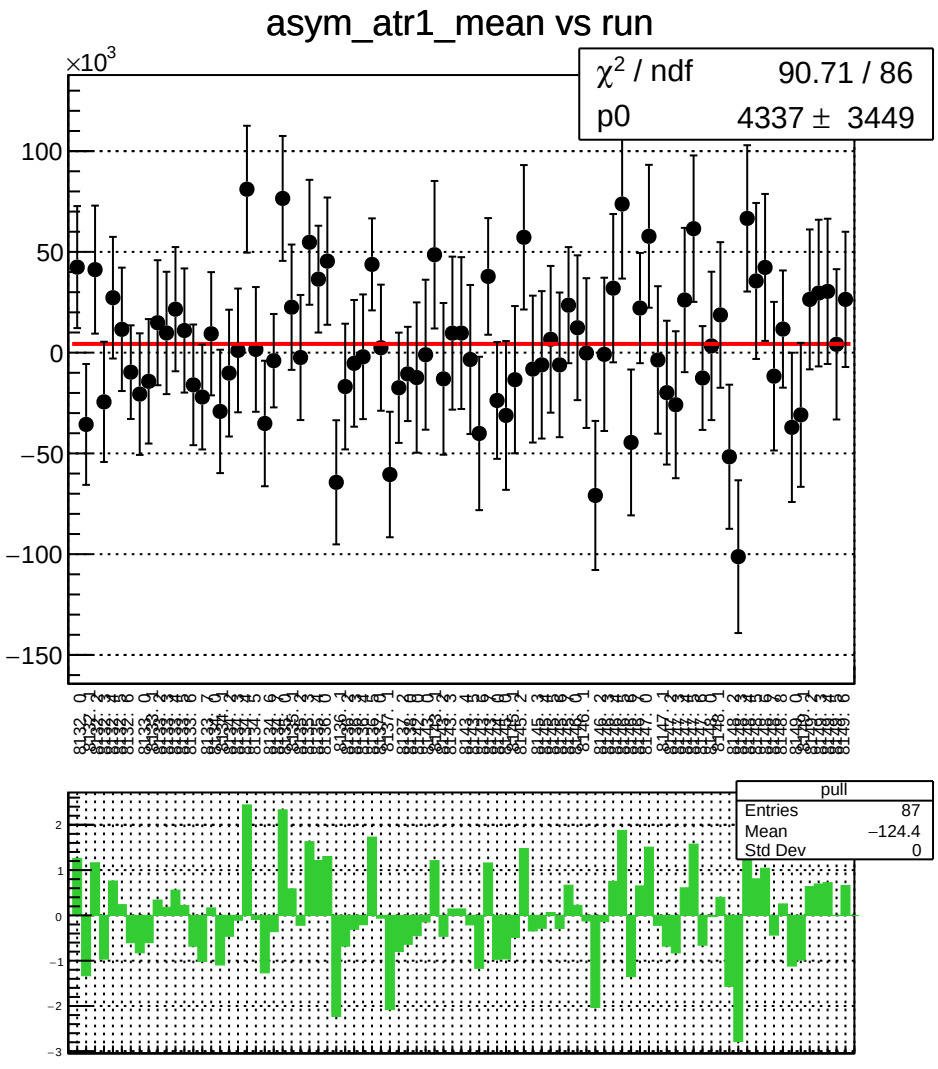

pull1D
Entries 87
Mean −0.005033
Std Dev 0.9516
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

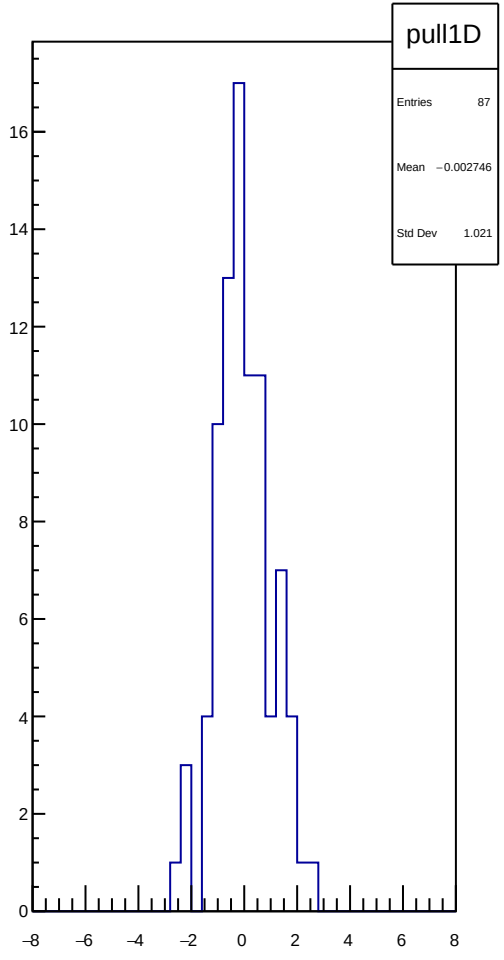

eigen_dit_asym_atr1_rms vs run
χ² / ndf 241 / 86
p0 2793 ± 2.131
2950
2900
2850
2800
2750
2700

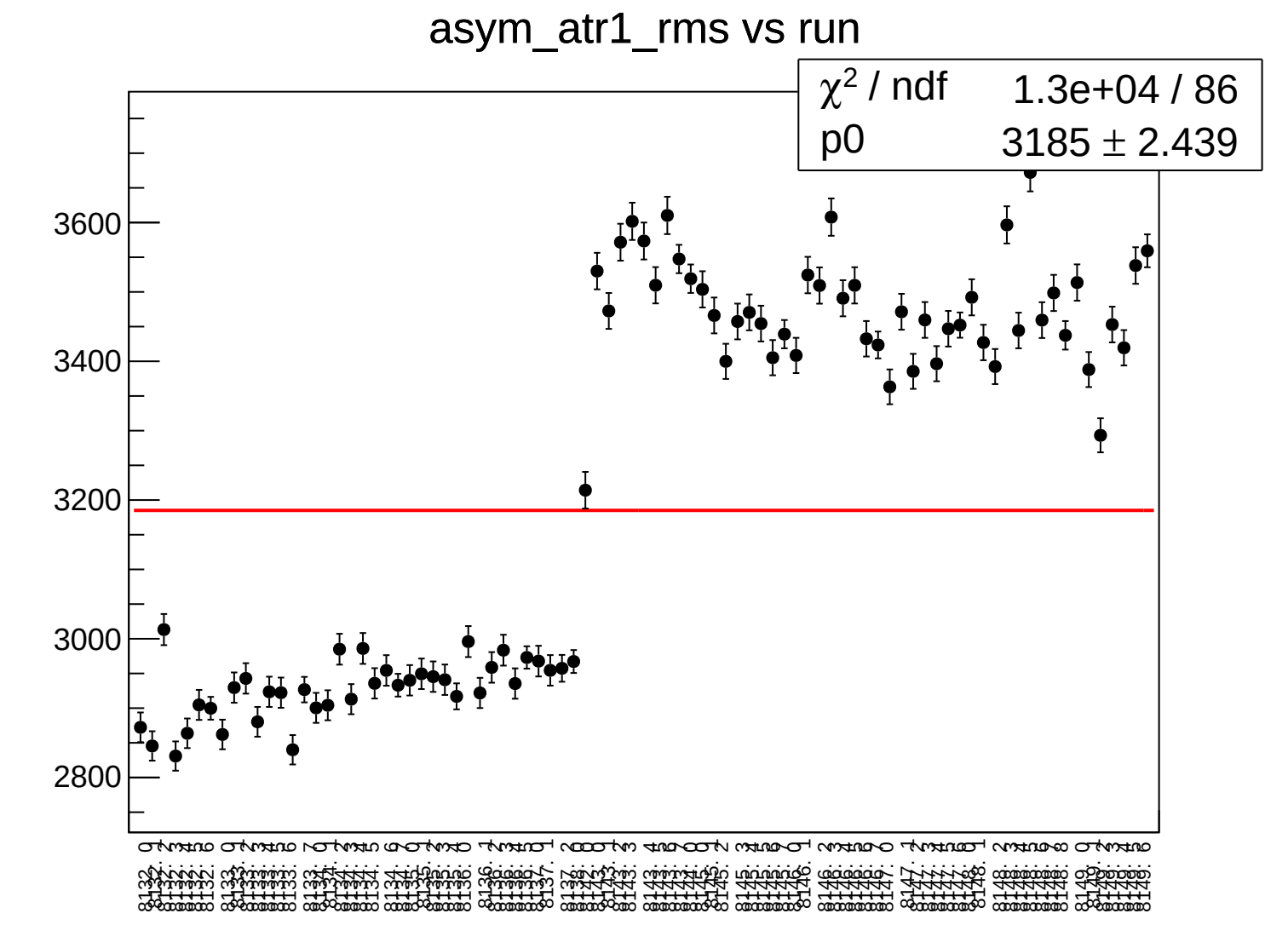

asym_atr1_eigen_dit_correction_mean vs run
χ² / ndf 101.4 / 86
p0 −2157 ± 1287
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean −101.1
Std Dev 0
2
1
0
−1
−2

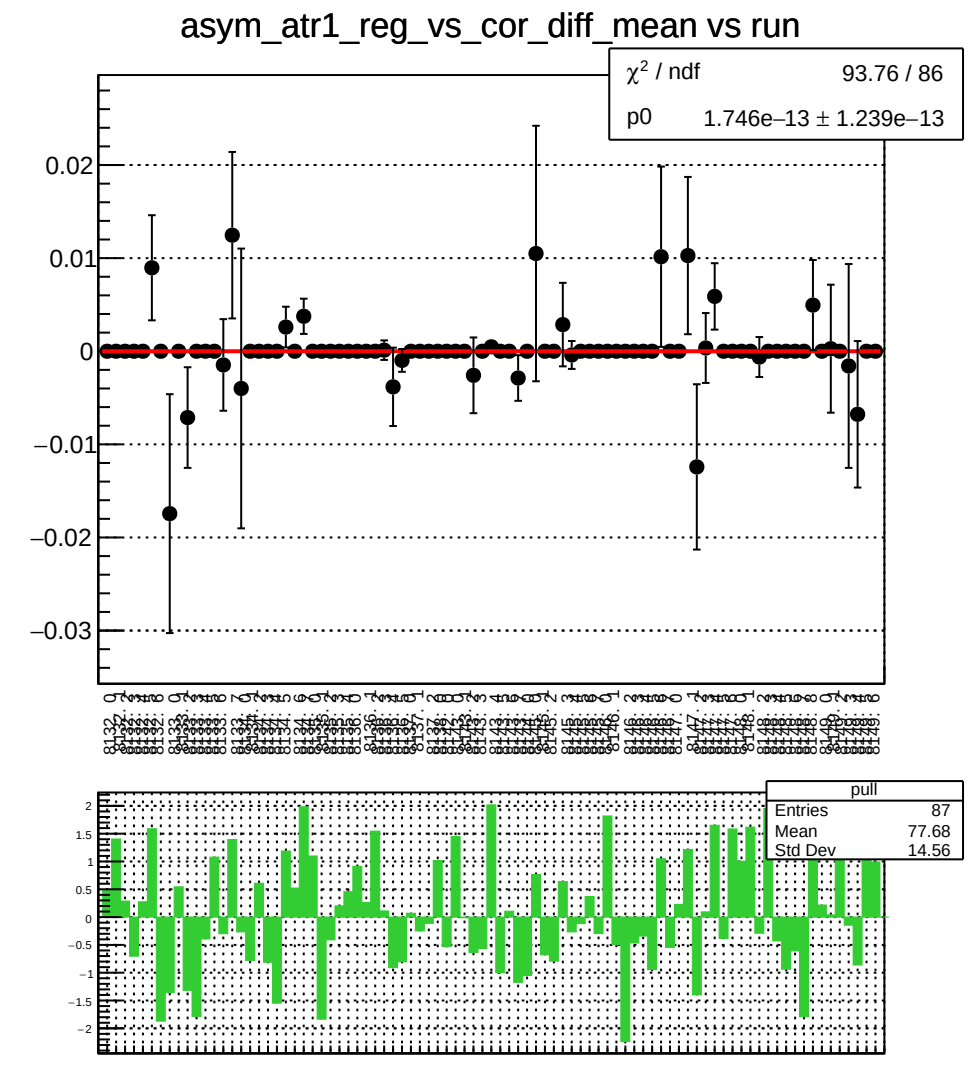

pull1D
Entries 87
Mean −0.006067
Std Dev 1.079
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

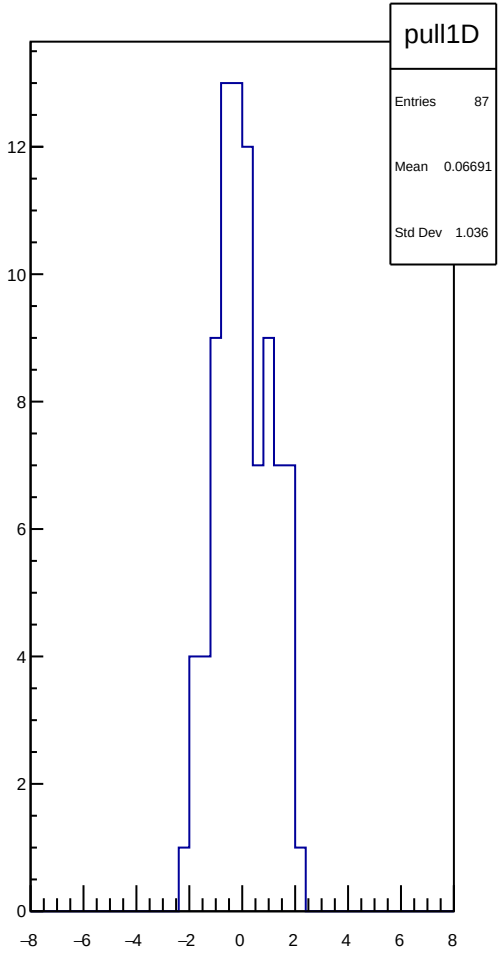

asym_atr1_eigen_dit_correction_rms vs run
χ² / ndf 2.487e+05 / 86
p0 1104 ± 0.9103
2200
2000
1800
1600
1400
1200
1000
800

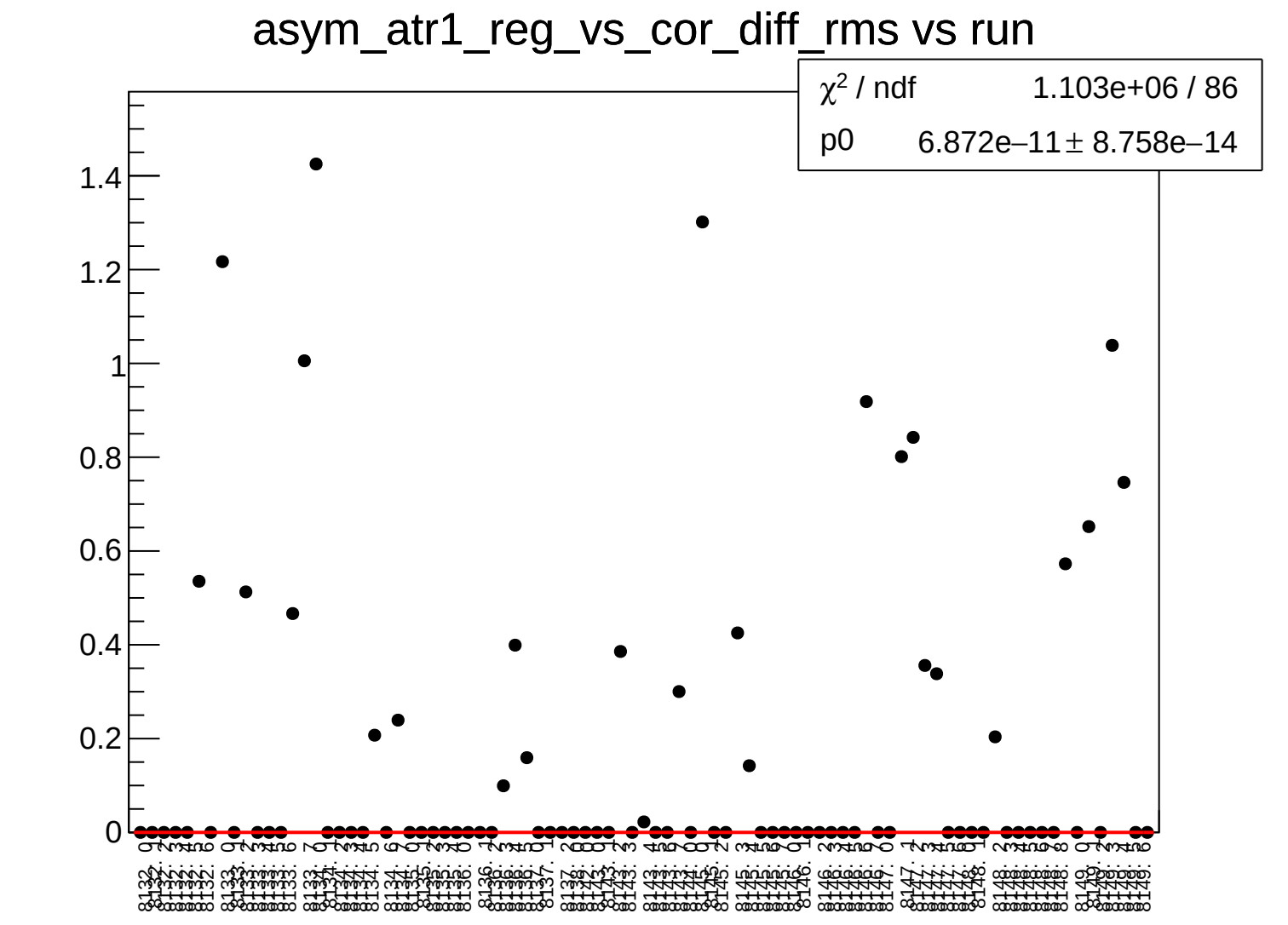

asym_atr1_mean vs run
×10^3
χ^2 / ndf 90.71 / 86
p0 4337 ± 3449
100
50
0
−50
−100
−150
pull
Entries 87
Mean −124.4
Std Dev 0
2
1
0
−1
−2
−3

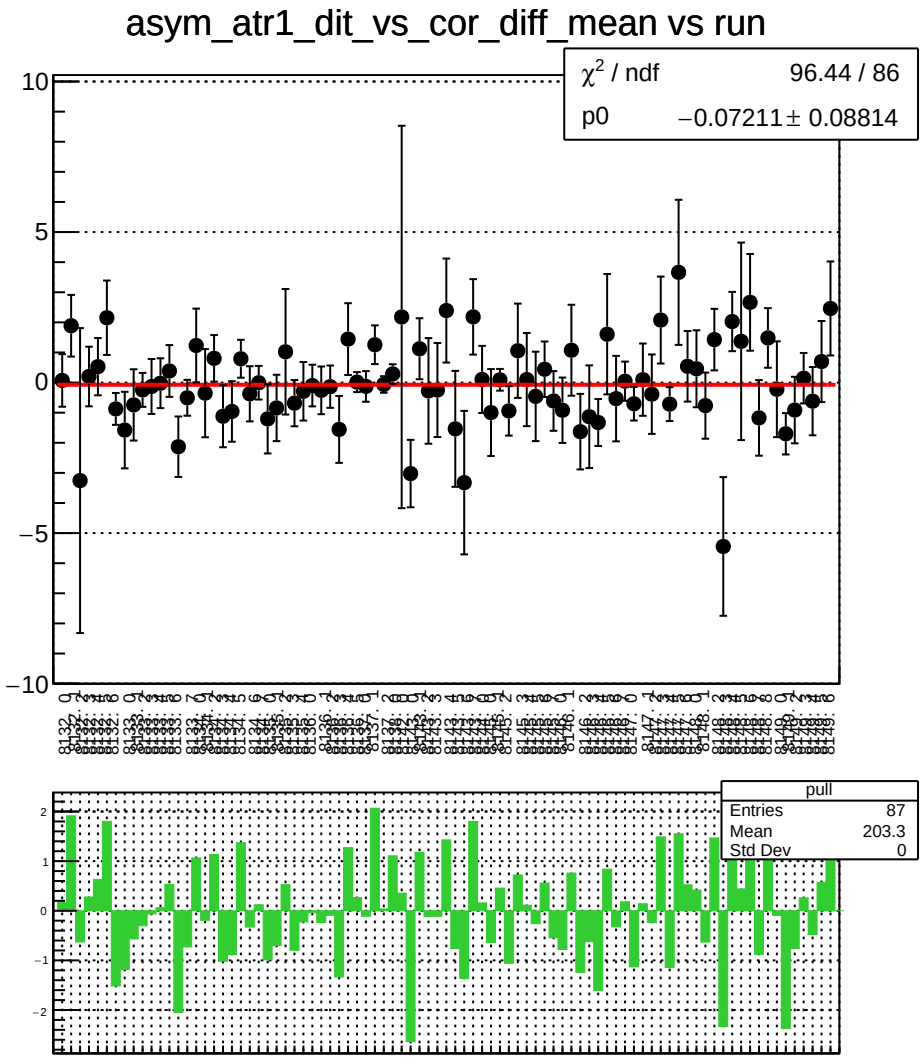

pull1D
Entries 87
Mean −0.002746
Std Dev 1.021
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

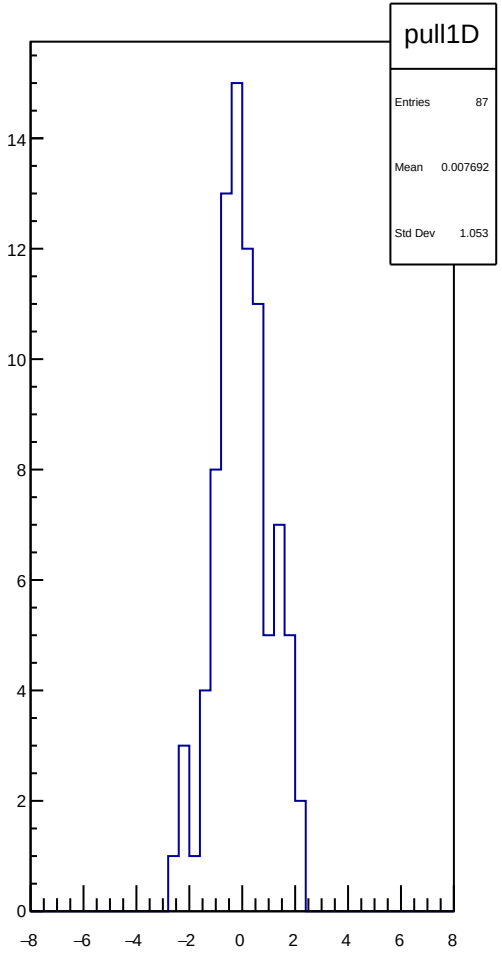

asym_atr1_rms vs run
χ² / ndf 1.3e+04 / 86
p0 3185 ± 2.439
3600
3400
3200
3000
2800

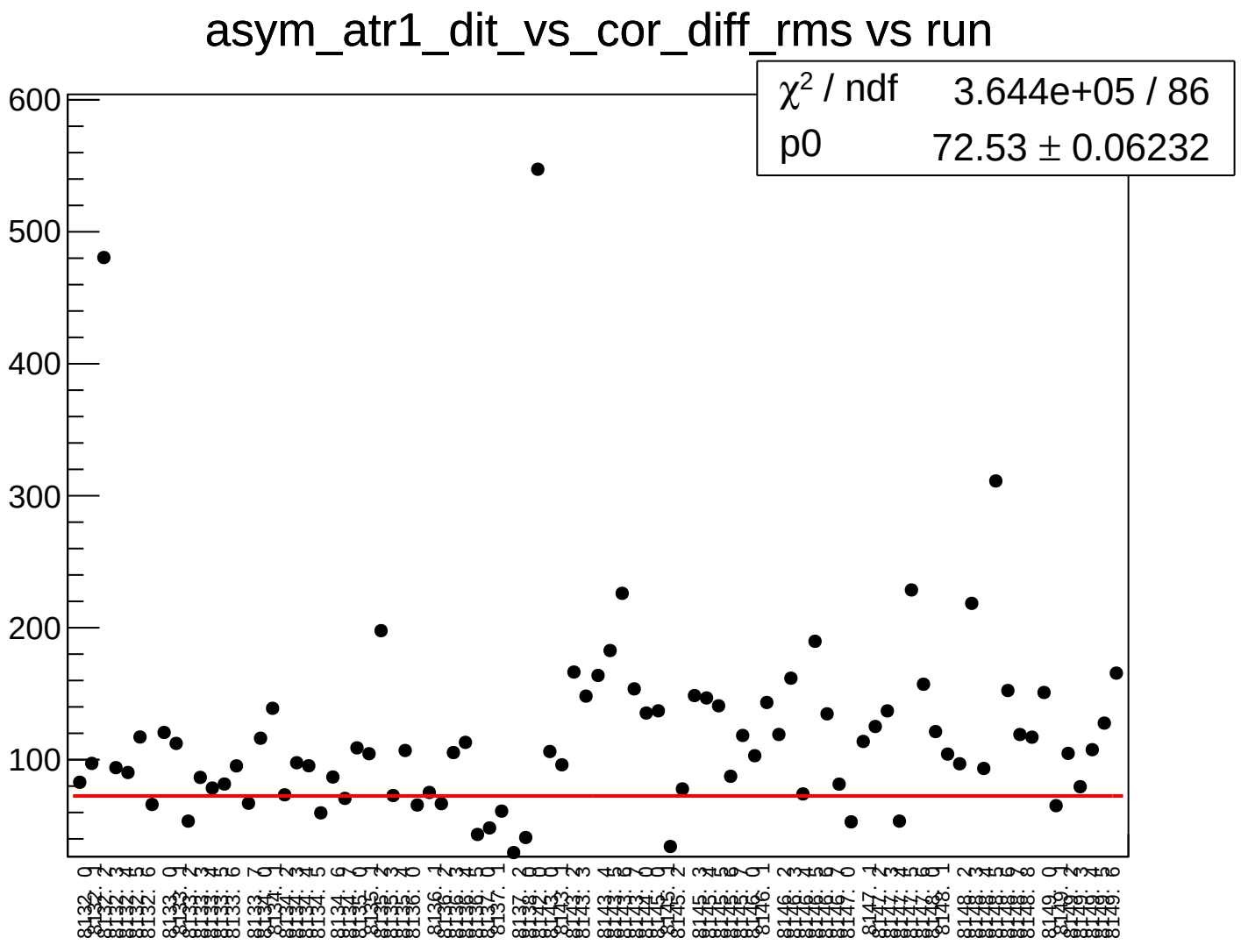

asym_atr1_reg_vs_cor_diff_mean vs run
χ² / ndf 93.76 / 86
p0 1.746e−13 ± 1.239e−13
pull
Entries 87
Mean 77.68
Std Dev 14.56

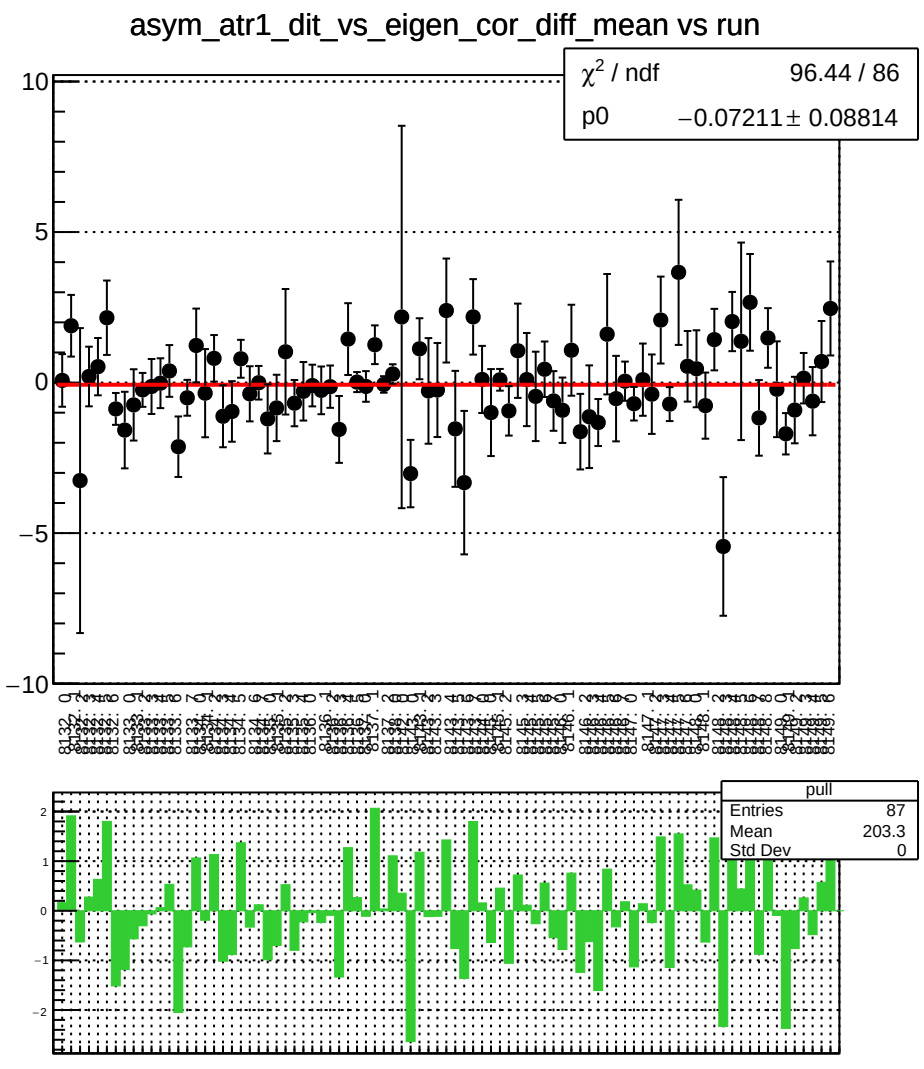

pull1D
Entries 87
Mean 0.06691
Std Dev 1.036

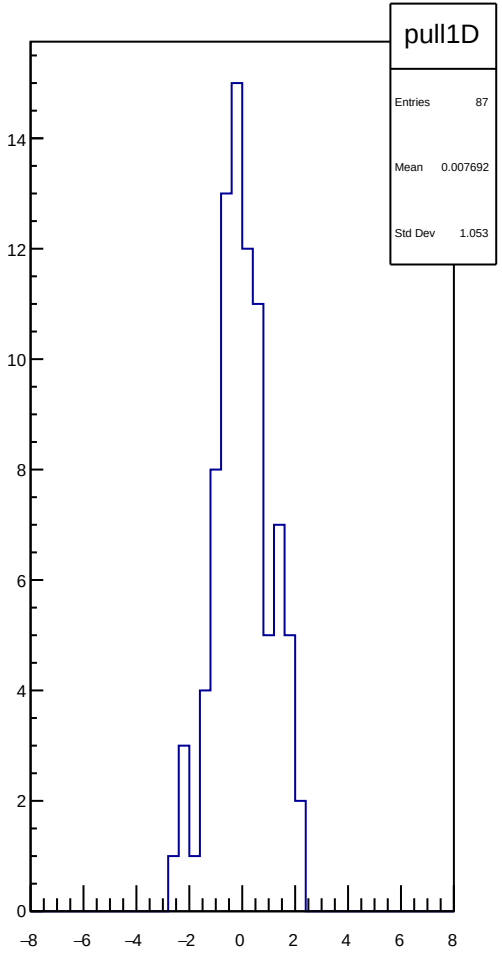

asym_atr1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.103e+06 / 86
p0 6.872e−11 ± 8.758e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

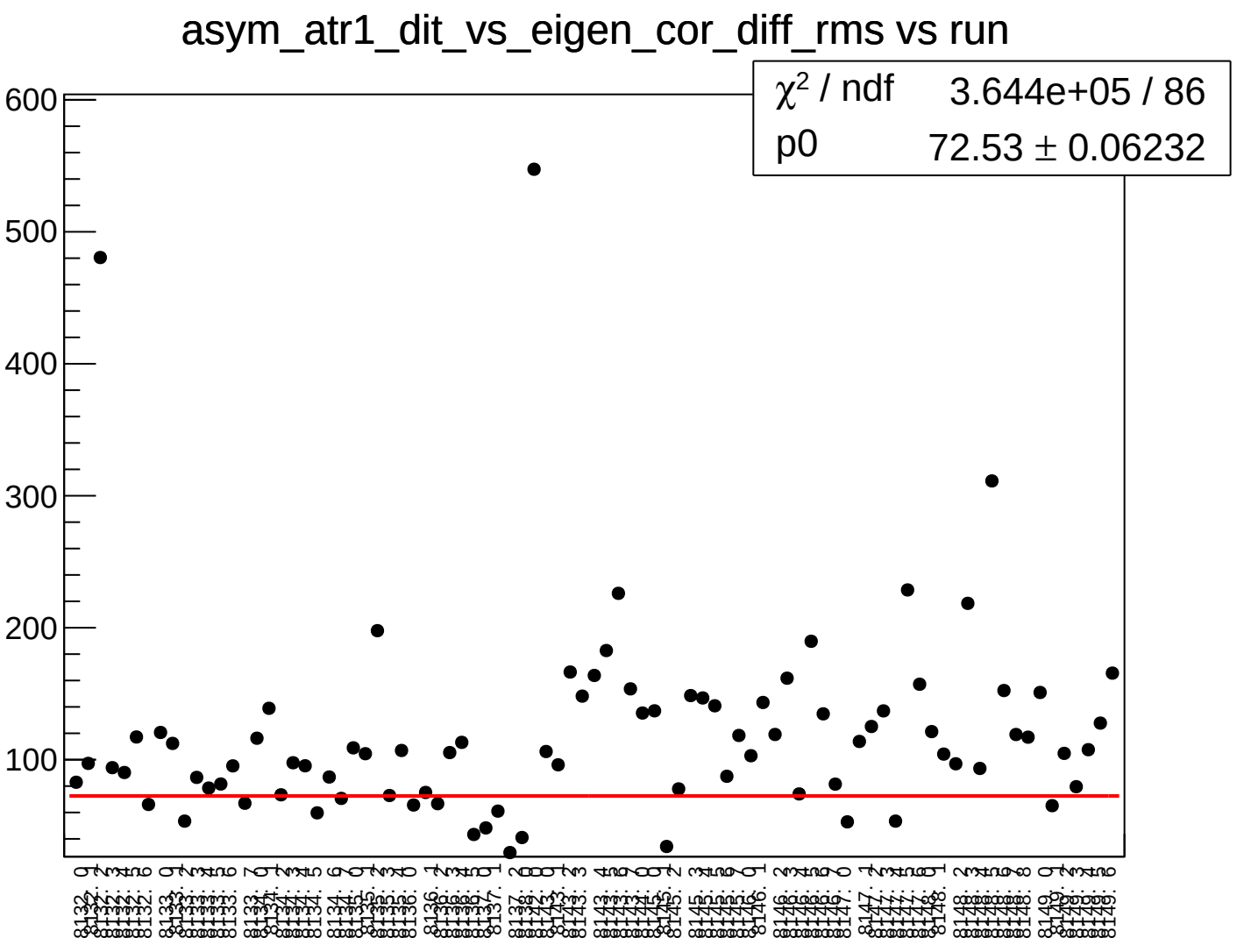

asym_atr1_dit_vs_cor_diff_mean vs run
χ² / ndf 96.44 / 86
p0 −0.07211 ± 0.08814
pull
Entries 87
Mean 203.3
Std Dev 0

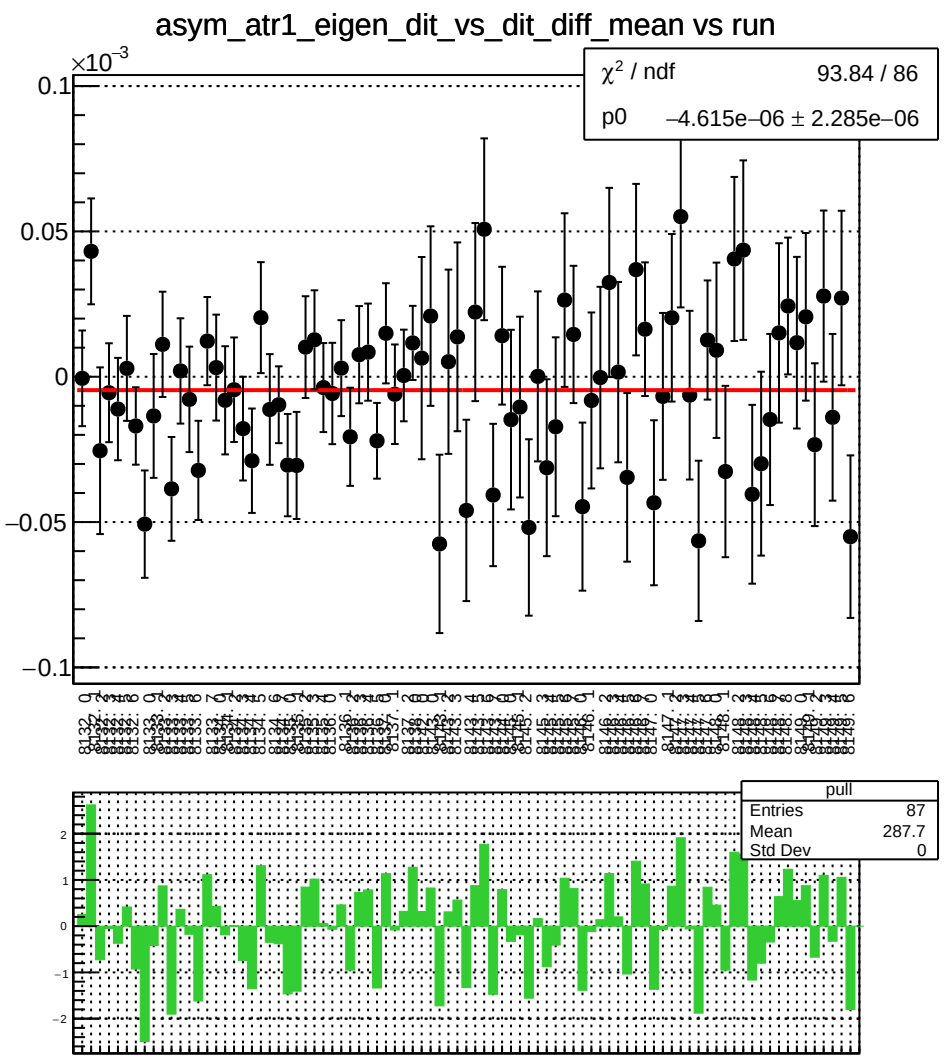

pull1D
Entries 87
Mean 0.007692
Std Dev 1.053

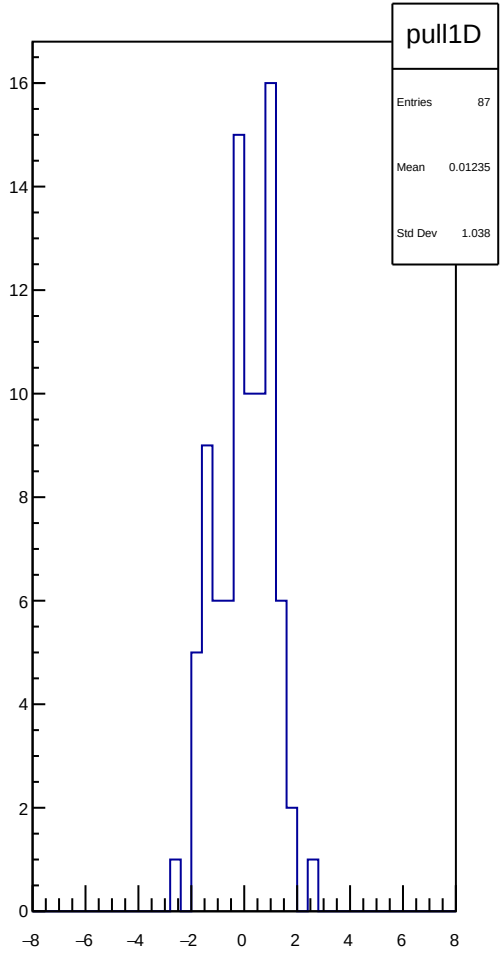

asym_atr1_dit_vs_cor_diff_rms vs run
χ² / ndf 3.644e+05 / 86
p0 72.53 ± 0.06232
600
500
400
300
200
100

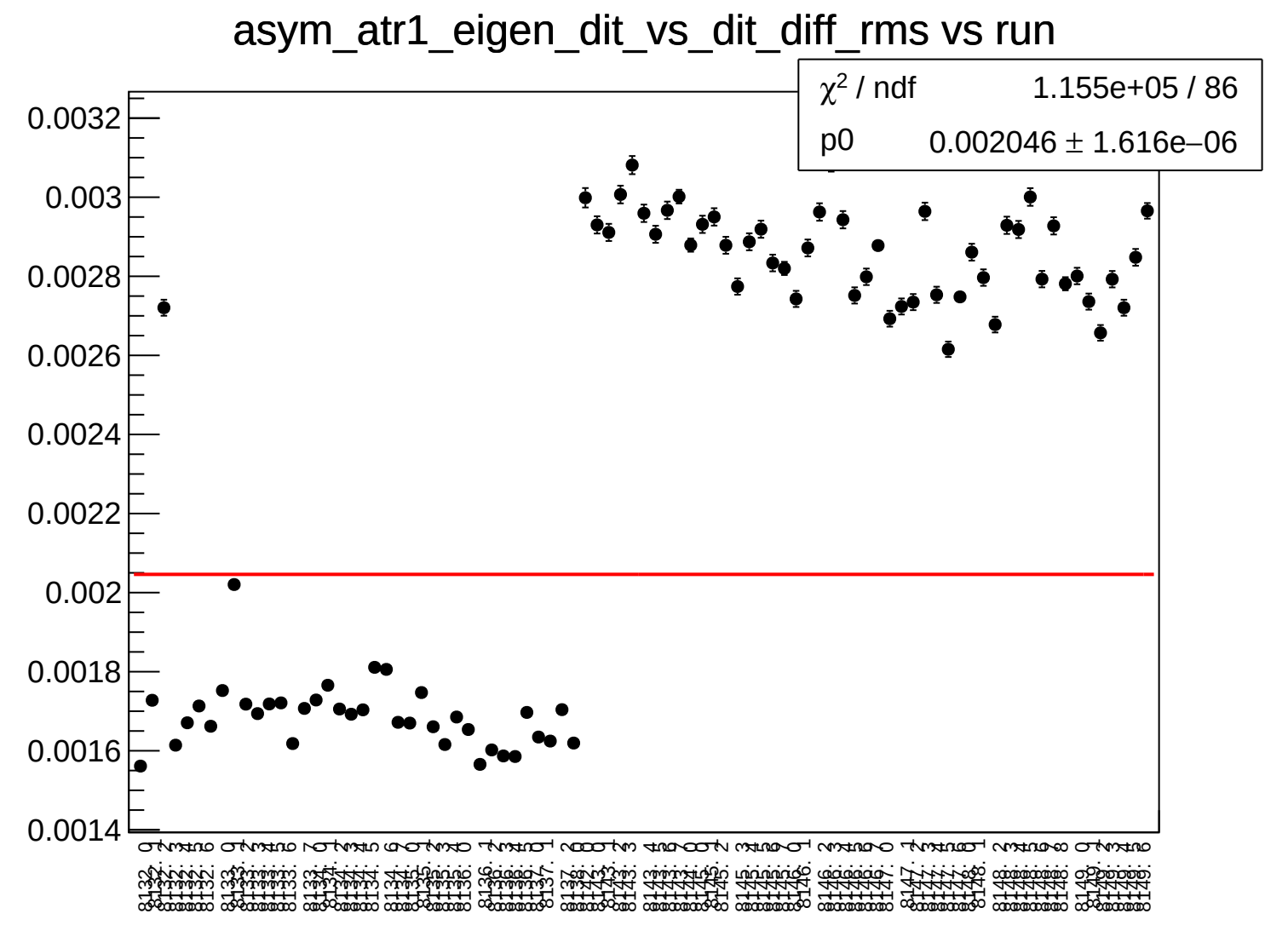

asym_atr1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.44 / 86
p0 −0.07211 ± 0.08814
pull
Entries 87
Mean 203.3
Std Dev 0

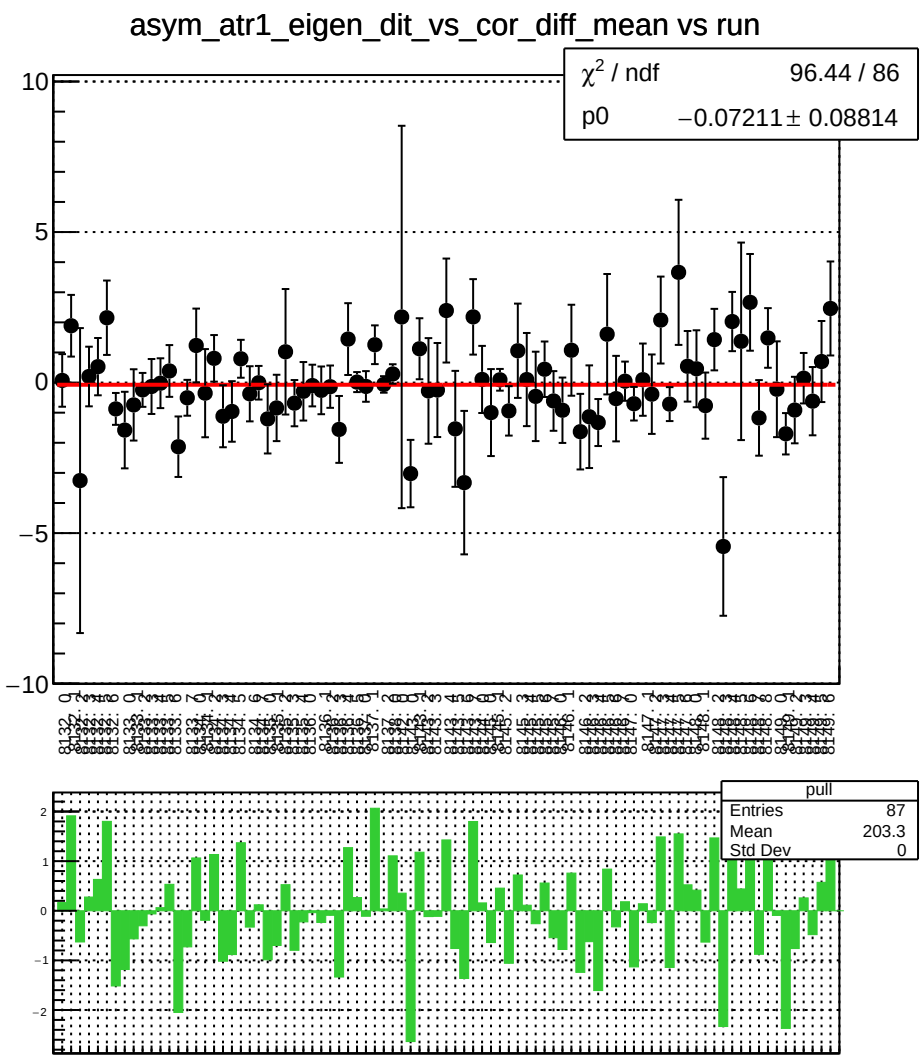

pull1D
Entries 87
Mean 0.007692
Std Dev 1.053

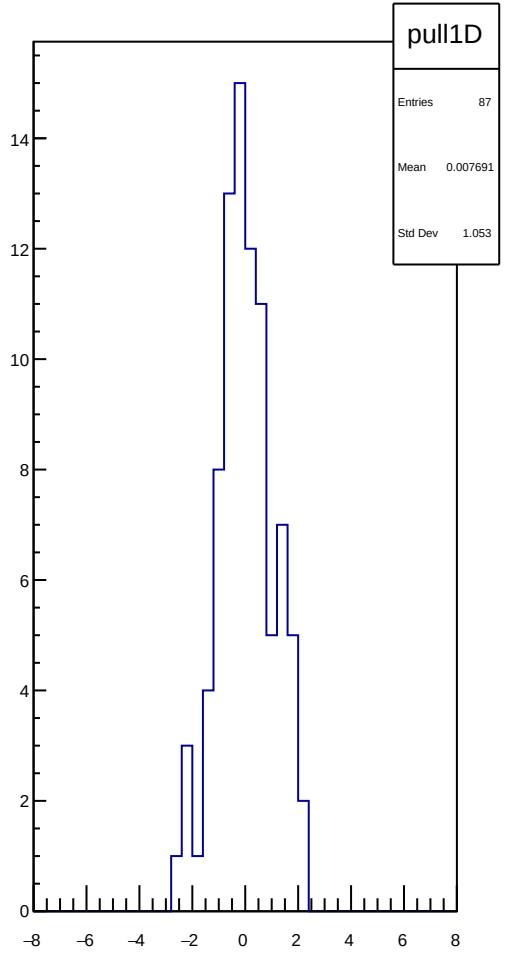

asym_atr1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.644e+05 / 86
p0 72.53 ± 0.06232
600
500
400
300
200
100

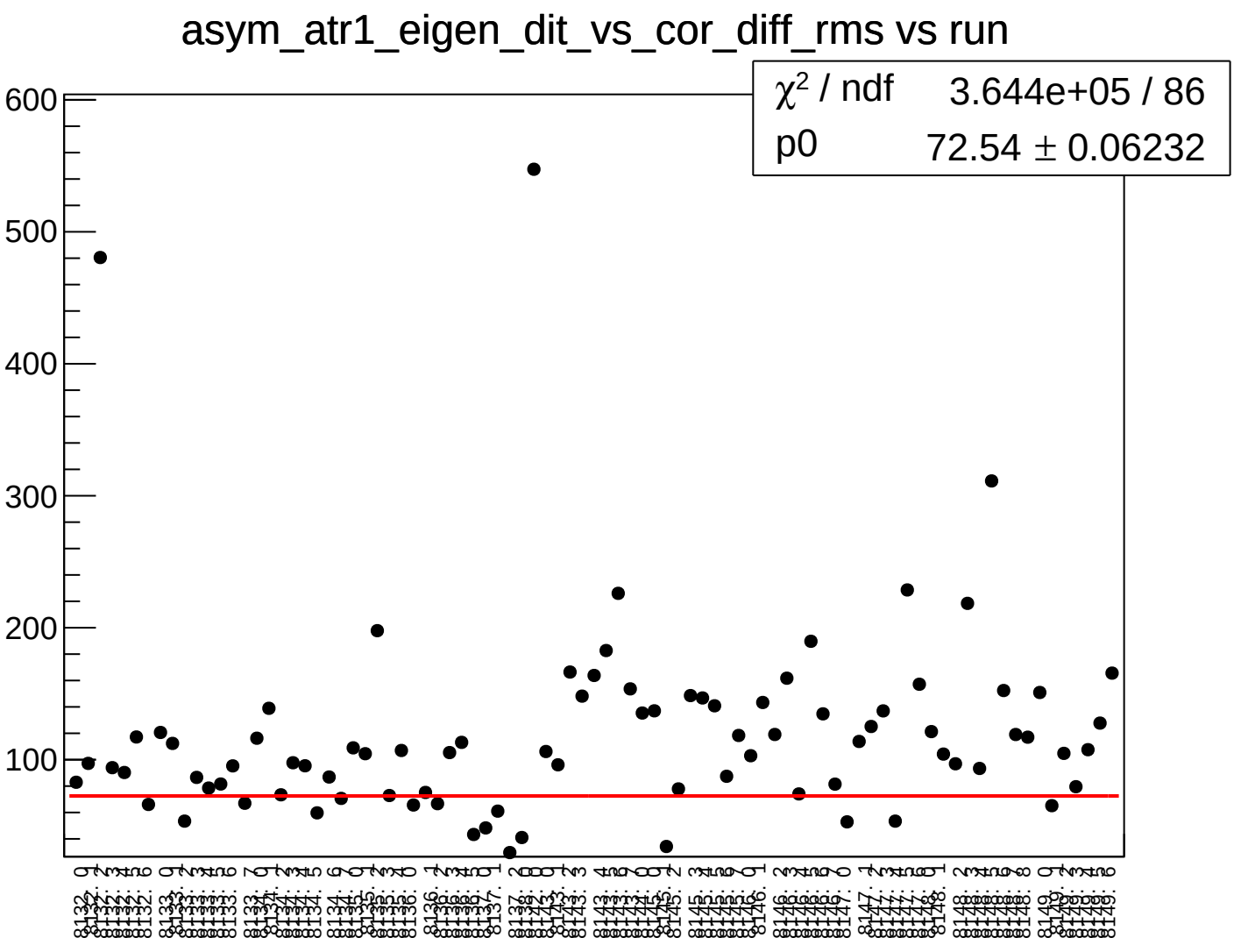

asym_atr1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.84 / 86
p0 −4.615e−06 ± 2.285e−06
pull
Entries 87
Mean 287.7
Std Dev 0

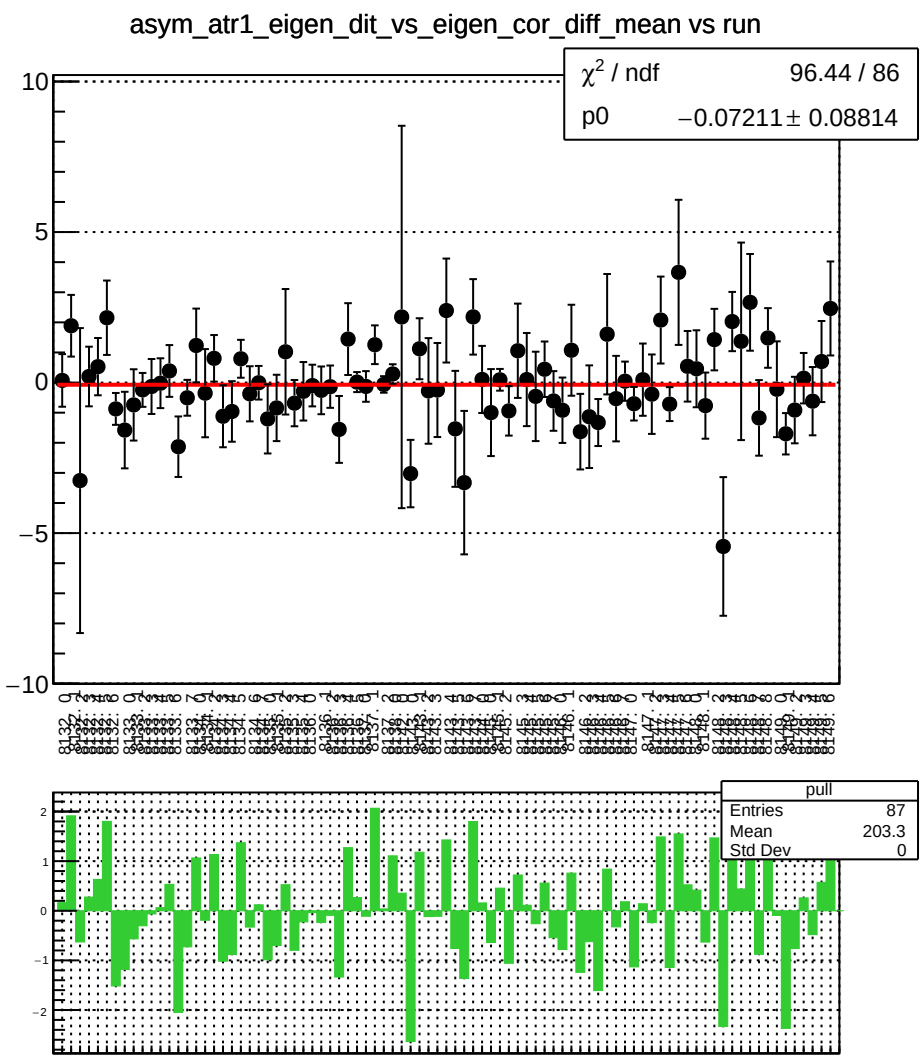

pull1D
Entries 87
Mean 0.01235
Std Dev 1.038

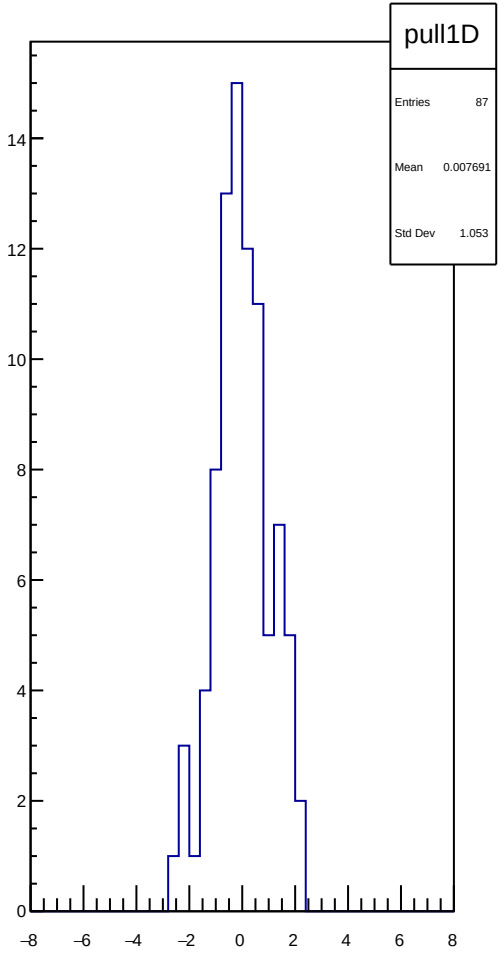

asym_atr1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.155e+05 / 86
p0 0.002046 ± 1.616e−06
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014

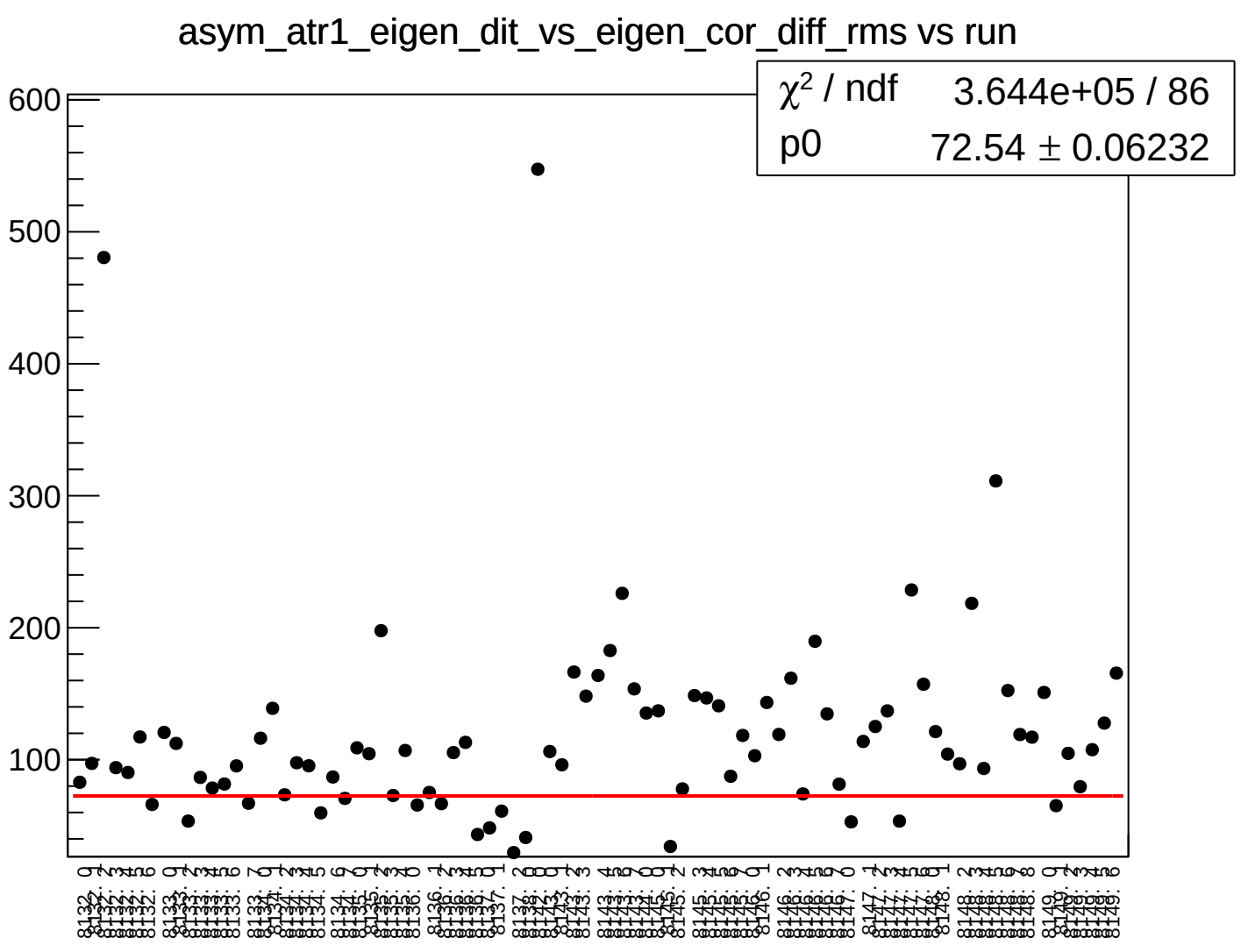

asym_atr1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 96.44 / 86
p0 −0.07211 ± 0.08814
pull
Entries 87
Mean 203.3
Std Dev 0

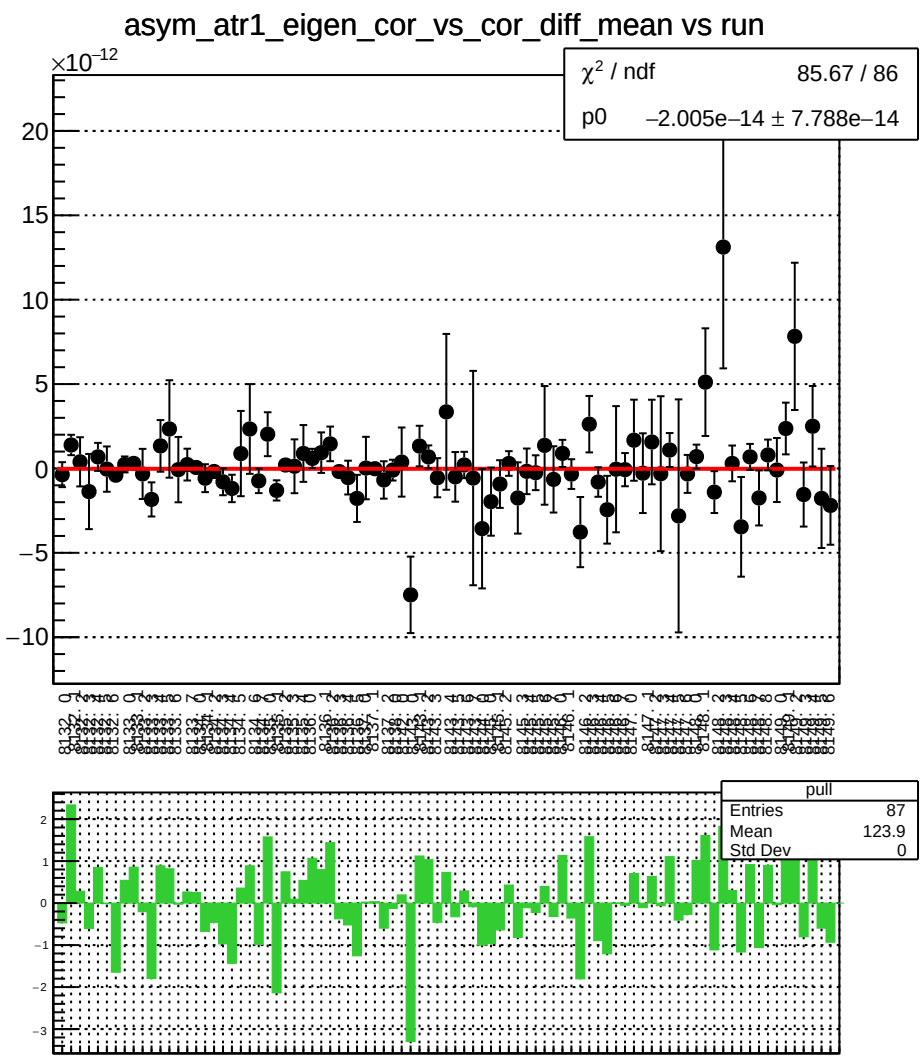

pull1D
Entries 87
Mean 0.007691
Std Dev 1.053

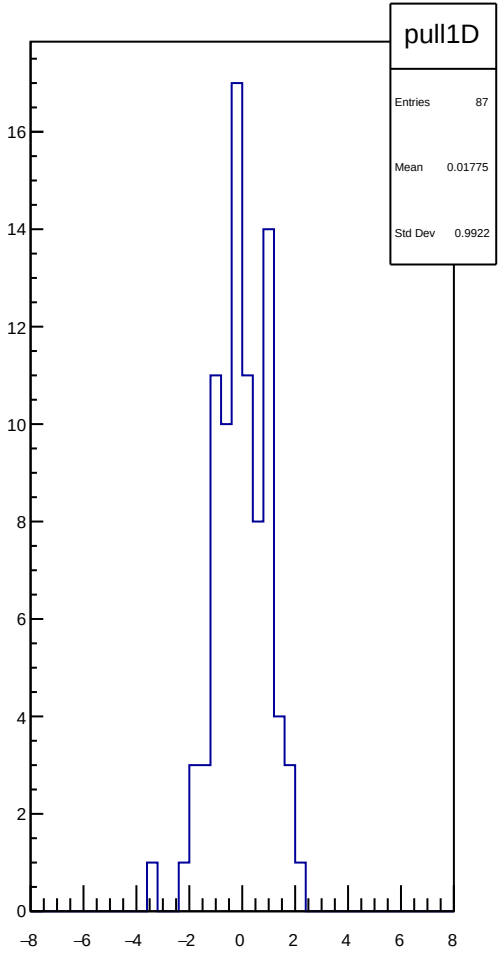

asym_atr1_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.644e+05 / 86
p0 72.54 ± 0.06232
600
500
400
300
200
100

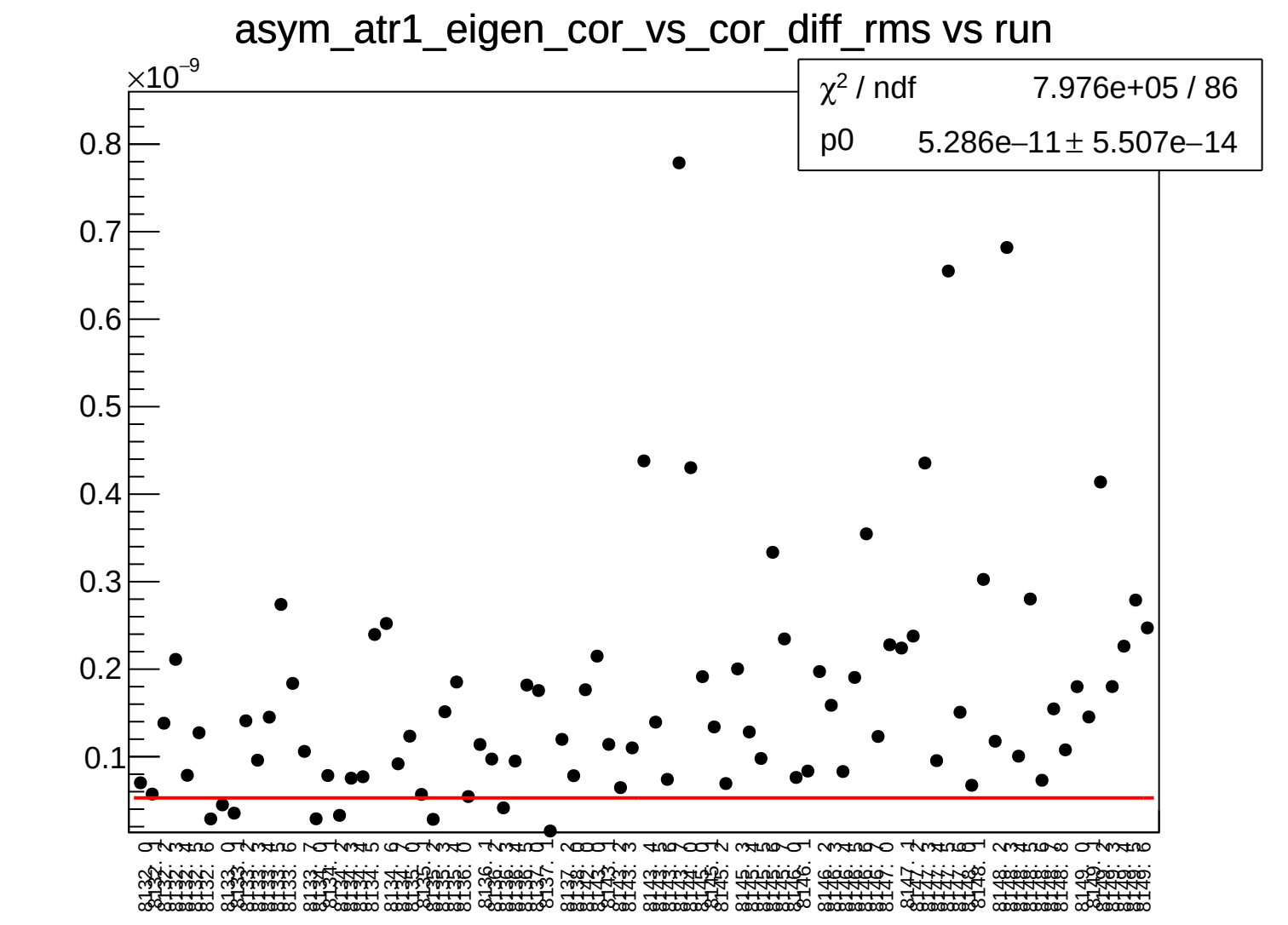

asym_atr1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.44 / 86
p0 −0.07211 ± 0.08814
pull
Entries 87
Mean 203.3
Std Dev 0

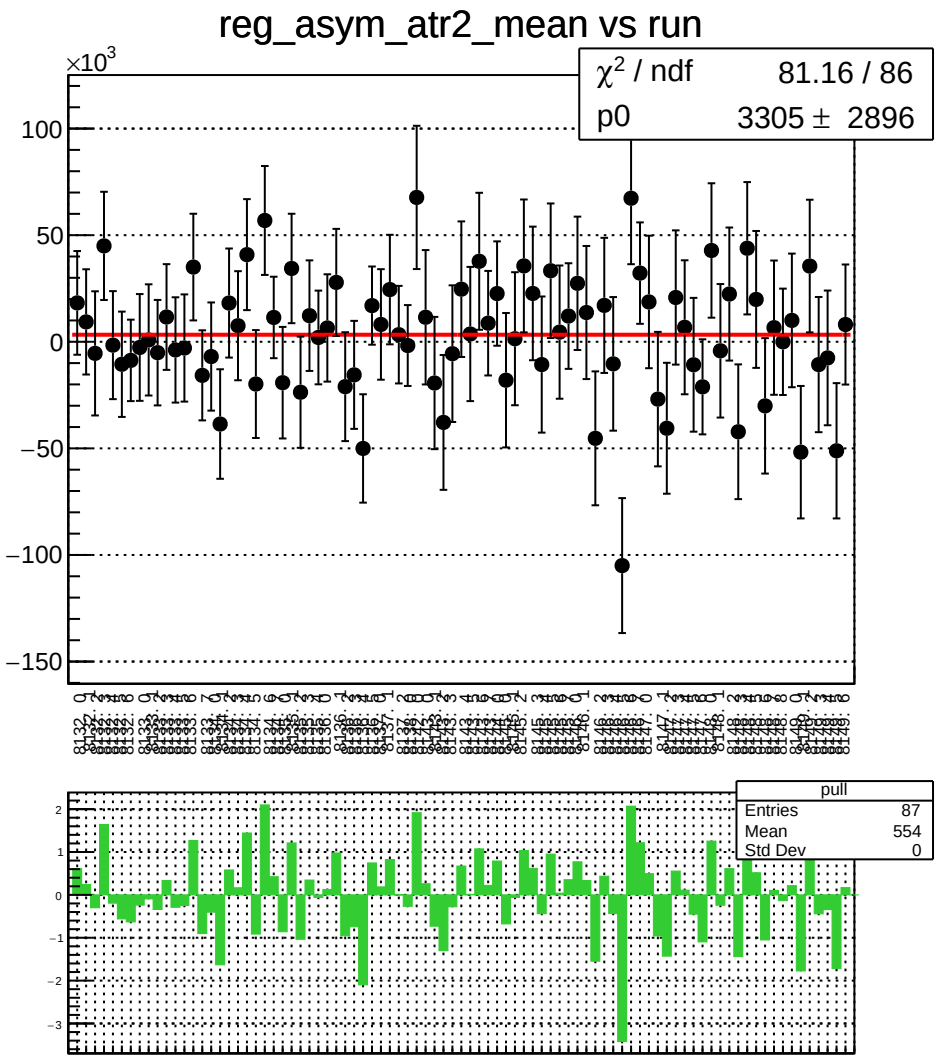

pull1D
Entries 87
Mean 0.007691
Std Dev 1.053

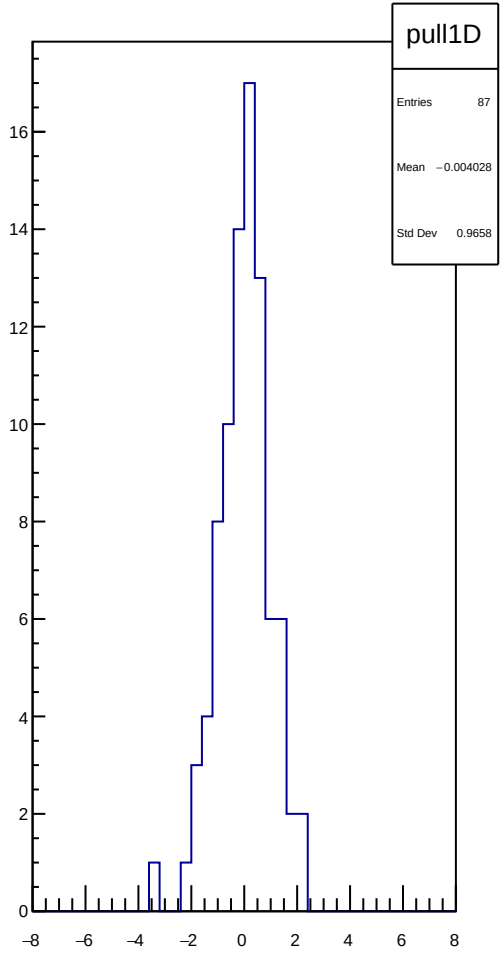

asym_atr1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.644e+05 / 86
p0 72.54 ± 0.06232
600
500
400
300
200
100

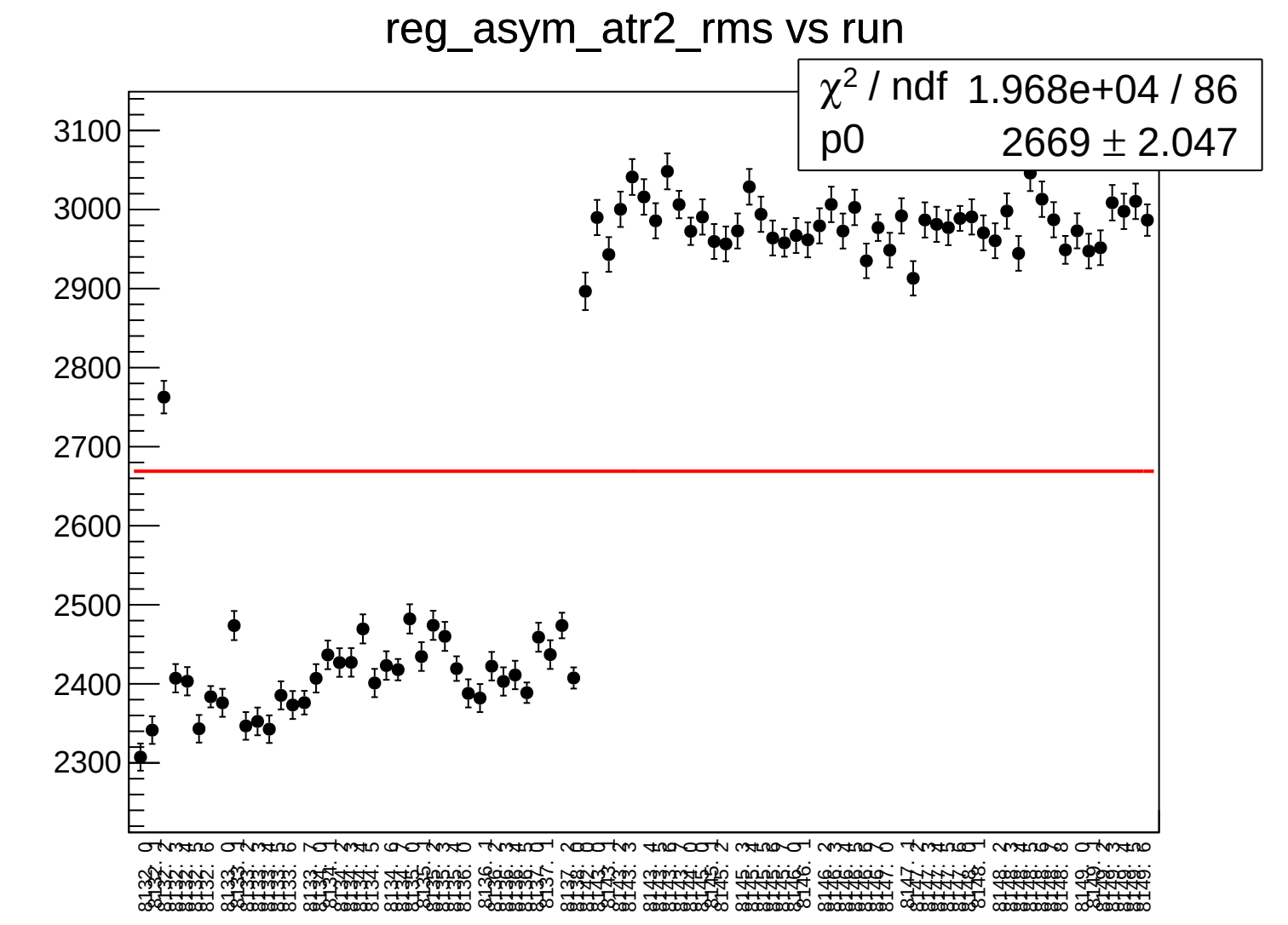

asym_atr1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.67 / 86
p0 −2.005e−14 ± 7.788e−14
pull
Entries 87
Mean 123.9
Std Dev 0

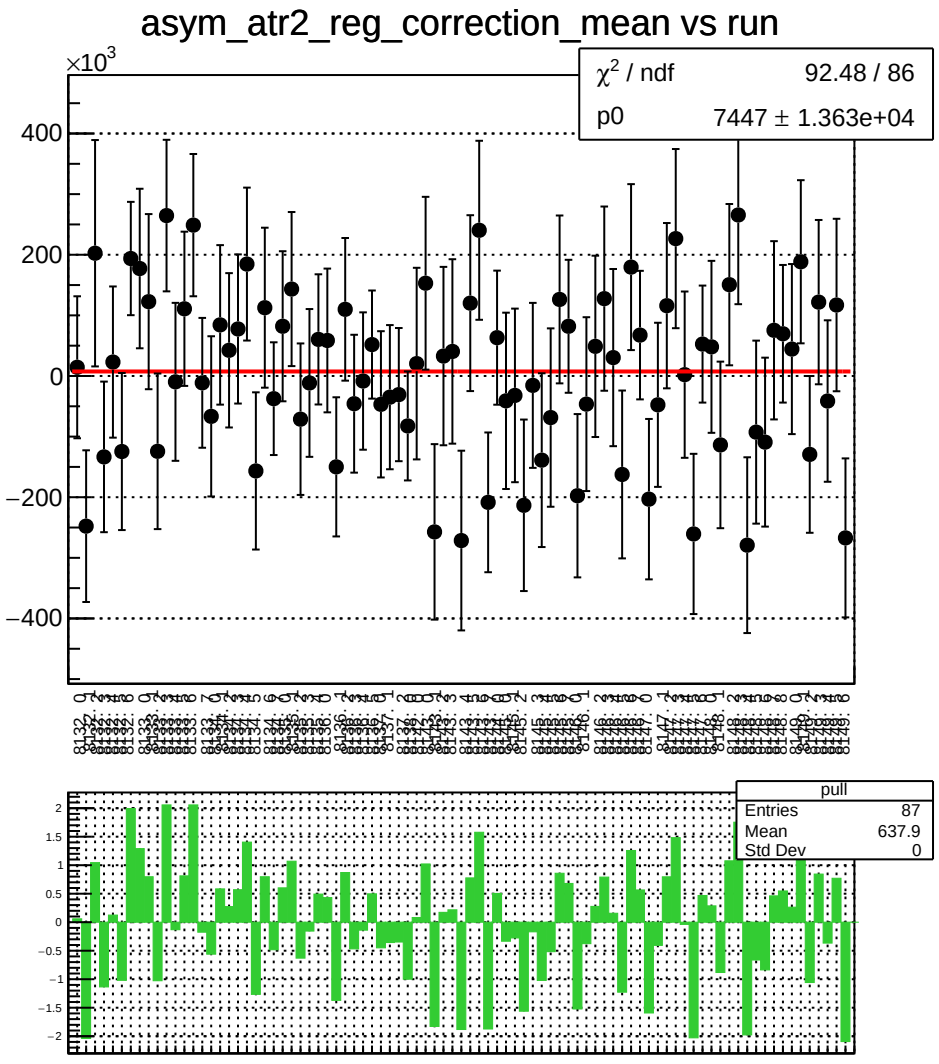

pull1D
Entries 87
Mean 0.01775
Std Dev 0.9922

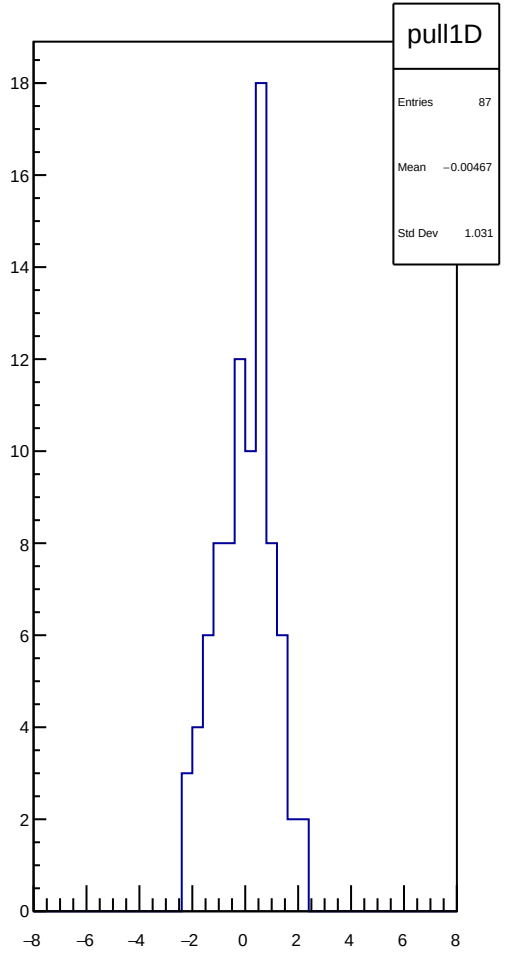

asym_atr1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.976e+05 / 86
p0 5.286e−11 ± 5.507e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

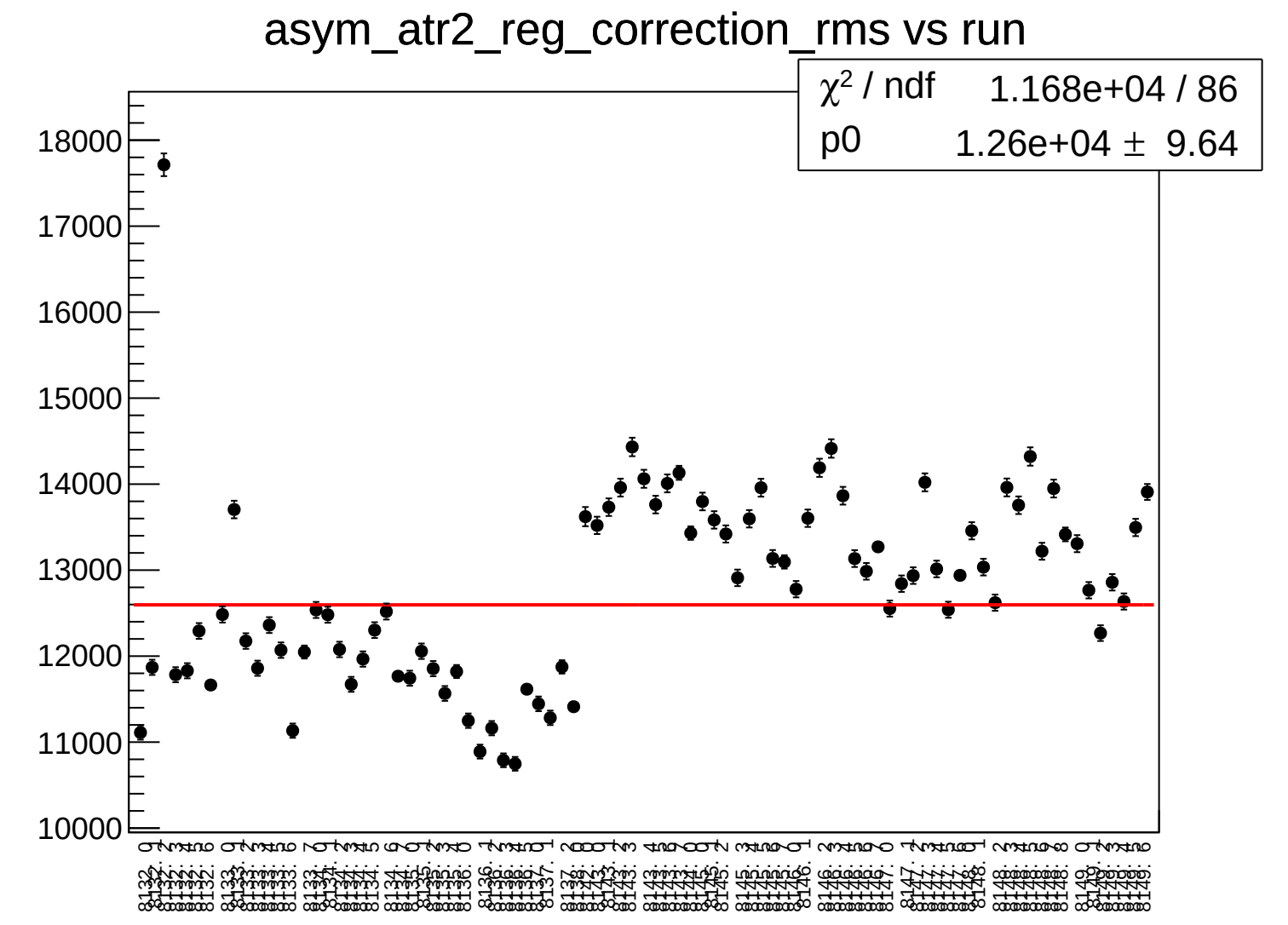

reg_asym_atr2_mean vs run
×10^3
χ^2 / ndf 81.16 / 86
p0 3305 ± 2896
100
50
0
−50
−100
−150
pull
Entries 87
Mean 554
Std Dev 0
2
1
0
−1
−2
−3

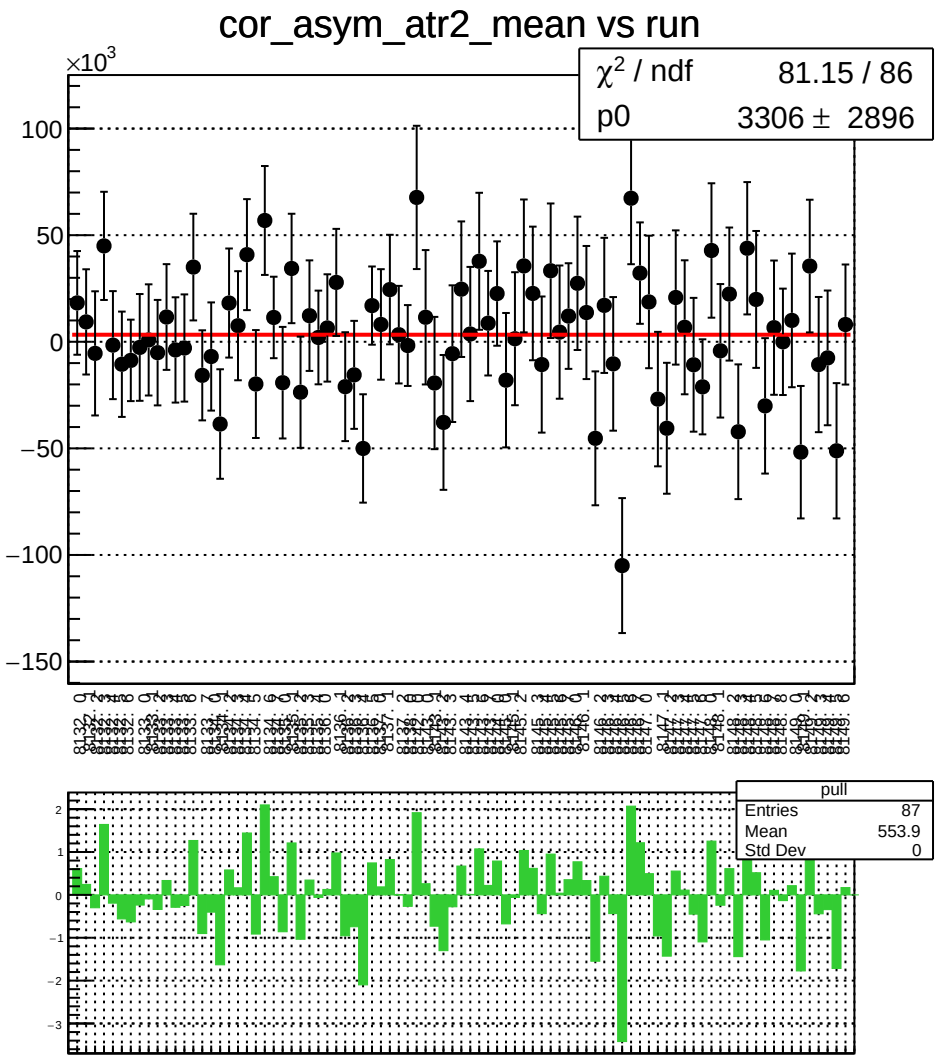

pull1D
Entries 87
Mean −0.004028
Std Dev 0.9658
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

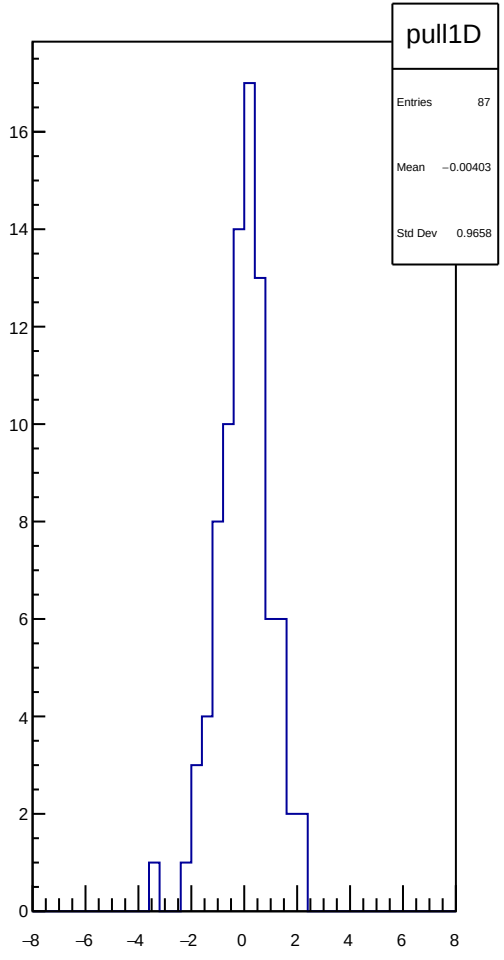

reg_asym_atr2_rms vs run
χ² / ndf 1.968e+04 / 86
p0 2669 ± 2.047
3100
3000
2900
2800
2700
2600
2500
2400
2300

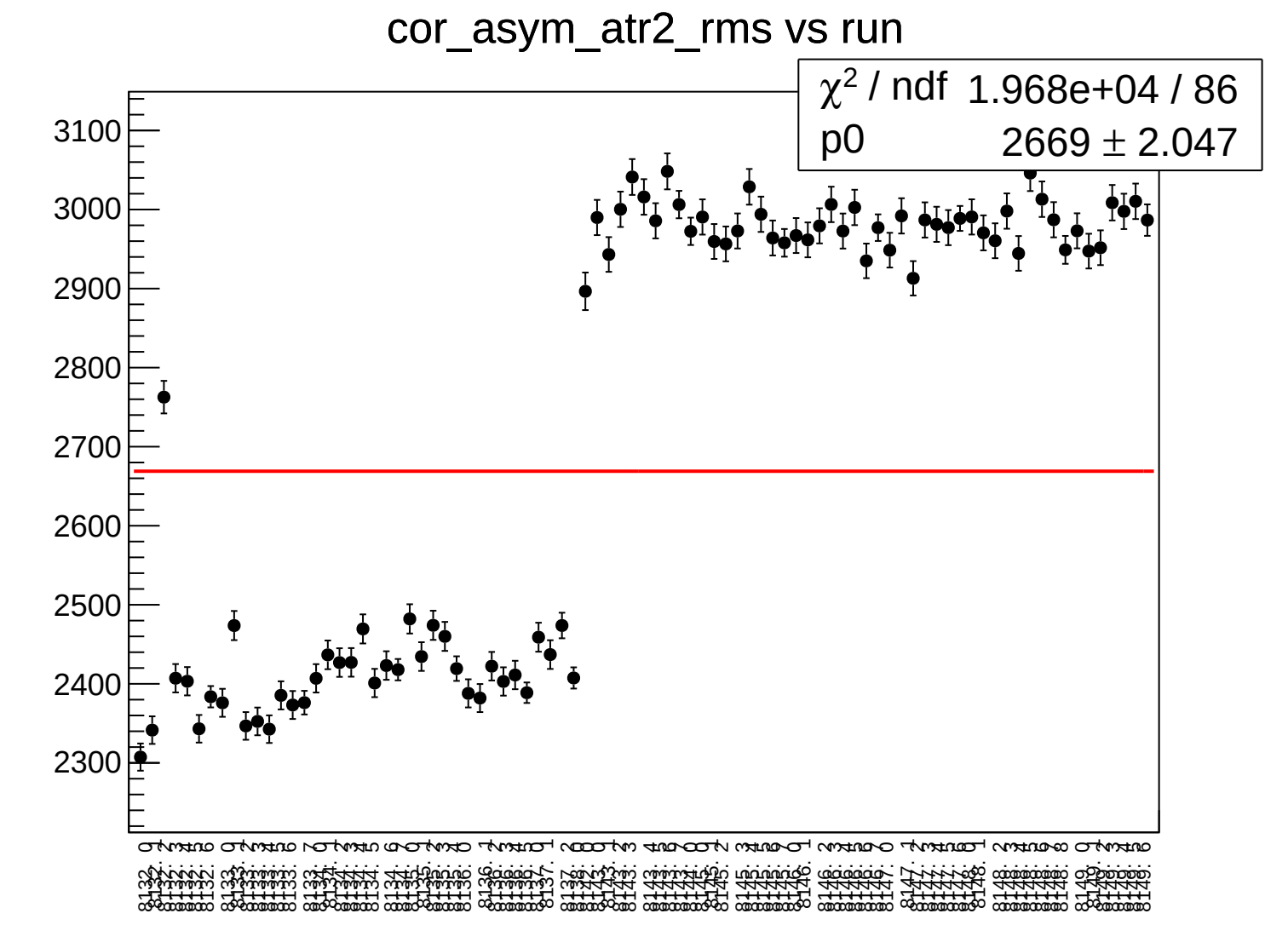

asym_atr2_reg_correction_mean vs run
×10^3
χ² / ndf 92.48 / 86
p0 7447 ± 1.363e+04
400
200
0
−200
−400
pull
Entries 87
Mean 637.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

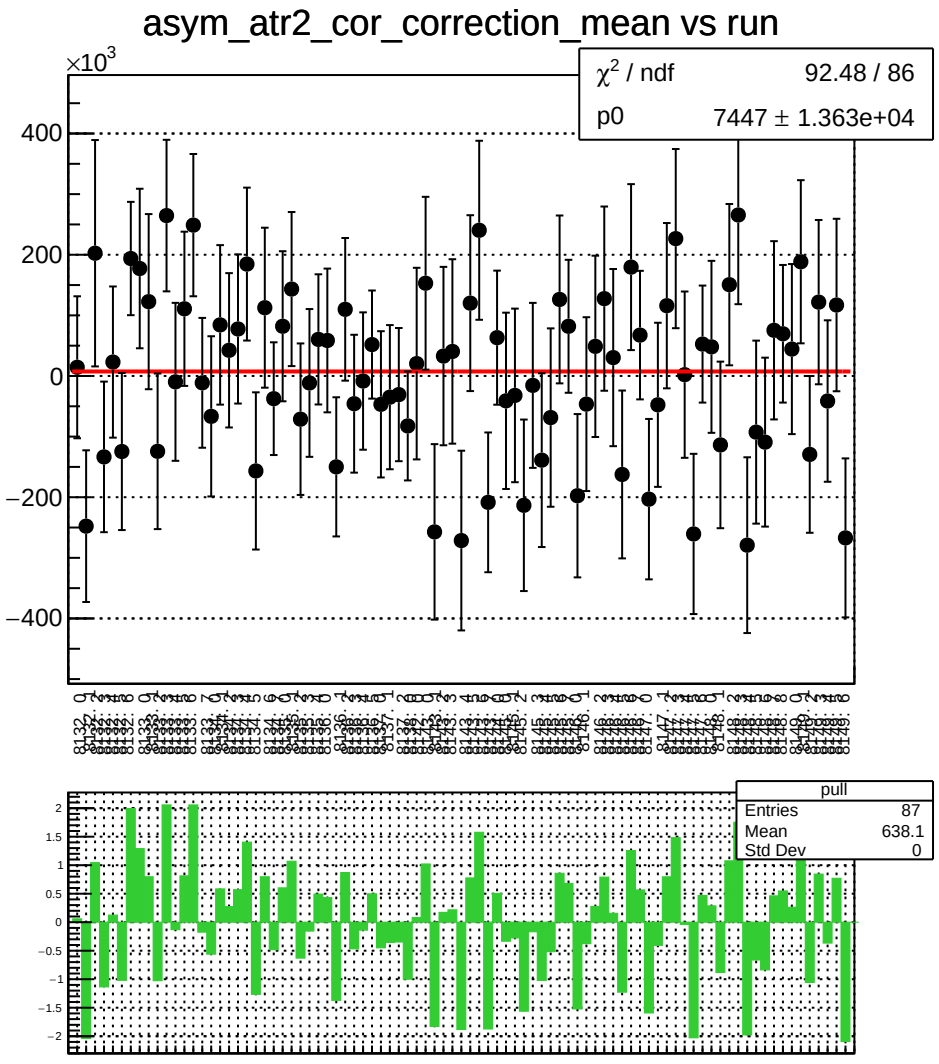

pull1D
Entries 87
Mean −0.00467
Std Dev 1.031
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

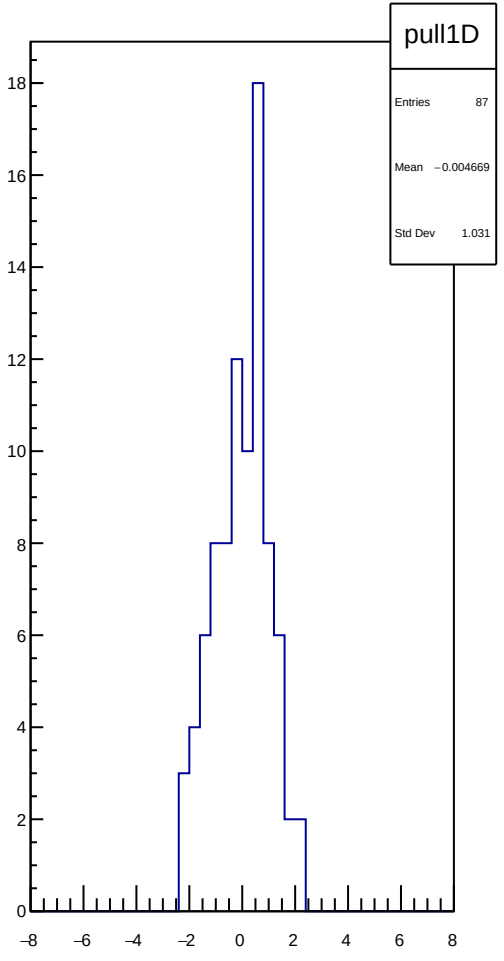

asym_atr2_reg_correction_rms vs run
χ² / ndf 1.168e+04 / 86
p0 1.26e+04 ± 9.64
18000
17000
16000
15000
14000
13000
12000
11000
10000

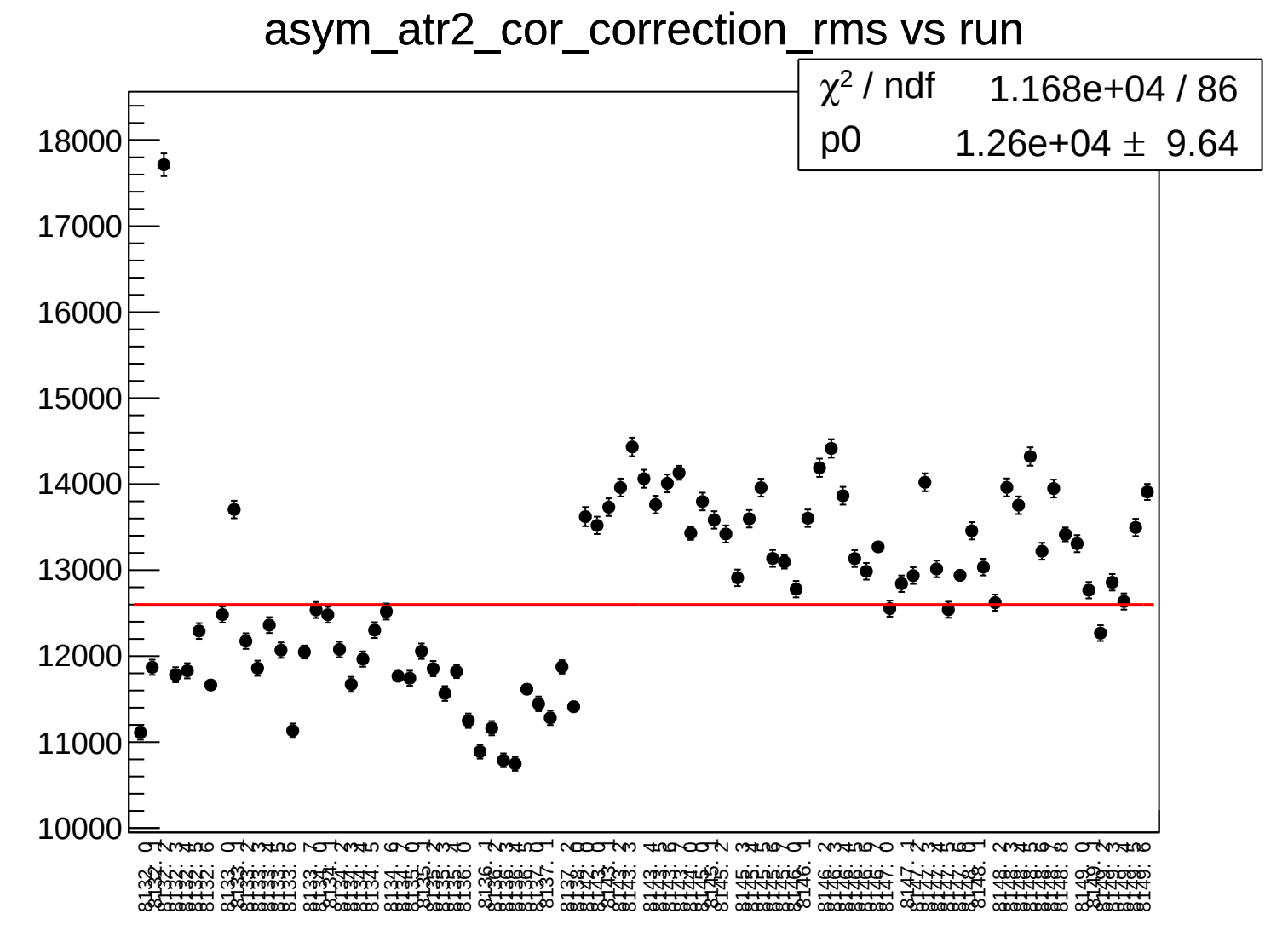

cor_asym_atr2_mean vs run
×10^3
χ^2 / ndf 81.15 / 86
p0 3306 ± 2896
100
50
0
−50
−100
−150
pull
Entries 87
Mean 553.9
Std Dev 0
2
1
0
−1
−2
−3

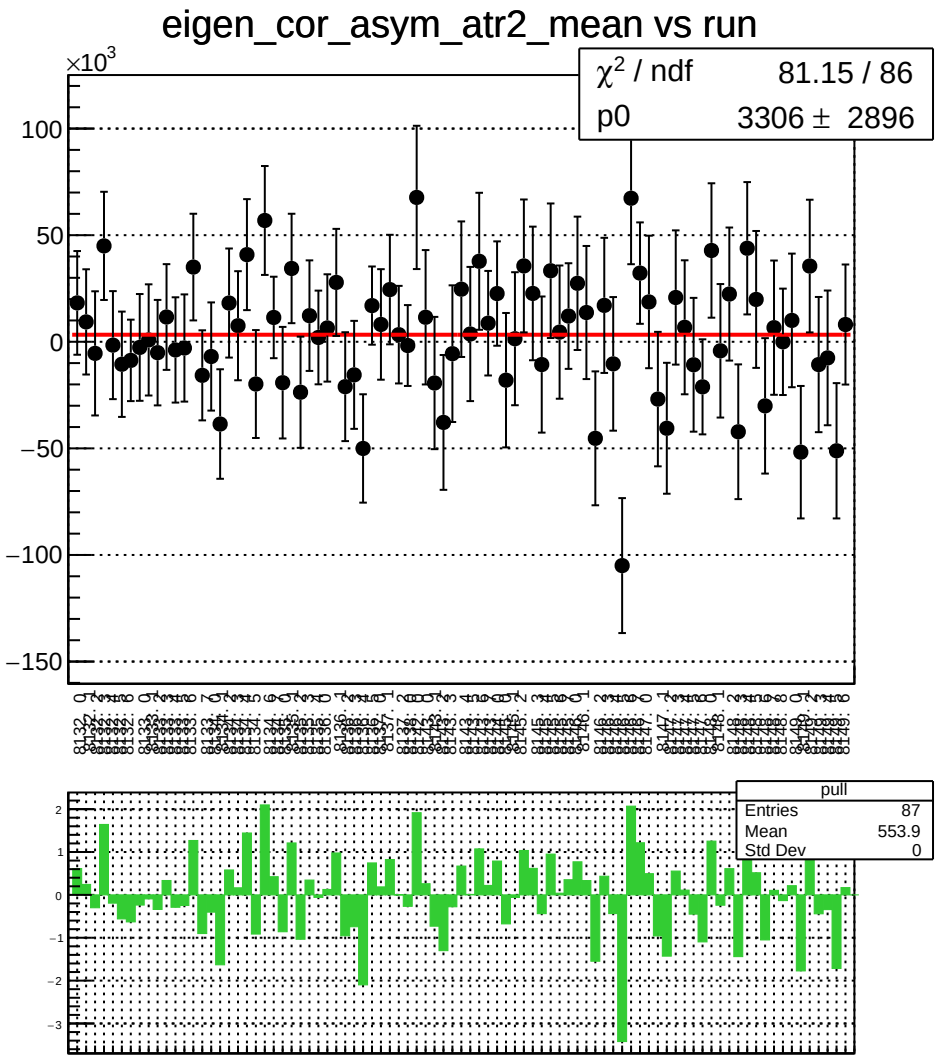

pull1D
Entries 87
Mean −0.00403
Std Dev 0.9658
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

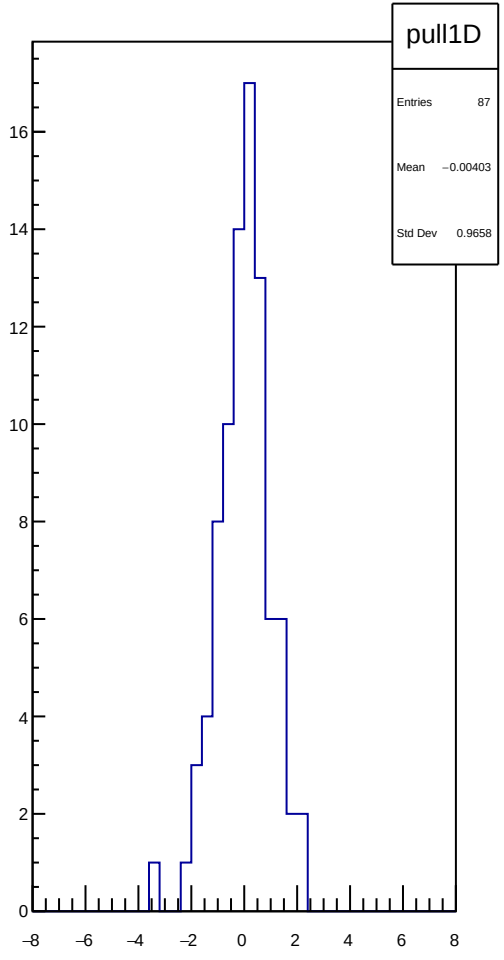

cor_asym_atr2_rms vs run
χ² / ndf 1.968e+04 / 86
p0 2669 ± 2.047
3100
3000
2900
2800
2700
2600
2500
2400
2300

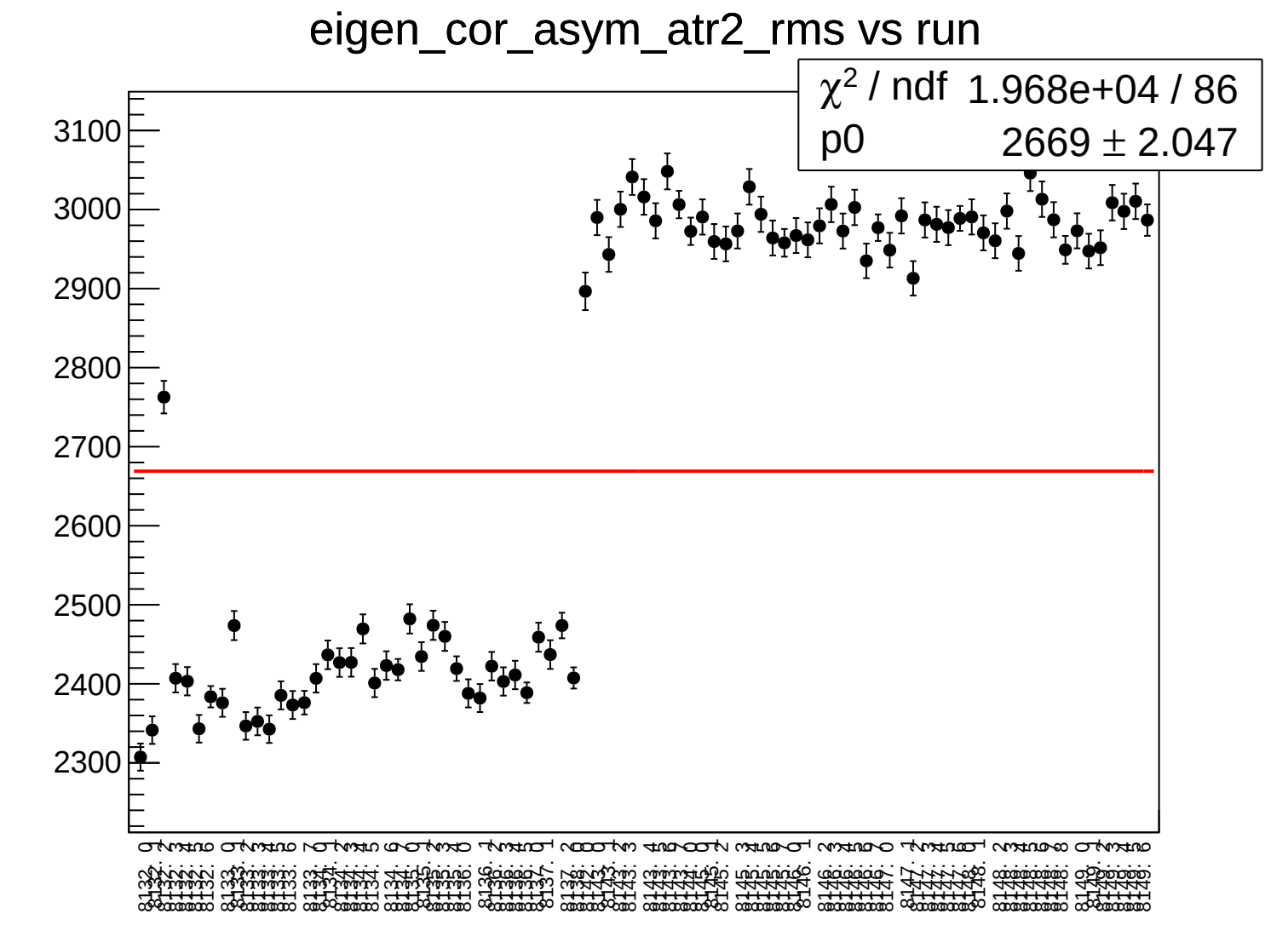

asym_atr2_cor_correction_mean vs run
×10^3
χ² / ndf 92.48 / 86
p0 7447 ± 1.363e+04
400
200
0
−200
−400
pull
Entries 87
Mean 638.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

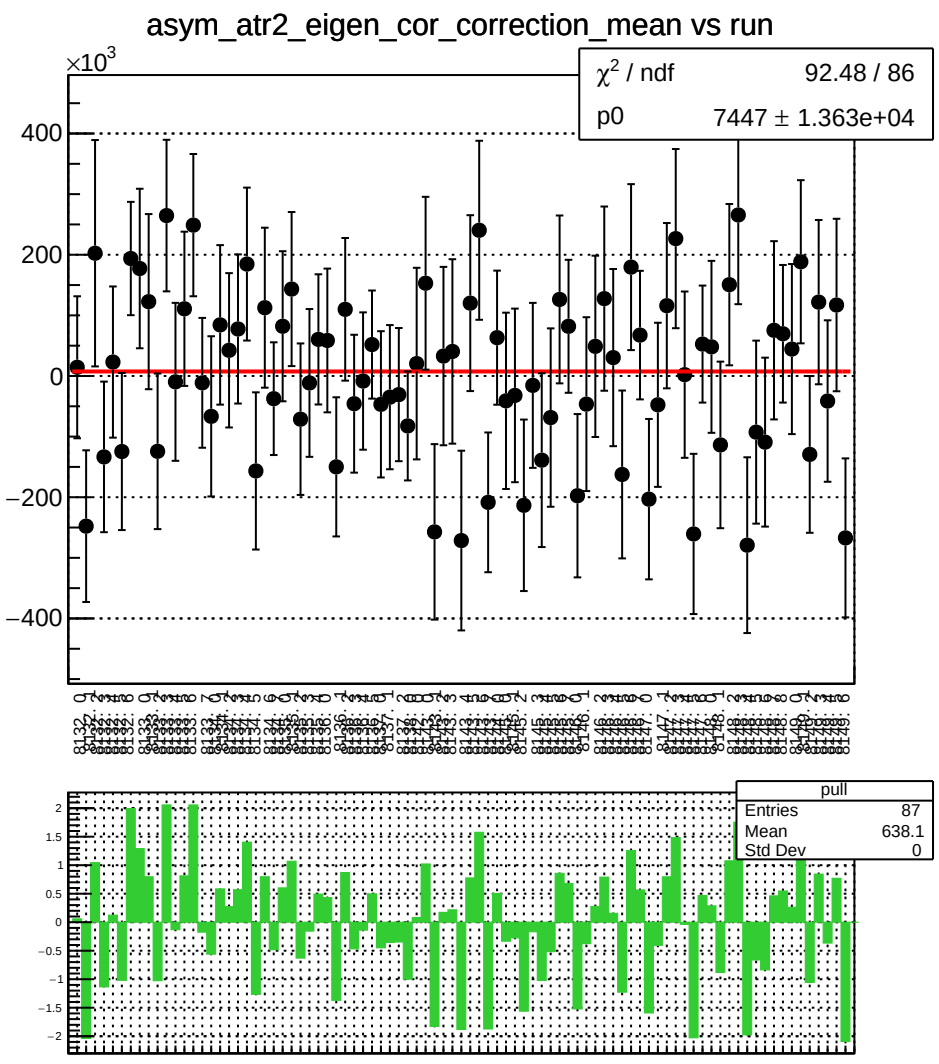

pull1D
Entries 87
Mean −0.004669
Std Dev 1.031
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

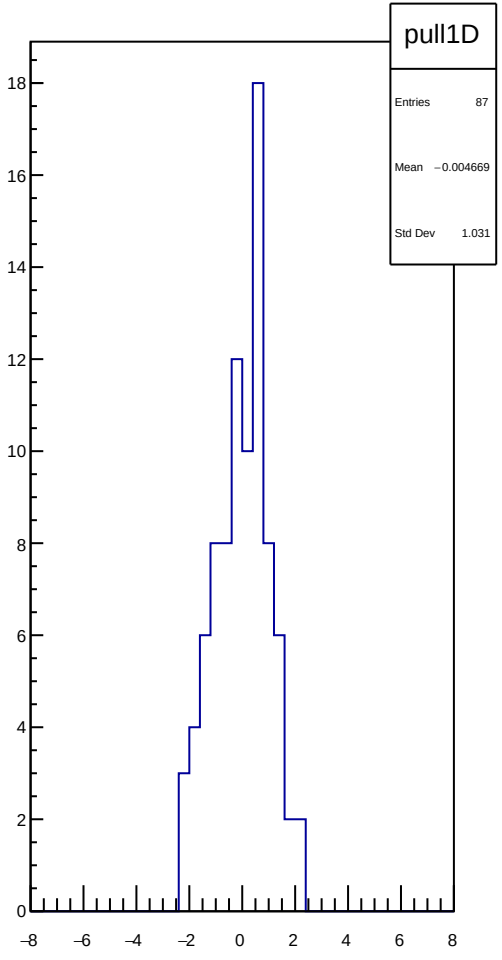

asym_atr2_cor_correction_rms vs run
χ² / ndf 1.168e+04 / 86
p0 1.26e+04 ± 9.64
18000
17000
16000
15000
14000
13000
12000
11000
10000

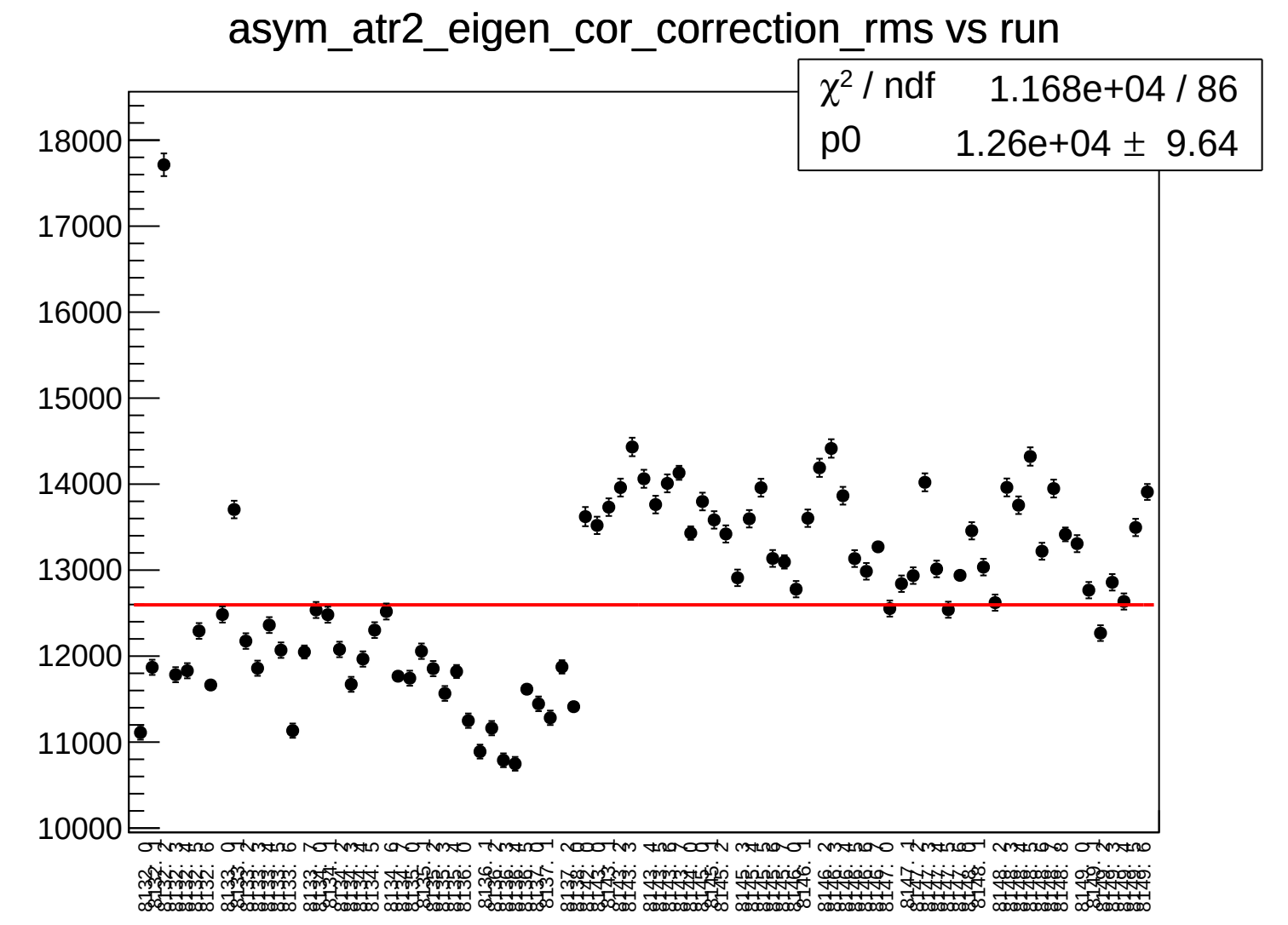

eigen_cor_asym_atr2_mean vs run
×10^3
χ^2 / ndf 81.15 / 86
p0 3306 ± 2896
100
50
0
−50
−100
−150
pull
Entries 87
Mean 553.9
Std Dev 0
2
1
0
−1
−2
−3

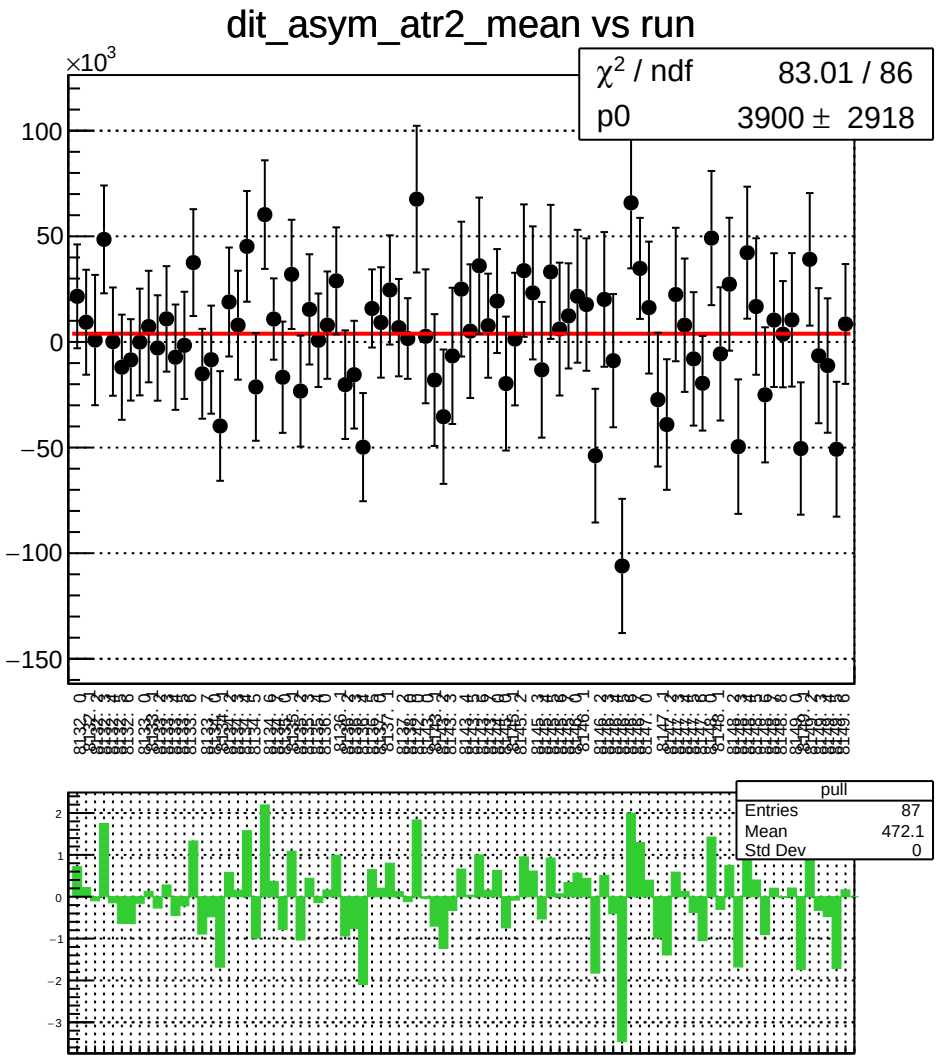

pull1D
Entries 87
Mean −0.00403
Std Dev 0.9658
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

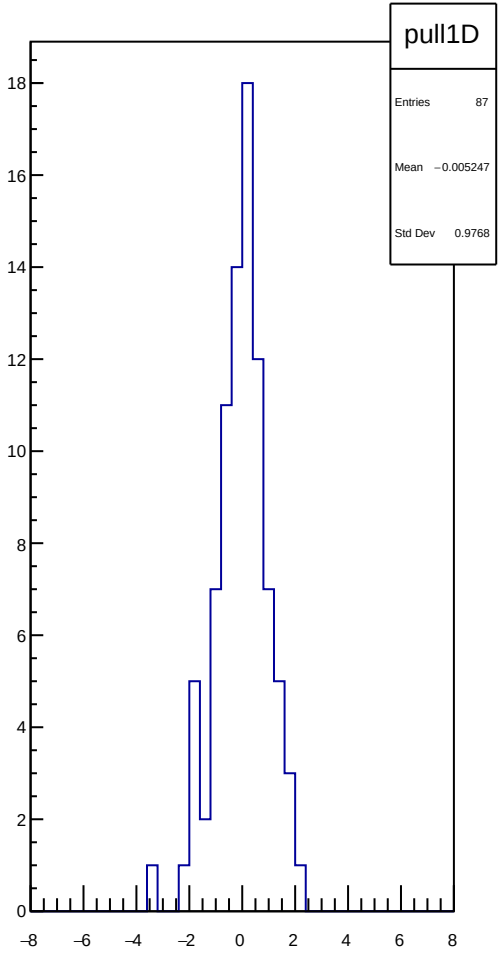

eigen_cor_asym_atr2_rms vs run
χ² / ndf 1.968e+04 / 86
p0 2669 ± 2.047
3100
3000
2900
2800
2700
2600
2500
2400
2300

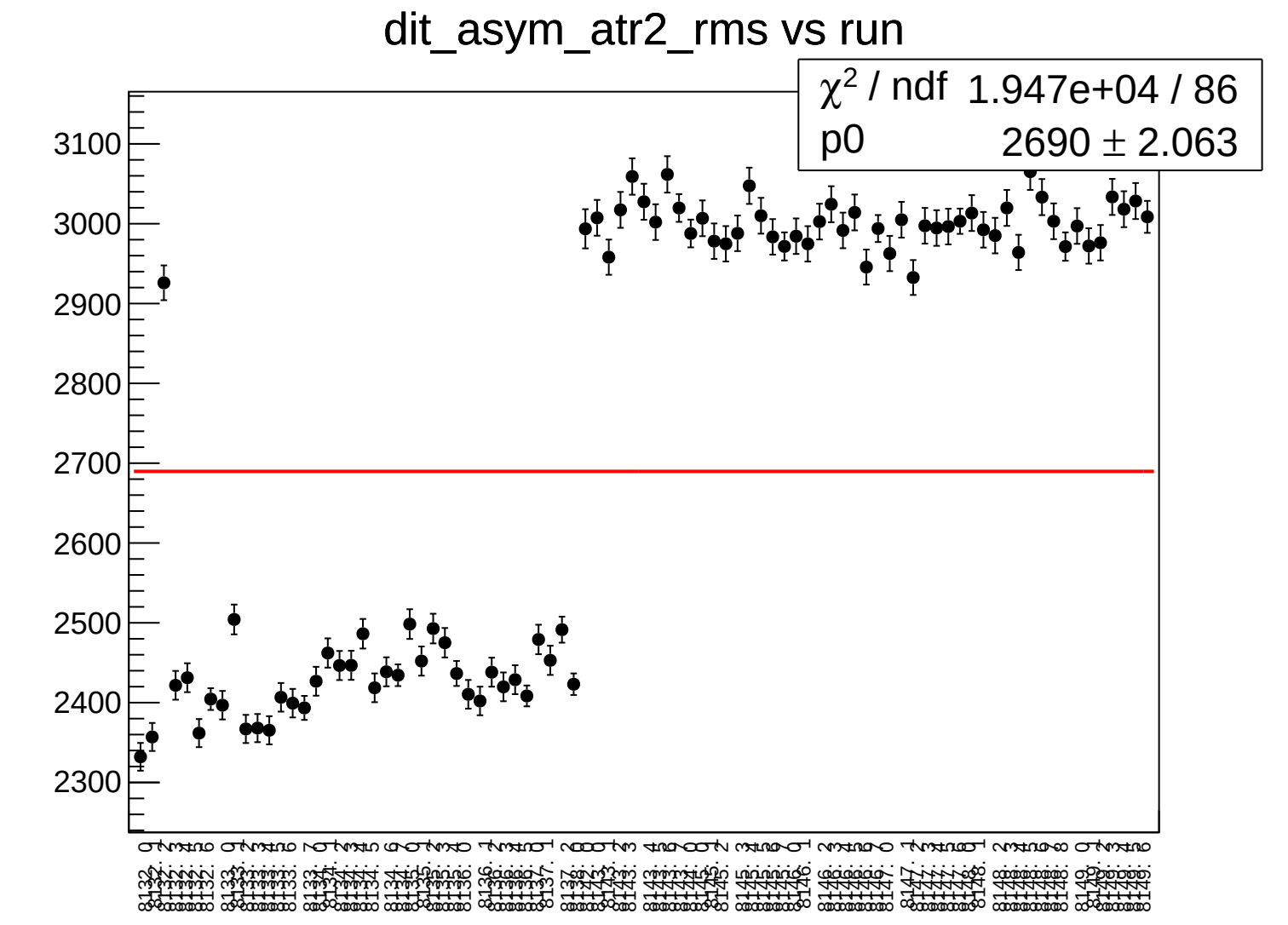

asym_atr2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 92.48 / 86
p0 7447 ± 1.363e+04
400
200
0
−200
−400
pull
Entries 87
Mean 638.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

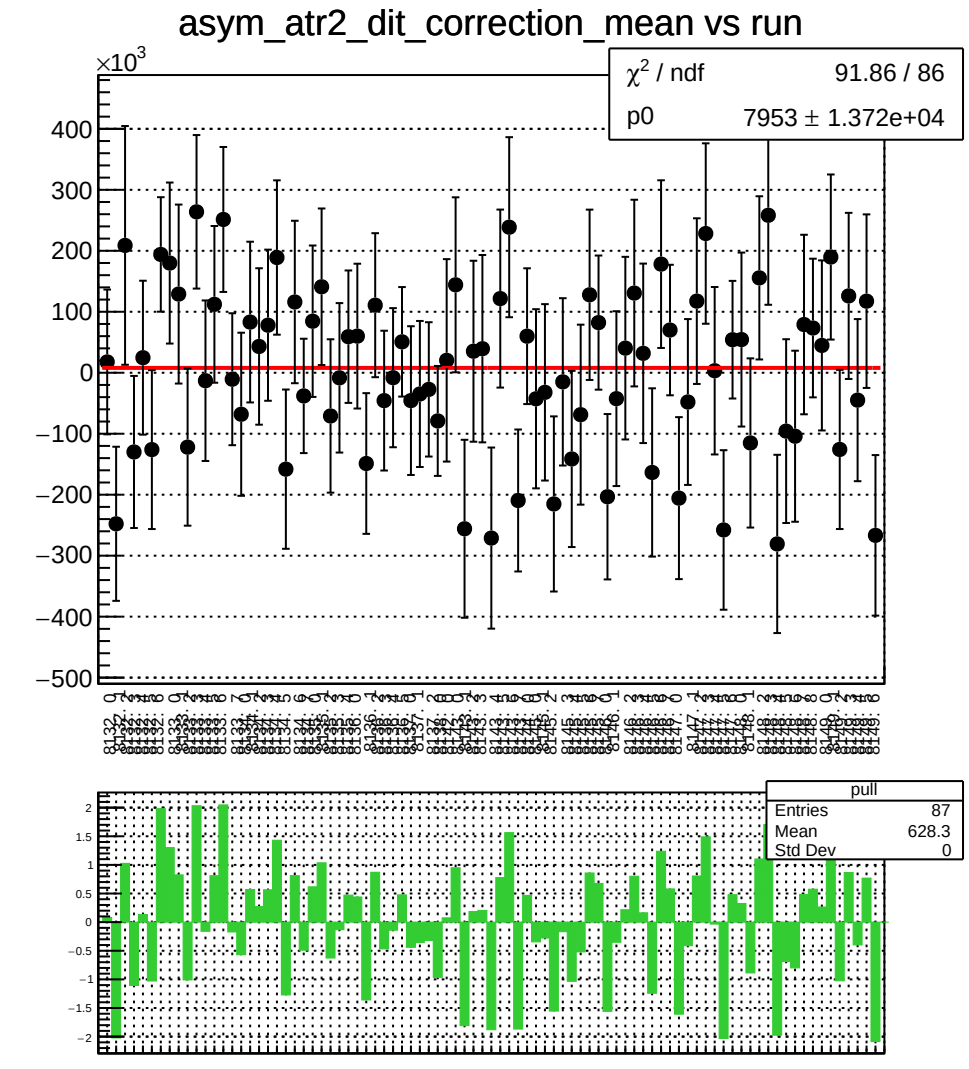

pull1D
Entries 87
Mean −0.004669
Std Dev 1.031
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

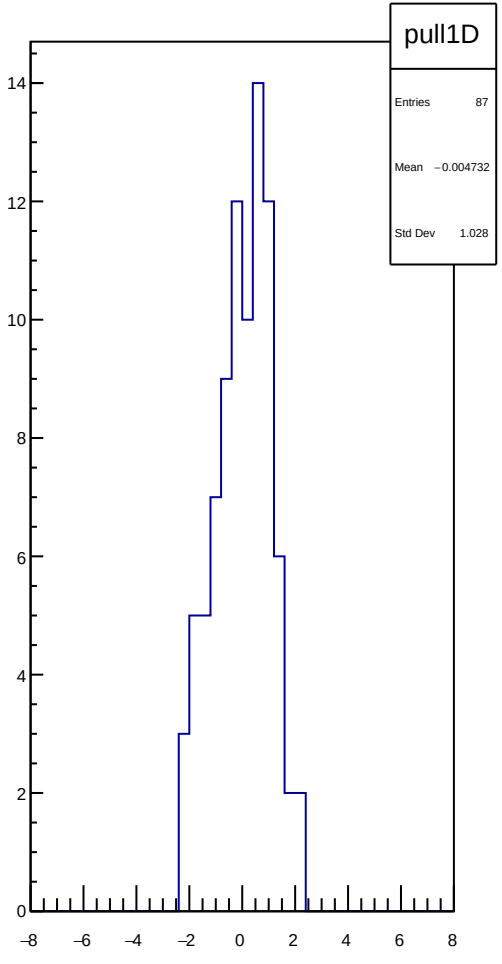

asym_atr2_eigen_cor_correction_rms vs run
χ² / ndf 1.168e+04 / 86
p0 1.26e+04 ± 9.64
18000
17000
16000
15000
14000
13000
12000
11000
10000

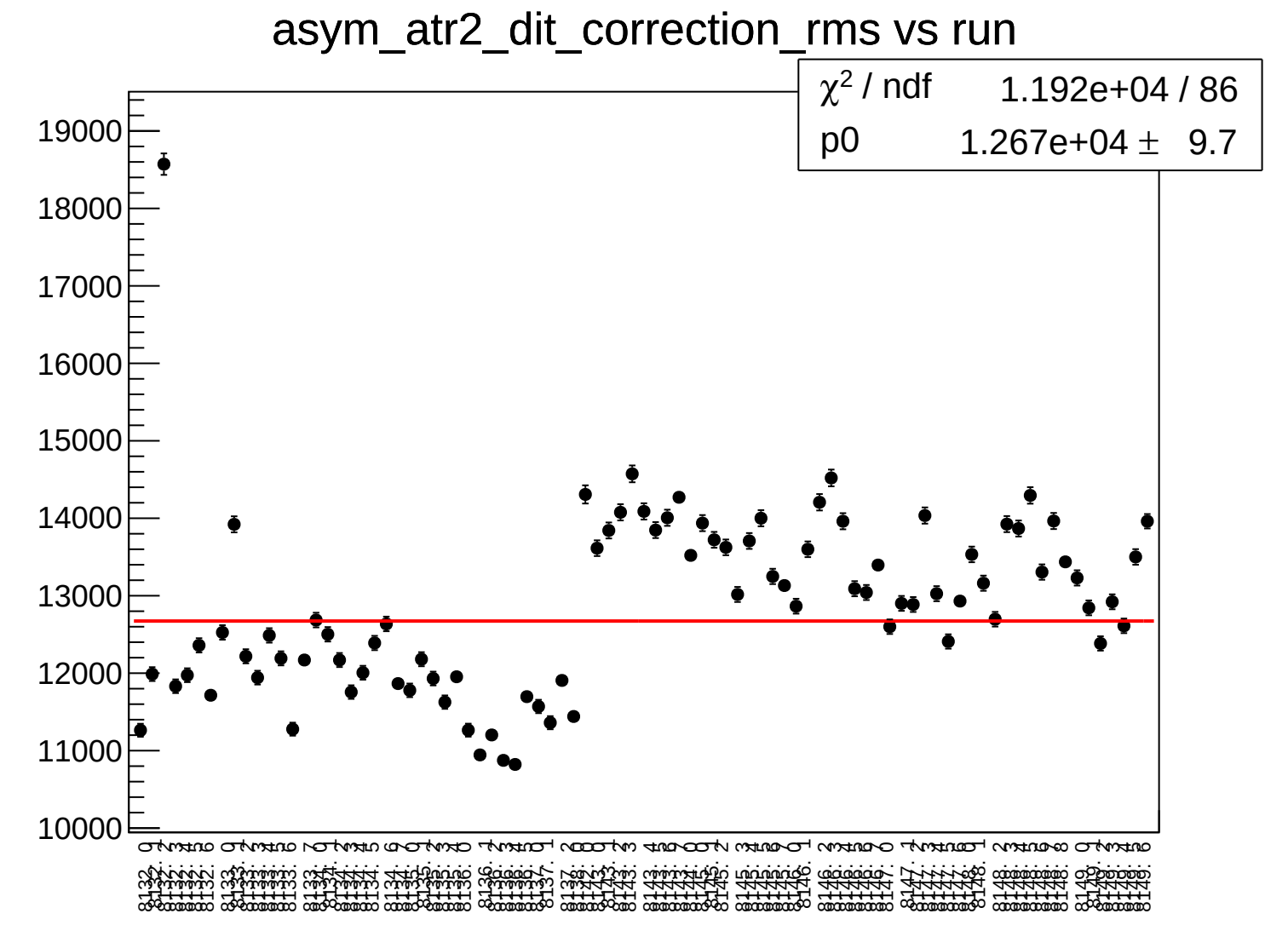

dit_asym_atr2_mean vs run
×10^3
χ^2 / ndf 83.01 / 86
p0 3900 ± 2918
100
50
0
−50
−100
−150
pull
Entries 87
Mean 472.1
Std Dev 0
2
1
0
−1
−2
−3

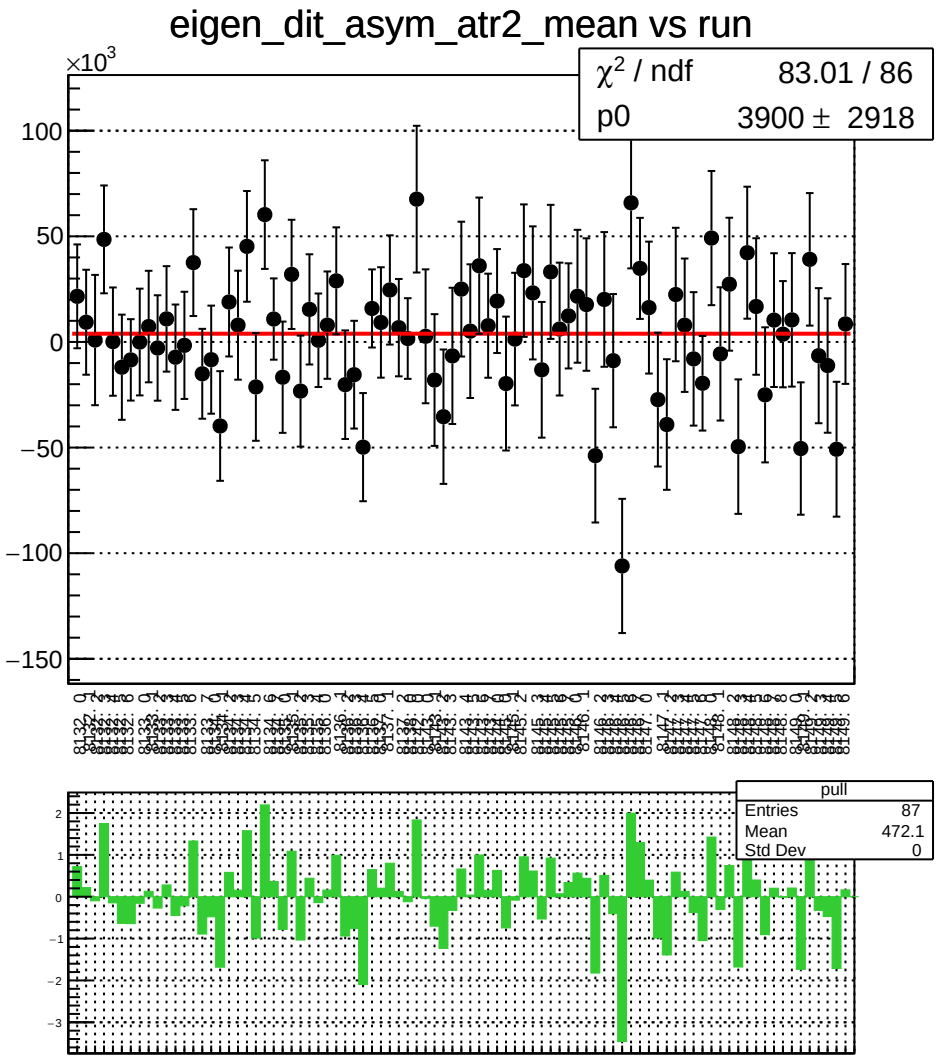

pull1D
Entries 87
Mean −0.005247
Std Dev 0.9768
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

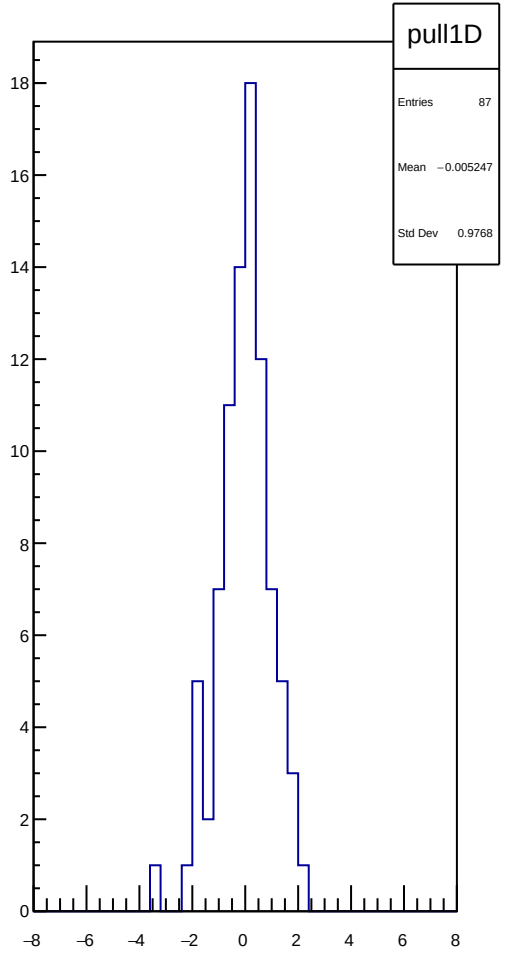

dit_asym_atr2_rms vs run
χ² / ndf 1.947e+04 / 86
p0 2690 ± 2.063
3100
3000
2900
2800
2700
2600
2500
2400
2300

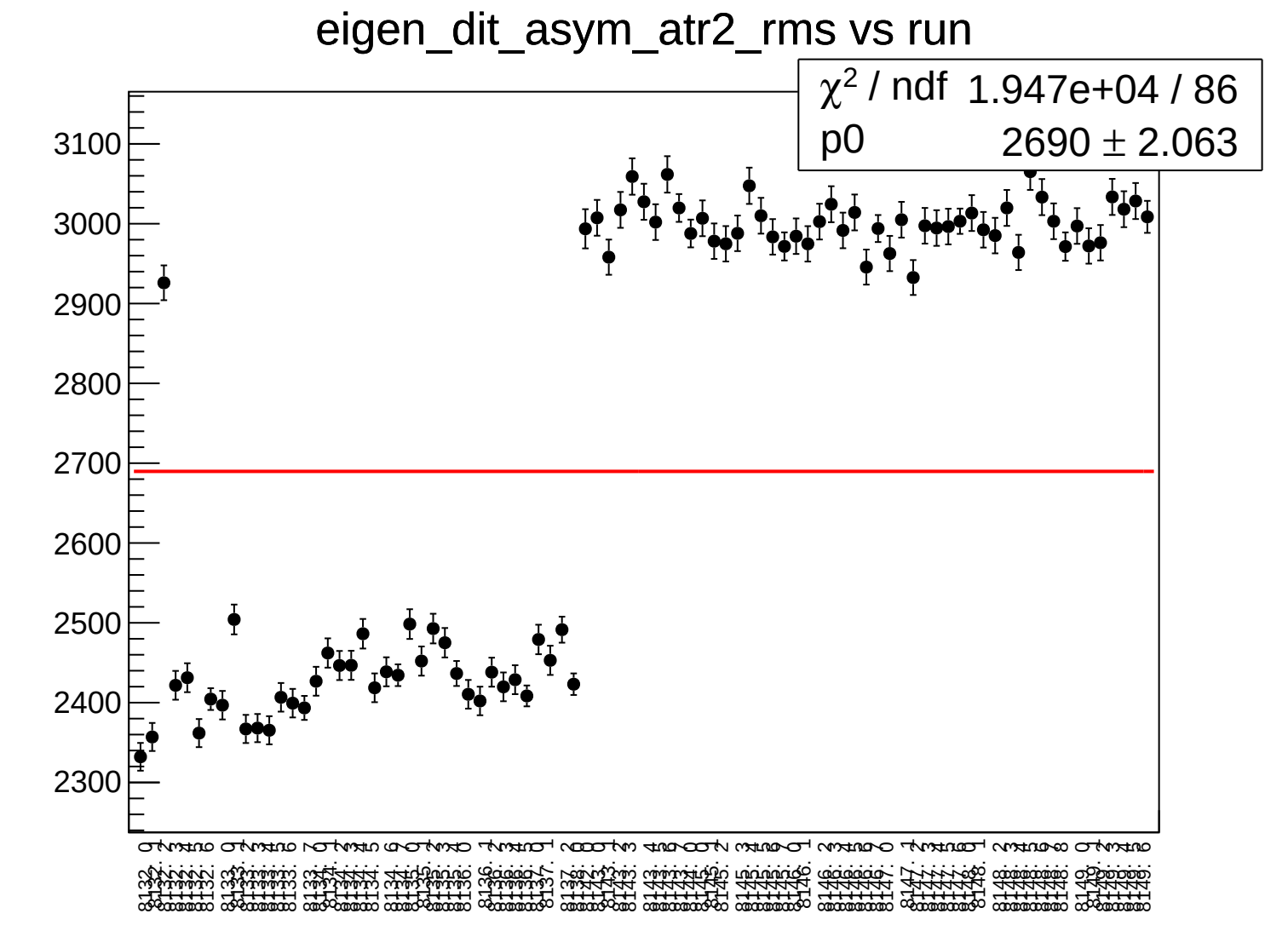

asym_atr2_dit_correction_mean vs run
×10^3
χ² / ndf 91.86 / 86
p0 7953 ± 1.372e+04
pull
Entries 87
Mean 628.3
Std Dev 0

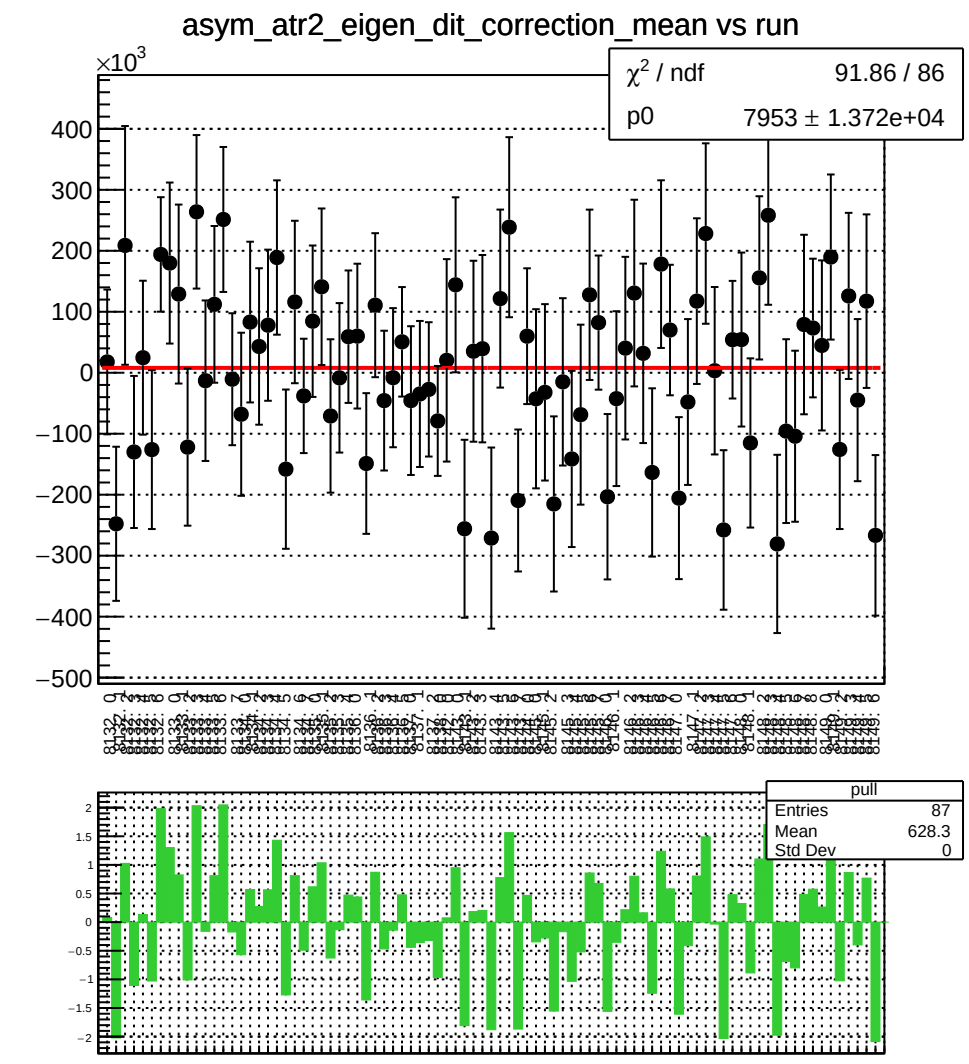

pull1D
Entries 87
Mean −0.004732
Std Dev 1.028

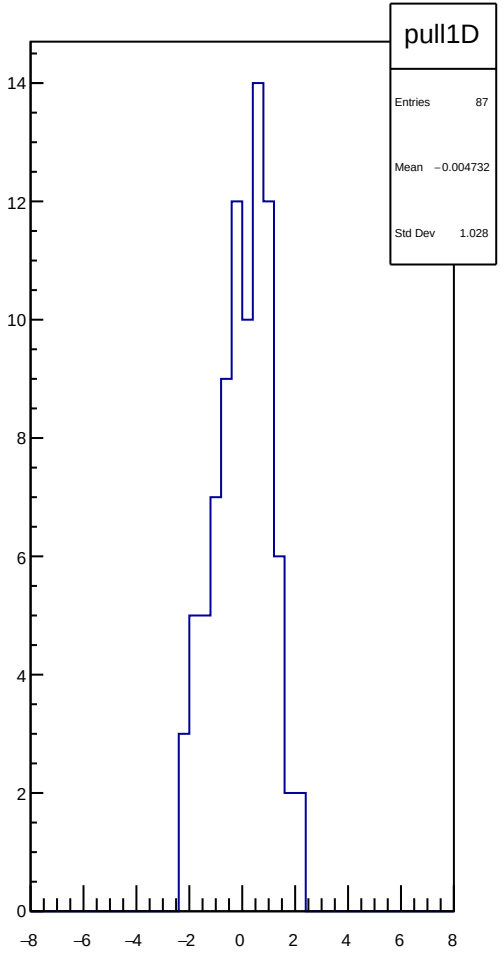

asym_atr2_dit_correction_rms vs run
χ² / ndf 1.192e+04 / 86
p0 1.267e+04 ± 9.7
19000
18000
17000
16000
15000
14000
13000
12000
11000
10000

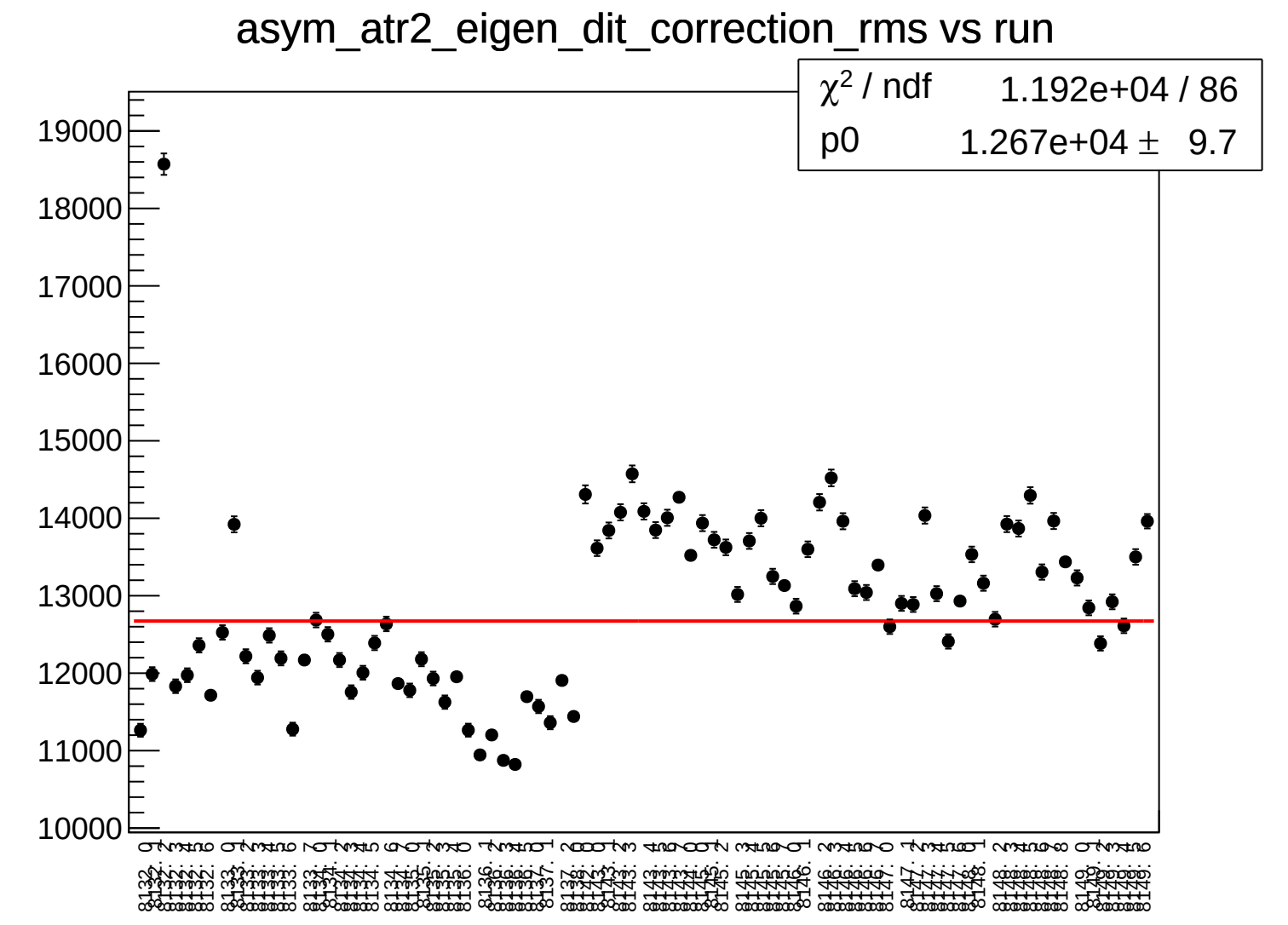

eigen_dit_asym_atr2_mean vs run
×10^3
χ² / ndf 83.01 / 86
p0 3900 ± 2918
100
50
0
−50
−100
−150
pull
Entries 87
Mean 472.1
Std Dev 0
2
1
0
−1
−2
−3

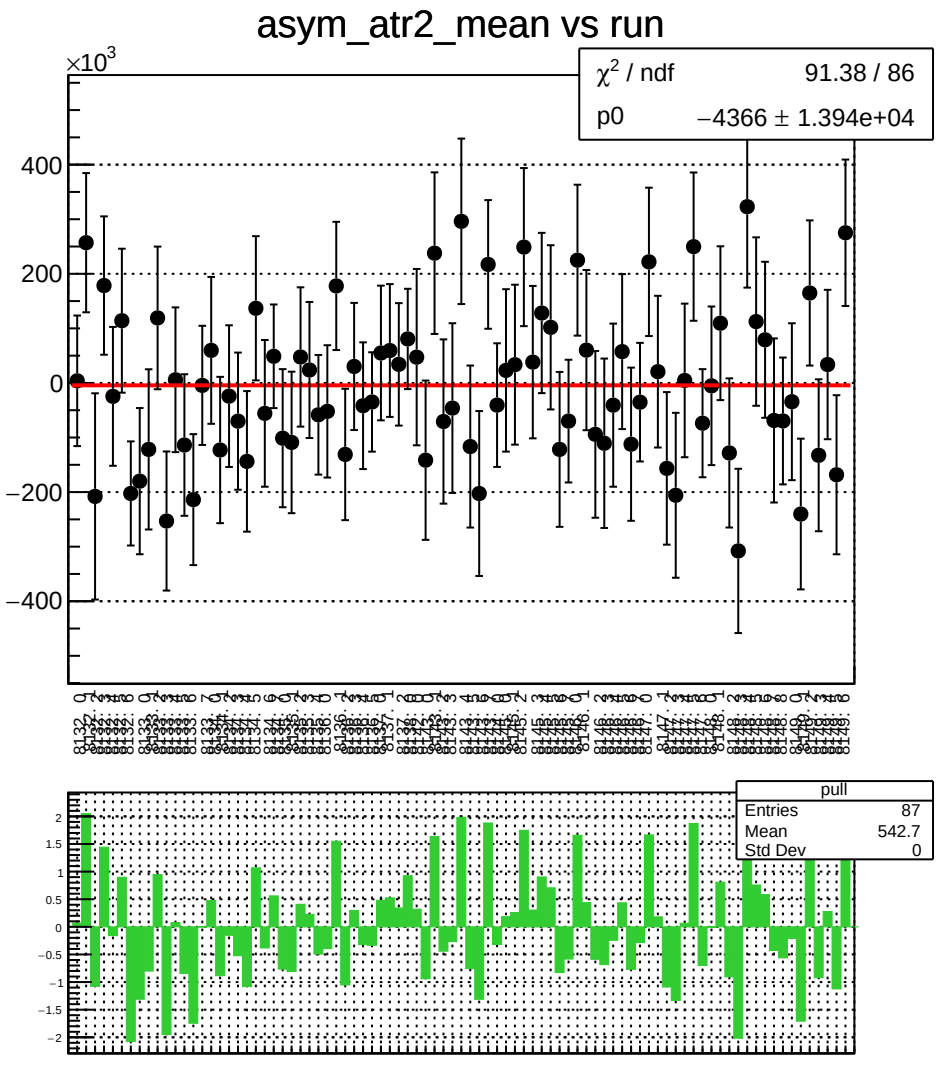

pull1D
Entries 87
Mean −0.005247
Std Dev 0.9768
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

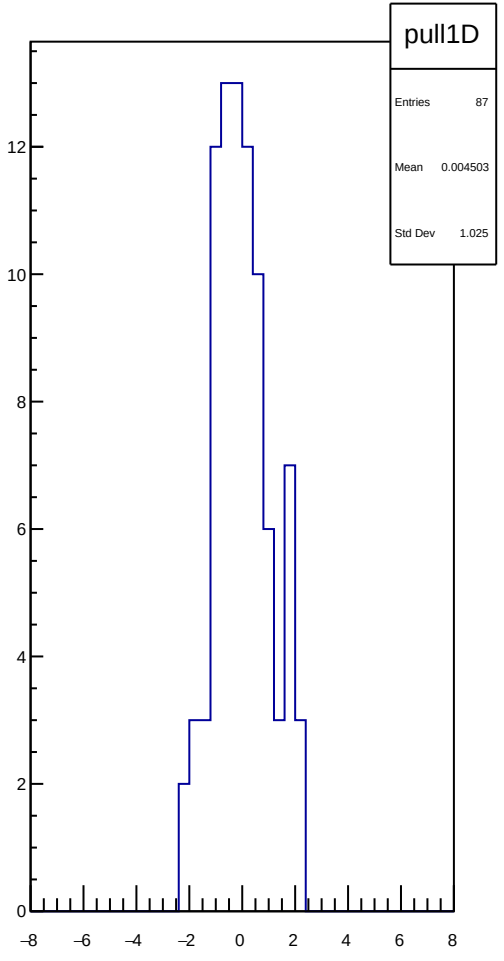

eigen_dit_asym_atr2_rms vs run
χ² / ndf 1.947e+04 / 86
p0 2690 ± 2.063
3100
3000
2900
2800
2700
2600
2500
2400
2300

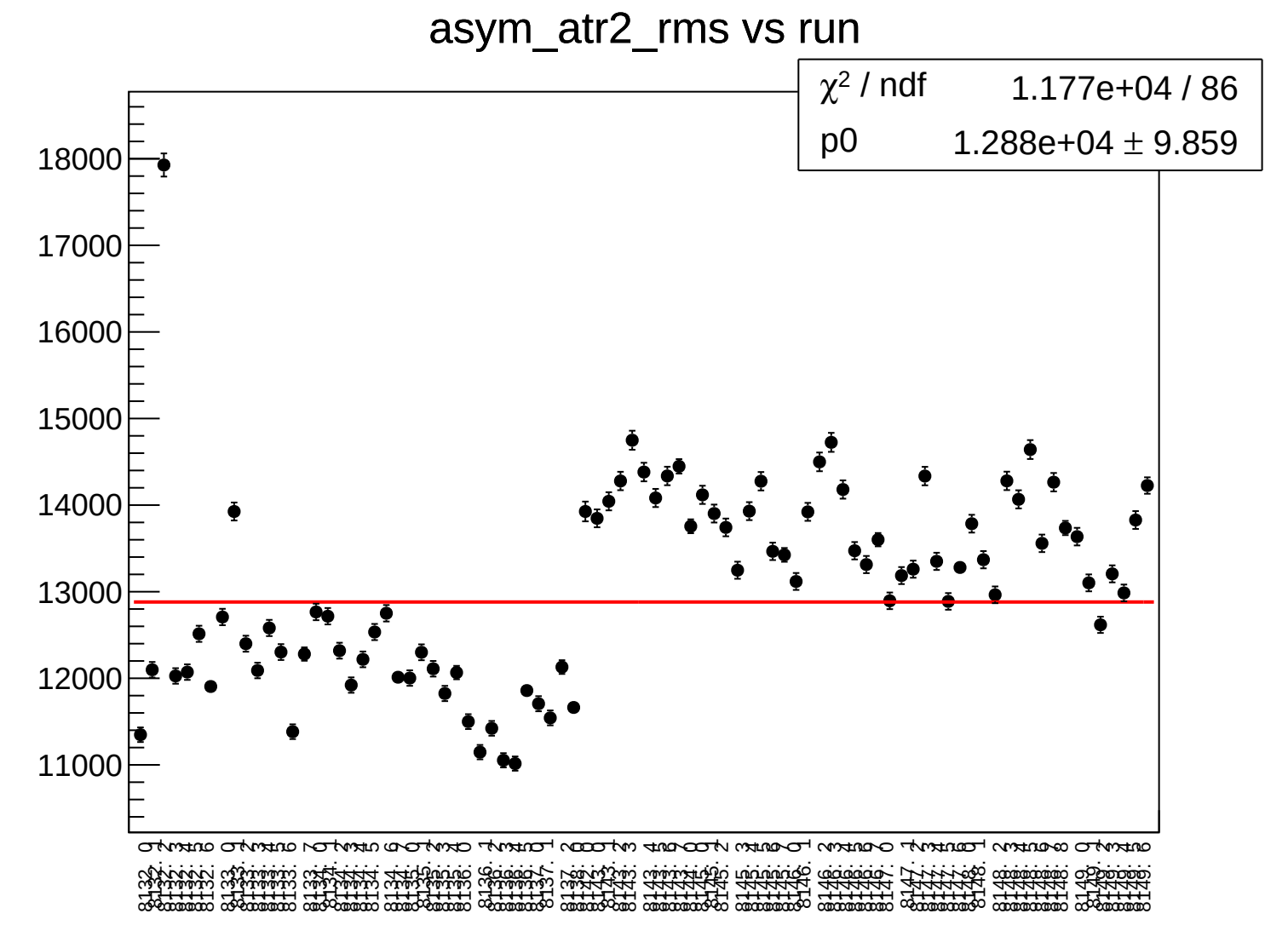

asym_atr2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 91.86 / 86
p0 7953 ± 1.372e+04
pull
Entries 87
Mean 628.3
Std Dev 0

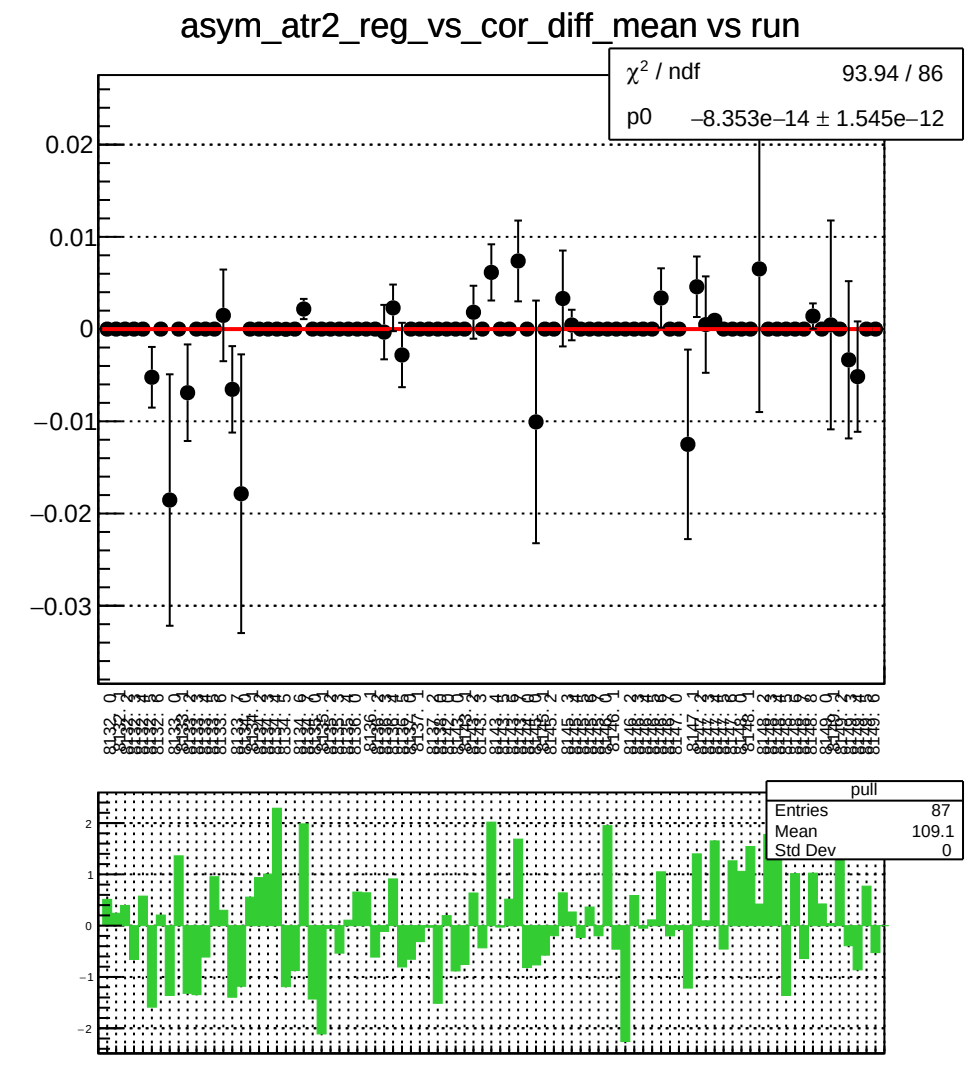

pull1D
Entries 87
Mean −0.004732
Std Dev 1.028

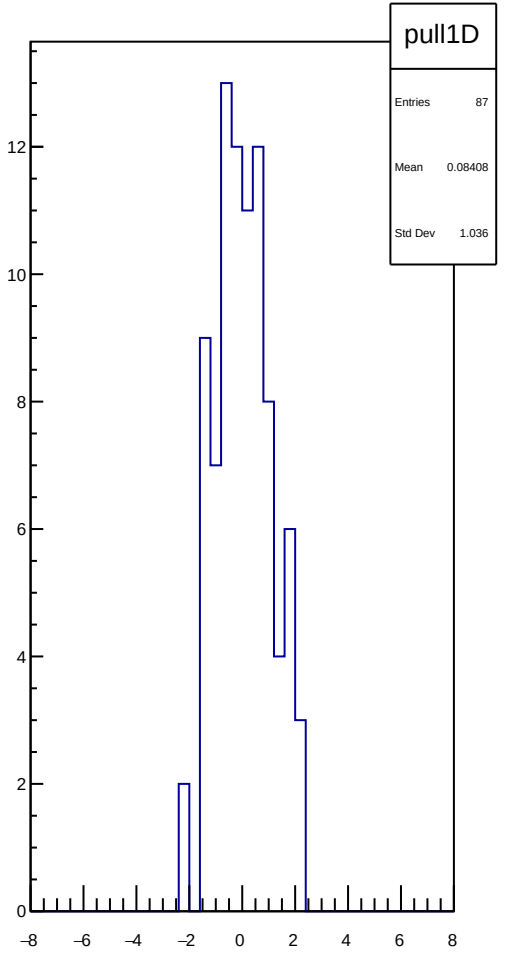

asym_atr2_eigen_dit_correction_rms vs run
χ² / ndf 1.192e+04 / 86
p0 1.267e+04 ± 9.7
19000
18000
17000
16000
15000
14000
13000
12000
11000
10000

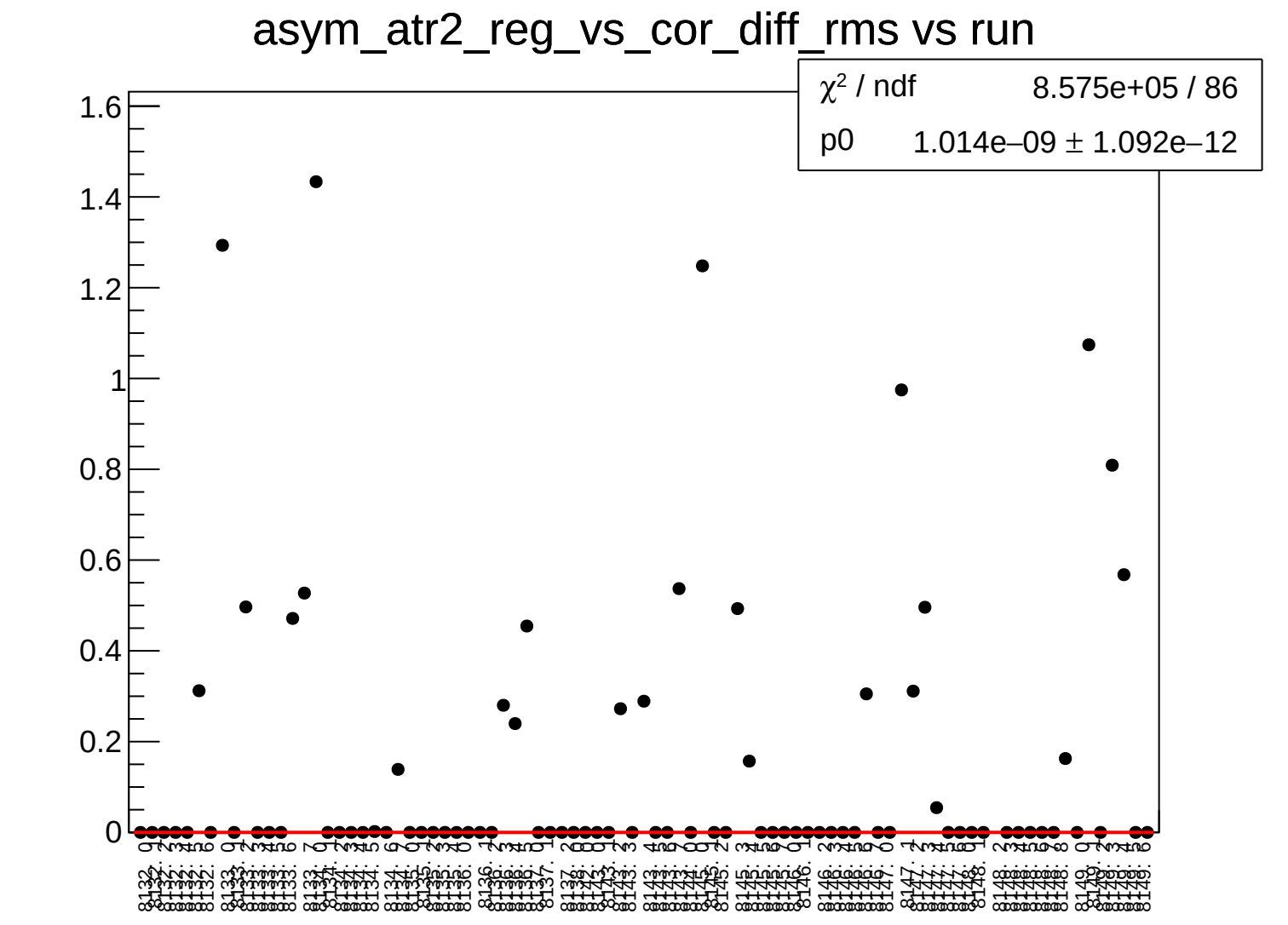

asym_atr2_mean vs run
×10^3
χ² / ndf 91.38 / 86
p0 −4366 ± 1.394e+04
400
200
0
−200
−400
pull
Entries 87
Mean 542.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

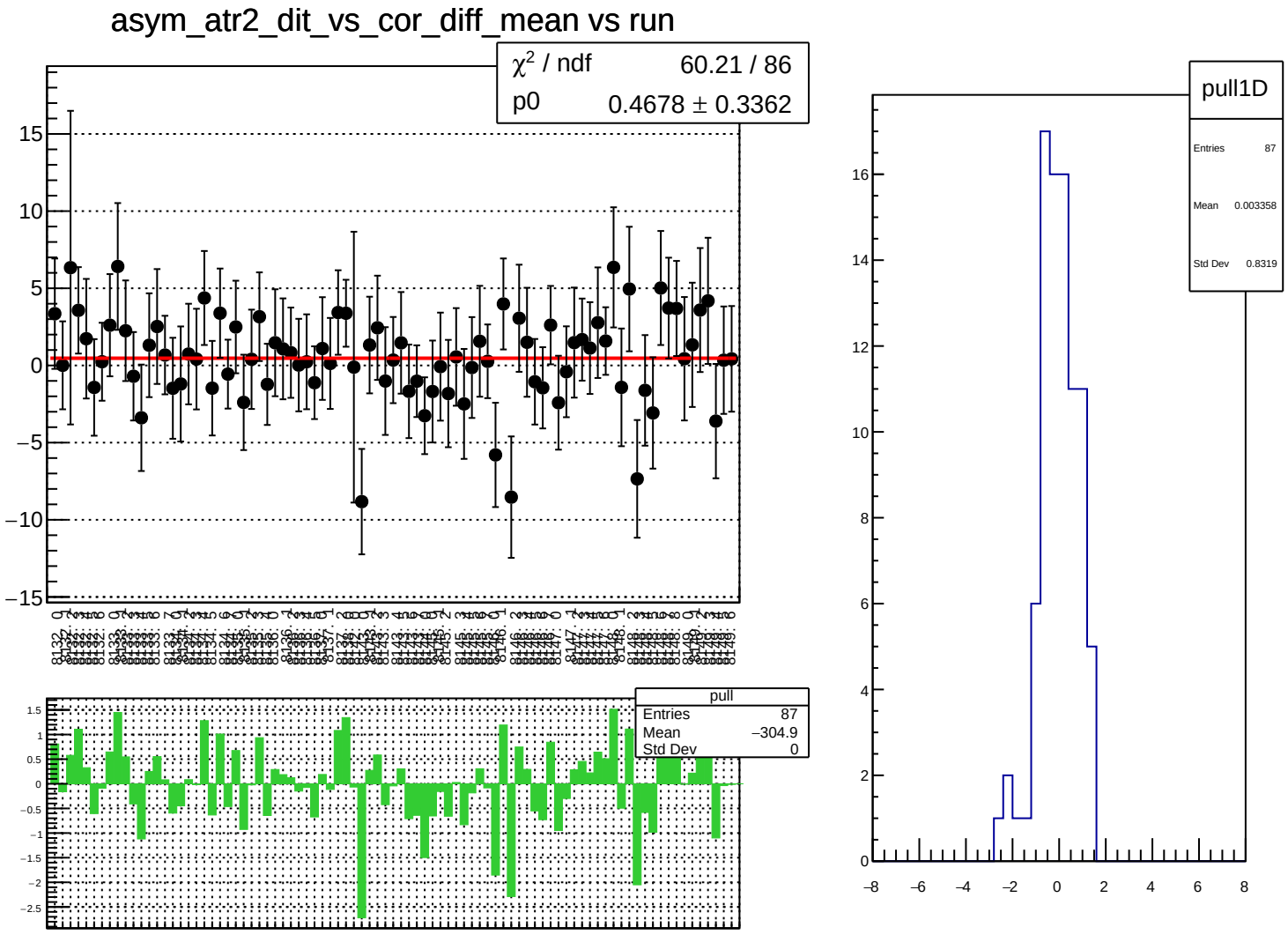

pull1D
Entries 87
Mean 0.004503
Std Dev 1.025
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

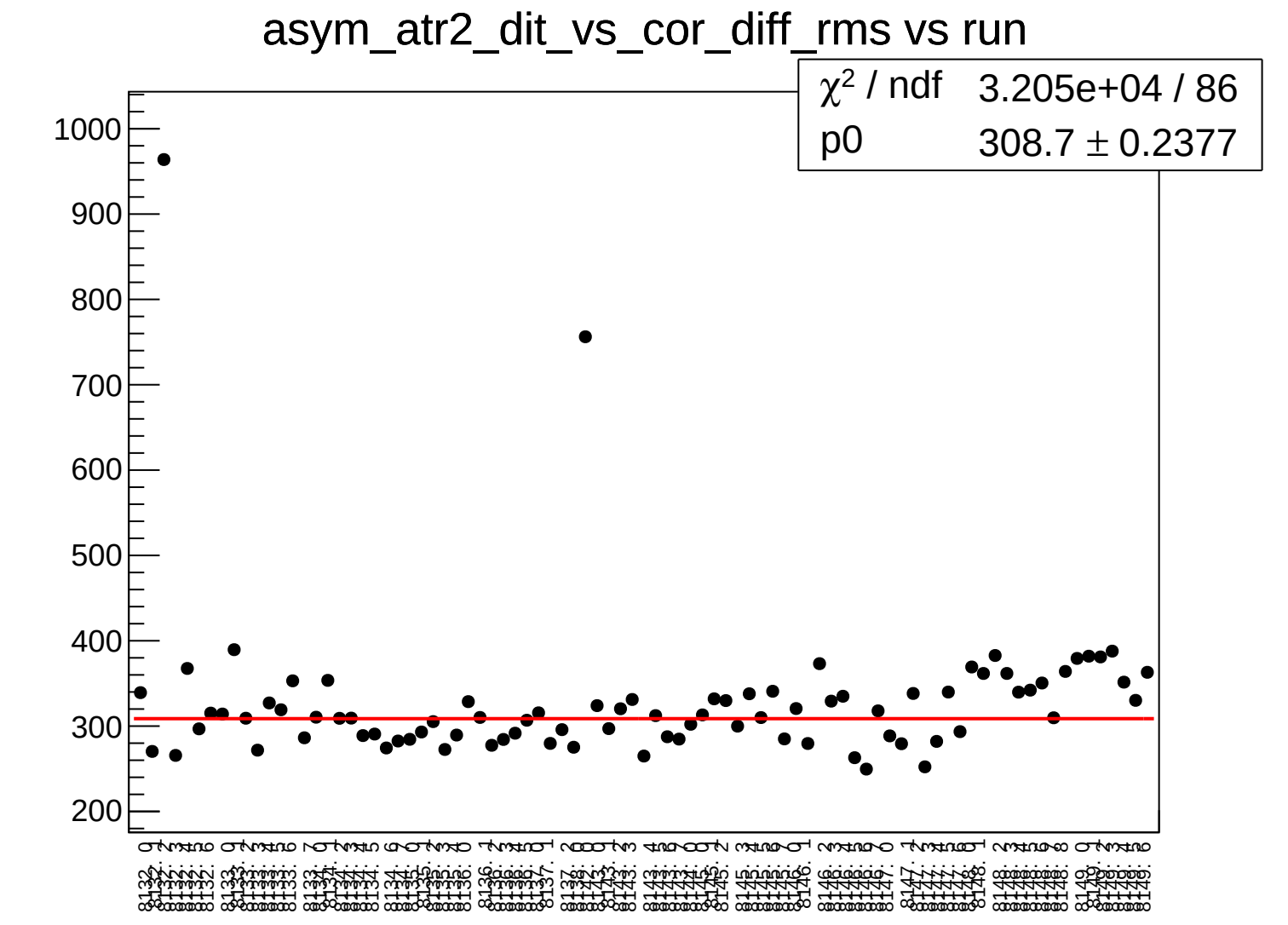

asym_atr2_rms vs run
χ^2 / ndf 1.177e+04 / 86
p0 1.288e+04 ± 9.859
18000
17000
16000
15000
14000
13000
12000
11000

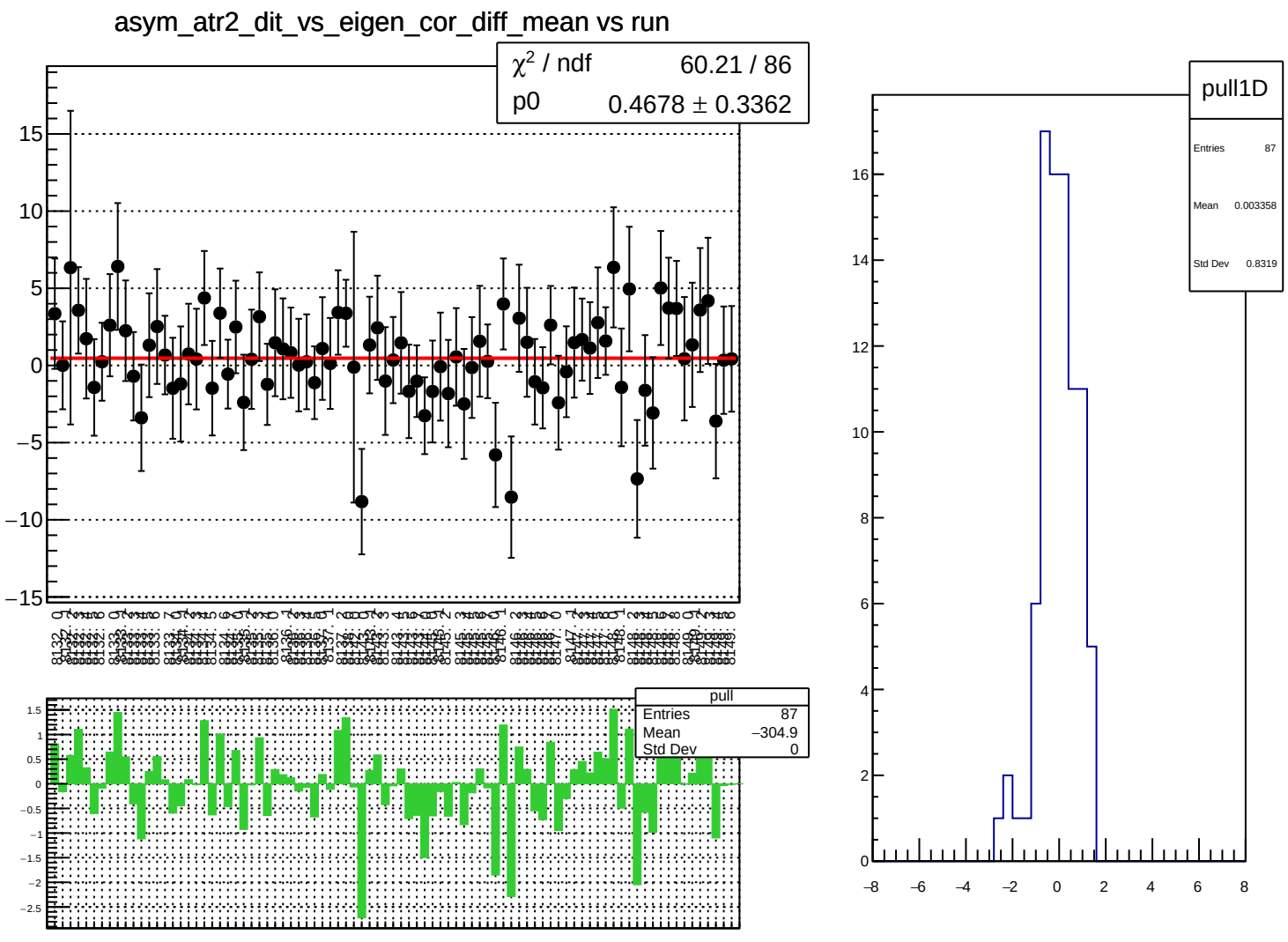

asym_atr2_reg_vs_cor_diff_mean vs run
χ² / ndf 93.94 / 86
p0 −8.353e−14 ± 1.545e−12
pull
Entries 87
Mean 109.1
Std Dev 0

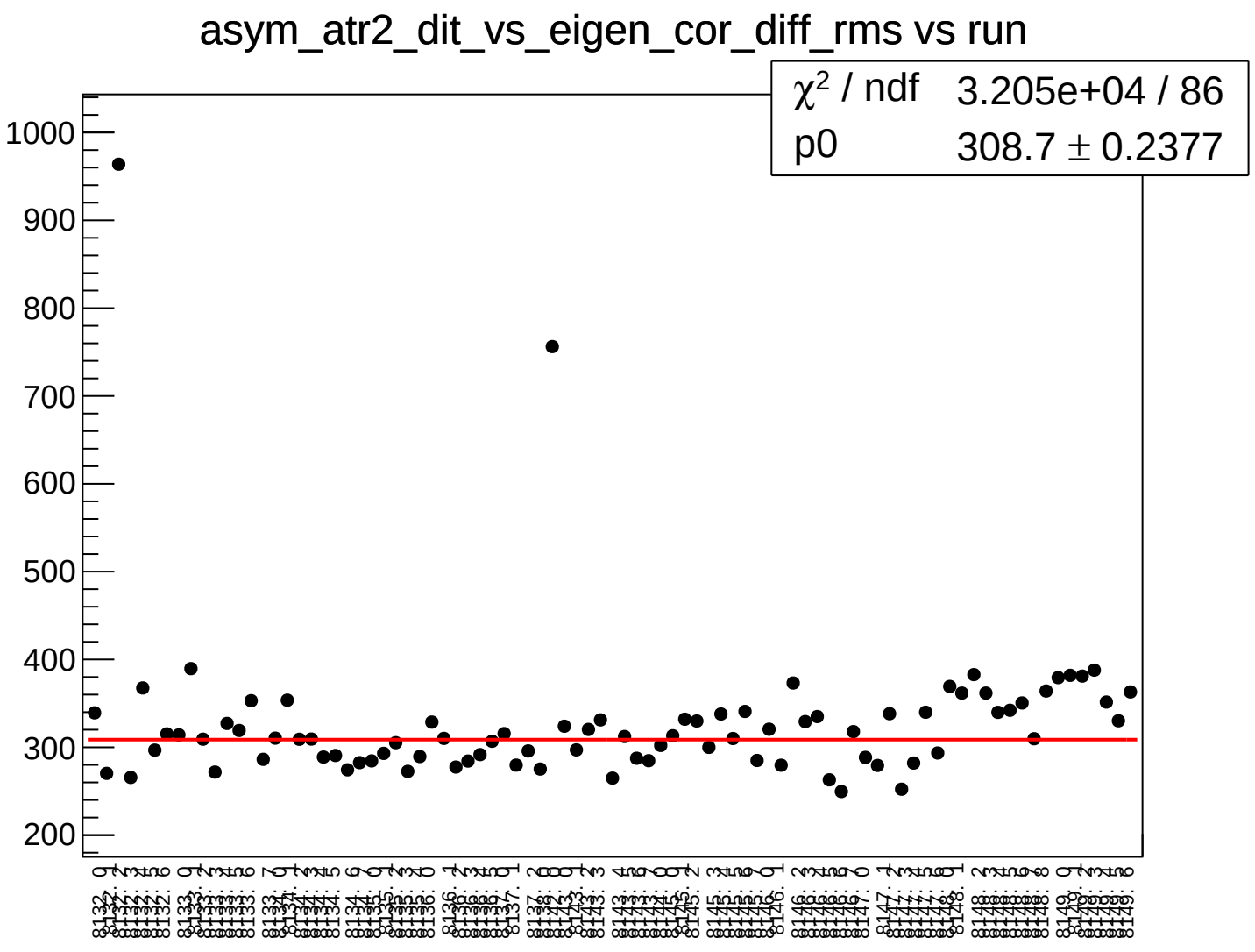

pull1D
Entries 87
Mean 0.08408
Std Dev 1.036

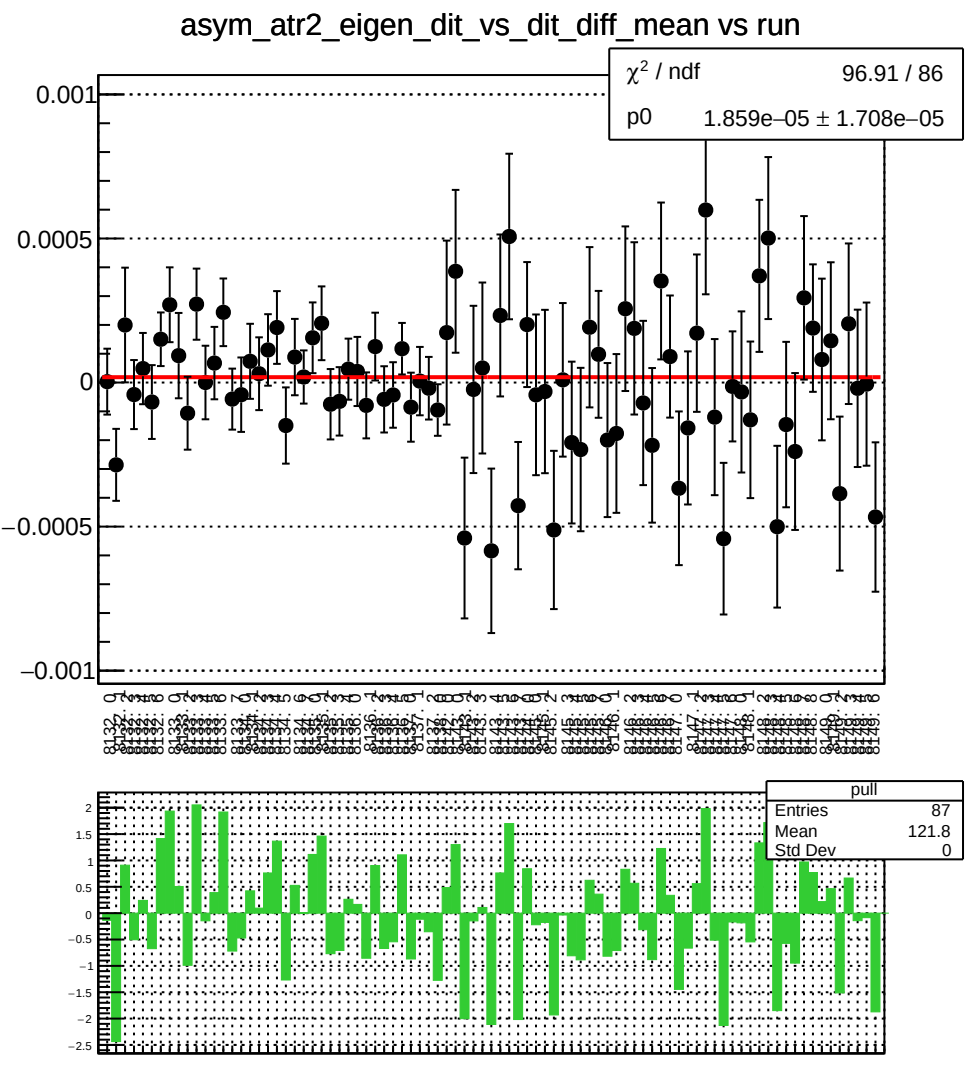

asym_atr2_reg_vs_cor_diff_rms vs run
χ² / ndf 8.575e+05 / 86
p0 1.014e−09 ± 1.092e−12
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

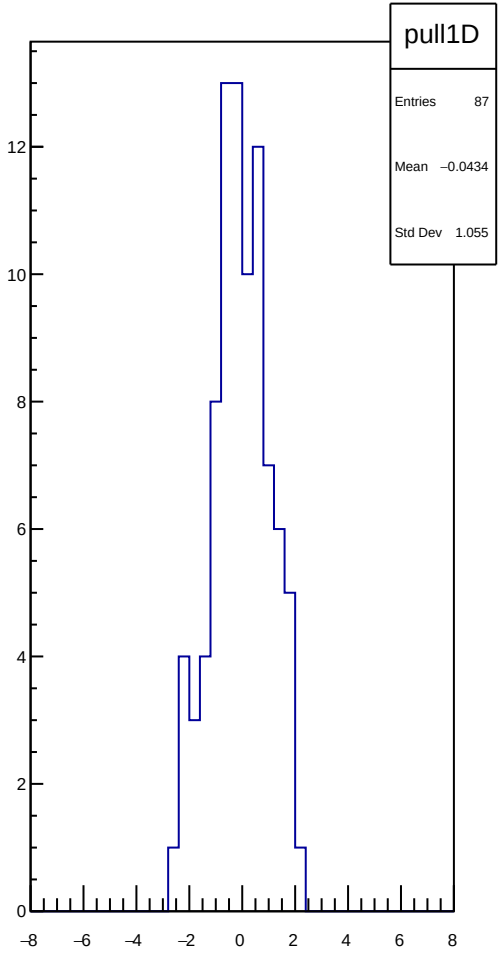

asym_atr2_dit_vs_cor_diff_mean vs run
χ² / ndf 60.21 / 86
p0 0.4678 ± 0.3362
pull
Entries 87
Mean −304.9
Std Dev 0
pull1D
Entries 87
Mean 0.003358
Std Dev 0.8319

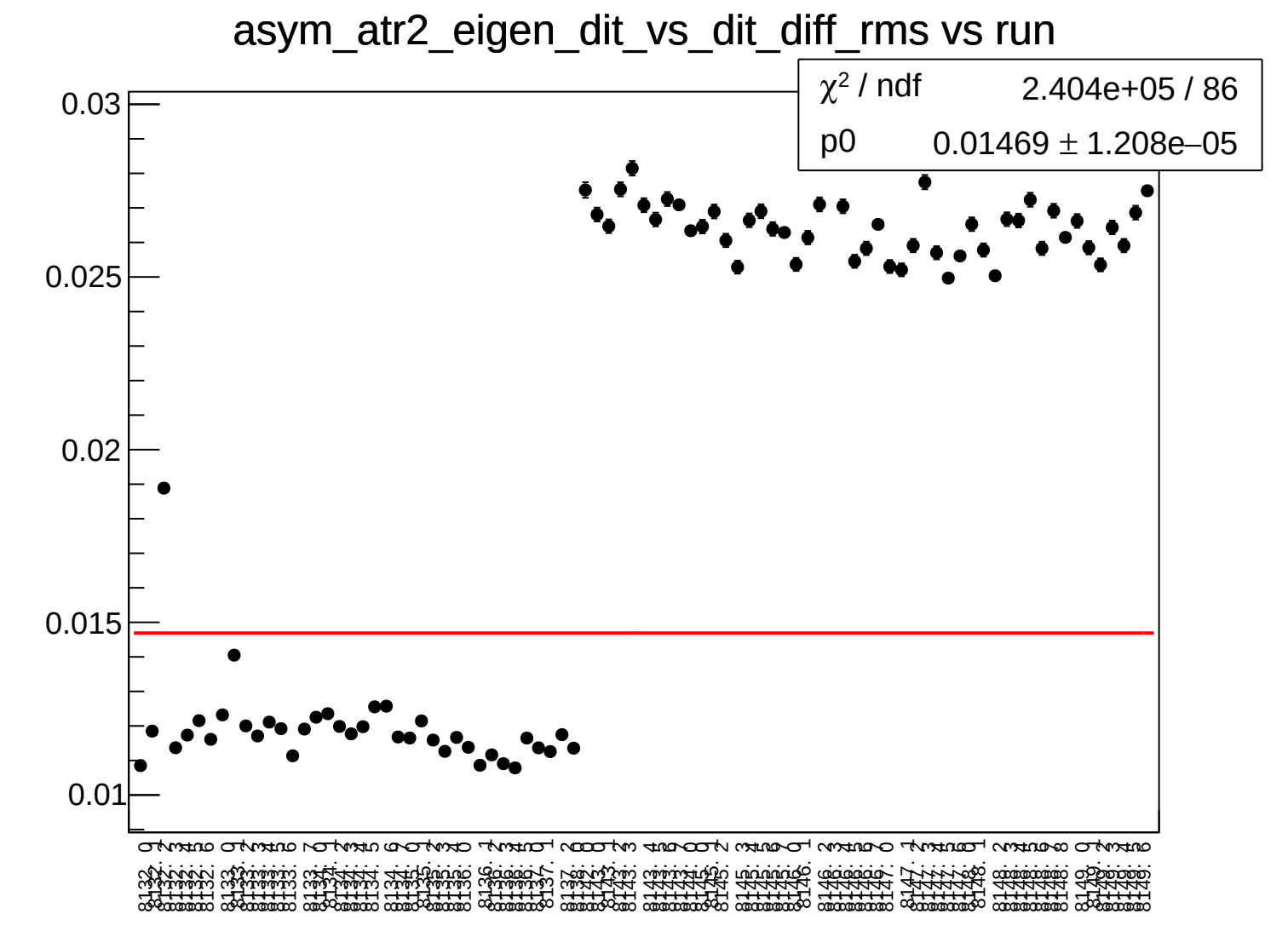

asym_atr2_dit_vs_cor_diff_rms vs run
χ² / ndf 3.205e+04 / 86
p0 308.7 ± 0.2377
1000
900
800
700
600
500
400
300
200

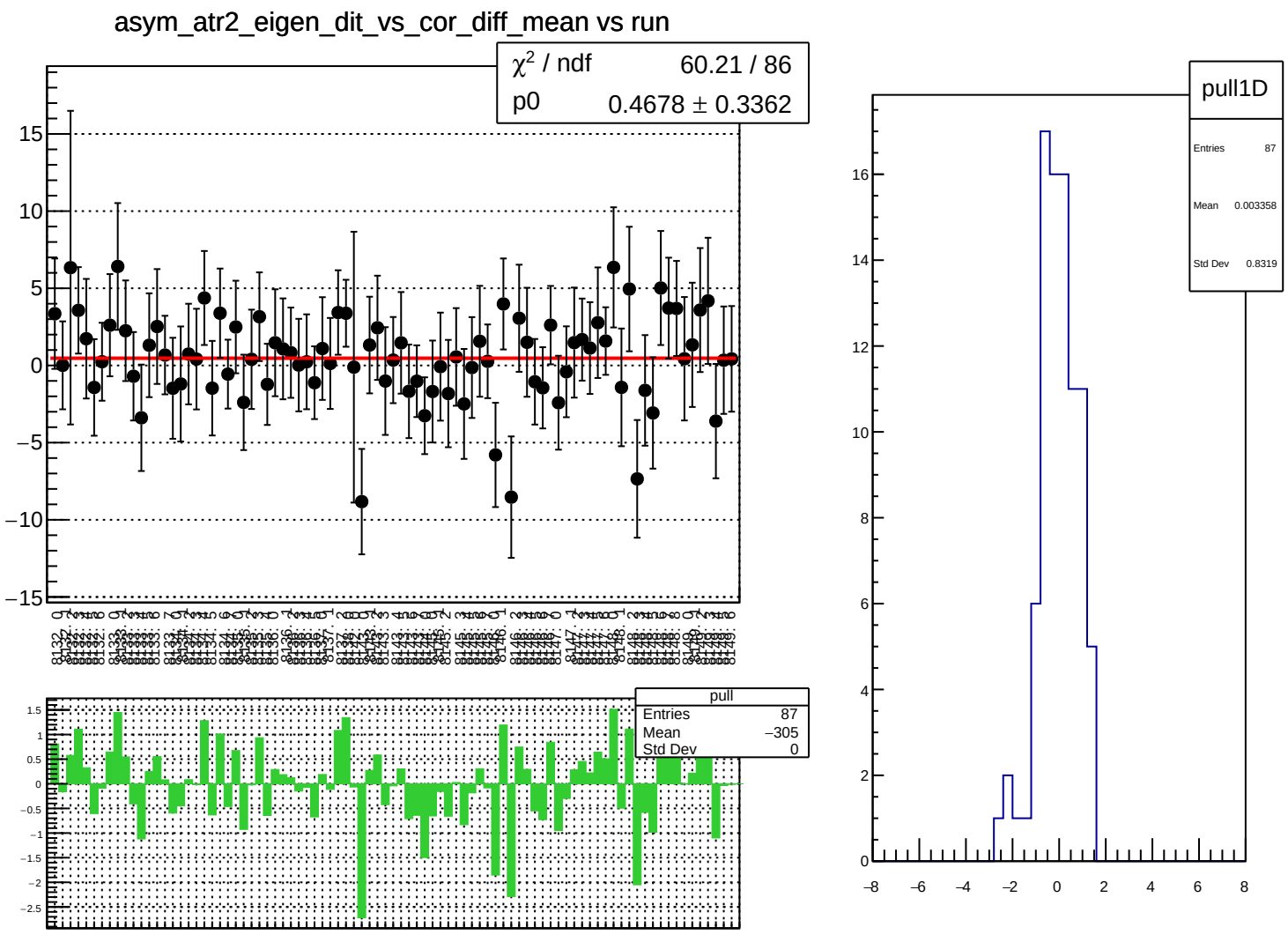

asym_atr2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 60.21 / 86
p0 0.4678 ± 0.3362
pull
Entries 87
Mean −304.9
Std Dev 0
pull1D
Entries 87
Mean 0.003358
Std Dev 0.8319

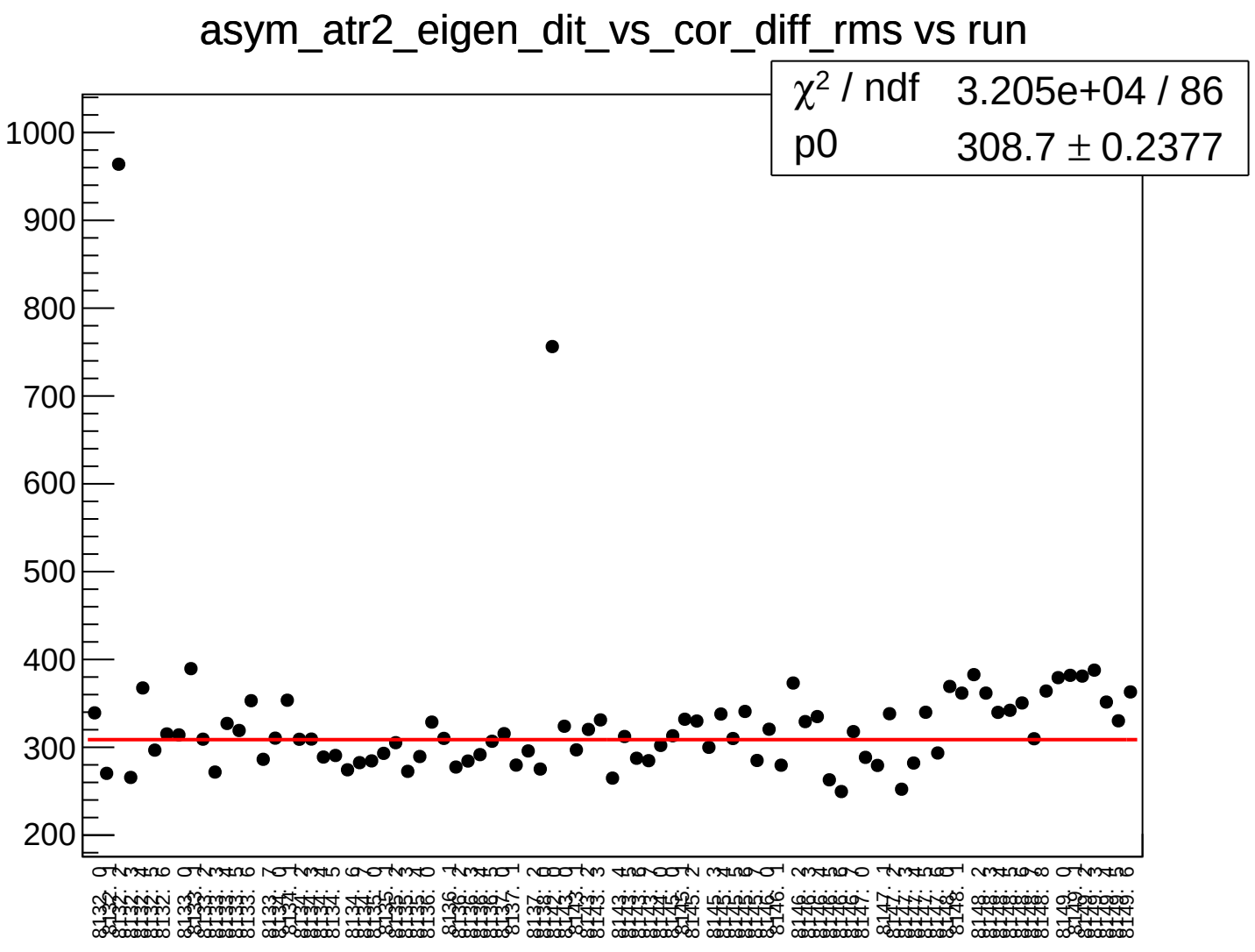

asym_atr2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.205e+04 / 86
p0 308.7 ± 0.2377
1000
900
800
700
600
500
400
300
200

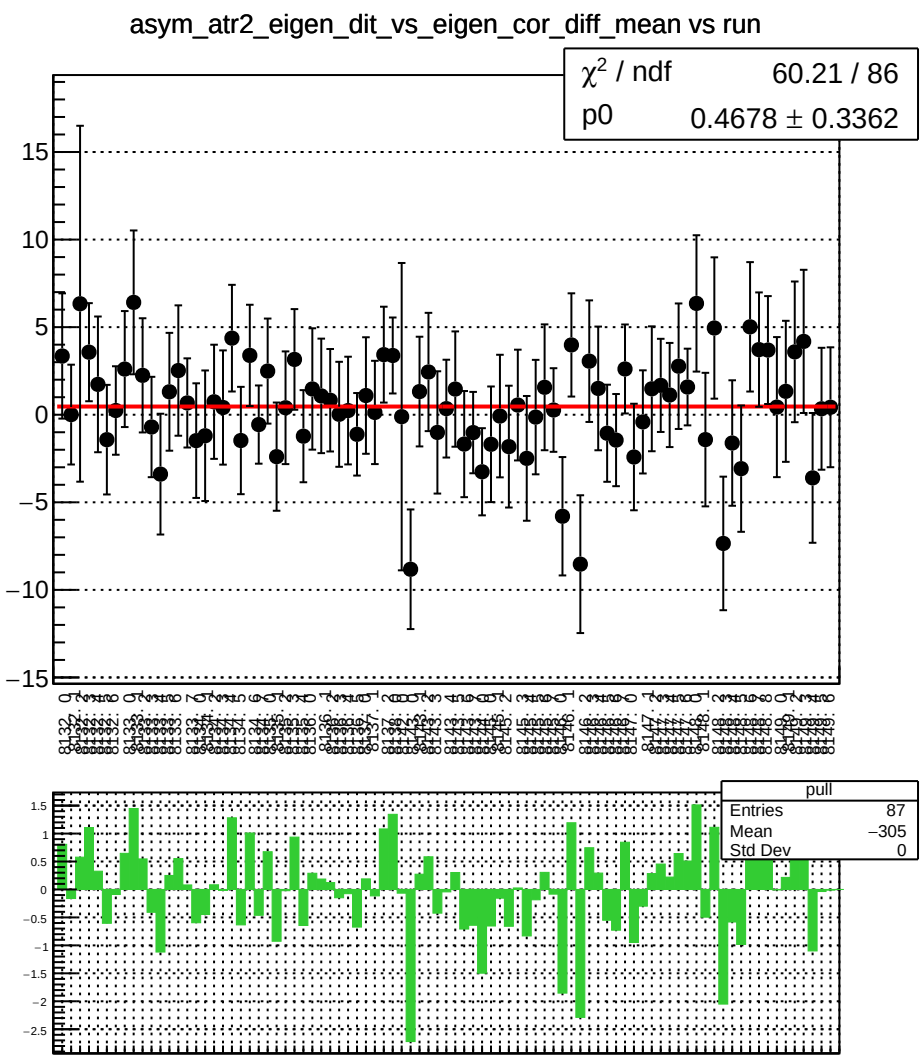

asym_atr2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 96.91 / 86
p0 1.859e−05 ± 1.708e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 87
Mean 121.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

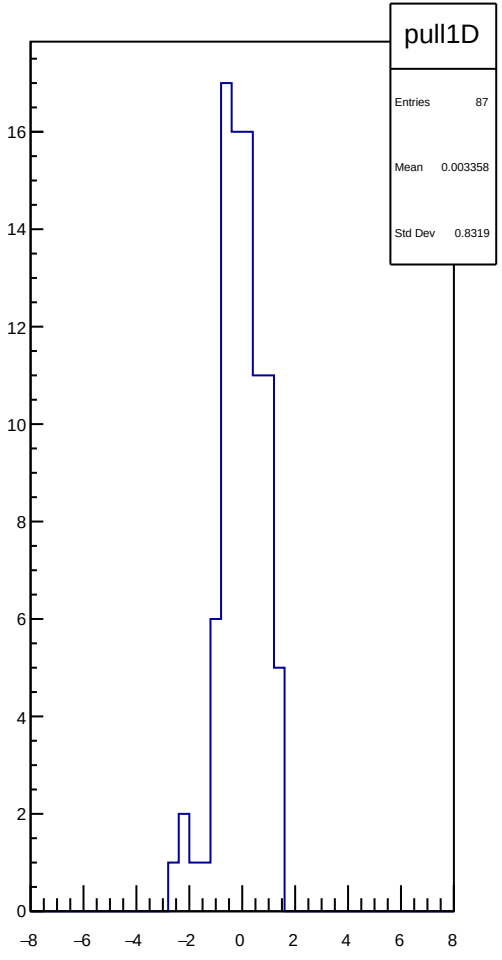

pull1D
Entries 87
Mean −0.0434
Std Dev 1.055
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

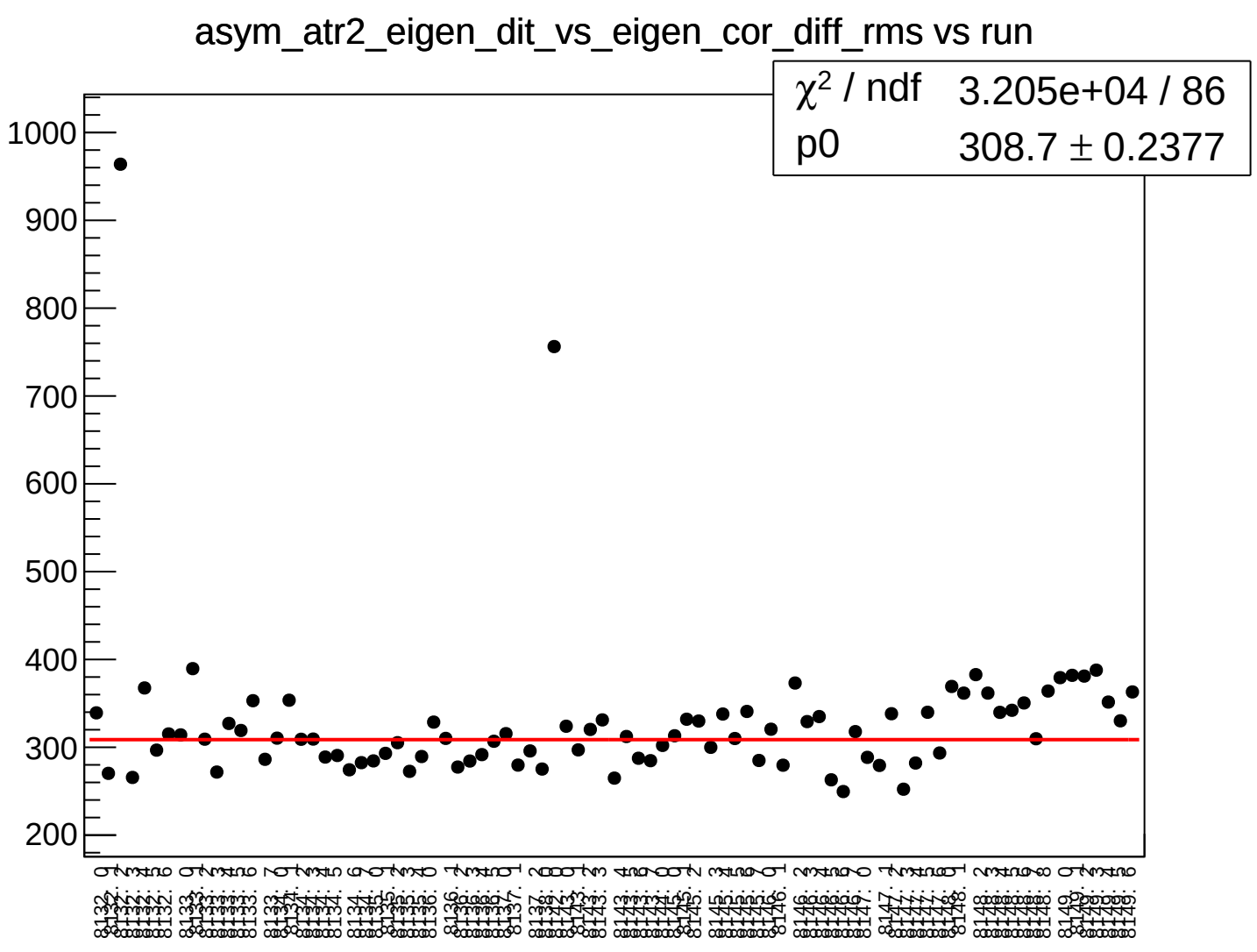

asym_atr2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.404e+05 / 86
p0 0.01469 ± 1.208e−05
0.03
0.025
0.02
0.015
0.01

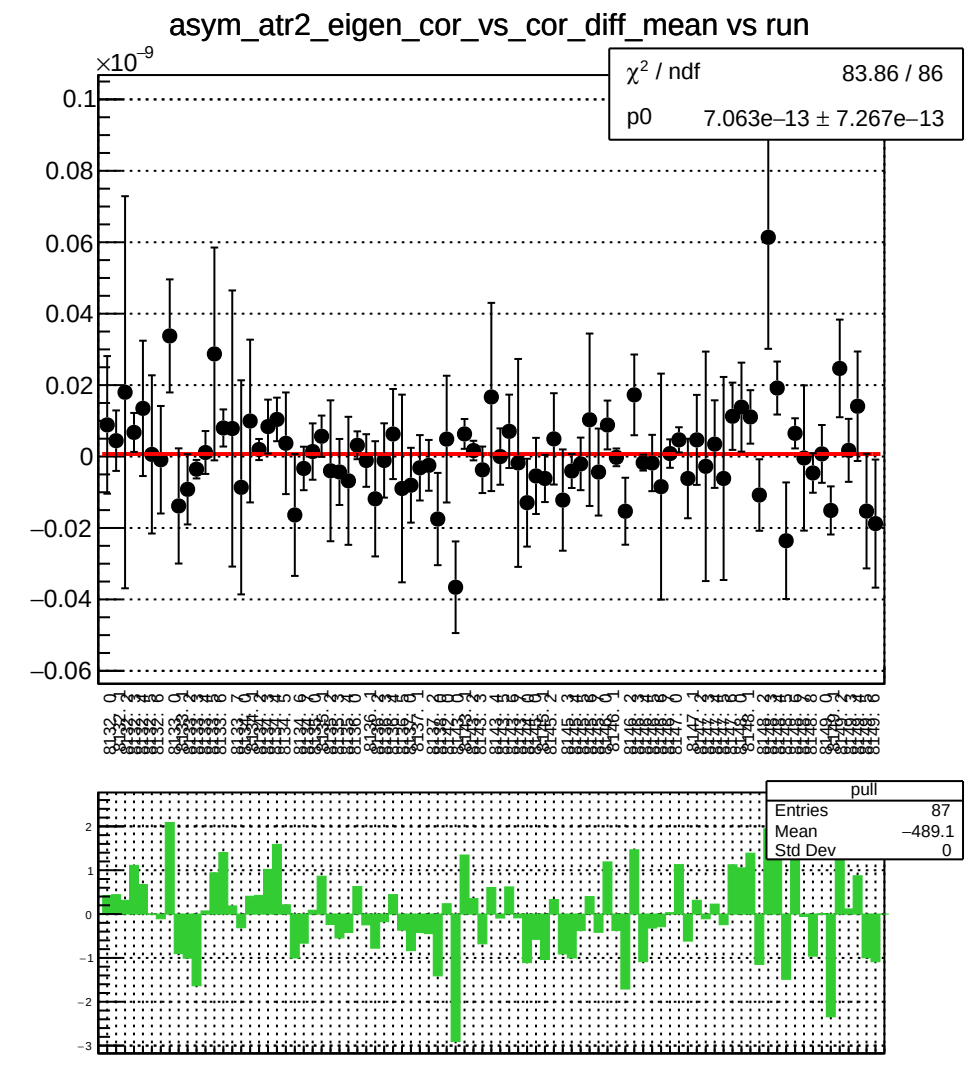

asym_atr2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 60.21 / 86
p0 0.4678 ± 0.3362
pull
Entries 87
Mean −305
Std Dev 0
pull1D
Entries 87
Mean 0.003358
Std Dev 0.8319

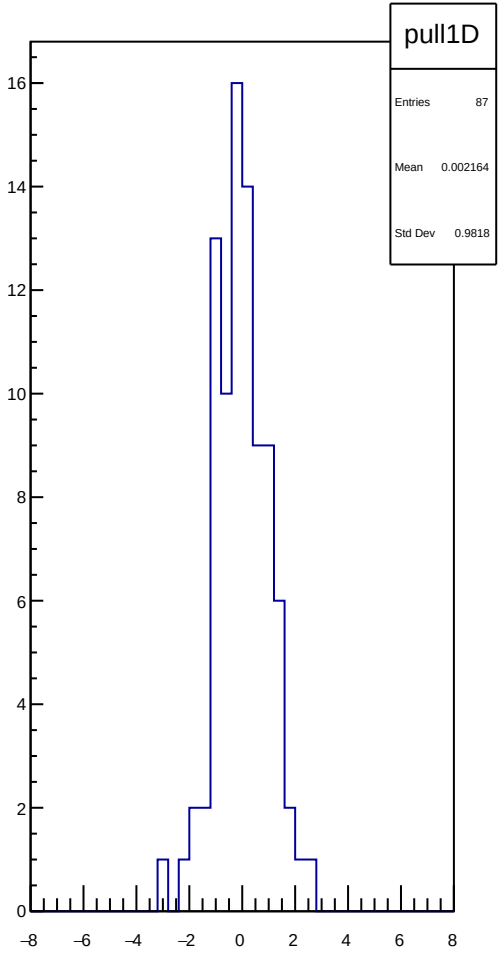

asym_atr2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.205e+04 / 86
p0 308.7 ± 0.2377
1000
900
800
700
600
500
400
300
200


asym_atr2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 60.21 / 86
p0 0.4678 ± 0.3362
pull
Entries 87
Mean −305
Std Dev 0

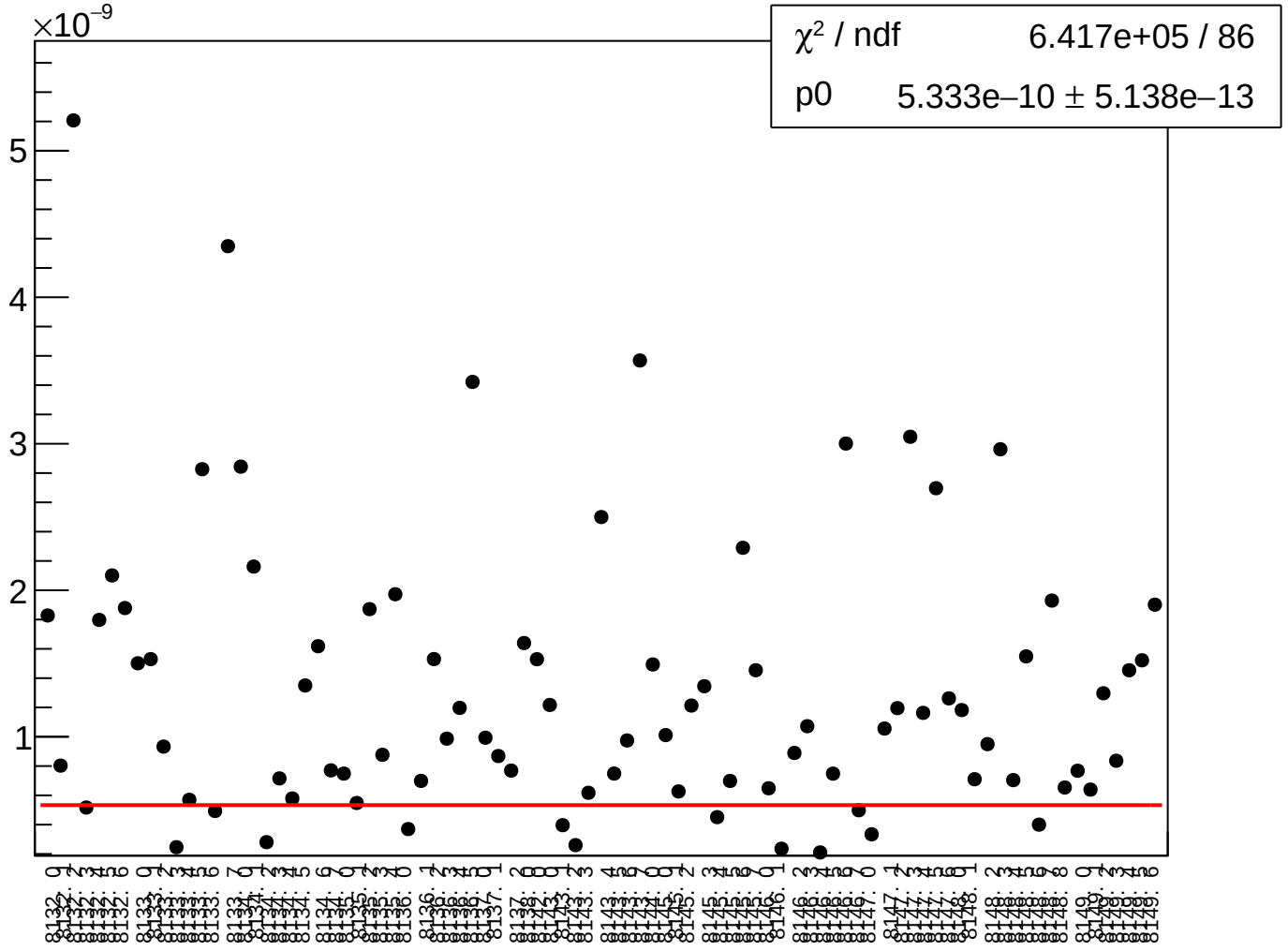

pull1D
Entries 87
Mean 0.003358
Std Dev 0.8319

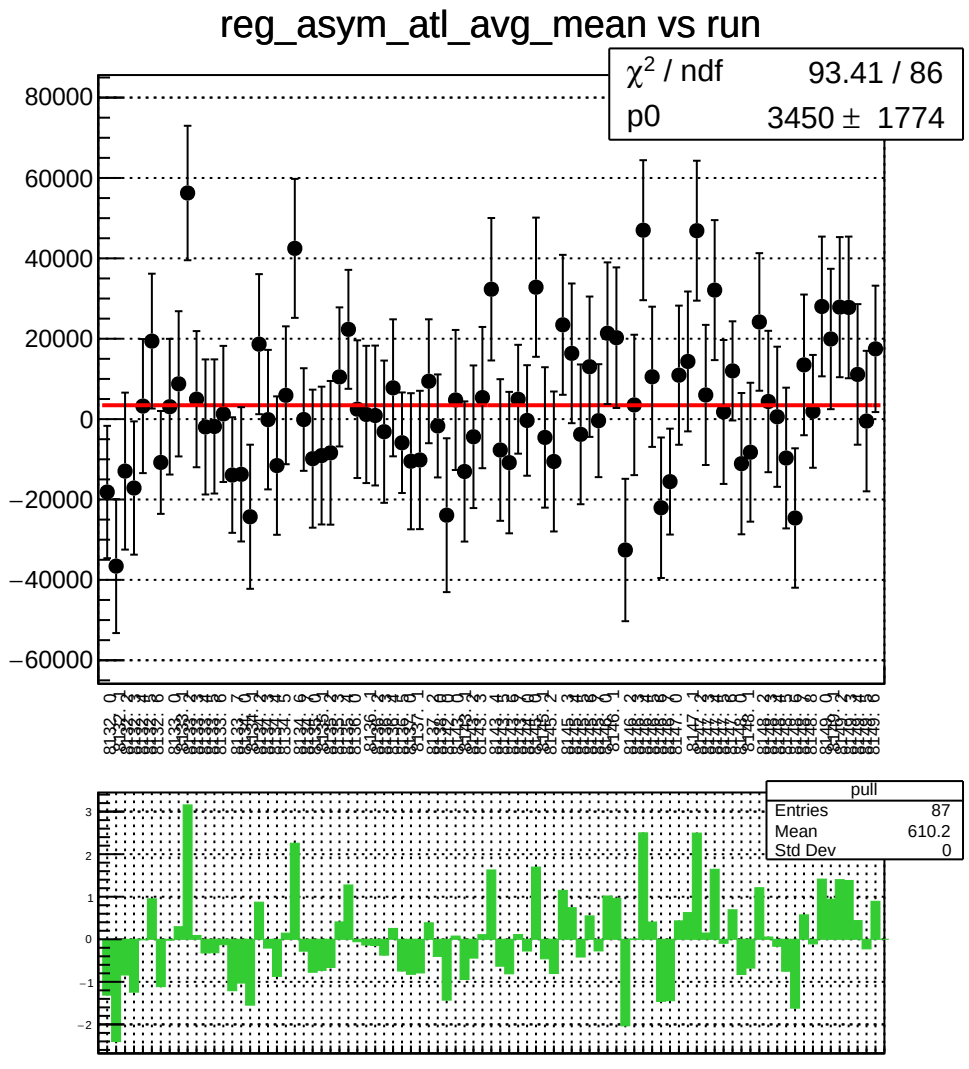

asym_atr2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.205e+04 / 86
p0 308.7 ± 0.2377
1000
900
800
700
600
500
400
300
200

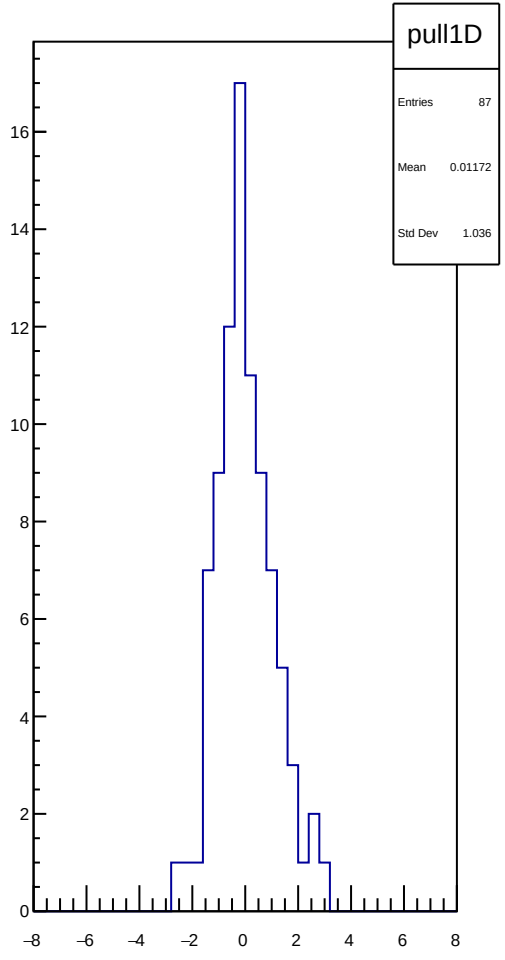

asym_atr2_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 83.86 / 86
p0 7.063e−13 ± 7.267e−13
0.1
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 87
Mean −489.1
Std Dev 0
2
1
0
−1
−2
−3

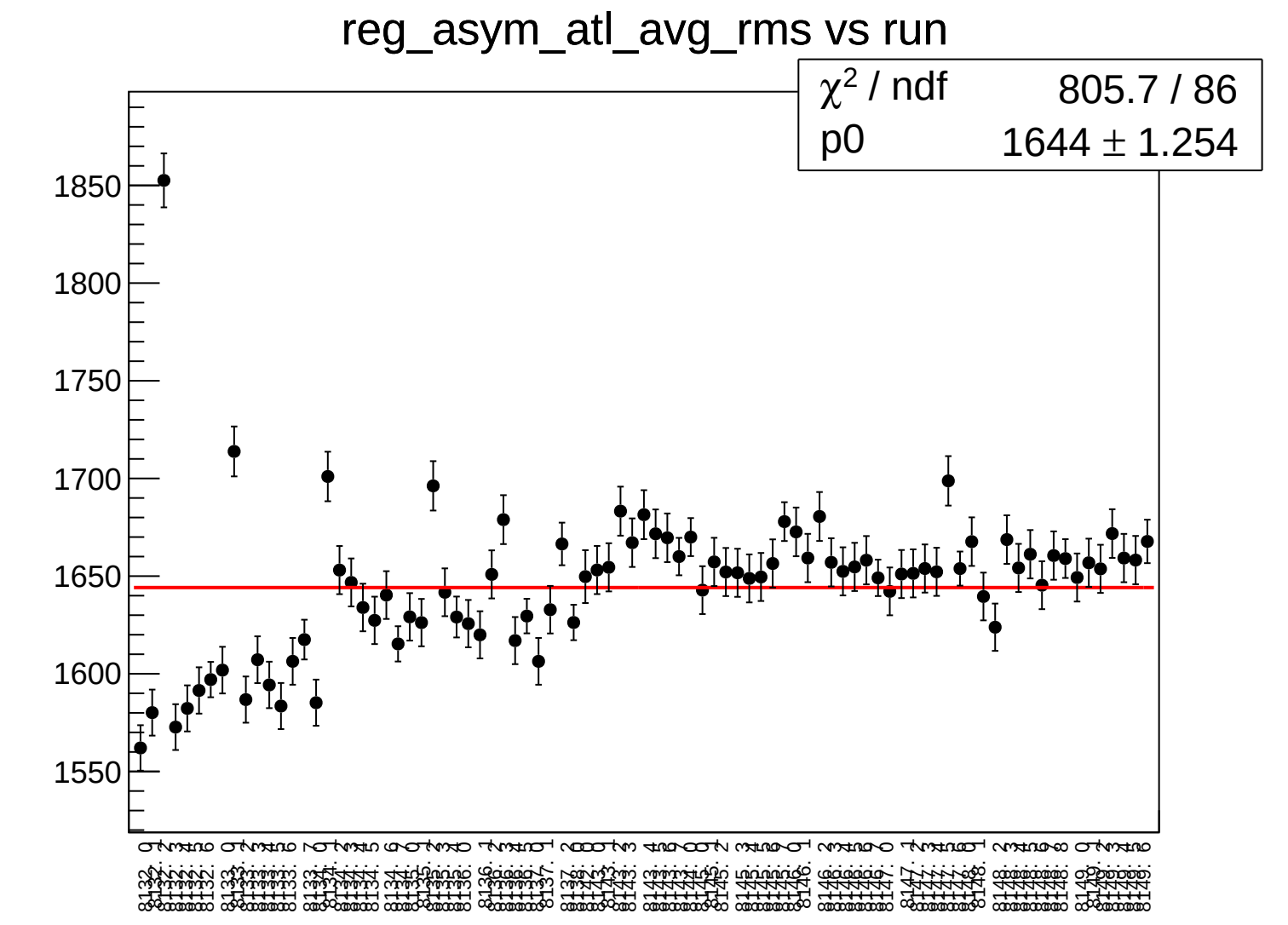

pull1D
Entries 87
Mean 0.002164
Std Dev 0.9818
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

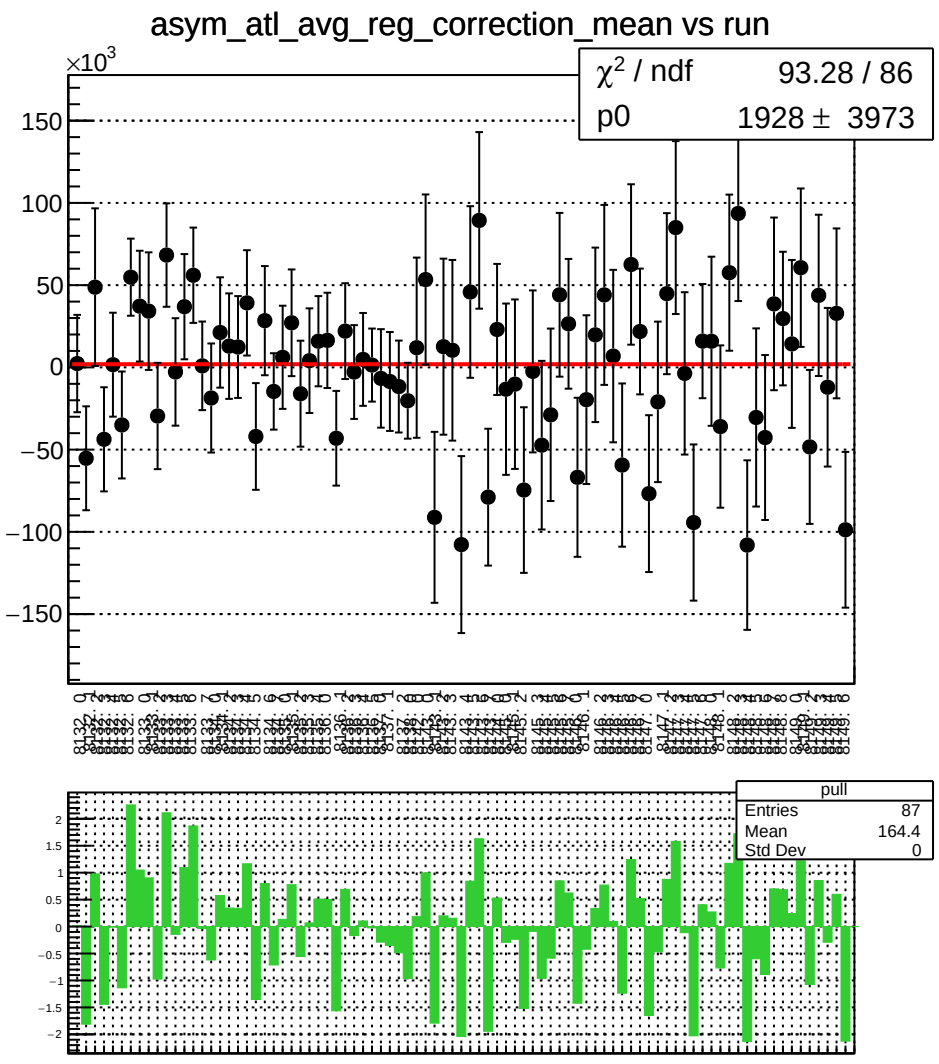
asym_atr2_eigen_cor_vs_cor_diff_rms vs run

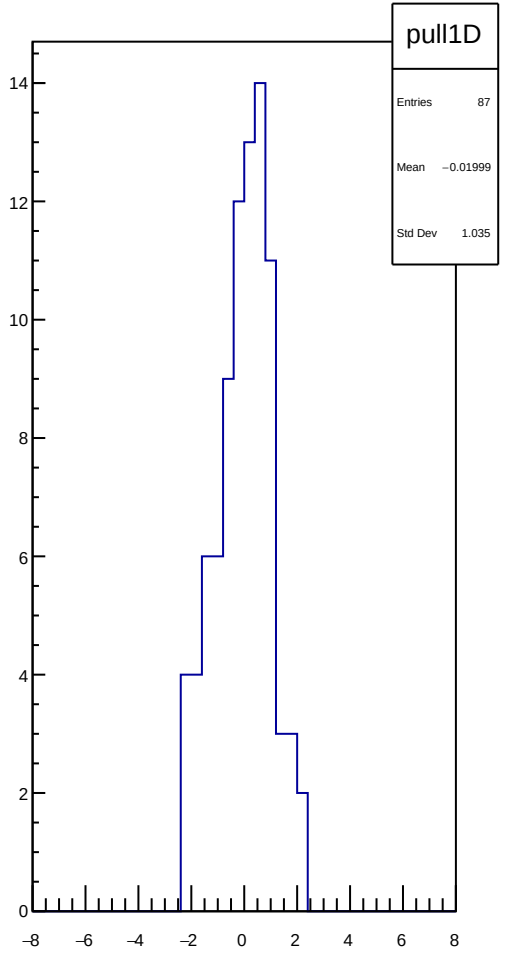


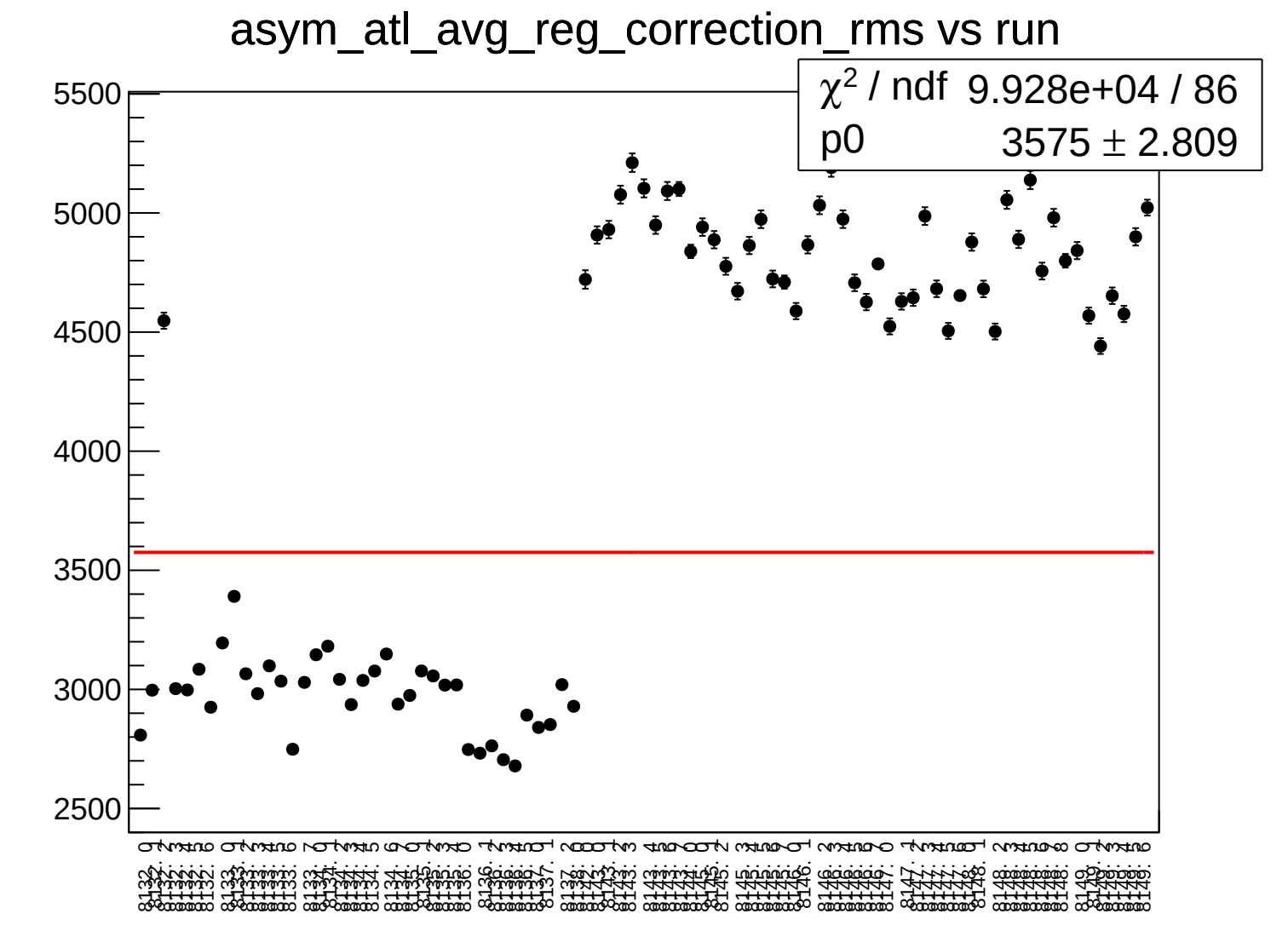

reg_asym_atl_avg_mean vs run
χ² / ndf 93.41 / 86
p0 3450 ± 1774
pull
Entries 87
Mean 610.2
Std Dev 0

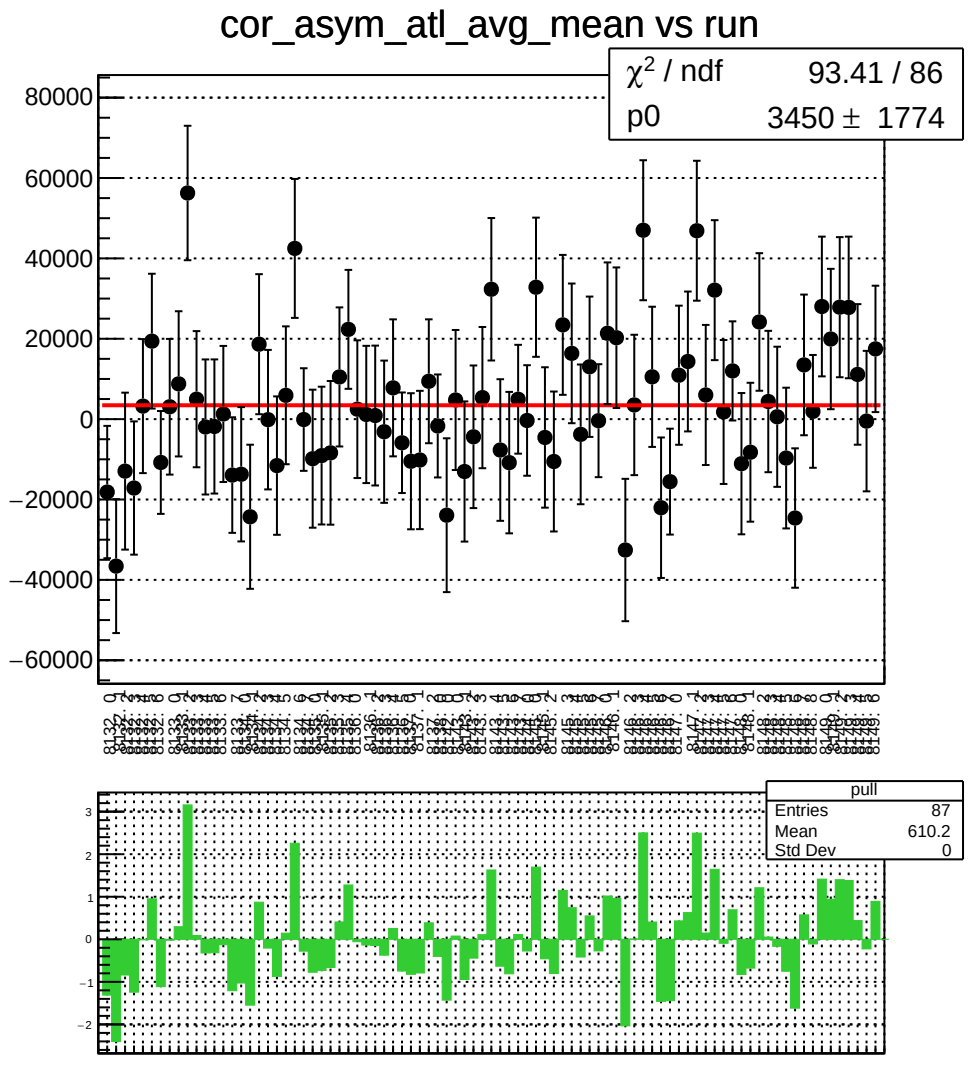

pull1D
Entries 87
Mean 0.01172
Std Dev 1.036

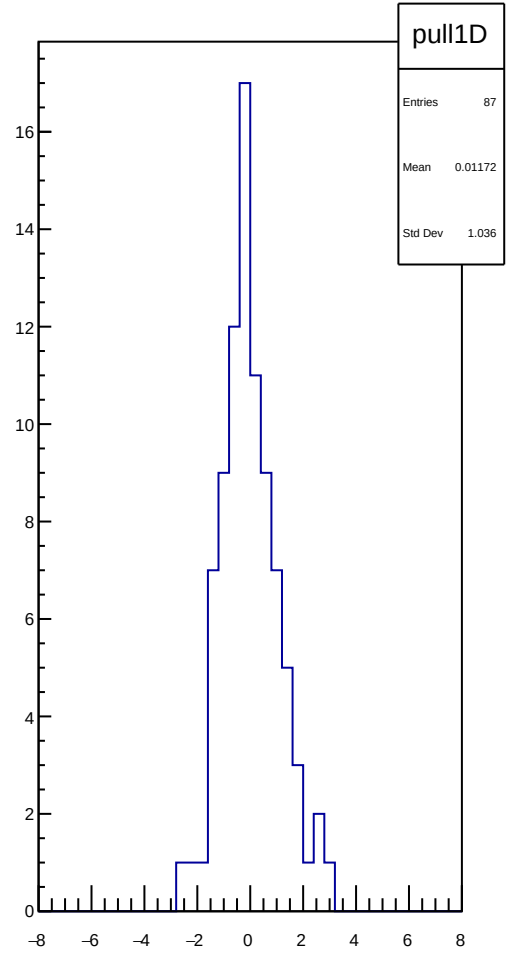

reg_asym_atl_avg_rms vs run
χ^2 / ndf 805.7 / 86
p0 1644 ± 1.254
1850
1800
1750
1700
1650
1600
1550

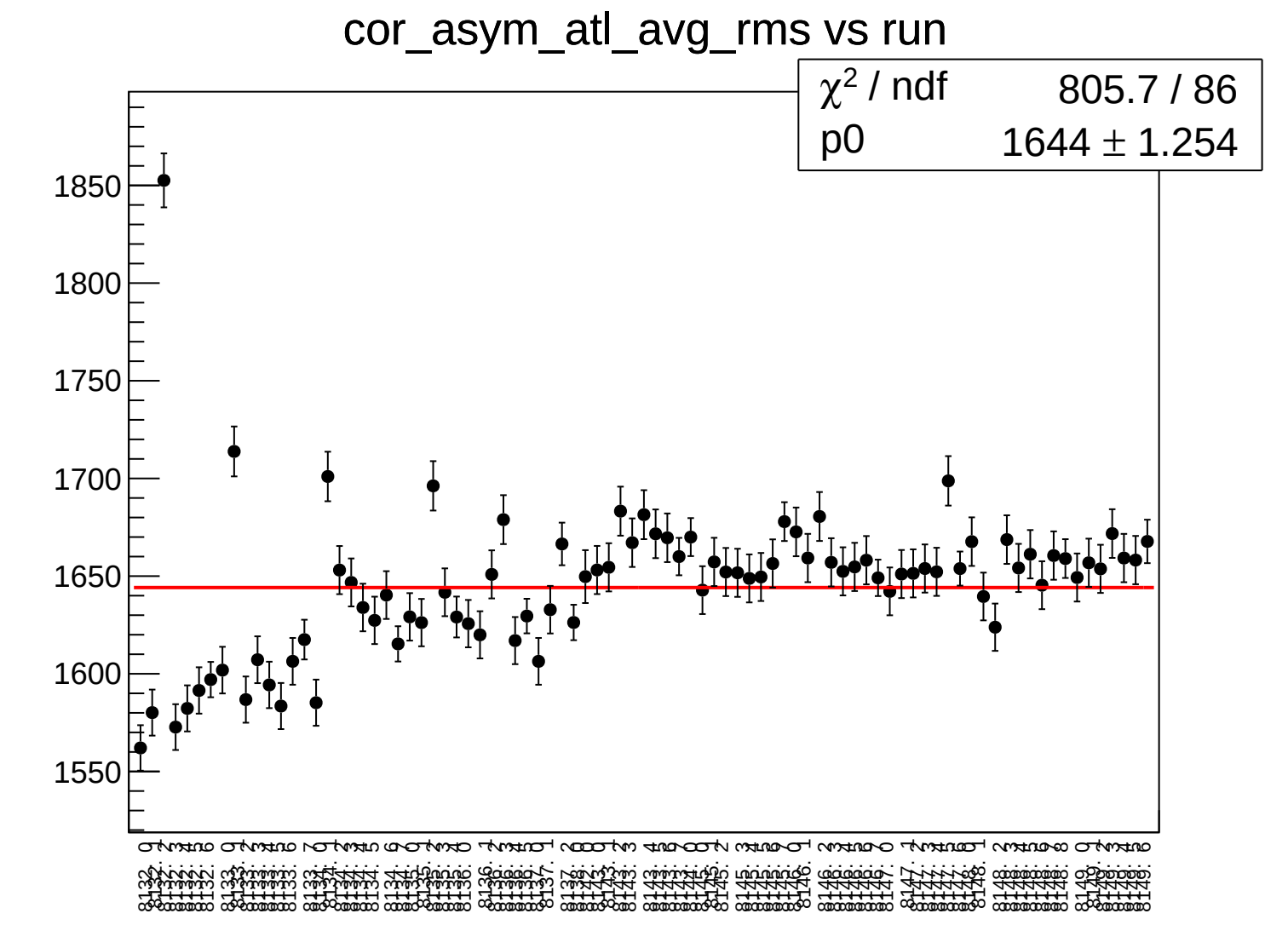

asym_atl_avg_reg_correction_mean vs run
χ² / ndf 93.28 / 86
p0 1928 ± 3973
×10³
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean 164.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

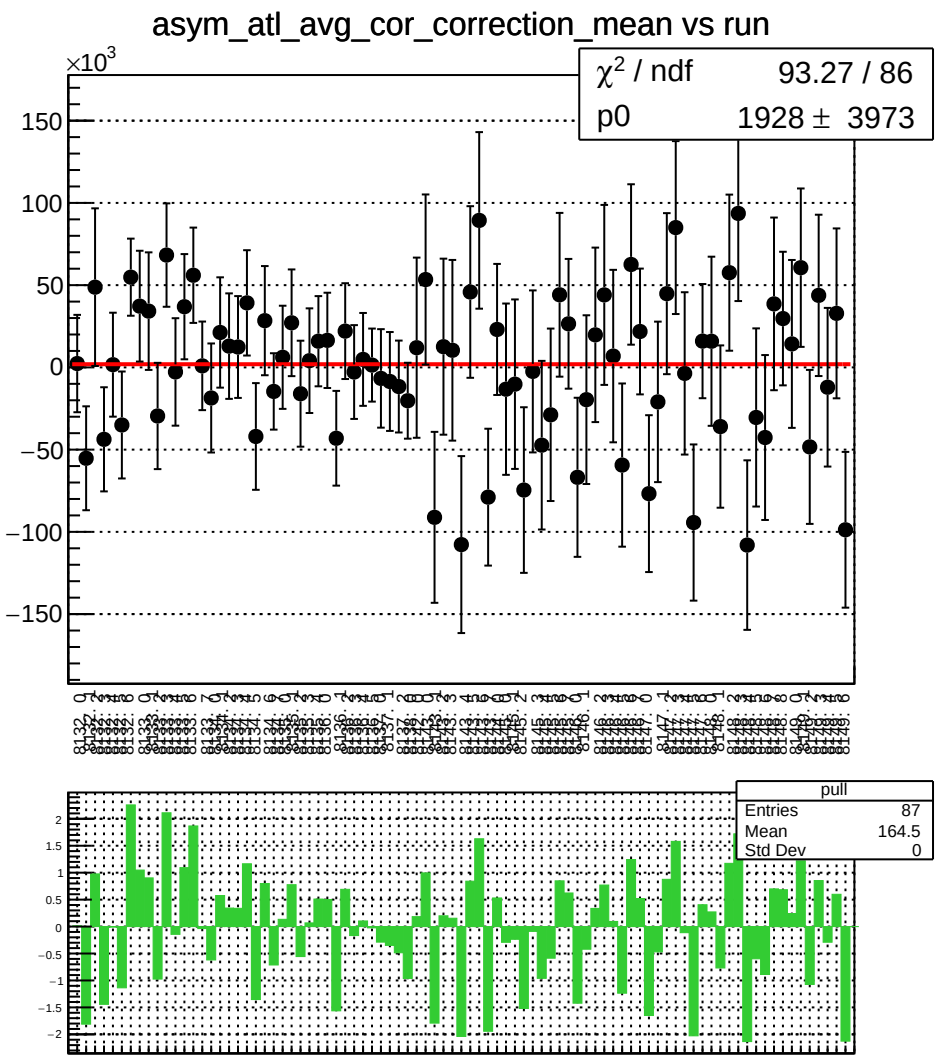

pull1D
Entries 87
Mean −0.01999
Std Dev 1.035
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

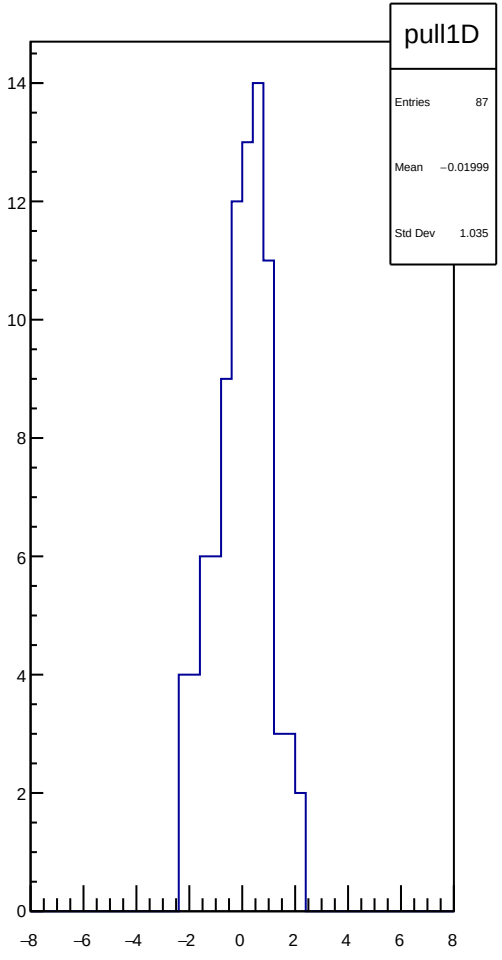

asym_atl_avg_reg_correction_rms vs run
χ² / ndf 9.928e+04 / 86
p0 3575 ± 2.809
5500
5000
4500
4000
3500
3000
2500

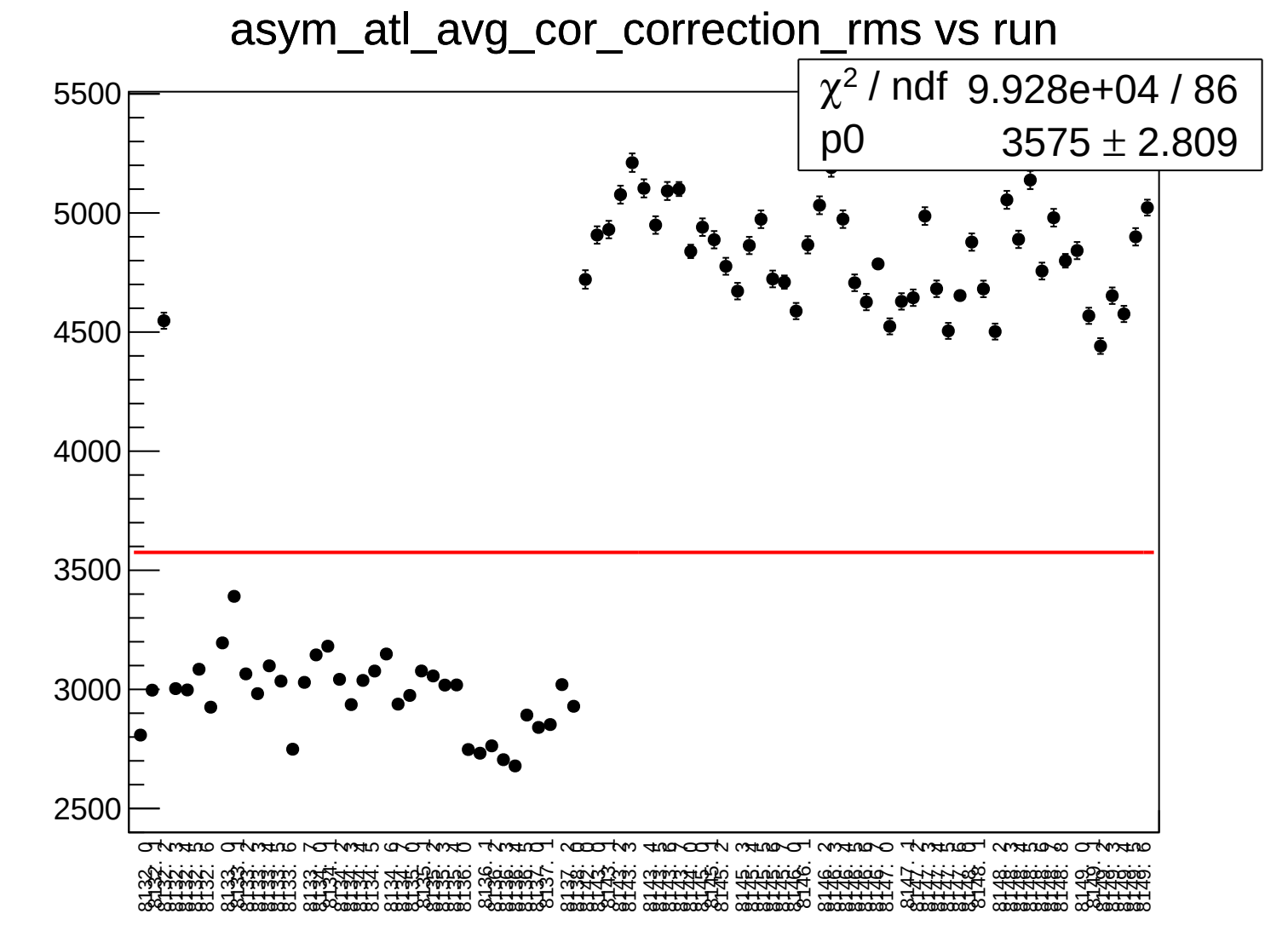

cor_asym_atl_avg_mean vs run
χ² / ndf 93.41 / 86
p0 3450 ± 1774
pull
Entries 87
Mean 610.2
Std Dev 0

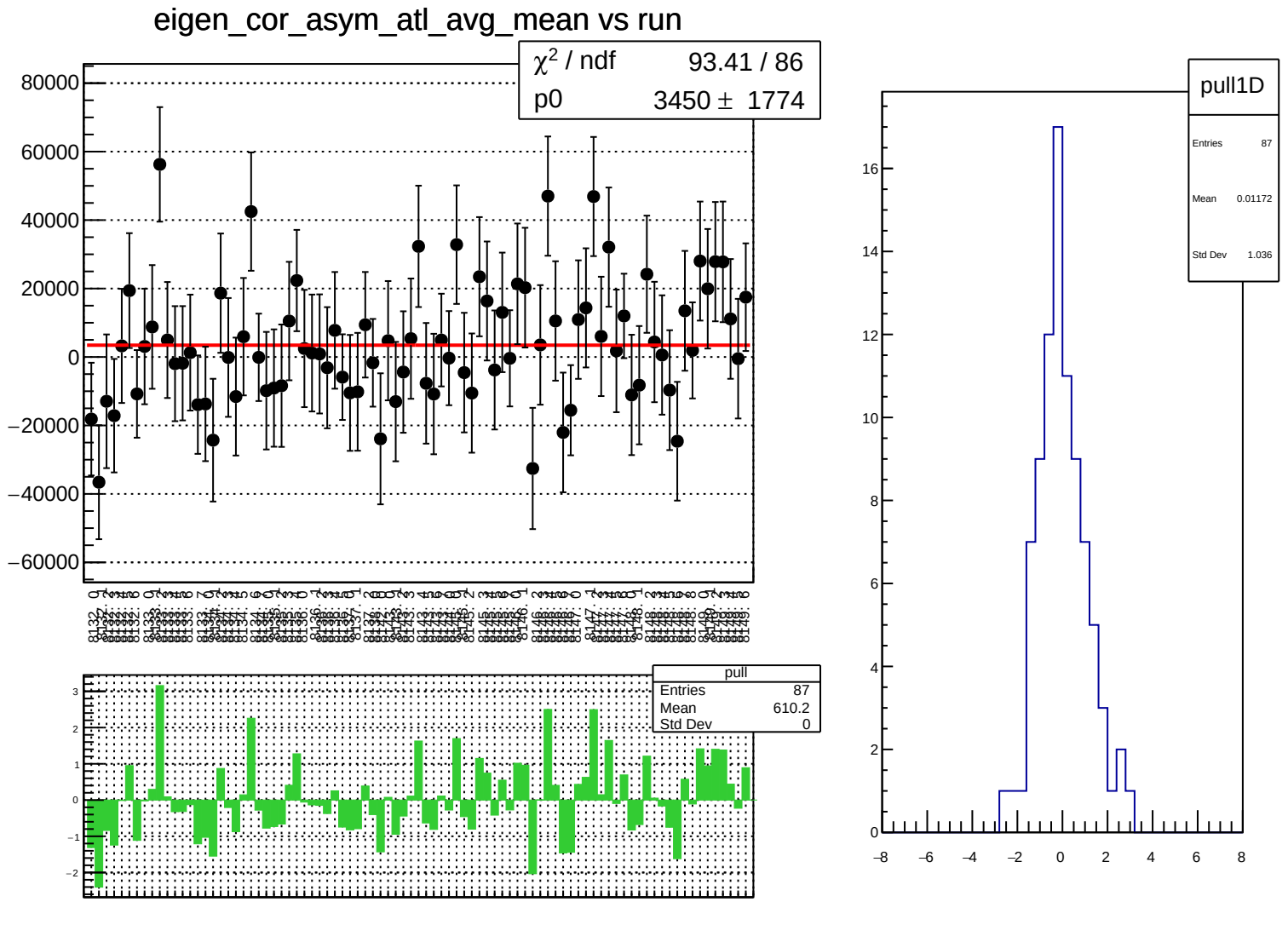

pull1D
Entries 87
Mean 0.01172
Std Dev 1.036

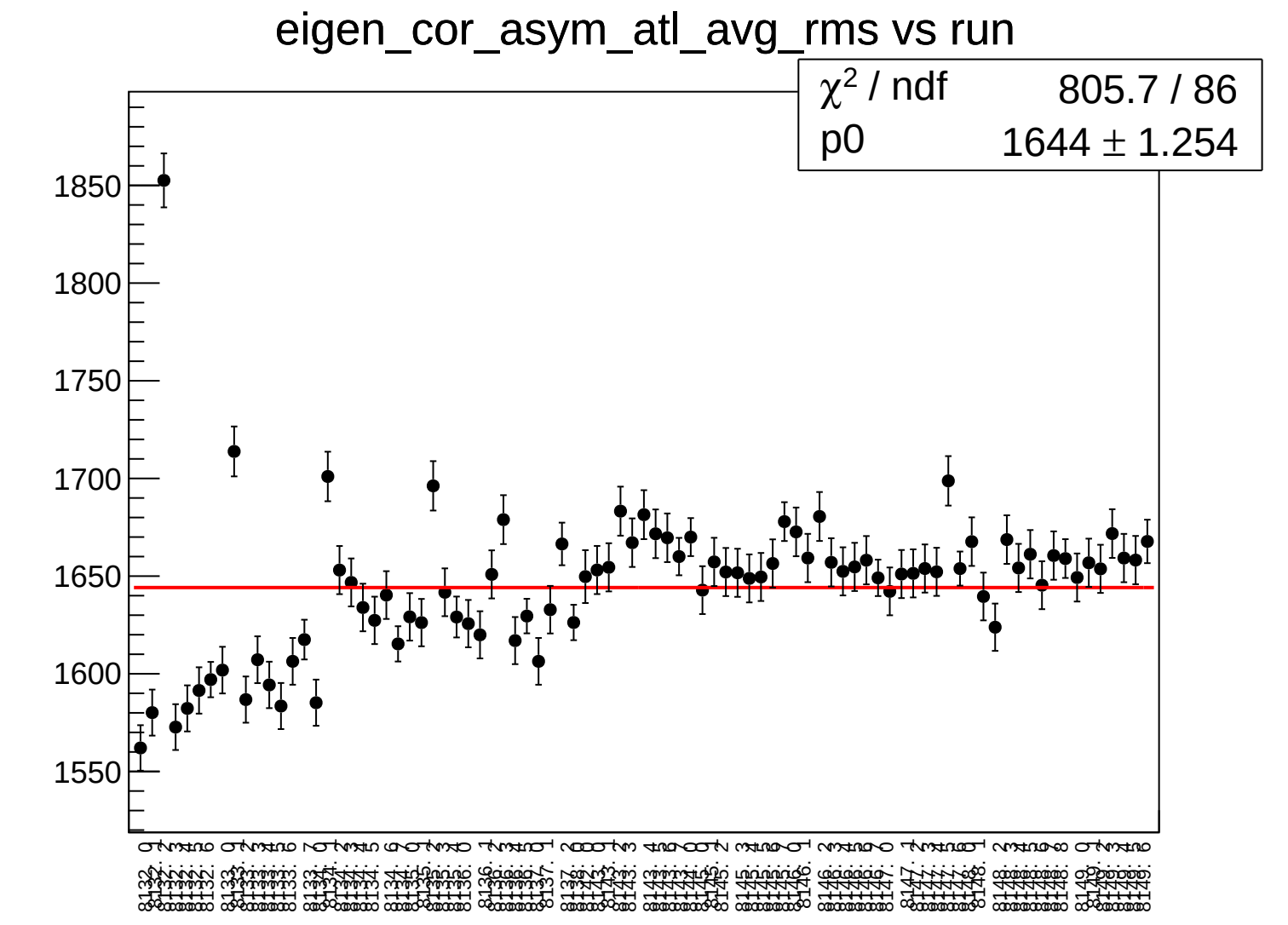

cor_asym_atl_avg_rms vs run
χ^2 / ndf 805.7 / 86
p0 1644 ± 1.254
1850
1800
1750
1700
1650
1600
1550

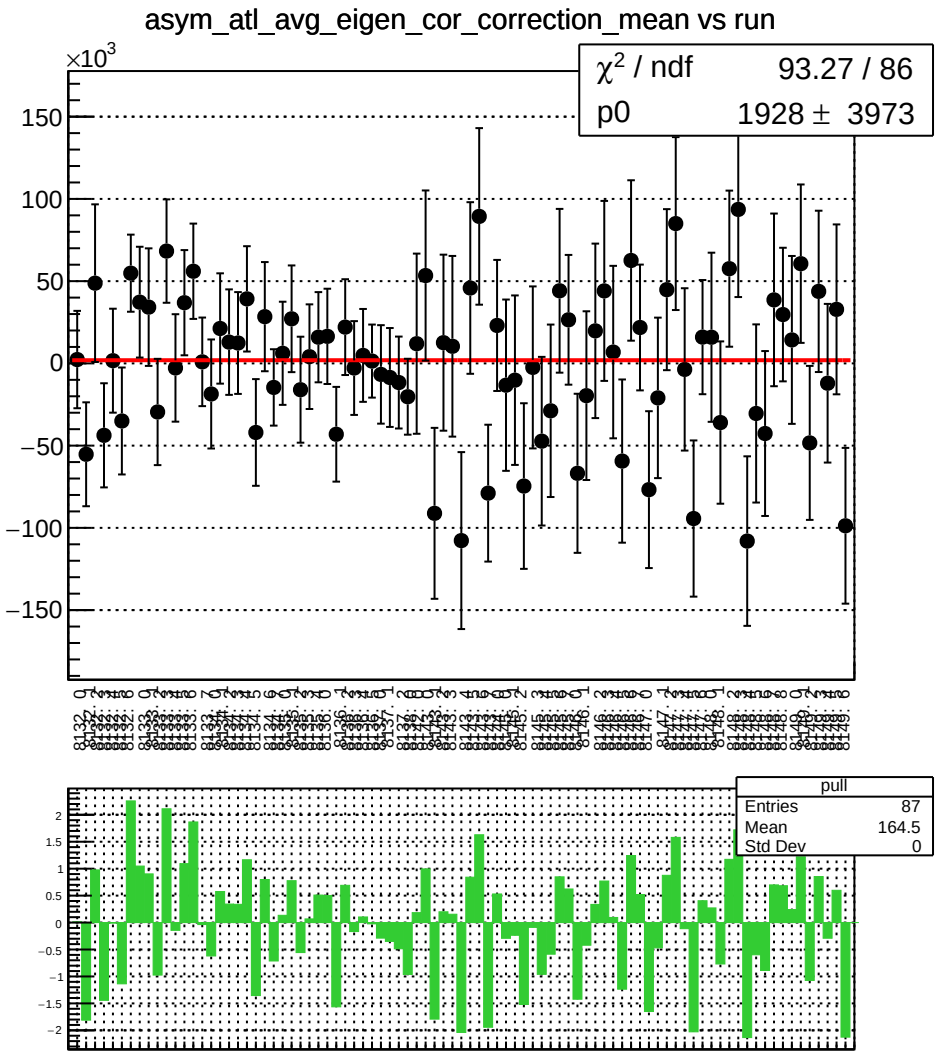

asym_atl_avg_cor_correction_mean vs run
×10^3
χ² / ndf 93.27 / 86
p0 1928 ± 3973
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean 164.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

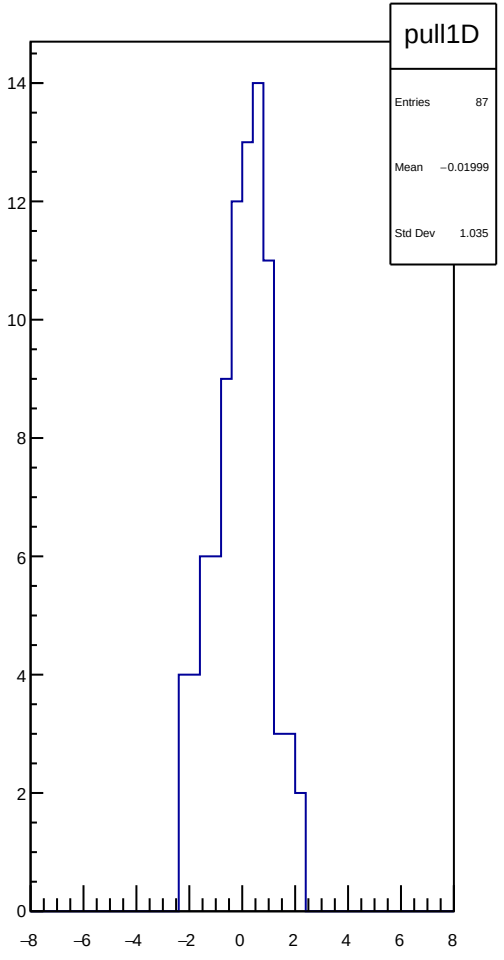

pull1D
Entries 87
Mean −0.01999
Std Dev 1.035
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

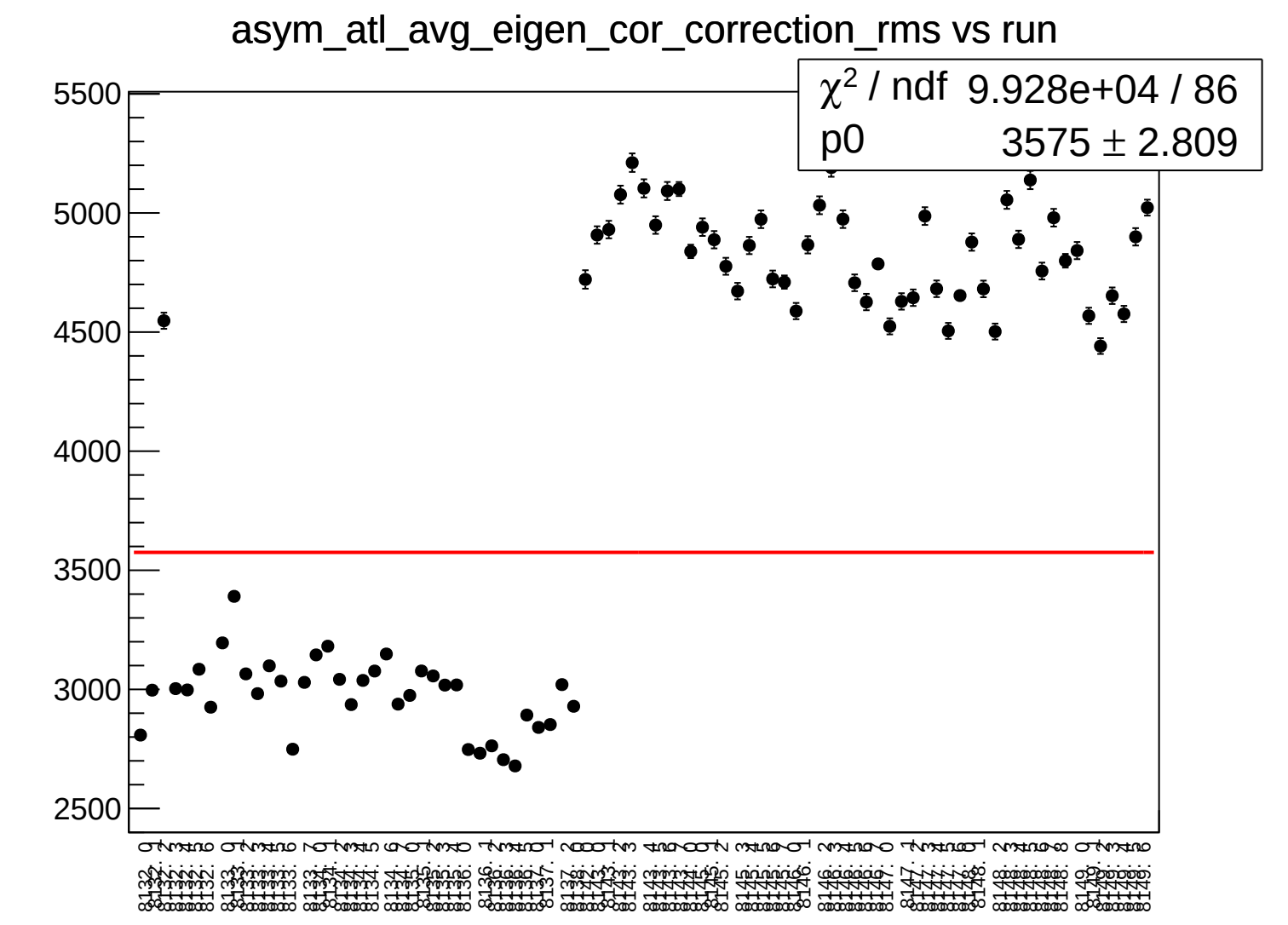

asym_atl_avg_cor_correction_rms vs run
χ^2 / ndf 9.928e+04 / 86
p0 3575 ± 2.809
5500
5000
4500
4000
3500
3000
2500

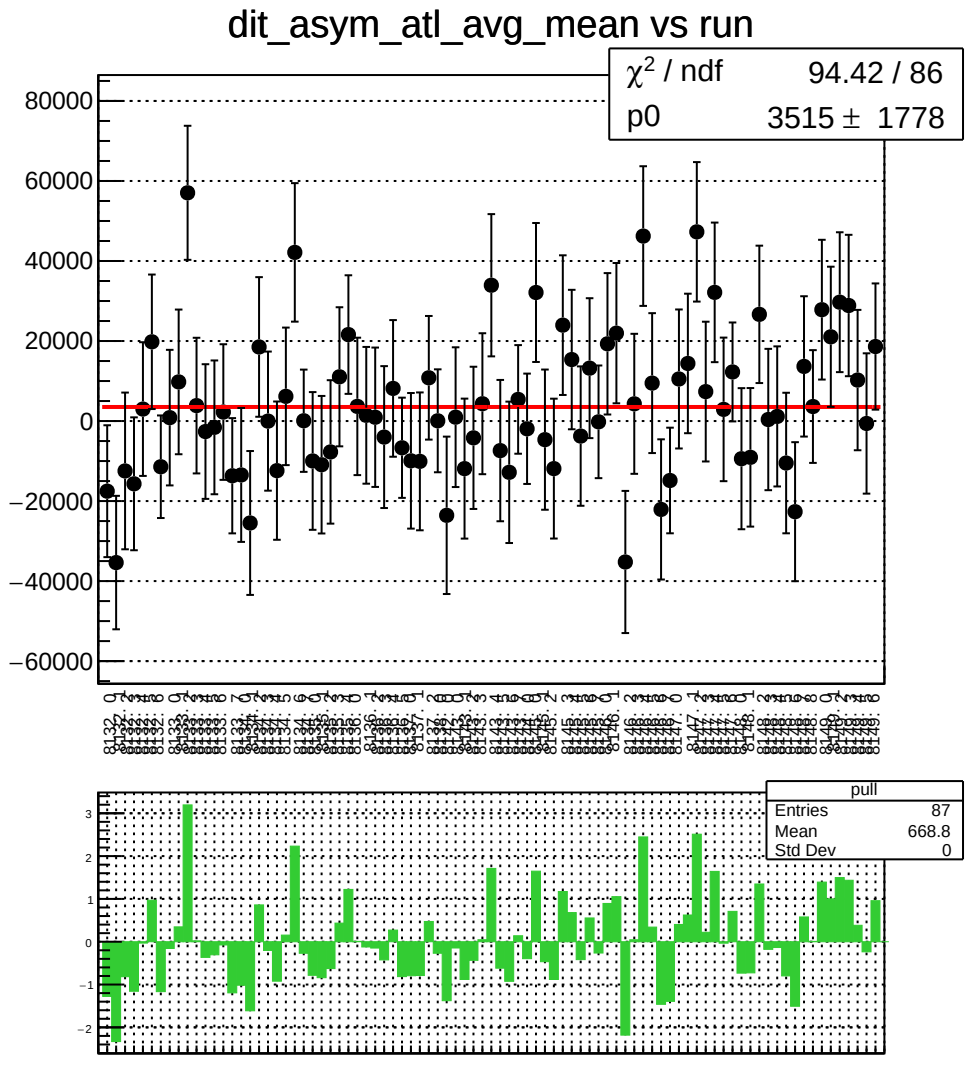

eigen_cor_asym_atl_avg_mean vs run
χ² / ndf 93.41 / 86
p0 3450 ± 1774
pull
Entries 87
Mean 610.2
Std Dev 0
pull1D
Entries 87
Mean 0.01172
Std Dev 1.036

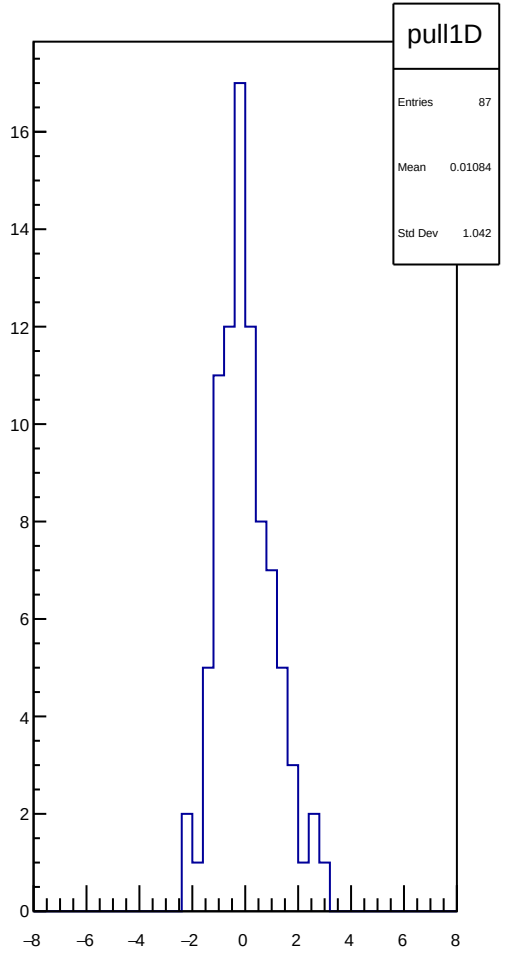

eigen_cor_asym_atl_avg_rms vs run
χ² / ndf 805.7 / 86
p0 1644 ± 1.254
1850
1800
1750
1700
1650
1600
1550

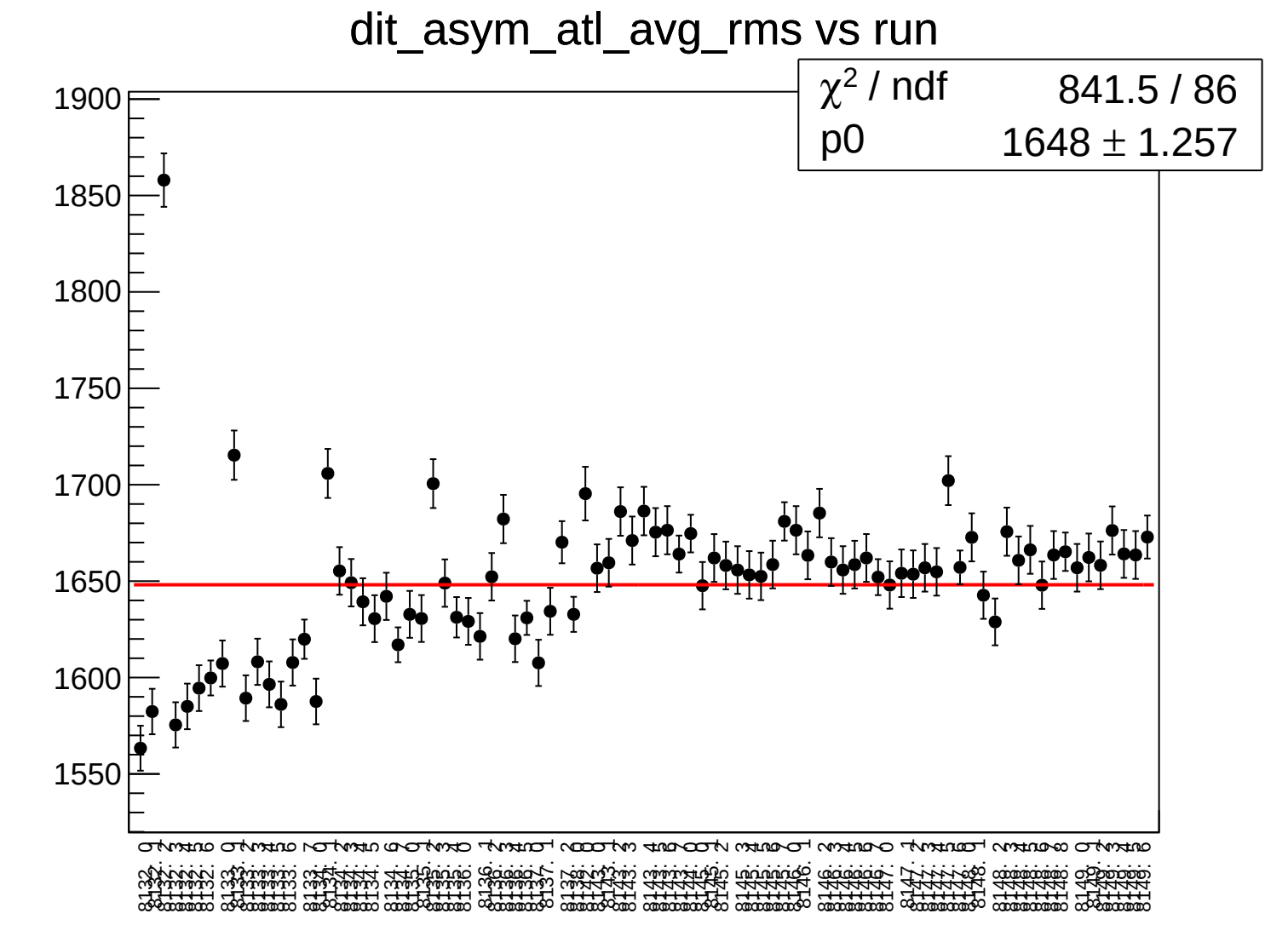

asym_atl_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 93.27 / 86
p0 1928 ± 3973
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean 164.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

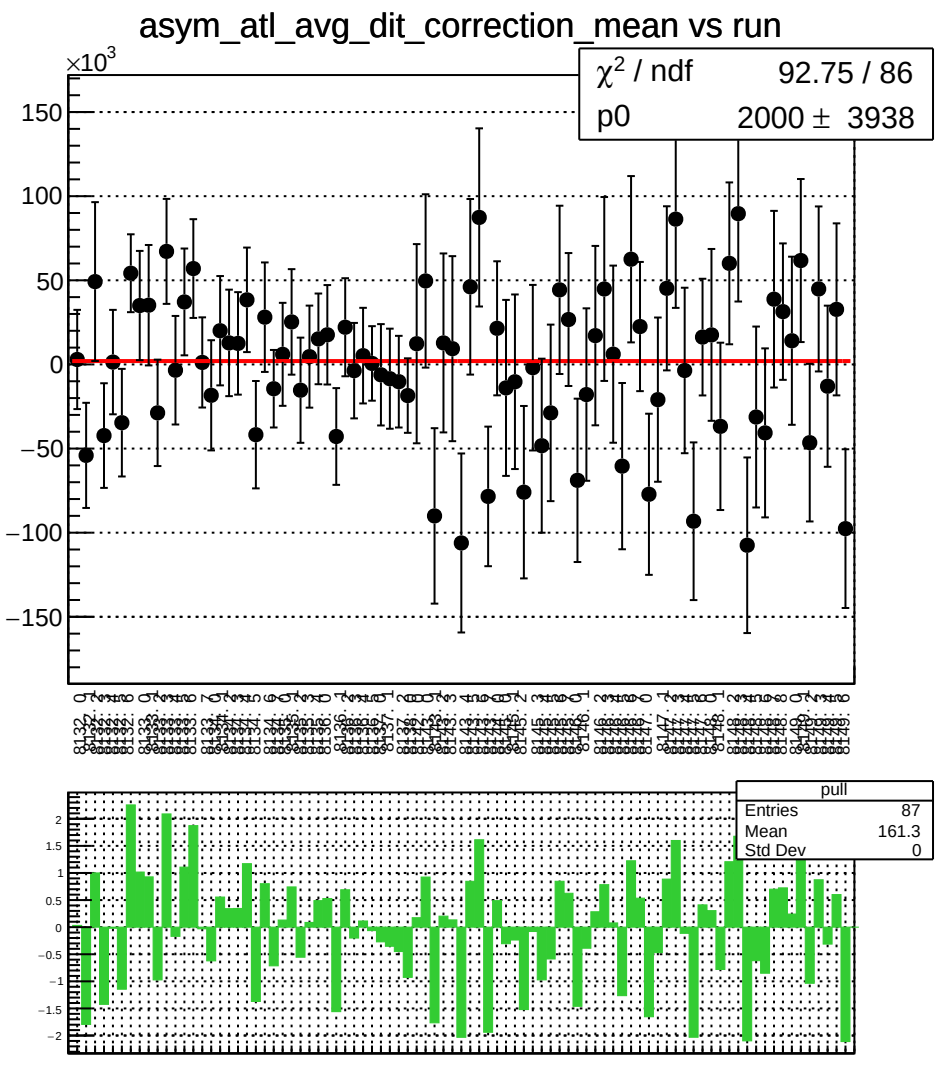

pull1D
Entries 87
Mean −0.01999
Std Dev 1.035
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

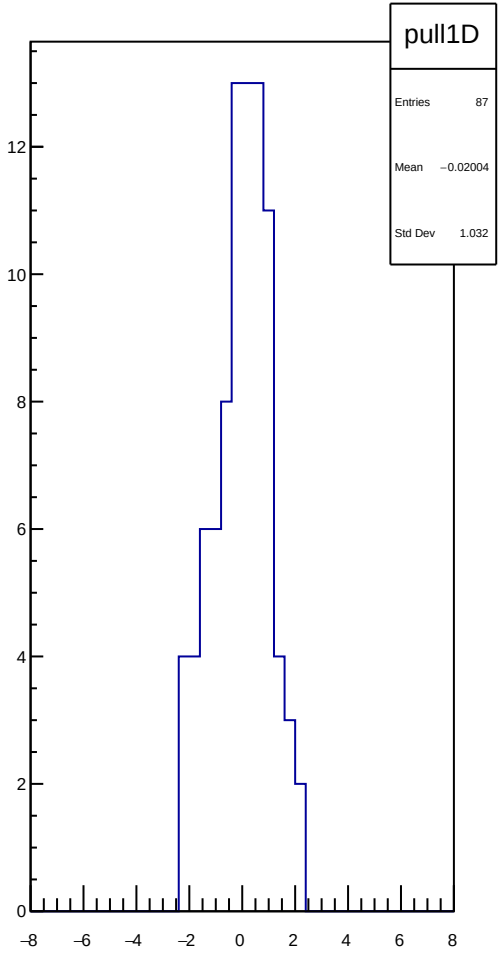

asym_atl_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 9.928e+04 / 86
p0 3575 ± 2.809
5500
5000
4500
4000
3500
3000
2500

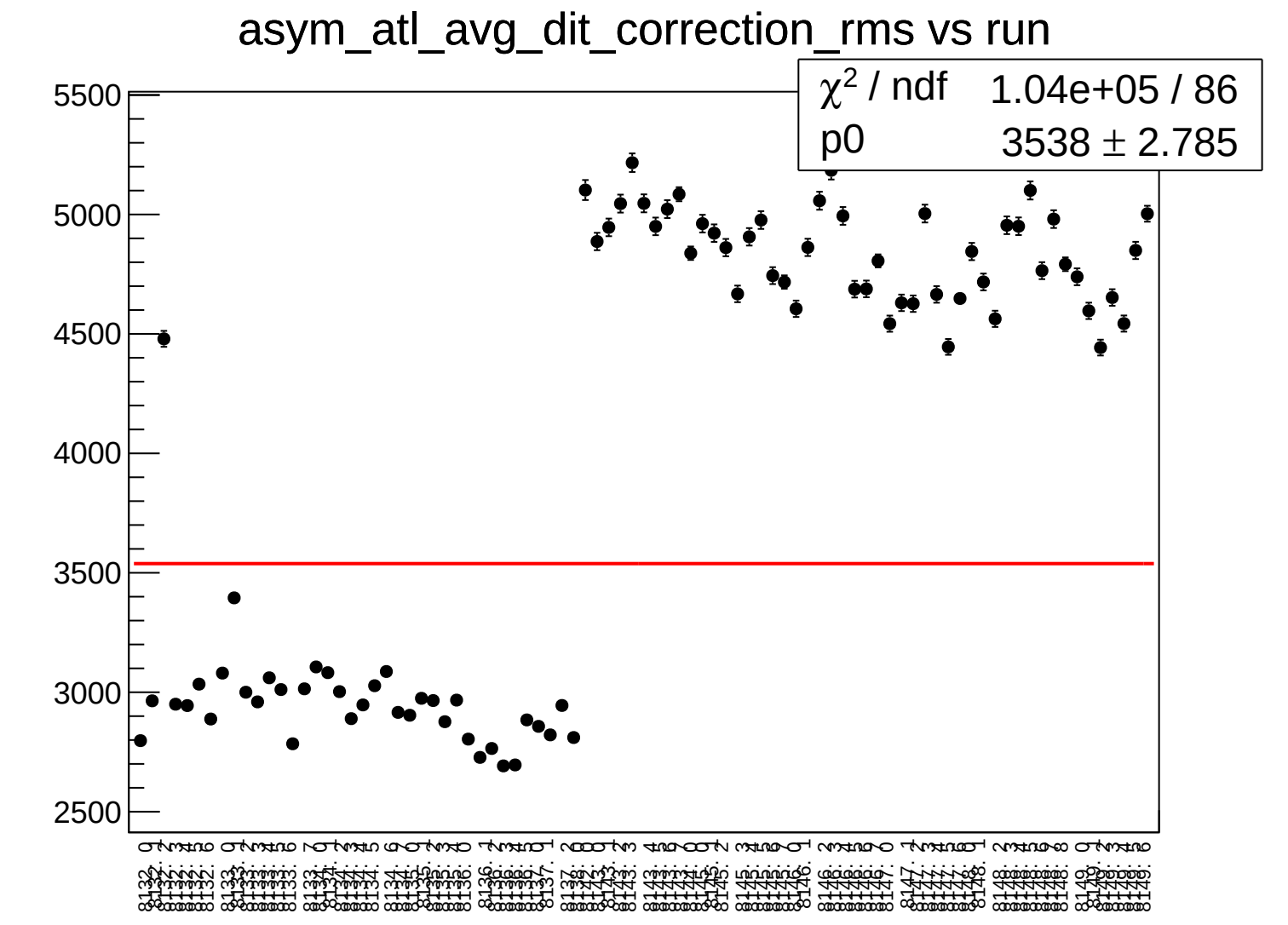

dit_asym_atl_avg_mean vs run
χ² / ndf 94.42 / 86
p0 3515 ± 1778
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 668.8
Std Dev 0
3
2
1
0
−1
−2

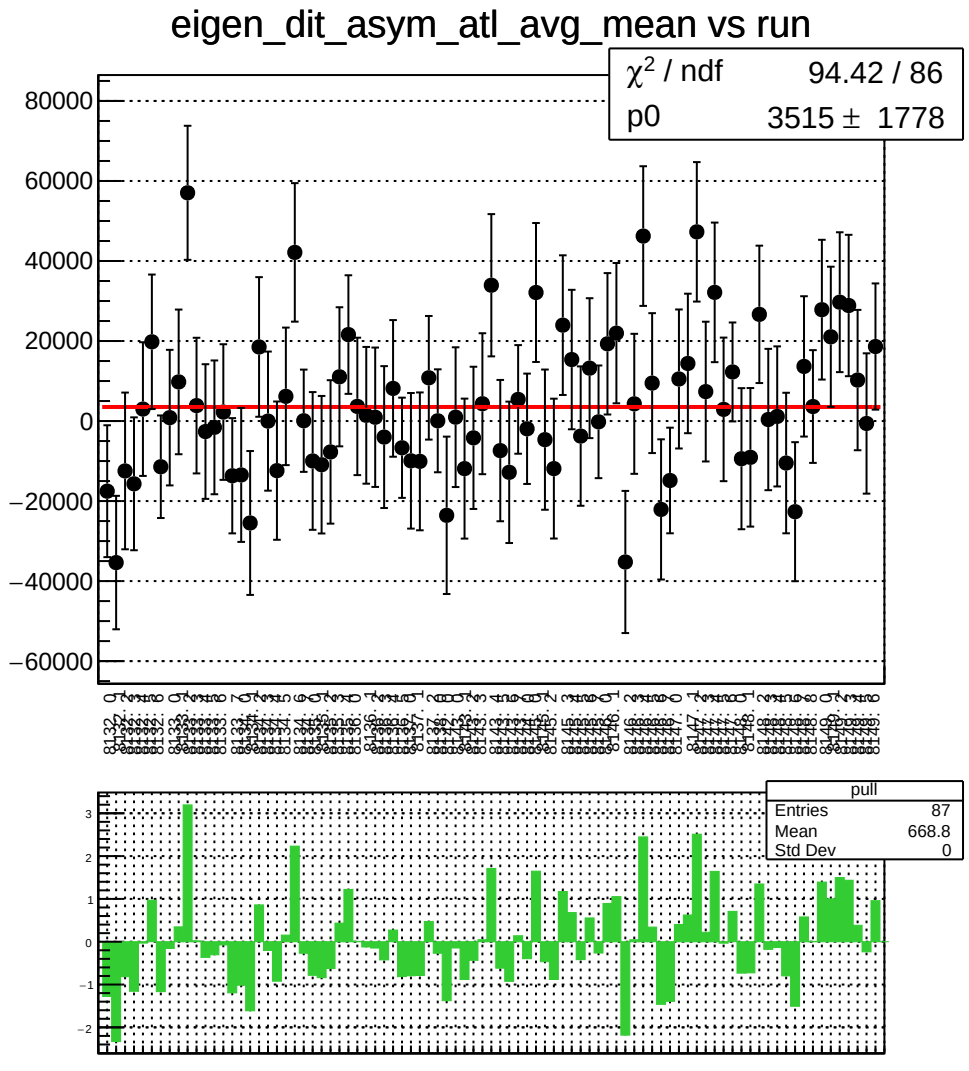

pull1D
Entries 87
Mean 0.01084
Std Dev 1.042
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

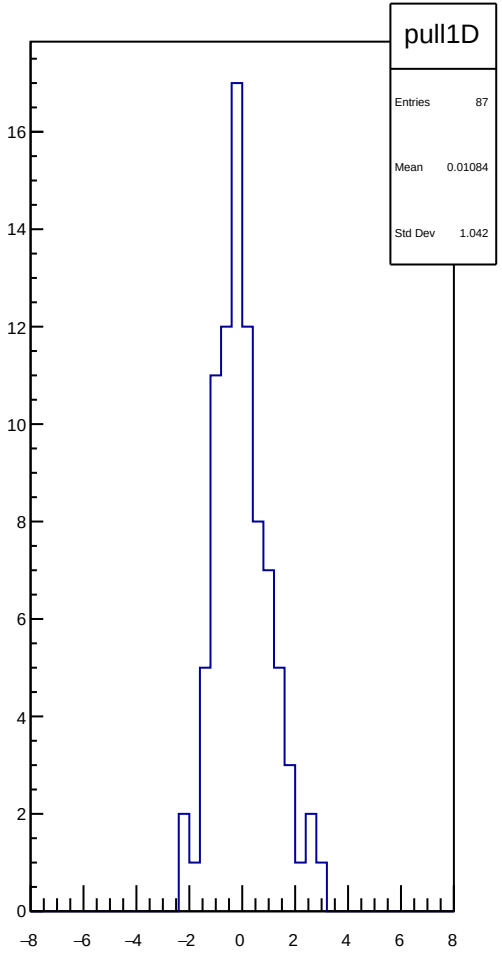

dit_asym_atl_avg_rms vs run
χ² / ndf 841.5 / 86
p0 1648 ± 1.257
1900
1850
1800
1750
1700
1650
1600
1550

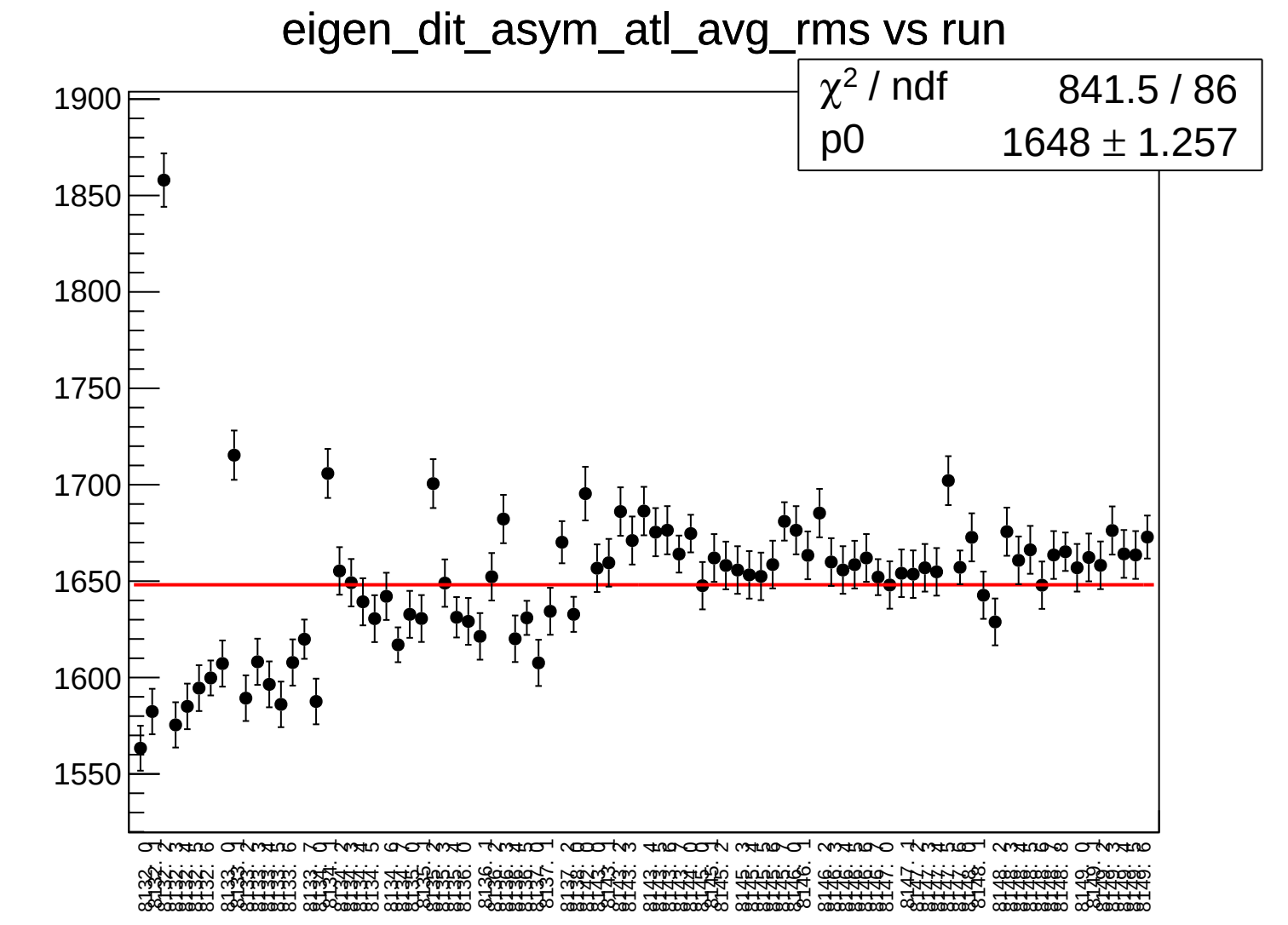

asym_atl_avg_dit_correction_mean vs run
×10^3
χ² / ndf 92.75 / 86
p0 2000 ± 3938
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean 161.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

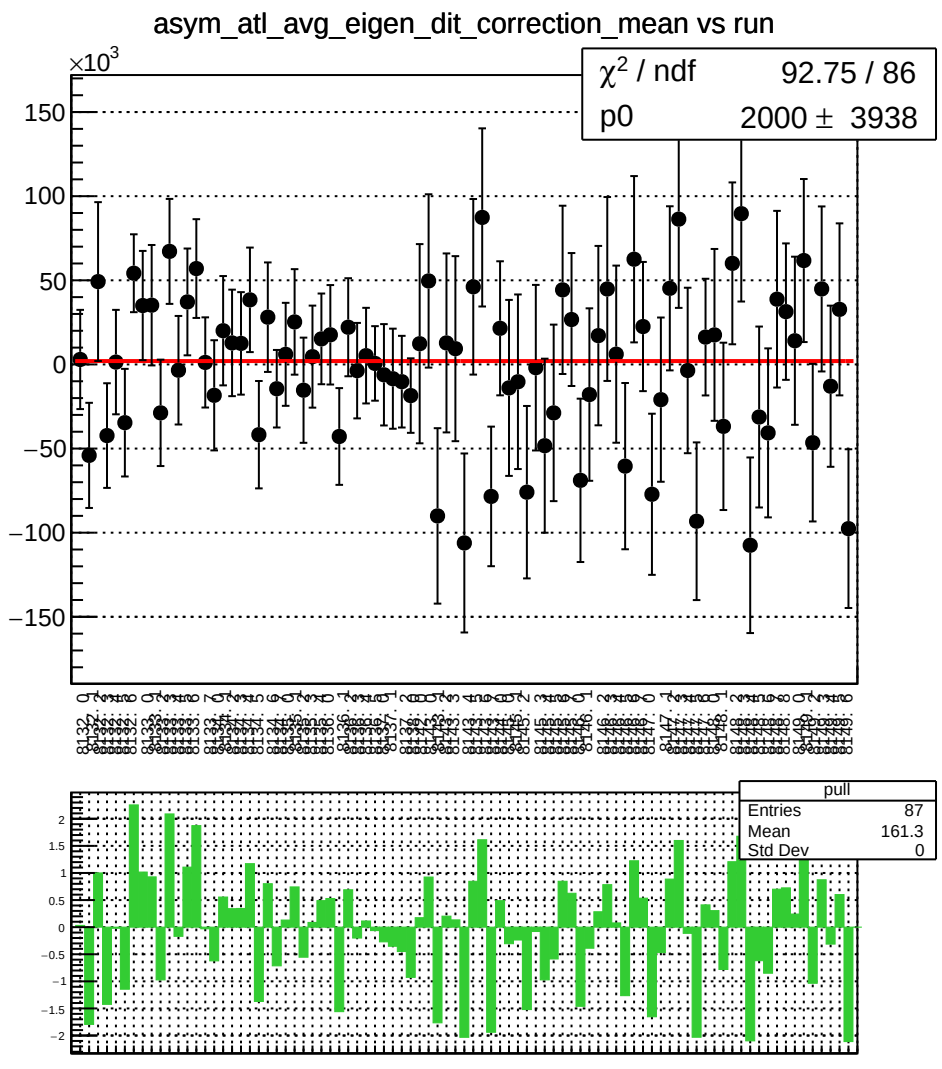

pull1D
Entries 87
Mean −0.02004
Std Dev 1.032
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

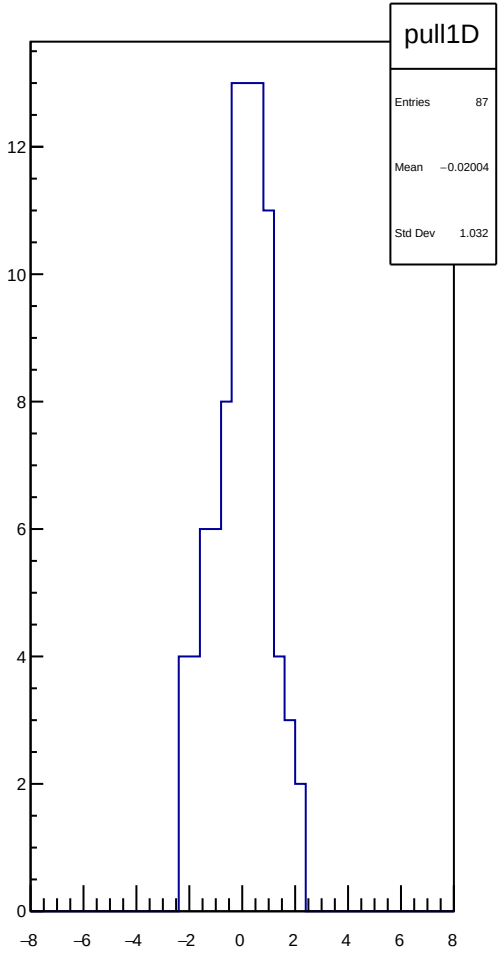

asym_atl_avg_dit_correction_rms vs run
χ^2 / ndf 1.04e+05 / 86
p0 3538 ± 2.785
5500
5000
4500
4000
3500
3000
2500

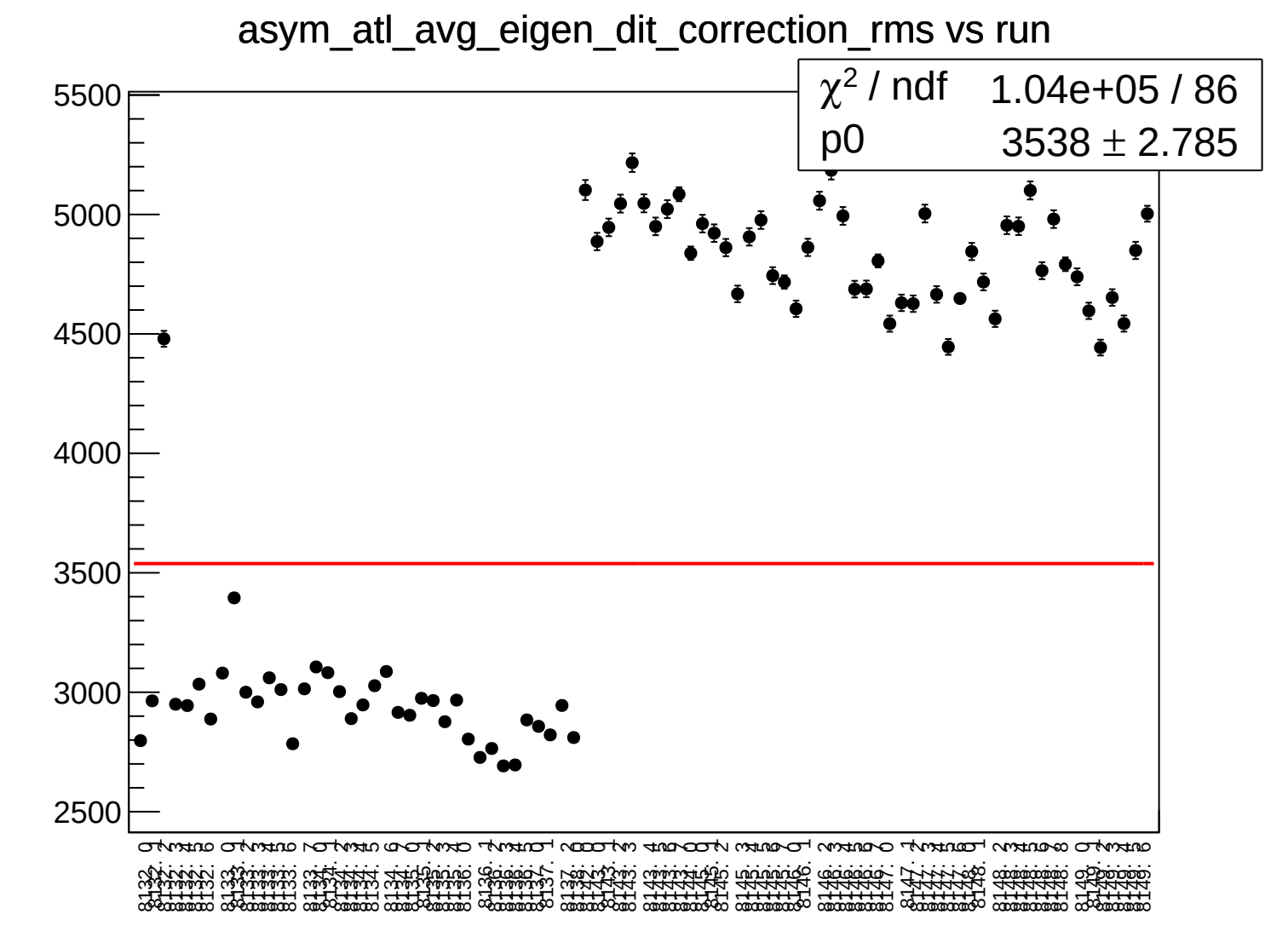

eigen_dit_asym_atl_avg_mean vs run
χ² / ndf 94.42 / 86
p0 3515 ± 1778
pull
Entries 87
Mean 668.8
Std Dev 0

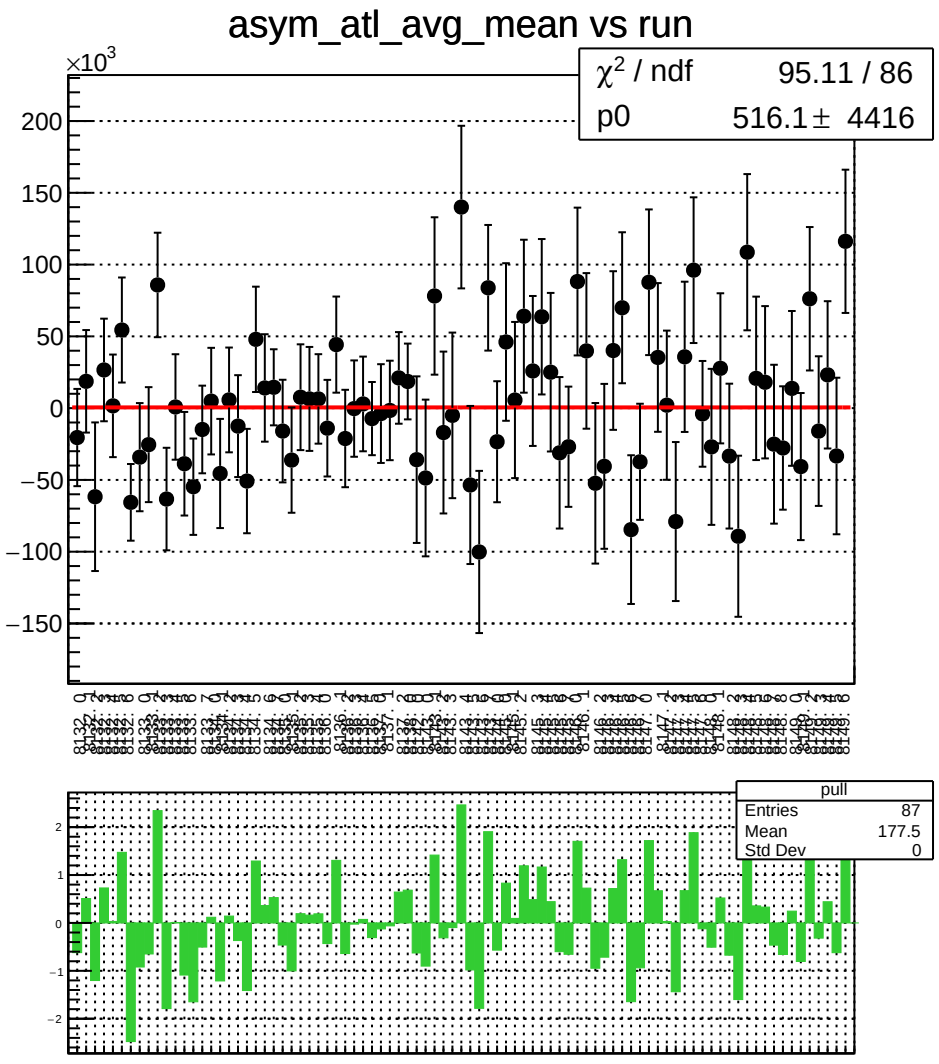

pull1D
Entries 87
Mean 0.01084
Std Dev 1.042

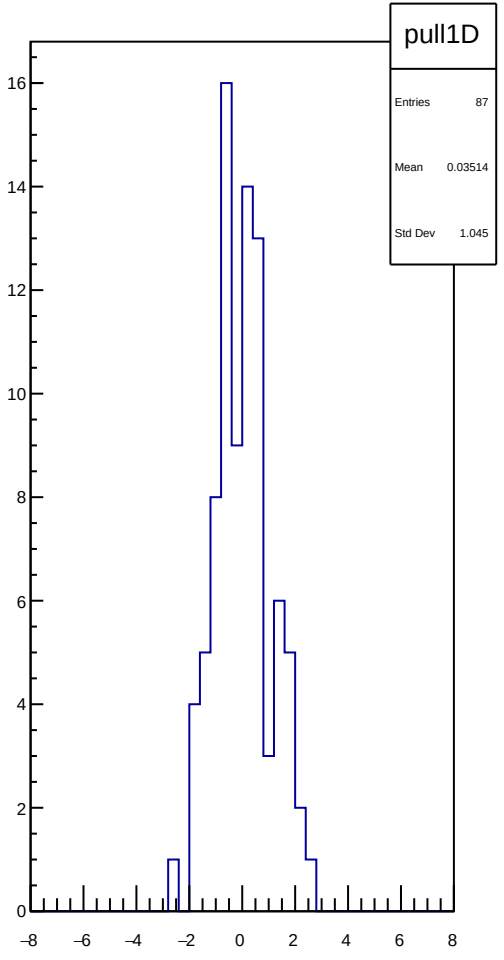

eigen_dit_asym_atl_avg_rms vs run
χ^2 / ndf 841.5 / 86
p0 1648 ± 1.257
1900
1850
1800
1750
1700
1650
1600
1550

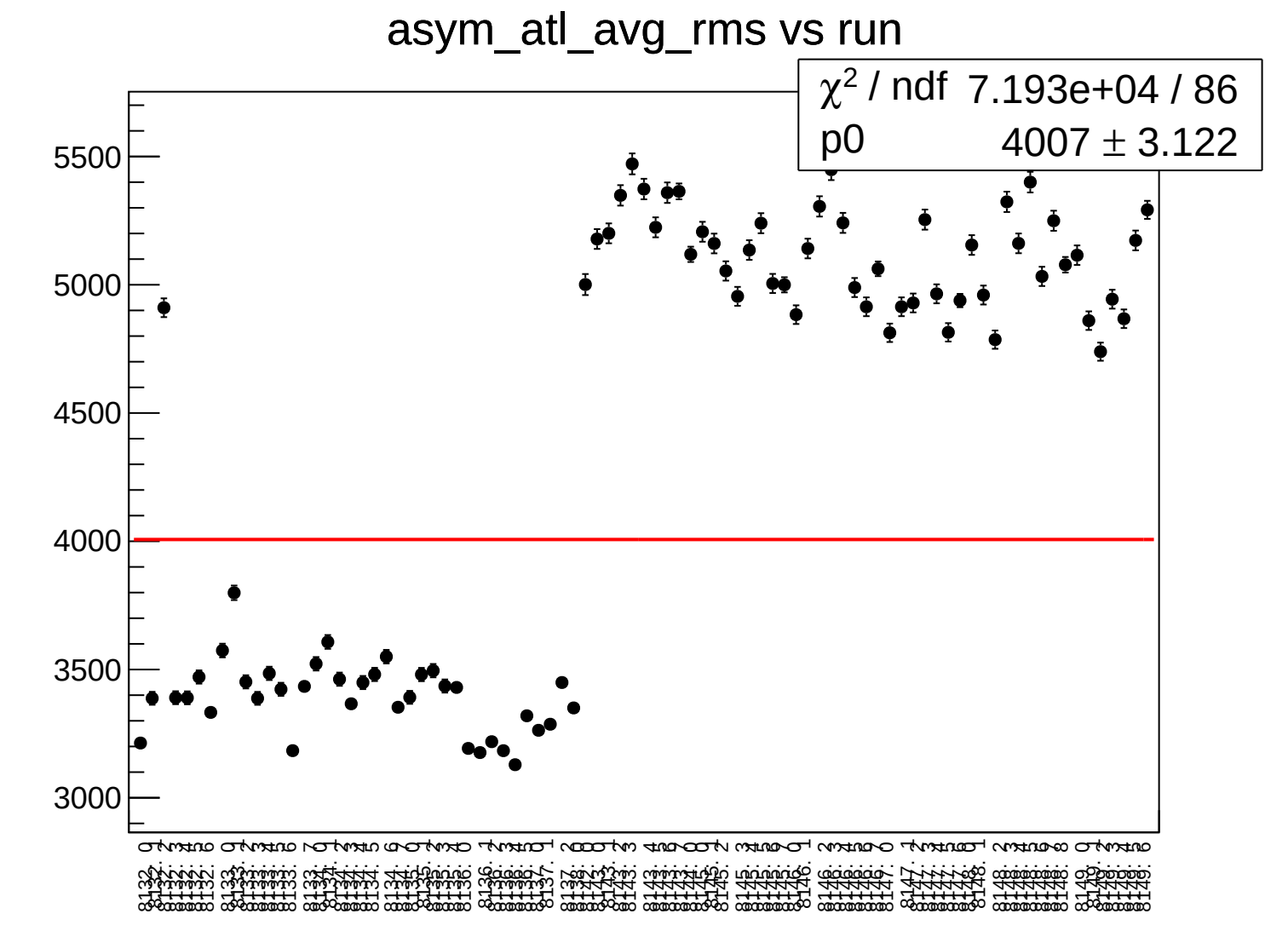

asym_atl_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 92.75 / 86
p0 2000 ± 3938
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean 161.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

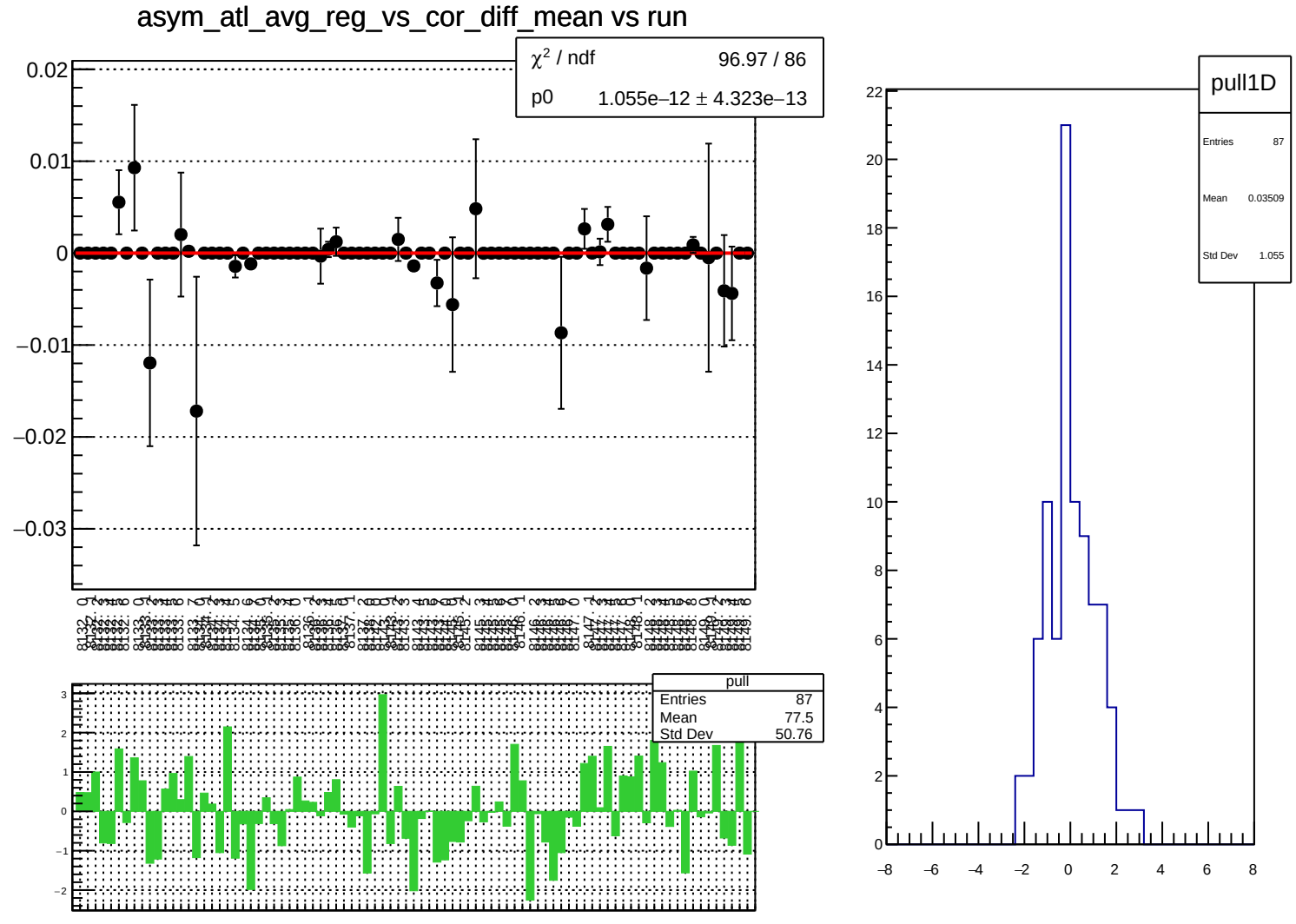

pull1D
Entries 87
Mean −0.02004
Std Dev 1.032
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

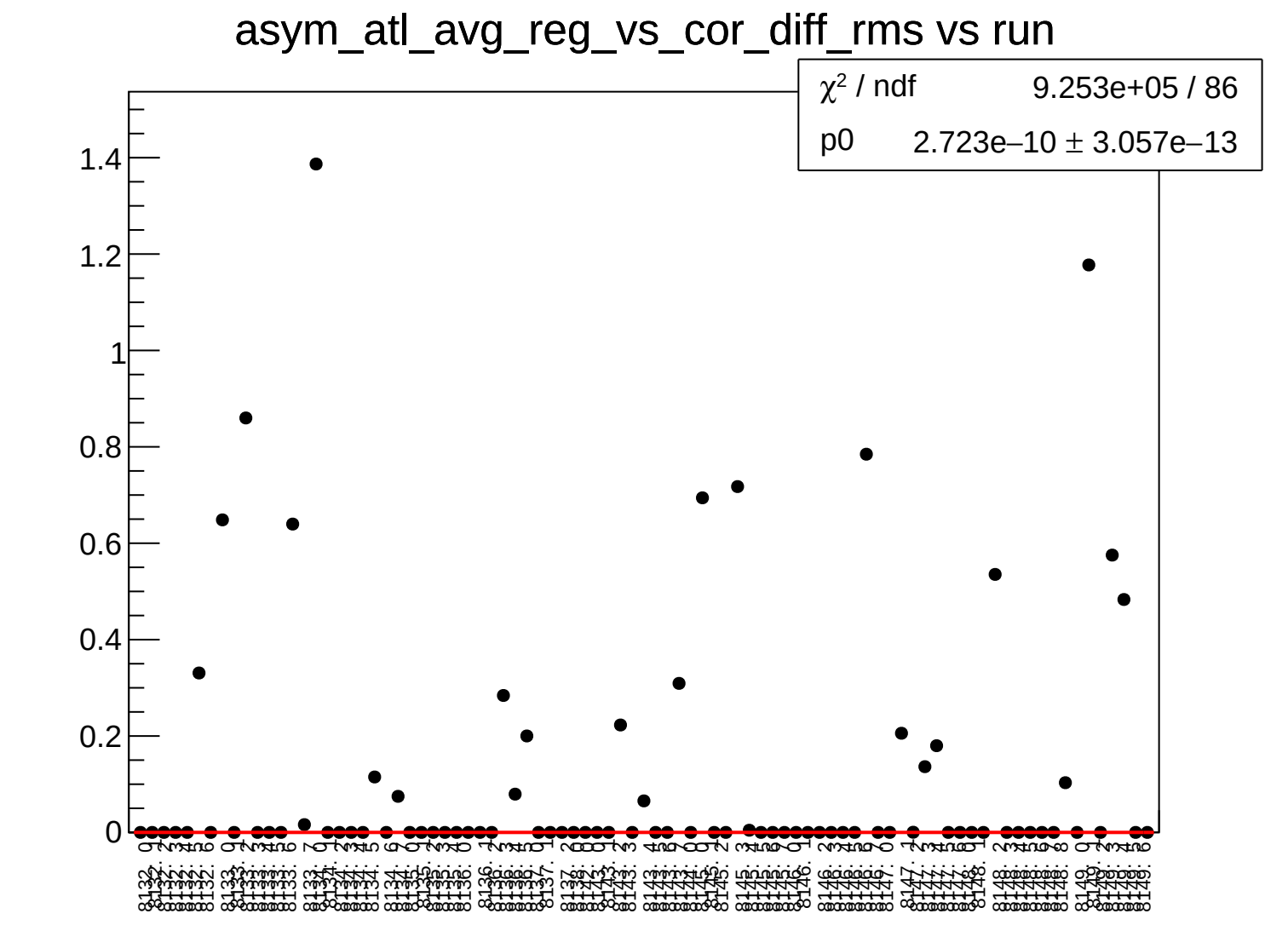

asym_atl_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.04e+05 / 86
p0 3538 ± 2.785
5500
5000
4500
4000
3500
3000
2500

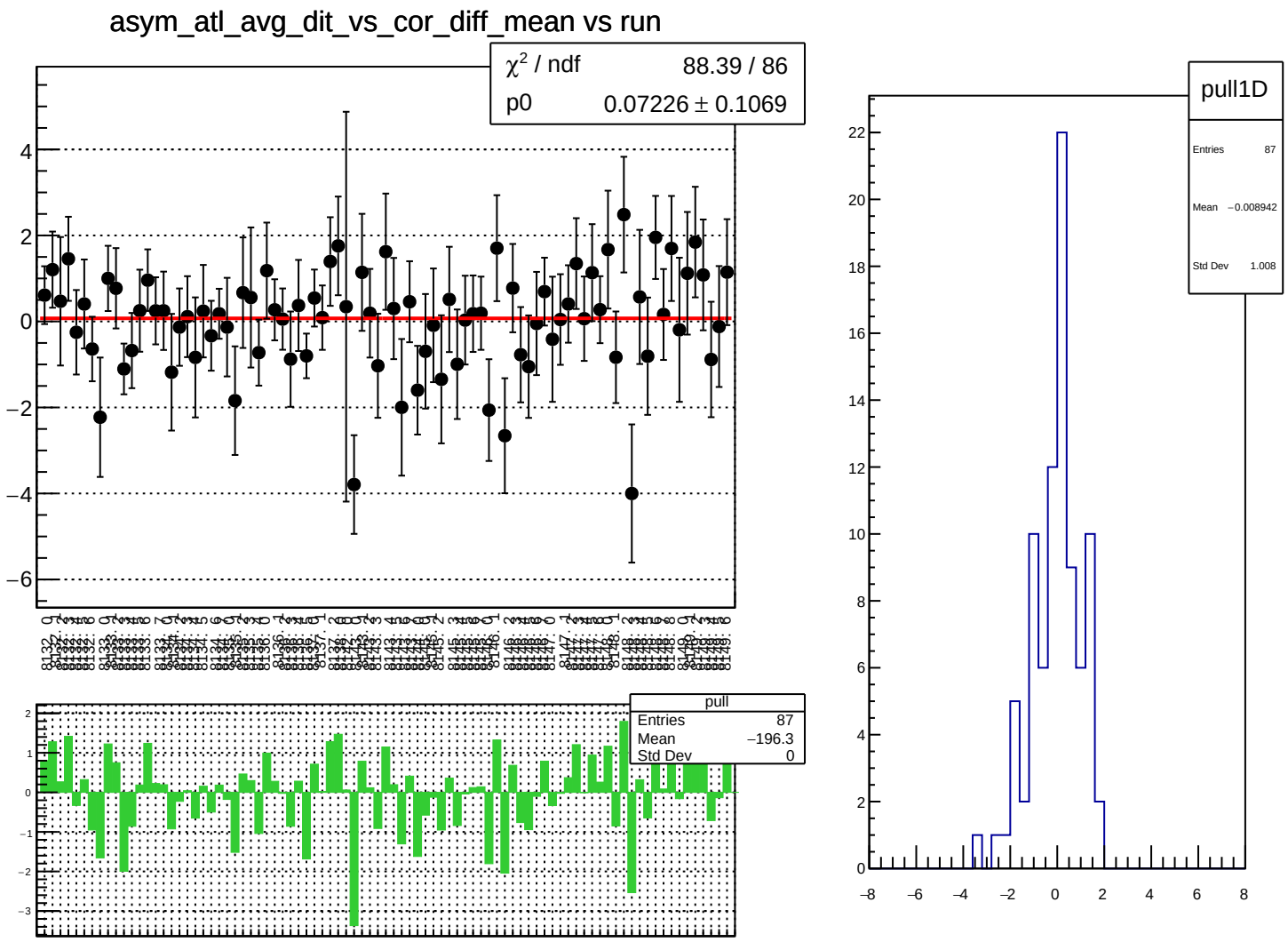

asym_atl_avg_mean vs run
×10^3
χ^2 / ndf 95.11 / 86
p0 516.1 ± 4416
pull
Entries 87
Mean 177.5
Std Dev 0

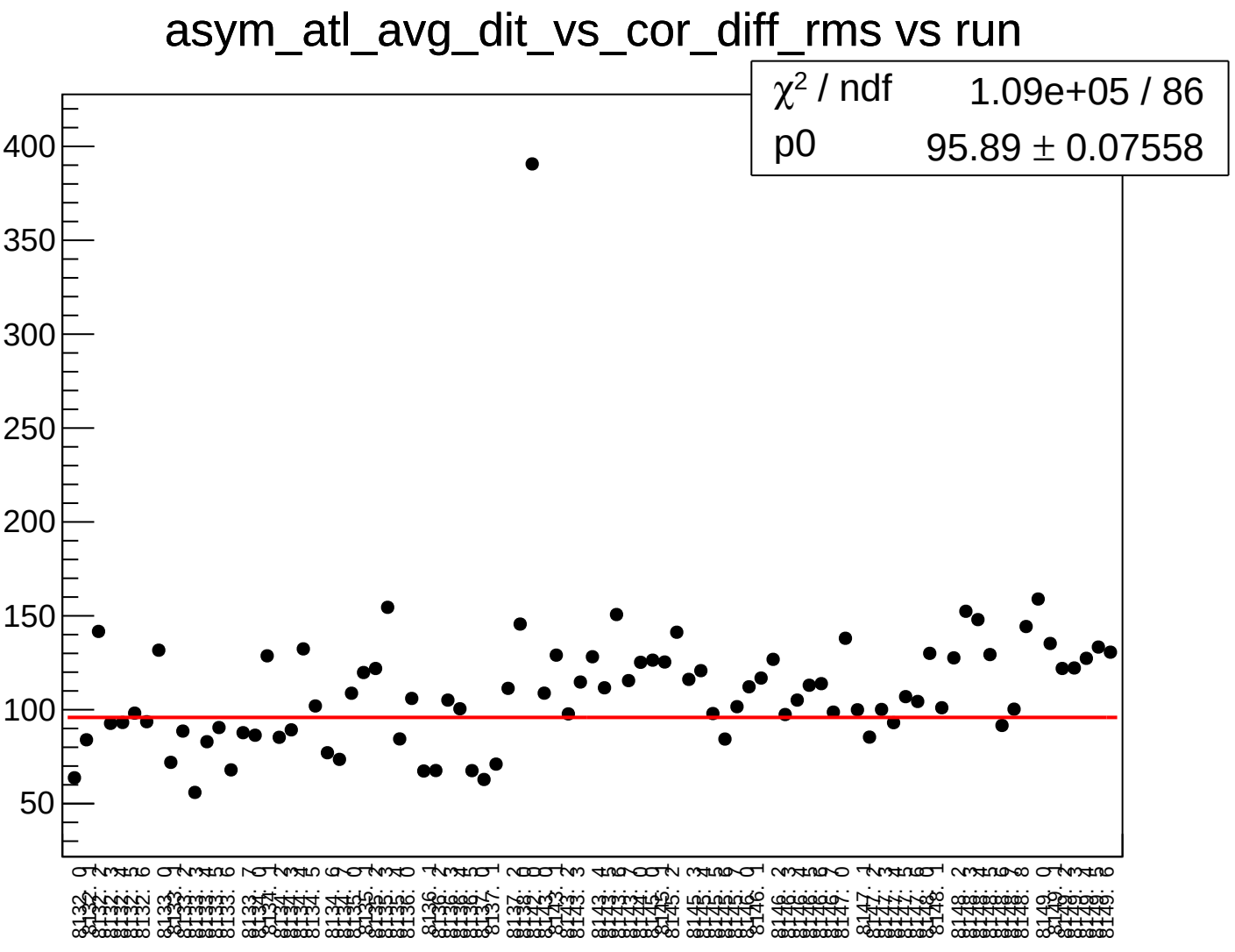

pull1D
Entries 87
Mean 0.03514
Std Dev 1.045

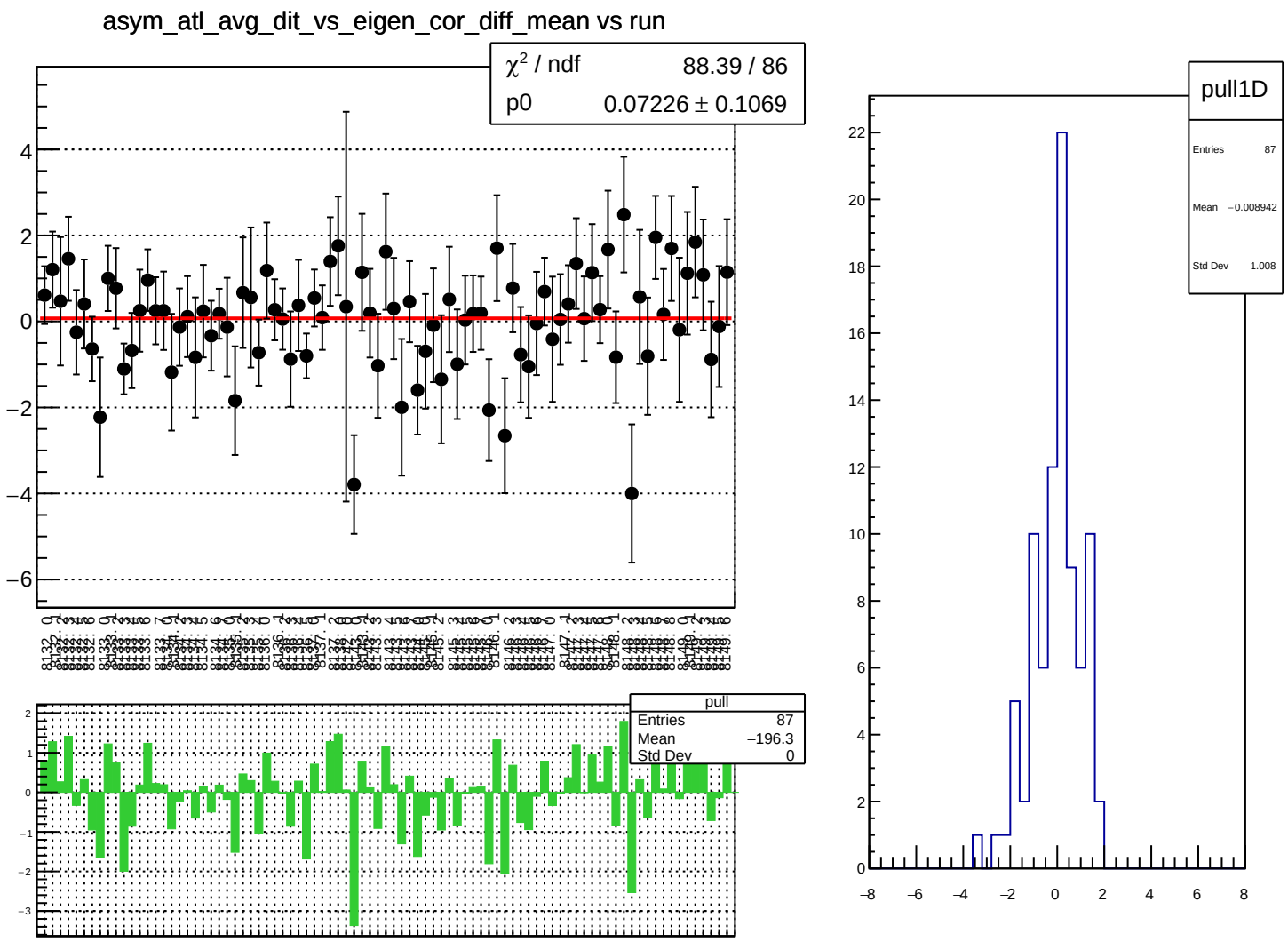

asym_atl_avg_rms vs run
χ² / ndf 7.193e+04 / 86
p0 4007 ± 3.122
5500
5000
4500
4000
3500
3000

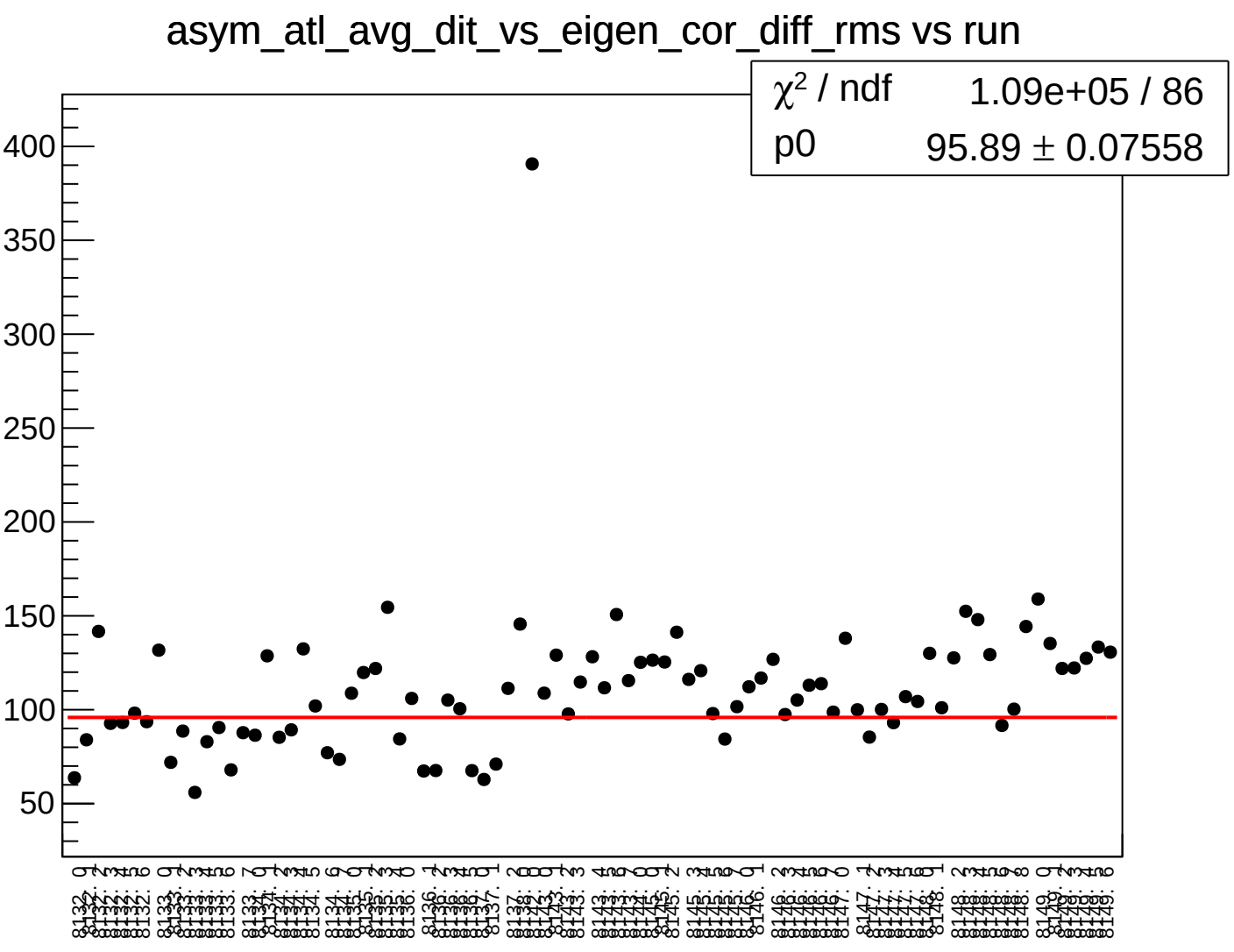

asym_atl_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 96.97 / 86
p0 1.055e−12 ± 4.323e−13
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 87
Mean 77.5
Std Dev 50.76
pull1D
Entries 87
Mean 0.03509
Std Dev 1.055
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

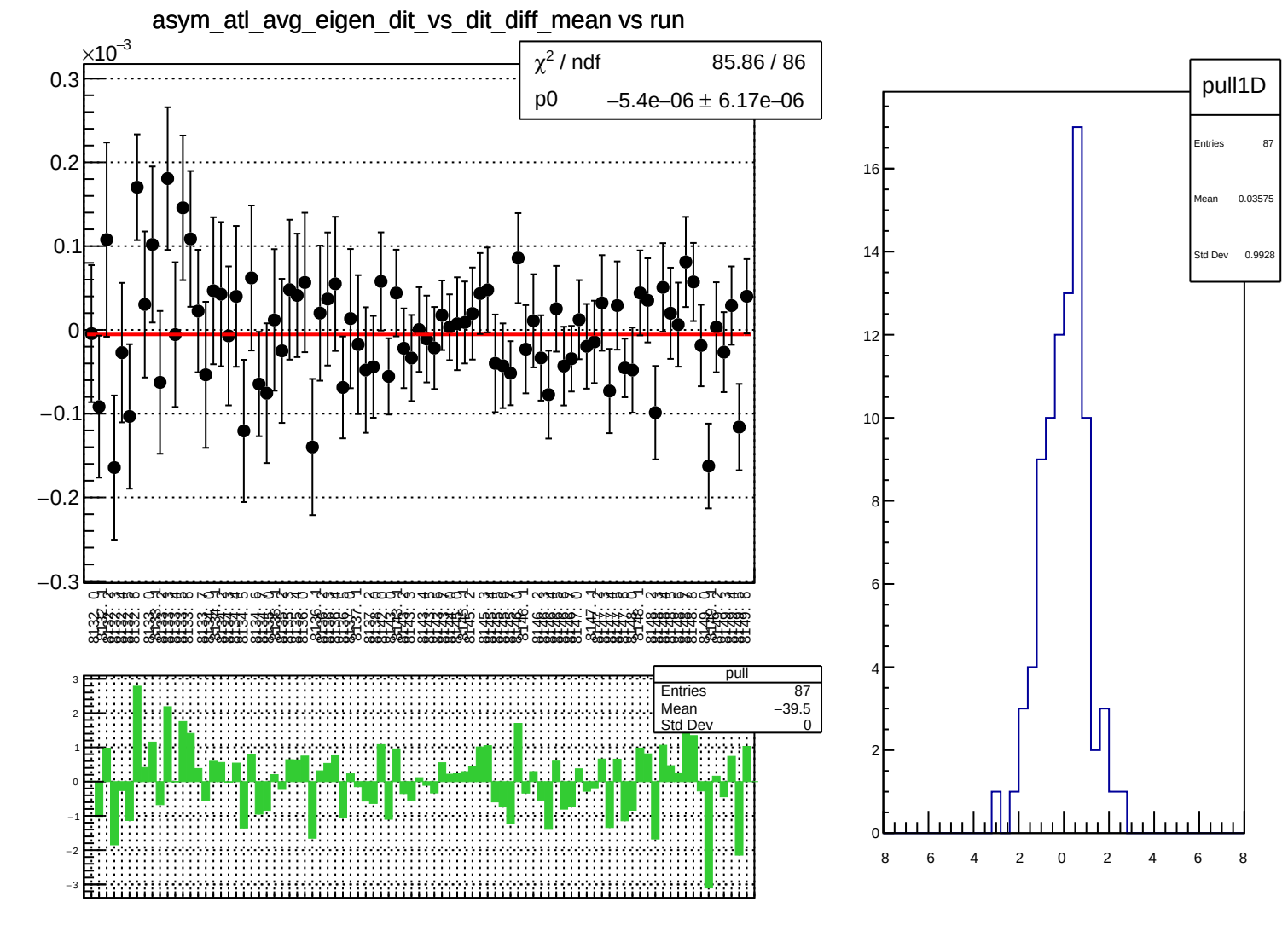

asym_atl_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.253e+05 / 86
p0 2.723e−10 ± 3.057e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

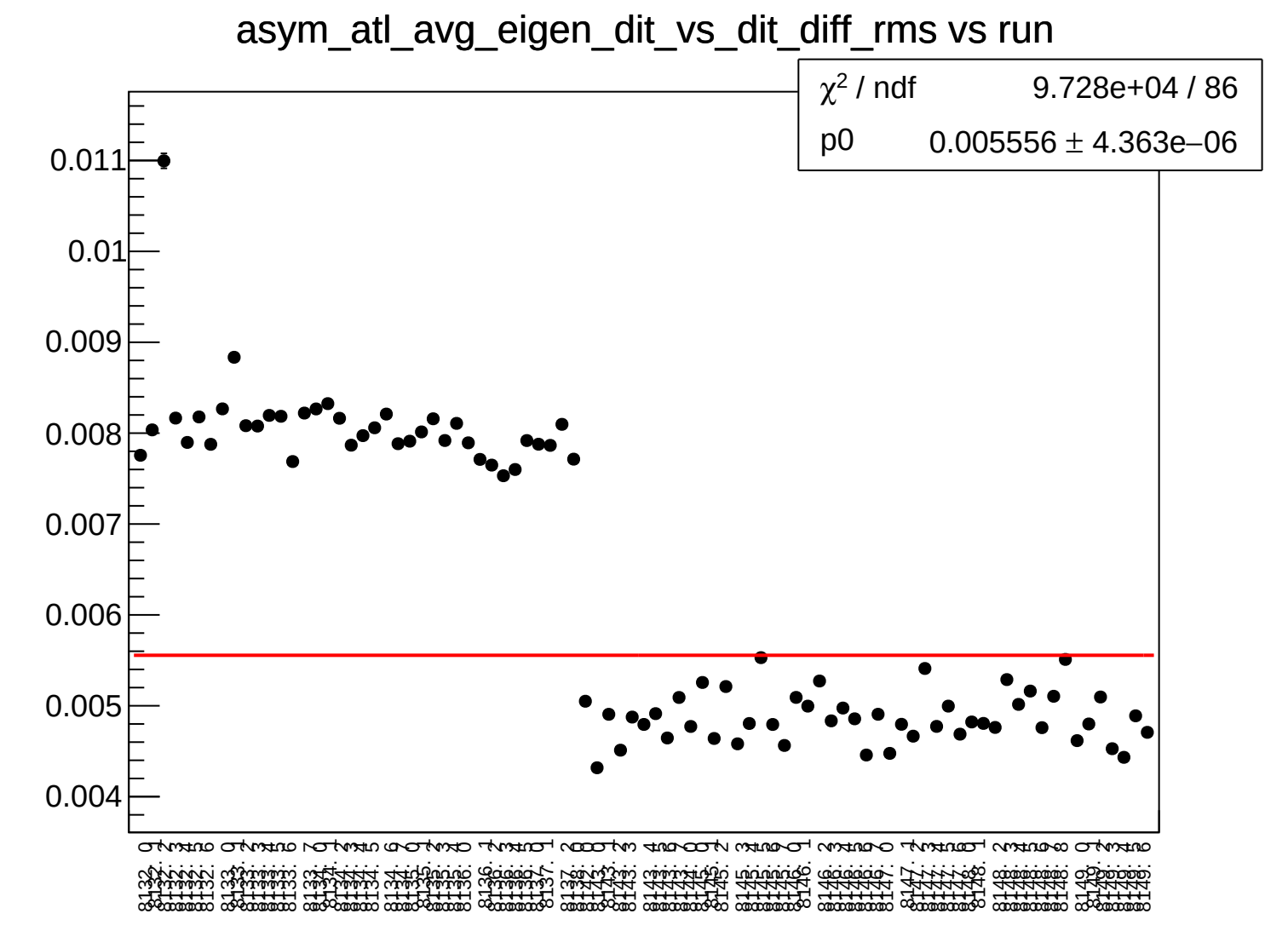

asym_atl_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 88.39 / 86
p0 0.07226 ± 0.1069
pull
Entries 87
Mean −196.3
Std Dev 0
pull1D
Entries 87
Mean −0.008942
Std Dev 1.008

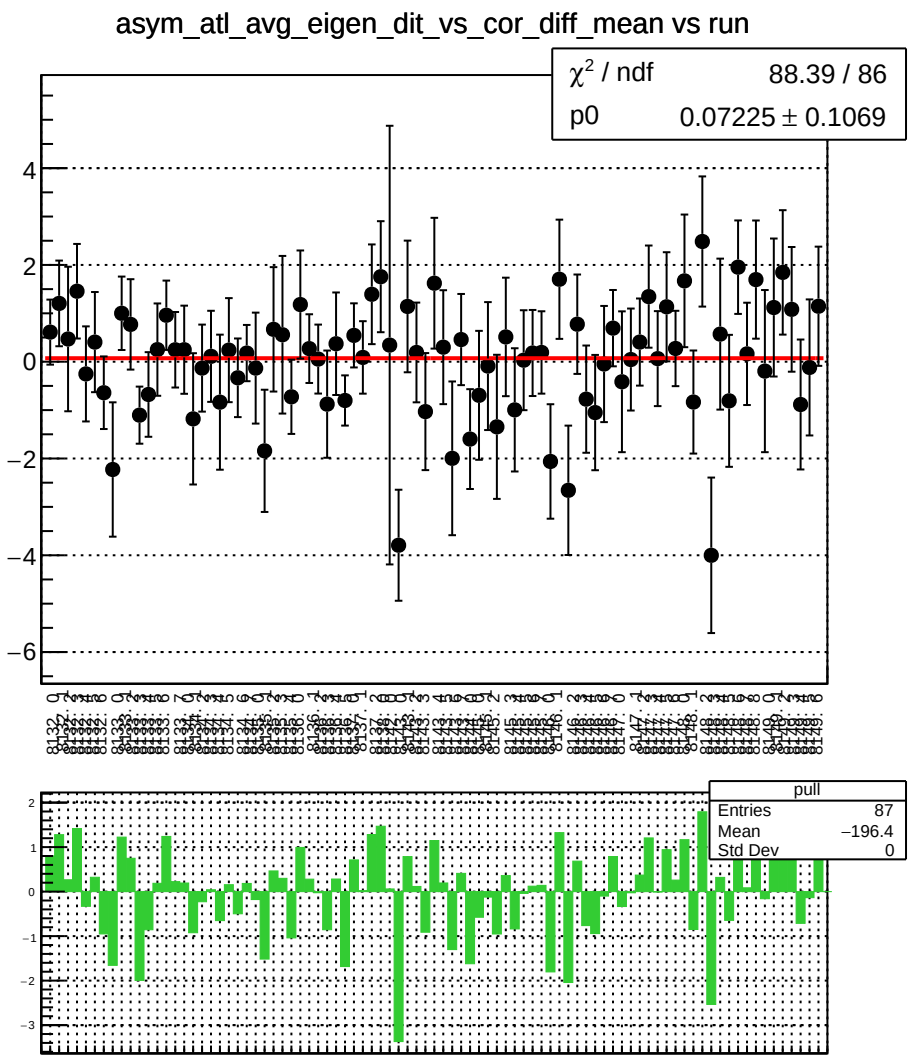

asym_atl_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.09e+05 / 86
p0 95.89 ± 0.07558
400
350
300
250
200
150
100
50

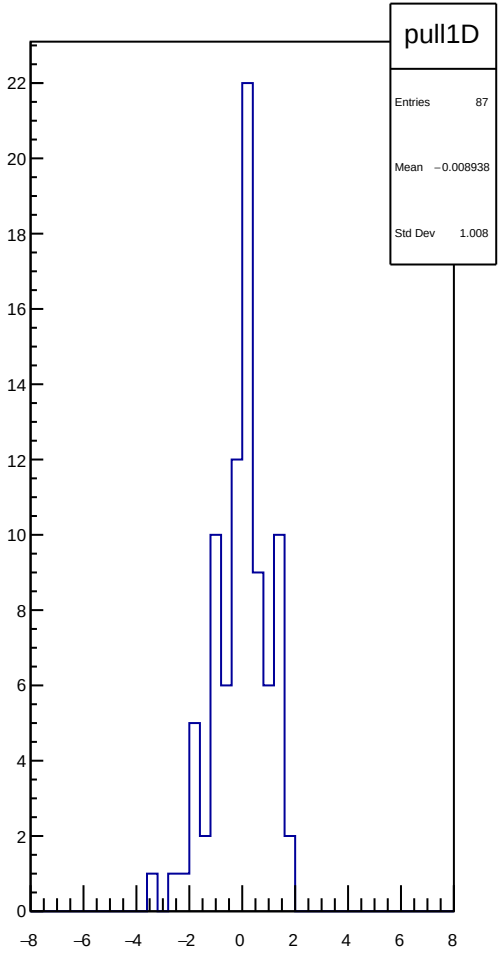

asym_atl_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.39 / 86
p0 0.07226 ± 0.1069
pull
Entries 87
Mean −196.3
Std Dev 0
pull1D
Entries 87
Mean −0.008942
Std Dev 1.008

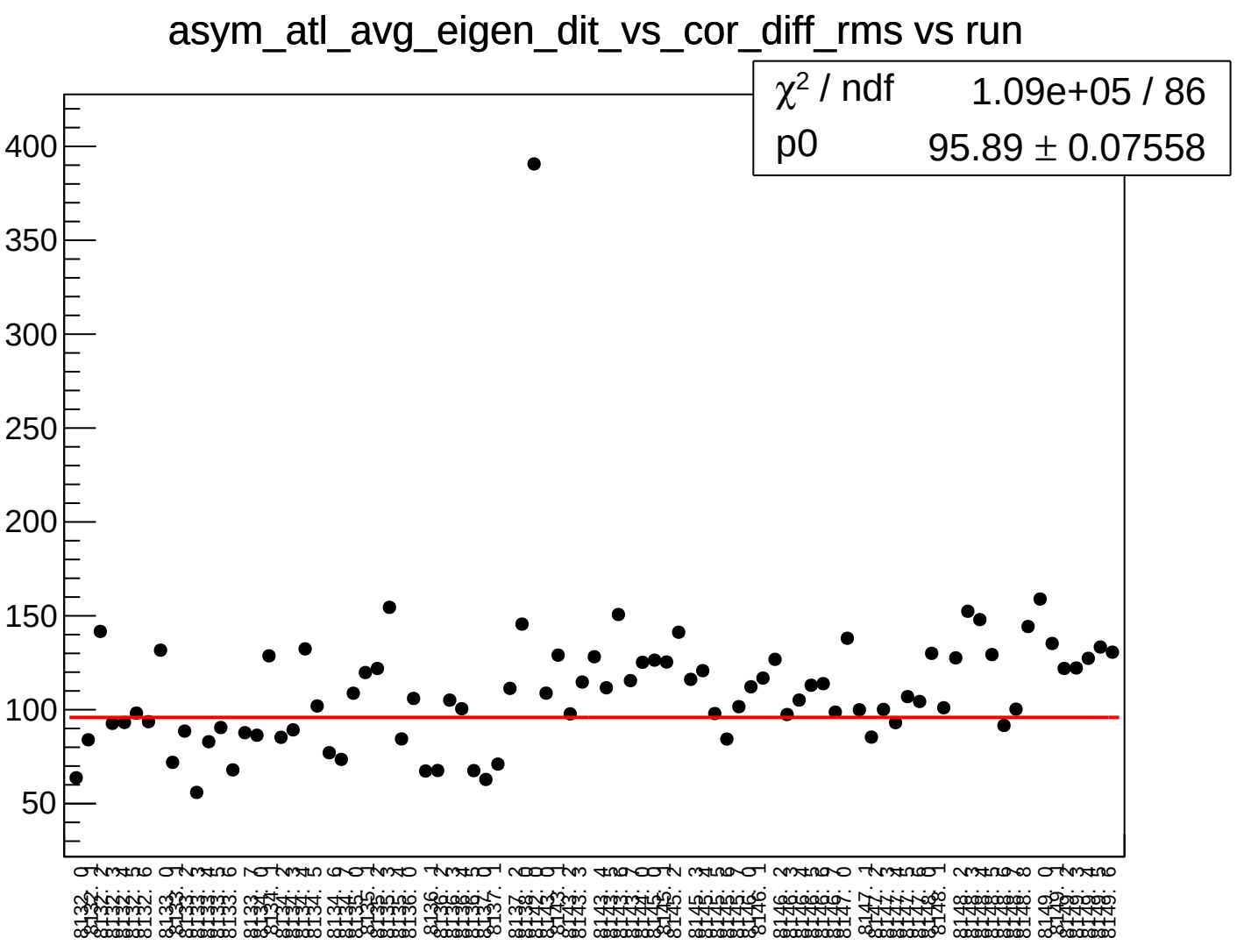

asym_atl_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.09e+05 / 86
p0 95.89 ± 0.07558
400
350
300
250
200
150
100
50

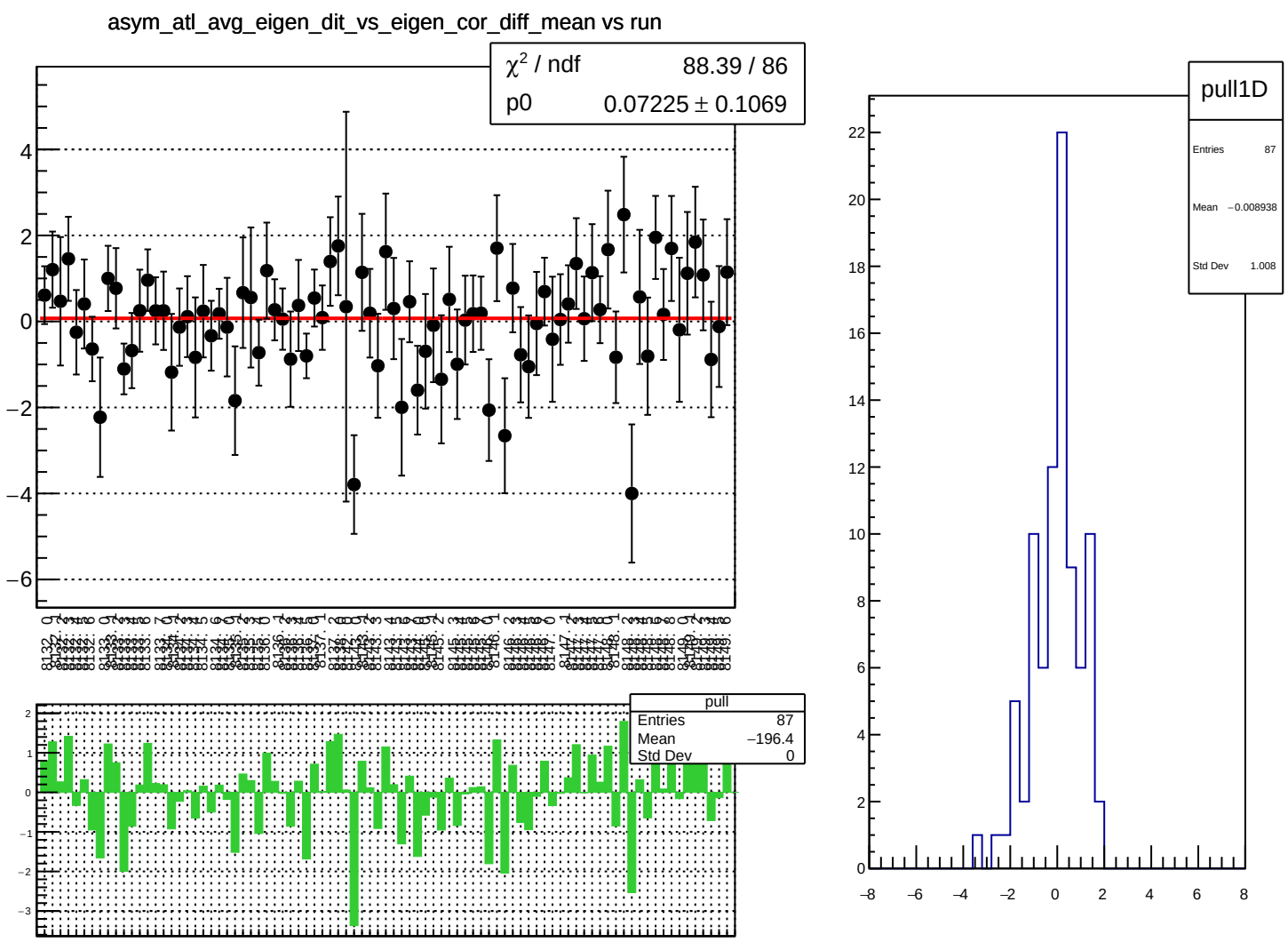

asym_atl_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.86 / 86
p0 –5.4e–06 ± 6.17e–06
pull
Entries 87
Mean –39.5
Std Dev 0
pull1D
Entries 87
Mean 0.03575
Std Dev 0.9928

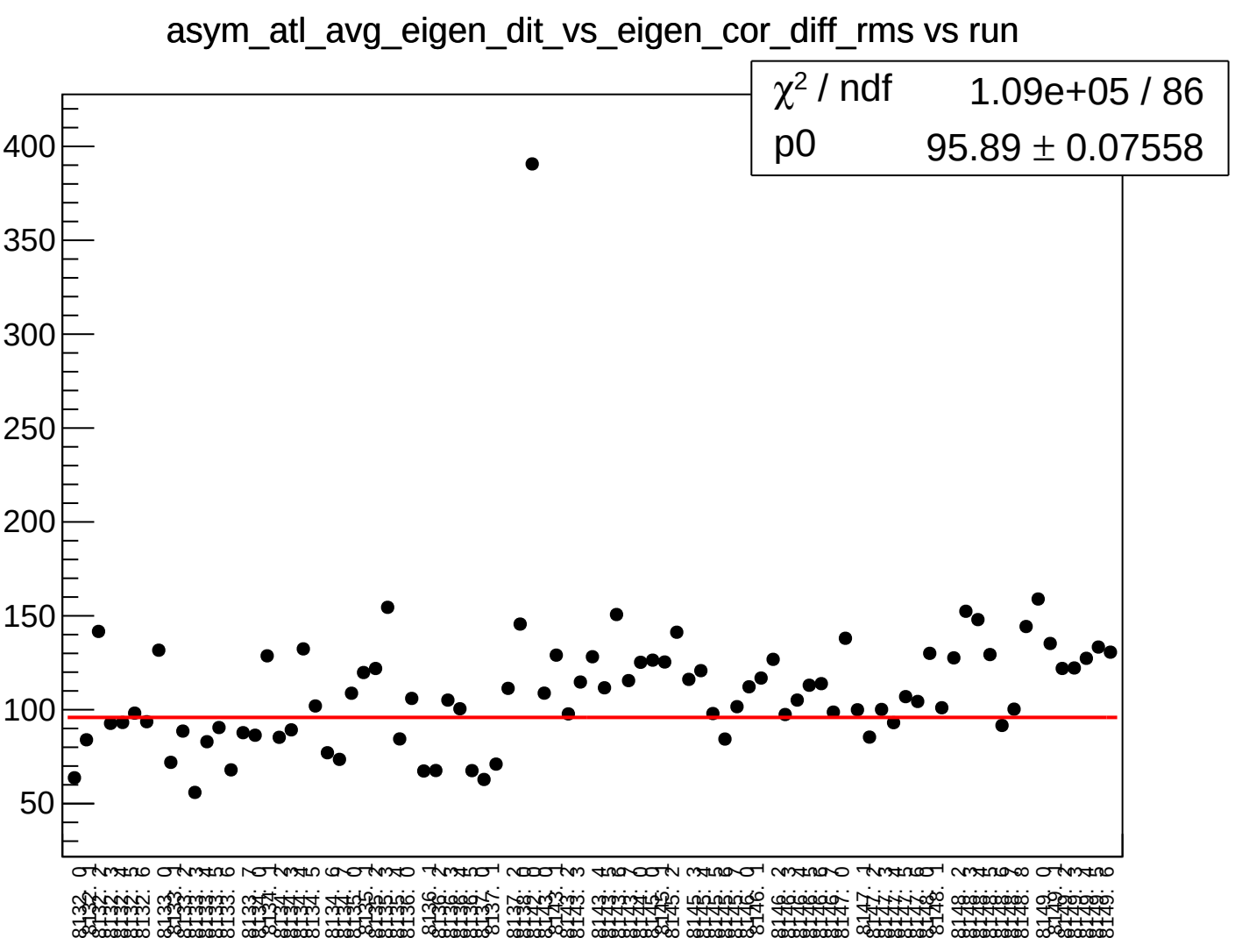

asym_atl_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.728e+04 / 86
p0 0.005556 ± 4.363e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004

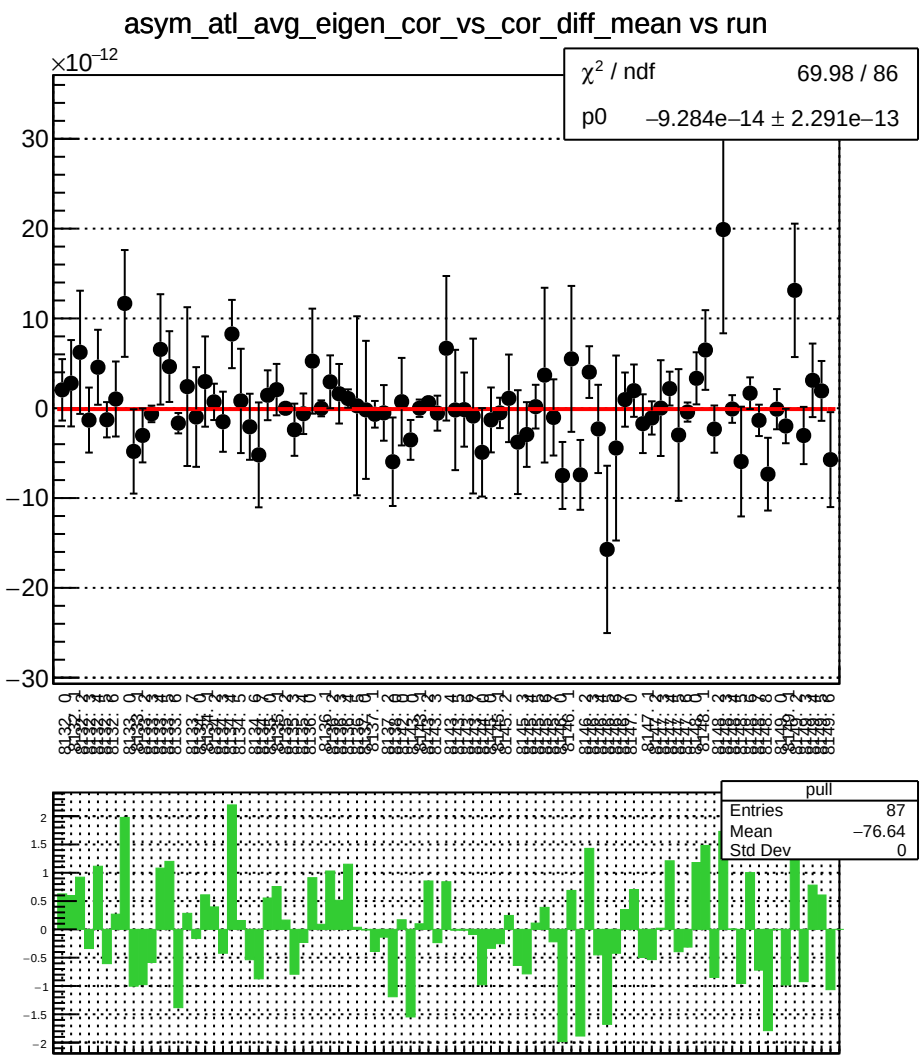

asym_atl_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.39 / 86
p0 0.07225 ± 0.1069
pull
Entries 87
Mean −196.4
Std Dev 0

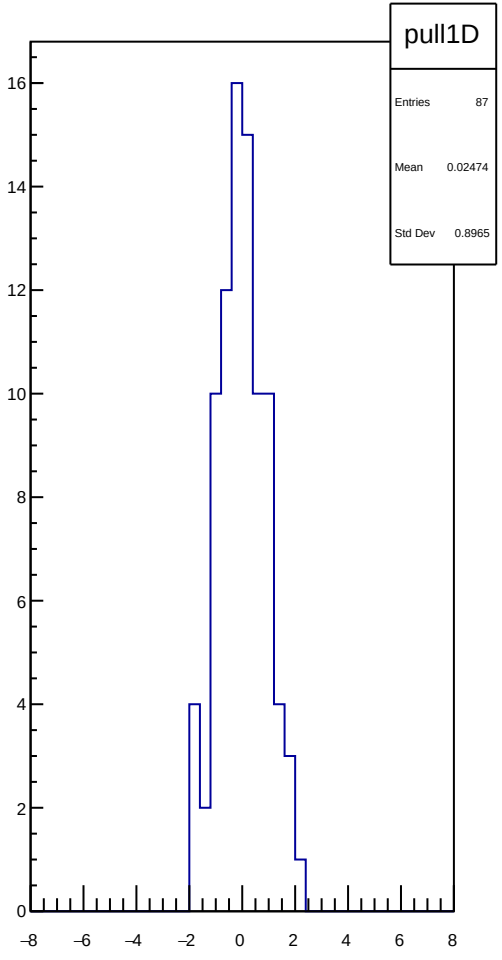

pull1D
Entries 87
Mean −0.008938
Std Dev 1.008

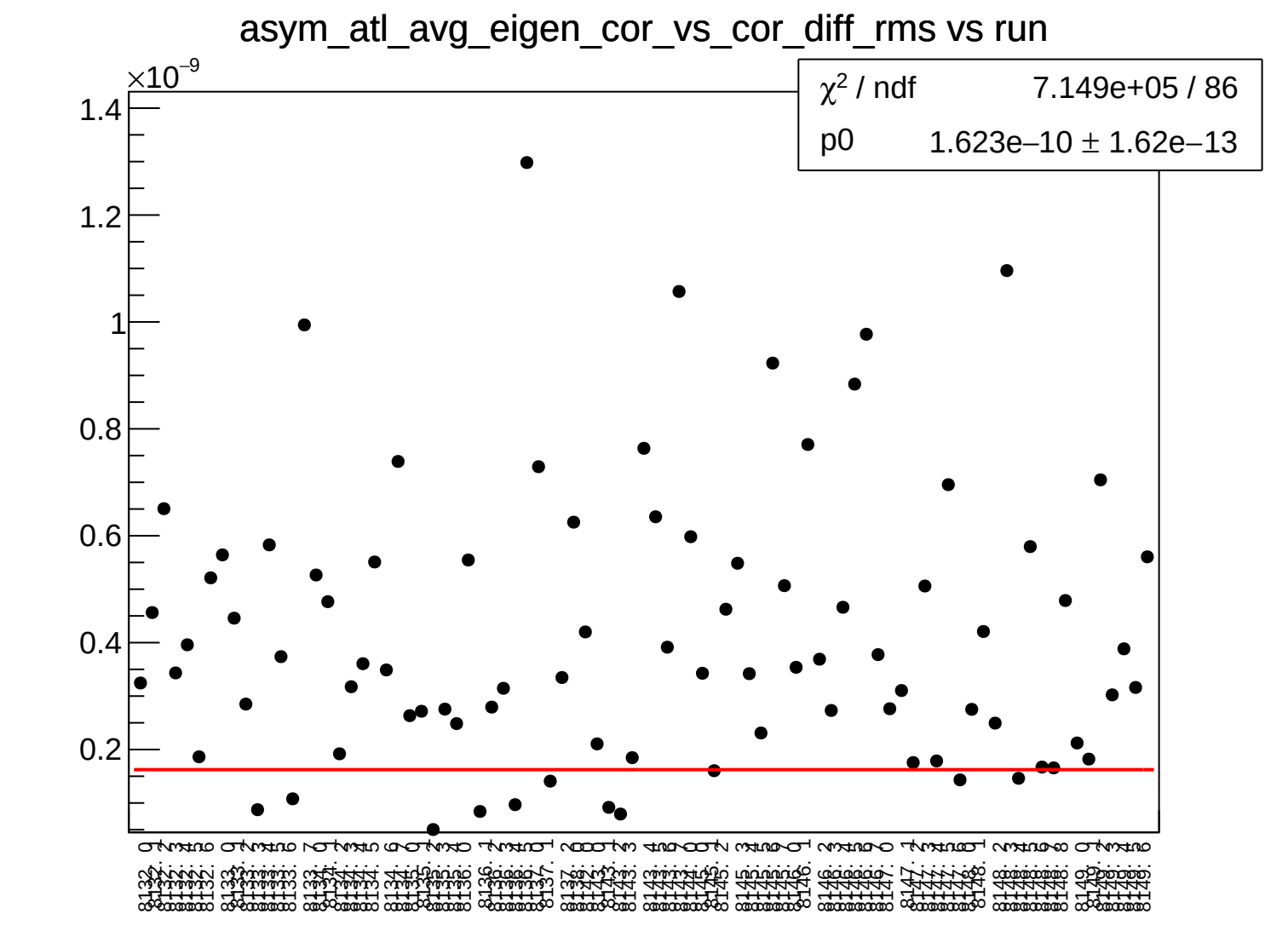

asym_atl_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.09e+05 / 86
p0 95.89 ± 0.07558
400
350
300
250
200
150
100
50

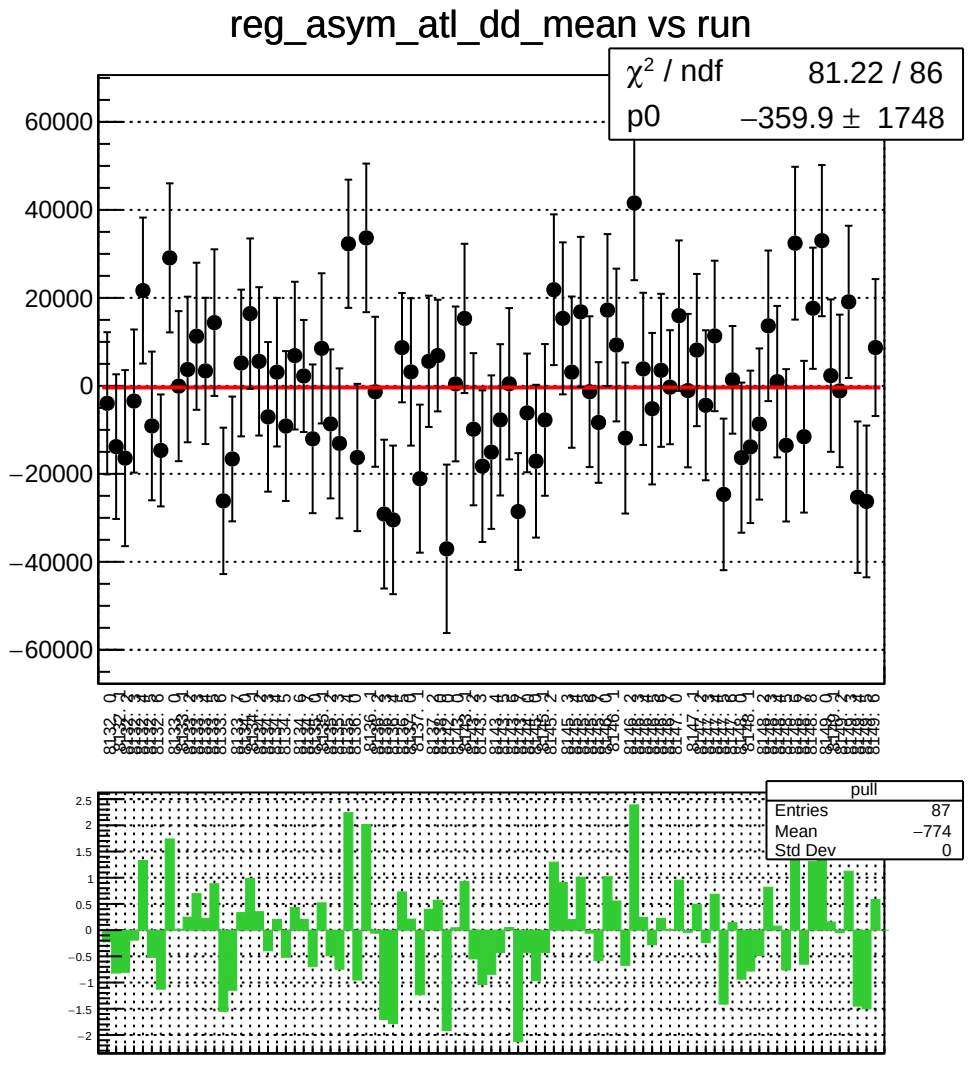

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.39 / 86
p0 0.07225 ± 0.1069
pull
Entries 87
Mean −196.4
Std Dev 0
pull1D
Entries 87
Mean −0.008938
Std Dev 1.008

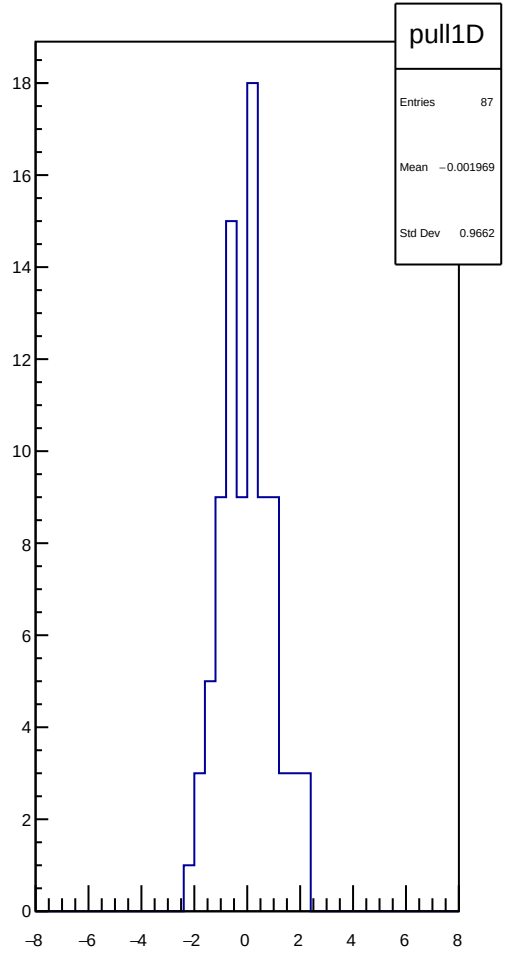

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.09e+05 / 86
p0 95.89 ± 0.07558
400
350
300
250
200
150
100
50

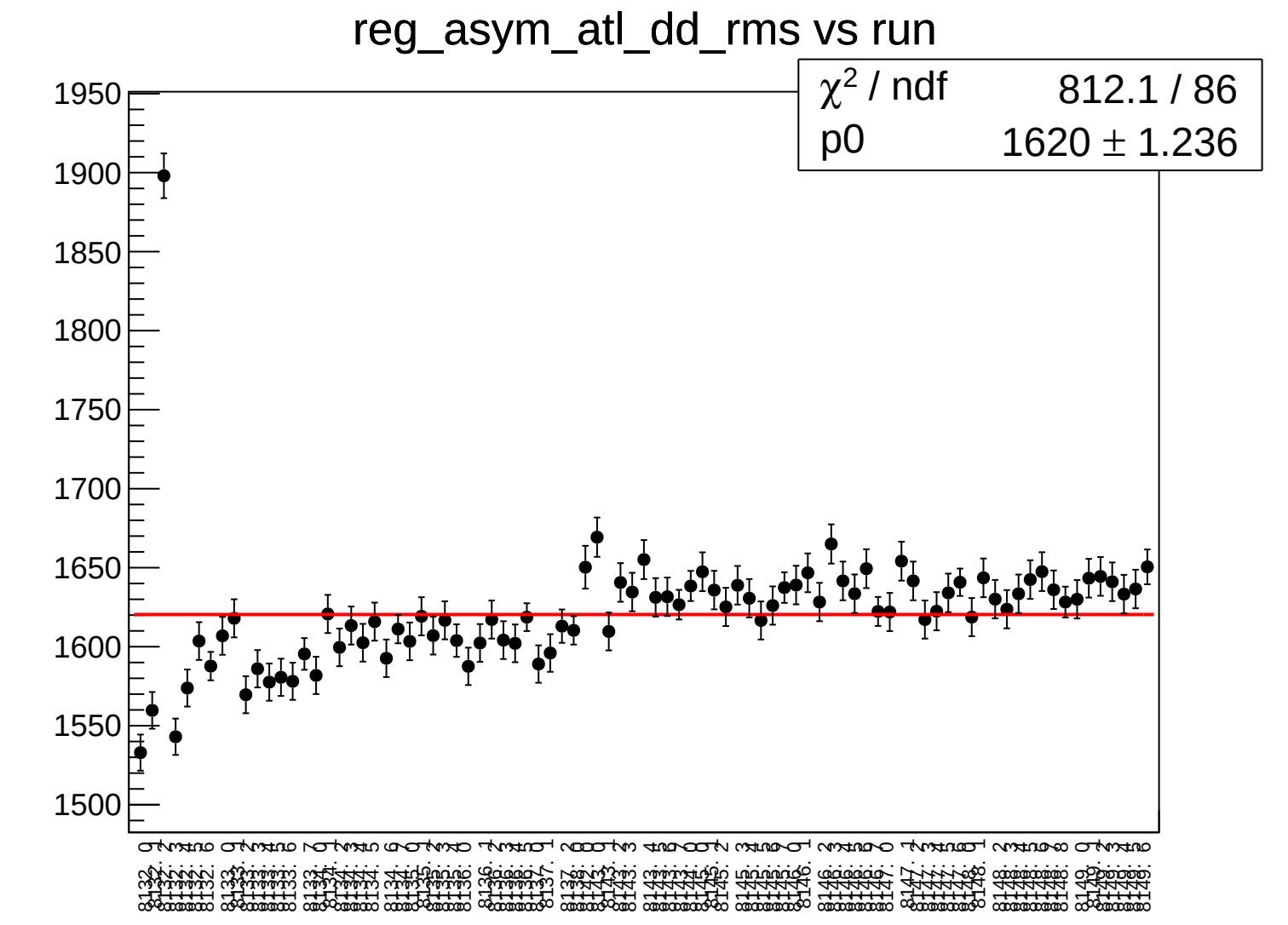

asym_atl_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 69.98 / 86
p0 −9.284e−14 ± 2.291e−13
pull
Entries 87
Mean −76.64
Std Dev 0

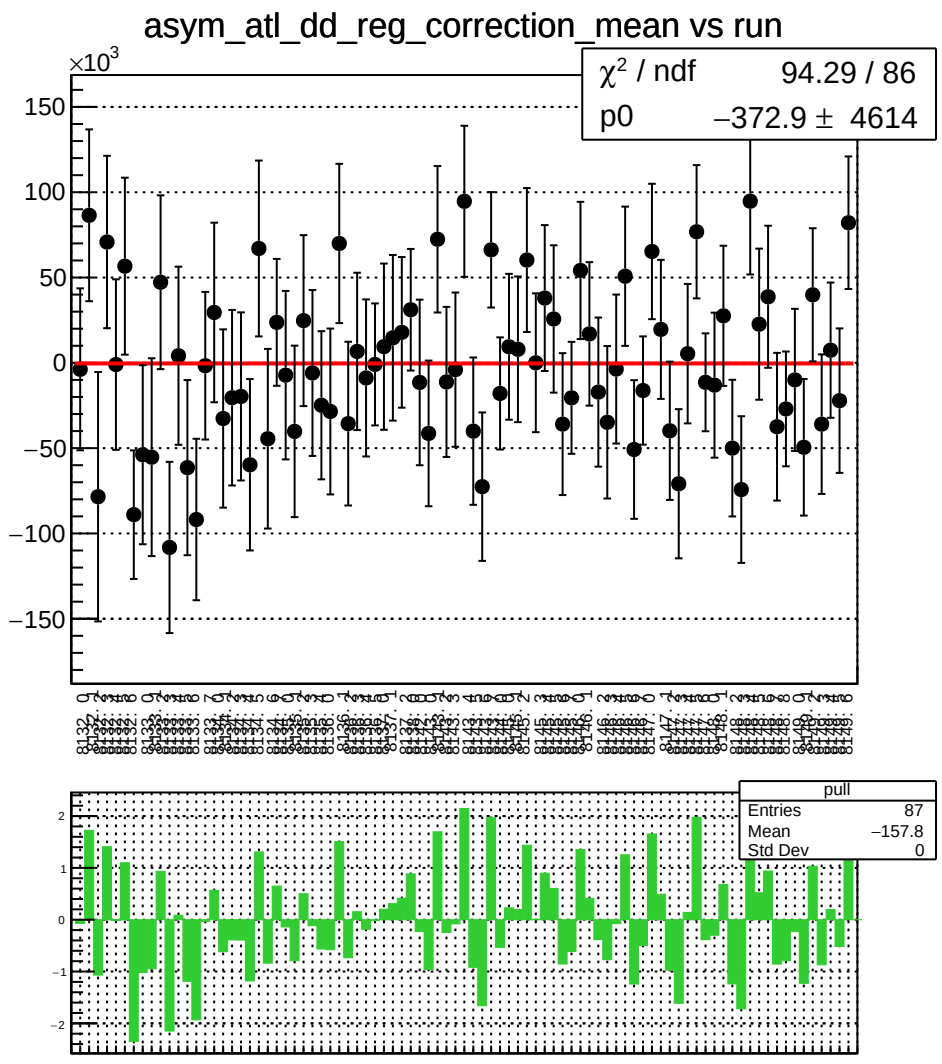

pull1D
Entries 87
Mean 0.02474
Std Dev 0.8965

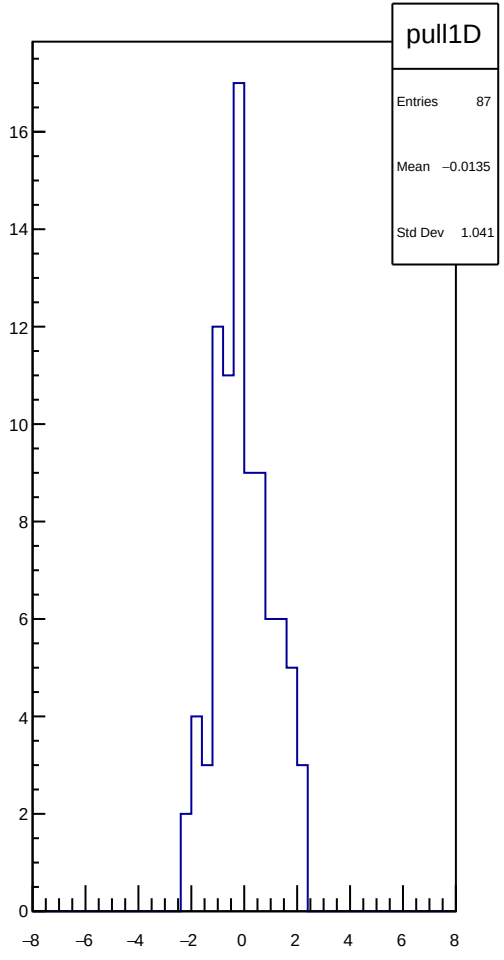

asym_atl_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.149e+05 / 86
p0 1.623e−10 ± 1.62e−13
1.4
1.2
1
0.8
0.6
0.4
0.2

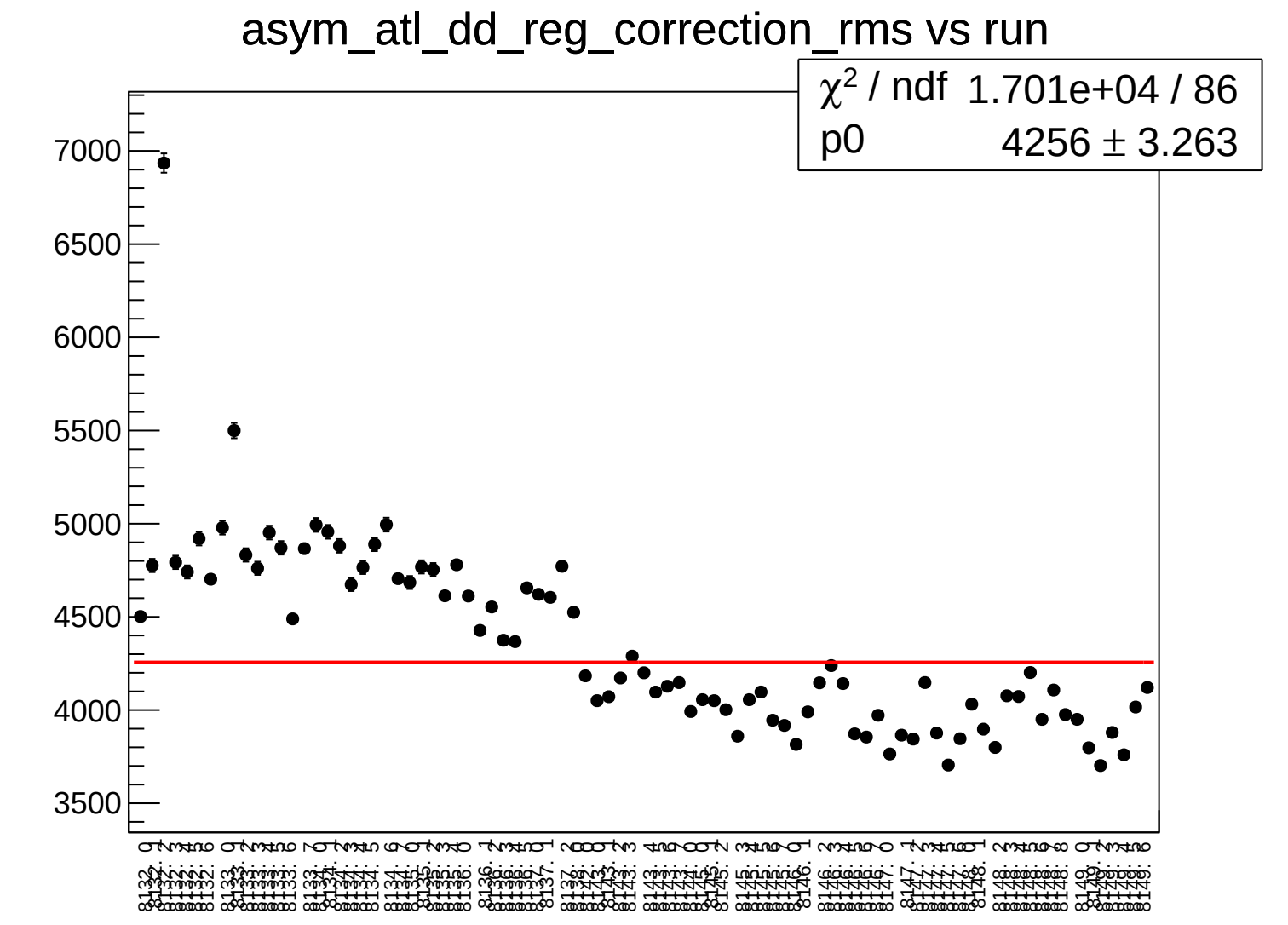

reg_asym_atl_dd_mean vs run
χ² / ndf 81.22 / 86
p0 −359.9 ± 1748
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −774
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

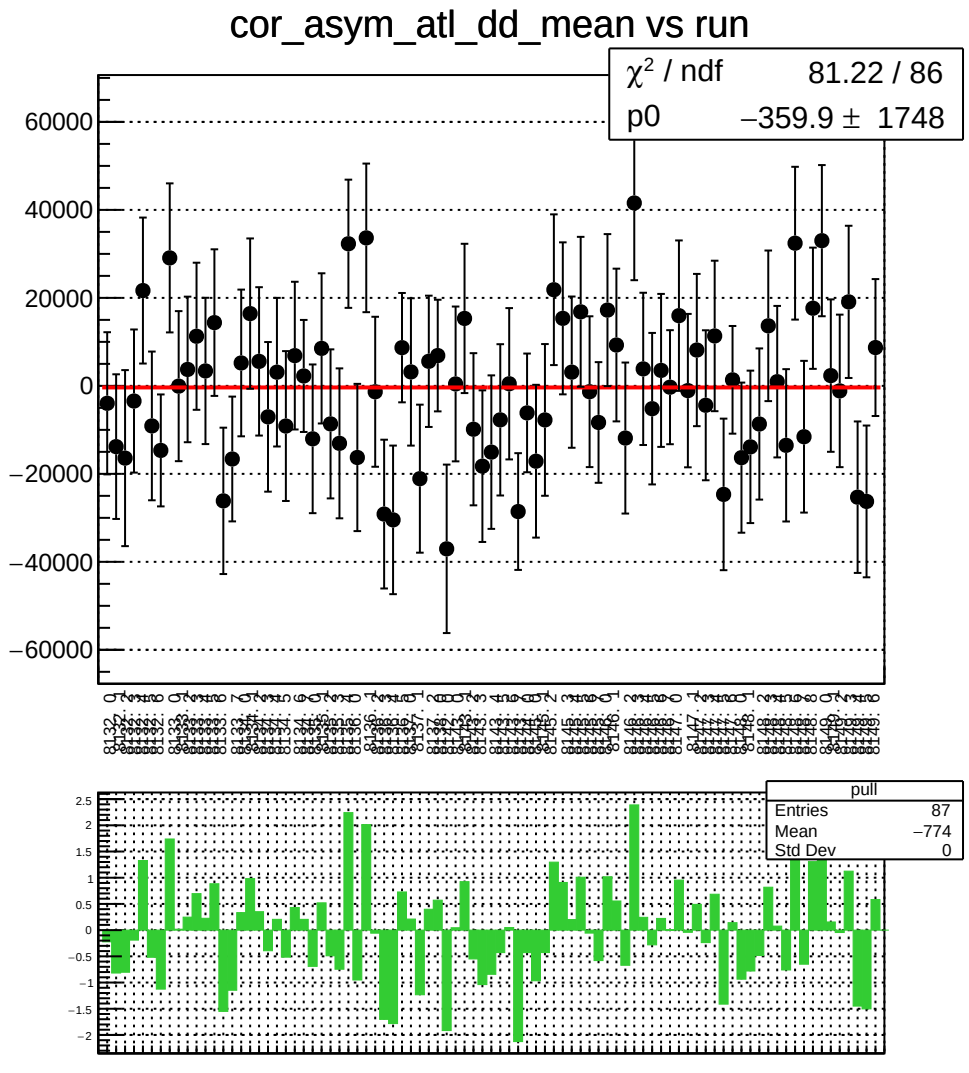

pull1D
Entries 87
Mean −0.001969
Std Dev 0.9662
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

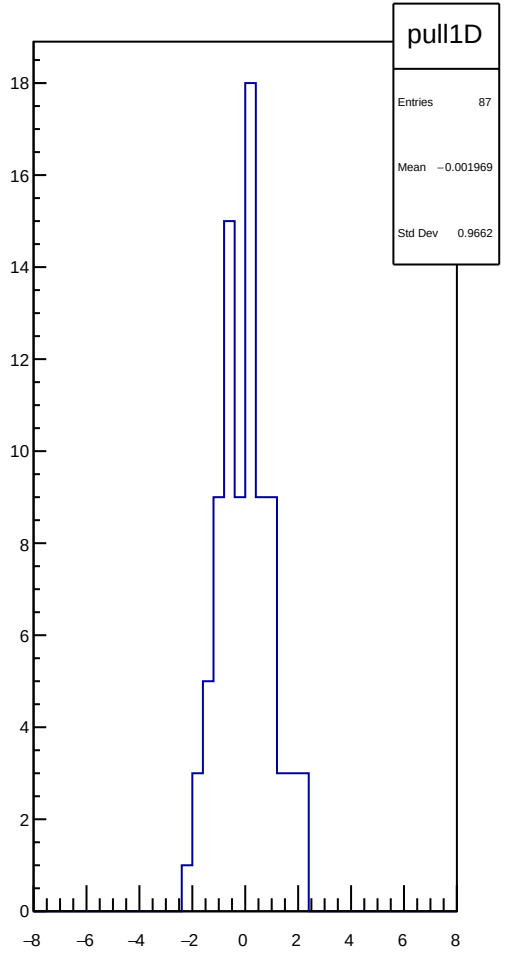

reg_asym_atl_dd_rms vs run
χ^2 / ndf 812.1 / 86
p0 1620 ± 1.236
1950
1900
1850
1800
1750
1700
1650
1600
1550
1500

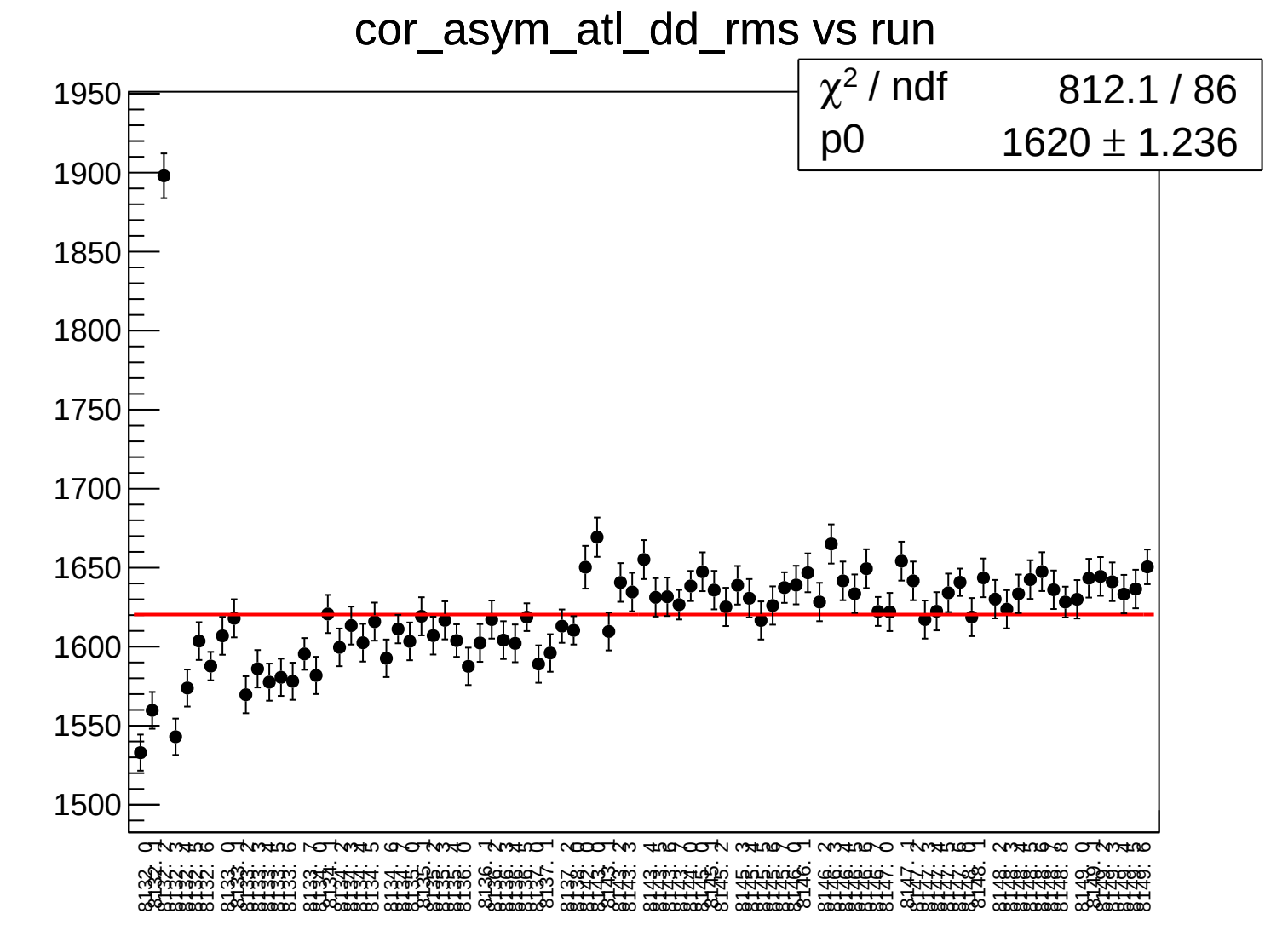

asym_atl_dd_reg_correction_mean vs run
×10^3
χ² / ndf 94.29 / 86
p0 −372.9 ± 4614
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean −157.8
Std Dev 0
2
1
0
−1
−2

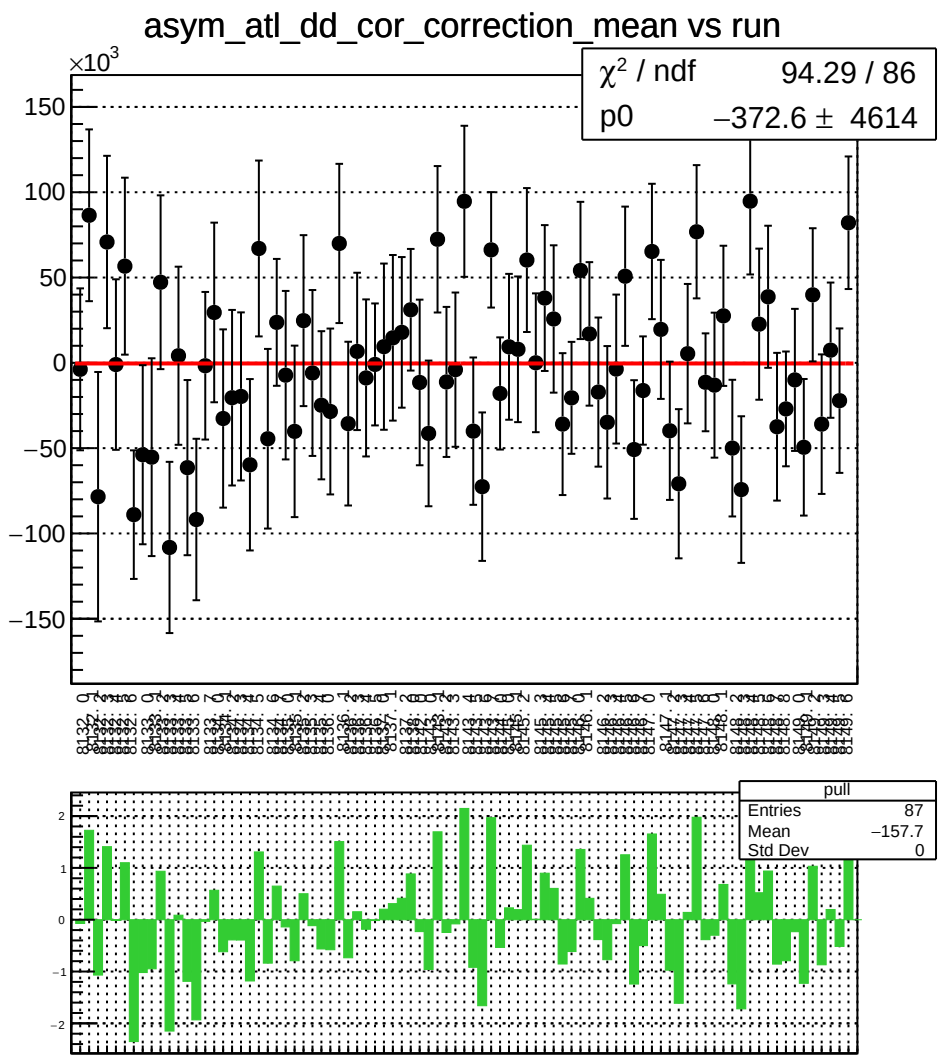

pull1D
Entries 87
Mean −0.0135
Std Dev 1.041
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

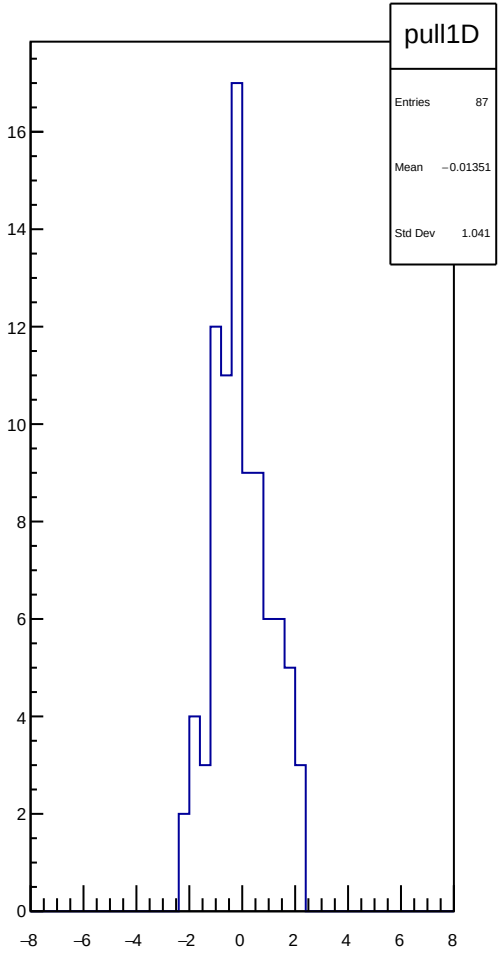

asym_atl_dd_reg_correction_rms vs run
χ² / ndf 1.701e+04 / 86
p0 4256 ± 3.263
7000
6500
6000
5500
5000
4500
4000
3500

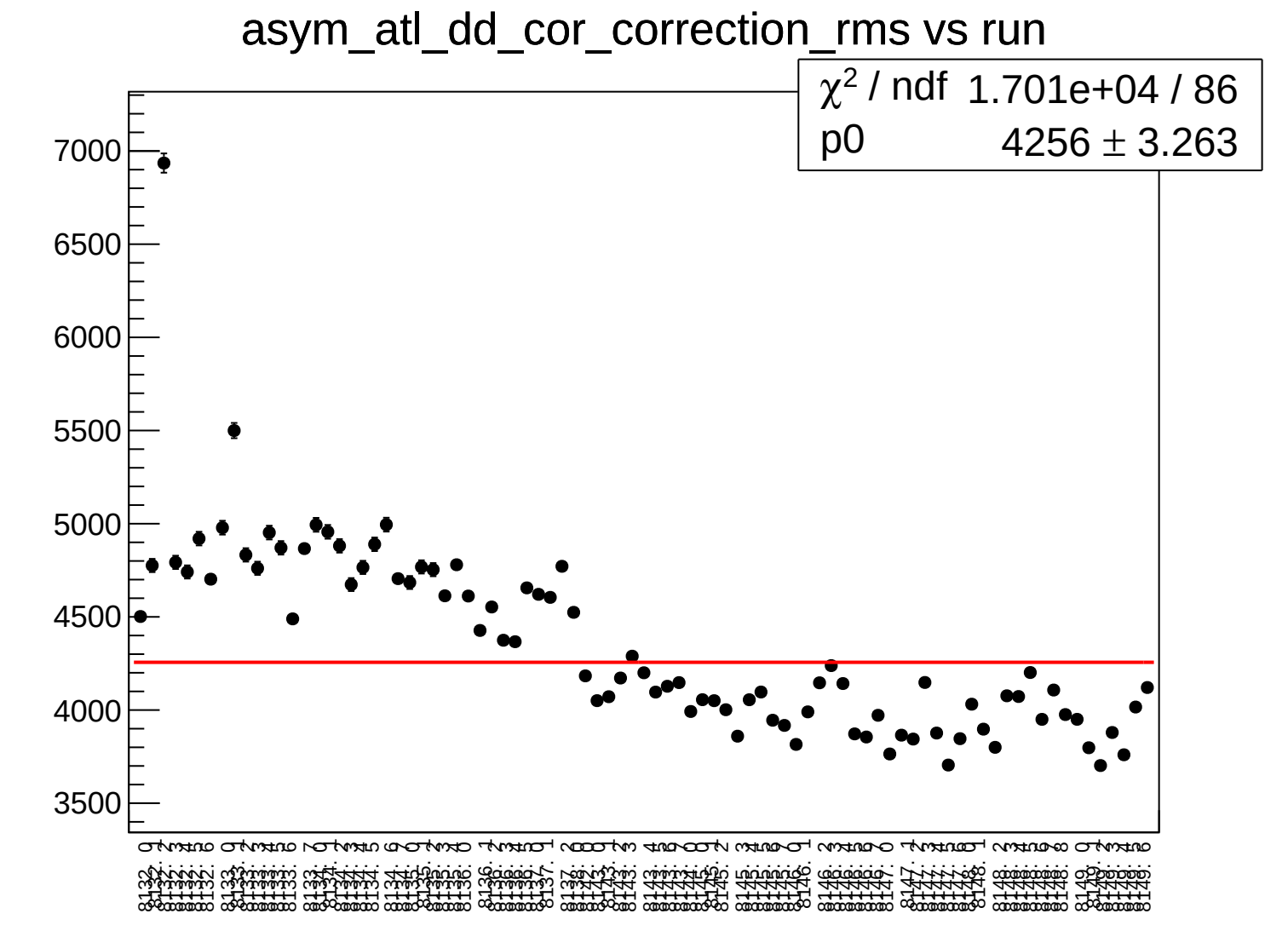

cor_asym_atl_dd_mean vs run
χ² / ndf 81.22 / 86
p0 −359.9 ± 1748
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −774
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

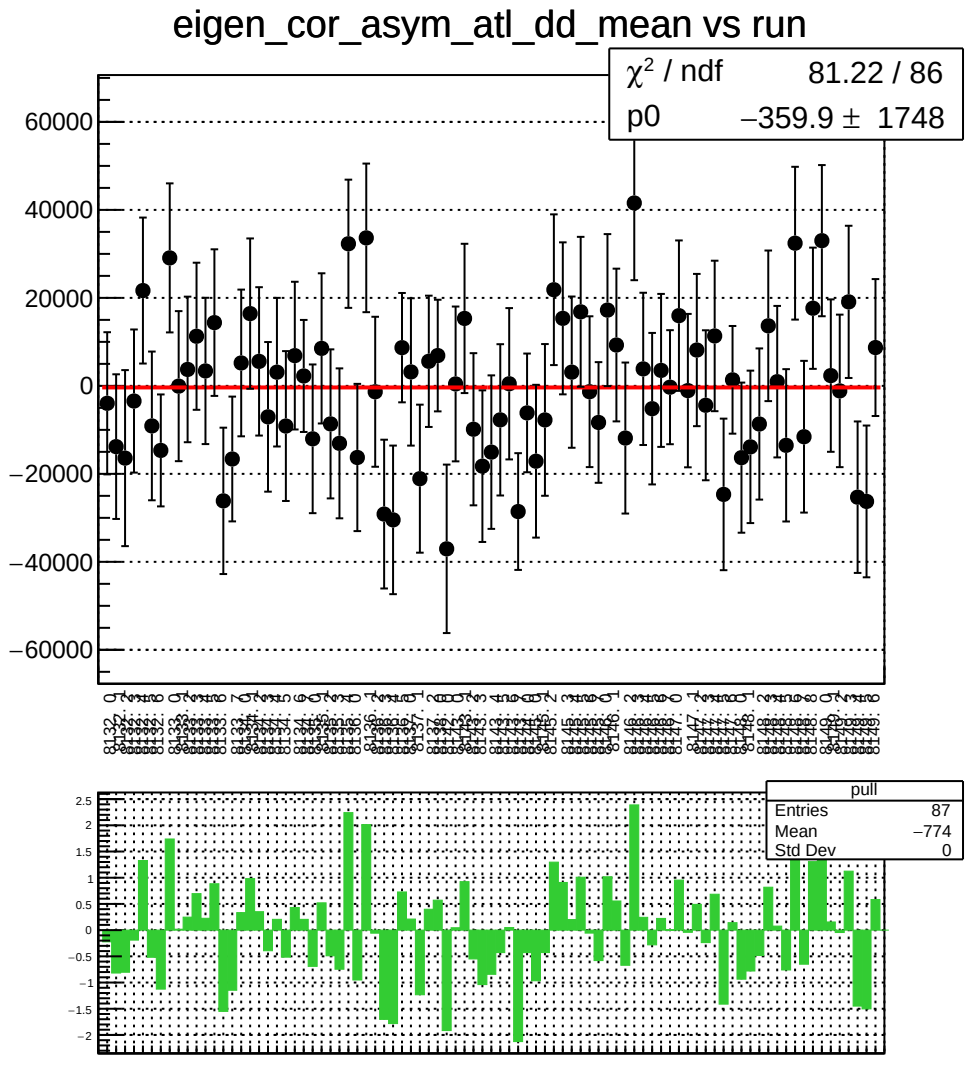

pull1D
Entries 87
Mean −0.001969
Std Dev 0.9662
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

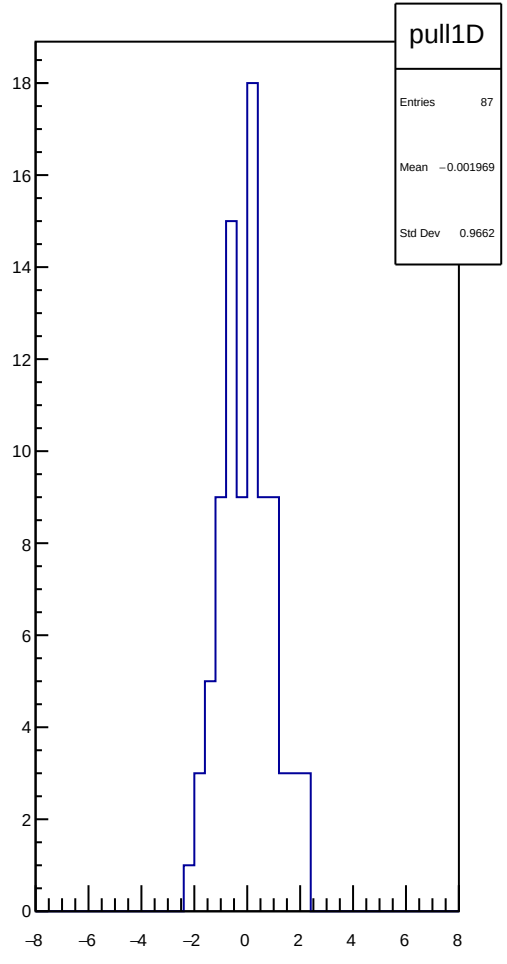

cor_asym_atl_dd_rms vs run
χ² / ndf 812.1 / 86
p0 1620 ± 1.236
1950
1900
1850
1800
1750
1700
1650
1600
1550
1500

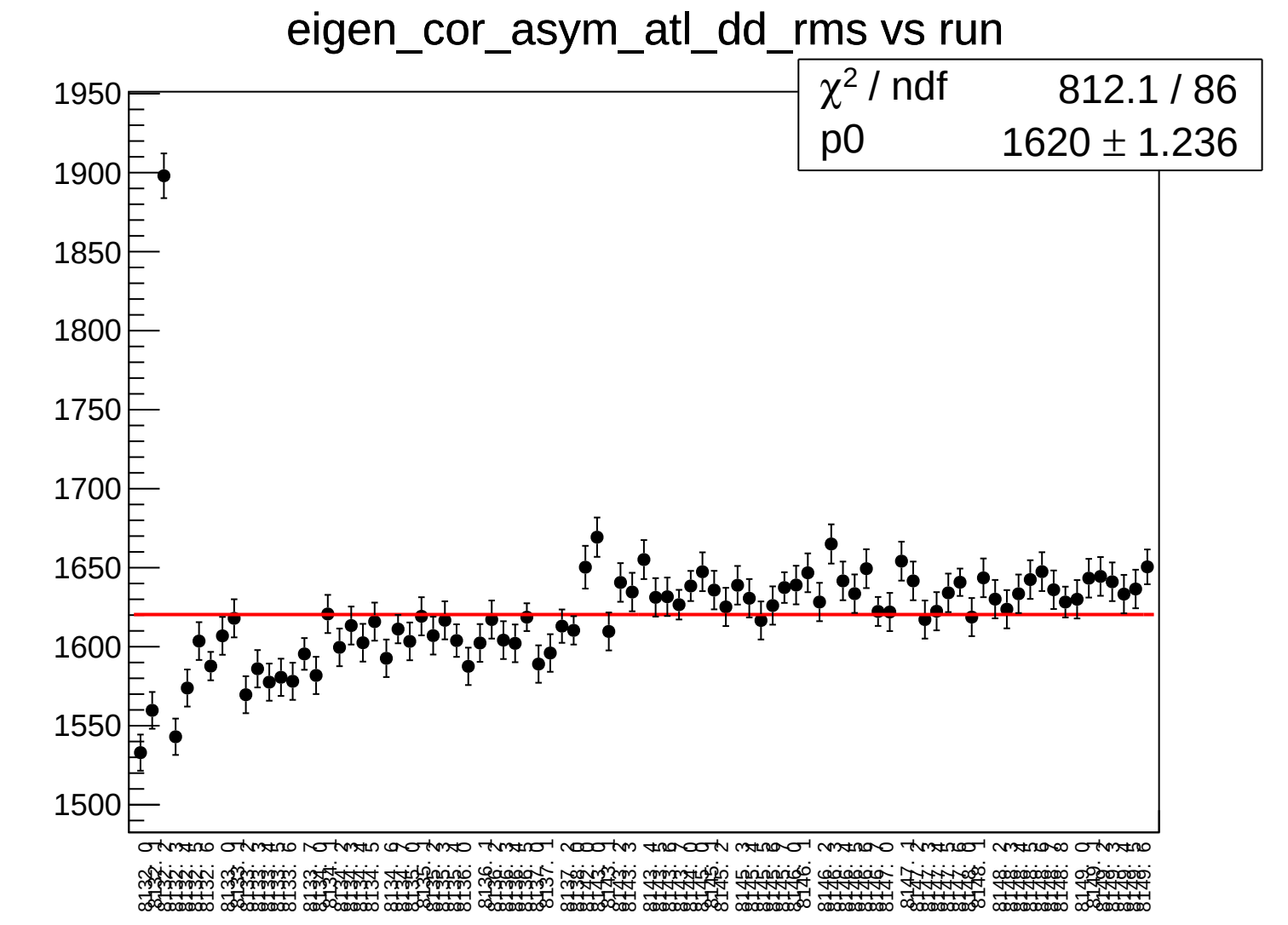

asym_atl_dd_cor_correction_mean vs run
×10^3
χ² / ndf 94.29 / 86
p0 −372.6 ± 4614
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean −157.7
Std Dev 0
2
1
0
−1
−2

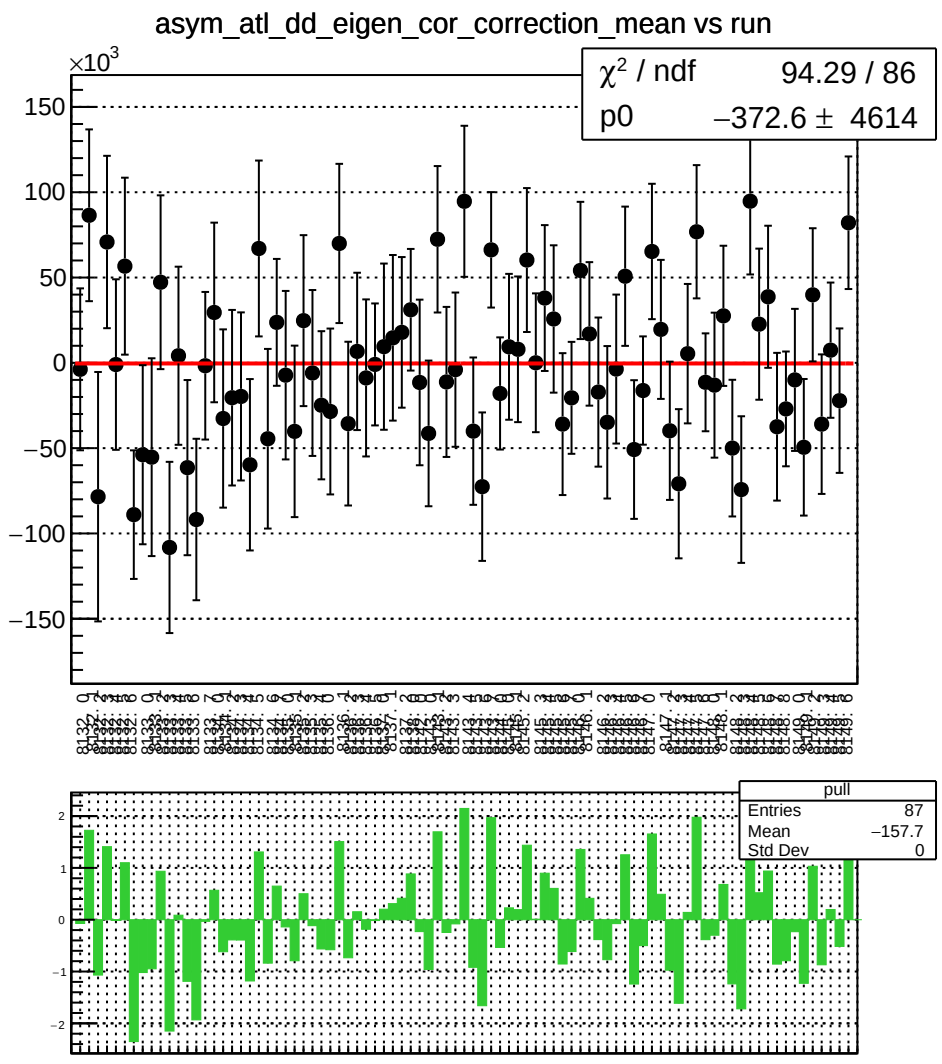

pull1D
Entries 87
Mean −0.01351
Std Dev 1.041
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

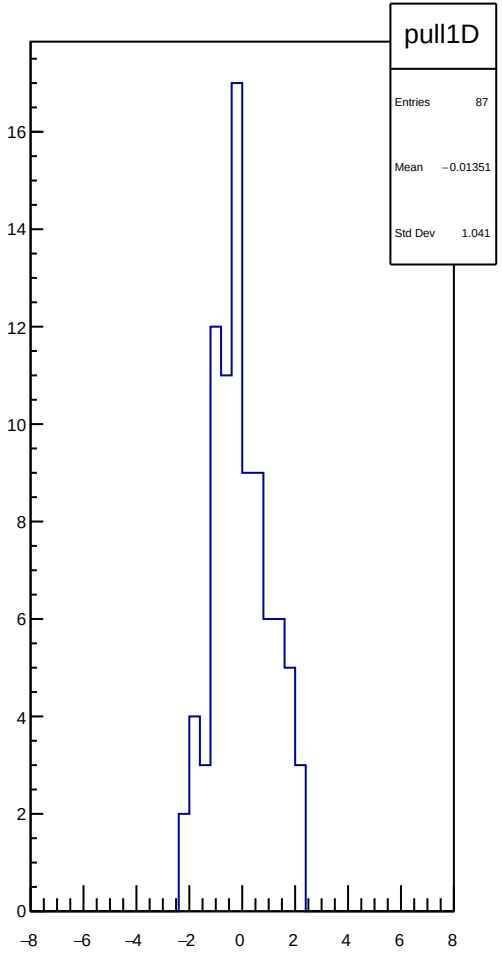

asym_atl_dd_cor_correction_rms vs run
χ^2 / ndf 1.701e+04 / 86
p0 4256 ± 3.263
7000
6500
6000
5500
5000
4500
4000
3500

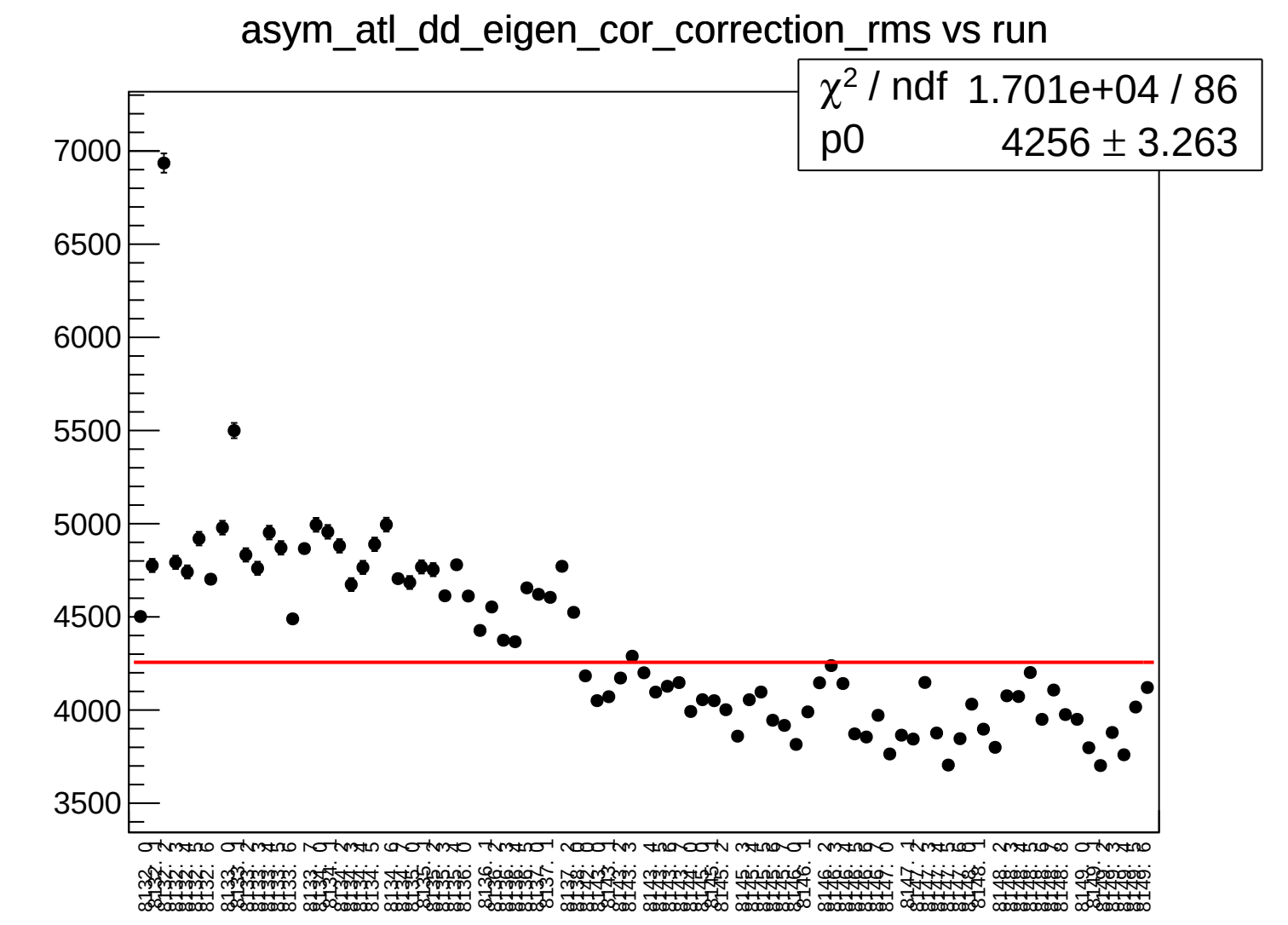

eigen_cor_asym_atl_dd_mean vs run
χ² / ndf 81.22 / 86
p0 −359.9 ± 1748
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −774
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

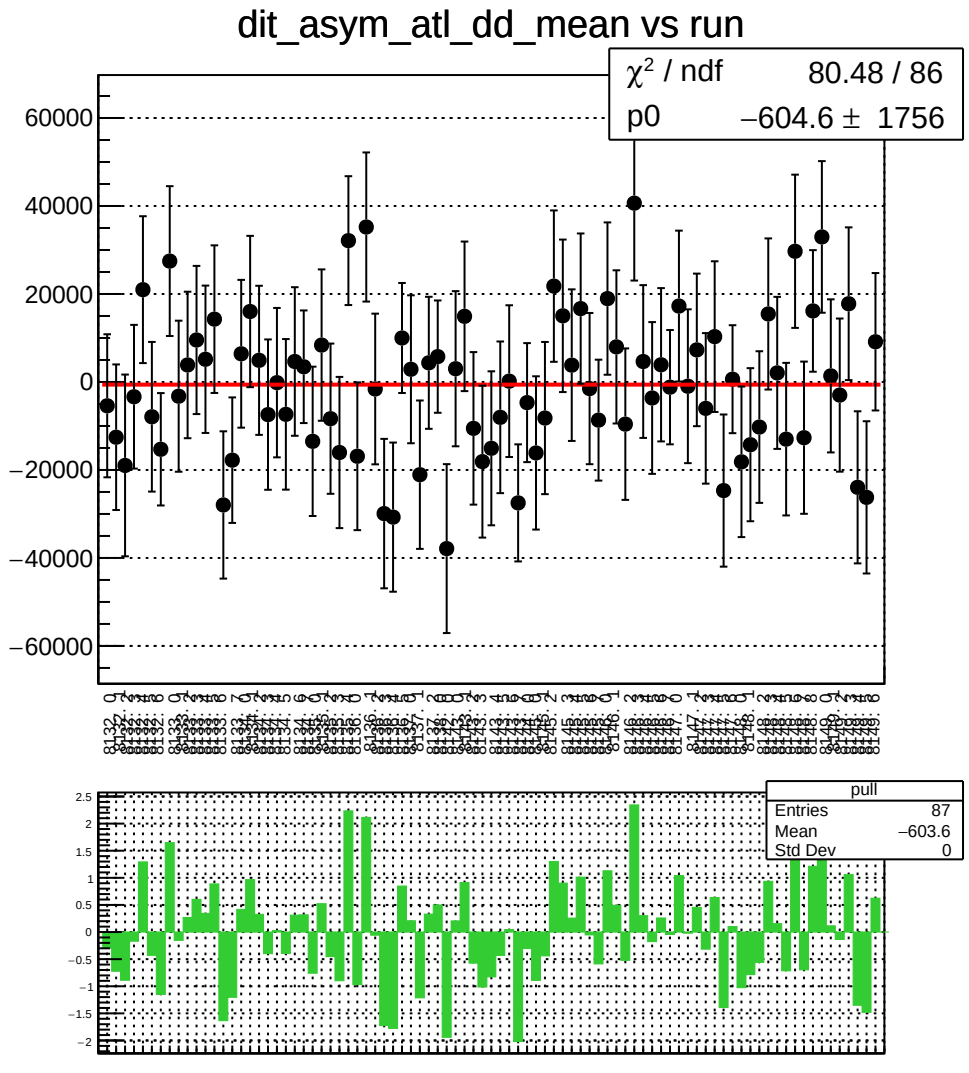

pull1D
Entries 87
Mean −0.001969
Std Dev 0.9662
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

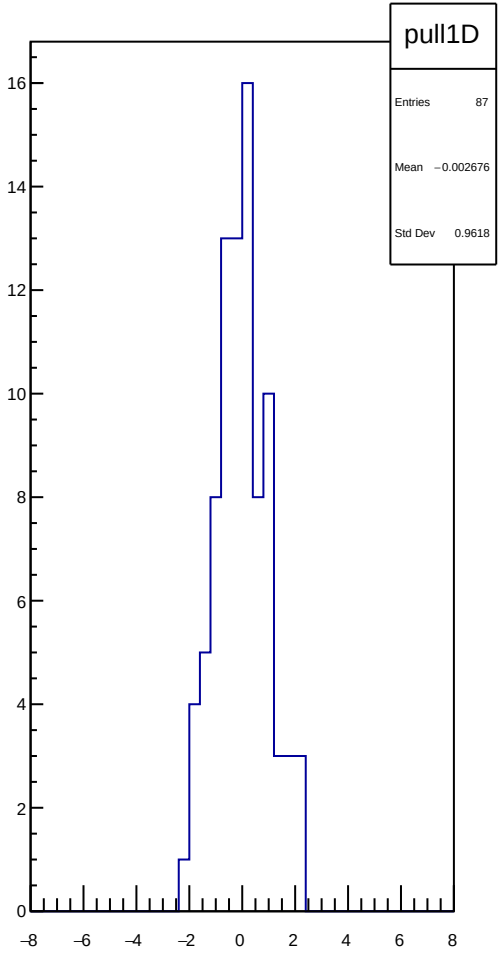

eigen_cor_asym_atl_dd_rms vs run
χ² / ndf 812.1 / 86
p0 1620 ± 1.236
1950
1900
1850
1800
1750
1700
1650
1600
1550
1500

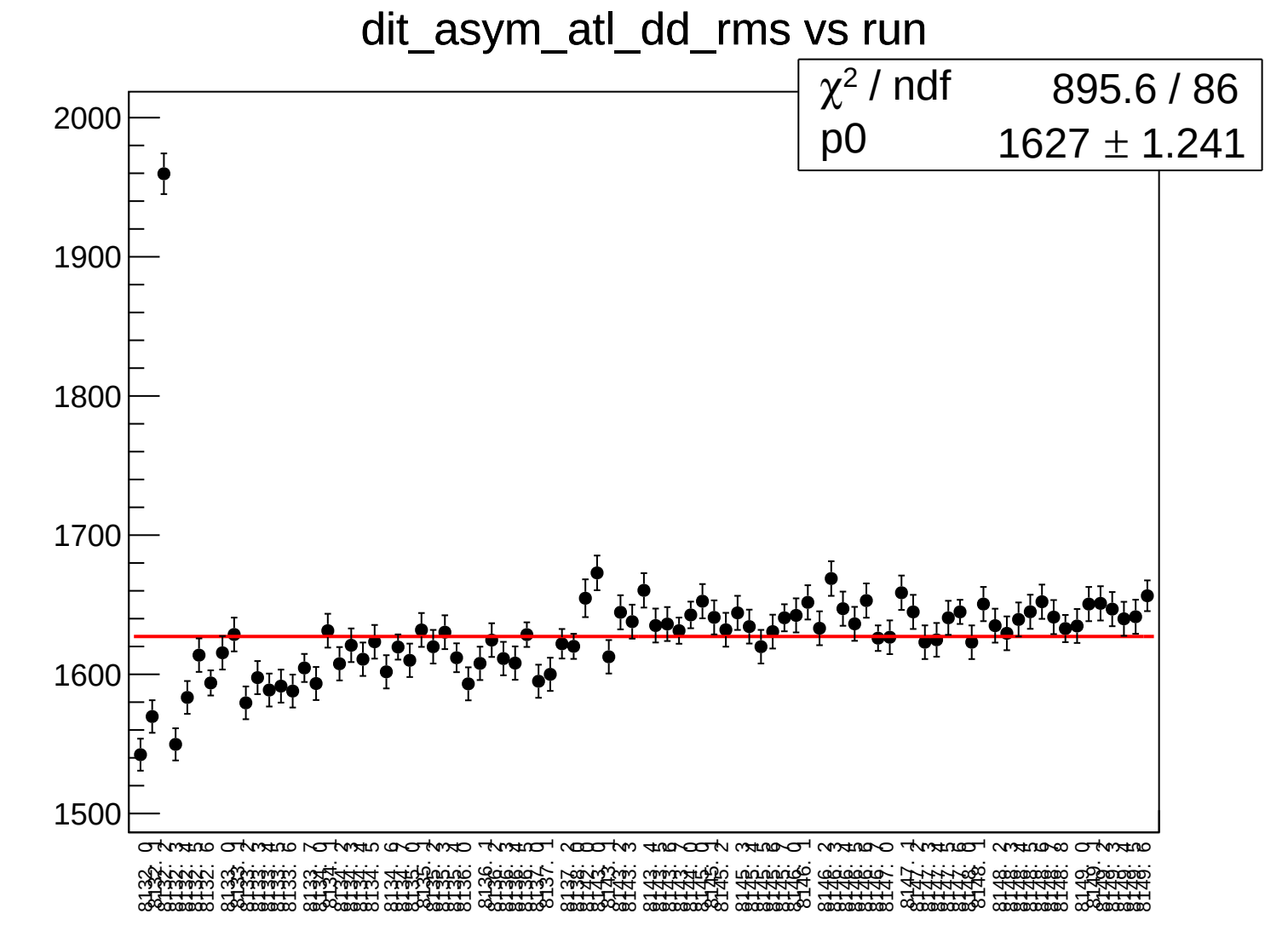

asym_atl_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 94.29 / 86
p0 −372.6 ± 4614
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean −157.7
Std Dev 0
2
1
0
−1
−2

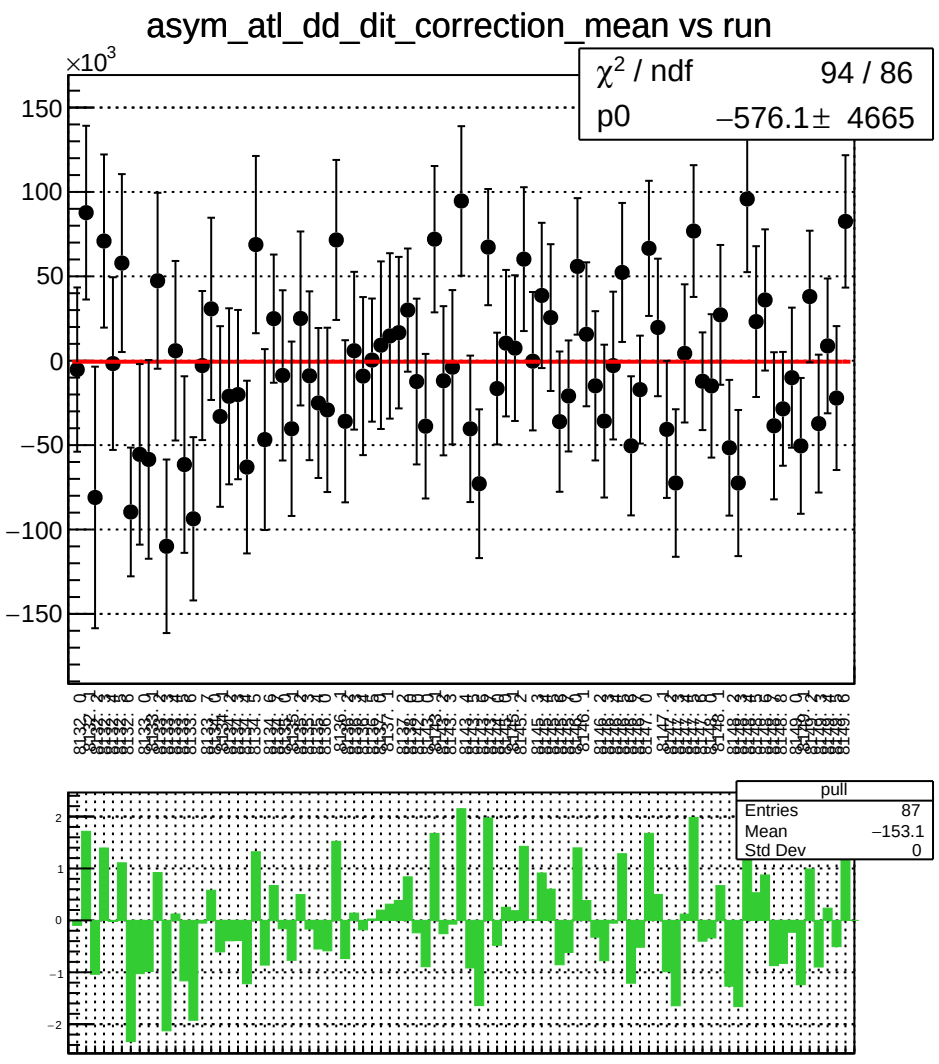

pull1D
Entries 87
Mean −0.01351
Std Dev 1.041
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

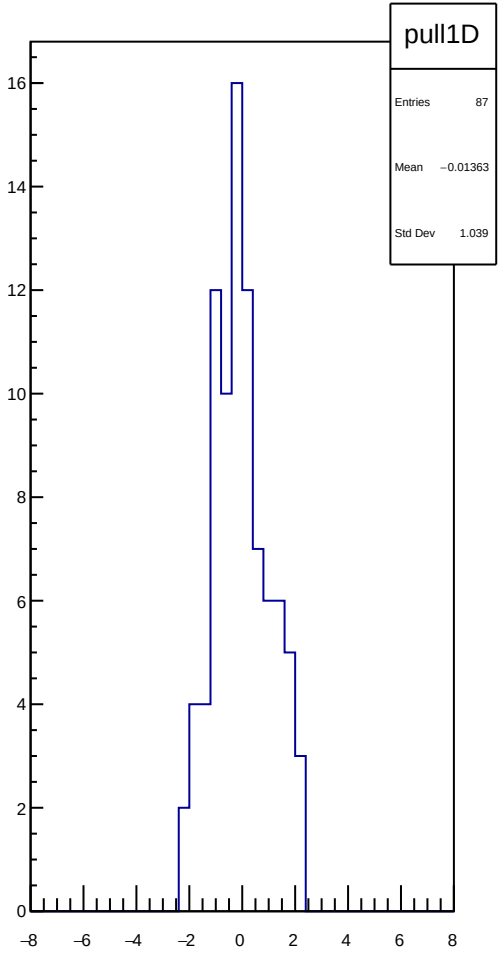

asym_atl_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 1.701e+04 / 86
p0 4256 ± 3.263
7000
6500
6000
5500
5000
4500
4000
3500


dit_asym_atl_dd_mean vs run
χ² / ndf 80.48 / 86
p0 −604.6 ± 1756
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −603.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

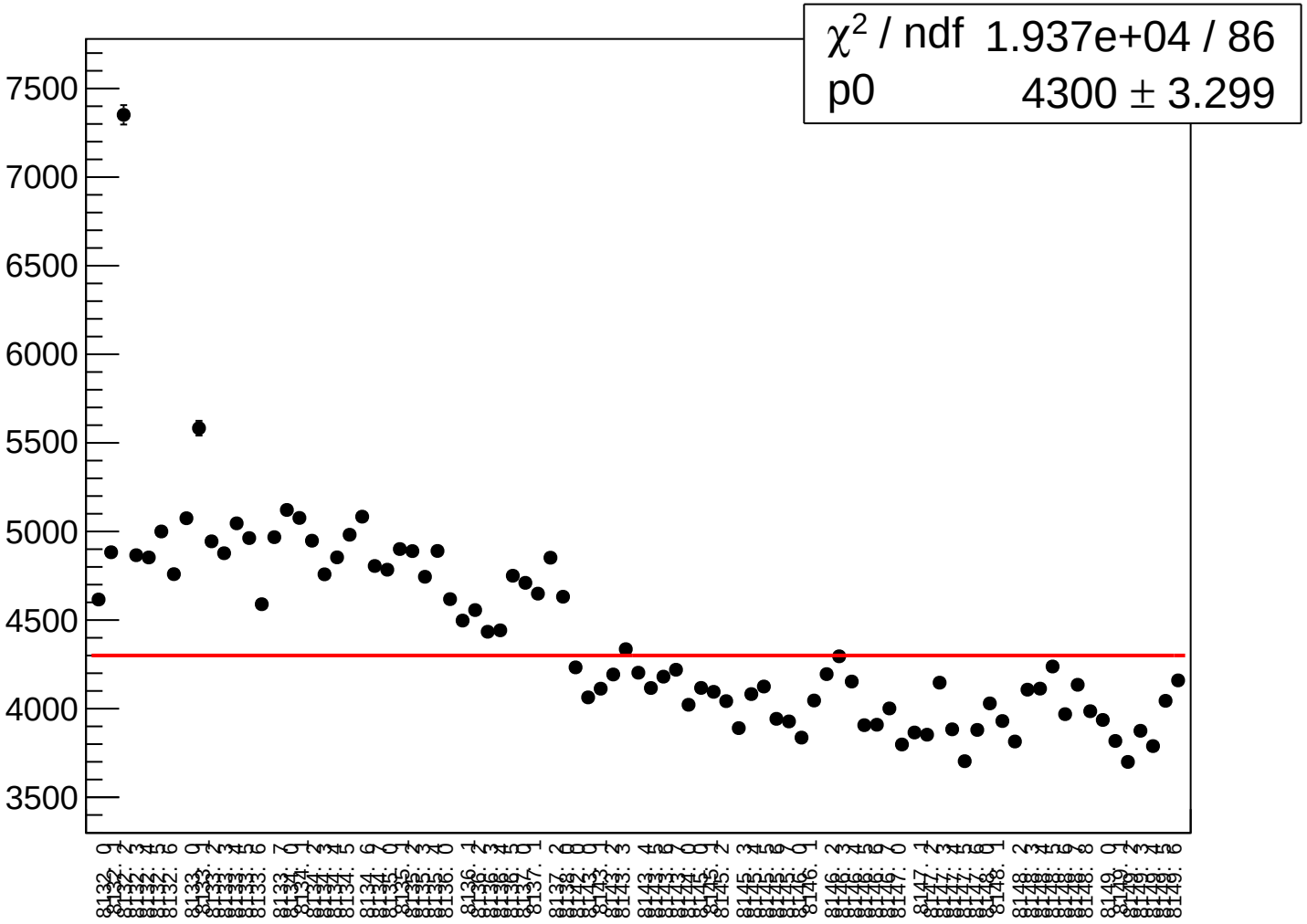

pull1D
Entries 87
Mean −0.002676
Std Dev 0.9618
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

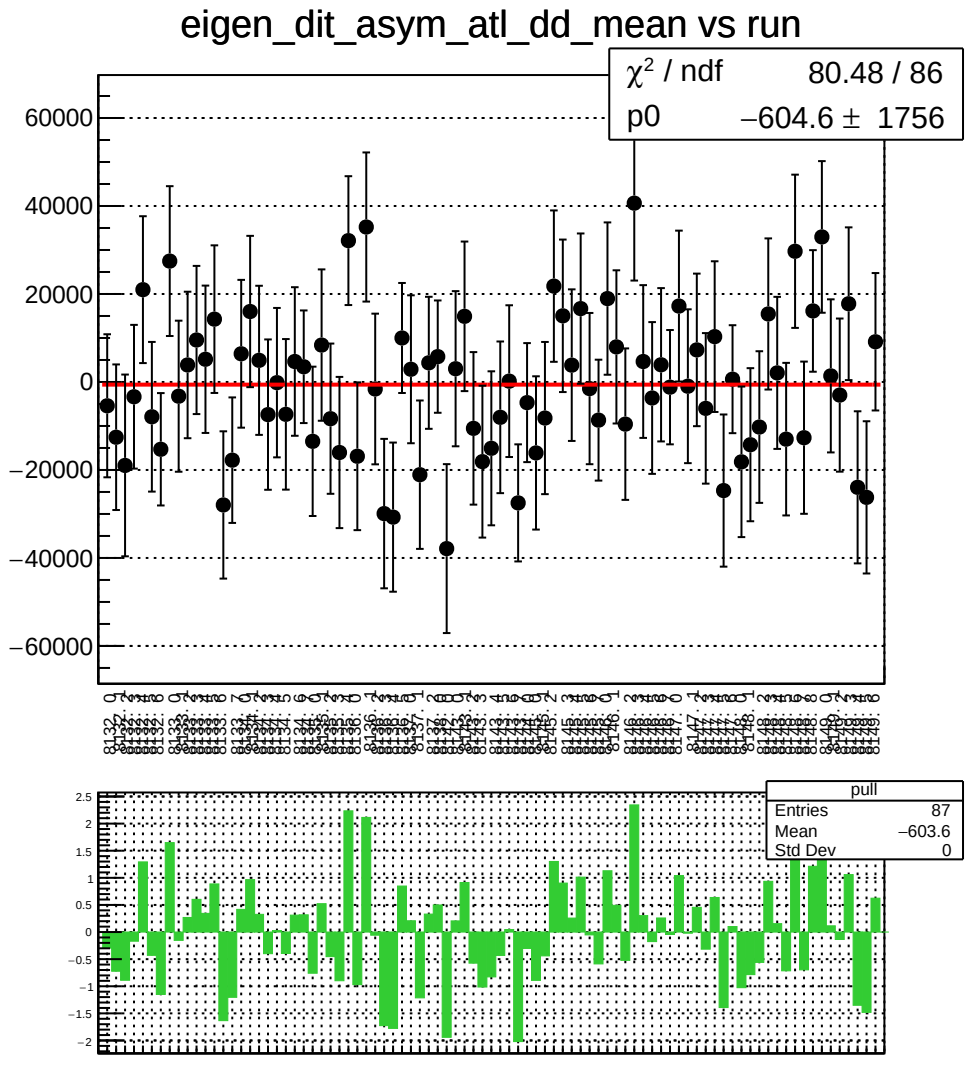

dit_asym_atl_dd_rms vs run
χ^2 / ndf 895.6 / 86
p0 1627 ± 1.241
2000
1900
1800
1700
1600
1500

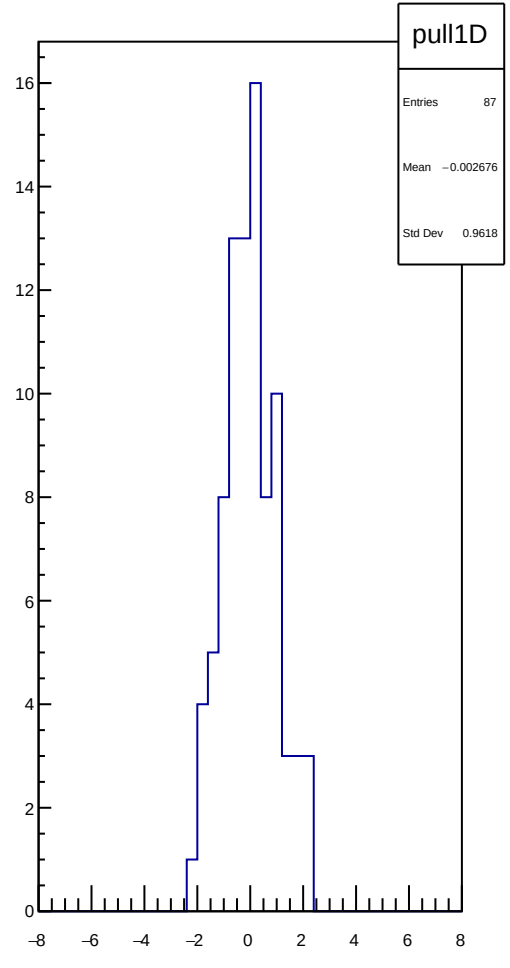

asym_atl_dd_dit_correction_mean vs run
×10^3
χ² / ndf 94 / 86
p0 −576.1± 4665
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean −153.1
Std Dev 0
2
1
0
−1
−2

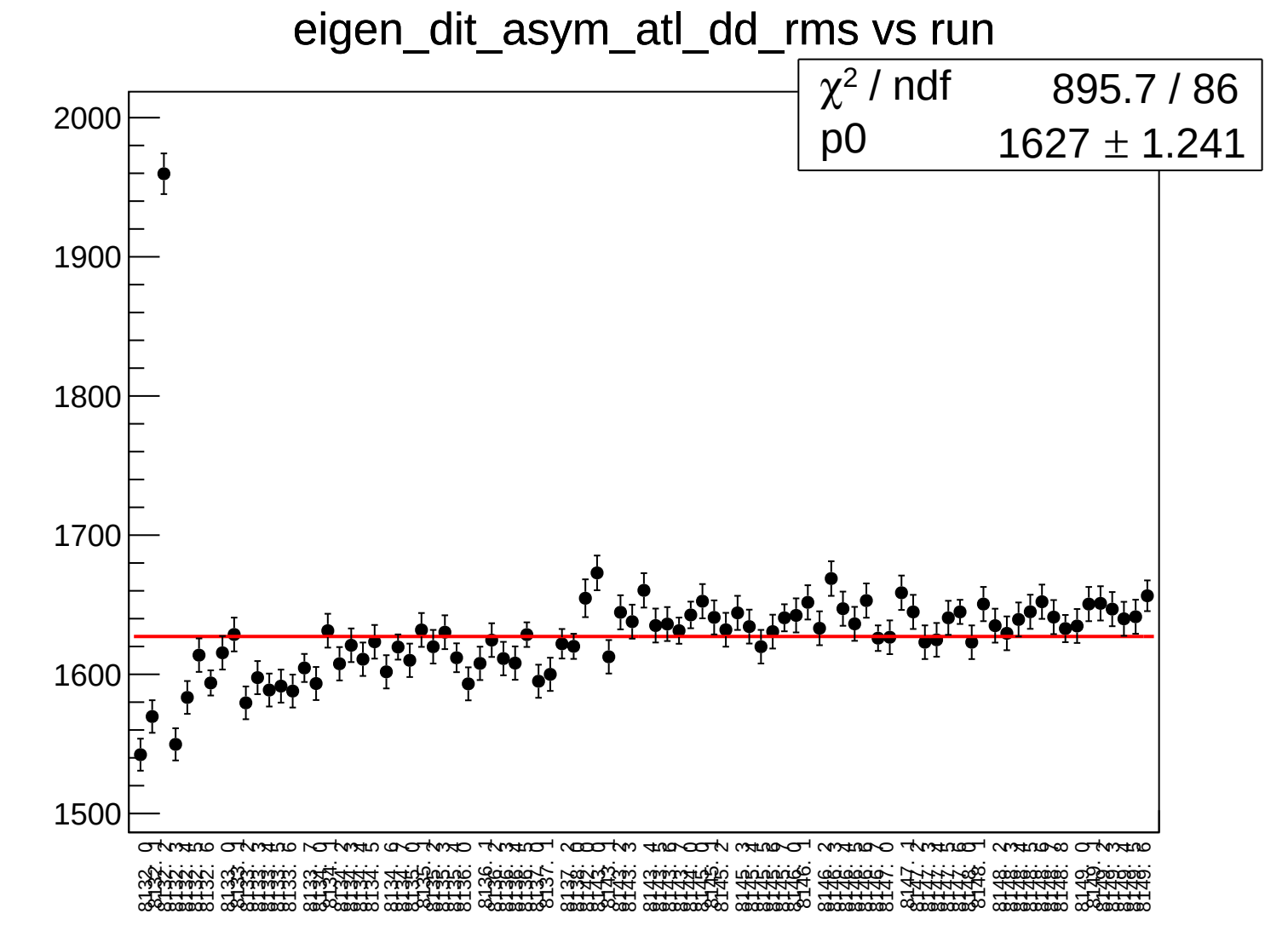

pull1D
Entries 87
Mean −0.01363
Std Dev 1.039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

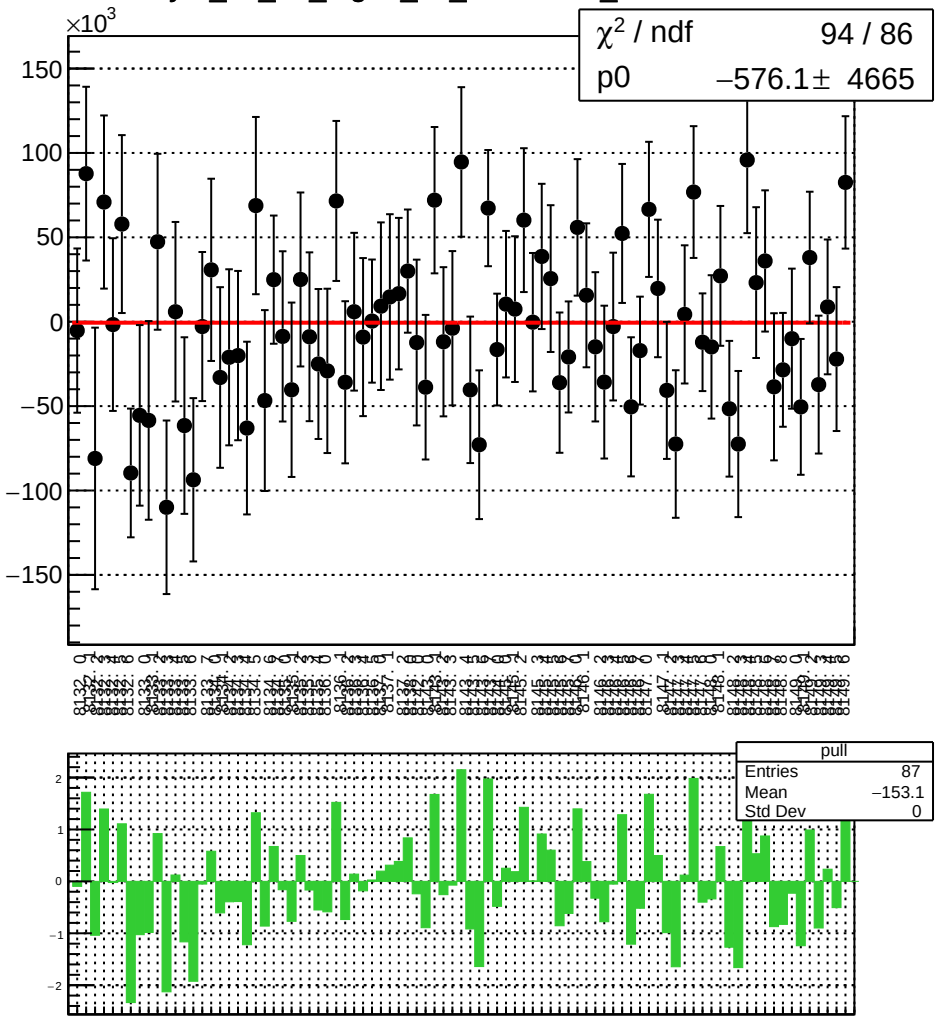
asym_atl_dd_dit_correction_rms vs run

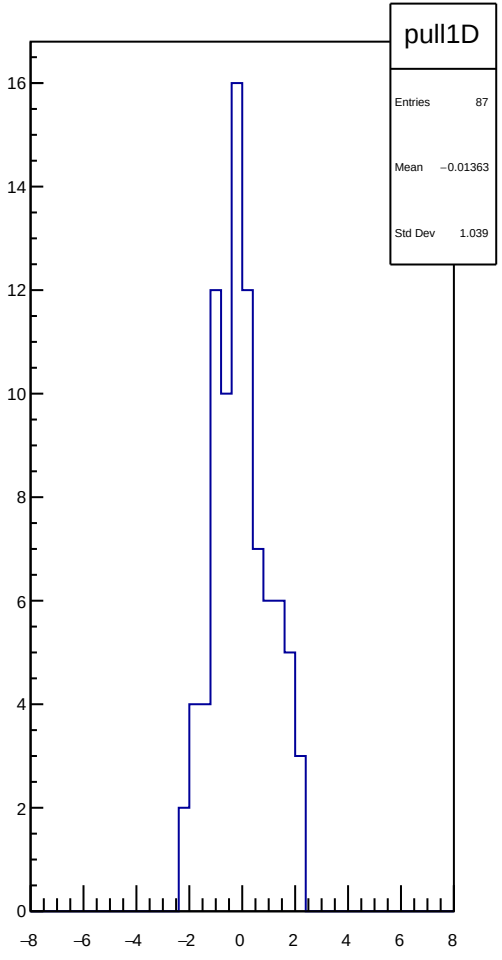


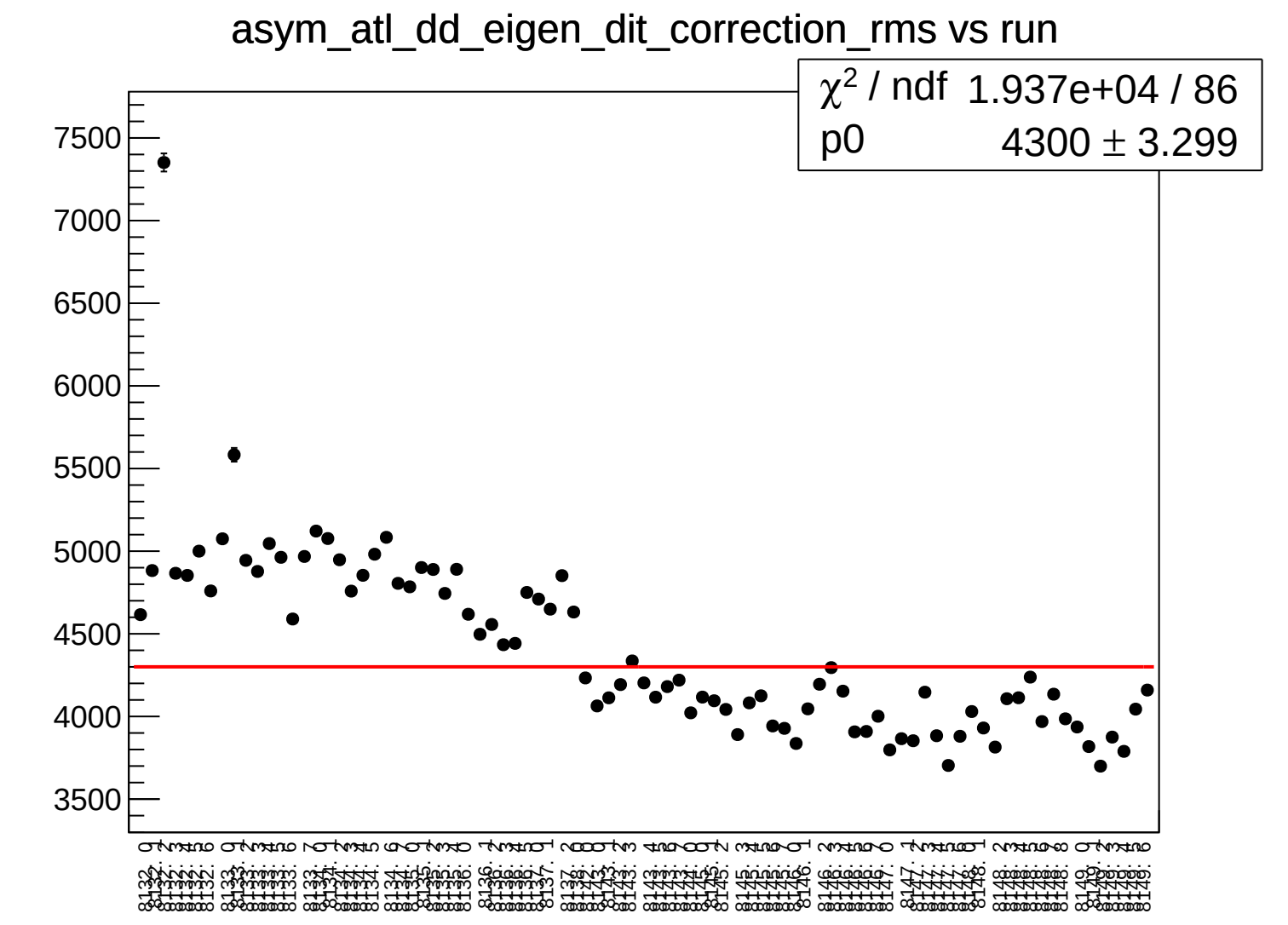

eigen_dit_asym_atl_dd_mean vs run
χ² / ndf 80.48 / 86
p0 −604.6 ± 1756
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −603.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

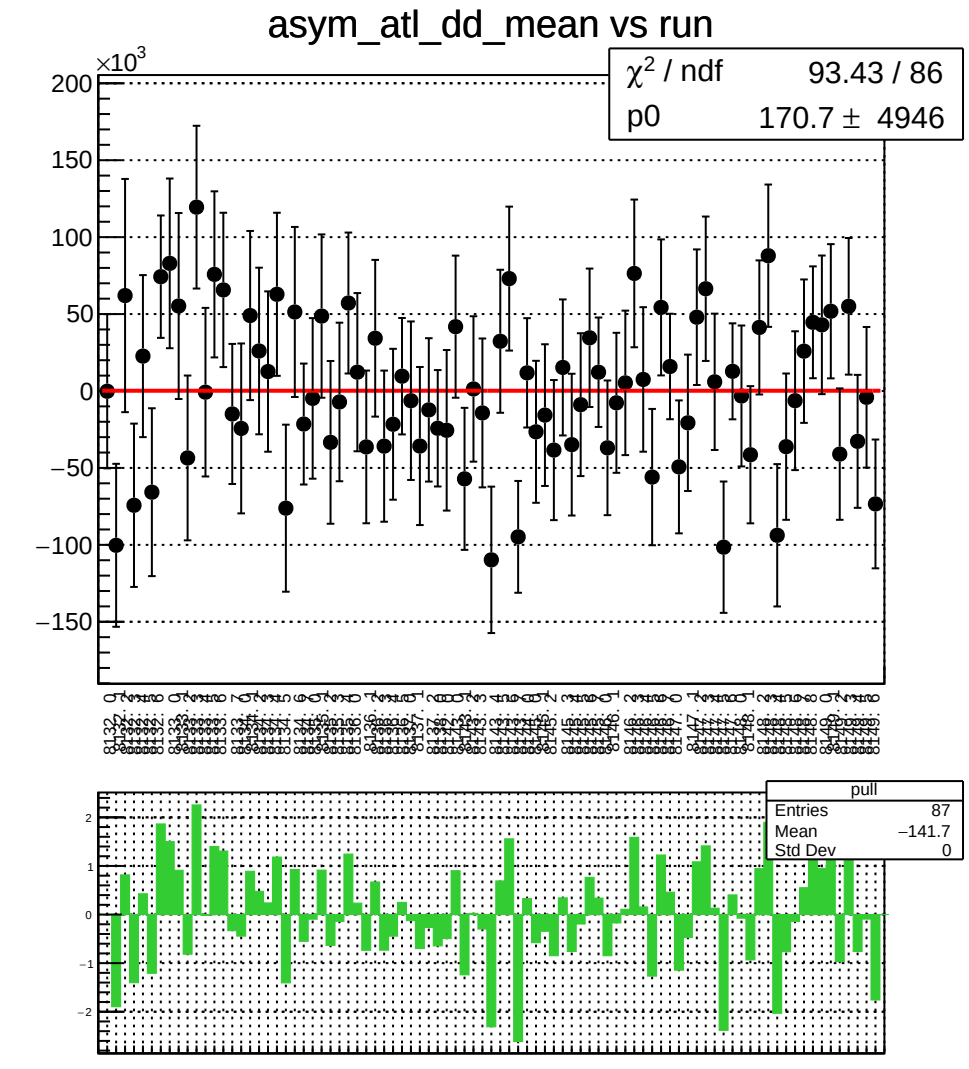

pull1D
Entries 87
Mean −0.002676
Std Dev 0.9618
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

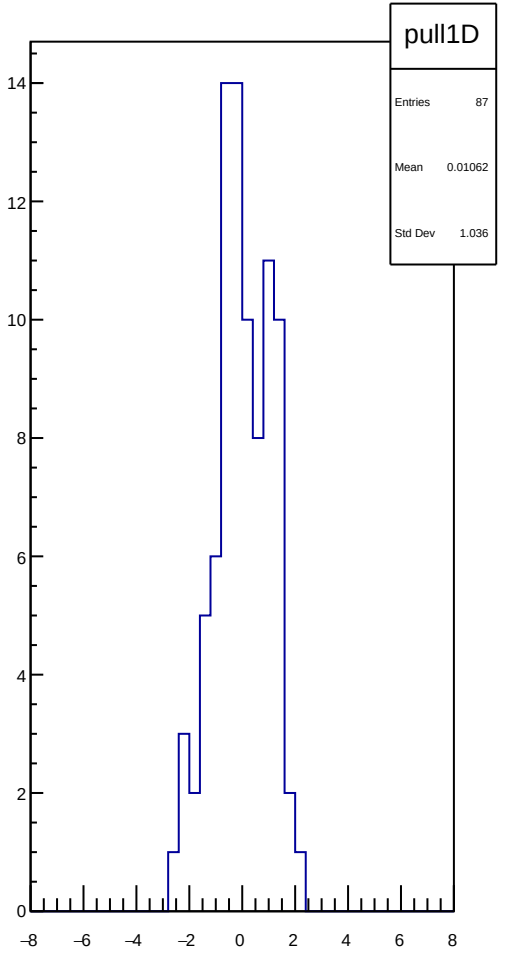

eigen_dit_asym_atl_dd_rms vs run
χ^2 / ndf 895.7 / 86
p0 1627 ± 1.241
2000
1900
1800
1700
1600
1500


asym_atl_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 94 / 86
p0 −576.1± 4665
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean −153.1
Std Dev 0
2
1
0
−1
−2

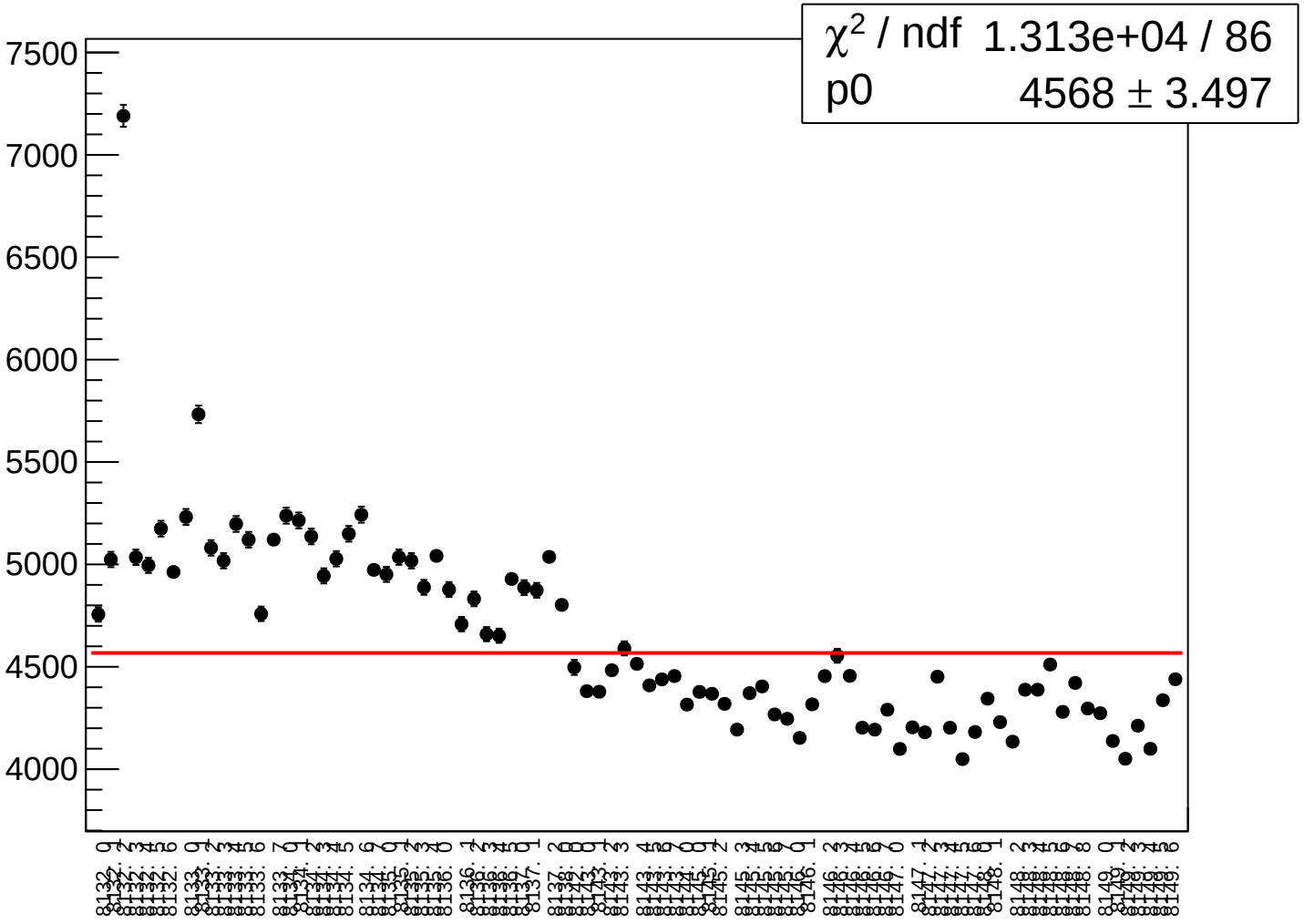

pull1D
Entries 87
Mean −0.01363
Std Dev 1.039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

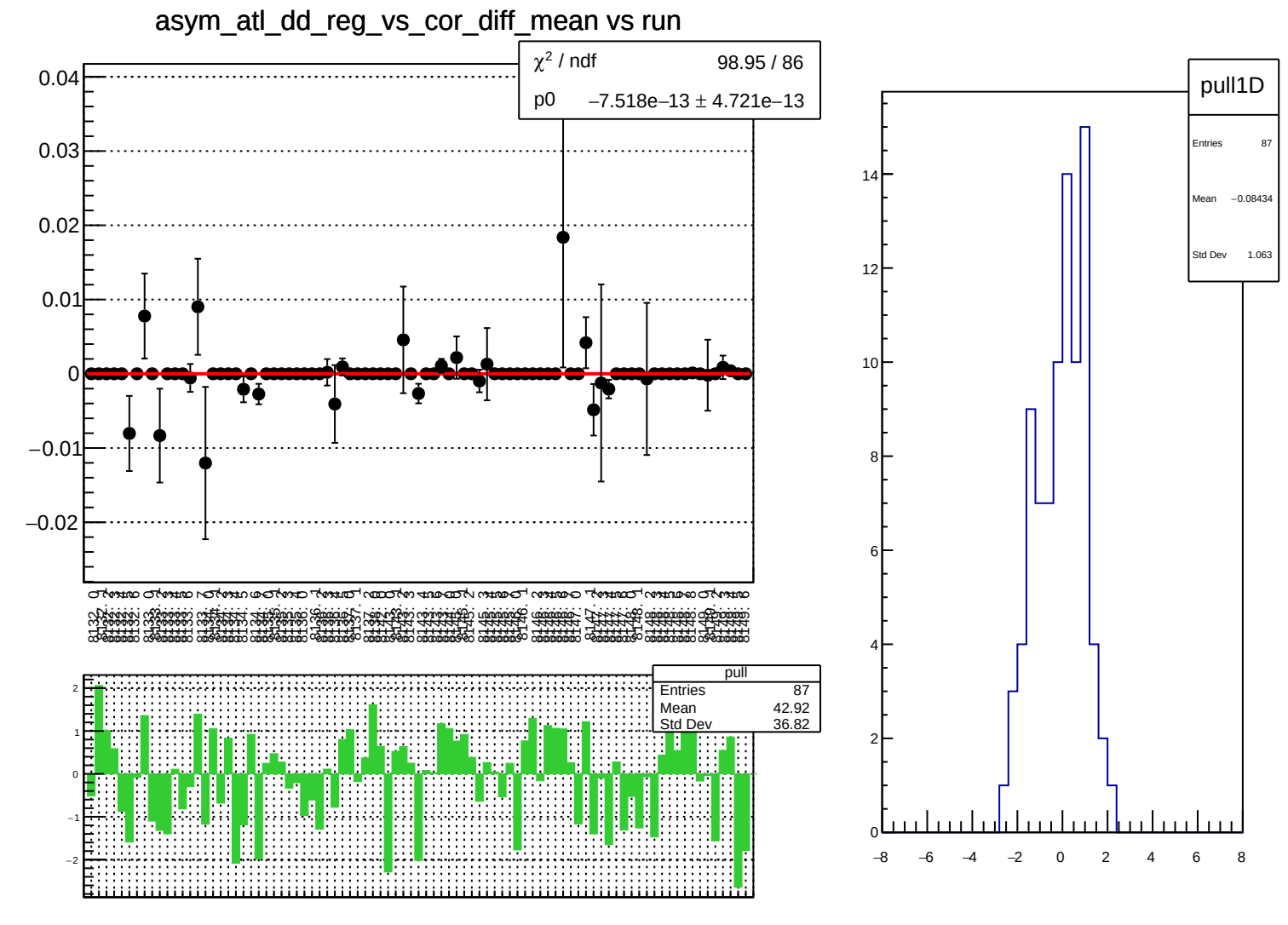

asym_atl_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.937e+04 / 86
p0 4300 ± 3.299
7500
7000
6500
6000
5500
5000
4500
4000
3500

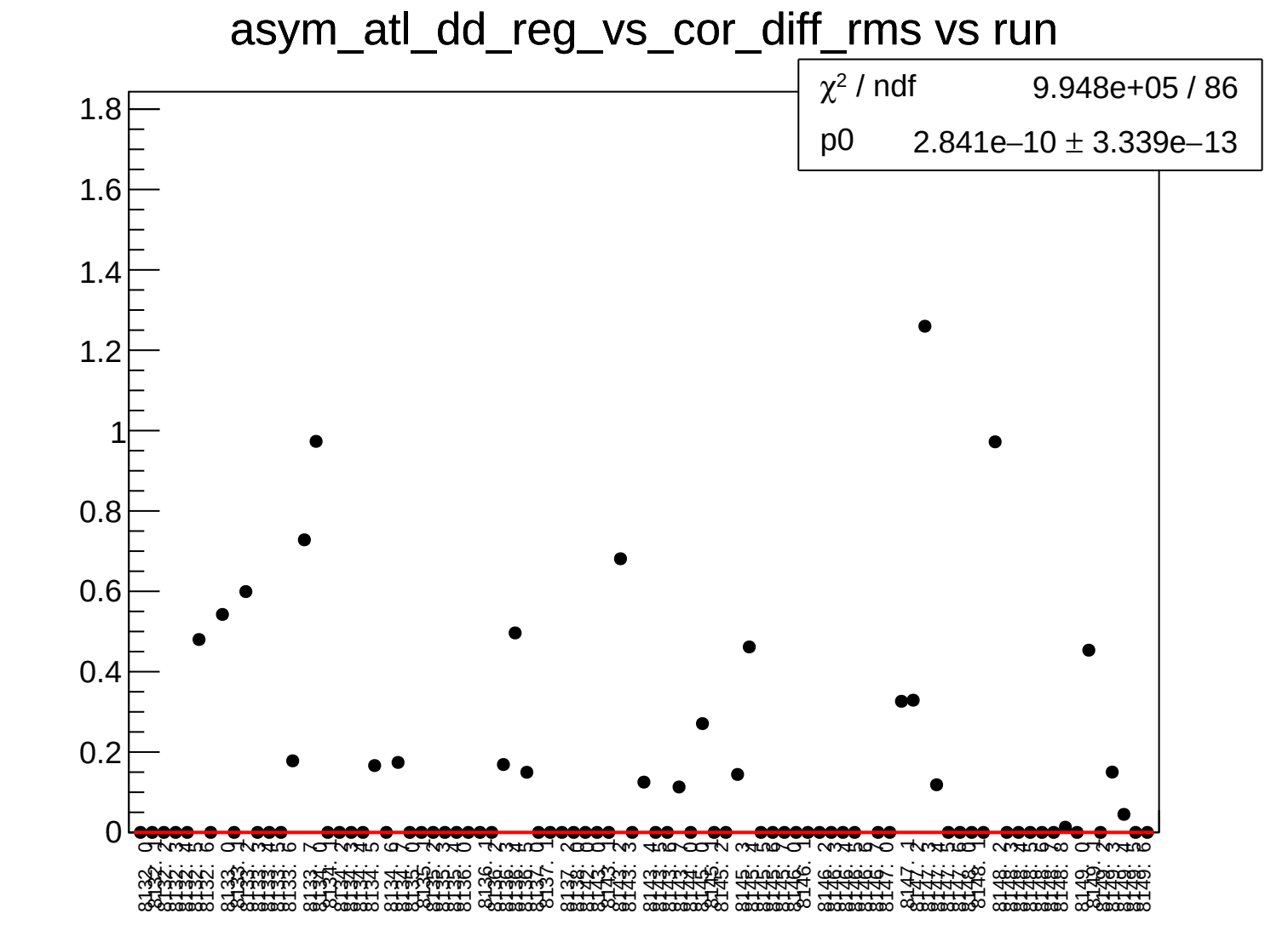

asym_atl_dd_mean vs run
×10^3
χ^2 / ndf 93.43 / 86
p0 170.7 ± 4946
pull
Entries 87
Mean −141.7
Std Dev 0

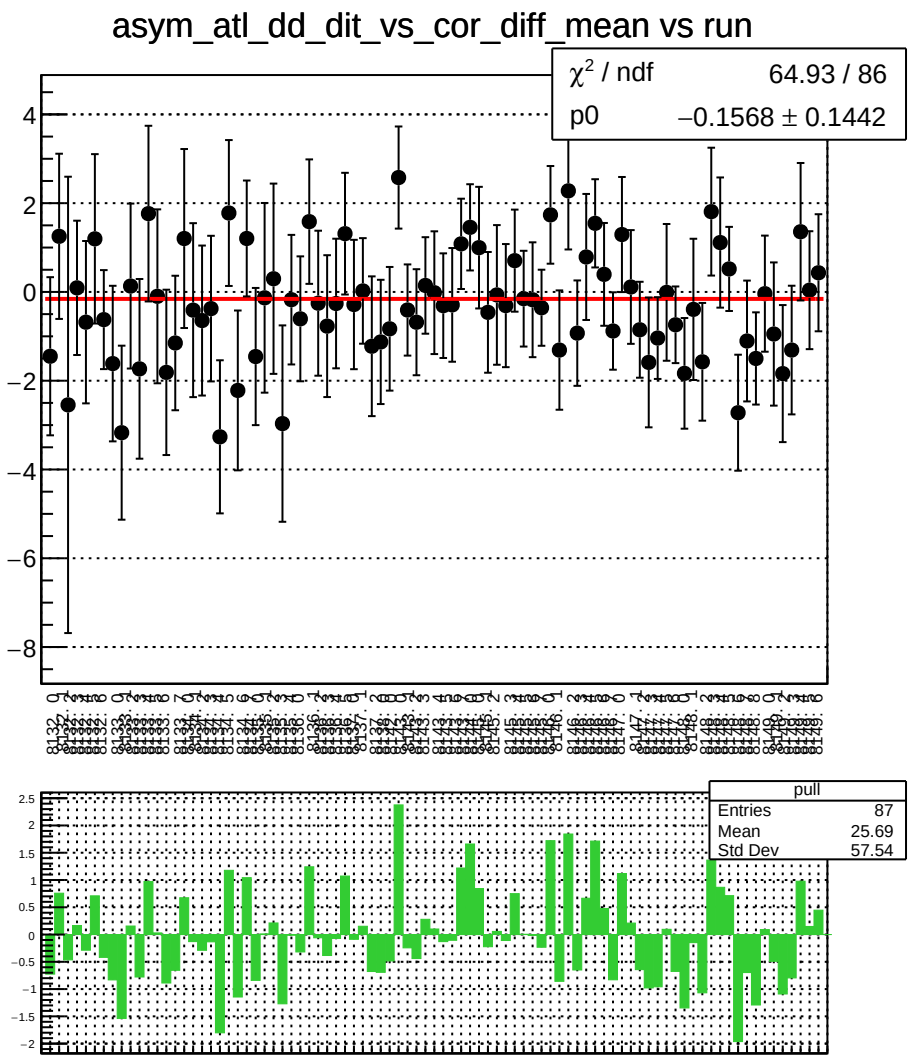

pull1D
Entries 87
Mean 0.01062
Std Dev 1.036

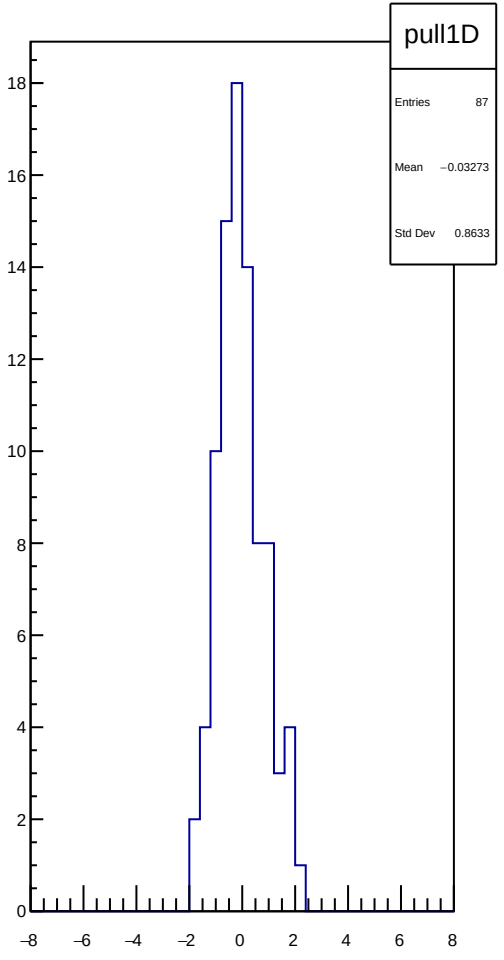
asym_atl_dd_rms vs run

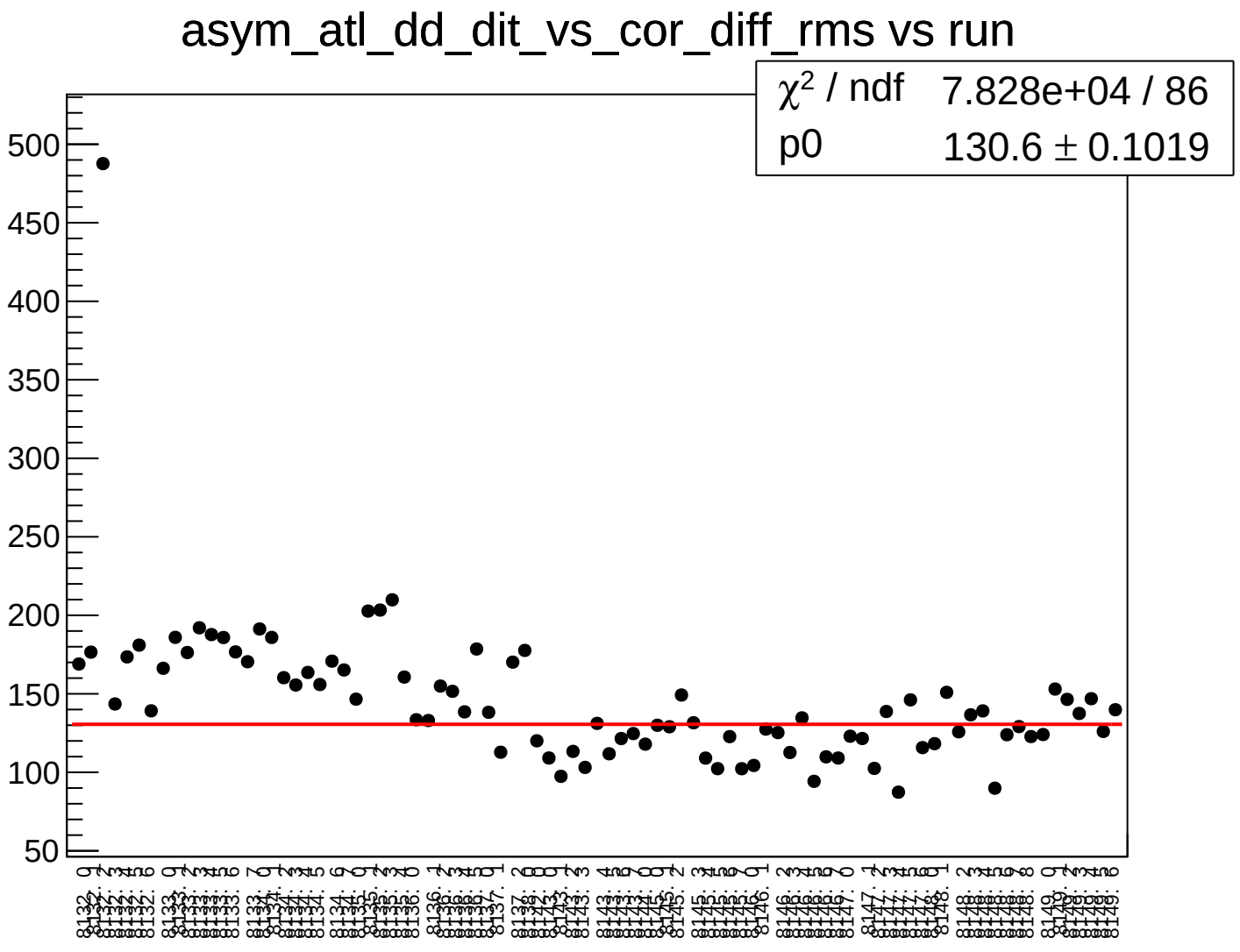


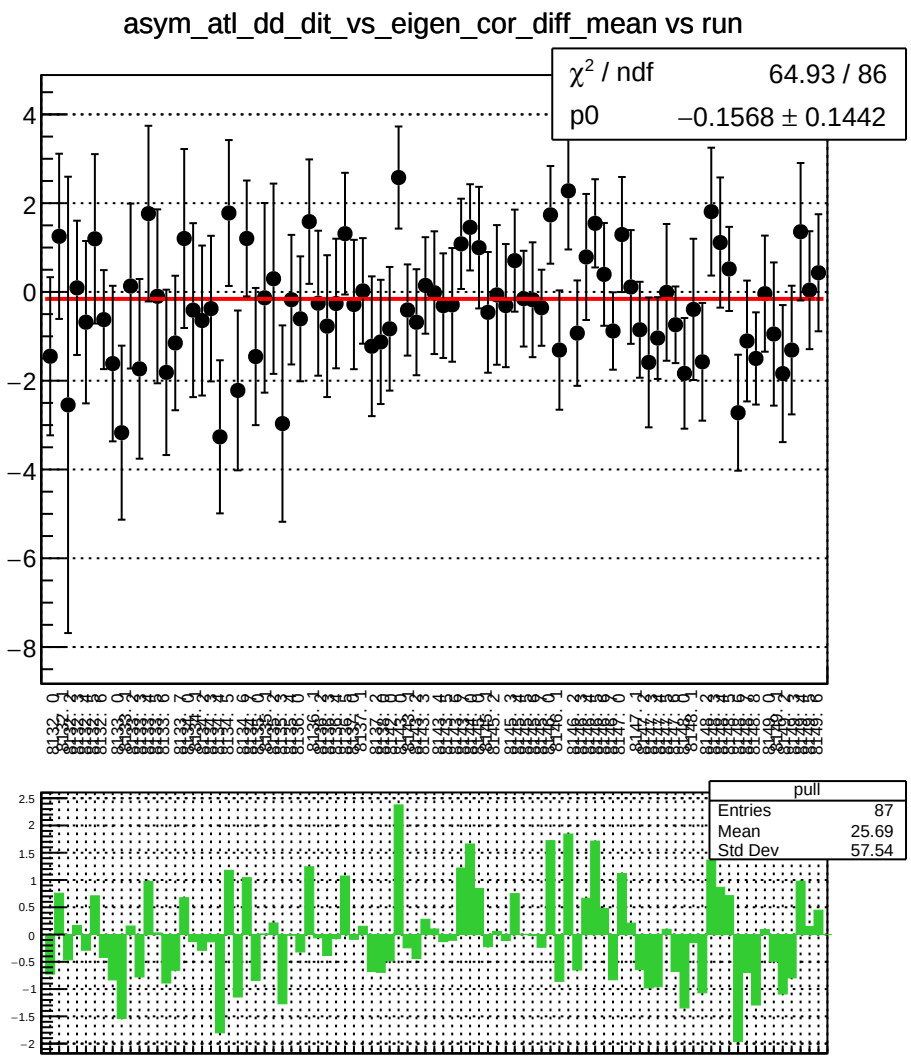

asym_atl_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 98.95 / 86
p0 −7.518e−13 ± 4.721e−13
pull
Entries 87
Mean 42.92
Std Dev 36.82
pull1D
Entries 87
Mean −0.08434
Std Dev 1.063

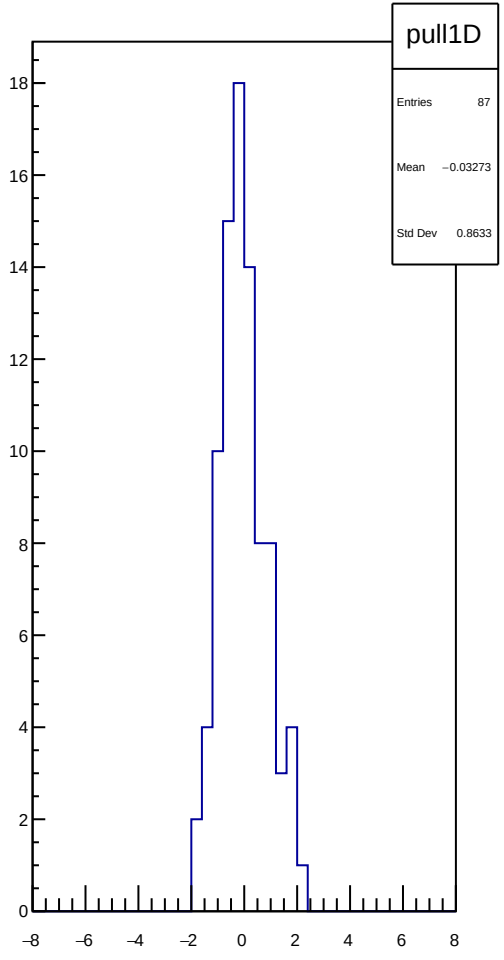

asym_atl_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.948e+05 / 86
p0 2.841e−10 ± 3.339e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

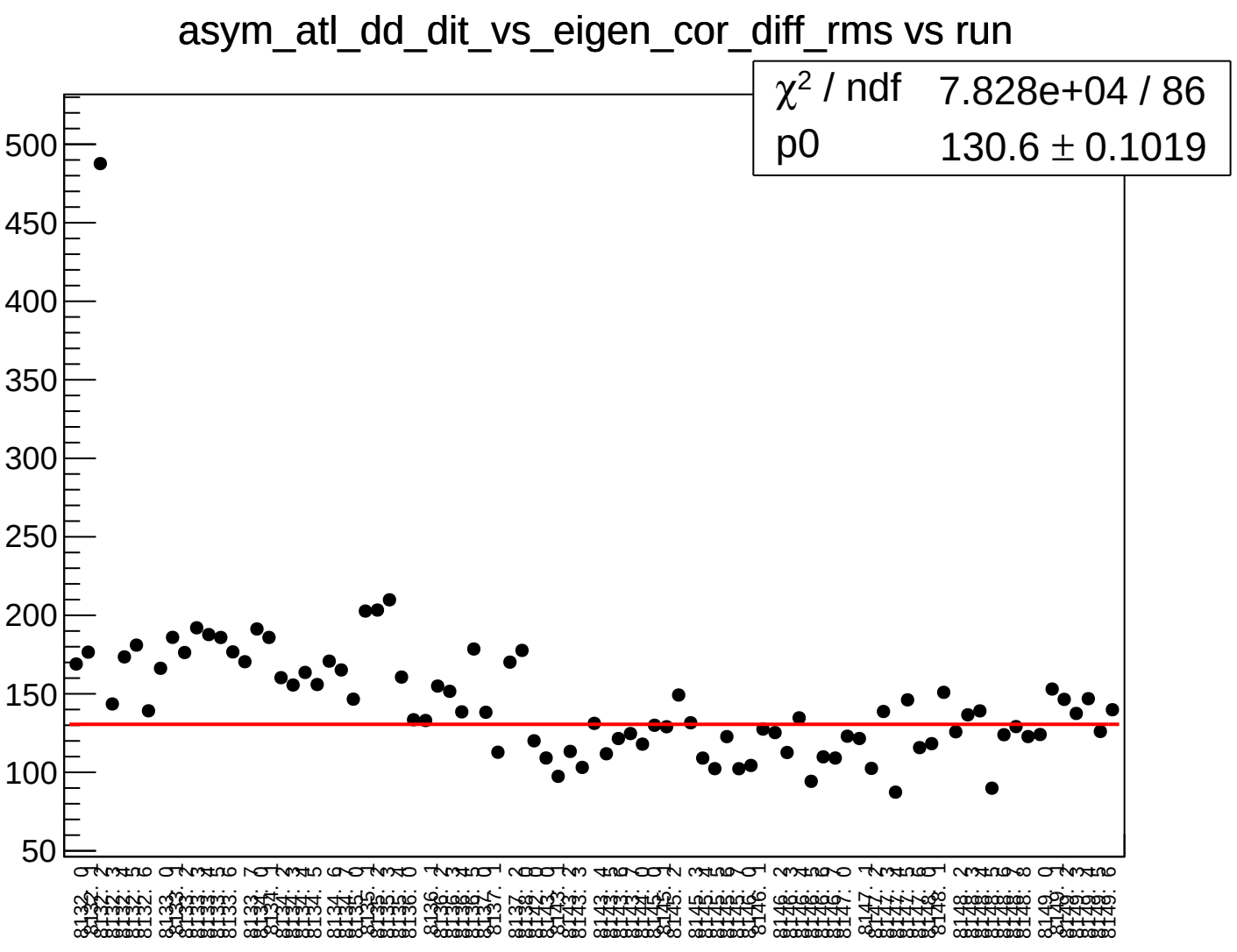

asym_atl_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 64.93 / 86
p0 −0.1568 ± 0.1442
pull
Entries 87
Mean 25.69
Std Dev 57.54

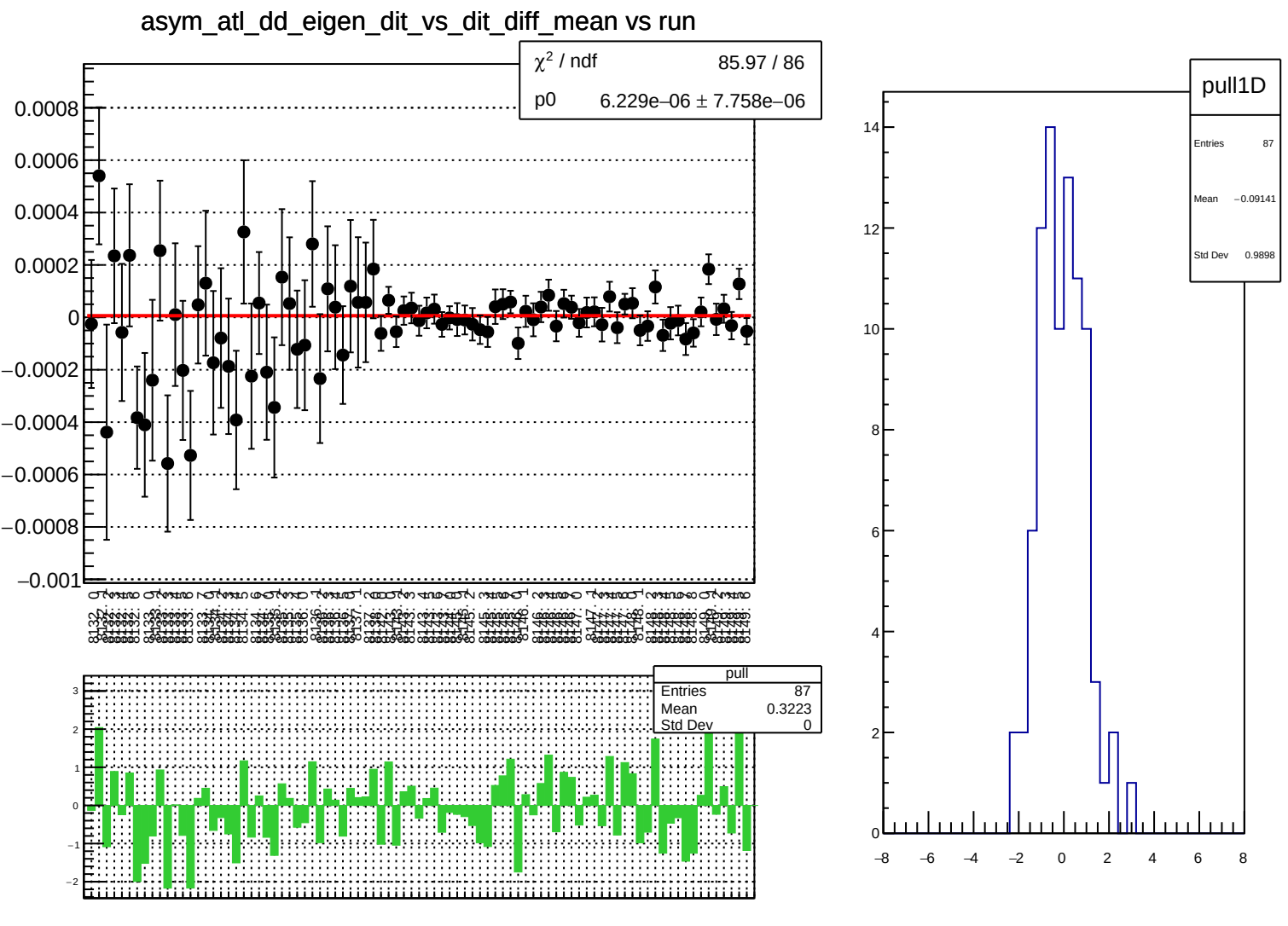

pull1D
Entries 87
Mean −0.03273
Std Dev 0.8633

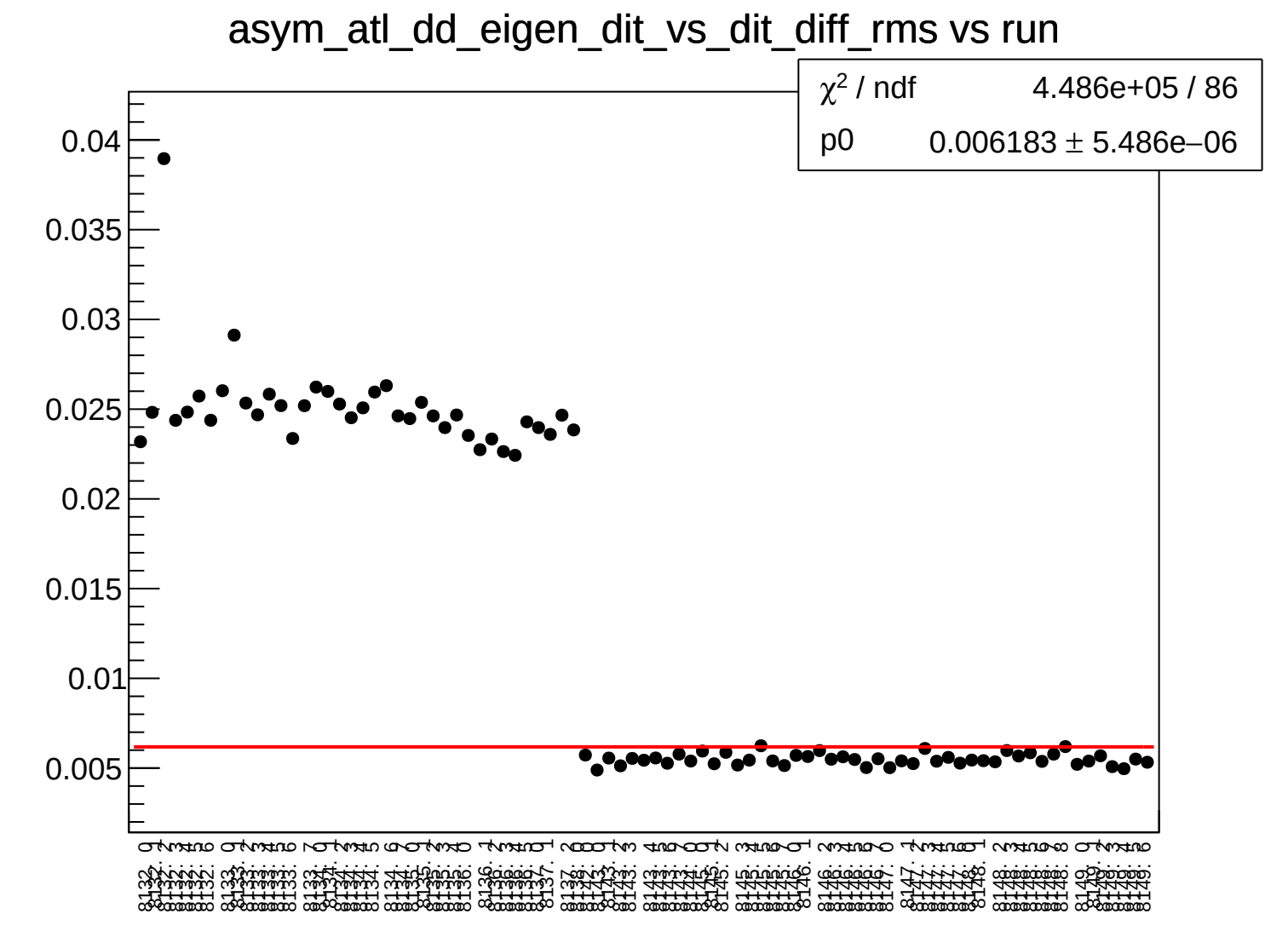

asym_atl_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.828e+04 / 86
p0 130.6 ± 0.1019
500
450
400
350
300
250
200
150
100
50

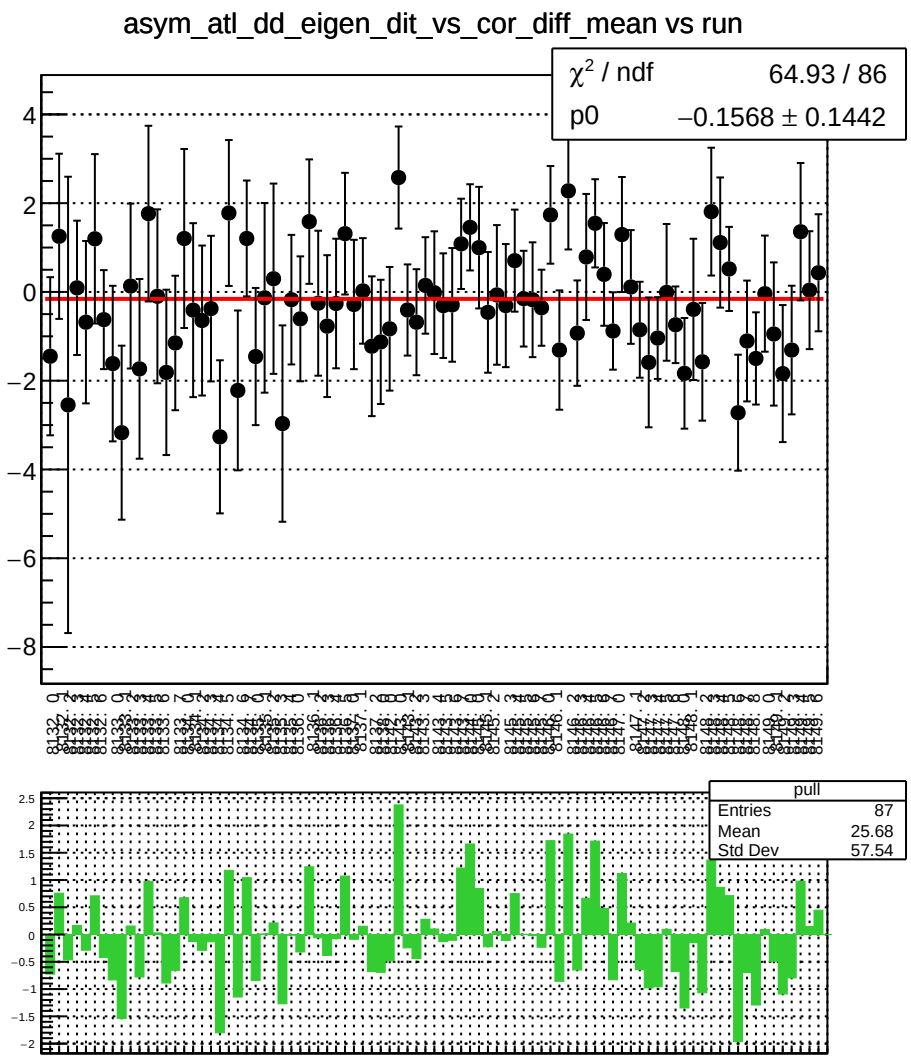

asym_atl_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 64.93 / 86
p0 −0.1568 ± 0.1442
pull
Entries 87
Mean 25.69
Std Dev 57.54

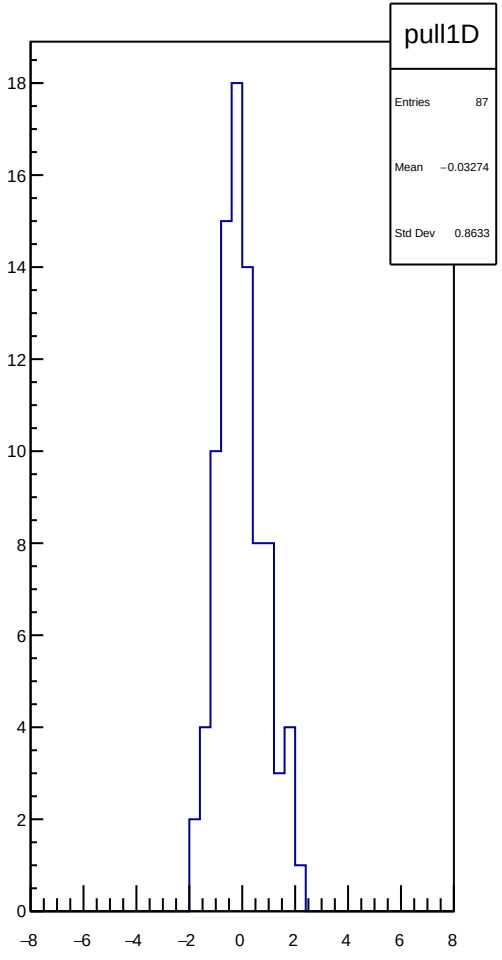

pull1D
Entries 87
Mean −0.03273
Std Dev 0.8633

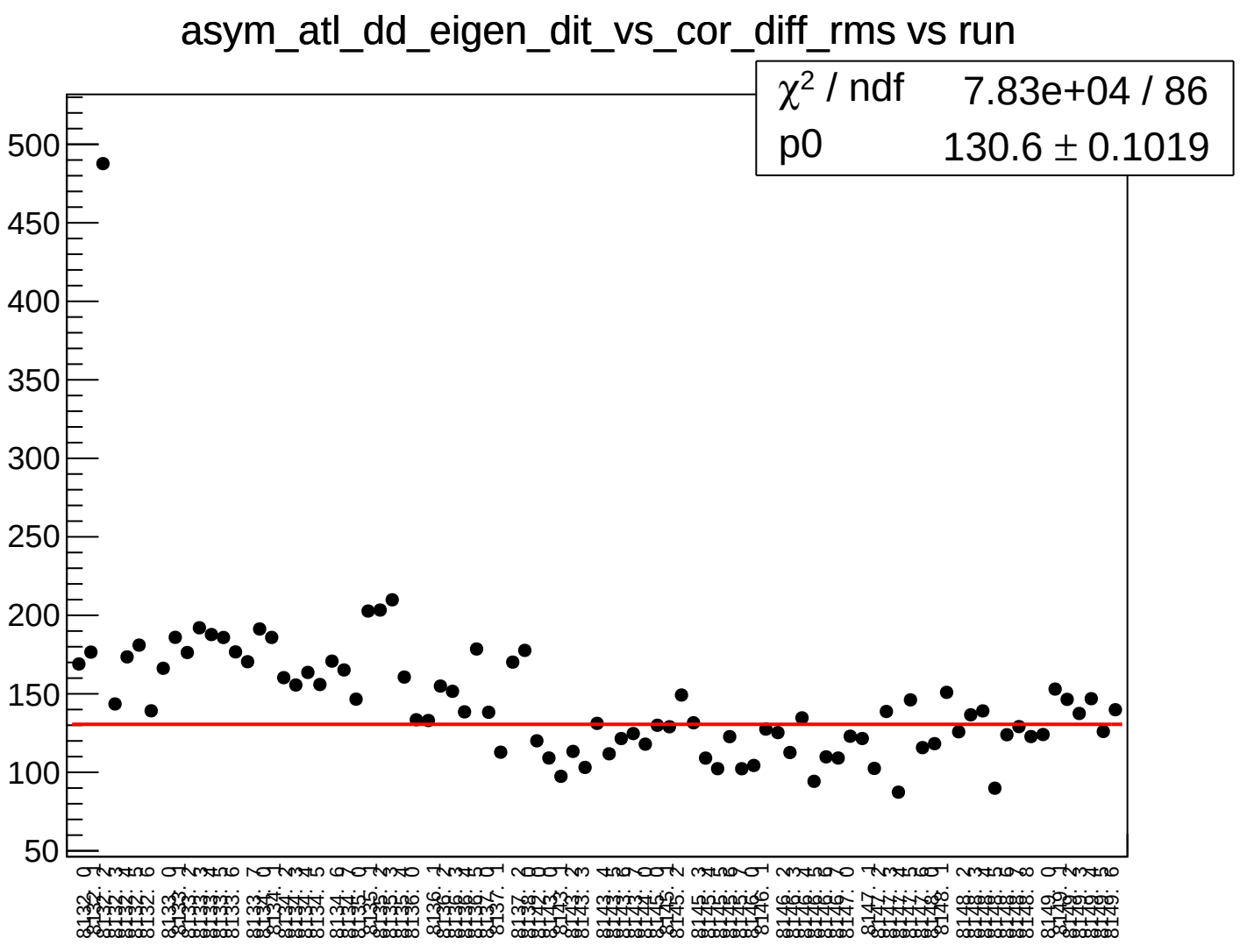

asym_atl_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.828e+04 / 86
p0 130.6 ± 0.1019
500
450
400
350
300
250
200
150
100
50

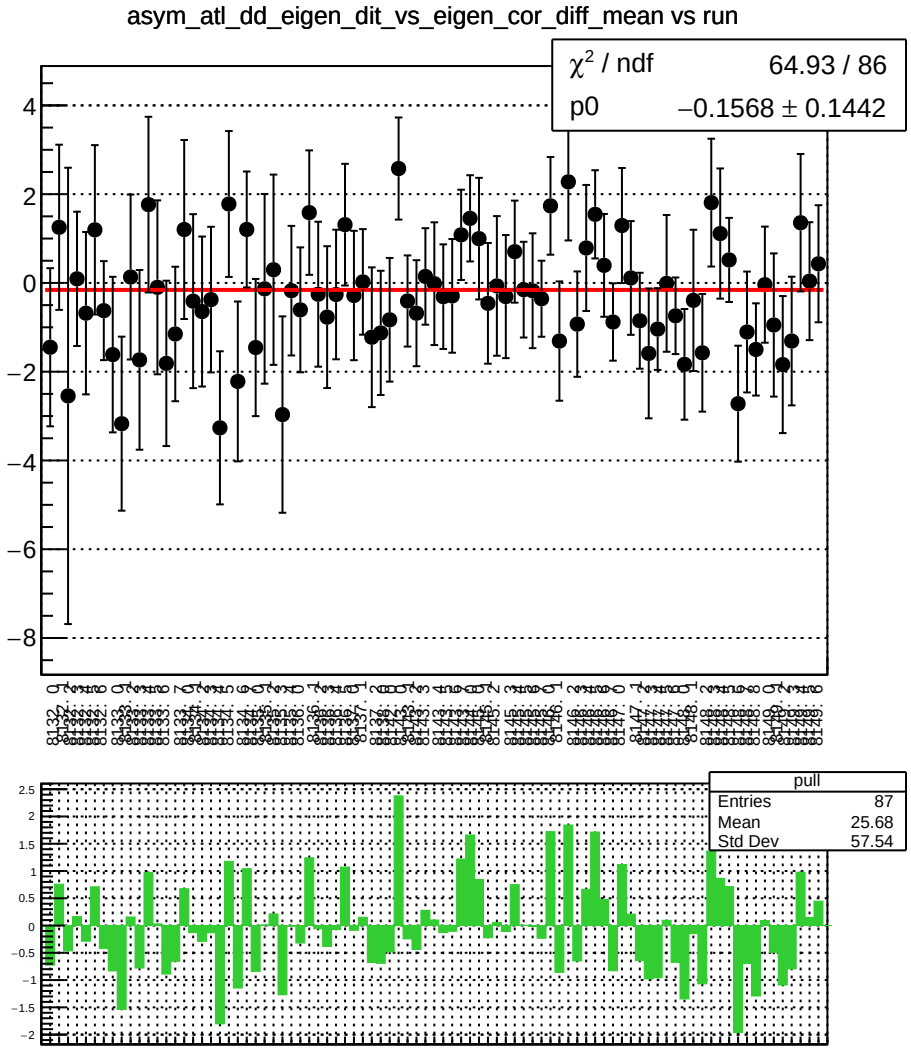

asym_atl_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 85.97 / 86
p0 6.229e−06 ± 7.758e−06
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 87
Mean 0.3223
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.09141
Std Dev 0.9898
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

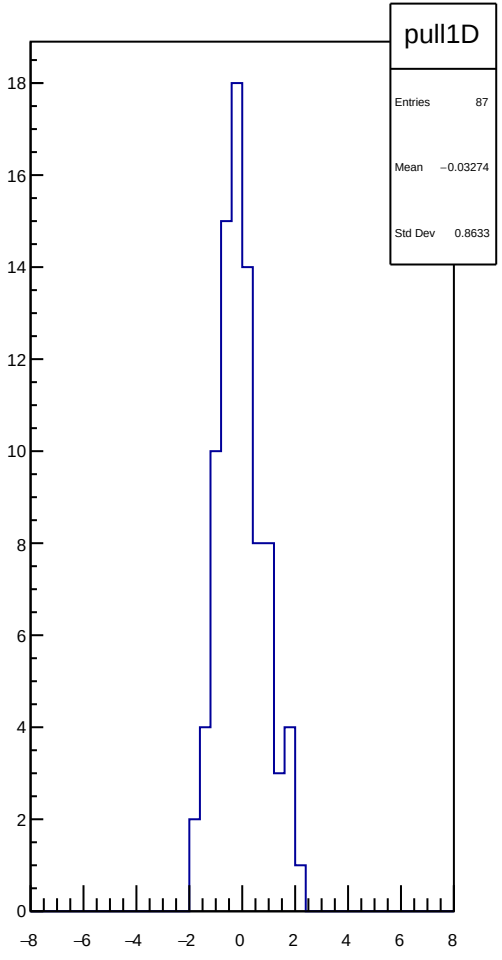

asym_atl_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.486e+05 / 86
p0 0.006183 ± 5.486e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

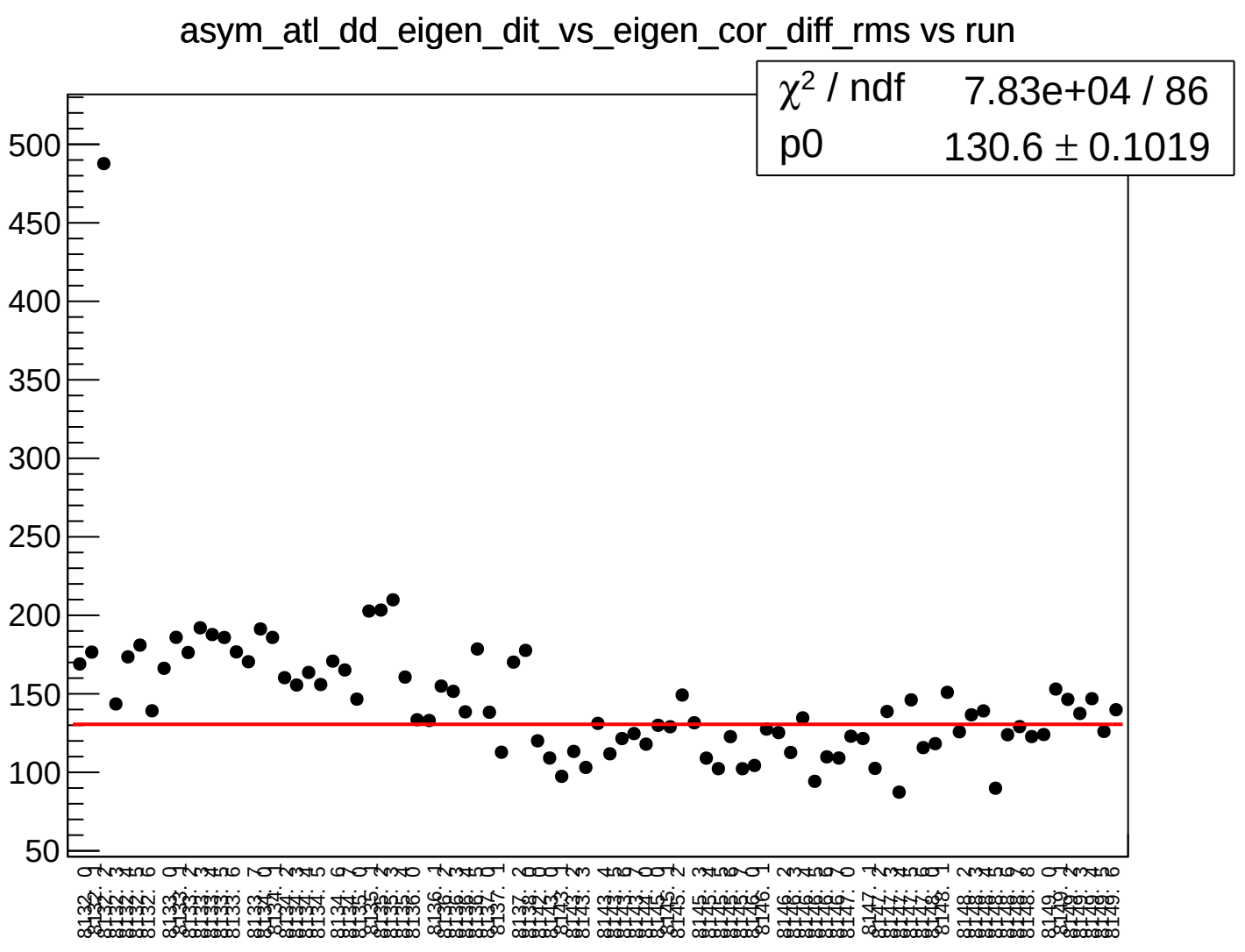

asym_atl_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 64.93 / 86
p0 −0.1568 ± 0.1442
pull
Entries 87
Mean 25.68
Std Dev 57.54

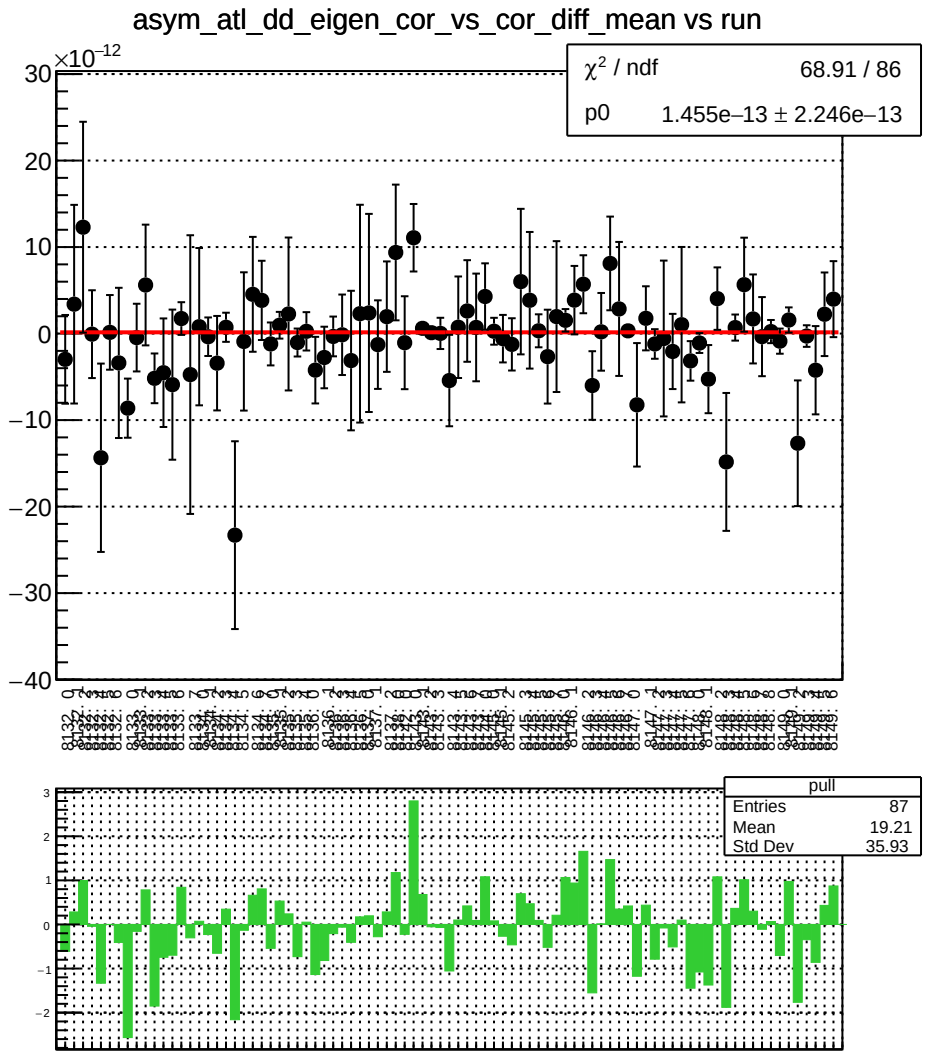

pull1D
Entries 87
Mean −0.03274
Std Dev 0.8633

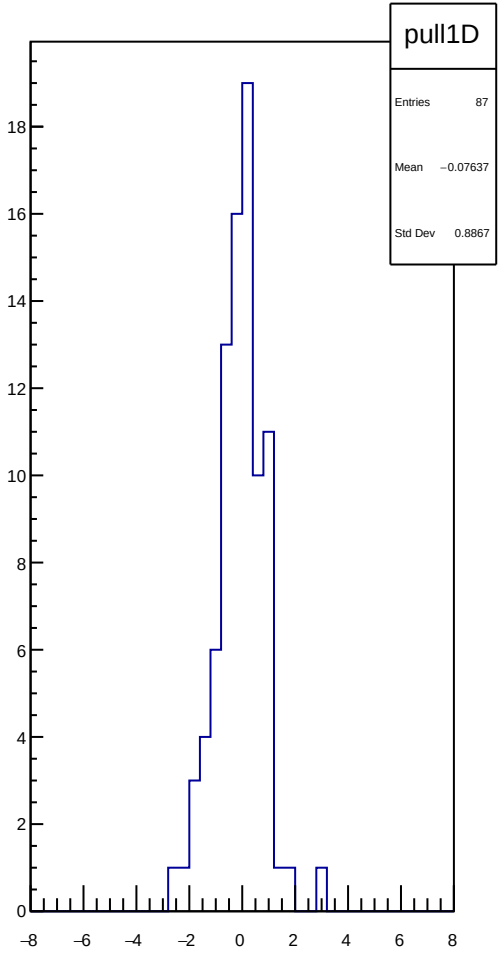

asym_atl_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.83e+04 / 86
p0 130.6 ± 0.1019
500
450
400
350
300
250
200
150
100
50

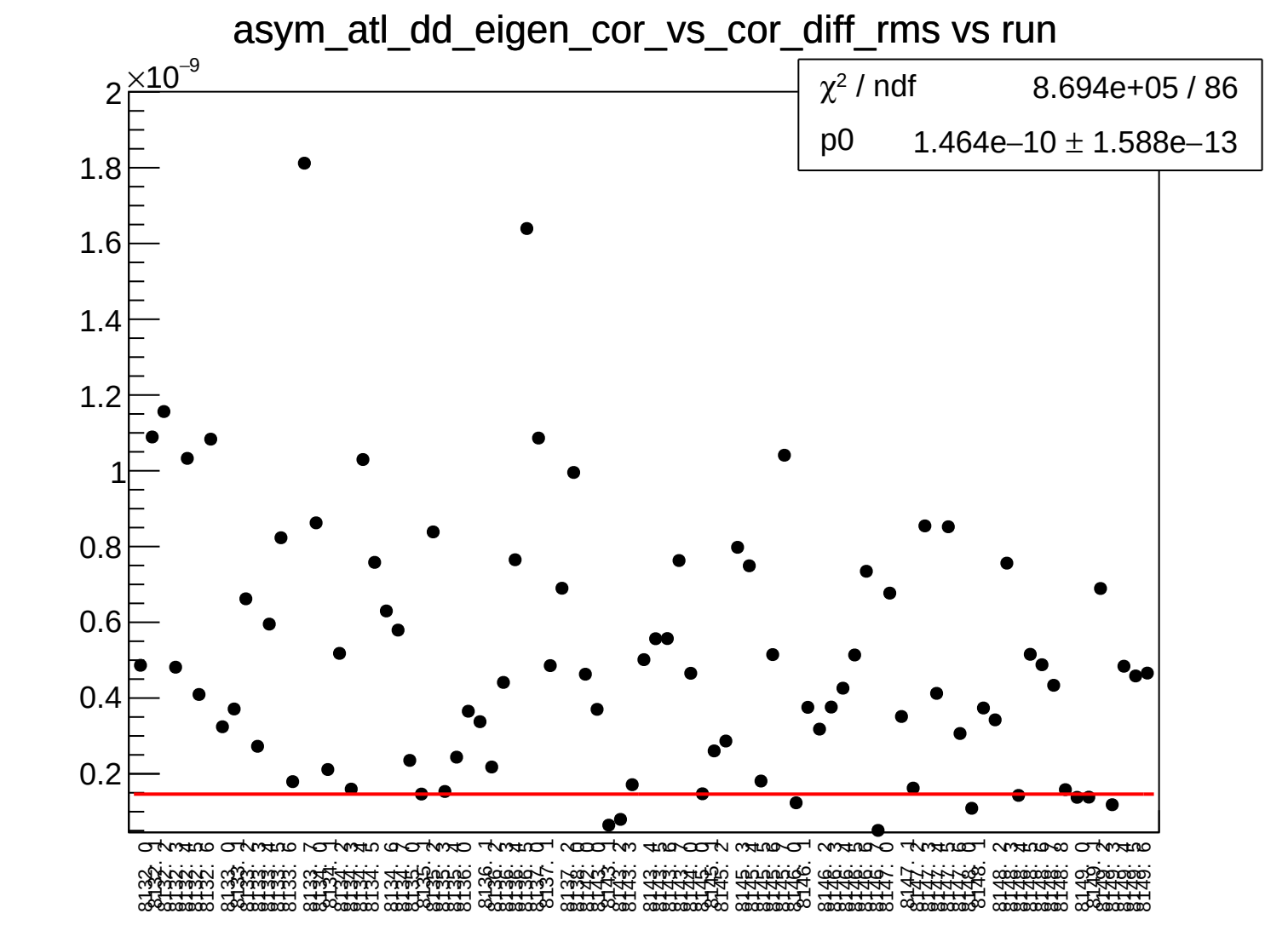

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 64.93 / 86
p0 −0.1568 ± 0.1442
pull
Entries 87
Mean 25.68
Std Dev 57.54

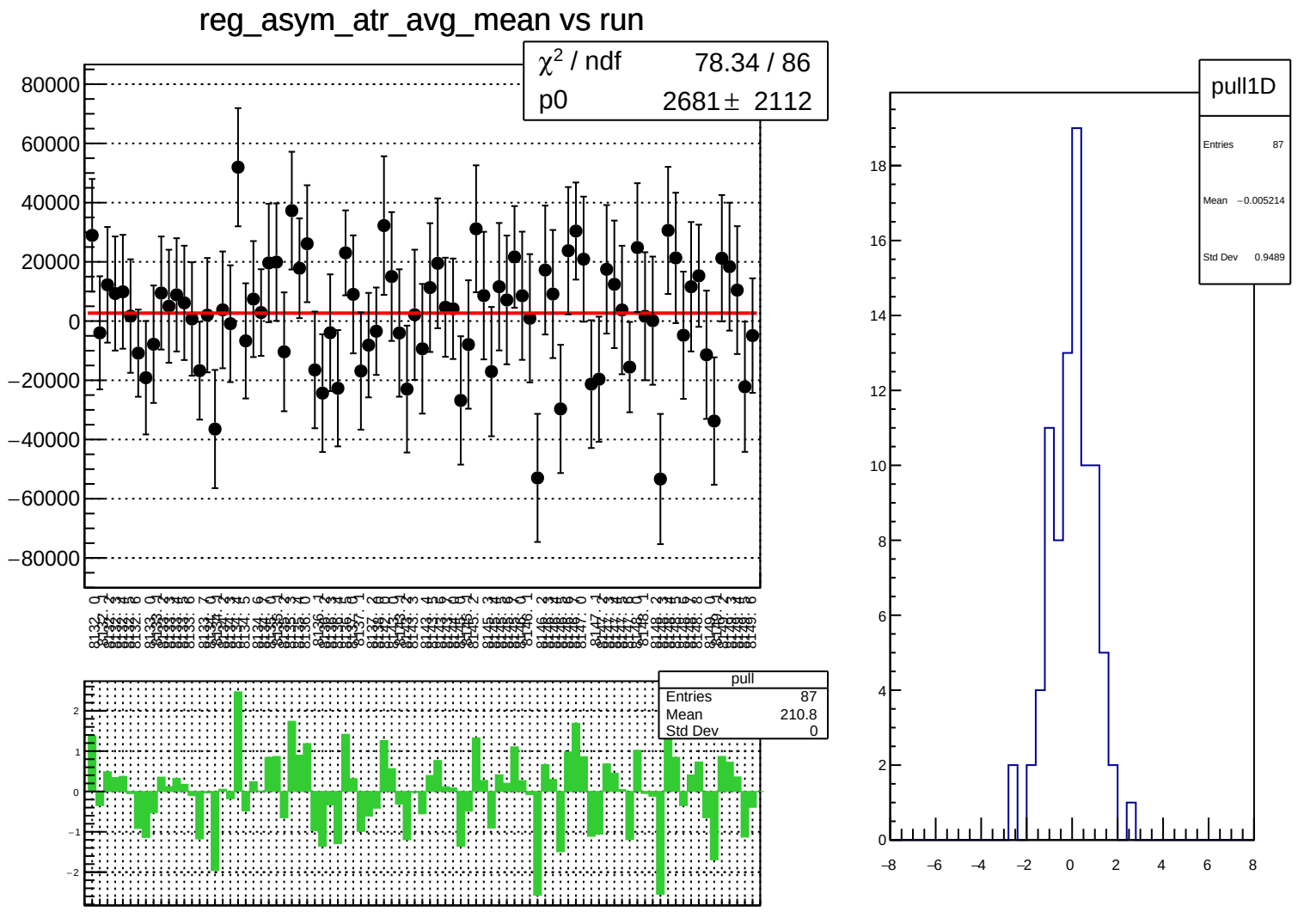

pull1D
Entries 87
Mean −0.03274
Std Dev 0.8633

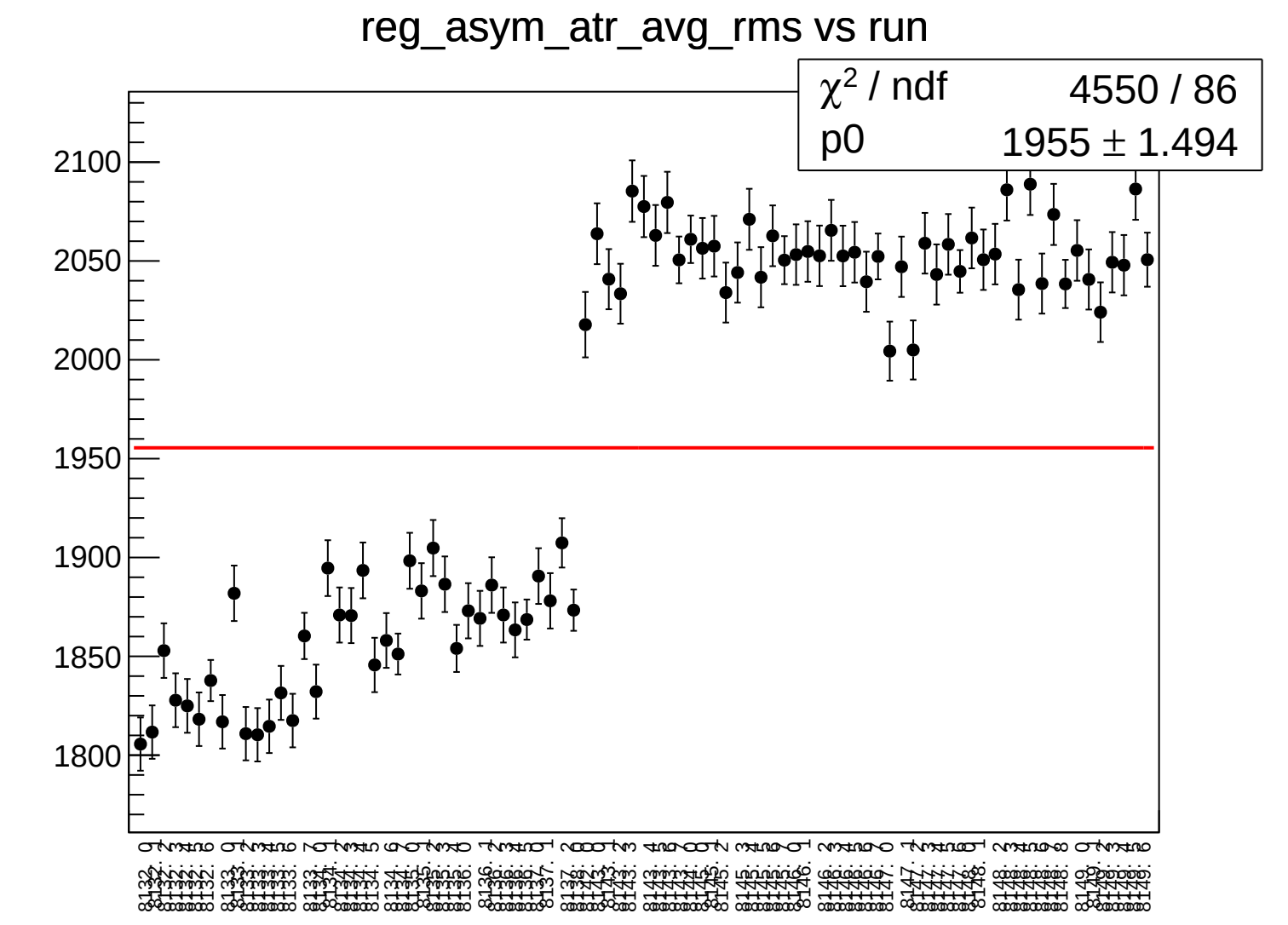

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.83e+04 / 86
p0 130.6 ± 0.1019
500
450
400
350
300
250
200
150
100
50

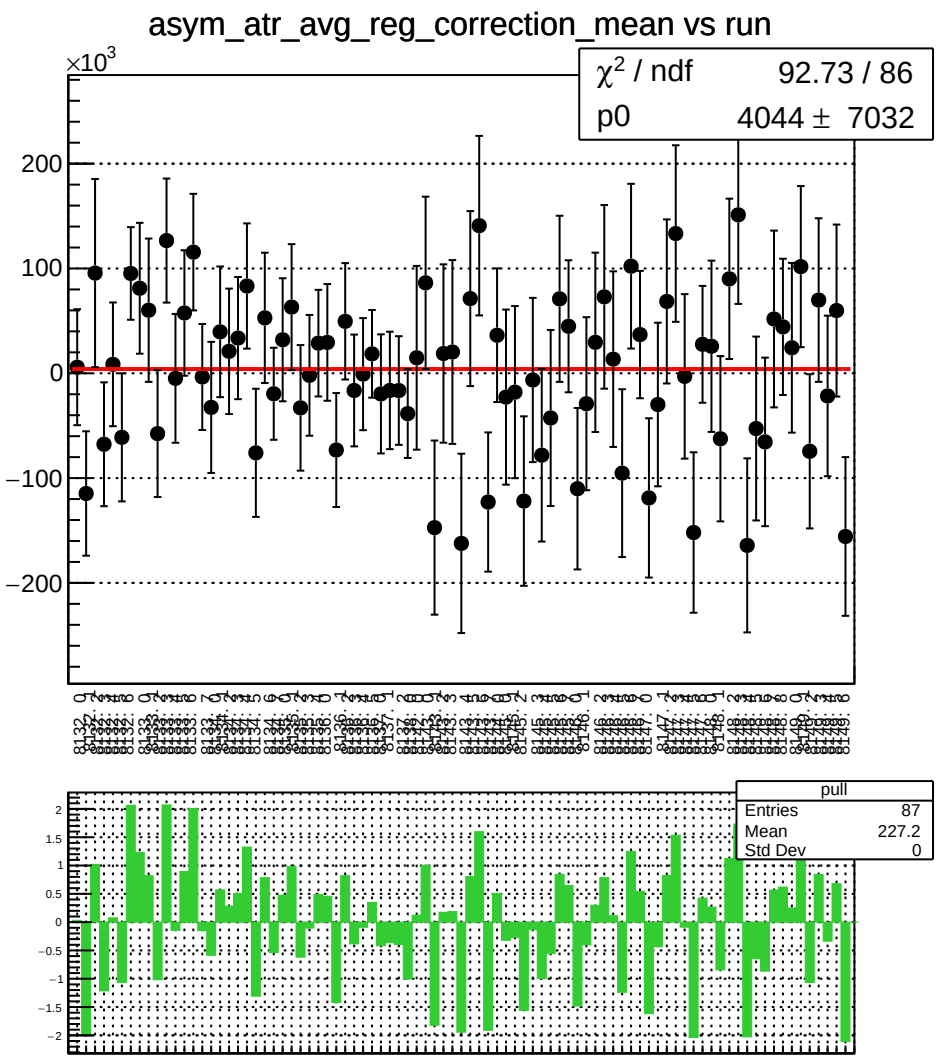

asym_atl_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 68.91 / 86
p0 1.455e−13 ± 2.246e−13
pull
Entries 87
Mean 19.21
Std Dev 35.93

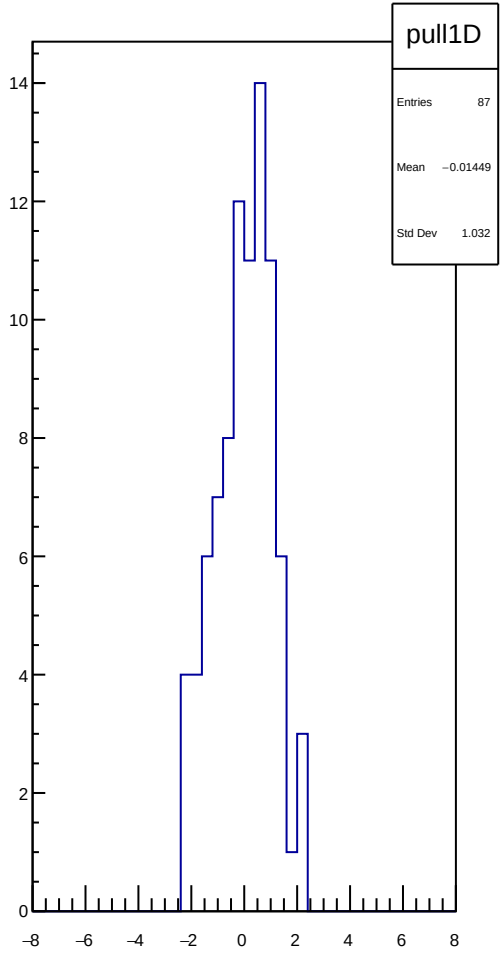

pull1D
Entries 87
Mean −0.07637
Std Dev 0.8867

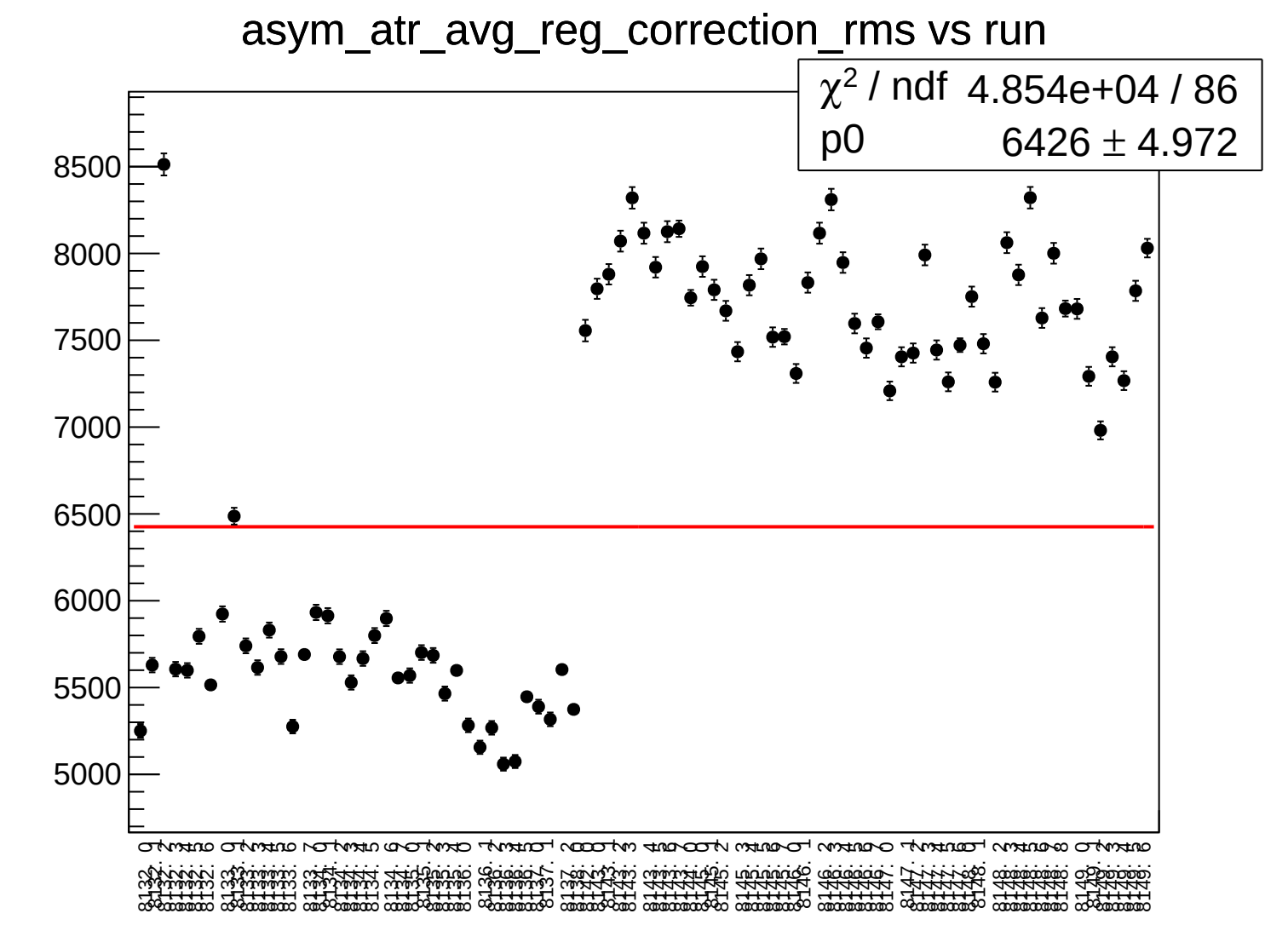

asym_atl_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.694e+05 / 86
p0 1.464e−10 ± 1.588e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

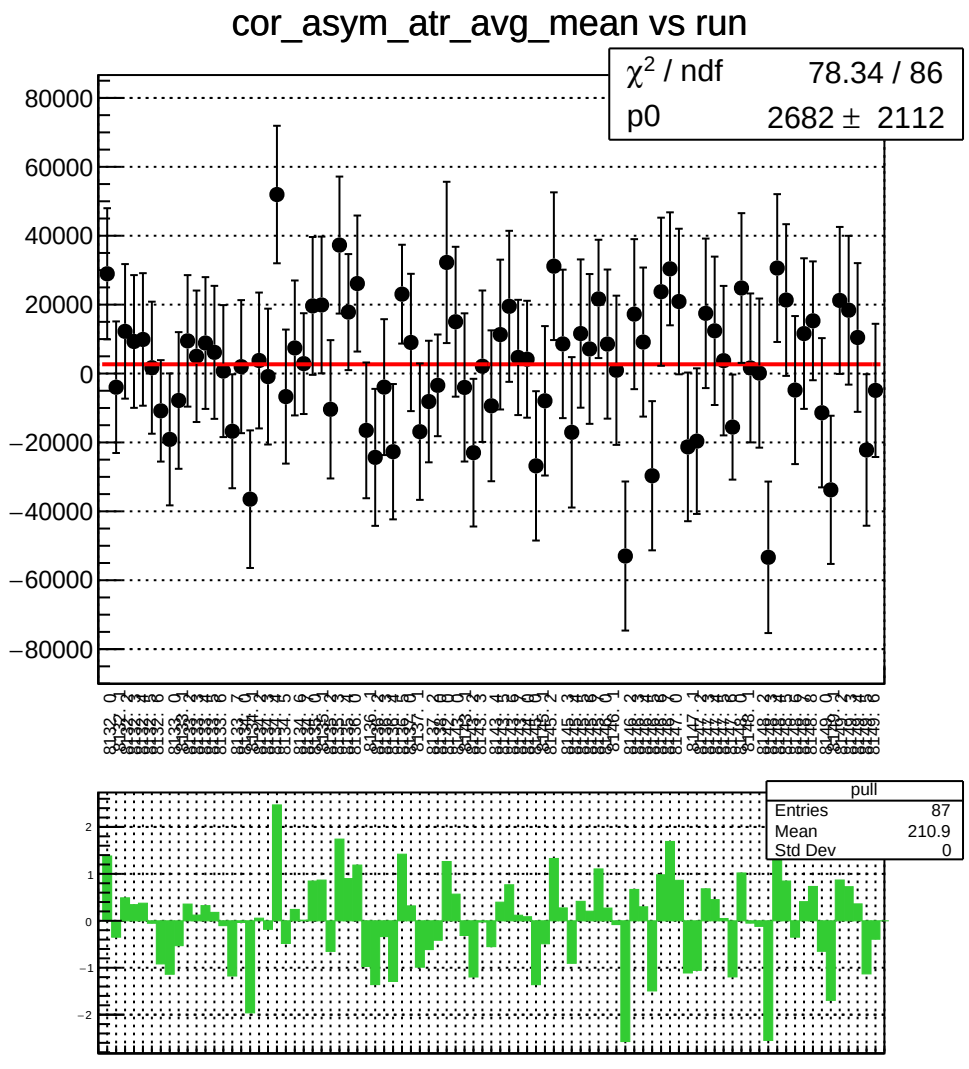

reg_asym_atr_avg_mean vs run
χ² / ndf 78.34 / 86
p0 2681 ± 2112
pull
Entries 87
Mean 210.8
Std Dev 0
pull1D
Entries 87
Mean −0.005214
Std Dev 0.9489

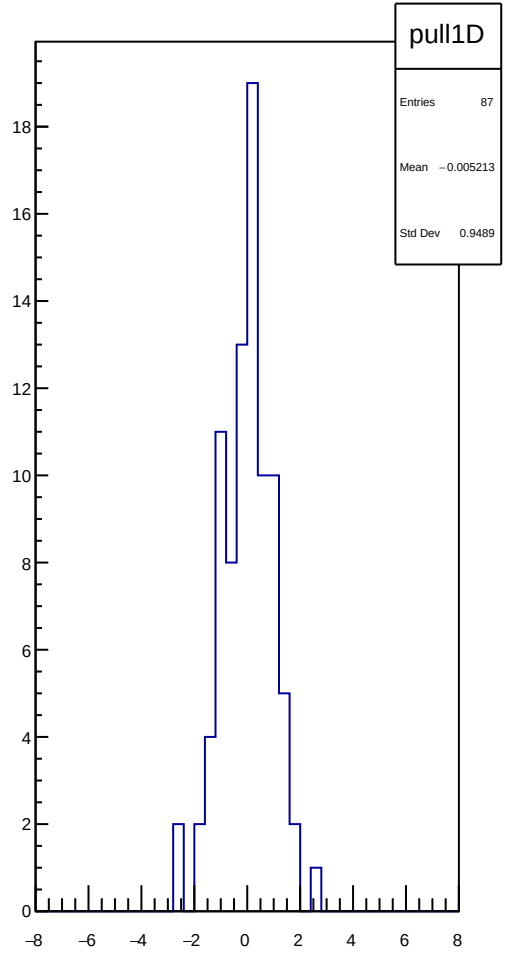

reg_asym_atr_avg_rms vs run
χ² / ndf 4550 / 86
p0 1955 ± 1.494
2100
2050
2000
1950
1900
1850
1800

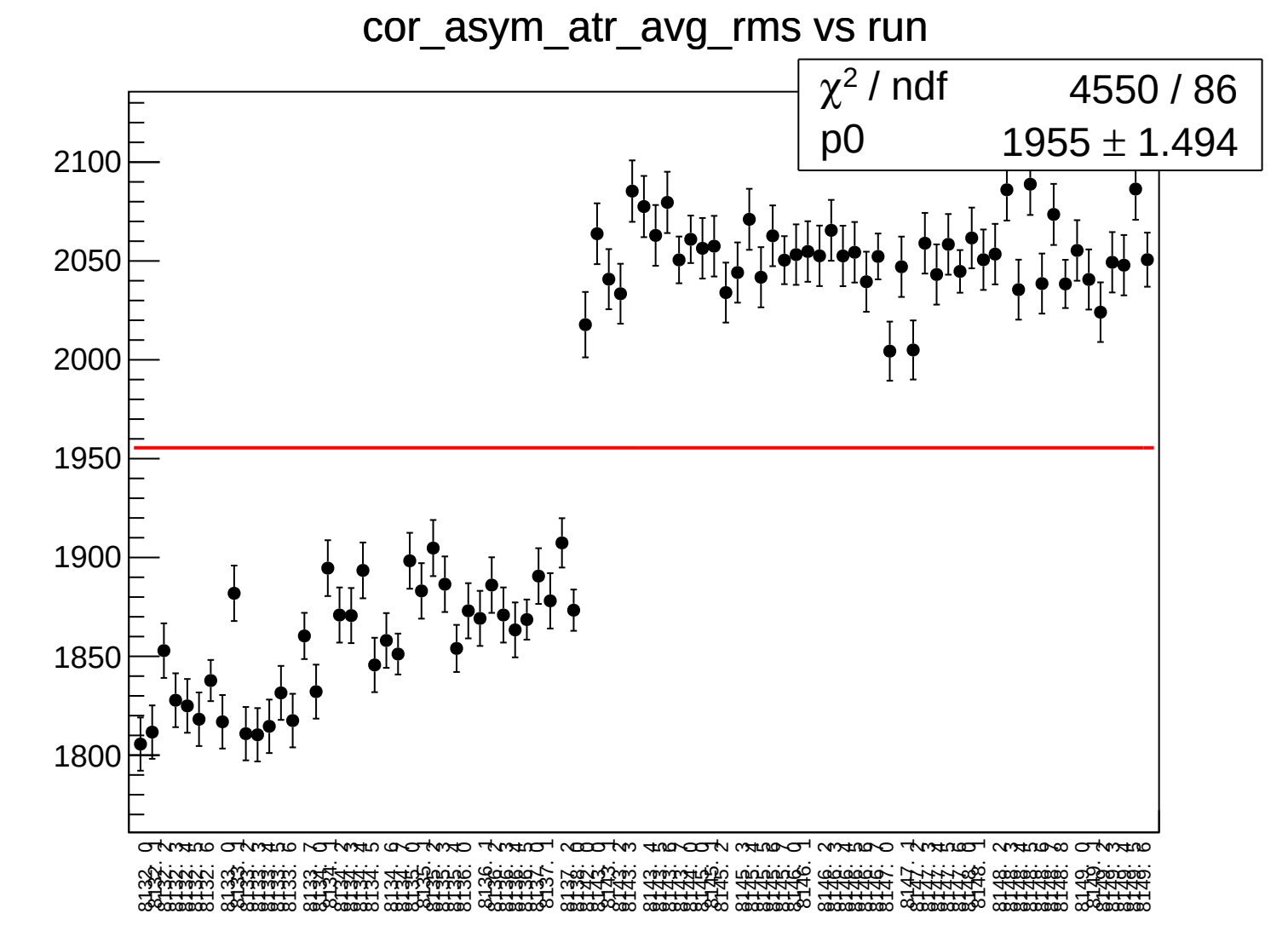

asym_atr_avg_reg_correction_mean vs run
×10^3
χ² / ndf 92.73 / 86
p0 4044 ± 7032
200
100
0
−100
−200
pull
Entries 87
Mean 227.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

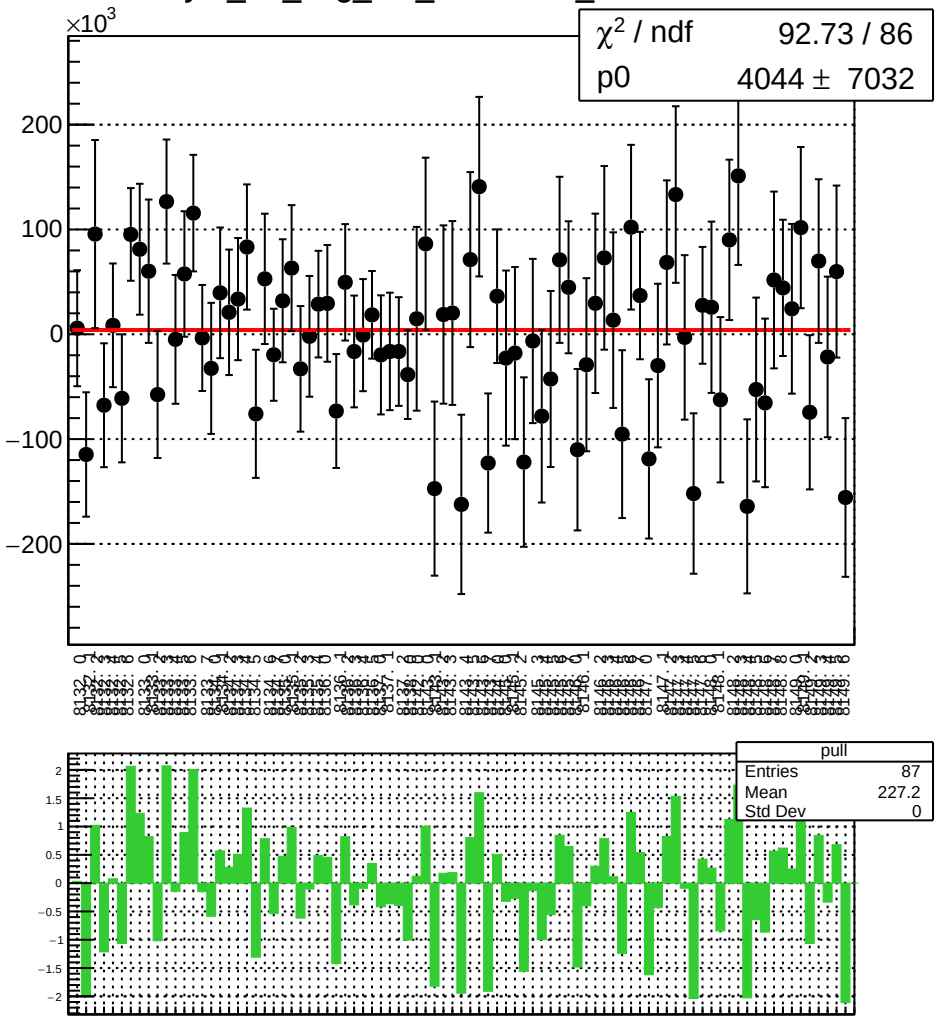

pull1D
Entries 87
Mean −0.01449
Std Dev 1.032
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

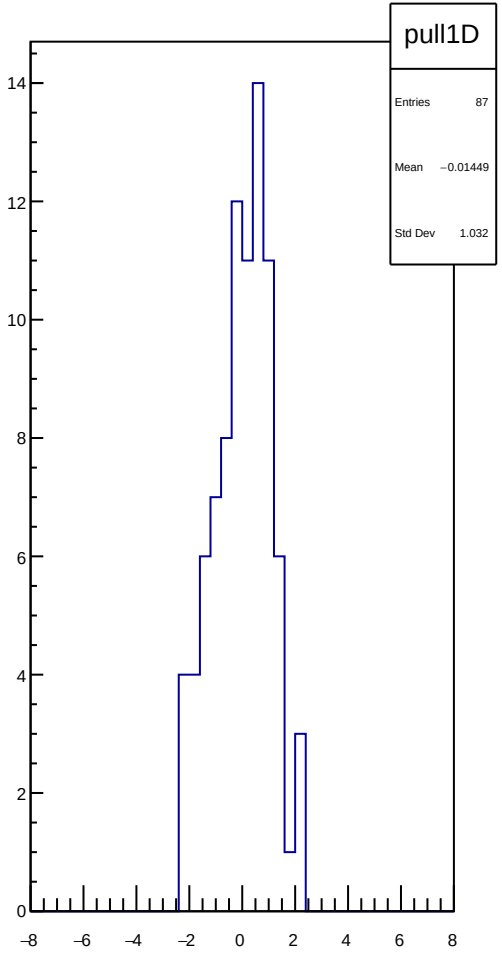

asym_atr_avg_reg_correction_rms vs run
χ² / ndf 4.854e+04 / 86
p0 6426 ± 4.972
8500
8000
7500
7000
6500
6000
5500
5000

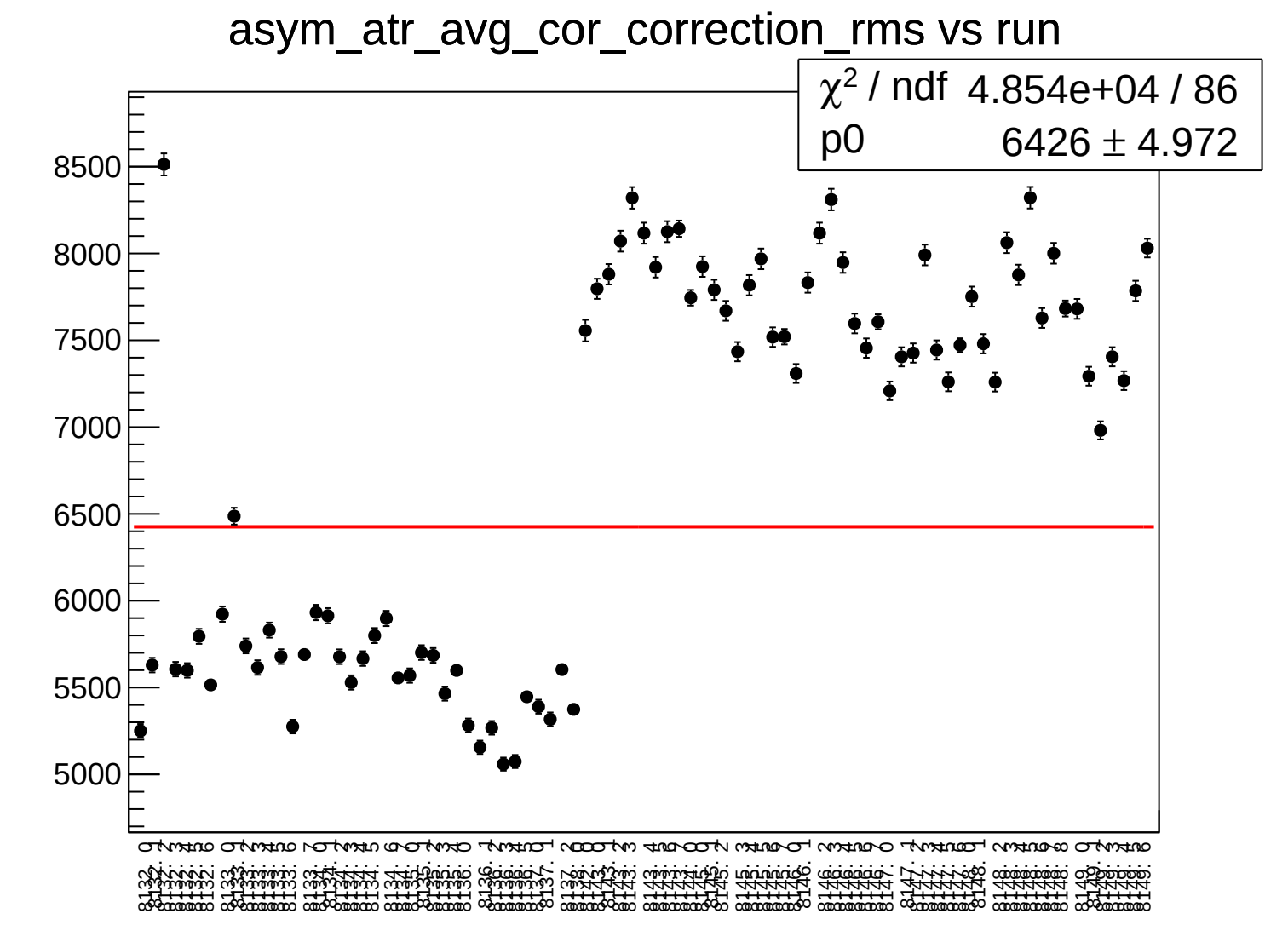

cor_asym_atr_avg_mean vs run
χ² / ndf 78.34 / 86
p0 2682 ± 2112
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean 210.9
Std Dev 0
2
1
0
−1
−2

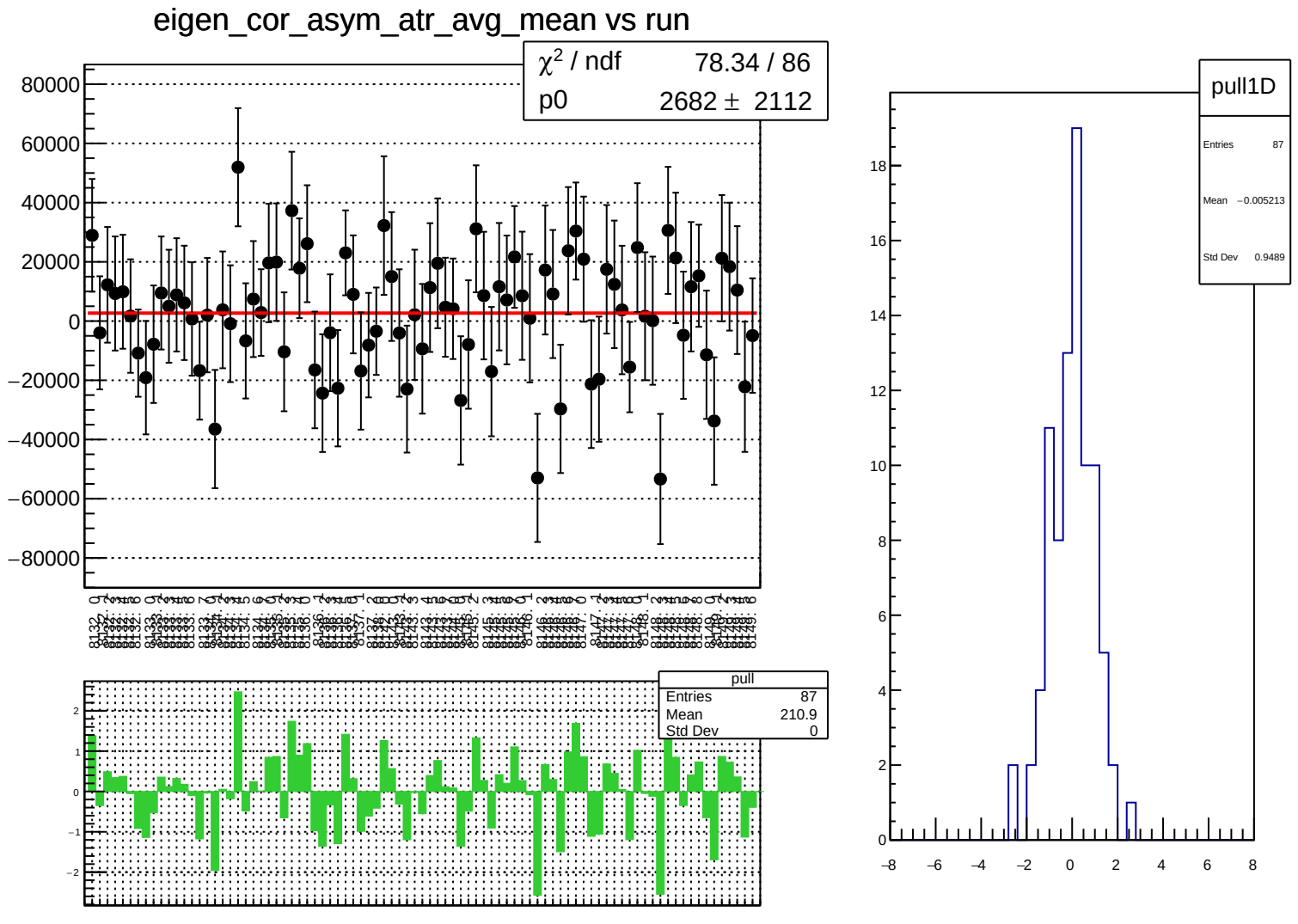

pull1D
Entries 87
Mean −0.005213
Std Dev 0.9489
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

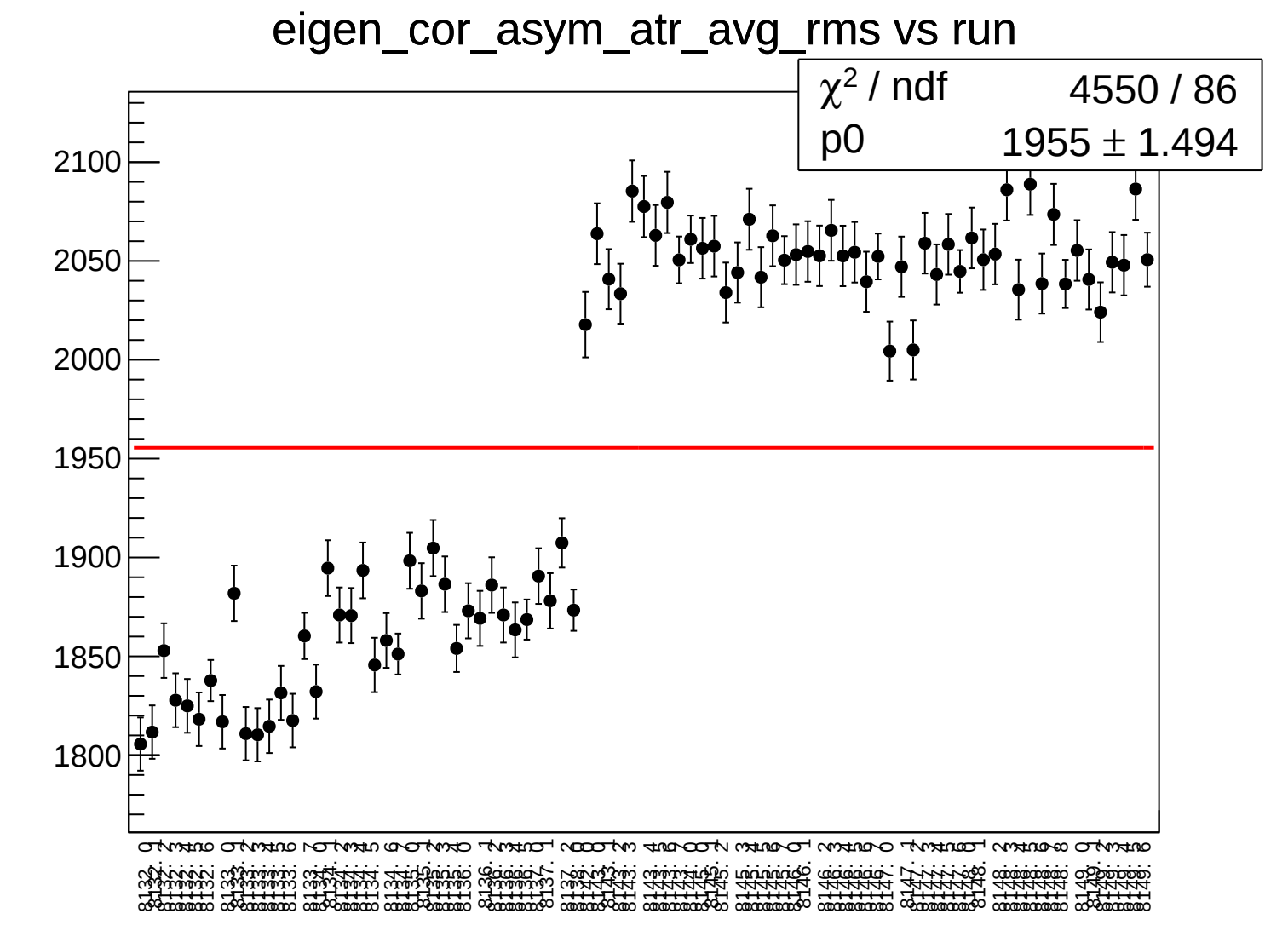

cor_asym_atr_avg_rms vs run
χ² / ndf 4550 / 86
p0 1955 ± 1.494
2100
2050
2000
1950
1900
1850
1800

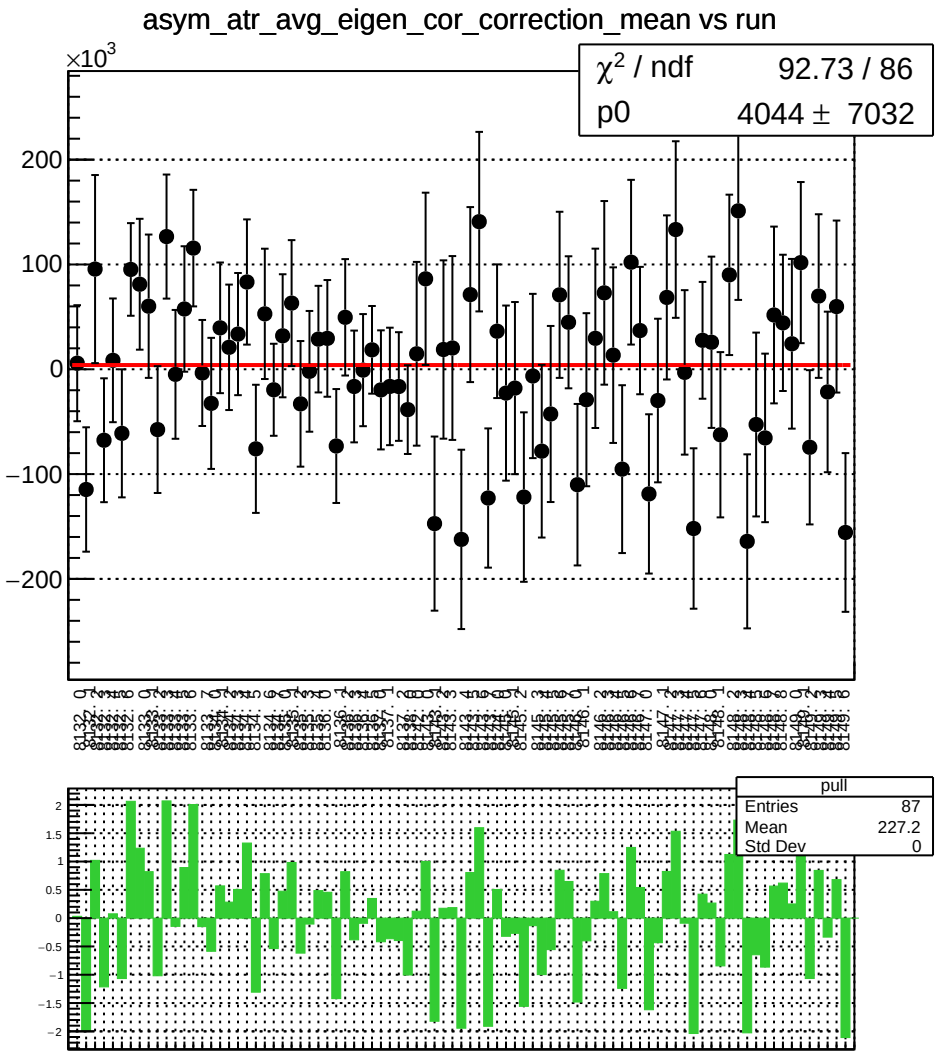

asym_atr_avg_cor_correction_mean vs run
χ² / ndf 92.73 / 86
p0 4044 ± 7032
×10³
pull
Entries 87
Mean 227.2
Std Dev 0

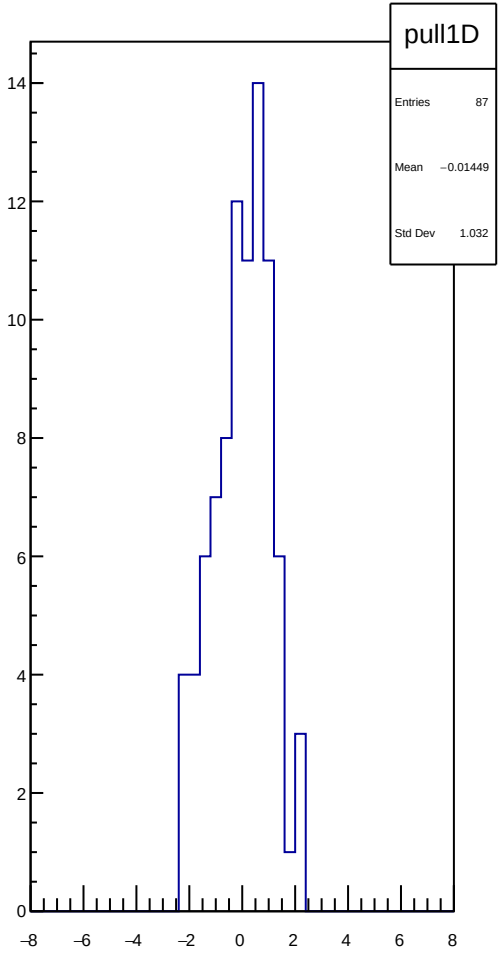

pull1D
Entries 87
Mean −0.01449
Std Dev 1.032

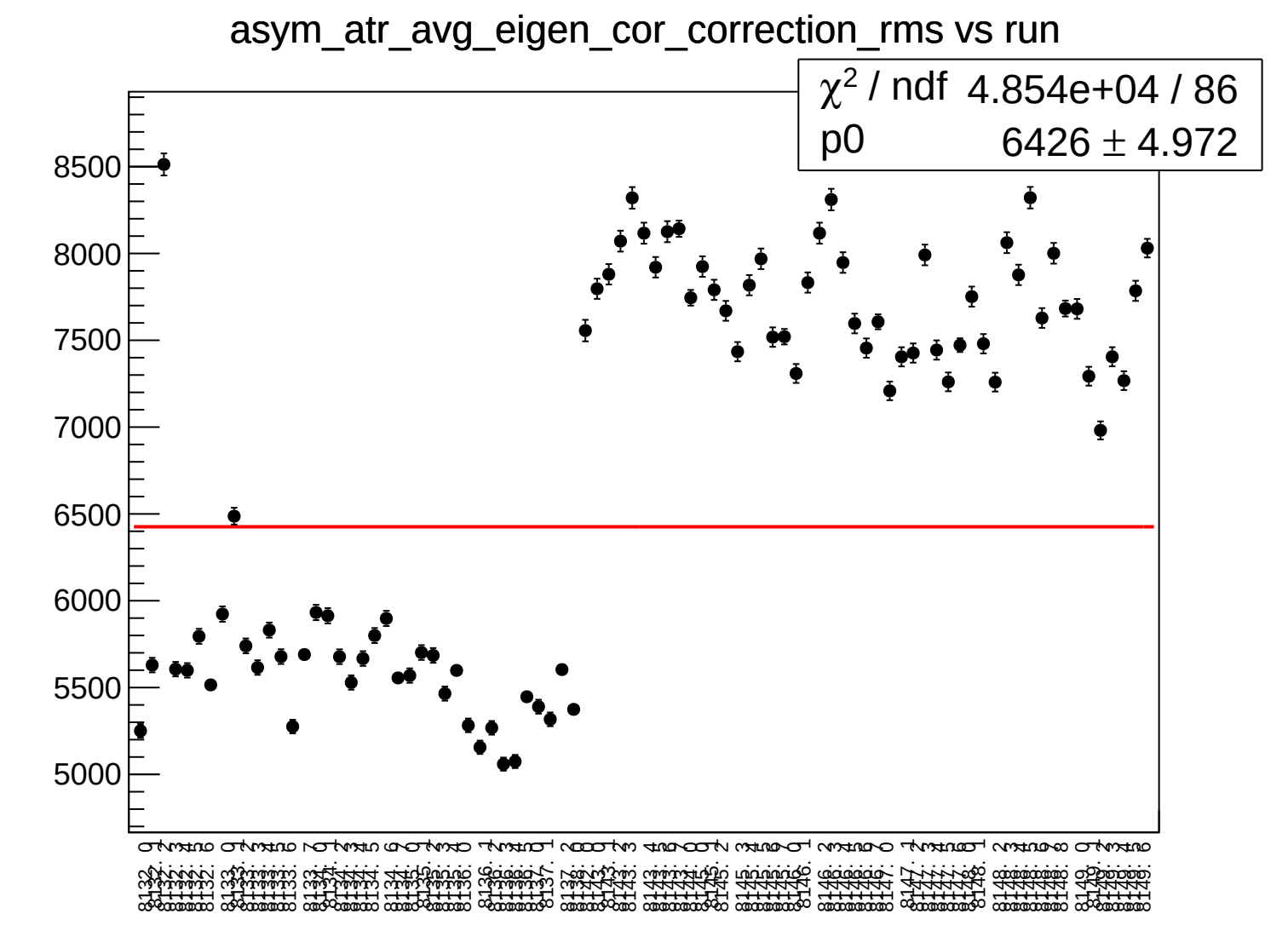

asym_atr_avg_cor_correction_rms vs run
χ² / ndf 4.854e+04 / 86
p0 6426 ± 4.972
8500
8000
7500
7000
6500
6000
5500
5000

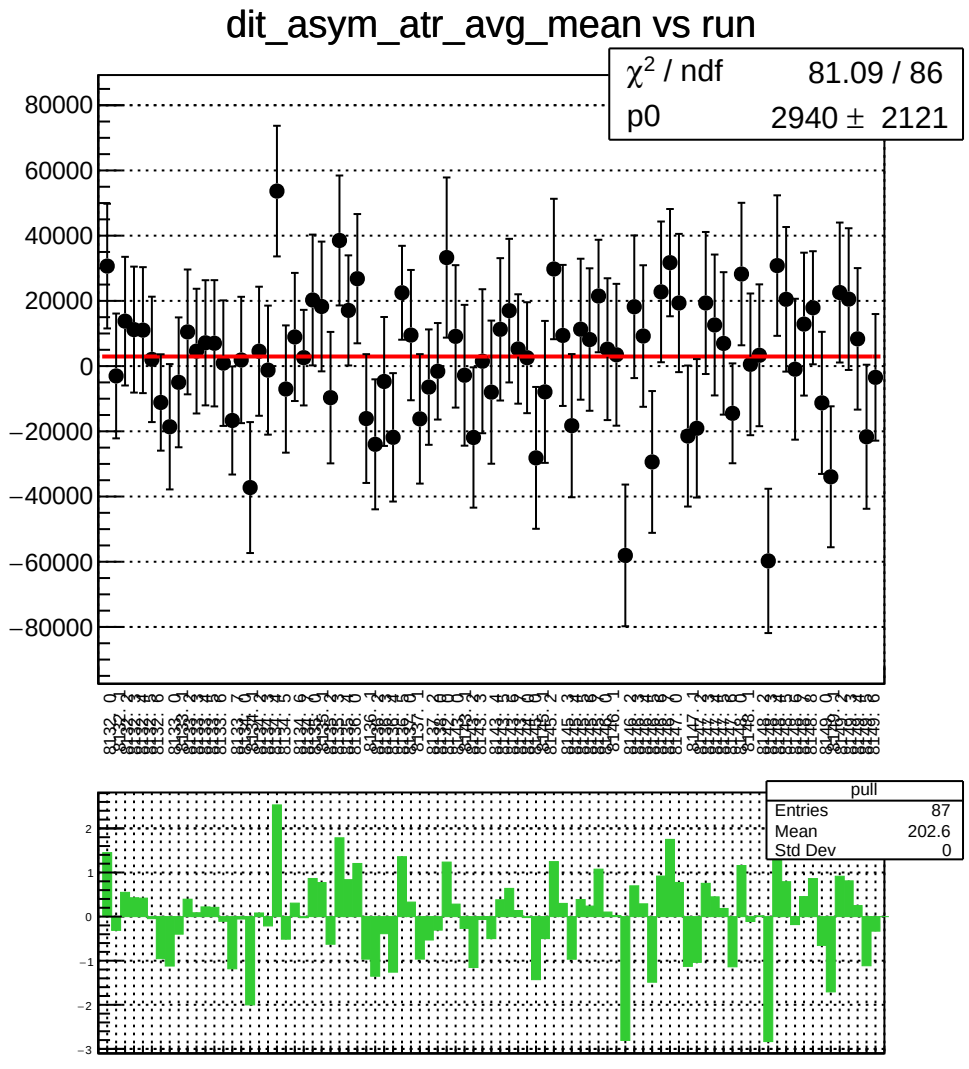

eigen_cor_asym_atr_avg_mean vs run
χ² / ndf 78.34 / 86
p0 2682 ± 2112
pull
Entries 87
Mean 210.9
Std Dev 0
pull1D
Entries 87
Mean −0.005213
Std Dev 0.9489

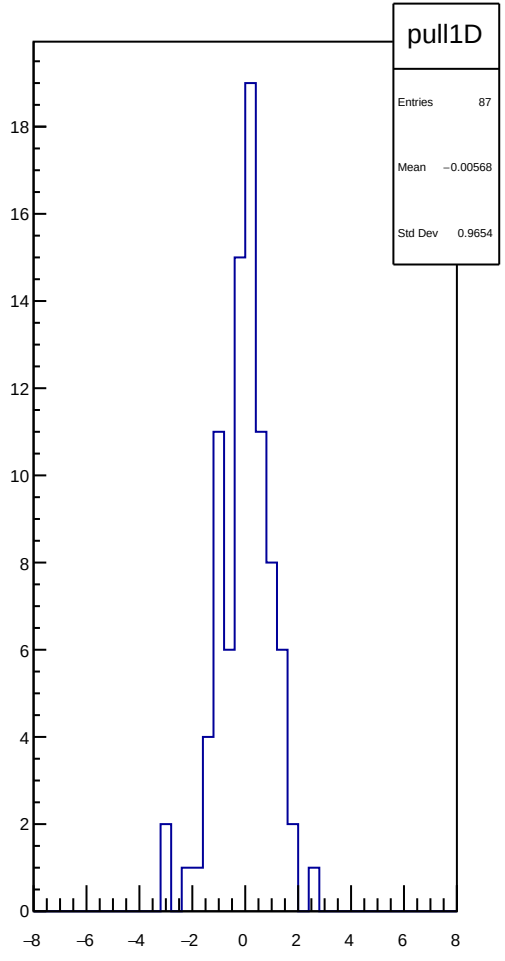

eigen_cor_asym_atr_avg_rms vs run
χ² / ndf 4550 / 86
p0 1955 ± 1.494
2100
2050
2000
1950
1900
1850
1800

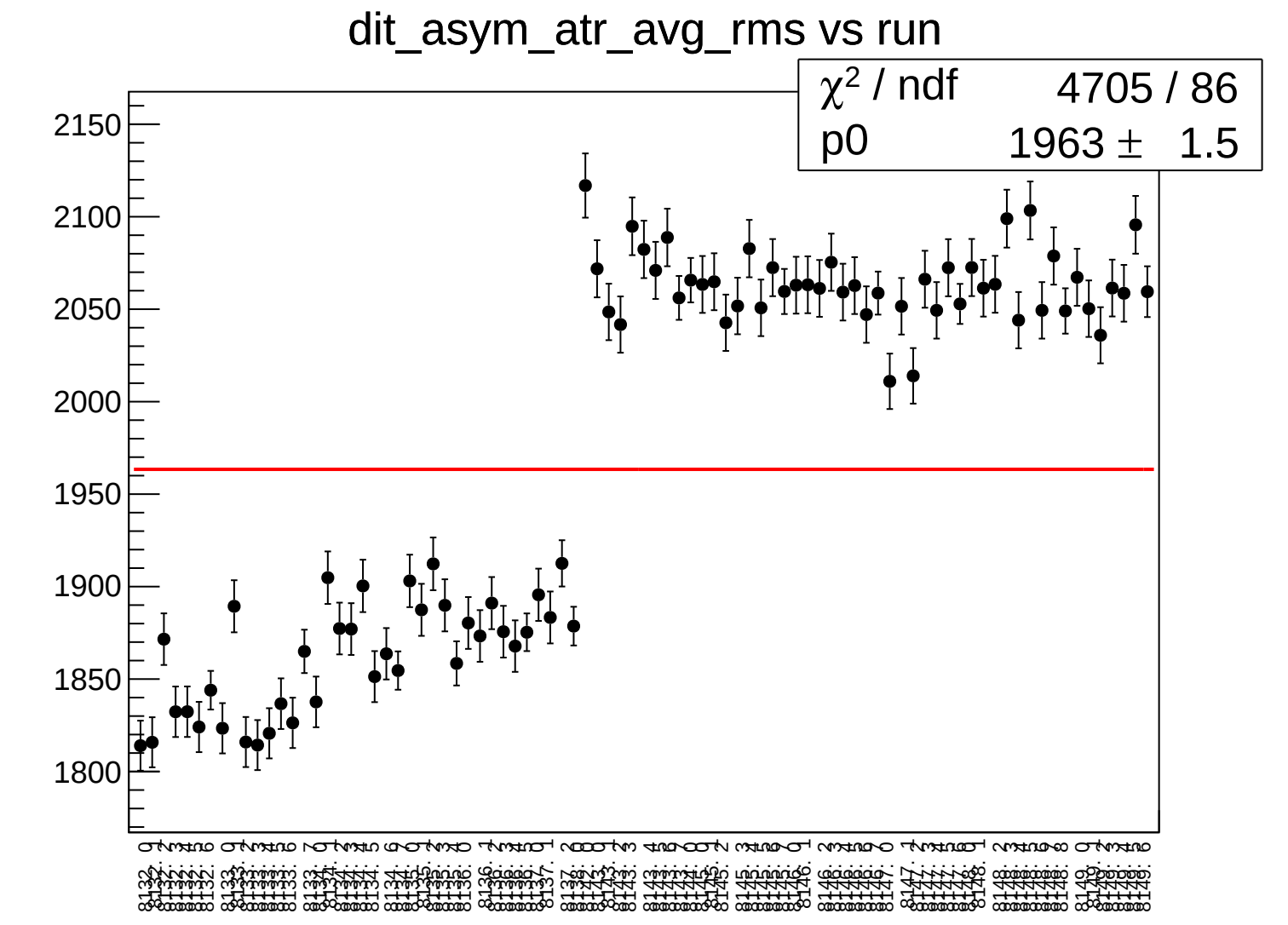

asym_atr_avg_eigen_cor_correction_mean vs run
χ² / ndf 92.73 / 86
p0 4044 ± 7032
×10³
200
100
0
−100
−200
pull
Entries 87
Mean 227.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

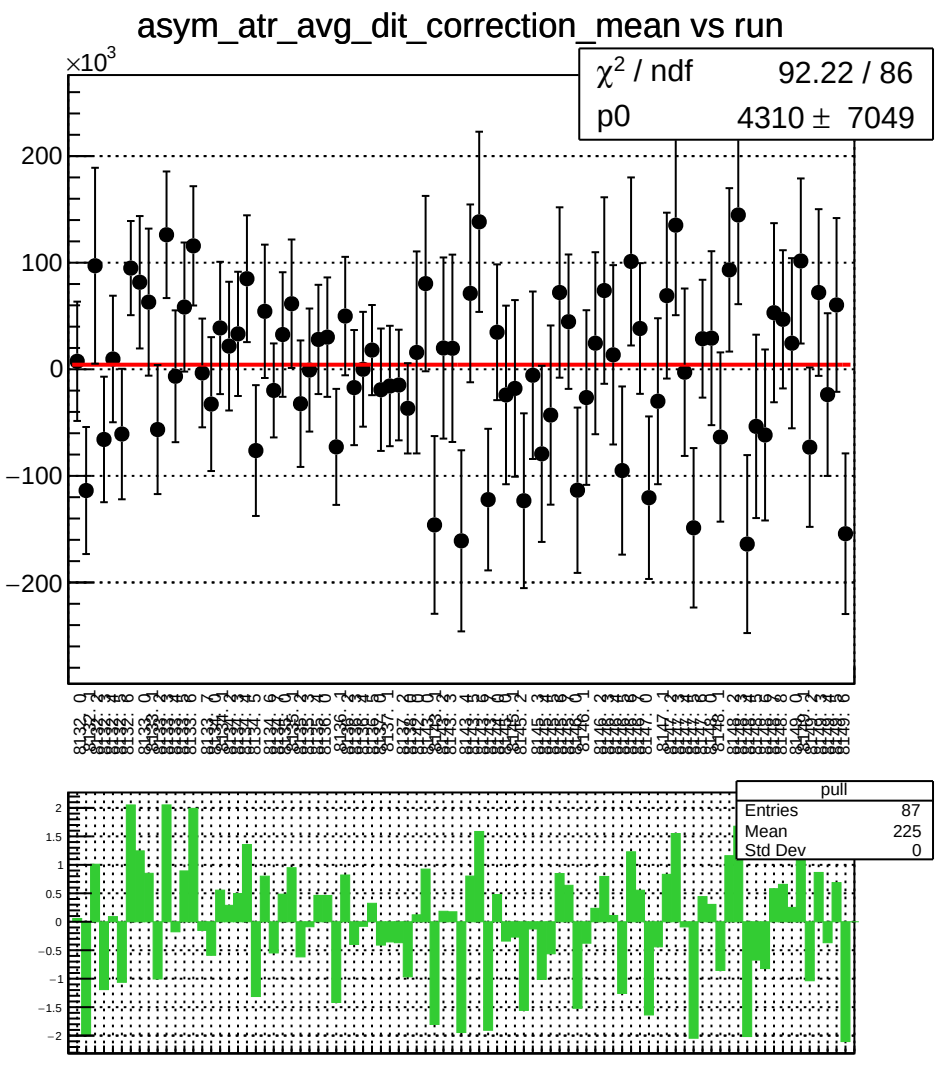

pull1D
Entries 87
Mean −0.01449
Std Dev 1.032
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

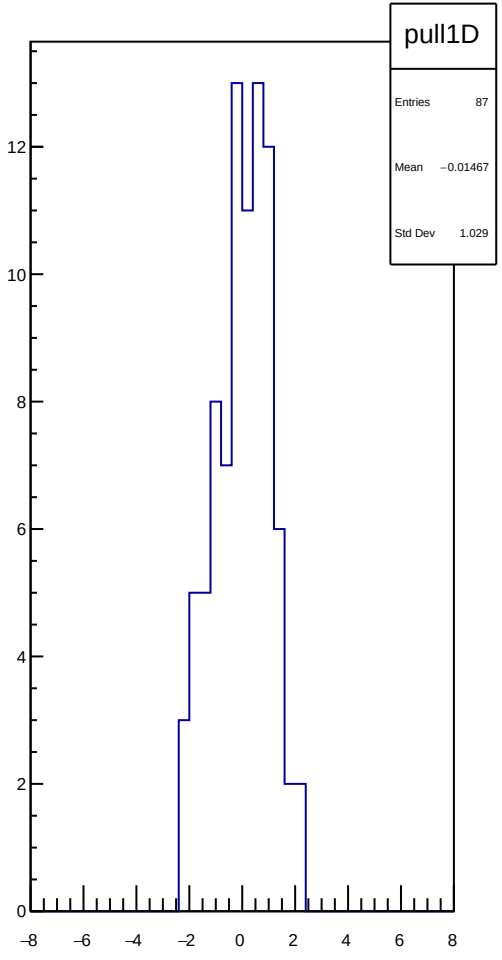

asym_atr_avg_eigen_cor_correction_rms vs run
χ² / ndf 4.854e+04 / 86
p0 6426 ± 4.972
8500
8000
7500
7000
6500
6000
5500
5000

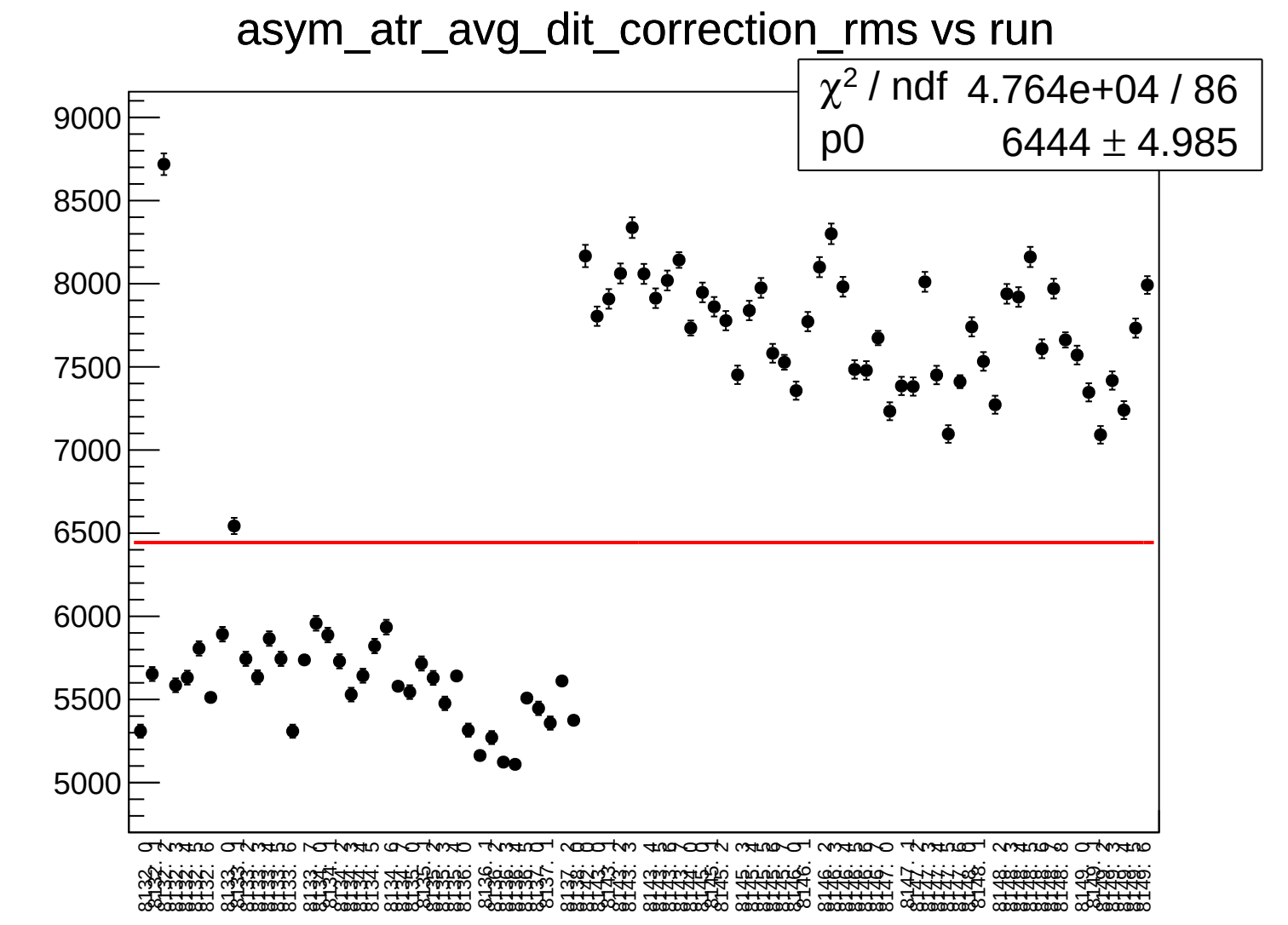

dit_asym_atr_avg_mean vs run
χ² / ndf 81.09 / 86
p0 2940 ± 2121
pull
Entries 87
Mean 202.6
Std Dev 0

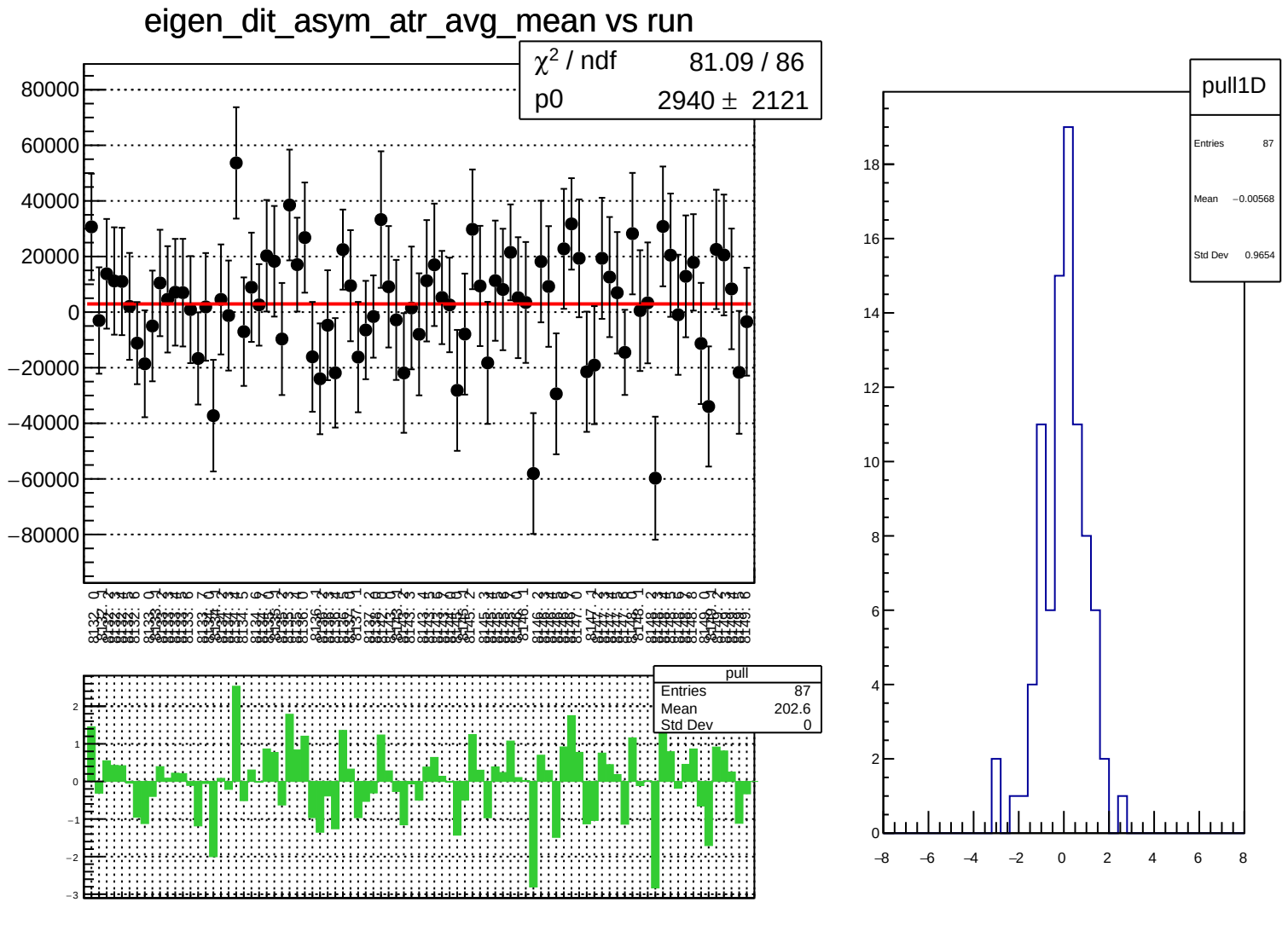

pull1D
Entries 87
Mean −0.00568
Std Dev 0.9654

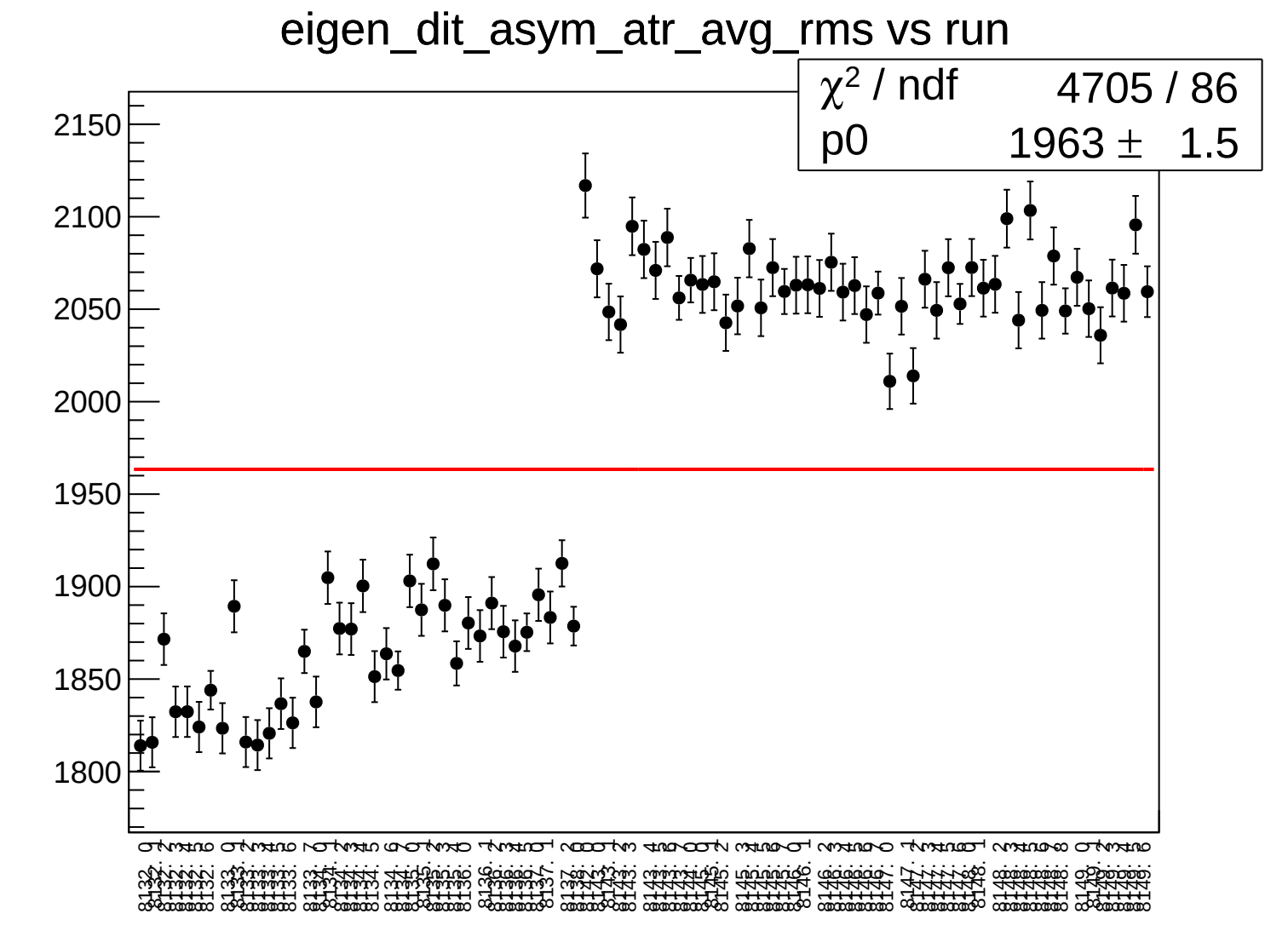

dit_asym_atr_avg_rms vs run
χ² / ndf 4705 / 86
p0 1963 ± 1.5
2150
2100
2050
2000
1950
1900
1850
1800

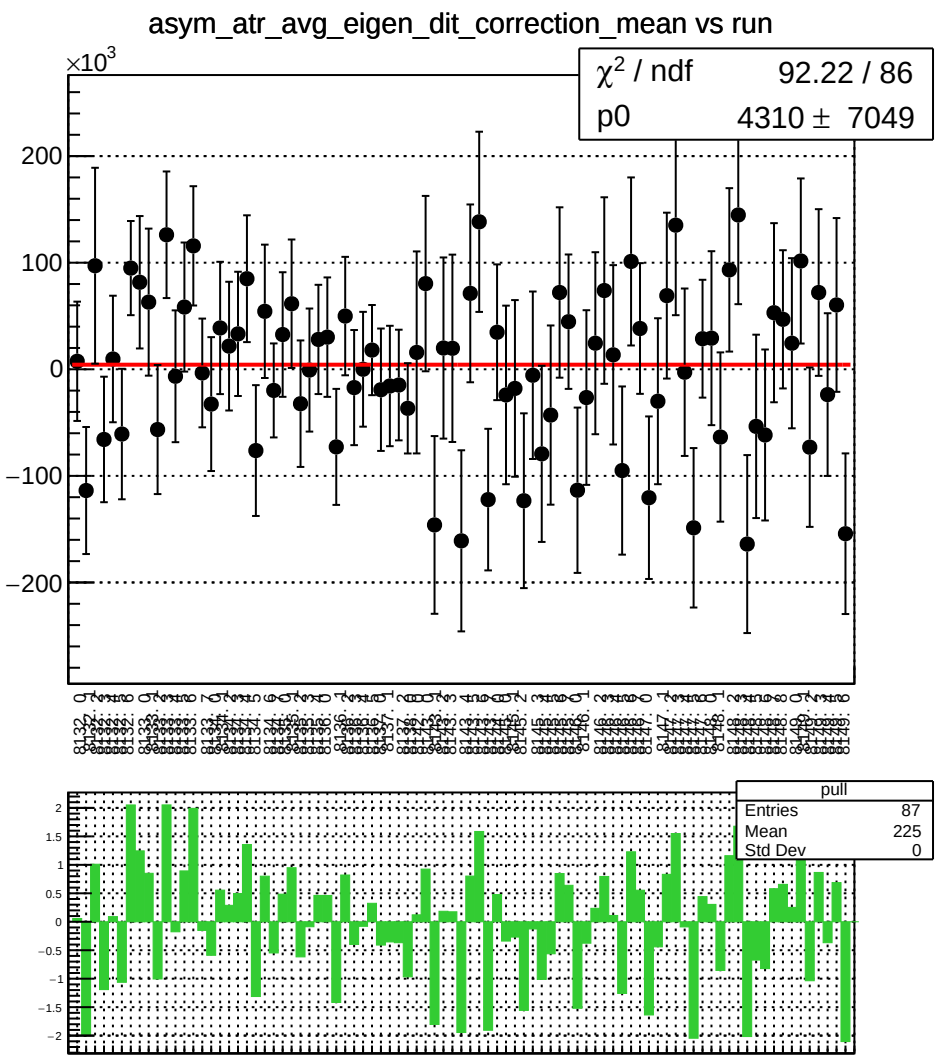

asym_atr_avg_dit_correction_mean vs run
×10^3
χ² / ndf 92.22 / 86
p0 4310 ± 7049
200
100
0
−100
−200
pull
Entries 87
Mean 225
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

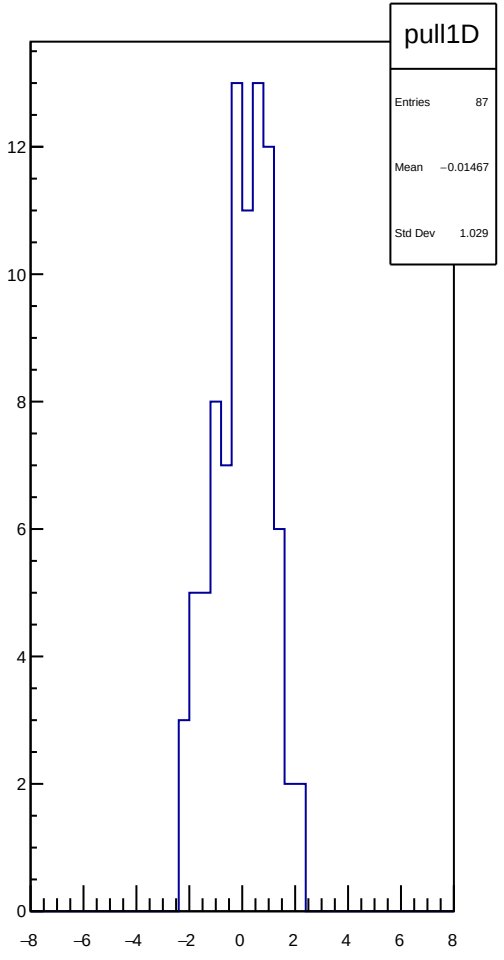

pull1D
Entries 87
Mean −0.01467
Std Dev 1.029
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

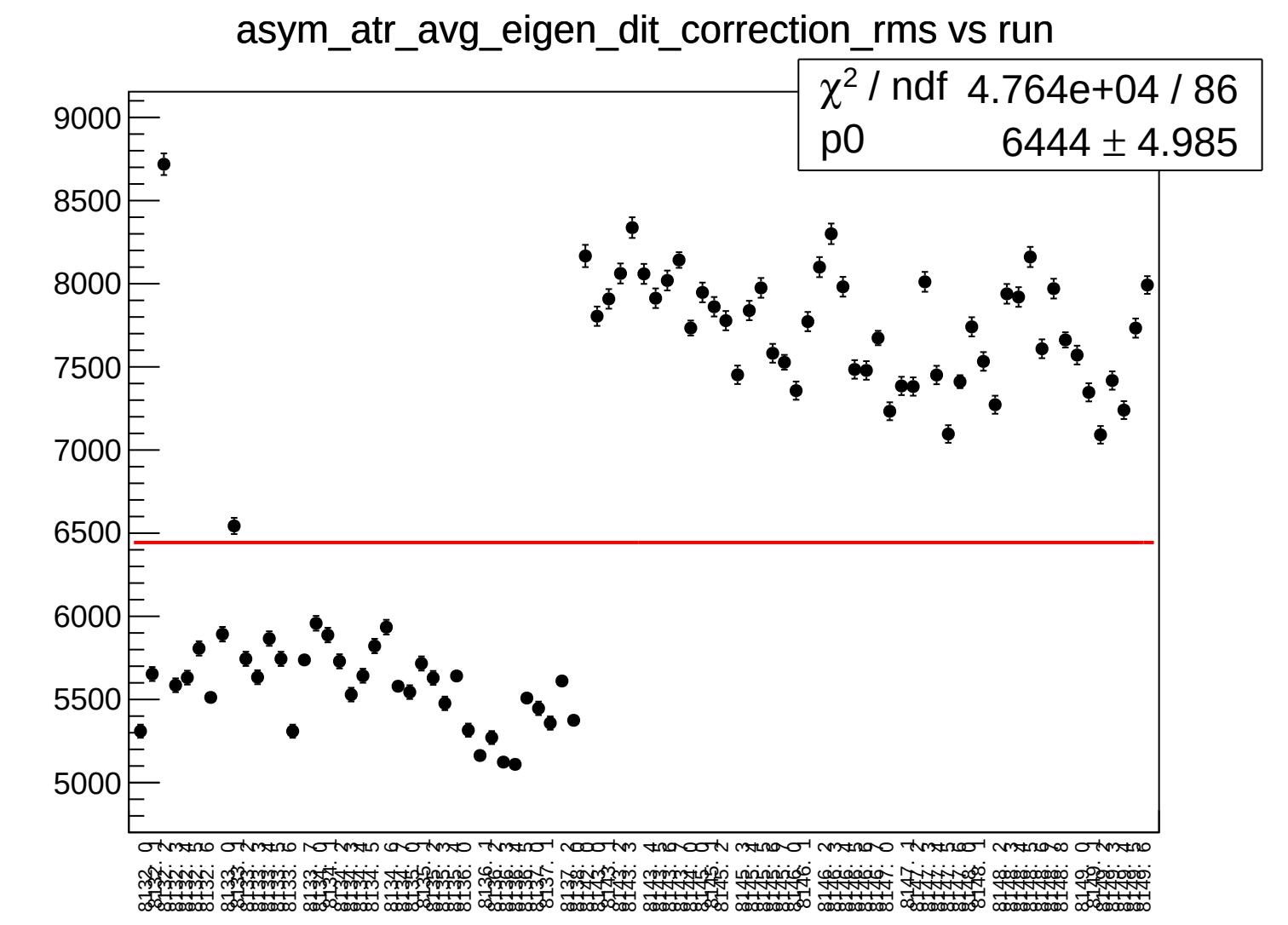

asym_atr_avg_dit_correction_rms vs run
χ^2 / ndf 4.764e+04 / 86
p0 6444 ± 4.985
9000
8500
8000
7500
7000
6500
6000
5500
5000

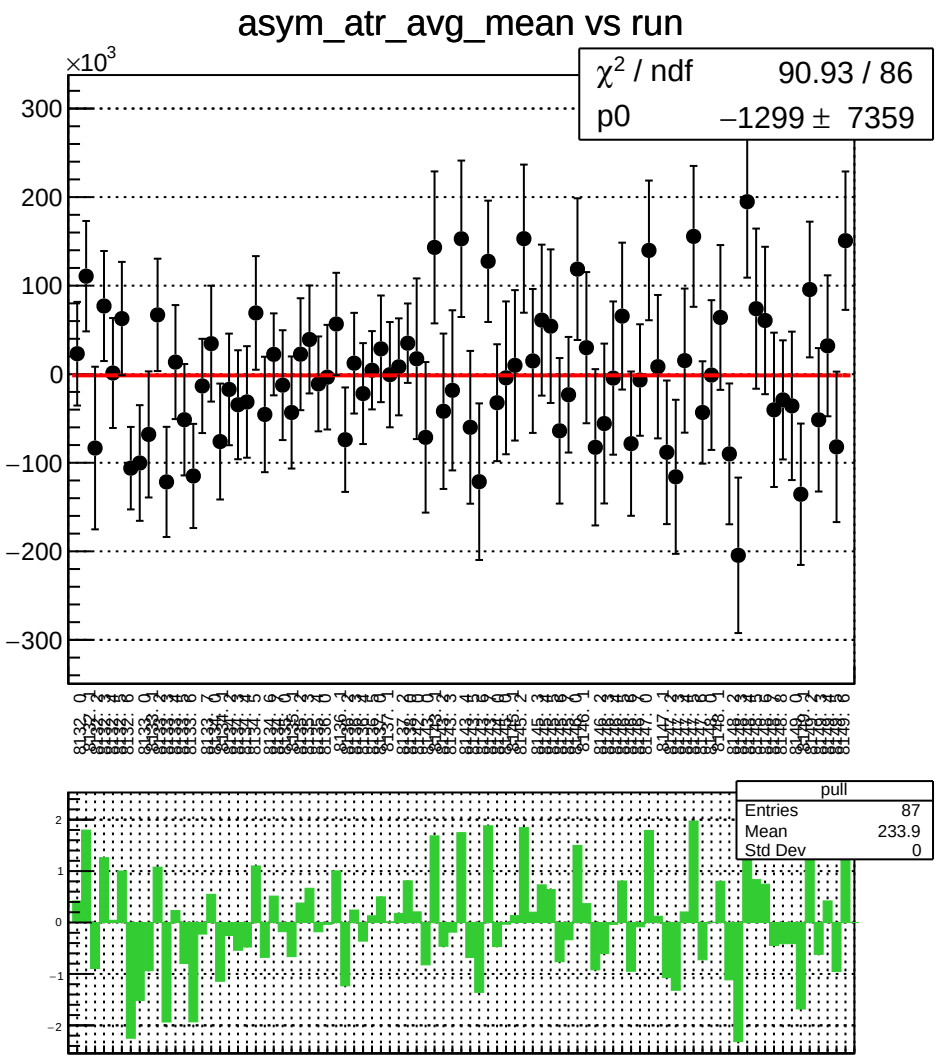

eigen_dit_asym_atr_avg_mean vs run
χ² / ndf 81.09 / 86
p0 2940 ± 2121
pull
Entries 87
Mean 202.6
Std Dev 0
pull1D
Entries 87
Mean −0.00568
Std Dev 0.9654

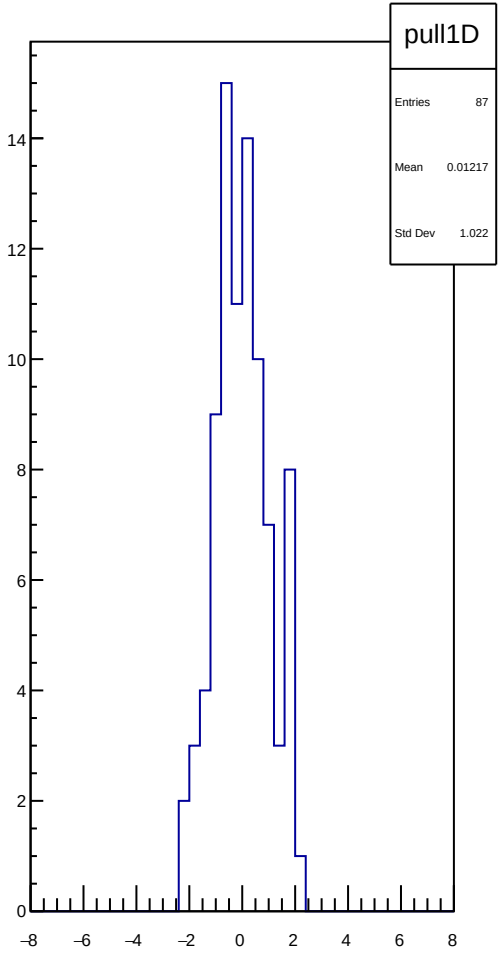

eigen_dit_asym_atr_avg_rms vs run
χ² / ndf 4705 / 86
p0 1963 ± 1.5
2150
2100
2050
2000
1950
1900
1850
1800

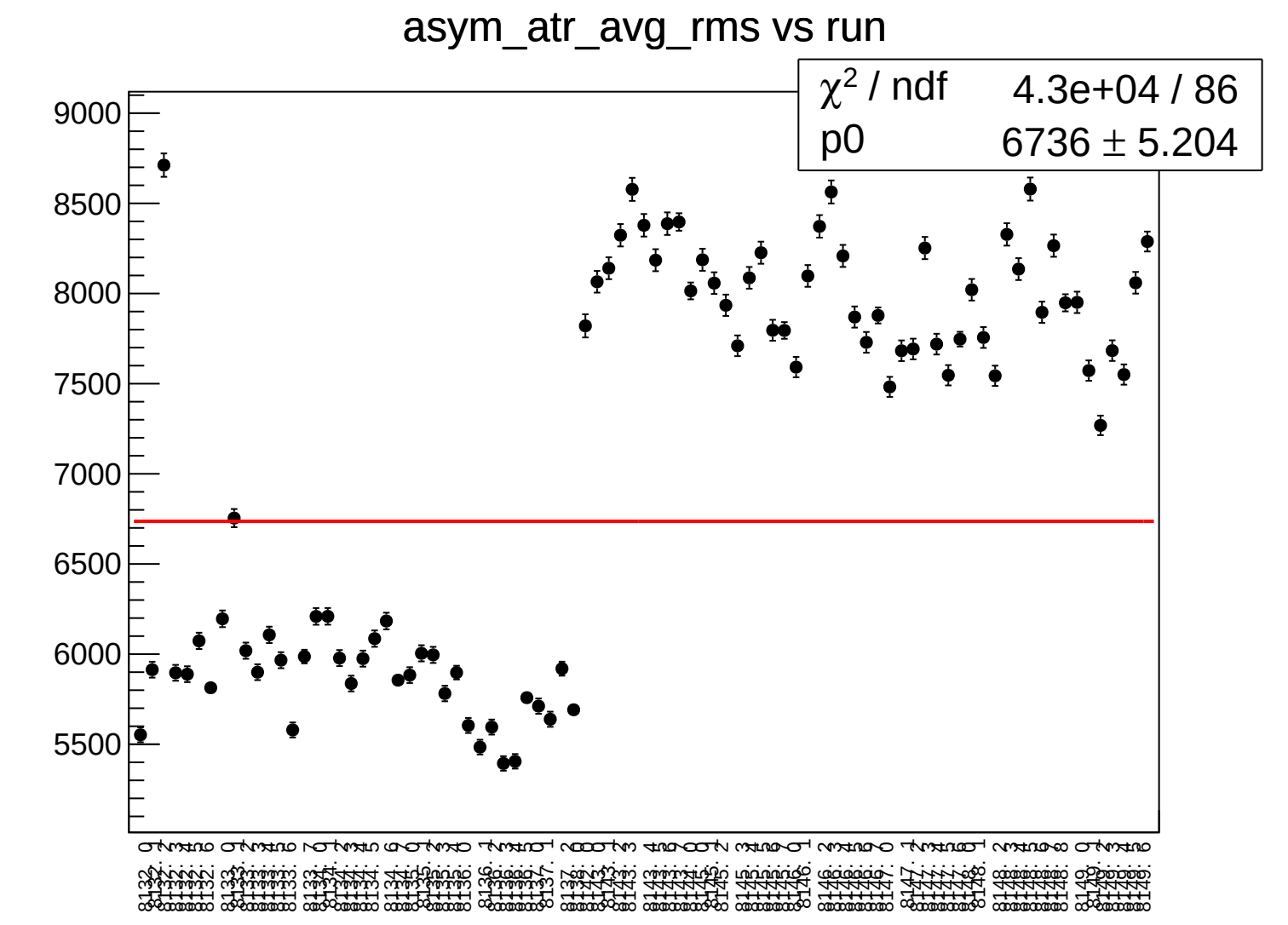

asym_atr_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 92.22 / 86
p0 4310 ± 7049
200
100
0
−100
−200
pull
Entries 87
Mean 225
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

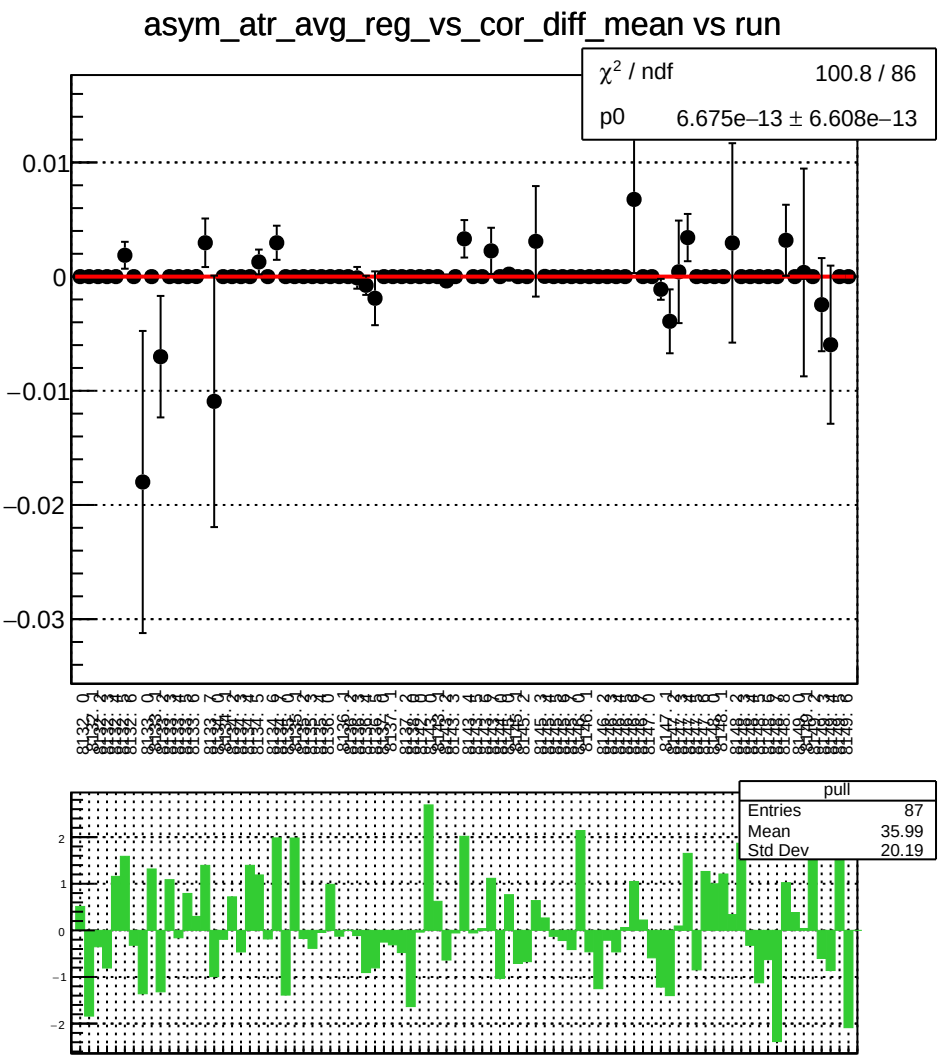

pull1D
Entries 87
Mean −0.01467
Std Dev 1.029
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

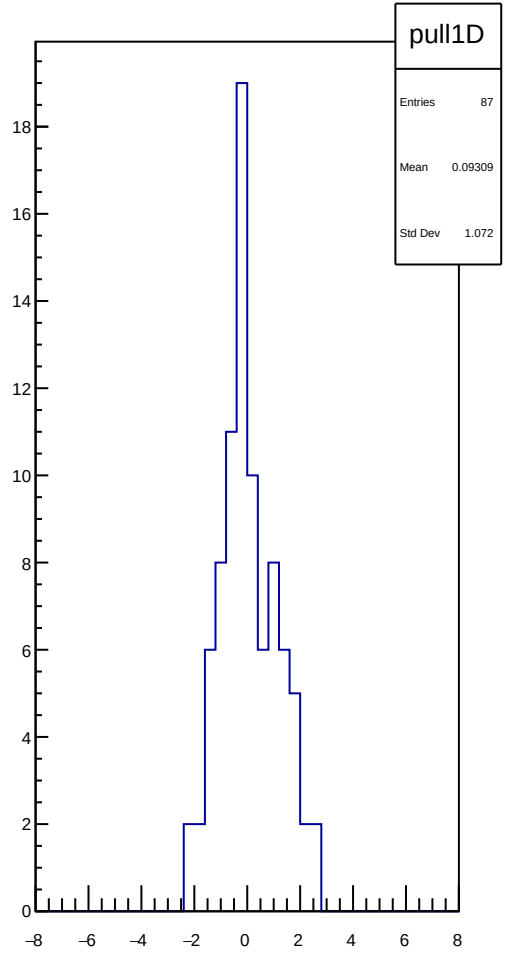

asym_atr_avg_eigen_dit_correction_rms vs run
χ² / ndf 4.764e+04 / 86
p0 6444 ± 4.985
9000
8500
8000
7500
7000
6500
6000
5500
5000

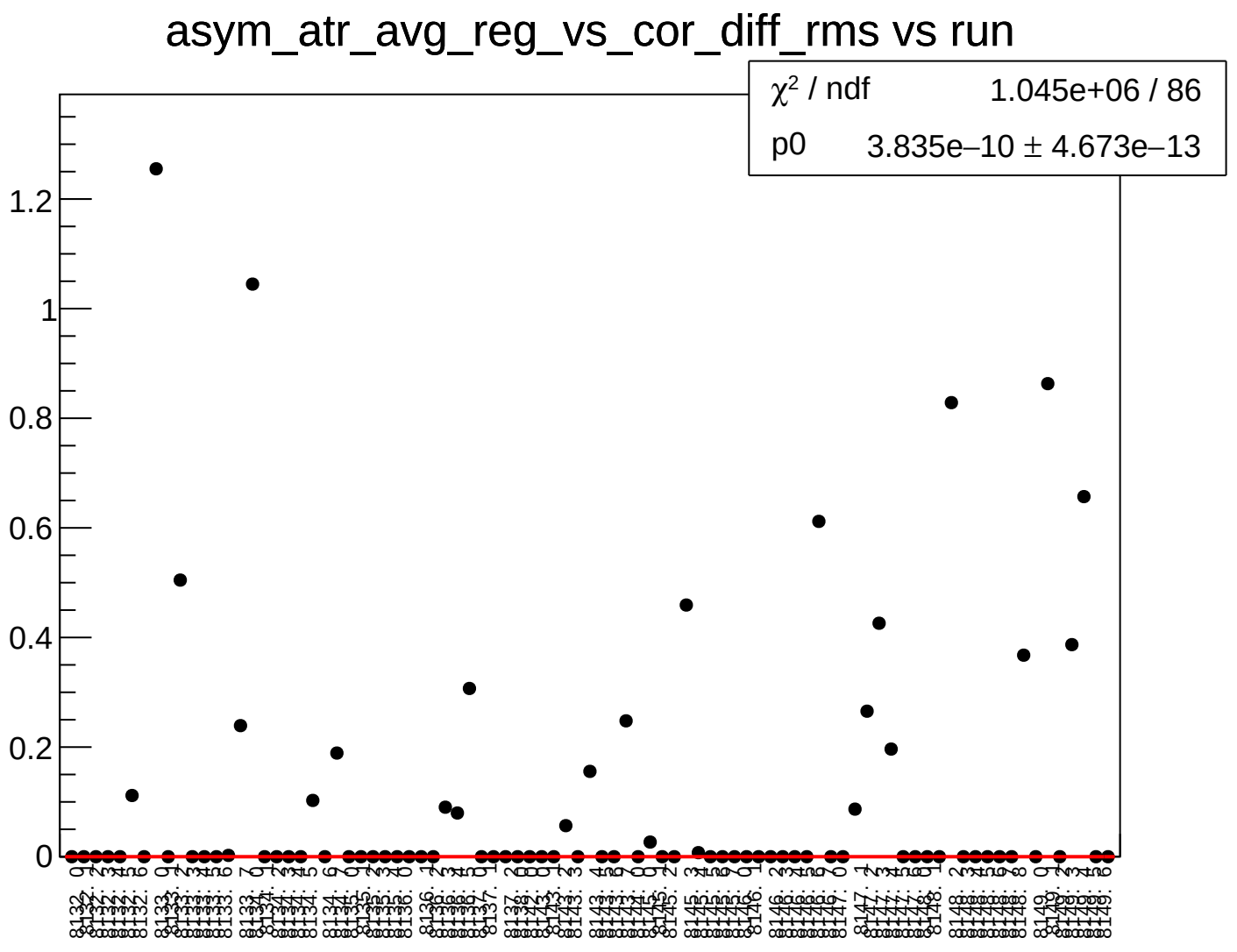

asym_atr_avg_mean vs run
×10^3
χ² / ndf 90.93 / 86
p0 −1299 ± 7359
300
200
100
0
−100
−200
−300
pull
Entries 87
Mean 233.9
Std Dev 0
2
1
0
−1
−2

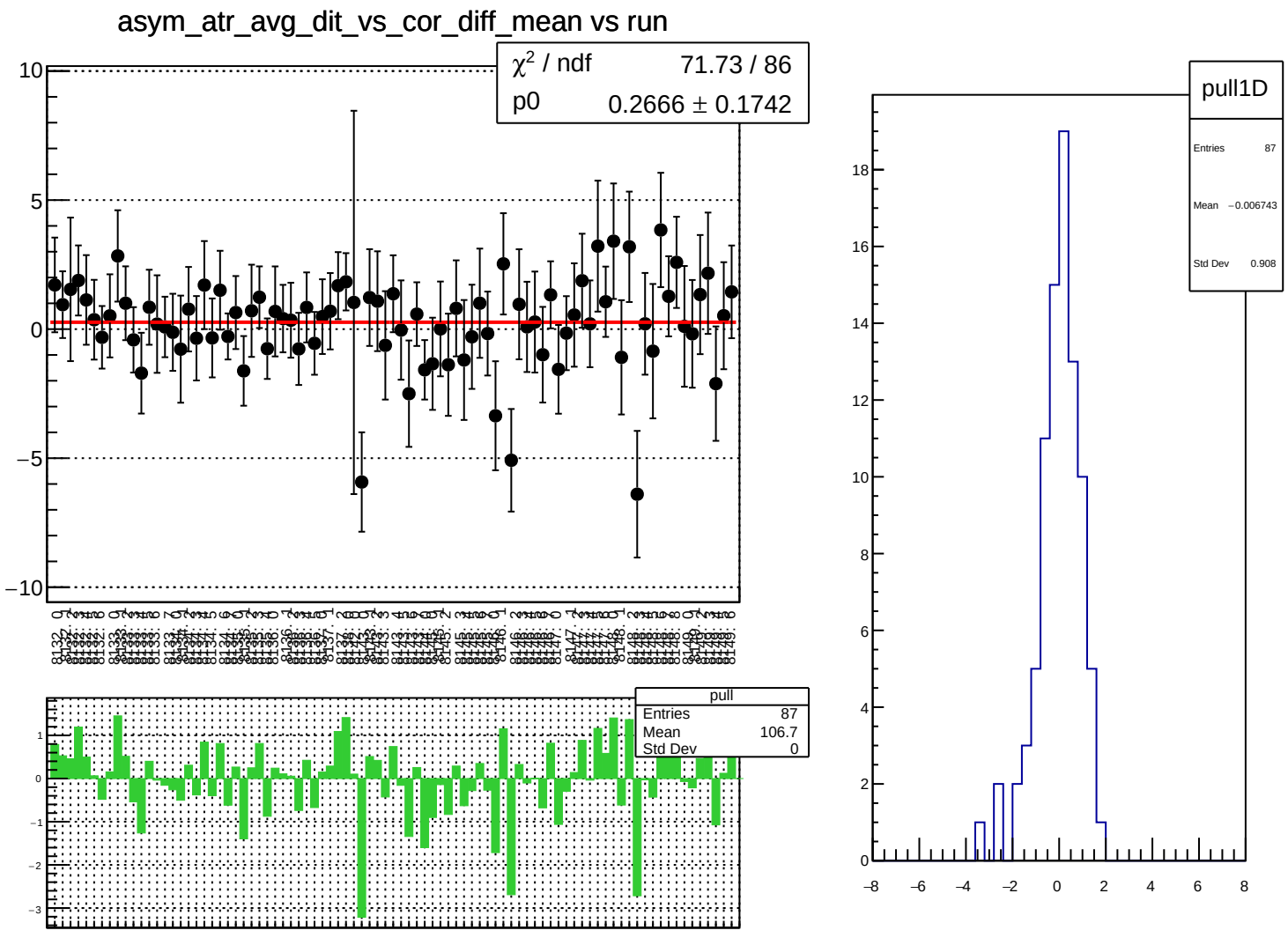

pull1D
Entries 87
Mean 0.01217
Std Dev 1.022
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

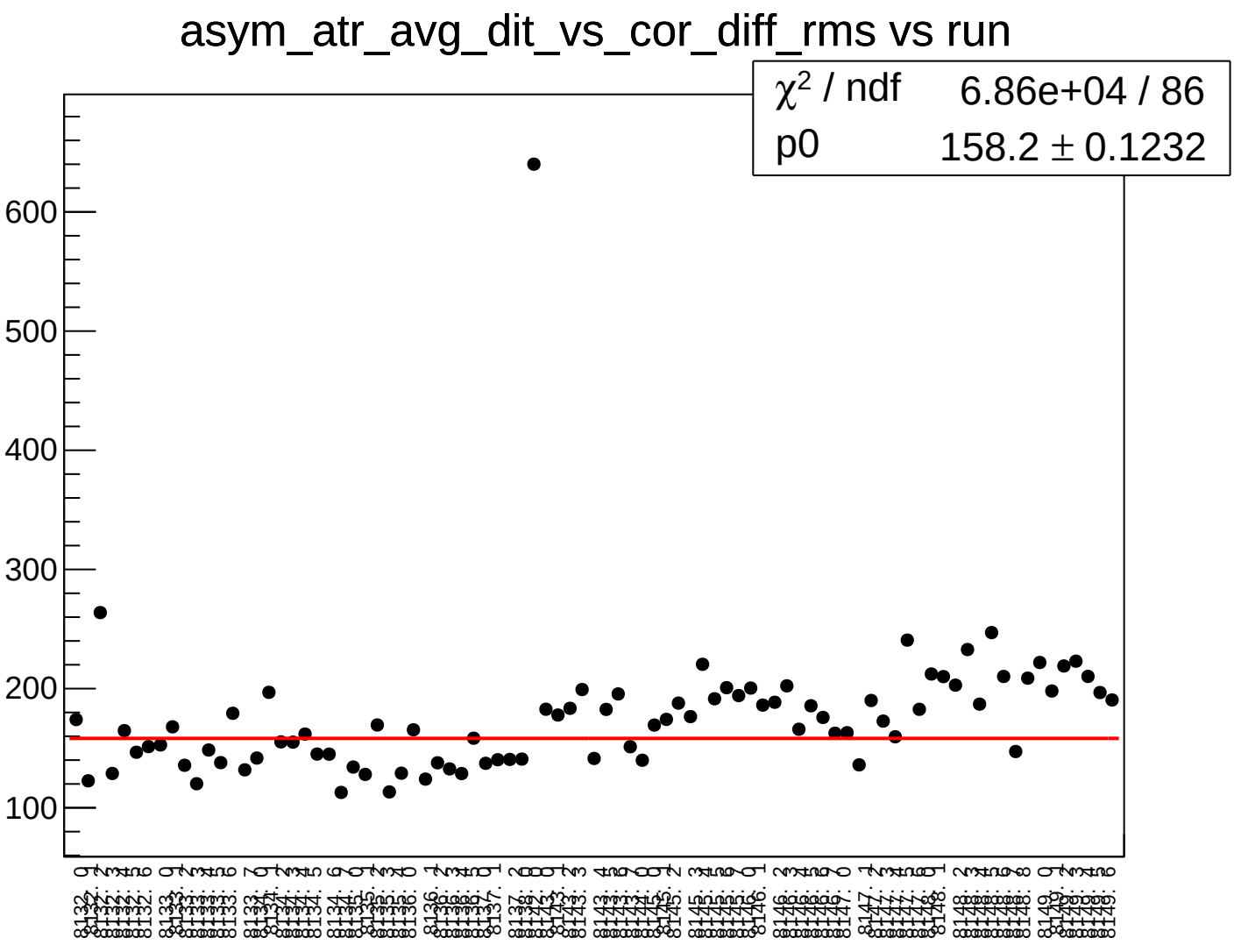

asym_atr_avg_rms vs run
χ^2 / ndf 4.3e+04 / 86
p0 6736 ± 5.204
9000
8500
8000
7500
7000
6500
6000
5500

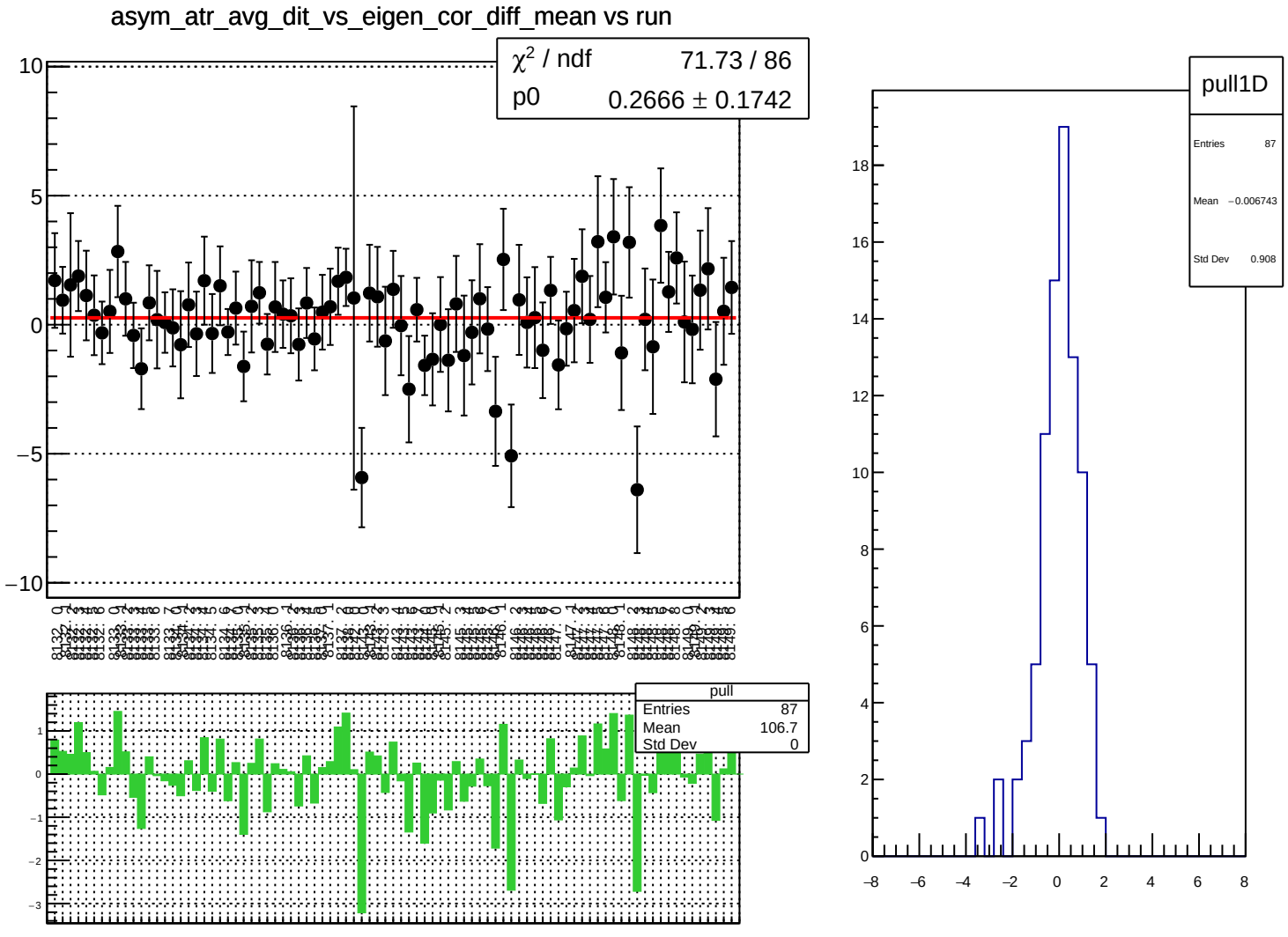

asym_atr_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 100.8 / 86
p0 6.675e−13 ± 6.608e−13
0.01
0
−0.01
−0.02
−0.03
pull
Entries 87
Mean 35.99
Std Dev 20.19
2
1
0
−1
−2

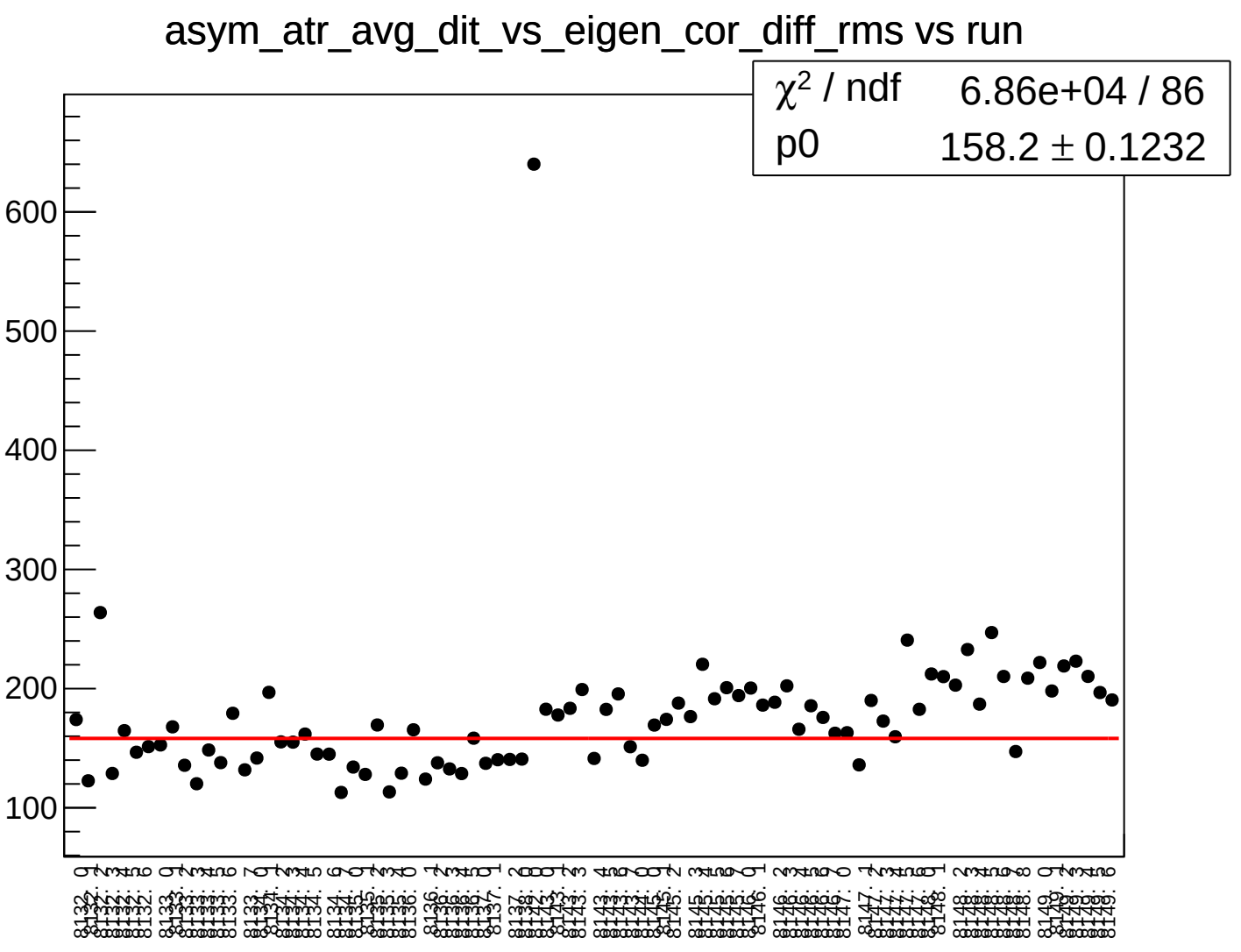

pull1D
Entries 87
Mean 0.09309
Std Dev 1.072
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

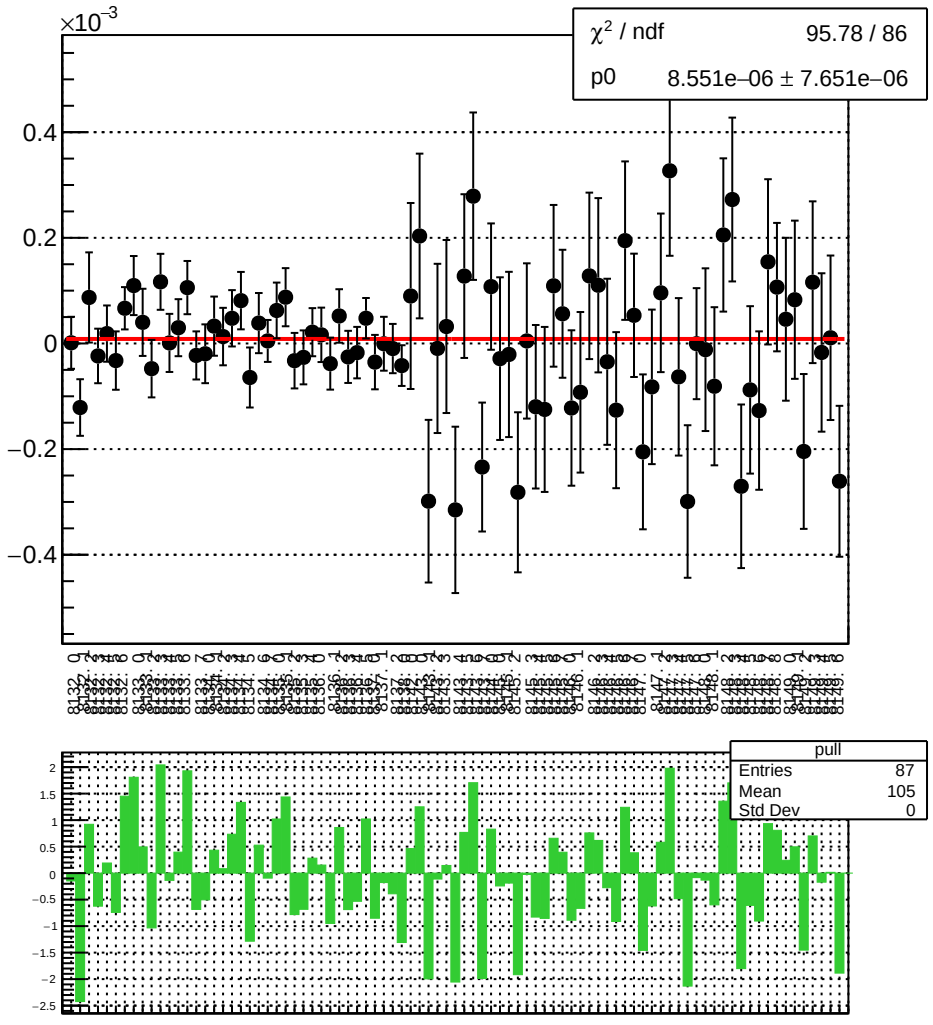

asym_atr_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.045e+06 / 86
p0 3.835e−10 ± 4.673e−13
1.2
1
0.8
0.6
0.4
0.2
0

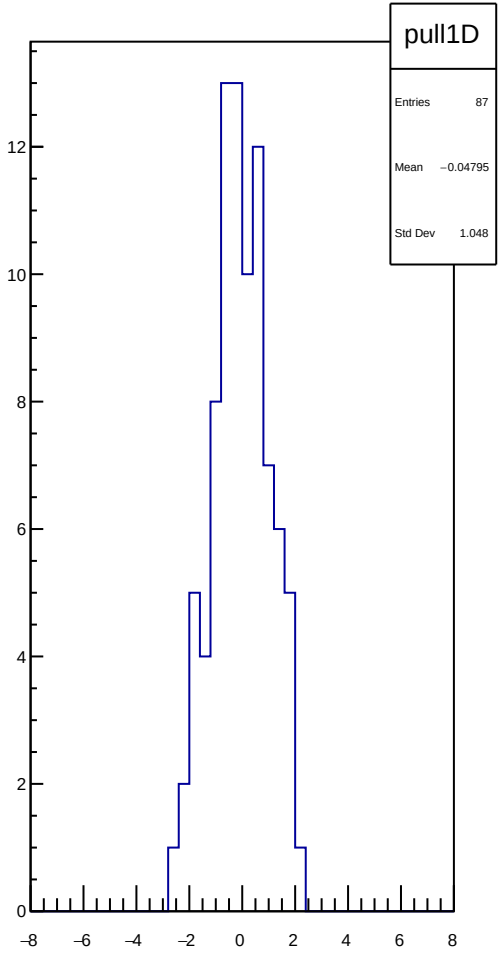

asym_atr_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 71.73 / 86
p0 0.2666 ± 0.1742
pull
Entries 87
Mean 106.7
Std Dev 0
pull1D
Entries 87
Mean −0.006743
Std Dev 0.908

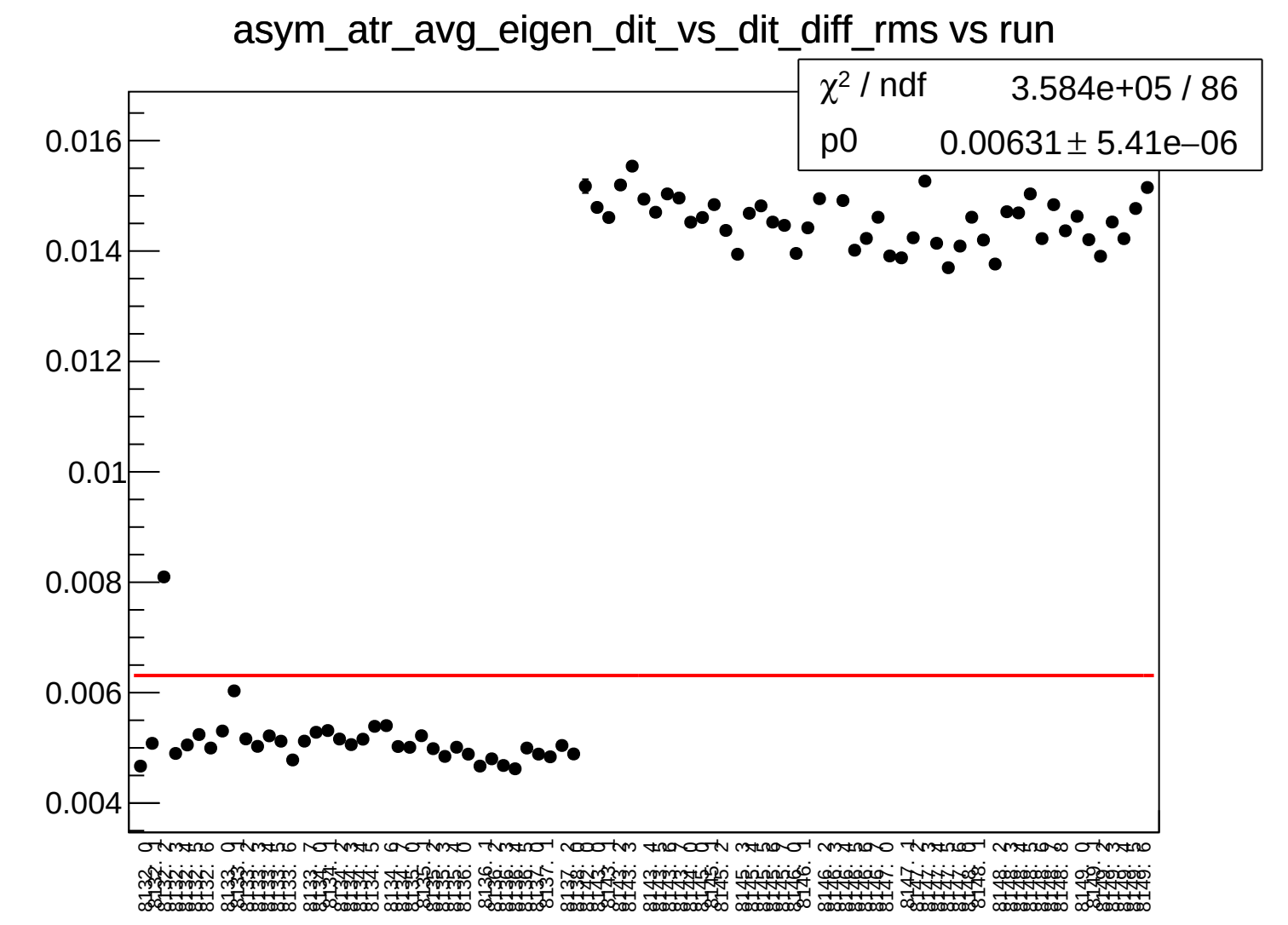

asym_atr_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.86e+04 / 86
p0 158.2 ± 0.1232
600
500
400
300
200
100

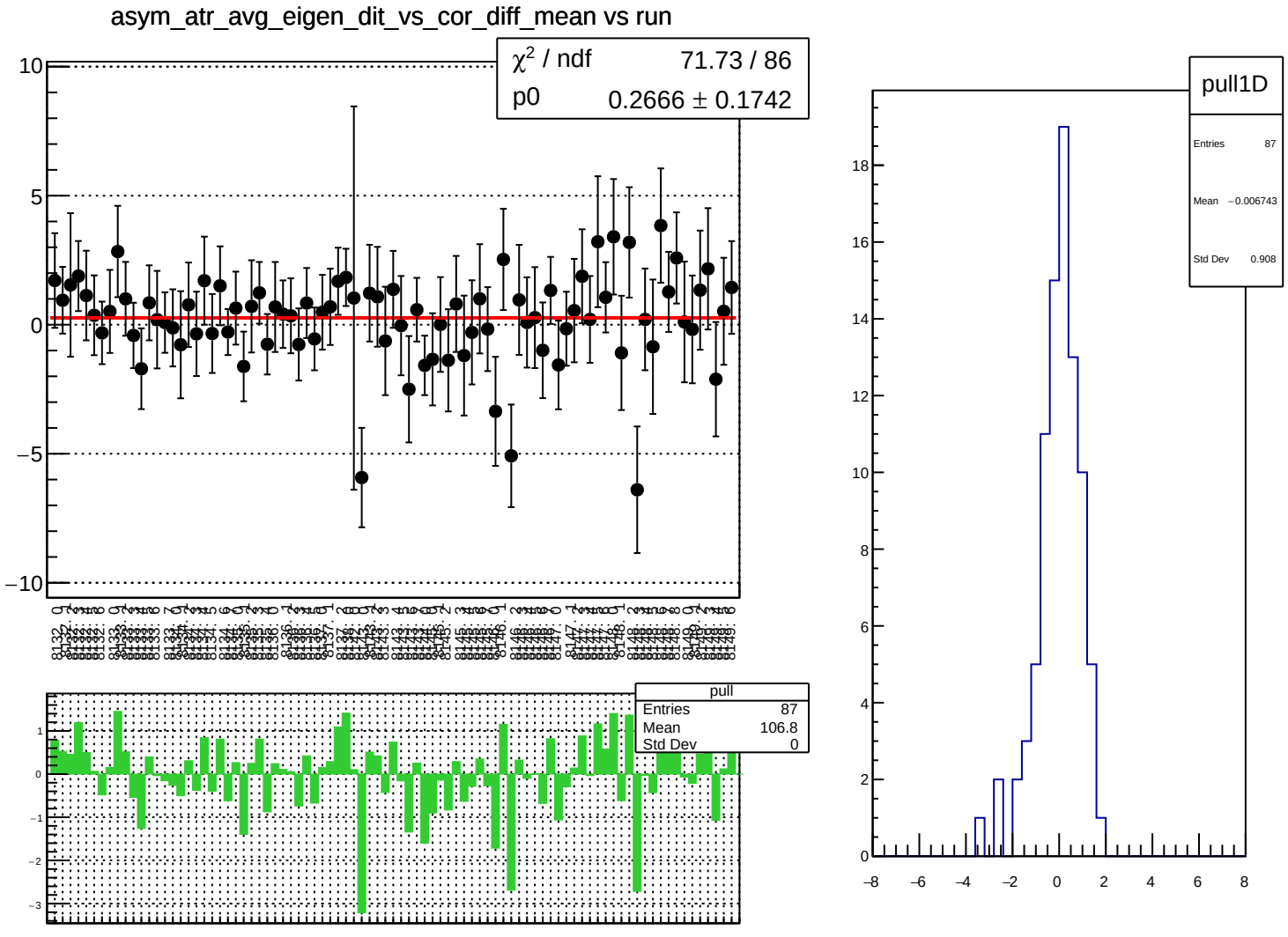

asym_atr_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.73 / 86
p0 0.2666 ± 0.1742
pull
Entries 87
Mean 106.7
Std Dev 0
pull1D
Entries 87
Mean −0.006743
Std Dev 0.908

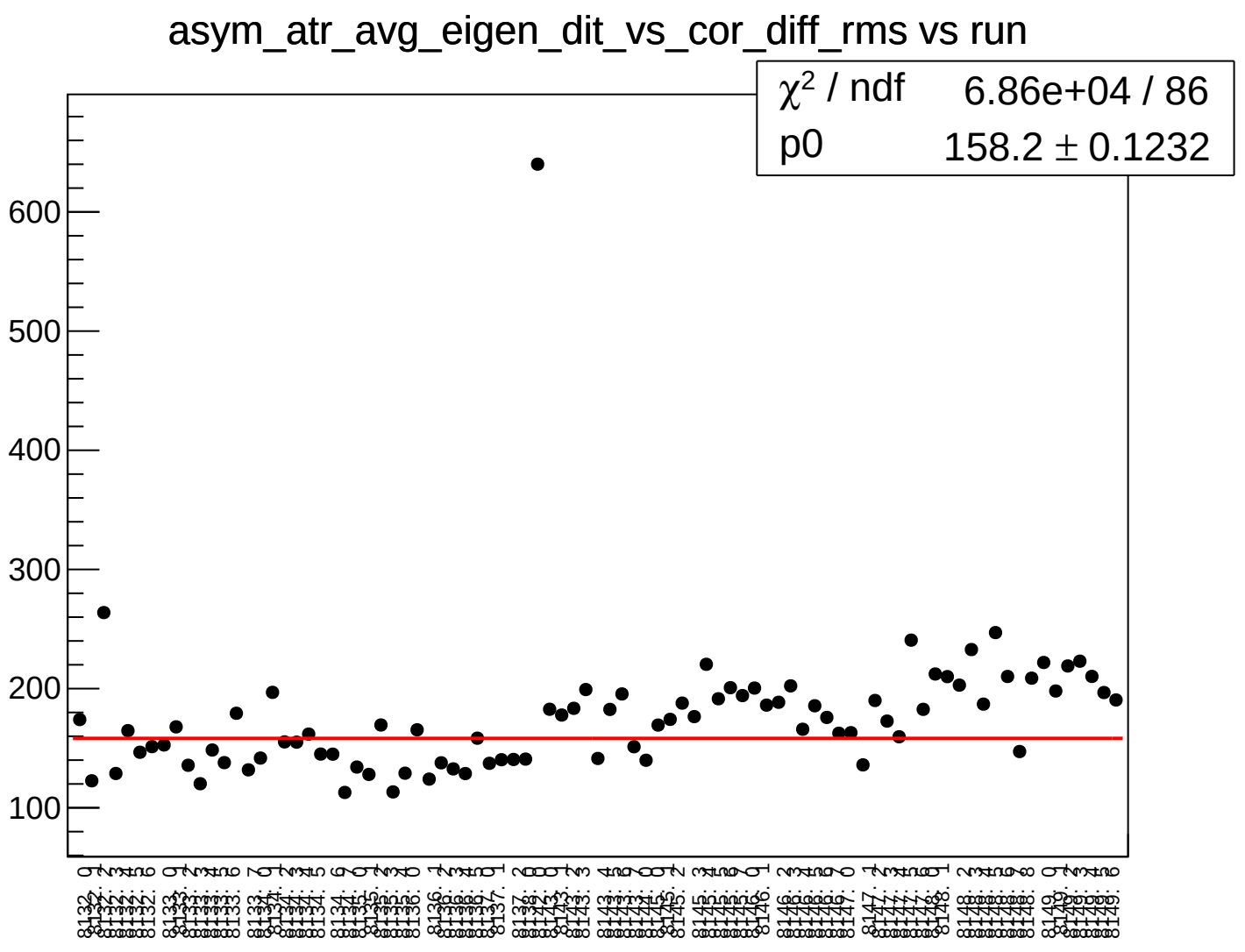

asym_atr_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.86e+04 / 86
p0 158.2 ± 0.1232
600
500
400
300
200
100

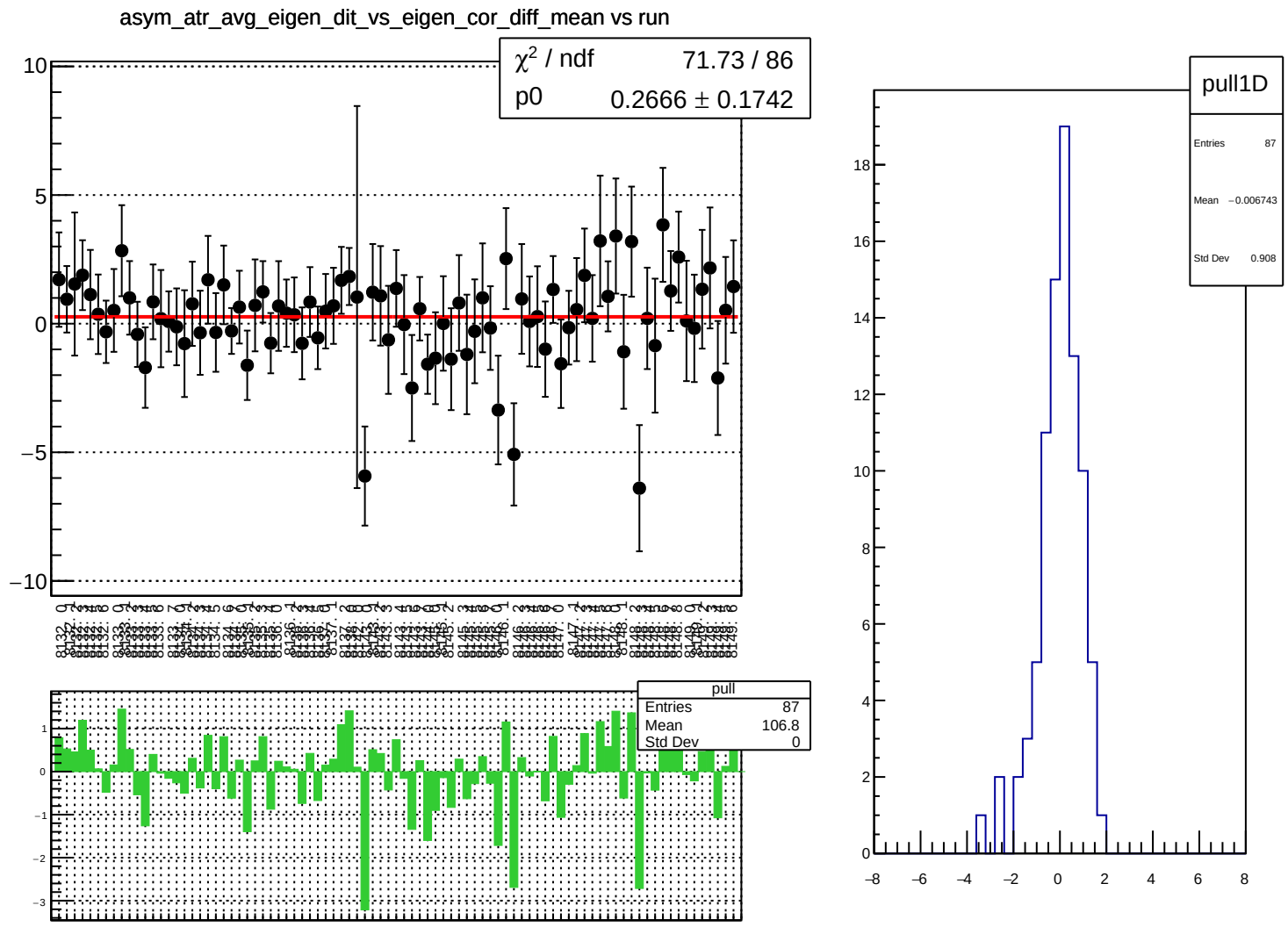

asym_atr_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.78 / 86
p0 8.551e−06 ± 7.651e−06
0.4
0.2
0
−0.2
−0.4
pull
Entries 87
Mean 105
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

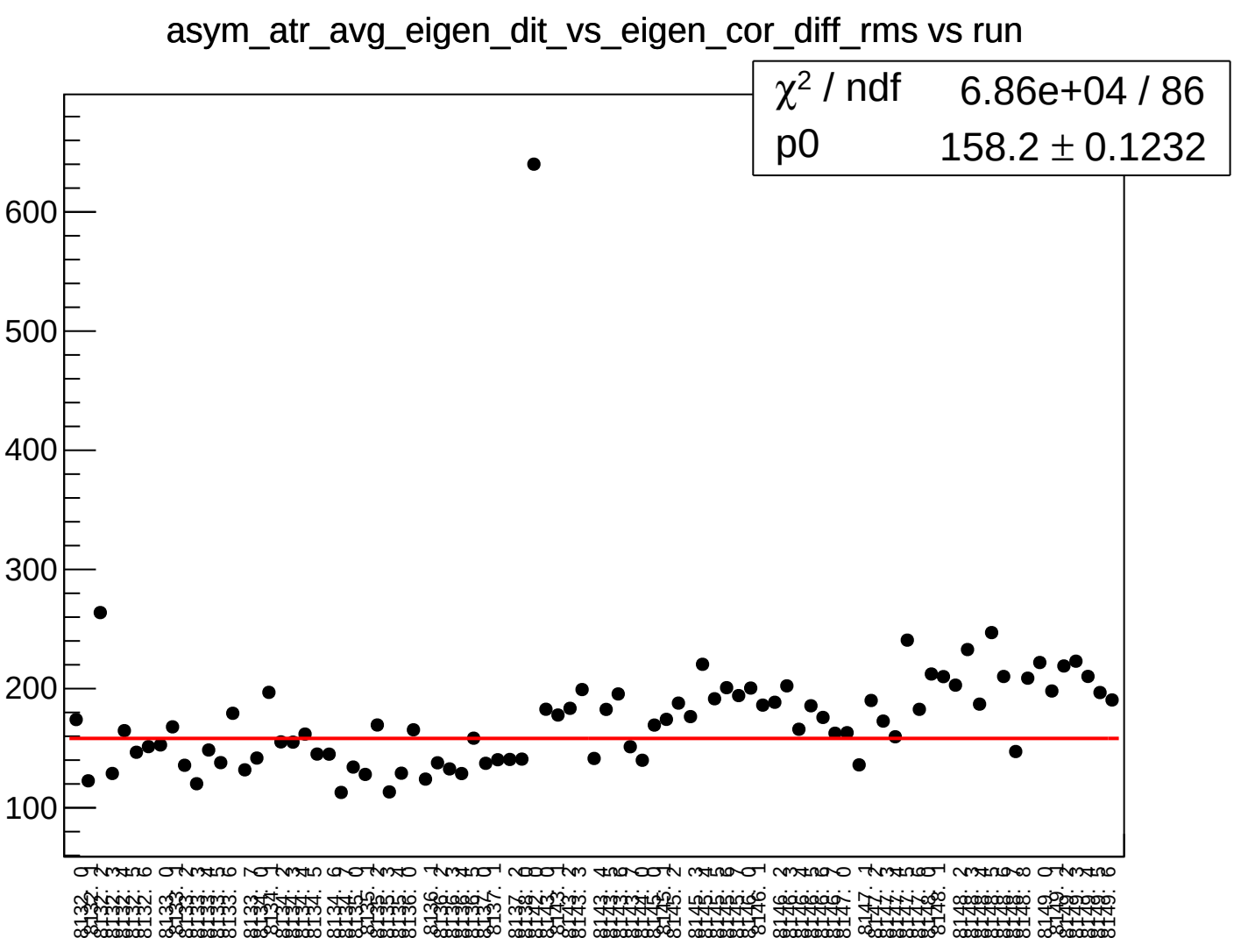

pull1D
Entries 87
Mean −0.04795
Std Dev 1.048
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

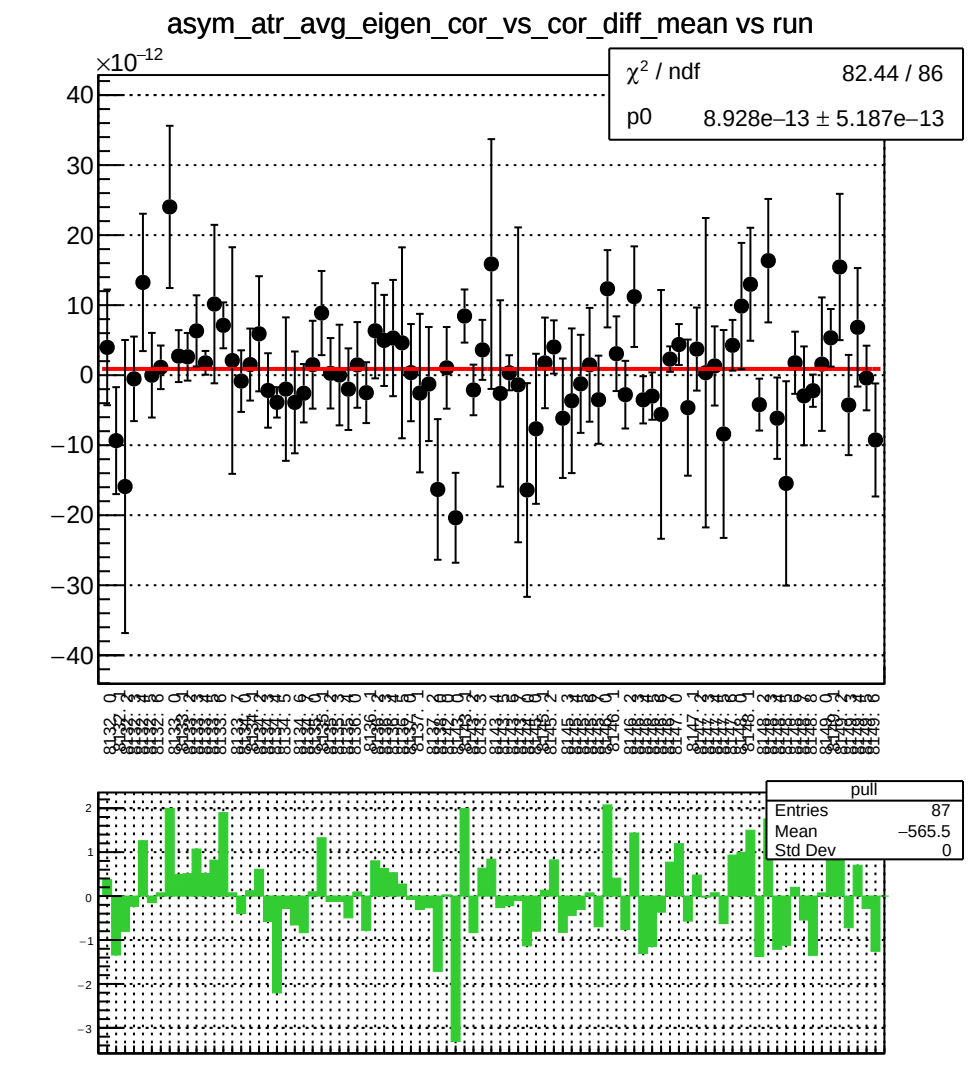

asym_atr_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.584e+05 / 86
p0 0.00631 ± 5.41e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004

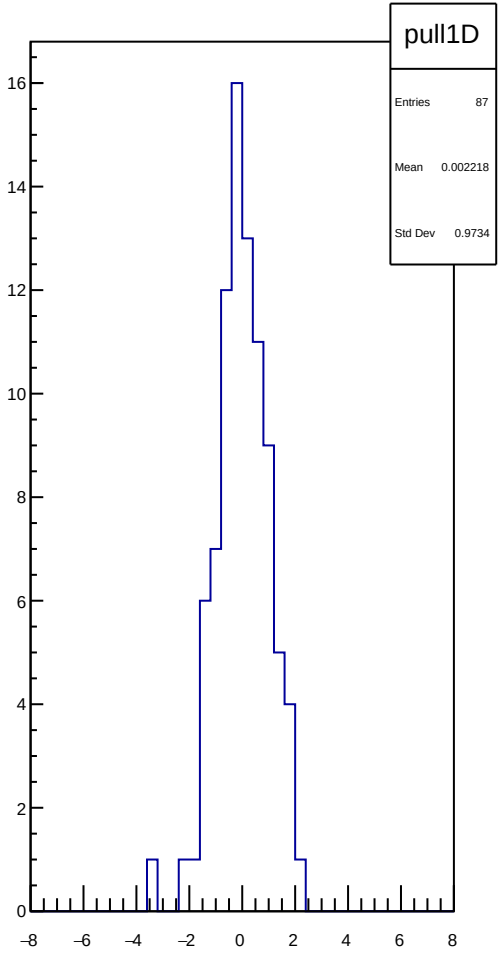

asym_atr_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.73 / 86
p0 0.2666 ± 0.1742
pull
Entries 87
Mean 106.8
Std Dev 0
pull1D
Entries 87
Mean −0.006743
Std Dev 0.908

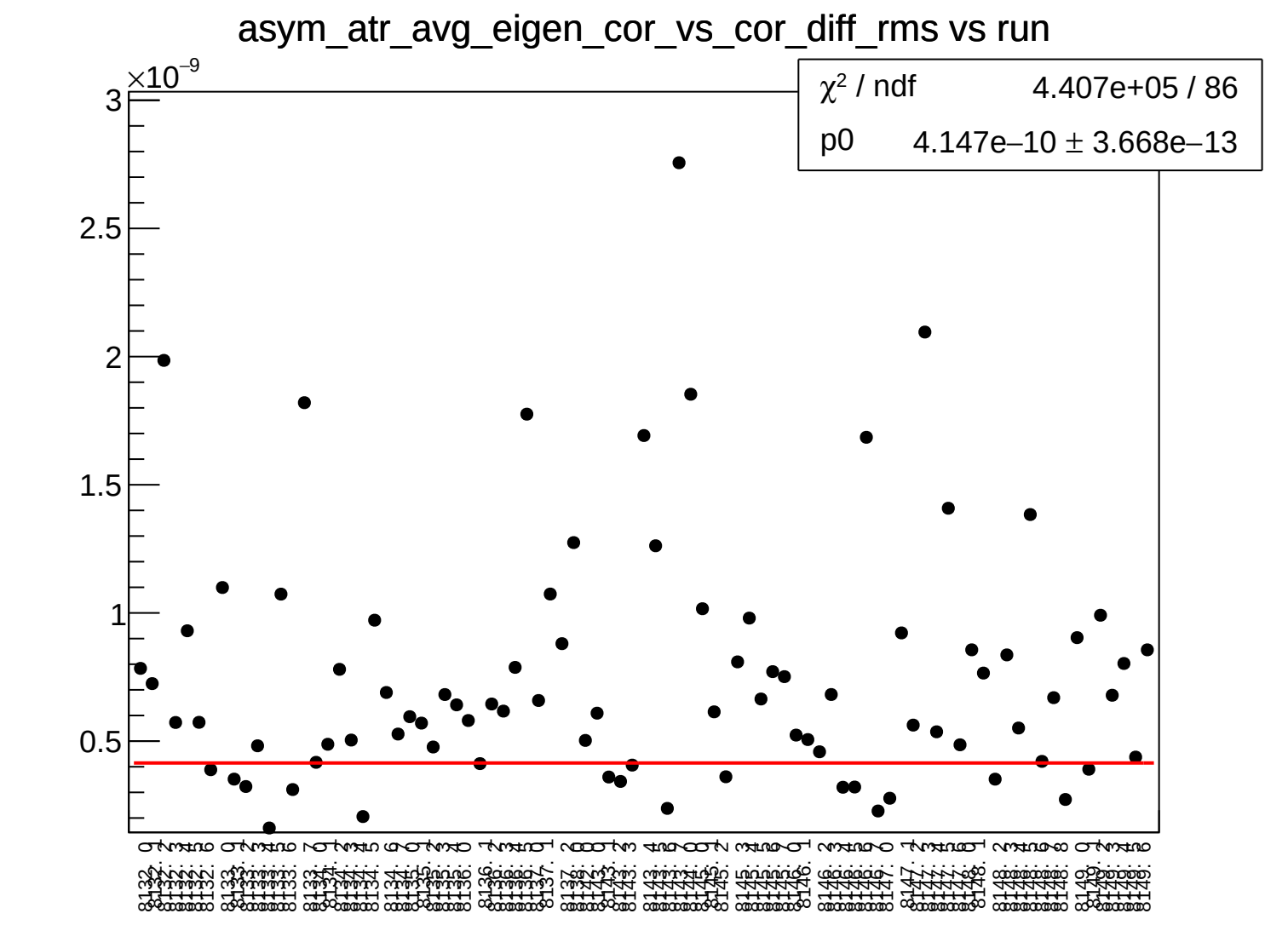

asym_atr_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.86e+04 / 86
p0 158.2 ± 0.1232
600
500
400
300
200
100

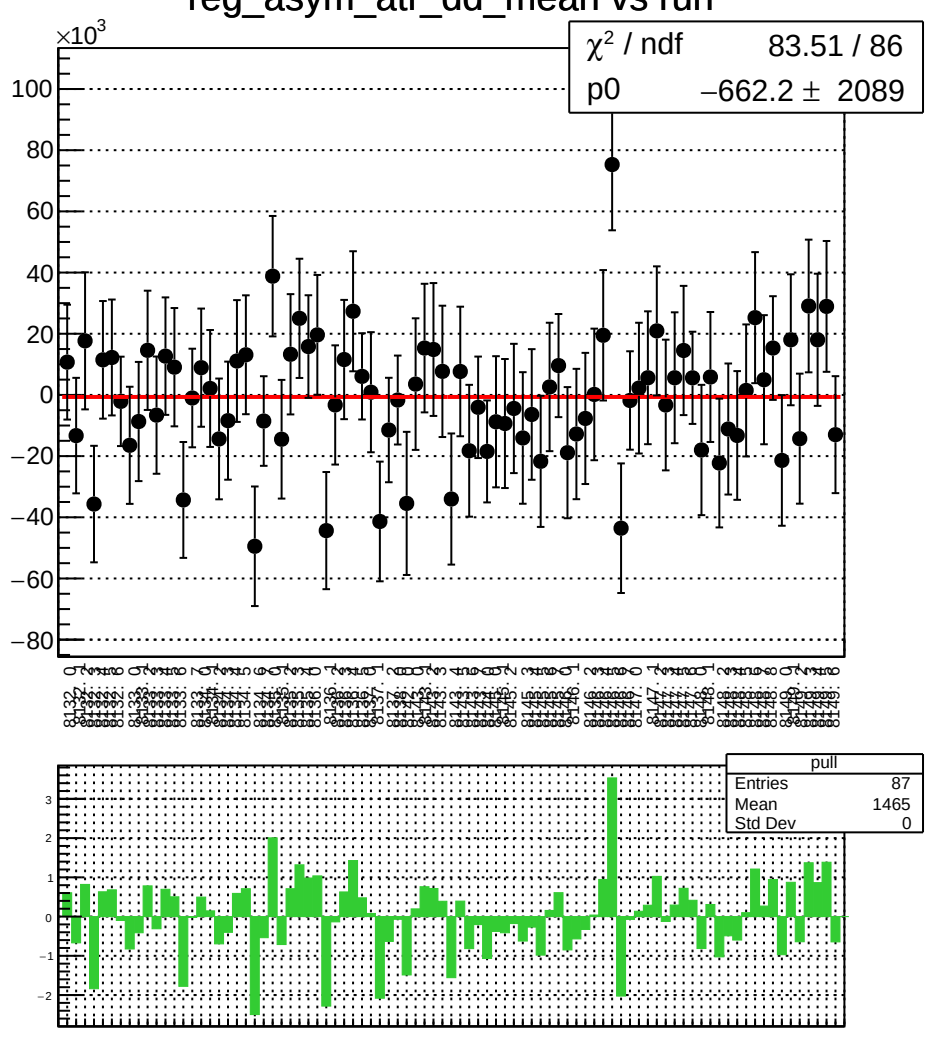

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.73 / 86
p0 0.2666 ± 0.1742
pull
Entries 87
Mean 106.8
Std Dev 0
pull1D
Entries 87
Mean −0.006743
Std Dev 0.908

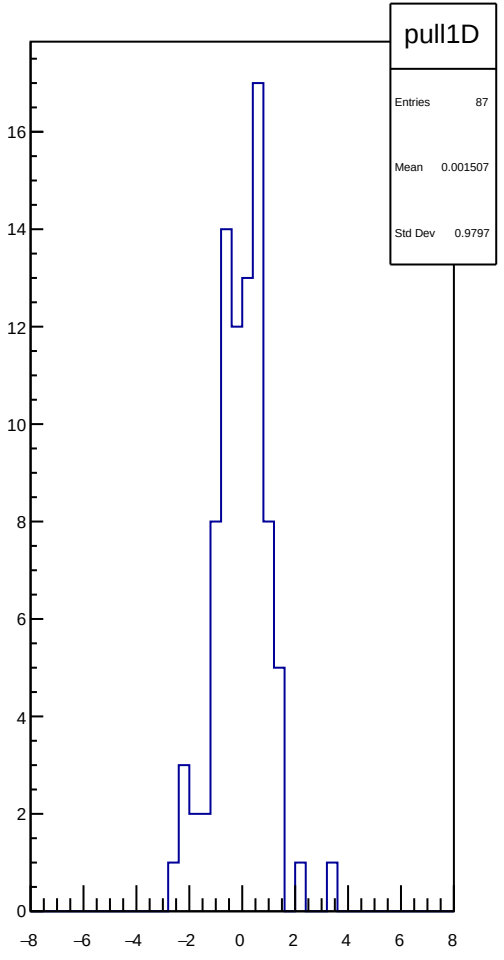

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.86e+04 / 86
p0 158.2 ± 0.1232
600
500
400
300
200
100

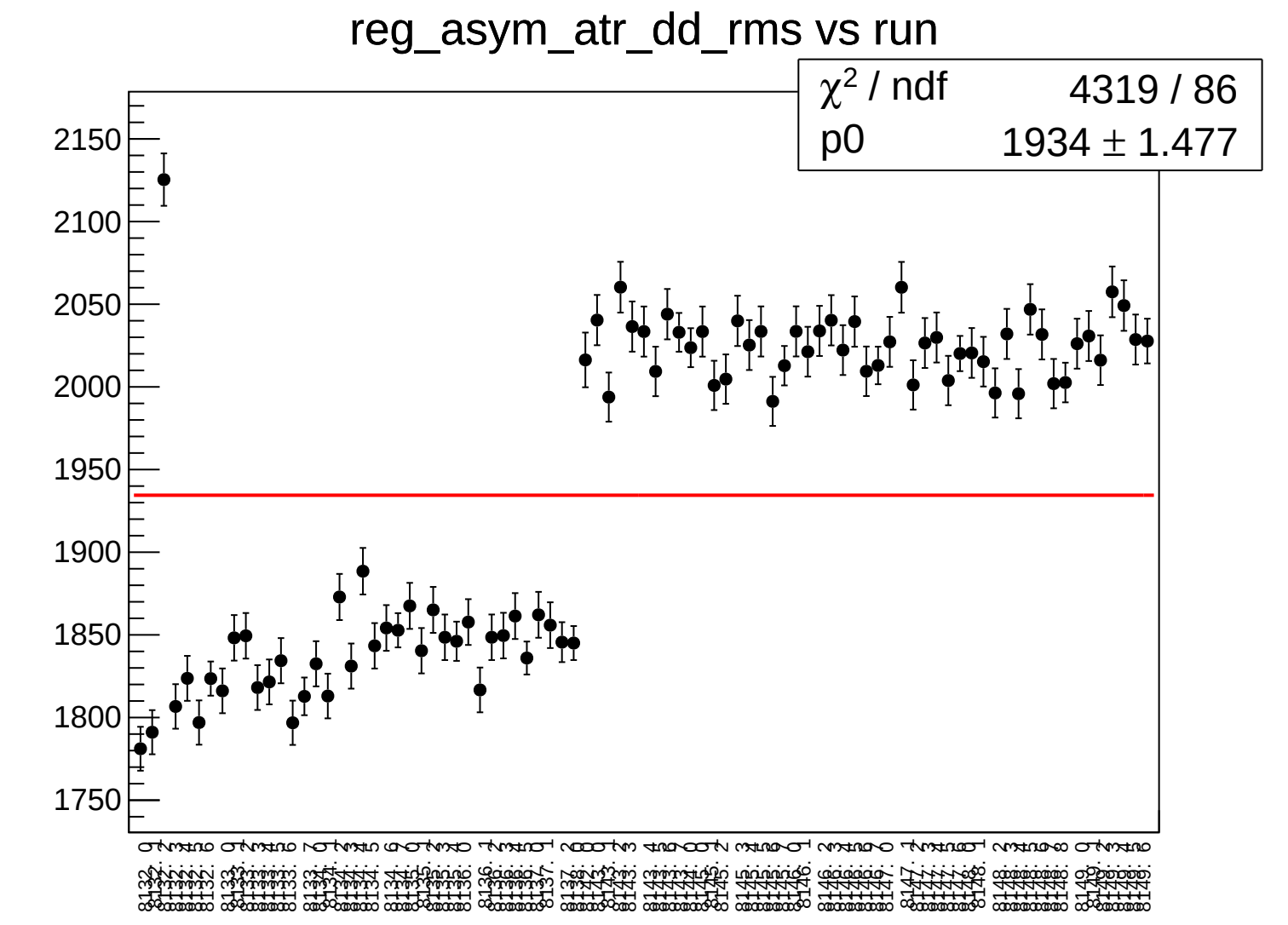

asym_atr_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.44 / 86
p0 8.928e−13 ± 5.187e−13
pull
Entries 87
Mean −565.5
Std Dev 0

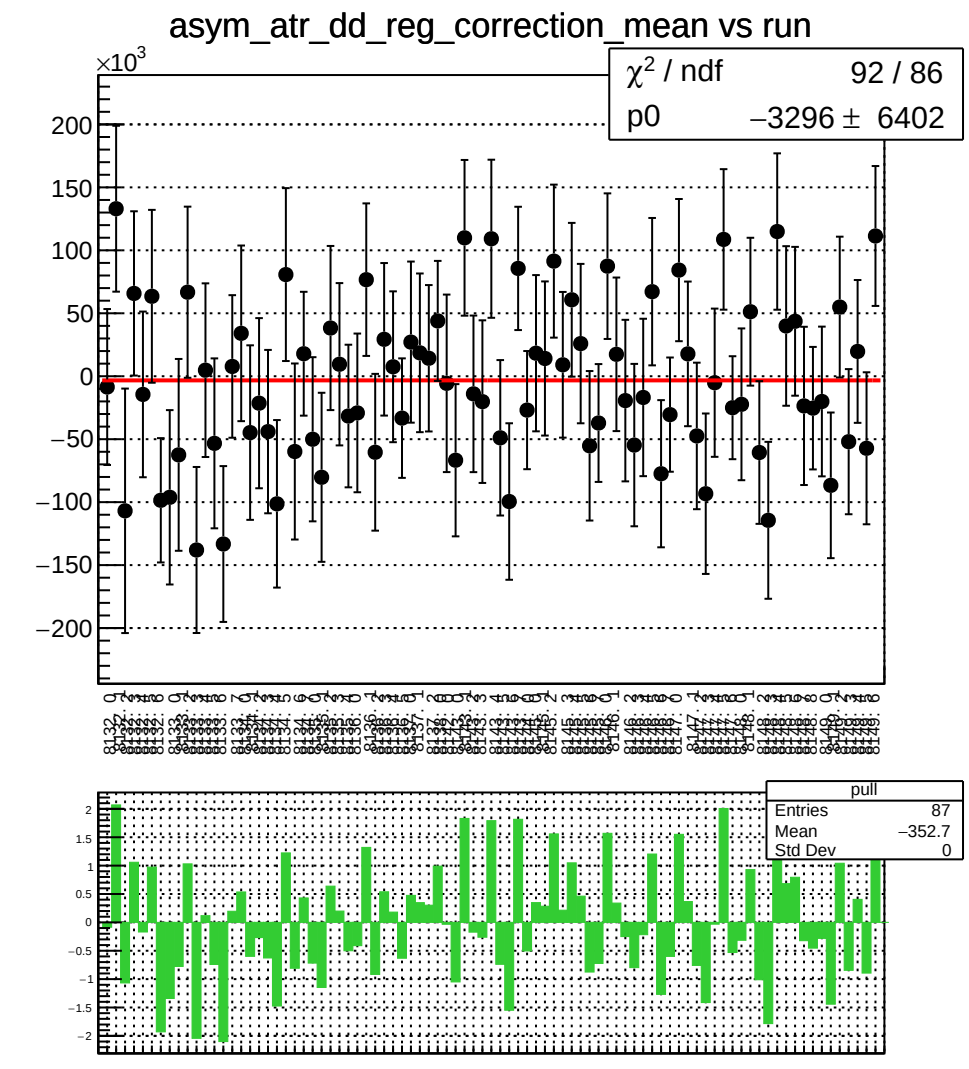

pull1D
Entries 87
Mean 0.002218
Std Dev 0.9734

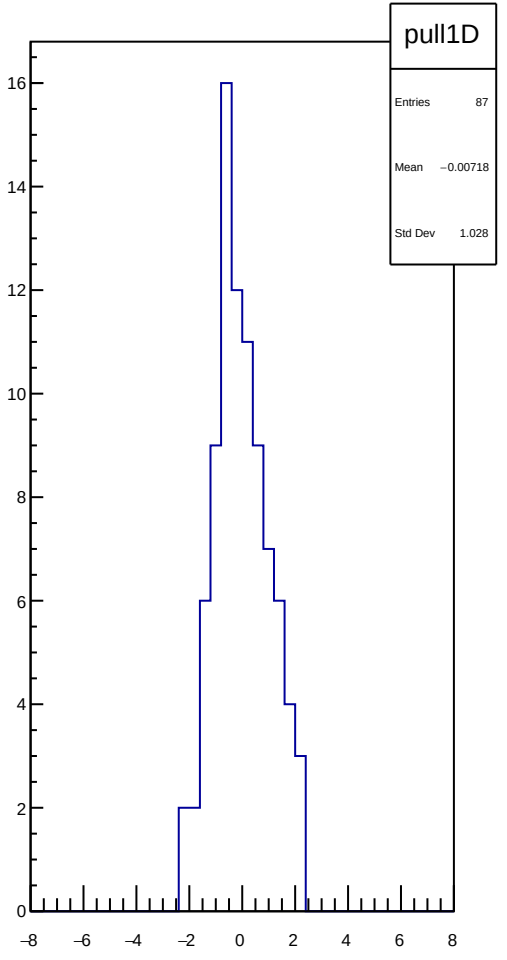

asym_atr_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
3
2.5
2
1.5
1
0.5
χ² / ndf 4.407e+05 / 86
p0 4.147e−10 ± 3.668e−13

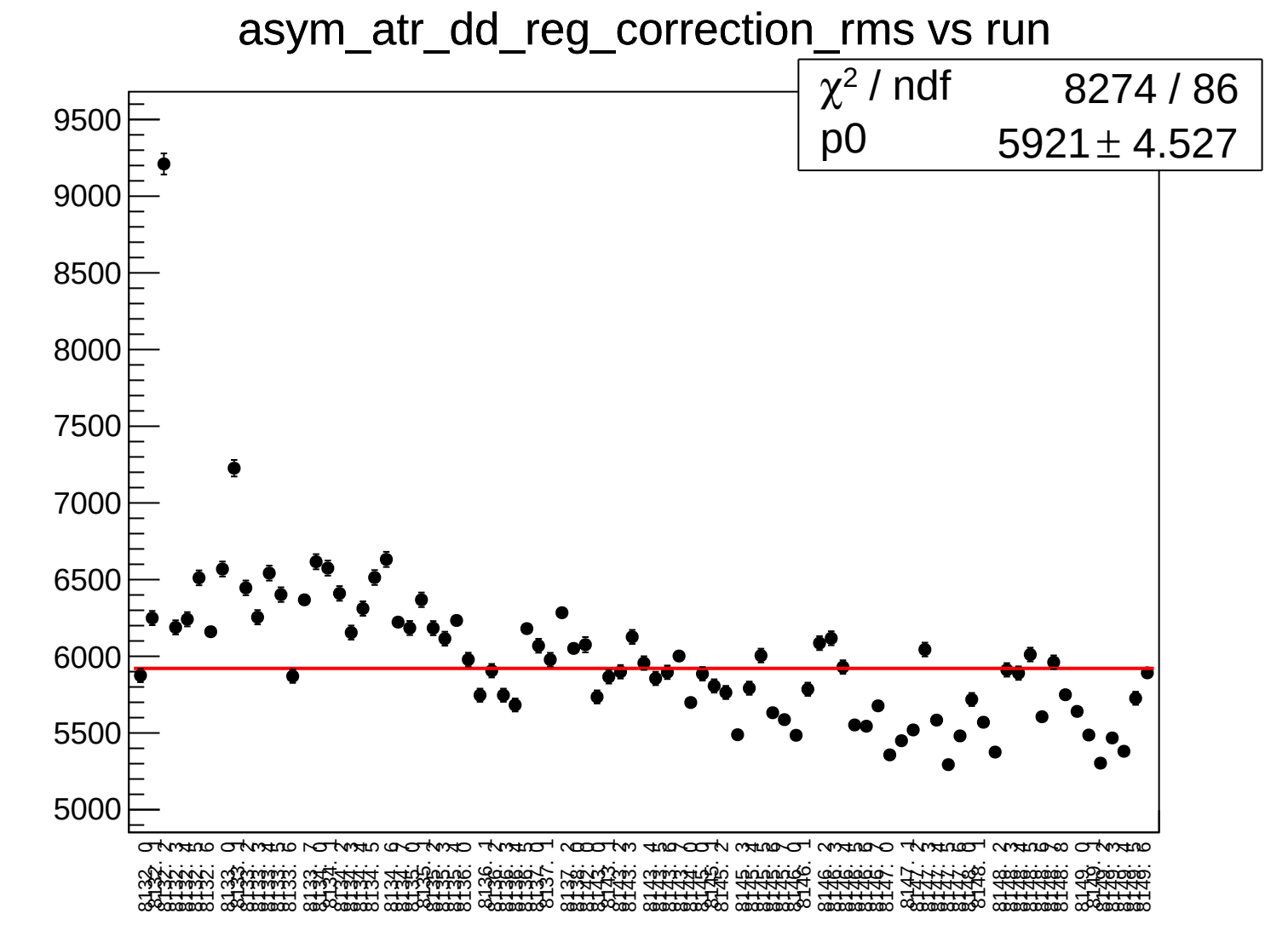

reg_asym_atr_dd_mean vs run
×10^3
χ² / ndf 83.51 / 86
p0 −662.2 ± 2089
pull
Entries 87
Mean 1465
Std Dev 0

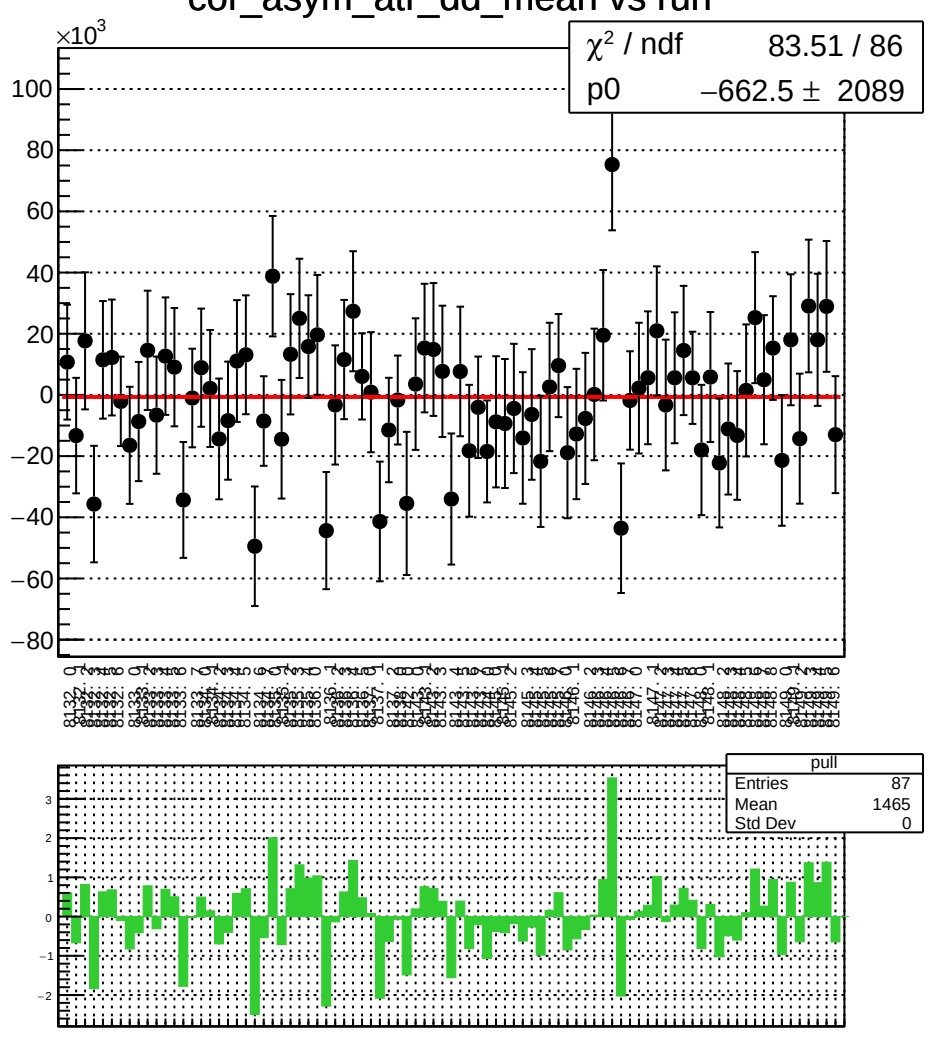

pull1D
Entries 87
Mean 0.001507
Std Dev 0.9797

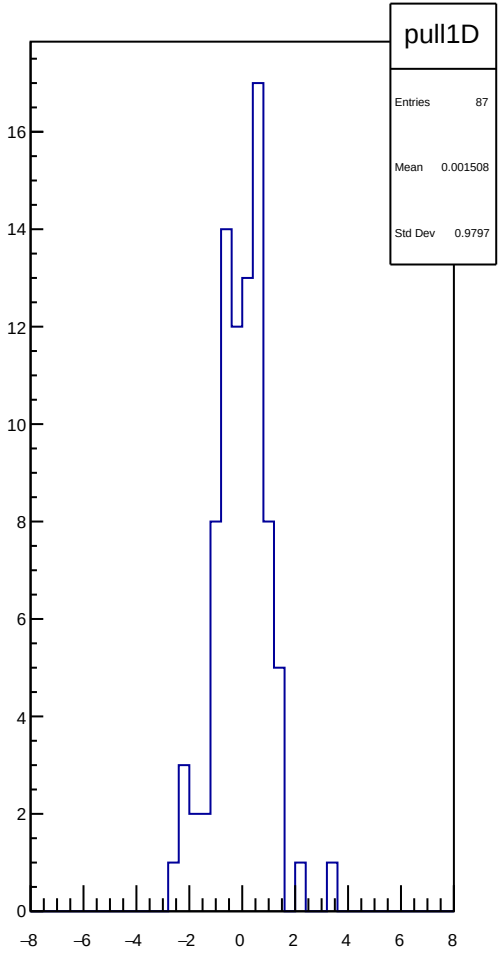

reg_asym_atr_dd_rms vs run
χ^2 / ndf 4319 / 86
p0 1934 ± 1.477
2150
2100
2050
2000
1950
1900
1850
1800
1750

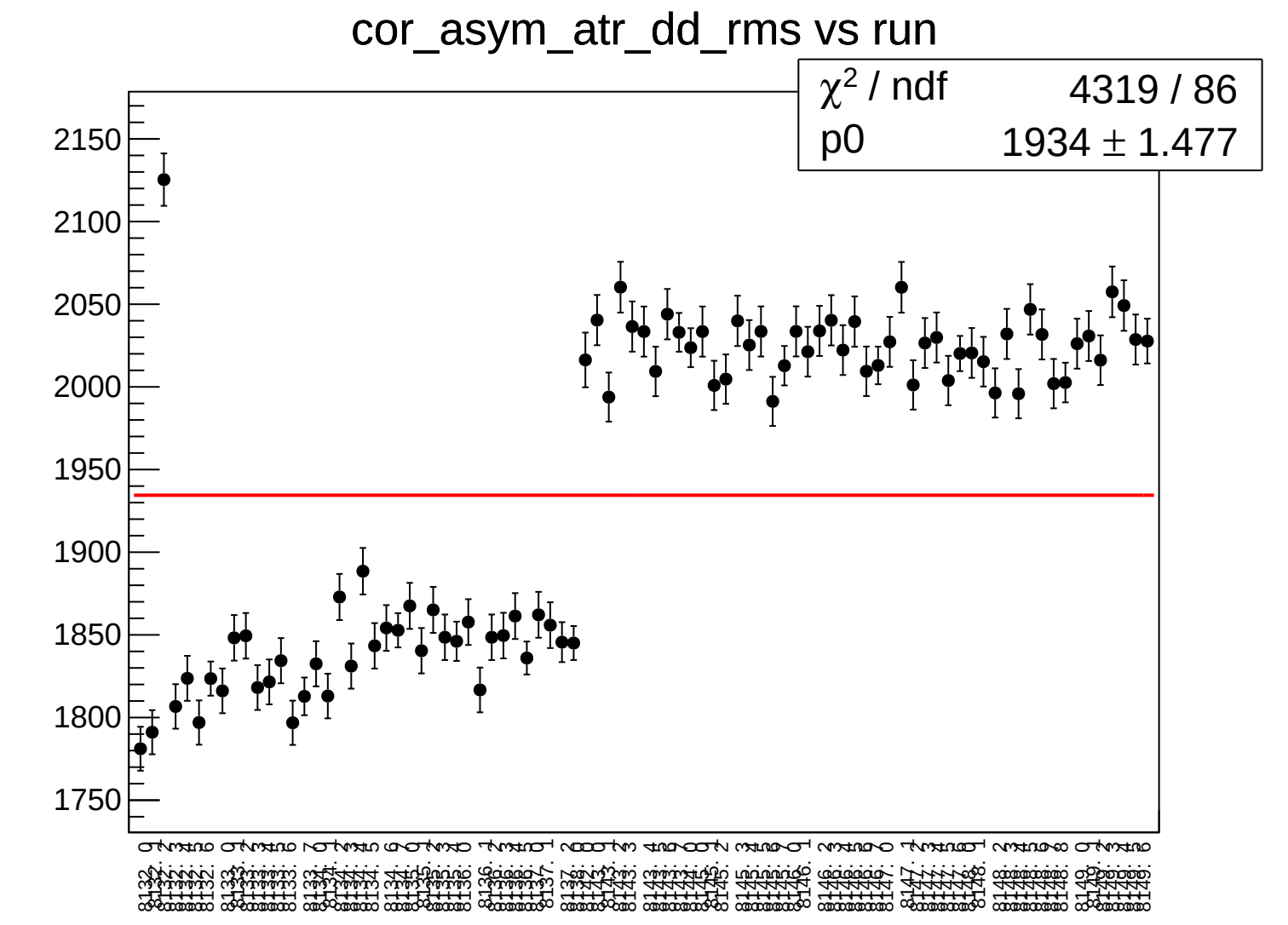

asym_atr_dd_reg_correction_mean vs run
×10^3
χ² / ndf 92 / 86
p0 −3296 ± 6402
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 87
Mean −352.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

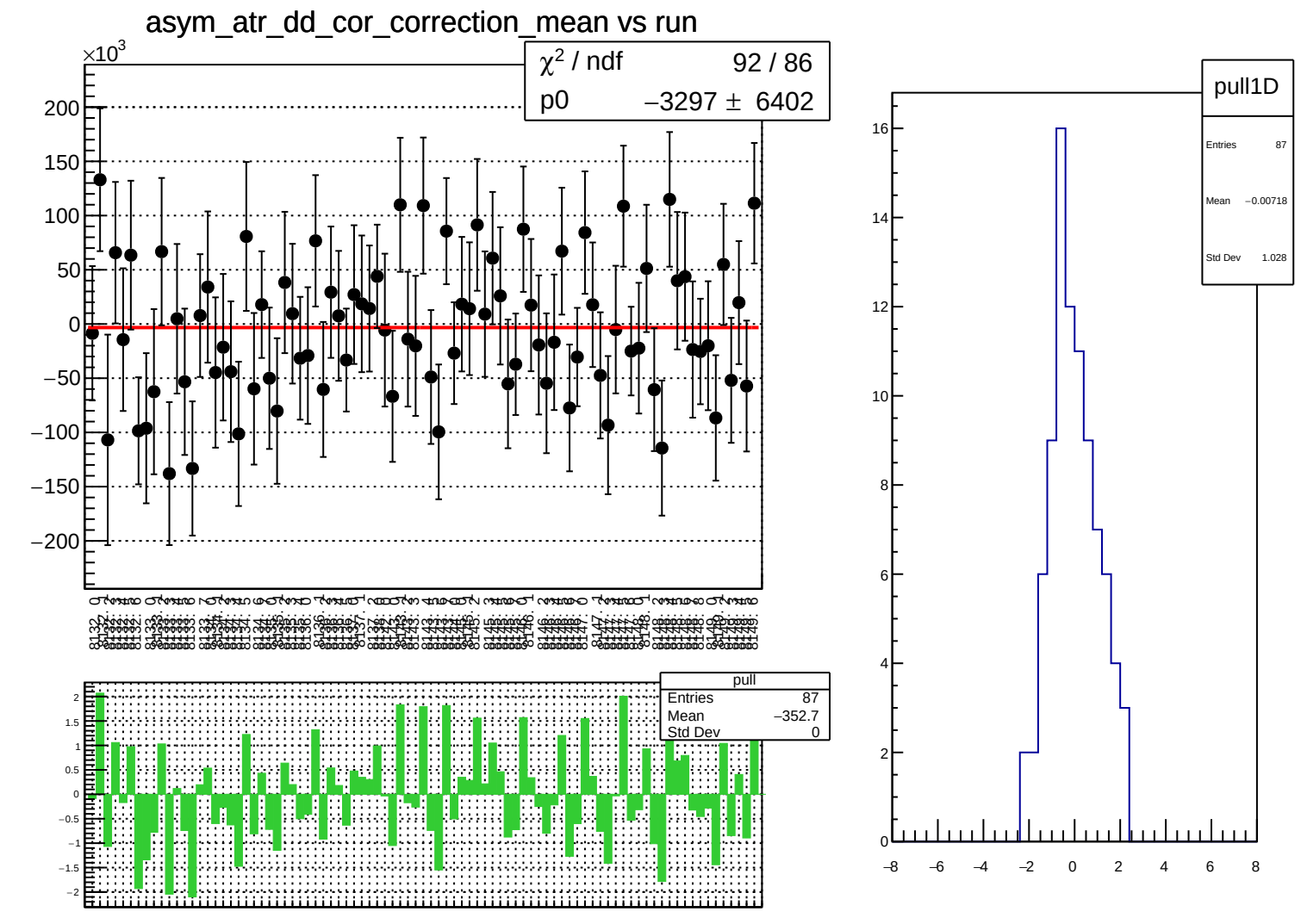

pull1D
Entries 87
Mean −0.00718
Std Dev 1.028
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

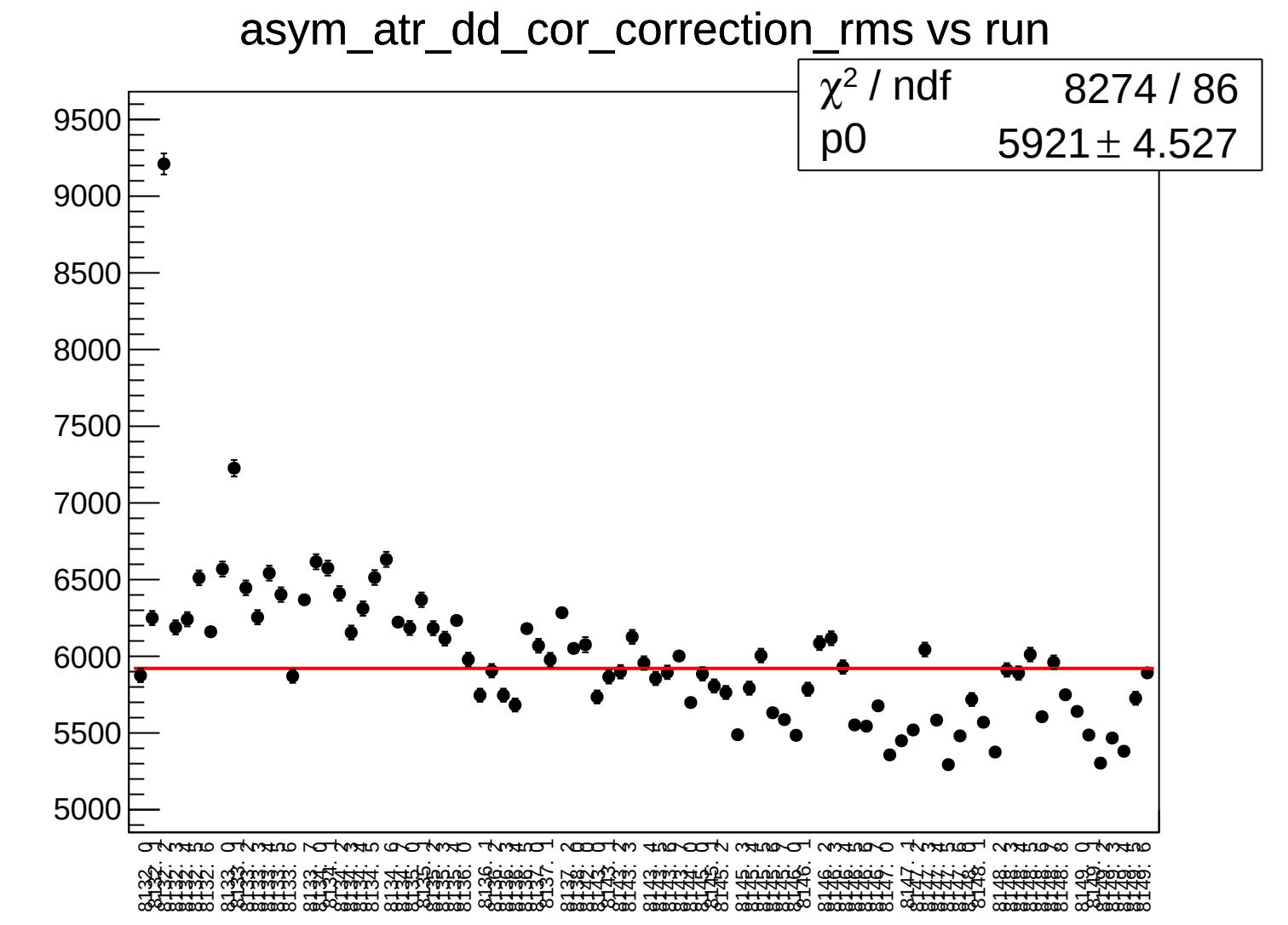

asym_atr_dd_reg_correction_rms vs run
χ² / ndf 8274 / 86
p0 5921 ± 4.527
9500
9000
8500
8000
7500
7000
6500
6000
5500
5000

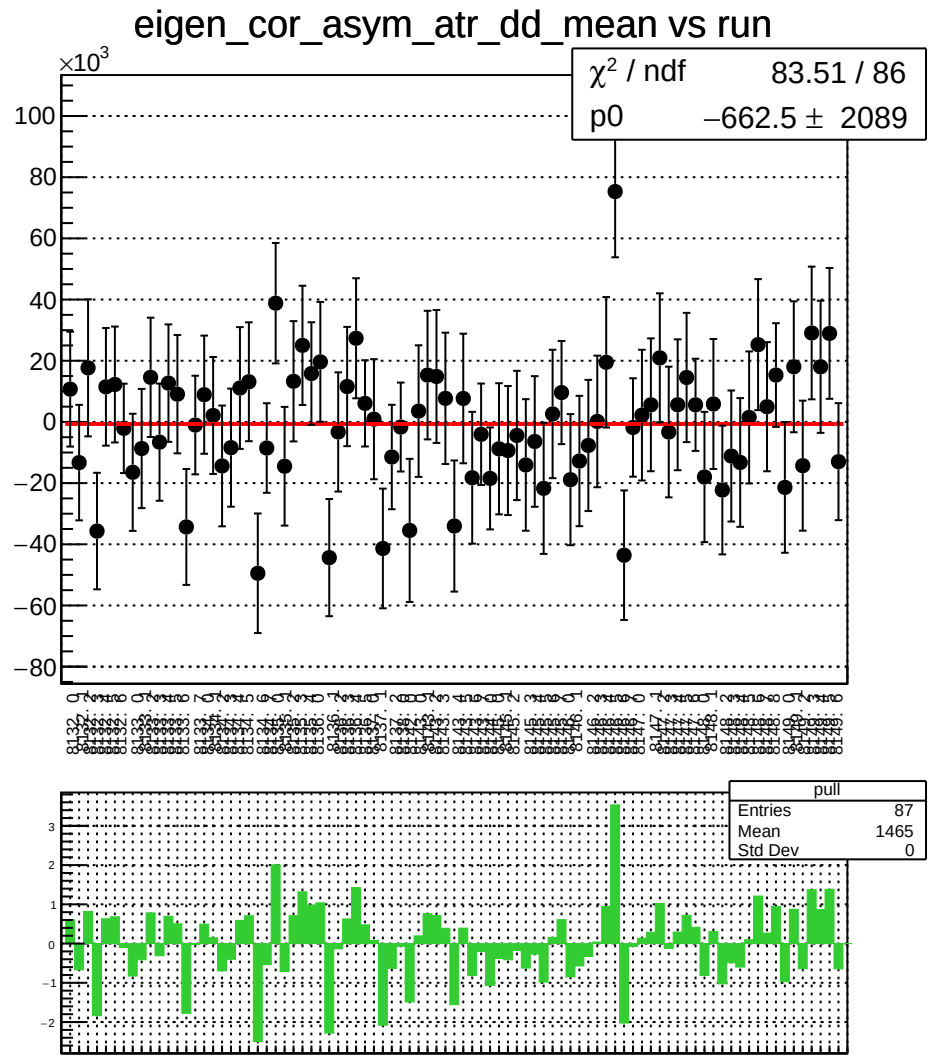

cor_asym_atr_dd_mean vs run
×10^3
χ² / ndf 83.51 / 86
p0 −662.5 ± 2089
pull
Entries 87
Mean 1465
Std Dev 0

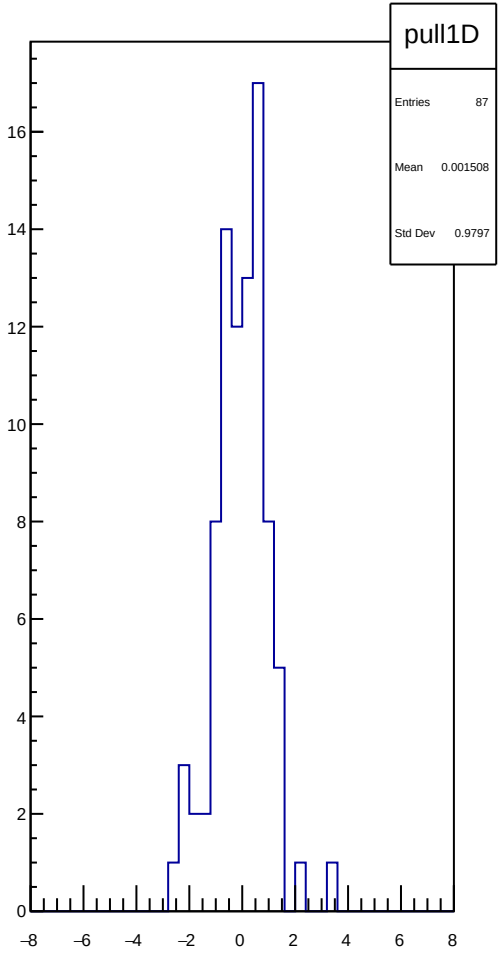

pull1D
Entries 87
Mean 0.001508
Std Dev 0.9797

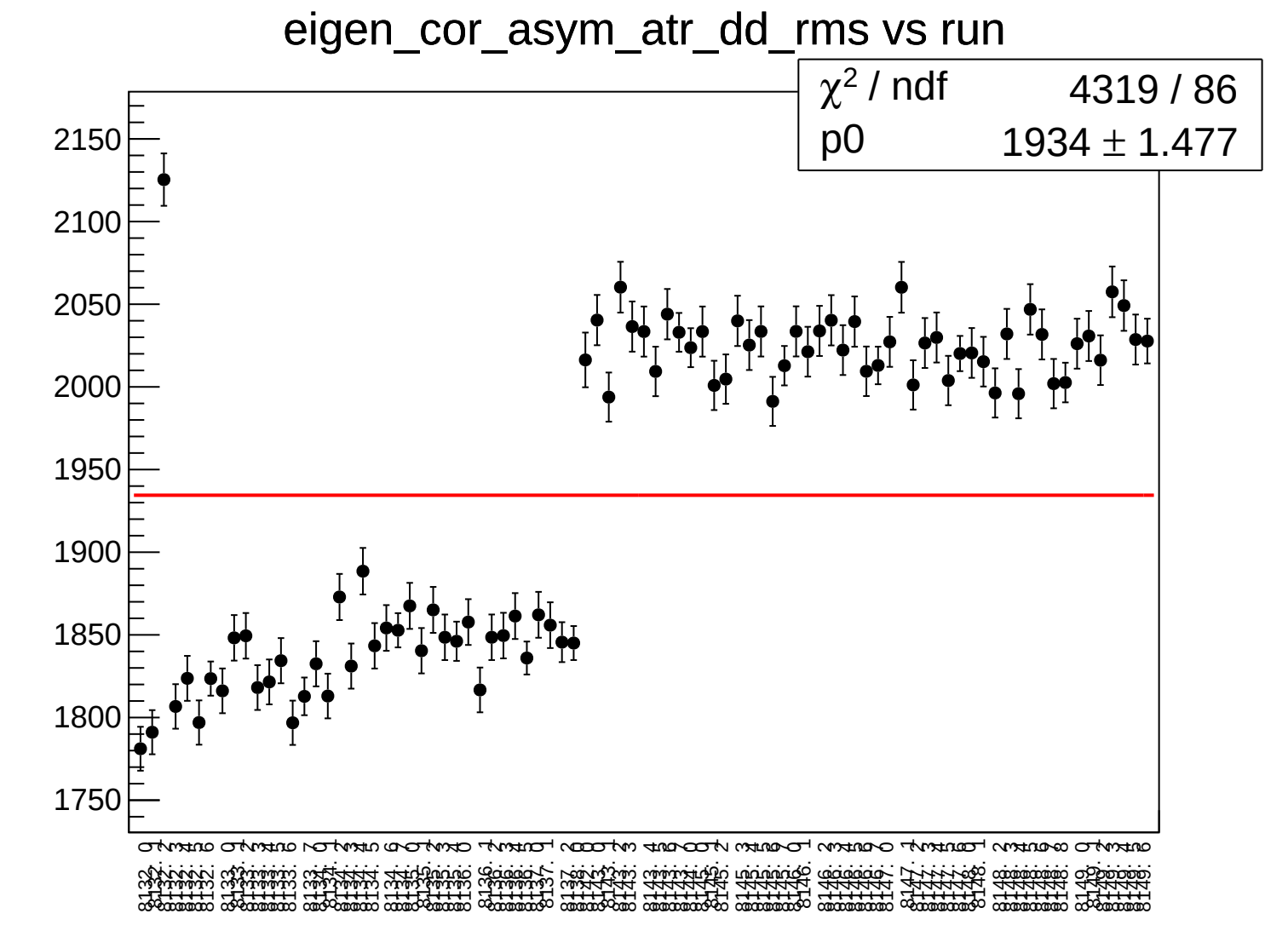

cor_asym_atr_dd_rms vs run
χ^2 / ndf 4319 / 86
p0 1934 ± 1.477
2150
2100
2050
2000
1950
1900
1850
1800
1750

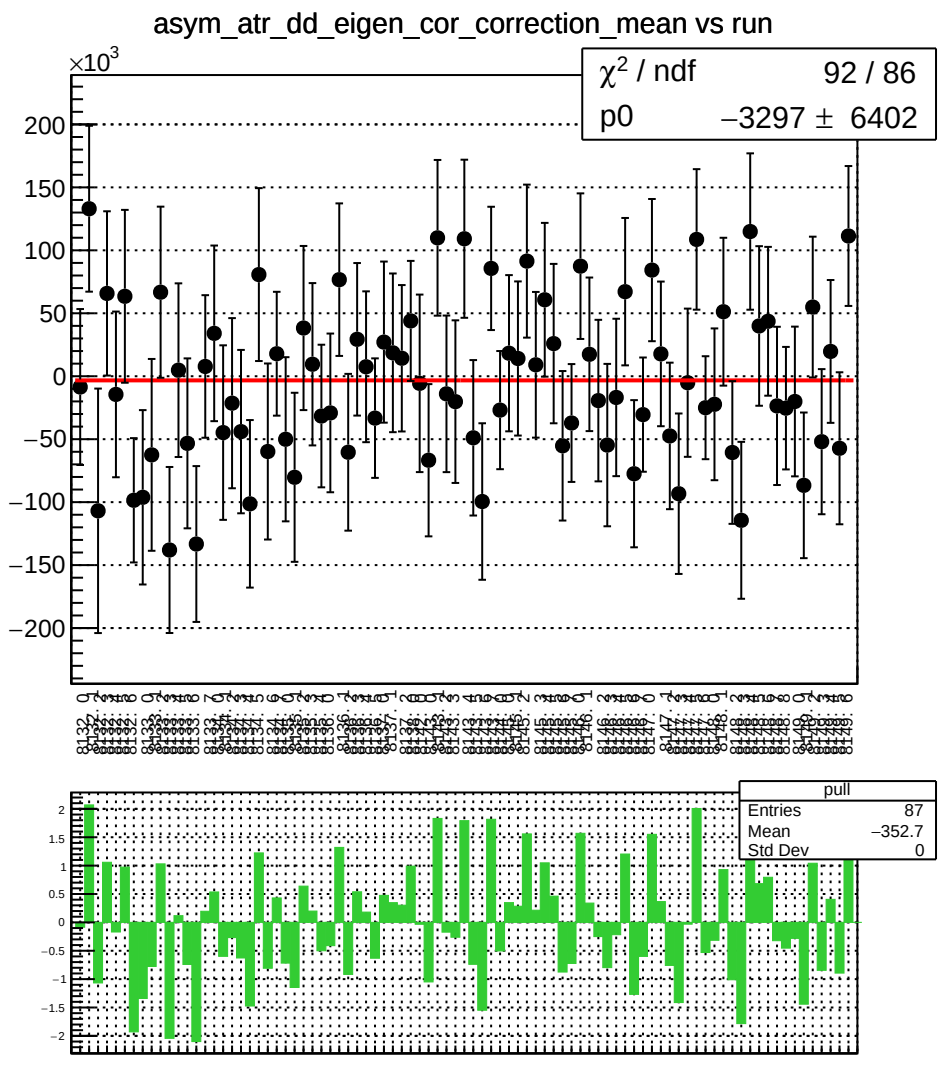

asym_atr_dd_cor_correction_mean vs run
χ² / ndf 92 / 86
p0 −3297 ± 6402
×10³
pull
Entries 87
Mean −352.7
Std Dev 0
pull1D
Entries 87
Mean −0.00718
Std Dev 1.028

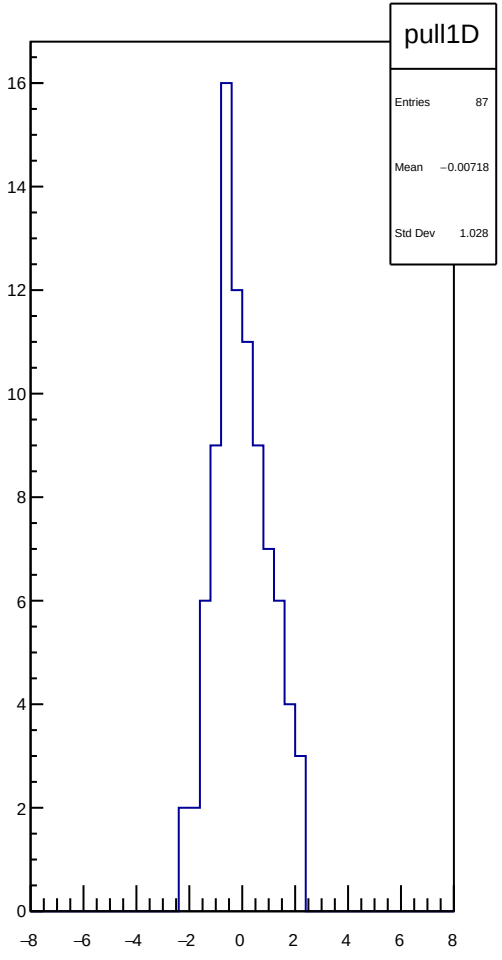

asym_atr_dd_cor_correction_rms vs run
χ² / ndf 8274 / 86
p0 5921 ± 4.527
9500
9000
8500
8000
7500
7000
6500
6000
5500
5000

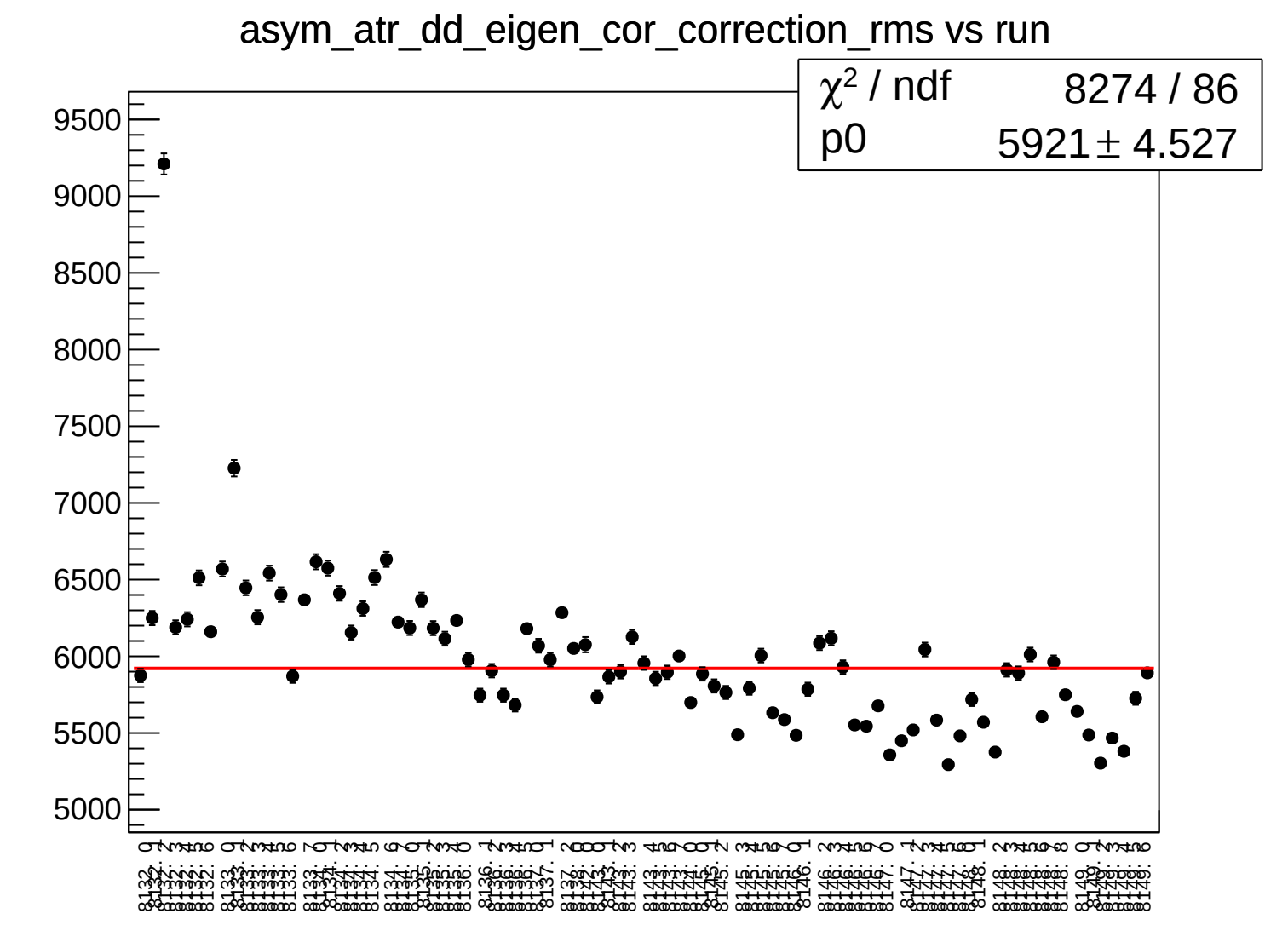

eigen_cor_asym_atr_dd_mean vs run
×10^3
χ² / ndf 83.51 / 86
p0 −662.5 ± 2089
pull
Entries 87
Mean 1465
Std Dev 0

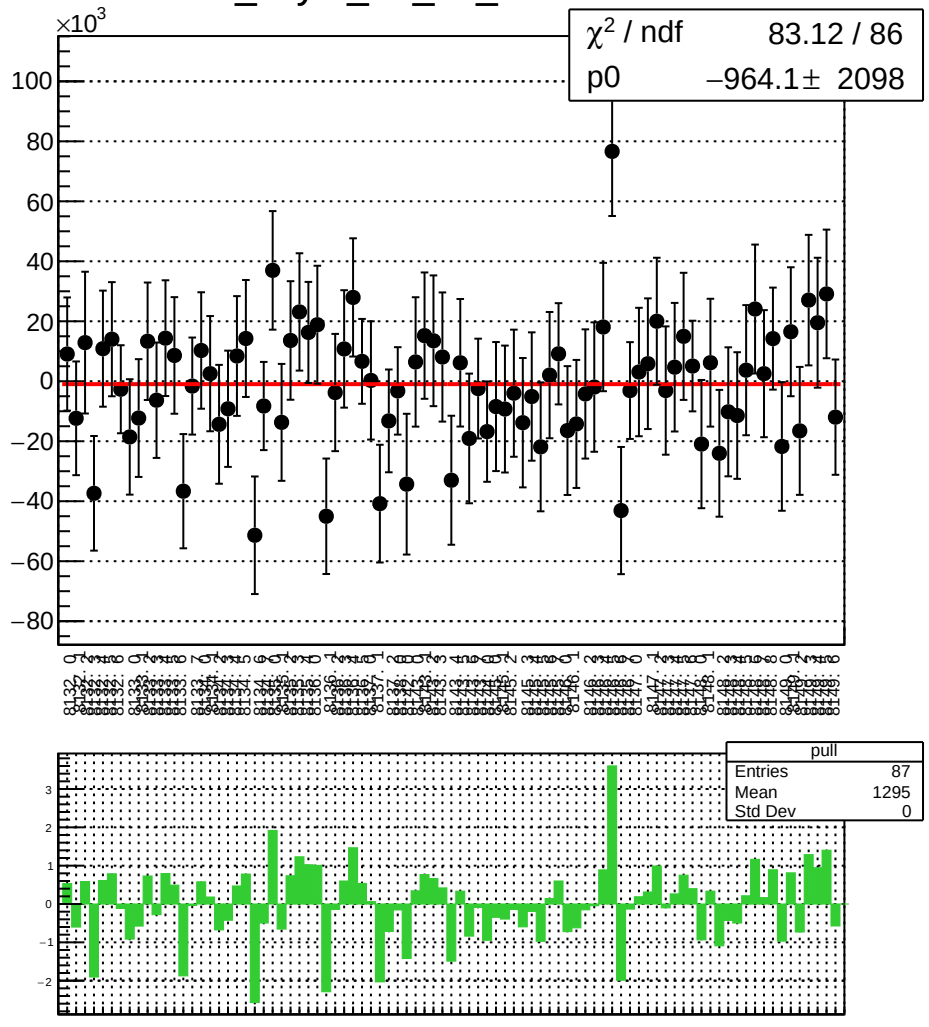

pull1D
Entries 87
Mean 0.001508
Std Dev 0.9797

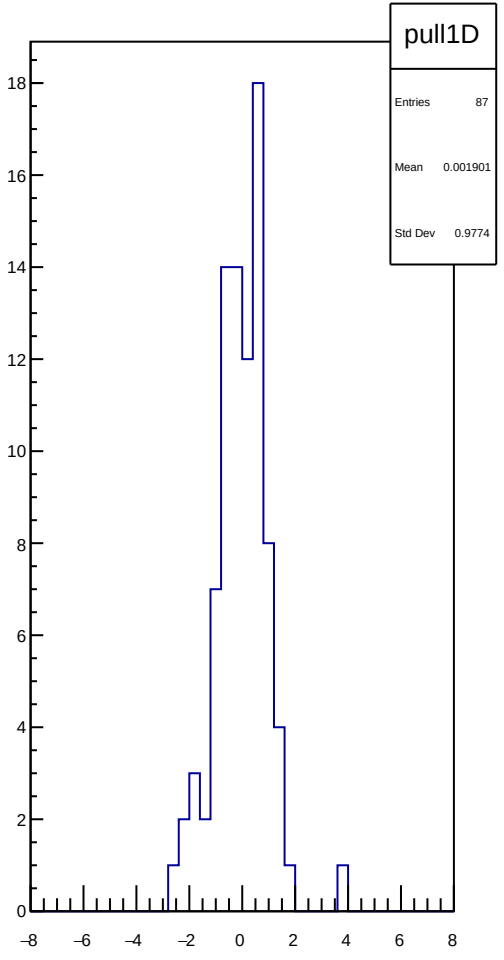

eigen_cor_asym_atr_dd_rms vs run
χ² / ndf 4319 / 86
p0 1934 ± 1.477
2150
2100
2050
2000
1950
1900
1850
1800
1750

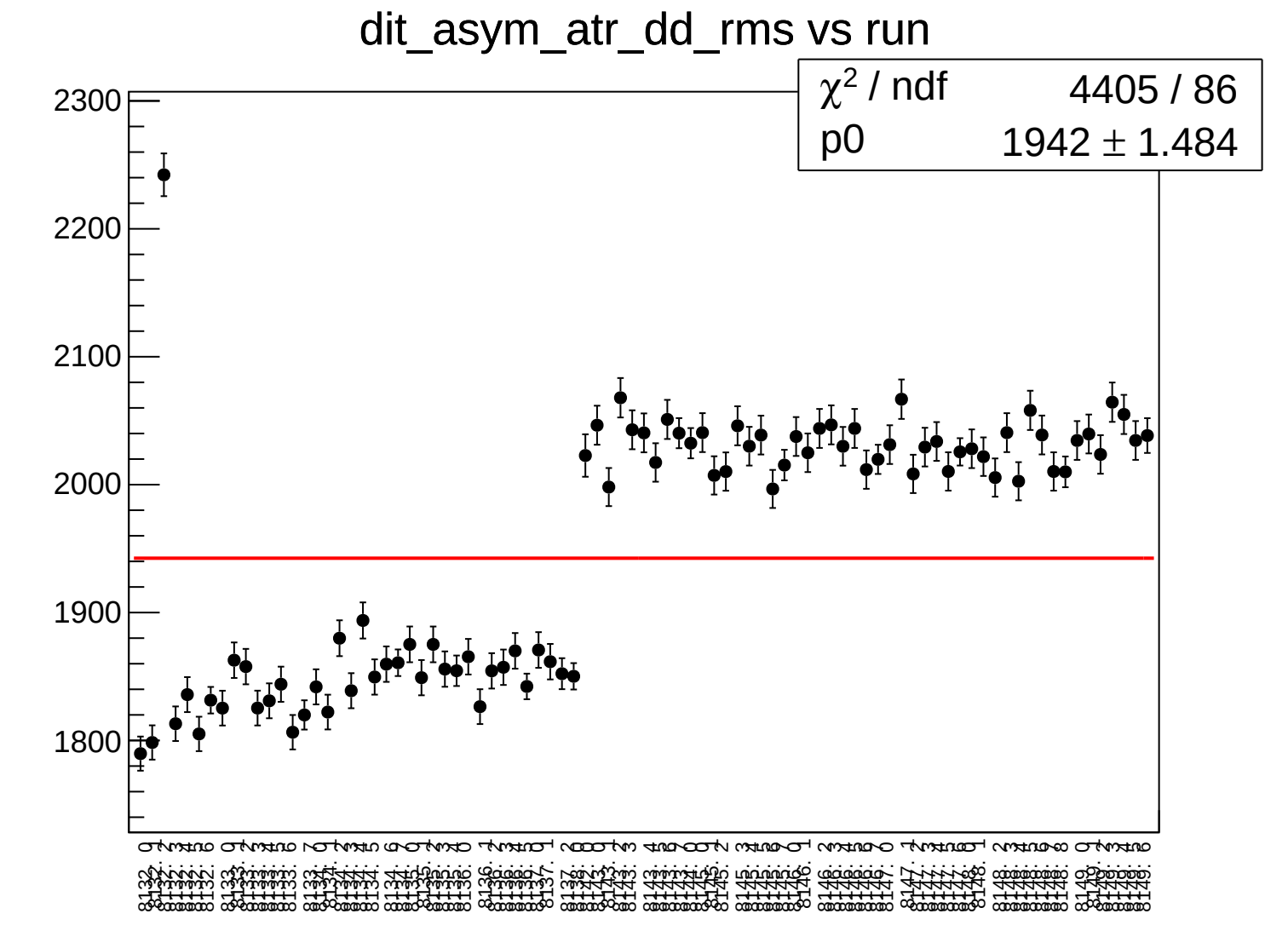

asym_atr_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 92 / 86
p0 −3297 ± 6402
pull
Entries 87
Mean −352.7
Std Dev 0

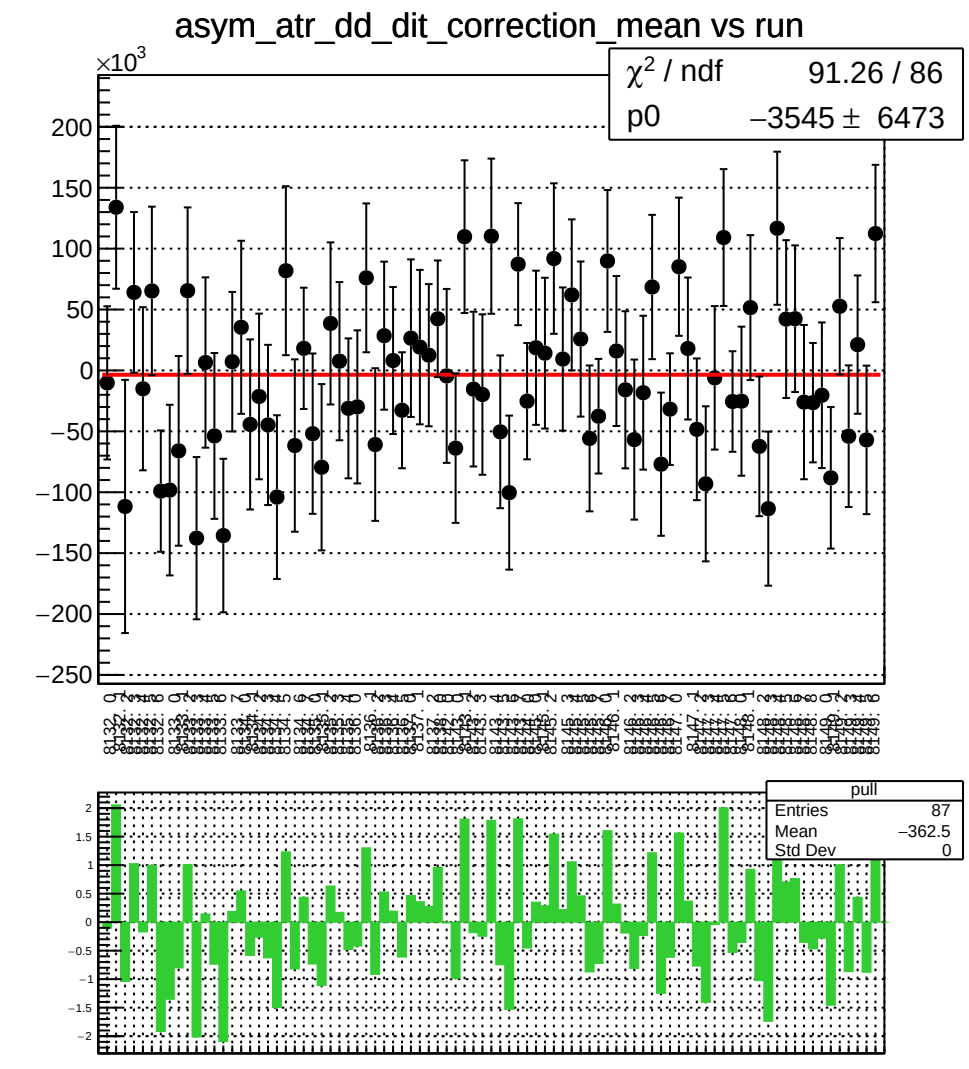

pull1D
Entries 87
Mean −0.00718
Std Dev 1.028

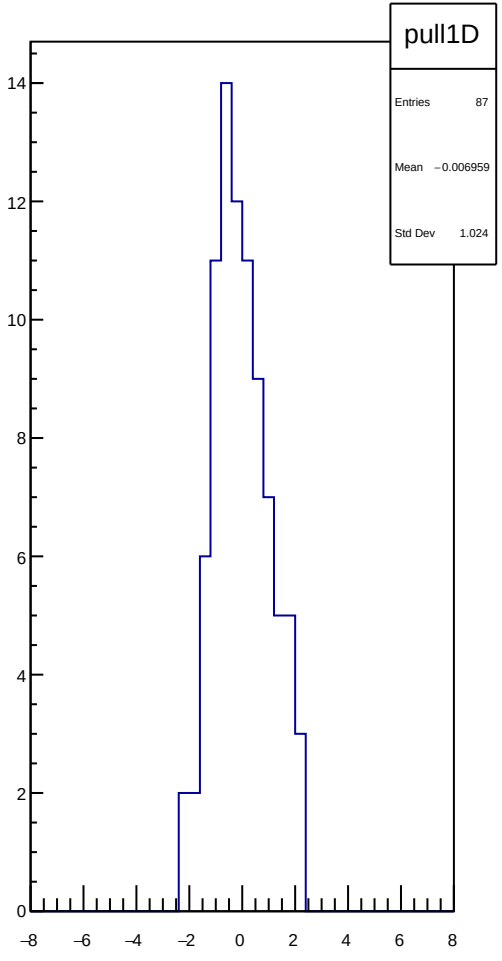

asym_atr_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 8274 / 86
p0 5921 ± 4.527
9500
9000
8500
8000
7500
7000
6500
6000
5500
5000

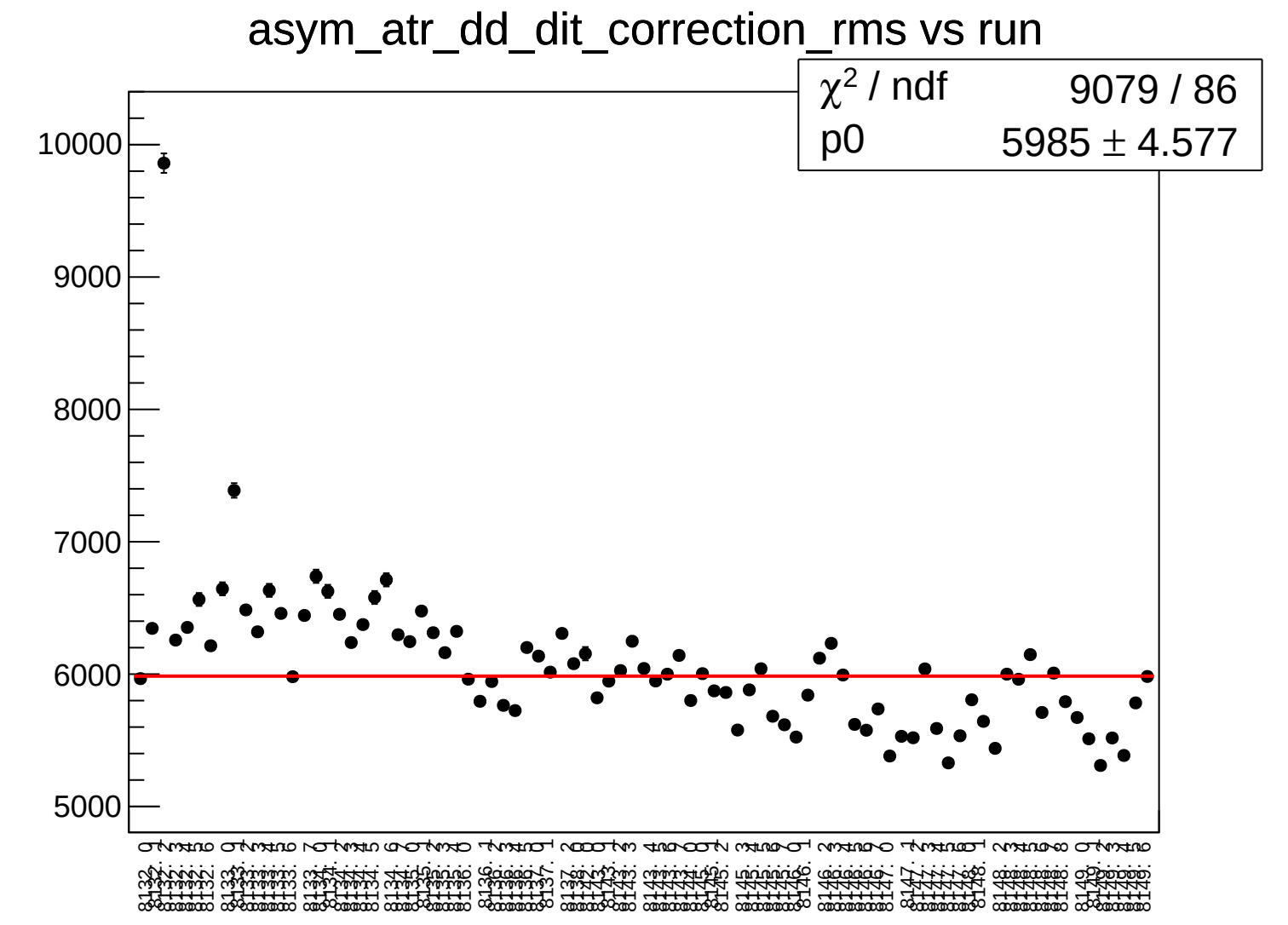

dit_asym_atr_dd_mean vs run
χ^2 / ndf 83.12 / 86
p0 −964.1± 2098
×10^3
pull
Entries 87
Mean 1295
Std Dev 0

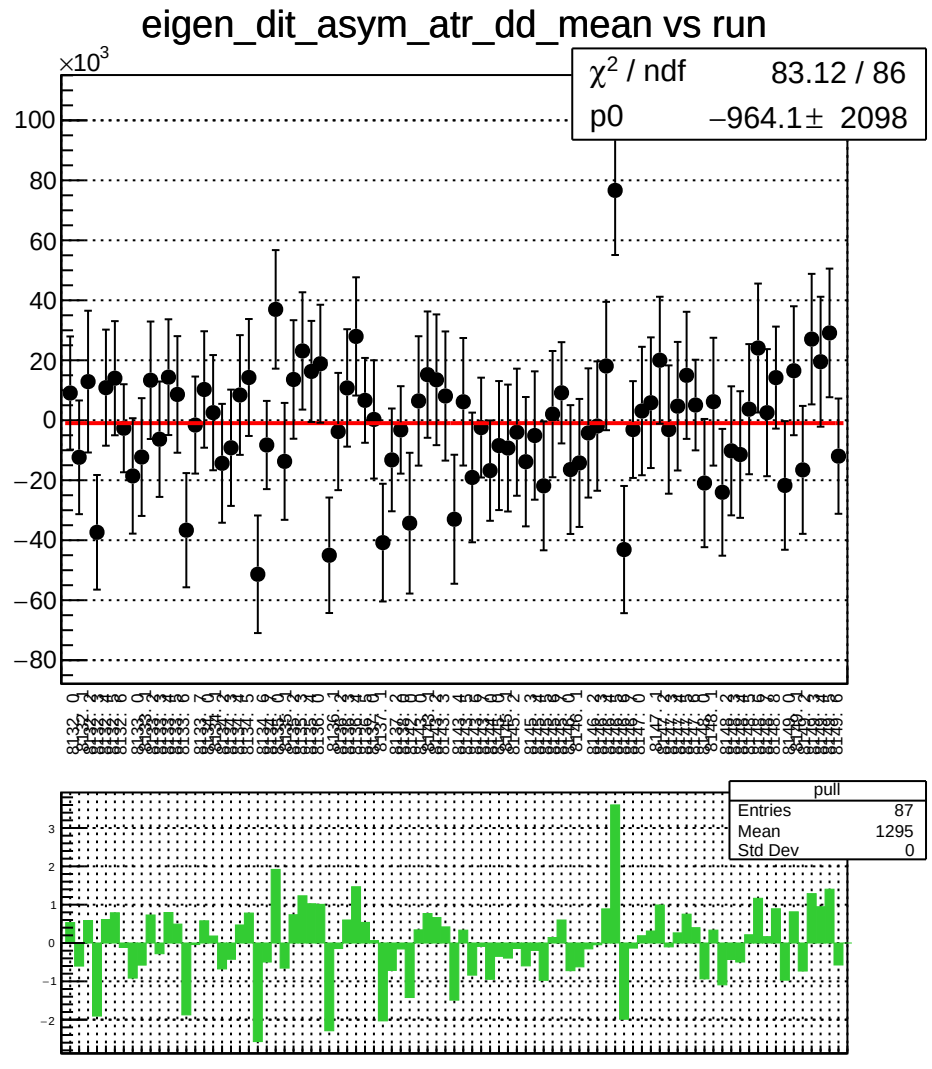

pull1D
Entries 87
Mean 0.001901
Std Dev 0.9774

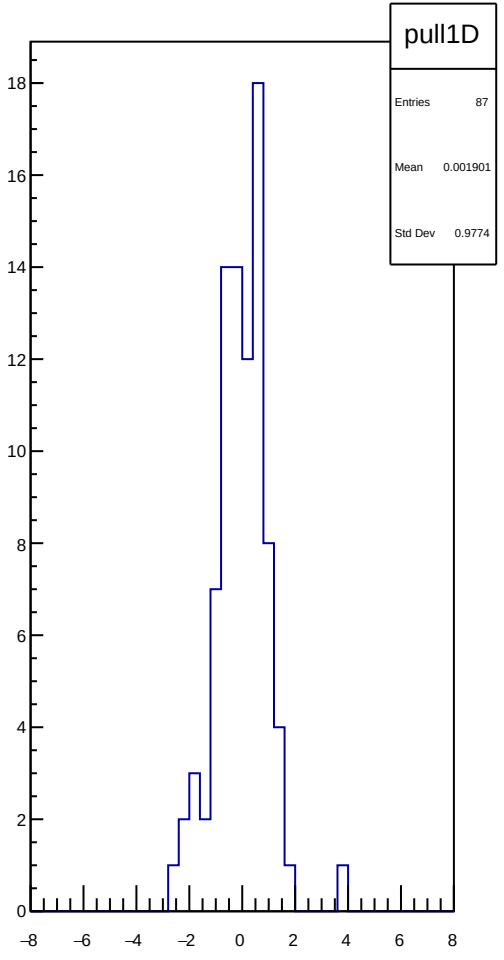

dit_asym_atr_dd_rms vs run
χ² / ndf 4405 / 86
p0 1942 ± 1.484
2300
2200
2100
2000
1900
1800

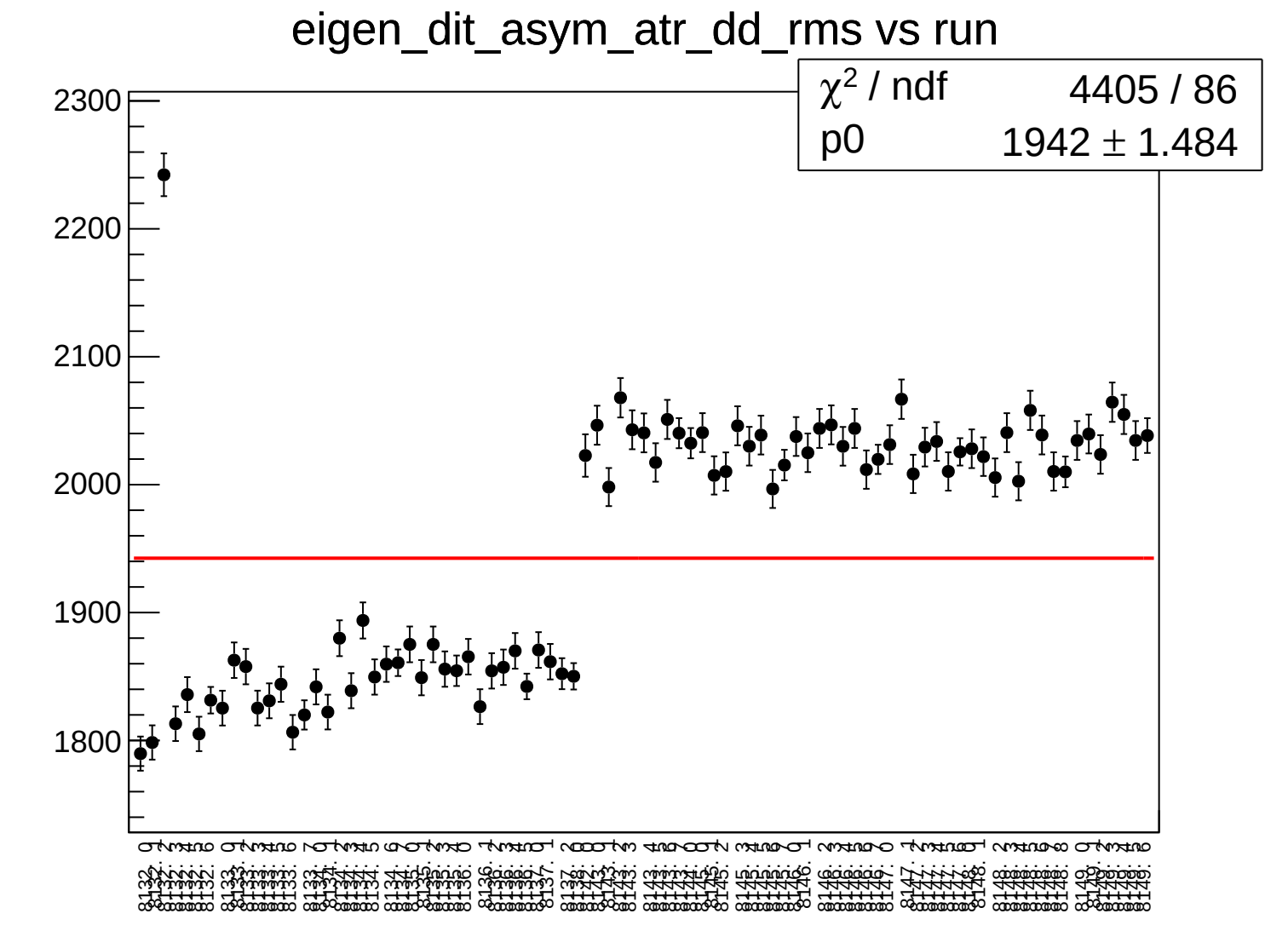

asym_atr_dd_dit_correction_mean vs run
χ² / ndf 91.26 / 86
p0 −3545 ± 6473
×10³
pull
Entries 87
Mean −362.5
Std Dev 0

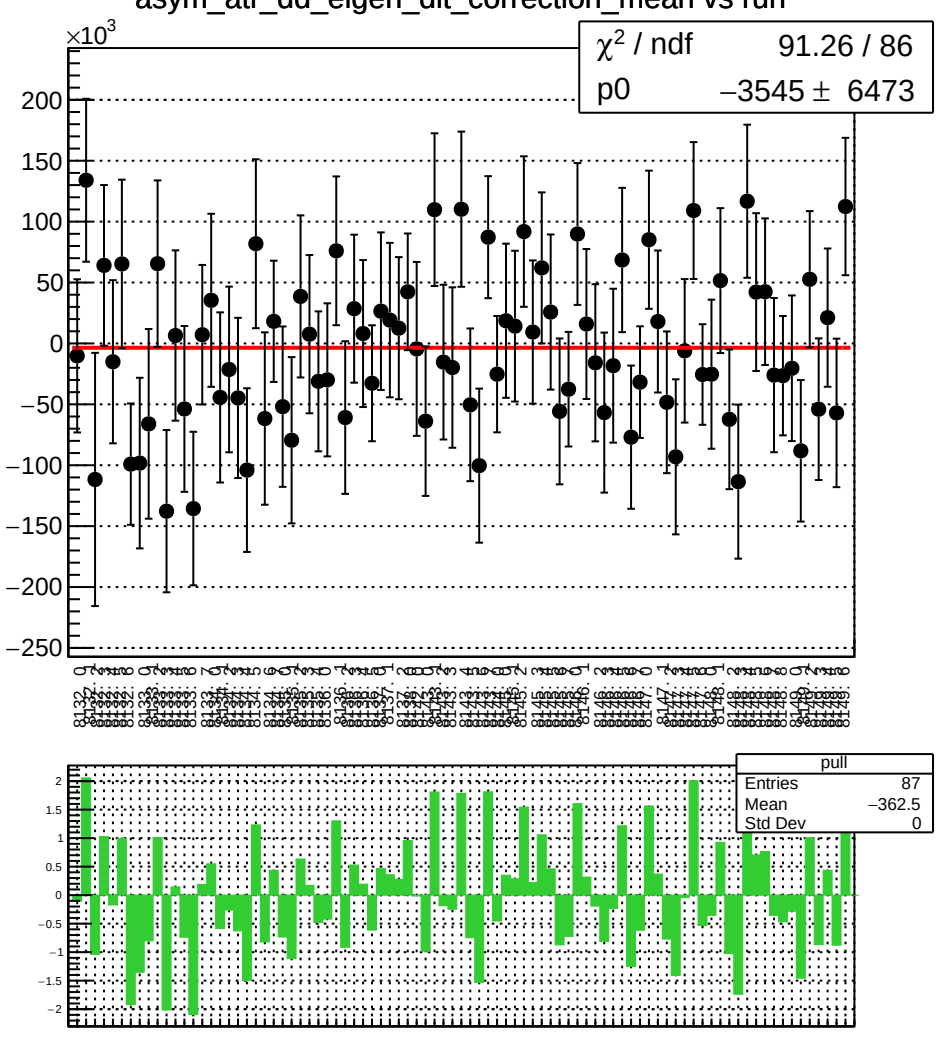

pull1D
Entries 87
Mean −0.006959
Std Dev 1.024

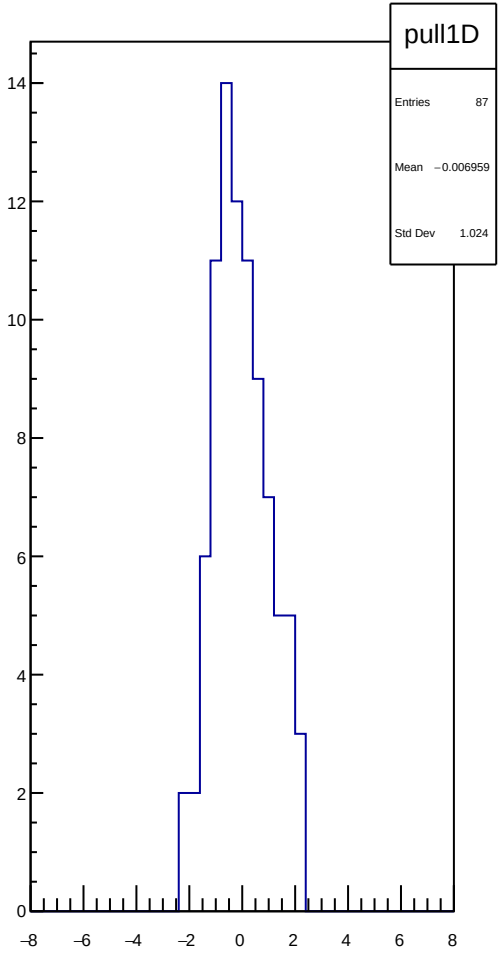

asym_atr_dd_dit_correction_rms vs run
χ^2 / ndf 9079 / 86
p0 5985 ± 4.577
10000
9000
8000
7000
6000
5000

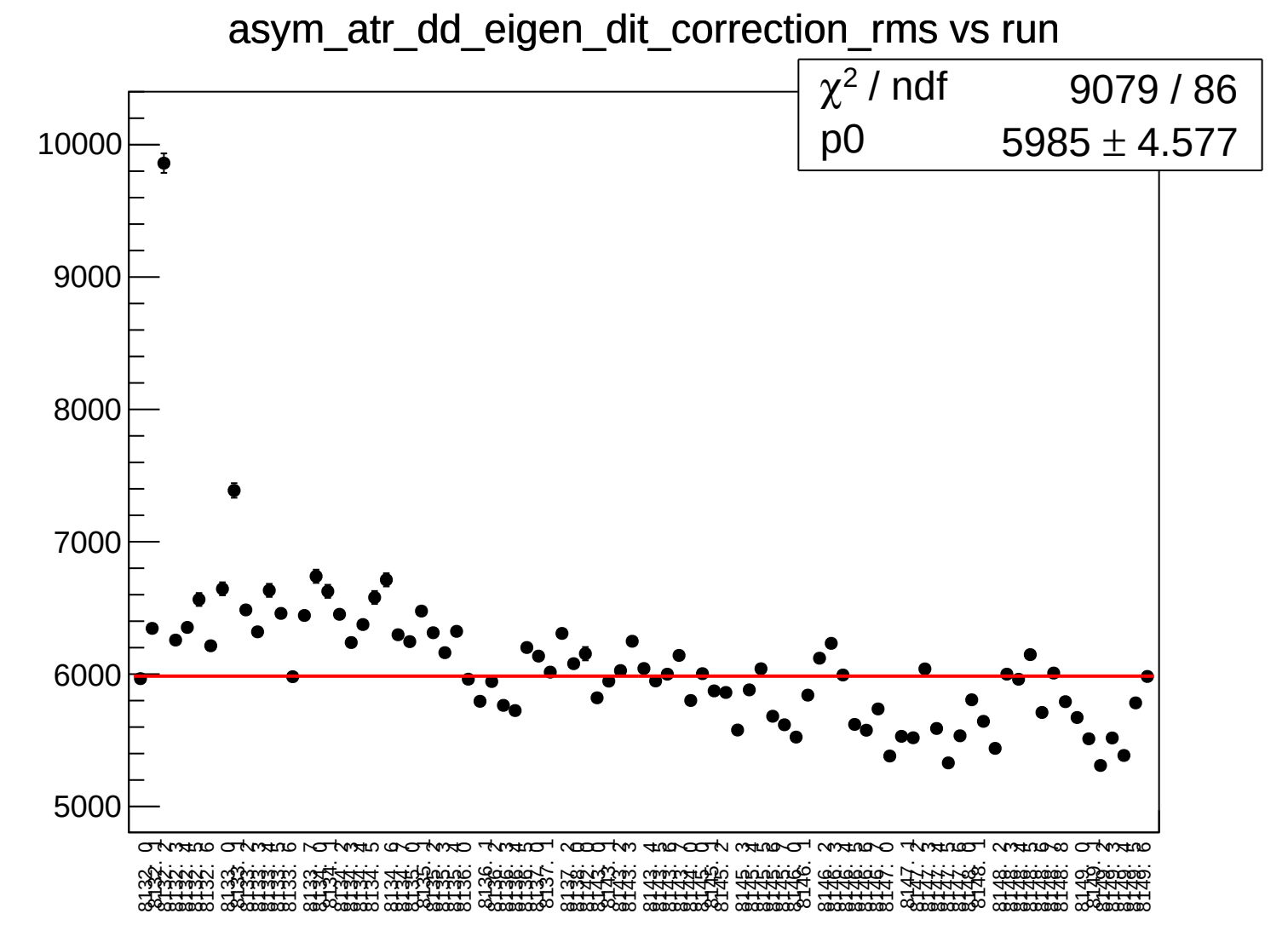

eigen_dit_asym_atr_dd_mean vs run
χ² / ndf 83.12 / 86
p0 −964.1± 2098
×10³
pull
Entries 87
Mean 1295
Std Dev 0

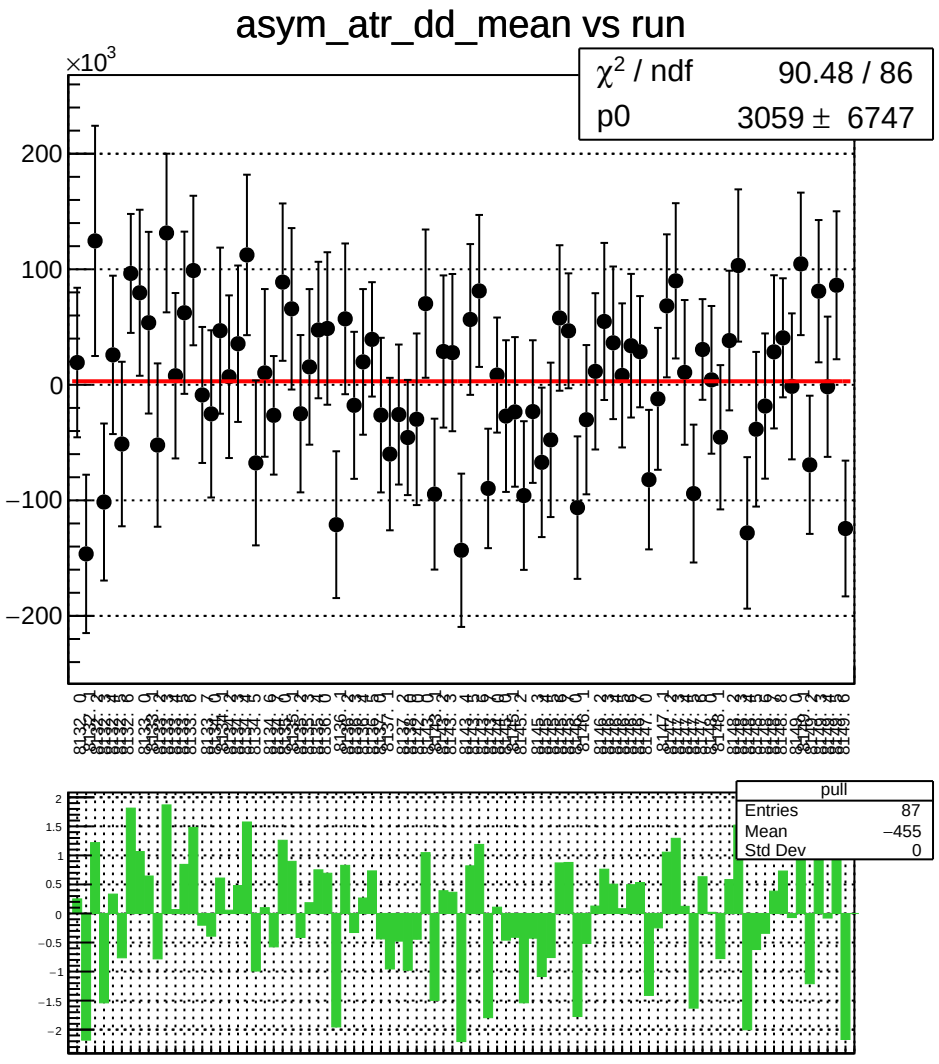

pull1D
Entries 87
Mean 0.001901
Std Dev 0.9774

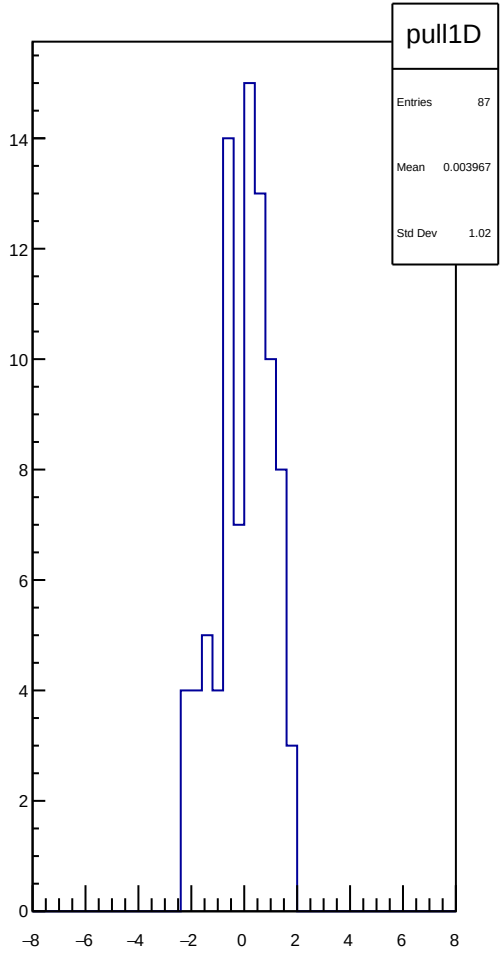

eigen_dit_asym_atr_dd_rms vs run
χ² / ndf 4405 / 86
p0 1942 ± 1.484
2300
2200
2100
2000
1900
1800

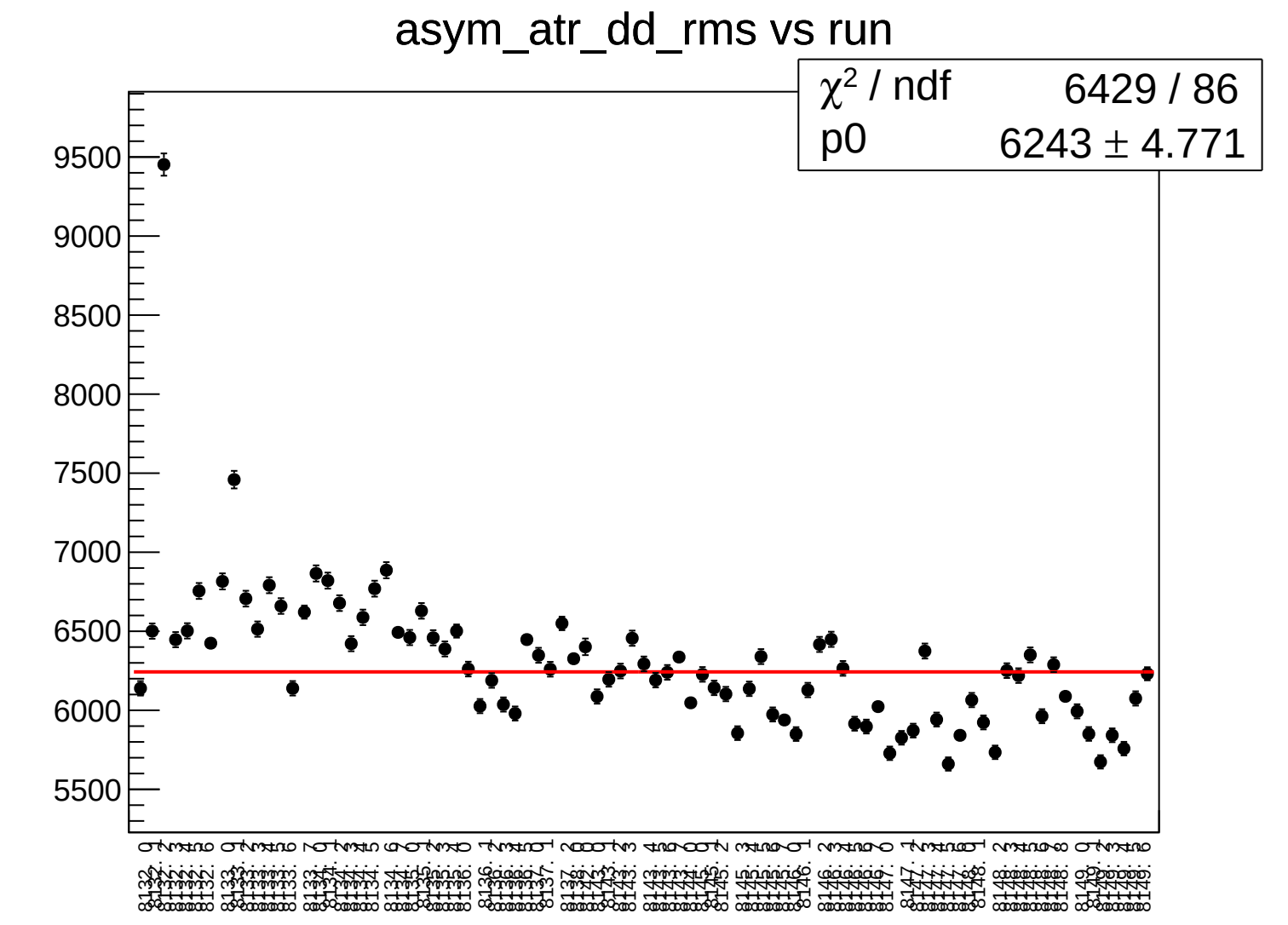

asym_atr_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 91.26 / 86
p0 −3545 ± 6473
pull
Entries 87
Mean −362.5
Std Dev 0

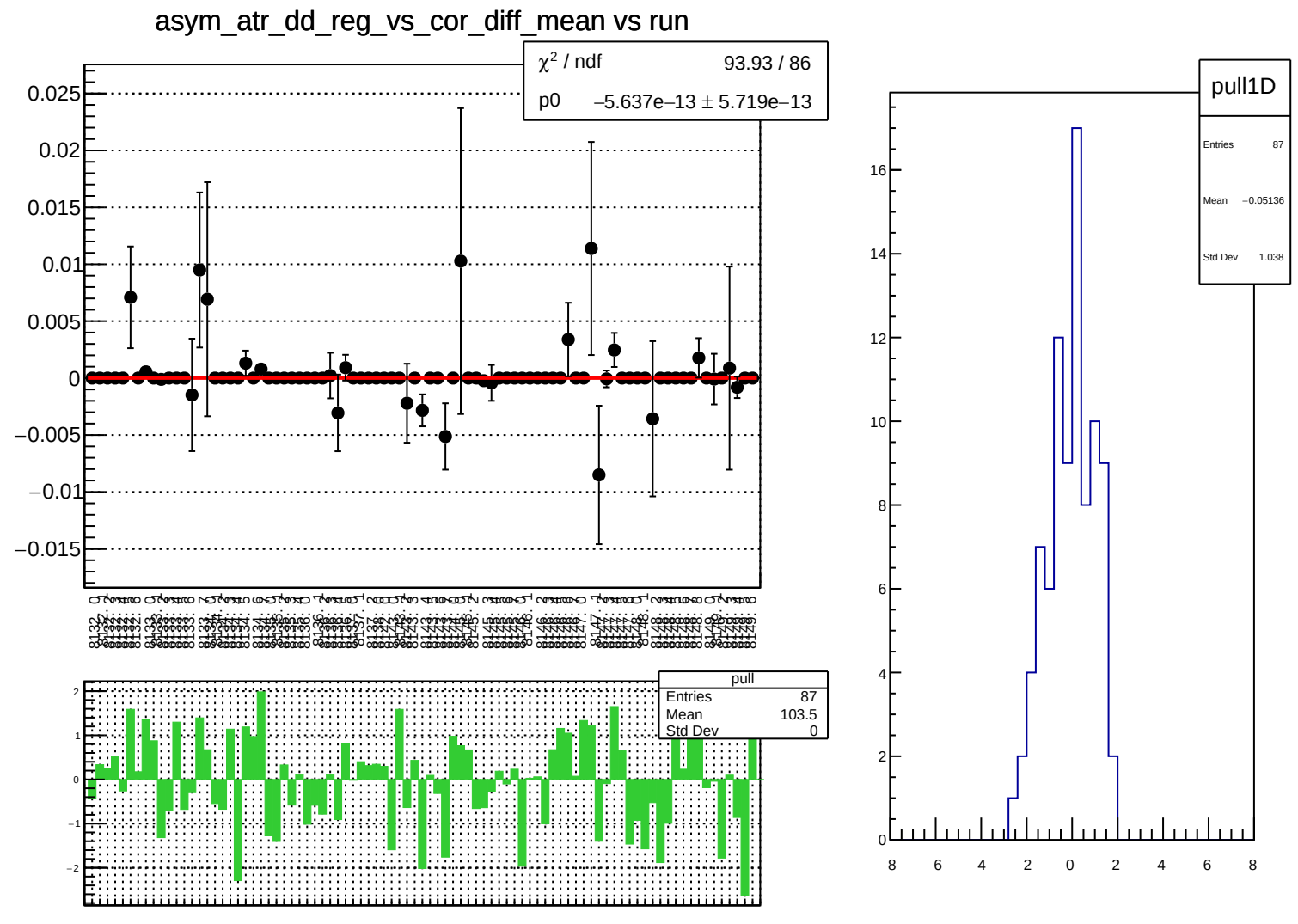

pull1D
Entries 87
Mean −0.006959
Std Dev 1.024

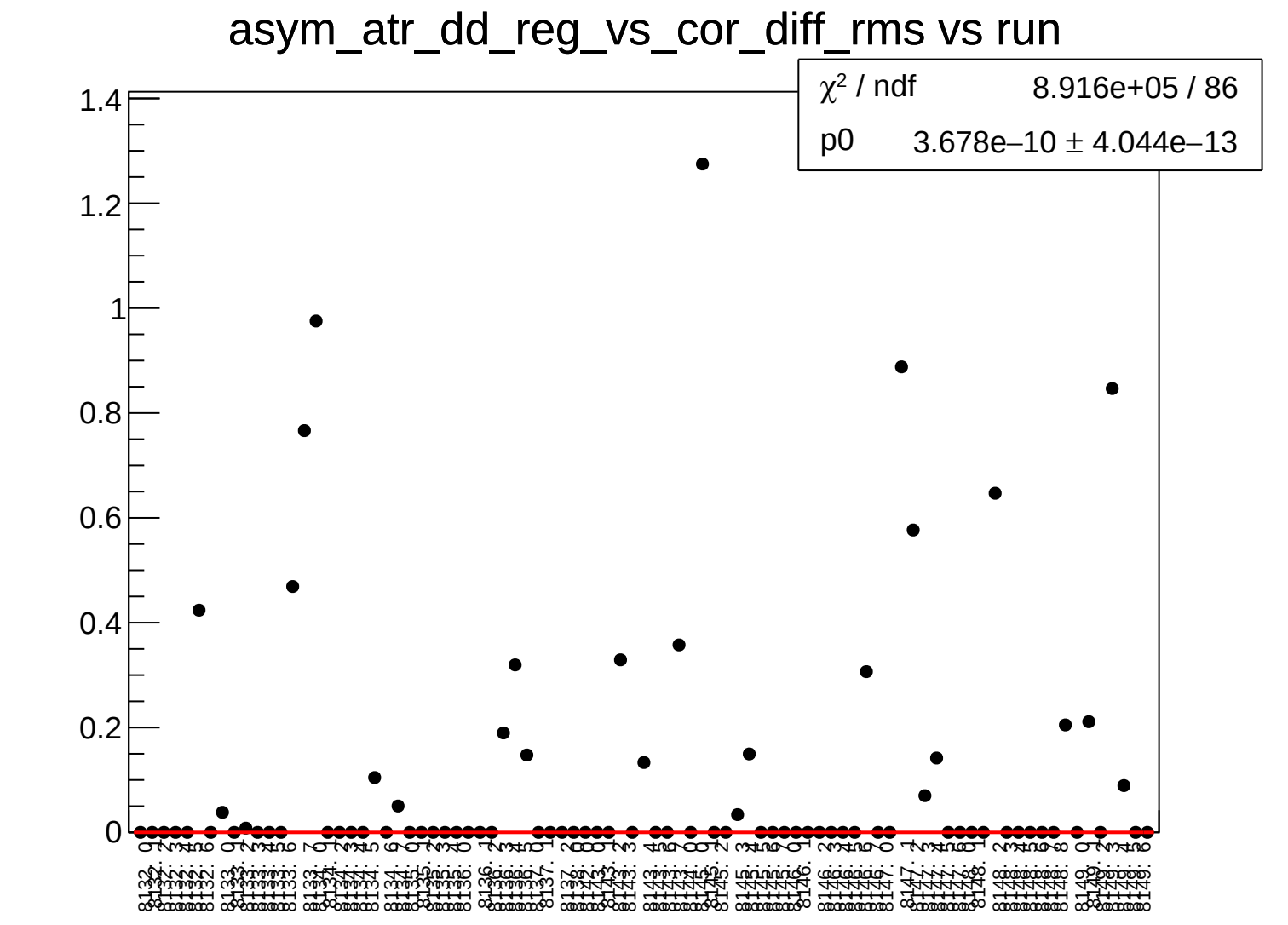

asym_atr_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 9079 / 86
p0 5985 ± 4.577
10000
9000
8000
7000
6000
5000

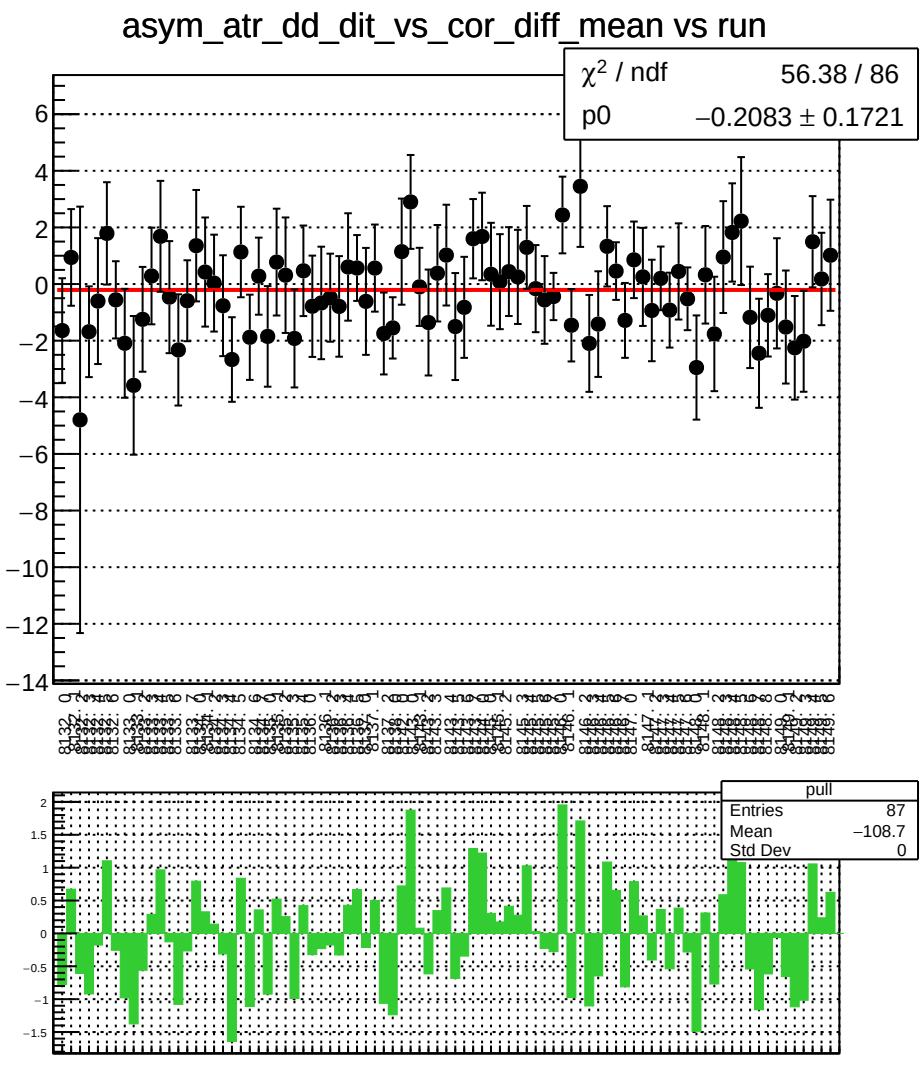

asym_atr_dd_mean vs run
×10^3
χ^2 / ndf 90.48 / 86
p0 3059 ± 6747
200
100
0
−100
−200
pull
Entries 87
Mean −455
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

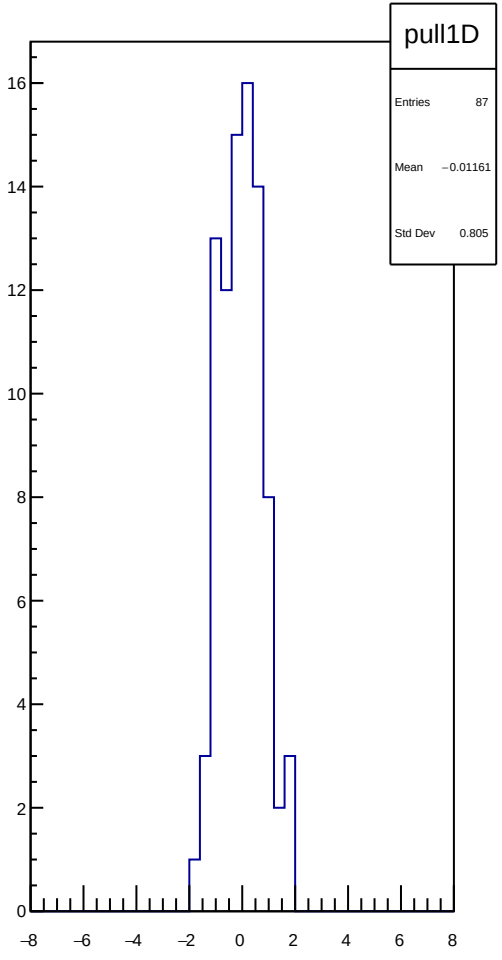

pull1D
Entries 87
Mean 0.003967
Std Dev 1.02
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

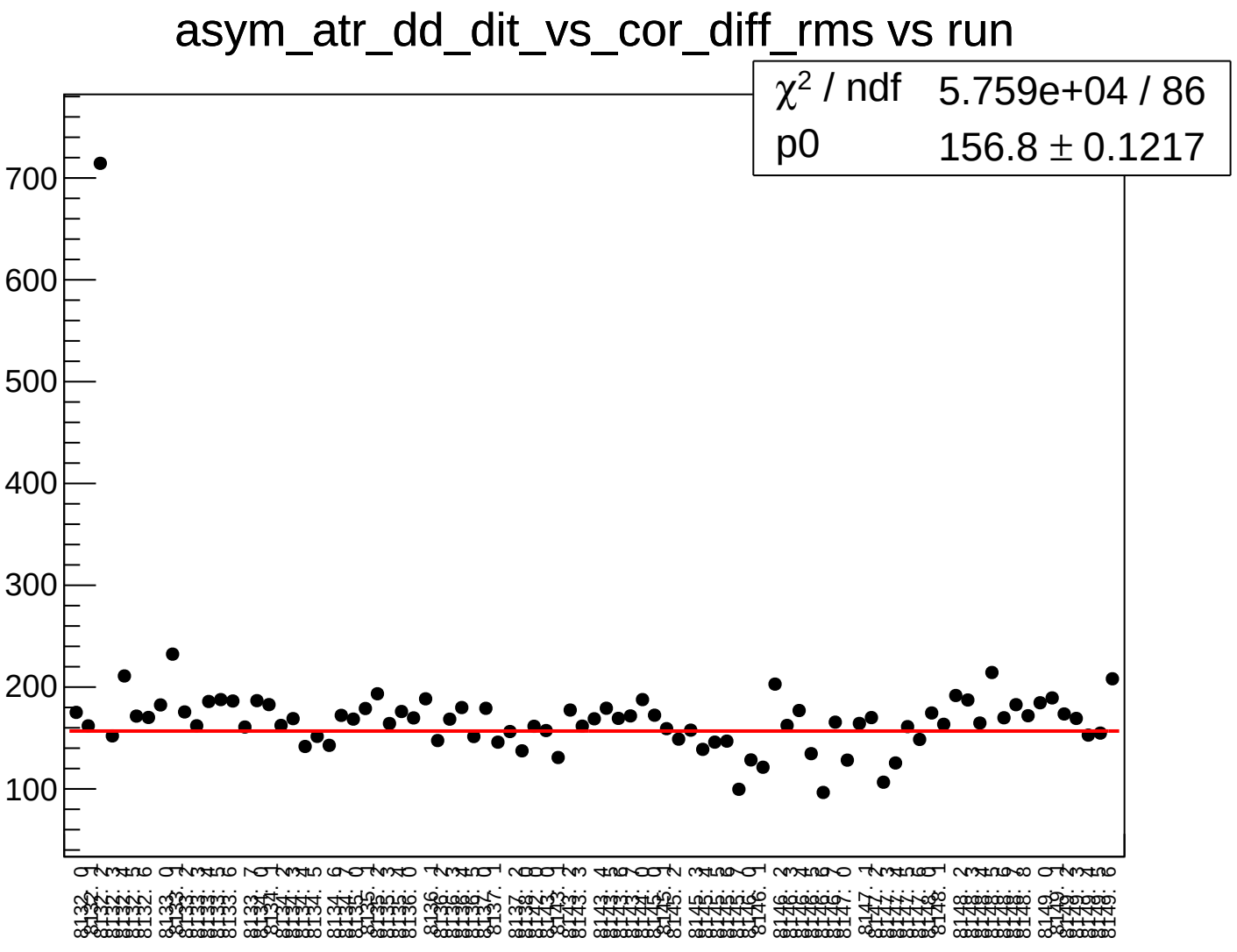

asym_atr_dd_rms vs run
χ^2 / ndf 6429 / 86
p0 6243 ± 4.771
9500
9000
8500
8000
7500
7000
6500
6000
5500

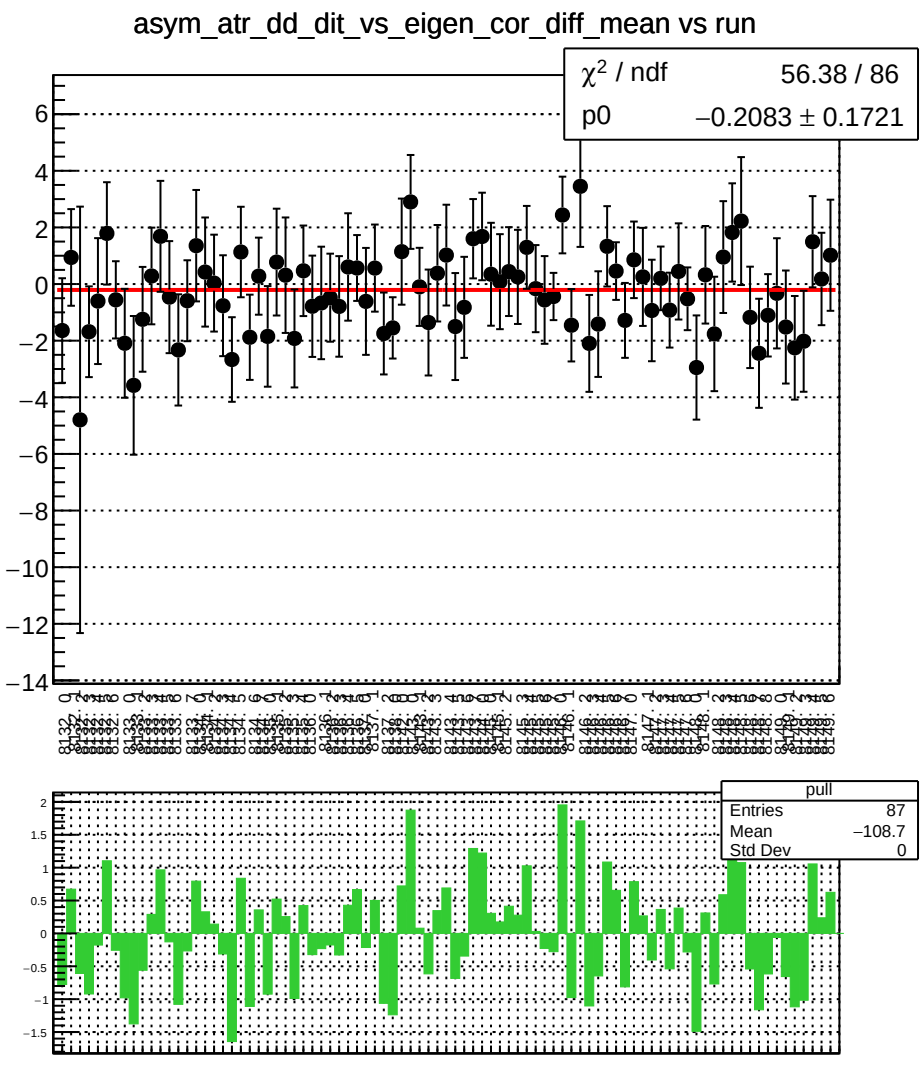

asym_atr_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 93.93 / 86
p0 −5.637e−13 ± 5.719e−13
pull
Entries 87
Mean 103.5
Std Dev 0
pull1D
Entries 87
Mean −0.05136
Std Dev 1.038

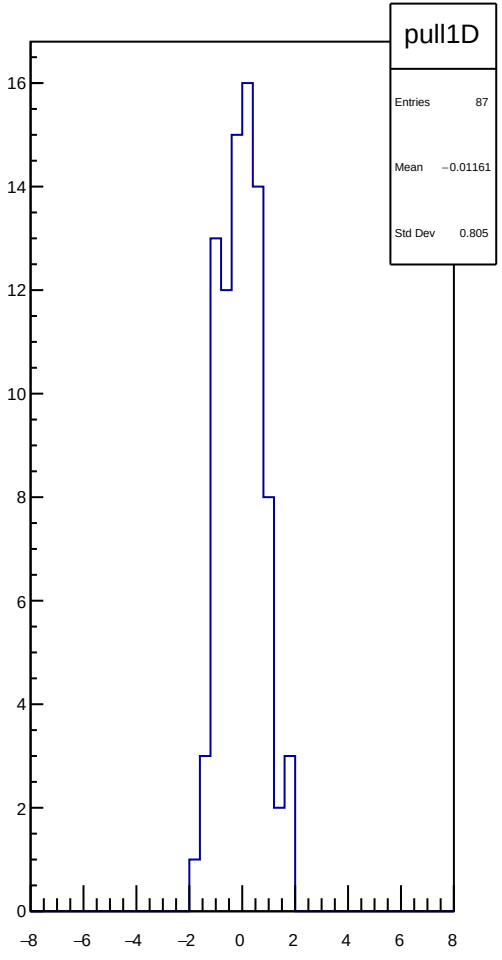

asym_atr_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.916e+05 / 86
p0 3.678e−10 ± 4.044e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

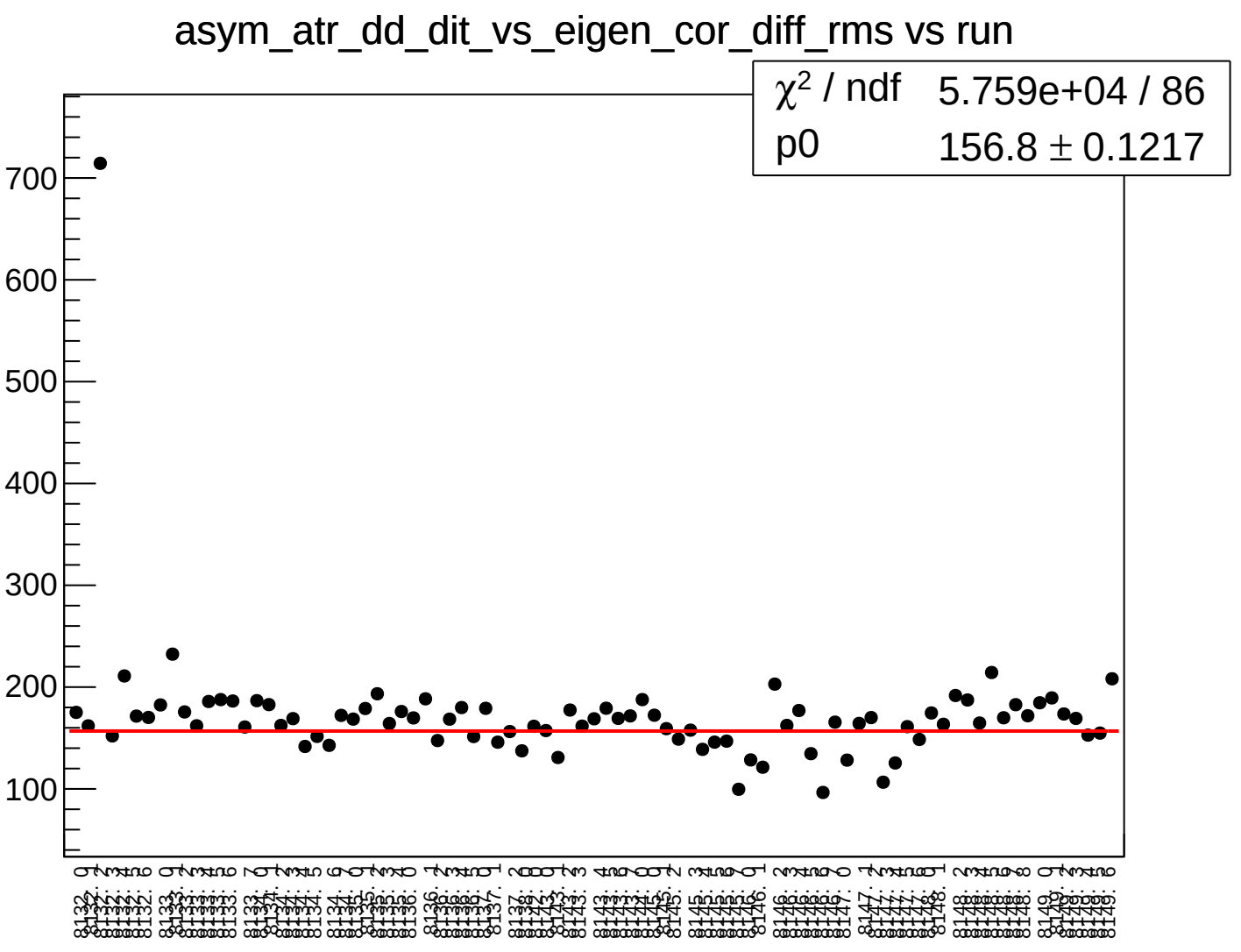

asym_atr_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 56.38 / 86
p0 −0.2083 ± 0.1721
pull
Entries 87
Mean −108.7
Std Dev 0

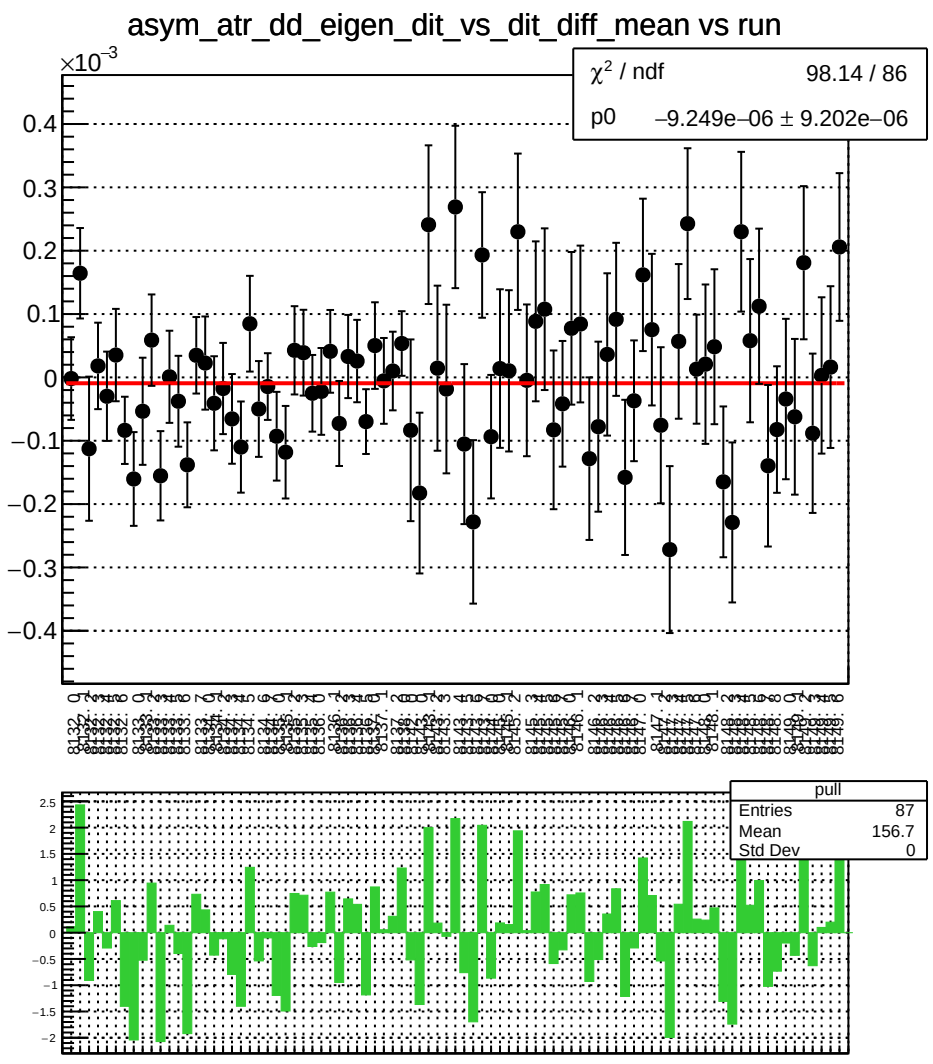

pull1D
Entries 87
Mean −0.01161
Std Dev 0.805

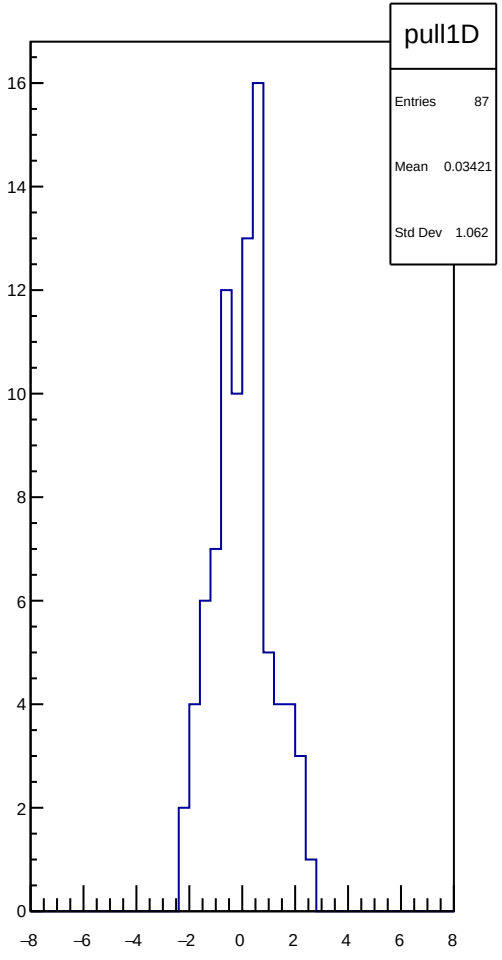

asym_atr_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.759e+04 / 86
p0 156.8 ± 0.1217
700
600
500
400
300
200
100

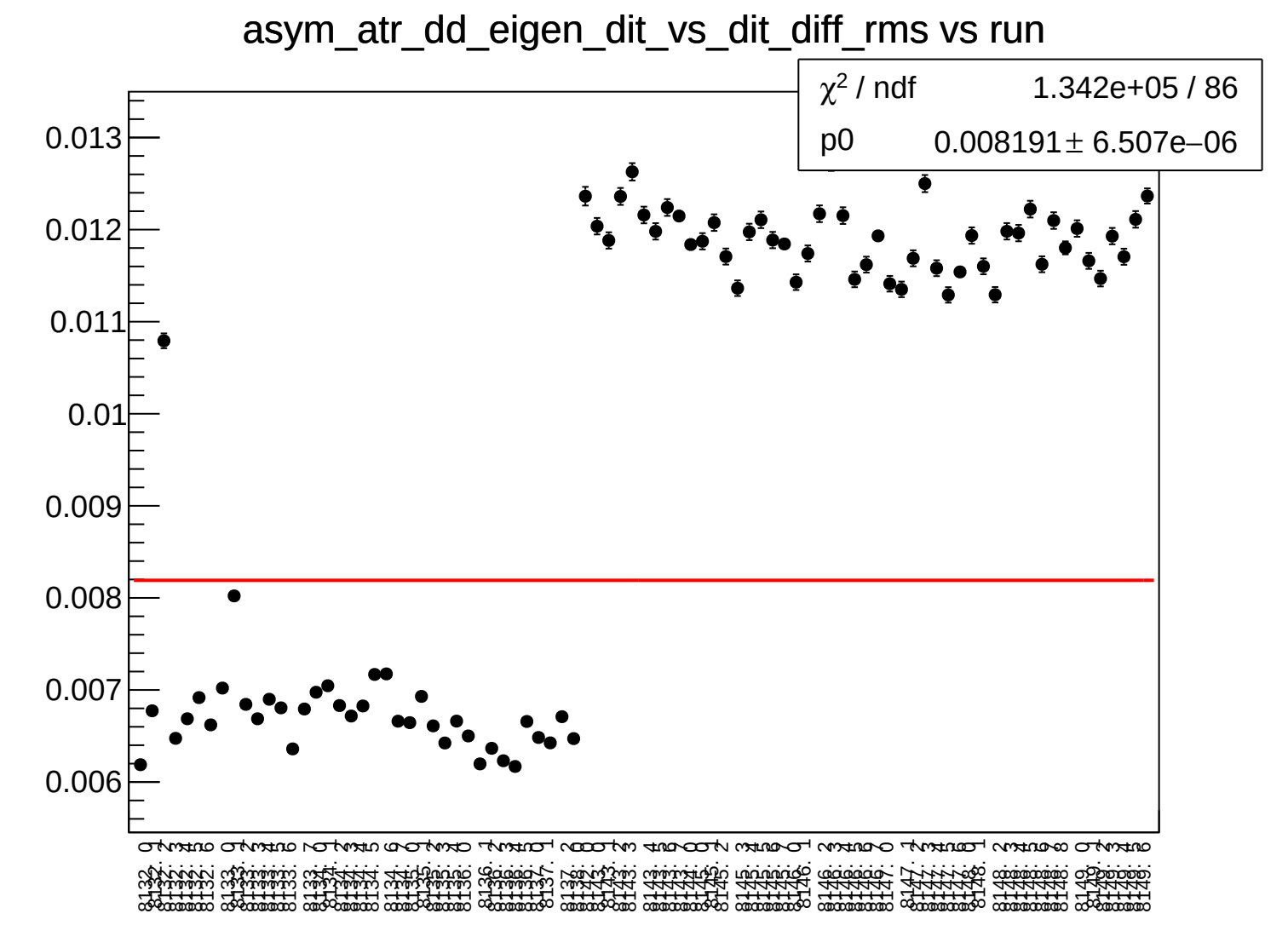

asym_atr_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 56.38 / 86
p0 −0.2083 ± 0.1721
pull
Entries 87
Mean −108.7
Std Dev 0

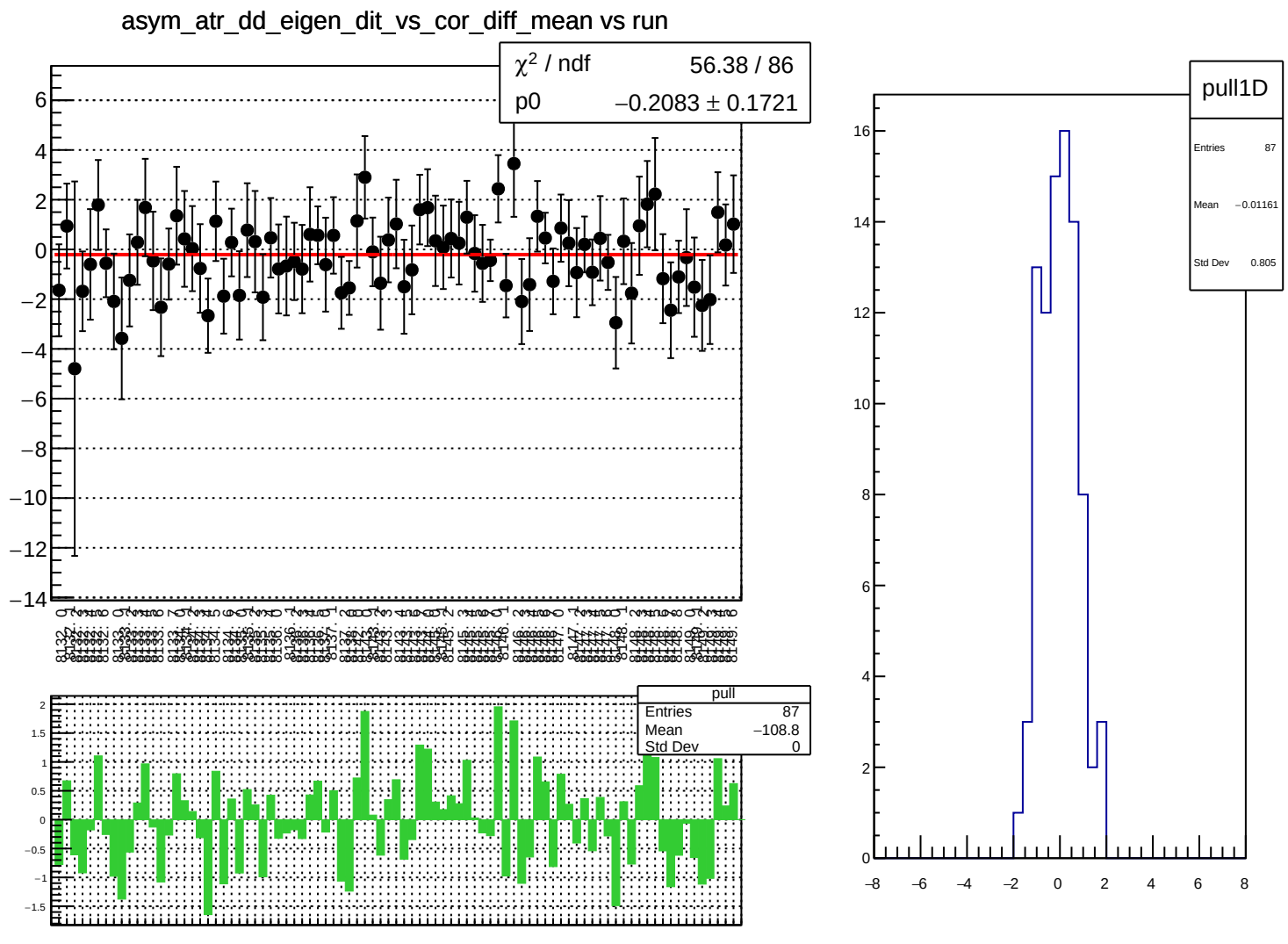

pull1D
Entries 87
Mean −0.01161
Std Dev 0.805

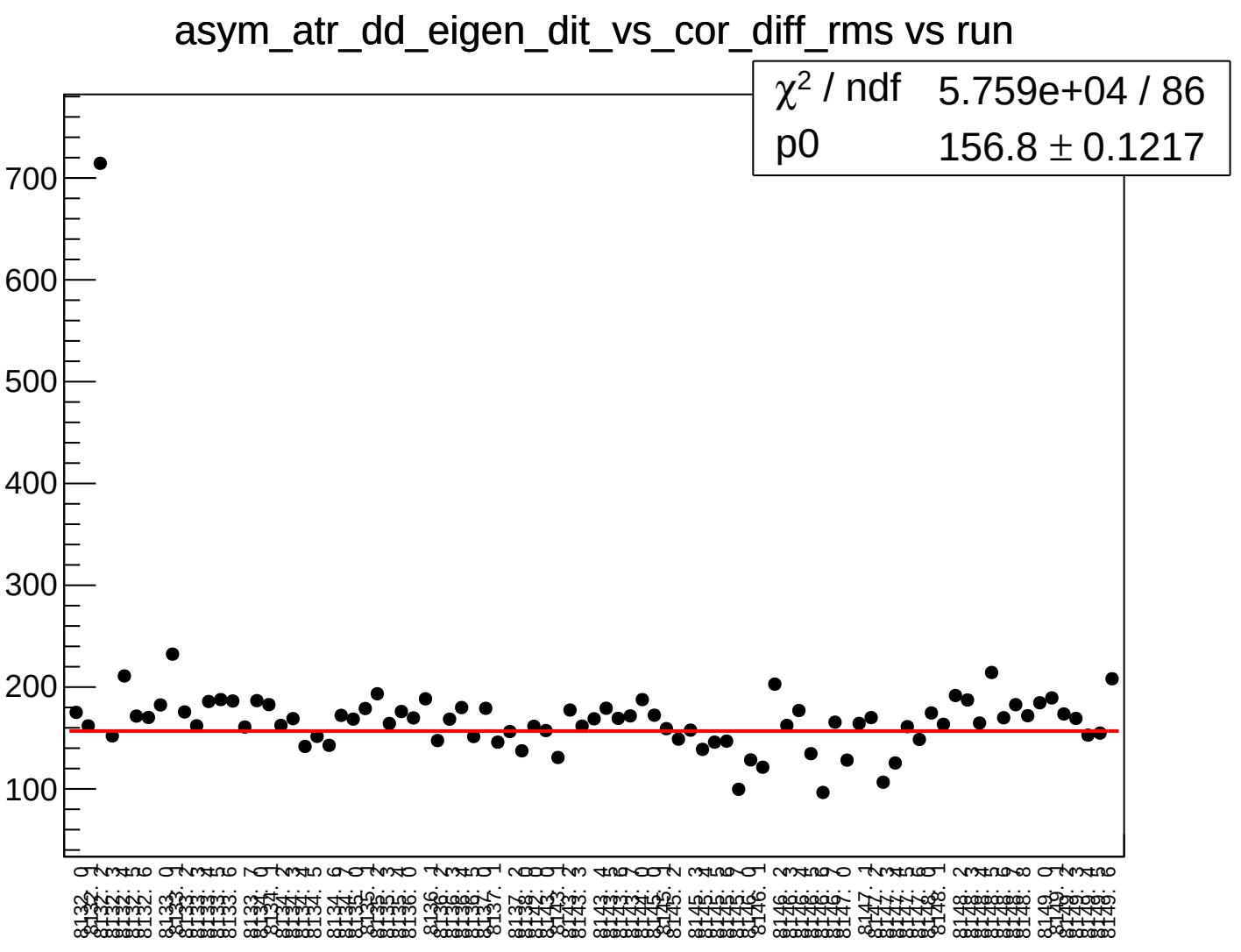

asym_atr_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.759e+04 / 86
p0 156.8 ± 0.1217
700
600
500
400
300
200
100

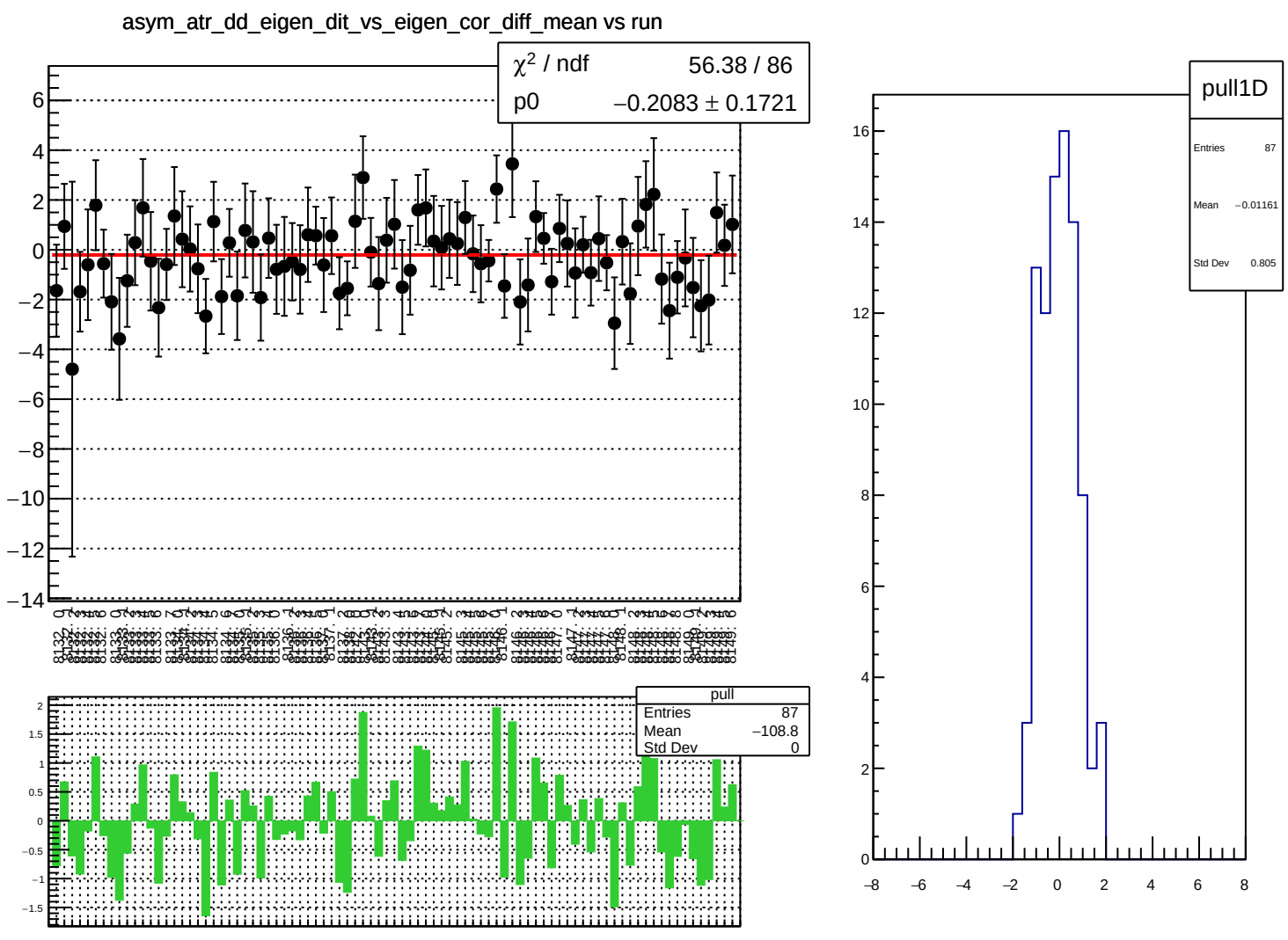

asym_atr_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.14 / 86
p0 −9.249e−06 ± 9.202e−06
pull
Entries 87
Mean 156.7
Std Dev 0

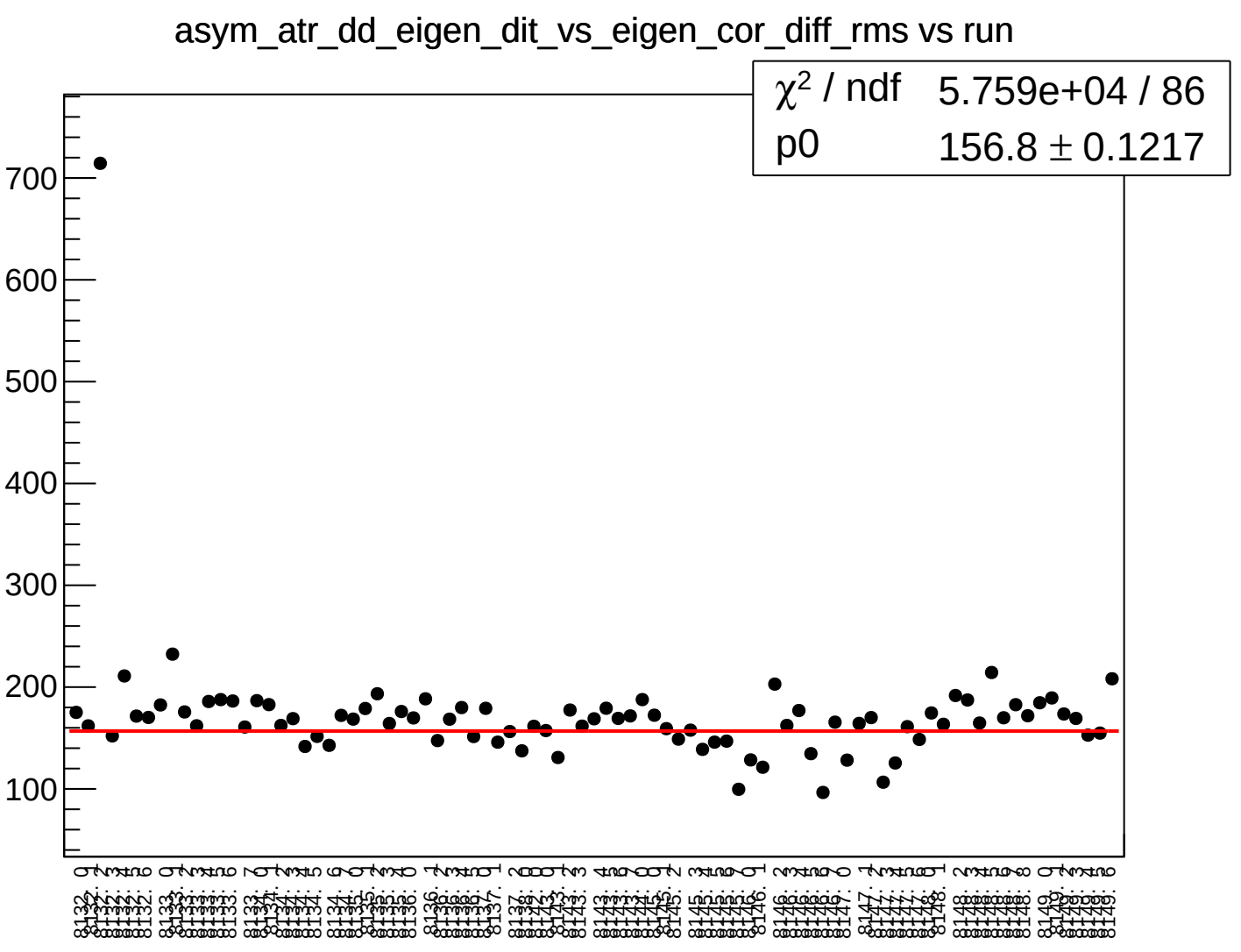

pull1D
Entries 87
Mean 0.03421
Std Dev 1.062

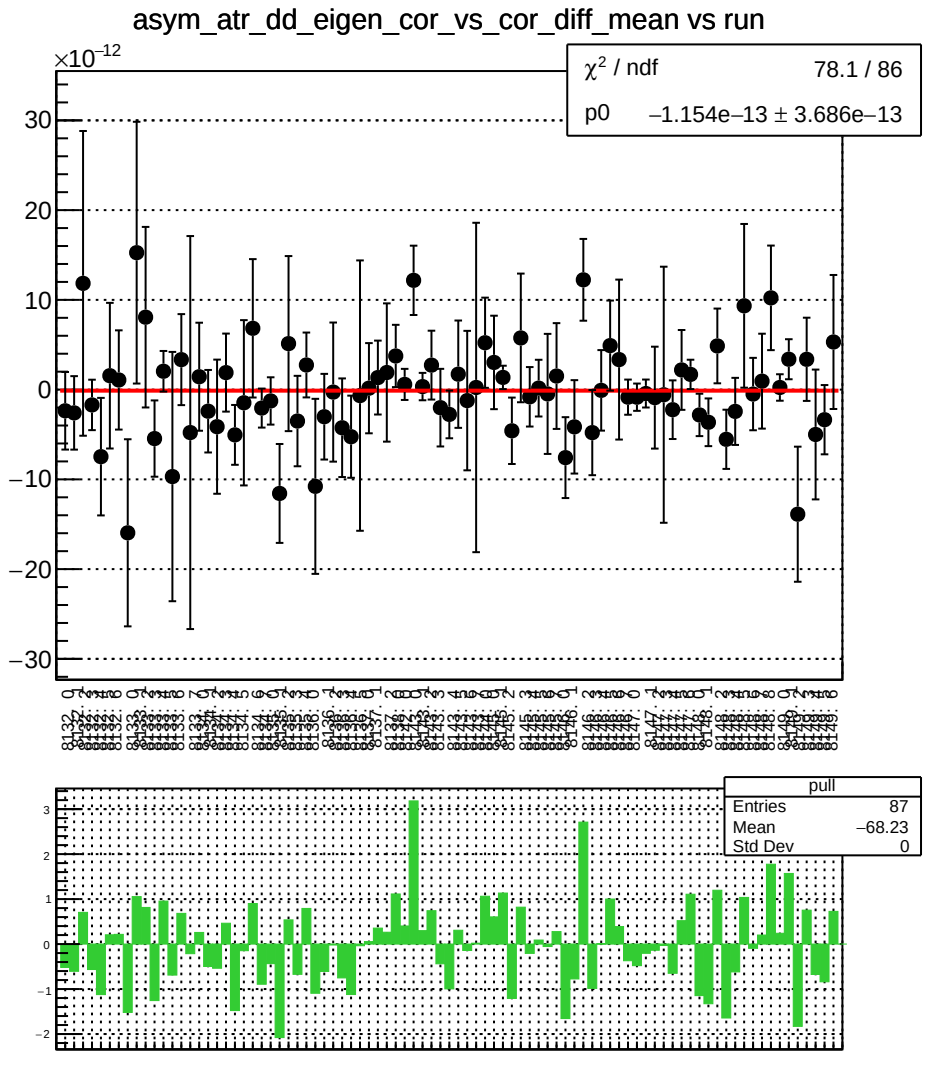

asym_atr_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.342e+05 / 86
p0 0.008191 ± 6.507e−06
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006

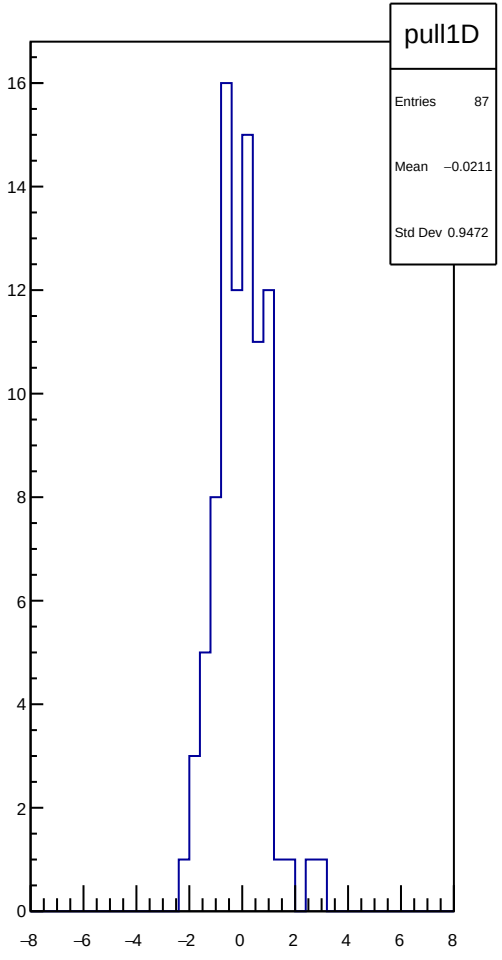

asym_atr_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 56.38 / 86
p0 −0.2083 ± 0.1721
pull
Entries 87
Mean −108.8
Std Dev 0
pull1D
Entries 87
Mean −0.01161
Std Dev 0.805

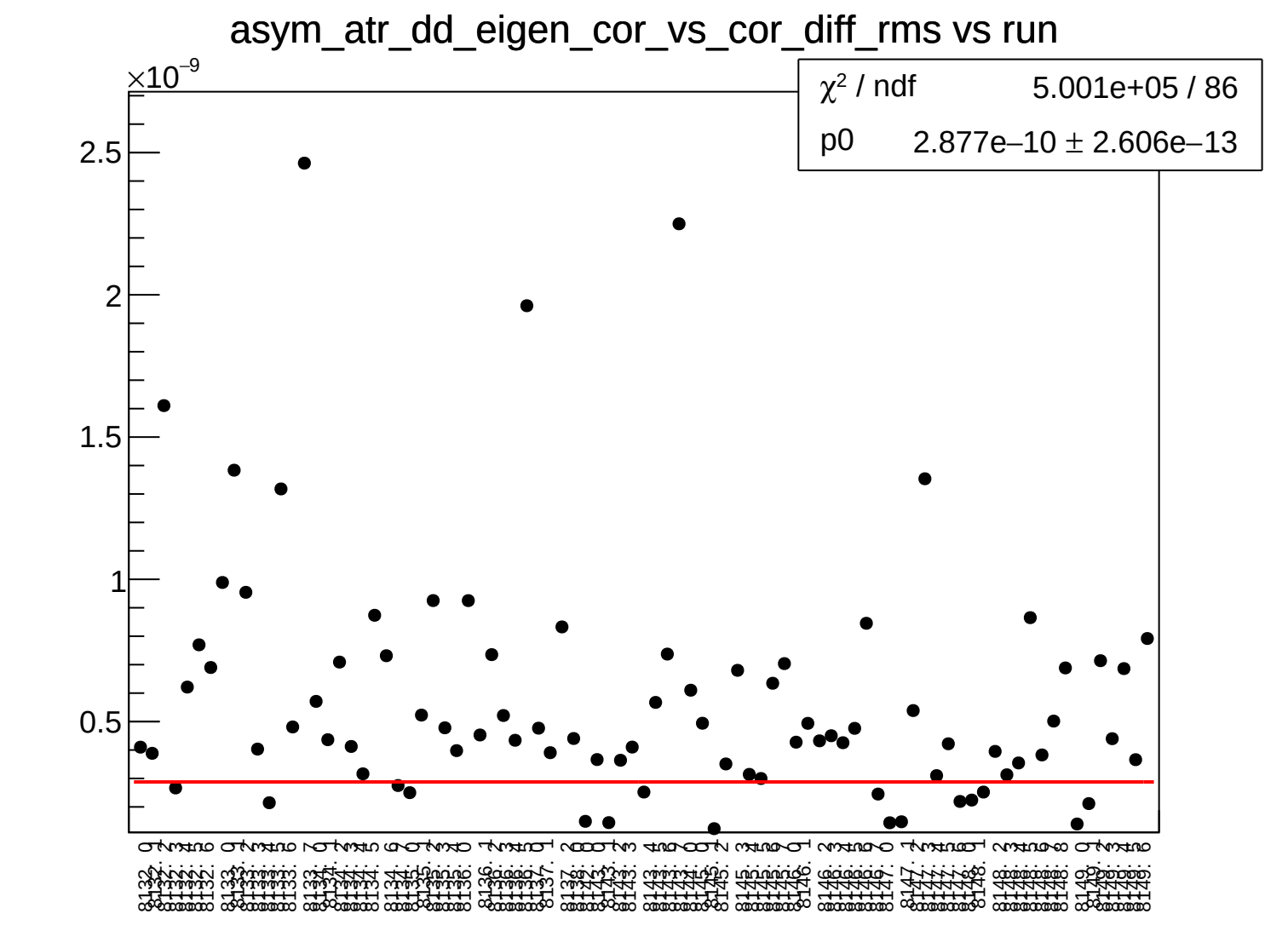

asym_atr_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.759e+04 / 86
p0 156.8 ± 0.1217
700
600
500
400
300
200
100

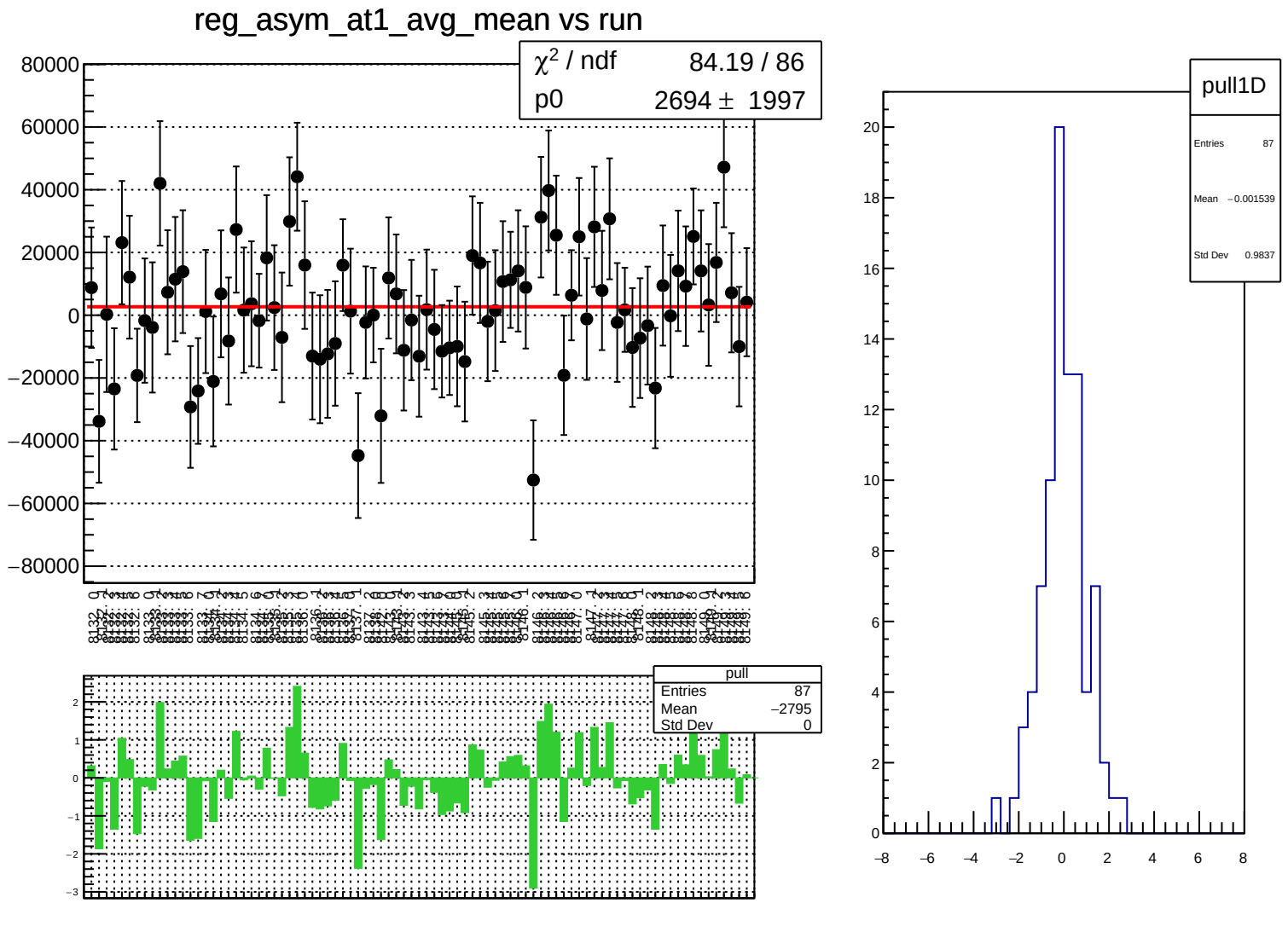

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 56.38 / 86
p0 −0.2083 ± 0.1721
pull
Entries 87
Mean −108.8
Std Dev 0
pull1D
Entries 87
Mean −0.01161
Std Dev 0.805

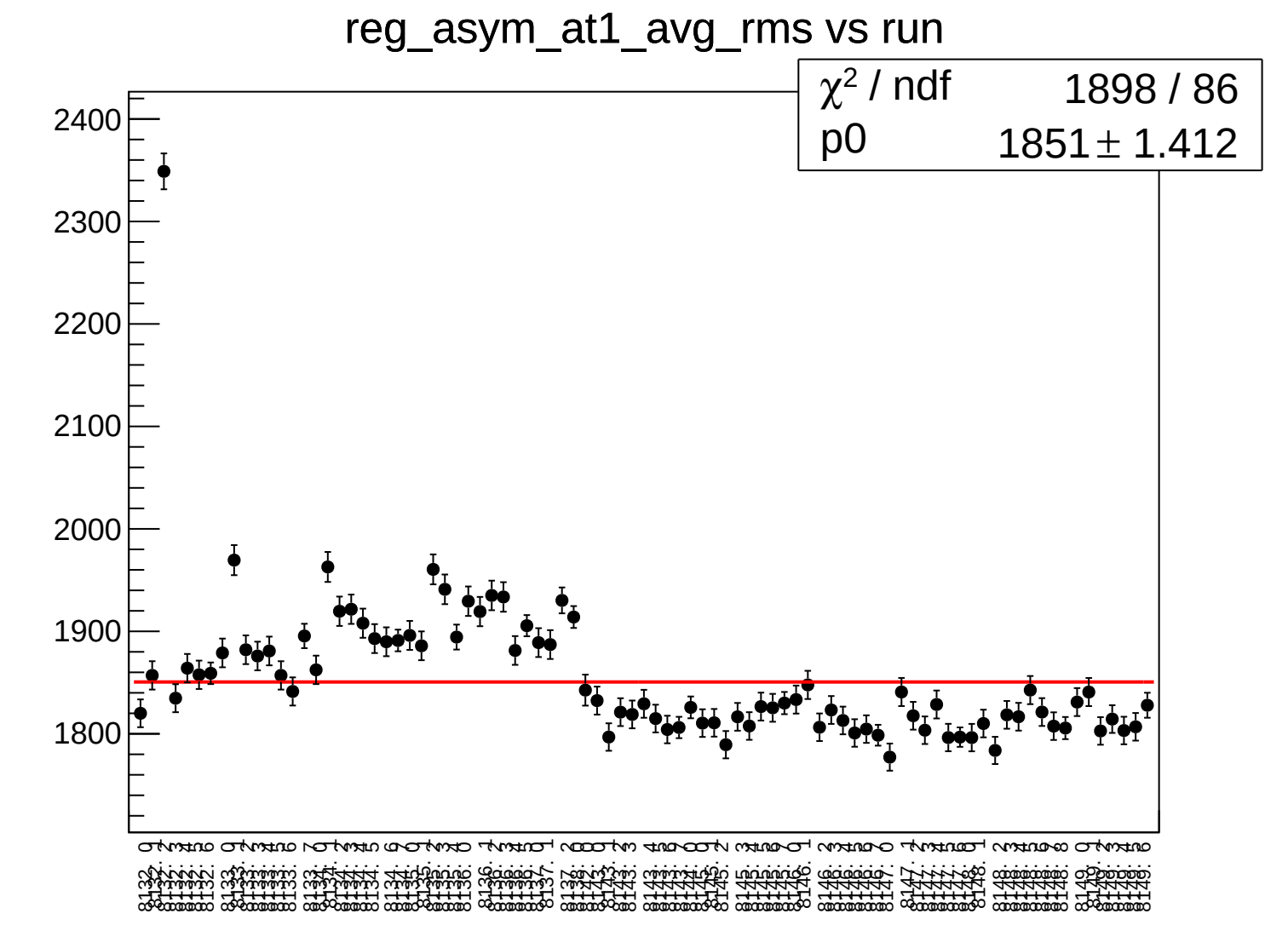

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.759e+04 / 86
p0 156.8 ± 0.1217
700
600
500
400
300
200
100

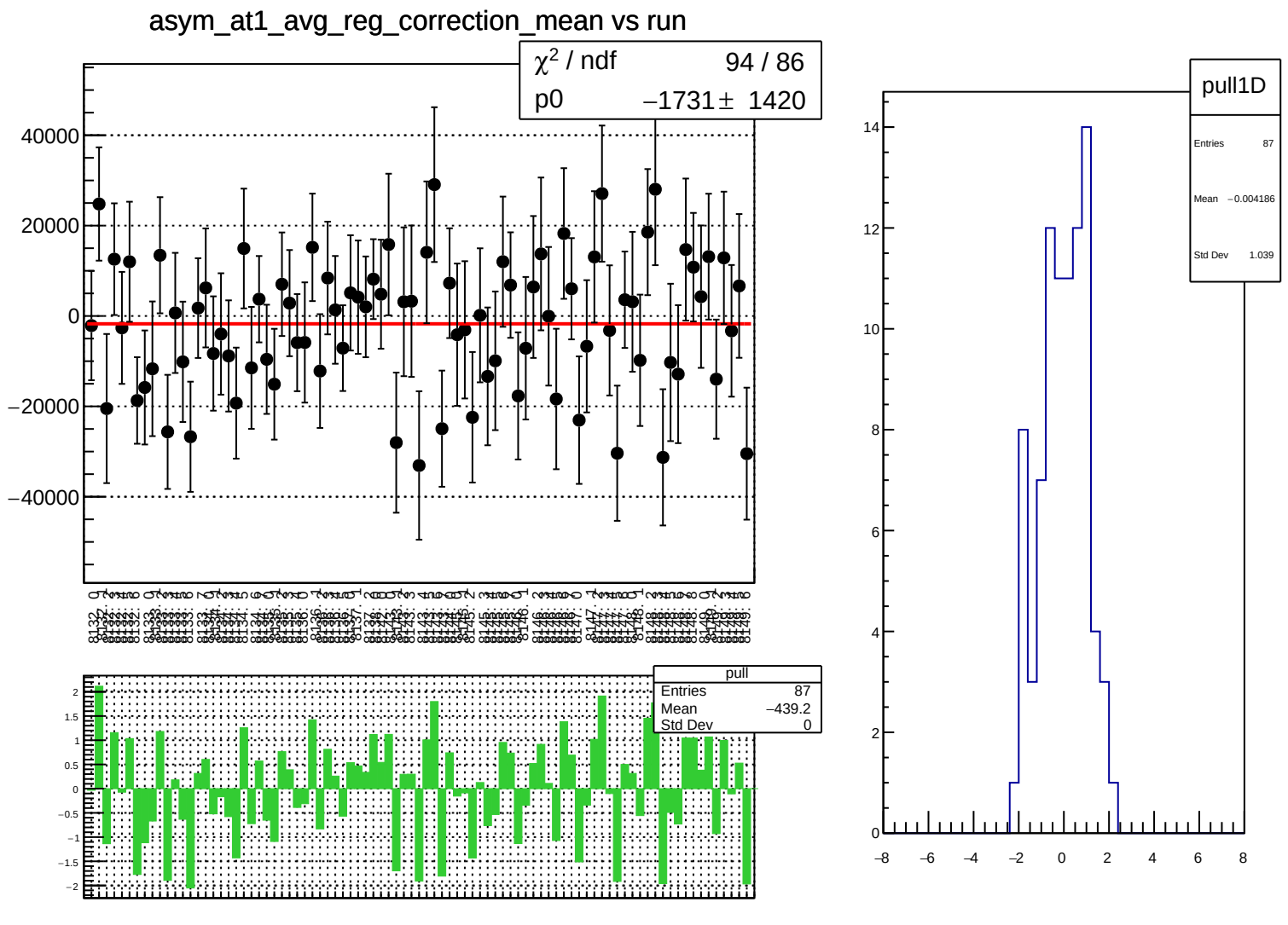

asym_atr_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.1 / 86
p0 −1.154e−13 ± 3.686e−13
pull
Entries 87
Mean −68.23
Std Dev 0

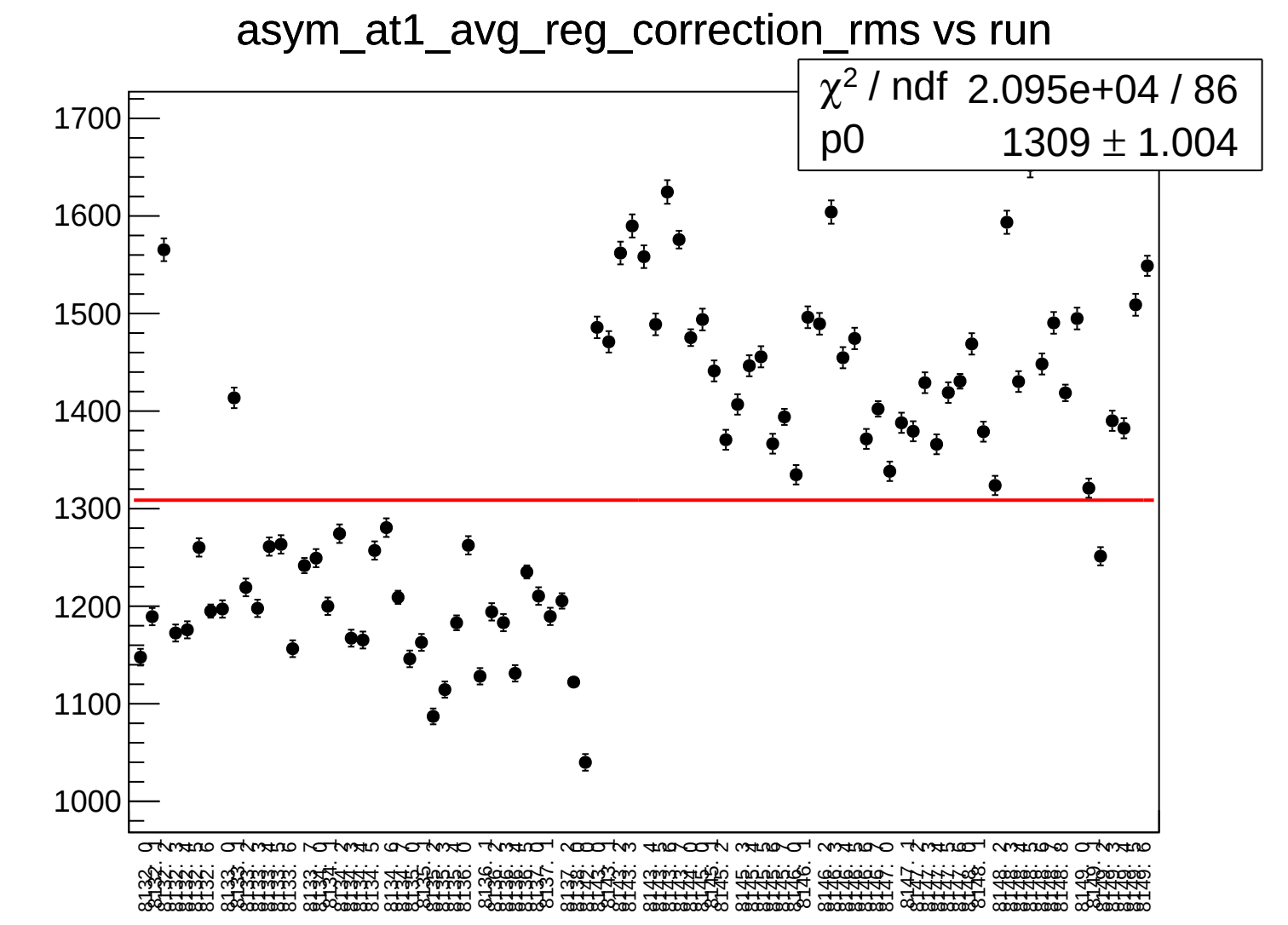

pull1D
Entries 87
Mean −0.0211
Std Dev 0.9472

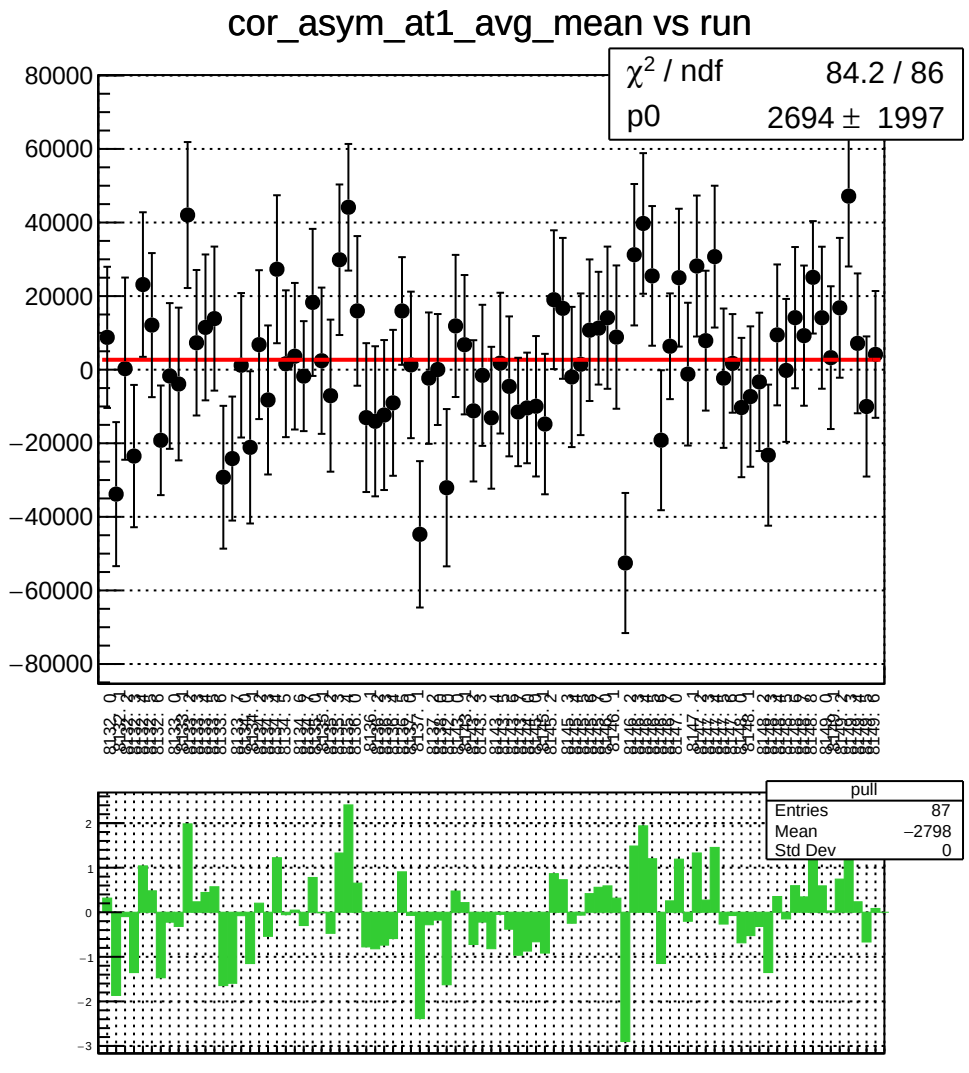

asym_atr_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.001e+05 / 86
p0 2.877e−10 ± 2.606e−13
2.5
2
1.5
1
0.5

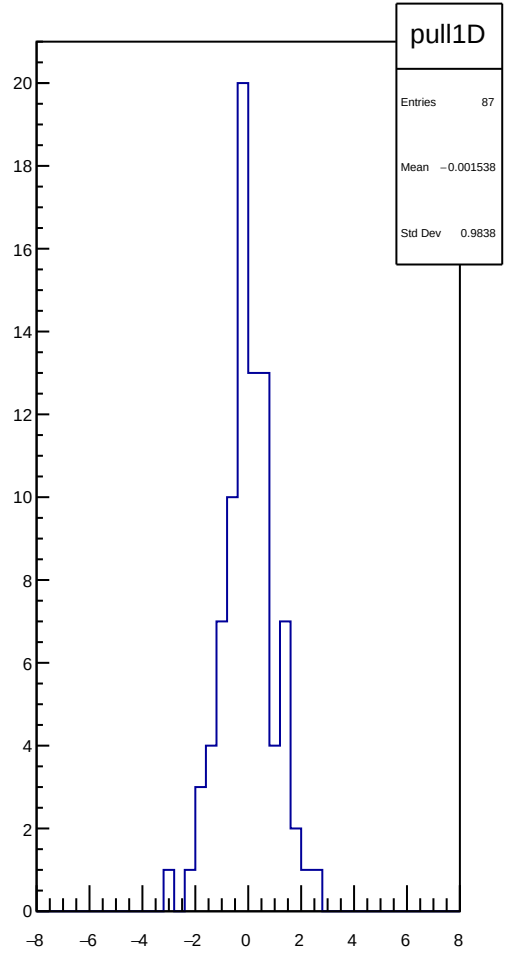

reg_asym_at1_avg_mean vs run
χ² / ndf 84.19 / 86
p0 2694 ± 1997
pull
Entries 87
Mean −2795
Std Dev 0
pull1D
Entries 87
Mean −0.001539
Std Dev 0.9837

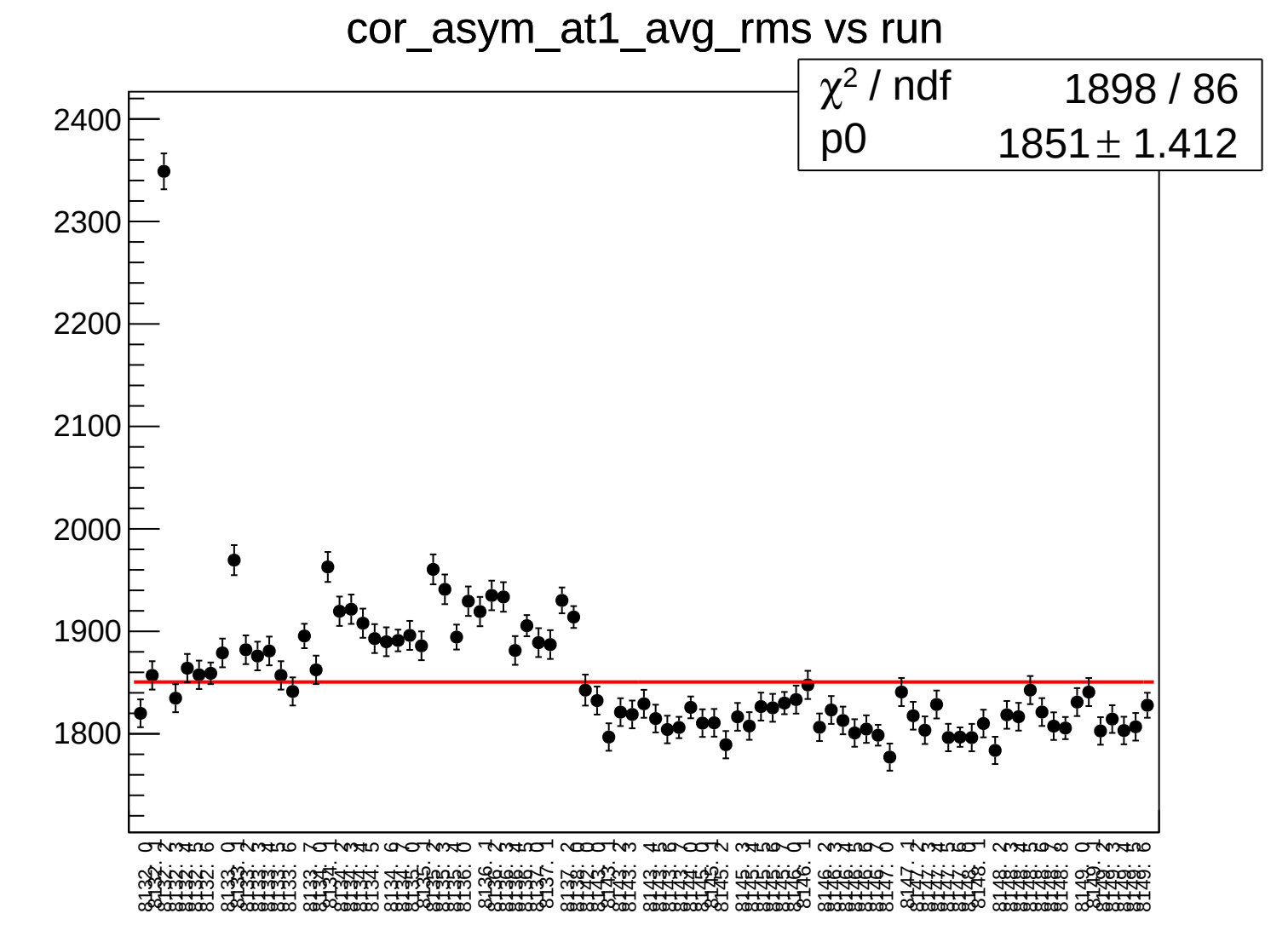

reg_asym_at1_avg_rms vs run
χ² / ndf 1898 / 86
p0 1851 ± 1.412
2400
2300
2200
2100
2000
1900
1800

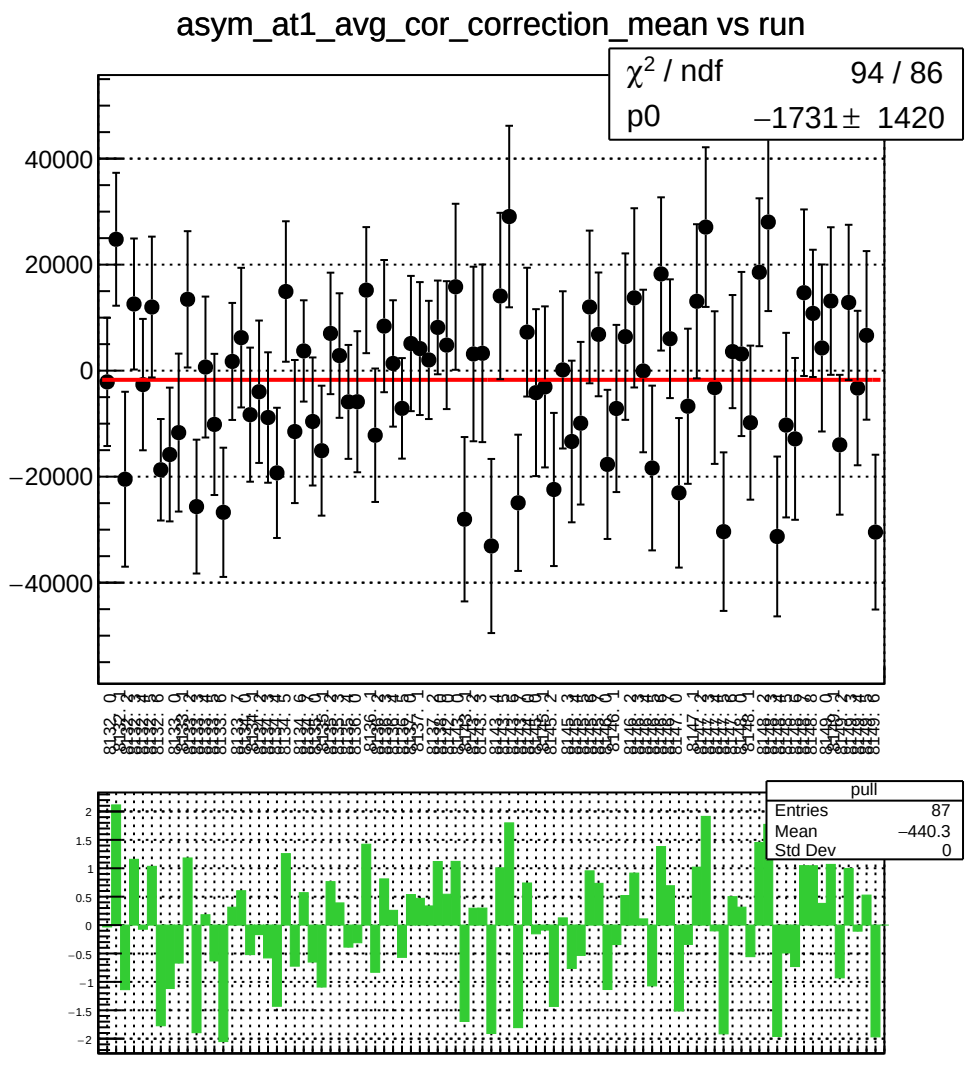

asym_at1_avg_reg_correction_mean vs run
χ² / ndf 94 / 86
p0 −1731 ± 1420
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −439.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 87
Mean −0.004186
Std Dev 1.039
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

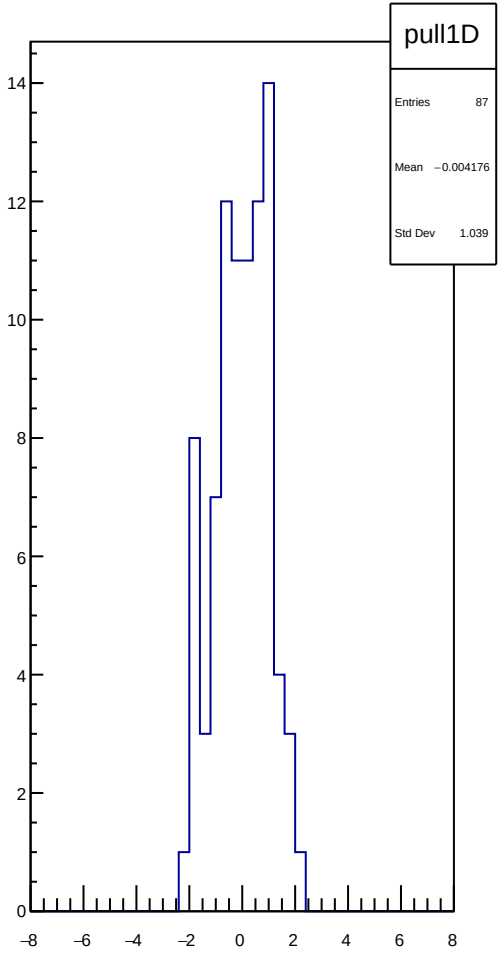

asym_at1_avg_reg_correction_rms vs run
χ² / ndf 2.095e+04 / 86
p0 1309 ± 1.004
1700
1600
1500
1400
1300
1200
1100
1000

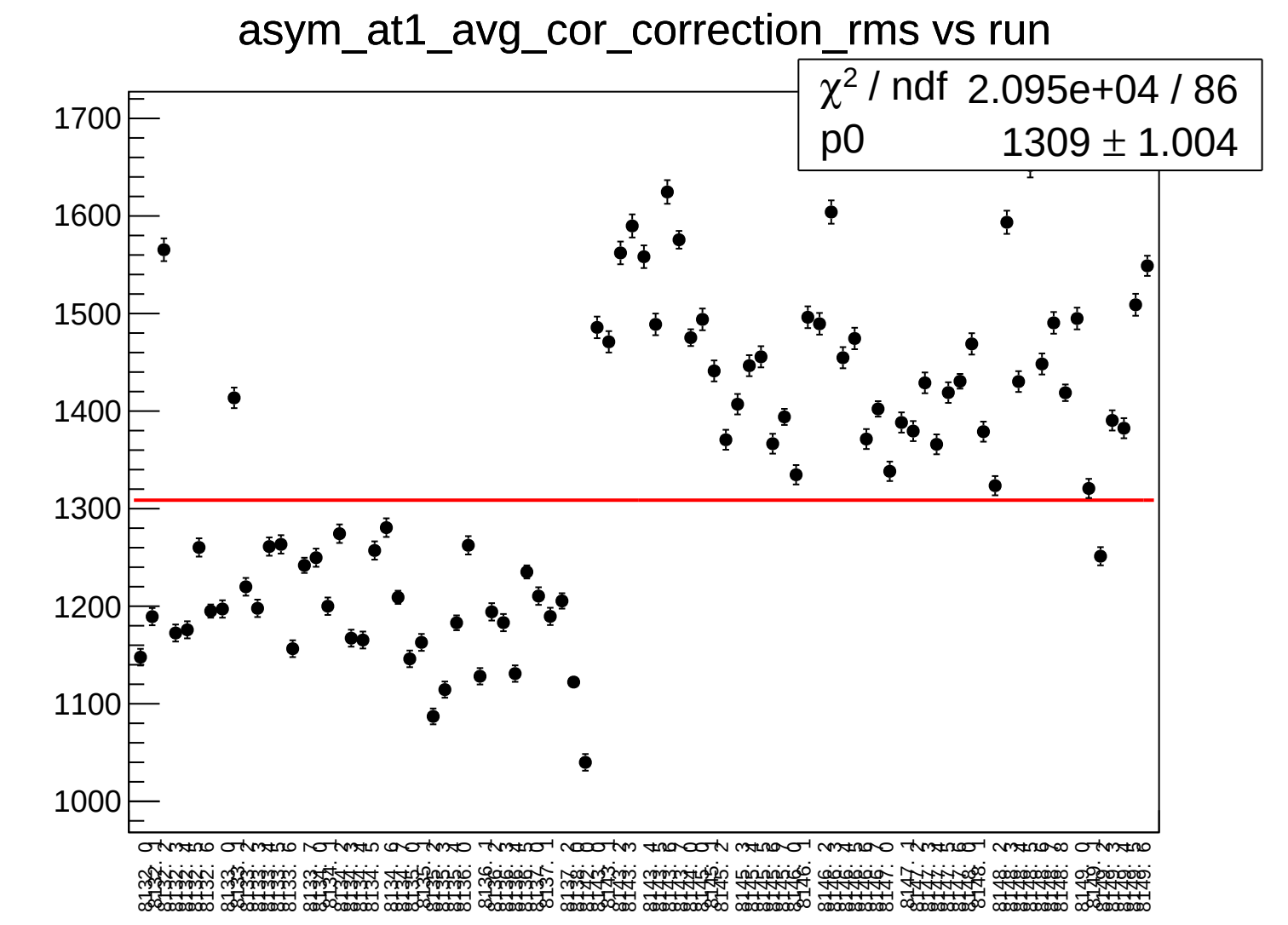

cor_asym_at1_avg_mean vs run
χ² / ndf 84.2 / 86
p0 2694 ± 1997
pull
Entries 87
Mean −2798
Std Dev 0

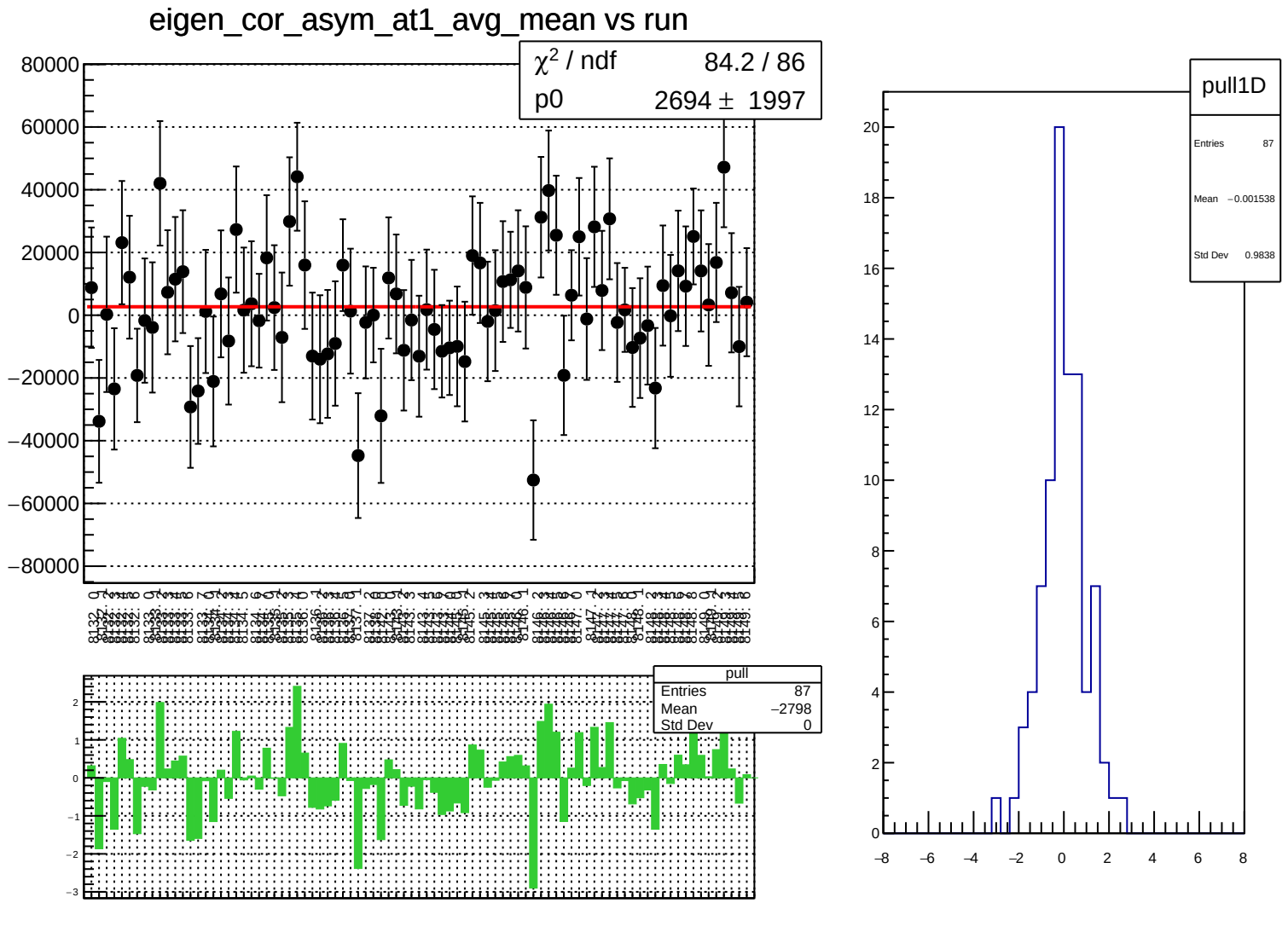

pull1D
Entries 87
Mean −0.001538
Std Dev 0.9838

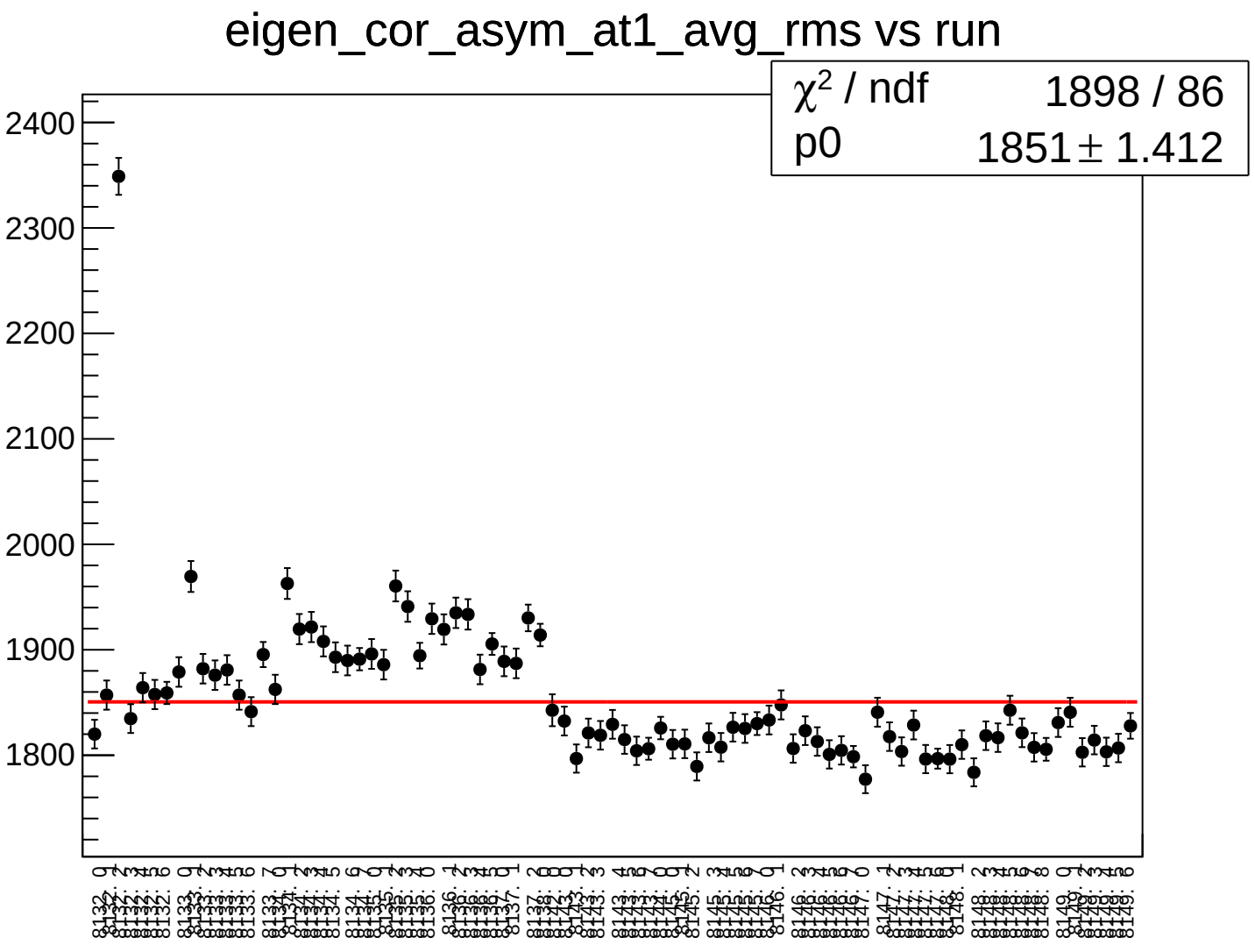

cor_asym_at1_avg_rms vs run
χ² / ndf 1898 / 86
p0 1851 ± 1.412
2400
2300
2200
2100
2000
1900
1800

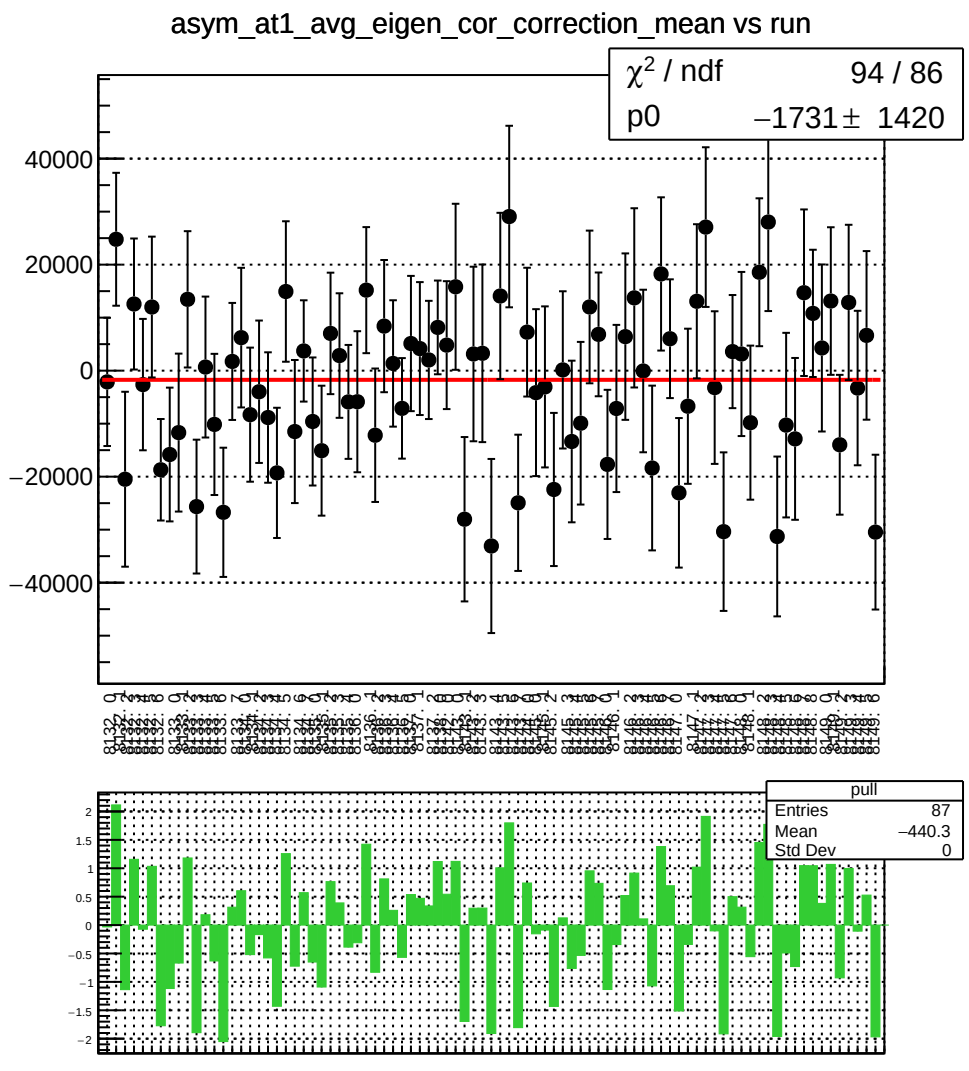

asym_at1_avg_cor_correction_mean vs run
χ² / ndf 94 / 86
p0 −1731 ± 1420
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −440.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

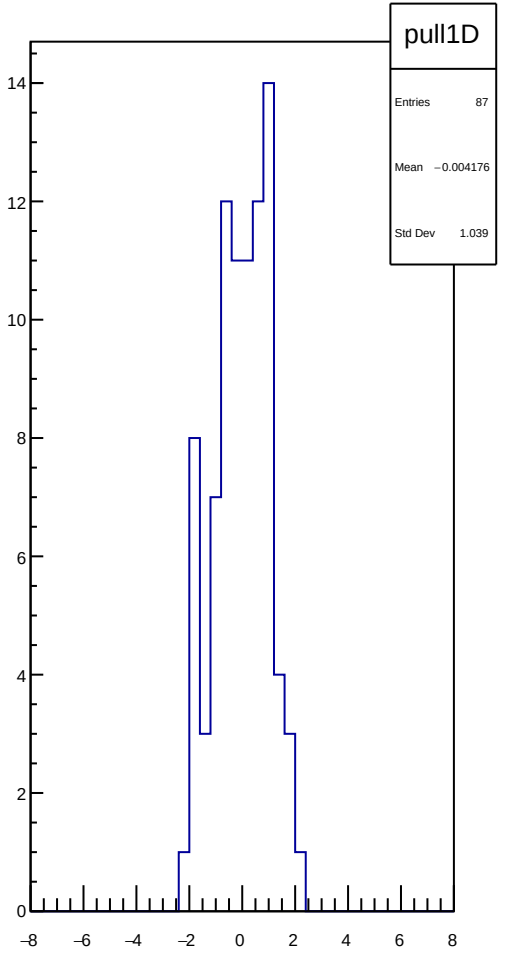

pull1D
Entries 87
Mean −0.004176
Std Dev 1.039
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

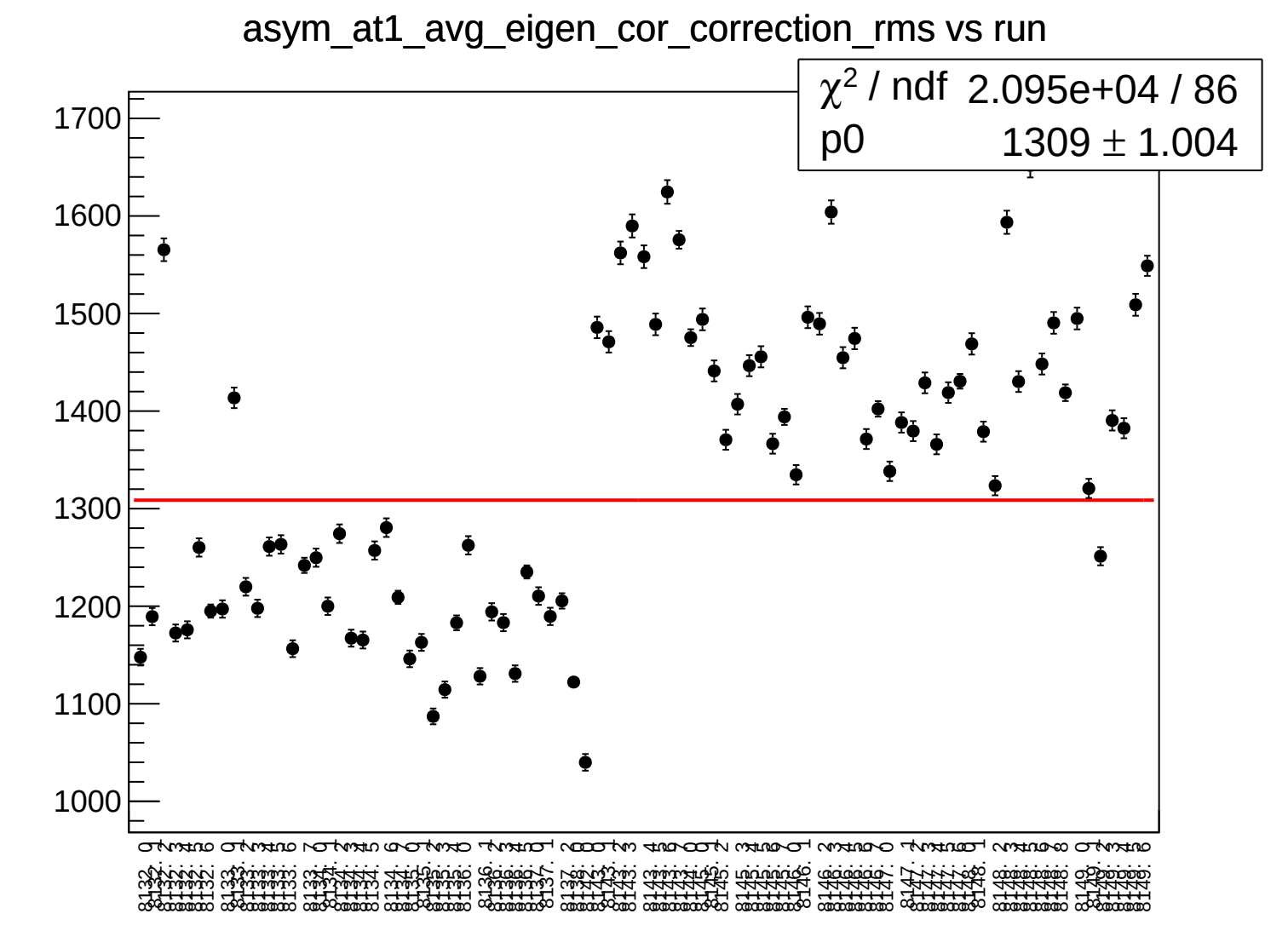

asym_at1_avg_cor_correction_rms vs run
χ² / ndf 2.095e+04 / 86
p0 1309 ± 1.004
1700
1600
1500
1400
1300
1200
1100
1000

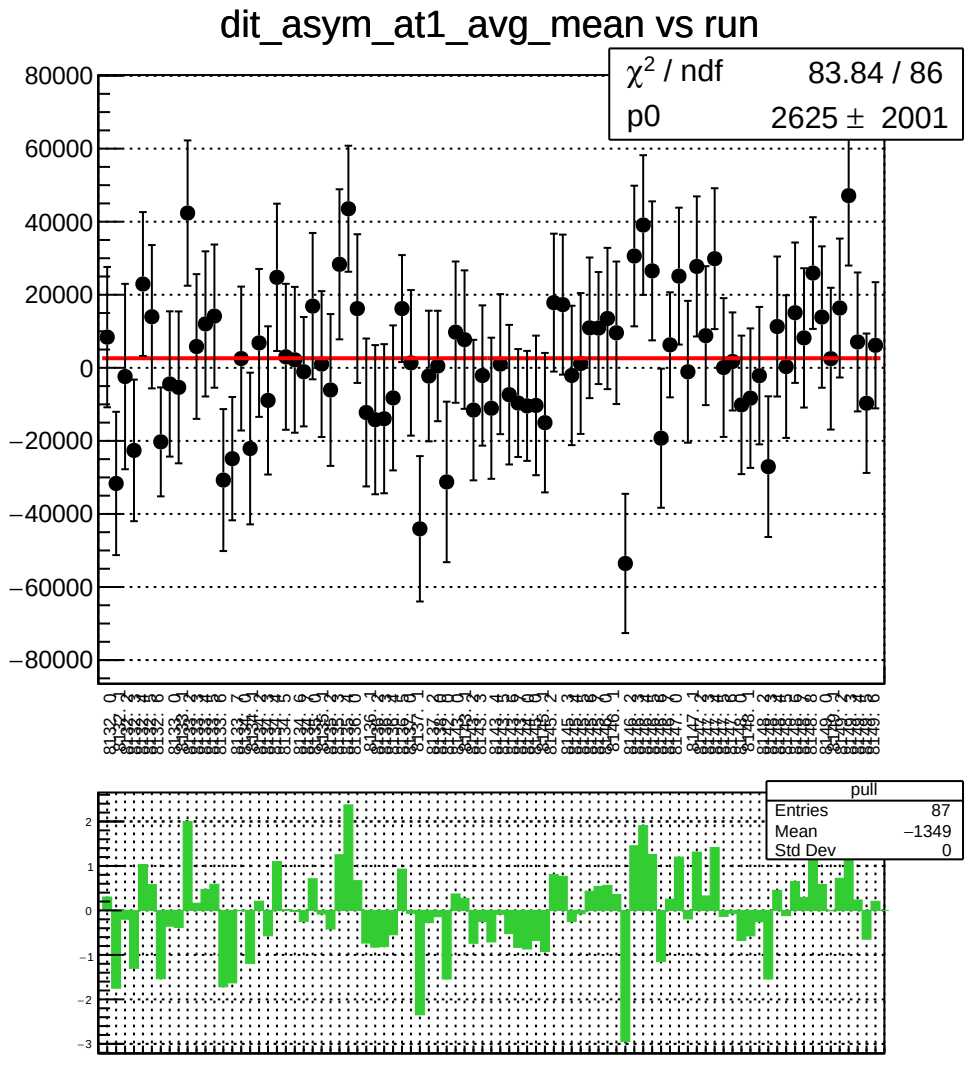

eigen_cor_asym_at1_avg_mean vs run
χ² / ndf 84.2 / 86
p0 2694 ± 1997
pull
Entries 87
Mean −2798
Std Dev 0
pull1D
Entries 87
Mean −0.001538
Std Dev 0.9838

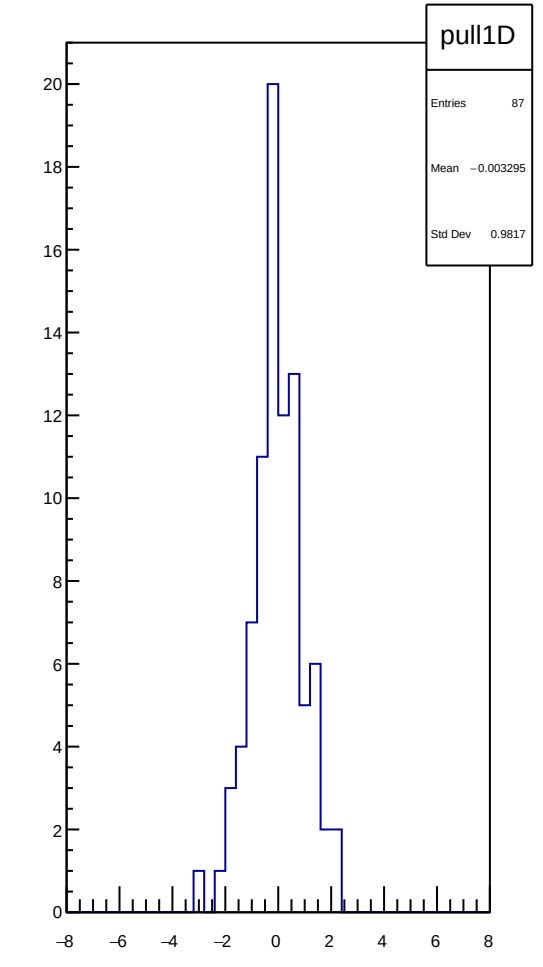

eigen_cor_asym_at1_avg_rms vs run
χ² / ndf 1898 / 86
p0 1851 ± 1.412
2400
2300
2200
2100
2000
1900
1800

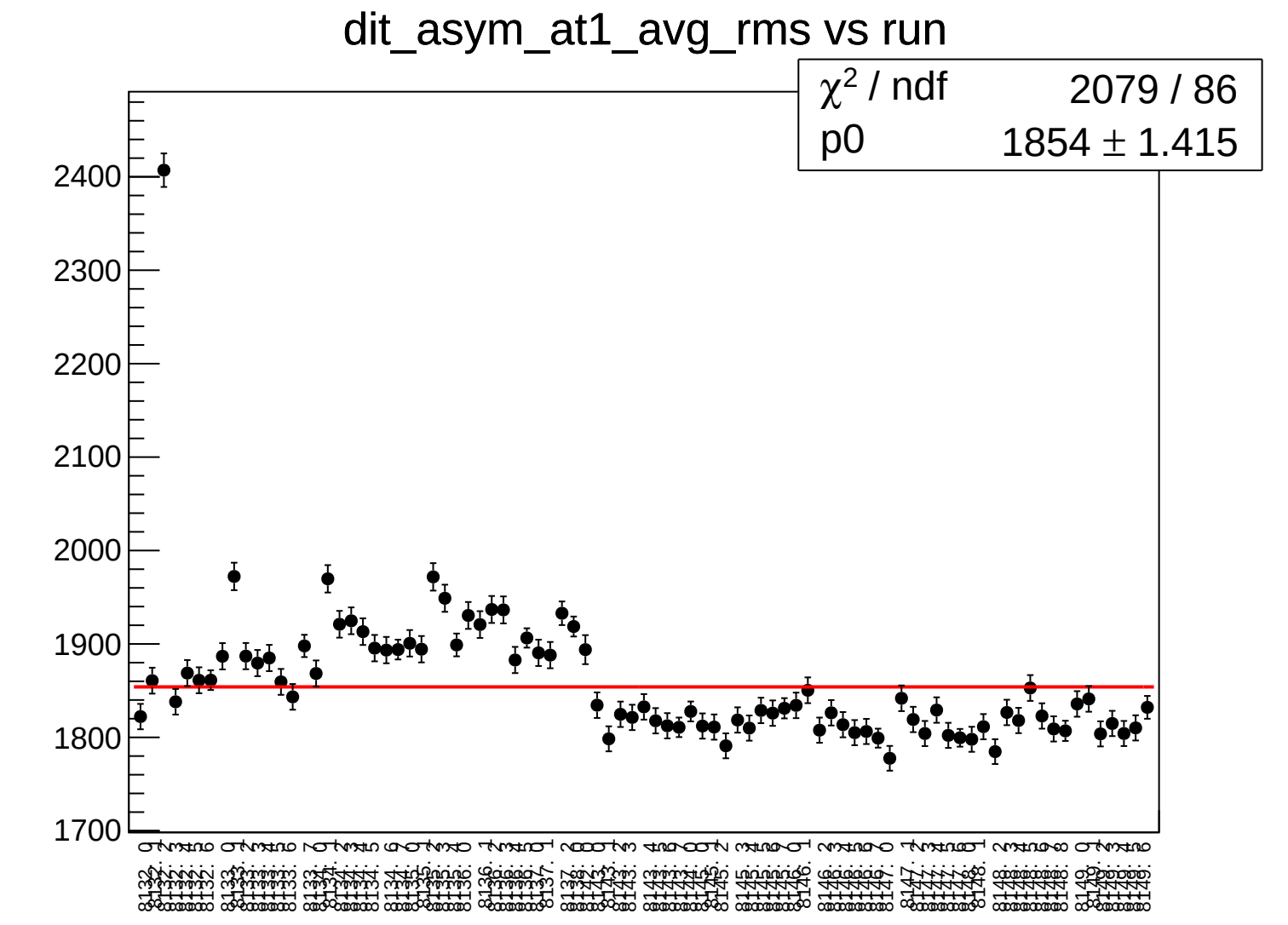

asym_at1_avg_eigen_cor_correction_mean vs run
χ² / ndf 94 / 86
p0 −1731 ± 1420
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −440.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

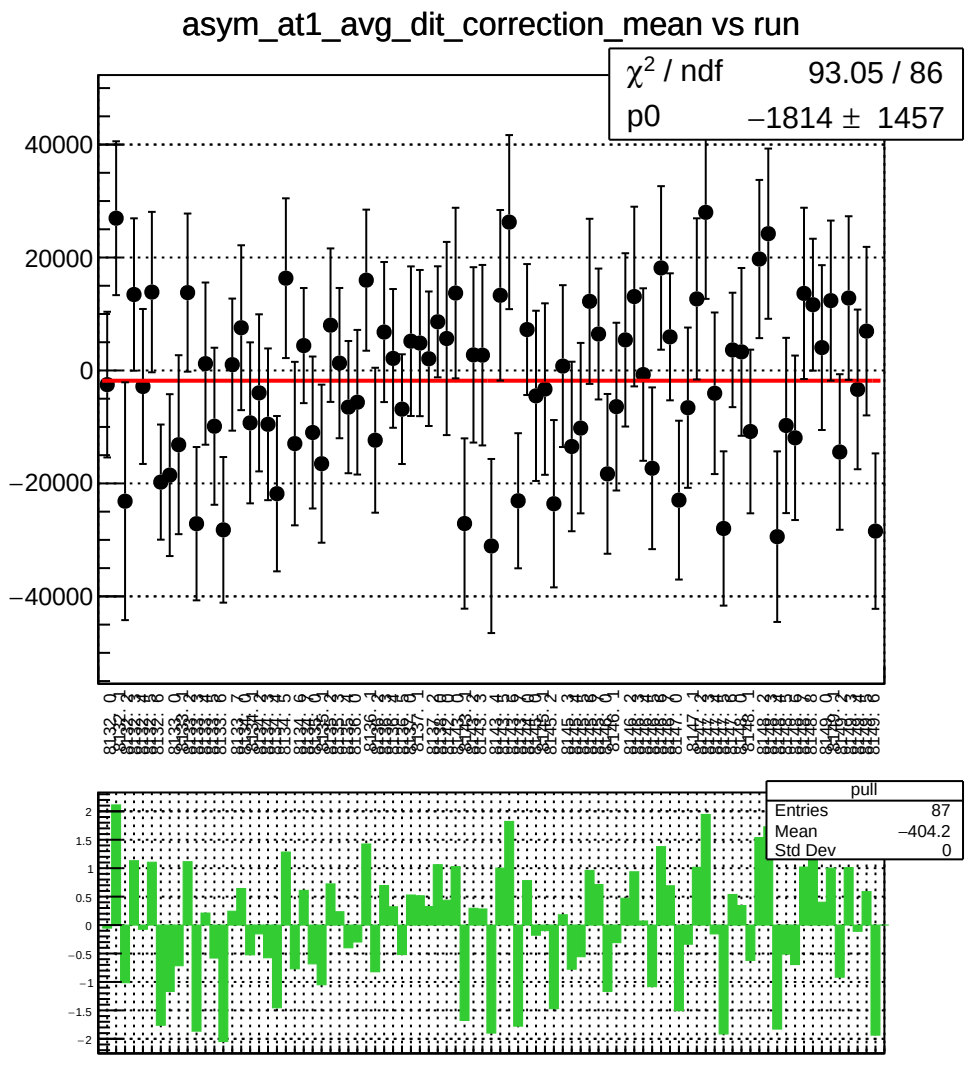

pull1D
Entries 87
Mean −0.004176
Std Dev 1.039
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

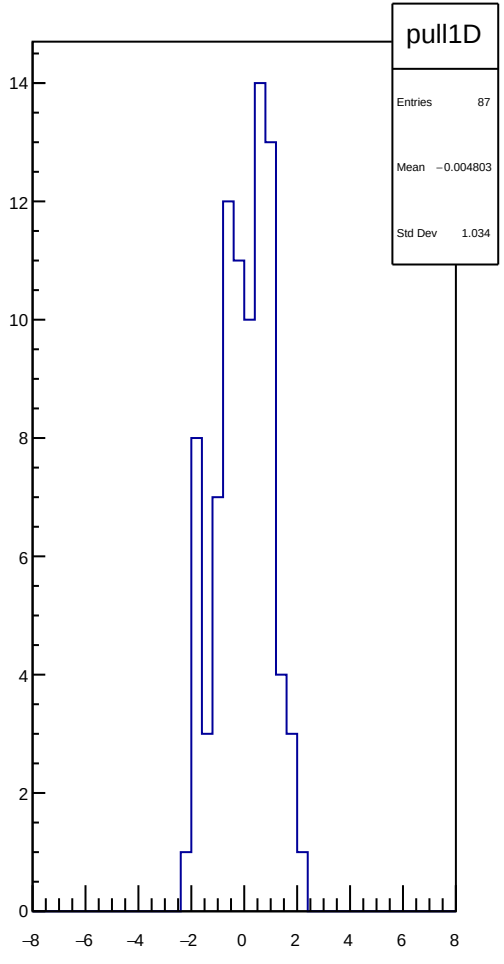

asym_at1_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.095e+04 / 86
p0 1309 ± 1.004
1700
1600
1500
1400
1300
1200
1100
1000

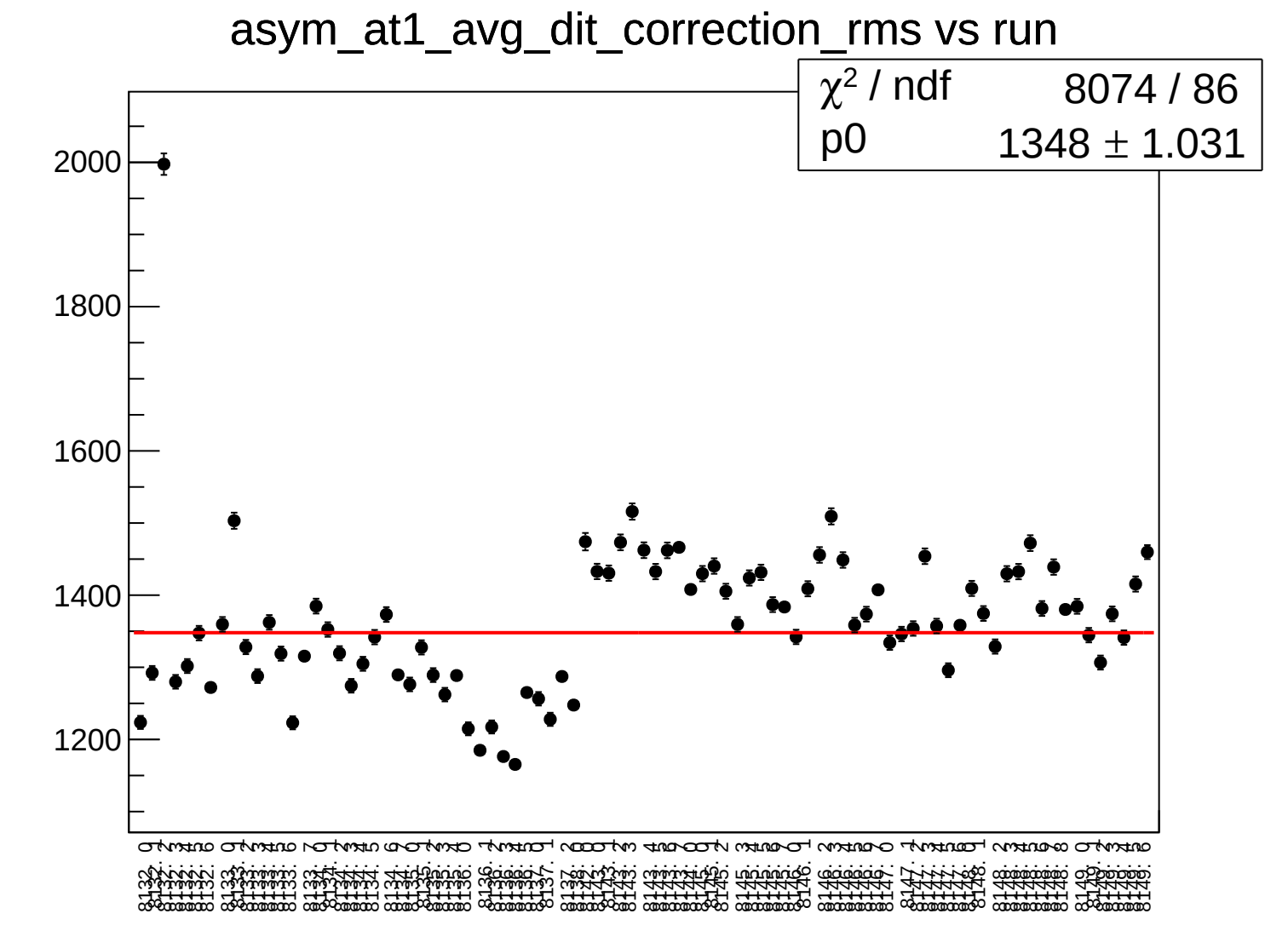

dit_asym_at1_avg_mean vs run
χ² / ndf 83.84 / 86
p0 2625 ± 2001
pull
Entries 87
Mean −1349
Std Dev 0

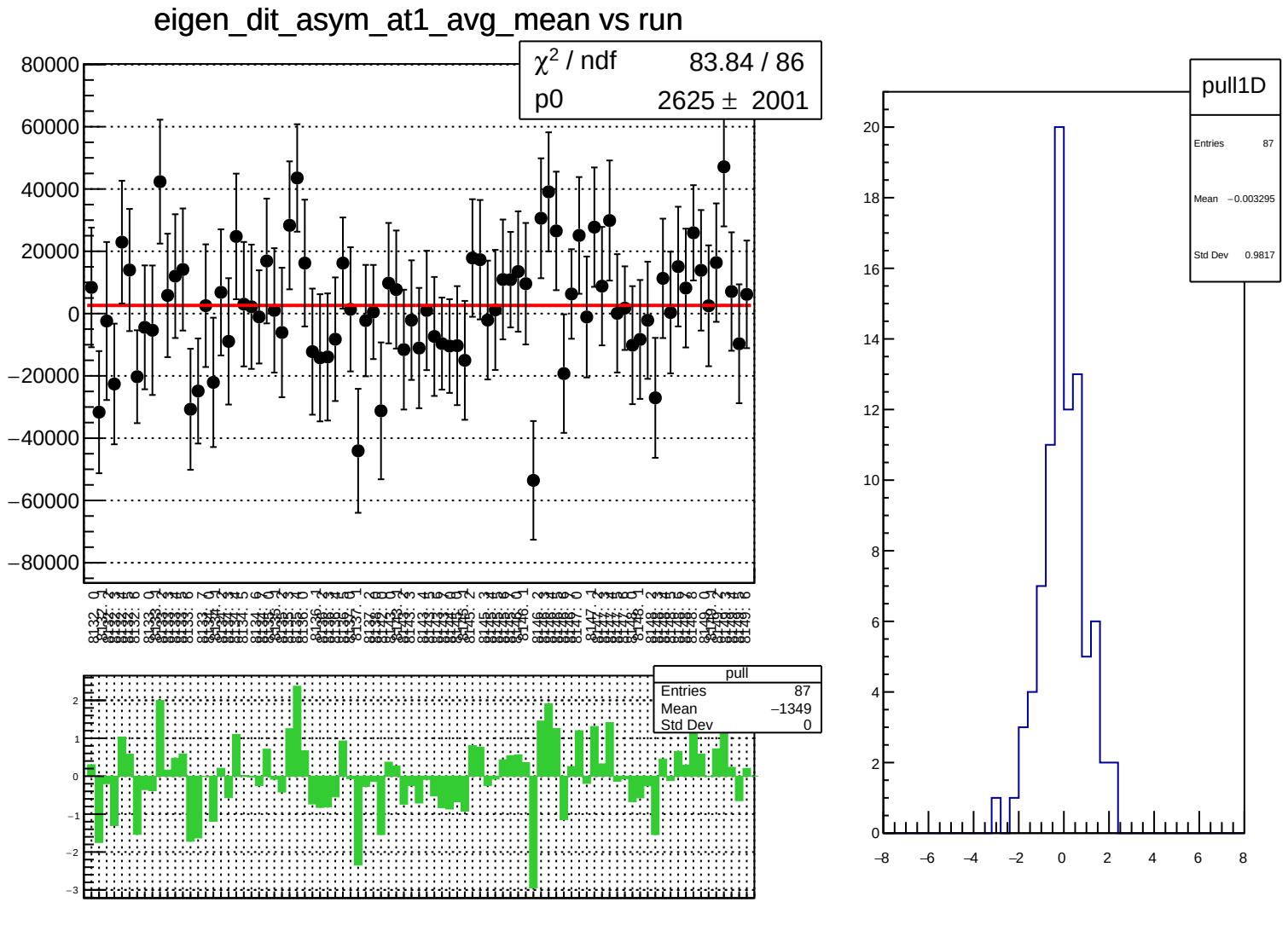

pull1D
Entries 87
Mean −0.003295
Std Dev 0.9817

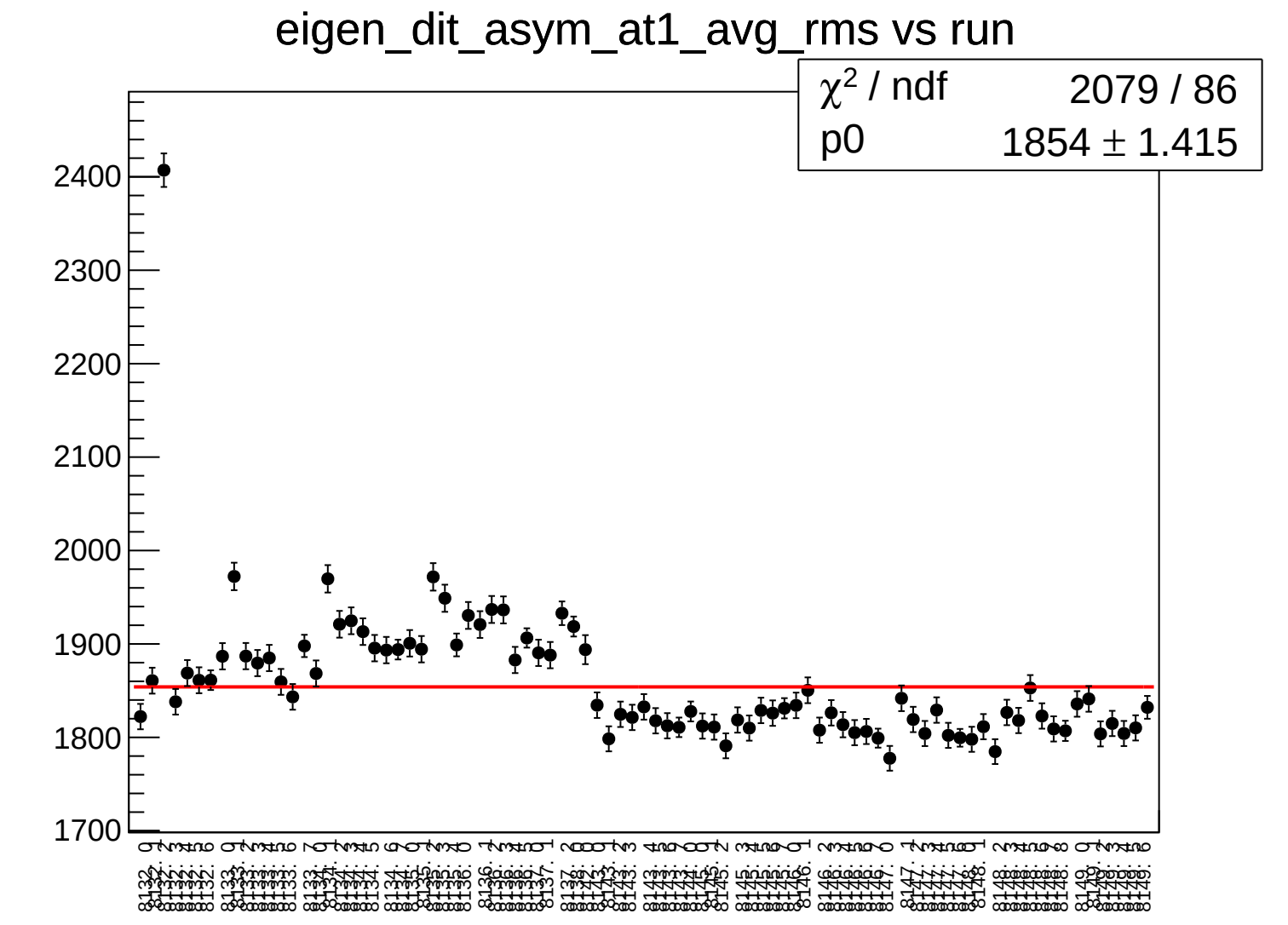

dit_asym_at1_avg_rms vs run
χ^2 / ndf 2079 / 86
p0 1854 ± 1.415
2400
2300
2200
2100
2000
1900
1800
1700

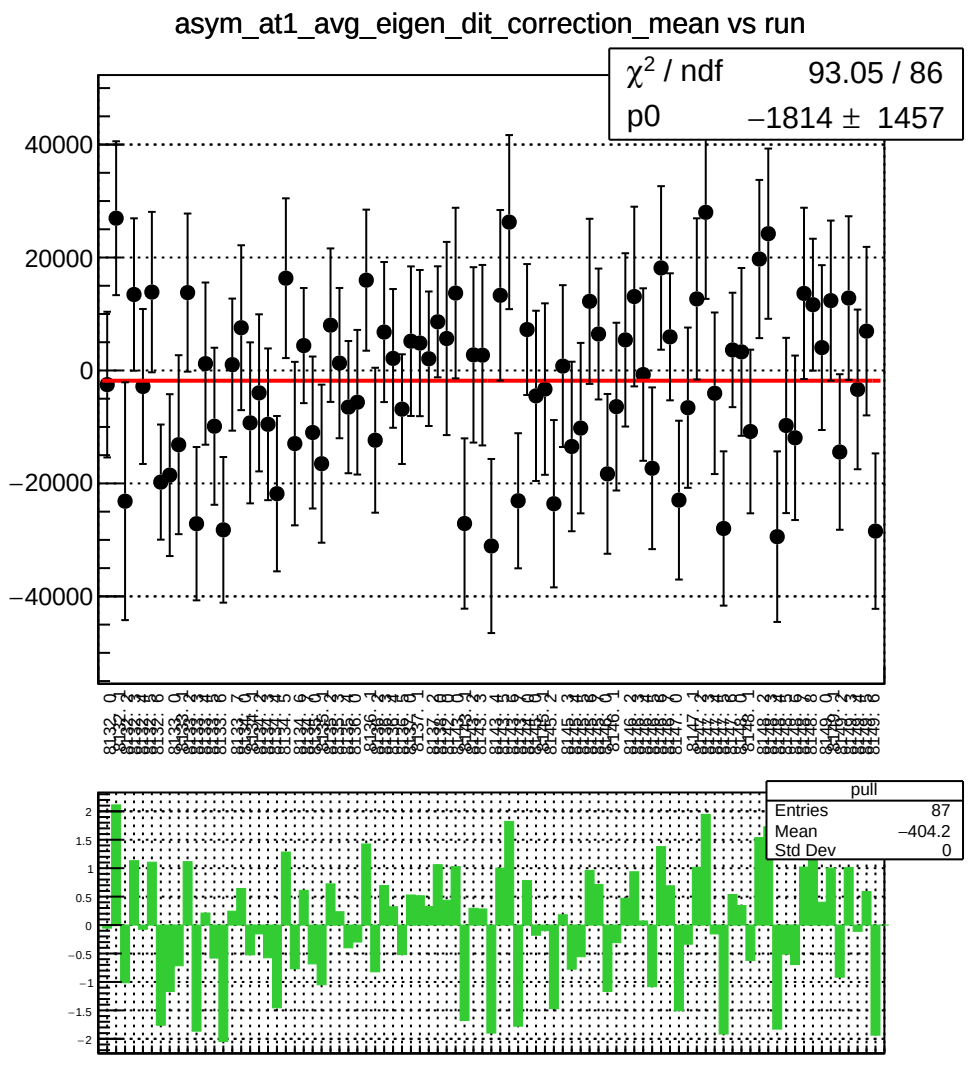

asym_at1_avg_dit_correction_mean vs run
χ² / ndf 93.05 / 86
p0 −1814 ± 1457
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −404.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

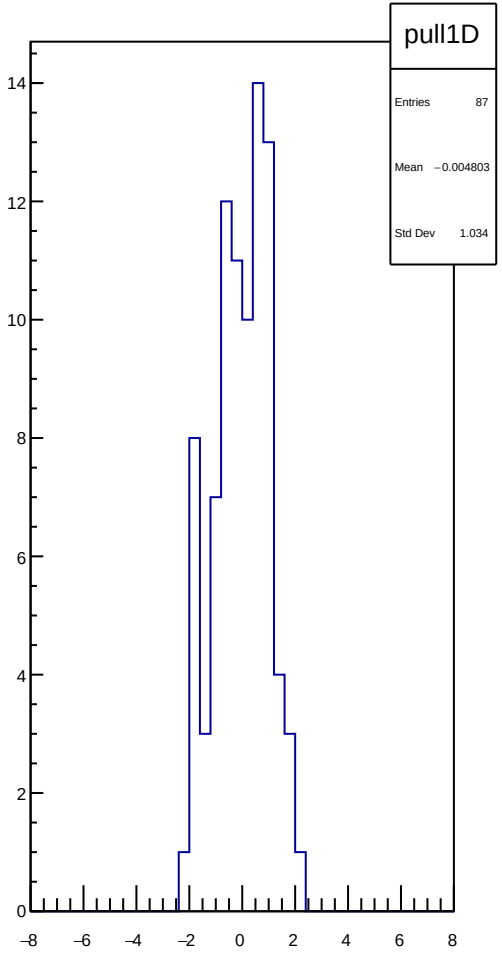

pull1D
Entries 87
Mean −0.004803
Std Dev 1.034
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

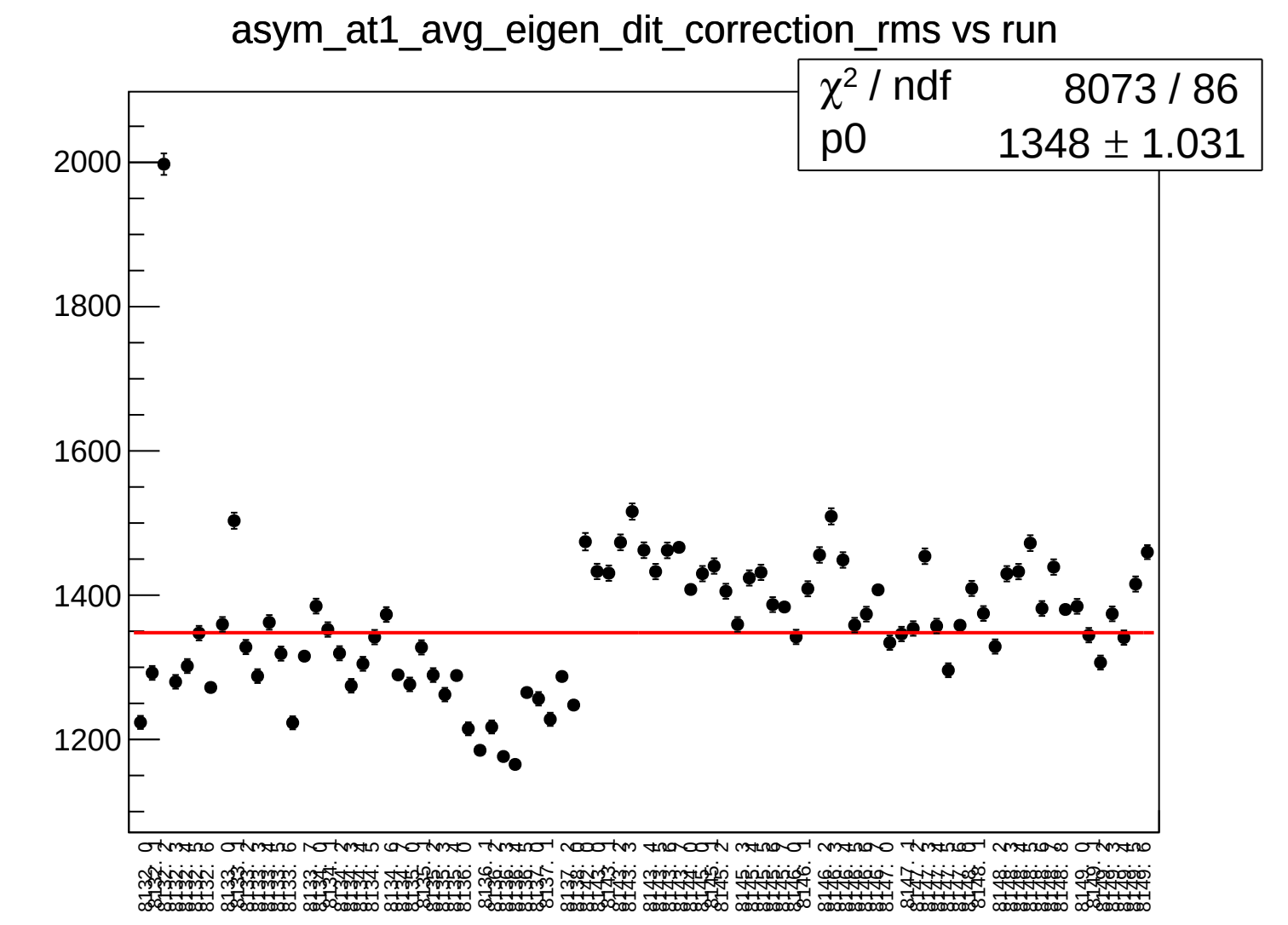

asym_at1_avg_dit_correction_rms vs run
χ² / ndf 8074 / 86
p0 1348 ± 1.031
2000
1800
1600
1400
1200

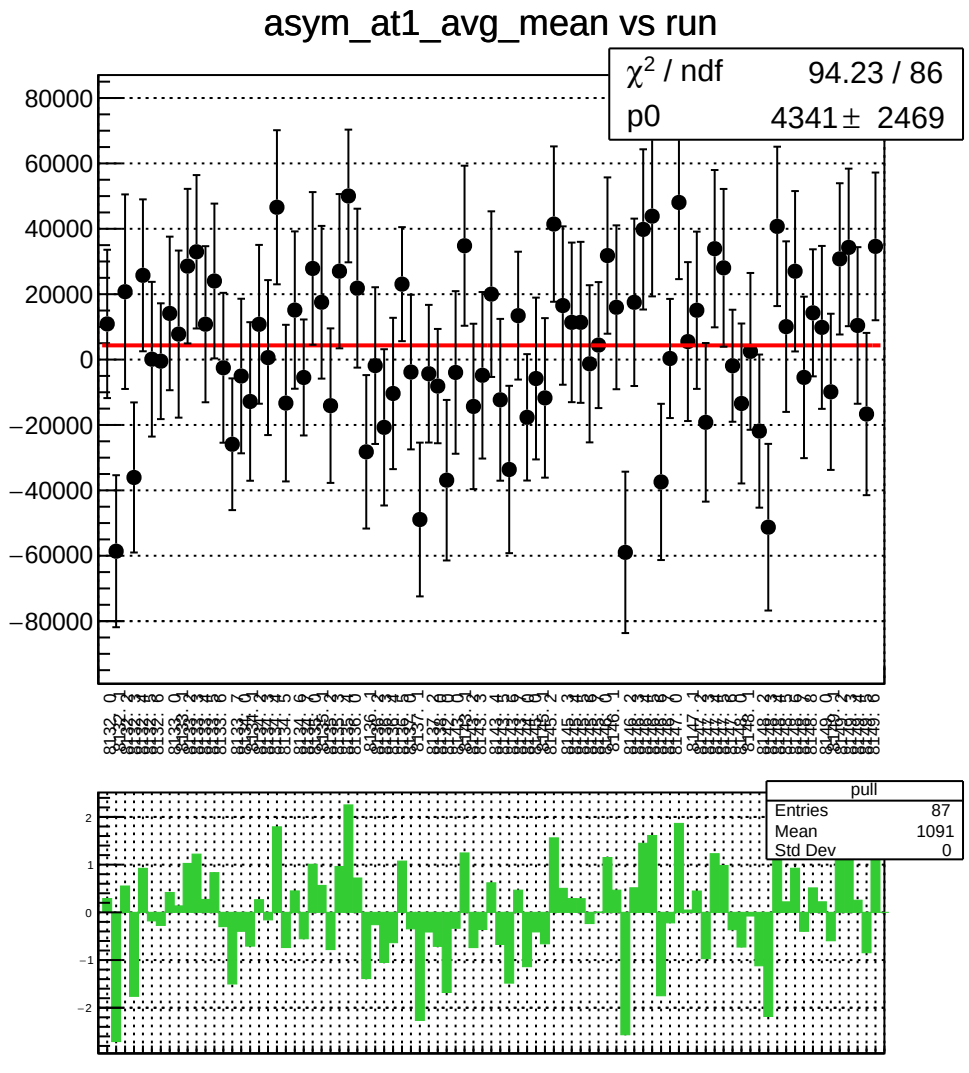

eigen_dit_asym_at1_avg_mean vs run
χ² / ndf 83.84 / 86
p0 2625 ± 2001
pull
Entries 87
Mean −1349
Std Dev 0
pull1D
Entries 87
Mean −0.003295
Std Dev 0.9817

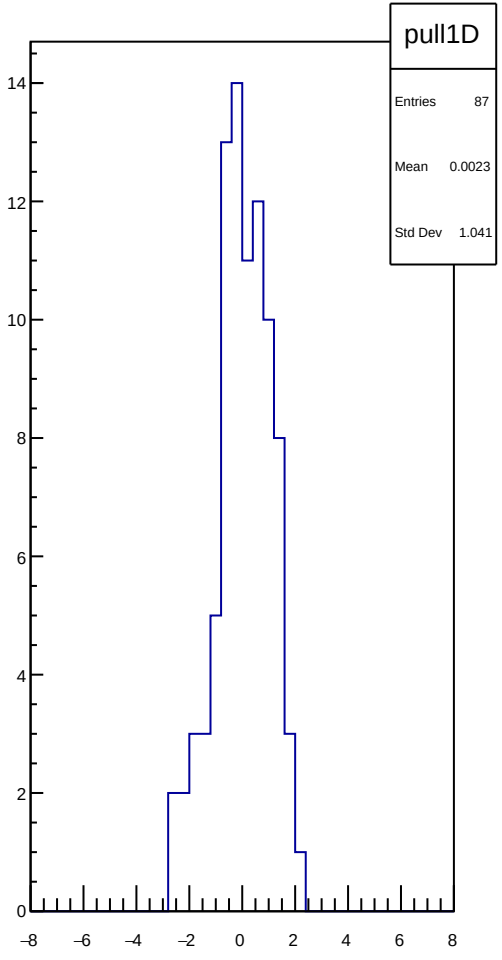

eigen_dit_asym_at1_avg_rms vs run
χ² / ndf 2079 / 86
p0 1854 ± 1.415
2400
2300
2200
2100
2000
1900
1800
1700

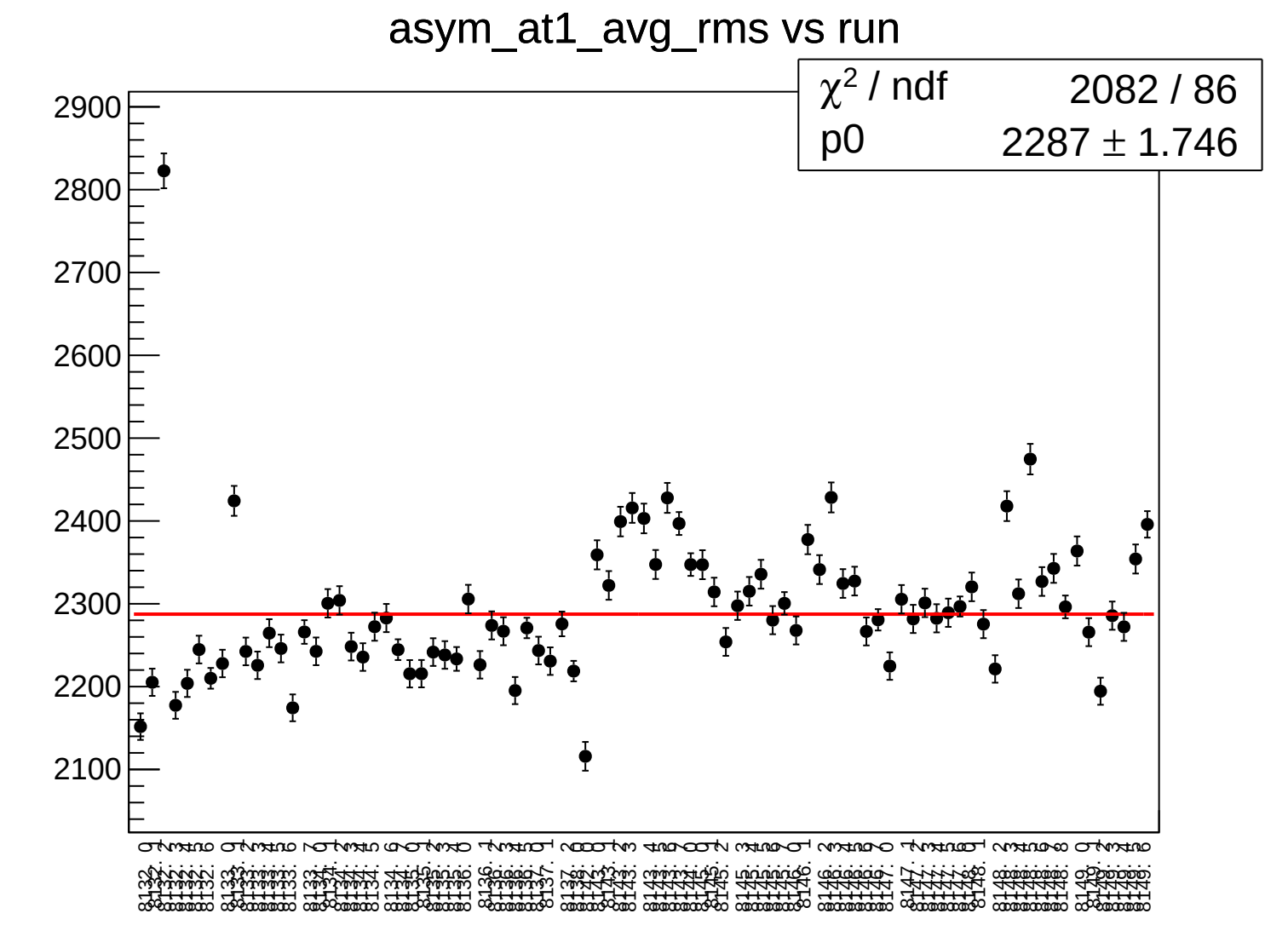

asym_at1_avg_eigen_dit_correction_mean vs run
χ² / ndf 93.05 / 86
p0 −1814 ± 1457
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −404.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

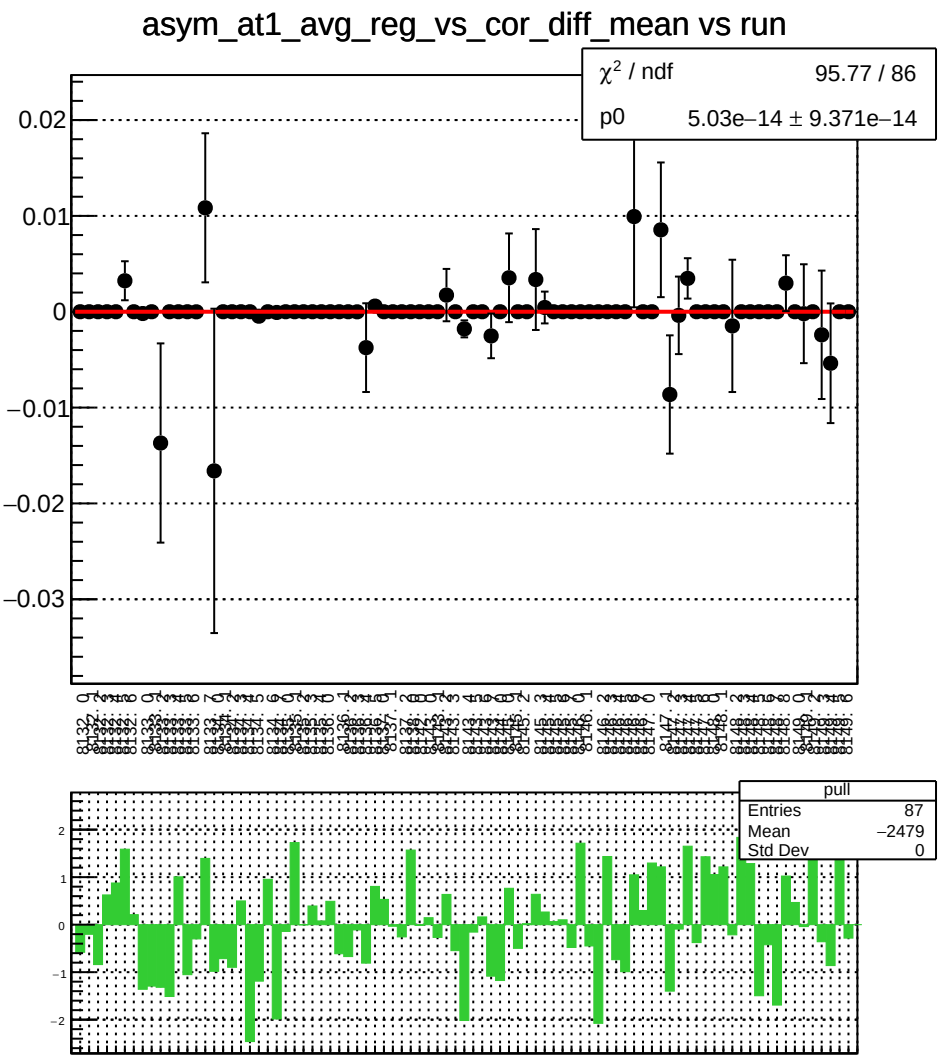

pull1D
Entries 87
Mean −0.004803
Std Dev 1.034
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

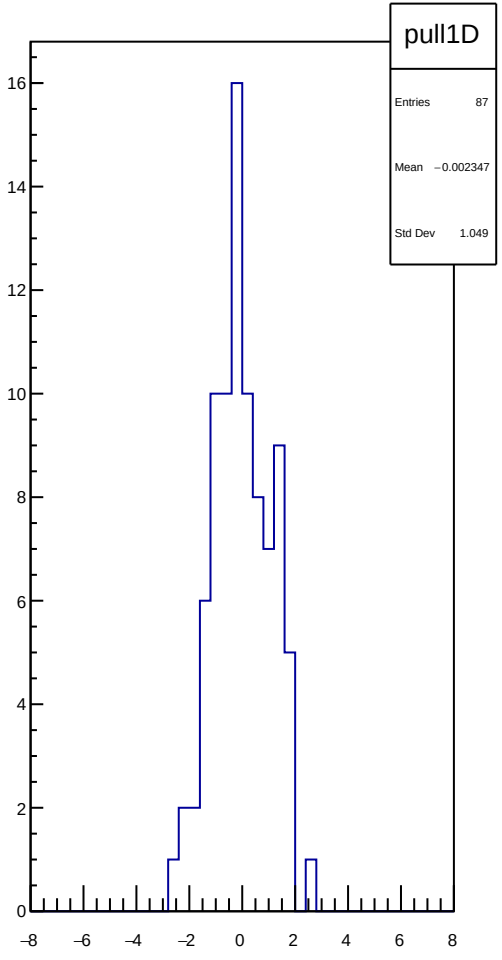

asym_at1_avg_eigen_dit_correction_rms vs run
χ² / ndf 8073 / 86
p0 1348 ± 1.031
2000
1800
1600
1400
1200

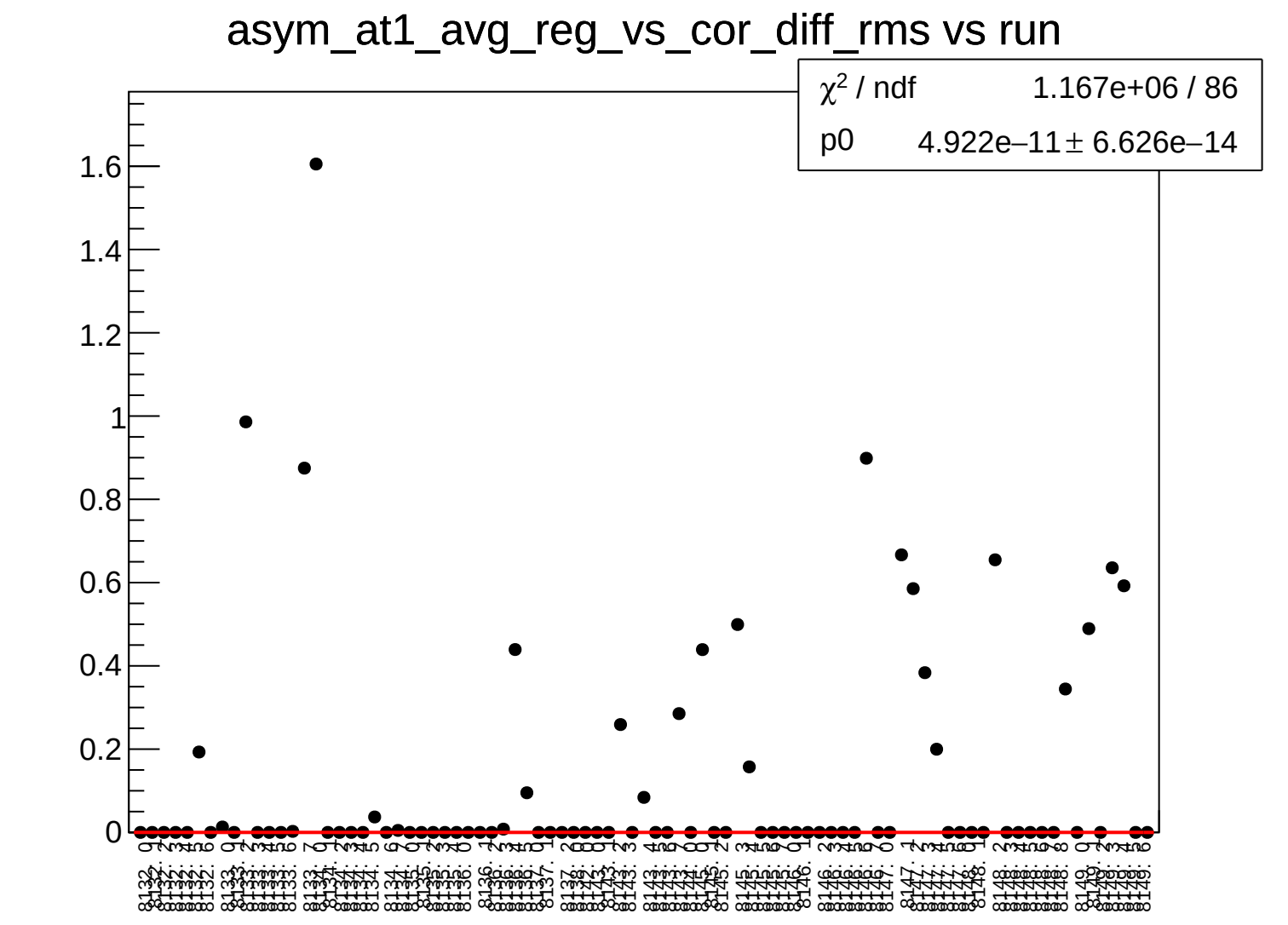

asym_at1_avg_mean vs run
χ² / ndf 94.23 / 86
p0 4341 ± 2469
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean 1091
Std Dev 0
2
1
0
−1
−2

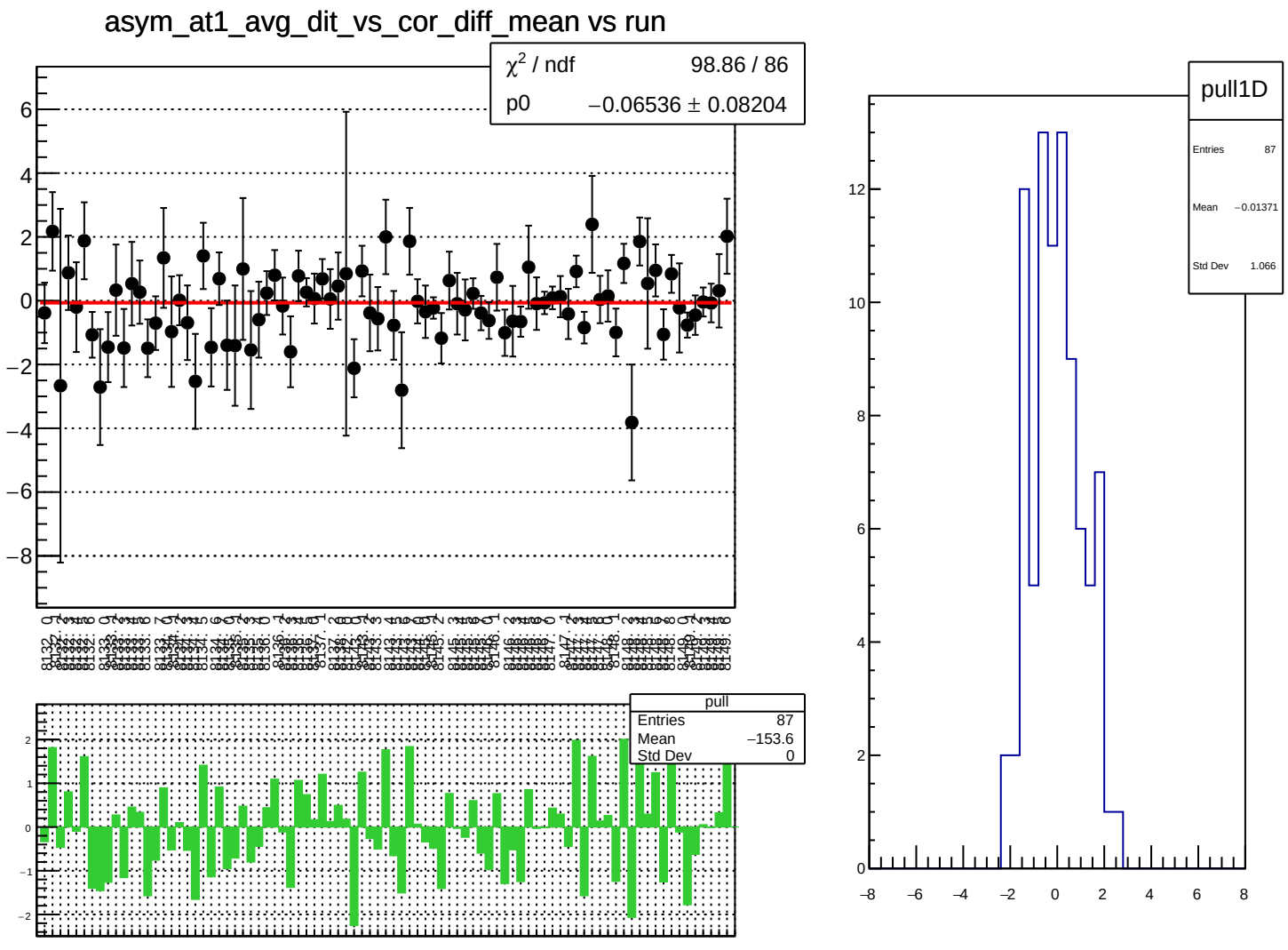

pull1D
Entries 87
Mean 0.0023
Std Dev 1.041
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

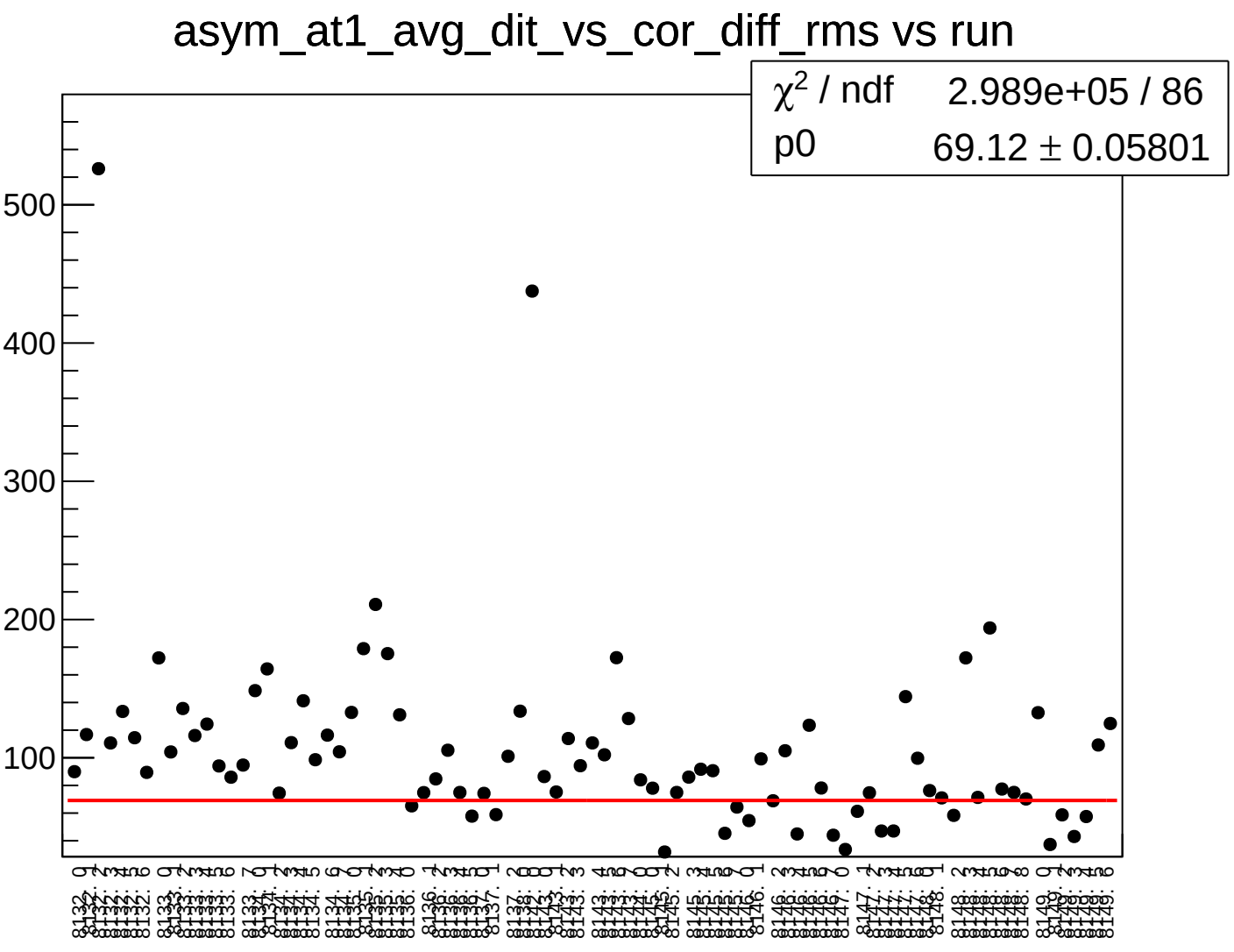

asym_at1_avg_rms vs run
χ² / ndf 2082 / 86
p0 2287 ± 1.746
2900
2800
2700
2600
2500
2400
2300
2200
2100

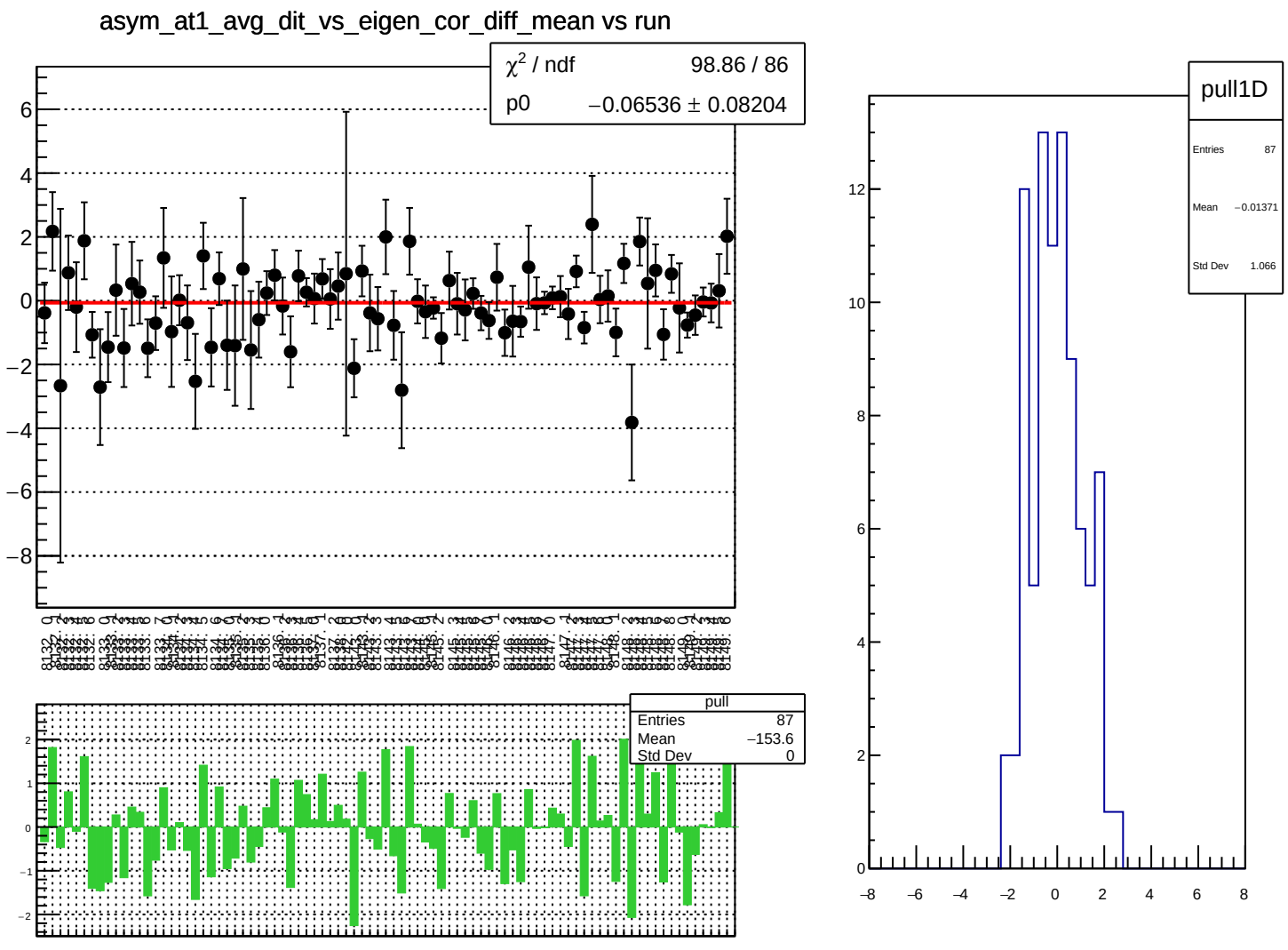

asym_at1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 95.77 / 86
p0 5.03e−14 ± 9.371e−14
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 87
Mean −2479
Std Dev 0
2
1
0
−1
−2

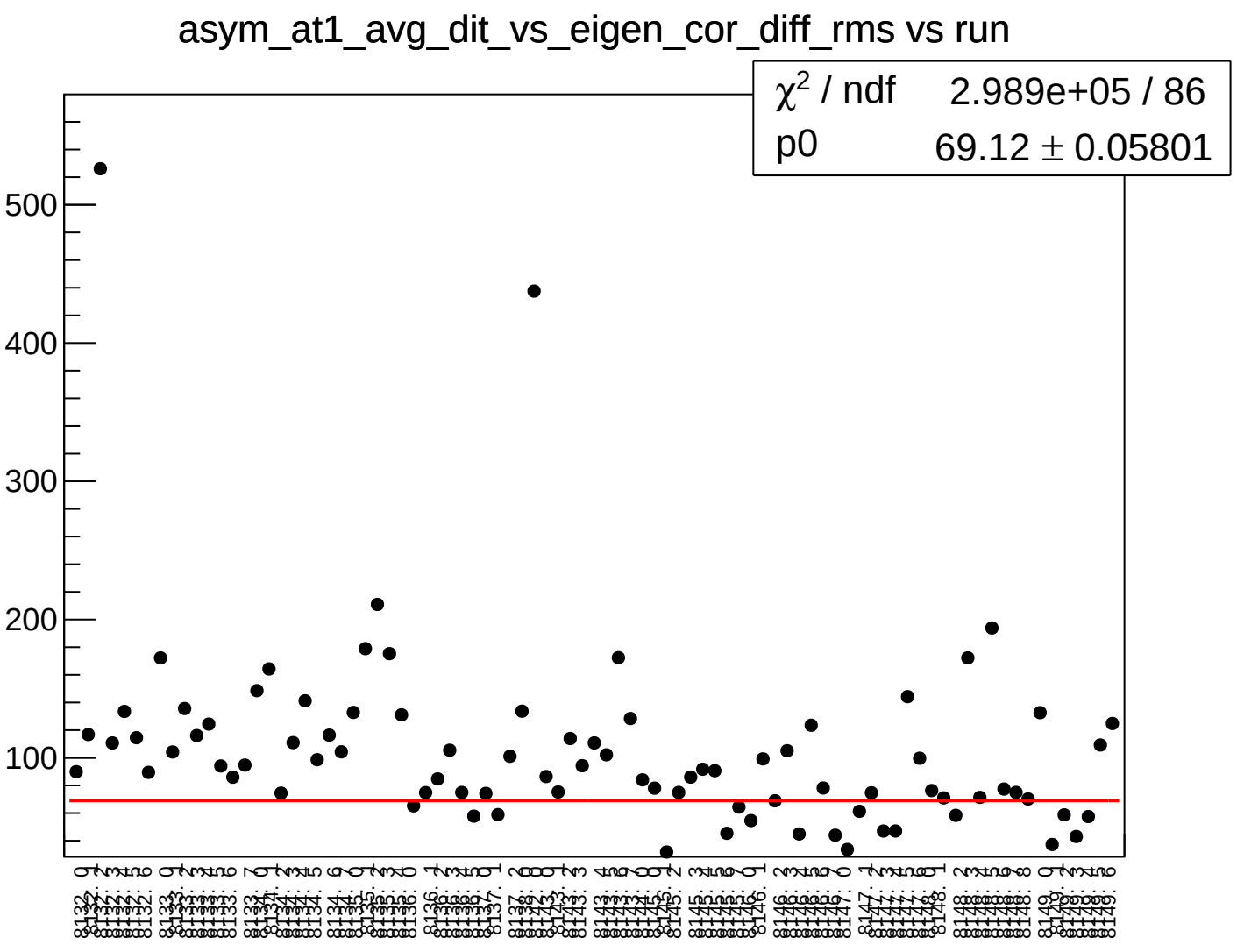

pull1D
Entries 87
Mean −0.002347
Std Dev 1.049
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

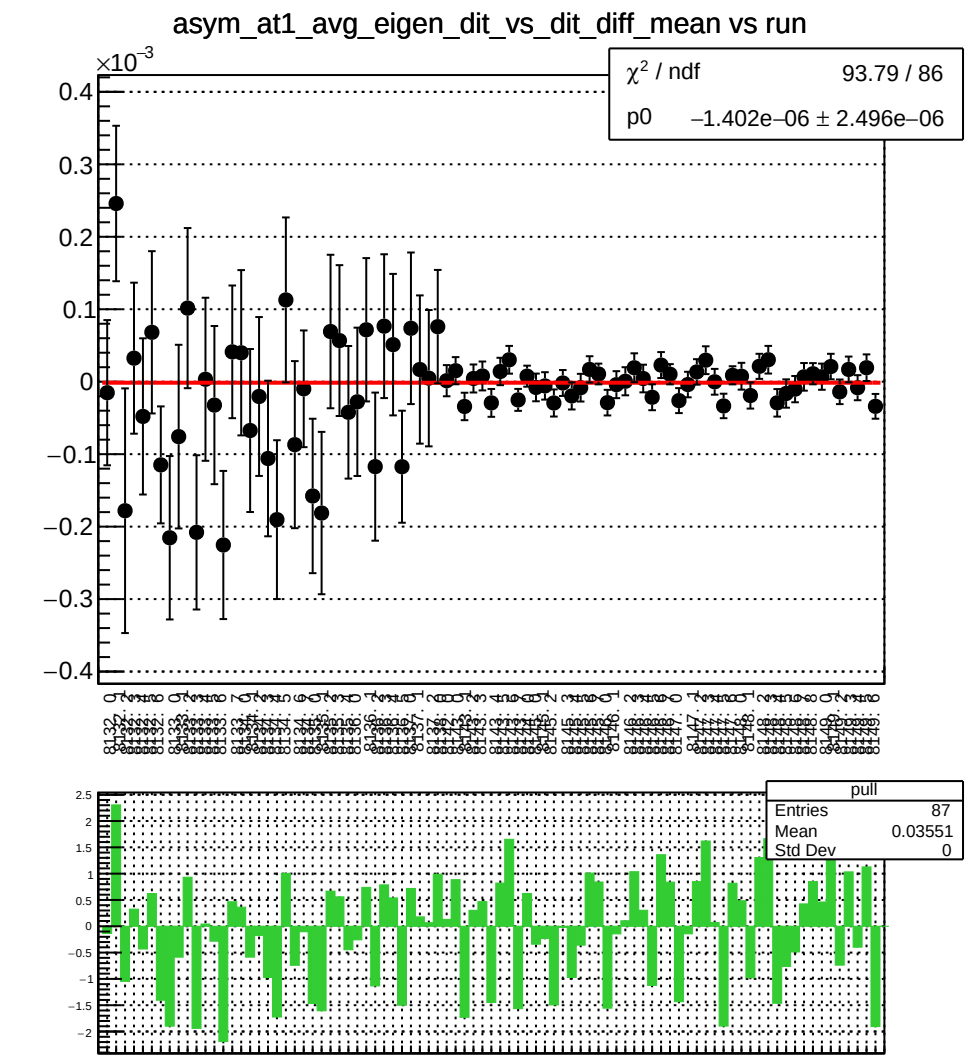

asym_at1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.167e+06 / 86
p0 4.922e−11 ± 6.626e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

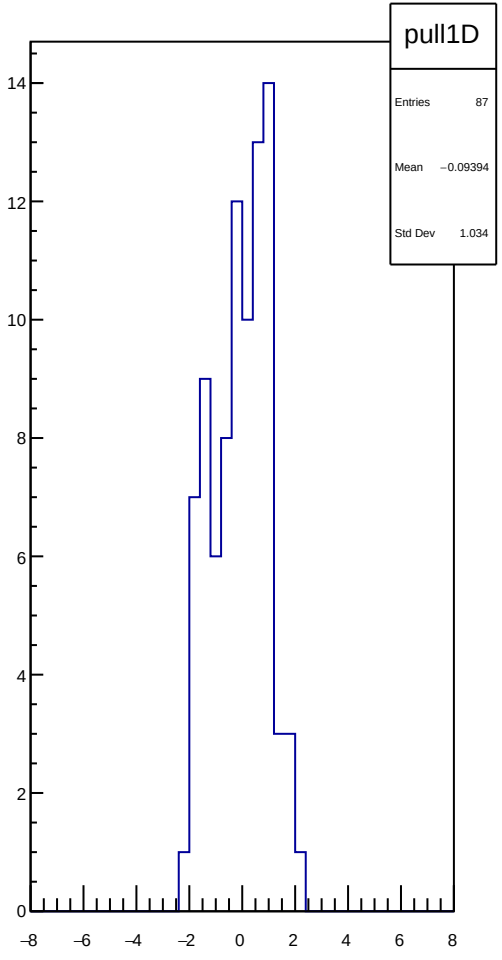

asym_at1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 98.86 / 86
p0 −0.06536 ± 0.08204
pull
Entries 87
Mean −153.6
Std Dev 0
pull1D
Entries 87
Mean −0.01371
Std Dev 1.066

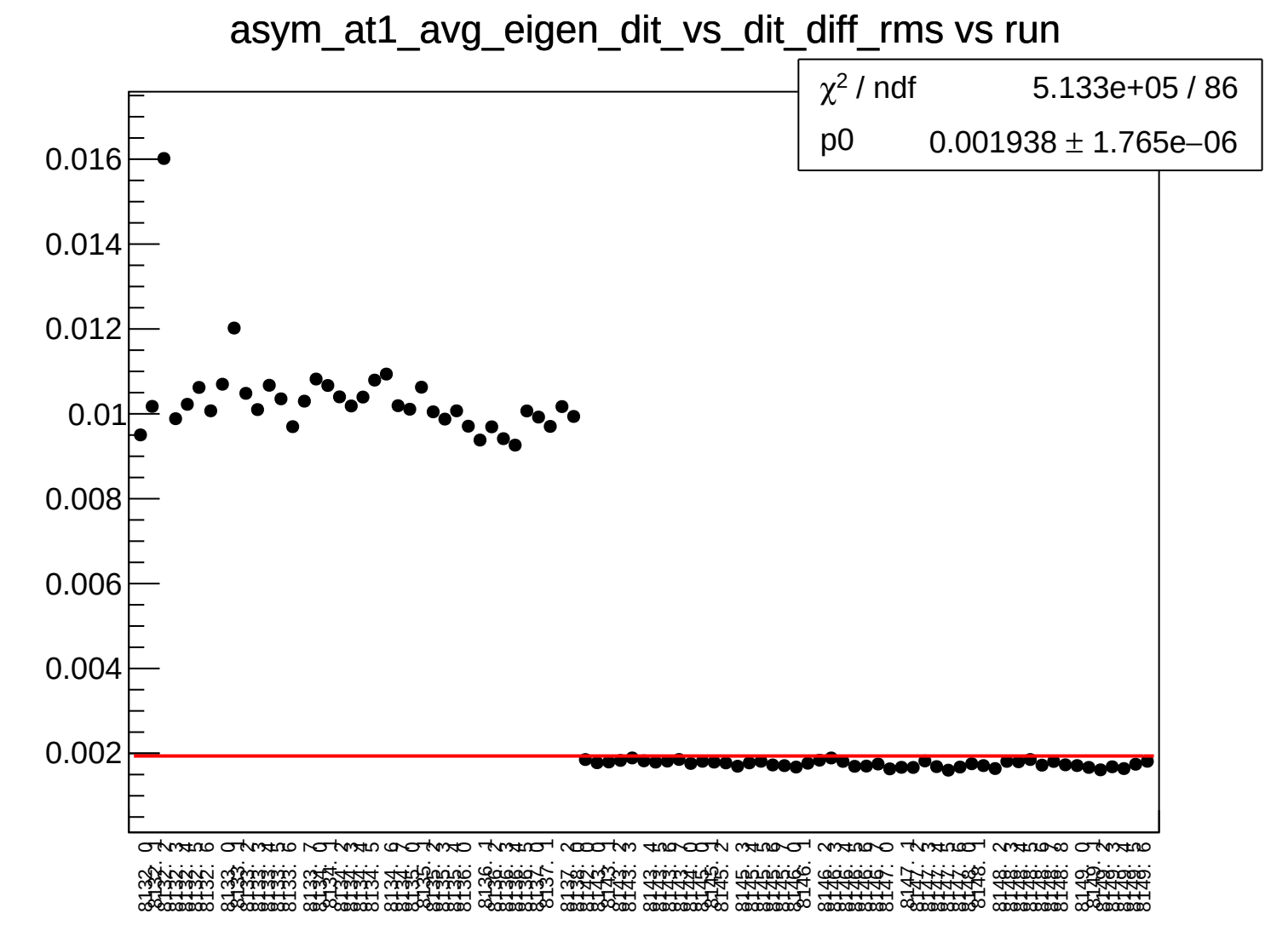

asym_at1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.989e+05 / 86
p0 69.12 ± 0.05801
500
400
300
200
100

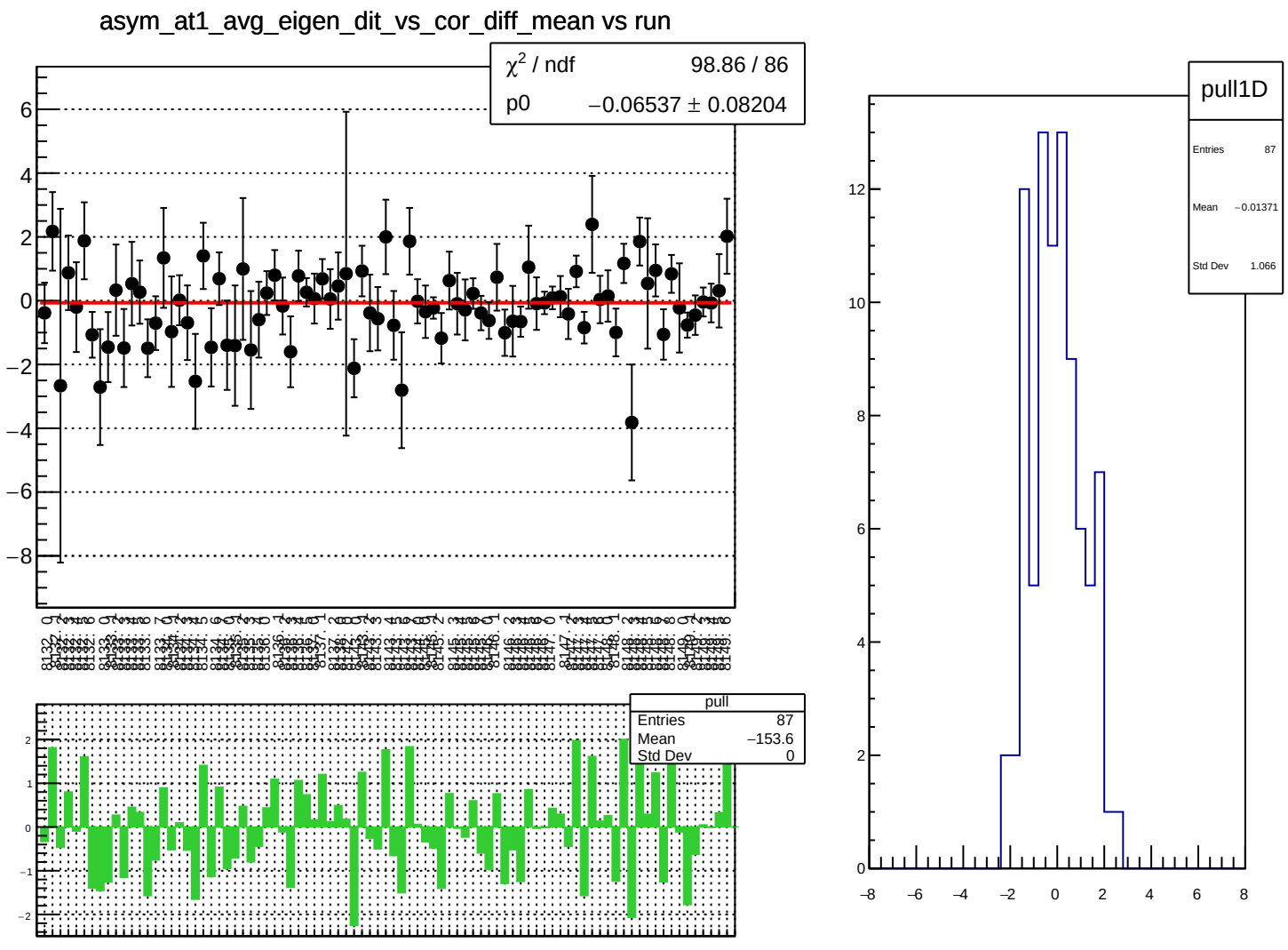

asym_at1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.86 / 86
p0 −0.06536 ± 0.08204
pull
Entries 87
Mean −153.6
Std Dev 0
pull1D
Entries 87
Mean −0.01371
Std Dev 1.066

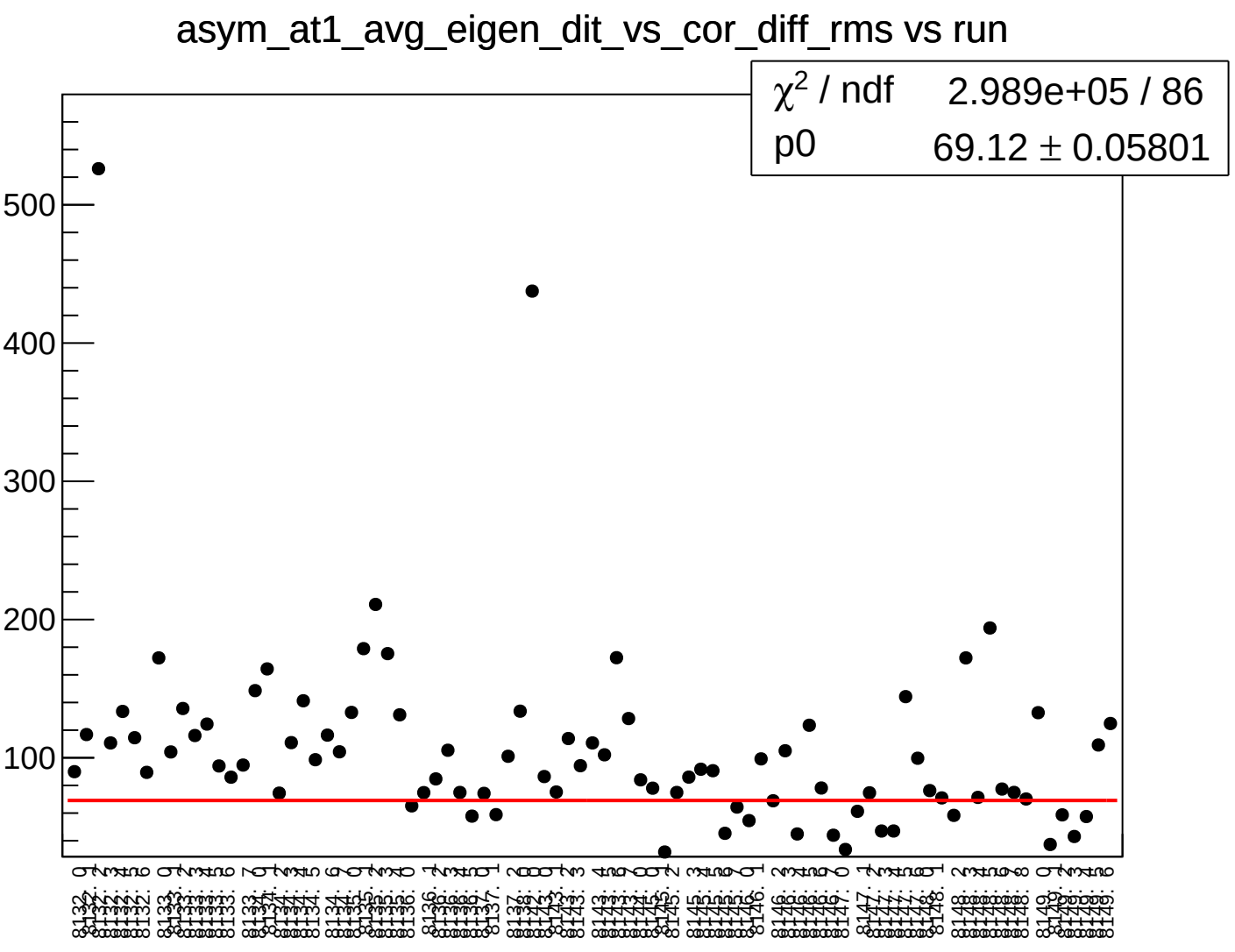

asym_at1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.989e+05 / 86
p0 69.12 ± 0.05801
500
400
300
200
100

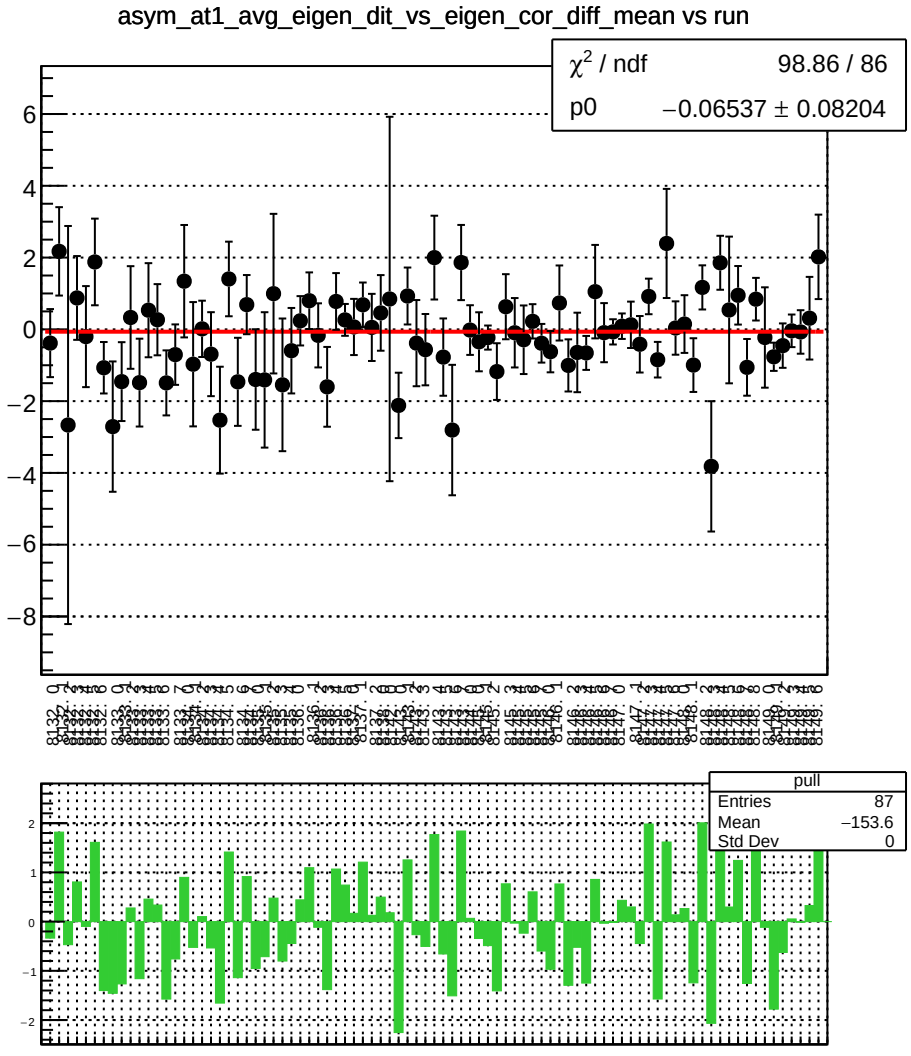

asym_at1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.79 / 86
p0 −1.402e−06 ± 2.496e−06
pull
Entries 87
Mean 0.03551
Std Dev 0

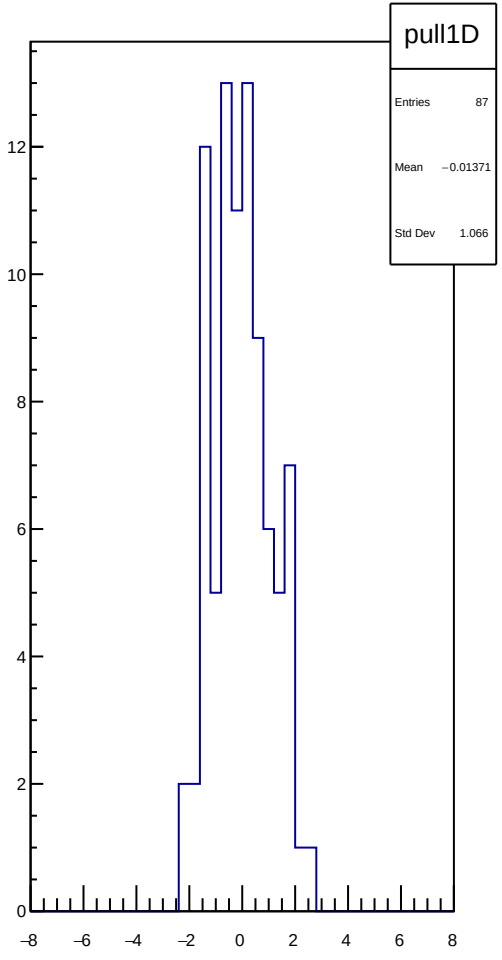

pull1D
Entries 87
Mean −0.09394
Std Dev 1.034

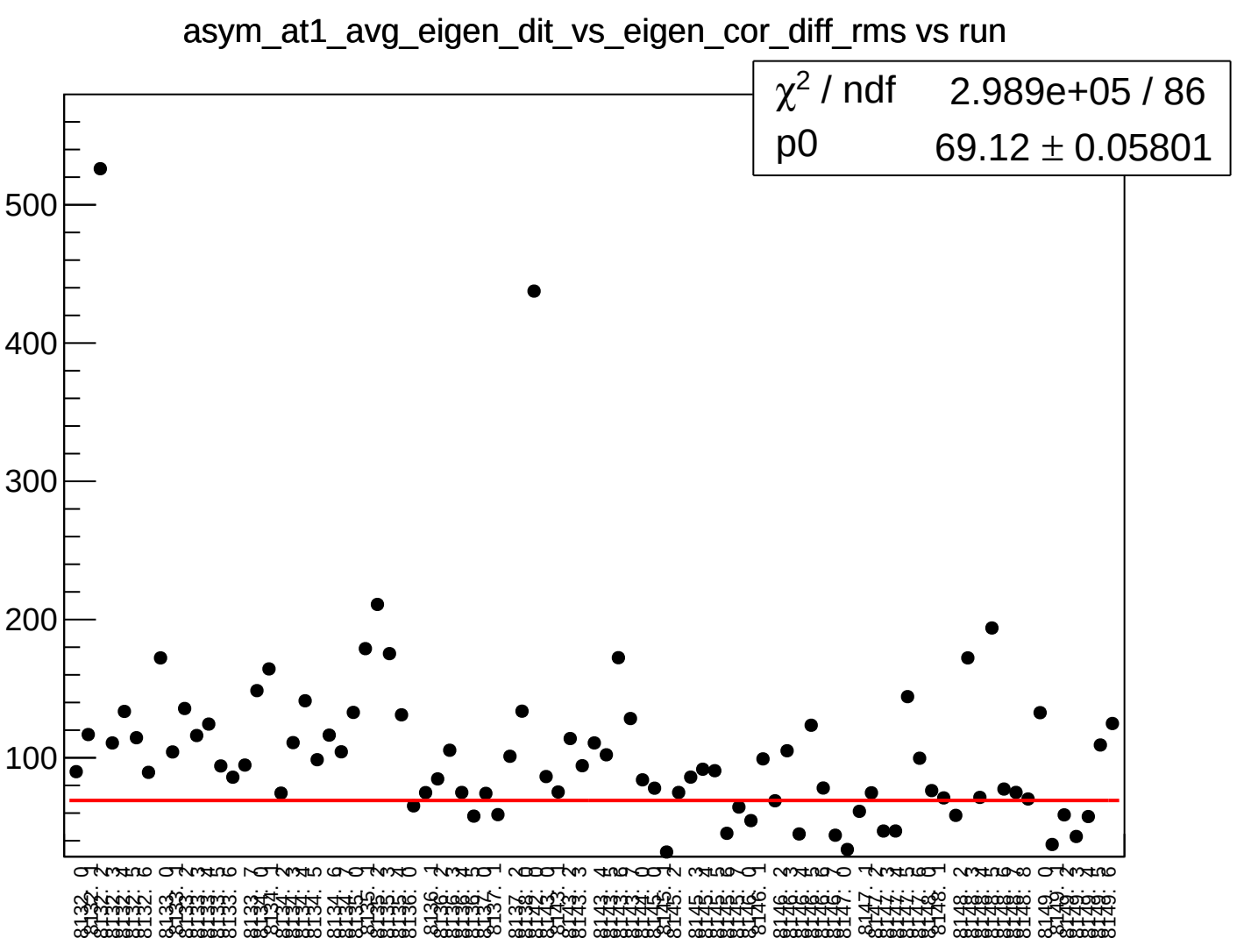

asym_at1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.133e+05 / 86
p0 0.001938 ± 1.765e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

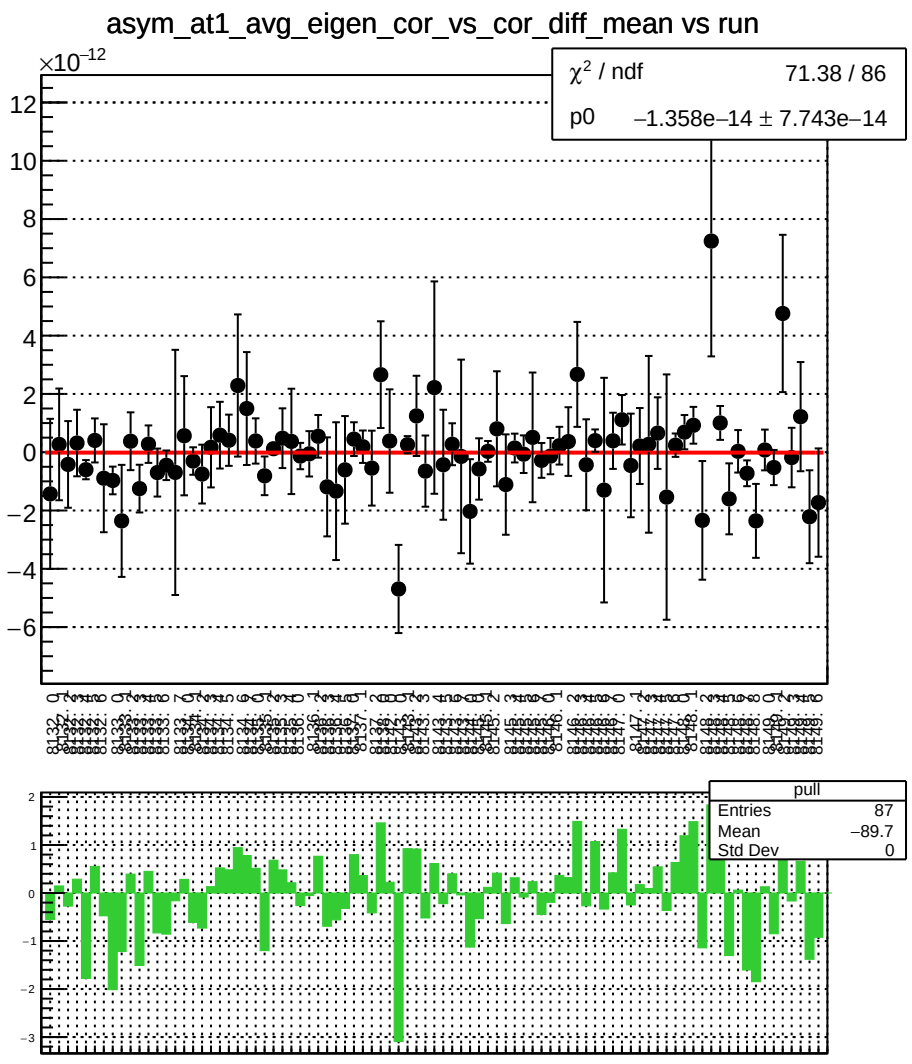

asym_at1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 98.86 / 86
p0 −0.06537 ± 0.08204
pull
Entries 87
Mean −153.6
Std Dev 0
pull1D
Entries 87
Mean −0.01371
Std Dev 1.066

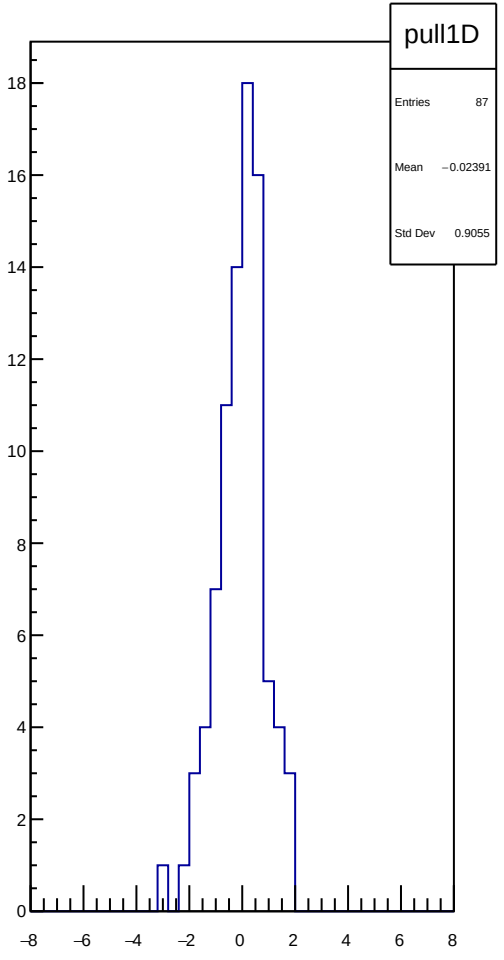

asym_at1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.989e+05 / 86
p0 69.12 ± 0.05801
500
400
300
200
100

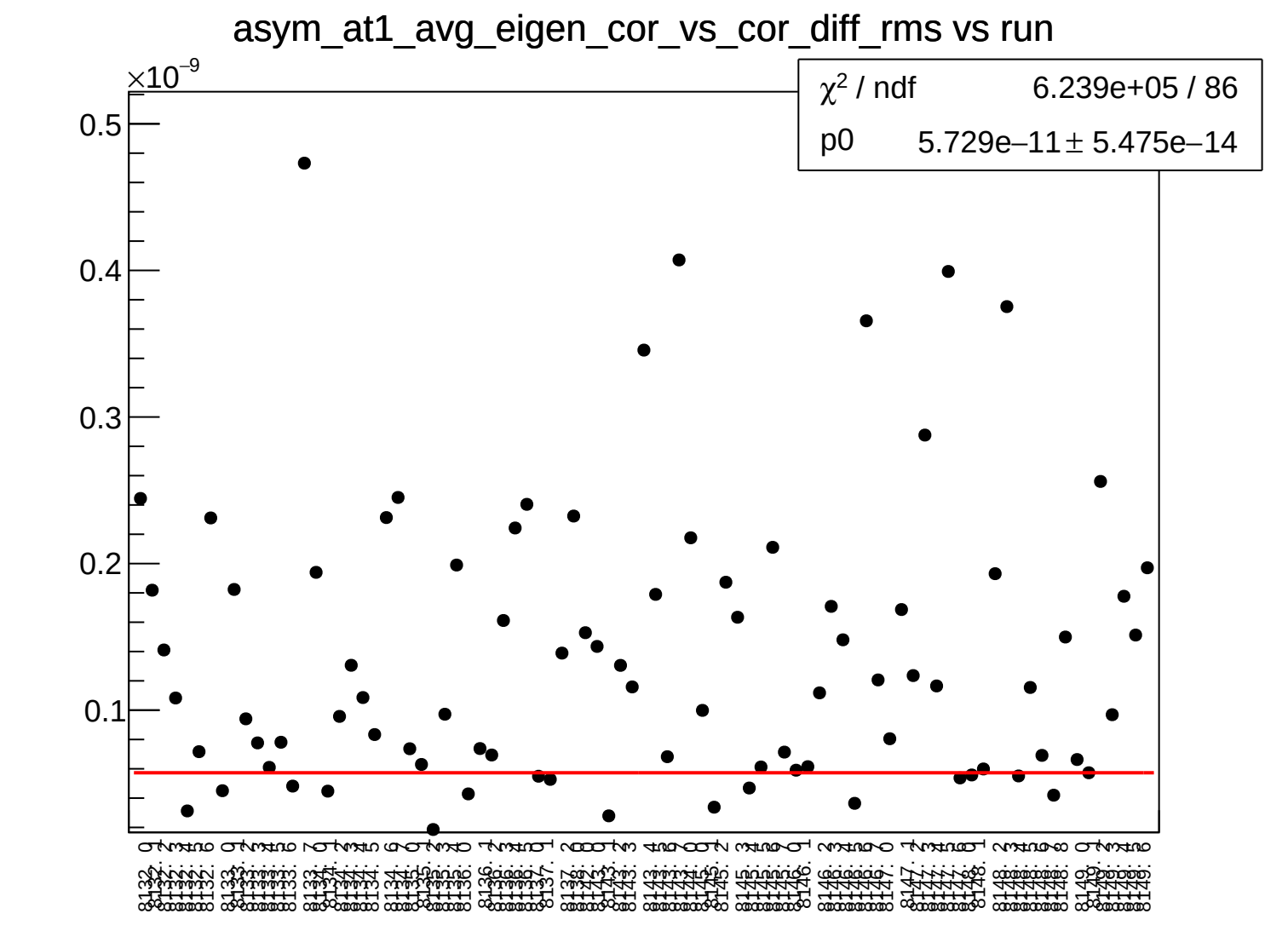

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.86 / 86
p0 −0.06537 ± 0.08204
pull
Entries 87
Mean −153.6
Std Dev 0

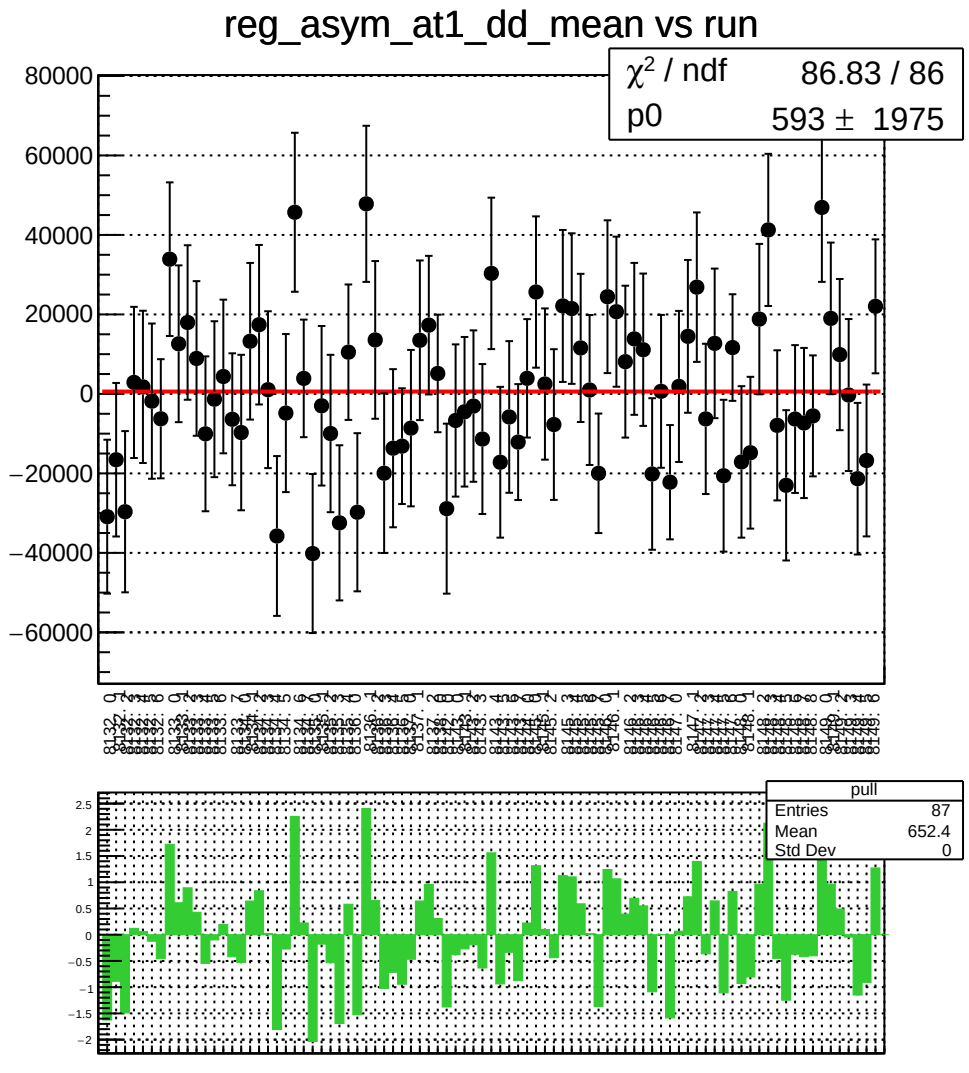

pull1D
Entries 87
Mean −0.01371
Std Dev 1.066

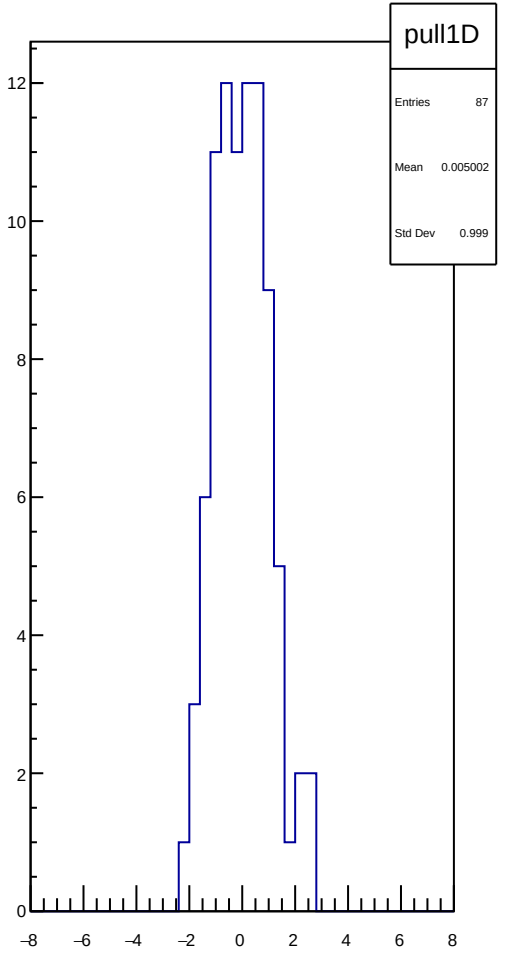

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.989e+05 / 86
p0 69.12 ± 0.05801
500
400
300
200
100

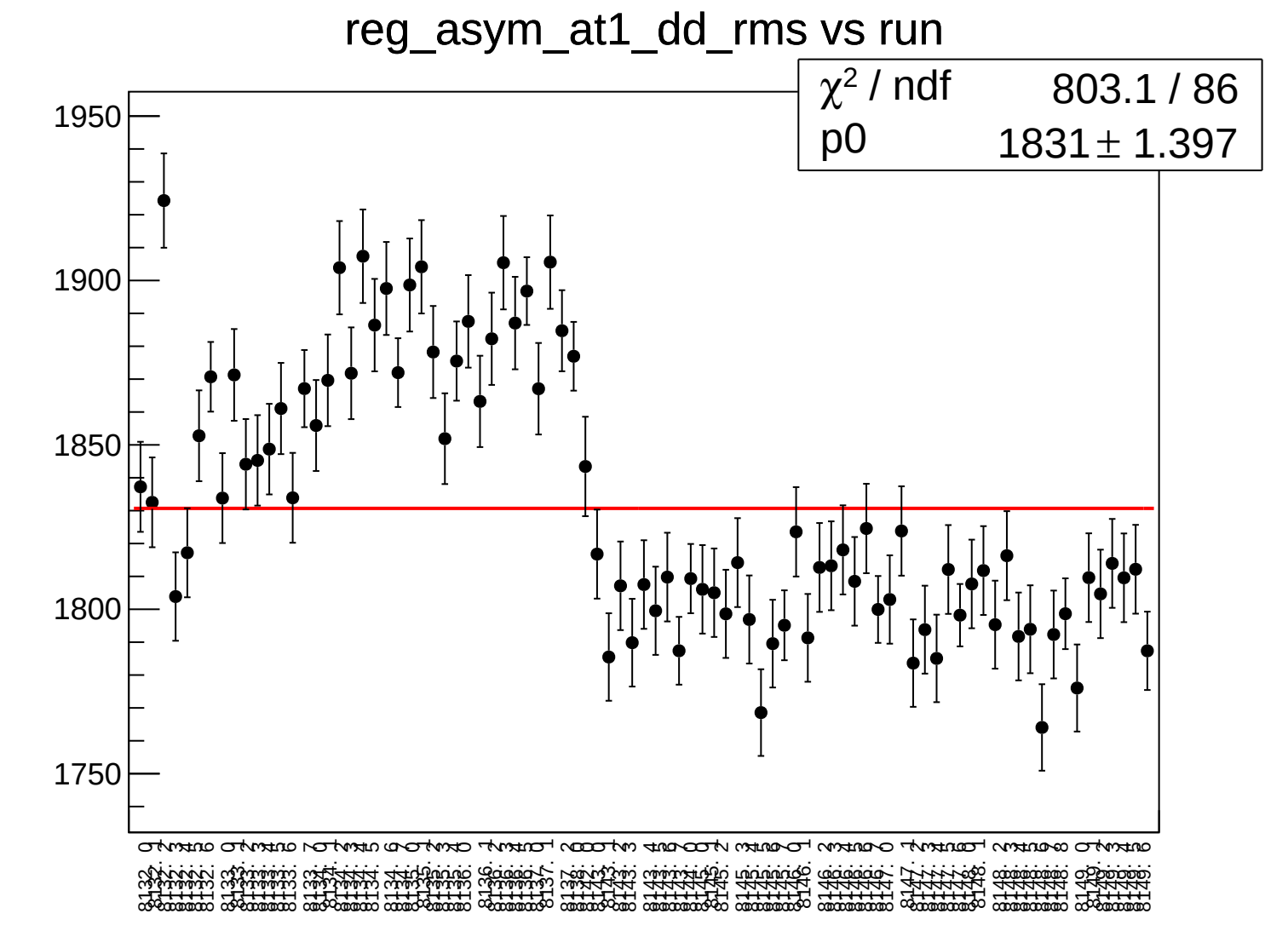

asym_at1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 71.38 / 86
p0 −1.358e−14 ± 7.743e−14
pull
Entries 87
Mean −89.7
Std Dev 0

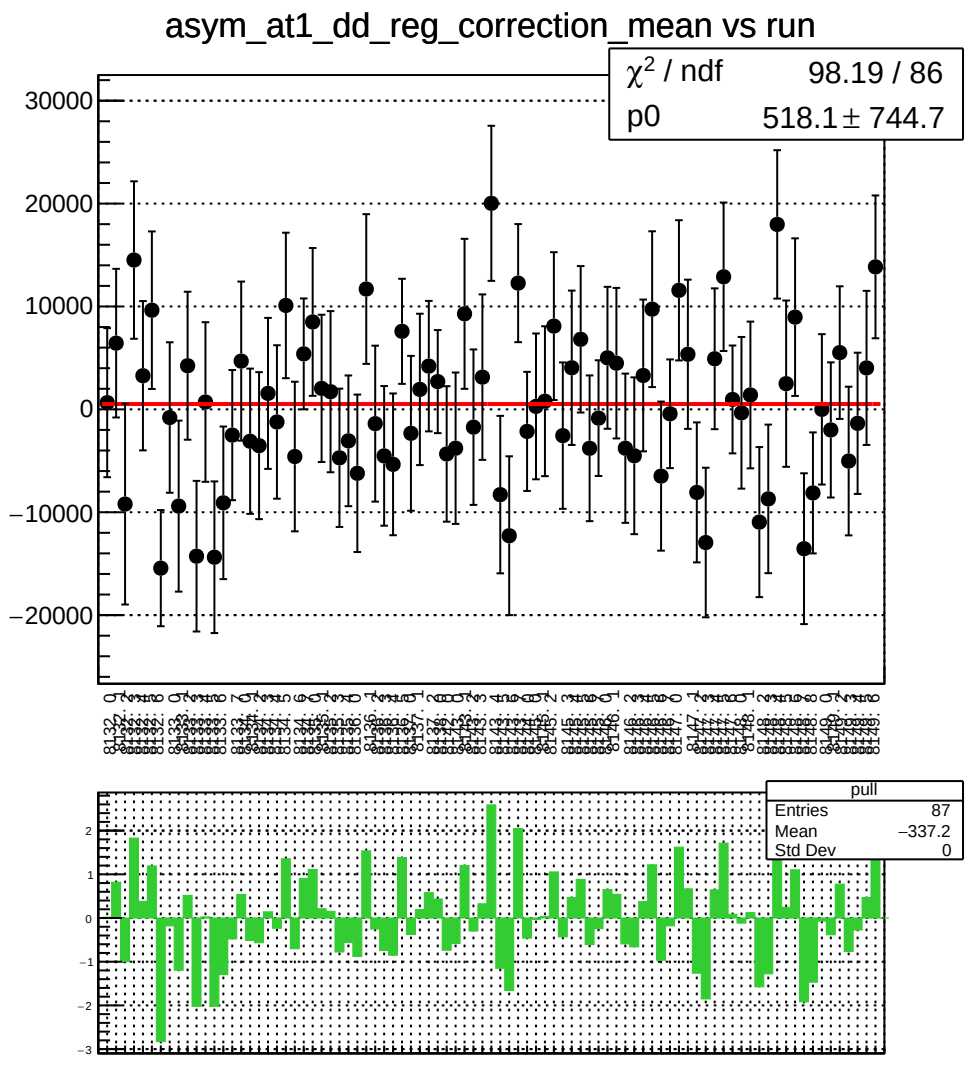

pull1D
Entries 87
Mean −0.02391
Std Dev 0.9055

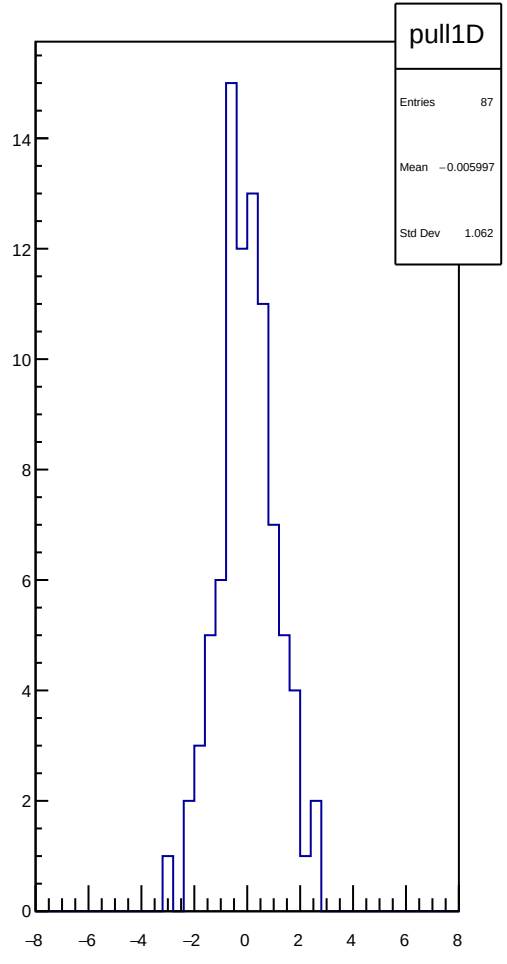

asym_at1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.239e+05 / 86
p0 5.729e−11 ± 5.475e−14
0.5
0.4
0.3
0.2
0.1

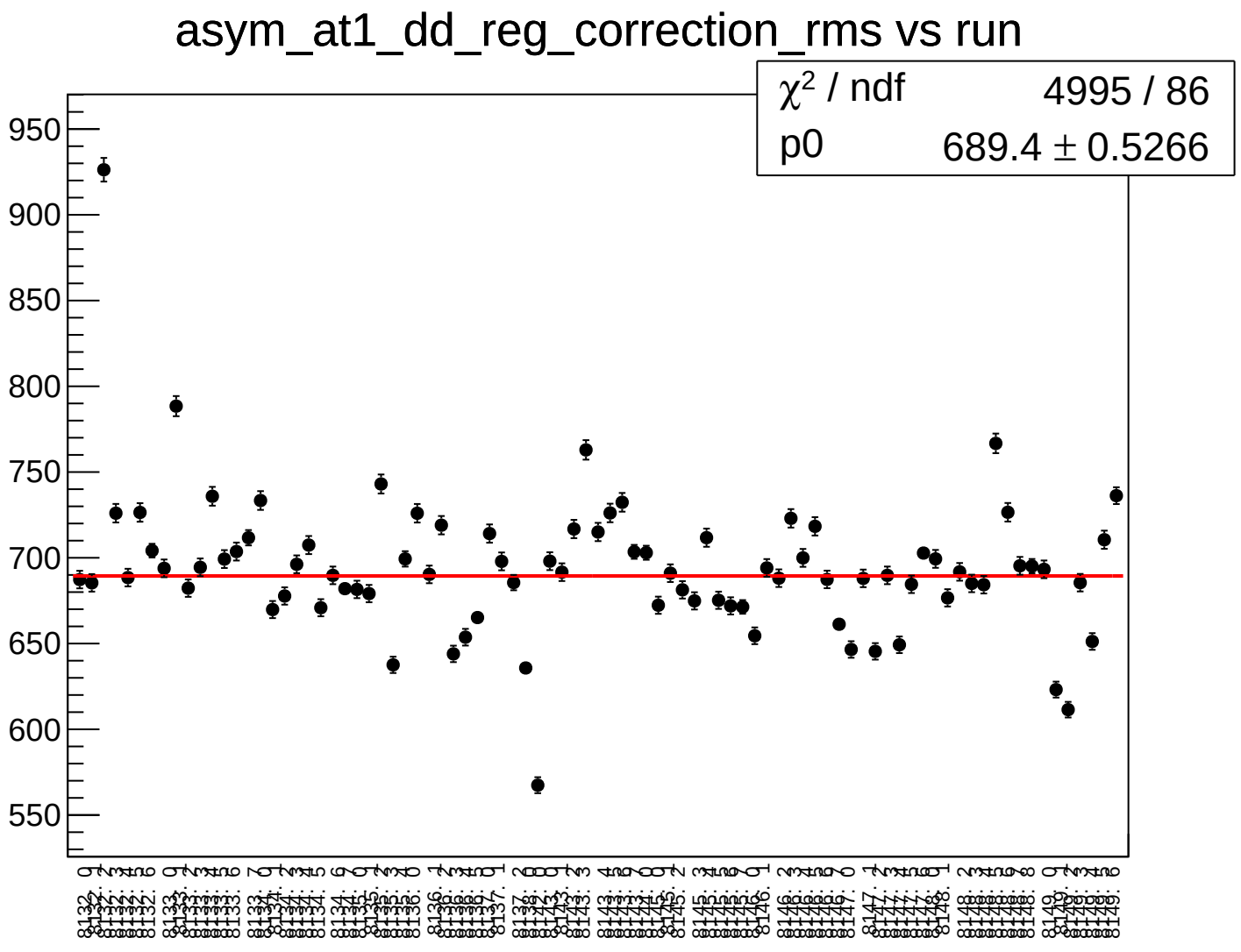

reg_asym_at1_dd_mean vs run
χ² / ndf 86.83 / 86
p0 593 ± 1975
pull
Entries 87
Mean 652.4
Std Dev 0

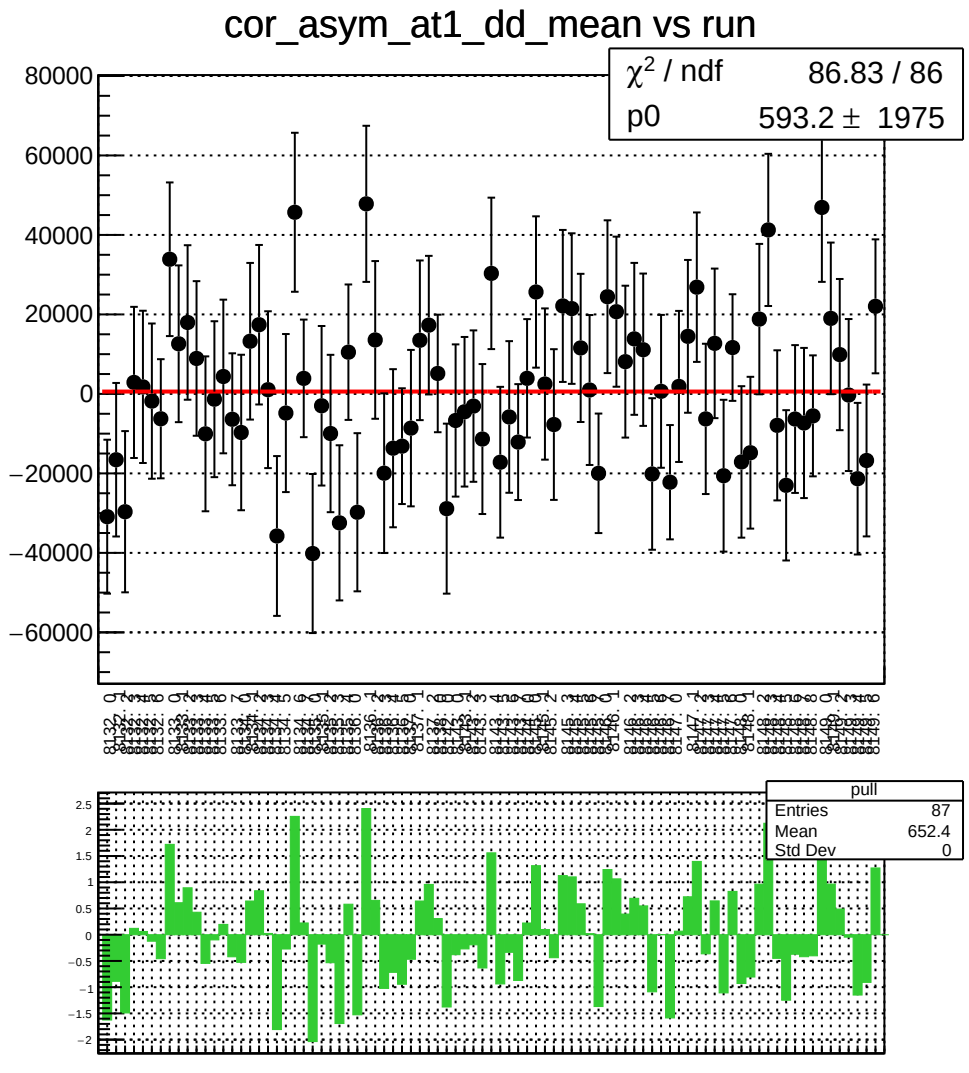

pull1D
Entries 87
Mean 0.005002
Std Dev 0.999

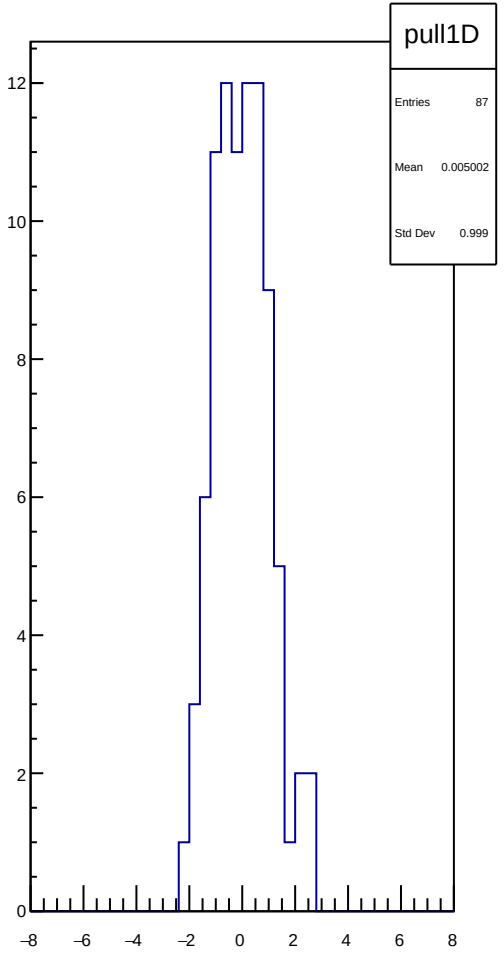

reg_asym_at1_dd_rms vs run
χ² / ndf 803.1 / 86
p0 1831 ± 1.397
1950
1900
1850
1800
1750

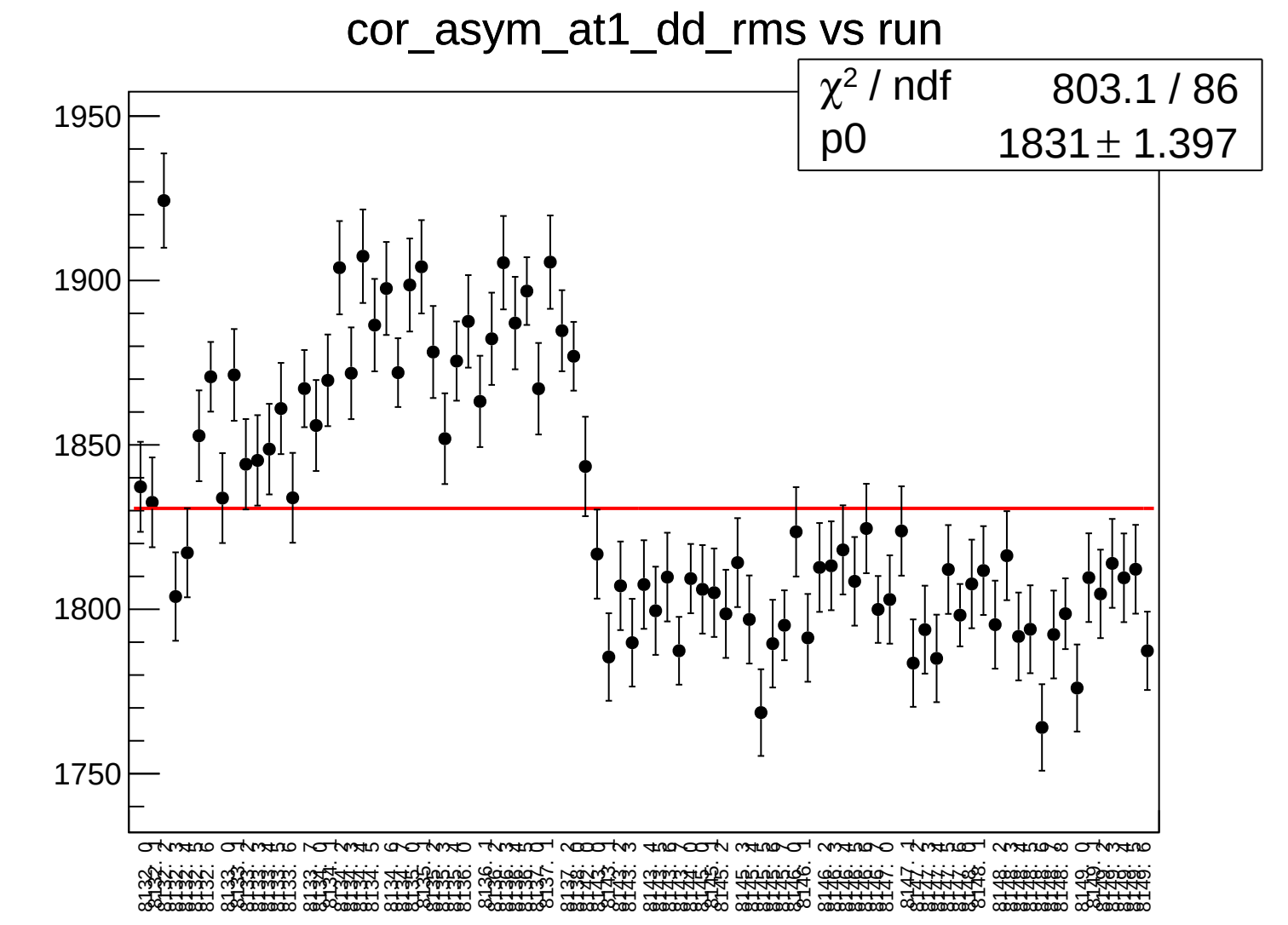

asym_at1_dd_reg_correction_mean vs run
χ² / ndf 98.19 / 86
p0 518.1 ± 744.7
30000
20000
10000
0
−10000
−20000
pull
Entries 87
Mean −337.2
Std Dev 0
2
1
0
−1
−2
−3

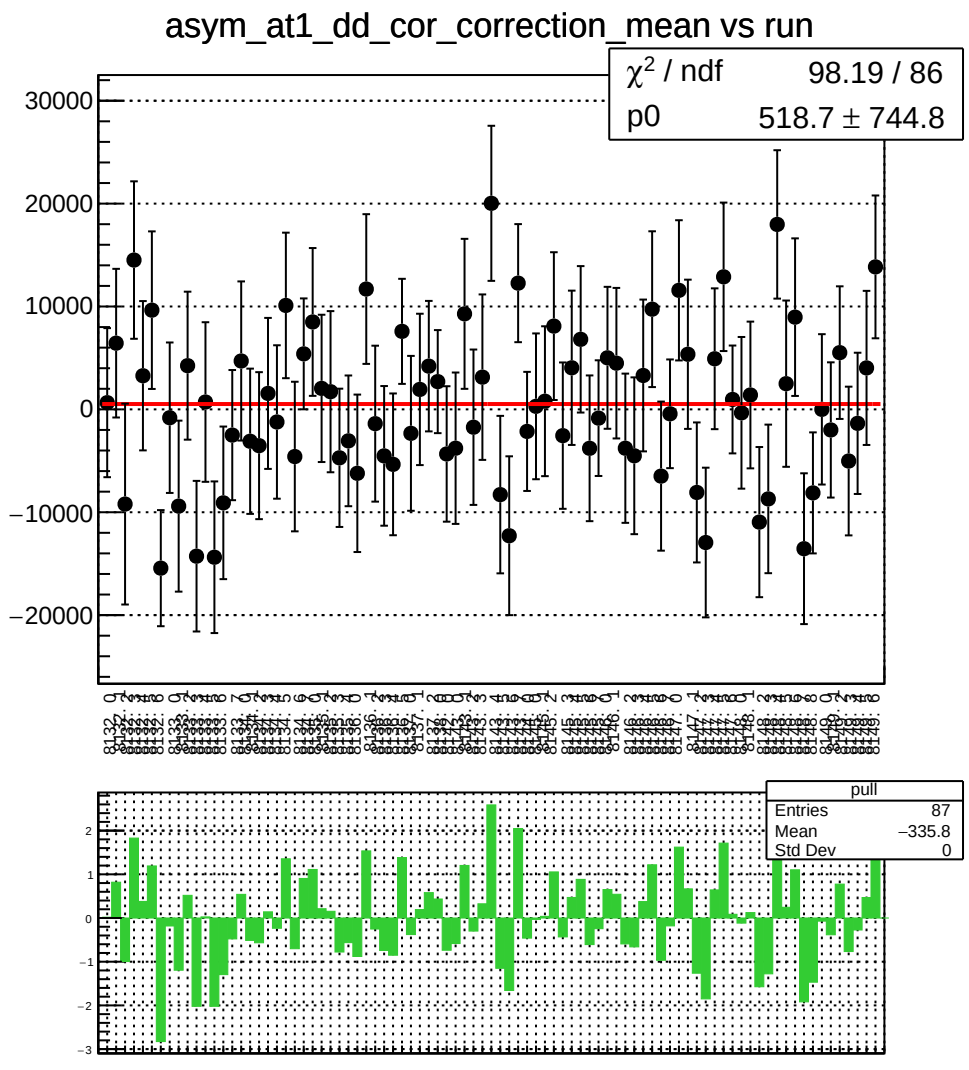

pull1D
Entries 87
Mean −0.005997
Std Dev 1.062
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

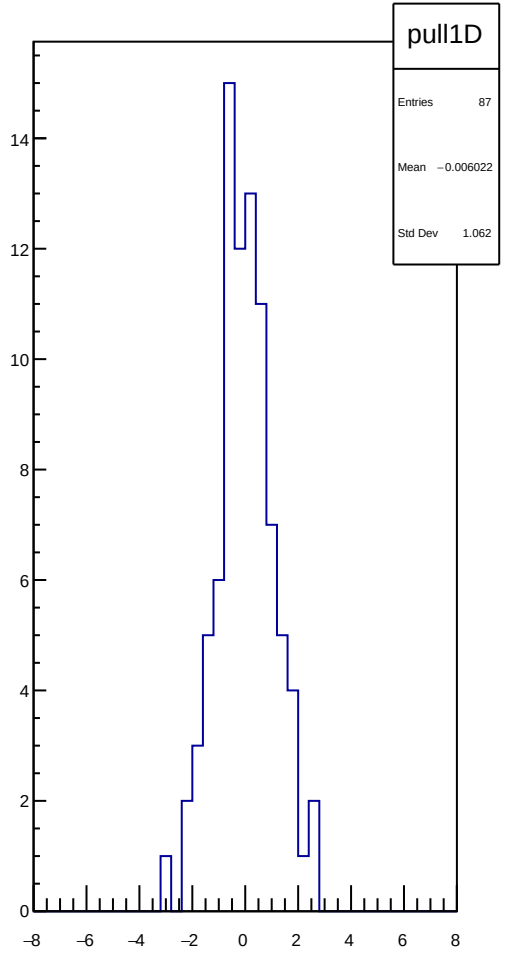

asym_at1_dd_reg_correction_rms vs run
χ² / ndf 4995 / 86
p0 689.4 ± 0.5266
950
900
850
800
750
700
650
600
550

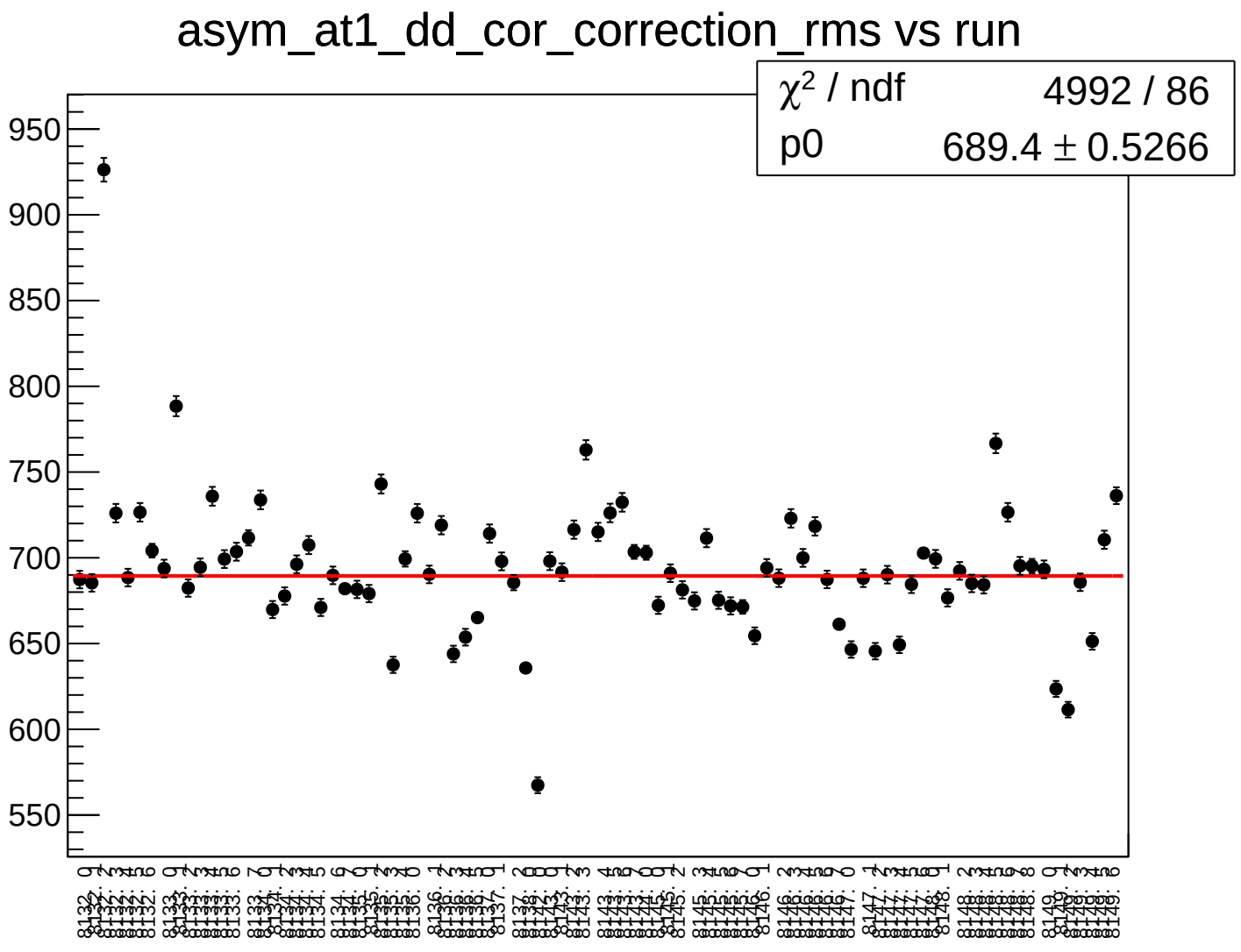

cor_asym_at1_dd_mean vs run
χ² / ndf 86.83 / 86
p0 593.2 ± 1975
pull
Entries 87
Mean 652.4
Std Dev 0

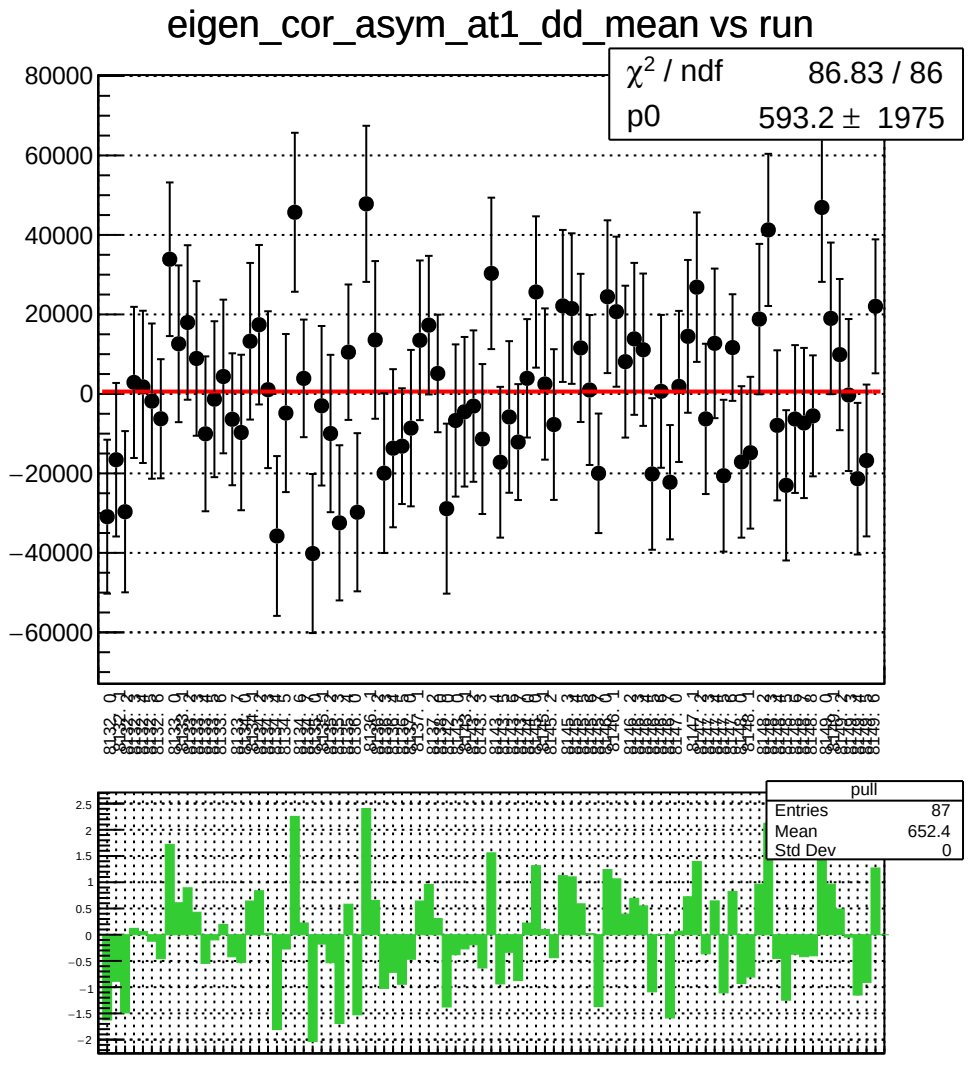

pull1D
Entries 87
Mean 0.005002
Std Dev 0.999

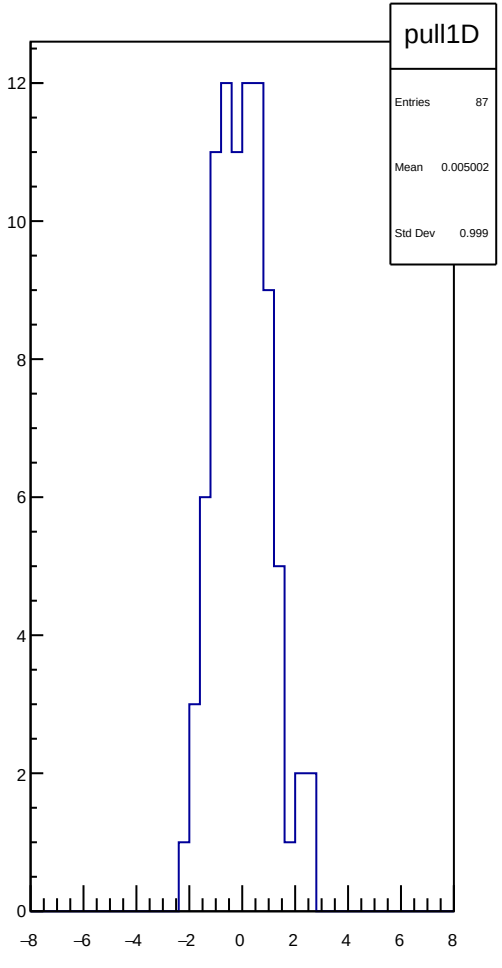

cor_asym_at1_dd_rms vs run
χ² / ndf 803.1 / 86
p0 1831 ± 1.397
1950
1900
1850
1800
1750

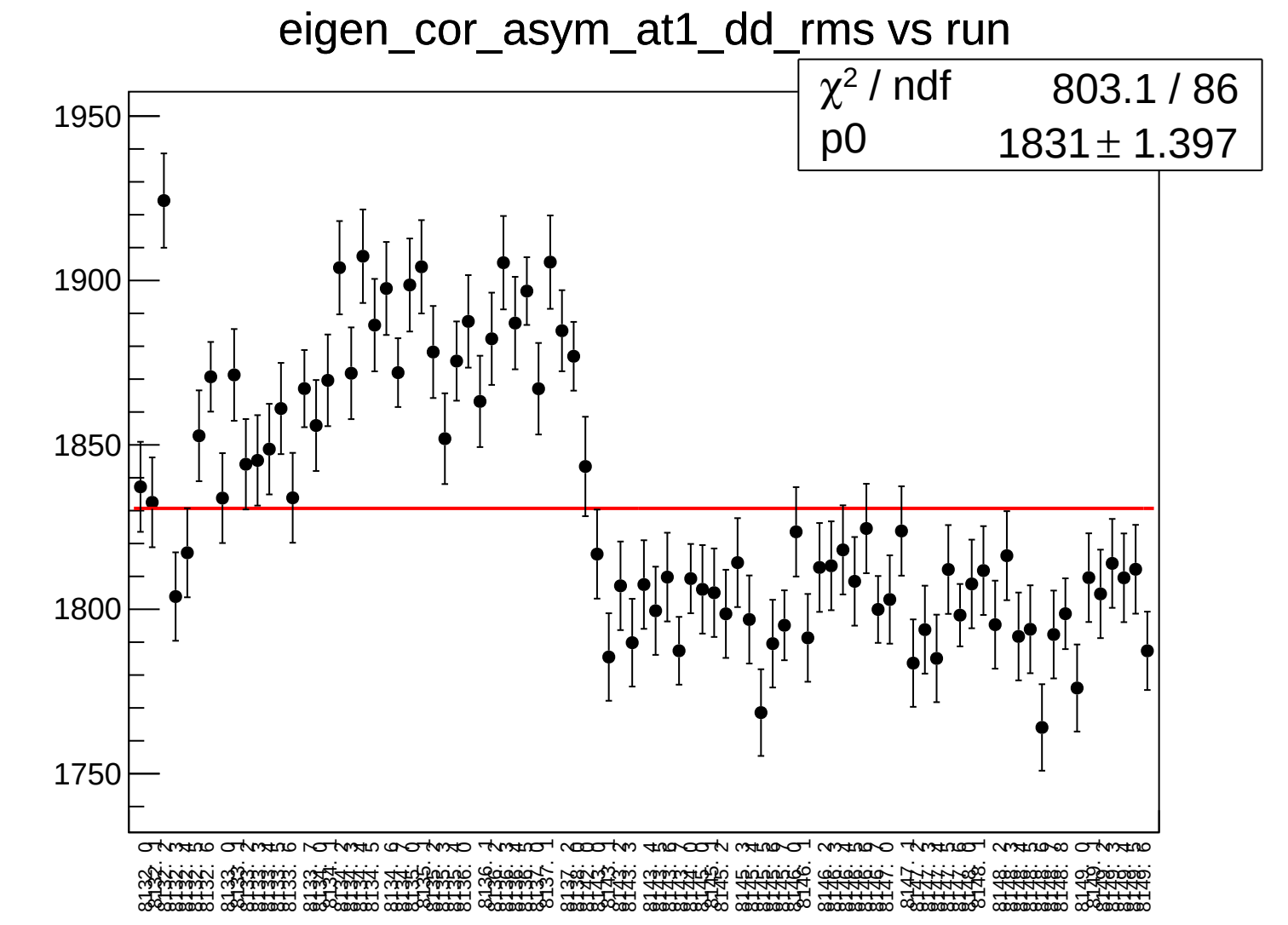

asym_at1_dd_cor_correction_mean vs run
χ² / ndf 98.19 / 86
p0 518.7 ± 744.8
30000
20000
10000
0
−10000
−20000
pull
Entries 87
Mean −335.8
Std Dev 0
2
1
0
−1
−2
−3

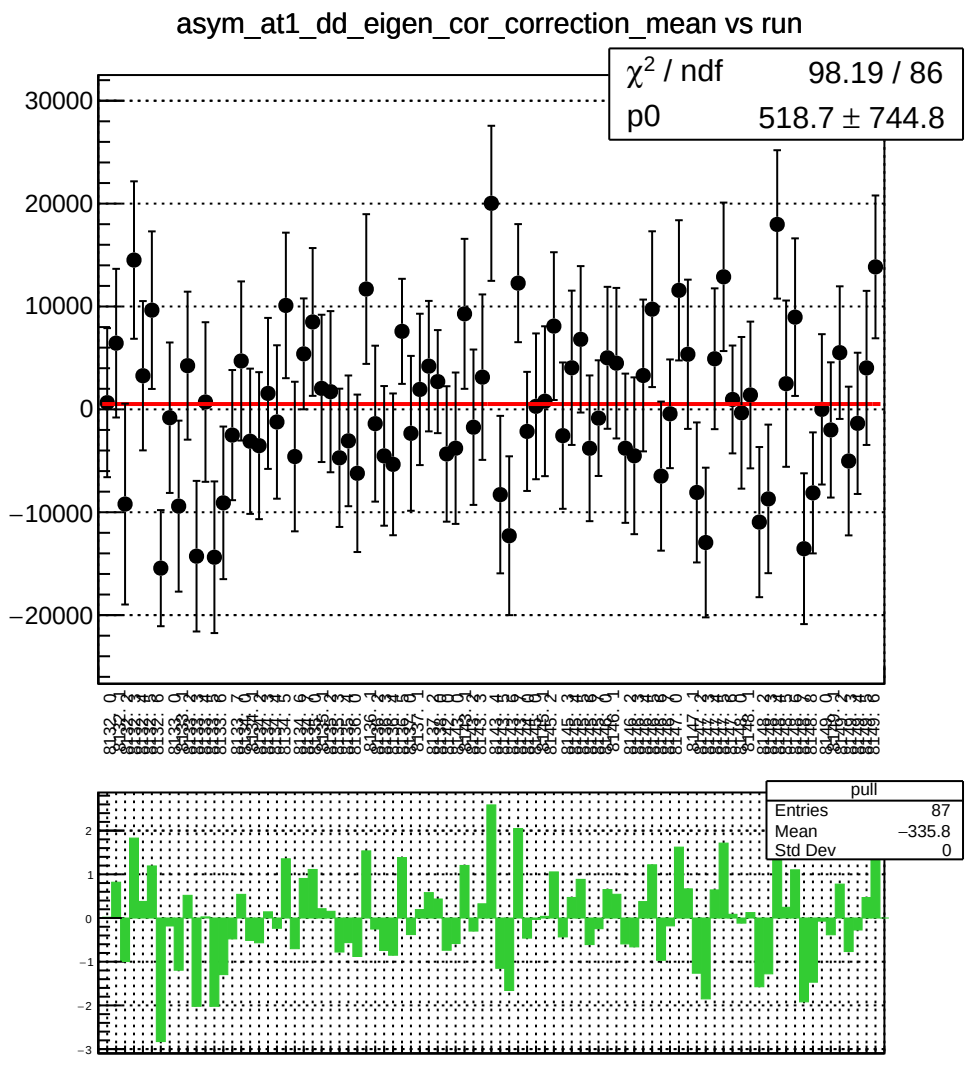

pull1D
Entries 87
Mean −0.006022
Std Dev 1.062
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

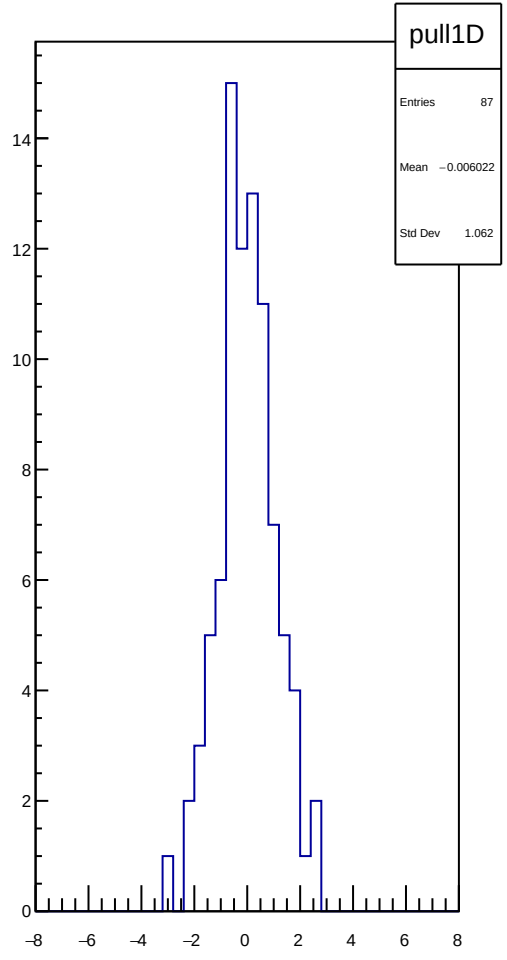

asym_at1_dd_cor_correction_rms vs run
χ² / ndf 4992 / 86
p0 689.4 ± 0.5266
950
900
850
800
750
700
650
600
550

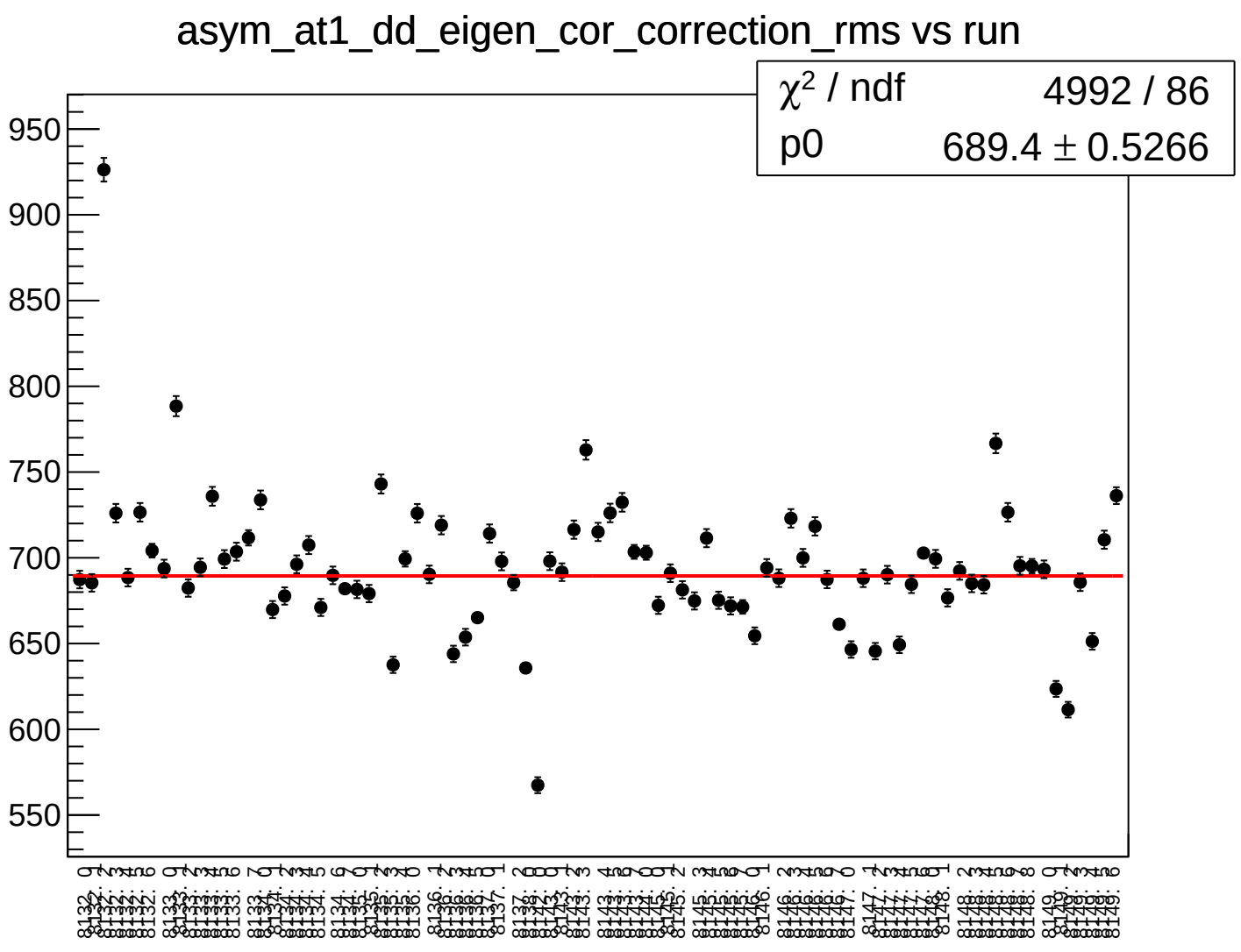

eigen_cor_asym_at1_dd_mean vs run
χ² / ndf 86.83 / 86
p0 593.2 ± 1975
pull
Entries 87
Mean 652.4
Std Dev 0

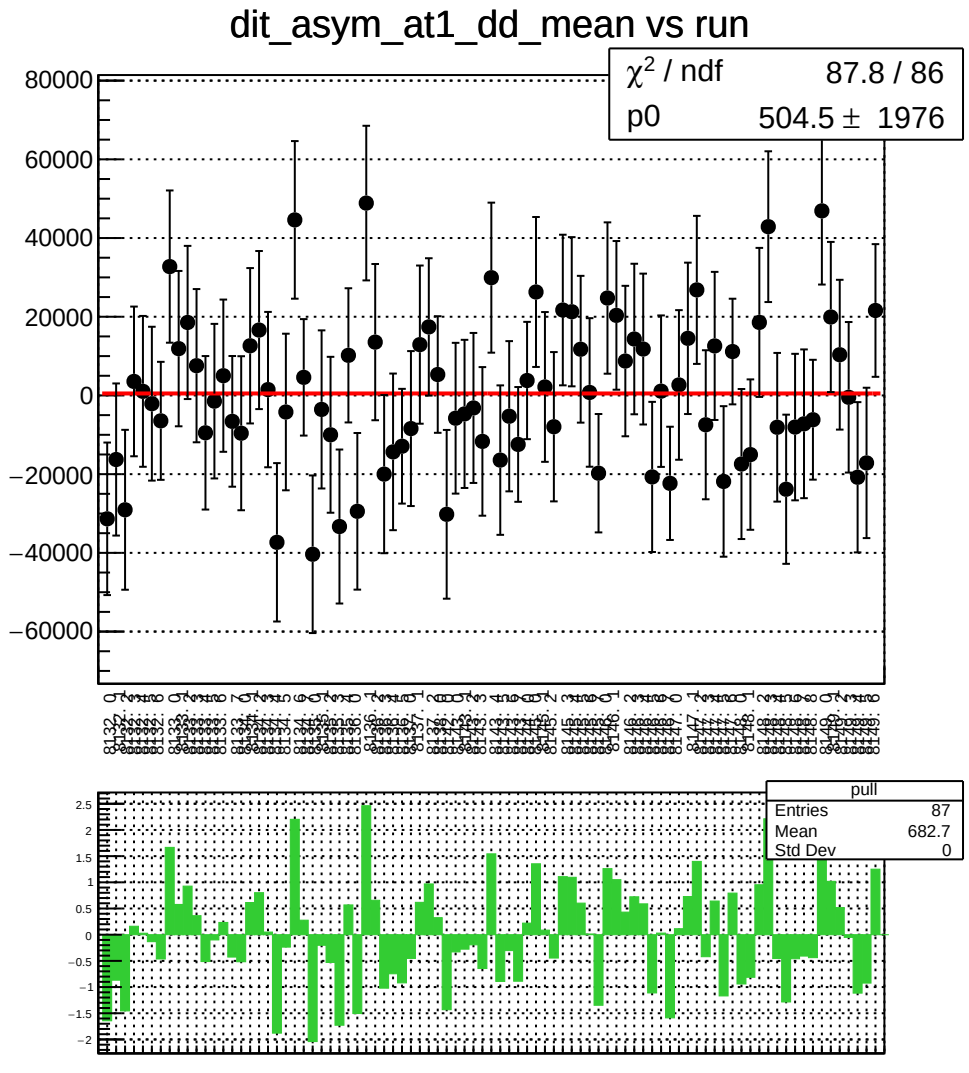

pull1D
Entries 87
Mean 0.005002
Std Dev 0.999

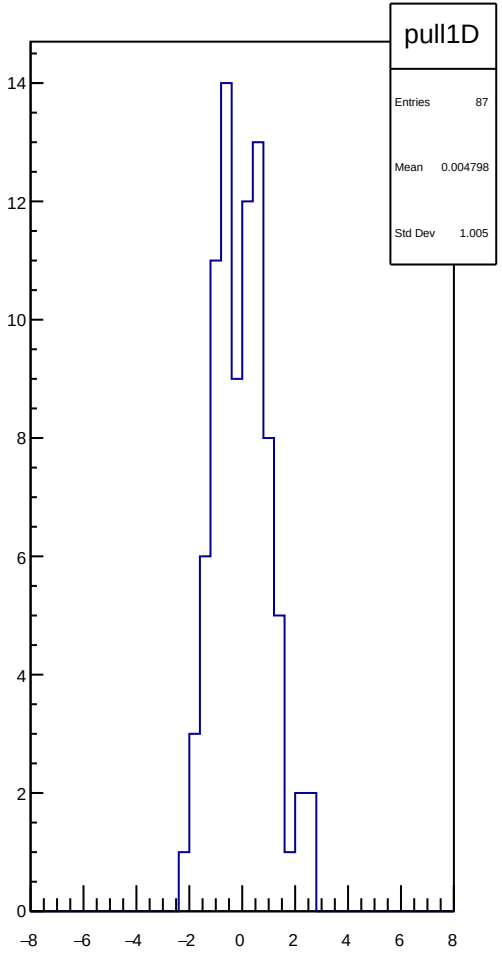

eigen_cor_asym_at1_dd_rms vs run
χ² / ndf 803.1 / 86
p0 1831 ± 1.397
1950
1900
1850
1800
1750

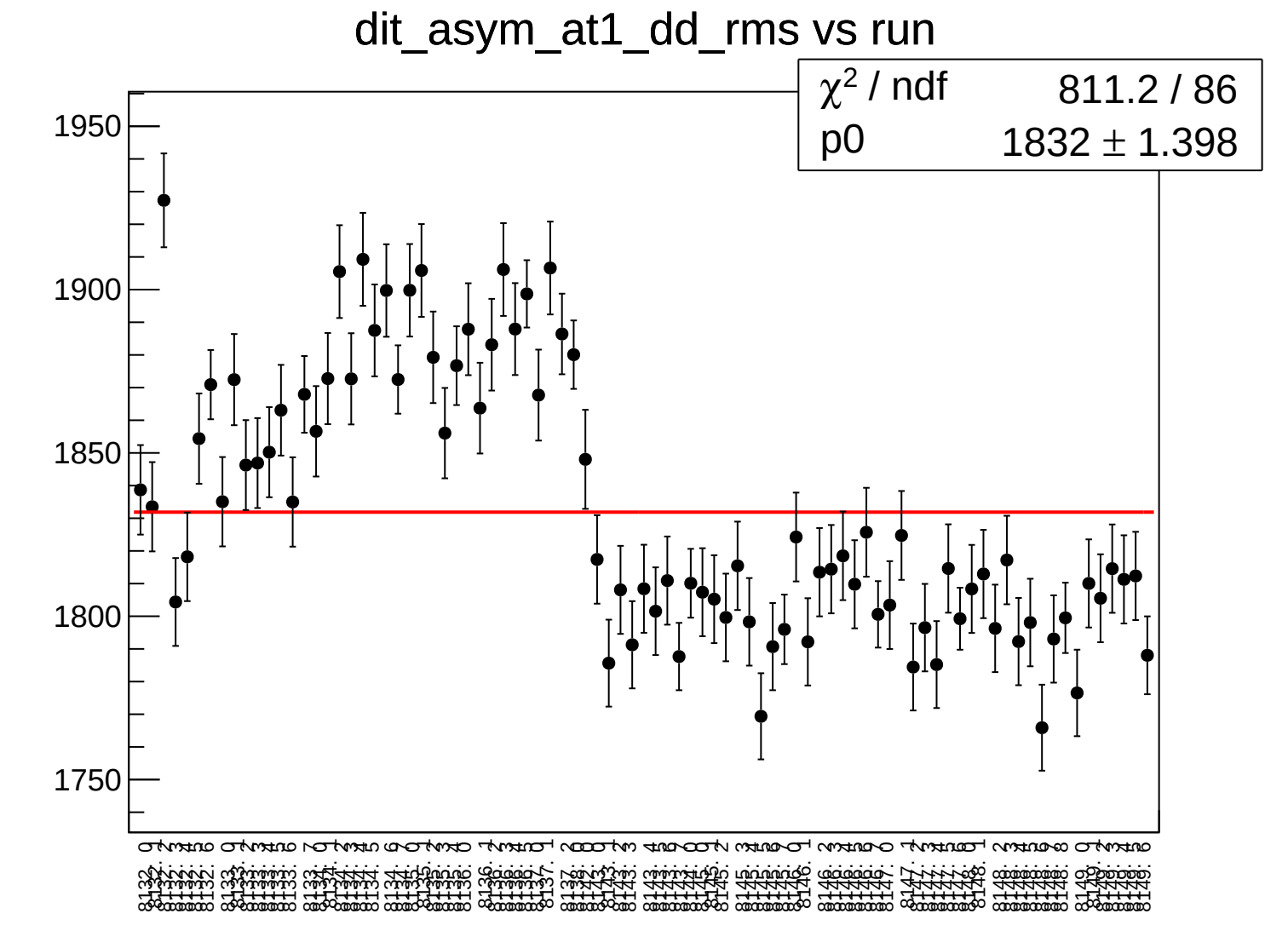

asym_at1_dd_eigen_cor_correction_mean vs run
χ² / ndf 98.19 / 86
p0 518.7 ± 744.8
30000
20000
10000
0
−10000
−20000
pull
Entries 87
Mean −335.8
Std Dev 0
2
1
0
−1
−2
−3

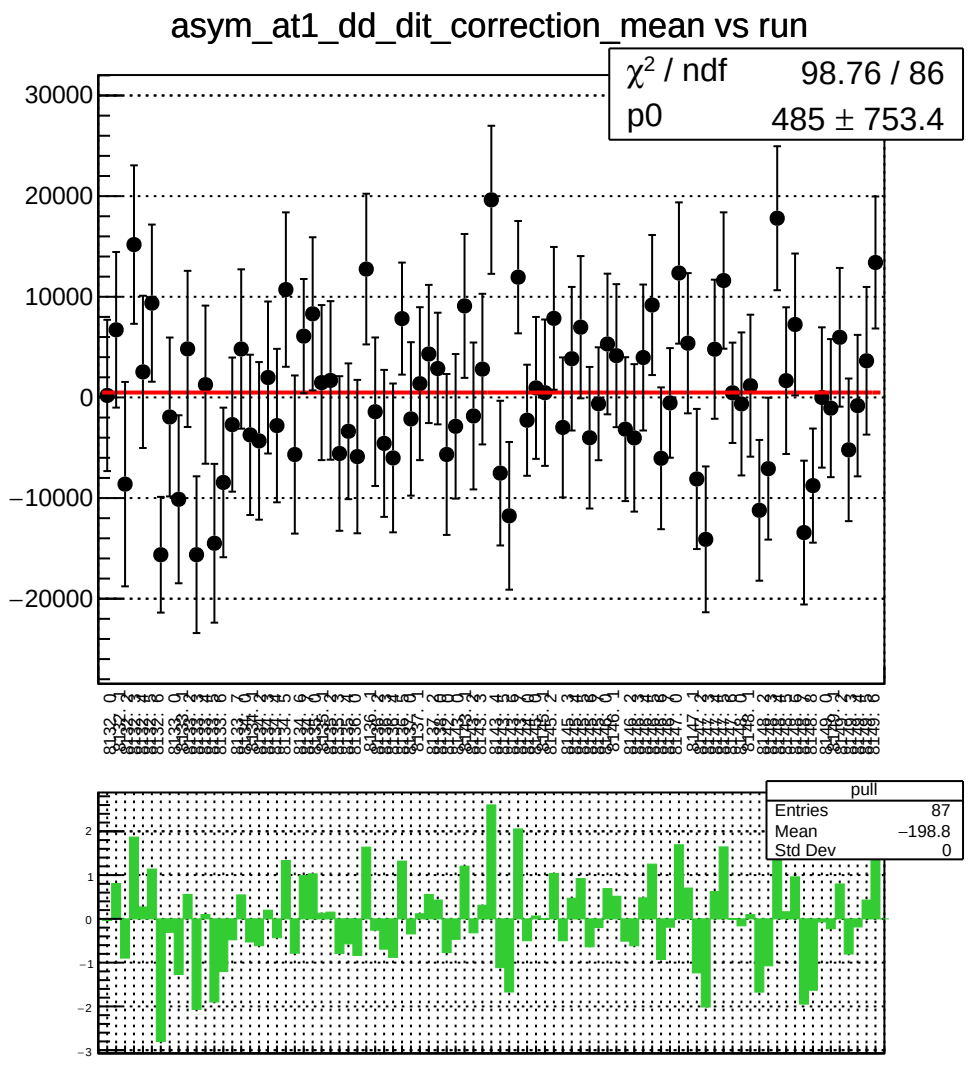

pull1D
Entries 87
Mean −0.006022
Std Dev 1.062
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

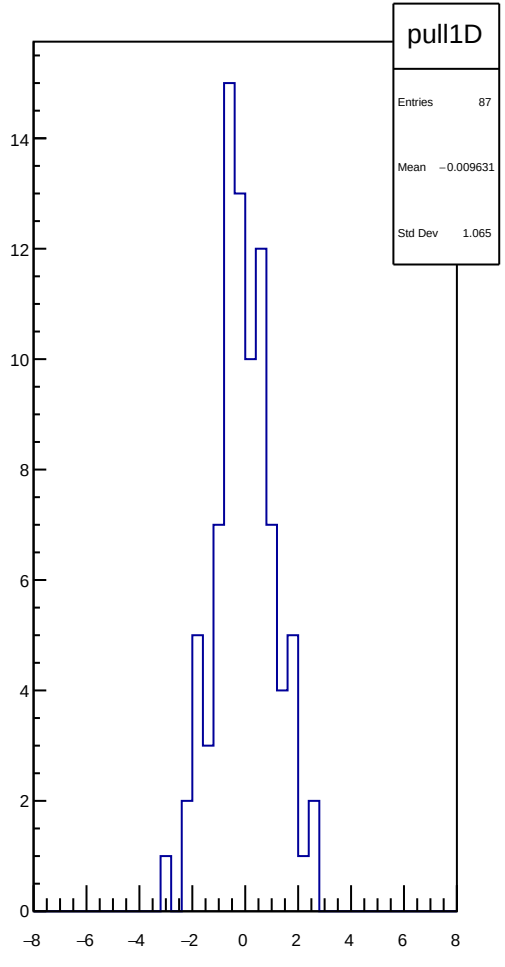

asym_at1_dd_eigen_cor_correction_rms vs run
χ² / ndf 4992 / 86
p0 689.4 ± 0.5266
950
900
850
800
750
700
650
600
550


dit_asym_at1_dd_mean vs run
χ² / ndf 87.8 / 86
p0 504.5 ± 1976
pull
Entries 87
Mean 682.7
Std Dev 0

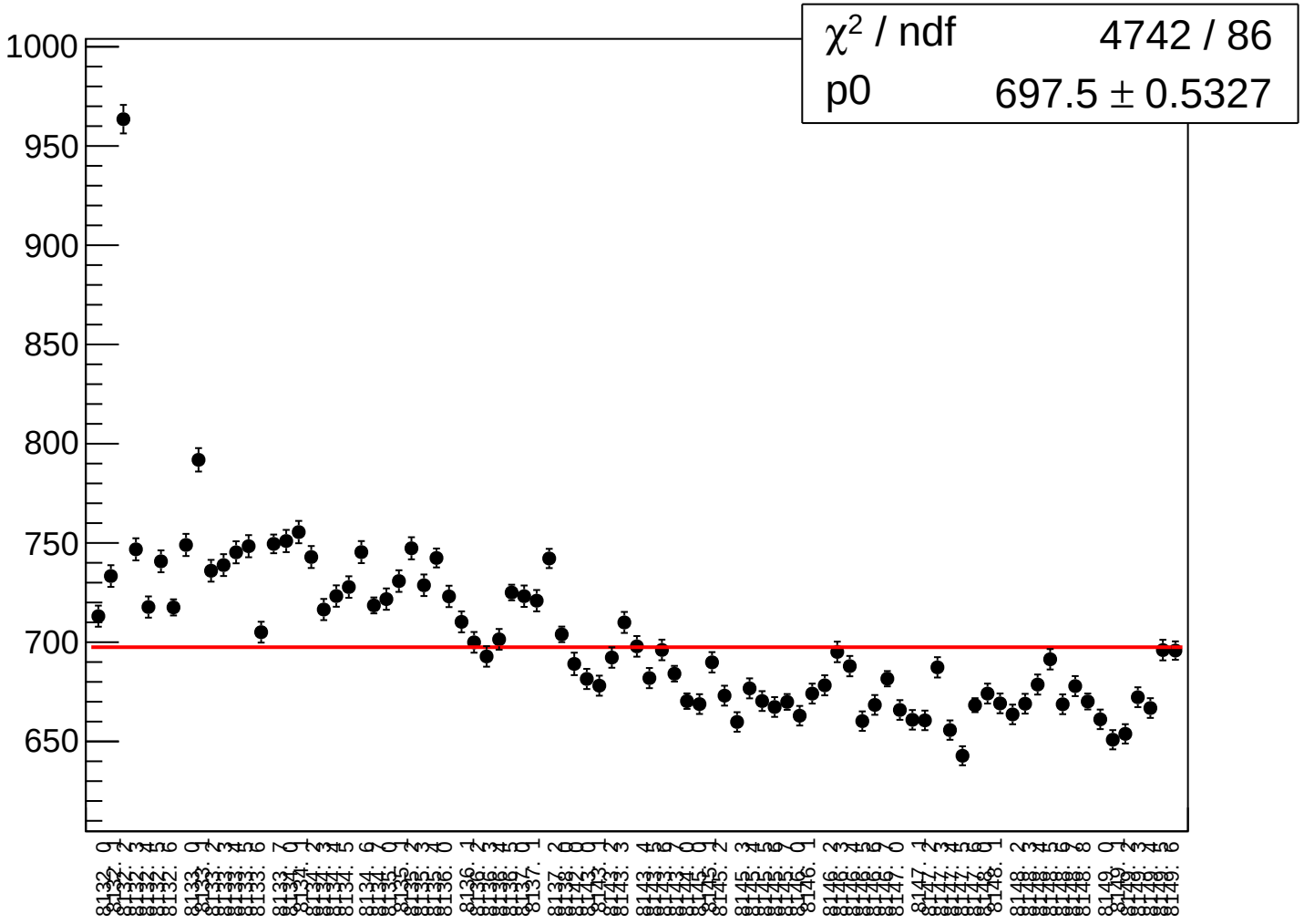

pull1D
Entries 87
Mean 0.004798
Std Dev 1.005

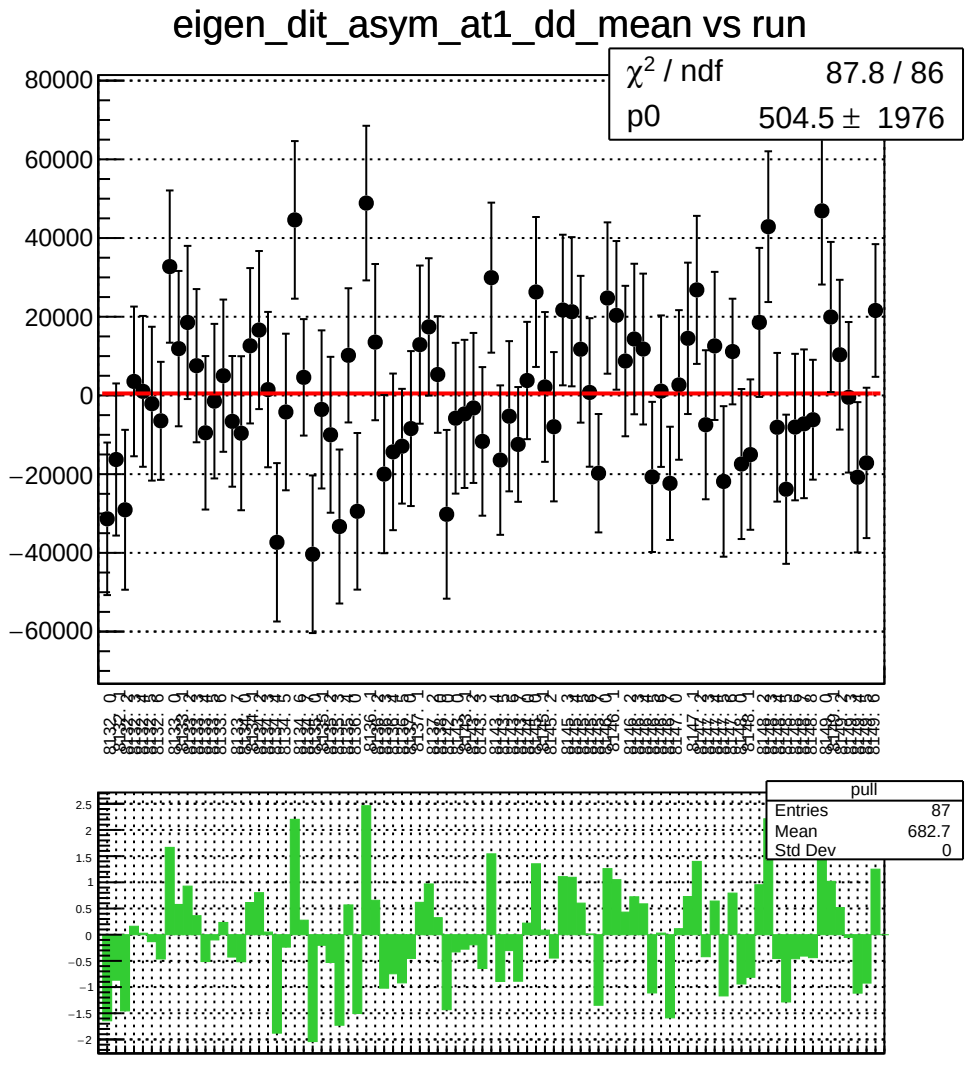

dit_asym_at1_dd_rms vs run
χ^2 / ndf 811.2 / 86
p0 1832 ± 1.398
1950
1900
1850
1800
1750

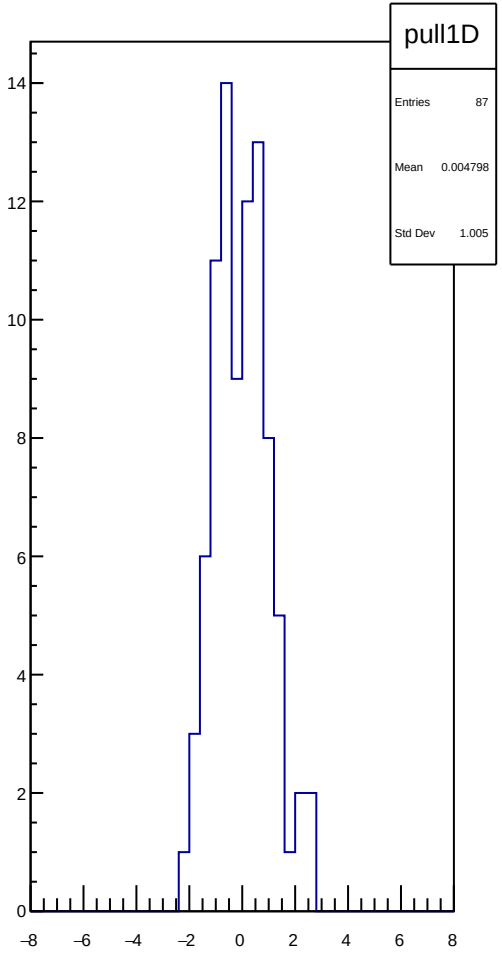

asym_at1_dd_dit_correction_mean vs run
χ² / ndf 98.76 / 86
p0 485 ± 753.4
30000
20000
10000
0
−10000
−20000
pull
Entries 87
Mean −198.8
Std Dev 0
2
1
0
−1
−2
−3

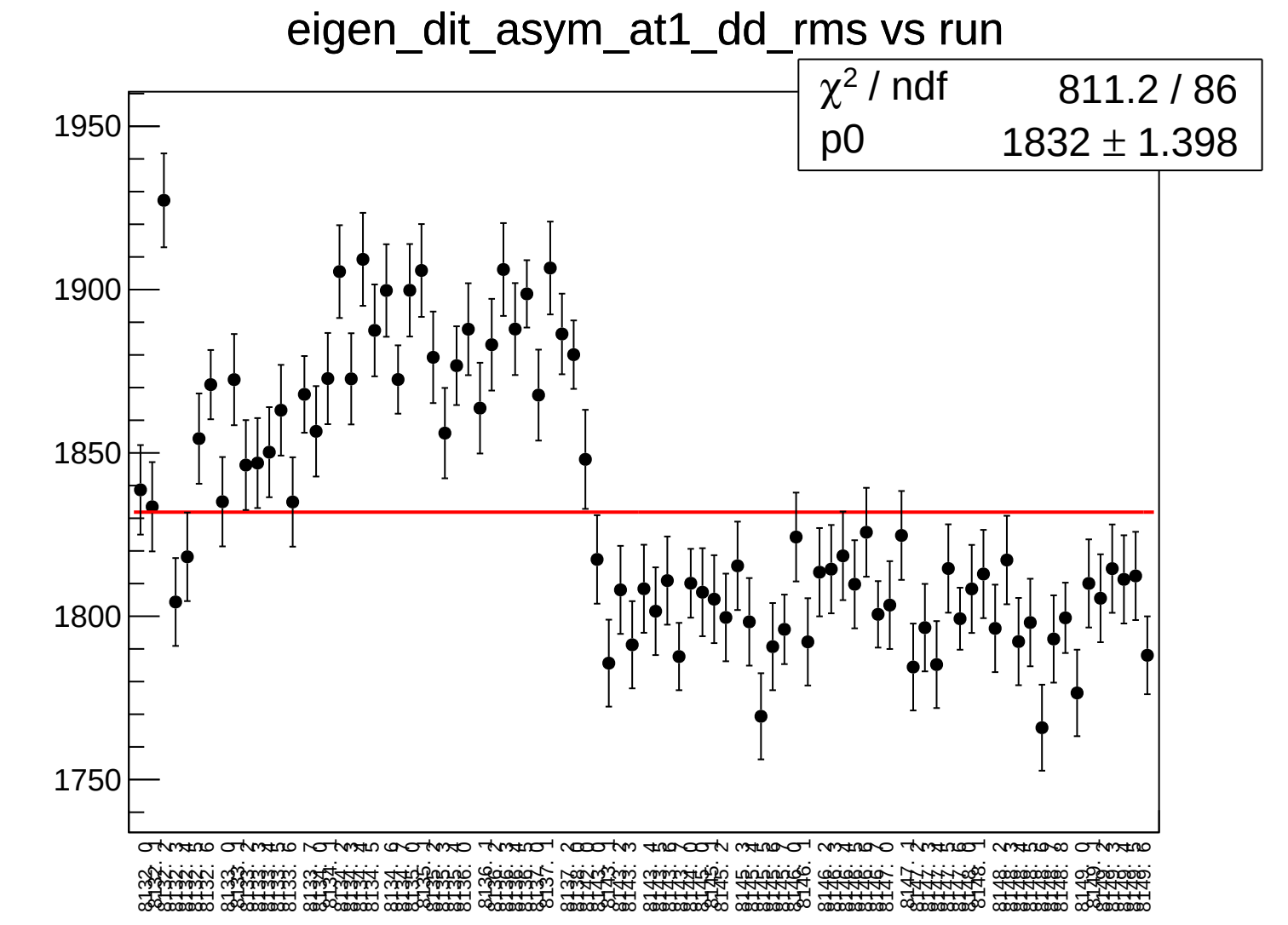

pull1D
Entries 87
Mean −0.009631
Std Dev 1.065
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

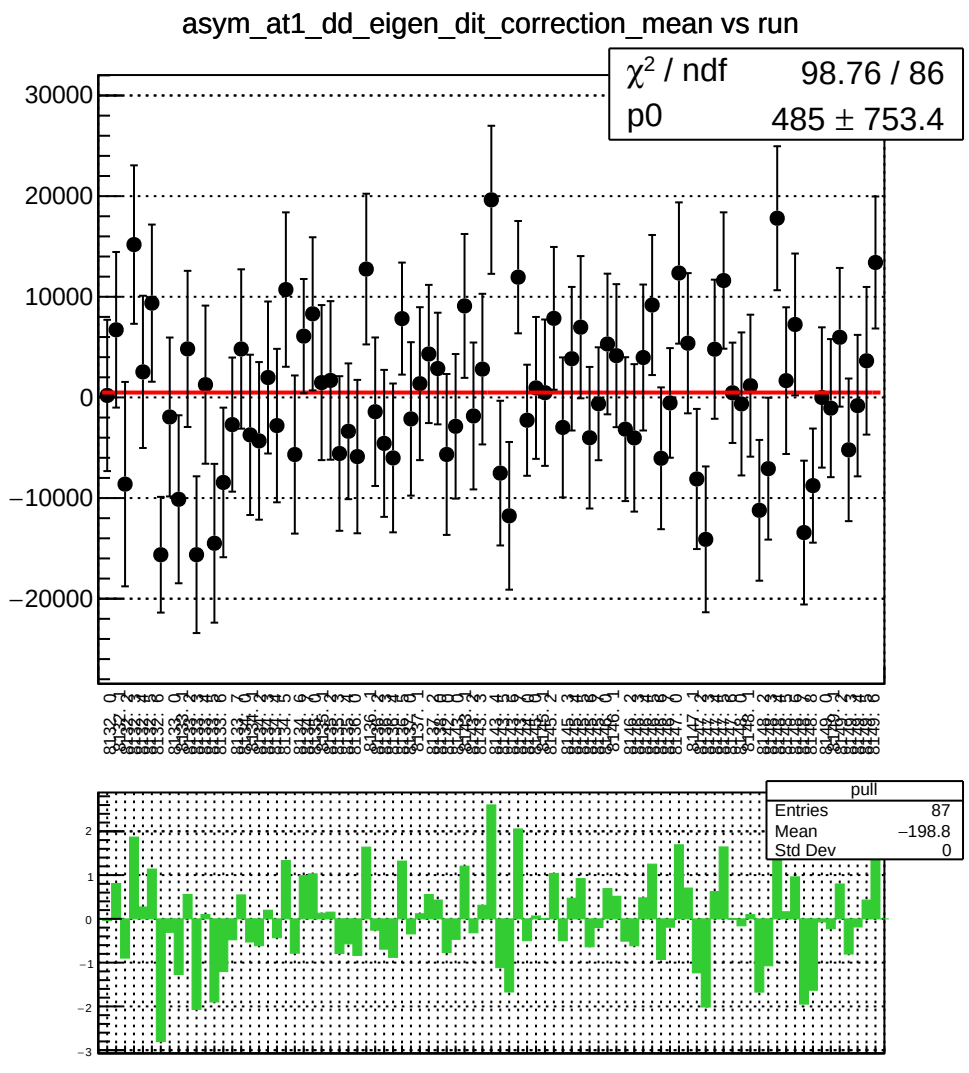
asym_at1_dd_dit_correction_rms vs run

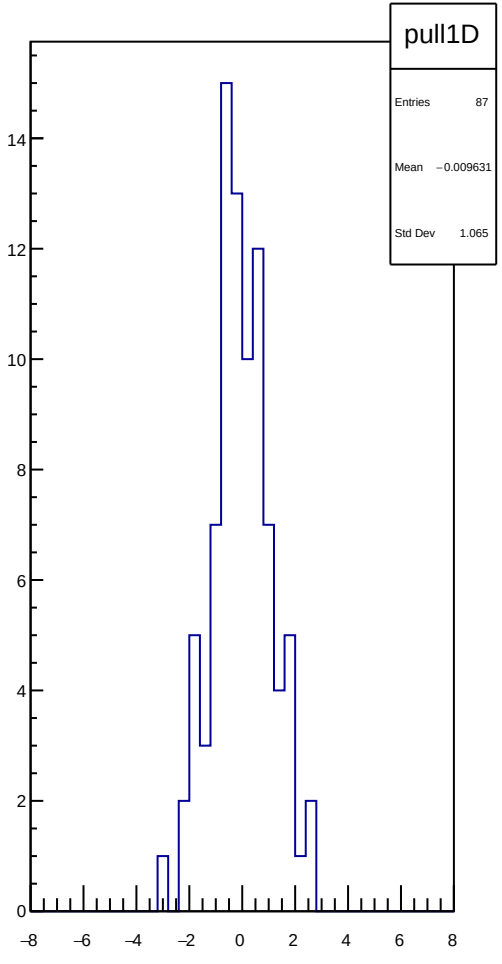


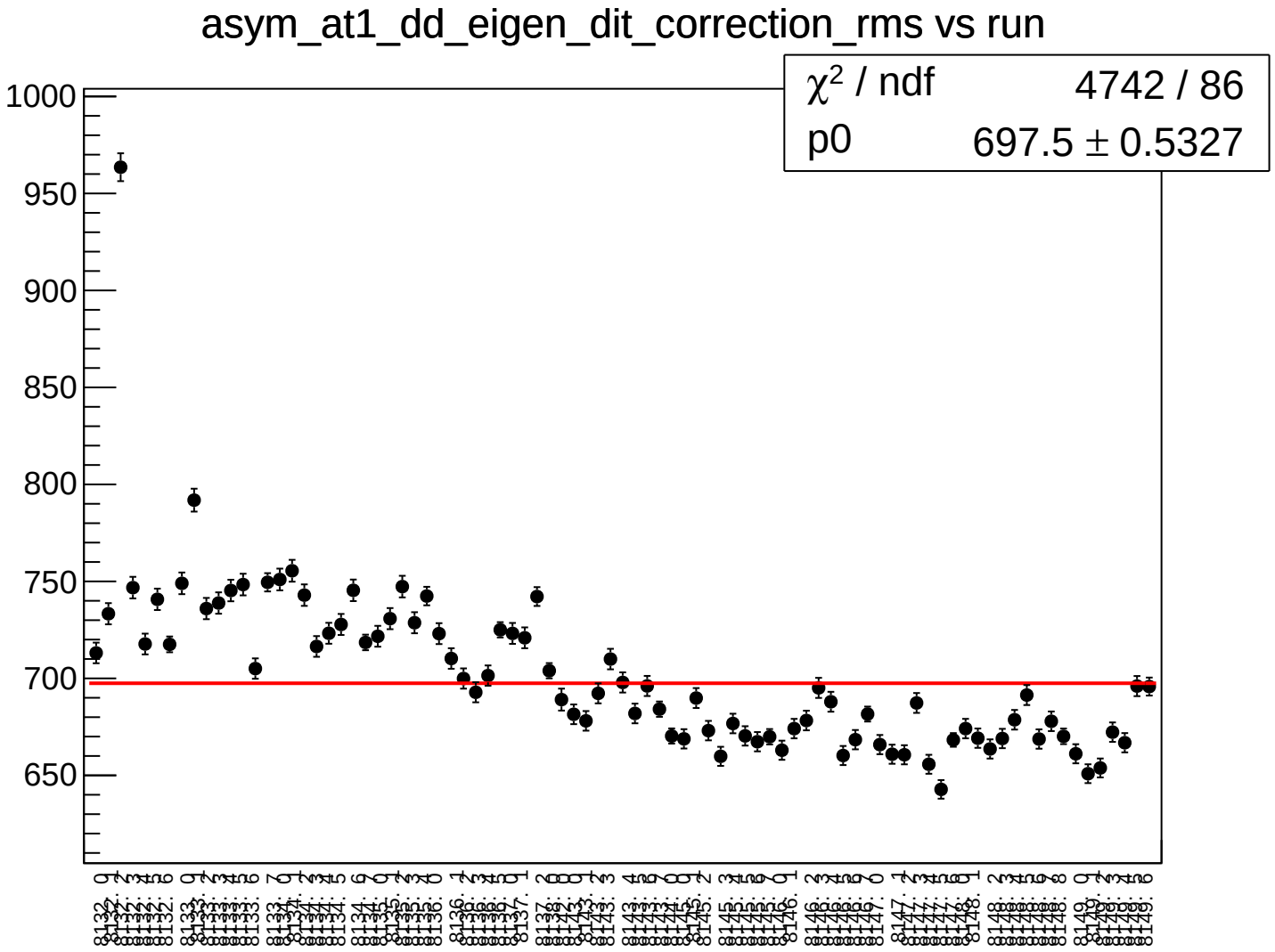

eigen_dit_asym_at1_dd_mean vs run
χ² / ndf 87.8 / 86
p0 504.5 ± 1976
pull
Entries 87
Mean 682.7
Std Dev 0

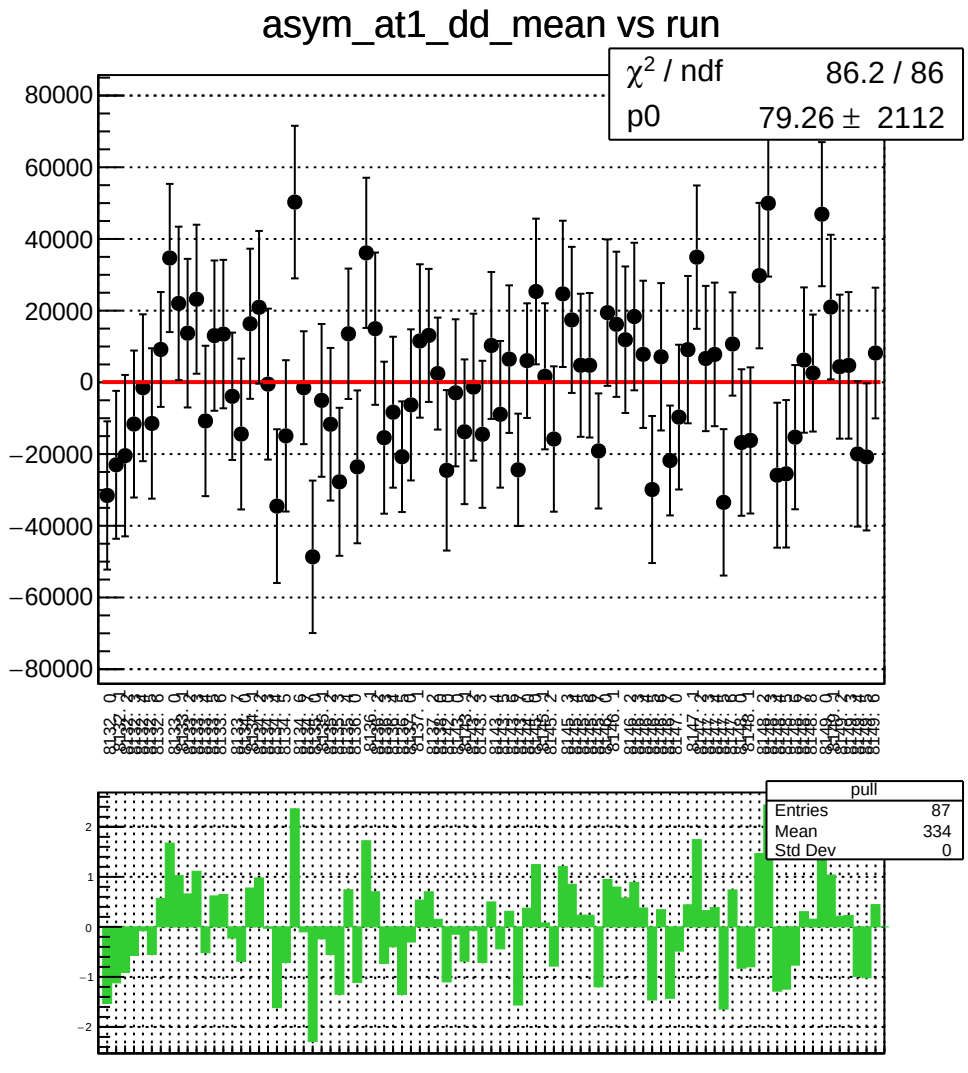

pull1D
Entries 87
Mean 0.004798
Std Dev 1.005

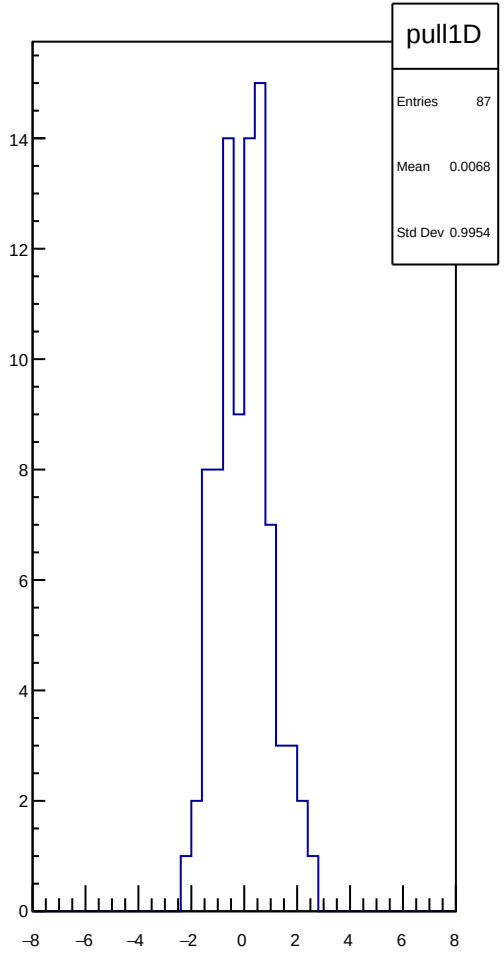

eigen_dit_asym_at1_dd_rms vs run
χ² / ndf 811.2 / 86
p0 1832 ± 1.398
1950
1900
1850
1800
1750

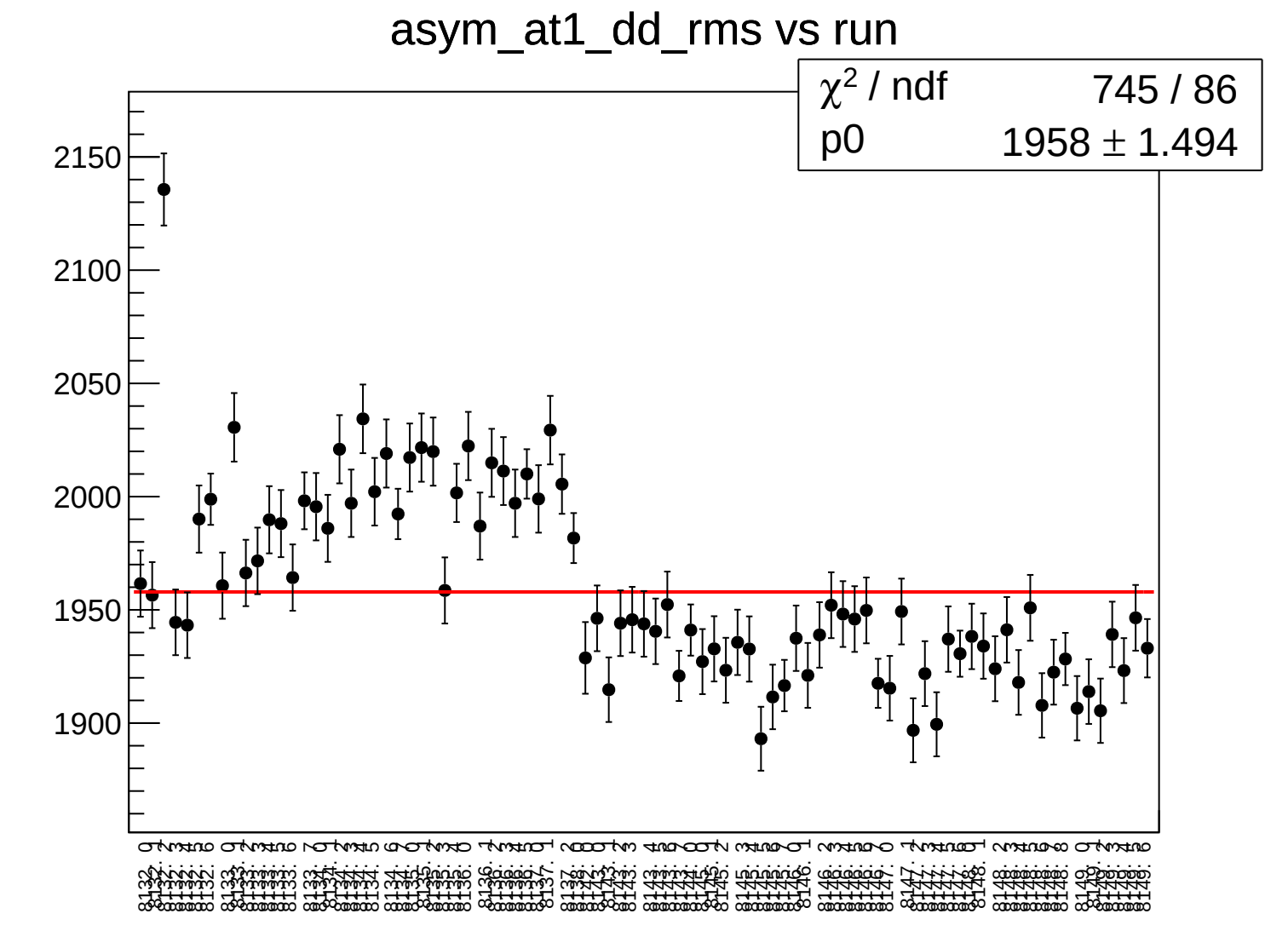

asym_at1_dd_eigen_dit_correction_mean vs run
χ² / ndf 98.76 / 86
p0 485 ± 753.4
30000
20000
10000
0
−10000
−20000
pull
Entries 87
Mean −198.8
Std Dev 0
2
1
0
−1
−2
−3

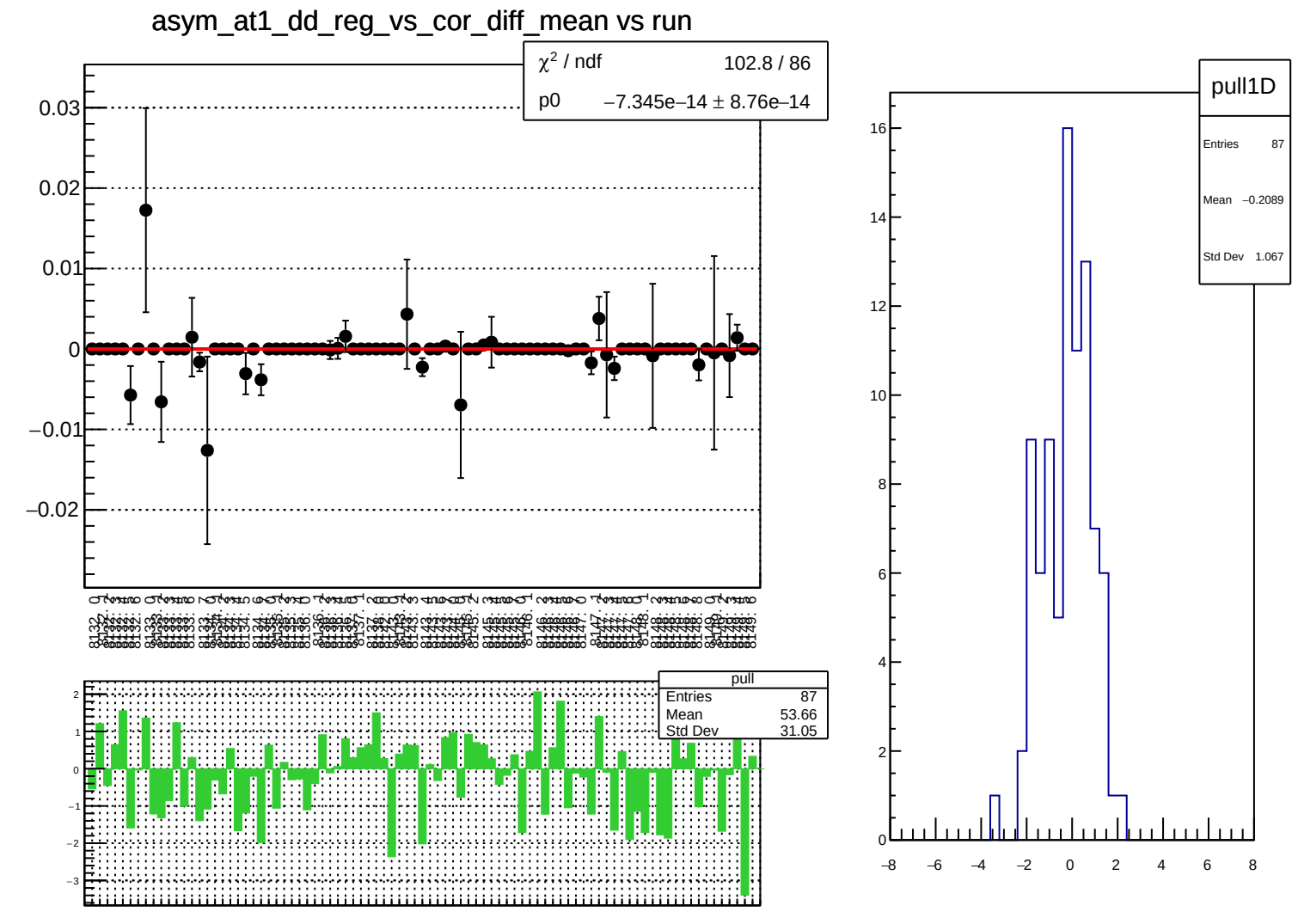

pull1D
Entries 87
Mean −0.009631
Std Dev 1.065
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

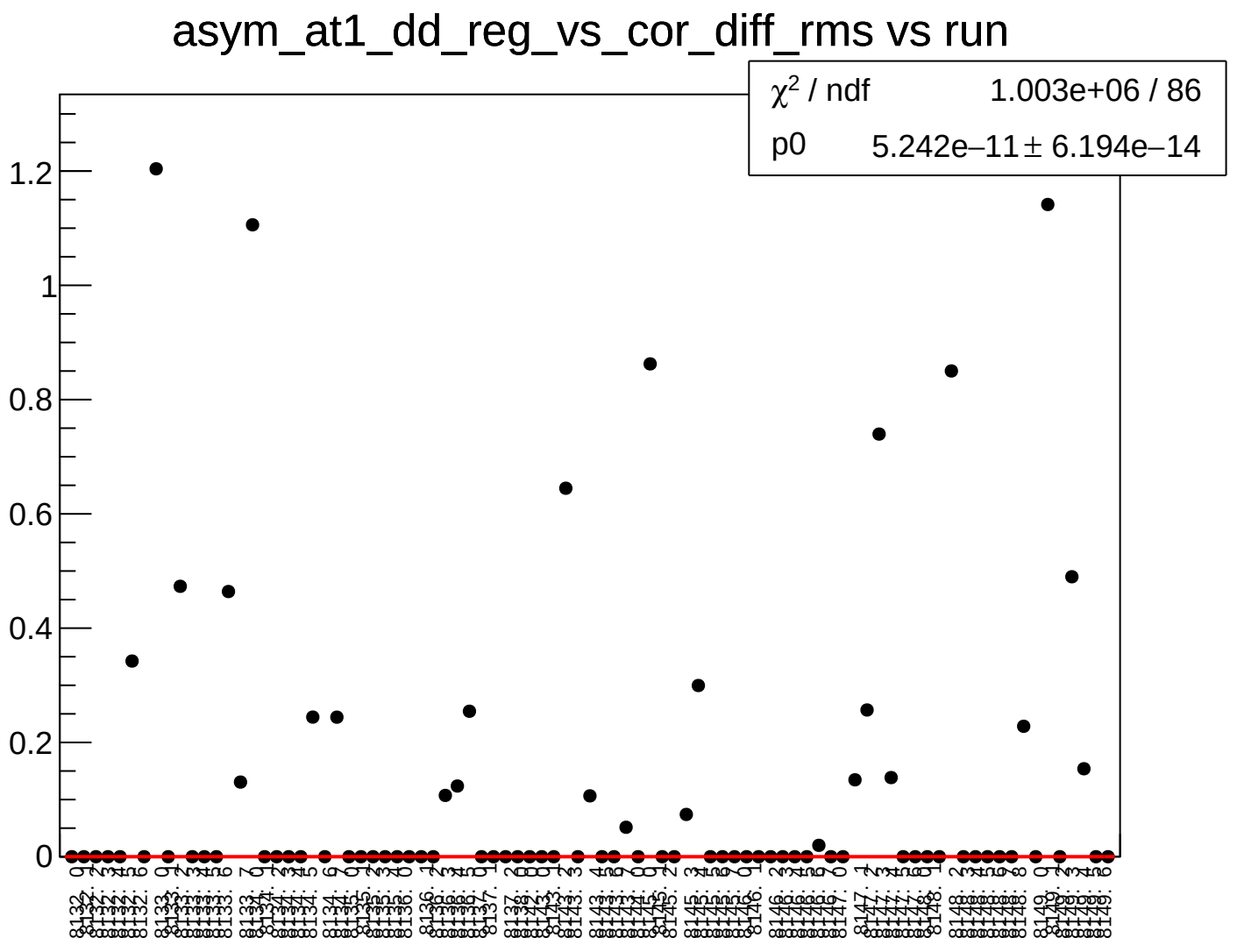

asym_at1_dd_eigen_dit_correction_rms vs run
χ² / ndf 4742 / 86
p0 697.5 ± 0.5327
1000
950
900
850
800
750
700
650

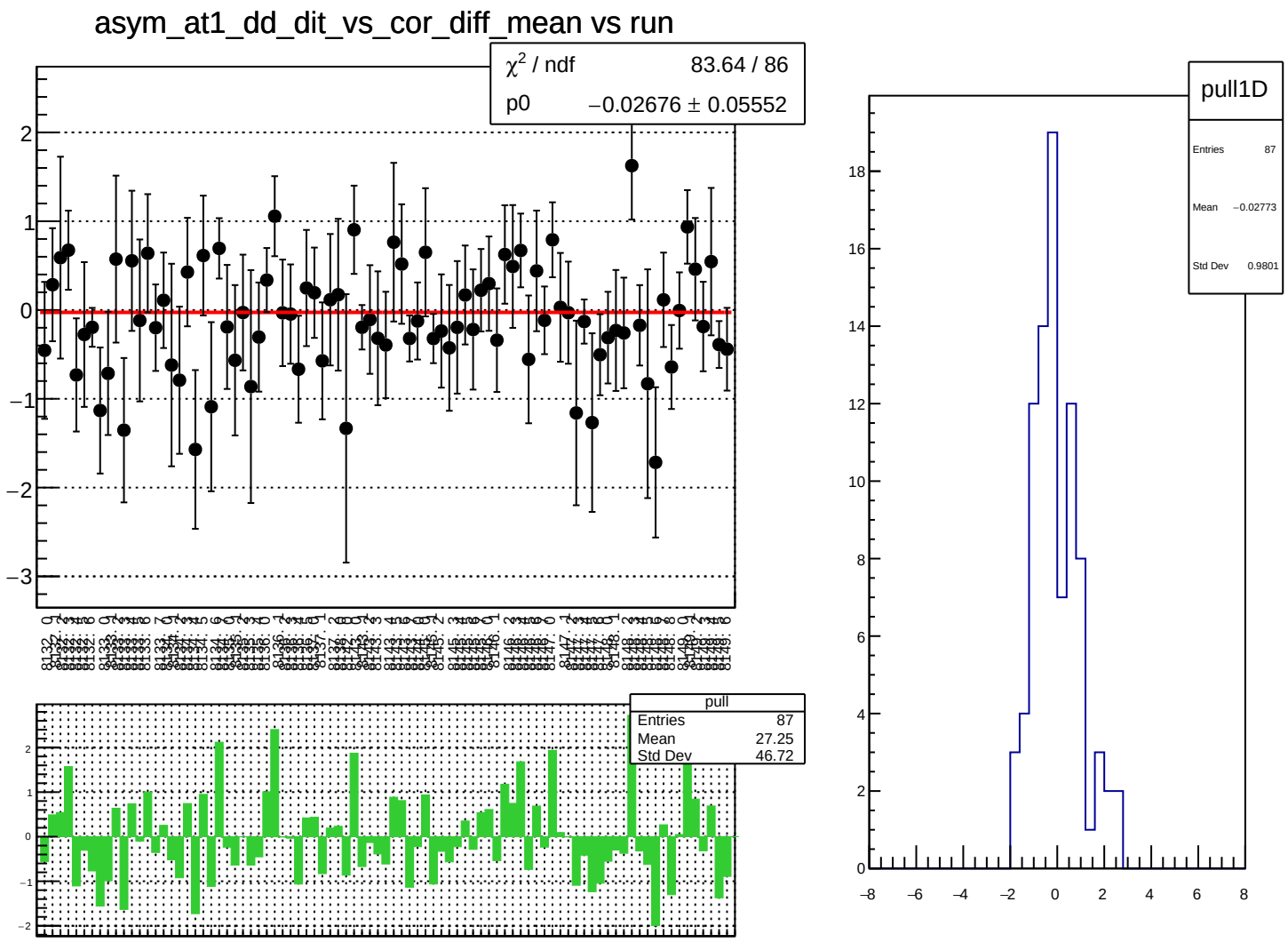

asym_at1_dd_mean vs run
χ² / ndf 86.2 / 86
p0 79.26 ± 2112
pull
Entries 87
Mean 334
Std Dev 0

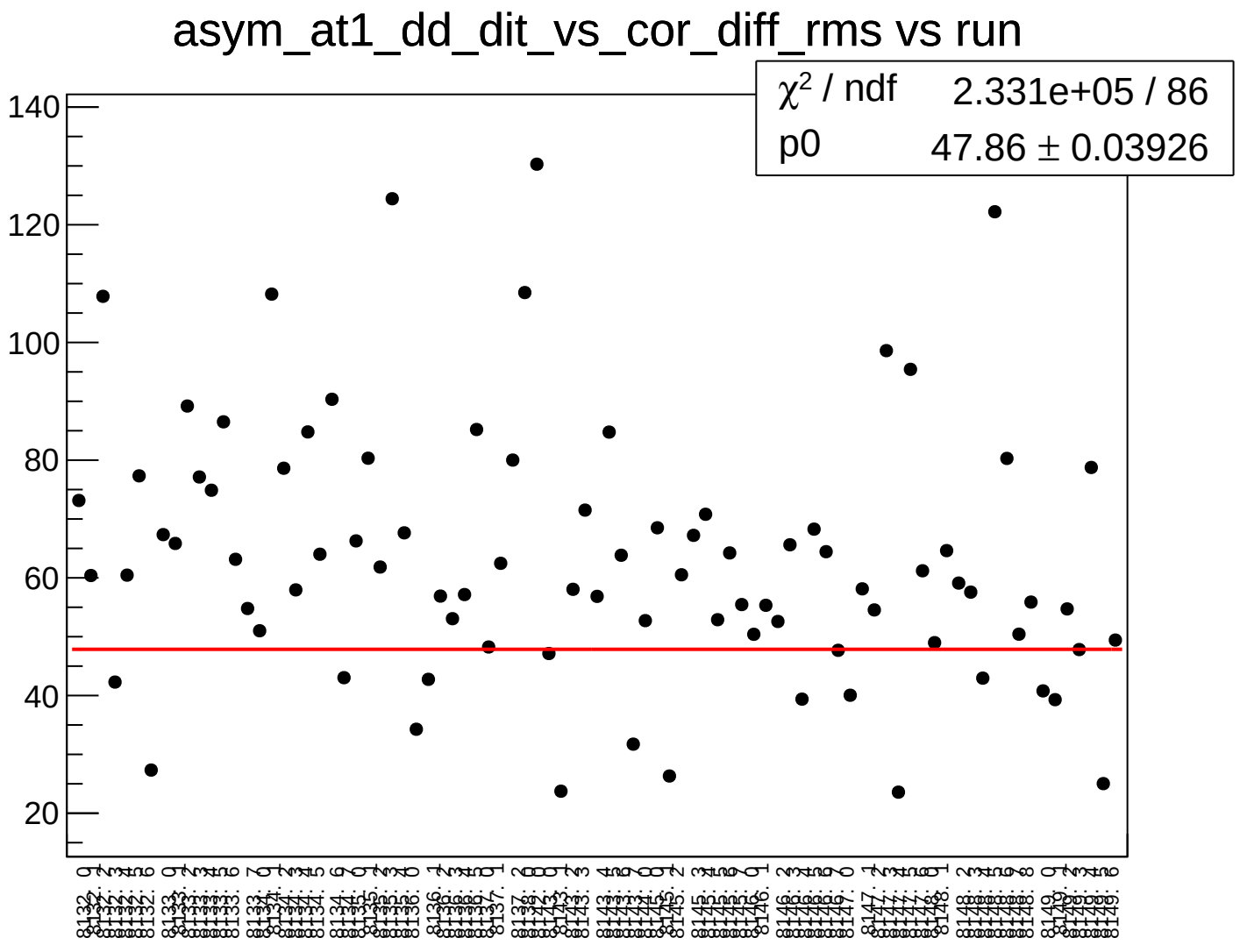

pull1D
Entries 87
Mean 0.0068
Std Dev 0.9954

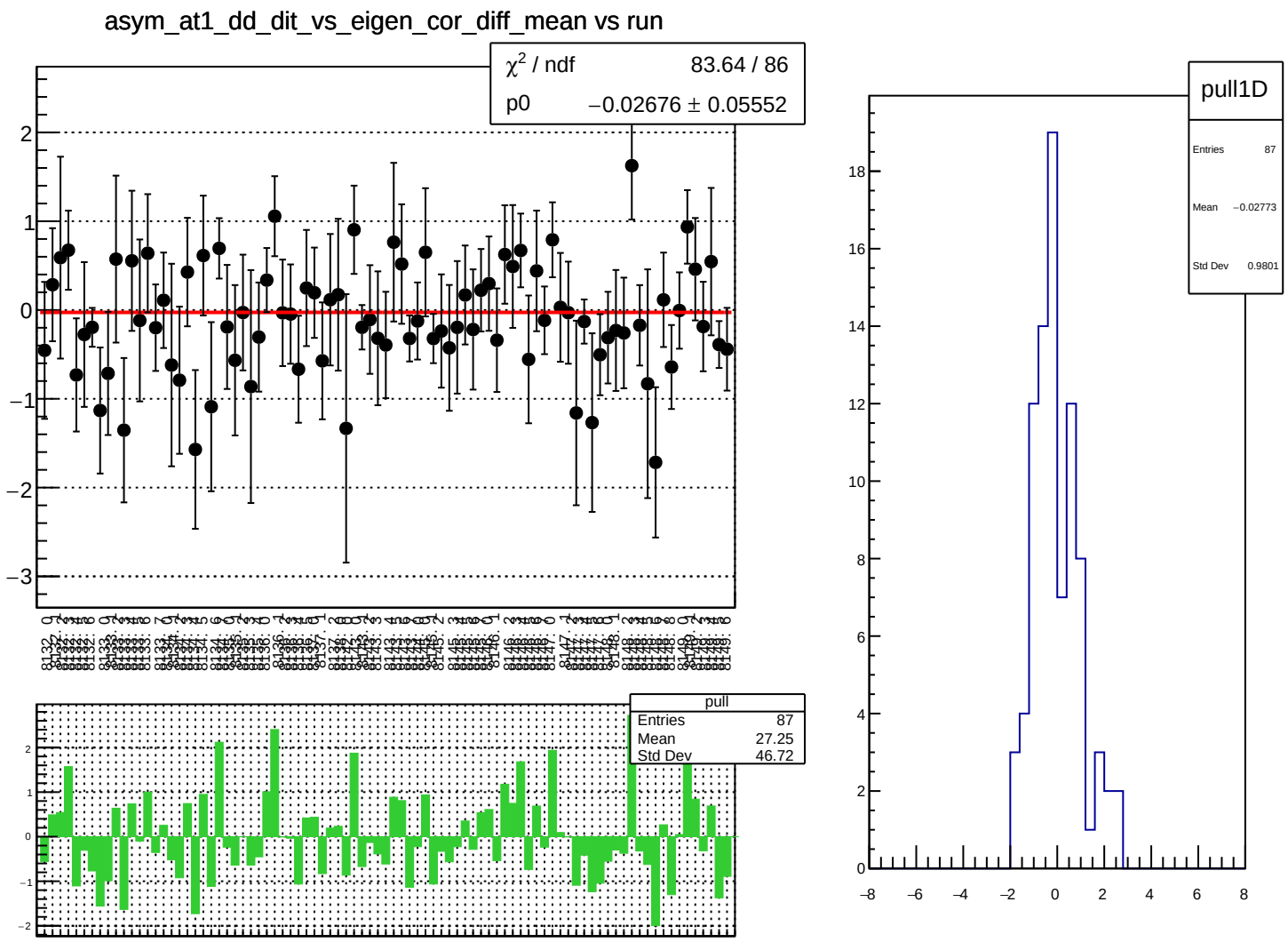

asym_at1_dd_rms vs run
χ^2 / ndf 745 / 86
p0 1958 ± 1.494
2150
2100
2050
2000
1950
1900

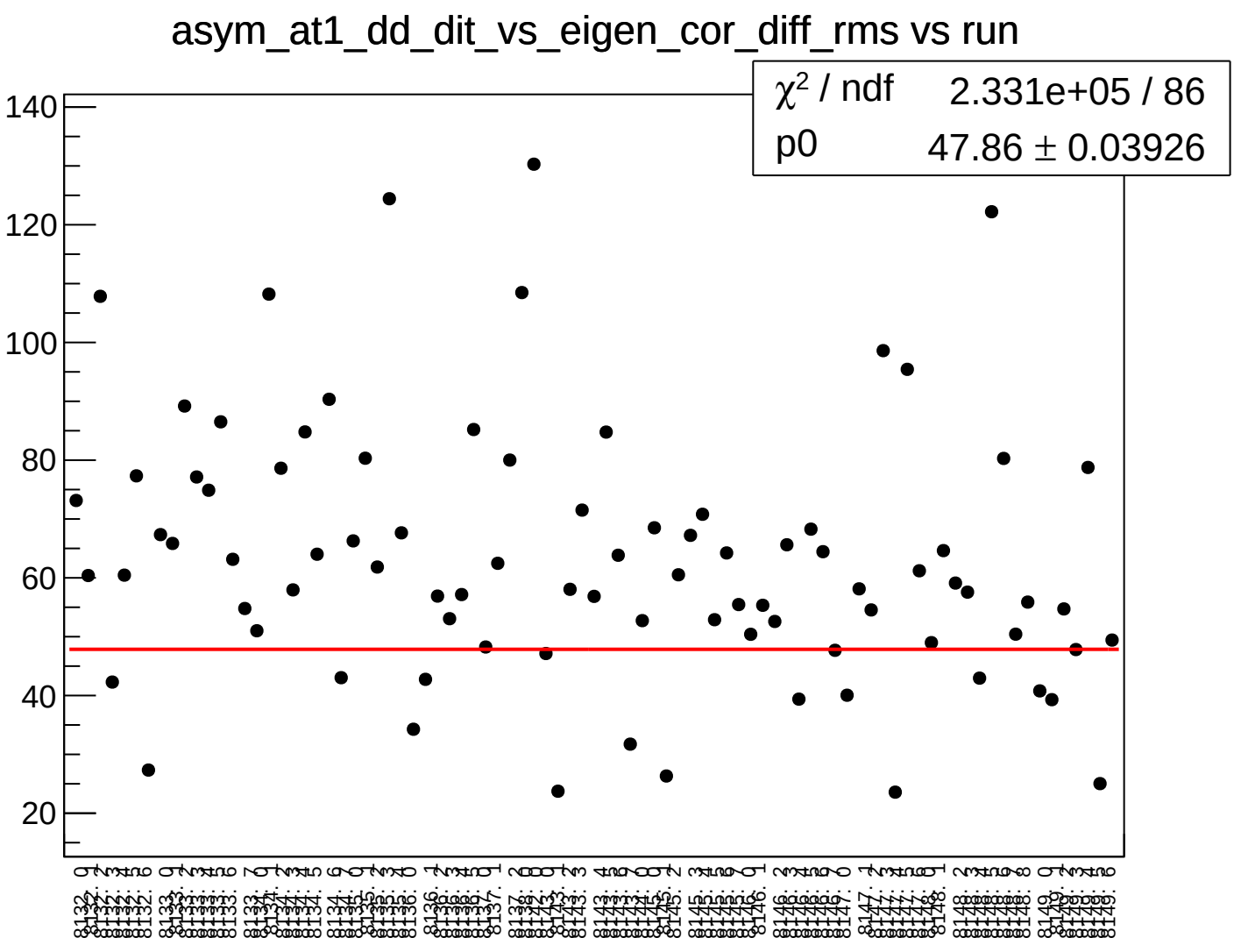

asym_at1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 102.8 / 86
p0 −7.345e−14 ± 8.76e−14
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 87
Mean 53.66
Std Dev 31.05
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean −0.2089
Std Dev 1.067
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

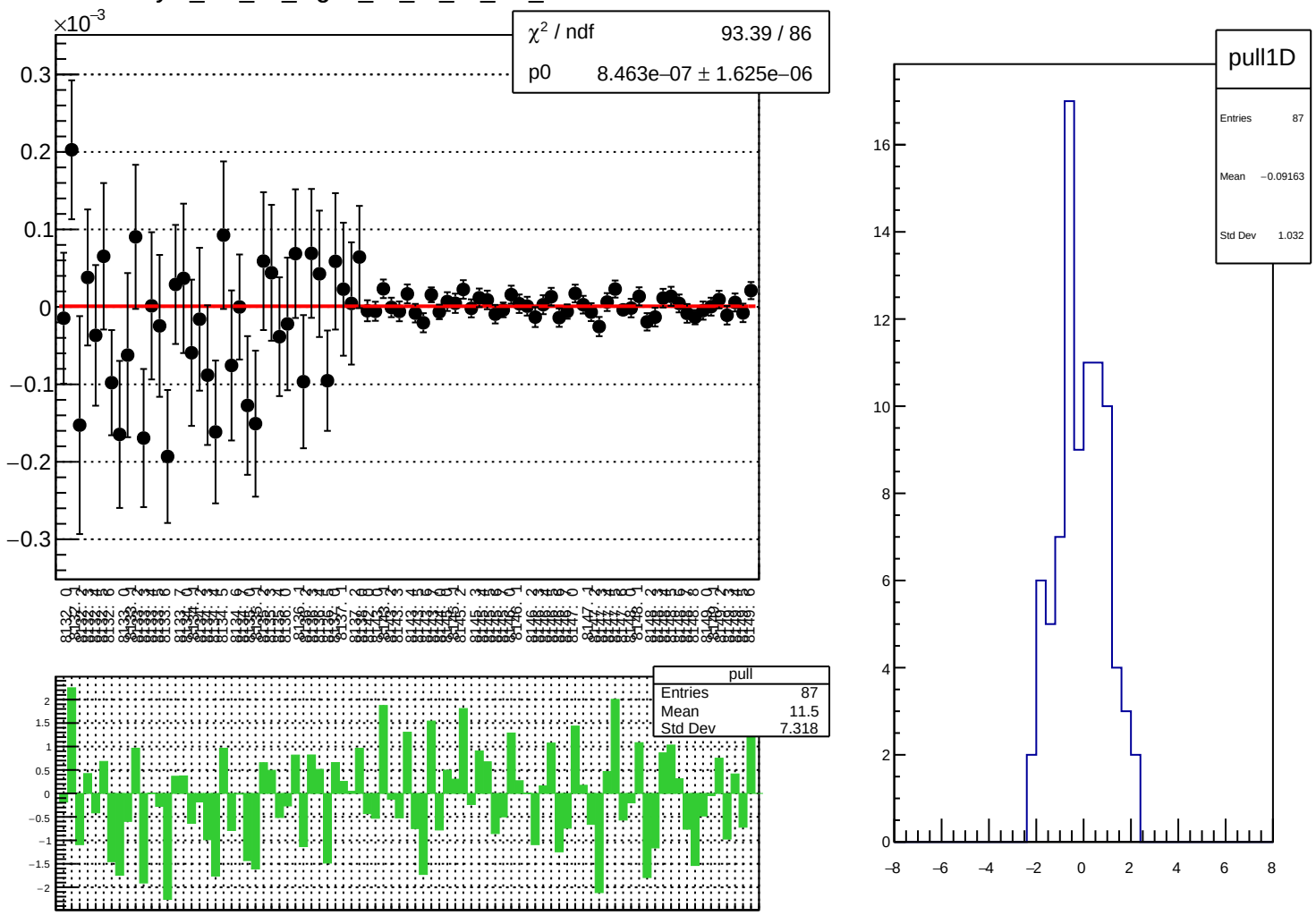

asym_at1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.003e+06 / 86
p0 5.242e−11 ± 6.194e−14
1.2
1
0.8
0.6
0.4
0.2
0

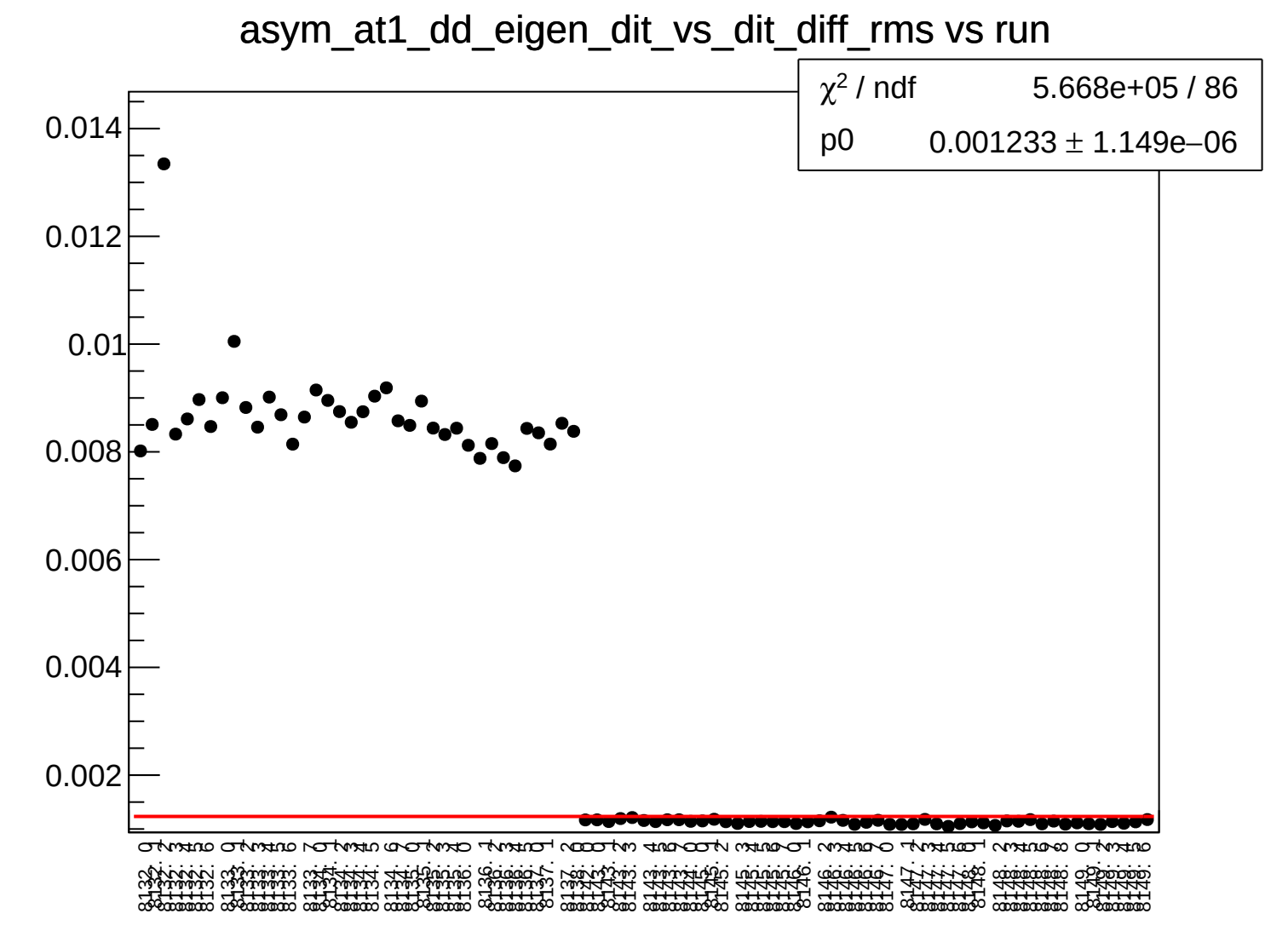

asym_at1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 83.64 / 86
p0 −0.02676 ± 0.05552
pull
Entries 87
Mean 27.25
Std Dev 46.72
pull1D
Entries 87
Mean −0.02773
Std Dev 0.9801

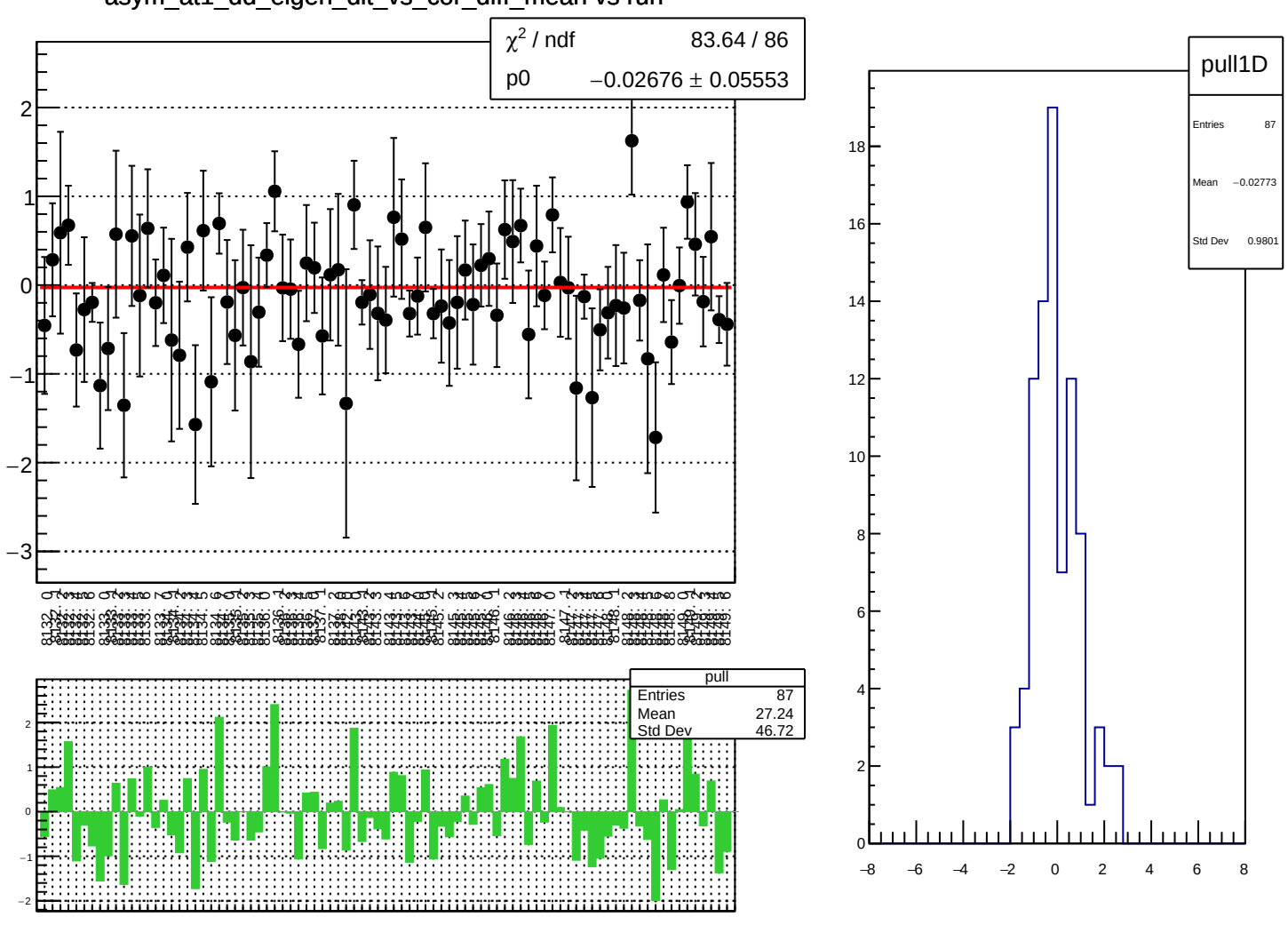

asym_at1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.331e+05 / 86
p0 47.86 ± 0.03926
140
120
100
80
60
40
20

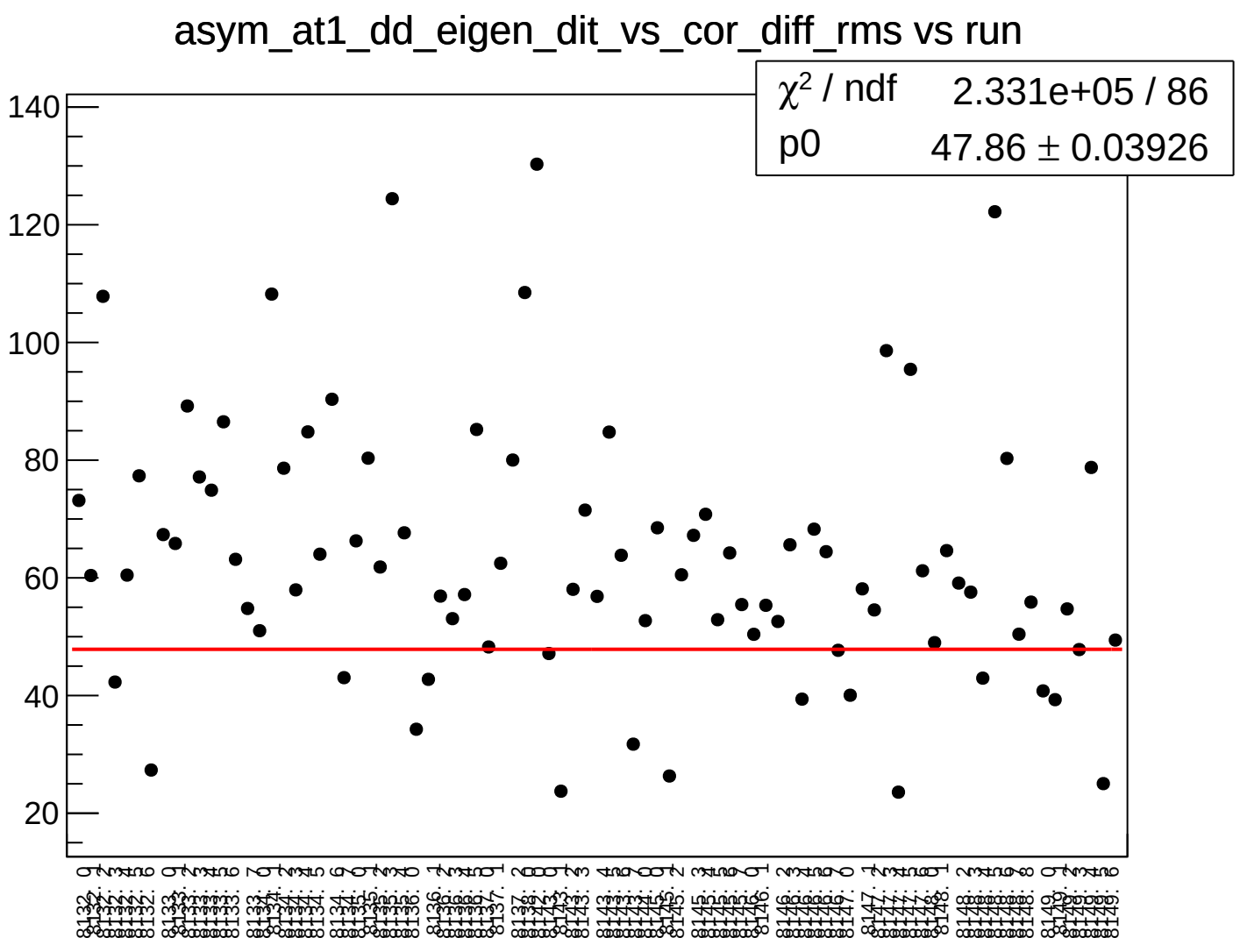

asym_at1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.64 / 86
p0 −0.02676 ± 0.05552
pull
Entries 87
Mean 27.25
Std Dev 46.72
pull1D
Entries 87
Mean −0.02773
Std Dev 0.9801

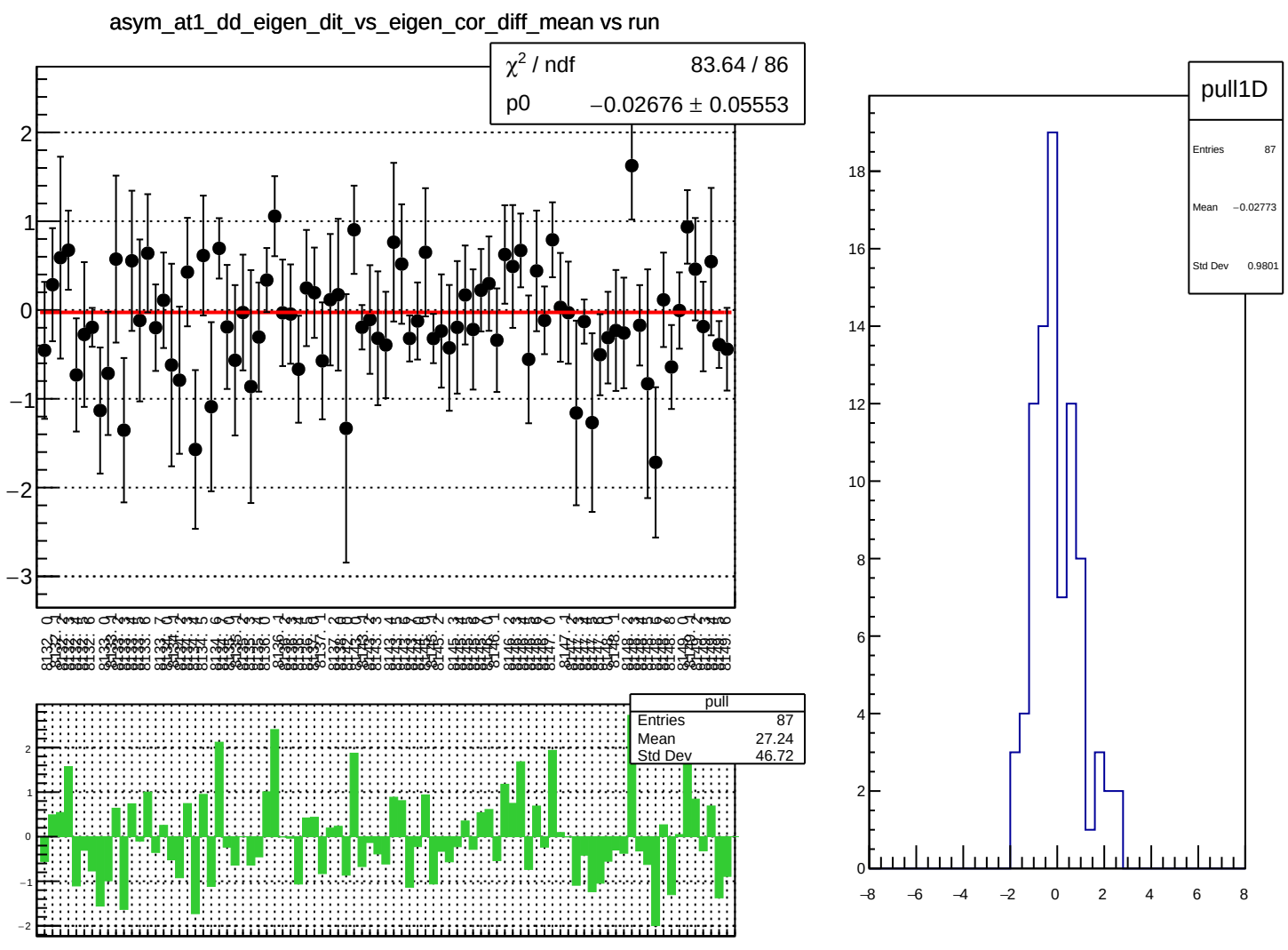

asym_at1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.331e+05 / 86
p0 47.86 ± 0.03926
140
120
100
80
60
40
20

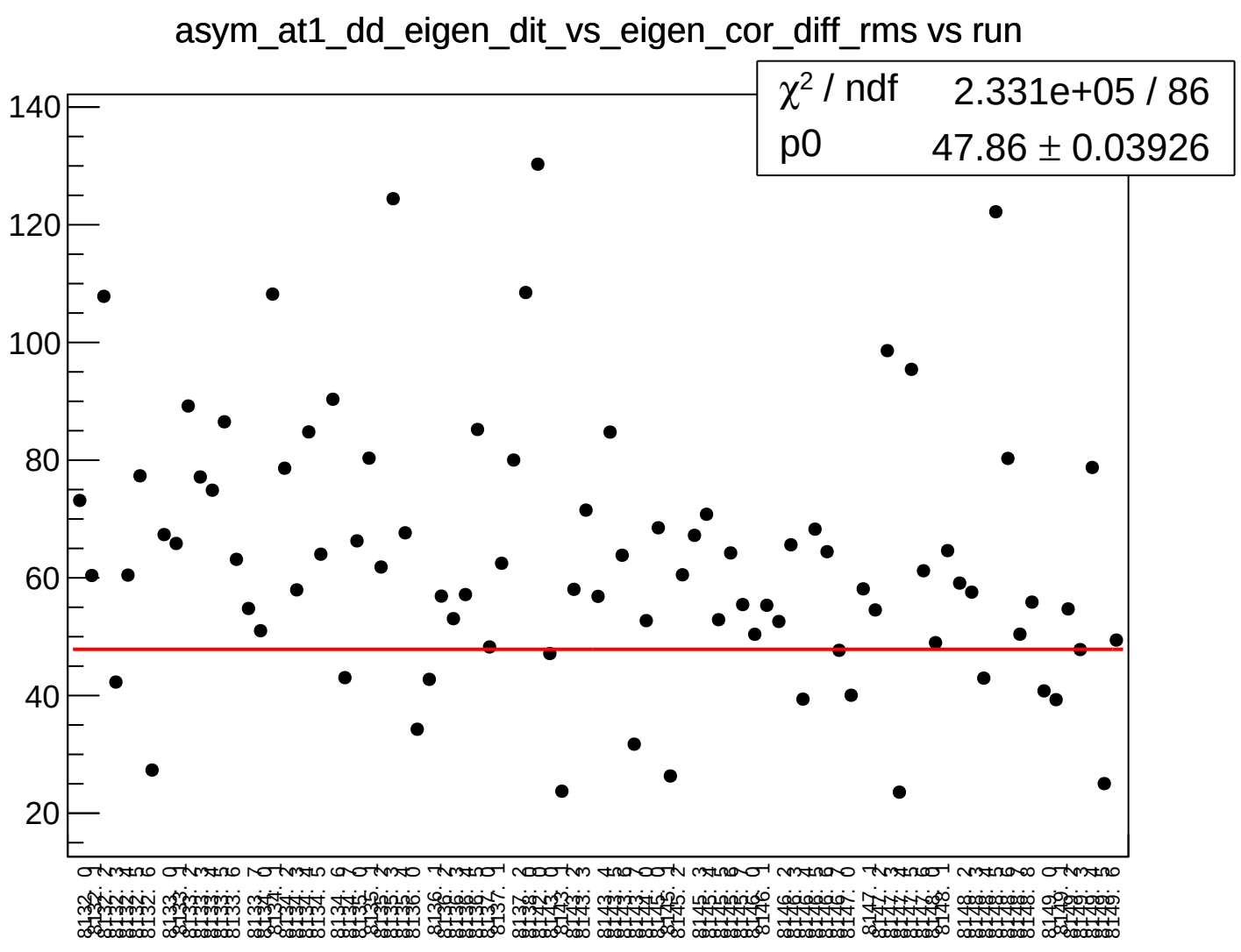

asym_at1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.39 / 86
p0 8.463e−07 ± 1.625e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 87
Mean 11.5
Std Dev 7.318
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 87
Mean −0.09163
Std Dev 1.032
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

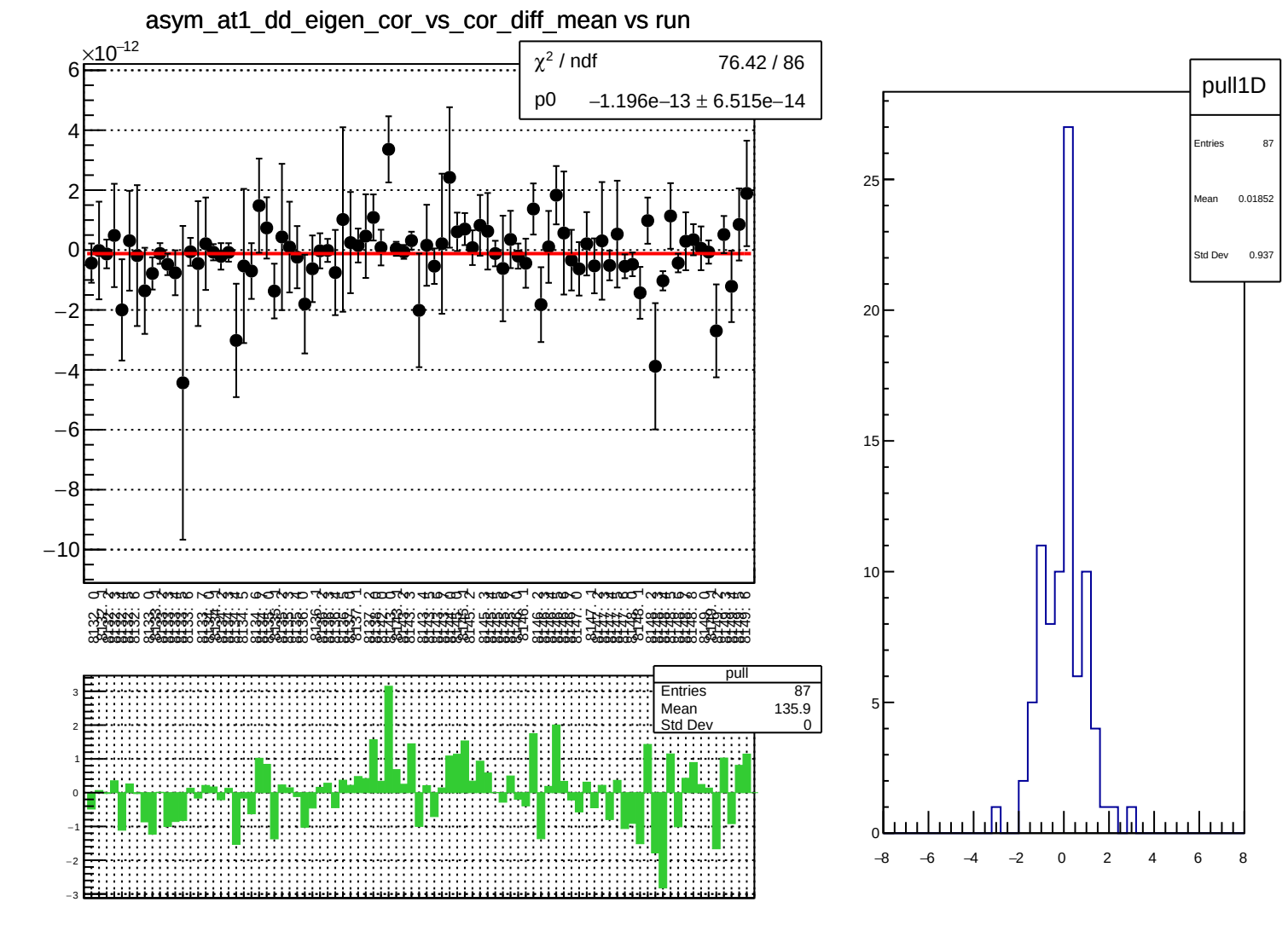

asym_at1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.668e+05 / 86
p0 0.001233 ± 1.149e−06
0.014
0.012
0.01
0.008
0.006
0.004
0.002

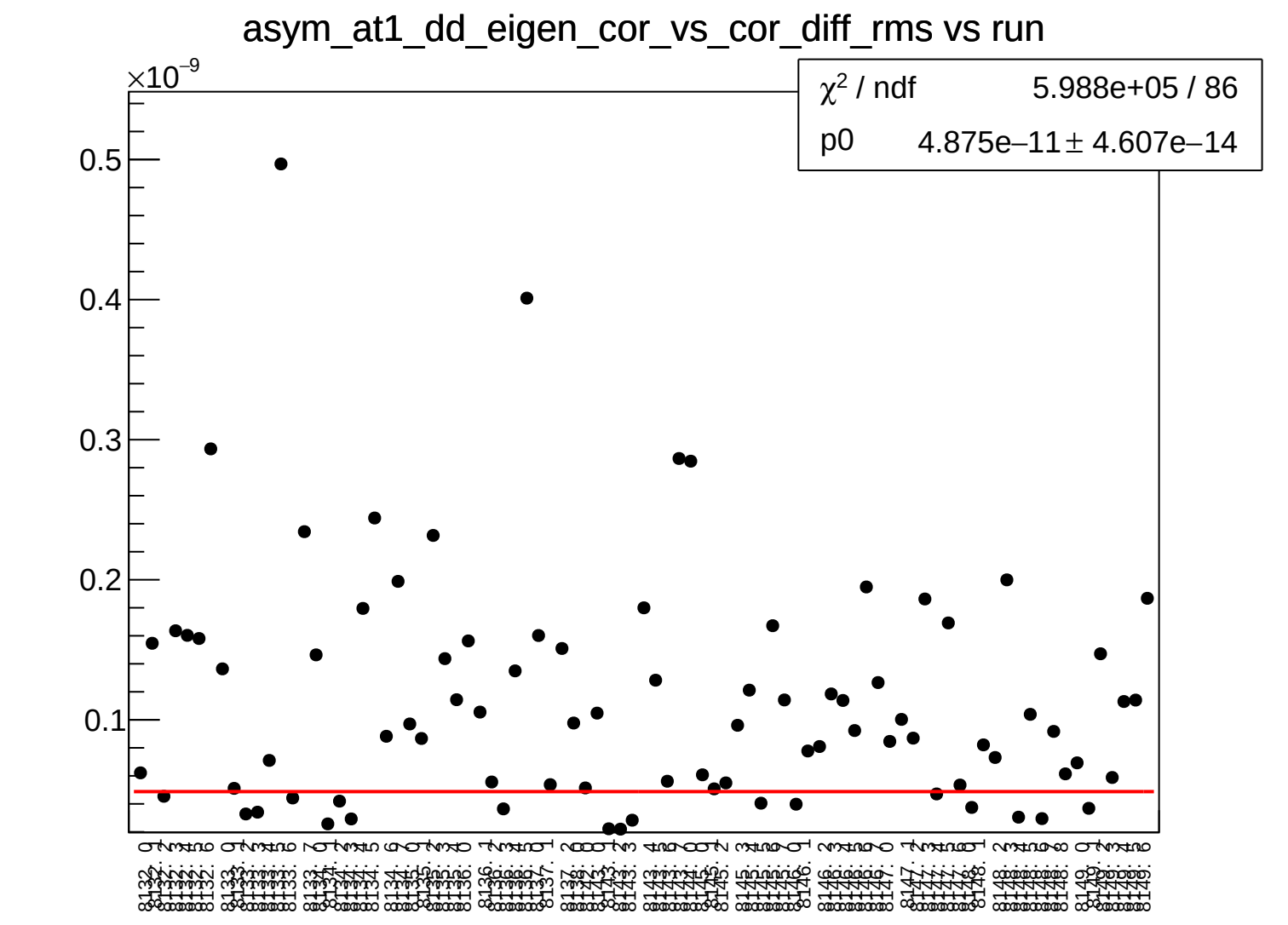

asym_at1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.64 / 86
p0 −0.02676 ± 0.05553
pull
Entries 87
Mean 27.24
Std Dev 46.72
pull1D
Entries 87
Mean −0.02773
Std Dev 0.9801

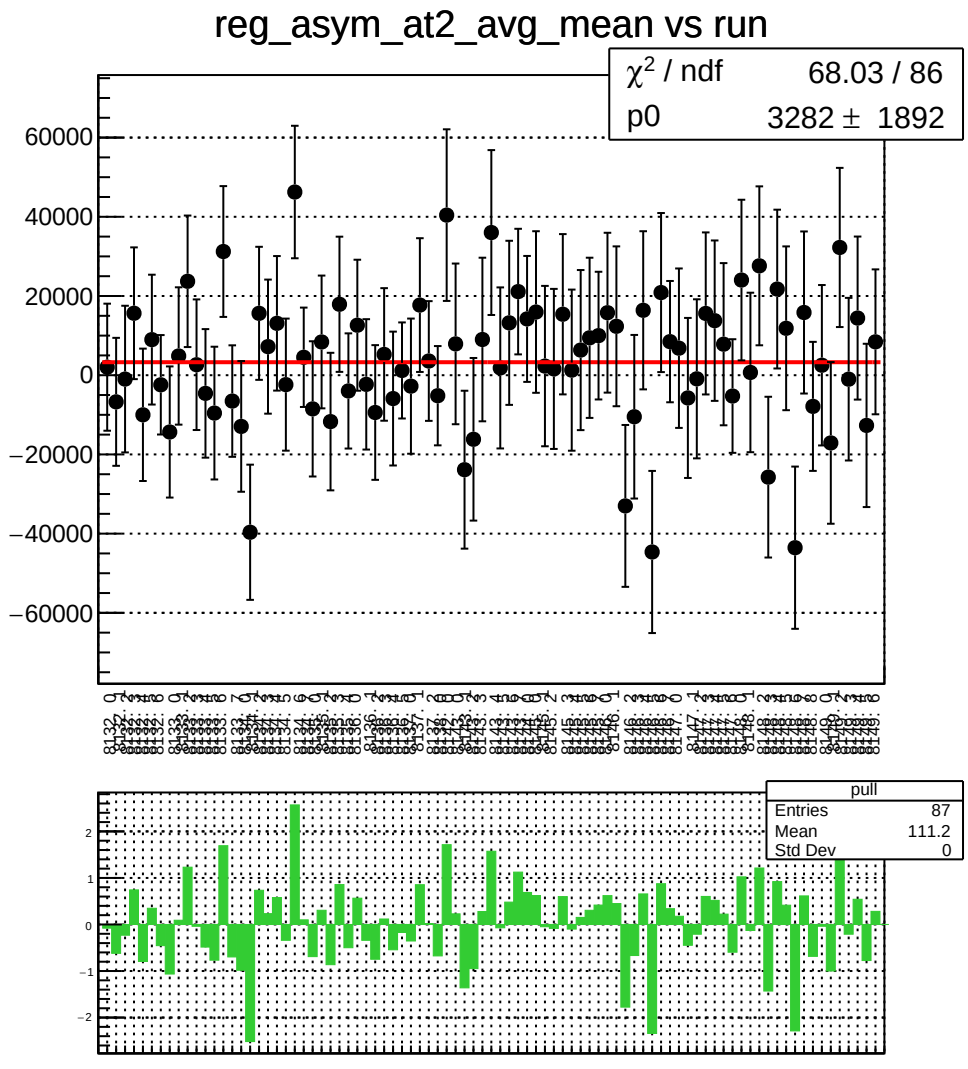

asym_at1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.331e+05 / 86
p0 47.86 ± 0.03926
140
120
100
80
60
40
20

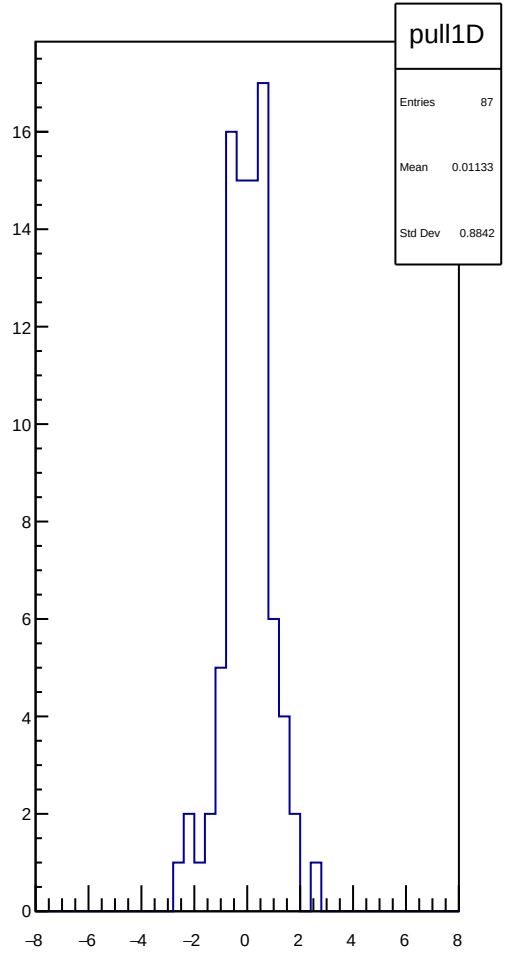

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.64 / 86
p0 −0.02676 ± 0.05553
pull
Entries 87
Mean 27.24
Std Dev 46.72
pull1D
Entries 87
Mean −0.02773
Std Dev 0.9801

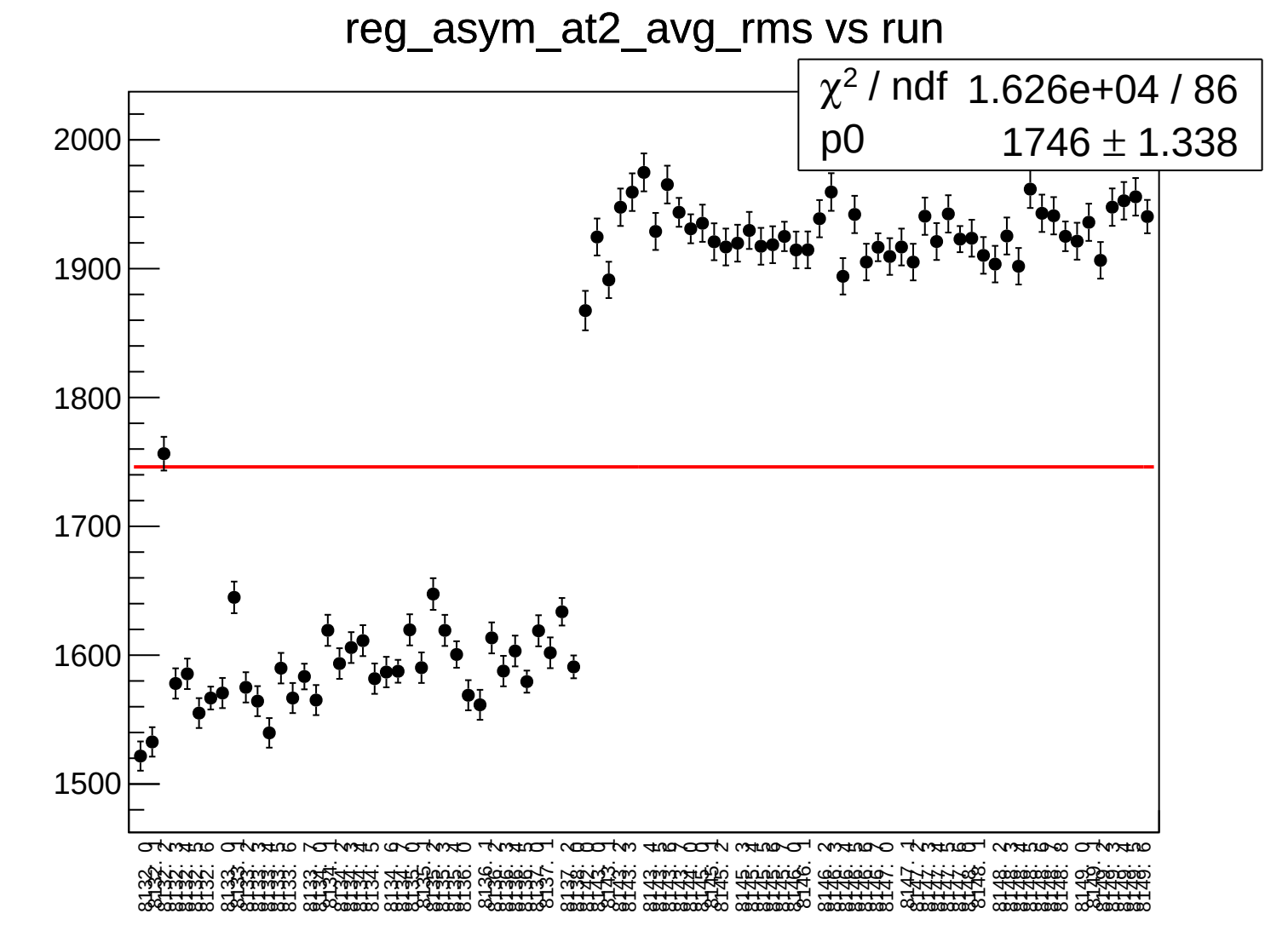

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.331e+05 / 86
p0 47.86 ± 0.03926
140
120
100
80
60
40
20

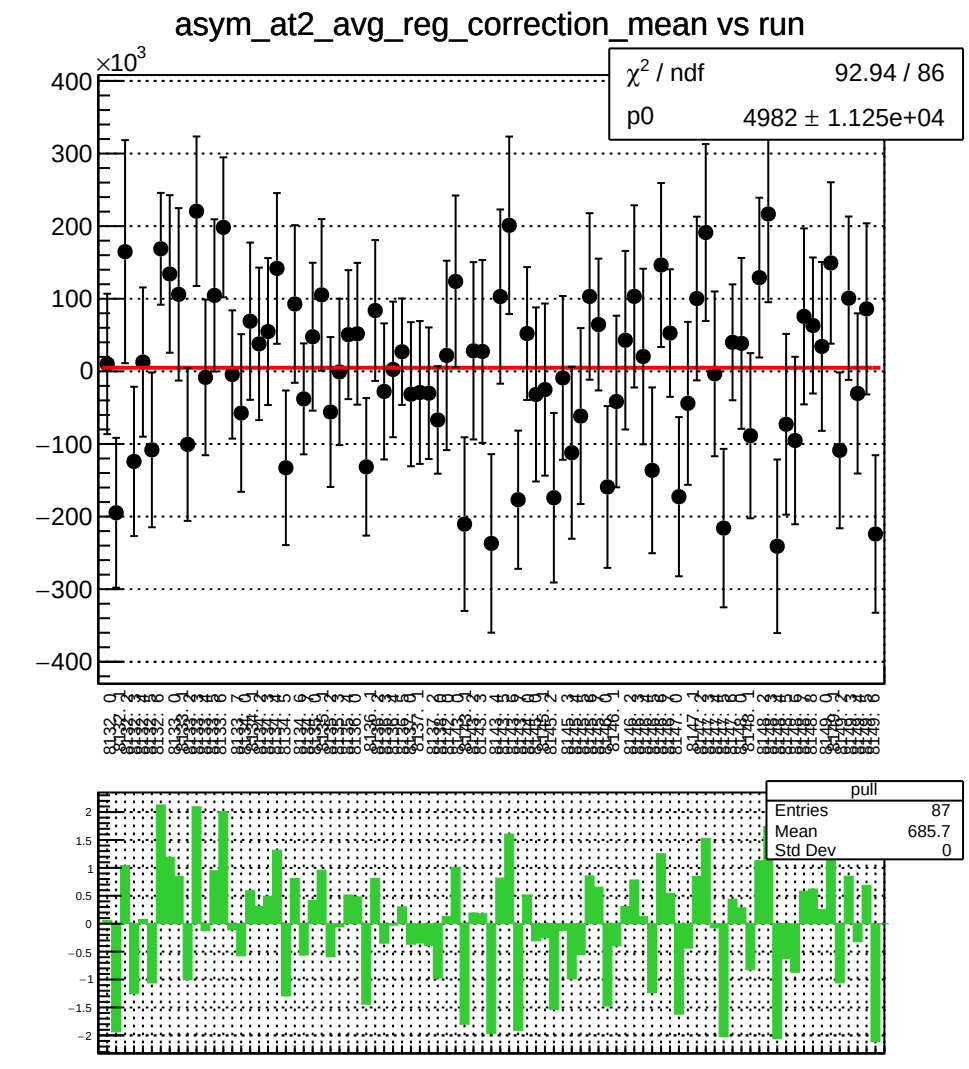

asym_at1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.42 / 86
p0 −1.196e−13 ± 6.515e−14
pull
Entries 87
Mean 135.9
Std Dev 0
pull1D
Entries 87
Mean 0.01852
Std Dev 0.937

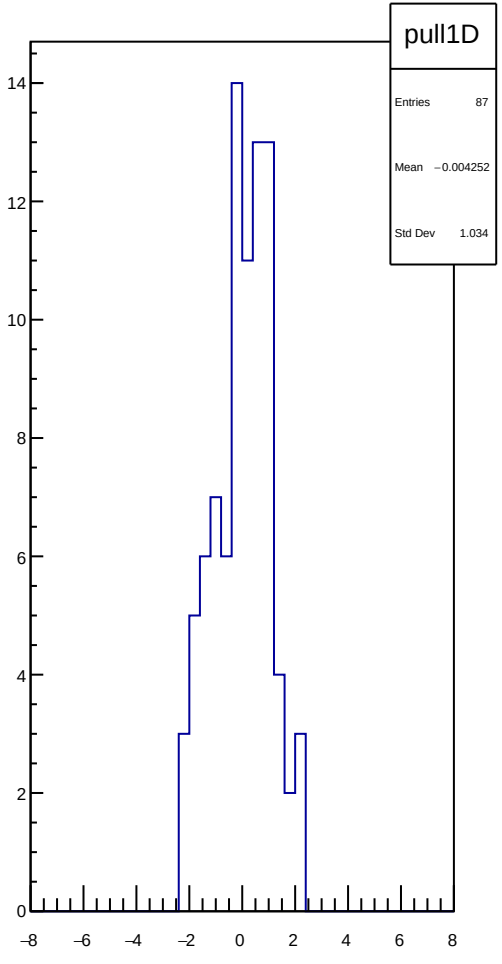

asym_at1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.988e+05 / 86
p0 4.875e−11 ± 4.607e−14
0.5
0.4
0.3
0.2
0.1

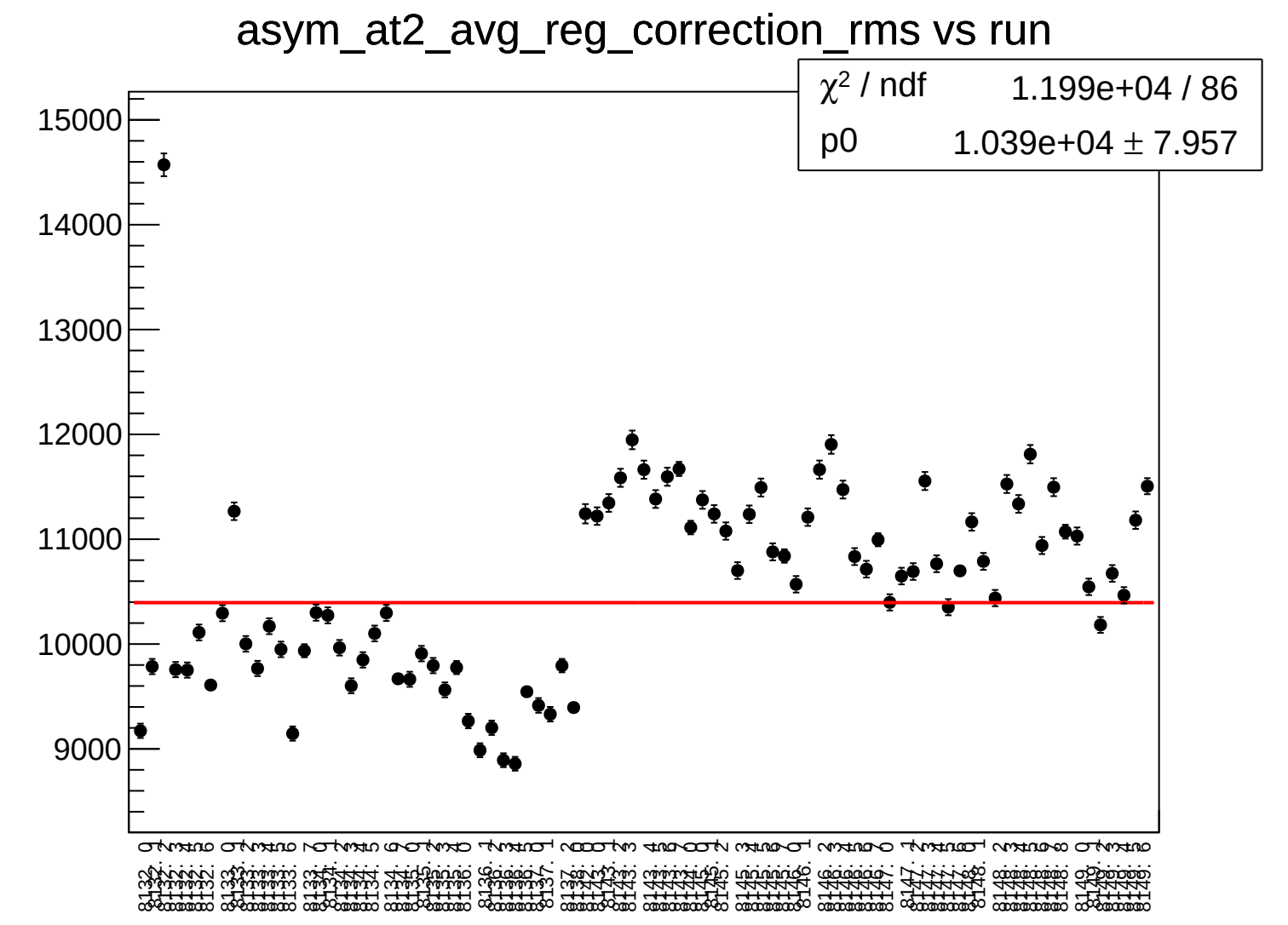

reg_asym_at2_avg_mean vs run
χ² / ndf 68.03 / 86
p0 3282 ± 1892
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 111.2
Std Dev 0
2
1
0
−1
−2

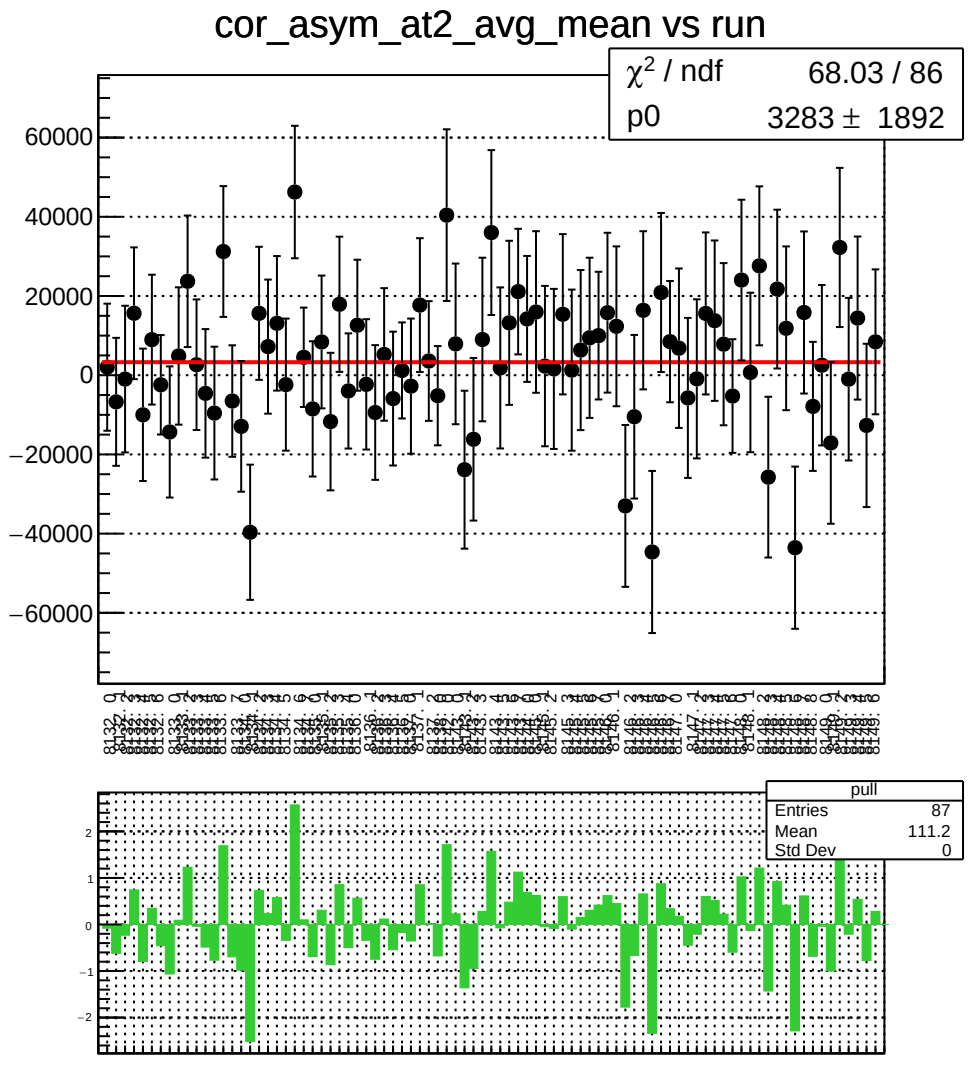

pull1D
Entries 87
Mean 0.01133
Std Dev 0.8842
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

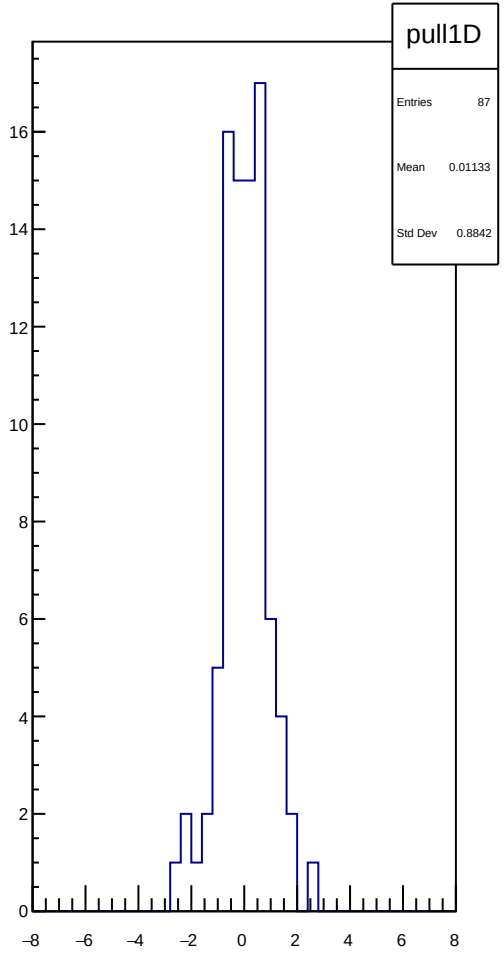

reg_asym_at2_avg_rms vs run
χ² / ndf 1.626e+04 / 86
p0 1746 ± 1.338
2000
1900
1800
1700
1600
1500


asym_at2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 92.94 / 86
p0 4982 ± 1.125e+04
pull
Entries 87
Mean 685.7
Std Dev 0


pull1D
Entries 87
Mean −0.004252
Std Dev 1.034


asym_at2_avg_reg_correction_rms vs run
χ² / ndf 1.199e+04 / 86
p0 1.039e+04 ± 7.957
15000
14000
13000
12000
11000
10000
9000


cor_asym_at2_avg_mean vs run
χ² / ndf 68.03 / 86
p0 3283 ± 1892
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 111.2
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 87
Mean 0.01133
Std Dev 0.8842
16
14
12
10
8
6
4
2
0
−8
−6
−4
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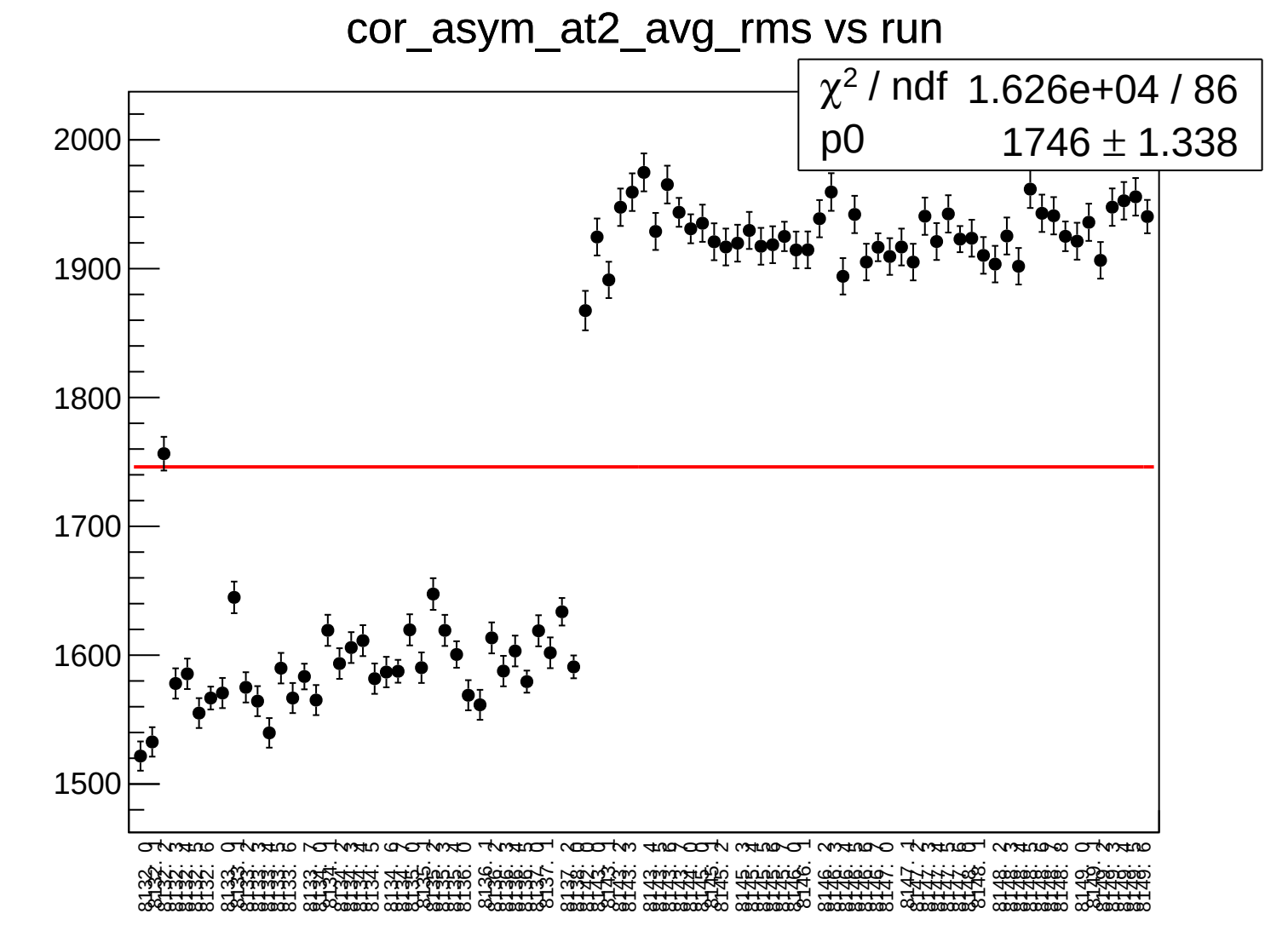
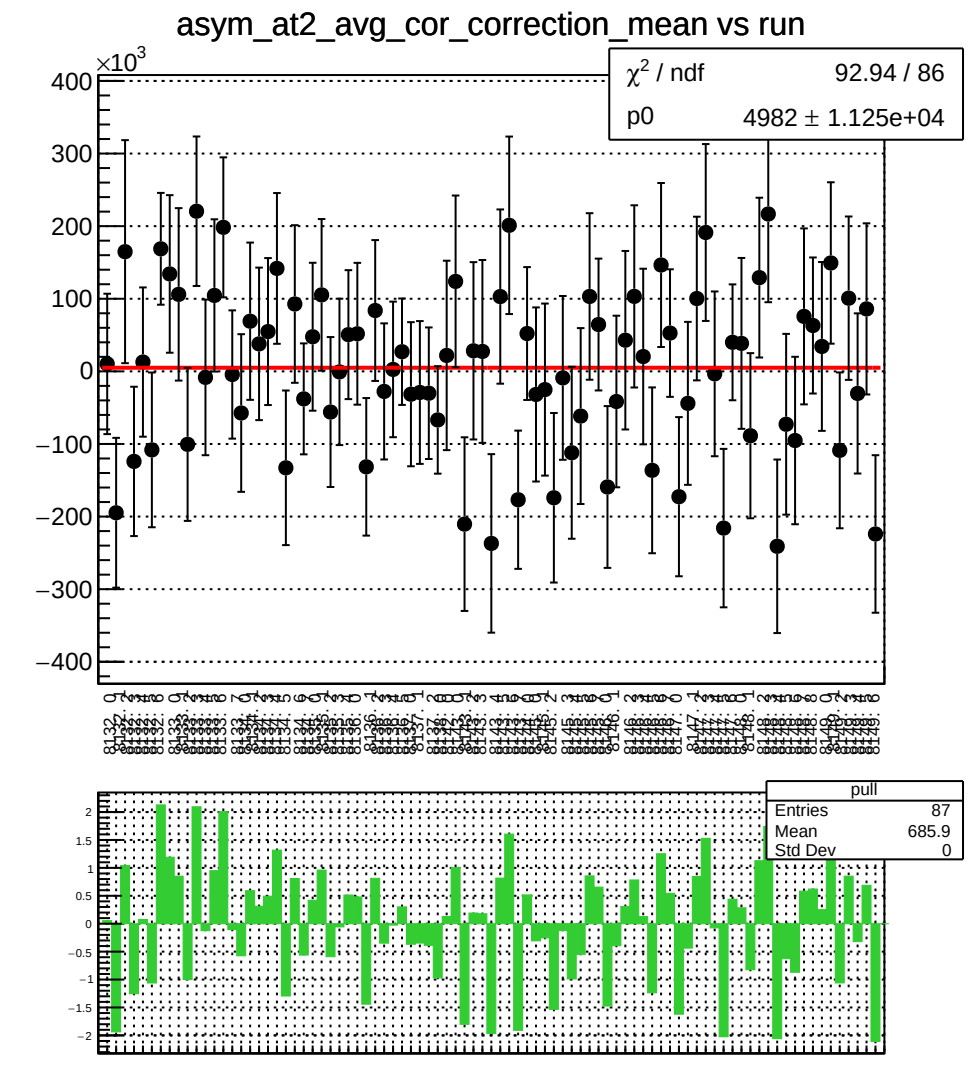
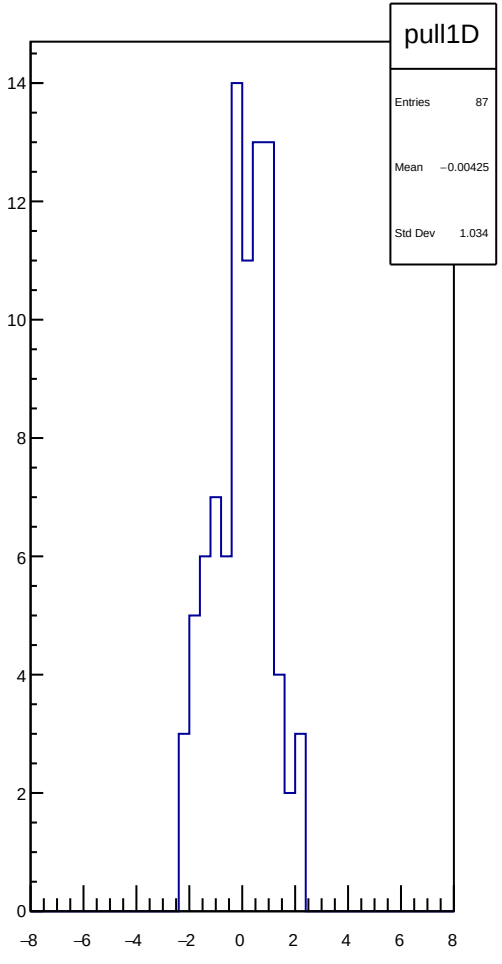
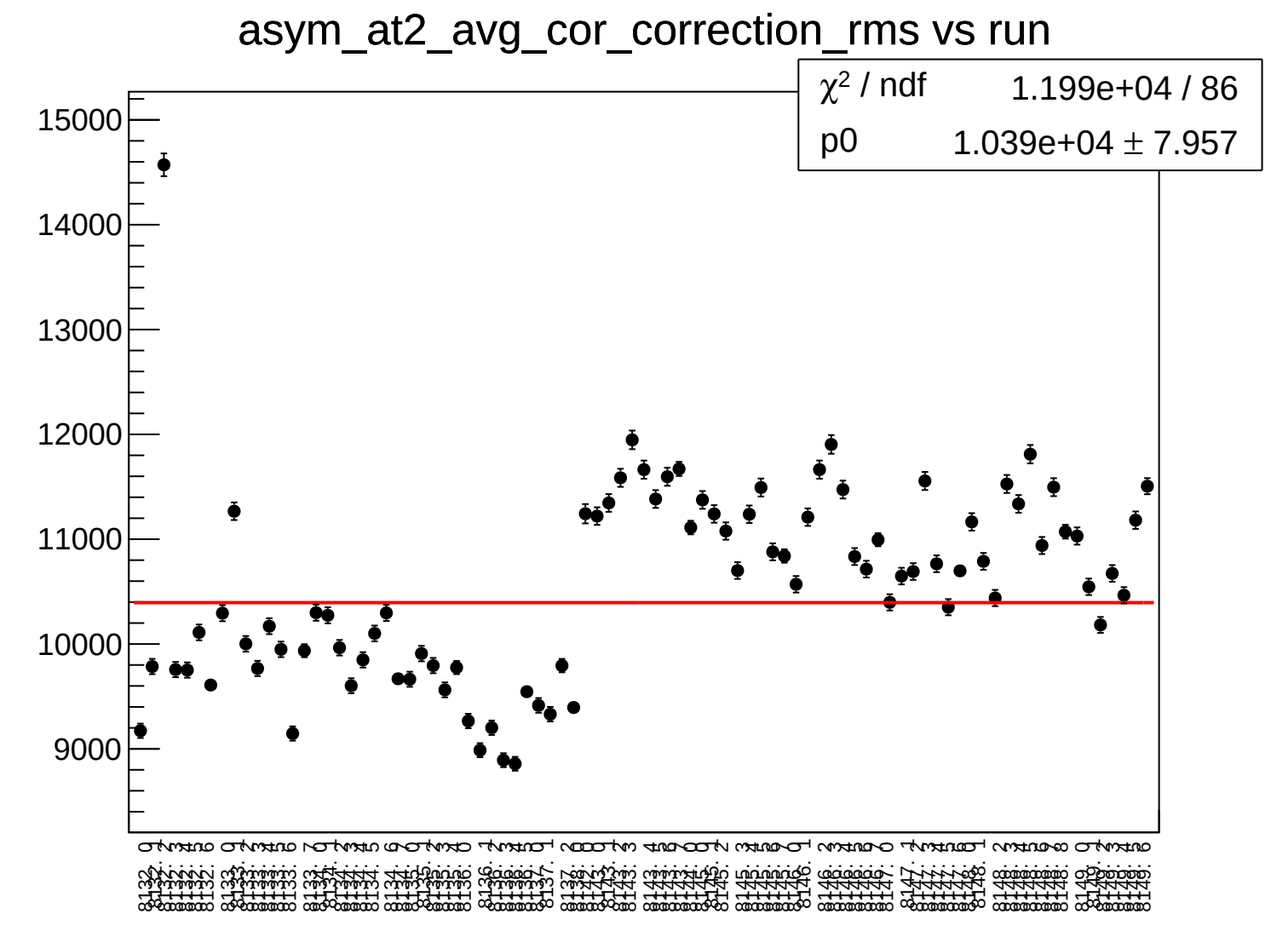
2
4
6
8


cor_asym_at2_avg_rms vs run
χ² / ndf 1.626e+04 / 86
p0 1746 ± 1.338
2000
1900
1800
1700
1600
1500


asym_at2_avg_cor_correction_mean vs run
χ² / ndf 92.94 / 86
p0 4982 ± 1.125e+04
×10³
pull
Entries 87
Mean 685.9
Std Dev 0


pull1D
Entries 87
Mean −0.00425
Std Dev 1.034


asym_at2_avg_cor_correction_rms vs run
χ² / ndf 1.199e+04 / 86
p0 1.039e+04 ± 7.957
15000
14000
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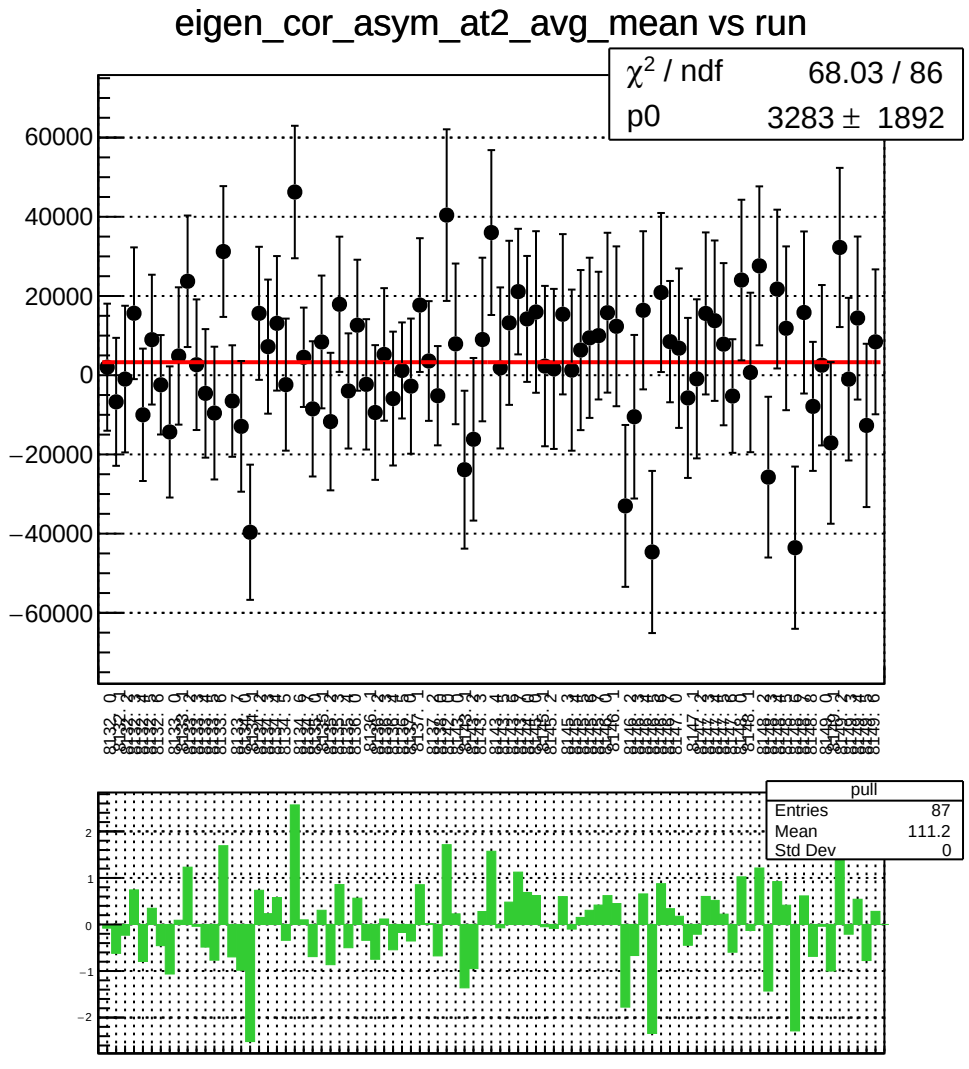
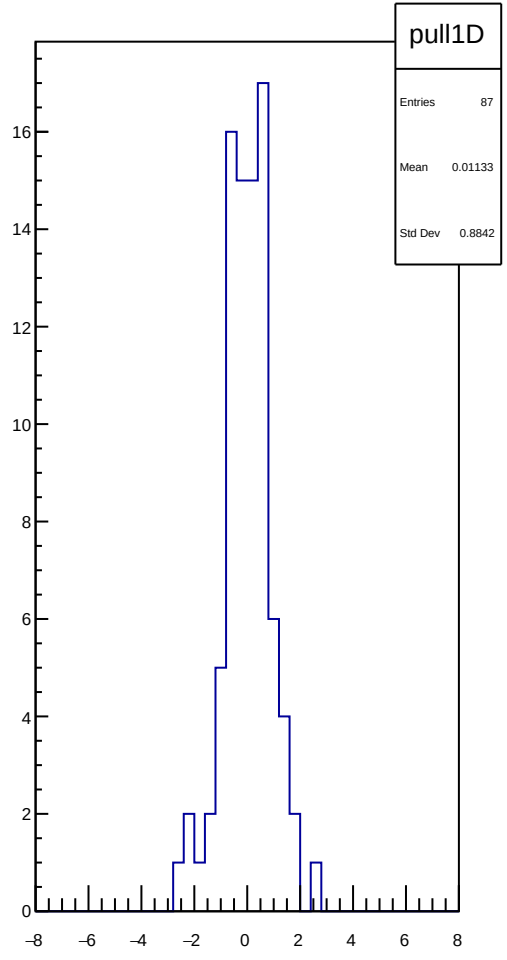
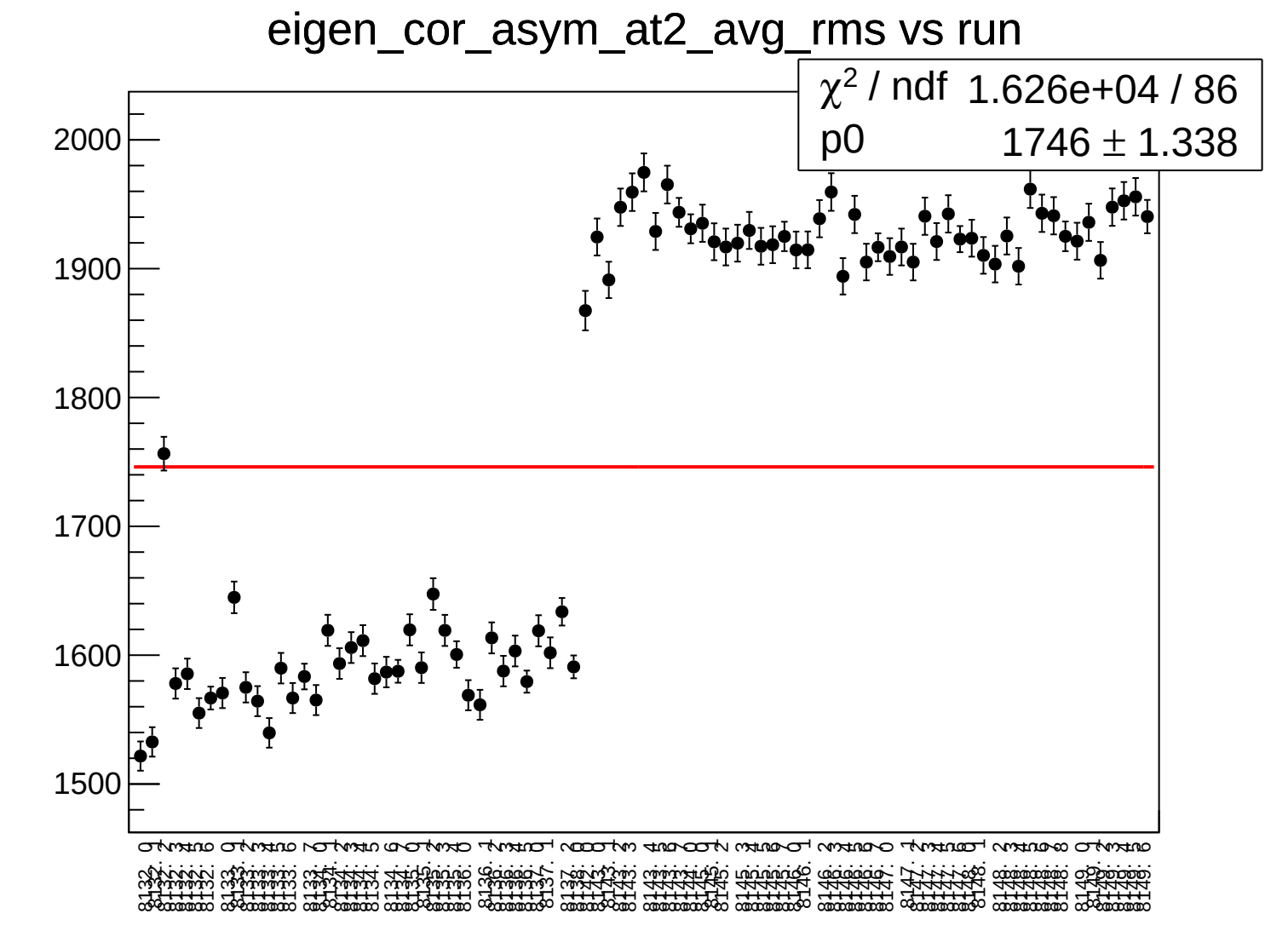
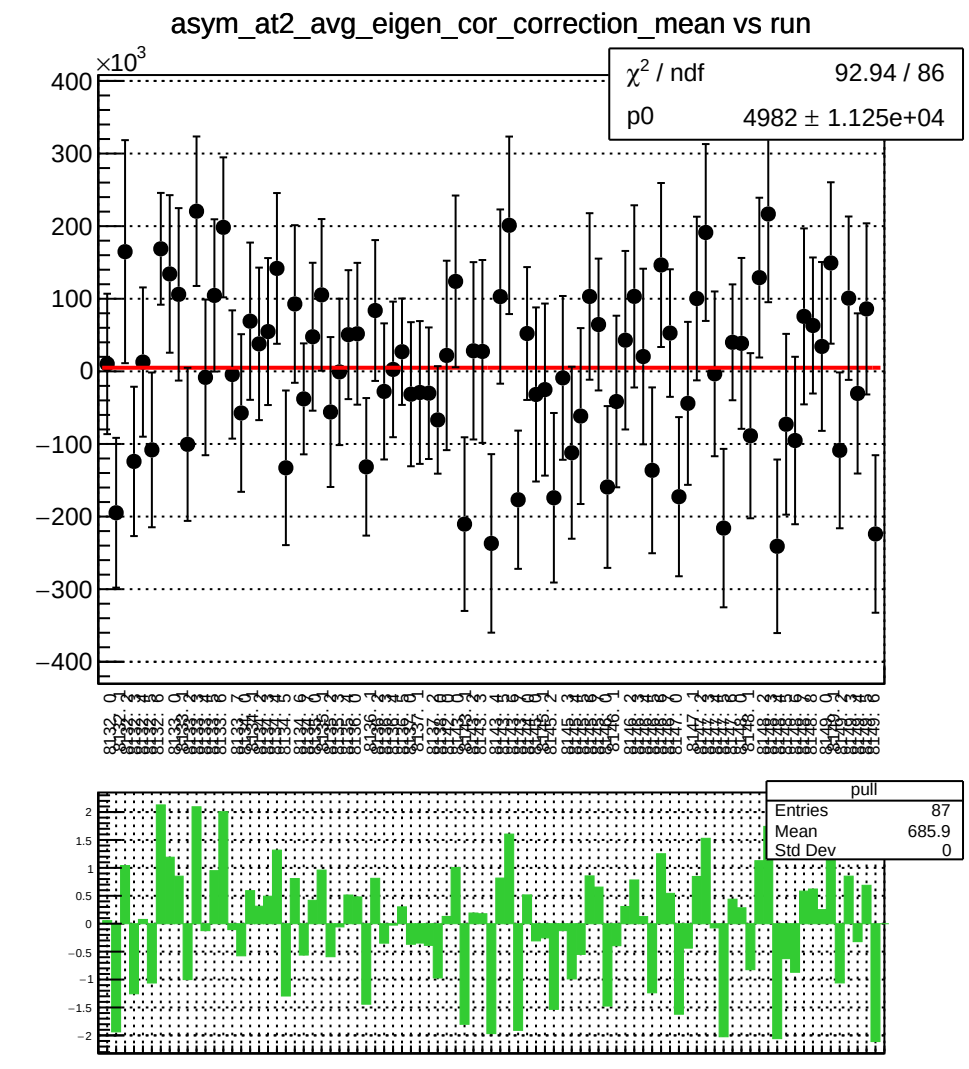
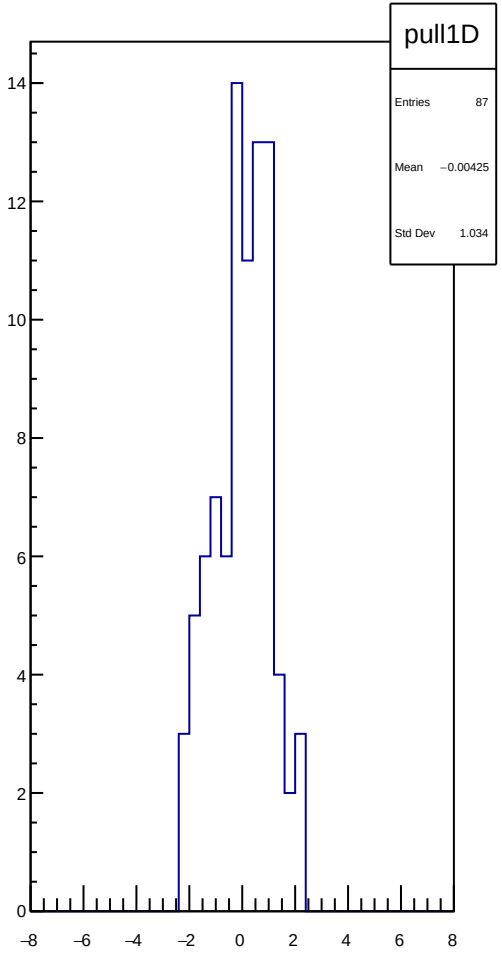
12000
11000
10000
9000

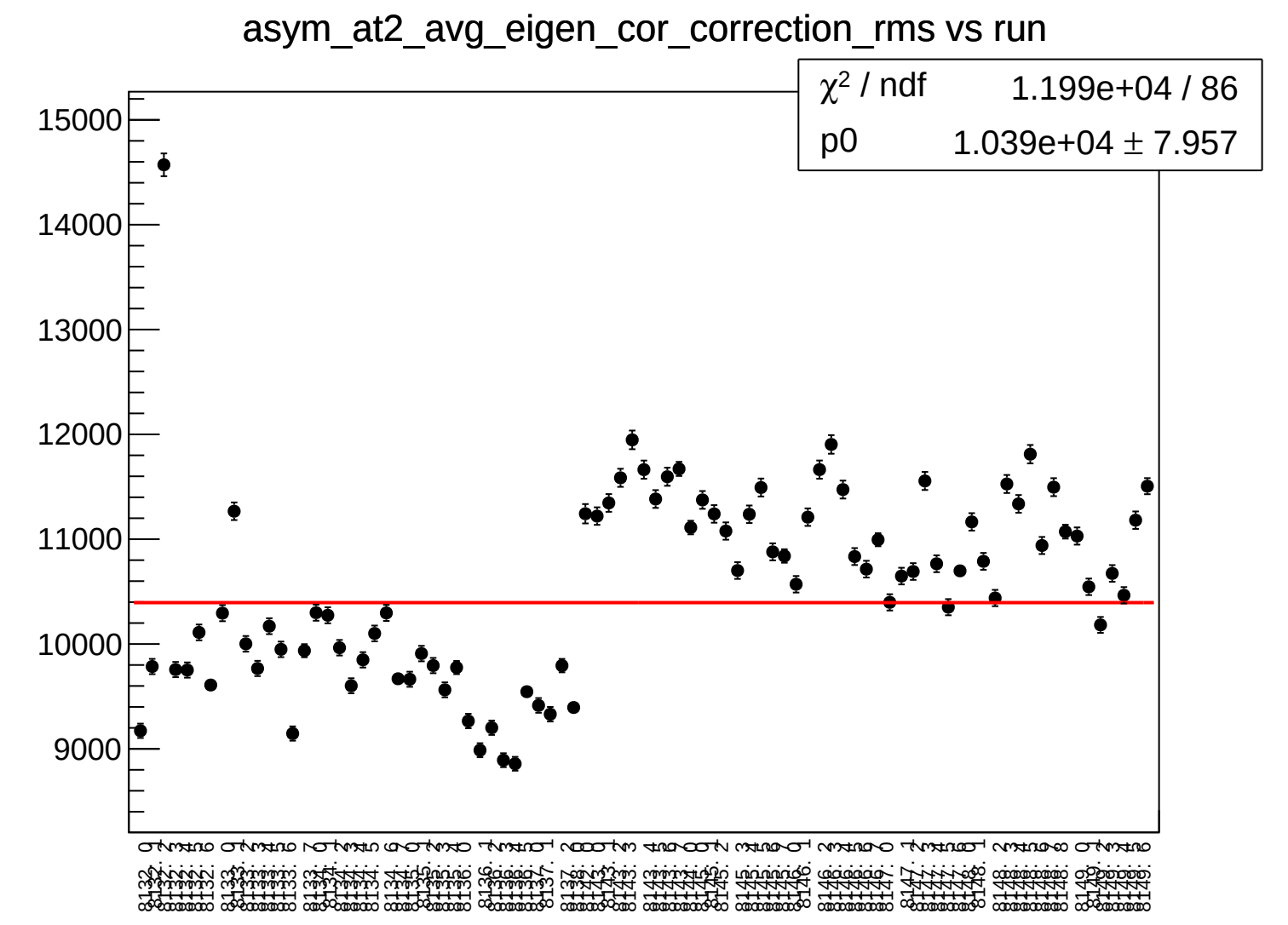

eigen_cor_asym_at2_avg_mean vs run
χ² / ndf 68.03 / 86
p0 3283 ± 1892
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 111.2
Std Dev 0
2
1
0
−1
−2

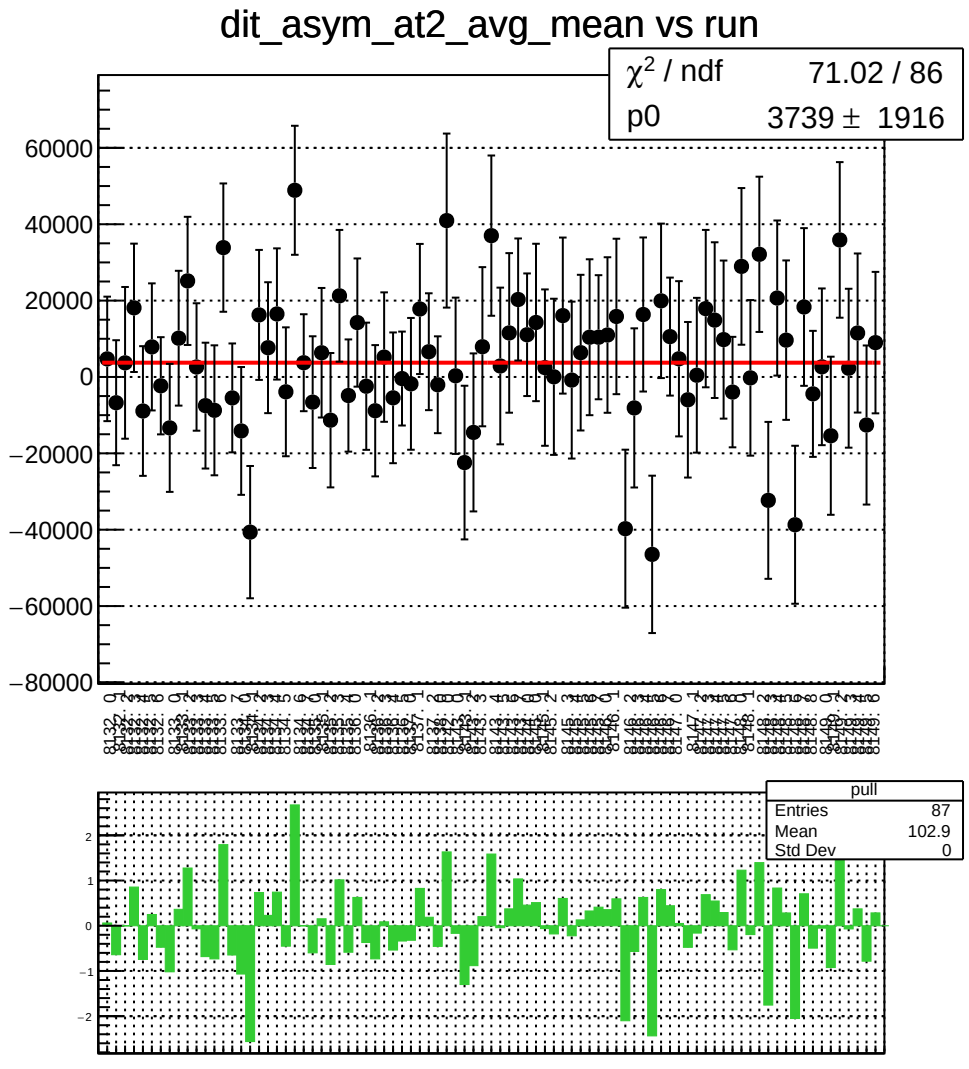

pull1D
Entries 87
Mean 0.01133
Std Dev 0.8842
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

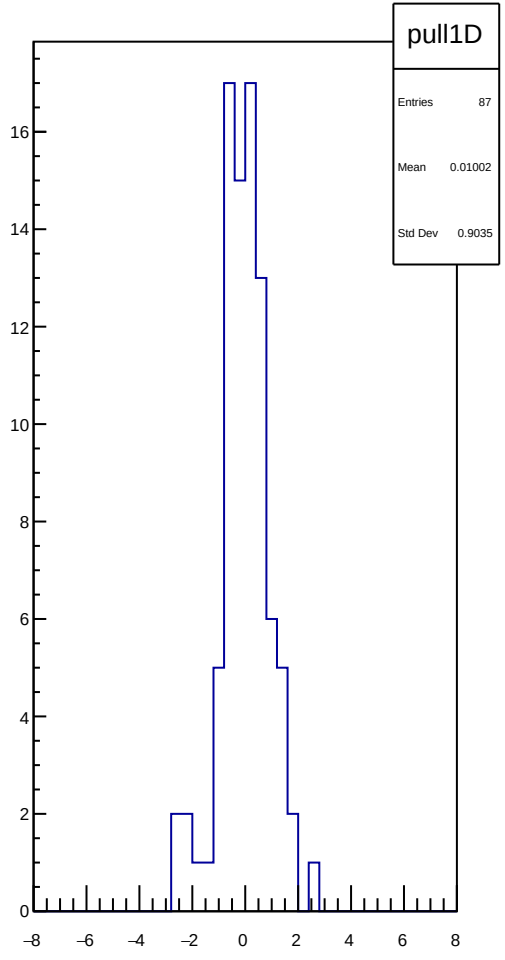

eigen_cor_asym_at2_avg_rms vs run
χ² / ndf 1.626e+04 / 86
p0 1746 ± 1.338
2000
1900
1800
1700
1600
1500

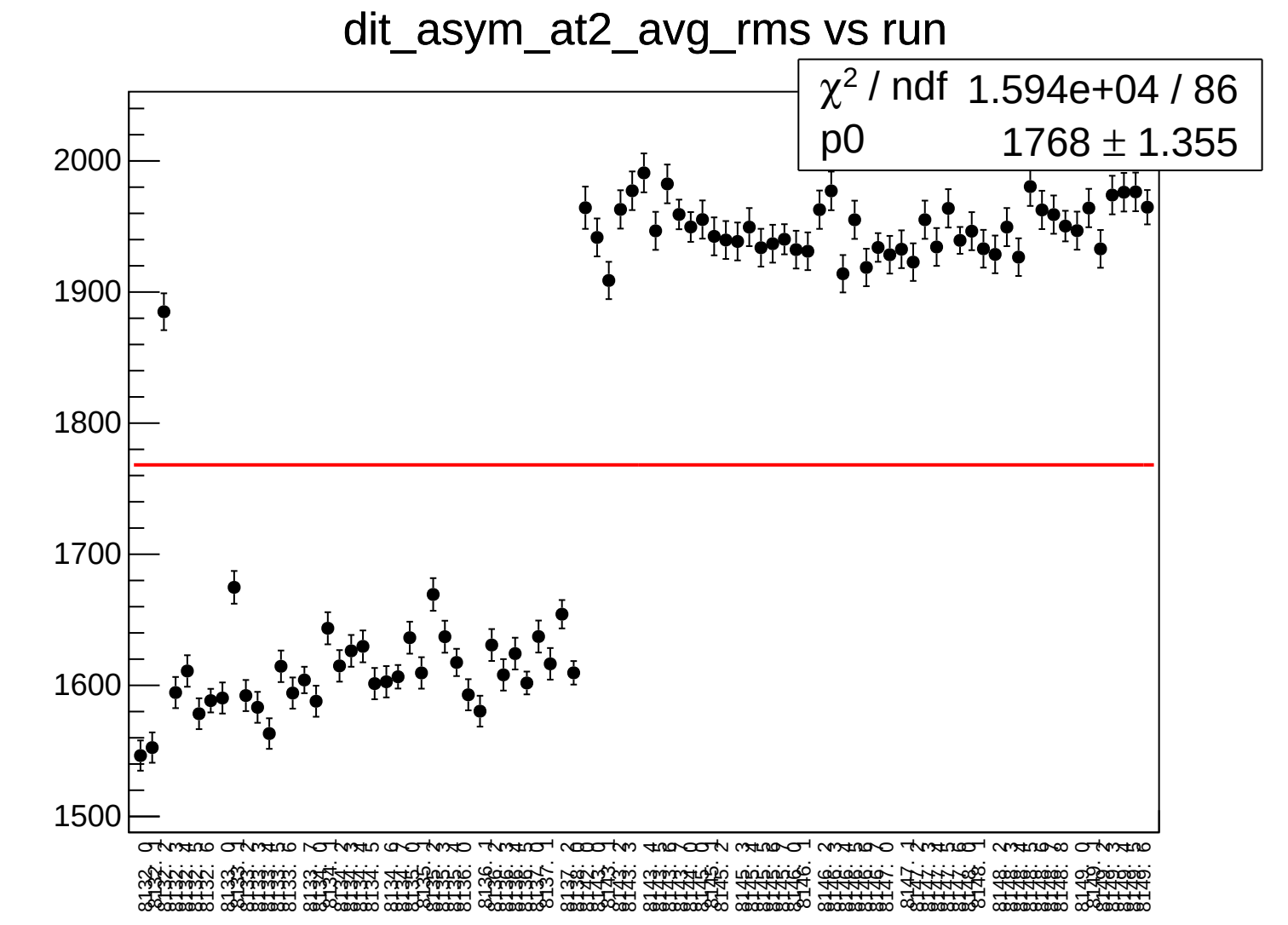

asym_at2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 92.94 / 86
p0 4982 ± 1.125e+04
pull
Entries 87
Mean 685.9
Std Dev 0

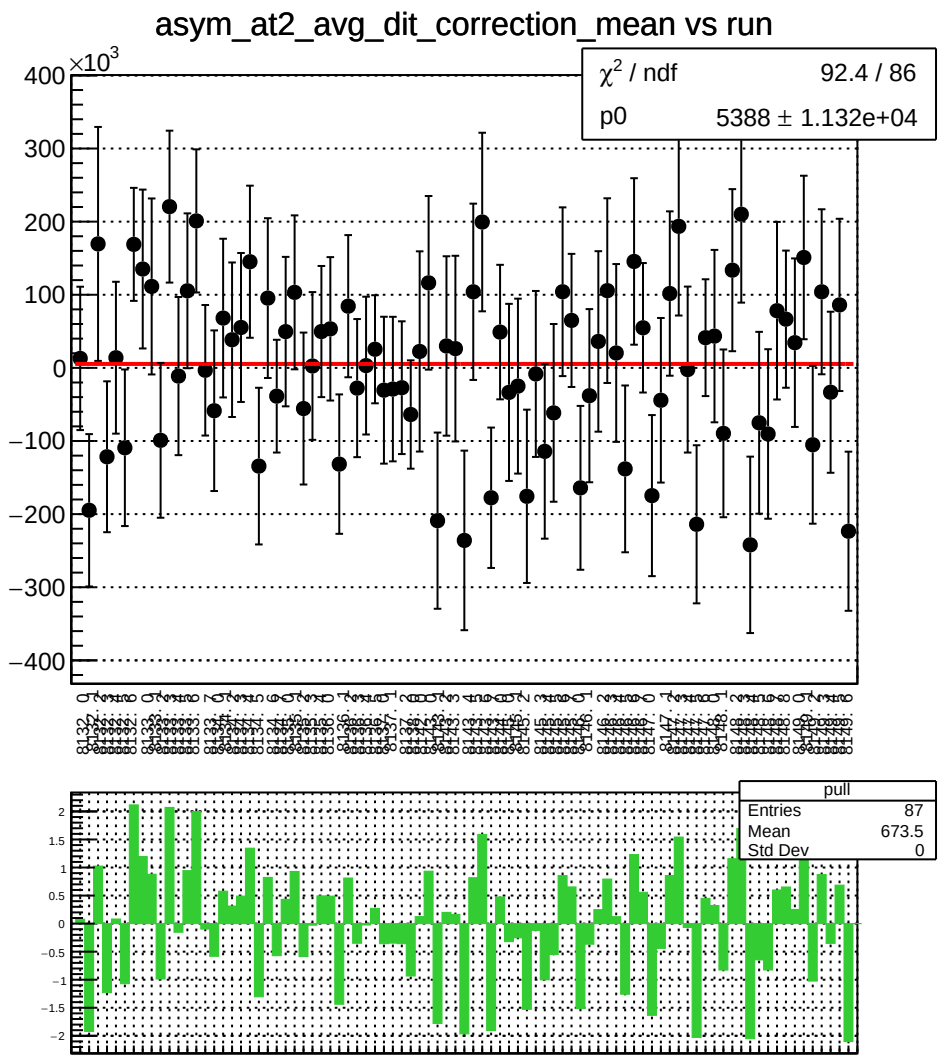

pull1D
Entries 87
Mean −0.00425
Std Dev 1.034

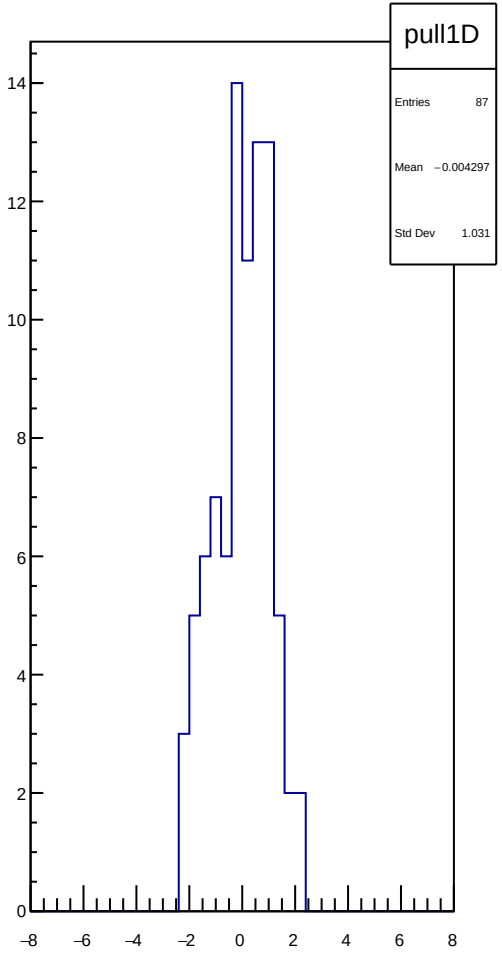

asym_at2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.199e+04 / 86
p0 1.039e+04 ± 7.957
15000
14000
13000
12000
11000
10000
9000

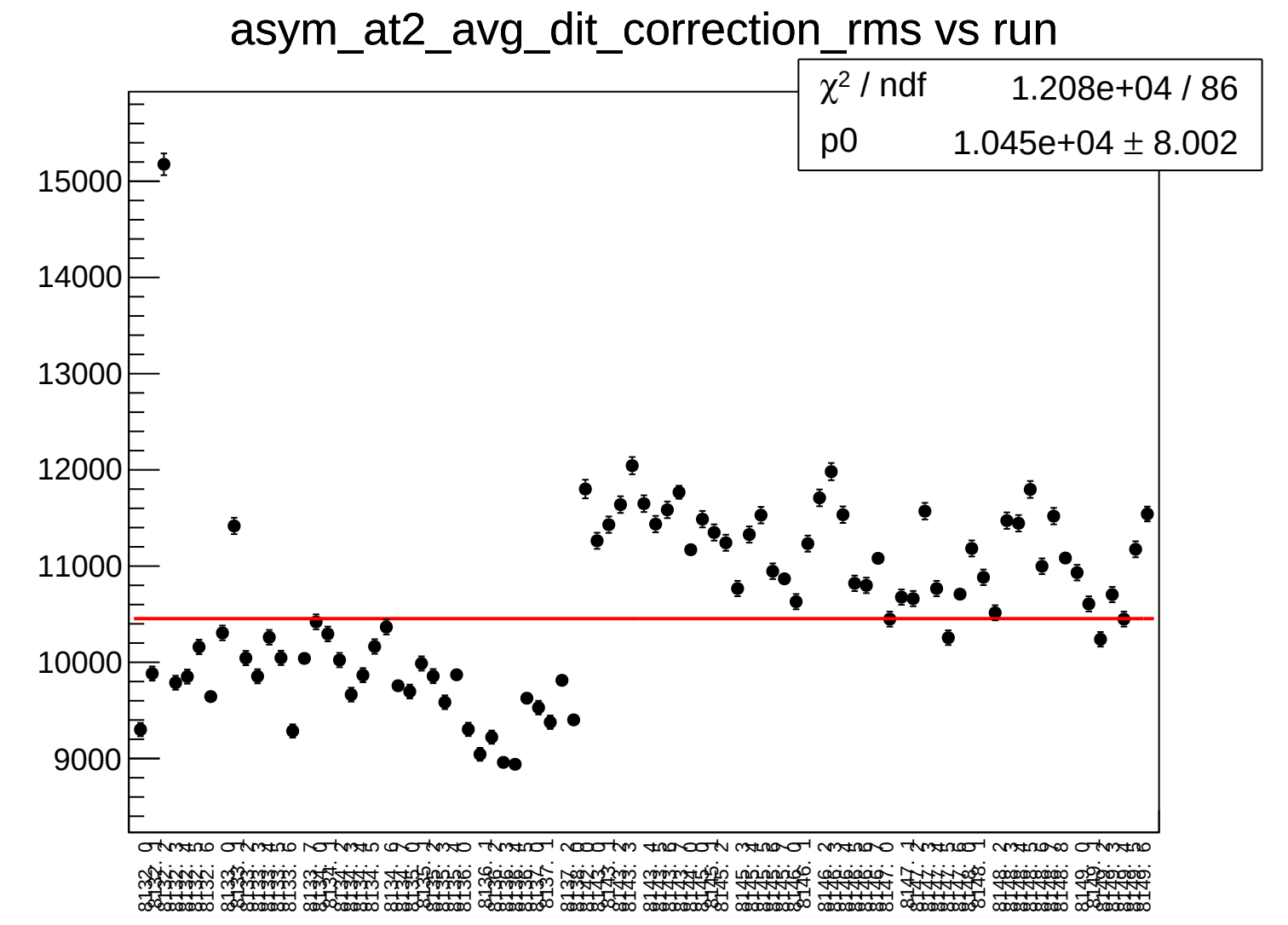

dit_asym_at2_avg_mean vs run
χ² / ndf 71.02 / 86
p0 3739 ± 1916
pull
Entries 87
Mean 102.9
Std Dev 0

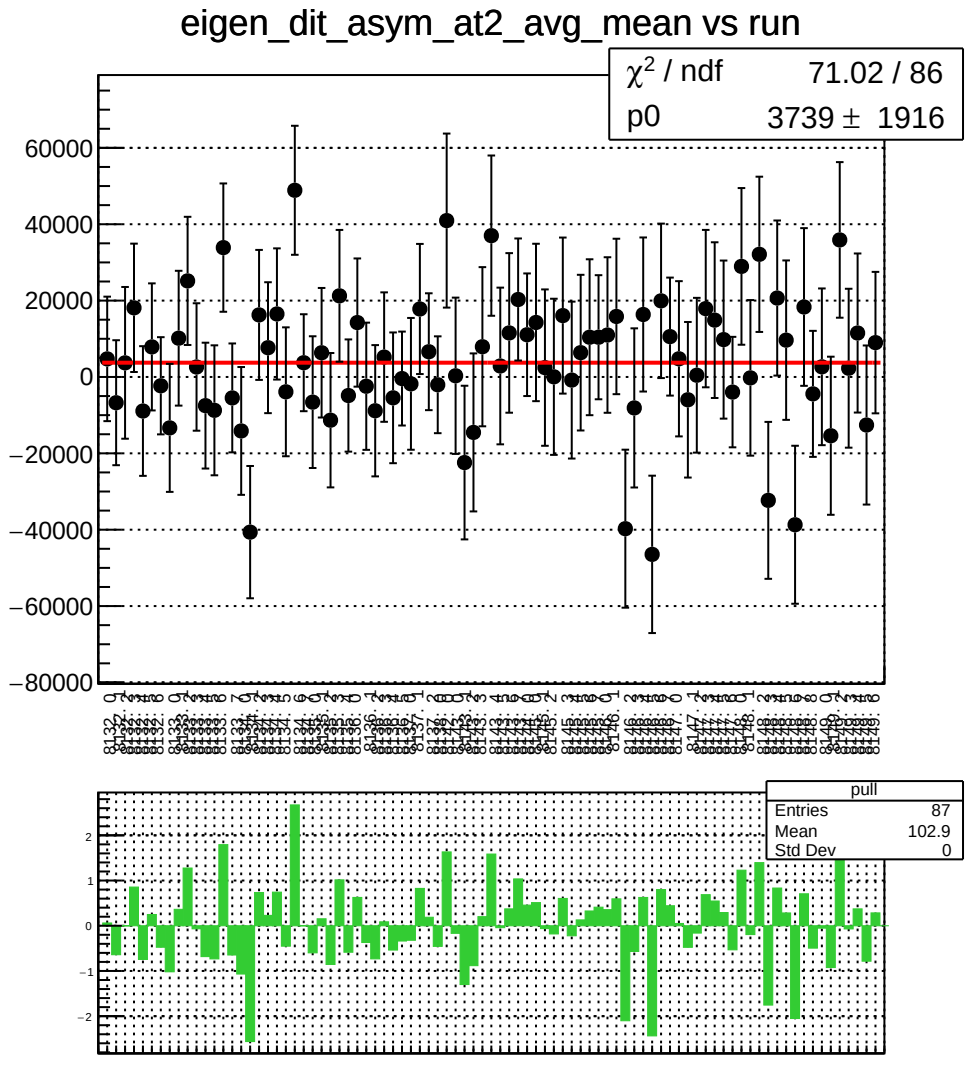

pull1D
Entries 87
Mean 0.01002
Std Dev 0.9035

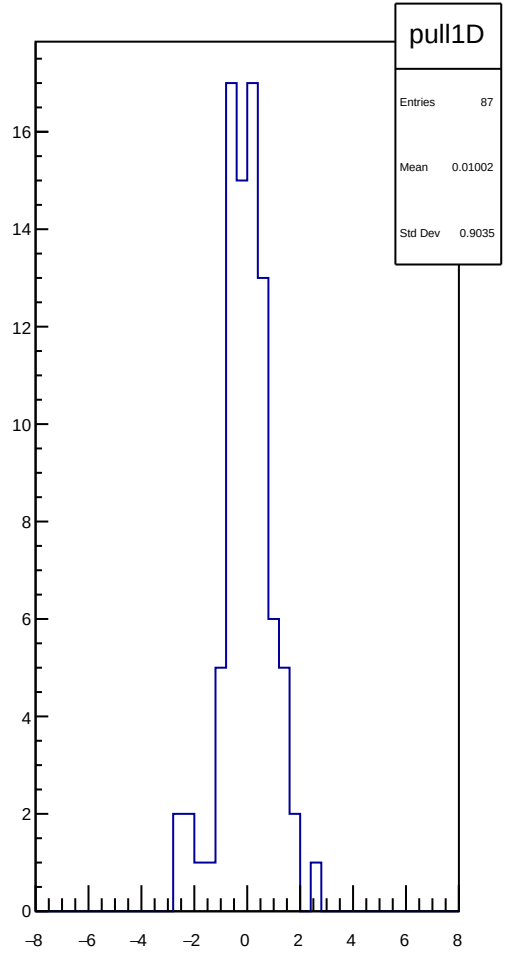

dit_asym_at2_avg_rms vs run
χ² / ndf 1.594e+04 / 86
p0 1768 ± 1.355
2000
1900
1800
1700
1600
1500

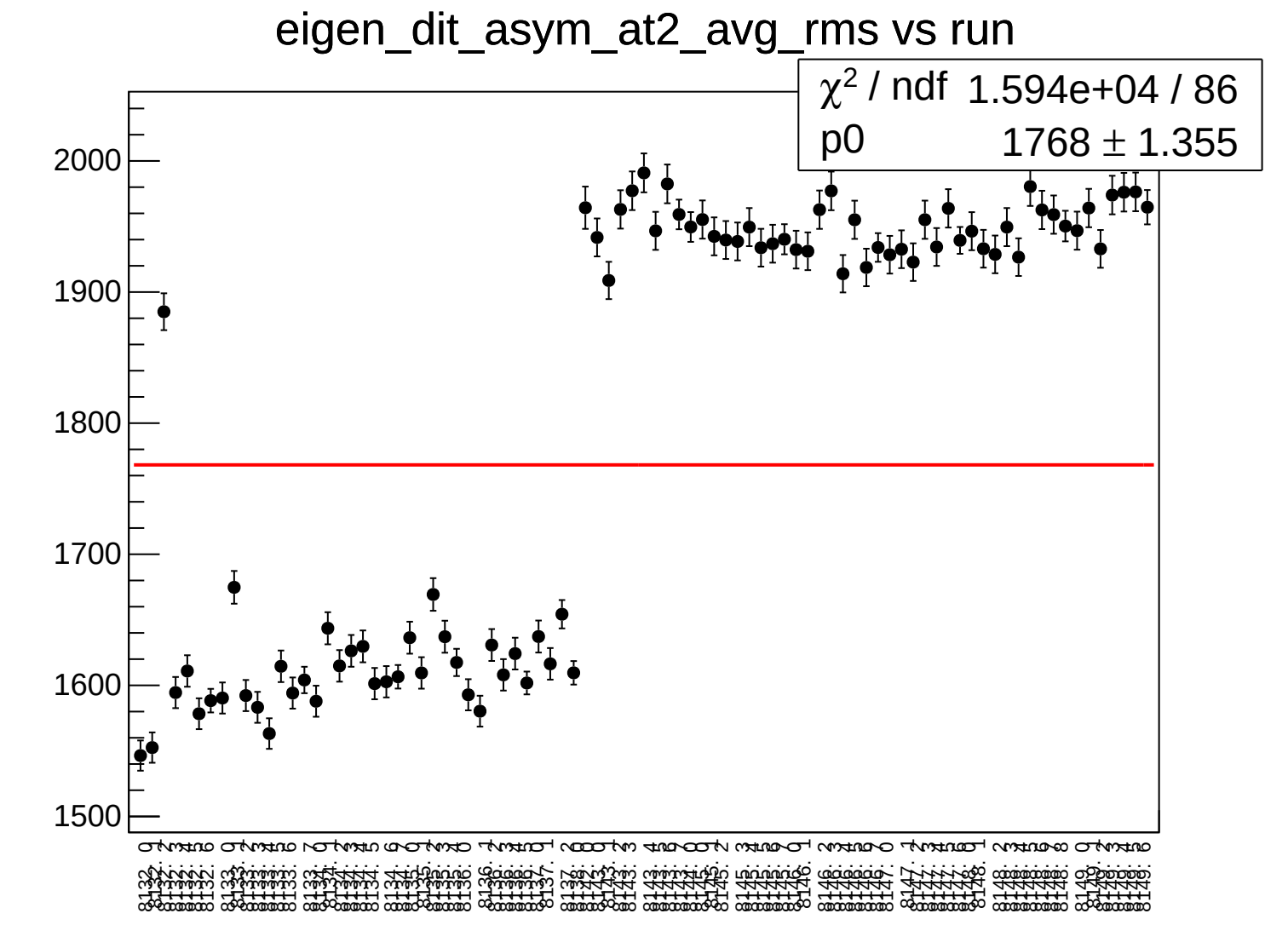

asym_at2_avg_dit_correction_mean vs run
χ² / ndf 92.4 / 86
p0 5388 ± 1.132e+04
×10³
pull
Entries 87
Mean 673.5
Std Dev 0

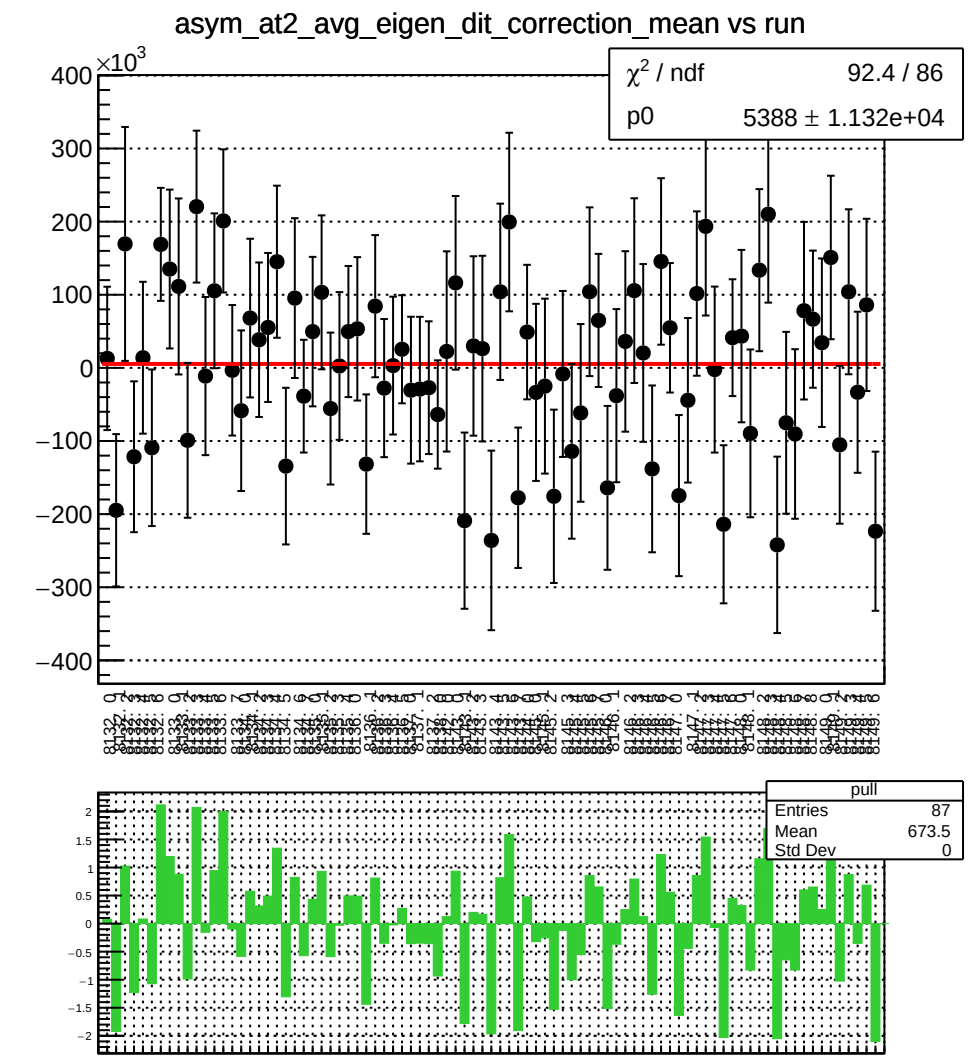

pull1D
Entries 87
Mean −0.004297
Std Dev 1.031

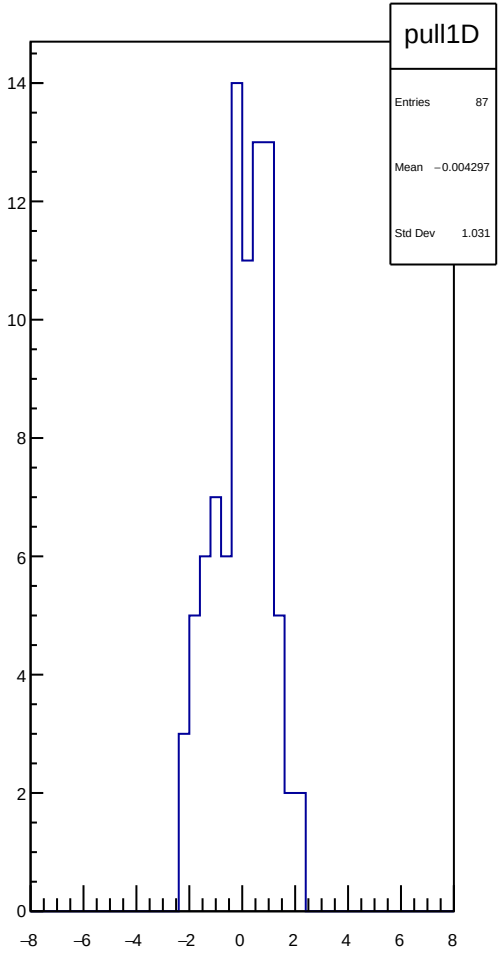

asym_at2_avg_dit_correction_rms vs run
χ² / ndf 1.208e+04 / 86
p0 1.045e+04 ± 8.002
15000
14000
13000
12000
11000
10000
9000

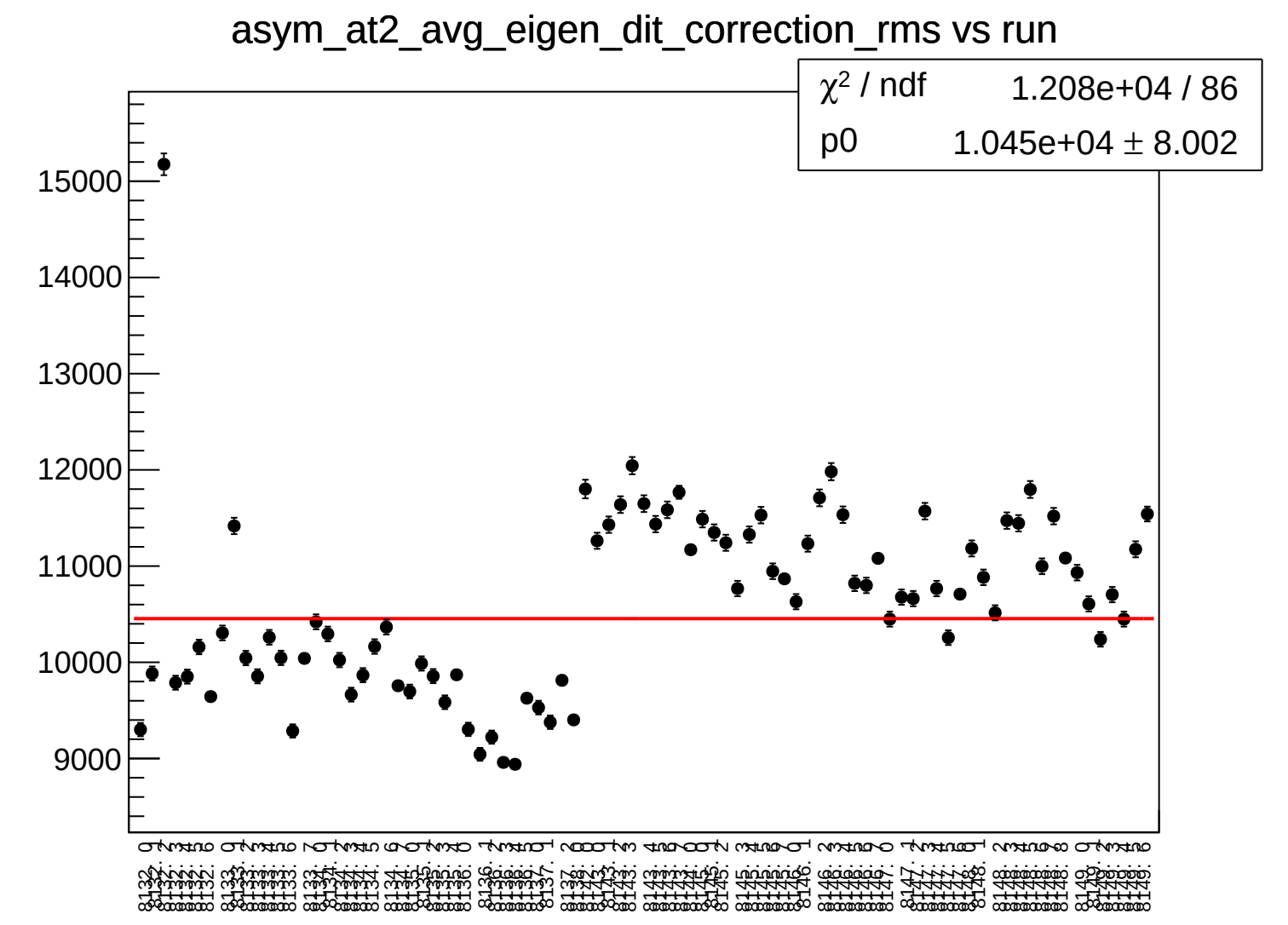

eigen_dit_asym_at2_avg_mean vs run
χ² / ndf 71.02 / 86
p0 3739 ± 1916
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean 102.9
Std Dev 0
2
1
0
−1
−2

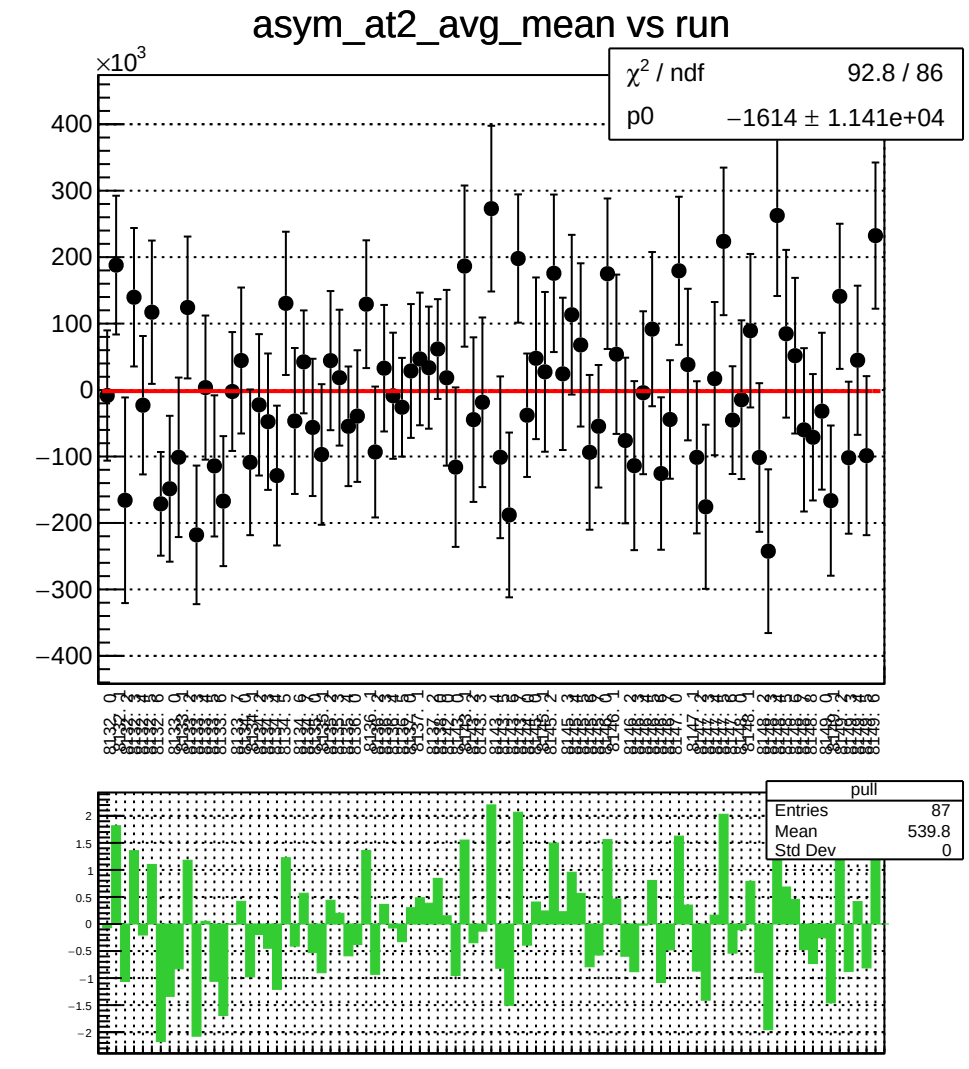

pull1D
Entries 87
Mean 0.01002
Std Dev 0.9035
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

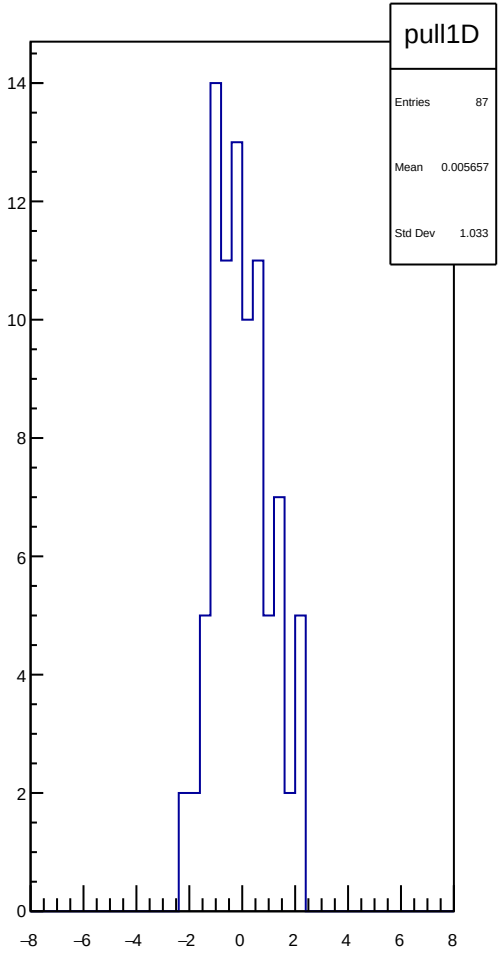

eigen_dit_asym_at2_avg_rms vs run
χ² / ndf 1.594e+04 / 86
p0 1768 ± 1.355
2000
1900
1800
1700
1600
1500

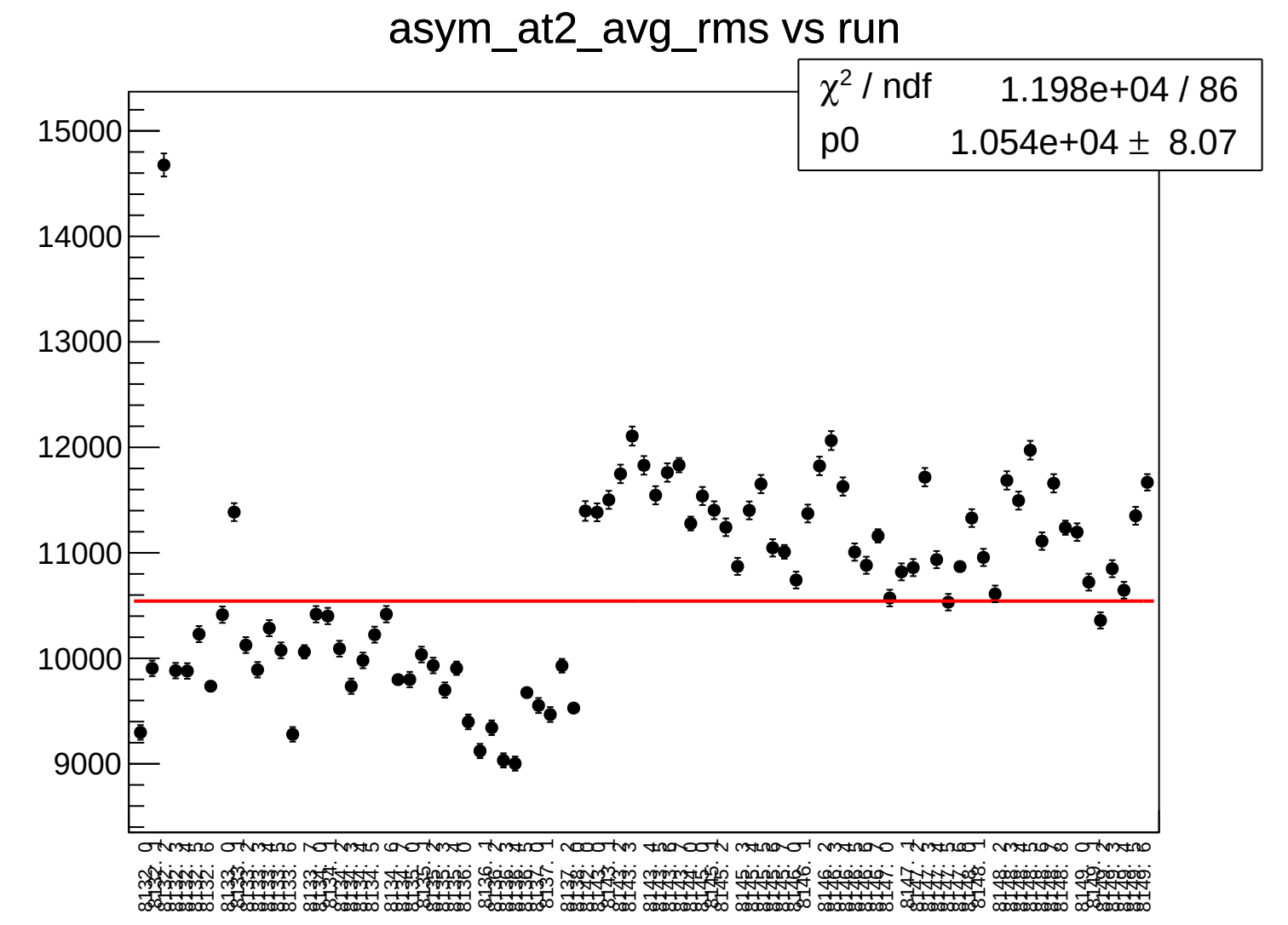

asym_at2_avg_eigen_dit_correction_mean vs run
χ² / ndf 92.4 / 86
p0 5388 ± 1.132e+04
×10³
pull
Entries 87
Mean 673.5
Std Dev 0

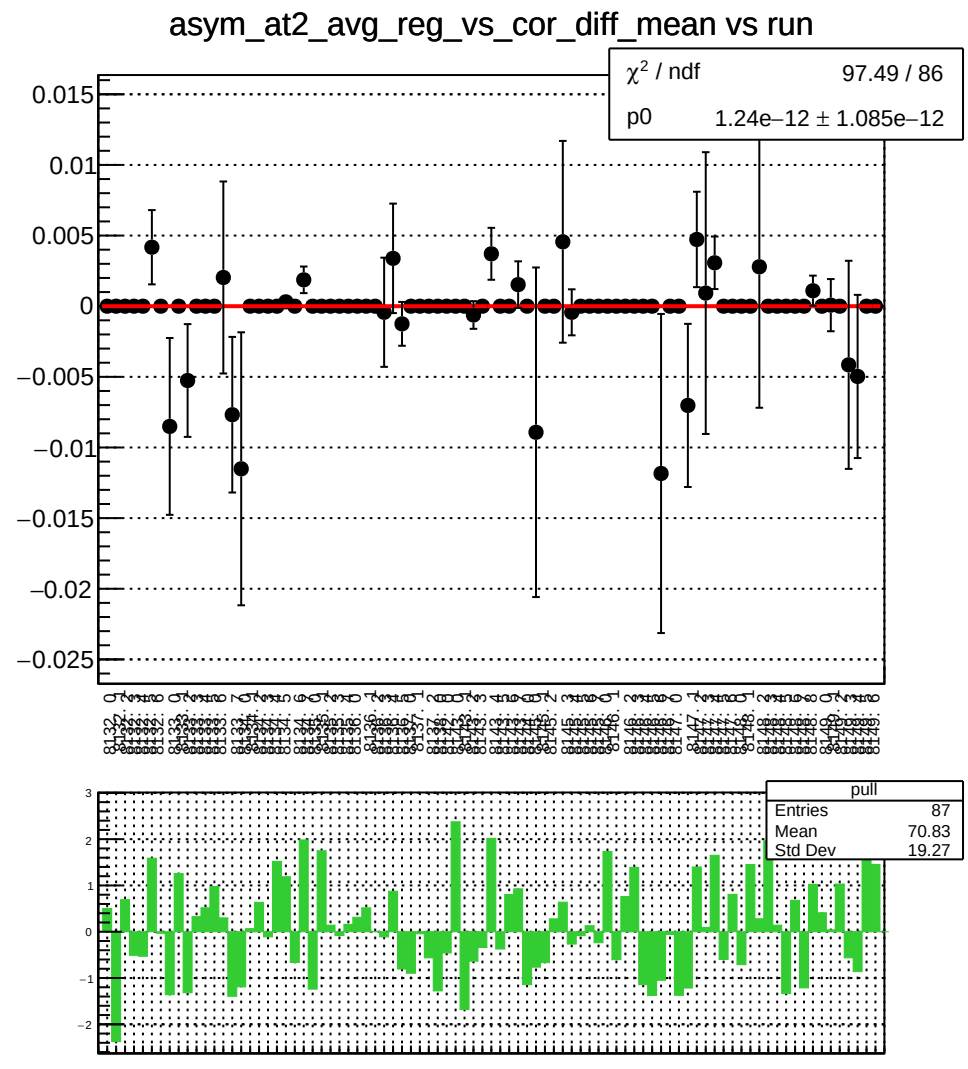

pull1D
Entries 87
Mean −0.004297
Std Dev 1.031

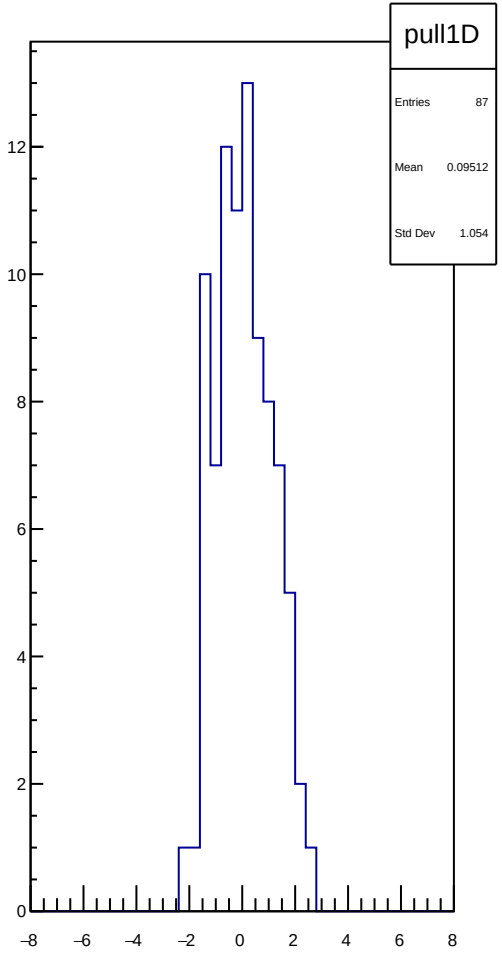

asym_at2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.208e+04 / 86
p0 1.045e+04 ± 8.002
15000
14000
13000
12000
11000
10000
9000

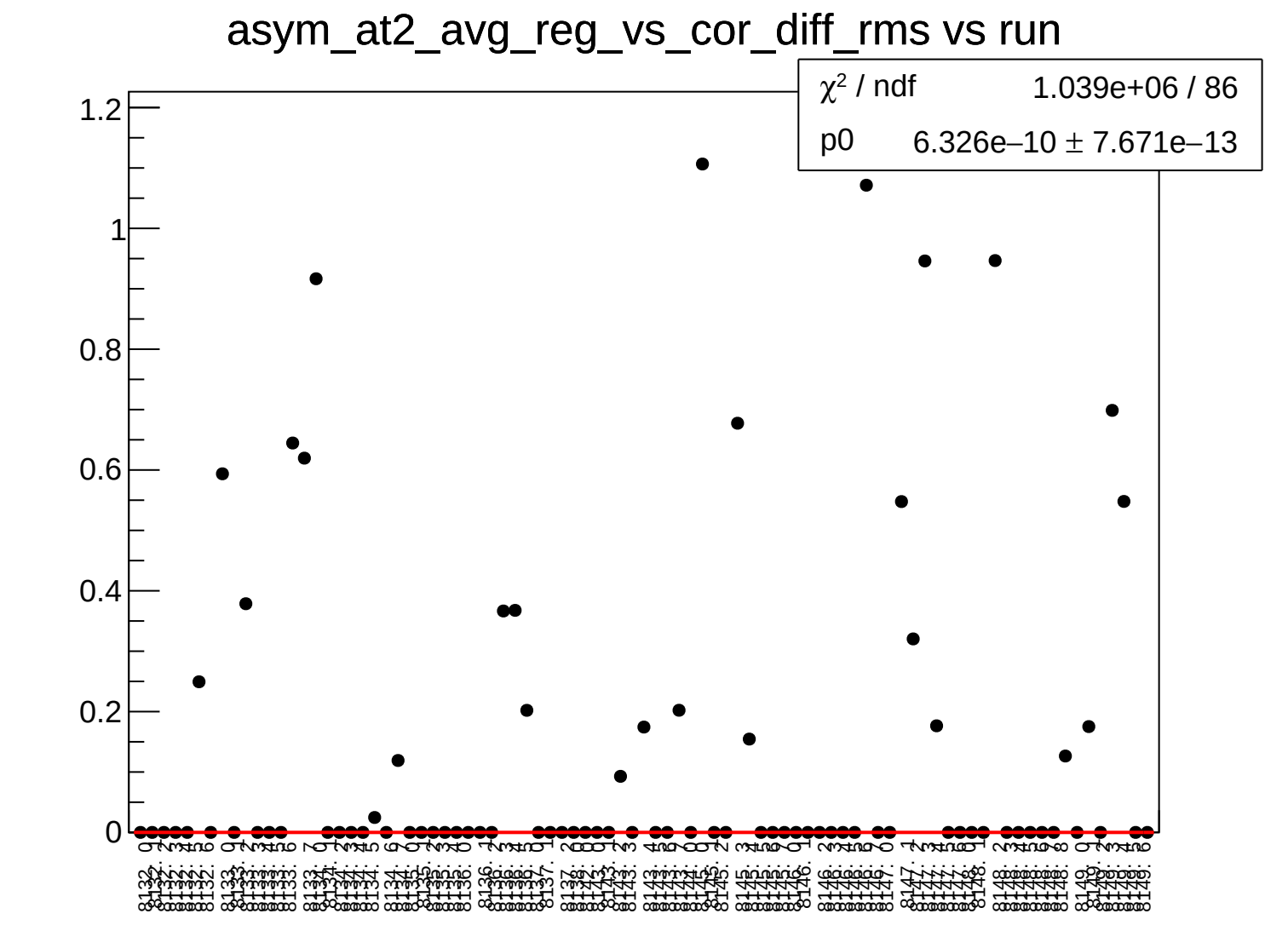

asym_at2_avg_mean vs run
×10^3
χ² / ndf 92.8 / 86
p0 −1614 ± 1.141e+04
pull
Entries 87
Mean 539.8
Std Dev 0

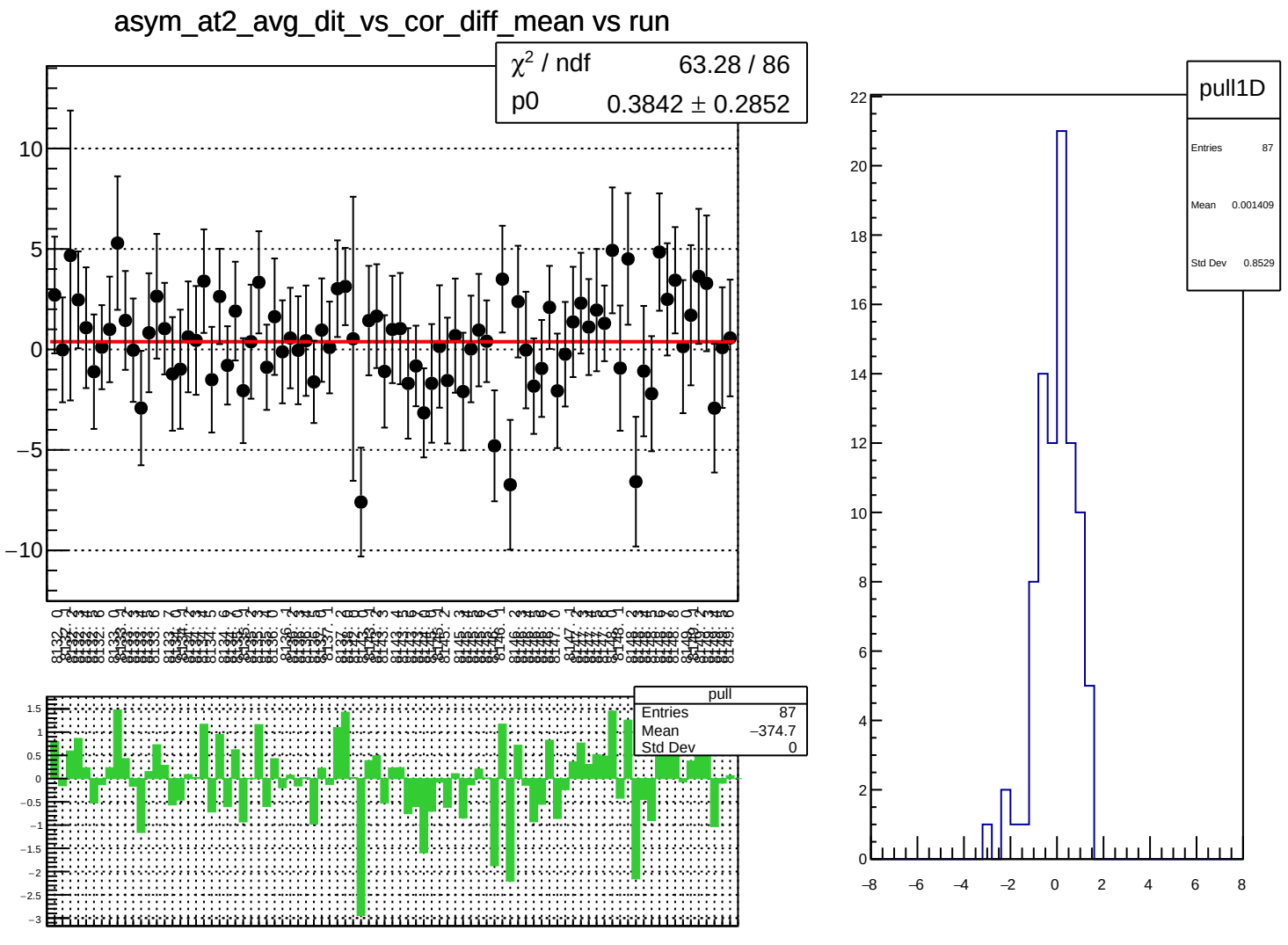

pull1D
Entries 87
Mean 0.005657
Std Dev 1.033

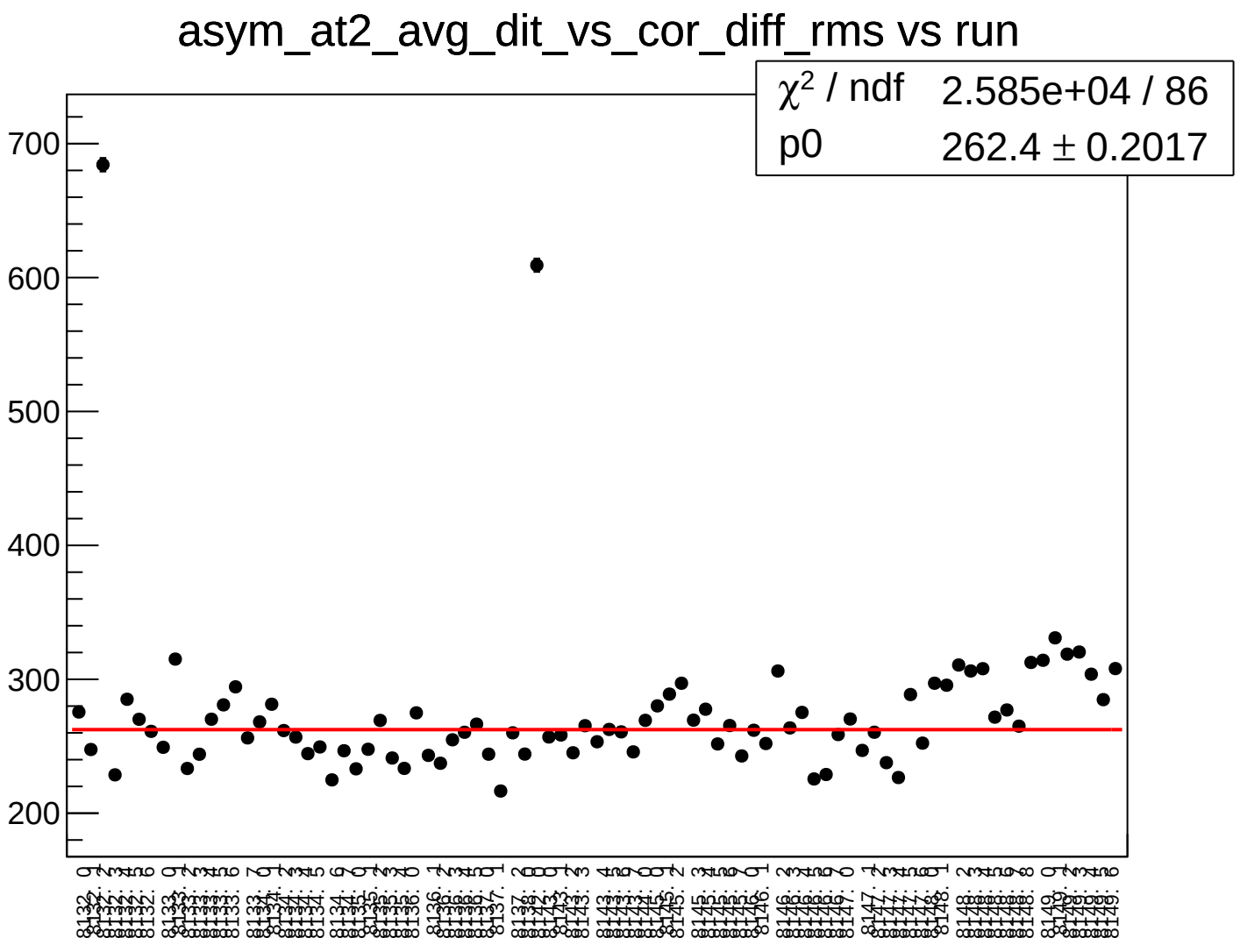

asym_at2_avg_rms vs run
χ^2 / ndf 1.198e+04 / 86
p0 1.054e+04 ± 8.07
15000
14000
13000
12000
11000
10000
9000

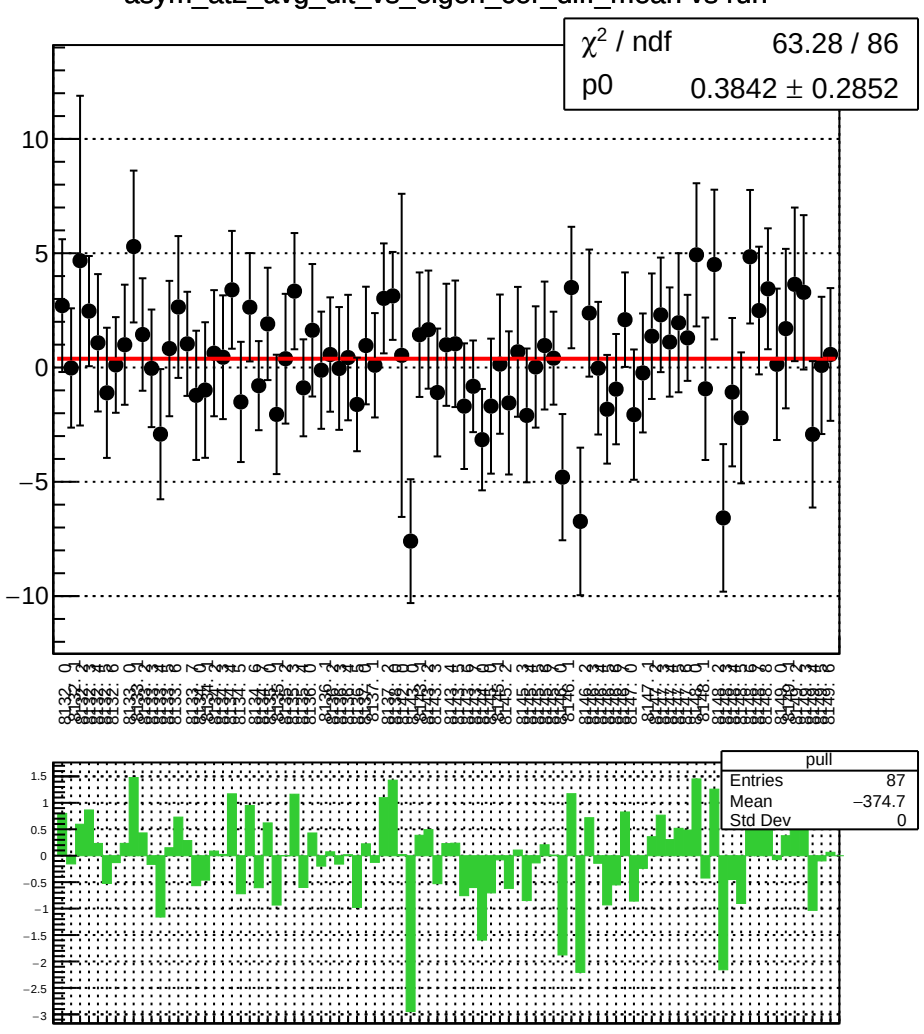

asym_at2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 97.49 / 86
p0 1.24e−12 ± 1.085e−12
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
−0.025
pull
Entries 87
Mean 70.83
Std Dev 19.27
3
2
1
0
−1
−2

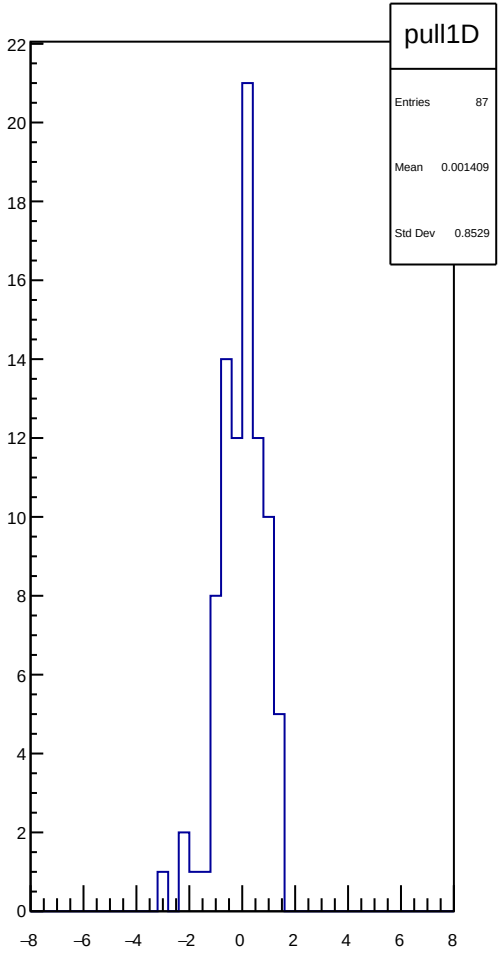

pull1D
Entries 87
Mean 0.09512
Std Dev 1.054
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

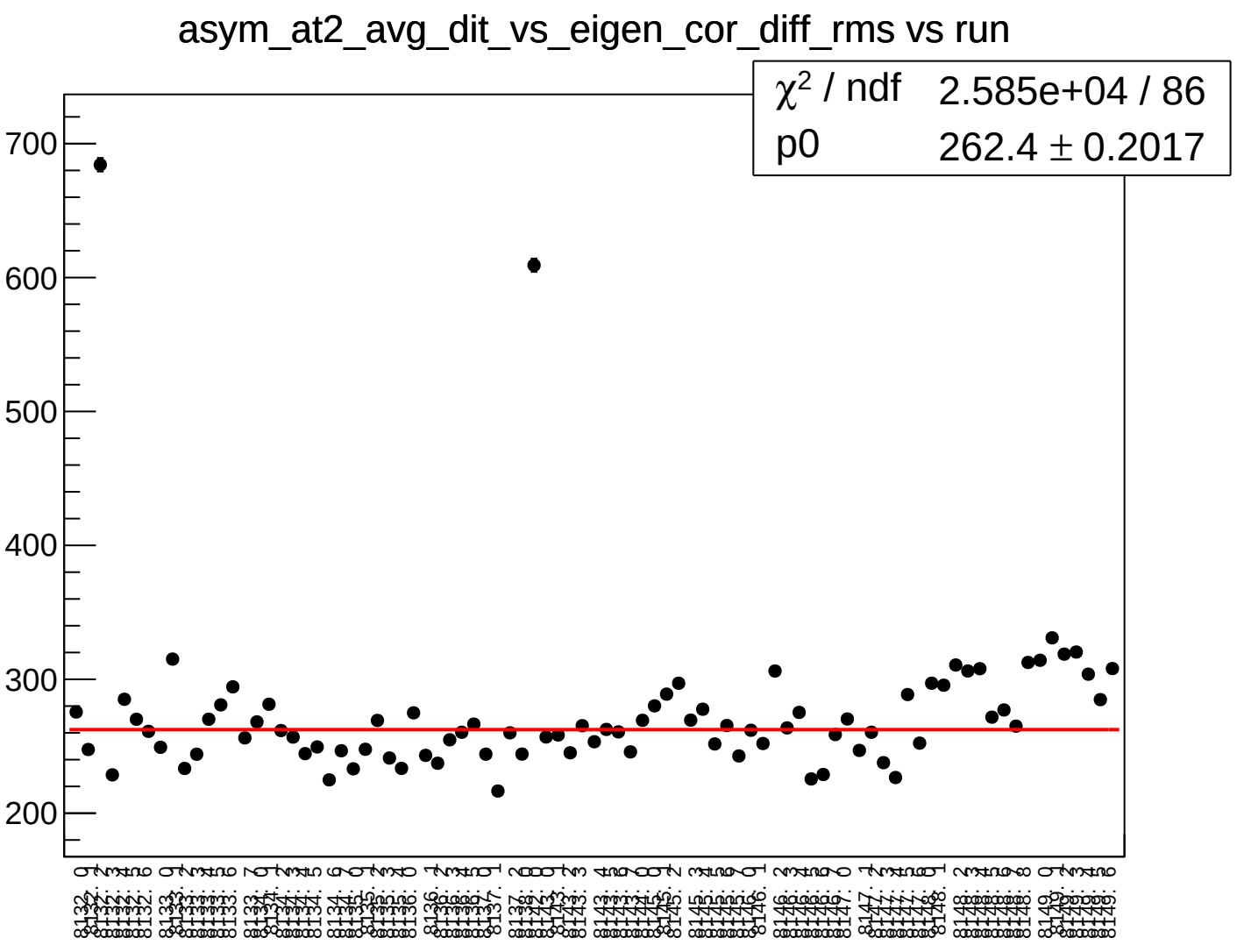

asym_at2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.039e+06 / 86
p0 6.326e−10 ± 7.671e−13
1.2
1
0.8
0.6
0.4
0.2
0

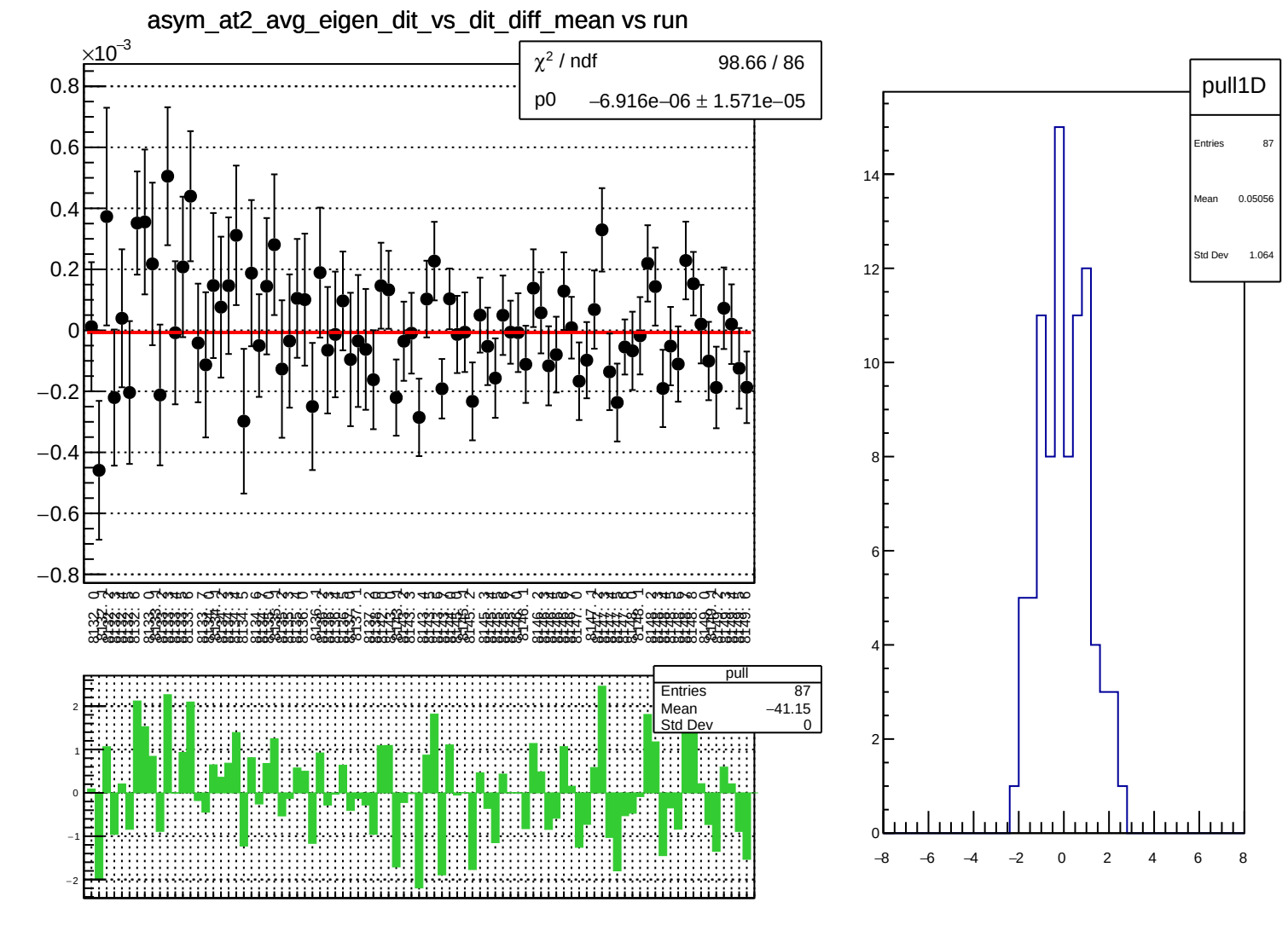

asym_at2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 63.28 / 86
p0 0.3842 ± 0.2852
pull
Entries 87
Mean −374.7
Std Dev 0
pull1D
Entries 87
Mean 0.001409
Std Dev 0.8529

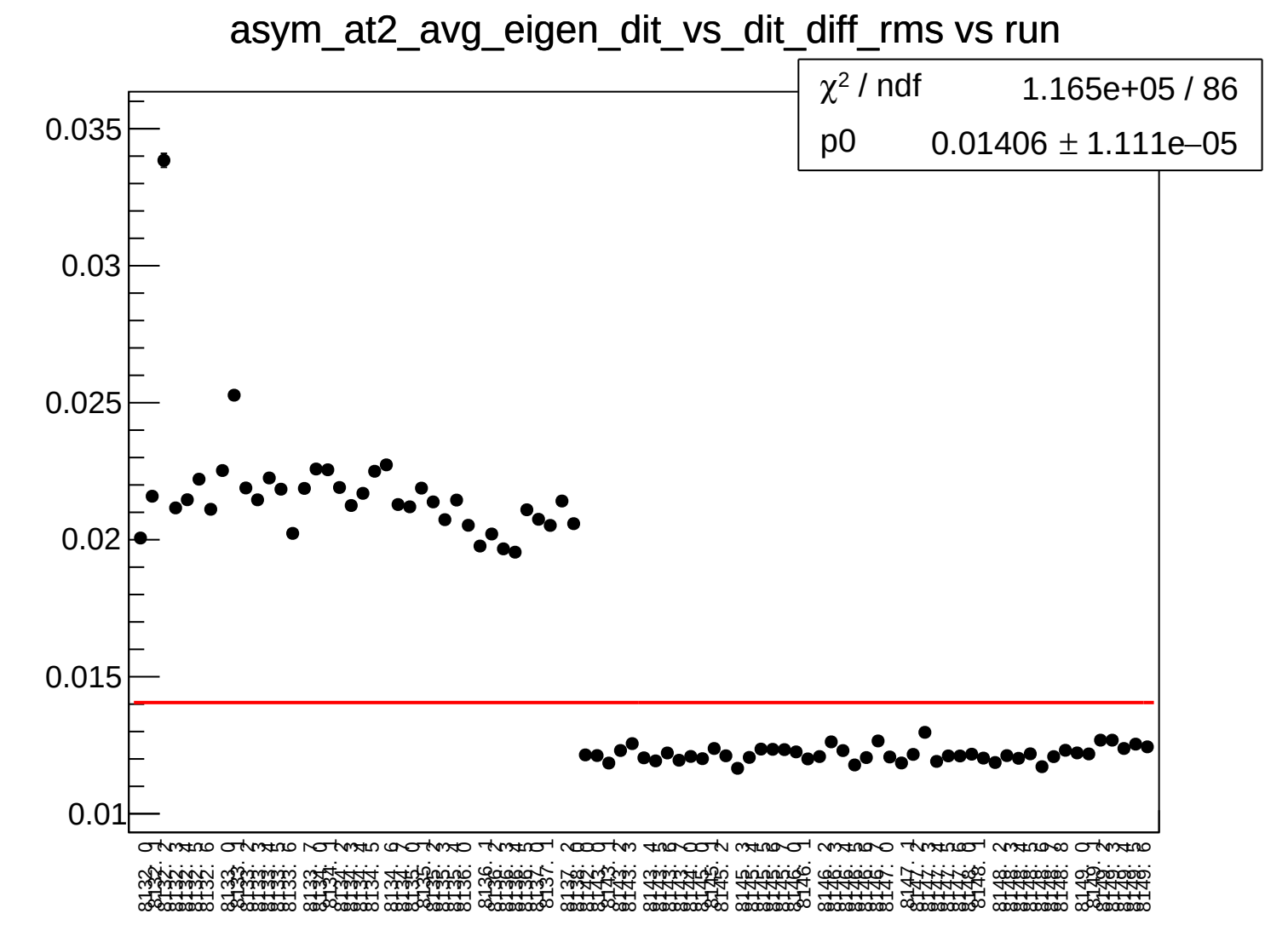

asym_at2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.585e+04 / 86
p0 262.4 ± 0.2017
700
600
500
400
300
200

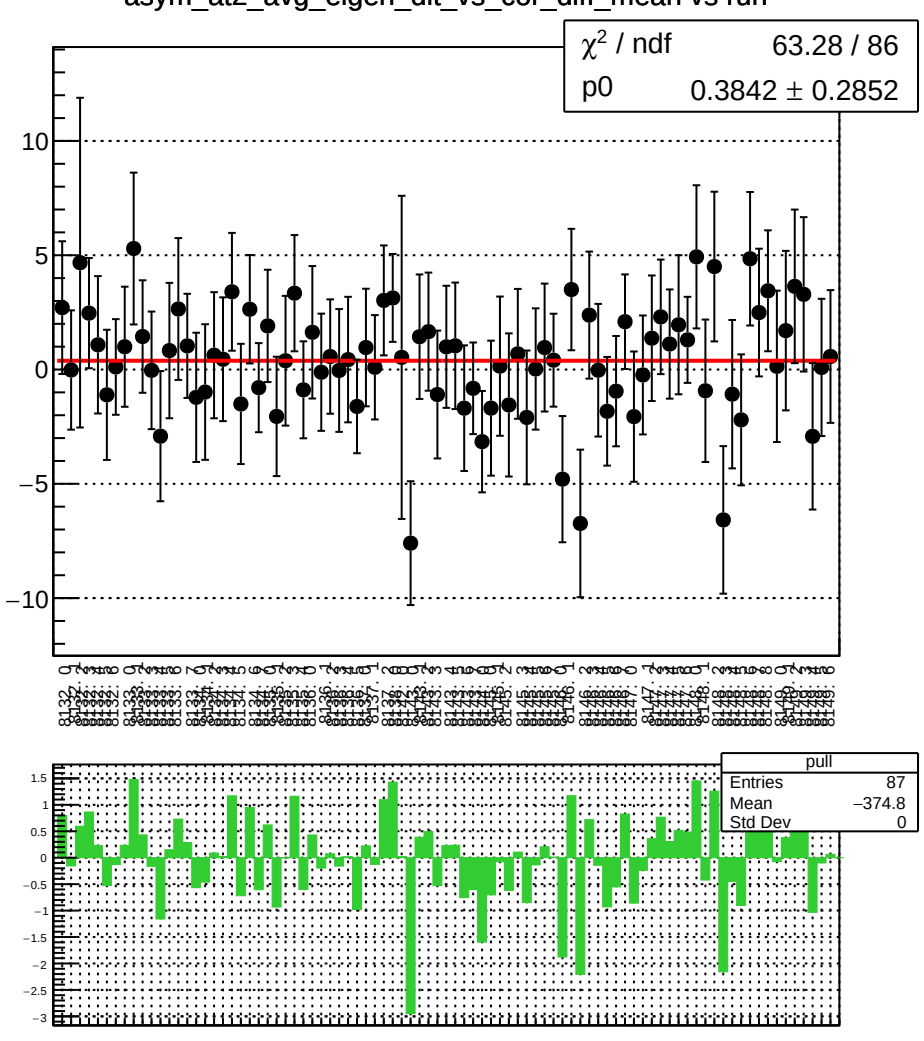

asym_at2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 63.28 / 86
p0 0.3842 ± 0.2852
pull
Entries 87
Mean −374.7
Std Dev 0

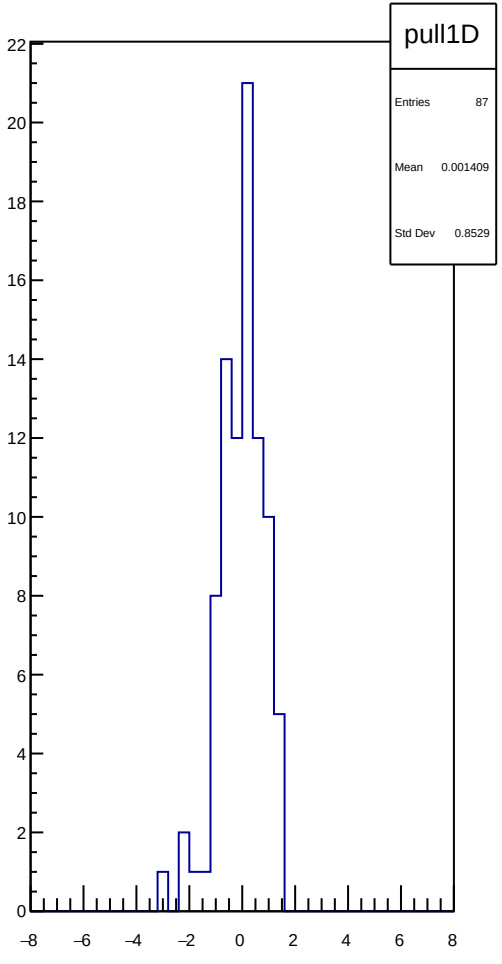

pull1D
Entries 87
Mean 0.001409
Std Dev 0.8529

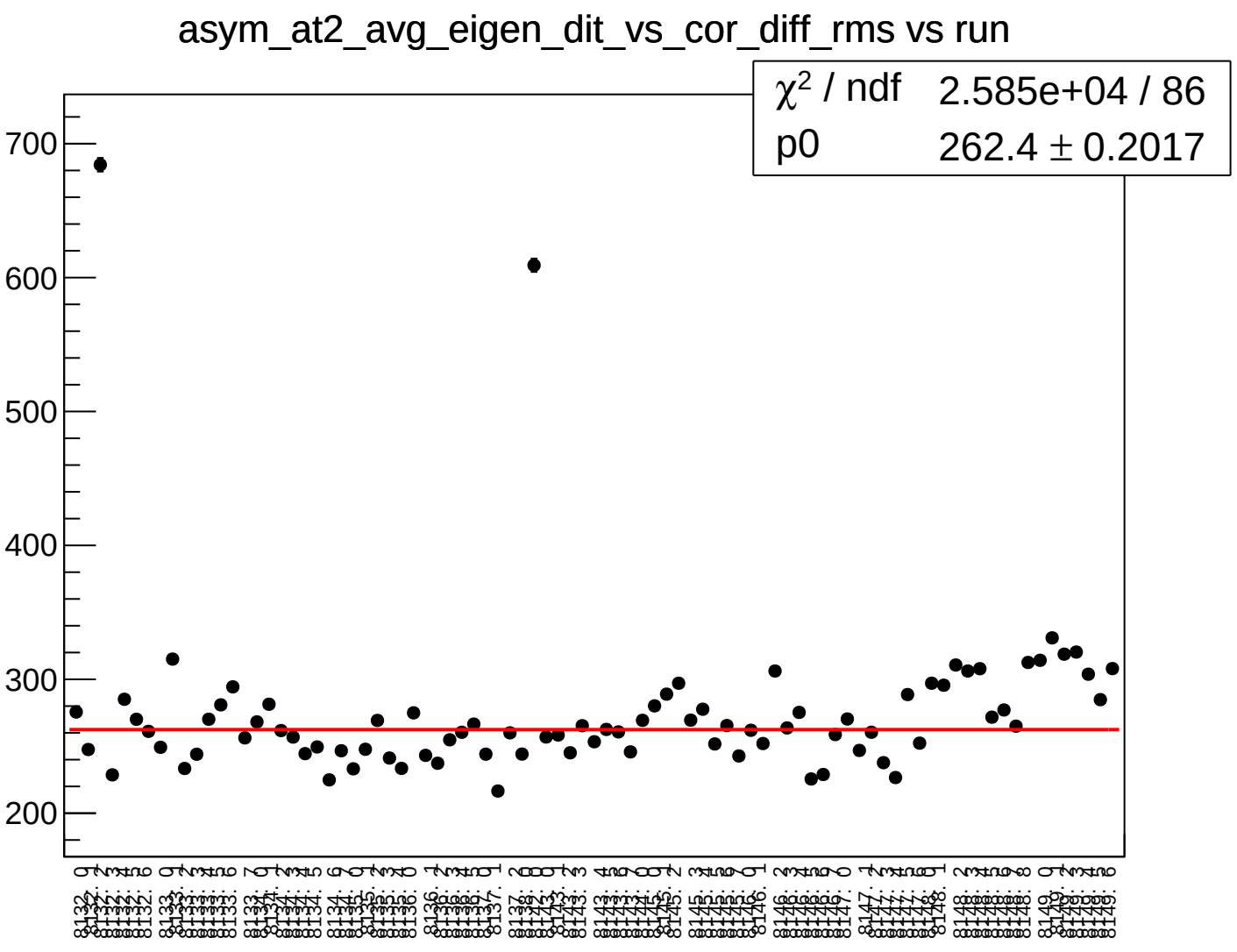

asym_at2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.585e+04 / 86
p0 262.4 ± 0.2017
700
600
500
400
300
200

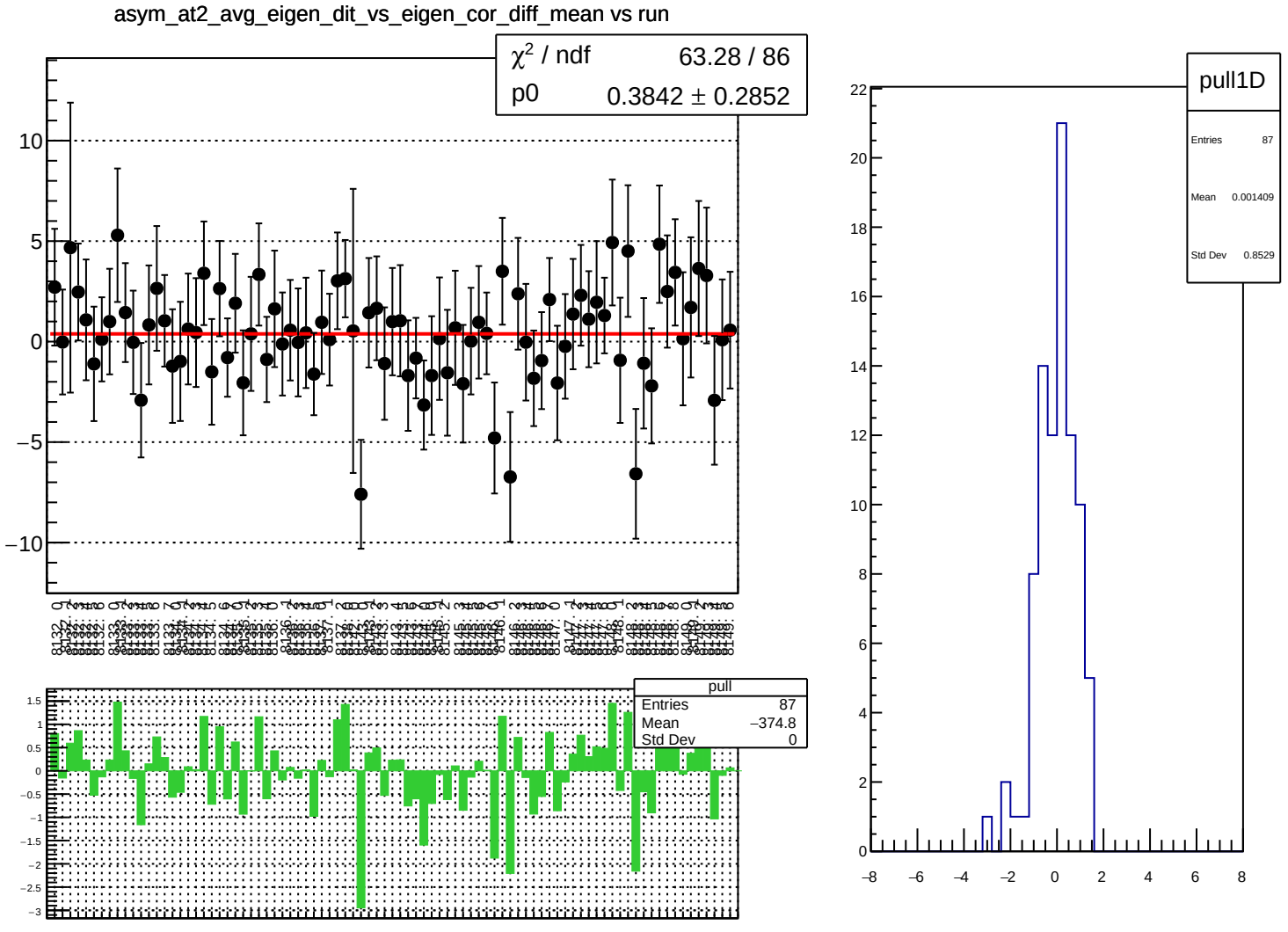

asym_at2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.66 / 86
p0 −6.916e−06 ± 1.571e−05
pull
Entries 87
Mean −41.15
Std Dev 0
pull1D
Entries 87
Mean 0.05056
Std Dev 1.064

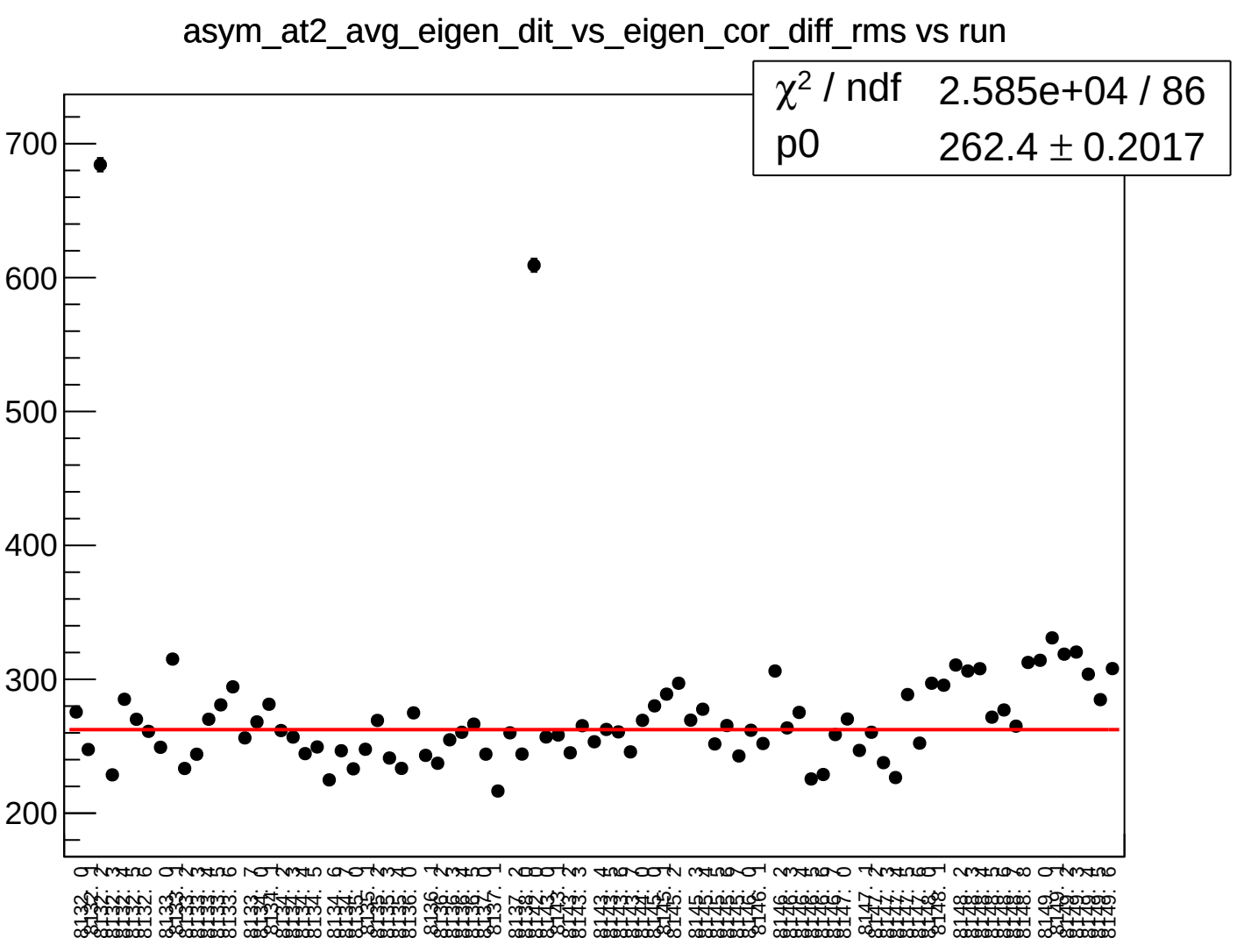

asym_at2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.165e+05 / 86
p0 0.01406 ± 1.111e–05
0.035
0.03
0.025
0.02
0.015
0.01

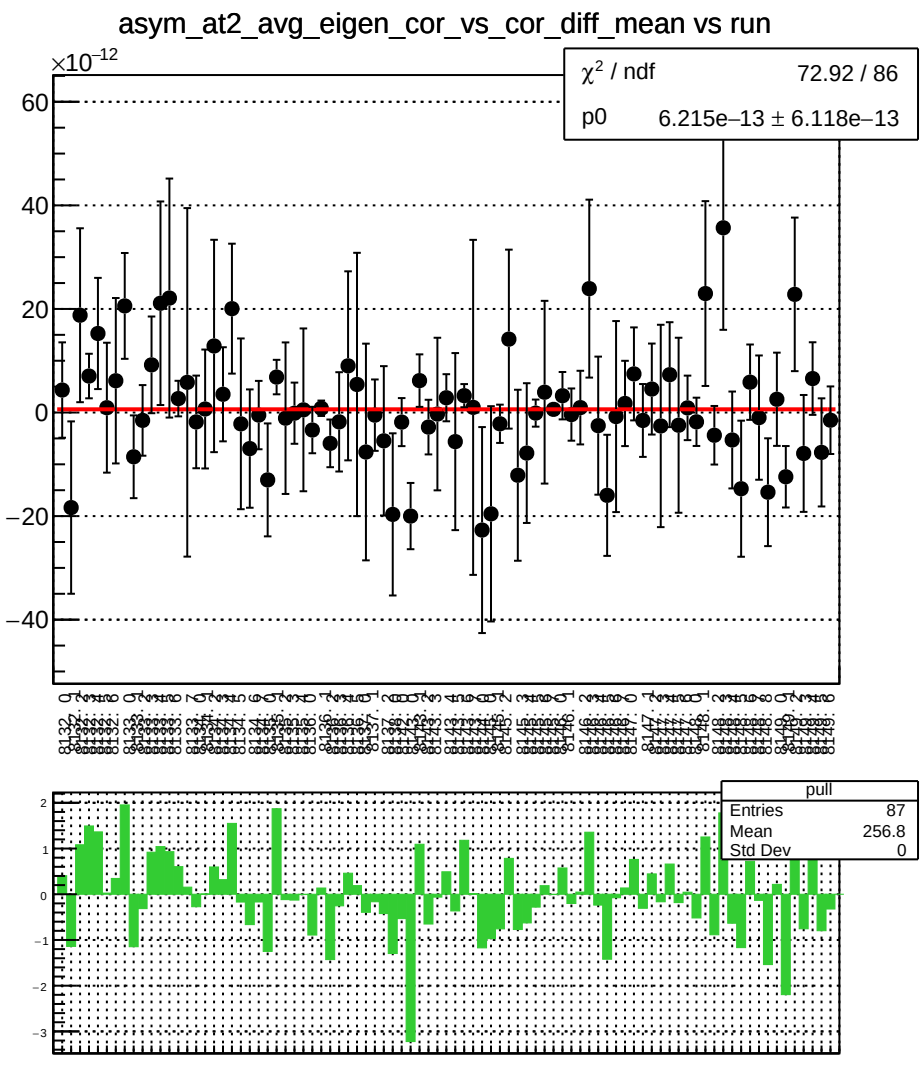

asym_at2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 63.28 / 86
p0 0.3842 ± 0.2852
pull
Entries 87
Mean −374.8
Std Dev 0

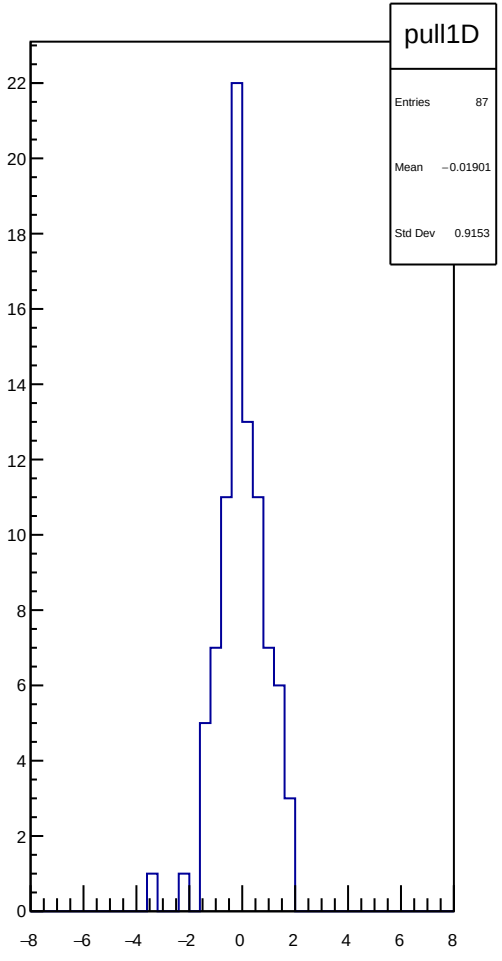

pull1D
Entries 87
Mean 0.001409
Std Dev 0.8529

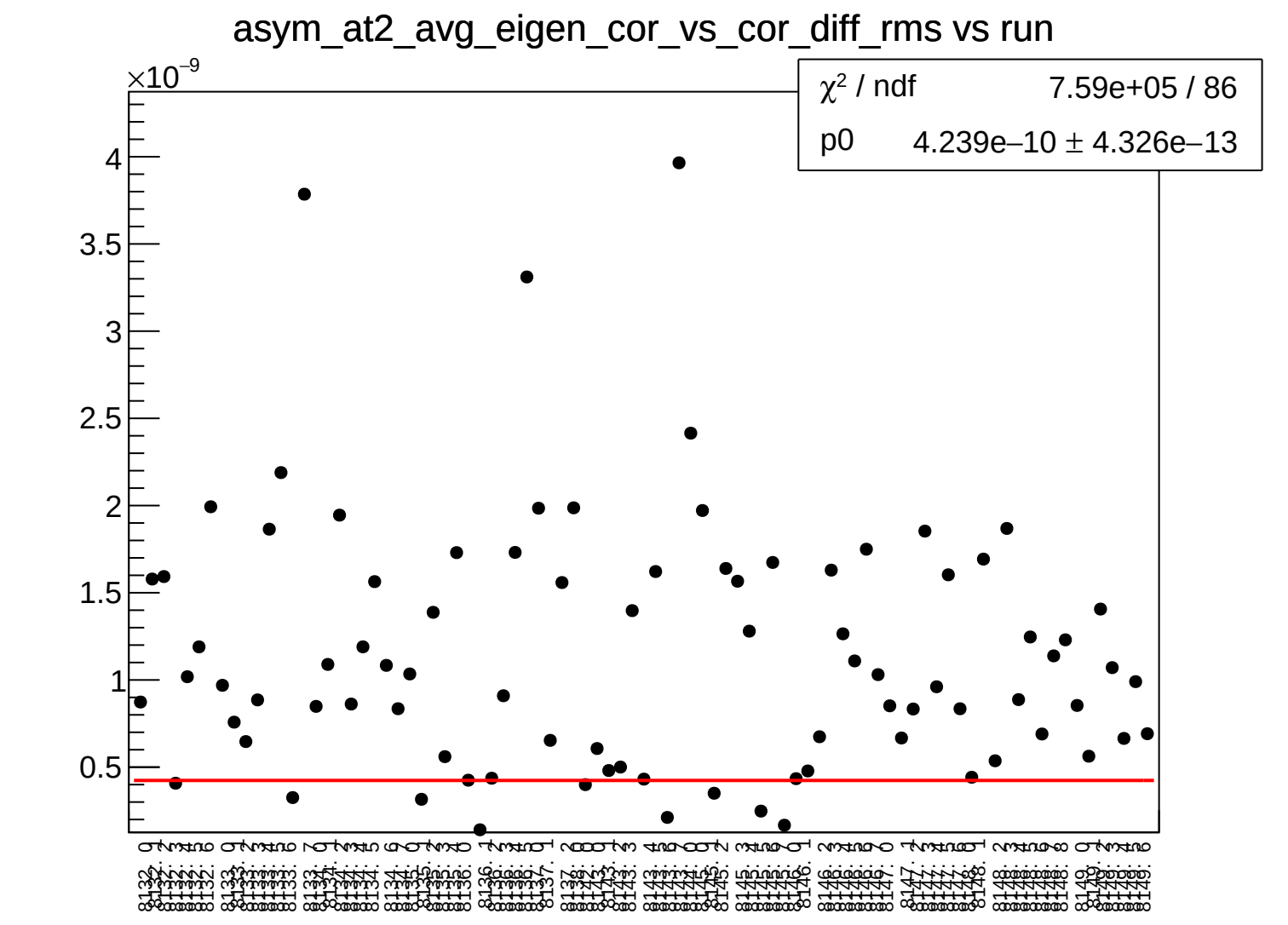

asym_at2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.585e+04 / 86
p0 262.4 ± 0.2017
700
600
500
400
300
200

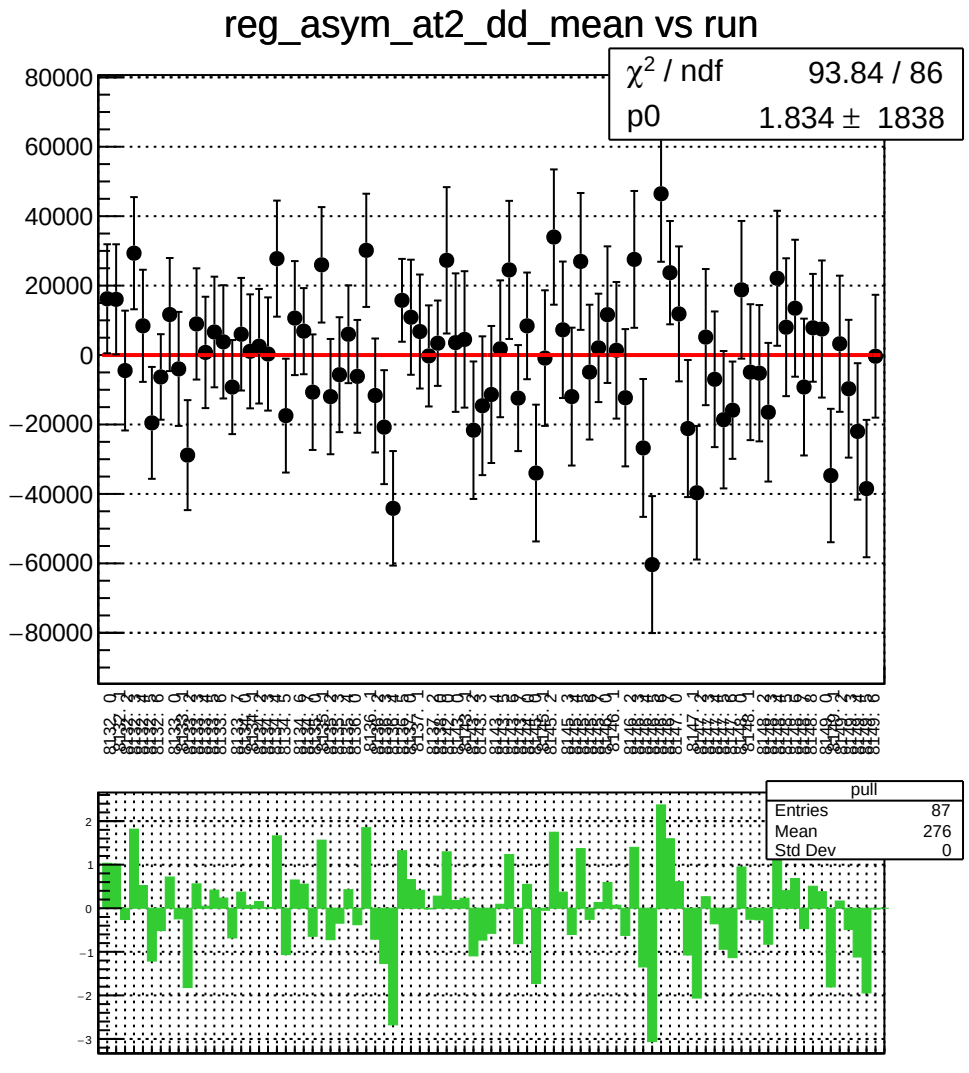

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 63.28 / 86
p0 0.3842 ± 0.2852
pull
Entries 87
Mean −374.8
Std Dev 0
pull1D
Entries 87
Mean 0.001409
Std Dev 0.8529

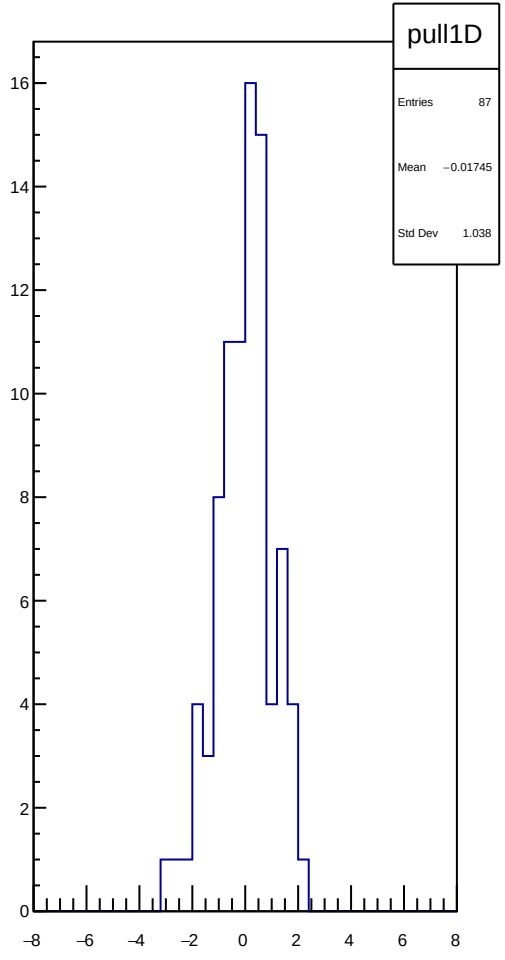

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.585e+04 / 86
p0 262.4 ± 0.2017
700
600
500
400
300
200

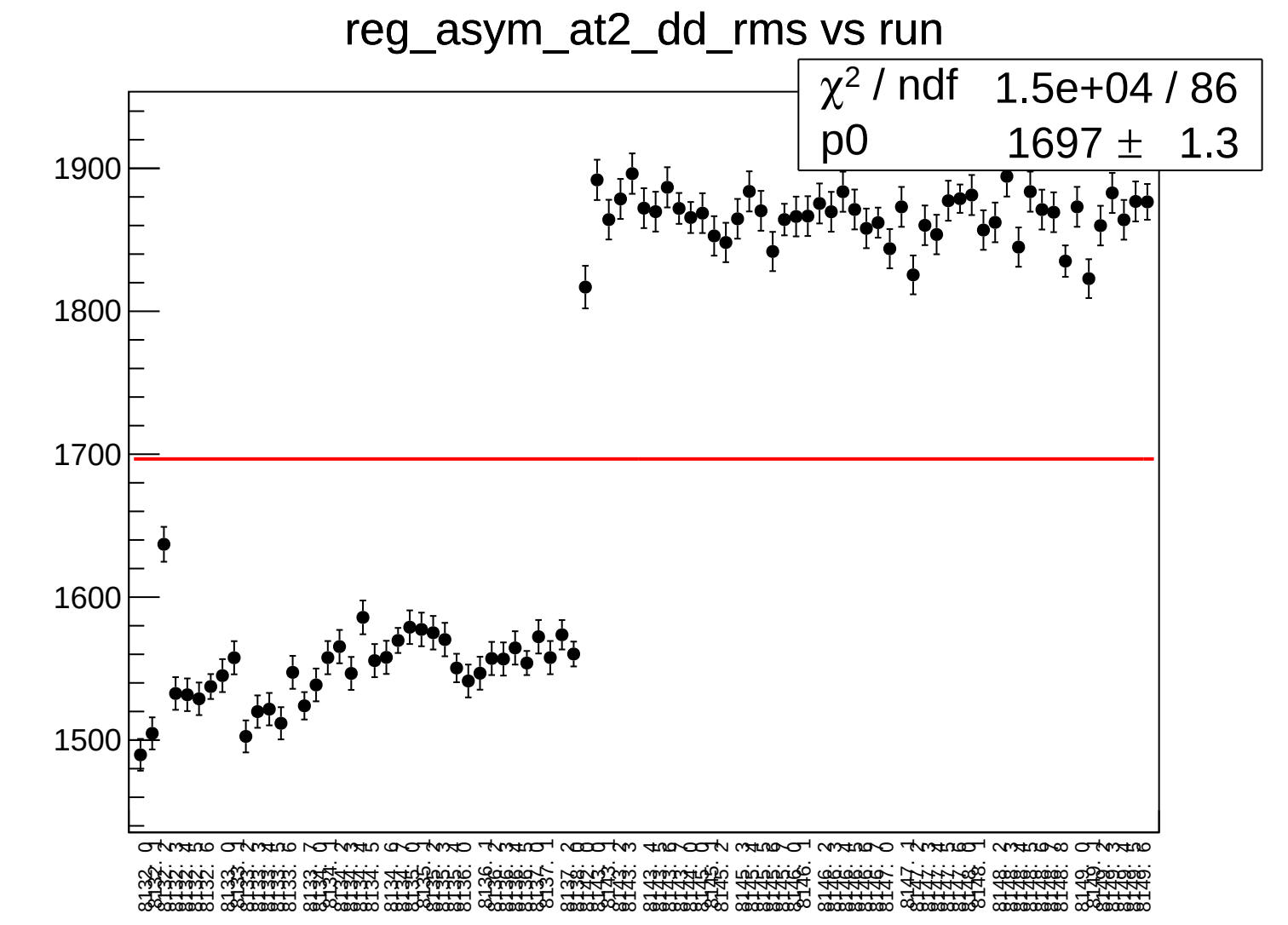

asym_at2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.92 / 86
p0 6.215e−13 ± 6.118e−13
pull
Entries 87
Mean 256.8
Std Dev 0

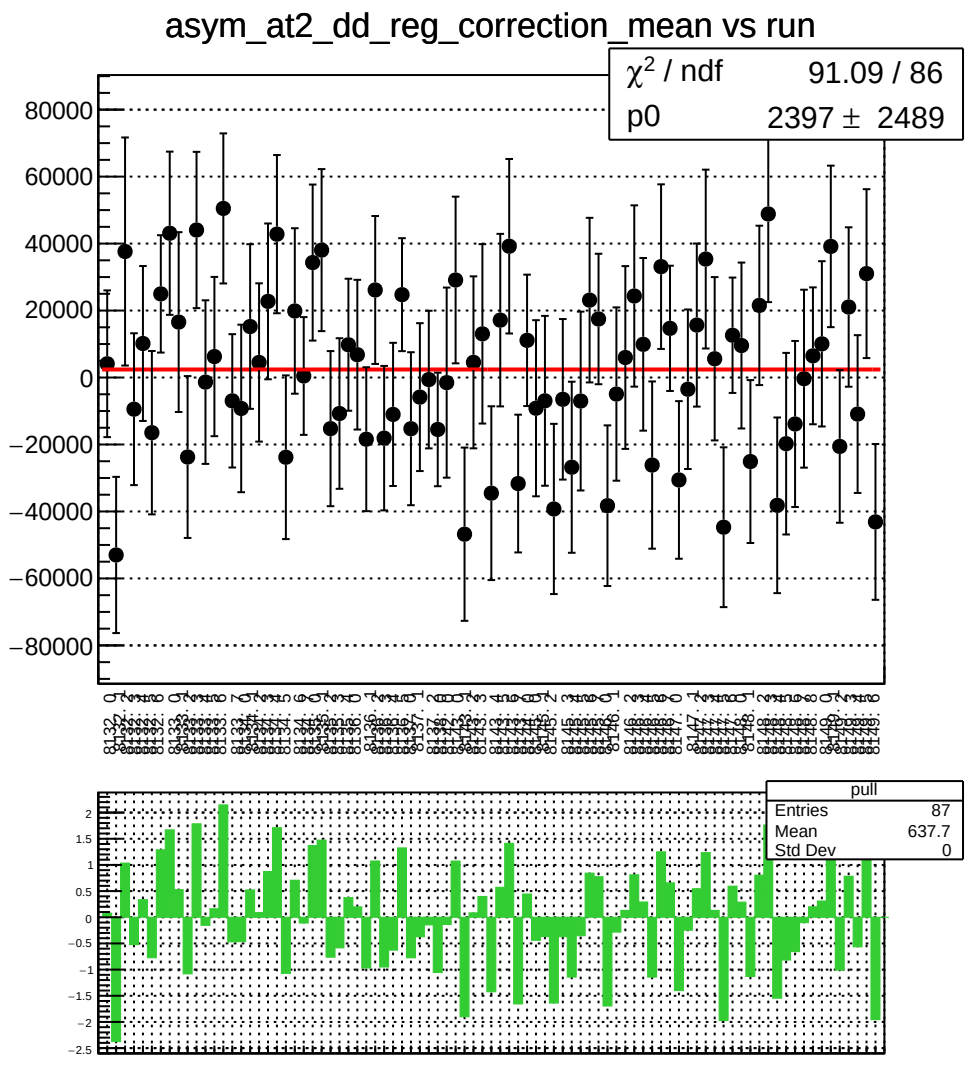

pull1D
Entries 87
Mean −0.01901
Std Dev 0.9153

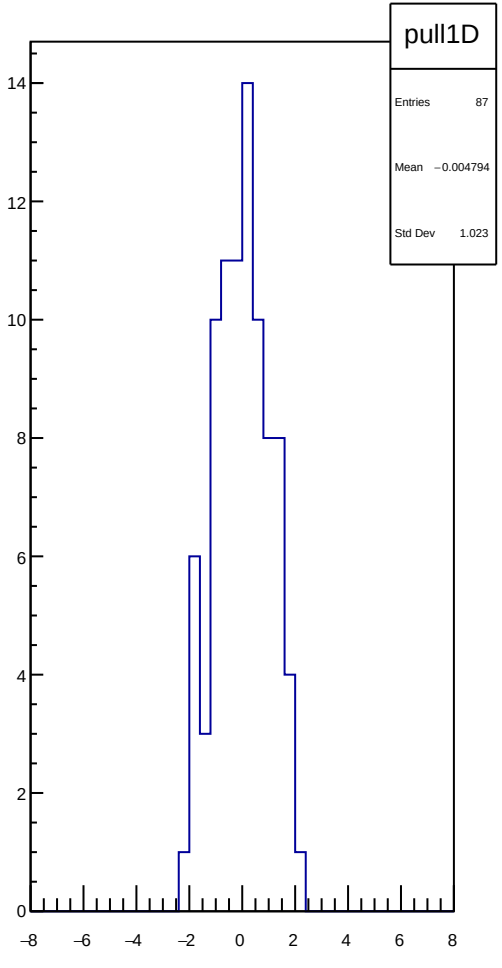

asym_at2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.59e+05 / 86
p0 4.239e−10 ± 4.326e−13
4
3.5
3
2.5
2
1.5
1
0.5

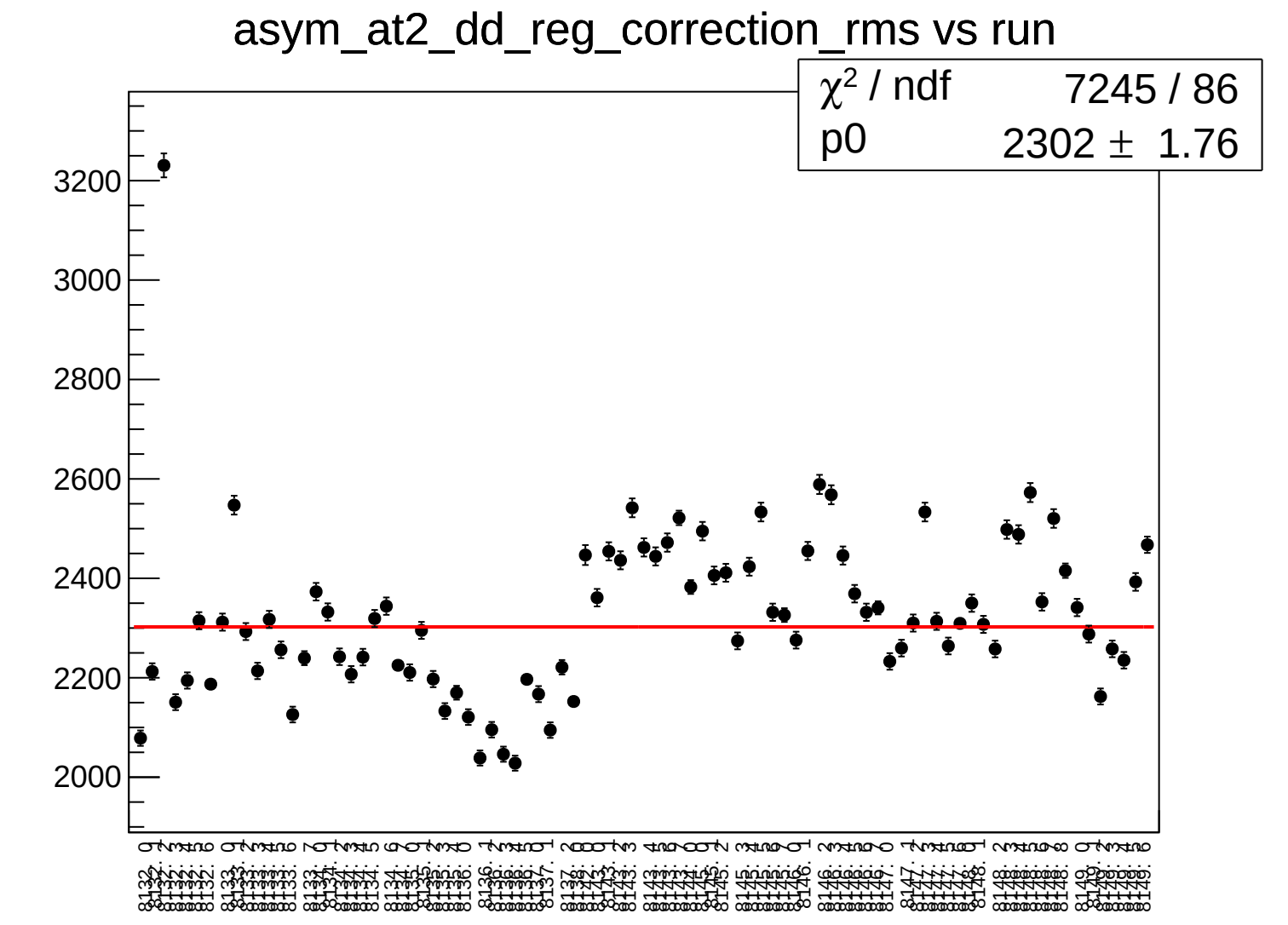

reg_asym_at2_dd_mean vs run
χ² / ndf 93.84 / 86
p0 1.834 ± 1838
pull
Entries 87
Mean 276
Std Dev 0

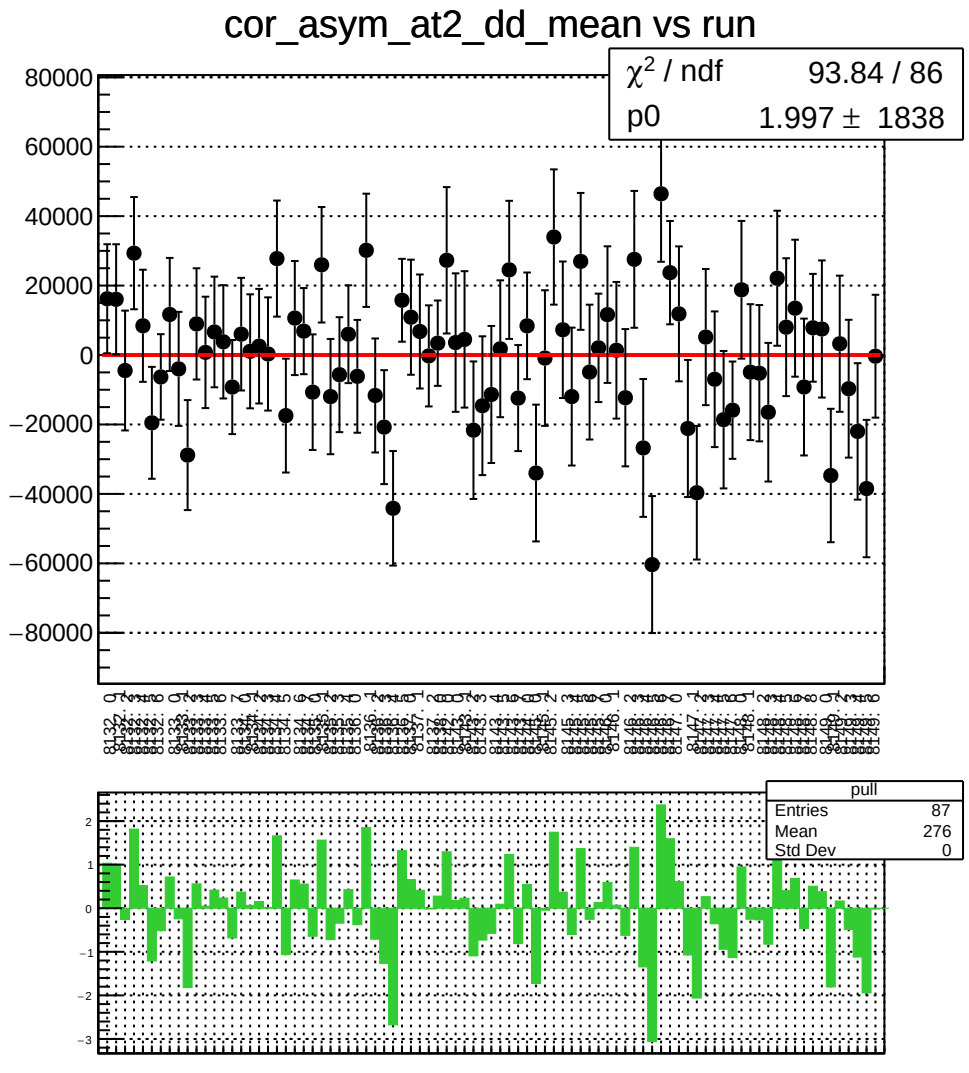

pull1D
Entries 87
Mean −0.01745
Std Dev 1.038

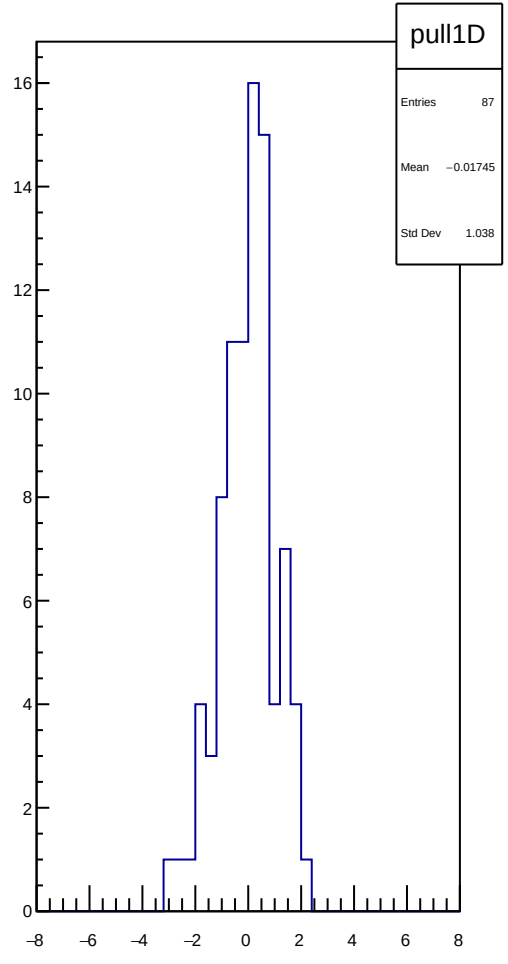

reg_asym_at2_dd_rms vs run
χ² / ndf 1.5e+04 / 86
p0 1697 ± 1.3
1900
1800
1700
1600
1500

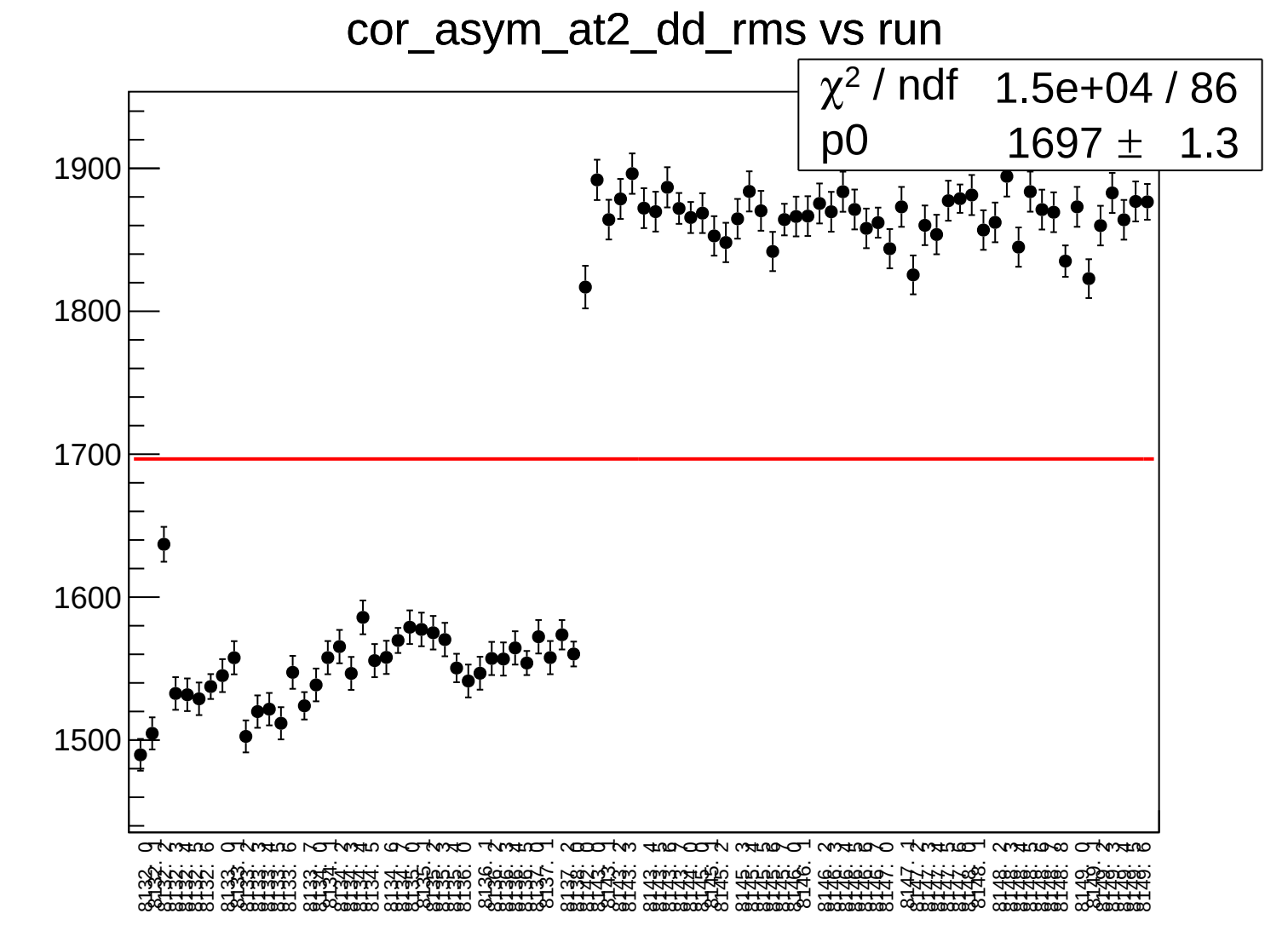

asym_at2_dd_reg_correction_mean vs run
χ² / ndf 91.09 / 86
p0 2397 ± 2489
pull
Entries 87
Mean 637.7
Std Dev 0

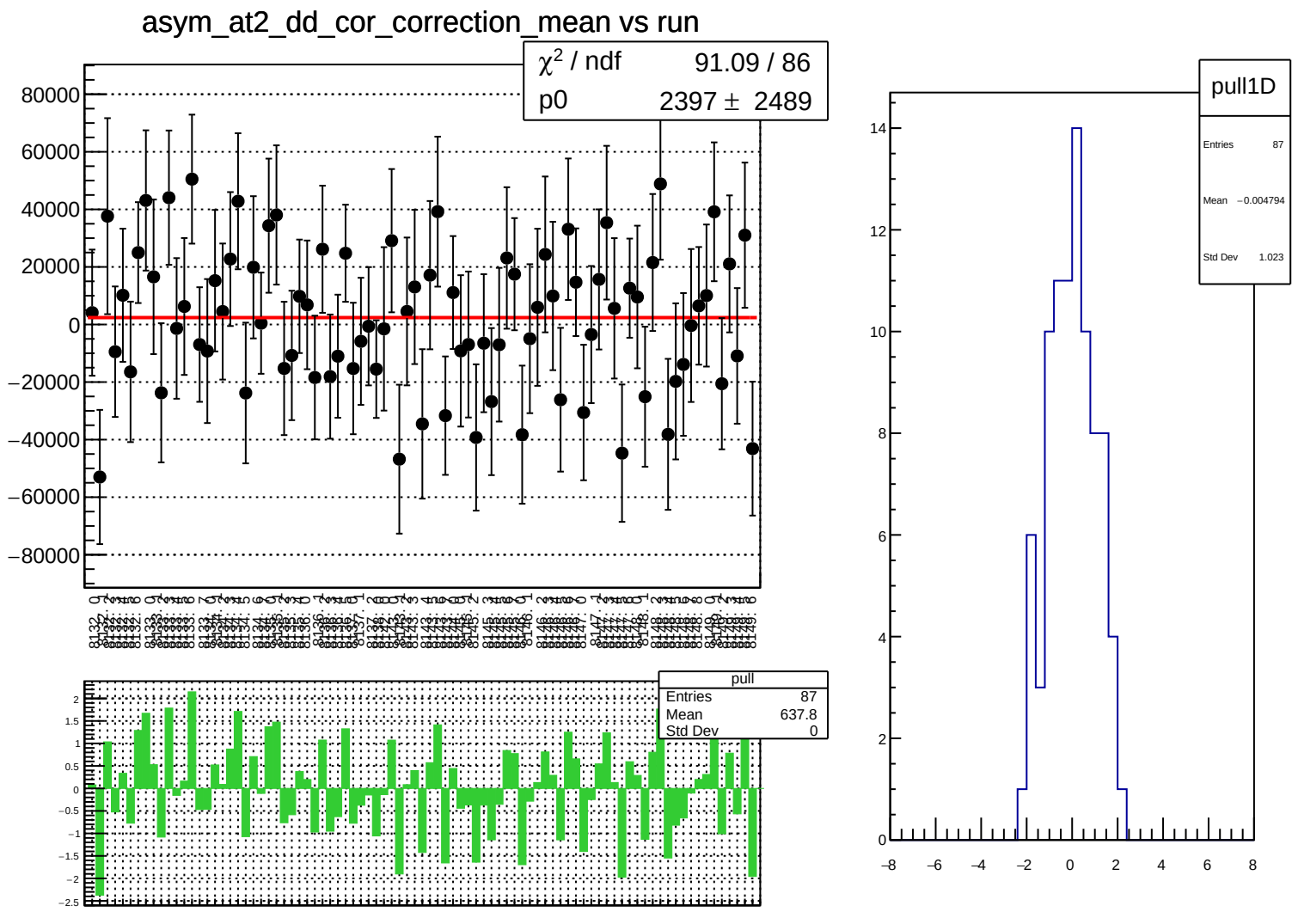

pull1D
Entries 87
Mean −0.004794
Std Dev 1.023

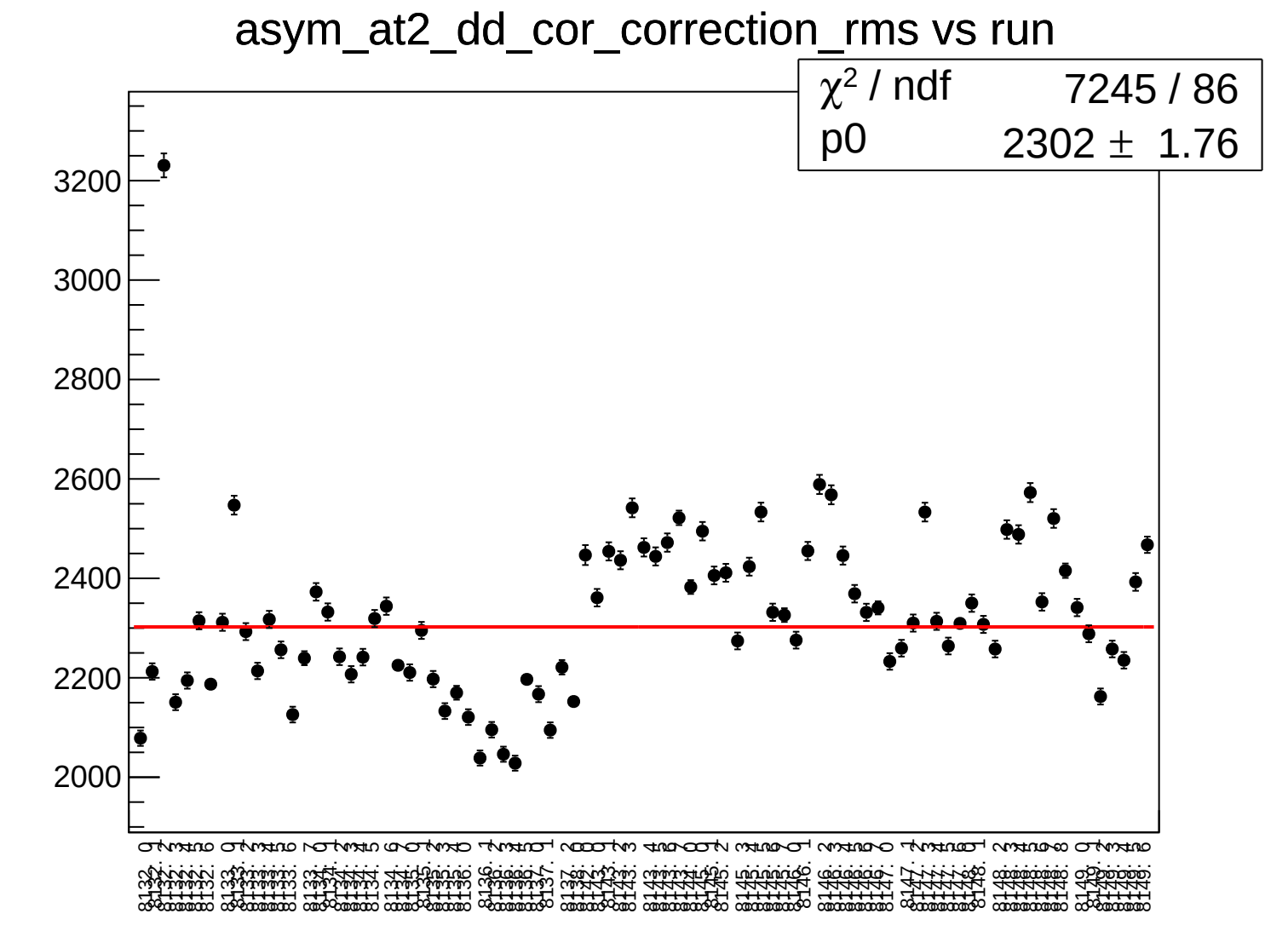

asym_at2_dd_reg_correction_rms vs run
χ² / ndf 7245 / 86
p0 2302 ± 1.76
3200
3000
2800
2600
2400
2200
2000

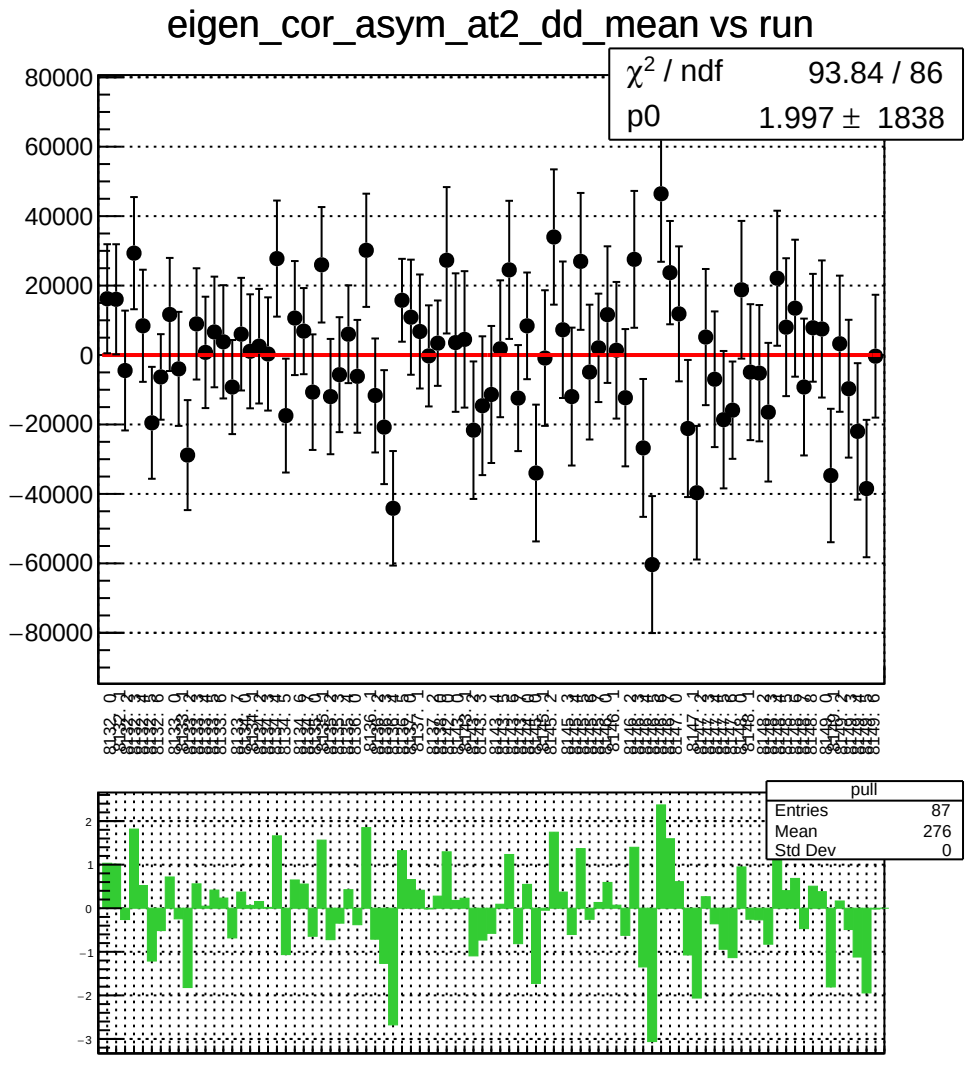

cor_asym_at2_dd_mean vs run
χ² / ndf 93.84 / 86
p0 1.997 ± 1838
pull
Entries 87
Mean 276
Std Dev 0

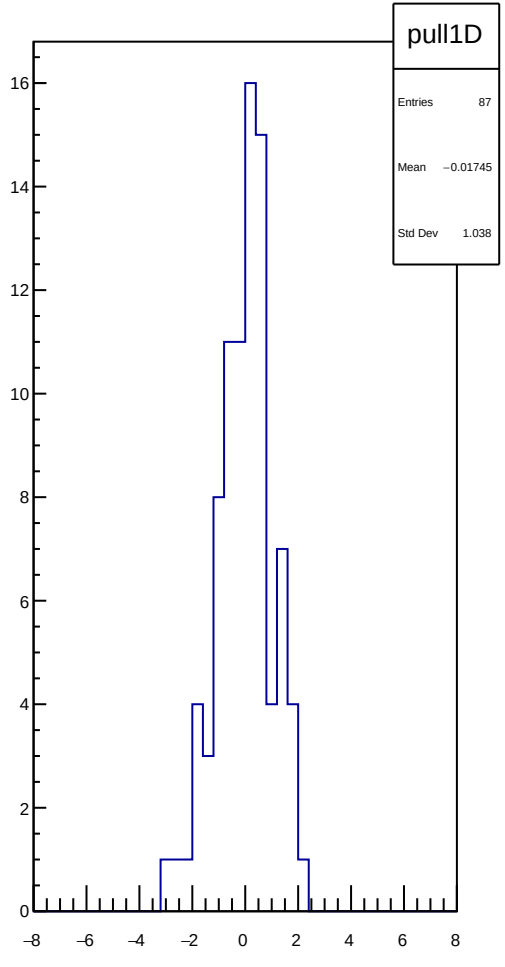

pull1D
Entries 87
Mean −0.01745
Std Dev 1.038

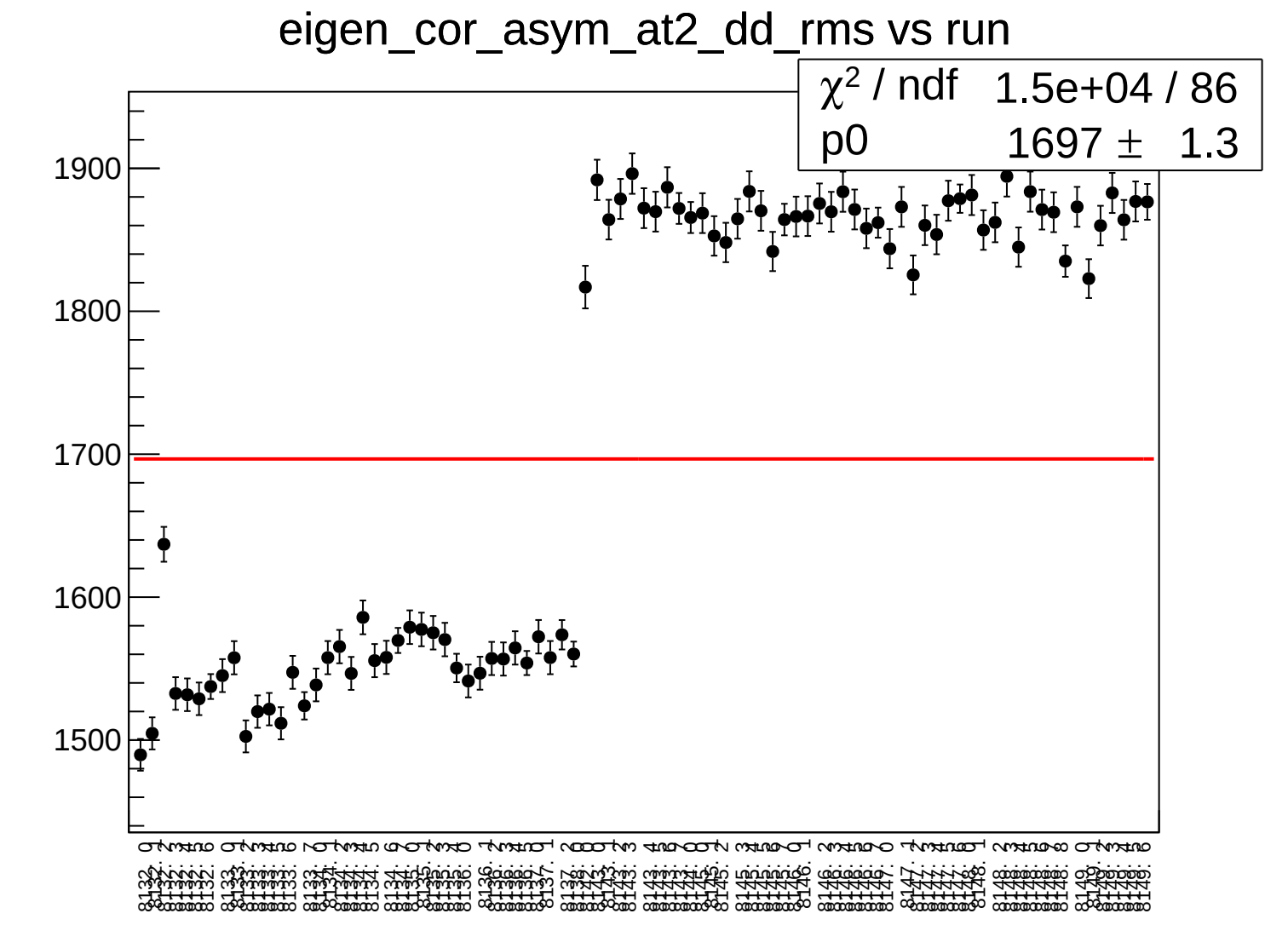

cor_asym_at2_dd_rms vs run
χ² / ndf 1.5e+04 / 86
p0 1697 ± 1.3
1900
1800
1700
1600
1500

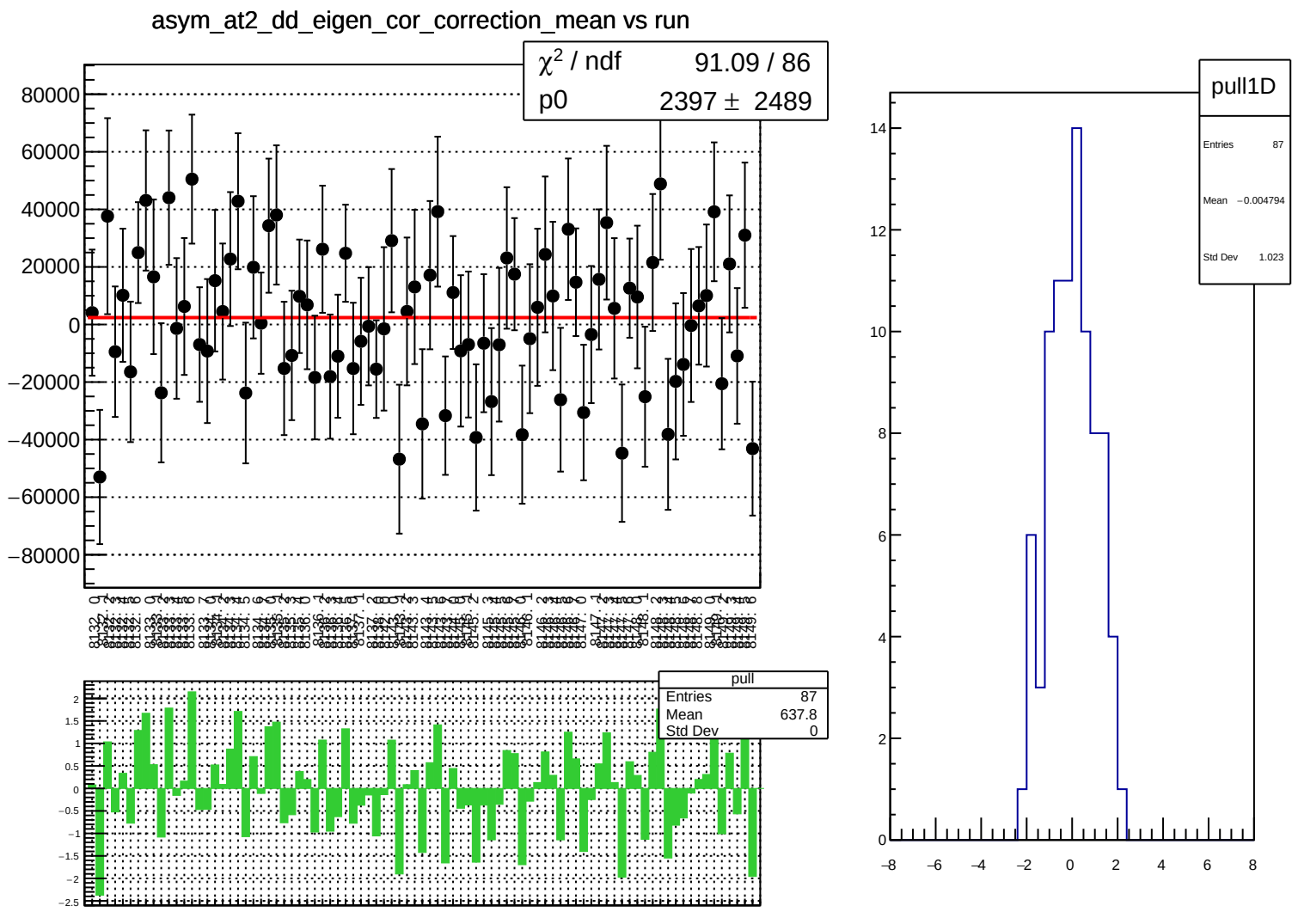

asym_at2_dd_cor_correction_mean vs run
χ² / ndf 91.09 / 86
p0 2397 ± 2489
pull
Entries 87
Mean 637.8
Std Dev 0
pull1D
Entries 87
Mean −0.004794
Std Dev 1.023

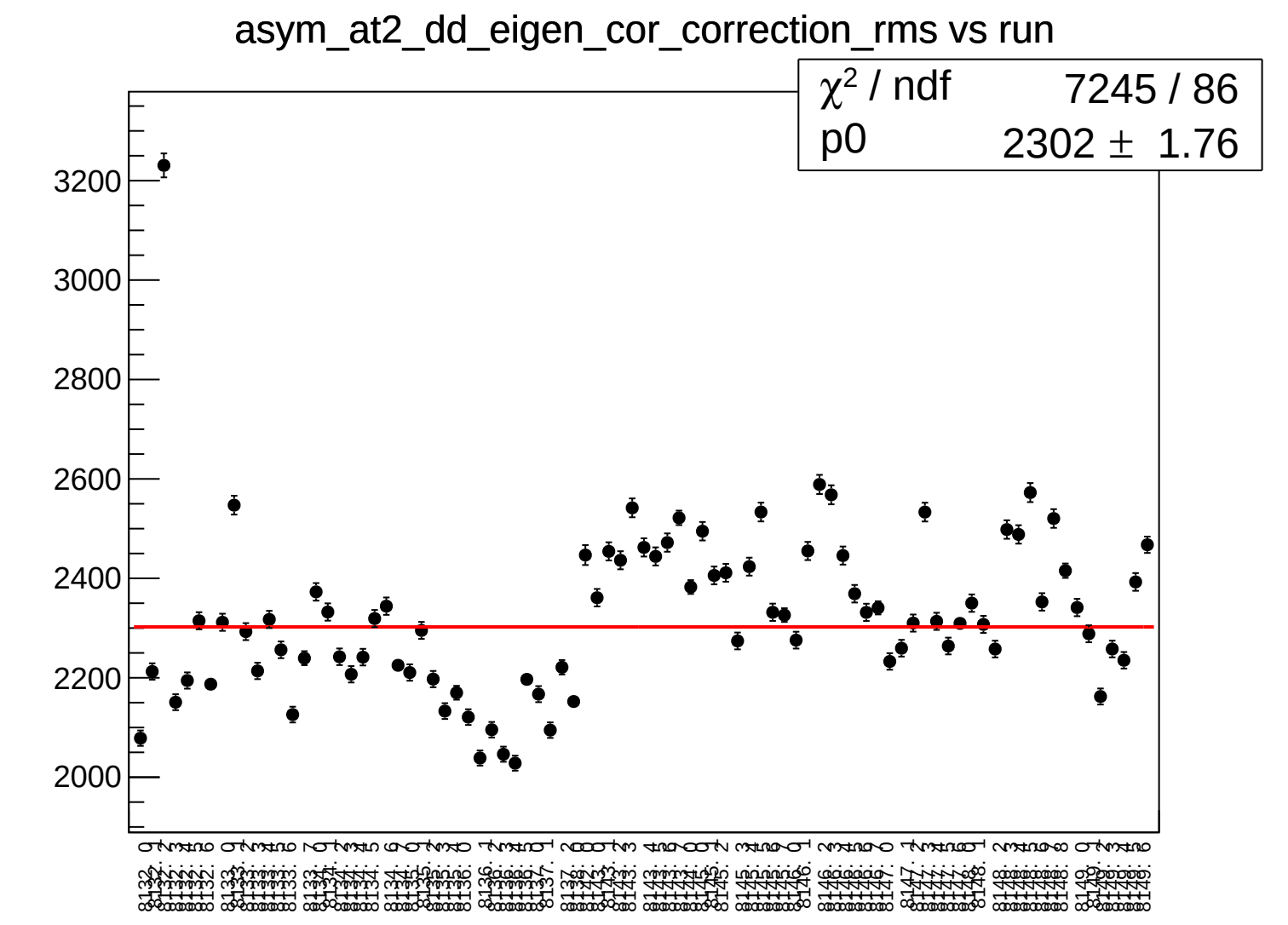

asym_at2_dd_cor_correction_rms vs run
χ² / ndf 7245 / 86
p0 2302 ± 1.76
3200
3000
2800
2600
2400
2200
2000

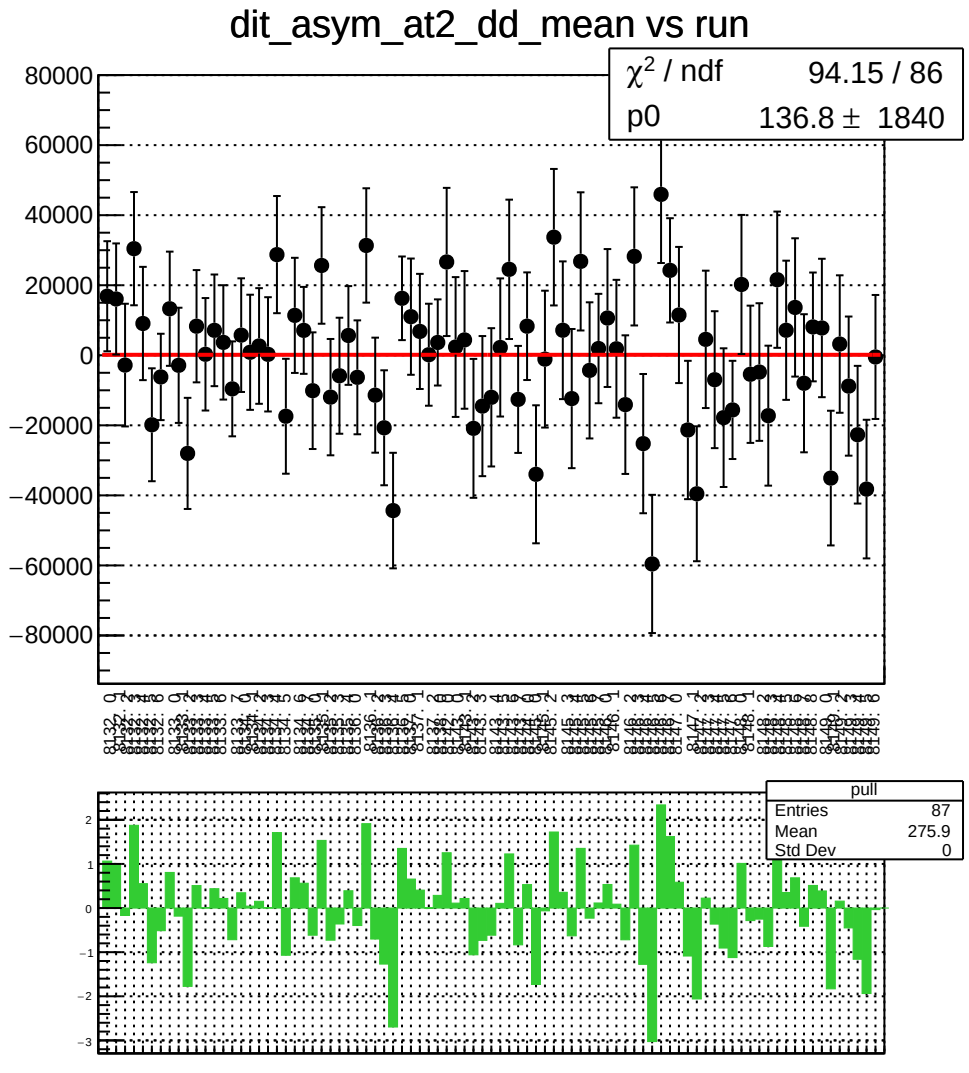

eigen_cor_asym_at2_dd_mean vs run
χ² / ndf 93.84 / 86
p0 1.997 ± 1838
pull
Entries 87
Mean 276
Std Dev 0

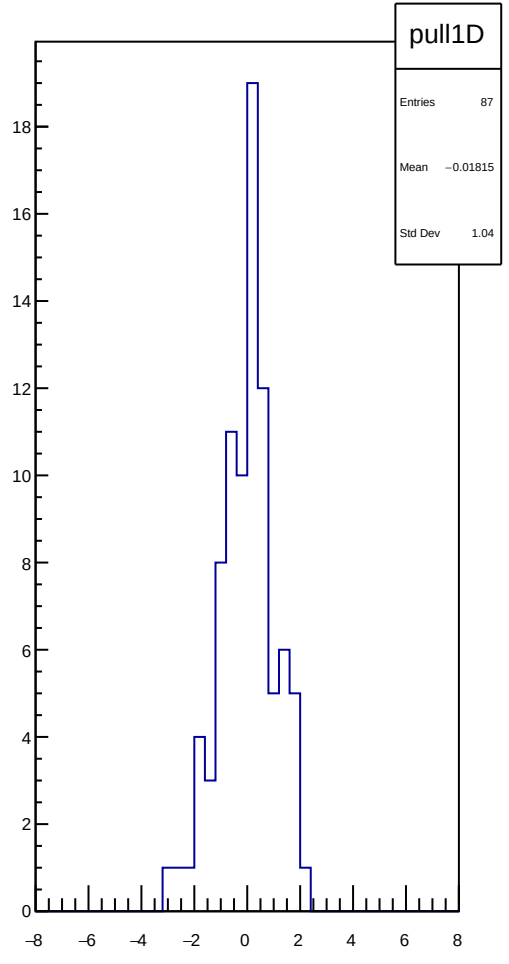

pull1D
Entries 87
Mean −0.01745
Std Dev 1.038

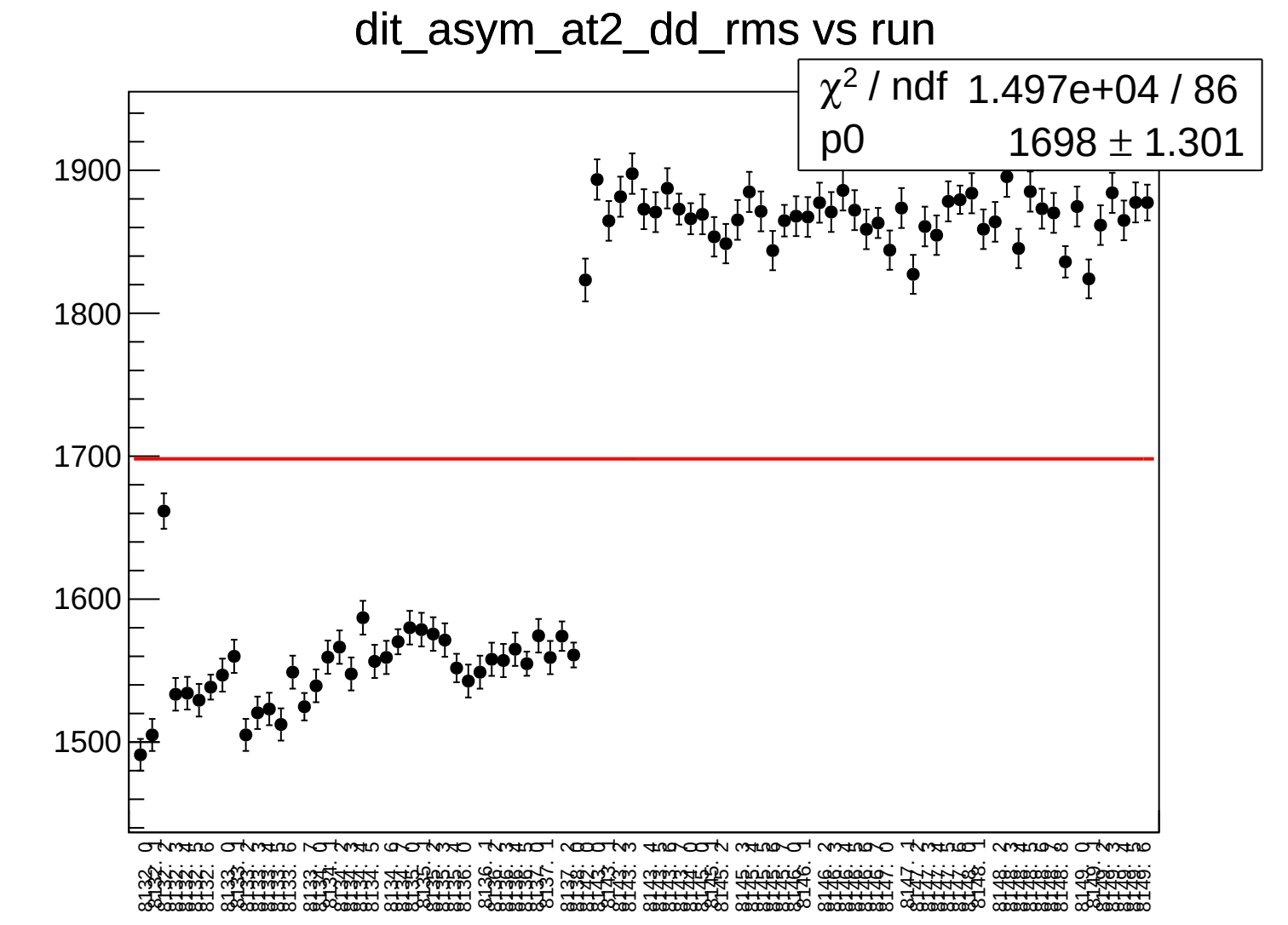

eigen_cor_asym_at2_dd_rms vs run
χ² / ndf 1.5e+04 / 86
p0 1697 ± 1.3
1900
1800
1700
1600
1500

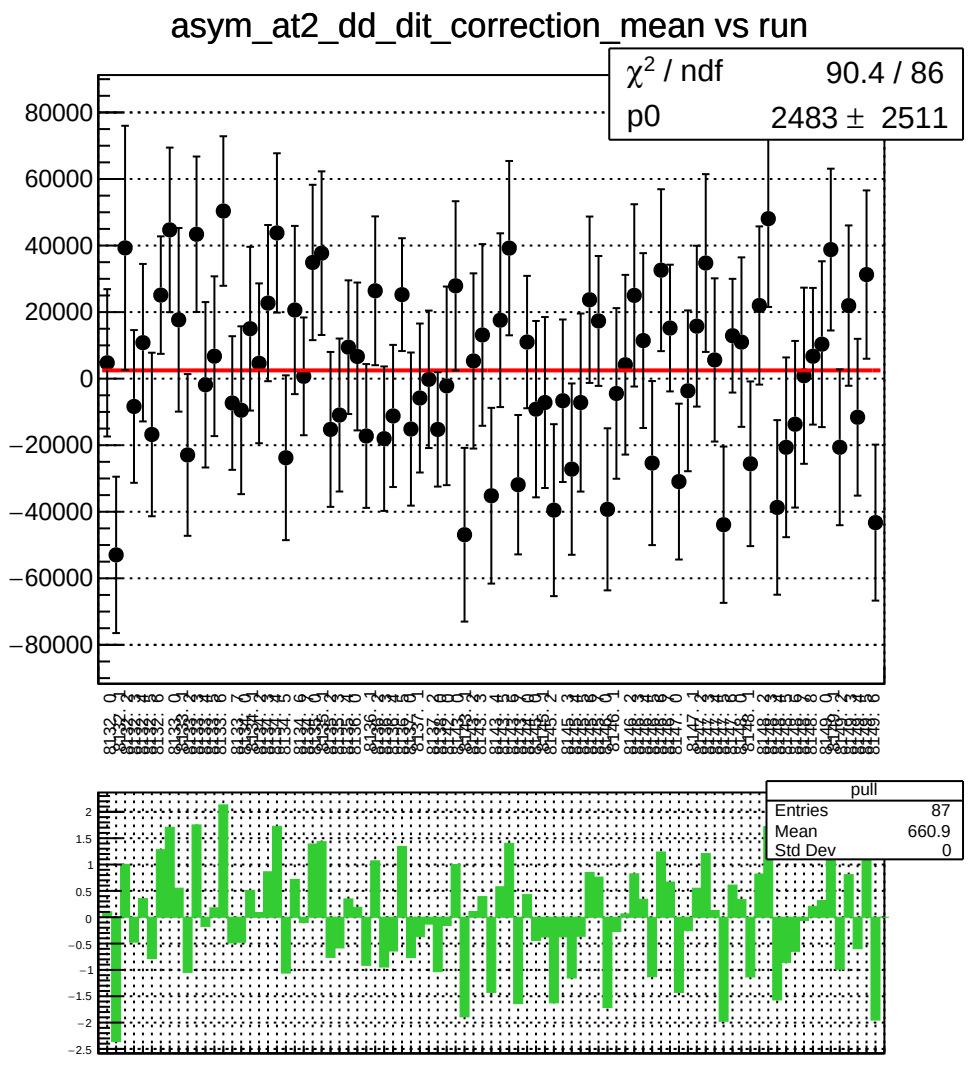

asym_at2_dd_eigen_cor_correction_mean vs run
χ² / ndf 91.09 / 86
p0 2397 ± 2489
pull
Entries 87
Mean 637.8
Std Dev 0
pull1D
Entries 87
Mean −0.004794
Std Dev 1.023

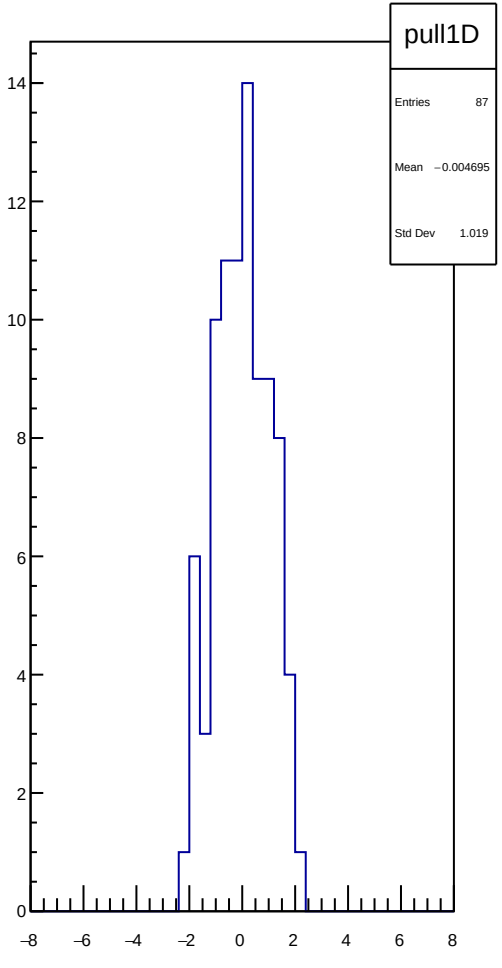

asym_at2_dd_eigen_cor_correction_rms vs run
χ² / ndf 7245 / 86
p0 2302 ± 1.76
3200
3000
2800
2600
2400
2200
2000

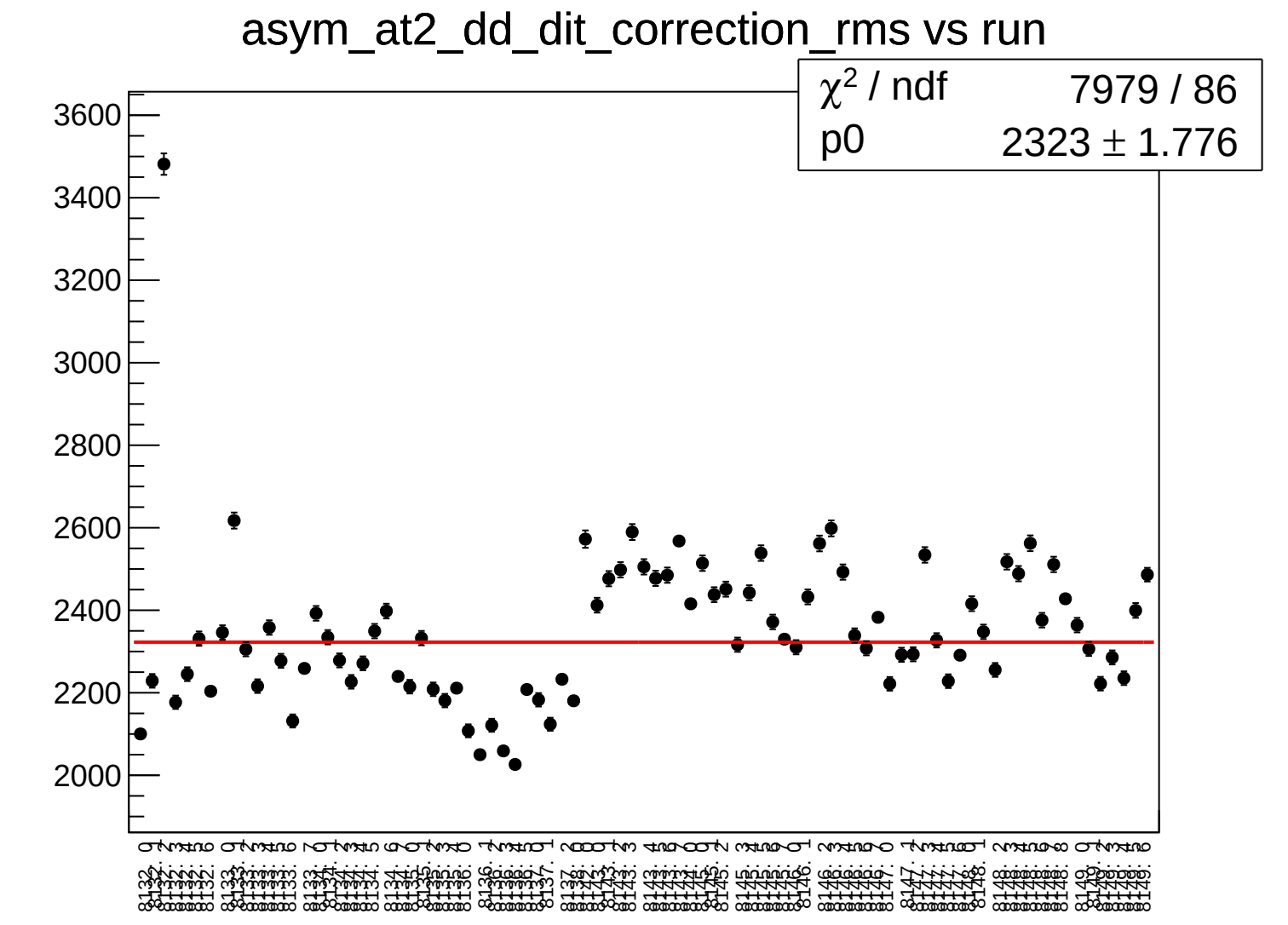

dit_asym_at2_dd_mean vs run
χ² / ndf 94.15 / 86
p0 136.8 ± 1840
pull
Entries 87
Mean 275.9
Std Dev 0

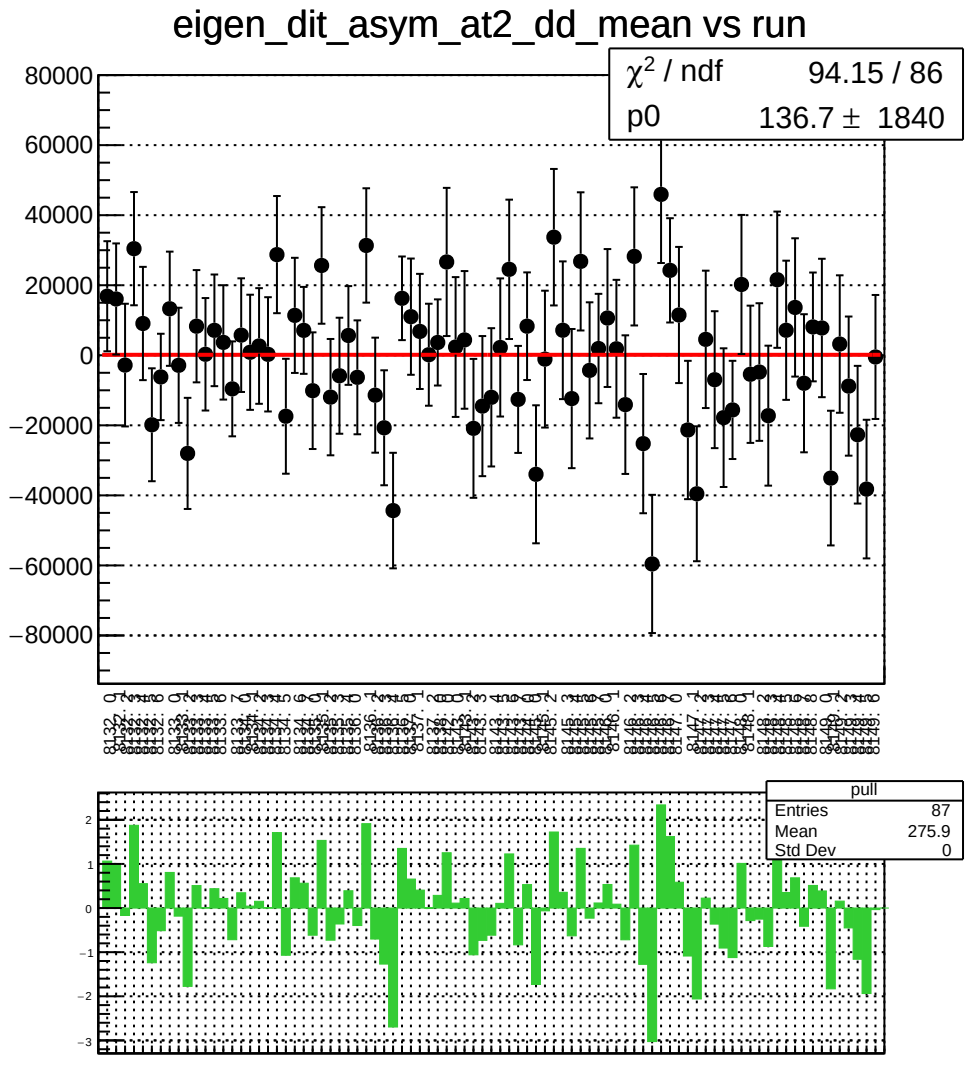

pull1D
Entries 87
Mean −0.01815
Std Dev 1.04

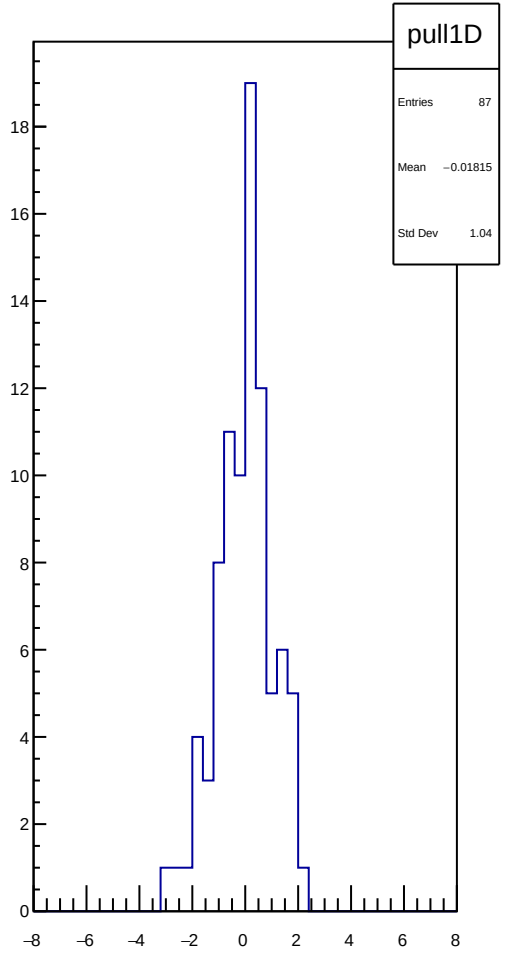

dit_asym_at2_dd_rms vs run
χ² / ndf 1.497e+04 / 86
p0 1698 ± 1.301
1900
1800
1700
1600
1500

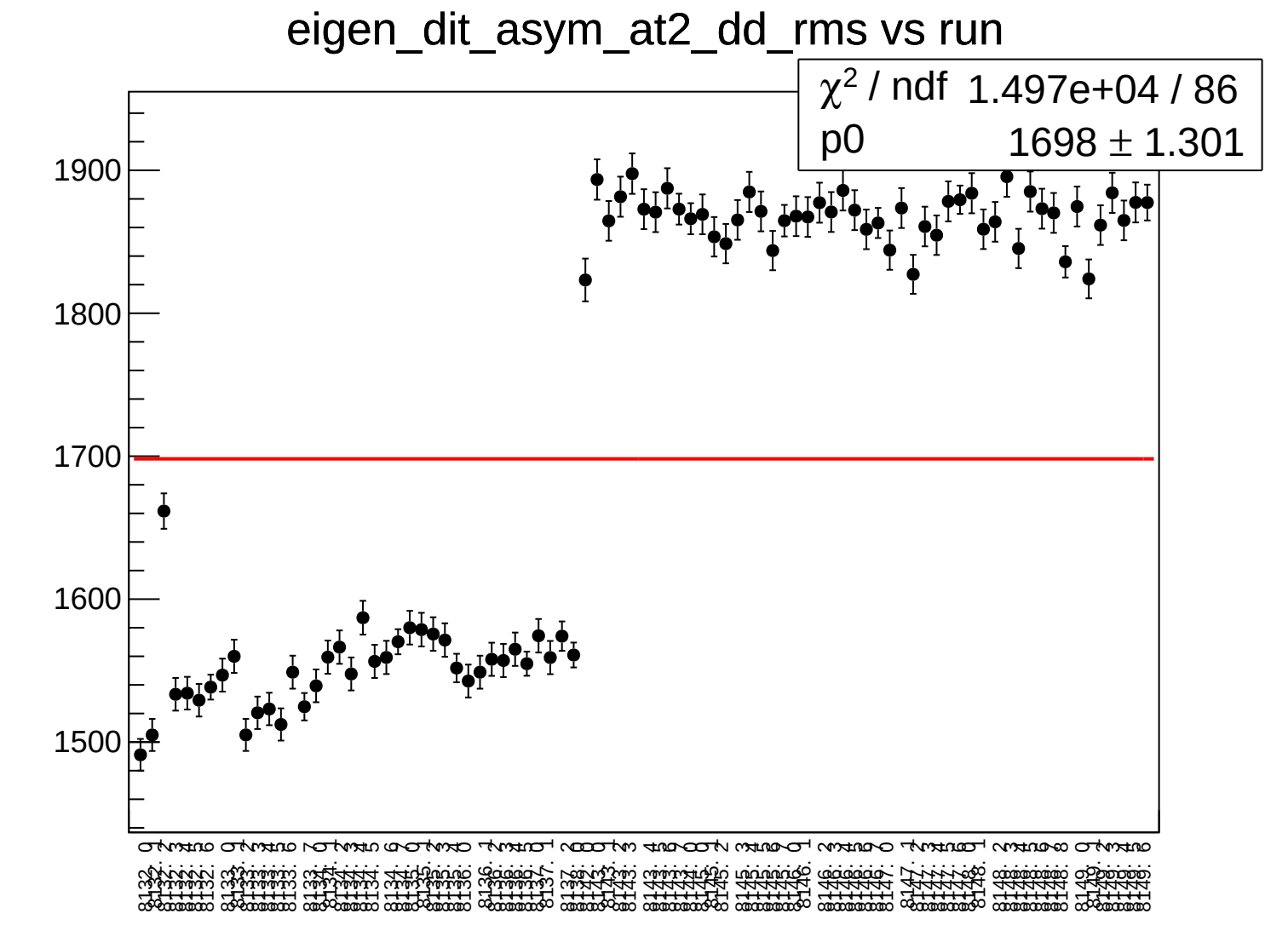

asym_at2_dd_dit_correction_mean vs run
χ² / ndf 90.4 / 86
p0 2483 ± 2511
pull
Entries 87
Mean 660.9
Std Dev 0

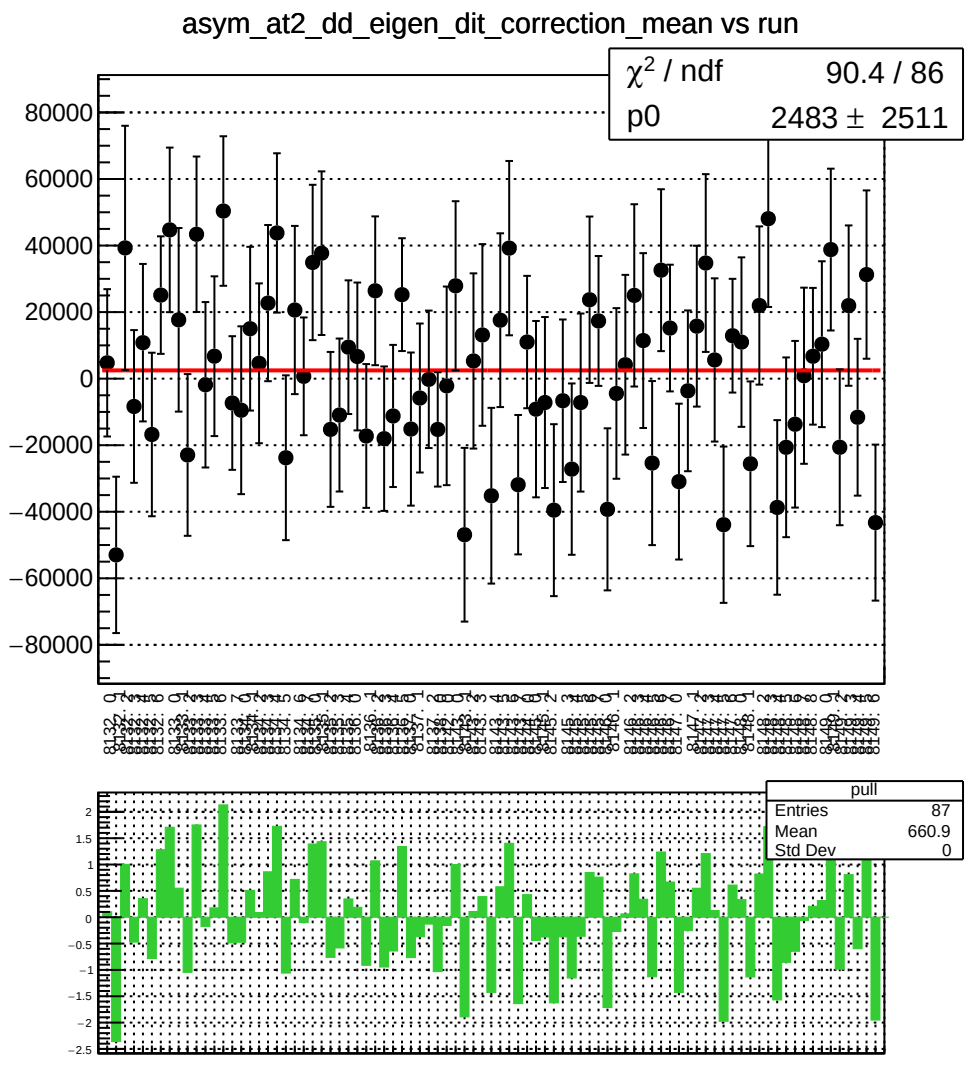

pull1D
Entries 87
Mean −0.004695
Std Dev 1.019

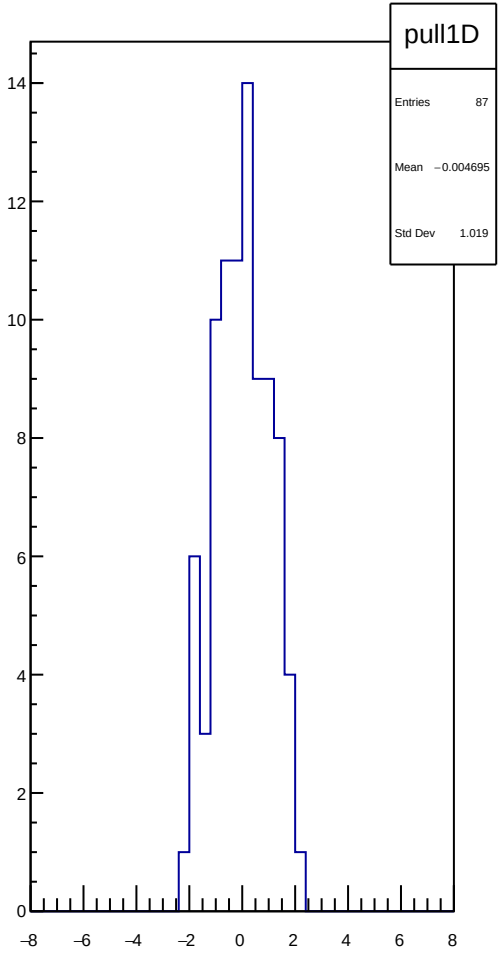

asym_at2_dd_dit_correction_rms vs run
χ² / ndf 7979 / 86
p0 2323 ± 1.776
3600
3400
3200
3000
2800
2600
2400
2200
2000

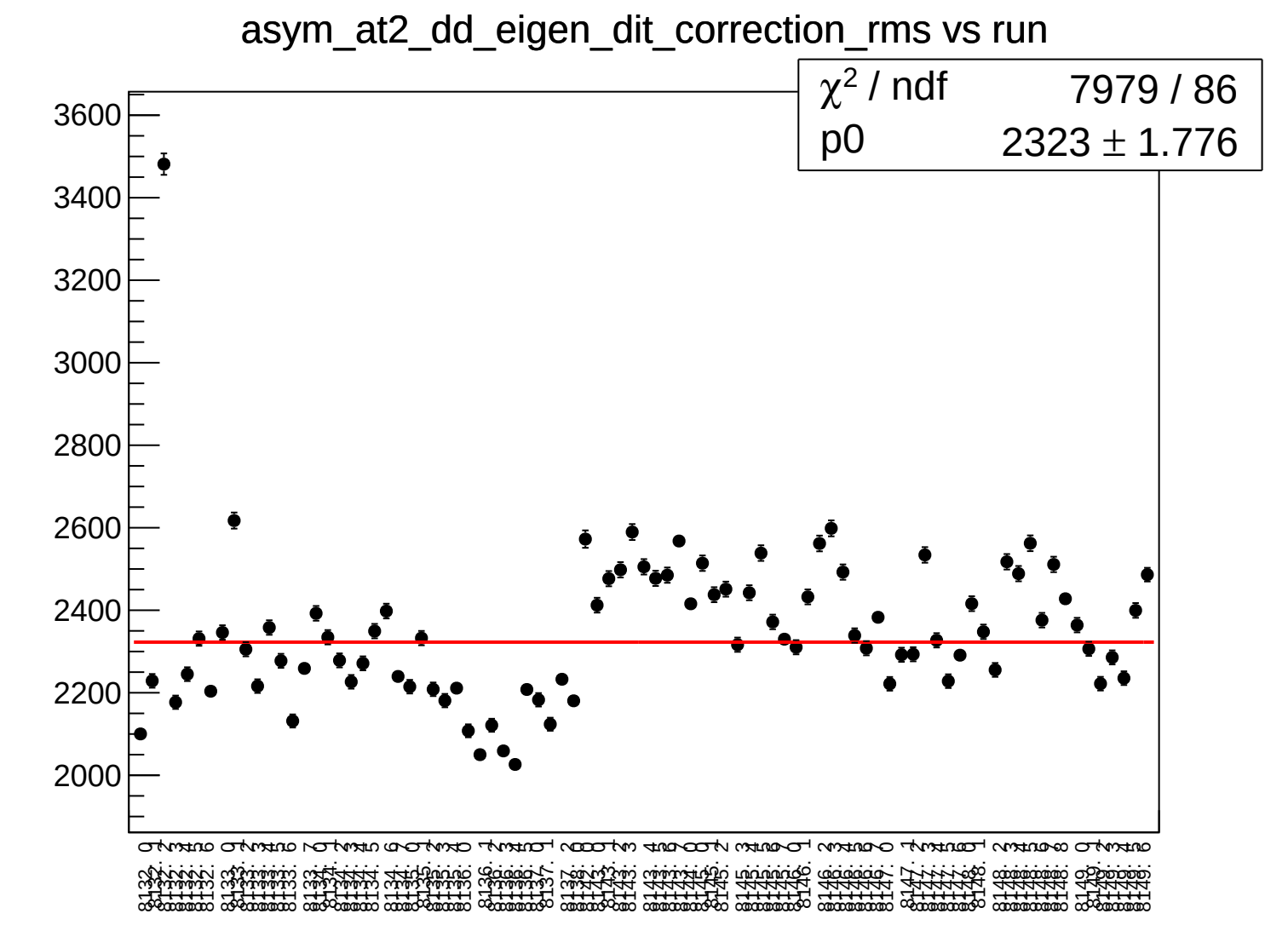

eigen_dit_asym_at2_dd_mean vs run
χ² / ndf 94.15 / 86
p0 136.7 ± 1840
pull
Entries 87
Mean 275.9
Std Dev 0

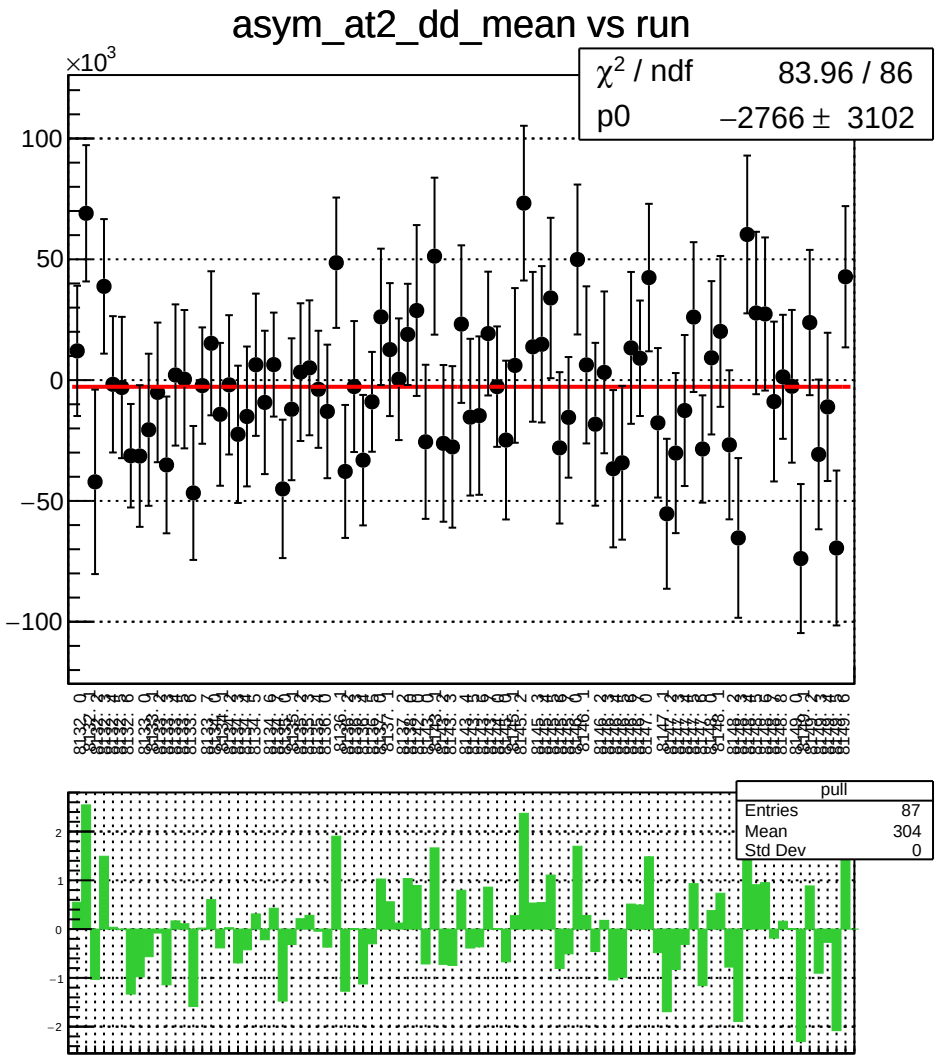

pull1D
Entries 87
Mean −0.01815
Std Dev 1.04

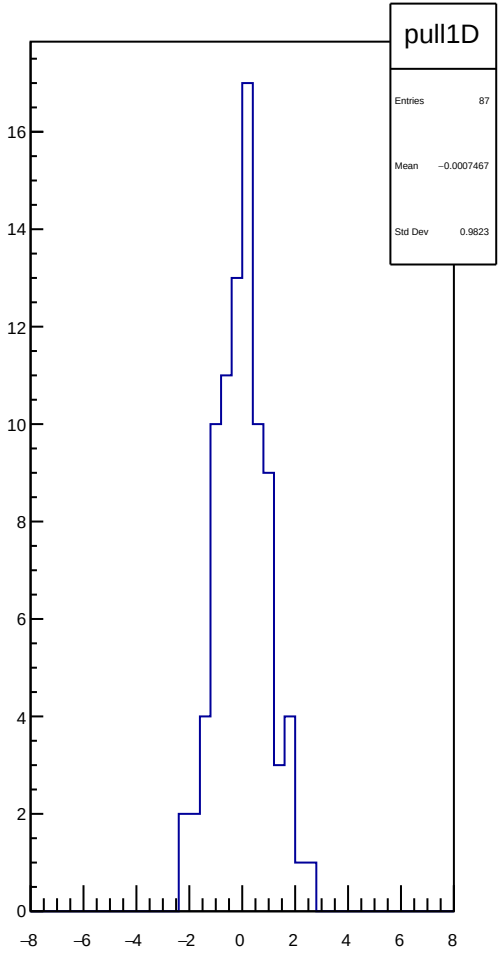

eigen_dit_asym_at2_dd_rms vs run
χ² / ndf 1.497e+04 / 86
p0 1698 ± 1.301
1900
1800
1700
1600
1500

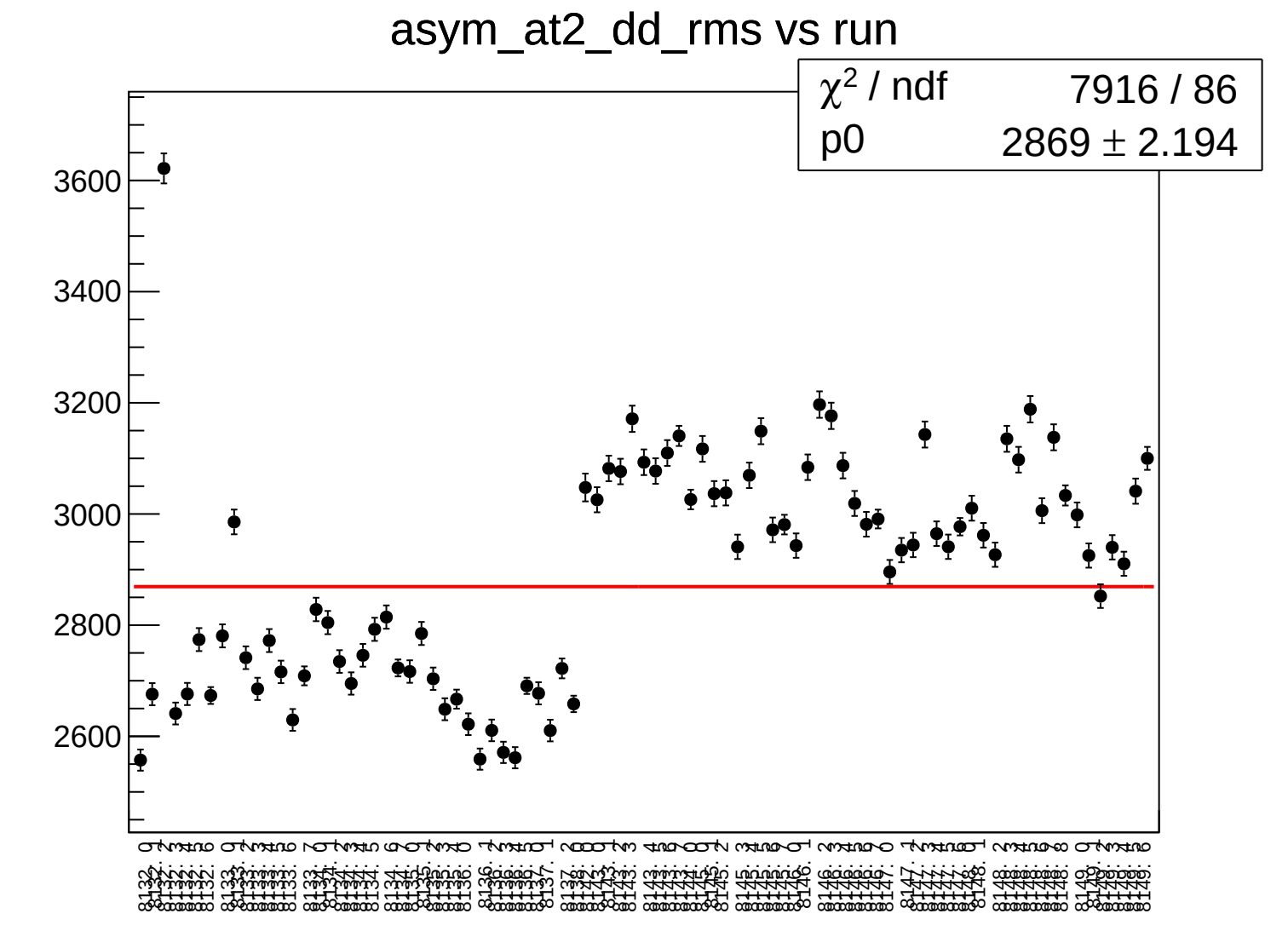

asym_at2_dd_eigen_dit_correction_mean vs run
χ² / ndf 90.4 / 86
p0 2483 ± 2511
pull
Entries 87
Mean 660.9
Std Dev 0

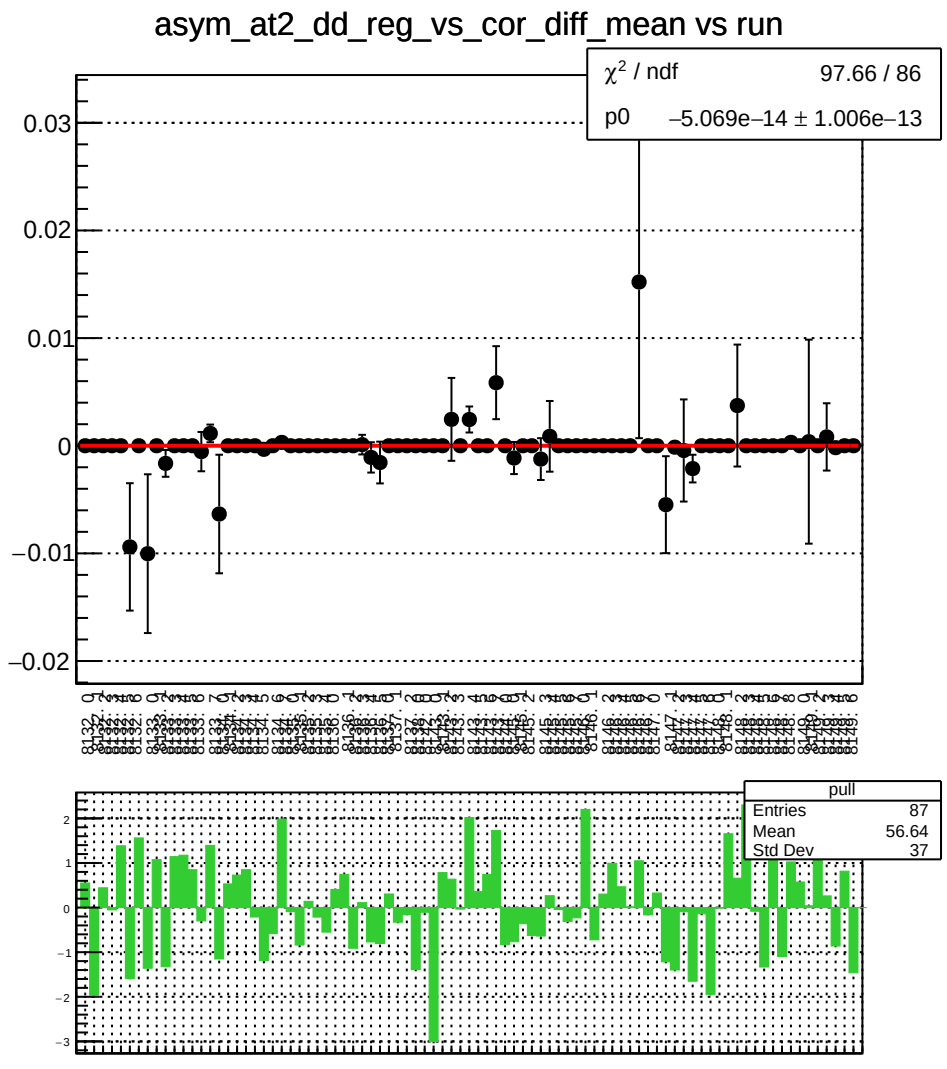

pull1D
Entries 87
Mean −0.004695
Std Dev 1.019

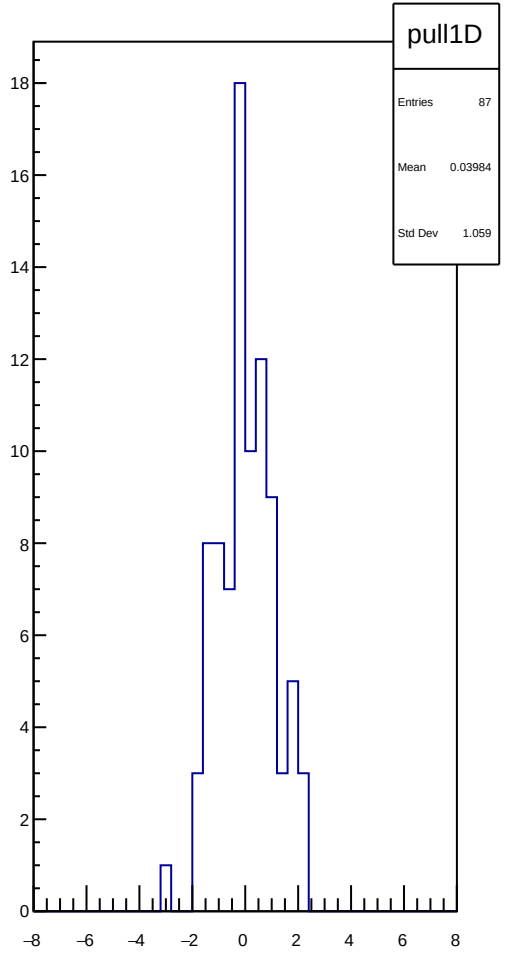

asym_at2_dd_eigen_dit_correction_rms vs run
χ² / ndf 7979 / 86
p0 2323 ± 1.776
3600
3400
3200
3000
2800
2600
2400
2200
2000

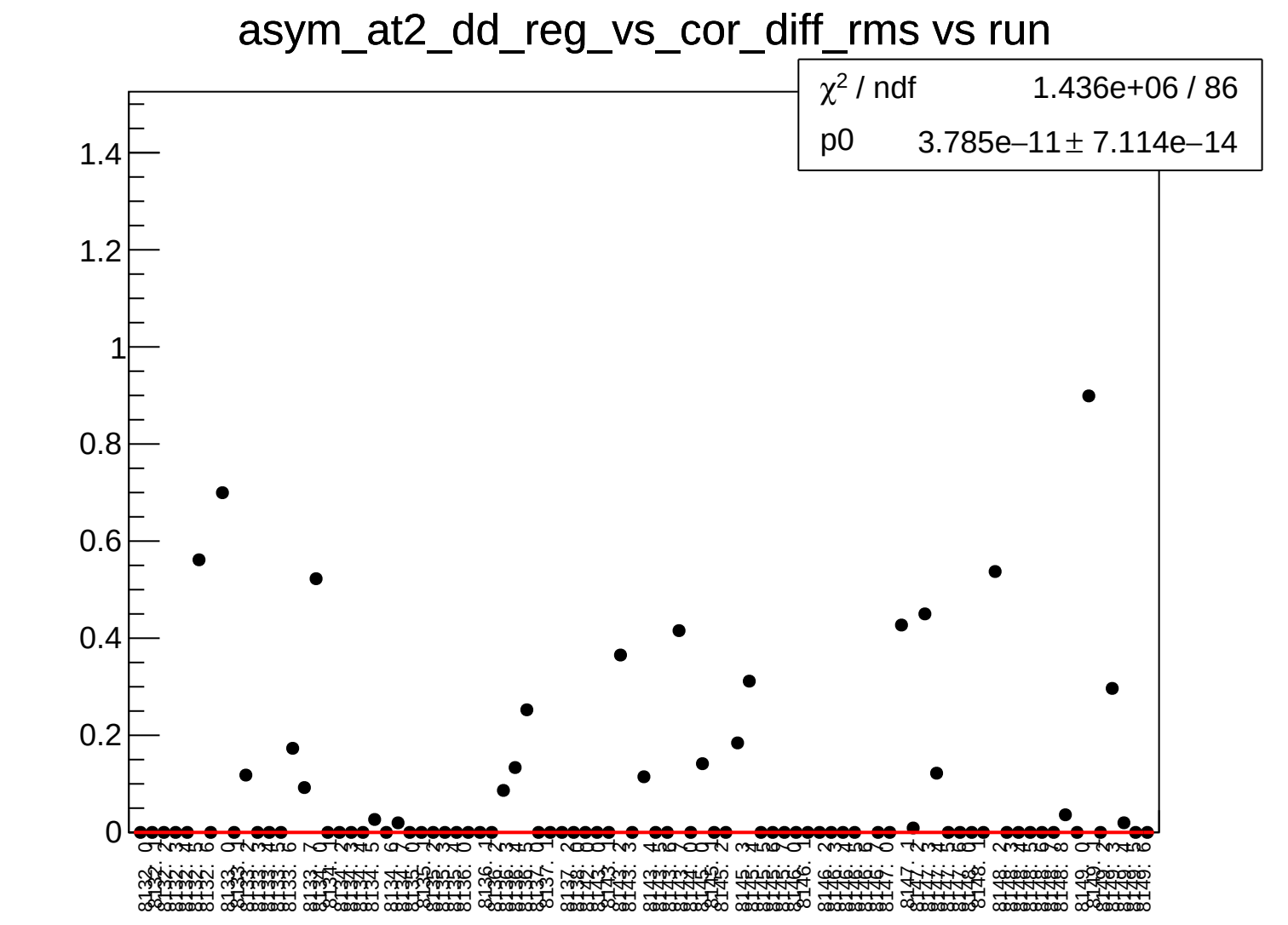

asym_at2_dd_mean vs run
×10^3
χ² / ndf 83.96 / 86
p0 −2766 ± 3102
100
50
0
−50
−100
pull
Entries 87
Mean 304
Std Dev 0
2
1
0
−1
−2

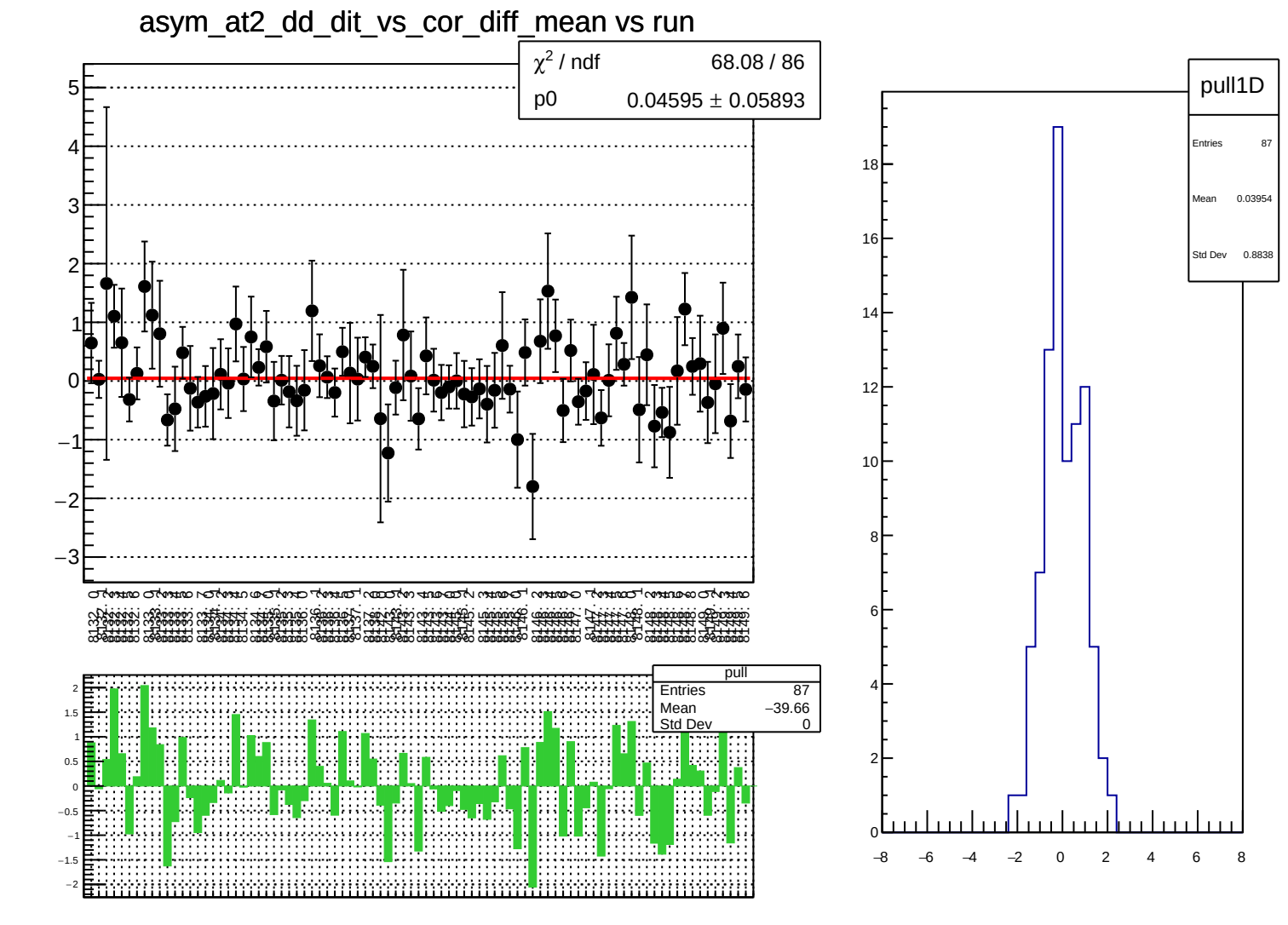

pull1D
Entries 87
Mean −0.0007467
Std Dev 0.9823
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

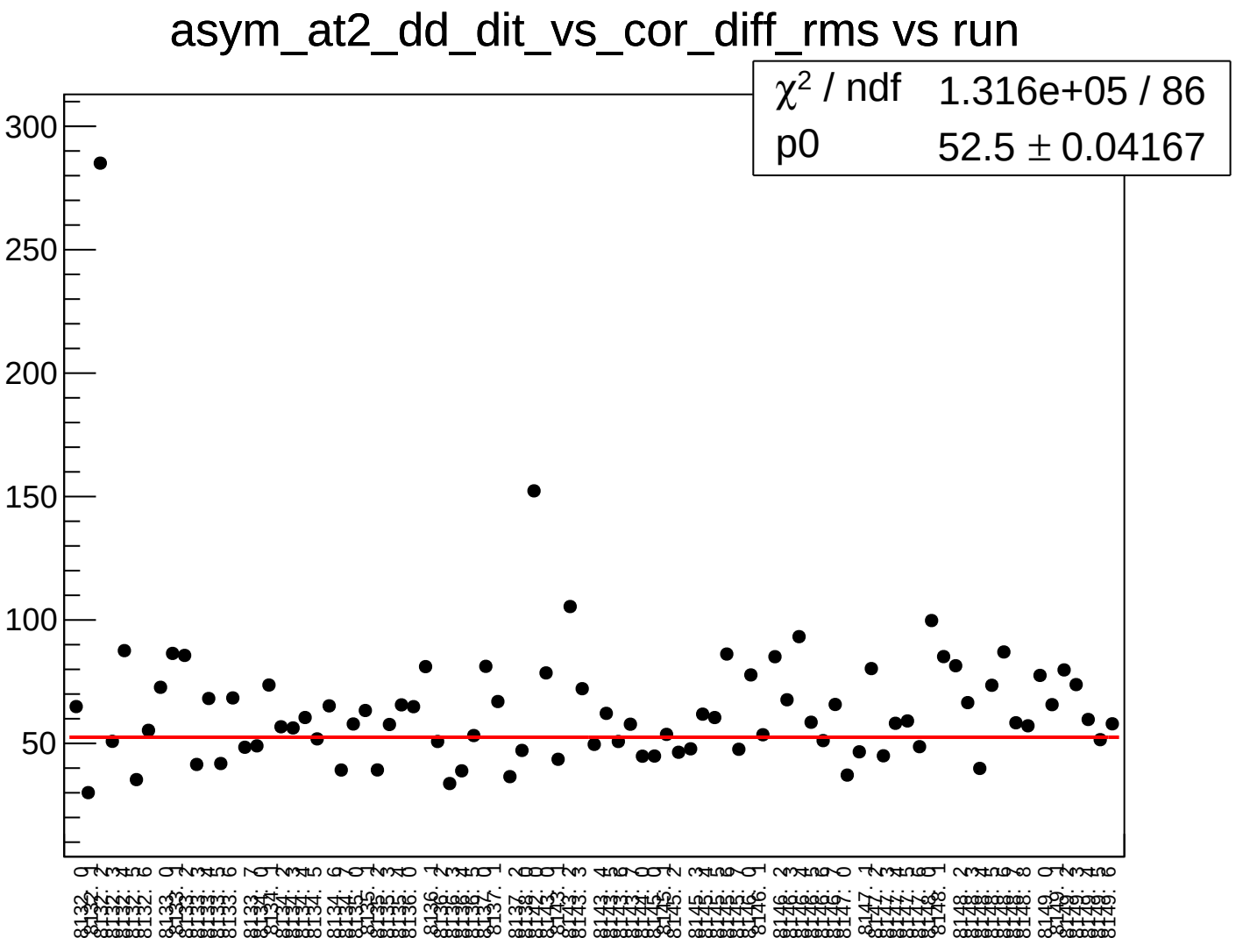

asym_at2_dd_rms vs run
χ² / ndf 7916 / 86
p0 2869 ± 2.194
3600
3400
3200
3000
2800
2600

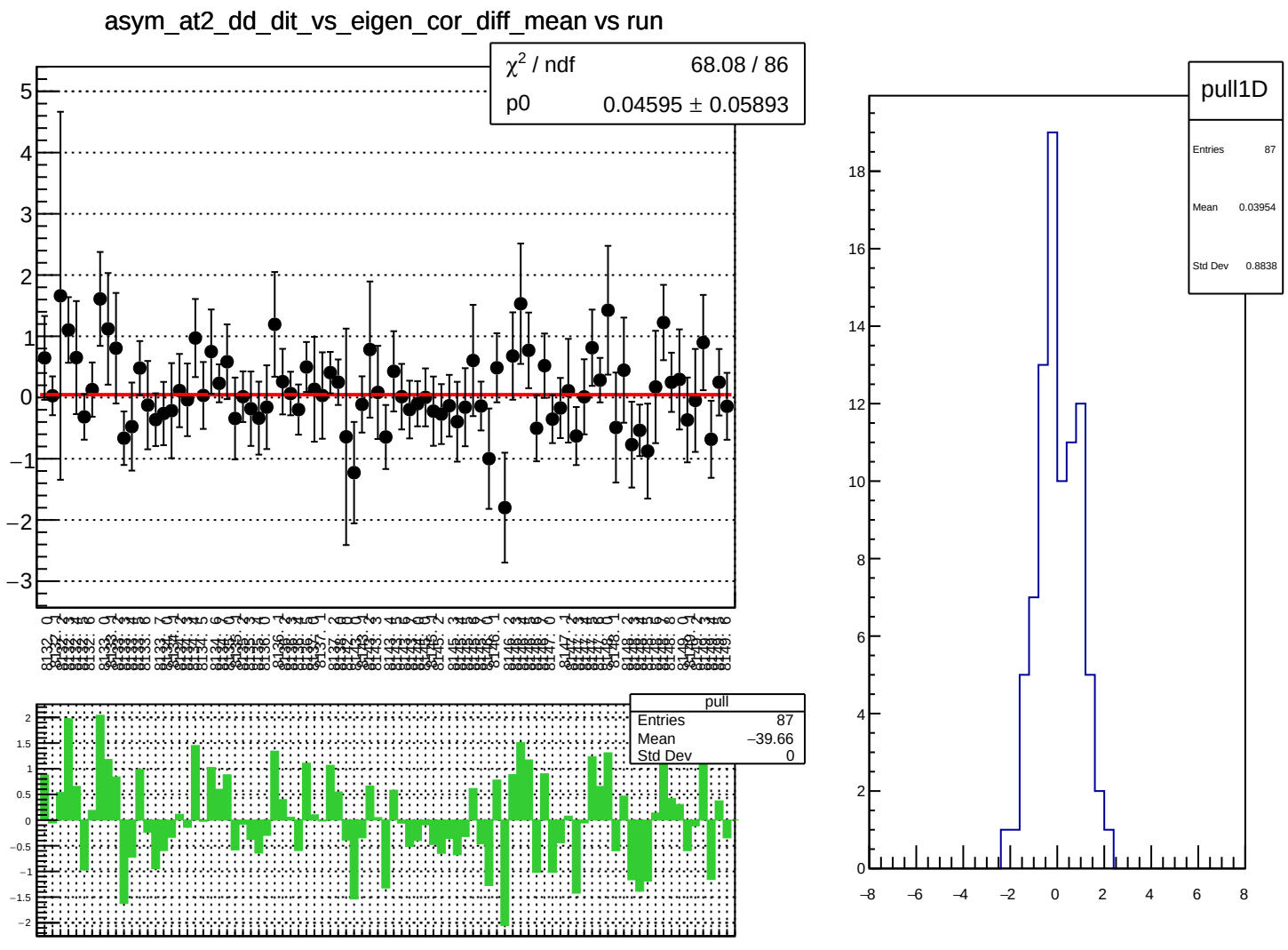

asym_at2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 97.66 / 86
p0 −5.069e−14 ± 1.006e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 87
Mean 56.64
Std Dev 37
2
1
0
−1
−2
−3

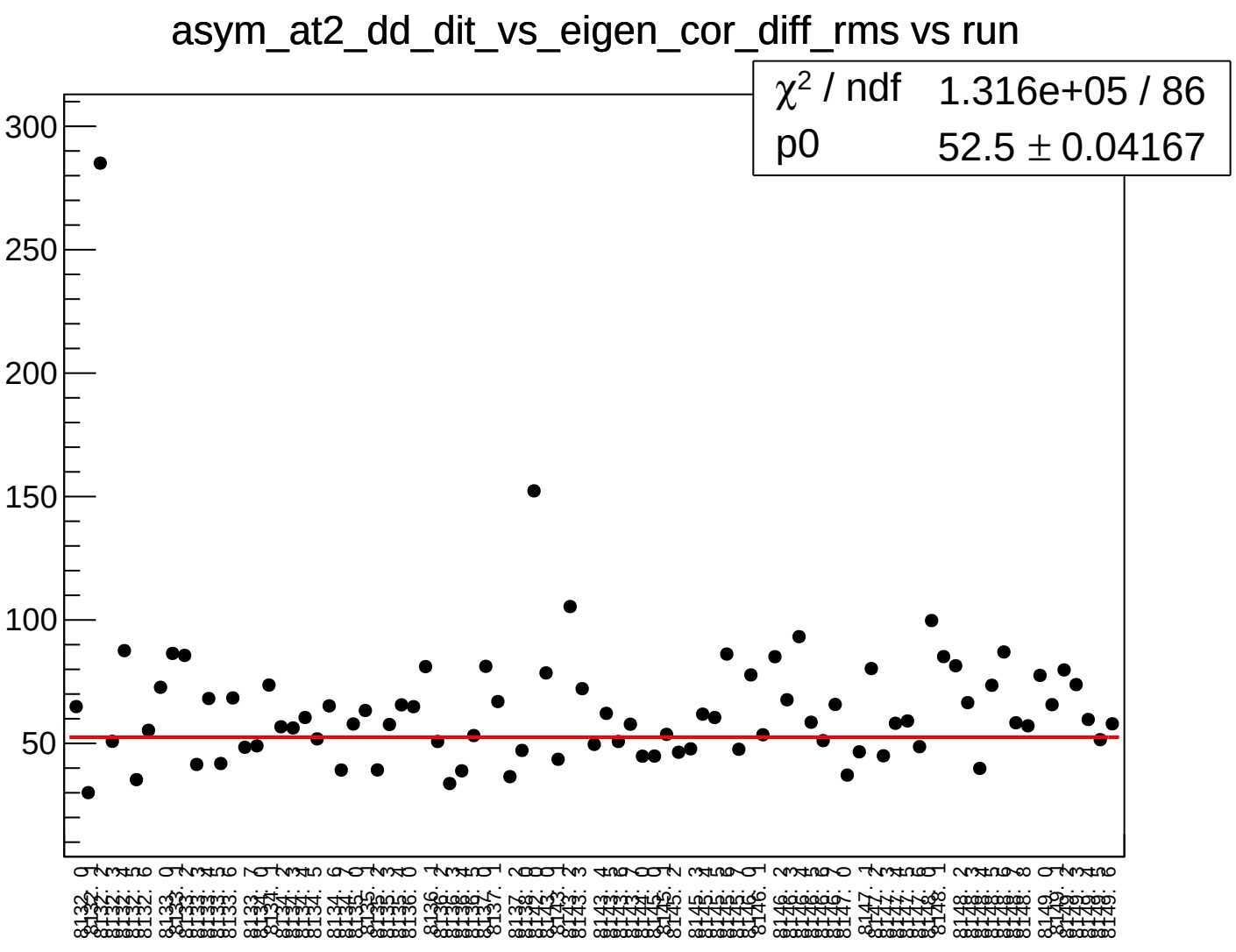

pull1D
Entries 87
Mean 0.03984
Std Dev 1.059
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

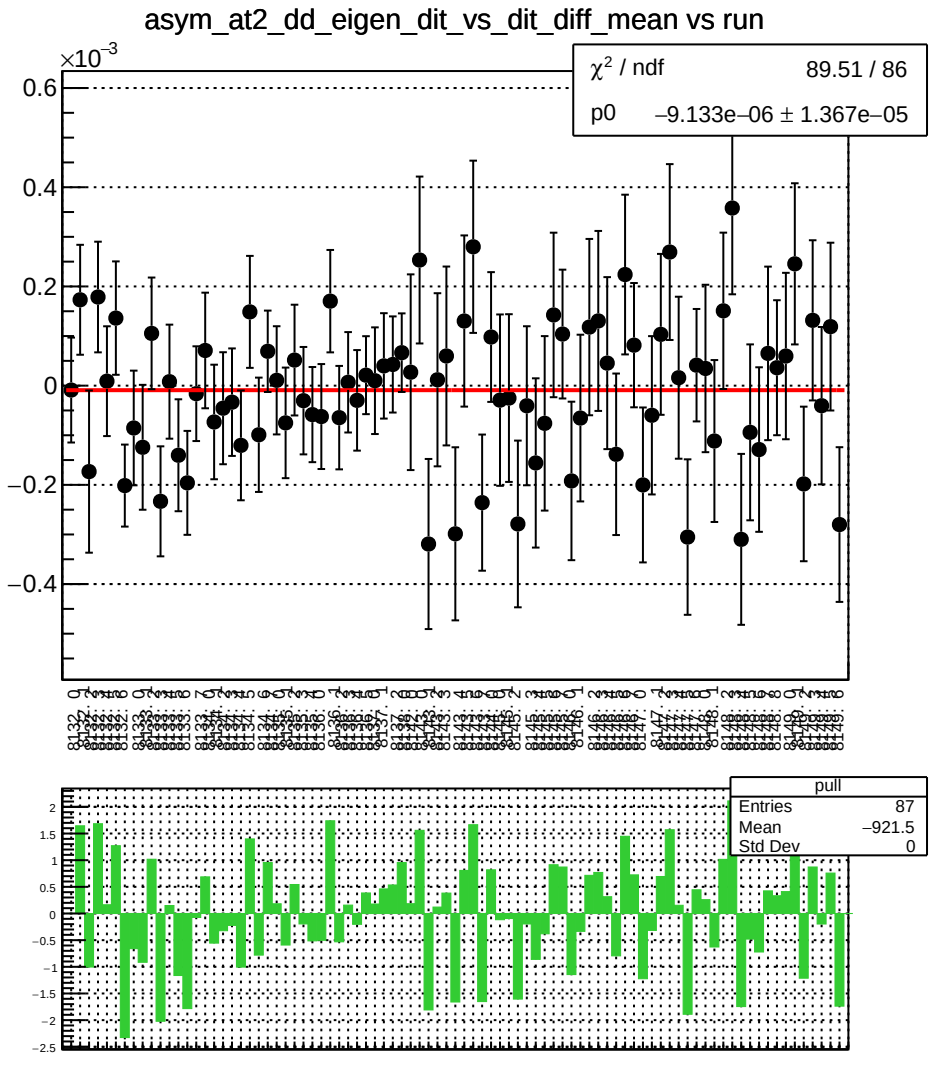

asym_at2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.436e+06 / 86
p0 3.785e−11 ± 7.114e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

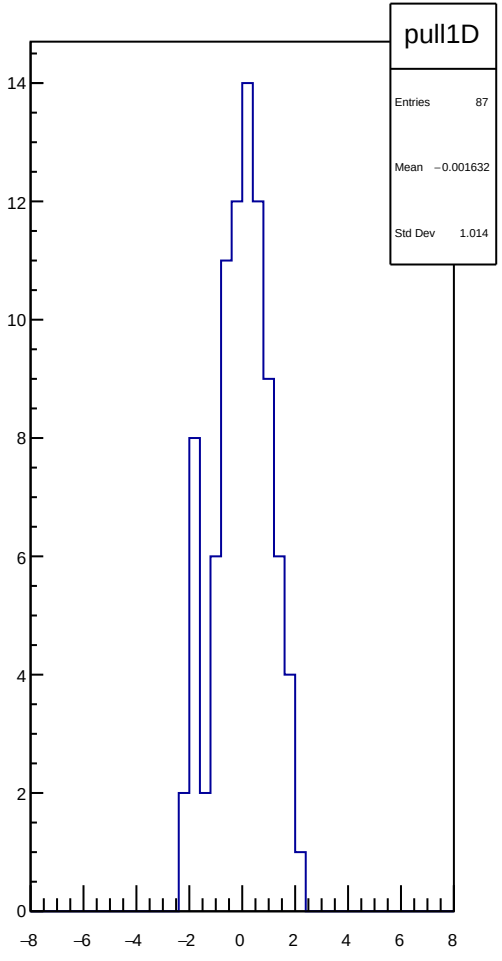

asym_at2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 68.08 / 86
p0 0.04595 ± 0.05893
pull
Entries 87
Mean −39.66
Std Dev 0
pull1D
Entries 87
Mean 0.03954
Std Dev 0.8838

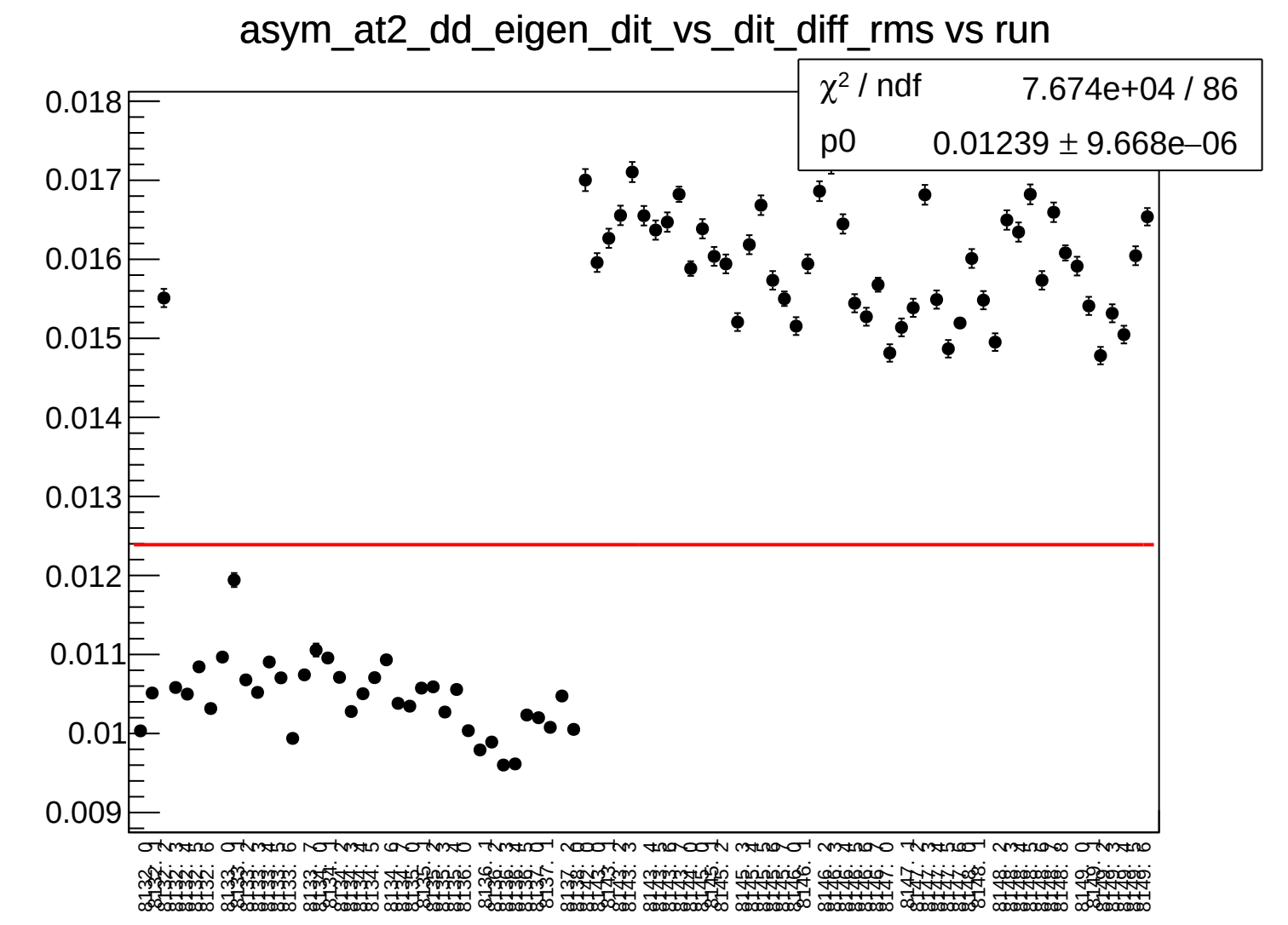

asym_at2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.316e+05 / 86
p0 52.5 ± 0.04167
300
250
200
150
100
50

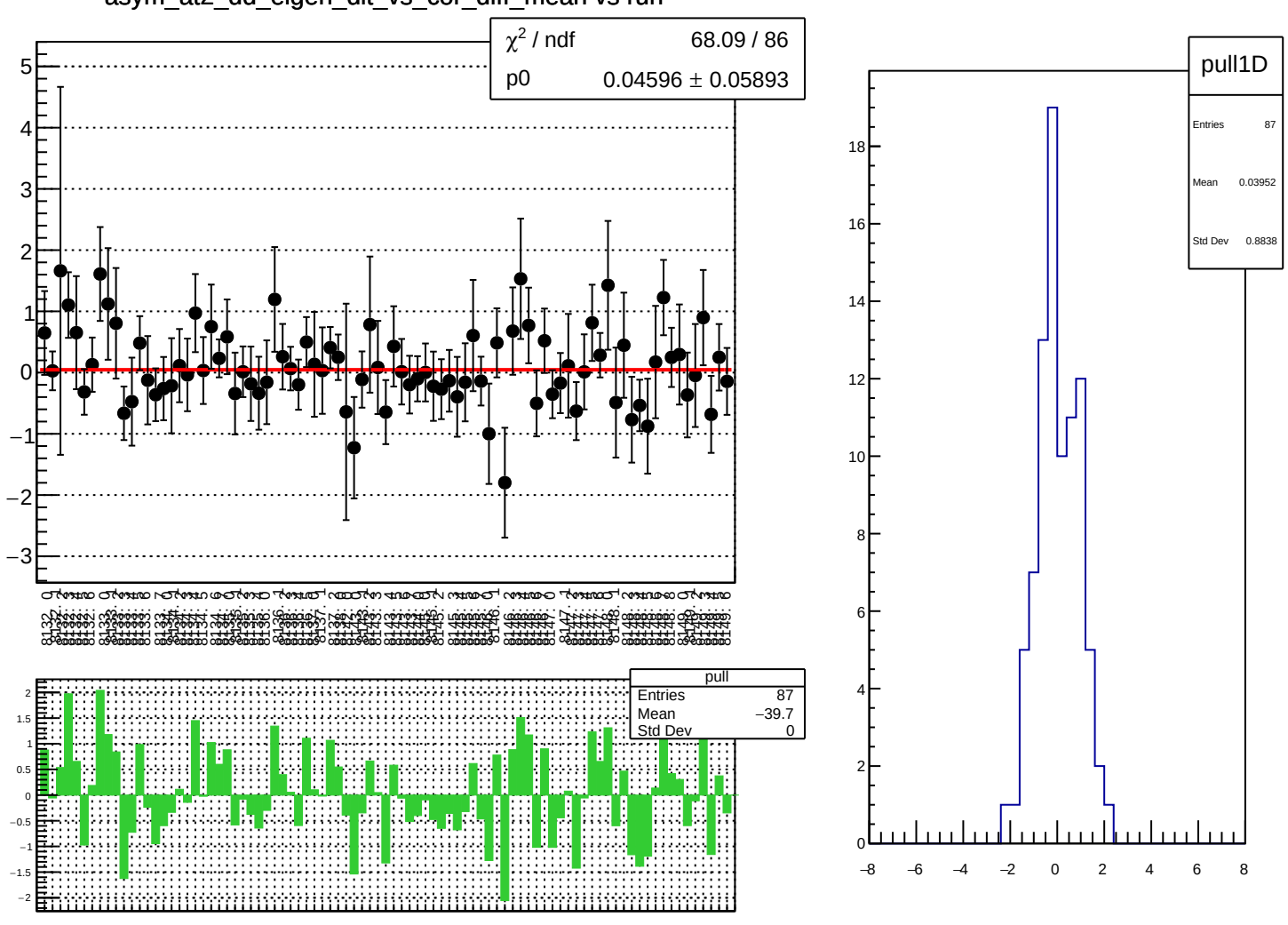

asym_at2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.08 / 86
p0 0.04595 ± 0.05893
pull
Entries 87
Mean −39.66
Std Dev 0
pull1D
Entries 87
Mean 0.03954
Std Dev 0.8838

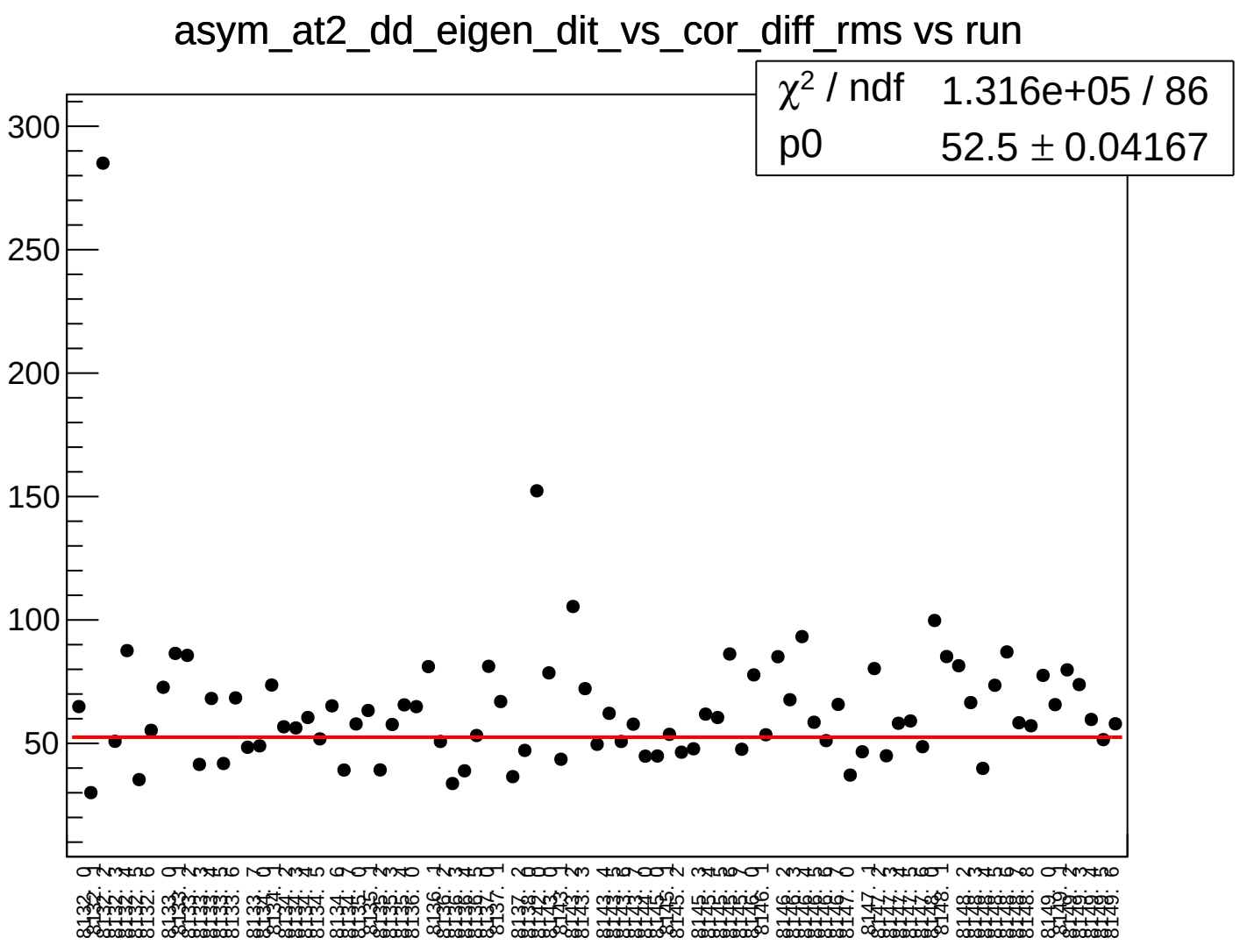

asym_at2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.316e+05 / 86
p0 52.5 ± 0.04167
300
250
200
150
100
50

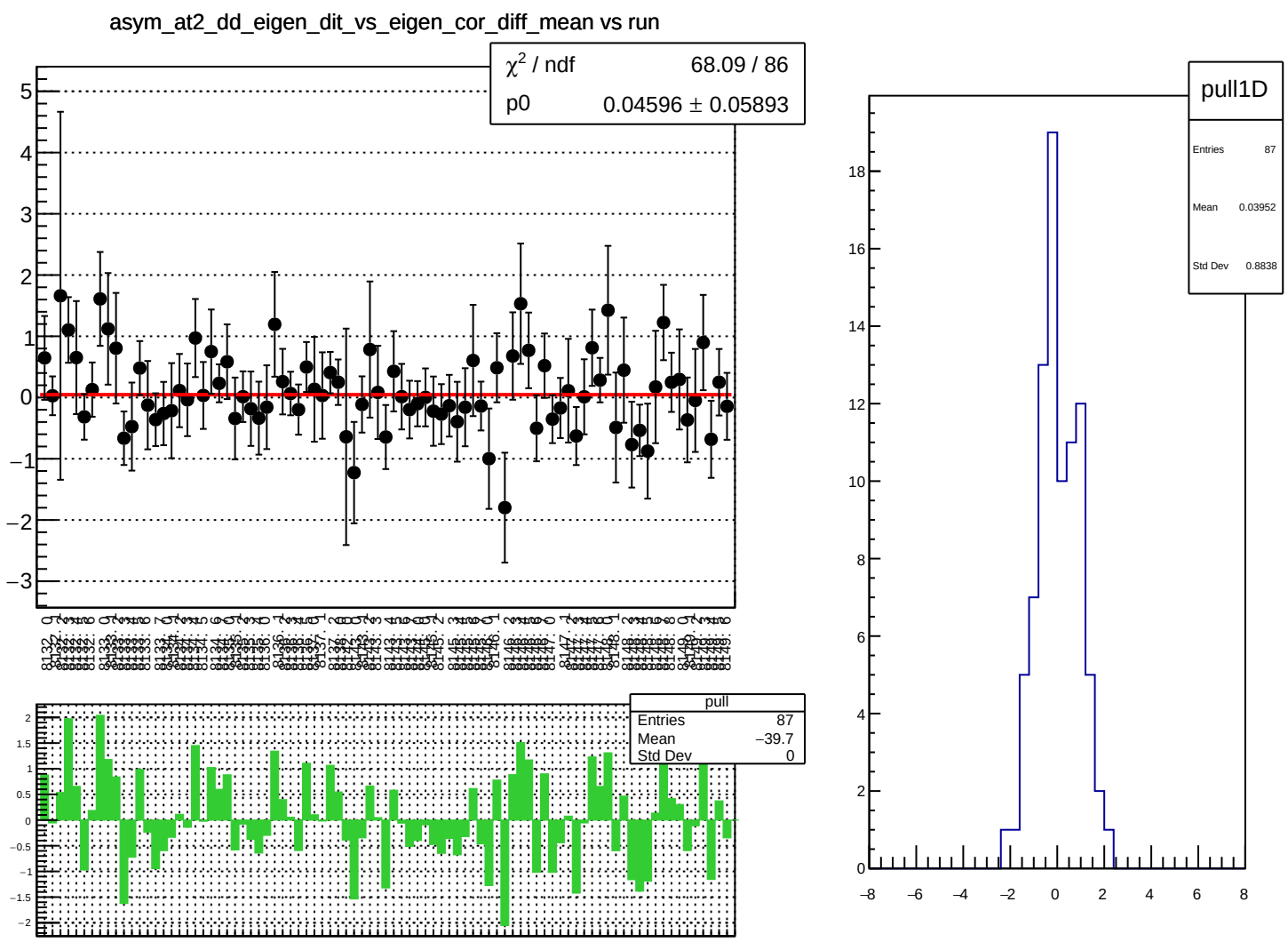

asym_at2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.51 / 86
p0 −9.133e−06 ± 1.367e−05
pull
Entries 87
Mean −921.5
Std Dev 0

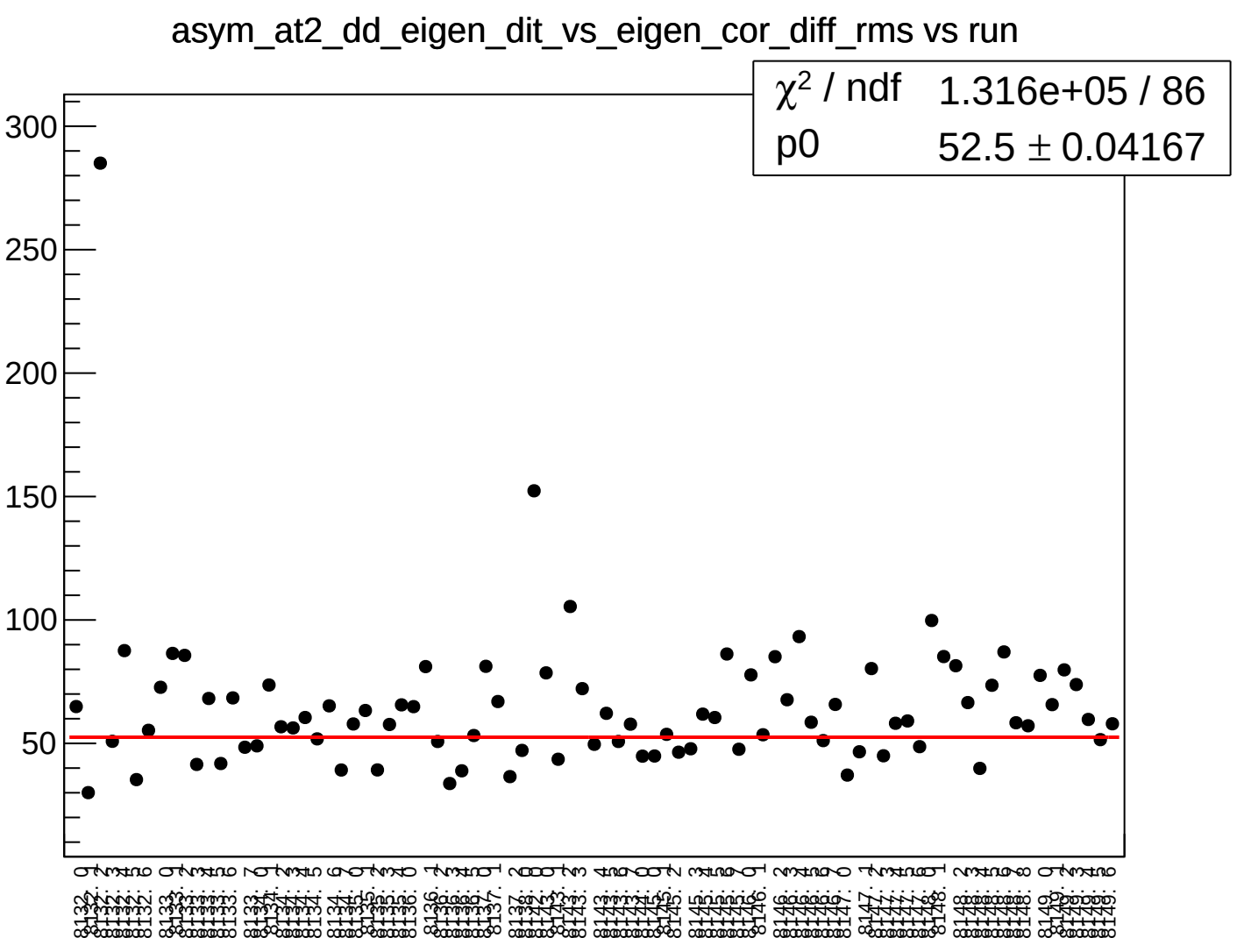

pull1D
Entries 87
Mean −0.001632
Std Dev 1.014

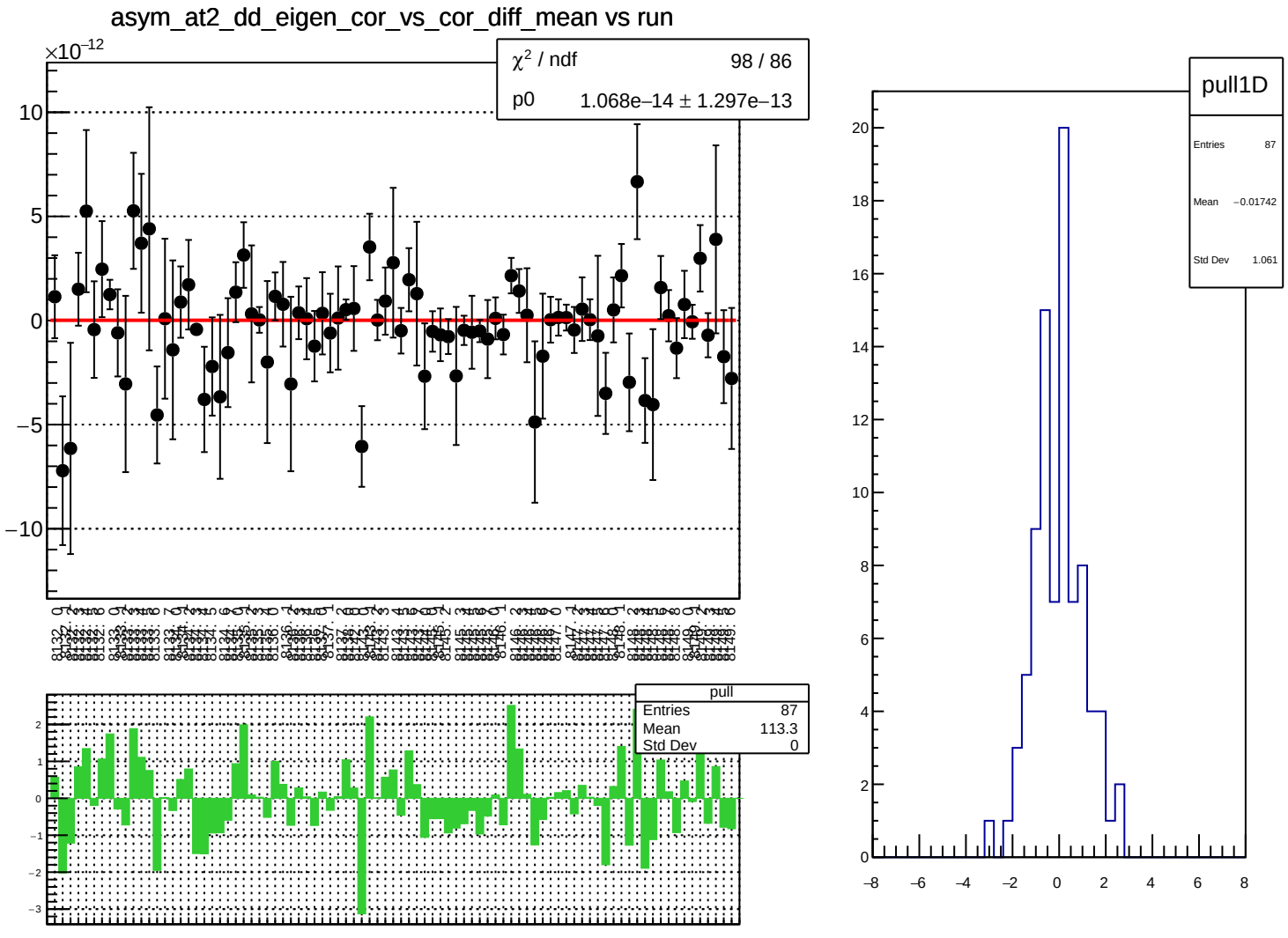

asym_at2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.674e+04 / 86
p0 0.01239 ± 9.668e–06
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009

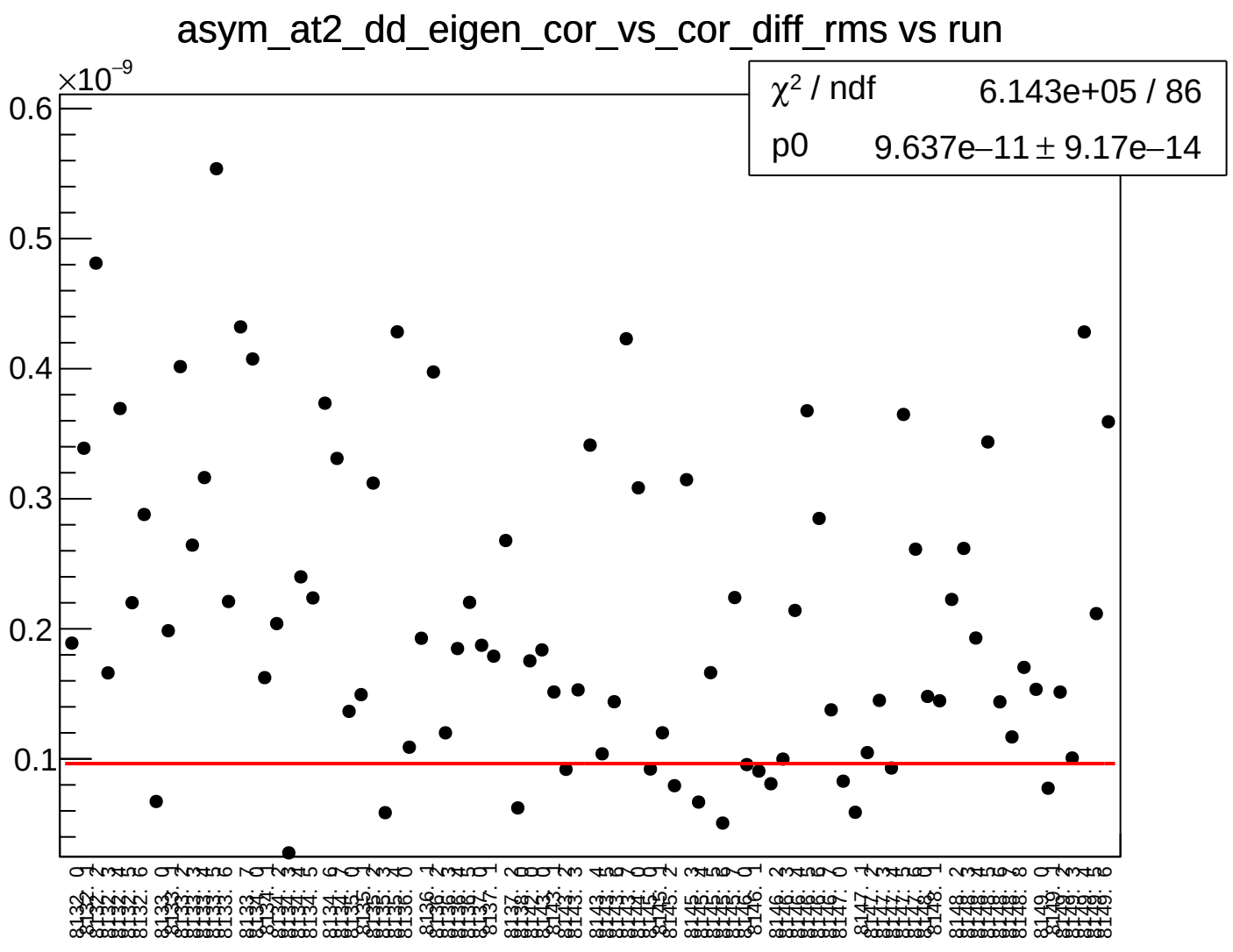

asym_at2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 68.09 / 86
p0 0.04596 ± 0.05893
pull
Entries 87
Mean −39.7
Std Dev 0
pull1D
Entries 87
Mean 0.03952
Std Dev 0.8838

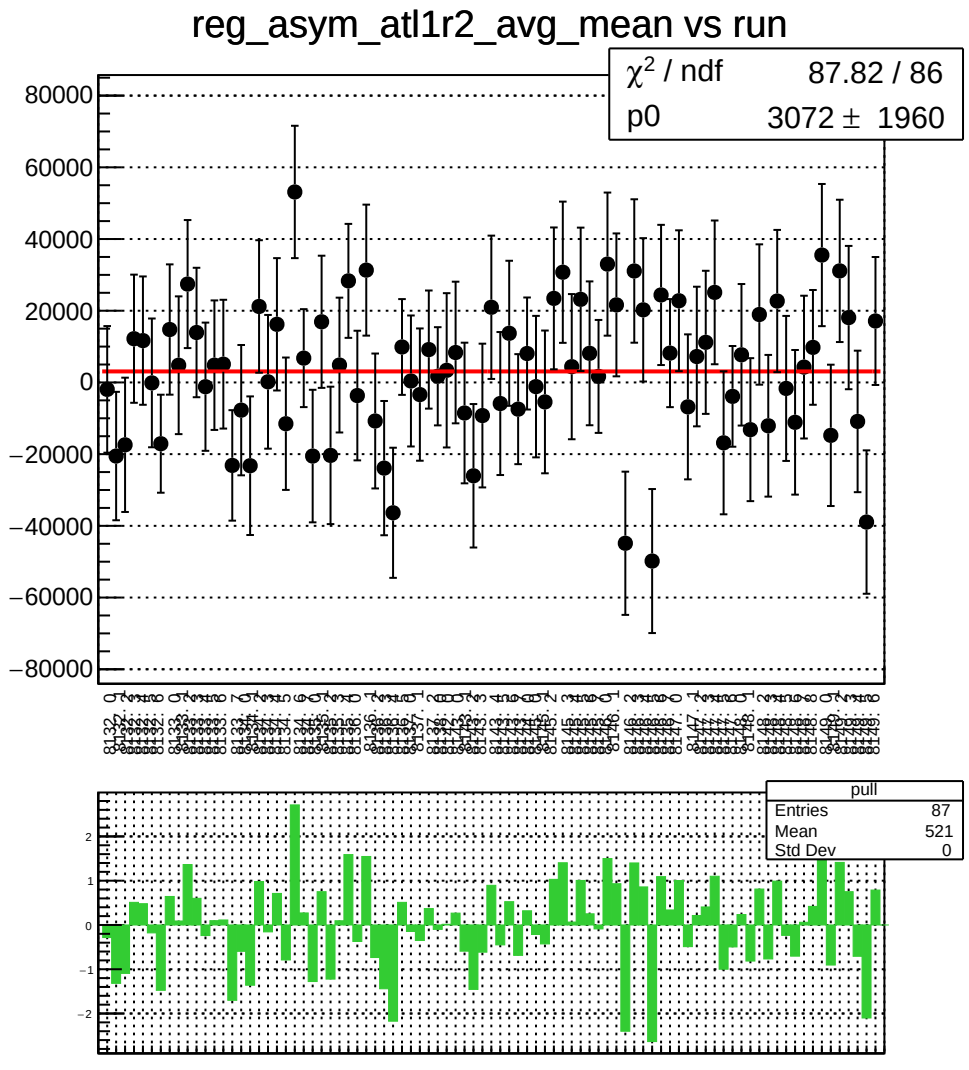

asym_at2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.316e+05 / 86
p0 52.5 ± 0.04167
300
250
200
150
100
50

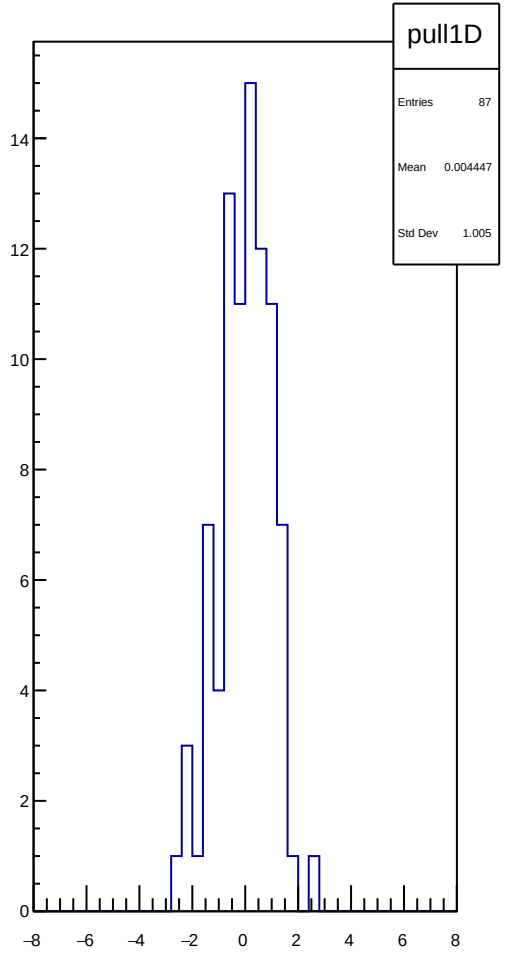

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.09 / 86
p0 0.04596 ± 0.05893
pull
Entries 87
Mean −39.7
Std Dev 0
pull1D
Entries 87
Mean 0.03952
Std Dev 0.8838

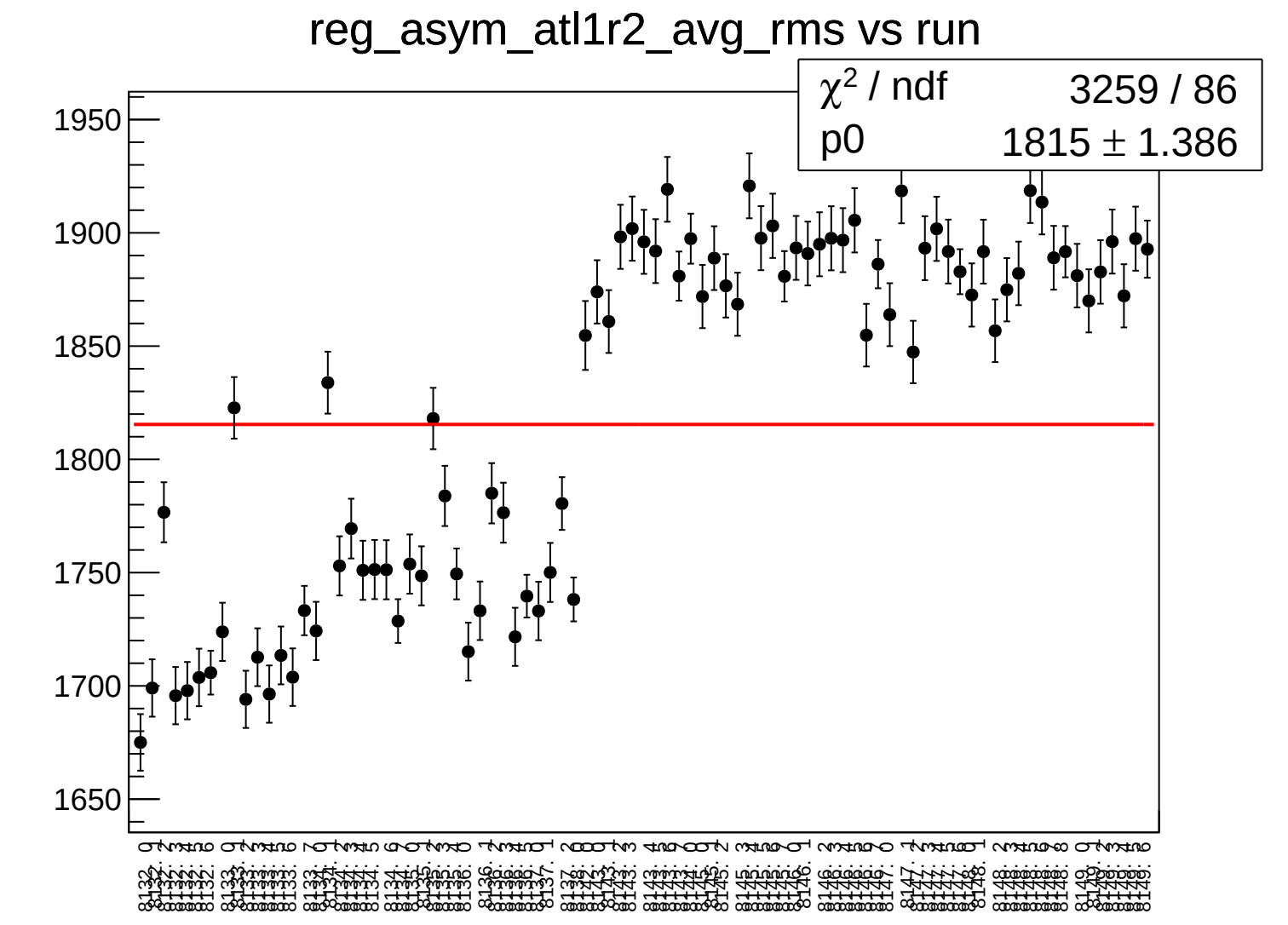

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.316e+05 / 86
p0 52.5 ± 0.04167
300
250
200
150
100
50

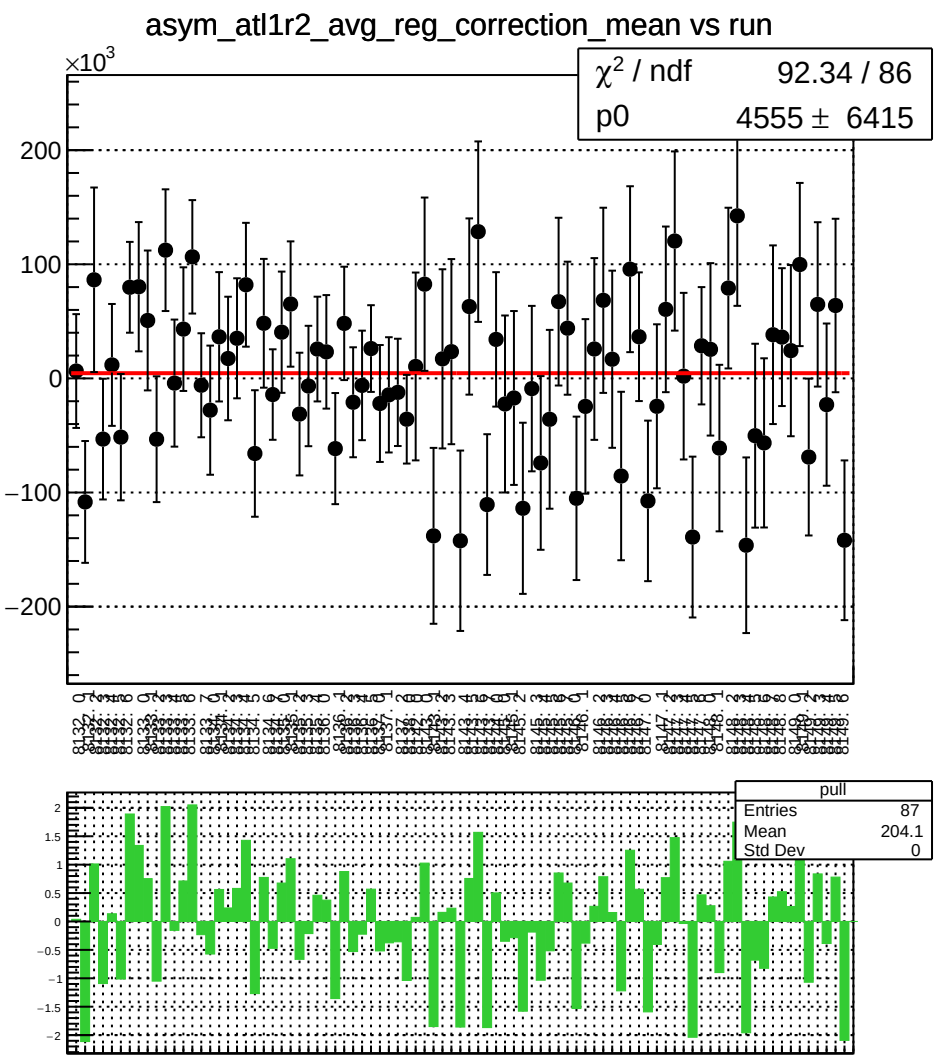

asym_at2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98 / 86
p0 1.068e−14 ± 1.297e−13
pull
Entries 87
Mean 113.3
Std Dev 0
pull1D
Entries 87
Mean −0.01742
Std Dev 1.061

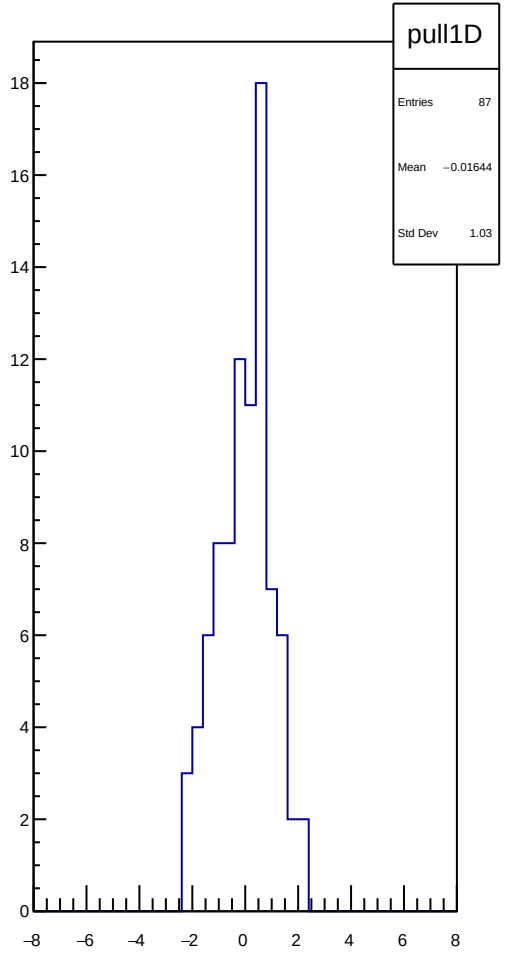

asym_at2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.143e+05 / 86
p0 9.637e−11 ± 9.17e−14
0.6
0.5
0.4
0.3
0.2
0.1

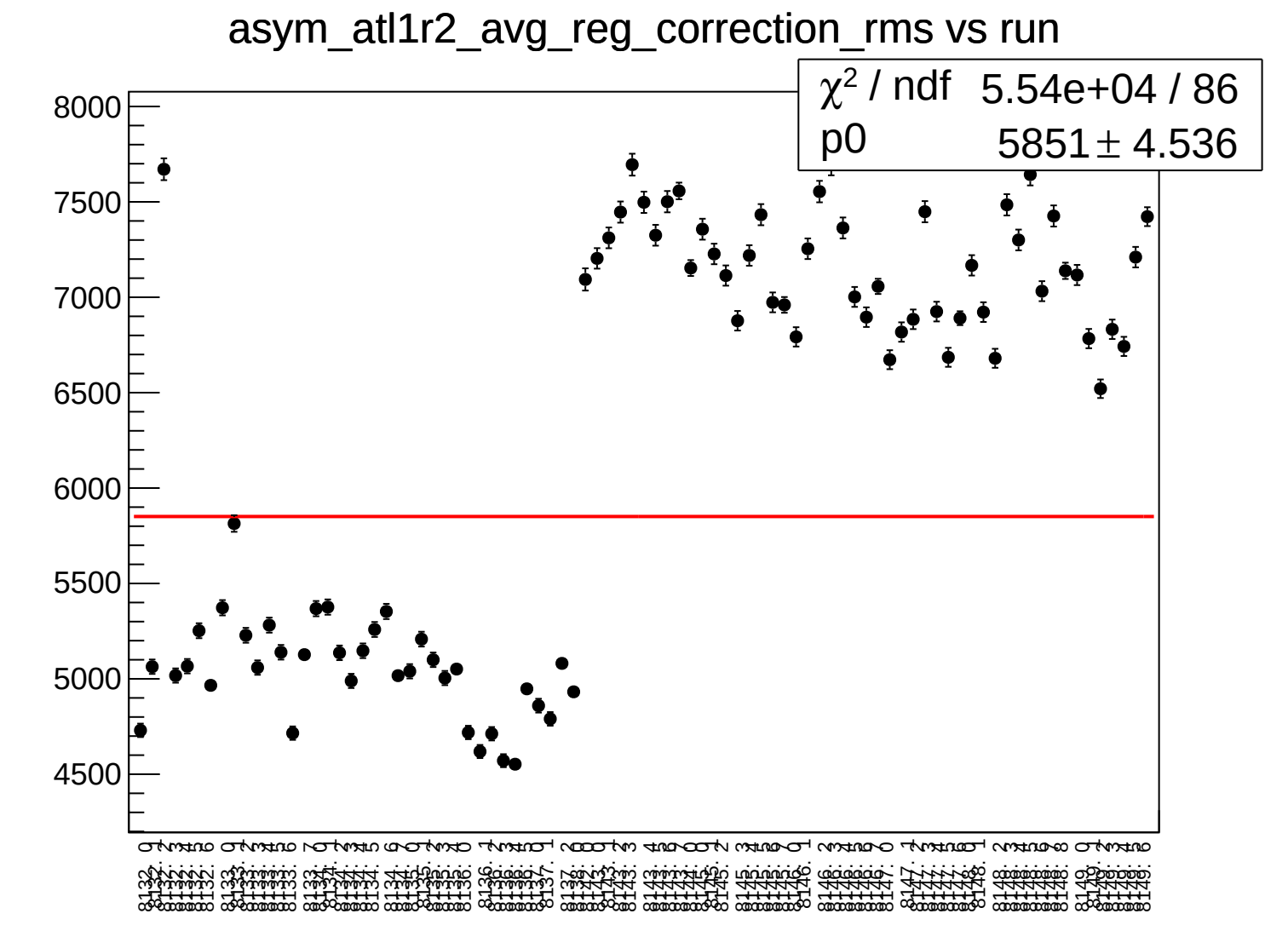

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 87.82 / 86
p0 3072 ± 1960
pull
Entries 87
Mean 521
Std Dev 0

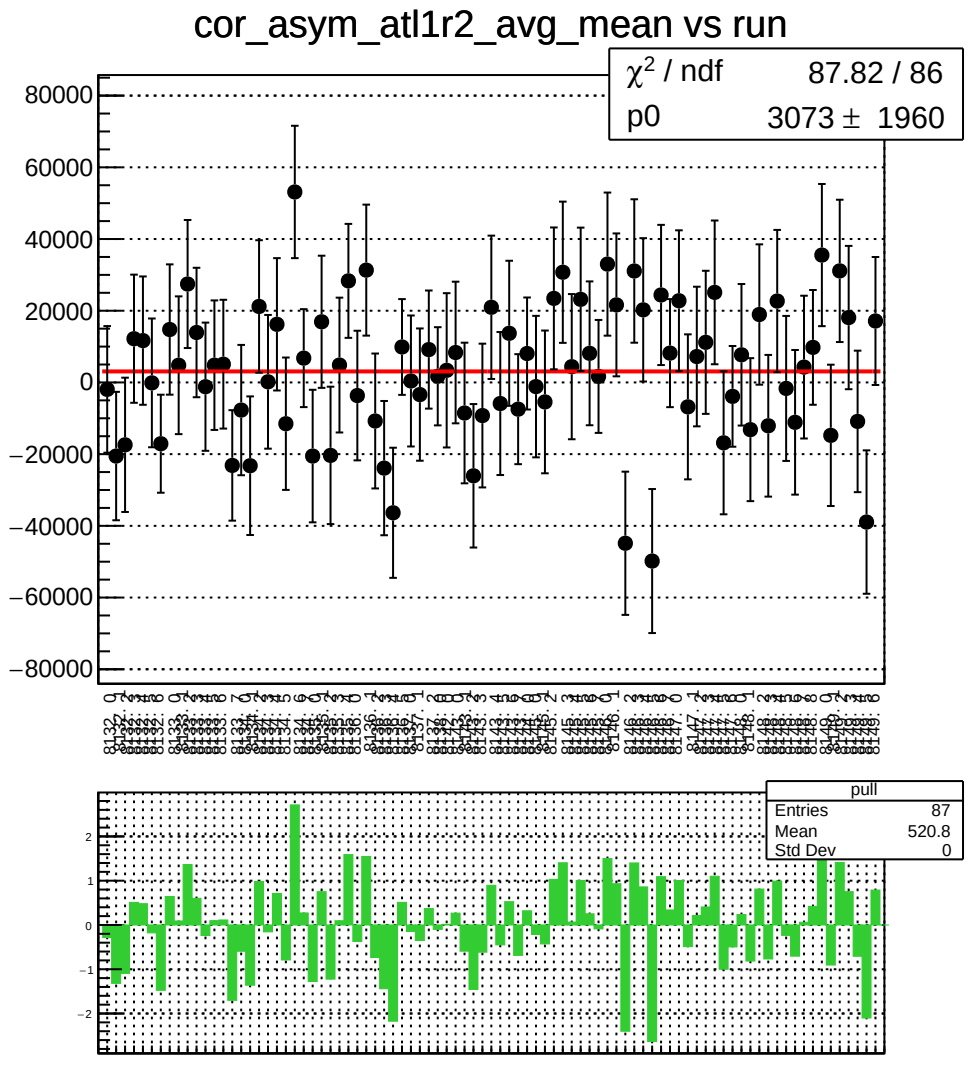

pull1D
Entries 87
Mean 0.004447
Std Dev 1.005

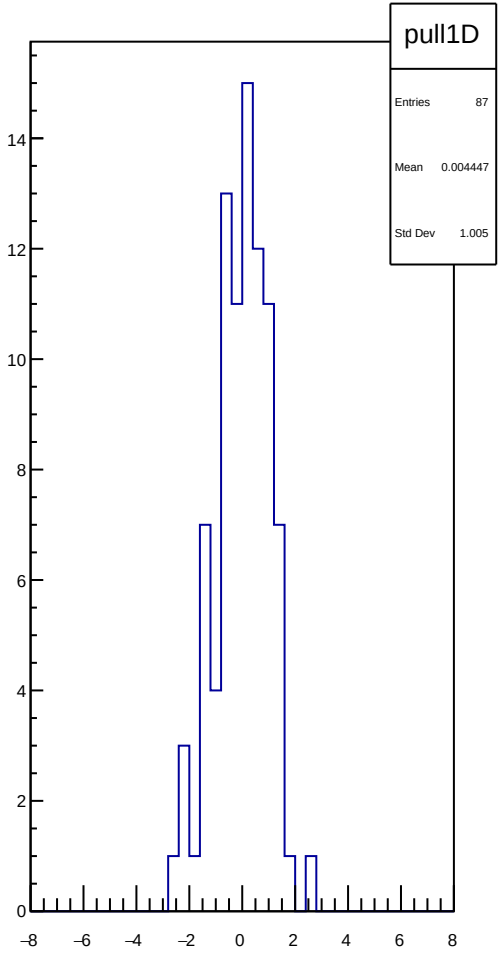

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 3259 / 86
p0 1815 ± 1.386
1950
1900
1850
1800
1750
1700
1650

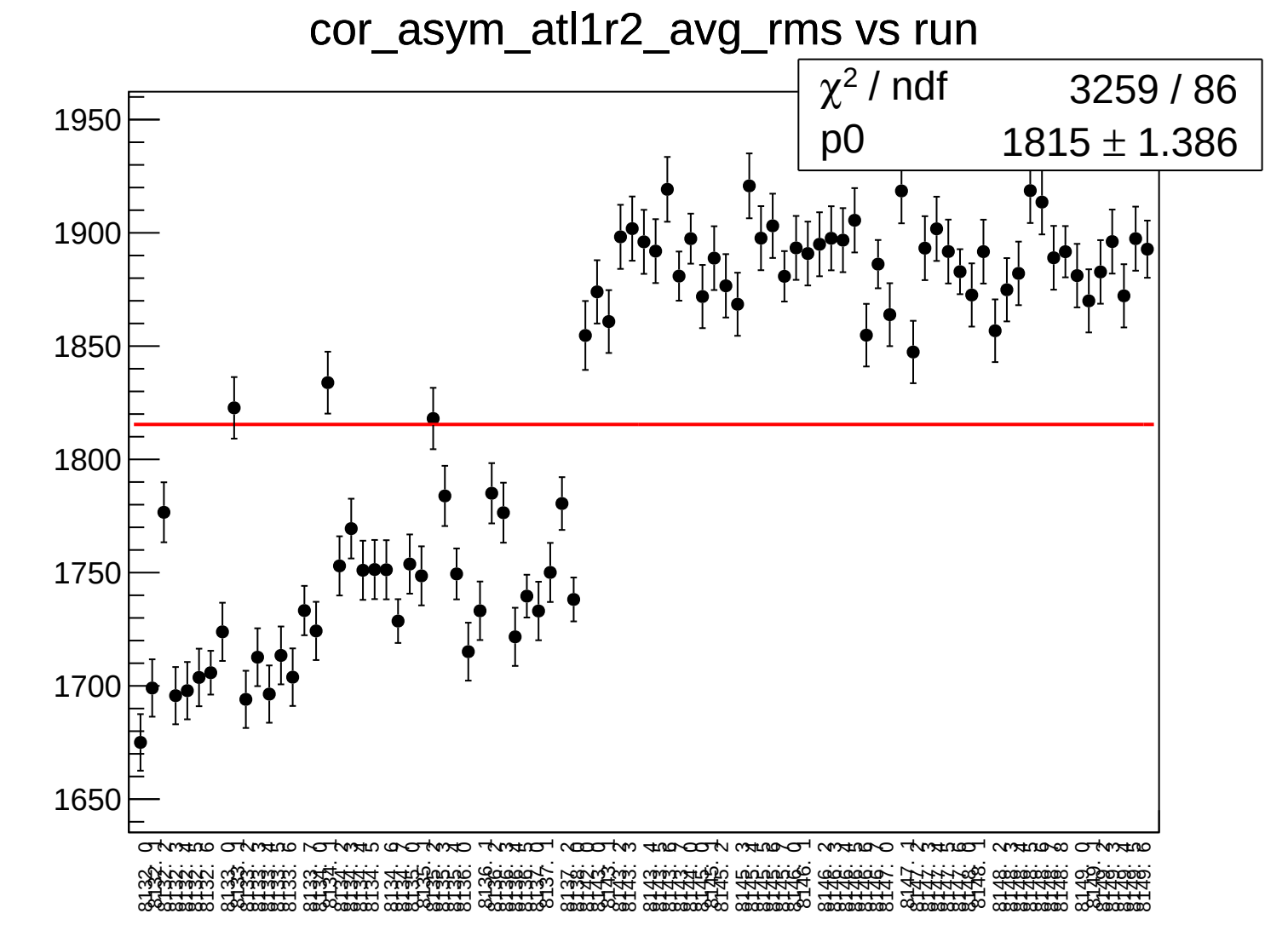

asym_atl1r2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 92.34 / 86
p0 4555 ± 6415
200
100
0
−100
−200
pull
Entries 87
Mean 204.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

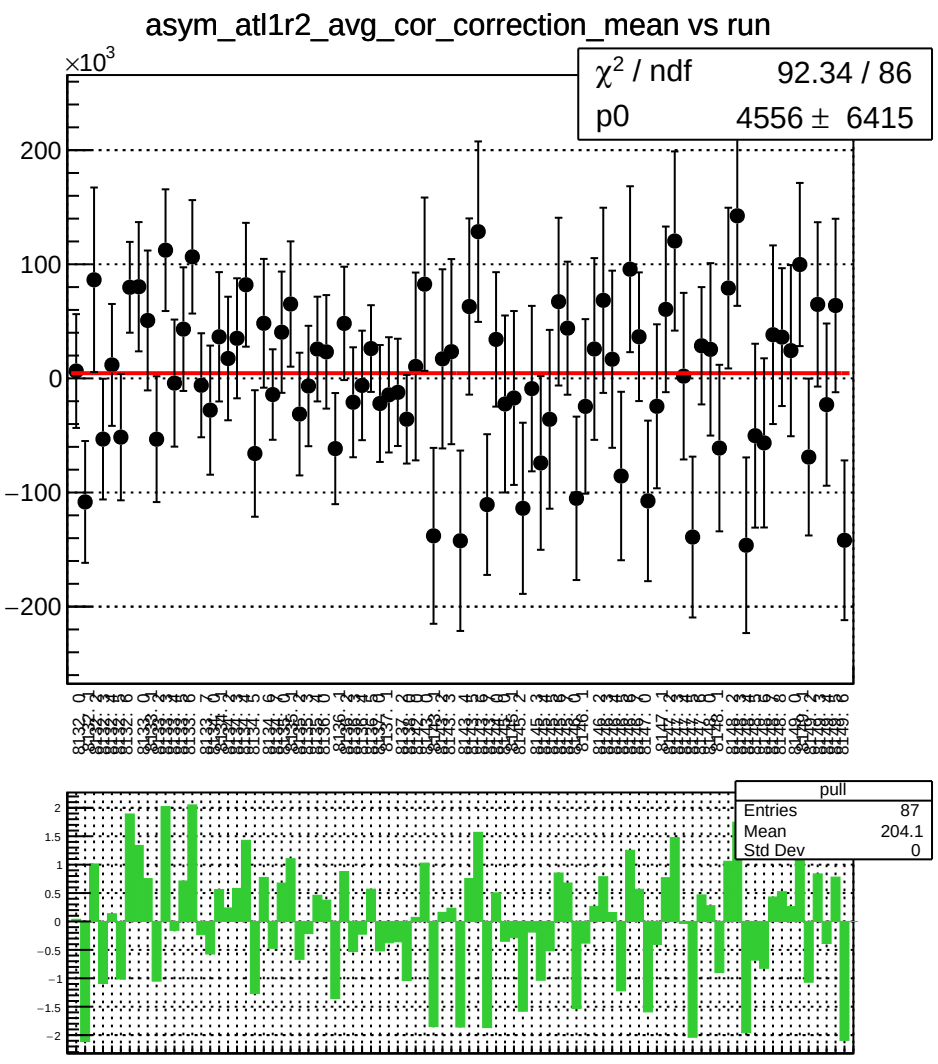

pull1D
Entries 87
Mean −0.01644
Std Dev 1.03
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

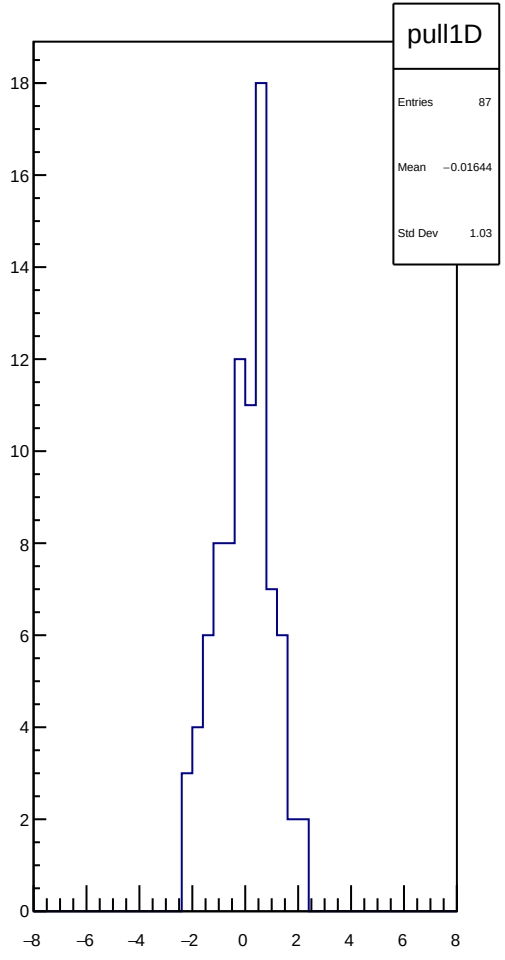

asym_atl1r2_avg_reg_correction_rms vs run
χ² / ndf 5.54e+04 / 86
p0 5851 ± 4.536
8000
7500
7000
6500
6000
5500
5000
4500

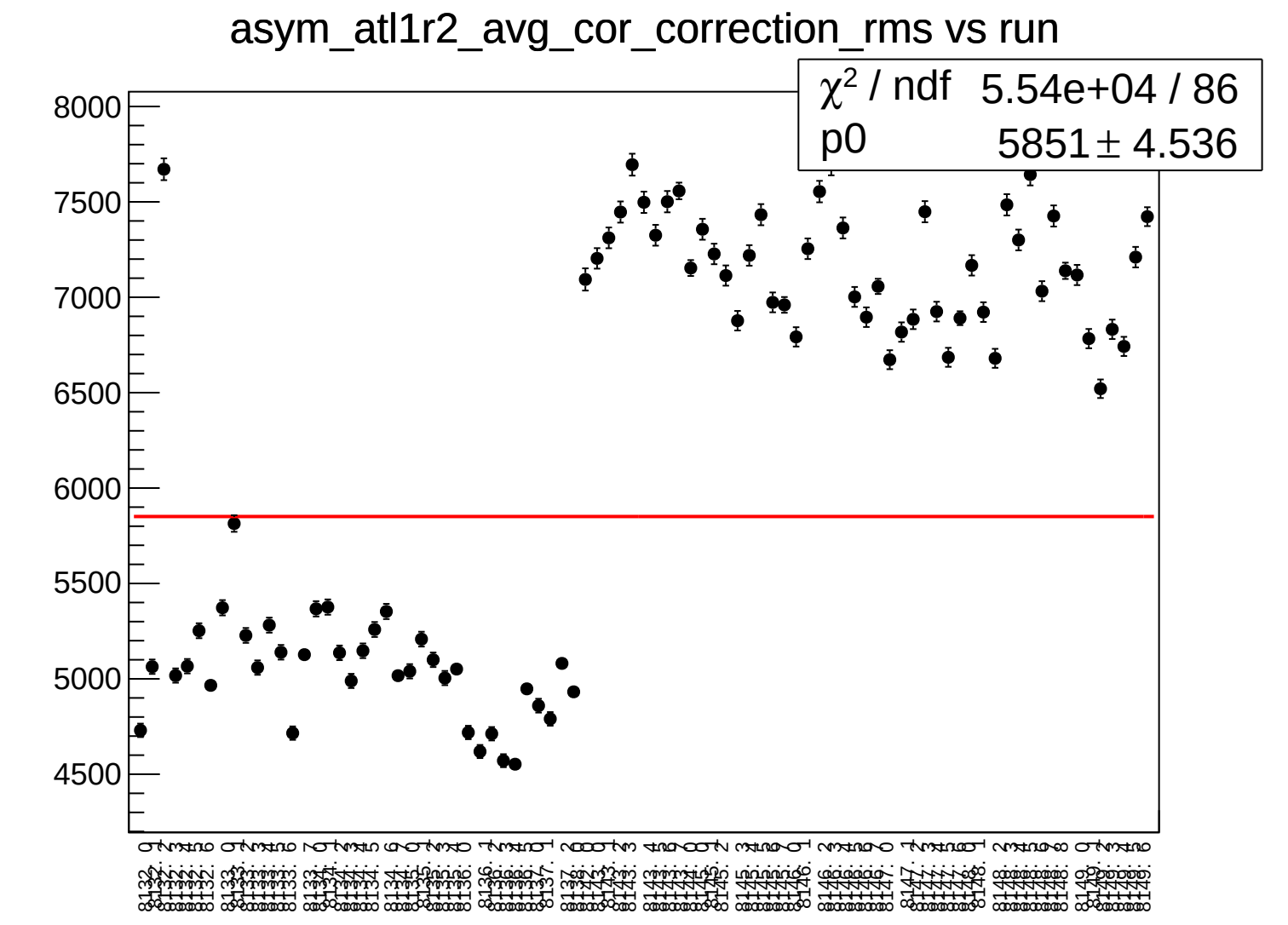

cor_asym_atl1r2_avg_mean vs run
χ² / ndf 87.82 / 86
p0 3073 ± 1960
pull
Entries 87
Mean 520.8
Std Dev 0

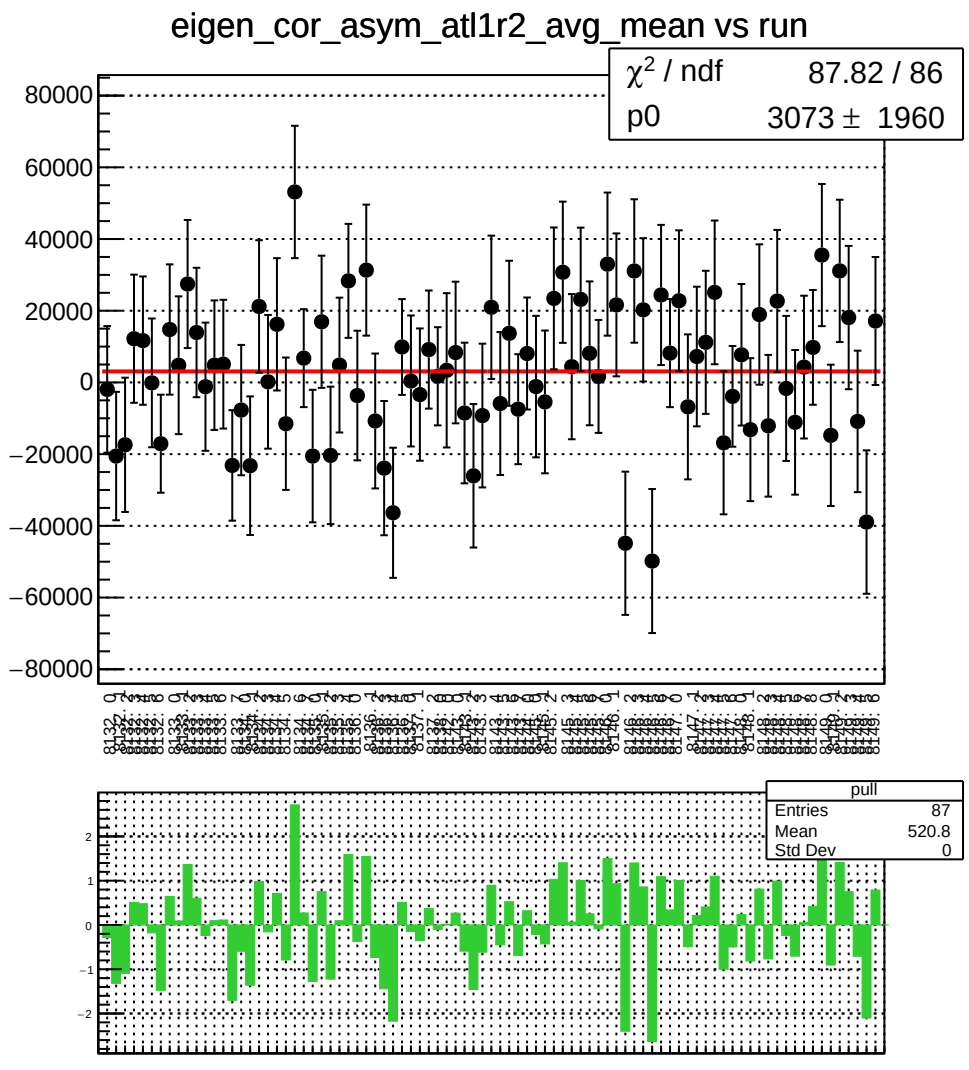

pull1D
Entries 87
Mean 0.004447
Std Dev 1.005

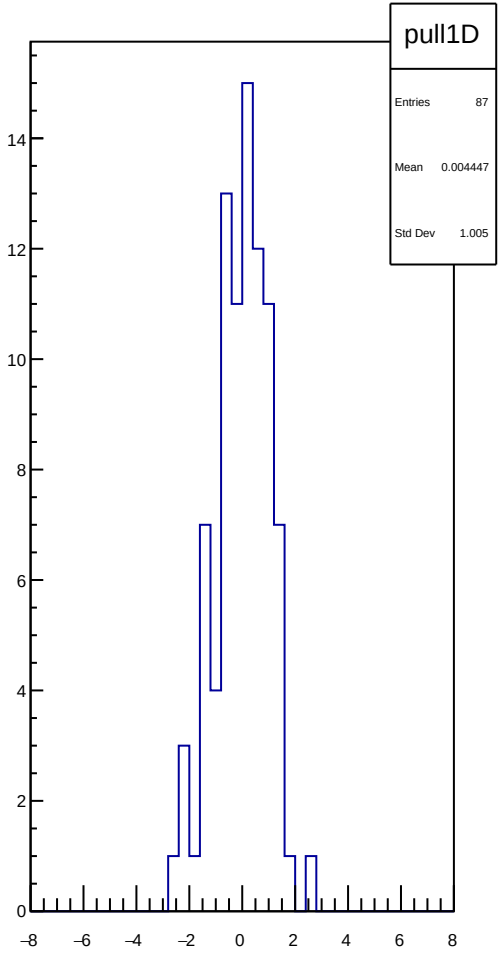

cor_asym_atl1r2_avg_rms vs run
χ^2 / ndf 3259 / 86
p0 1815 ± 1.386
1950
1900
1850
1800
1750
1700
1650

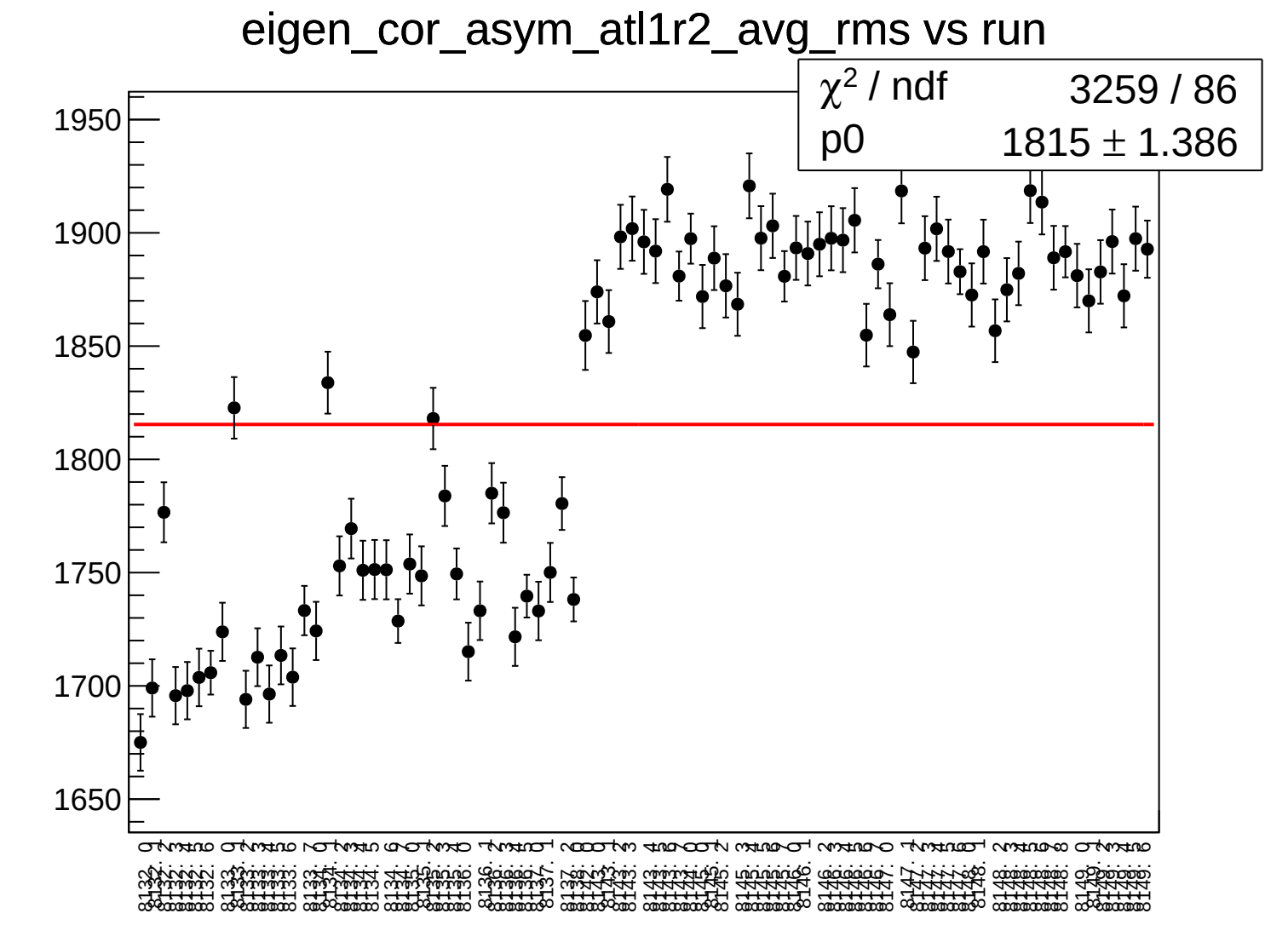

asym_atl1r2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 92.34 / 86
p0 4556 ± 6415
200
100
0
−100
−200
pull
Entries 87
Mean 204.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

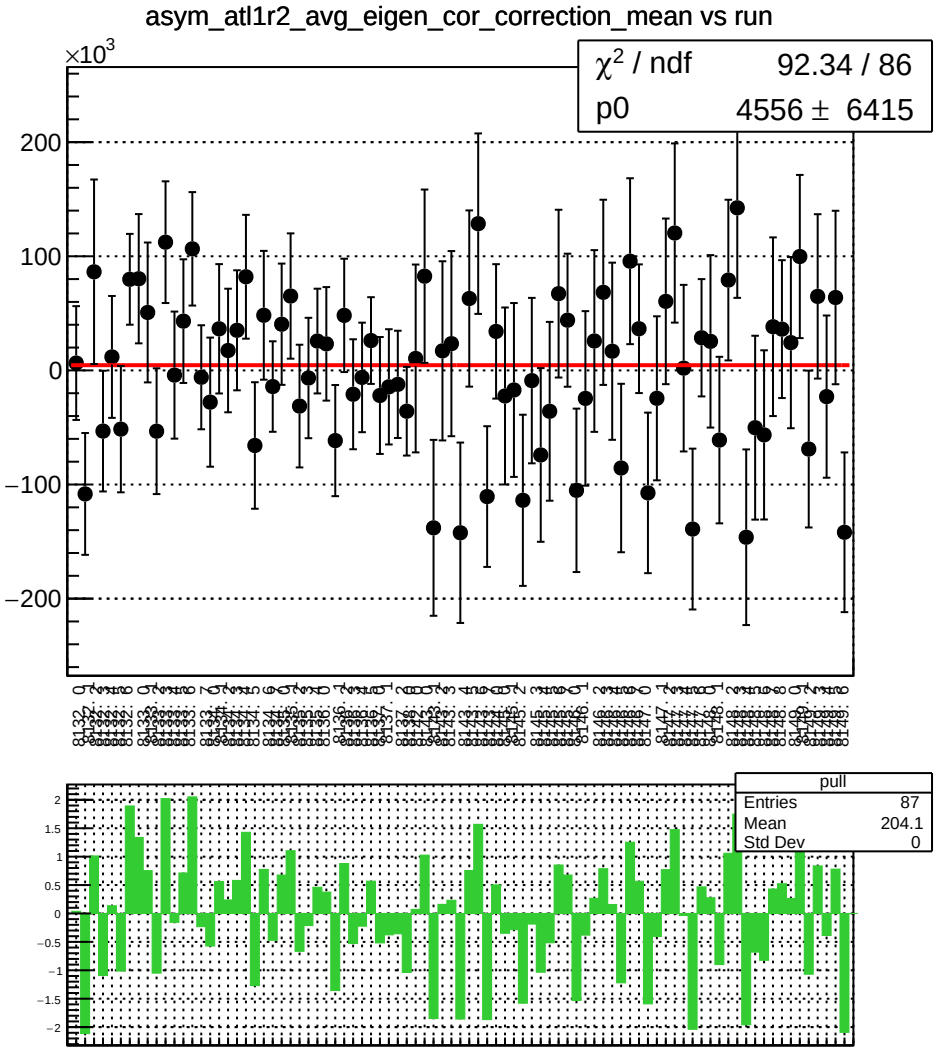

pull1D
Entries 87
Mean −0.01644
Std Dev 1.03
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

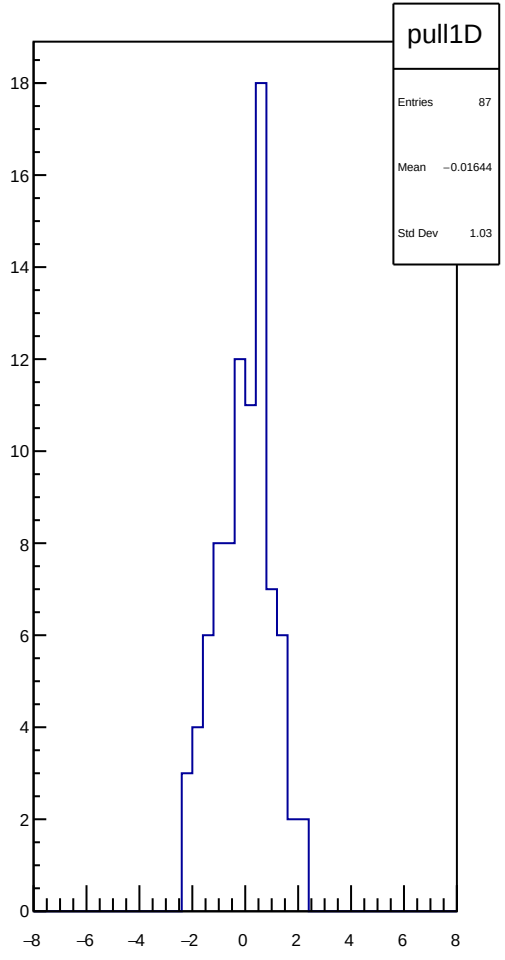

asym_atl1r2_avg_cor_correction_rms vs run
χ² / ndf 5.54e+04 / 86
p0 5851 ± 4.536
8000
7500
7000
6500
6000
5500
5000
4500

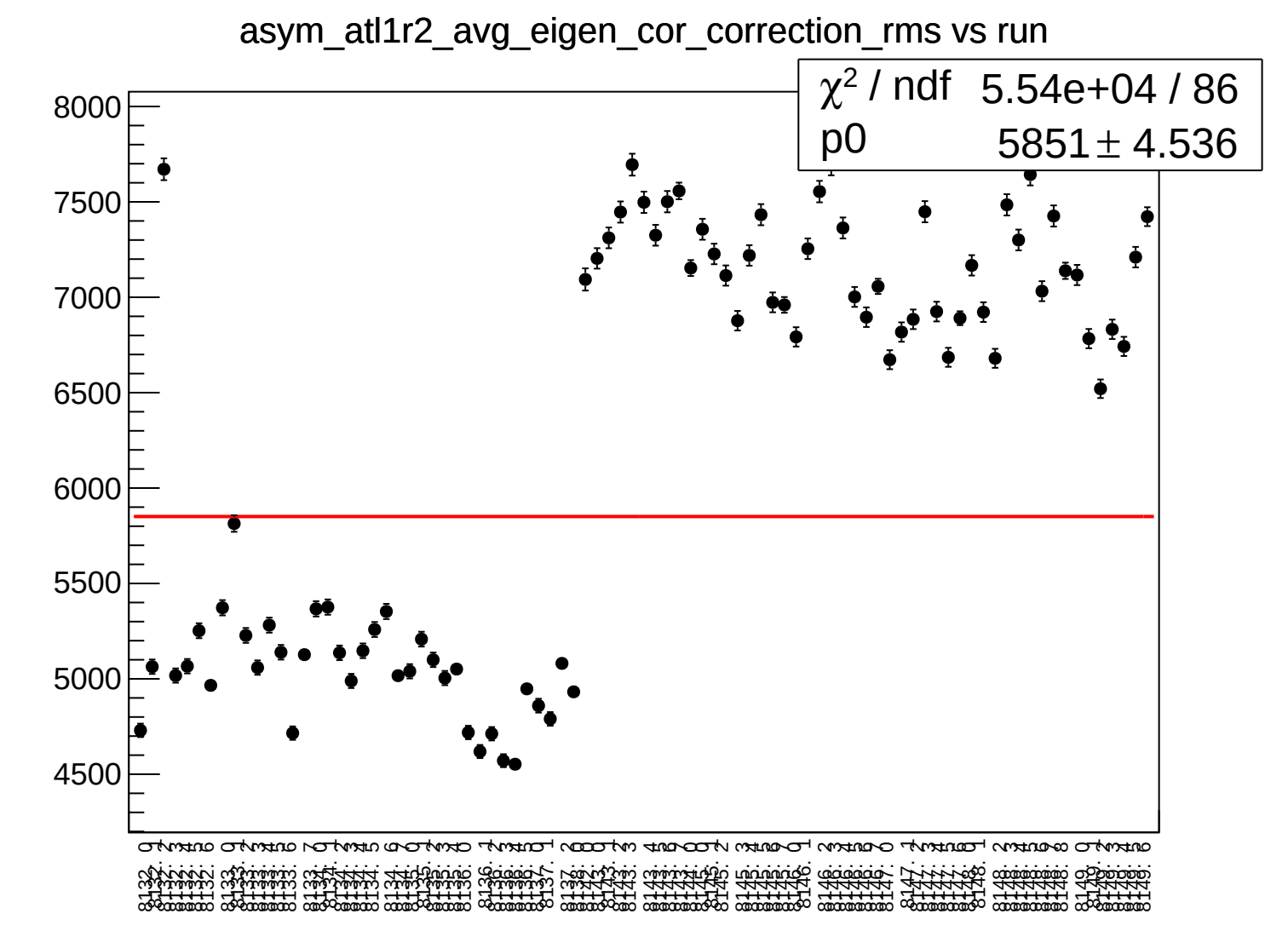

eigen_cor_asym_atl1r2_avg_mean vs run
χ² / ndf 87.82 / 86
p0 3073 ± 1960
pull
Entries 87
Mean 520.8
Std Dev 0

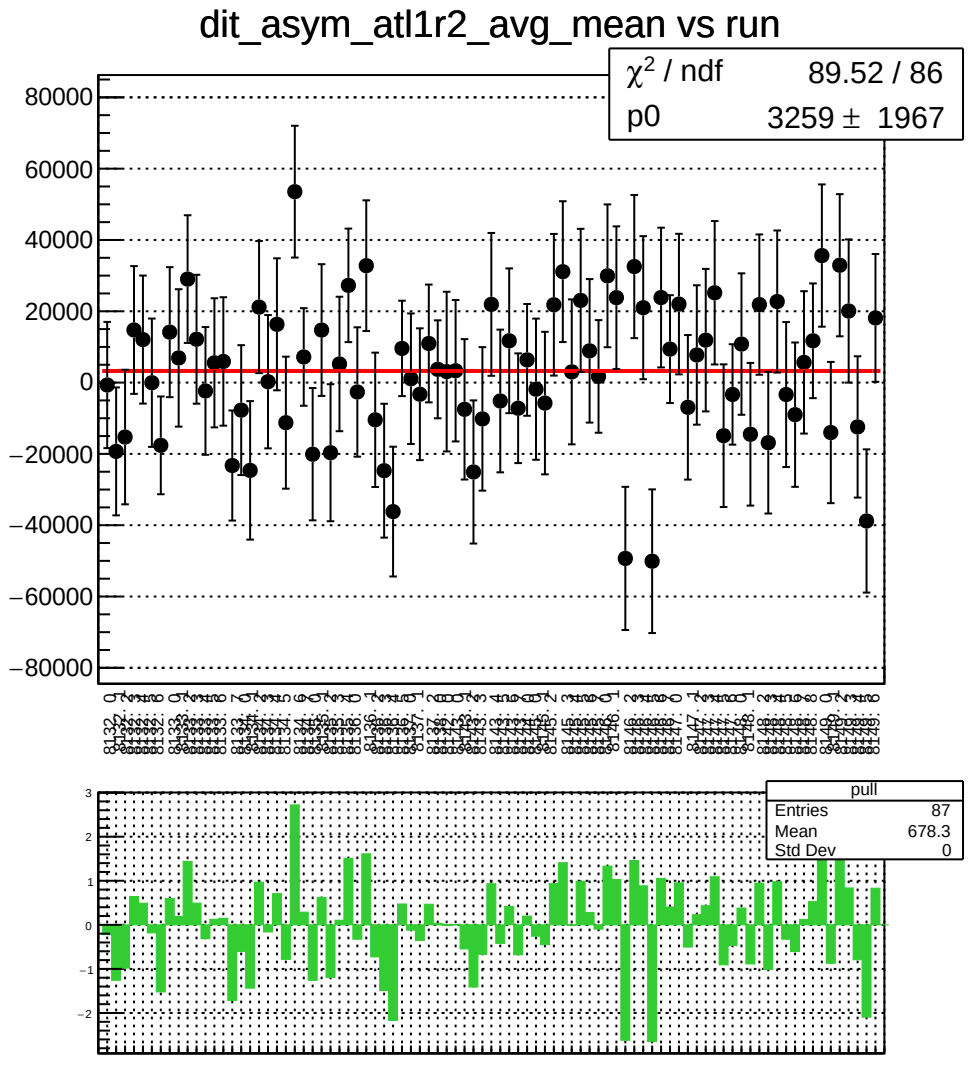

pull1D
Entries 87
Mean 0.004447
Std Dev 1.005

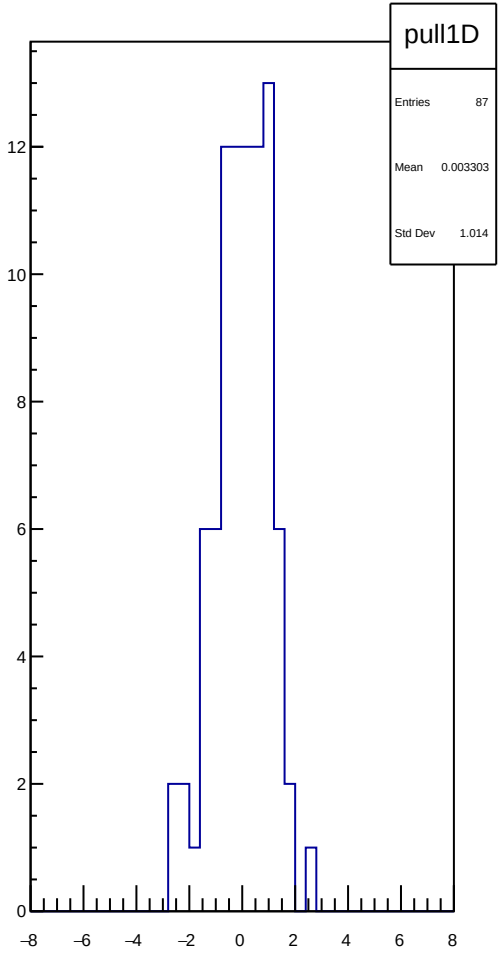

eigen_cor_asym_atl1r2_avg_rms vs run
χ² / ndf 3259 / 86
p0 1815 ± 1.386
1950
1900
1850
1800
1750
1700
1650

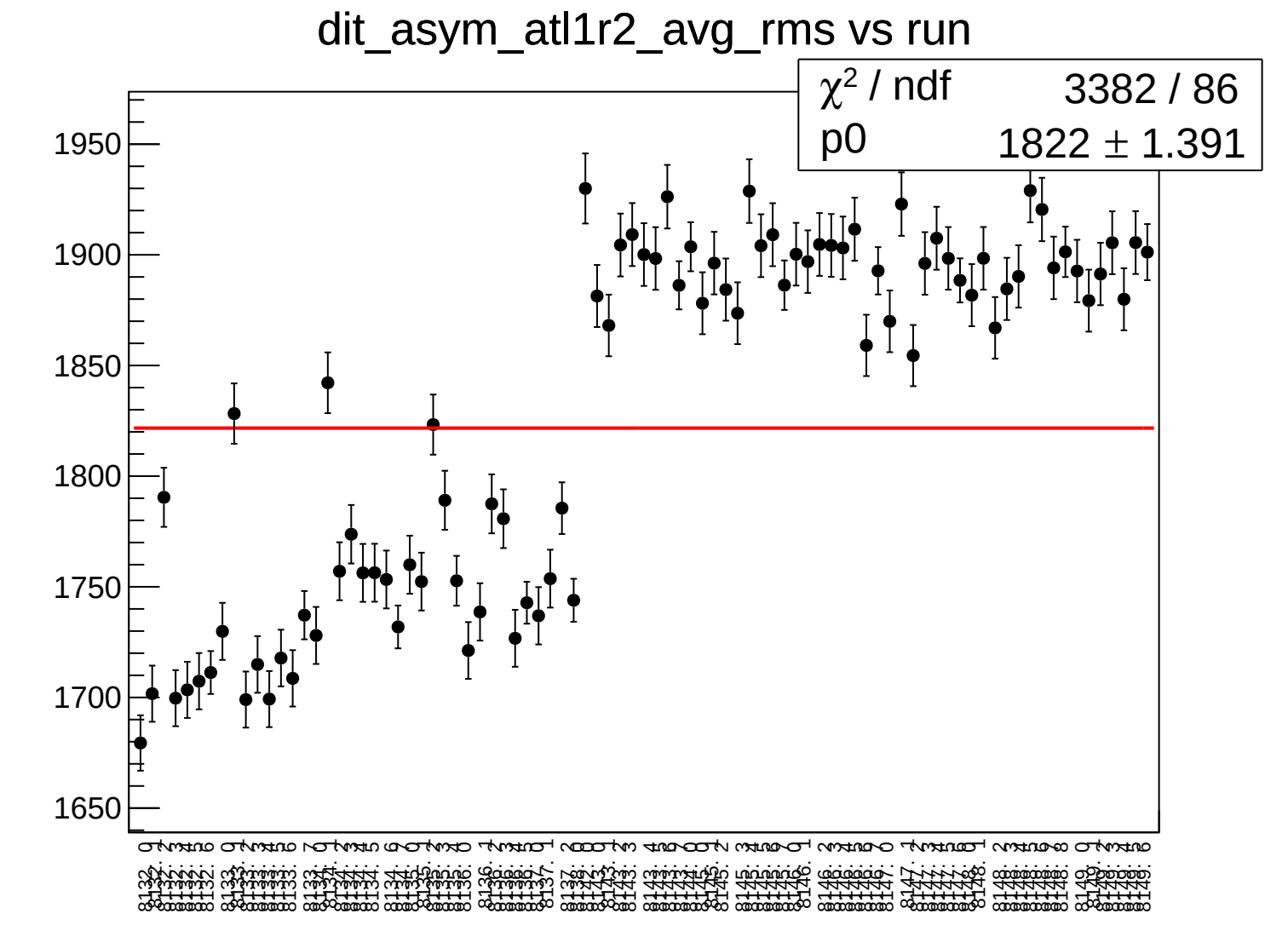

asym_atl1r2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 92.34 / 86
p0 4556 ± 6415
200
100
0
−100
−200
pull
Entries 87
Mean 204.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

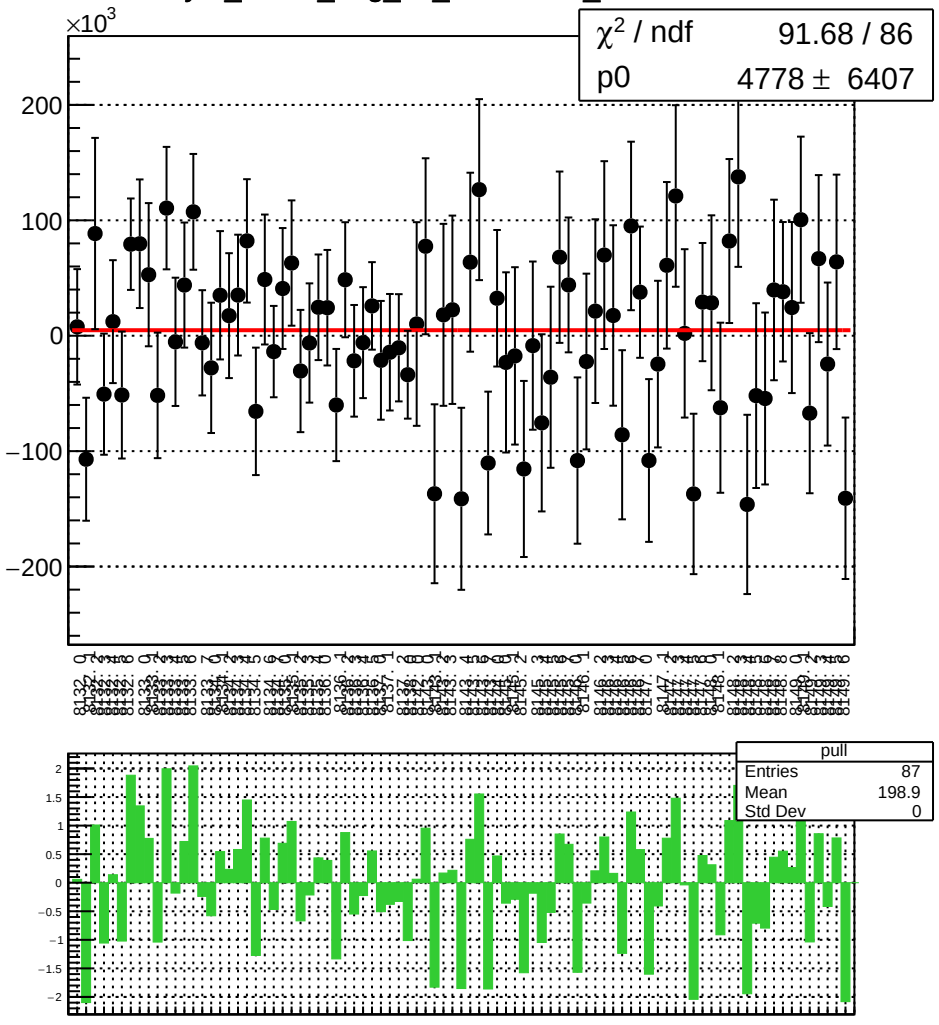

pull1D
Entries 87
Mean −0.01644
Std Dev 1.03
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

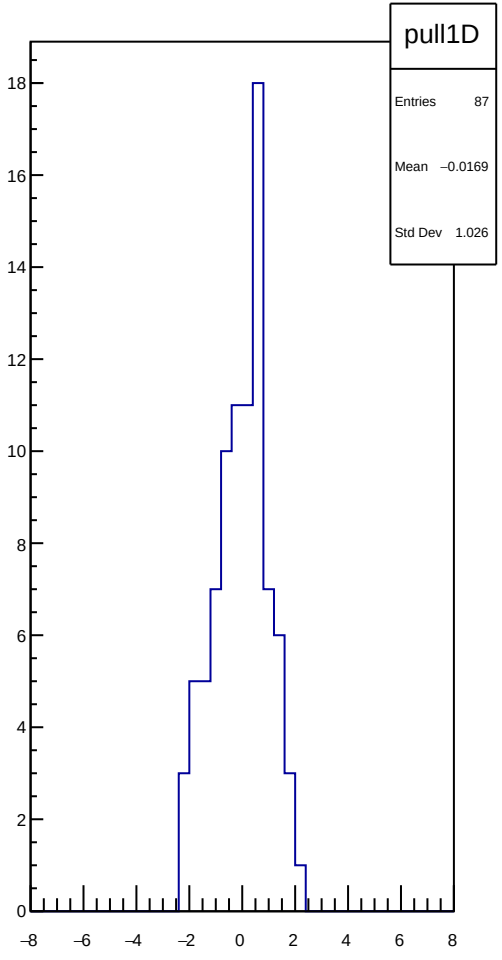

asym_atl1r2_avg_eigen_cor_correction_rms vs run
χ² / ndf 5.54e+04 / 86
p0 5851 ± 4.536
8000
7500
7000
6500
6000
5500
5000
4500

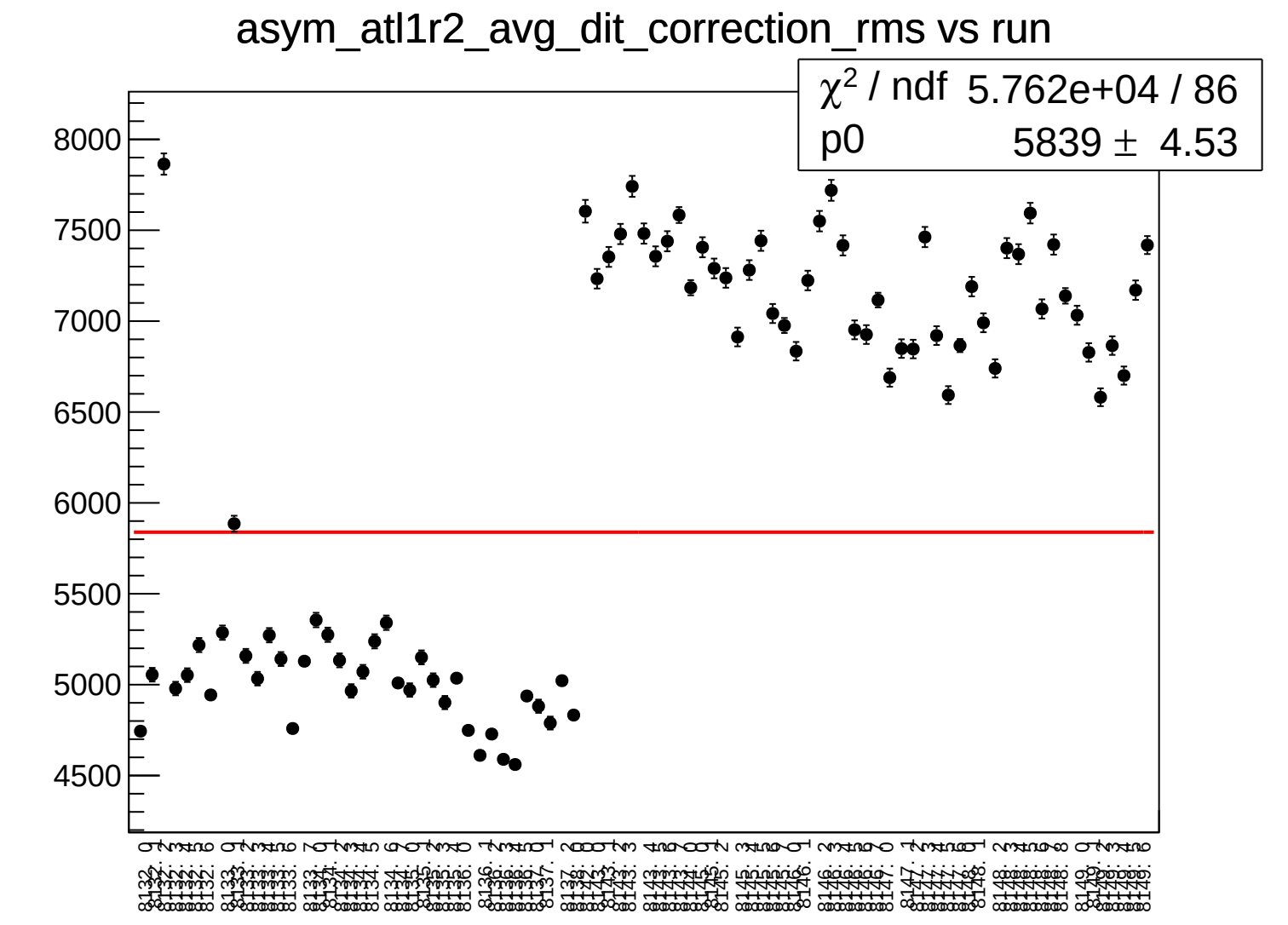

dit_asym_atl1r2_avg_mean vs run
χ² / ndf 89.52 / 86
p0 3259 ± 1967
pull
Entries 87
Mean 678.3
Std Dev 0

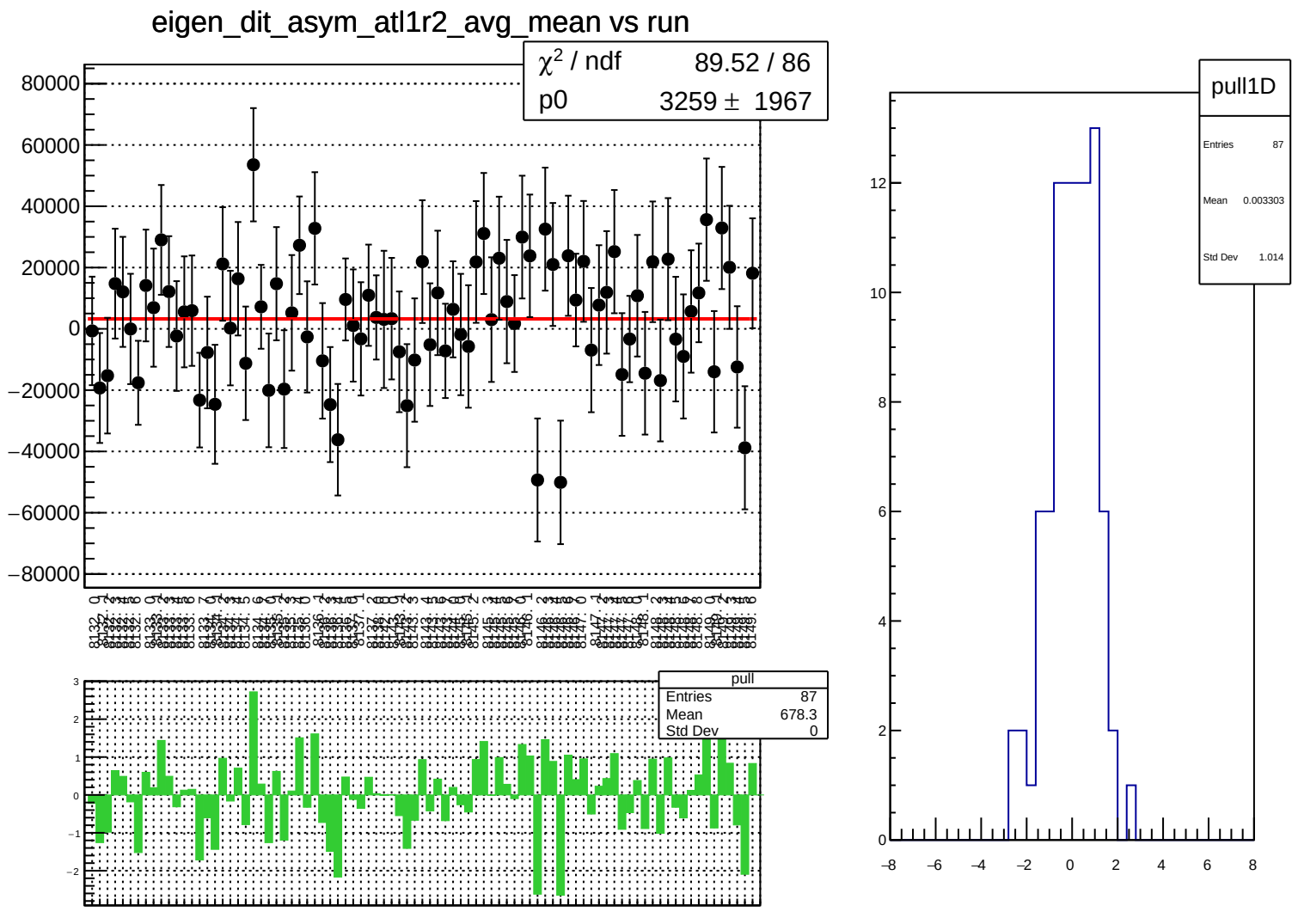

pull1D
Entries 87
Mean 0.003303
Std Dev 1.014

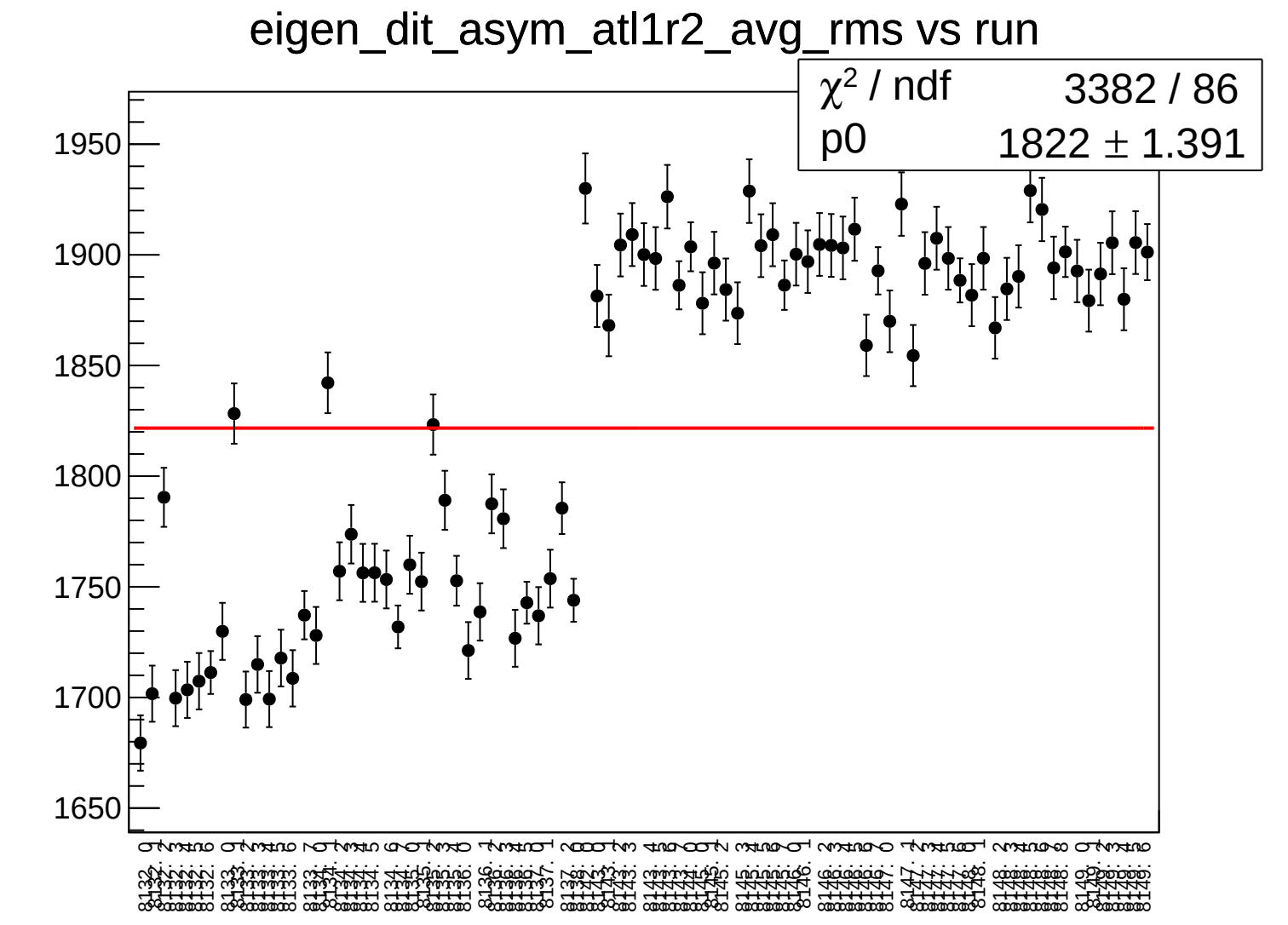

dit_asym_atl1r2_avg_rms vs run
χ² / ndf 3382 / 86
p0 1822 ± 1.391
1950
1900
1850
1800
1750
1700
1650

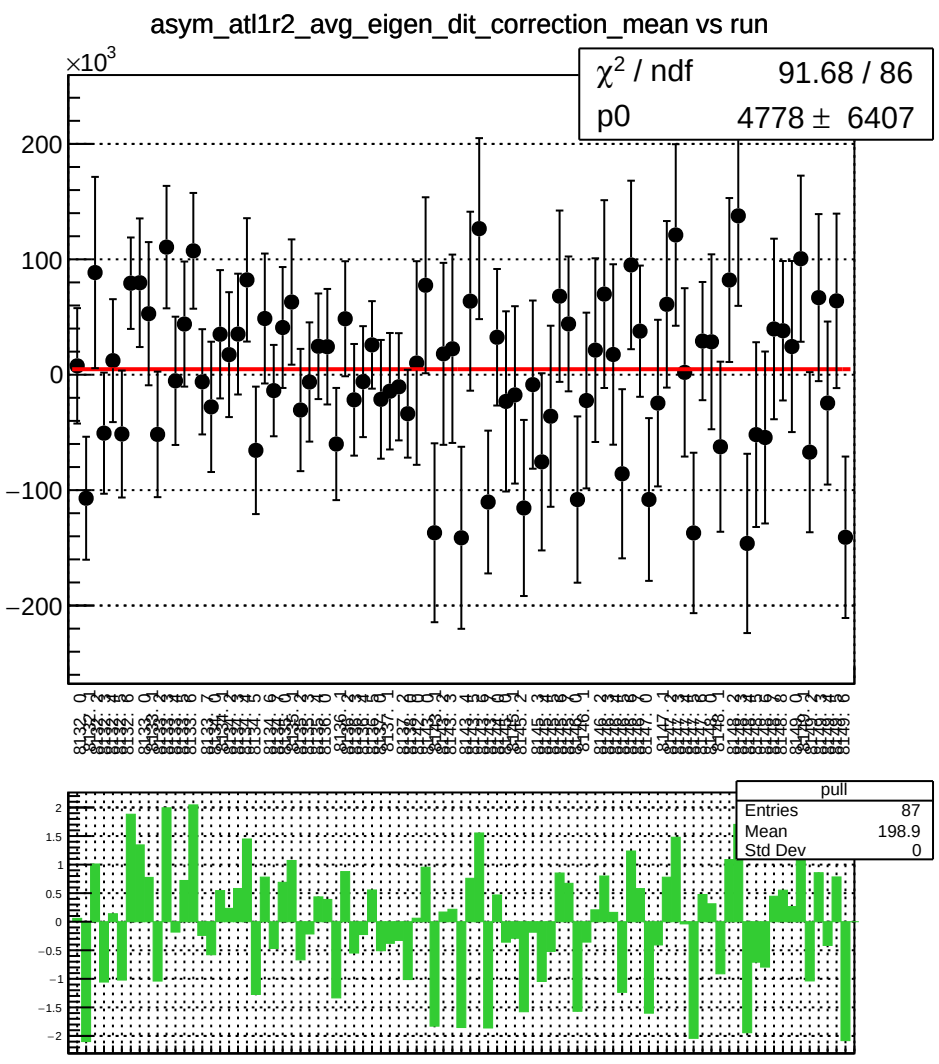

asym_atl1r2_avg_dit_correction_mean vs run
χ² / ndf 91.68 / 86
p0 4778 ± 6407
×10³
pull
Entries 87
Mean 198.9
Std Dev 0

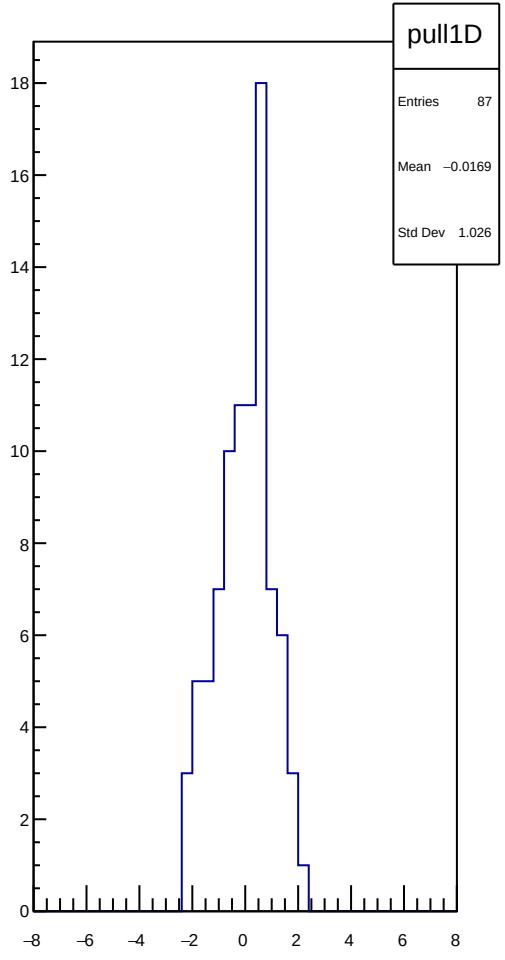

pull1D
Entries 87
Mean −0.0169
Std Dev 1.026

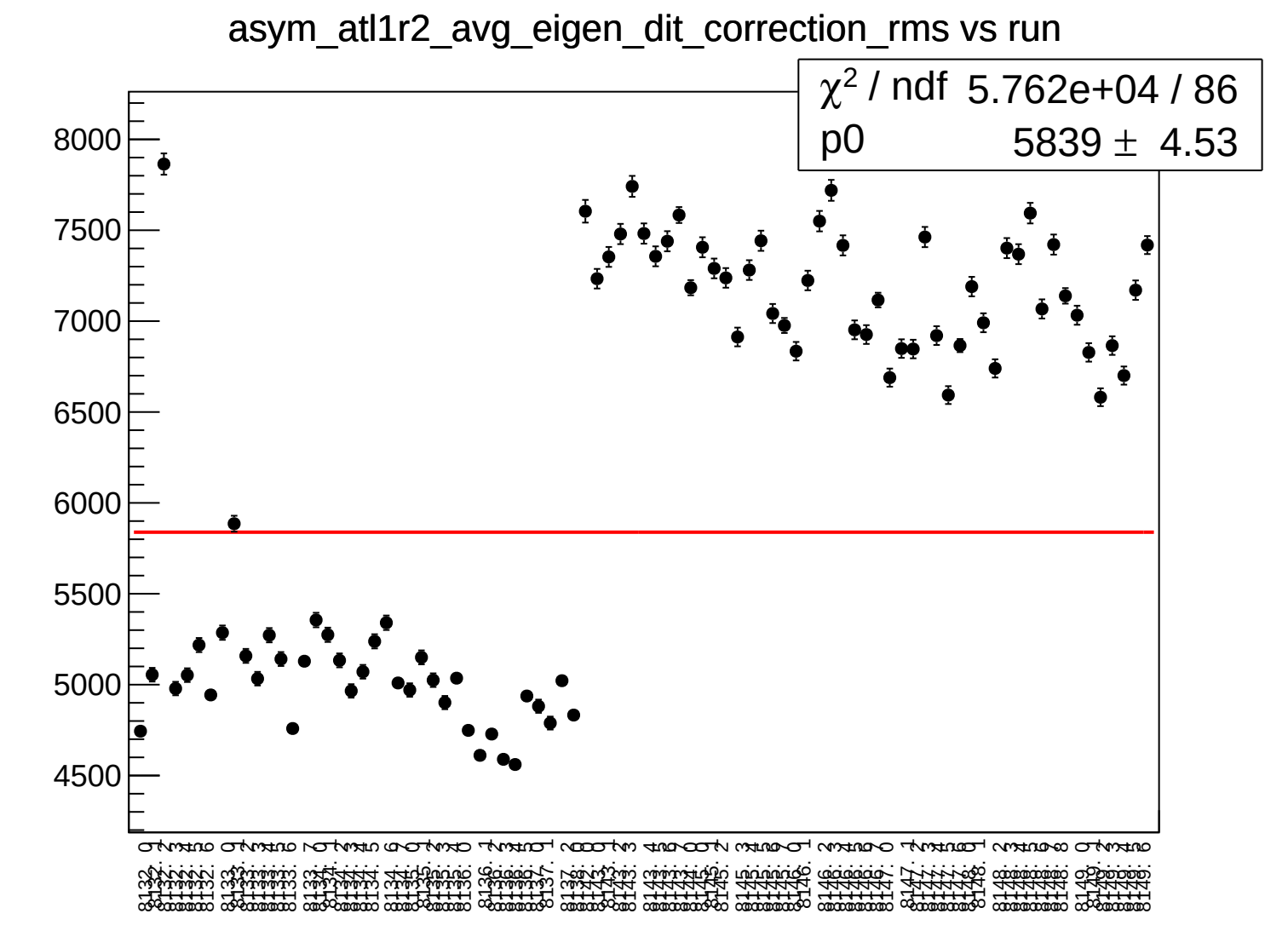

asym_atl1r2_avg_dit_correction_rms vs run
χ² / ndf 5.762e+04 / 86
p0 5839 ± 4.53
8000
7500
7000
6500
6000
5500
5000
4500

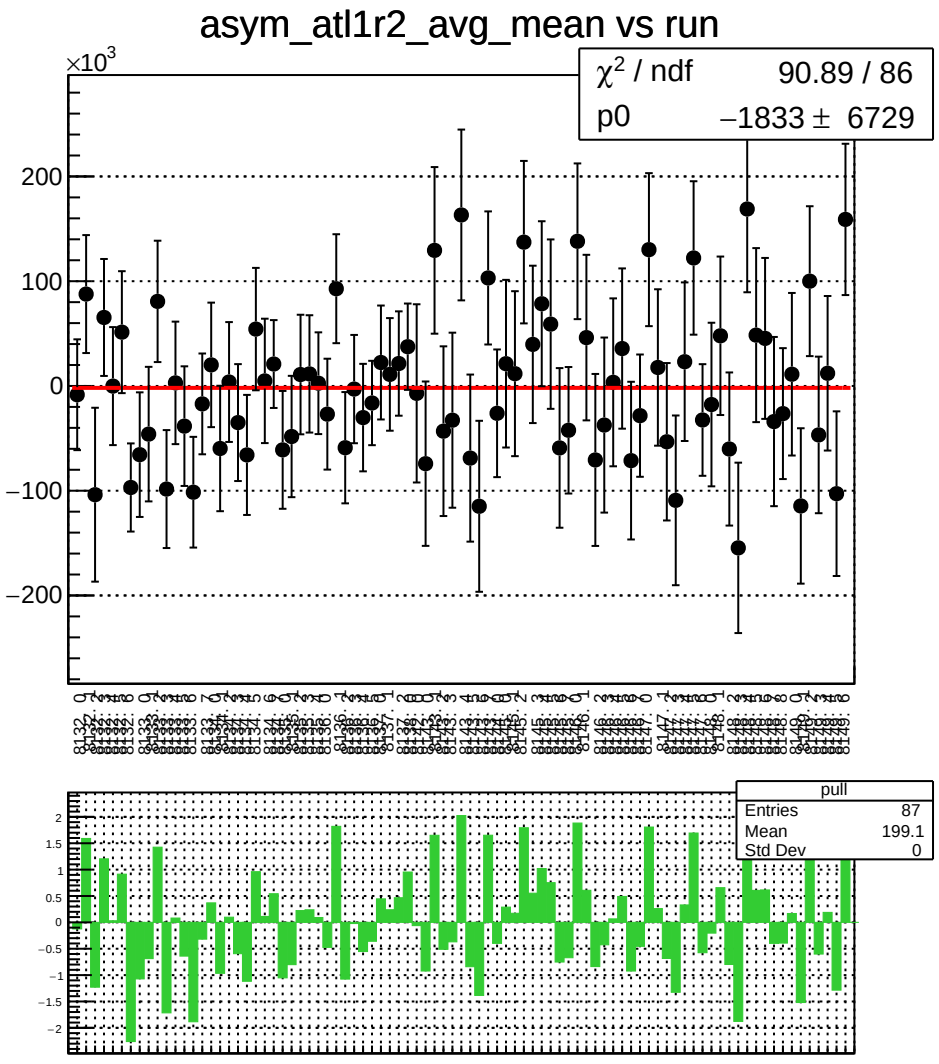

eigen_dit_asym_atl1r2_avg_mean vs run
χ² / ndf 89.52 / 86
p0 3259 ± 1967
pull
Entries 87
Mean 678.3
Std Dev 0
pull1D
Entries 87
Mean 0.003303
Std Dev 1.014

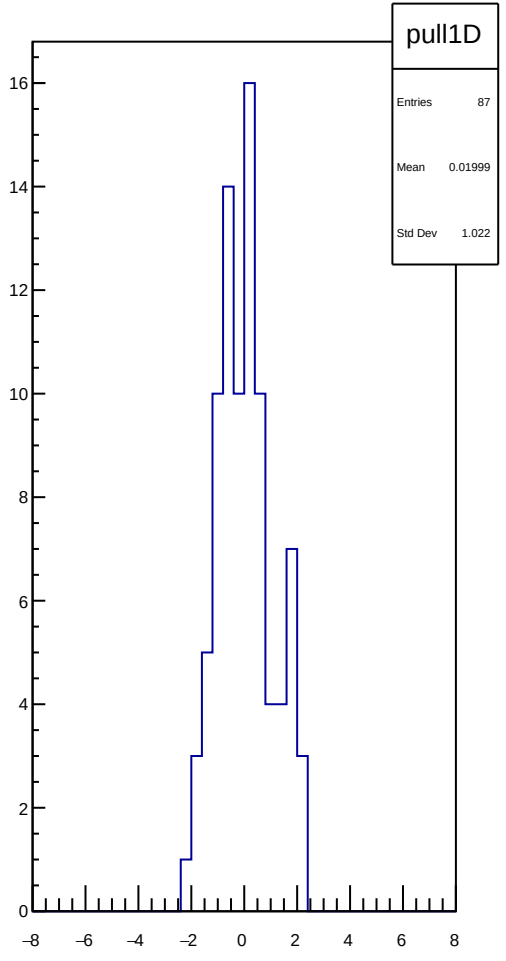

eigen_dit_asym_atl1r2_avg_rms vs run
χ² / ndf 3382 / 86
p0 1822 ± 1.391
1950
1900
1850
1800
1750
1700
1650

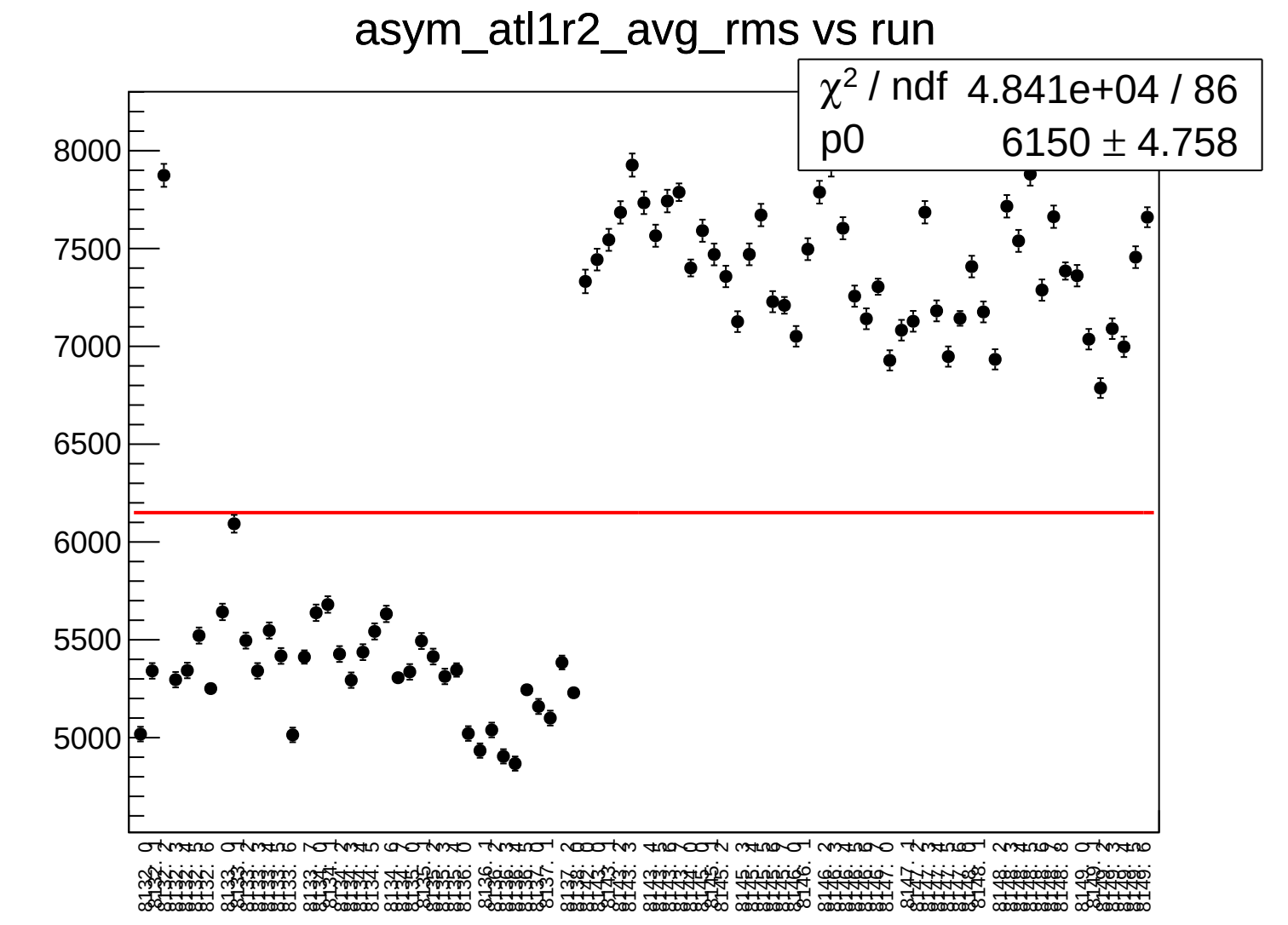

asym_atl1r2_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 91.68 / 86
p0 4778 ± 6407
200
100
0
−100
−200
pull
Entries 87
Mean 198.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

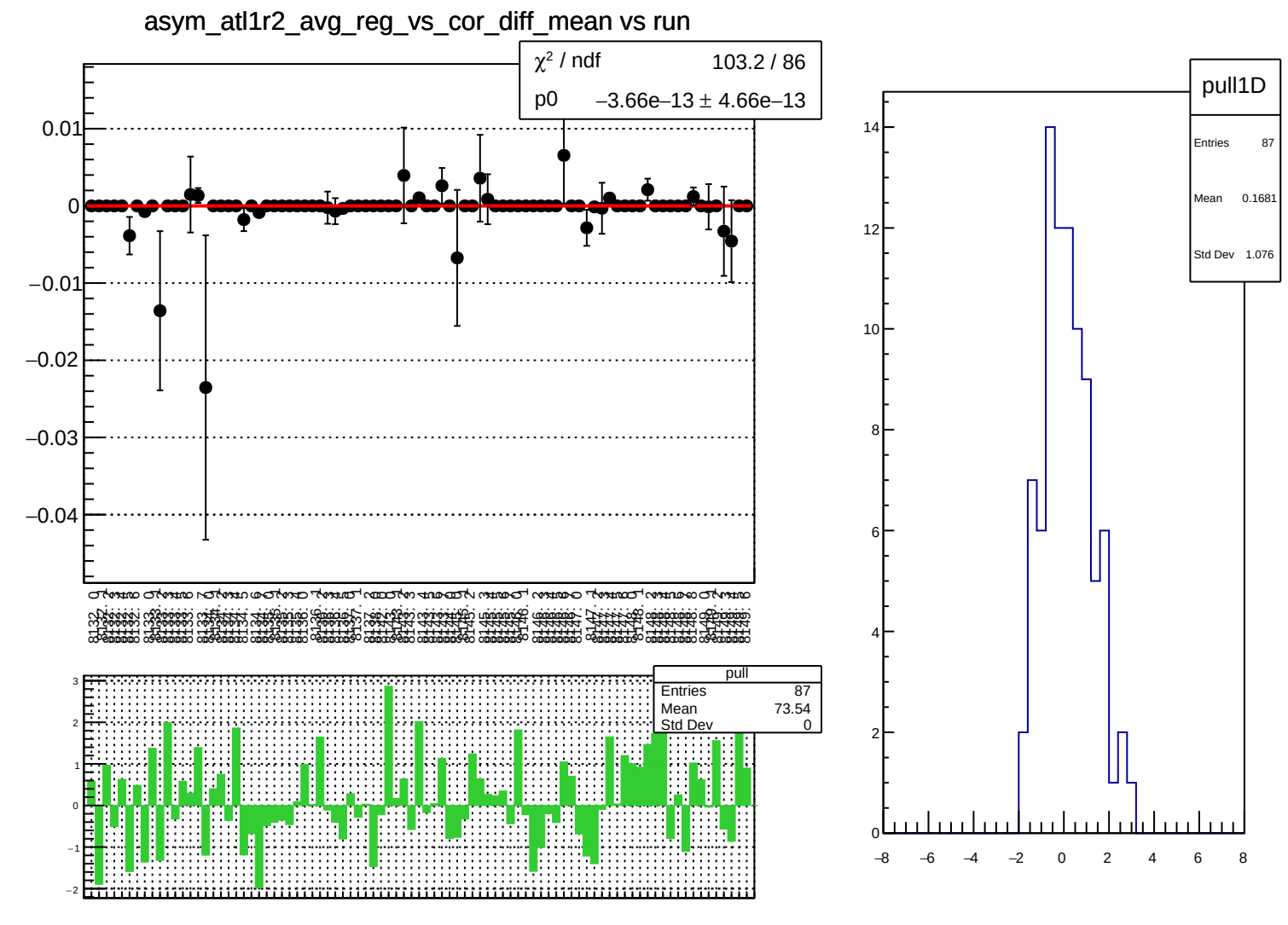

pull1D
Entries 87
Mean −0.0169
Std Dev 1.026
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

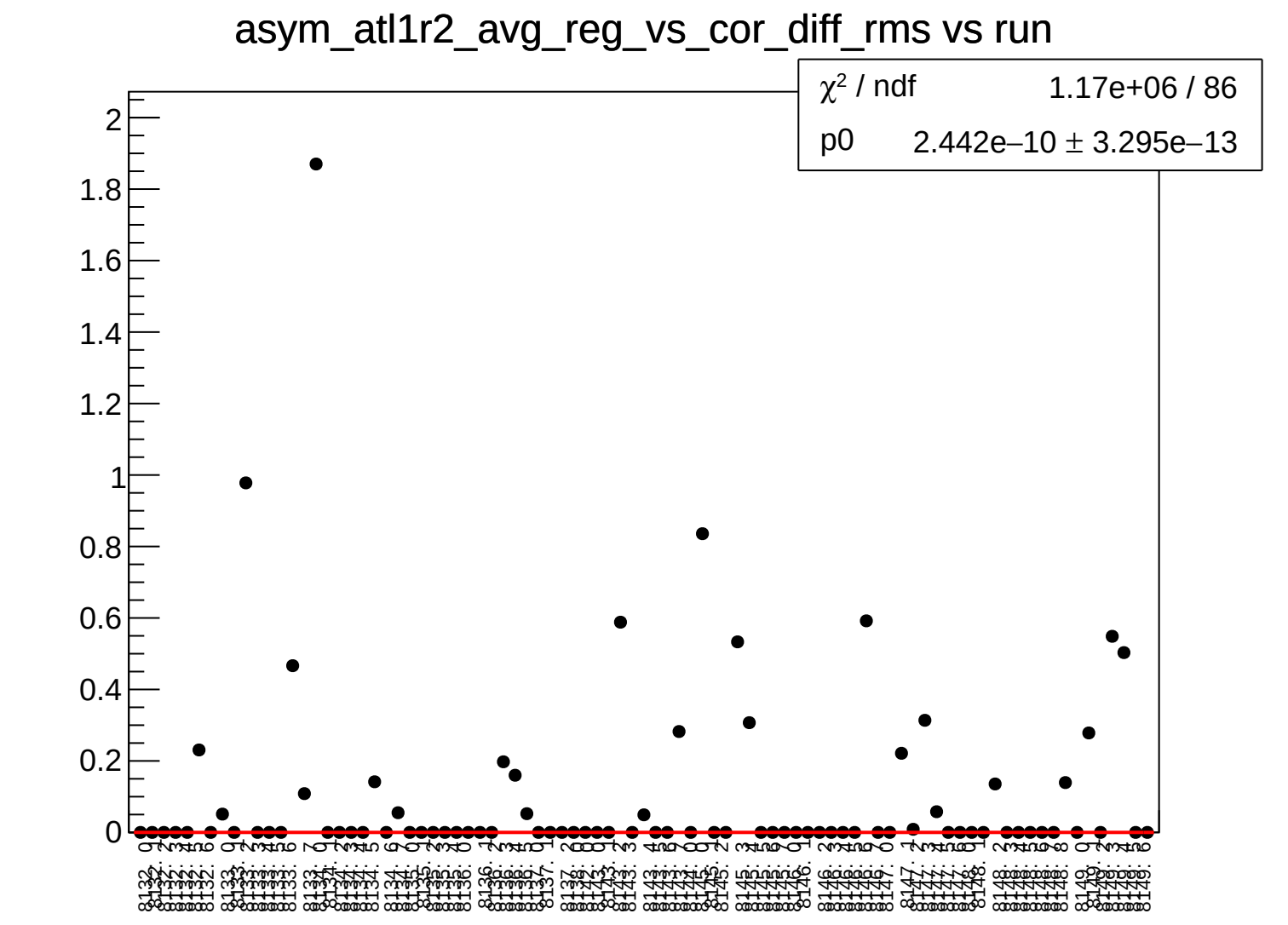

asym_atl1r2_avg_eigen_dit_correction_rms vs run
χ² / ndf 5.762e+04 / 86
p0 5839 ± 4.53
8000
7500
7000
6500
6000
5500
5000
4500

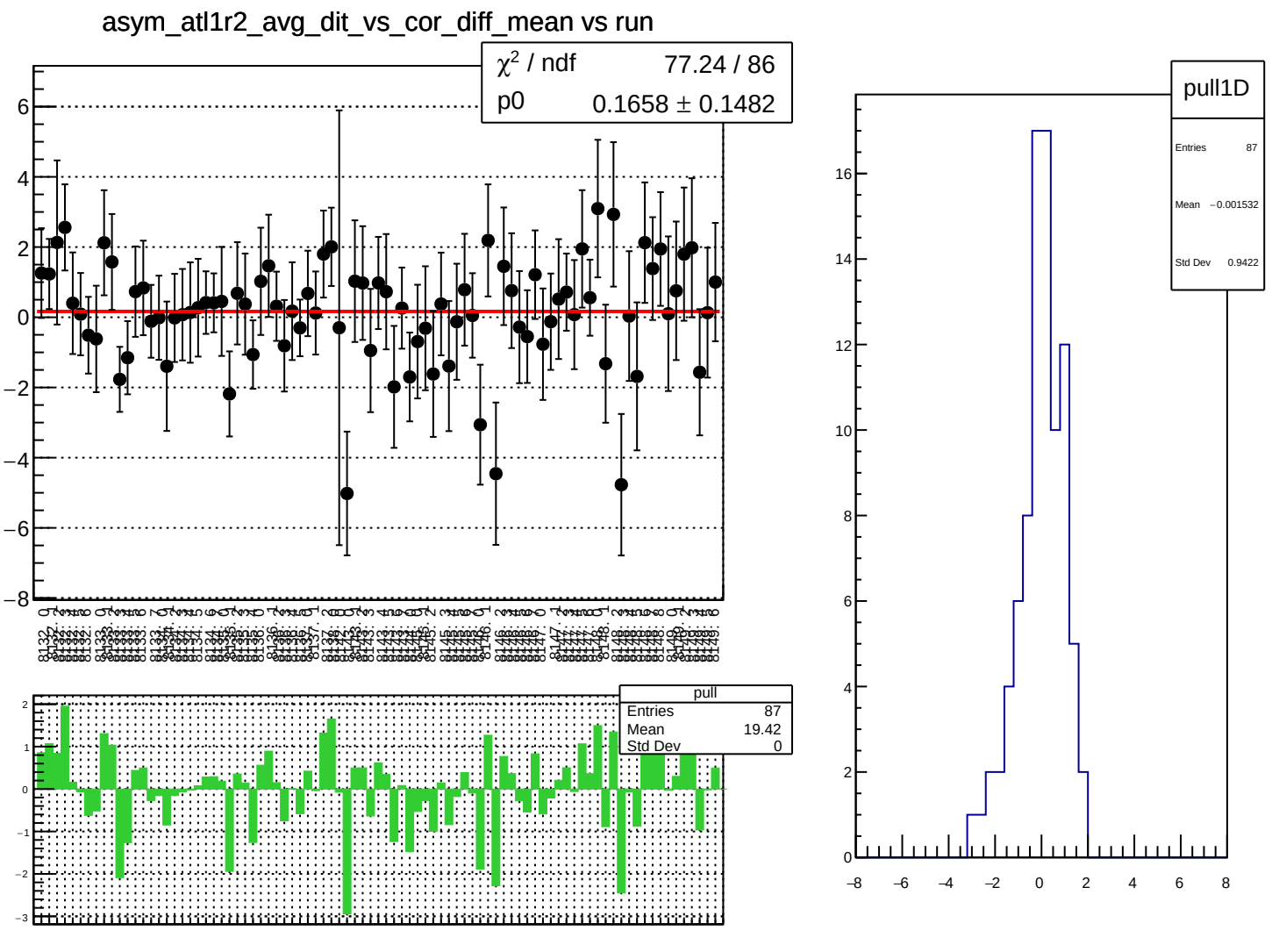

asym_atl1r2_avg_mean vs run
χ² / ndf 90.89 / 86
p0 −1833 ± 6729
×10³
200
100
0
−100
−200
pull
Entries 87
Mean 199.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

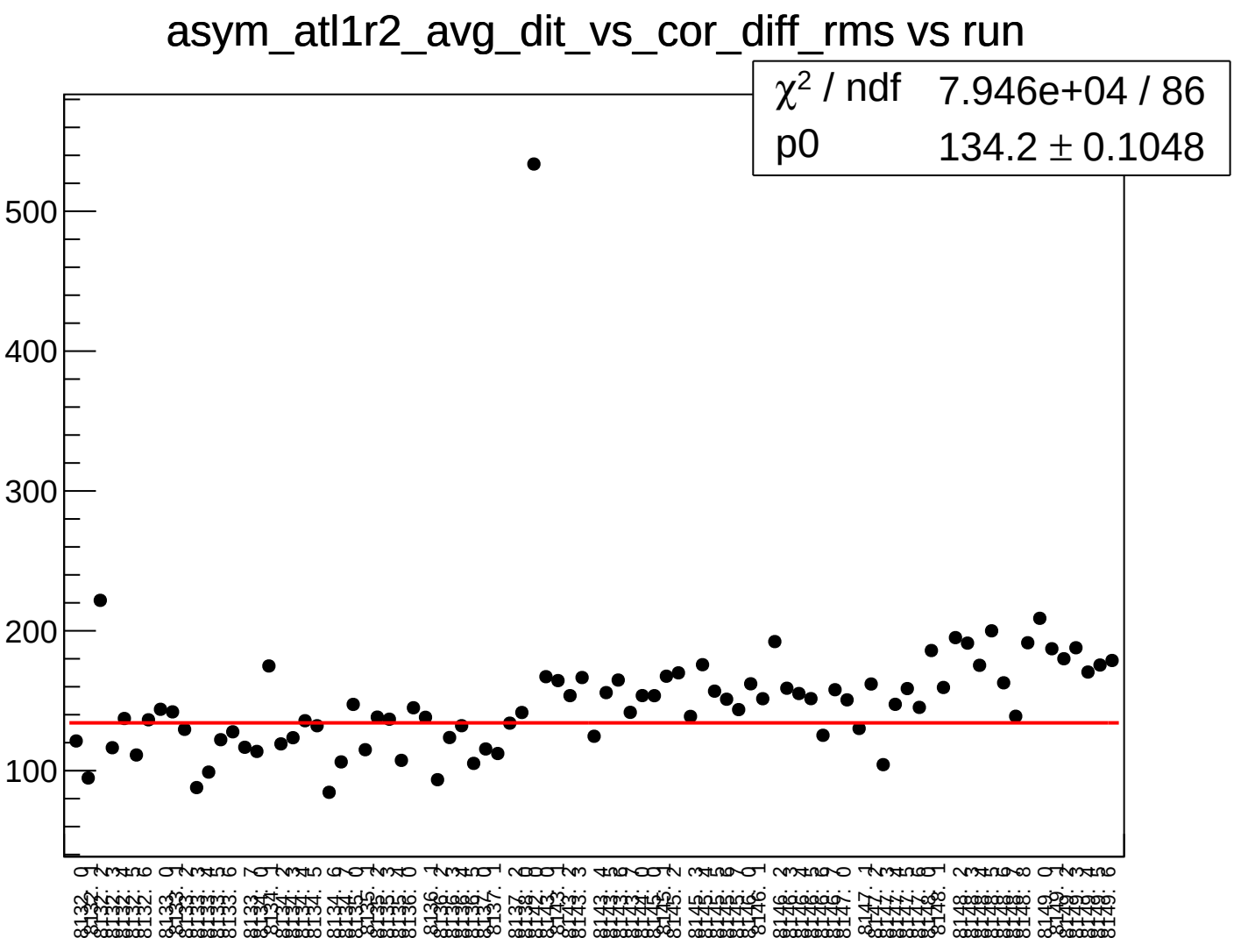

pull1D
Entries 87
Mean 0.01999
Std Dev 1.022
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

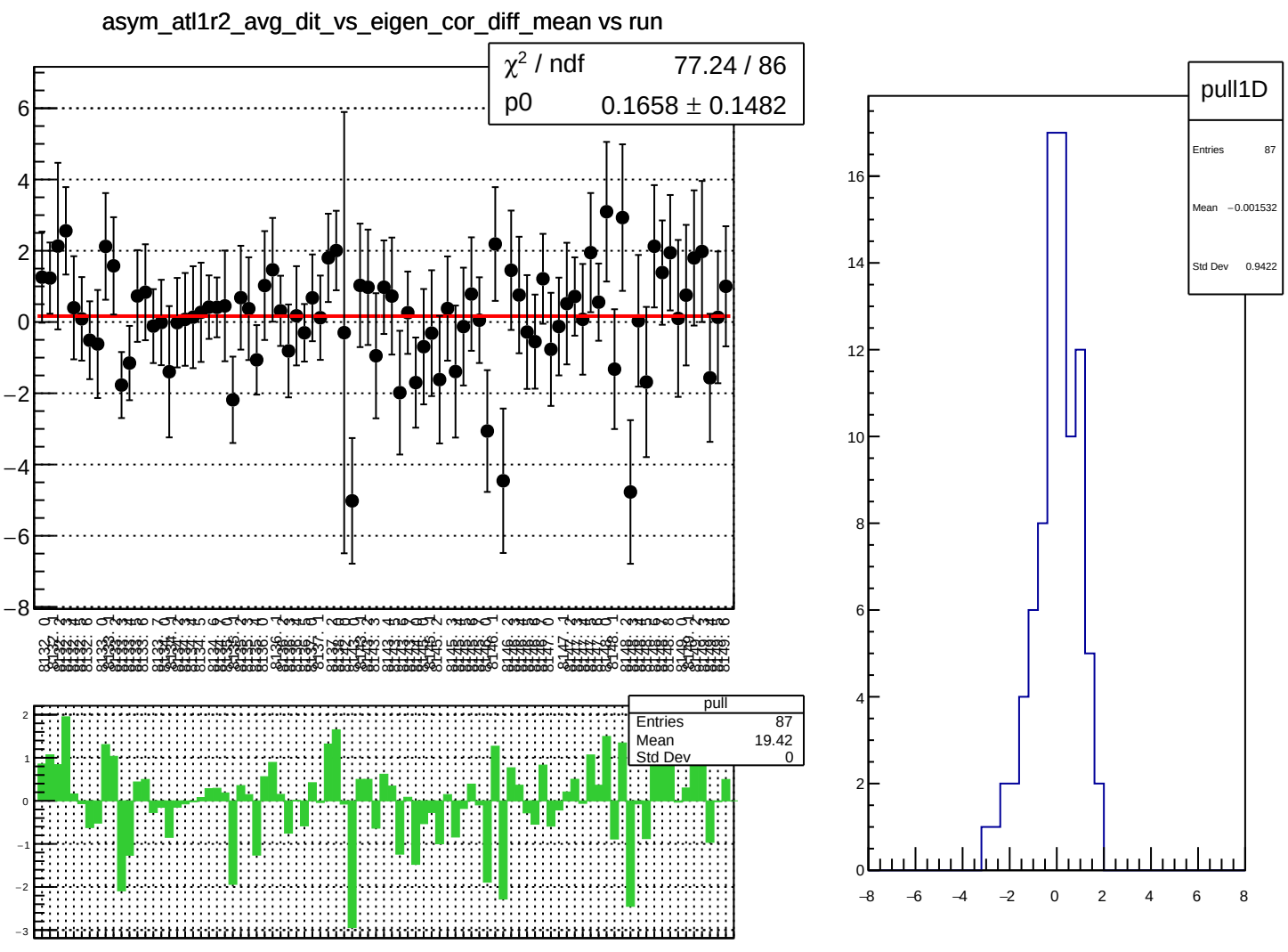

asym_atl1r2_avg_rms vs run
χ² / ndf 4.841e+04 / 86
p0 6150 ± 4.758
8000
7500
7000
6500
6000
5500
5000

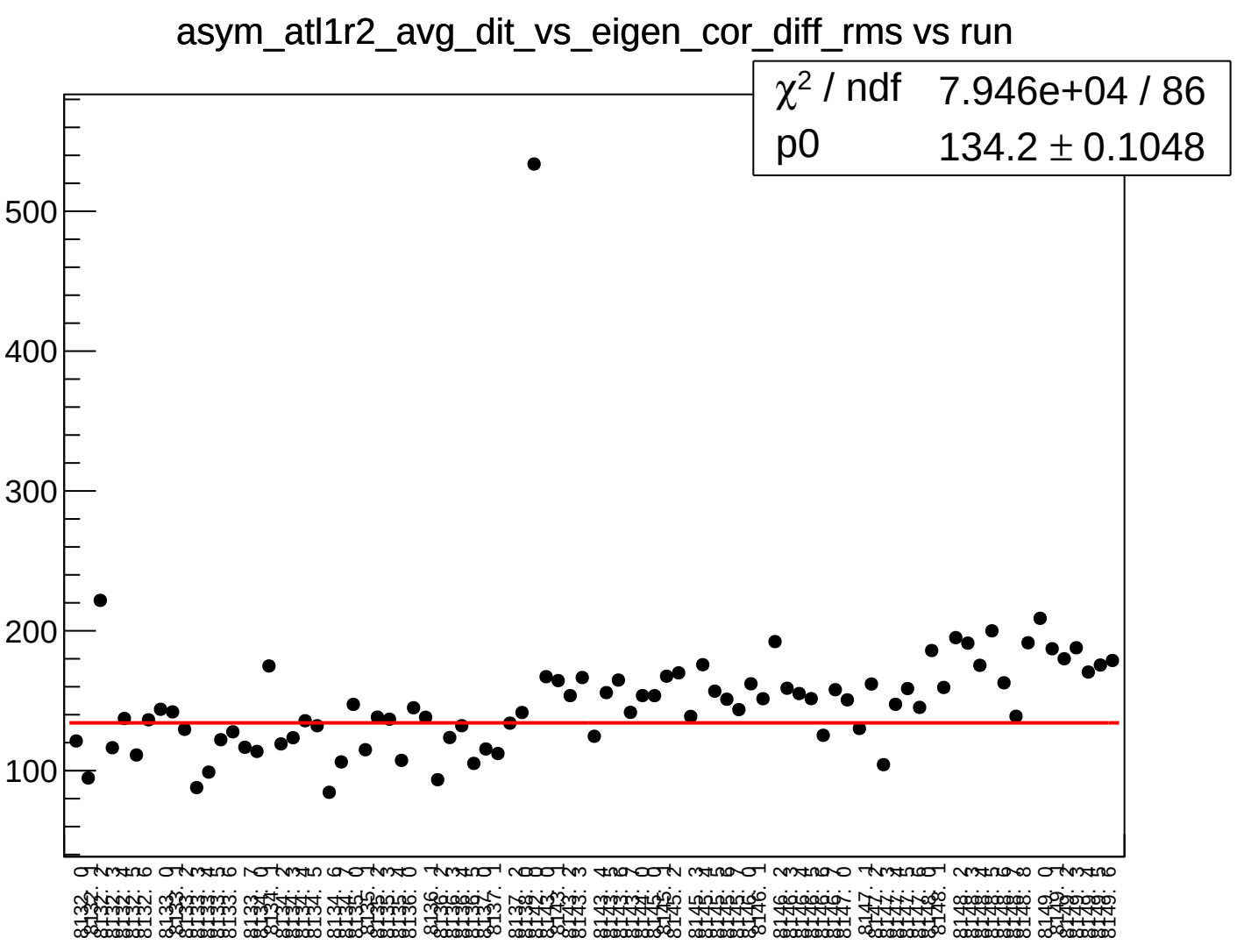

asym_atl1r2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 103.2 / 86
p0 −3.66e−13 ± 4.66e−13
pull
Entries 87
Mean 73.54
Std Dev 0
pull1D
Entries 87
Mean 0.1681
Std Dev 1.076

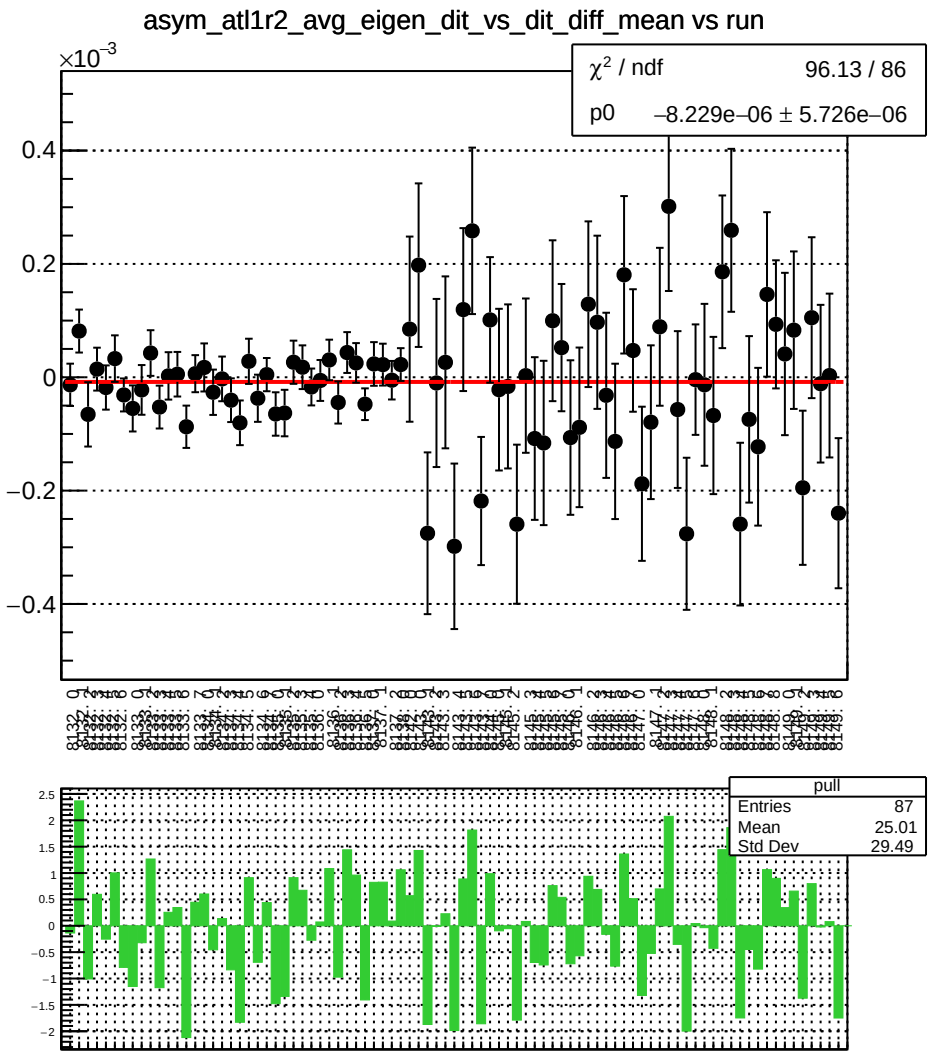

asym_atl1r2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.17e+06 / 86
p0 2.442e−10 ± 3.295e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

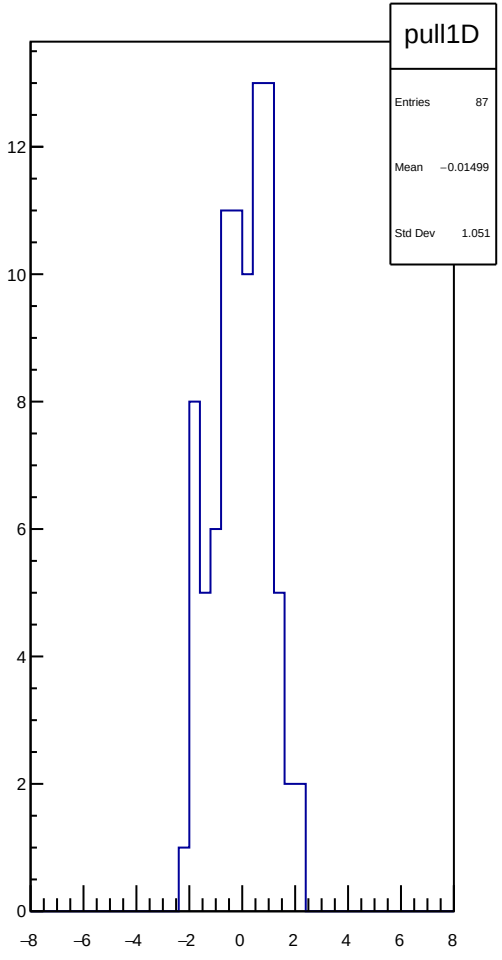

asym_atl1r2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 77.24 / 86
p0 0.1658 ± 0.1482
pull
Entries 87
Mean 19.42
Std Dev 0
pull1D
Entries 87
Mean −0.001532
Std Dev 0.9422

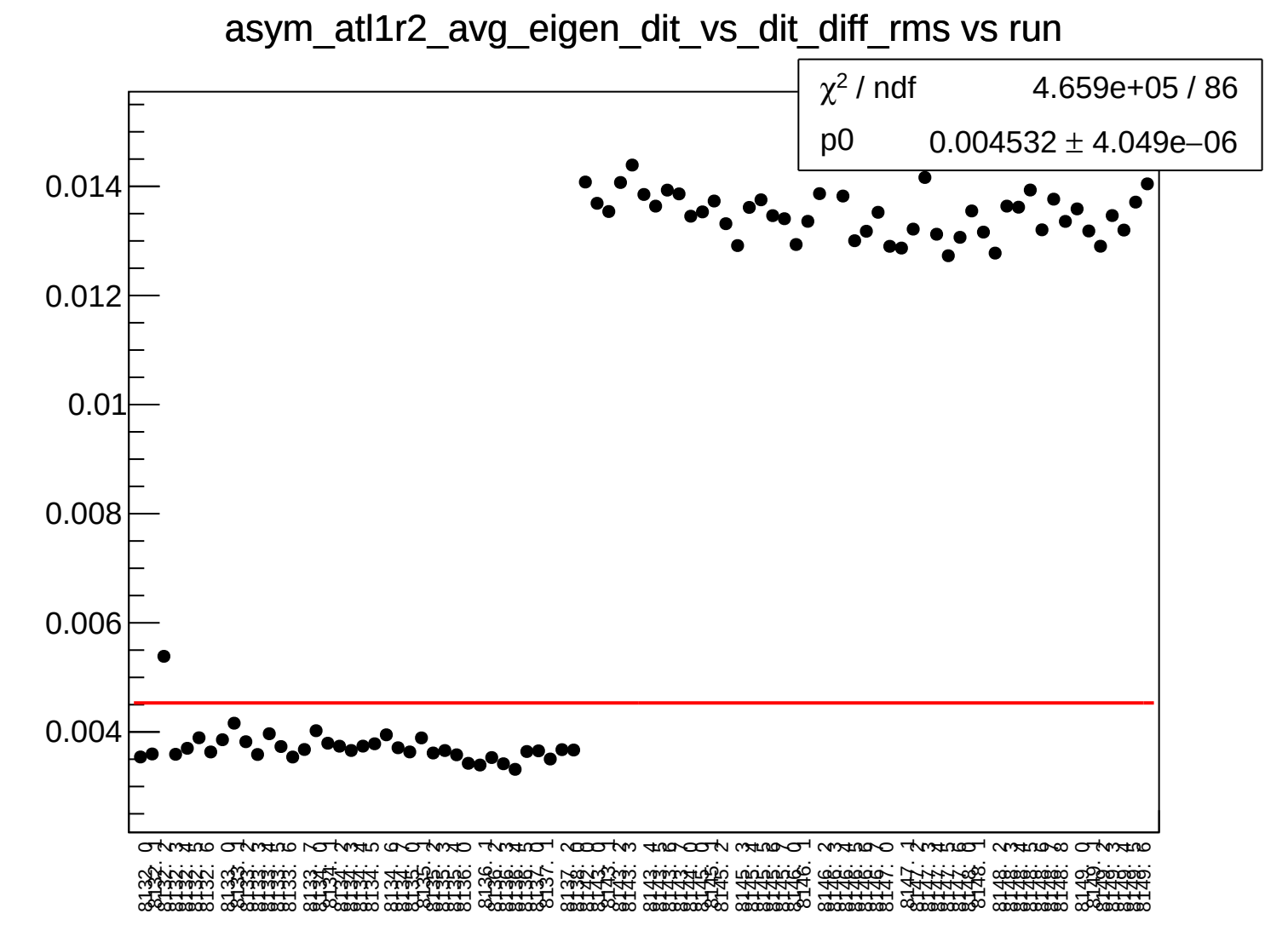

asym_atl1r2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.946e+04 / 86
p0 134.2 ± 0.1048
500
400
300
200
100

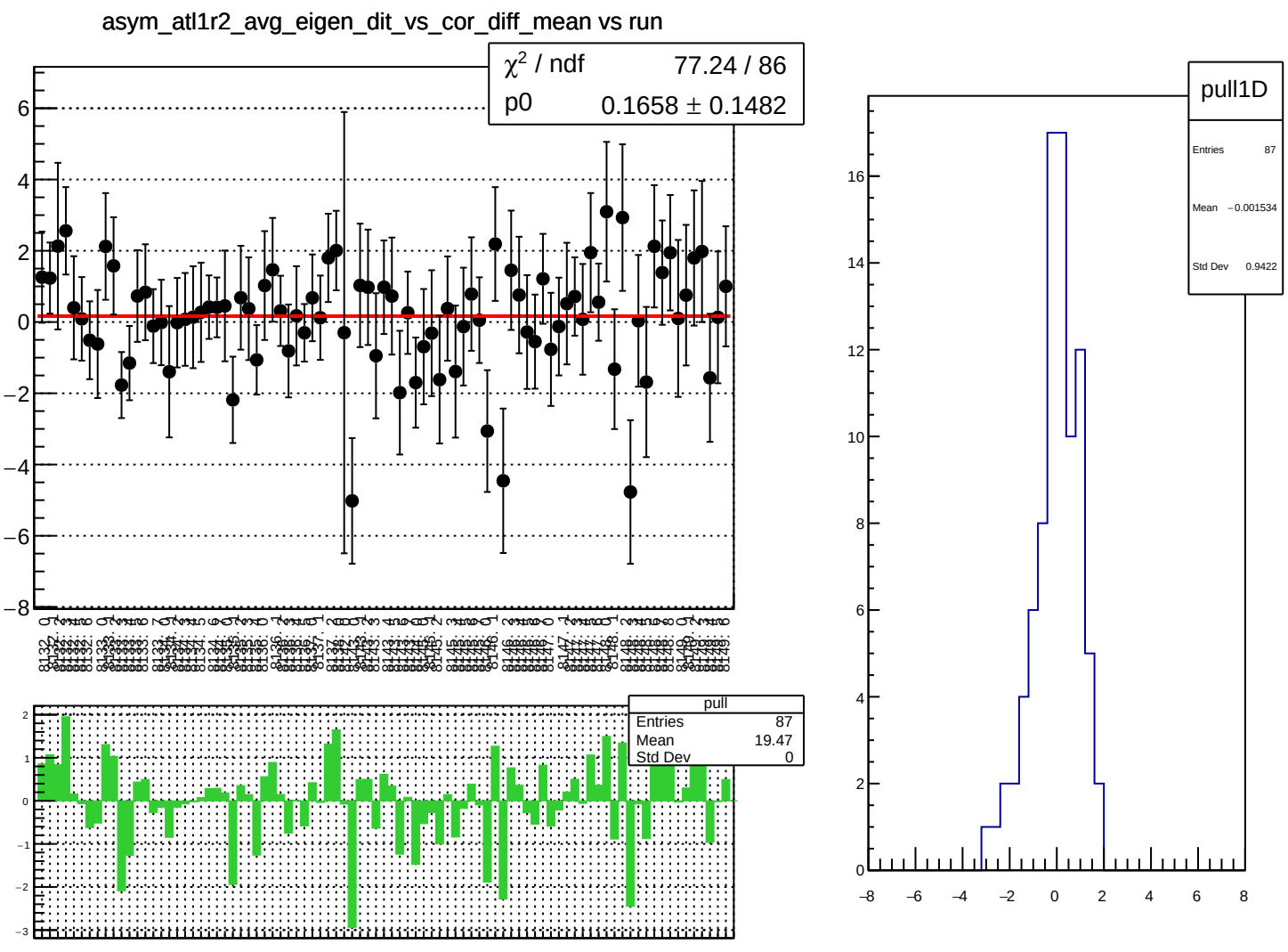

asym_atl1r2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.24 / 86
p0 0.1658 ± 0.1482
pull
Entries 87
Mean 19.42
Std Dev 0
pull1D
Entries 87
Mean −0.001532
Std Dev 0.9422

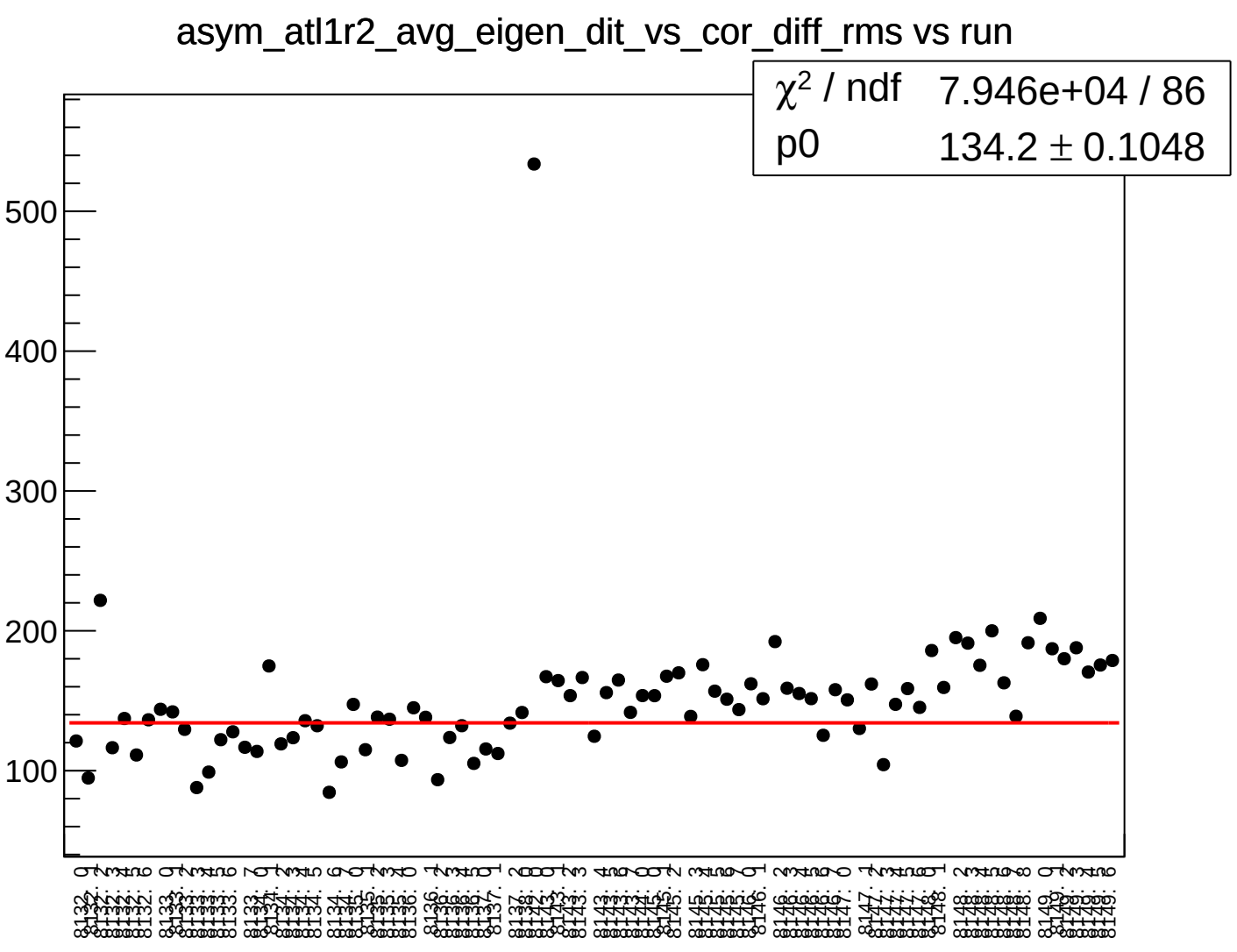

asym_atl1r2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.946e+04 / 86
p0 134.2 ± 0.1048
500
400
300
200
100

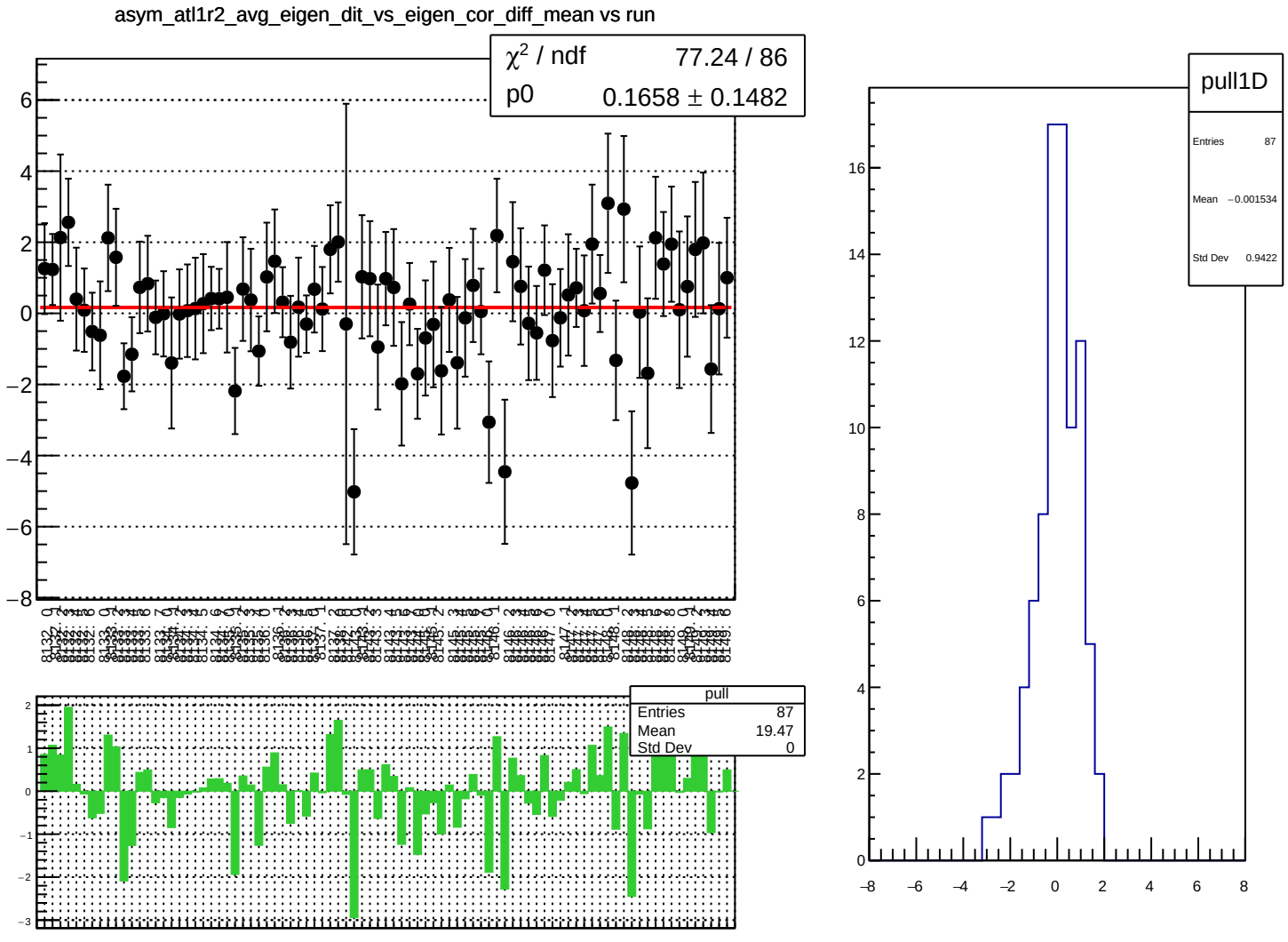

asym_atl1r2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.13 / 86
p0 −8.229e−06 ± 5.726e−06
pull
Entries 87
Mean 25.01
Std Dev 29.49

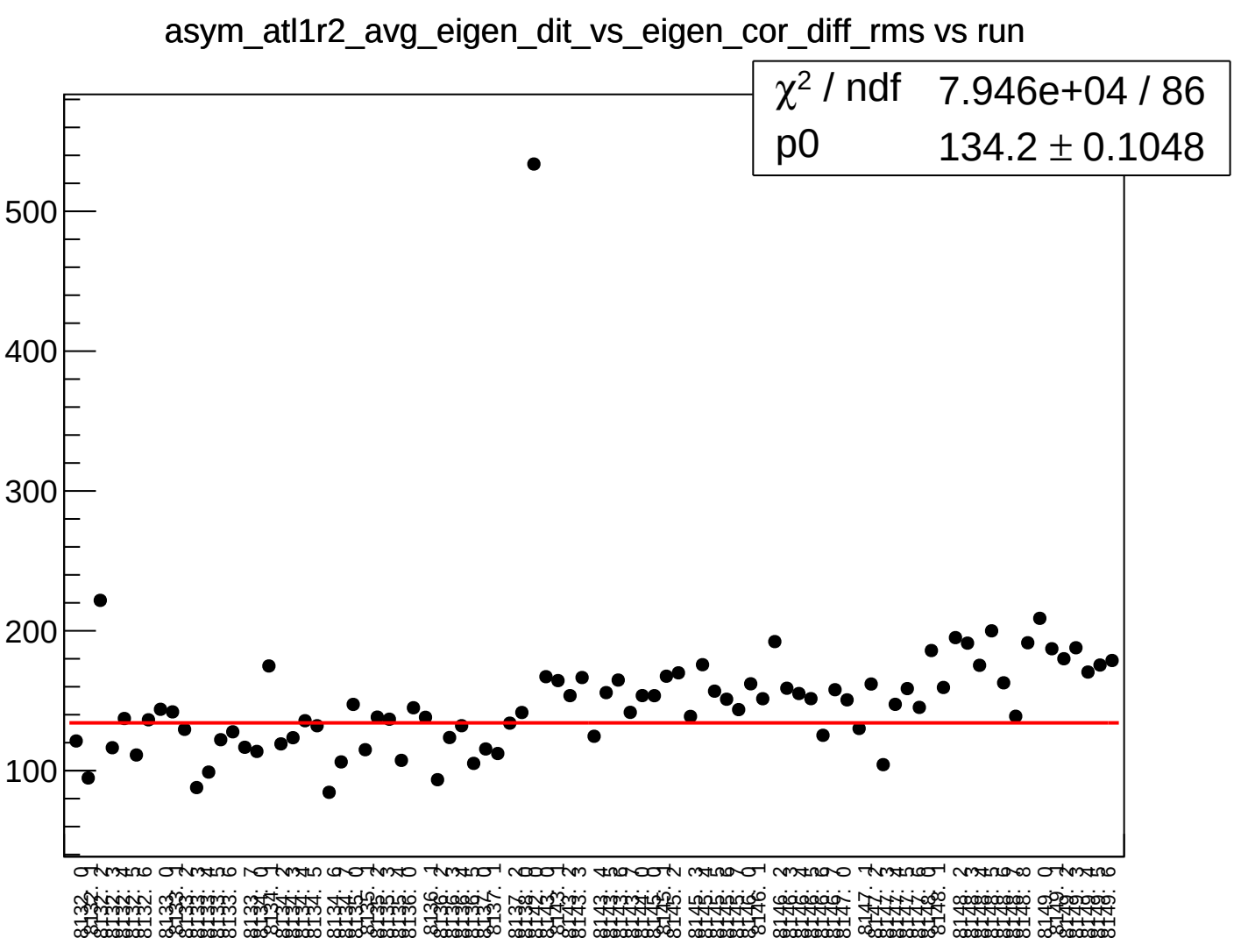

pull1D
Entries 87
Mean −0.01499
Std Dev 1.051

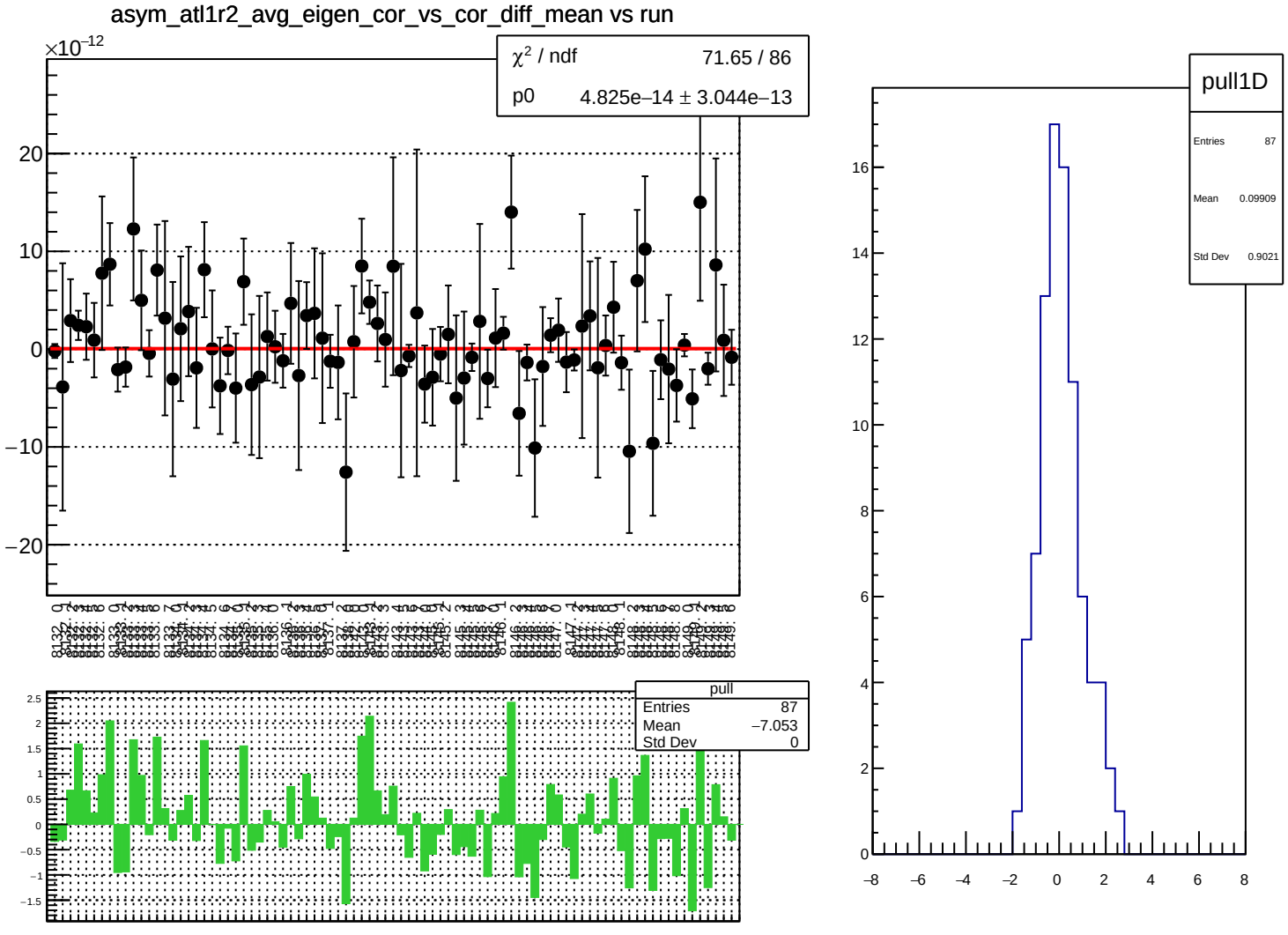

asym_atl1r2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.659e+05 / 86
p0 0.004532 ± 4.049e−06
0.014
0.012
0.01
0.008
0.006
0.004

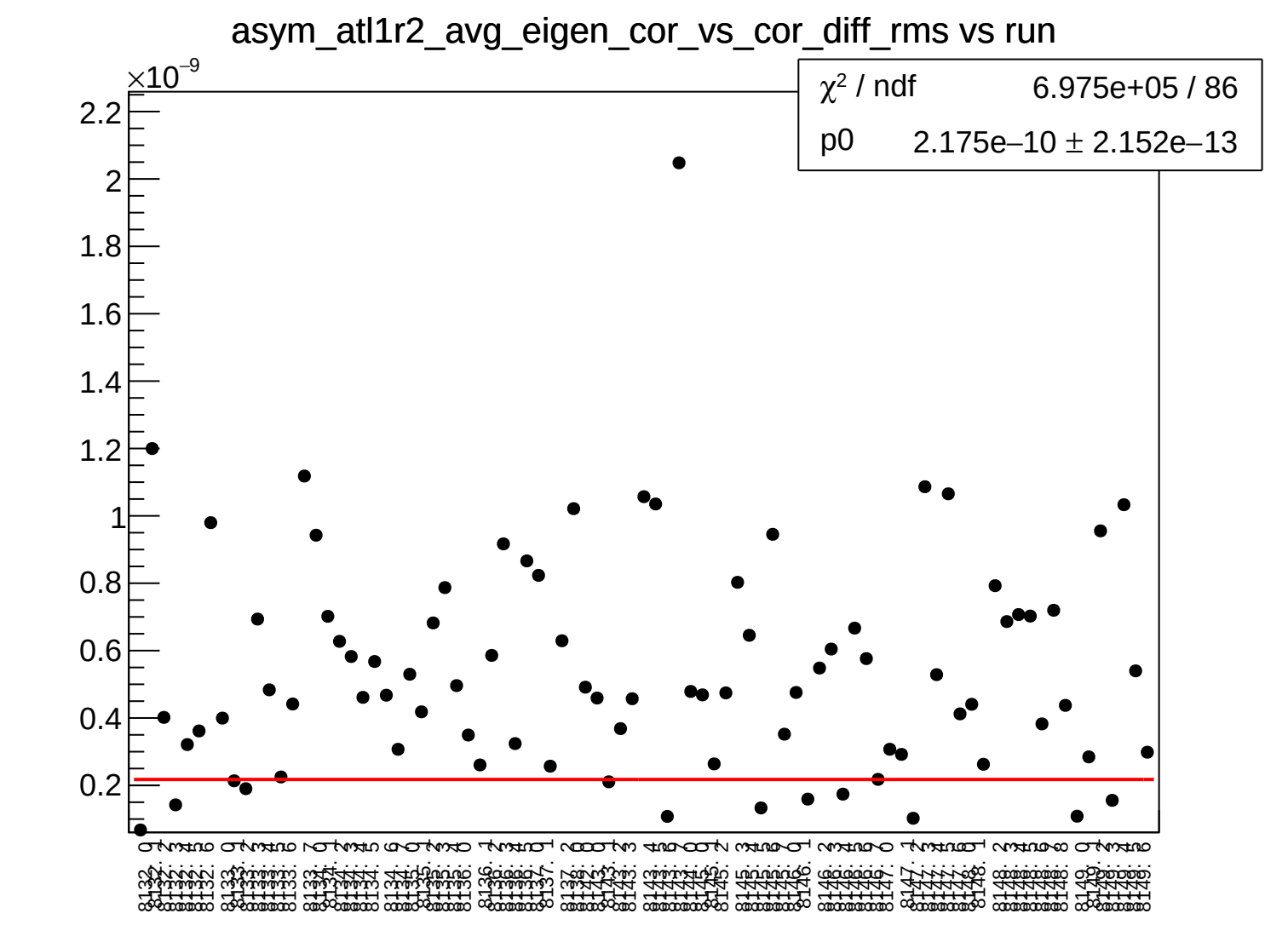

asym_atl1r2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.24 / 86
p0 0.1658 ± 0.1482
pull
Entries 87
Mean 19.47
Std Dev 0
pull1D
Entries 87
Mean −0.001534
Std Dev 0.9422

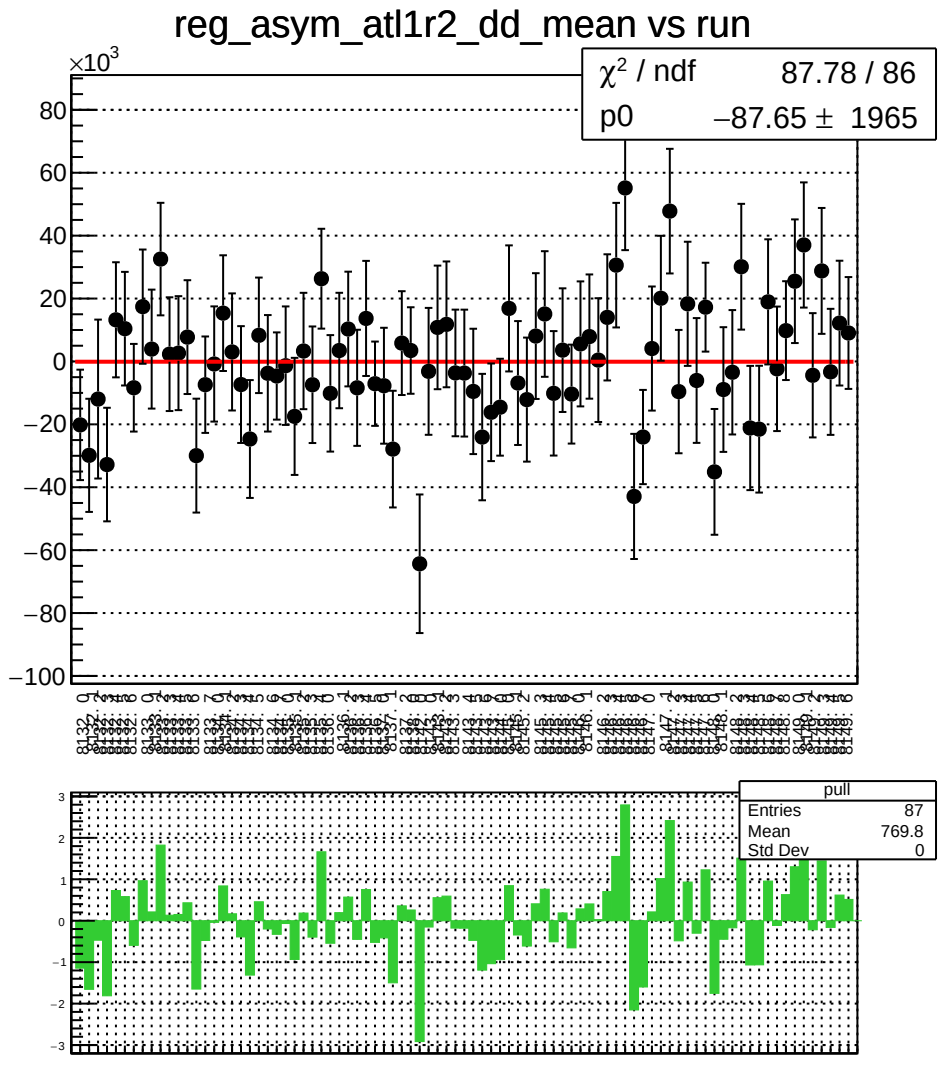

asym_atl1r2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.946e+04 / 86
p0 134.2 ± 0.1048
500
400
300
200
100

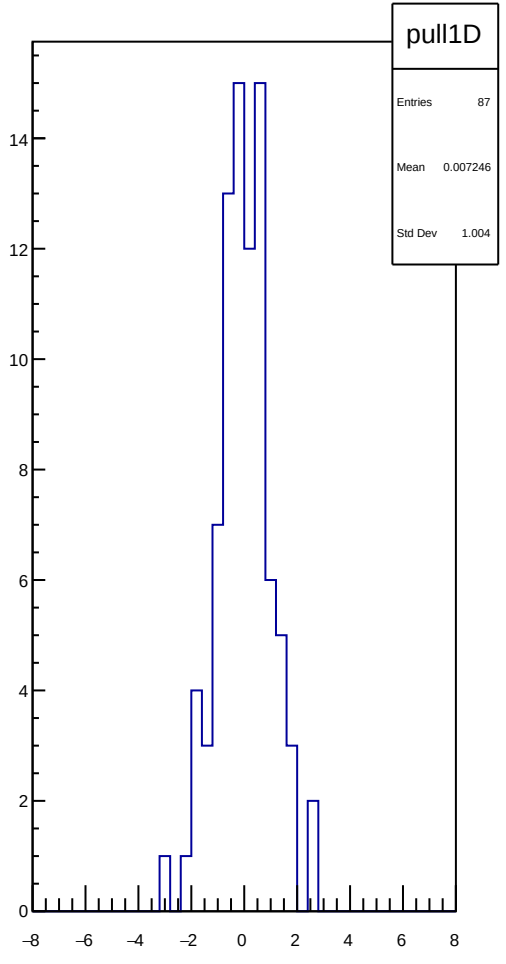

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.24 / 86
p0 0.1658 ± 0.1482
pull
Entries 87
Mean 19.47
Std Dev 0
pull1D
Entries 87
Mean −0.001534
Std Dev 0.9422

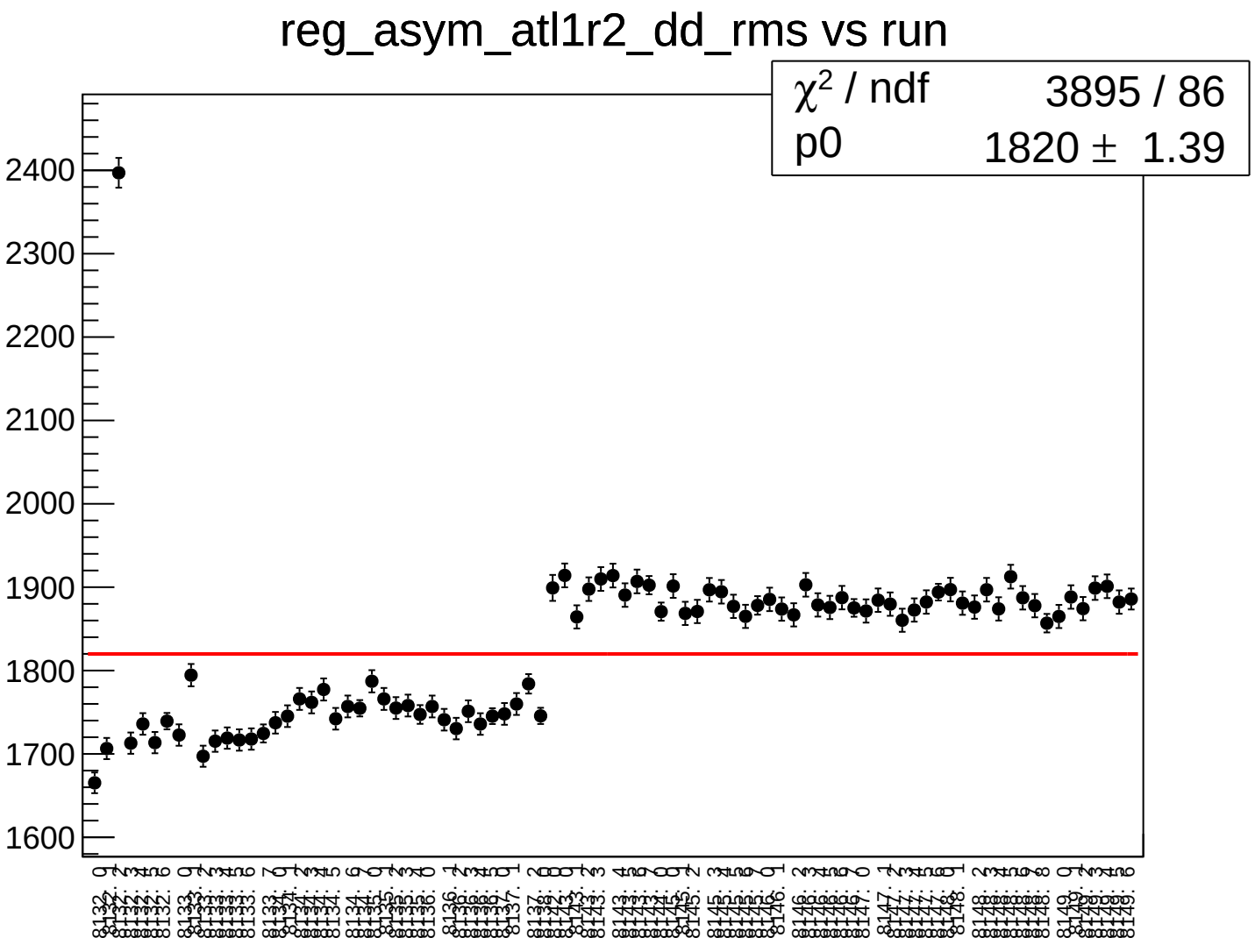

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.946e+04 / 86
p0 134.2 ± 0.1048
500
400
300
200
100

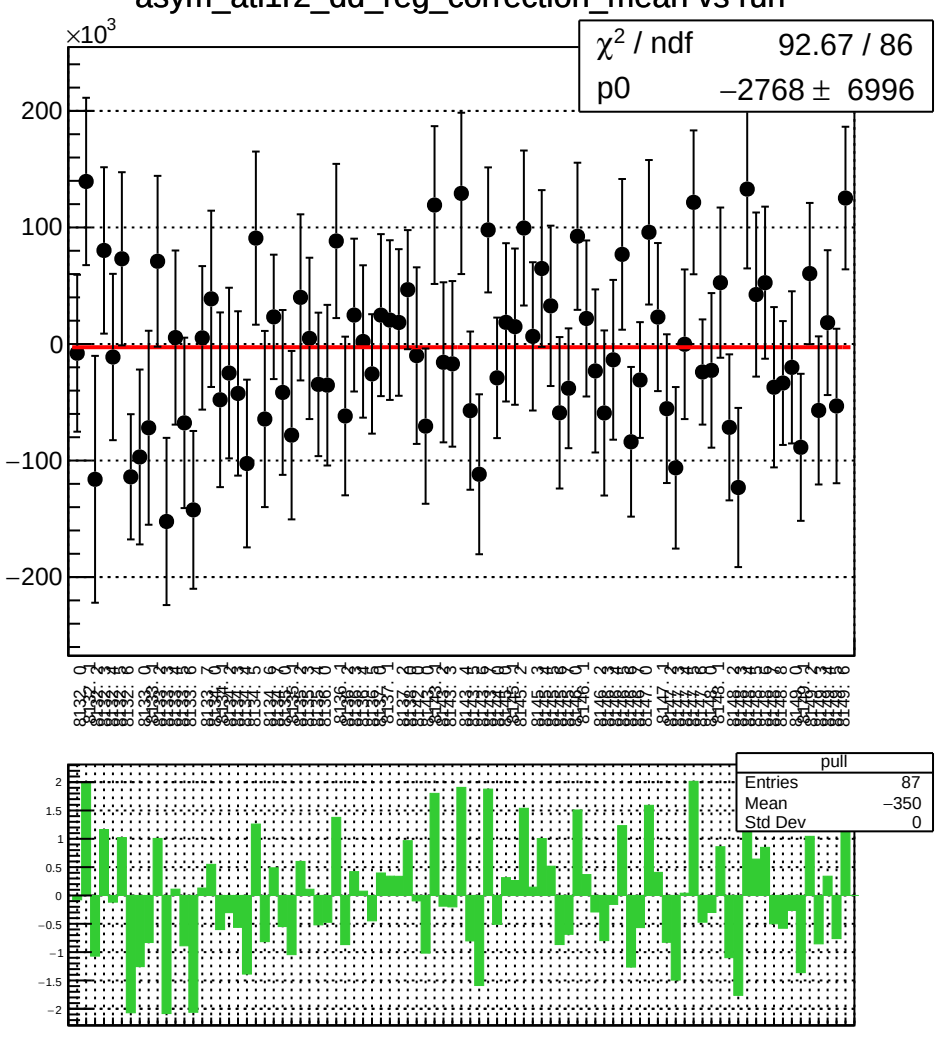

asym_atl1r2_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 71.65 / 86
p0 4.825e−14 ± 3.044e−13
20
10
0
−10
−20
pull
Entries 87
Mean −7.053
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 87
Mean 0.09909
Std Dev 0.9021
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

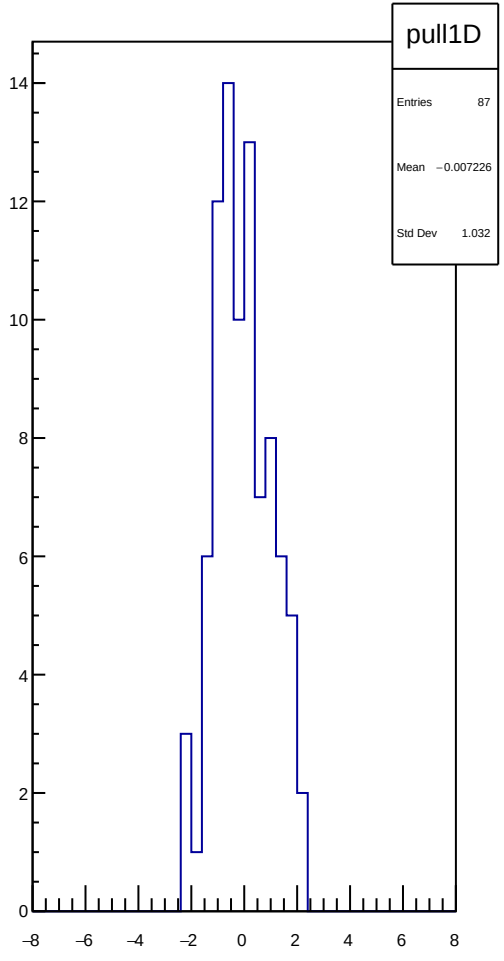

asym_atl1r2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.975e+05 / 86
p0 2.175e−10 ± 2.152e−13
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

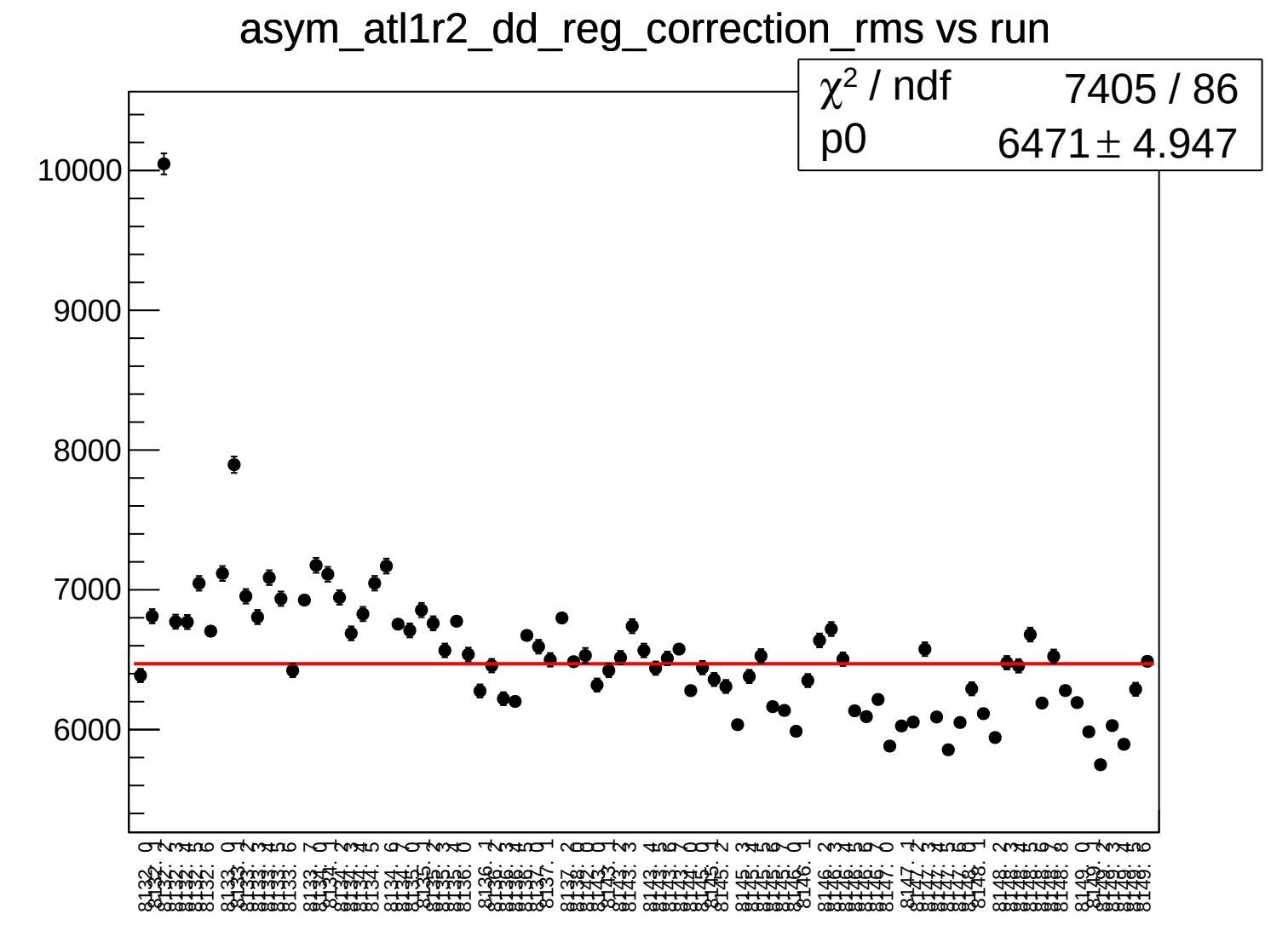

reg_asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 87.78 / 86
p0 −87.65 ± 1965
pull
Entries 87
Mean 769.8
Std Dev 0

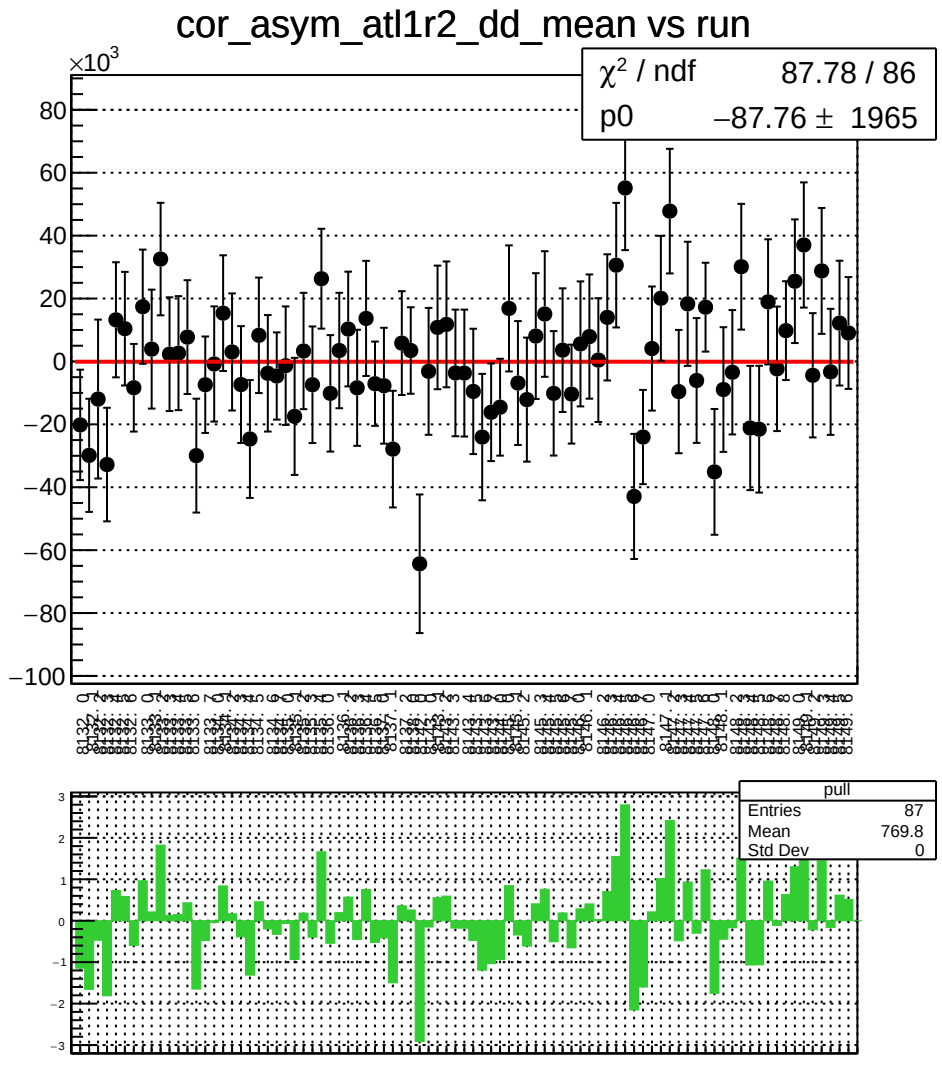

pull1D
Entries 87
Mean 0.007246
Std Dev 1.004

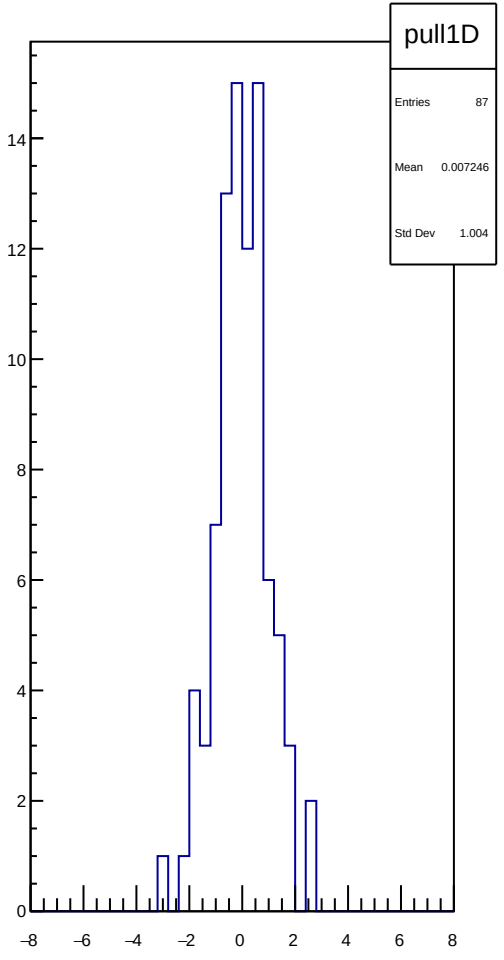

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 3895 / 86
p0 1820 ± 1.39
2400
2300
2200
2100
2000
1900
1800
1700
1600

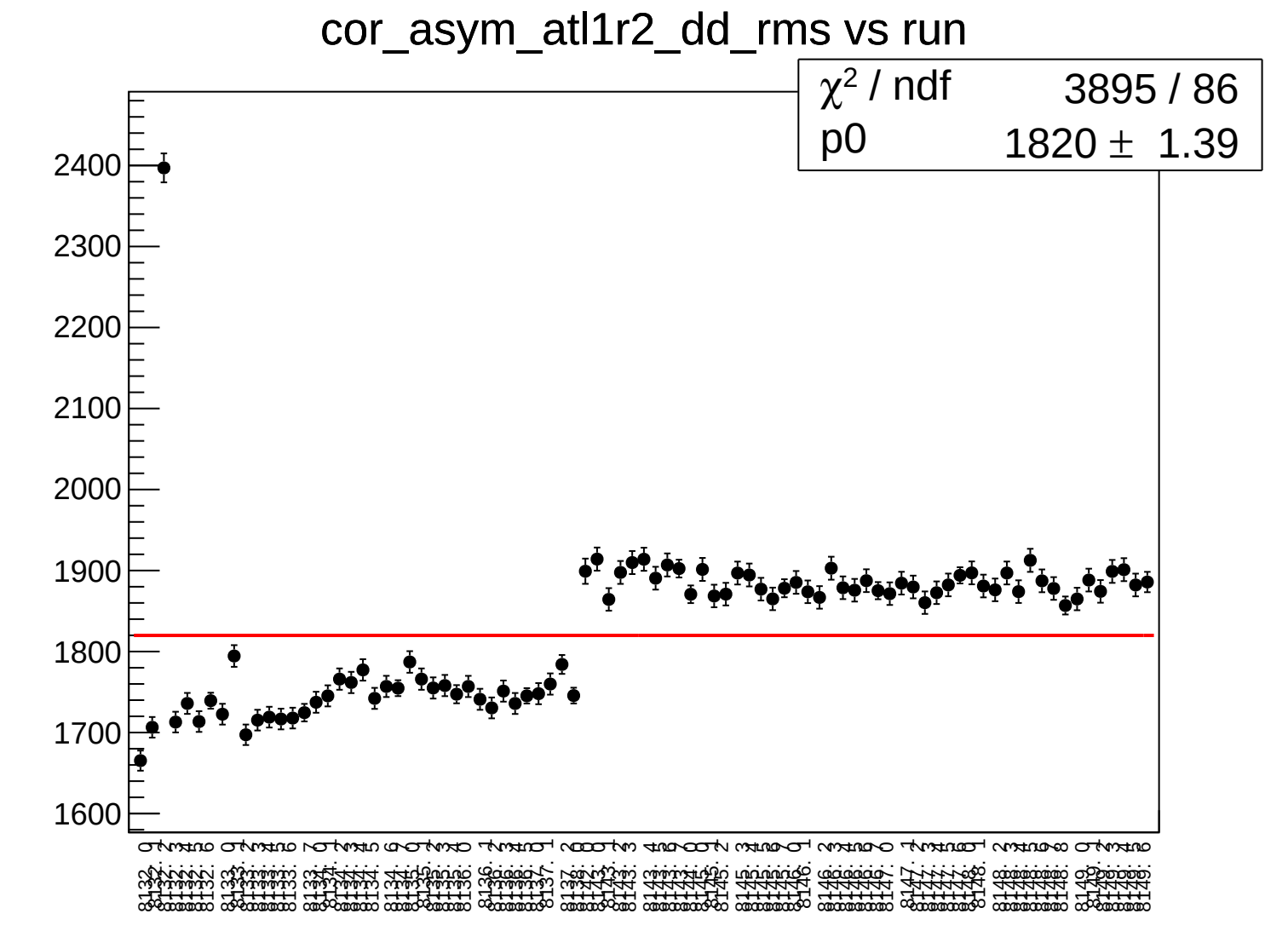

asym_atl1r2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 92.67 / 86
p0 −2768 ± 6996
200
100
0
−100
−200
pull
Entries 87
Mean −350
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

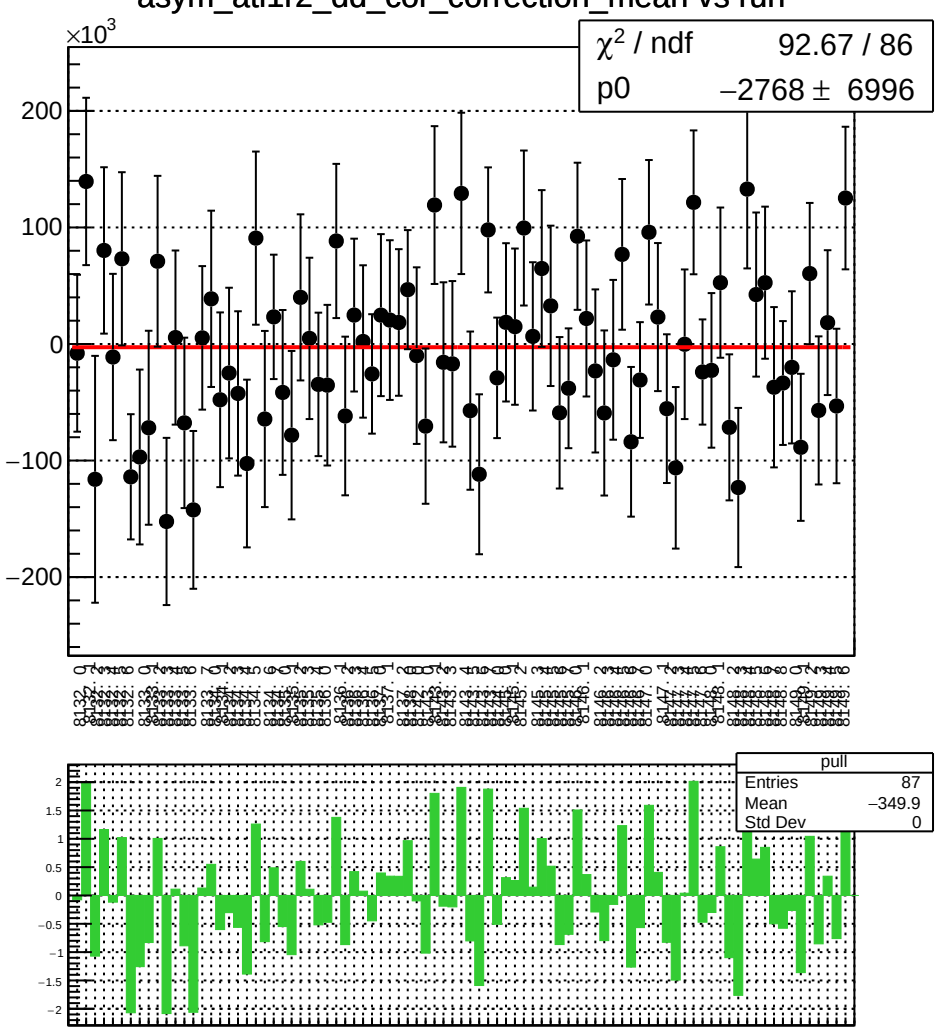

pull1D
Entries 87
Mean −0.007226
Std Dev 1.032
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

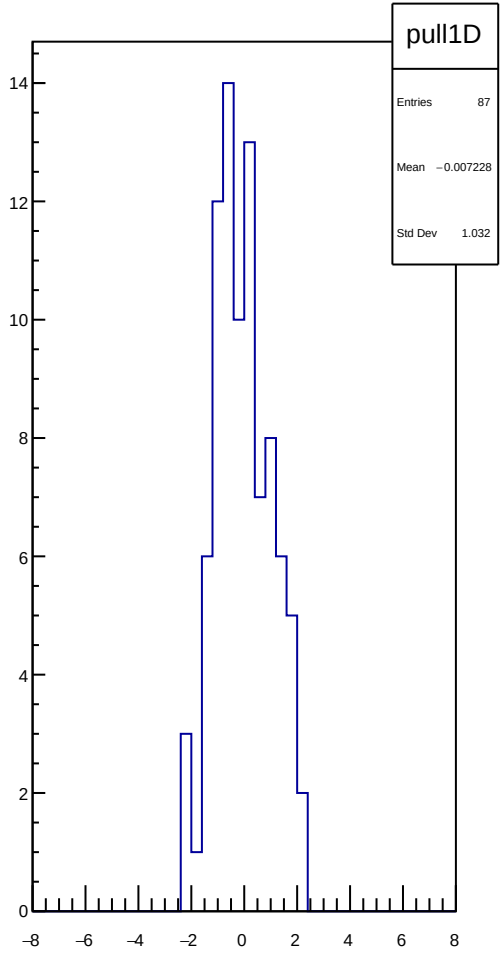

asym_atl1r2_dd_reg_correction_rms vs run
χ² / ndf 7405 / 86
p0 6471 ± 4.947
10000
9000
8000
7000
6000

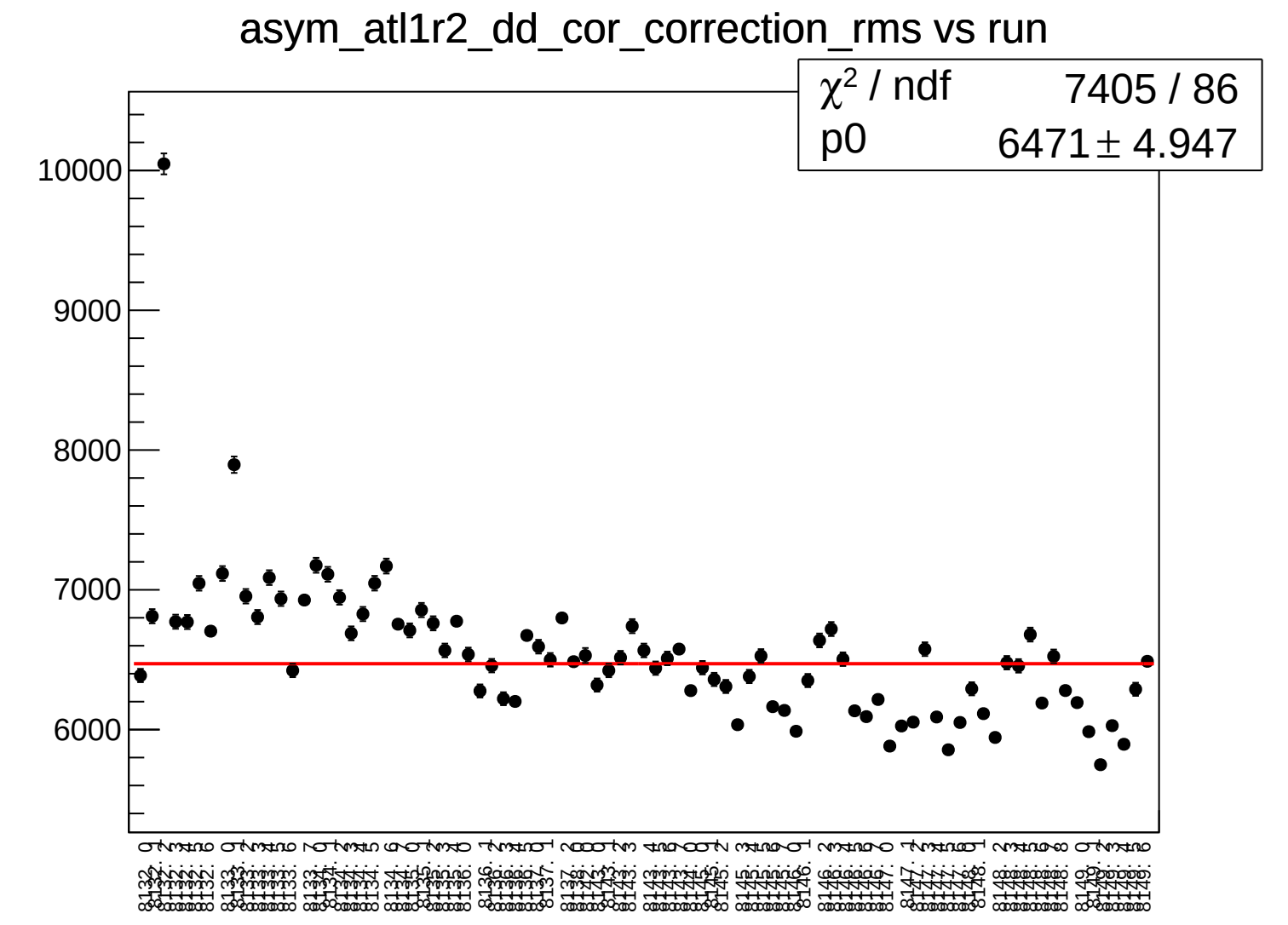

cor_asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 87.78 / 86
p0 −87.76 ± 1965
pull
Entries 87
Mean 769.8
Std Dev 0

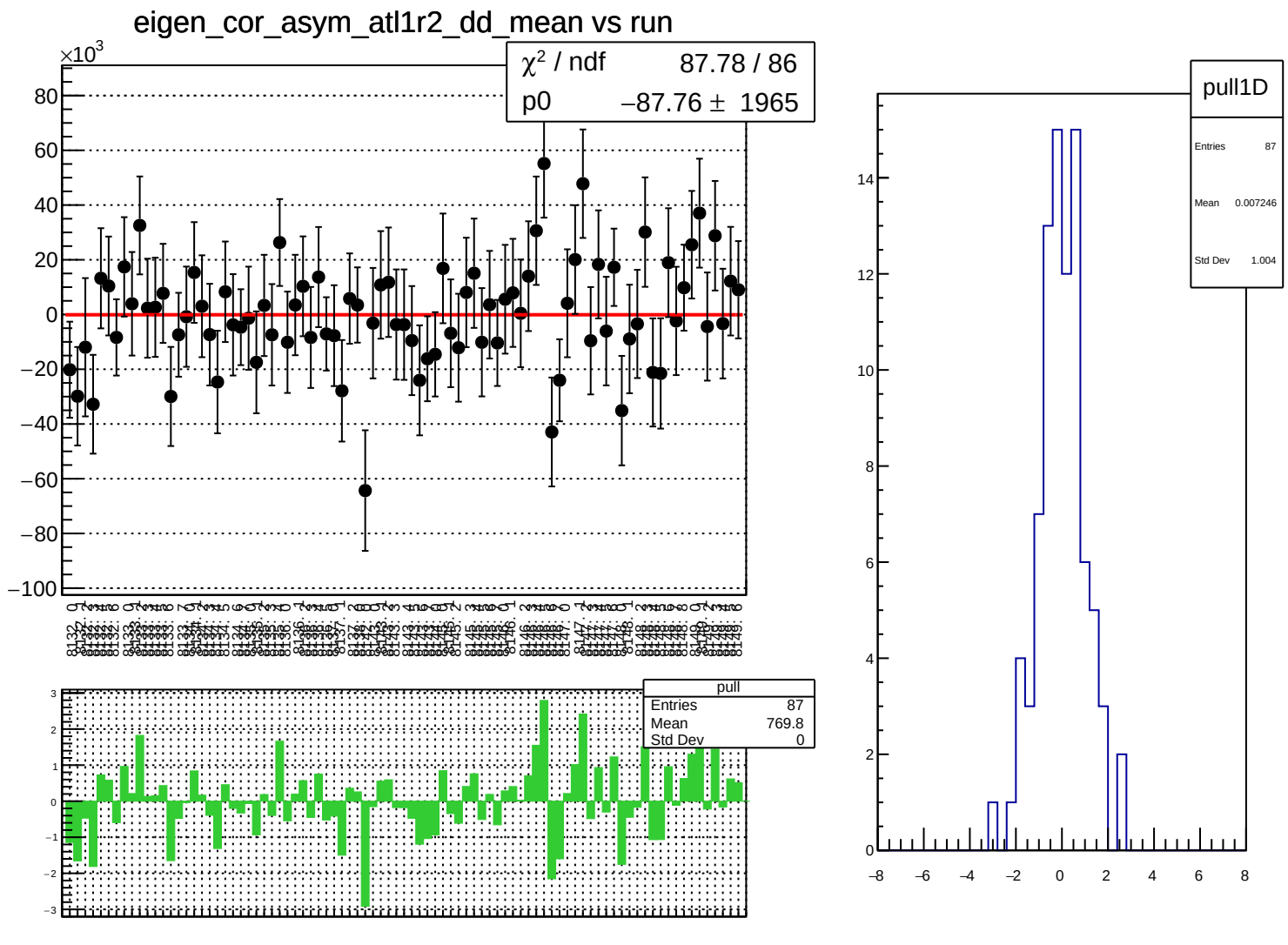

pull1D
Entries 87
Mean 0.007246
Std Dev 1.004

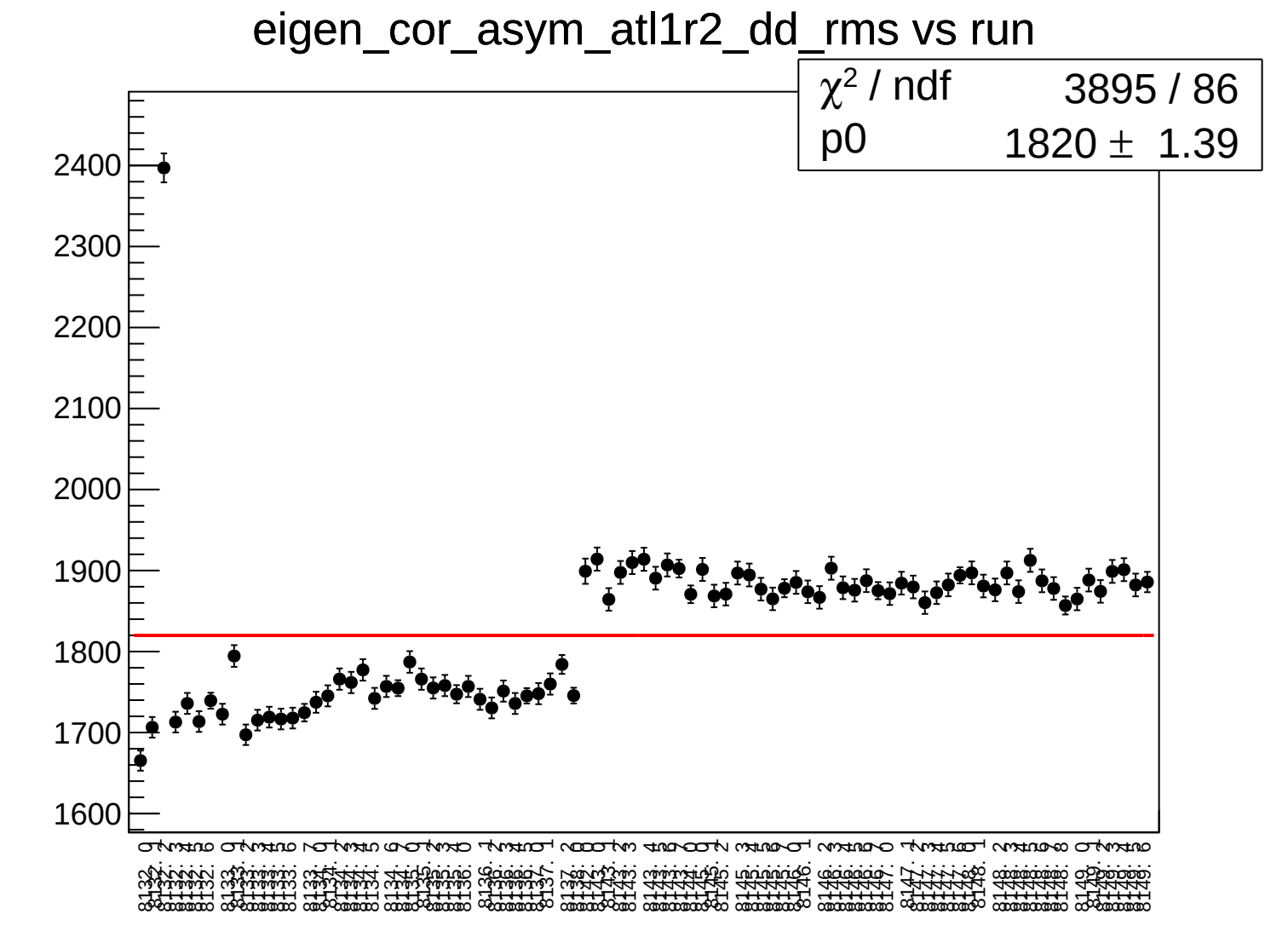

cor_asym_atl1r2_dd_rms vs run
χ² / ndf 3895 / 86
p0 1820 ± 1.39
2400
2300
2200
2100
2000
1900
1800
1700
1600

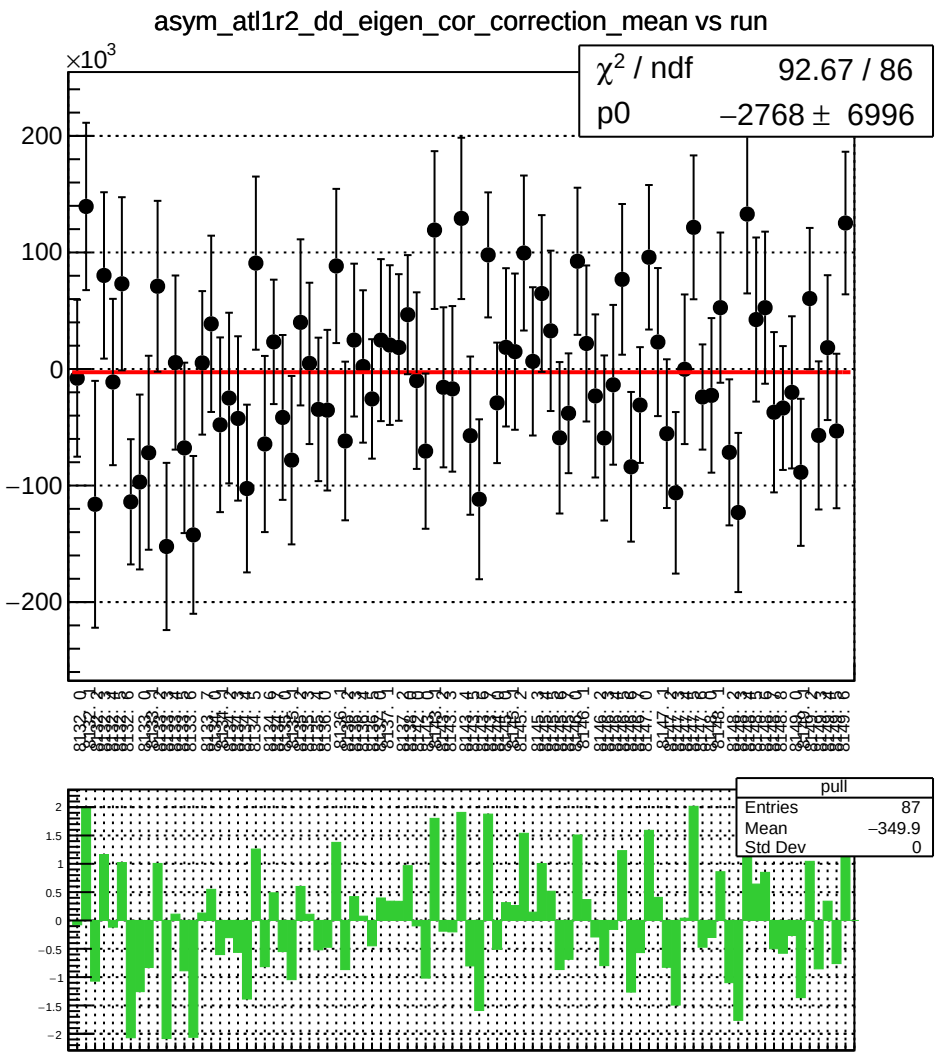

asym_atl1r2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 92.67 / 86
p0 −2768 ± 6996
200
100
0
−100
−200
pull
Entries 87
Mean −349.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

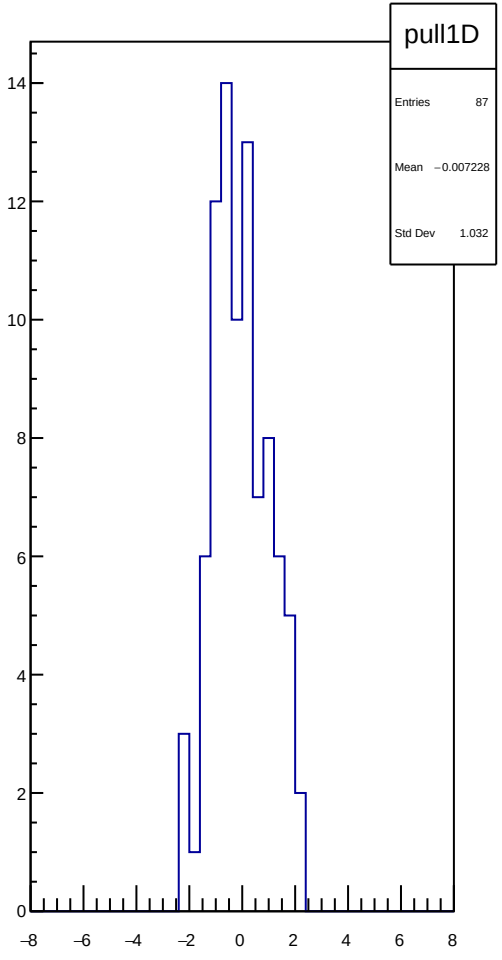

pull1D
Entries 87
Mean −0.007228
Std Dev 1.032
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

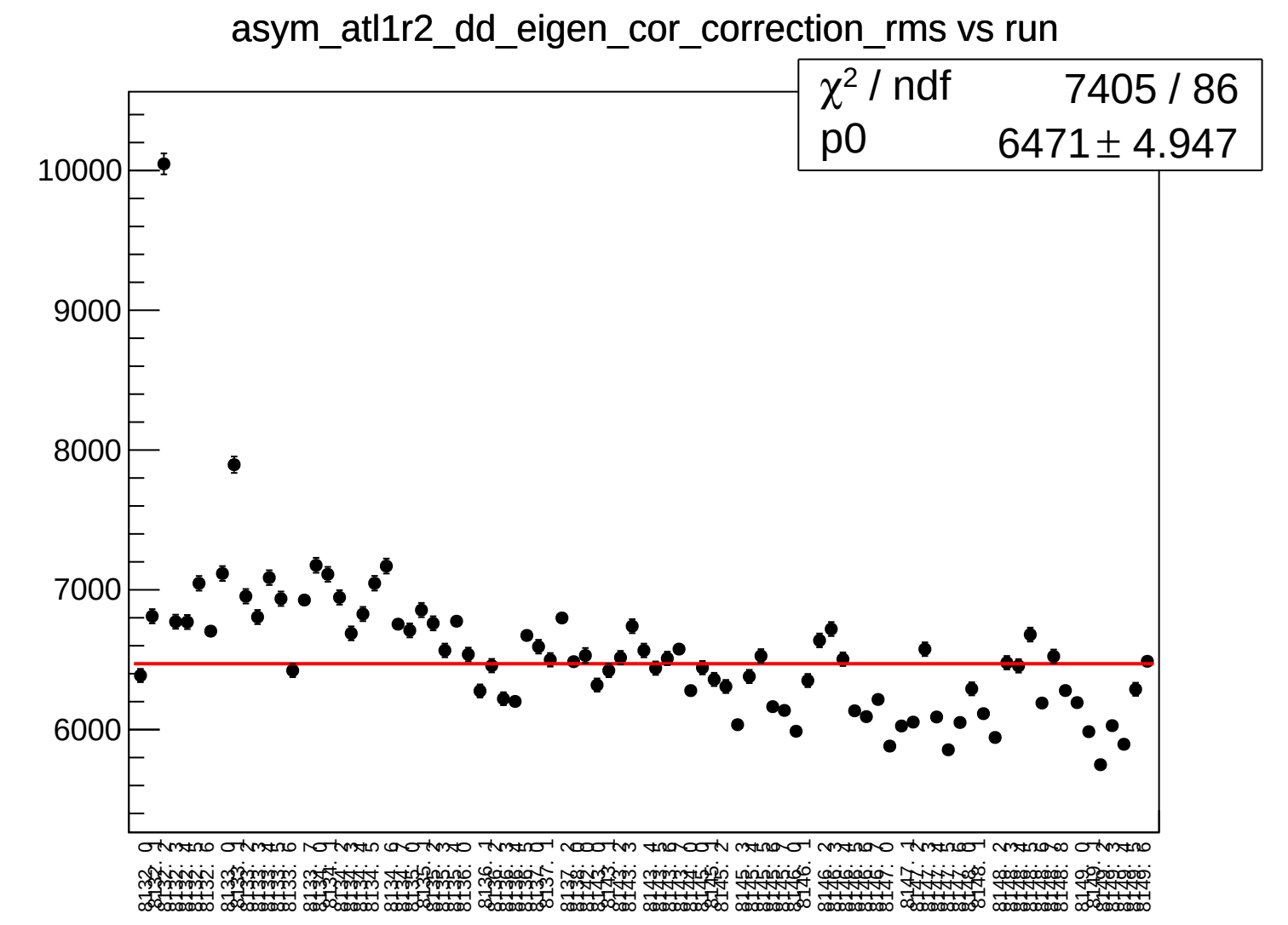

asym_atl1r2_dd_cor_correction_rms vs run
χ² / ndf 7405 / 86
p0 6471 ± 4.947
10000
9000
8000
7000
6000

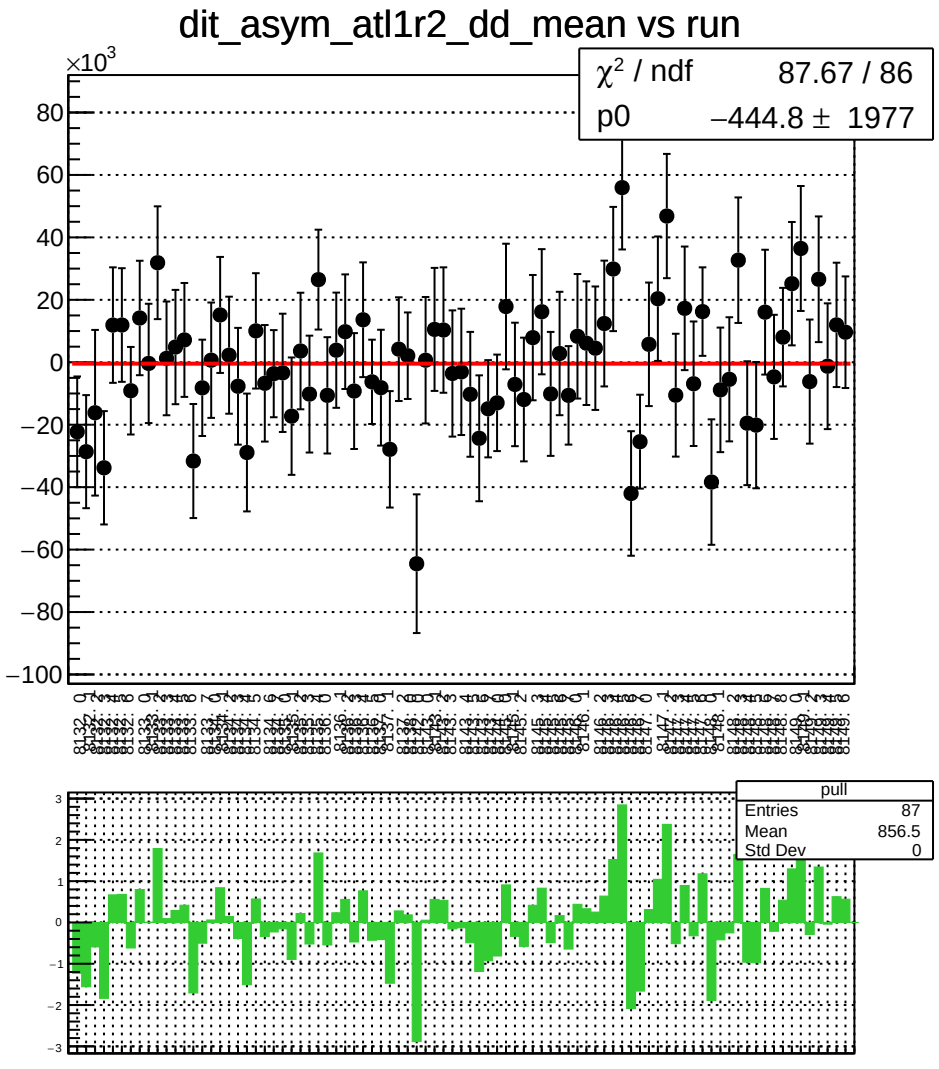

eigen_cor_asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 87.78 / 86
p0 −87.76 ± 1965
pull
Entries 87
Mean 769.8
Std Dev 0
pull1D
Entries 87
Mean 0.007246
Std Dev 1.004

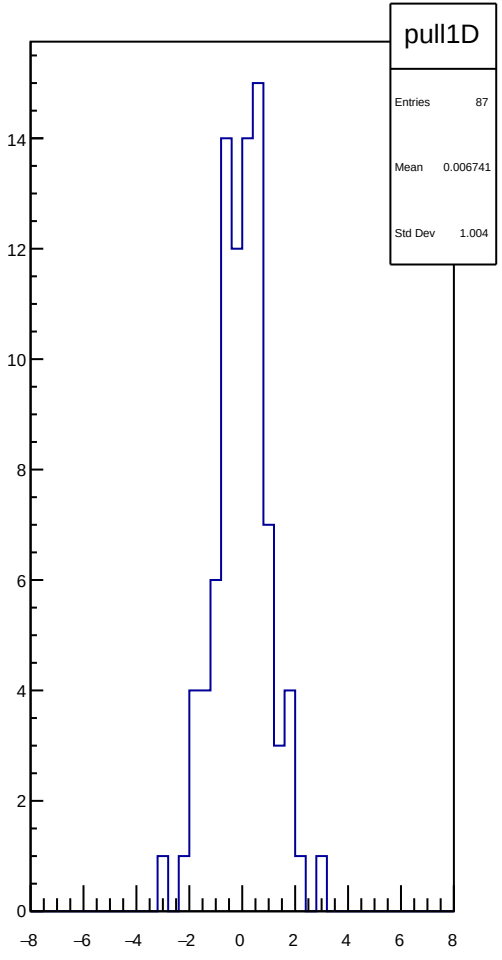

eigen_cor_asym_atl1r2_dd_rms vs run
χ² / ndf 3895 / 86
p0 1820 ± 1.39
2400
2300
2200
2100
2000
1900
1800
1700
1600

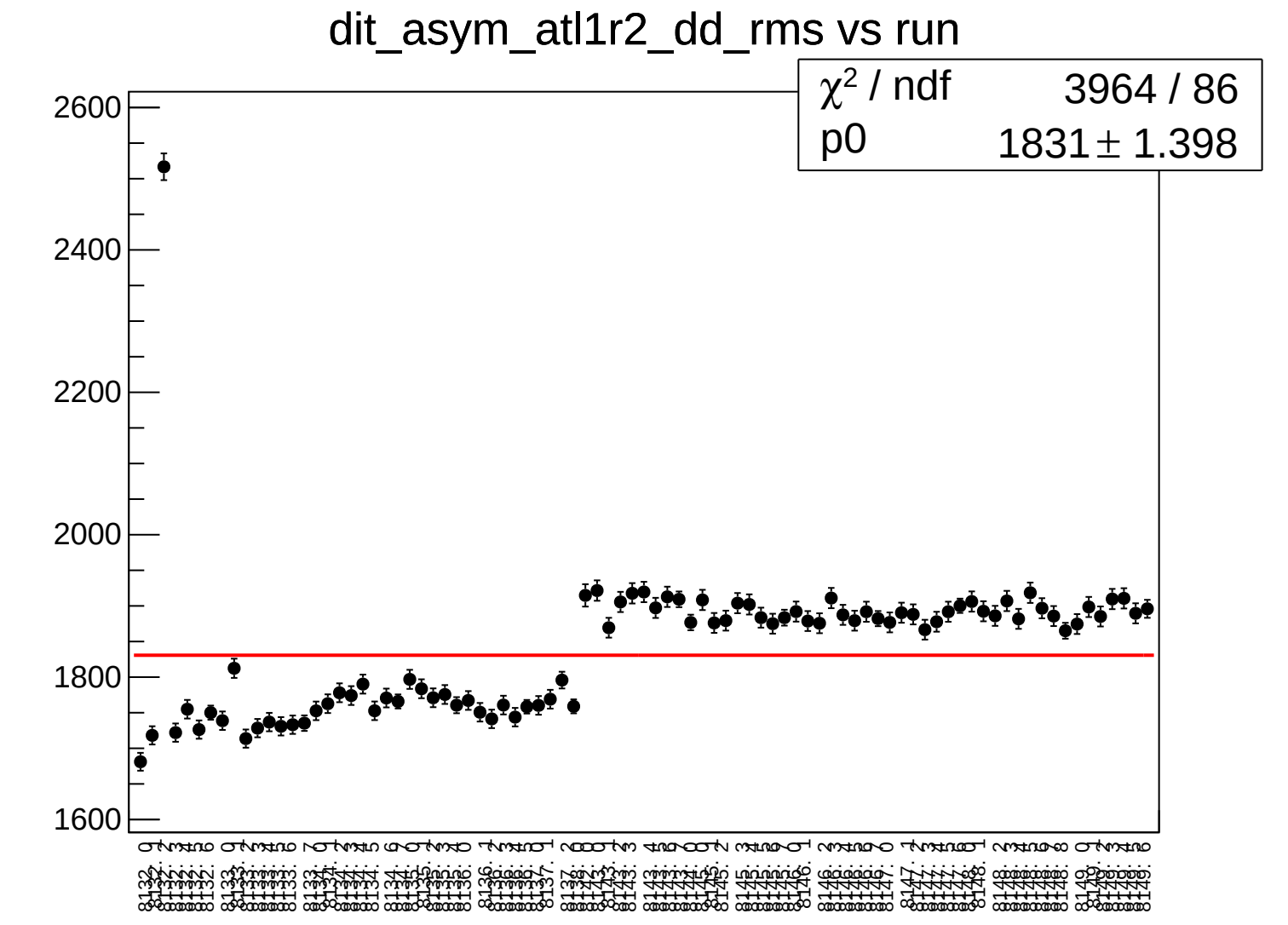

asym_atl1r2_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 92.67 / 86
p0 −2768 ± 6996
200
100
0
−100
−200
pull
Entries 87
Mean −349.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

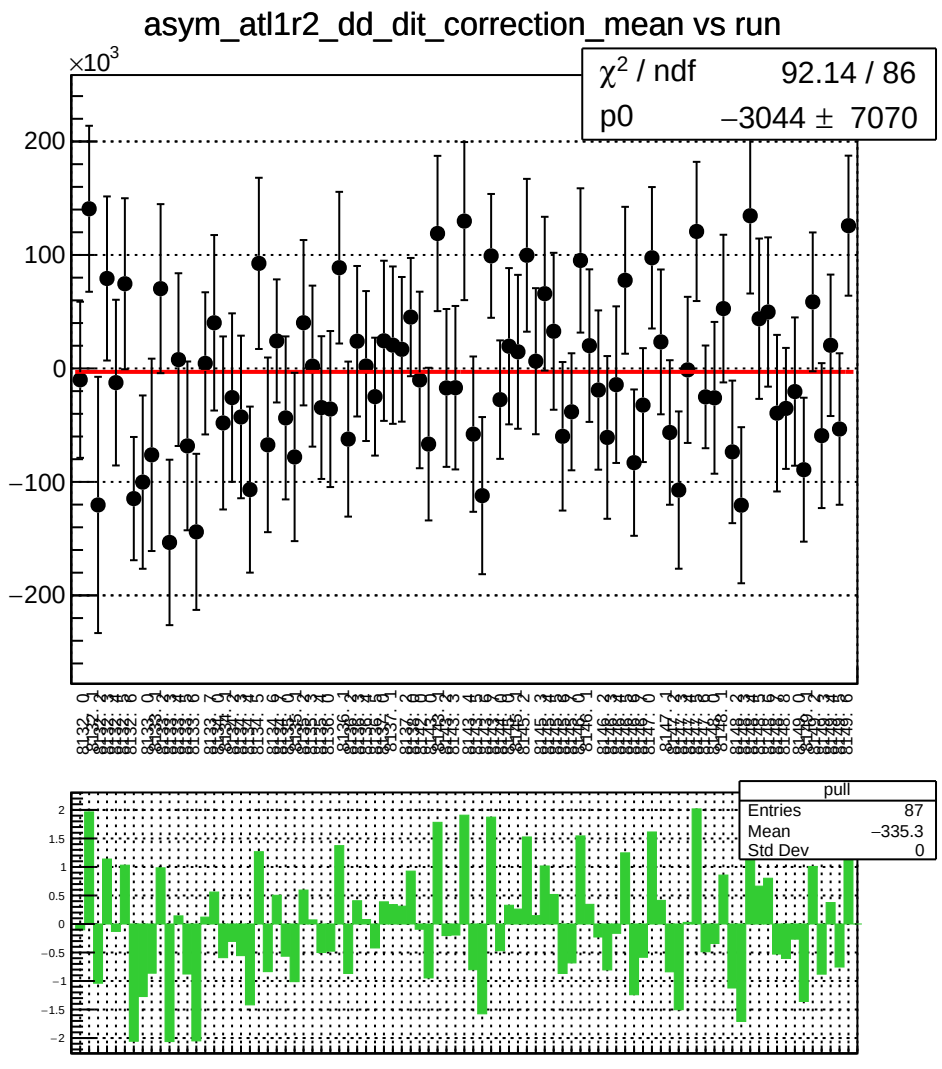

pull1D
Entries 87
Mean −0.007228
Std Dev 1.032
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

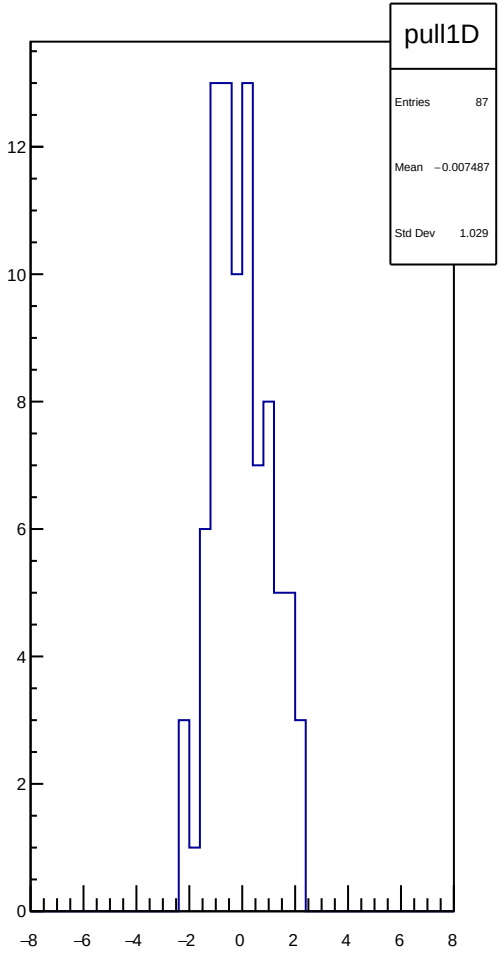

asym_atl1r2_dd_eigen_cor_correction_rms vs run
χ² / ndf 7405 / 86
p0 6471 ± 4.947
10000
9000
8000
7000
6000

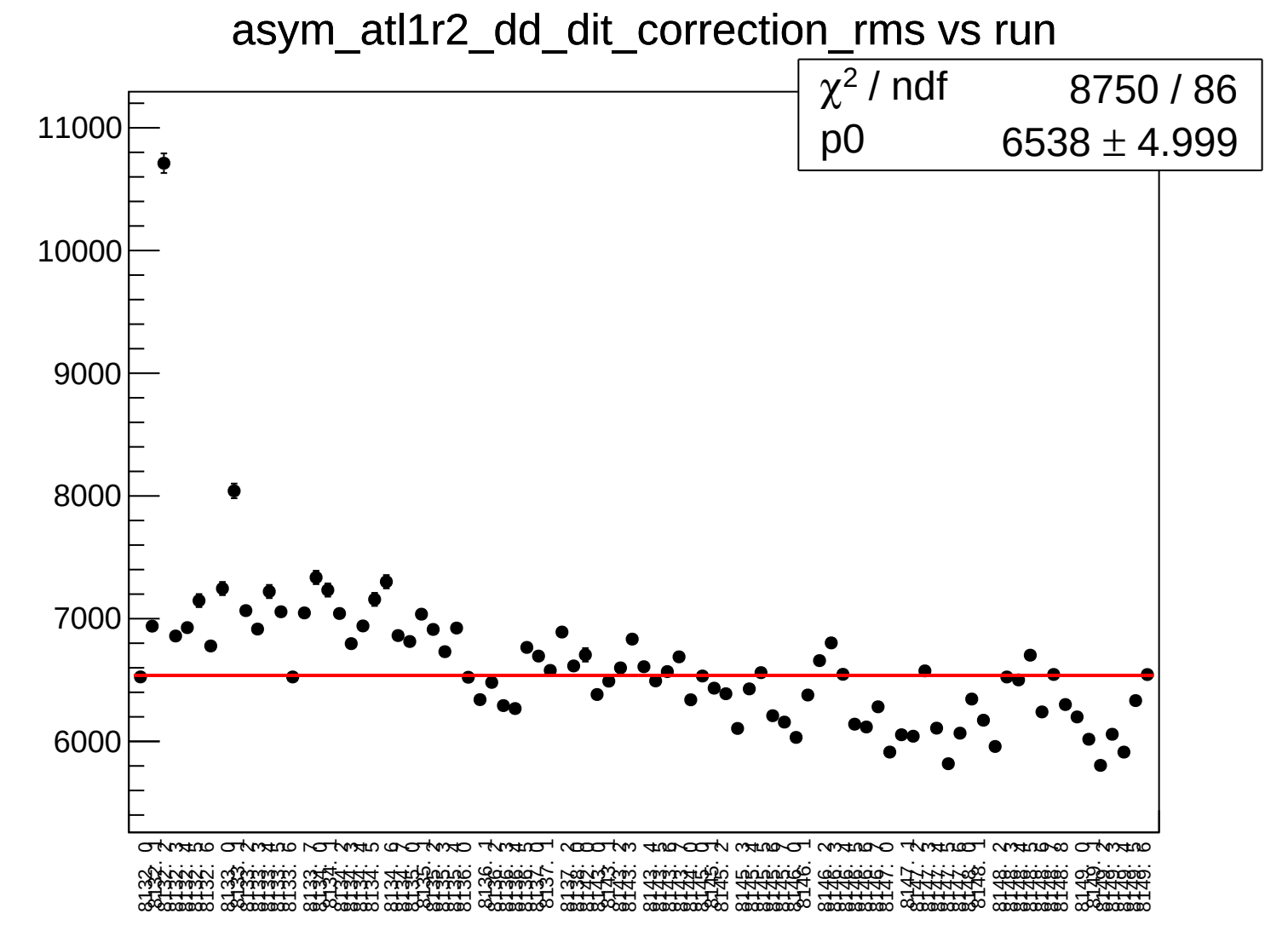

dit_asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 87.67 / 86
p0 −444.8 ± 1977
pull
Entries 87
Mean 856.5
Std Dev 0

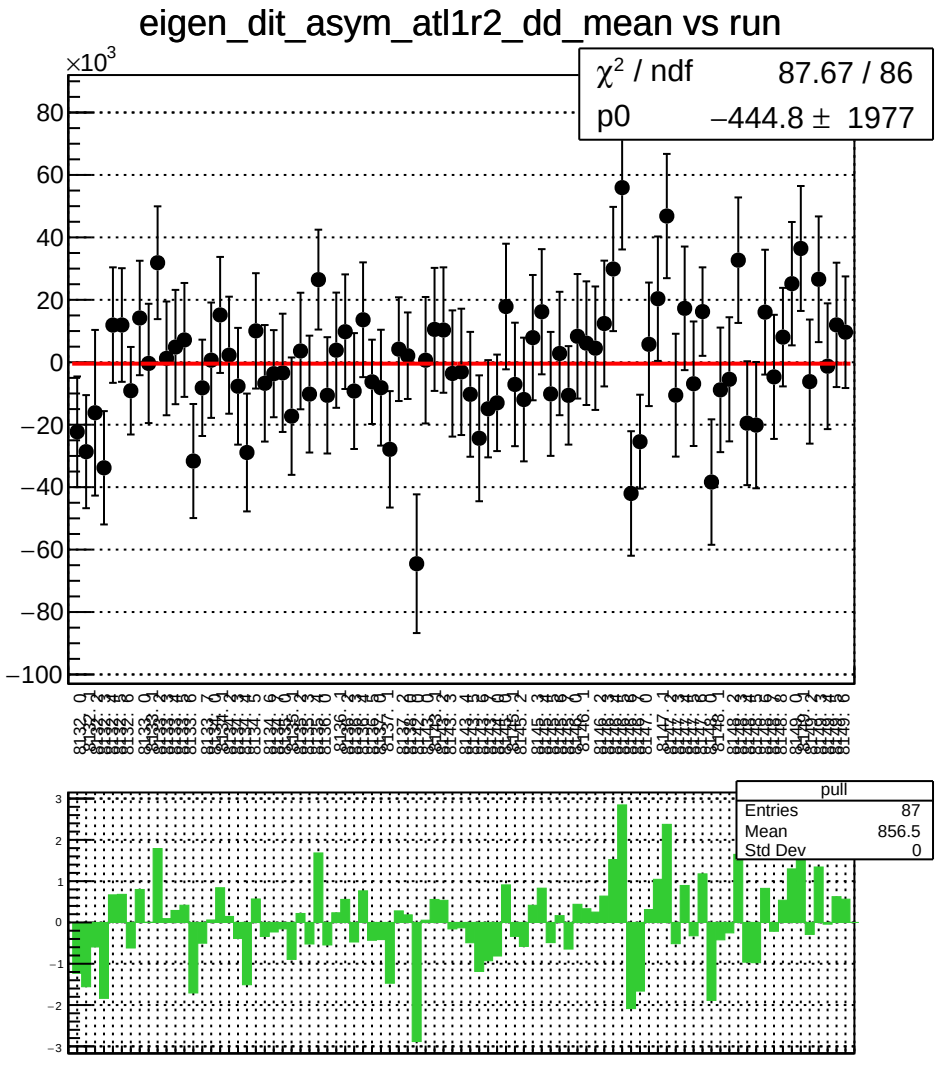

pull1D
Entries 87
Mean 0.006741
Std Dev 1.004

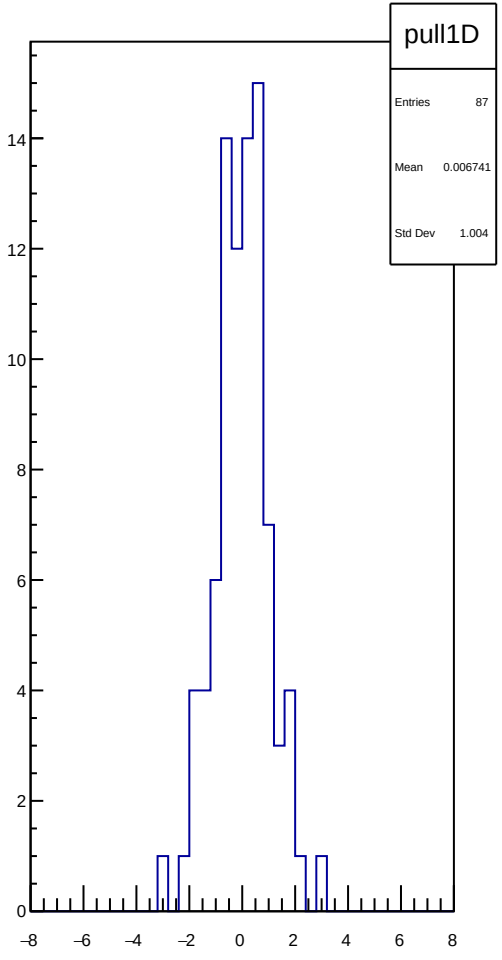

dit_asym_atl1r2_dd_rms vs run
χ^2 / ndf 3964 / 86
p0 1831 ± 1.398
2600
2400
2200
2000
1800
1600

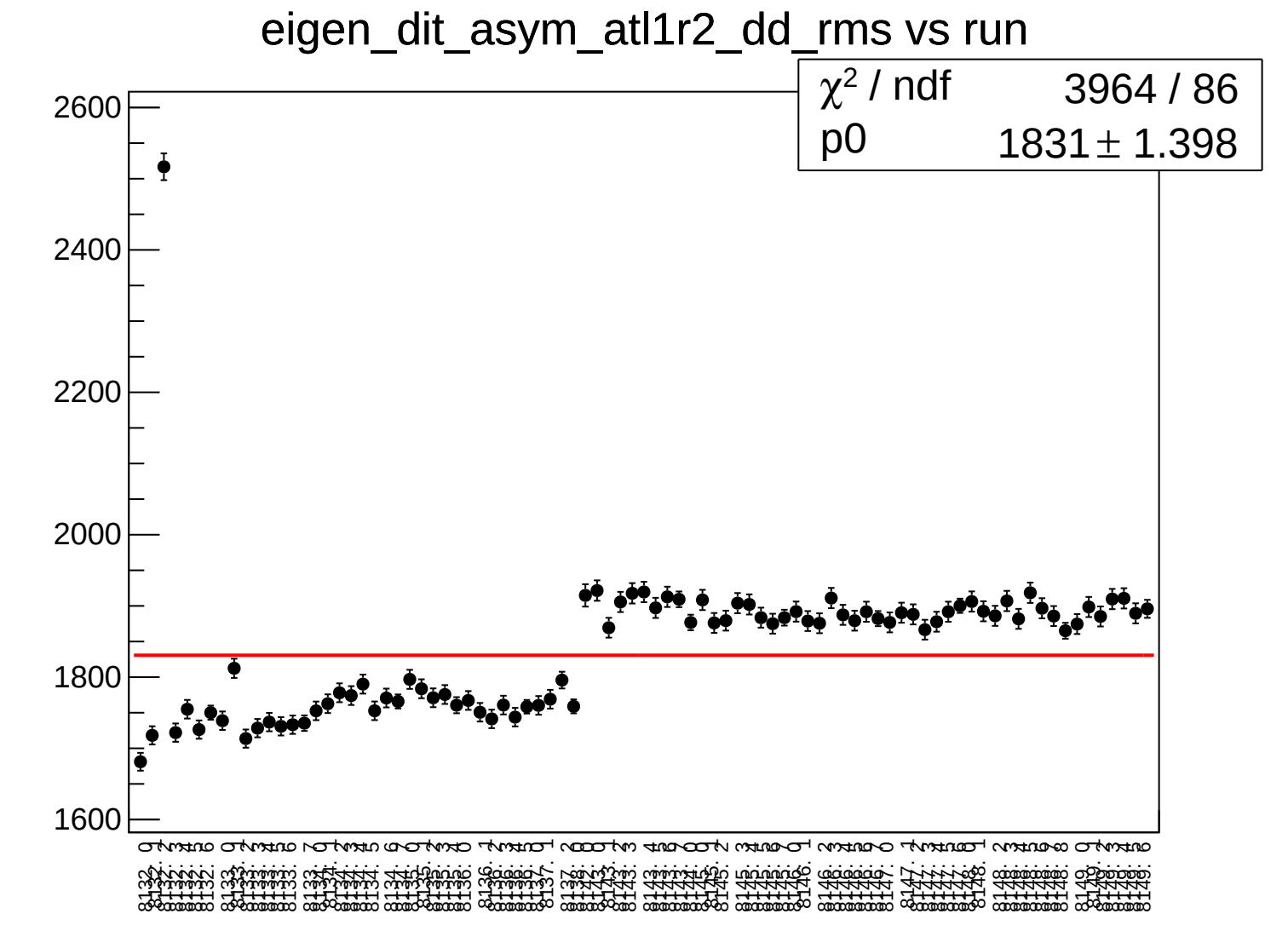

asym_atl1r2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 92.14 / 86
p0 −3044 ± 7070
200
100
0
−100
−200
pull
Entries 87
Mean −335.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

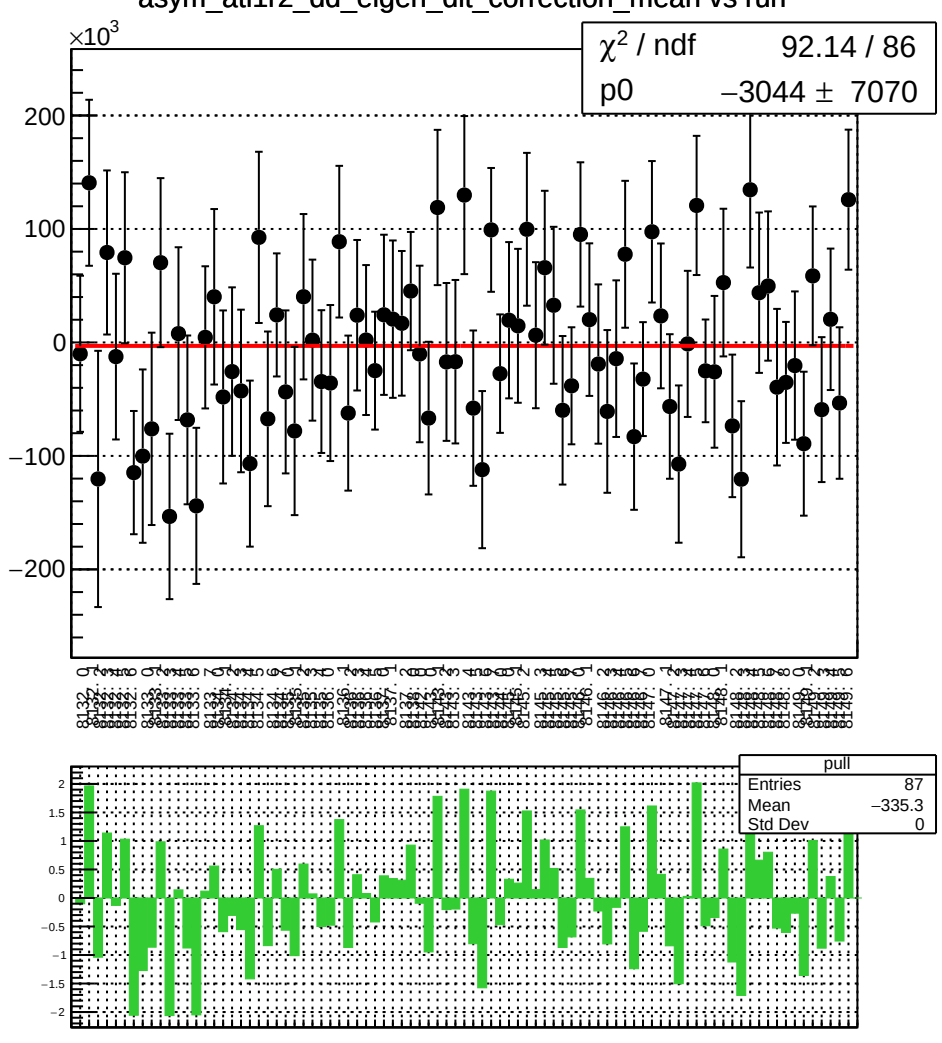

pull1D
Entries 87
Mean −0.007487
Std Dev 1.029
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

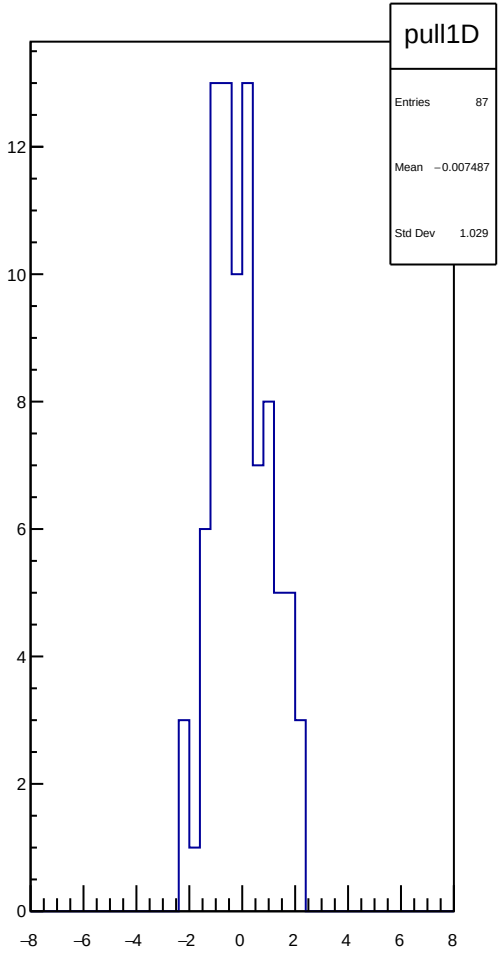

asym_atl1r2_dd_dit_correction_rms vs run
χ² / ndf 8750 / 86
p0 6538 ± 4.999
11000
10000
9000
8000
7000
6000

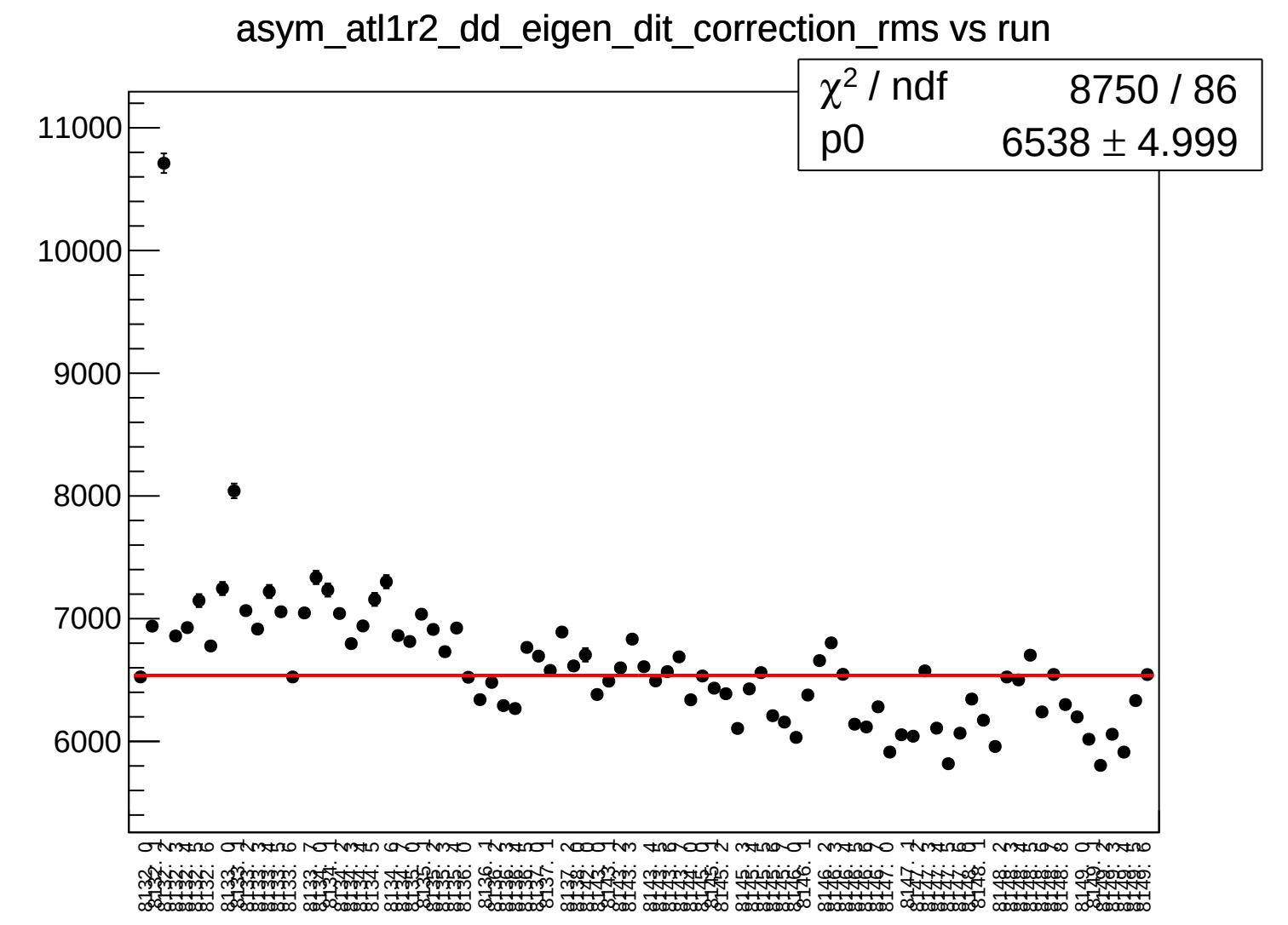

eigen_dit_asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 87.67 / 86
p0 −444.8 ± 1977
pull
Entries 87
Mean 856.5
Std Dev 0

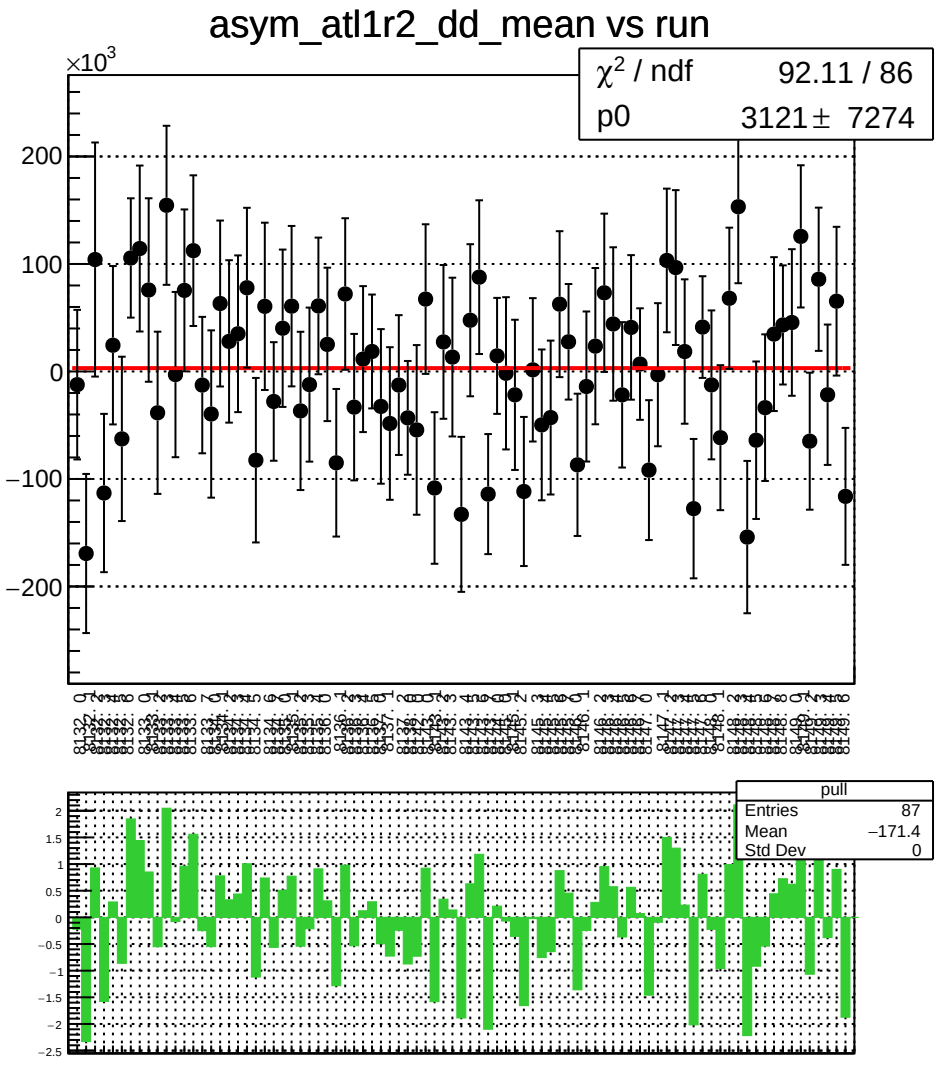

pull1D
Entries 87
Mean 0.006741
Std Dev 1.004

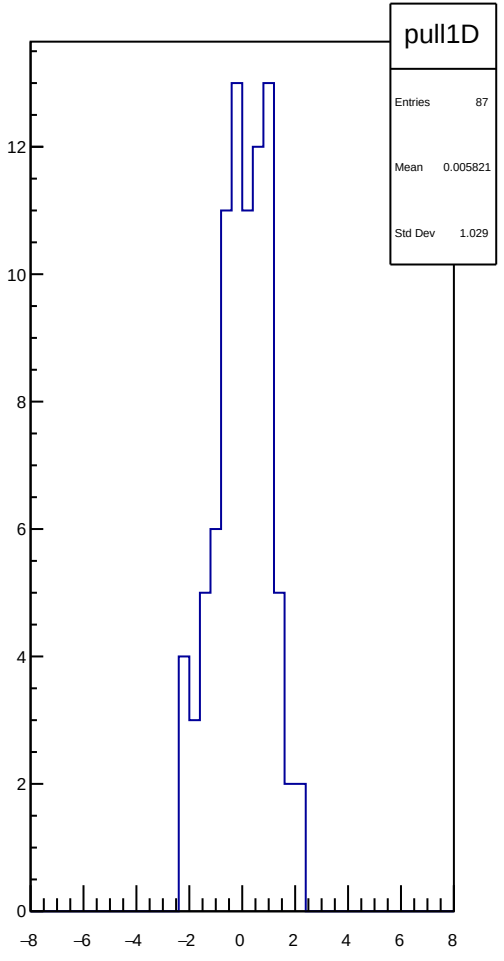

eigen_dit_asym_atl1r2_dd_rms vs run
χ² / ndf 3964 / 86
p0 1831 ± 1.398
2600
2400
2200
2000
1800
1600

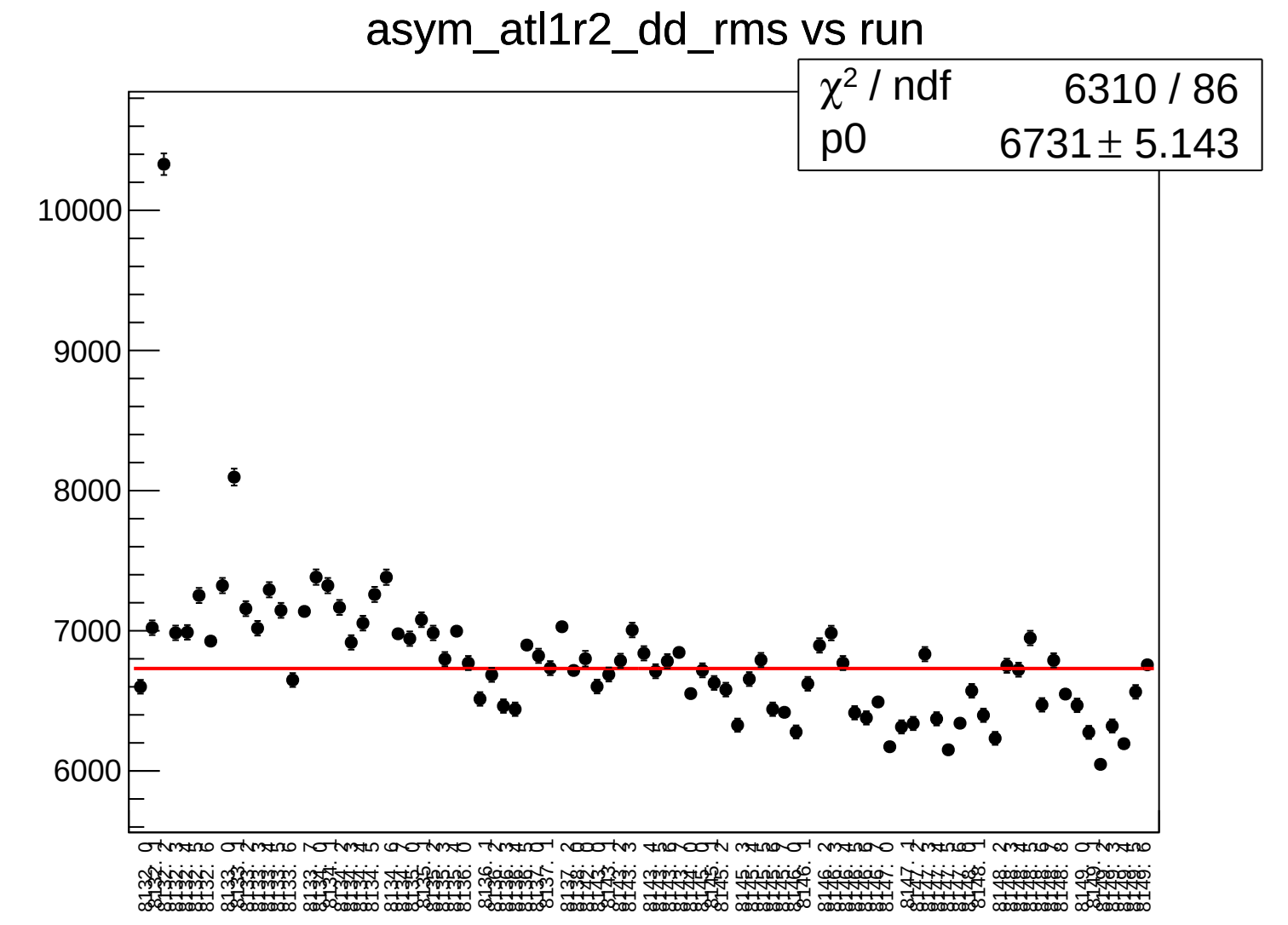

asym_atl1r2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 92.14 / 86
p0 −3044 ± 7070
200
100
0
−100
−200
pull
Entries 87
Mean −335.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

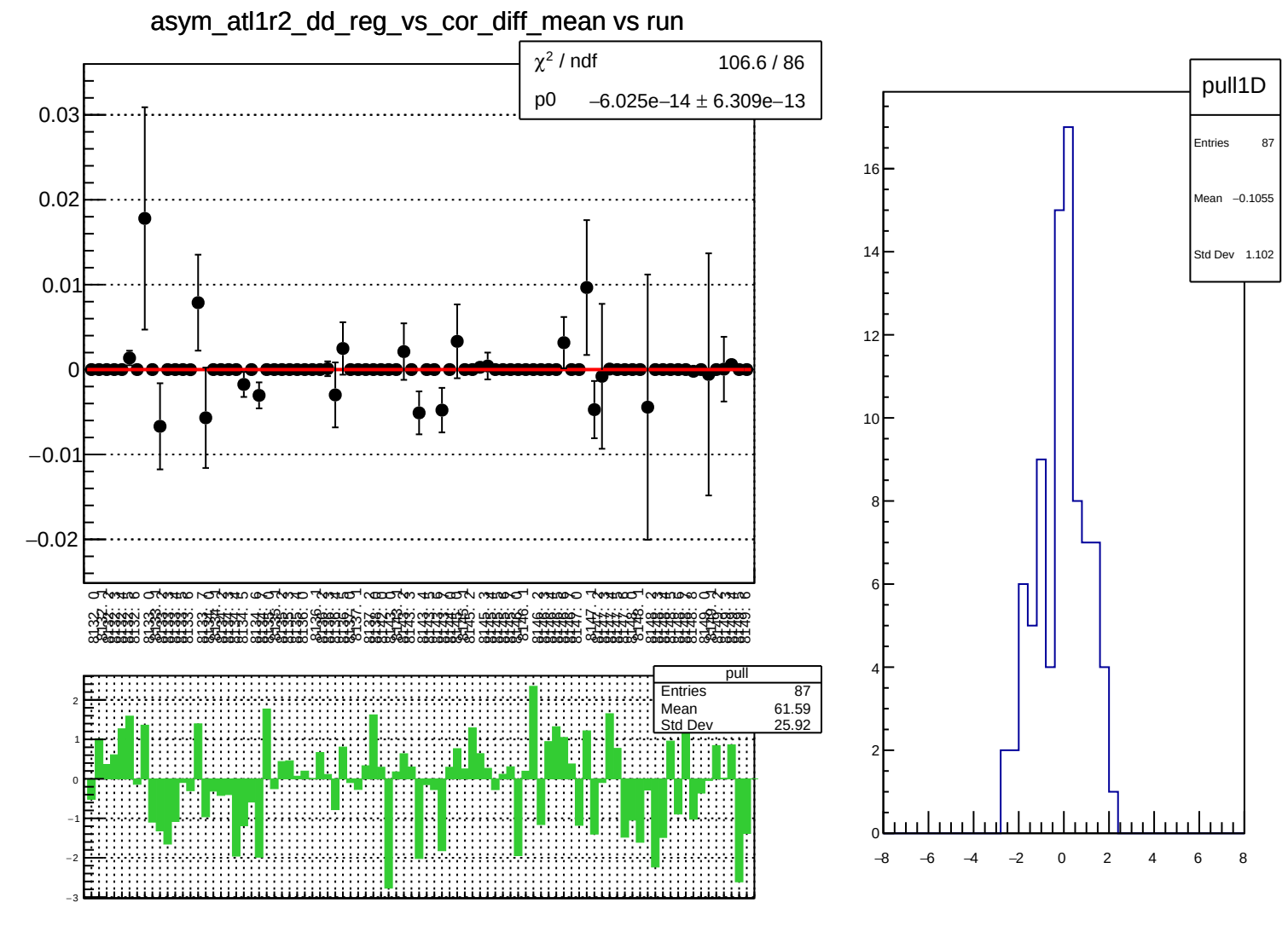

pull1D
Entries 87
Mean −0.007487
Std Dev 1.029
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

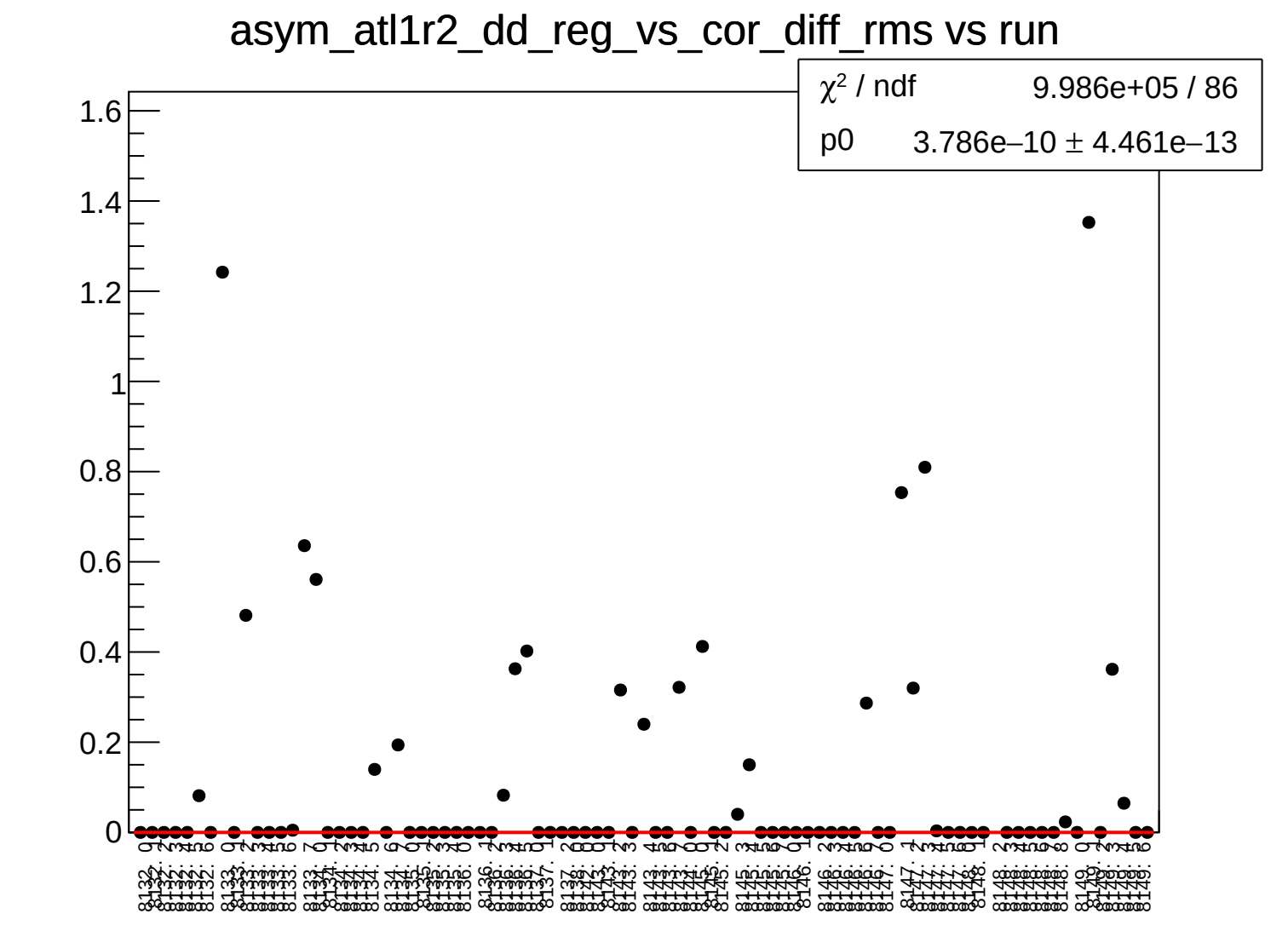

asym_atl1r2_dd_eigen_dit_correction_rms vs run
χ² / ndf 8750 / 86
p0 6538 ± 4.999
11000
10000
9000
8000
7000
6000

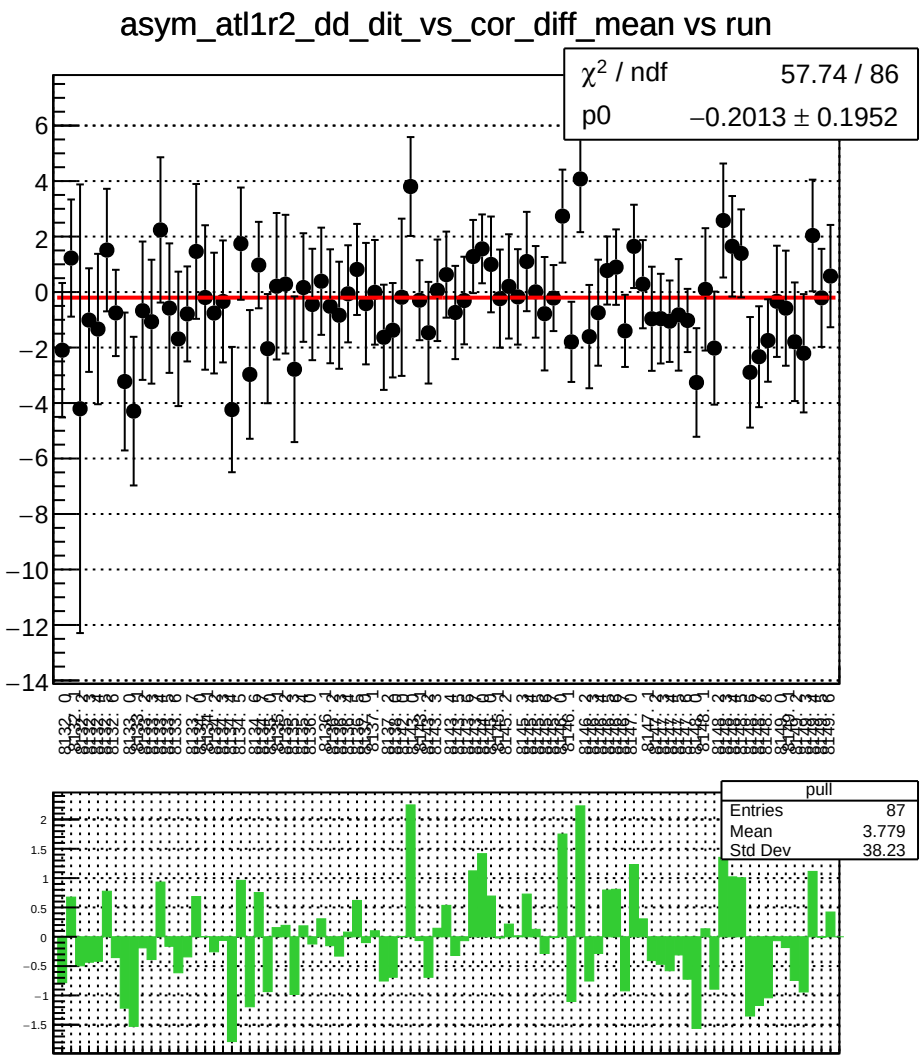

asym_atl1r2_dd_mean vs run
×10^3
χ^2 / ndf 92.11 / 86
p0 3121 ± 7274
200
100
0
−100
−200
pull
Entries 87
Mean −171.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

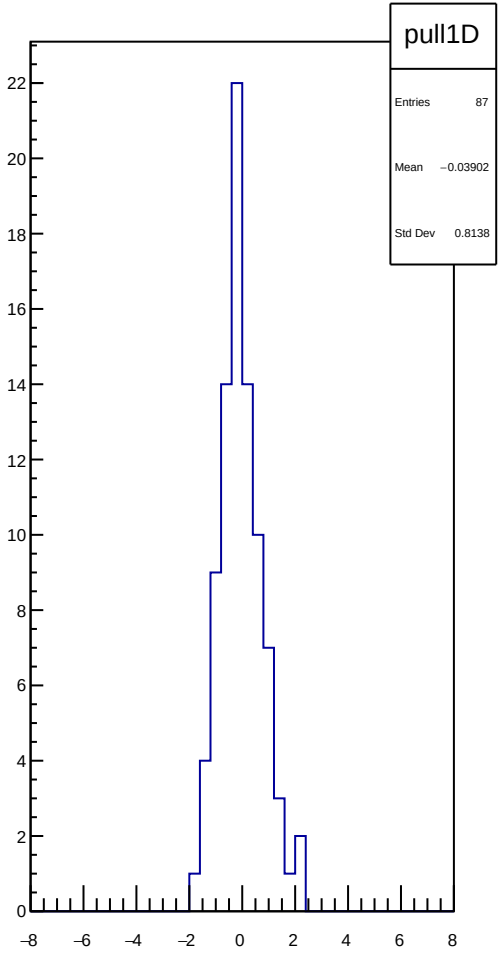

pull1D
Entries 87
Mean 0.005821
Std Dev 1.029
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

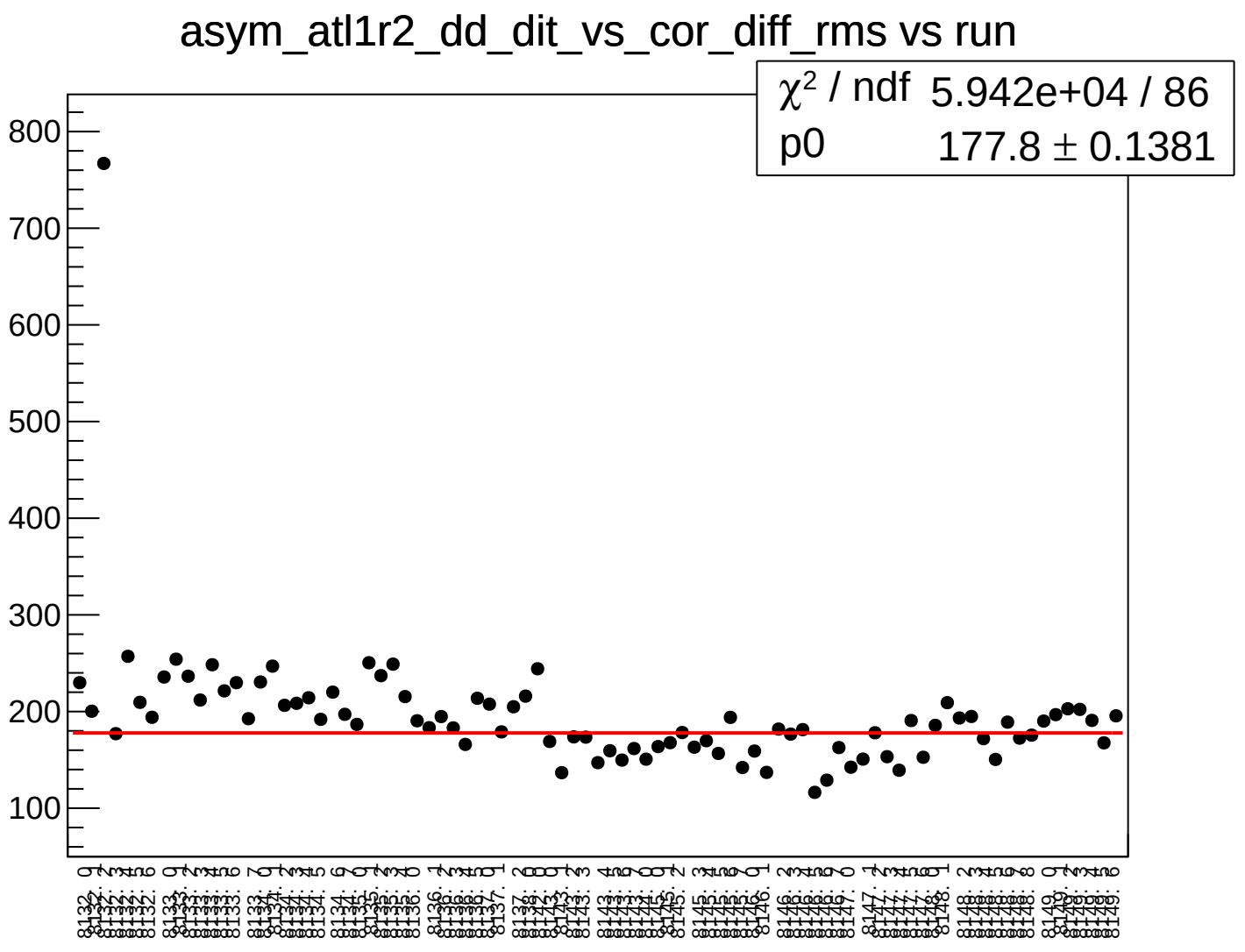

asym_atl1r2_dd_rms vs run
χ² / ndf 6310 / 86
p0 6731 ± 5.143
10000
9000
8000
7000
6000

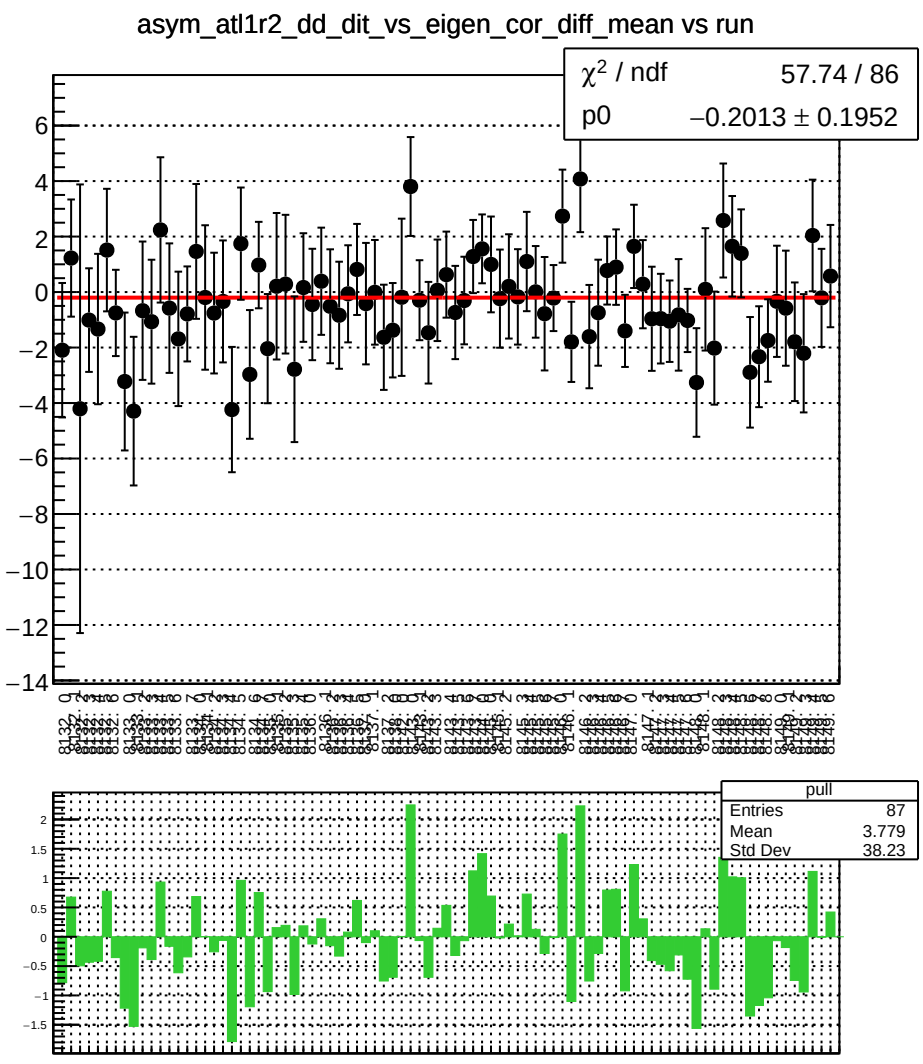

asym_atl1r2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 106.6 / 86
p0 −6.025e−14 ± 6.309e−13
pull
Entries 87
Mean 61.59
Std Dev 25.92
pull1D
Entries 87
Mean −0.1055
Std Dev 1.102

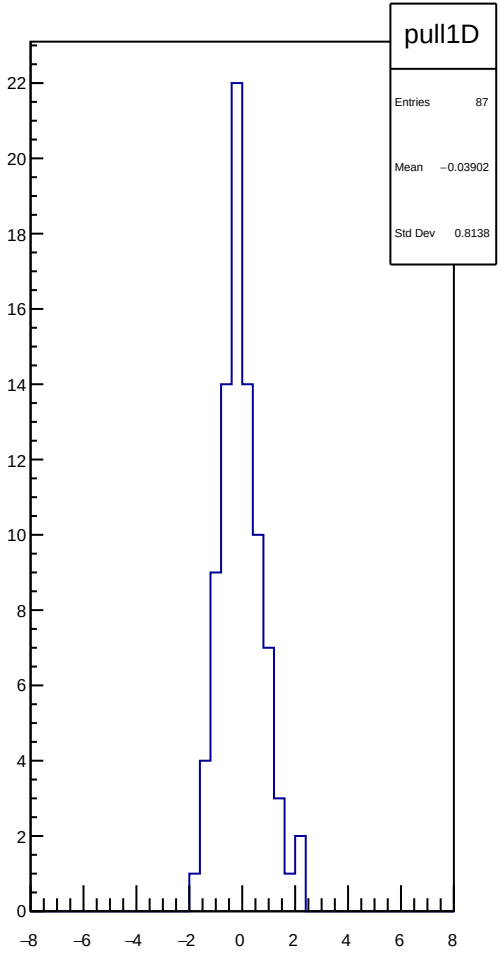

asym_atl1r2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.986e+05 / 86
p0 3.786e−10 ± 4.461e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

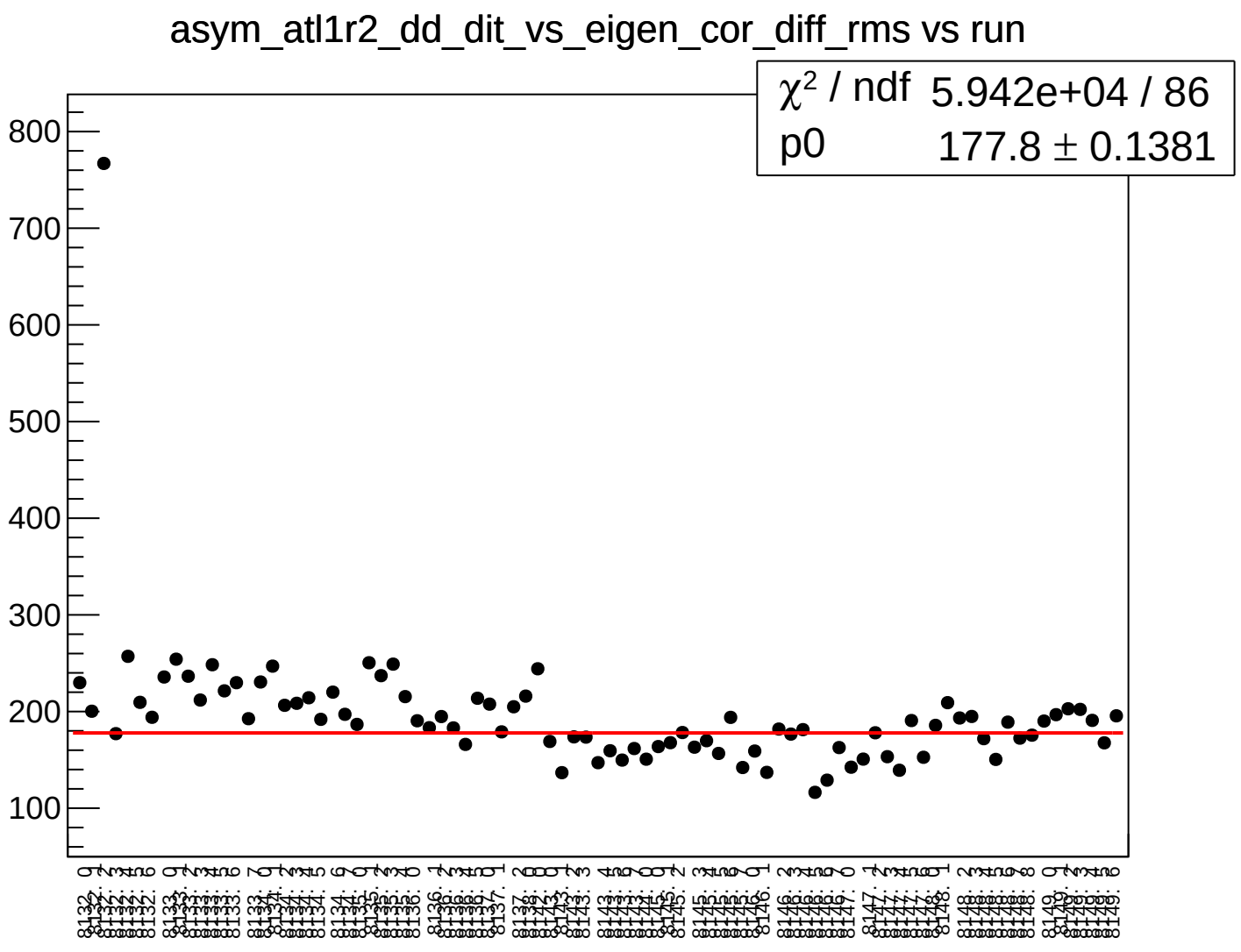

asym_atl1r2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 57.74 / 86
p0 −0.2013 ± 0.1952
pull
Entries 87
Mean 3.779
Std Dev 38.23

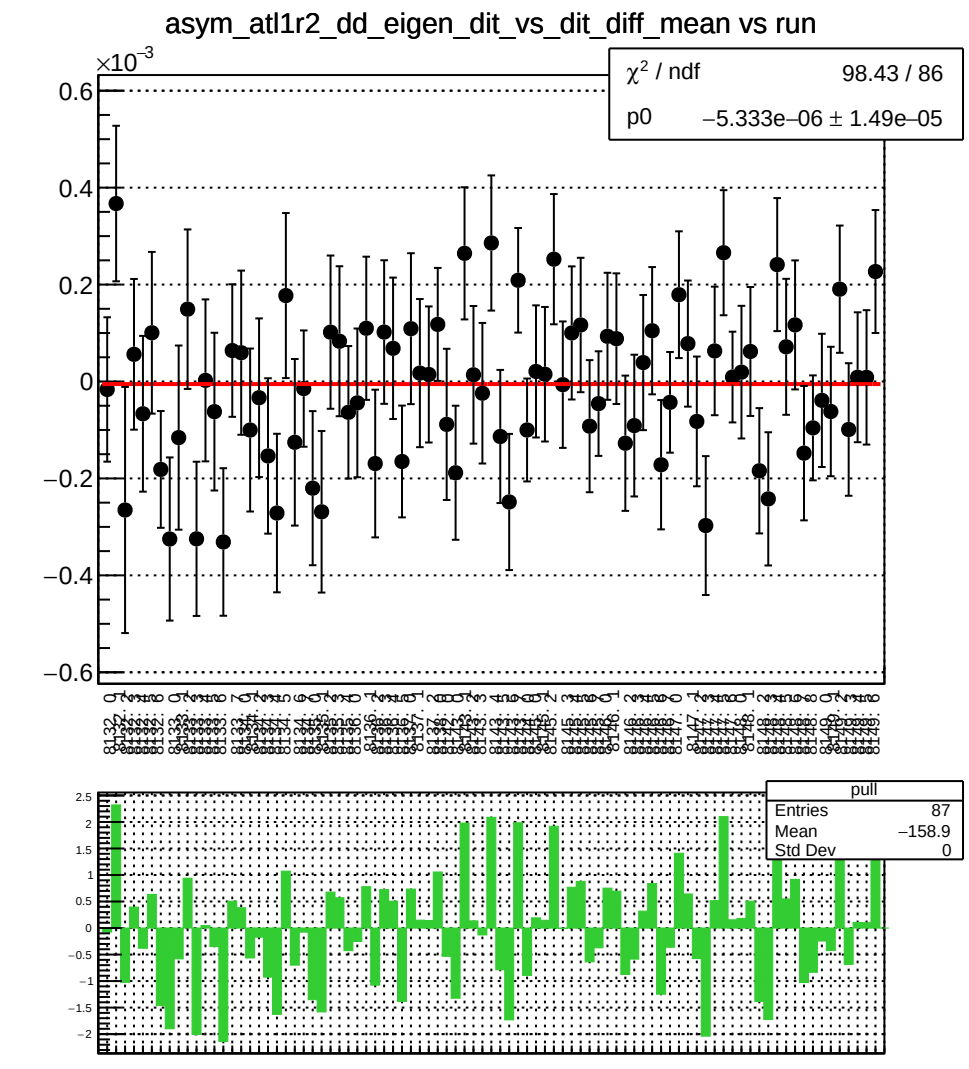

pull1D
Entries 87
Mean −0.03902
Std Dev 0.8138

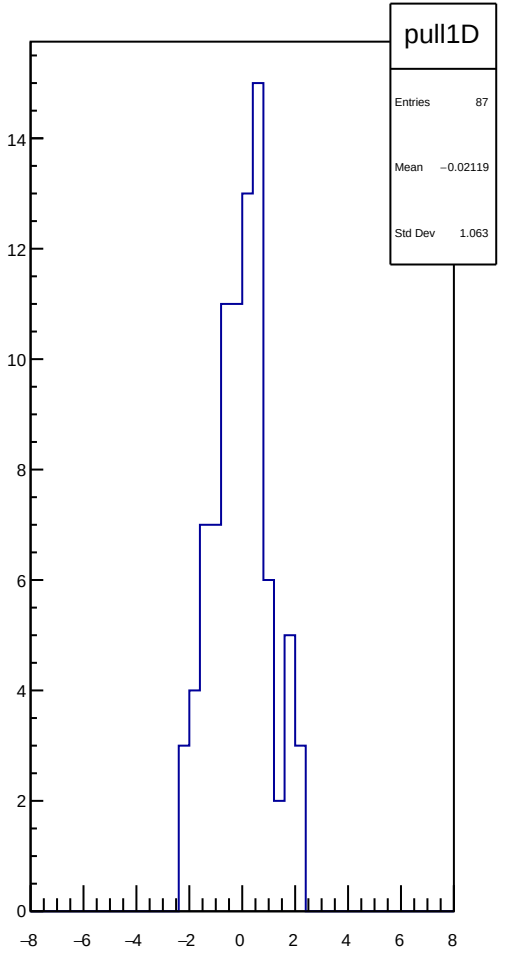

asym_atl1r2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.942e+04 / 86
p0 177.8 ± 0.1381
800
700
600
500
400
300
200
100

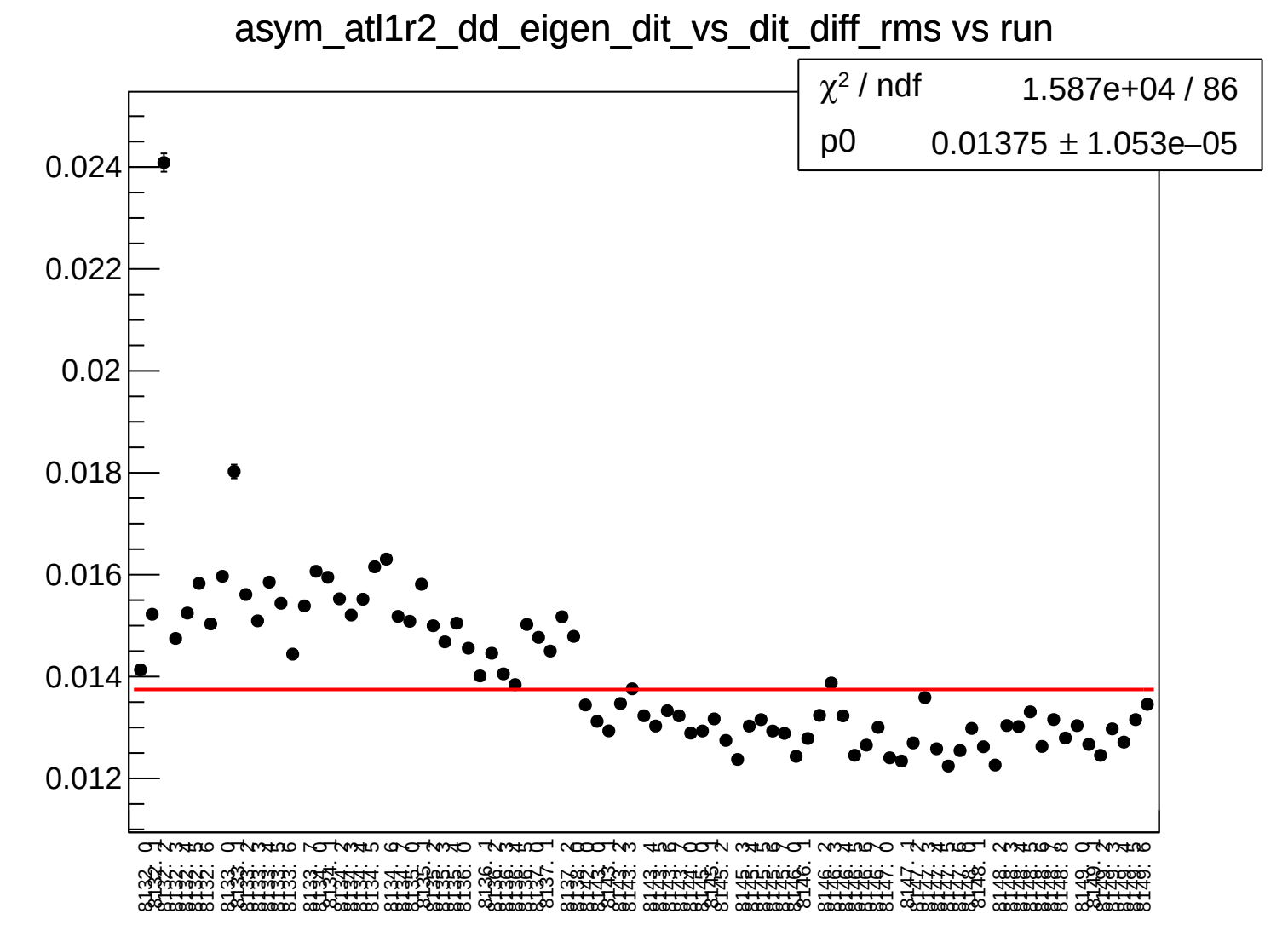

asym_atl1r2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 57.74 / 86
p0 −0.2013 ± 0.1952
pull
Entries 87
Mean 3.779
Std Dev 38.23

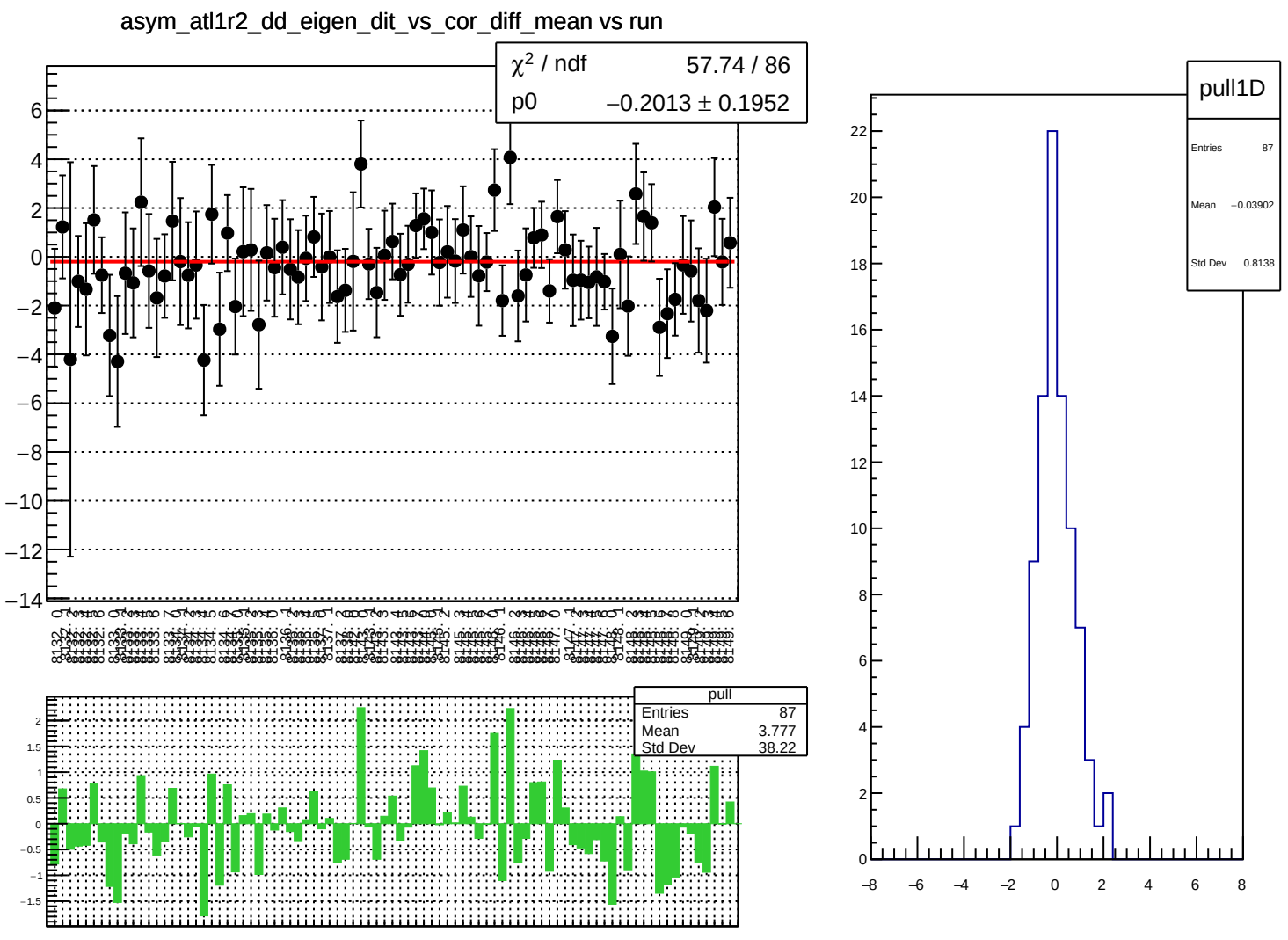

pull1D
Entries 87
Mean −0.03902
Std Dev 0.8138

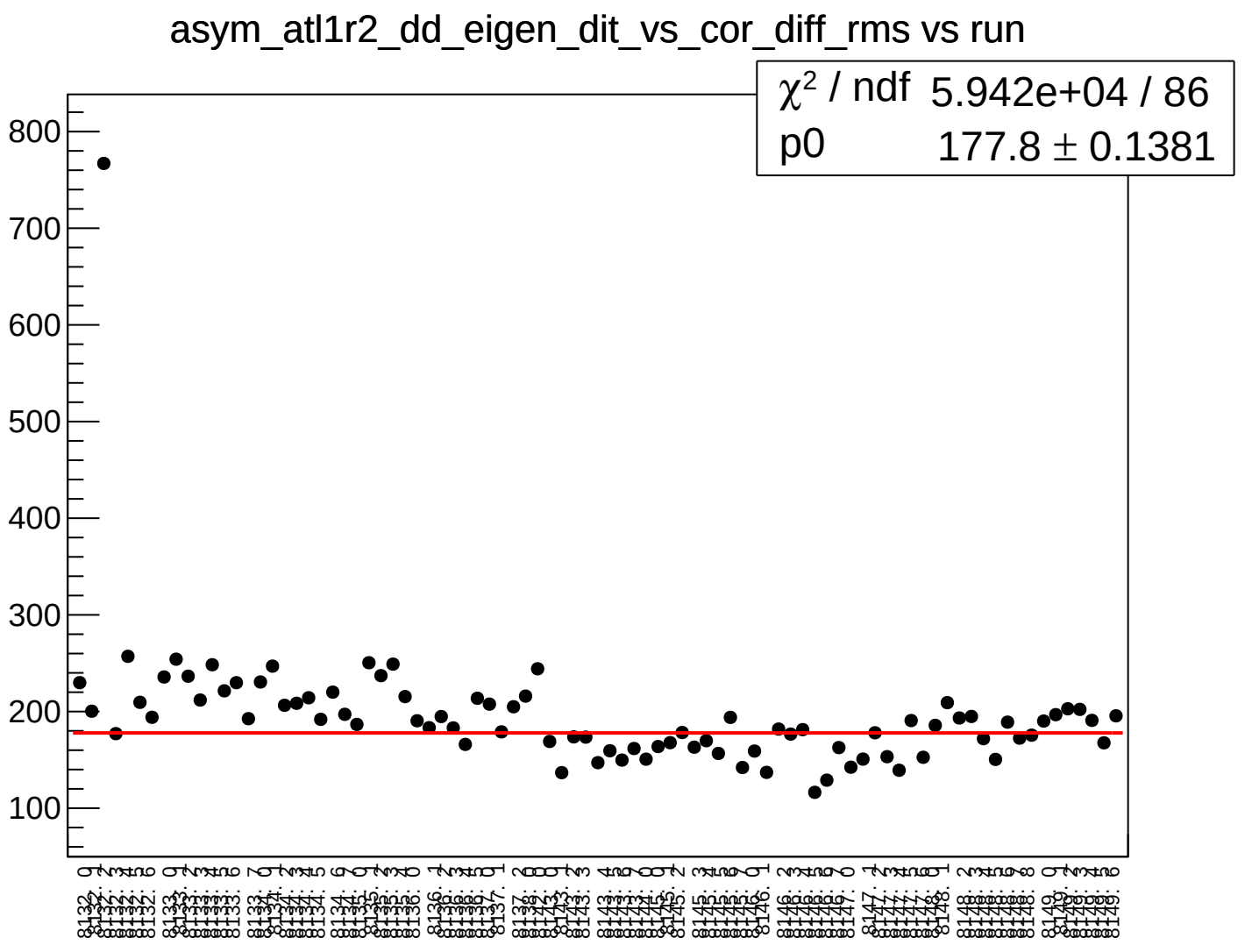

asym_atl1r2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.942e+04 / 86
p0 177.8 ± 0.1381
800
700
600
500
400
300
200
100

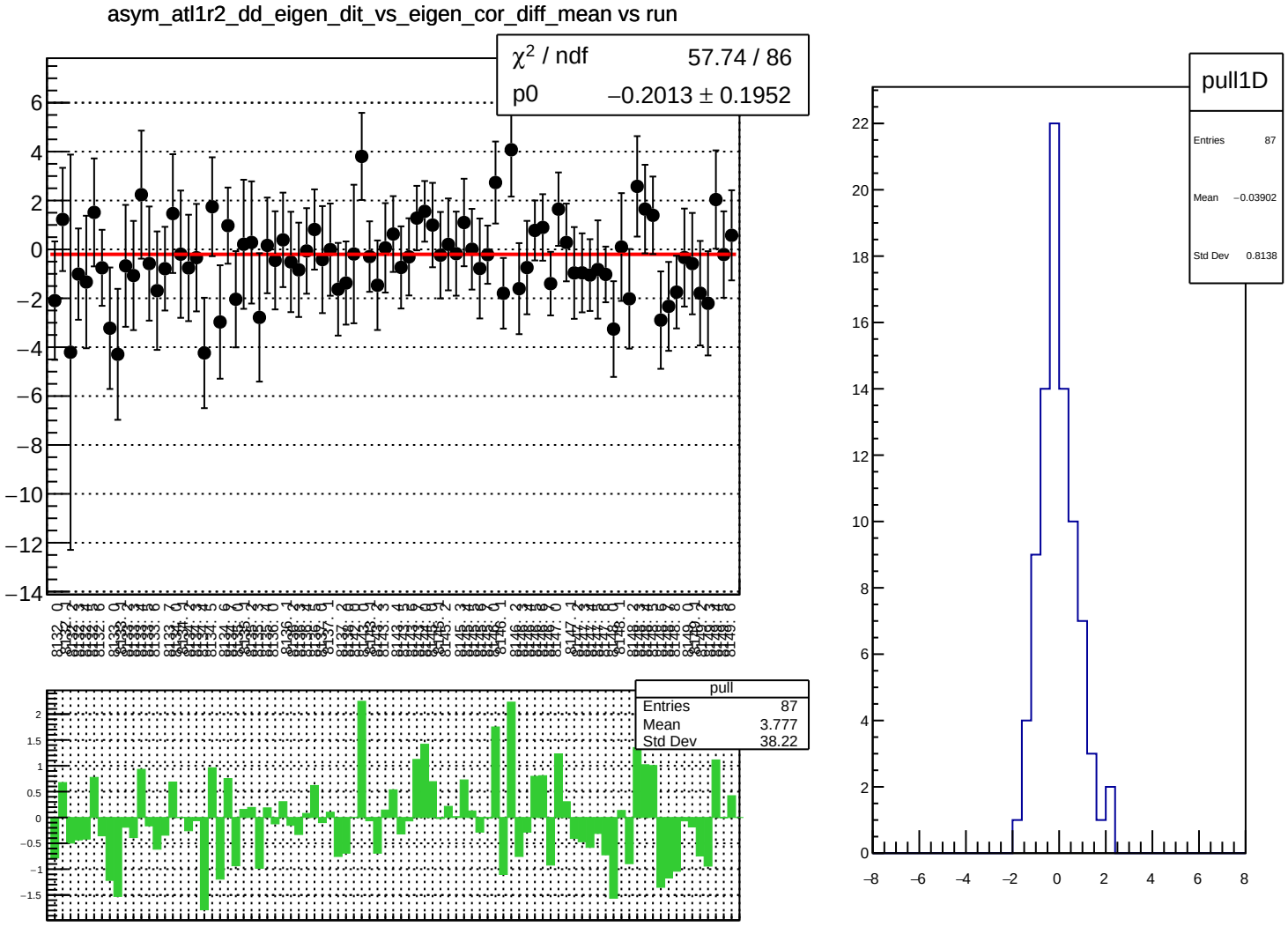

asym_atl1r2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.43 / 86
p0 −5.333e−06 ± 1.49e−05
pull
Entries 87
Mean −158.9
Std Dev 0

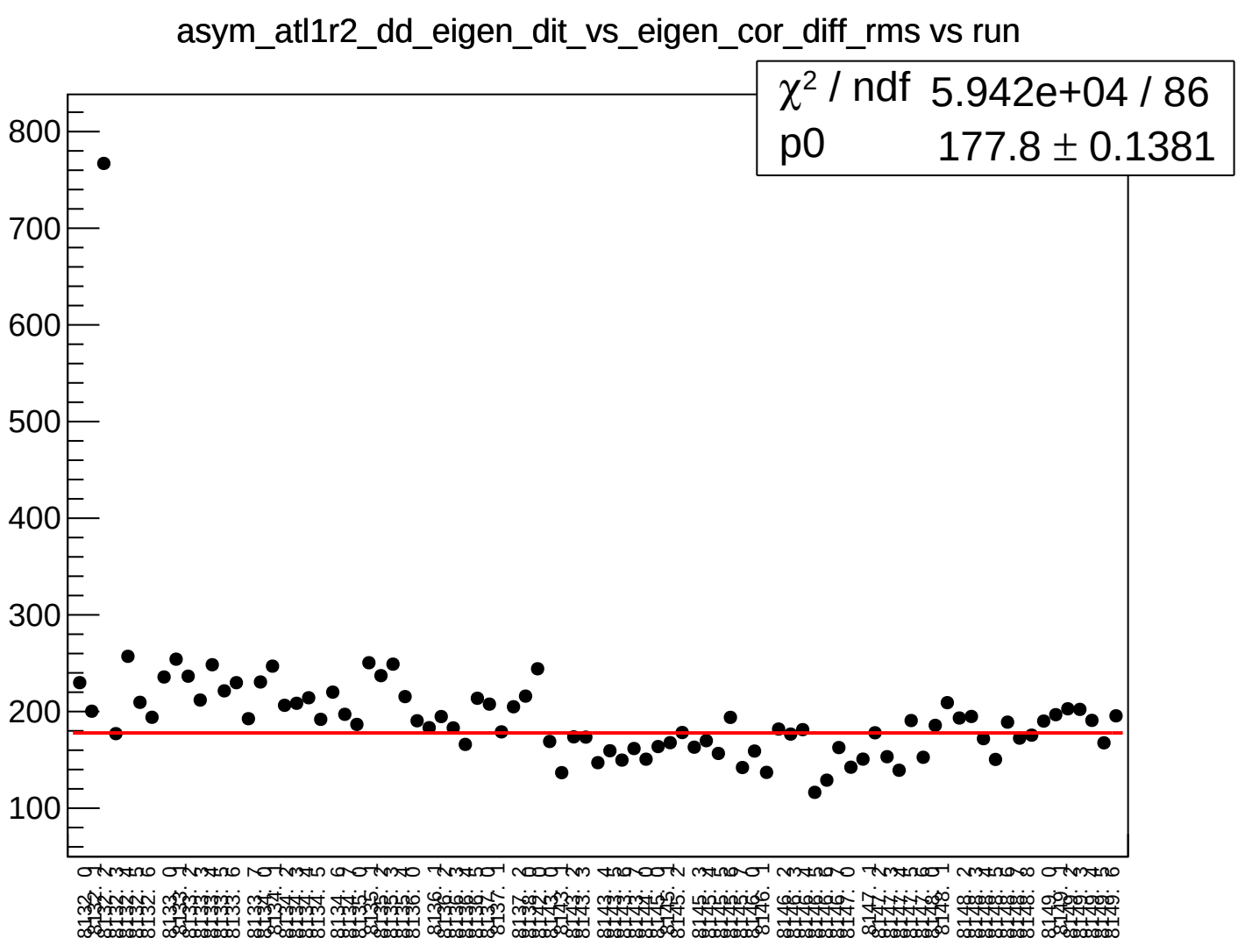

pull1D
Entries 87
Mean −0.02119
Std Dev 1.063

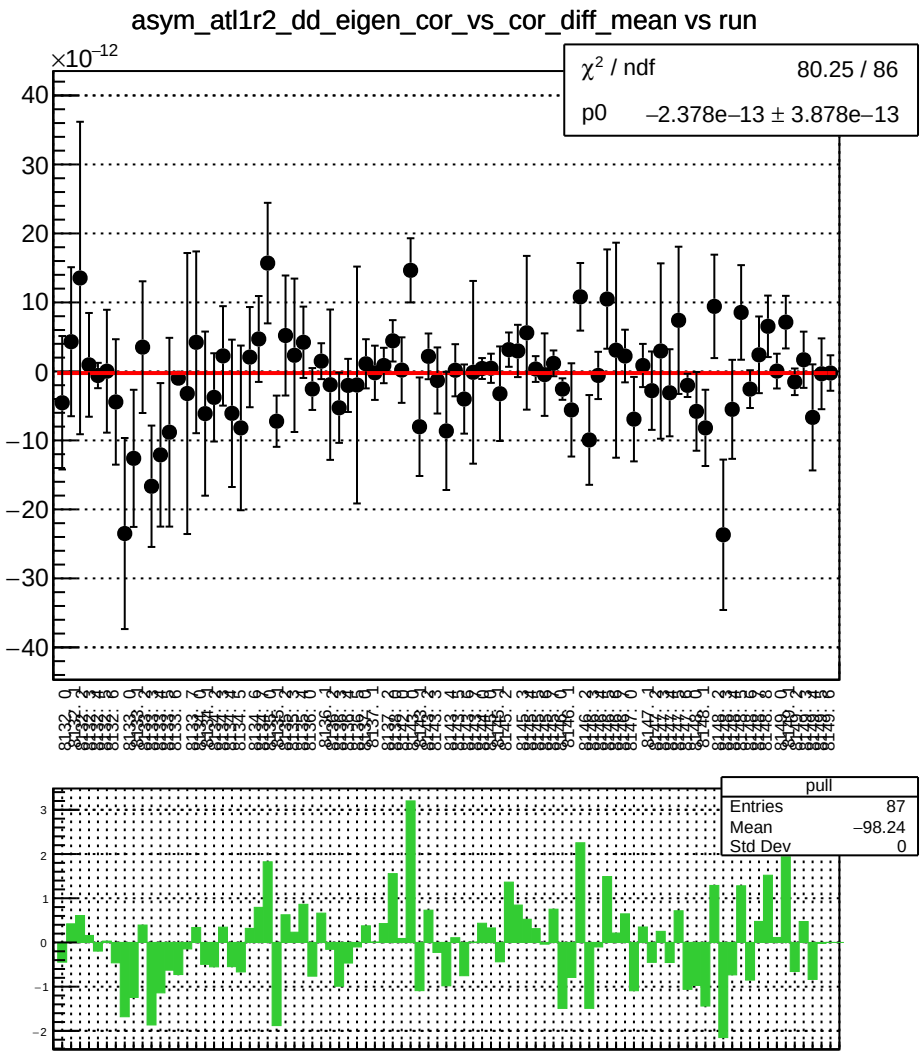

asym_atl1r2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.587e+04 / 86
p0 0.01375 ± 1.053e–05
0.024
0.022
0.02
0.018
0.016
0.014
0.012

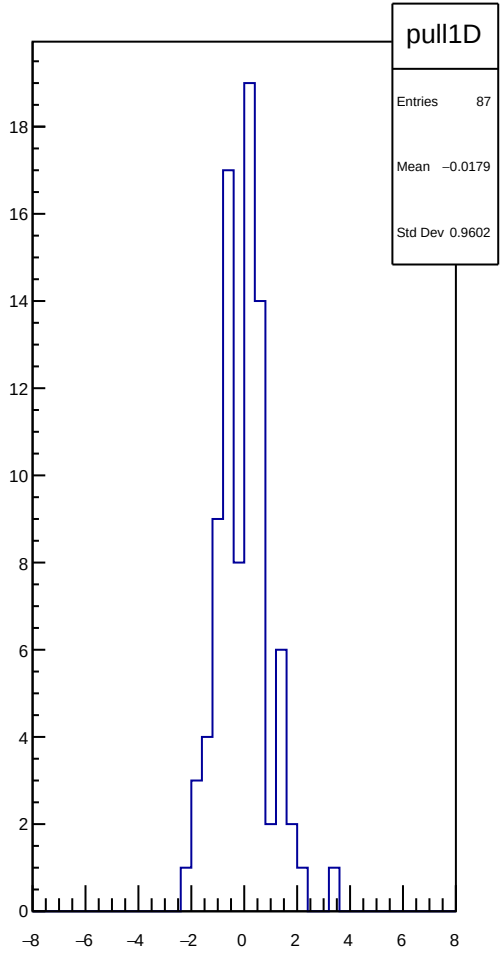

asym_atl1r2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 57.74 / 86
p0 −0.2013 ± 0.1952
pull
Entries 87
Mean 3.777
Std Dev 38.22
pull1D
Entries 87
Mean −0.03902
Std Dev 0.8138

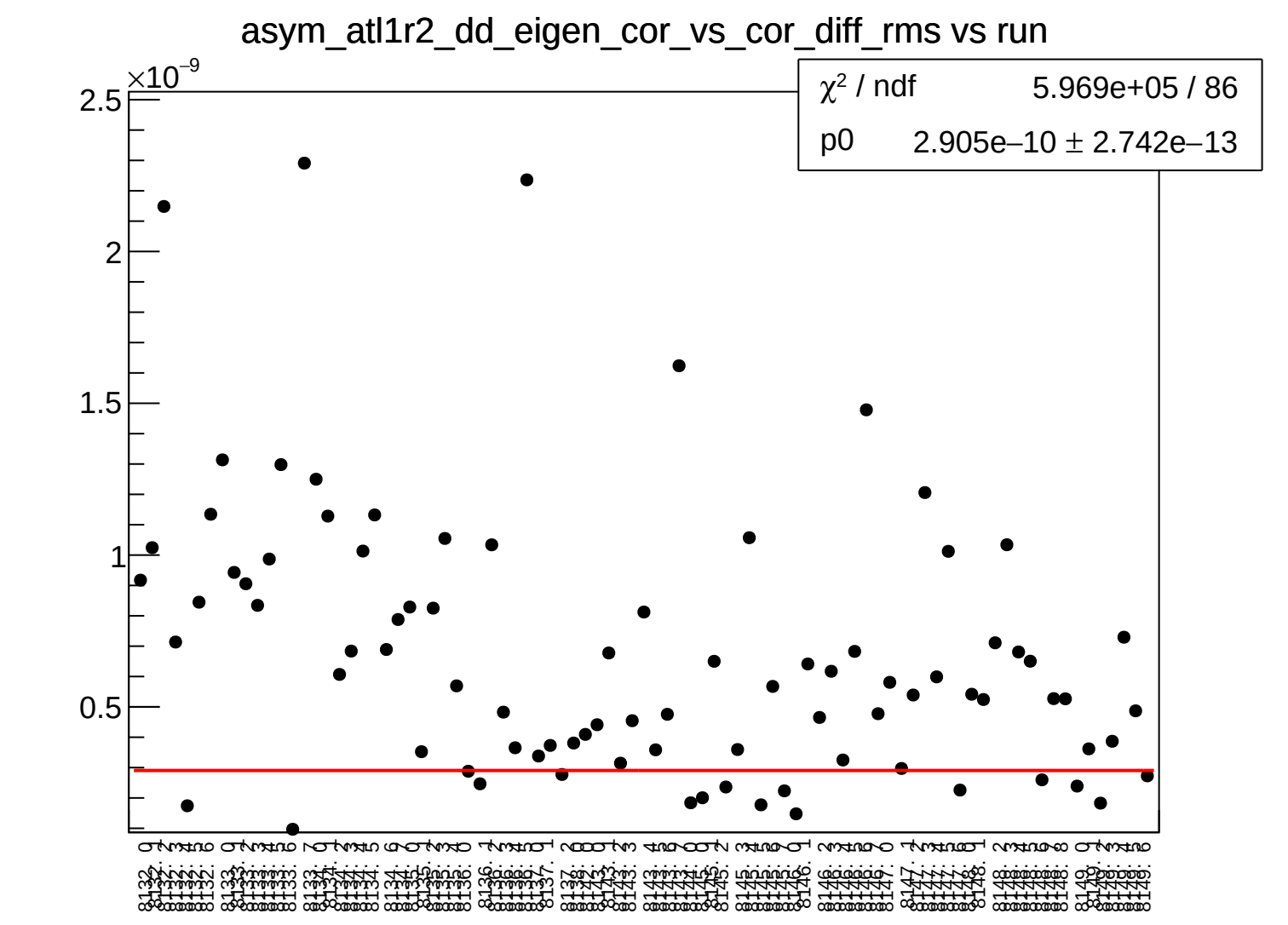

asym_atl1r2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.942e+04 / 86
p0 177.8 ± 0.1381
800
700
600
500
400
300
200
100

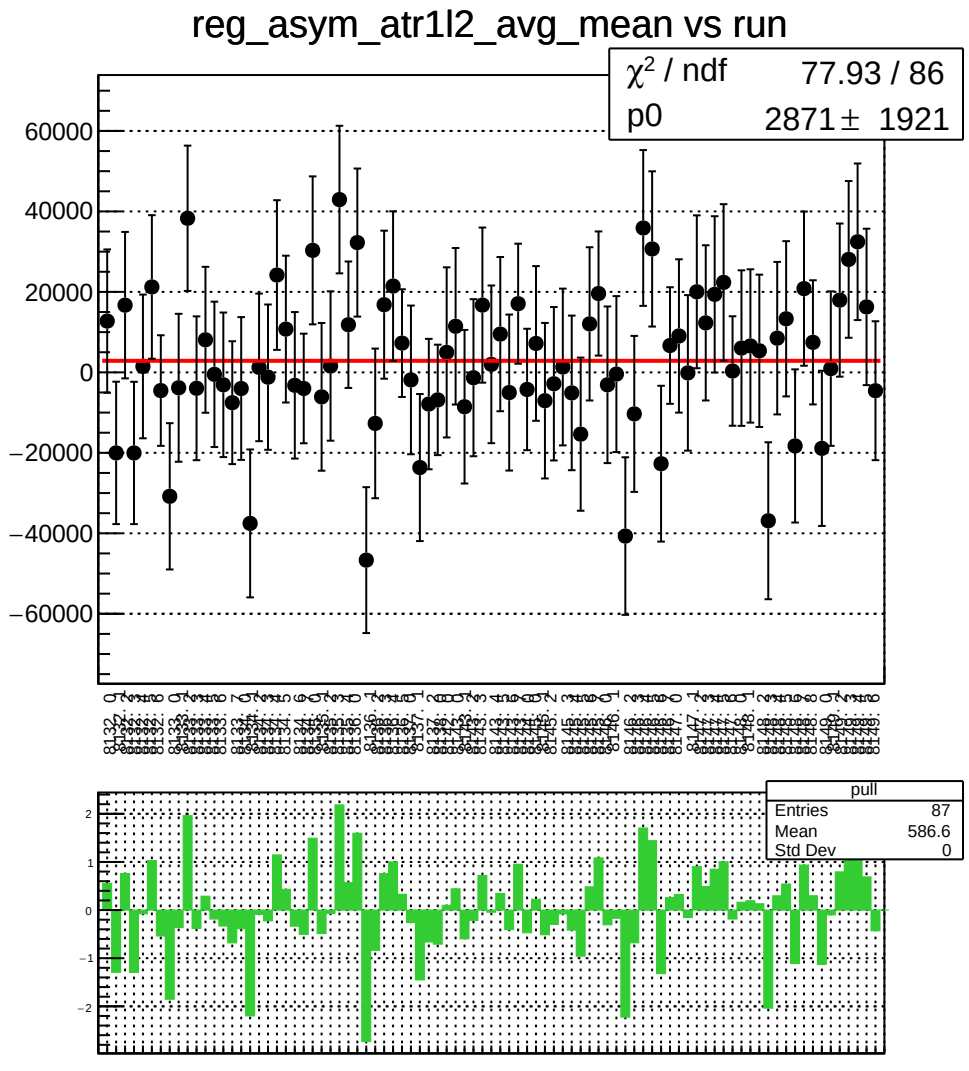

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 57.74 / 86
p0 −0.2013 ± 0.1952
pull
Entries 87
Mean 3.777
Std Dev 38.22
pull1D
Entries 87
Mean −0.03902
Std Dev 0.8138

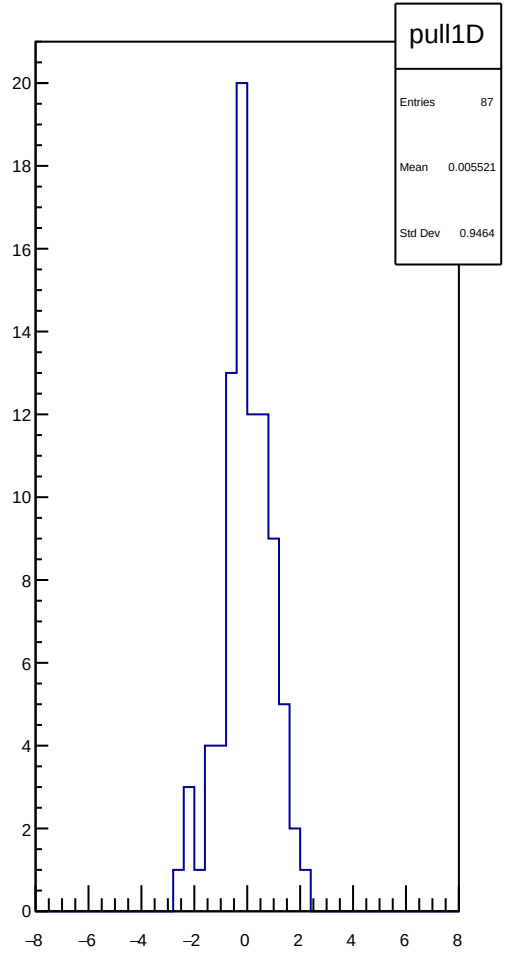

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.942e+04 / 86
p0 177.8 ± 0.1381
800
700
600
500
400
300
200
100

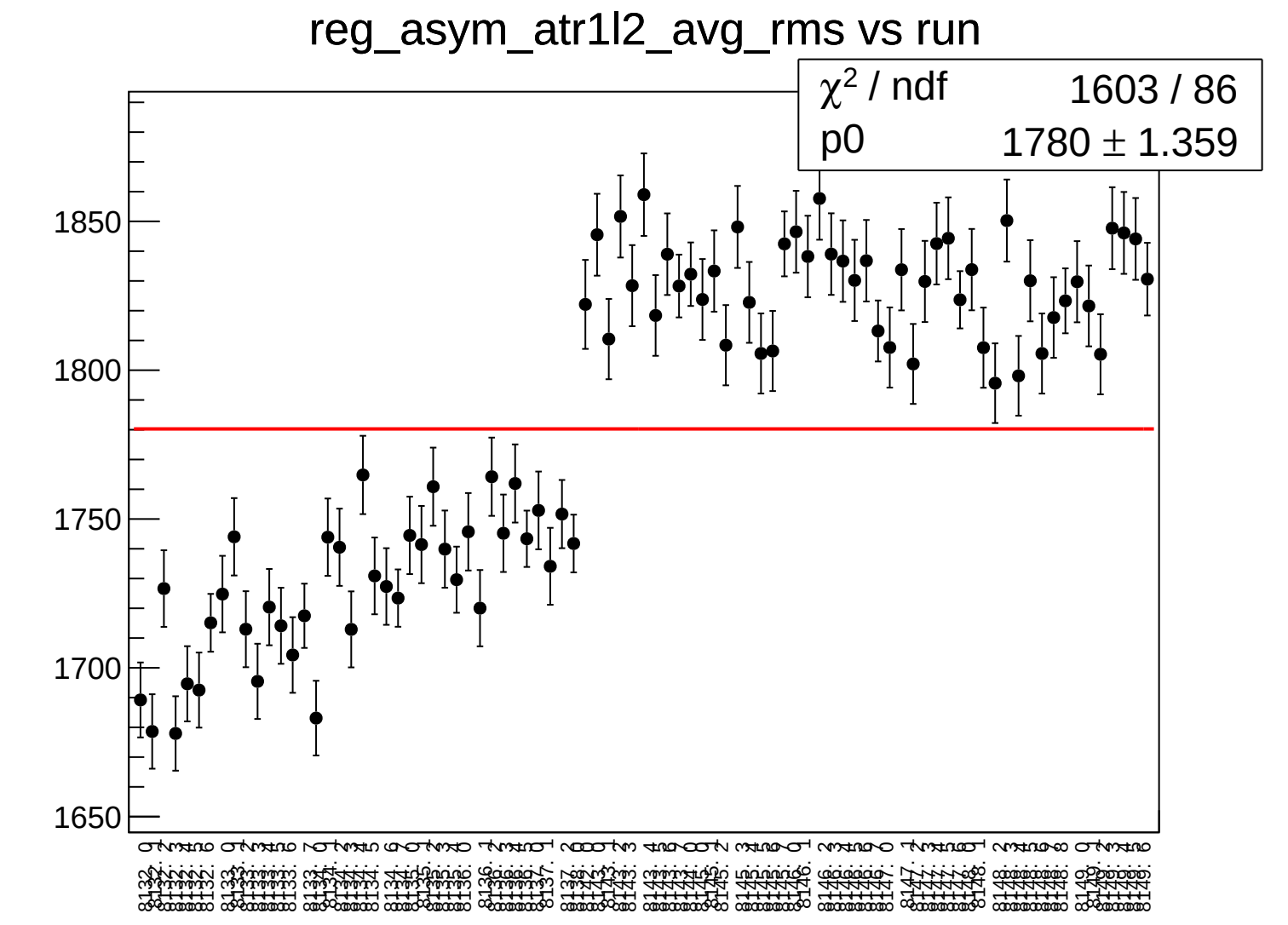

asym_atl1r2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.25 / 86
p0 −2.378e−13 ± 3.878e−13
pull
Entries 87
Mean −98.24
Std Dev 0

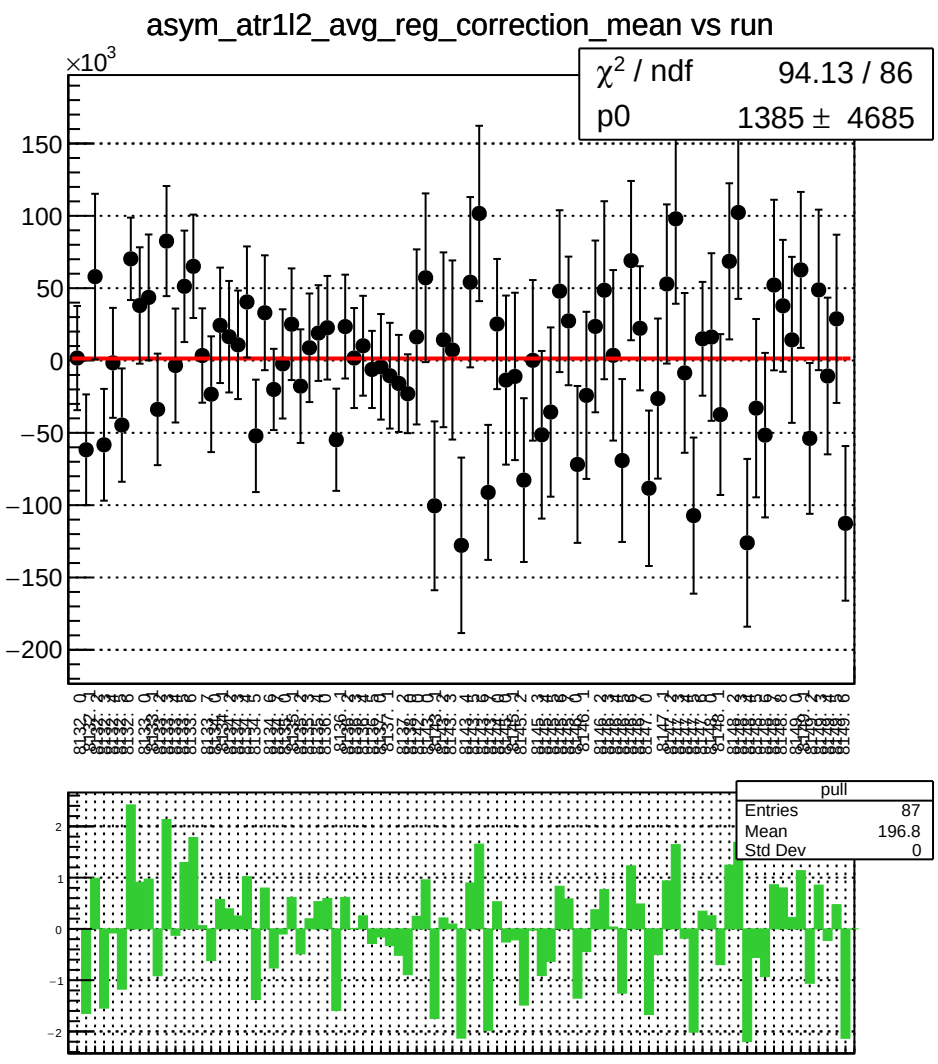

pull1D
Entries 87
Mean −0.0179
Std Dev 0.9602

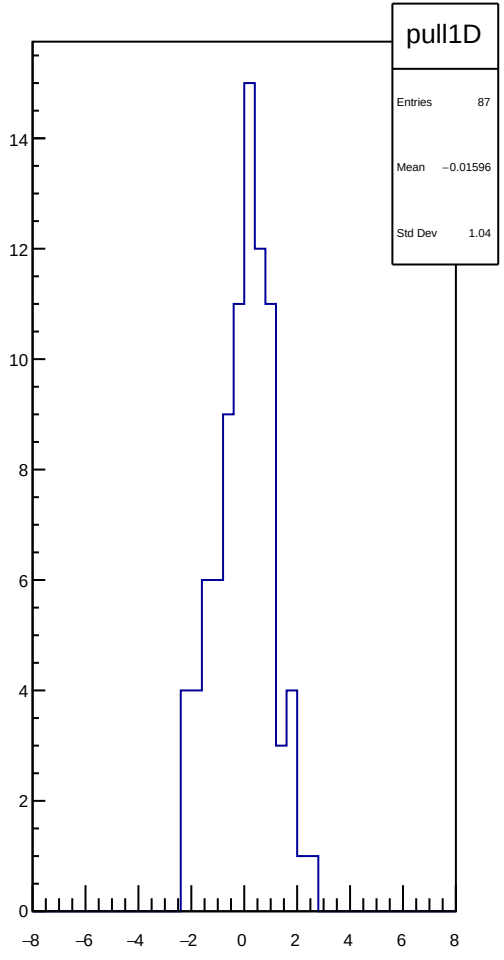

asym_atl1r2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
2.5
2
1.5
1
0.5
χ² / ndf 5.969e+05 / 86
p0 2.905e−10 ± 2.742e−13

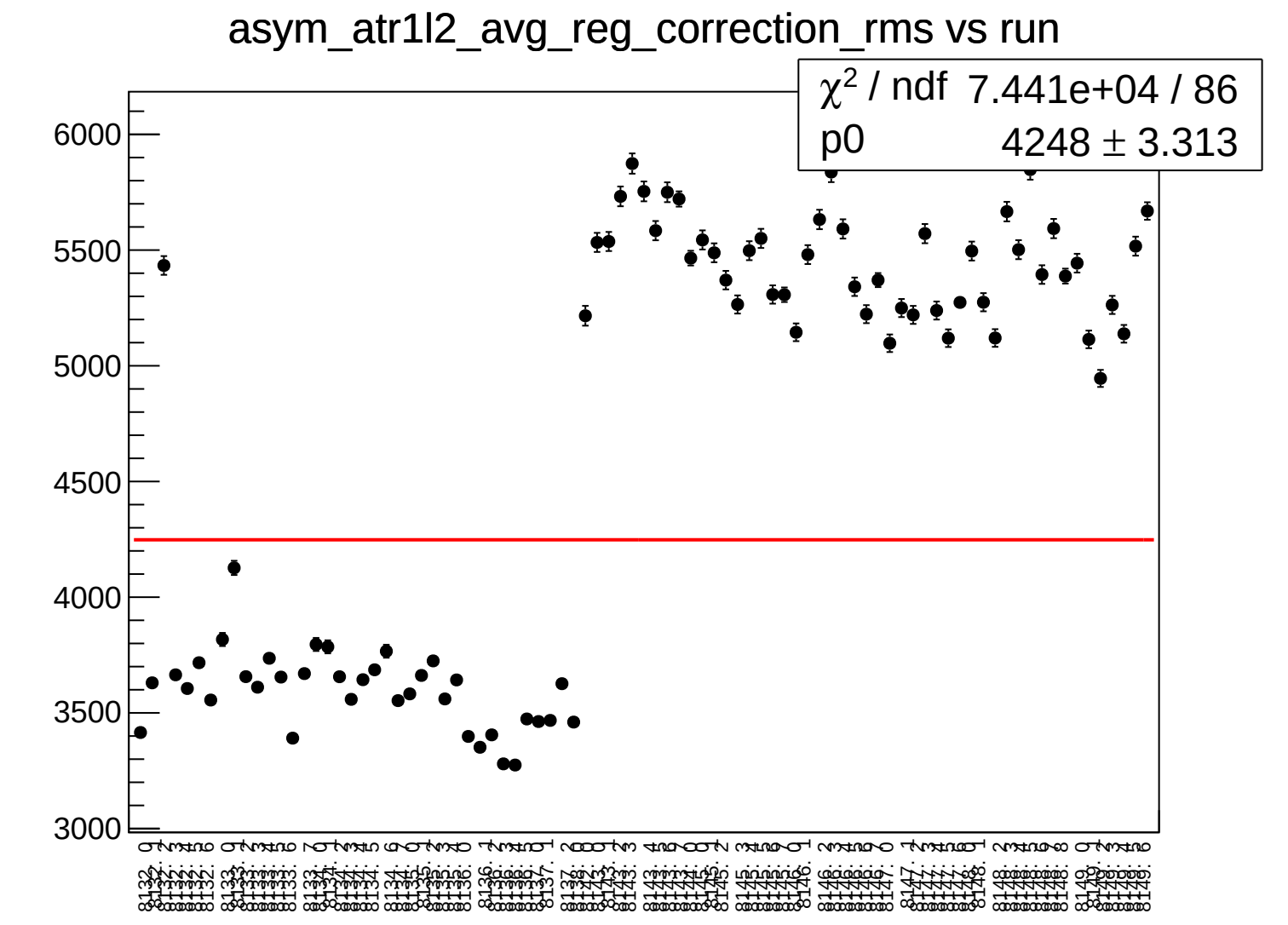

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 77.93 / 86
p0 2871 ± 1921
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 586.6
Std Dev 0
2
1
0
−1
−2

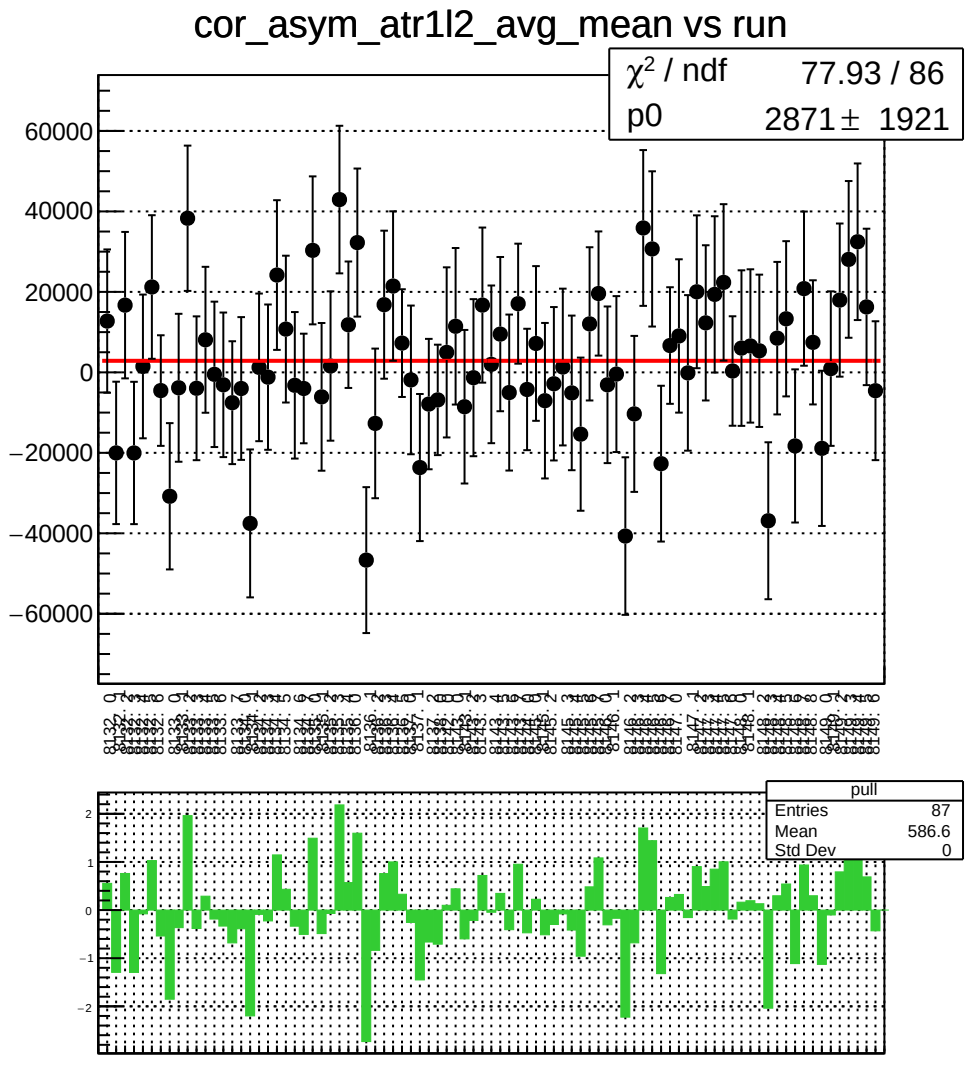

pull1D
Entries 87
Mean 0.005521
Std Dev 0.9464
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

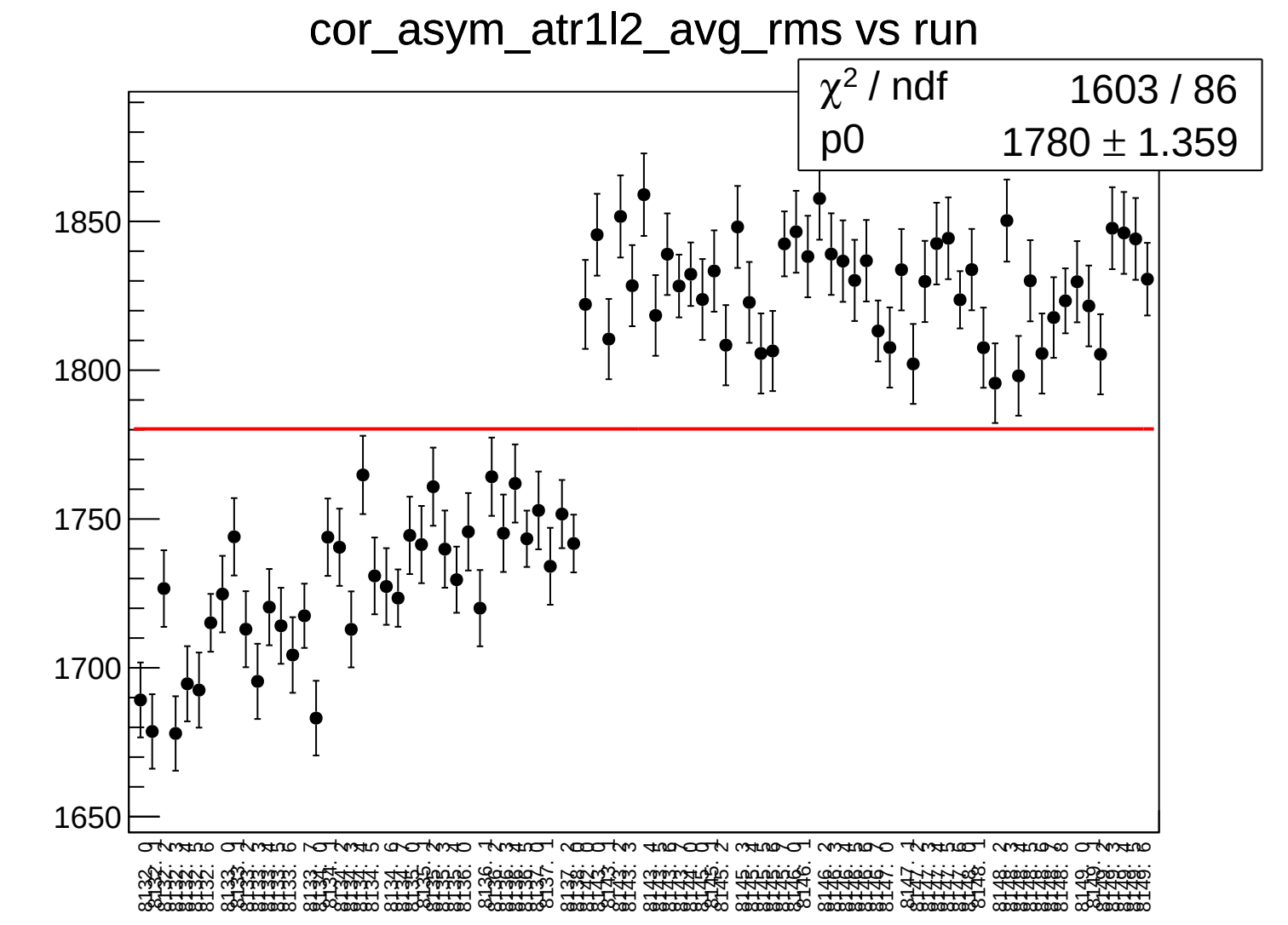

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 1603 / 86
p0 1780 ± 1.359
1850
1800
1750
1700
1650

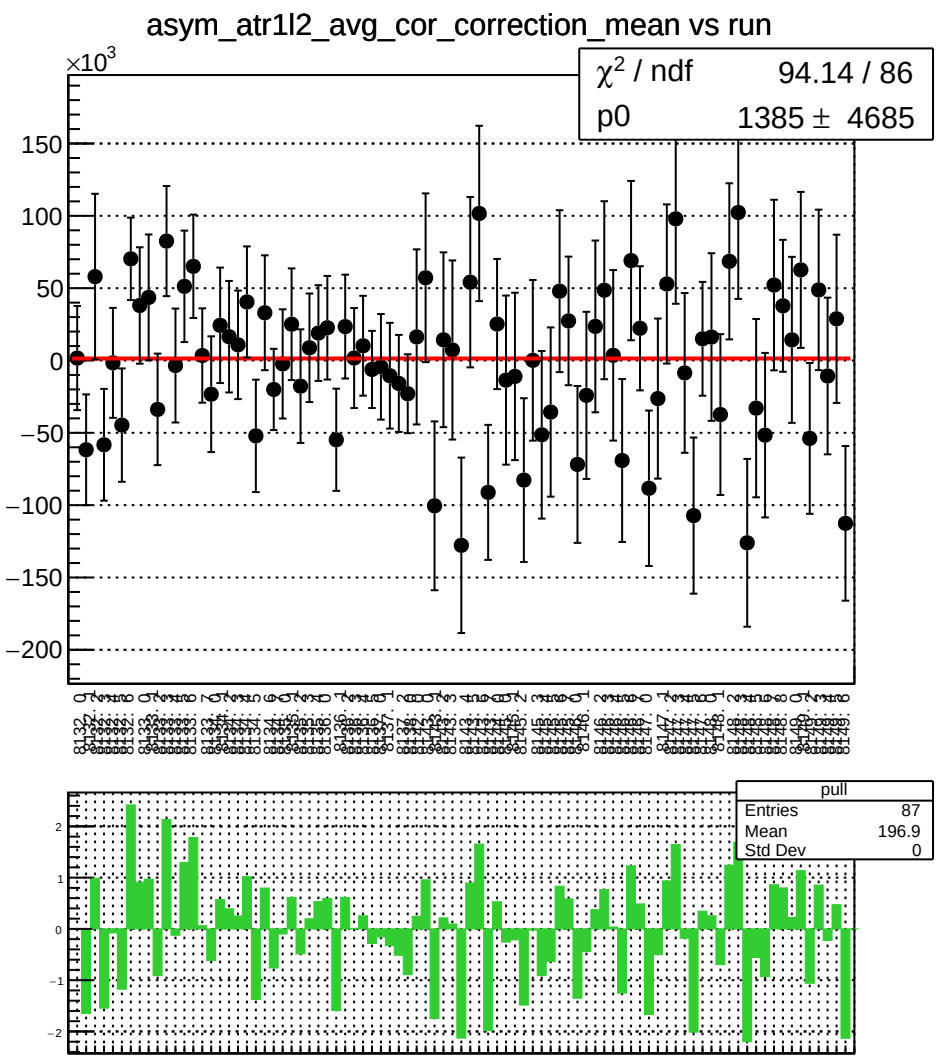

asym_atr1l2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 94.13 / 86
p0 1385 ± 4685
150
100
50
0
−50
−100
−150
−200
pull
Entries 87
Mean 196.8
Std Dev 0
2
1
0
−1
−2

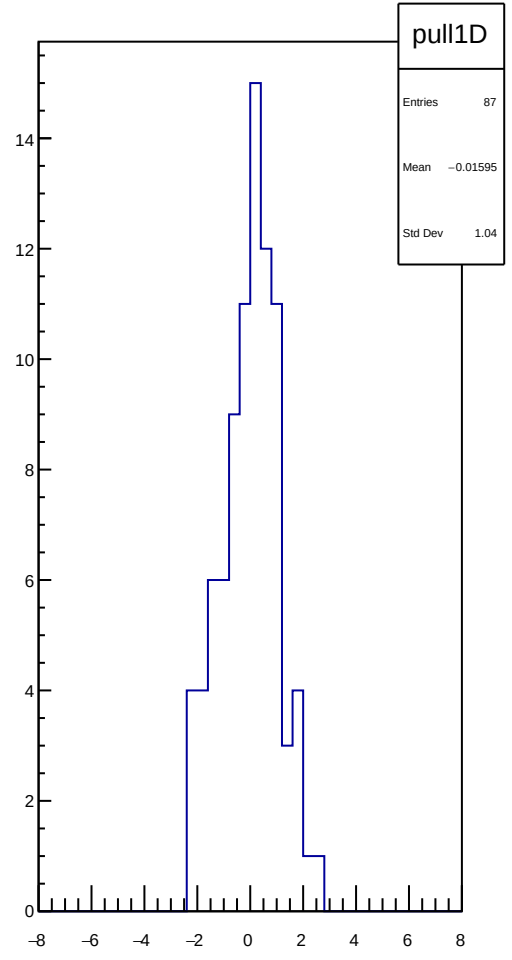

pull1D
Entries 87
Mean −0.01596
Std Dev 1.04
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

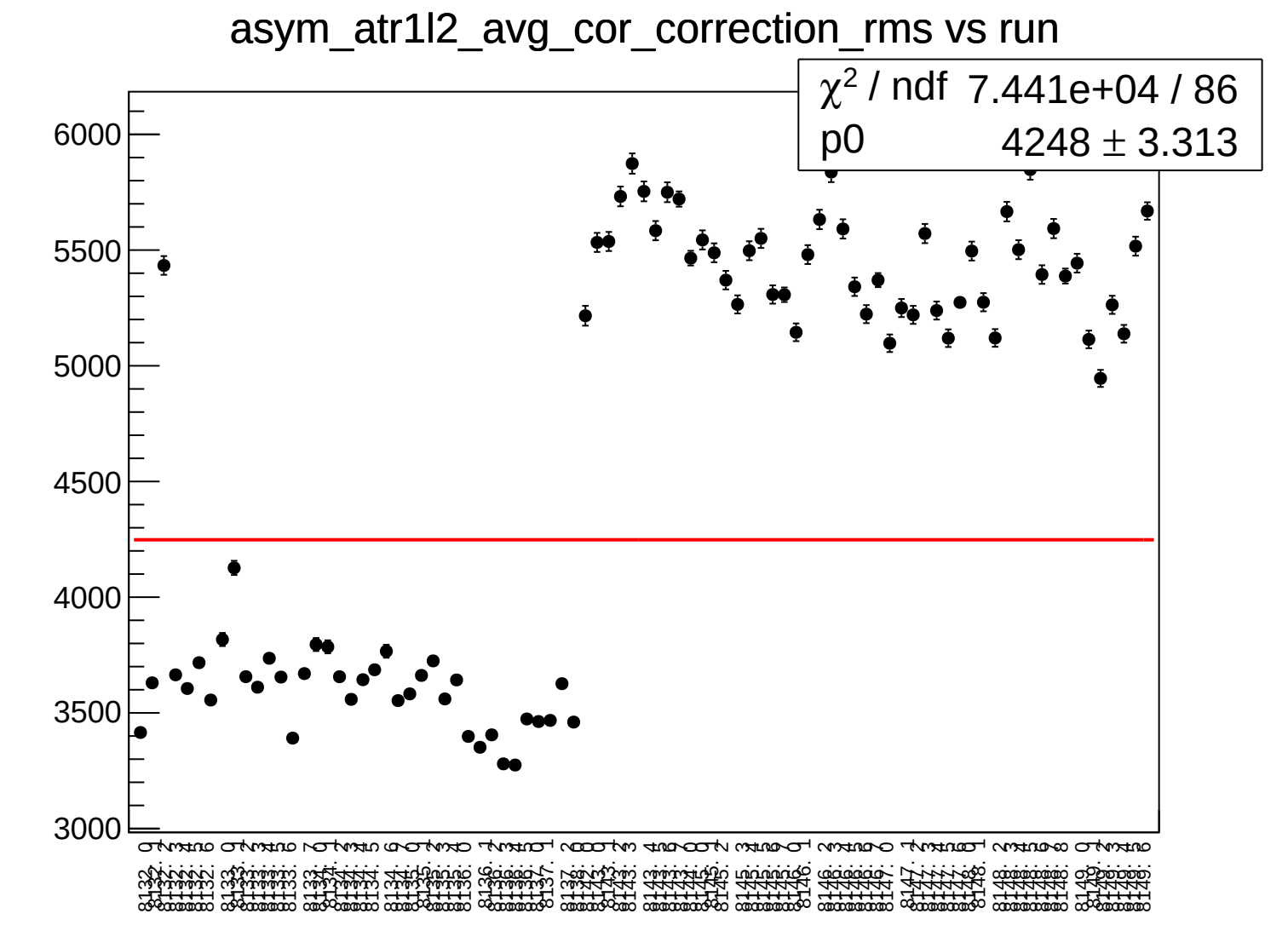

asym_atr1l2_avg_reg_correction_rms vs run
χ² / ndf 7.441e+04 / 86
p0 4248 ± 3.313
6000
5500
5000
4500
4000
3500
3000

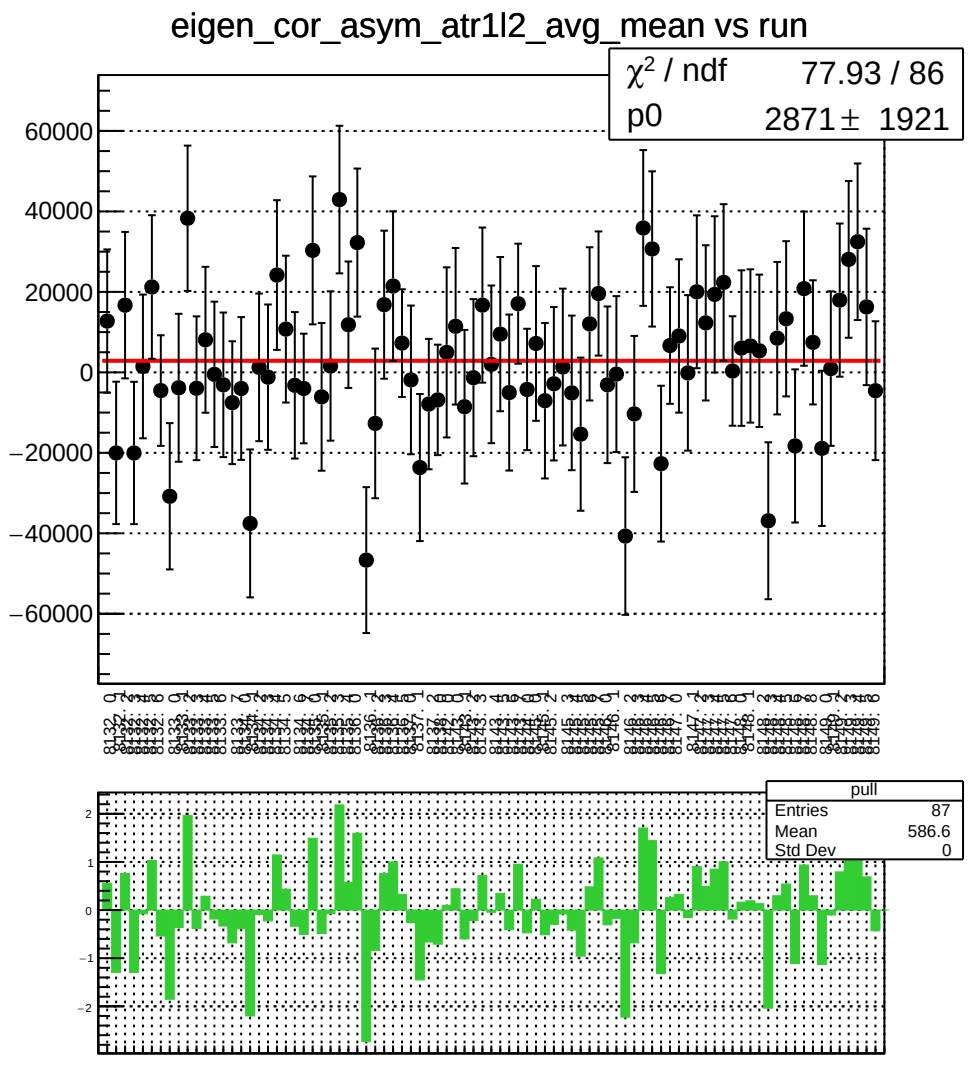

cor_asym_atr1l2_avg_mean vs run
χ² / ndf 77.93 / 86
p0 2871 ± 1921
pull
Entries 87
Mean 586.6
Std Dev 0
pull1D
Entries 87
Mean 0.005522
Std Dev 0.9464

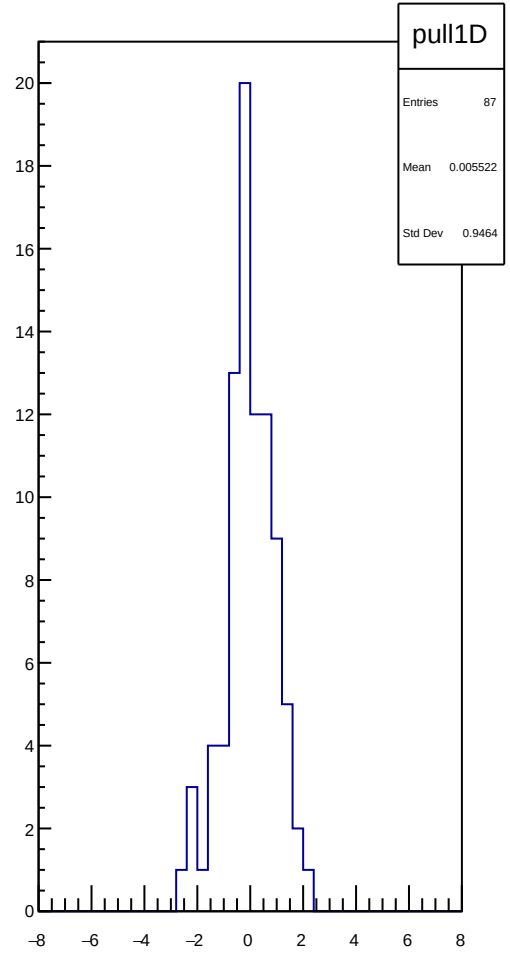

cor_asym_atr1l2_avg_rms vs run
χ² / ndf 1603 / 86
p0 1780 ± 1.359
1850
1800
1750
1700
1650

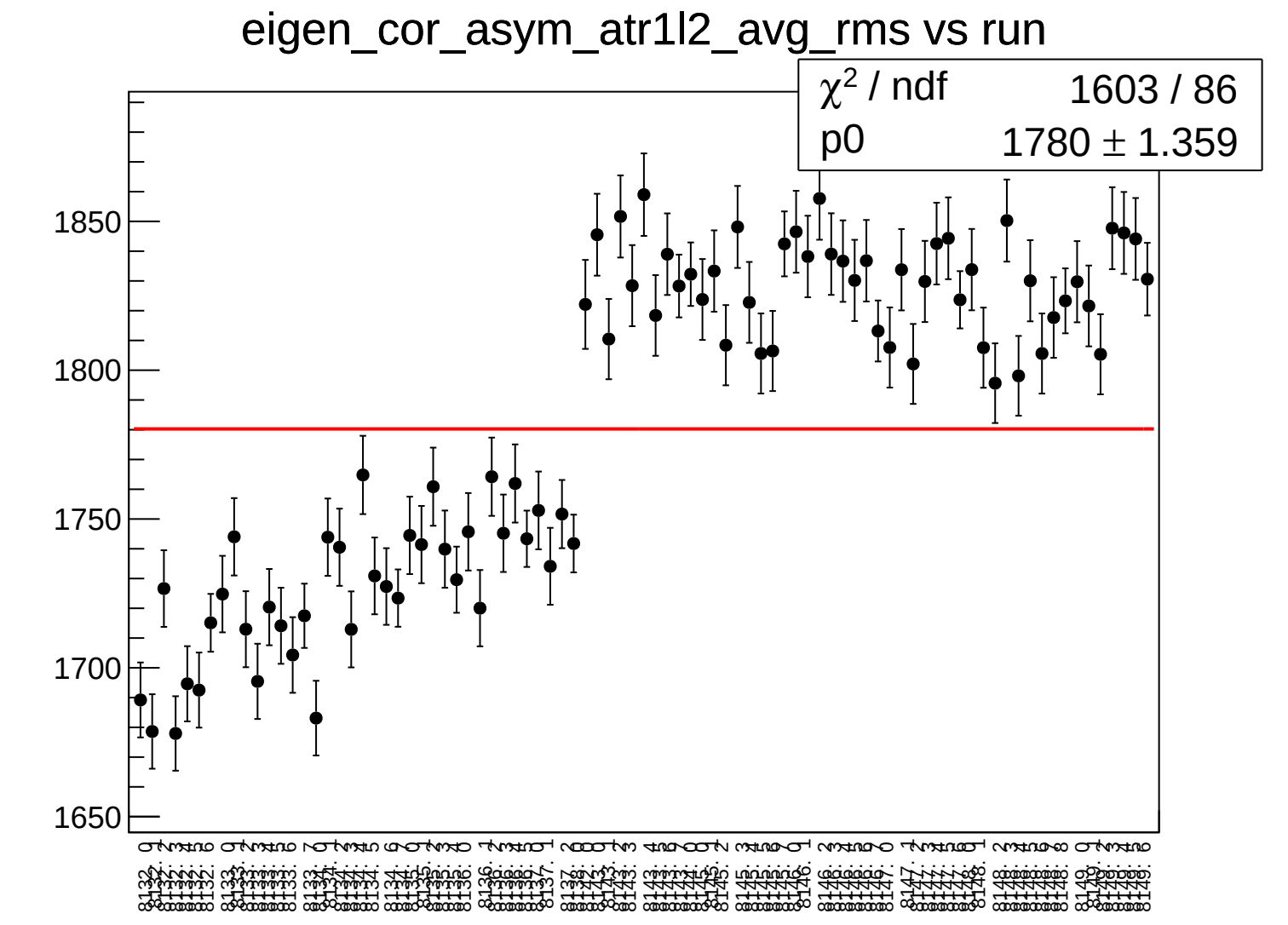

asym_atr1l2_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 94.14 / 86
p0 1385 ± 4685
150
100
50
0
−50
−100
−150
−200
pull
Entries 87
Mean 196.9
Std Dev 0
2
1
0
−1
−2

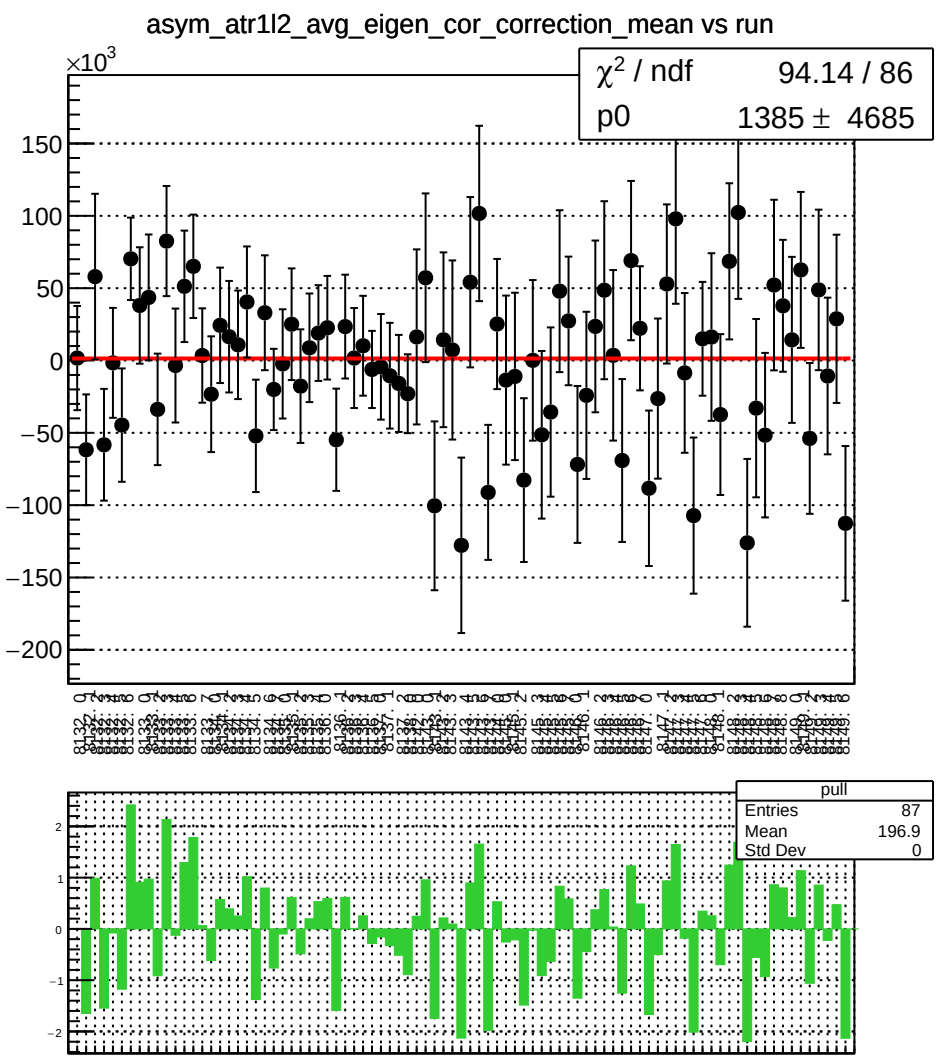

pull1D
Entries 87
Mean −0.01595
Std Dev 1.04
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

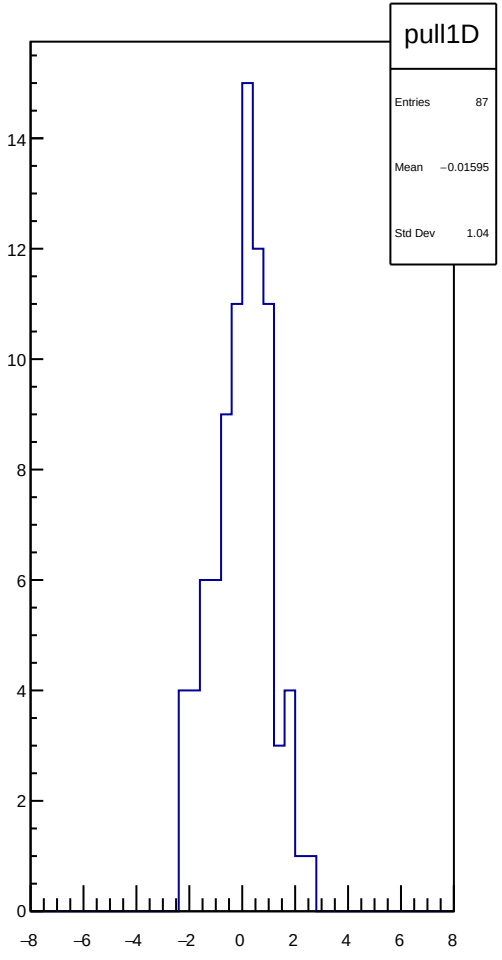

asym_atr1l2_avg_cor_correction_rms vs run
χ² / ndf 7.441e+04 / 86
p0 4248 ± 3.313
6000
5500
5000
4500
4000
3500
3000

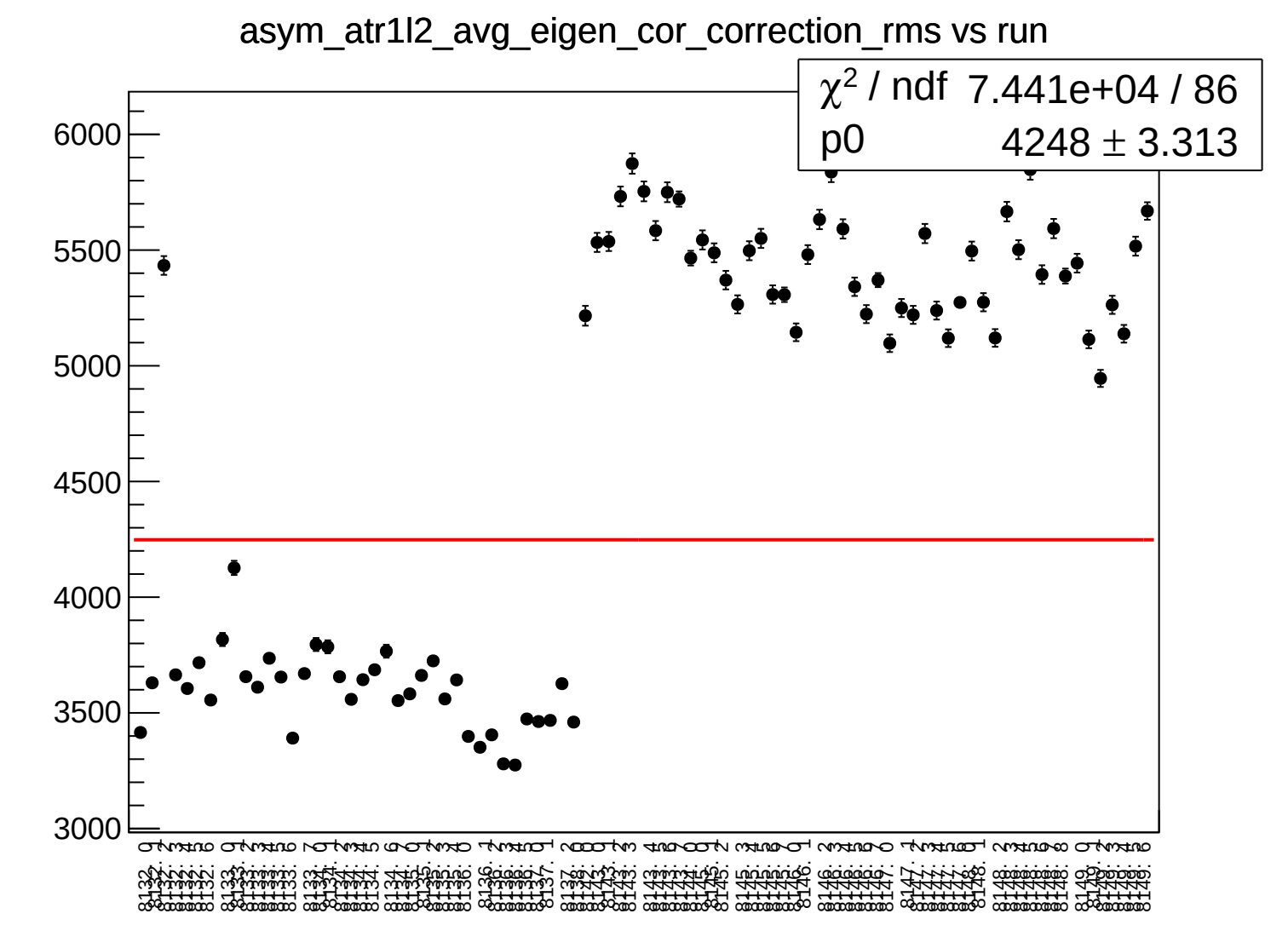

eigen_cor_asym_atr1l2_avg_mean vs run
χ² / ndf 77.93 / 86
p0 2871 ± 1921
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 586.6
Std Dev 0
2
1
0
−1
−2

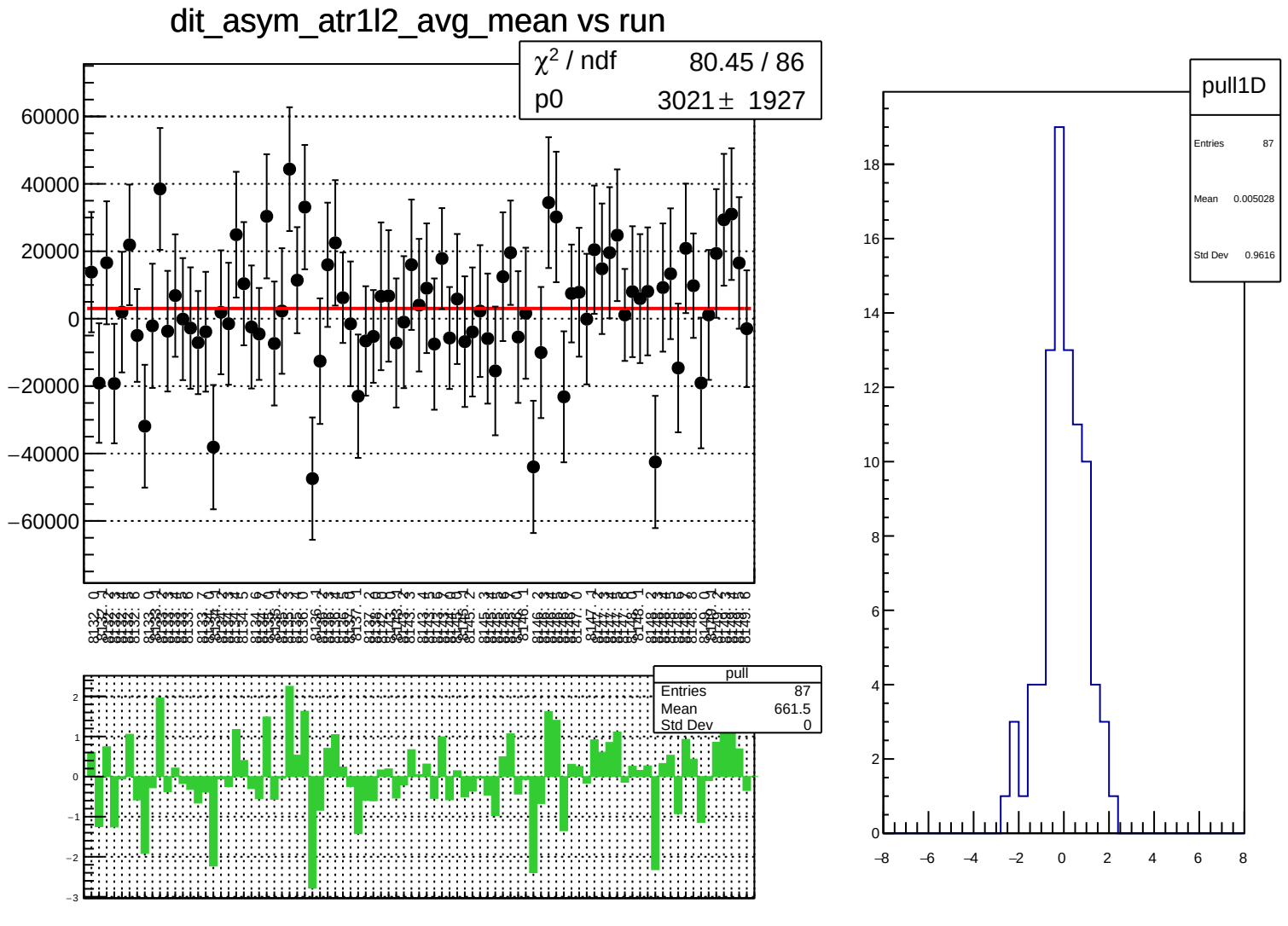

pull1D
Entries 87
Mean 0.005522
Std Dev 0.9464
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

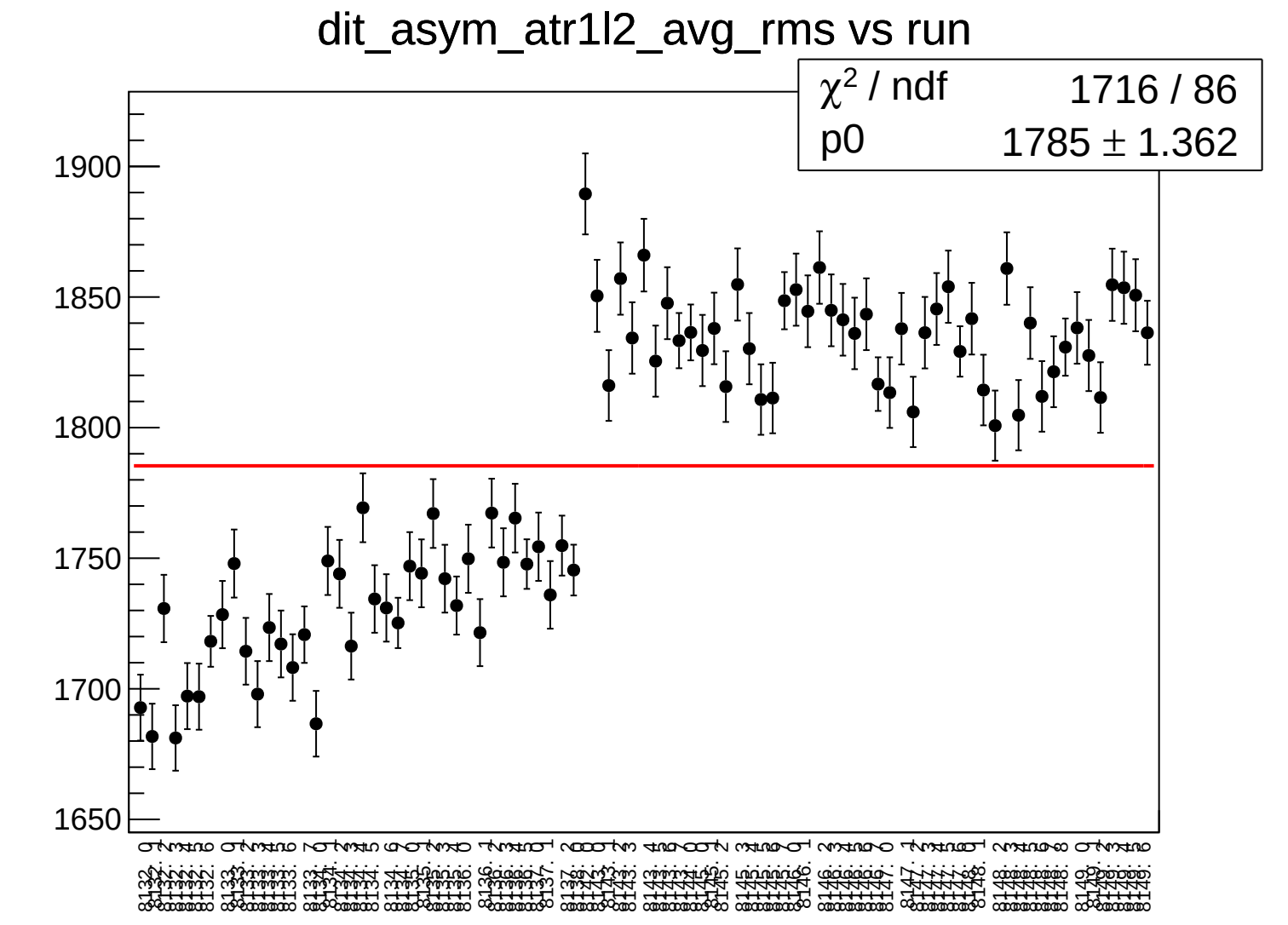

eigen_cor_asym_atr1l2_avg_rms vs run
χ² / ndf 1603 / 86
p0 1780 ± 1.359
1850
1800
1750
1700
1650

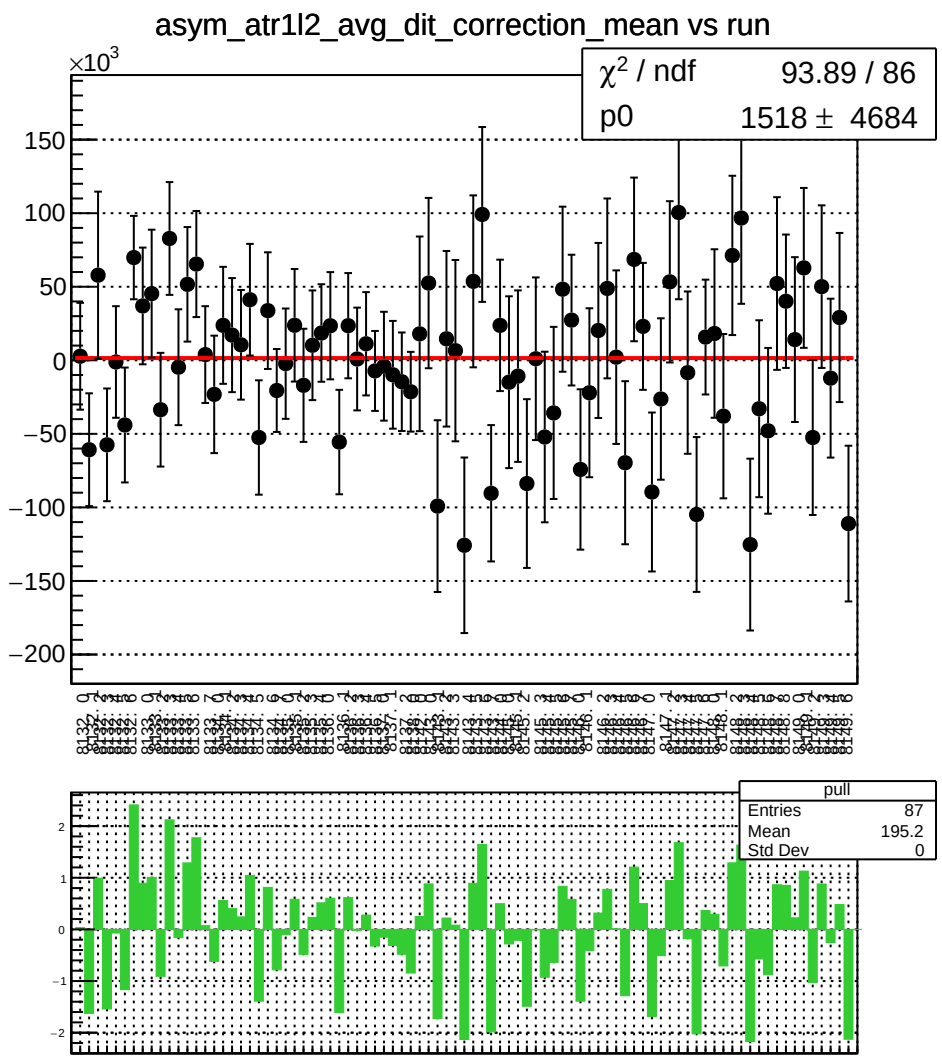

asym_atr1l2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 94.14 / 86
p0 1385 ± 4685
150
100
50
0
−50
−100
−150
−200
pull
Entries 87
Mean 196.9
Std Dev 0
2
1
0
−1
−2

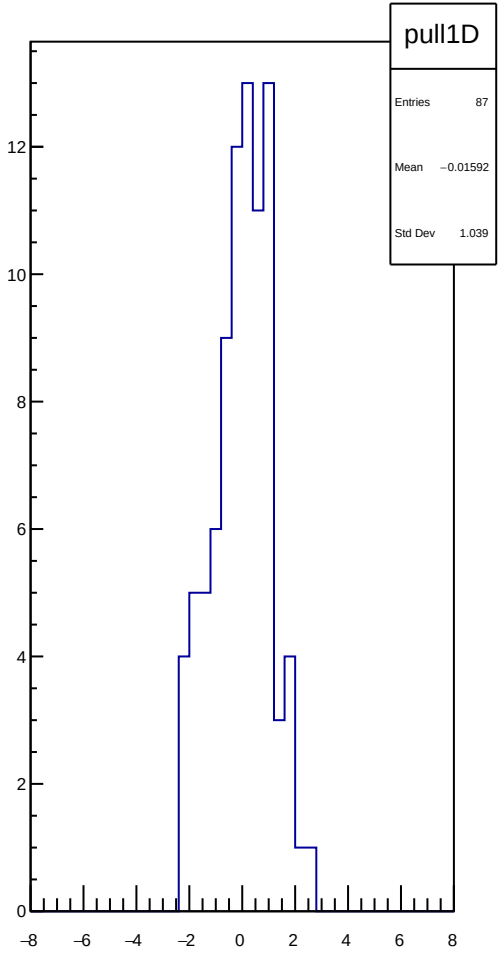

pull1D
Entries 87
Mean −0.01595
Std Dev 1.04
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

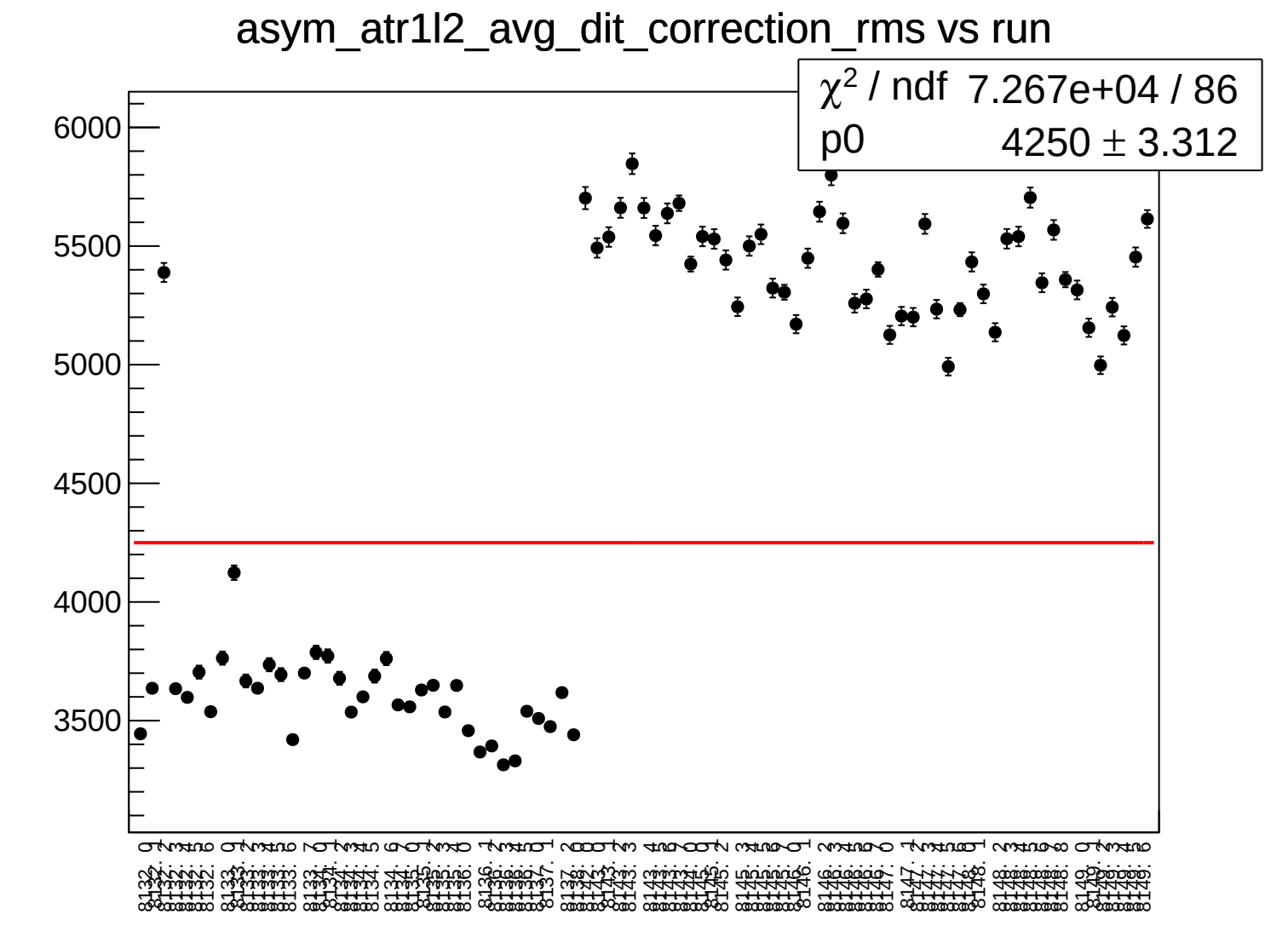

asym_atr1l2_avg_eigen_cor_correction_rms vs run
χ² / ndf 7.441e+04 / 86
p0 4248 ± 3.313
6000
5500
5000
4500
4000
3500
3000

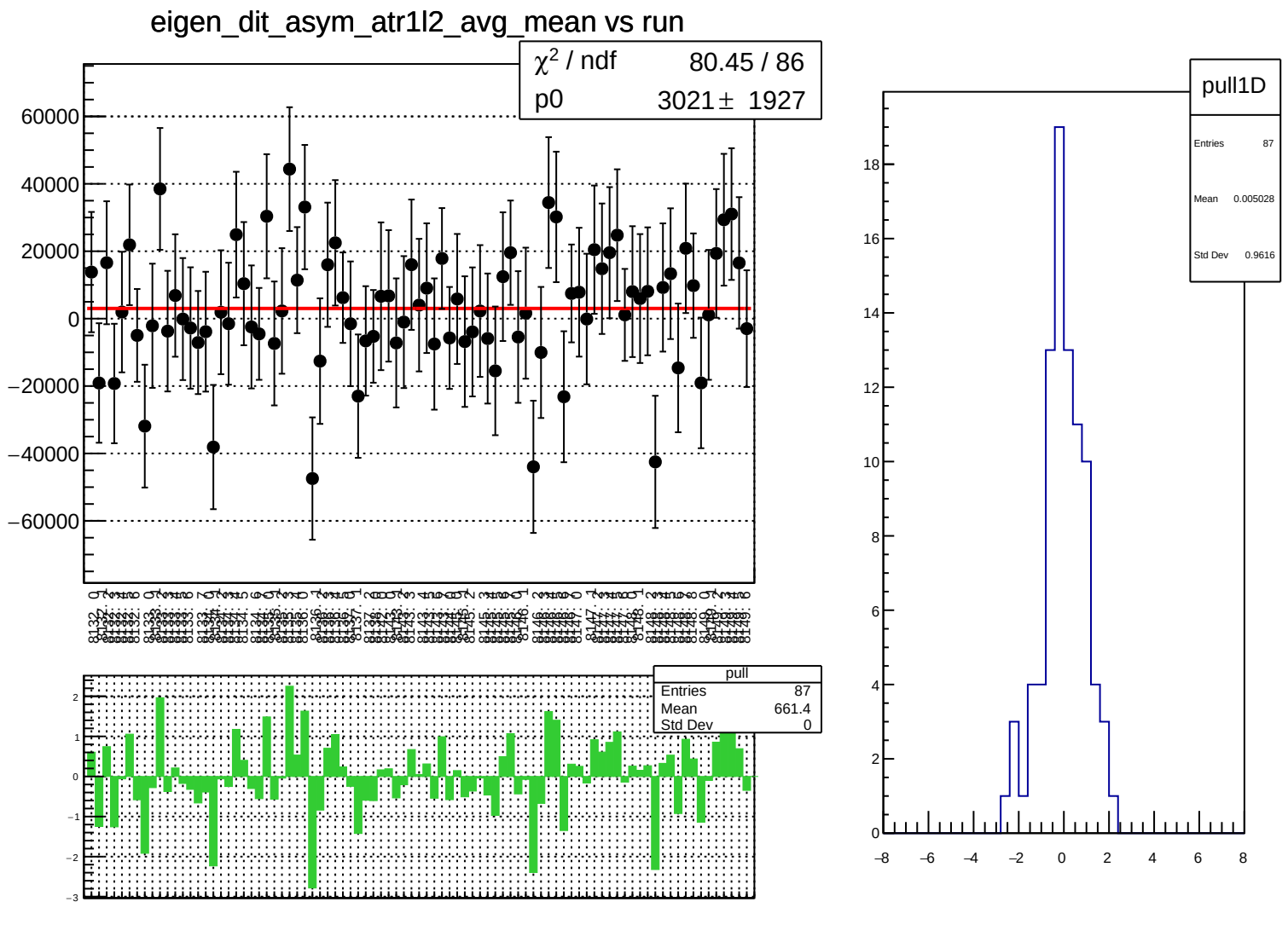

dit_asym_atr1l2_avg_mean vs run
χ² / ndf 80.45 / 86
p0 3021 ± 1927
pull
Entries 87
Mean 661.5
Std Dev 0
pull1D
Entries 87
Mean 0.005028
Std Dev 0.9616

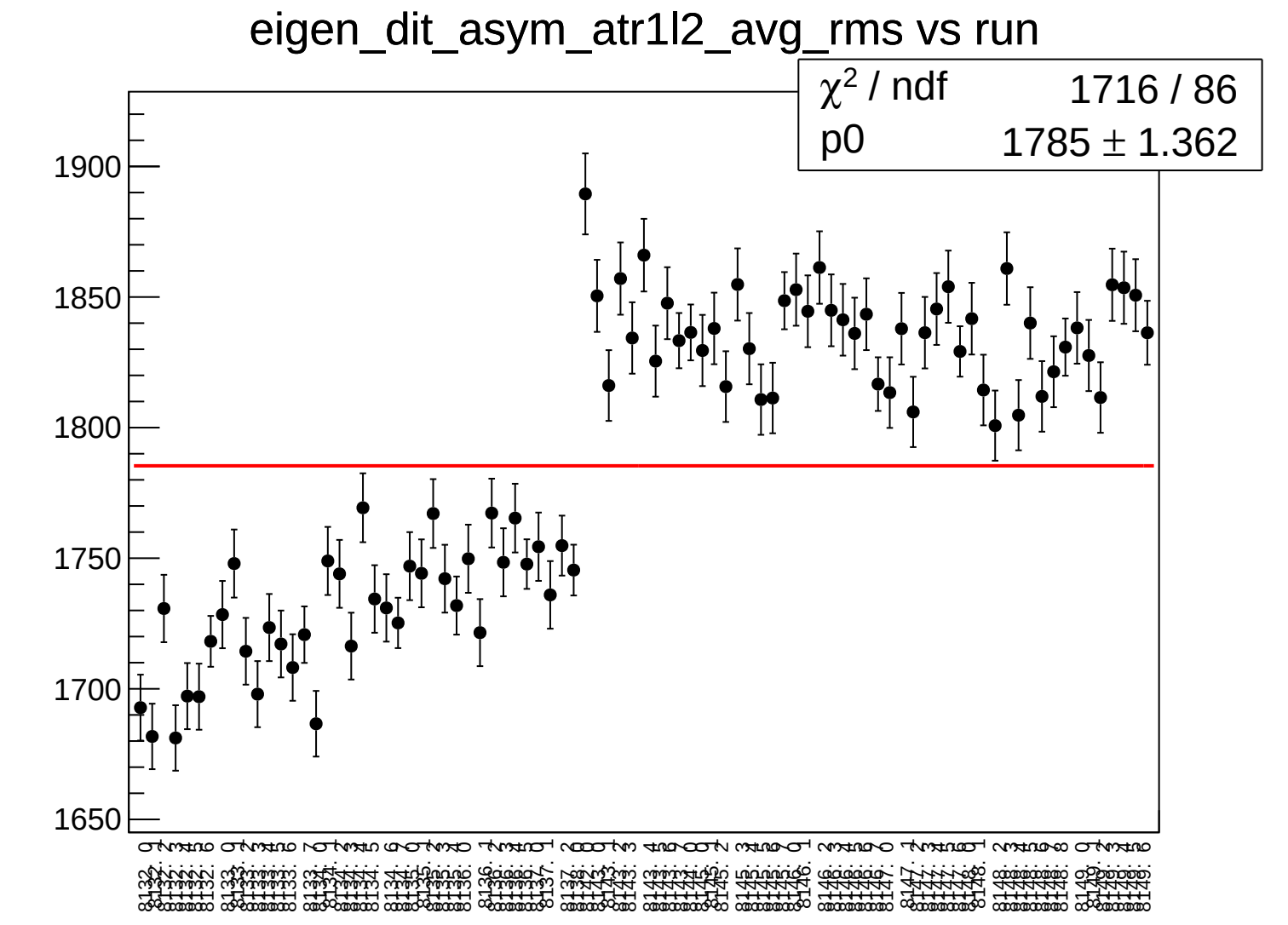

dit_asym_atr1l2_avg_rms vs run
χ² / ndf 1716 / 86
p0 1785 ± 1.362
1900
1850
1800
1750
1700
1650

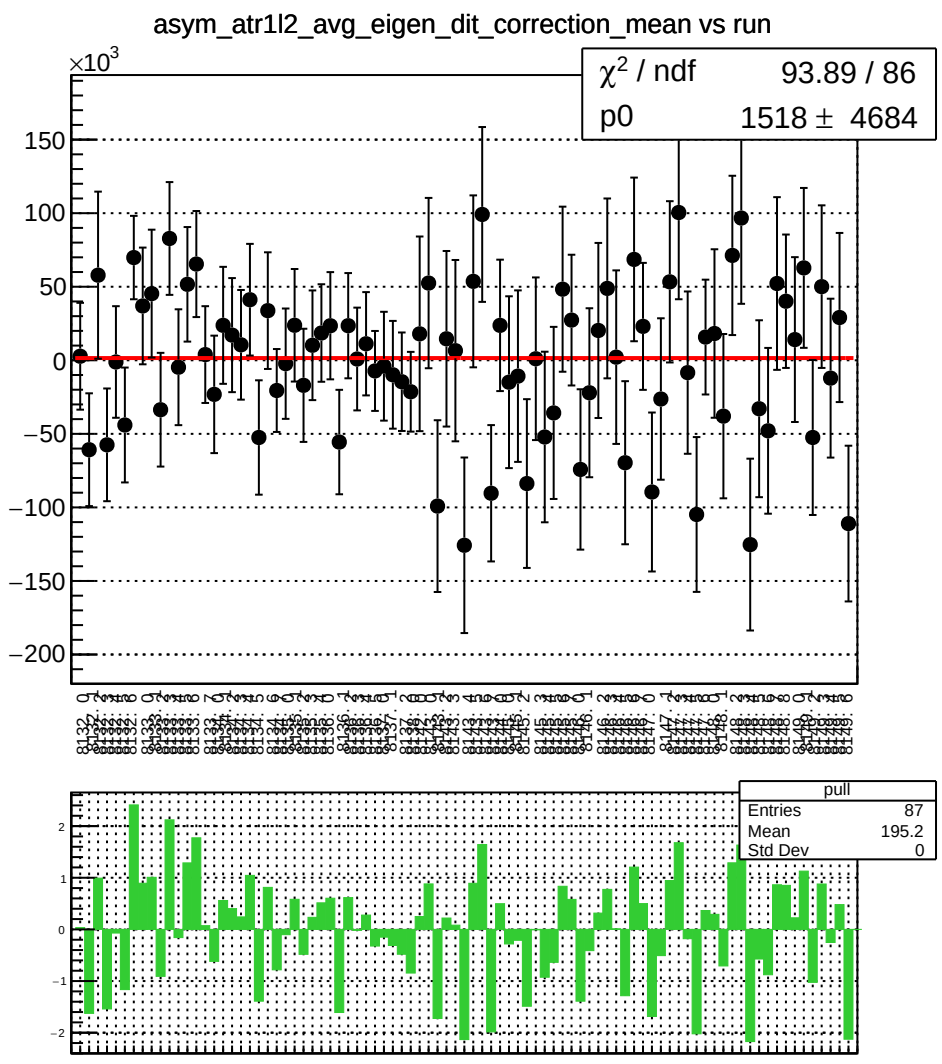

asym_atr1l2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 93.89 / 86
p0 1518 ± 4684
150
100
50
0
−50
−100
−150
−200
pull
Entries 87
Mean 195.2
Std Dev 0
2
1
0
−1
−2

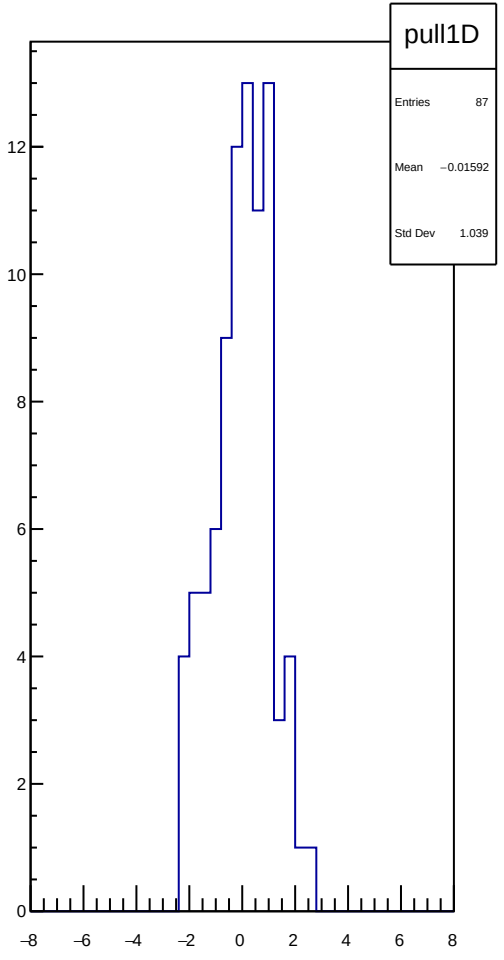

pull1D
Entries 87
Mean −0.01592
Std Dev 1.039
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

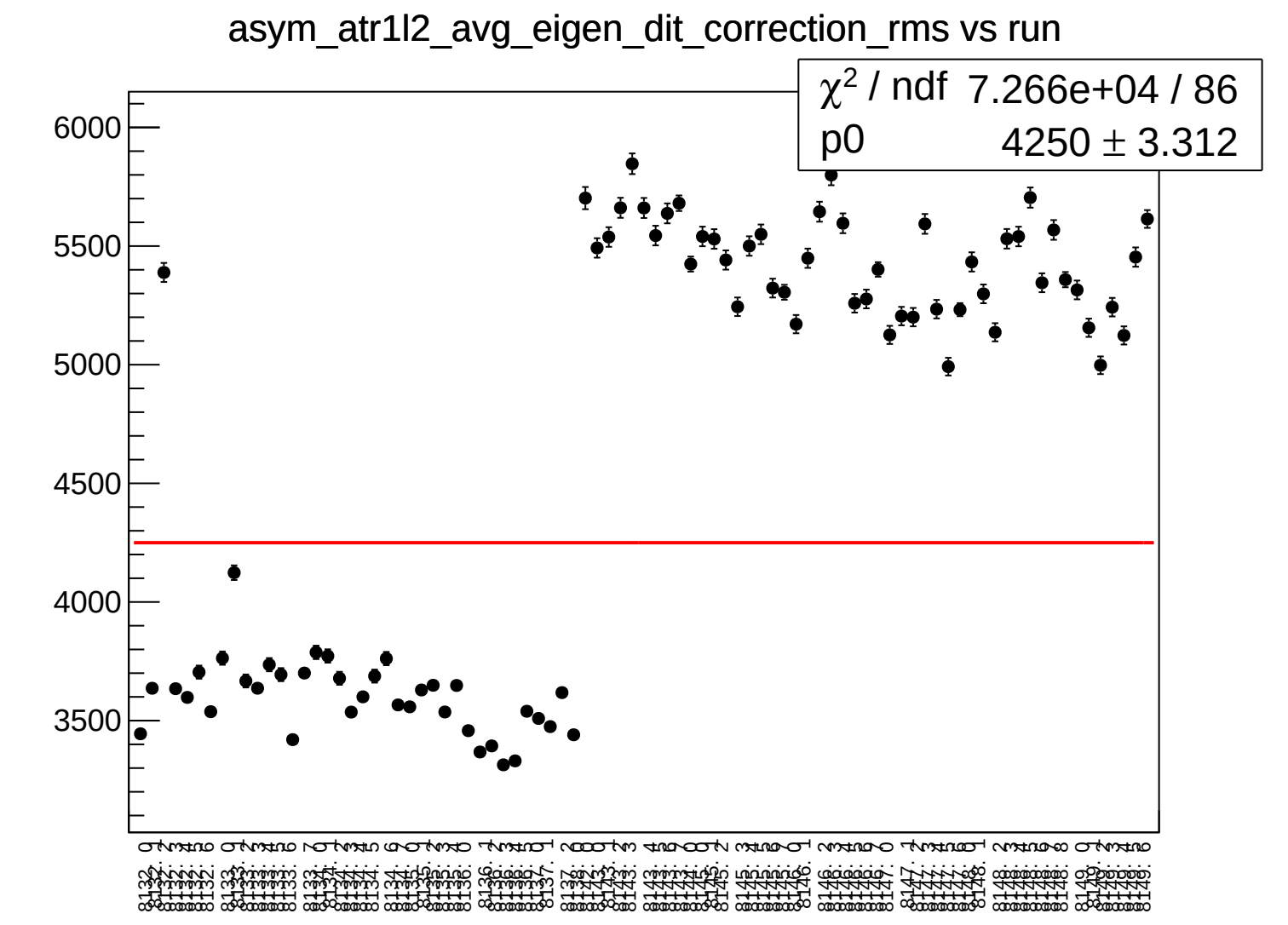

asym_atr1l2_avg_dit_correction_rms vs run
χ² / ndf 7.267e+04 / 86
p0 4250 ± 3.312
6000
5500
5000
4500
4000
3500

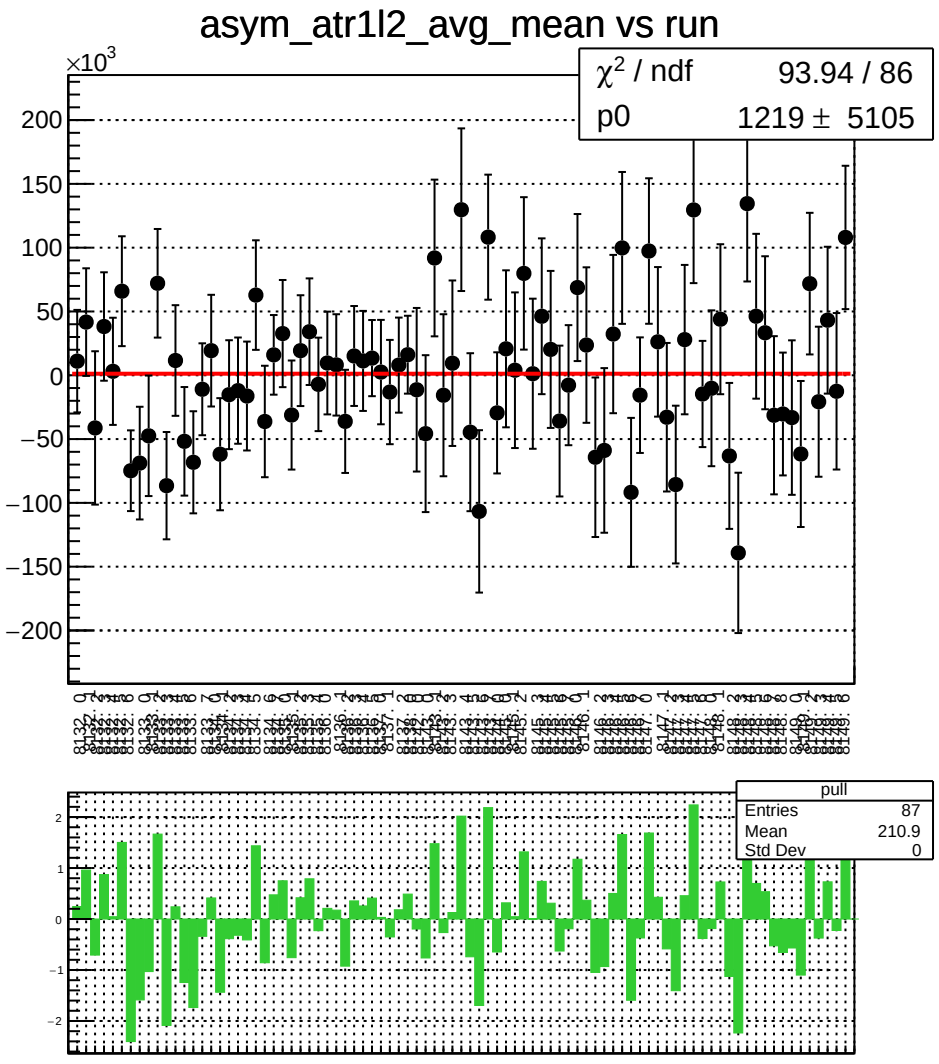

eigen_dit_asym_atr1l2_avg_mean vs run
χ² / ndf 80.45 / 86
p0 3021 ± 1927
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 661.4
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean 0.005028
Std Dev 0.9616
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

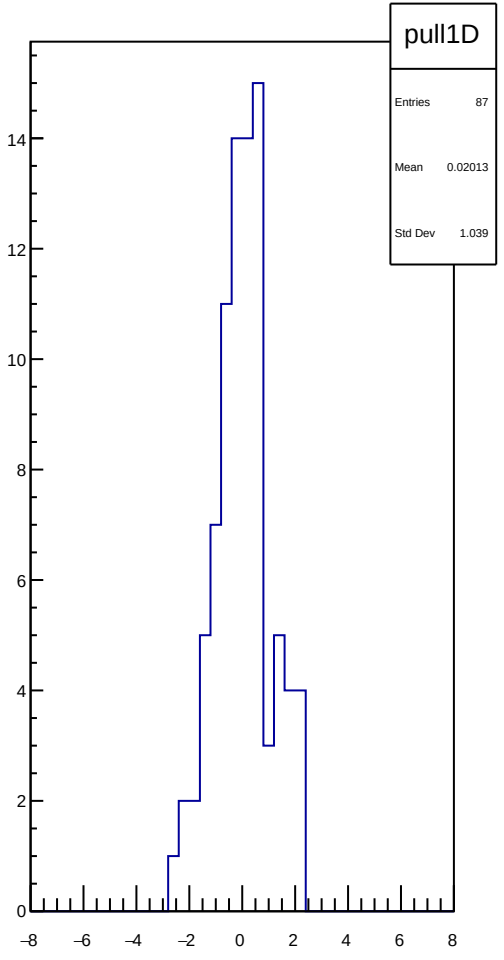

eigen_dit_asym_atr1l2_avg_rms vs run
χ² / ndf 1716 / 86
p0 1785 ± 1.362
1900
1850
1800
1750
1700
1650

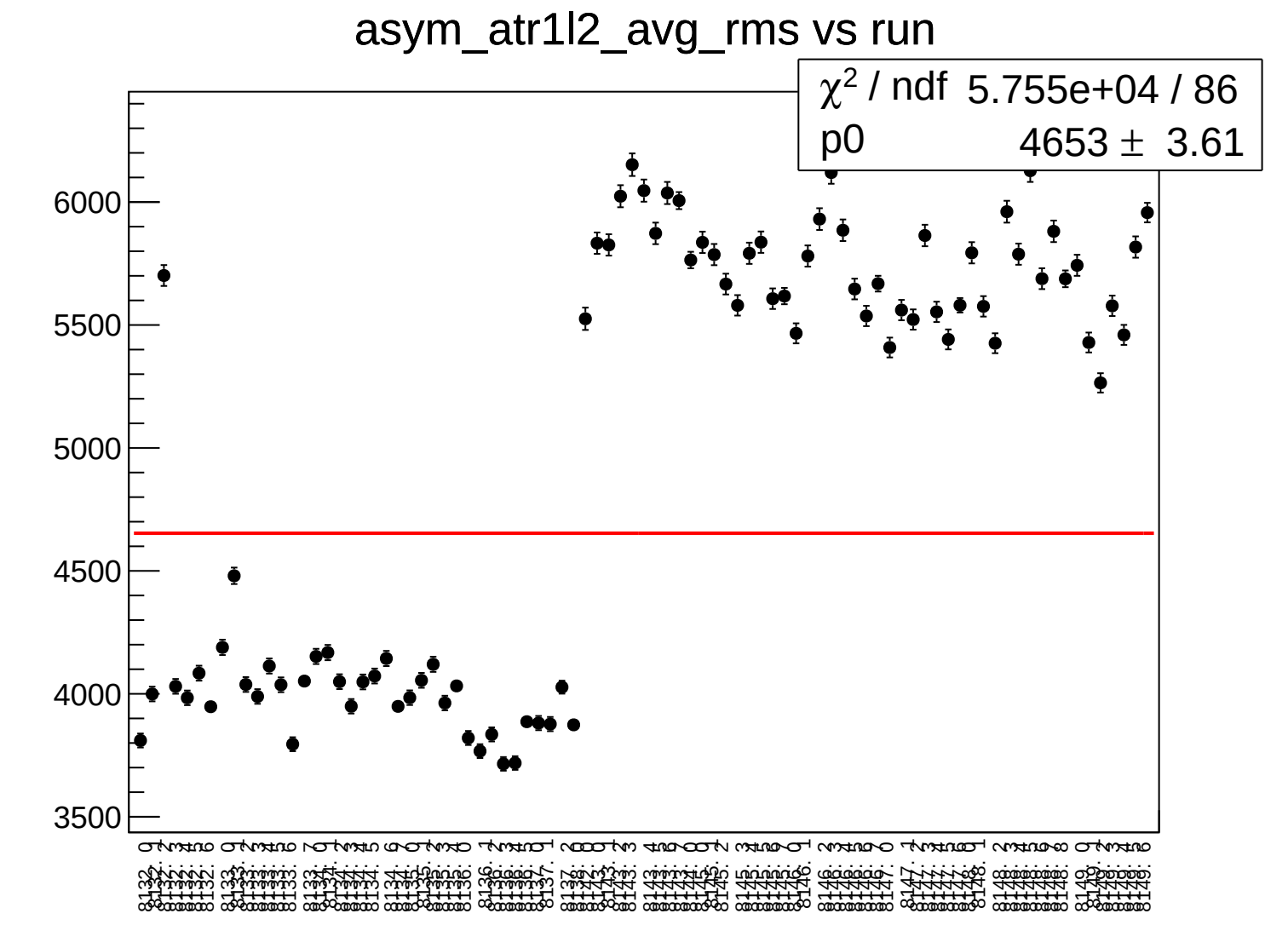

asym_atr1l2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 93.89 / 86
p0 1518 ± 4684
150
100
50
0
−50
−100
−150
−200
pull
Entries 87
Mean 195.2
Std Dev 0
2
1
0
−1
−2

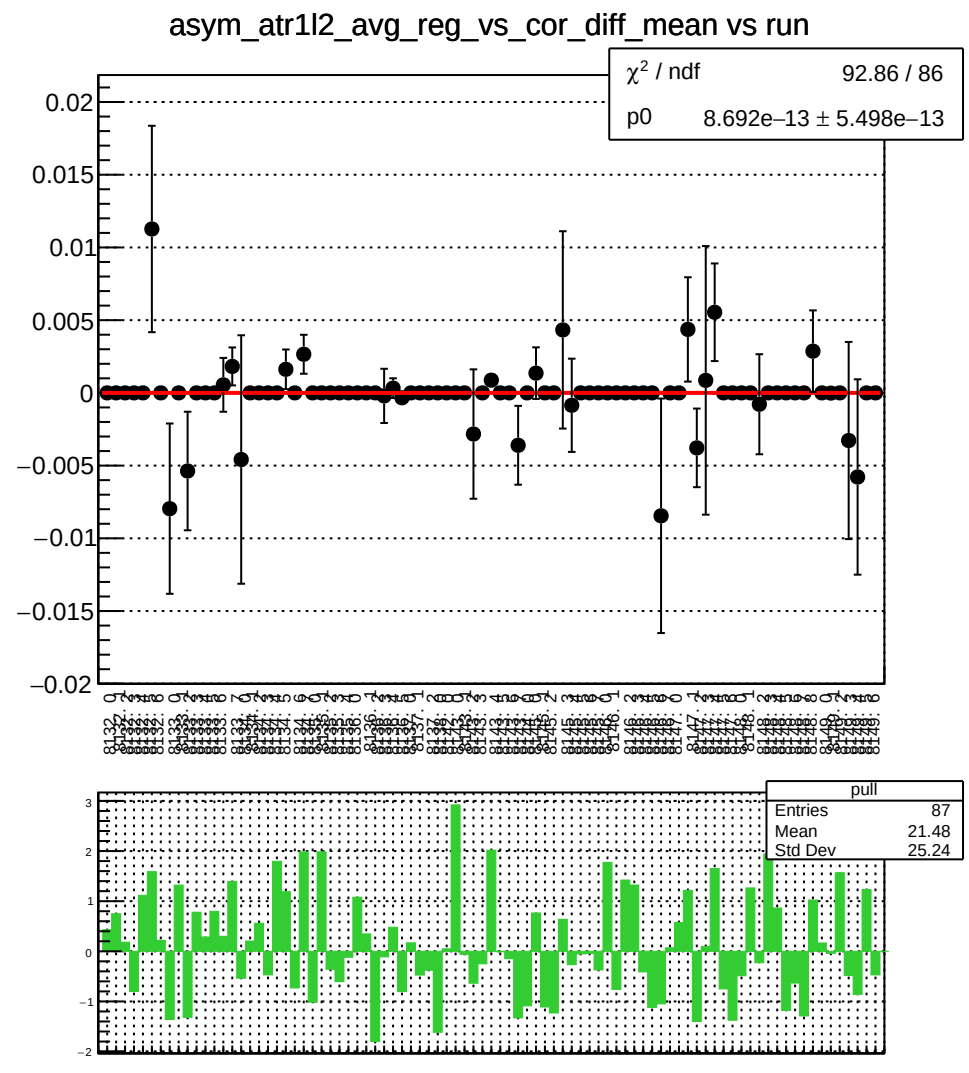

pull1D
Entries 87
Mean −0.01592
Std Dev 1.039
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

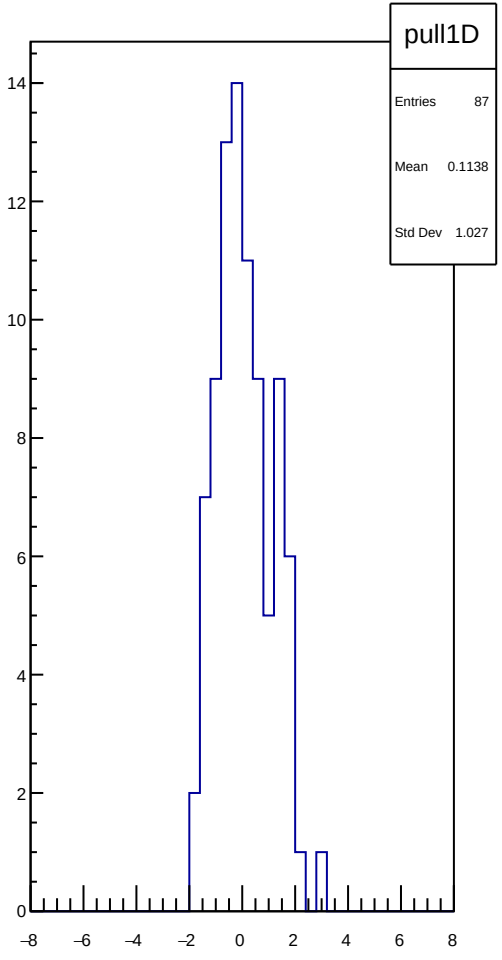

asym_atr1l2_avg_eigen_dit_correction_rms vs run
χ² / ndf 7.266e+04 / 86
p0 4250 ± 3.312
6000
5500
5000
4500
4000
3500

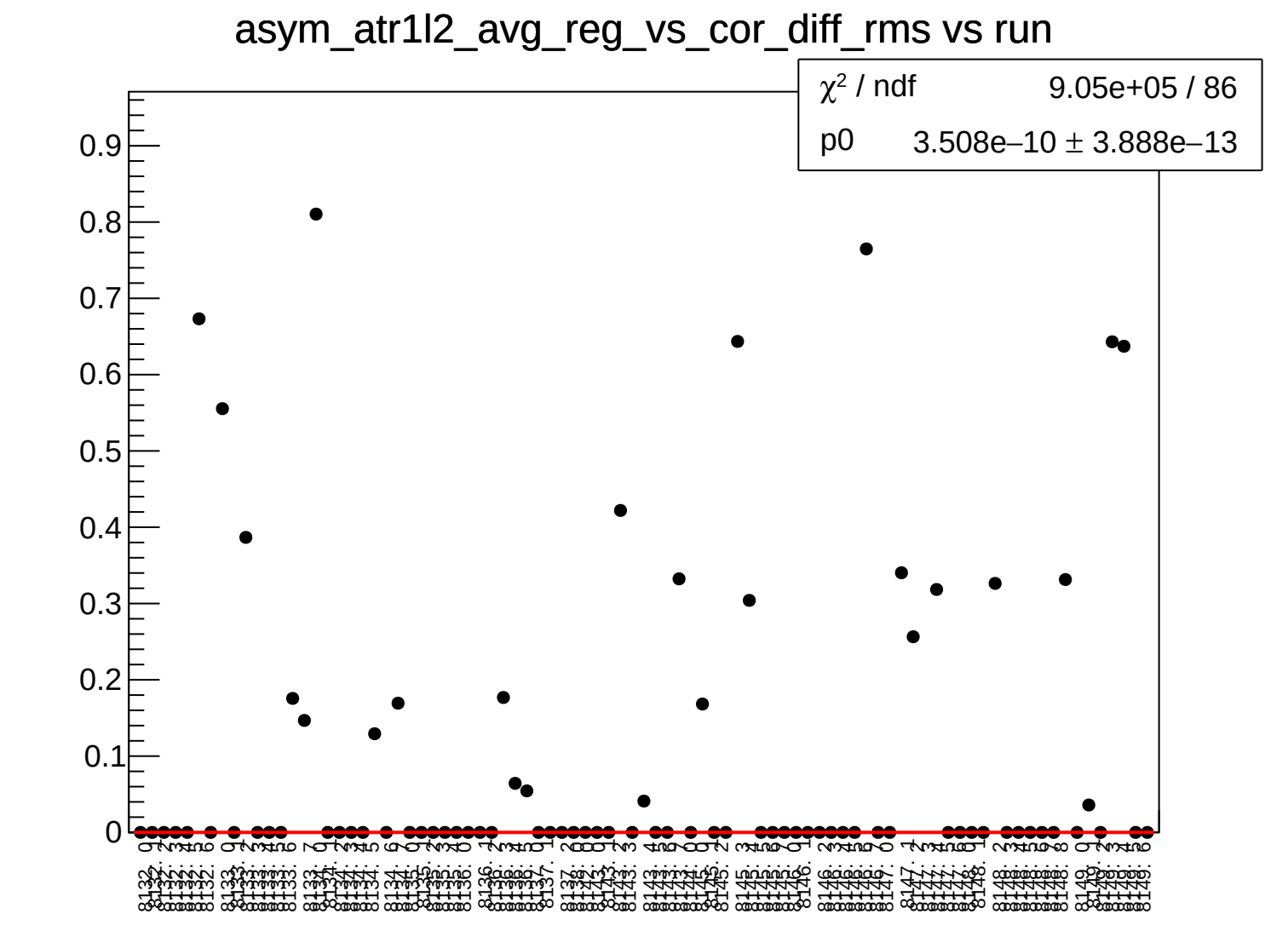

asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 93.94 / 86
p0 1219 ± 5105
pull
Entries 87
Mean 210.9
Std Dev 0

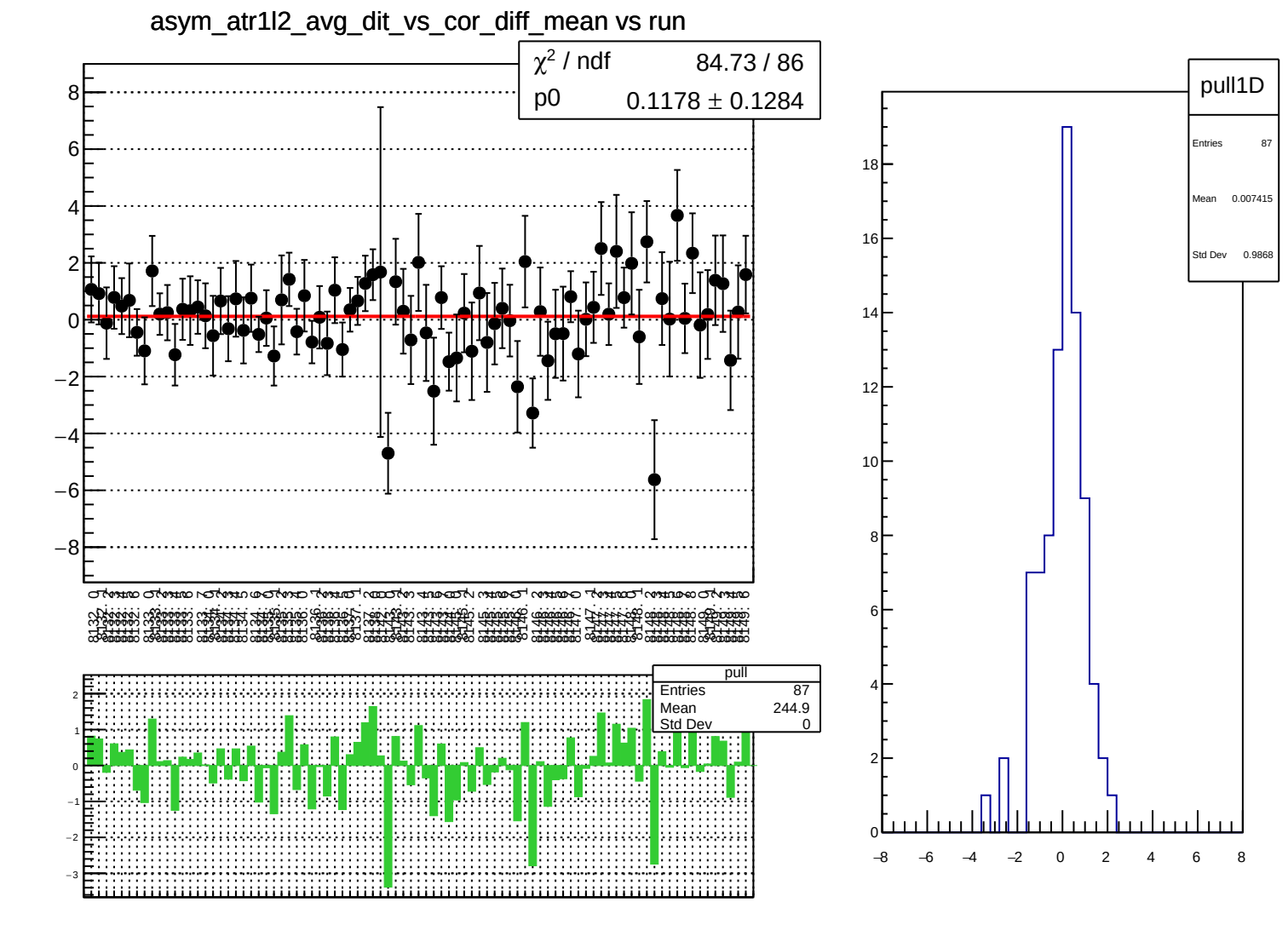

pull1D
Entries 87
Mean 0.02013
Std Dev 1.039

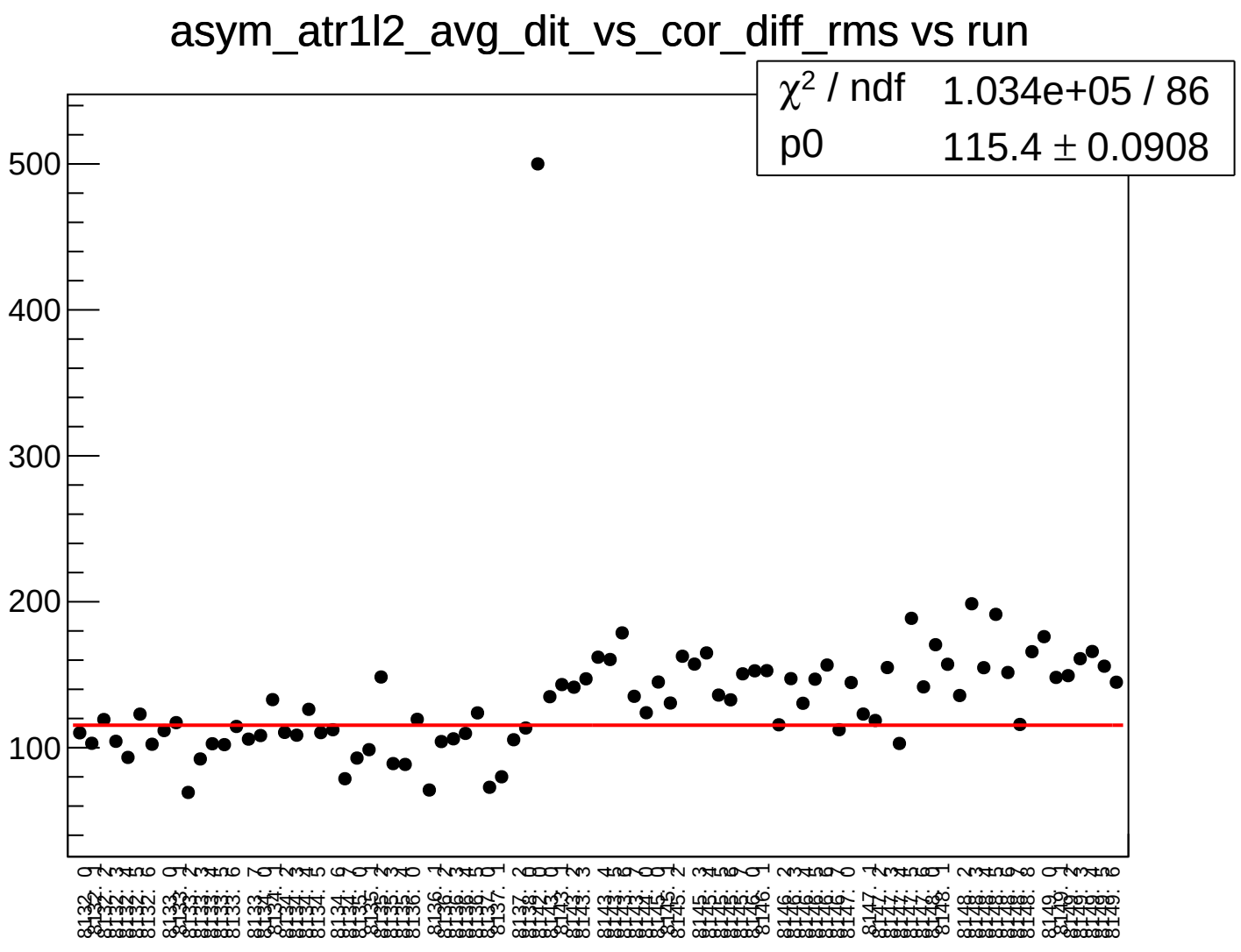

asym_atr1l2_avg_rms vs run
χ² / ndf 5.755e+04 / 86
p0 4653 ± 3.61
6000
5500
5000
4500
4000
3500

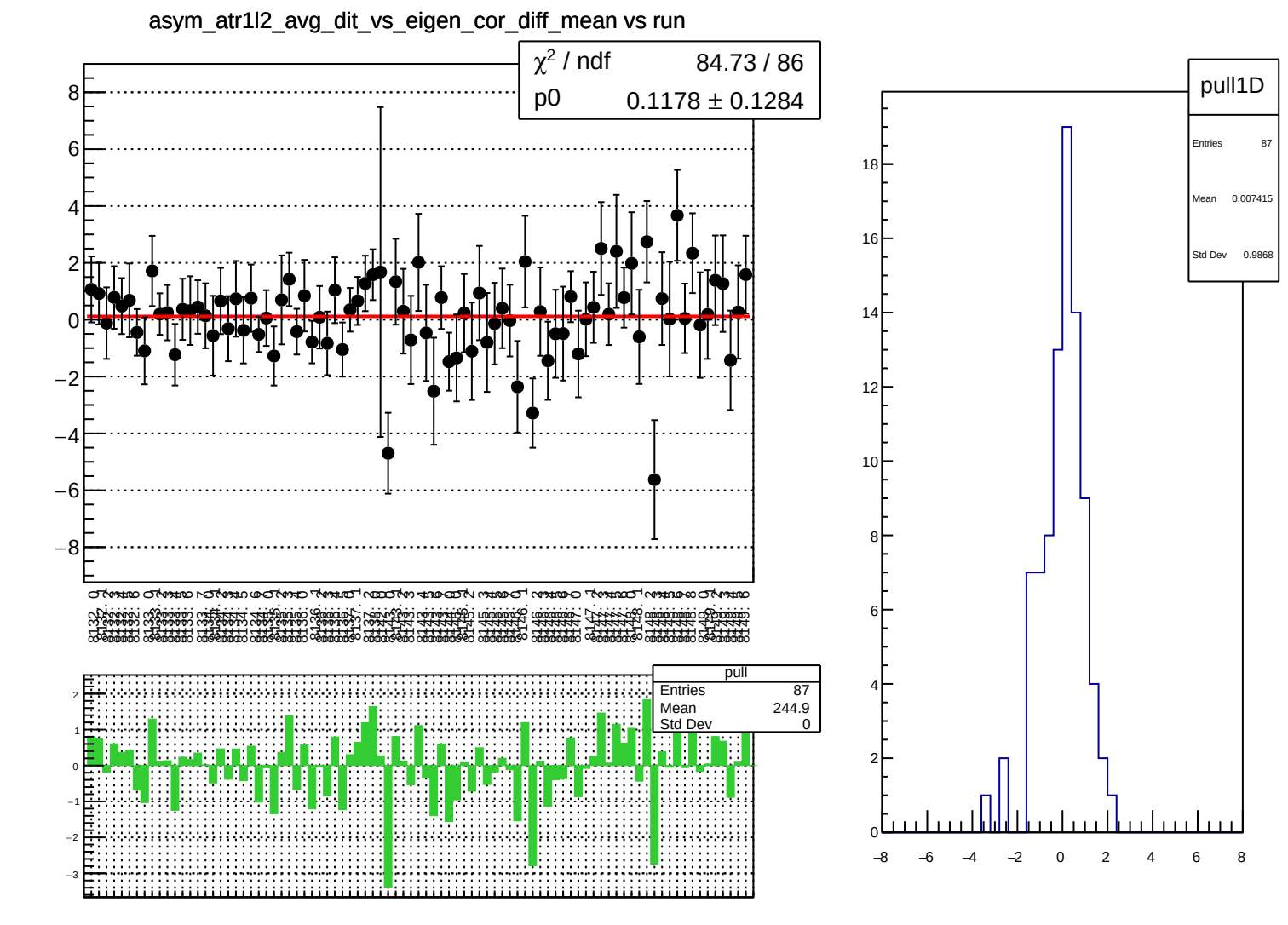

asym_atr1l2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 92.86 / 86
p0 8.692e−13 ± 5.498e−13
pull
Entries 87
Mean 21.48
Std Dev 25.24

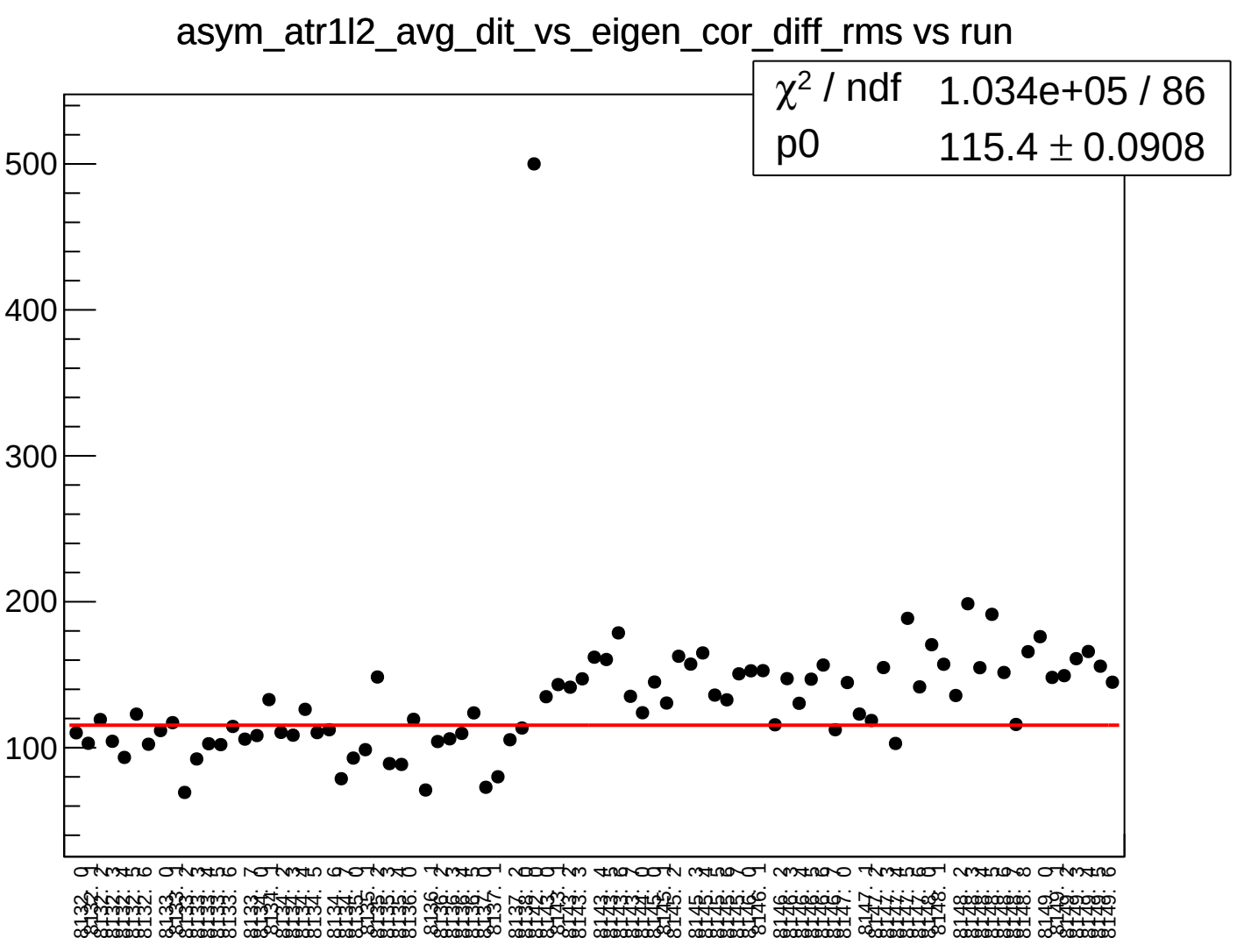

pull1D
Entries 87
Mean 0.1138
Std Dev 1.027

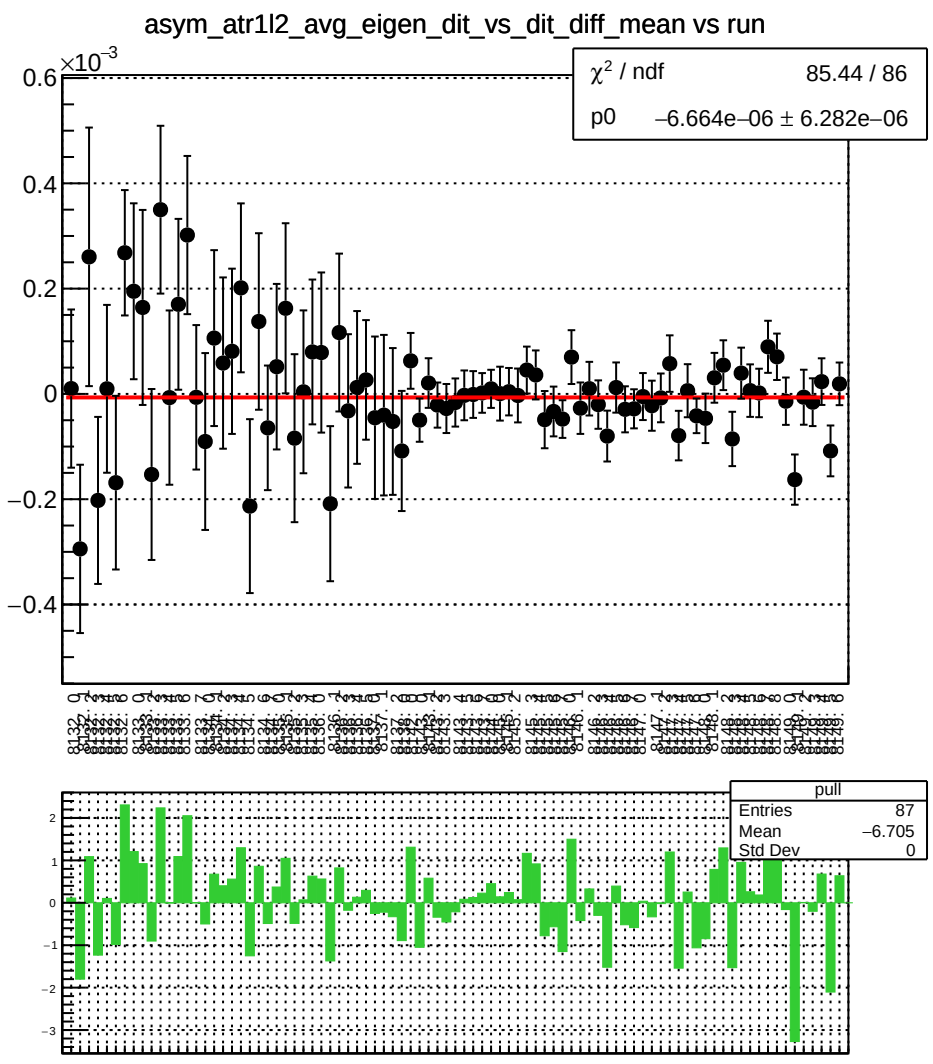

asym_atr1l2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.05e+05 / 86
p0 3.508e−10 ± 3.888e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

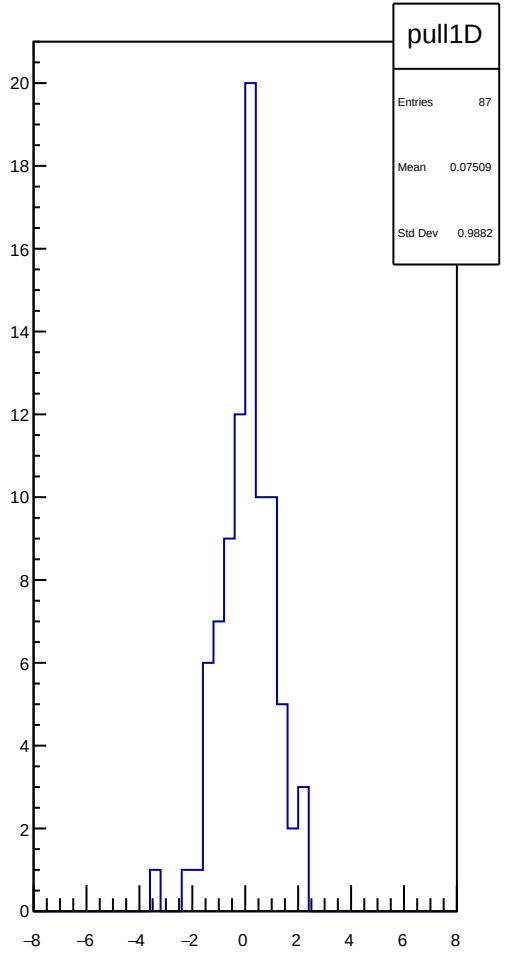

asym_atr1l2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 84.73 / 86
p0 0.1178 ± 0.1284
pull
Entries 87
Mean 244.9
Std Dev 0
pull1D
Entries 87
Mean 0.007415
Std Dev 0.9868

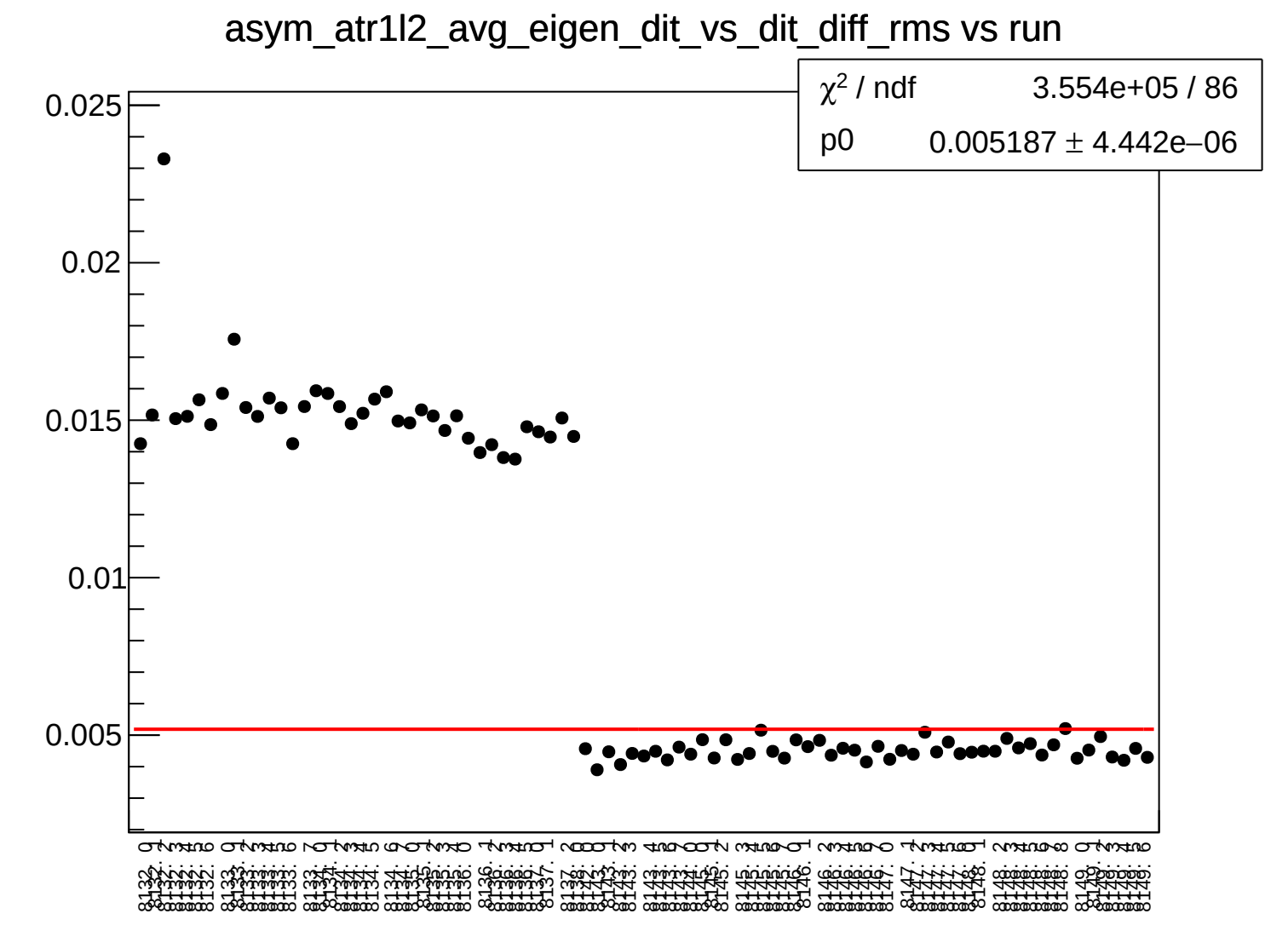

asym_atr1l2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.034e+05 / 86
p0 115.4 ± 0.0908
500
400
300
200
100

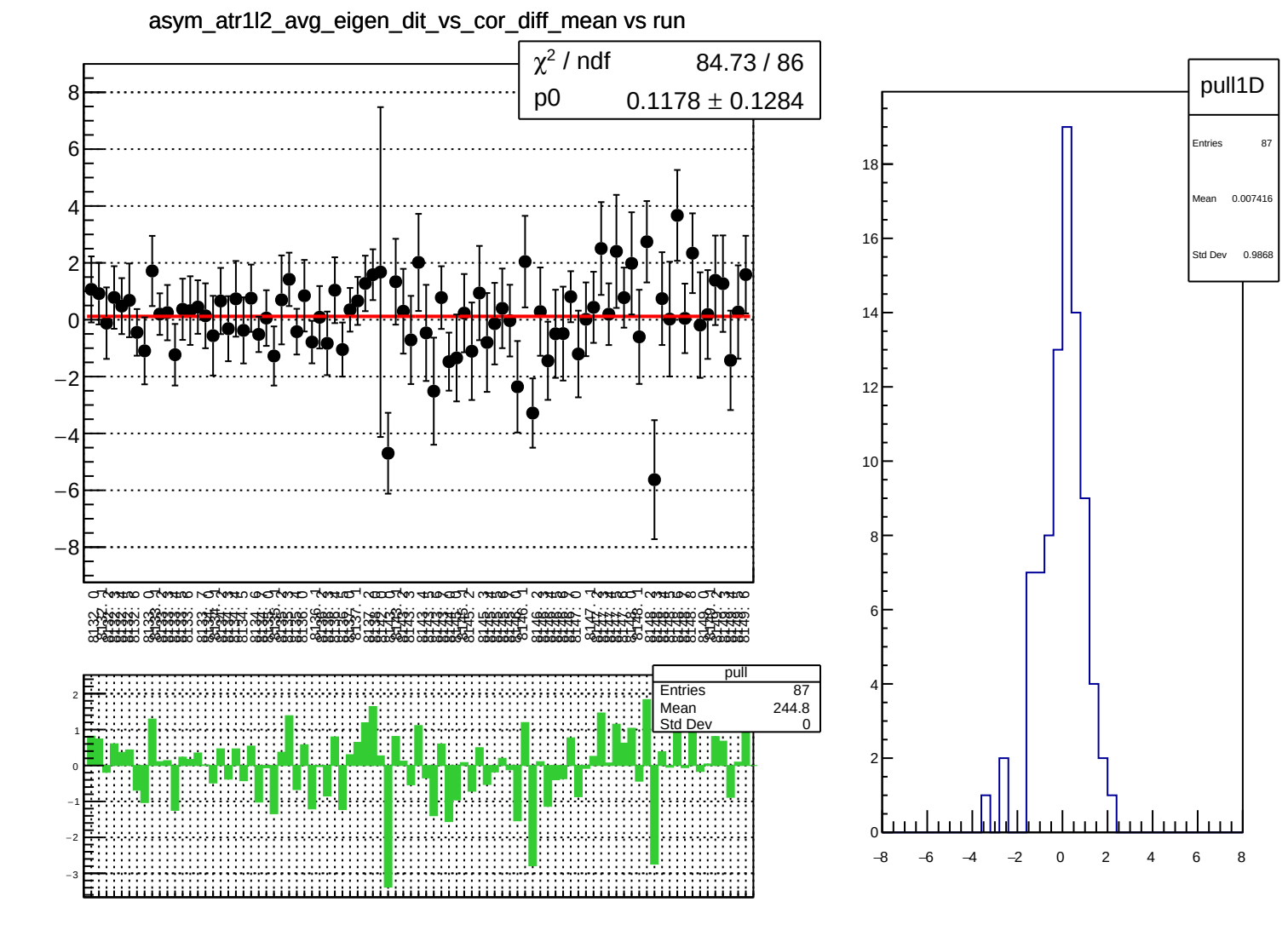

asym_atr1l2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.73 / 86
p0 0.1178 ± 0.1284
pull
Entries 87
Mean 244.9
Std Dev 0
pull1D
Entries 87
Mean 0.007415
Std Dev 0.9868

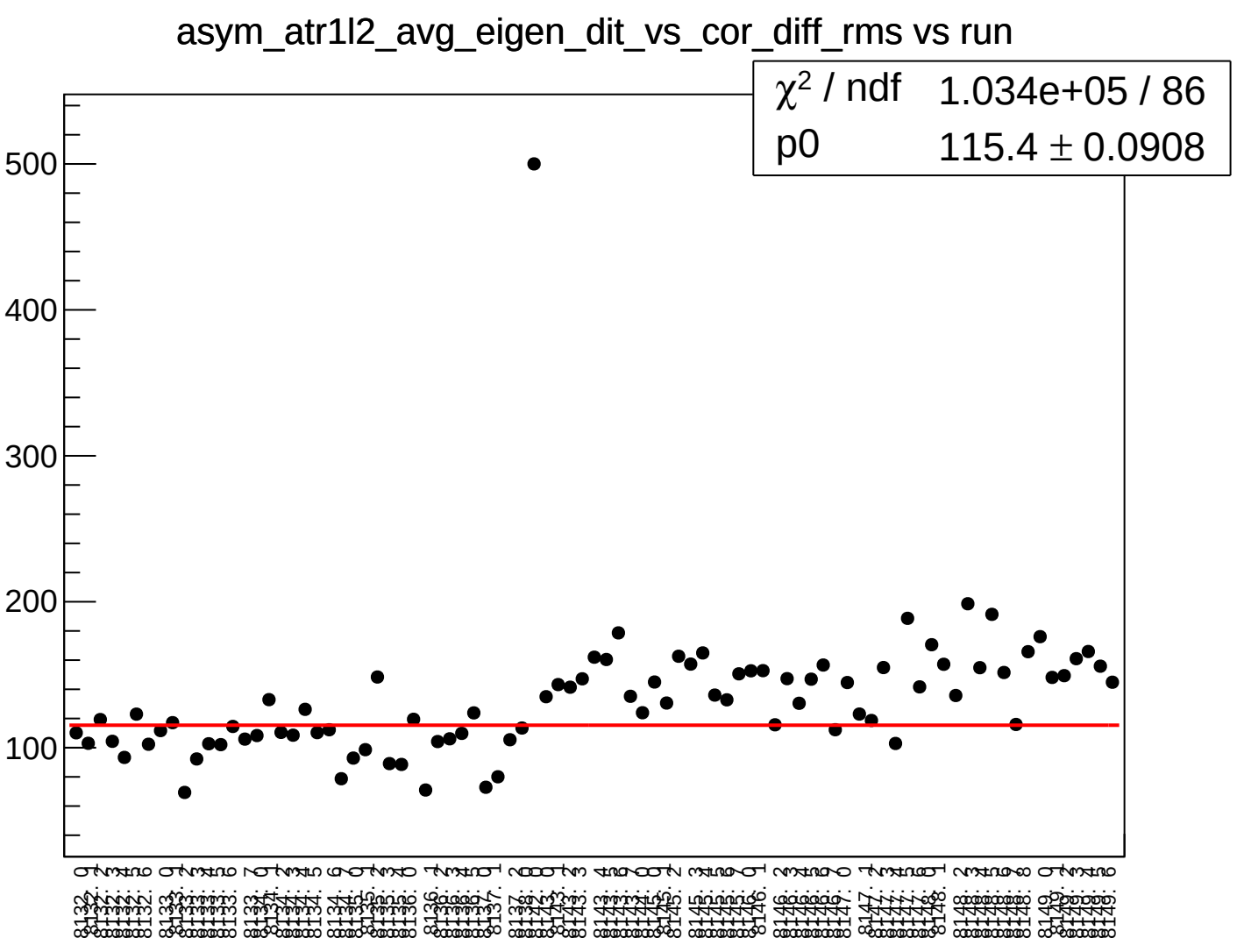

asym_atr1l2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.034e+05 / 86
p0 115.4 ± 0.0908
500
400
300
200
100

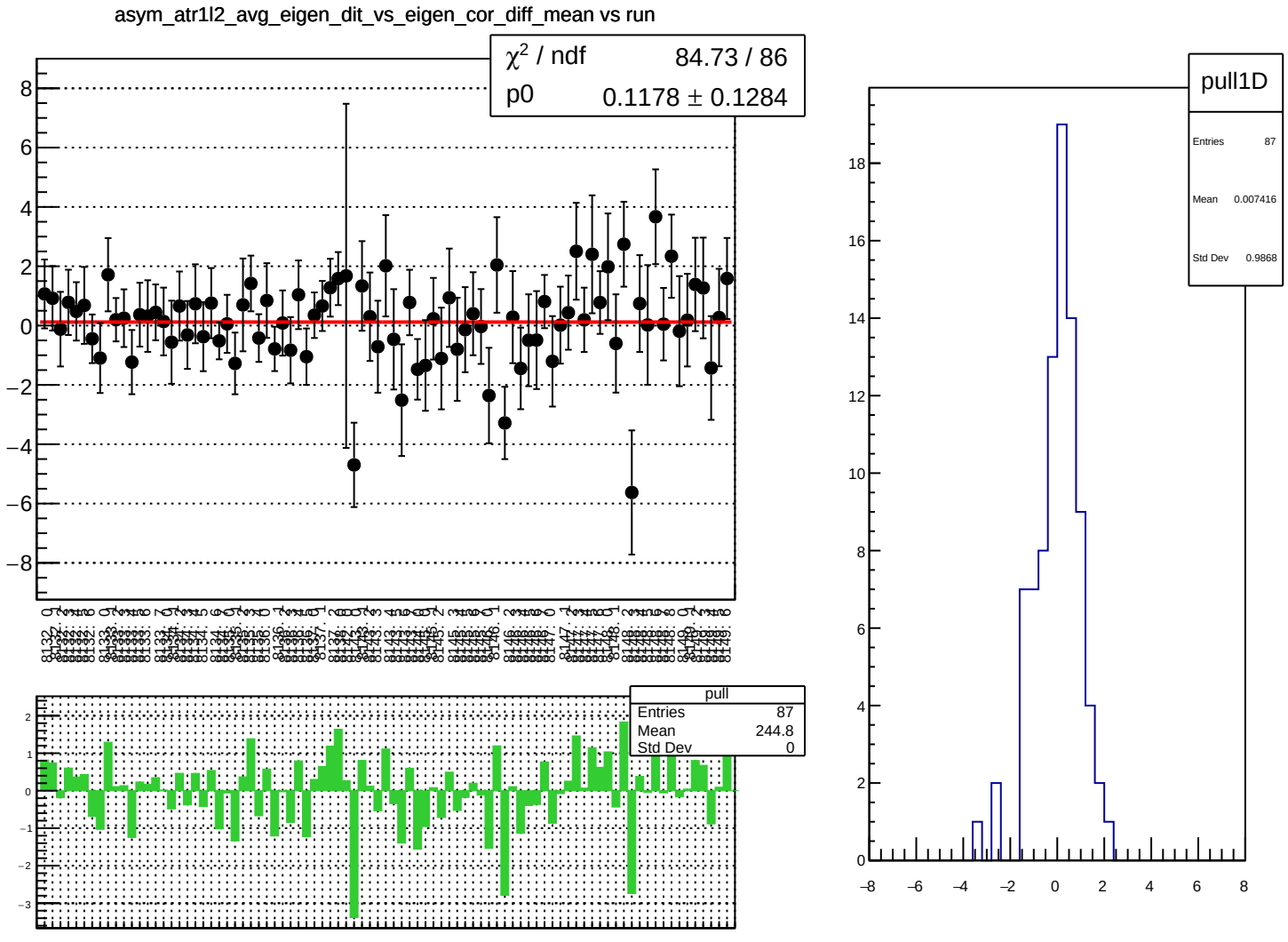

asym_atr1l2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.44 / 86
p0 −6.664e−06 ± 6.282e−06
pull
Entries 87
Mean −6.705
Std Dev 0

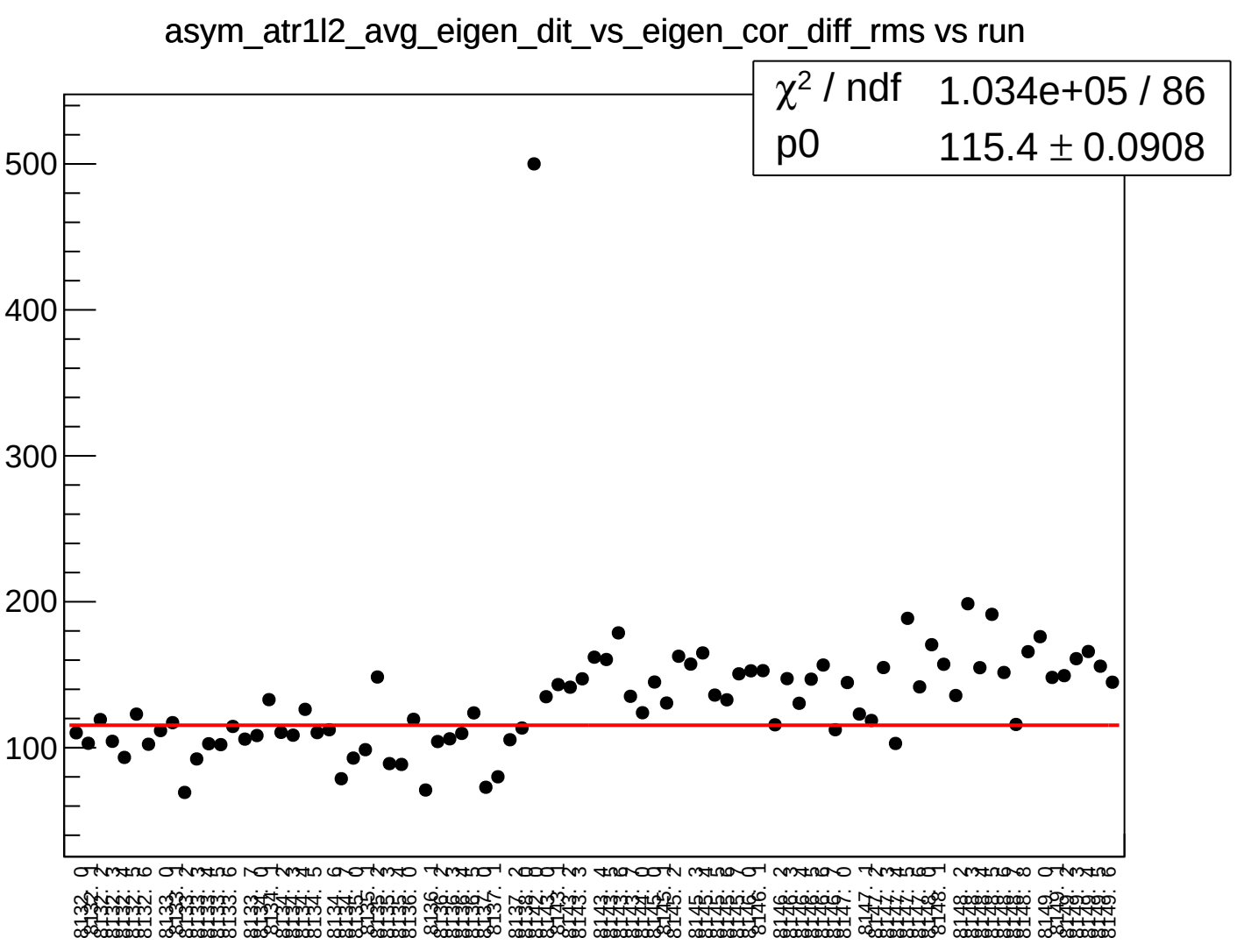

pull1D
Entries 87
Mean 0.07509
Std Dev 0.9882

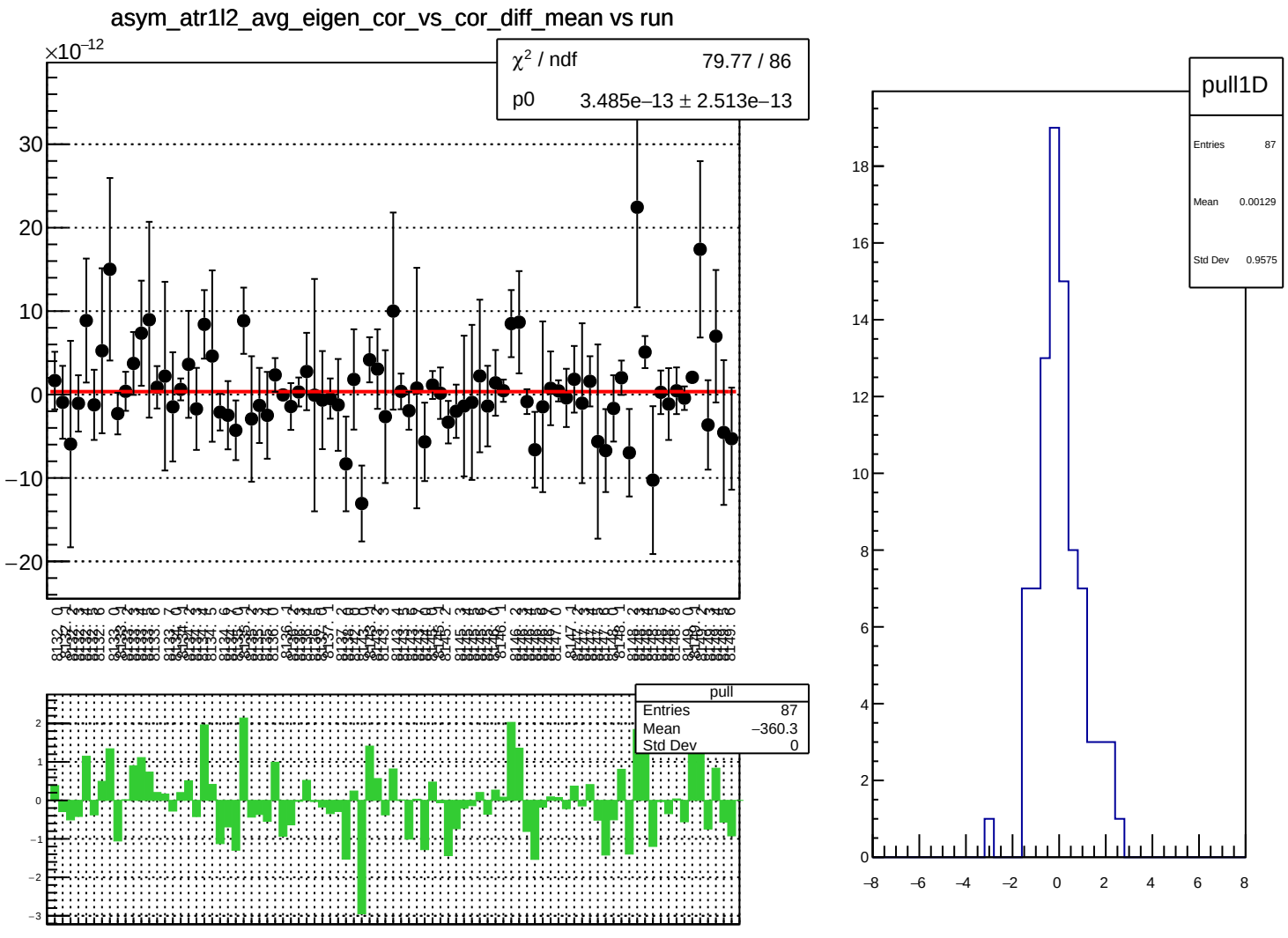

asym_atr1l2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.554e+05 / 86
p0 0.005187 ± 4.442e−06
0.025
0.02
0.015
0.01
0.005

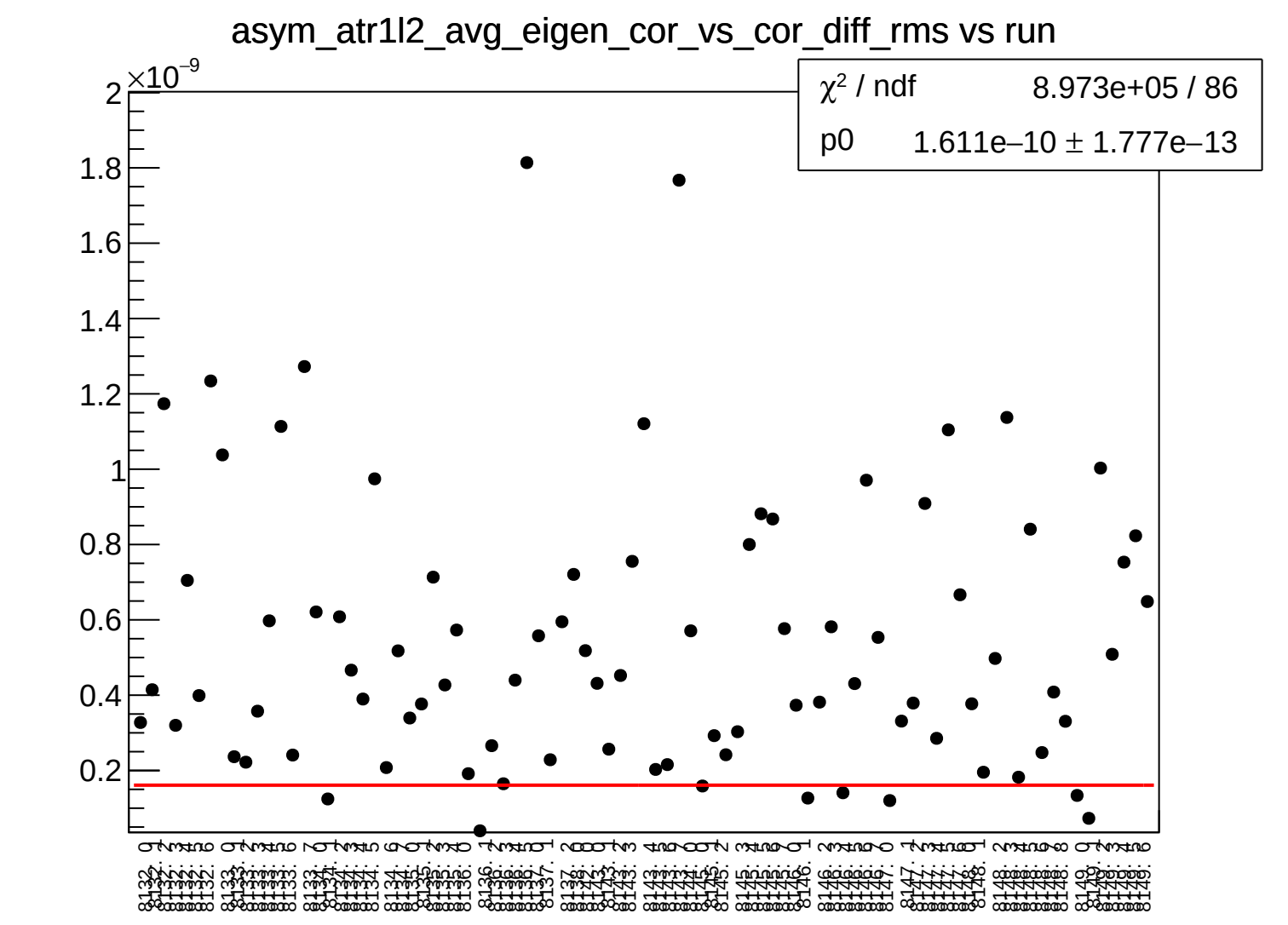

asym_atr1l2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.73 / 86
p0 0.1178 ± 0.1284
pull
Entries 87
Mean 244.8
Std Dev 0
pull1D
Entries 87
Mean 0.007416
Std Dev 0.9868

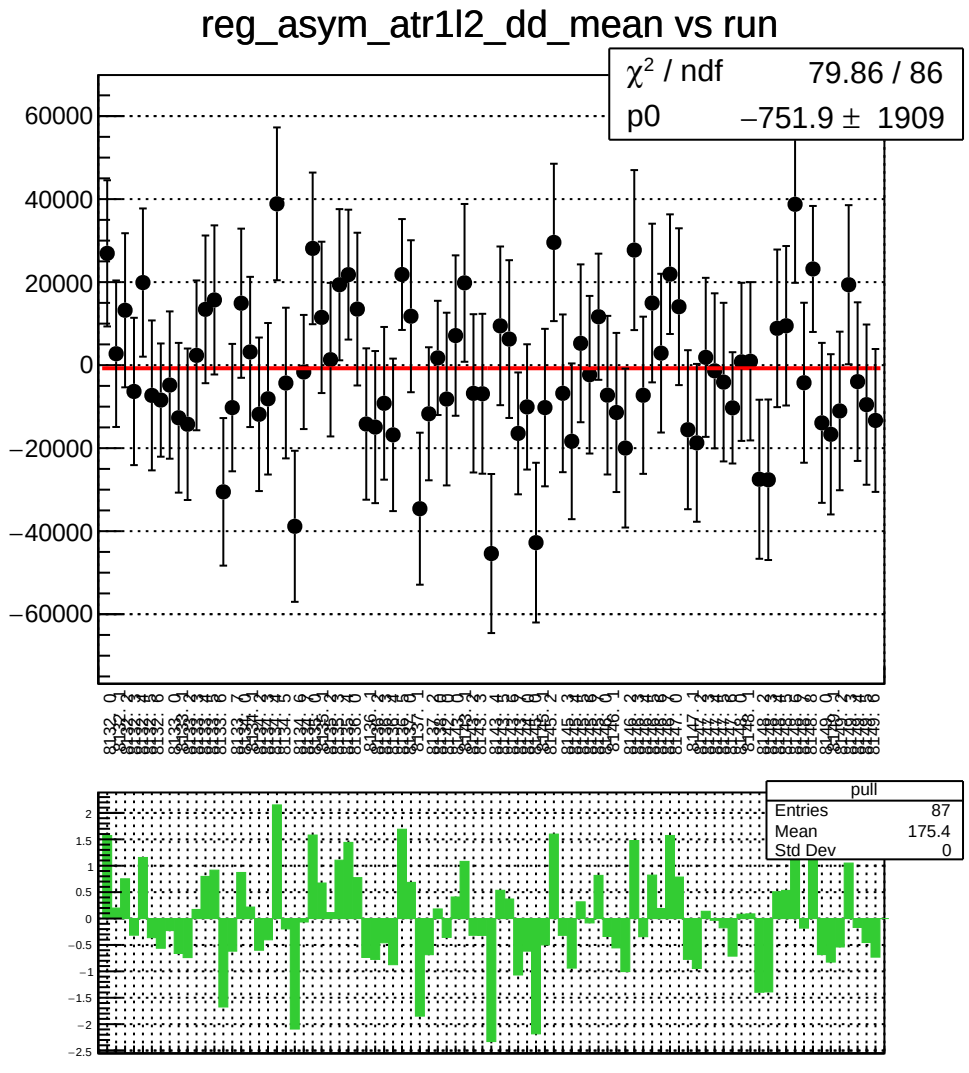

asym_atr1l2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.034e+05 / 86
p0 115.4 ± 0.0908
500
400
300
200
100

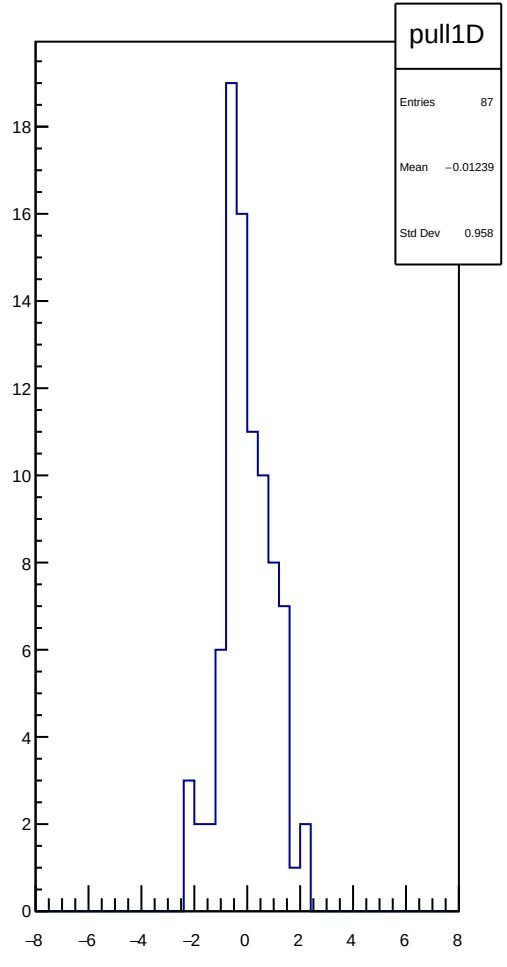

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.73 / 86
p0 0.1178 ± 0.1284
pull
Entries 87
Mean 244.8
Std Dev 0
pull1D
Entries 87
Mean 0.007416
Std Dev 0.9868

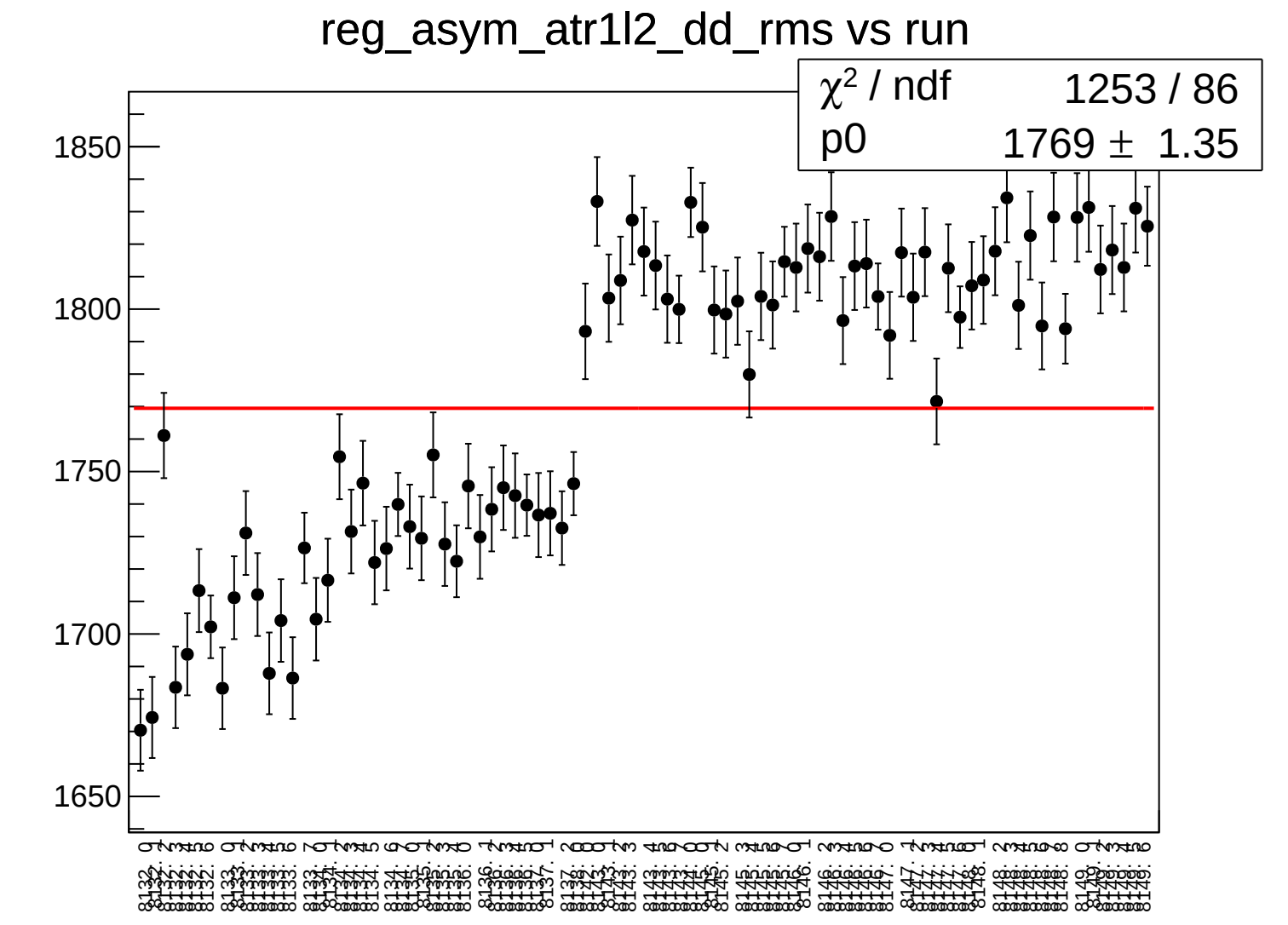

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.034e+05 / 86
p0 115.4 ± 0.0908
500
400
300
200
100

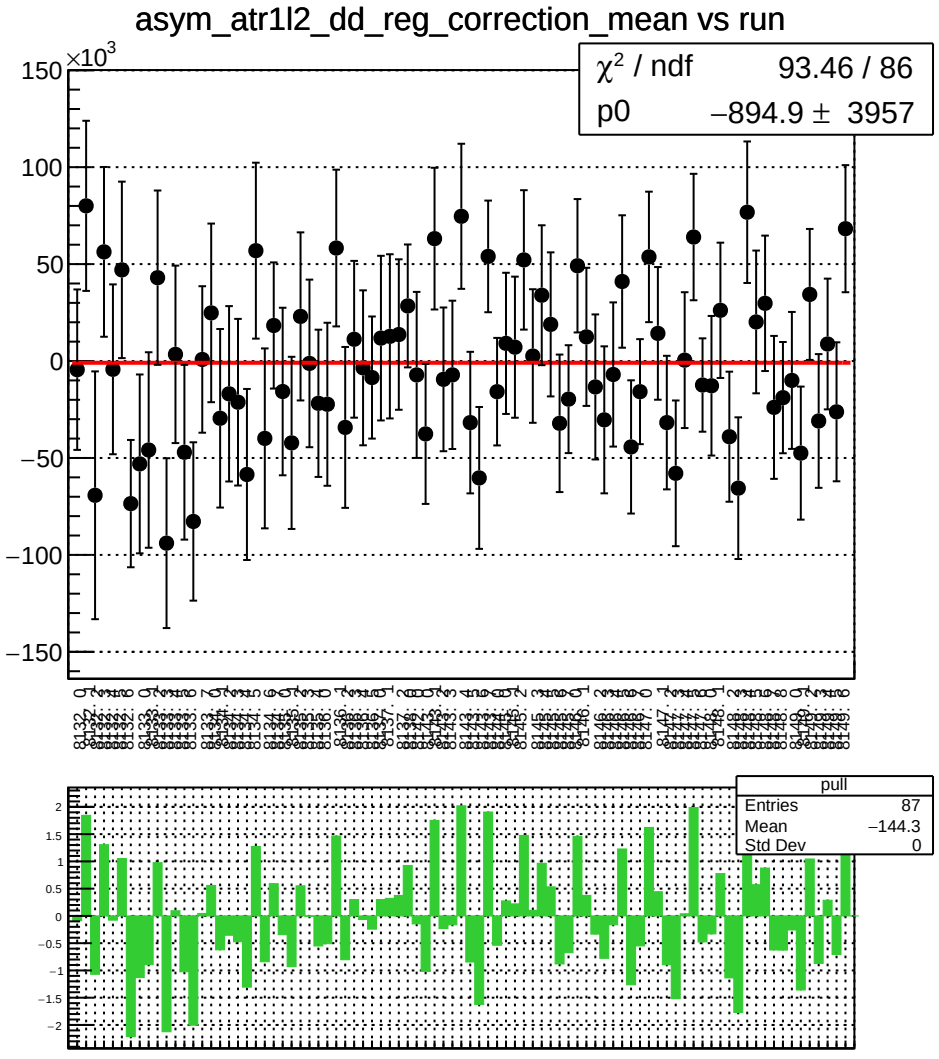

asym_atr1l2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.77 / 86
p0 3.485e−13 ± 2.513e−13
30
20
10
0
−10
−20
pull
Entries 87
Mean −360.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean 0.00129
Std Dev 0.9575
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

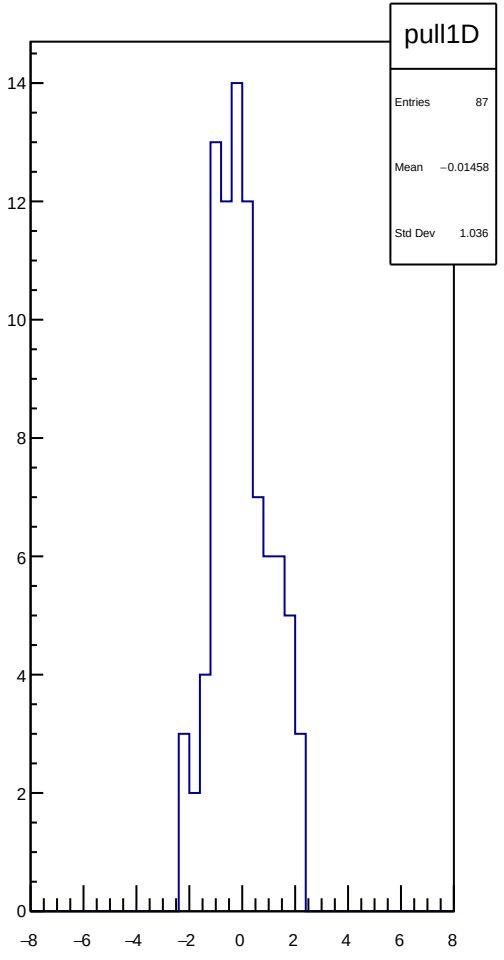

asym_atr1l2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.973e+05 / 86
p0 1.611e−10 ± 1.777e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

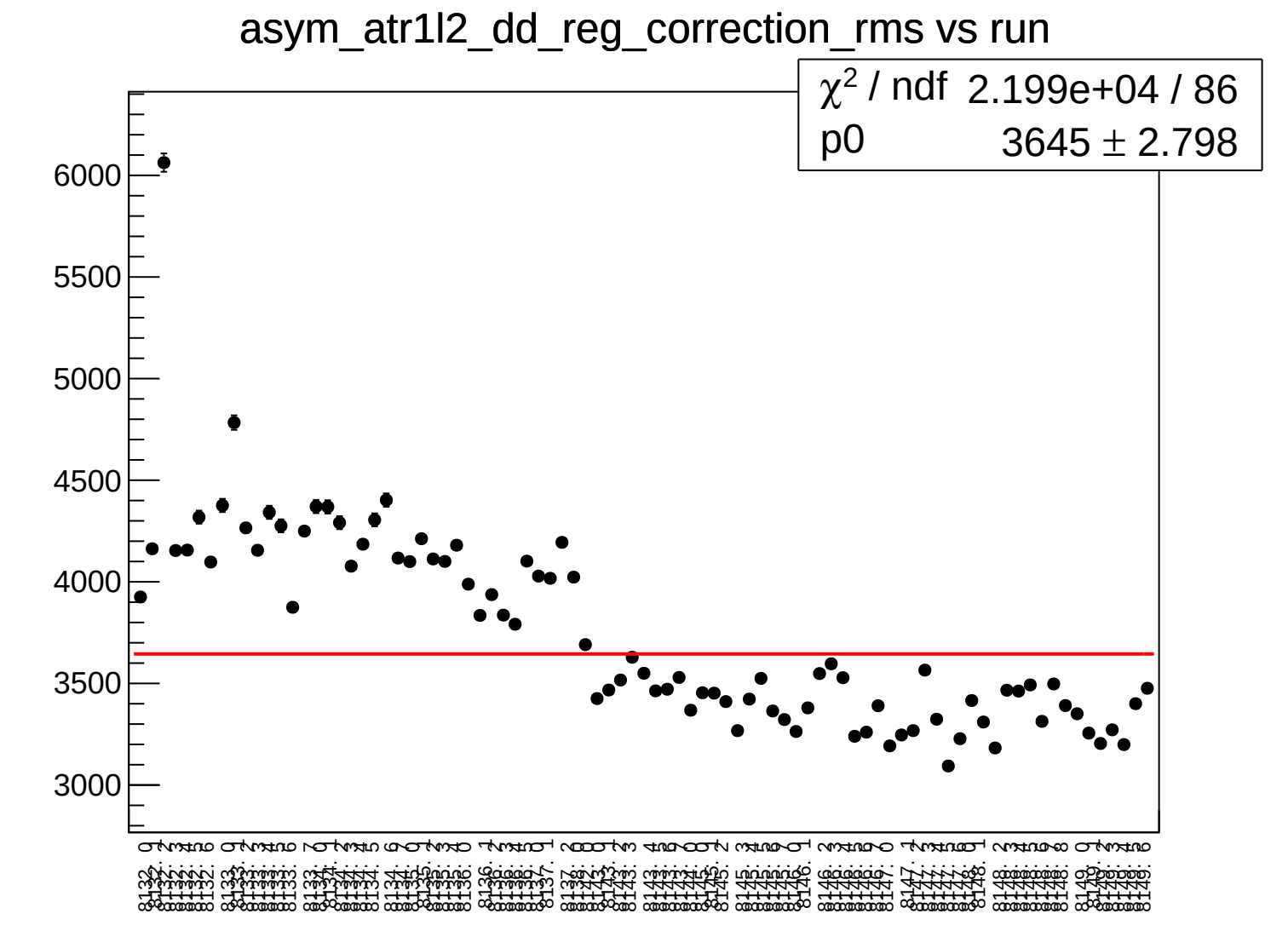

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 79.86 / 86
p0 −751.9 ± 1909
pull
Entries 87
Mean 175.4
Std Dev 0

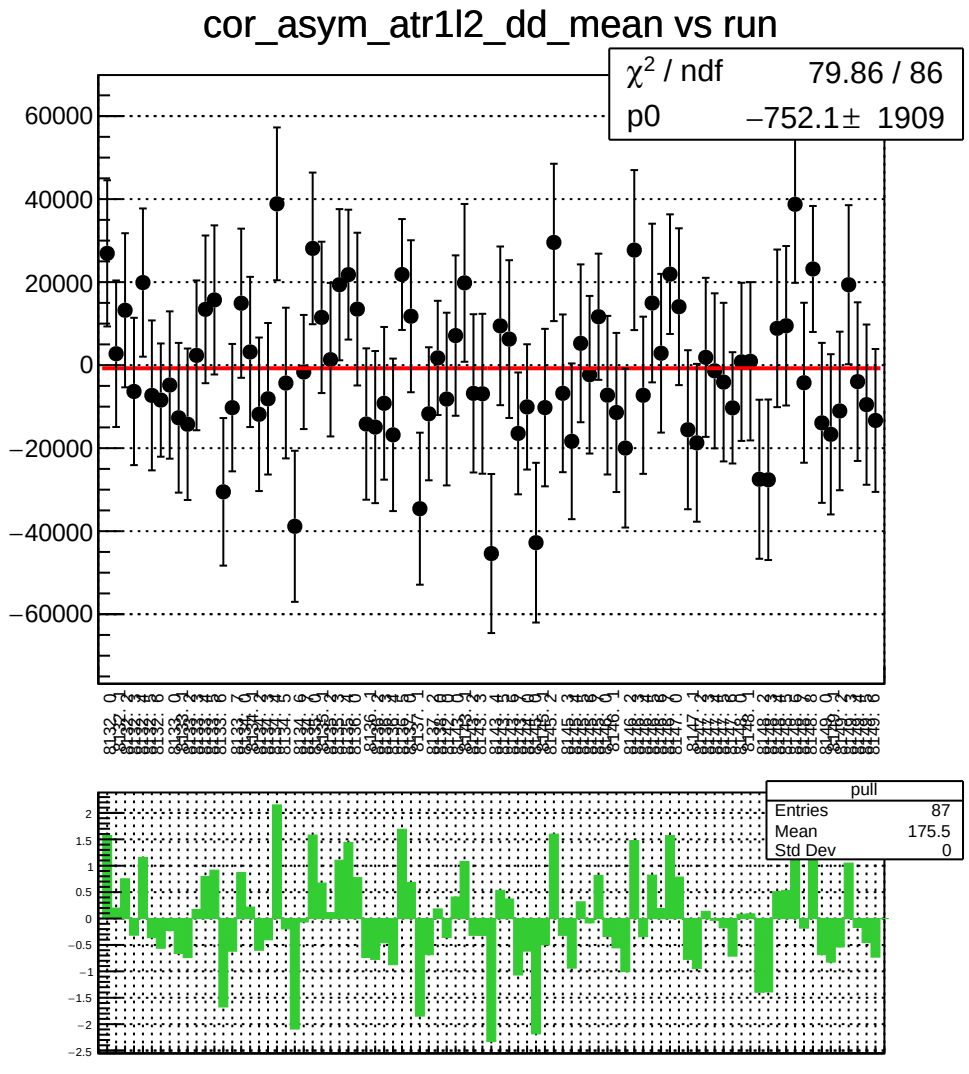

pull1D
Entries 87
Mean −0.01239
Std Dev 0.958

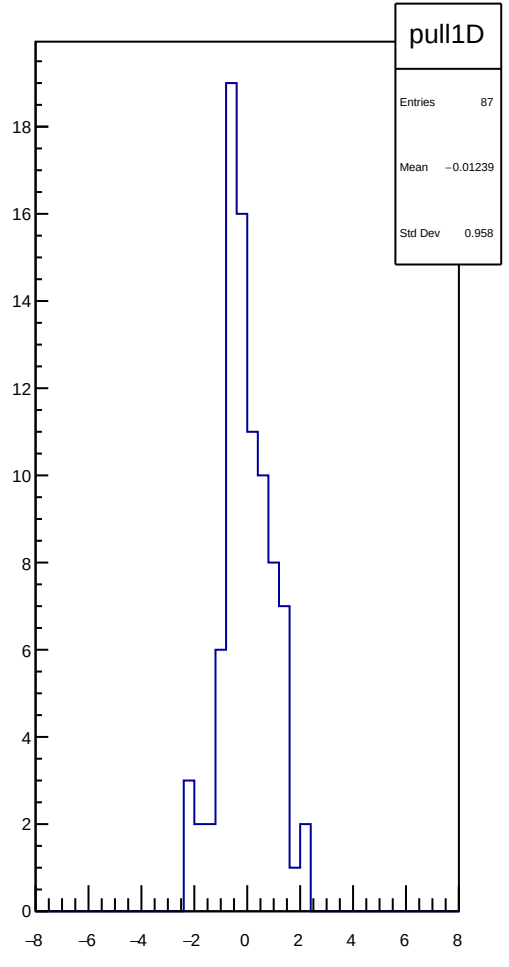

reg_asym_atr1l2_dd_rms vs run
χ² / ndf 1253 / 86
p0 1769 ± 1.35
1850
1800
1750
1700
1650

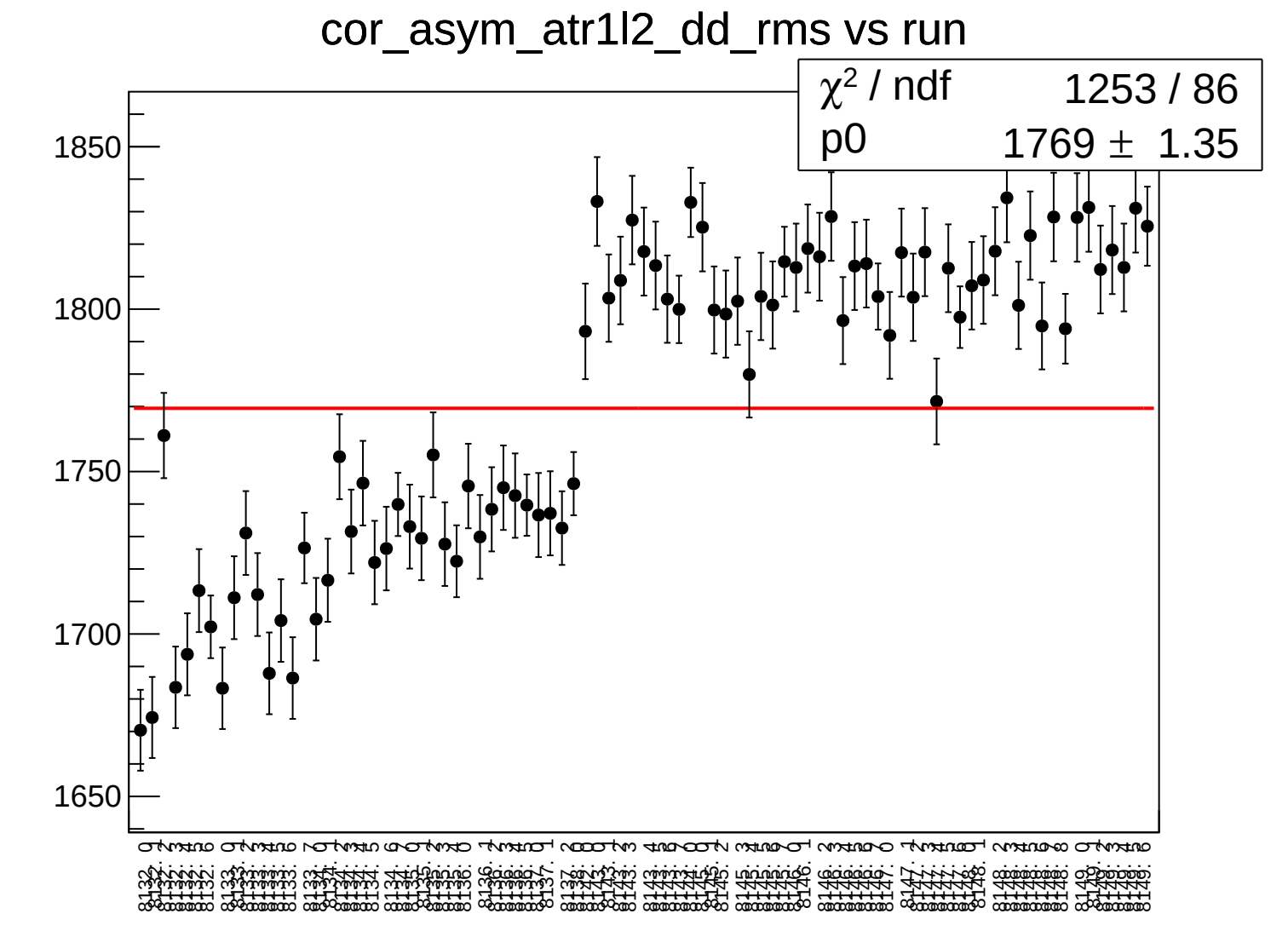

asym_atr1l2_dd_reg_correction_mean vs run
χ² / ndf 93.46 / 86
p0 −894.9 ± 3957
×10³
pull
Entries 87
Mean −144.3
Std Dev 0

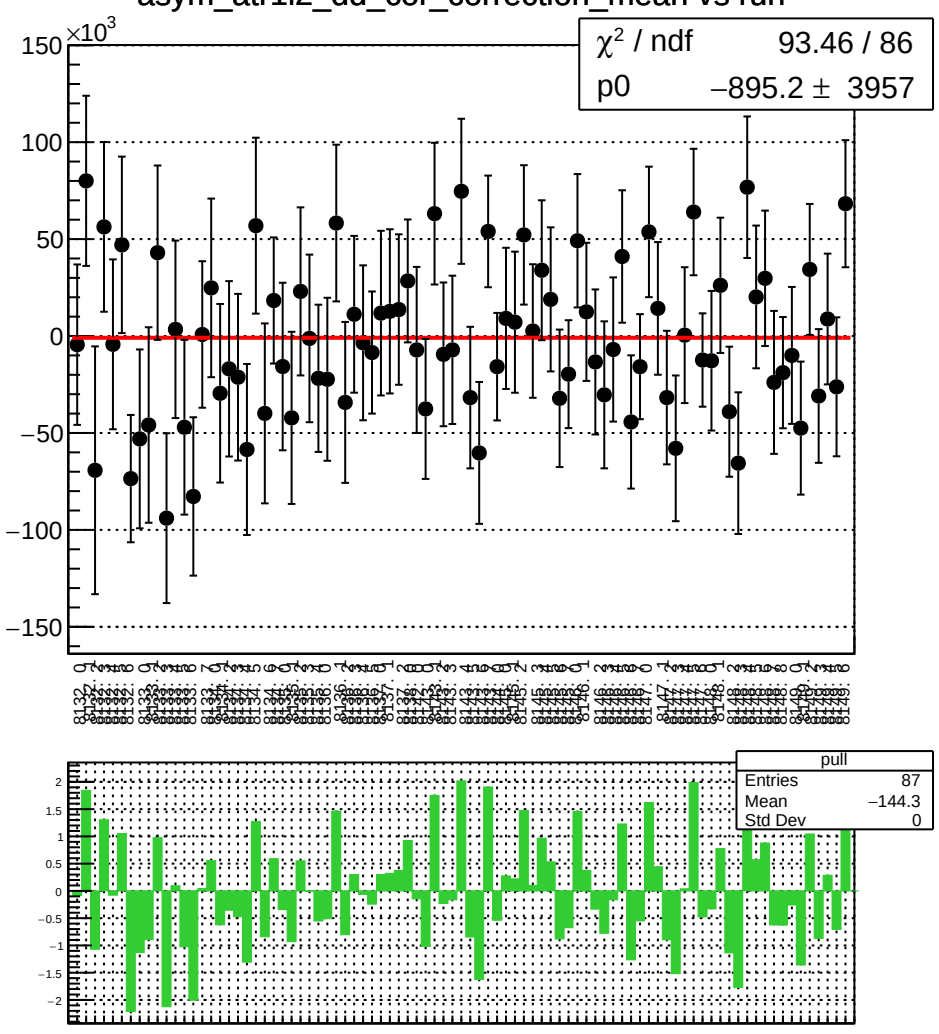

pull1D
Entries 87
Mean −0.01458
Std Dev 1.036

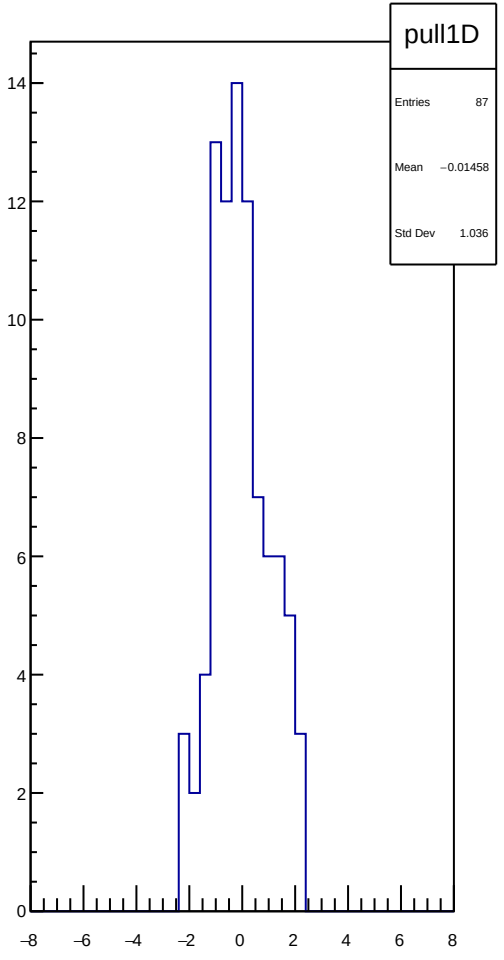

asym_atr1l2_dd_reg_correction_rms vs run
χ² / ndf 2.199e+04 / 86
p0 3645 ± 2.798
6000
5500
5000
4500
4000
3500
3000

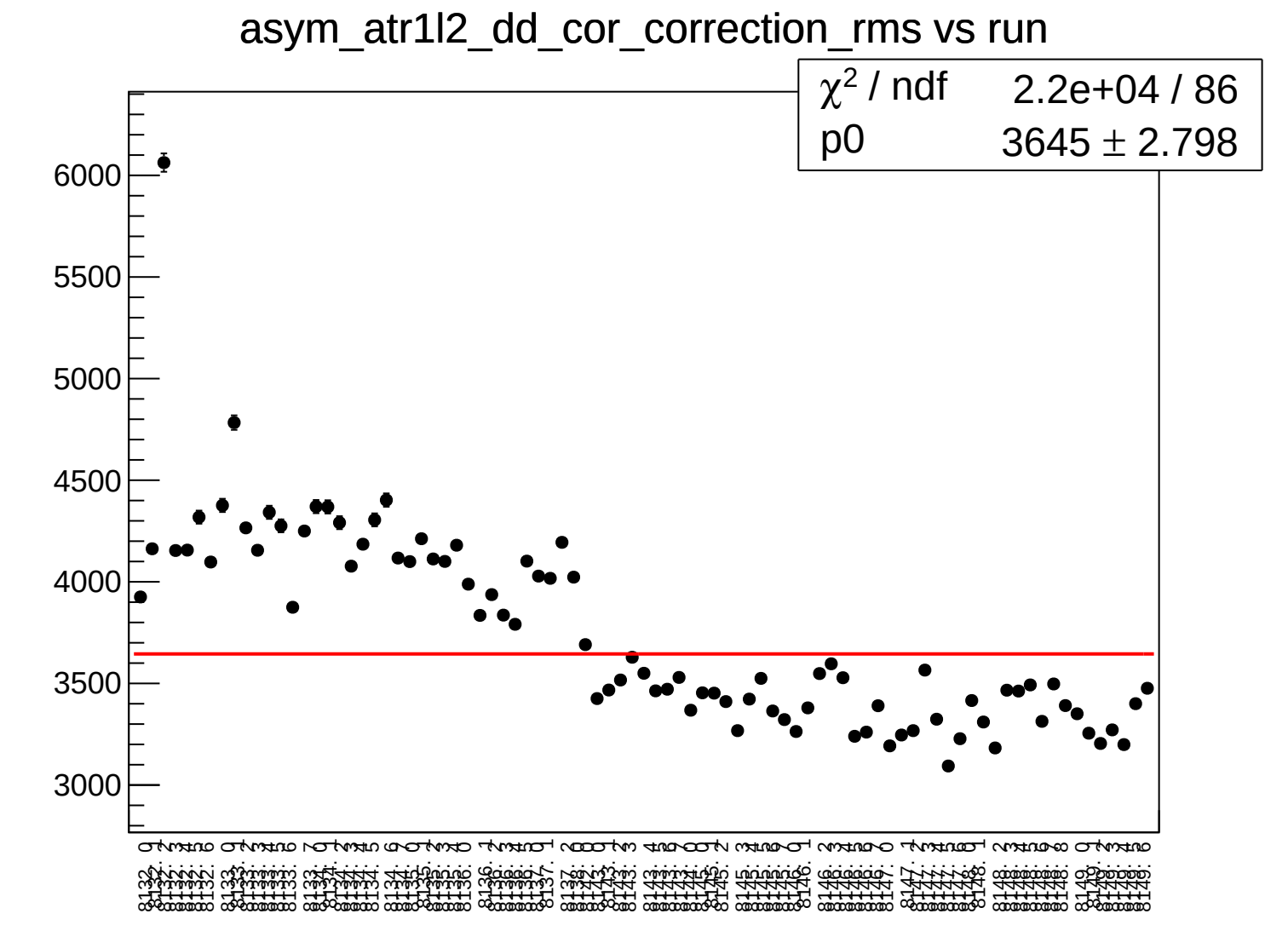

cor_asym_atr1l2_dd_mean vs run
χ² / ndf 79.86 / 86
p0 −752.1± 1909
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 175.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

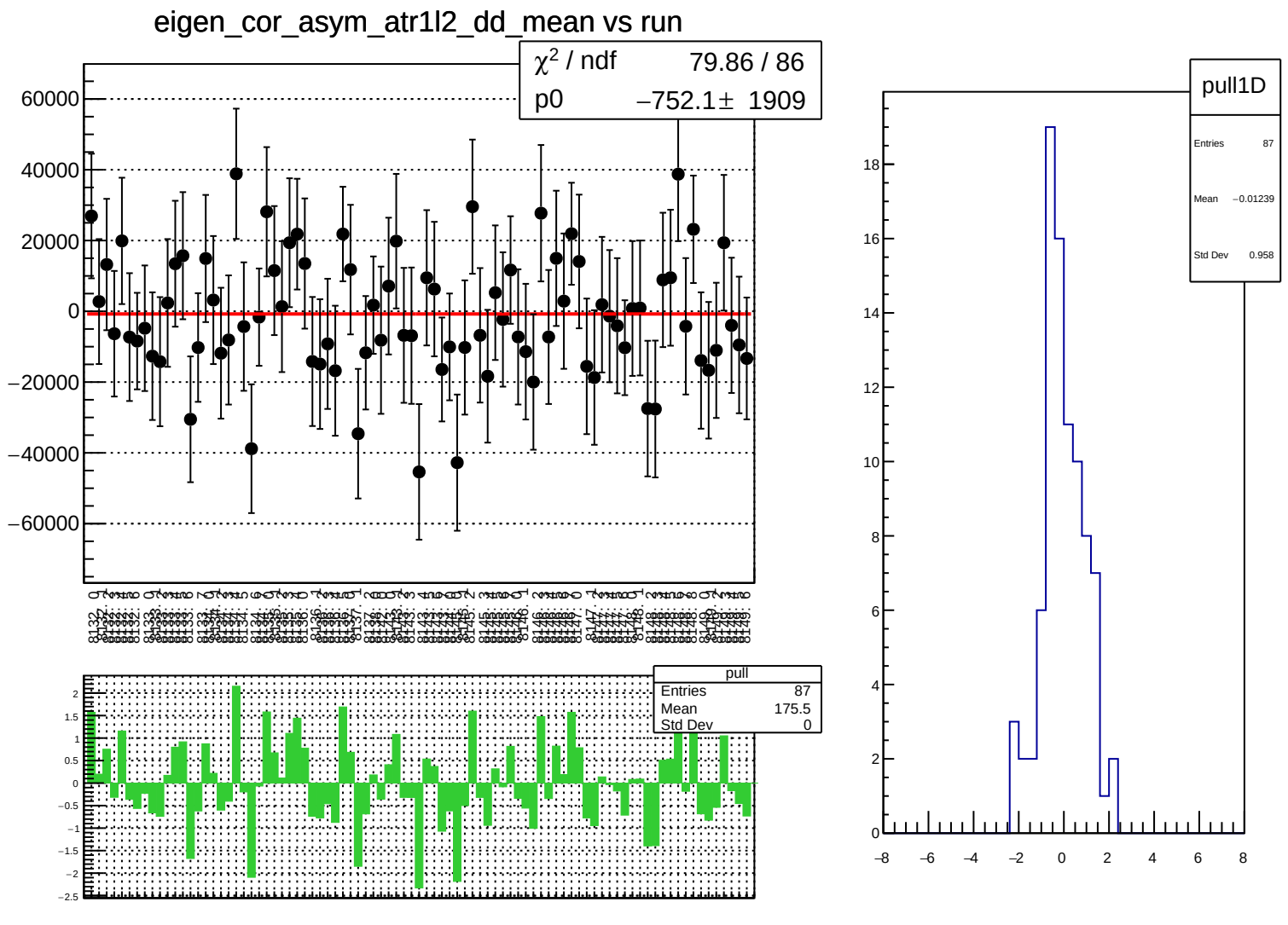

pull1D
Entries 87
Mean −0.01239
Std Dev 0.958
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

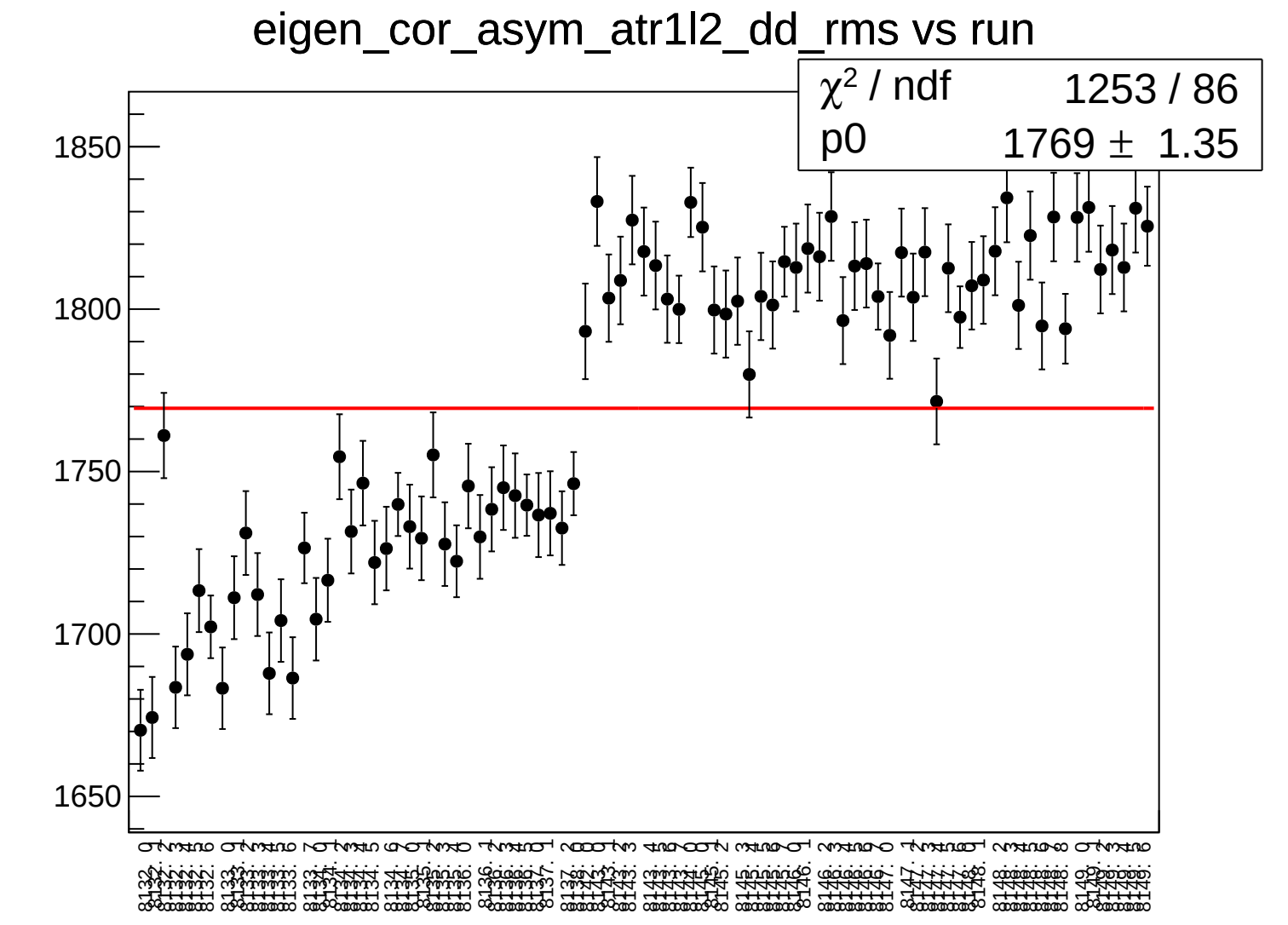

cor_asym_atr1l2_dd_rms vs run
χ² / ndf 1253 / 86
p0 1769 ± 1.35
1850
1800
1750
1700
1650

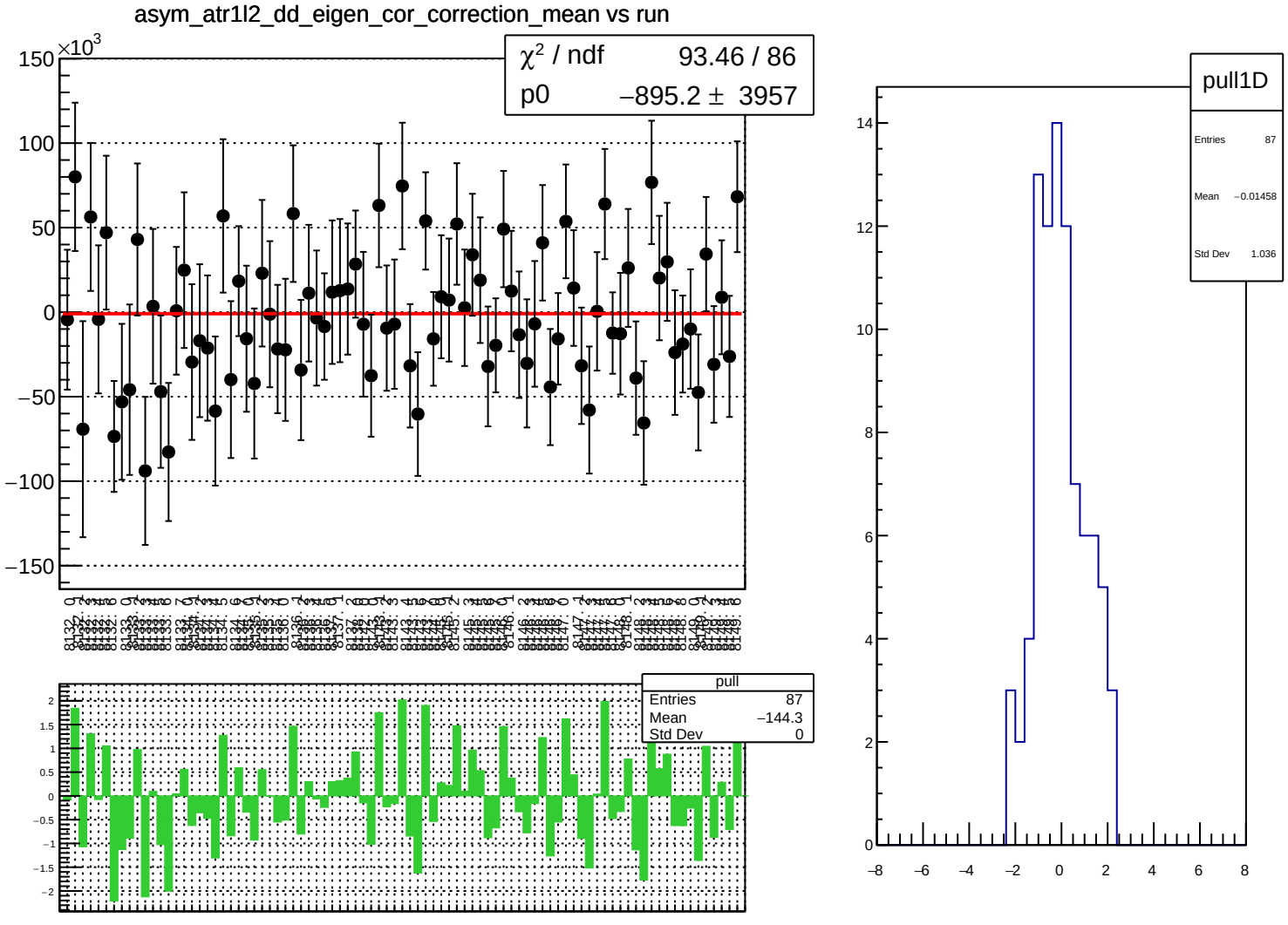

asym_atr1l2_dd_cor_correction_mean vs run
χ² / ndf 93.46 / 86
p0 −895.2 ± 3957
×10³
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean −144.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

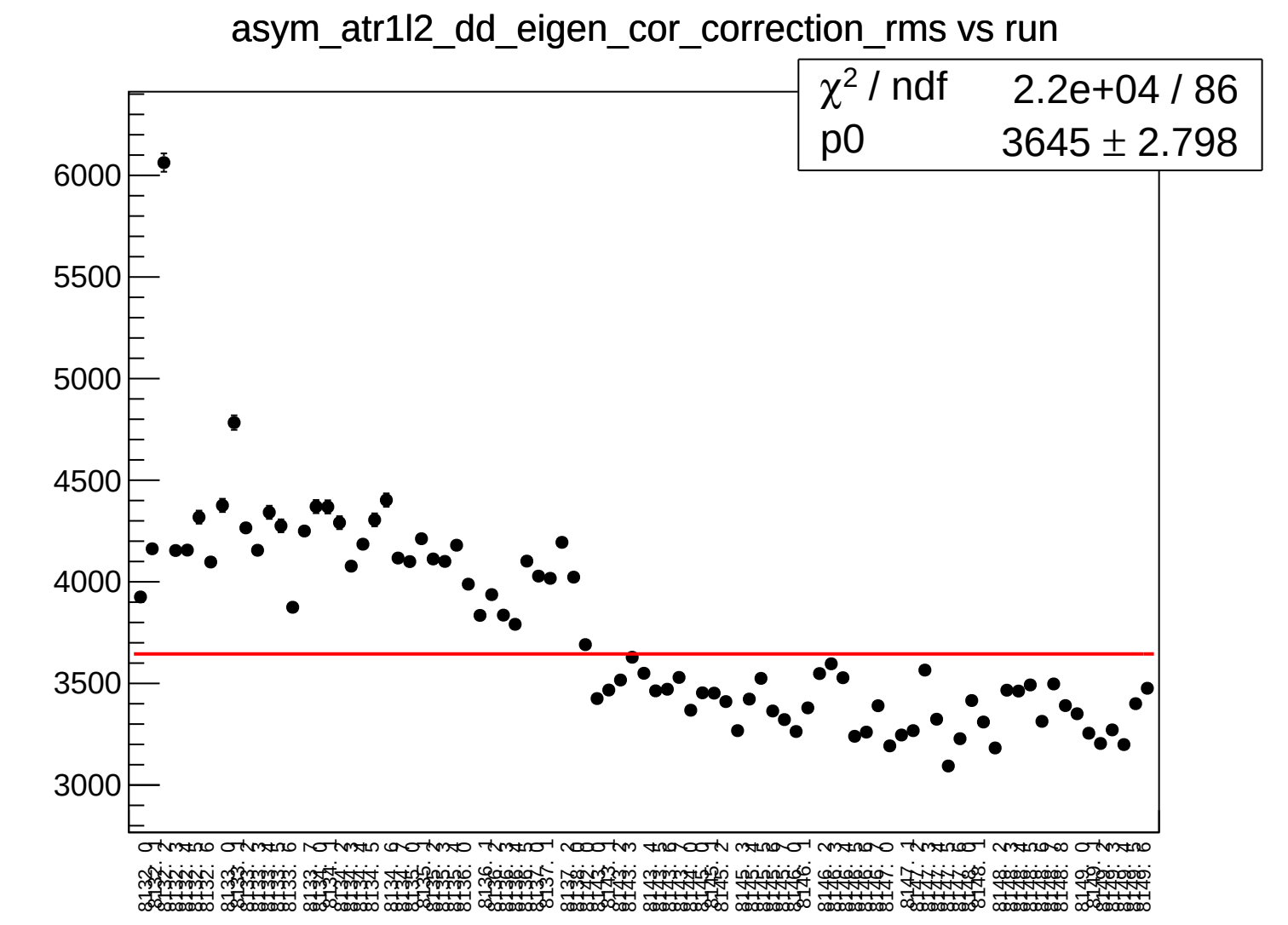

pull1D
Entries 87
Mean −0.01458
Std Dev 1.036
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

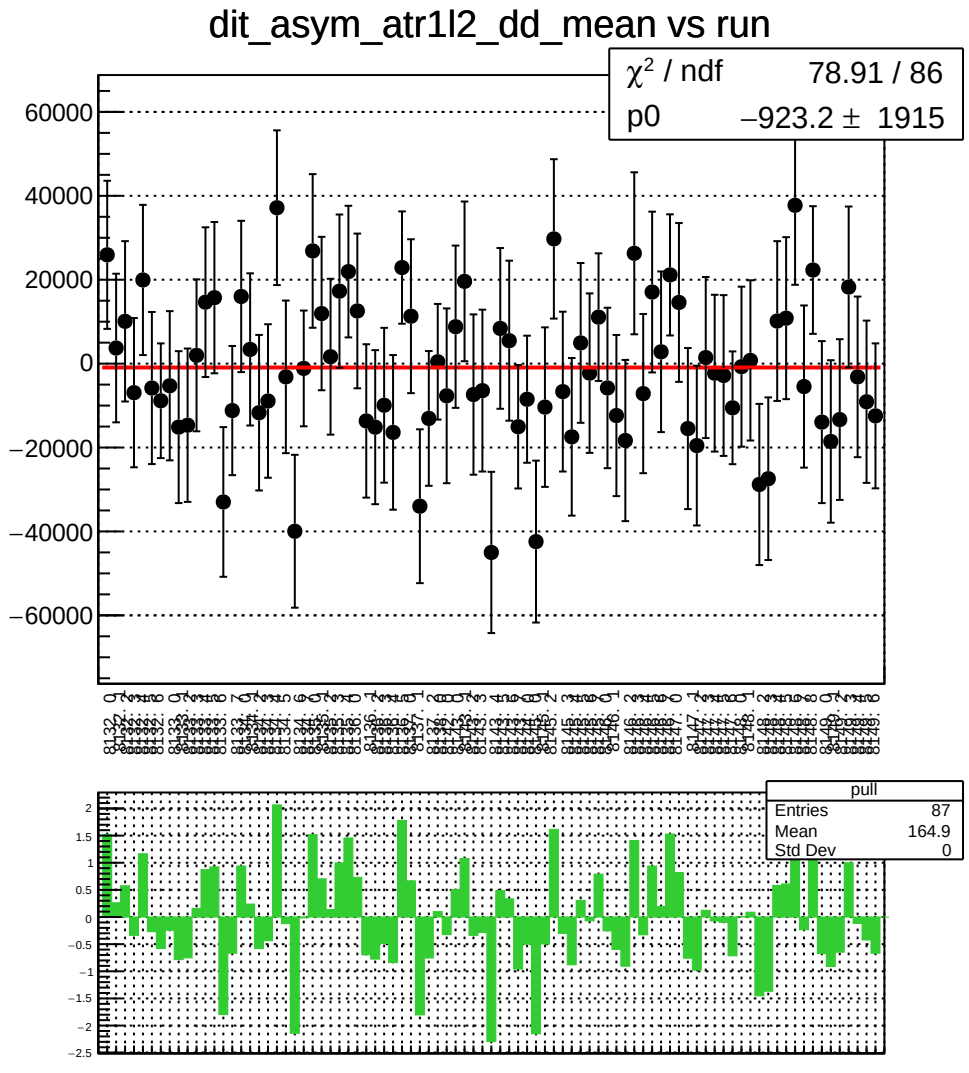

asym_atr1l2_dd_cor_correction_rms vs run
χ² / ndf 2.2e+04 / 86
p0 3645 ± 2.798
6000
5500
5000
4500
4000
3500
3000

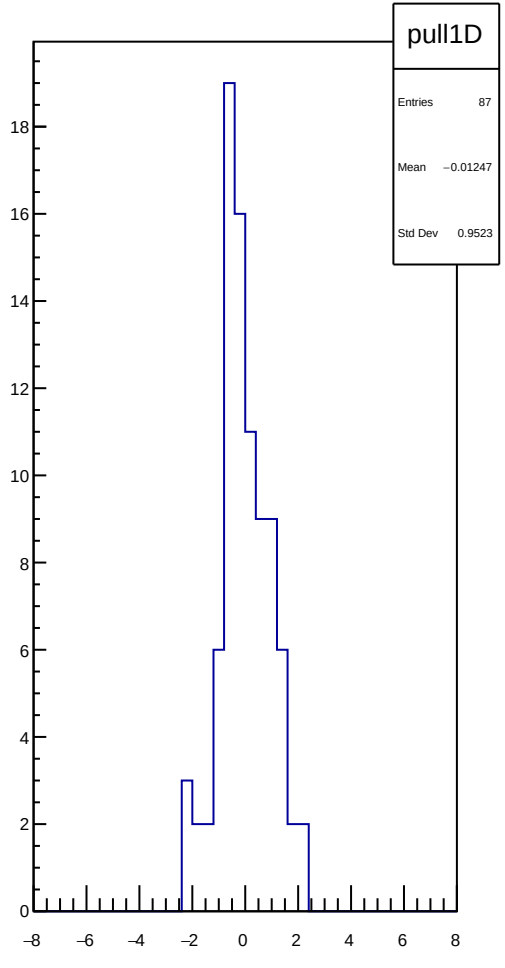

eigen_cor_asym_atr1l2_dd_mean vs run
χ² / ndf 79.86 / 86
p0 −752.1± 1909
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 175.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 87
Mean −0.01239
Std Dev 0.958
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

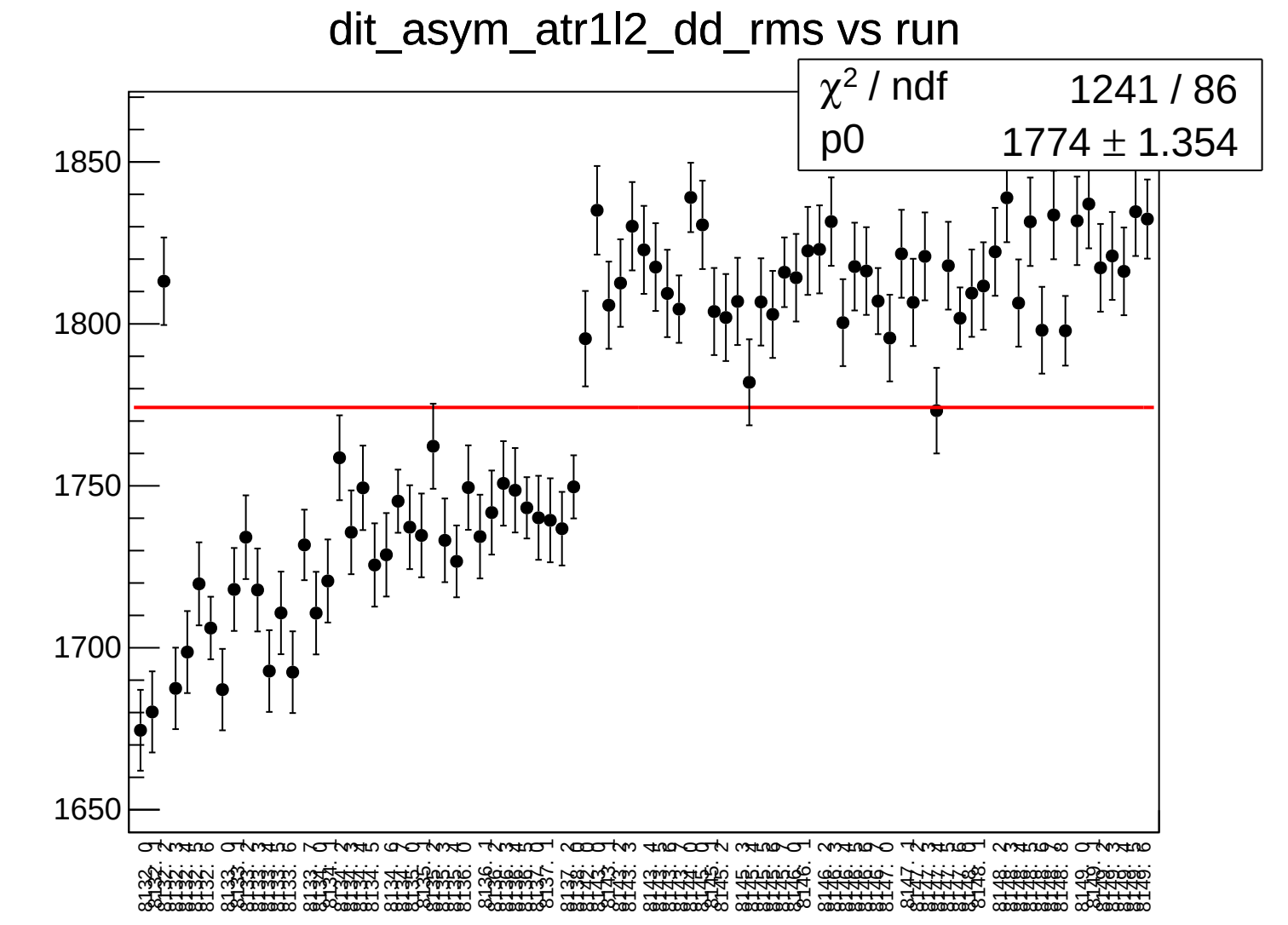

eigen_cor_asym_atr1l2_dd_rms vs run
χ² / ndf 1253 / 86
p0 1769 ± 1.35
1850
1800
1750
1700
1650

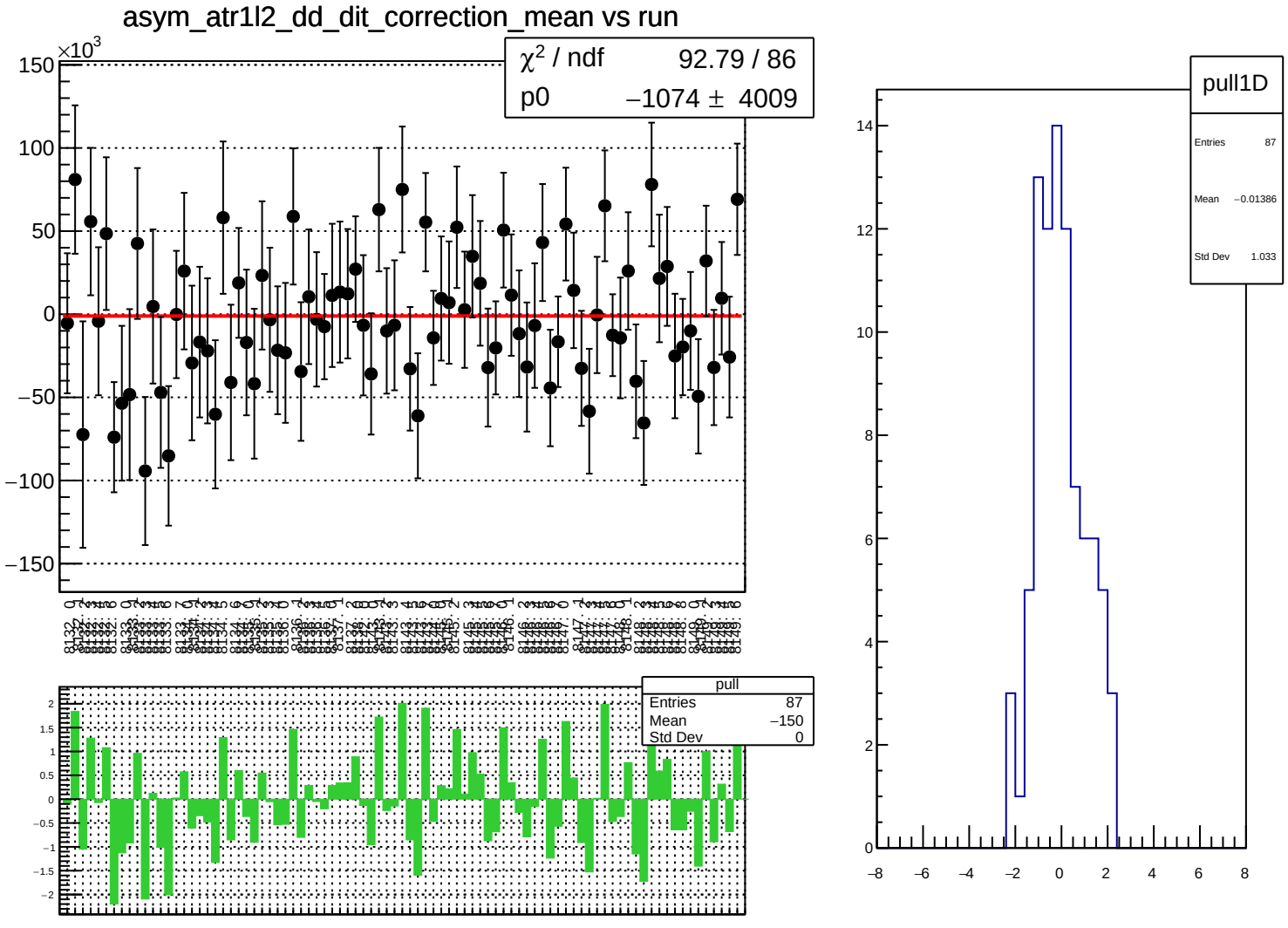

asym_atr1l2_dd_eigen_cor_correction_mean vs run
χ² / ndf 93.46 / 86
p0 −895.2 ± 3957
×10³
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean −144.3
Std Dev 0
pull1D
Entries 87
Mean −0.01458
Std Dev 1.036

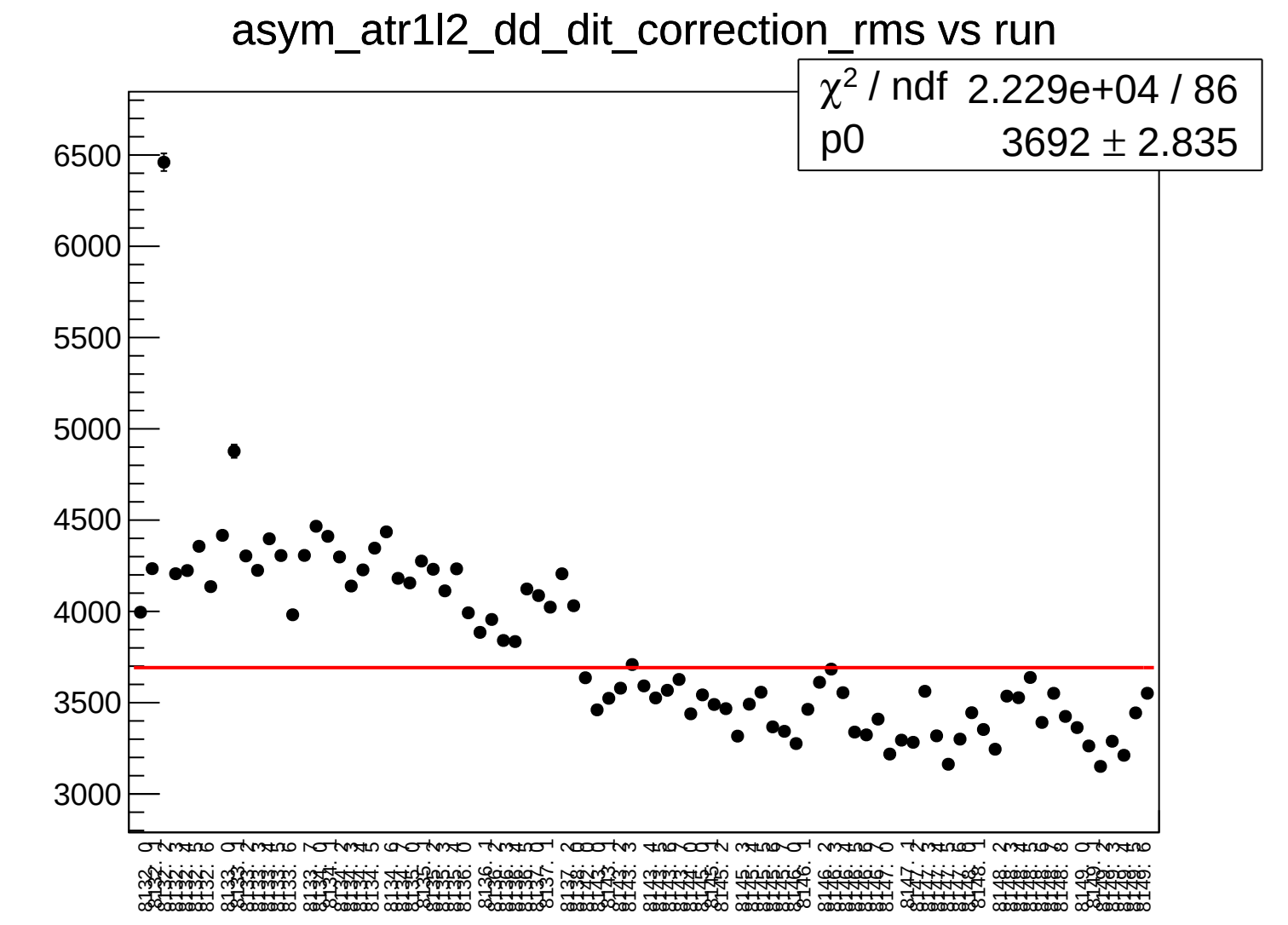

asym_atr1l2_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.2e+04 / 86
p0 3645 ± 2.798
6000
5500
5000
4500
4000
3500
3000

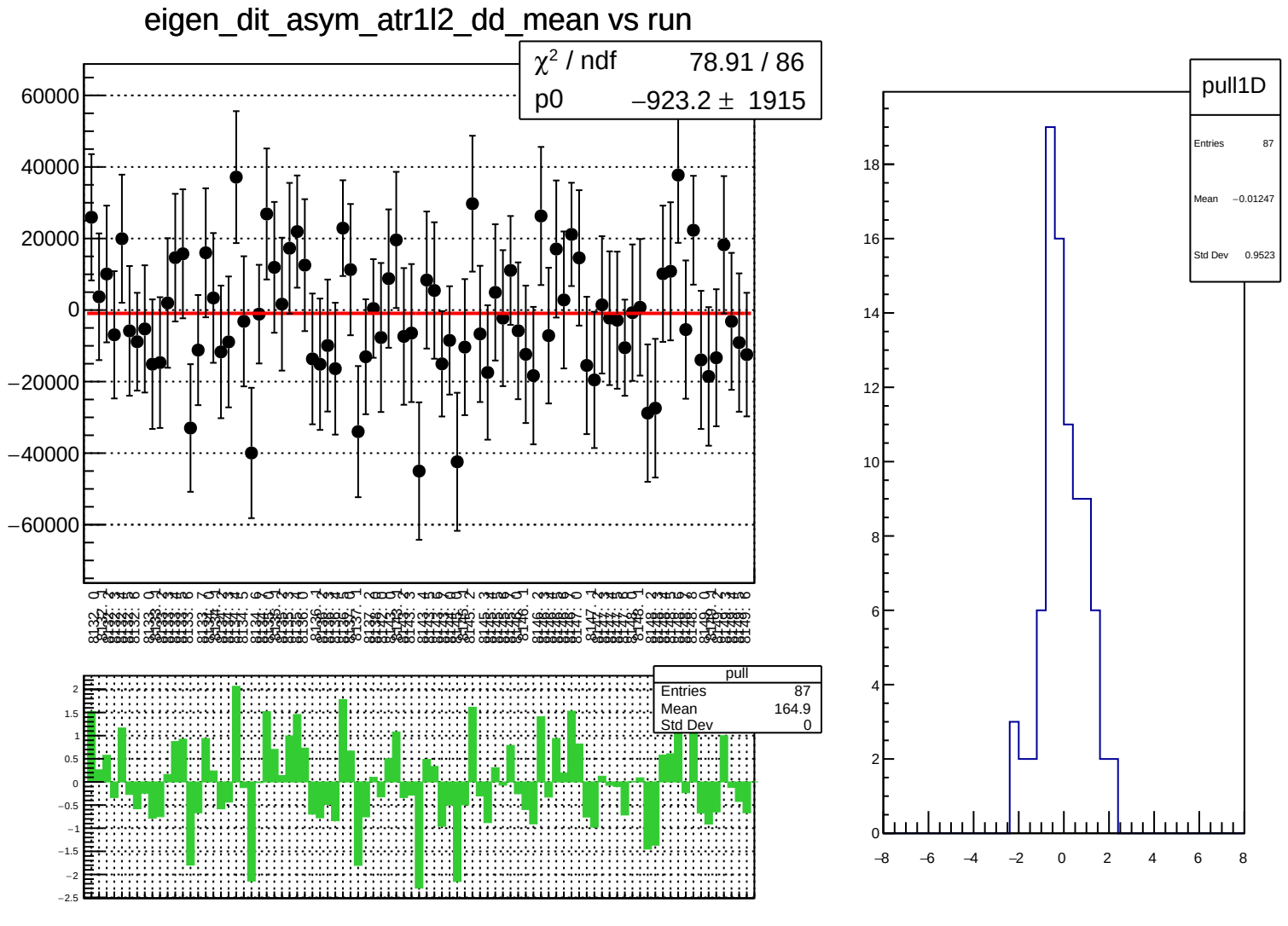

dit_asym_atr1l2_dd_mean vs run
χ² / ndf 78.91 / 86
p0 −923.2 ± 1915
pull
Entries 87
Mean 164.9
Std Dev 0

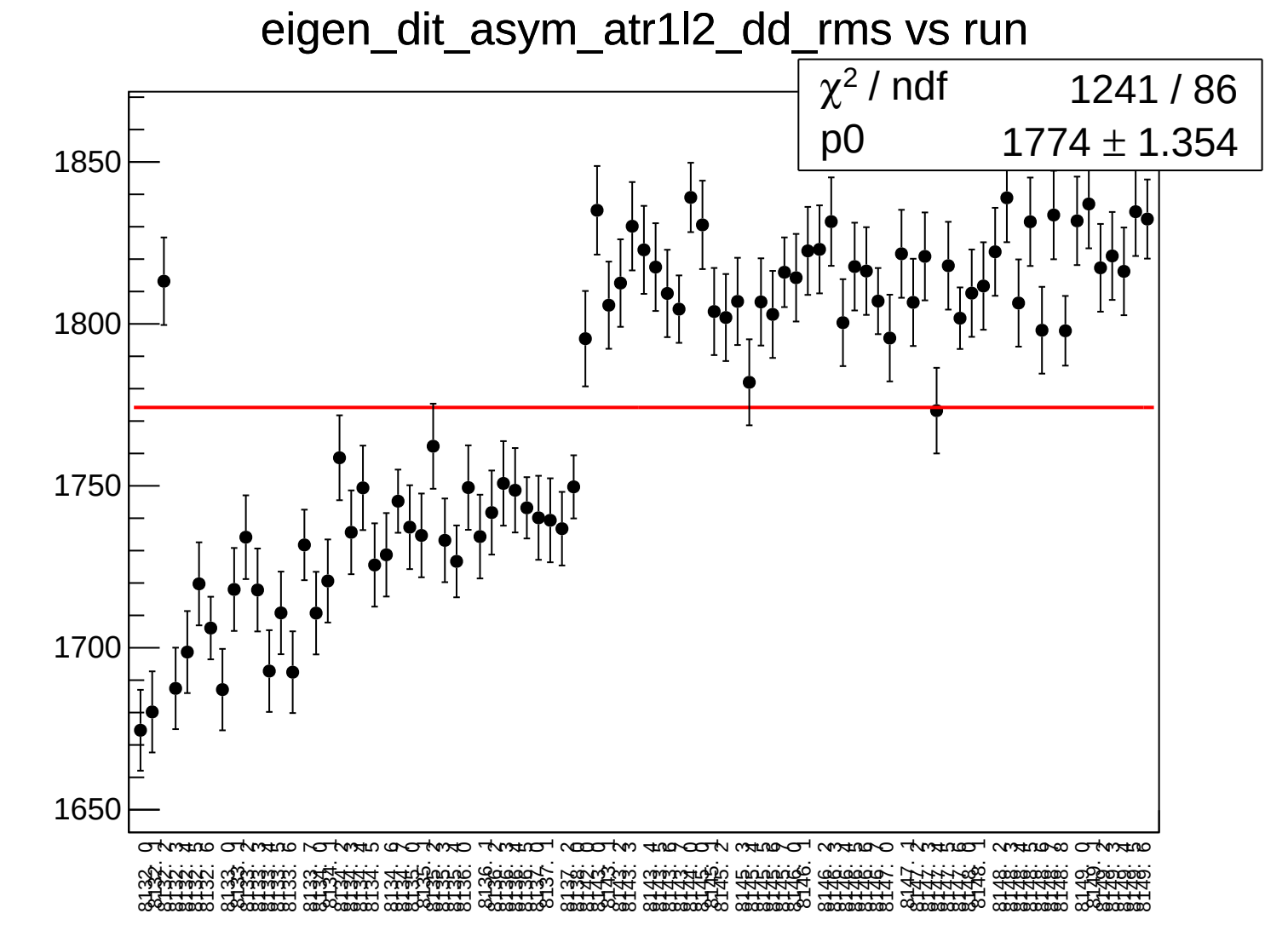

pull1D
Entries 87
Mean −0.01247
Std Dev 0.9523

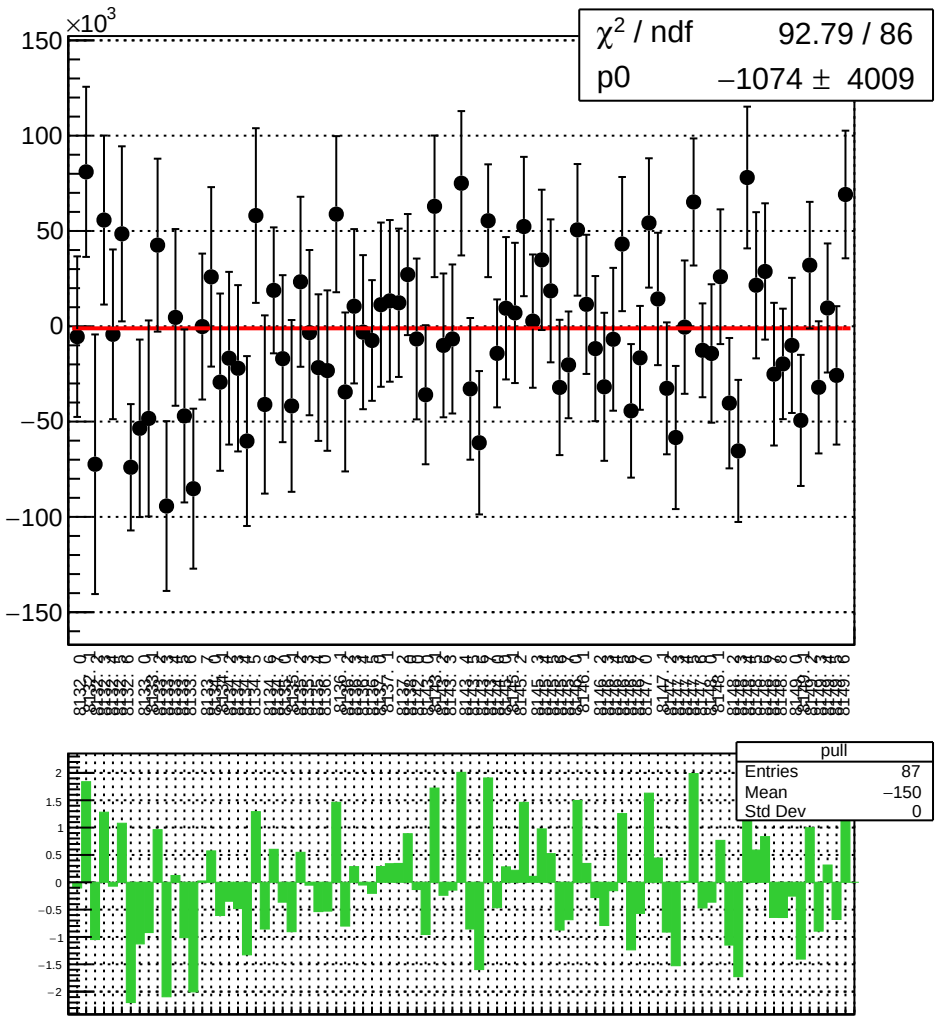

dit_asym_atr1l2_dd_rms vs run
χ² / ndf 1241 / 86
p0 1774 ± 1.354
1850
1800
1750
1700
1650

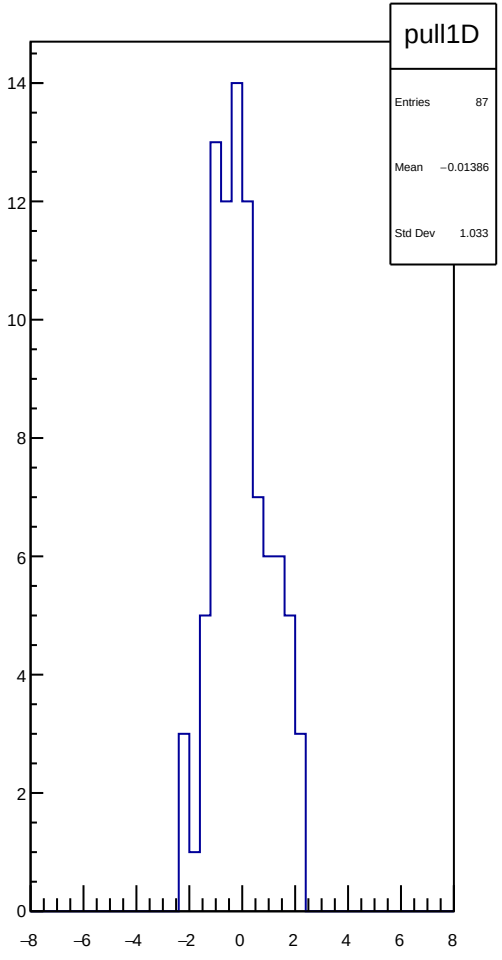

asym_atr1l2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 92.79 / 86
p0 −1074 ± 4009
pull
Entries 87
Mean −150
Std Dev 0
pull1D
Entries 87
Mean −0.01386
Std Dev 1.033

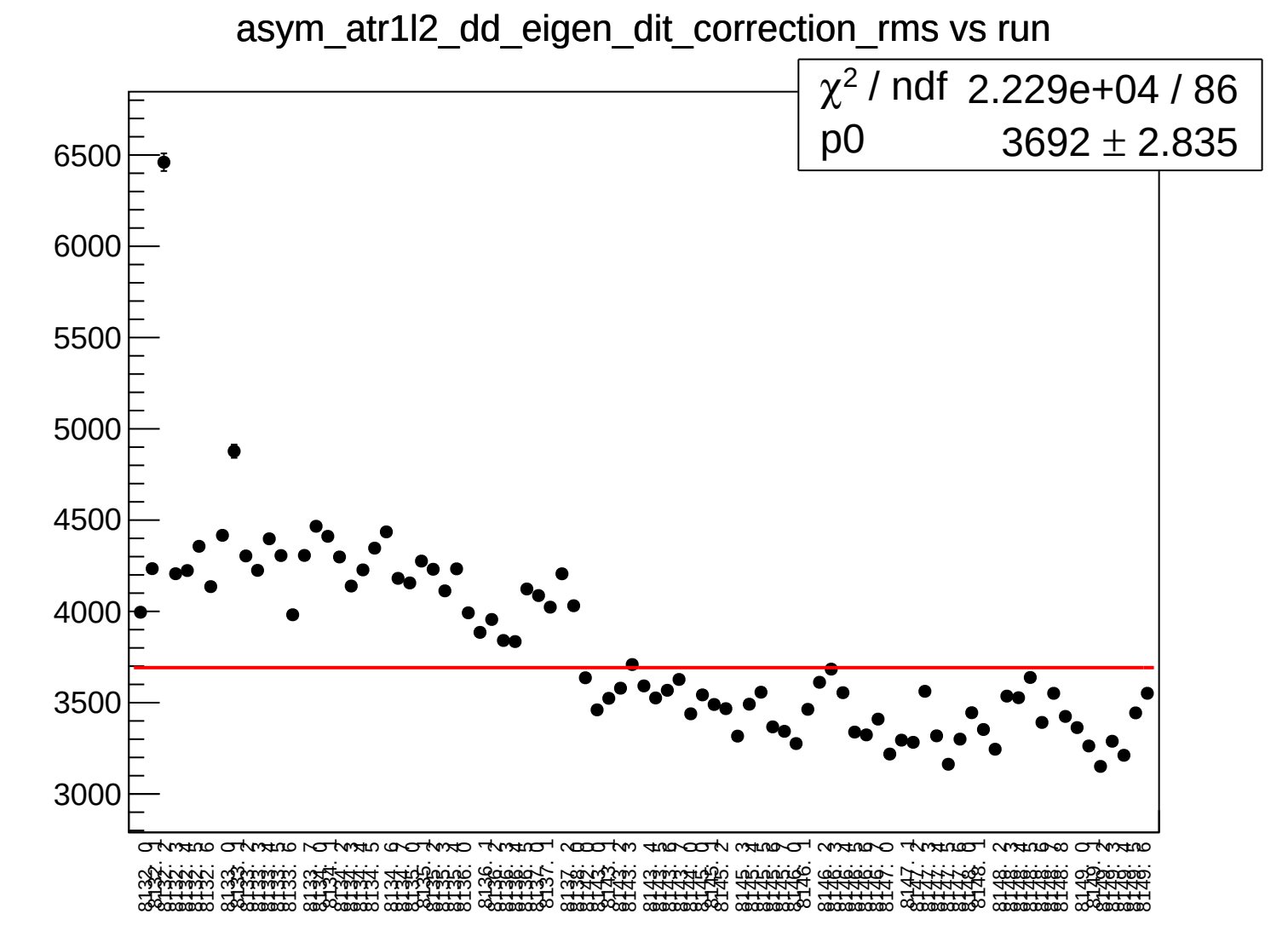

asym_atr1l2_dd_dit_correction_rms vs run
χ² / ndf 2.229e+04 / 86
p0 3692 ± 2.835
6500
6000
5500
5000
4500
4000
3500
3000

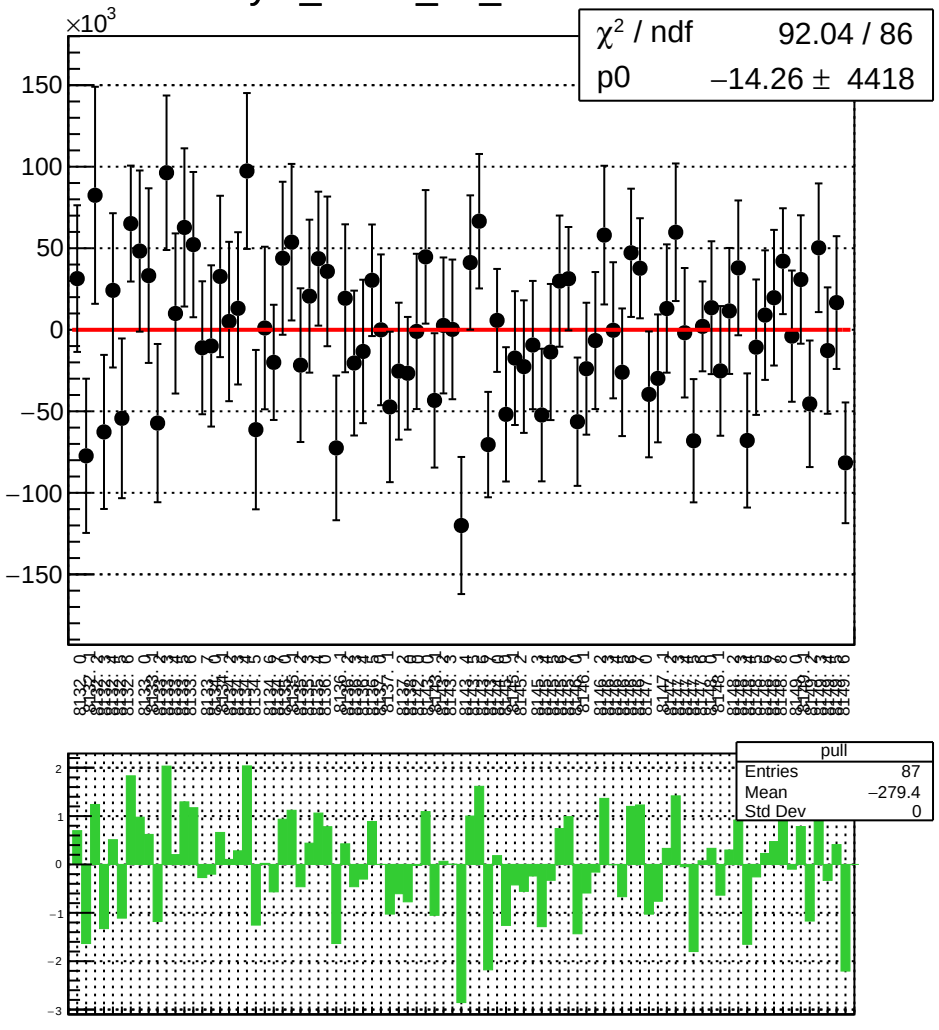

eigen_dit_asym_atr1l2_dd_mean vs run
χ² / ndf 78.91 / 86
p0 −923.2 ± 1915
pull
Entries 87
Mean 164.9
Std Dev 0
pull1D
Entries 87
Mean −0.01247
Std Dev 0.9523

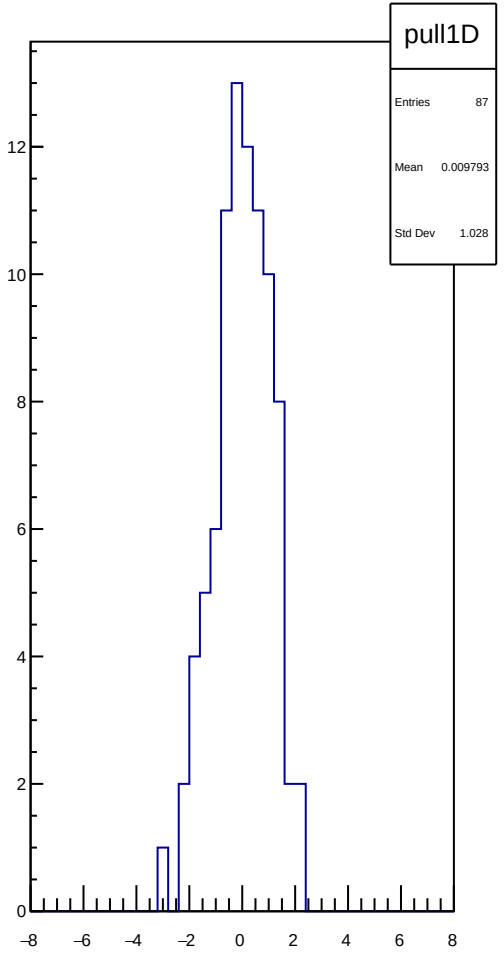

eigen_dit_asym_atr1l2_dd_rms vs run
χ² / ndf 1241 / 86
p0 1774 ± 1.354
1850
1800
1750
1700
1650

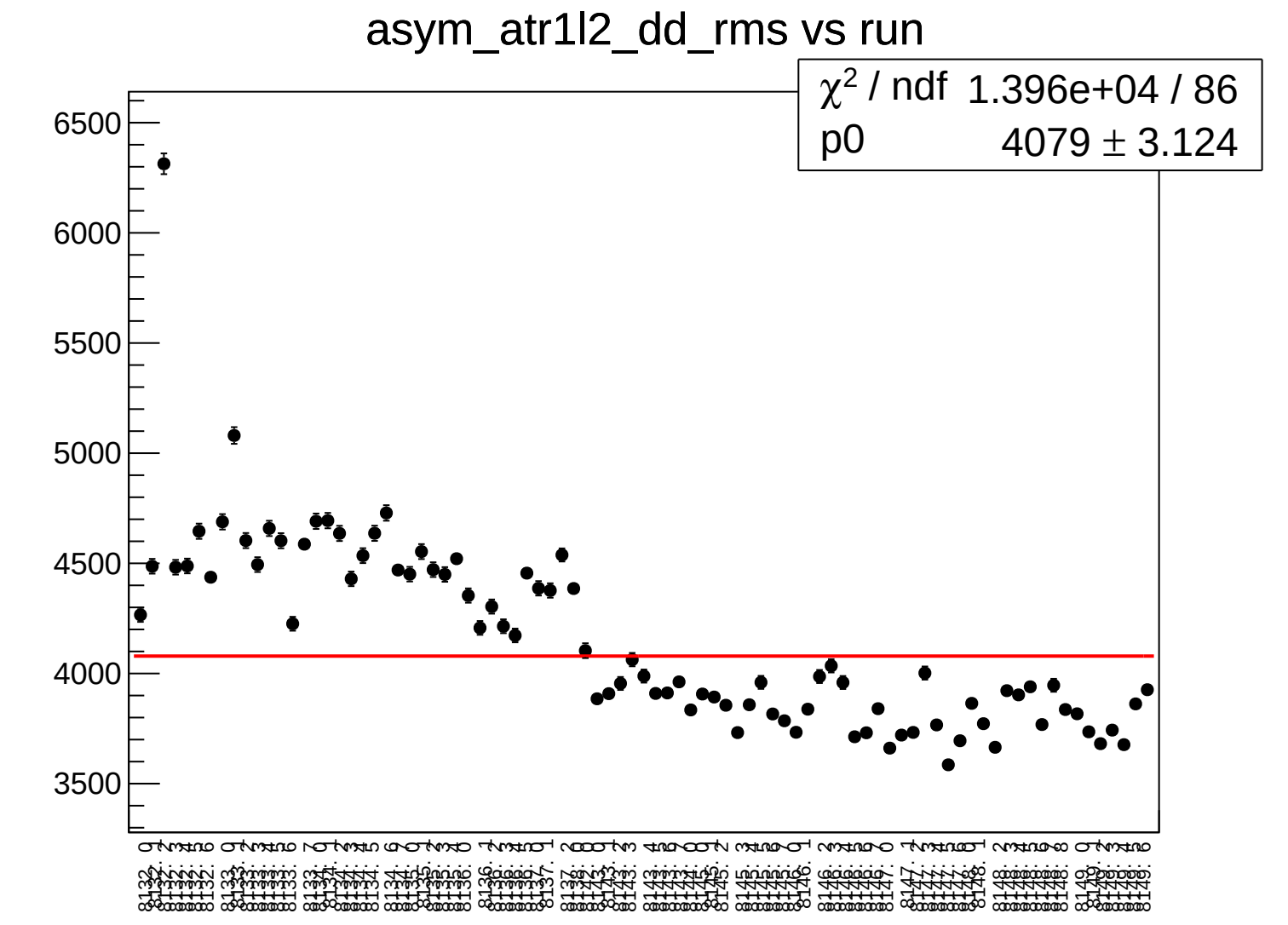

asym_atr1l2_dd_eigen_dit_correction_mean vs run
χ² / ndf 92.79 / 86
p0 −1074 ± 4009
×10³
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean −150
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

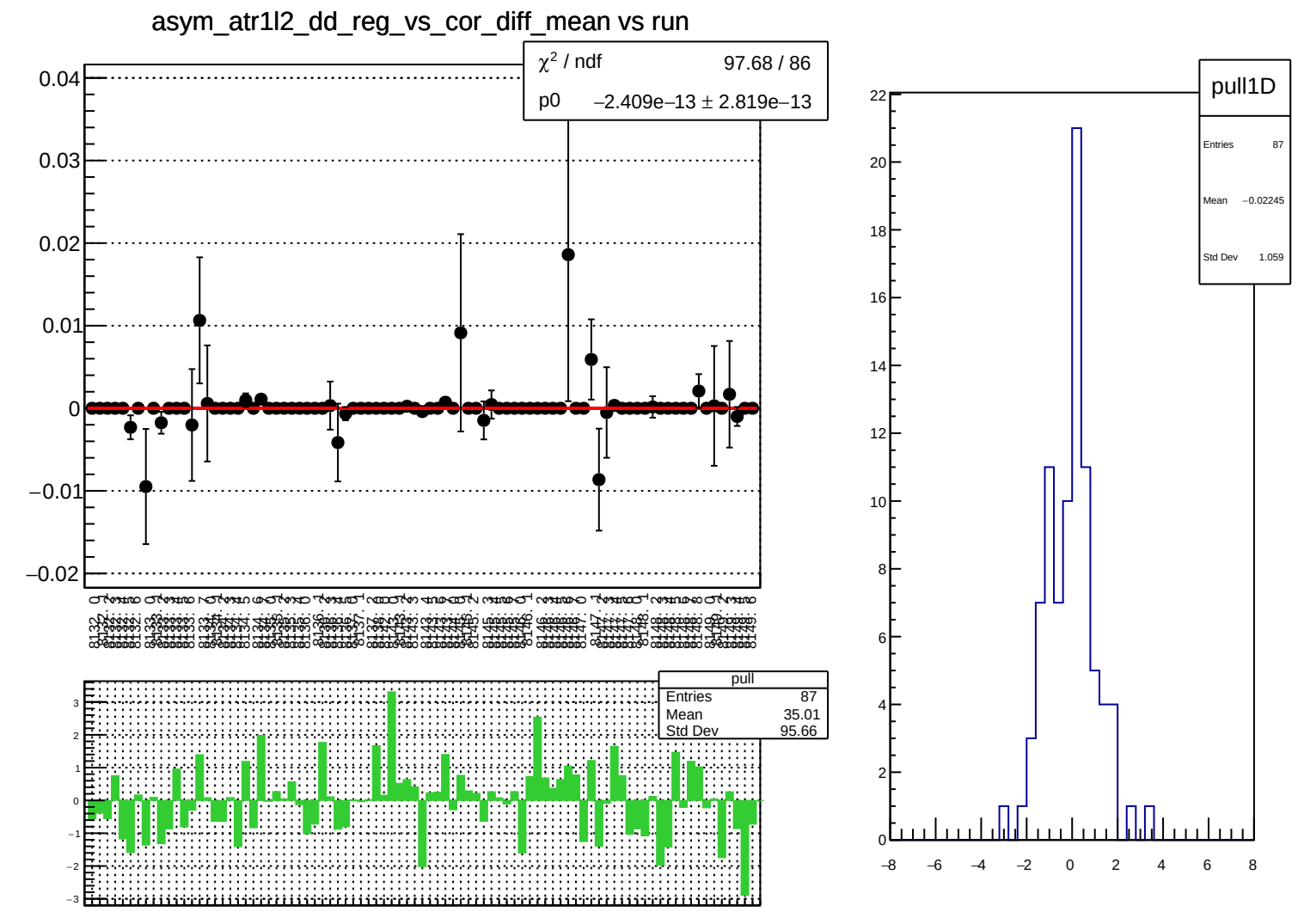

pull1D
Entries 87
Mean −0.01386
Std Dev 1.033
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

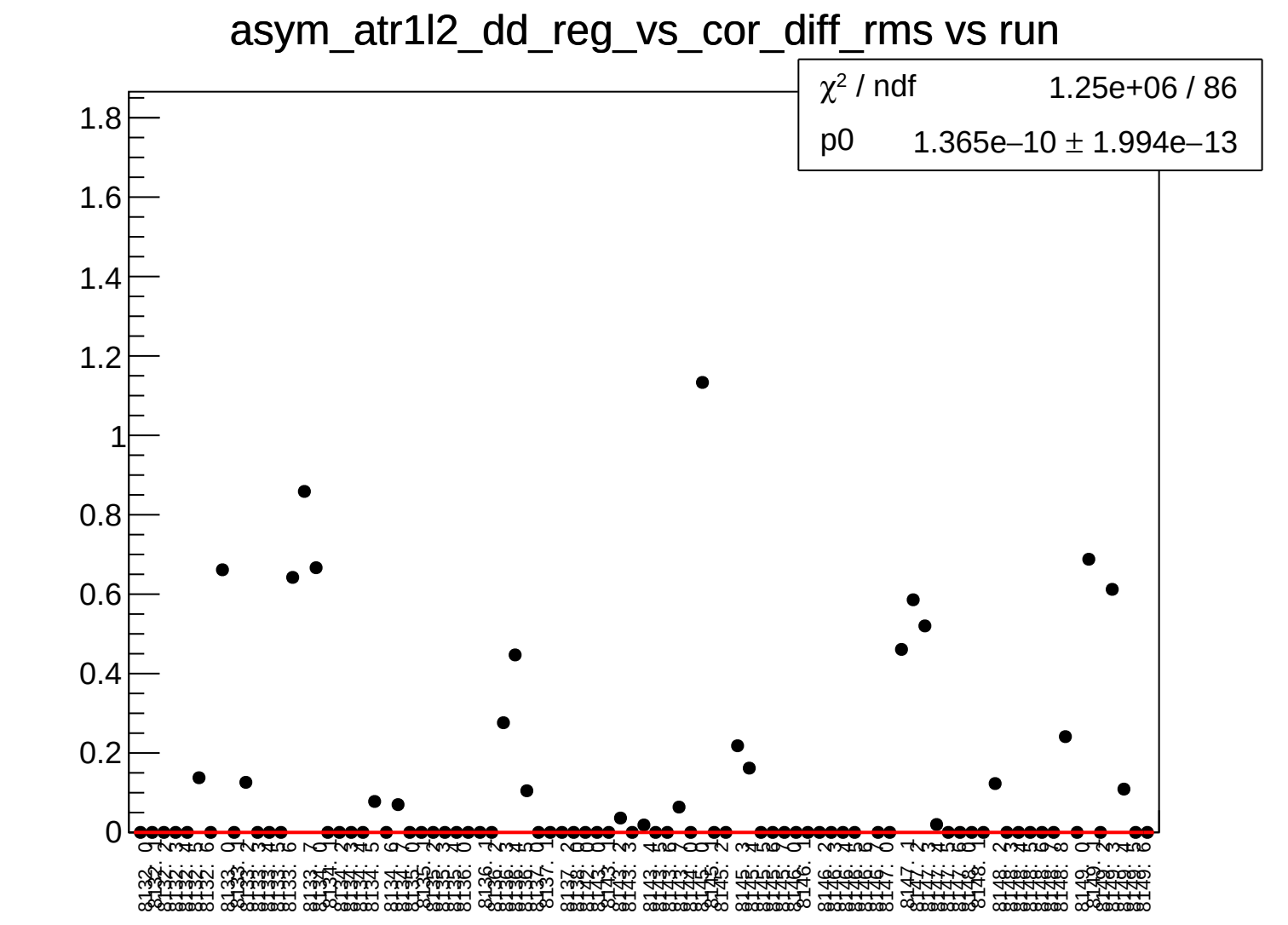

asym_atr1l2_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.229e+04 / 86
p0 3692 ± 2.835
6500
6000
5500
5000
4500
4000
3500
3000

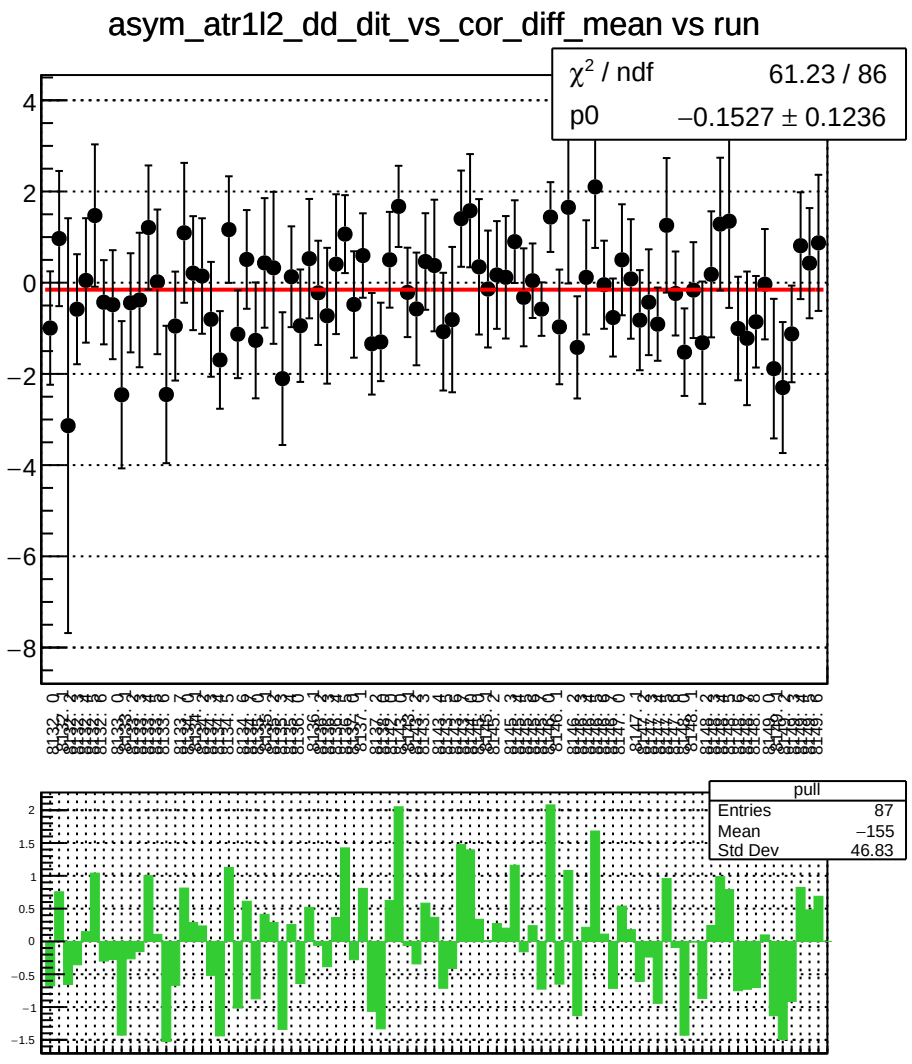

asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 92.04 / 86
p0 −14.26 ± 4418
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean −279.4
Std Dev 0
2
1
0
−1
−2
−3

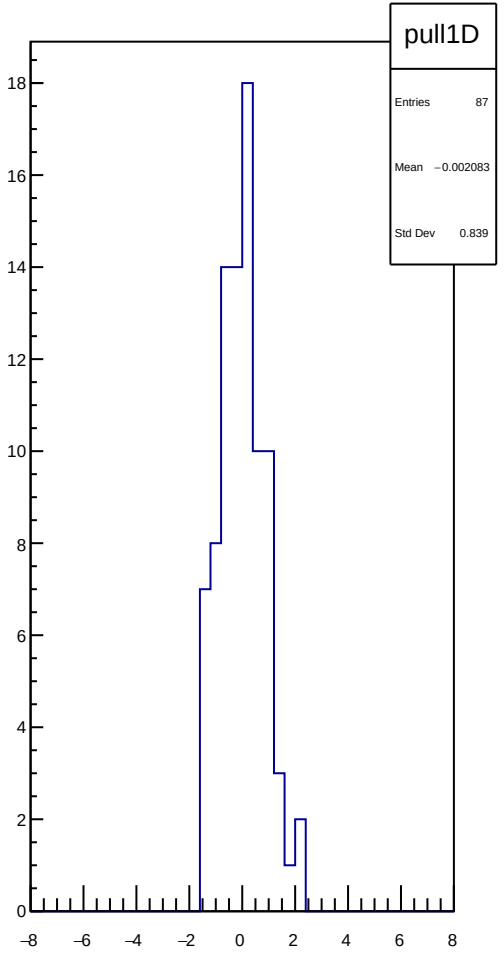

pull1D
Entries 87
Mean 0.009793
Std Dev 1.028
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

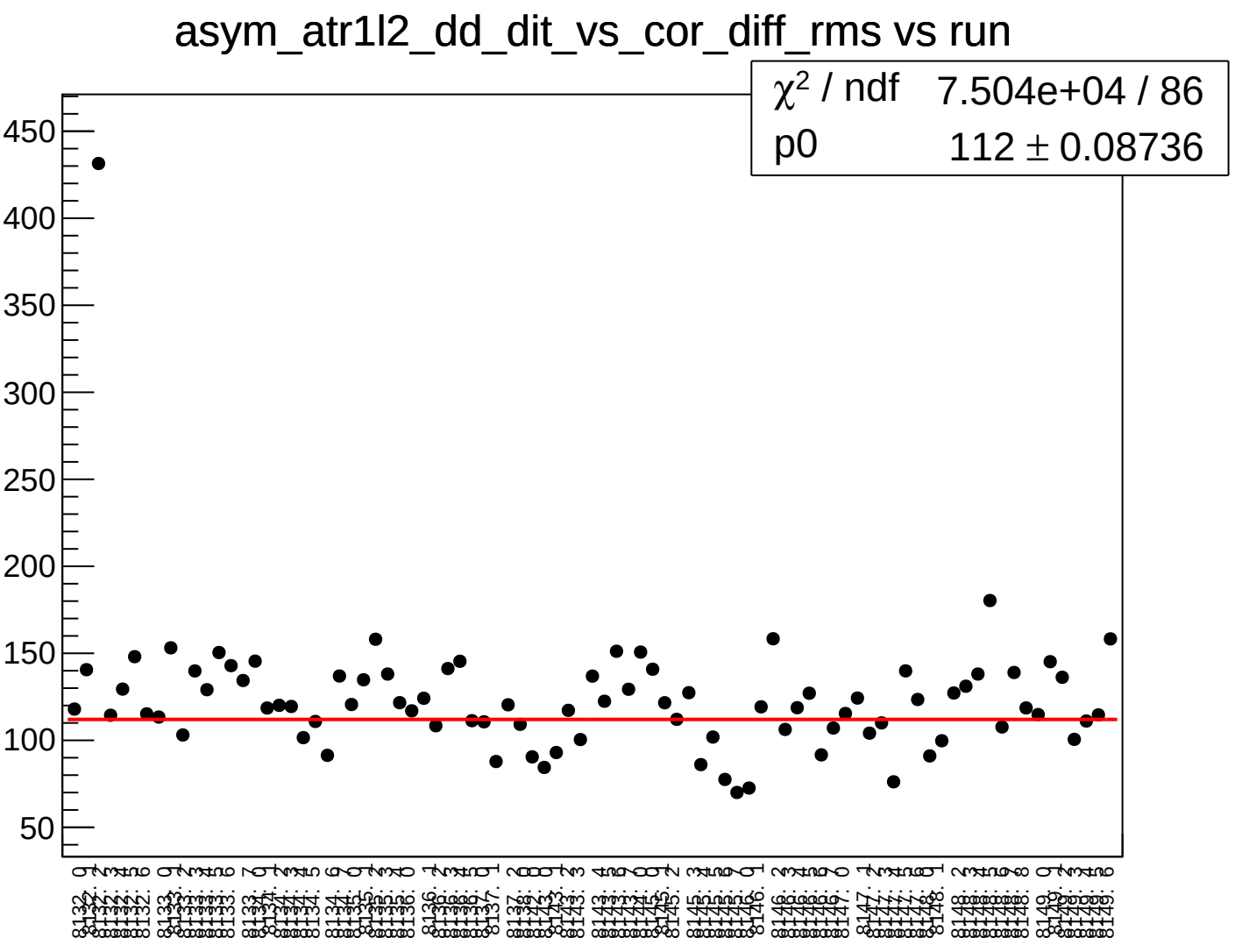

asym_atr1l2_dd_rms vs run
χ² / ndf 1.396e+04 / 86
p0 4079 ± 3.124
6500
6000
5500
5000
4500
4000
3500

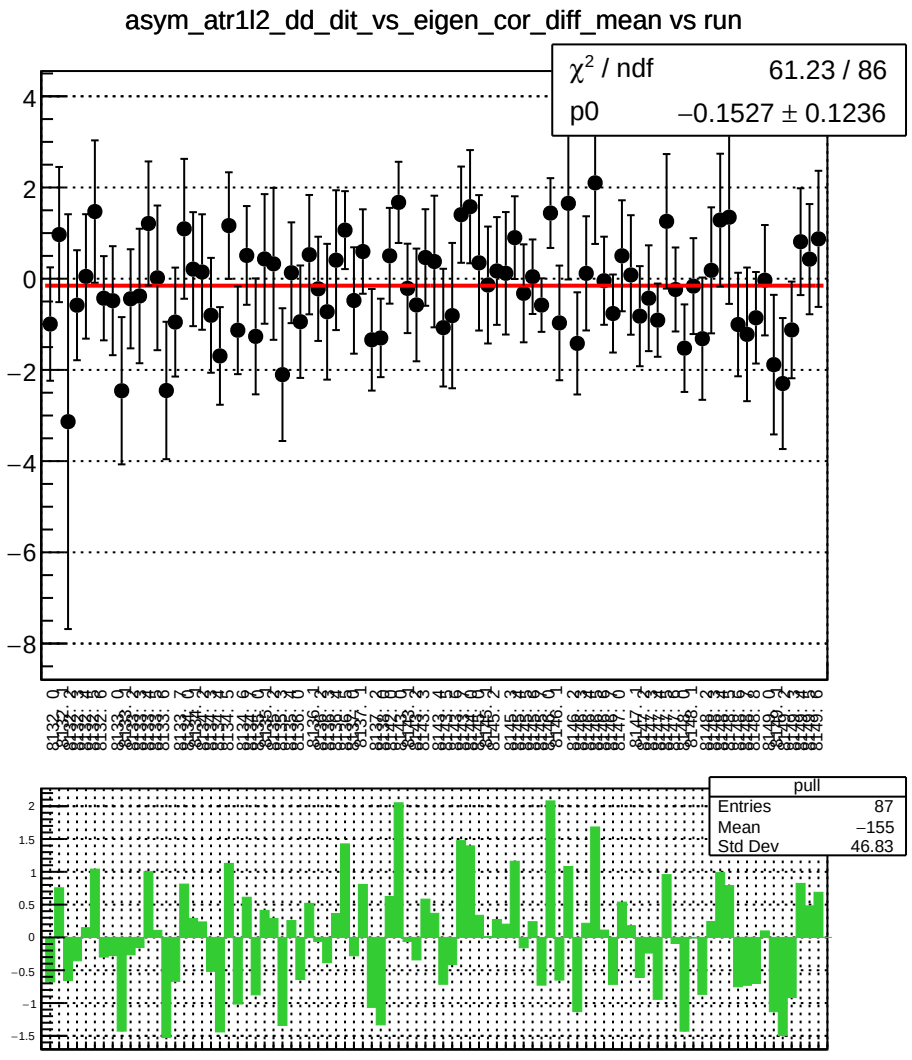

asym_atr1l2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 97.68 / 86
p0 −2.409e−13 ± 2.819e−13
0.04
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 87
Mean 35.01
Std Dev 95.66
3
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean −0.02245
Std Dev 1.059
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

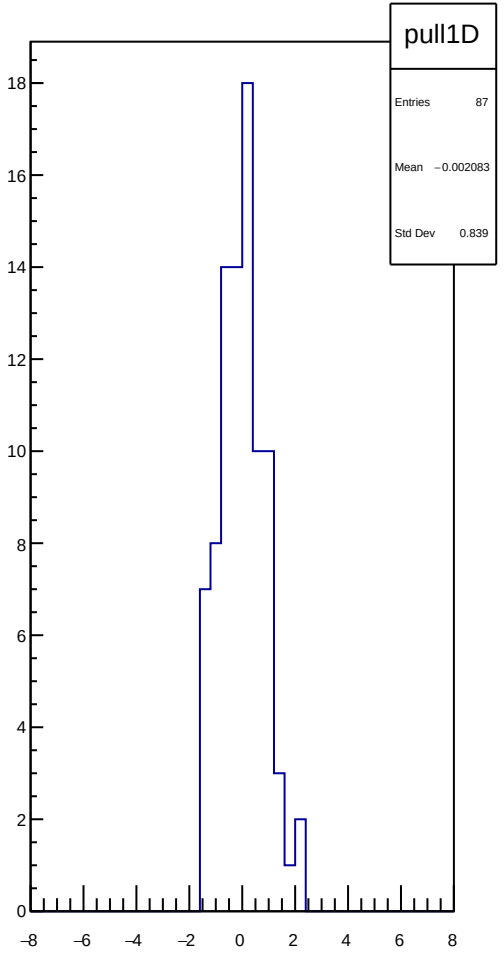

asym_atr1l2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.25e+06 / 86
p0 1.365e−10 ± 1.994e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

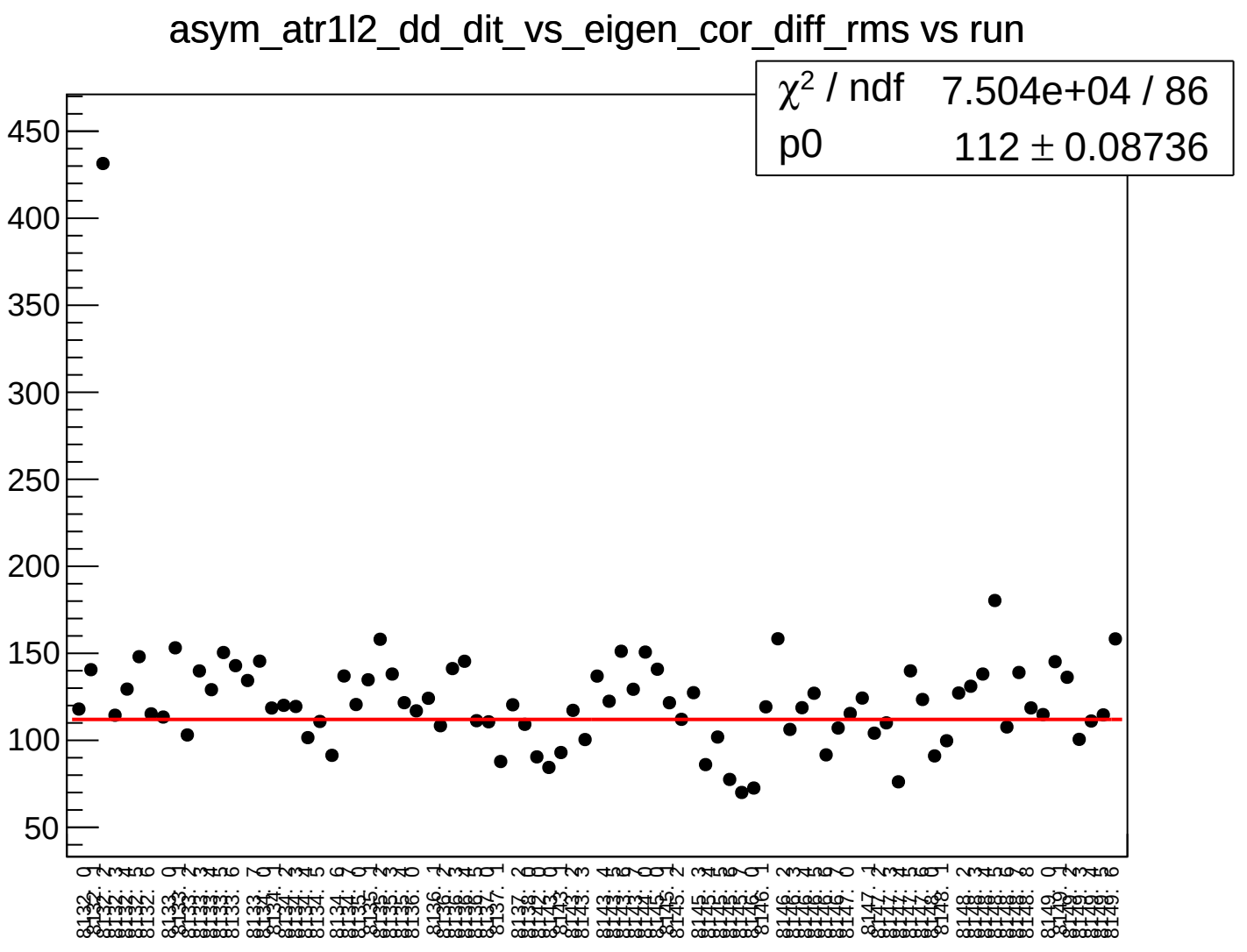

asym_atr1l2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 61.23 / 86
p0 −0.1527 ± 0.1236
pull
Entries 87
Mean −155
Std Dev 46.83

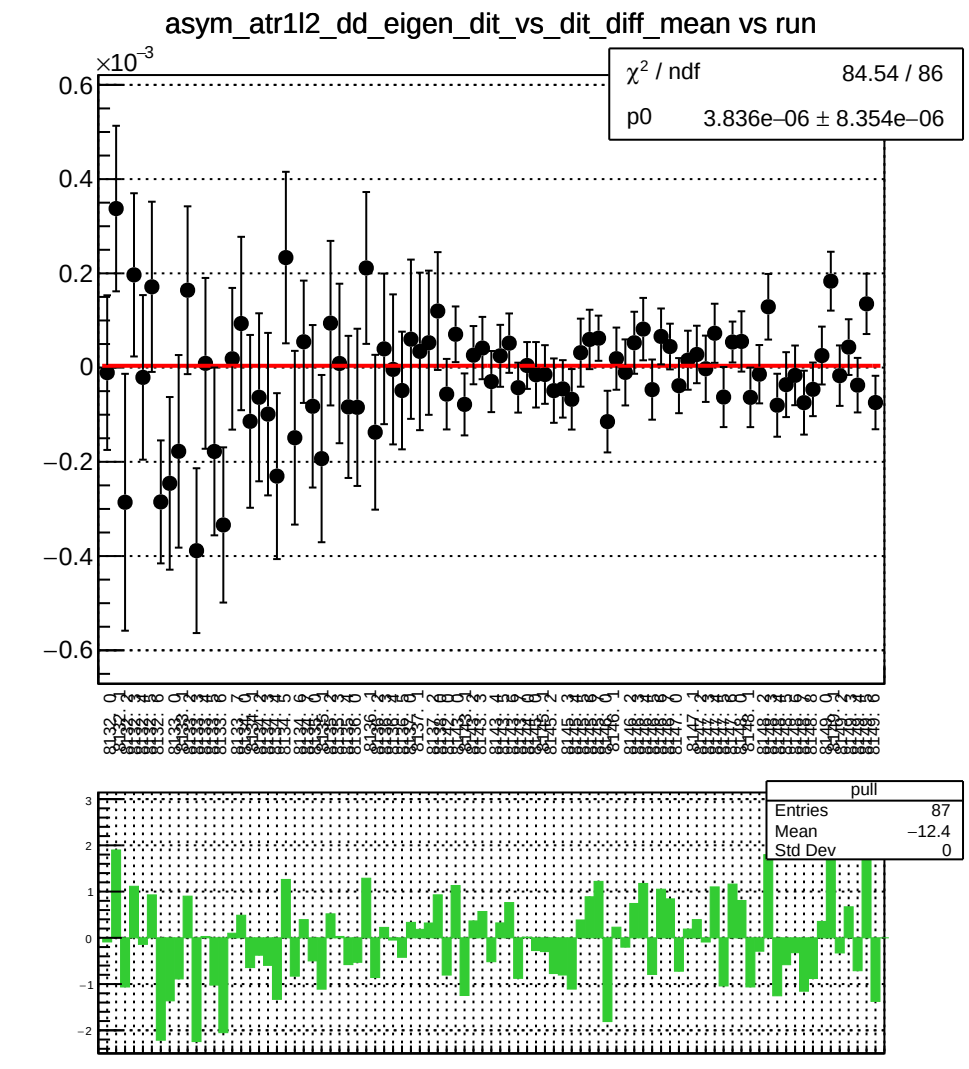

pull1D
Entries 87
Mean −0.002083
Std Dev 0.839

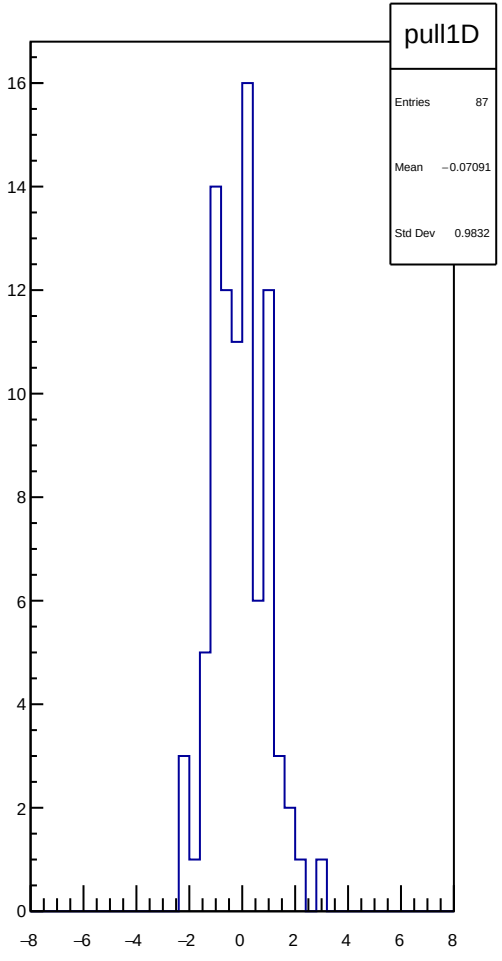

asym_atr1l2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.504e+04 / 86
p0 112 ± 0.08736
450
400
350
300
250
200
150
100
50

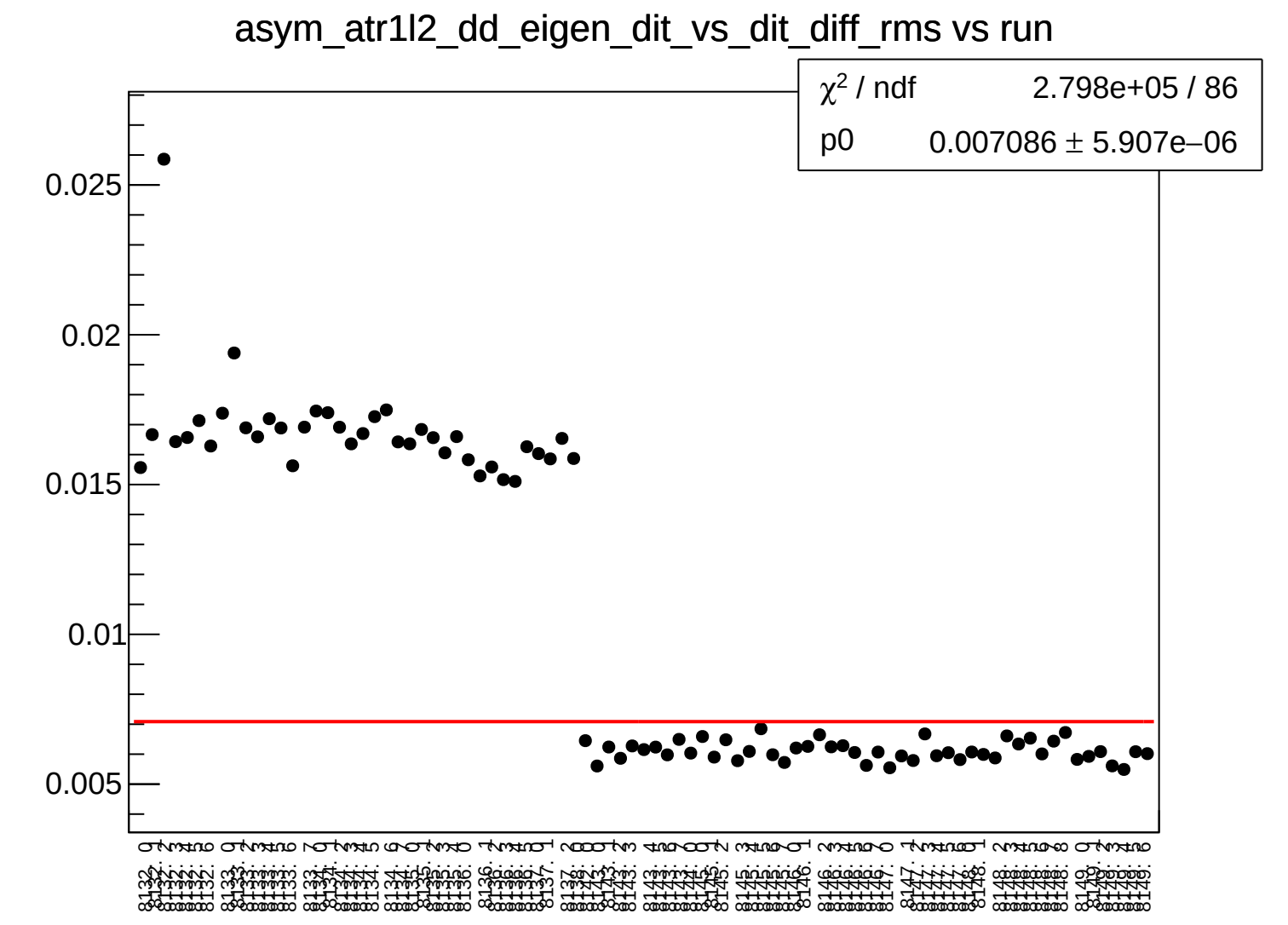

asym_atr1l2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 61.23 / 86
p0 −0.1527 ± 0.1236
pull
Entries 87
Mean −155
Std Dev 46.83

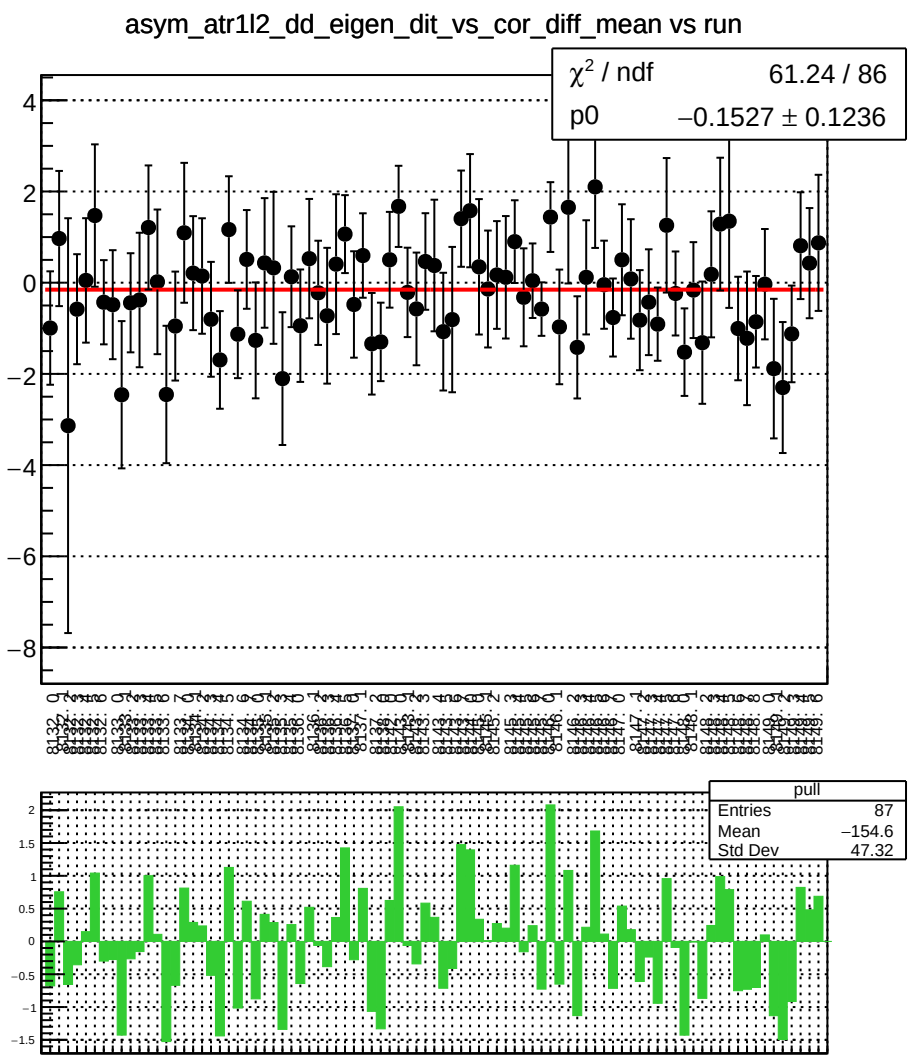

pull1D
Entries 87
Mean −0.002083
Std Dev 0.839

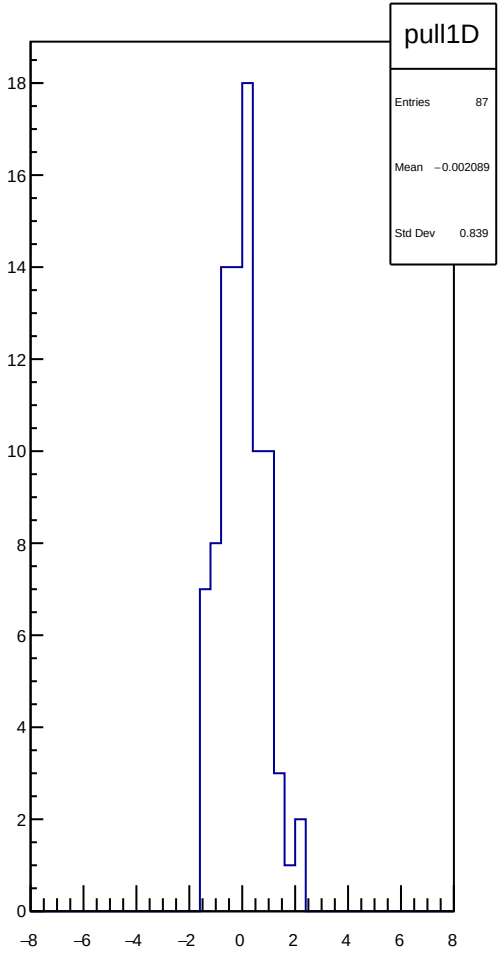

asym_atr1l2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.504e+04 / 86
p0 112 ± 0.08736
450
400
350
300
250
200
150
100
50

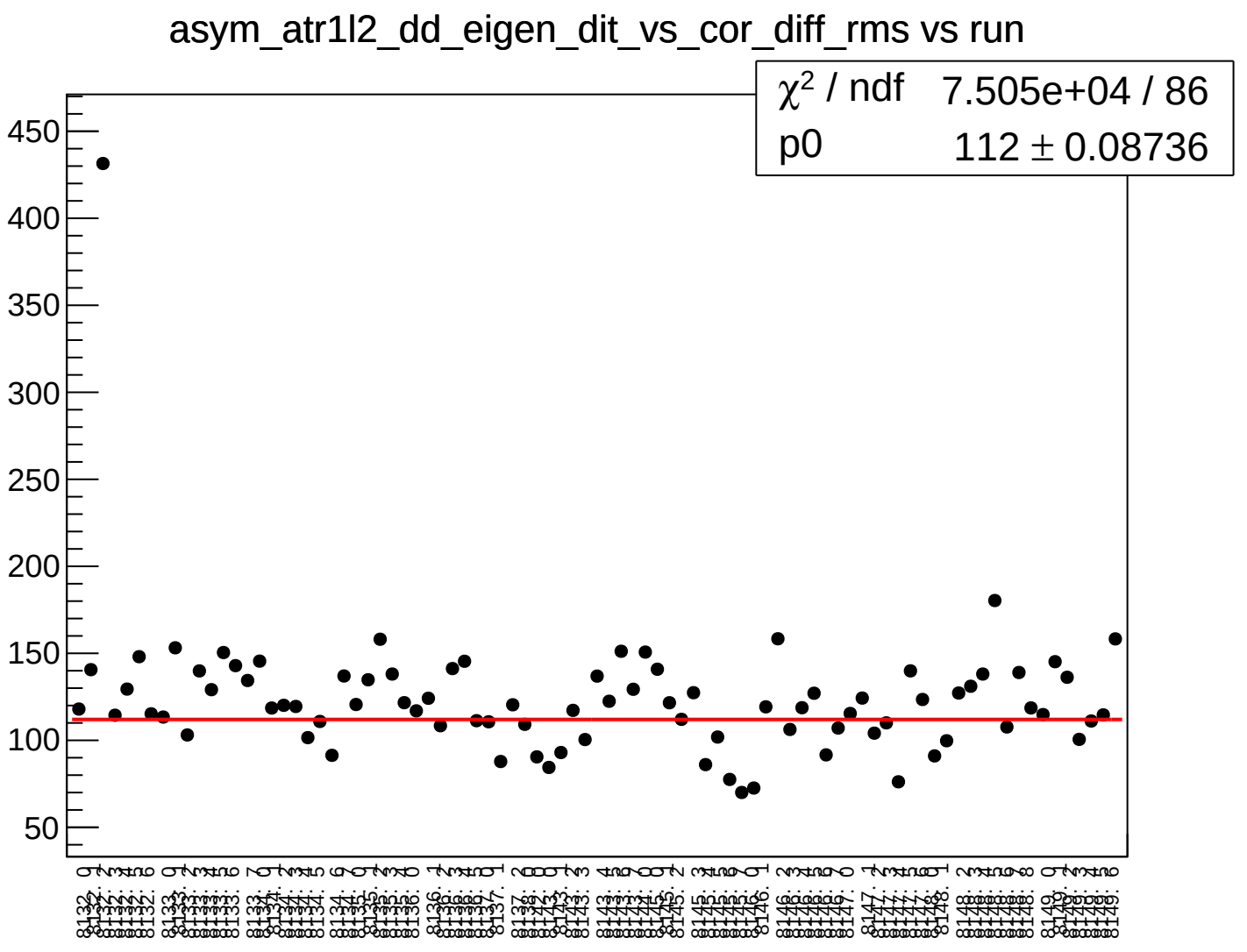

asym_atr1l2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.54 / 86
p0 3.836e−06 ± 8.354e−06
pull
Entries 87
Mean −12.4
Std Dev 0

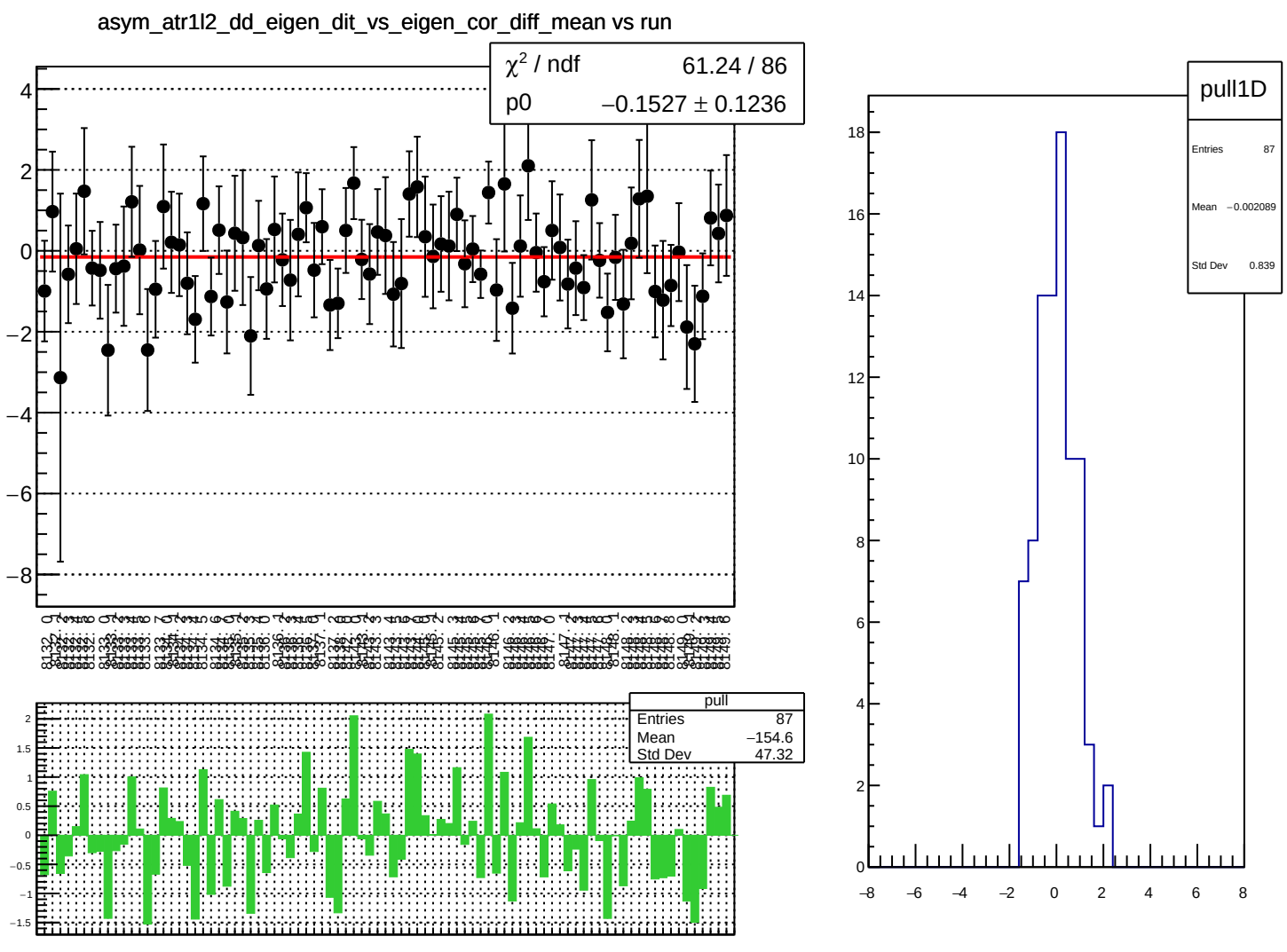

pull1D
Entries 87
Mean −0.07091
Std Dev 0.9832

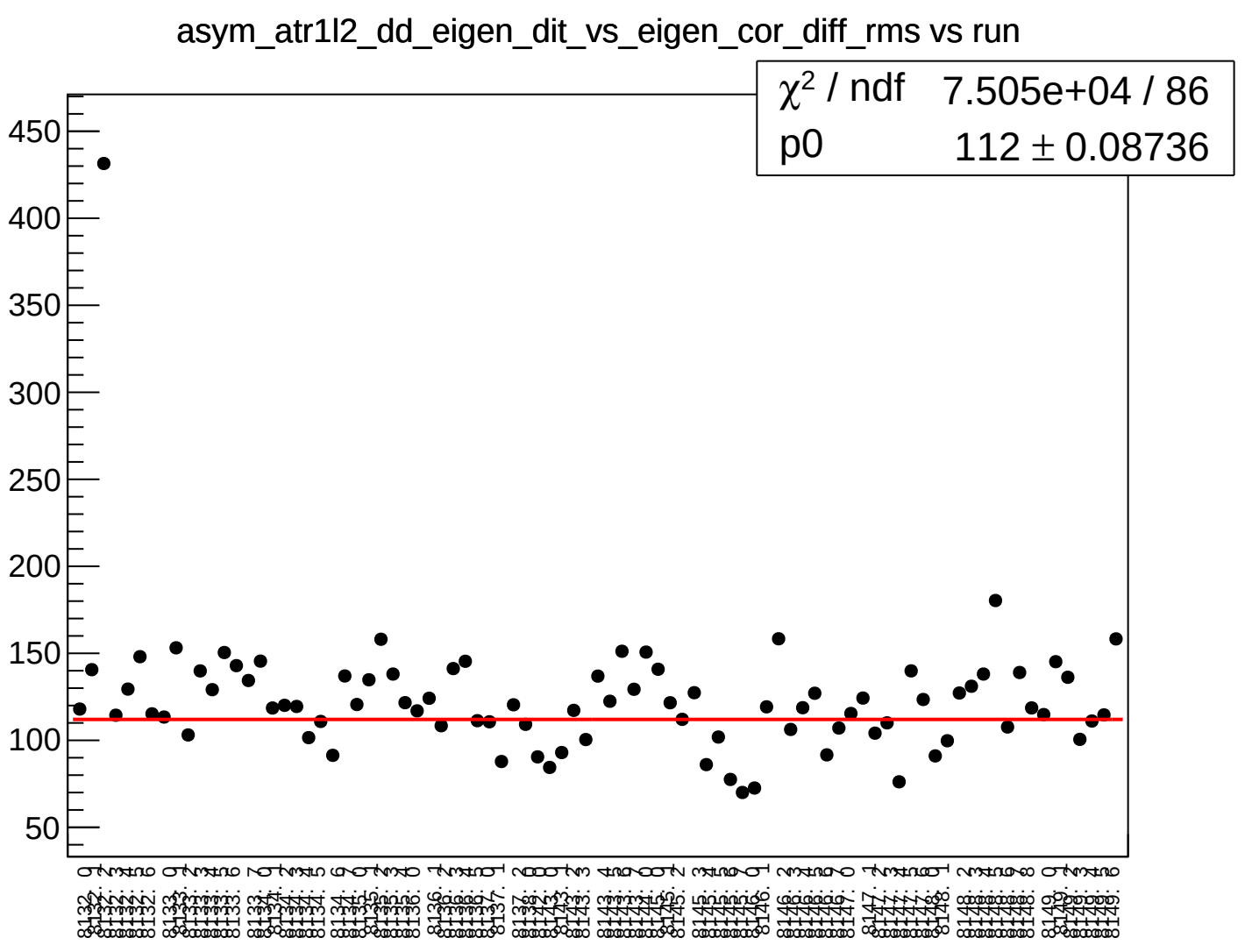

asym_atr1l2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.798e+05 / 86
p0 0.007086 ± 5.907e−06
0.025
0.02
0.015
0.01
0.005

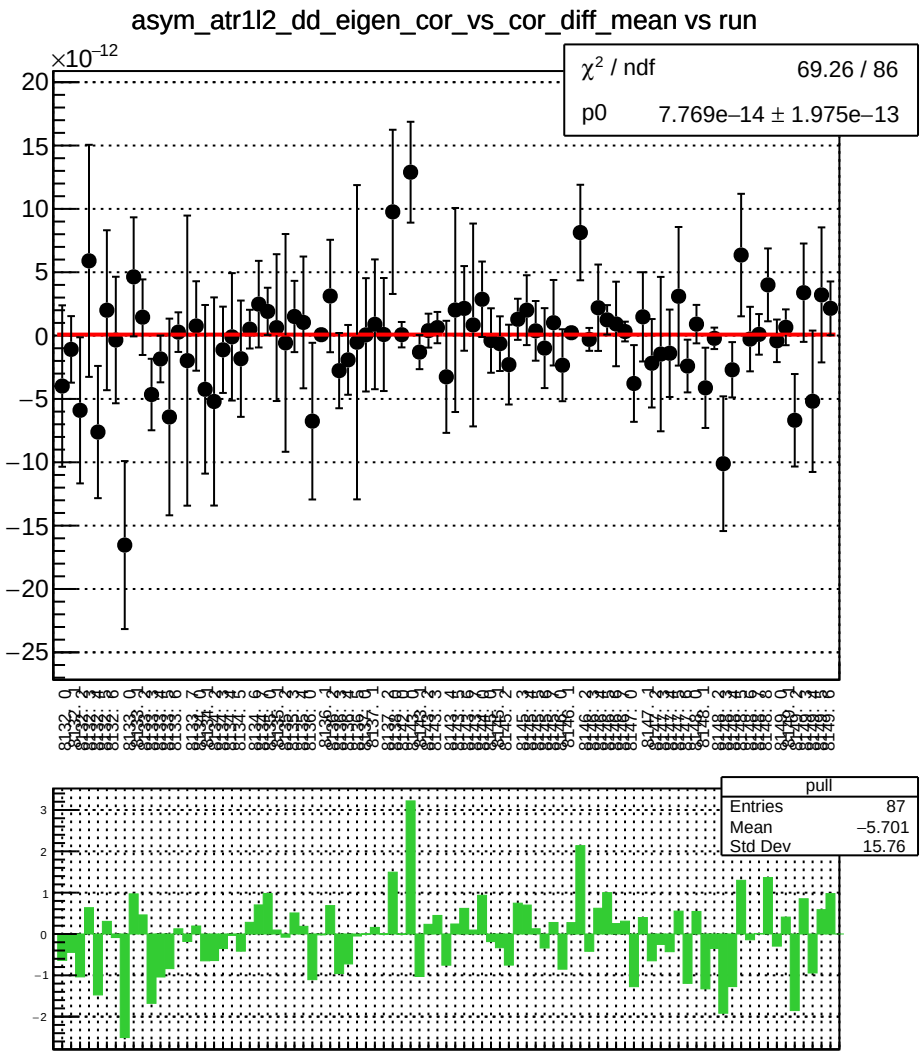

asym_atr1l2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 61.24 / 86
p0 −0.1527 ± 0.1236
pull
Entries 87
Mean −154.6
Std Dev 47.32

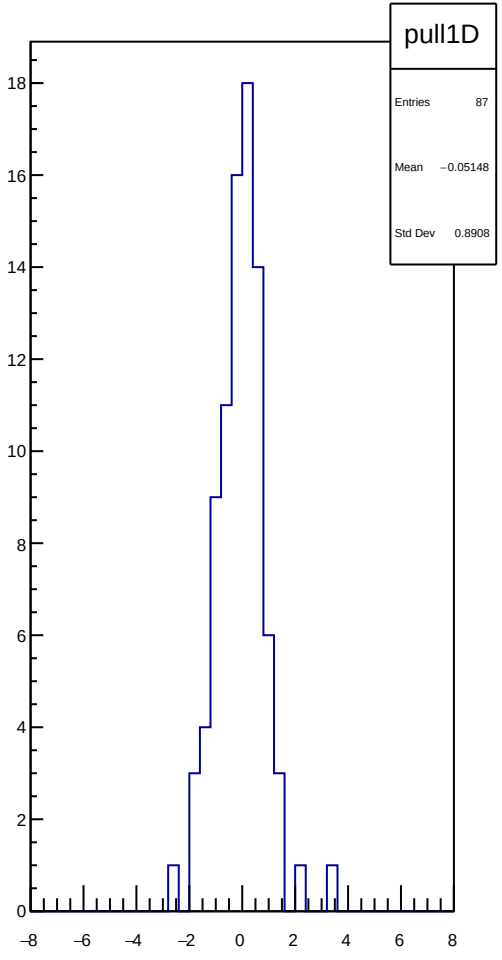

pull1D
Entries 87
Mean −0.002089
Std Dev 0.839

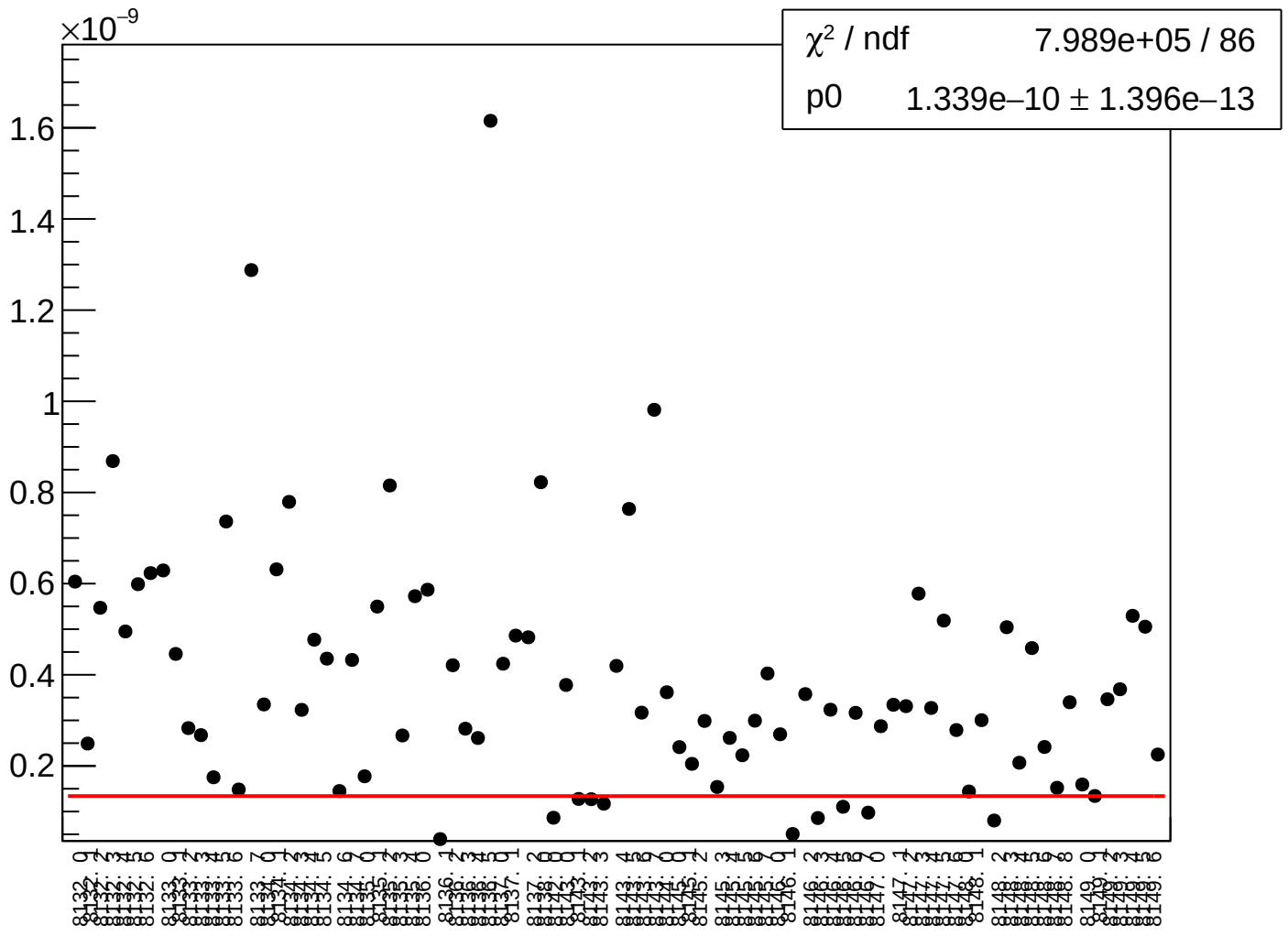

asym_atr1l2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.505e+04 / 86
p0 112 ± 0.08736
450
400
350
300
250
200
150
100
50

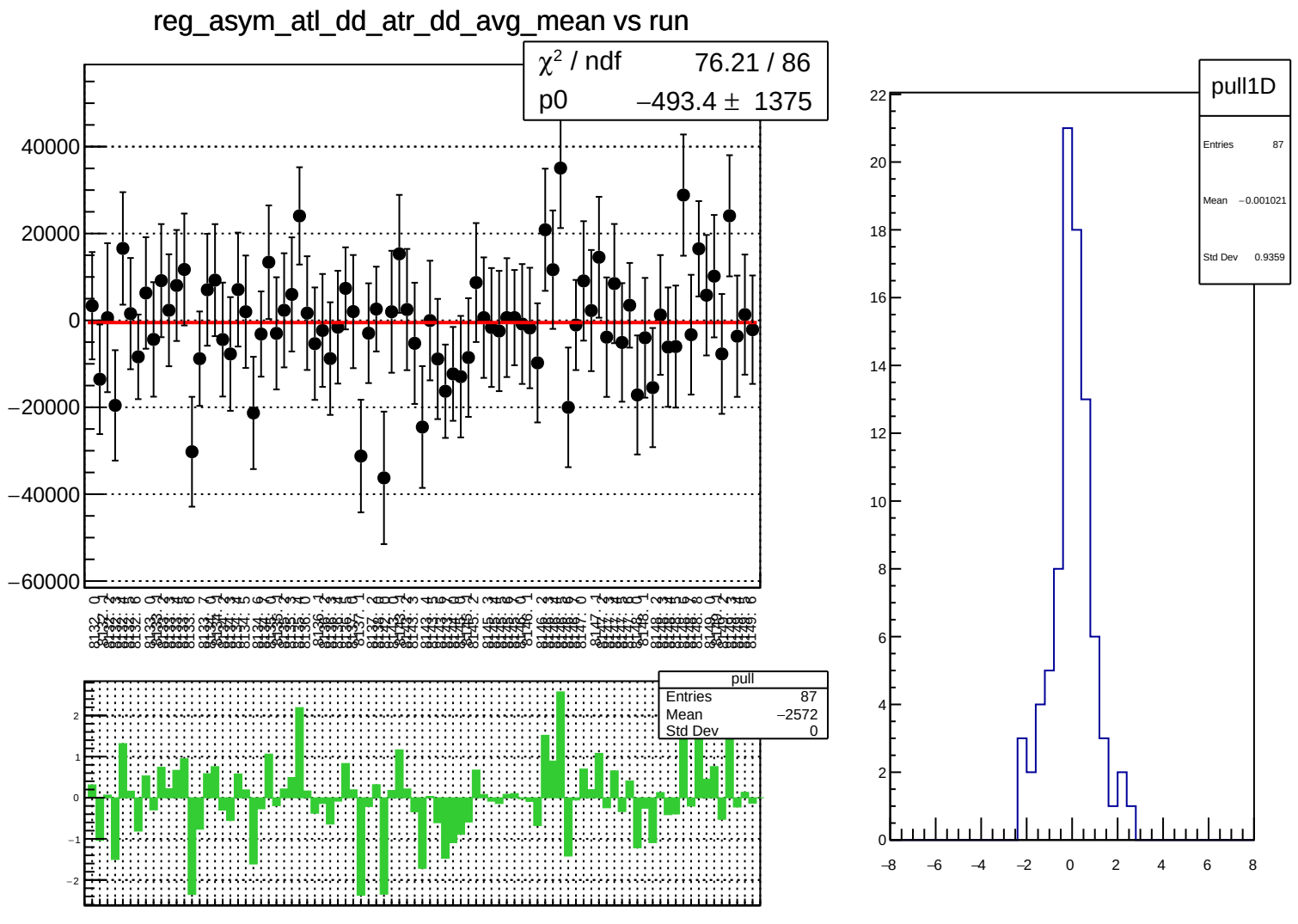

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 61.24 / 86
p0 −0.1527 ± 0.1236
pull
Entries 87
Mean −154.6
Std Dev 47.32
pull1D
Entries 87
Mean −0.002089
Std Dev 0.839

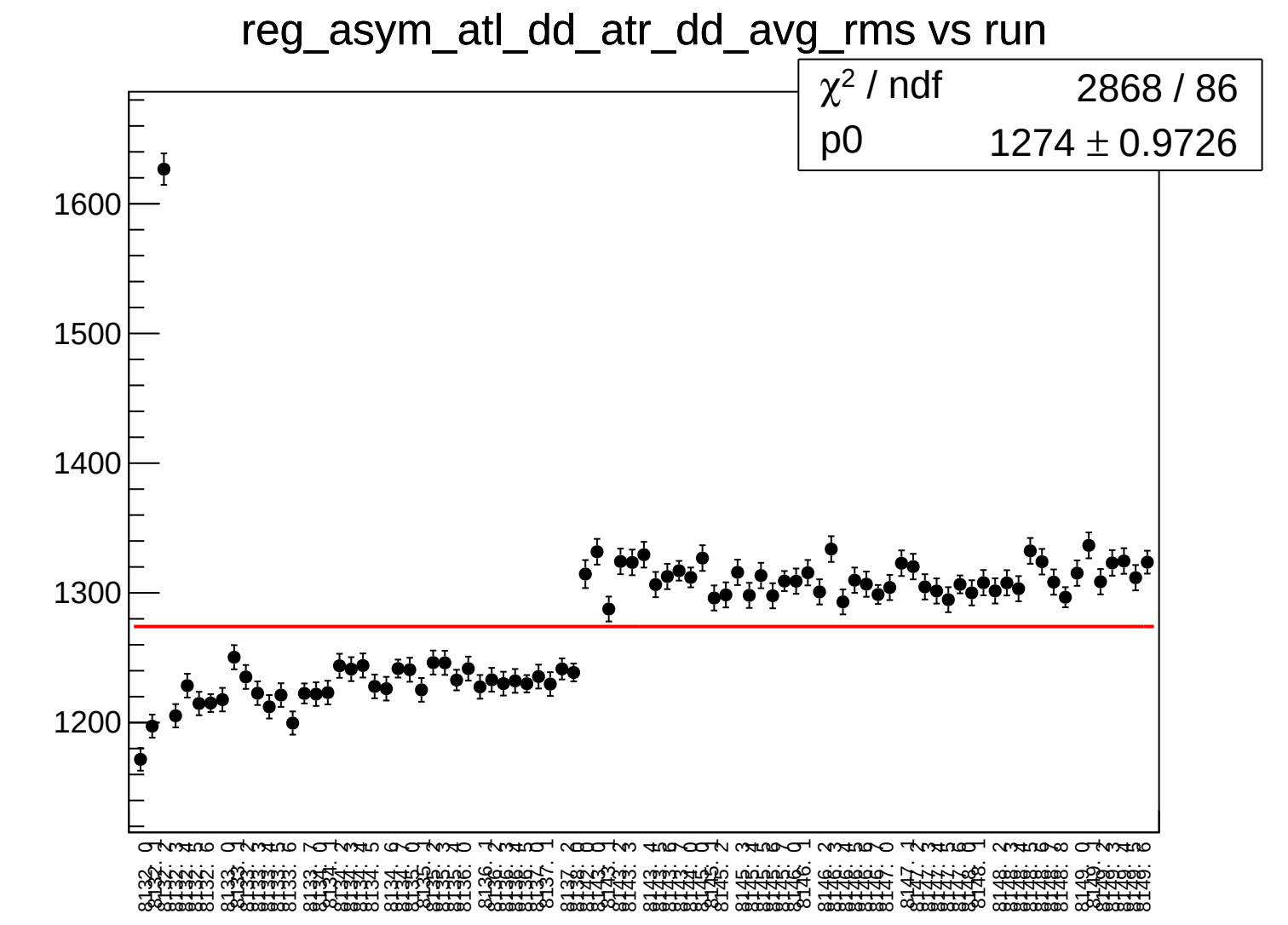

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.505e+04 / 86
p0 112 ± 0.08736
450
400
350
300
250
200
150
100
50

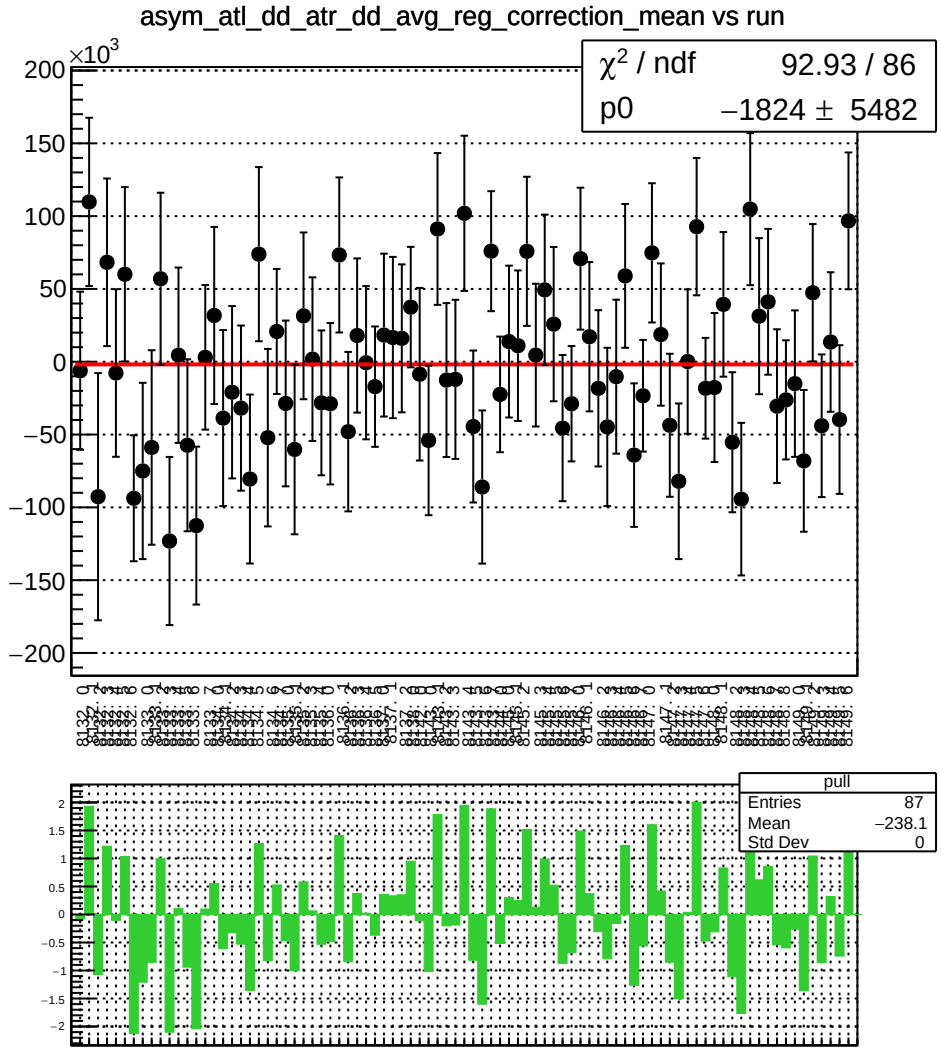

asym_atr1l2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 69.26 / 86
p0 7.769e−14 ± 1.975e−13
pull
Entries 87
Mean −5.701
Std Dev 15.76

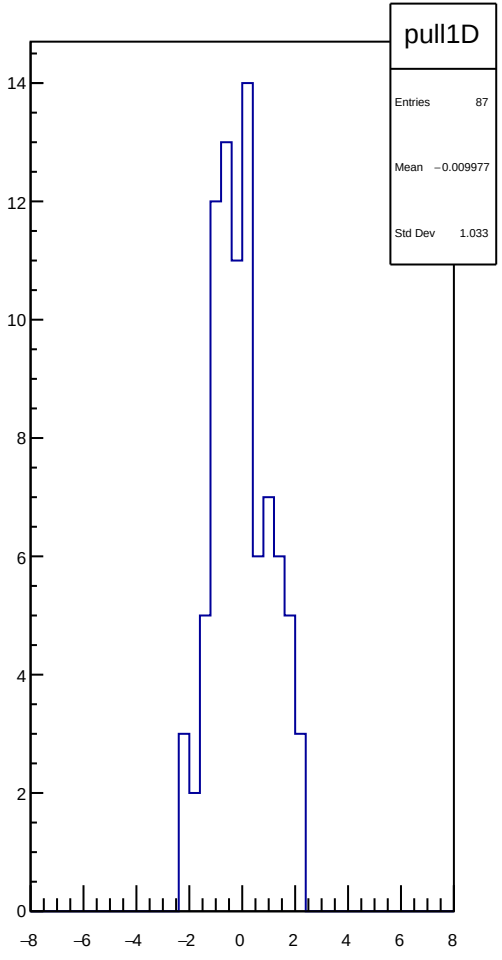

pull1D
Entries 87
Mean −0.05148
Std Dev 0.8908

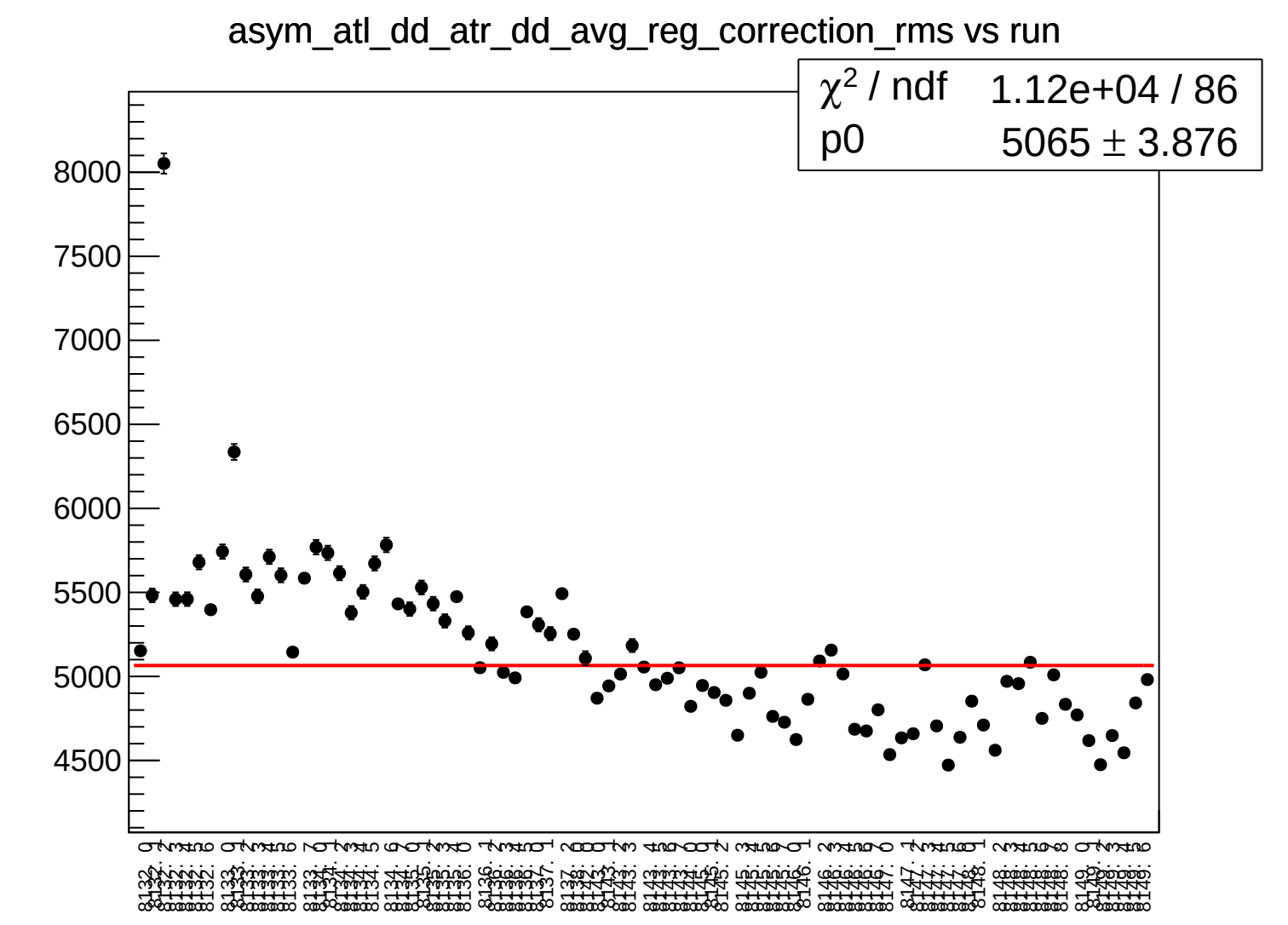

asym_atr1l2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.989e+05 / 86
p0 1.339e−10 ± 1.396e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

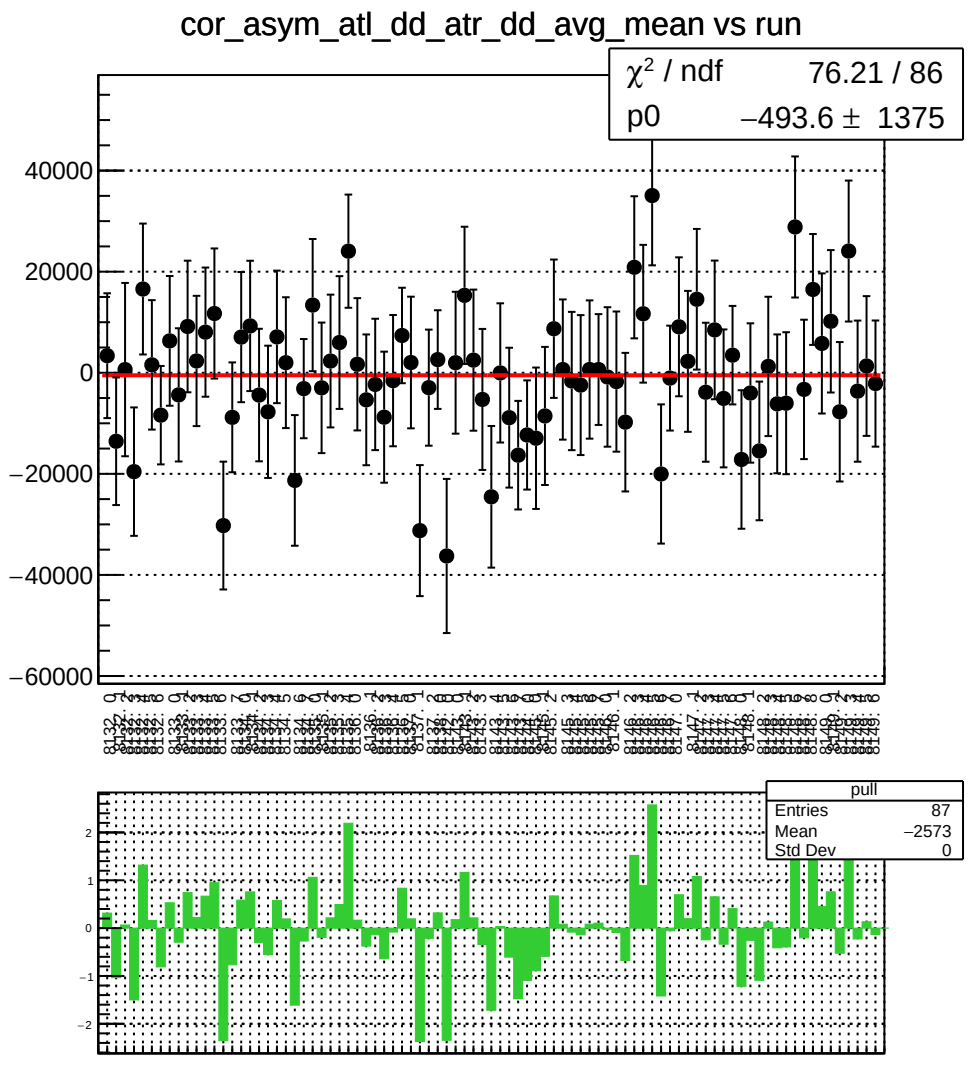

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 76.21 / 86
p0 −493.4 ± 1375
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −2572
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.001021
Std Dev 0.9359
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

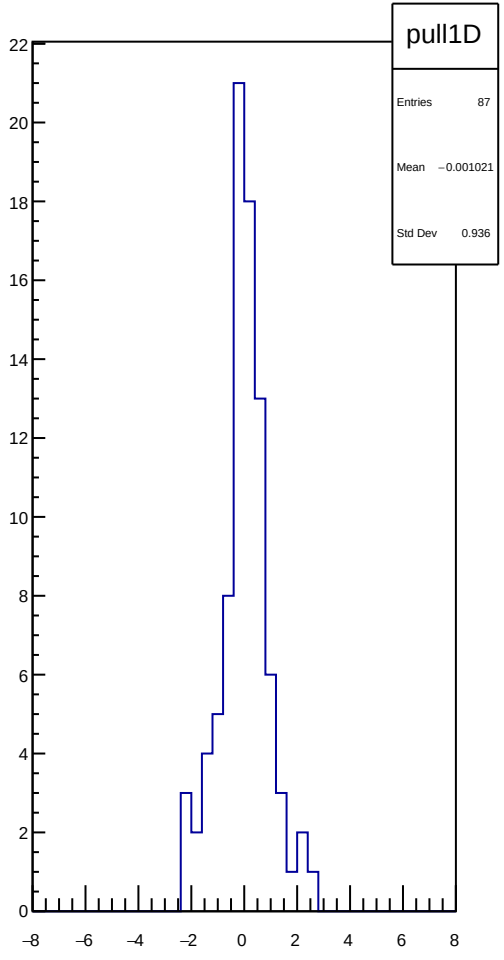

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 2868 / 86
p0 1274 ± 0.9726
1600
1500
1400
1300
1200

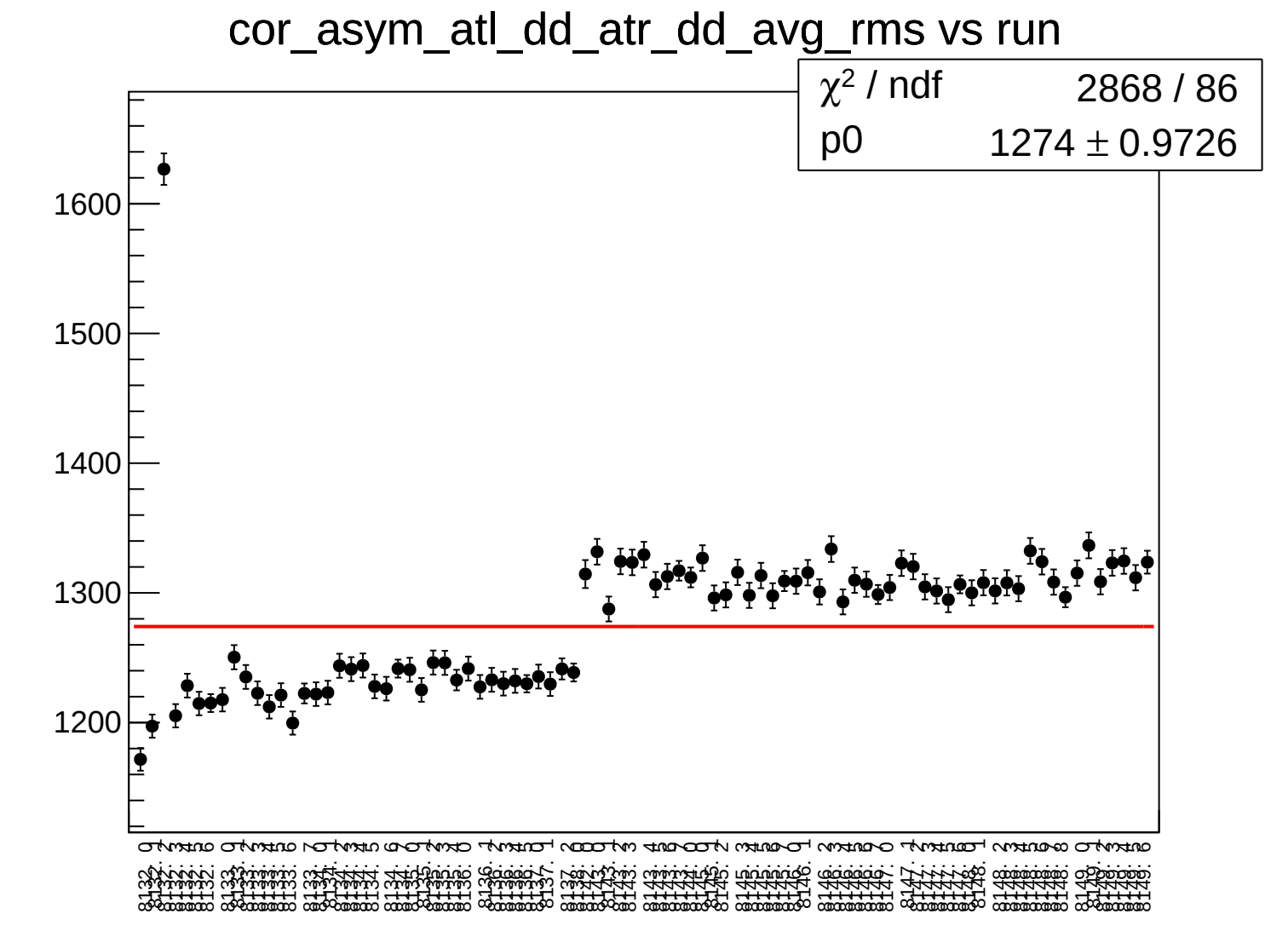

asym_atl_dd_atr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 92.93 / 86
p0 −1824 ± 5482
pull
Entries 87
Mean −238.1
Std Dev 0

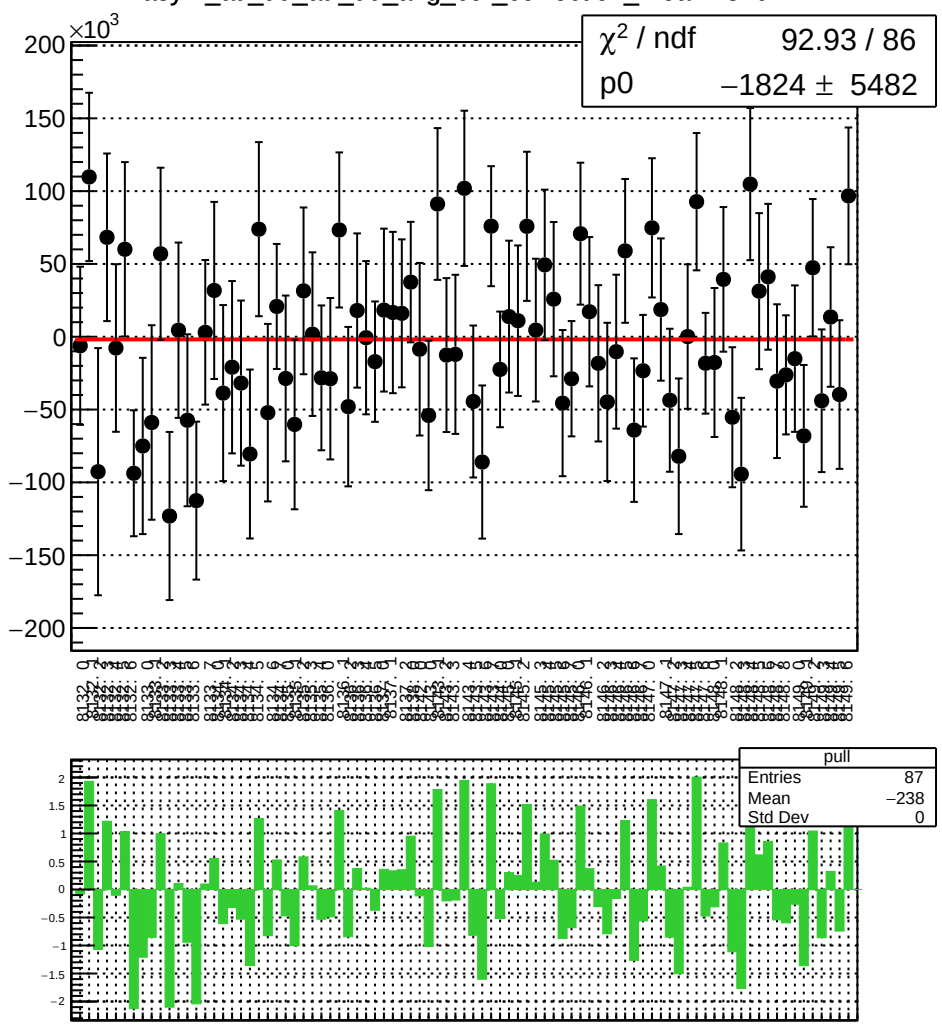

pull1D
Entries 87
Mean −0.009977
Std Dev 1.033

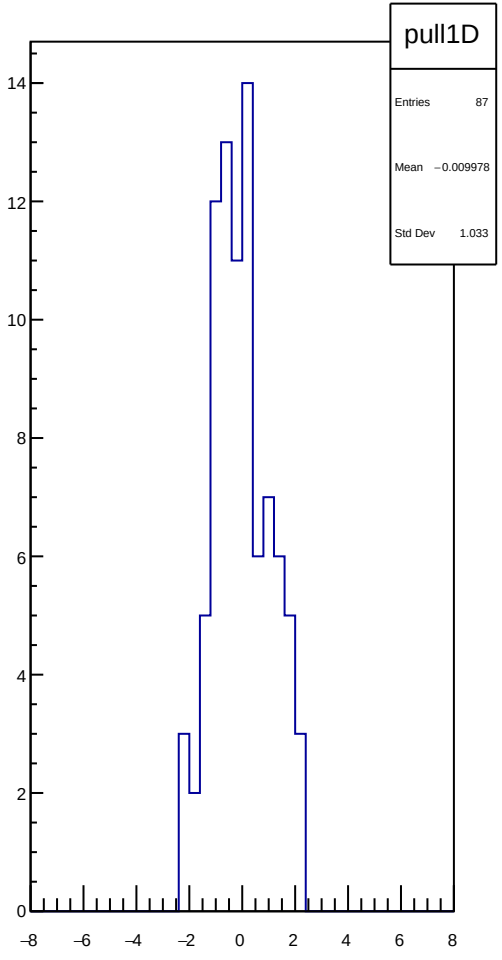

asym_atl_dd_atr_dd_avg_reg_correction_rms vs run
χ² / ndf 1.12e+04 / 86
p0 5065 ± 3.876
8000
7500
7000
6500
6000
5500
5000
4500

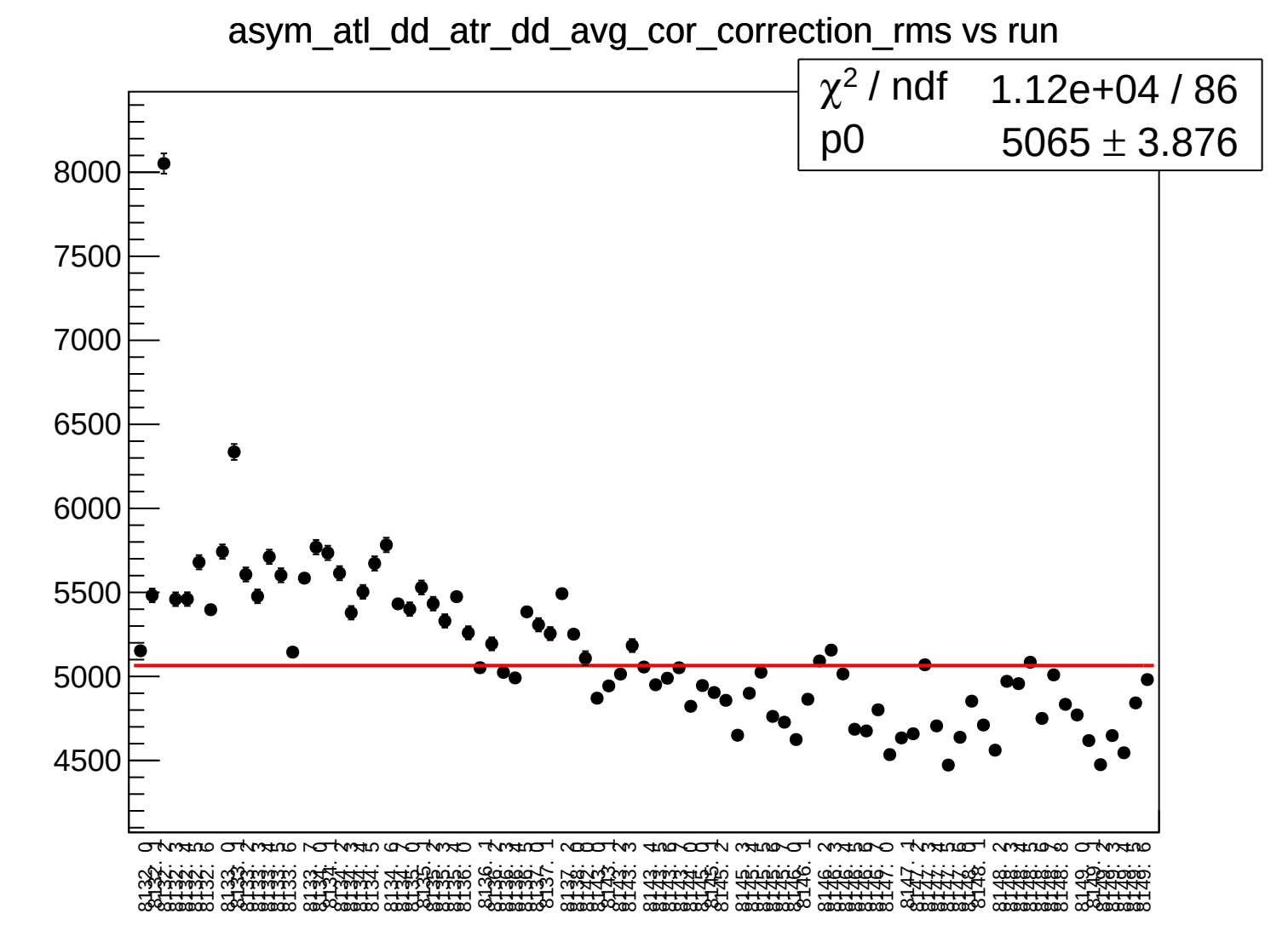

cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 76.21 / 86
p0 −493.6 ± 1375
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −2573
Std Dev 0
2
1
0
−1
−2

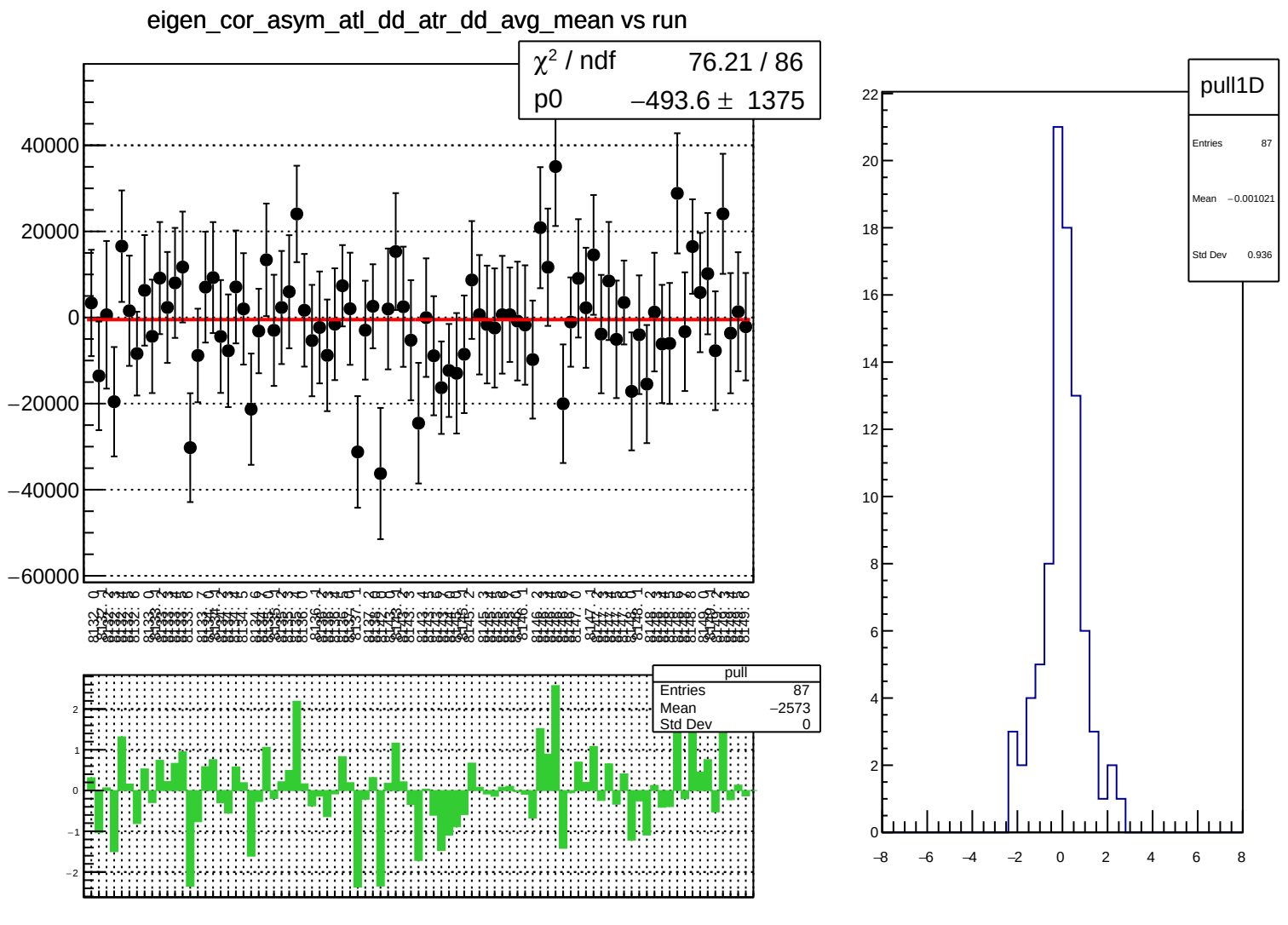

pull1D
Entries 87
Mean −0.001021
Std Dev 0.936
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

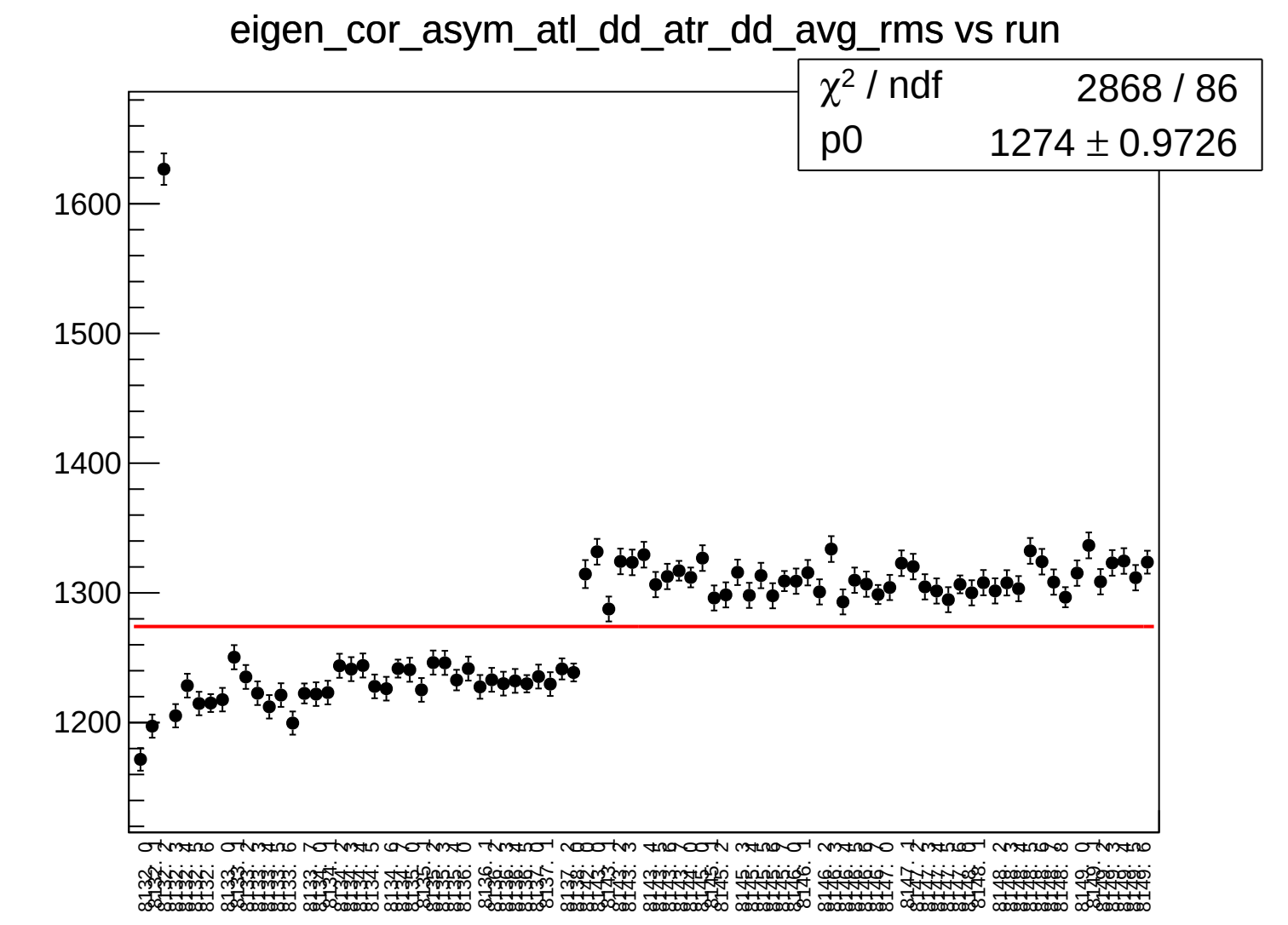

cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 2868 / 86
p0 1274 ± 0.9726
1600
1500
1400
1300
1200

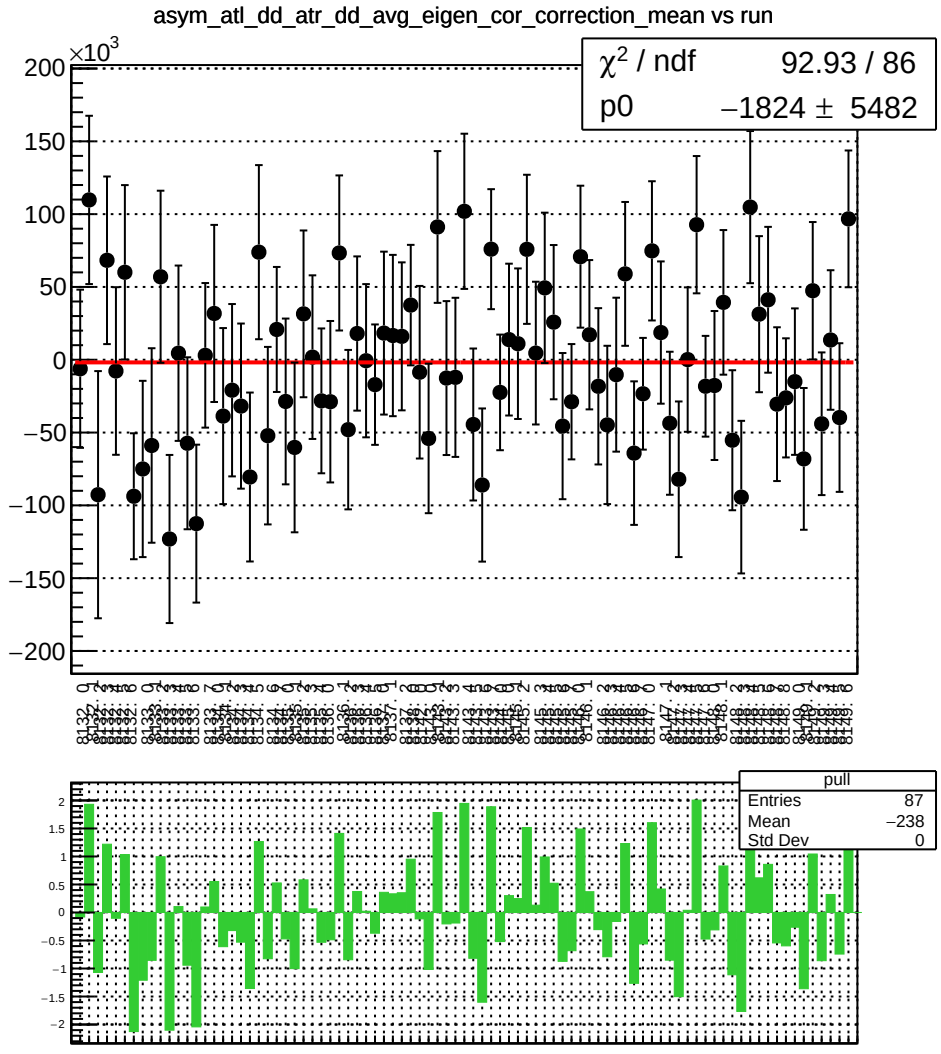

asym_atl_dd_atr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 92.93 / 86
p0 −1824 ± 5482
pull
Entries 87
Mean −238
Std Dev 0

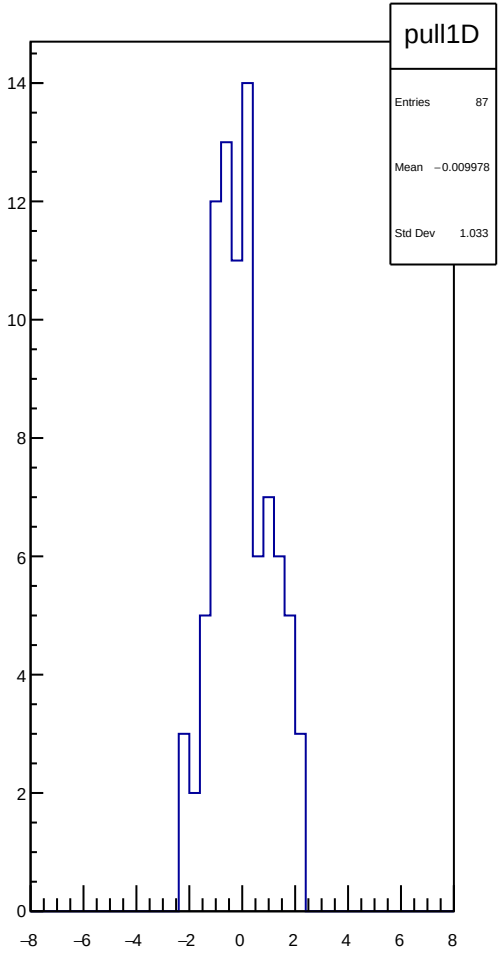

pull1D
Entries 87
Mean −0.009978
Std Dev 1.033

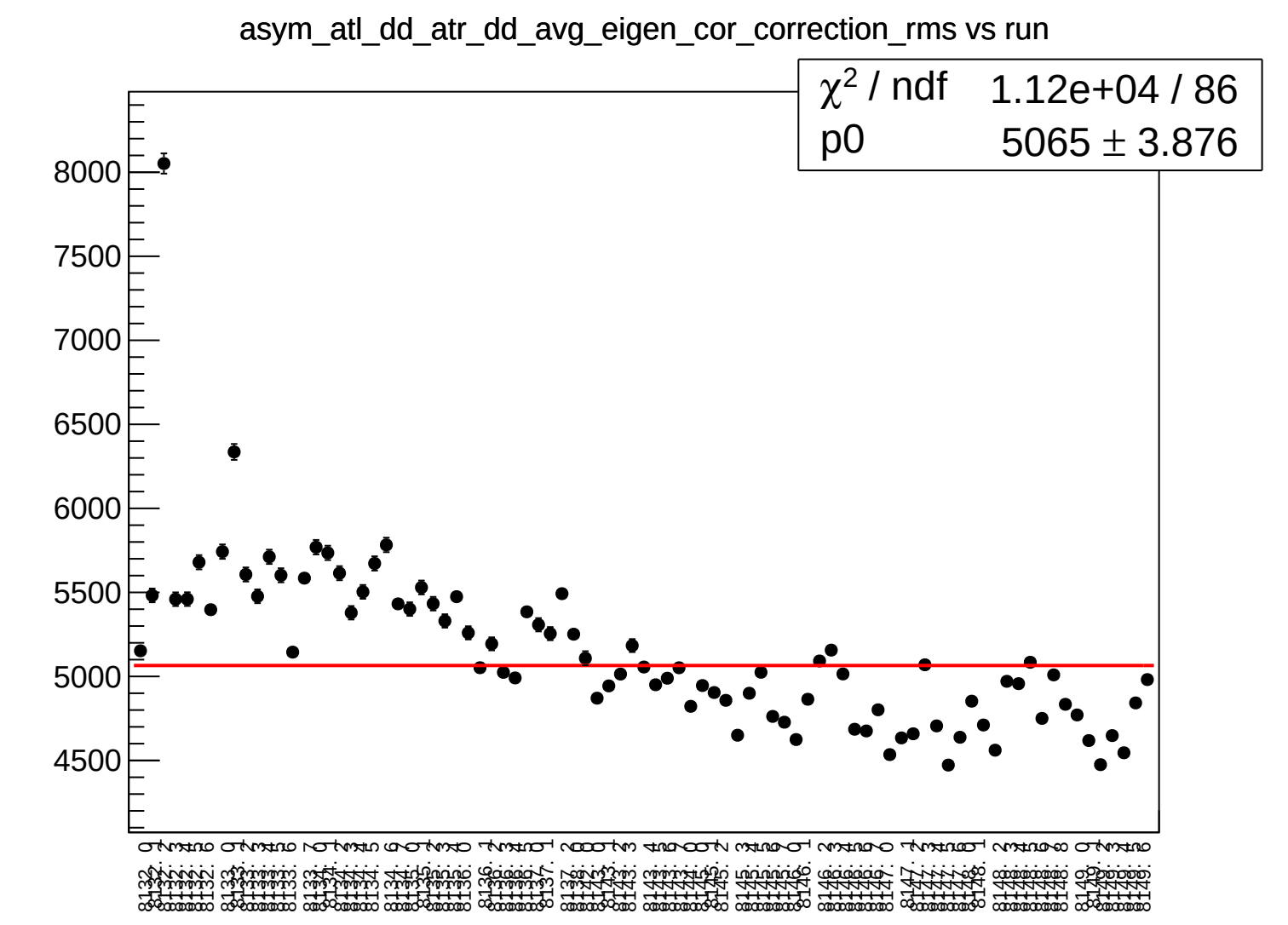

asym_atl_dd_atr_dd_avg_cor_correction_rms vs run
χ² / ndf 1.12e+04 / 86
p0 5065 ± 3.876
8000
7500
7000
6500
6000
5500
5000
4500

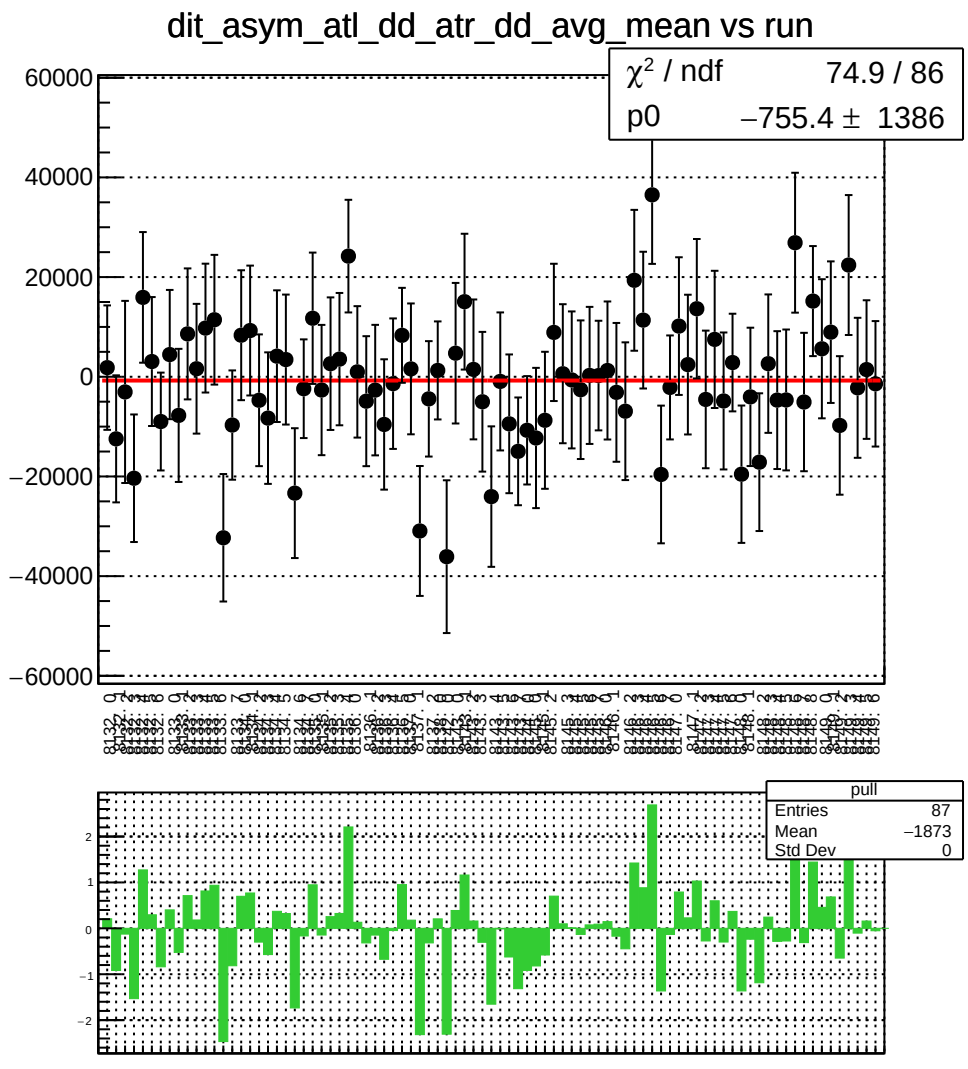

eigen_cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 76.21 / 86
p0 −493.6 ± 1375
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −2573
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.001021
Std Dev 0.936
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

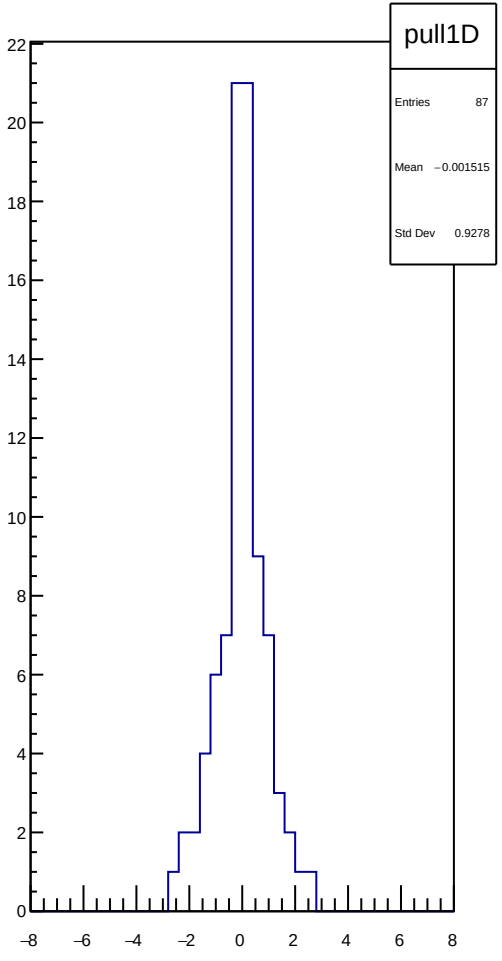

eigen_cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 2868 / 86
p0 1274 ± 0.9726
1600
1500
1400
1300
1200

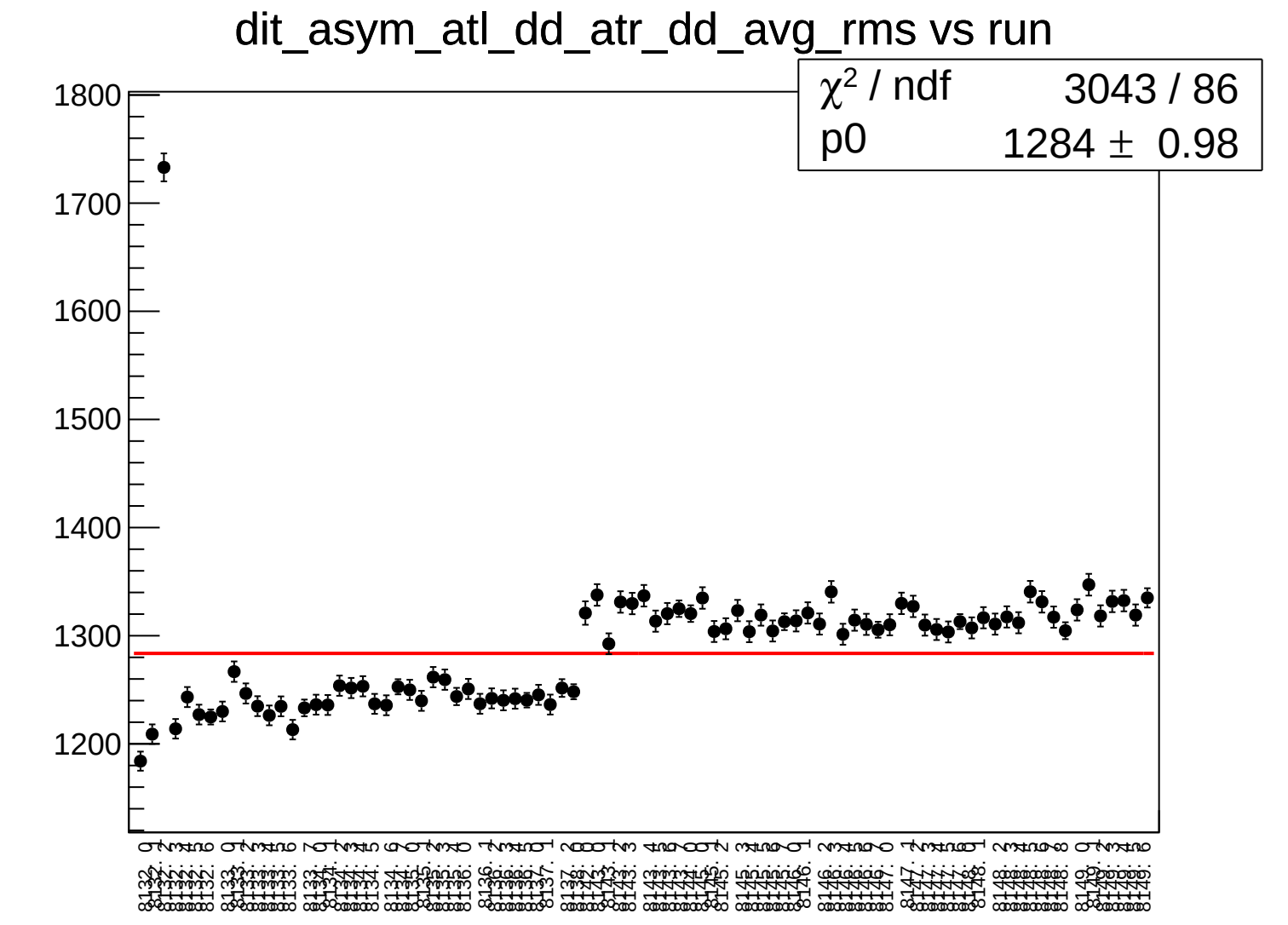

asym_atl_dd_atr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 92.93 / 86
p0 −1824 ± 5482
pull
Entries 87
Mean −238
Std Dev 0

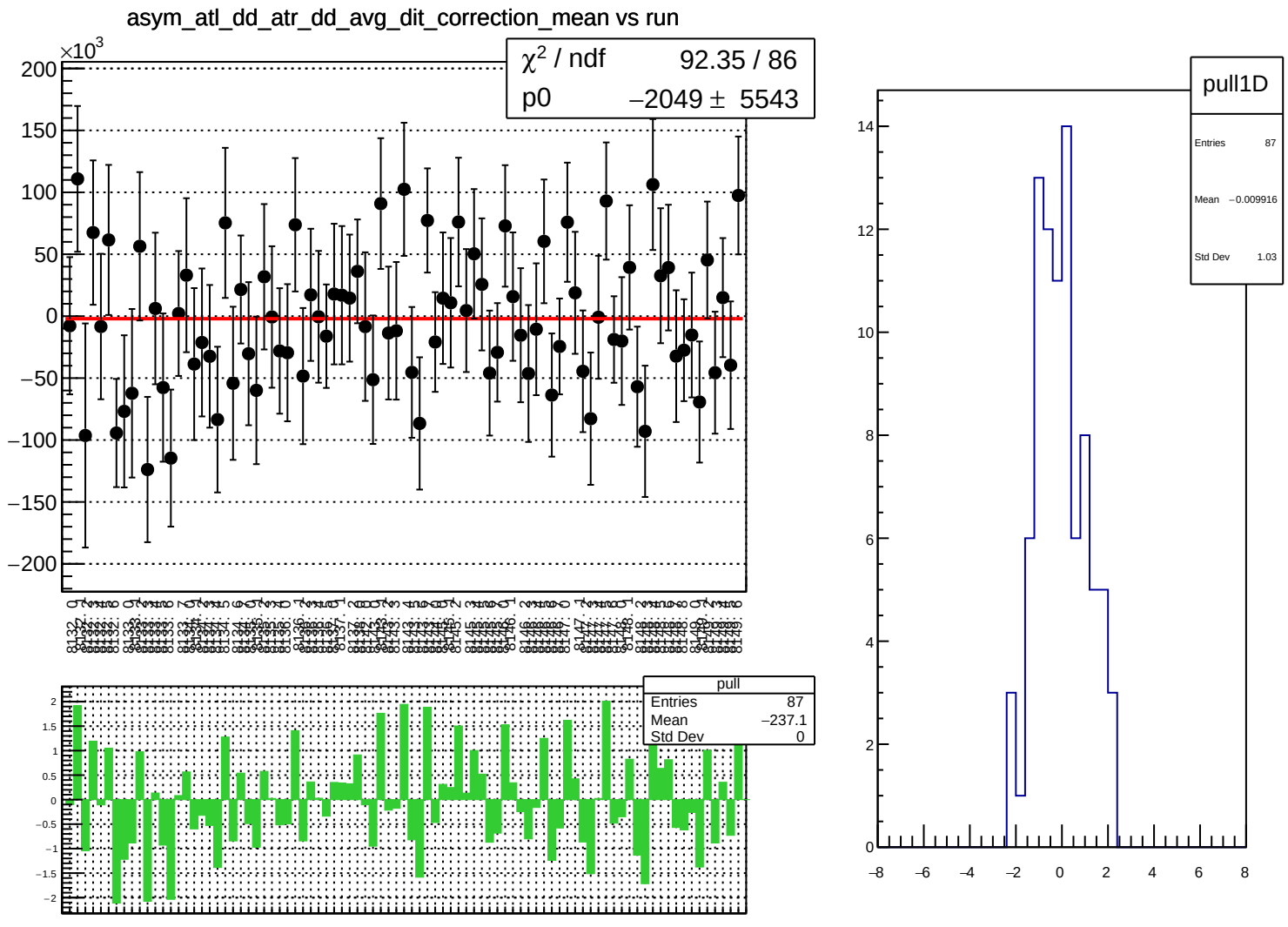

pull1D
Entries 87
Mean −0.009978
Std Dev 1.033

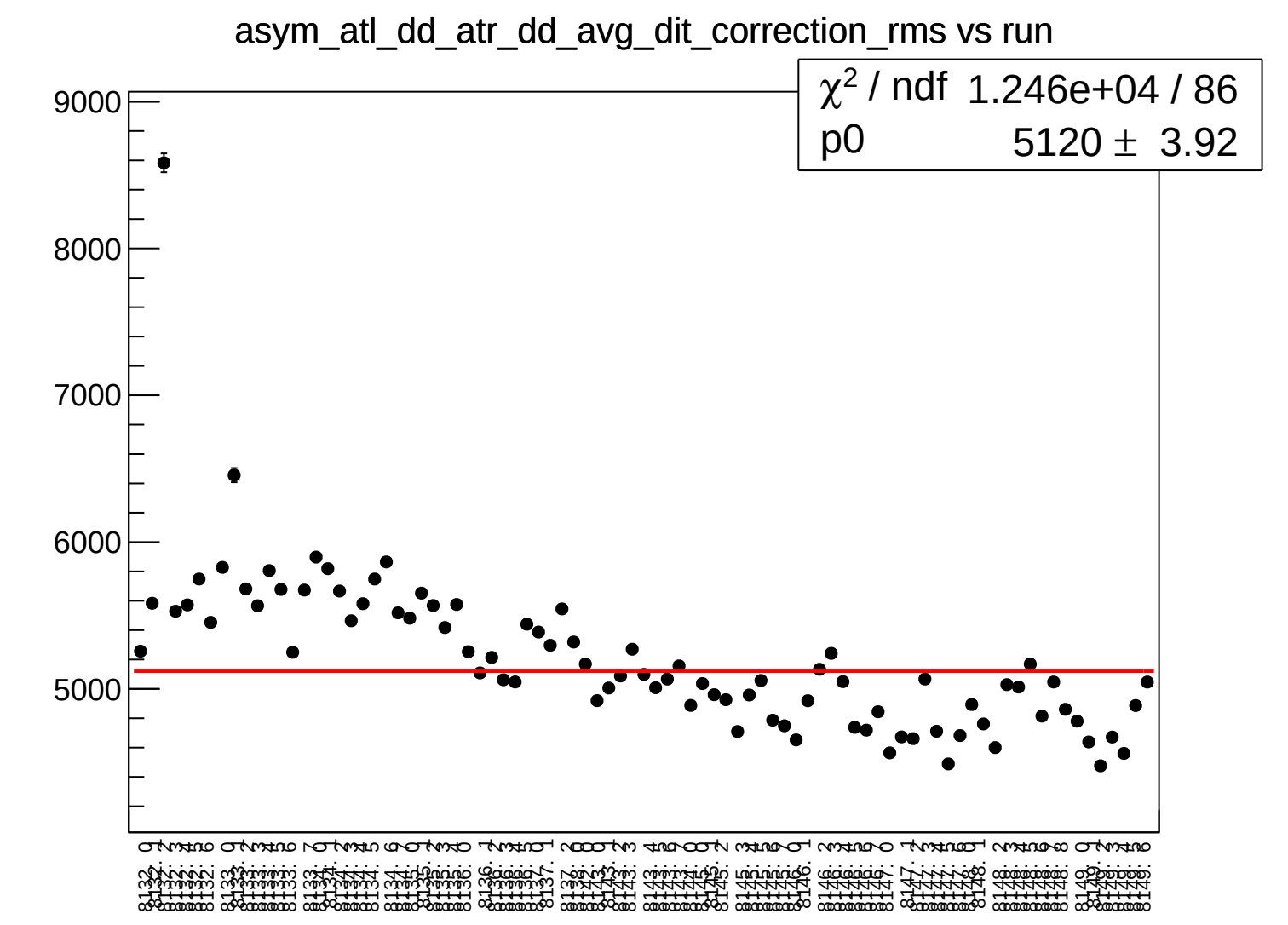

asym_atl_dd_atr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.12e+04 / 86
p0 5065 ± 3.876
8000
7500
7000
6500
6000
5500
5000
4500

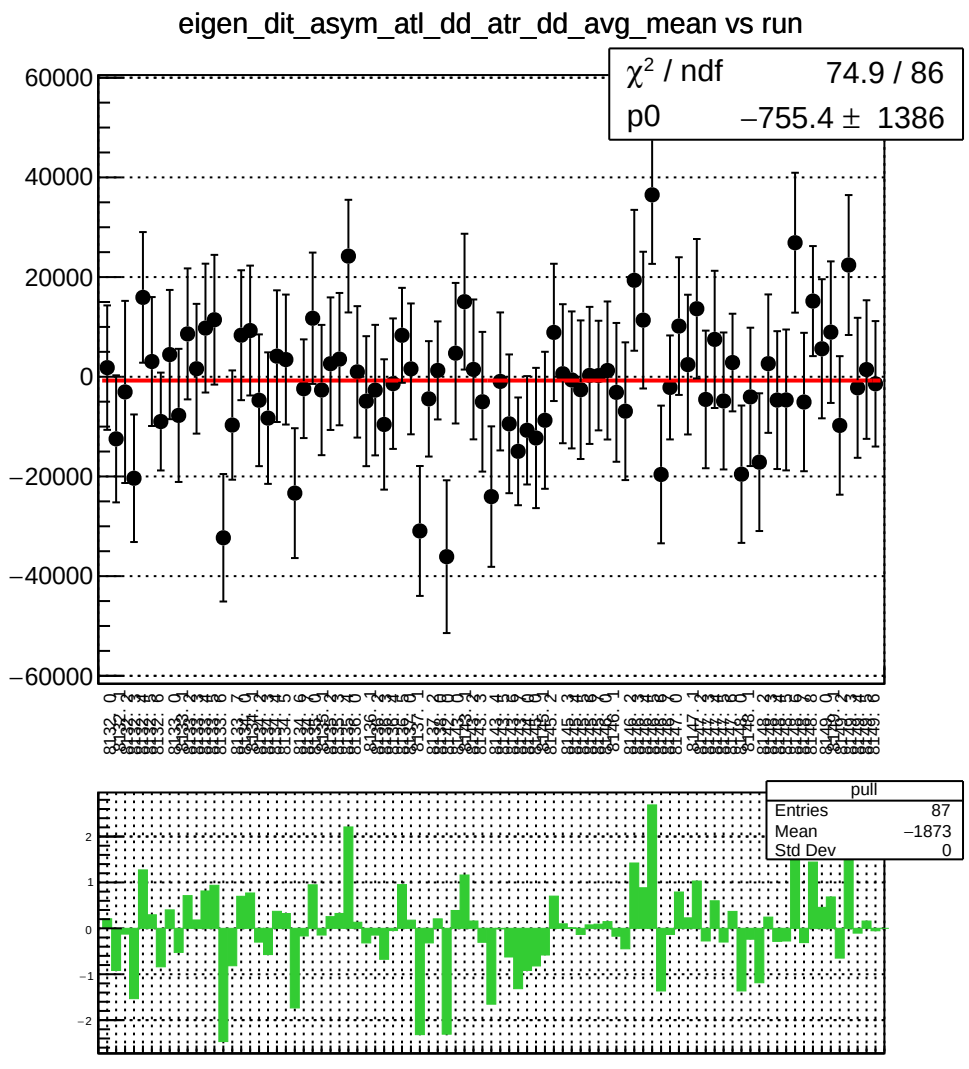

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 74.9 / 86
p0 −755.4 ± 1386
pull
Entries 87
Mean −1873
Std Dev 0

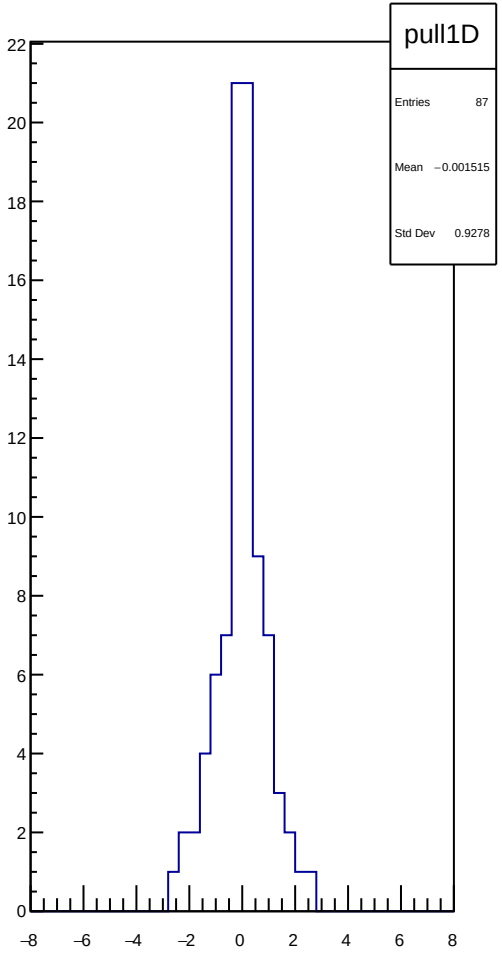

pull1D
Entries 87
Mean −0.001515
Std Dev 0.9278

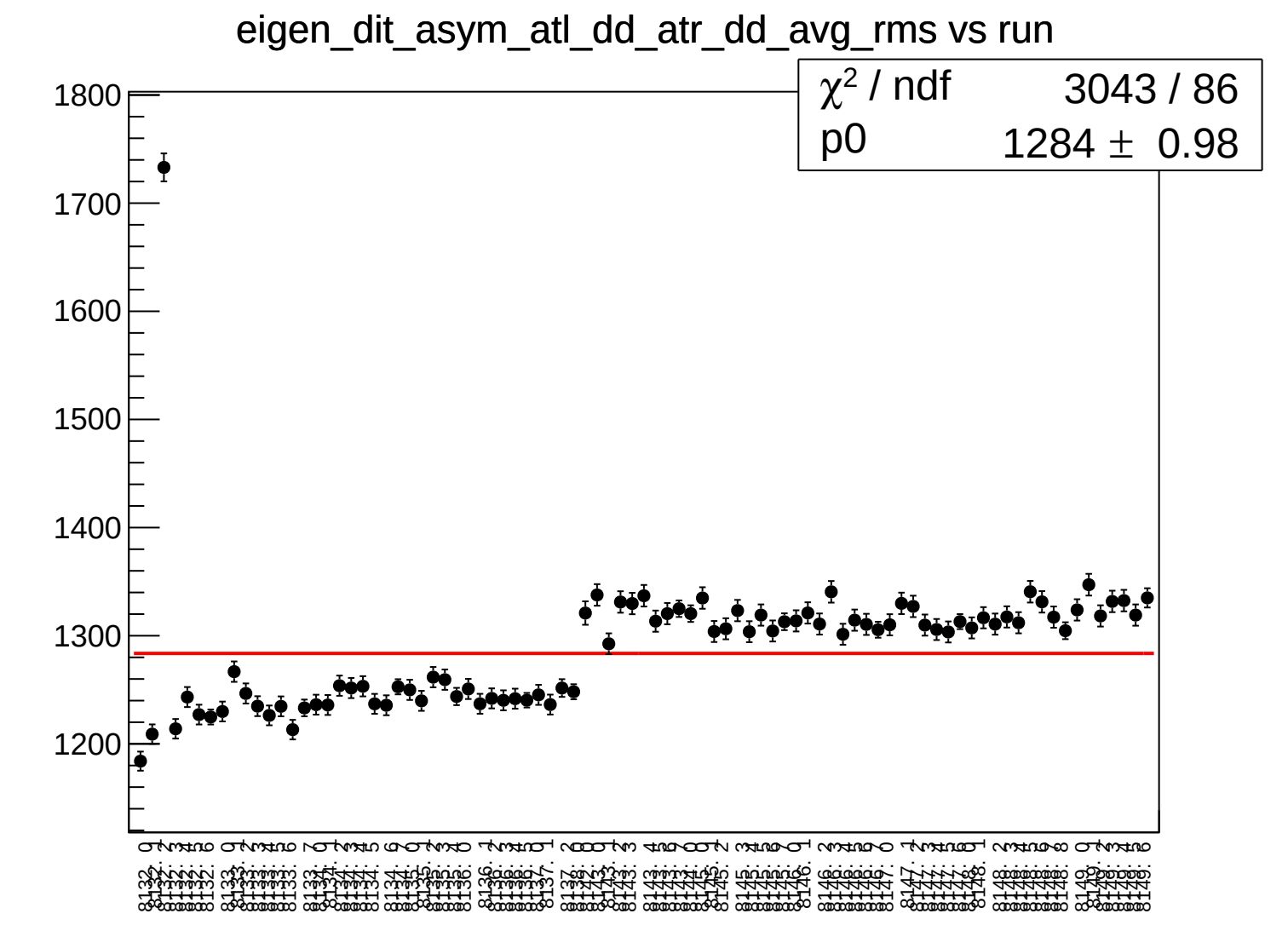

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 3043 / 86
p0 1284 ± 0.98
1800
1700
1600
1500
1400
1300
1200

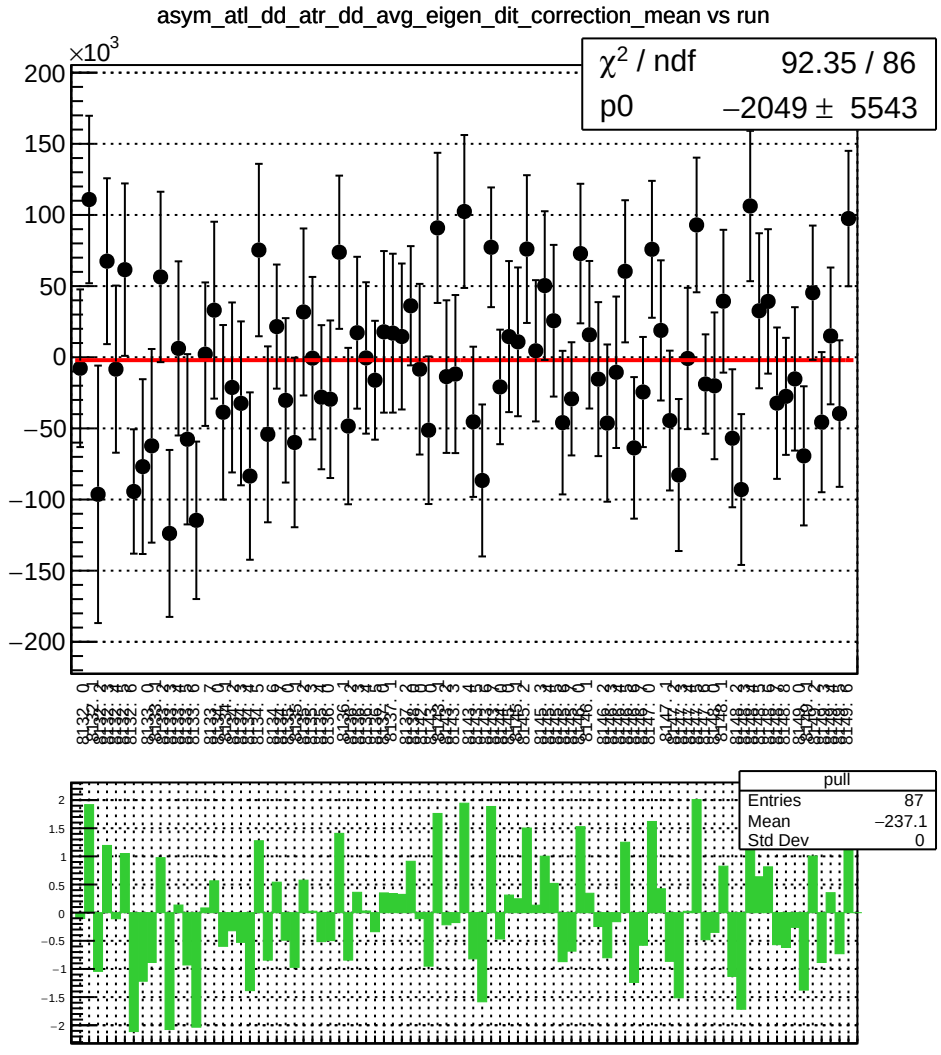

asym_atl_dd_atr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 92.35 / 86
p0 −2049 ± 5543
pull
Entries 87
Mean −237.1
Std Dev 0
pull1D
Entries 87
Mean −0.009916
Std Dev 1.03

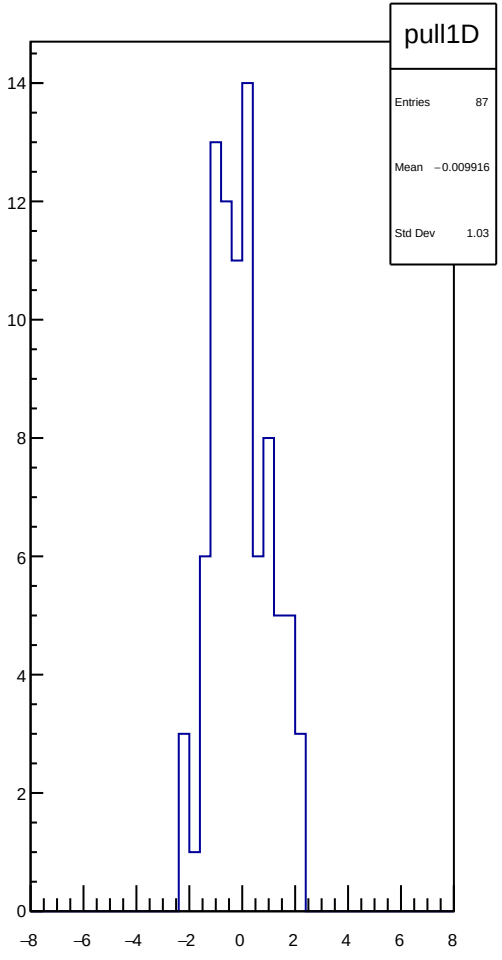

asym_atl_dd_atr_dd_avg_dit_correction_rms vs run
χ² / ndf 1.246e+04 / 86
p0 5120 ± 3.92
9000
8000
7000
6000
5000

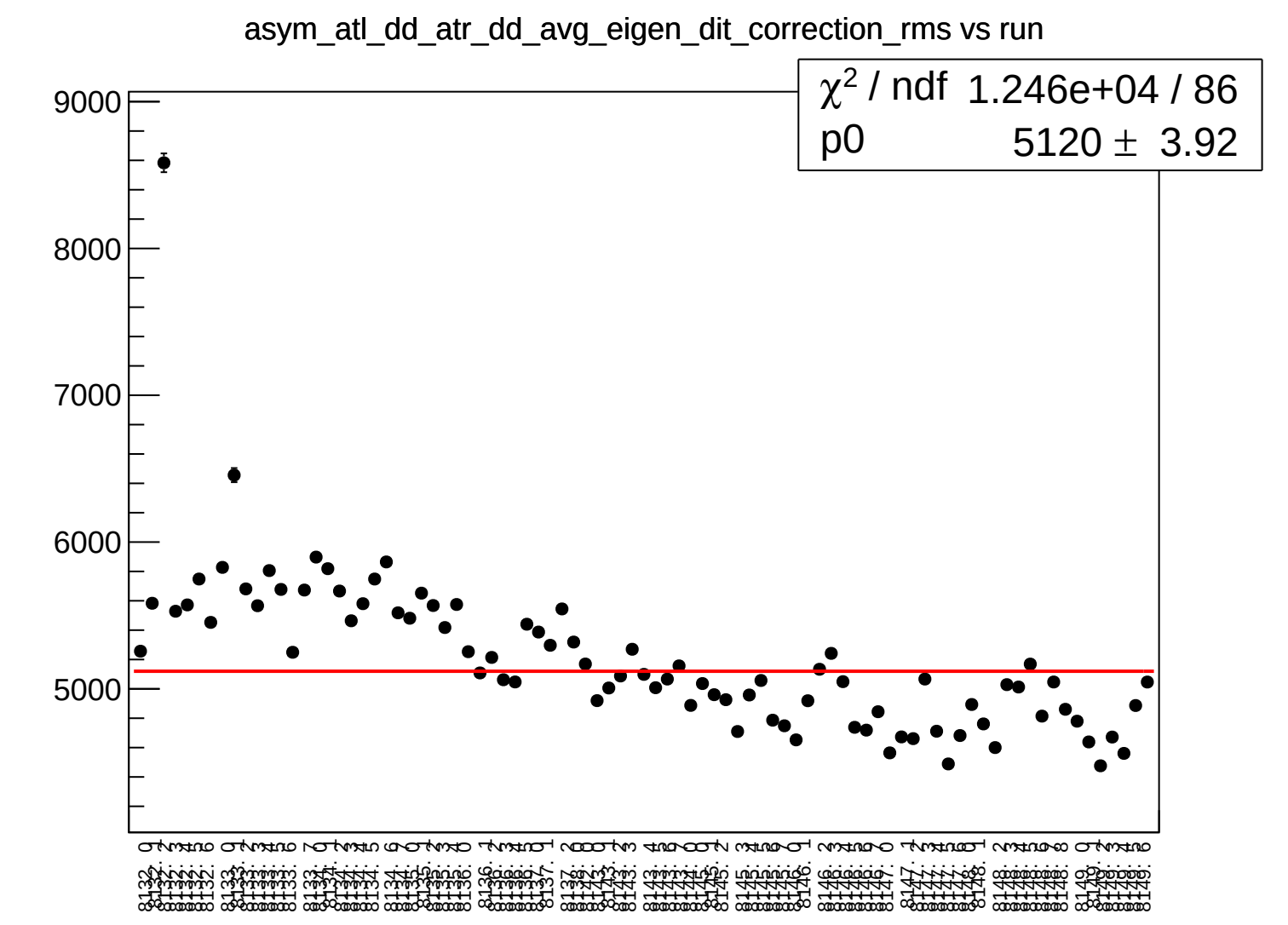

eigen_dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 74.9 / 86
p0 −755.4 ± 1386
pull
Entries 87
Mean −1873
Std Dev 0

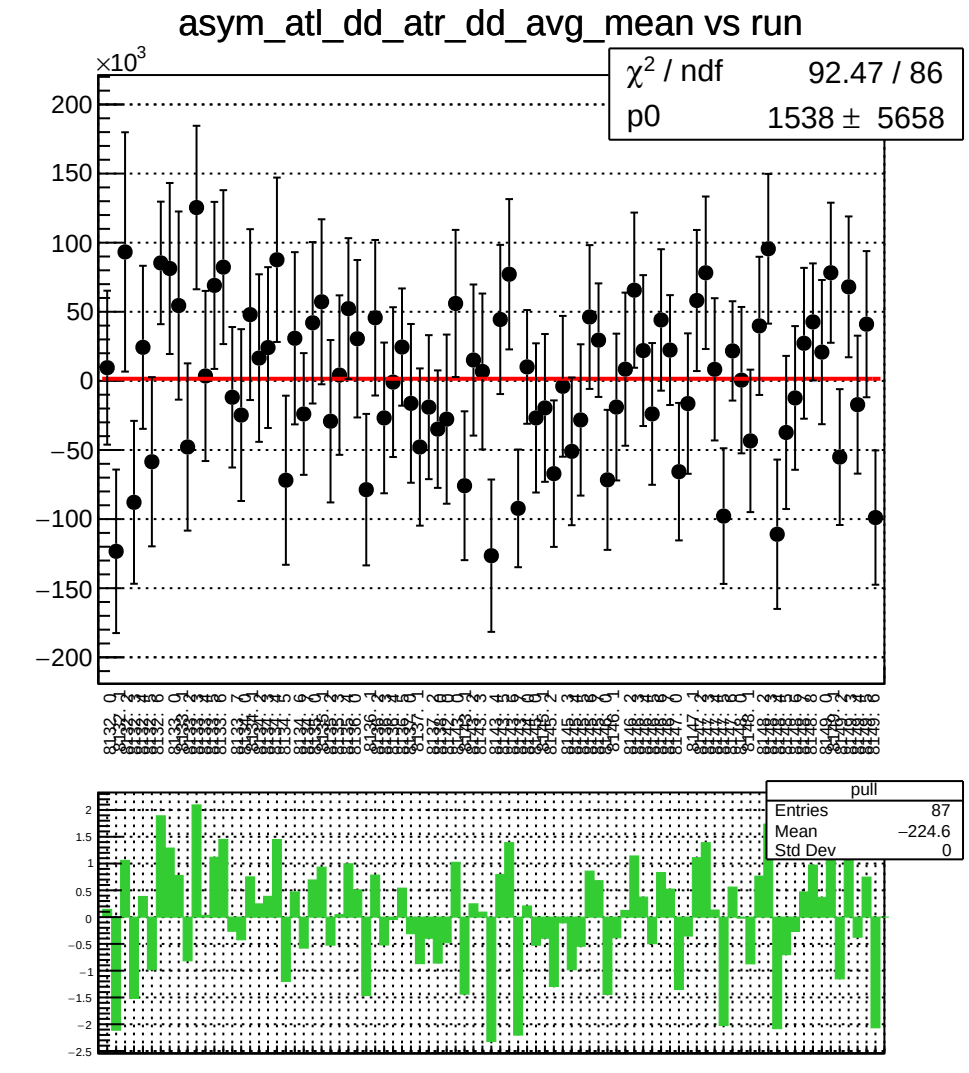

pull1D
Entries 87
Mean −0.001515
Std Dev 0.9278

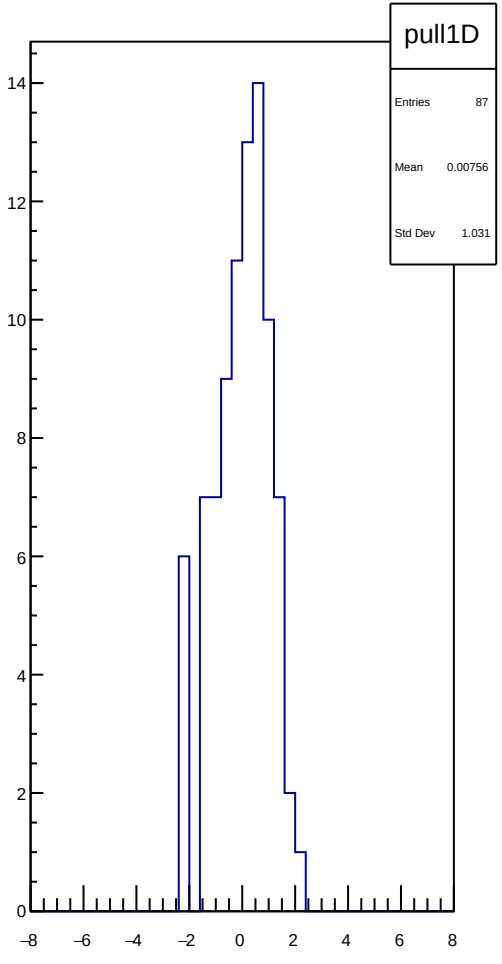

eigen_dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 3043 / 86
p0 1284 ± 0.98
1800
1700
1600
1500
1400
1300
1200

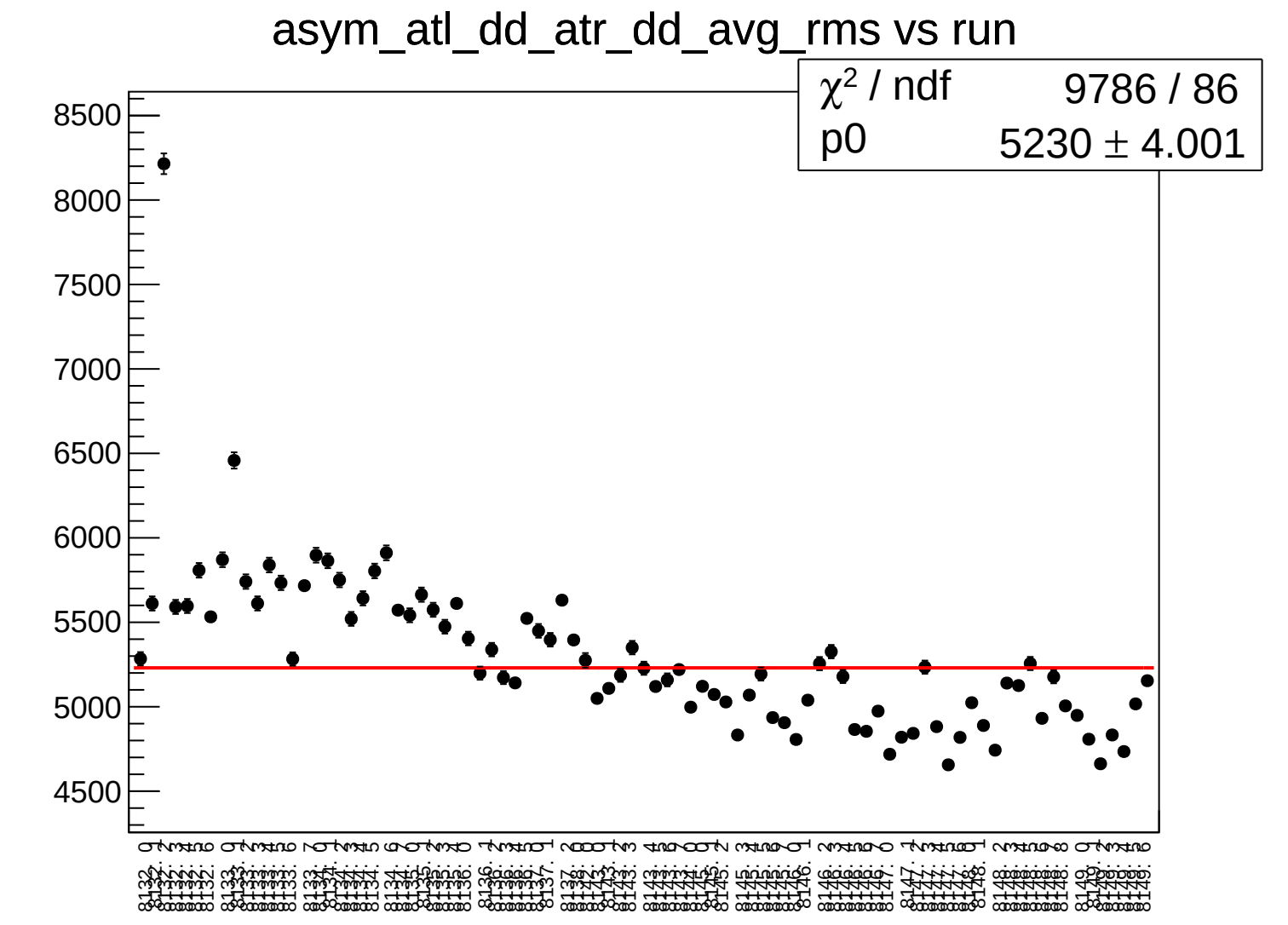

asym_atl_dd_atr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 92.35 / 86
p0 −2049 ± 5543
pull
Entries 87
Mean −237.1
Std Dev 0

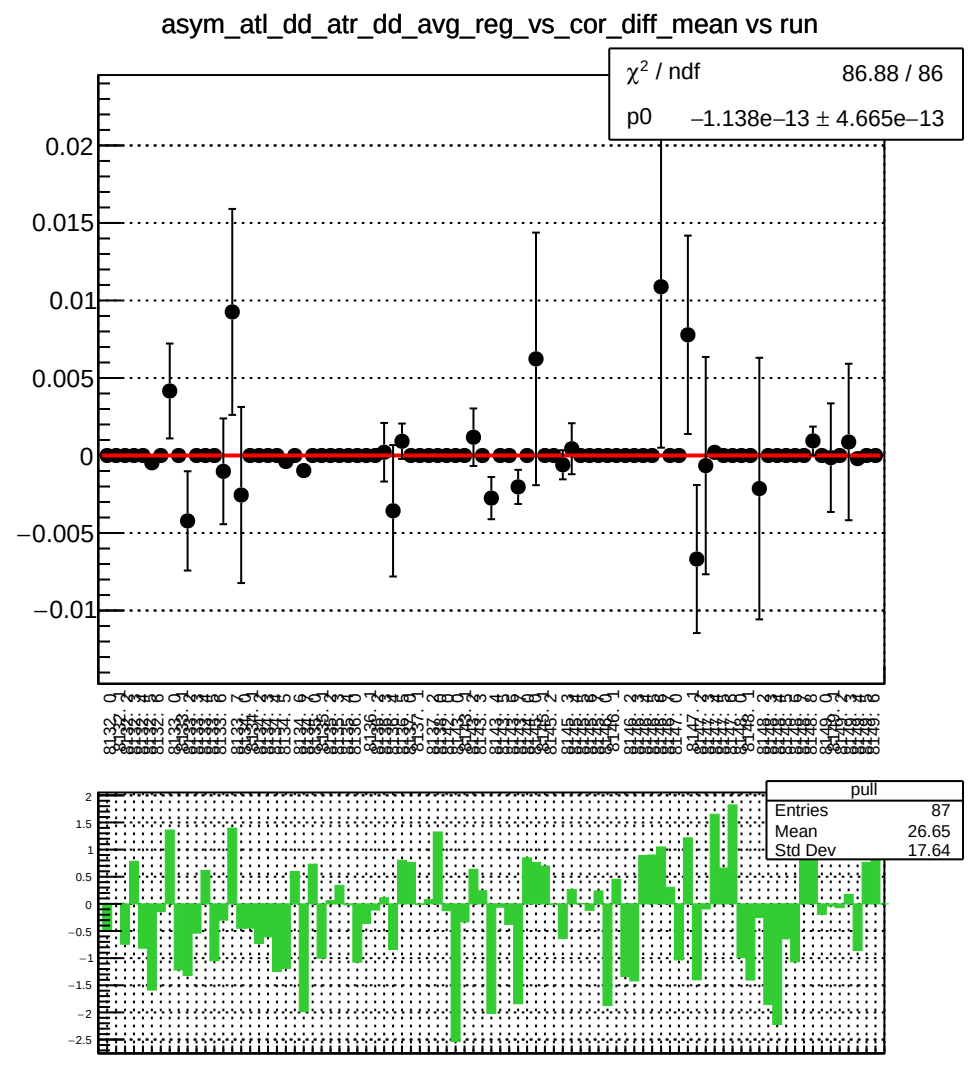

pull1D
Entries 87
Mean −0.009916
Std Dev 1.03

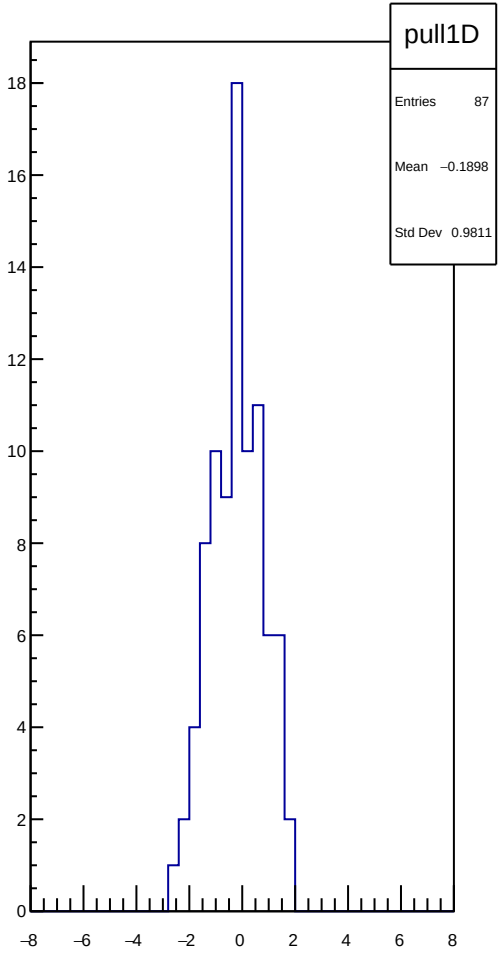

asym_atl_dd_atr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.246e+04 / 86
p0 5120 ± 3.92
9000
8000
7000
6000
5000

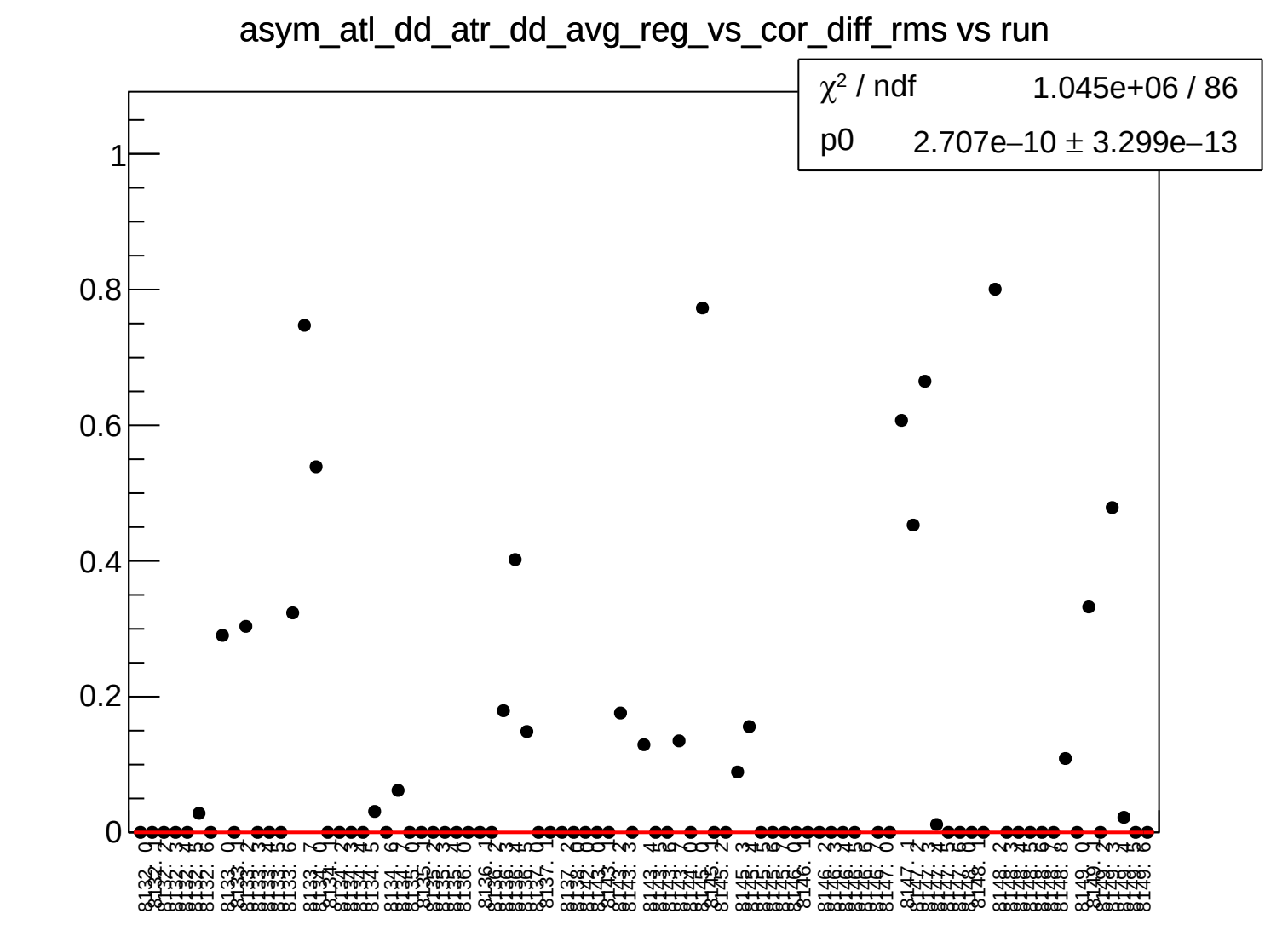

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 92.47 / 86
p0 1538 ± 5658
pull
Entries 87
Mean −224.6
Std Dev 0

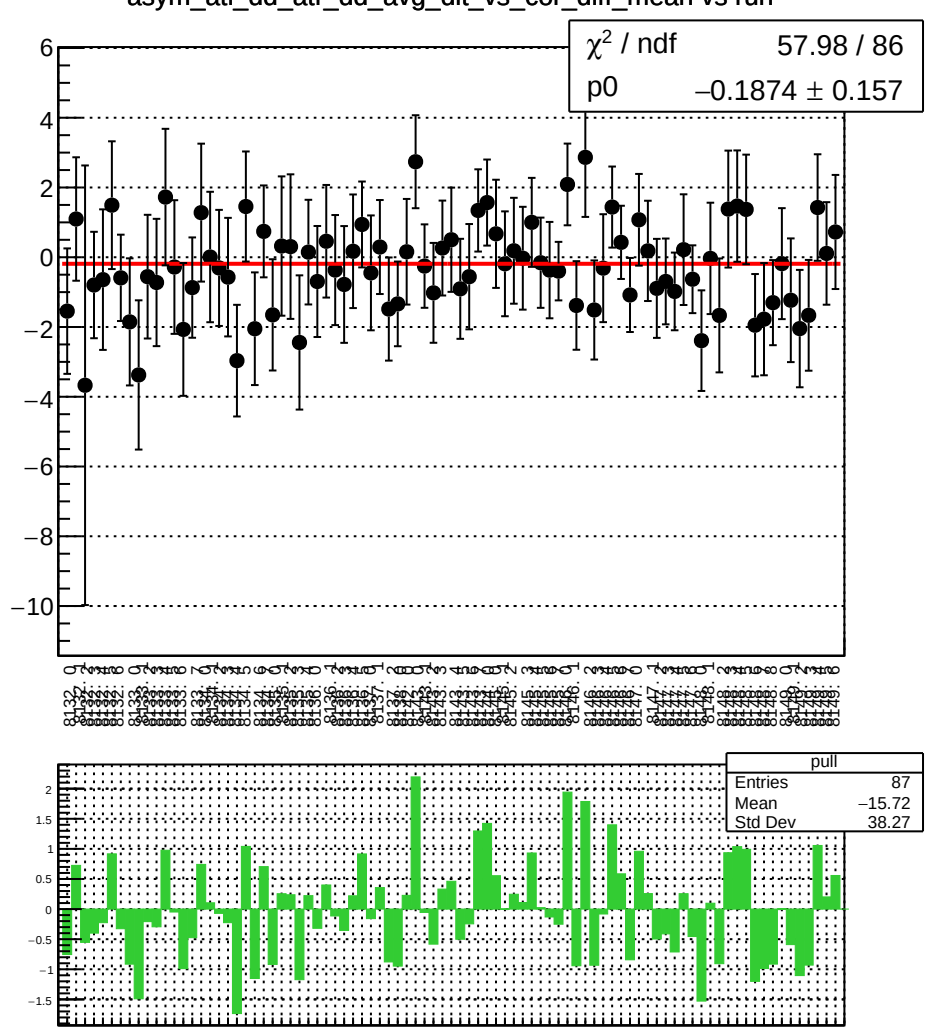

pull1D
Entries 87
Mean 0.00756
Std Dev 1.031

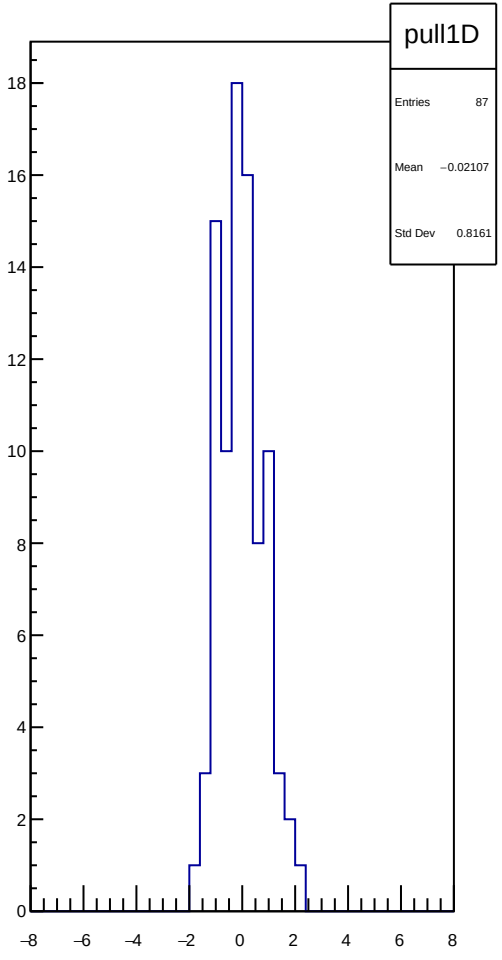

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 9786 / 86
p0 5230 ± 4.001
8500
8000
7500
7000
6500
6000
5500
5000
4500

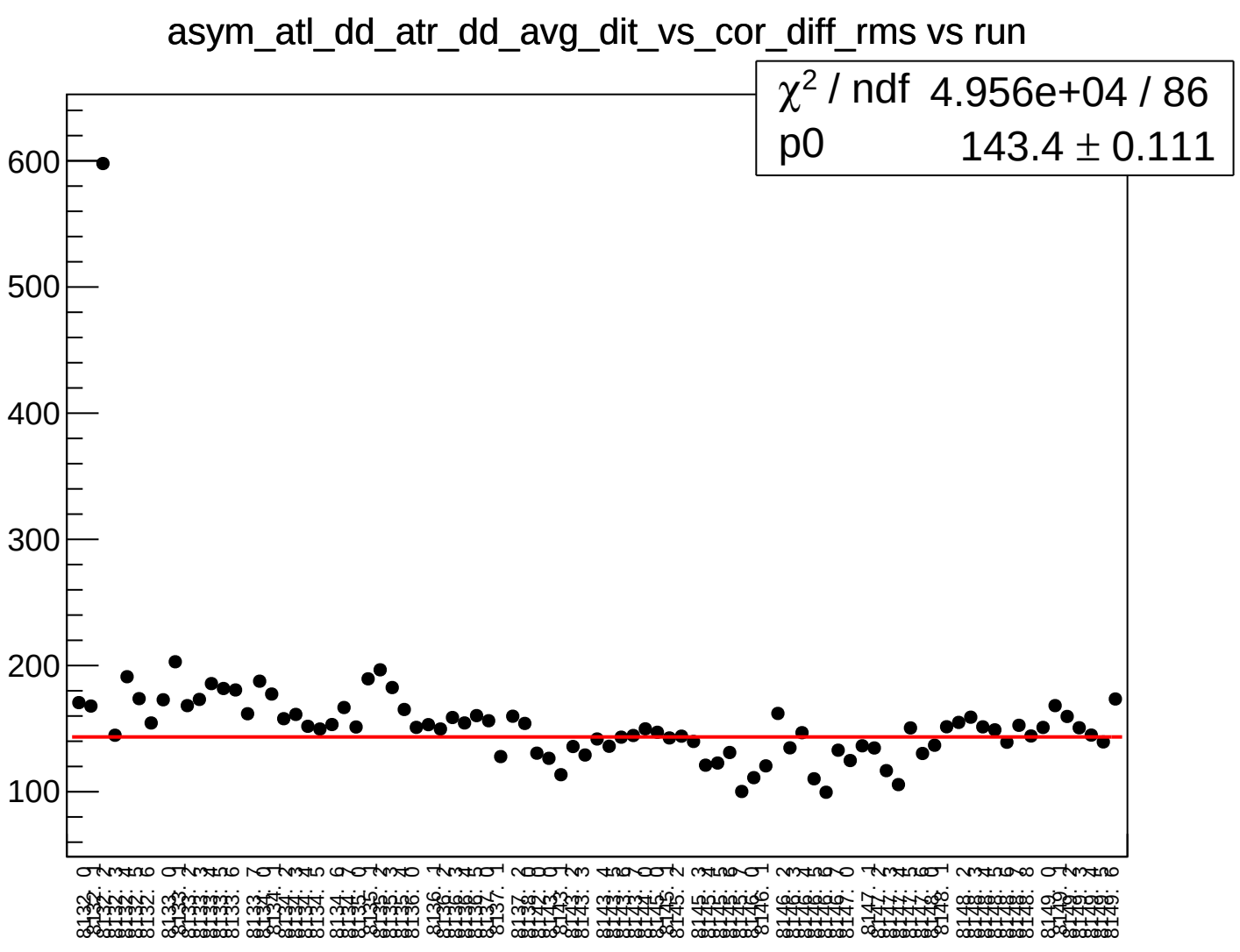

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 86.88 / 86
p0 −1.138e−13 ± 4.665e−13
pull
Entries 87
Mean 26.65
Std Dev 17.64

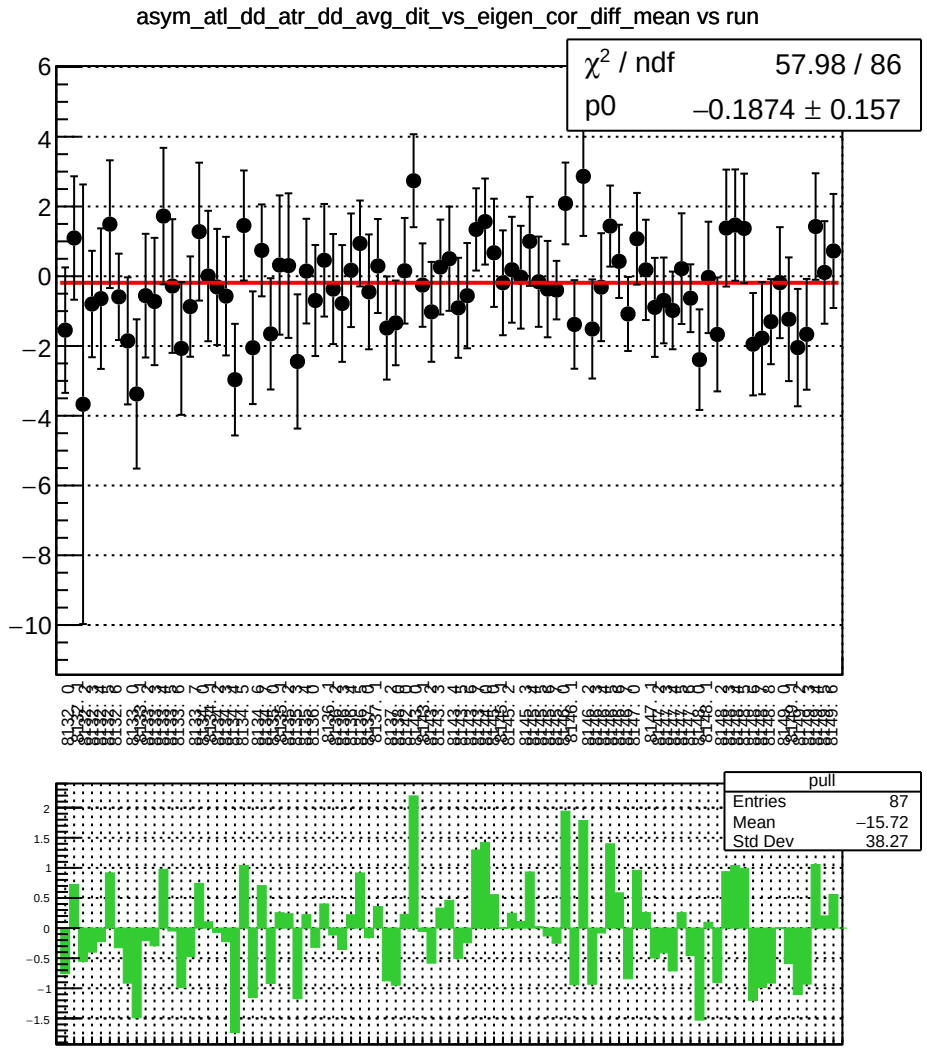

pull1D
Entries 87
Mean −0.1898
Std Dev 0.9811

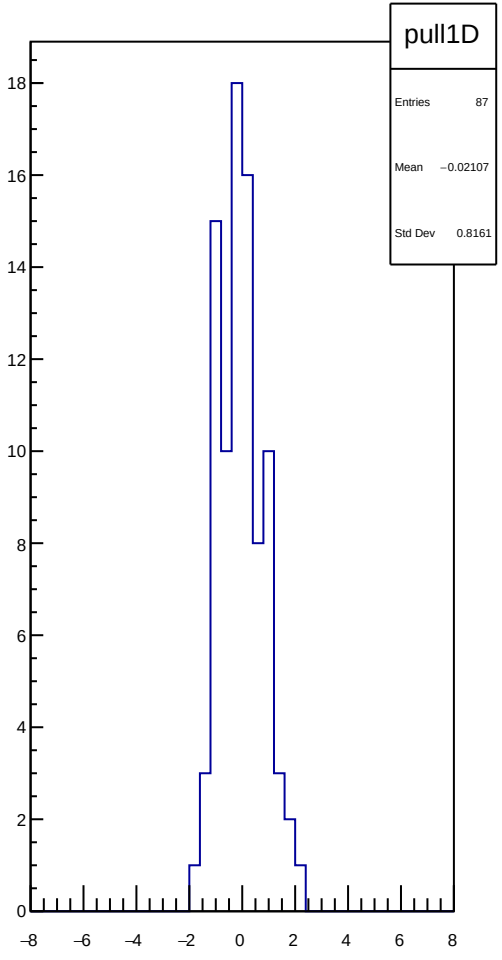

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.045e+06 / 86
p0 2.707e−10 ± 3.299e−13
1
0.8
0.6
0.4
0.2
0

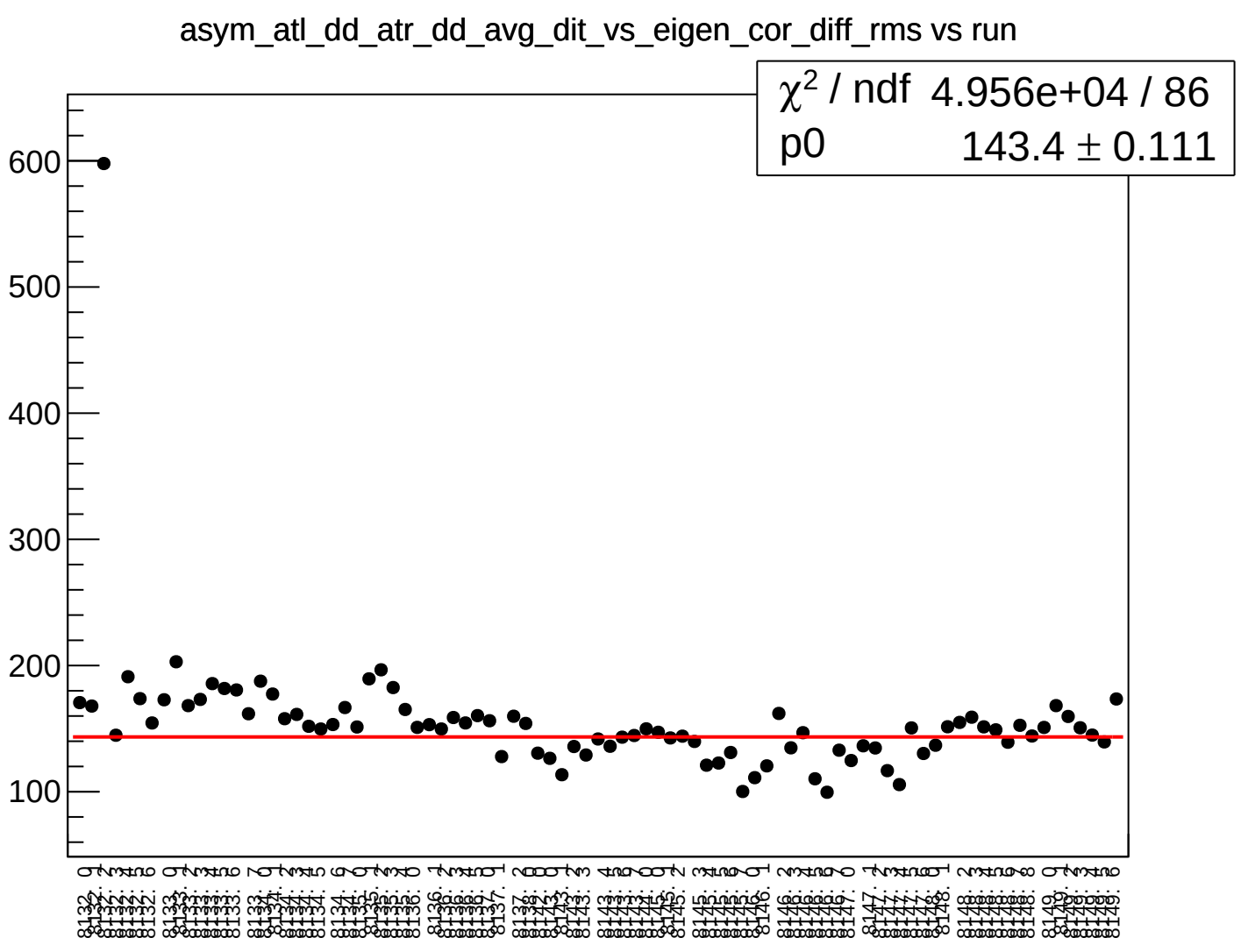

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 57.98 / 86
p0 −0.1874 ± 0.157
pull
Entries 87
Mean −15.72
Std Dev 38.27

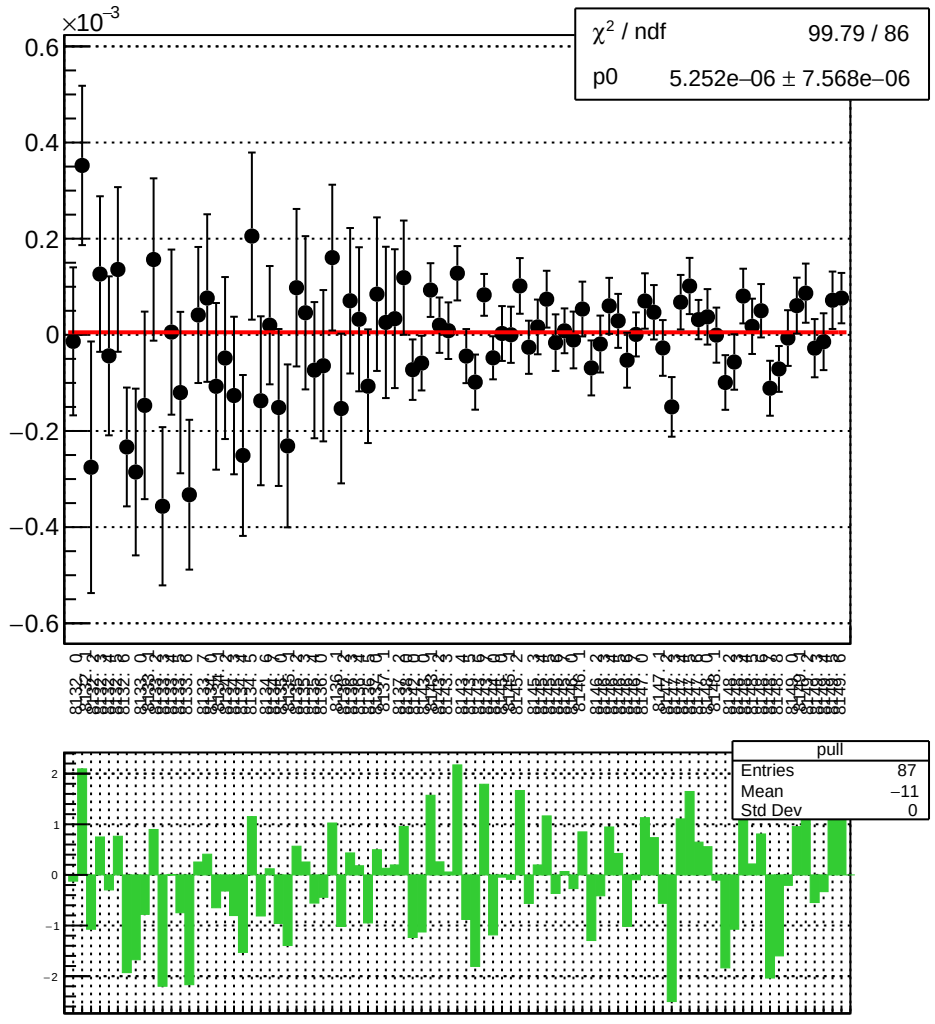

pull1D
Entries 87
Mean −0.02107
Std Dev 0.8161

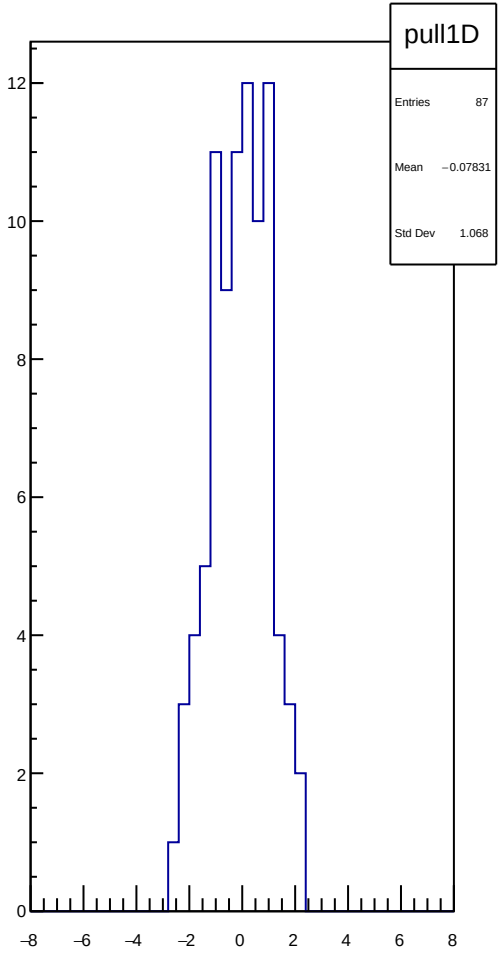

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.956e+04 / 86
p0 143.4 ± 0.111
600
500
400
300
200
100

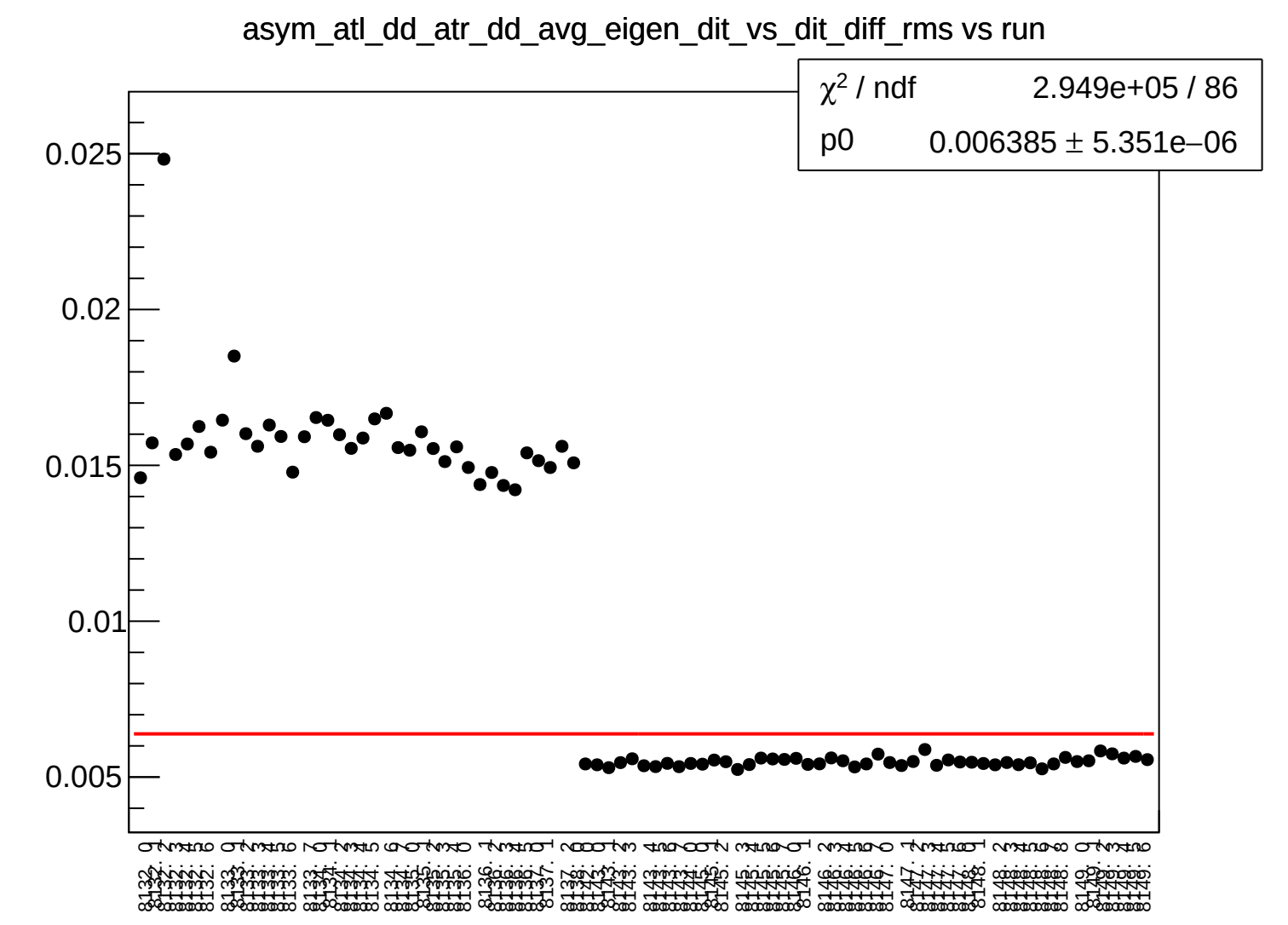

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 57.98 / 86
p0 −0.1874 ± 0.157
pull
Entries 87
Mean −15.72
Std Dev 38.27

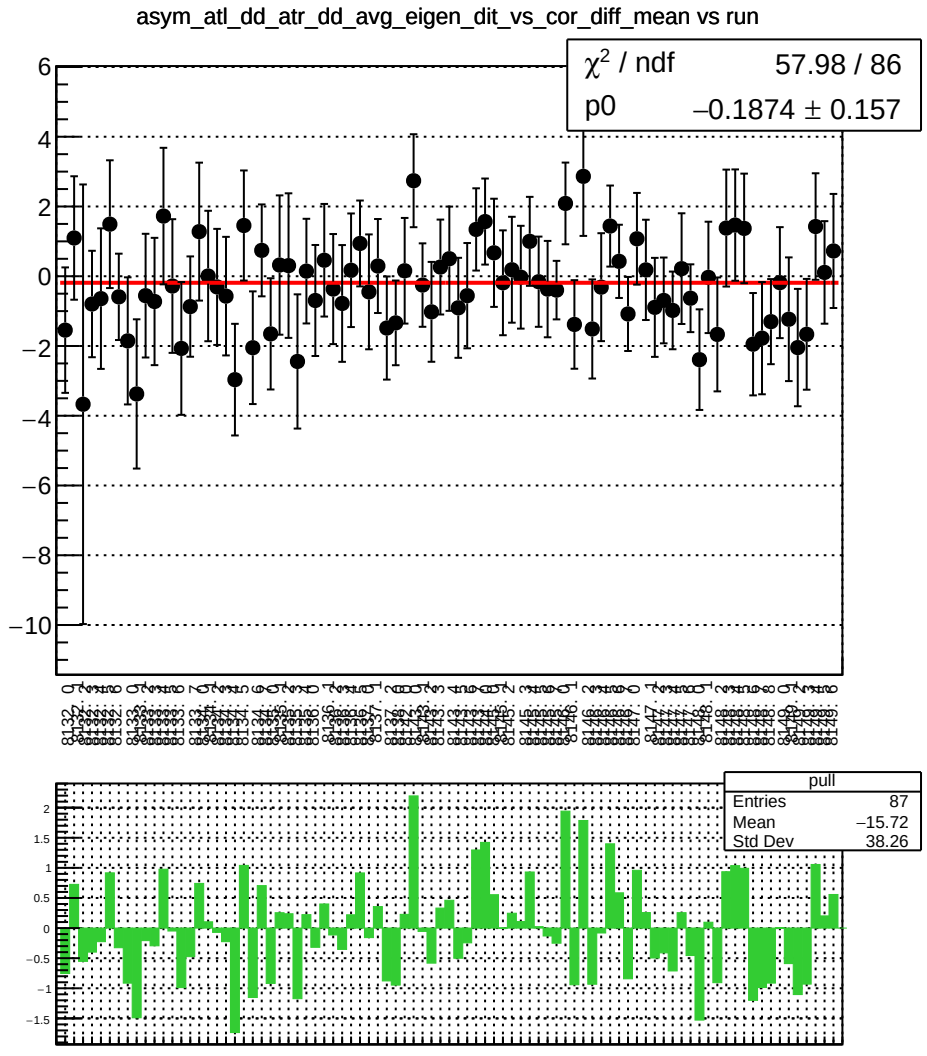

pull1D
Entries 87
Mean −0.02107
Std Dev 0.8161

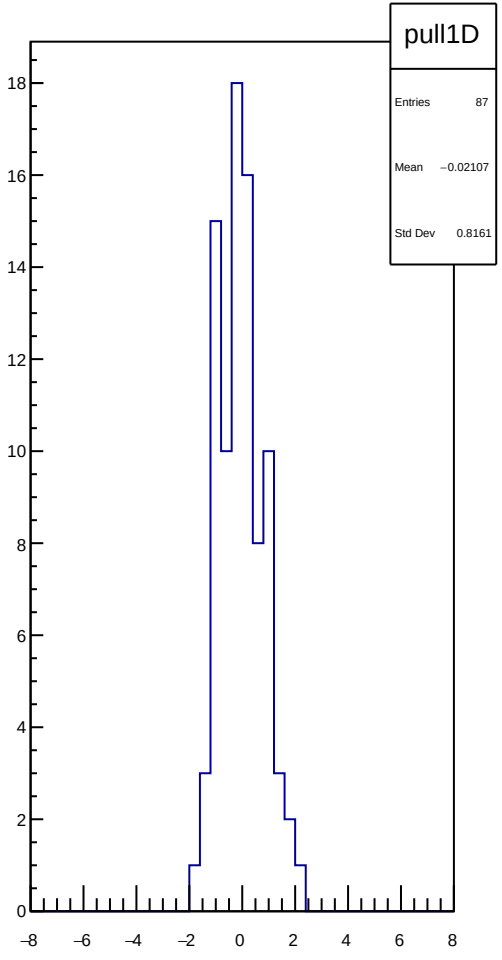

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.956e+04 / 86
p0 143.4 ± 0.111
600
500
400
300
200
100

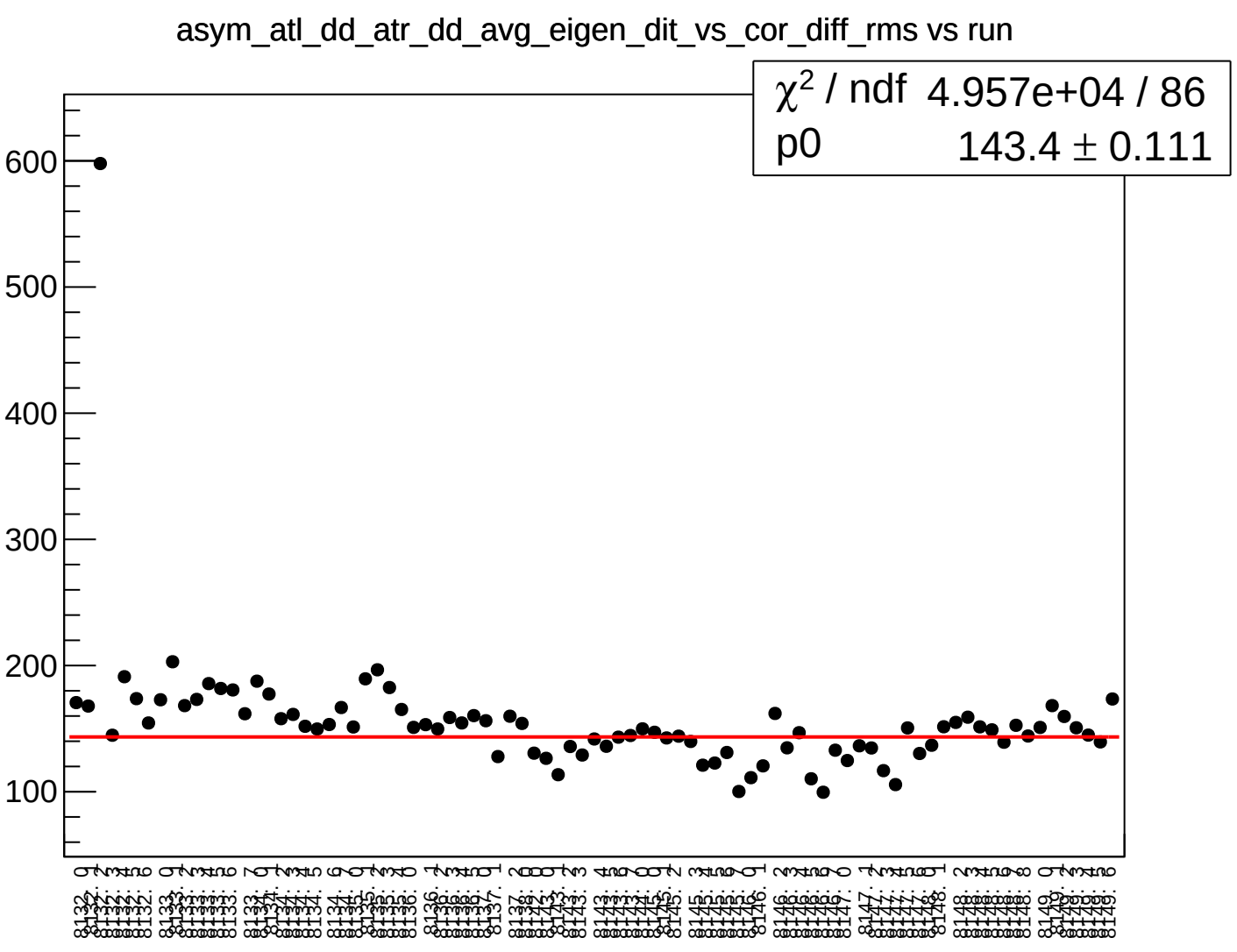

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.79 / 86
p0 5.252e−06 ± 7.568e−06
pull
Entries 87
Mean −11
Std Dev 0

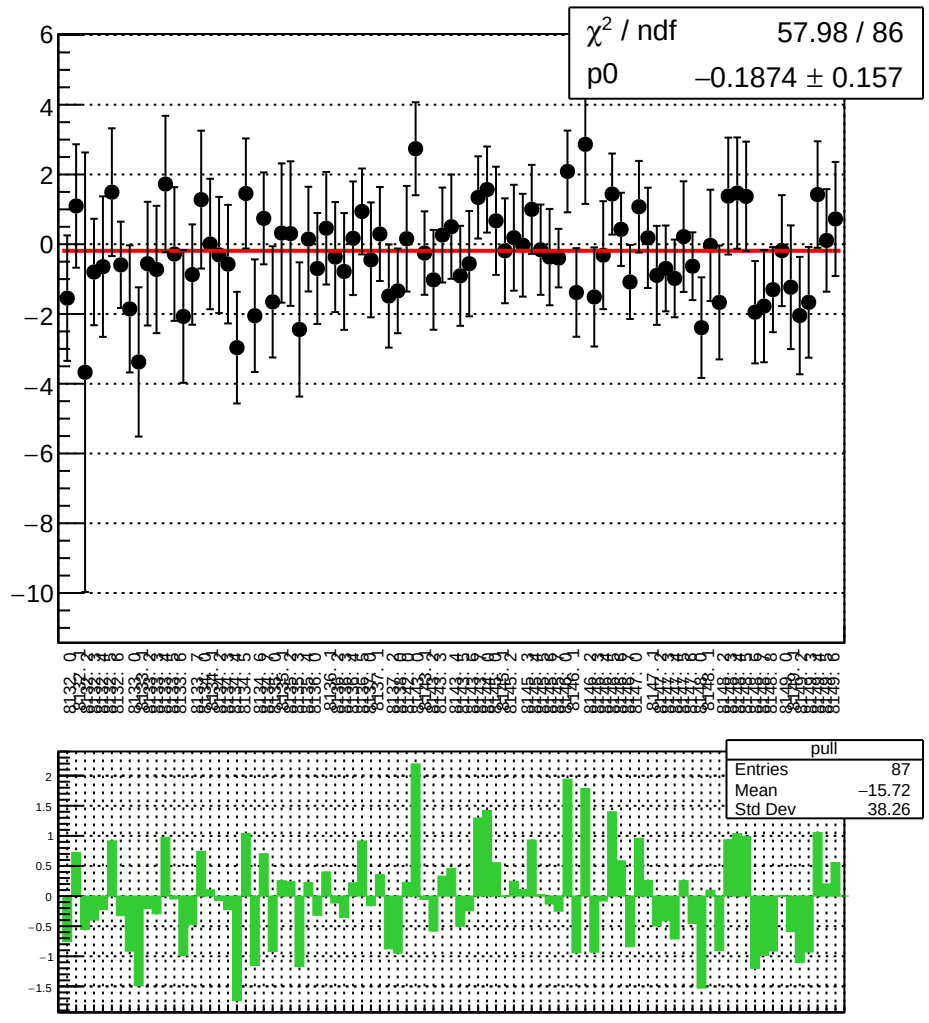

pull1D
Entries 87
Mean −0.07831
Std Dev 1.068

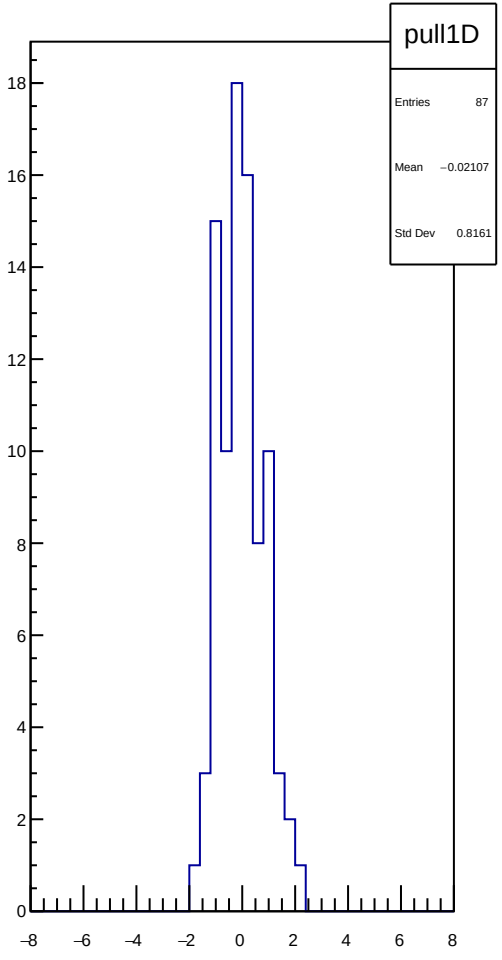

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.949e+05 / 86
p0 0.006385 ± 5.351e−06
0.025
0.02
0.015
0.01
0.005

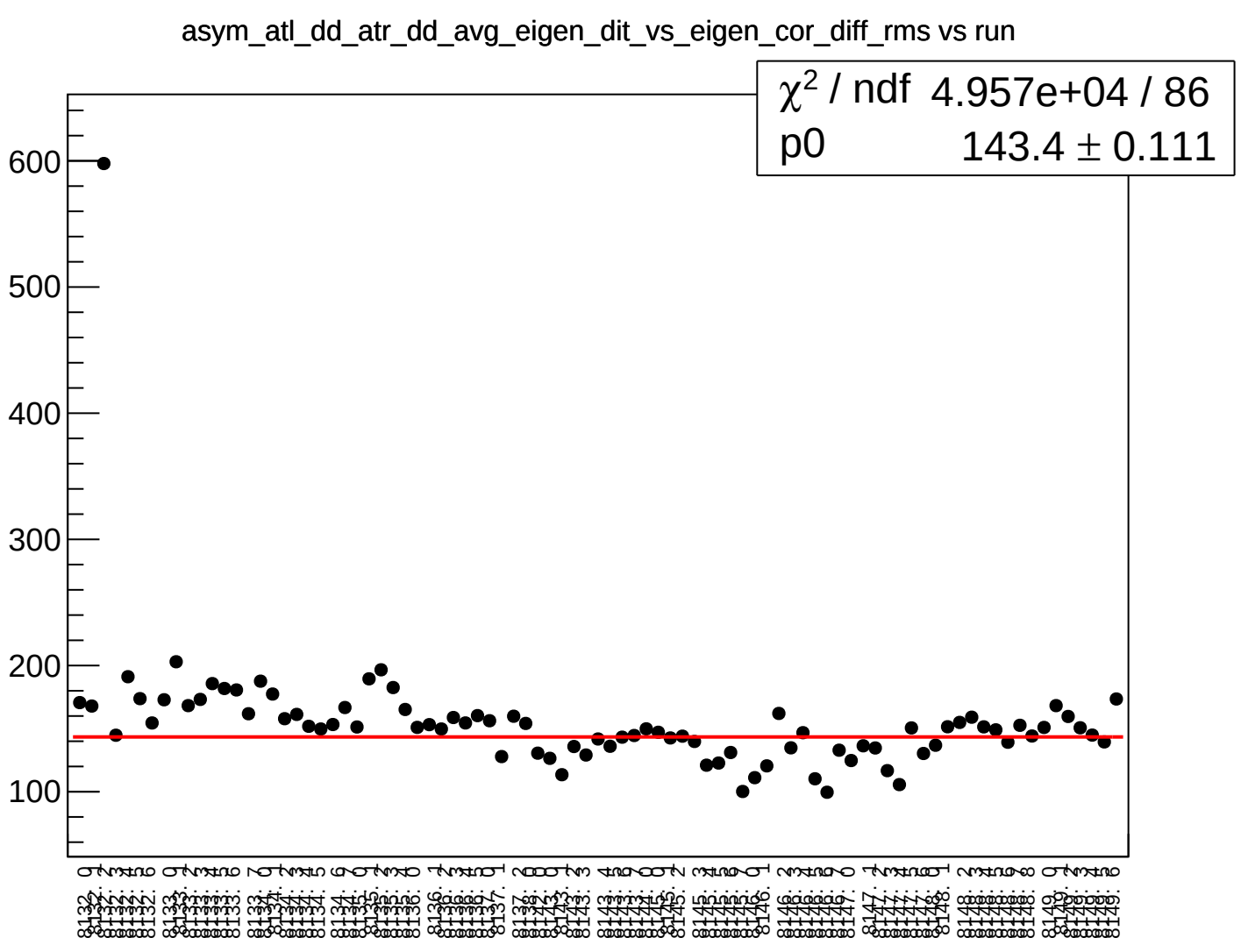

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 57.98 / 86
p0 −0.1874 ± 0.157
pull
Entries 87
Mean −15.72
Std Dev 38.26

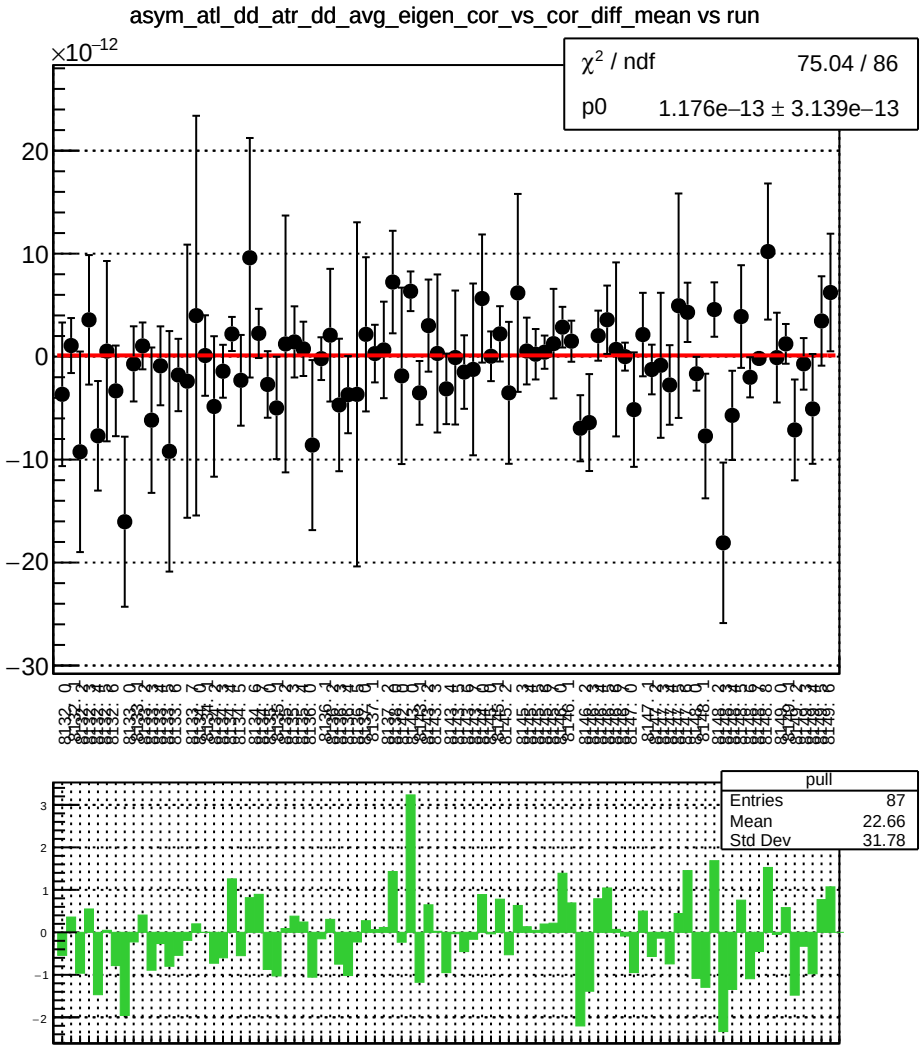

pull1D
Entries 87
Mean −0.02107
Std Dev 0.8161

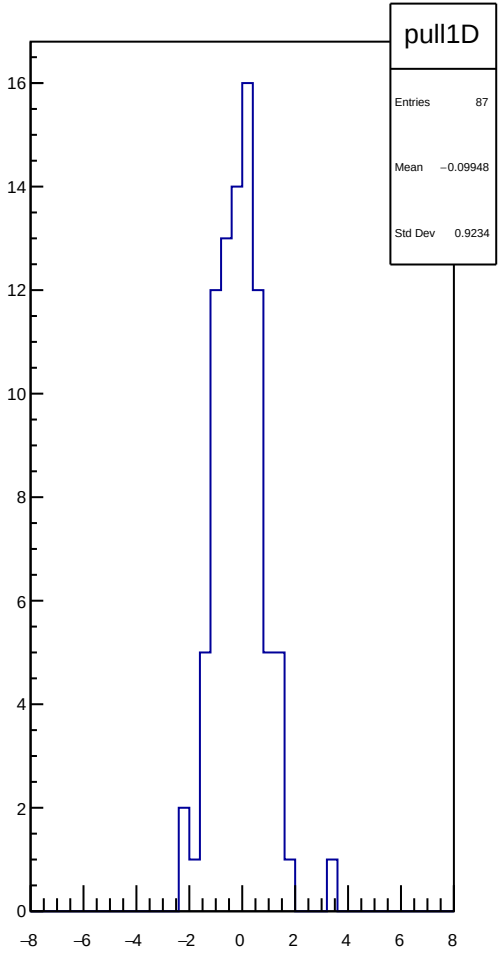

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.957e+04 / 86
p0 143.4 ± 0.111
600
500
400
300
200
100

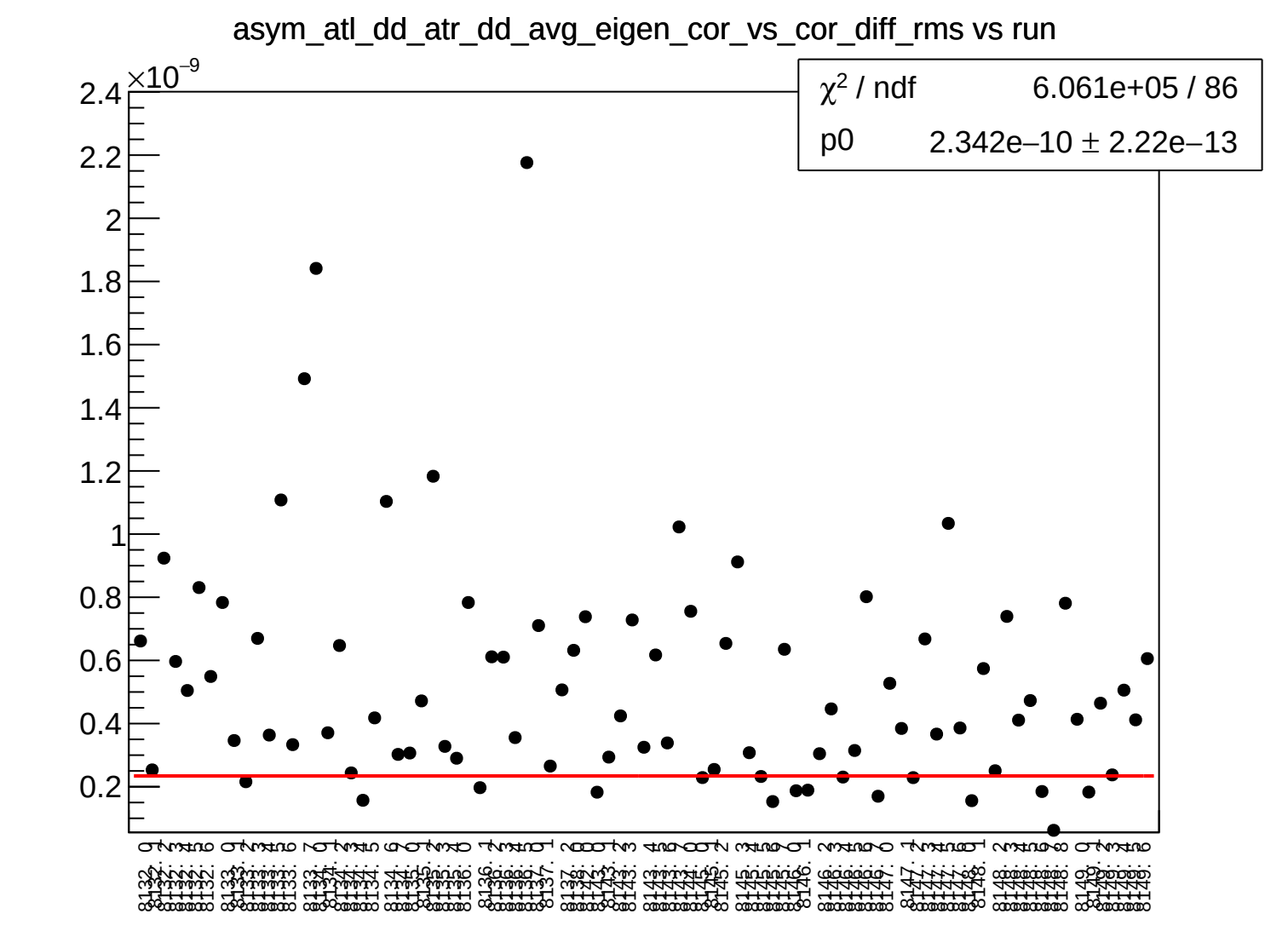

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 57.98 / 86
p0 −0.1874 ± 0.157
pull
Entries 87
Mean −15.72
Std Dev 38.26

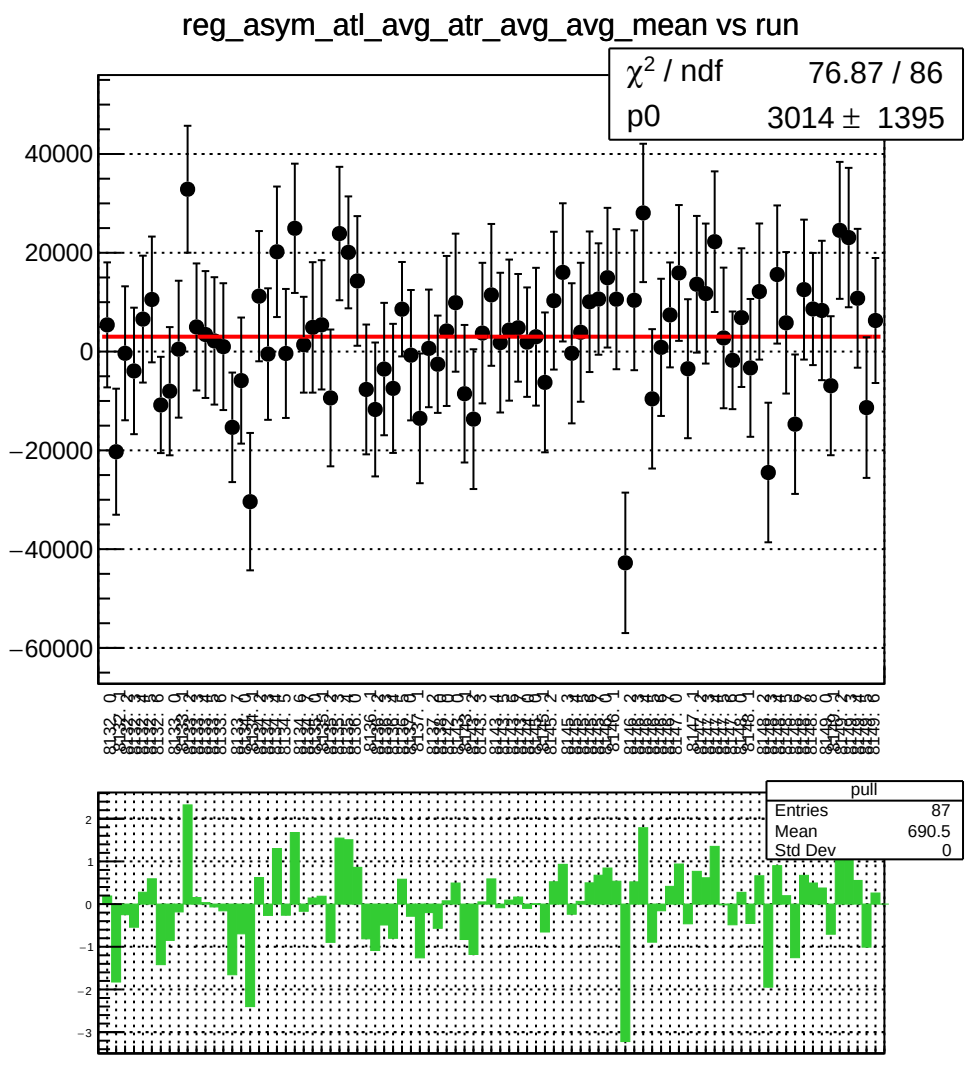

pull1D
Entries 87
Mean −0.02107
Std Dev 0.8161

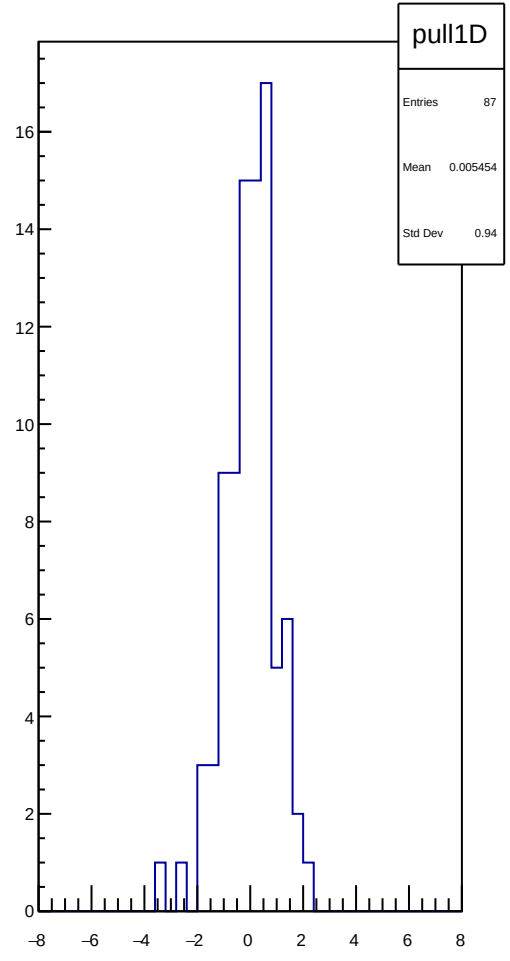

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.957e+04 / 86
p0 143.4 ± 0.111
600
500
400
300
200
100

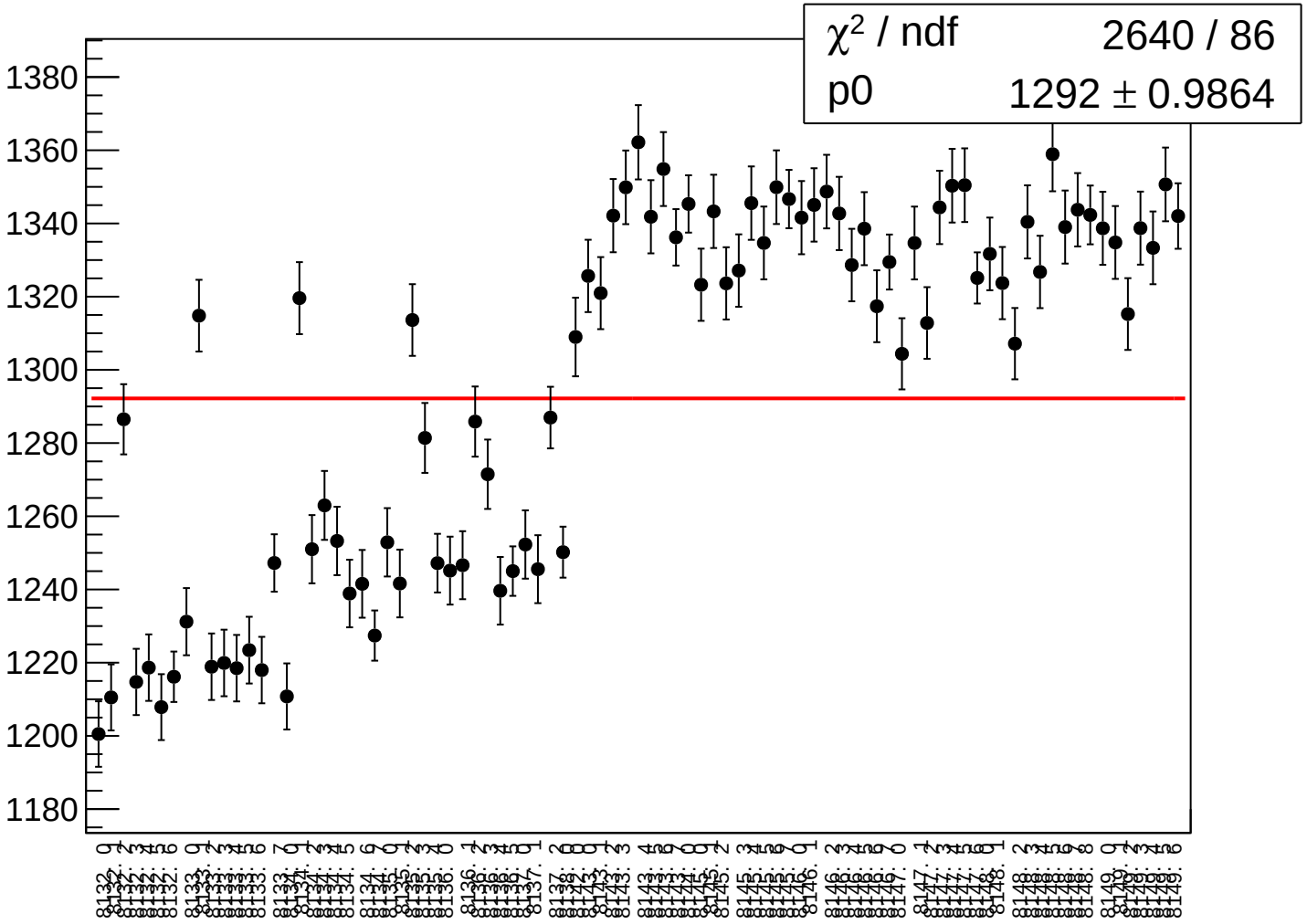

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 75.04 / 86
p0 1.176e−13 ± 3.139e−13
pull
Entries 87
Mean 22.66
Std Dev 31.78

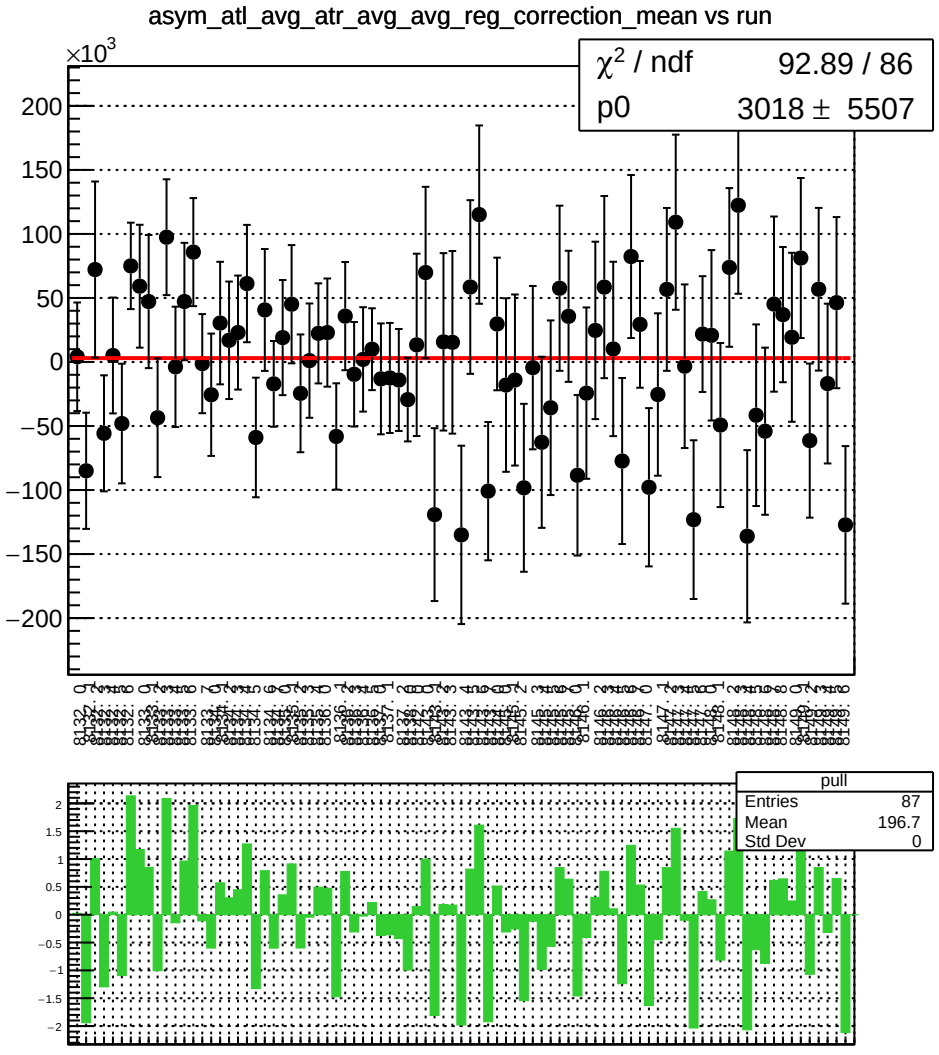

pull1D
Entries 87
Mean −0.09948
Std Dev 0.9234

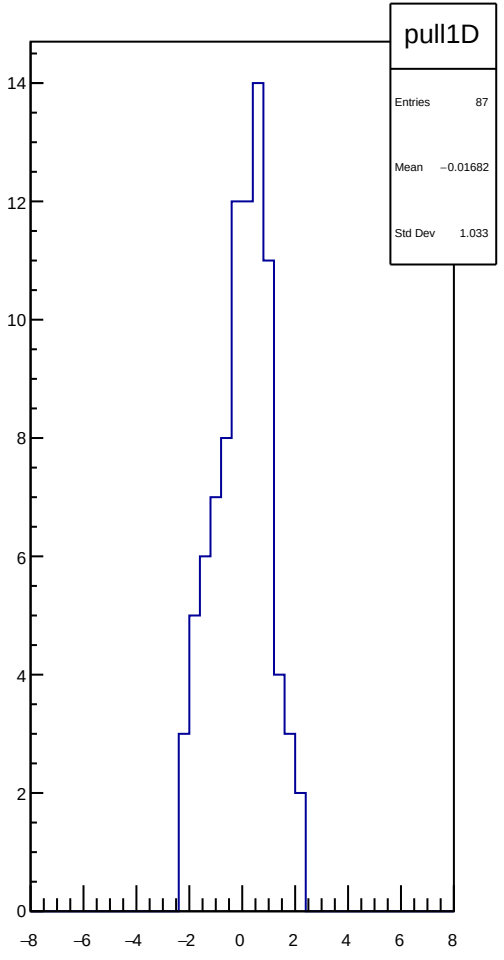

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.061e+05 / 86
p0 2.342e−10 ± 2.22e−13
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

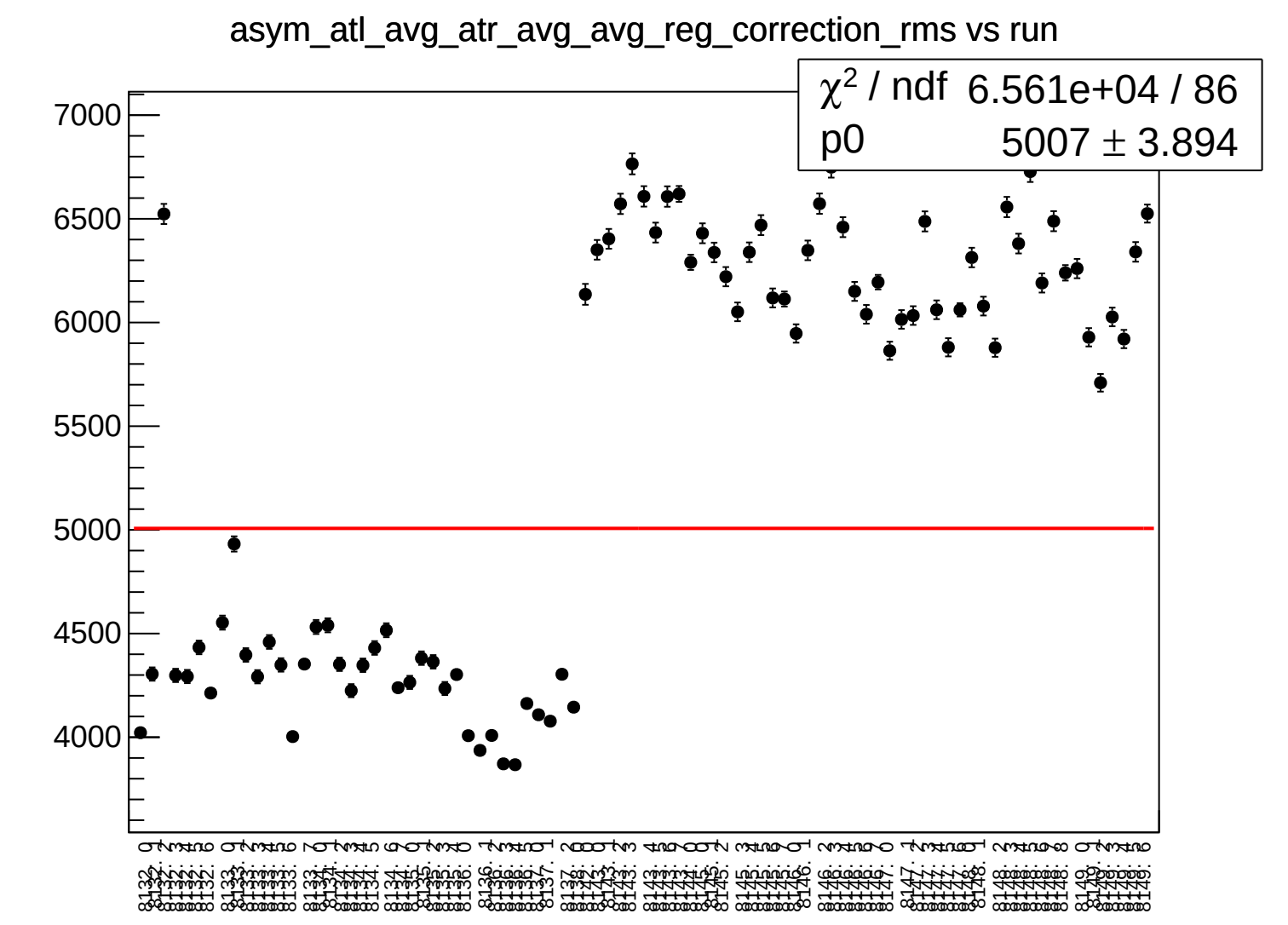

reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 76.87 / 86
p0 3014 ± 1395
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 690.5
Std Dev 0
2
1
0
−1
−2
−3

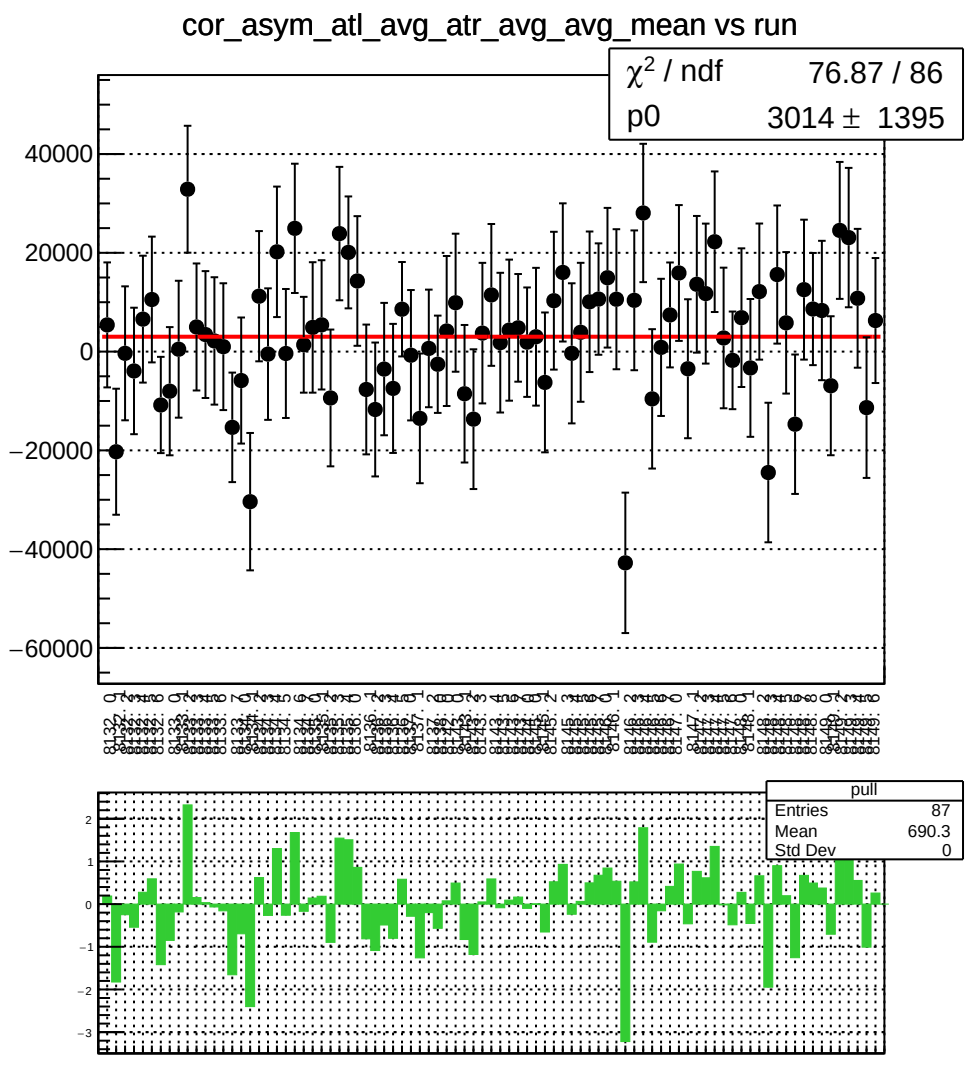

pull1D
Entries 87
Mean 0.005454
Std Dev 0.94
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

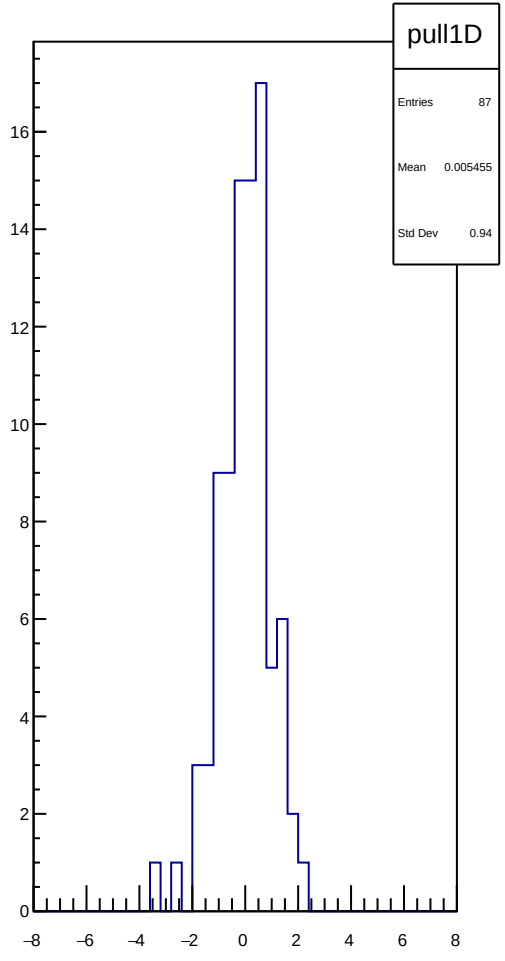

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 2640 / 86
p0 1292 ± 0.9864
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200
1180

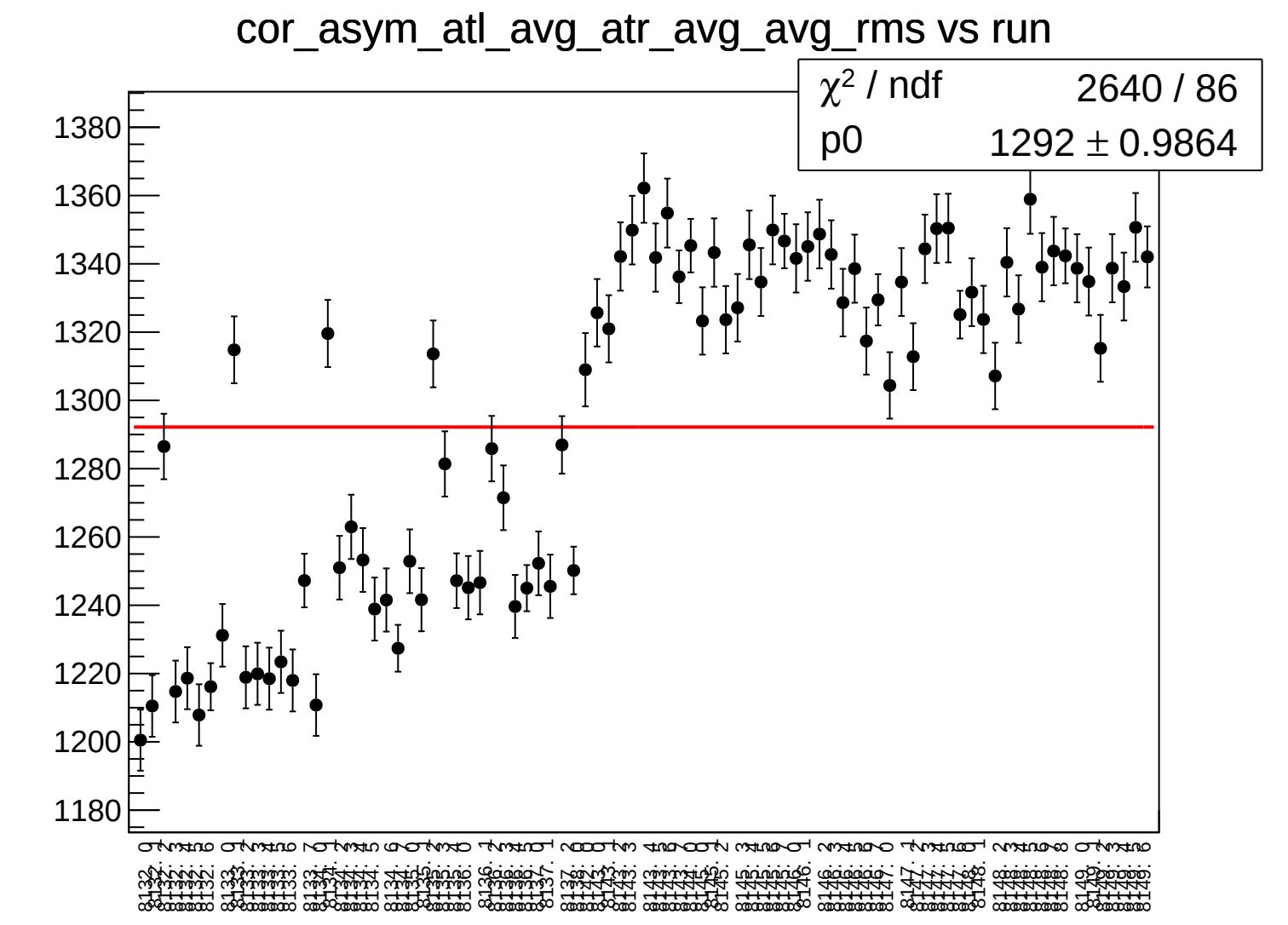

asym_atl_avg_atr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 92.89 / 86
p0 3018 ± 5507
pull
Entries 87
Mean 196.7
Std Dev 0

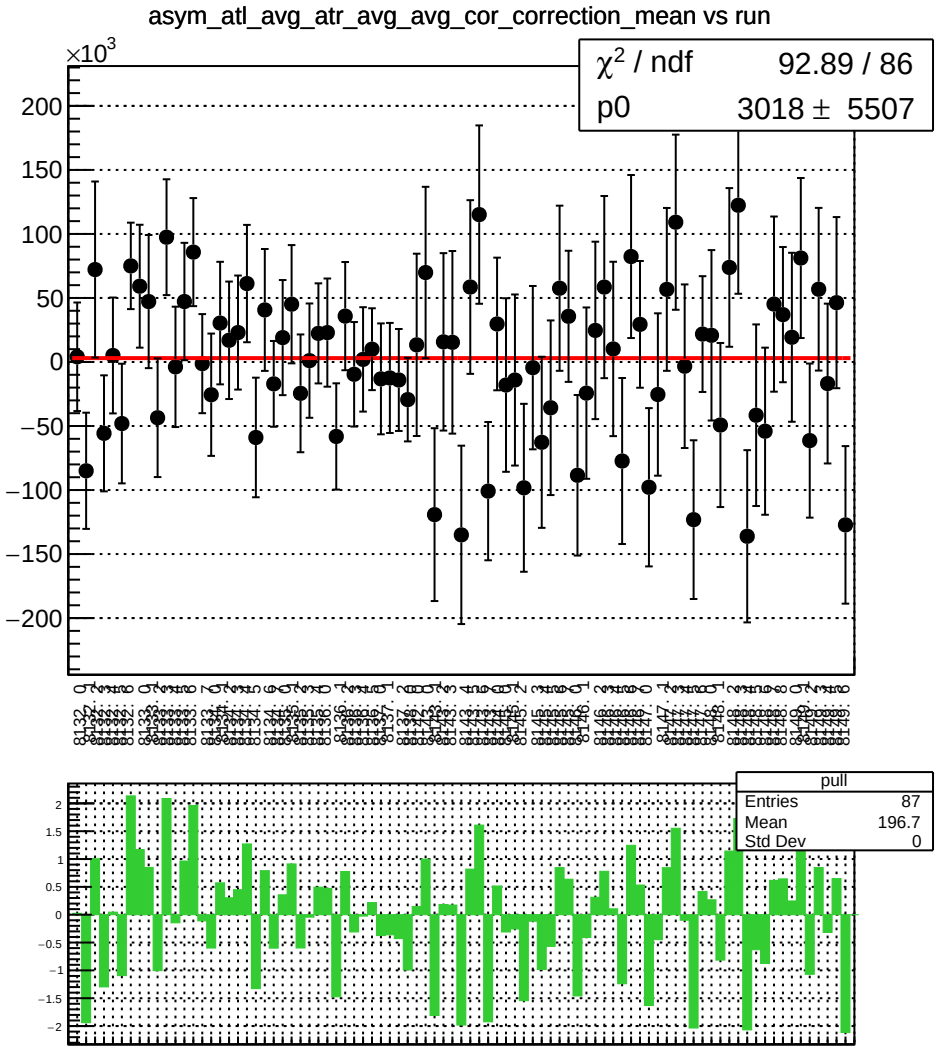

pull1D
Entries 87
Mean −0.01682
Std Dev 1.033

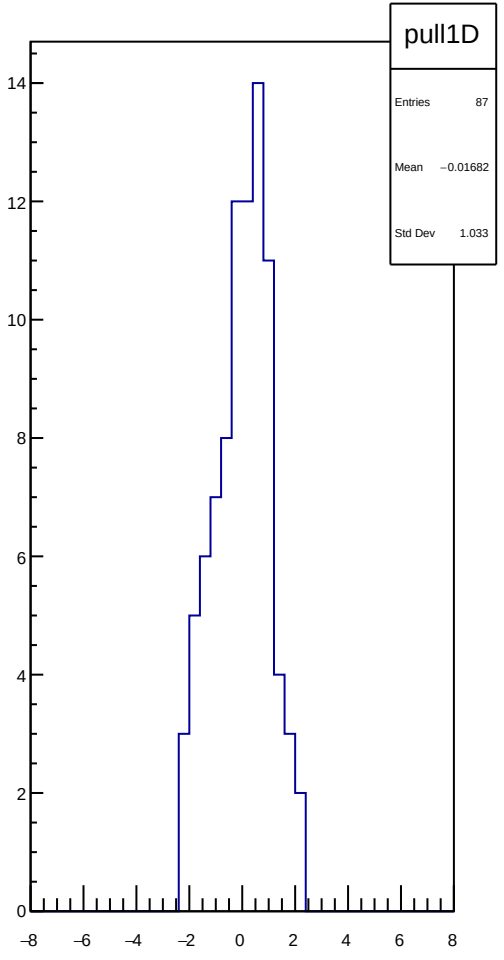

asym_atl_avg_atr_avg_avg_reg_correction_rms vs run
χ² / ndf 6.561e+04 / 86
p0 5007 ± 3.894
7000
6500
6000
5500
5000
4500
4000

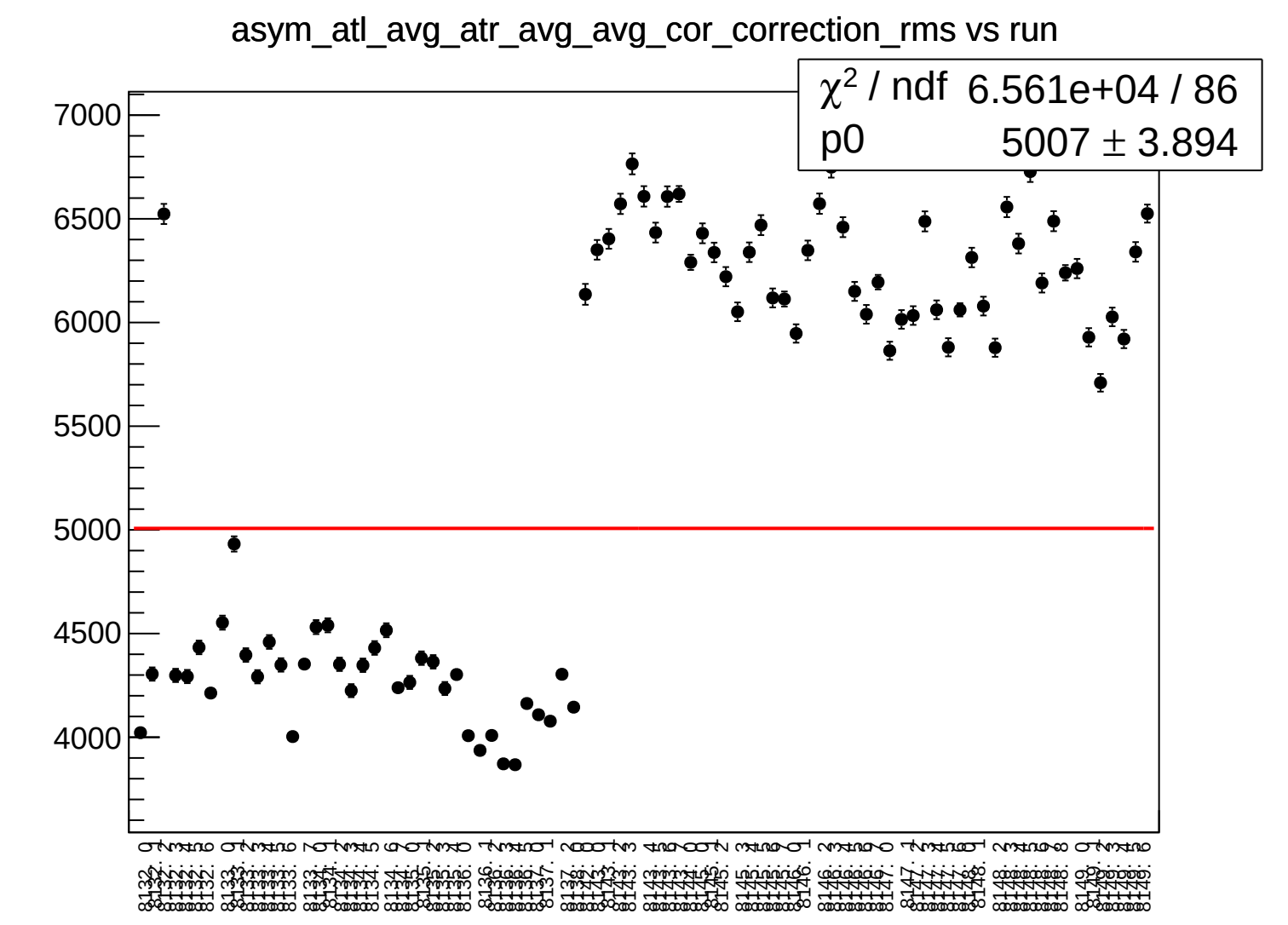

cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 76.87 / 86
p0 3014 ± 1395
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 690.3
Std Dev 0
2
1
0
−1
−2
−3

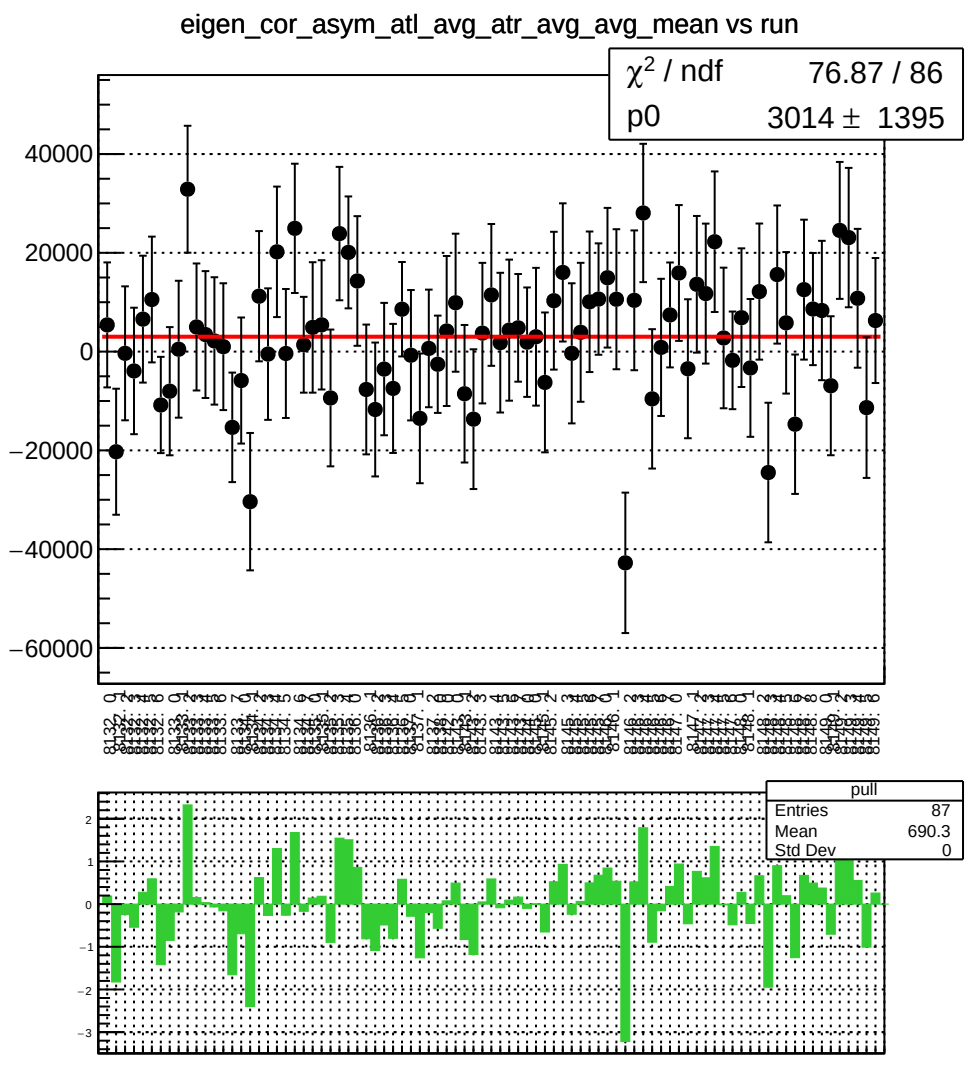

pull1D
Entries 87
Mean 0.005455
Std Dev 0.94
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

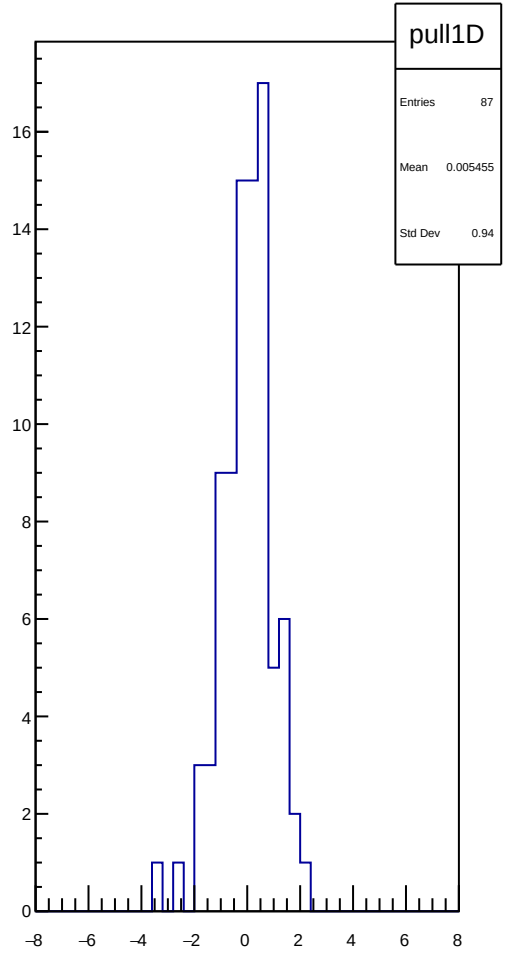

cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 2640 / 86
p0 1292 ± 0.9864
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200
1180


asym_atl_avg_atr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 92.89 / 86
p0 3018 ± 5507
pull
Entries 87
Mean 196.7
Std Dev 0


pull1D
Entries 87
Mean −0.01682
Std Dev 1.033


asym_atl_avg_atr_avg_avg_cor_correction_rms vs run
χ² / ndf 6.561e+04 / 86
p0 5007 ± 3.894
7000
6500
6000
5500
5000
4500
4000


eigen_cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 76.87 / 86
p0 3014 ± 1395
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 690.3
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 87
Mean 0.005455
Std Dev 0.94
16
14
12
10
8
6
4
2
0
−8
−6
−4
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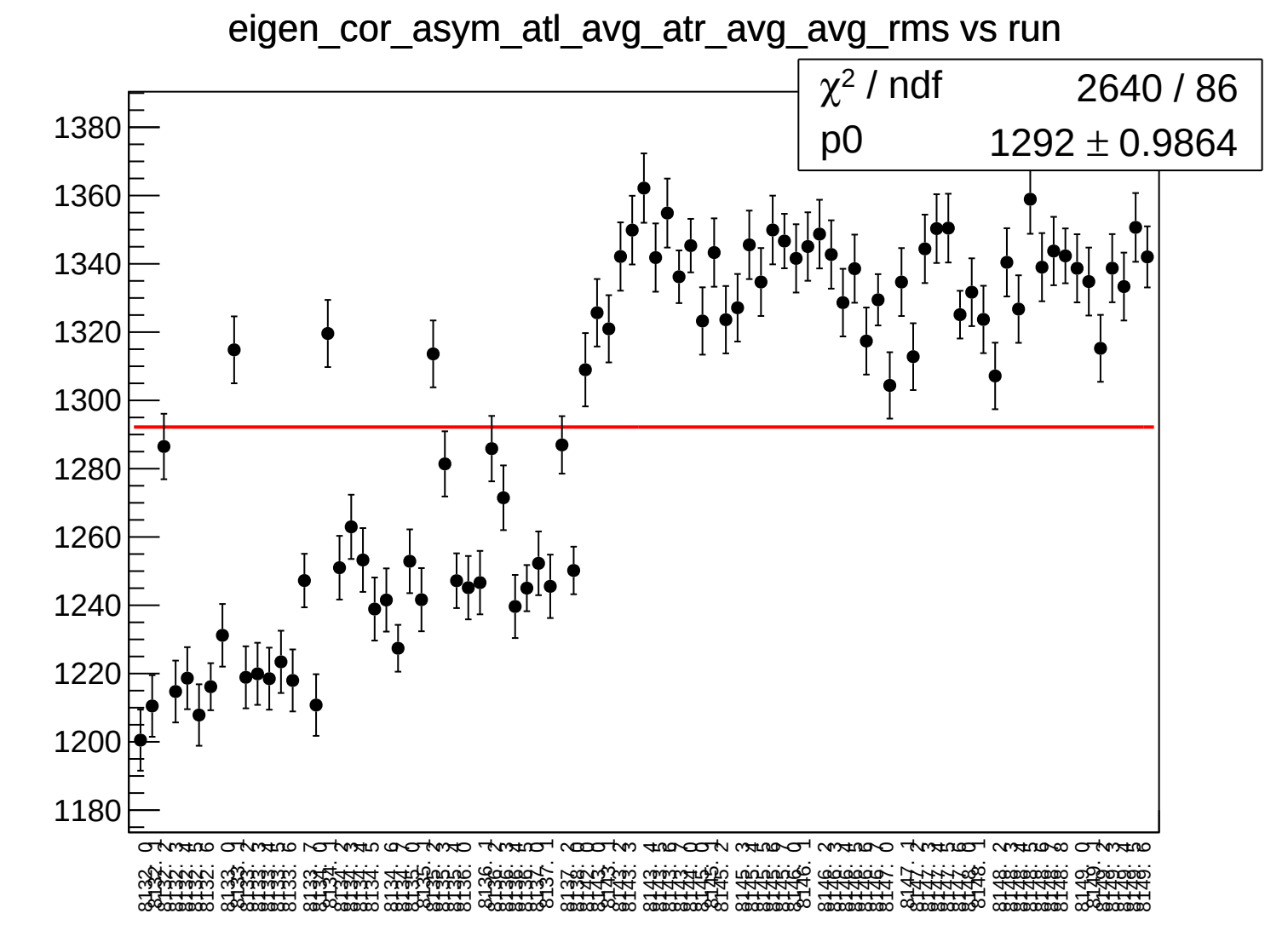
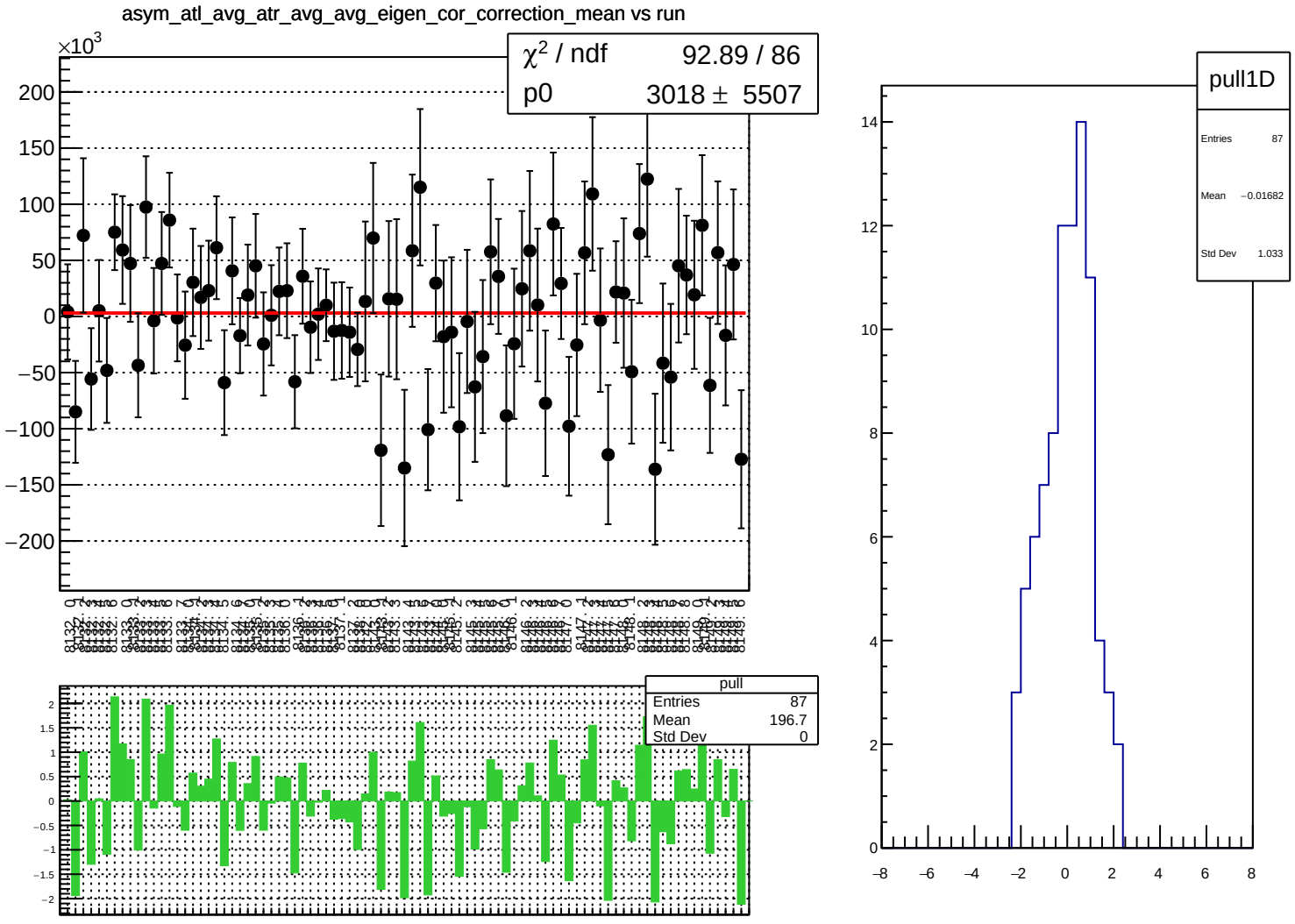
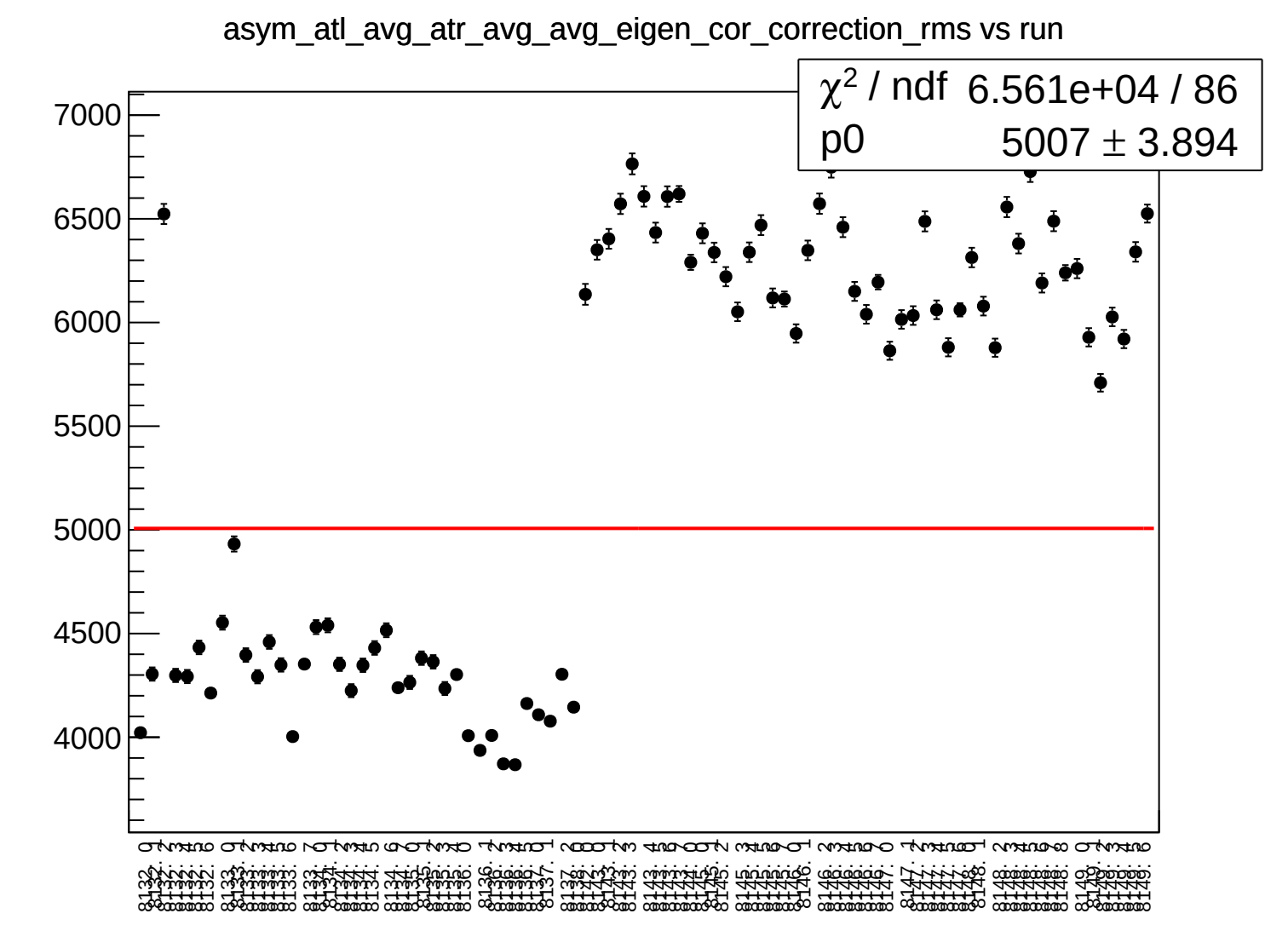
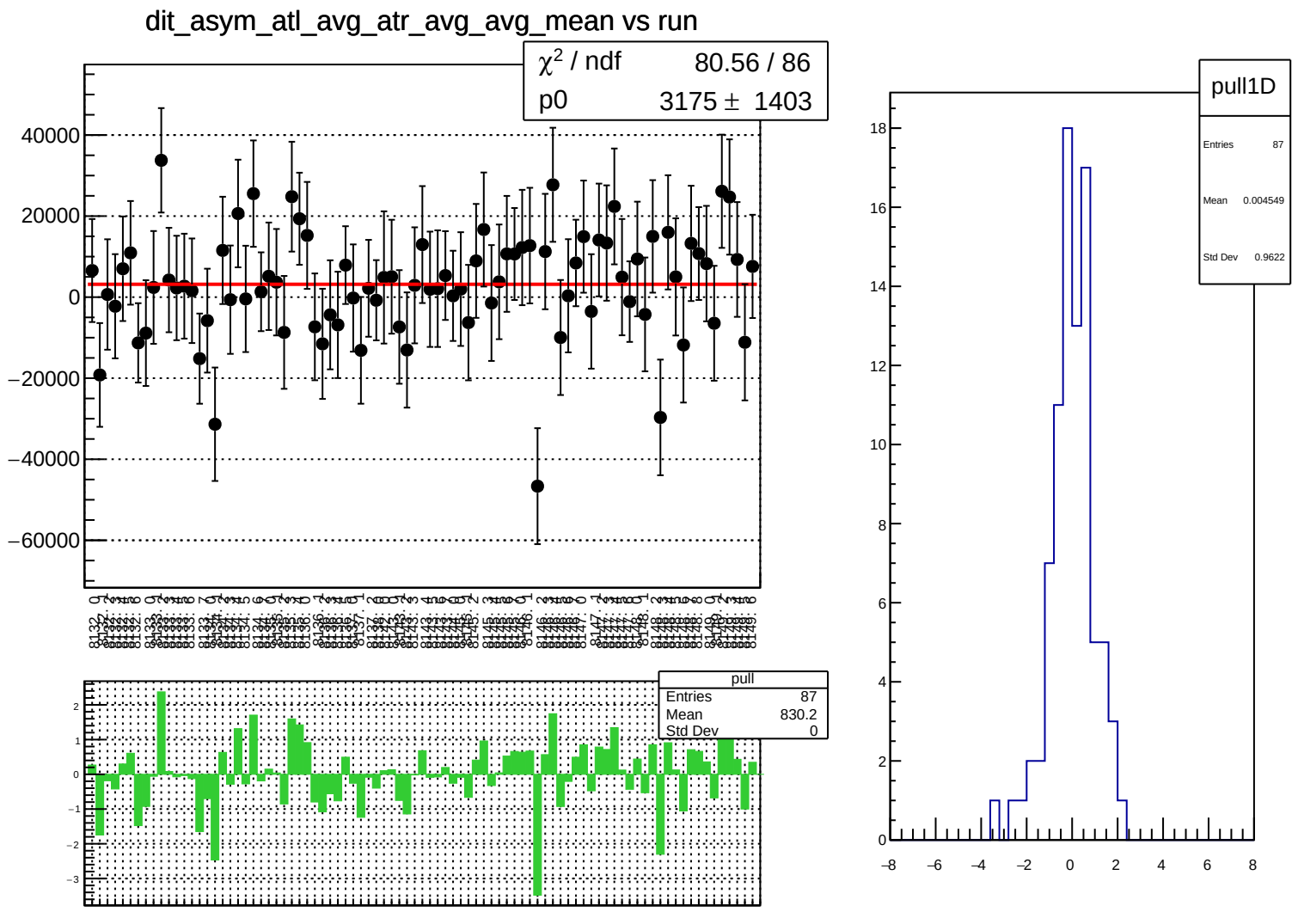
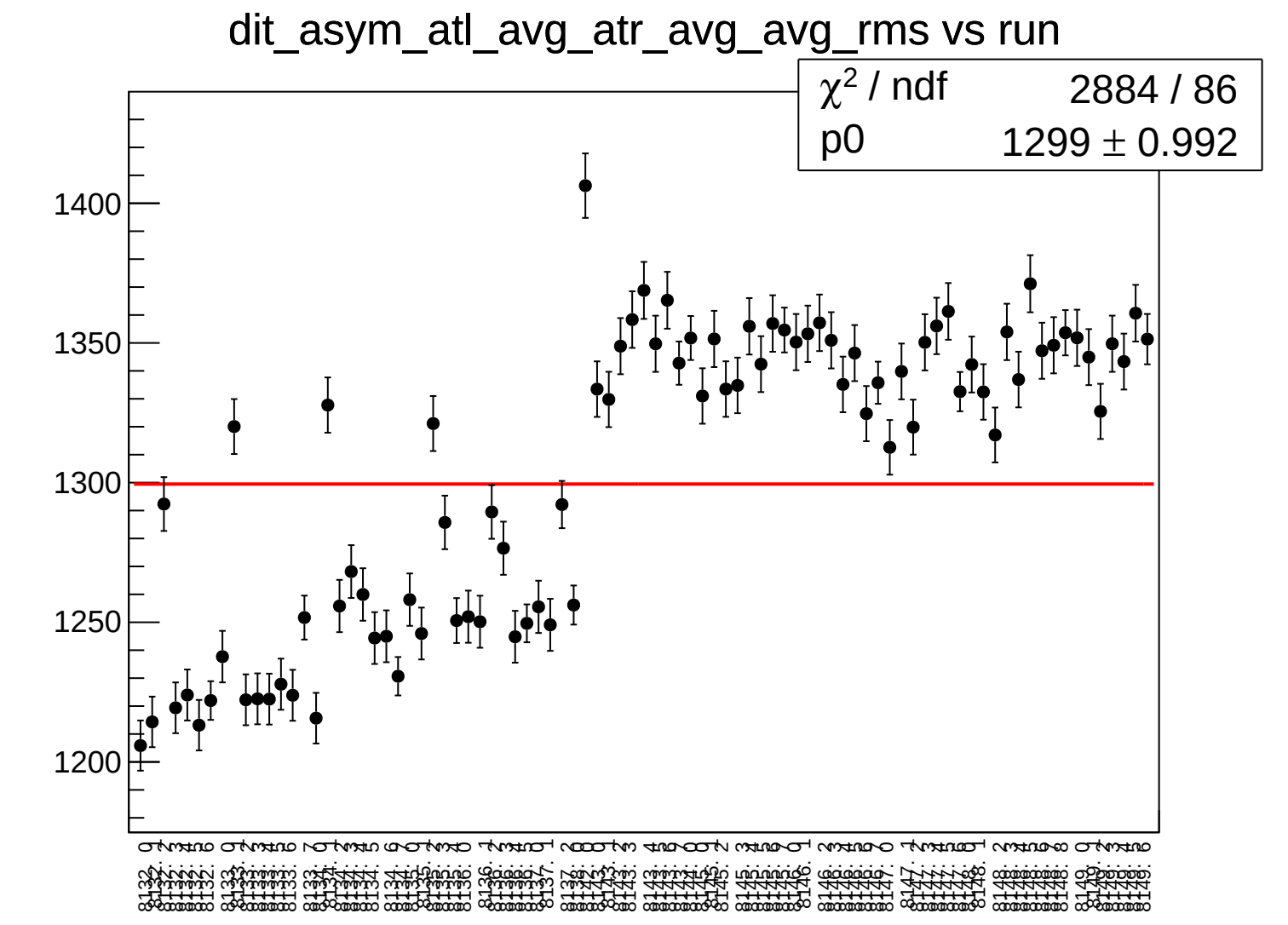
0
2
4
6
8

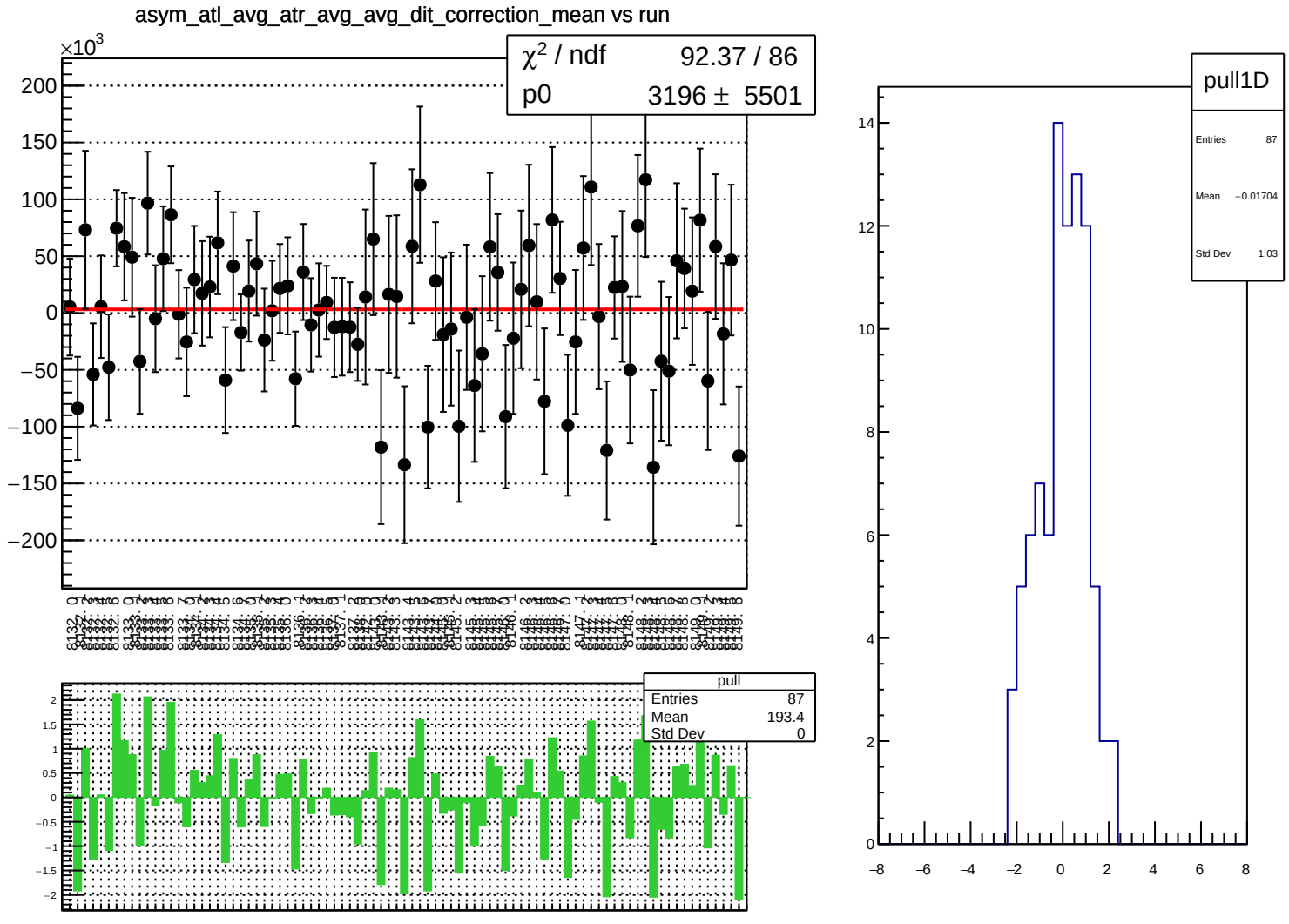

eigen_cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 2640 / 86
p0 1292 ± 0.9864
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200
1180

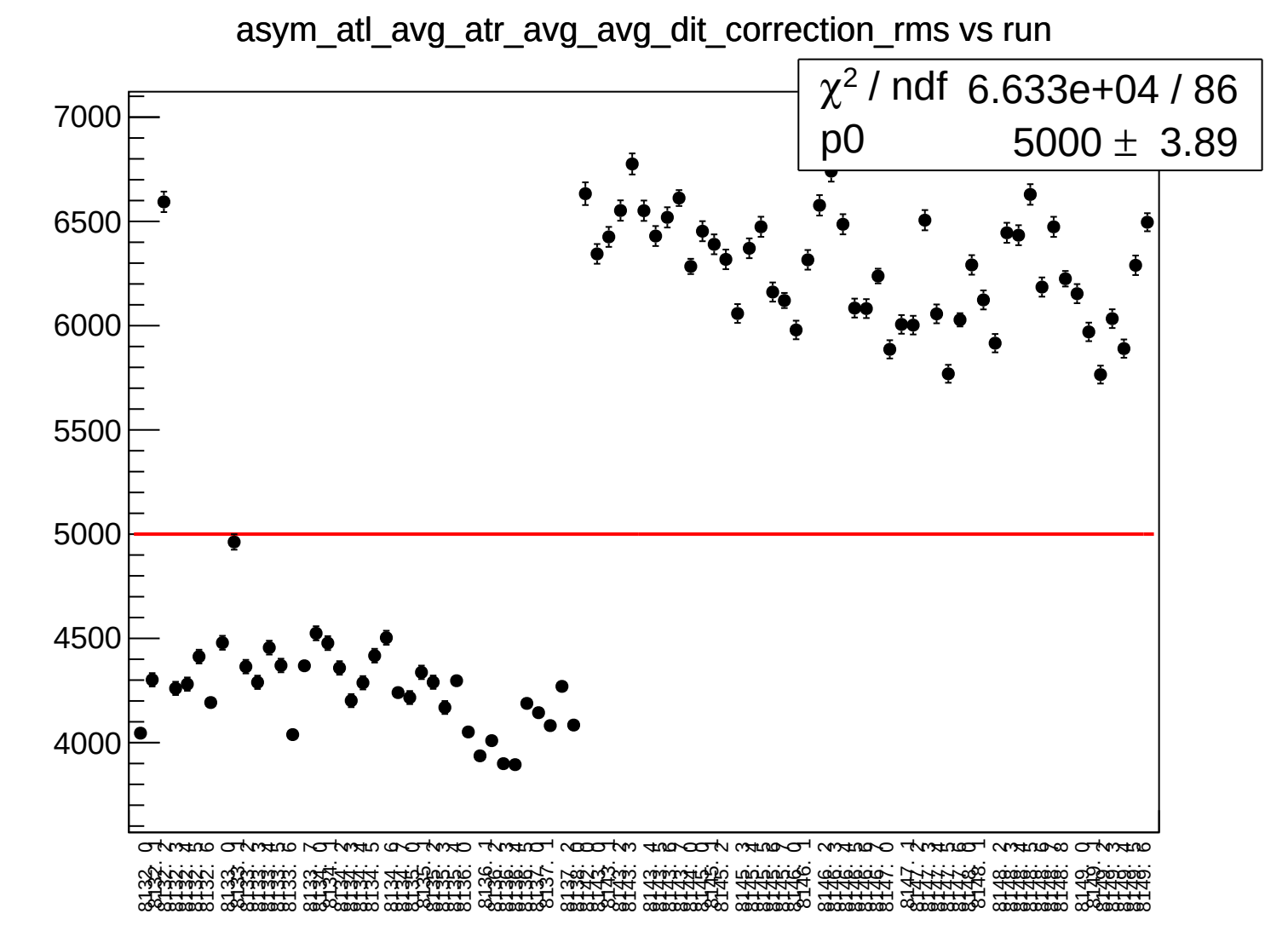

asym_atl_avg_atr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 92.89 / 86
p0 3018 ± 5507
pull
Entries 87
Mean 196.7
Std Dev 0
pull1D
Entries 87
Mean −0.01682
Std Dev 1.033

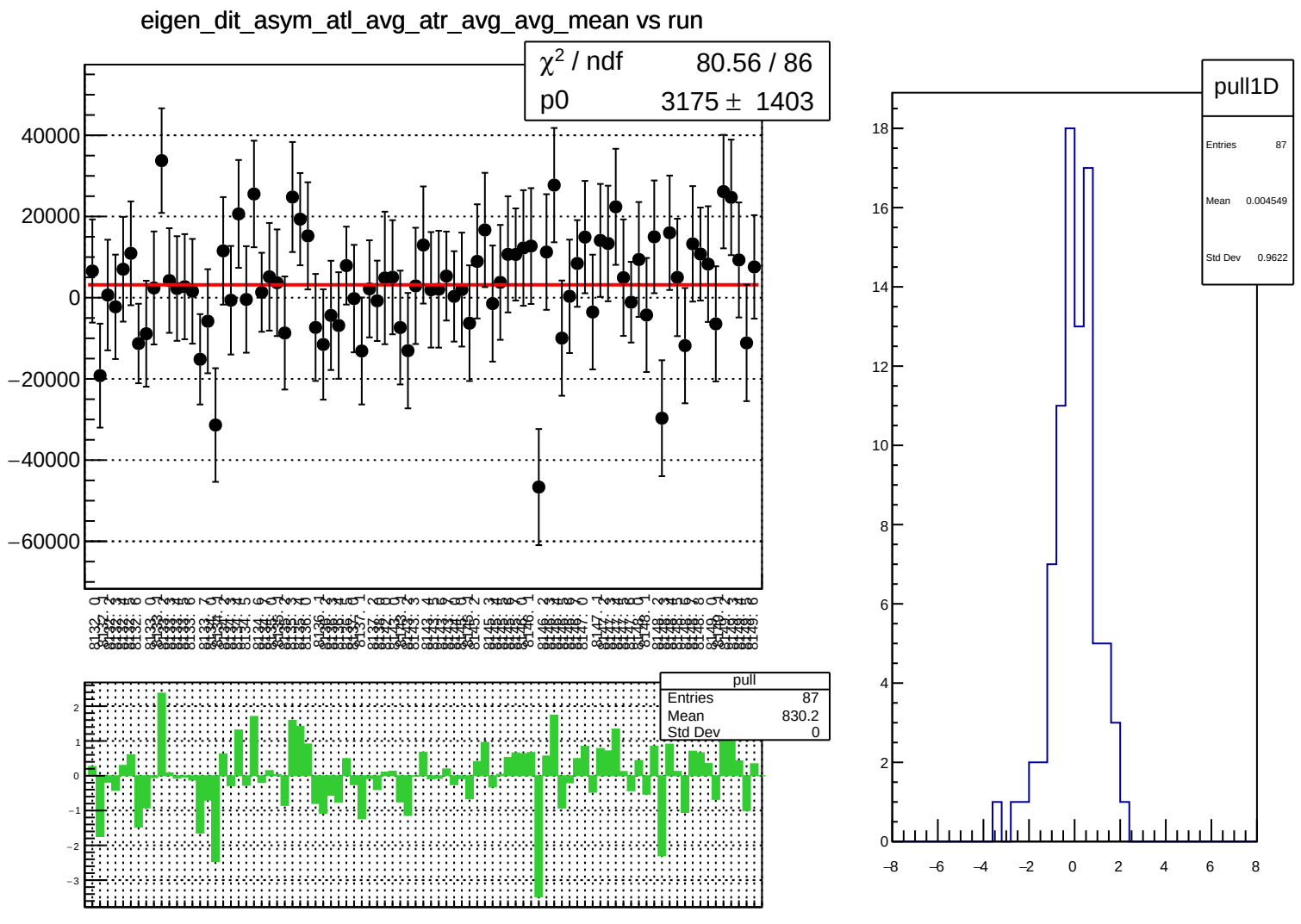

asym_atl_avg_atr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 6.561e+04 / 86
p0 5007 ± 3.894
7000
6500
6000
5500
5000
4500
4000

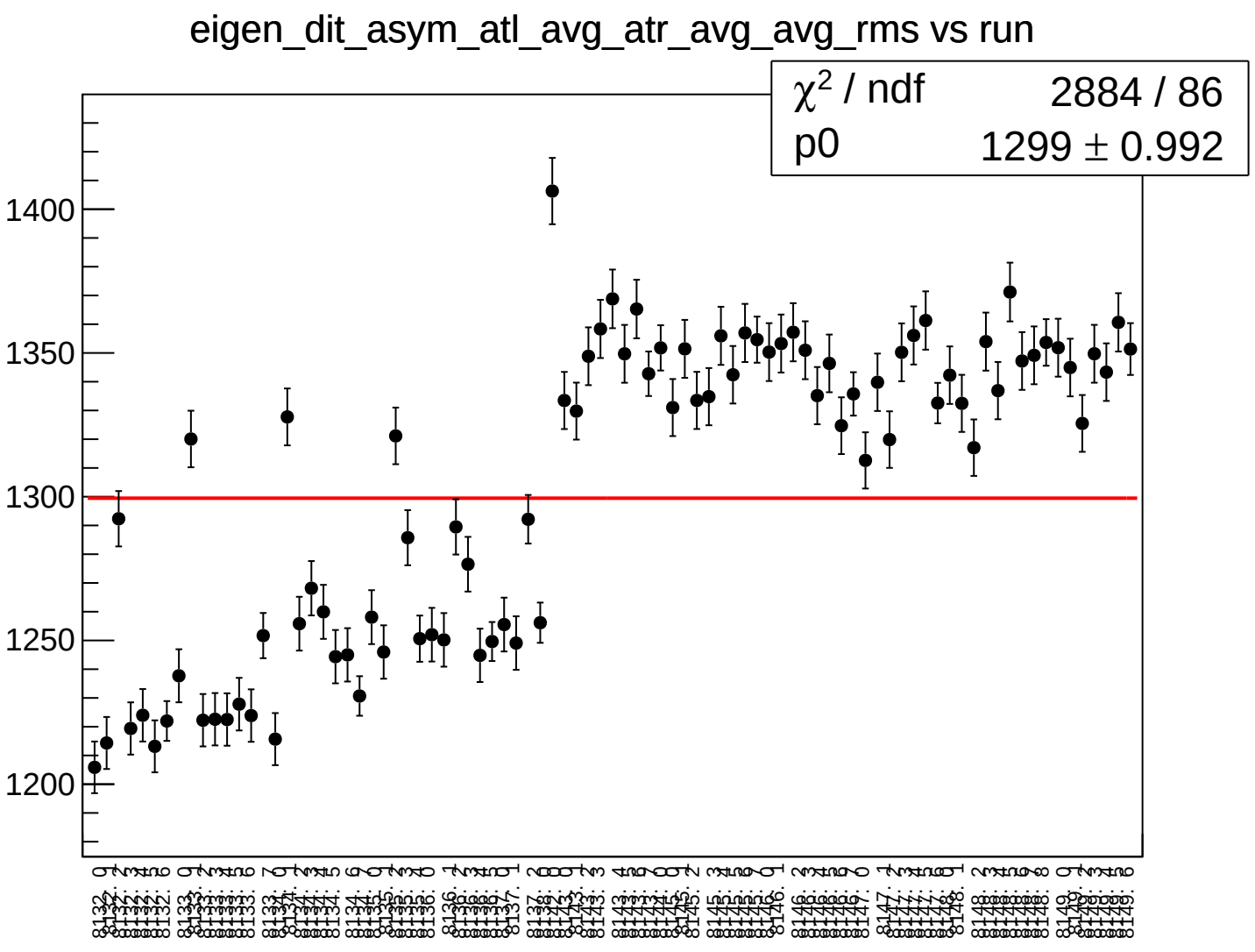

dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 80.56 / 86
p0 3175 ± 1403
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 830.2
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean 0.004549
Std Dev 0.9622
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

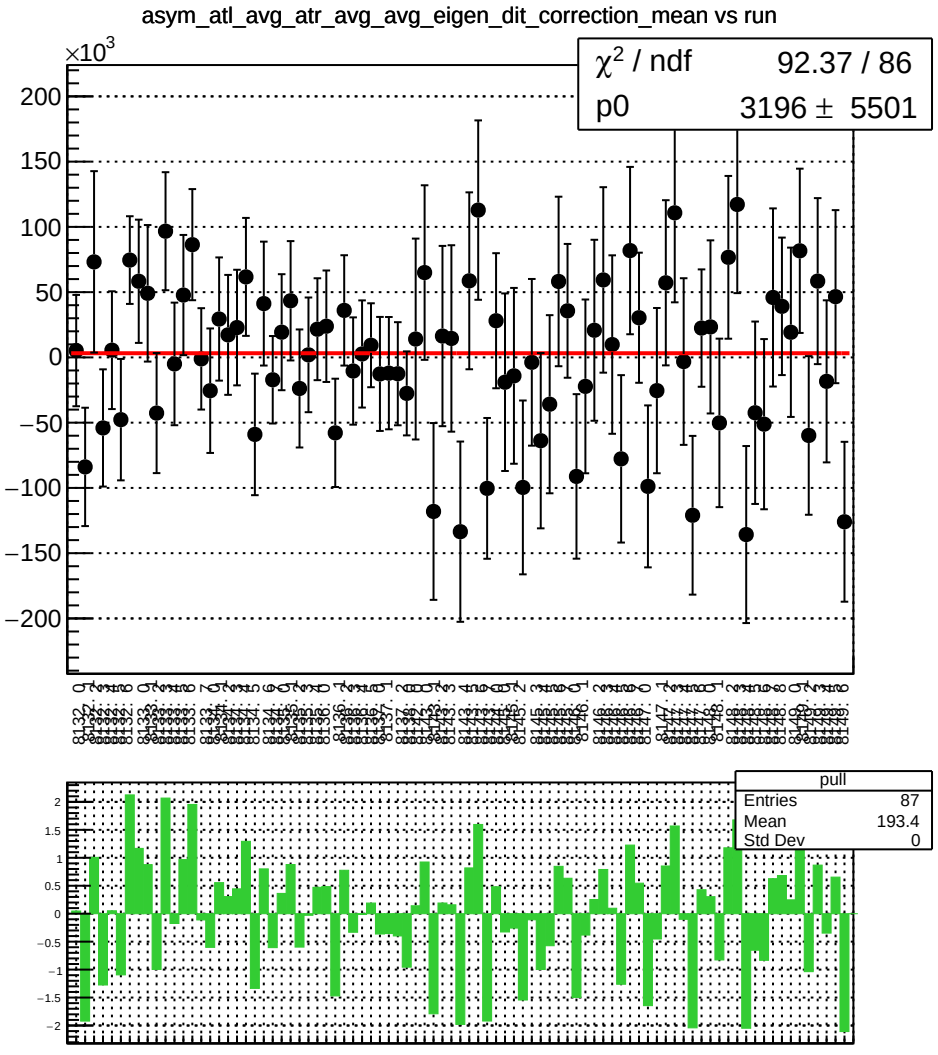

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 2884 / 86
p0 1299 ± 0.992
1400
1350
1300
1250
1200

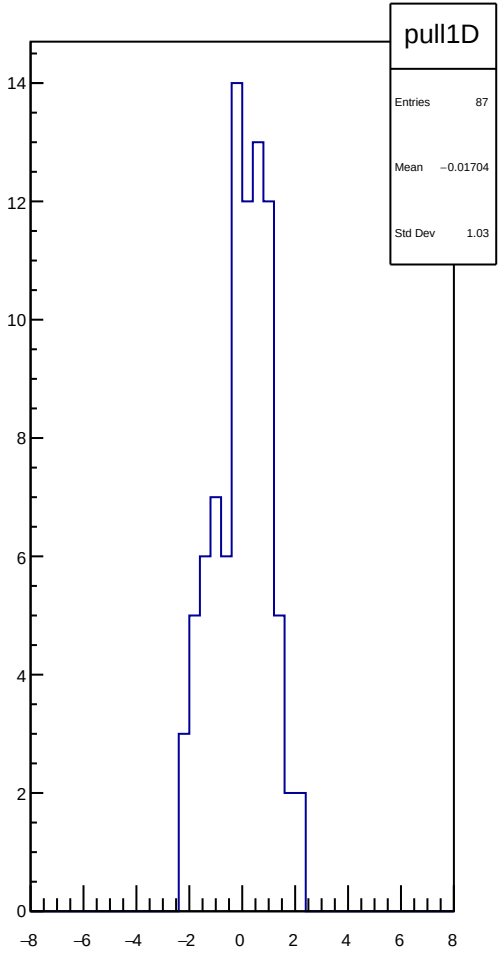

asym_atl_avg_atr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 92.37 / 86
p0 3196 ± 5501
pull
Entries 87
Mean 193.4
Std Dev 0
pull1D
Entries 87
Mean −0.01704
Std Dev 1.03

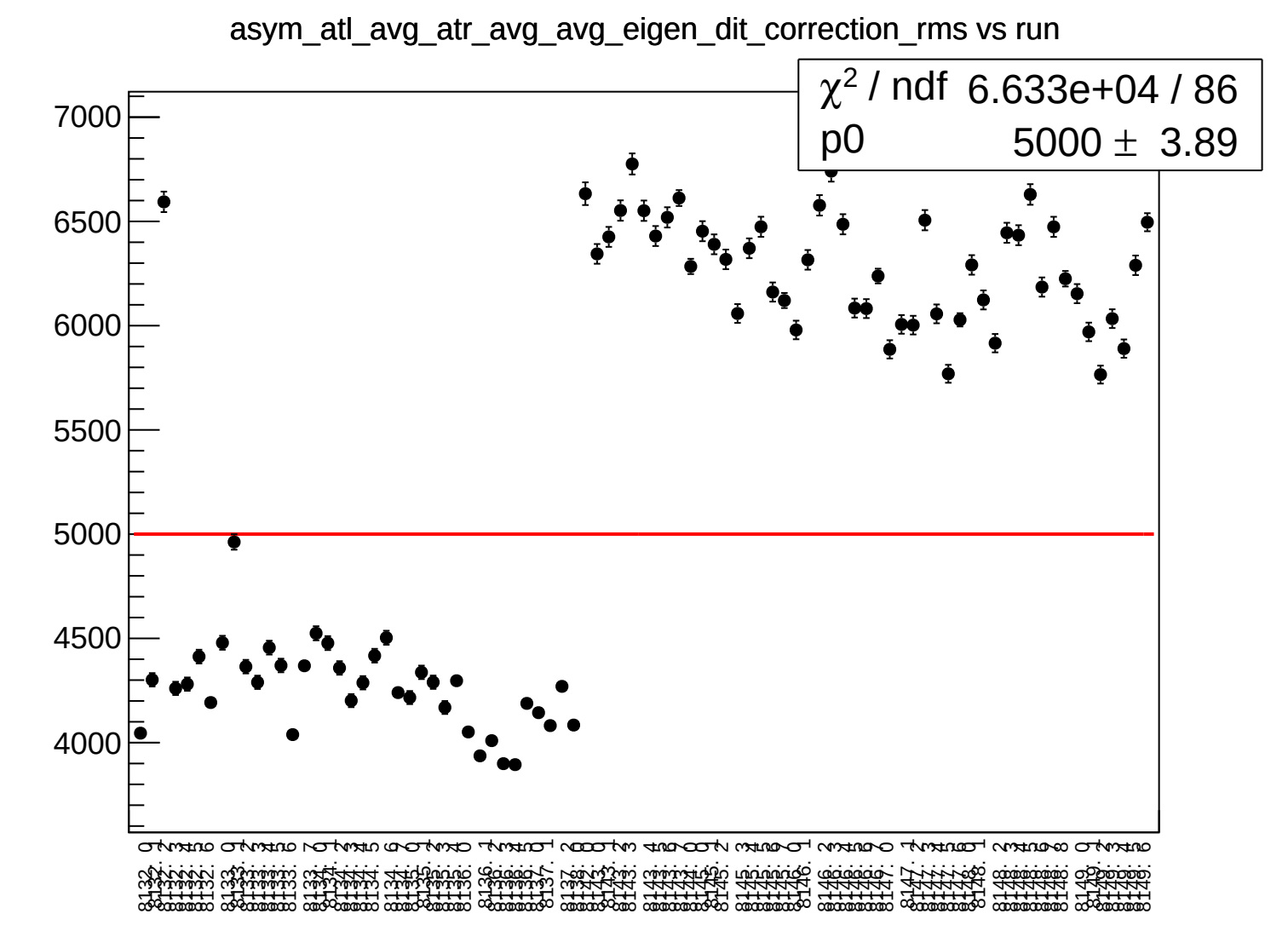

asym_atl_avg_atr_avg_avg_dit_correction_rms vs run
χ² / ndf 6.633e+04 / 86
p0 5000 ± 3.89
7000
6500
6000
5500
5000
4500
4000

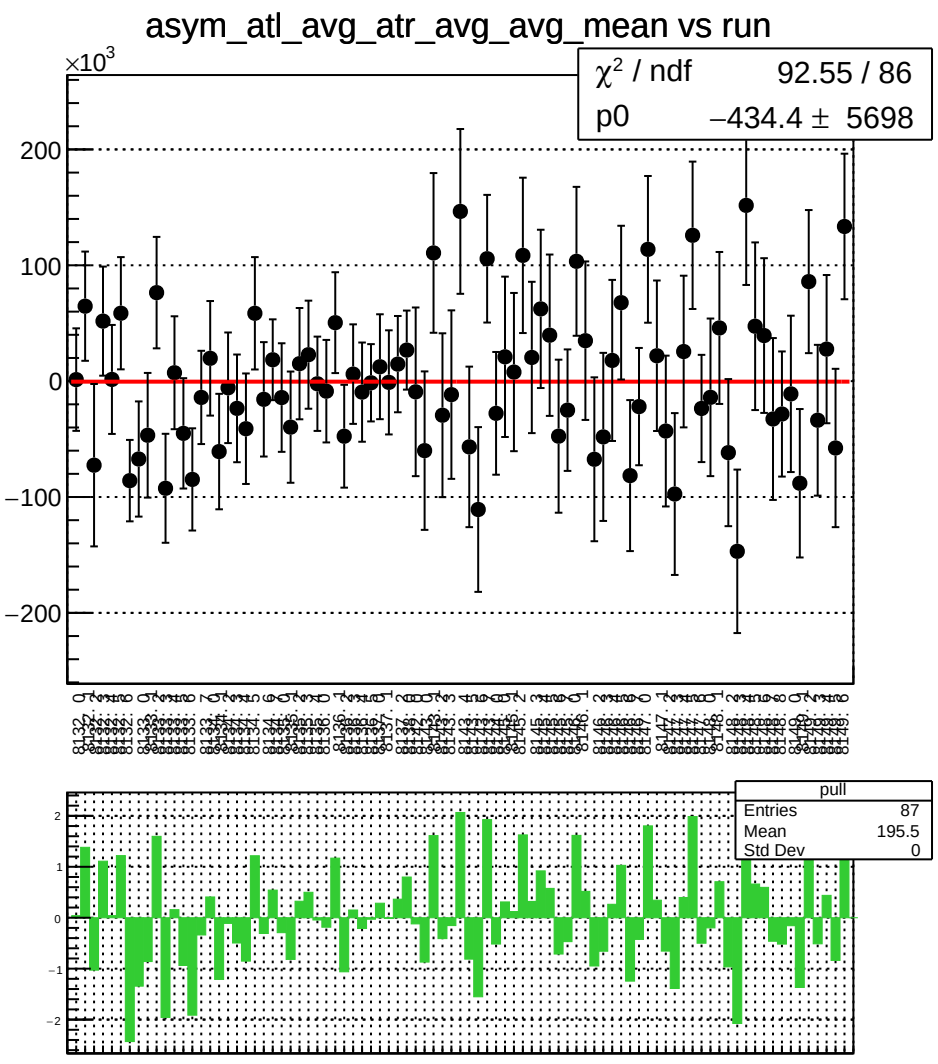

eigen_dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 80.56 / 86
p0 3175 ± 1403
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 830.2
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean 0.004549
Std Dev 0.9622
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

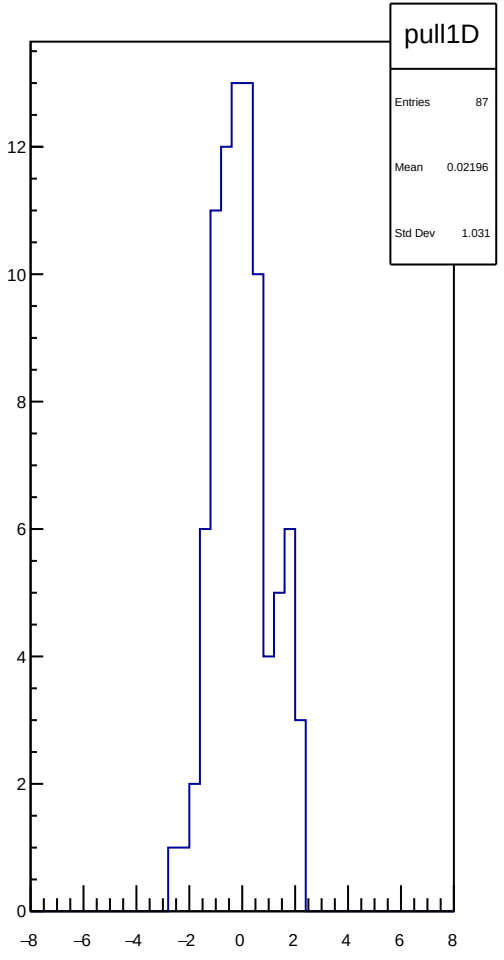

eigen_dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 2884 / 86
p0 1299 ± 0.992
1400
1350
1300
1250
1200

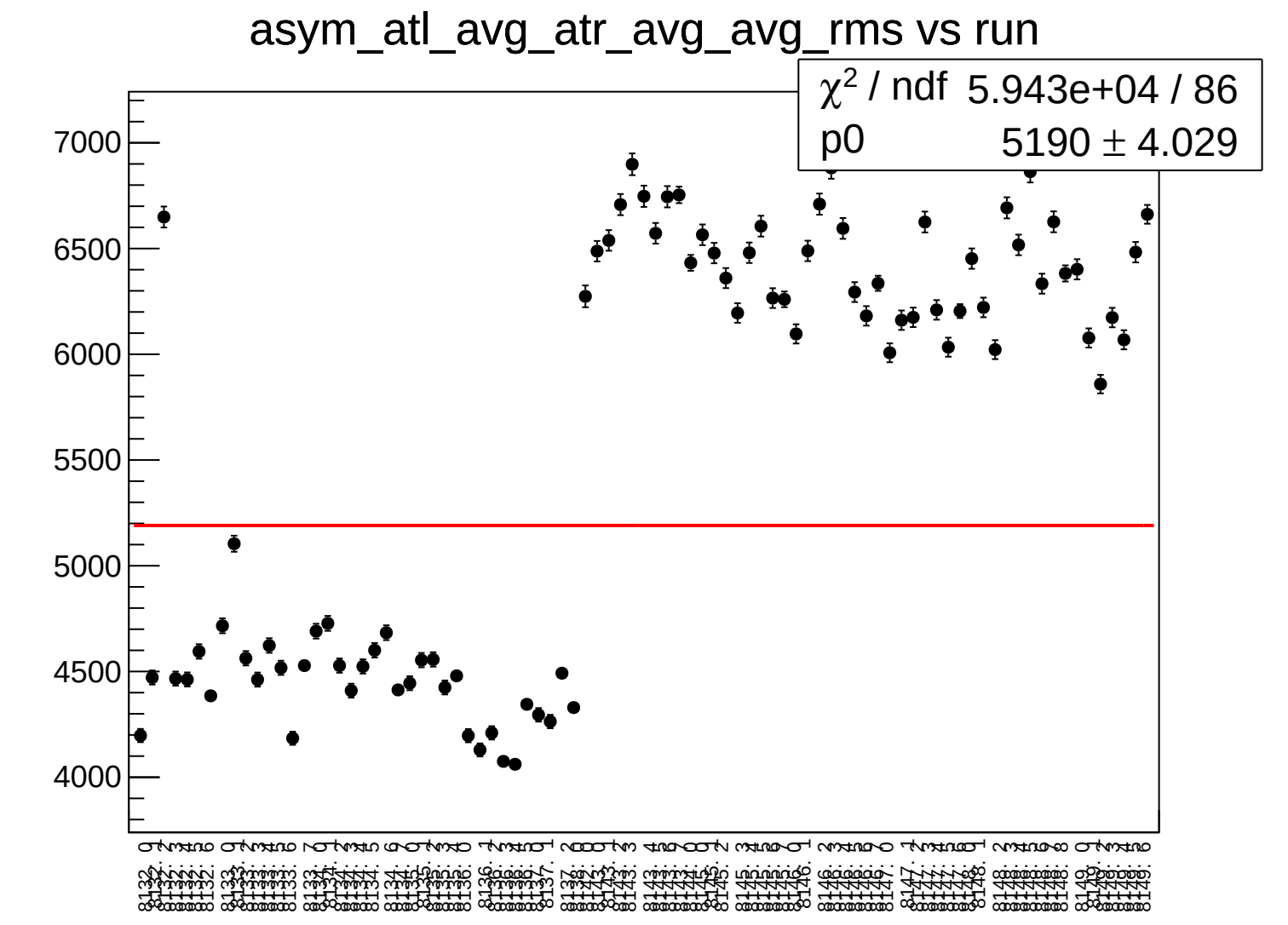

asym_atl_avg_atr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 92.37 / 86
p0 3196 ± 5501
pull
Entries 87
Mean 193.4
Std Dev 0

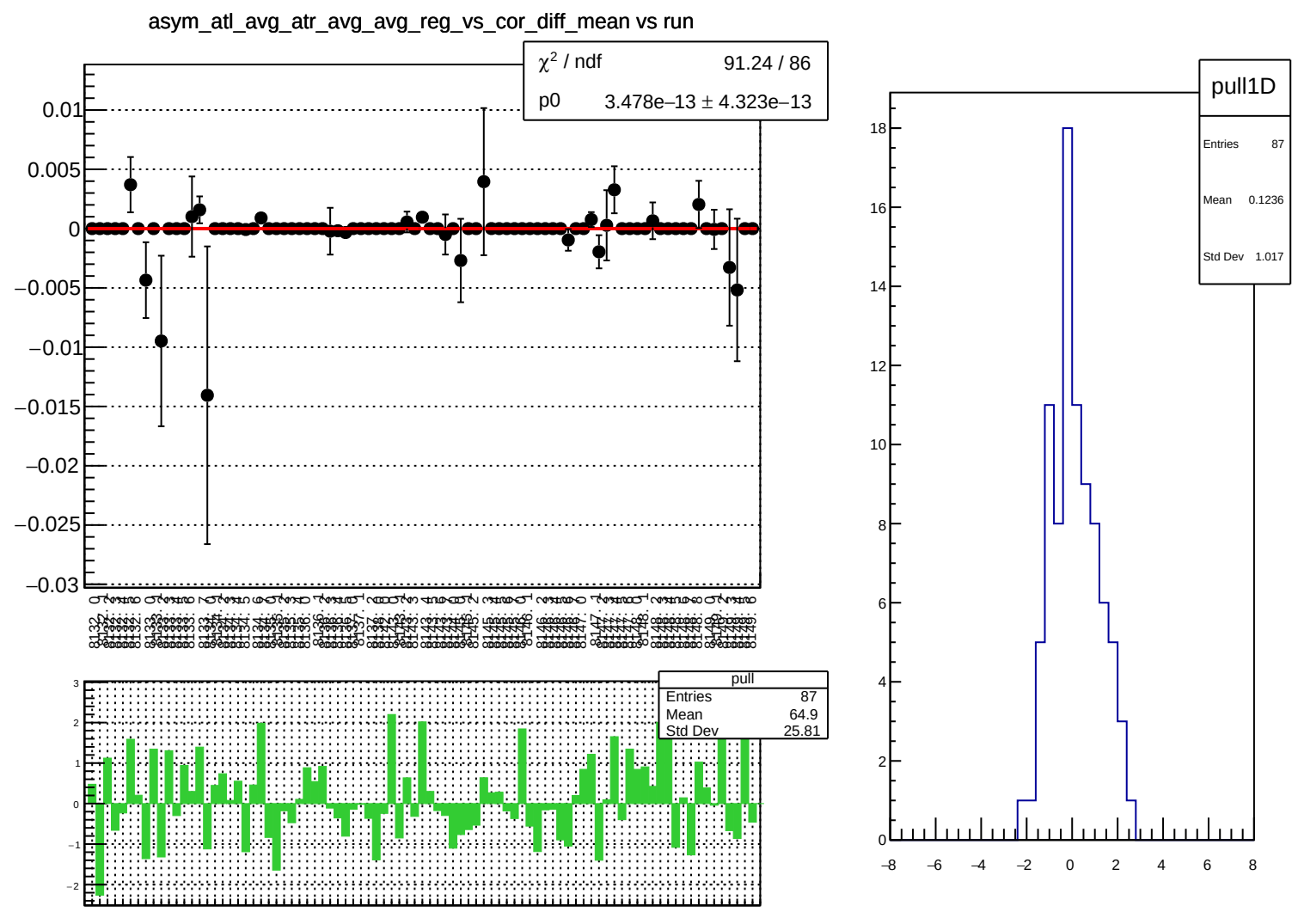

pull1D
Entries 87
Mean −0.01704
Std Dev 1.03

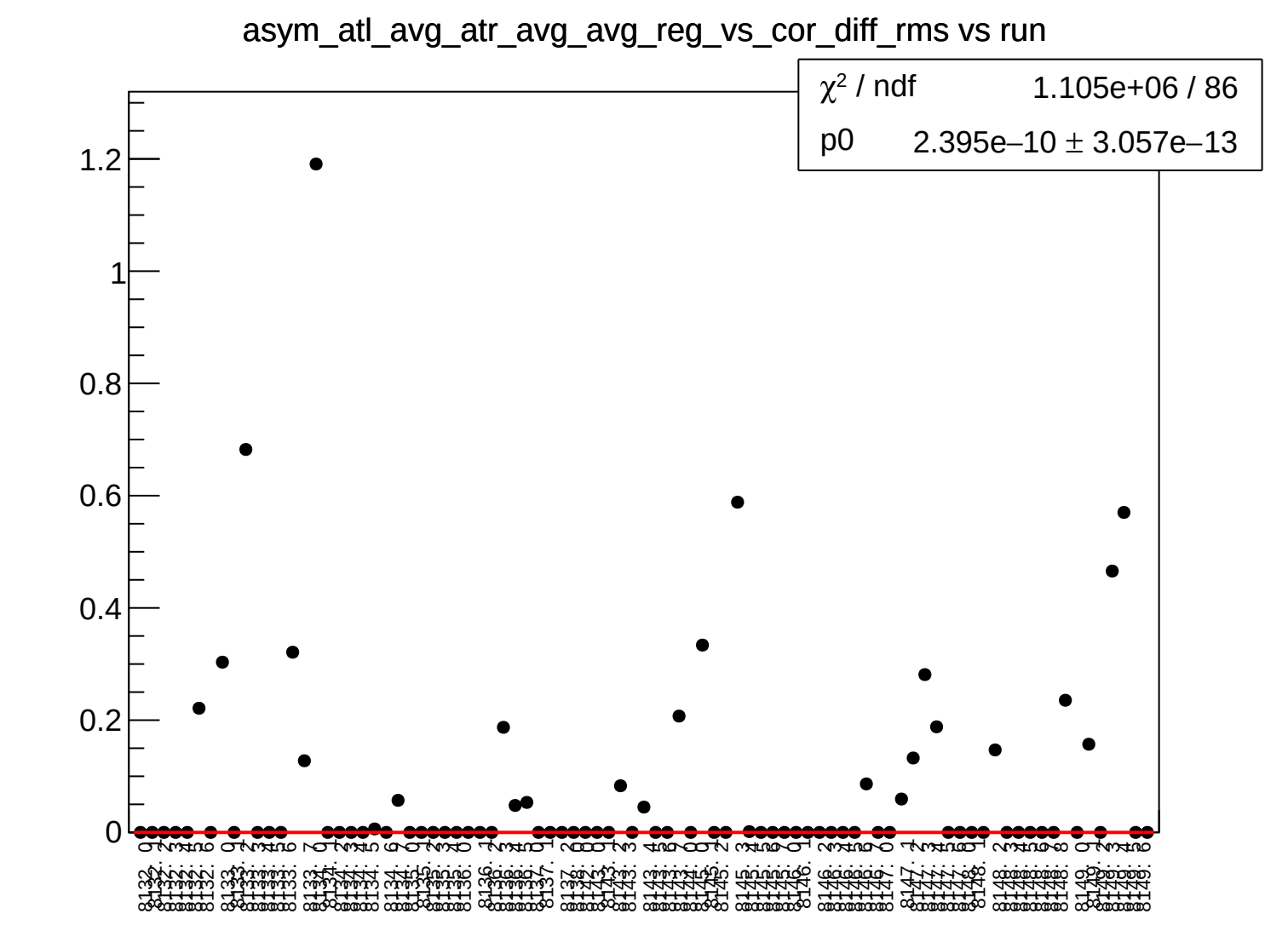

asym_atl_avg_atr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 6.633e+04 / 86
p0 5000 ± 3.89
7000
6500
6000
5500
5000
4500
4000

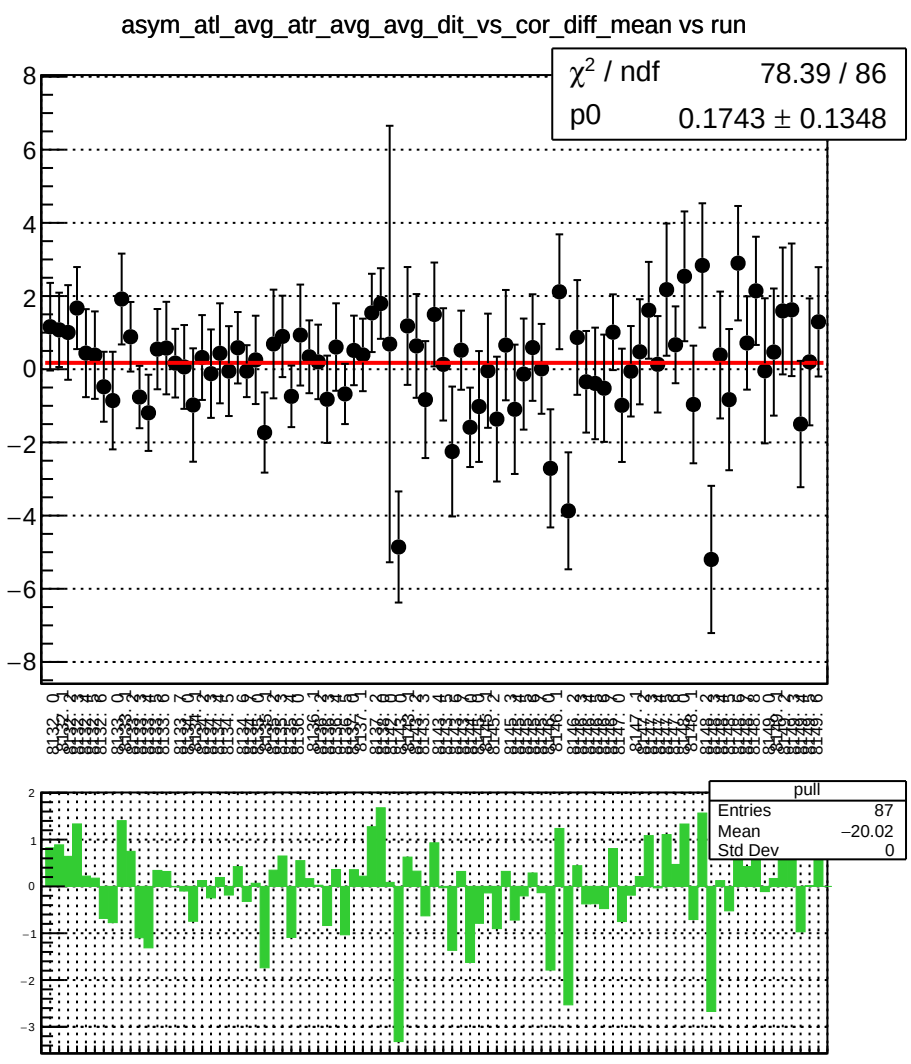

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 92.55 / 86
p0 −434.4 ± 5698
200
100
0
−100
−200
pull
Entries 87
Mean 195.5
Std Dev 0
2
1
0
−1
−2

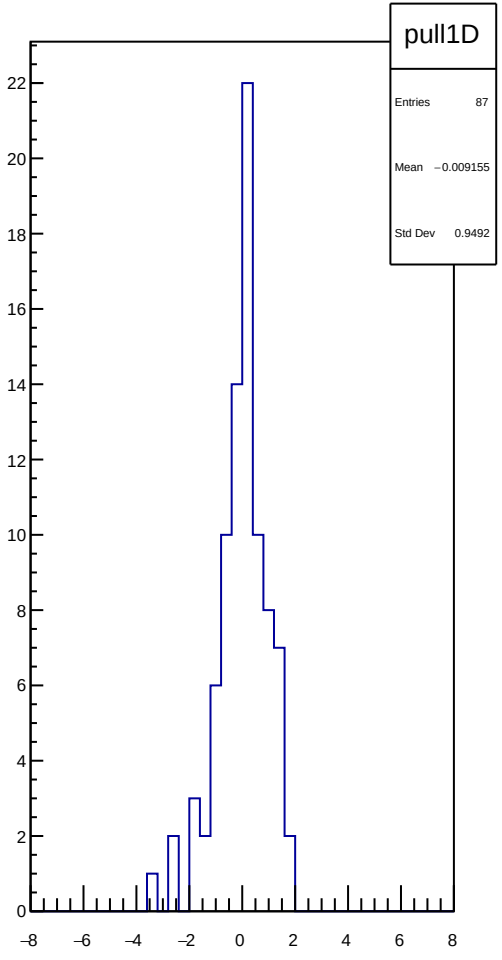

pull1D
Entries 87
Mean 0.02196
Std Dev 1.031
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

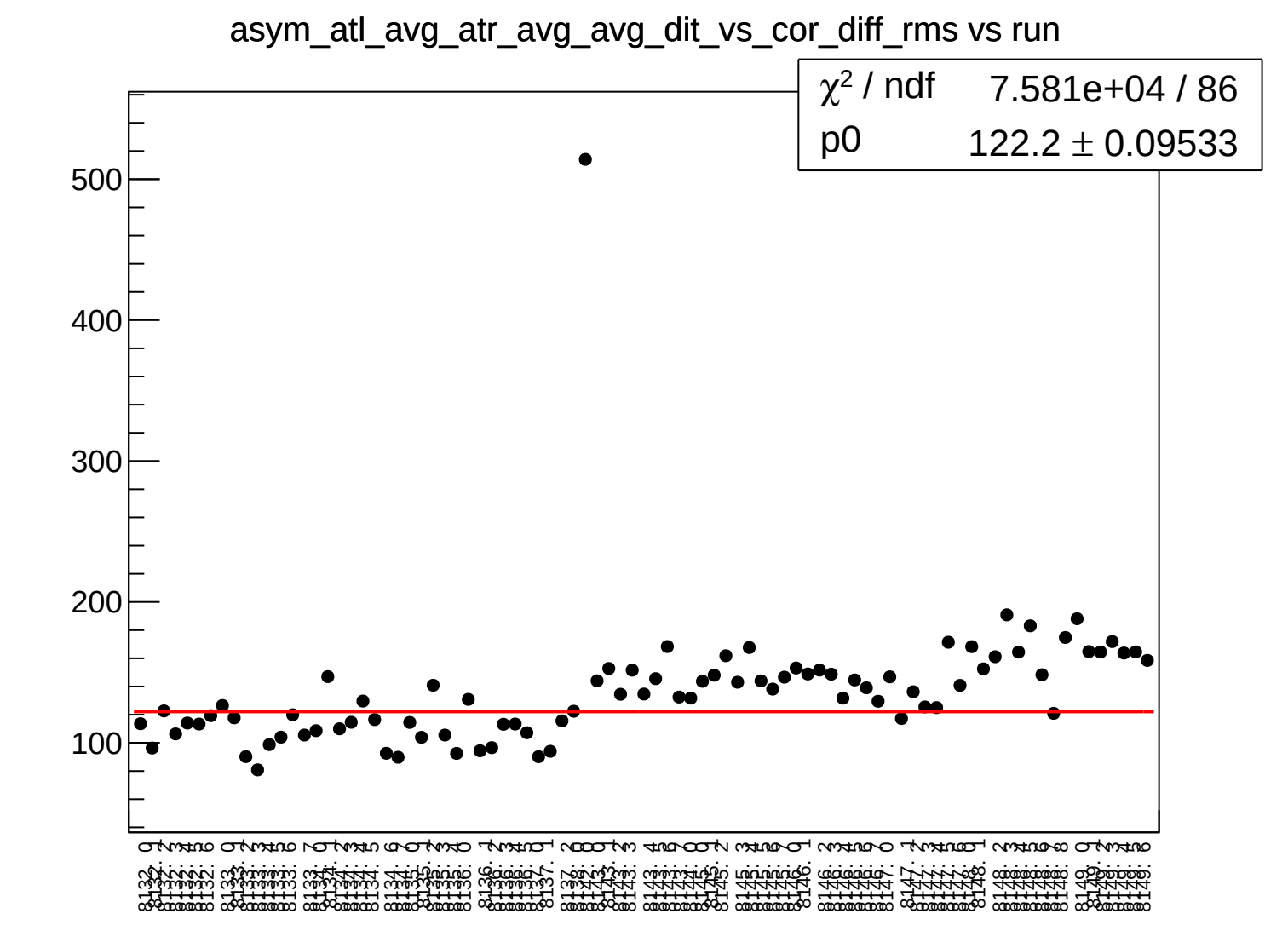

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 5.943e+04 / 86
p0 5190 ± 4.029
7000
6500
6000
5500
5000
4500
4000

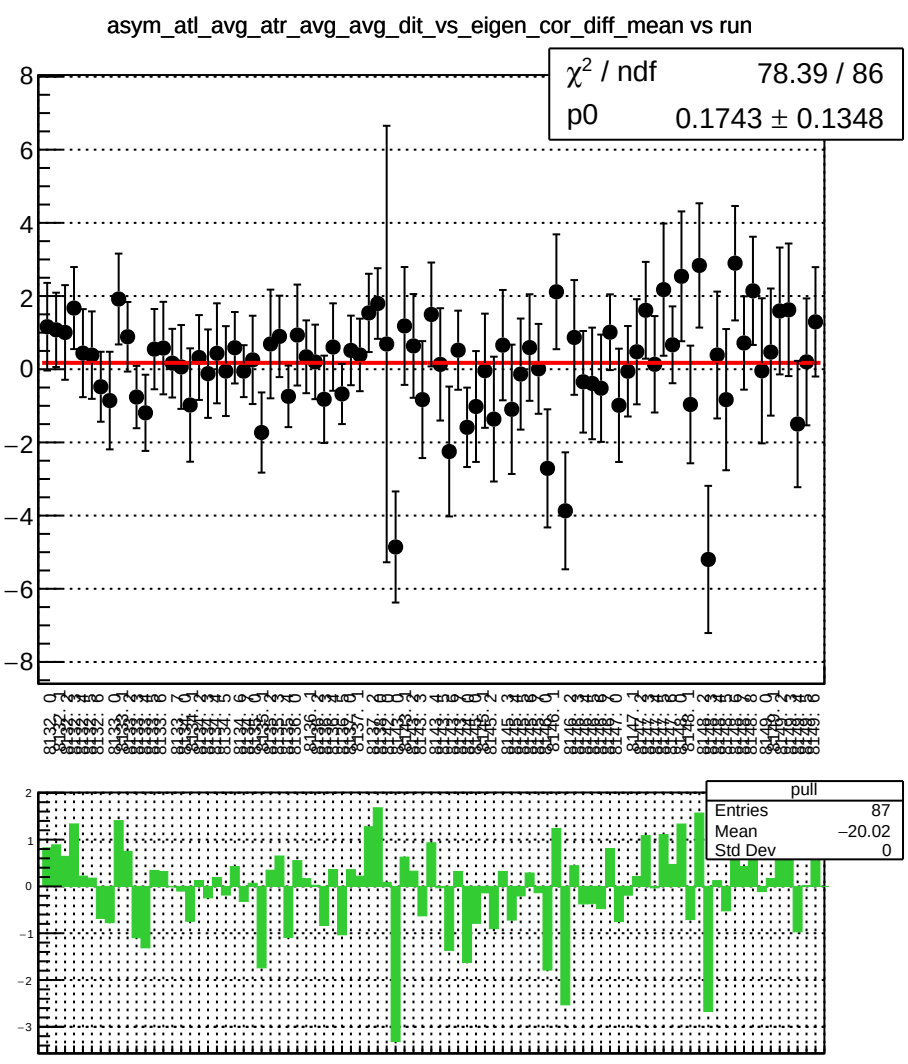

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 91.24 / 86
p0 3.478e−13 ± 4.323e−13
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
−0.025
−0.03
pull
Entries 87
Mean 64.9
Std Dev 25.81
3
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.1236
Std Dev 1.017
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

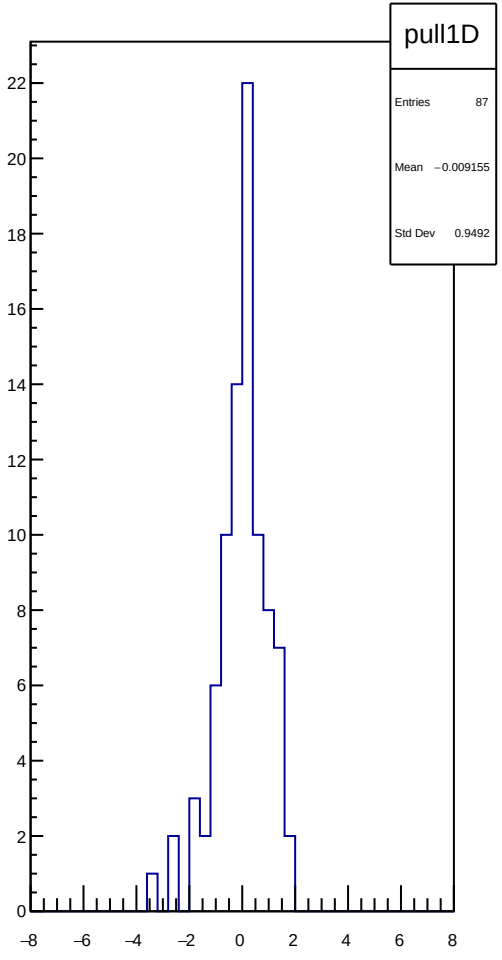

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.105e+06 / 86
p0 2.395e−10 ± 3.057e−13
1.2
1
0.8
0.6
0.4
0.2
0

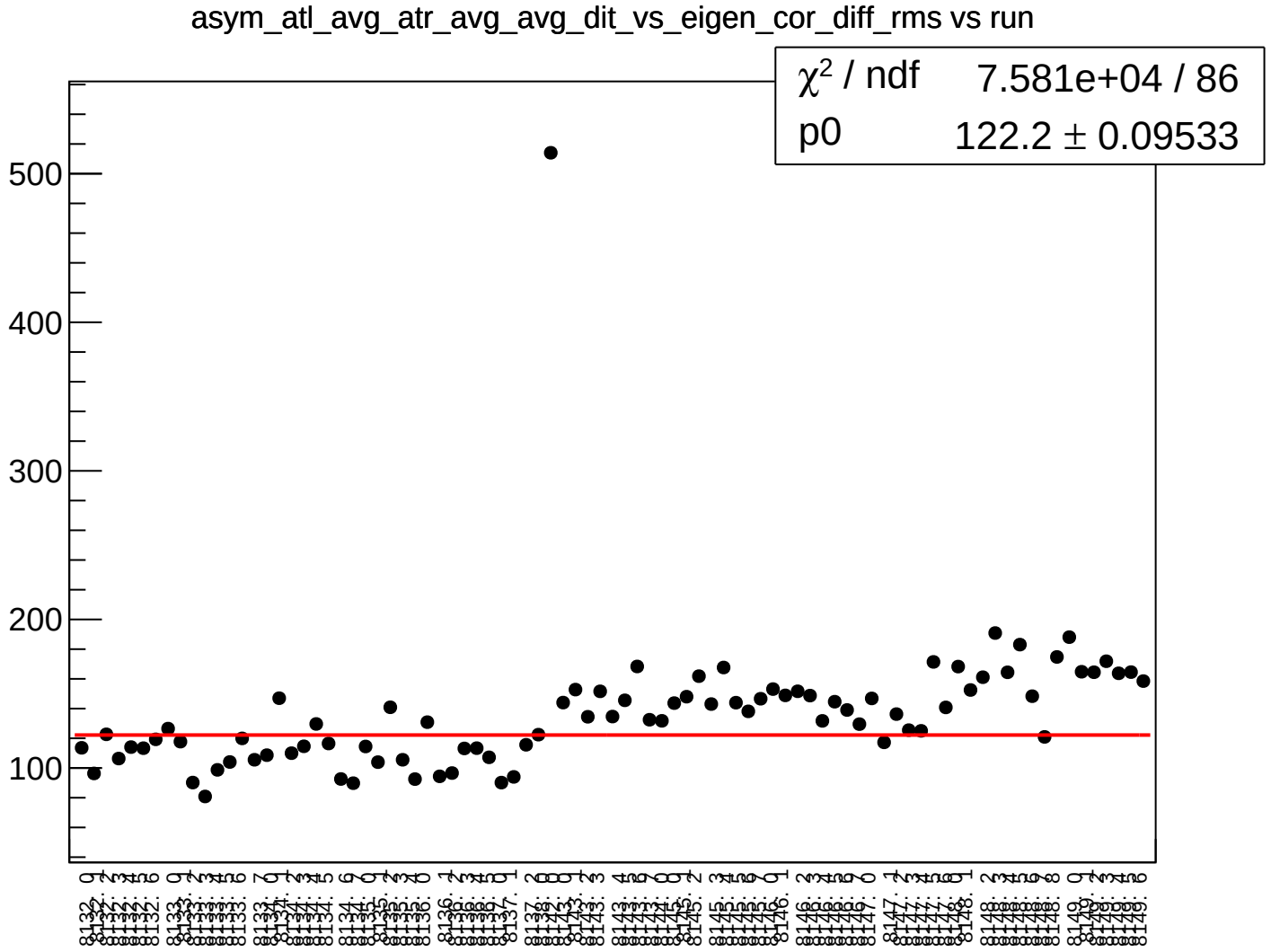

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 78.39 / 86
p0 0.1743 ± 0.1348
pull
Entries 87
Mean −20.02
Std Dev 0

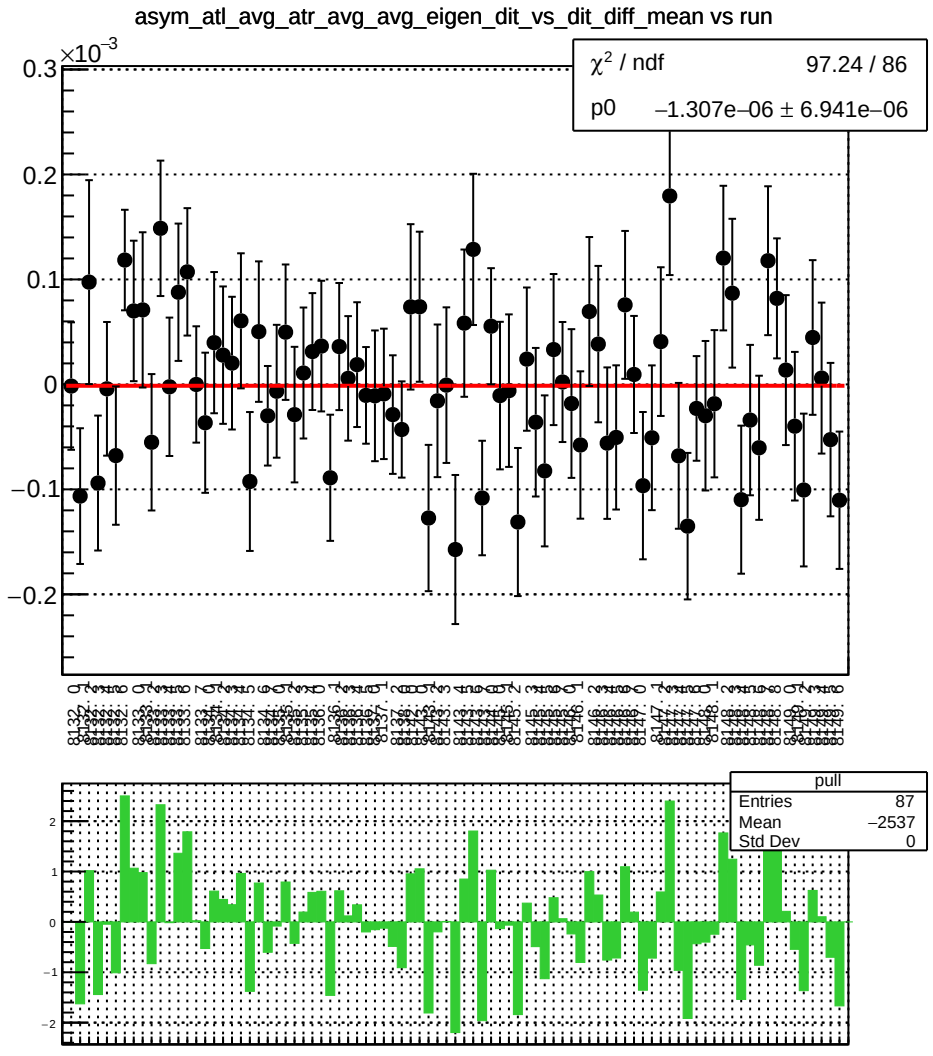

pull1D
Entries 87
Mean −0.009155
Std Dev 0.9492

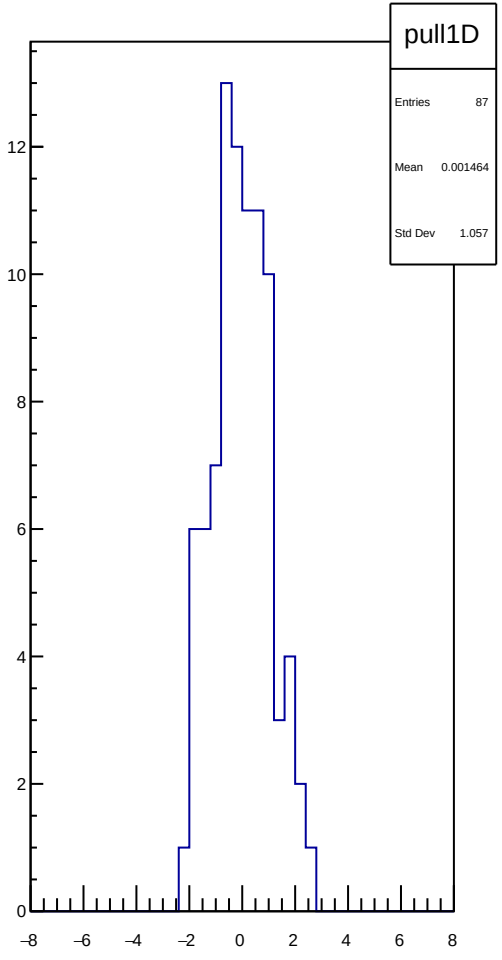

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.581e+04 / 86
p0 122.2 ± 0.09533
500
400
300
200
100

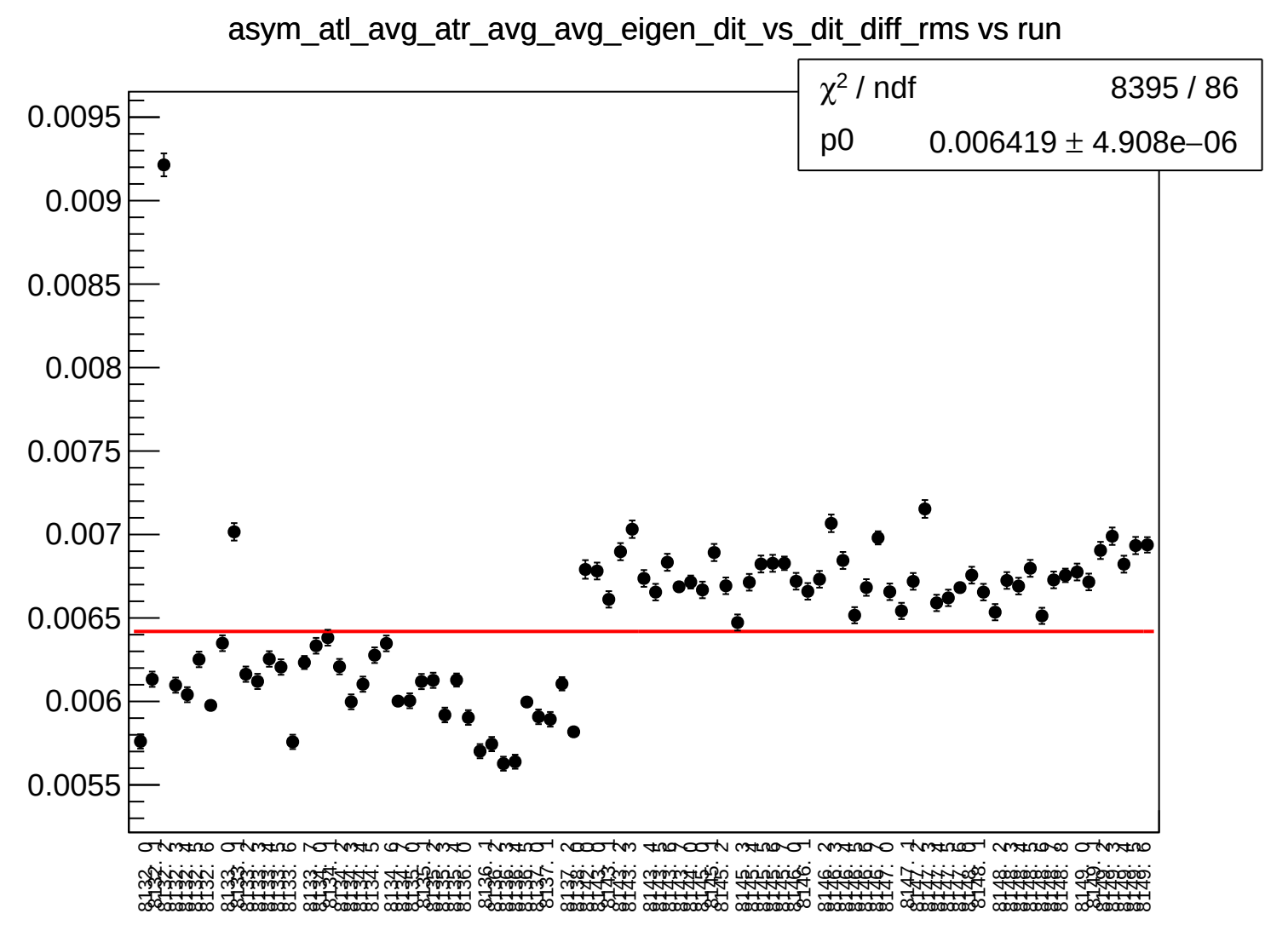

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.39 / 86
p0 0.1743 ± 0.1348
pull
Entries 87
Mean −20.02
Std Dev 0

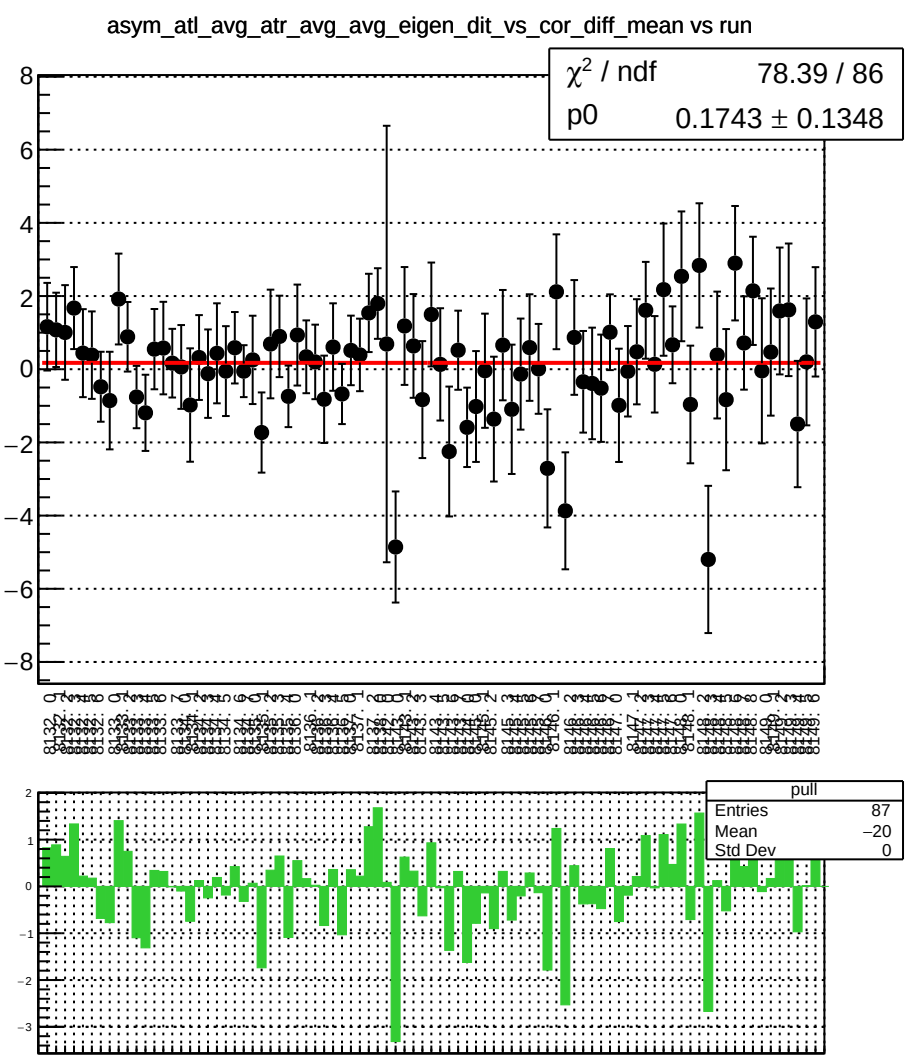

pull1D
Entries 87
Mean −0.009155
Std Dev 0.9492

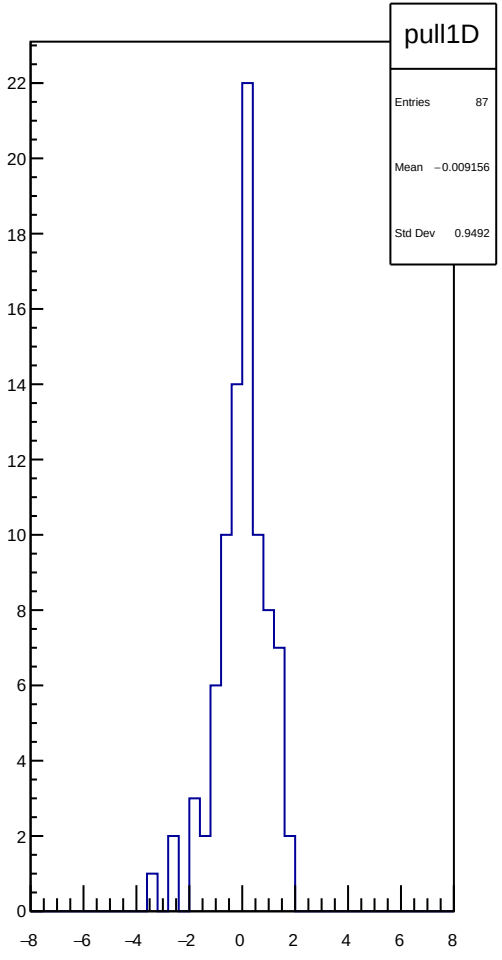

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.581e+04 / 86
p0 122.2 ± 0.09533
500
400
300
200
100

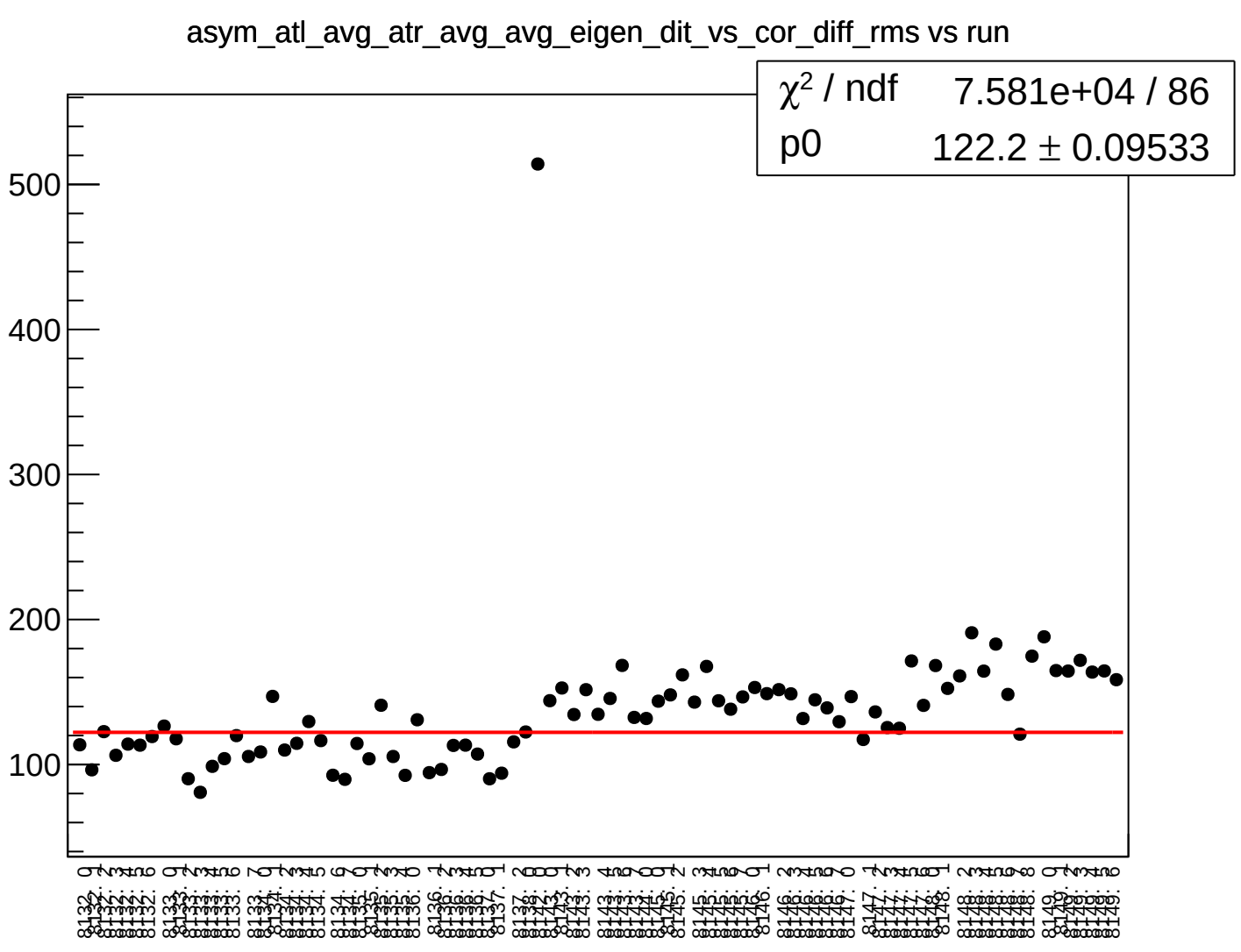

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.24 / 86
p0 −1.307e−06 ± 6.941e−06
pull
Entries 87
Mean −2537
Std Dev 0

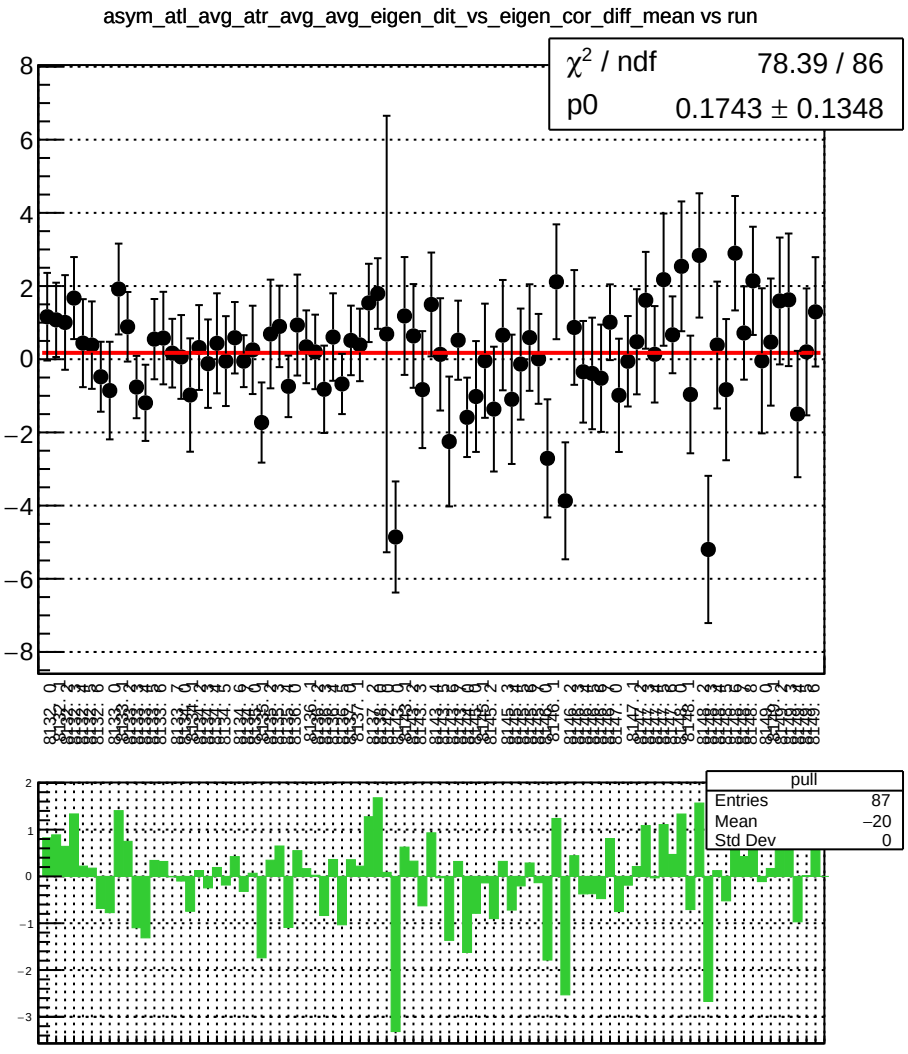

pull1D
Entries 87
Mean 0.001464
Std Dev 1.057

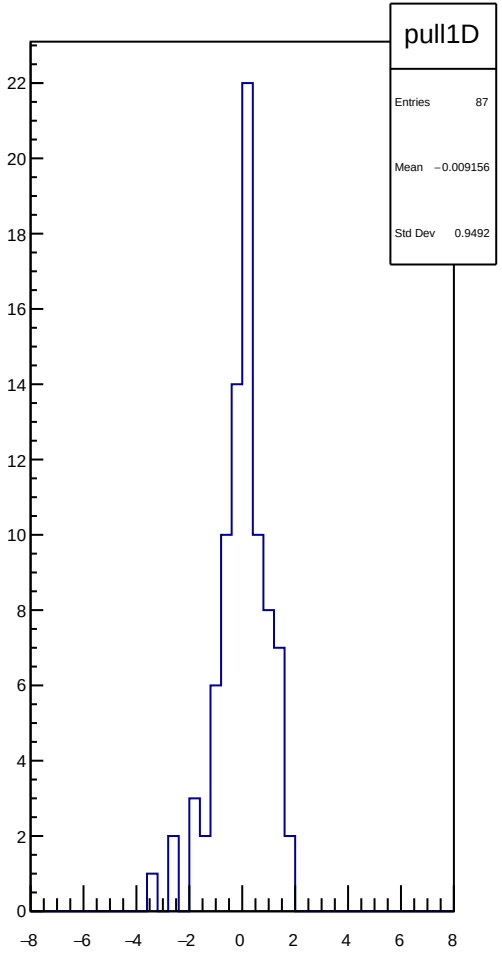

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8395 / 86
p0 0.006419 ± 4.908e−06
0.0095
0.009
0.0085
0.008
0.0075
0.007
0.0065
0.006
0.0055

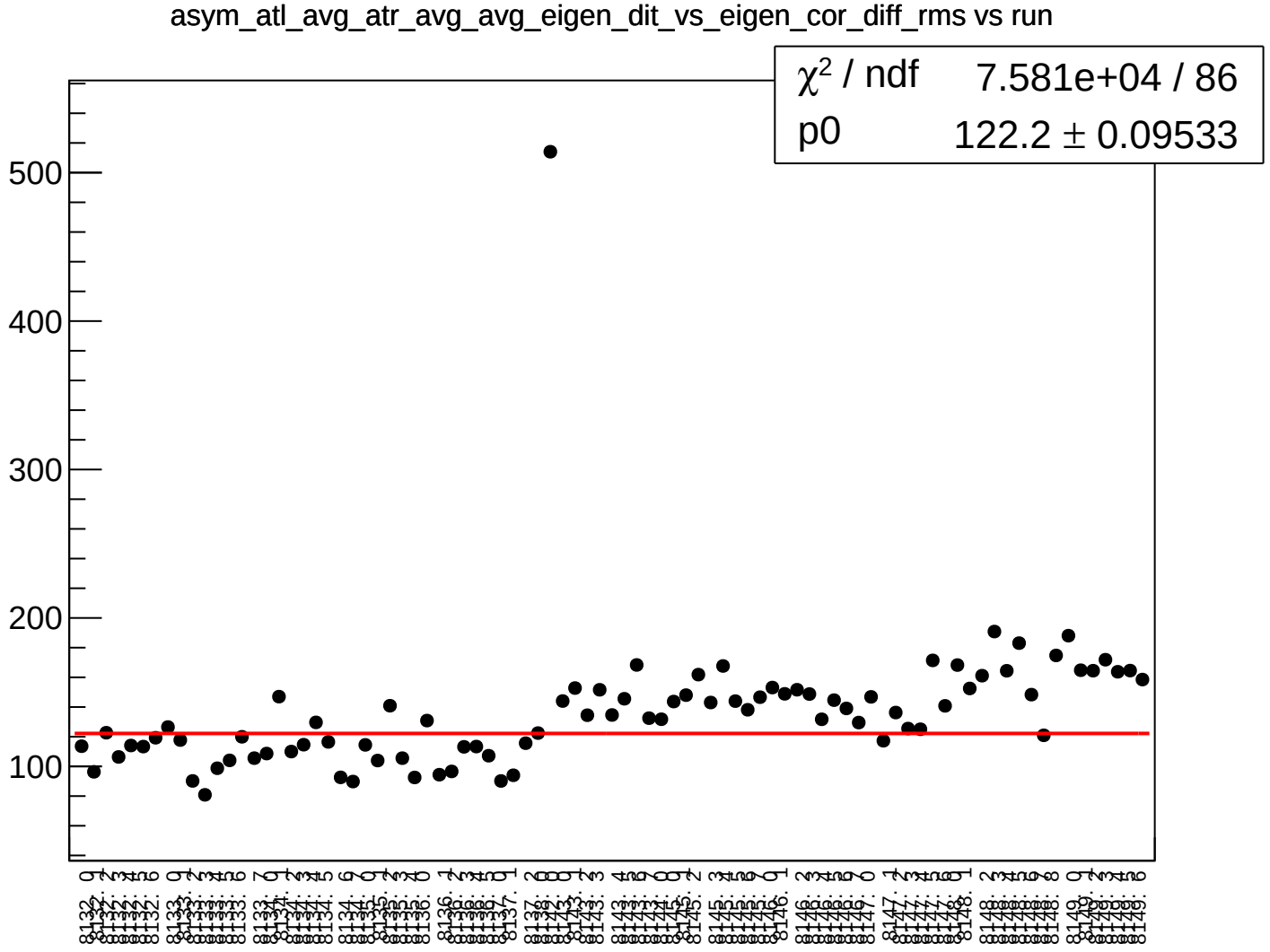

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.39 / 86
p0 0.1743 ± 0.1348
pull
Entries 87
Mean −20
Std Dev 0

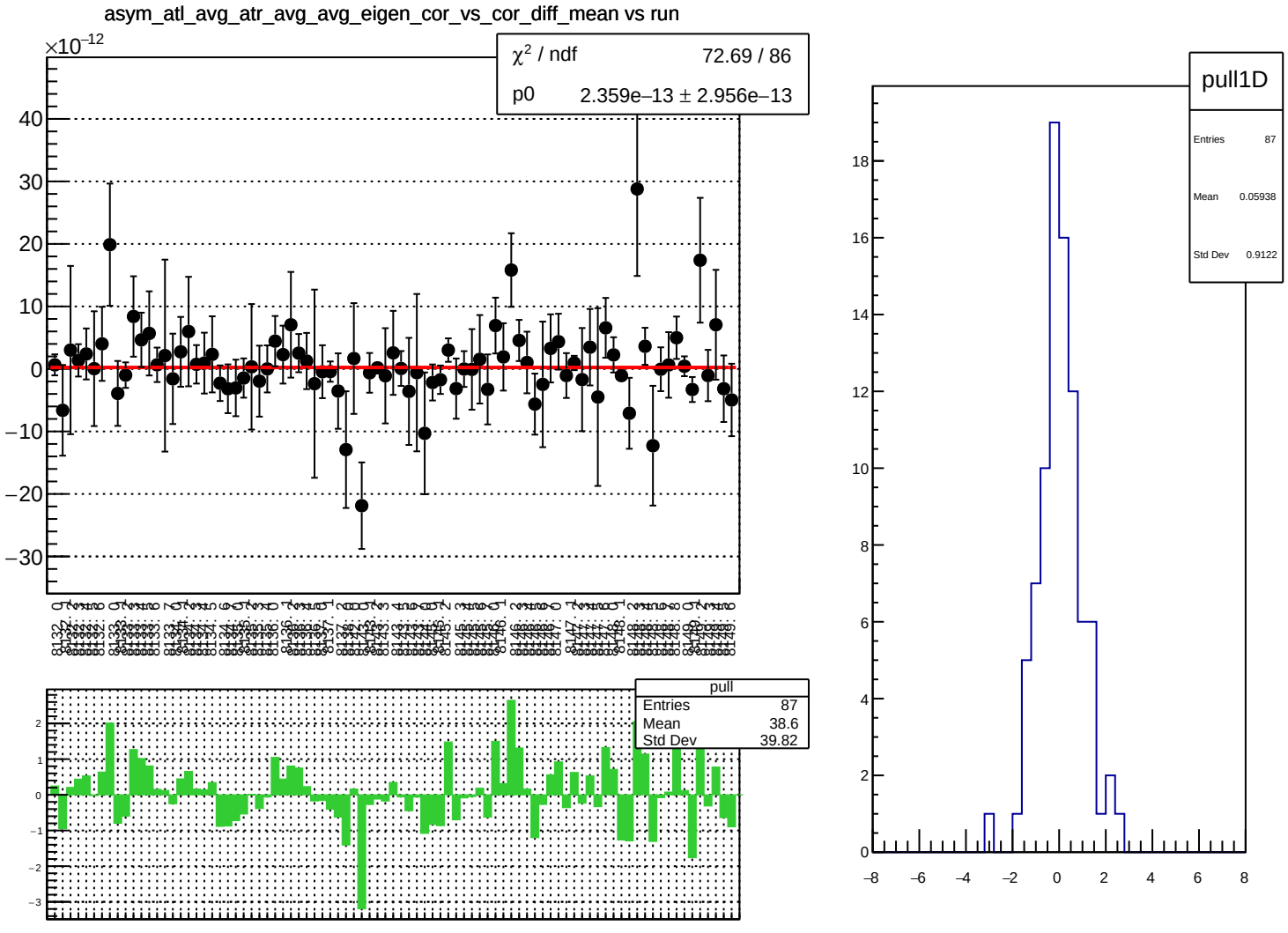

pull1D
Entries 87
Mean −0.009156
Std Dev 0.9492

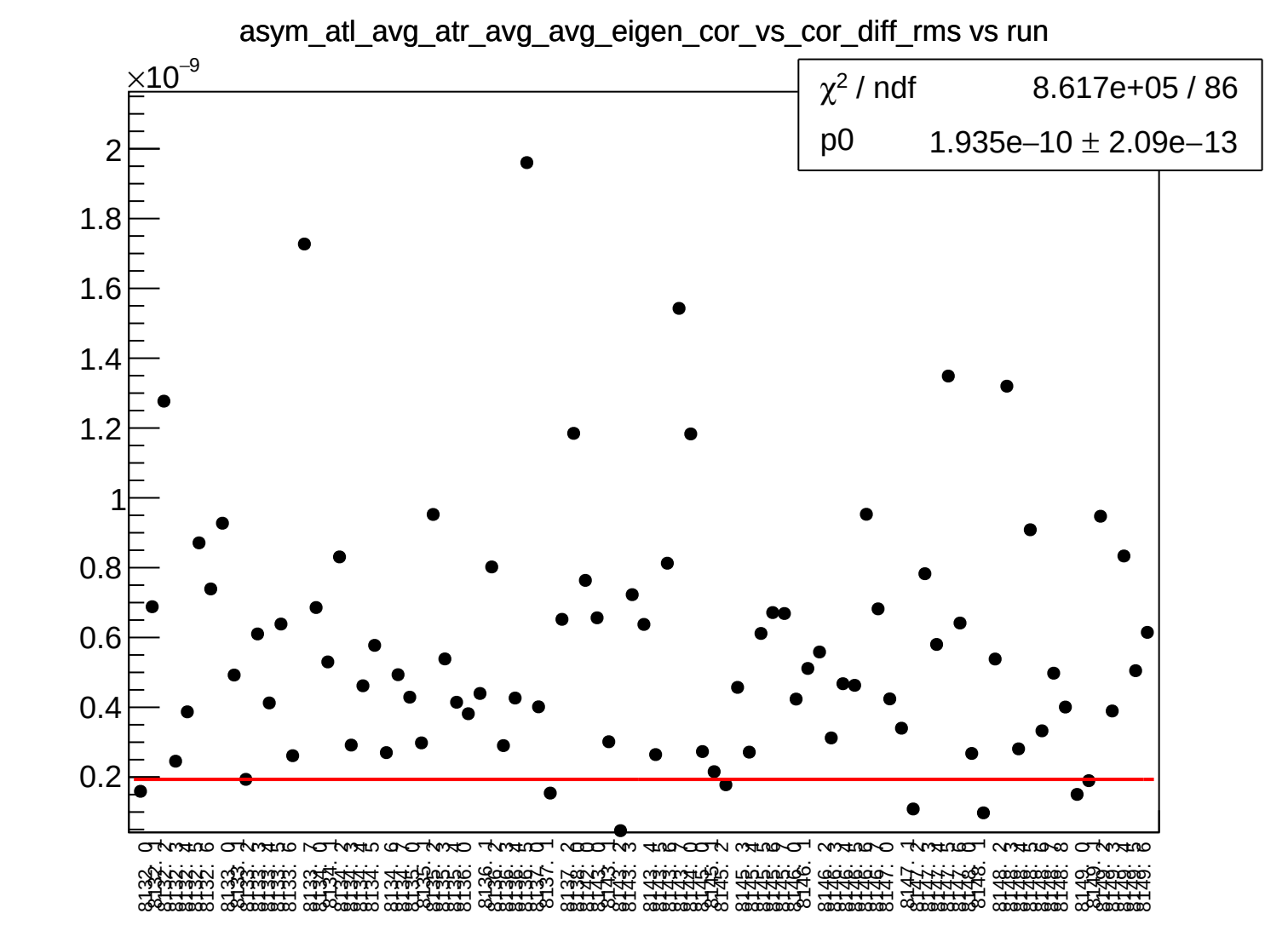

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.581e+04 / 86
p0 122.2 ± 0.09533
500
400
300
200
100

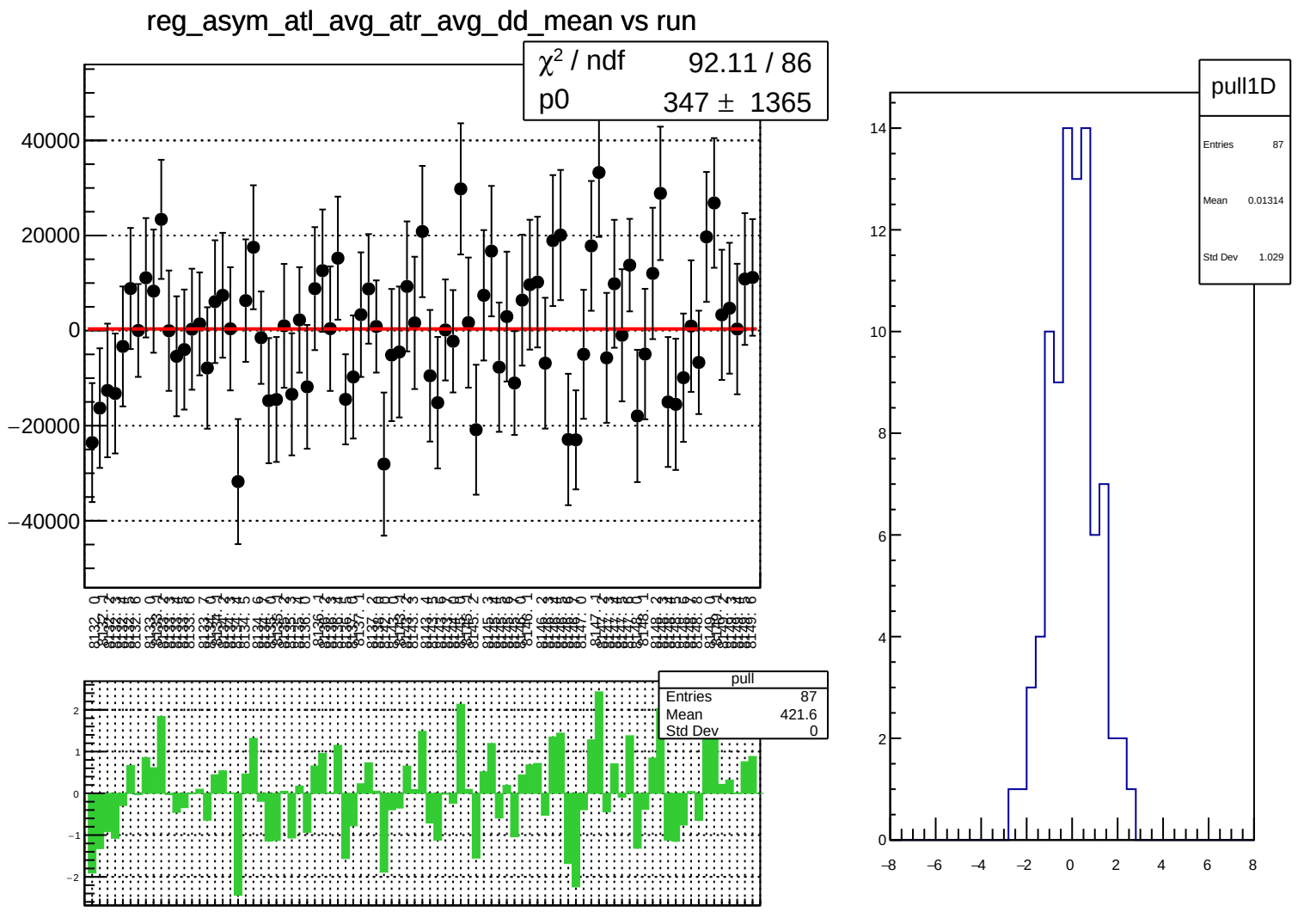

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.39 / 86
p0 0.1743 ± 0.1348
pull
Entries 87
Mean −20
Std Dev 0

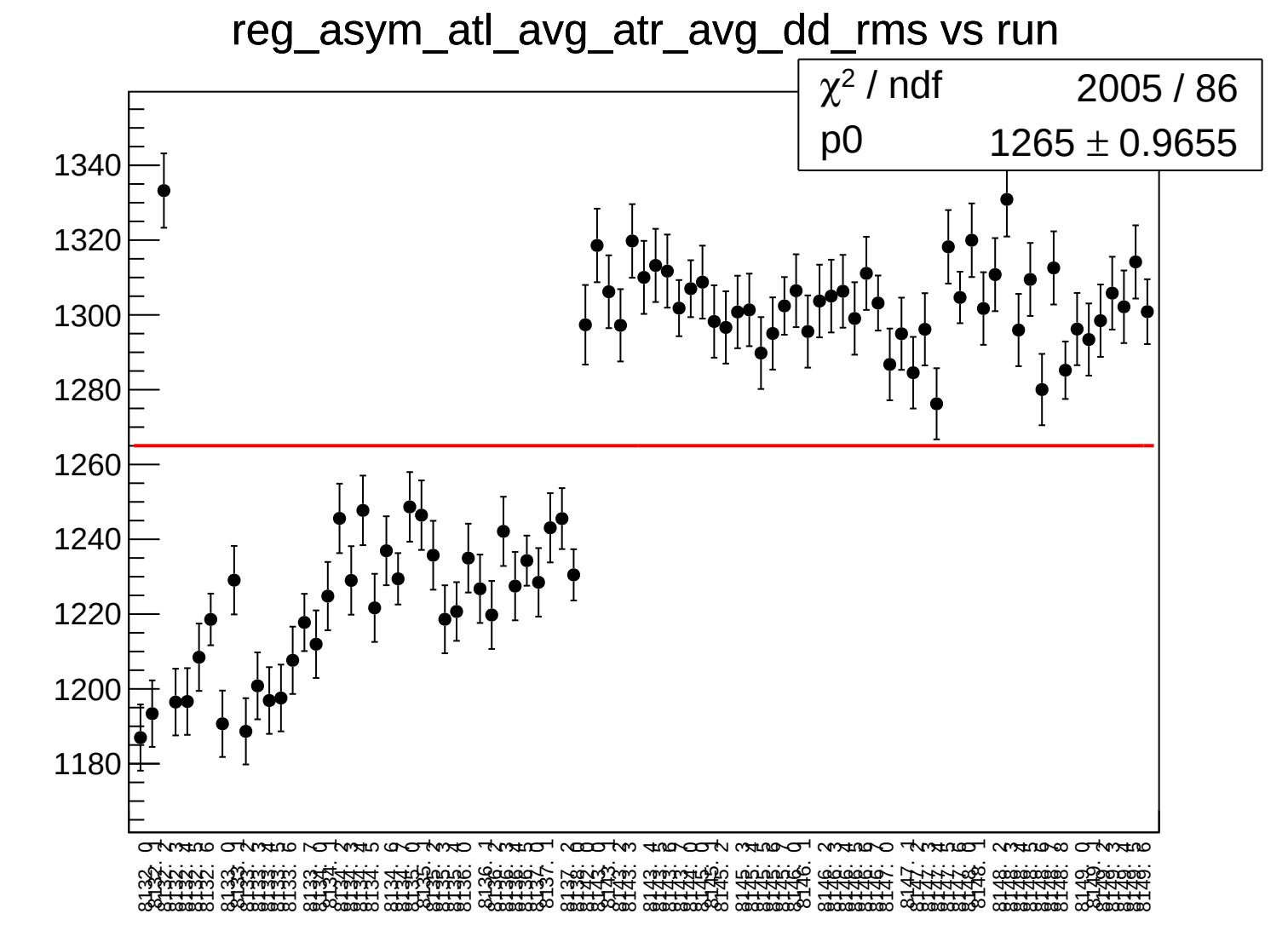

pull1D
Entries 87
Mean −0.009156
Std Dev 0.9492

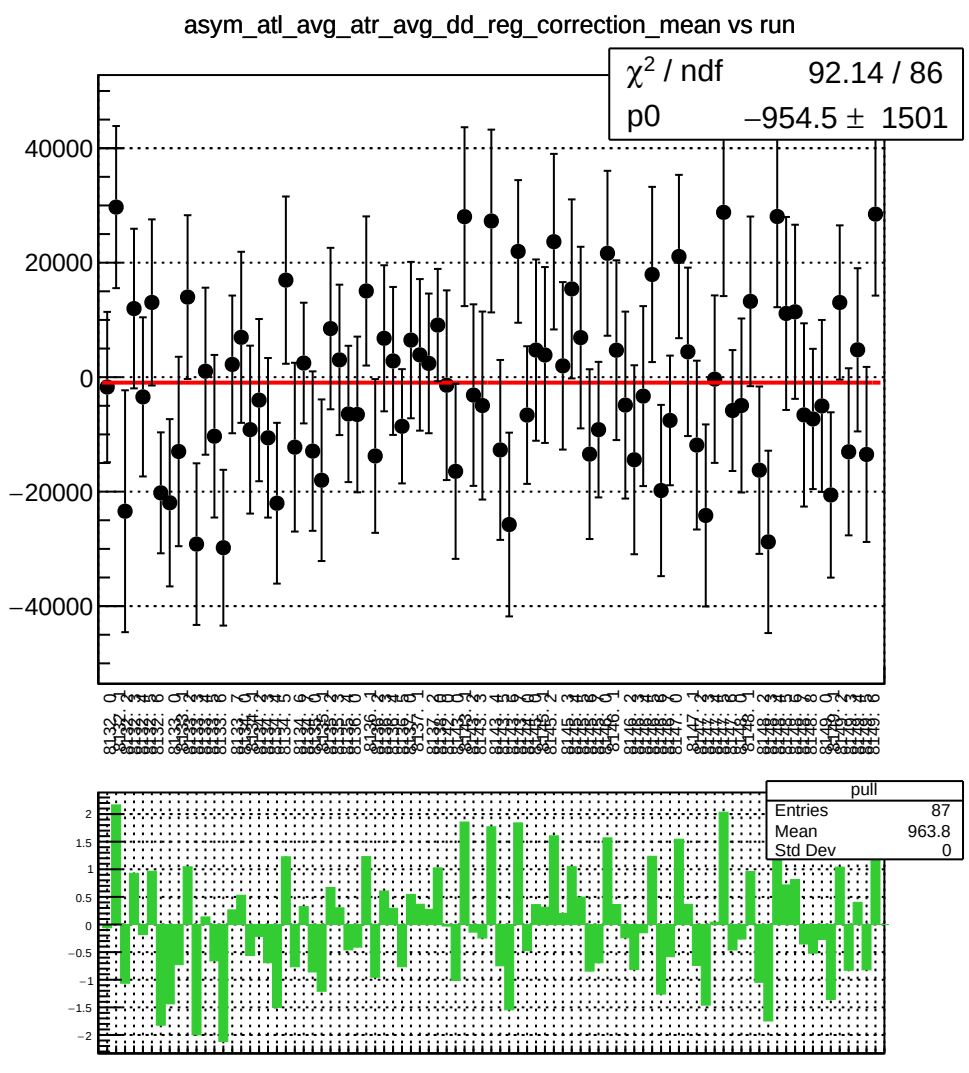

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.581e+04 / 86
p0 122.2 ± 0.09533
500
400
300
200
100

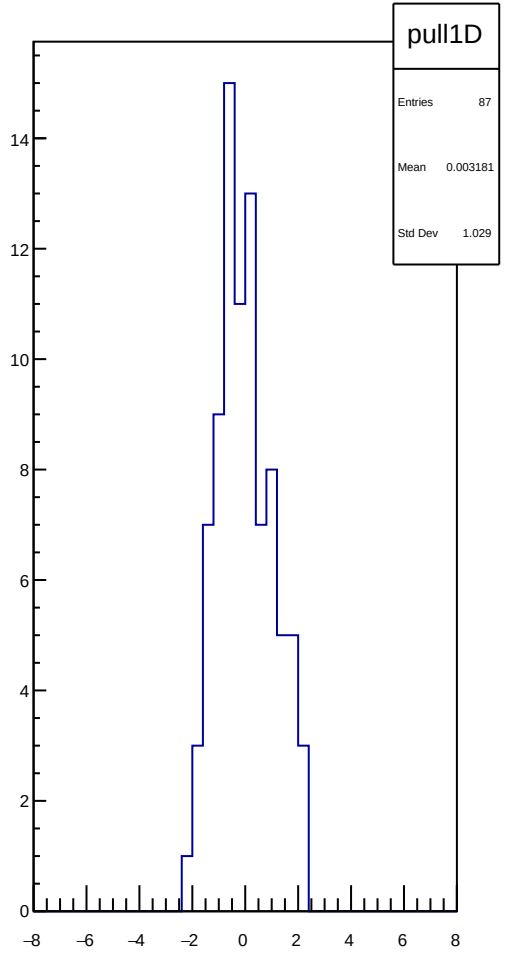

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.69 / 86
p0 2.359e−13 ± 2.956e−13
pull
Entries 87
Mean 38.6
Std Dev 39.82
pull1D
Entries 87
Mean 0.05938
Std Dev 0.9122

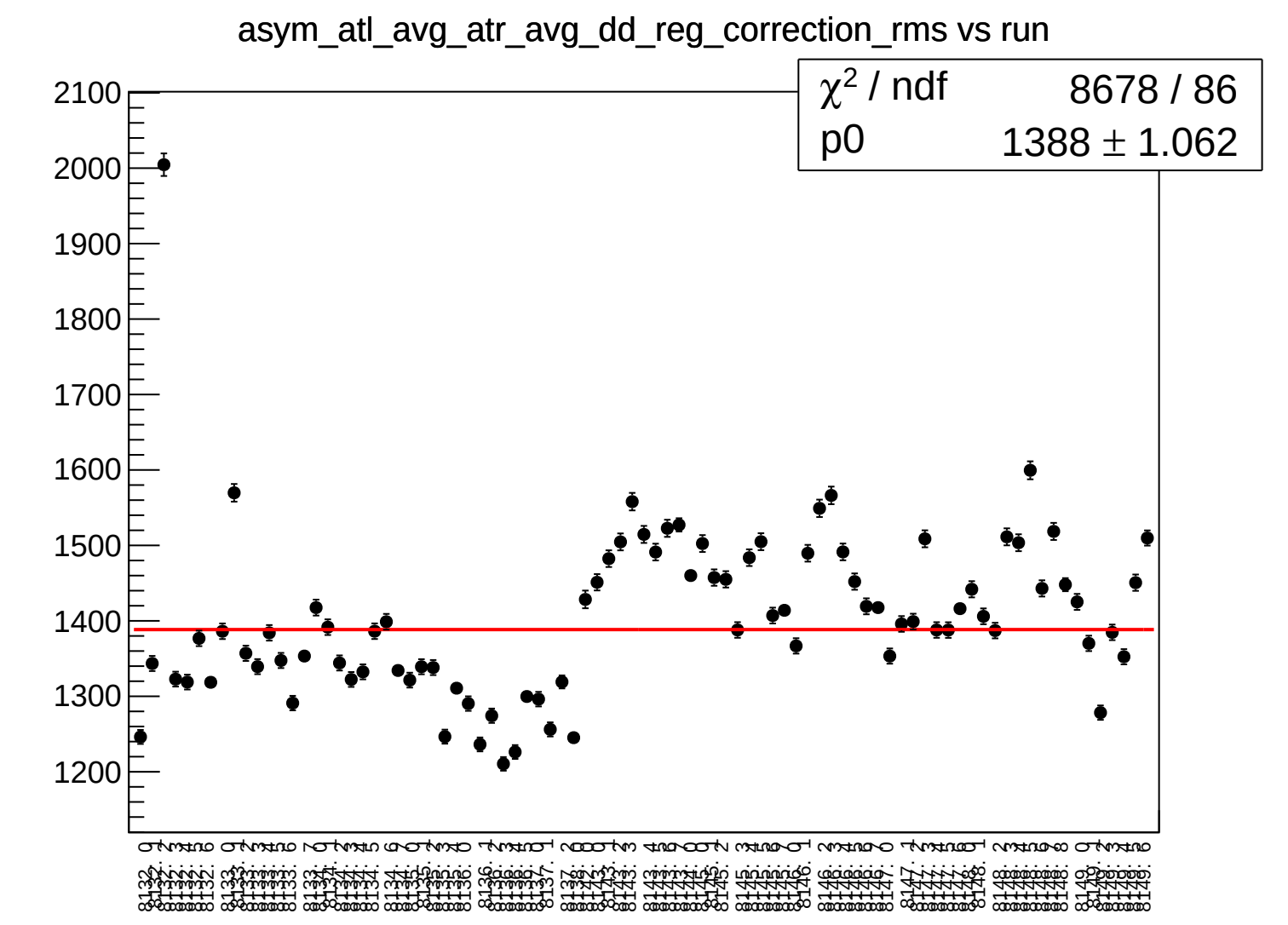

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.617e+05 / 86
p0 1.935e−10 ± 2.09e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

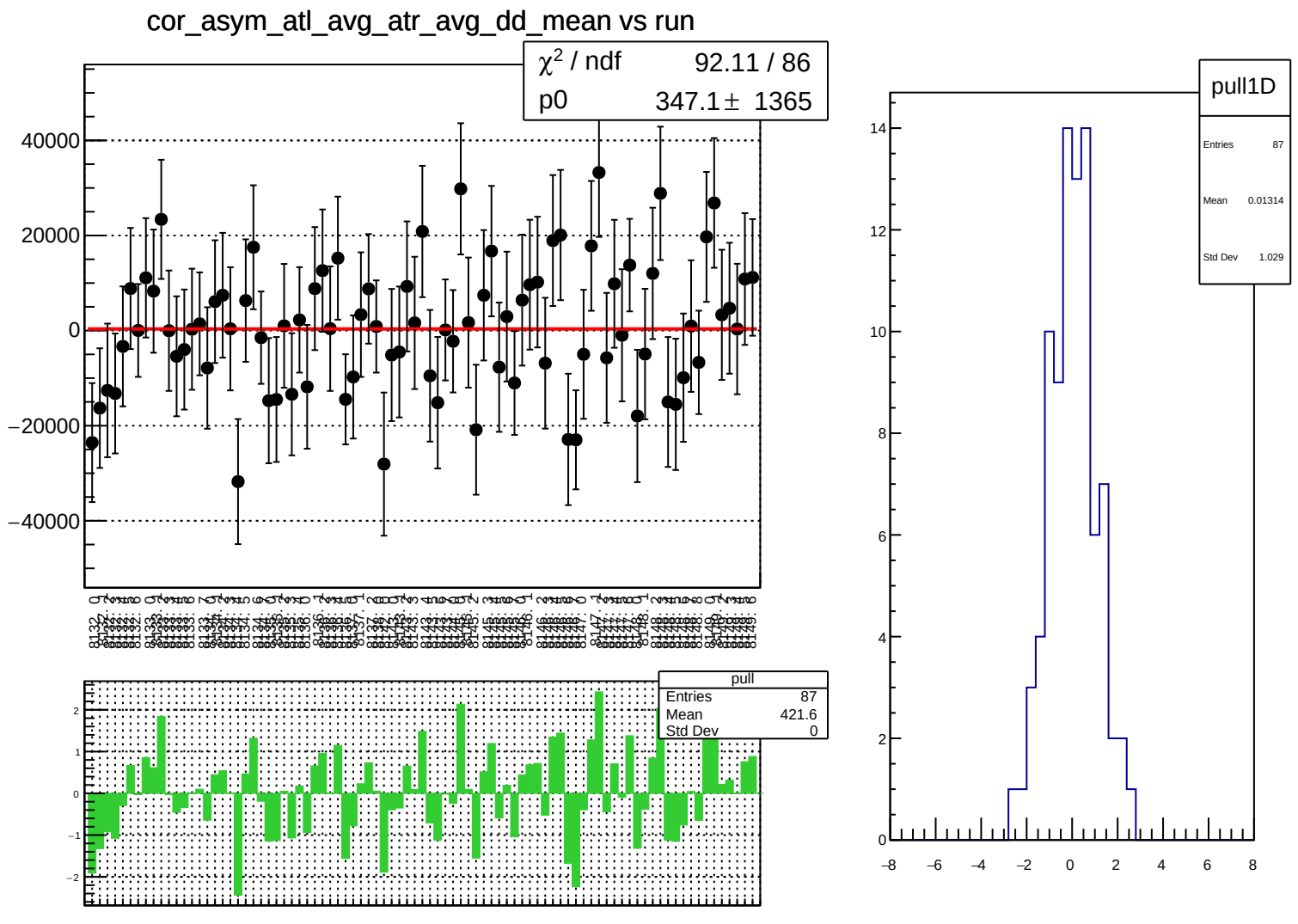

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 92.11 / 86
p0 347 ± 1365
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 421.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.01314
Std Dev 1.029
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

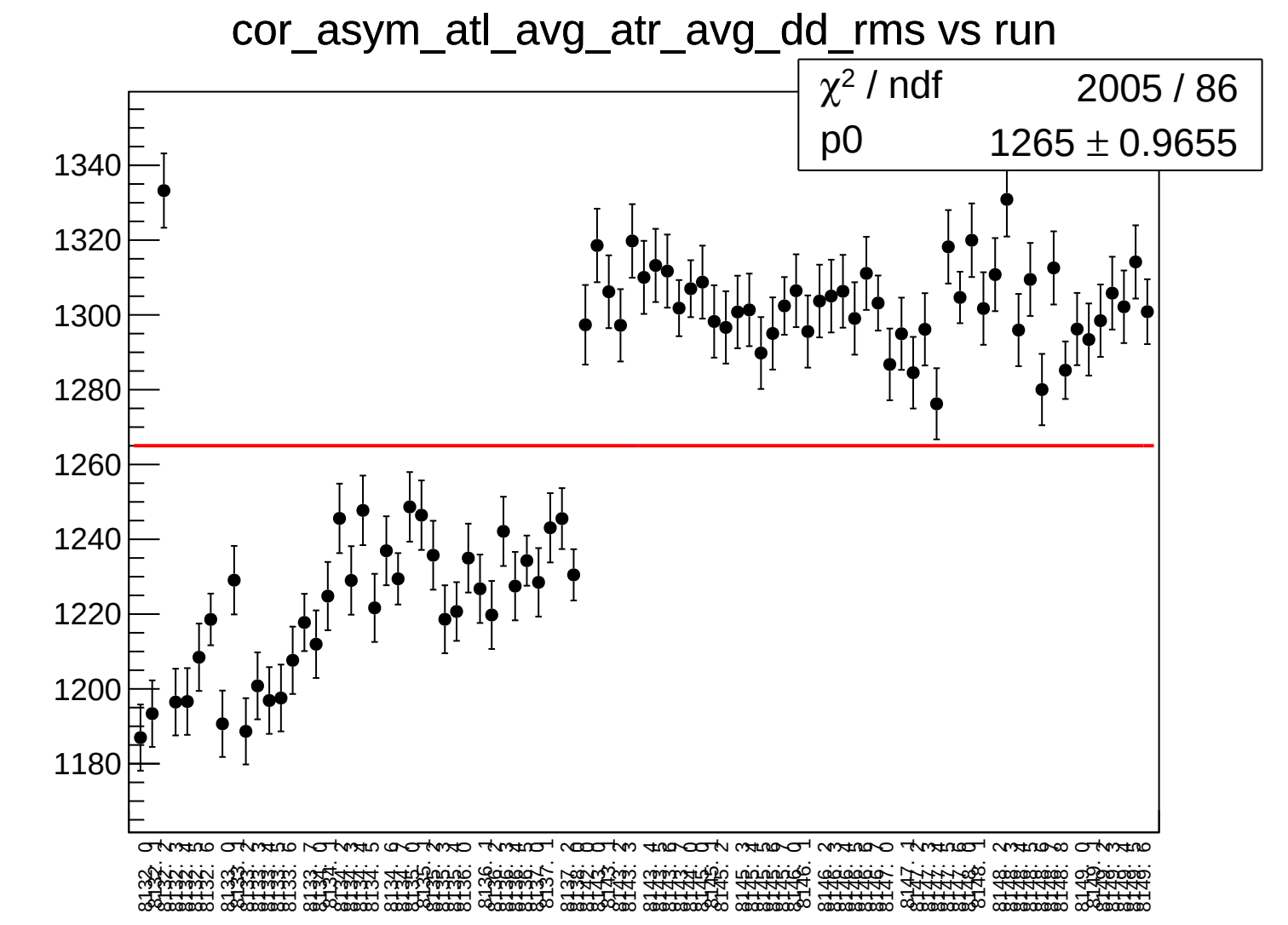

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 2005 / 86
p0 1265 ± 0.9655
1340
1320
1300
1280
1260
1240
1220
1200
1180

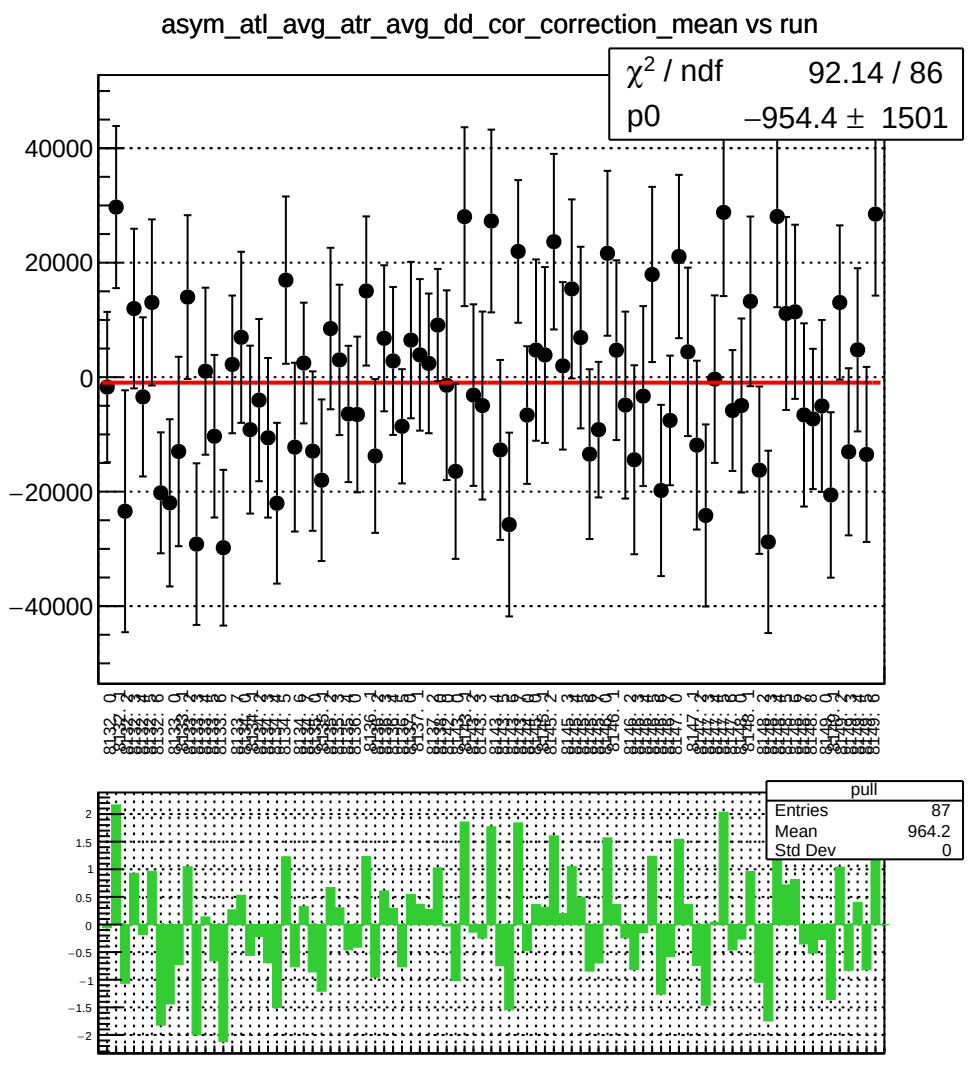

asym_atl_avg_atr_avg_dd_reg_correction_mean vs run
χ² / ndf 92.14 / 86
p0 −954.5 ± 1501
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 963.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

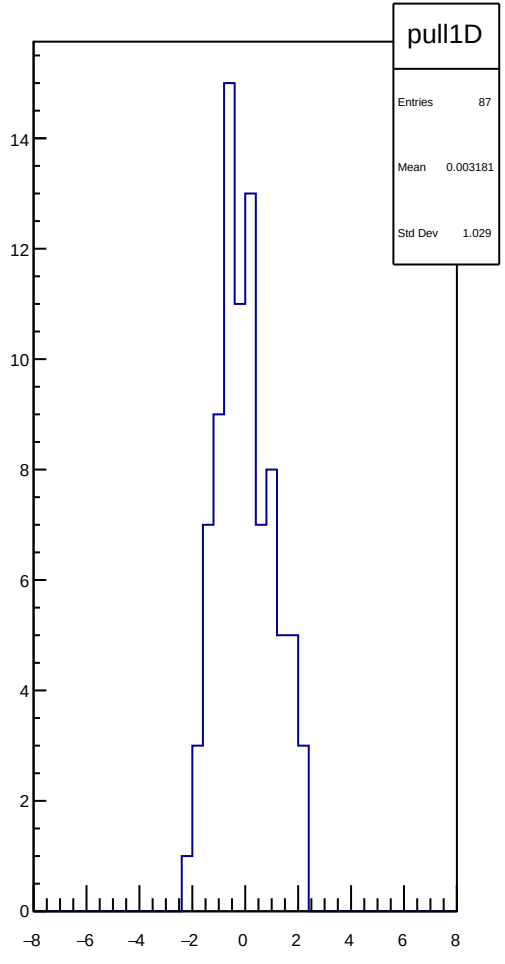

pull1D
Entries 87
Mean 0.003181
Std Dev 1.029
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

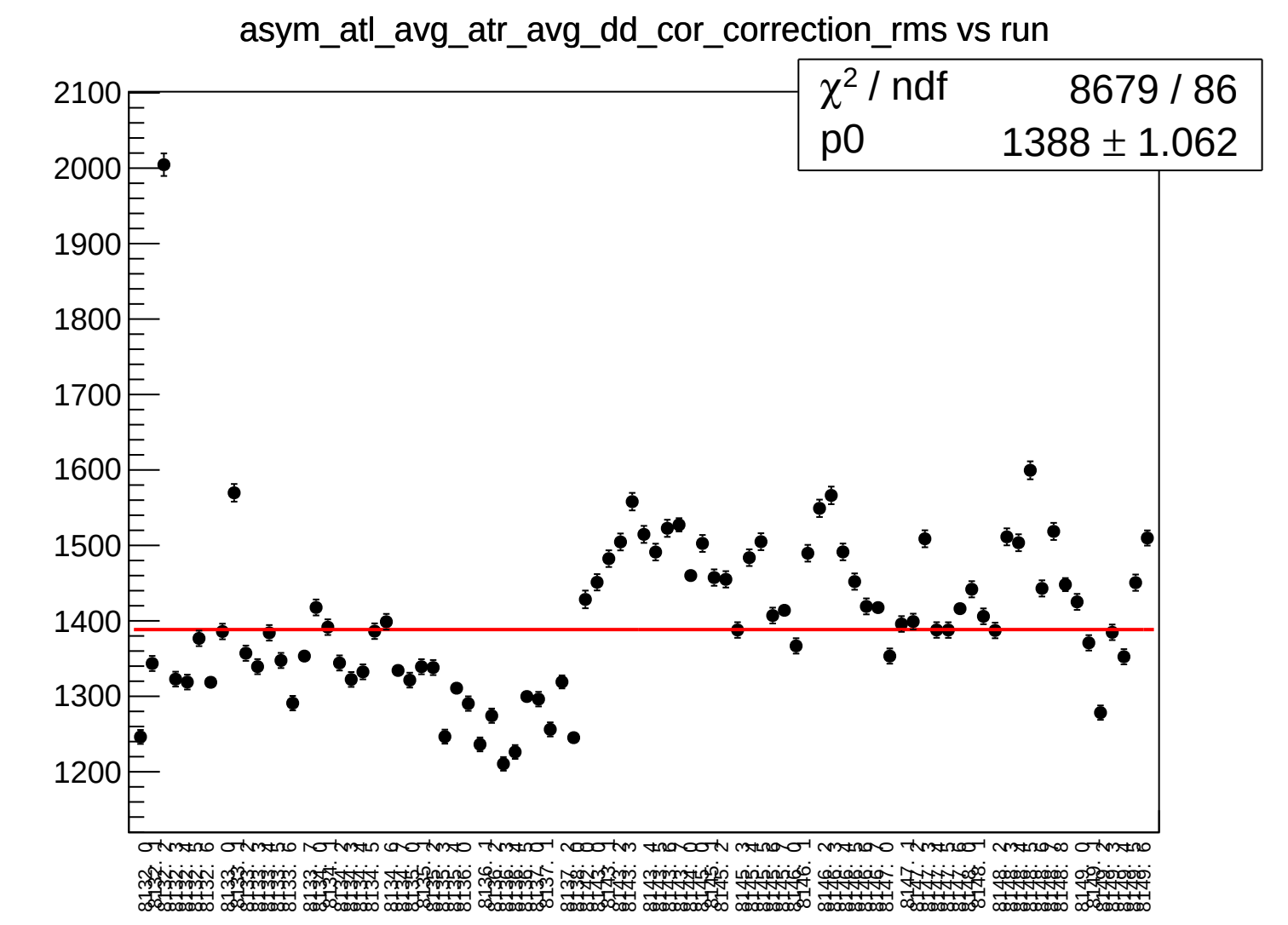

asym_atl_avg_atr_avg_dd_reg_correction_rms vs run
χ² / ndf 8678 / 86
p0 1388 ± 1.062
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200

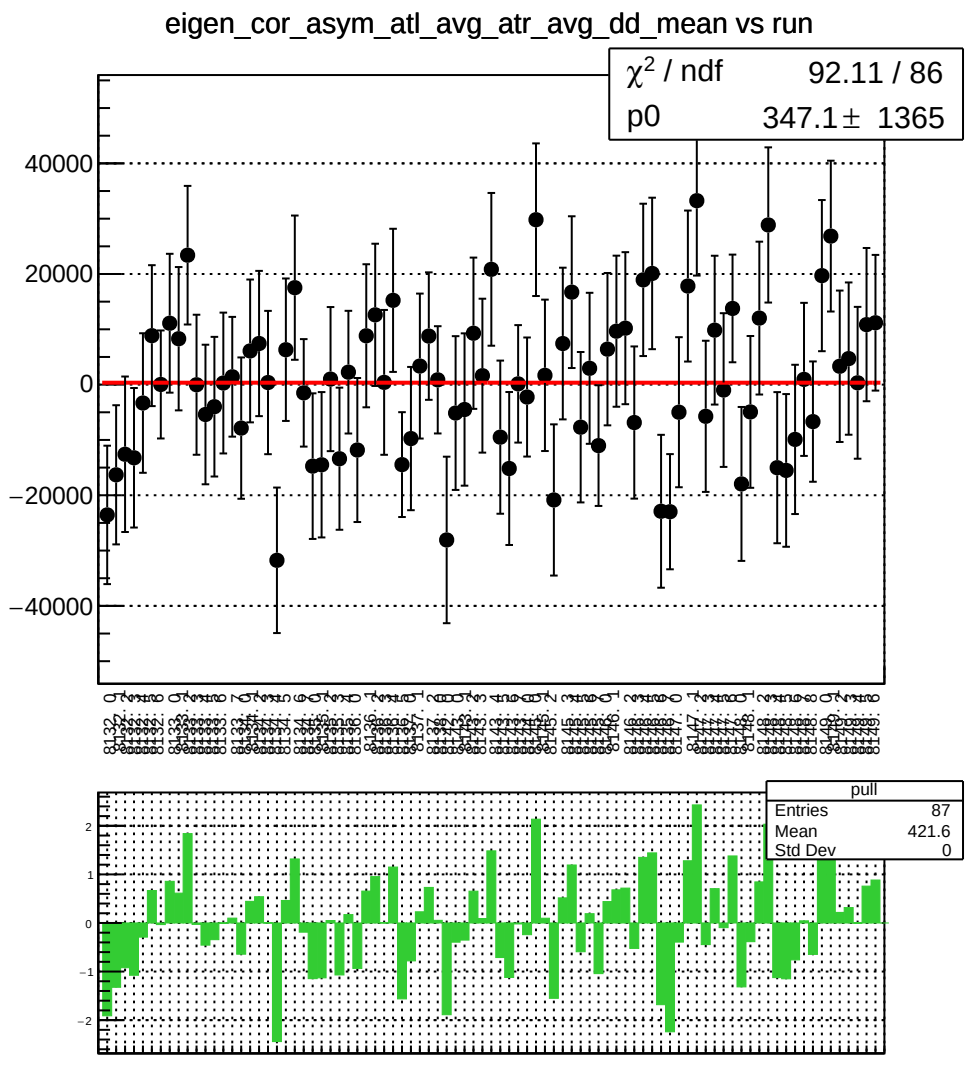

cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 92.11 / 86
p0 347.1 ± 1365
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 421.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.01314
Std Dev 1.029
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

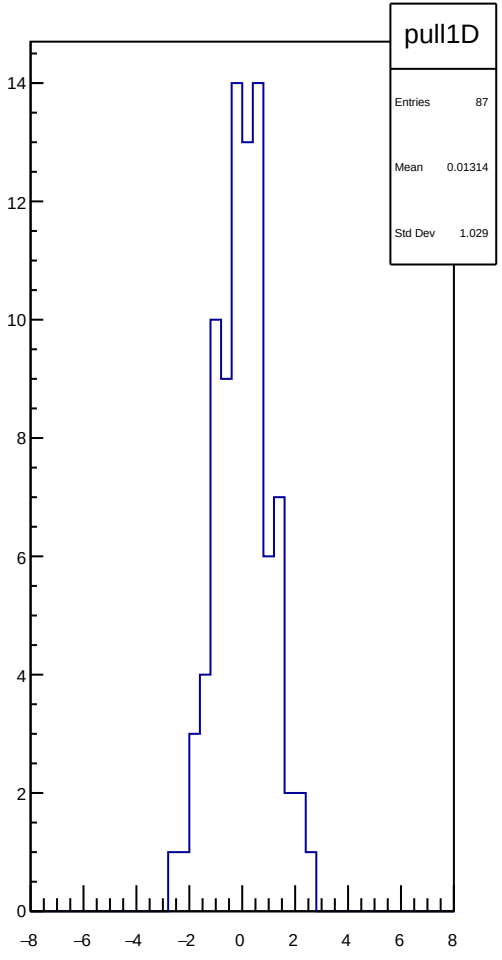

cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 2005 / 86
p0 1265 ± 0.9655
1340
1320
1300
1280
1260
1240
1220
1200
1180

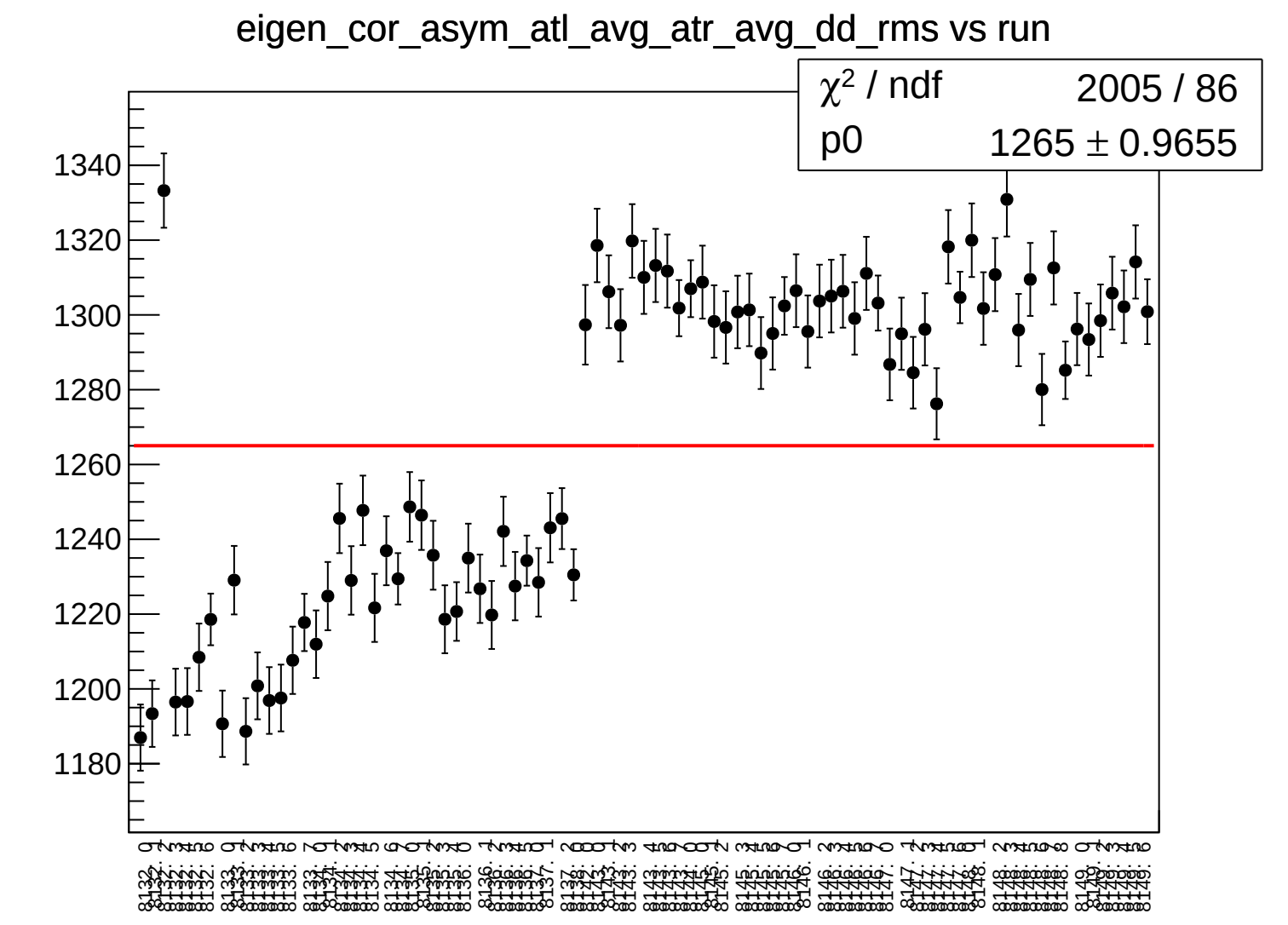

asym_atl_avg_atr_avg_dd_cor_correction_mean vs run
χ² / ndf 92.14 / 86
p0 −954.4 ± 1501
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 964.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

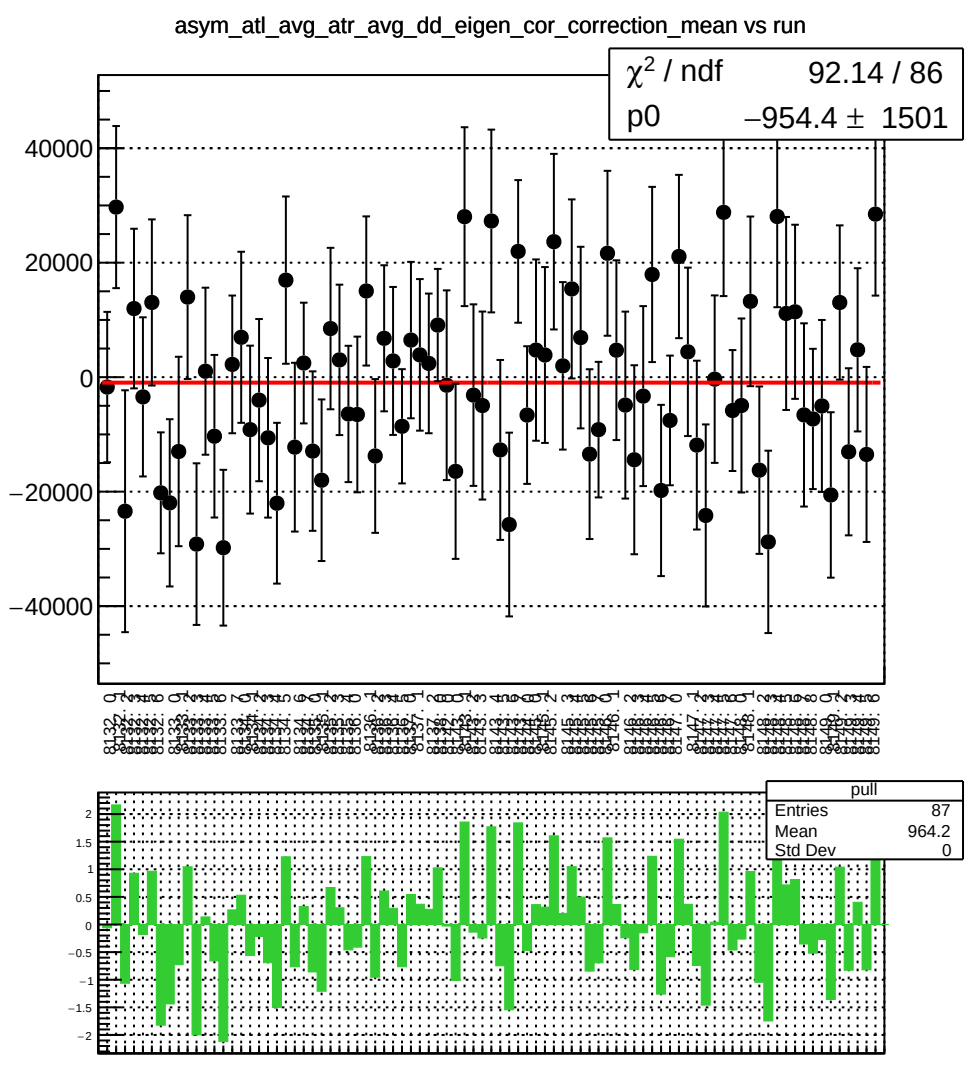

pull1D
Entries 87
Mean 0.003181
Std Dev 1.029
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

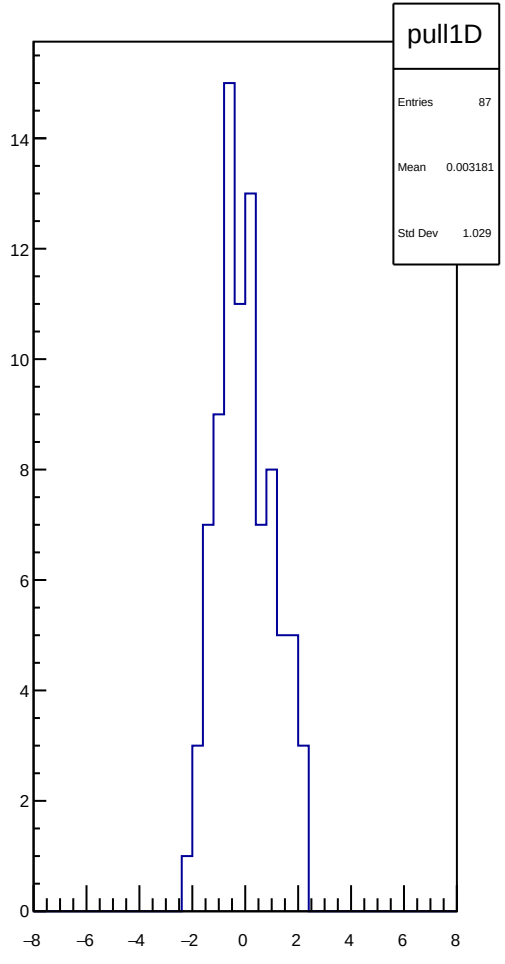

asym_atl_avg_atr_avg_dd_cor_correction_rms vs run
χ² / ndf 8679 / 86
p0 1388 ± 1.062
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200

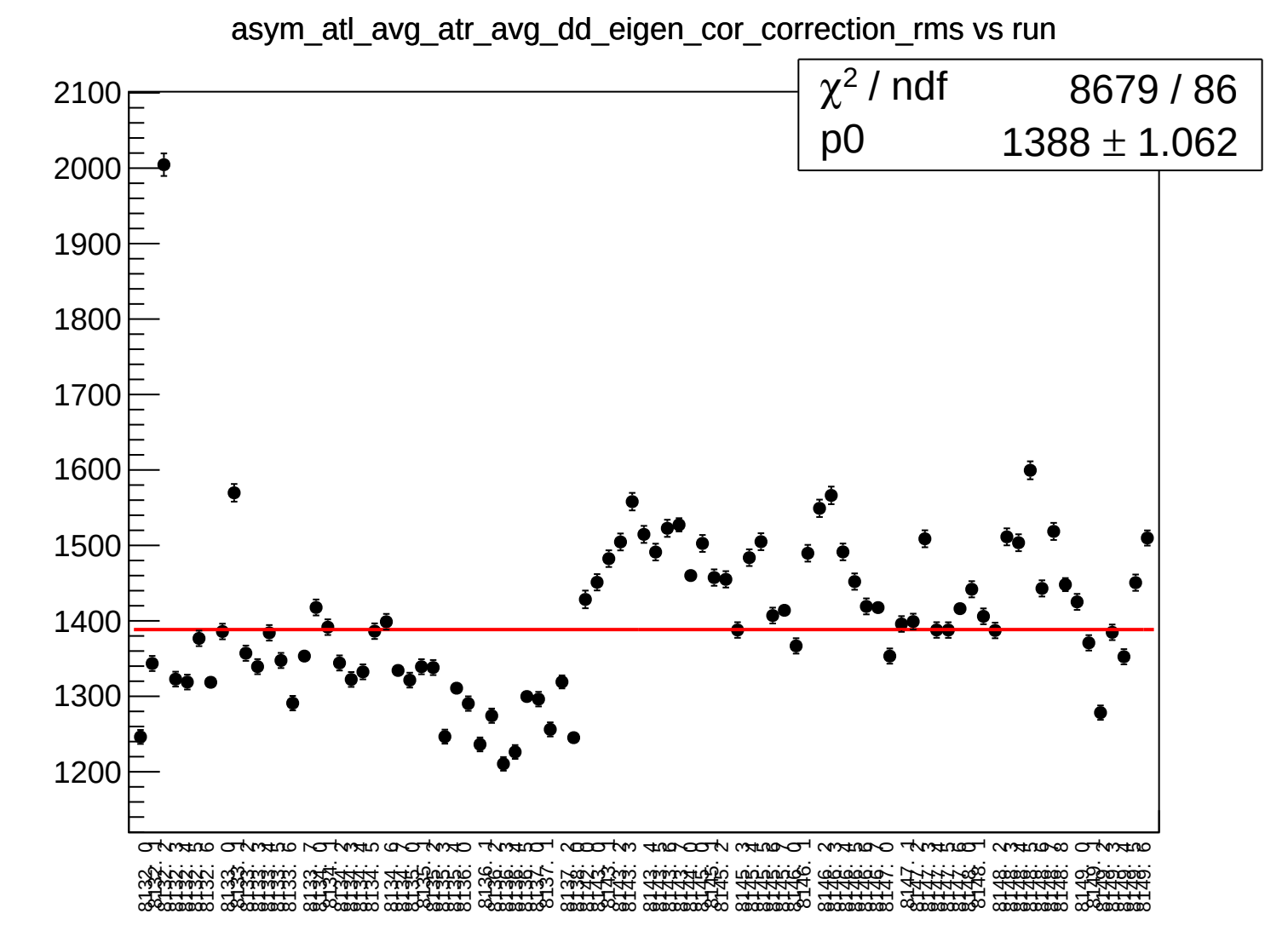

eigen_cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 92.11 / 86
p0 347.1 ± 1365
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 421.6
Std Dev 0
2
1
0
−1
−2

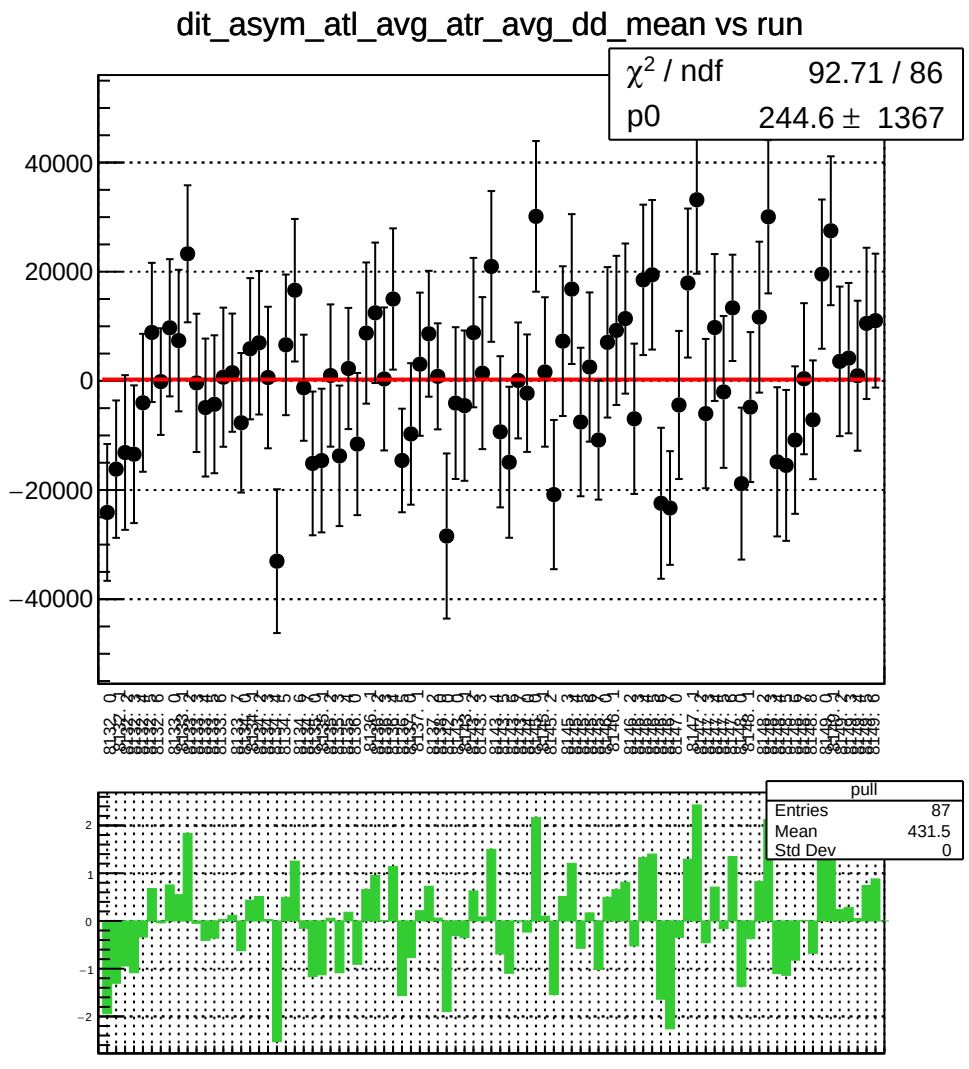

pull1D
Entries 87
Mean 0.01314
Std Dev 1.029
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

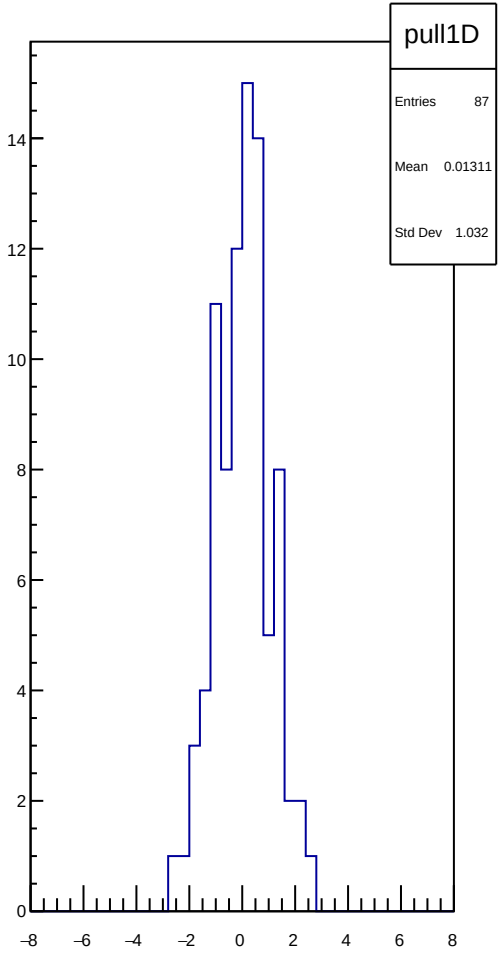

eigen_cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 2005 / 86
p0 1265 ± 0.9655
1340
1320
1300
1280
1260
1240
1220
1200
1180

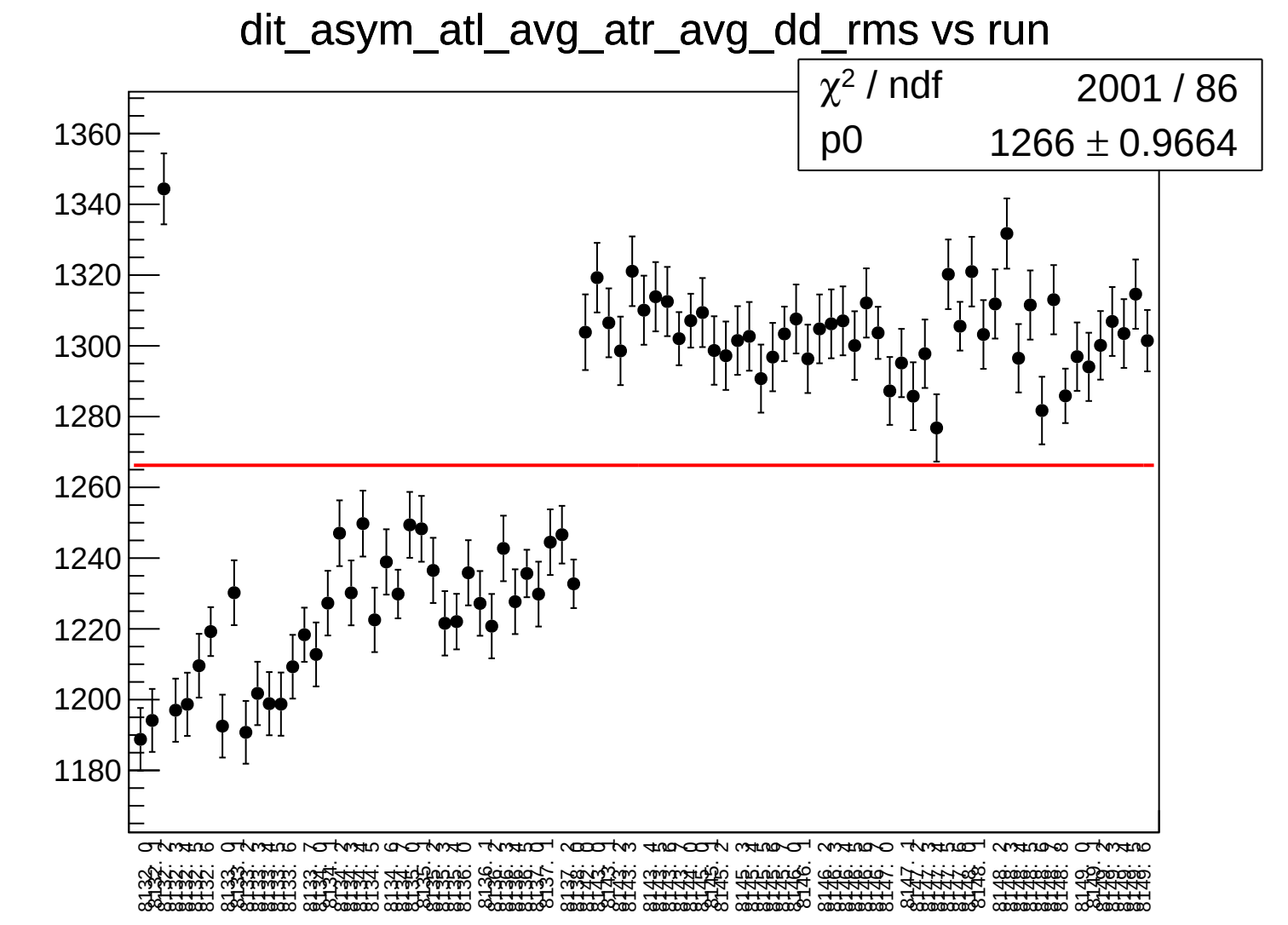

asym_atl_avg_atr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 92.14 / 86
p0 −954.4 ± 1501
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 964.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

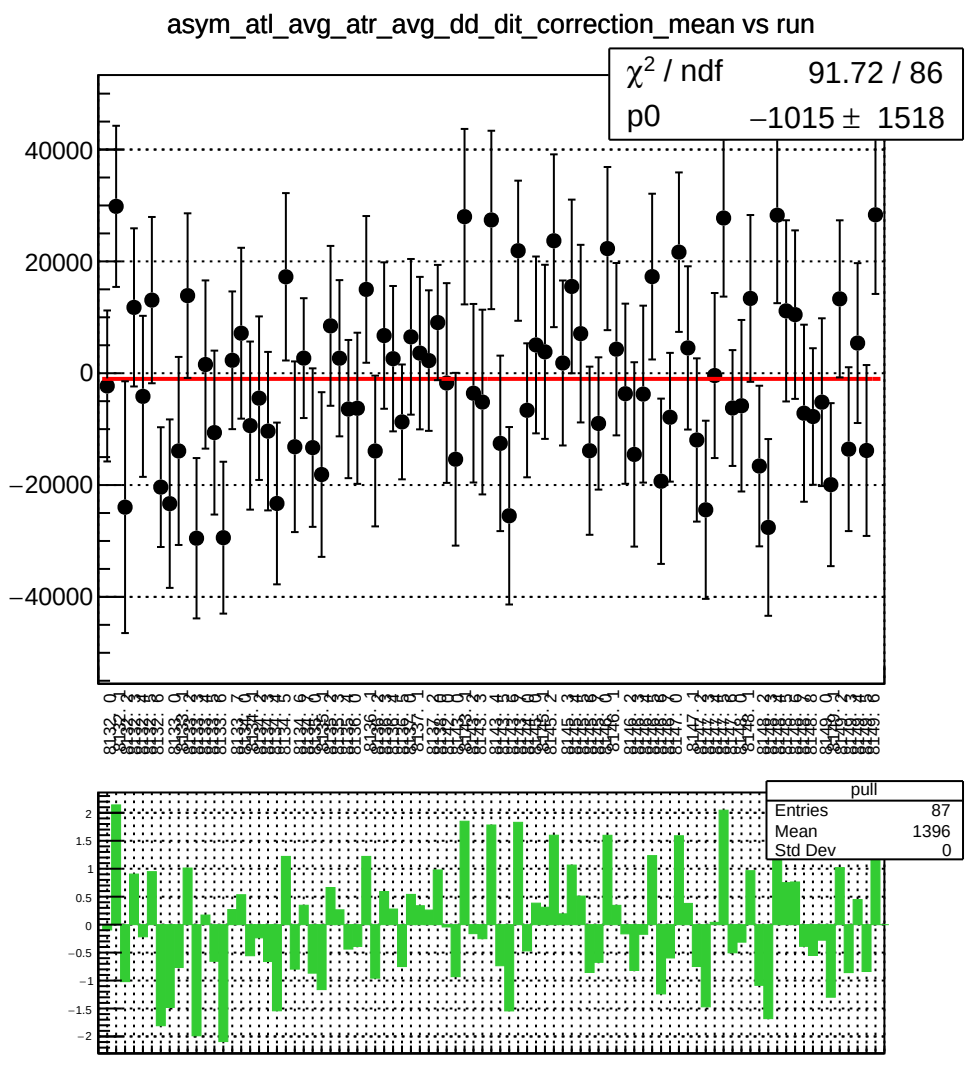

pull1D
Entries 87
Mean 0.003181
Std Dev 1.029
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

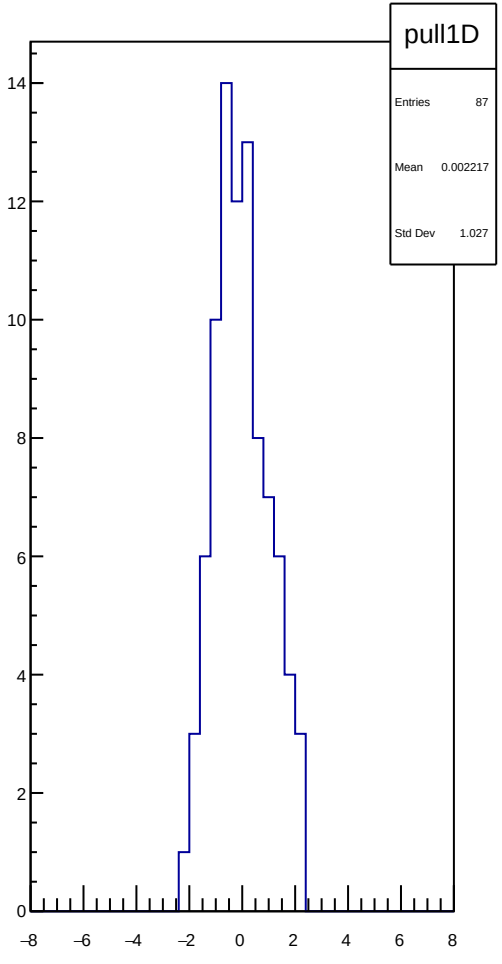

asym_atl_avg_atr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 8679 / 86
p0 1388 ± 1.062
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200

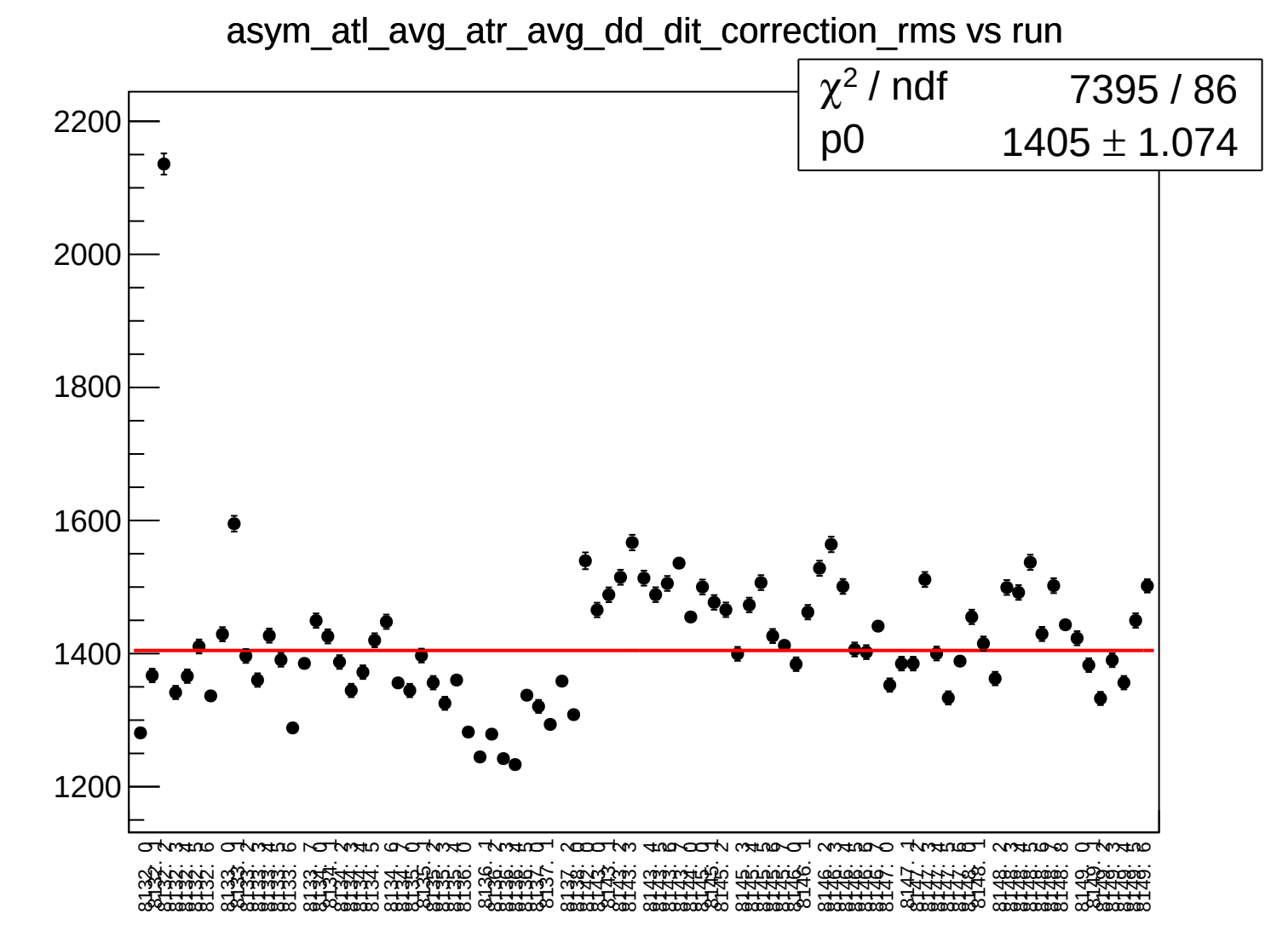

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 92.71 / 86
p0 244.6 ± 1367
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 431.5
Std Dev 0
2
1
0
−1
−2

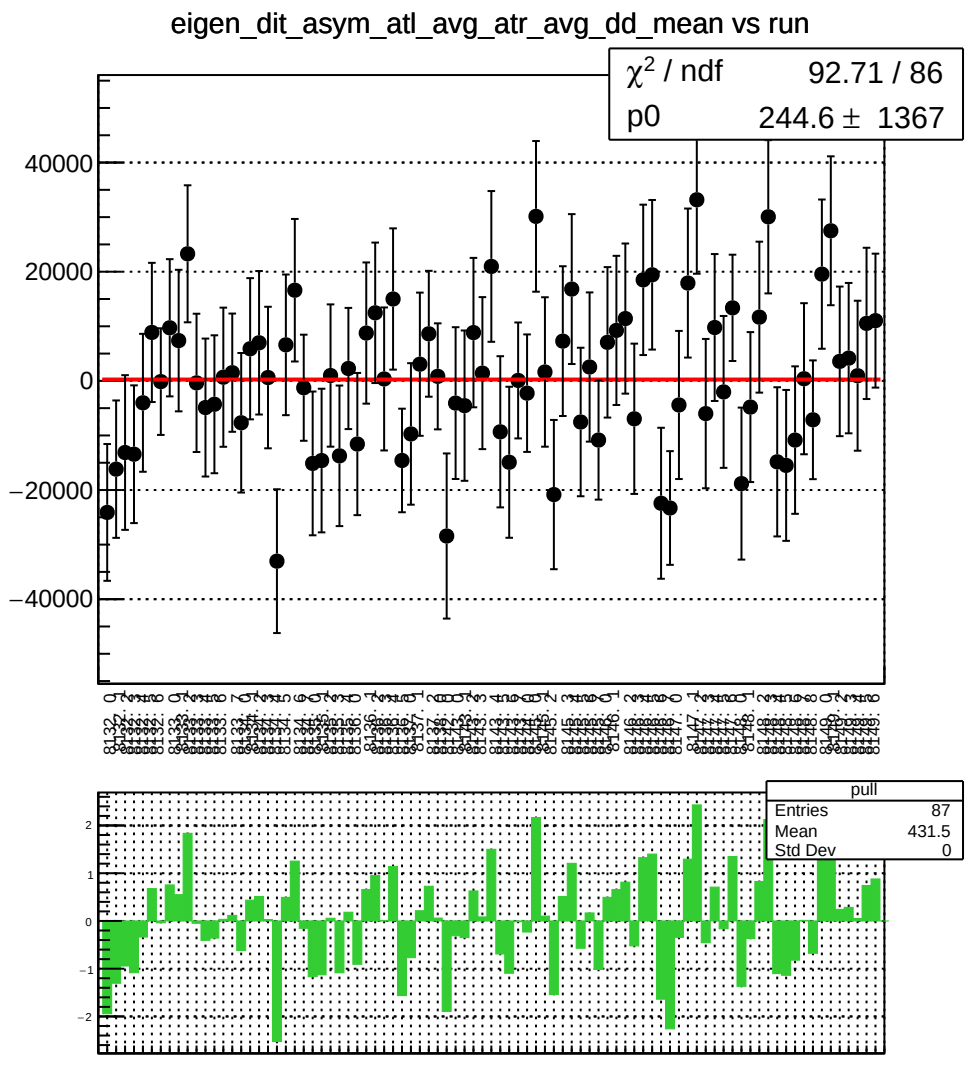

pull1D
Entries 87
Mean 0.01311
Std Dev 1.032
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

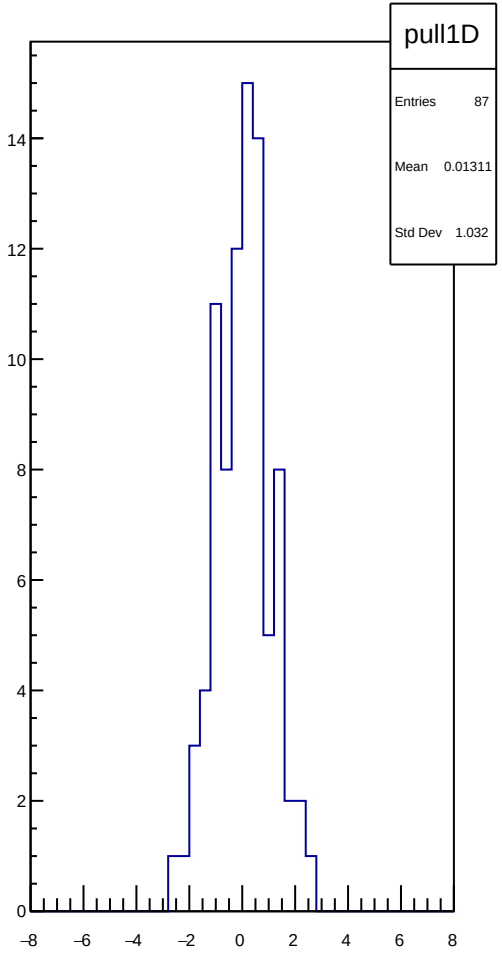

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 2001 / 86
p0 1266 ± 0.9664
1360
1340
1320
1300
1280
1260
1240
1220
1200
1180

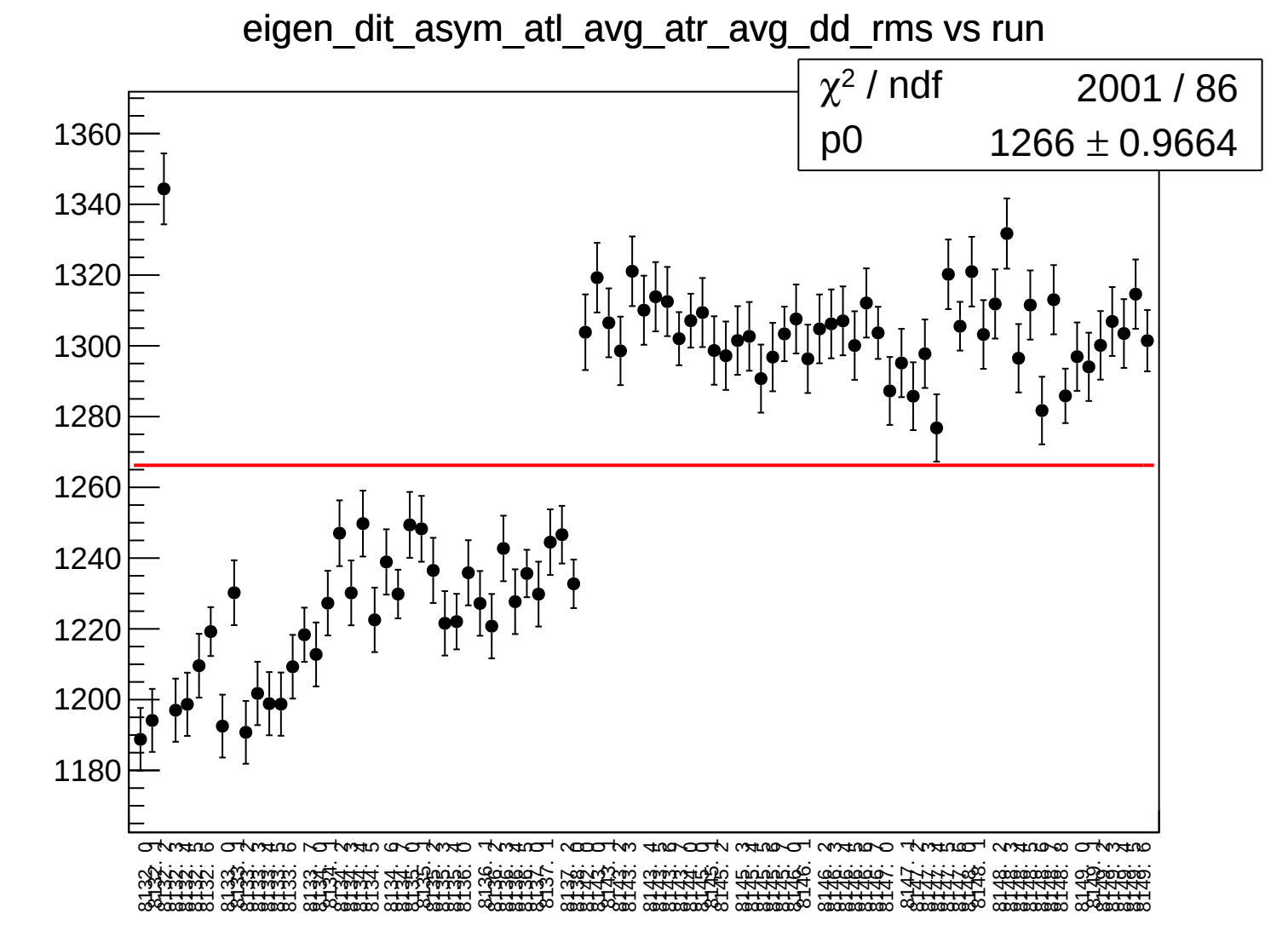

asym_atl_avg_atr_avg_dd_dit_correction_mean vs run
χ² / ndf 91.72 / 86
p0 −1015 ± 1518
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 1396
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

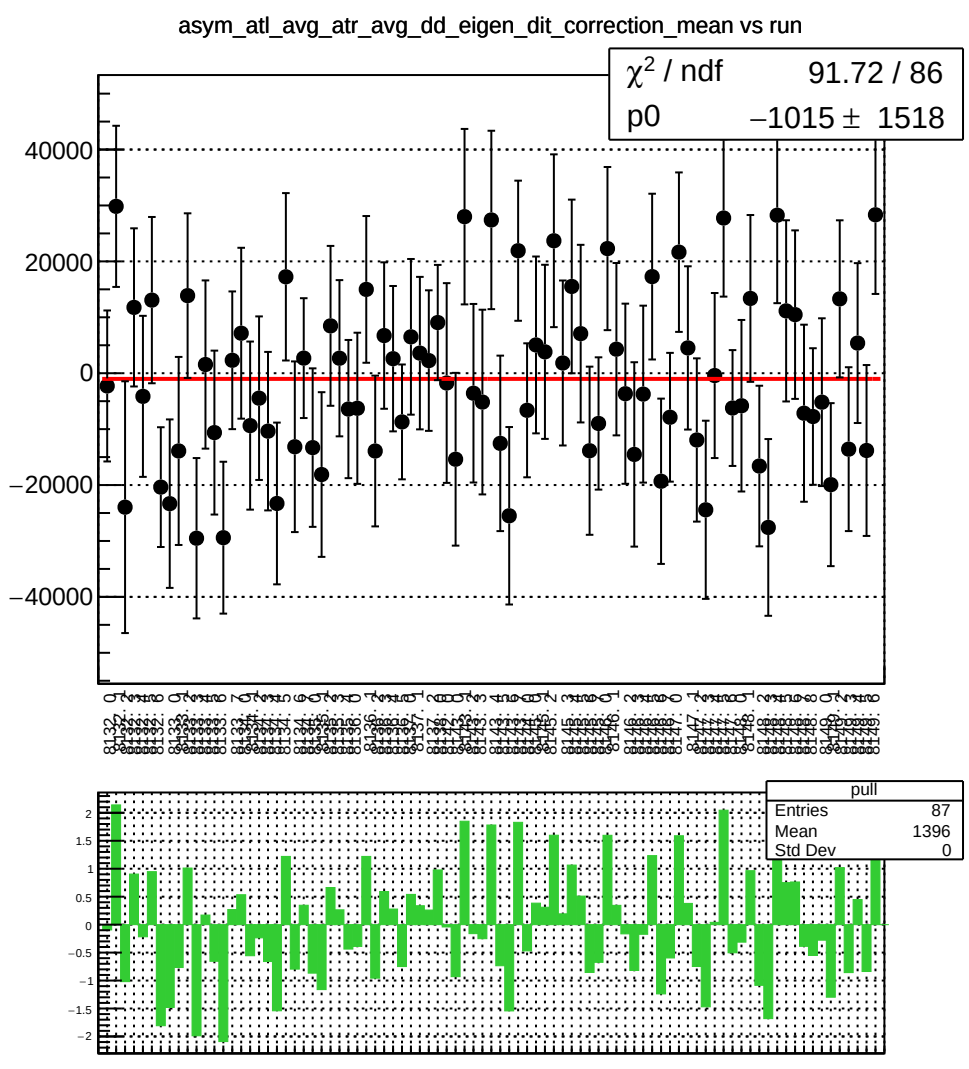

pull1D
Entries 87
Mean 0.002217
Std Dev 1.027
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

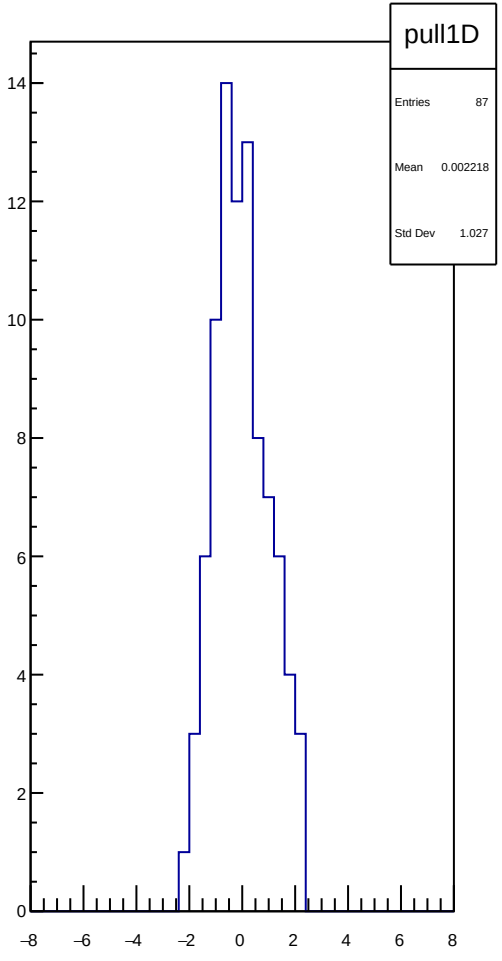

asym_atl_avg_atr_avg_dd_dit_correction_rms vs run
χ² / ndf 7395 / 86
p0 1405 ± 1.074
2200
2000
1800
1600
1400
1200

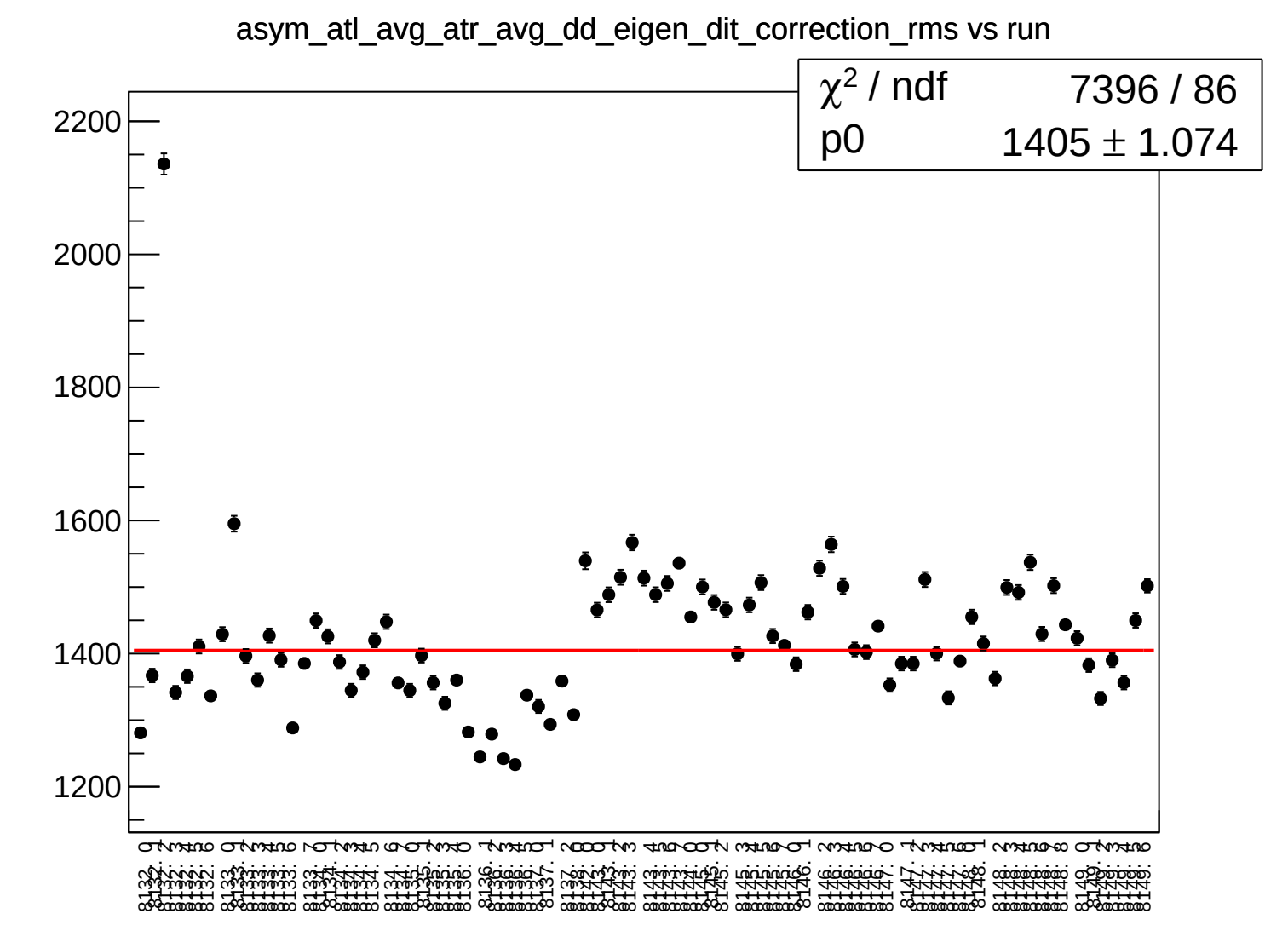

eigen_dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 92.71 / 86
p0 244.6 ± 1367
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 431.5
Std Dev 0
2
1
0
−1
−2

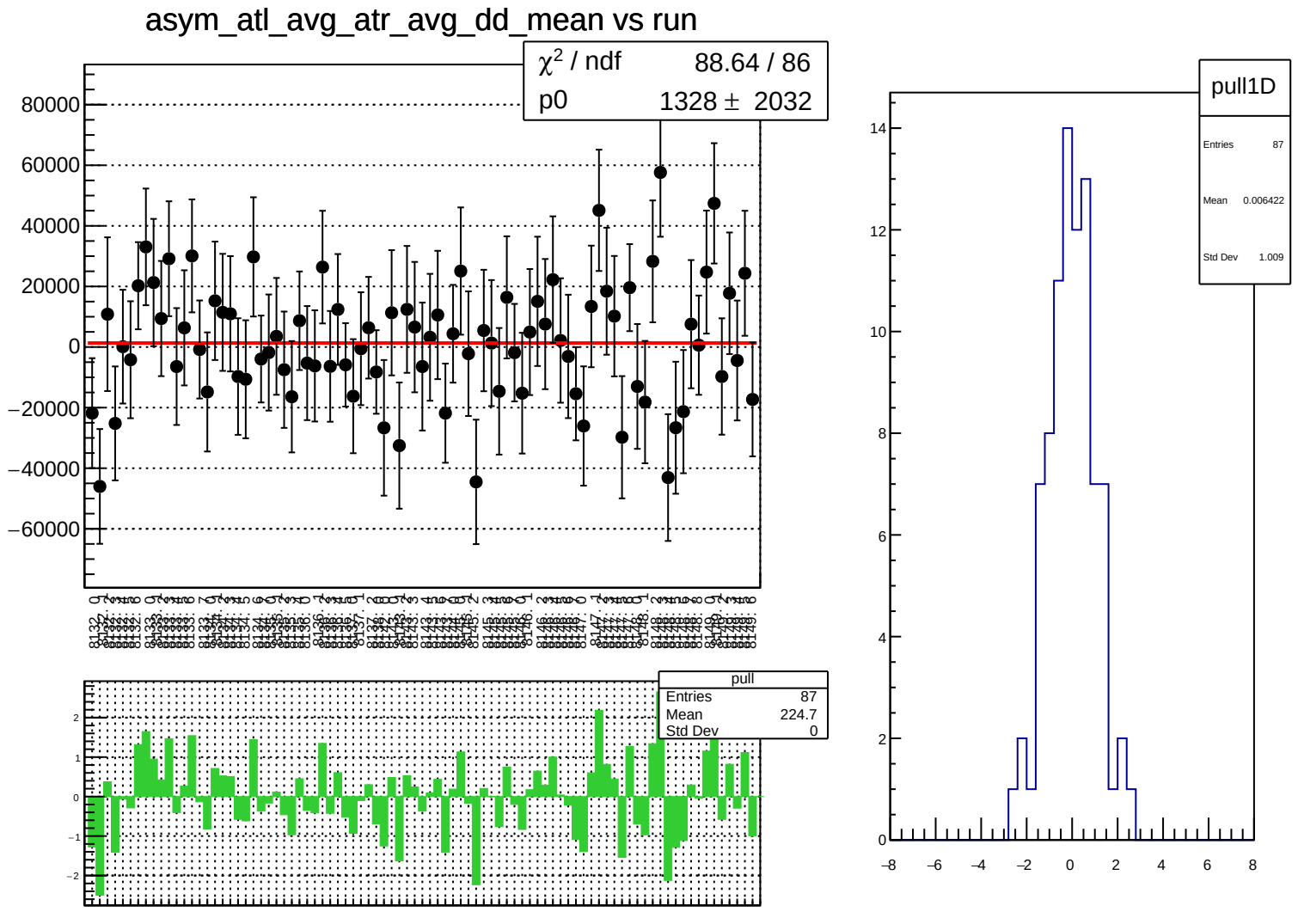

pull1D
Entries 87
Mean 0.01311
Std Dev 1.032
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

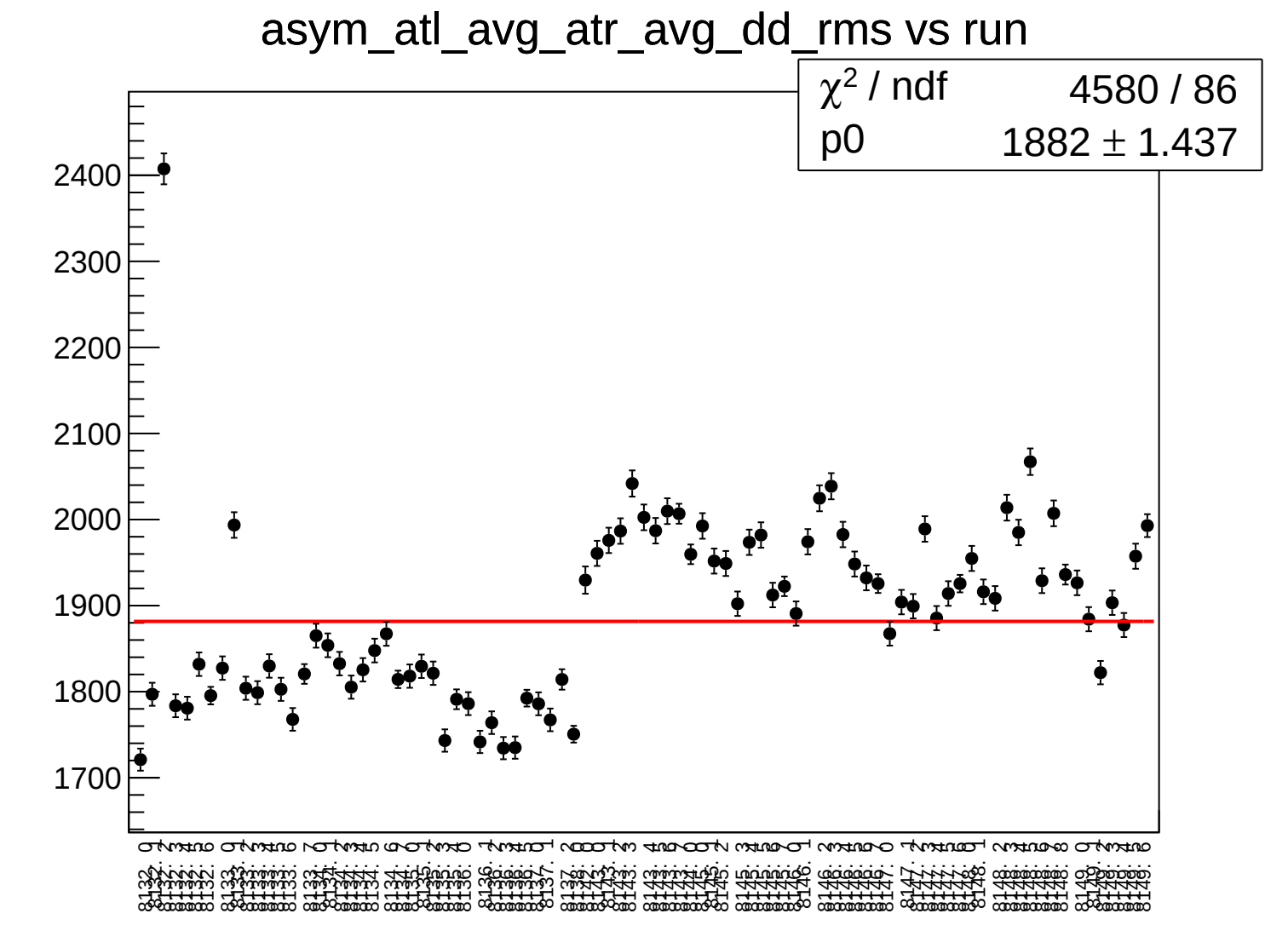

eigen_dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 2001 / 86
p0 1266 ± 0.9664
1360
1340
1320
1300
1280
1260
1240
1220
1200
1180

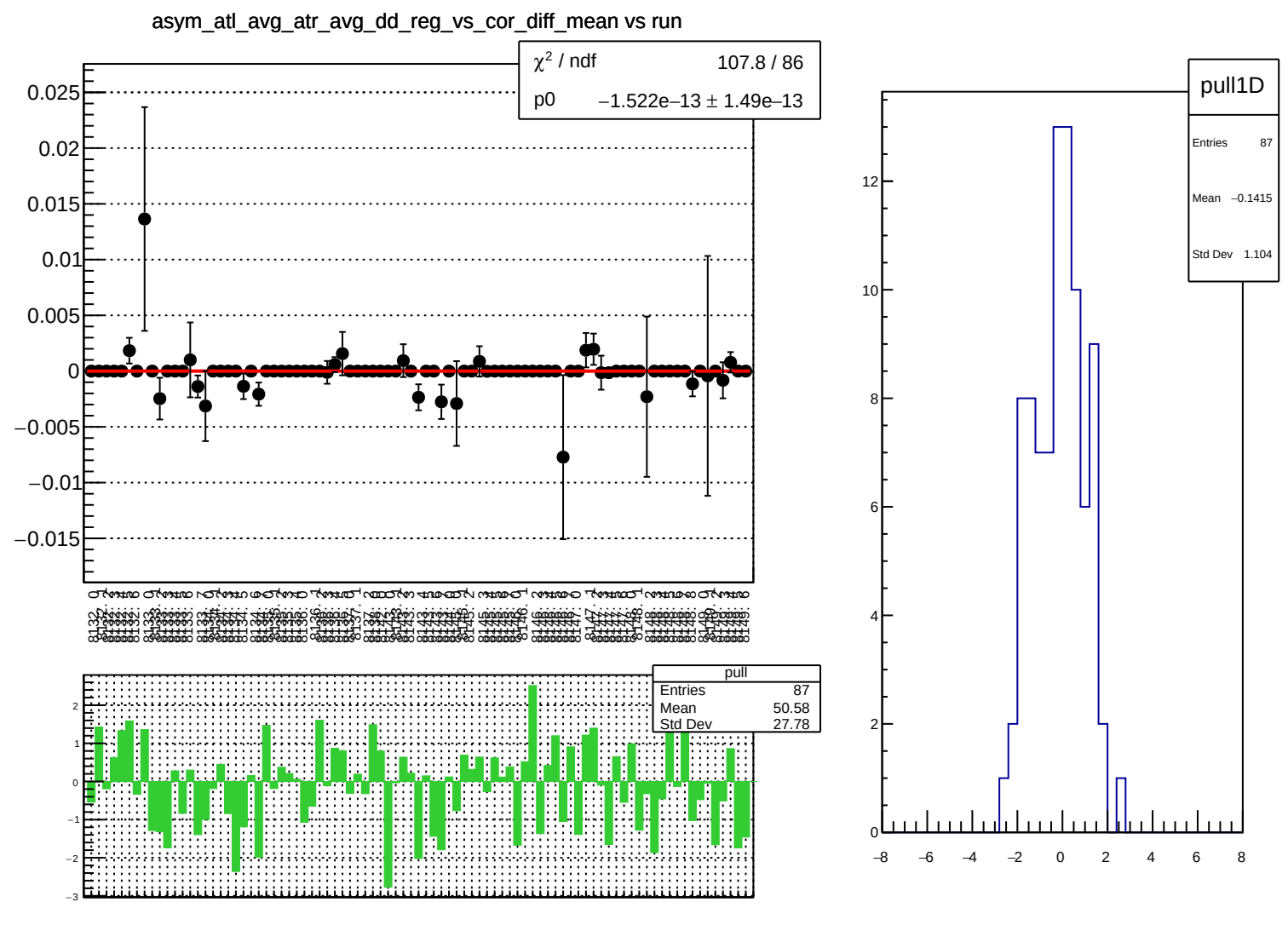

asym_atl_avg_atr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 91.72 / 86
p0 −1015 ± 1518
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 1396
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

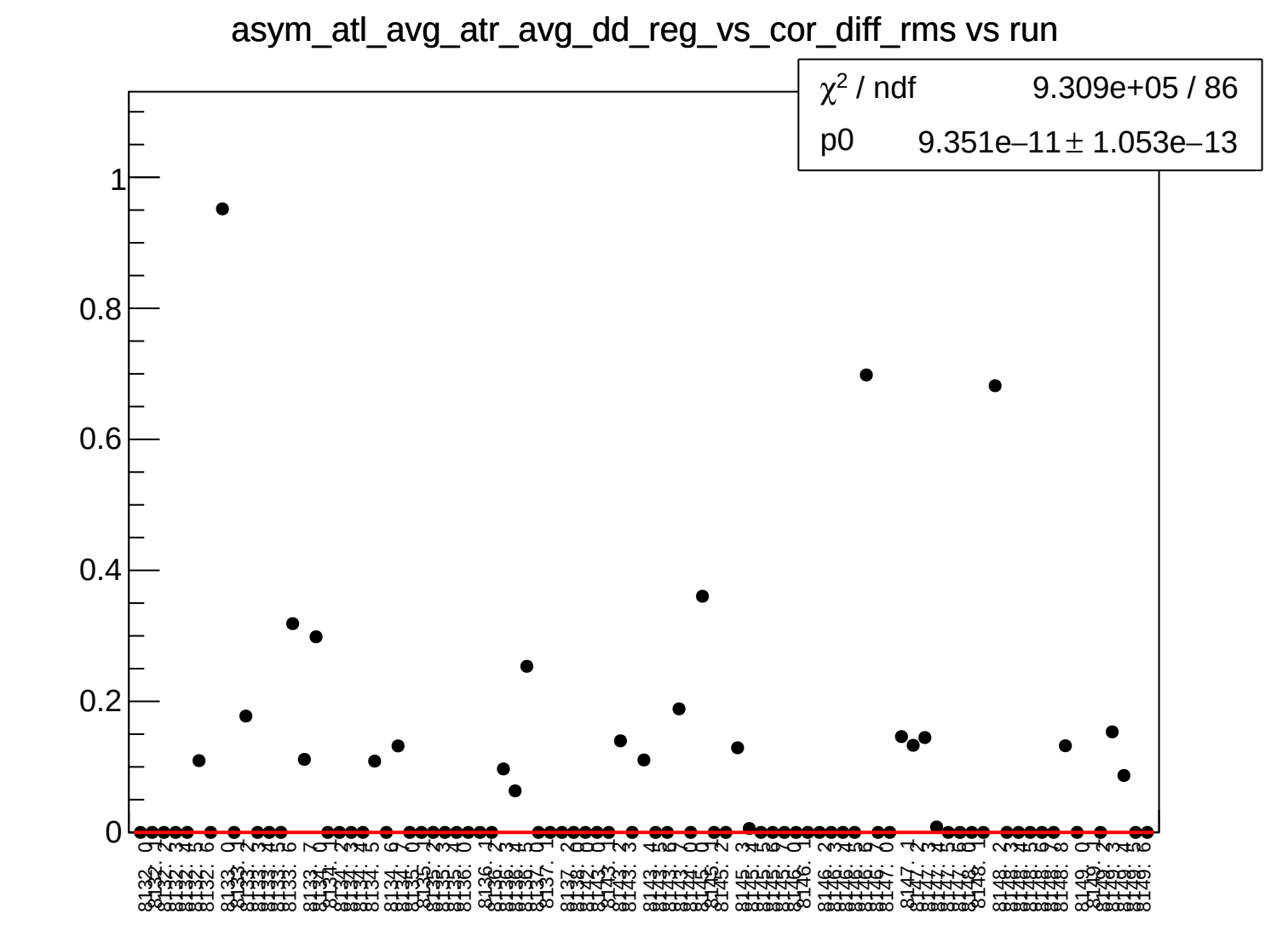

pull1D
Entries 87
Mean 0.002218
Std Dev 1.027
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

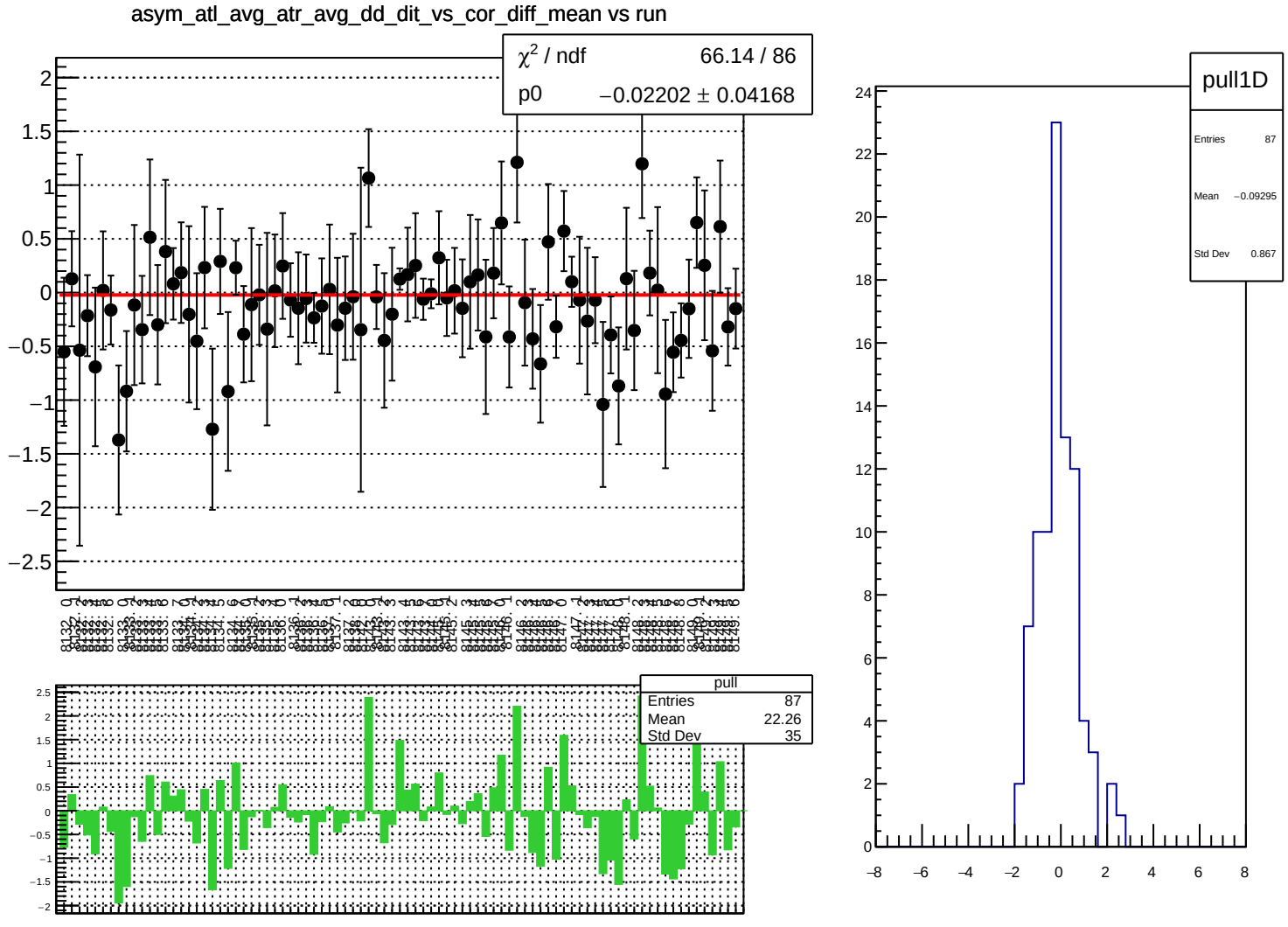

asym_atl_avg_atr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 7396 / 86
p0 1405 ± 1.074
2200
2000
1800
1600
1400
1200

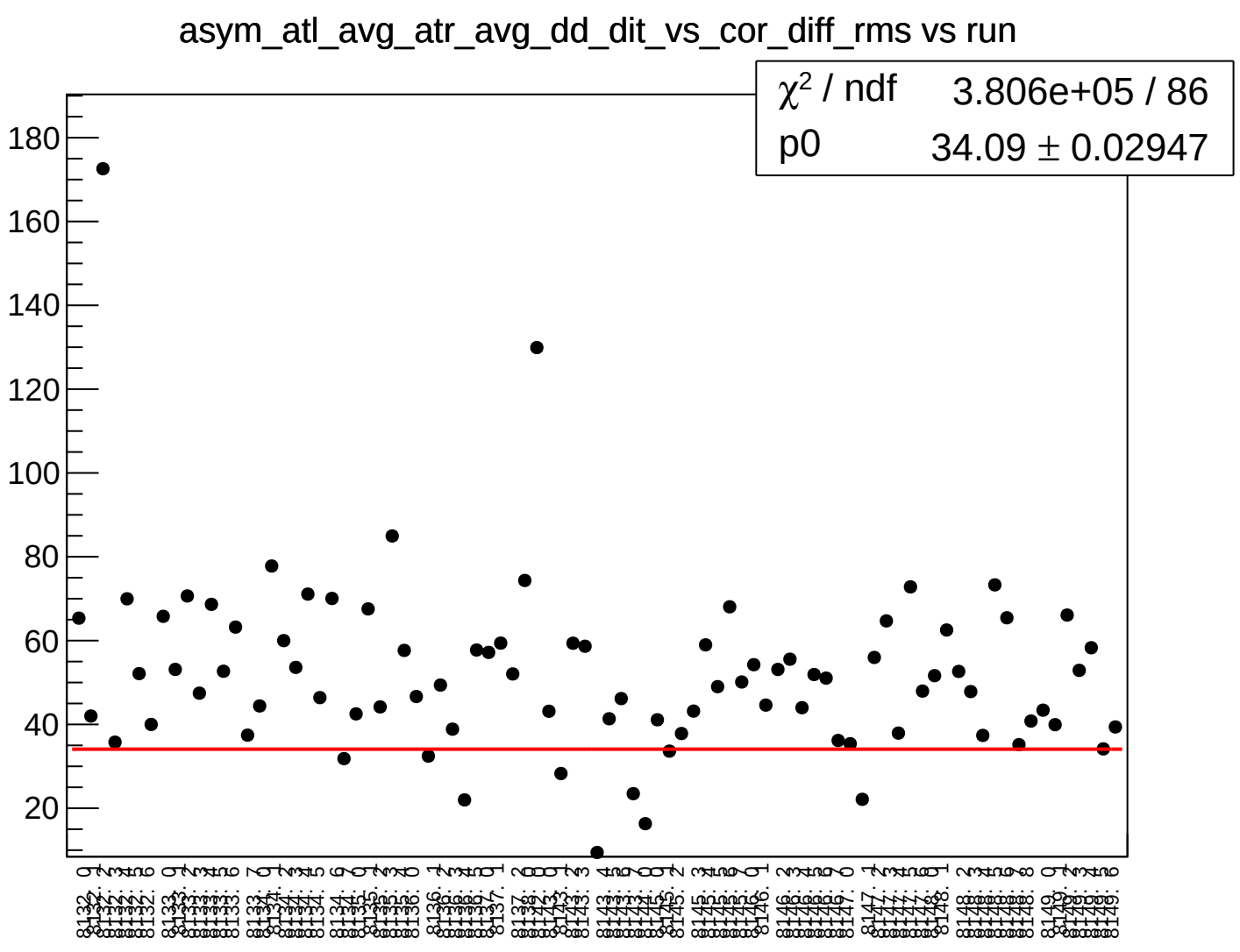

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 88.64 / 86
p0 1328 ± 2032
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 224.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.006422
Std Dev 1.009
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

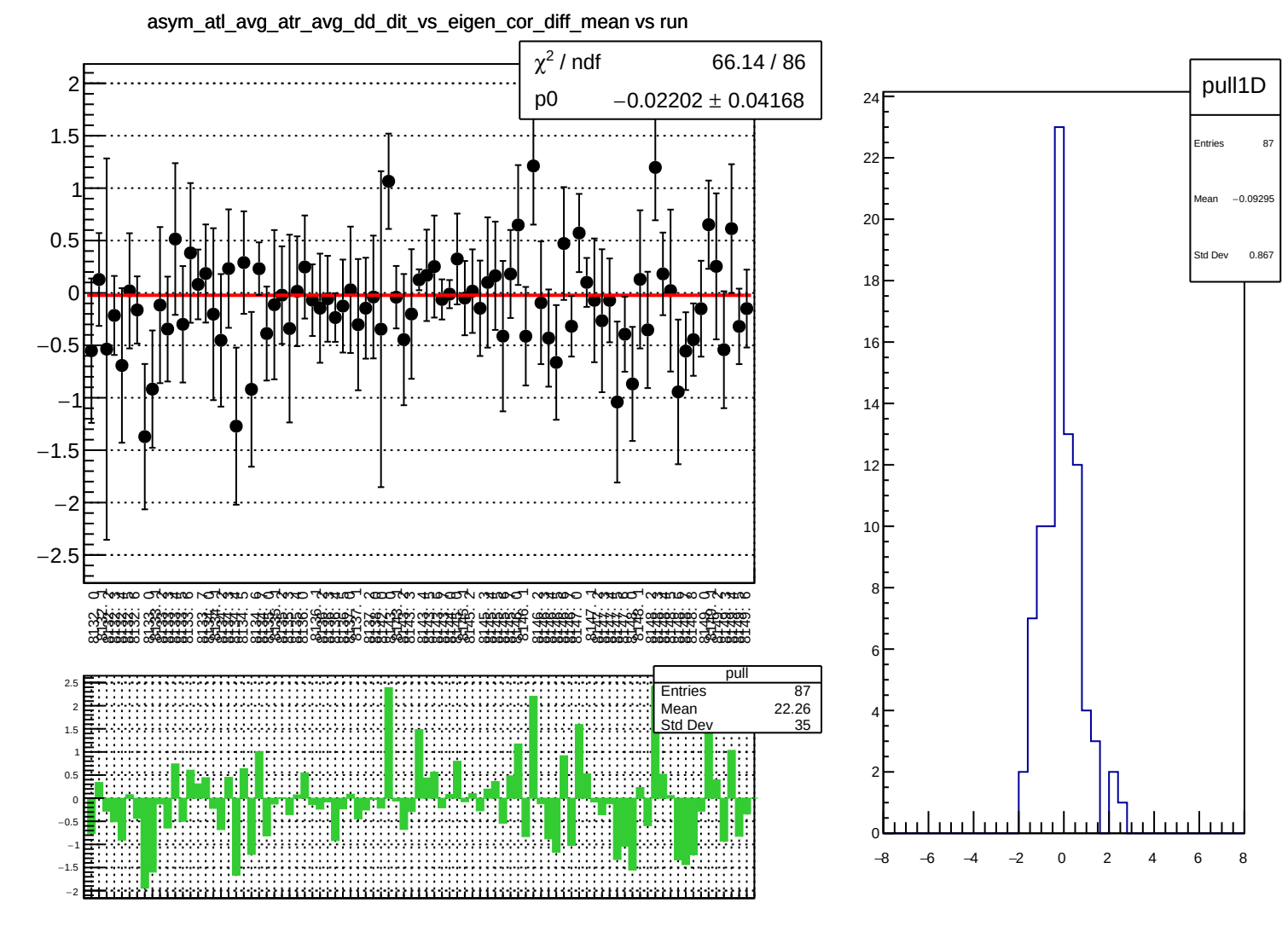

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 4580 / 86
p0 1882 ± 1.437
2400
2300
2200
2100
2000
1900
1800
1700

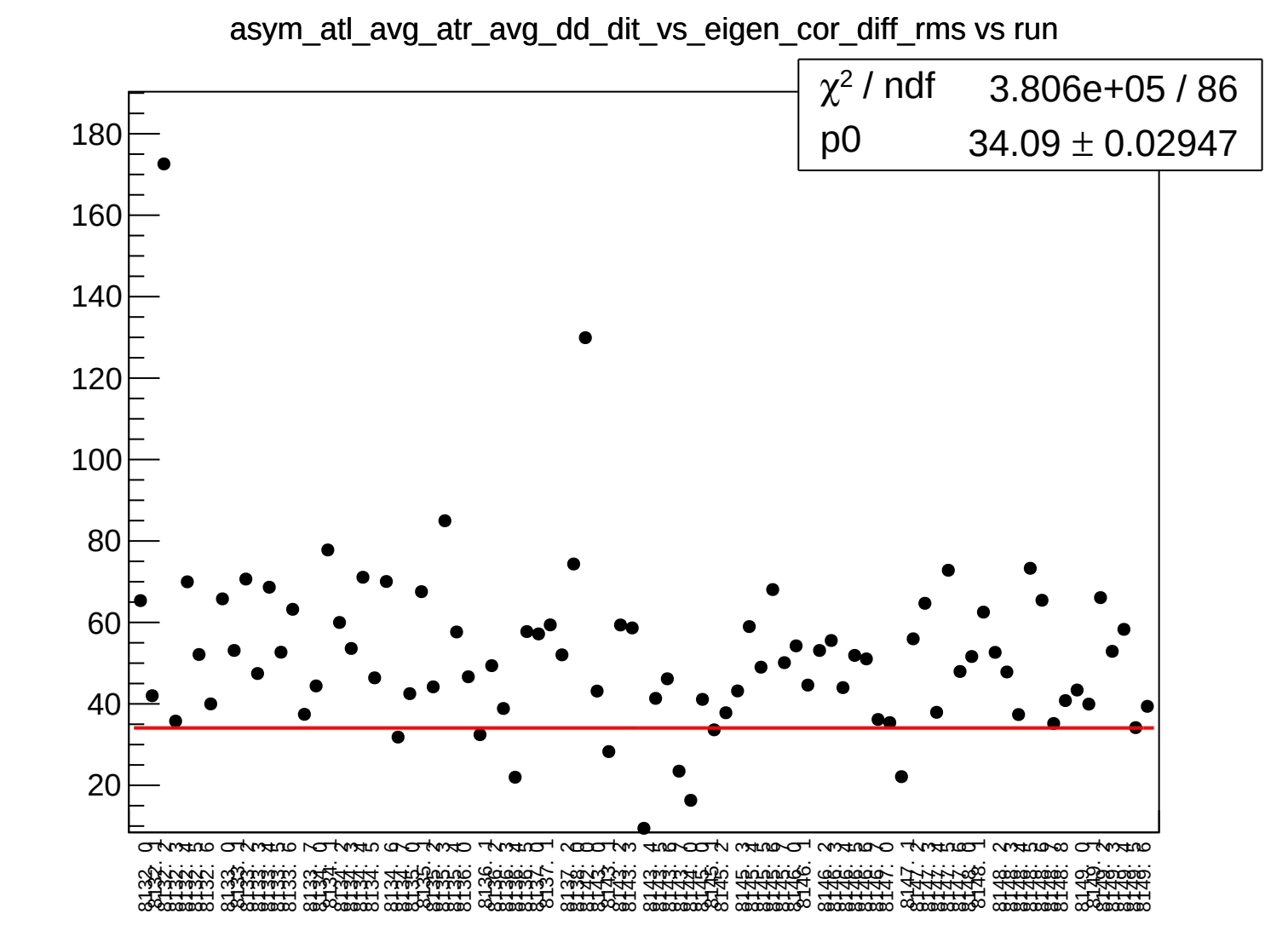

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 107.8 / 86
p0 −1.522e−13 ± 1.49e−13
pull
Entries 87
Mean 50.58
Std Dev 27.78
pull1D
Entries 87
Mean −0.1415
Std Dev 1.104

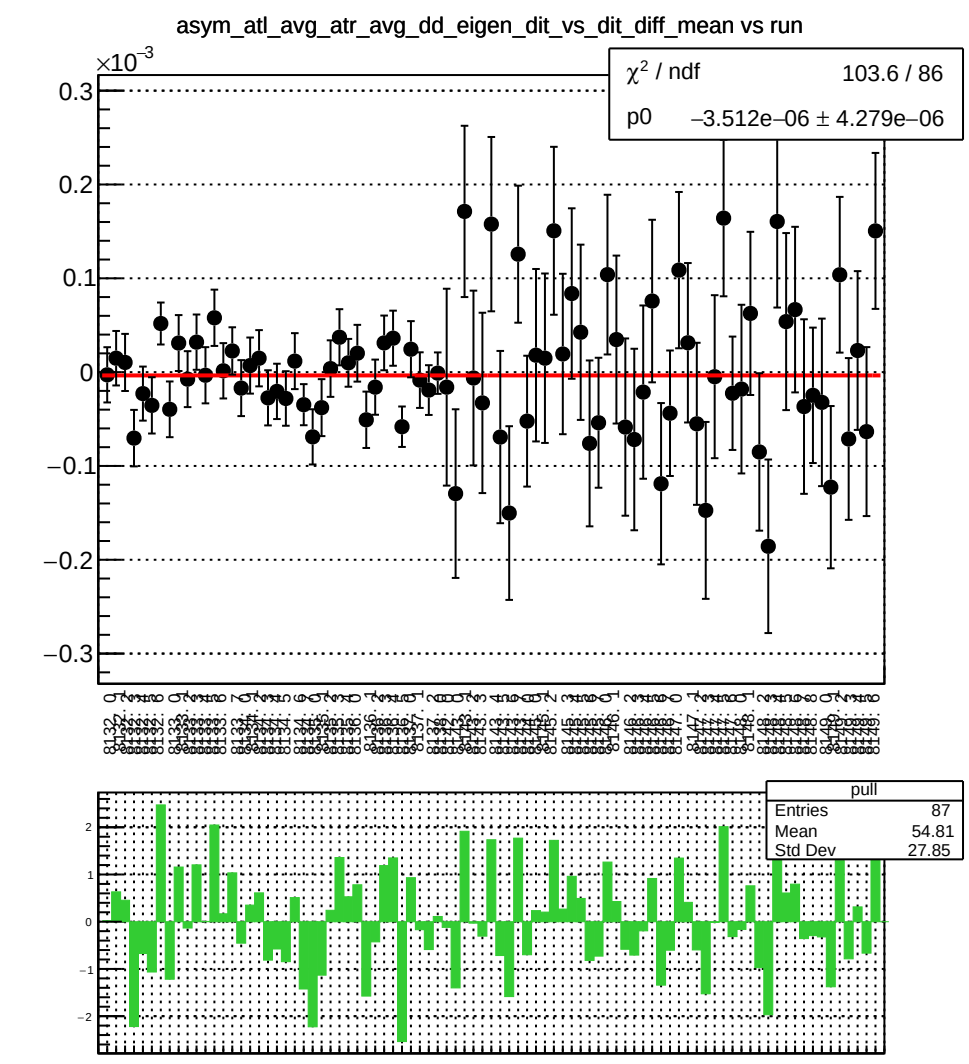

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.309e+05 / 86
p0 9.351e−11 ± 1.053e−13
1
0.8
0.6
0.4
0.2
0

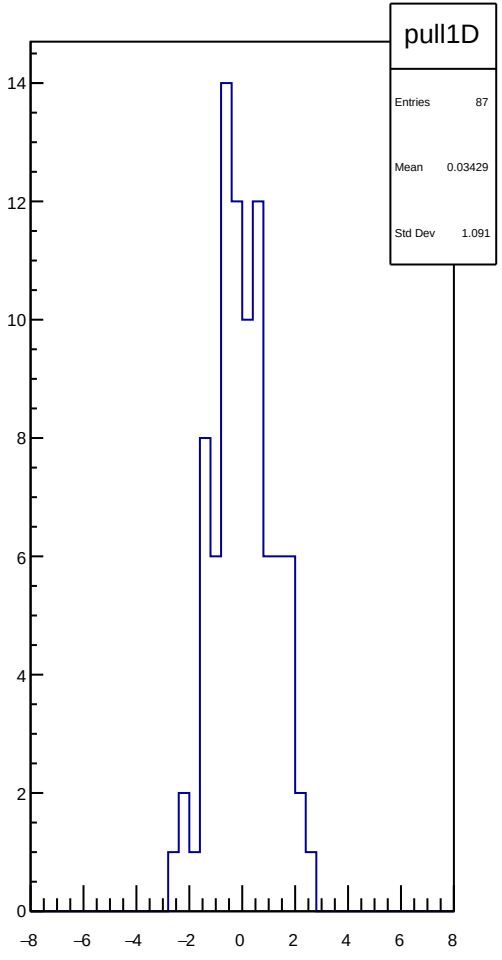

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 66.14 / 86
p0 −0.02202 ± 0.04168
pull
Entries 87
Mean 22.26
Std Dev 35
pull1D
Entries 87
Mean −0.09295
Std Dev 0.867

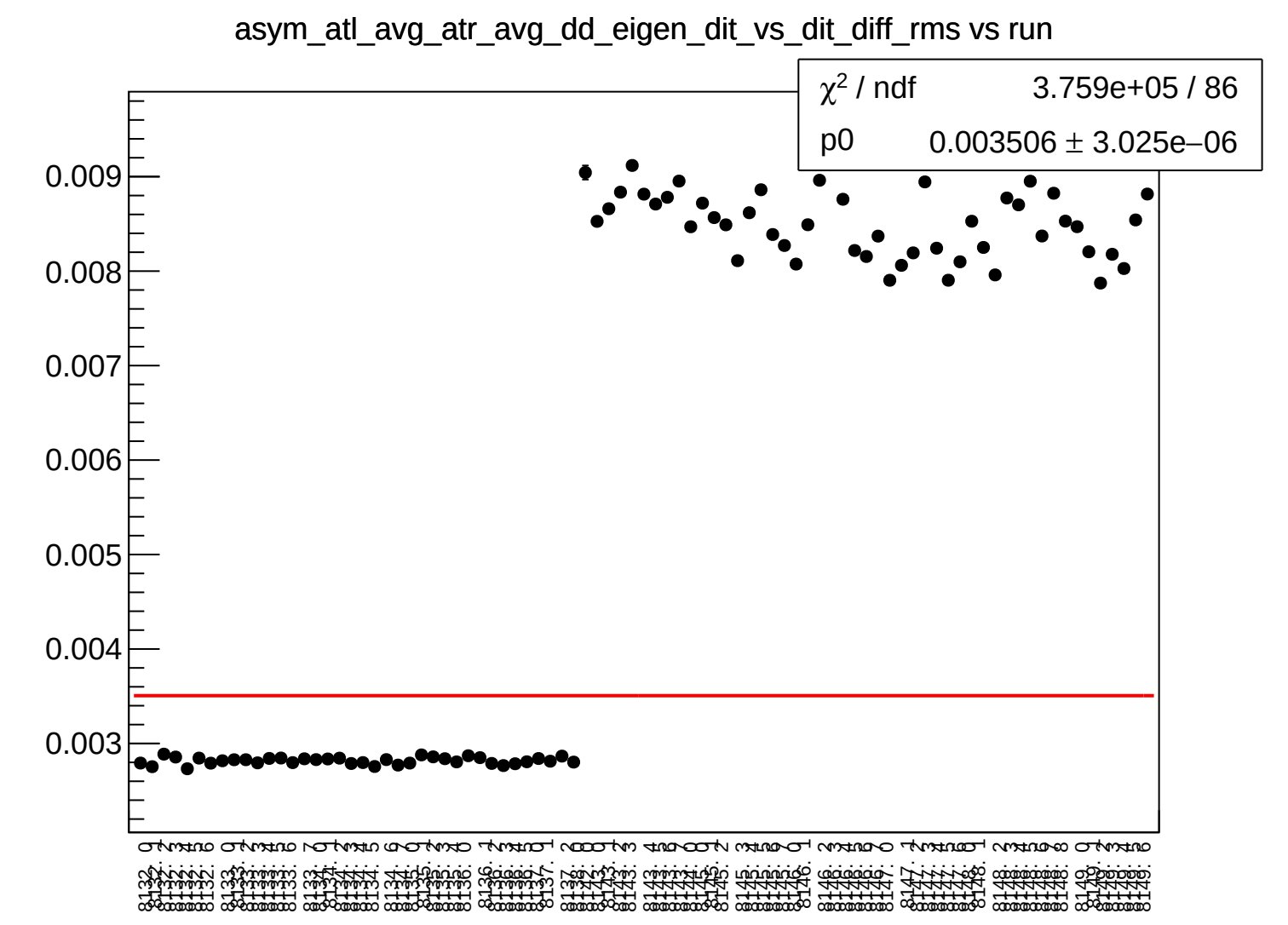

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.806e+05 / 86
p0 34.09 ± 0.02947
180
160
140
120
100
80
60
40
20

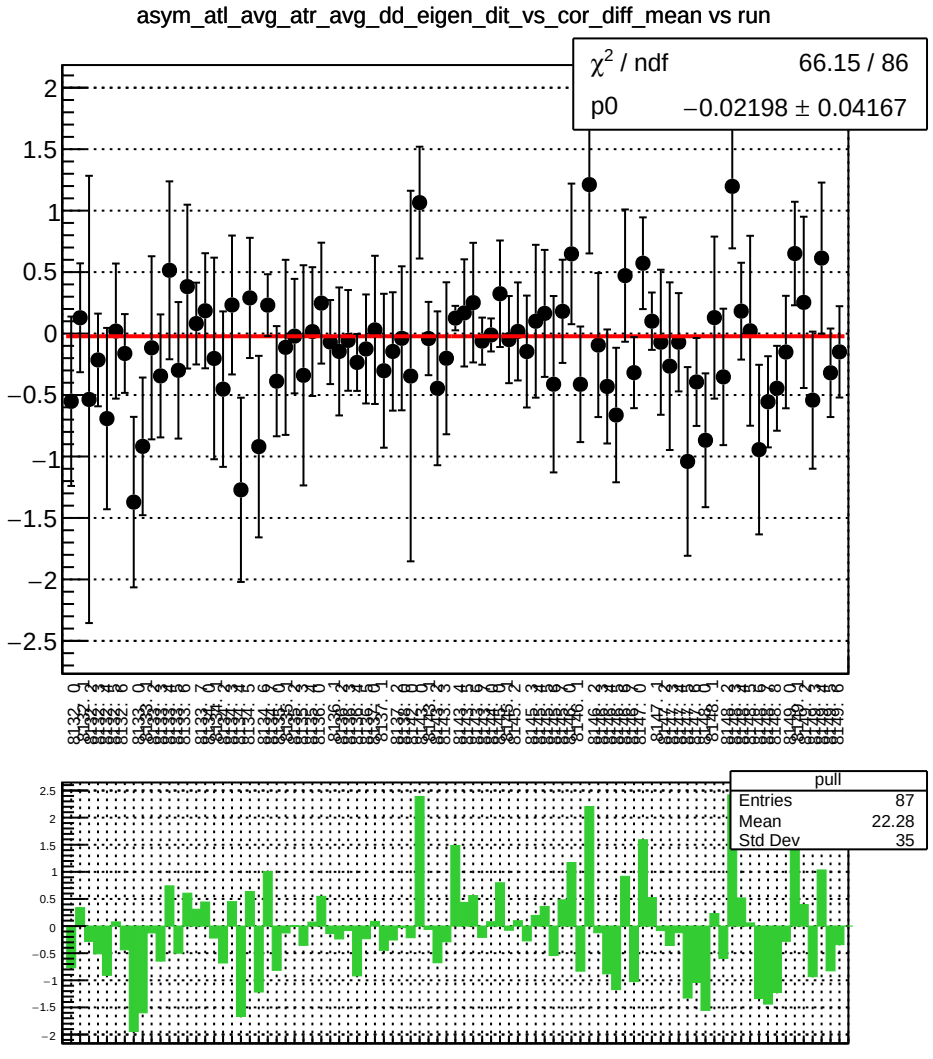

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.14 / 86
p0 −0.02202 ± 0.04168
pull
Entries 87
Mean 22.26
Std Dev 35
pull1D
Entries 87
Mean −0.09295
Std Dev 0.867

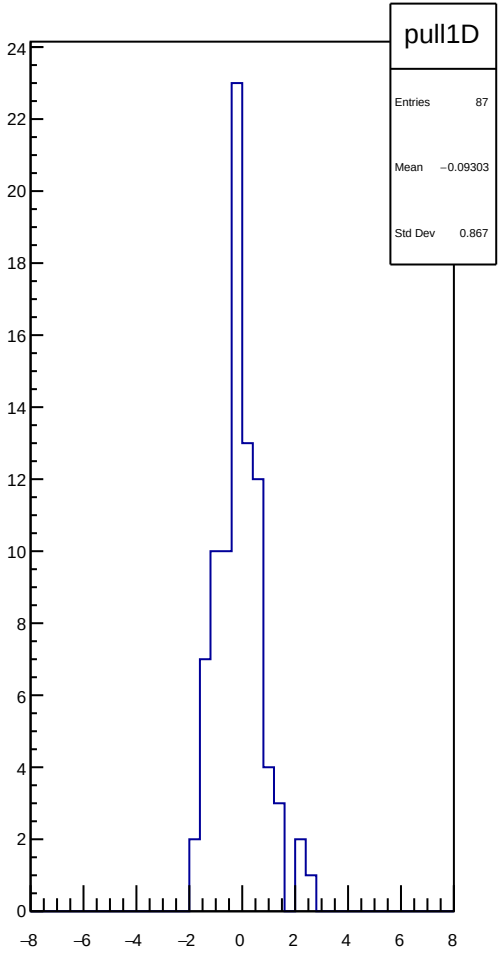

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.806e+05 / 86
p0 34.09 ± 0.02947
180
160
140
120
100
80
60
40
20

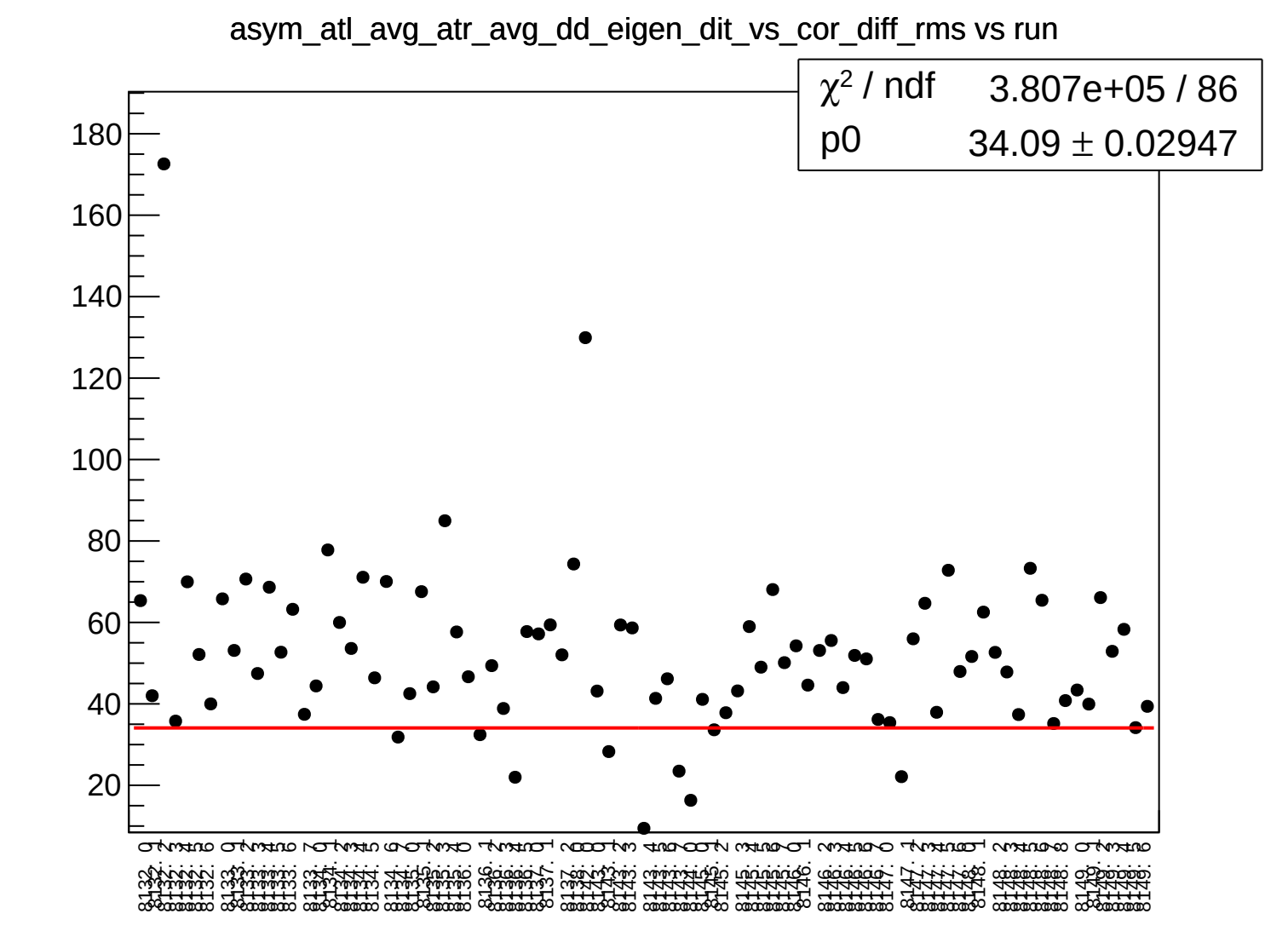

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 103.6 / 86
p0 −3.512e−06 ± 4.279e−06
pull
Entries 87
Mean 54.81
Std Dev 27.85

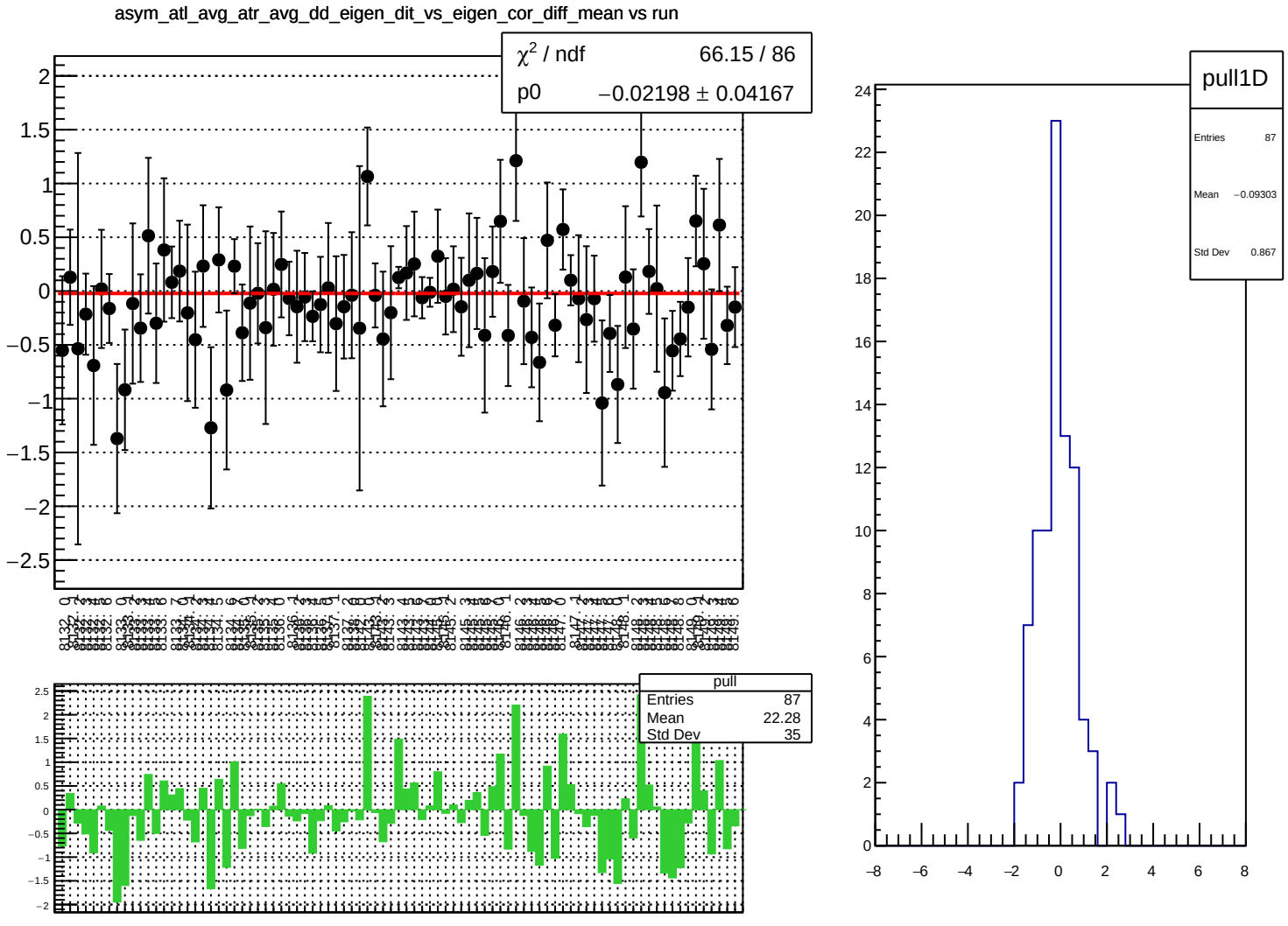

pull1D
Entries 87
Mean 0.03429
Std Dev 1.091

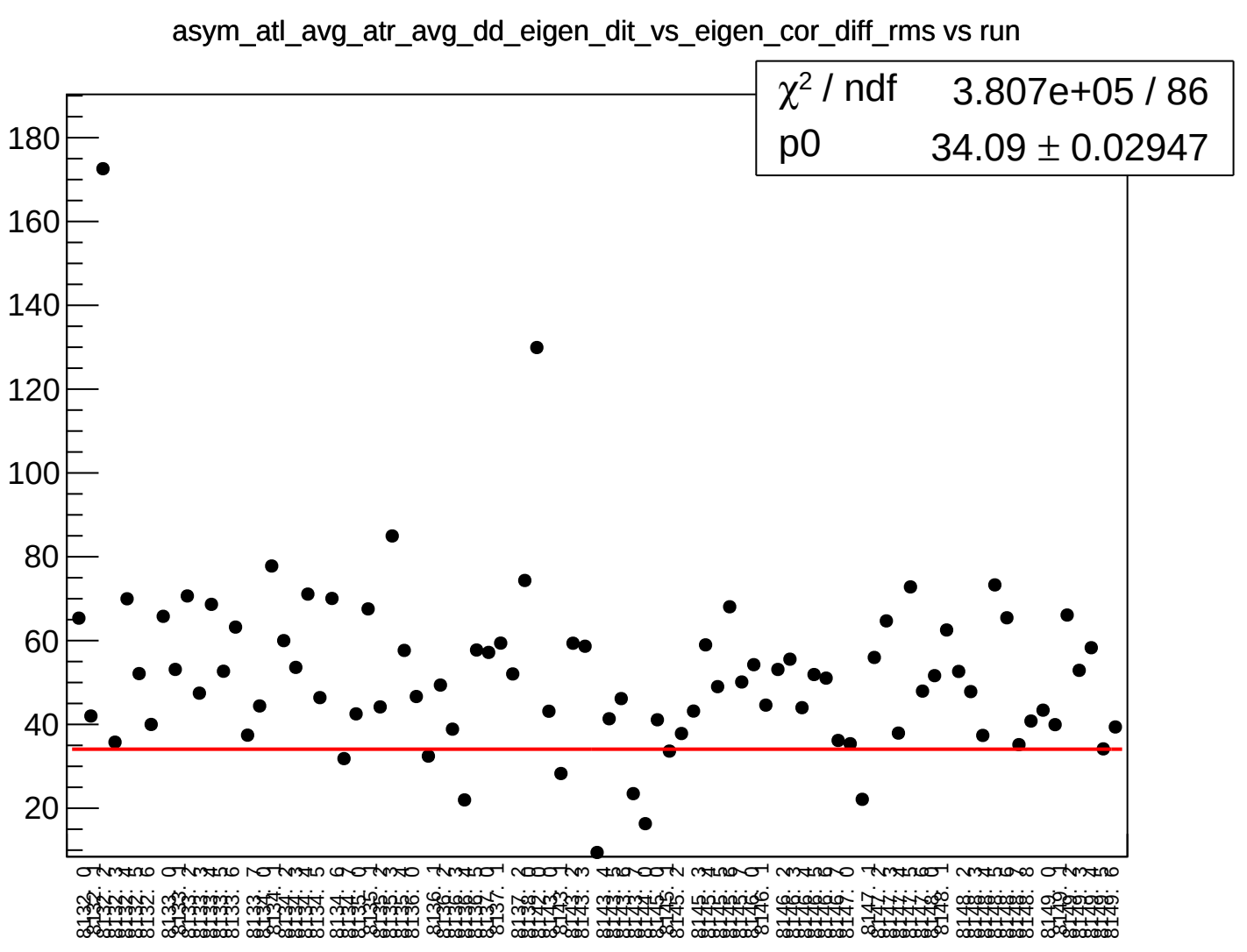

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.759e+05 / 86
p0 0.003506 ± 3.025e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003

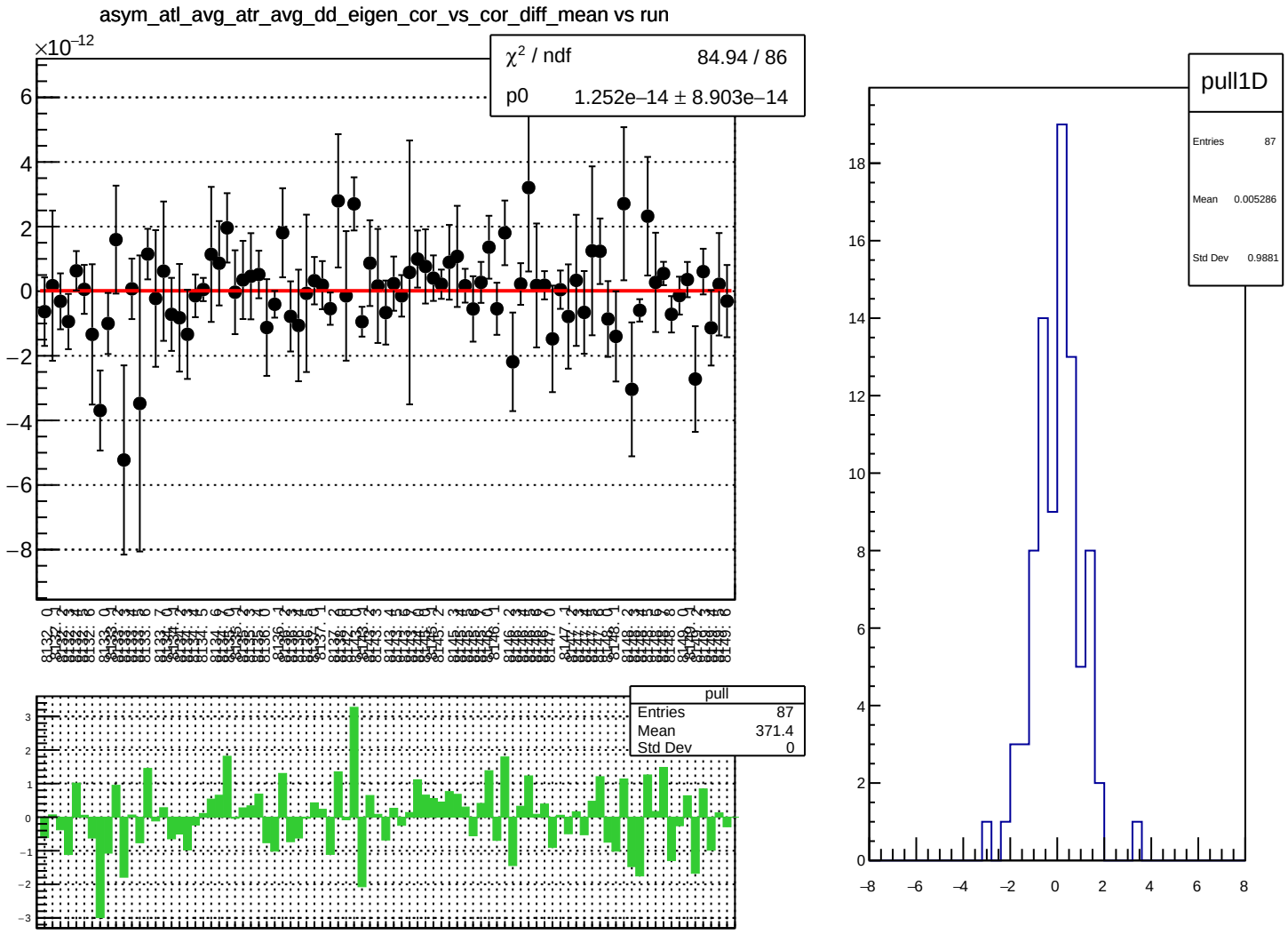

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 66.15 / 86
p0 −0.02198 ± 0.04167
pull
Entries 87
Mean 22.28
Std Dev 35

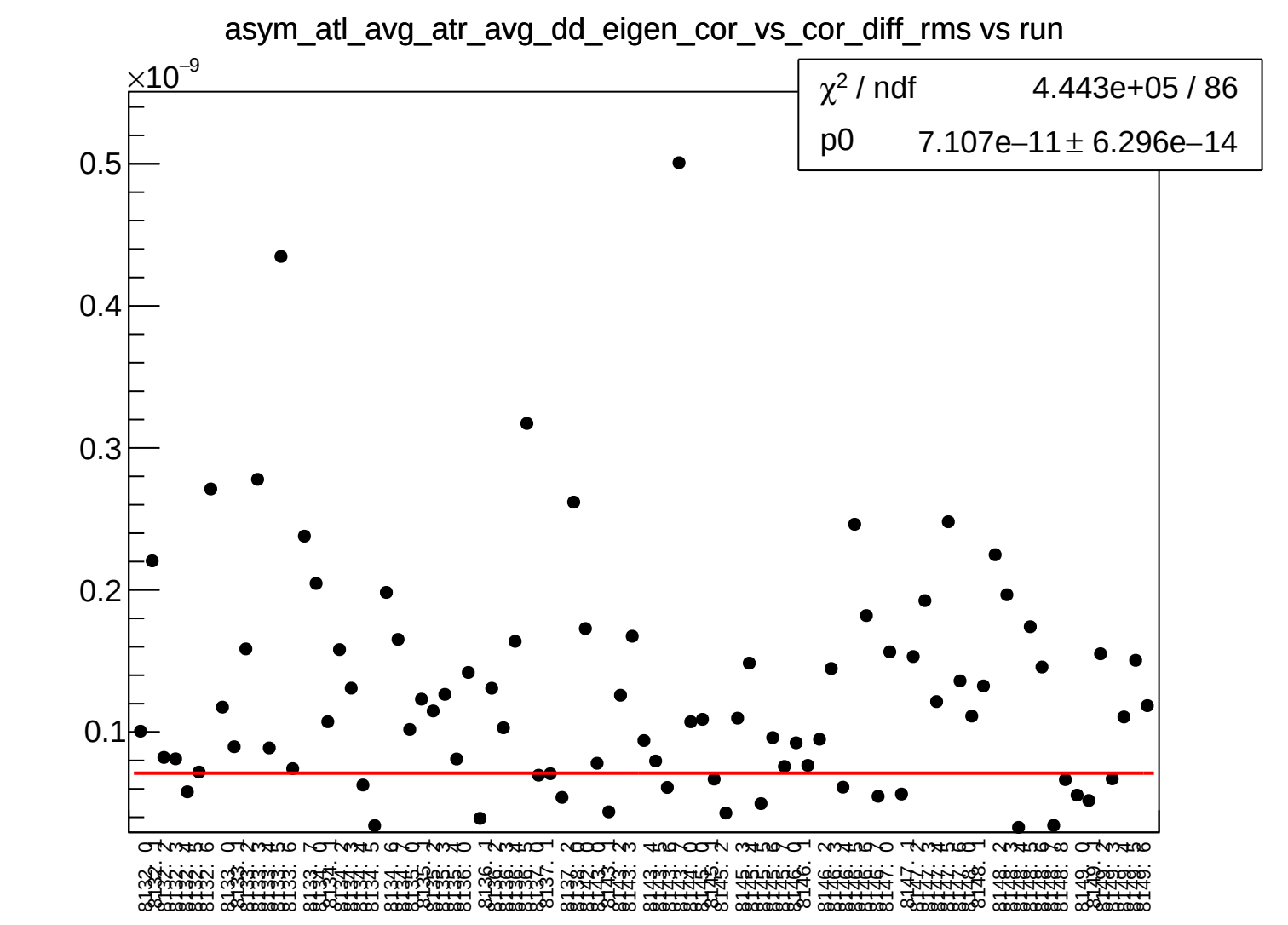

pull1D
Entries 87
Mean −0.09303
Std Dev 0.867

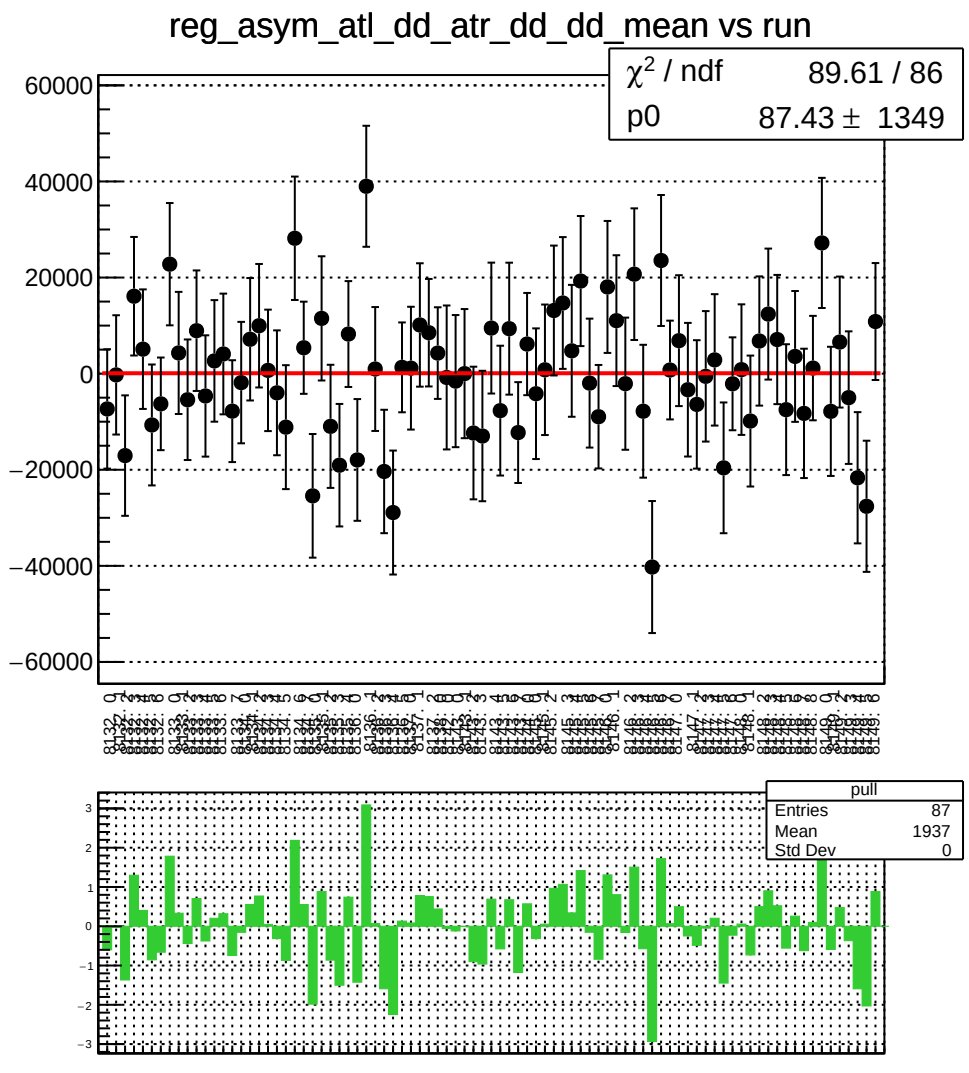

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.807e+05 / 86
p0 34.09 ± 0.02947
180
160
140
120
100
80
60
40
20

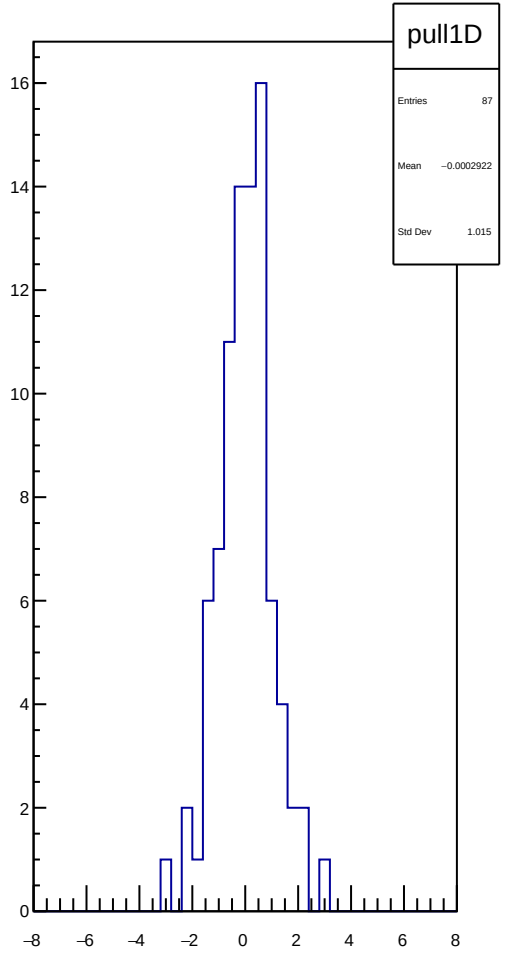

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.15 / 86
p0 −0.02198 ± 0.04167
pull
Entries 87
Mean 22.28
Std Dev 35
pull1D
Entries 87
Mean −0.09303
Std Dev 0.867

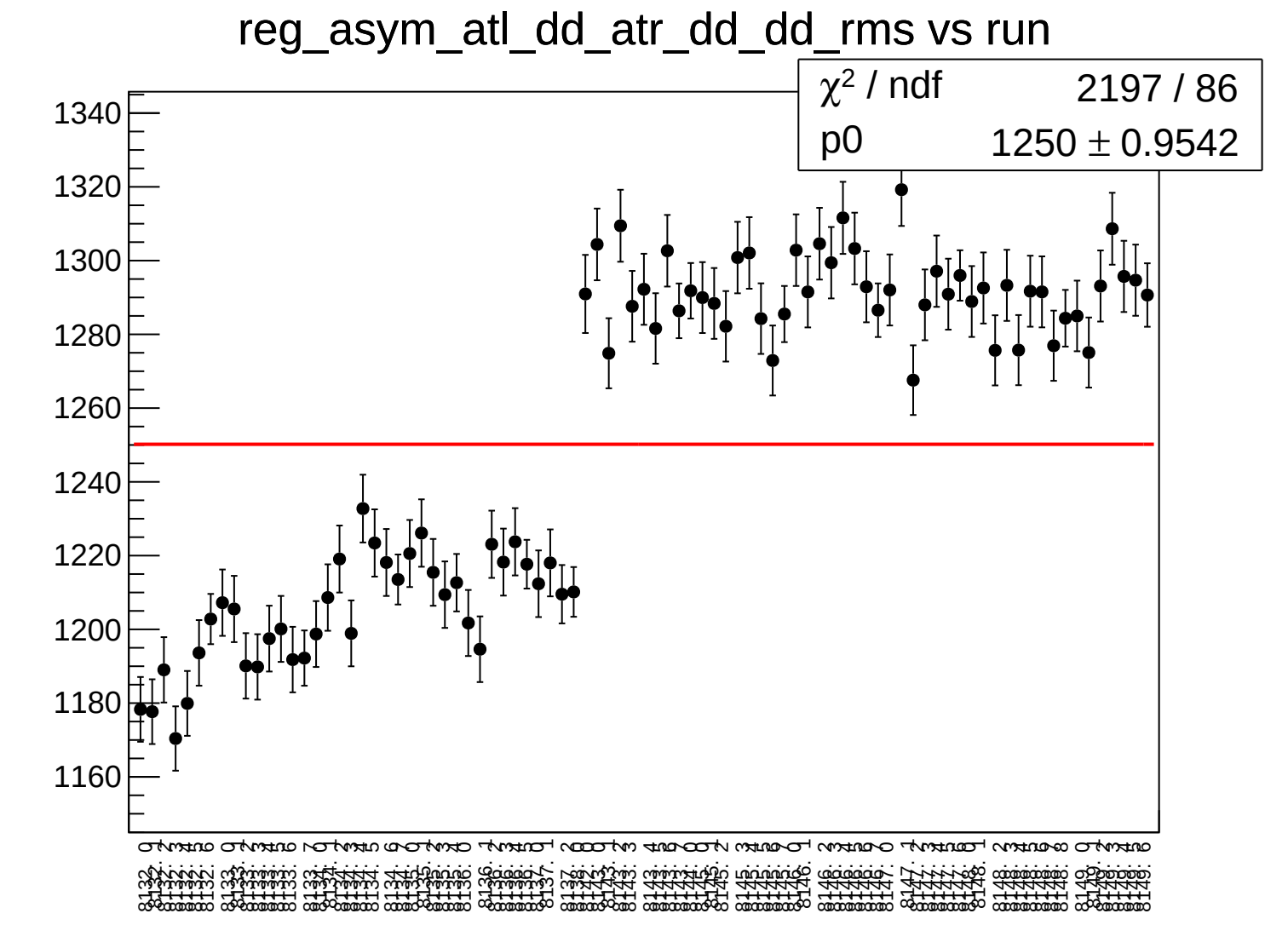

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.807e+05 / 86
p0 34.09 ± 0.02947
180
160
140
120
100
80
60
40
20

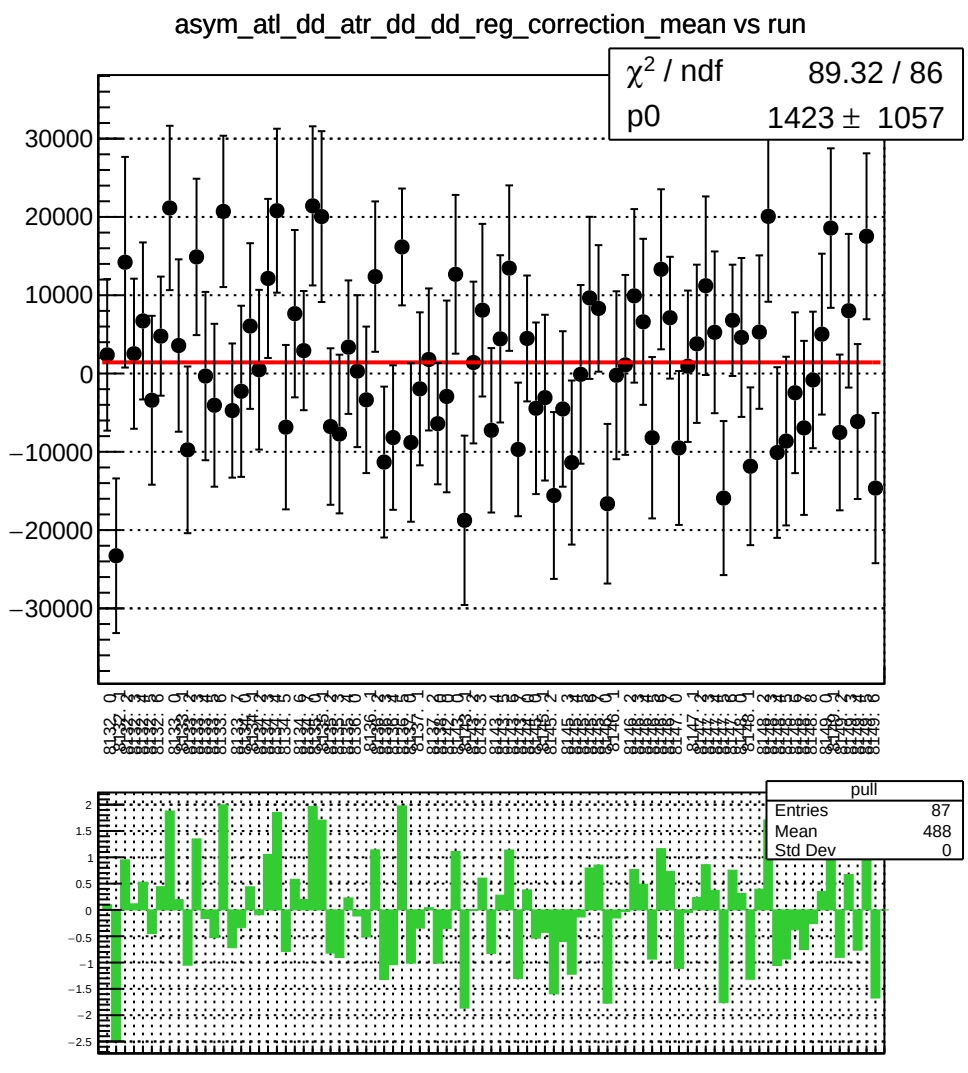

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.94 / 86
p0 1.252e−14 ± 8.903e−14
pull
Entries 87
Mean 371.4
Std Dev 0
pull1D
Entries 87
Mean 0.005286
Std Dev 0.9881

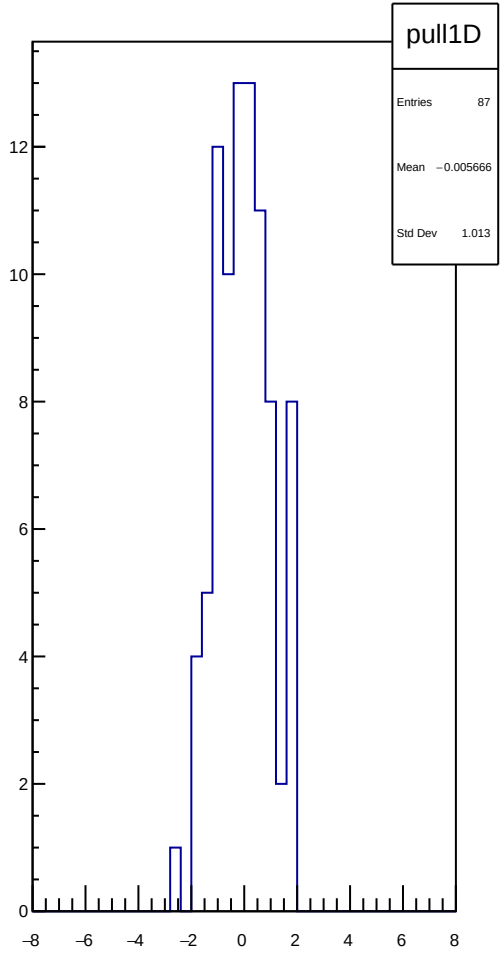

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.443e+05 / 86
p0 7.107e−11 ± 6.296e−14
0.5
0.4
0.3
0.2
0.1

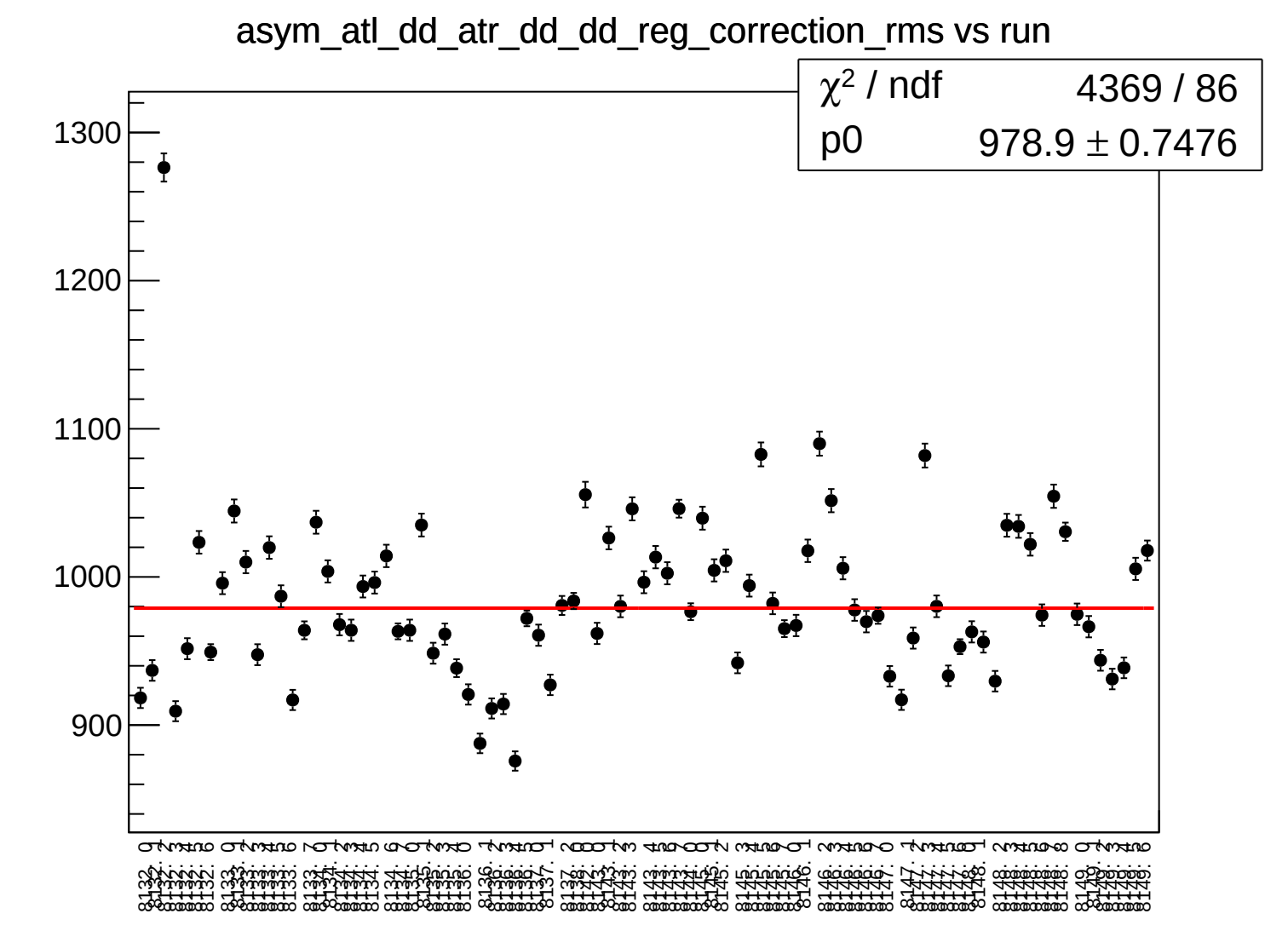

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 89.61 / 86
p0 87.43 ± 1349
pull
Entries 87
Mean 1937
Std Dev 0

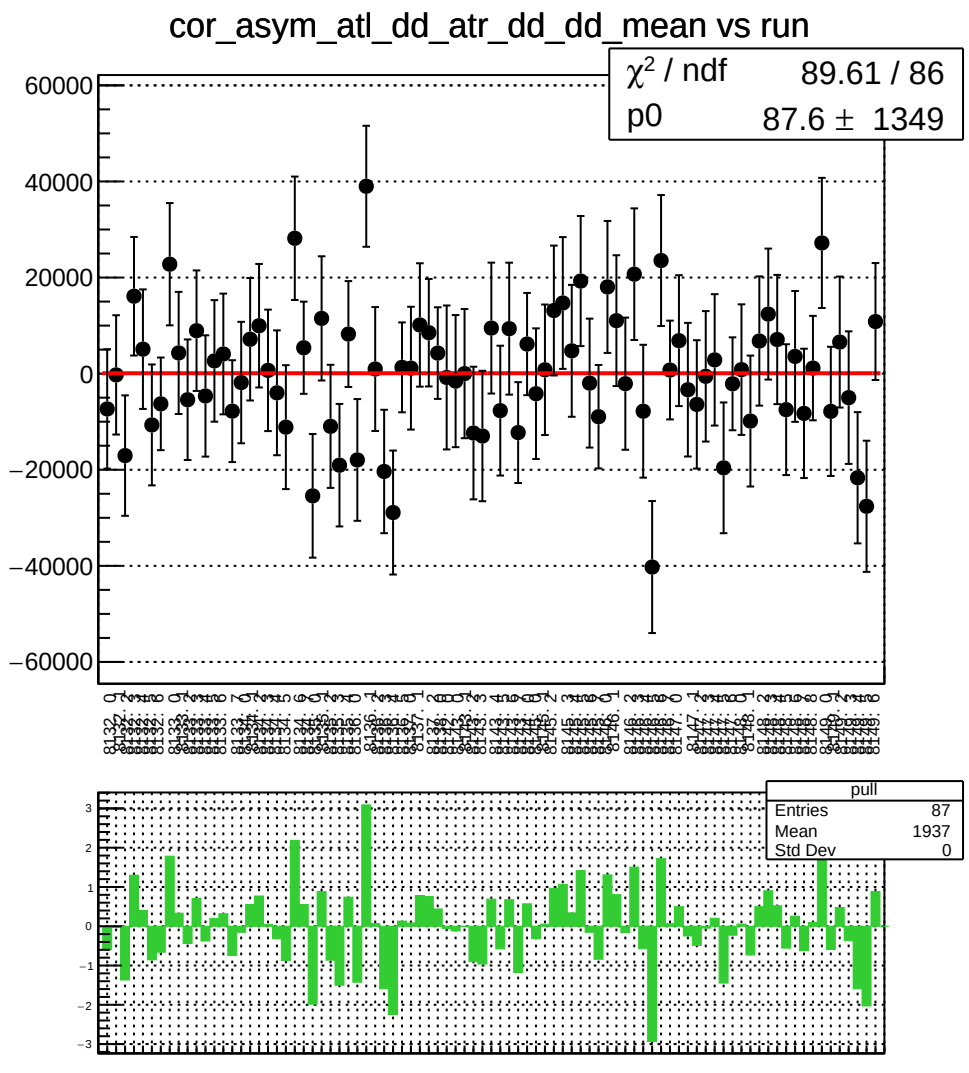

pull1D
Entries 87
Mean −0.0002922
Std Dev 1.015

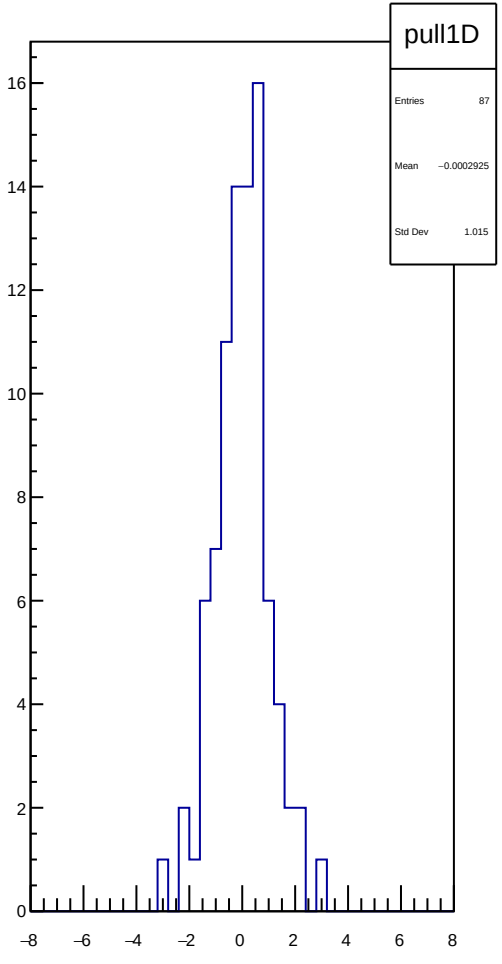

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 2197 / 86
p0 1250 ± 0.9542
1340
1320
1300
1280
1260
1240
1220
1200
1180
1160

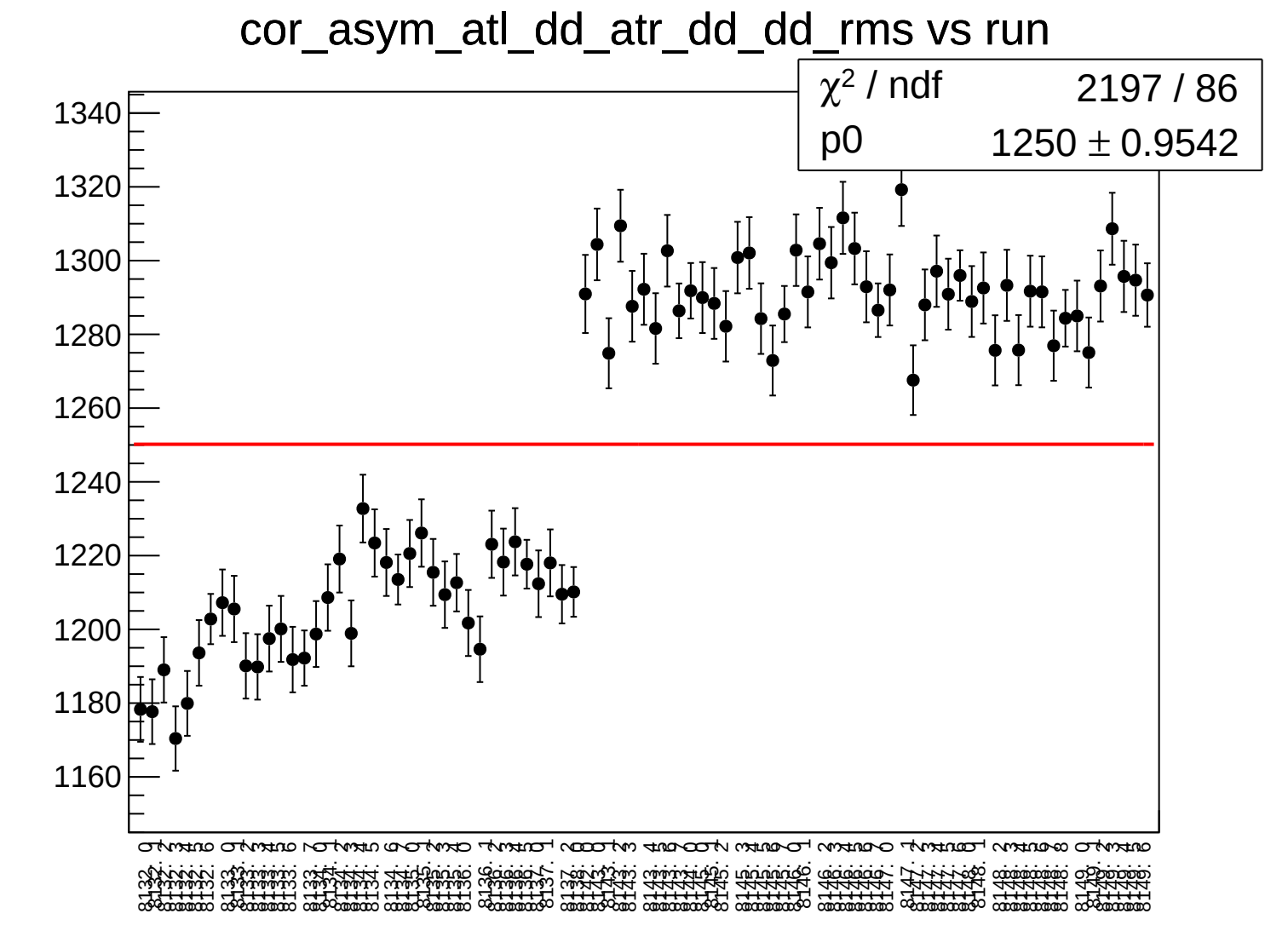

asym_atl_dd_atr_dd_dd_reg_correction_mean vs run
χ² / ndf 89.32 / 86
p0 1423 ± 1057
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean 488
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

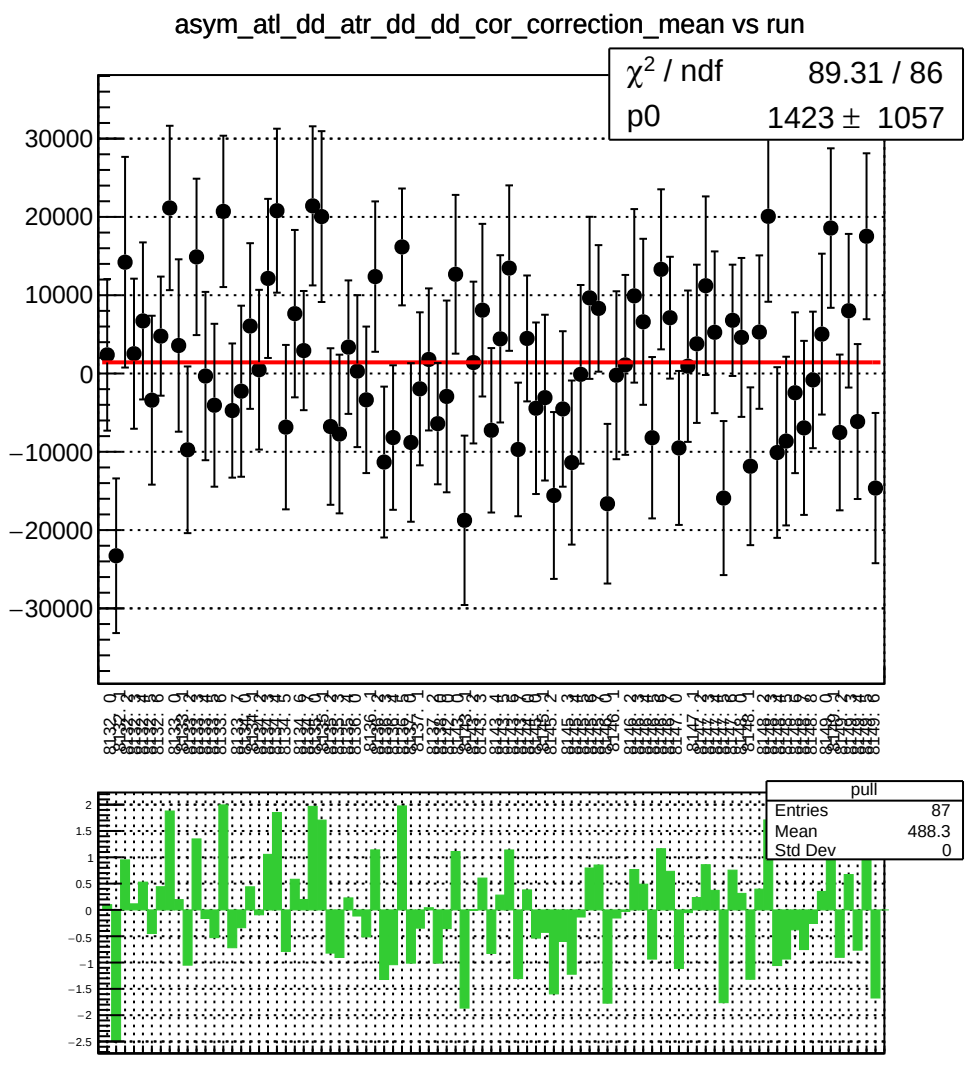

pull1D
Entries 87
Mean −0.005666
Std Dev 1.013
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

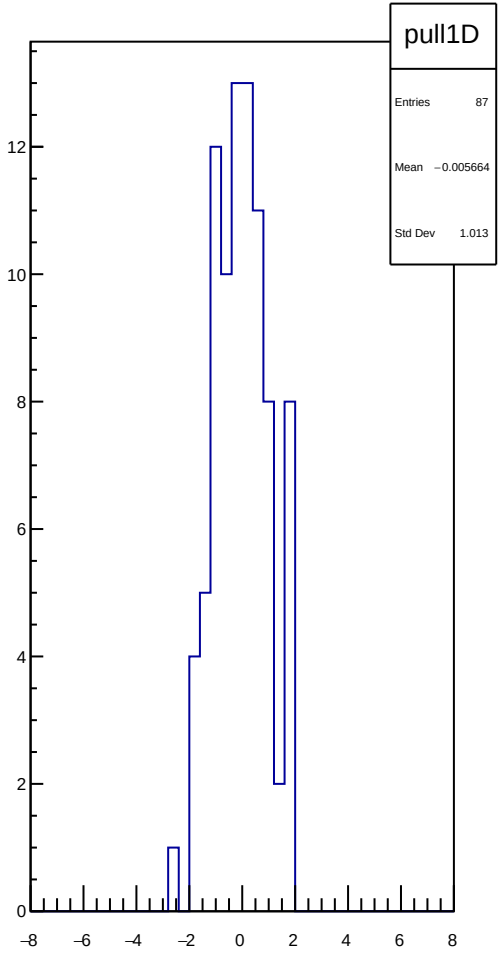

asym_atl_dd_atr_dd_dd_reg_correction_rms vs run
χ² / ndf 4369 / 86
p0 978.9 ± 0.7476
1300
1200
1100
1000
900

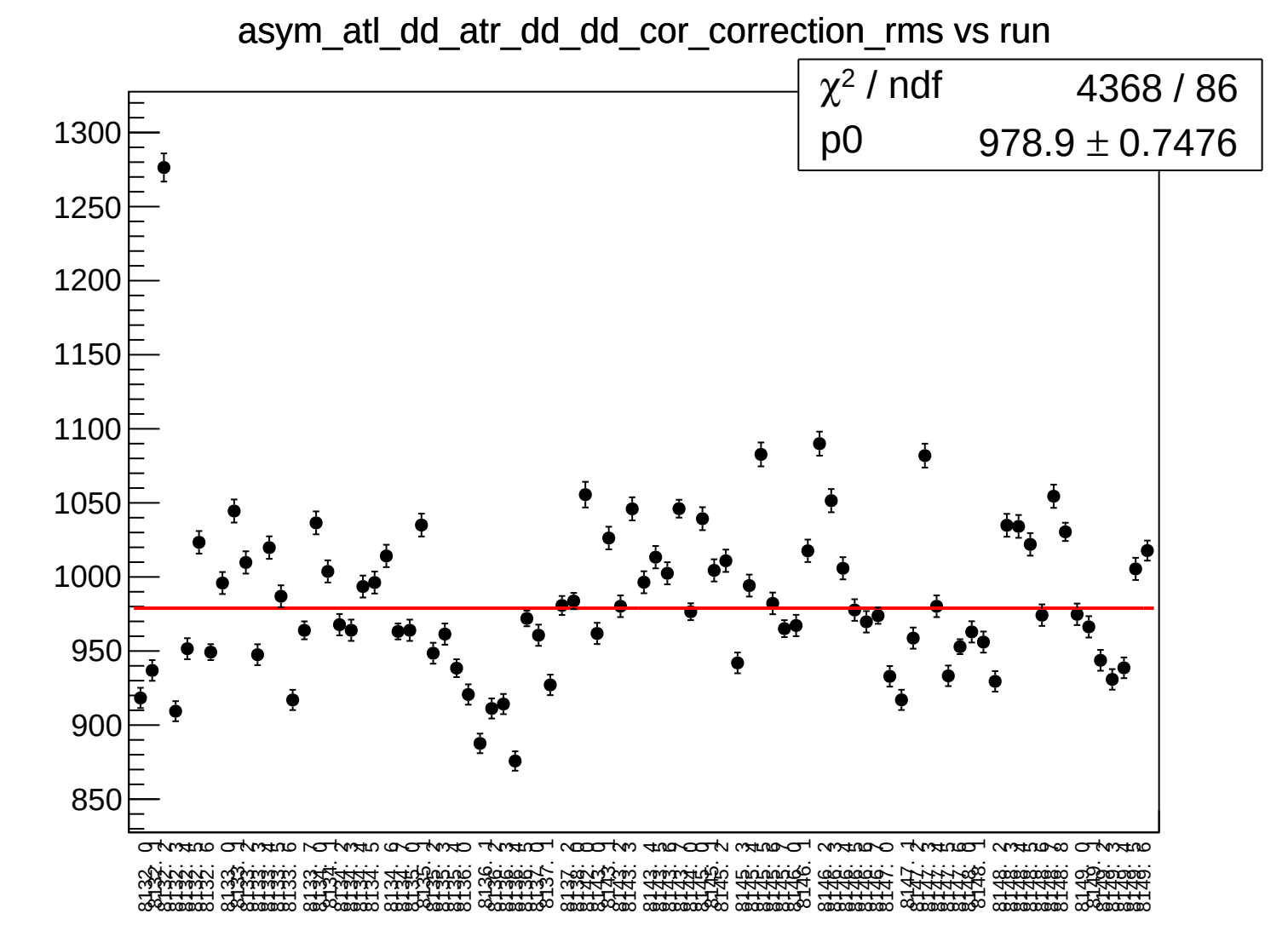

cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 89.61 / 86
p0 87.6 ± 1349
pull
Entries 87
Mean 1937
Std Dev 0

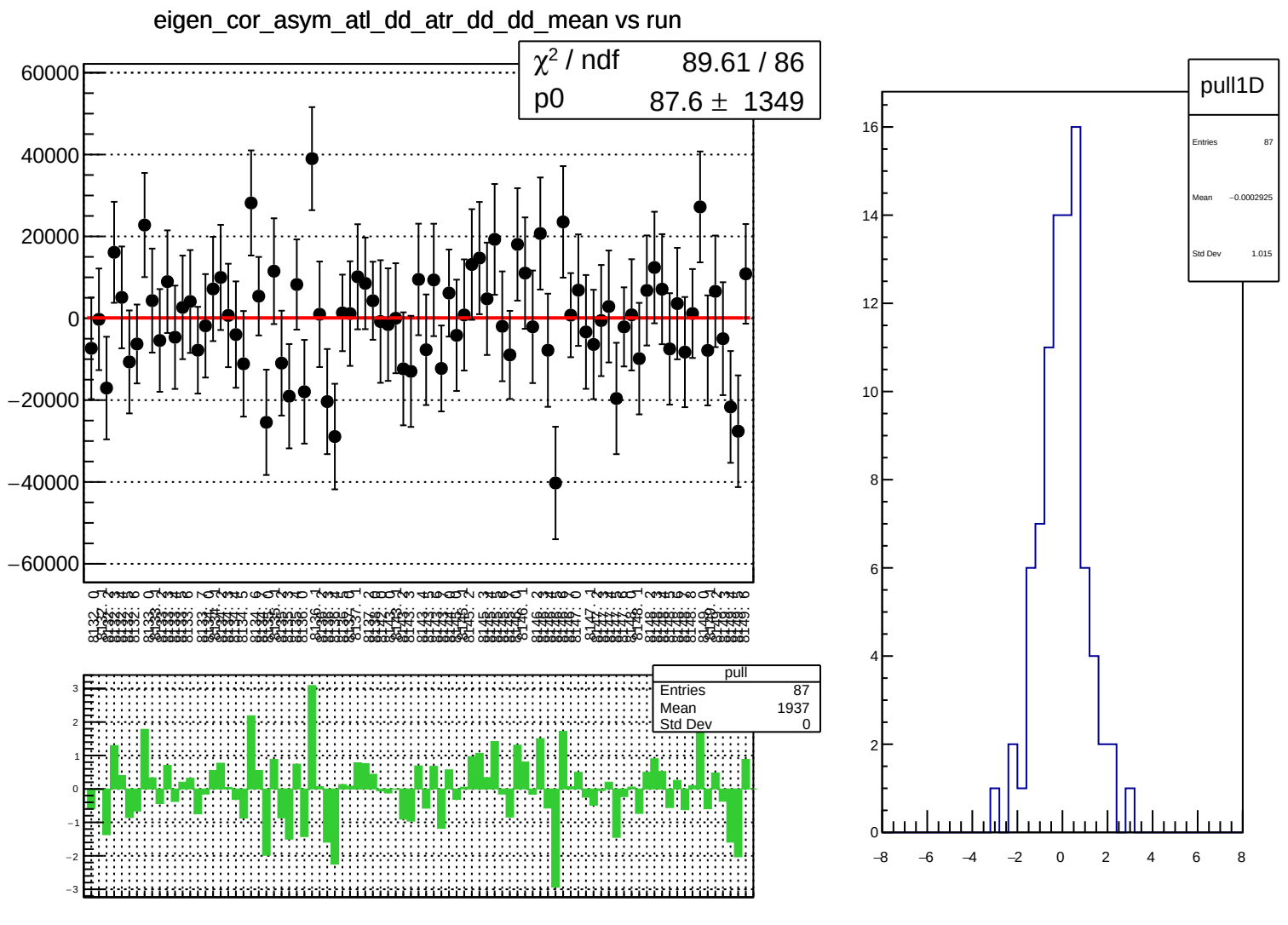

pull1D
Entries 87
Mean −0.0002925
Std Dev 1.015

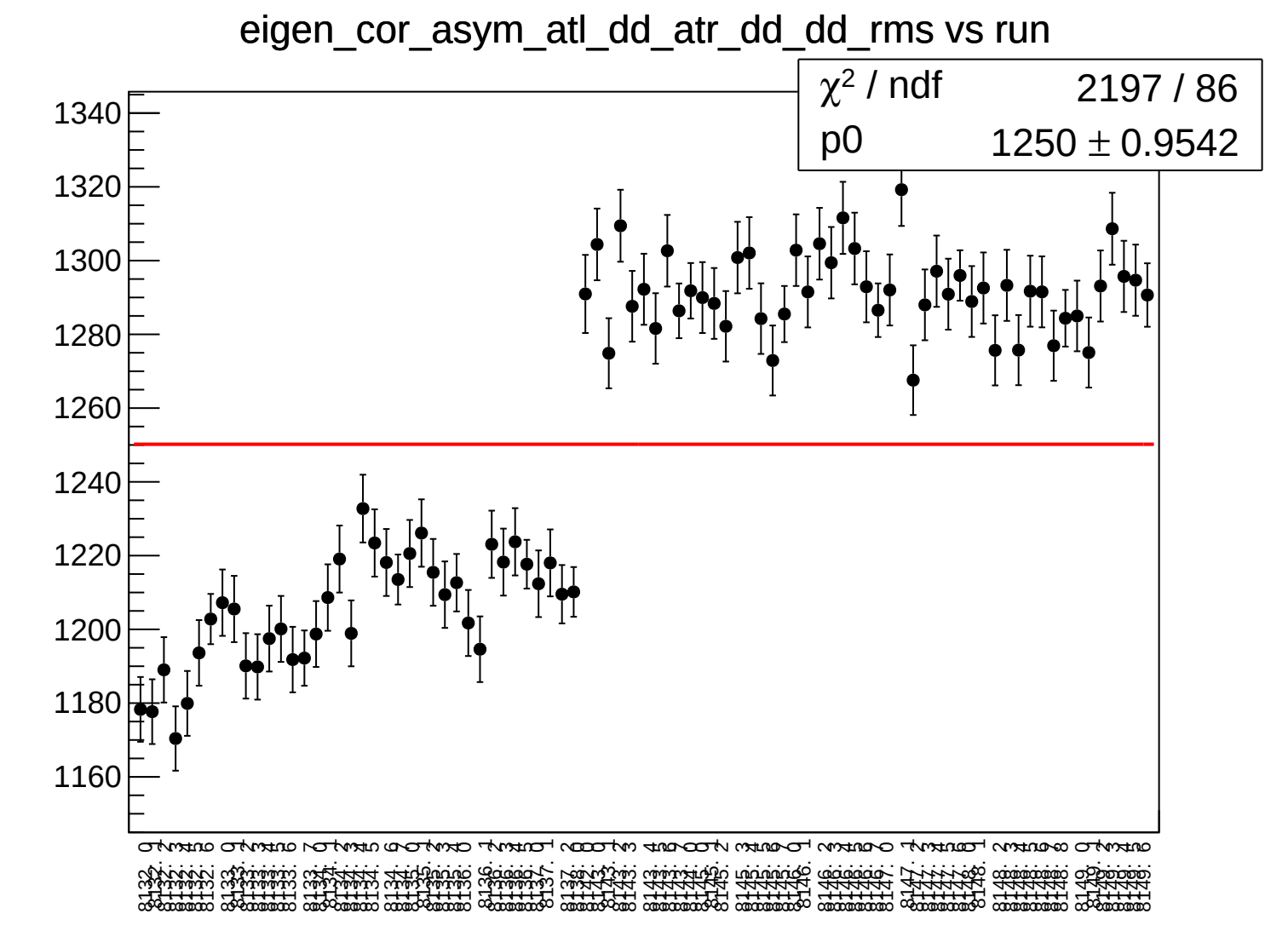

cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 2197 / 86
p0 1250 ± 0.9542
1340
1320
1300
1280
1260
1240
1220
1200
1180
1160

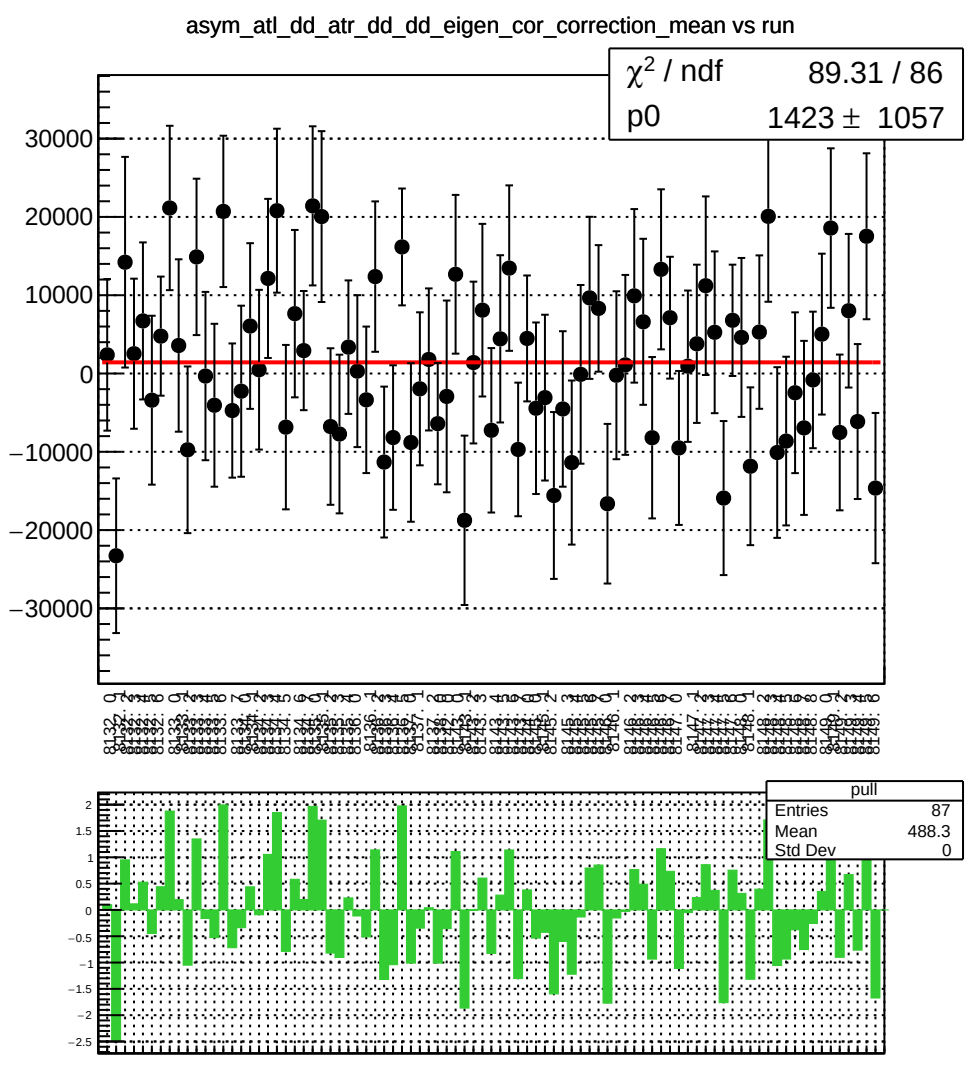

asym_atl_dd_atr_dd_dd_cor_correction_mean vs run
χ² / ndf 89.31 / 86
p0 1423 ± 1057
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean 488.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

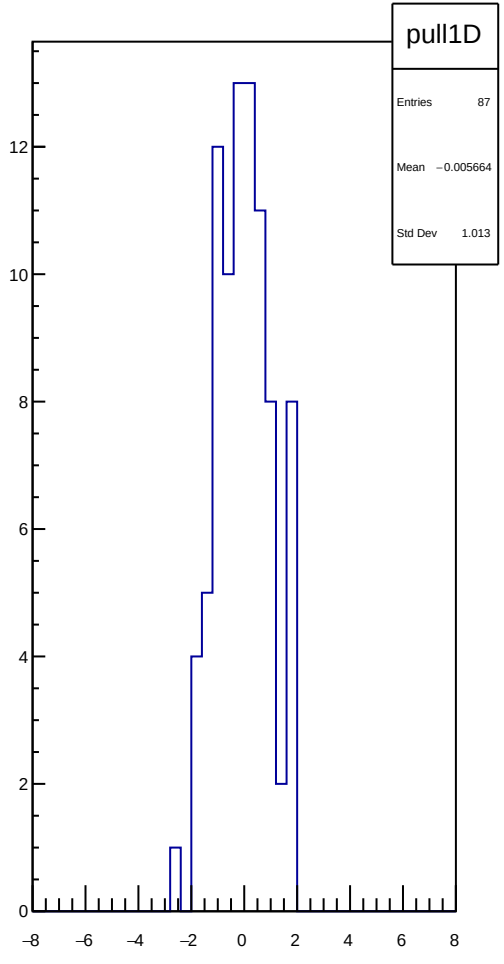

pull1D
Entries 87
Mean −0.005664
Std Dev 1.013
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

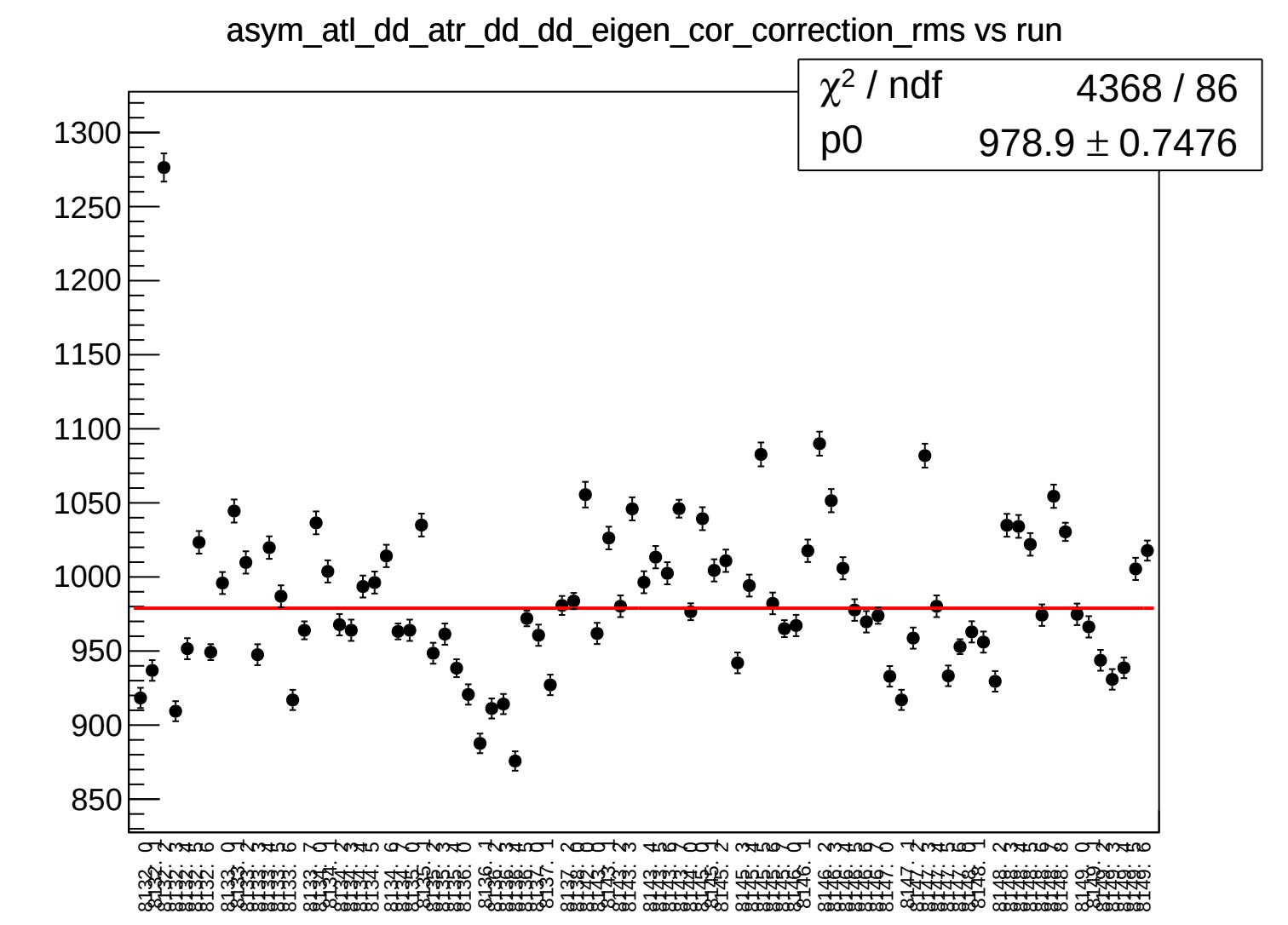

asym_atl_dd_atr_dd_dd_cor_correction_rms vs run
χ² / ndf 4368 / 86
p0 978.9 ± 0.7476
1300
1250
1200
1150
1100
1050
1000
950
900
850

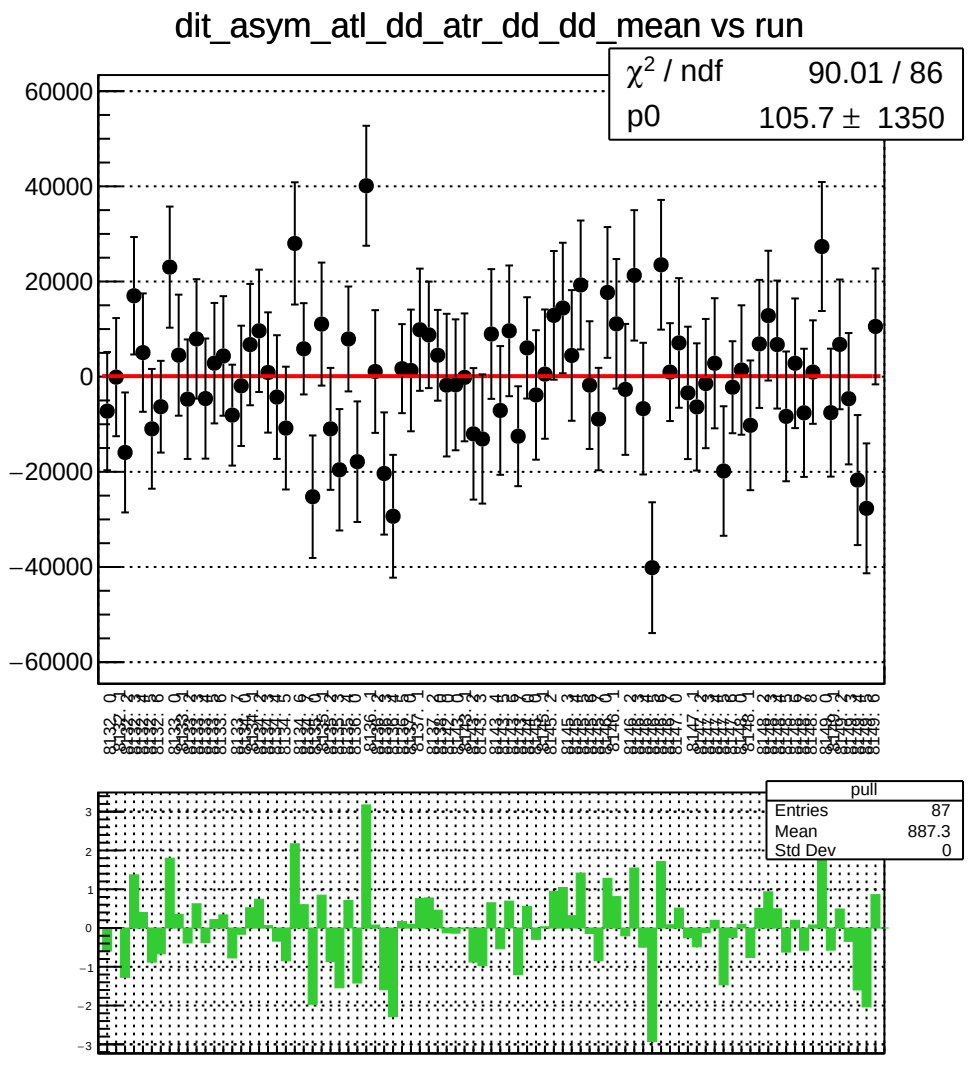

eigen_cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 89.61 / 86
p0 87.6 ± 1349
pull
Entries 87
Mean 1937
Std Dev 0
pull1D
Entries 87
Mean −0.0002925
Std Dev 1.015

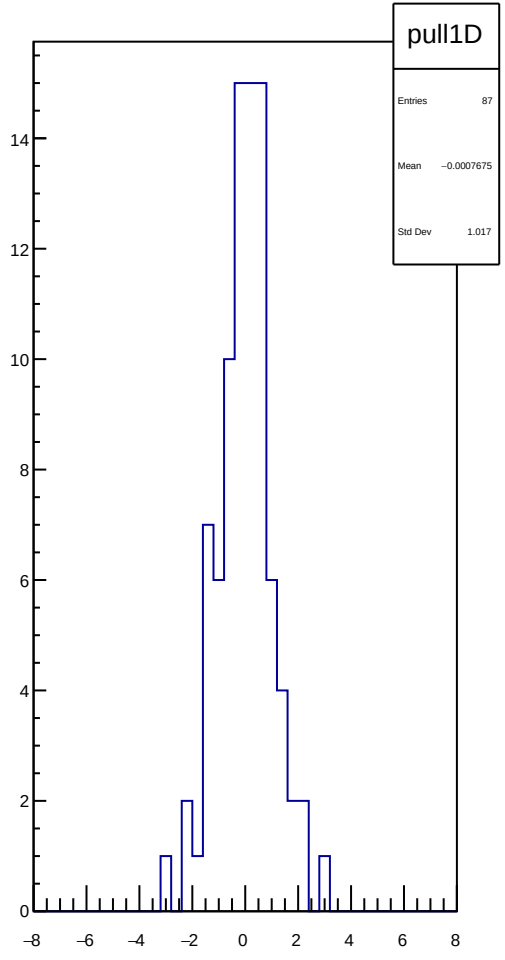

eigen_cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 2197 / 86
p0 1250 ± 0.9542
1340
1320
1300
1280
1260
1240
1220
1200
1180
1160

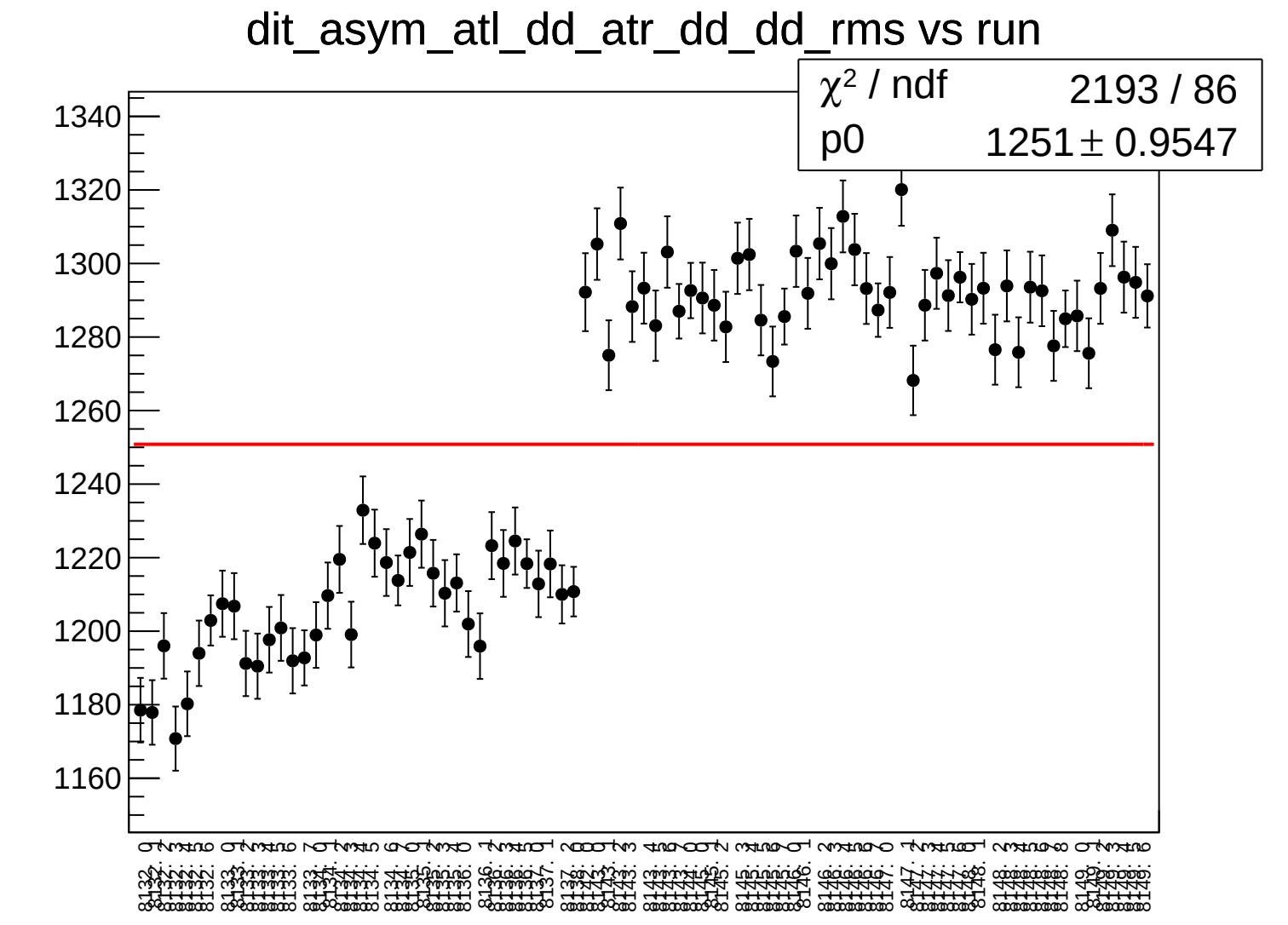

asym_atl_dd_atr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 89.31 / 86
p0 1423 ± 1057
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean 488.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

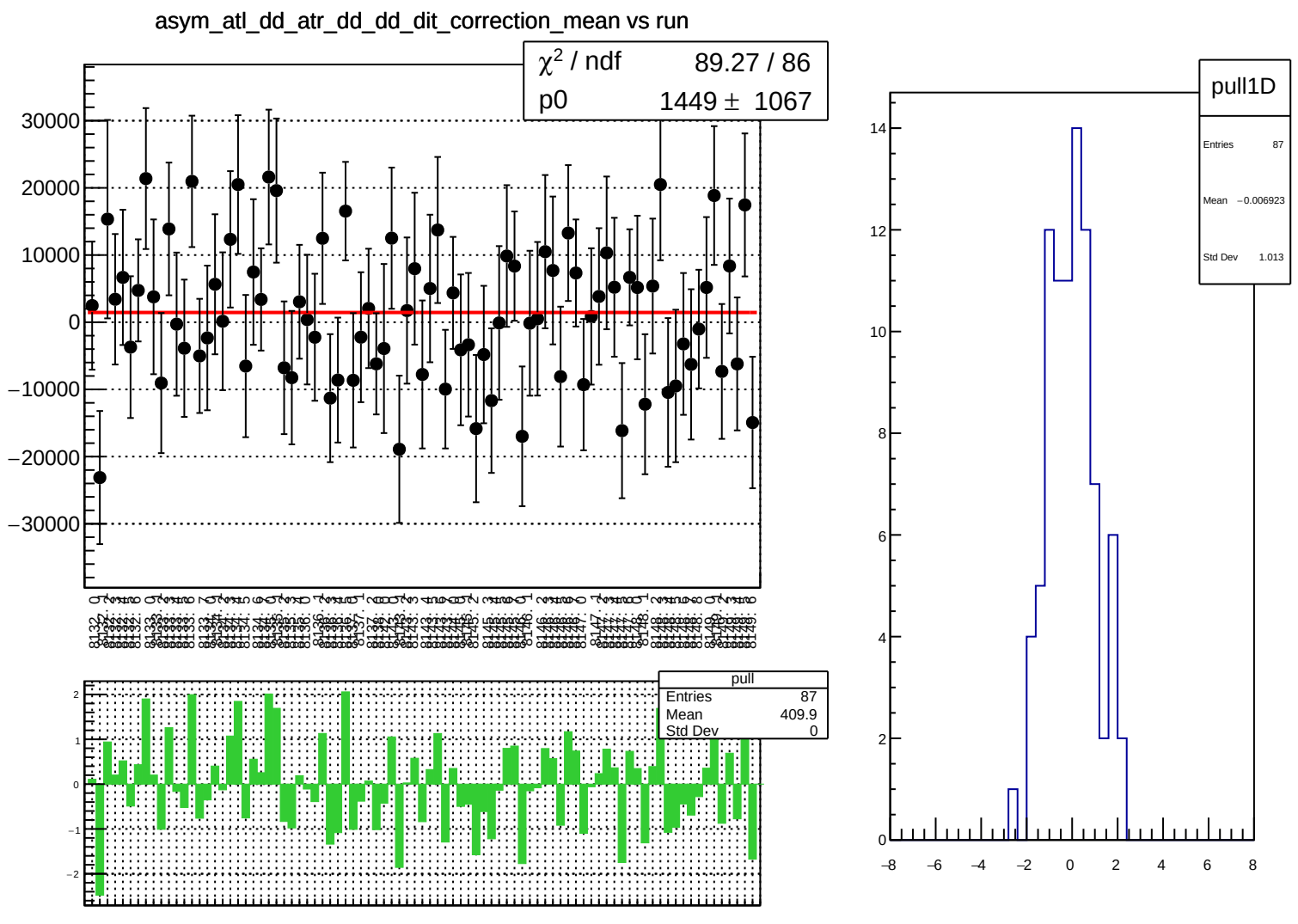

pull1D
Entries 87
Mean −0.005664
Std Dev 1.013
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

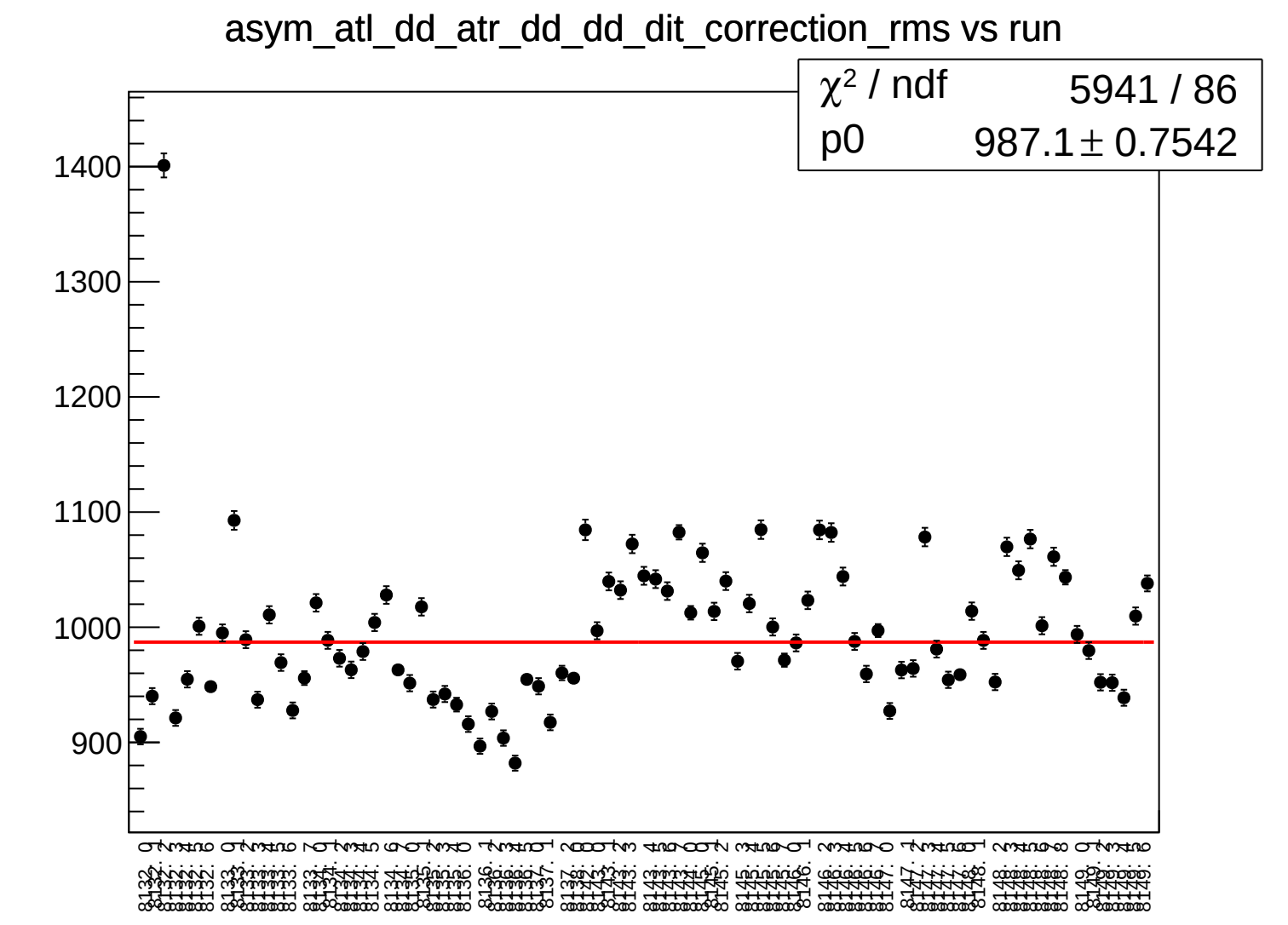

asym_atl_dd_atr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 4368 / 86
p0 978.9 ± 0.7476
1300
1250
1200
1150
1100
1050
1000
950
900
850

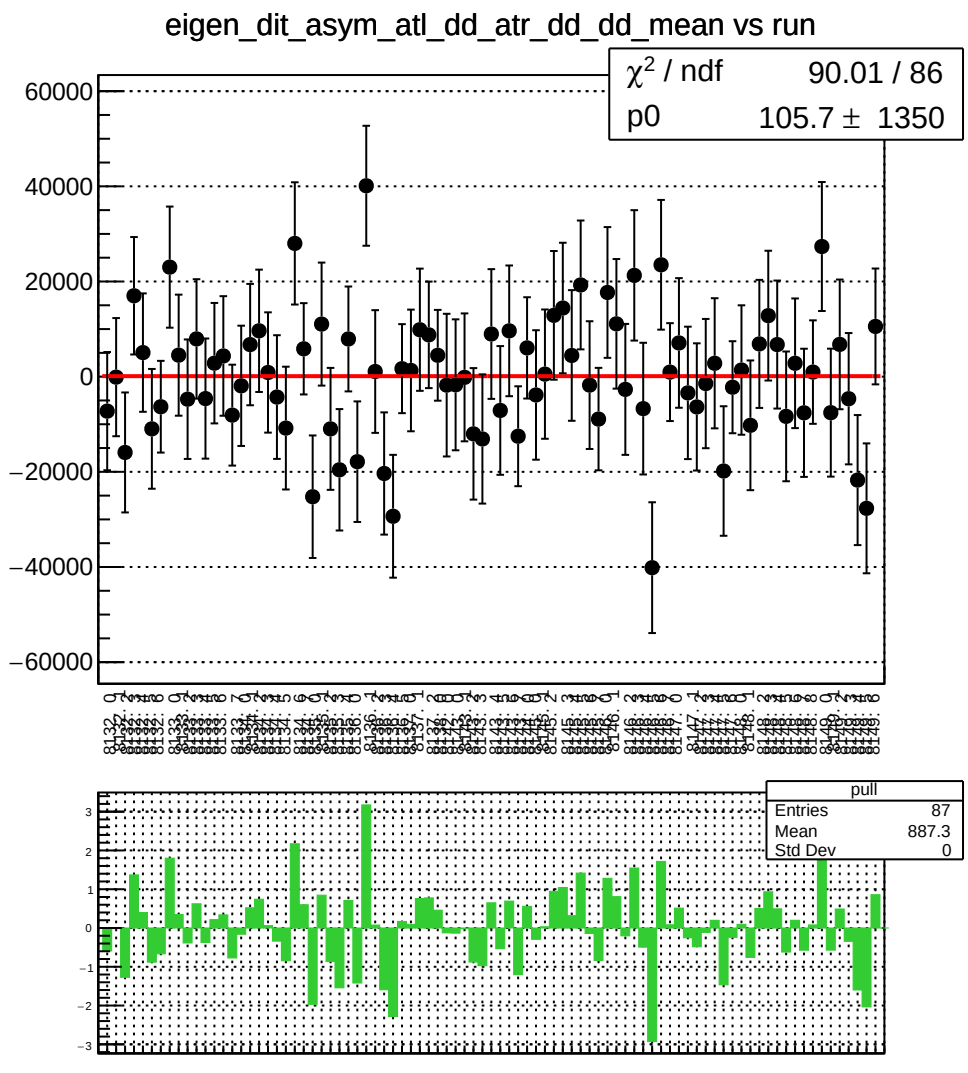

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 90.01 / 86
p0 105.7 ± 1350
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 887.3
Std Dev 0
3
2
1
0
−1
−2
−3

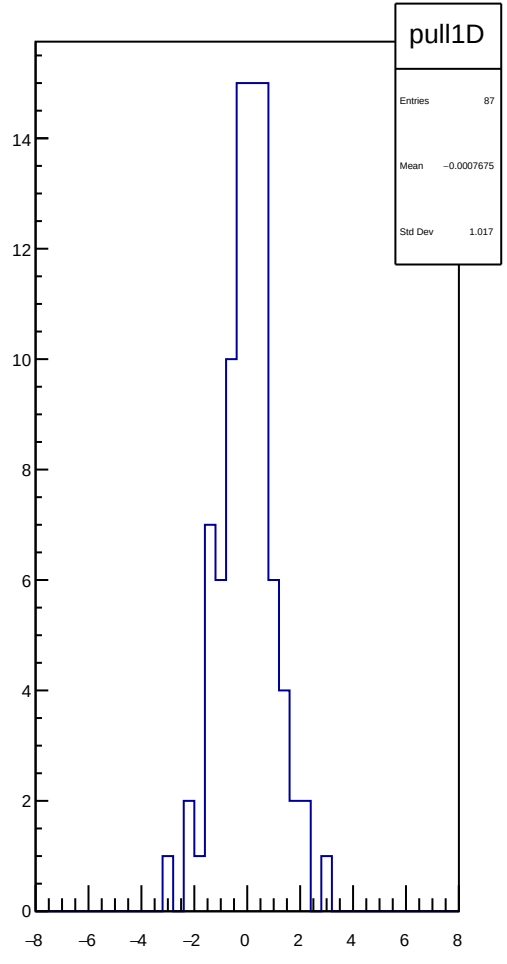

pull1D
Entries 87
Mean −0.0007675
Std Dev 1.017
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

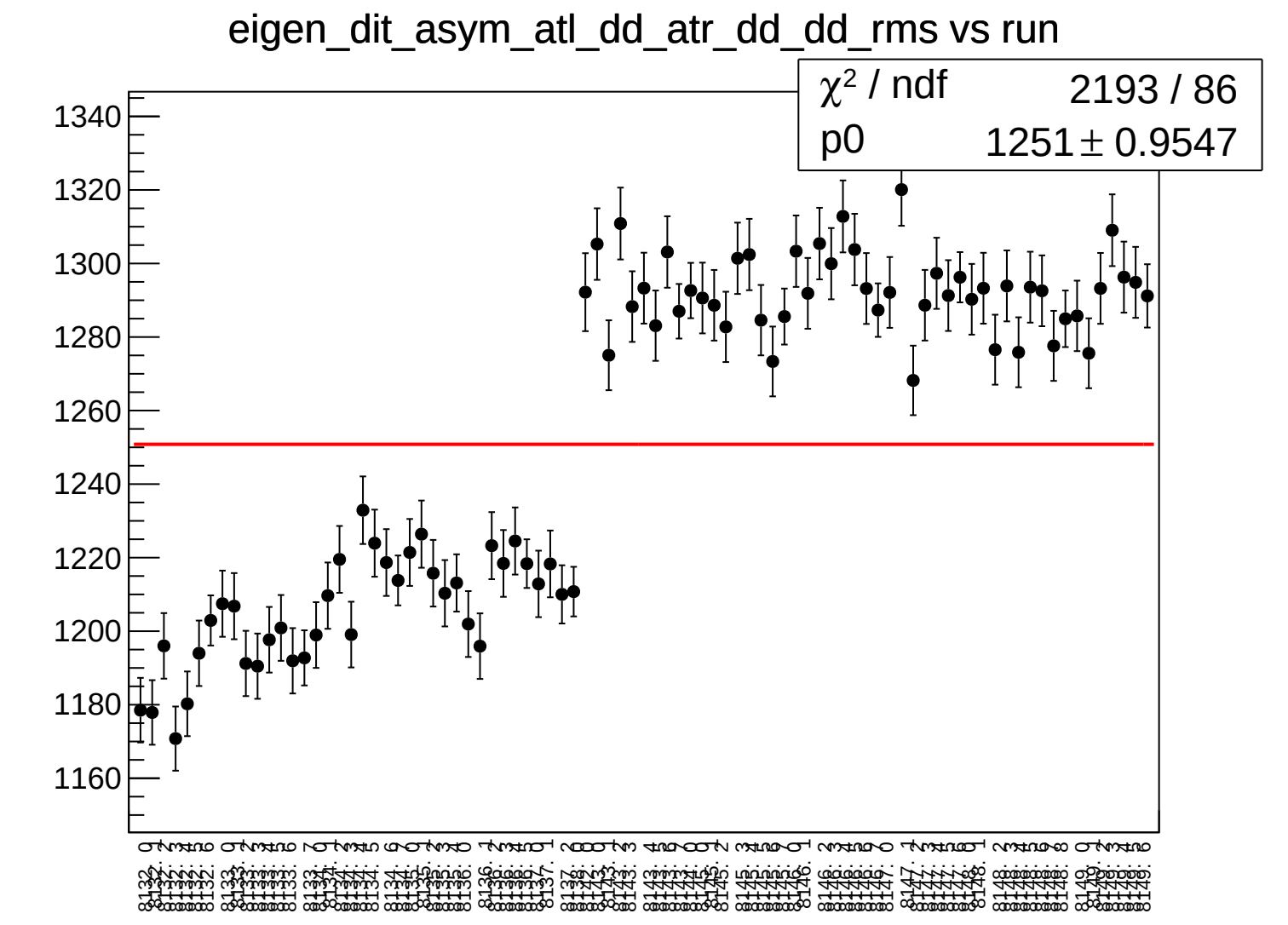

dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 2193 / 86
p0 1251 ± 0.9547
1340
1320
1300
1280
1260
1240
1220
1200
1180
1160

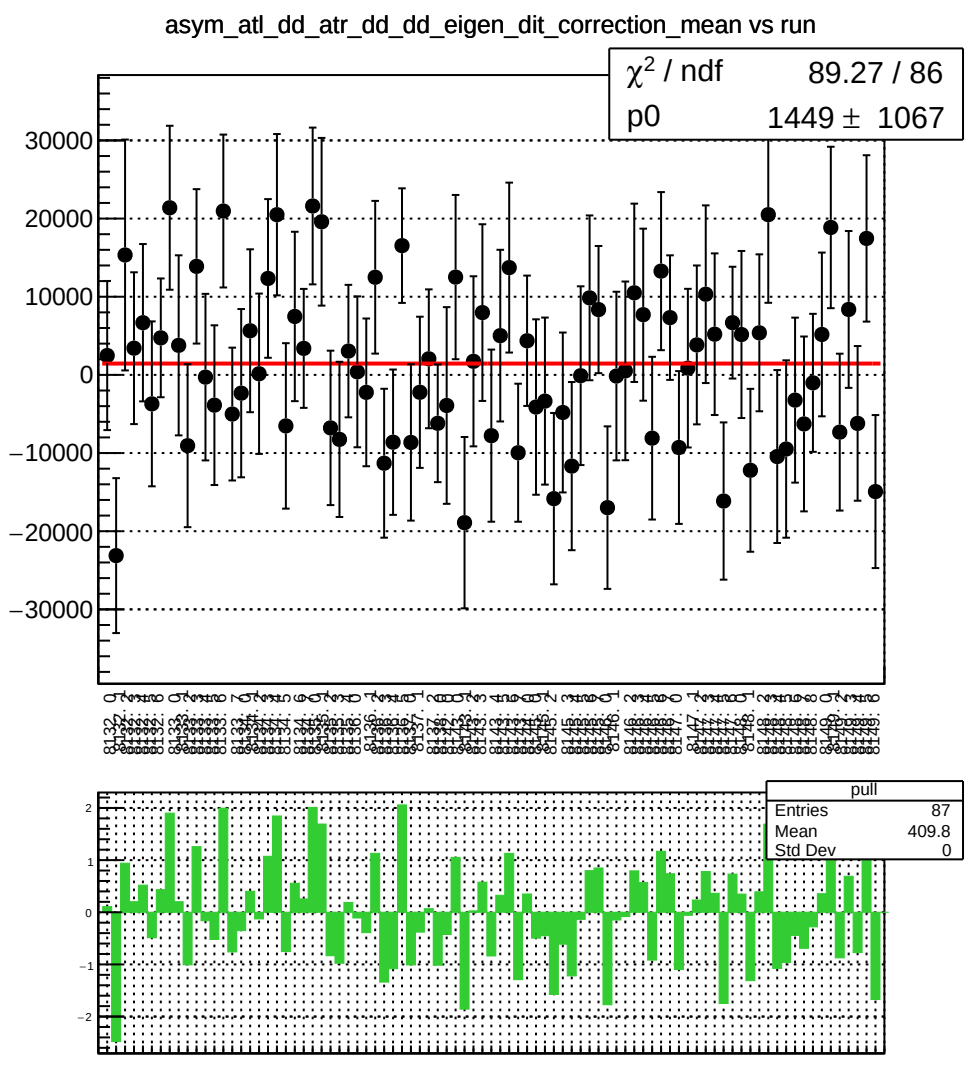

asym_atl_dd_atr_dd_dd_dit_correction_mean vs run
χ² / ndf 89.27 / 86
p0 1449 ± 1067
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean 409.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.006923
Std Dev 1.013
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

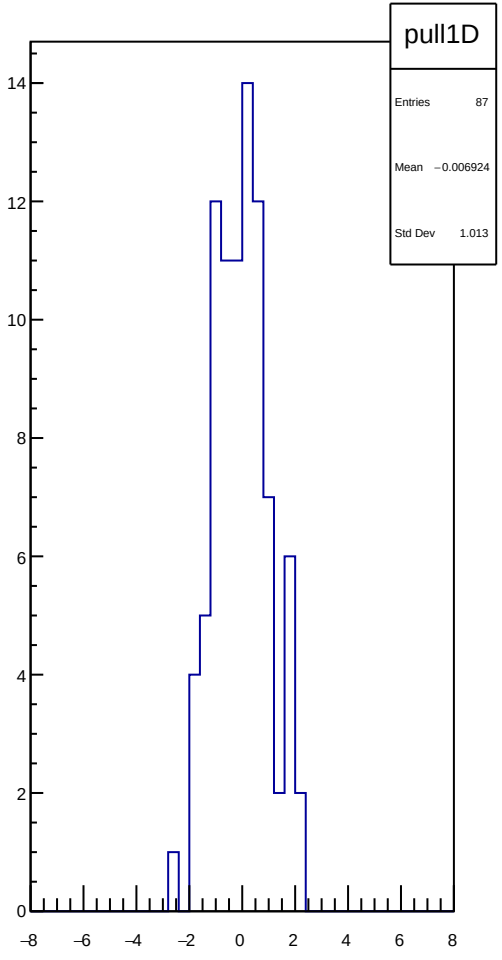

asym_atl_dd_atr_dd_dd_dit_correction_rms vs run
χ² / ndf 5941 / 86
p0 987.1 ± 0.7542
1400
1300
1200
1100
1000
900

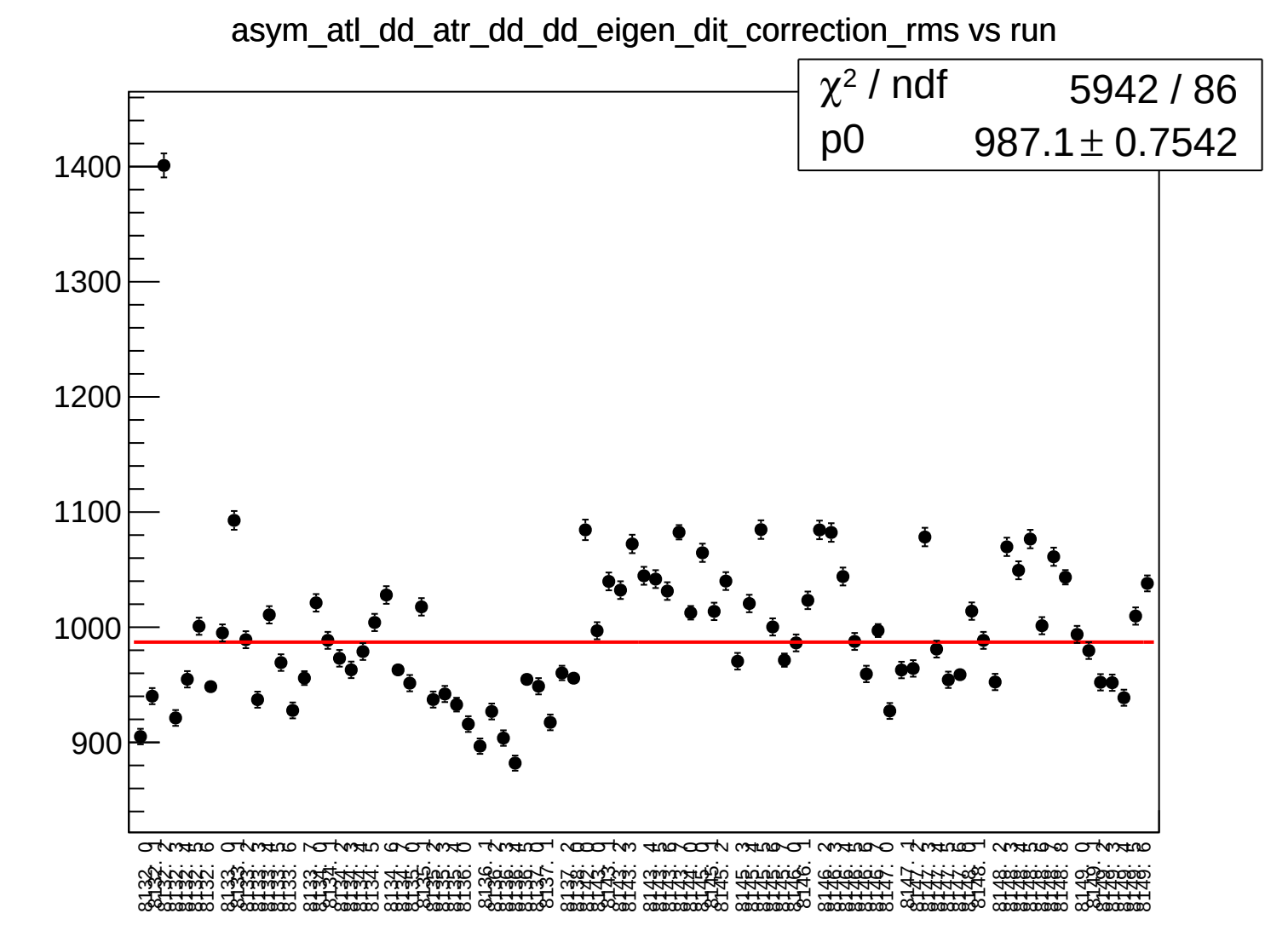

eigen_dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 90.01 / 86
p0 105.7 ± 1350
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 887.3
Std Dev 0
3
2
1
0
−1
−2
−3

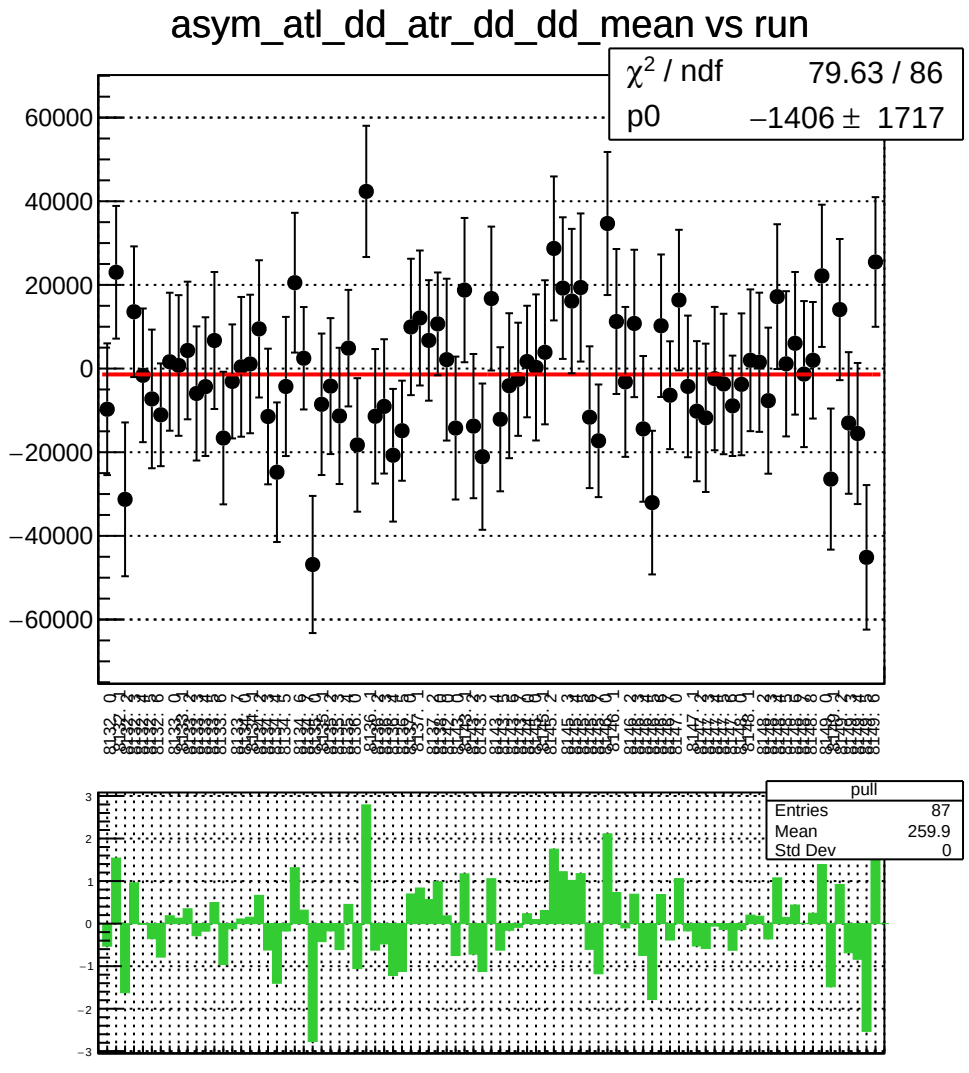

pull1D
Entries 87
Mean −0.0007675
Std Dev 1.017
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

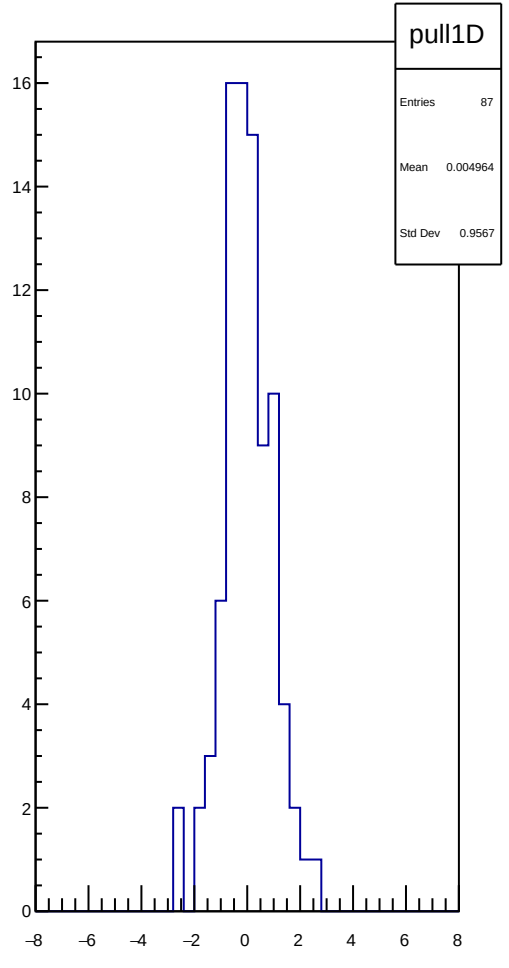

eigen_dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 2193 / 86
p0 1251 ± 0.9547
1340
1320
1300
1280
1260
1240
1220
1200
1180
1160

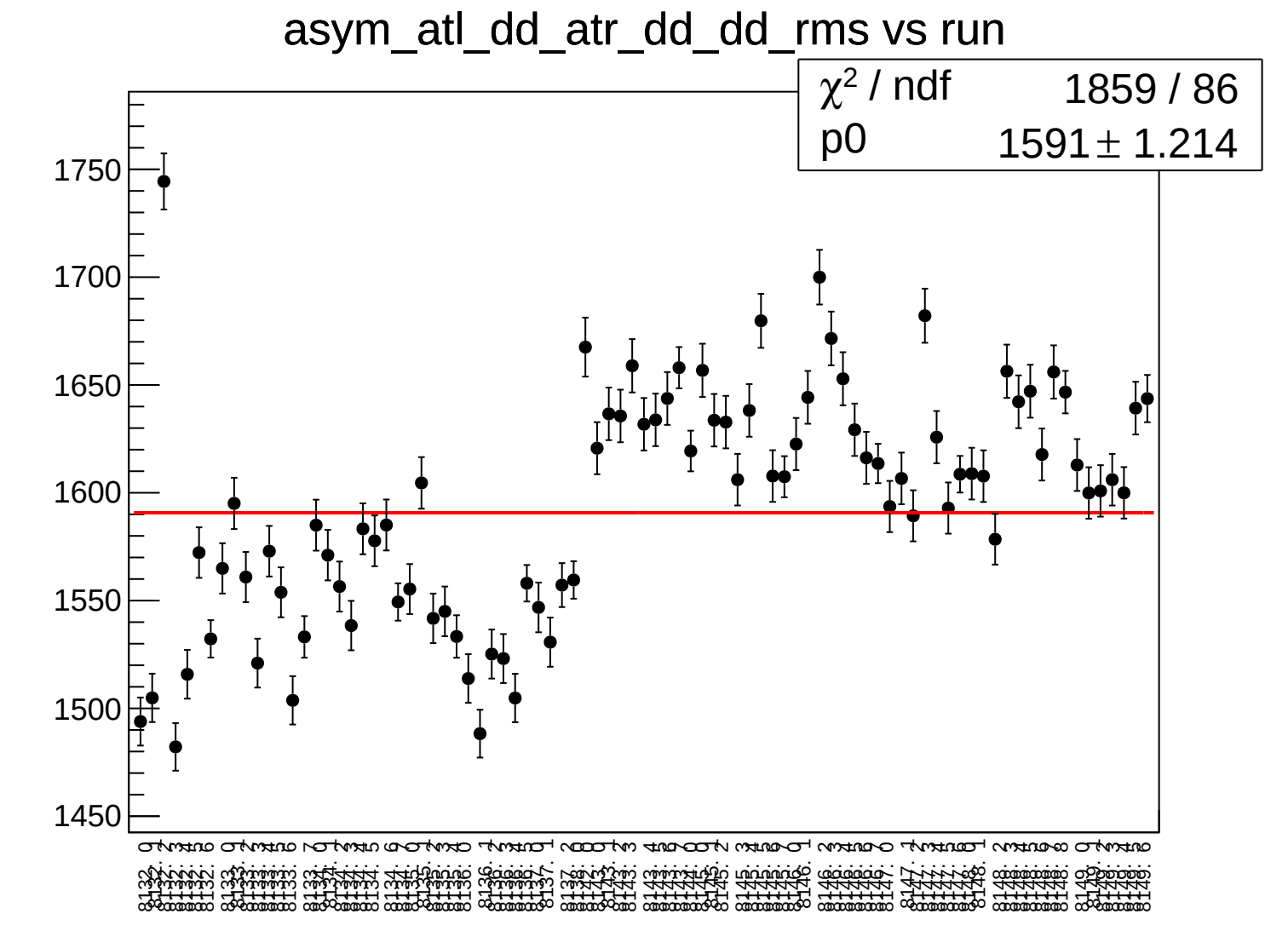

asym_atl_dd_atr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 89.27 / 86
p0 1449 ± 1067
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean 409.8
Std Dev 0
2
1
0
−1
−2

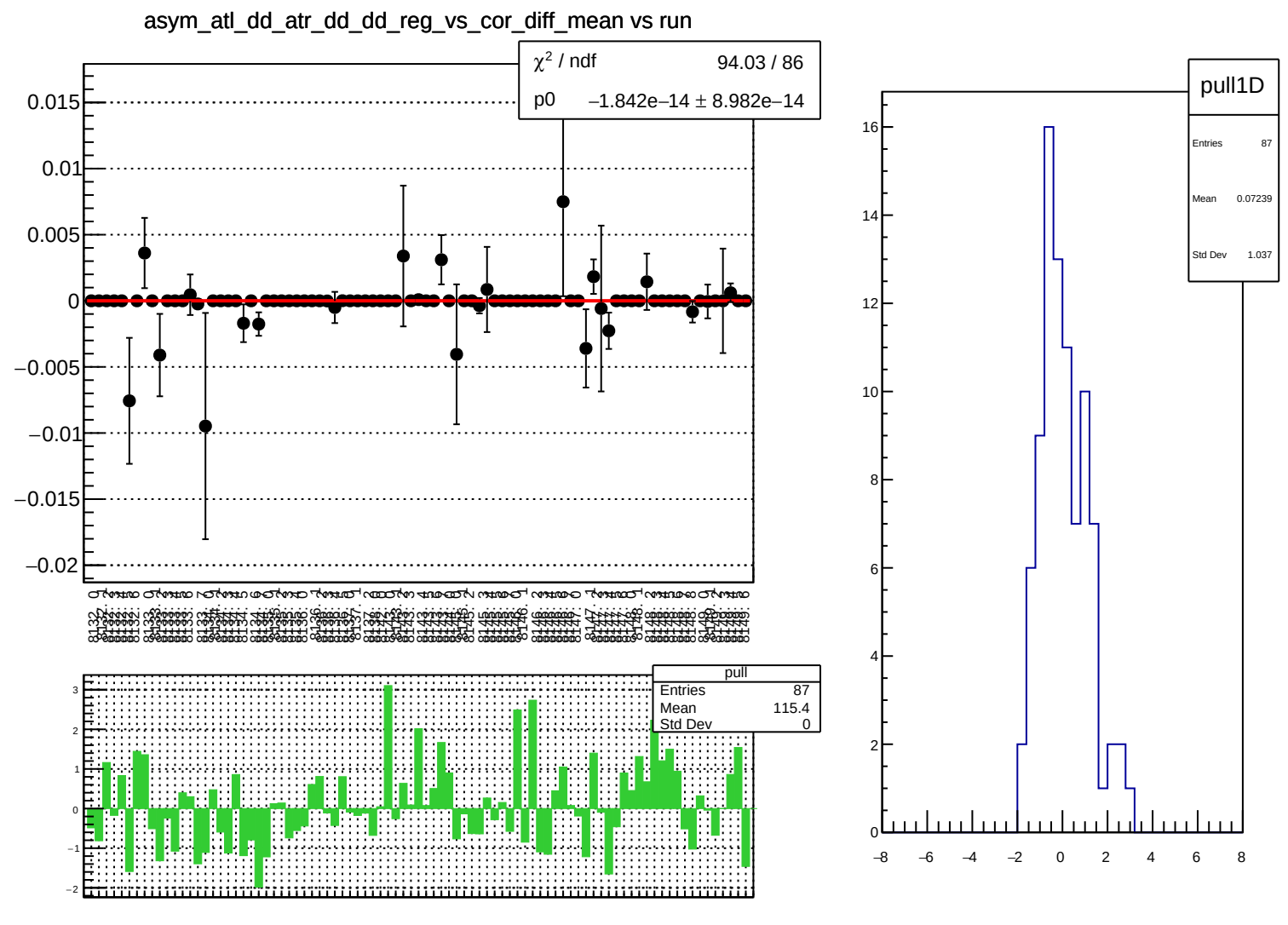

pull1D
Entries 87
Mean −0.006924
Std Dev 1.013
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

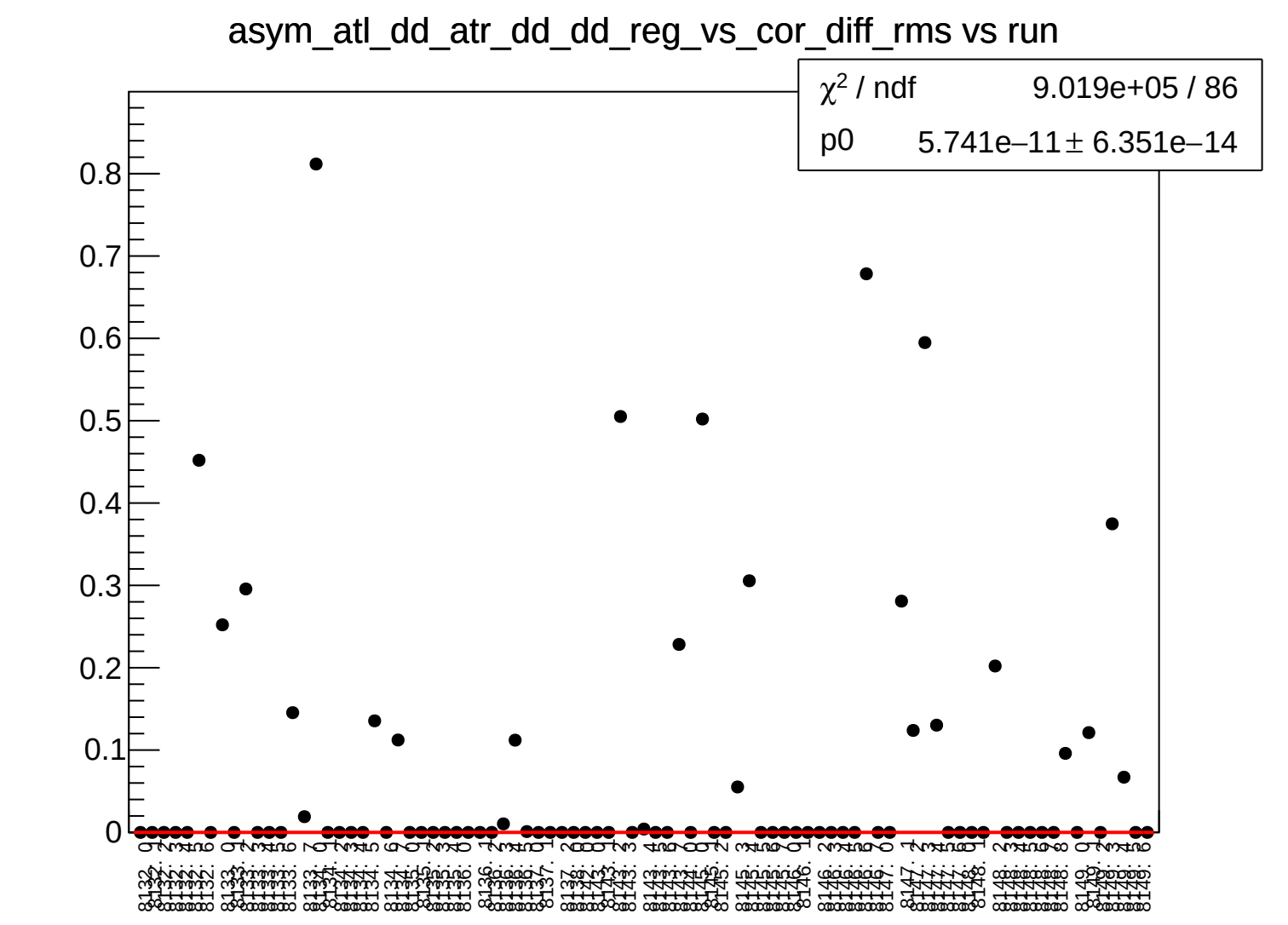

asym_atl_dd_atr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 5942 / 86
p0 987.1 ± 0.7542
1400
1300
1200
1100
1000
900

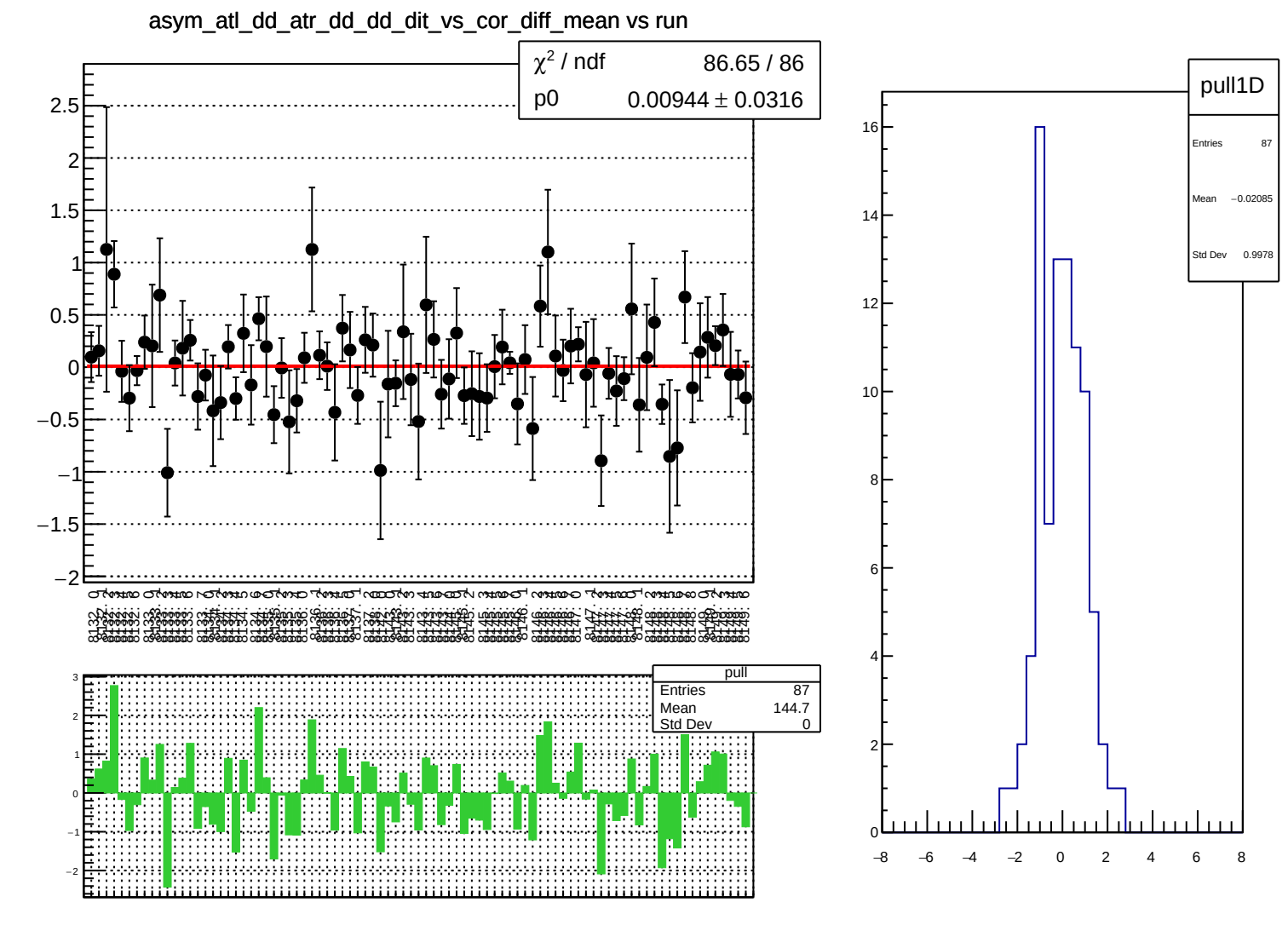

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 79.63 / 86
p0 −1406 ± 1717
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 259.9
Std Dev 0
3
2
1
0
−1
−2
−3

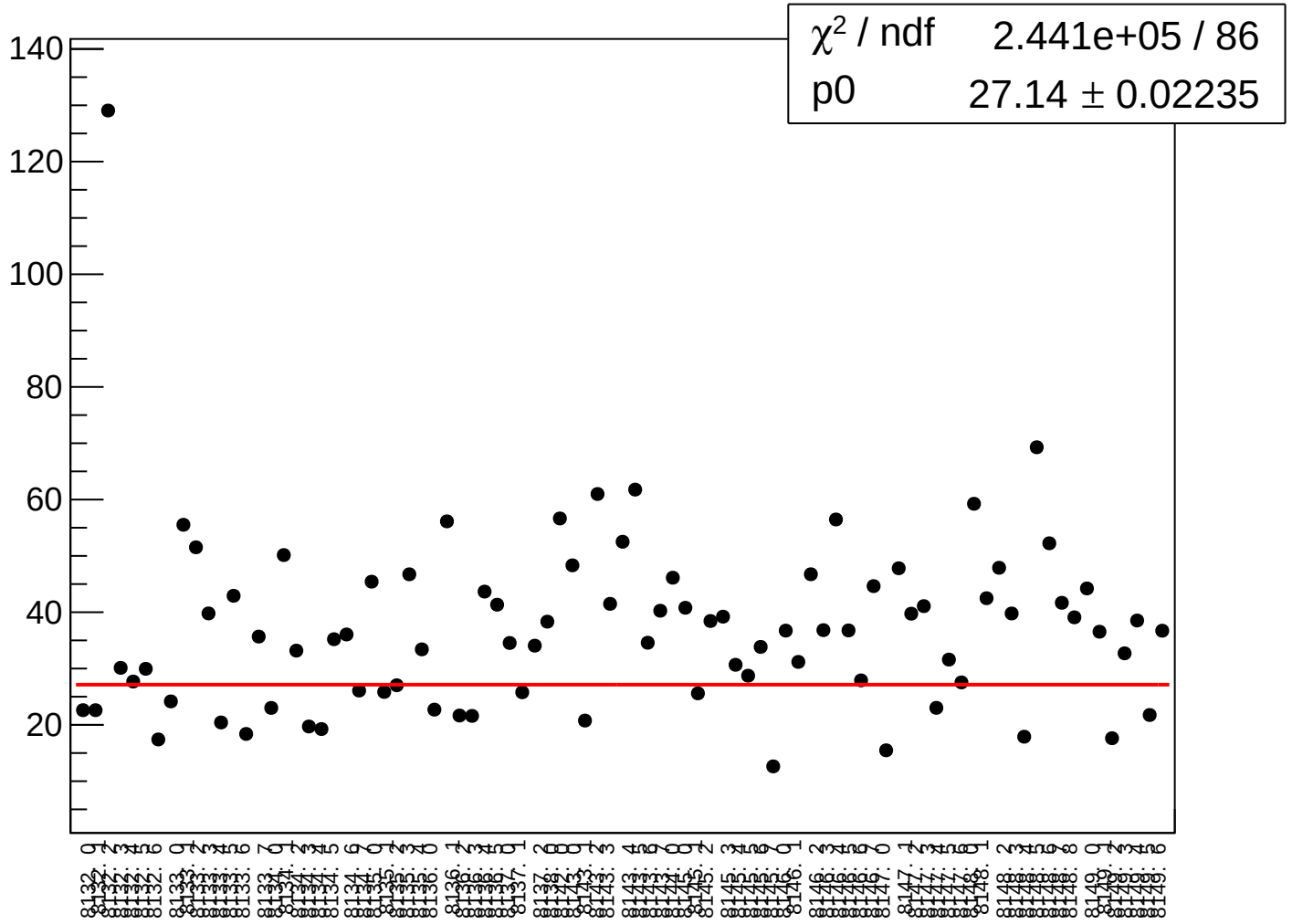

pull1D
Entries 87
Mean 0.004964
Std Dev 0.9567
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

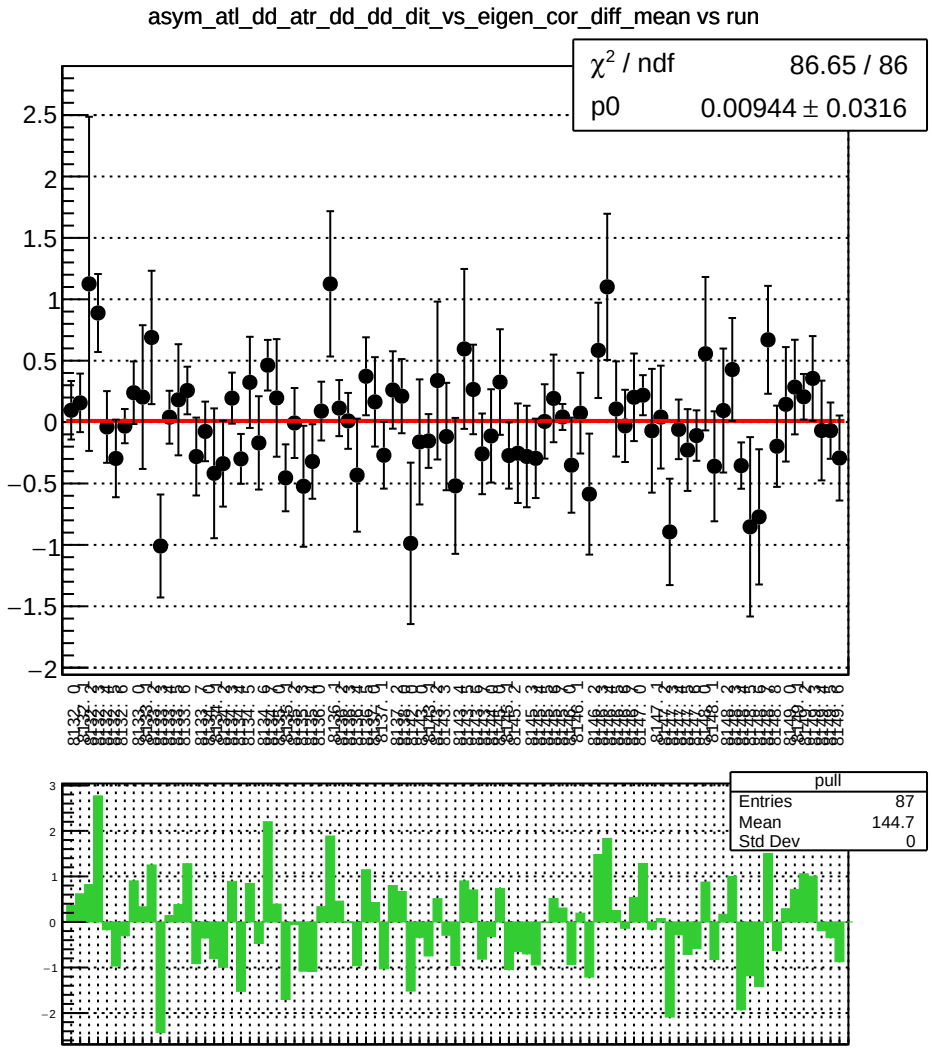

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 1859 / 86
p0 1591 ± 1.214
1750
1700
1650
1600
1550
1500
1450

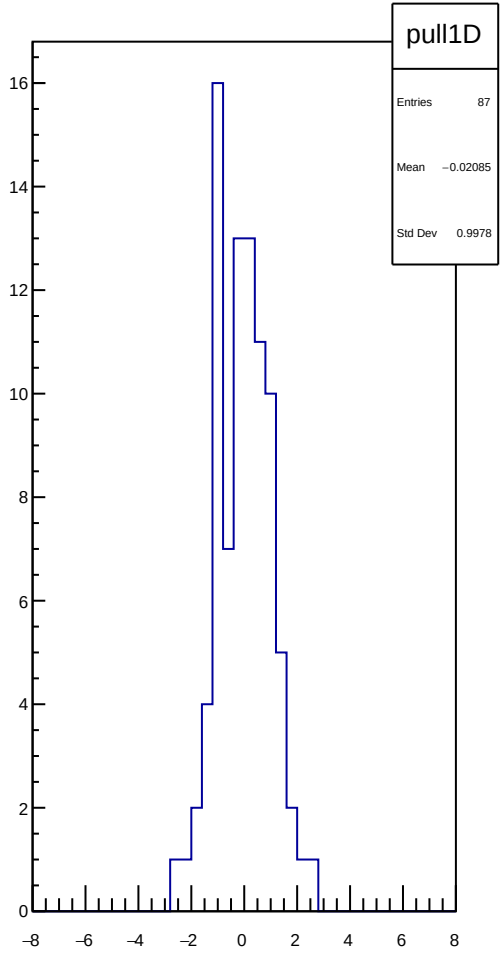

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 94.03 / 86
p0 −1.842e−14 ± 8.982e−14
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 87
Mean 115.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.07239
Std Dev 1.037
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

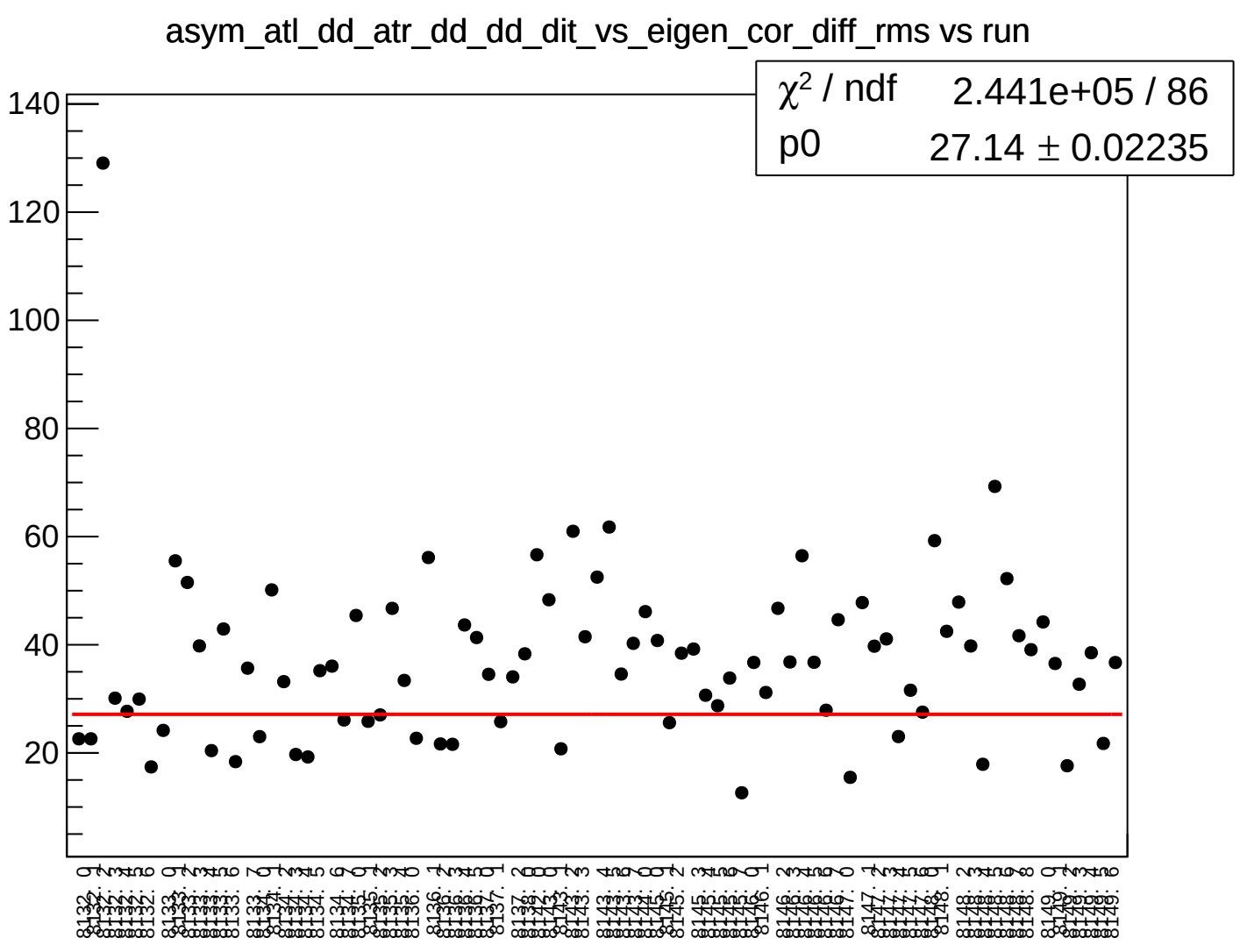

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.019e+05 / 86
p0 5.741e−11 ± 6.351e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

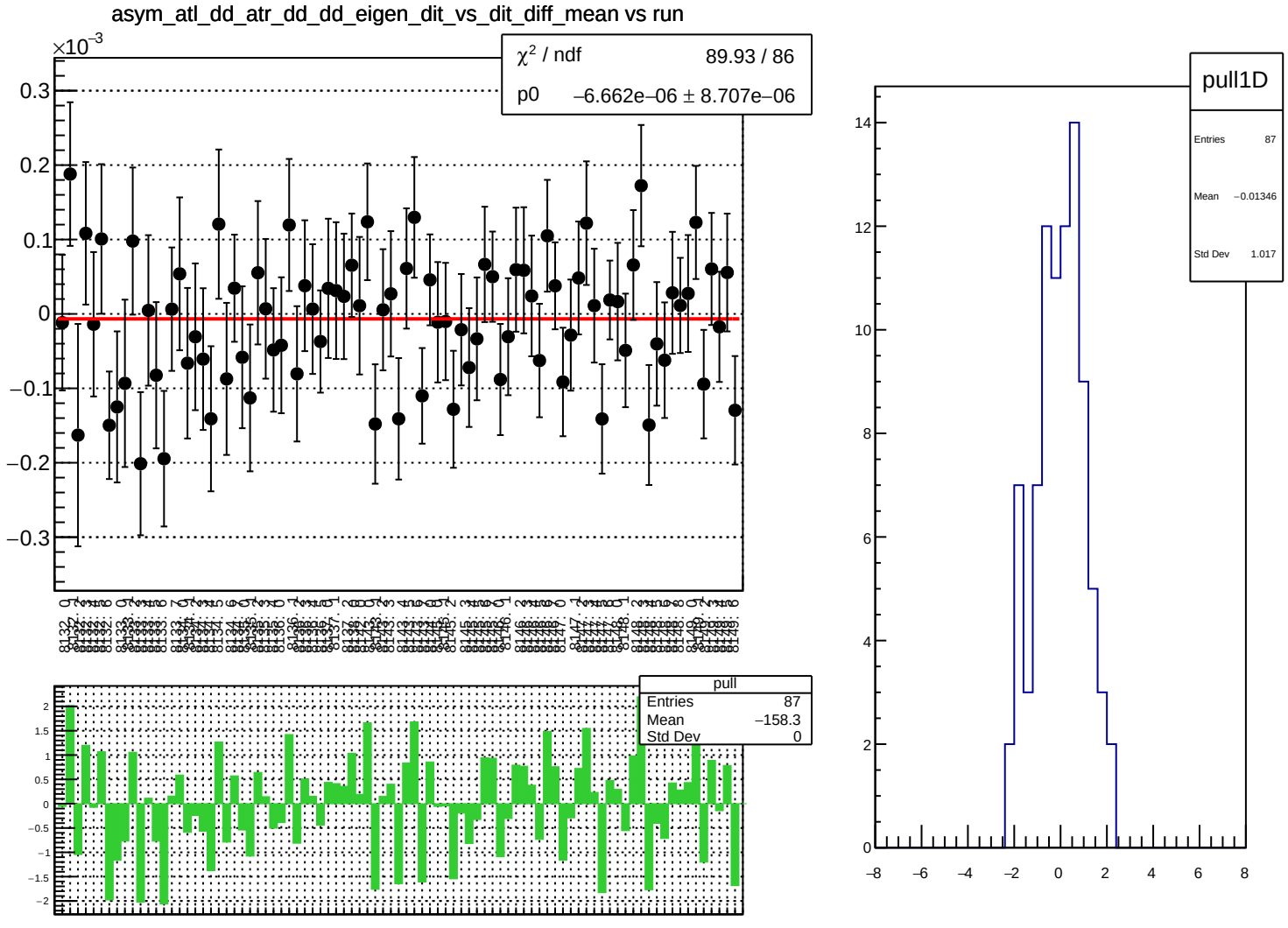

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 86.65 / 86
p0 0.00944 ± 0.0316
pull
Entries 87
Mean 144.7
Std Dev 0
pull1D
Entries 87
Mean −0.02085
Std Dev 0.9978

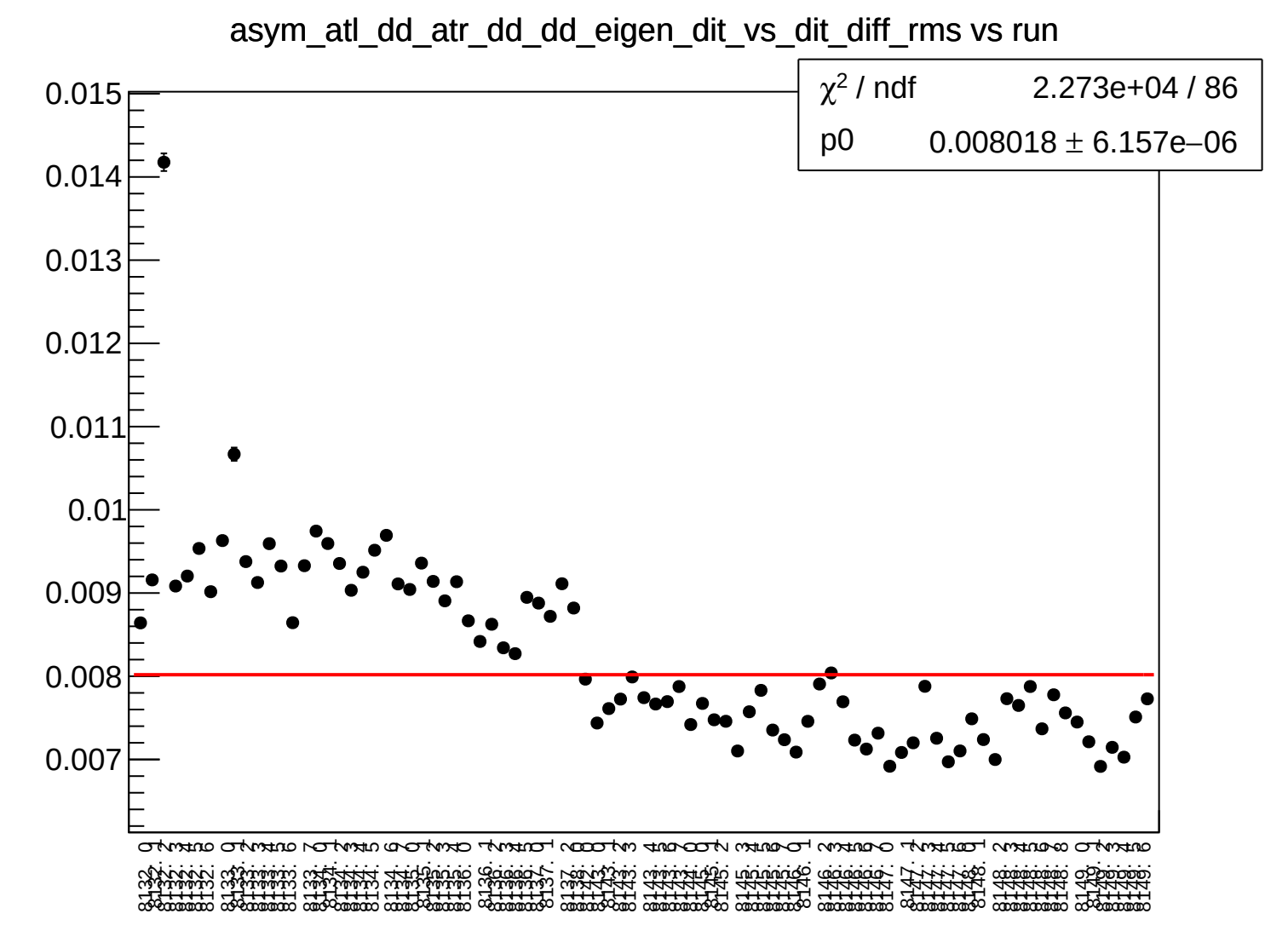

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.441e+05 / 86
p0 27.14 ± 0.02235
140
120
100
80
60
40
20

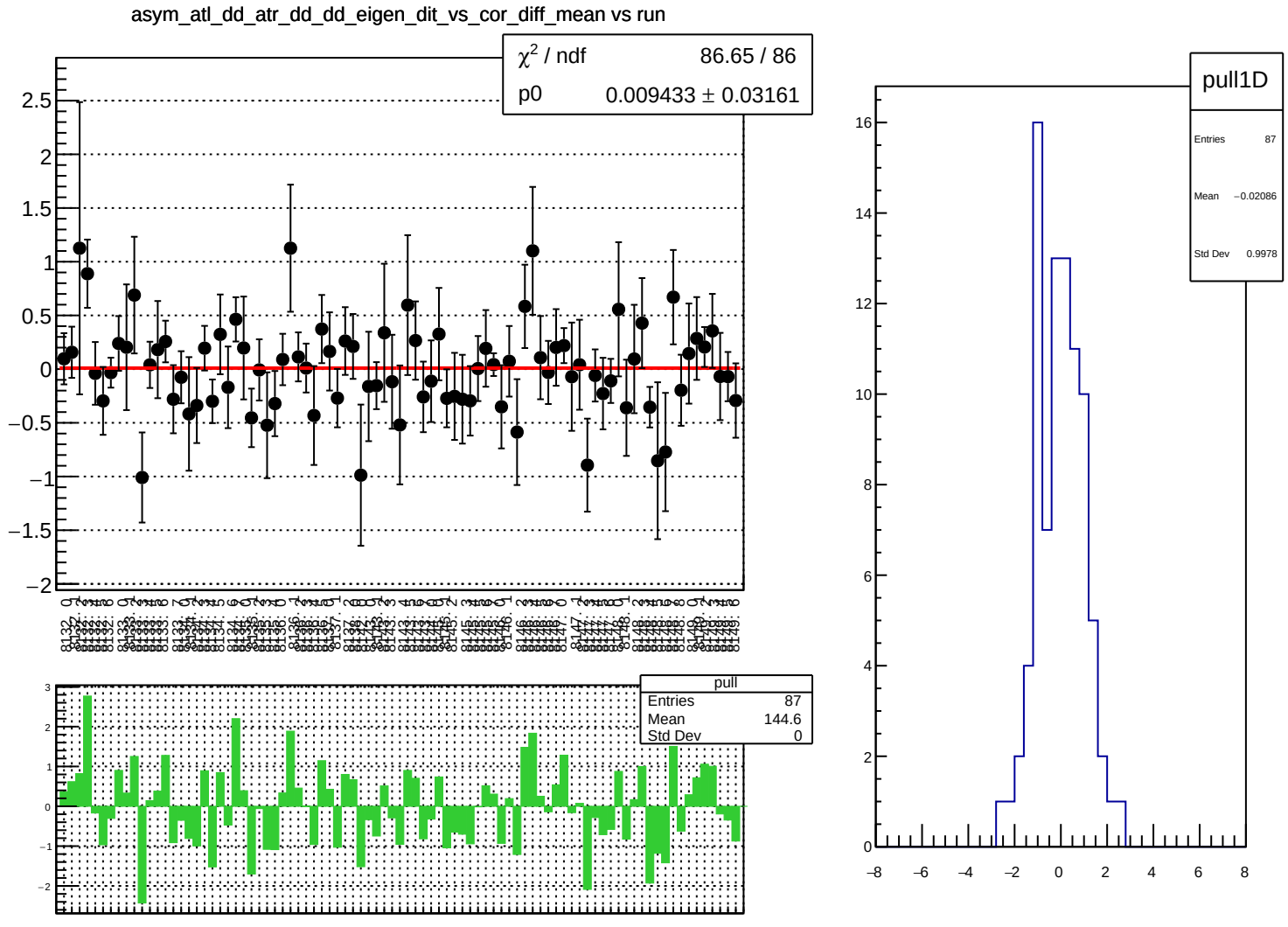

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.65 / 86
p0 0.00944 ± 0.0316
pull
Entries 87
Mean 144.7
Std Dev 0

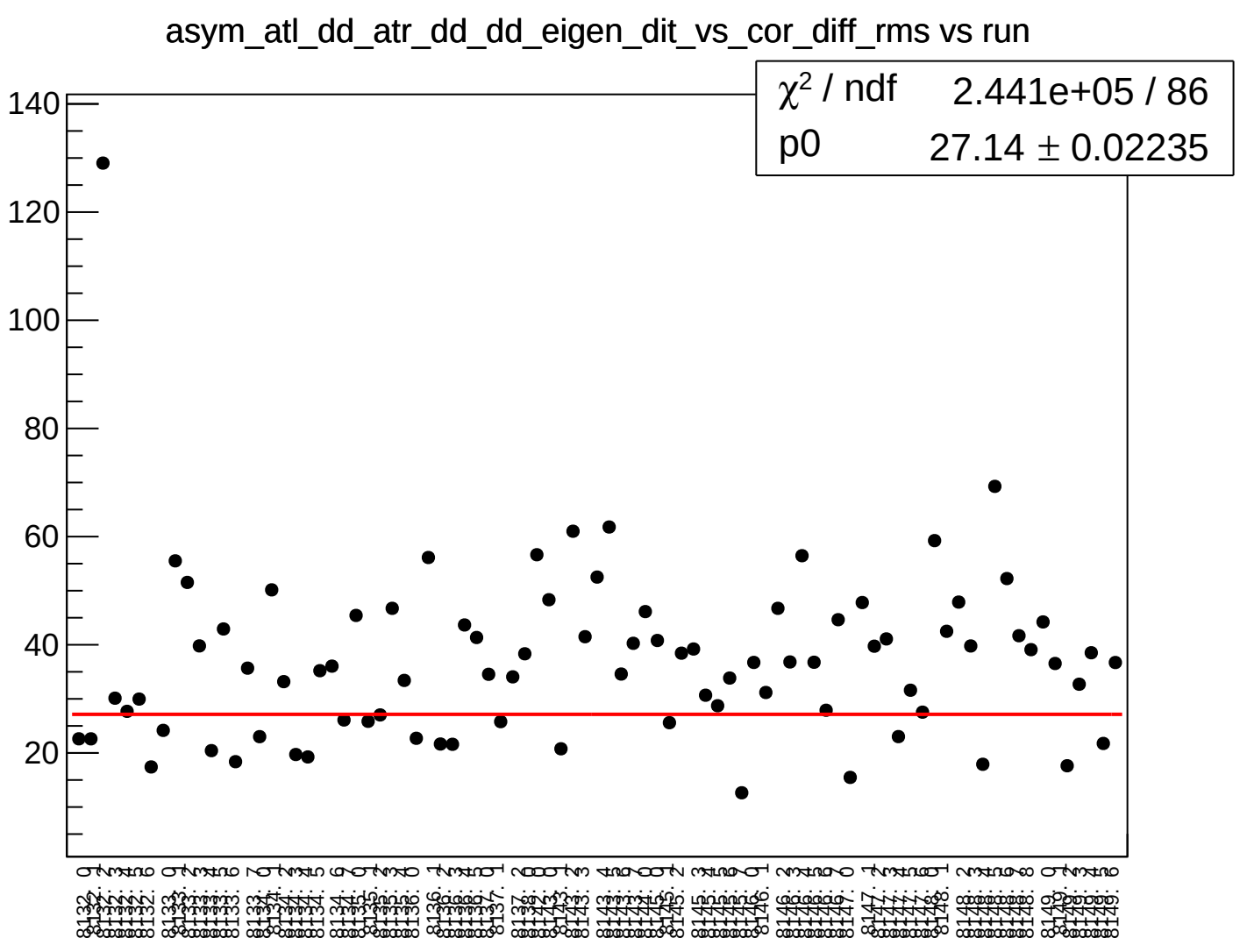

pull1D
Entries 87
Mean −0.02085
Std Dev 0.9978

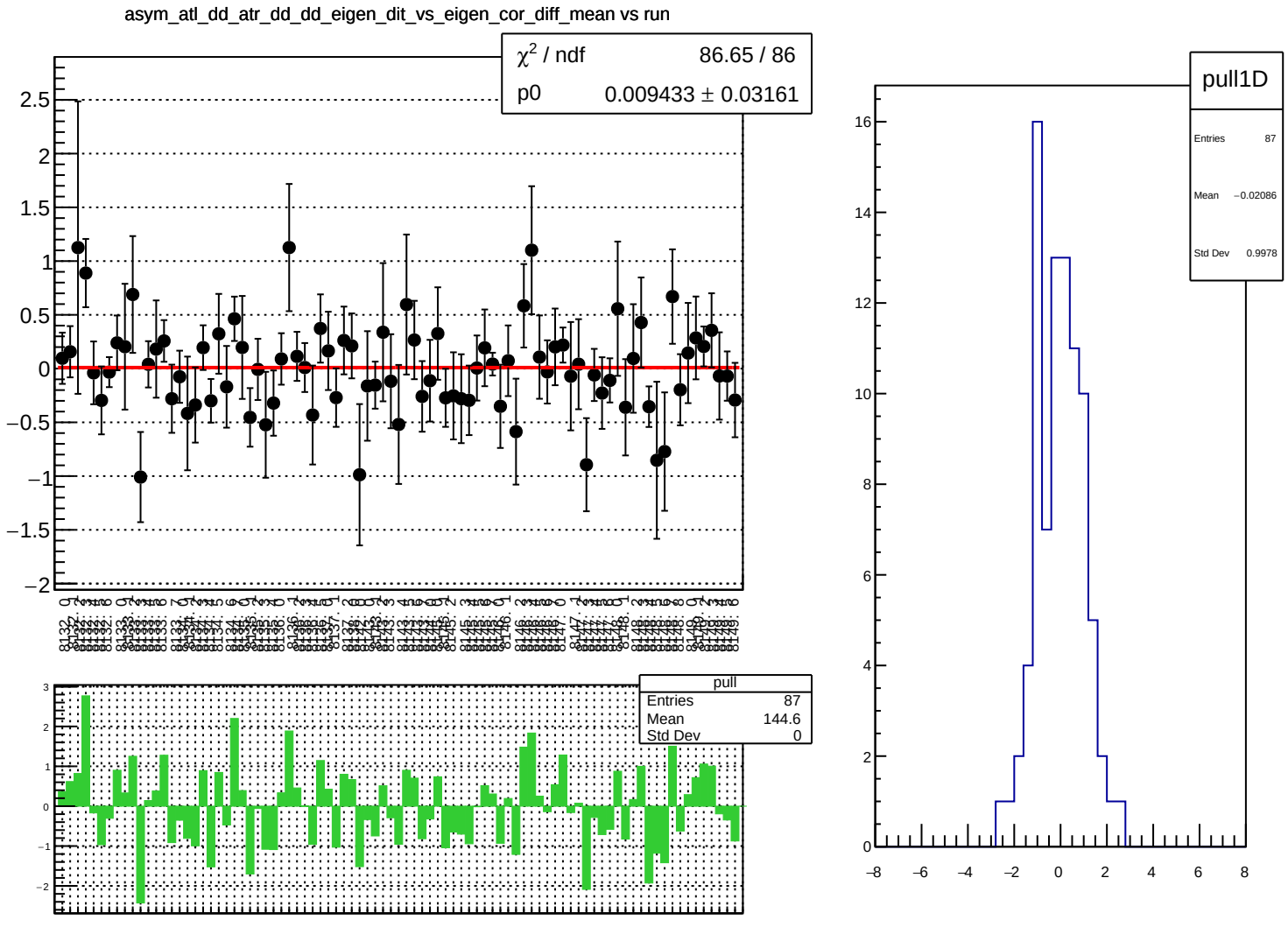

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.441e+05 / 86
p0 27.14 ± 0.02235
140
120
100
80
60
40
20

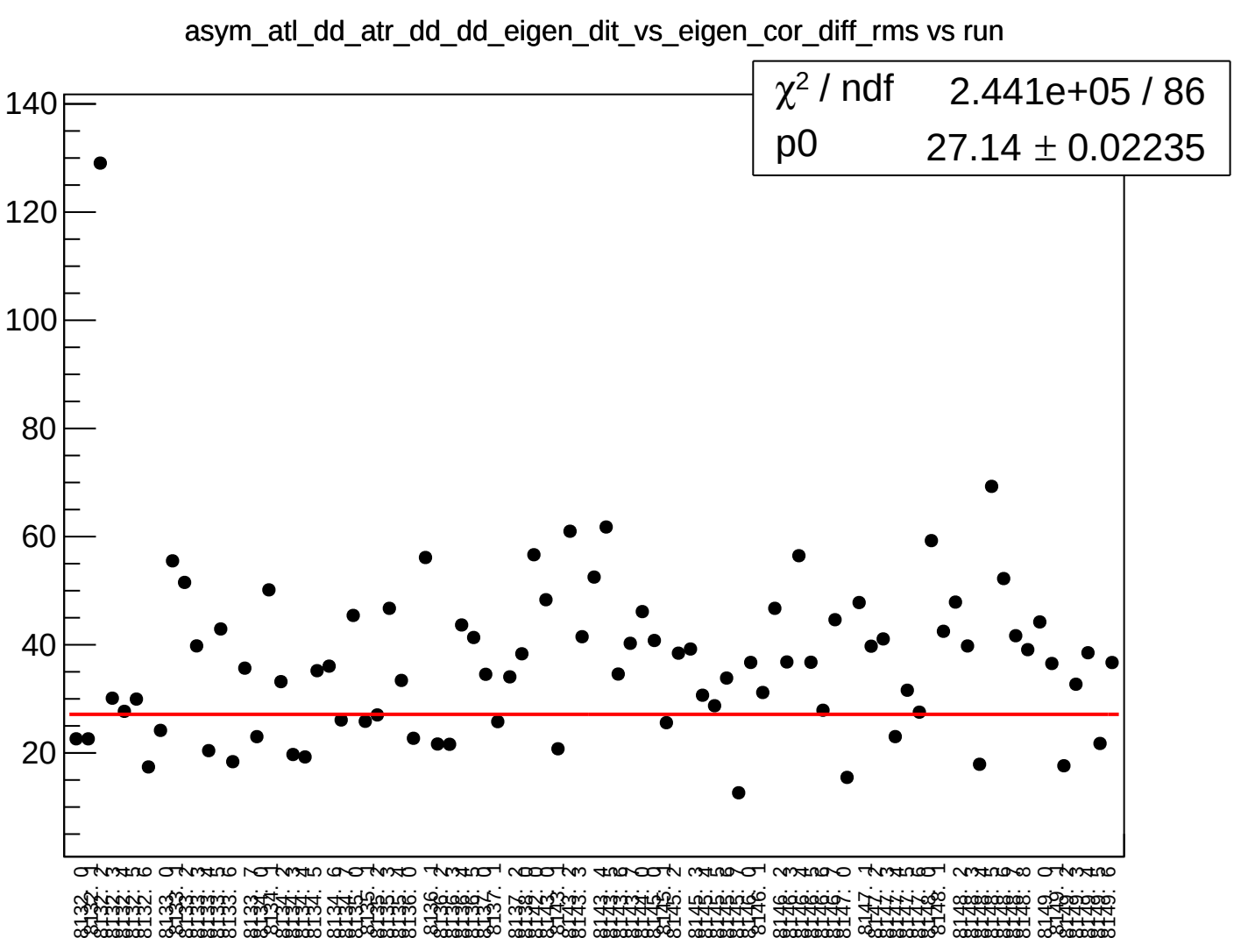

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.93 / 86
p0 −6.662e−06 ± 8.707e−06
pull
Entries 87
Mean −158.3
Std Dev 0
pull1D
Entries 87
Mean −0.01346
Std Dev 1.017

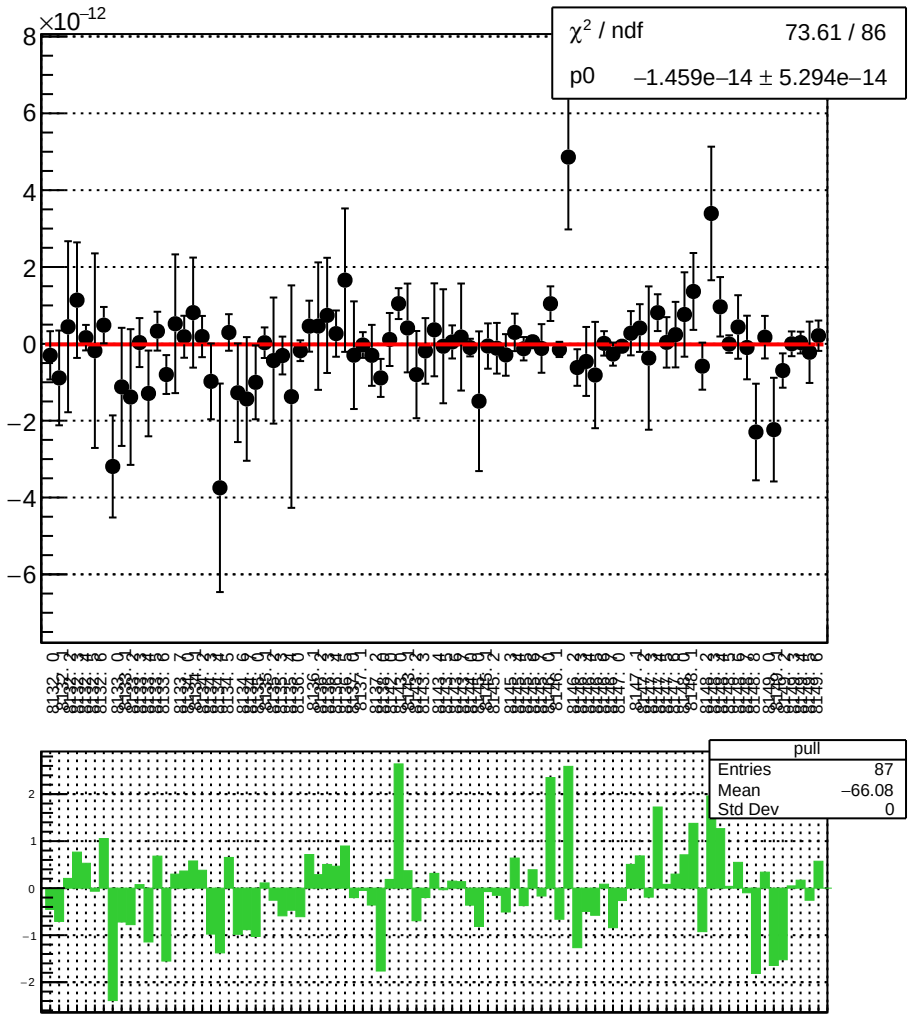

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.273e+04 / 86
p0 0.008018 ± 6.157e−06
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007

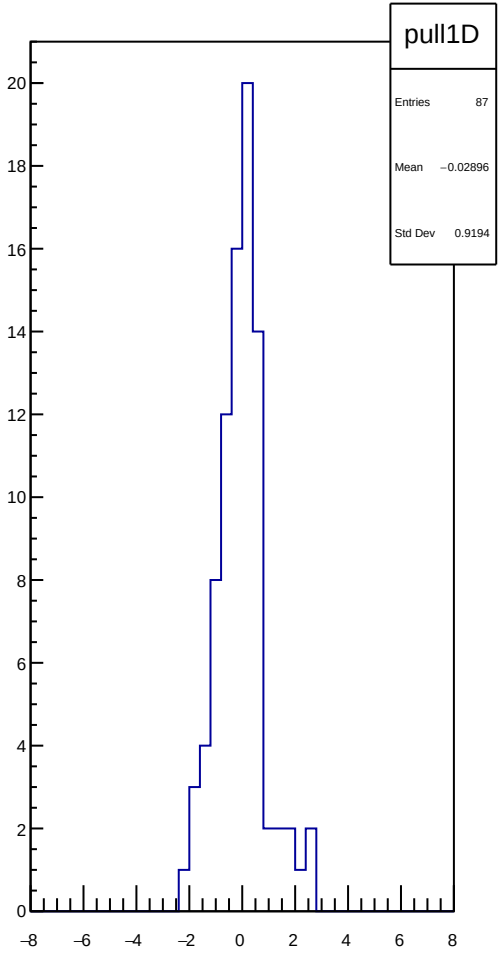

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.65 / 86
p0 0.009433 ± 0.03161
pull
Entries 87
Mean 144.6
Std Dev 0
pull1D
Entries 87
Mean −0.02086
Std Dev 0.9978

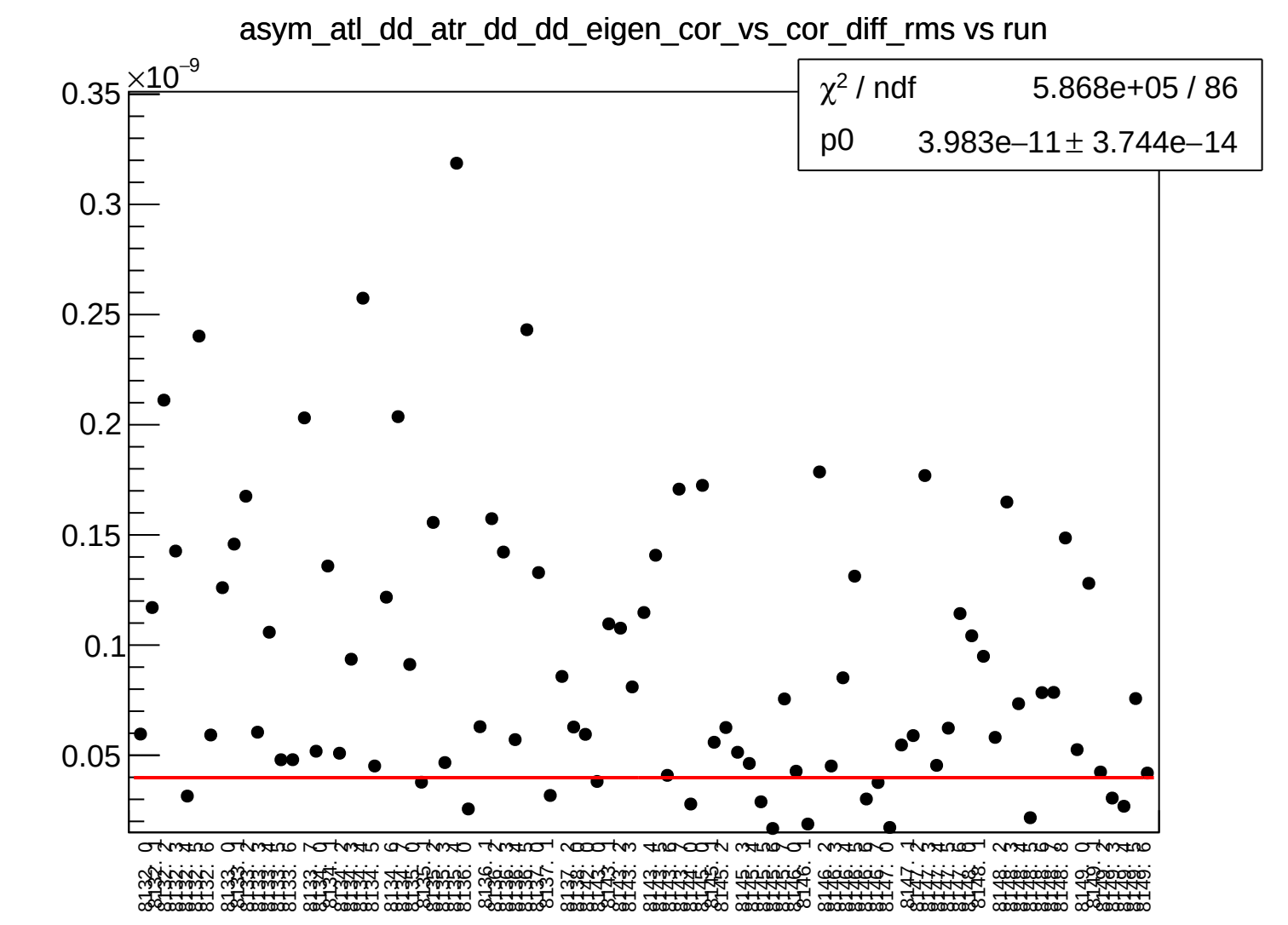

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.441e+05 / 86
p0 27.14 ± 0.02235
140
120
100
80
60
40
20

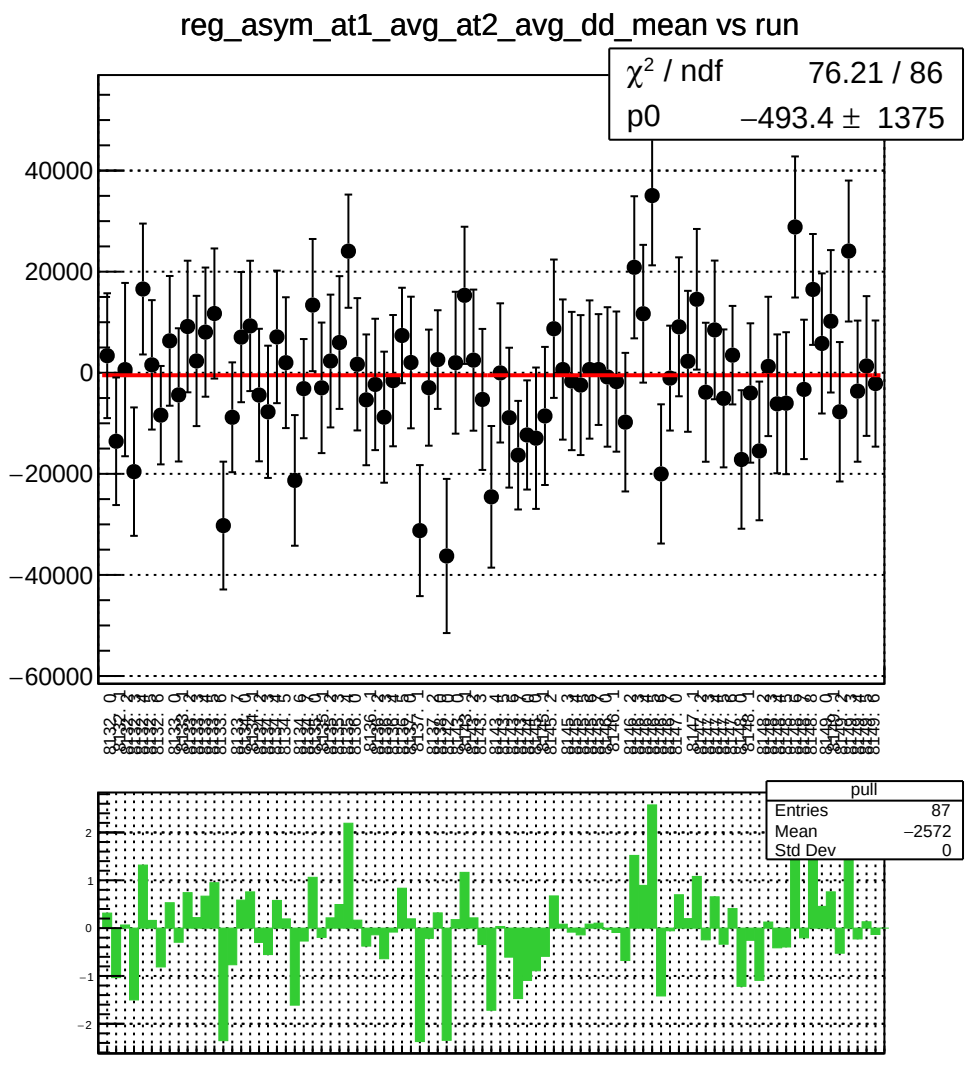

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.65 / 86
p0 0.009433 ± 0.03161
pull
Entries 87
Mean 144.6
Std Dev 0
pull1D
Entries 87
Mean −0.02086
Std Dev 0.9978

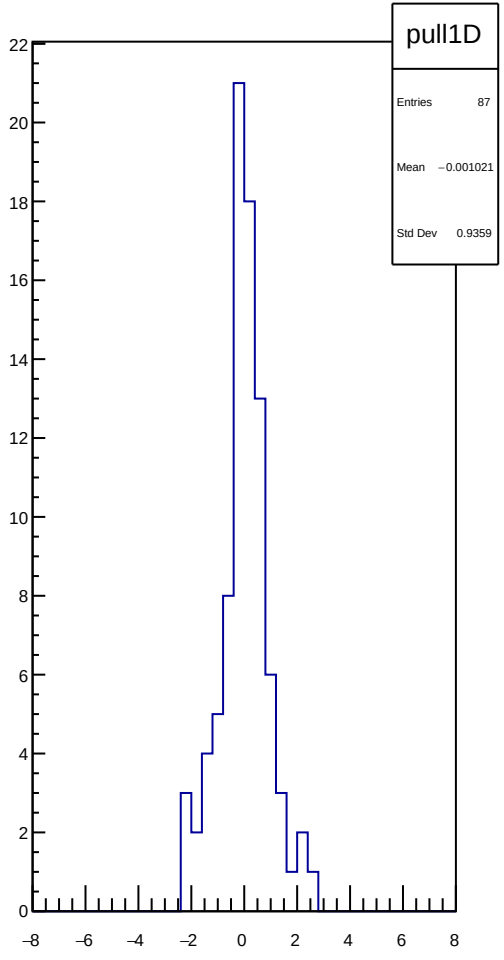

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.441e+05 / 86
p0 27.14 ± 0.02235
140
120
100
80
60
40
20

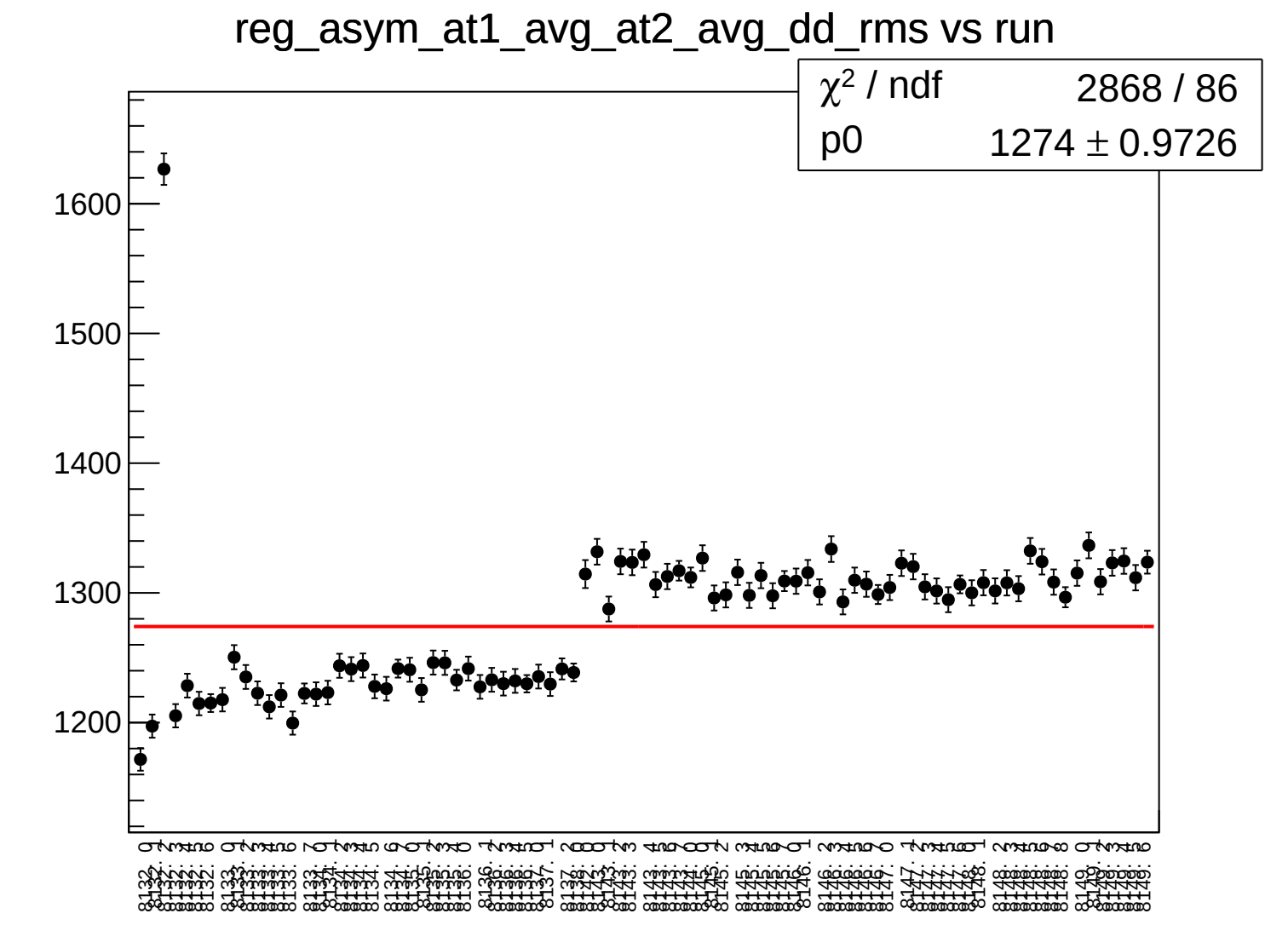

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 73.61 / 86
p0 −1.459e−14 ± 5.294e−14
pull
Entries 87
Mean −66.08
Std Dev 0

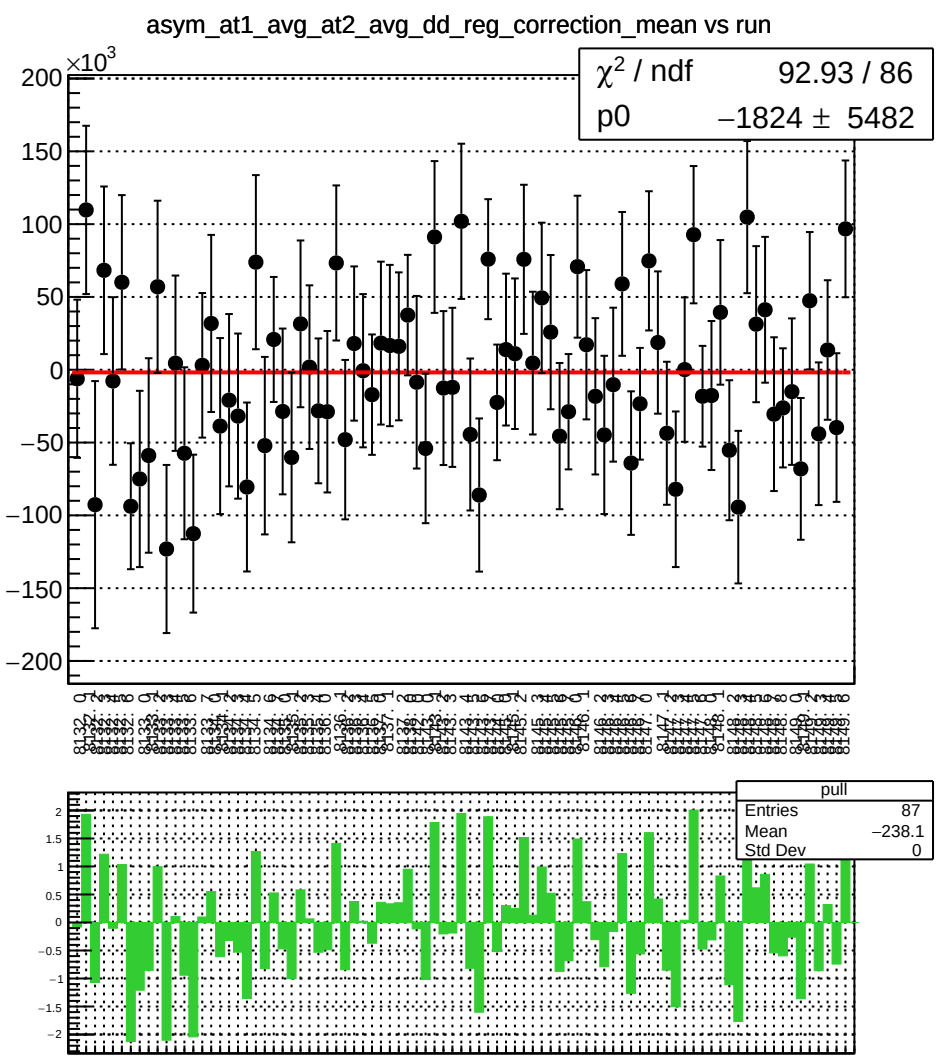

pull1D
Entries 87
Mean −0.02896
Std Dev 0.9194

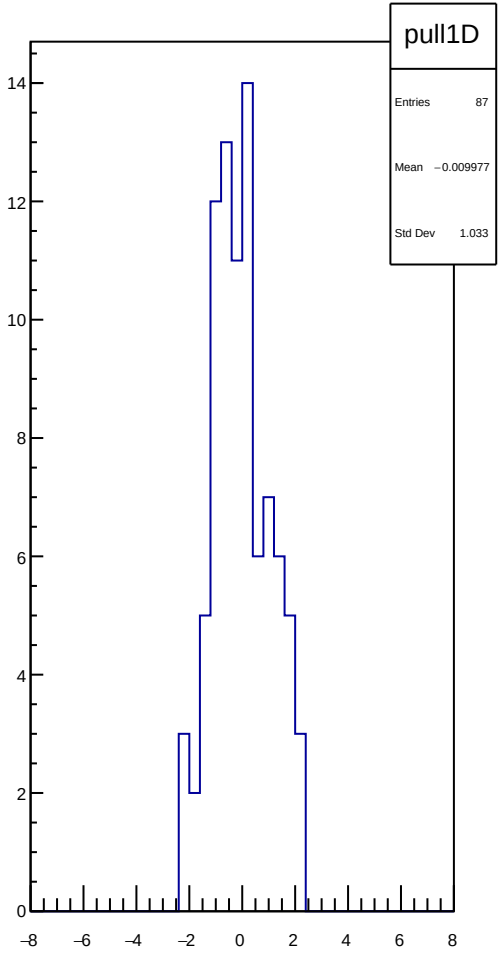

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.868e+05 / 86
p0 3.983e−11 ± 3.744e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

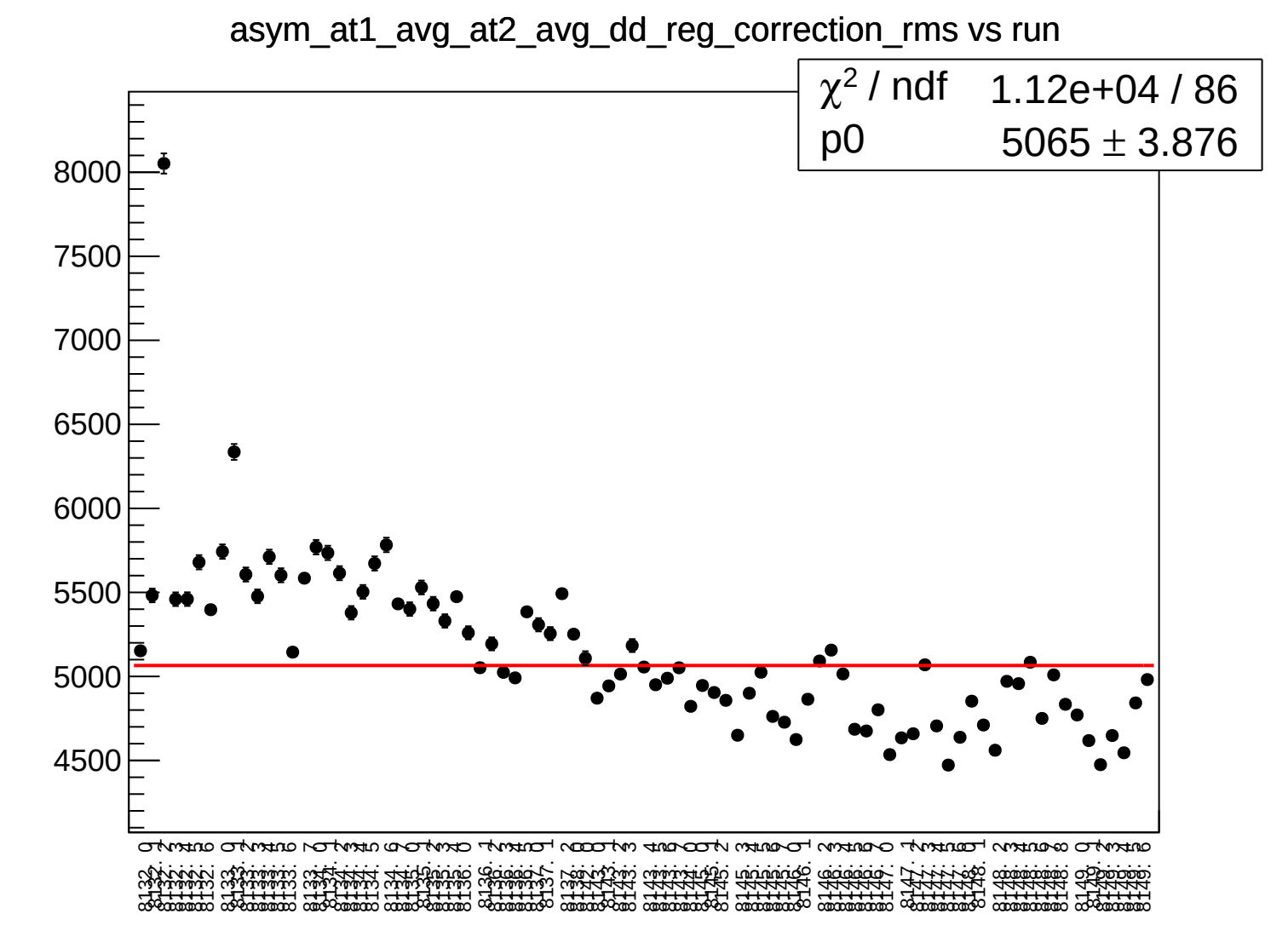

reg_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 76.21 / 86
p0 −493.4 ± 1375
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −2572
Std Dev 0
2
1
0
−1
−2

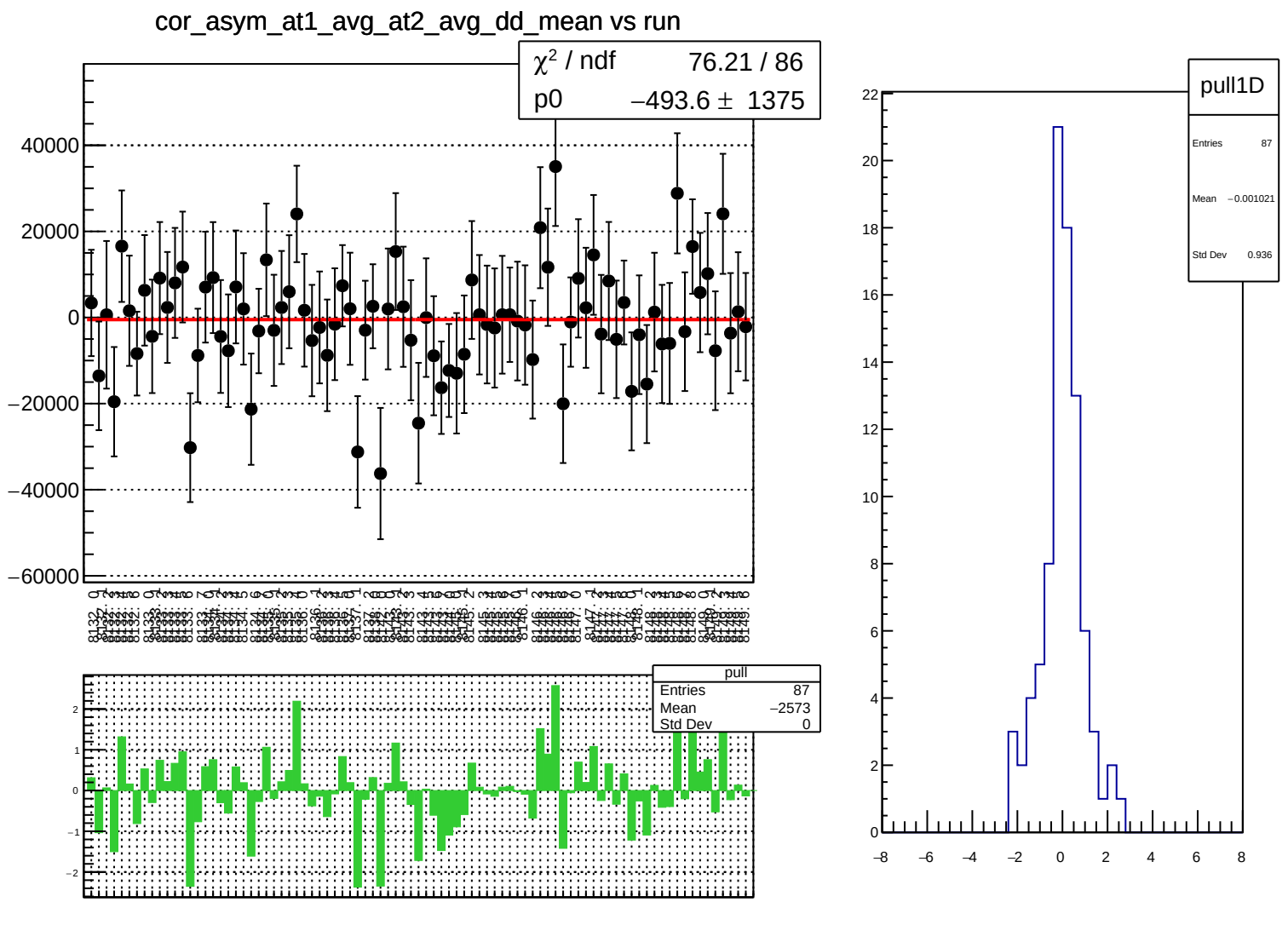

pull1D
Entries 87
Mean −0.001021
Std Dev 0.9359
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

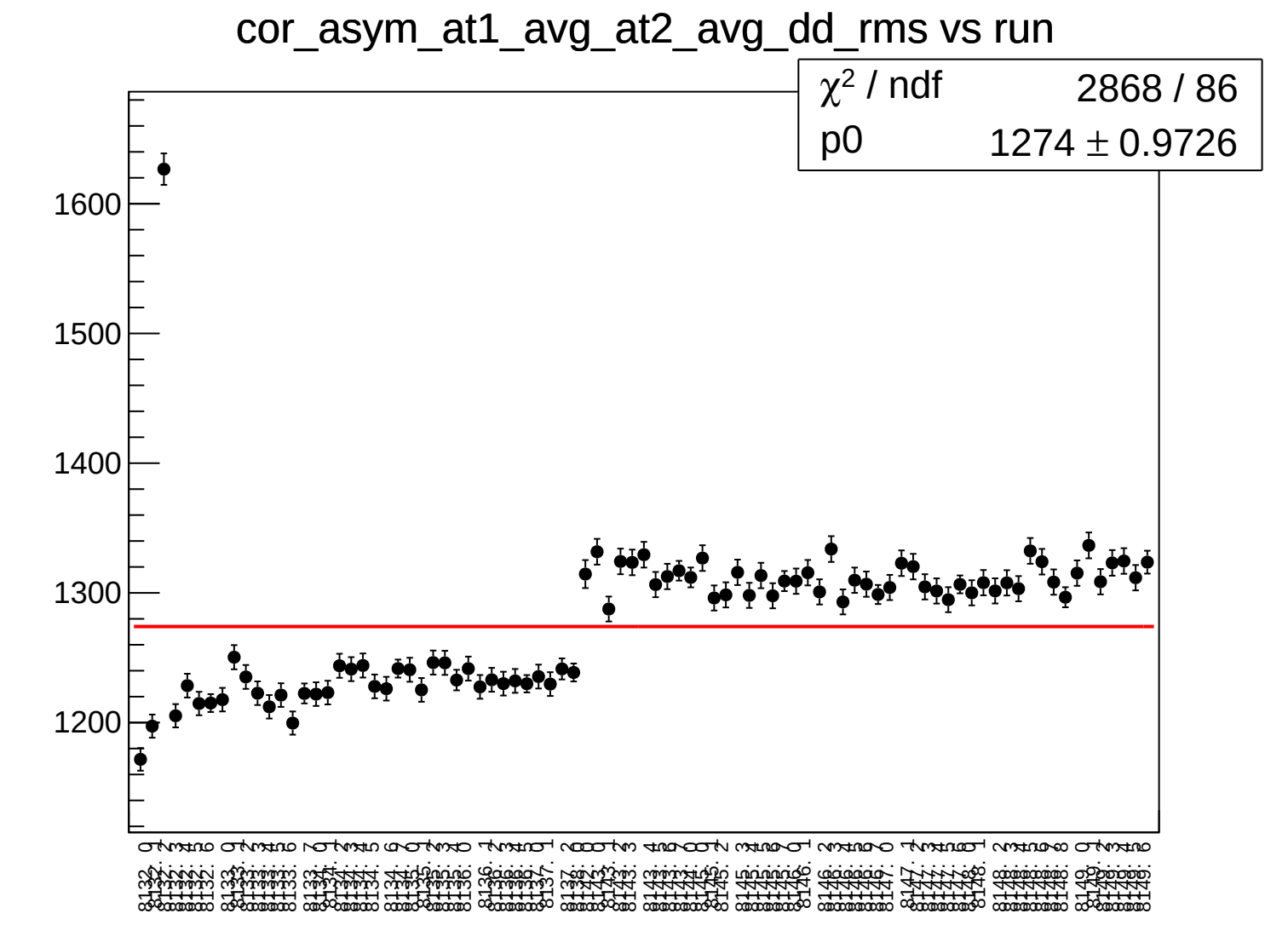

reg_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 2868 / 86
p0 1274 ± 0.9726
1600
1500
1400
1300
1200

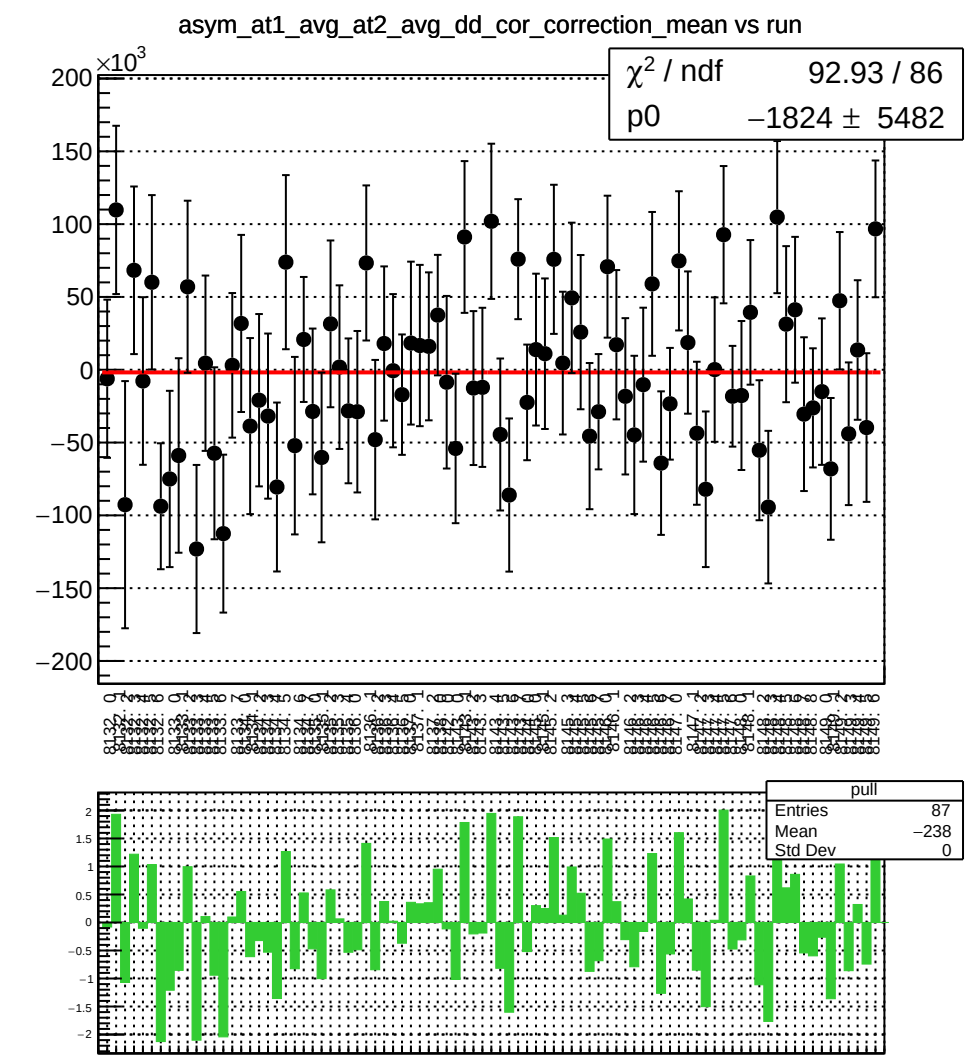

asym_at1_avg_at2_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 92.93 / 86
p0 −1824 ± 5482
pull
Entries 87
Mean −238.1
Std Dev 0

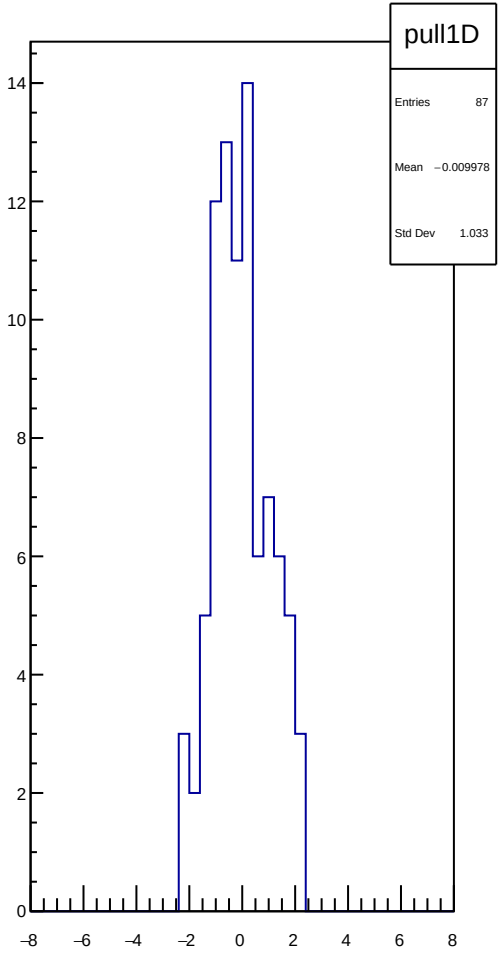

pull1D
Entries 87
Mean −0.009977
Std Dev 1.033

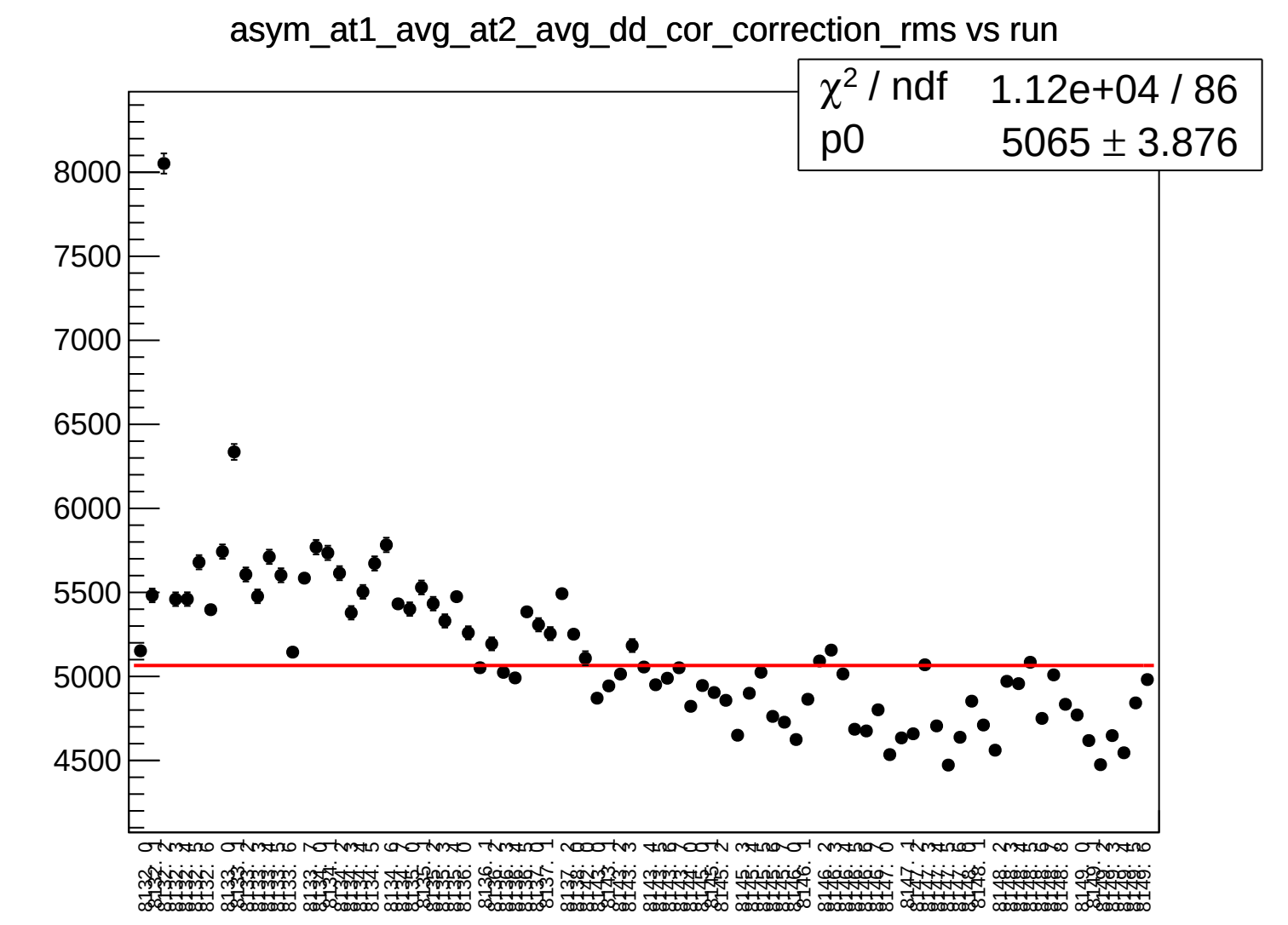

asym_at1_avg_at2_avg_dd_reg_correction_rms vs run
χ² / ndf 1.12e+04 / 86
p0 5065 ± 3.876
8000
7500
7000
6500
6000
5500
5000
4500

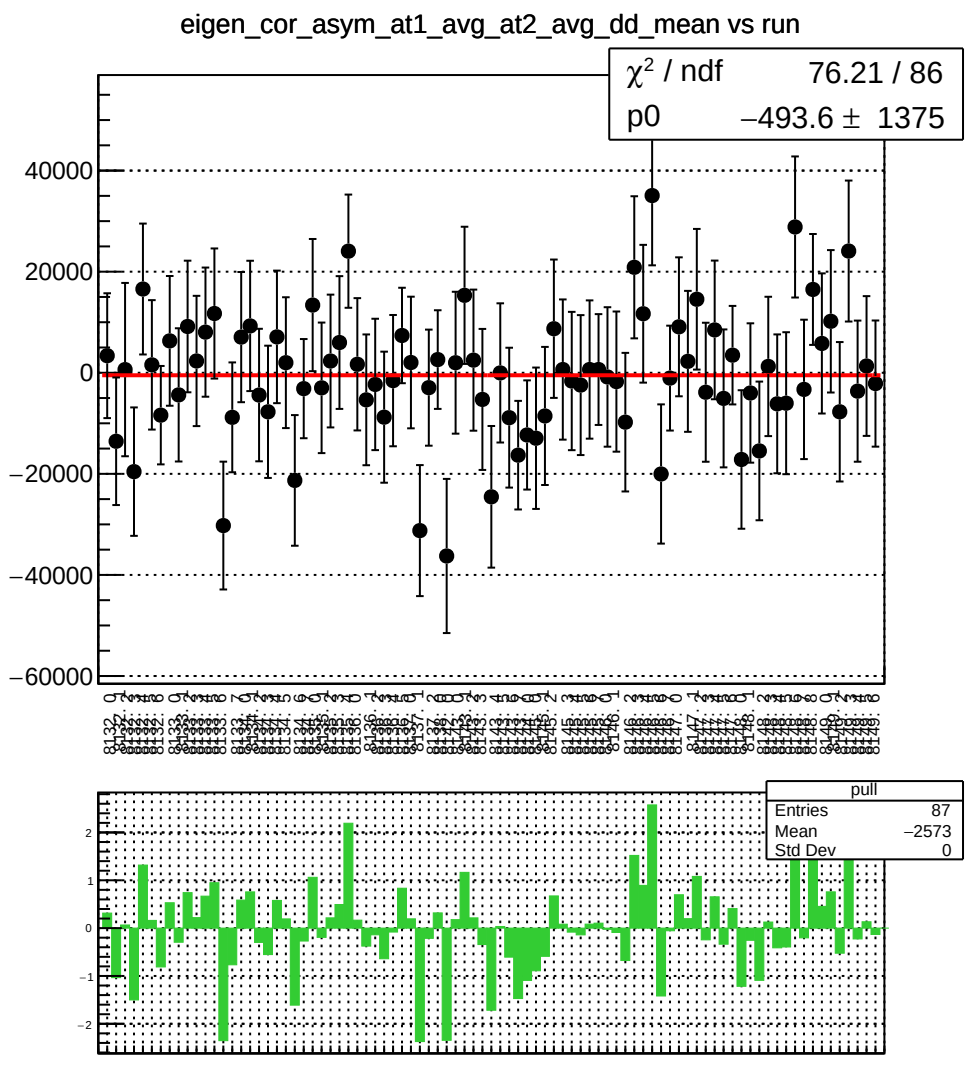

cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 76.21 / 86
p0 −493.6 ± 1375
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −2573
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.001021
Std Dev 0.936
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

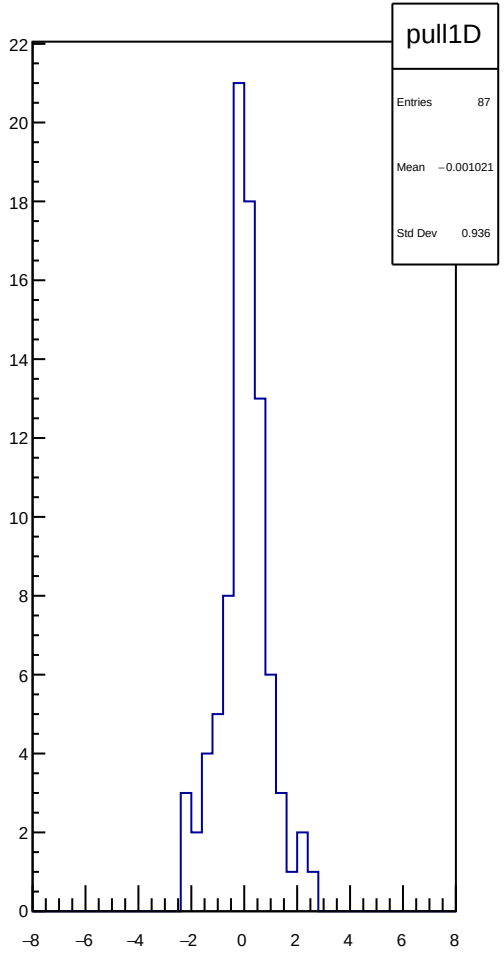

cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 2868 / 86
p0 1274 ± 0.9726
1600
1500
1400
1300
1200

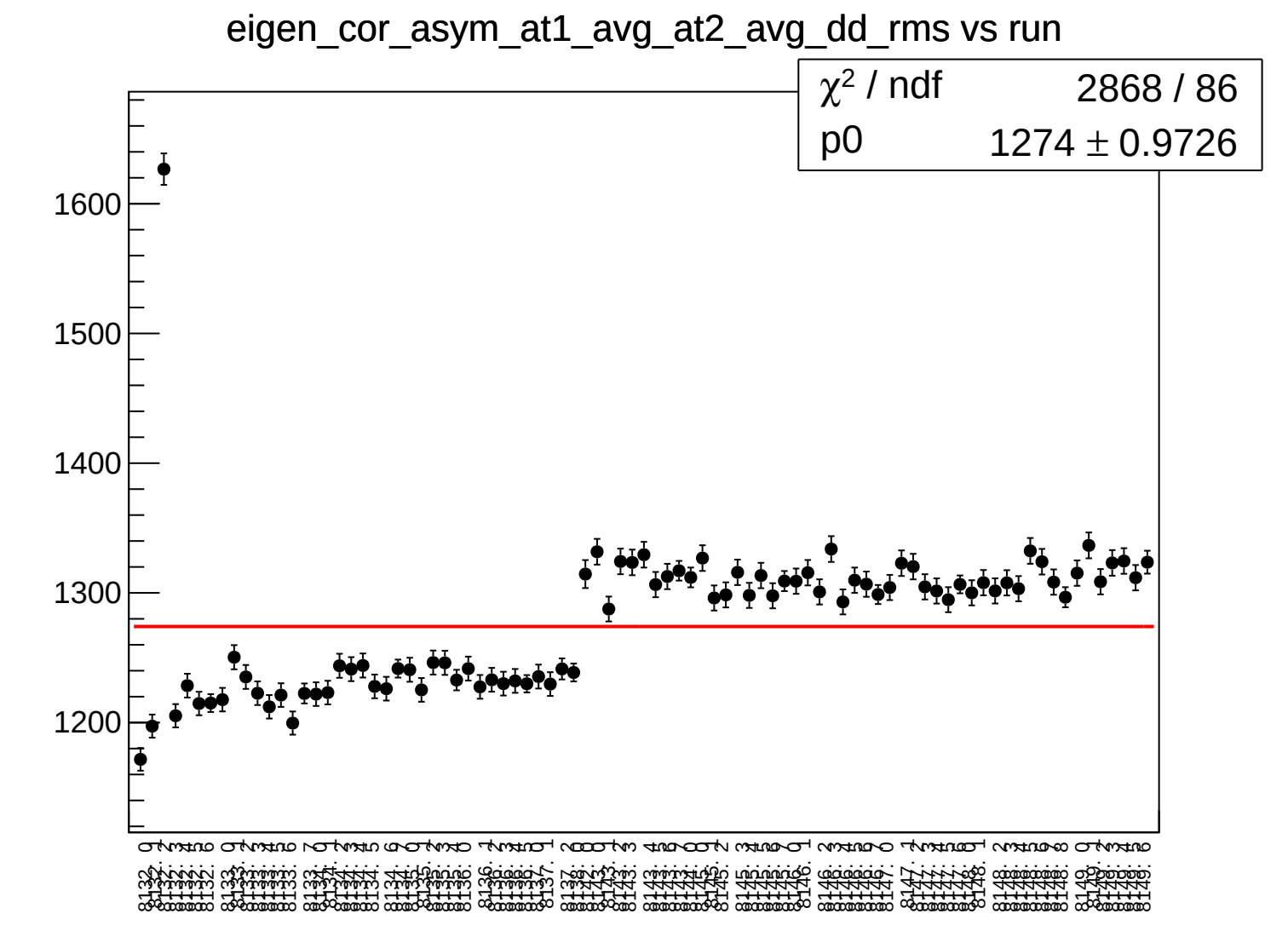

asym_at1_avg_at2_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 92.93 / 86
p0 −1824 ± 5482
pull
Entries 87
Mean −238
Std Dev 0

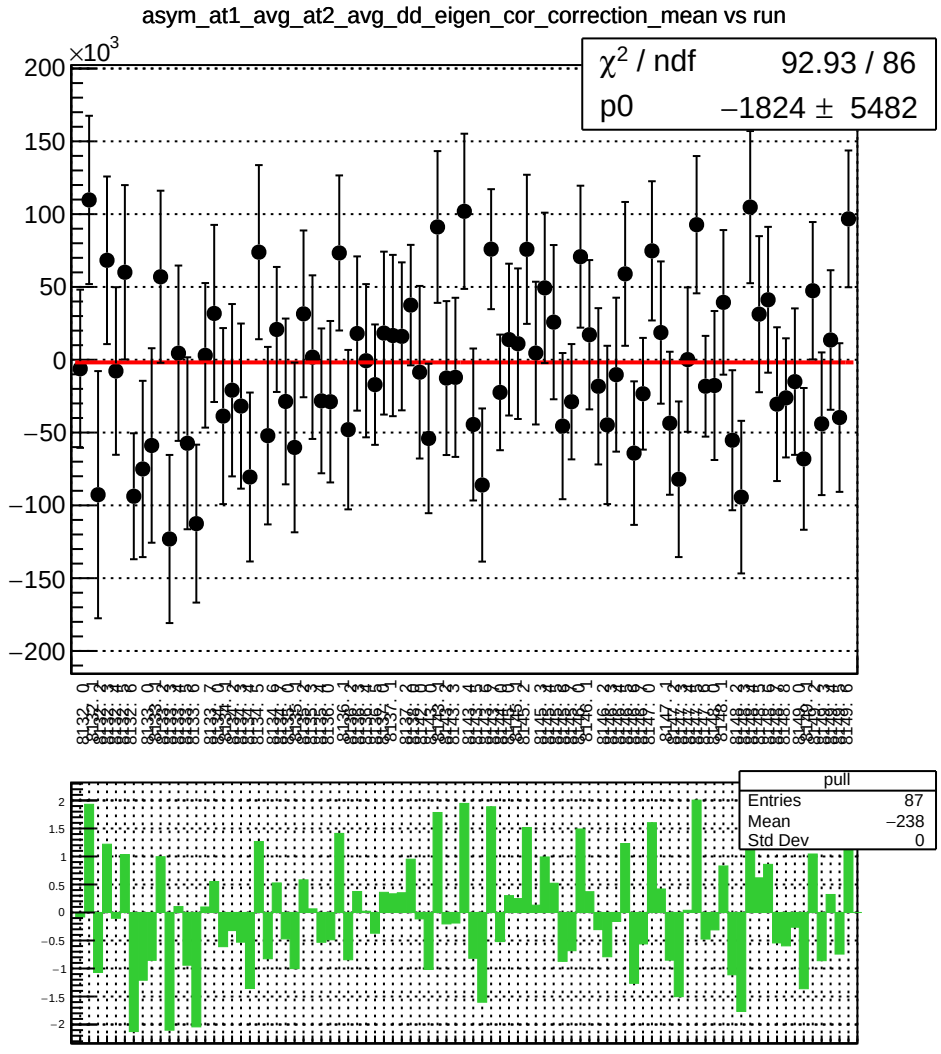

pull1D
Entries 87
Mean −0.009978
Std Dev 1.033

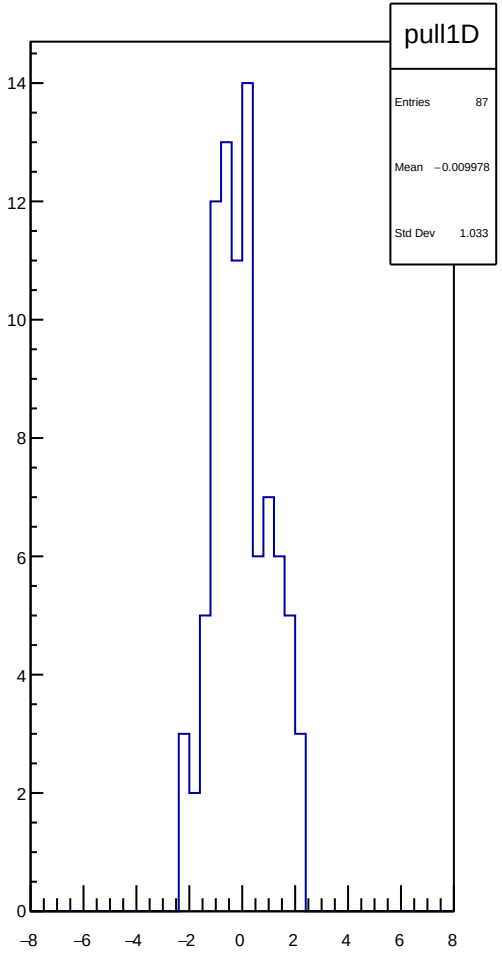

asym_at1_avg_at2_avg_dd_cor_correction_rms vs run
χ² / ndf 1.12e+04 / 86
p0 5065 ± 3.876
8000
7500
7000
6500
6000
5500
5000
4500


eigen_cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 76.21 / 86
p0 −493.6 ± 1375
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −2573
Std Dev 0
2
1
0
−1
−2

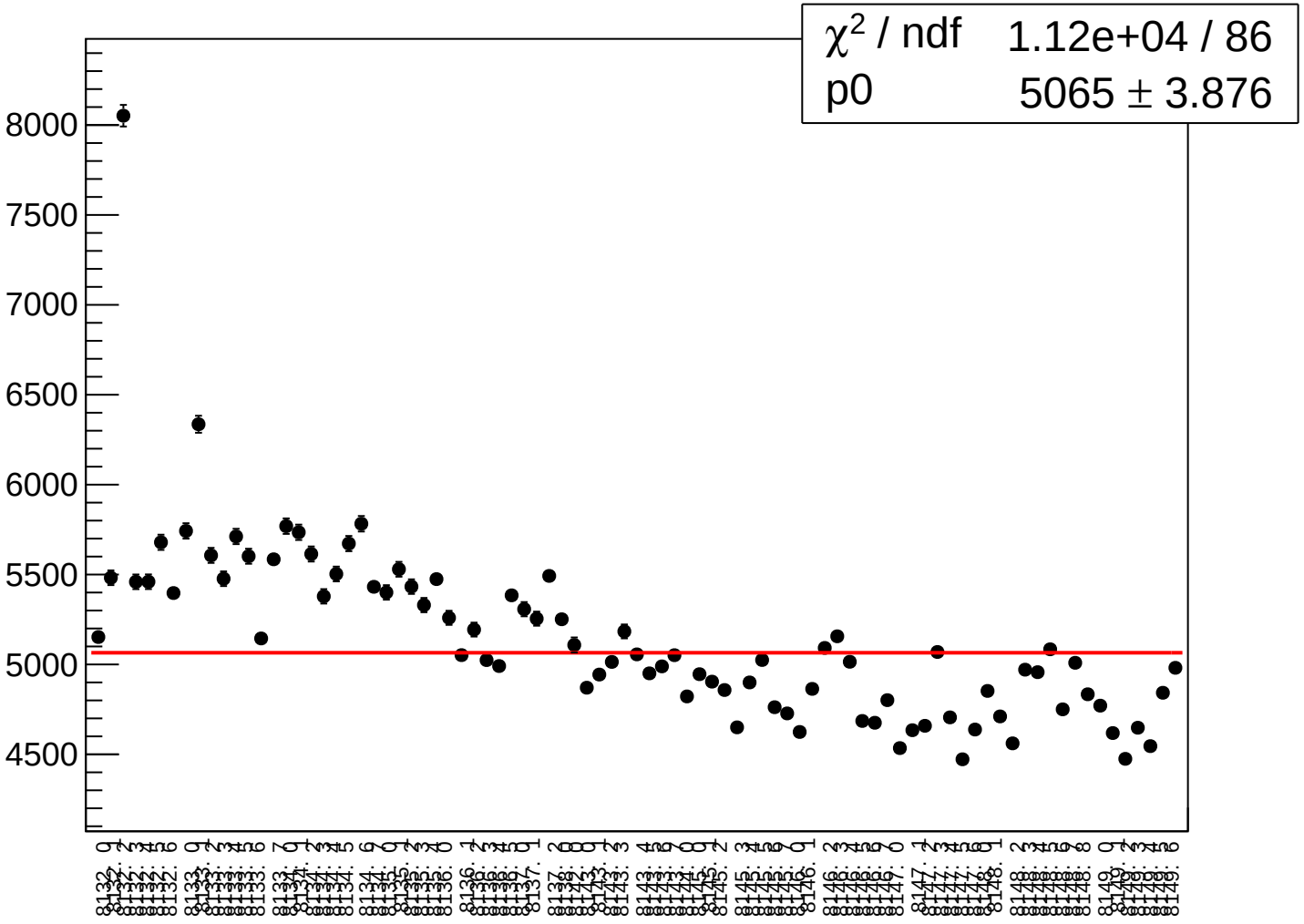

pull1D
Entries 87
Mean −0.001021
Std Dev 0.936
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

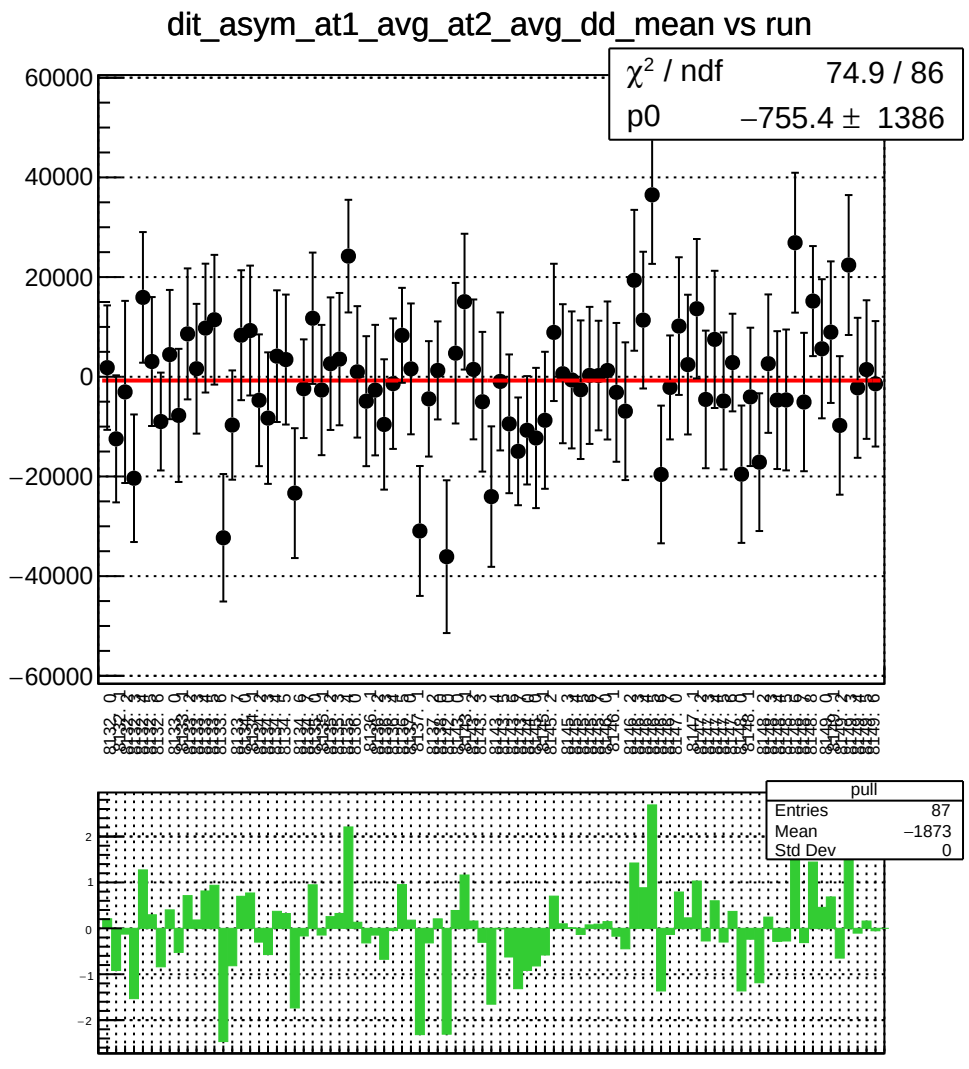

eigen_cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 2868 / 86
p0 1274 ± 0.9726
1600
1500
1400
1300
1200

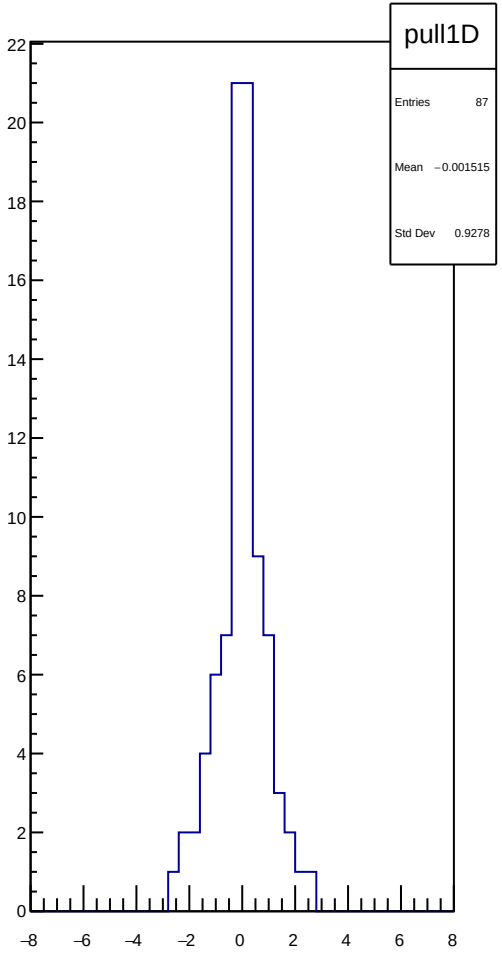

asym_at1_avg_at2_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 92.93 / 86
p0 −1824 ± 5482
pull
Entries 87
Mean −238
Std Dev 0

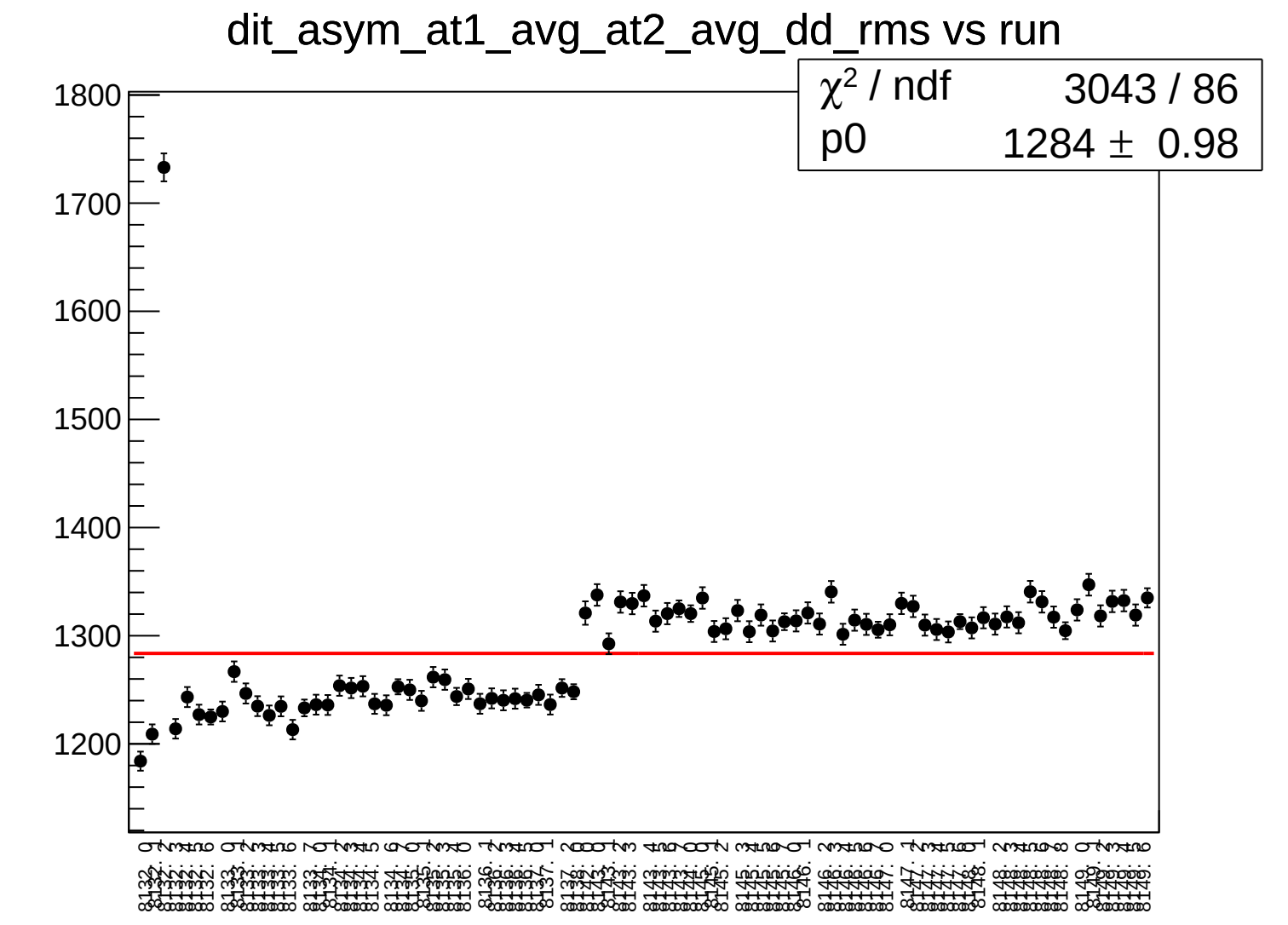

pull1D
Entries 87
Mean −0.009978
Std Dev 1.033

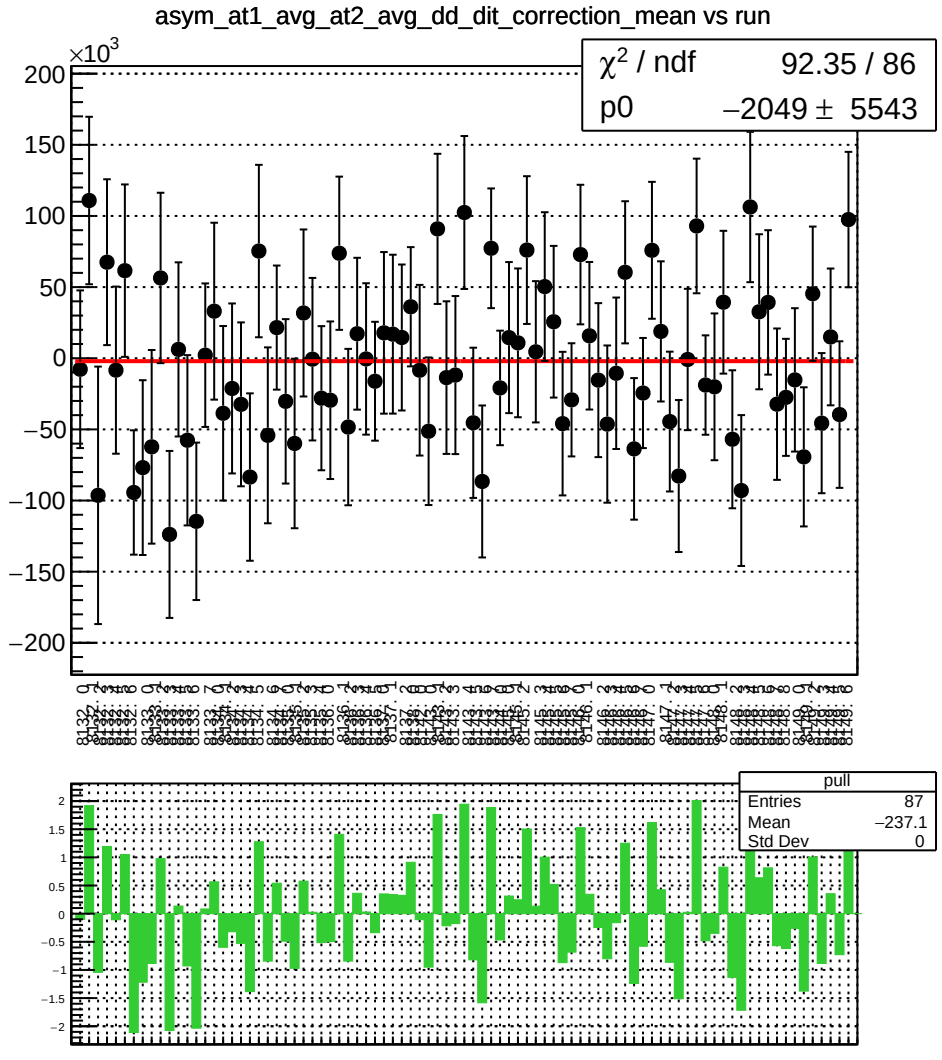
asym_at1_avg_at2_avg_dd_eigen_cor_correction_rms vs run

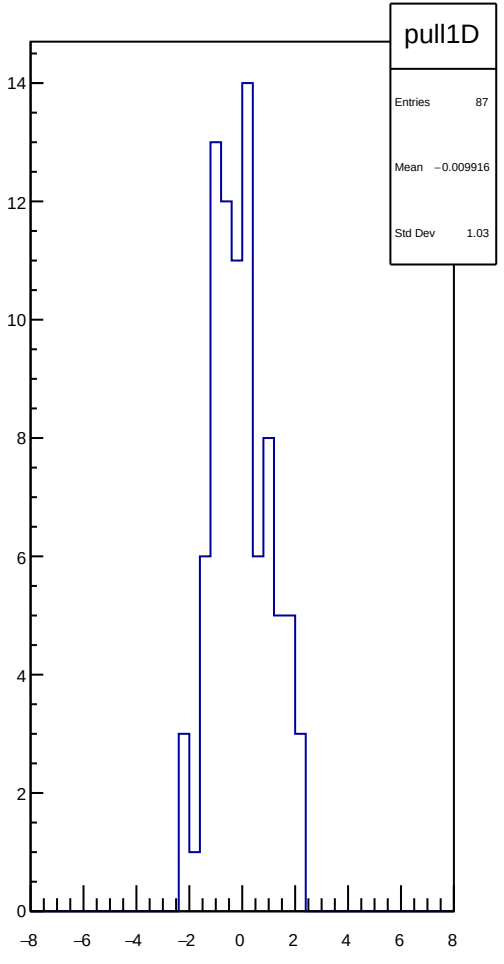


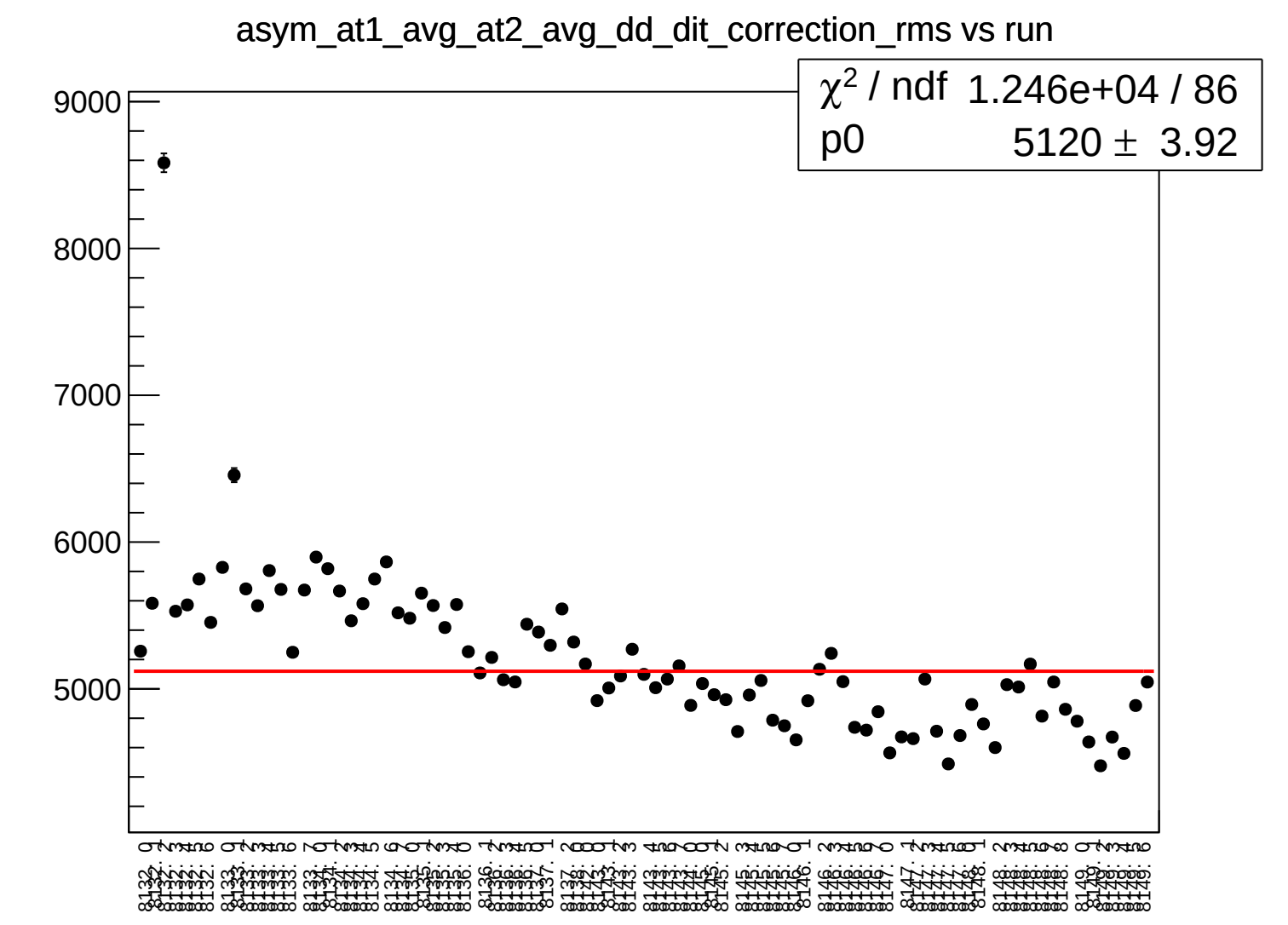

dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 74.9 / 86
p0 −755.4 ± 1386
pull
Entries 87
Mean −1873
Std Dev 0

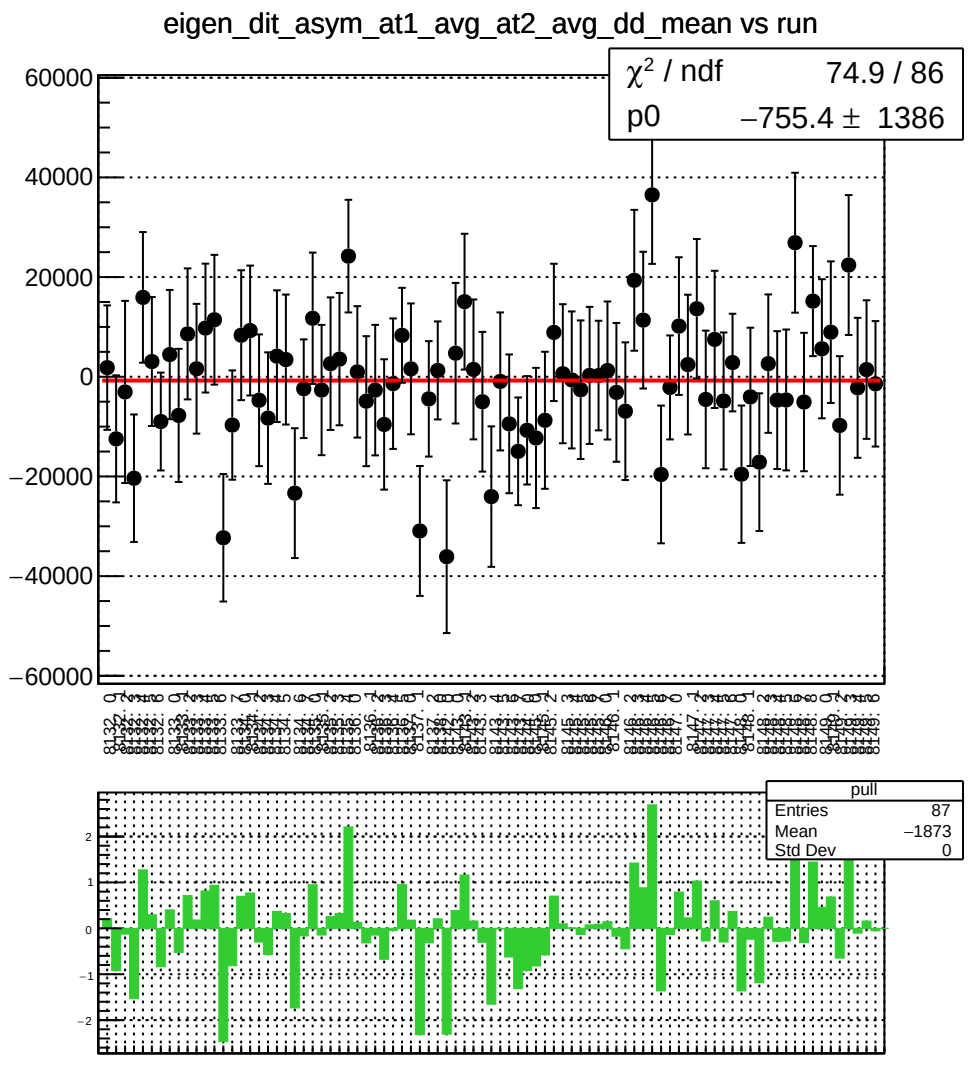

pull1D
Entries 87
Mean −0.001515
Std Dev 0.9278

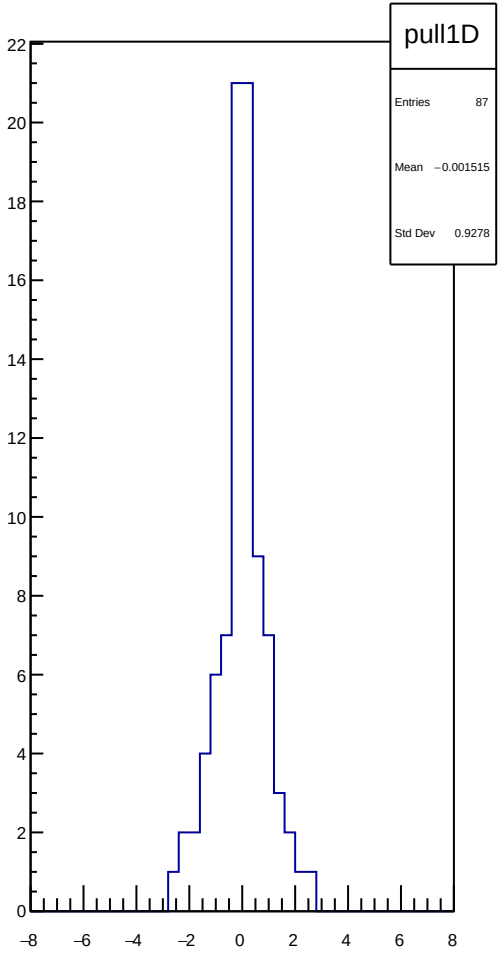

dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 3043 / 86
p0 1284 ± 0.98
1800
1700
1600
1500
1400
1300
1200

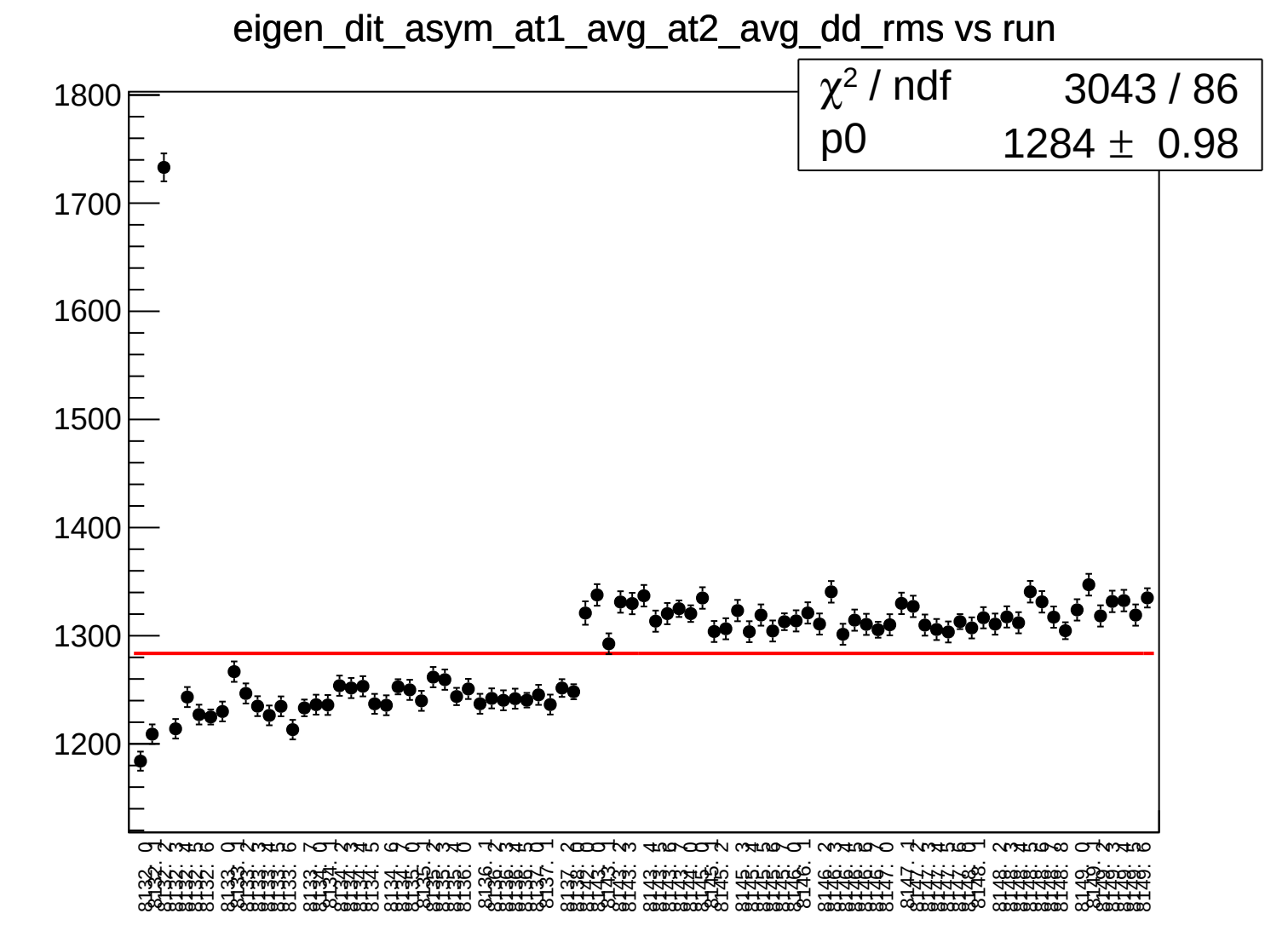

asym_at1_avg_at2_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 92.35 / 86
p0 −2049 ± 5543
pull
Entries 87
Mean −237.1
Std Dev 0

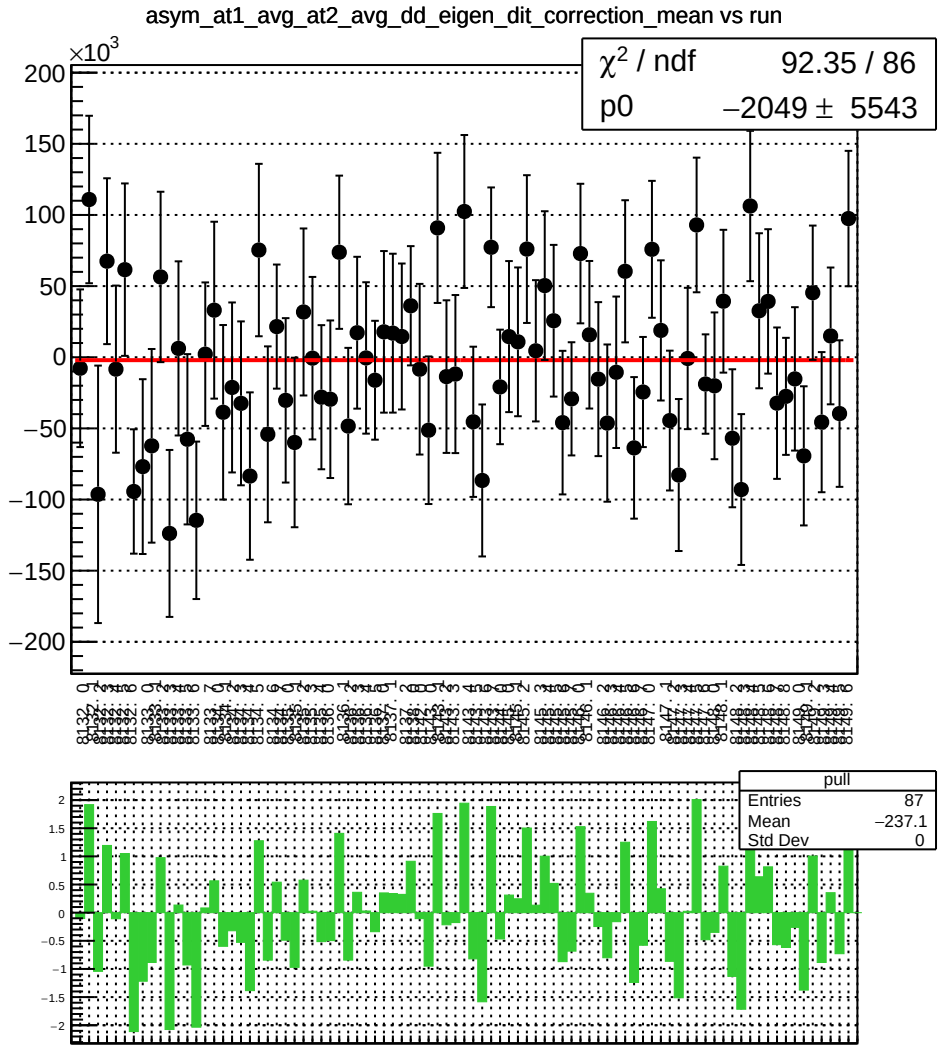

pull1D
Entries 87
Mean −0.009916
Std Dev 1.03

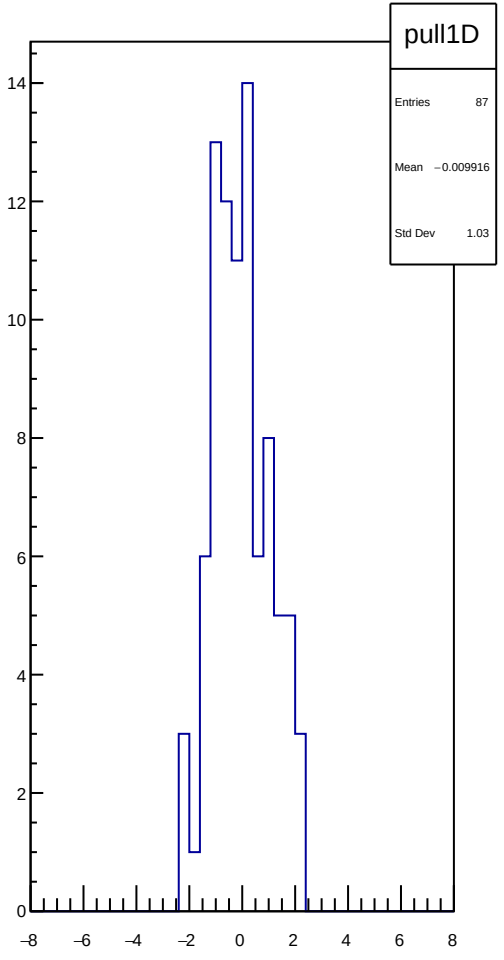

asym_at1_avg_at2_avg_dd_dit_correction_rms vs run
χ² / ndf 1.246e+04 / 86
p0 5120 ± 3.92
9000
8000
7000
6000
5000

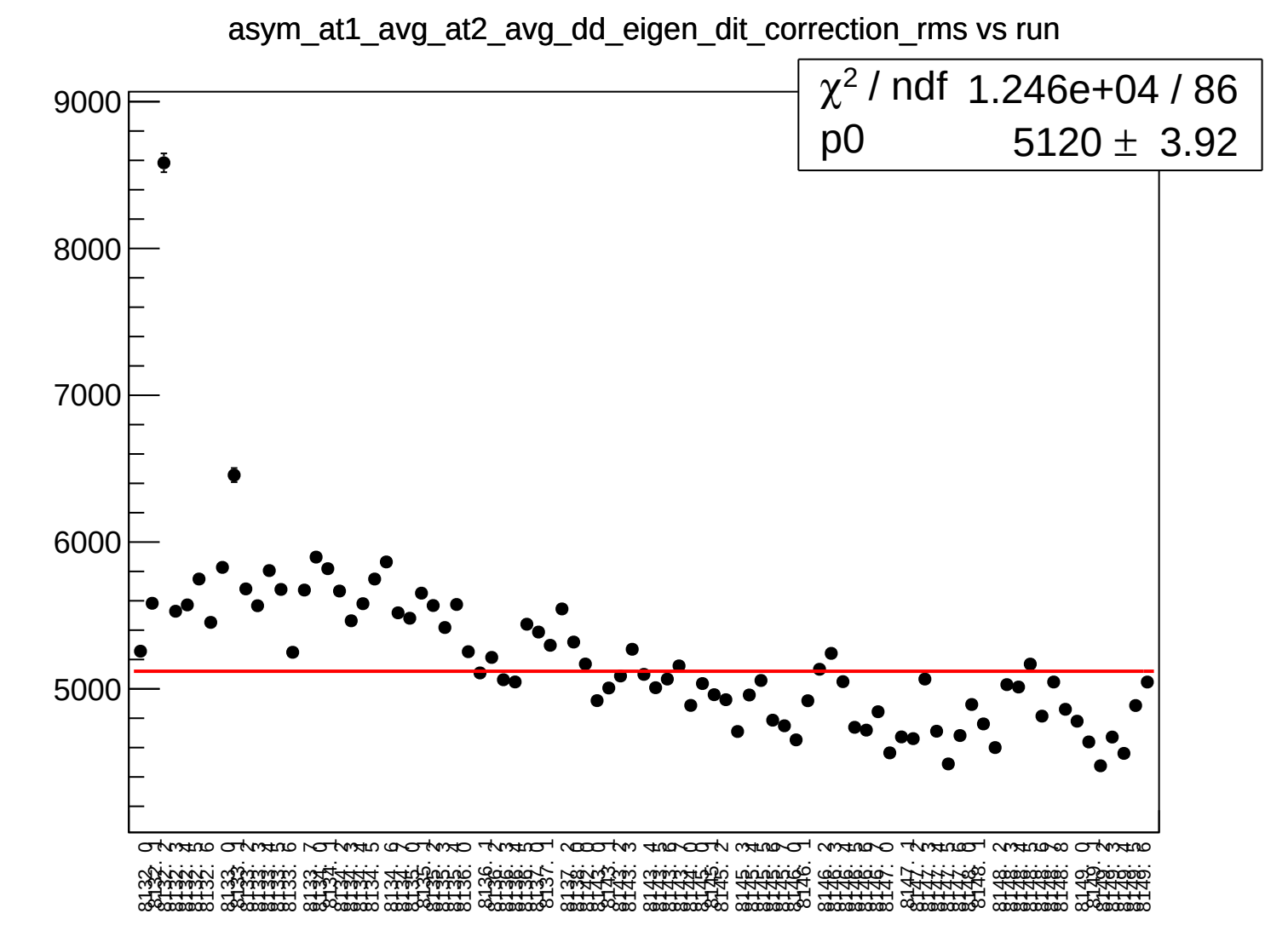

eigen_dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 74.9 / 86
p0 −755.4 ± 1386
pull
Entries 87
Mean −1873
Std Dev 0

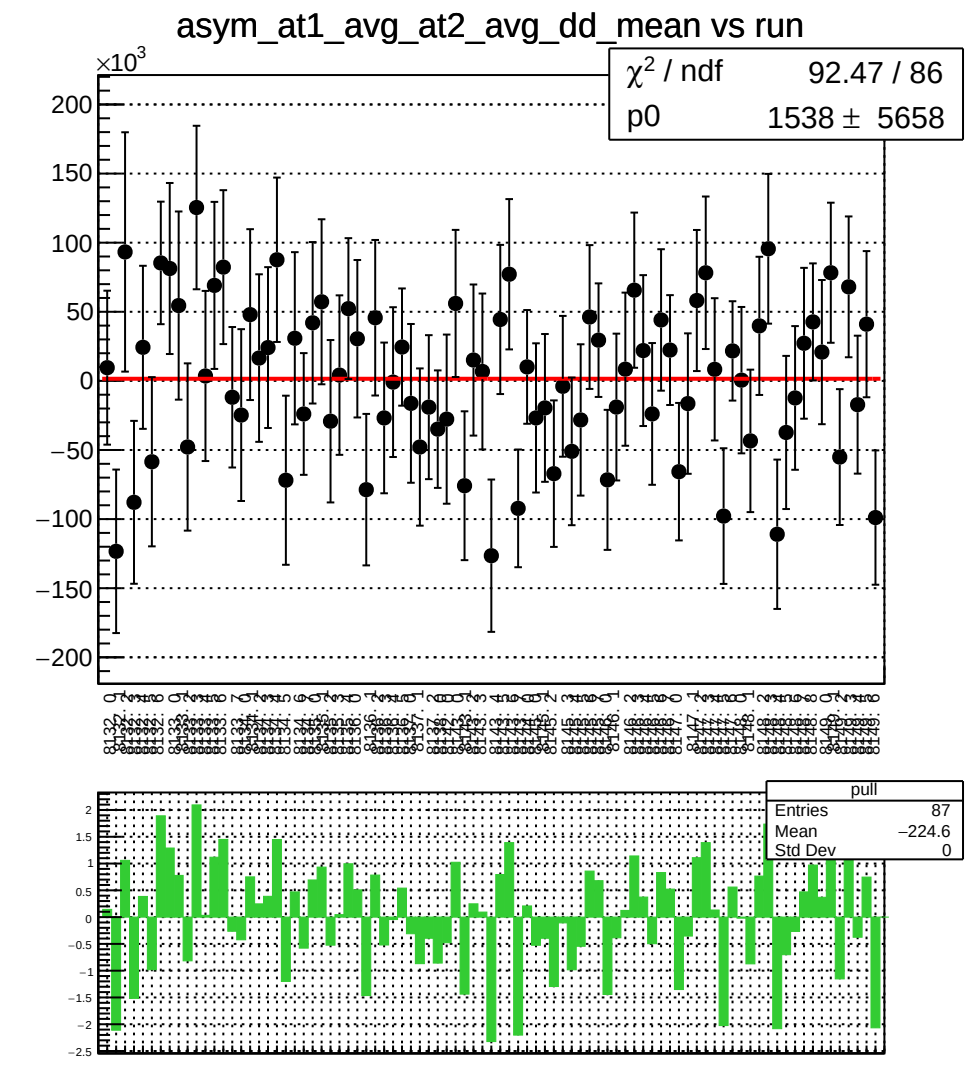

pull1D
Entries 87
Mean −0.001515
Std Dev 0.9278

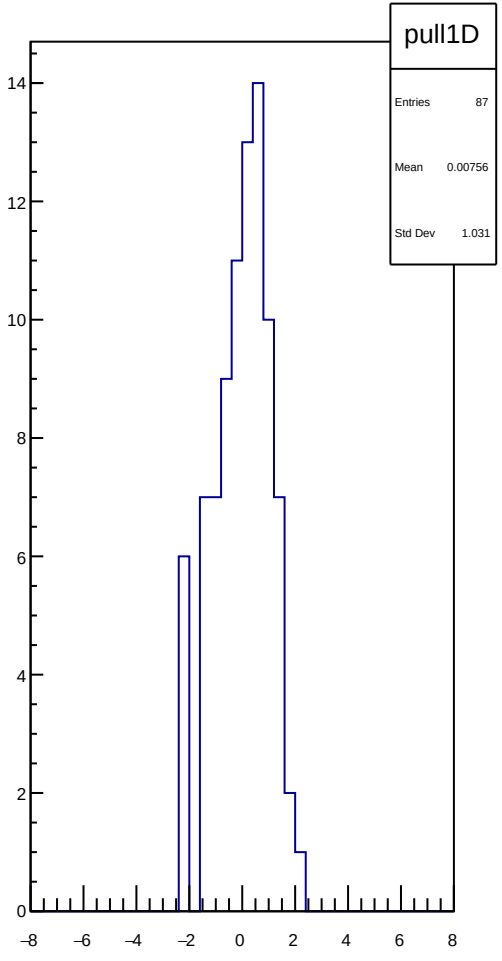

eigen_dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 3043 / 86
p0 1284 ± 0.98
1800
1700
1600
1500
1400
1300
1200


asym_at1_avg_at2_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 92.35 / 86
p0 −2049 ± 5543
pull
Entries 87
Mean −237.1
Std Dev 0

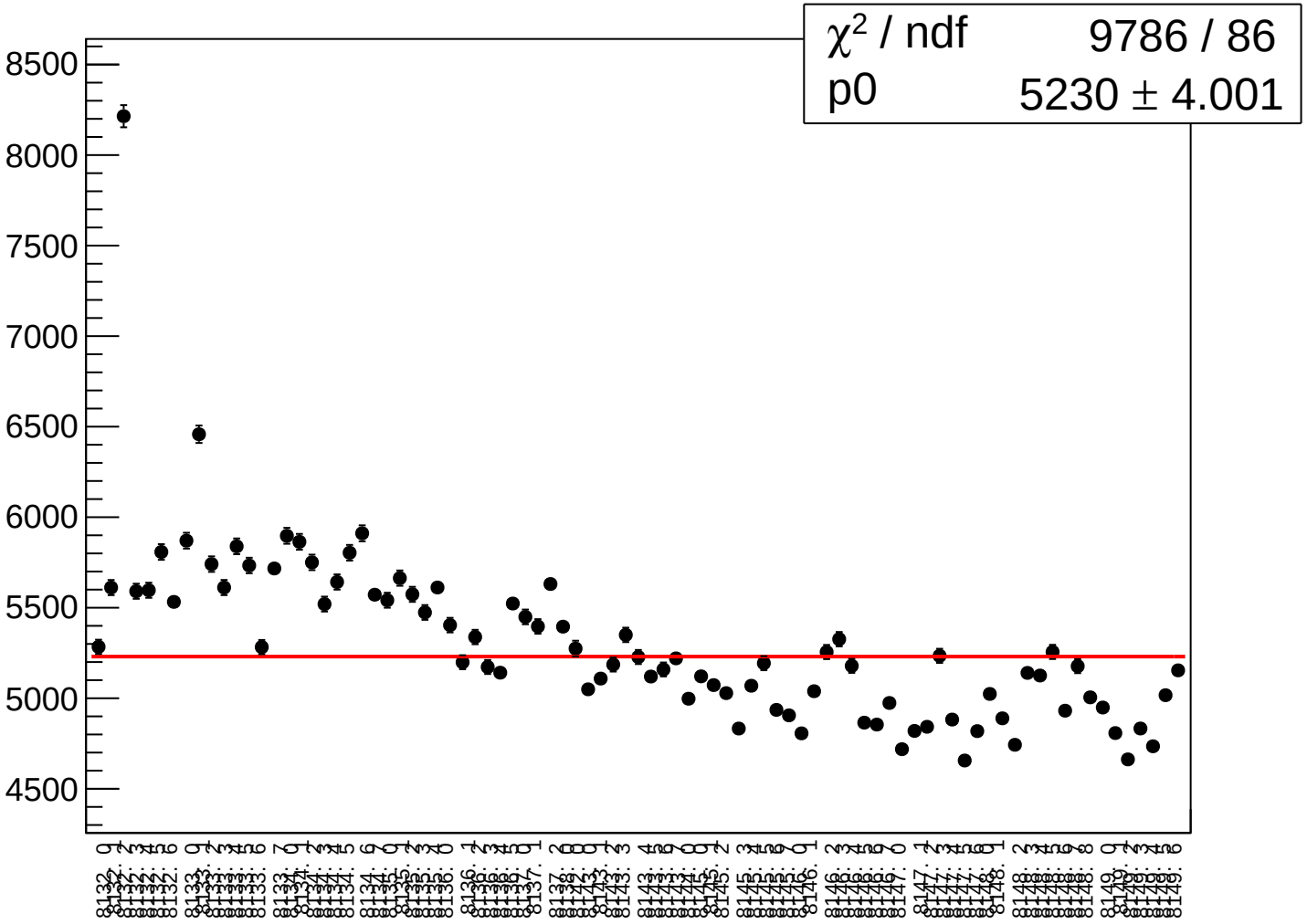

pull1D
Entries 87
Mean −0.009916
Std Dev 1.03

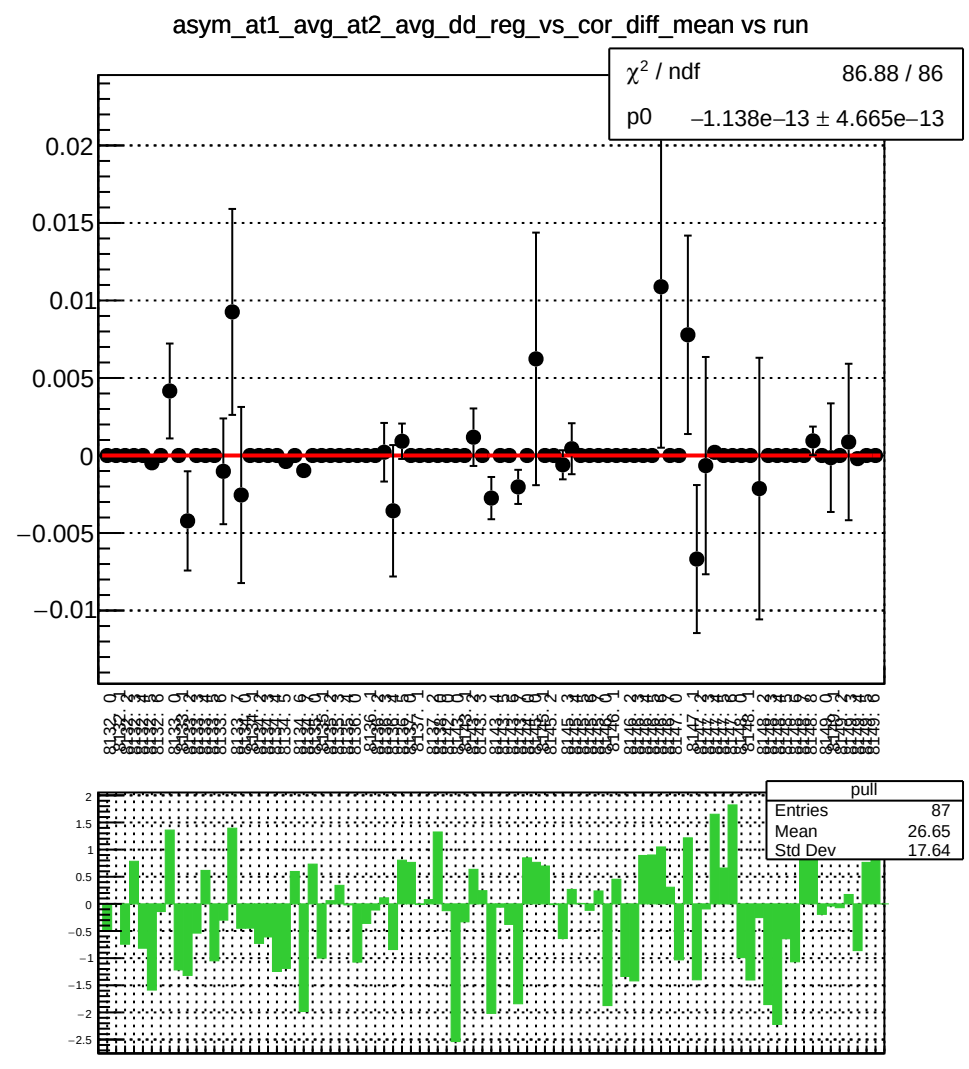

asym_at1_avg_at2_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.246e+04 / 86
p0 5120 ± 3.92
9000
8000
7000
6000
5000

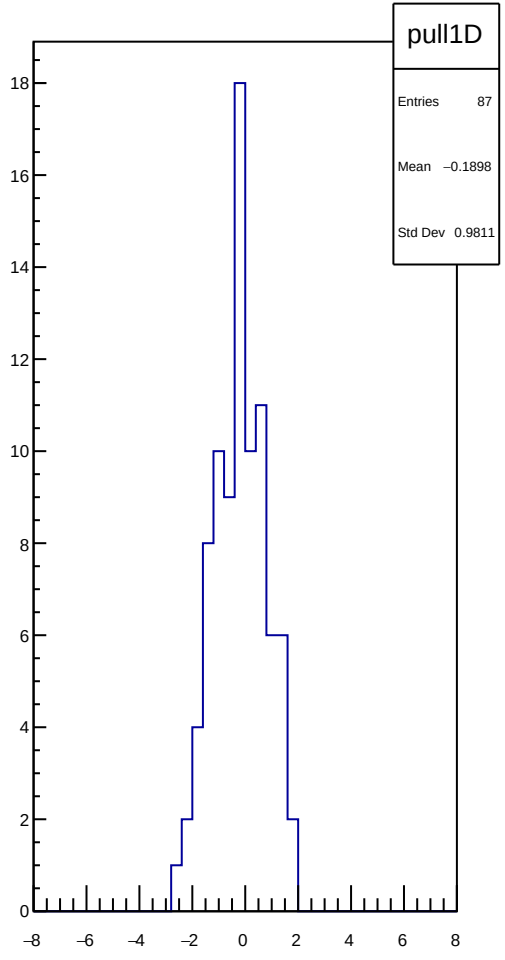

asym_at1_avg_at2_avg_dd_mean vs run
×10^3
χ² / ndf 92.47 / 86
p0 1538 ± 5658
pull
Entries 87
Mean −224.6
Std Dev 0

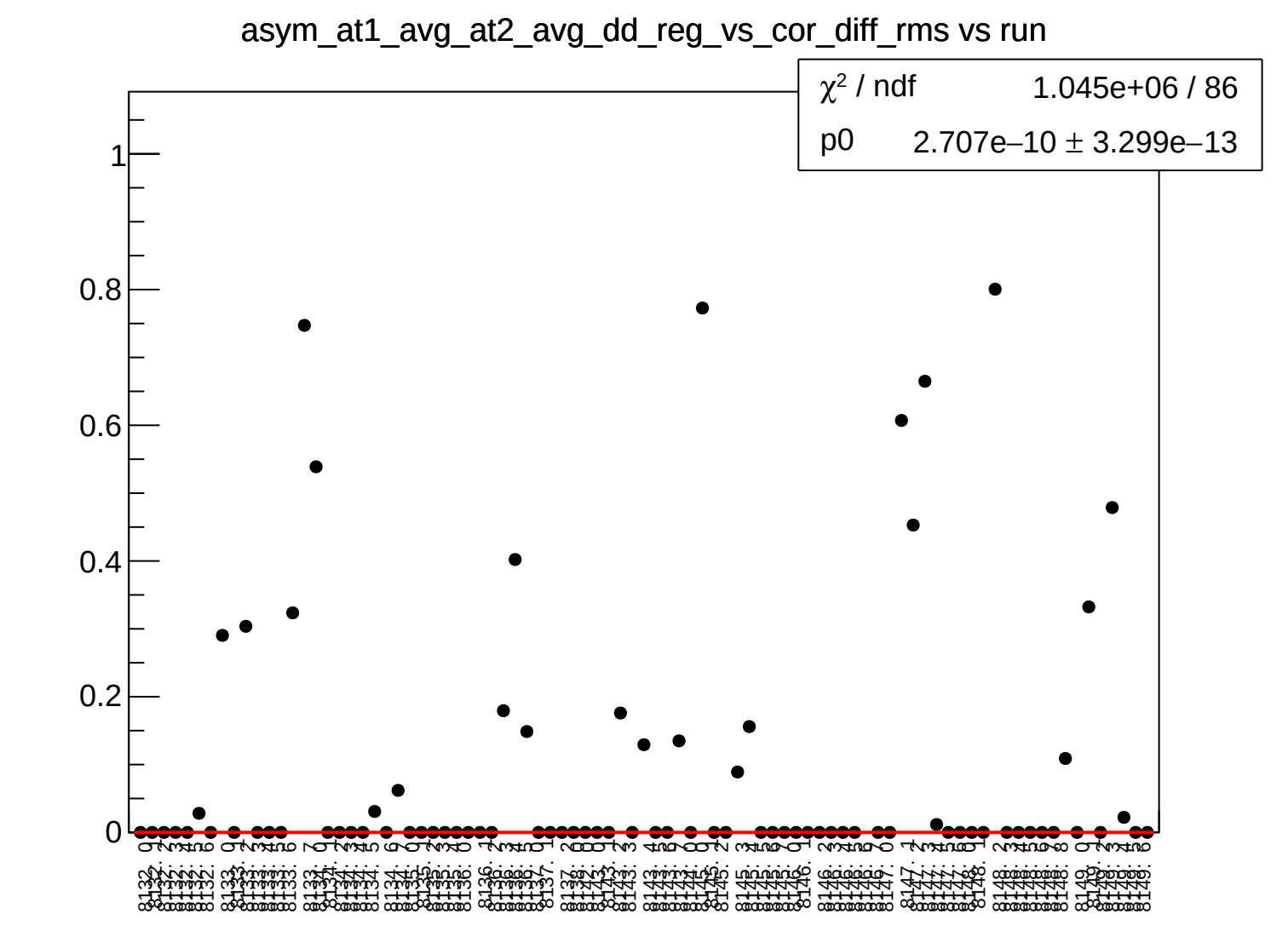

pull1D
Entries 87
Mean 0.00756
Std Dev 1.031

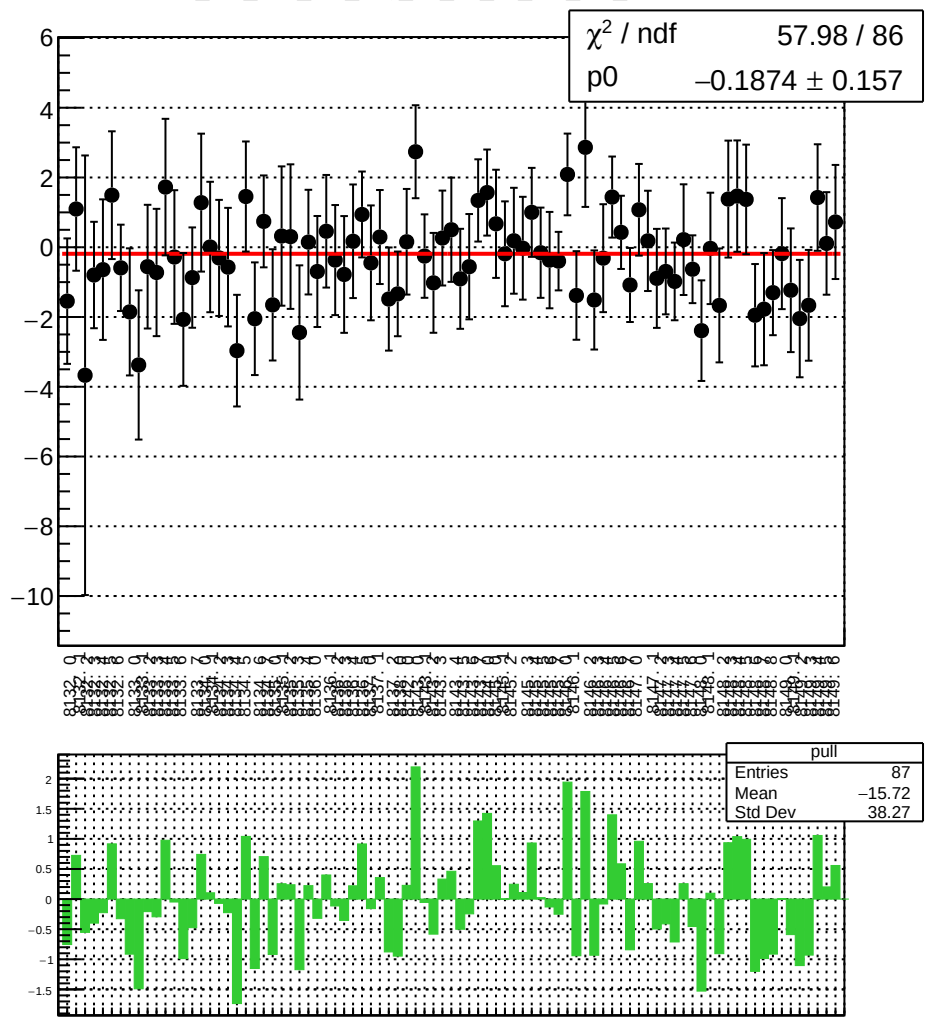
asym_at1_avg_at2_avg_dd_rms vs run

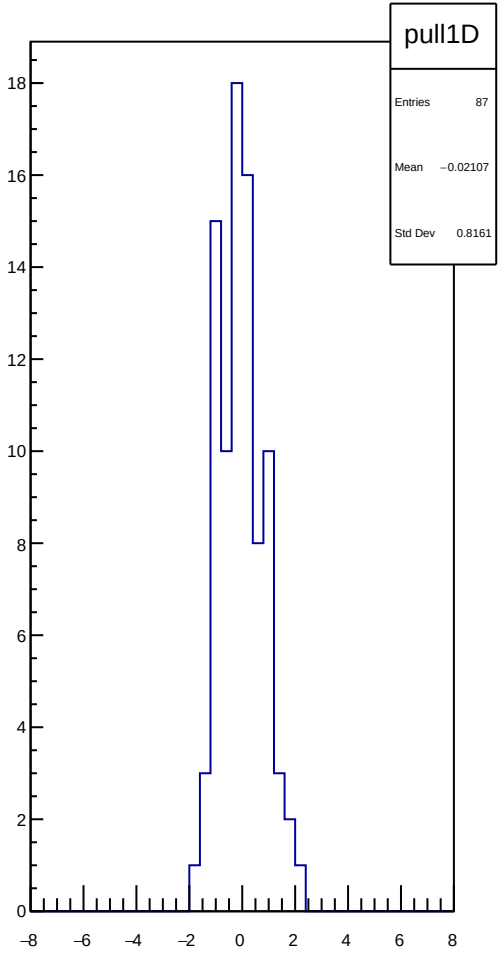


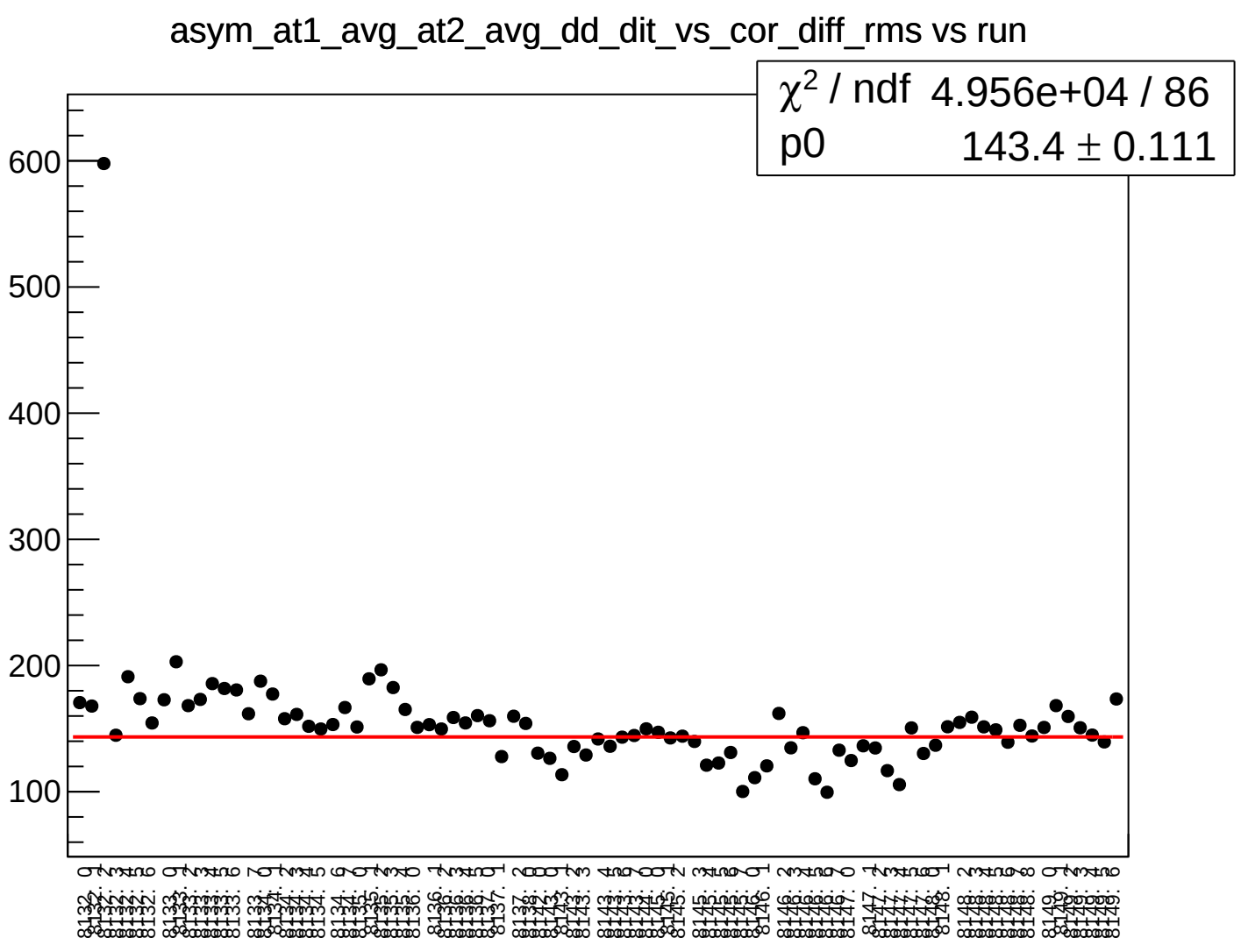

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 86.88 / 86
p0 −1.138e−13 ± 4.665e−13
pull
Entries 87
Mean 26.65
Std Dev 17.64

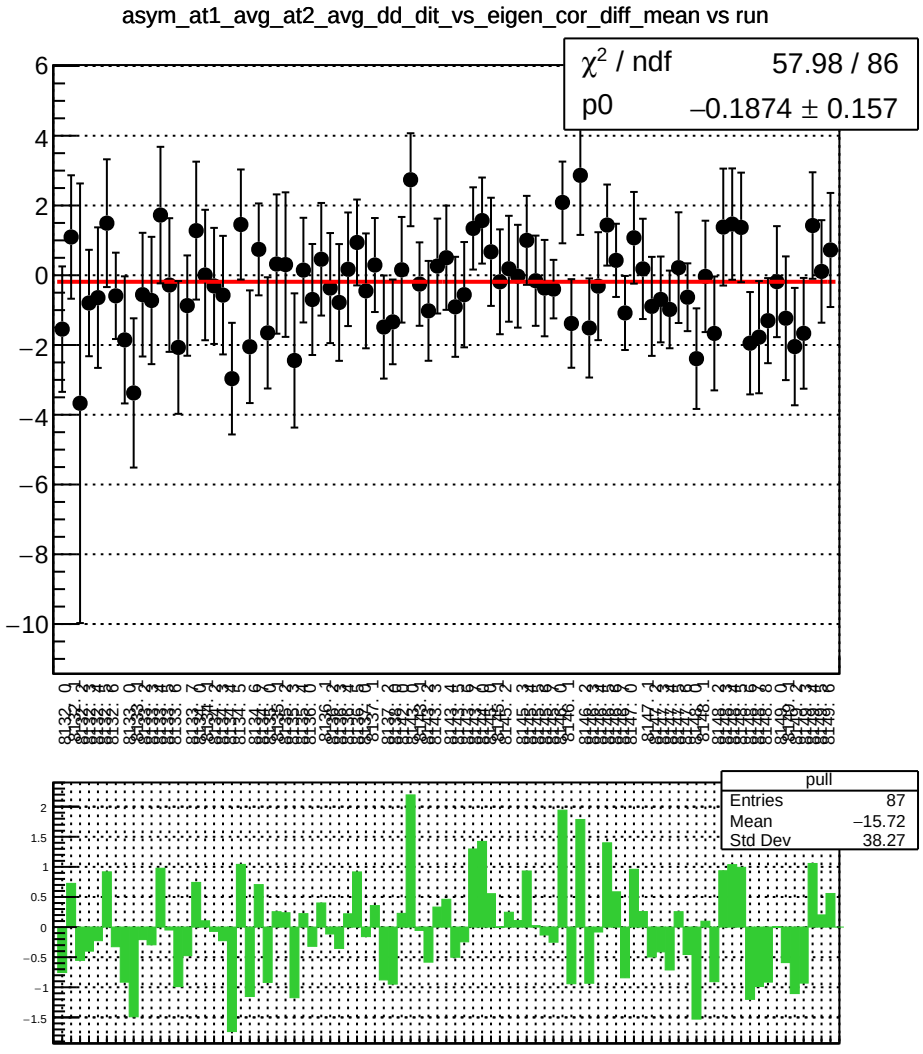

pull1D
Entries 87
Mean −0.1898
Std Dev 0.9811

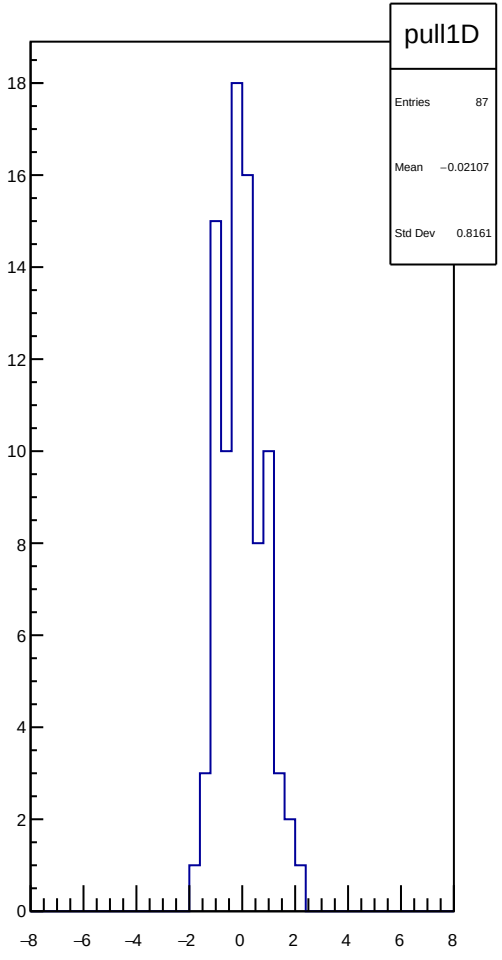

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.045e+06 / 86
p0 2.707e−10 ± 3.299e−13
1
0.8
0.6
0.4
0.2
0

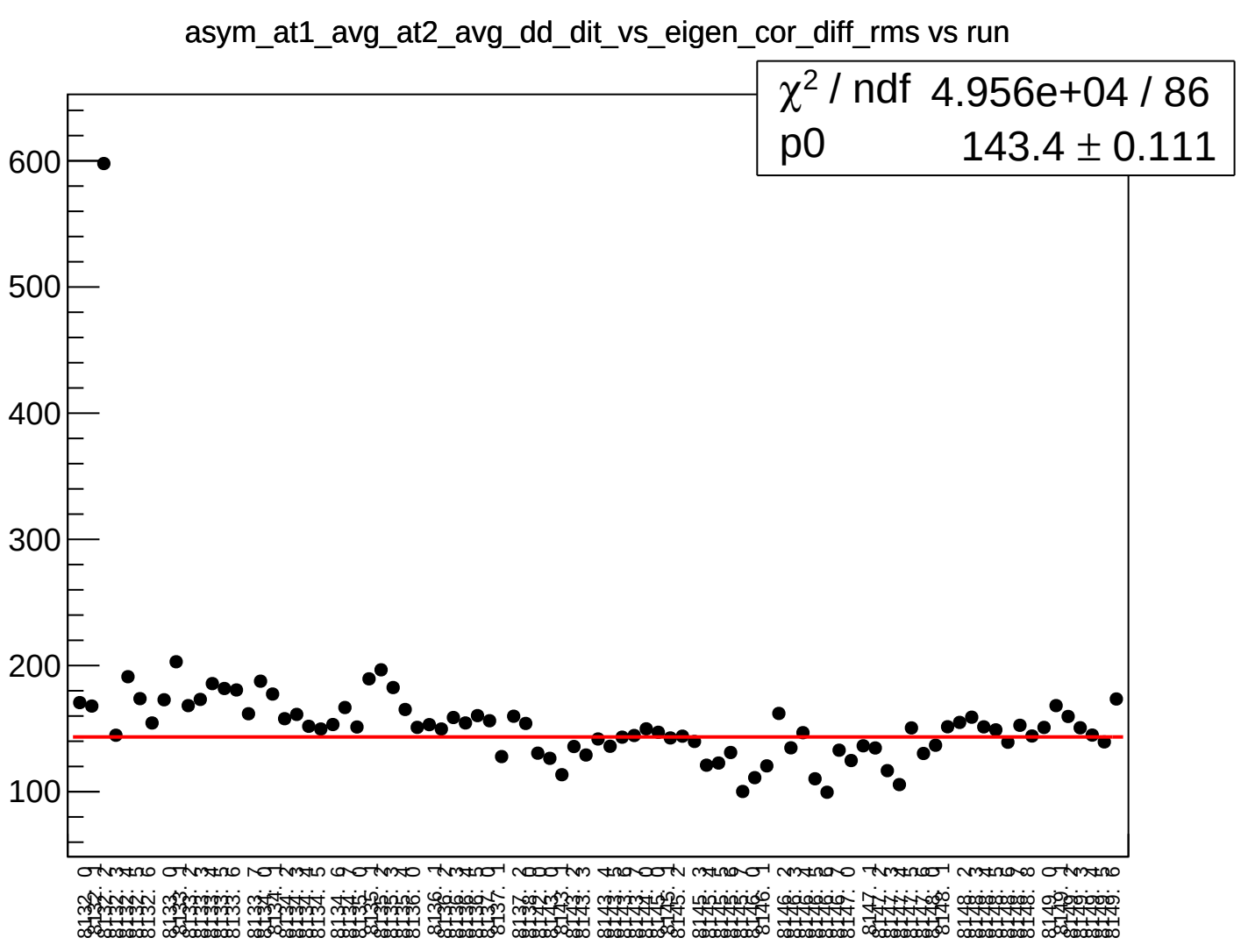

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 57.98 / 86
p0 −0.1874 ± 0.157
pull
Entries 87
Mean −15.72
Std Dev 38.27

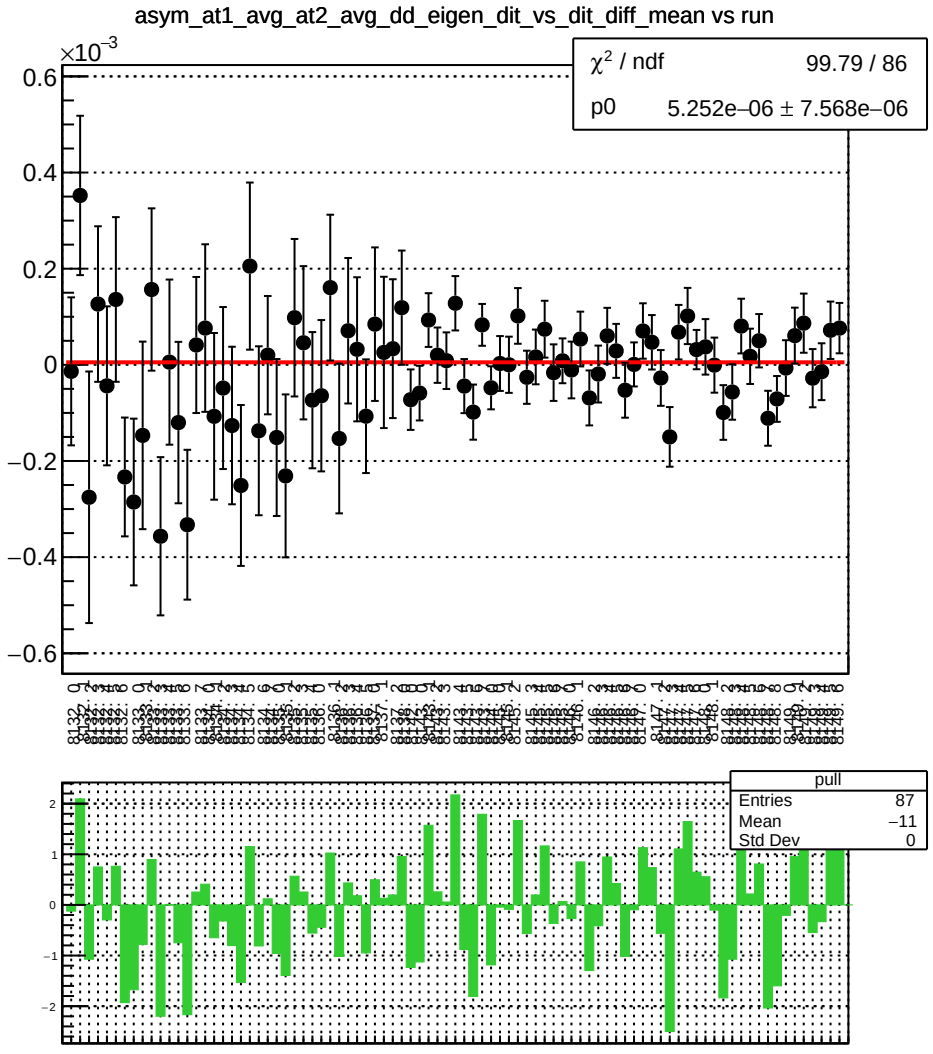

pull1D
Entries 87
Mean −0.02107
Std Dev 0.8161

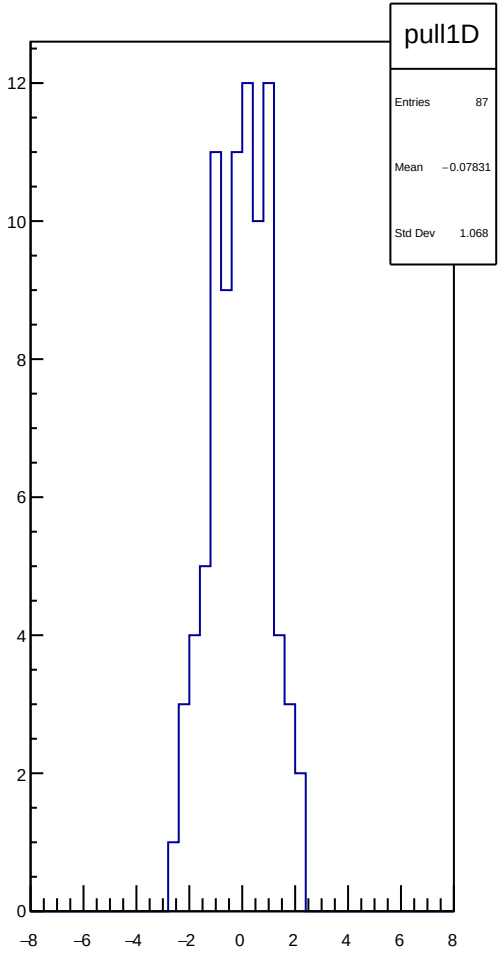

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.956e+04 / 86
p0 143.4 ± 0.111
600
500
400
300
200
100

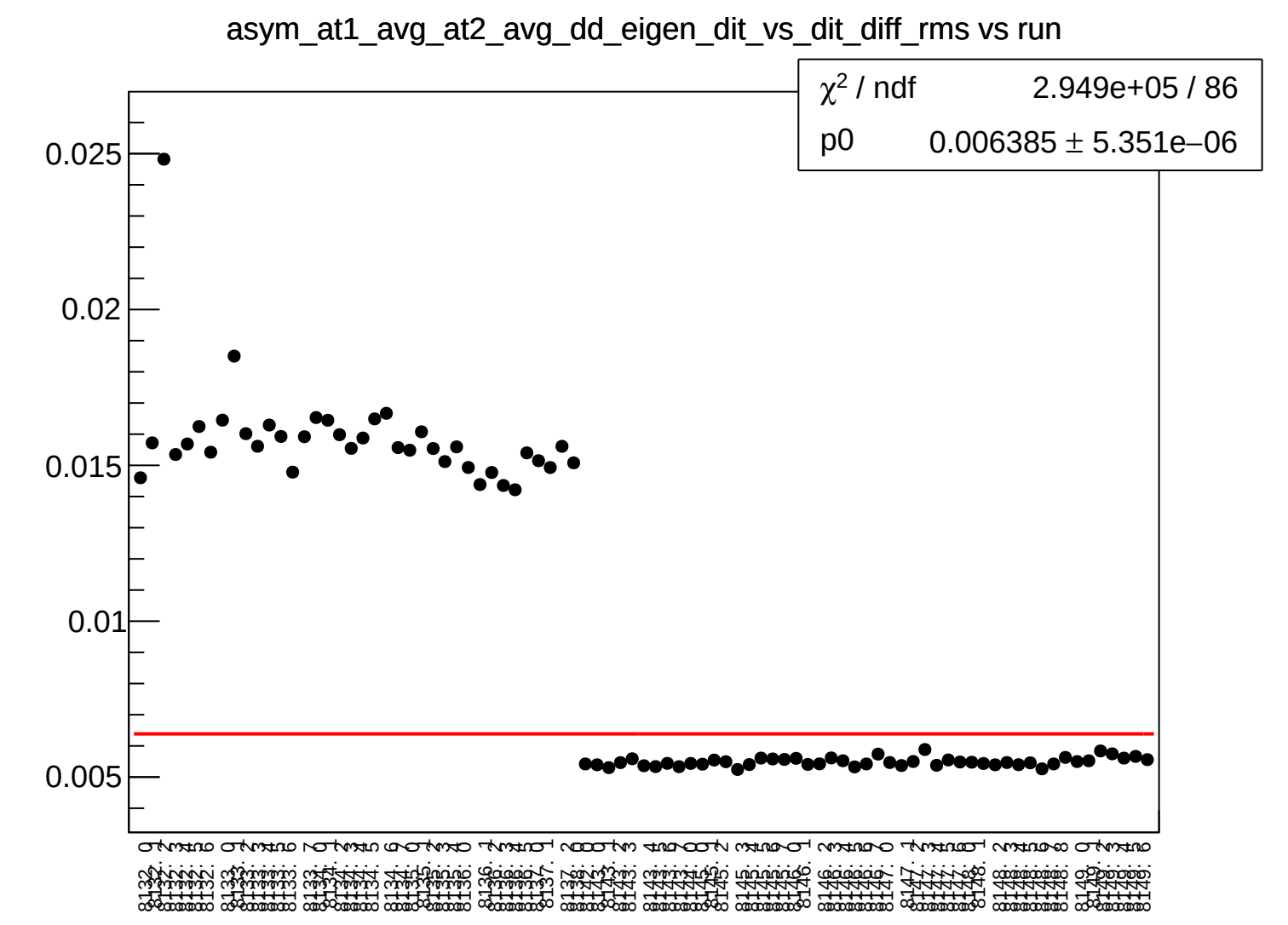

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 57.98 / 86
p0 −0.1874 ± 0.157
pull
Entries 87
Mean −15.72
Std Dev 38.27

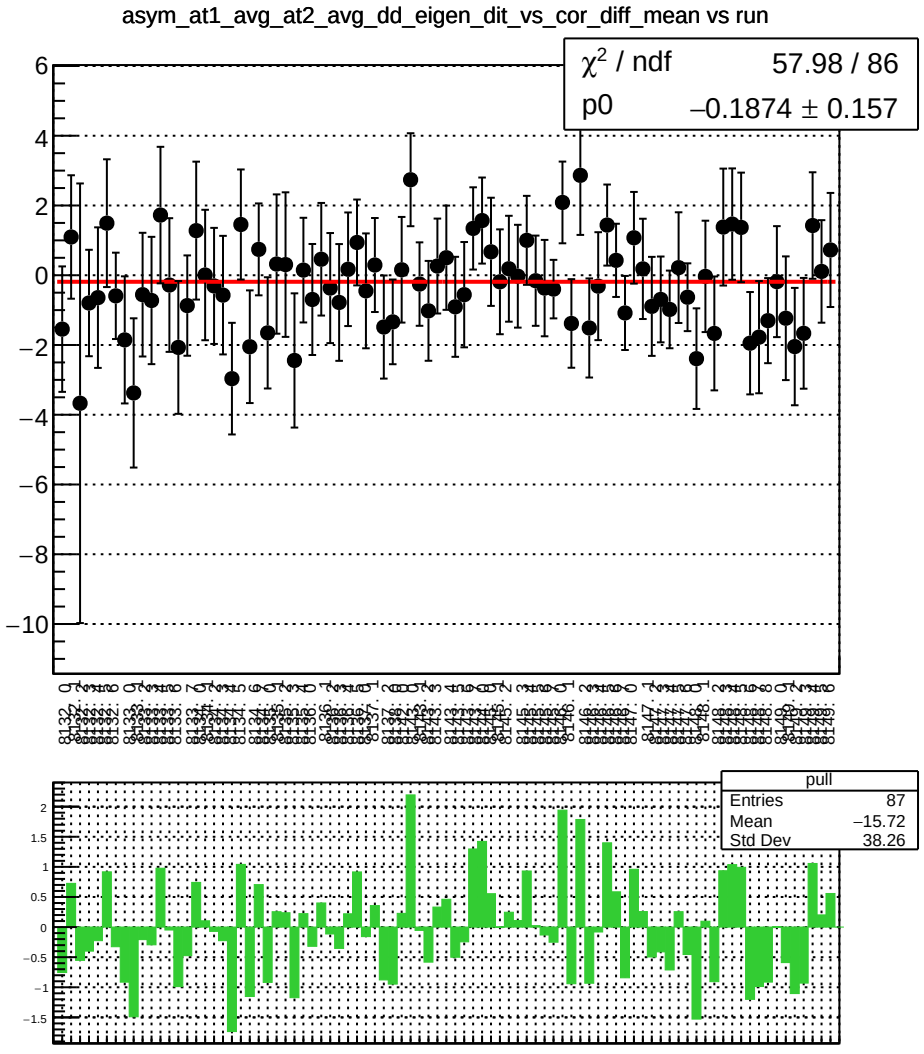

pull1D
Entries 87
Mean −0.02107
Std Dev 0.8161

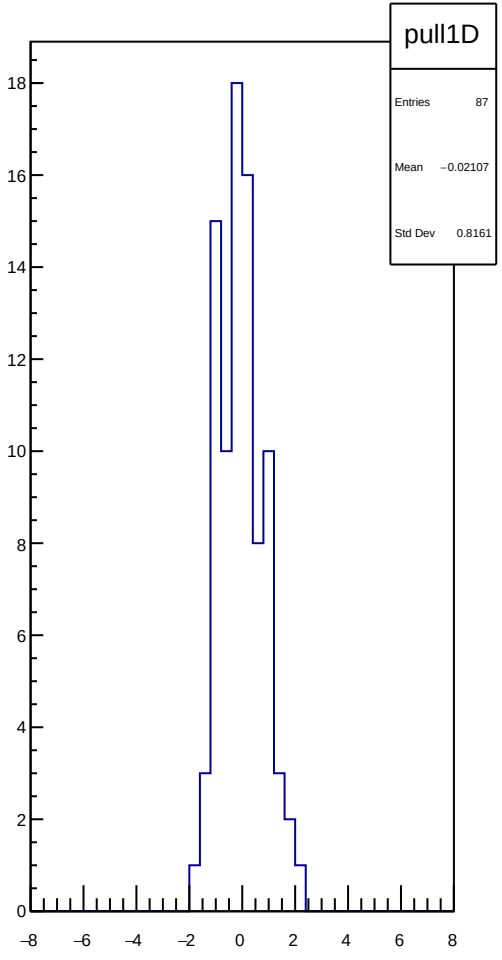

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.956e+04 / 86
p0 143.4 ± 0.111
600
500
400
300
200
100

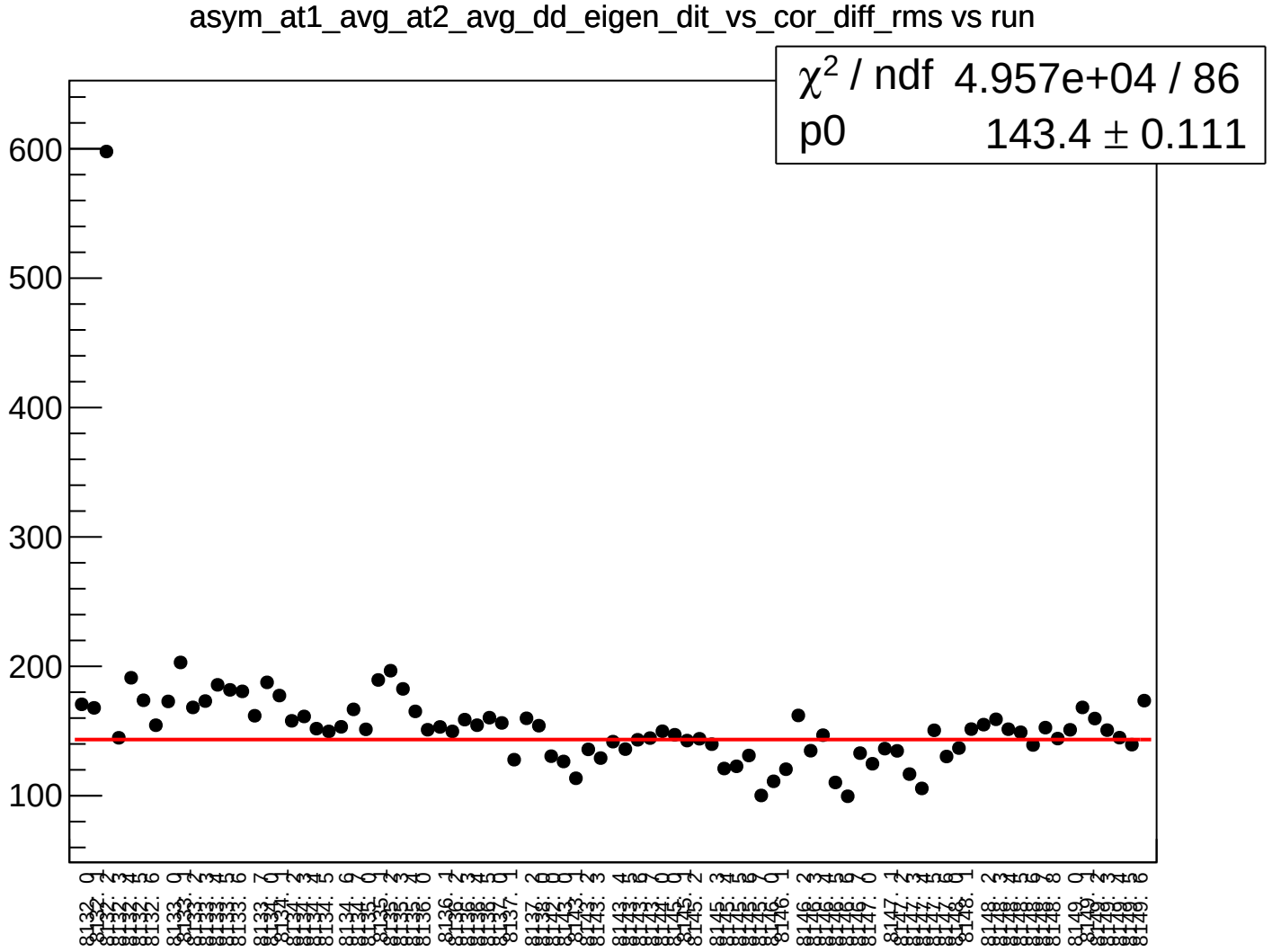

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.79 / 86
p0 5.252e−06 ± 7.568e−06
pull
Entries 87
Mean −11
Std Dev 0

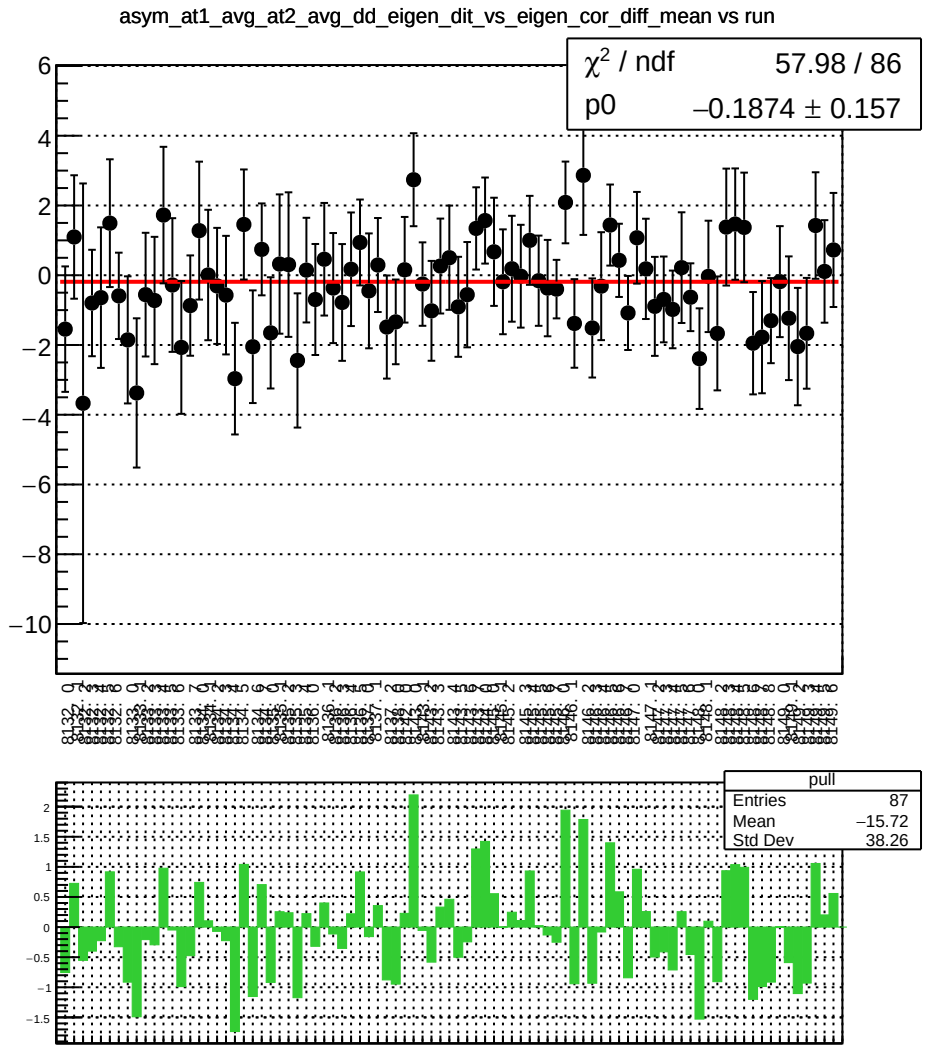

pull1D
Entries 87
Mean −0.07831
Std Dev 1.068

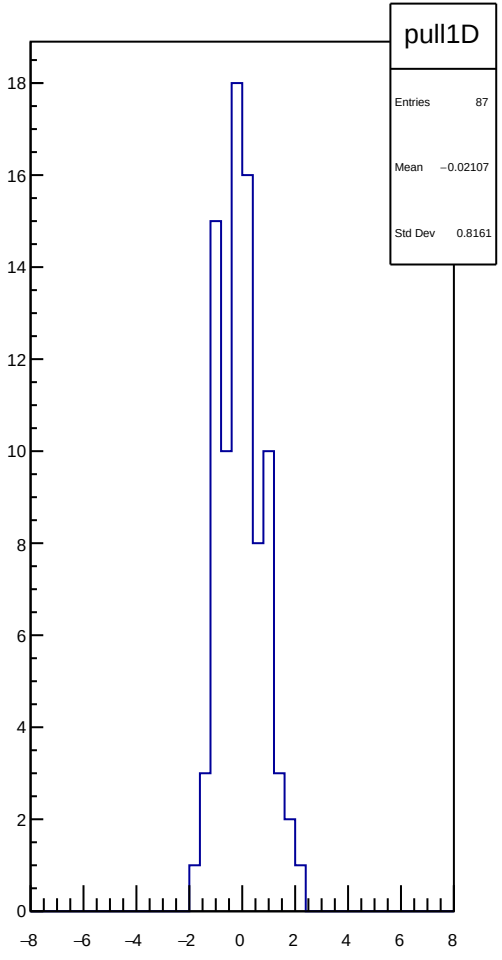

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.949e+05 / 86
p0 0.006385 ± 5.351e−06
0.025
0.02
0.015
0.01
0.005

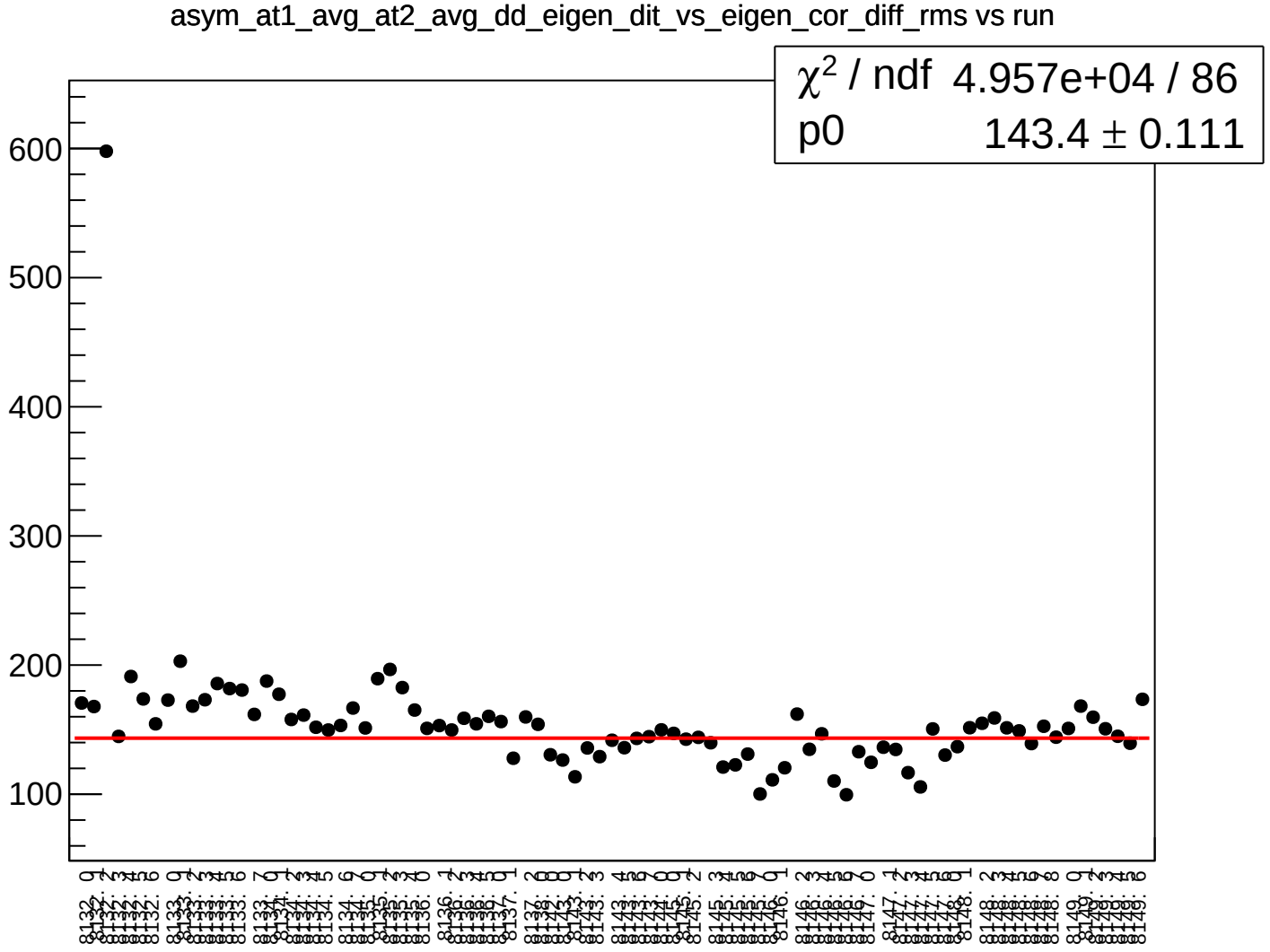

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 57.98 / 86
p0 −0.1874 ± 0.157
pull
Entries 87
Mean −15.72
Std Dev 38.26

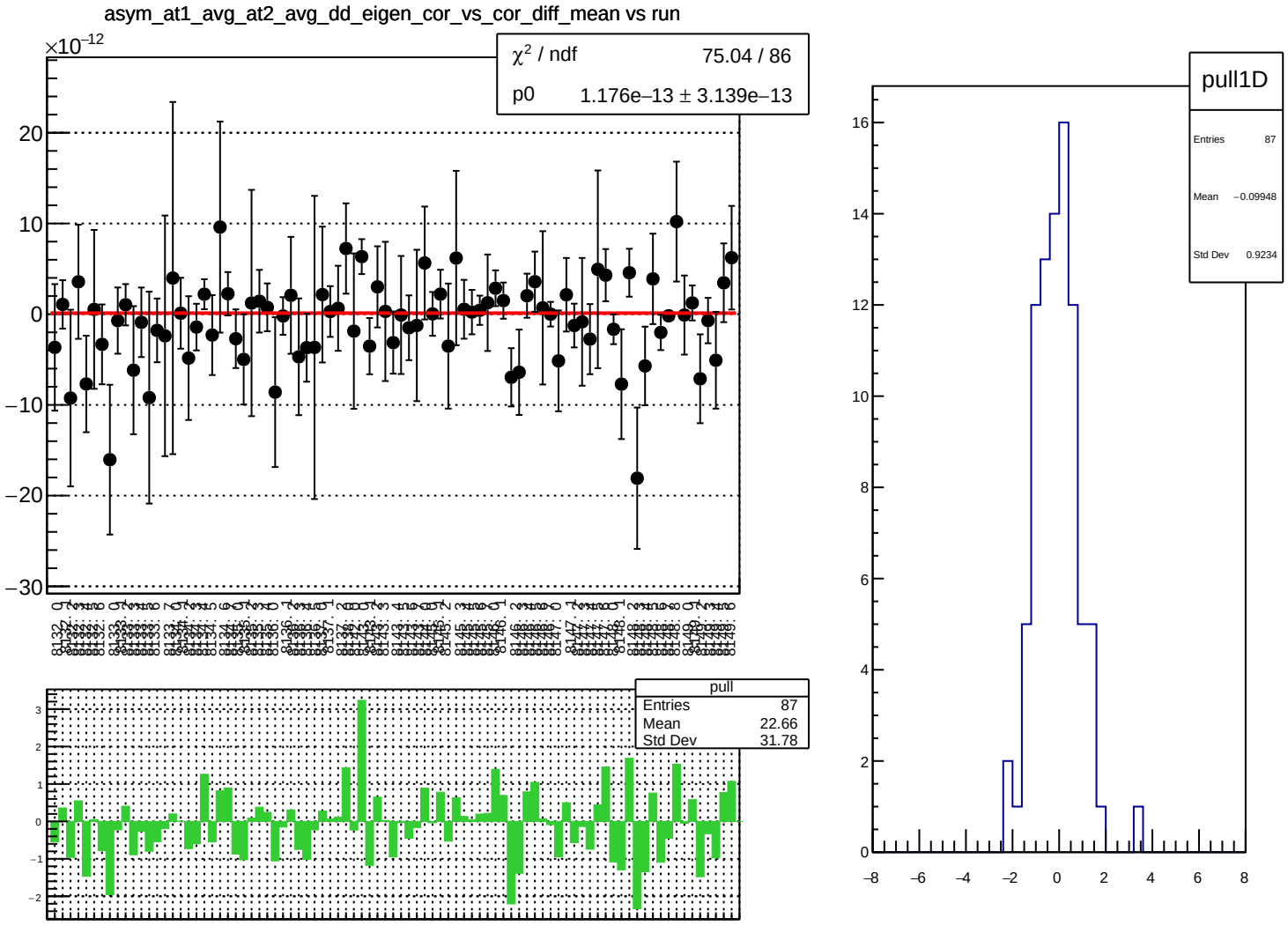

pull1D
Entries 87
Mean −0.02107
Std Dev 0.8161

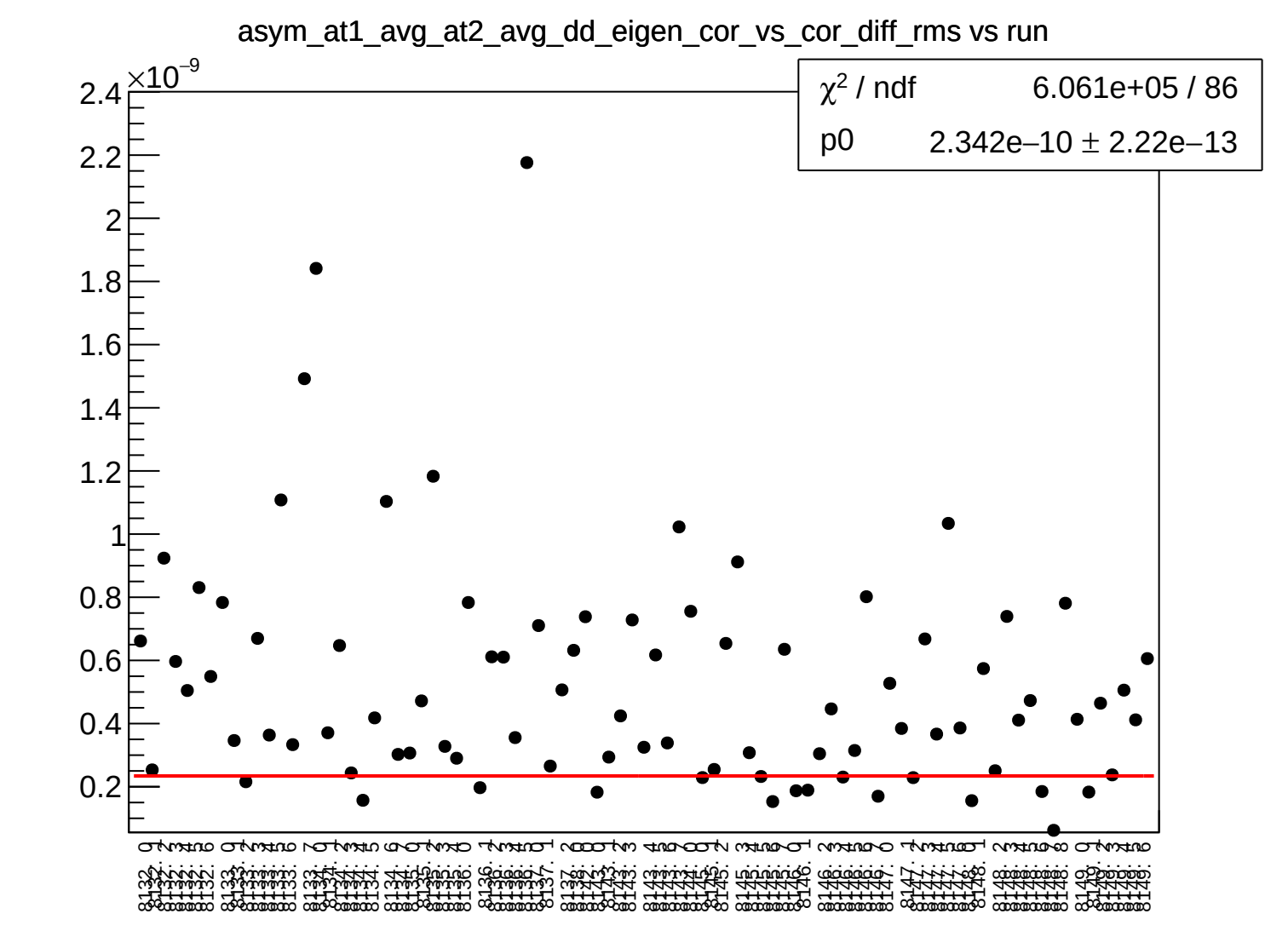

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.957e+04 / 86
p0 143.4 ± 0.111
600
500
400
300
200
100

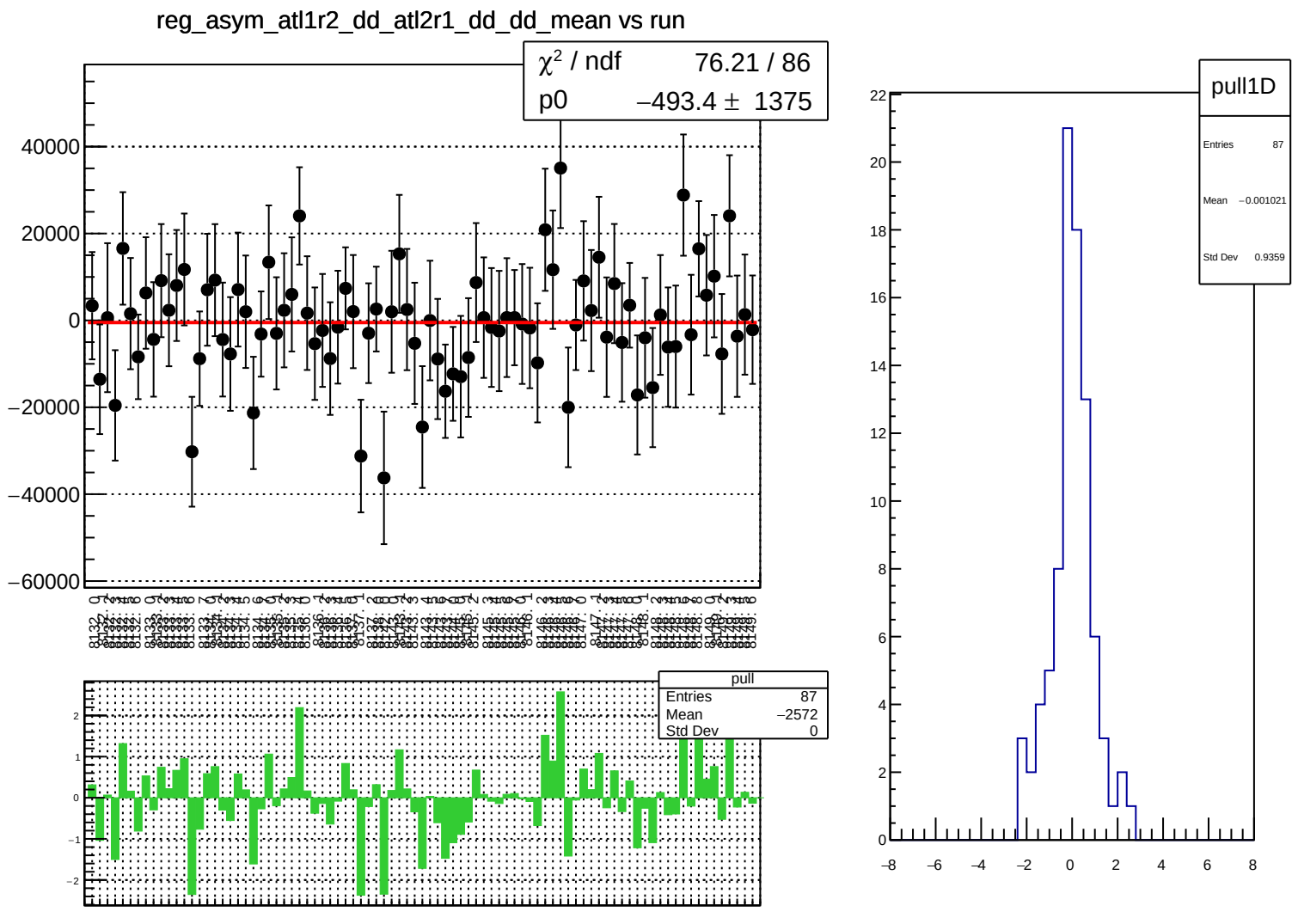

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 57.98 / 86
p0 −0.1874 ± 0.157
pull
Entries 87
Mean −15.72
Std Dev 38.26

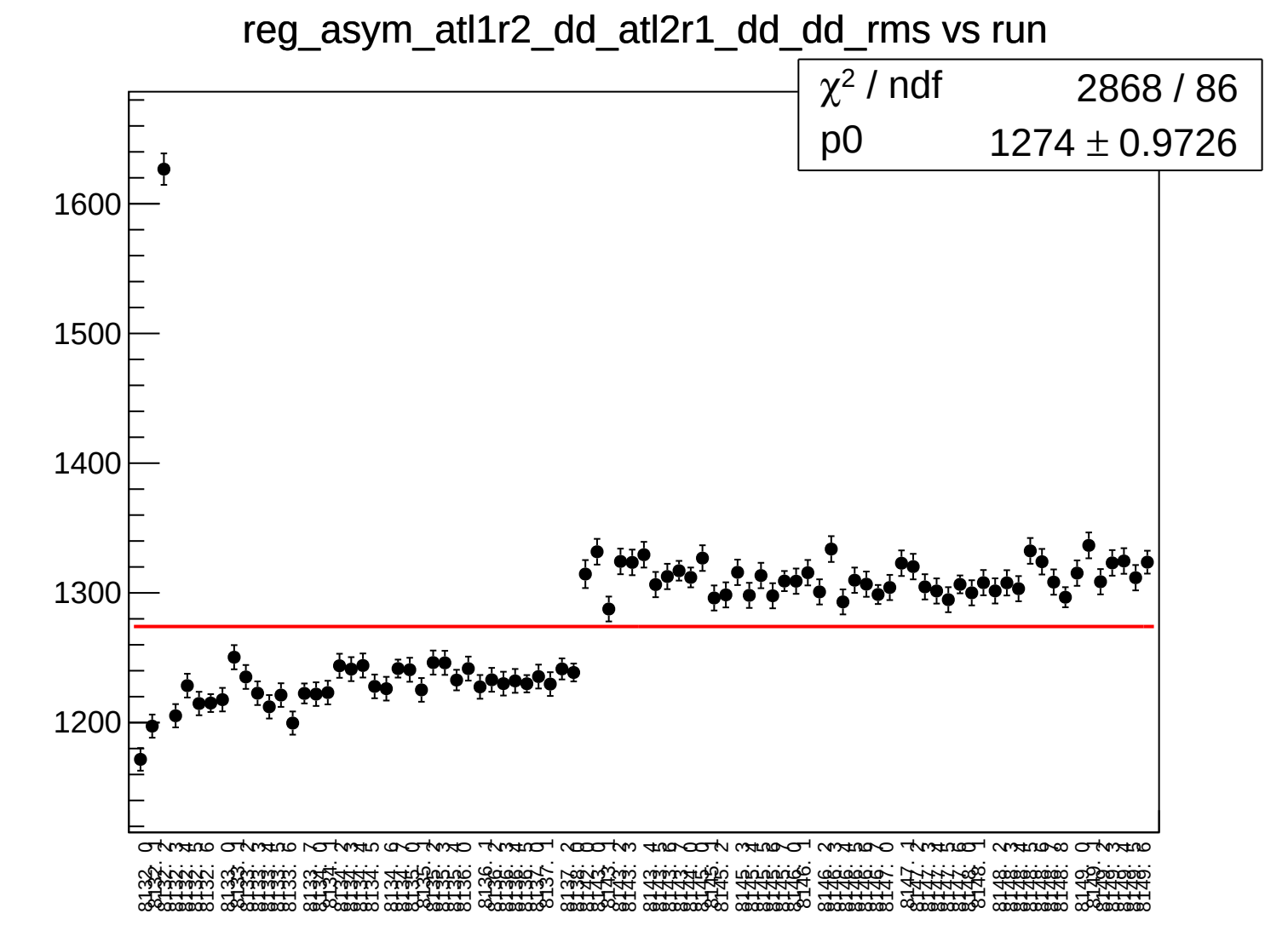

pull1D
Entries 87
Mean −0.02107
Std Dev 0.8161

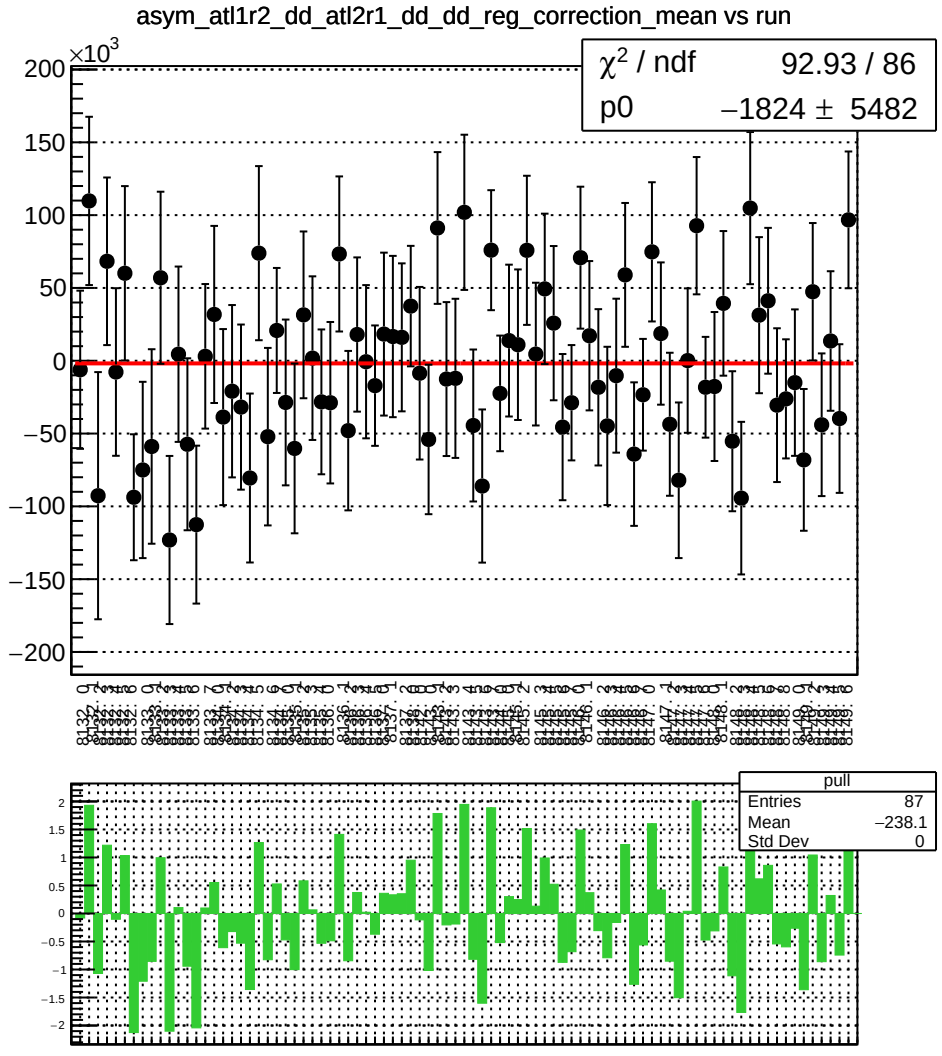

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.957e+04 / 86
p0 143.4 ± 0.111
600
500
400
300
200
100

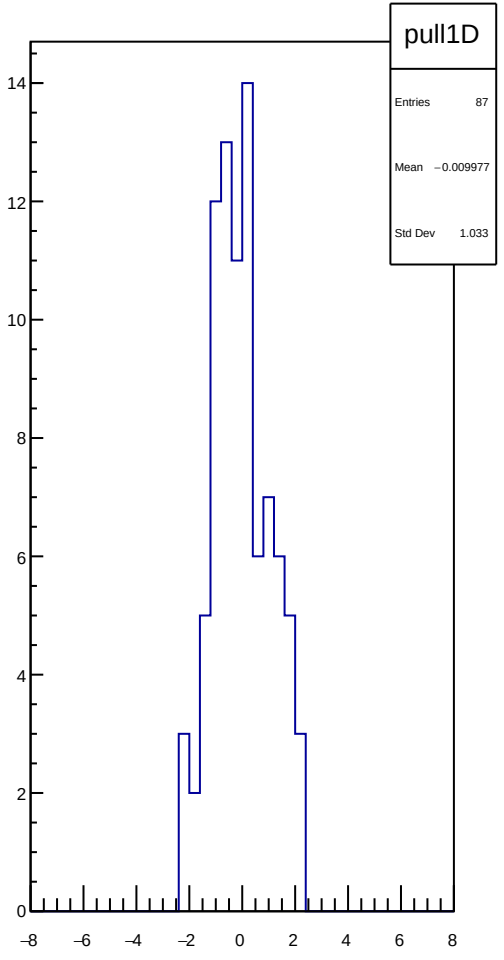

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.04 / 86
p0 1.176e−13 ± 3.139e−13
pull
Entries 87
Mean 22.66
Std Dev 31.78
pull1D
Entries 87
Mean −0.09948
Std Dev 0.9234

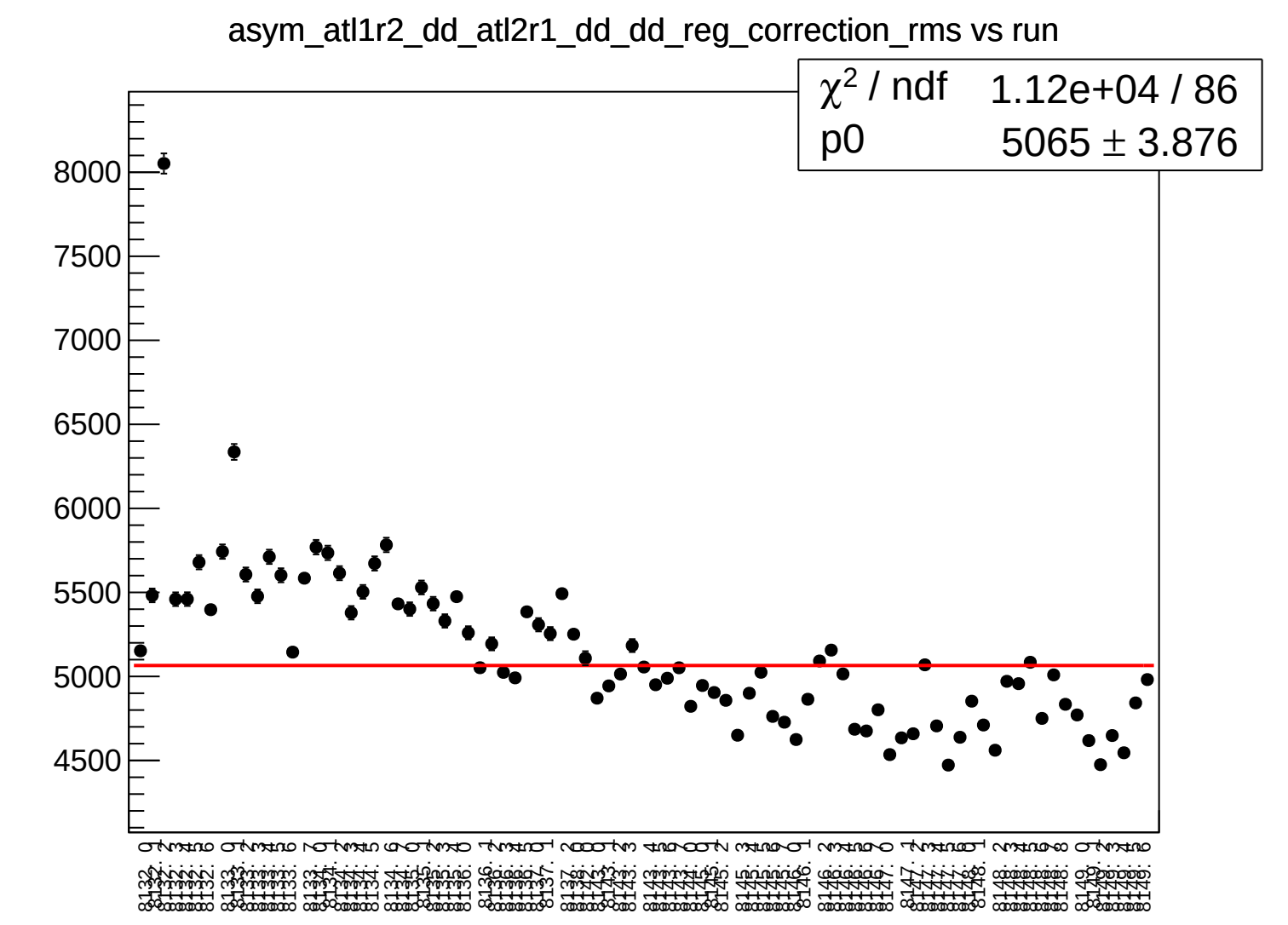

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.061e+05 / 86
p0 2.342e−10 ± 2.22e−13
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

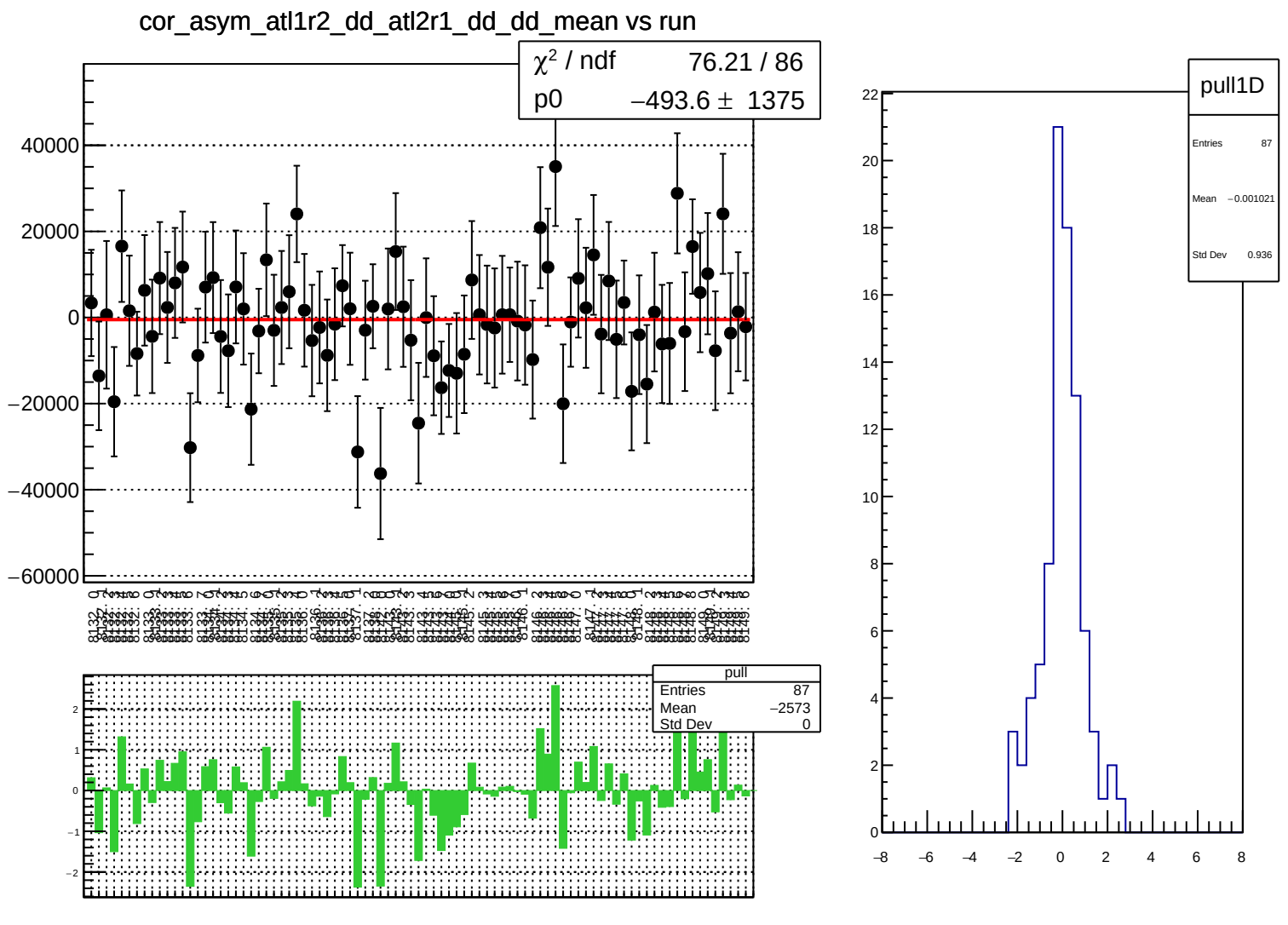

reg_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 76.21 / 86
p0 −493.4 ± 1375
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −2572
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.001021
Std Dev 0.9359
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

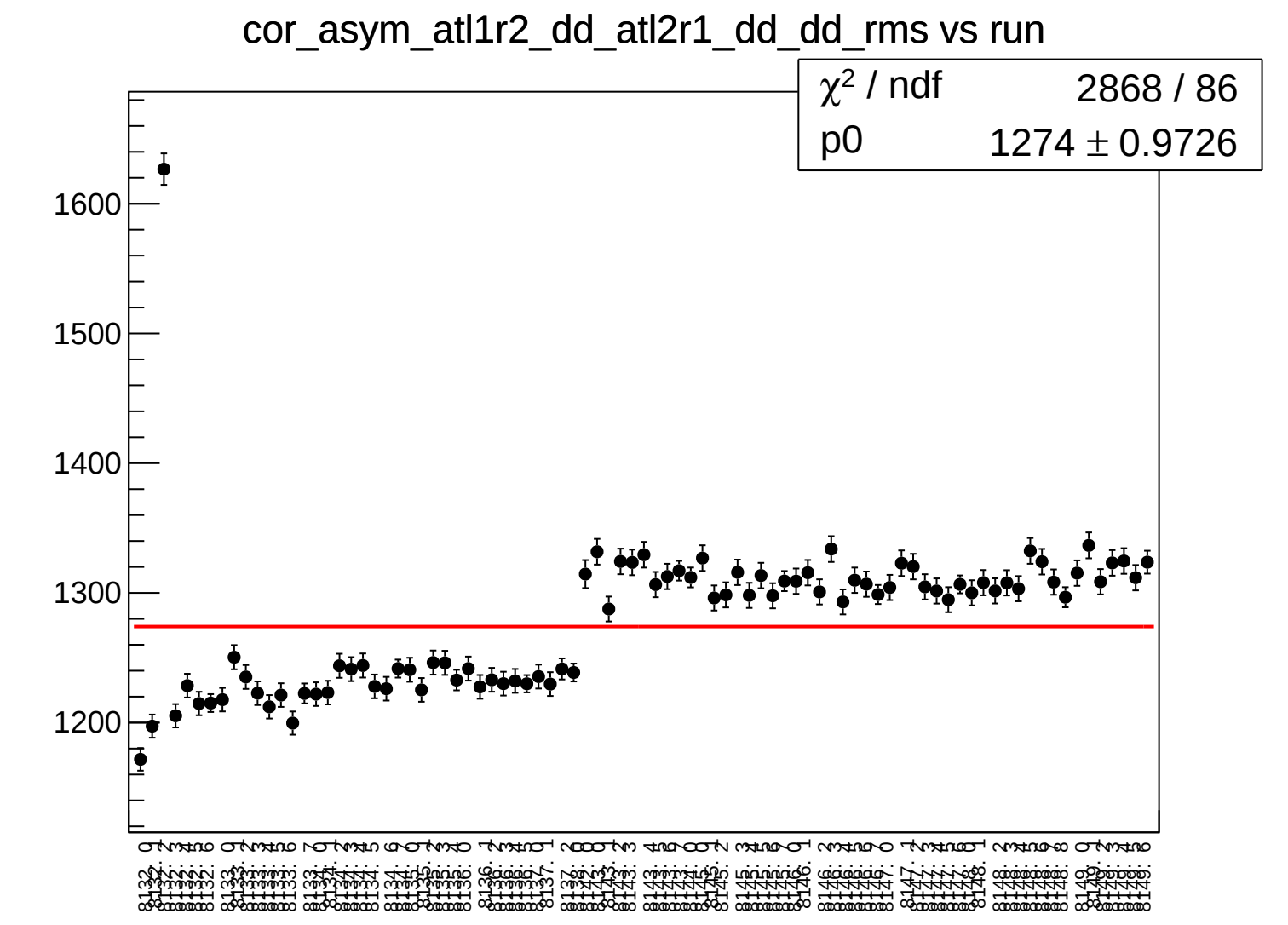

reg_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 2868 / 86
p0 1274 ± 0.9726
1600
1500
1400
1300
1200

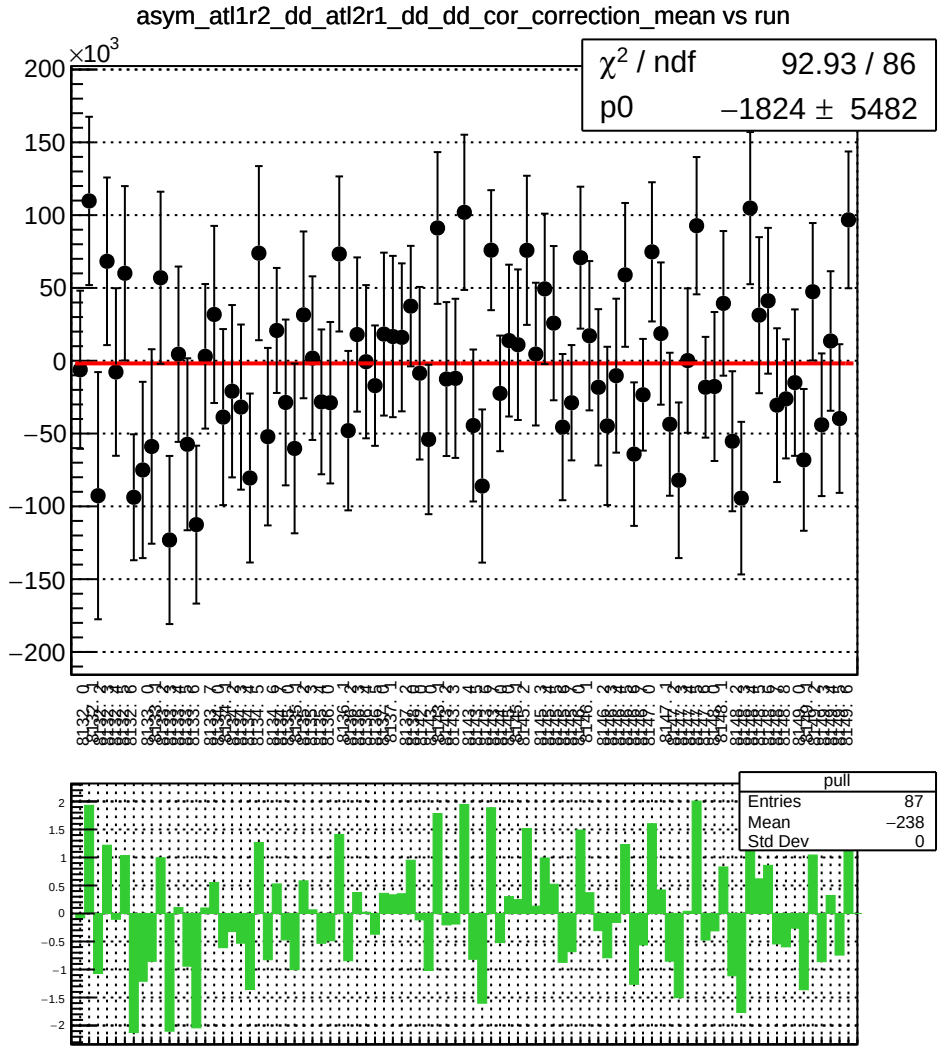

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_mean vs run
×10^3
χ² / ndf 92.93 / 86
p0 −1824 ± 5482
pull
Entries 87
Mean −238.1
Std Dev 0

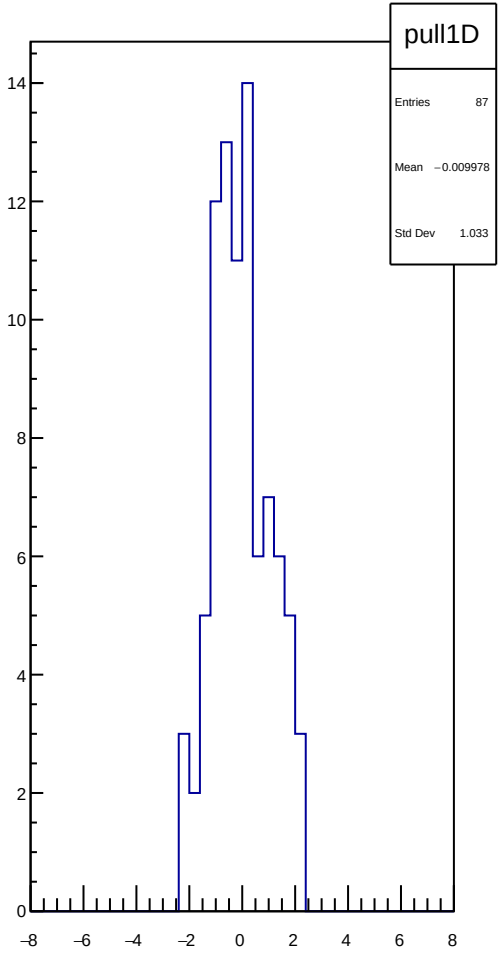

pull1D
Entries 87
Mean −0.009977
Std Dev 1.033

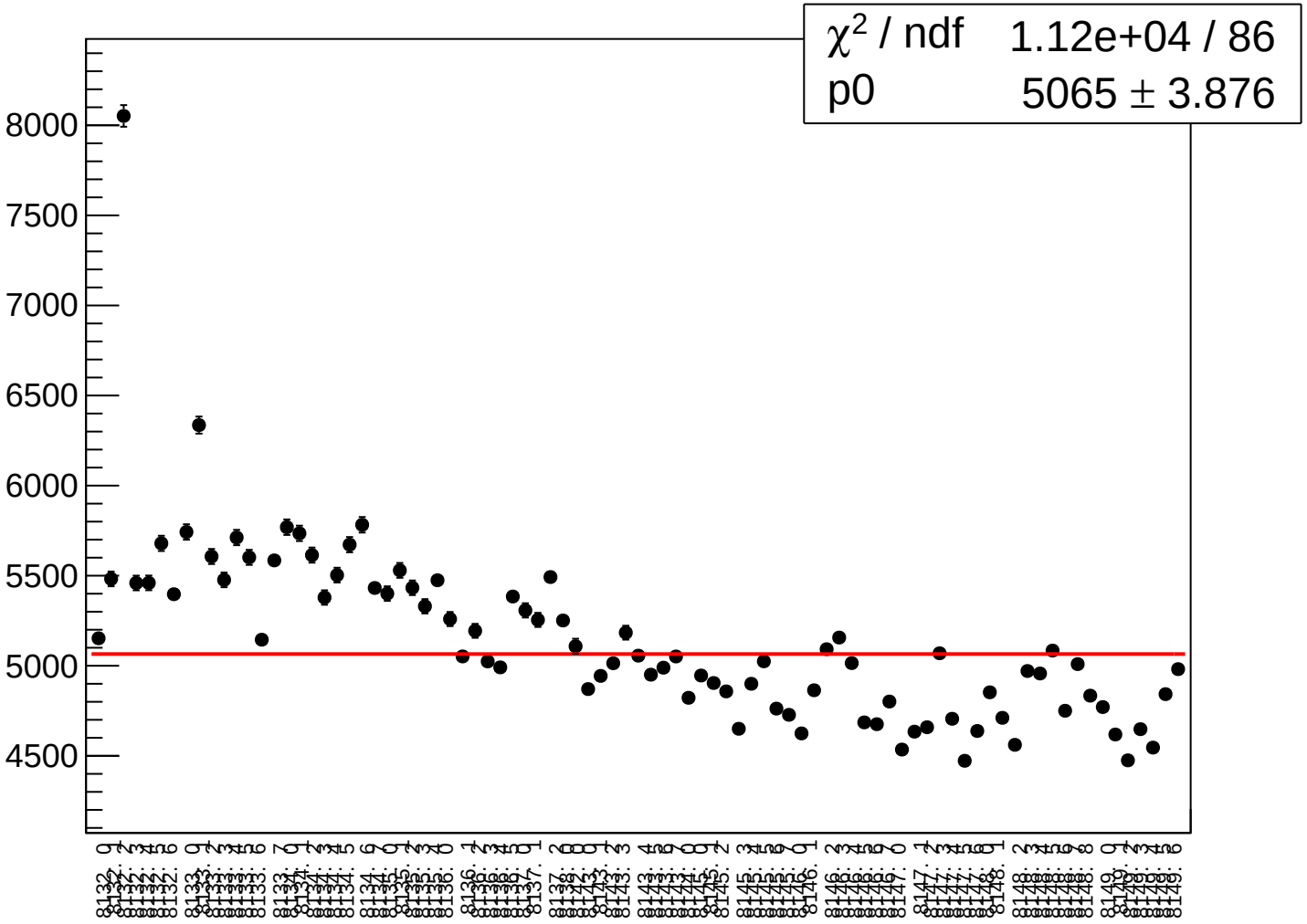

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_rms vs run
χ² / ndf 1.12e+04 / 86
p0 5065 ± 3.876
8000
7500
7000
6500
6000
5500
5000
4500

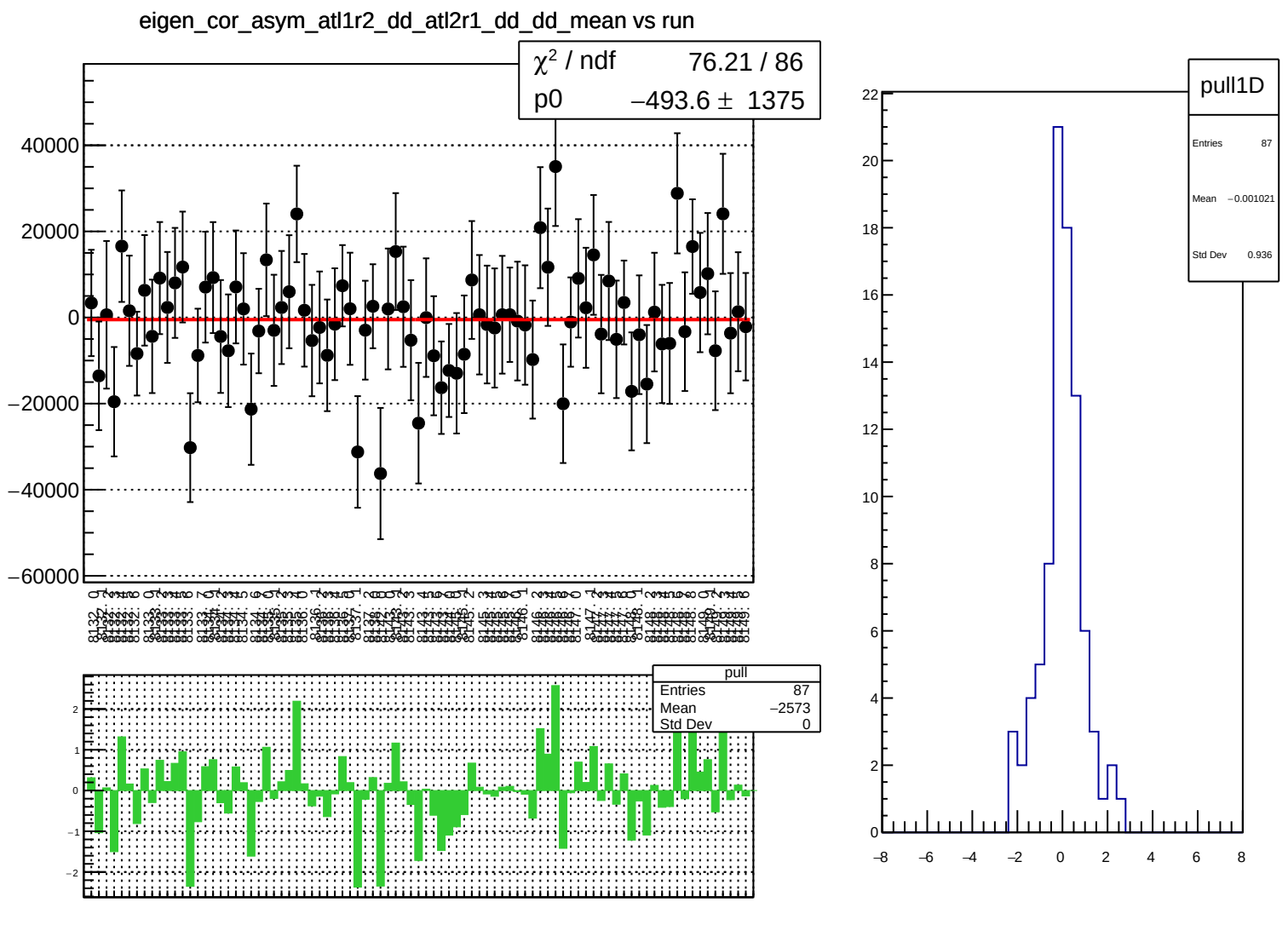

cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 76.21 / 86
p0 −493.6 ± 1375
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −2573
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.001021
Std Dev 0.936
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

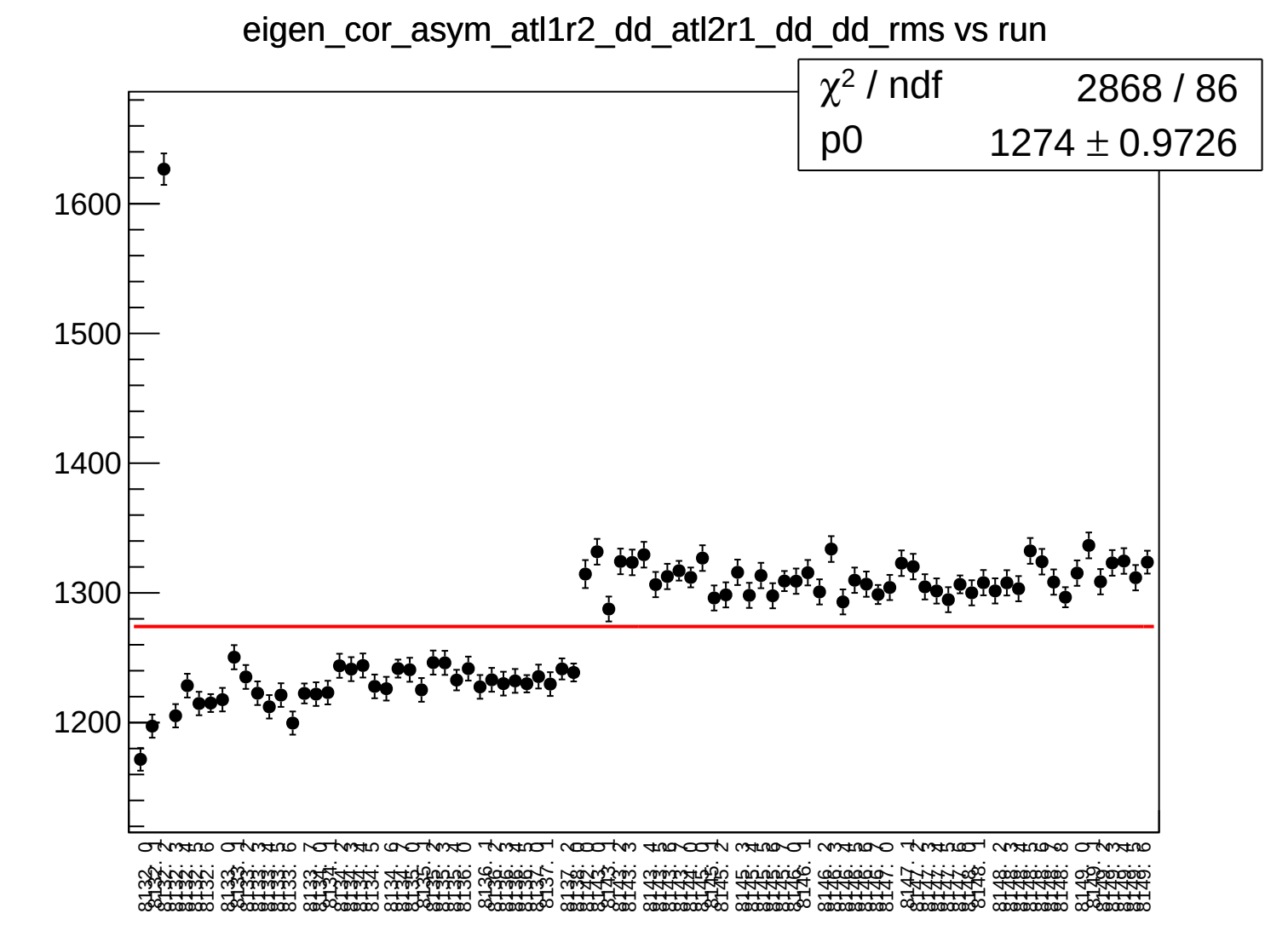

cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 2868 / 86
p0 1274 ± 0.9726
1600
1500
1400
1300
1200

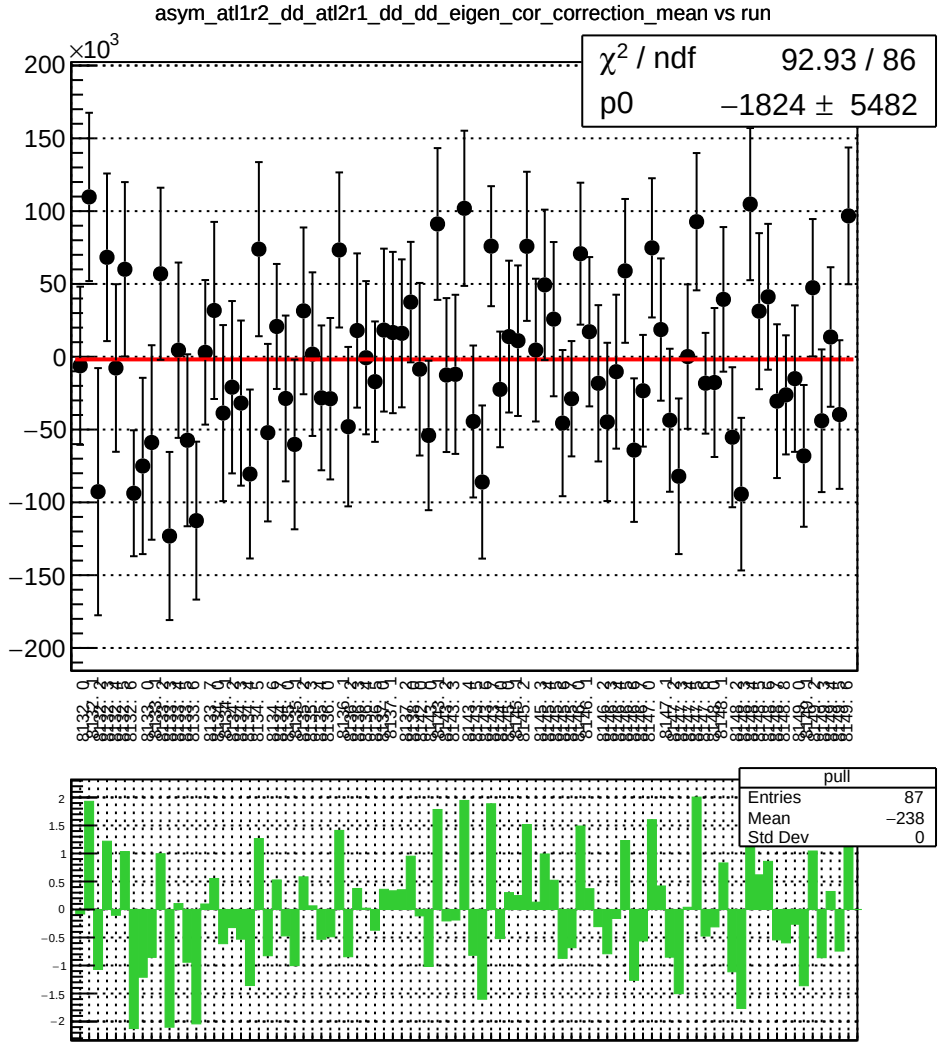

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_mean vs run
×10^3
χ² / ndf 92.93 / 86
p0 −1824 ± 5482
pull
Entries 87
Mean −238
Std Dev 0

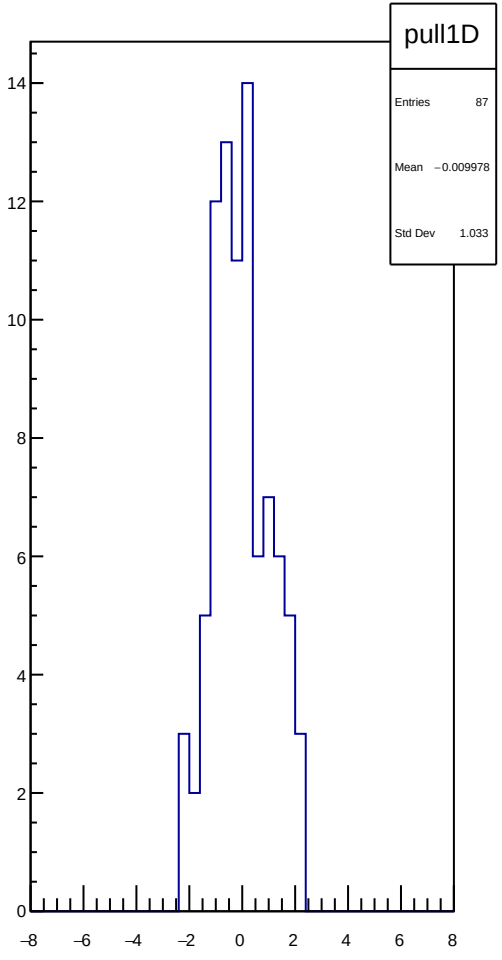

pull1D
Entries 87
Mean −0.009978
Std Dev 1.033

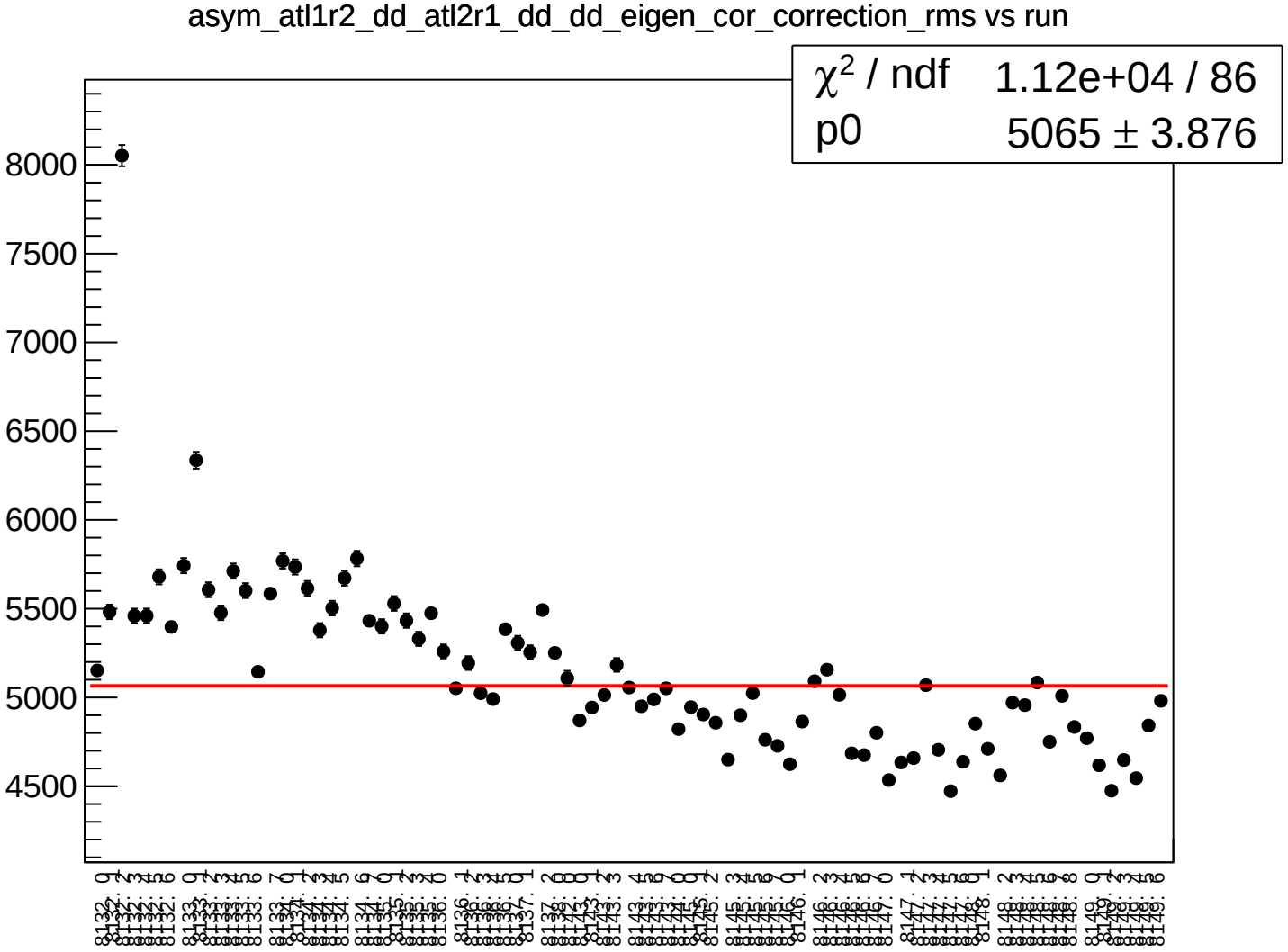

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_rms vs run
χ² / ndf 1.12e+04 / 86
p0 5065 ± 3.876
8000
7500
7000
6500
6000
5500
5000
4500

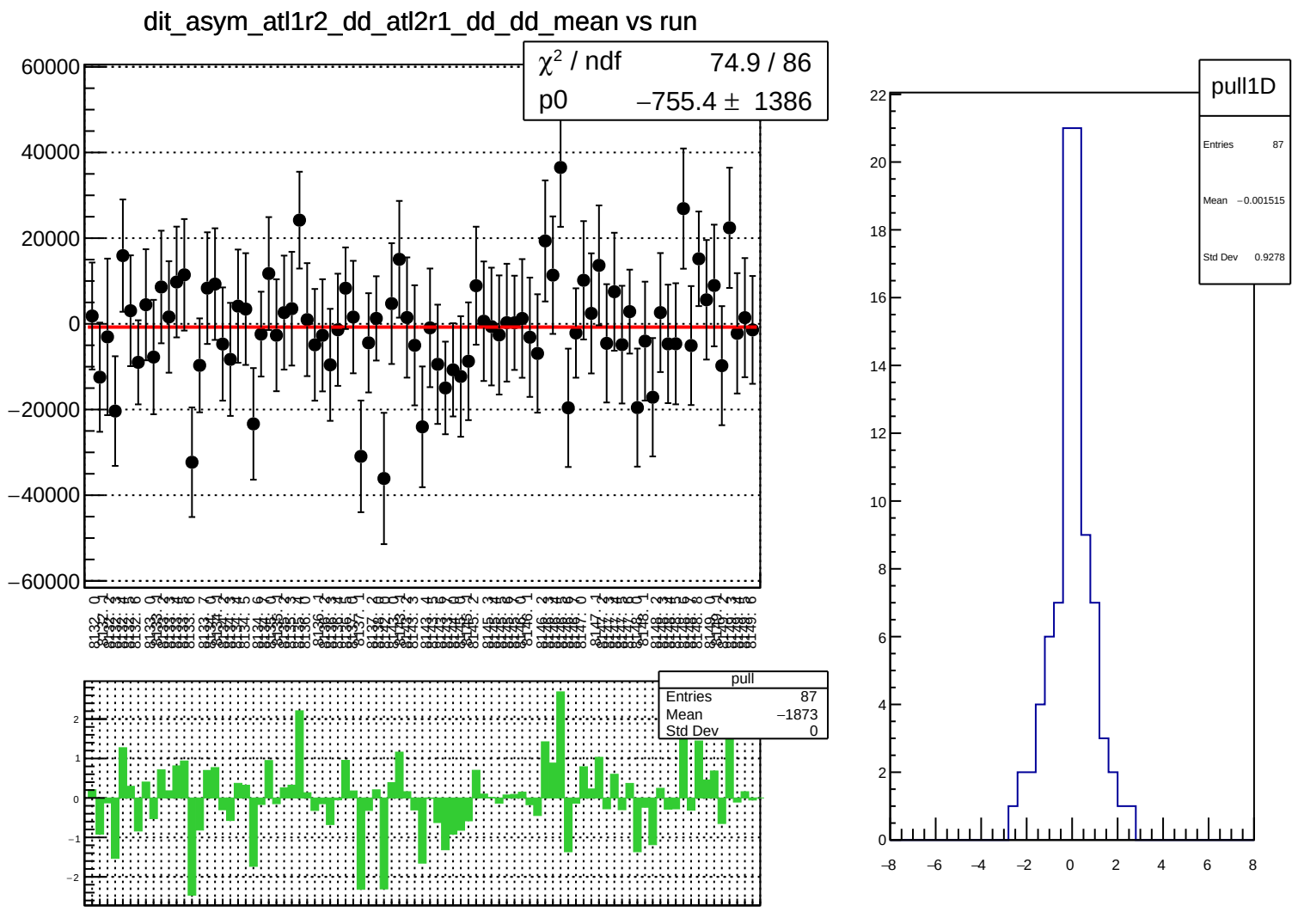

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 76.21 / 86
p0 −493.6 ± 1375
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −2573
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.001021
Std Dev 0.936
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

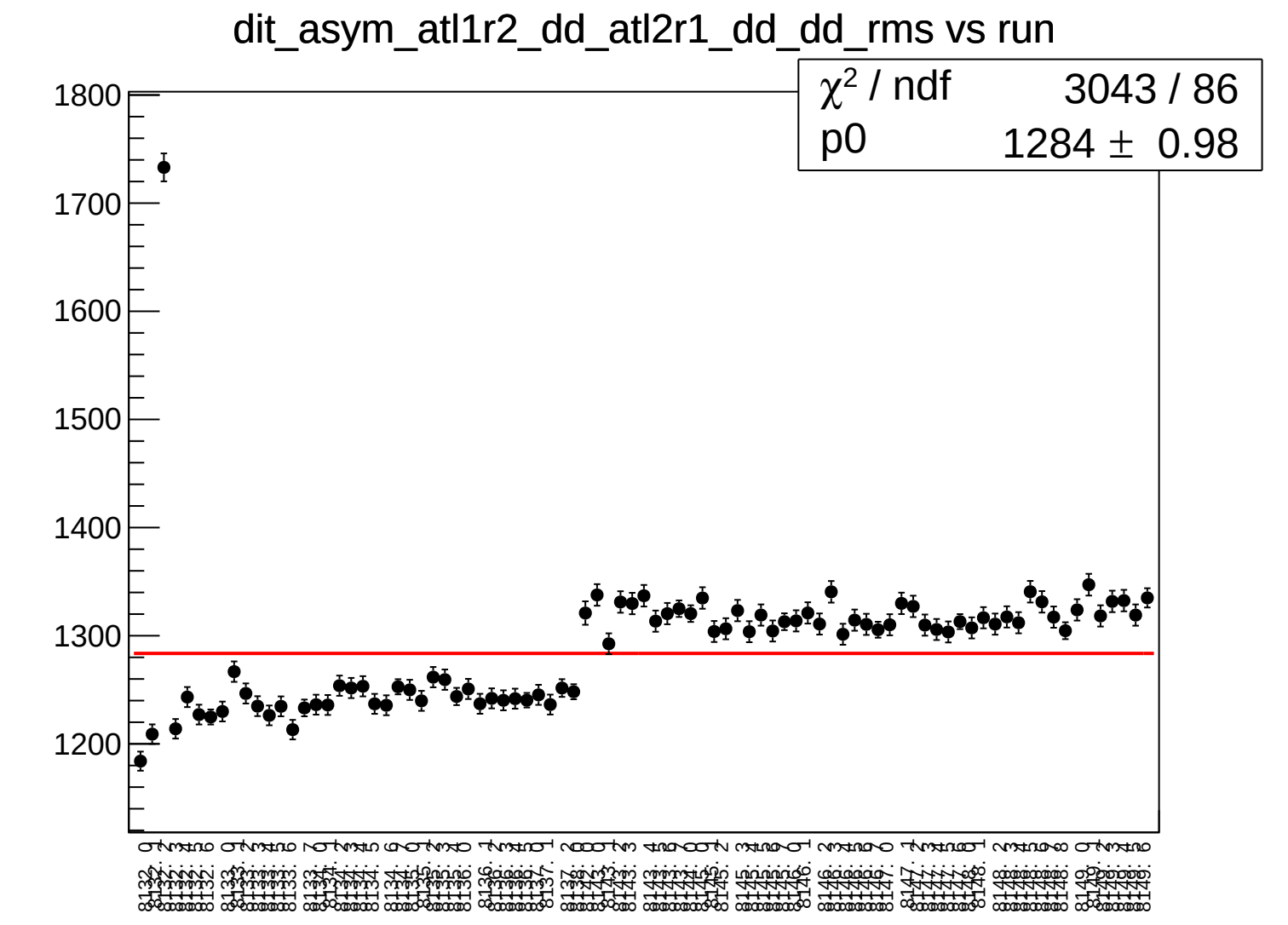

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 2868 / 86
p0 1274 ± 0.9726
1600
1500
1400
1300
1200

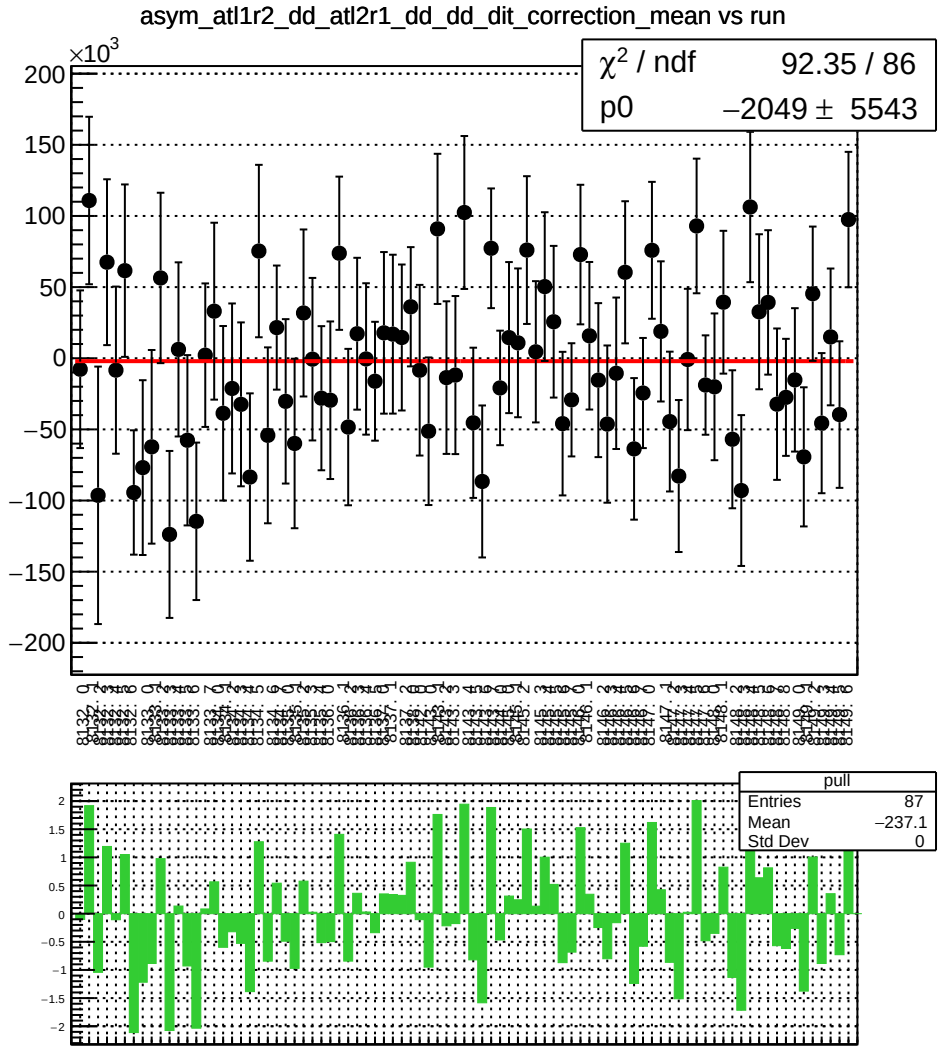

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 92.93 / 86
p0 −1824 ± 5482
pull
Entries 87
Mean −238
Std Dev 0

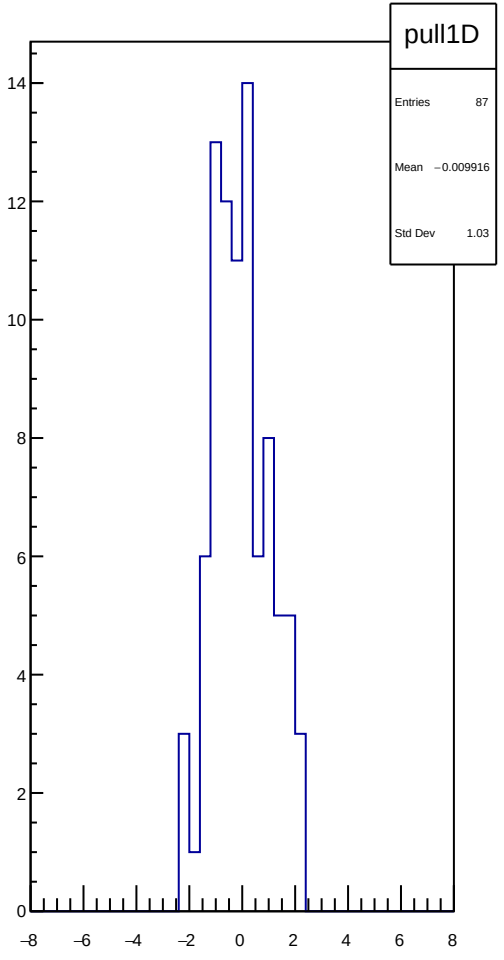

pull1D
Entries 87
Mean −0.009978
Std Dev 1.033

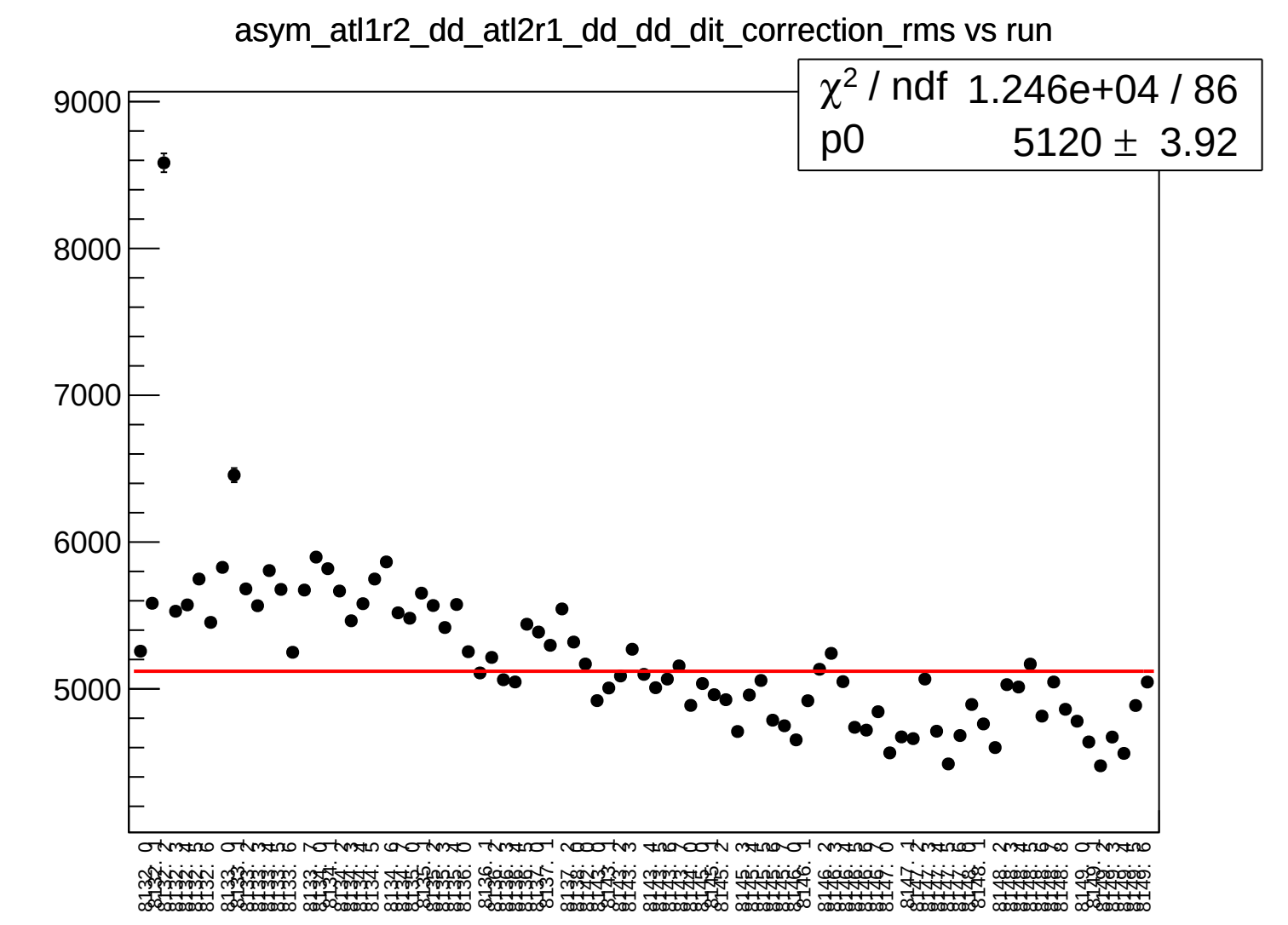

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.12e+04 / 86
p0 5065 ± 3.876
8000
7500
7000
6500
6000
5500
5000
4500

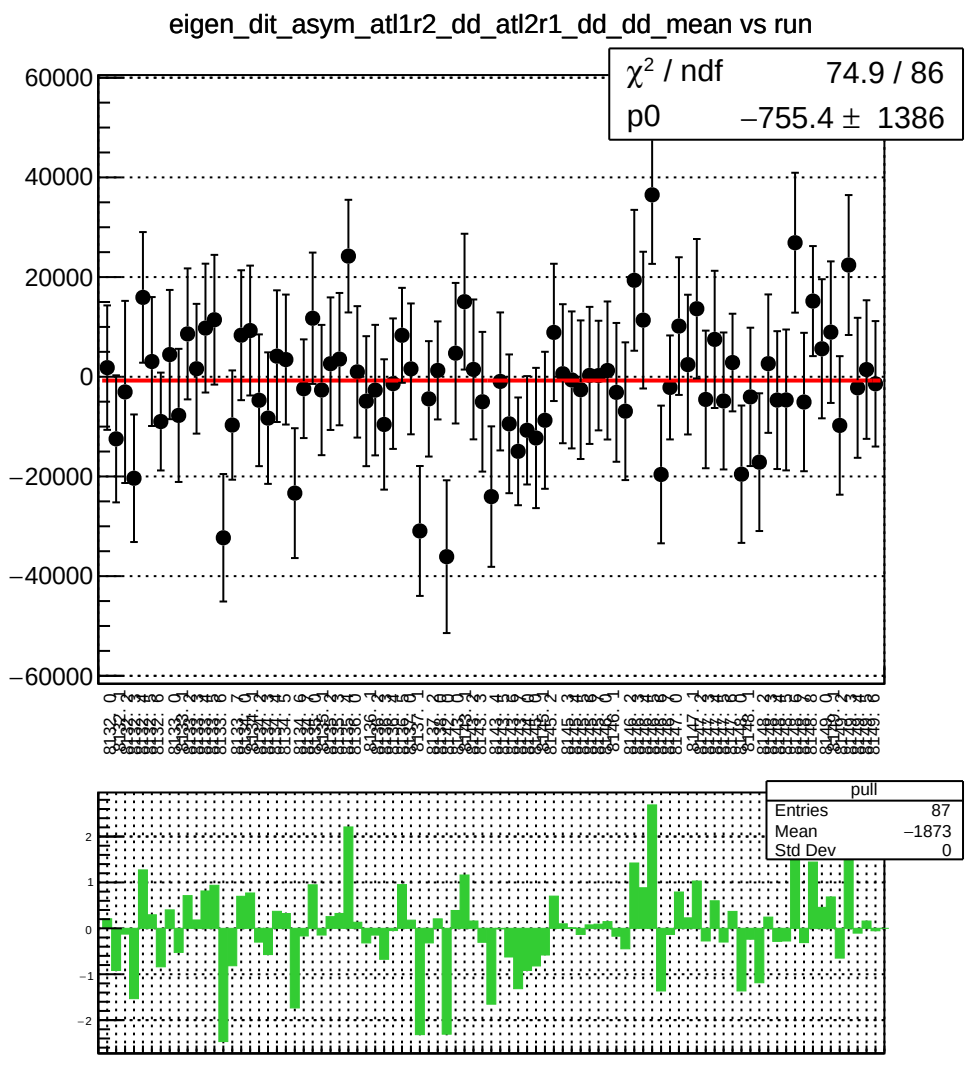

dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 74.9 / 86
p0 −755.4 ± 1386
pull
Entries 87
Mean −1873
Std Dev 0
pull1D
Entries 87
Mean −0.001515
Std Dev 0.9278

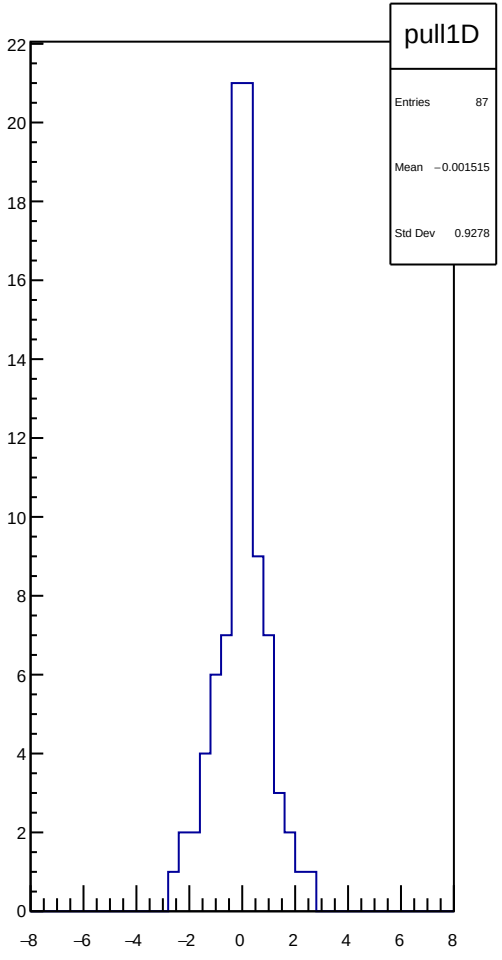

dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 3043 / 86
p0 1284 ± 0.98
1800
1700
1600
1500
1400
1300
1200

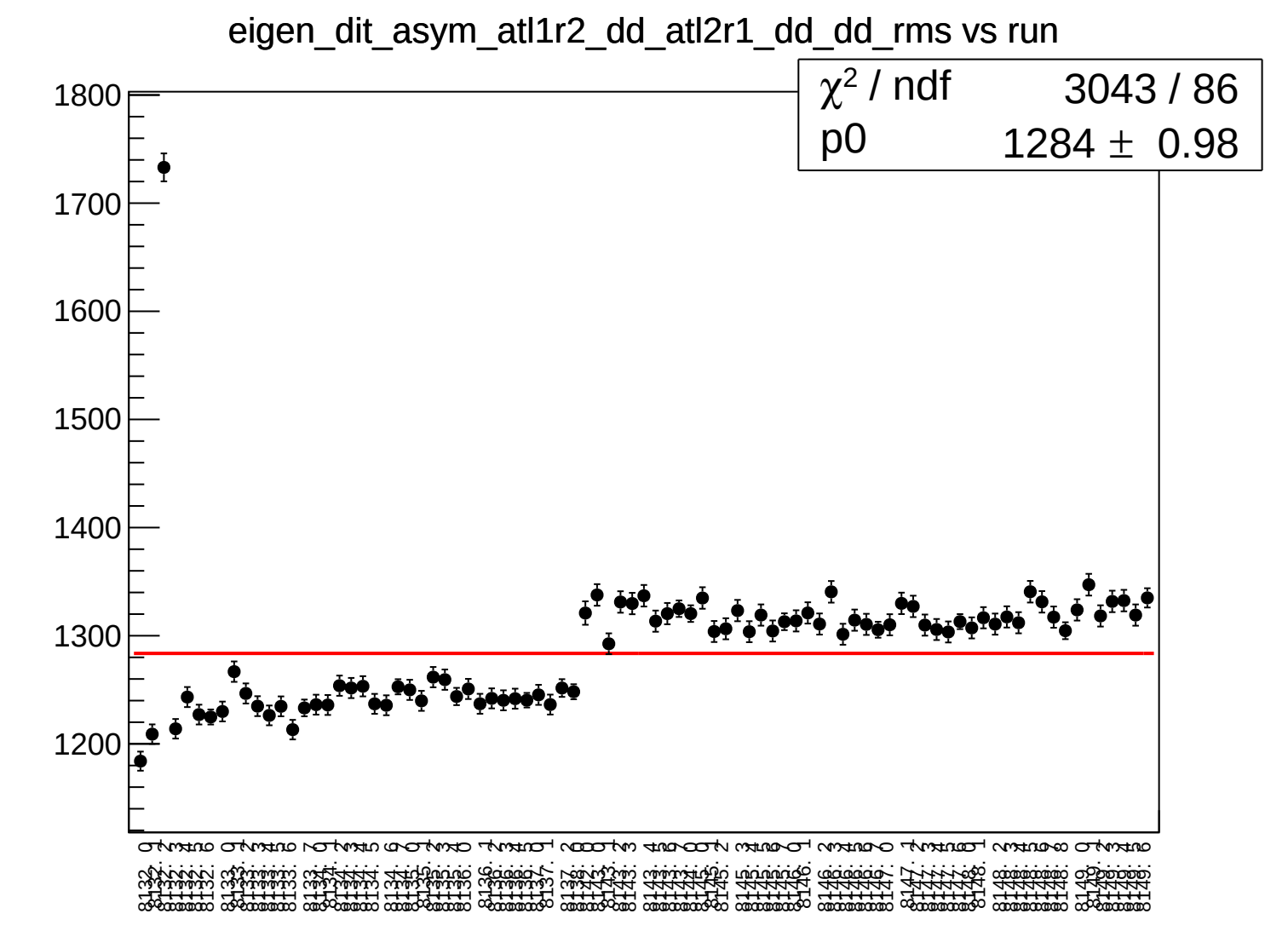

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_mean vs run
×10^3
χ² / ndf 92.35 / 86
p0 −2049 ± 5543
pull
Entries 87
Mean −237.1
Std Dev 0

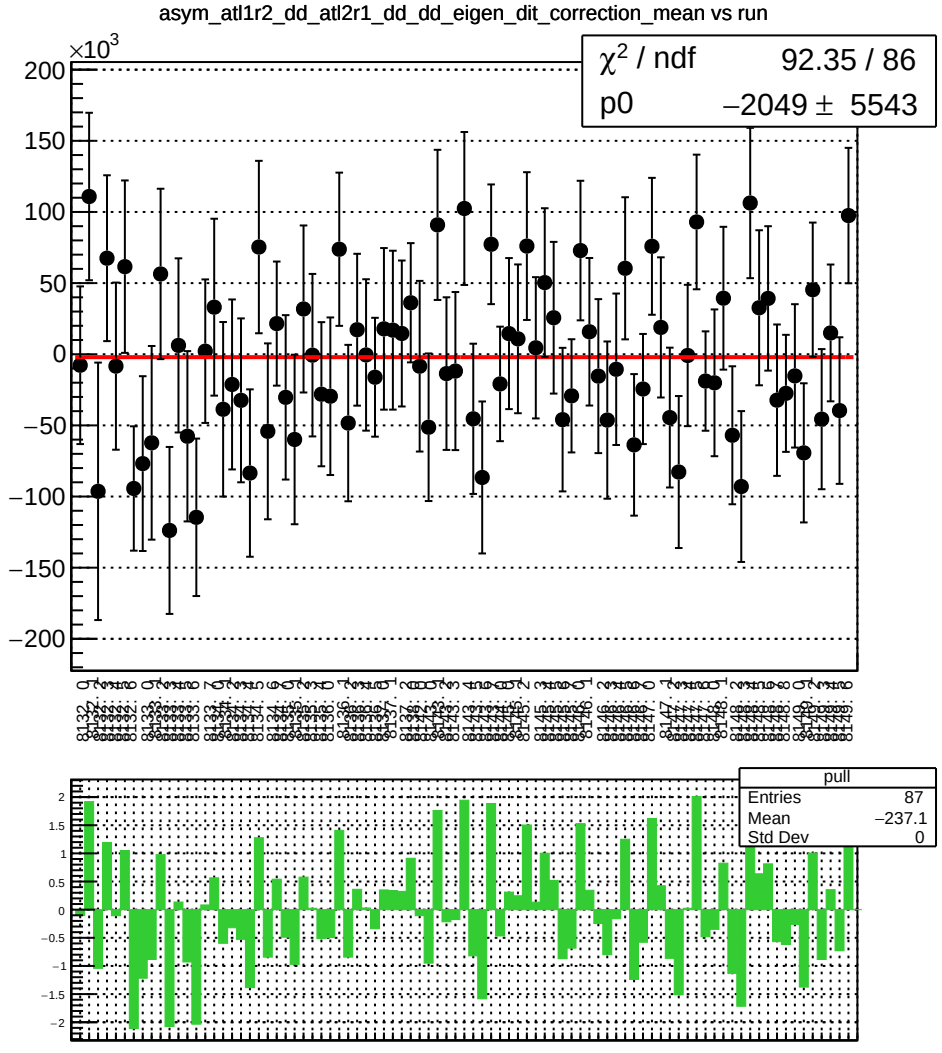

pull1D
Entries 87
Mean −0.009916
Std Dev 1.03

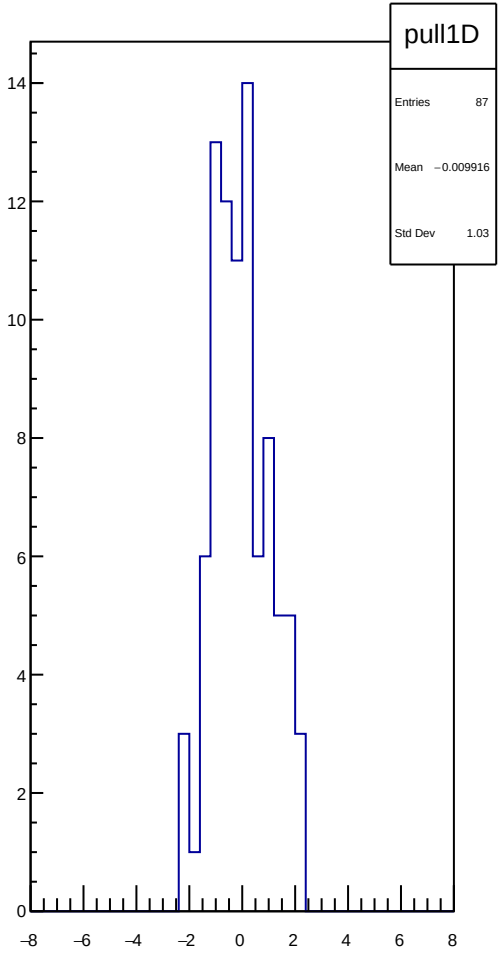

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_rms vs run
χ² / ndf 1.246e+04 / 86
p0 5120 ± 3.92
9000
8000
7000
6000
5000

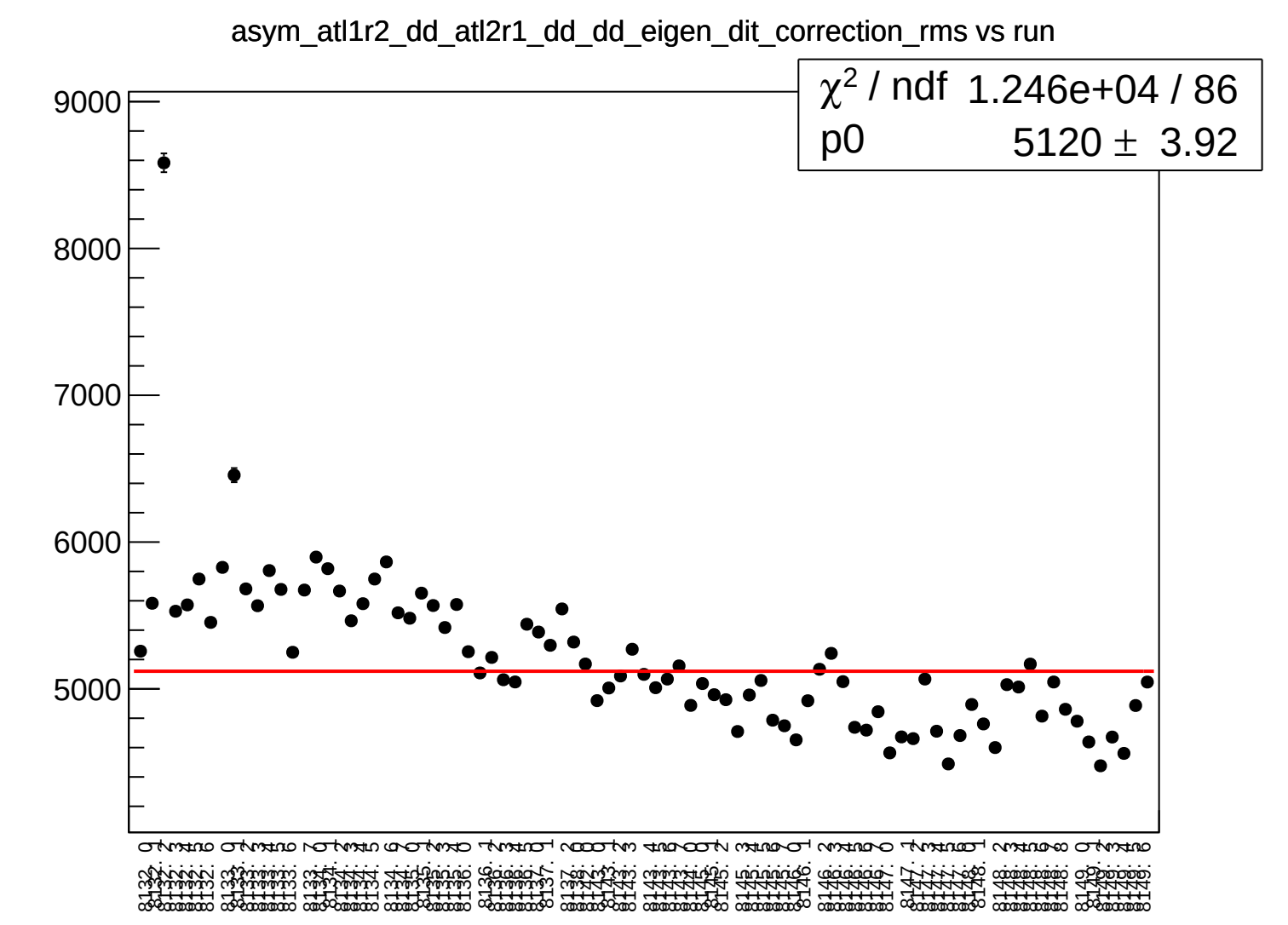

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 74.9 / 86
p0 −755.4 ± 1386
pull
Entries 87
Mean −1873
Std Dev 0

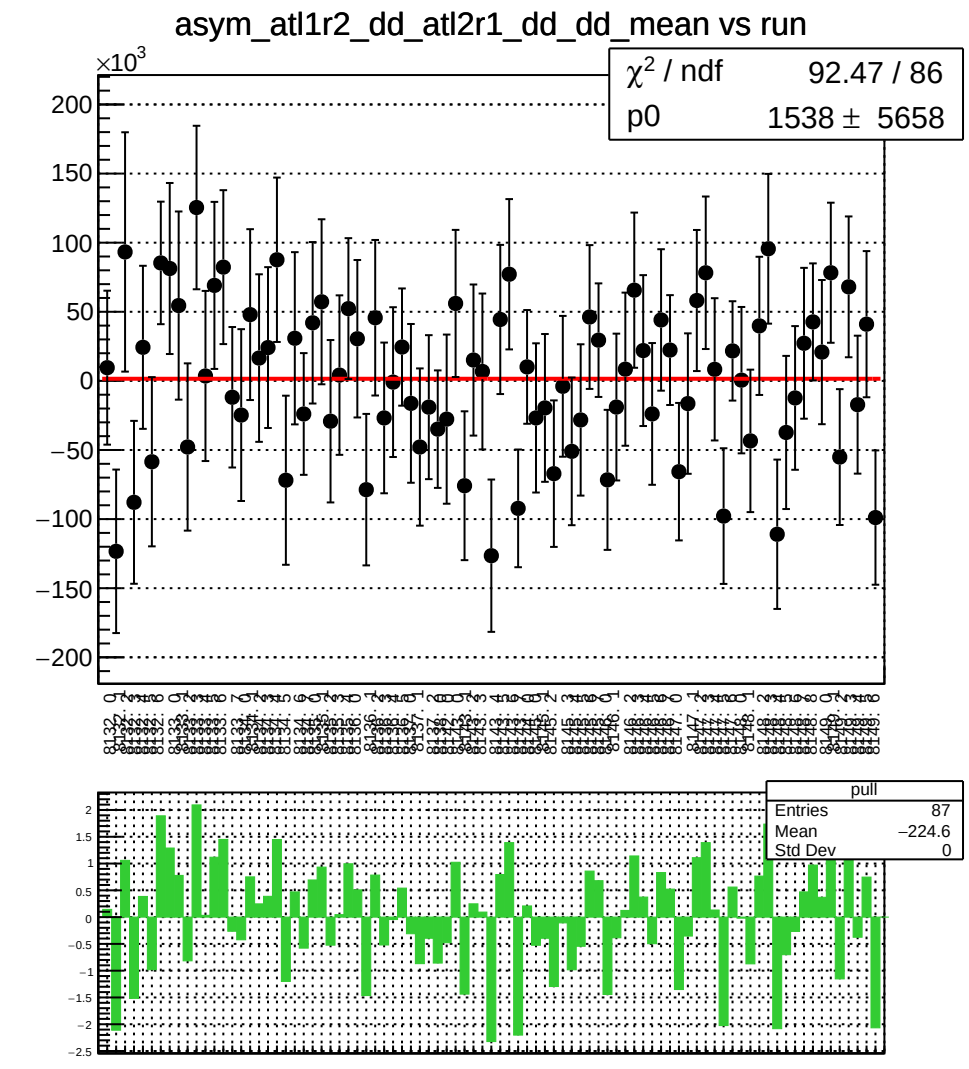

pull1D
Entries 87
Mean −0.001515
Std Dev 0.9278

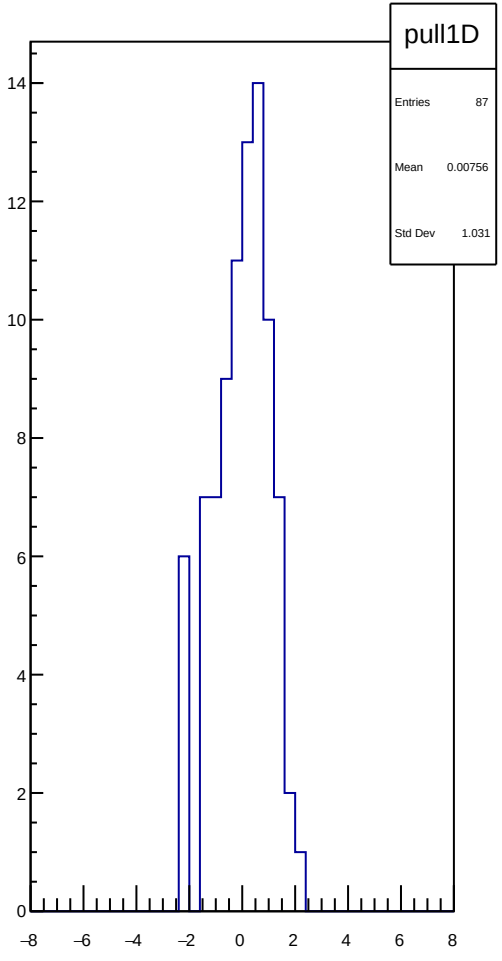

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 3043 / 86
p0 1284 ± 0.98
1800
1700
1600
1500
1400
1300
1200

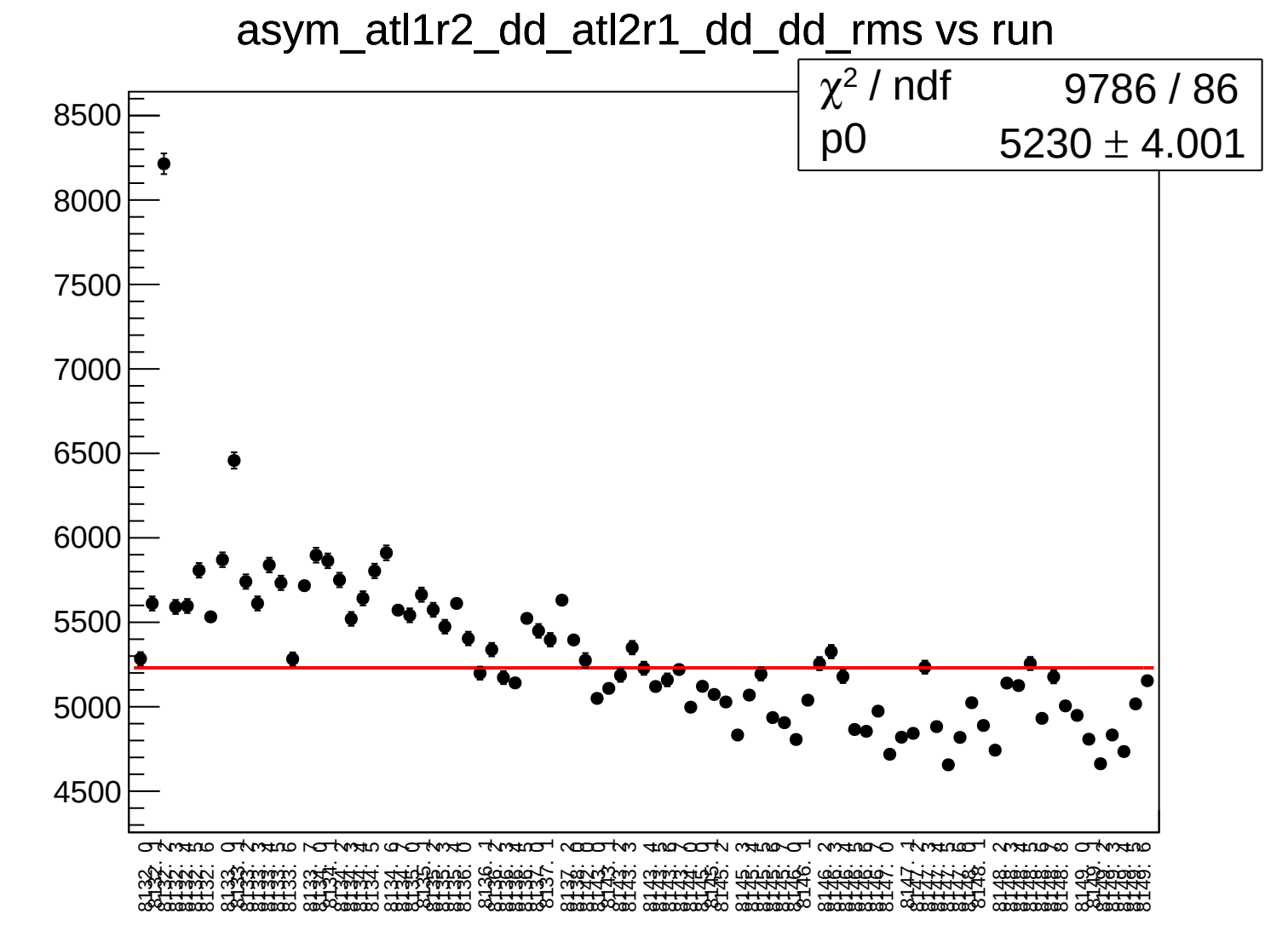

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 92.35 / 86
p0 −2049 ± 5543
pull
Entries 87
Mean −237.1
Std Dev 0

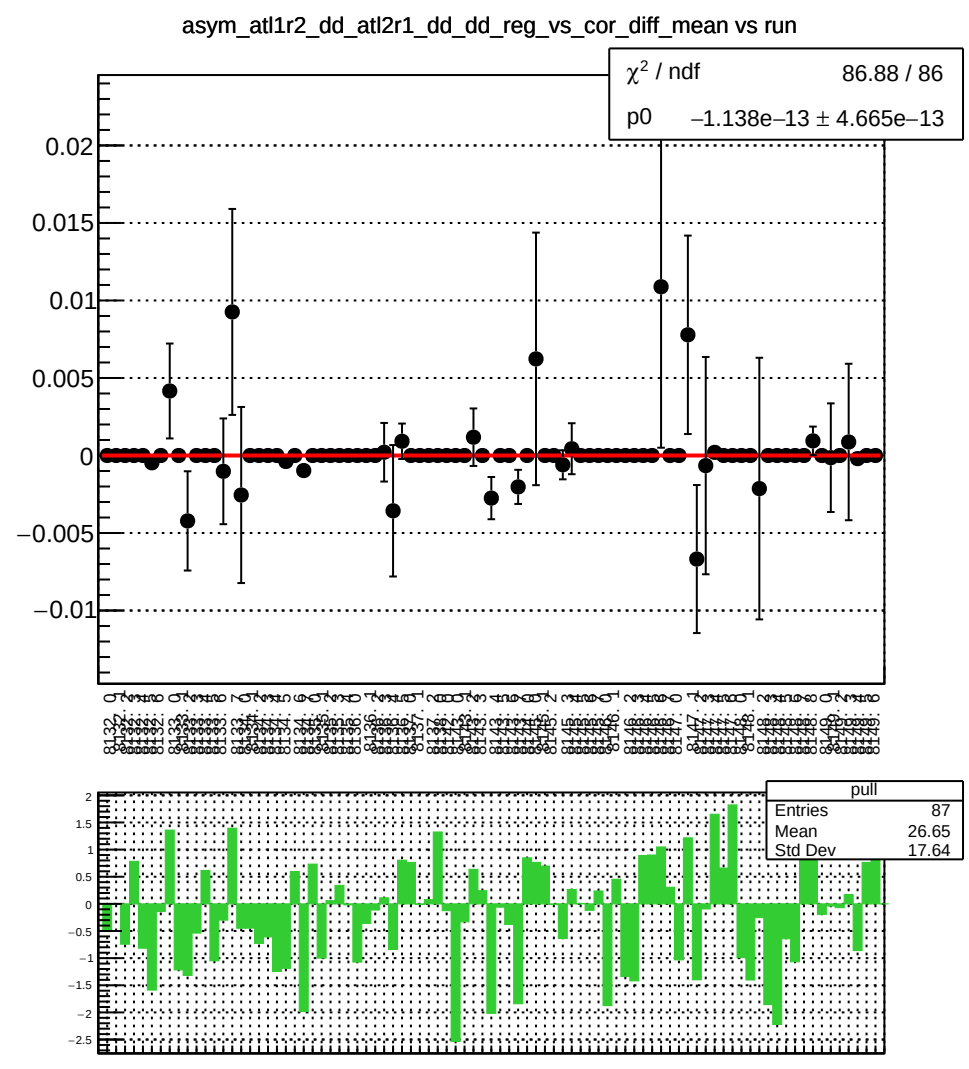

pull1D
Entries 87
Mean −0.009916
Std Dev 1.03

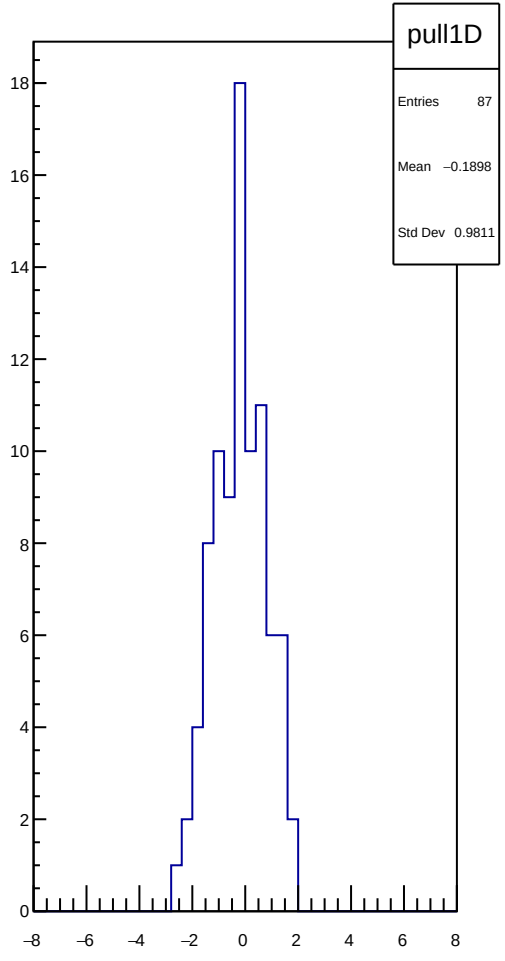

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.246e+04 / 86
p0 5120 ± 3.92
9000
8000
7000
6000
5000

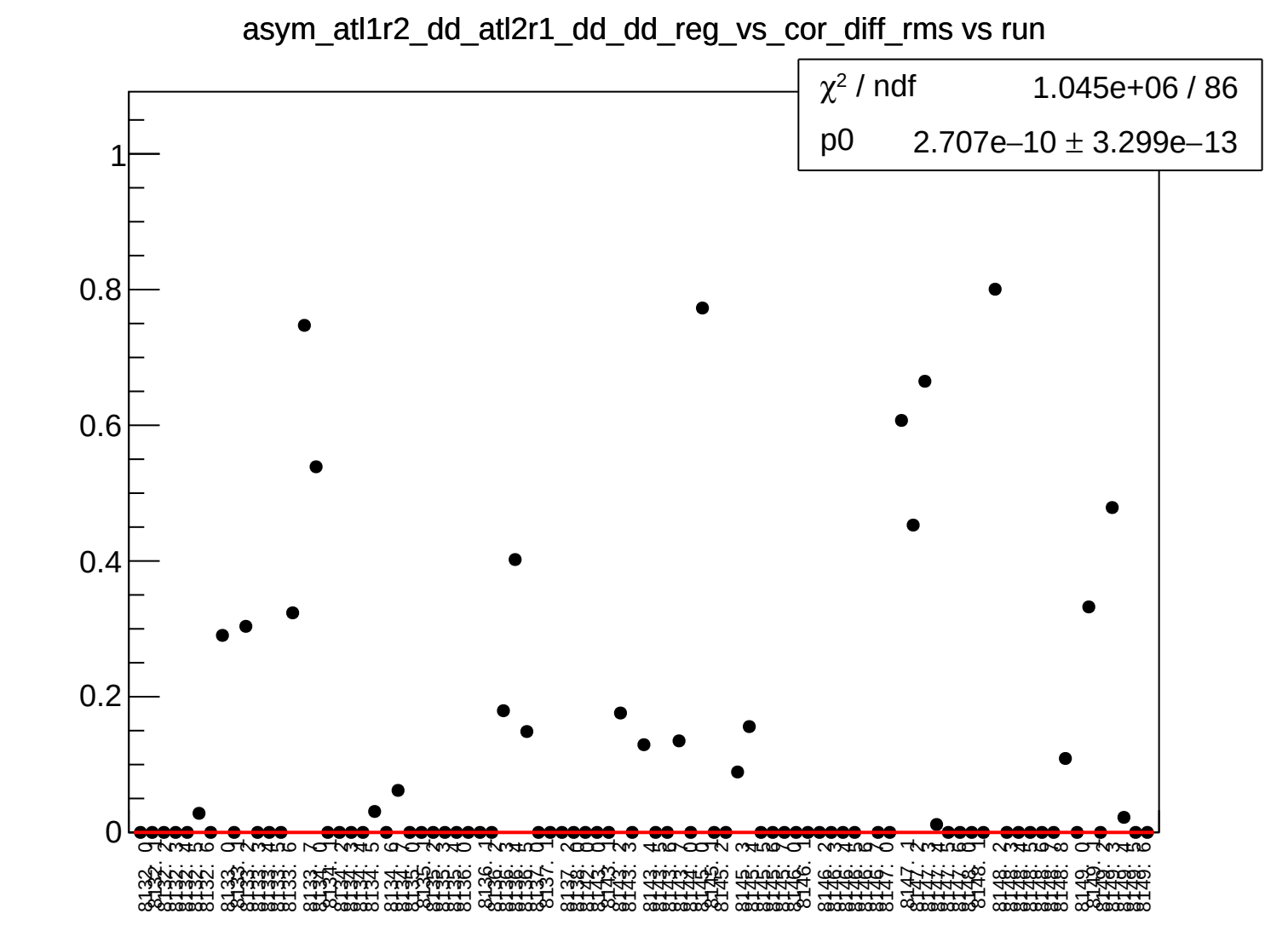

asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
×10^3
χ² / ndf 92.47 / 86
p0 1538 ± 5658
pull
Entries 87
Mean −224.6
Std Dev 0

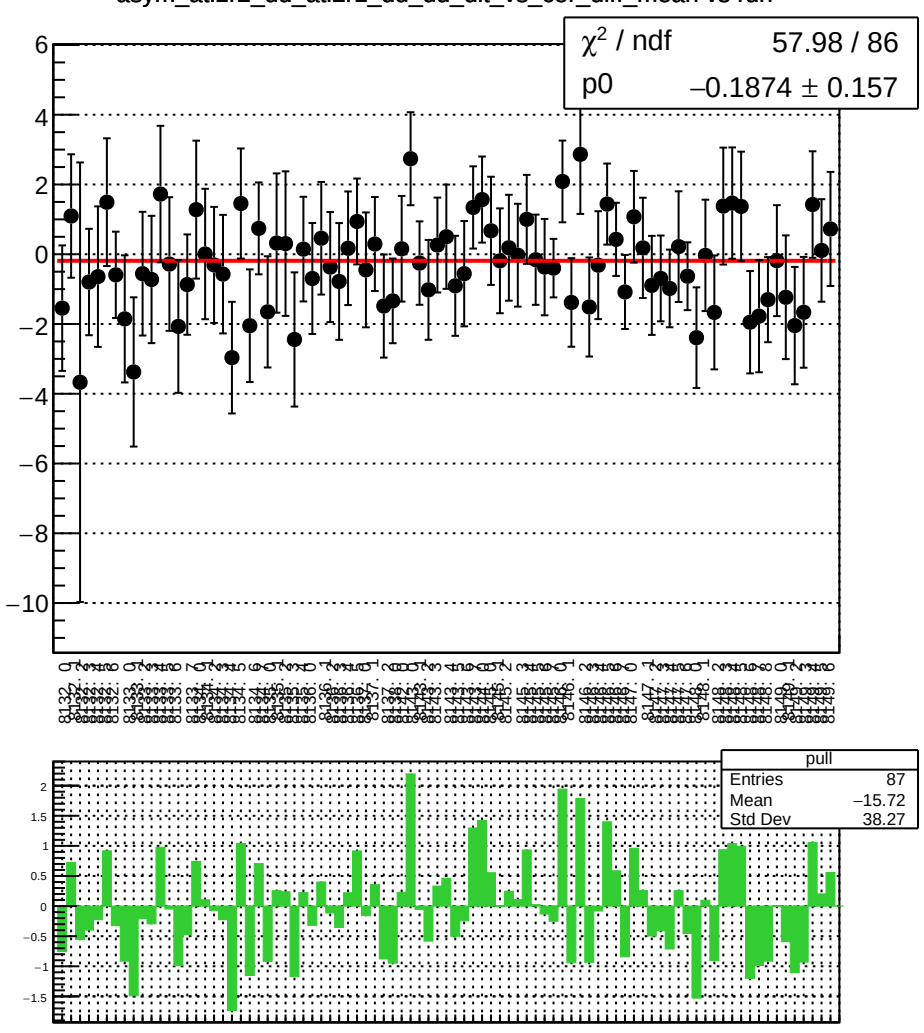

pull1D
Entries 87
Mean 0.00756
Std Dev 1.031

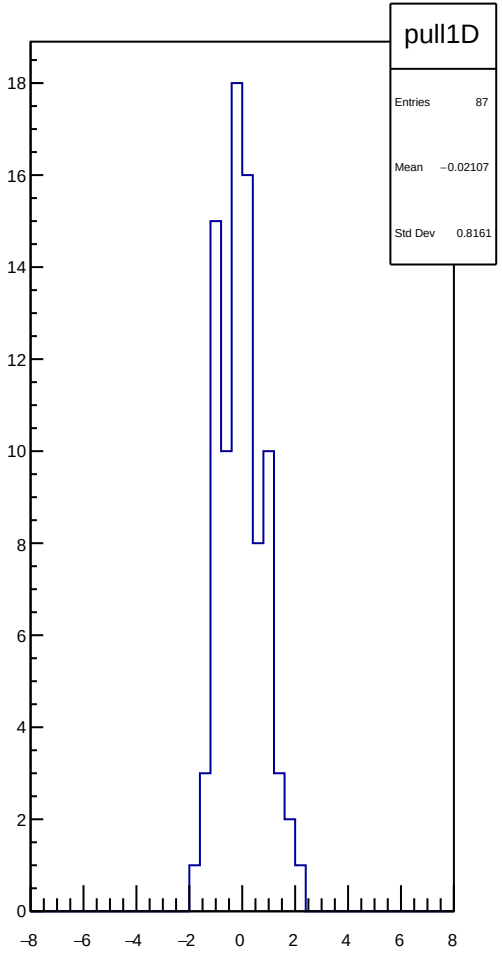

asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 9786 / 86
p0 5230 ± 4.001
8500
8000
7500
7000
6500
6000
5500
5000
4500

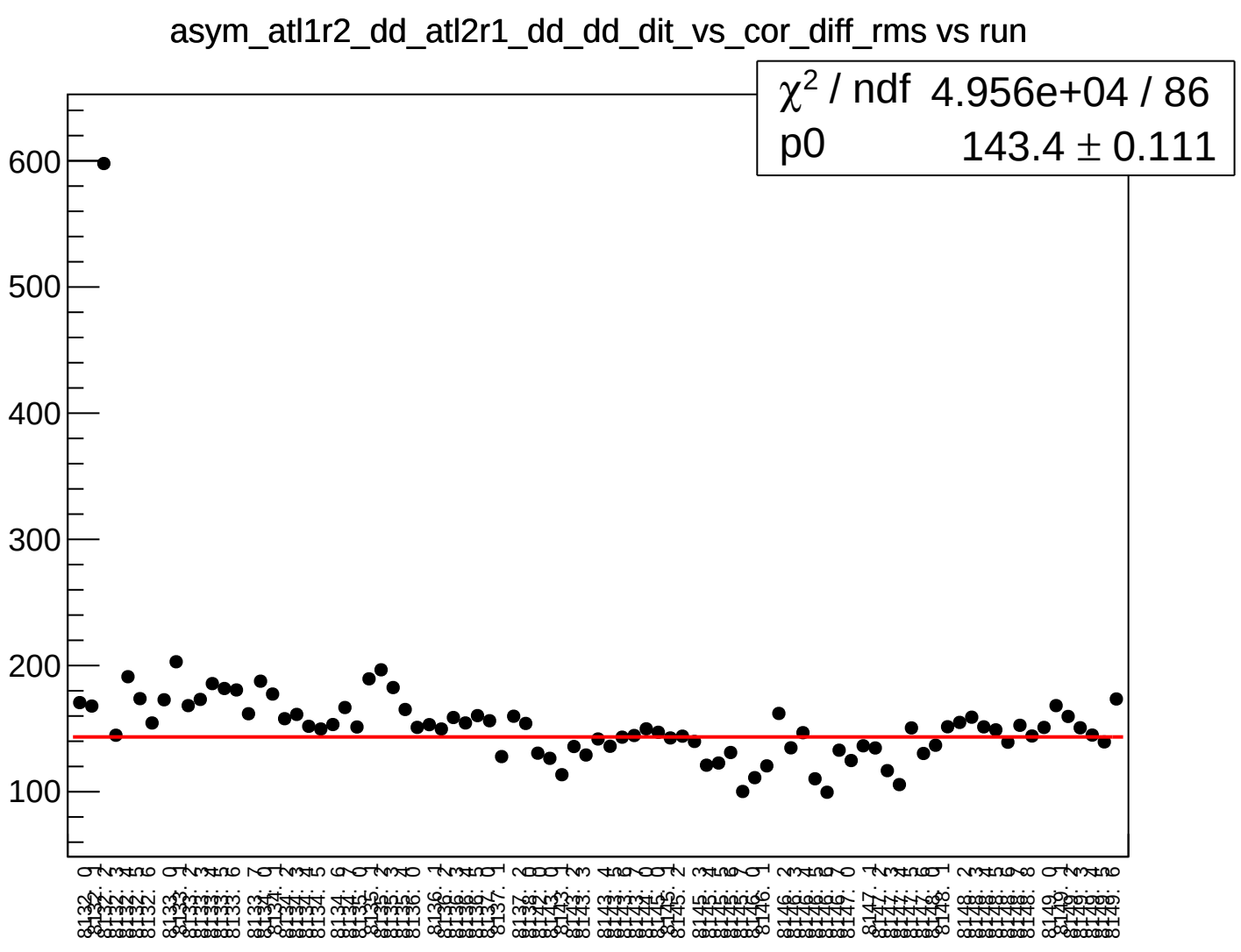

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 86.88 / 86
p0 −1.138e−13 ± 4.665e−13
pull
Entries 87
Mean 26.65
Std Dev 17.64

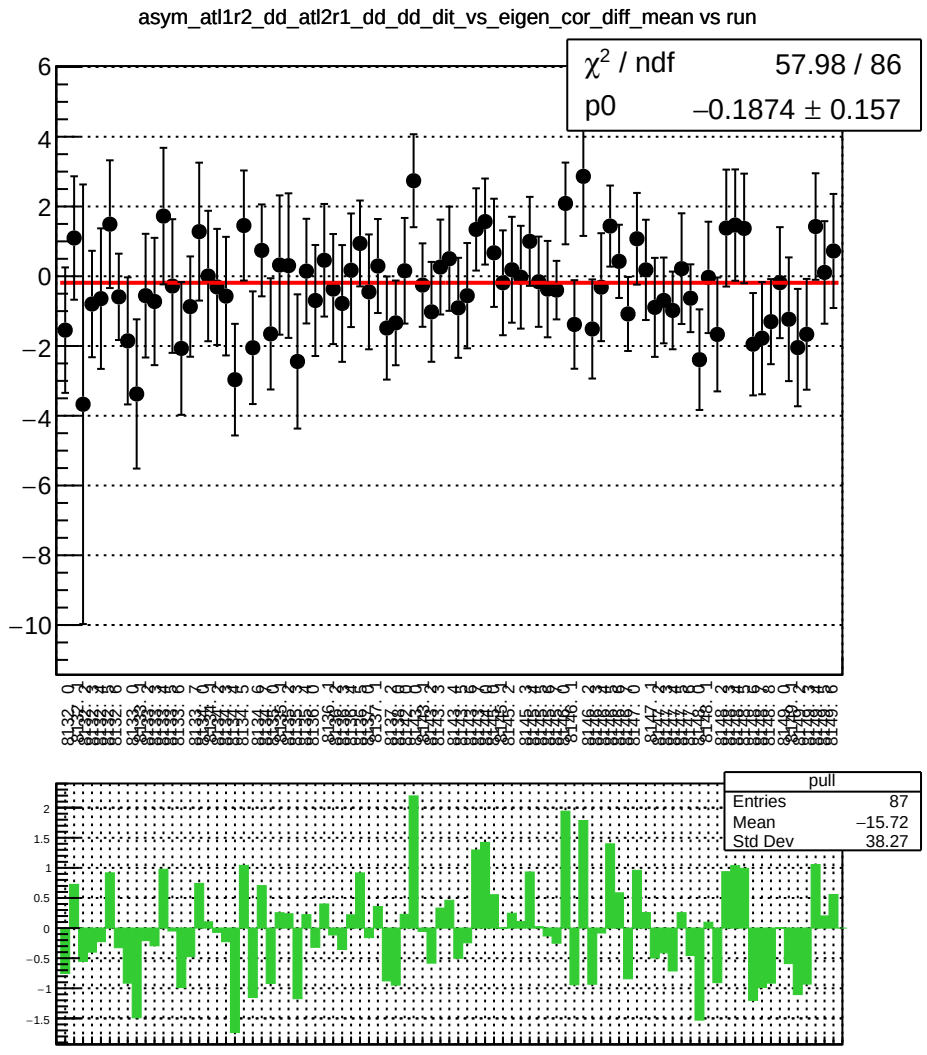

pull1D
Entries 87
Mean −0.1898
Std Dev 0.9811

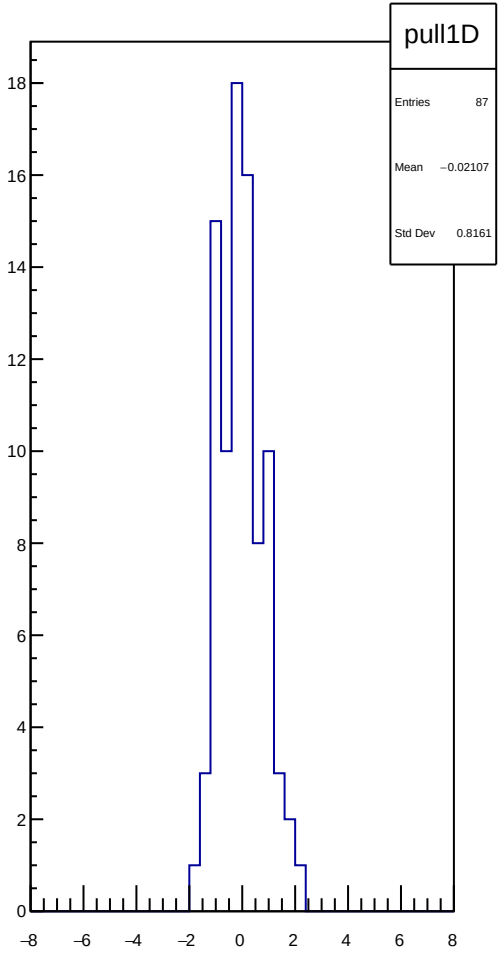

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.045e+06 / 86
p0 2.707e−10 ± 3.299e−13
1
0.8
0.6
0.4
0.2
0

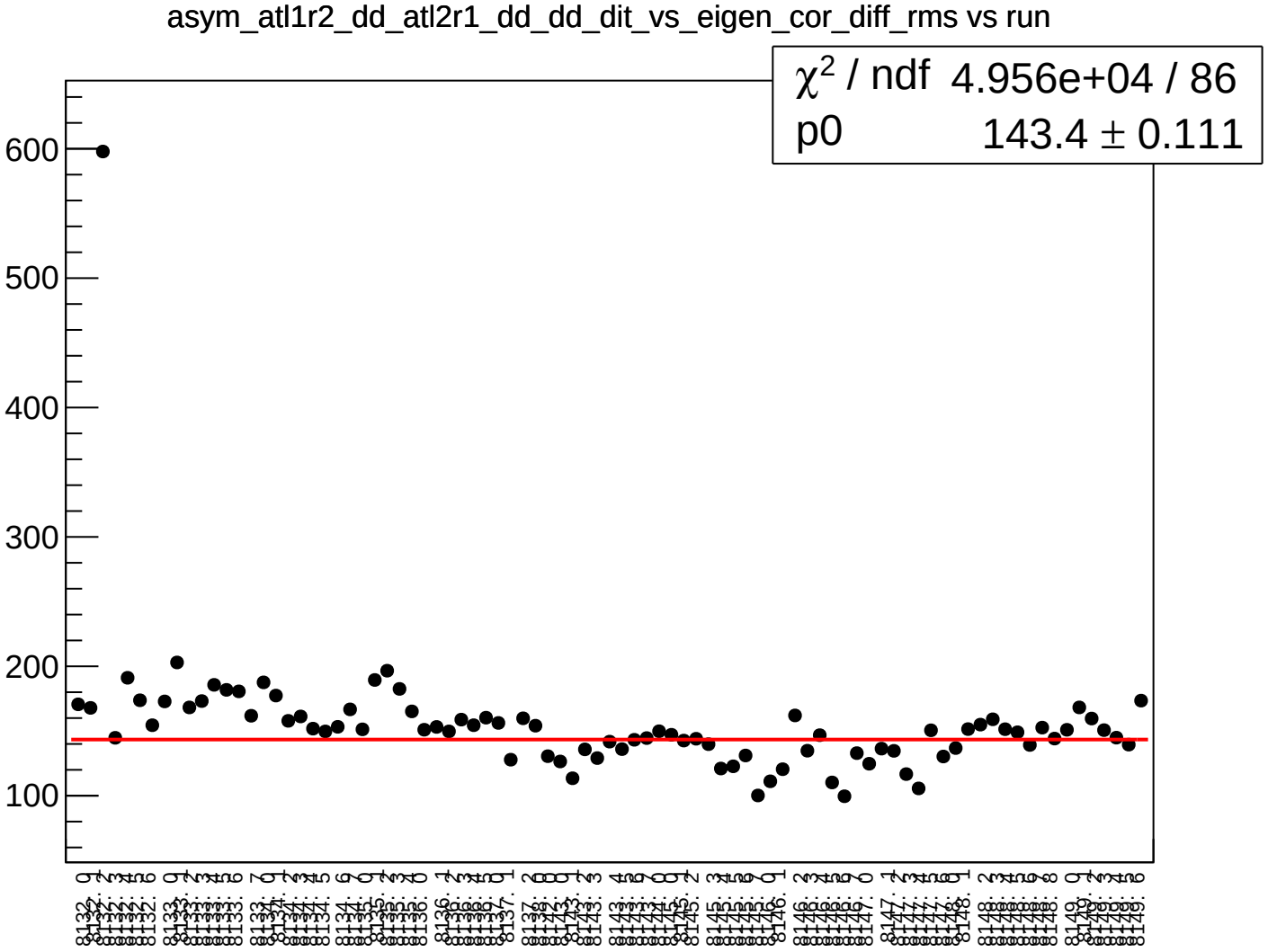

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 57.98 / 86
p0 −0.1874 ± 0.157
pull
Entries 87
Mean −15.72
Std Dev 38.27

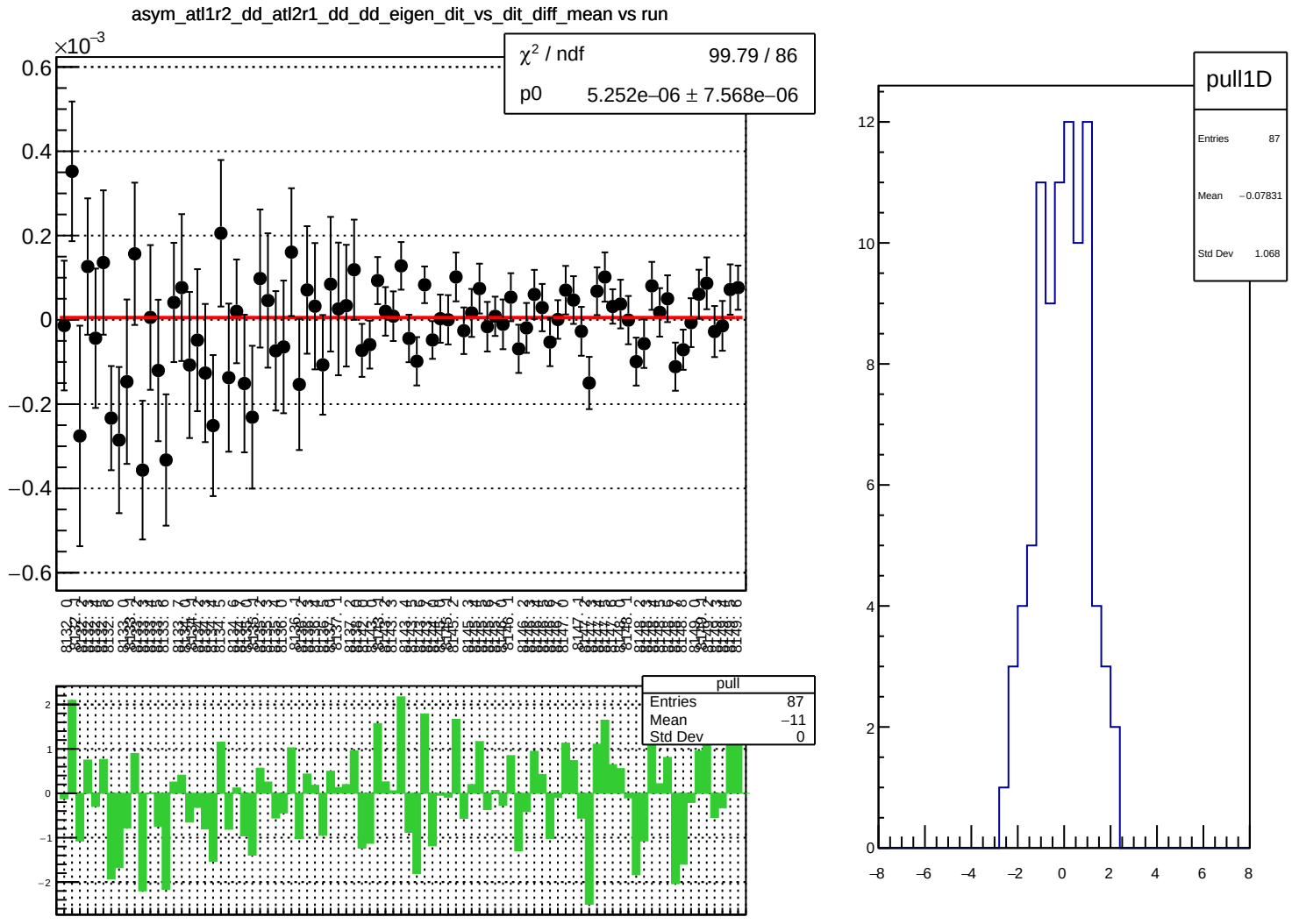

pull1D
Entries 87
Mean −0.02107
Std Dev 0.8161

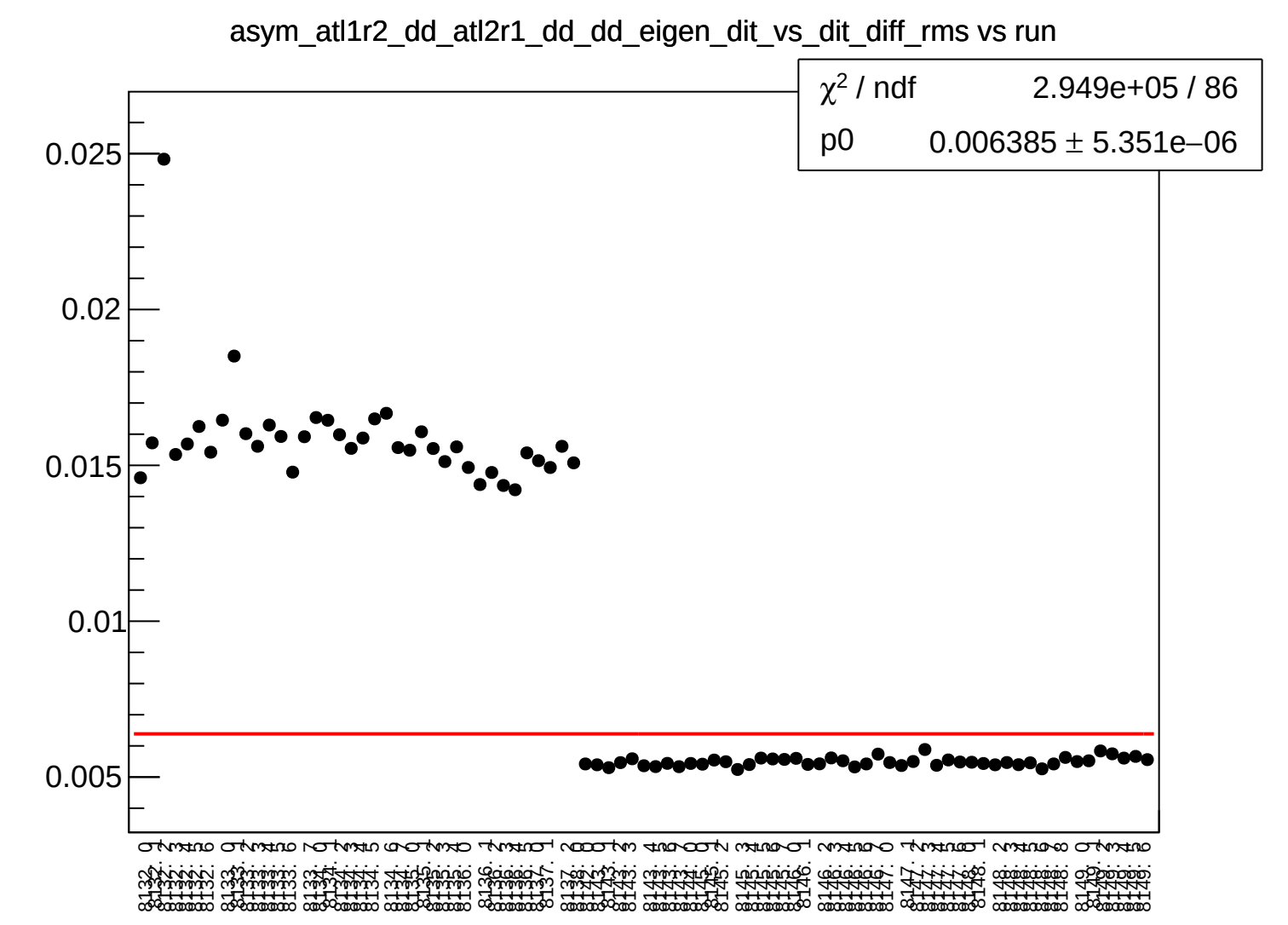

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.956e+04 / 86
p0 143.4 ± 0.111
600
500
400
300
200
100

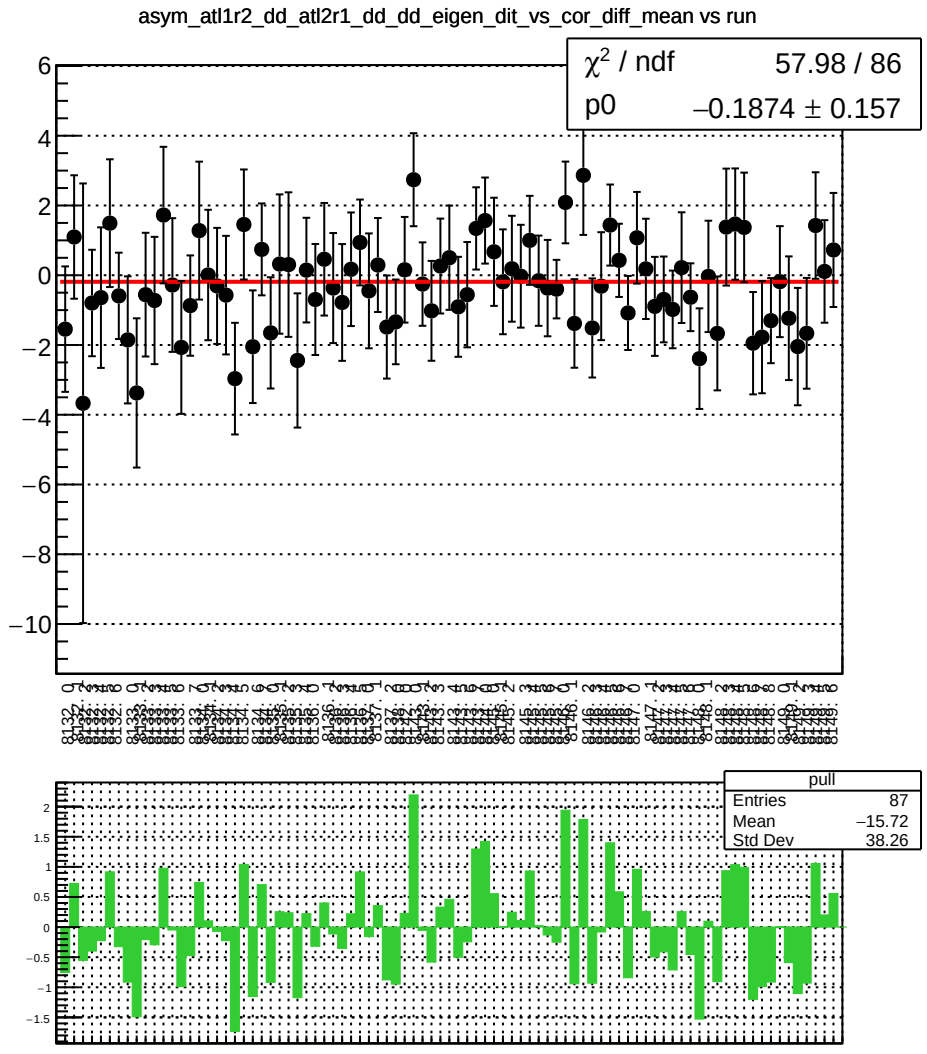

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 57.98 / 86
p0 −0.1874 ± 0.157
pull
Entries 87
Mean −15.72
Std Dev 38.27

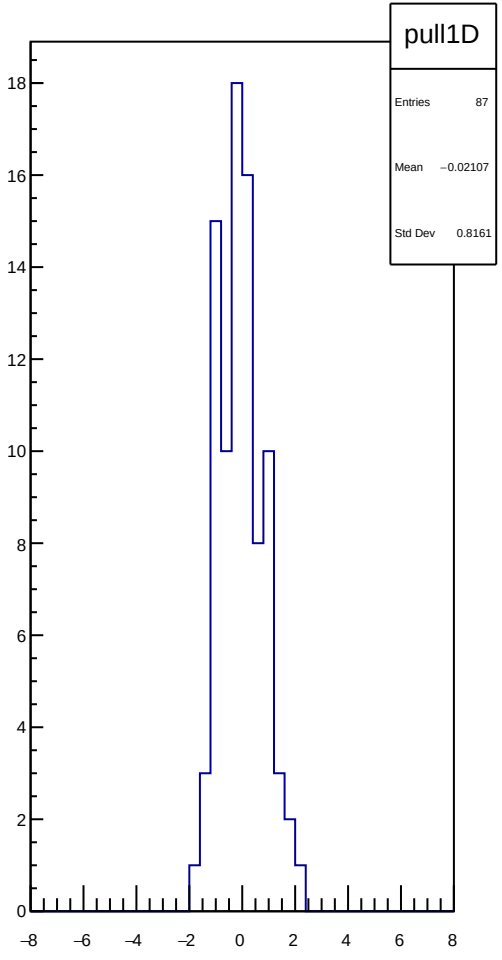

pull1D
Entries 87
Mean −0.02107
Std Dev 0.8161

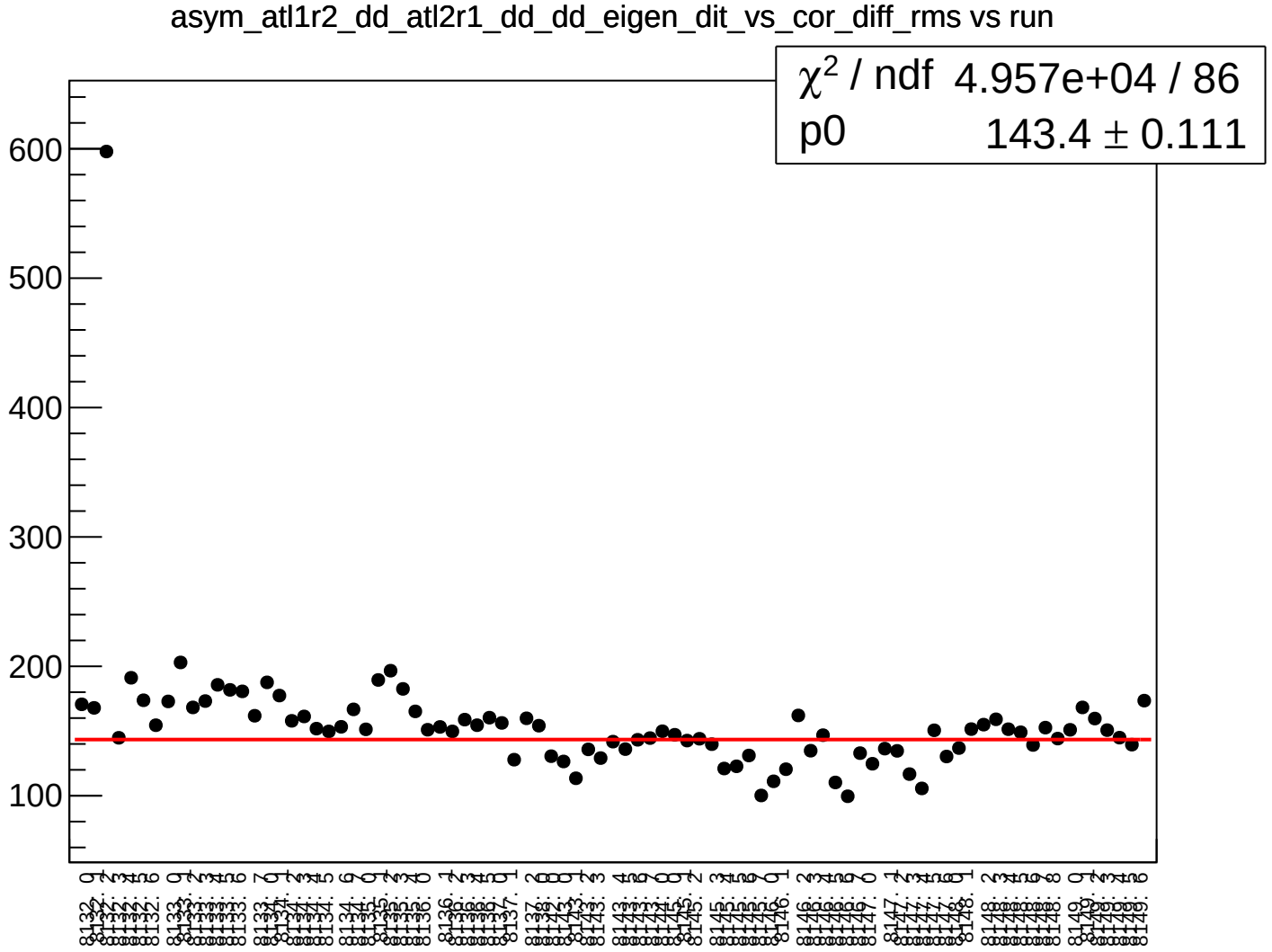

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.956e+04 / 86
p0 143.4 ± 0.111
600
500
400
300
200
100

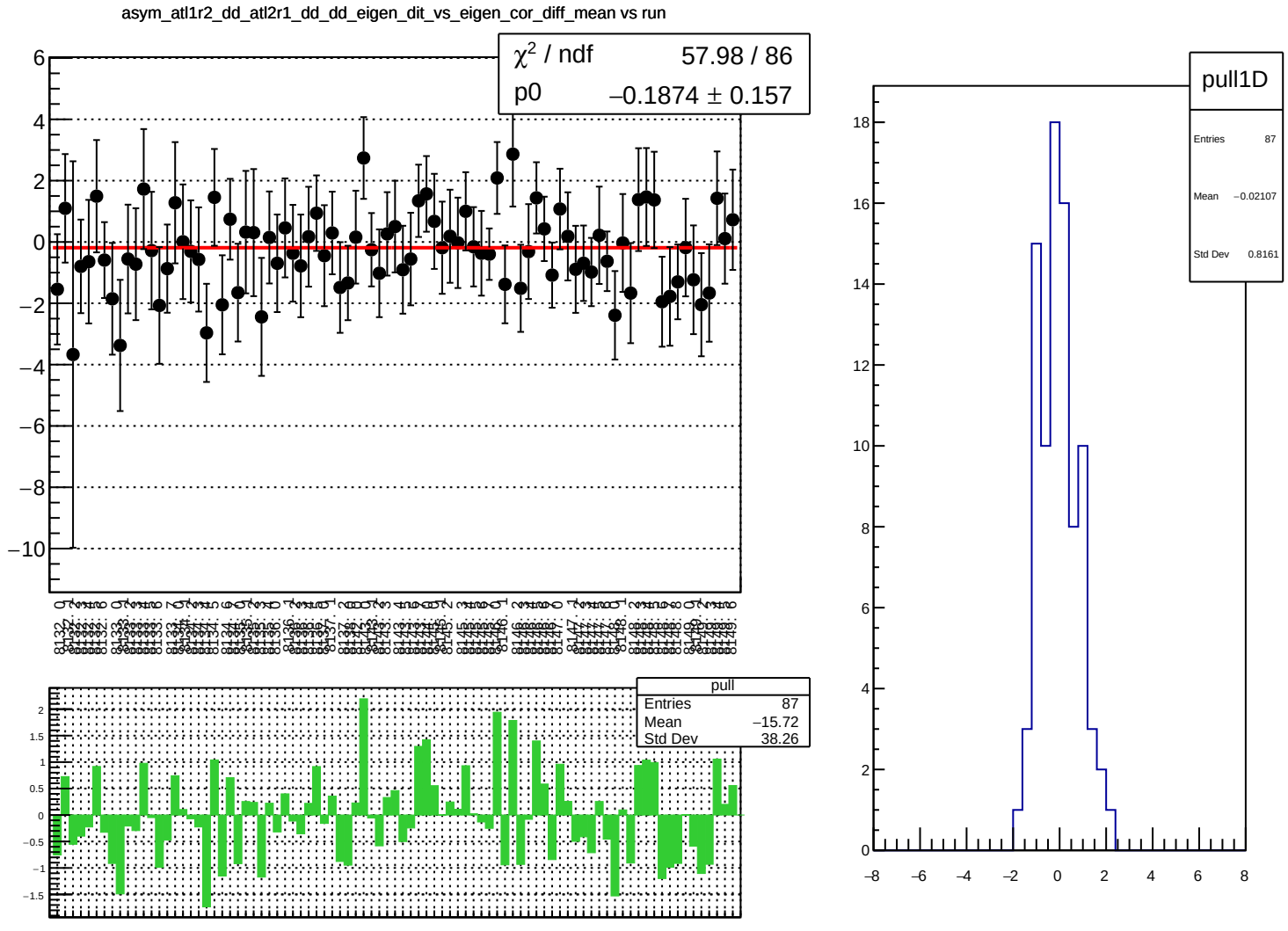

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.79 / 86
p0 5.252e−06 ± 7.568e−06
pull
Entries 87
Mean −11
Std Dev 0
pull1D
Entries 87
Mean −0.07831
Std Dev 1.068

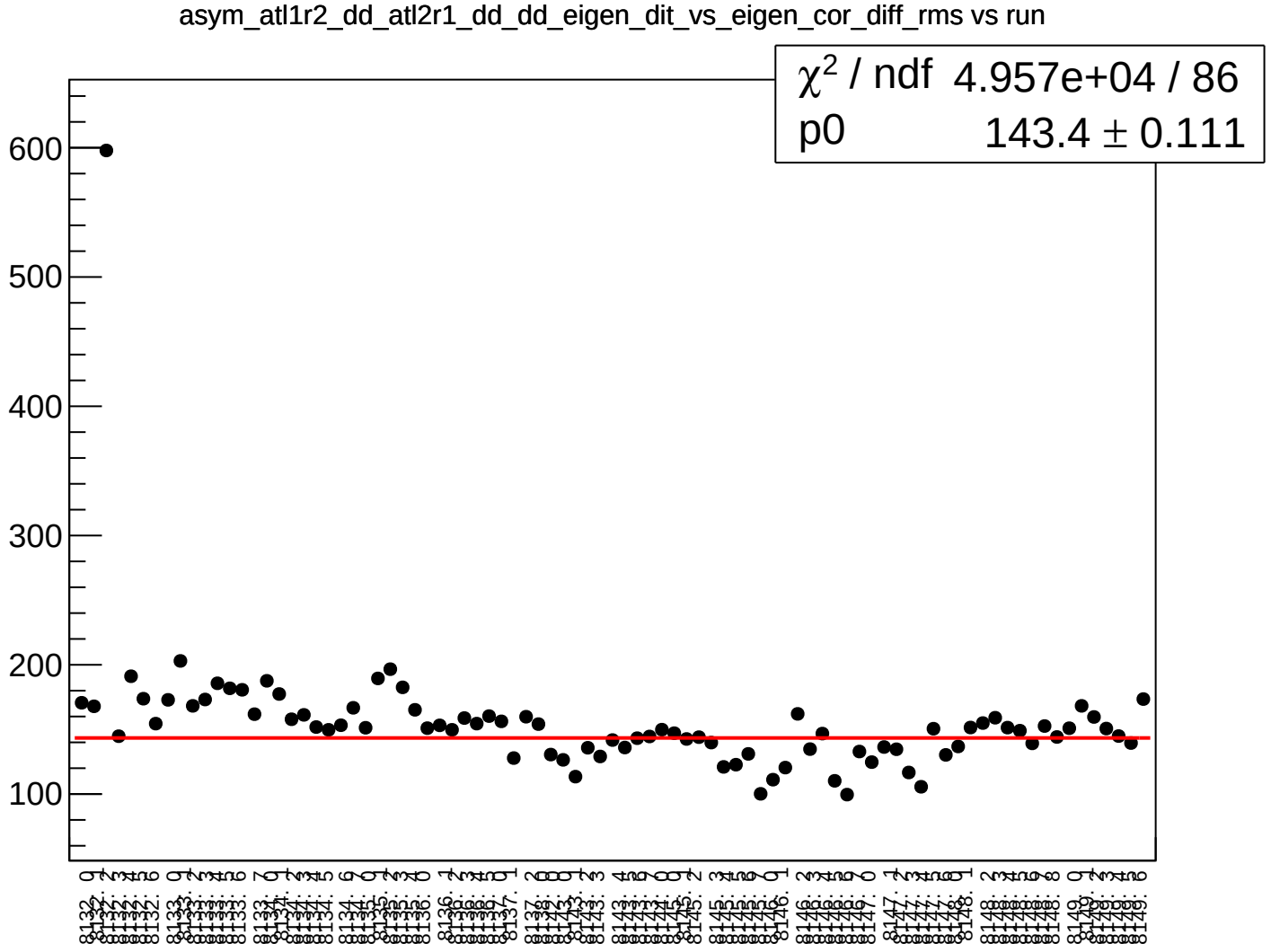

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.949e+05 / 86
p0 0.006385 ± 5.351e−06
0.025
0.02
0.015
0.01
0.005

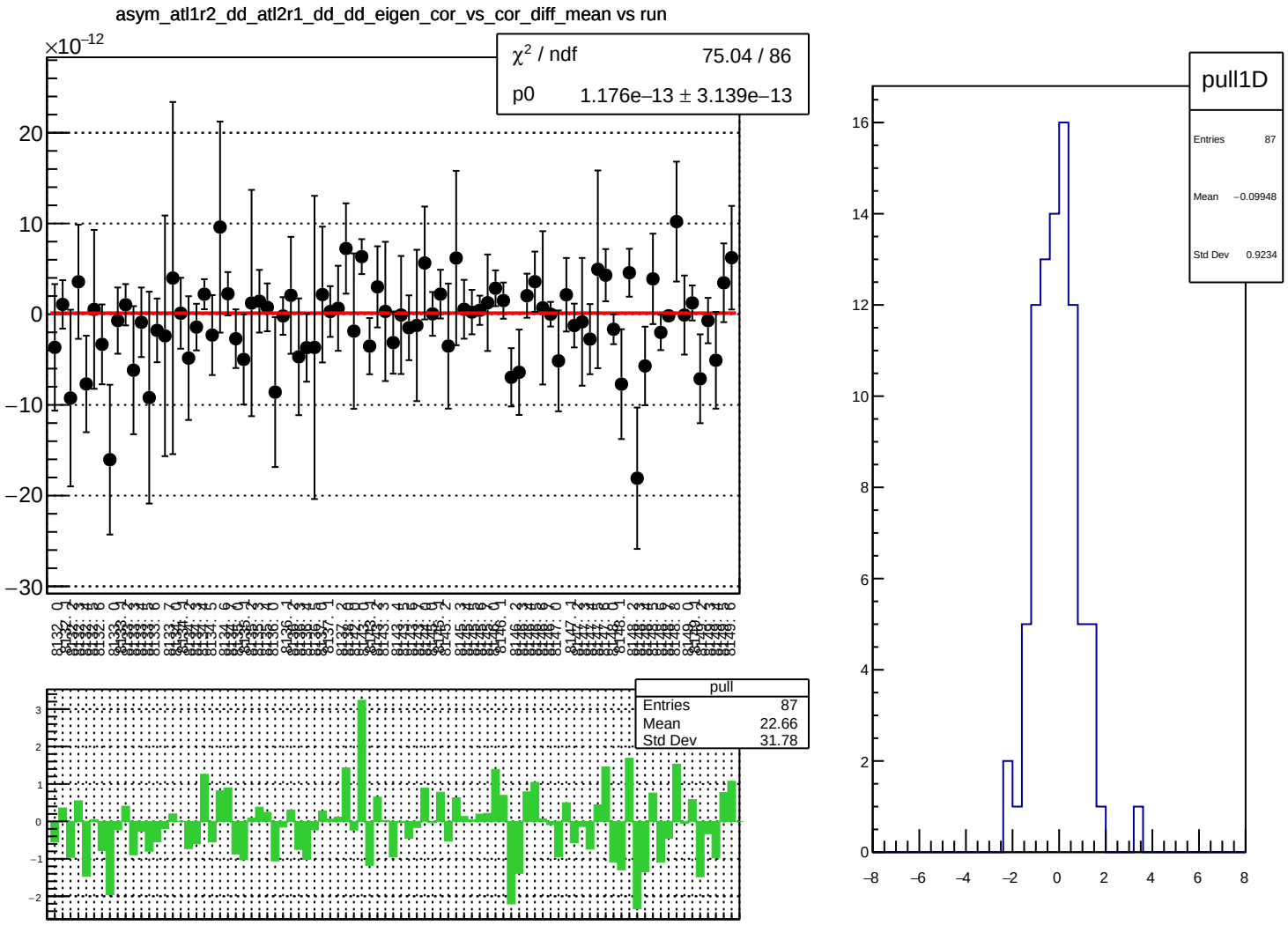

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 57.98 / 86
p0 −0.1874 ± 0.157
pull
Entries 87
Mean −15.72
Std Dev 38.26

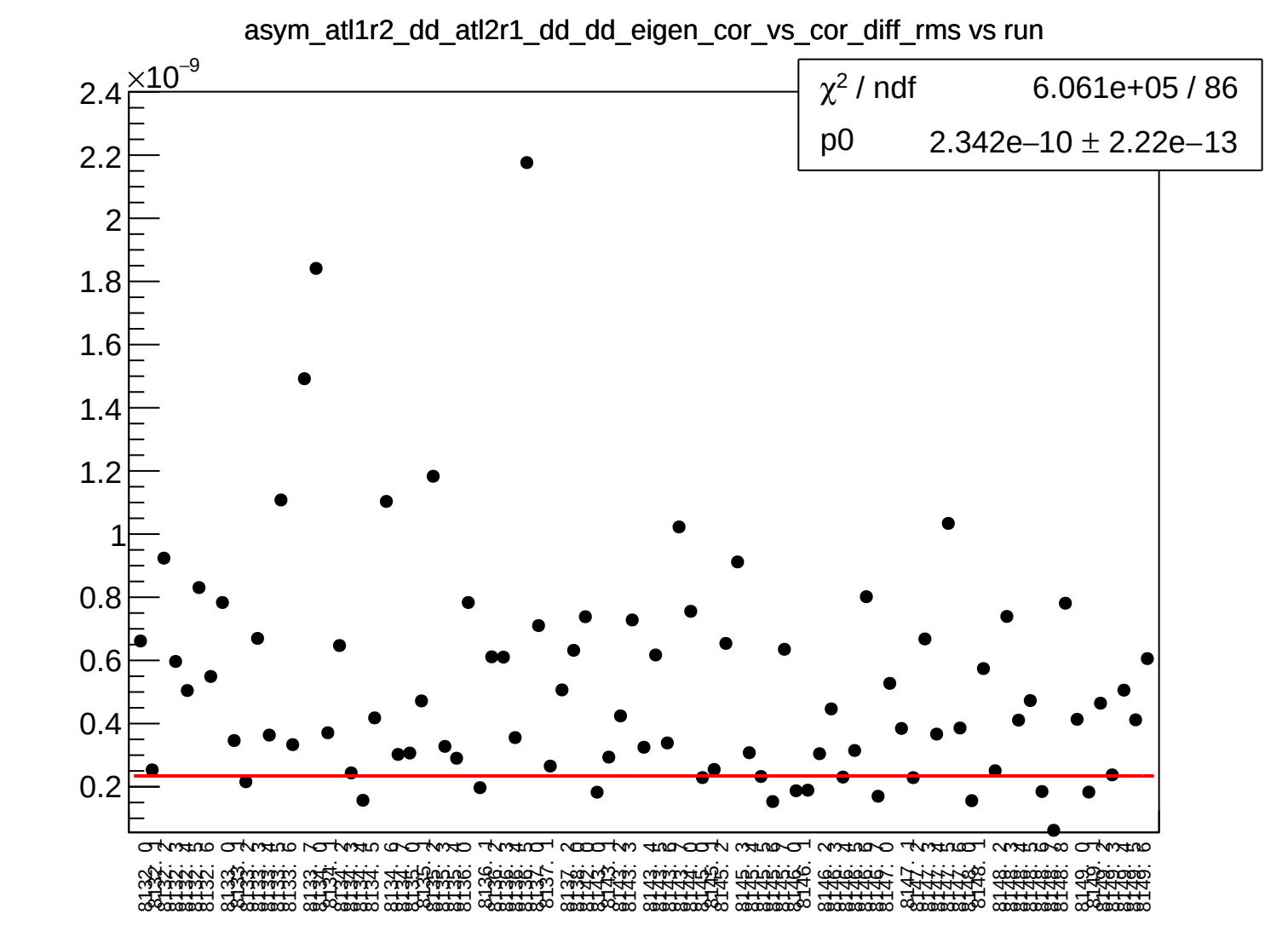

pull1D
Entries 87
Mean −0.02107
Std Dev 0.8161

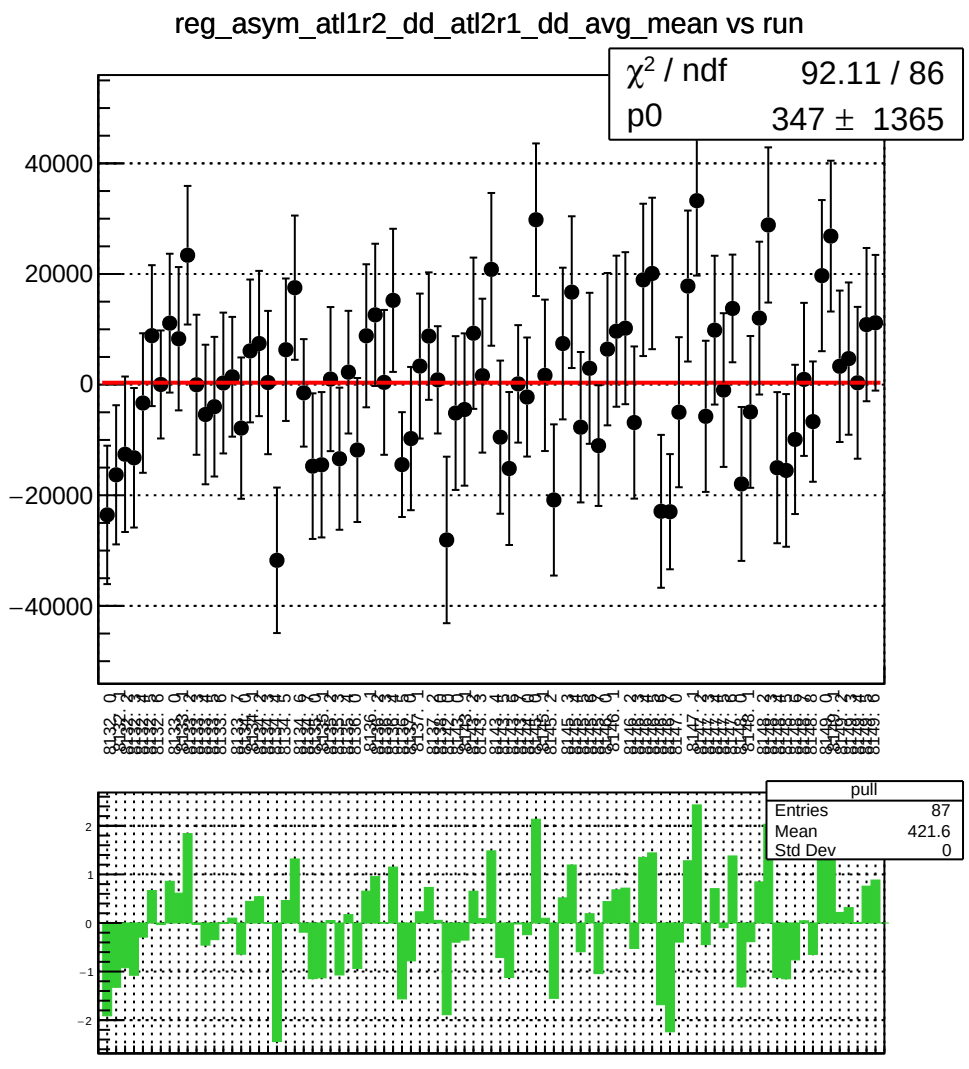

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.957e+04 / 86
p0 143.4 ± 0.111
600
500
400
300
200
100

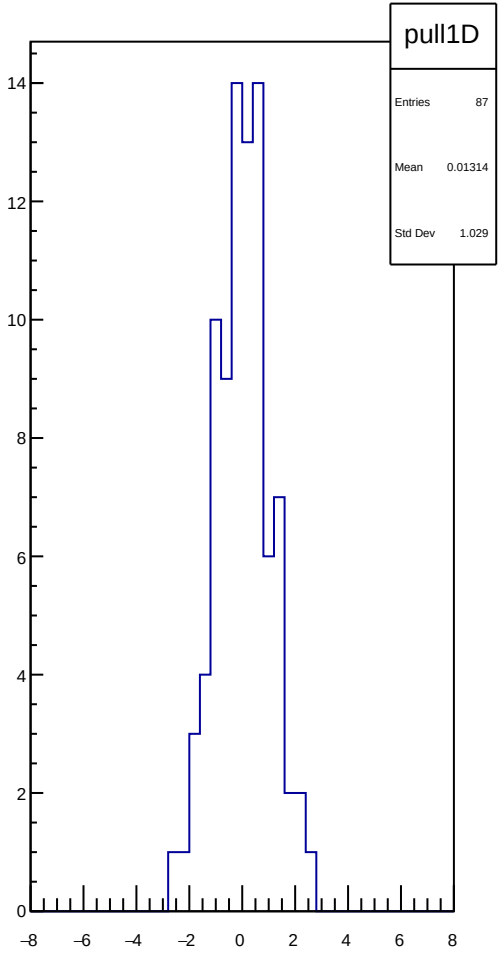

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 57.98 / 86
p0 −0.1874 ± 0.157
pull
Entries 87
Mean −15.72
Std Dev 38.26
pull1D
Entries 87
Mean −0.02107
Std Dev 0.8161

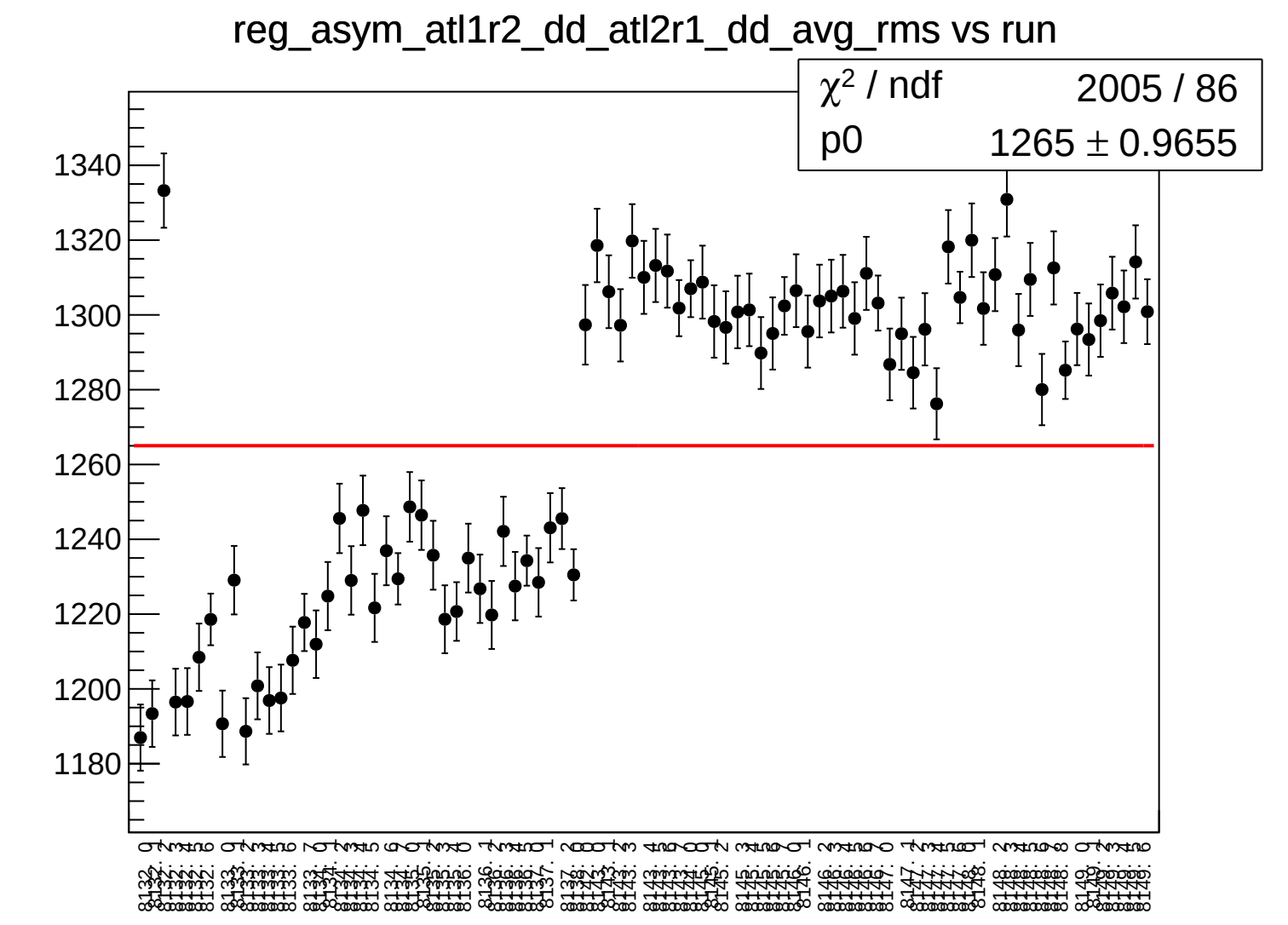

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.957e+04 / 86
p0 143.4 ± 0.111
600
500
400
300
200
100

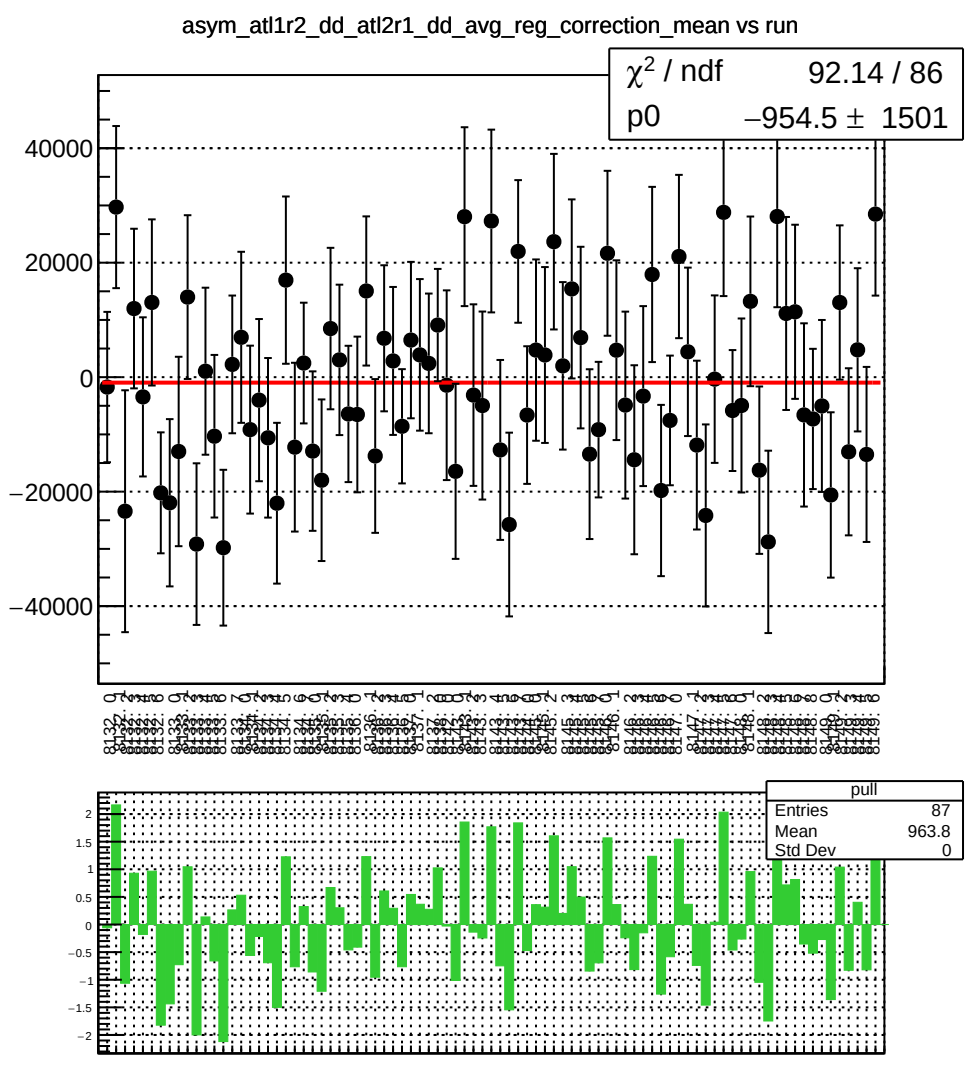

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 75.04 / 86
p0 1.176e−13 ± 3.139e−13
pull
Entries 87
Mean 22.66
Std Dev 31.78
pull1D
Entries 87
Mean −0.09948
Std Dev 0.9234

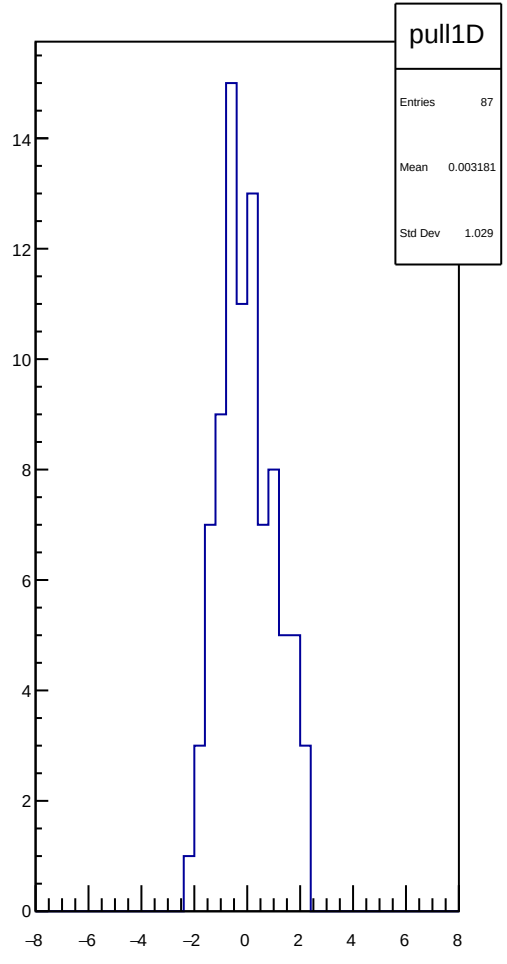

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.061e+05 / 86
p0 2.342e−10 ± 2.22e−13
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

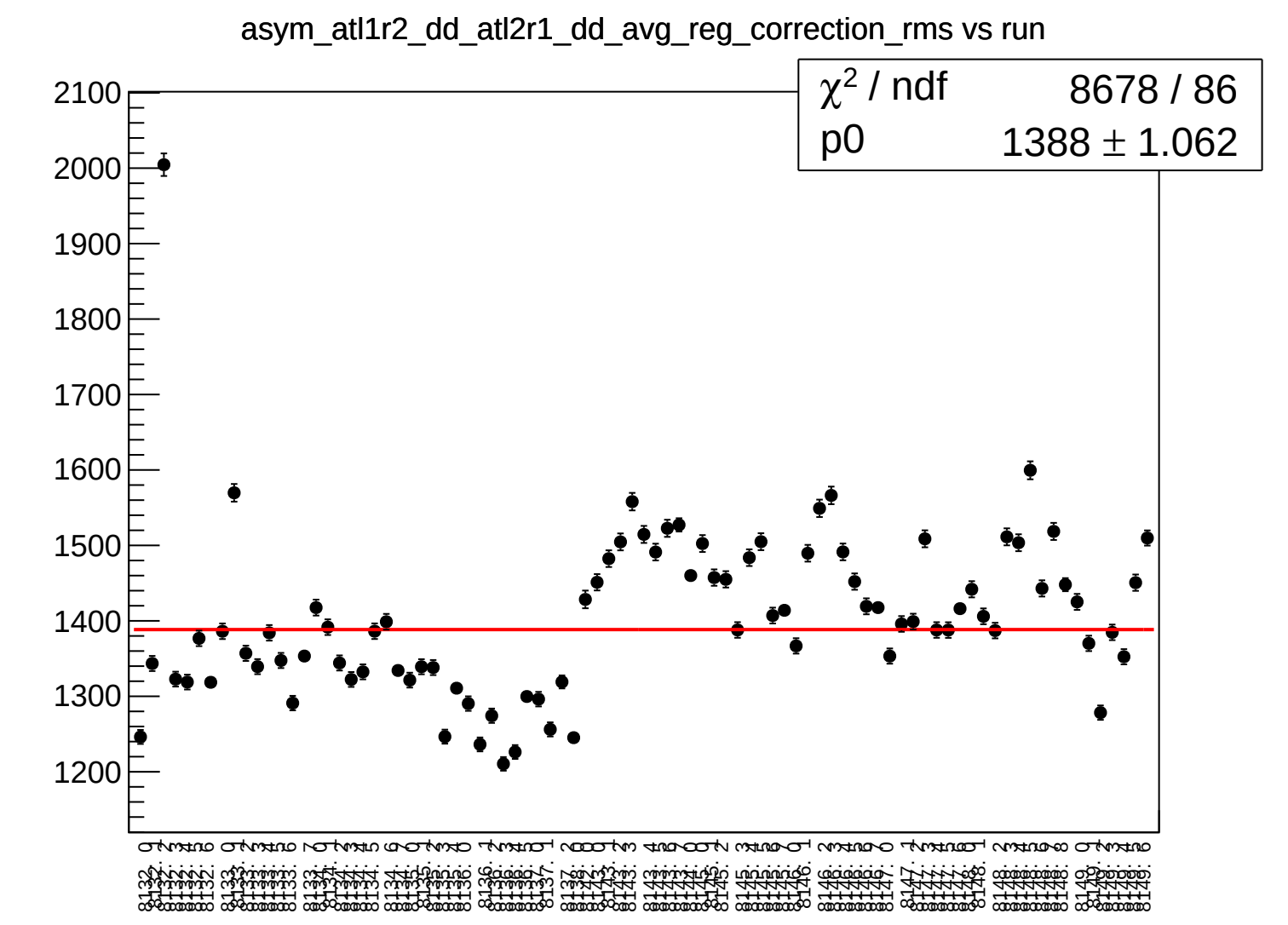

reg_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 92.11 / 86
p0 347 ± 1365
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 421.6
Std Dev 0
2
1
0
−1
−2

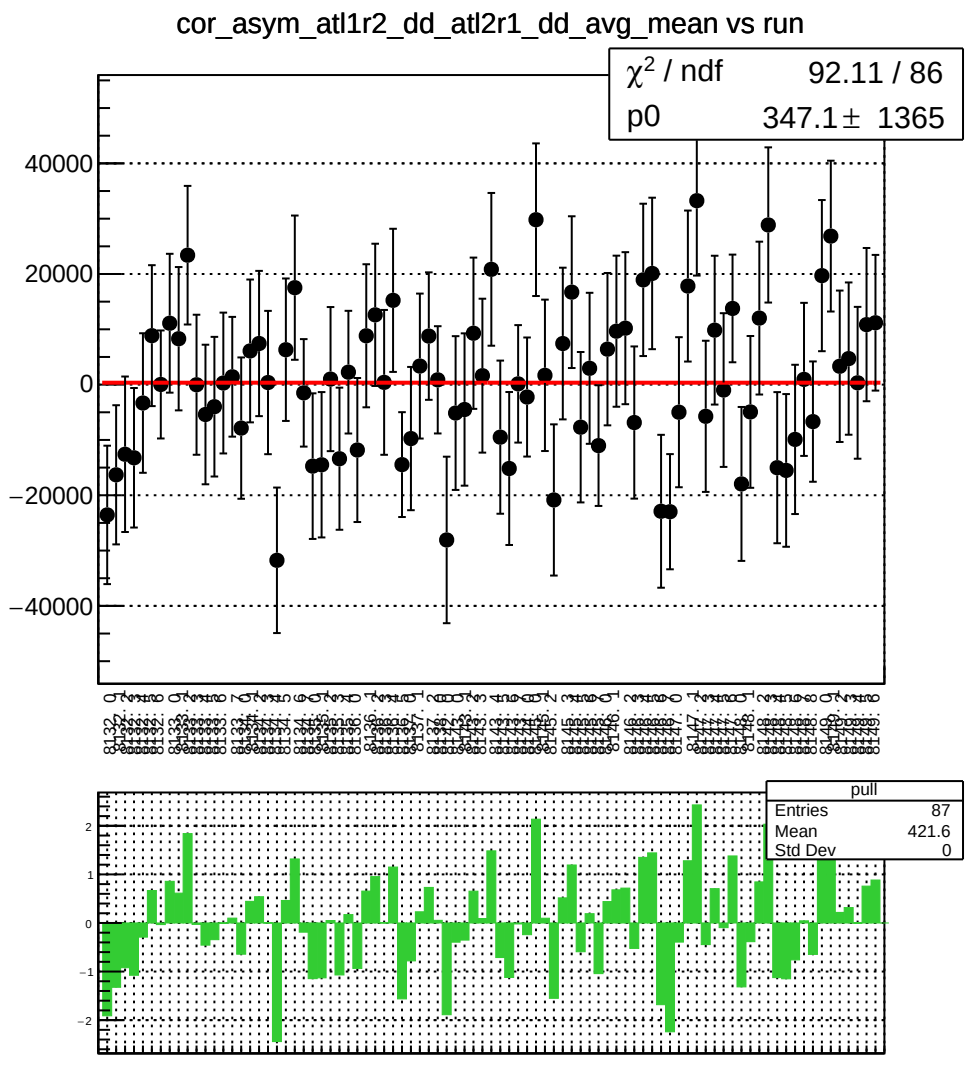

pull1D
Entries 87
Mean 0.01314
Std Dev 1.029
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

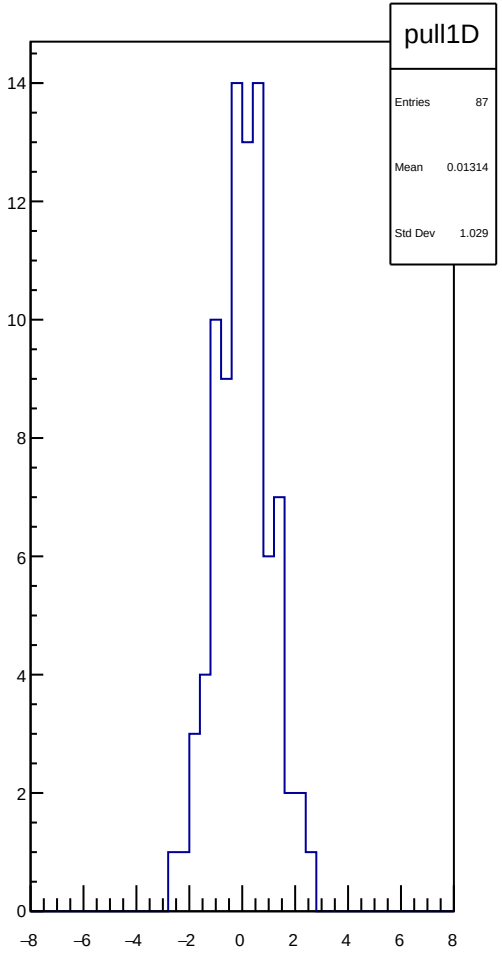

reg_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 2005 / 86
p0 1265 ± 0.9655
1340
1320
1300
1280
1260
1240
1220
1200
1180

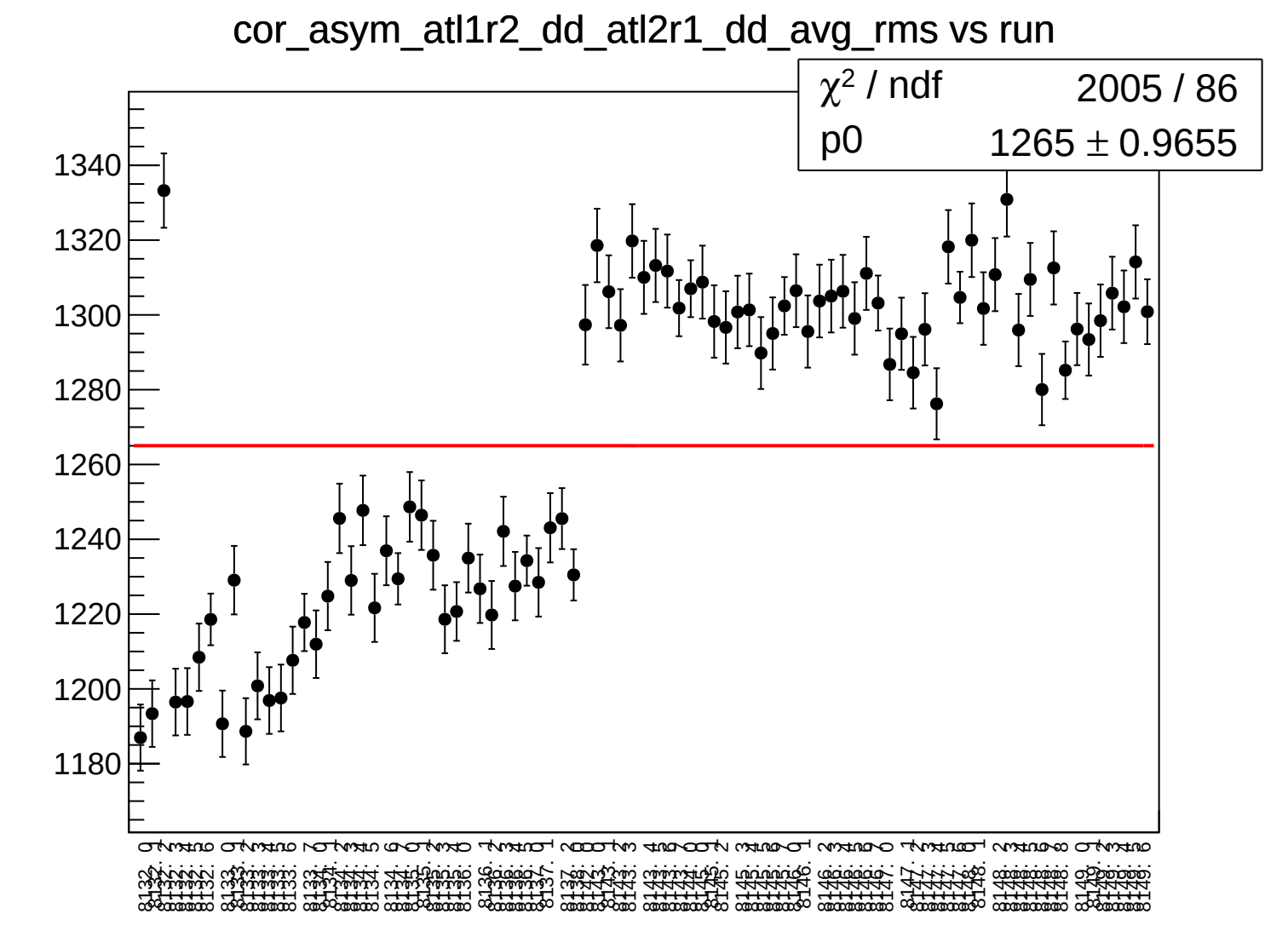

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_mean vs run
χ² / ndf 92.14 / 86
p0 −954.5 ± 1501
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 963.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

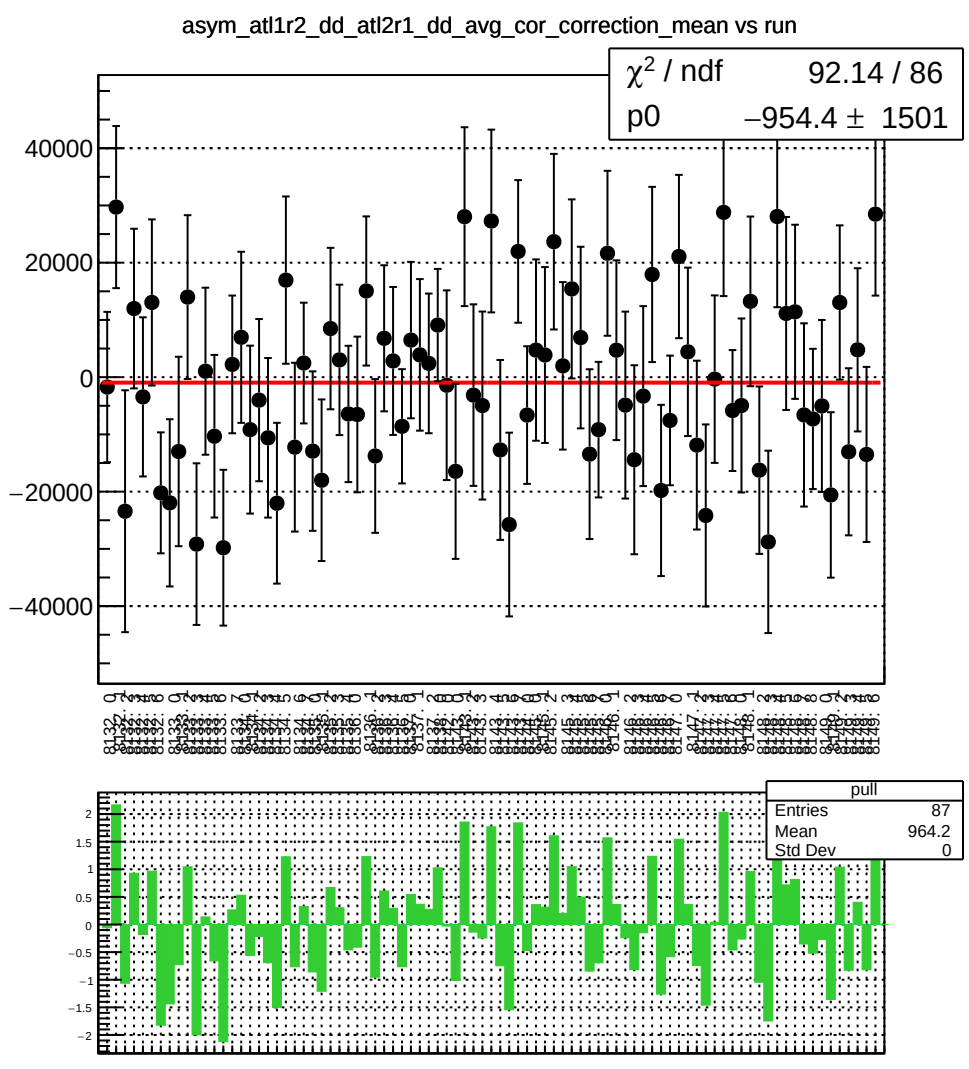

pull1D
Entries 87
Mean 0.003181
Std Dev 1.029
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

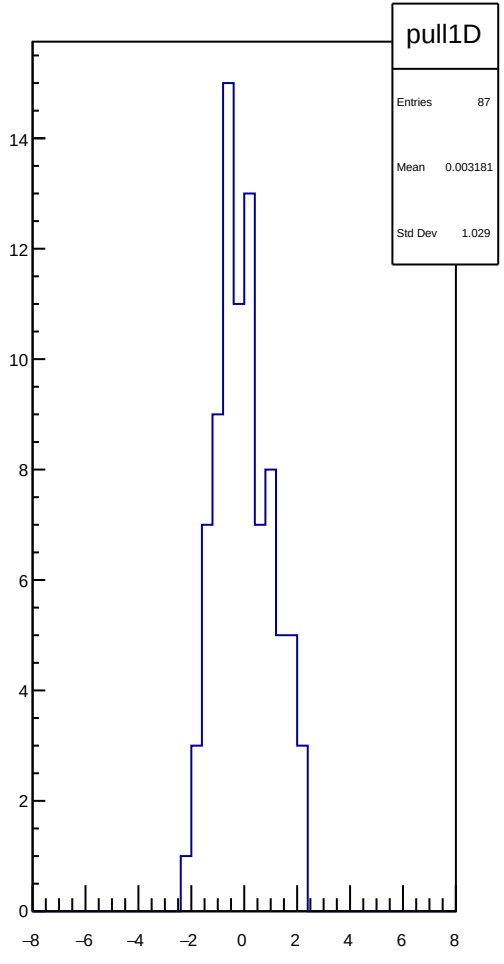

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_rms vs run
χ² / ndf 8678 / 86
p0 1388 ± 1.062
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200

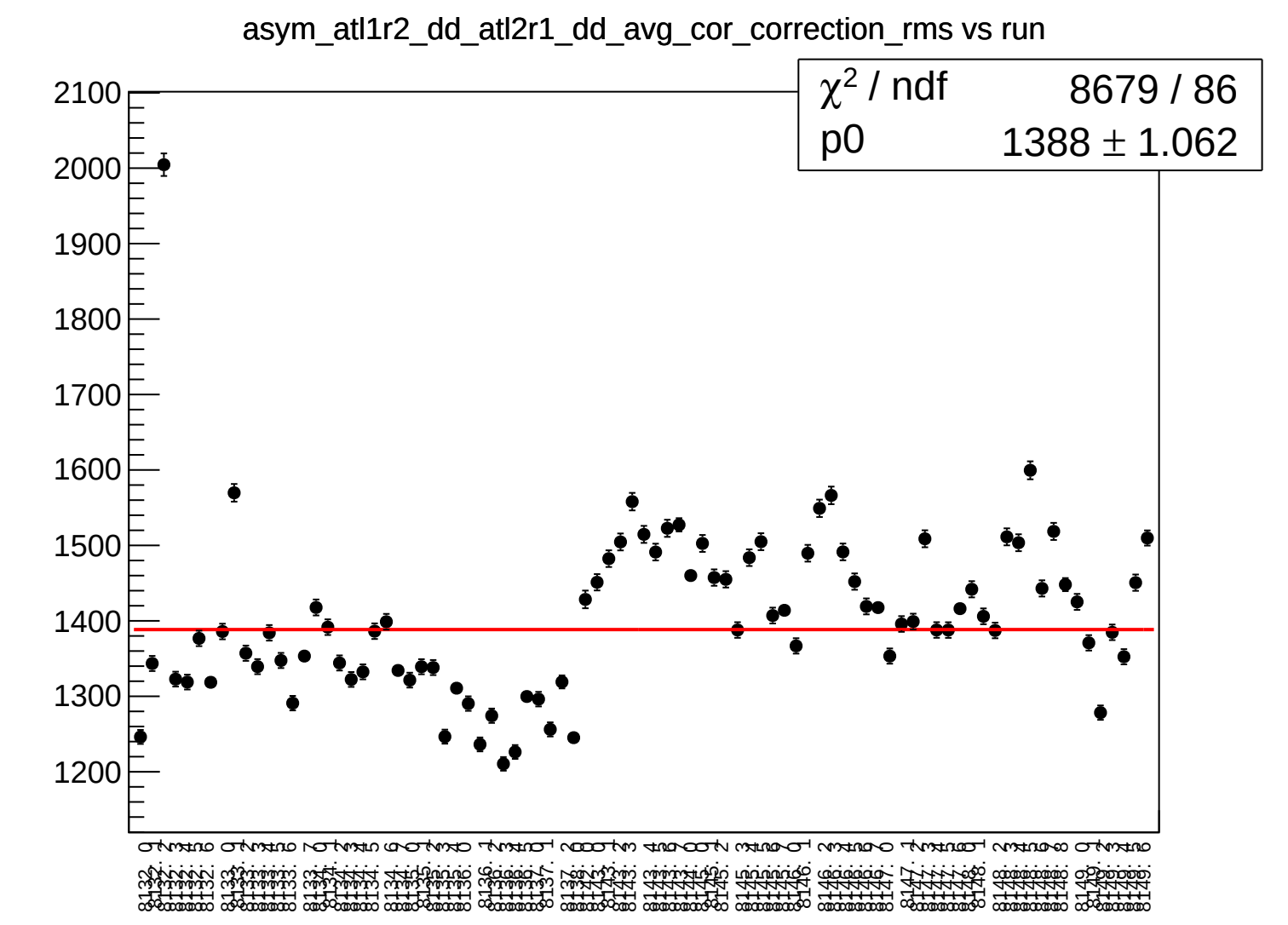

cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 92.11 / 86
p0 347.1 ± 1365
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 421.6
Std Dev 0
2
1
0
−1
−2

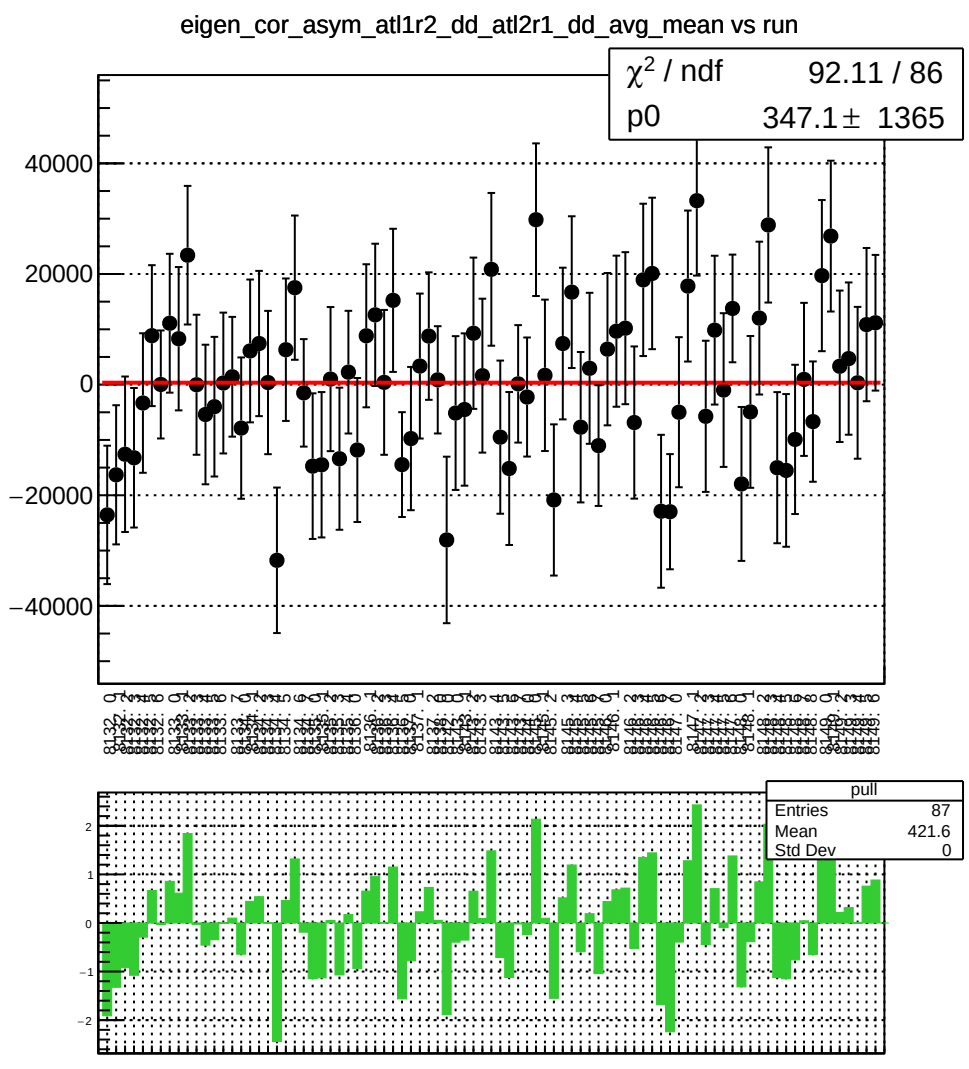

pull1D
Entries 87
Mean 0.01314
Std Dev 1.029
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

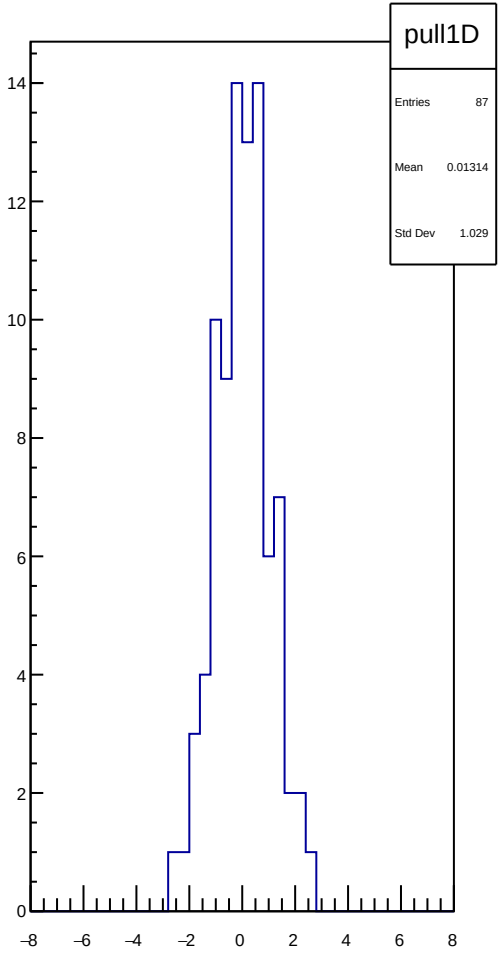

cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 2005 / 86
p0 1265 ± 0.9655
1340
1320
1300
1280
1260
1240
1220
1200
1180

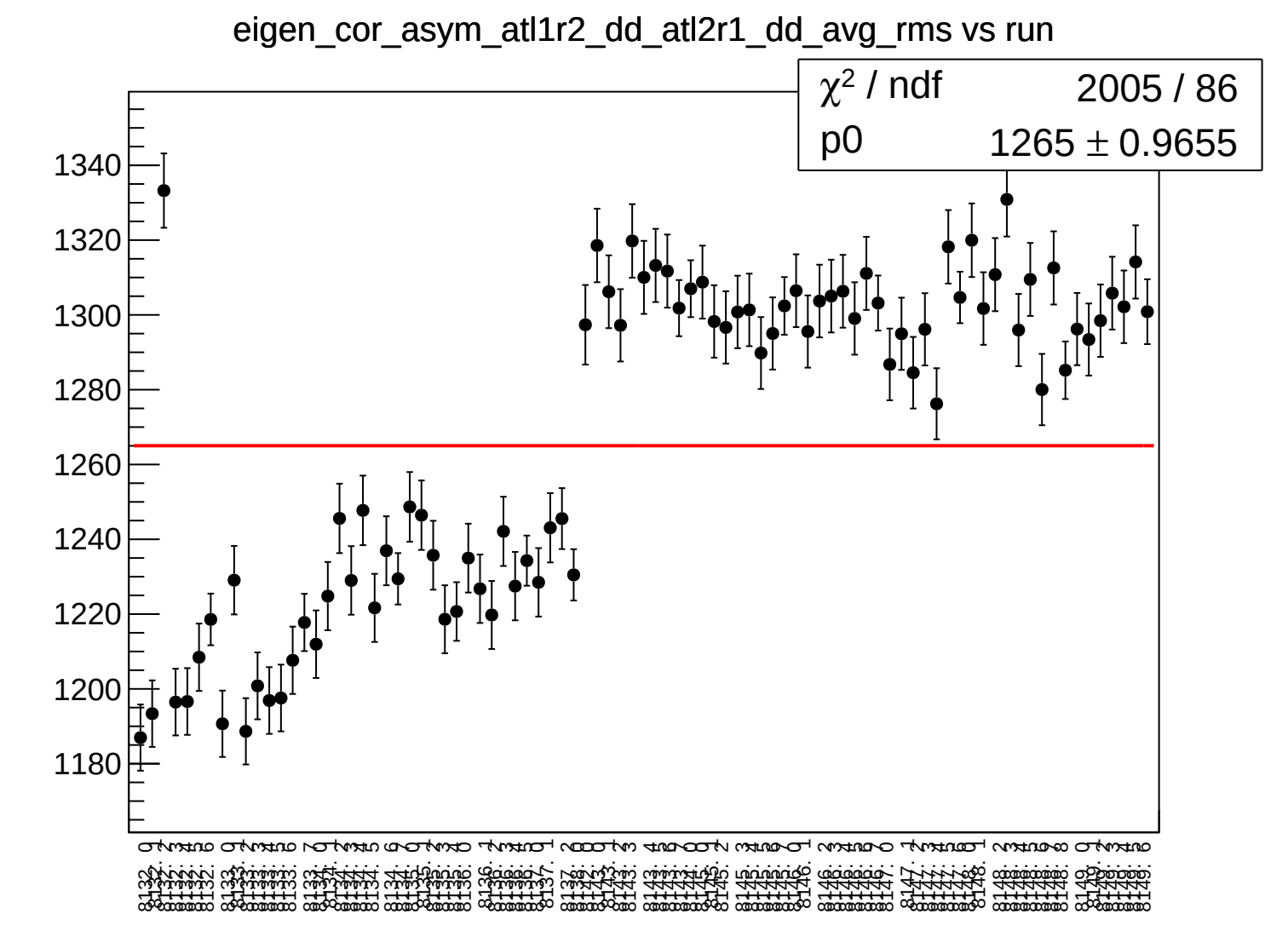

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_mean vs run
χ² / ndf 92.14 / 86
p0 −954.4 ± 1501
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 964.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

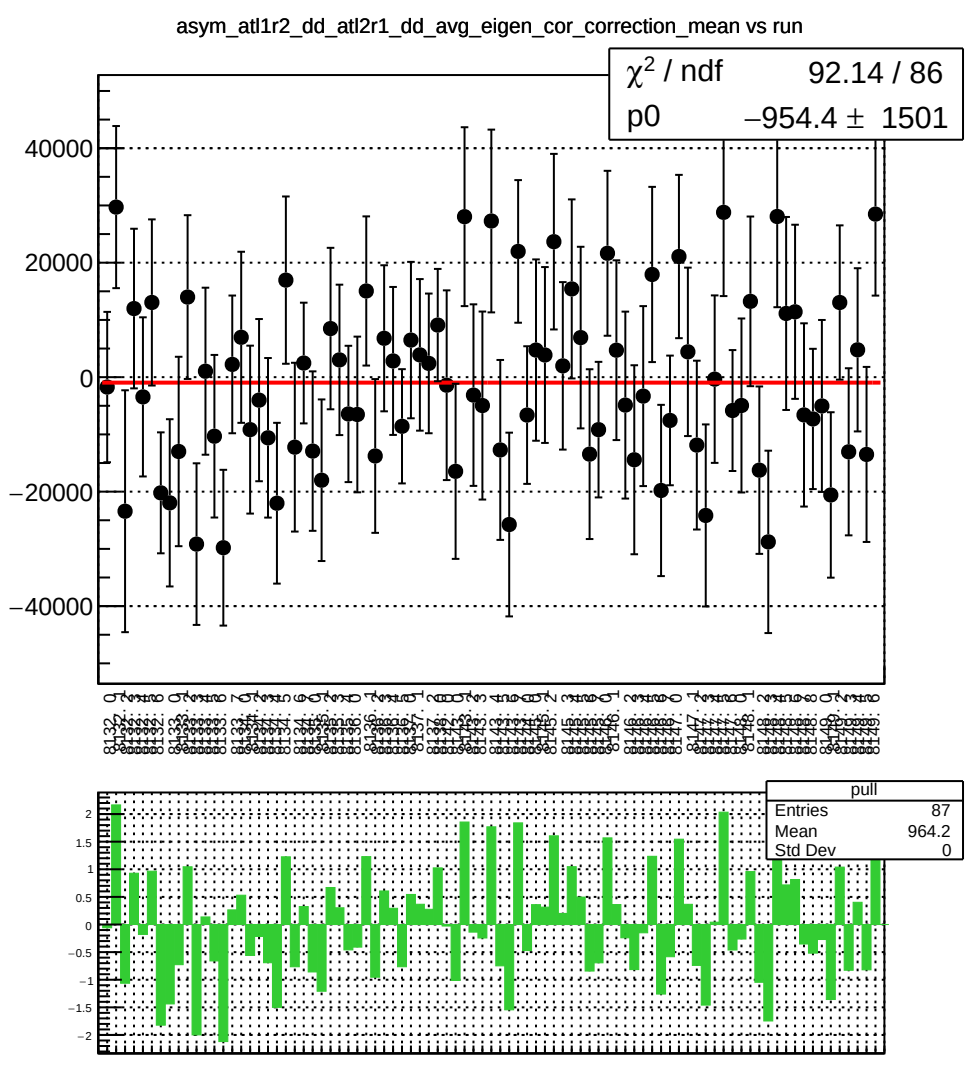

pull1D
Entries 87
Mean 0.003181
Std Dev 1.029
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

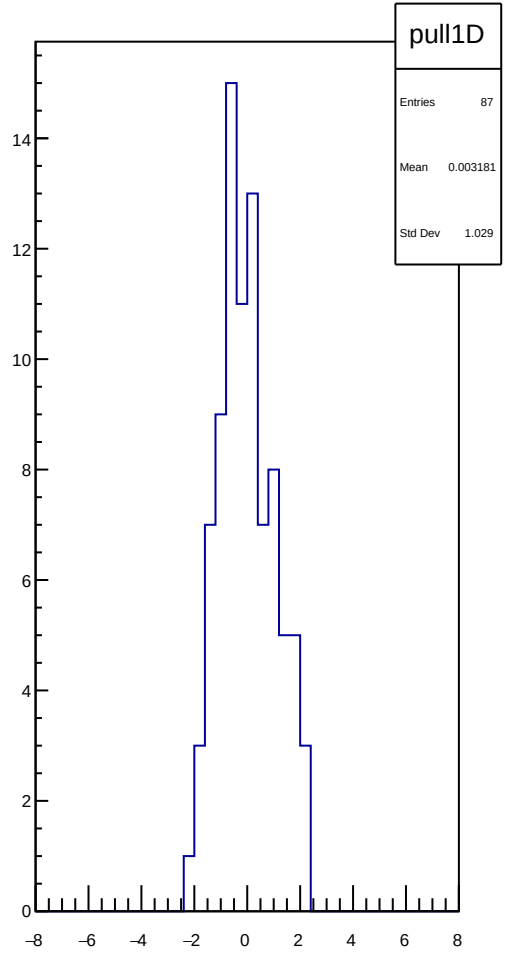

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_rms vs run
χ² / ndf 8679 / 86
p0 1388 ± 1.062
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200

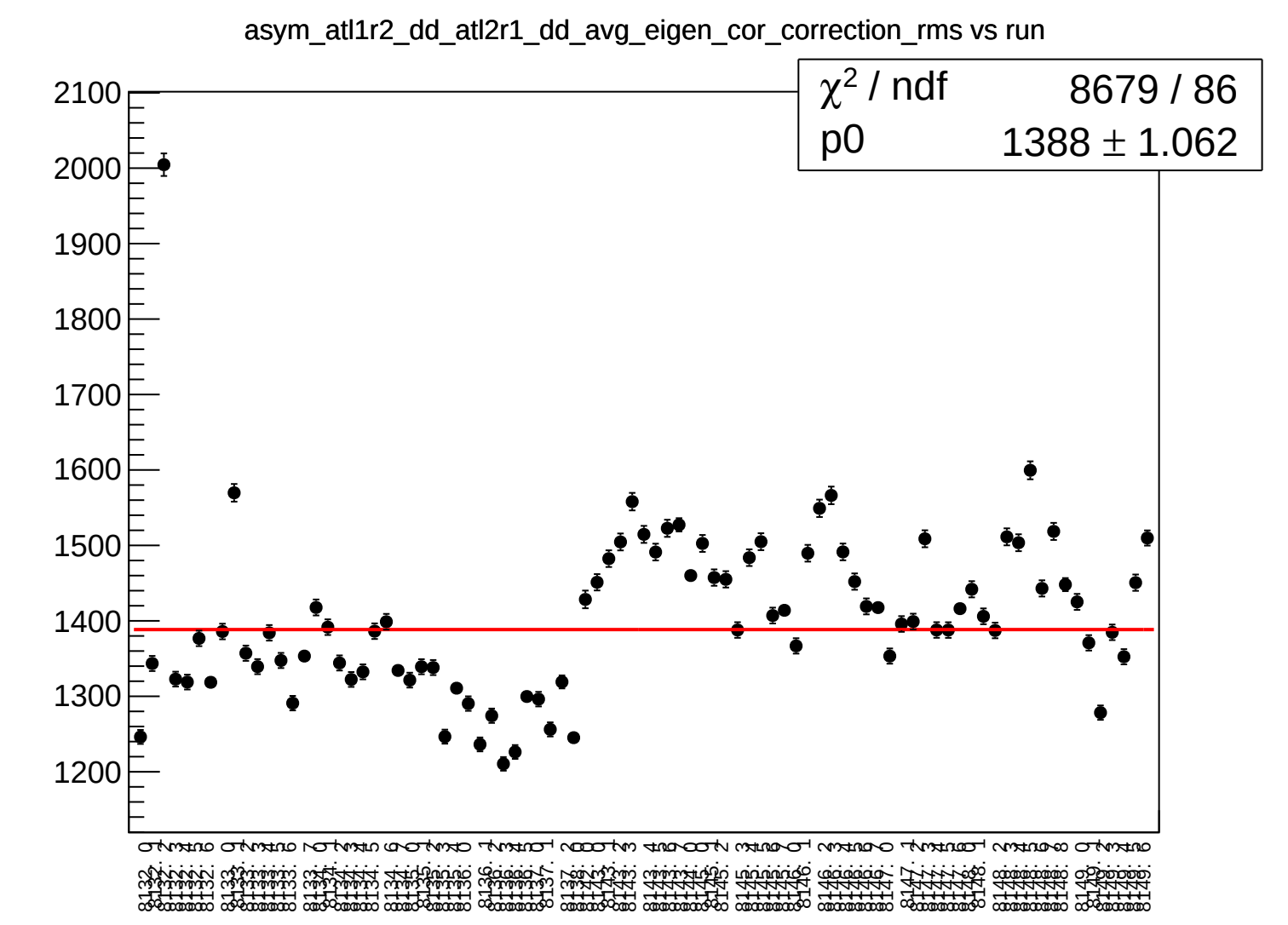

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 92.11 / 86
p0 347.1 ± 1365
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 421.6
Std Dev 0
2
1
0
−1
−2

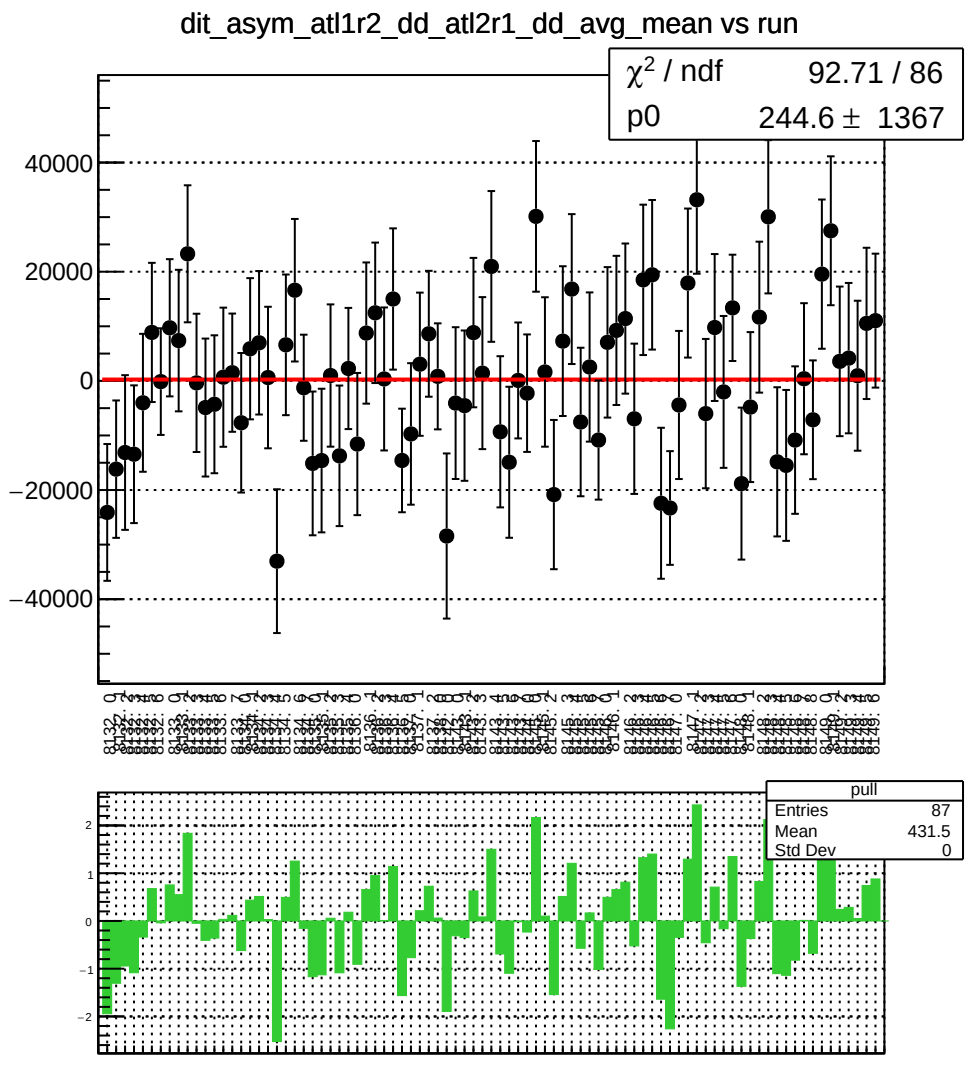

pull1D
Entries 87
Mean 0.01314
Std Dev 1.029
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

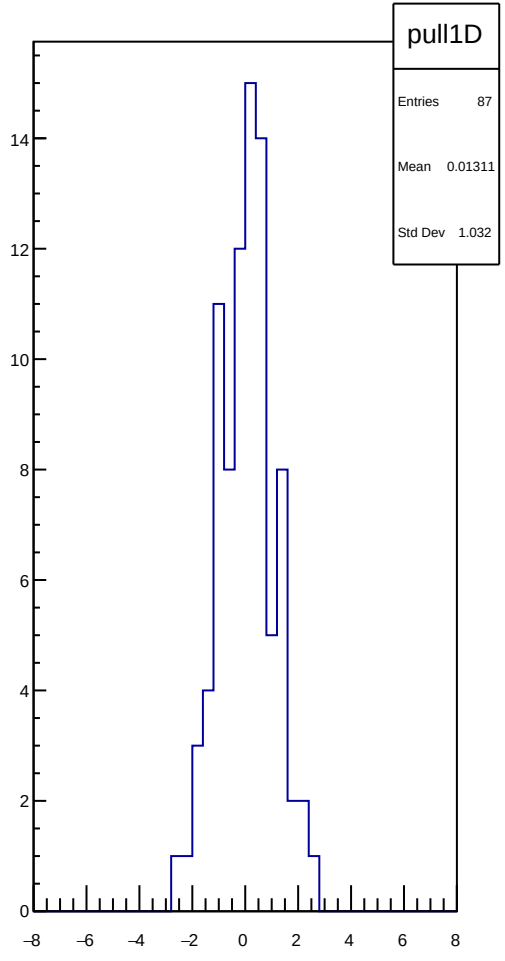

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 2005 / 86
p0 1265 ± 0.9655
1340
1320
1300
1280
1260
1240
1220
1200
1180

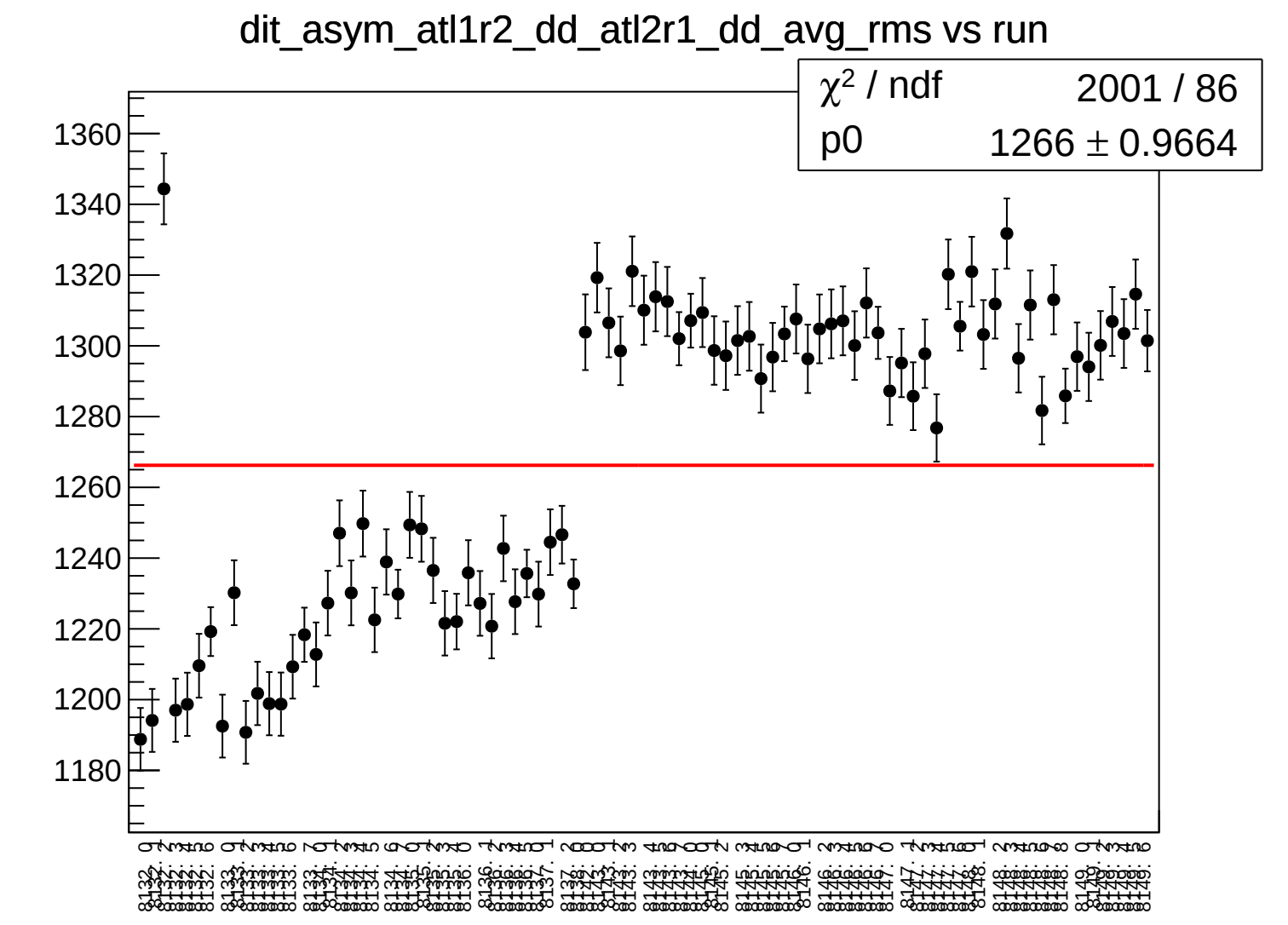

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 92.14 / 86
p0 −954.4 ± 1501
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 964.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

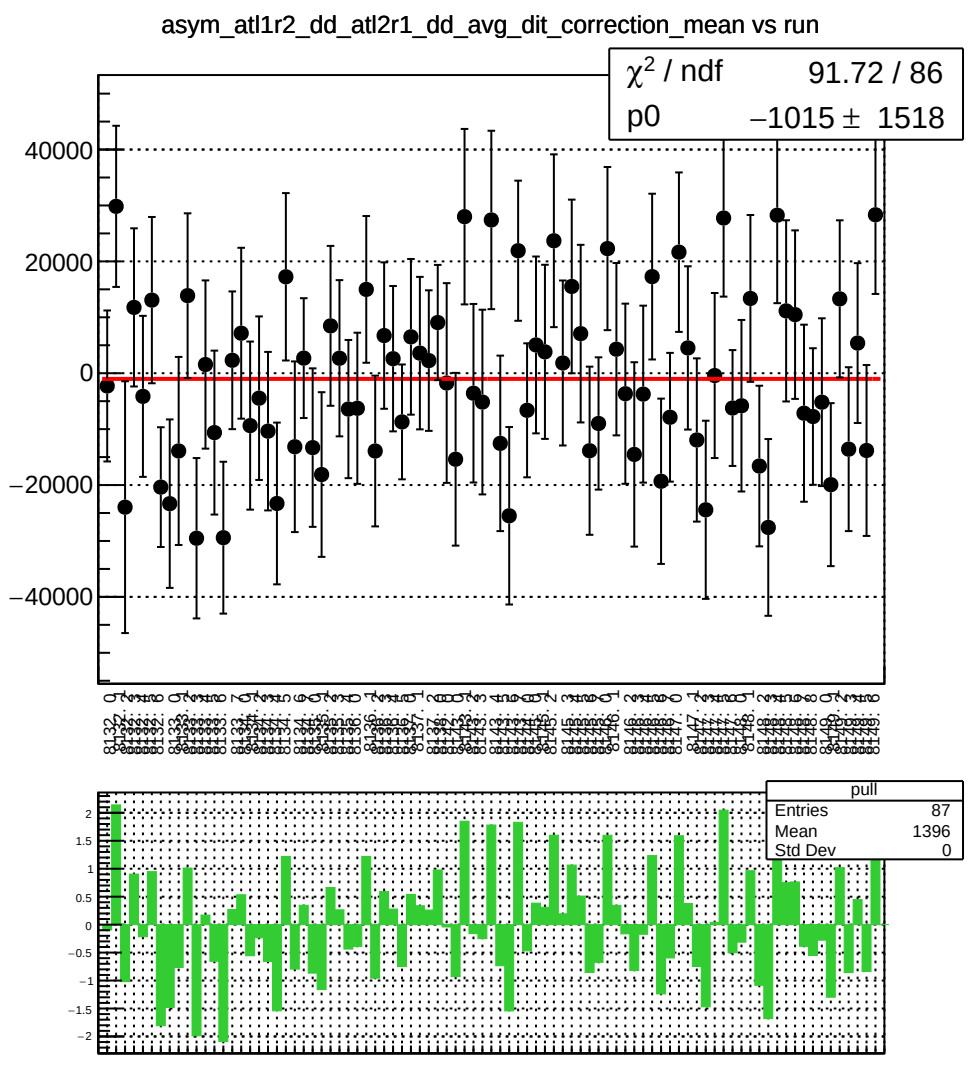

pull1D
Entries 87
Mean 0.003181
Std Dev 1.029
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

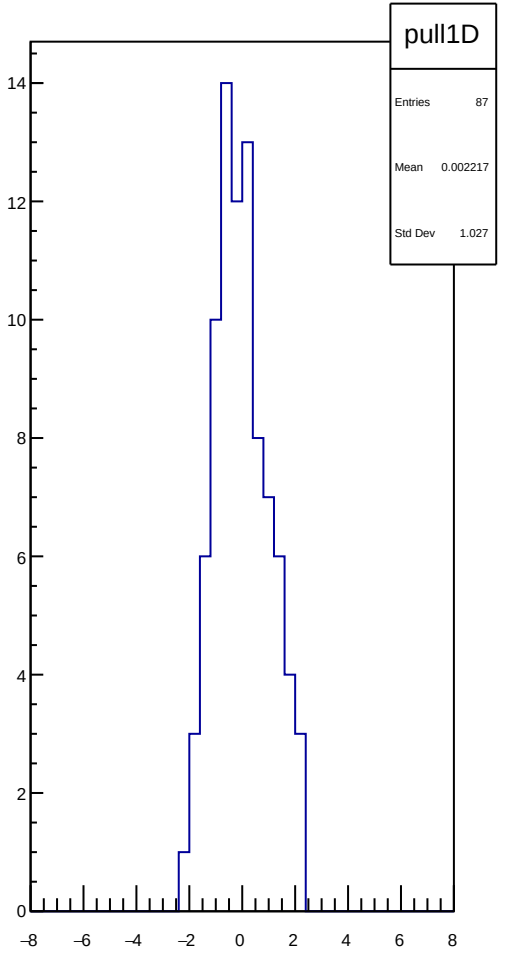

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 8679 / 86
p0 1388 ± 1.062
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200

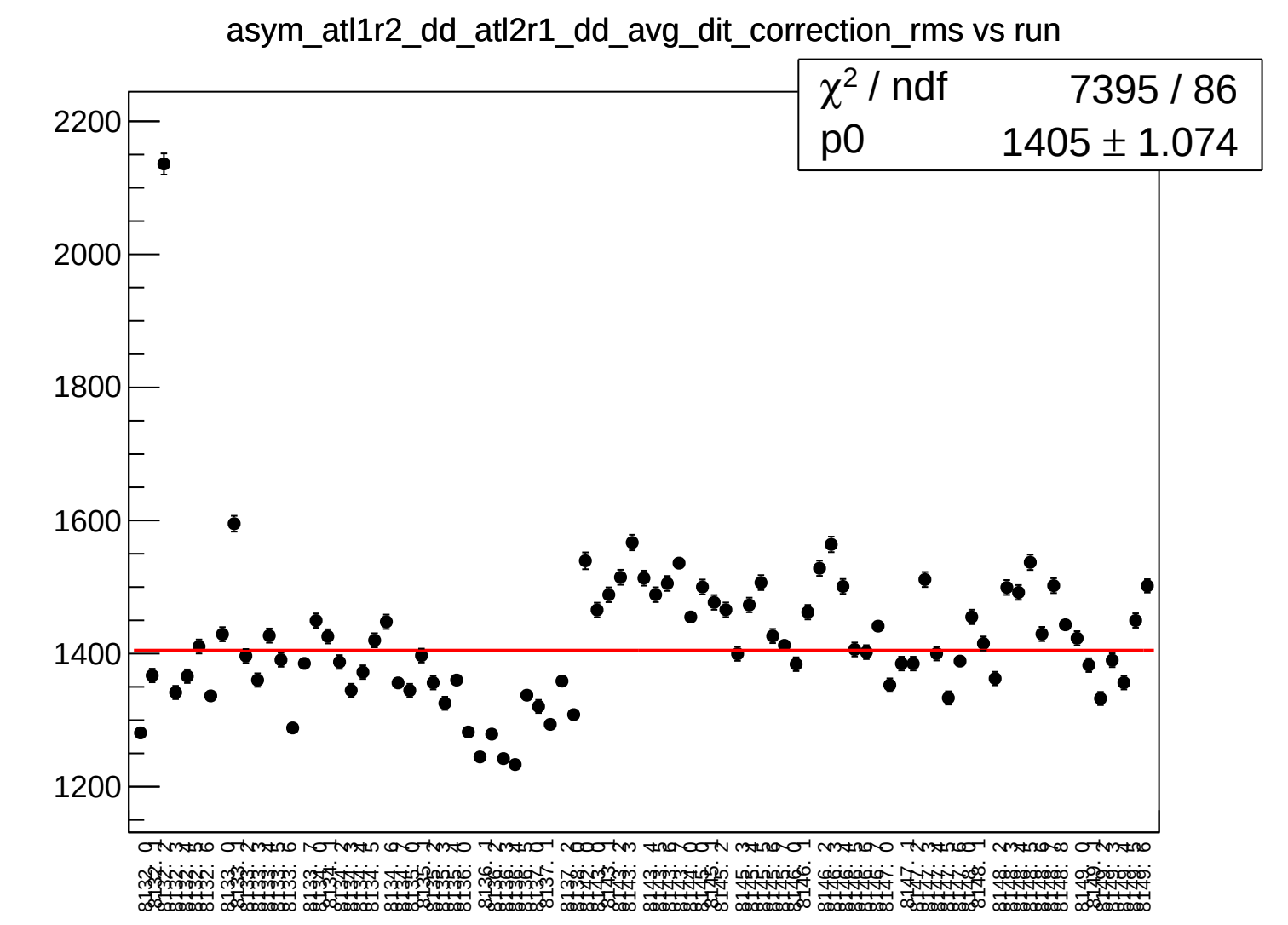

dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 92.71 / 86
p0 244.6 ± 1367
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 431.5
Std Dev 0
2
1
0
−1
−2

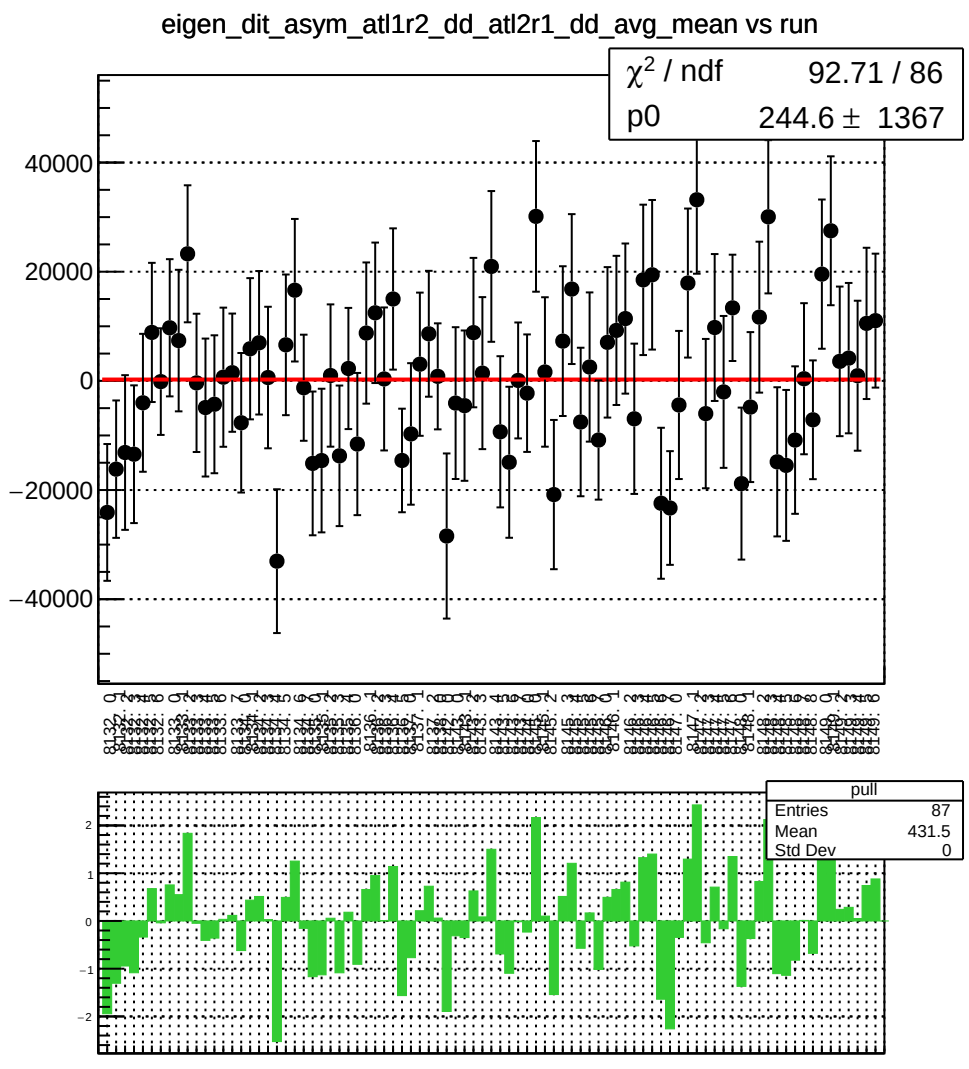

pull1D
Entries 87
Mean 0.01311
Std Dev 1.032
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

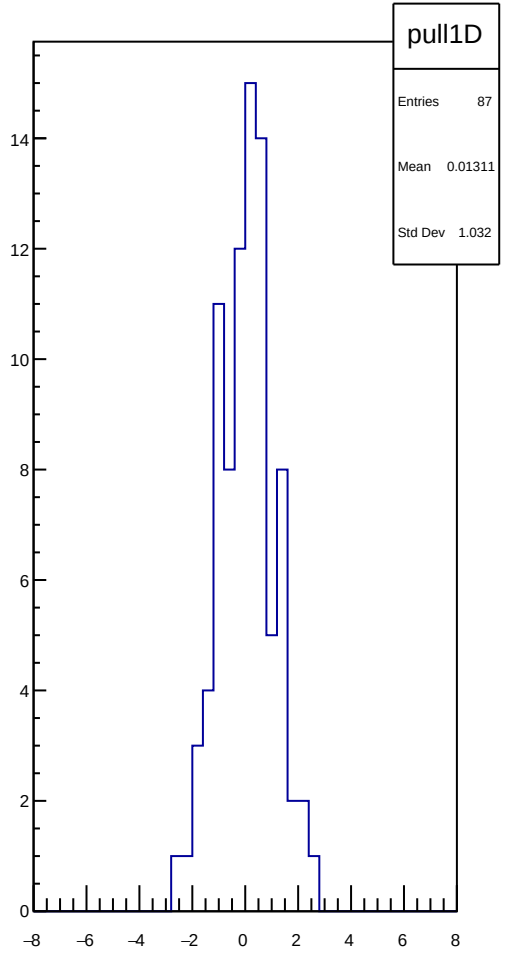

dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 2001 / 86
p0 1266 ± 0.9664
1360
1340
1320
1300
1280
1260
1240
1220
1200
1180

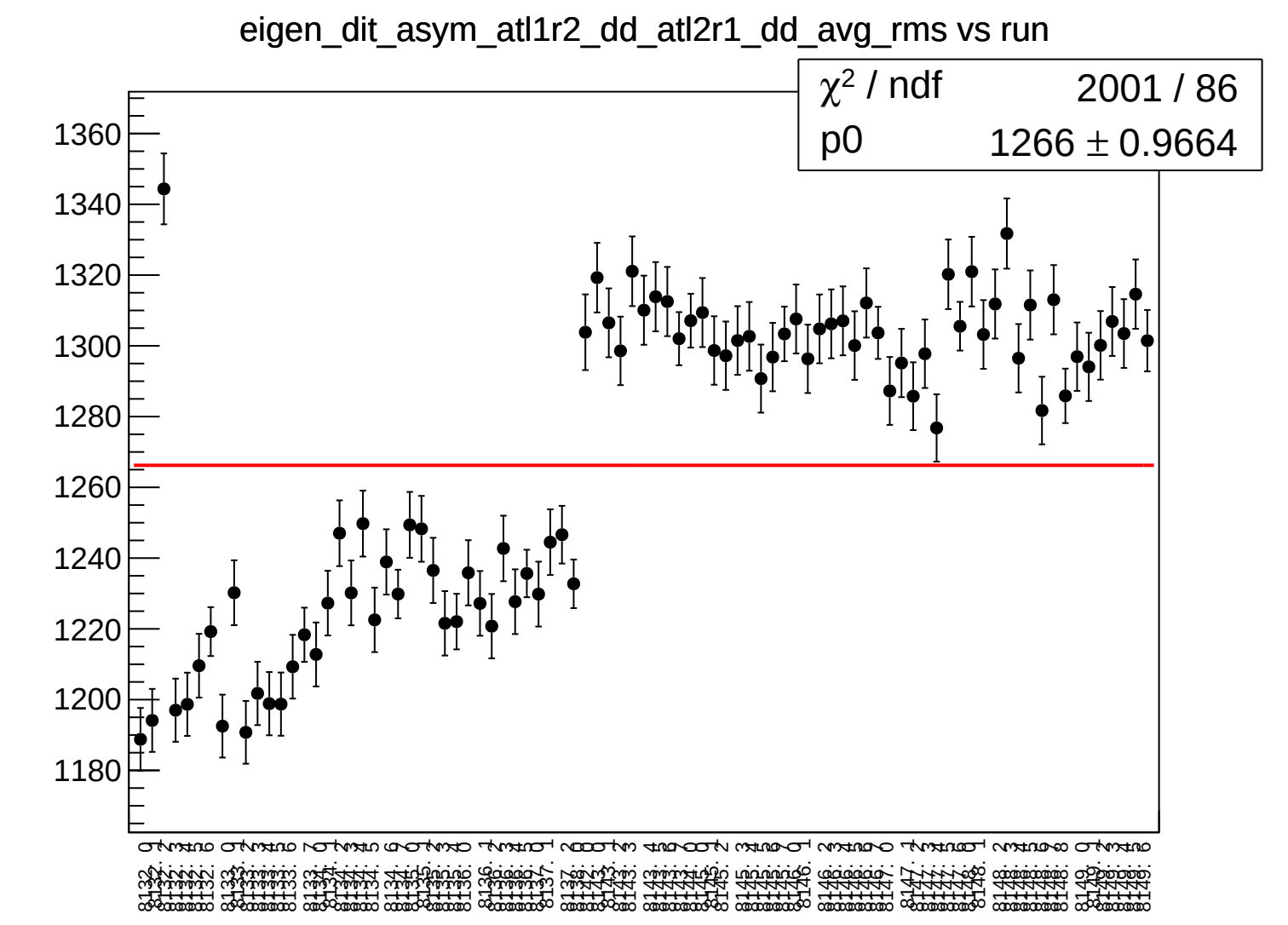

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_mean vs run
χ² / ndf 91.72 / 86
p0 −1015 ± 1518
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 1396
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

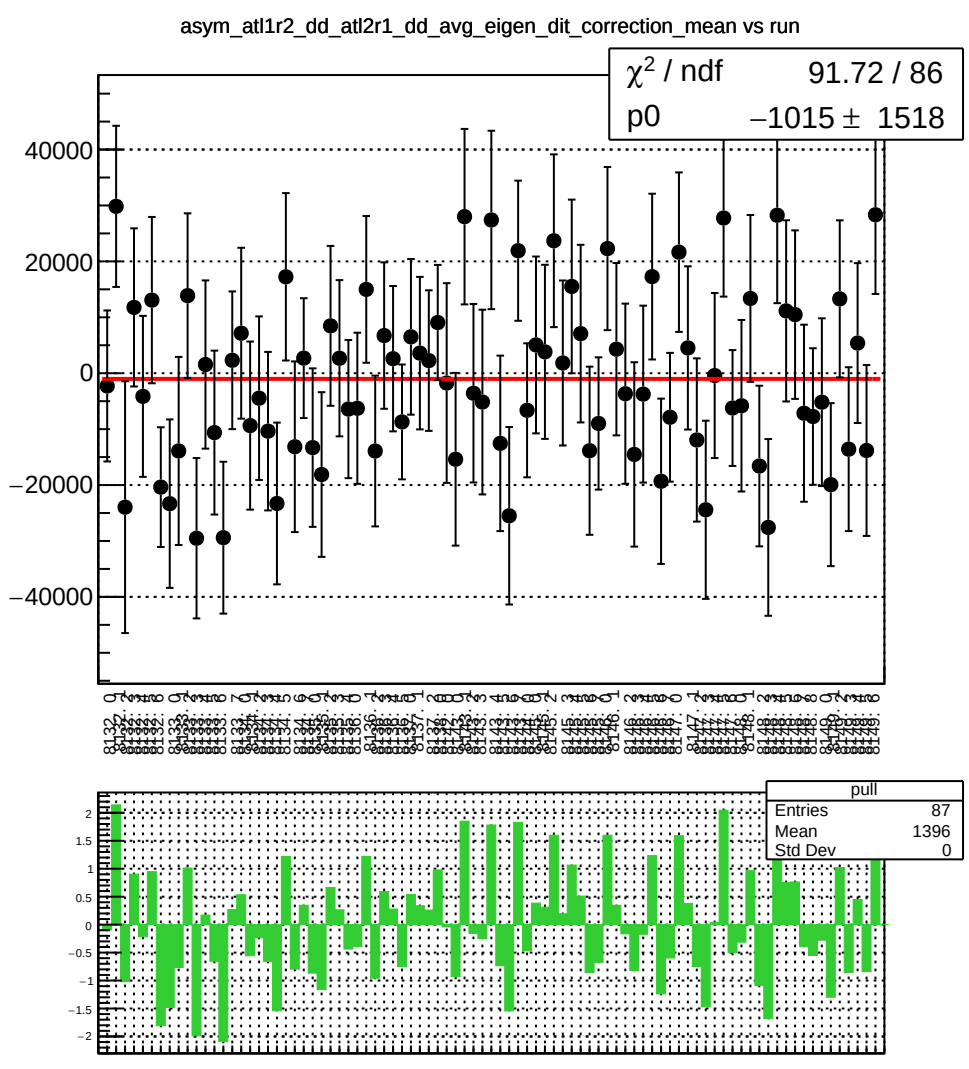

pull1D
Entries 87
Mean 0.002217
Std Dev 1.027
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

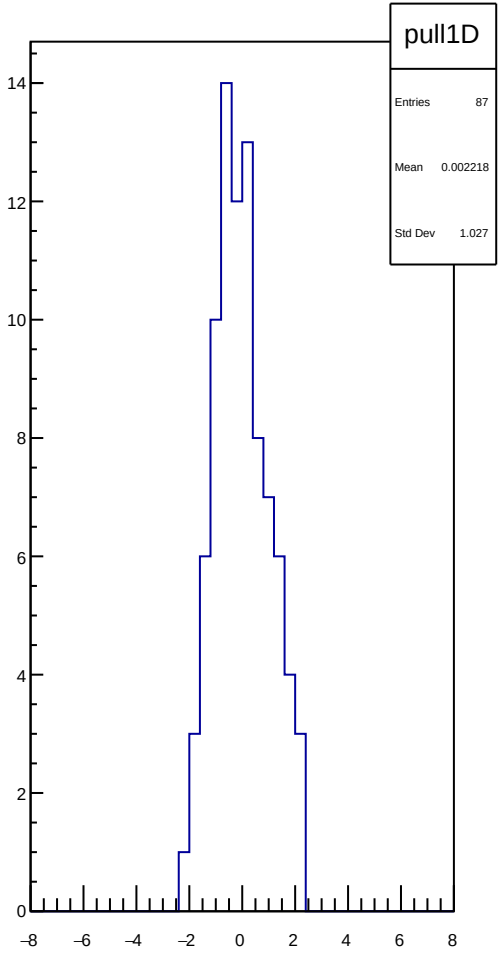

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_rms vs run
χ² / ndf 7395 / 86
p0 1405 ± 1.074
2200
2000
1800
1600
1400
1200

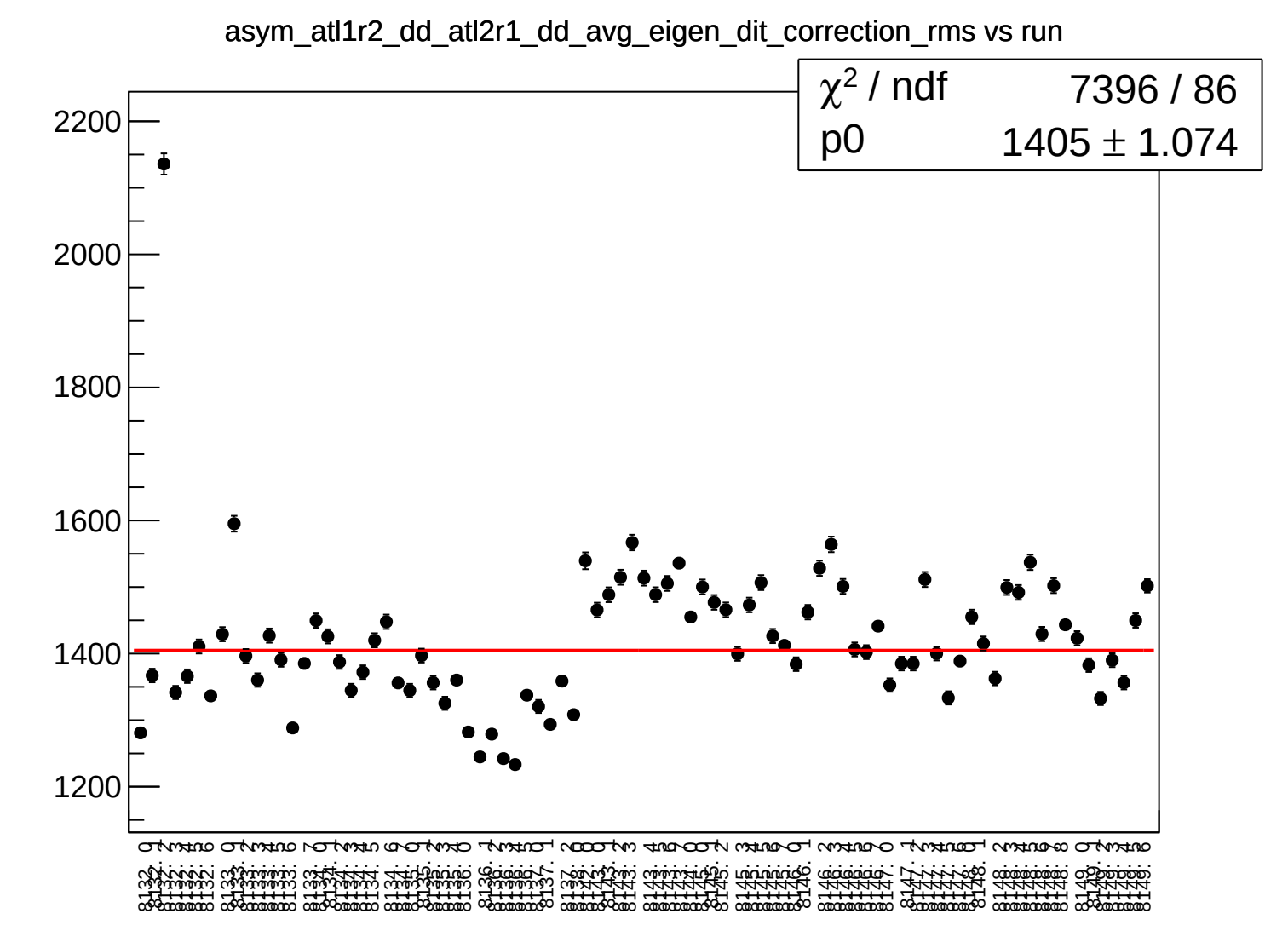

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 92.71 / 86
p0 244.6 ± 1367
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 431.5
Std Dev 0
2
1
0
−1
−2

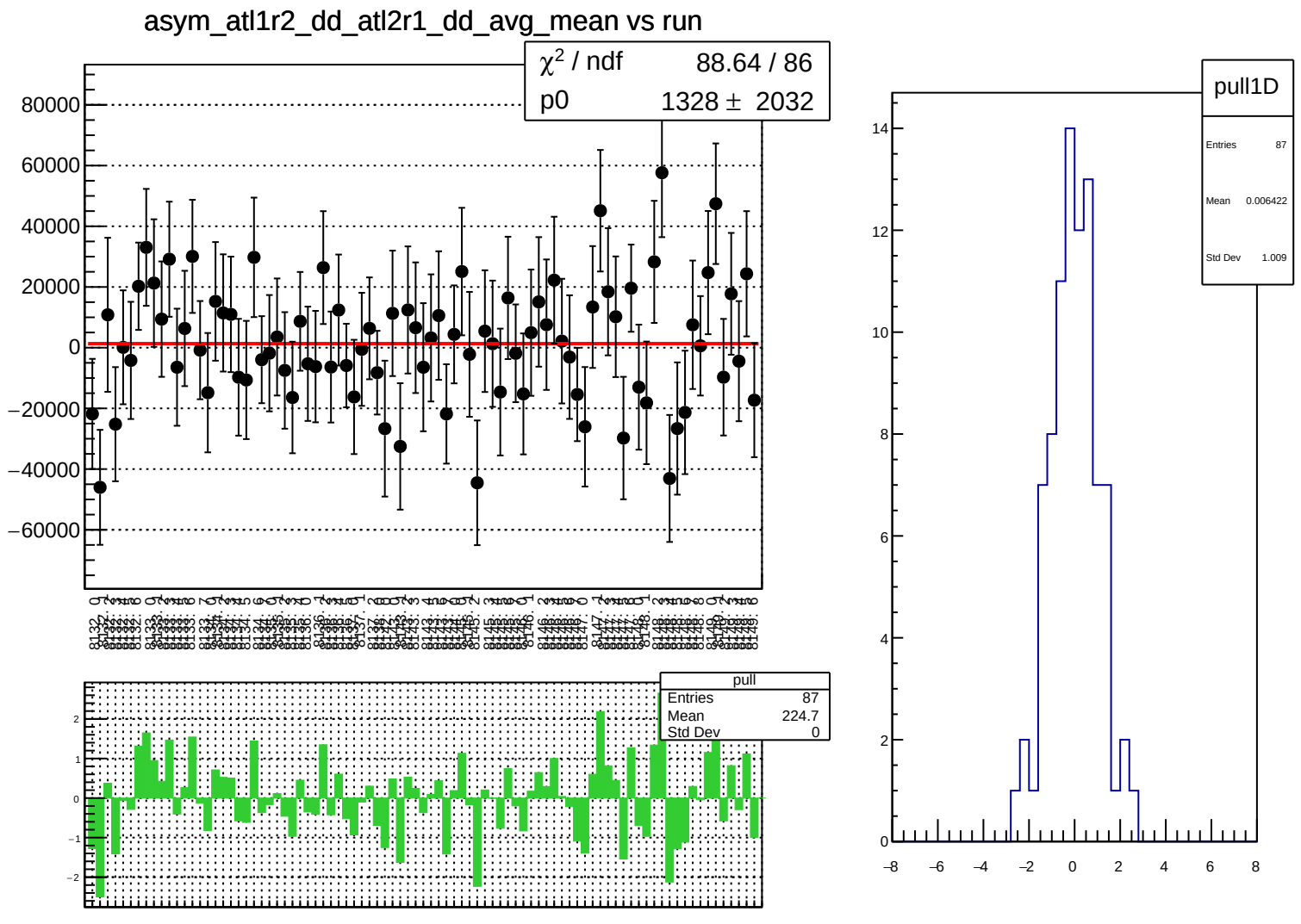

pull1D
Entries 87
Mean 0.01311
Std Dev 1.032
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

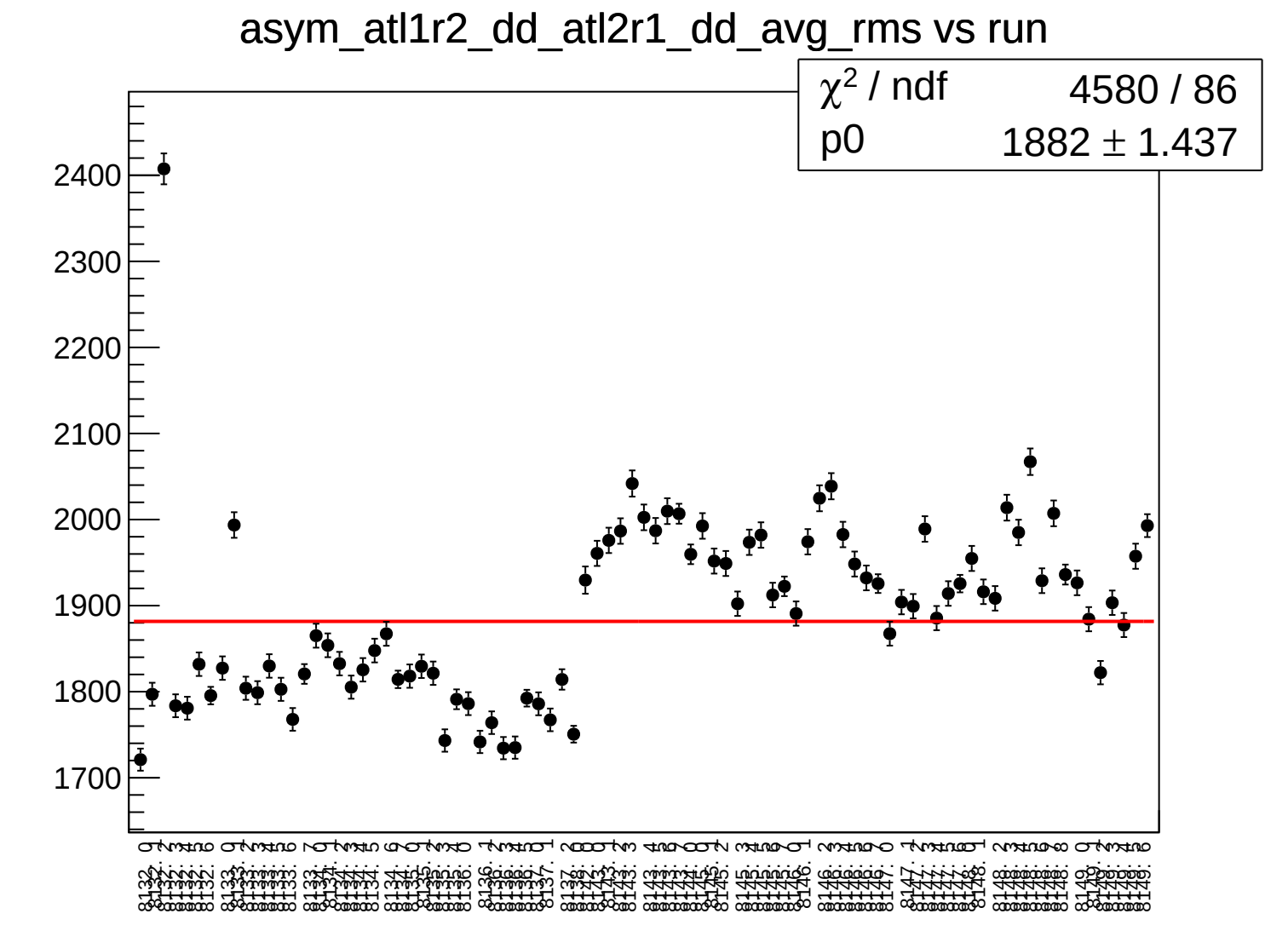

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 2001 / 86
p0 1266 ± 0.9664
1360
1340
1320
1300
1280
1260
1240
1220
1200
1180

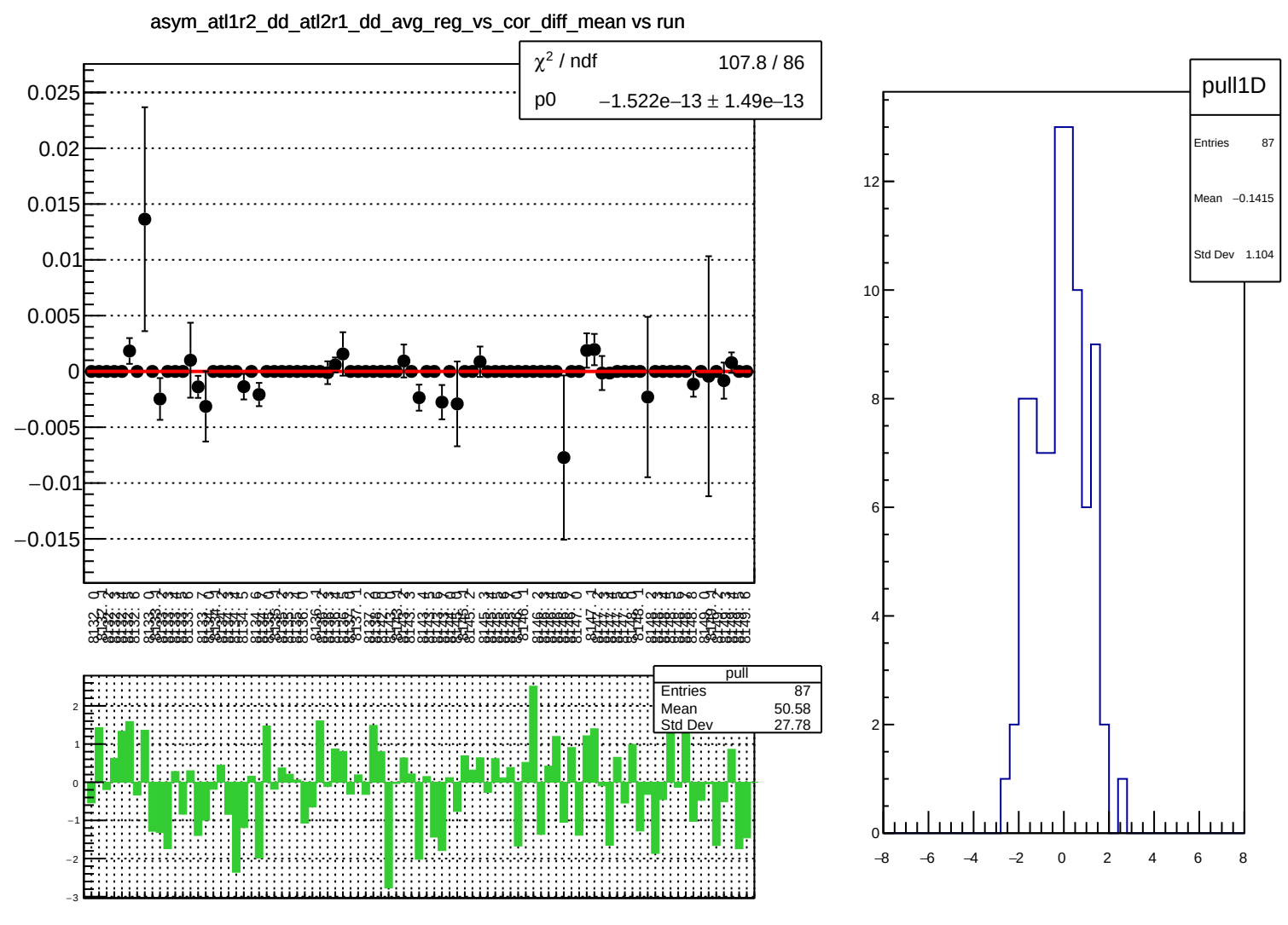

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 91.72 / 86
p0 −1015 ± 1518
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 1396
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

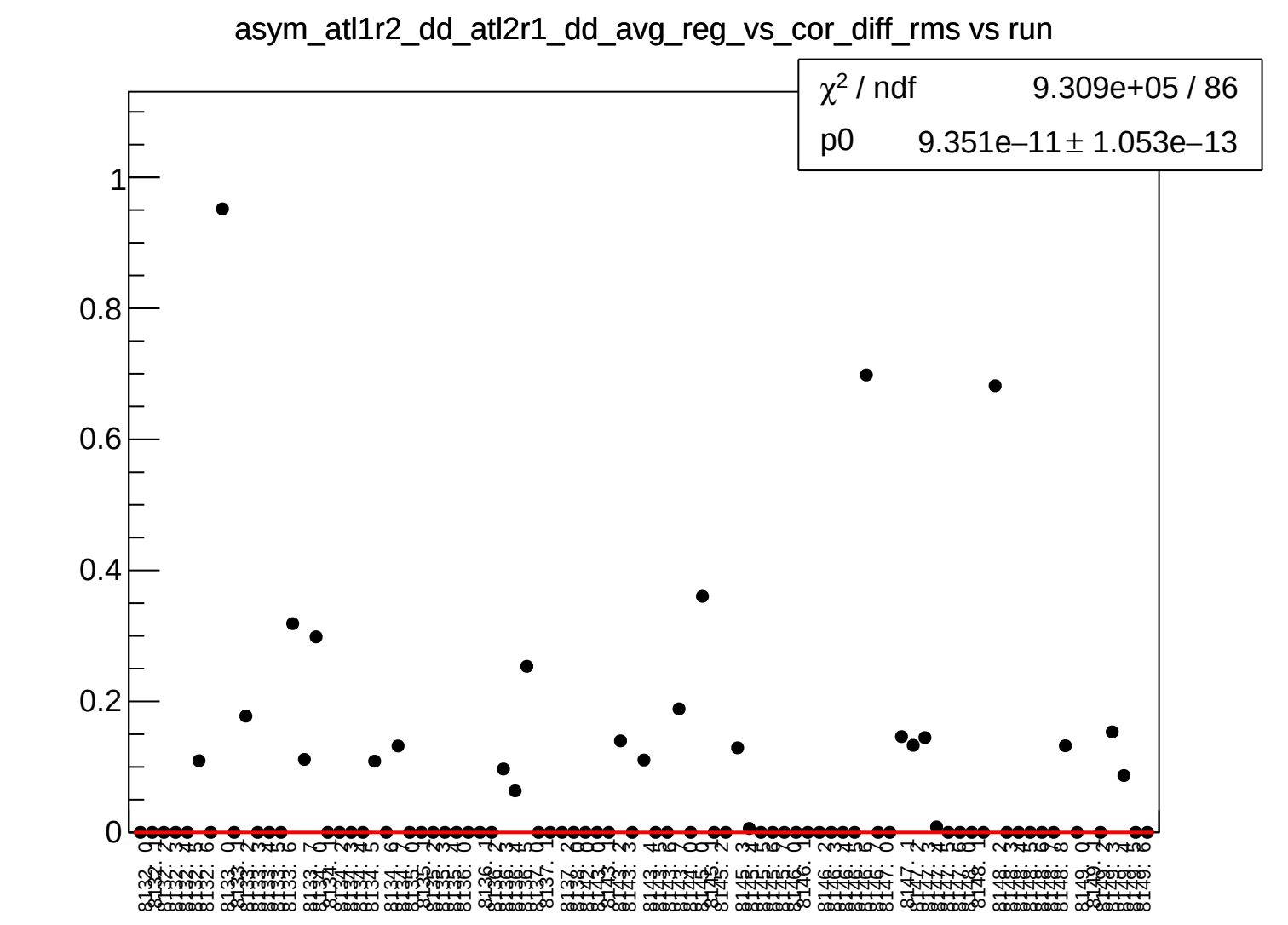

pull1D
Entries 87
Mean 0.002218
Std Dev 1.027
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

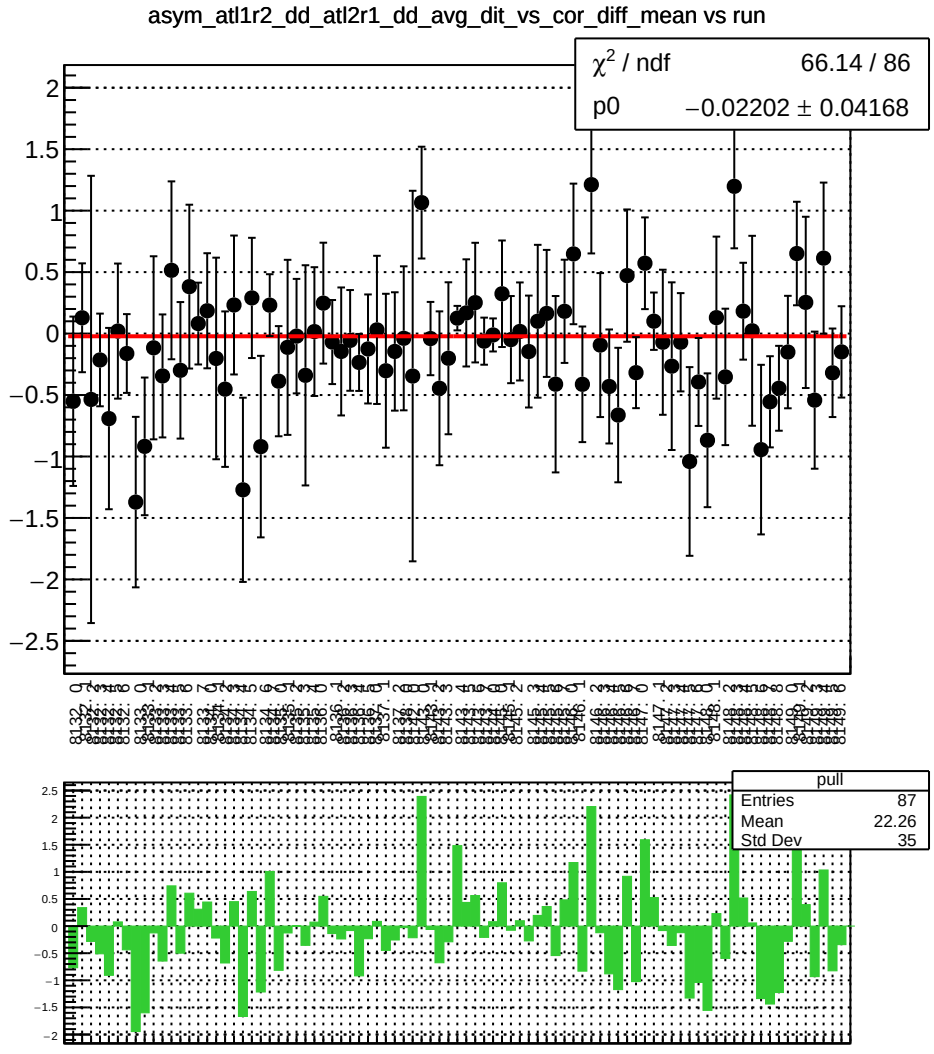

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 7396 / 86
p0 1405 ± 1.074
2200
2000
1800
1600
1400
1200

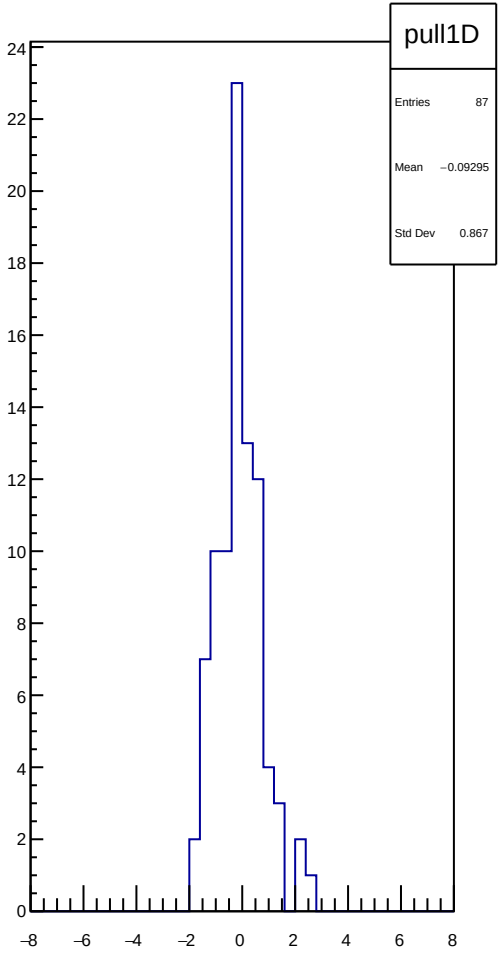

asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 88.64 / 86
p0 1328 ± 2032
pull
Entries 87
Mean 224.7
Std Dev 0
pull1D
Entries 87
Mean 0.006422
Std Dev 1.009

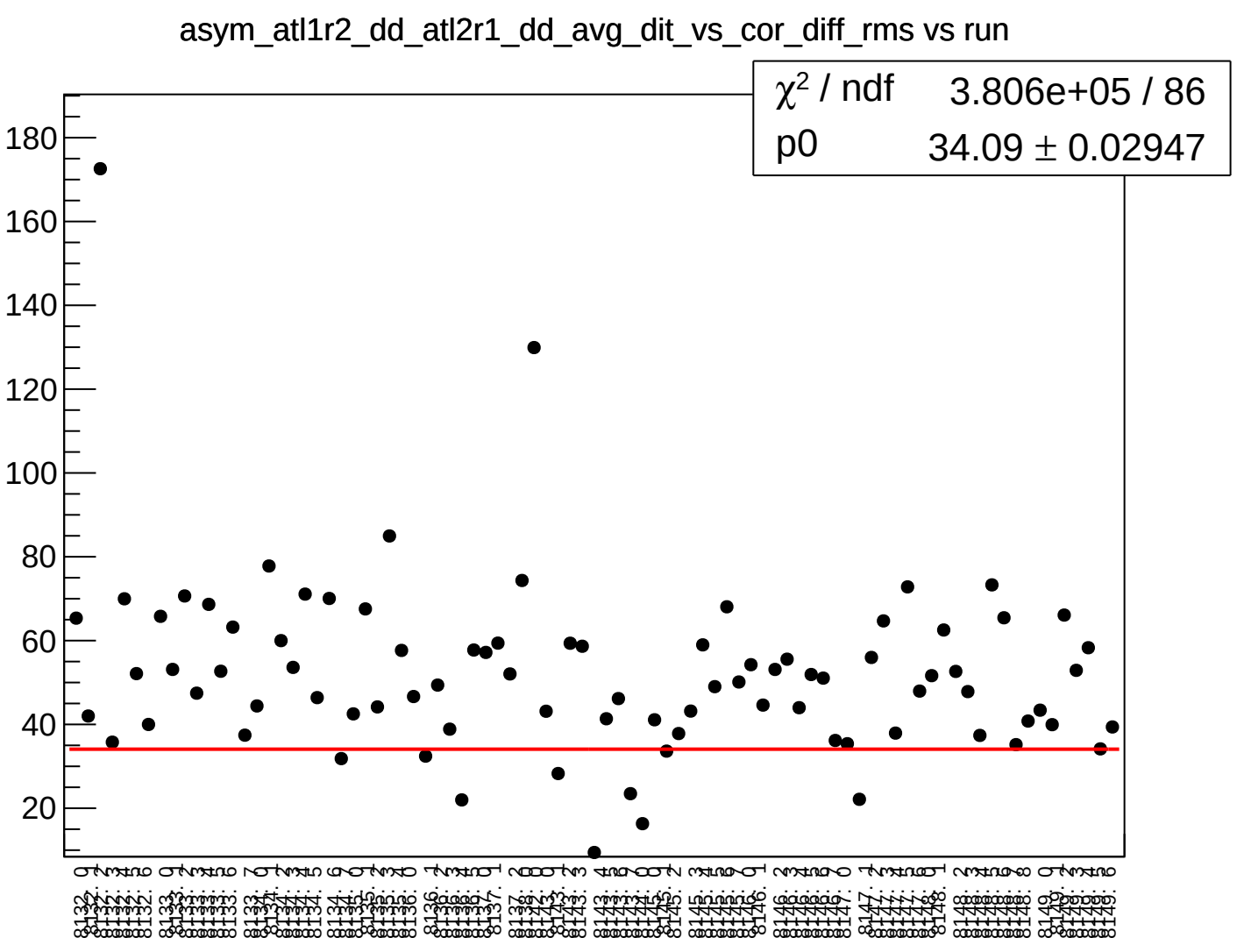

asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 4580 / 86
p0 1882 ± 1.437
2400
2300
2200
2100
2000
1900
1800
1700

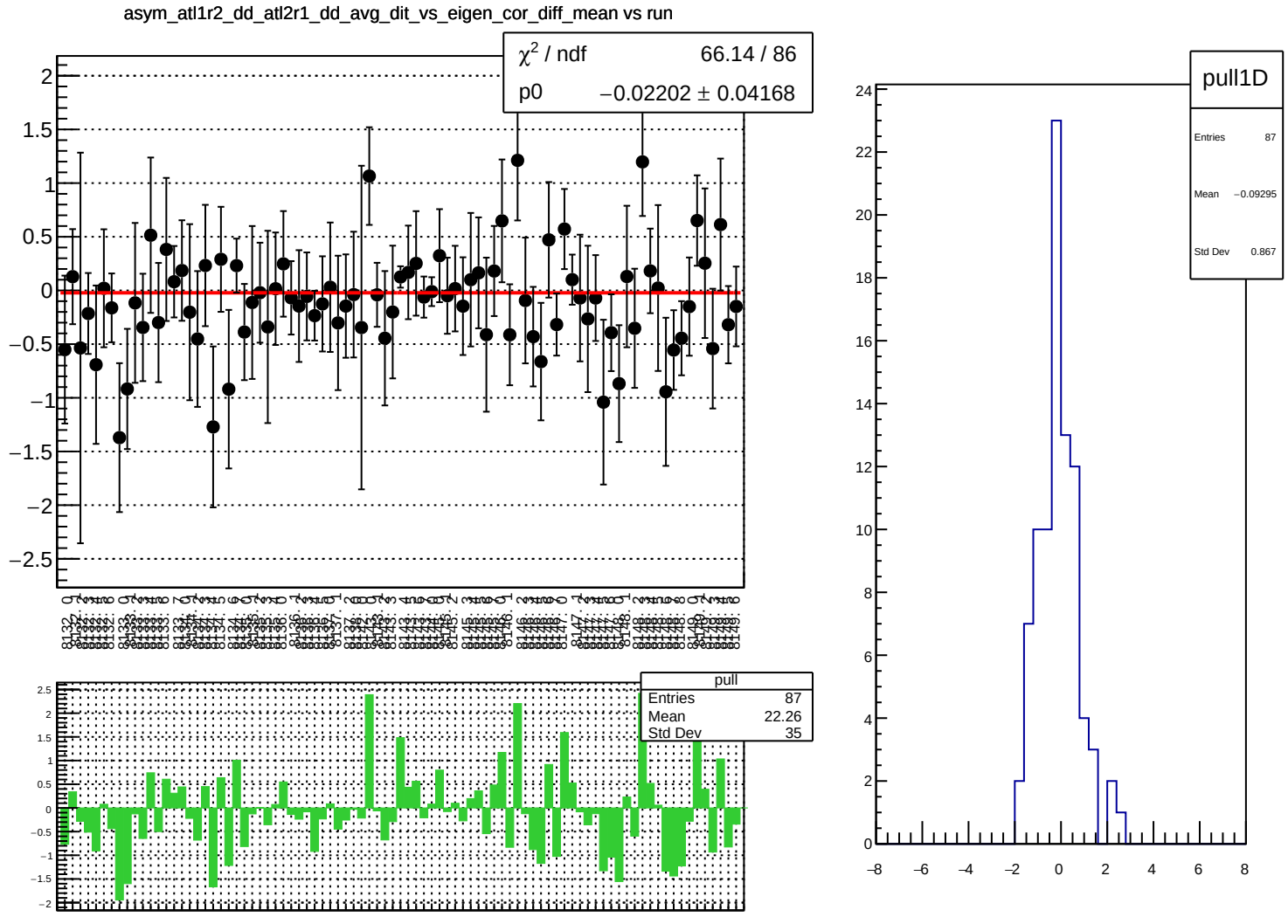

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 107.8 / 86
p0 −1.522e−13 ± 1.49e−13
pull
Entries 87
Mean 50.58
Std Dev 27.78
pull1D
Entries 87
Mean −0.1415
Std Dev 1.104

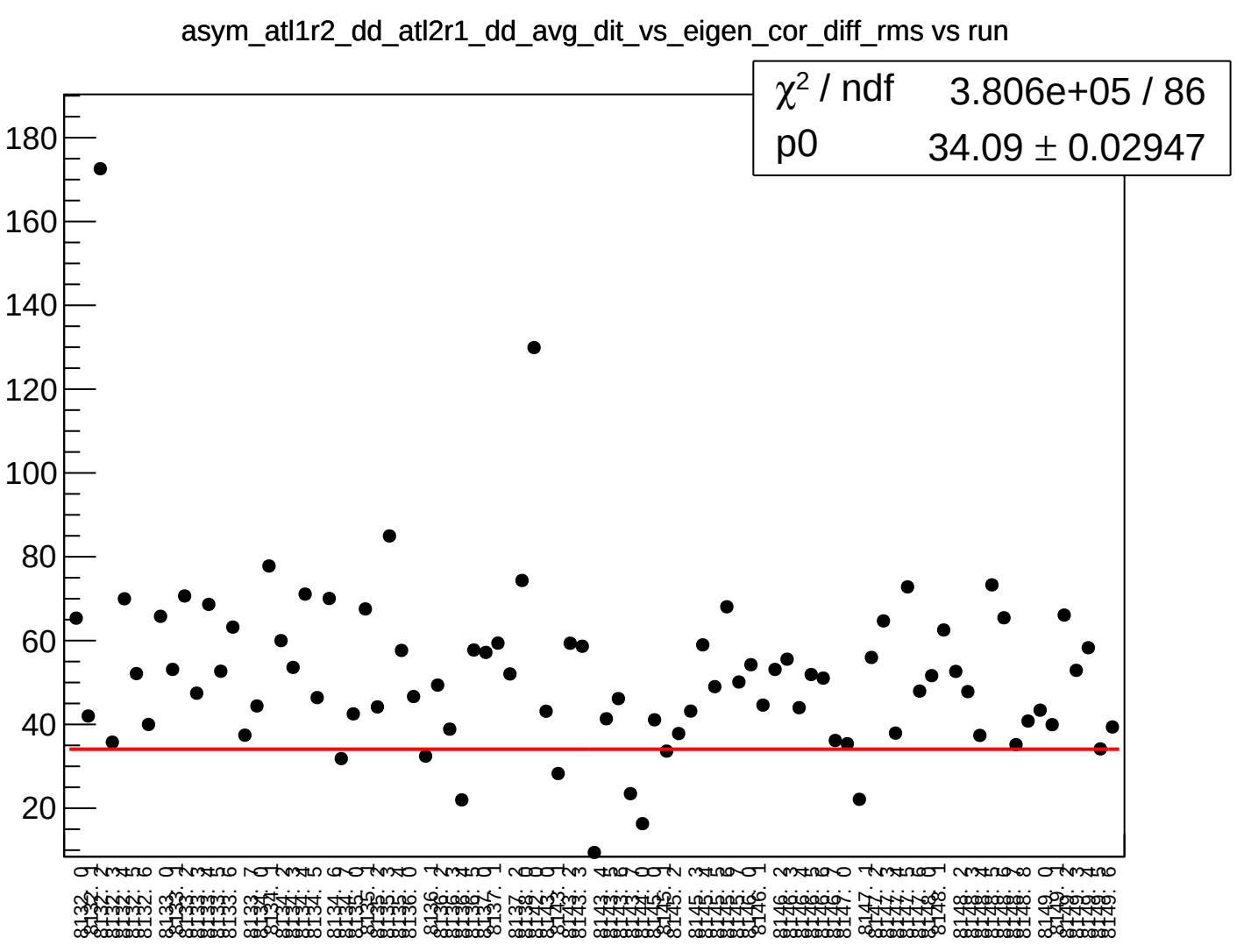

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.309e+05 / 86
p0 9.351e−11 ± 1.053e−13
1
0.8
0.6
0.4
0.2
0

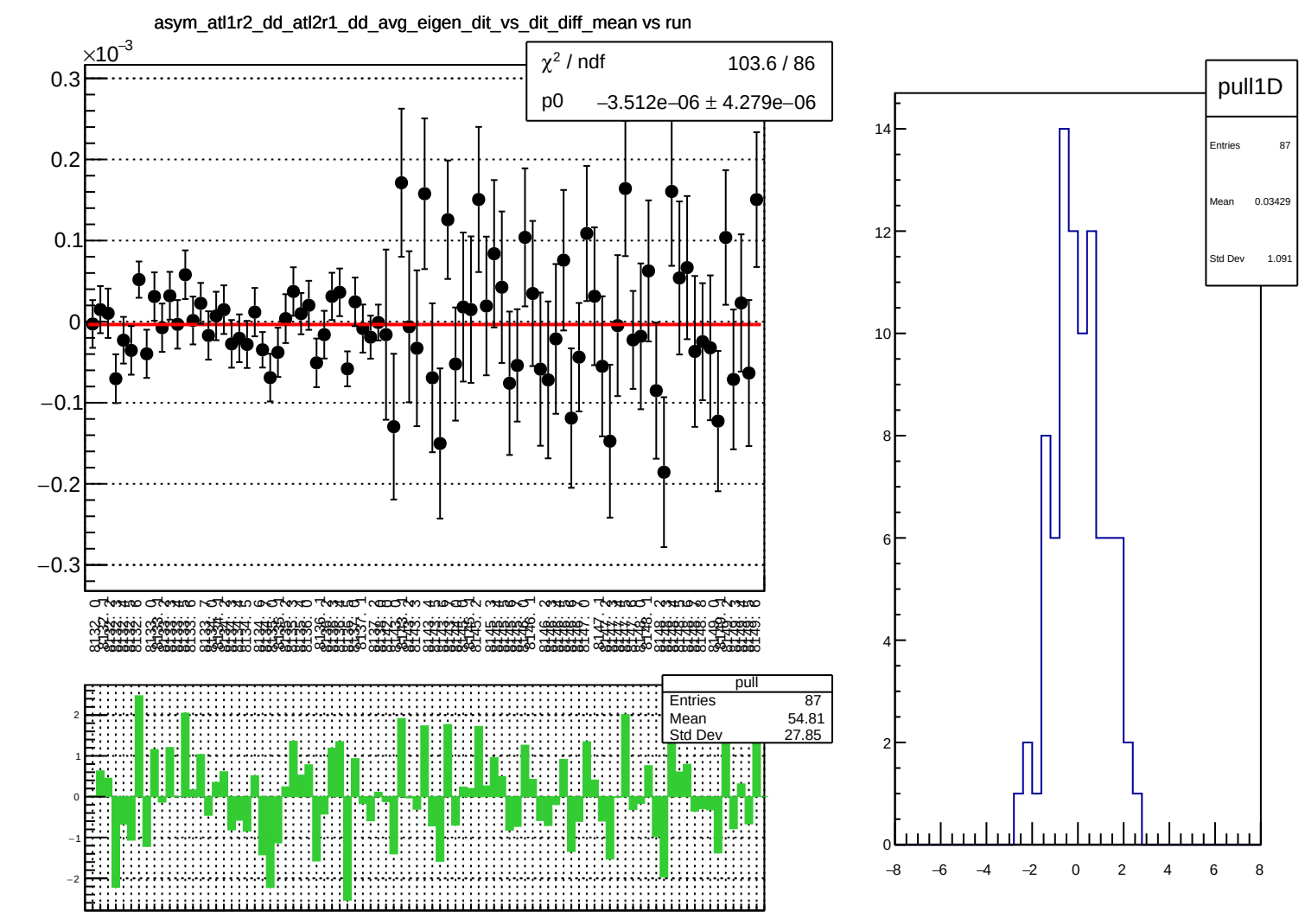

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 66.14 / 86
p0 −0.02202 ± 0.04168
pull
Entries 87
Mean 22.26
Std Dev 35

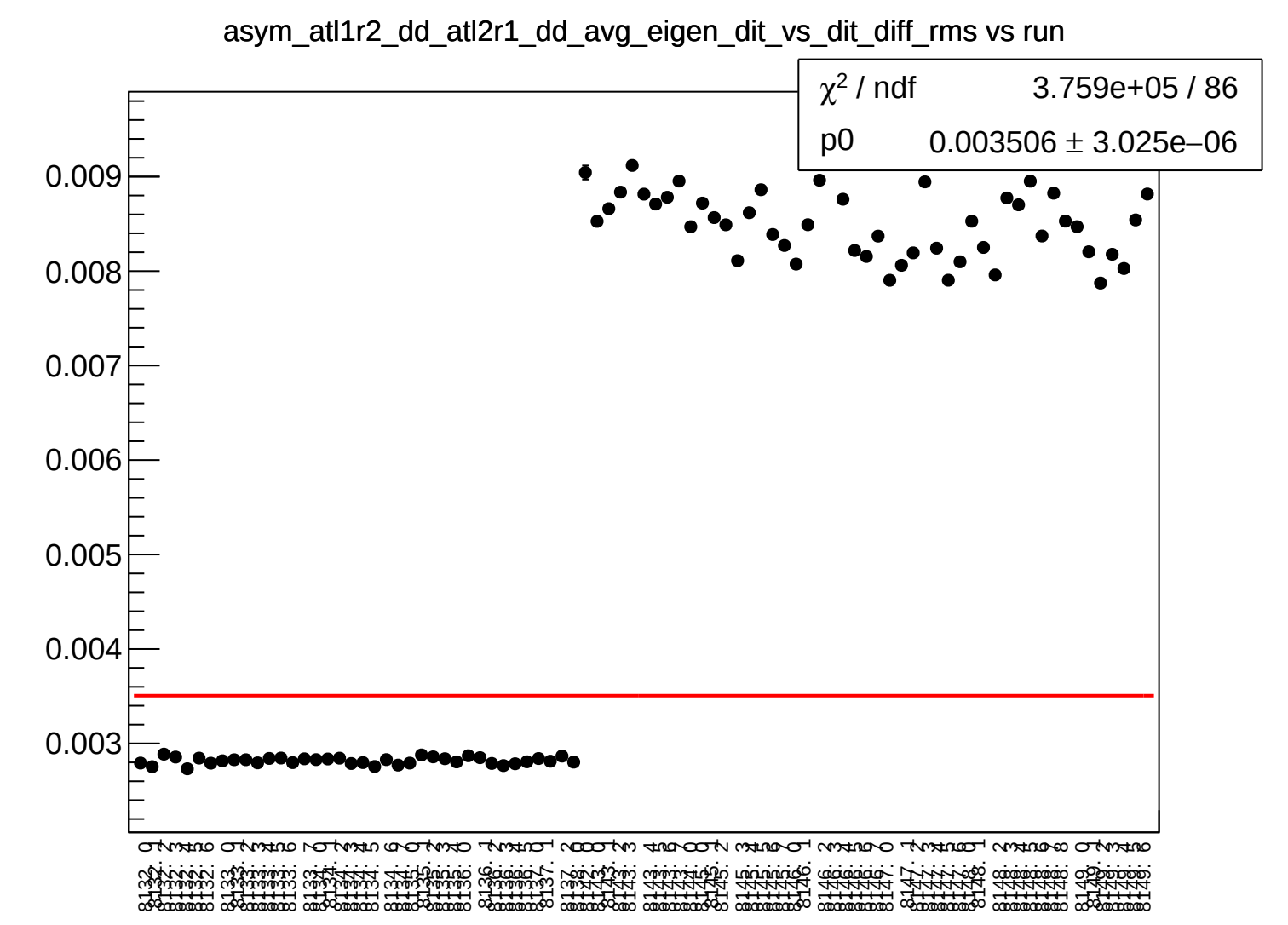

pull1D
Entries 87
Mean −0.09295
Std Dev 0.867

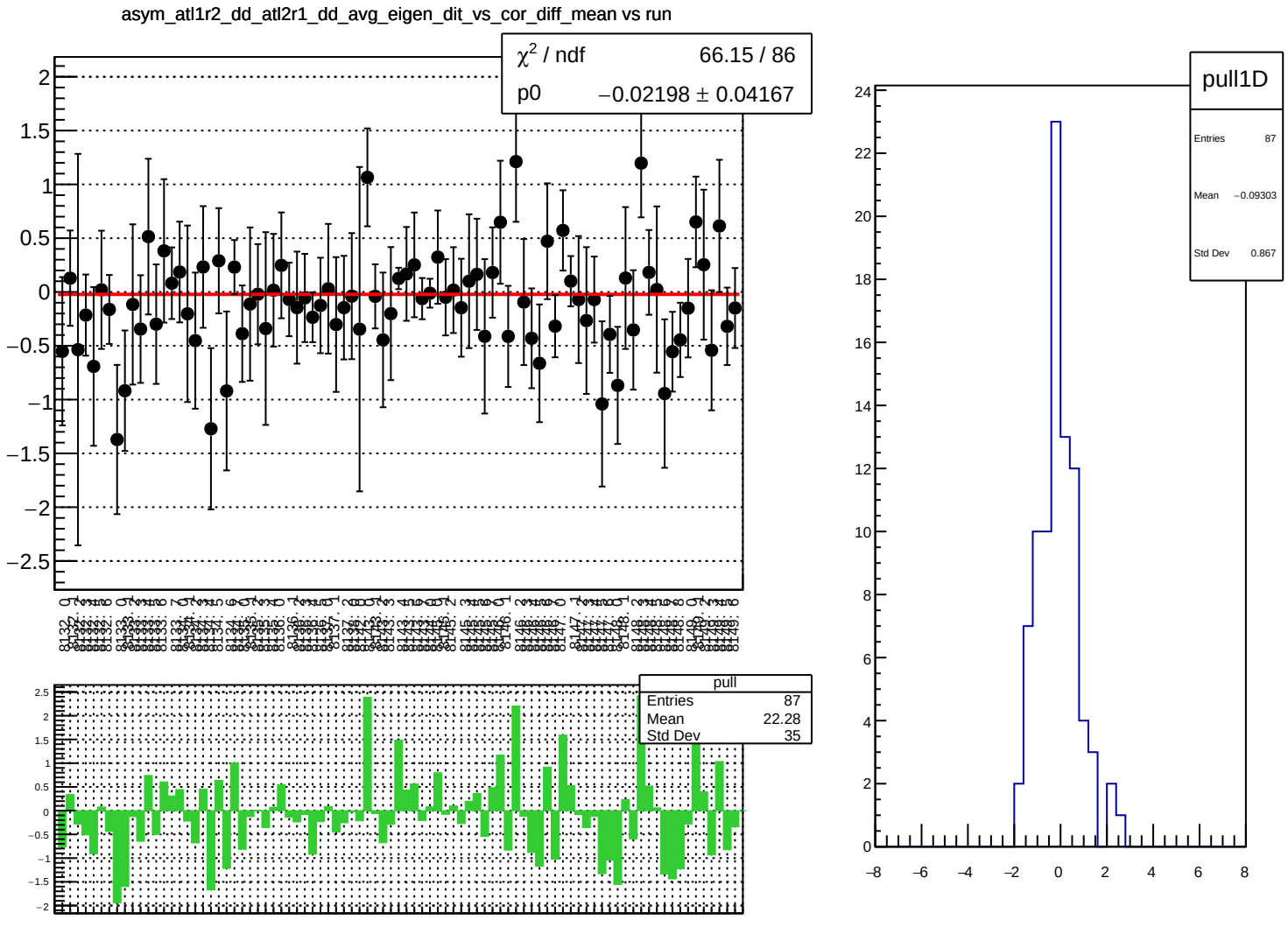

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.806e+05 / 86
p0 34.09 ± 0.02947
180
160
140
120
100
80
60
40
20

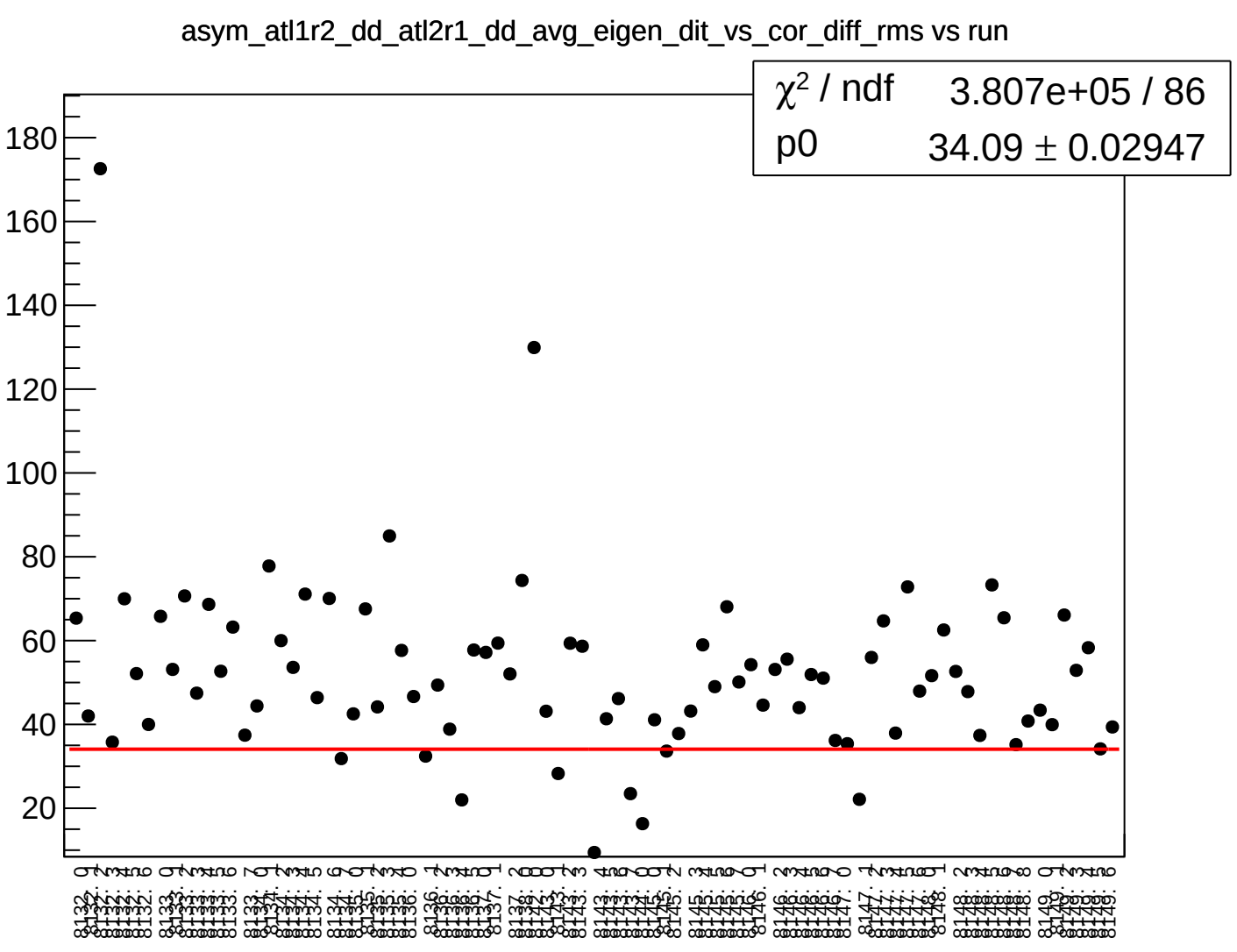

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.14 / 86
p0 −0.02202 ± 0.04168
pull
Entries 87
Mean 22.26
Std Dev 35
pull1D
Entries 87
Mean −0.09295
Std Dev 0.867

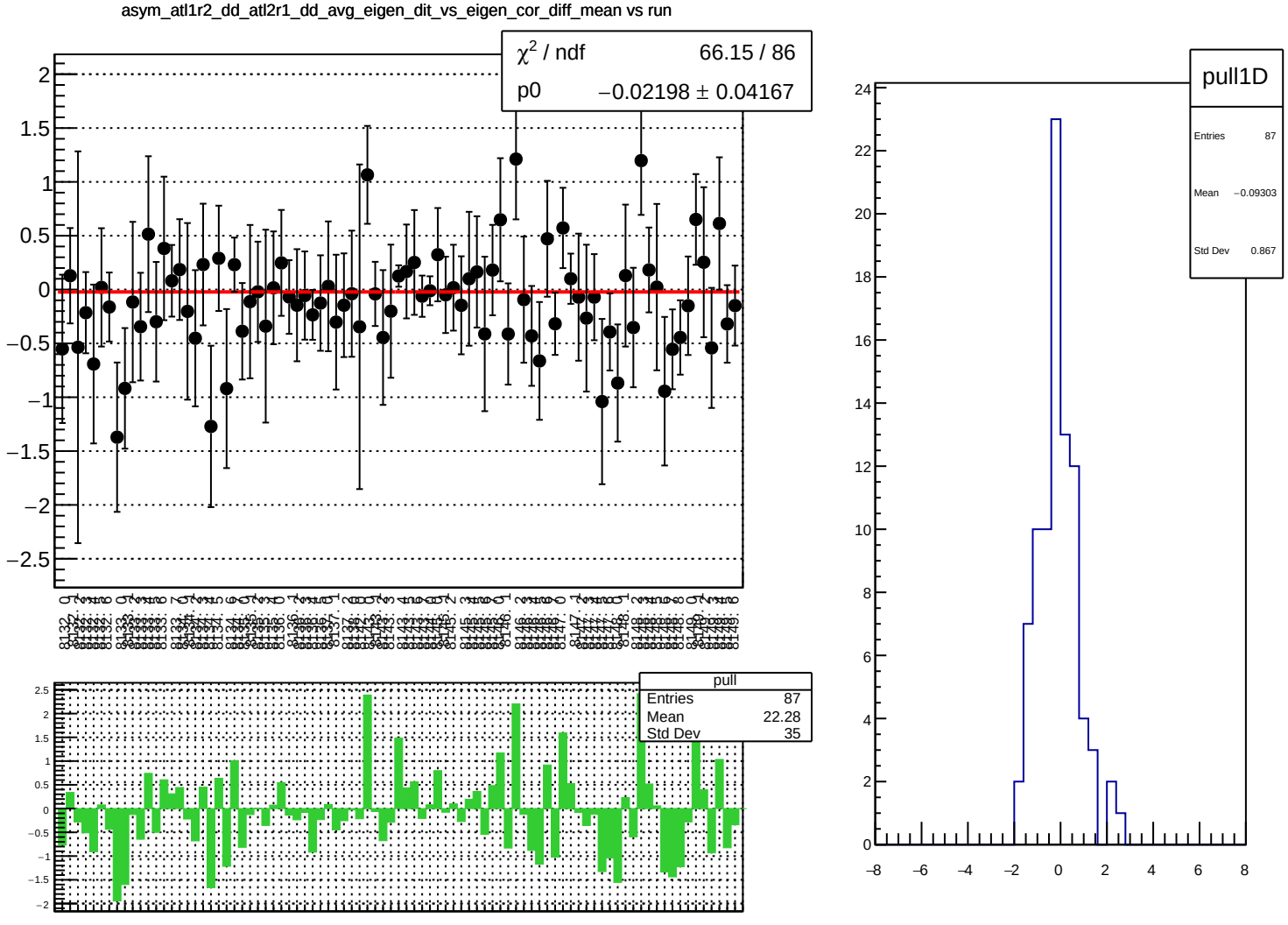

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.806e+05 / 86
p0 34.09 ± 0.02947
180
160
140
120
100
80
60
40
20

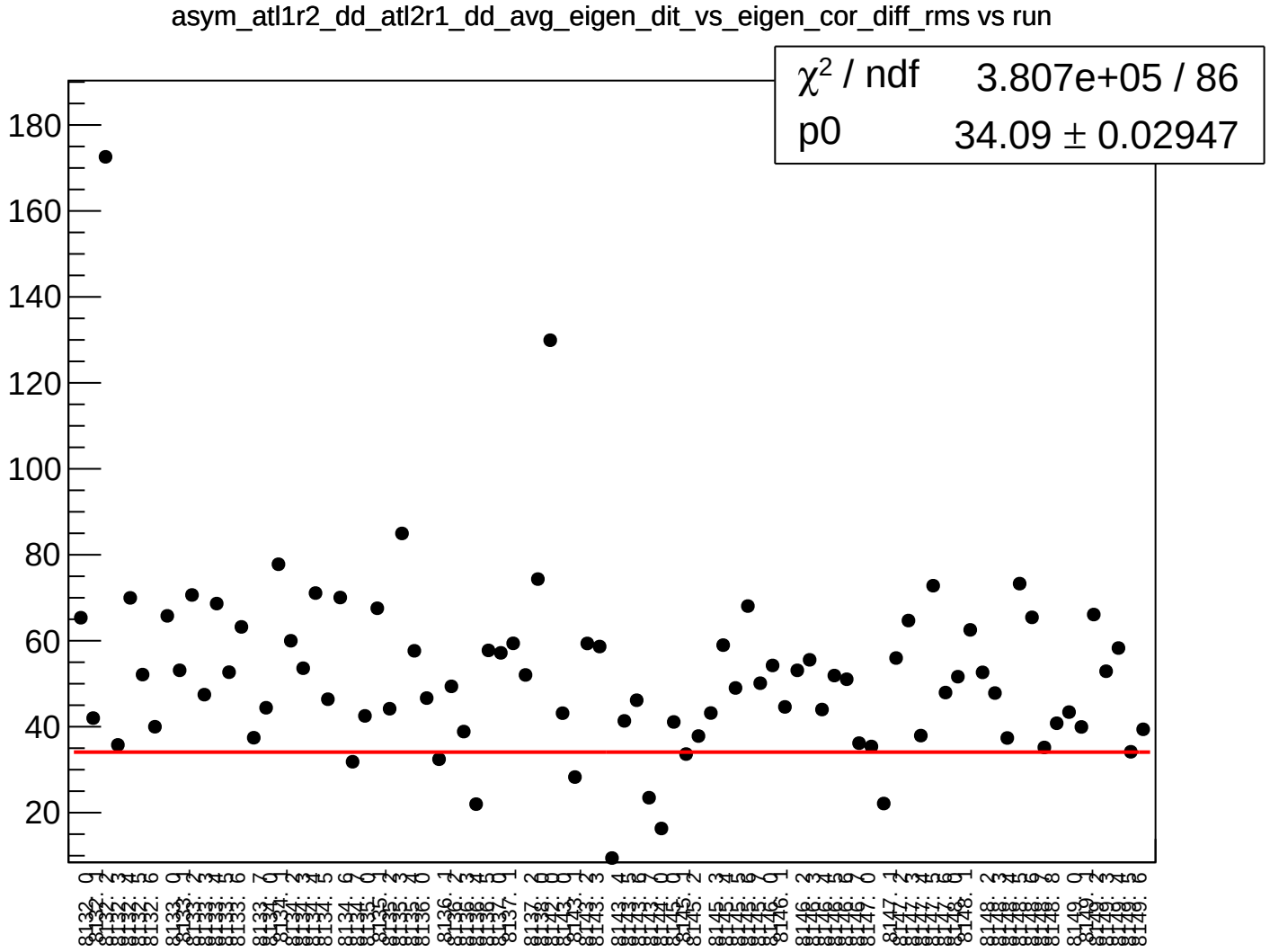

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 103.6 / 86
p0 −3.512e−06 ± 4.279e−06
pull
Entries 87
Mean 54.81
Std Dev 27.85
pull1D
Entries 87
Mean 0.03429
Std Dev 1.091

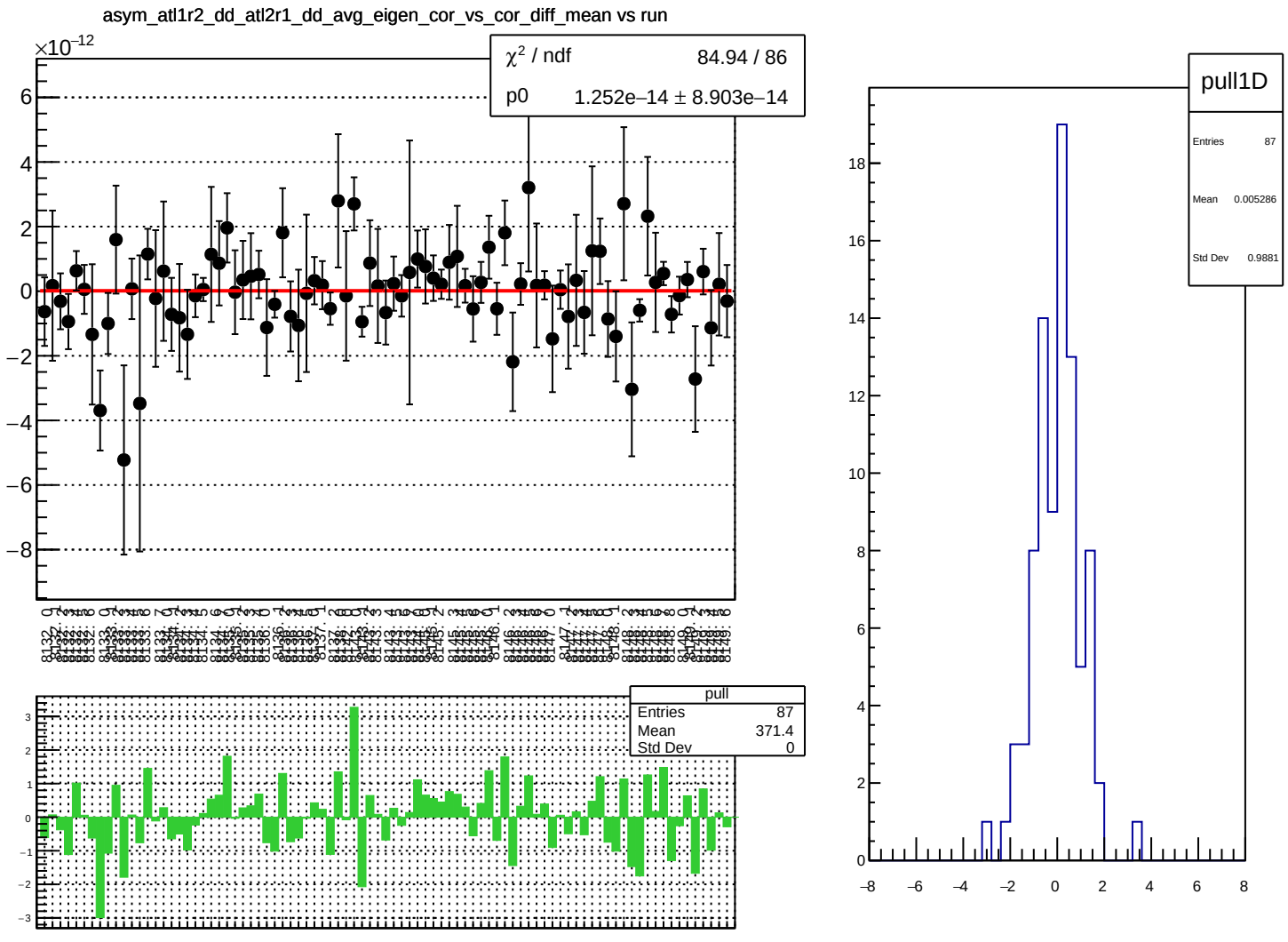

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.759e+05 / 86
p0 0.003506 ± 3.025e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003

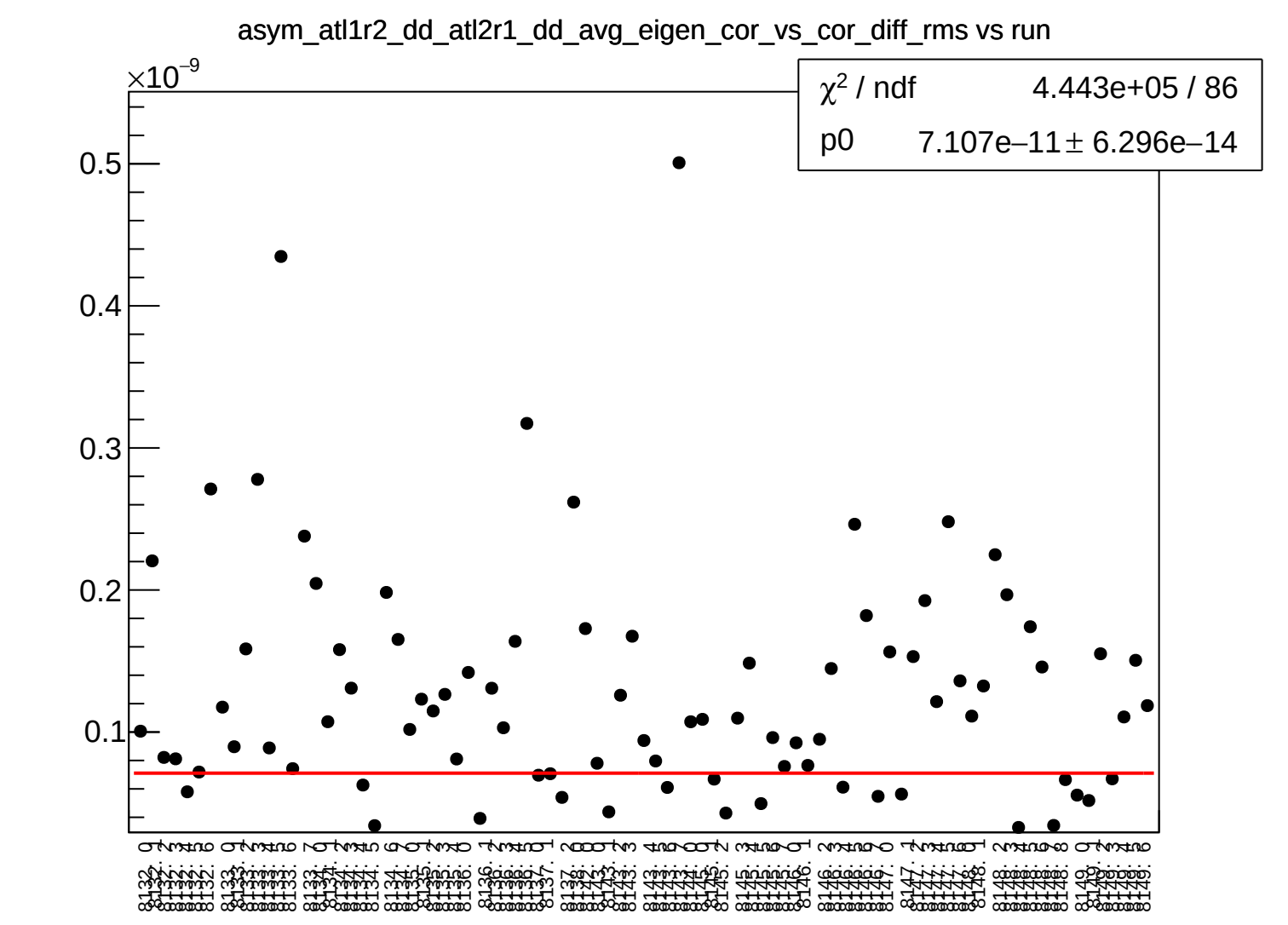

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 66.15 / 86
p0 −0.02198 ± 0.04167
pull
Entries 87
Mean 22.28
Std Dev 35
pull1D
Entries 87
Mean −0.09303
Std Dev 0.867

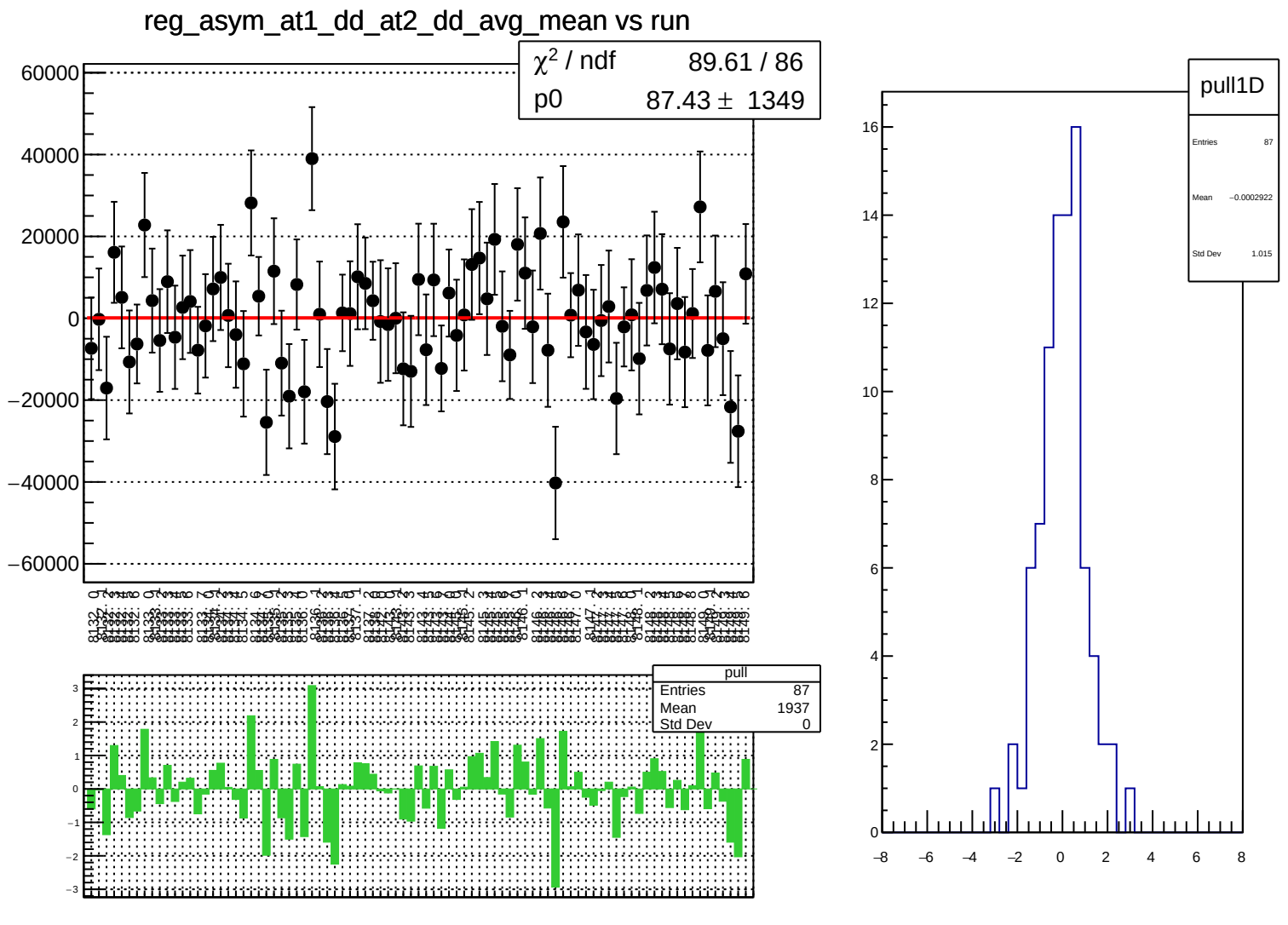

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.807e+05 / 86
p0 34.09 ± 0.02947
180
160
140
120
100
80
60
40
20

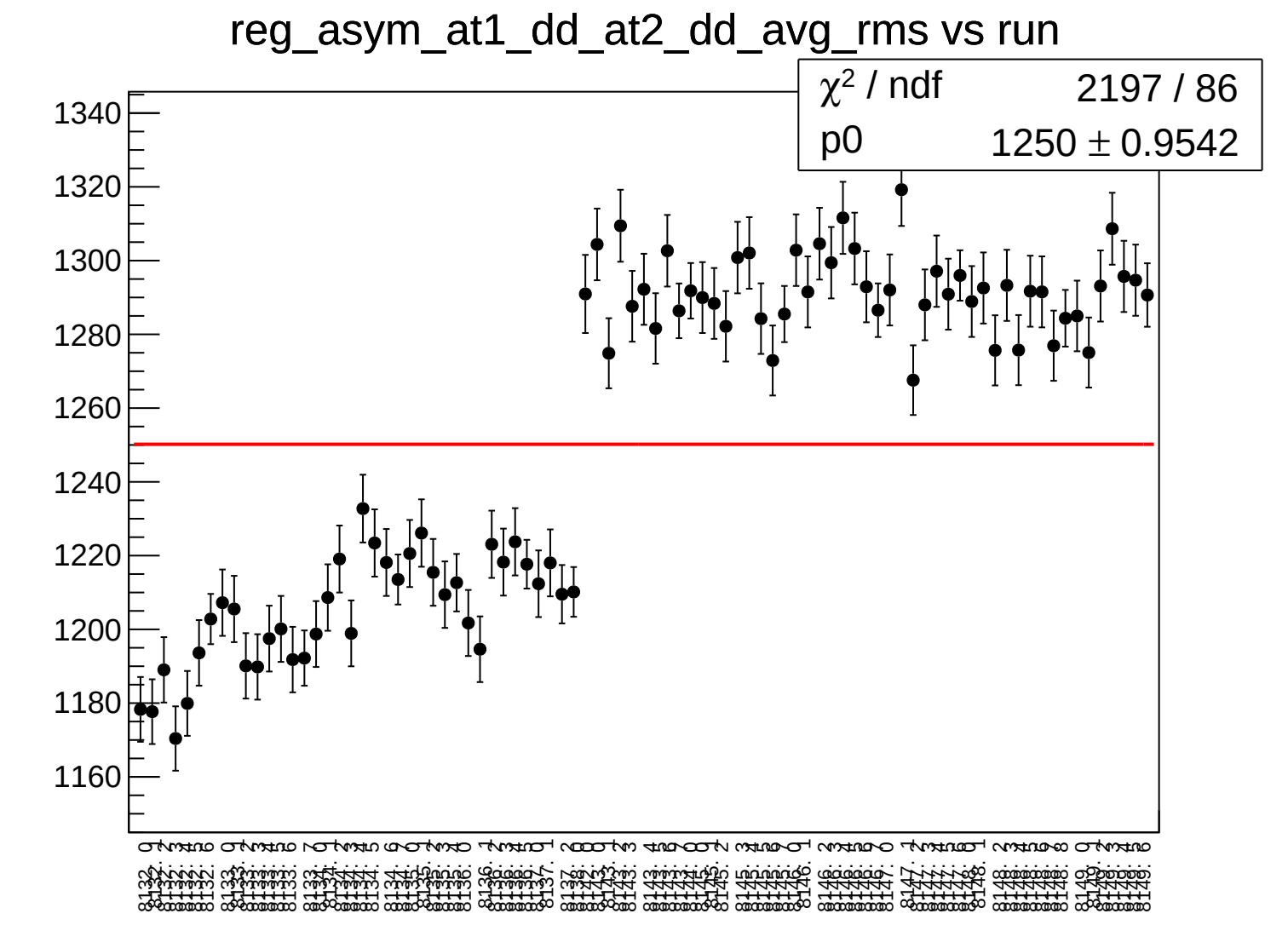

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.15 / 86
p0 −0.02198 ± 0.04167
pull
Entries 87
Mean 22.28
Std Dev 35
pull1D
Entries 87
Mean −0.09303
Std Dev 0.867

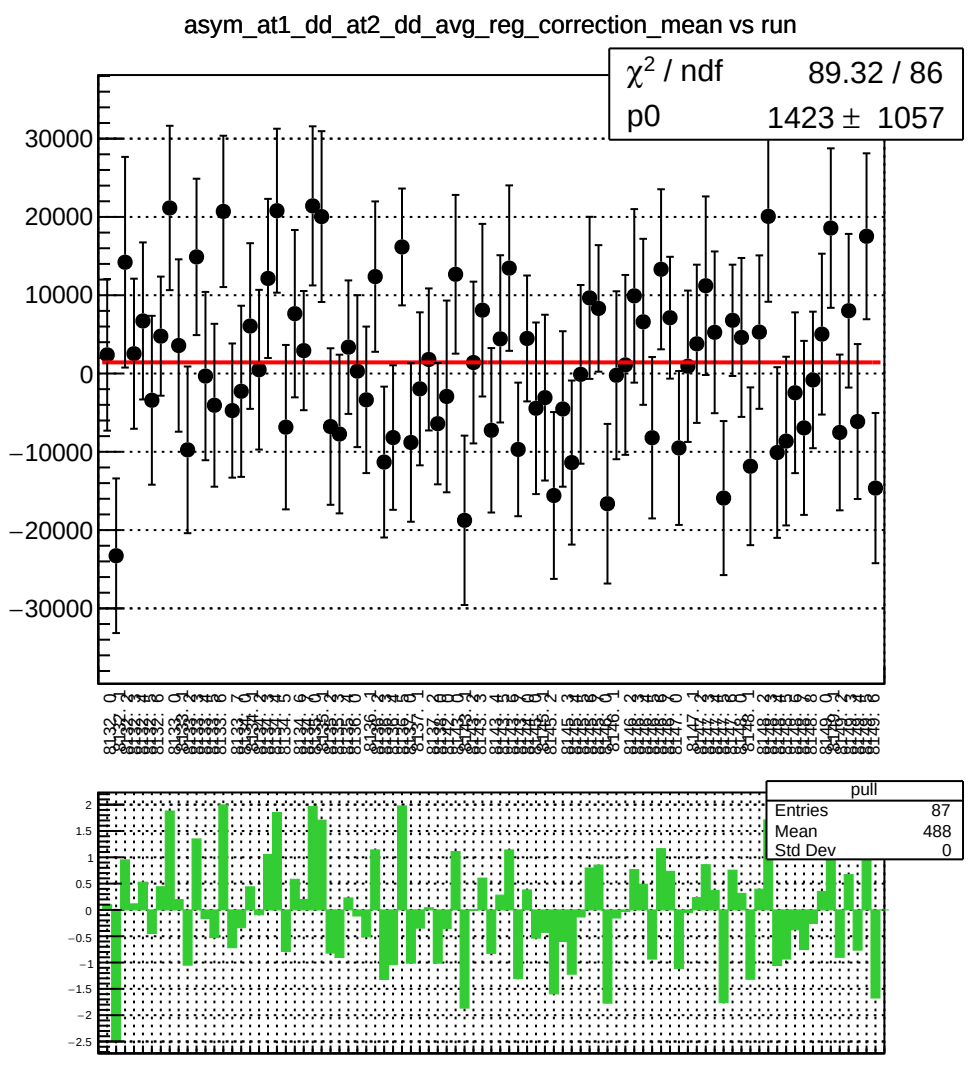

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.807e+05 / 86
p0 34.09 ± 0.02947
180
160
140
120
100
80
60
40
20

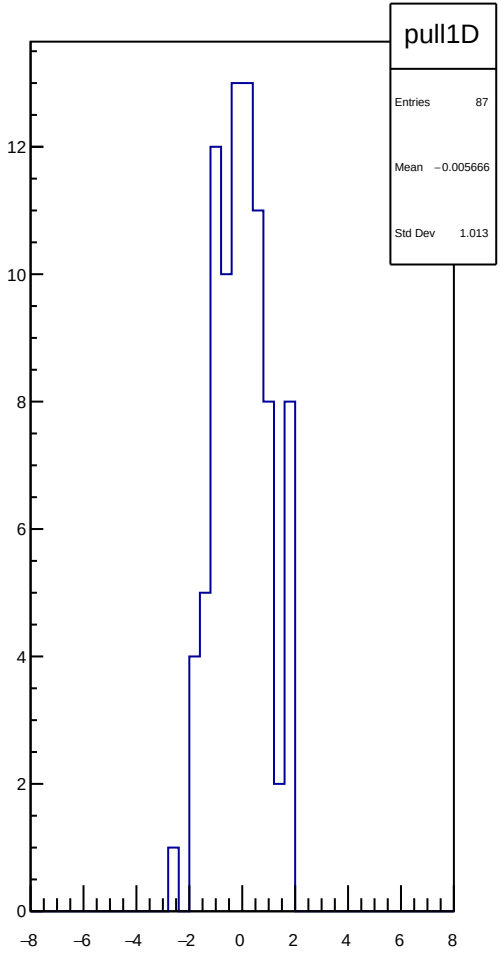

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 84.94 / 86
p0 1.252e−14 ± 8.903e−14
pull
Entries 87
Mean 371.4
Std Dev 0
pull1D
Entries 87
Mean 0.005286
Std Dev 0.9881

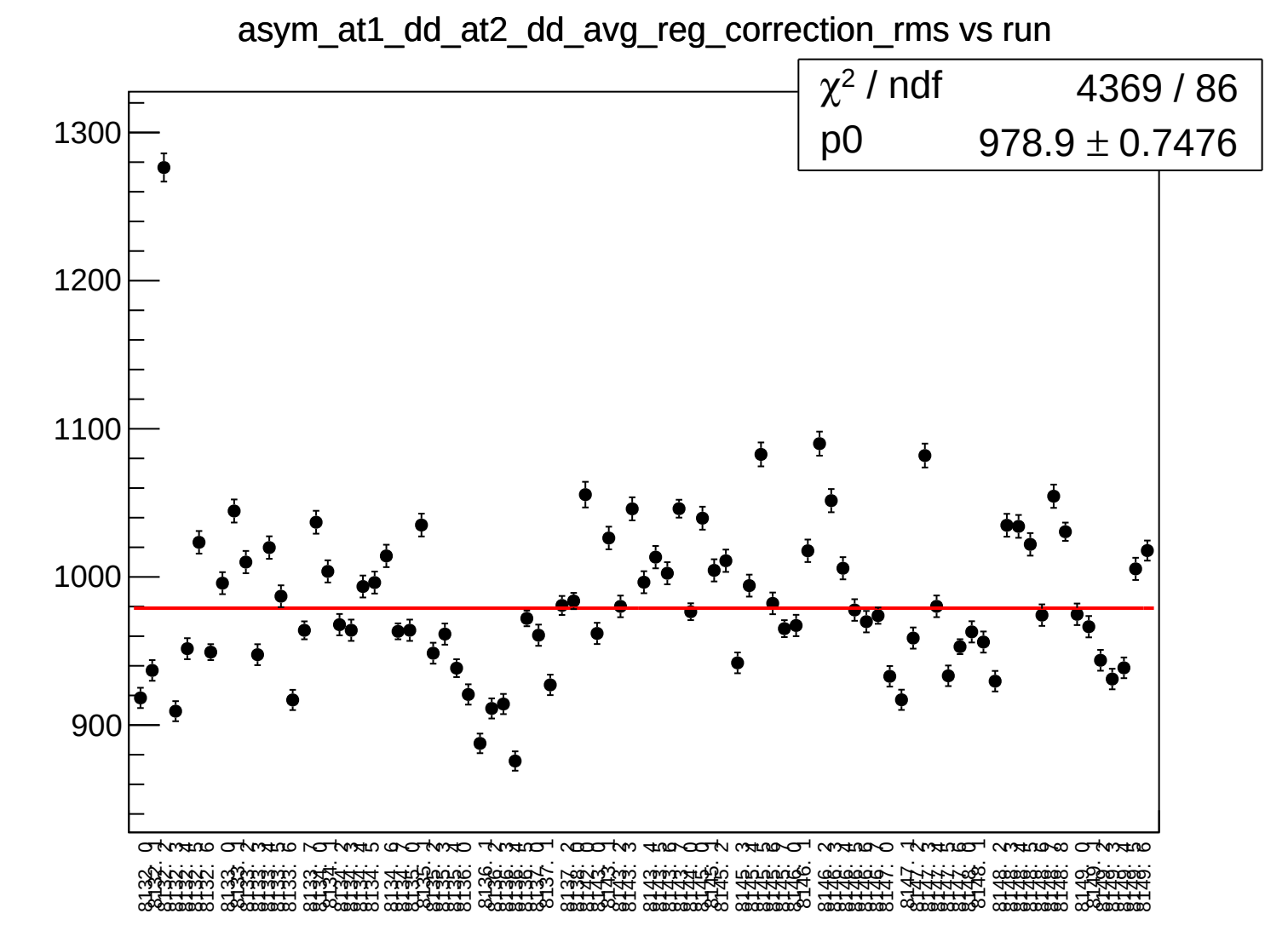

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.443e+05 / 86
p0 7.107e−11 ± 6.296e−14
0.5
0.4
0.3
0.2
0.1

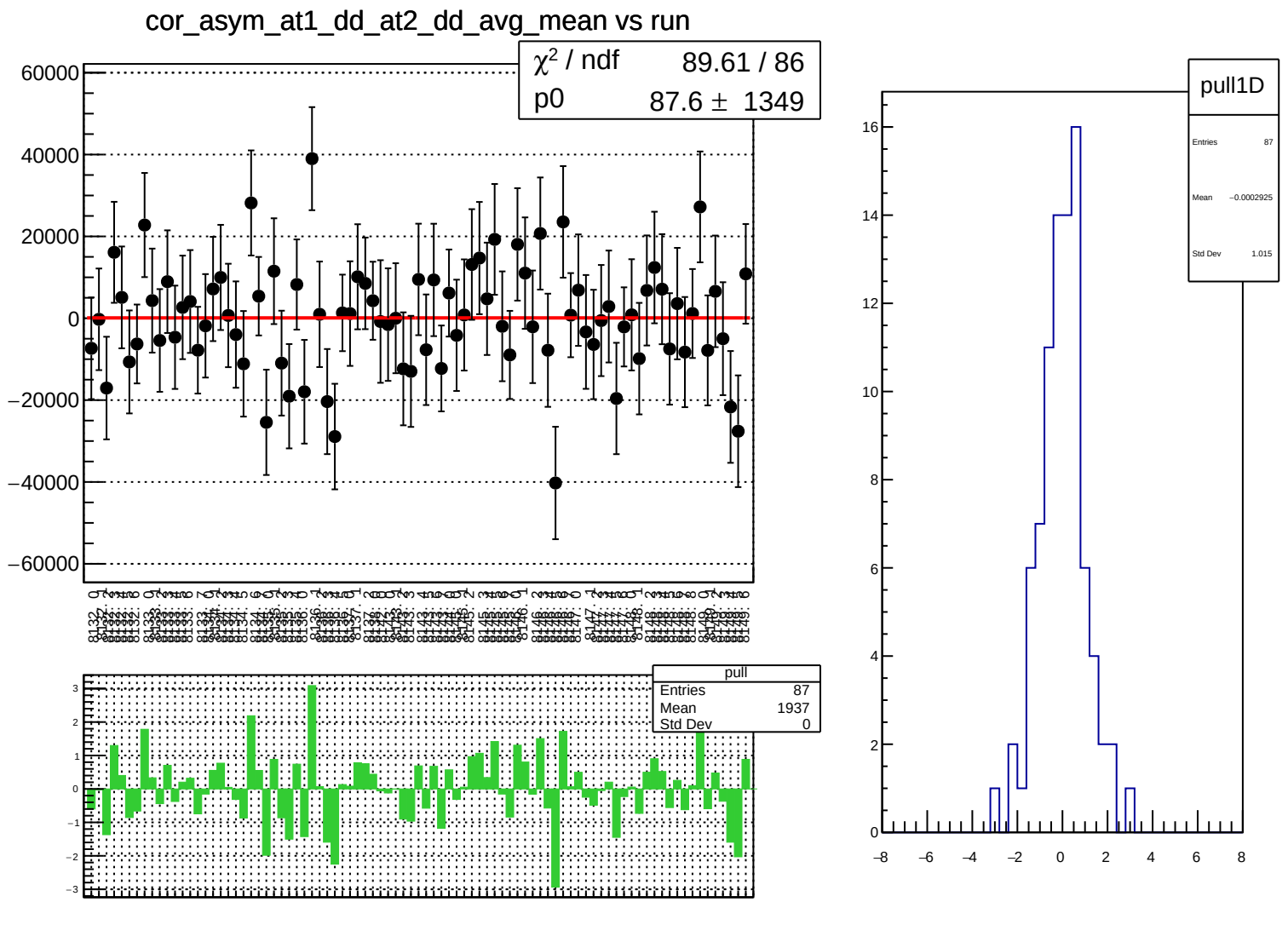

reg_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 89.61 / 86
p0 87.43 ± 1349
pull
Entries 87
Mean 1937
Std Dev 0
pull1D
Entries 87
Mean −0.0002922
Std Dev 1.015

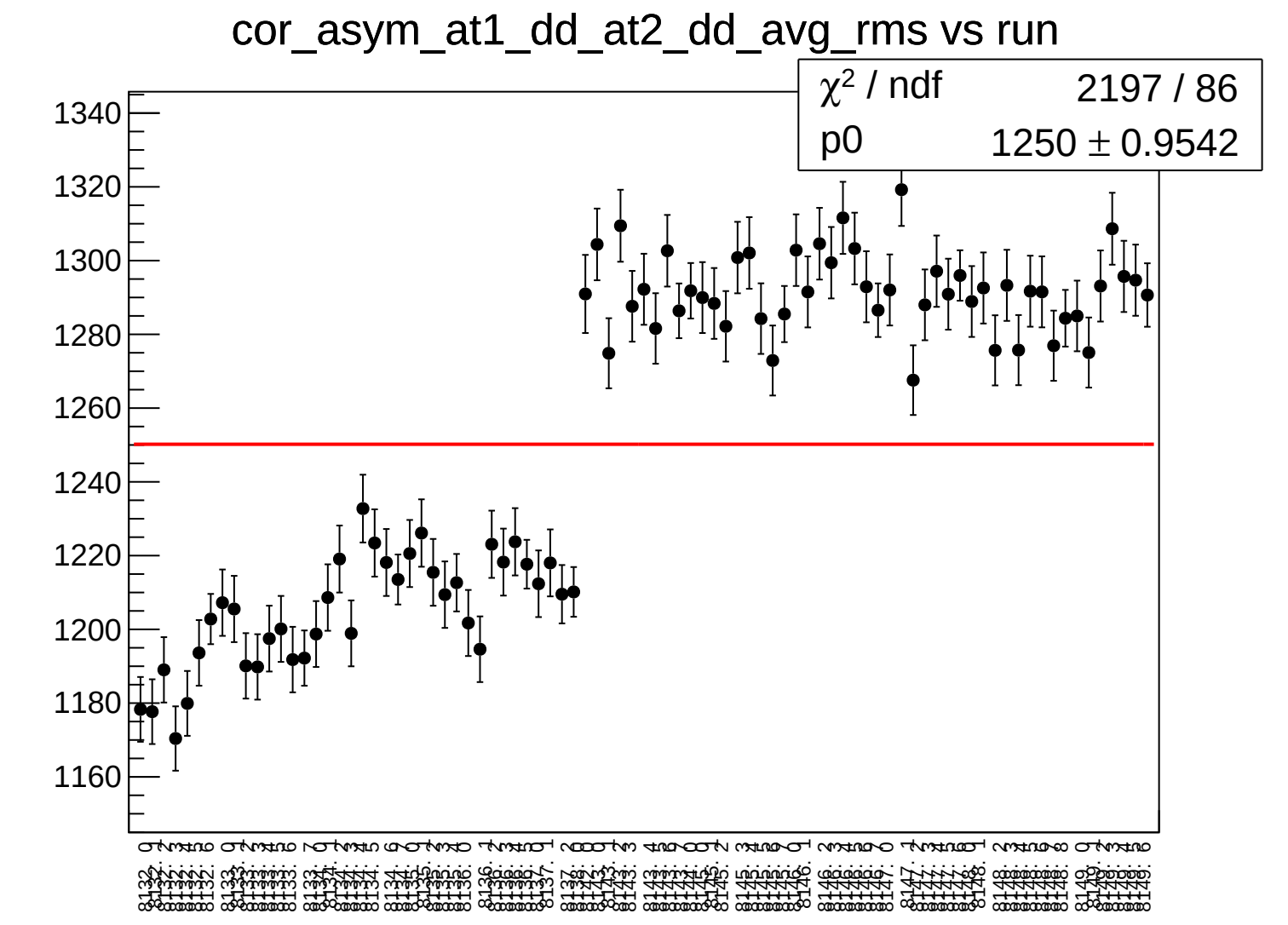

reg_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 2197 / 86
p0 1250 ± 0.9542
1340
1320
1300
1280
1260
1240
1220
1200
1180
1160

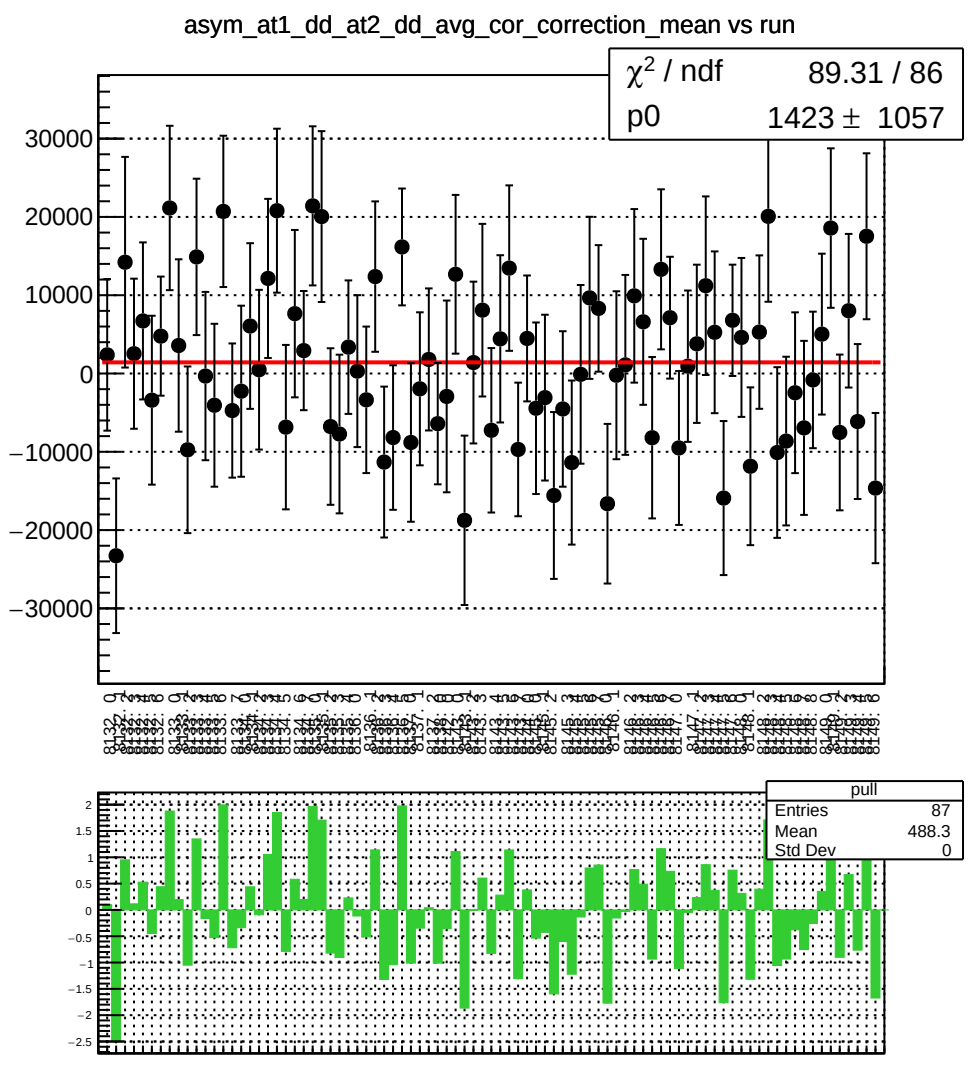

asym_at1_dd_at2_dd_avg_reg_correction_mean vs run
χ² / ndf 89.32 / 86
p0 1423 ± 1057
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean 488
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

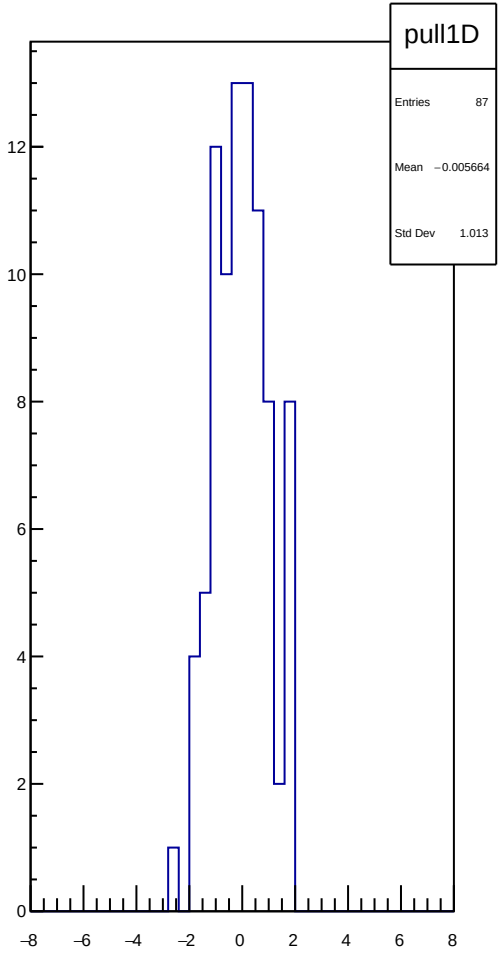

pull1D
Entries 87
Mean −0.005666
Std Dev 1.013
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

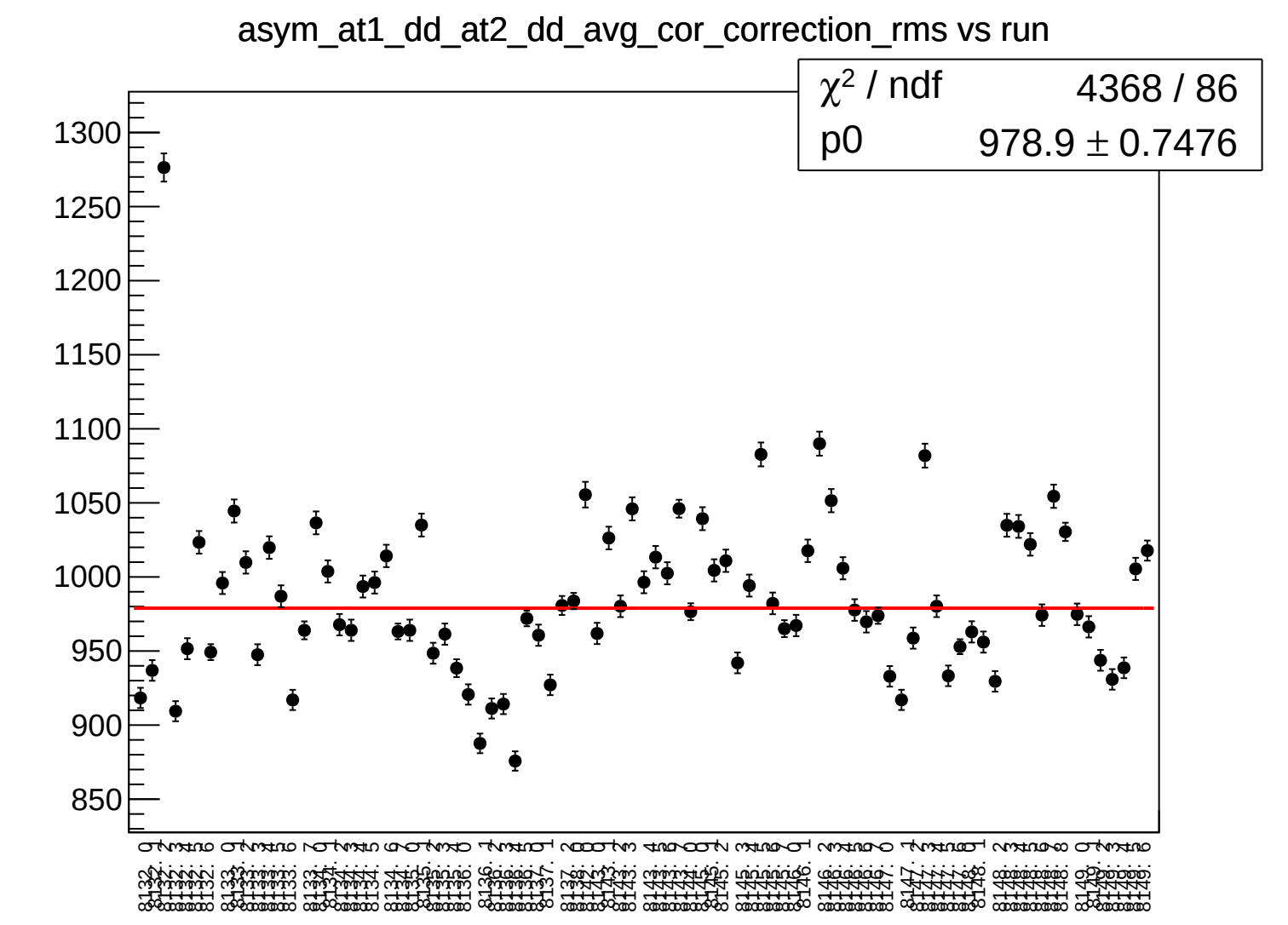

asym_at1_dd_at2_dd_avg_reg_correction_rms vs run
χ² / ndf 4369 / 86
p0 978.9 ± 0.7476
1300
1200
1100
1000
900

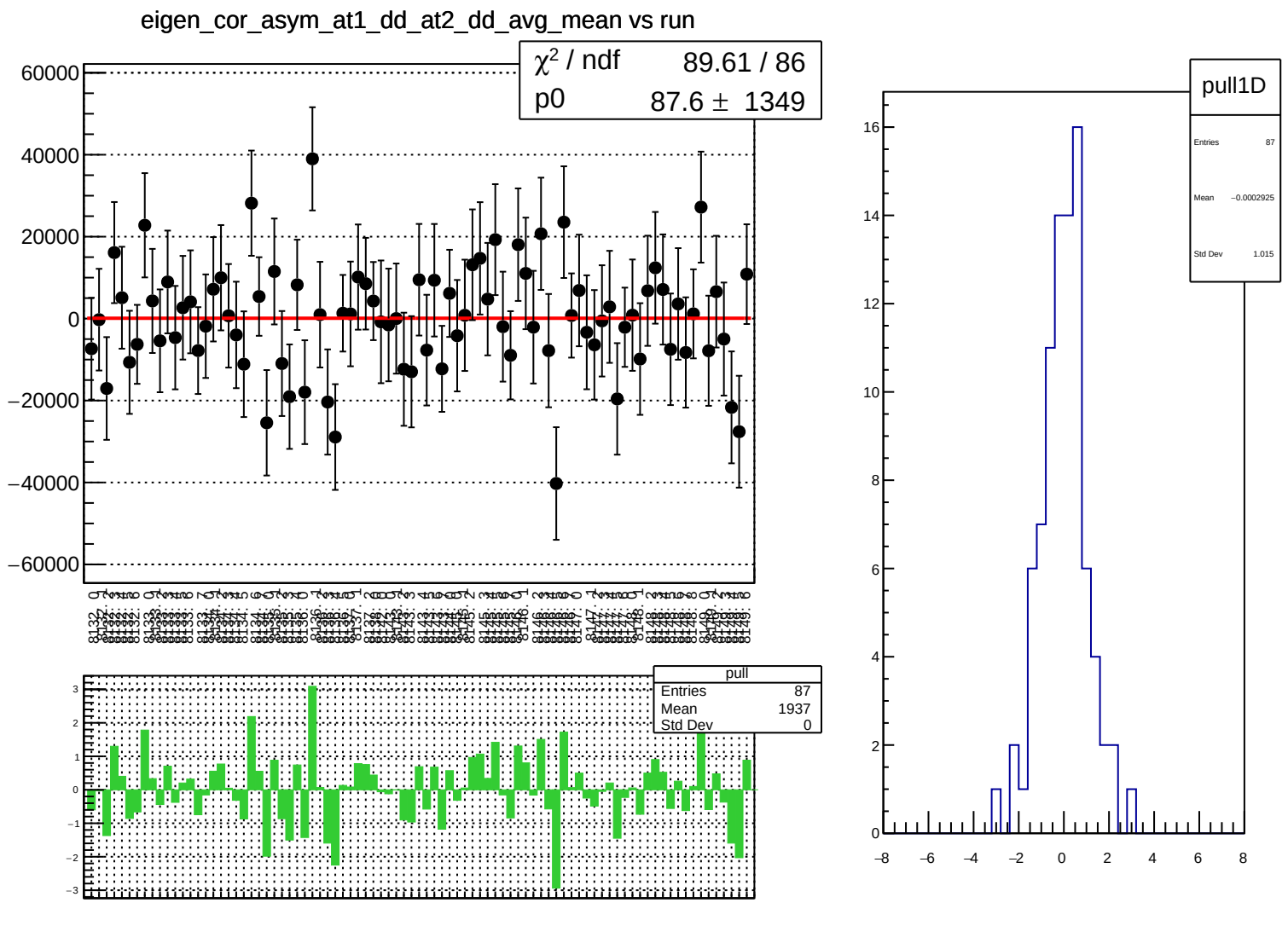

cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 89.61 / 86
p0 87.6 ± 1349
pull
Entries 87
Mean 1937
Std Dev 0
pull1D
Entries 87
Mean −0.0002925
Std Dev 1.015

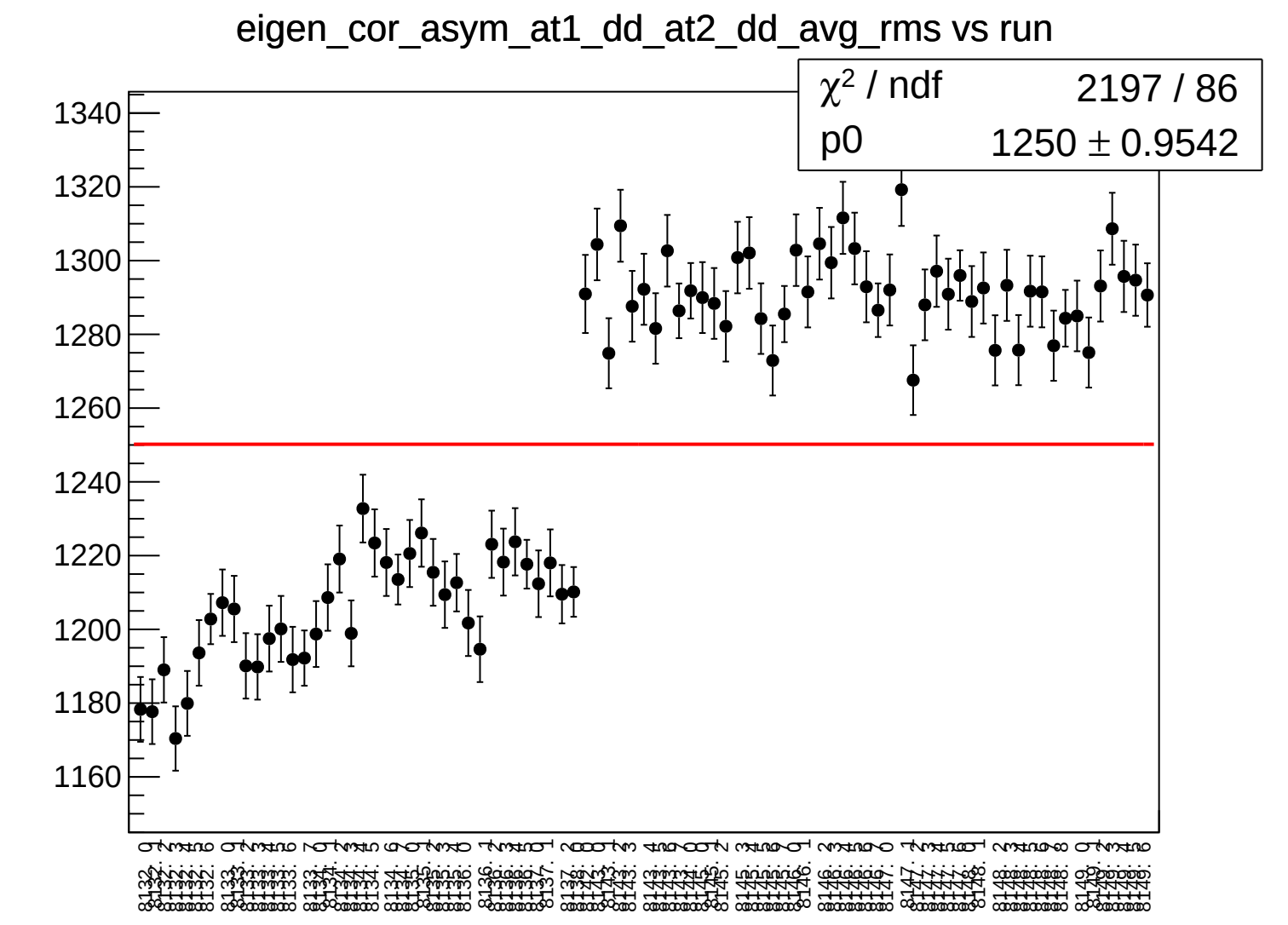

cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 2197 / 86
p0 1250 ± 0.9542
1340
1320
1300
1280
1260
1240
1220
1200
1180
1160

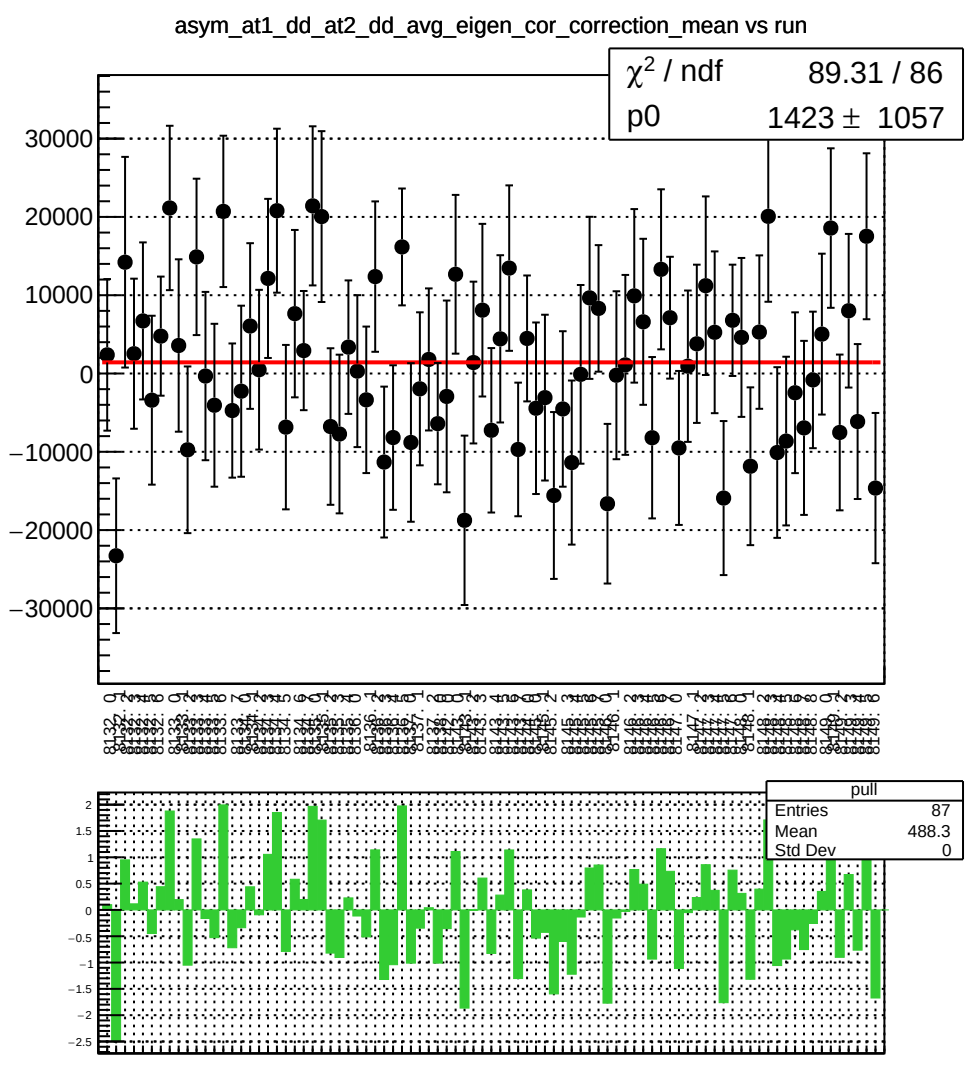

asym_at1_dd_at2_dd_avg_cor_correction_mean vs run
χ² / ndf 89.31 / 86
p0 1423 ± 1057
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean 488.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

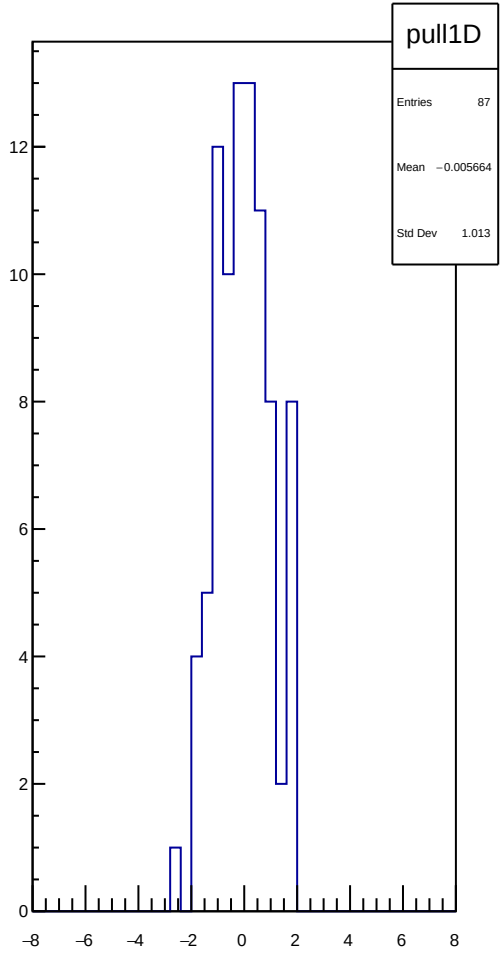

pull1D
Entries 87
Mean −0.005664
Std Dev 1.013
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

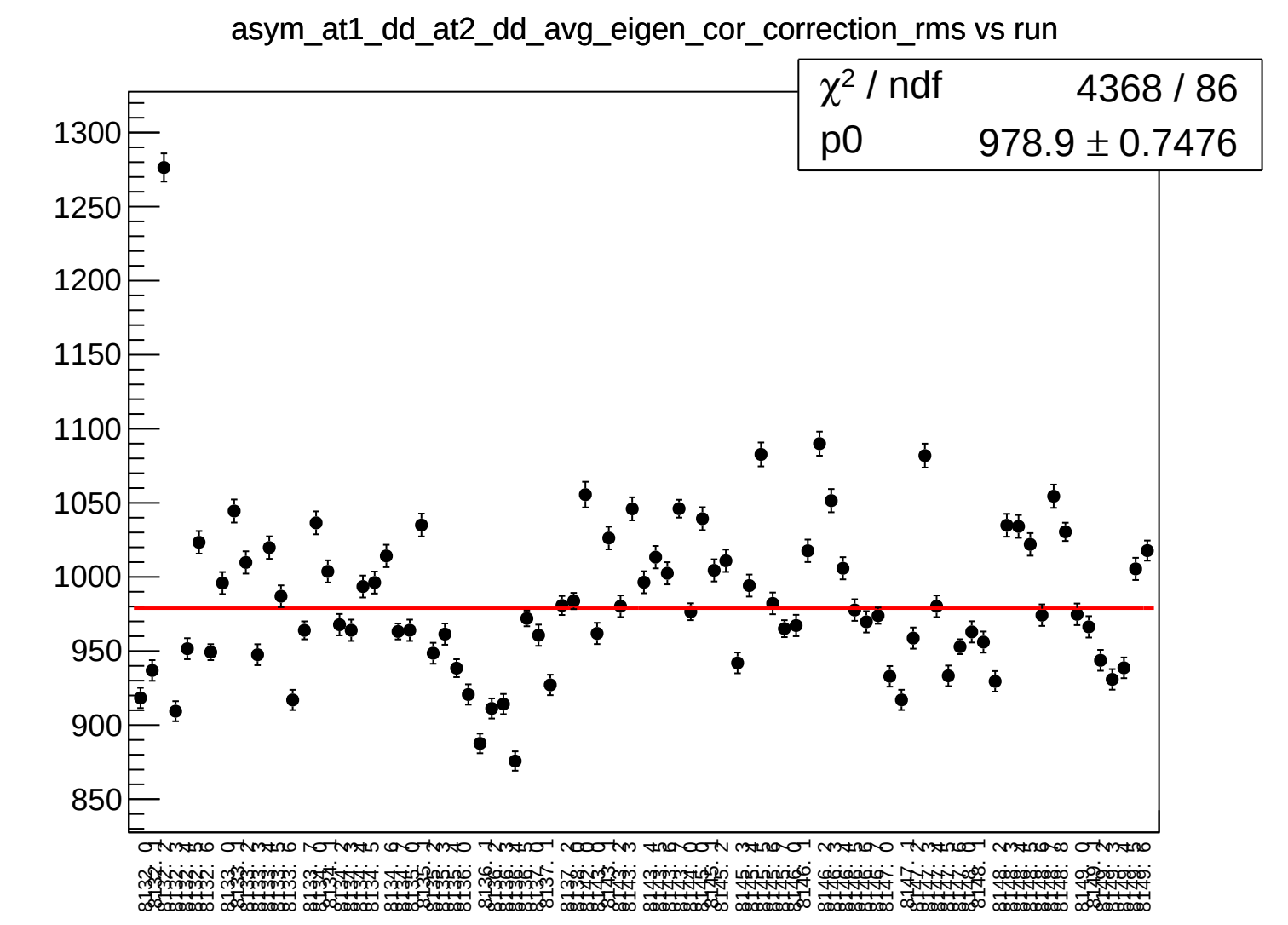

asym_at1_dd_at2_dd_avg_cor_correction_rms vs run
χ² / ndf 4368 / 86
p0 978.9 ± 0.7476
1300
1250
1200
1150
1100
1050
1000
950
900
850

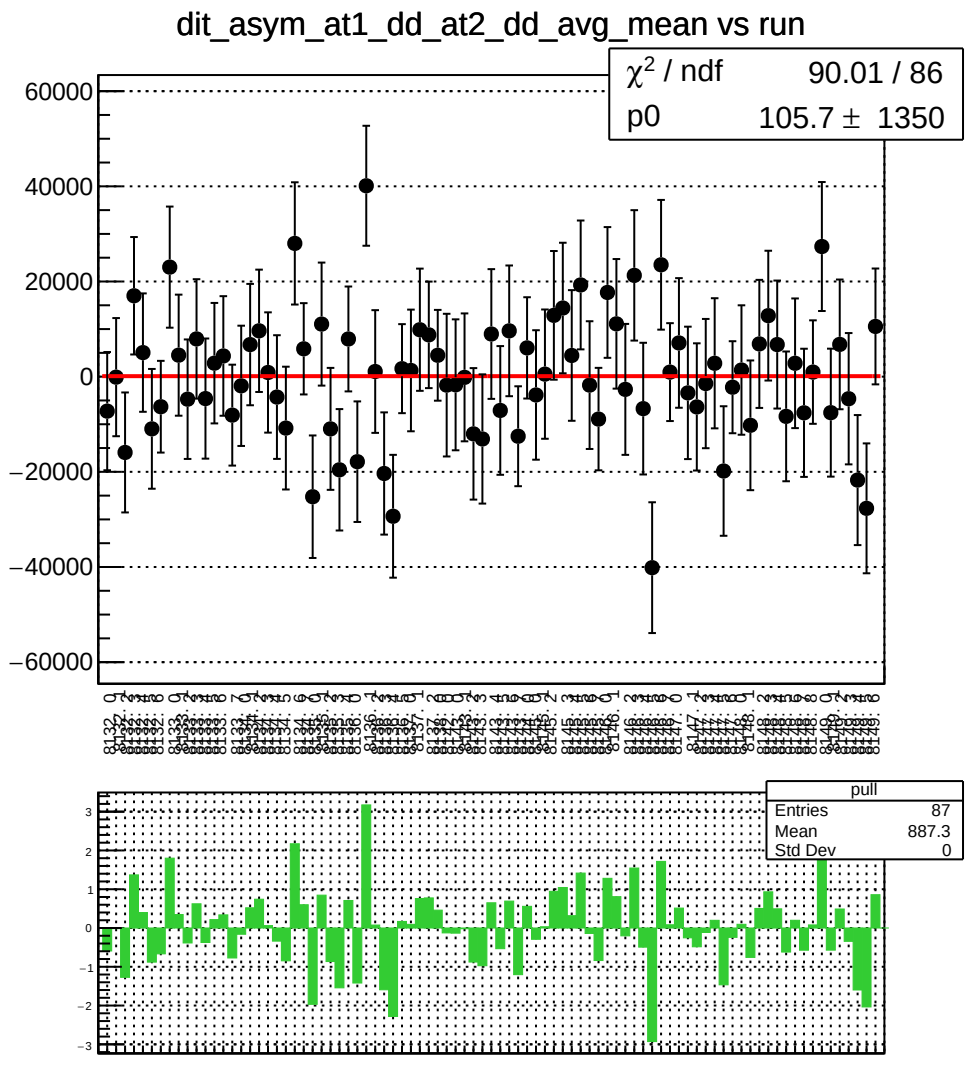

eigen_cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 89.61 / 86
p0 87.6 ± 1349
pull
Entries 87
Mean 1937
Std Dev 0
pull1D
Entries 87
Mean −0.0002925
Std Dev 1.015

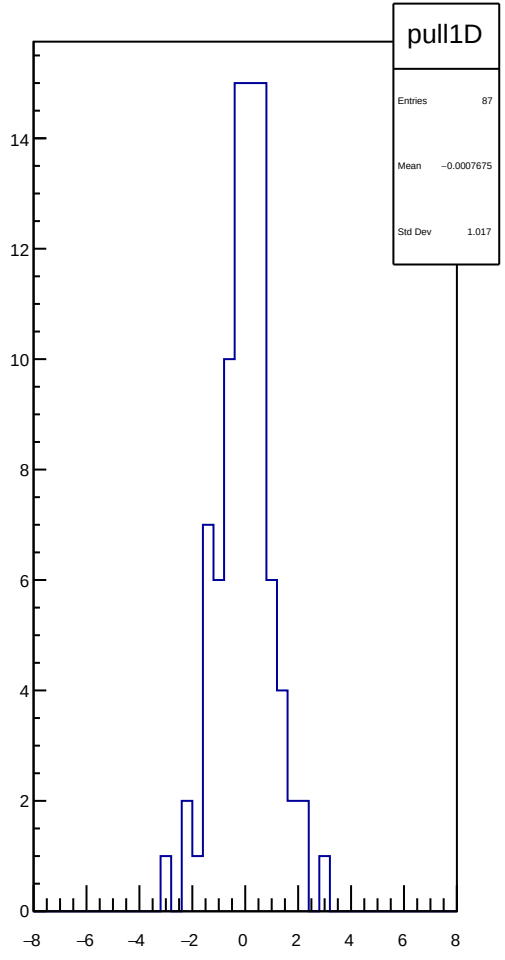

eigen_cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 2197 / 86
p0 1250 ± 0.9542
1340
1320
1300
1280
1260
1240
1220
1200
1180
1160

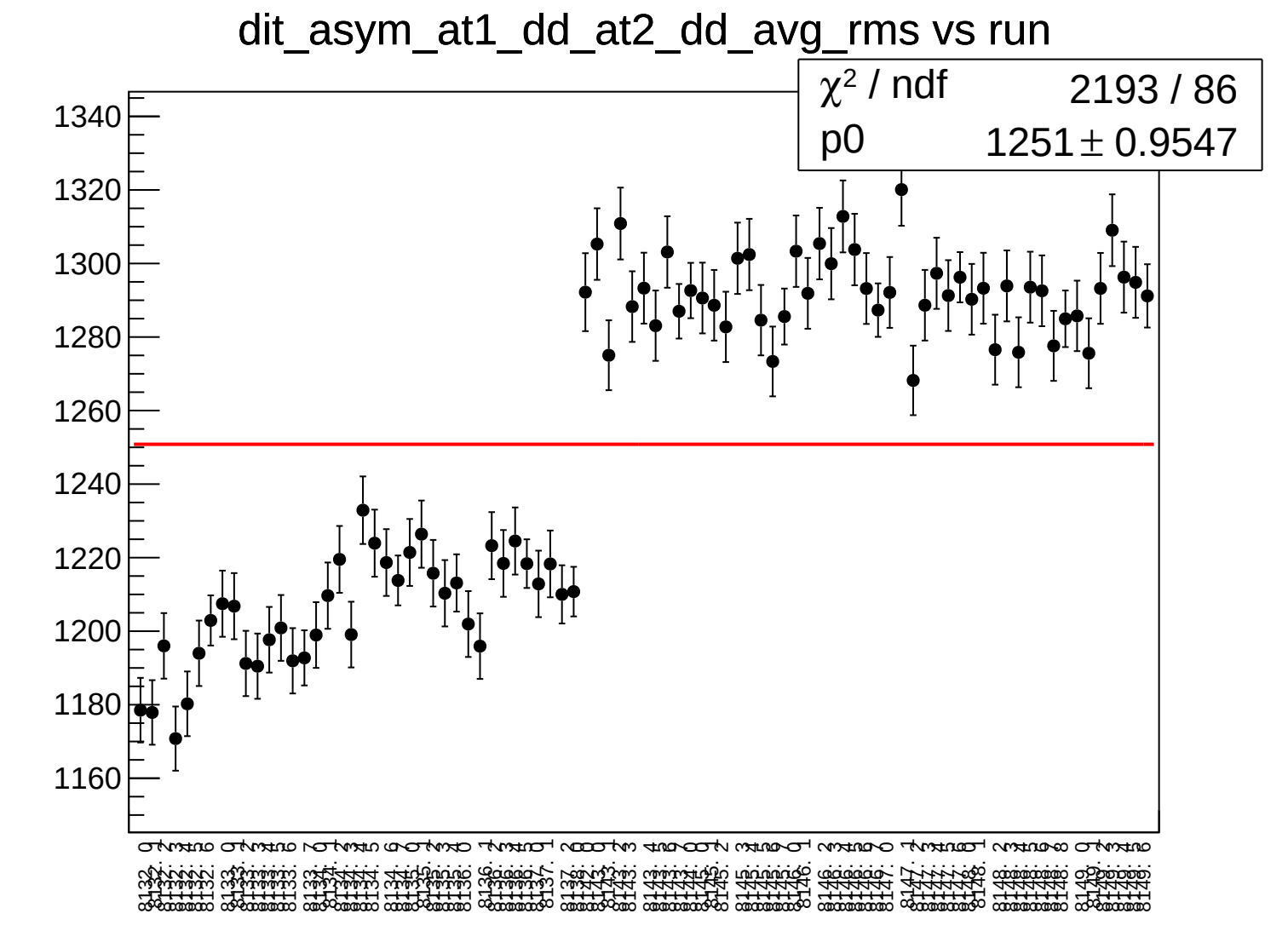

asym_at1_dd_at2_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 89.31 / 86
p0 1423 ± 1057
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean 488.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

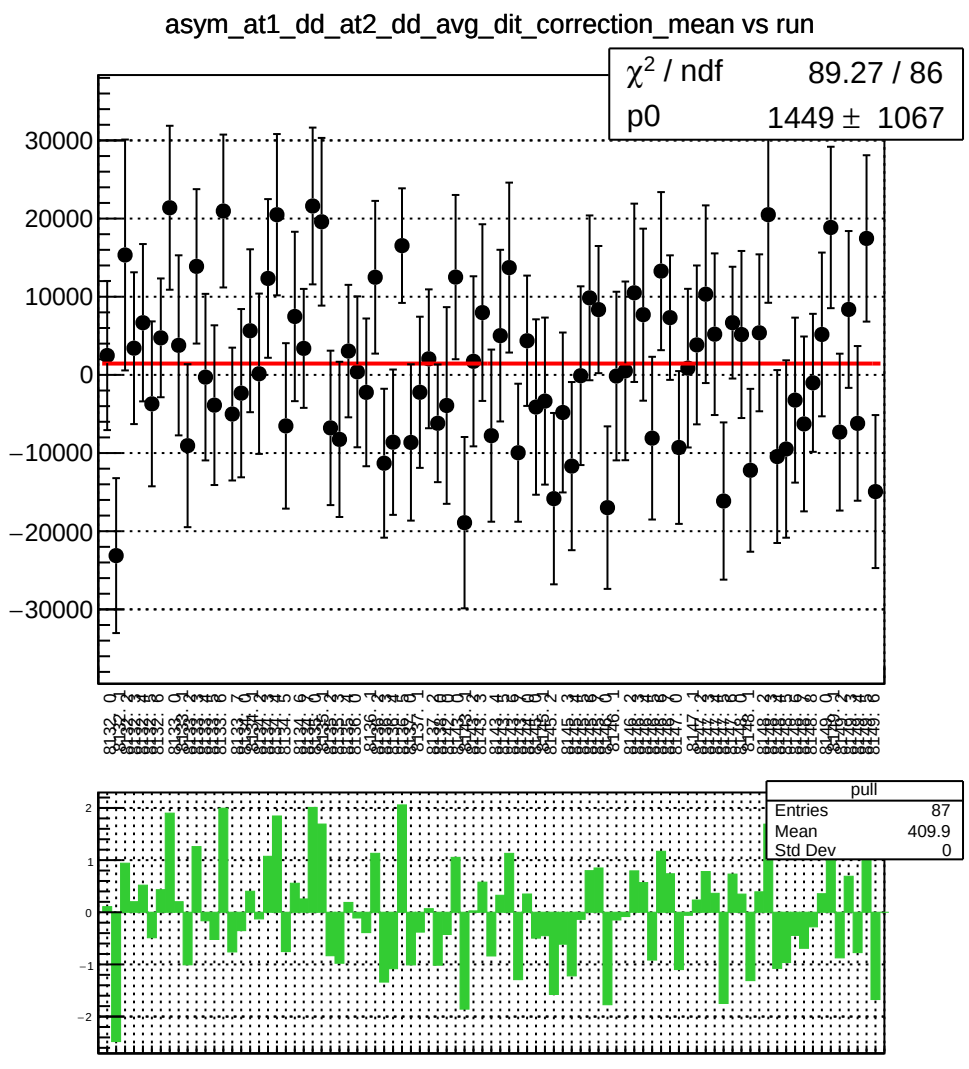

pull1D
Entries 87
Mean −0.005664
Std Dev 1.013
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

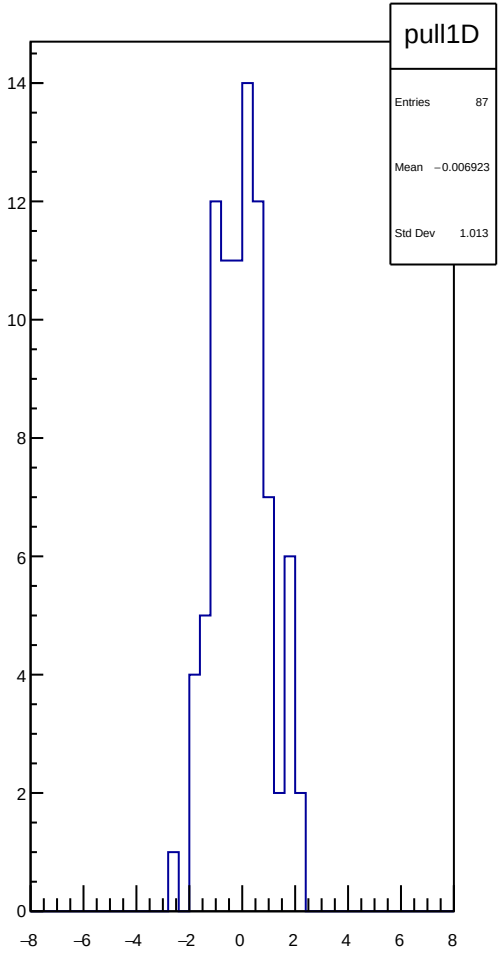

asym_at1_dd_at2_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 4368 / 86
p0 978.9 ± 0.7476
1300
1250
1200
1150
1100
1050
1000
950
900
850

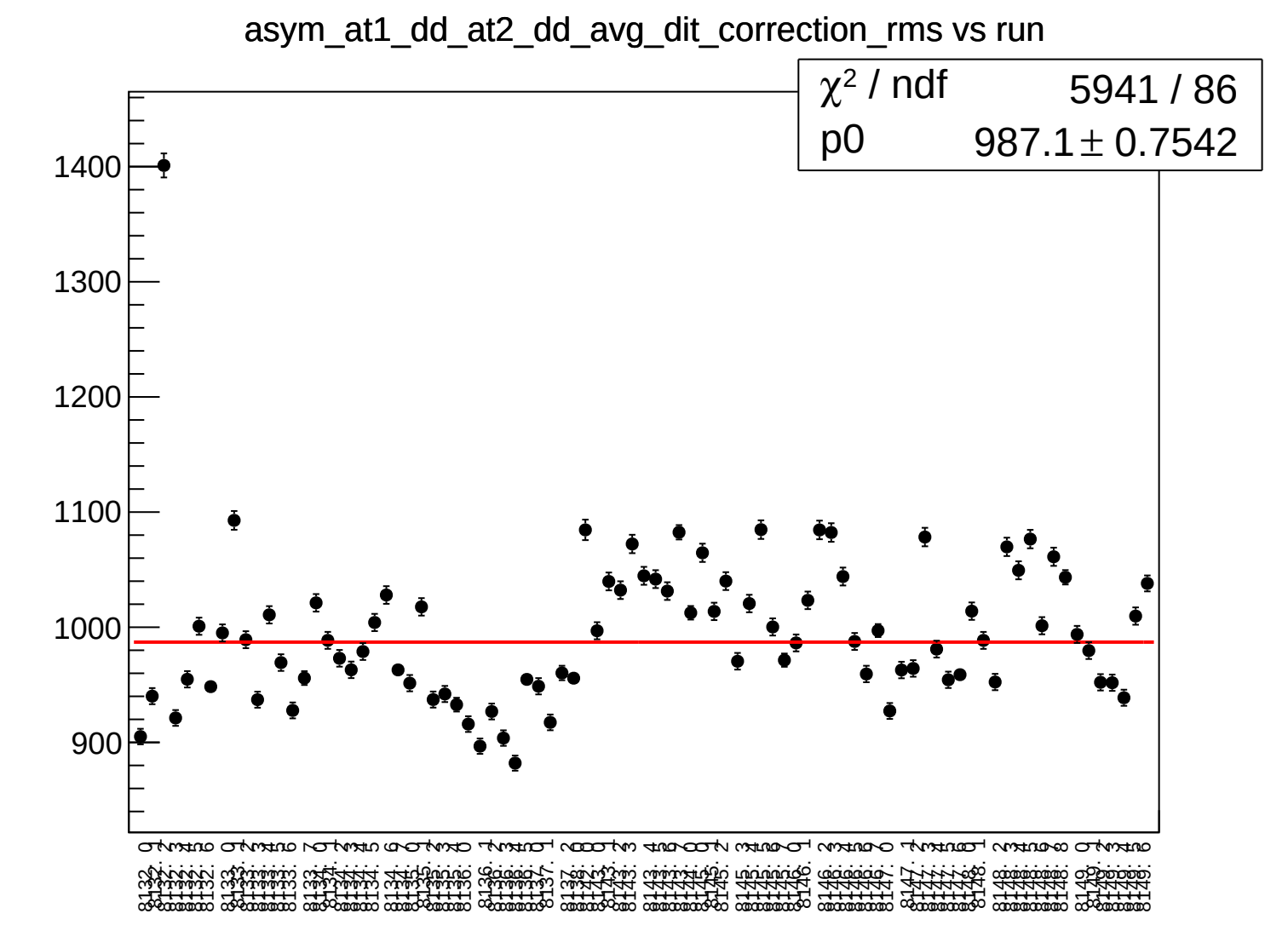

dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 90.01 / 86
p0 105.7 ± 1350
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 887.3
Std Dev 0
3
2
1
0
−1
−2
−3

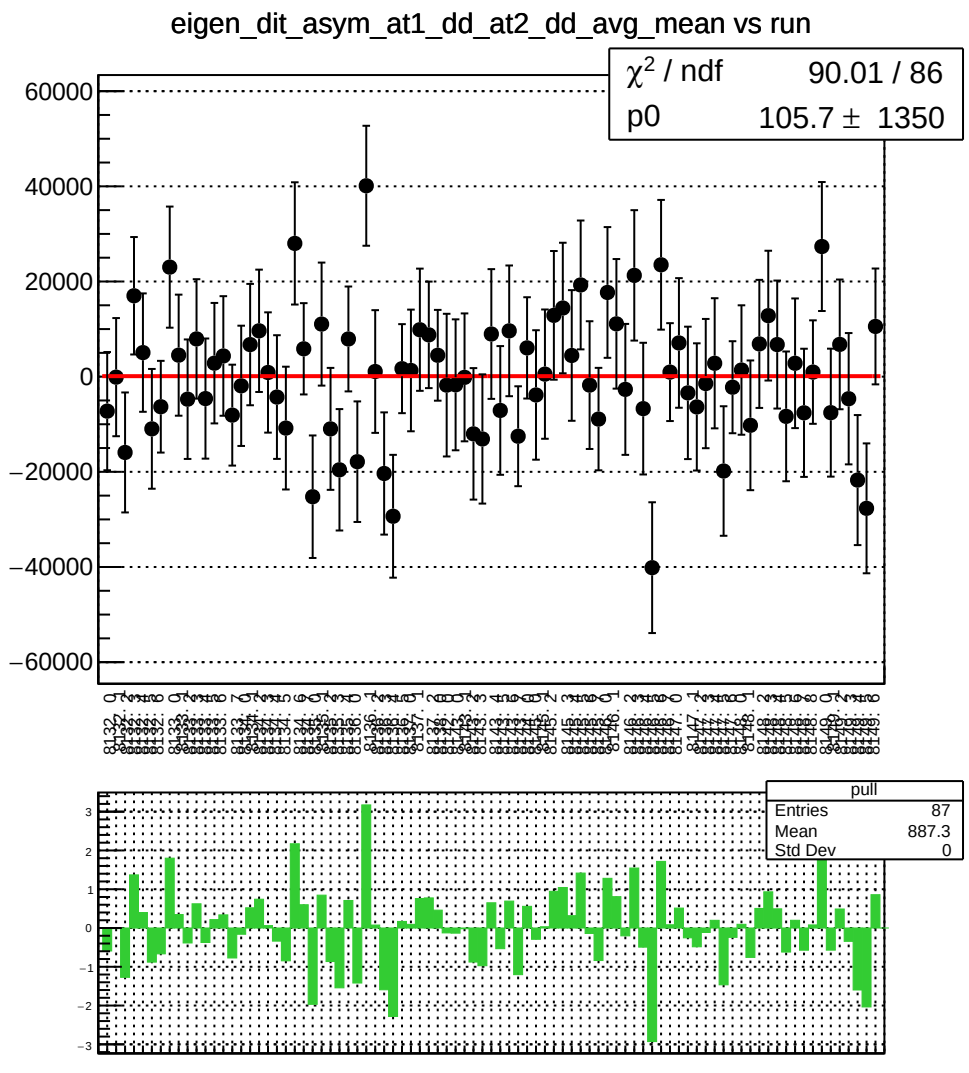

pull1D
Entries 87
Mean −0.0007675
Std Dev 1.017
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

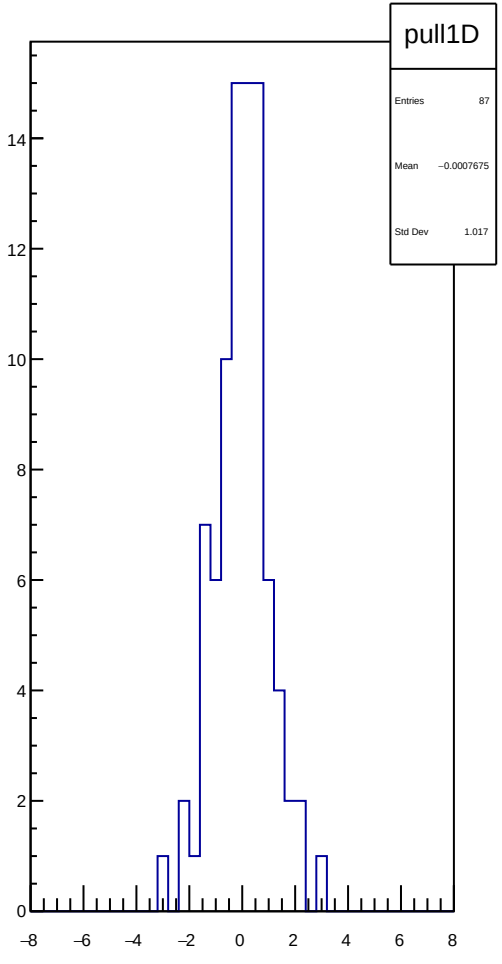

dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 2193 / 86
p0 1251 ± 0.9547
1340
1320
1300
1280
1260
1240
1220
1200
1180
1160

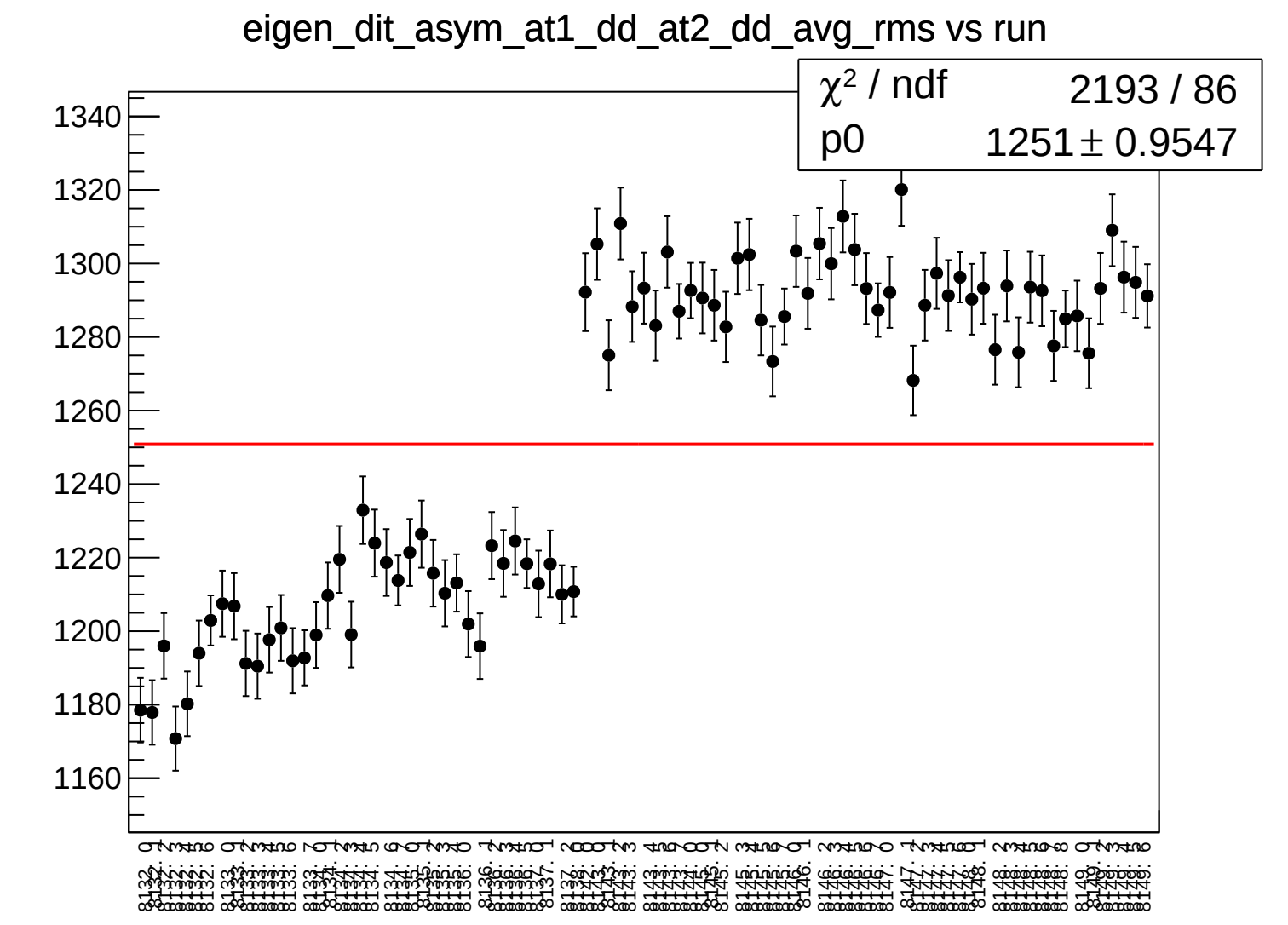

asym_at1_dd_at2_dd_avg_dit_correction_mean vs run
χ² / ndf 89.27 / 86
p0 1449 ± 1067
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean 409.9
Std Dev 0
2
1
0
−1
−2

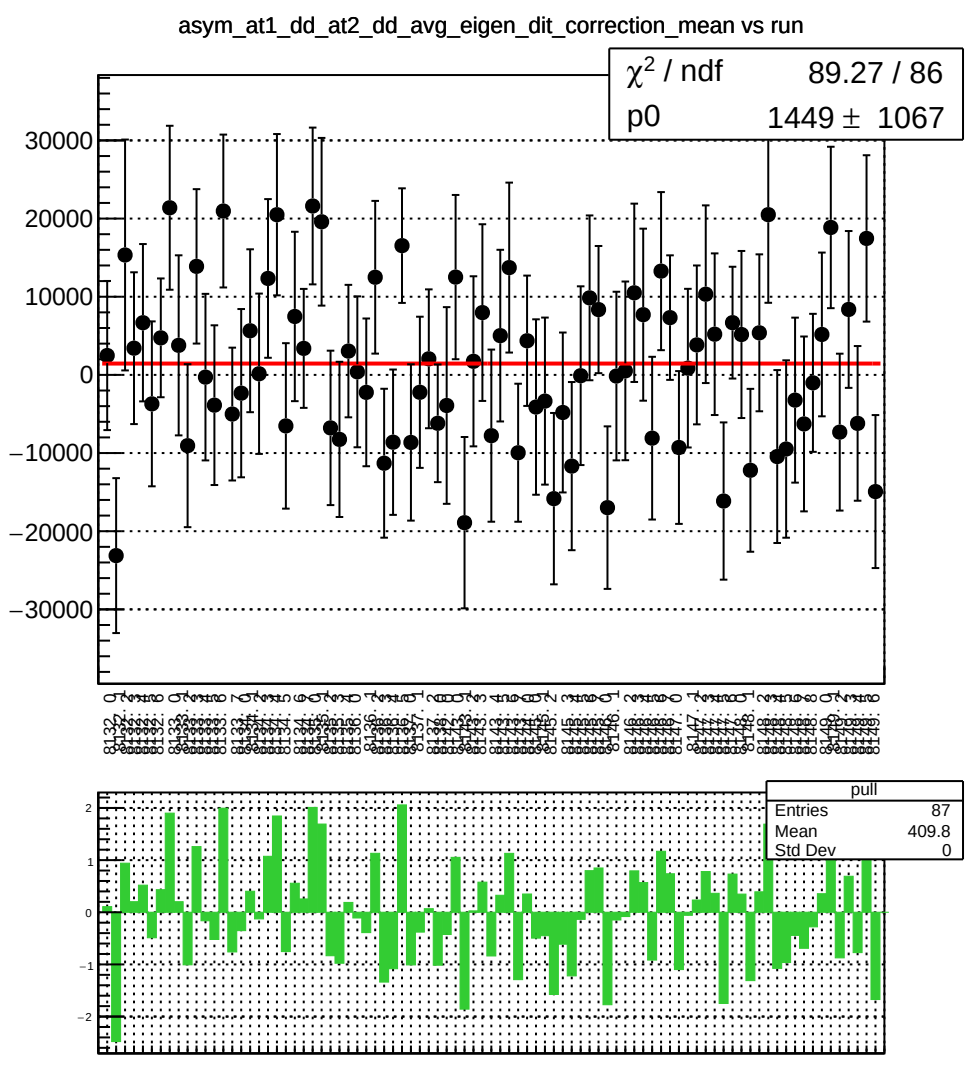

pull1D
Entries 87
Mean −0.006923
Std Dev 1.013
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

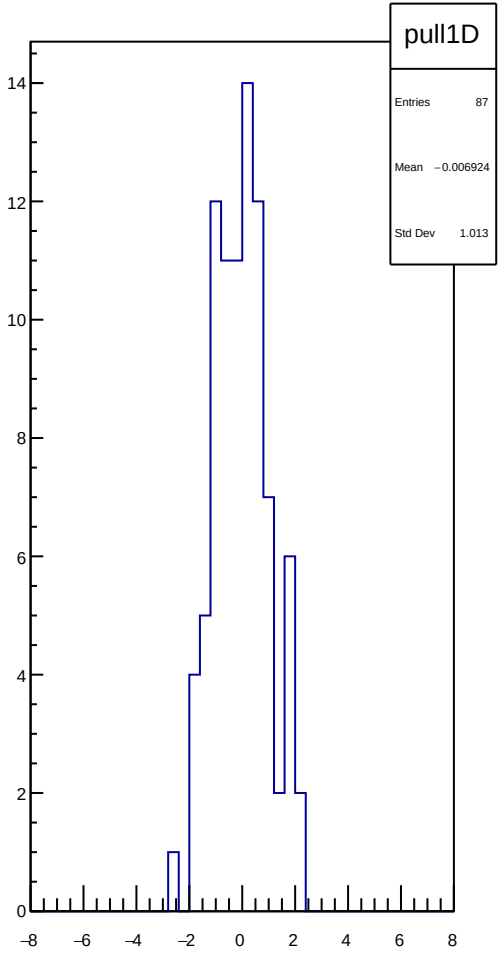

asym_at1_dd_at2_dd_avg_dit_correction_rms vs run
χ² / ndf 5941 / 86
p0 987.1 ± 0.7542
1400
1300
1200
1100
1000
900

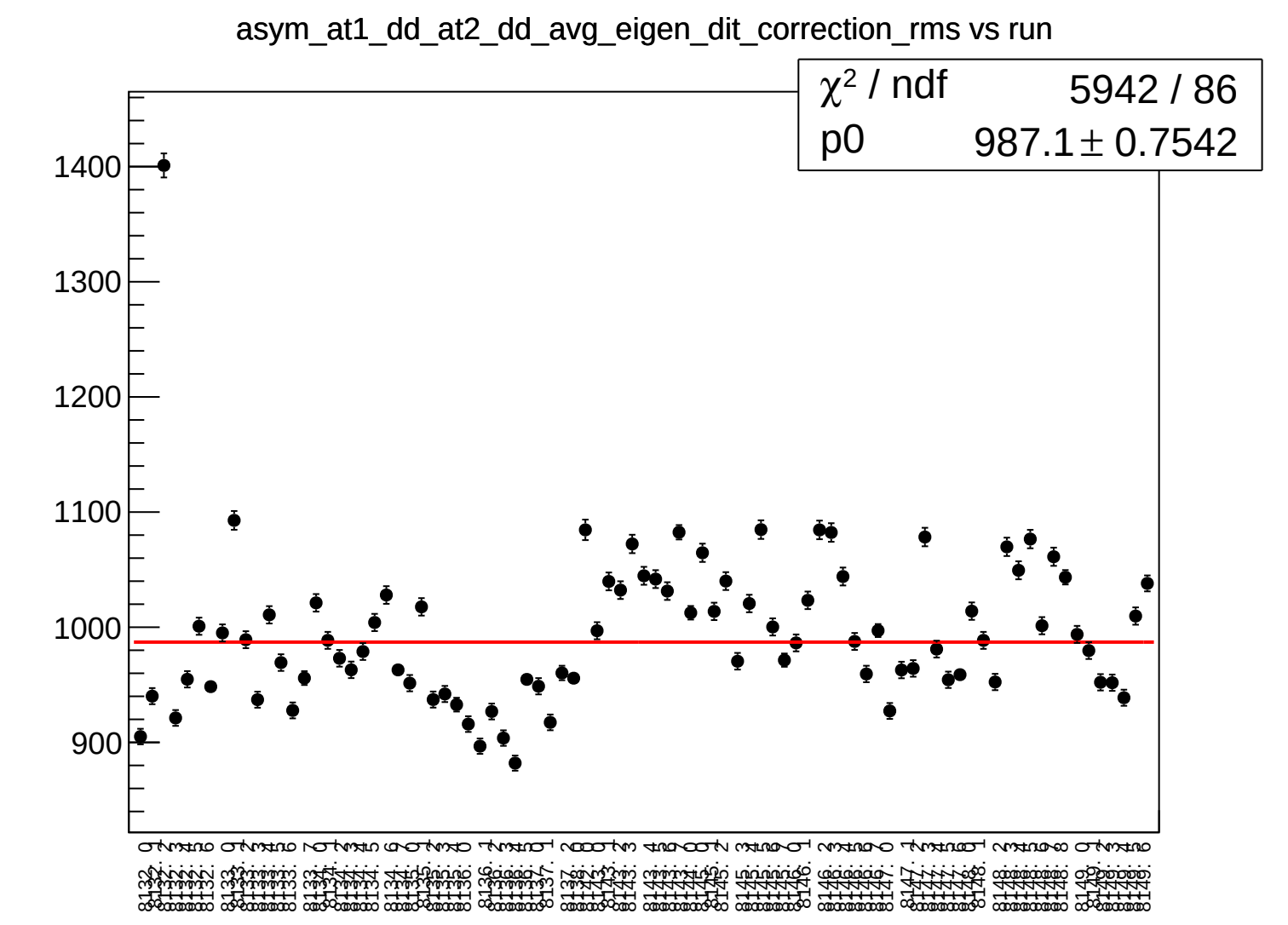

eigen_dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 90.01 / 86
p0 105.7 ± 1350
pull
Entries 87
Mean 887.3
Std Dev 0

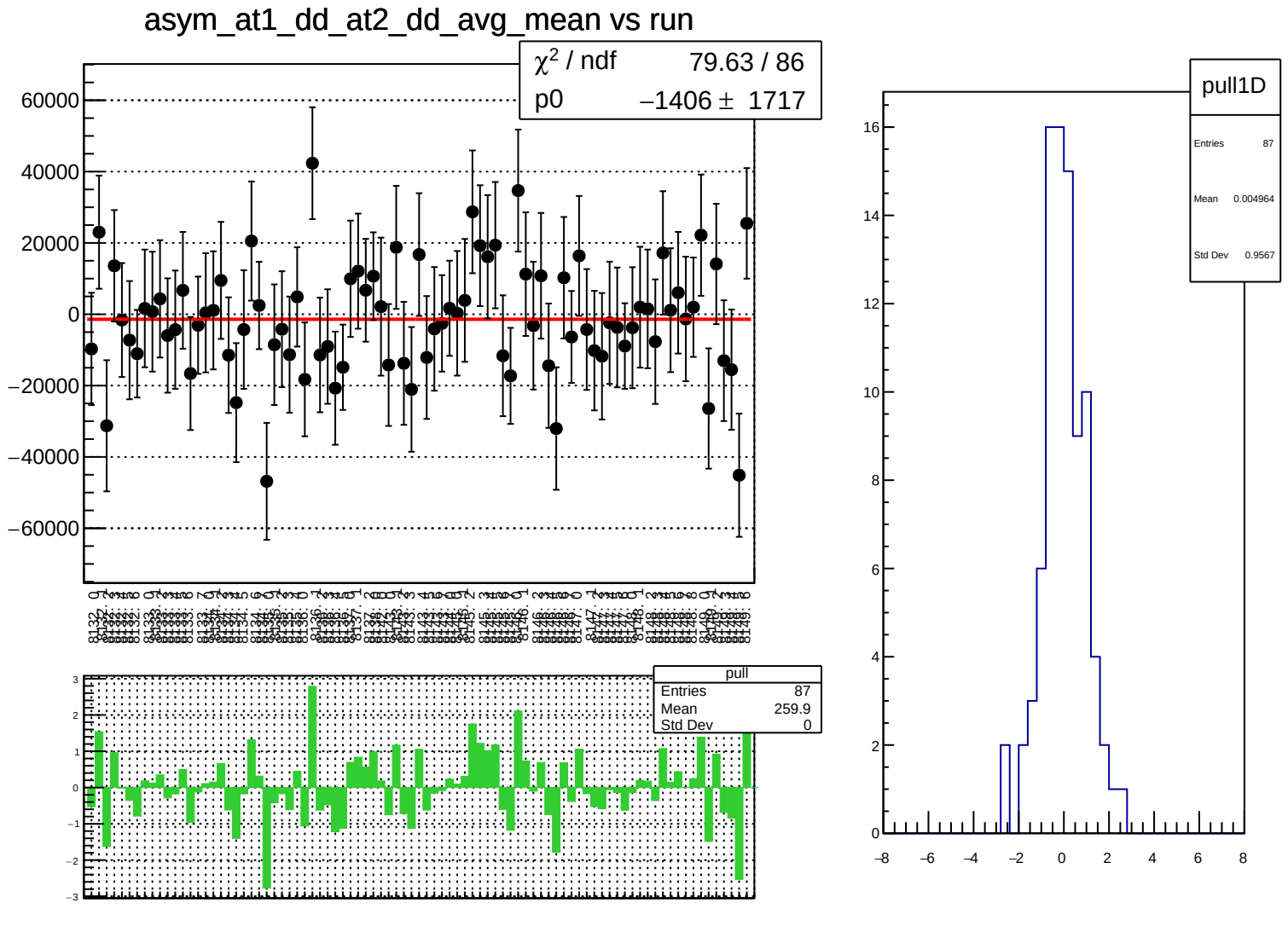

pull1D
Entries 87
Mean −0.0007675
Std Dev 1.017

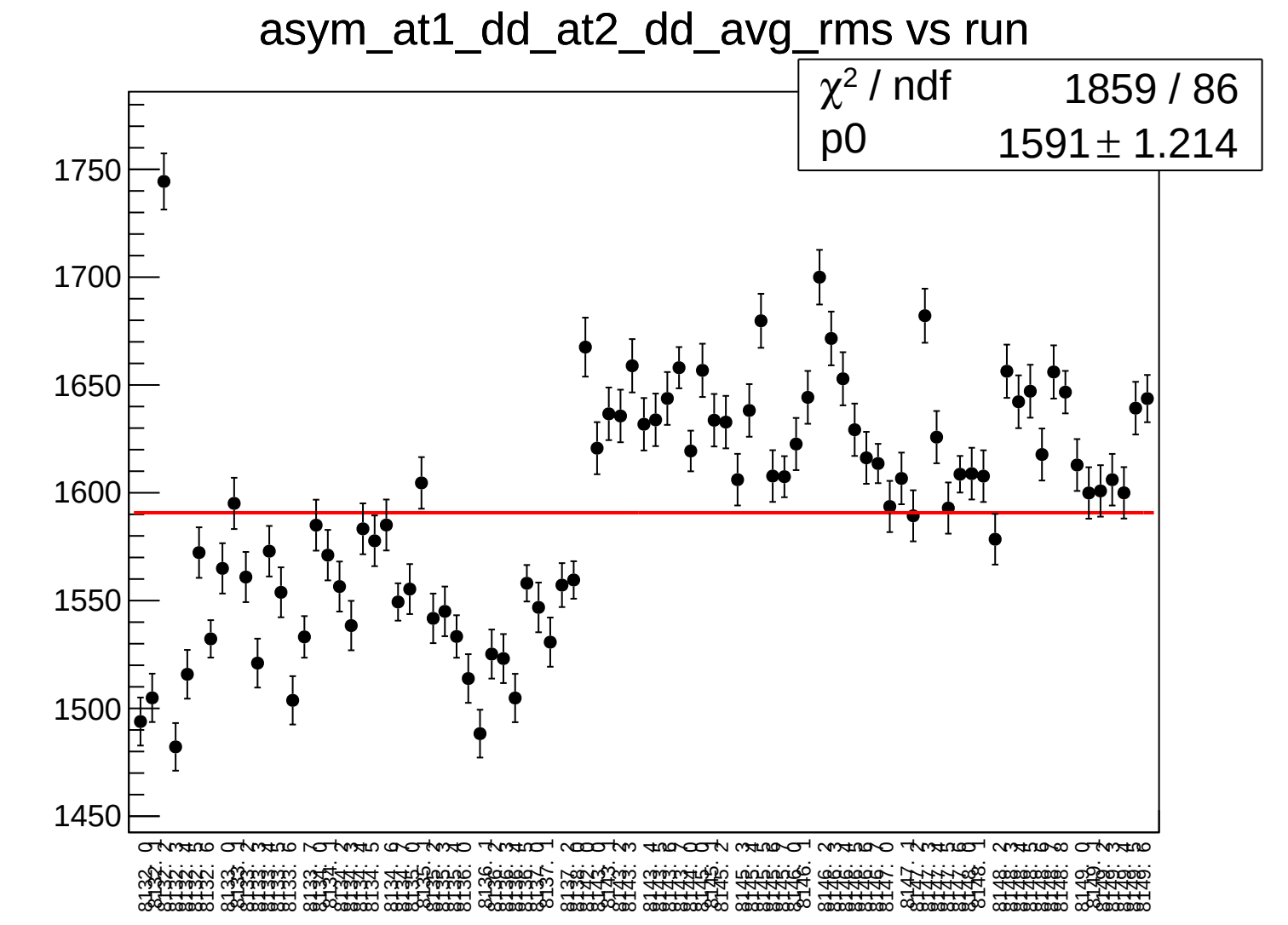

eigen_dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 2193 / 86
p0 1251 ± 0.9547
1340
1320
1300
1280
1260
1240
1220
1200
1180
1160

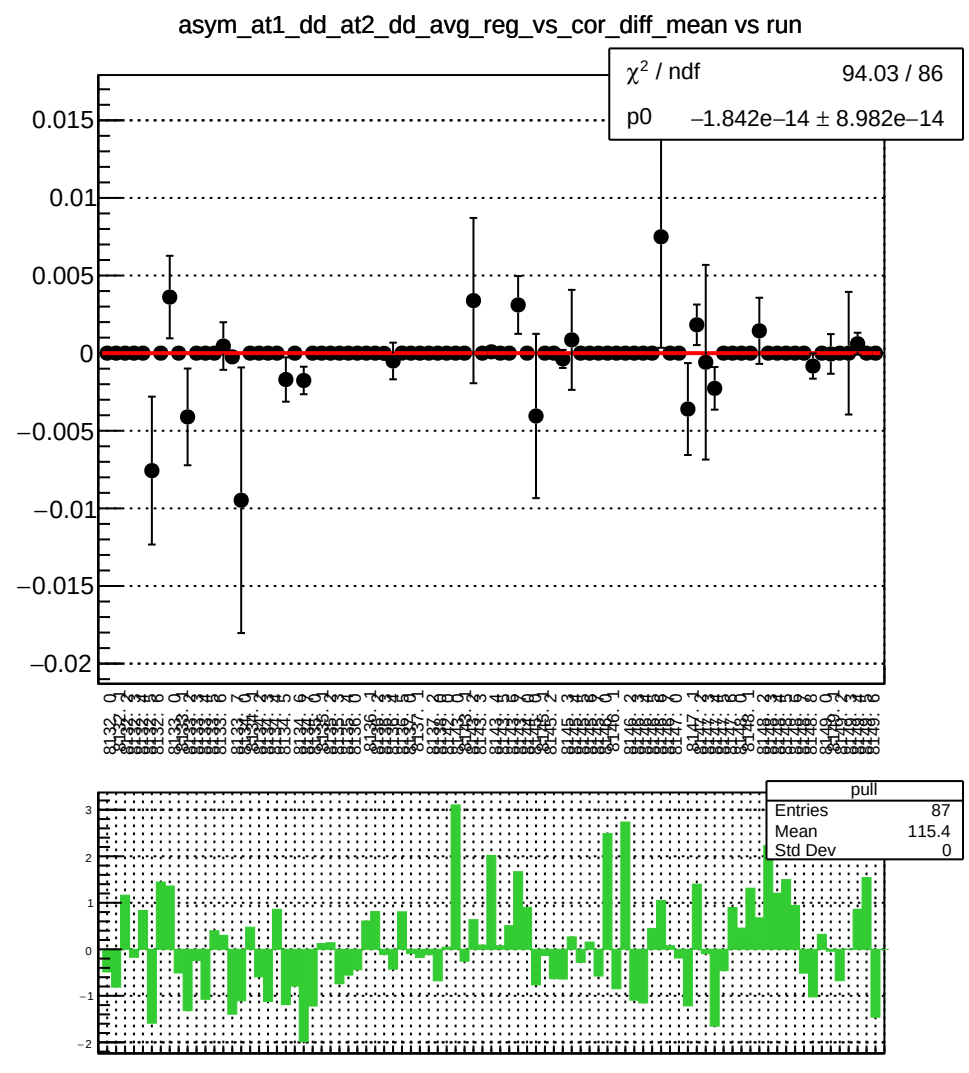

asym_at1_dd_at2_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 89.27 / 86
p0 1449 ± 1067
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean 409.8
Std Dev 0
2
1
0
−1
−2

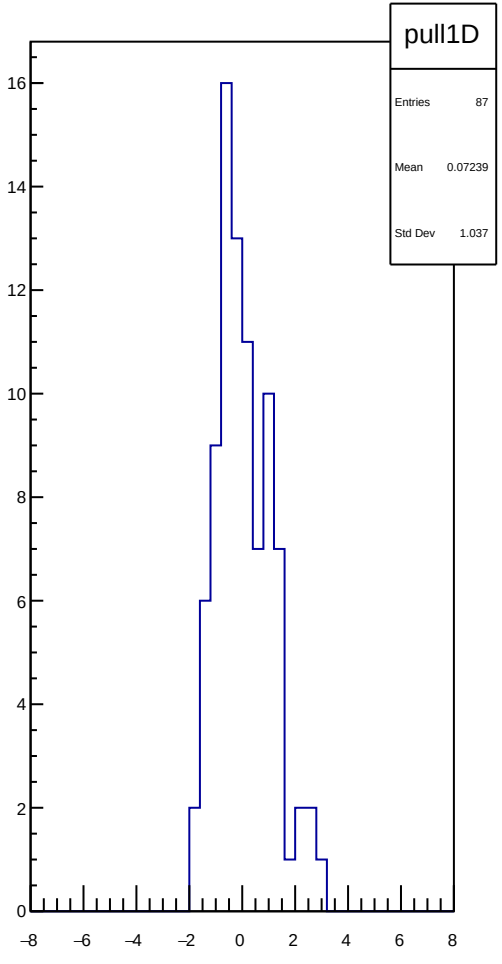

pull1D
Entries 87
Mean −0.006924
Std Dev 1.013
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

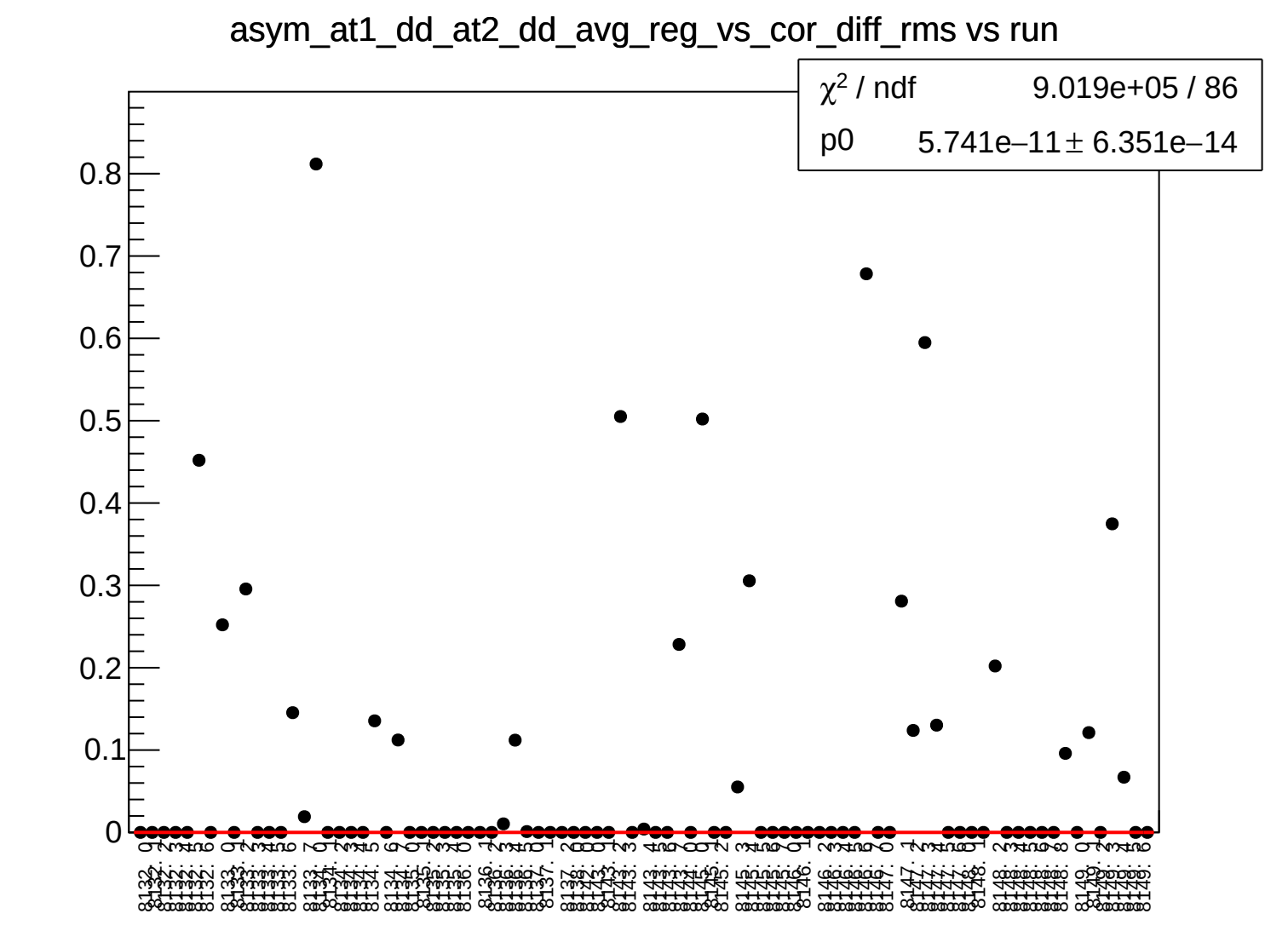

asym_at1_dd_at2_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 5942 / 86
p0 987.1 ± 0.7542
1400
1300
1200
1100
1000
900

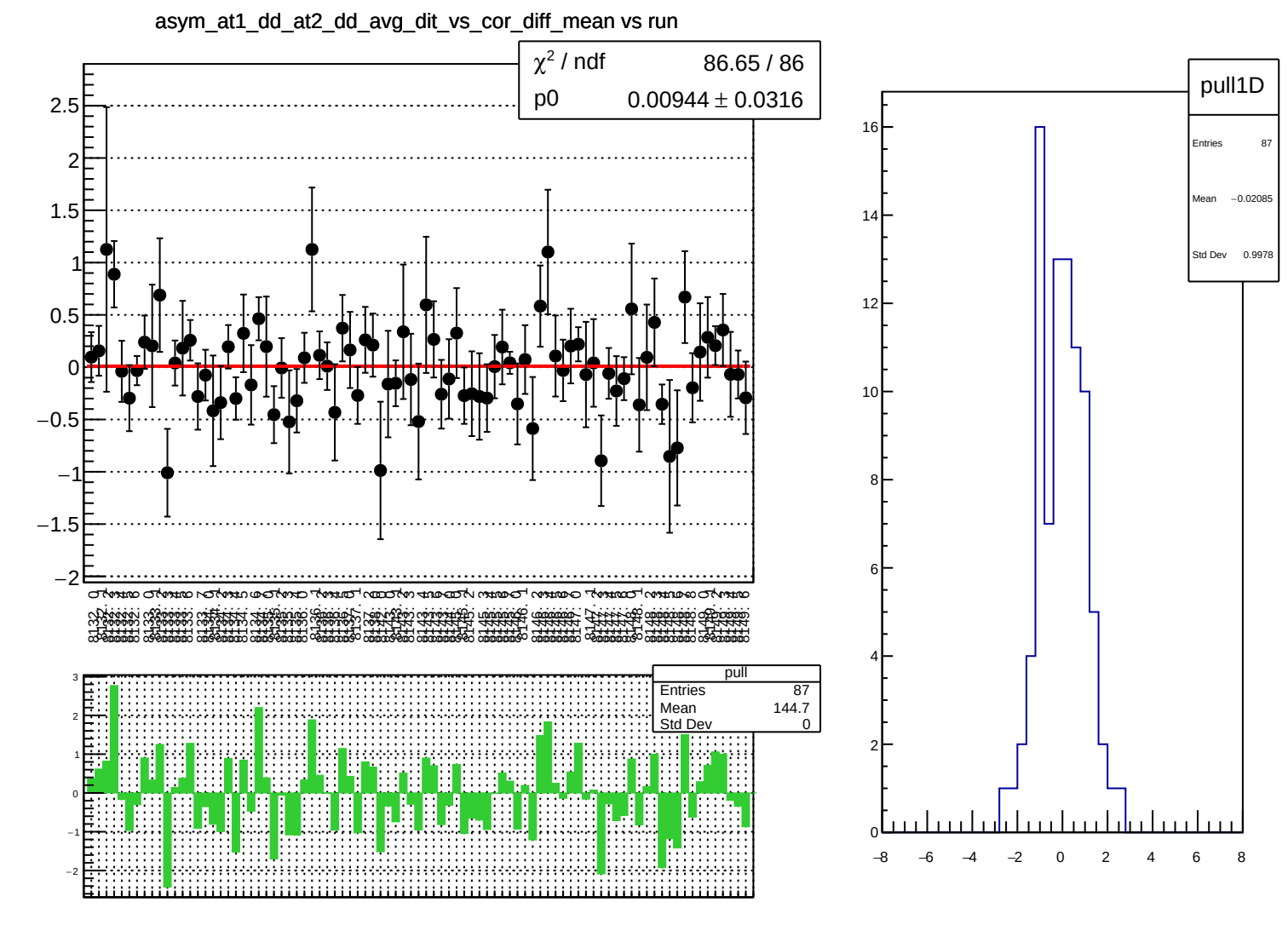

asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 79.63 / 86
p0 −1406 ± 1717
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 259.9
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean 0.004964
Std Dev 0.9567
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

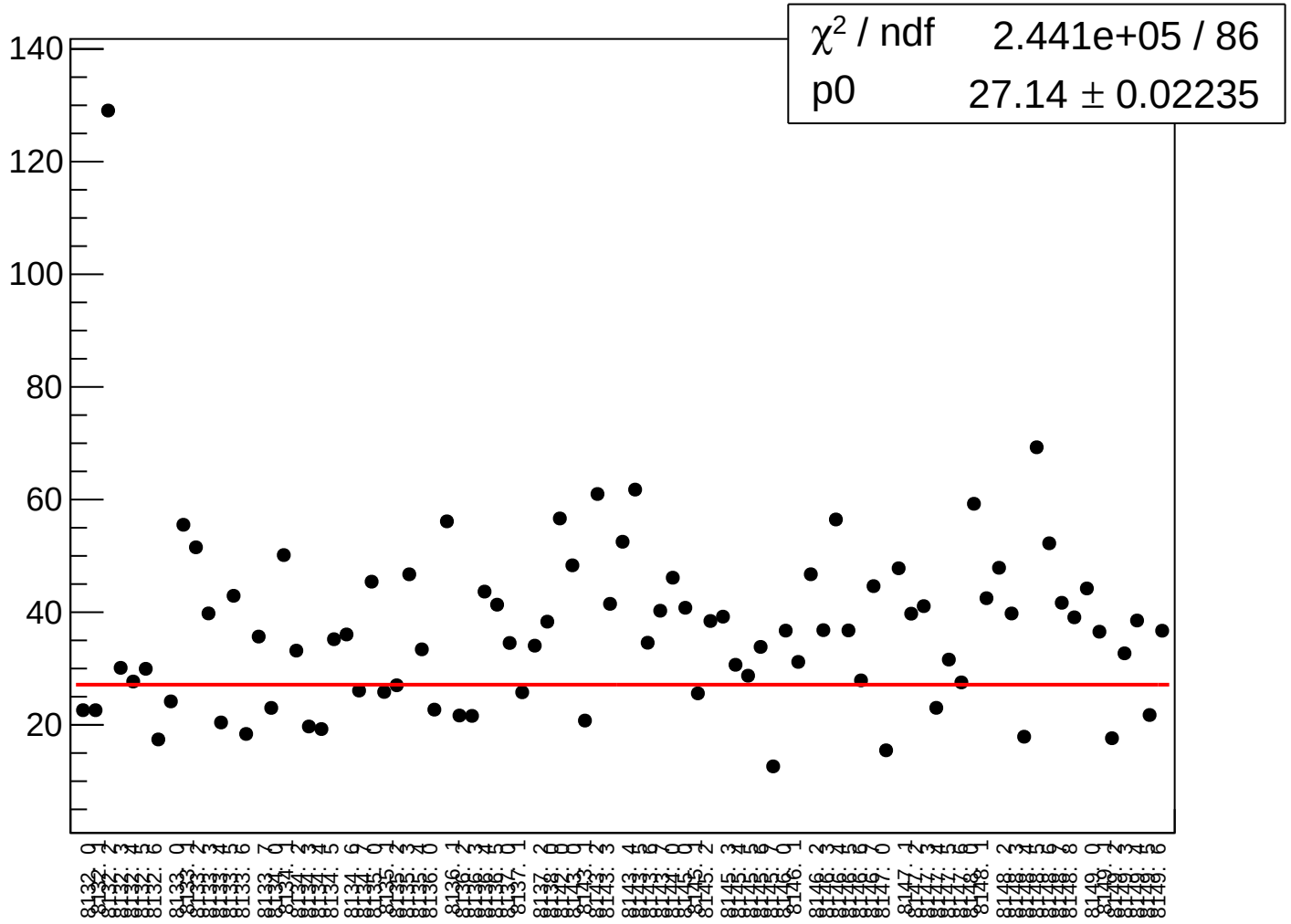

asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 1859 / 86
p0 1591 ± 1.214
1750
1700
1650
1600
1550
1500
1450

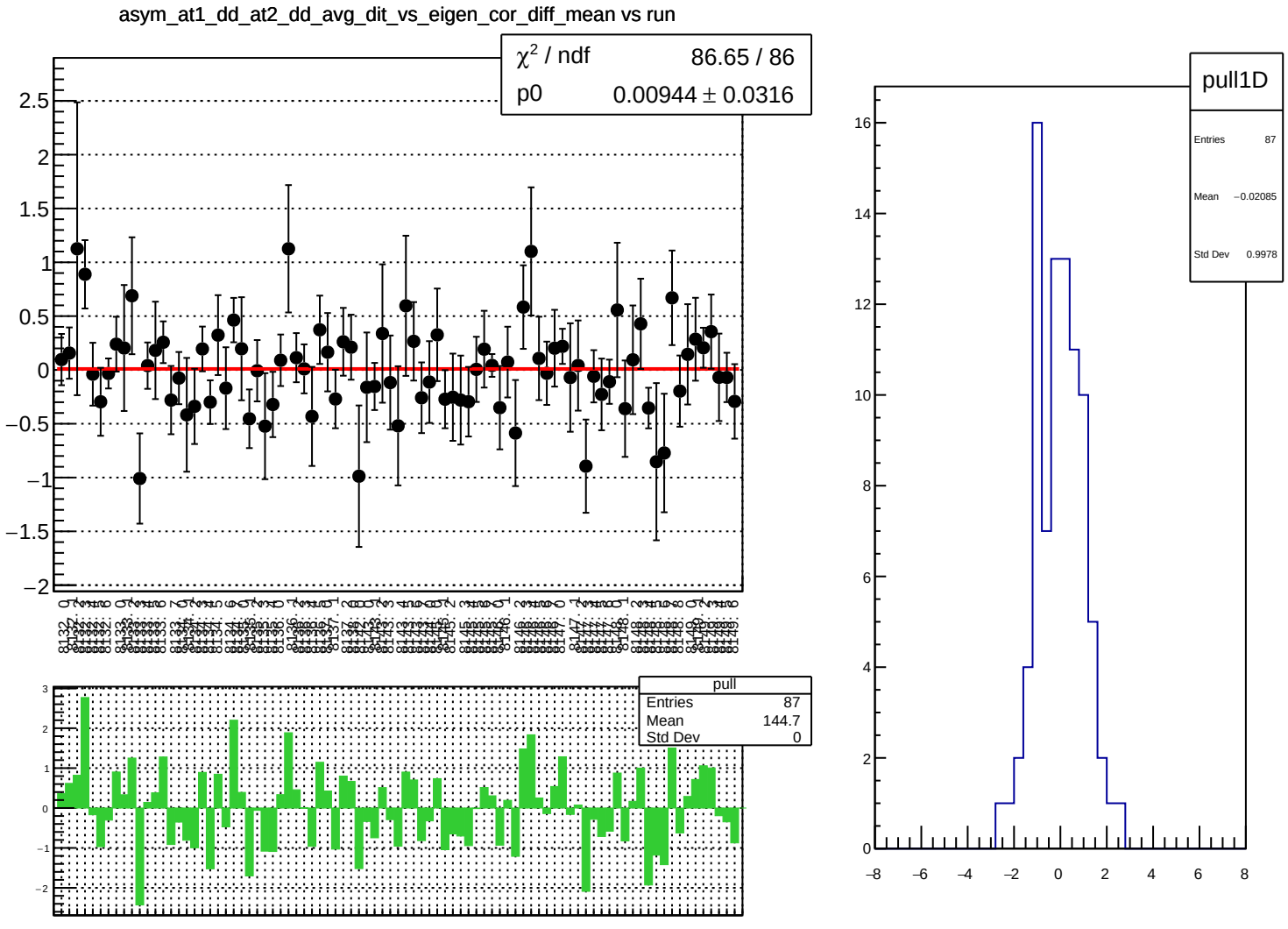

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 94.03 / 86
p0 −1.842e−14 ± 8.982e−14
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 87
Mean 115.4
Std Dev 0
3
2
1
0
−1
−2

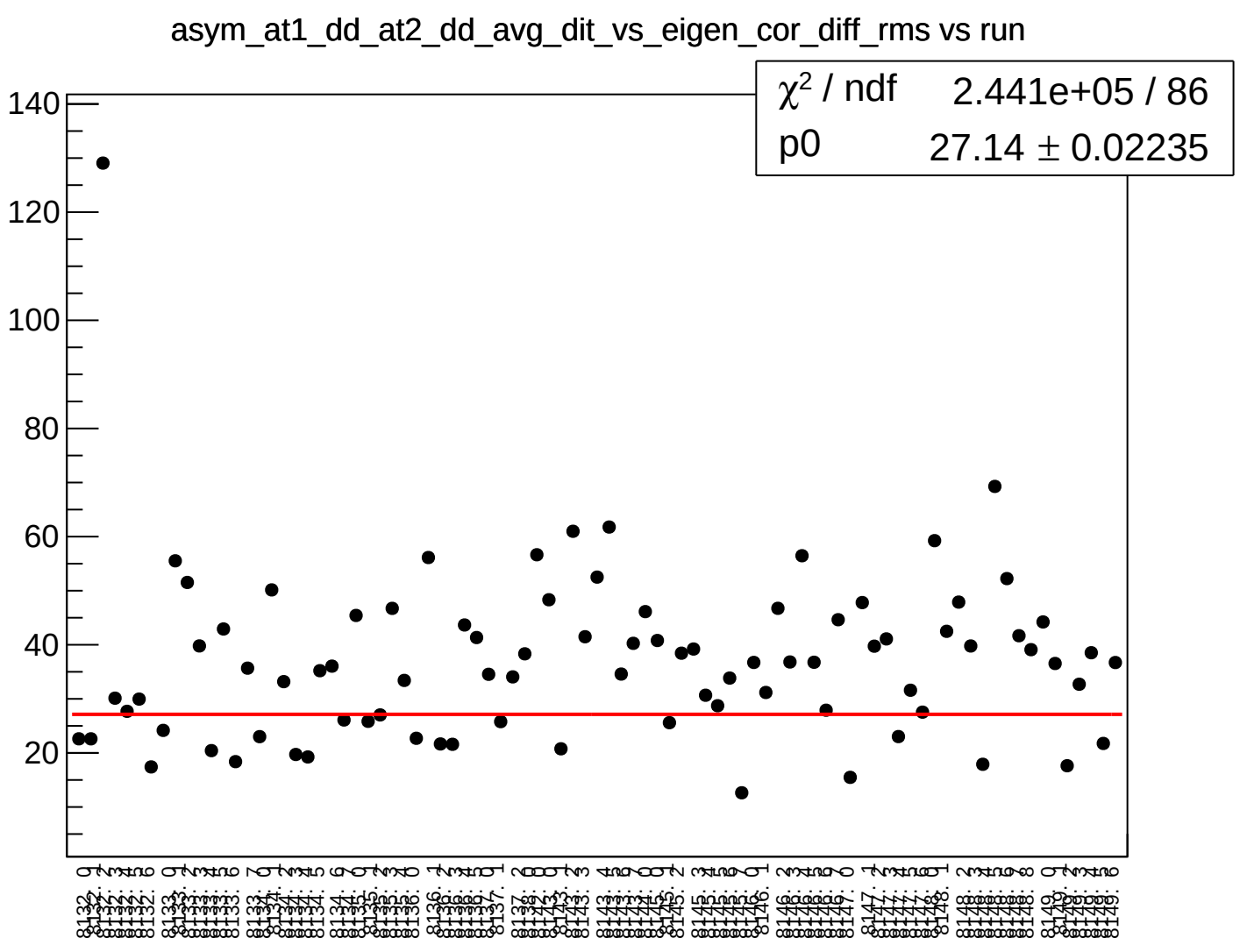

pull1D
Entries 87
Mean 0.07239
Std Dev 1.037
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

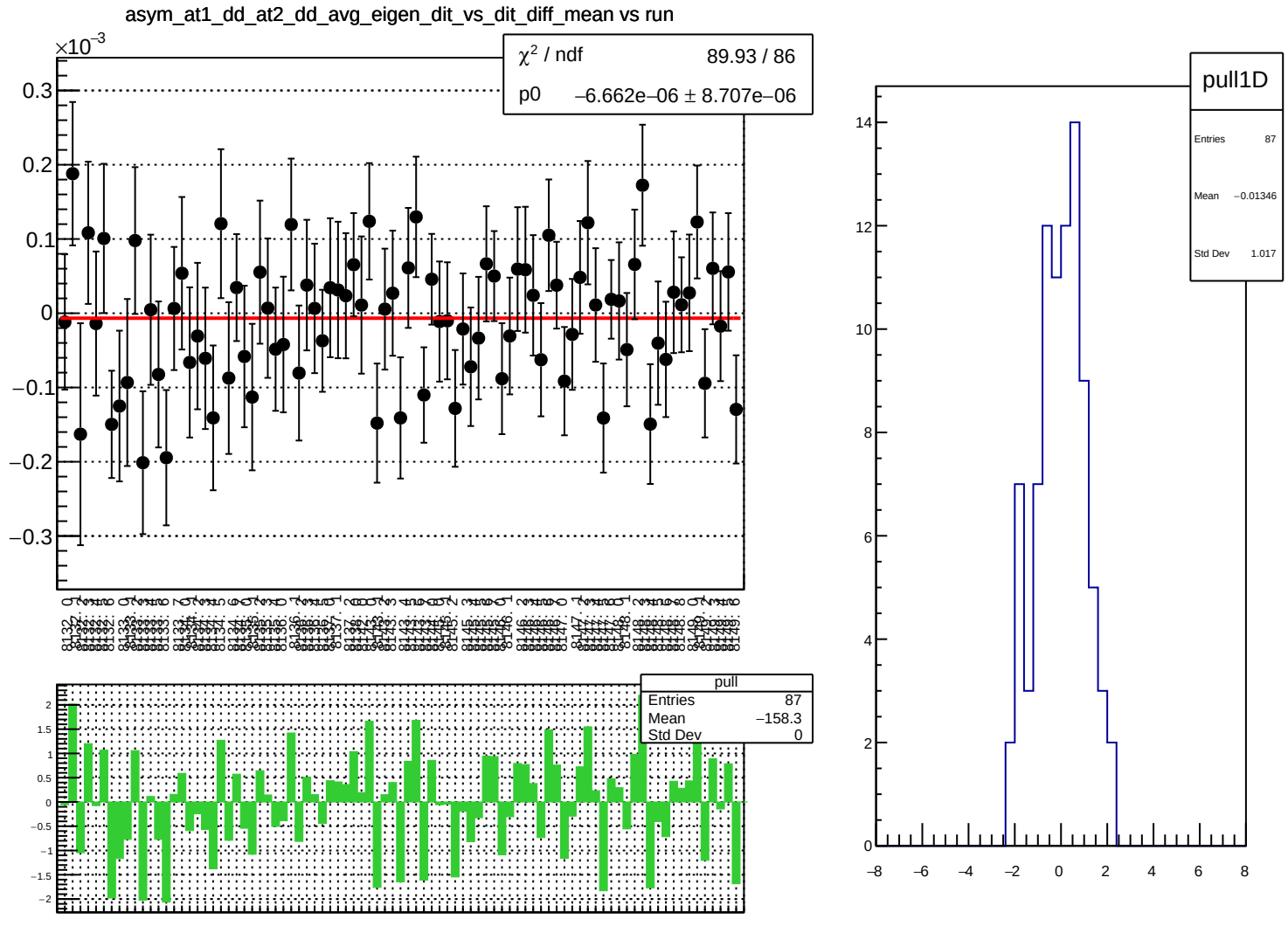

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.019e+05 / 86
p0 5.741e−11 ± 6.351e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

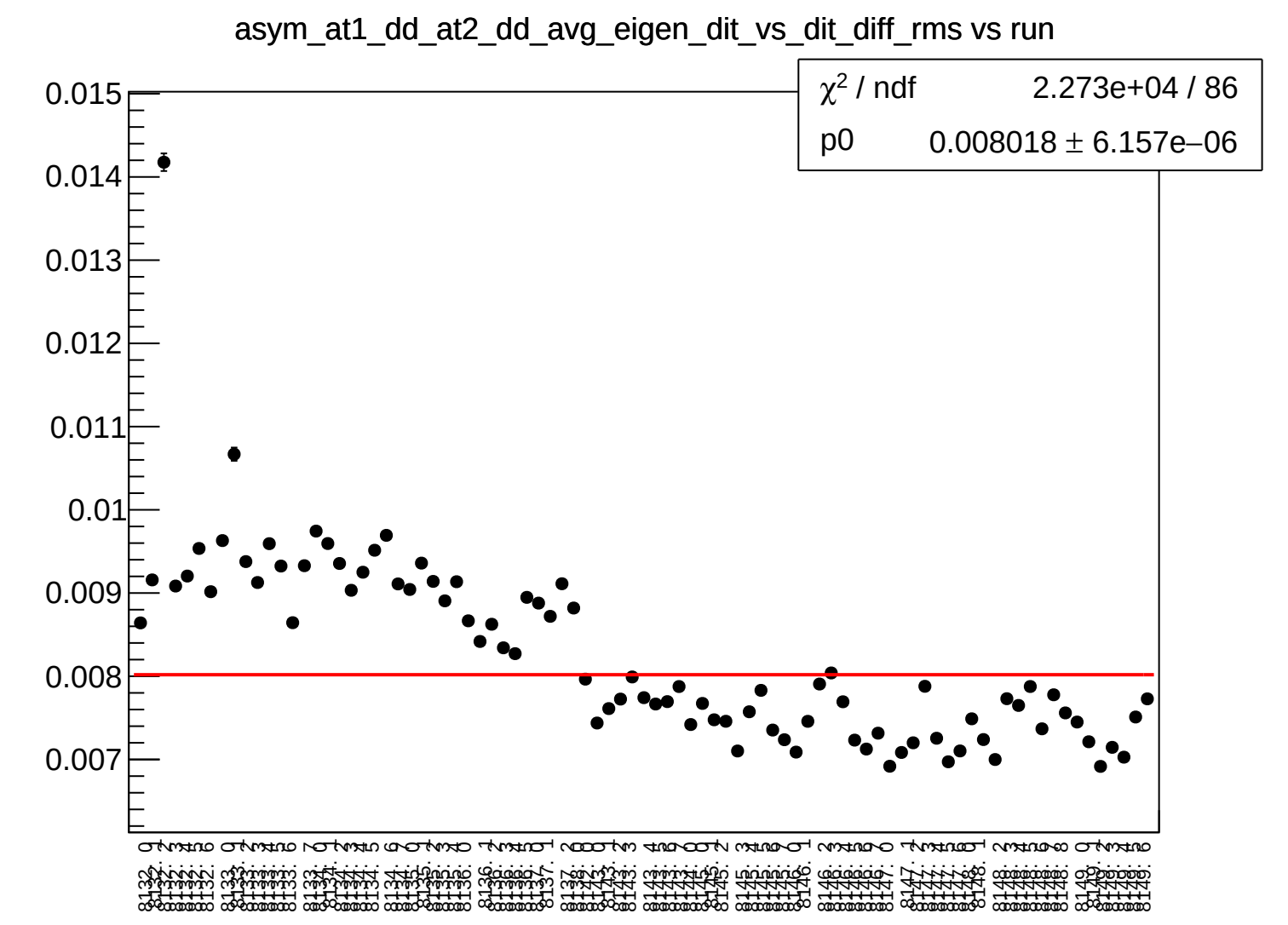

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 86.65 / 86
p0 0.00944 ± 0.0316
pull
Entries 87
Mean 144.7
Std Dev 0
pull1D
Entries 87
Mean −0.02085
Std Dev 0.9978

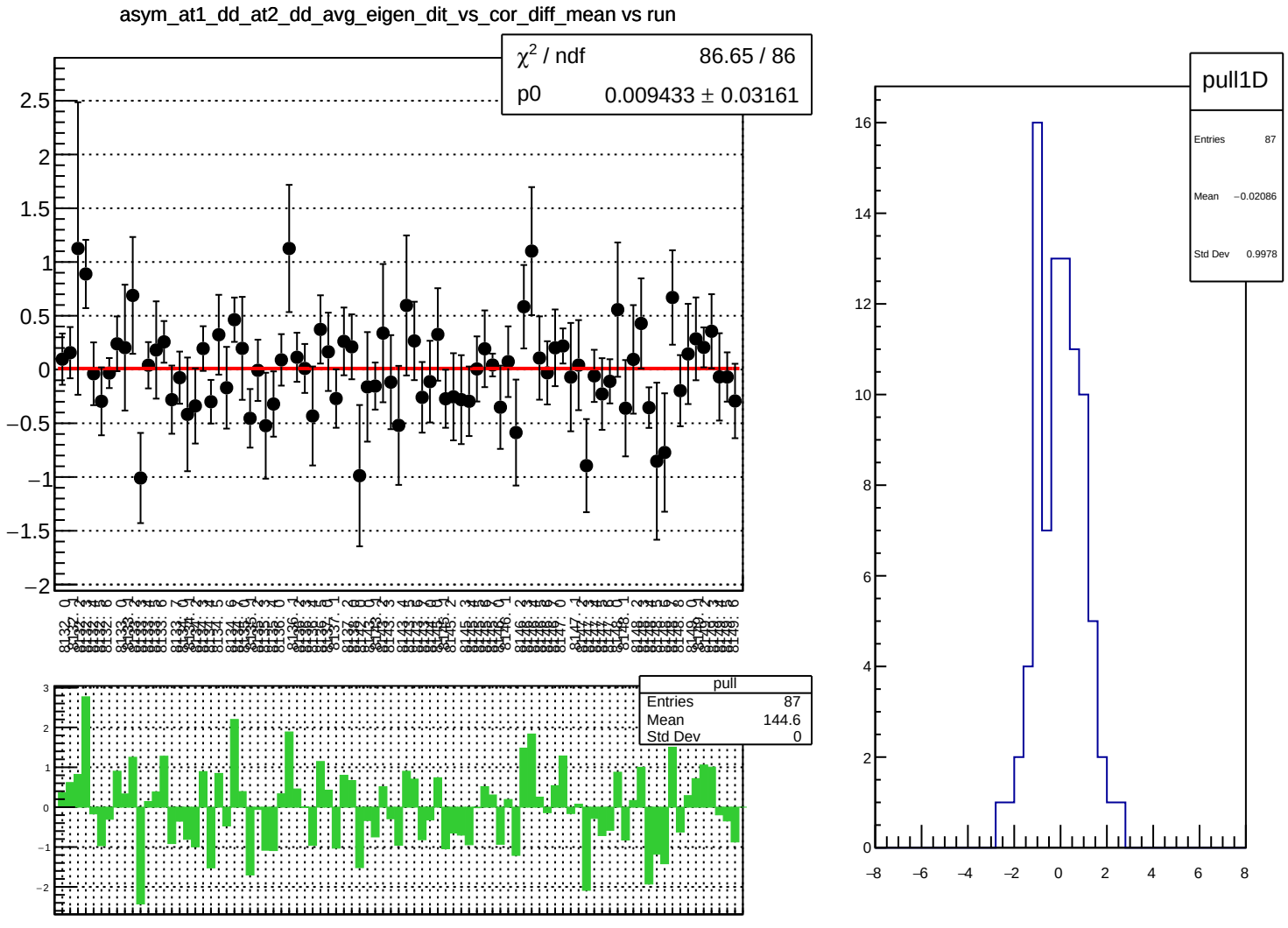

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.441e+05 / 86
p0 27.14 ± 0.02235
140
120
100
80
60
40
20

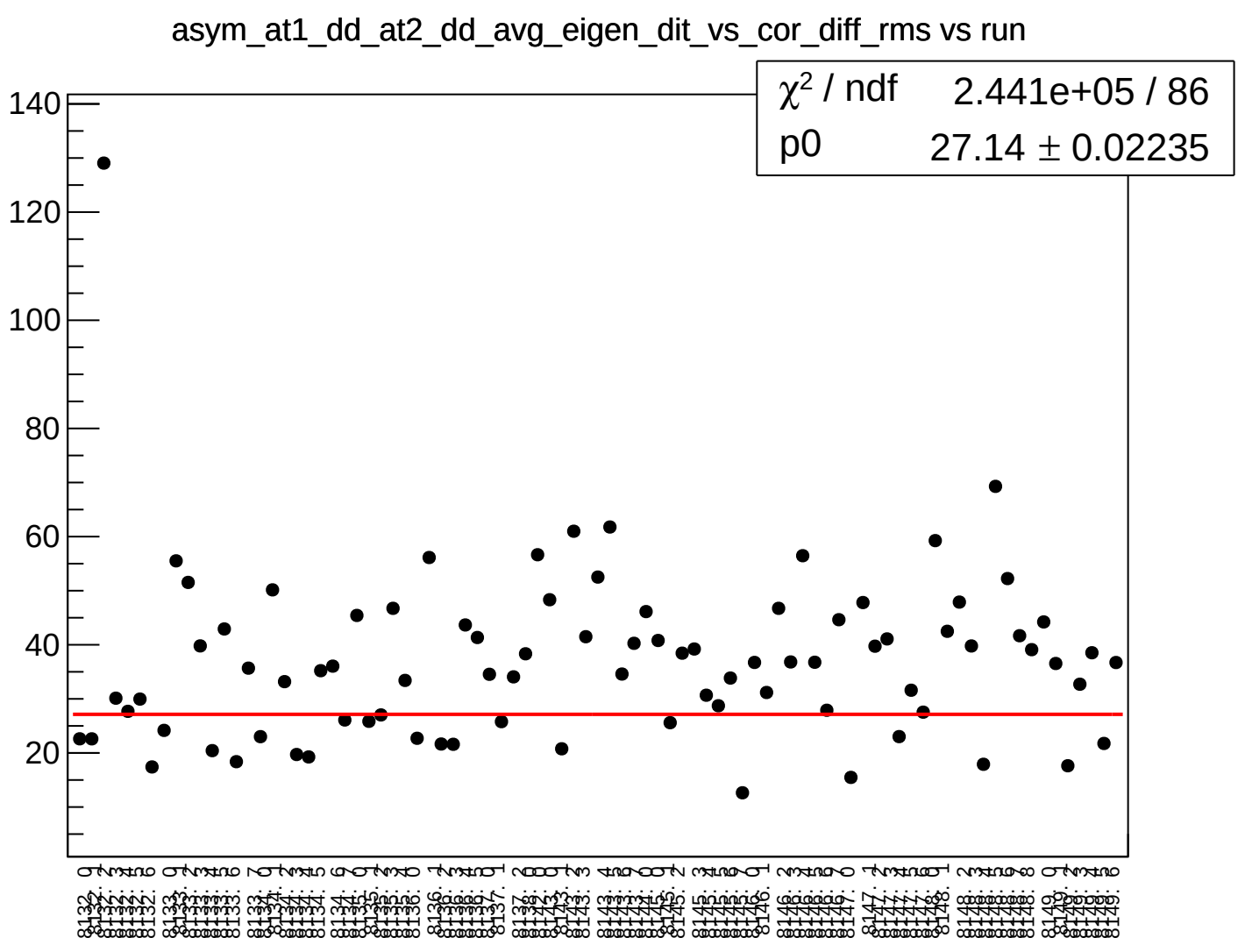

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.65 / 86
p0 0.00944 ± 0.0316
pull
Entries 87
Mean 144.7
Std Dev 0
pull1D
Entries 87
Mean −0.02085
Std Dev 0.9978

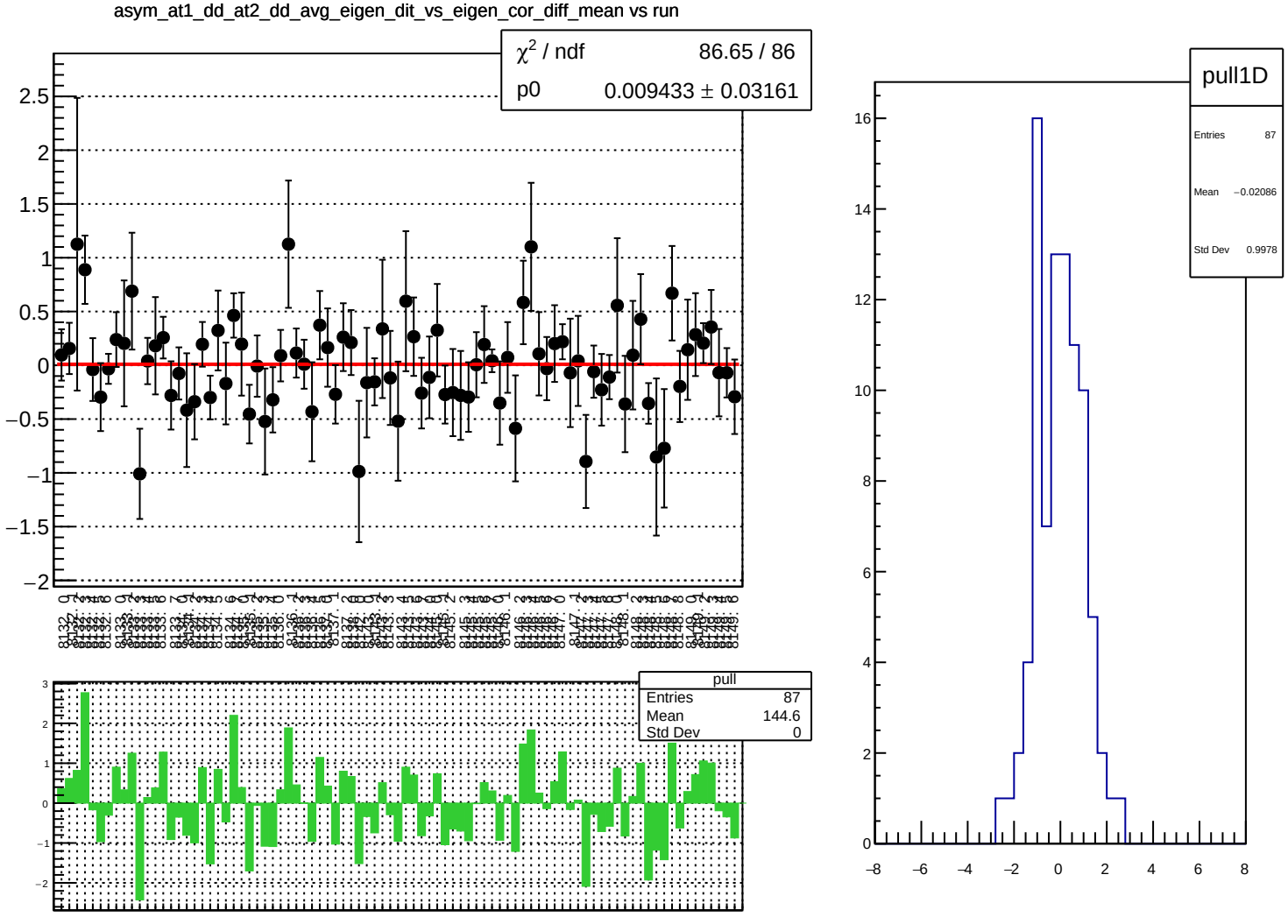

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.441e+05 / 86
p0 27.14 ± 0.02235
140
120
100
80
60
40
20

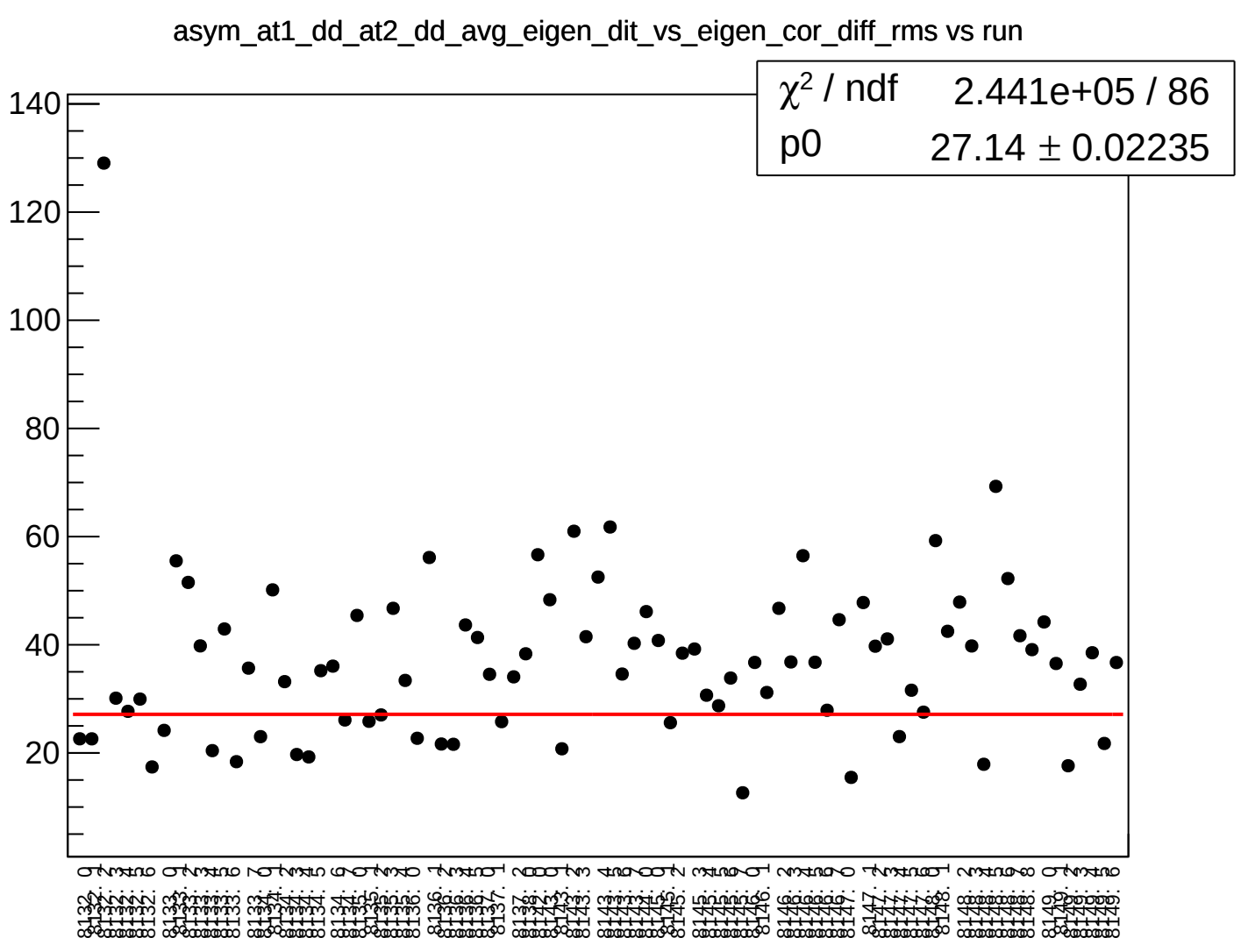

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.93 / 86
p0 −6.662e−06 ± 8.707e−06
pull
Entries 87
Mean −158.3
Std Dev 0
pull1D
Entries 87
Mean −0.01346
Std Dev 1.017

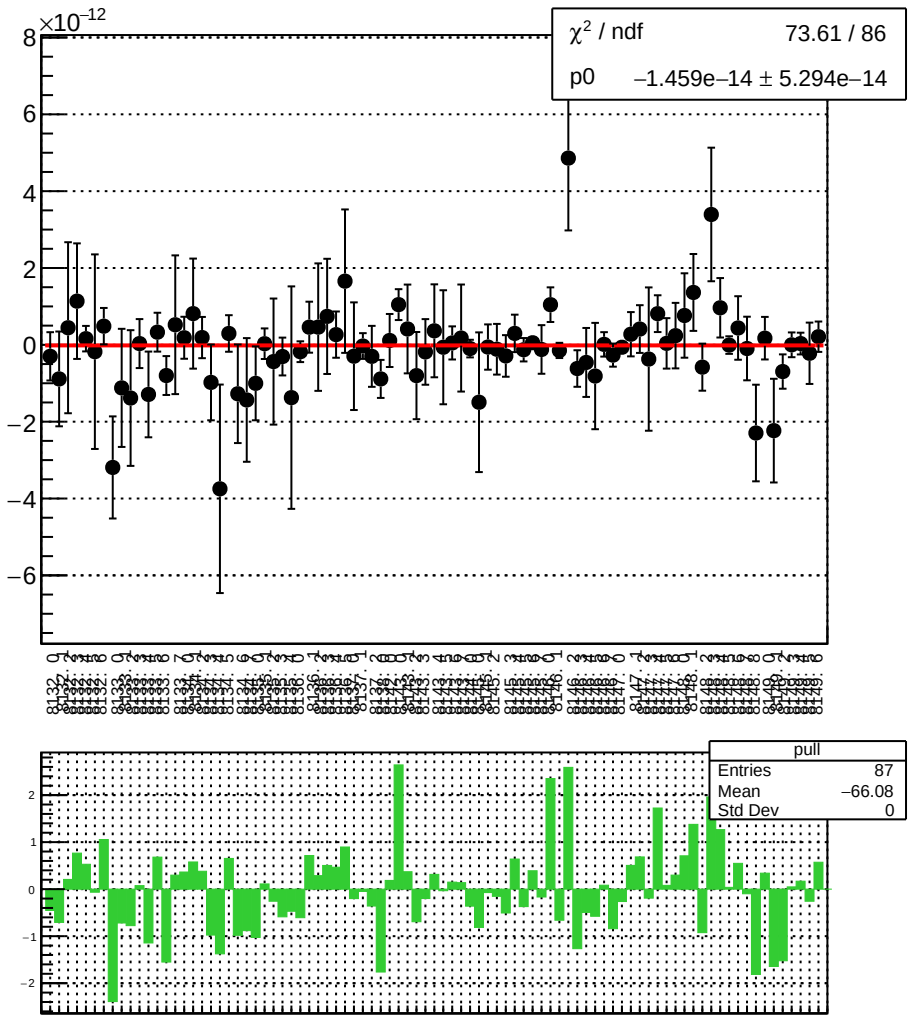

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.273e+04 / 86
p0 0.008018 ± 6.157e−06
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007

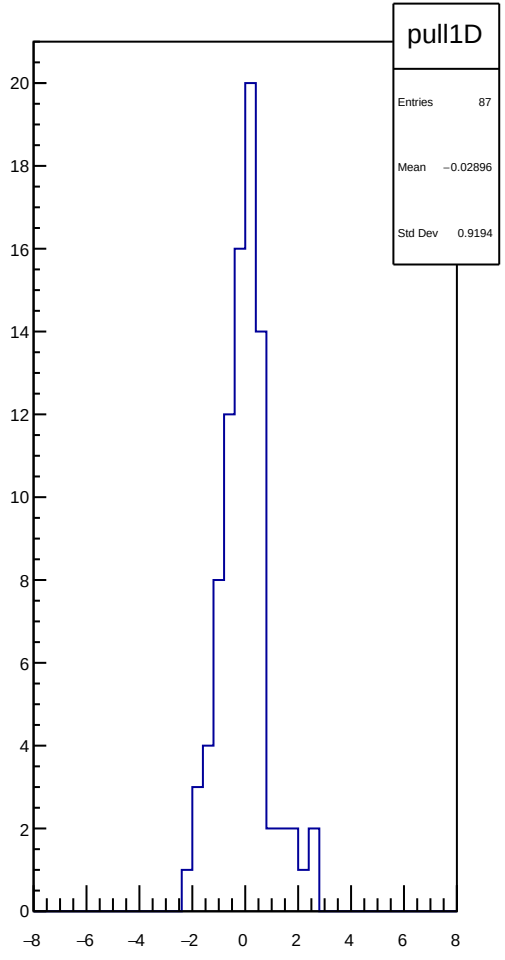

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.65 / 86
p0 0.009433 ± 0.03161
pull
Entries 87
Mean 144.6
Std Dev 0
pull1D
Entries 87
Mean −0.02086
Std Dev 0.9978

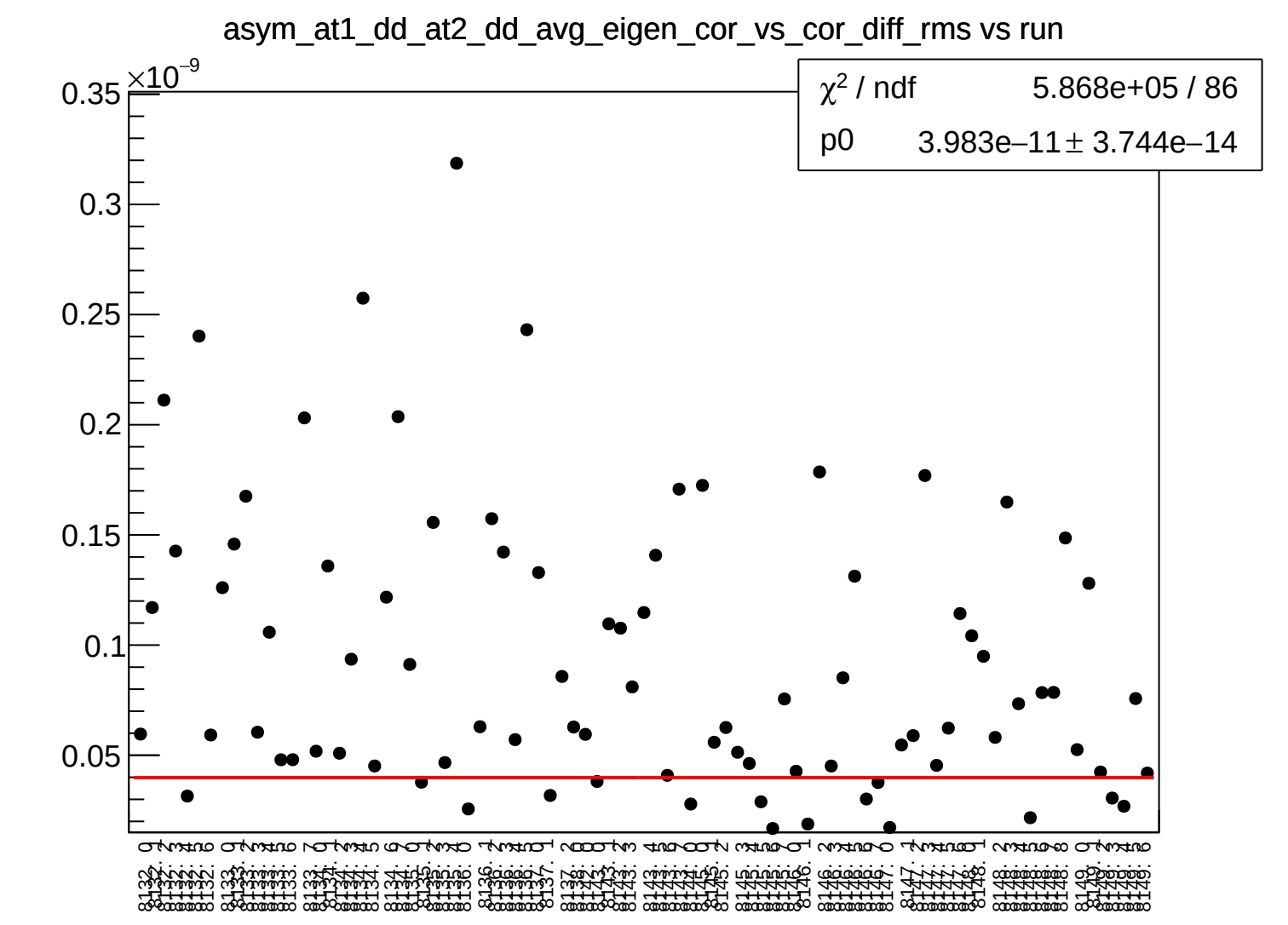

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.441e+05 / 86
p0 27.14 ± 0.02235
140
120
100
80
60
40
20

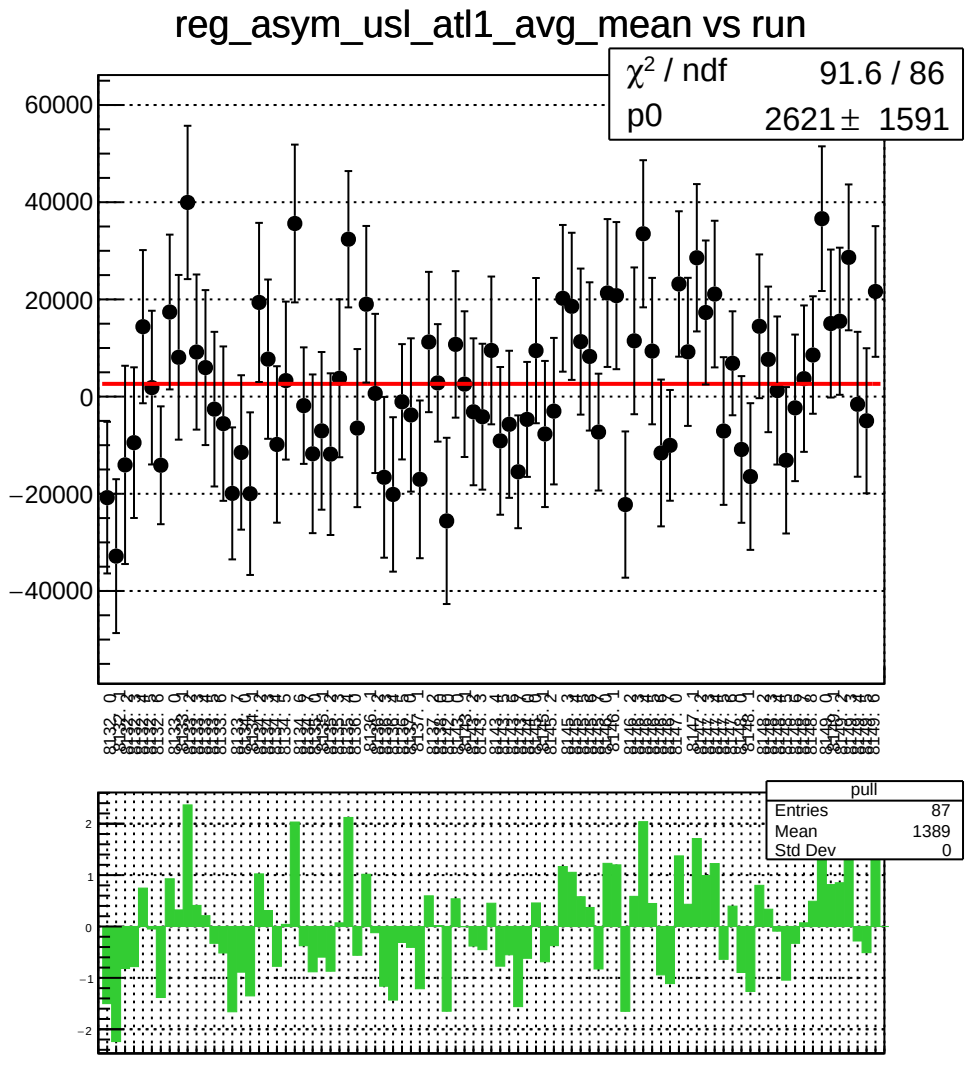

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.65 / 86
p0 0.009433 ± 0.03161
pull
Entries 87
Mean 144.6
Std Dev 0
pull1D
Entries 87
Mean −0.02086
Std Dev 0.9978

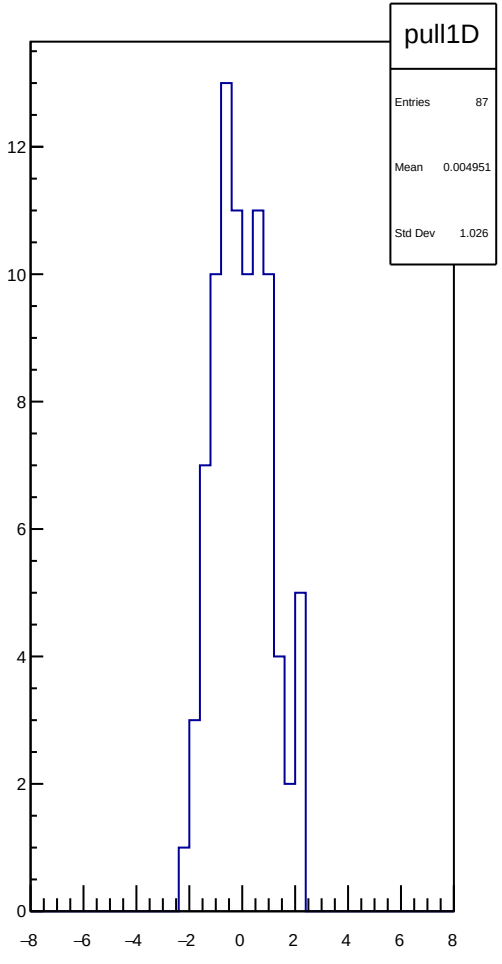

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.441e+05 / 86
p0 27.14 ± 0.02235
140
120
100
80
60
40
20

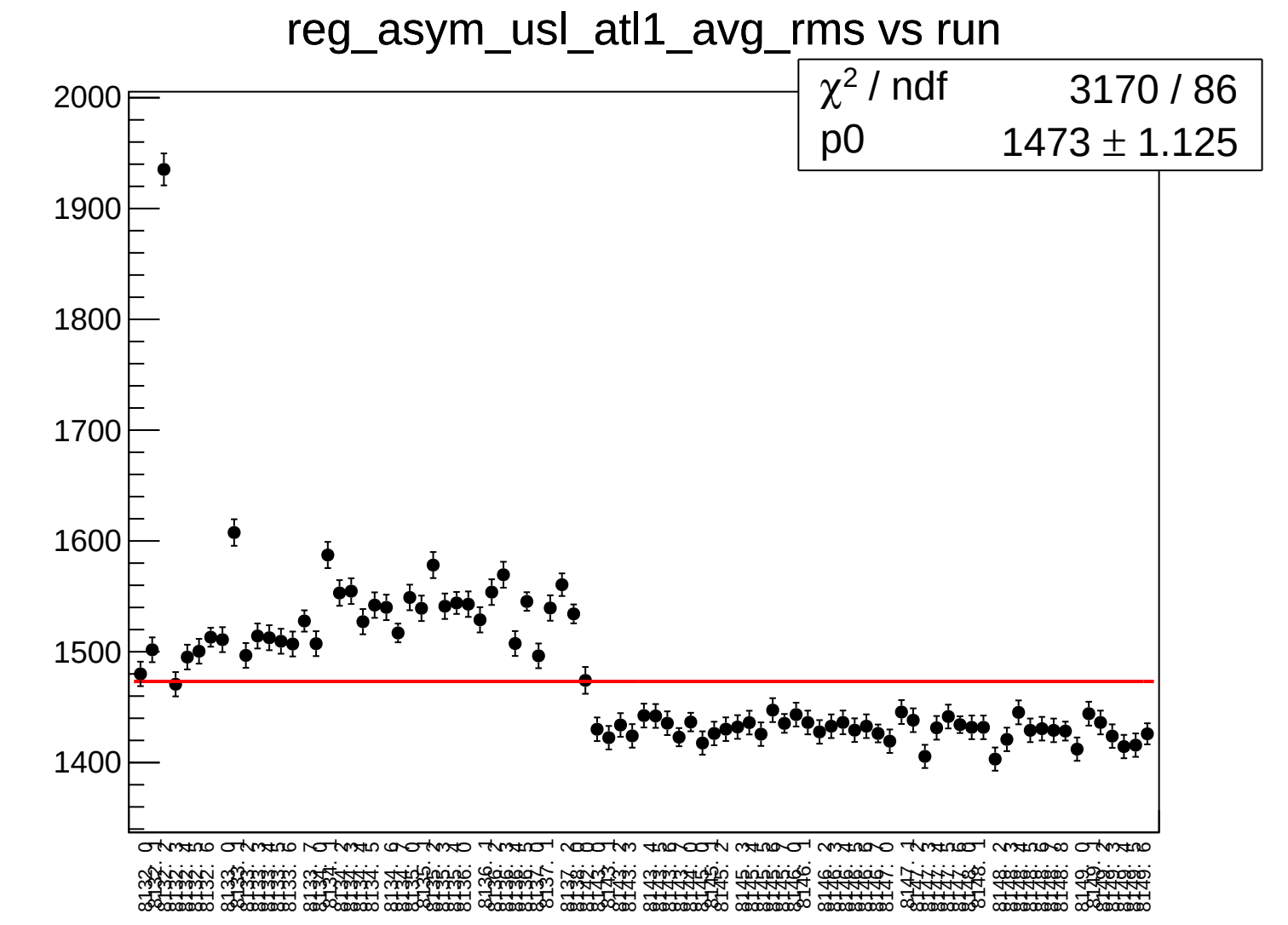

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 73.61 / 86
p0 −1.459e−14 ± 5.294e−14
pull
Entries 87
Mean −66.08
Std Dev 0

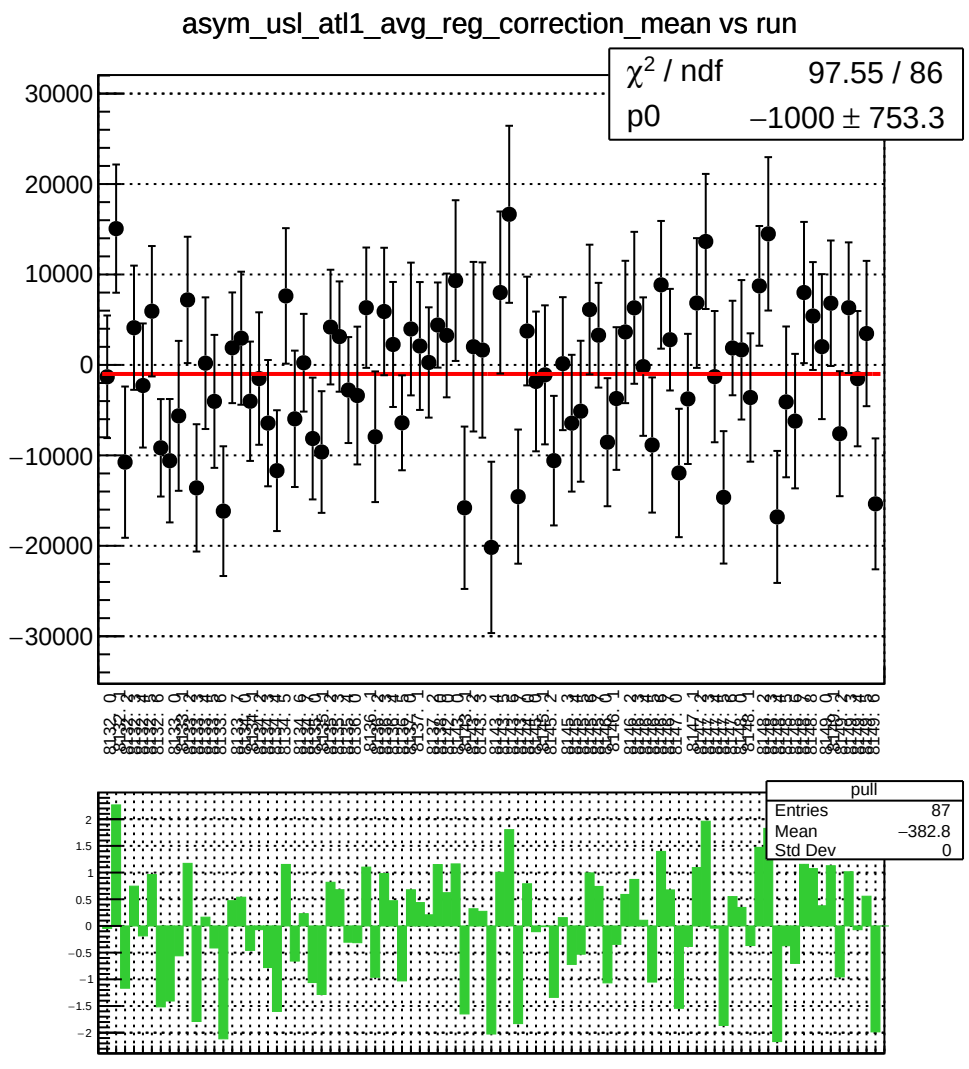

pull1D
Entries 87
Mean −0.02896
Std Dev 0.9194

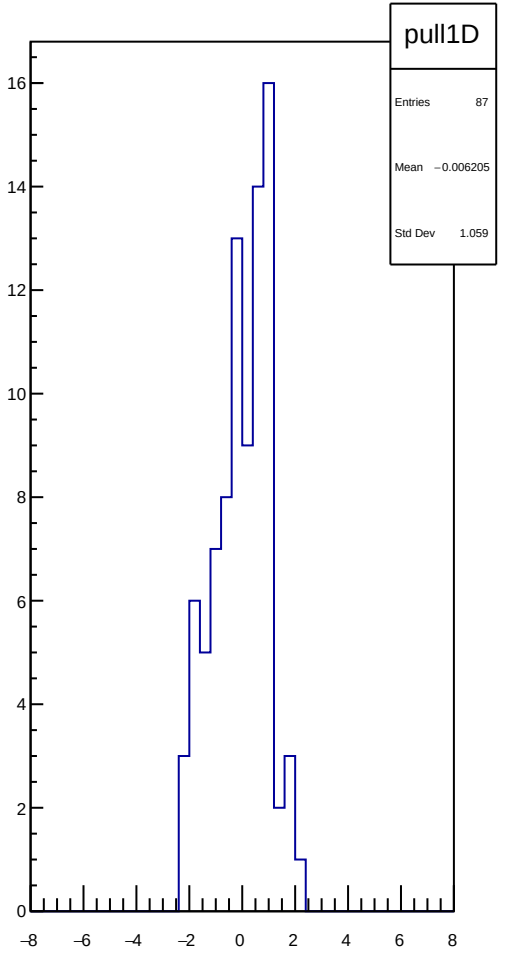

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.35
0.3
0.25
0.2
0.15
0.1
0.05
χ² / ndf 5.868e+05 / 86
p0 3.983e−11 ± 3.744e−14

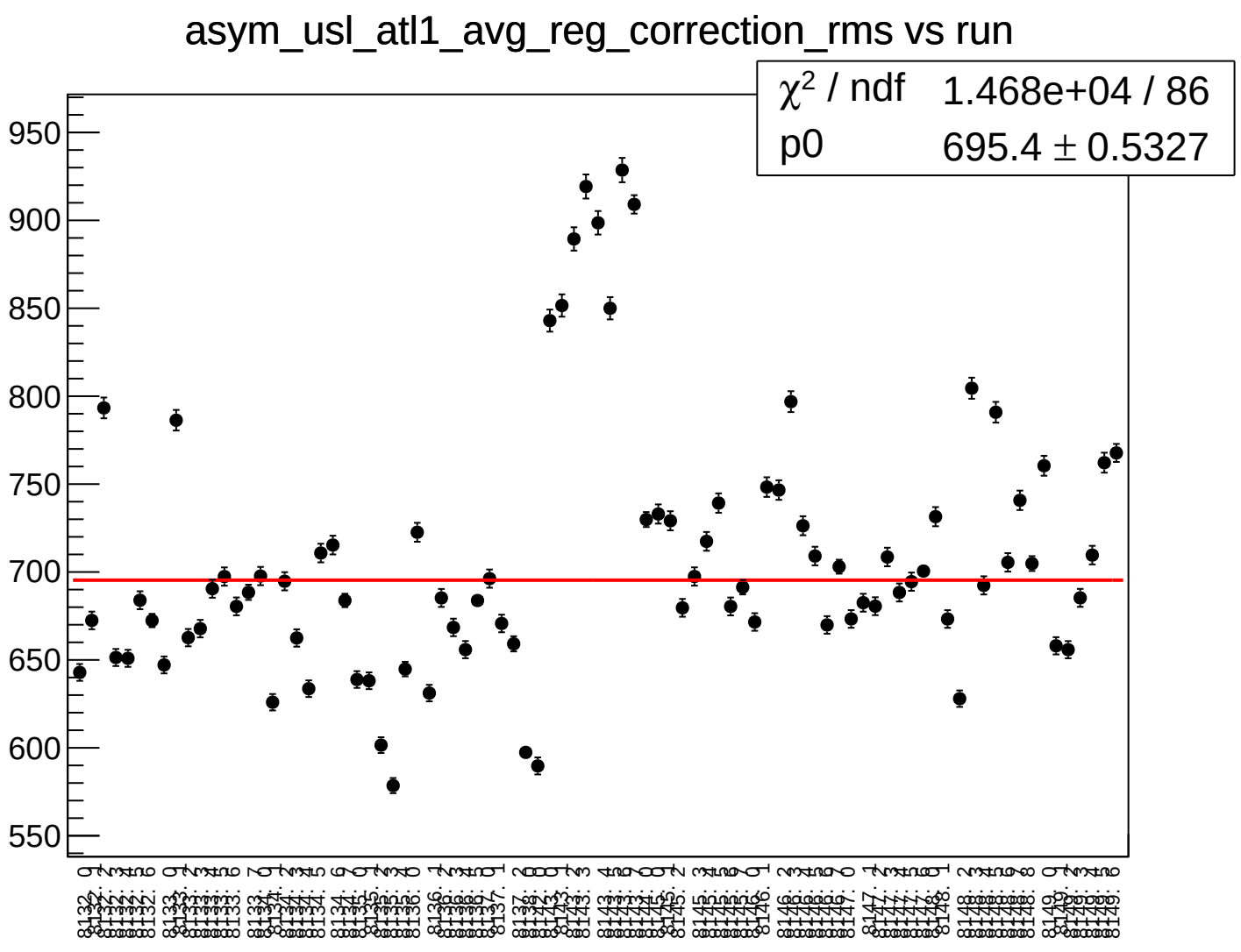

reg_asym_usl_atl1_avg_mean vs run
χ² / ndf 91.6 / 86
p0 2621 ± 1591
60000
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 1389
Std Dev 0
2
1
0
−1
−2

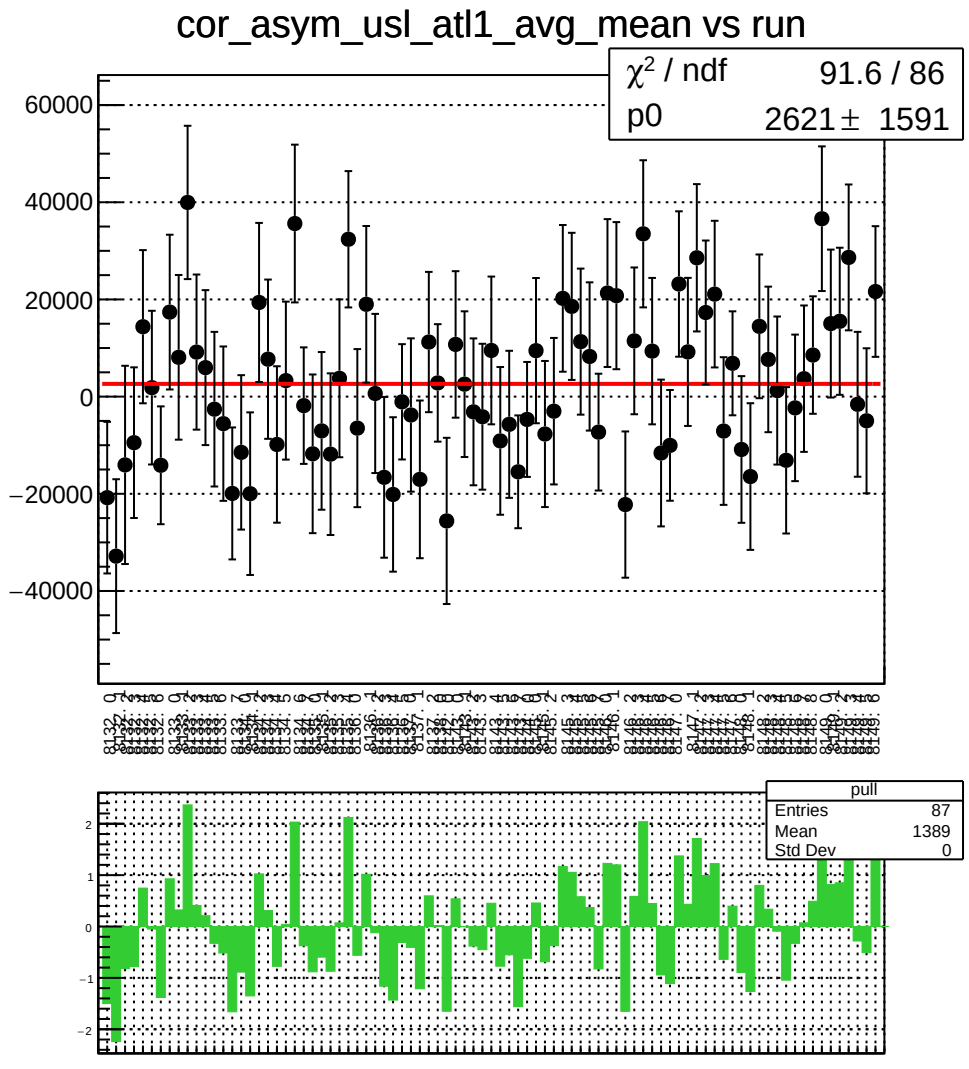

pull1D
Entries 87
Mean 0.004951
Std Dev 1.026
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

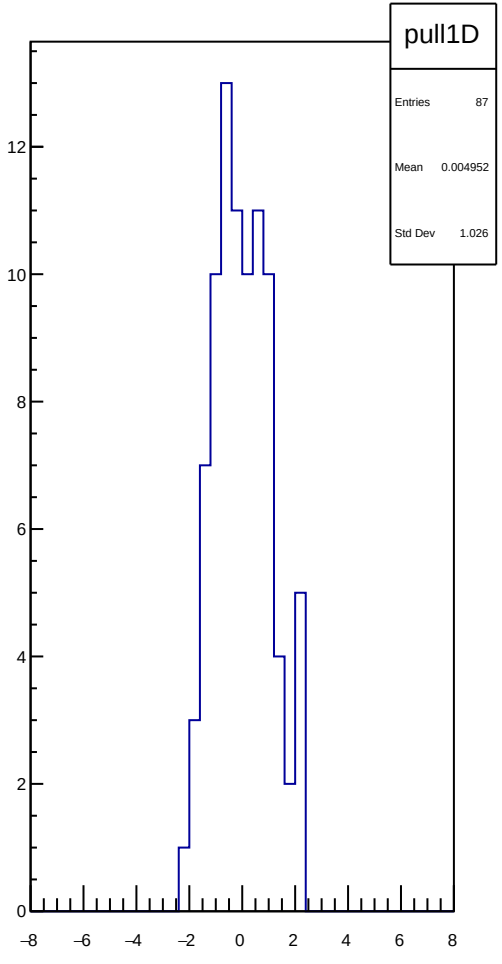

reg_asym_usl_atl1_avg_rms vs run
χ² / ndf 3170 / 86
p0 1473 ± 1.125
2000
1900
1800
1700
1600
1500
1400

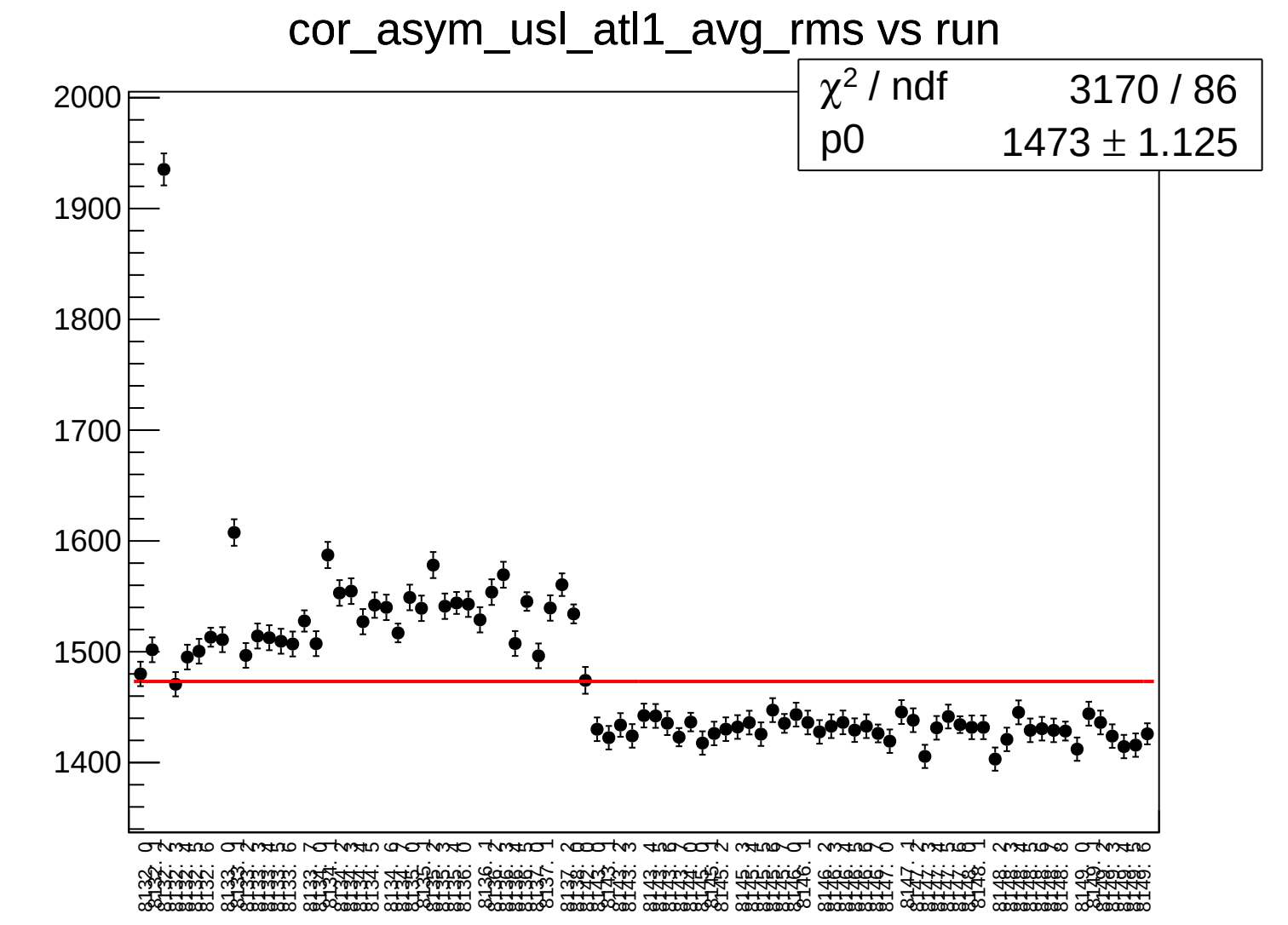

asym_usl_atl1_avg_reg_correction_mean vs run
χ² / ndf 97.55 / 86
p0 −1000 ± 753.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean −382.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

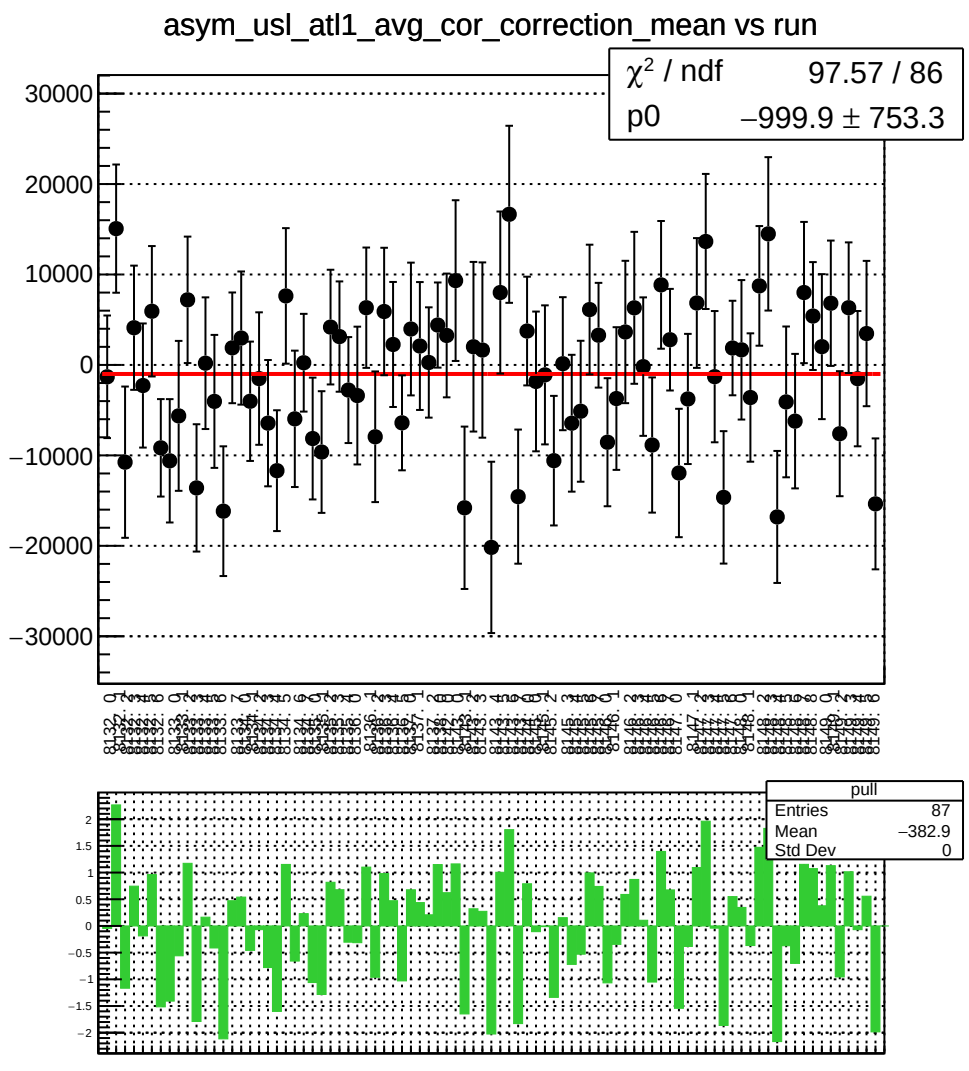

pull1D
Entries 87
Mean −0.006205
Std Dev 1.059
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

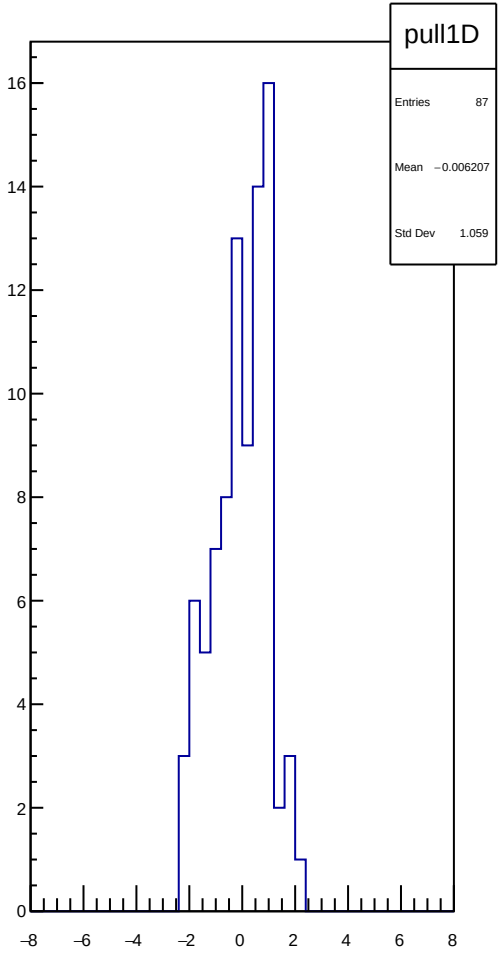

asym_usl_atl1_avg_reg_correction_rms vs run
χ² / ndf 1.468e+04 / 86
p0 695.4 ± 0.5327
950
900
850
800
750
700
650
600
550

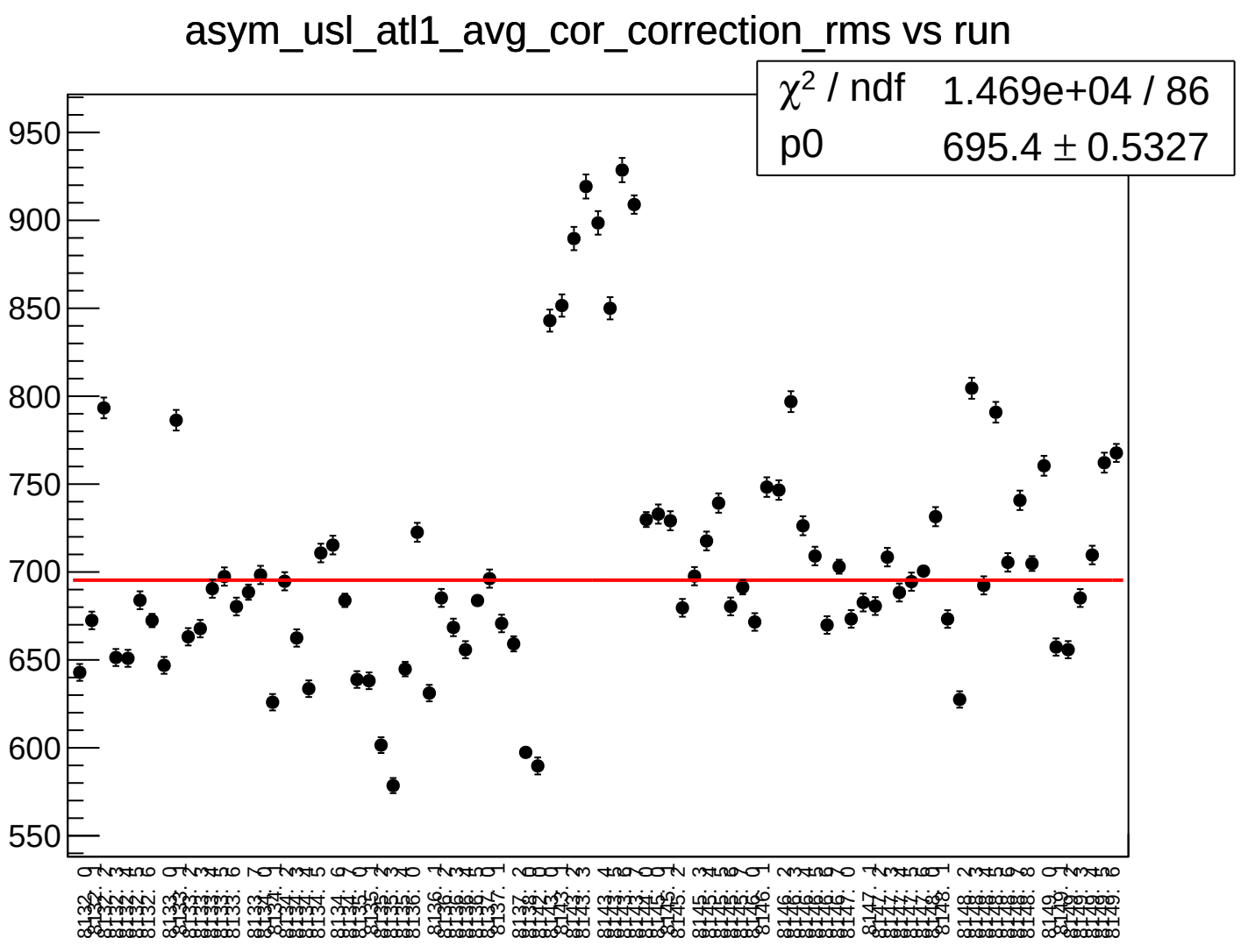

cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 91.6 / 86
p0 2621 ± 1591
60000
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 1389
Std Dev 0
2
1
0
−1
−2

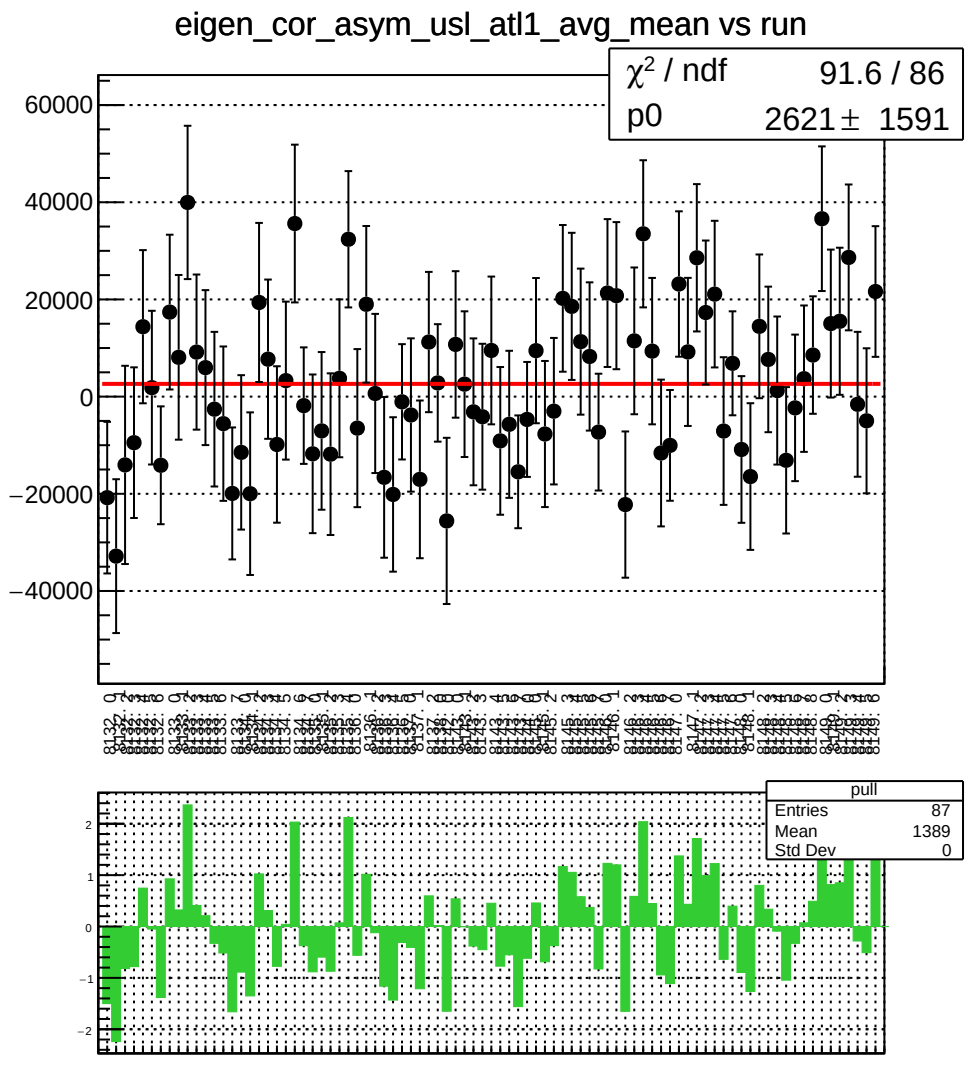

pull1D
Entries 87
Mean 0.004952
Std Dev 1.026
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

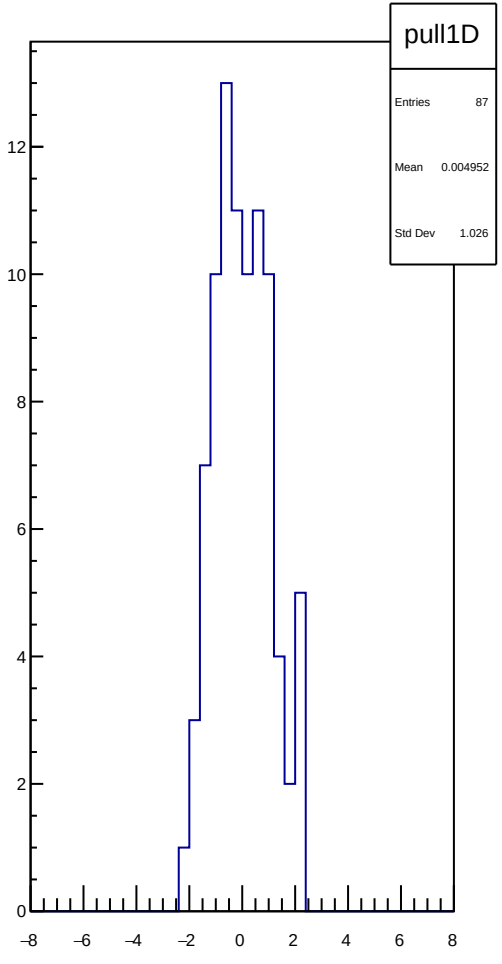

cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 3170 / 86
p0 1473 ± 1.125
2000
1900
1800
1700
1600
1500
1400


asym_usl_atl1_avg_cor_correction_mean vs run
χ² / ndf 97.57 / 86
p0 −999.9 ± 753.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean −382.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 87
Mean −0.006207
Std Dev 1.059
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl1_avg_cor_correction_rms vs run
χ² / ndf 1.469e+04 / 86
p0 695.4 ± 0.5327
950
900
850
800
750
700
650
600
550


eigen_cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 91.6 / 86
p0 2621 ± 1591
60000
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 1389
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 87
Mean 0.004952
Std Dev 1.026
12
10
8
6
4
2
0
−8
−6
−4
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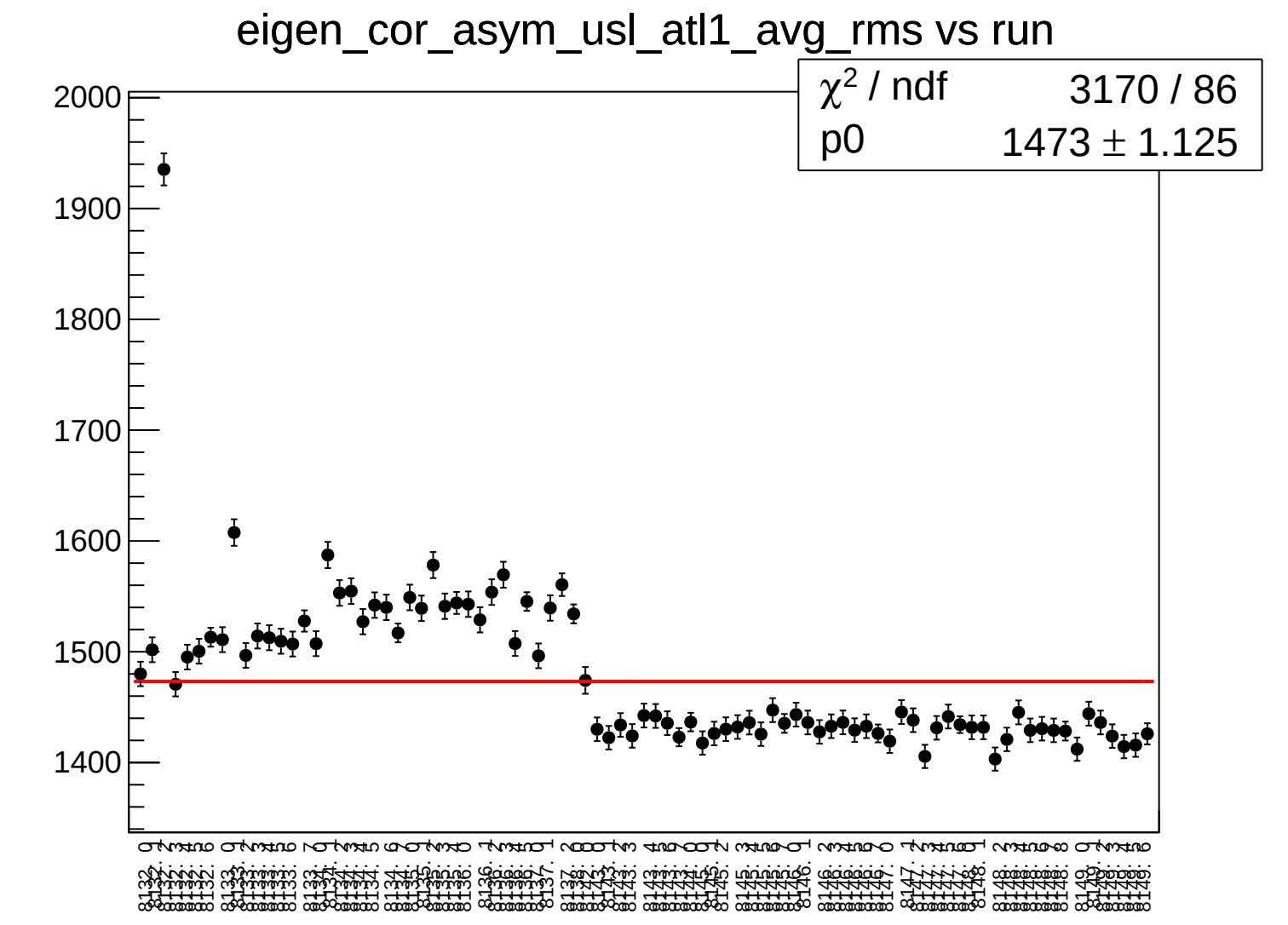
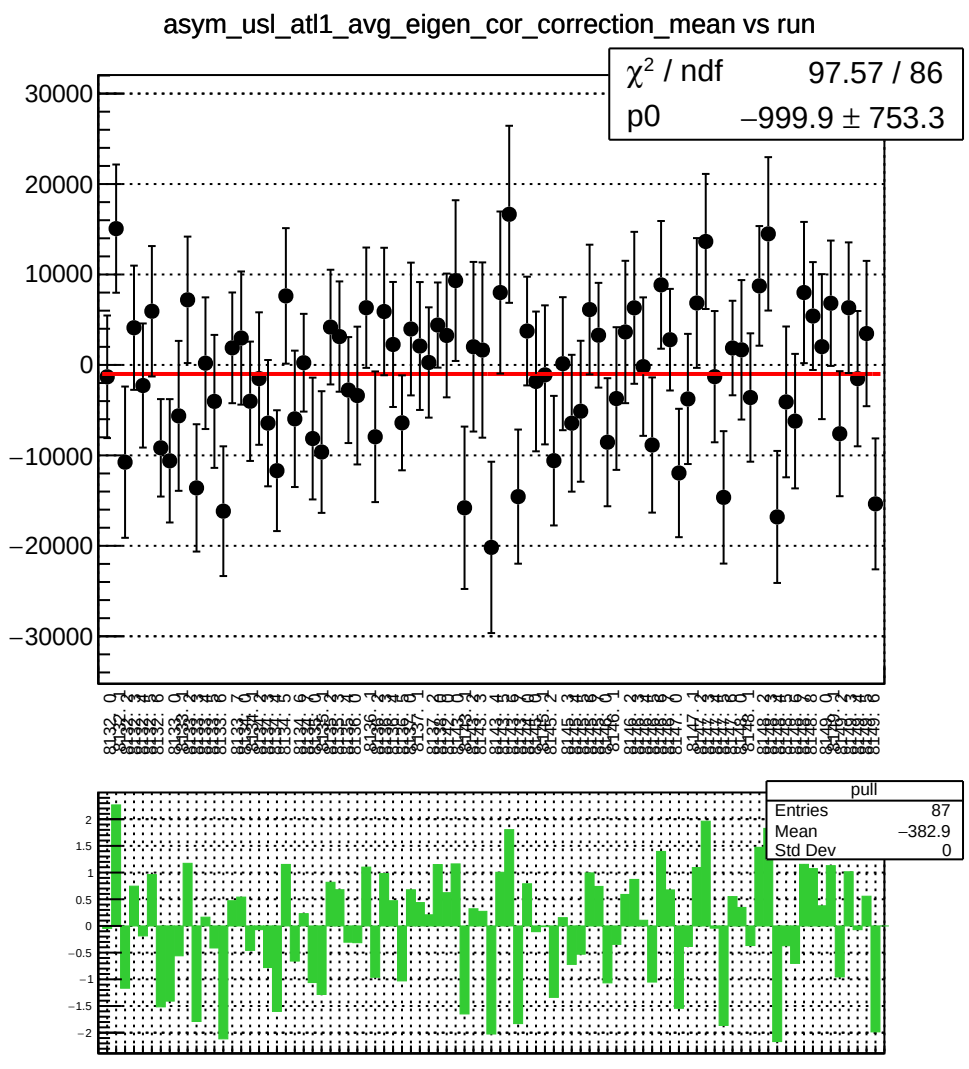
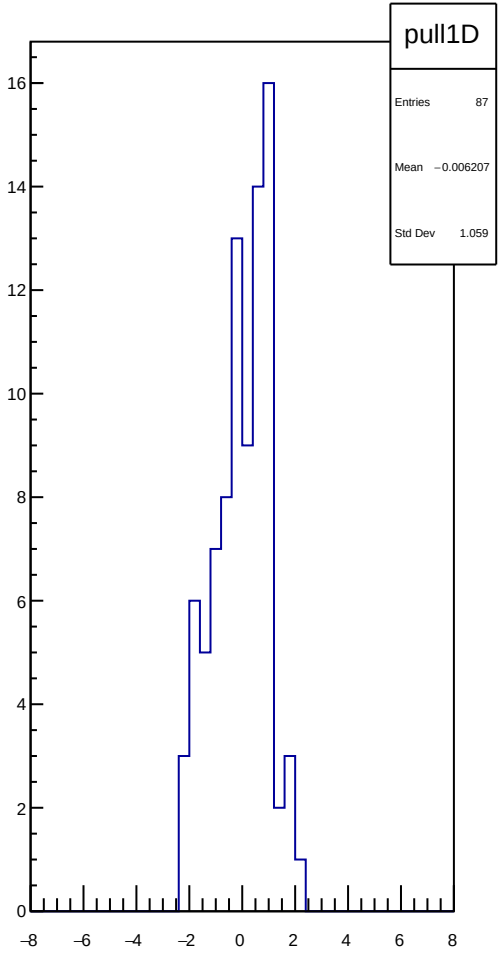
2
4
6
8


eigen_cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 3170 / 86
p0 1473 ± 1.125
2000
1900
1800
1700
1600
1500
1400


asym_usl_atl1_avg_eigen_cor_correction_mean vs run
χ² / ndf 97.57 / 86
p0 −999.9 ± 753.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean −382.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 87
Mean −0.006207
Std Dev 1.059
16
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4
2
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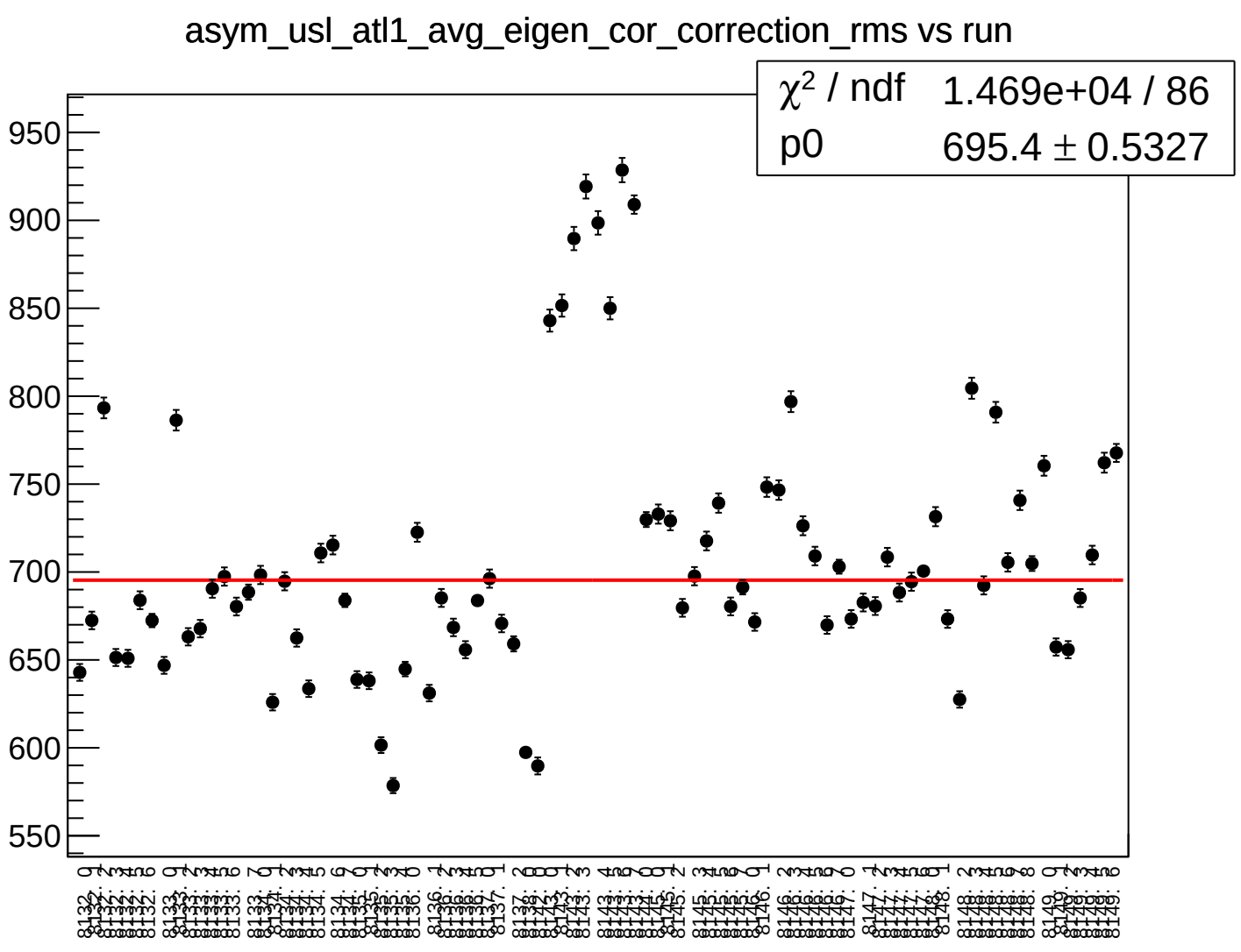
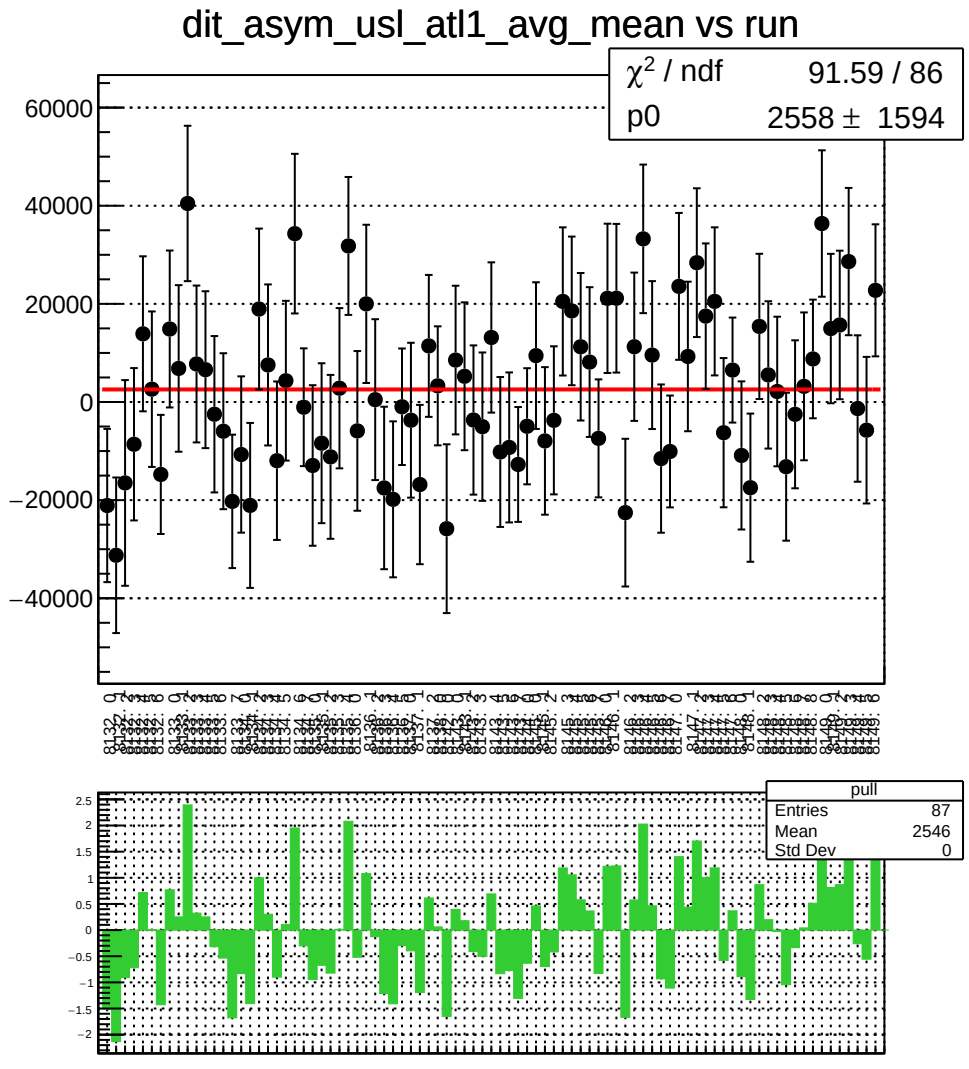
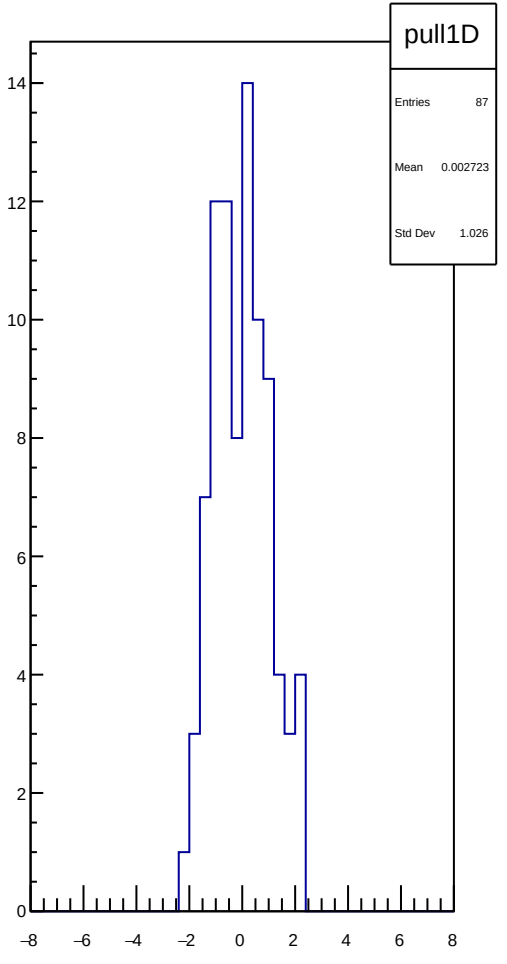
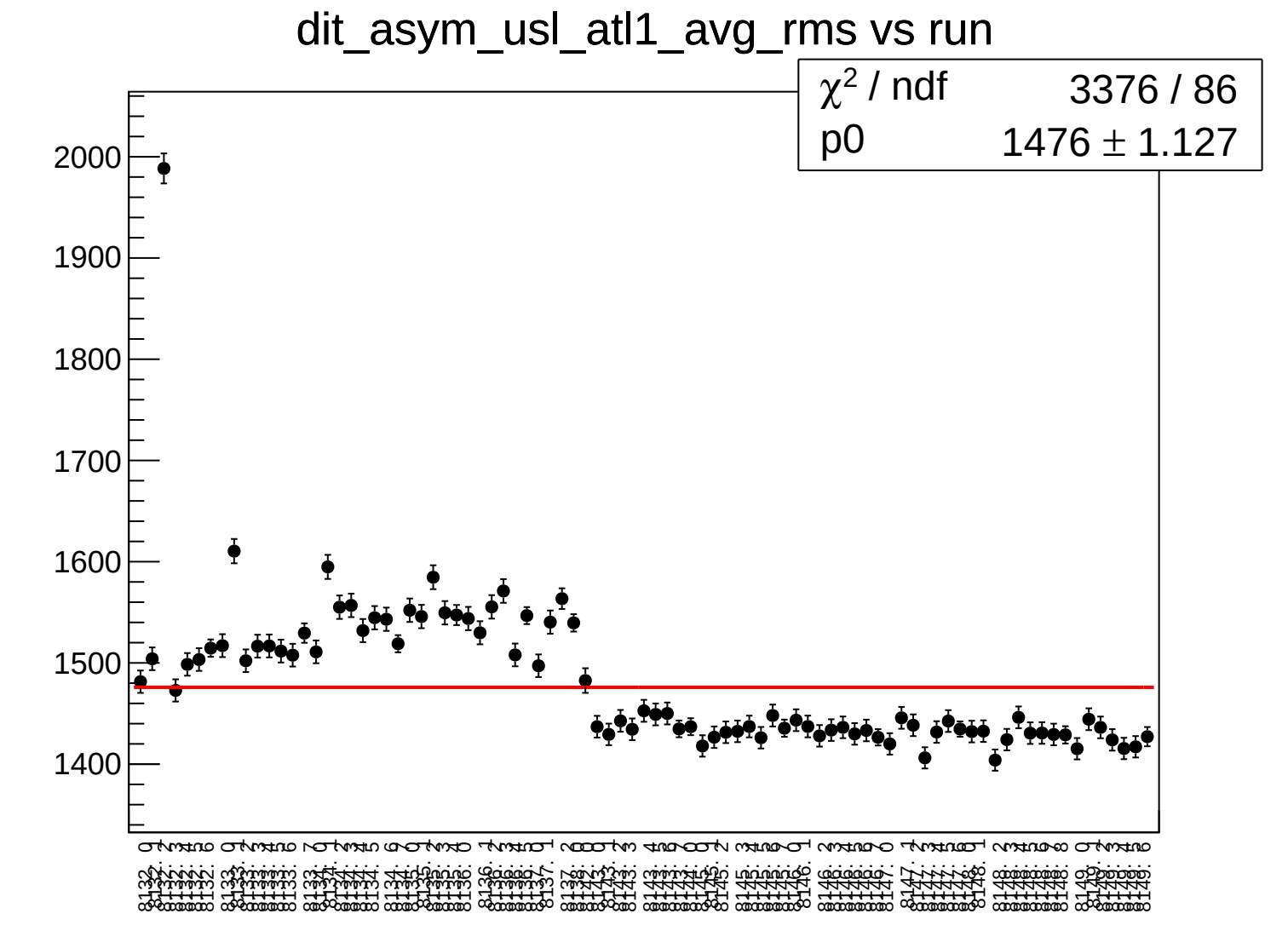
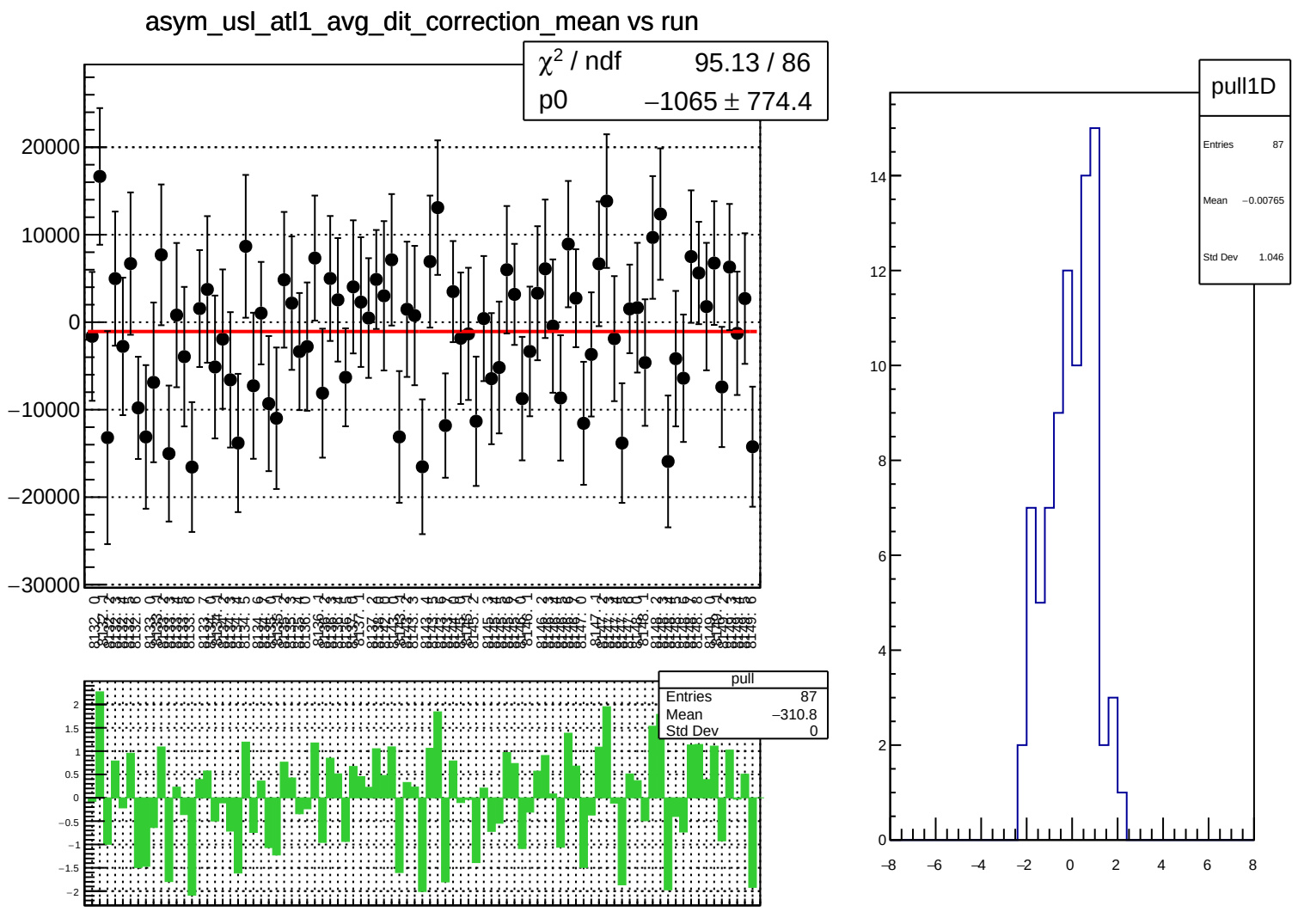
2
4
6
8

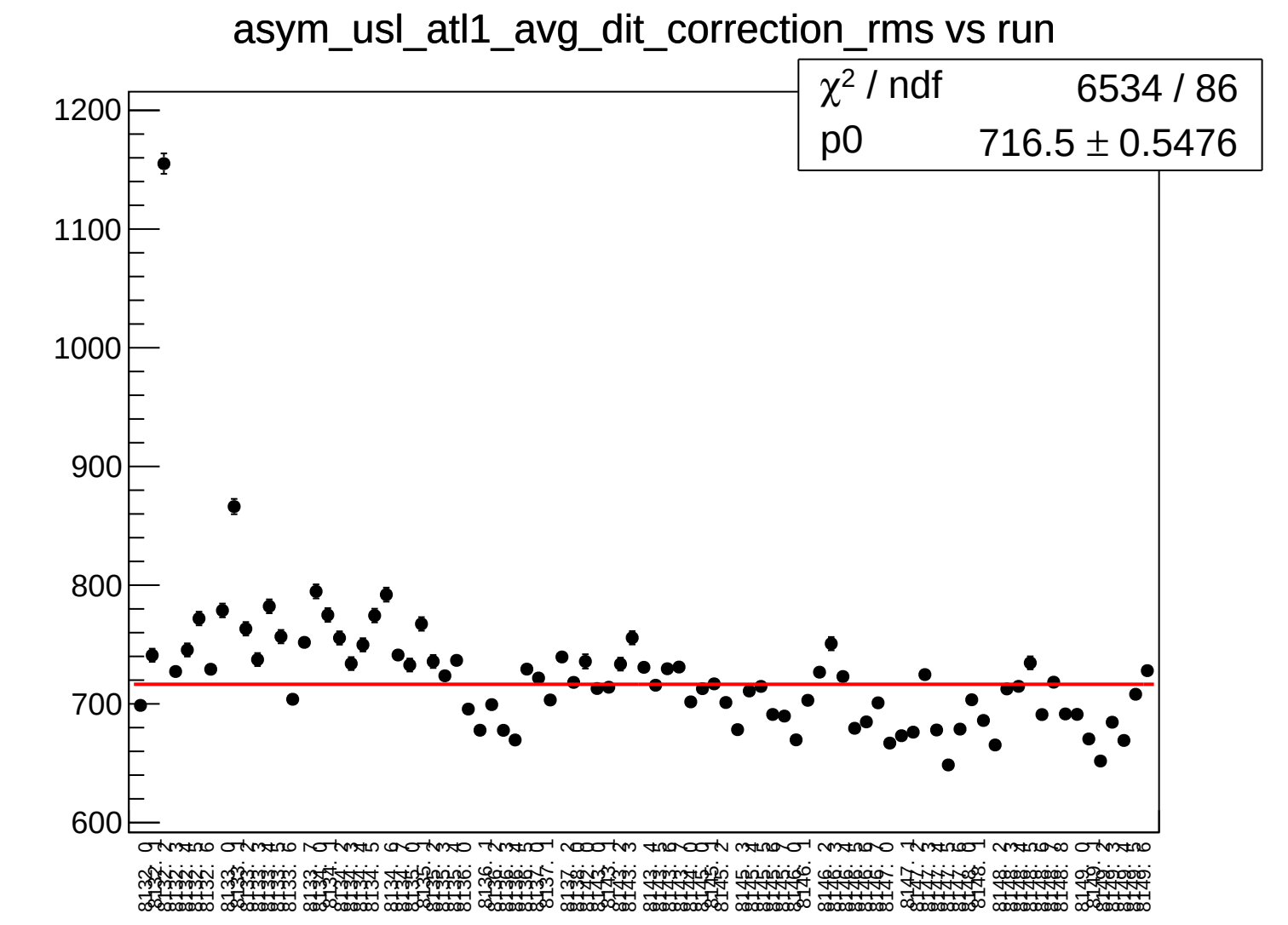

asym_usl_atl1_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.469e+04 / 86
p0 695.4 ± 0.5327
950
900
850
800
750
700
650
600
550

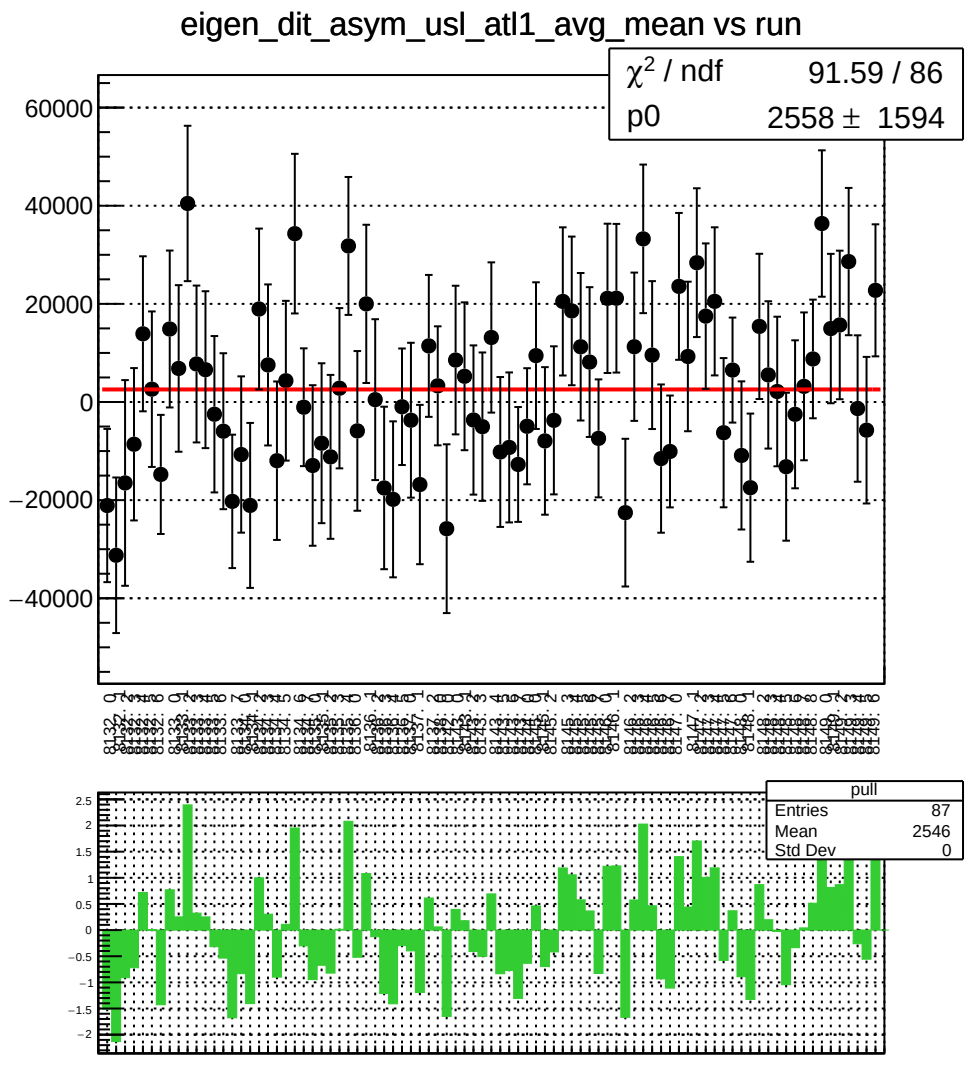

dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 91.59 / 86
p0 2558 ± 1594
60000
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 2546
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

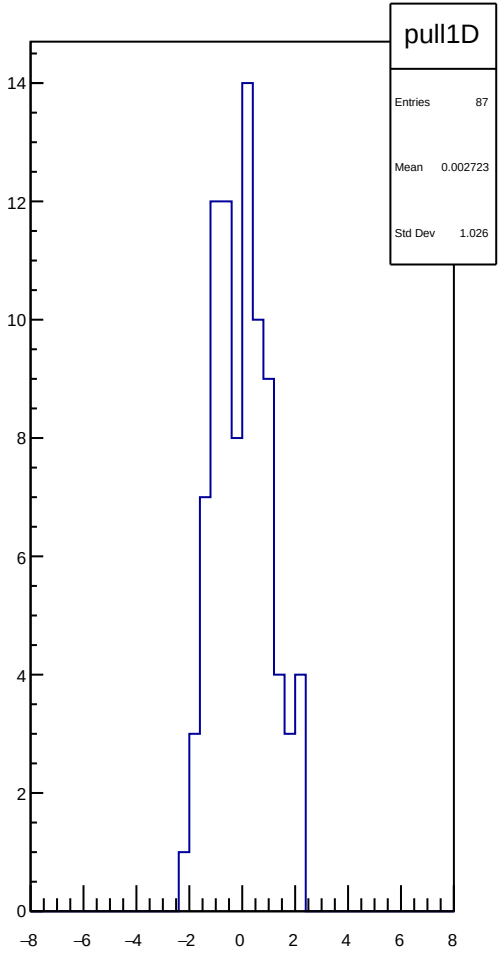

pull1D
Entries 87
Mean 0.002723
Std Dev 1.026
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

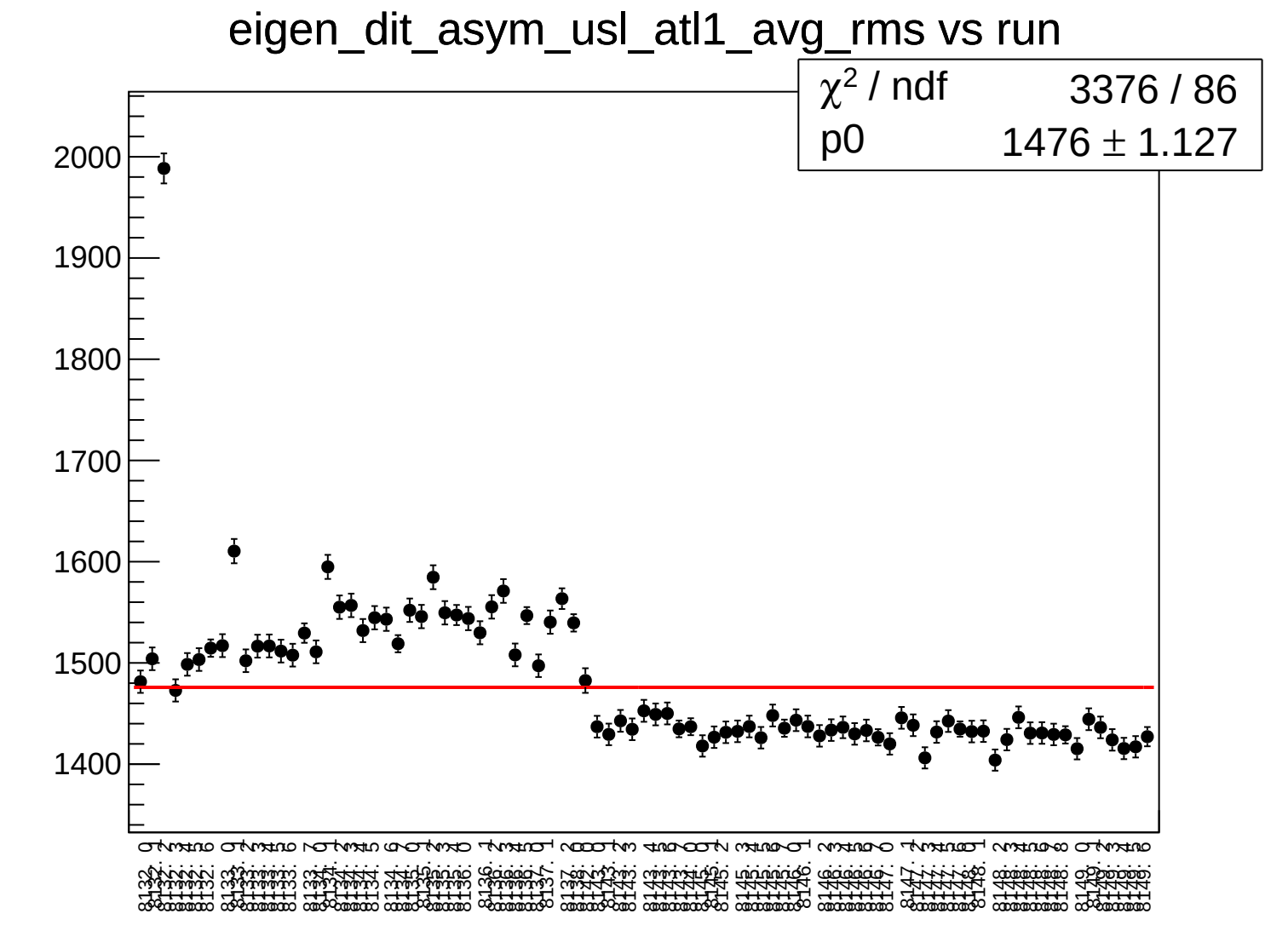

dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 3376 / 86
p0 1476 ± 1.127
2000
1900
1800
1700
1600
1500
1400

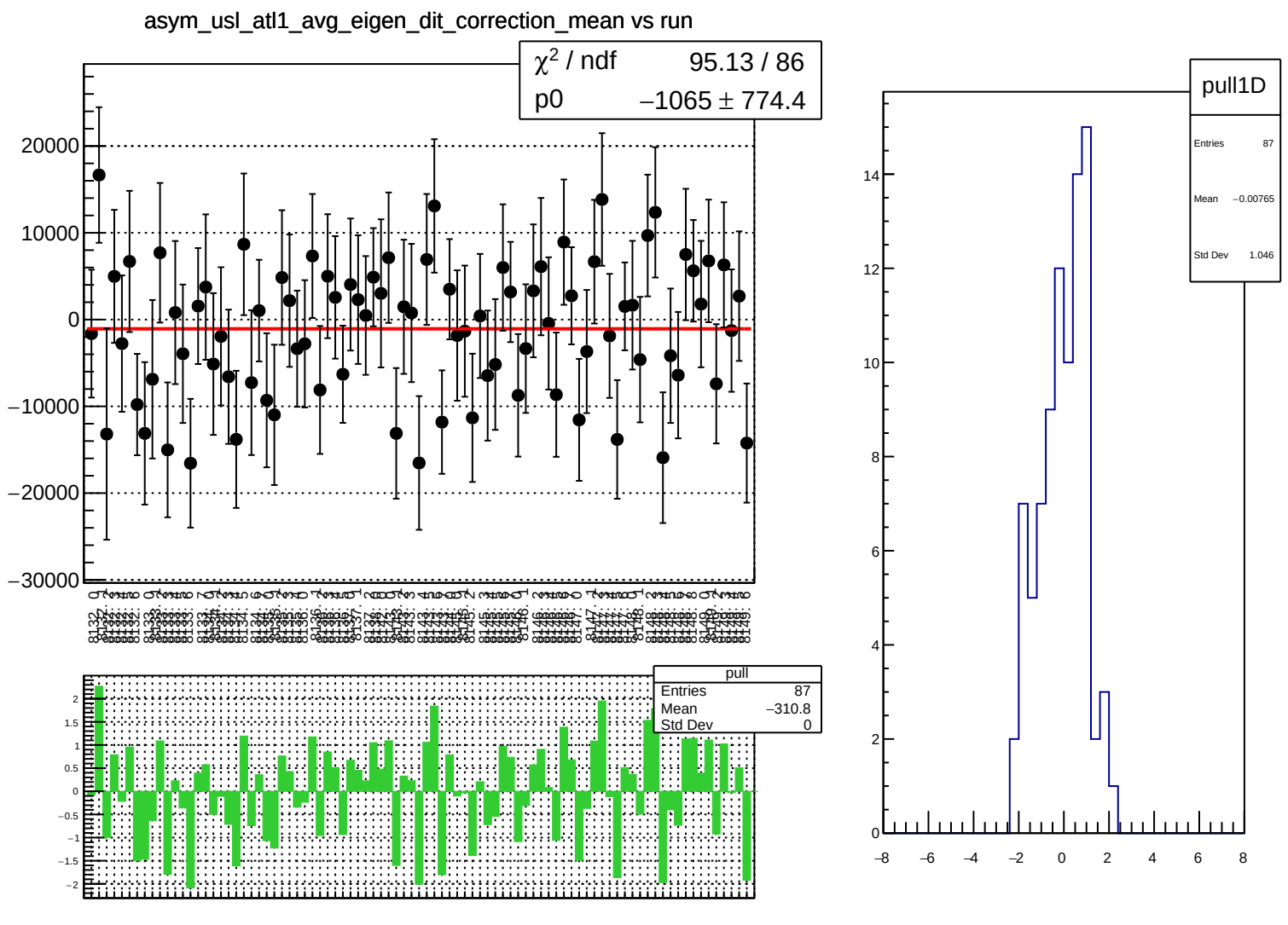

asym_usl_atl1_avg_dit_correction_mean vs run
χ² / ndf 95.13 / 86
p0 −1065 ± 774.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean −310.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 87
Mean −0.00765
Std Dev 1.046
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

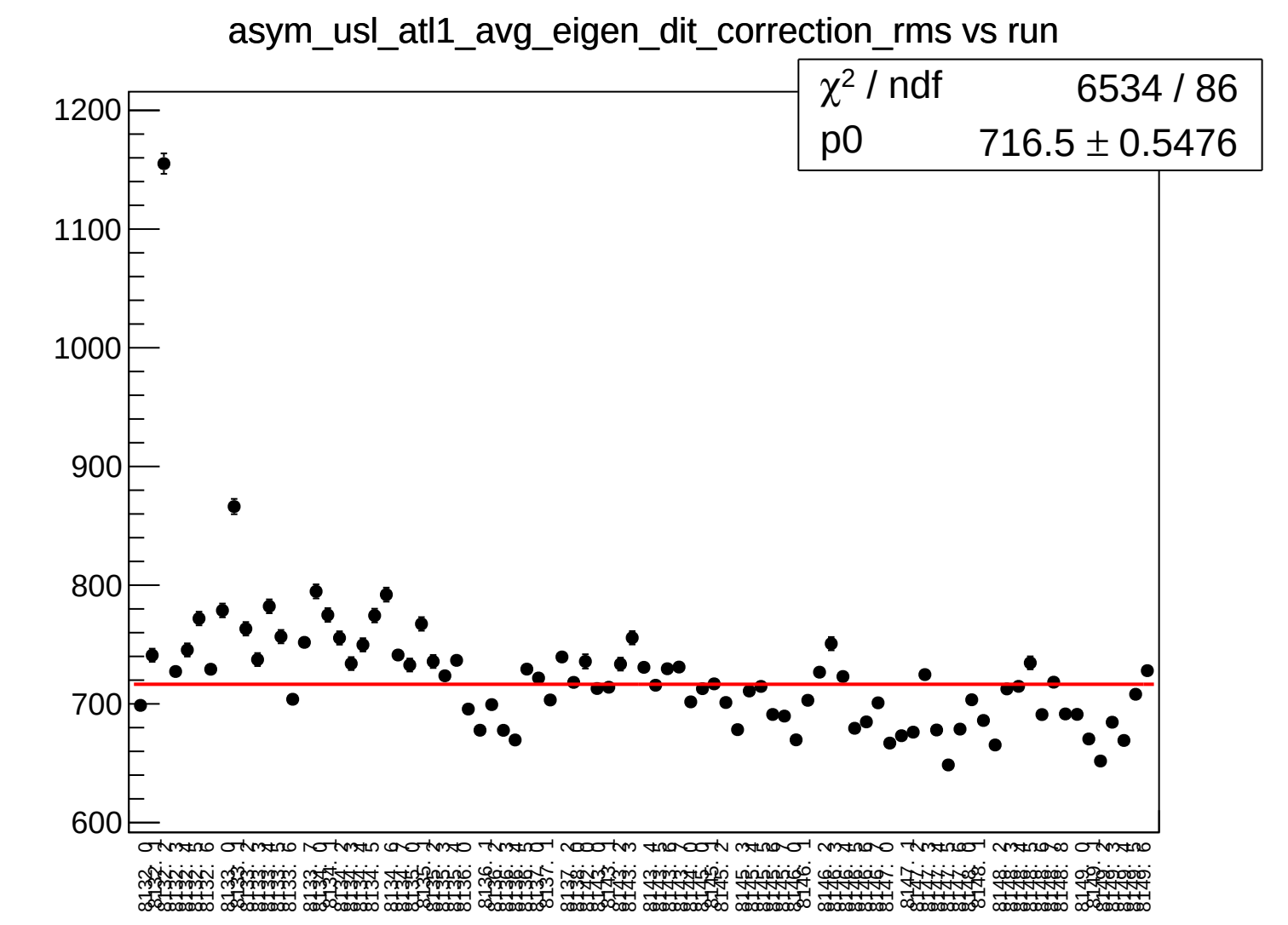

asym_usl_atl1_avg_dit_correction_rms vs run
χ² / ndf 6534 / 86
p0 716.5 ± 0.5476
1200
1100
1000
900
800
700
600

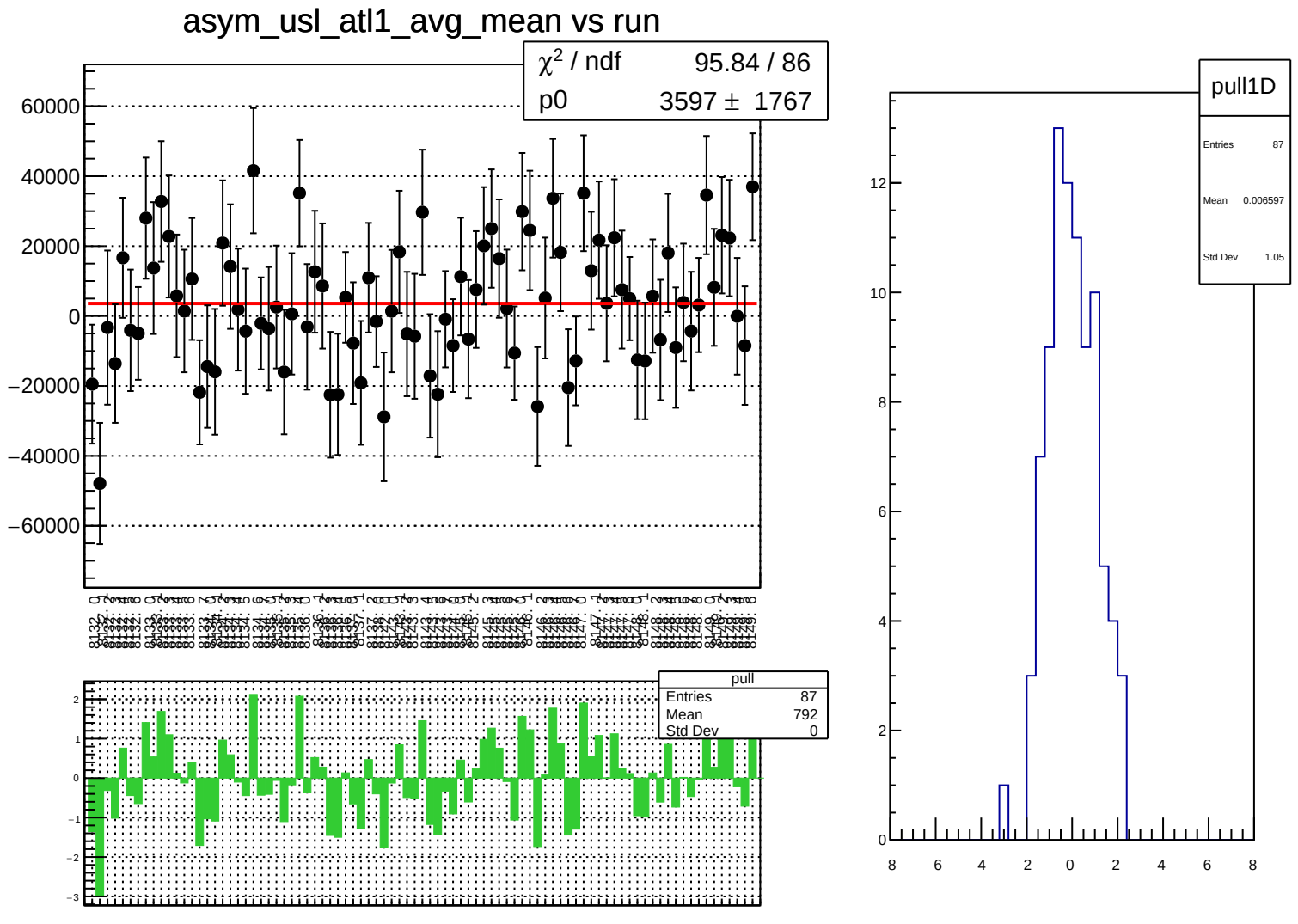

eigen_dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 91.59 / 86
p0 2558 ± 1594
pull
Entries 87
Mean 2546
Std Dev 0

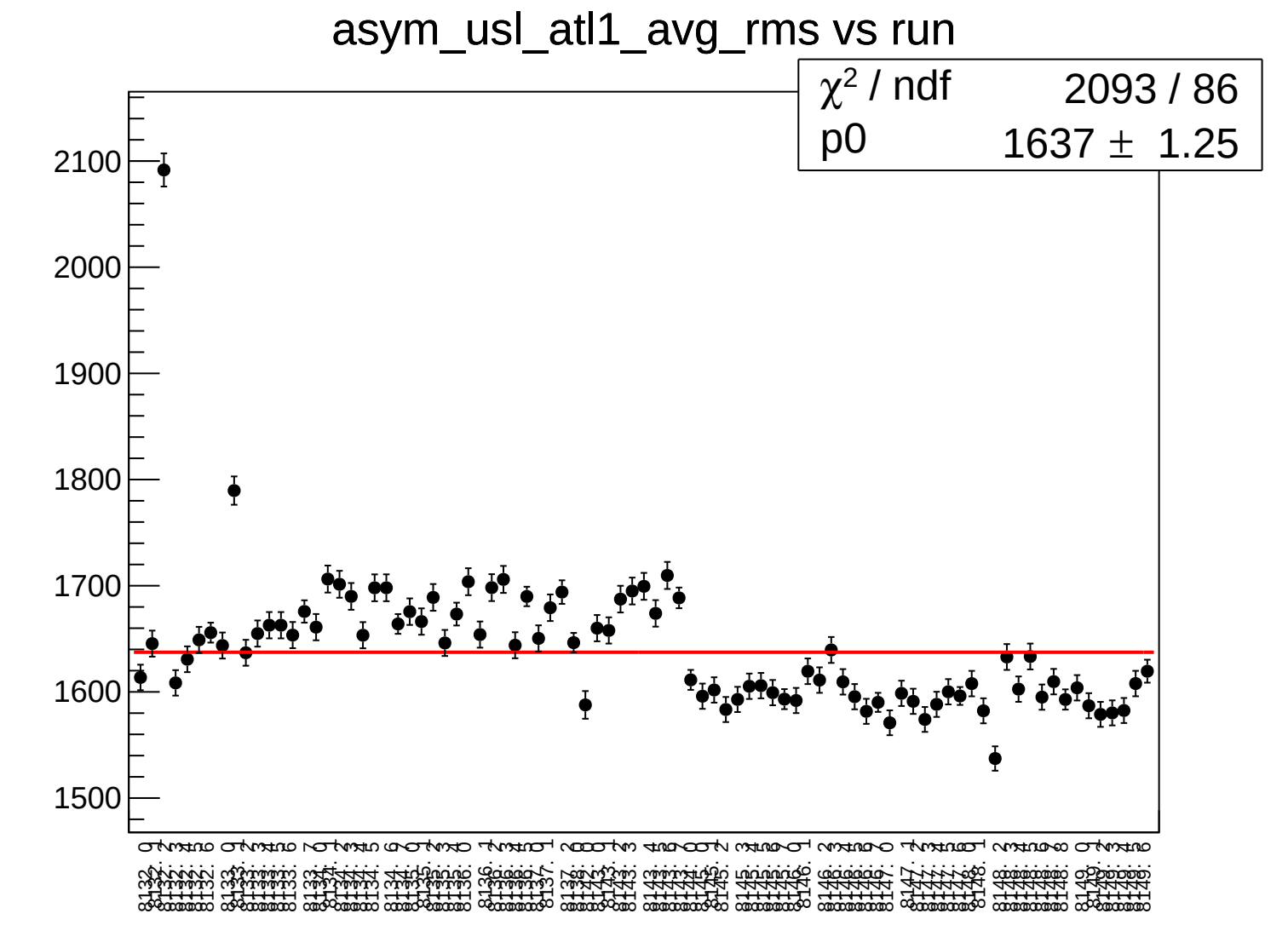

pull1D
Entries 87
Mean 0.002723
Std Dev 1.026

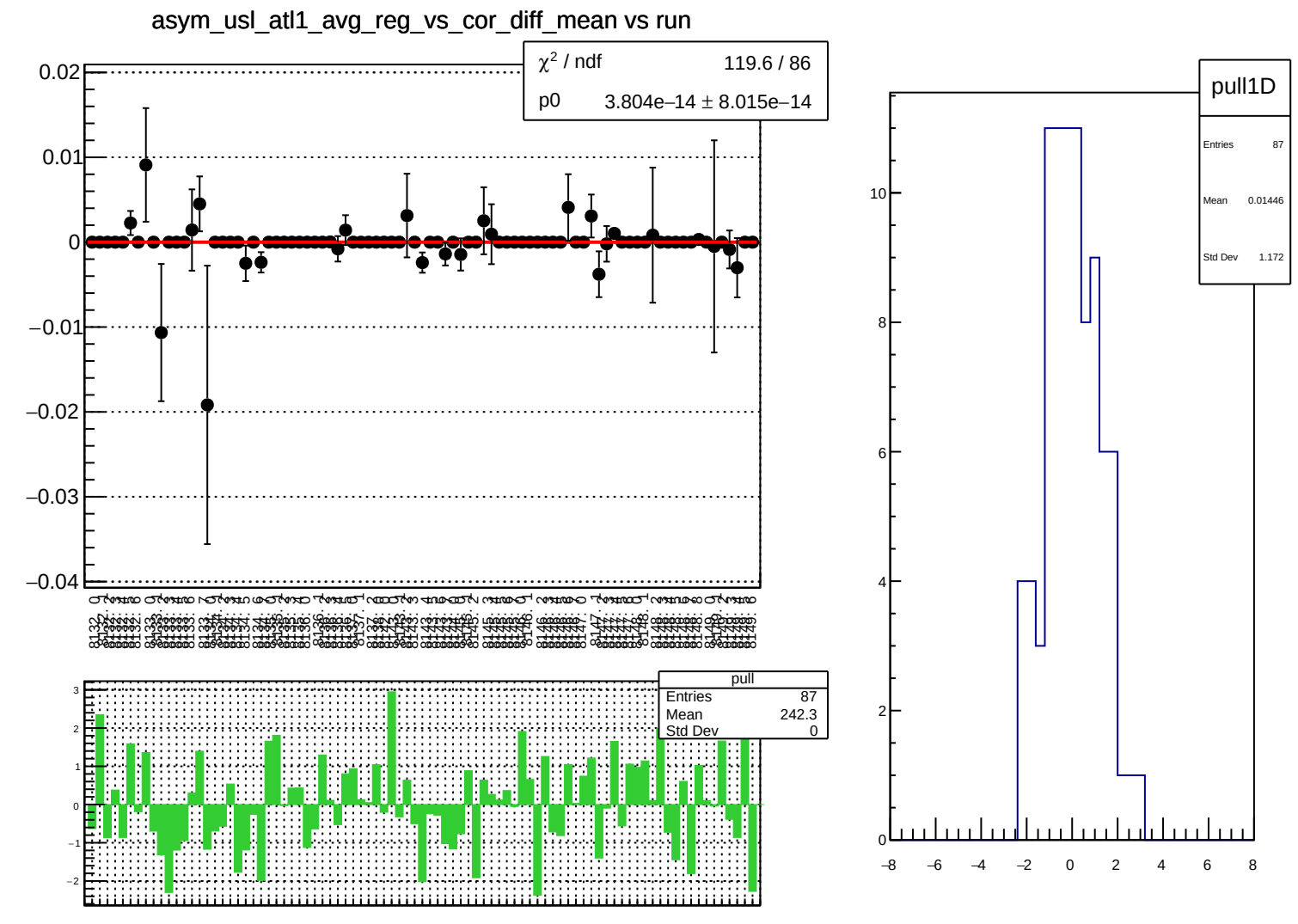

eigen_dit_asym_usl_atl1_avg_rms vs run
χ^2 / ndf 3376 / 86
p0 1476 ± 1.127
2000
1900
1800
1700
1600
1500
1400

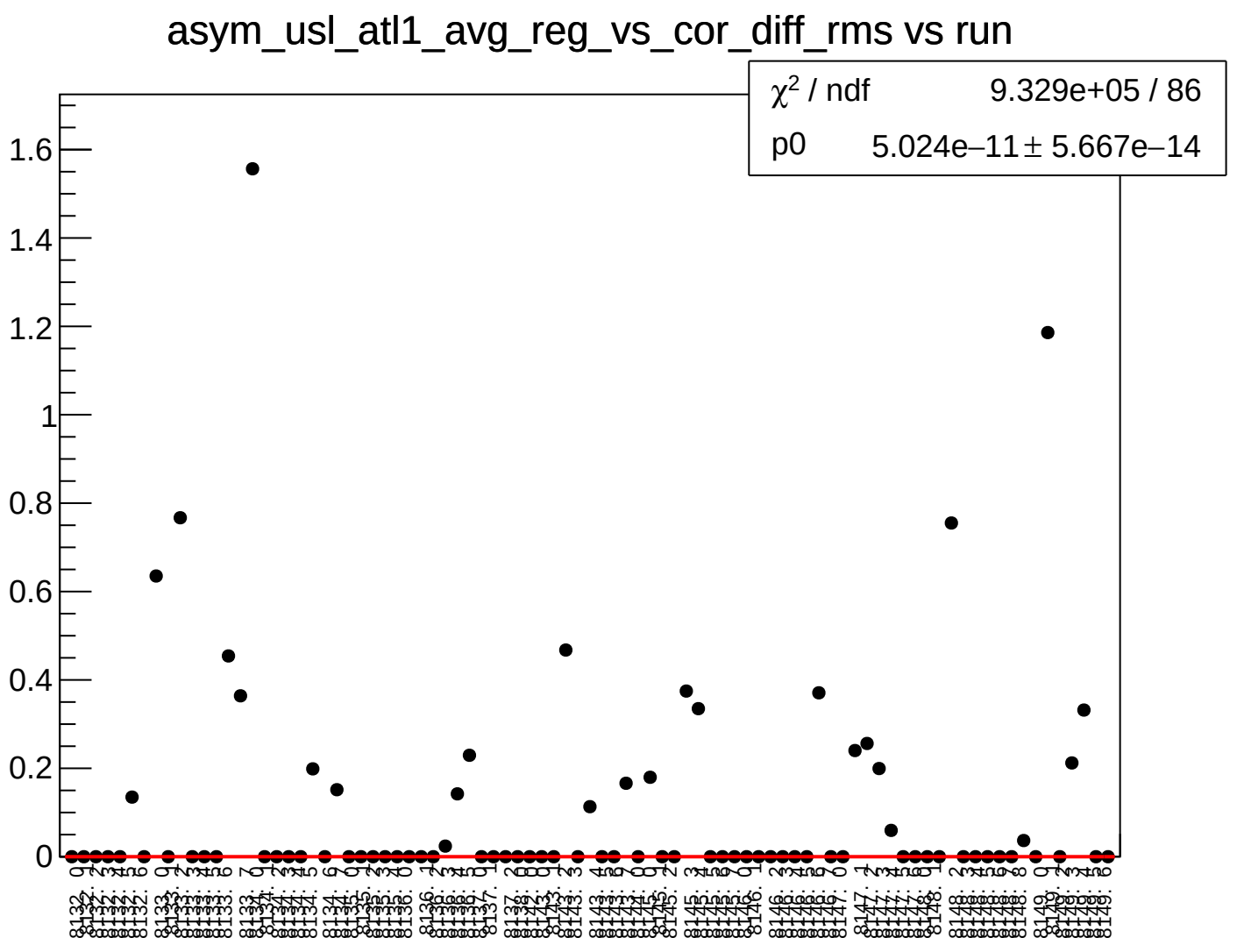

asym_usl_atl1_avg_eigen_dit_correction_mean vs run
χ² / ndf 95.13 / 86
p0 −1065 ± 774.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean −310.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 87
Mean −0.00765
Std Dev 1.046
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

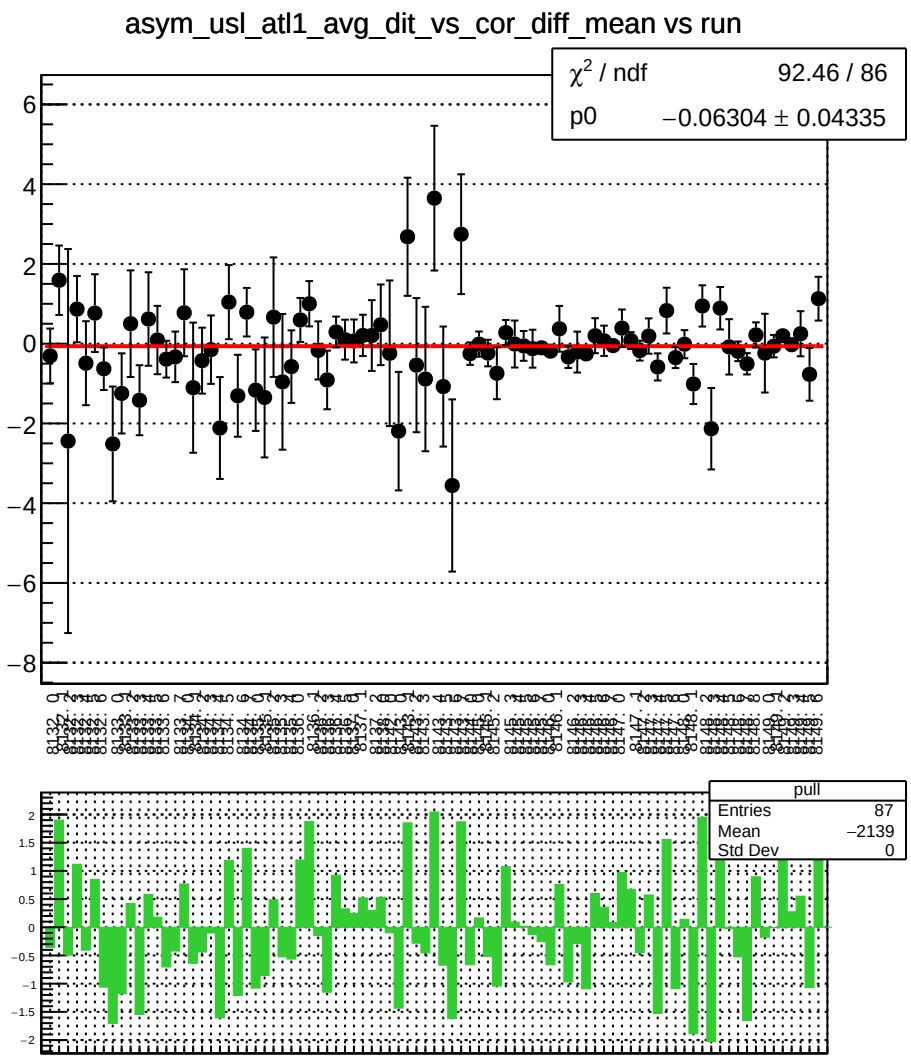

asym_usl_atl1_avg_eigen_dit_correction_rms vs run
χ² / ndf 6534 / 86
p0 716.5 ± 0.5476
1200
1100
1000
900
800
700
600

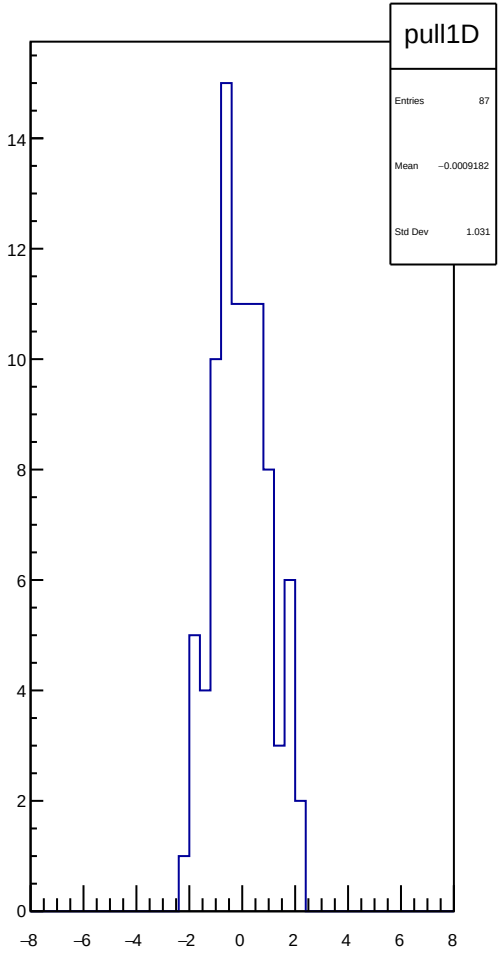

asym_usl_atl1_avg_mean vs run
χ² / ndf 95.84 / 86
p0 3597 ± 1767
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 792
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean 0.006597
Std Dev 1.05
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

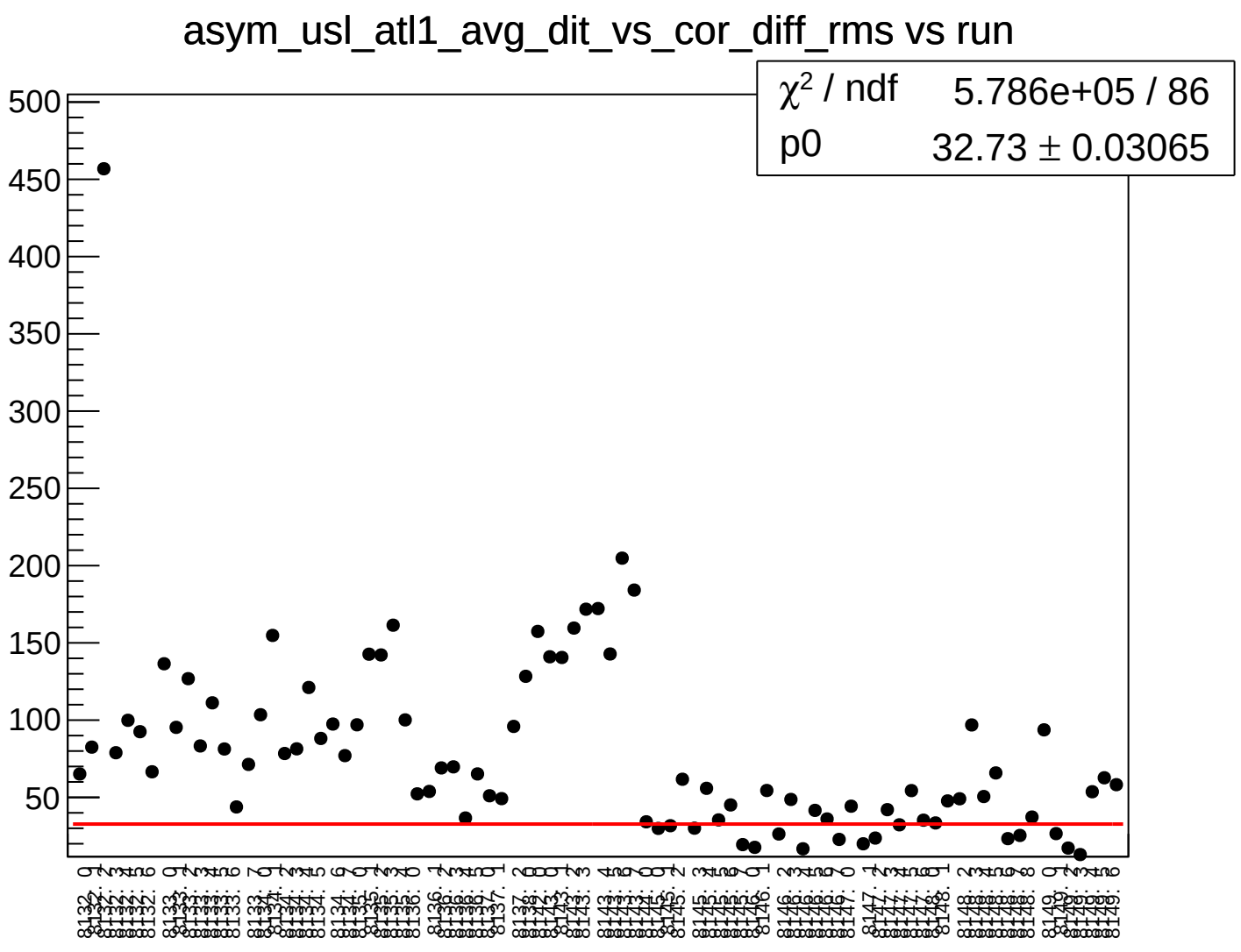

asym_usl_atl1_avg_rms vs run
χ² / ndf 2093 / 86
p0 1637 ± 1.25
2100
2000
1900
1800
1700
1600
1500

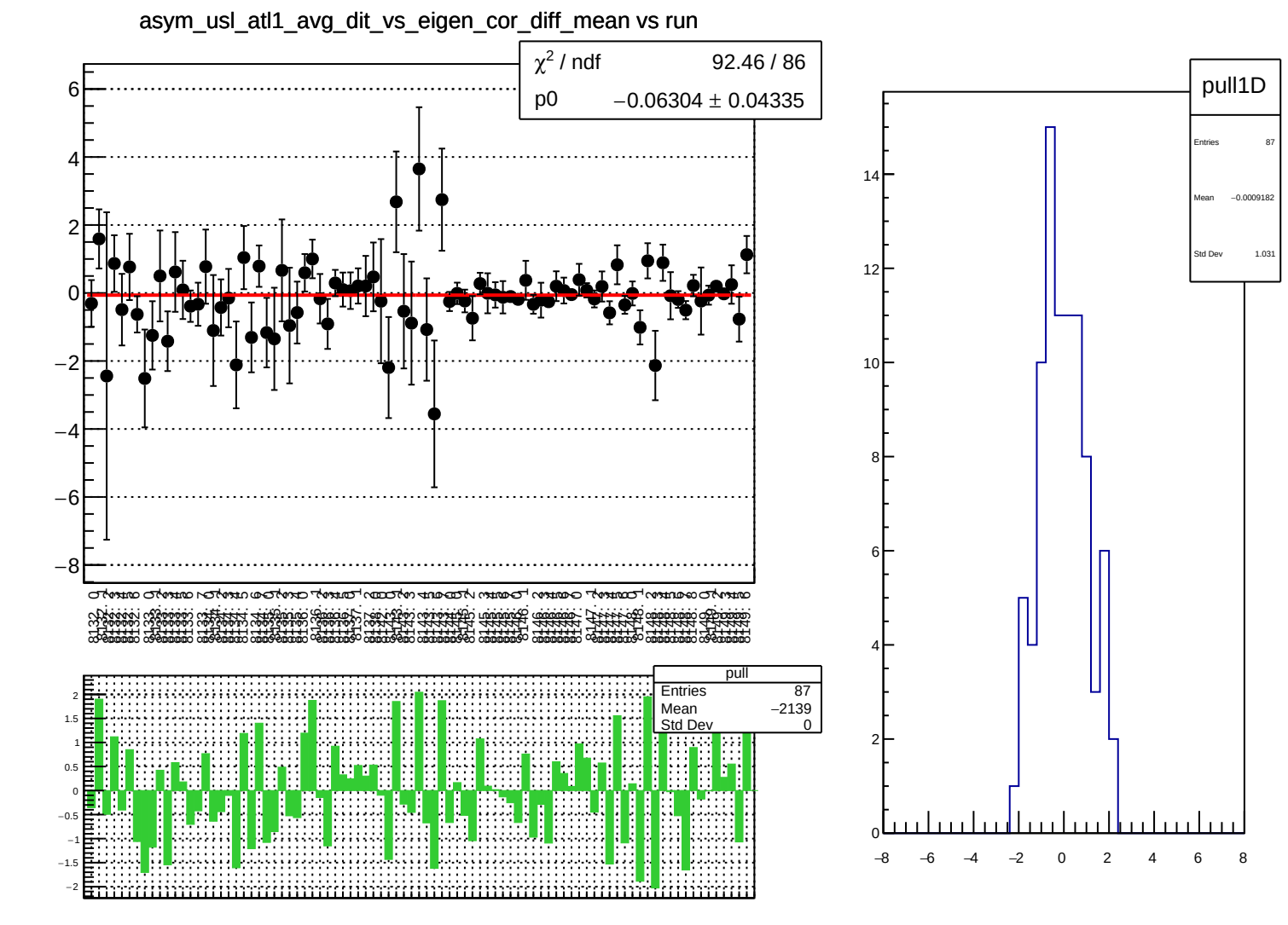

asym_usl_atl1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 119.6 / 86
p0 3.804e−14 ± 8.015e−14
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 87
Mean 242.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.01446
Std Dev 1.172
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

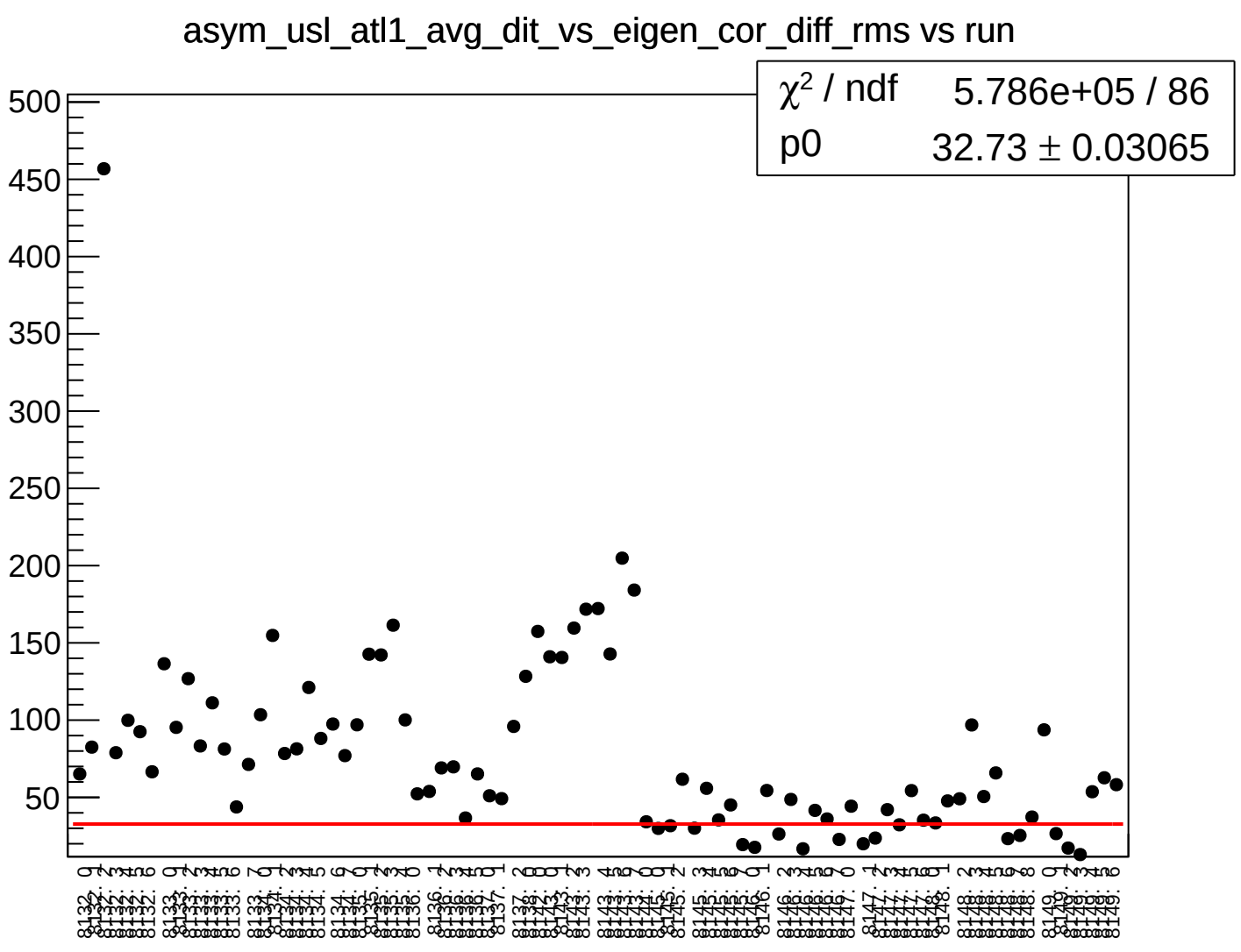

asym_usl_atl1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.329e+05 / 86
p0 5.024e−11 ± 5.667e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

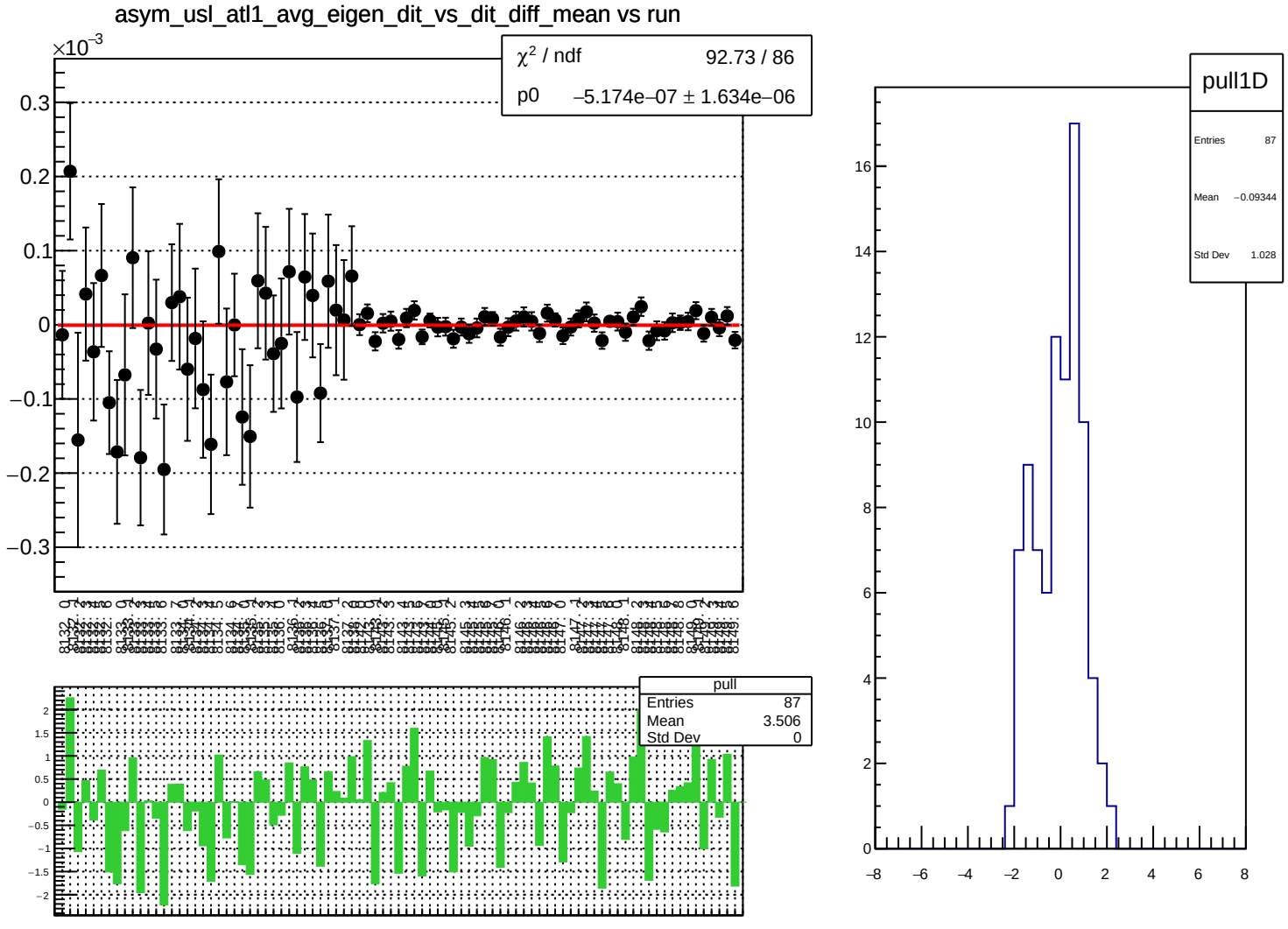

asym_usl_atl1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 92.46 / 86
p0 −0.06304 ± 0.04335
pull
Entries 87
Mean −2139
Std Dev 0

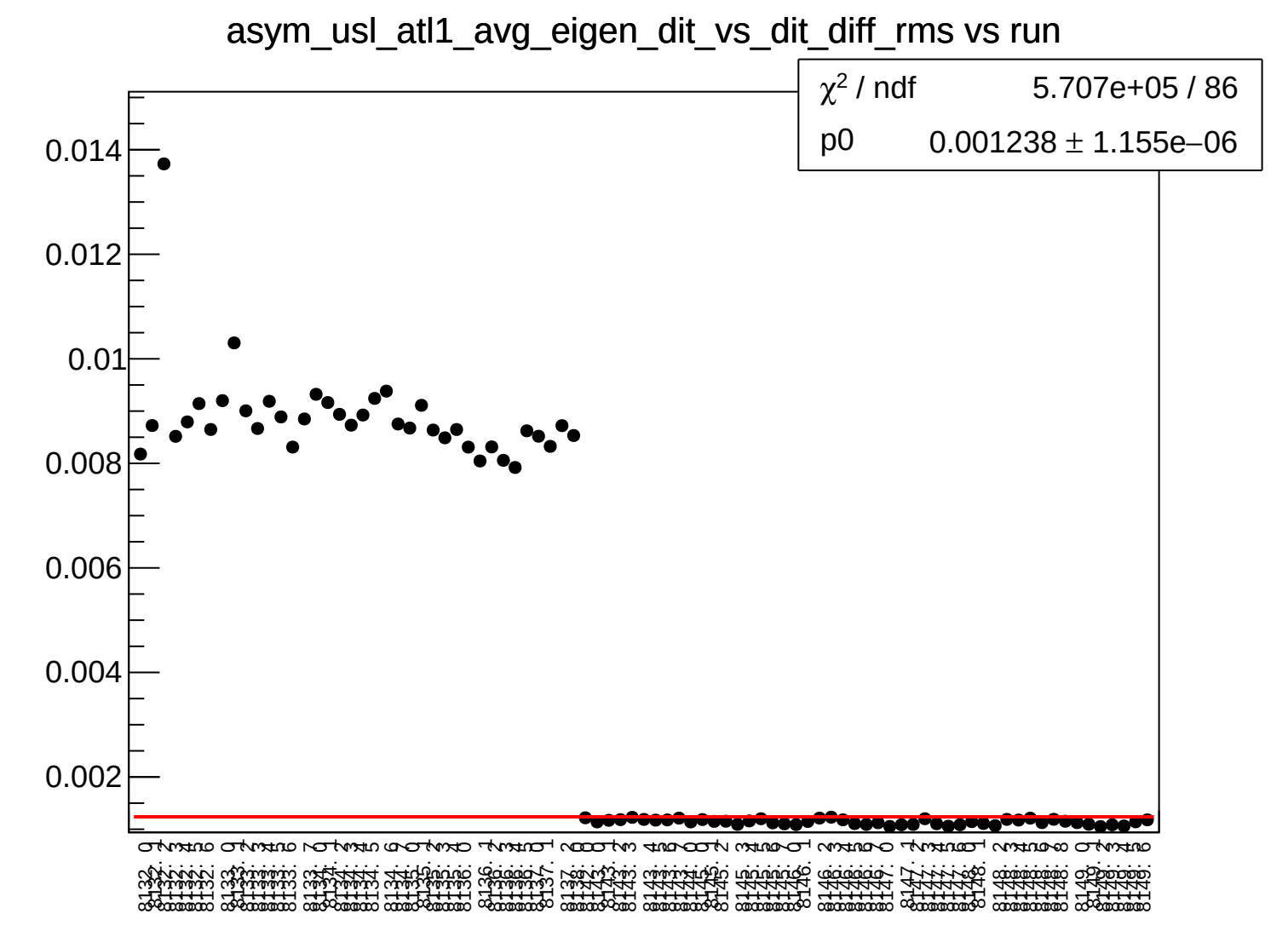

pull1D
Entries 87
Mean −0.0009182
Std Dev 1.031

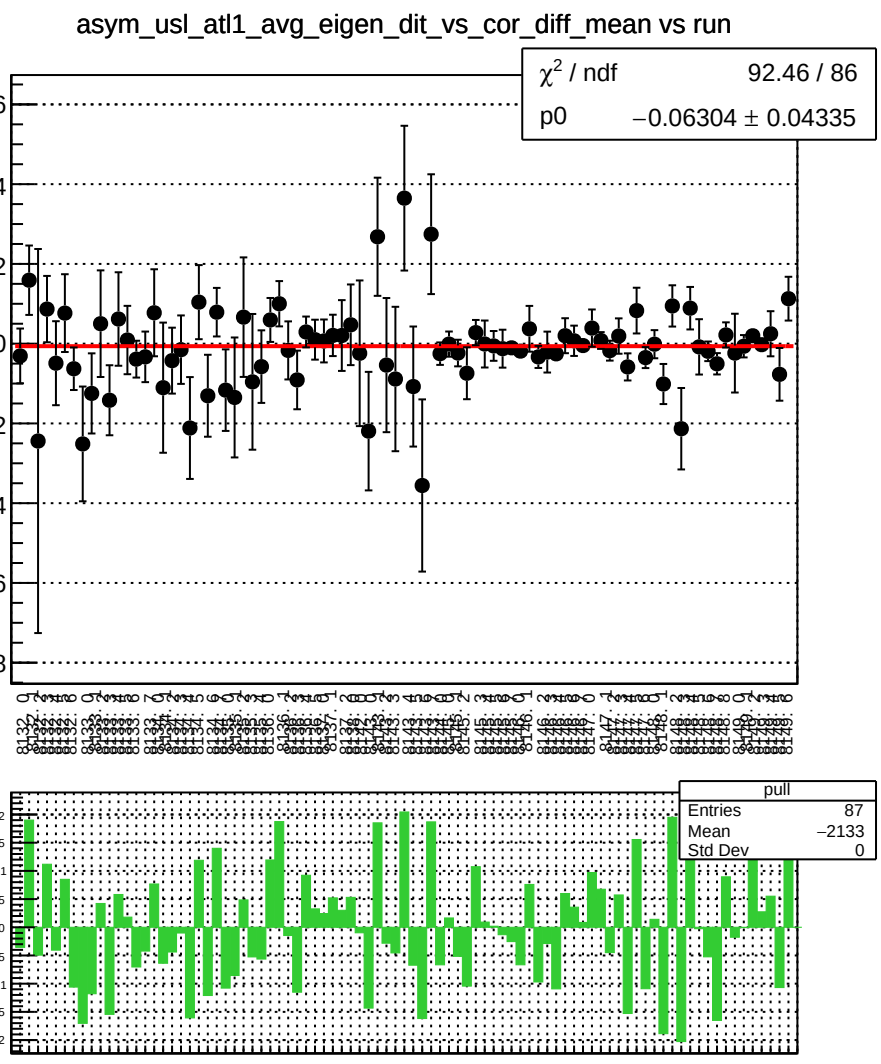

asym_usl_atl1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.786e+05 / 86
p0 32.73 ± 0.03065
500
450
400
350
300
250
200
150
100
50

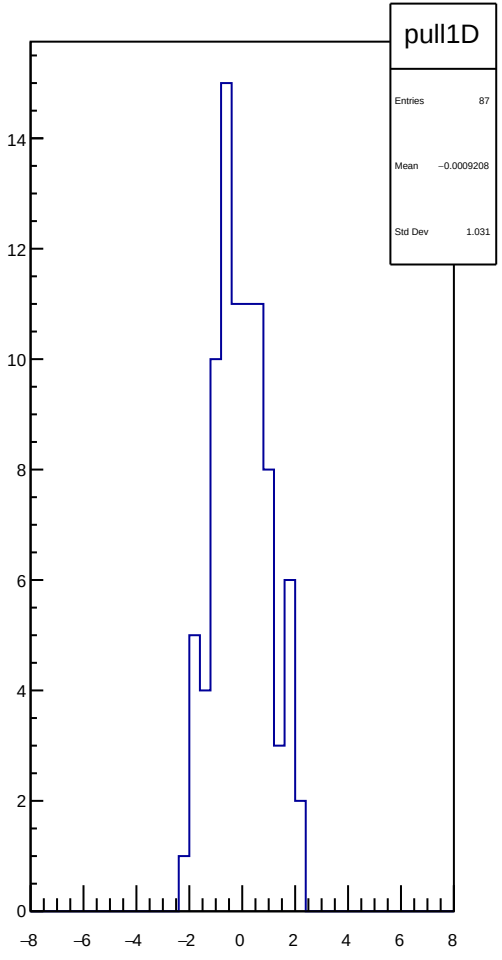

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.46 / 86
p0 −0.06304 ± 0.04335
pull
Entries 87
Mean −2139
Std Dev 0
pull1D
Entries 87
Mean −0.0009182
Std Dev 1.031

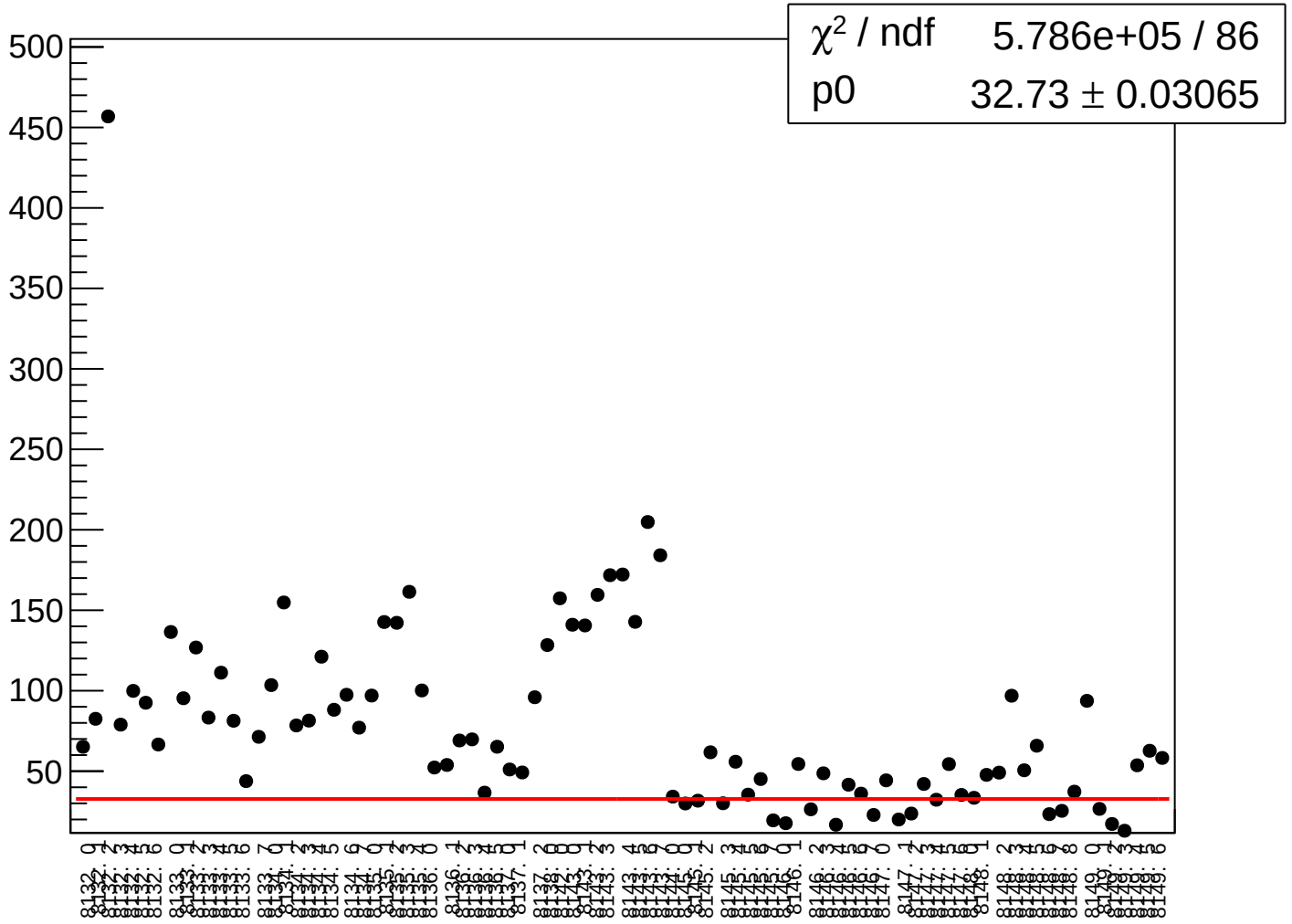

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.786e+05 / 86
p0 32.73 ± 0.03065
500
450
400
350
300
250
200
150
100
50

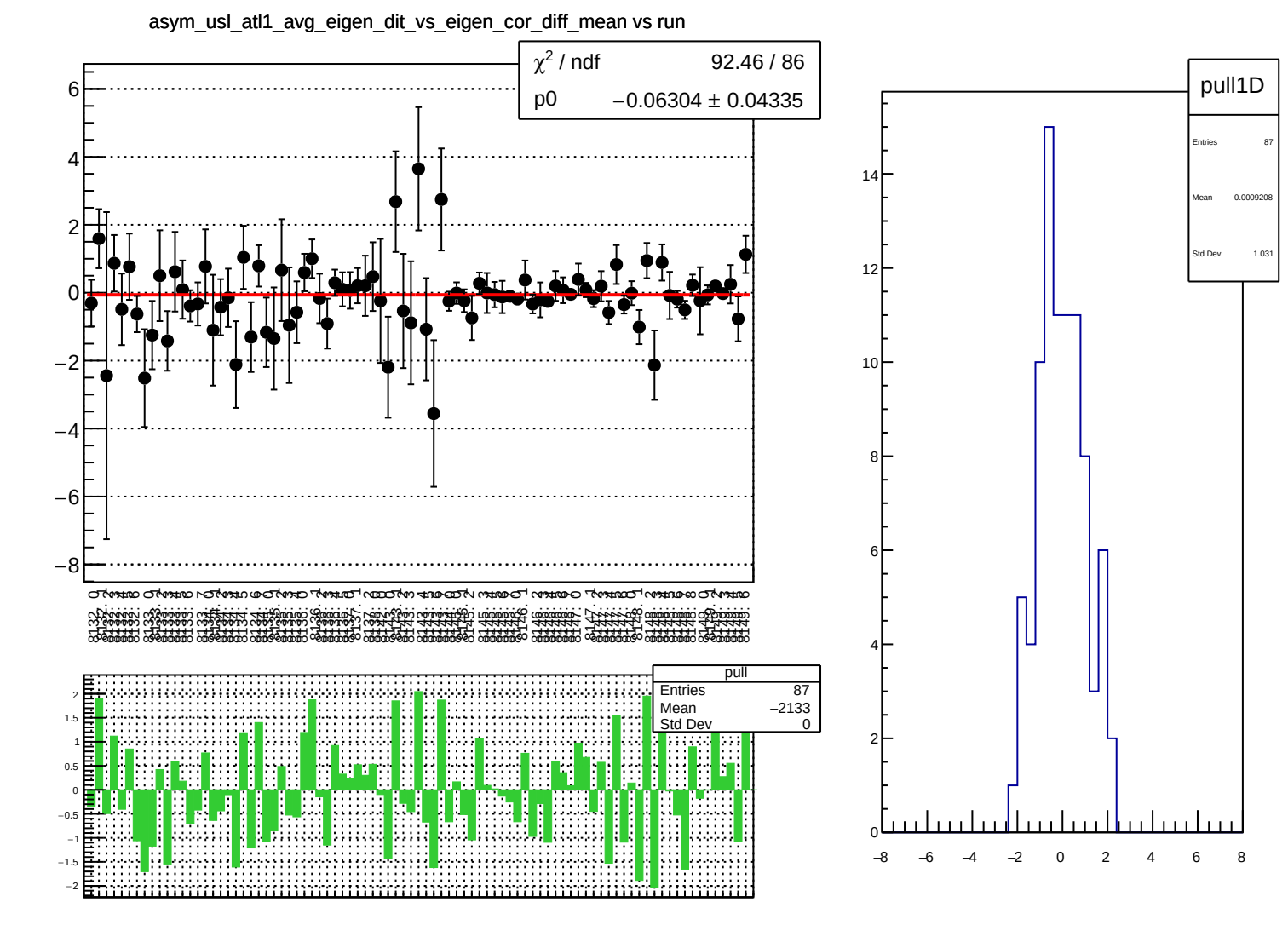

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 92.73 / 86
p0 −5.174e−07 ± 1.634e−06
pull
Entries 87
Mean 3.506
Std Dev 0
pull1D
Entries 87
Mean −0.09344
Std Dev 1.028

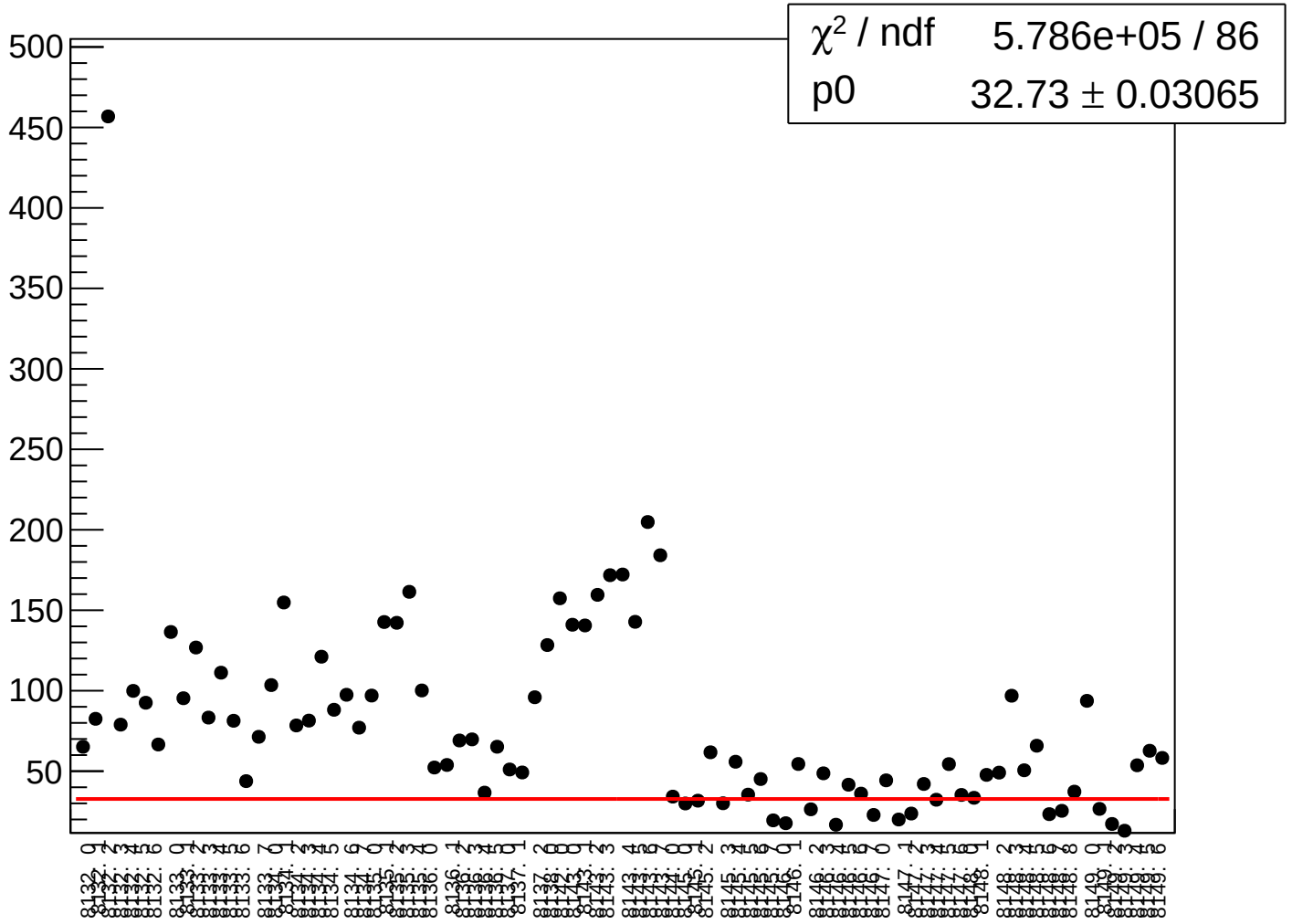

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.707e+05 / 86
p0 0.001238 ± 1.155e−06
0.014
0.012
0.01
0.008
0.006
0.004
0.002

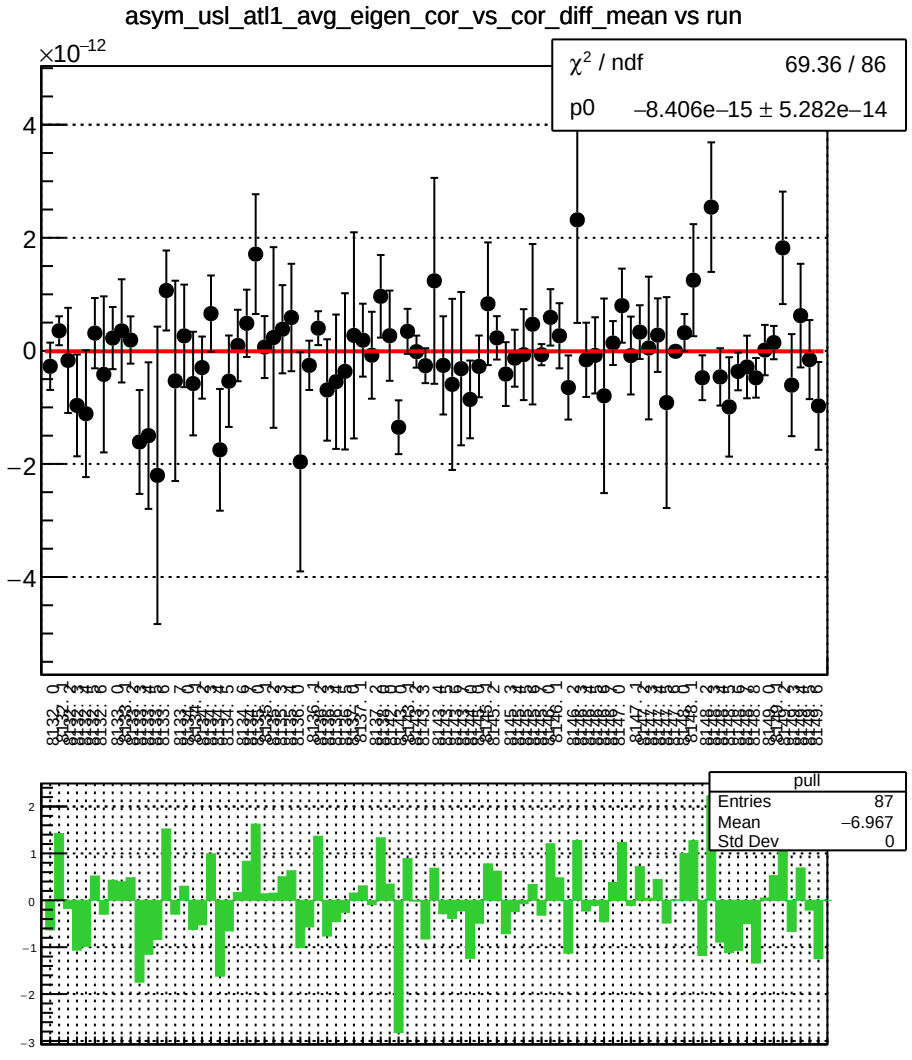

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.46 / 86
p0 −0.06304 ± 0.04335
pull
Entries 87
Mean −2133
Std Dev 0

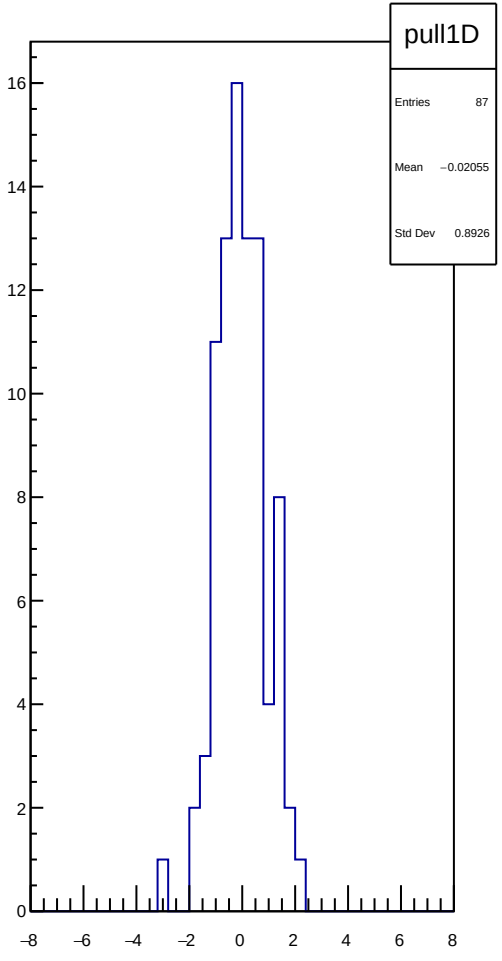

pull1D
Entries 87
Mean −0.0009208
Std Dev 1.031

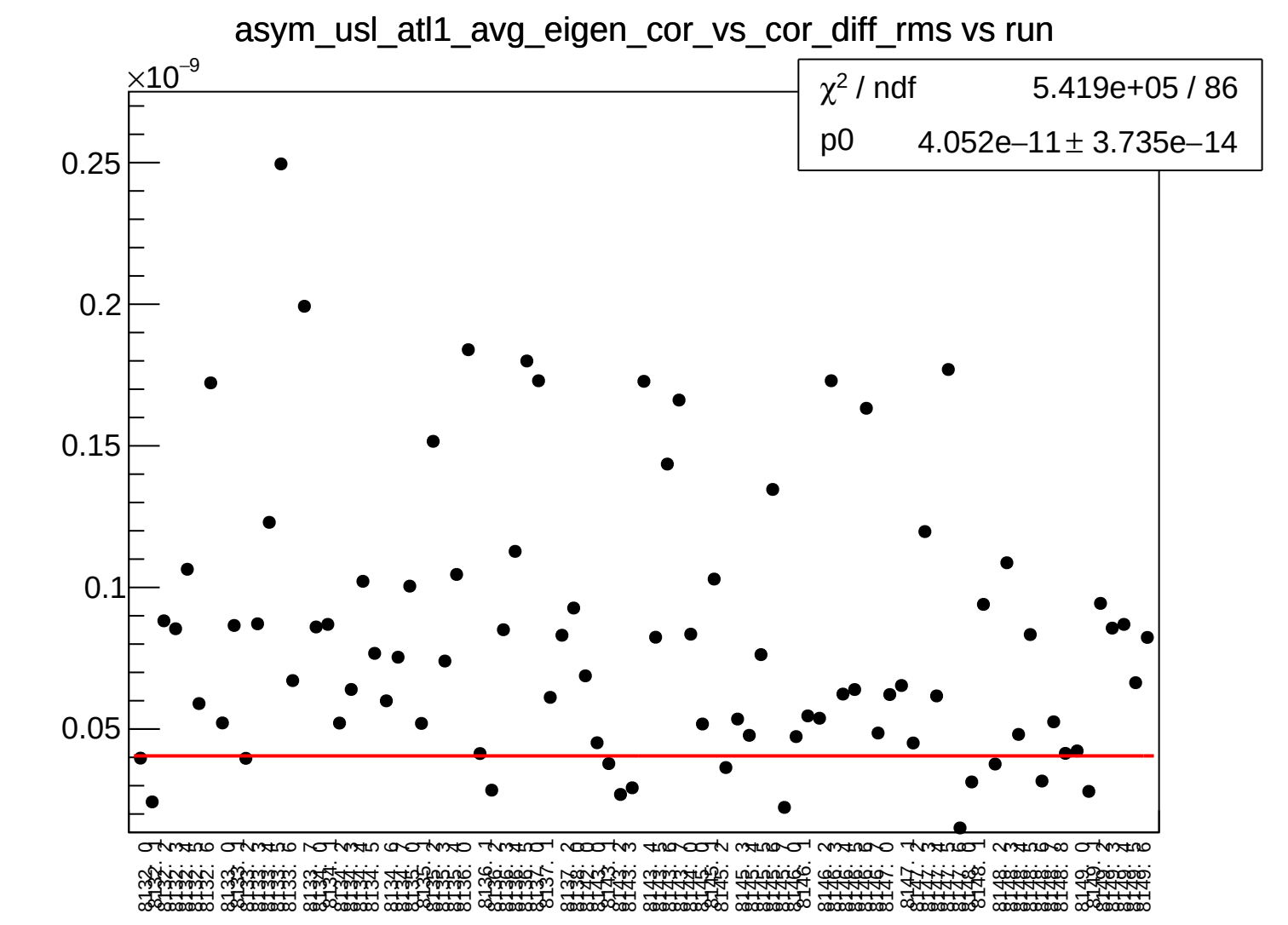

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.786e+05 / 86
p0 32.73 ± 0.03065
500
450
400
350
300
250
200
150
100
50

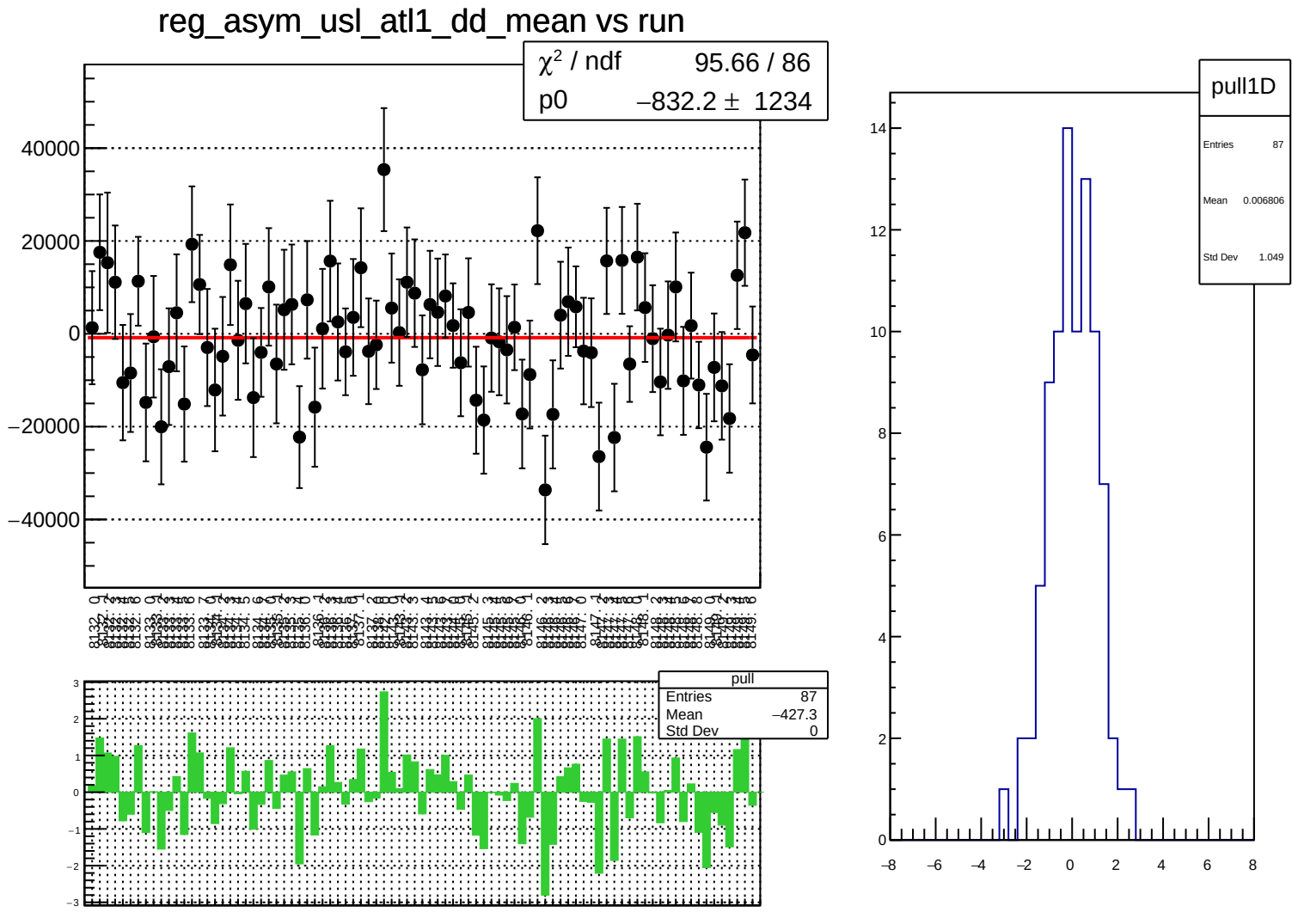

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.46 / 86
p0 −0.06304 ± 0.04335
pull
Entries 87
Mean −2133
Std Dev 0
pull1D
Entries 87
Mean −0.0009208
Std Dev 1.031

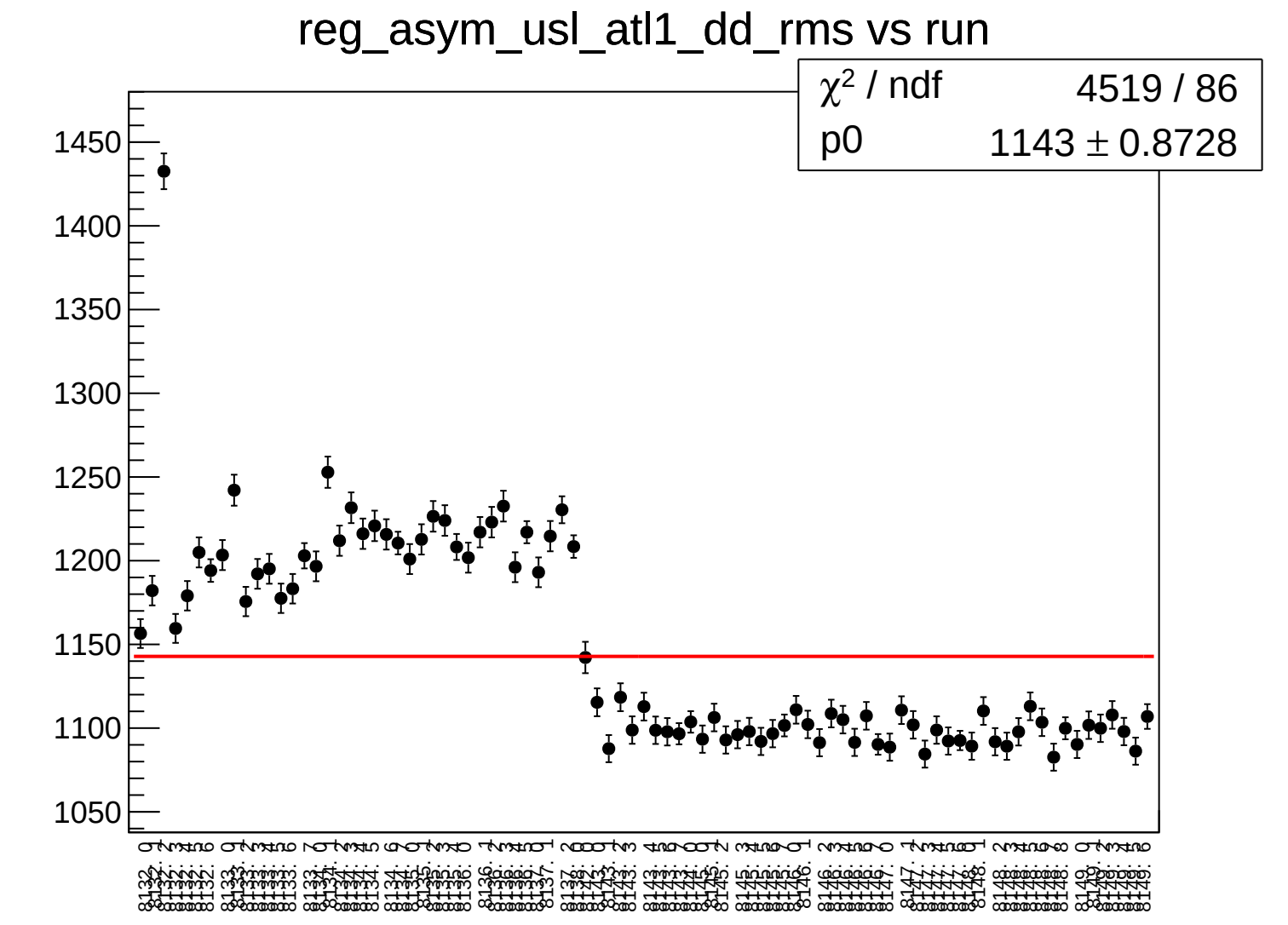

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.786e+05 / 86
p0 32.73 ± 0.03065
500
450
400
350
300
250
200
150
100
50

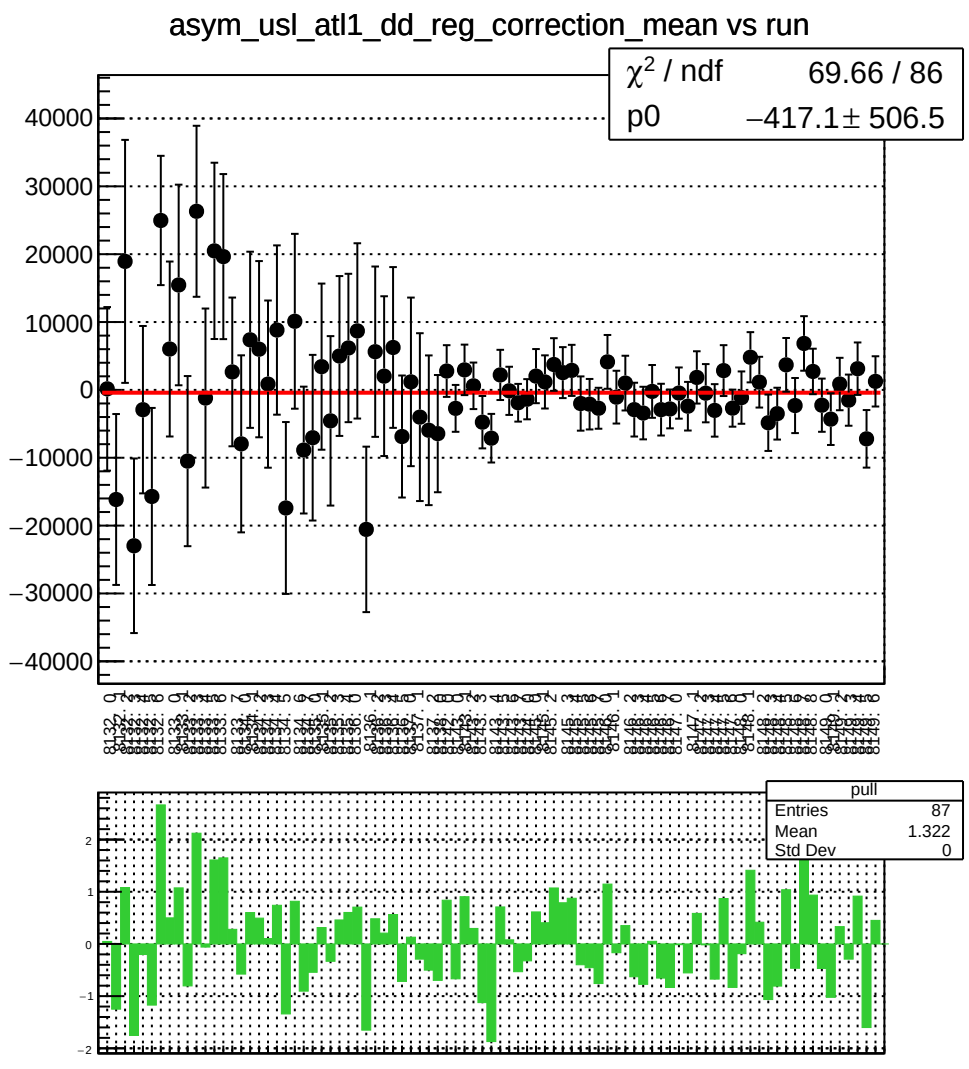

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 69.36 / 86
p0 −8.406e−15 ± 5.282e−14
pull
Entries 87
Mean −6.967
Std Dev 0

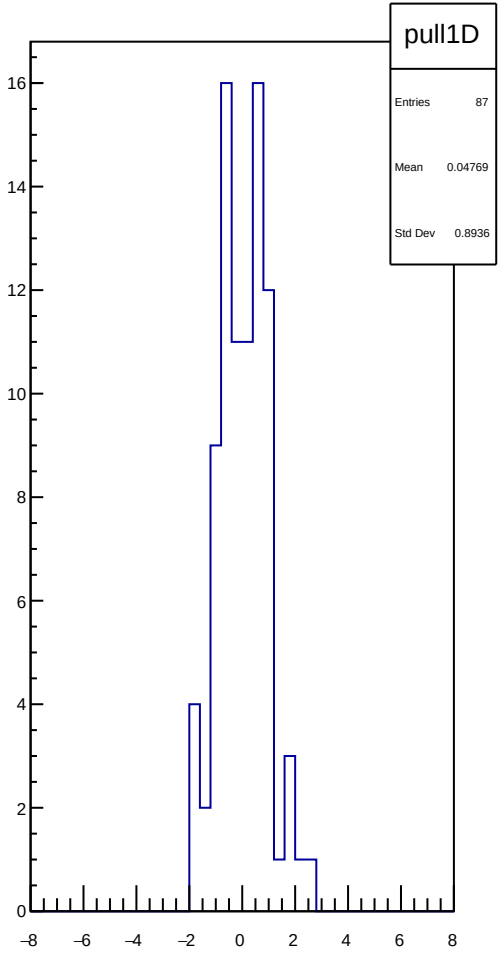

pull1D
Entries 87
Mean −0.02055
Std Dev 0.8926

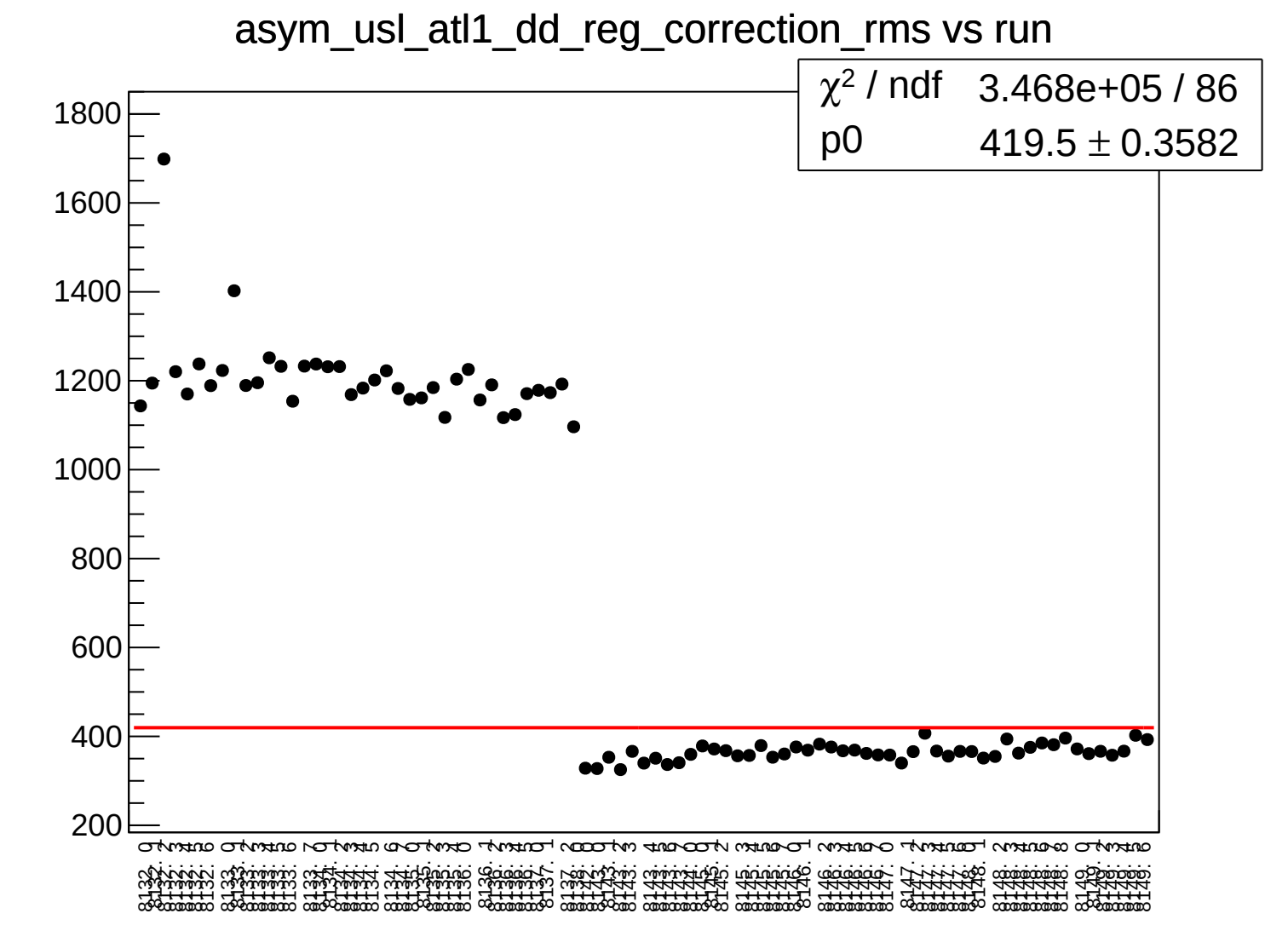

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.419e+05 / 86
p0 4.052e−11 ± 3.735e−14
0.25
0.2
0.15
0.1
0.05

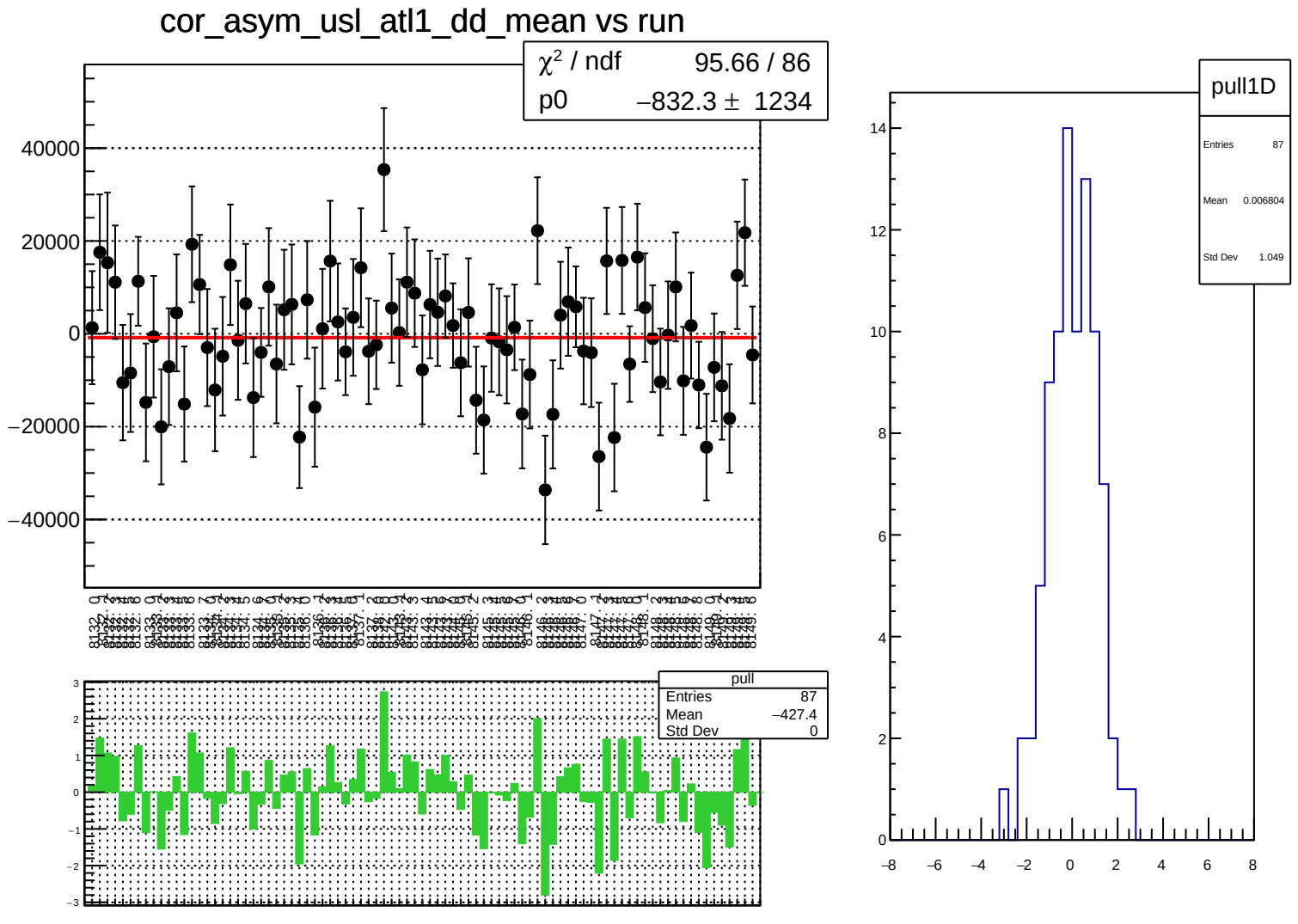

reg_asym_usl_atl1_dd_mean vs run
χ² / ndf 95.66 / 86
p0 −832.2 ± 1234
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −427.3
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean 0.006806
Std Dev 1.049
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

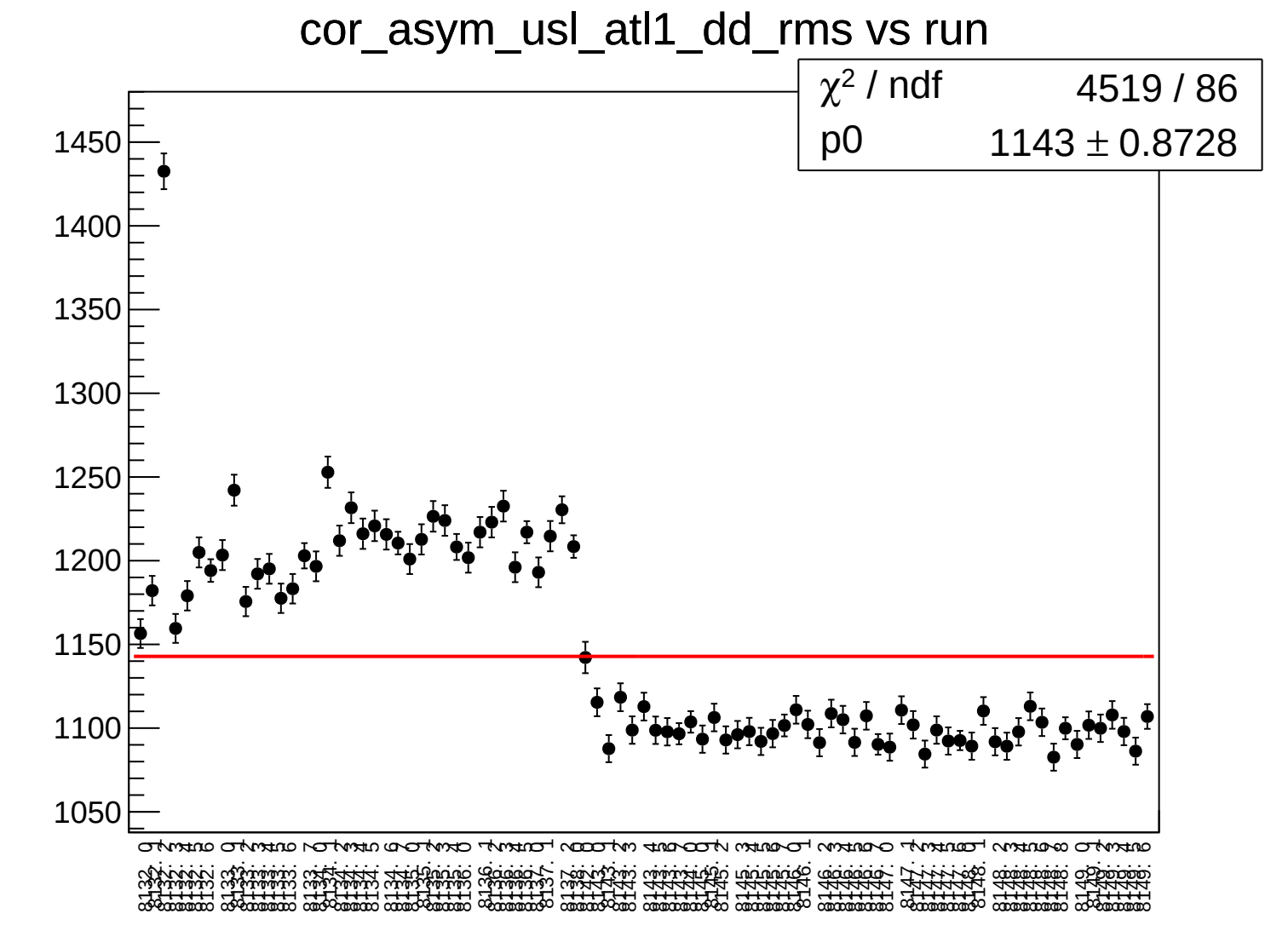

reg_asym_usl_atl1_dd_rms vs run
χ² / ndf 4519 / 86
p0 1143 ± 0.8728
1450
1400
1350
1300
1250
1200
1150
1100
1050

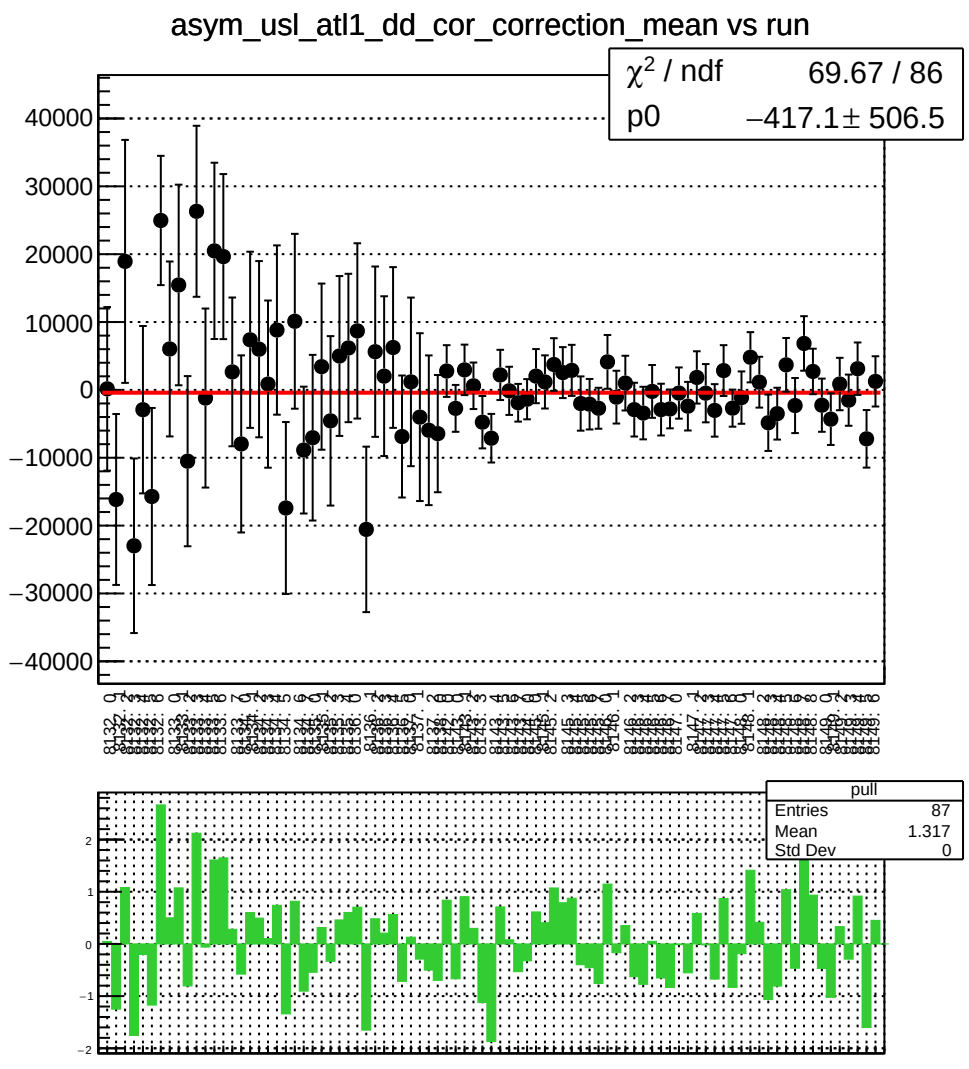

asym_usl_atl1_dd_reg_correction_mean vs run
χ² / ndf 69.66 / 86
p0 −417.1 ± 506.5
pull
Entries 87
Mean 1.322
Std Dev 0

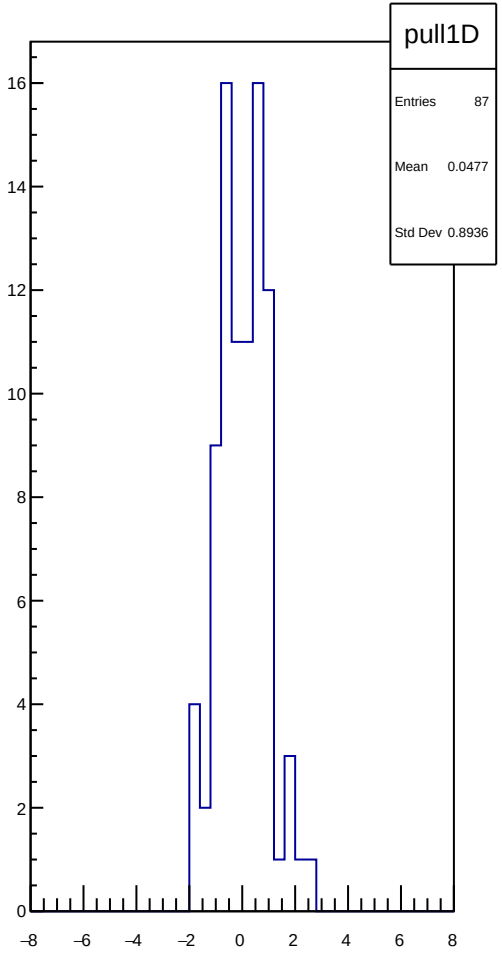

pull1D
Entries 87
Mean 0.04769
Std Dev 0.8936

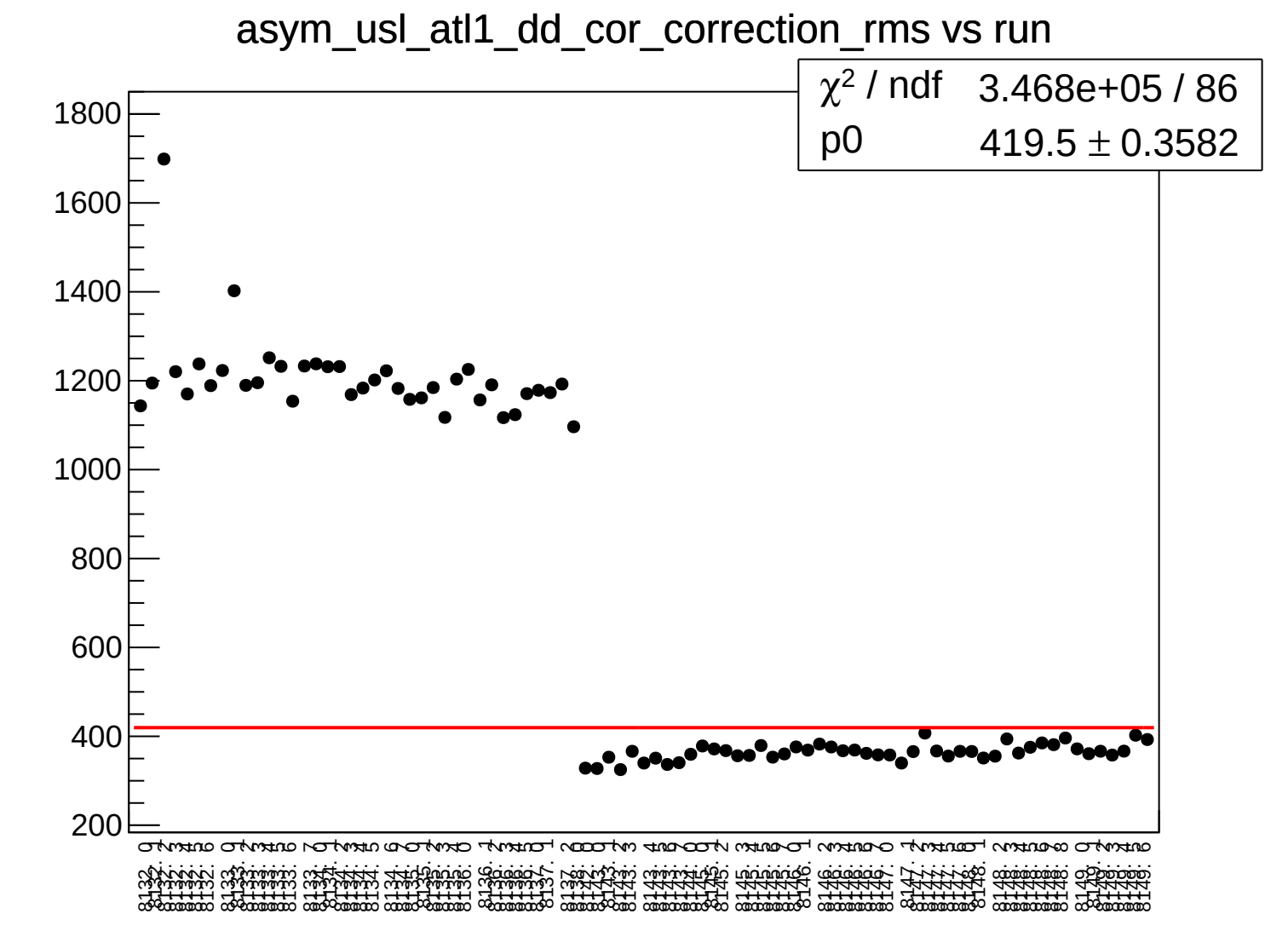

asym_usl_atl1_dd_reg_correction_rms vs run
χ² / ndf 3.468e+05 / 86
p0 419.5 ± 0.3582
1800
1600
1400
1200
1000
800
600
400
200

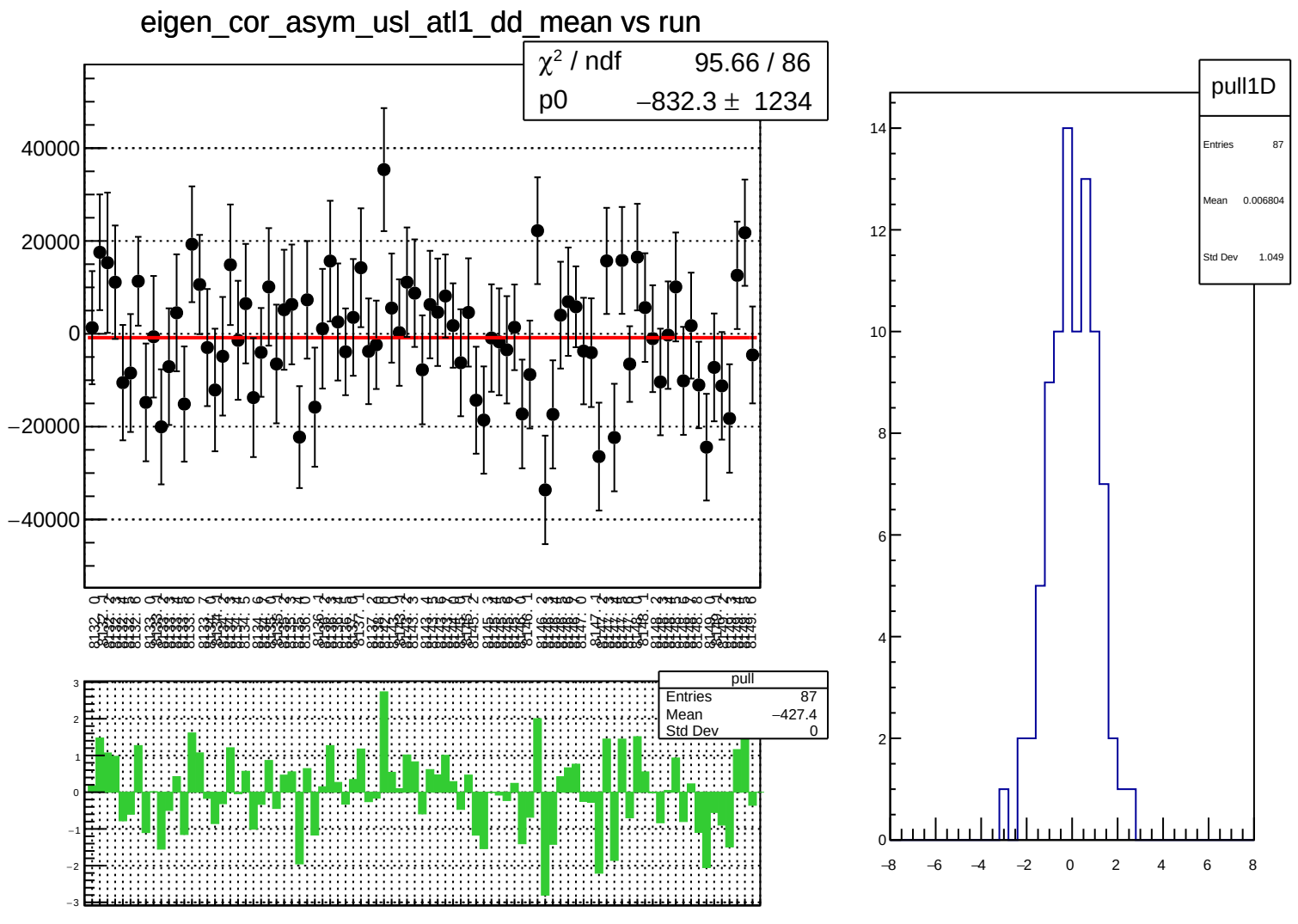

cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 95.66 / 86
p0 −832.3 ± 1234
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −427.4
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean 0.006804
Std Dev 1.049
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

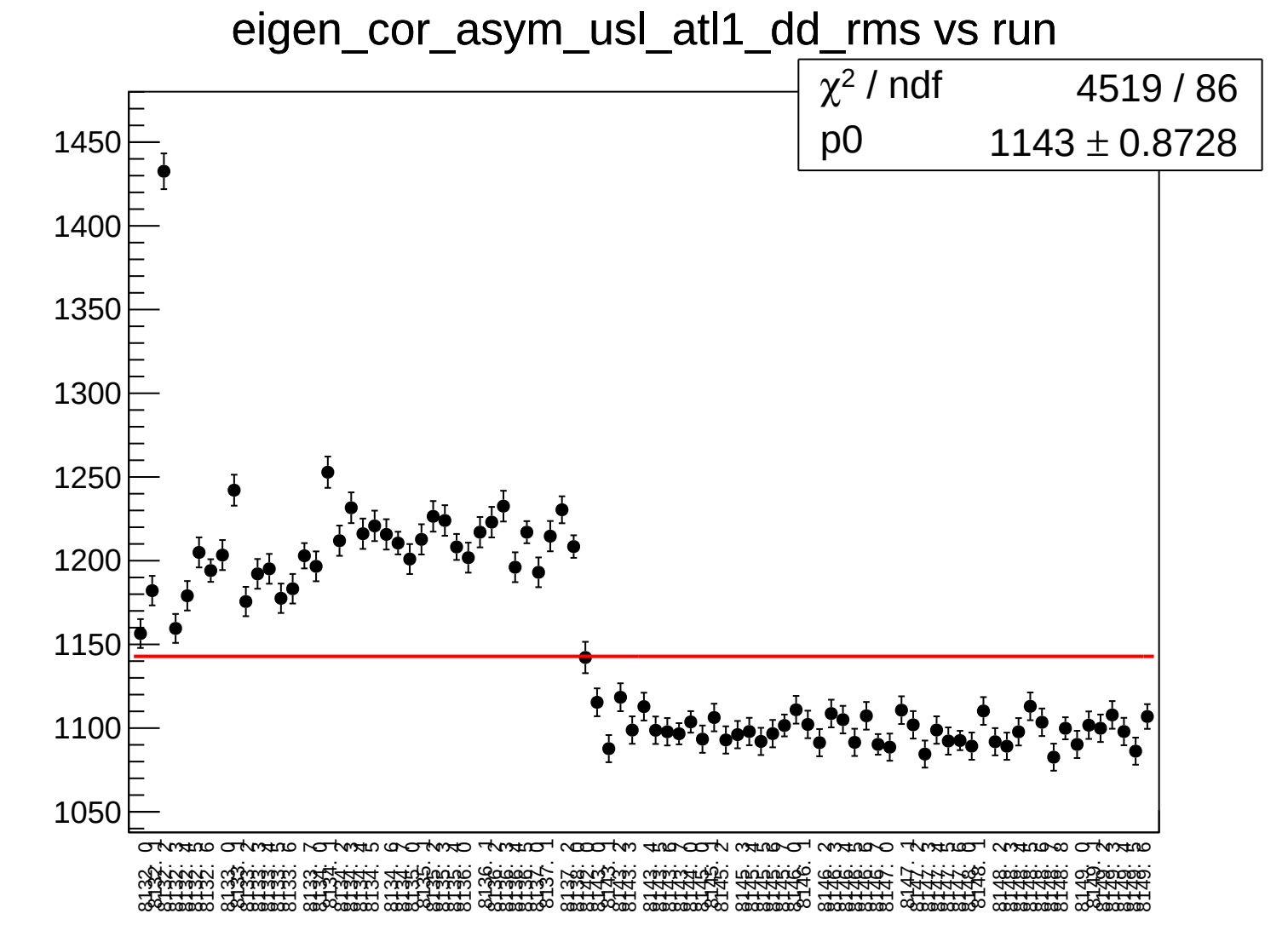

cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 4519 / 86
p0 1143 ± 0.8728
1450
1400
1350
1300
1250
1200
1150
1100
1050

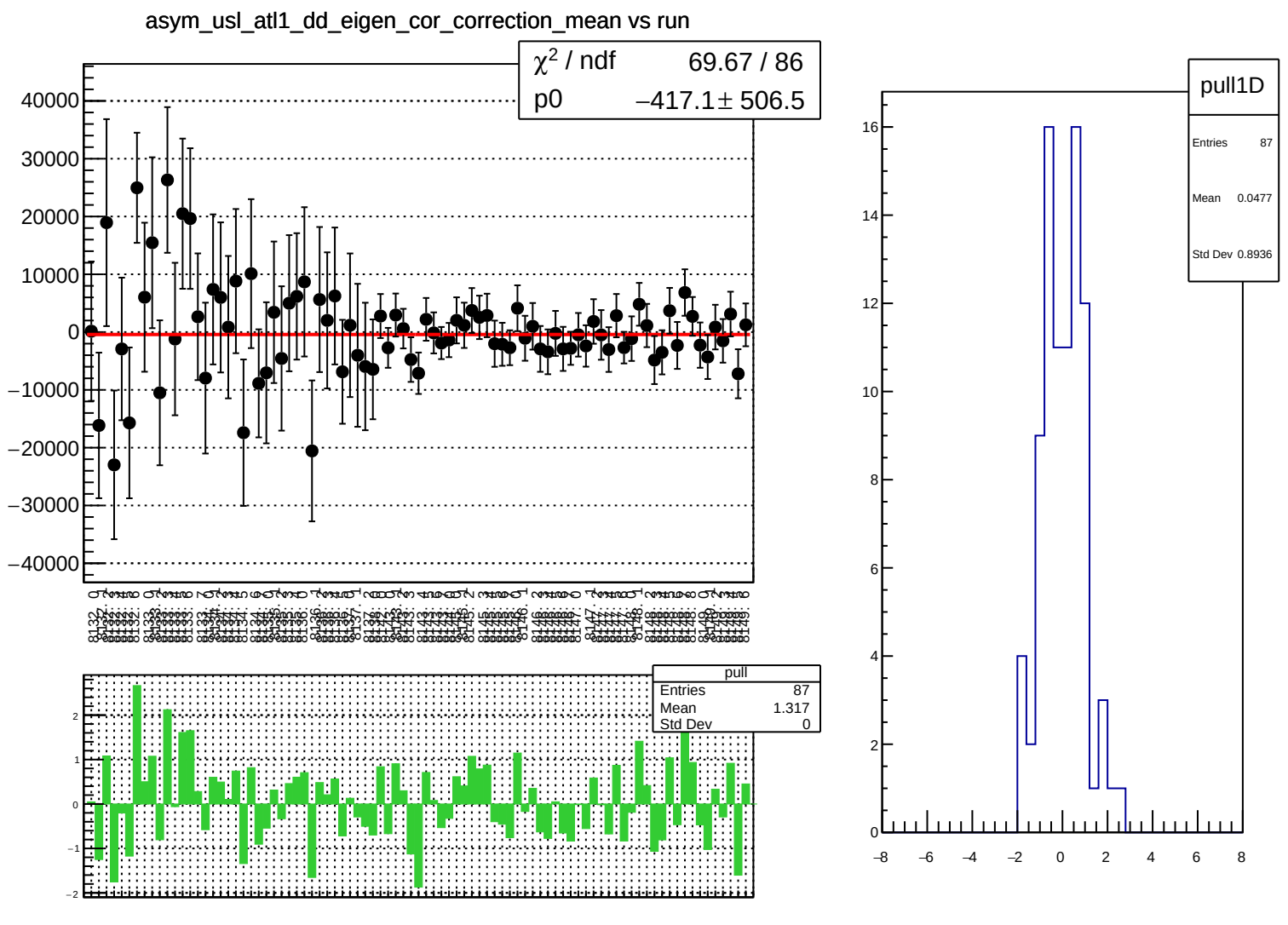

asym_usl_atl1_dd_cor_correction_mean vs run
χ² / ndf 69.67 / 86
p0 −417.1 ± 506.5
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 87
Mean 1.317
Std Dev 0
2
1
0
−1
−2

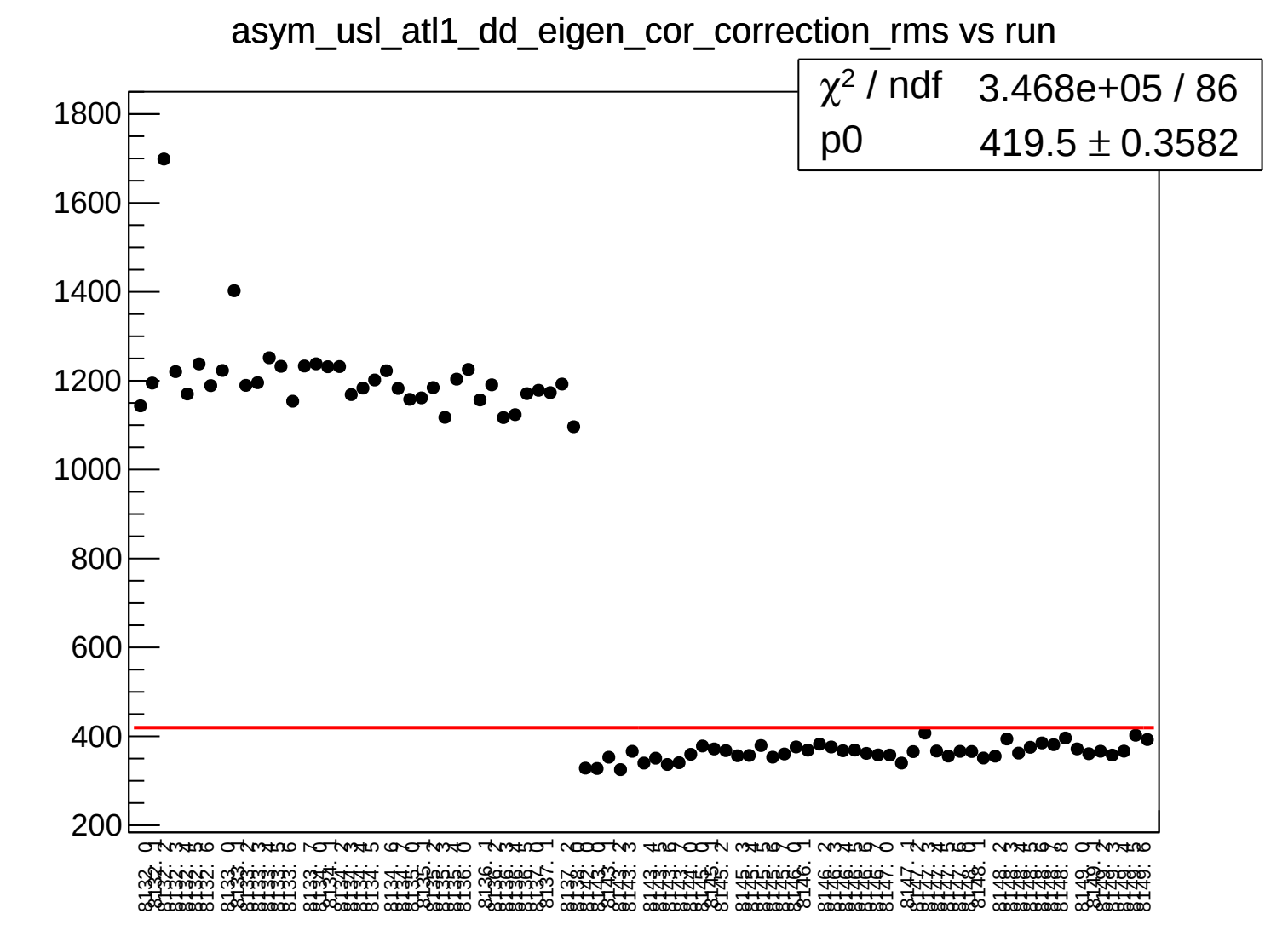

pull1D
Entries 87
Mean 0.0477
Std Dev 0.8936
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

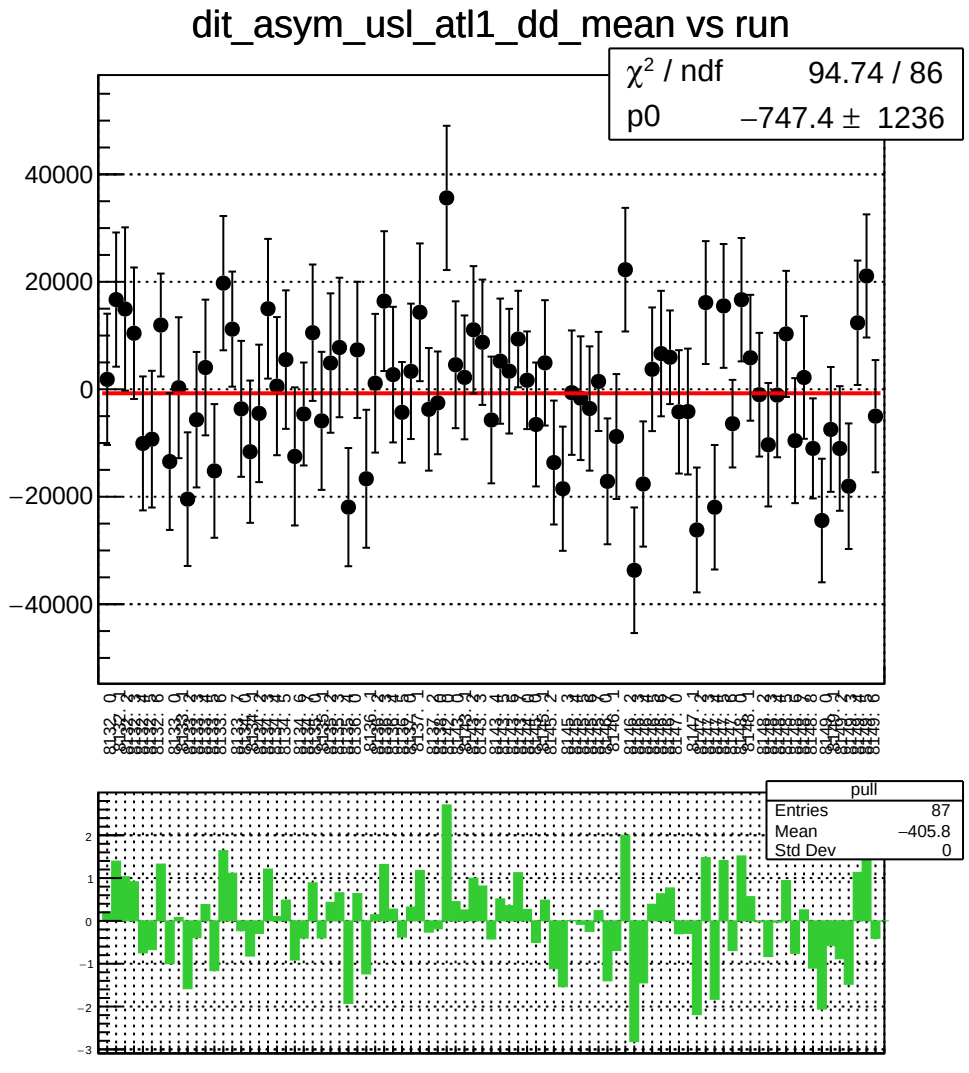

asym_usl_atl1_dd_cor_correction_rms vs run
χ² / ndf 3.468e+05 / 86
p0 419.5 ± 0.3582
1800
1600
1400
1200
1000
800
600
400
200

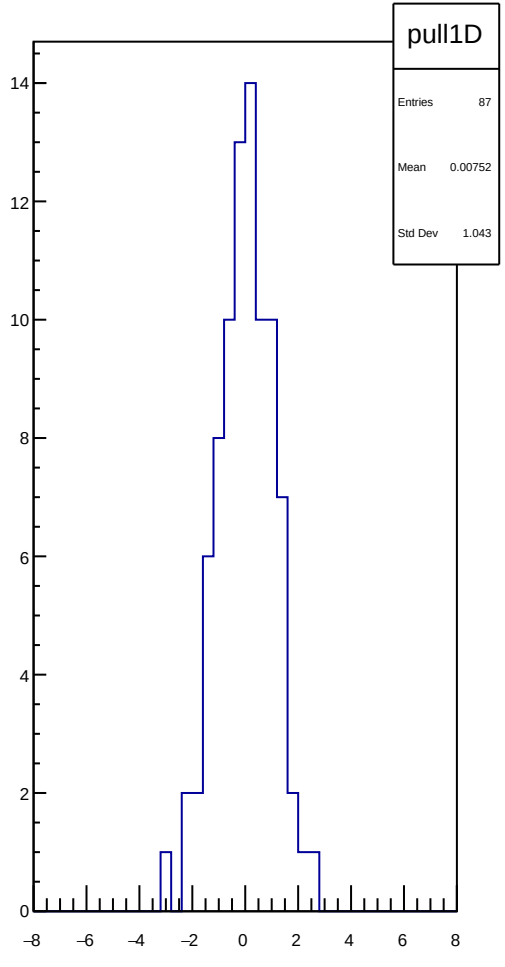

eigen_cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 95.66 / 86
p0 −832.3 ± 1234
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −427.4
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean 0.006804
Std Dev 1.049
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

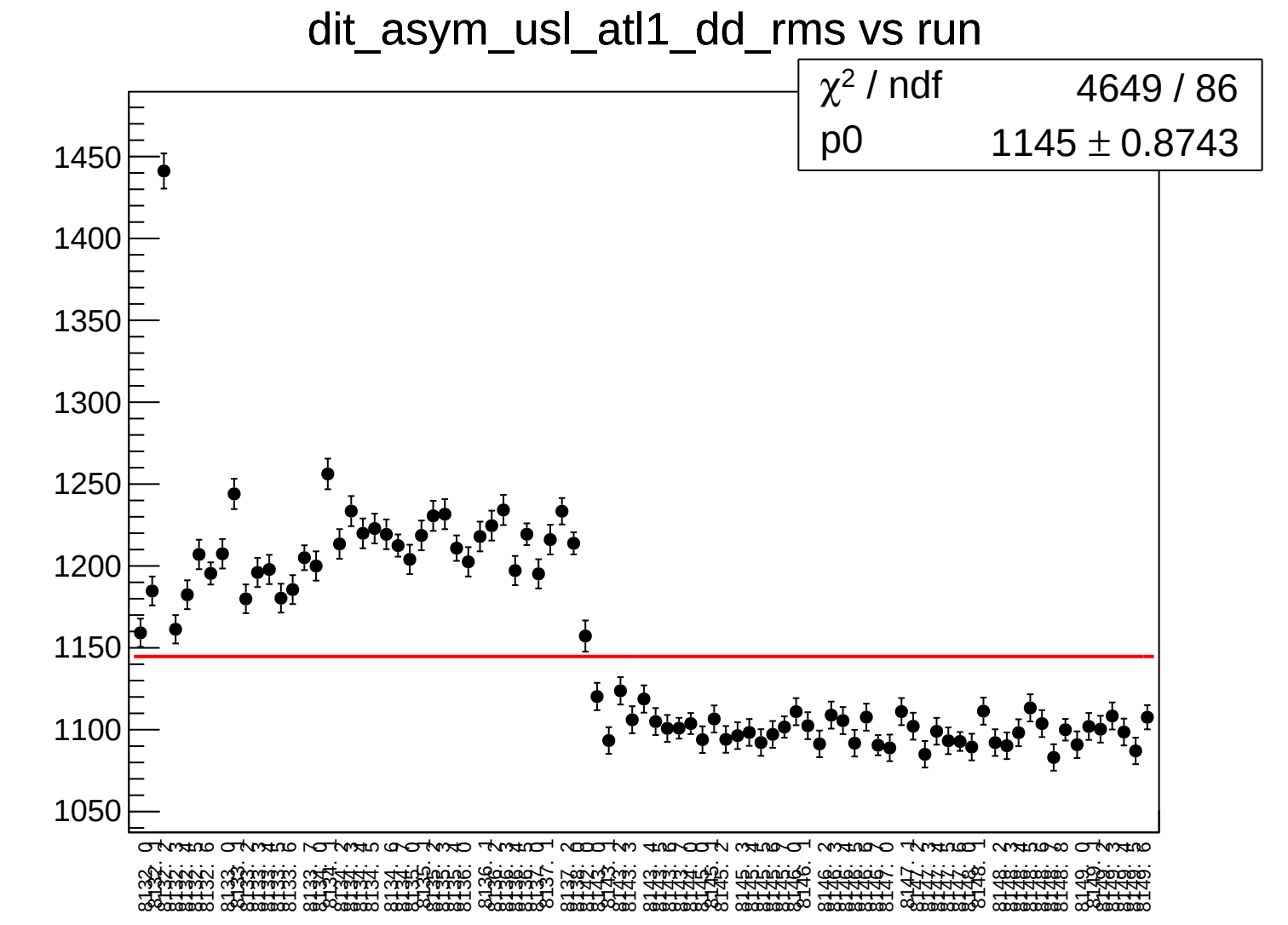

eigen_cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 4519 / 86
p0 1143 ± 0.8728
1450
1400
1350
1300
1250
1200
1150
1100
1050

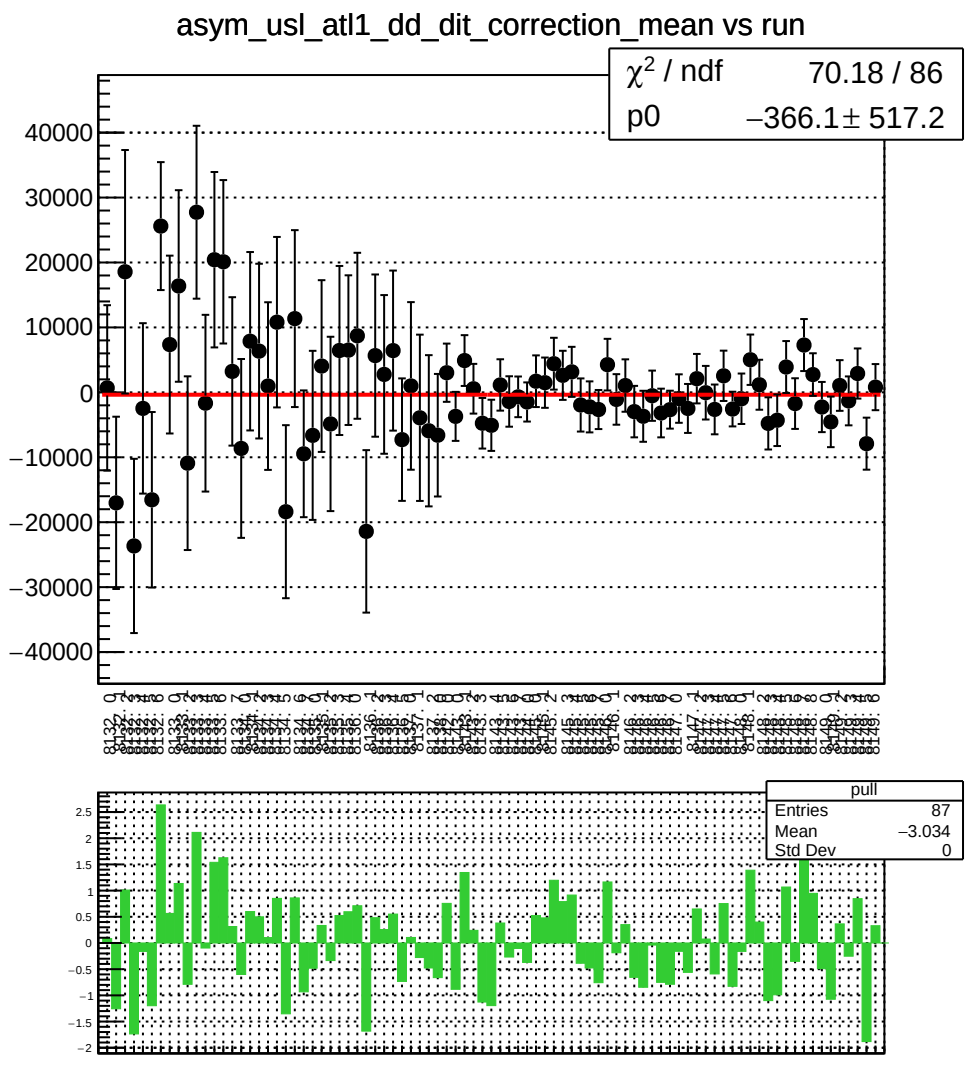

asym_usl_atl1_dd_eigen_cor_correction_mean vs run
χ² / ndf 69.67 / 86
p0 −417.1 ± 506.5
pull
Entries 87
Mean 1.317
Std Dev 0
pull1D
Entries 87
Mean 0.0477
Std Dev 0.8936

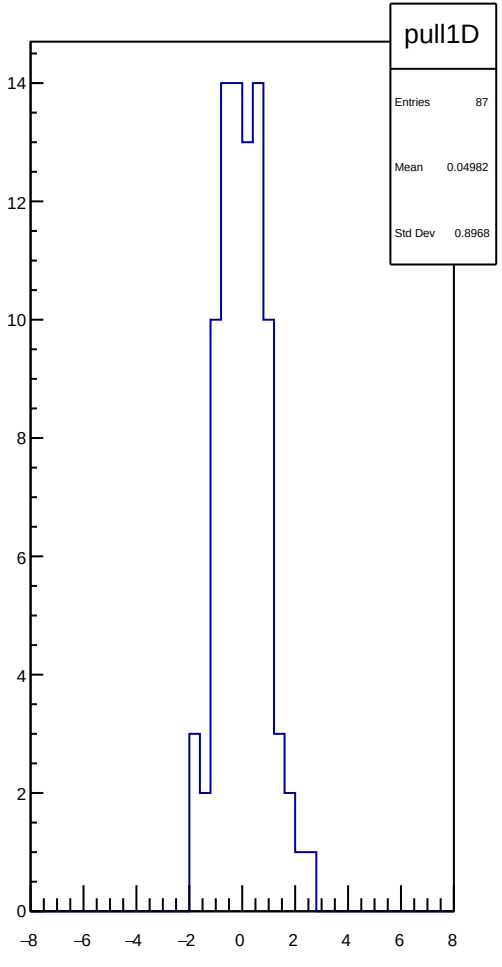

asym_usl_atl1_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.468e+05 / 86
p0 419.5 ± 0.3582
1800
1600
1400
1200
1000
800
600
400
200

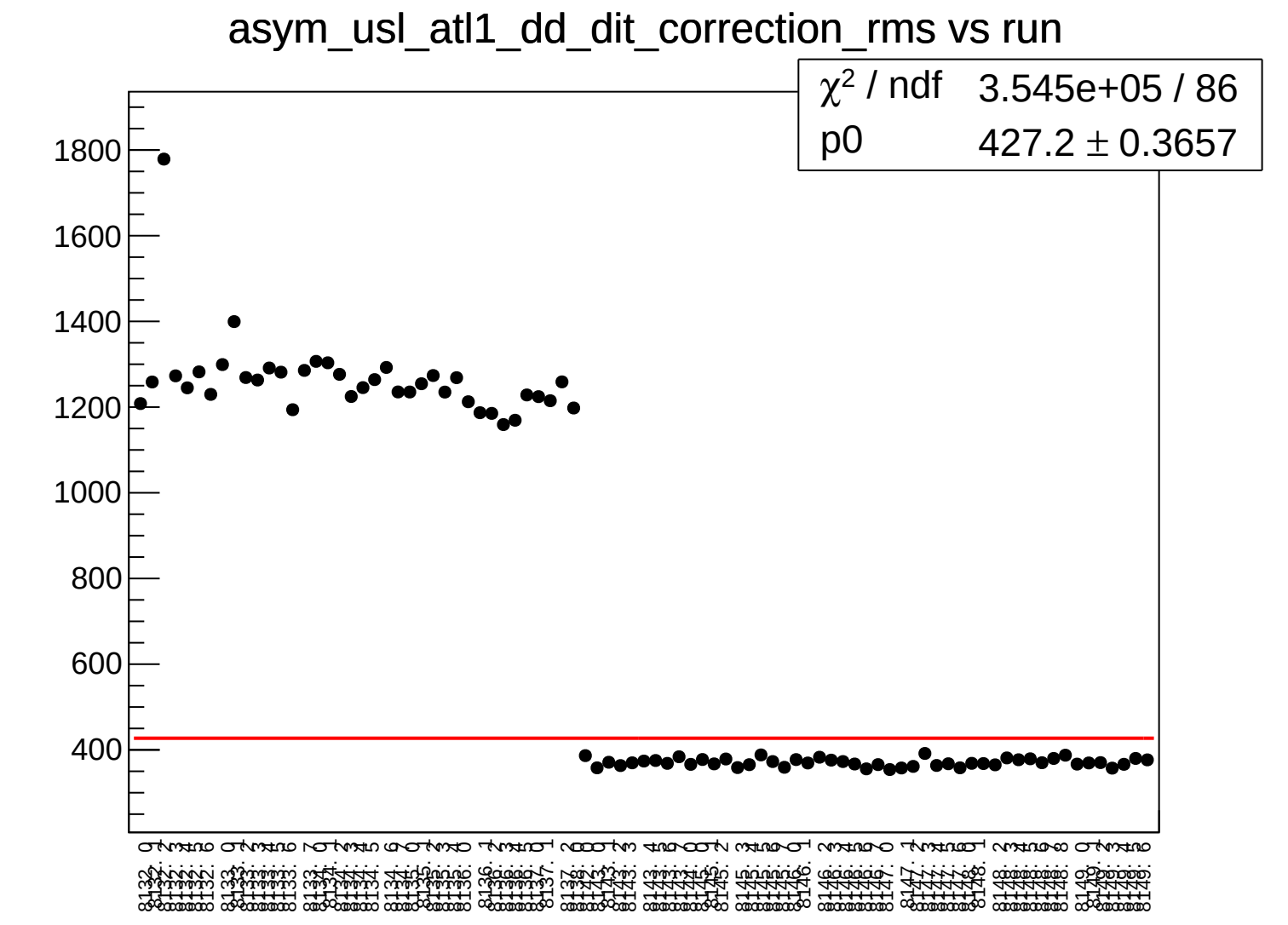

dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 94.74 / 86
p0 −747.4 ± 1236
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −405.8
Std Dev 0
2
1
0
−1
−2
−3

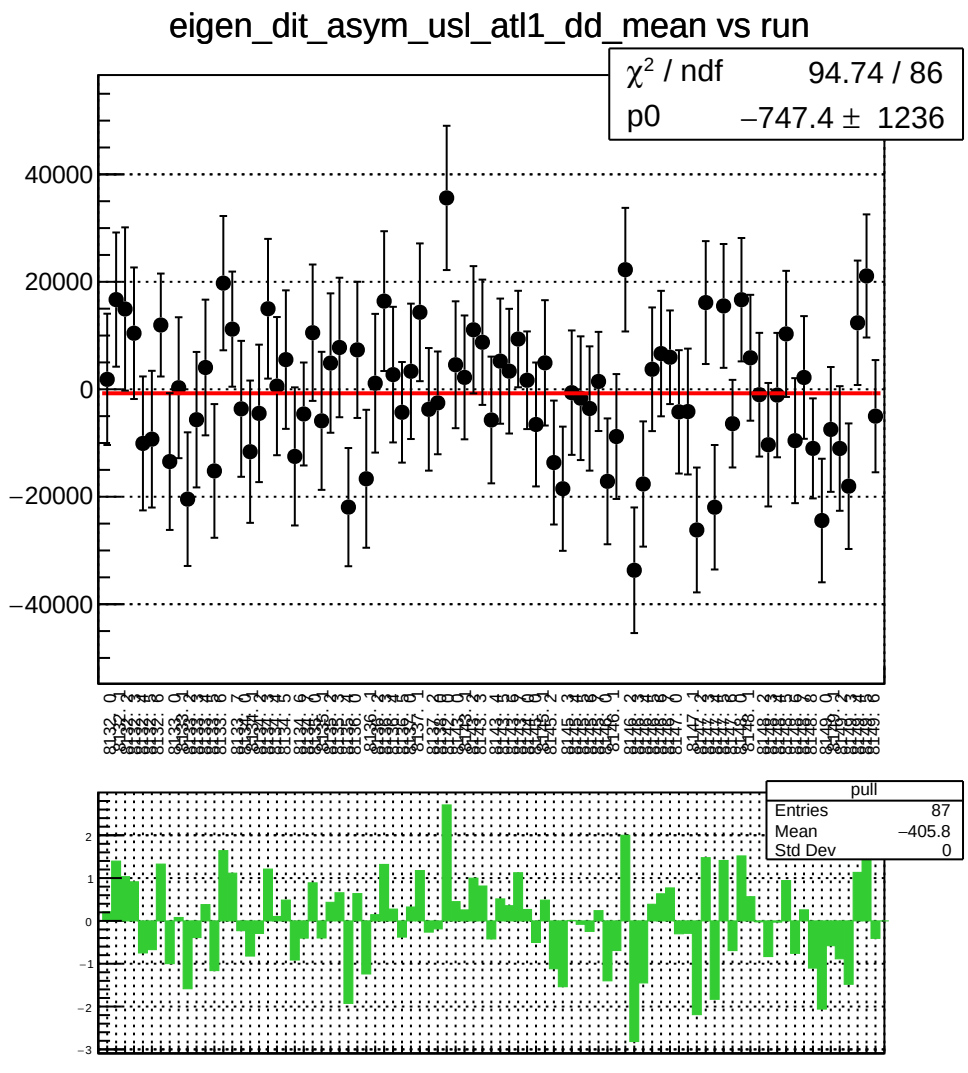

pull1D
Entries 87
Mean 0.00752
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

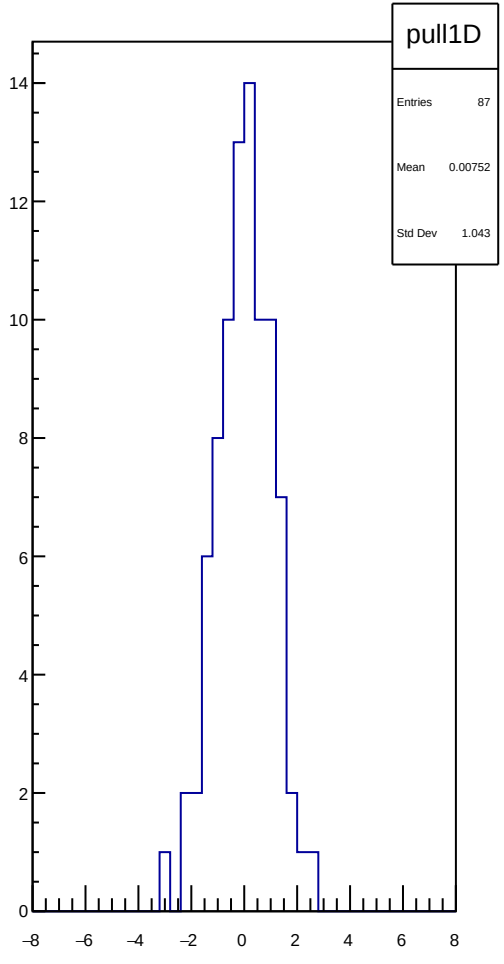

dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 4649 / 86
p0 1145 ± 0.8743
1450
1400
1350
1300
1250
1200
1150
1100
1050

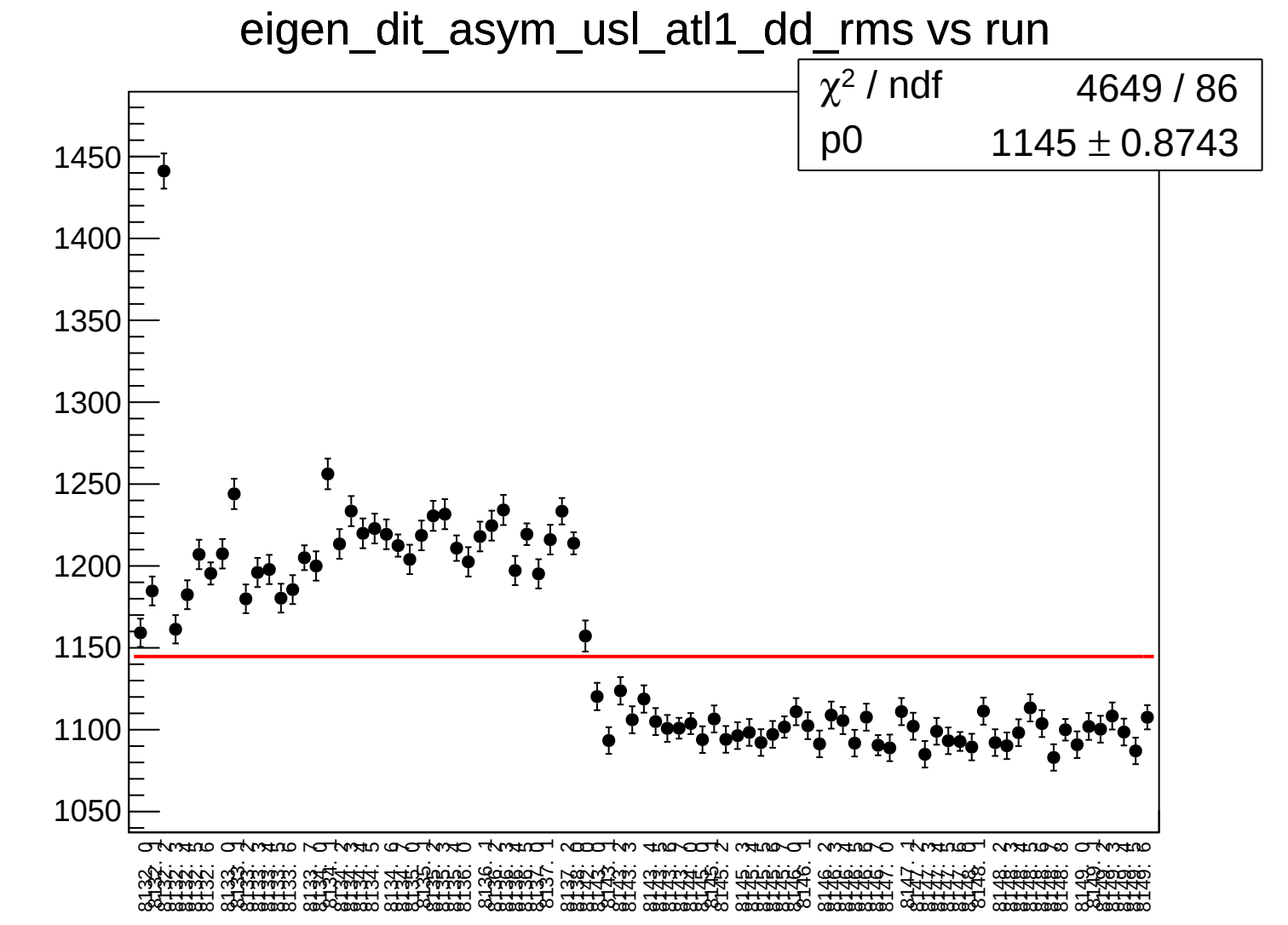

asym_usl_atl1_dd_dit_correction_mean vs run
χ^2 / ndf 70.18 / 86
p0 −366.1 ± 517.2
pull
Entries 87
Mean −3.034
Std Dev 0

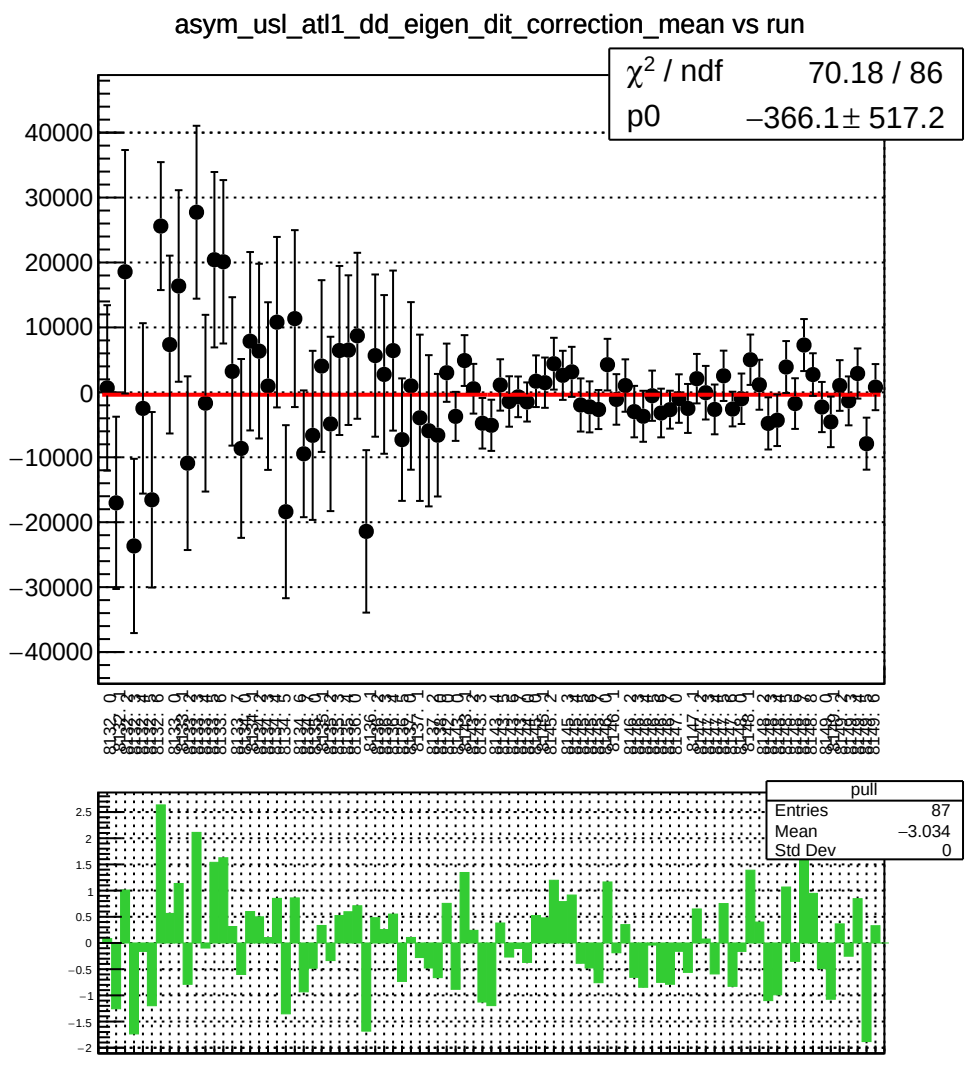

pull1D
Entries 87
Mean 0.04982
Std Dev 0.8968

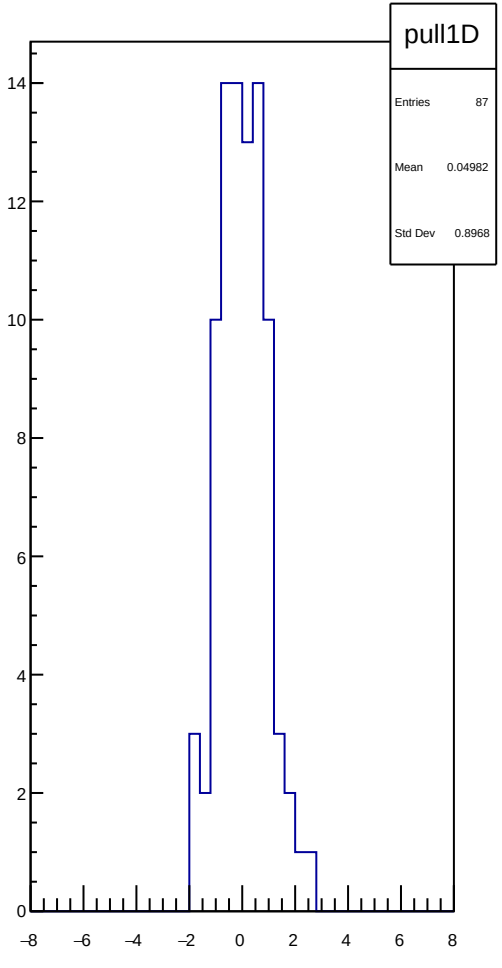

asym_usl_atl1_dd_dit_correction_rms vs run
χ² / ndf 3.545e+05 / 86
p0 427.2 ± 0.3657
1800
1600
1400
1200
1000
800
600
400

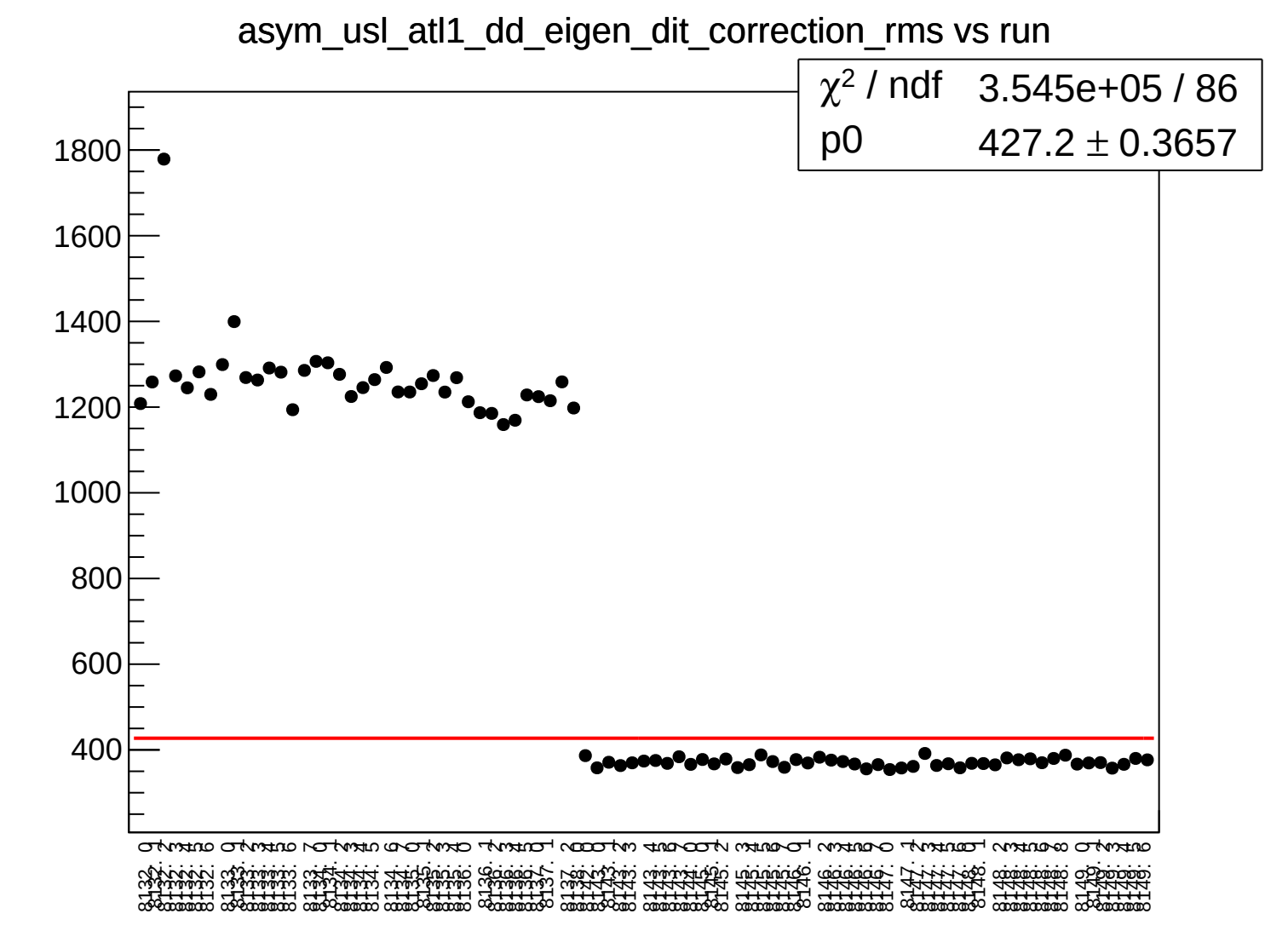

eigen_dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 94.74 / 86
p0 −747.4 ± 1236
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −405.8
Std Dev 0
2
1
0
−1
−2
−3

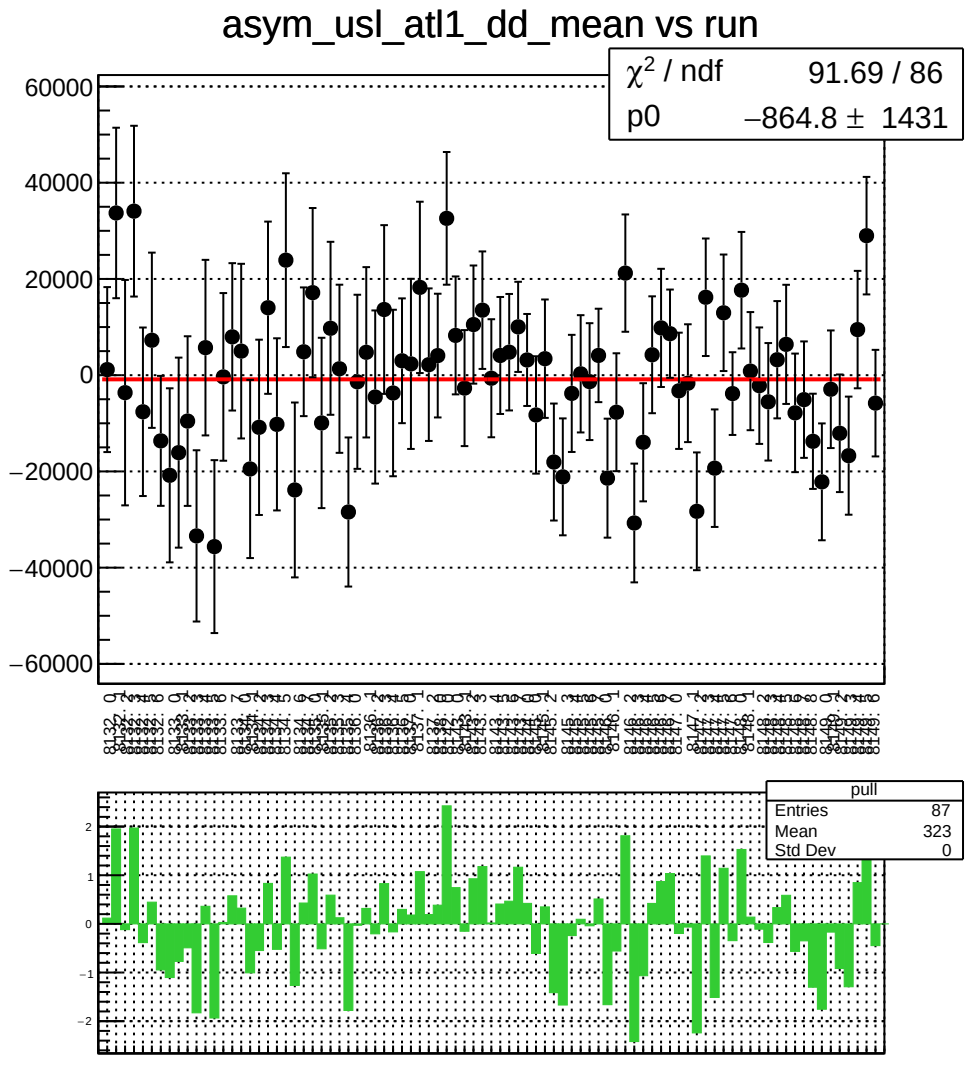

pull1D
Entries 87
Mean 0.00752
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

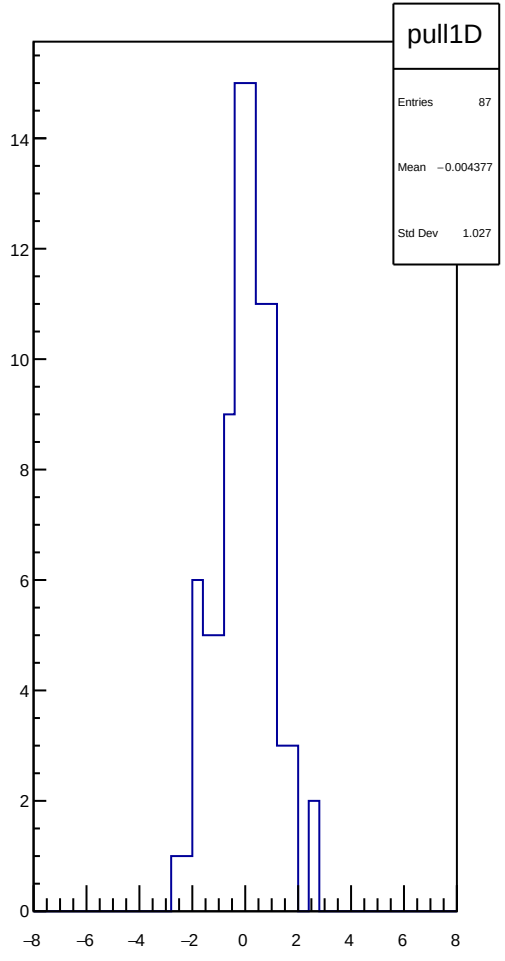

eigen_dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 4649 / 86
p0 1145 ± 0.8743
1450
1400
1350
1300
1250
1200
1150
1100
1050

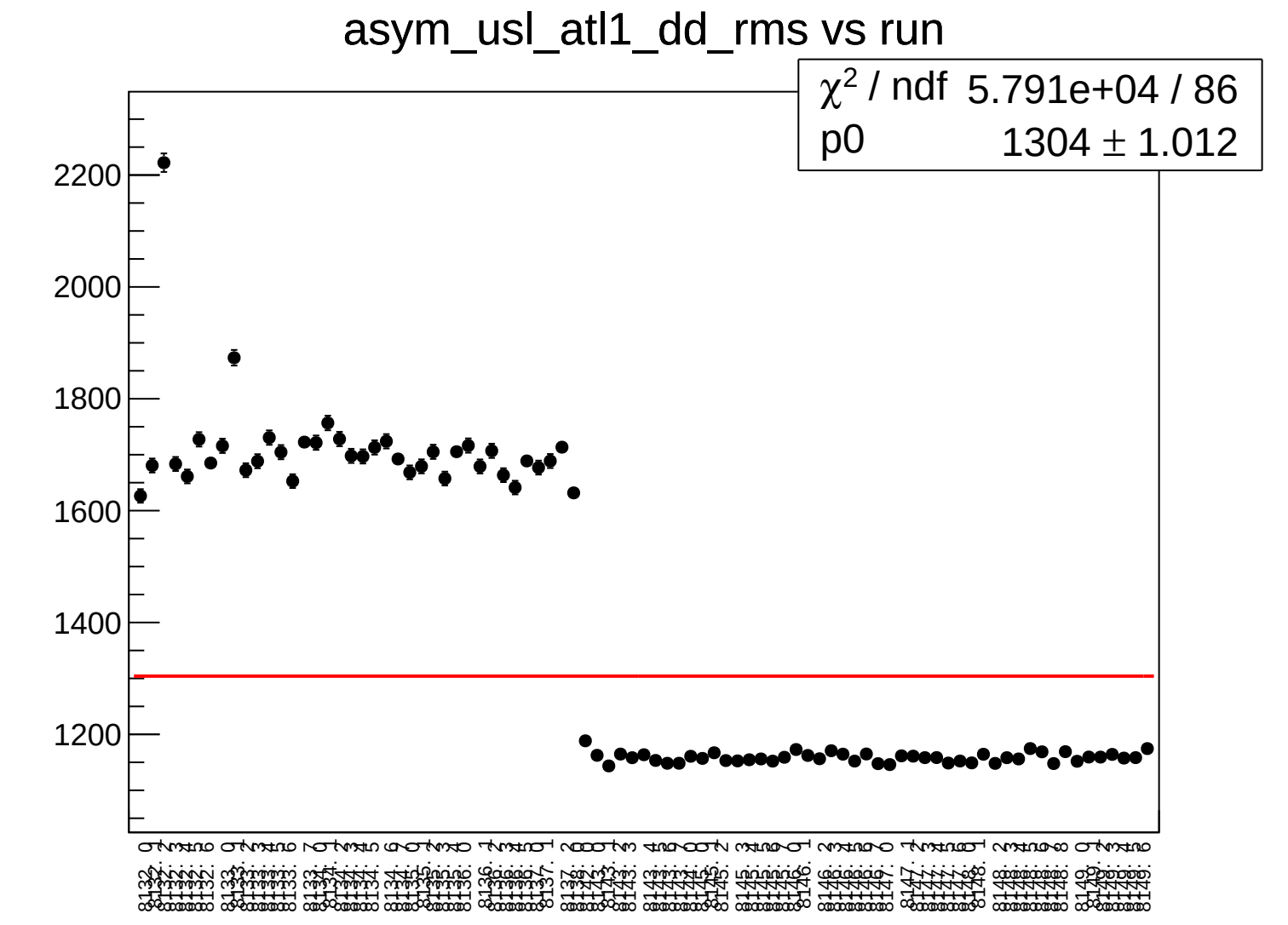

asym_usl_atl1_dd_eigen_dit_correction_mean vs run
χ² / ndf 70.18 / 86
p0 −366.1 ± 517.2
pull
Entries 87
Mean −3.034
Std Dev 0

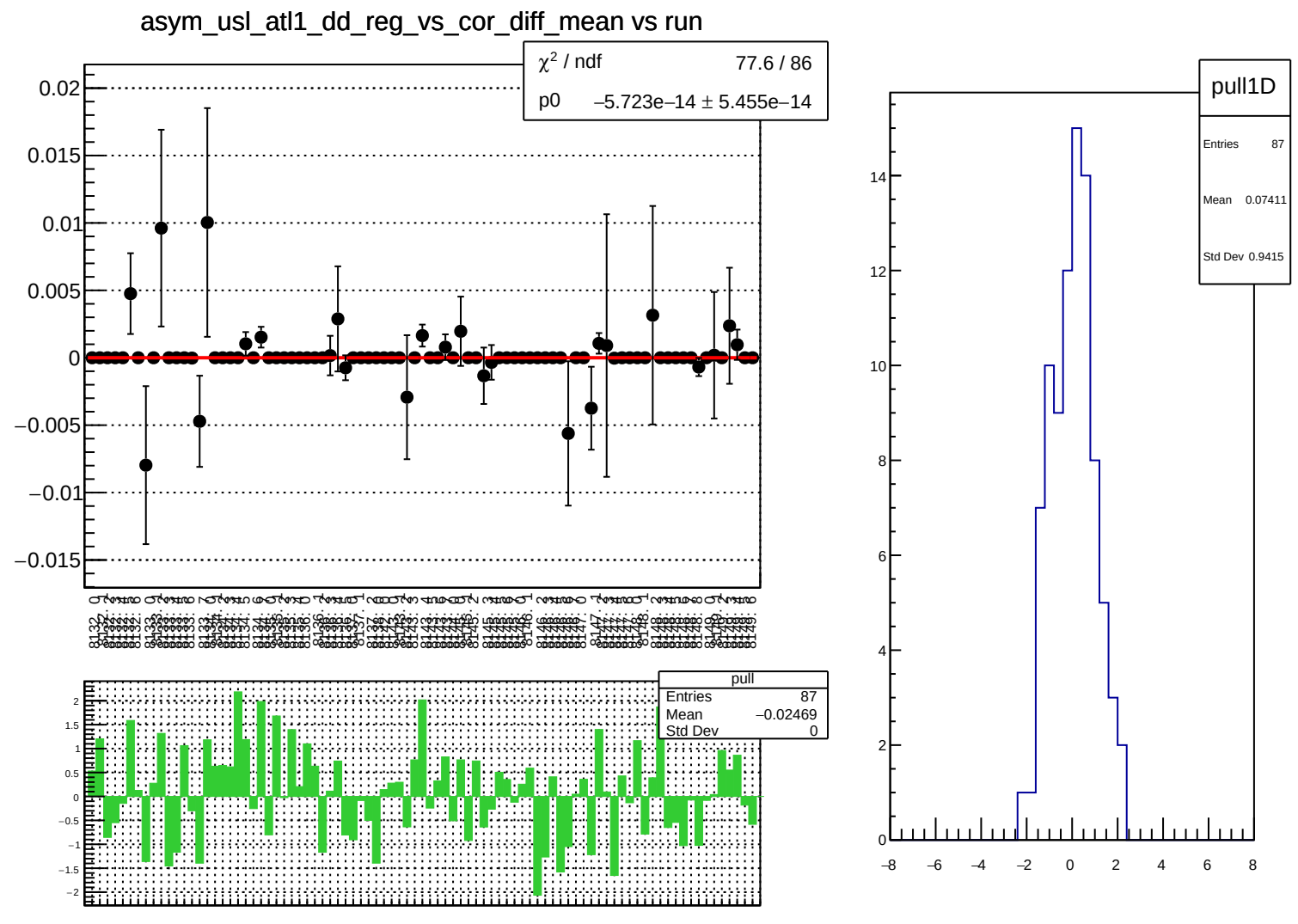

pull1D
Entries 87
Mean 0.04982
Std Dev 0.8968

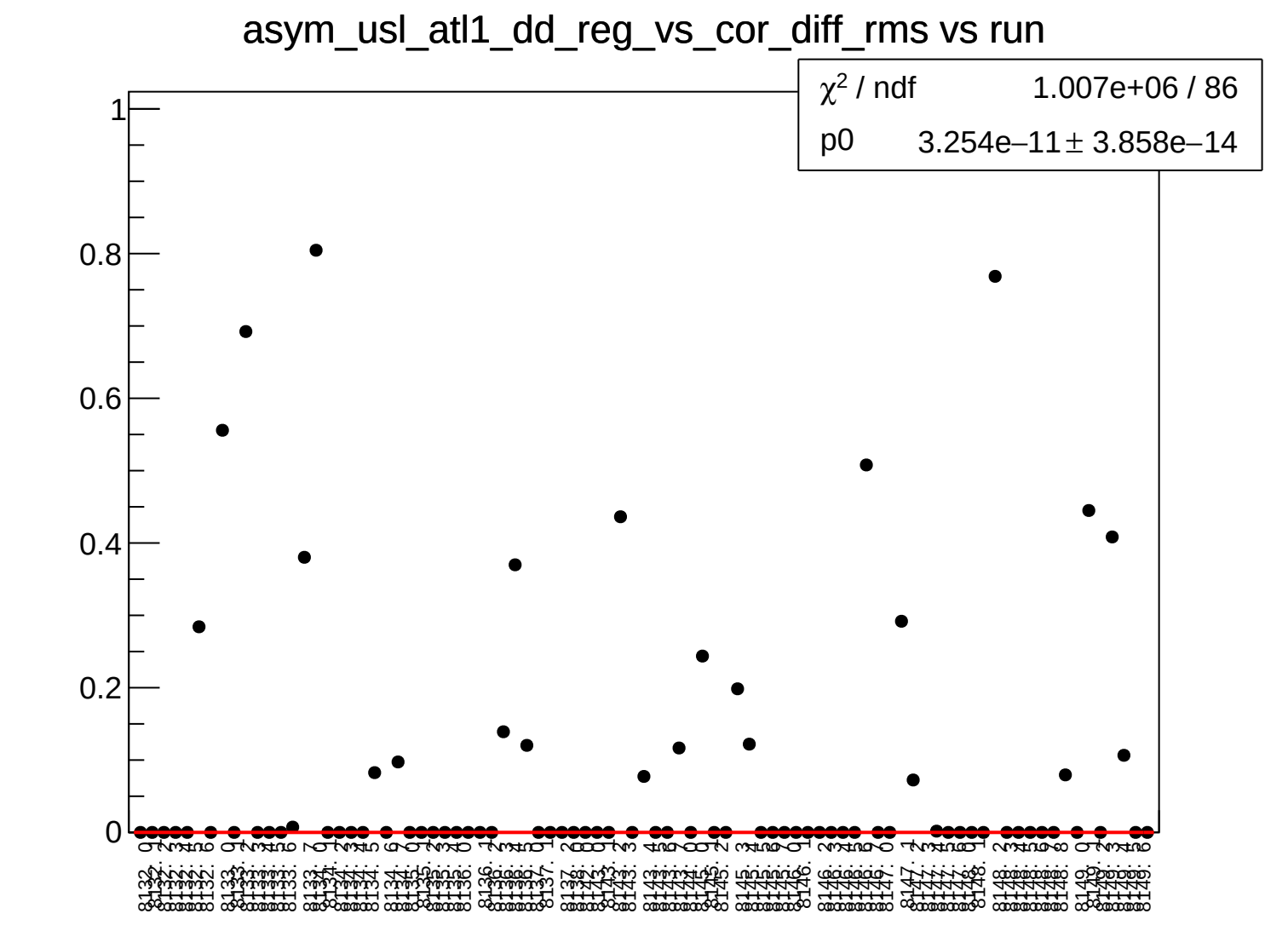

asym_usl_atl1_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.545e+05 / 86
p0 427.2 ± 0.3657
1800
1600
1400
1200
1000
800
600
400

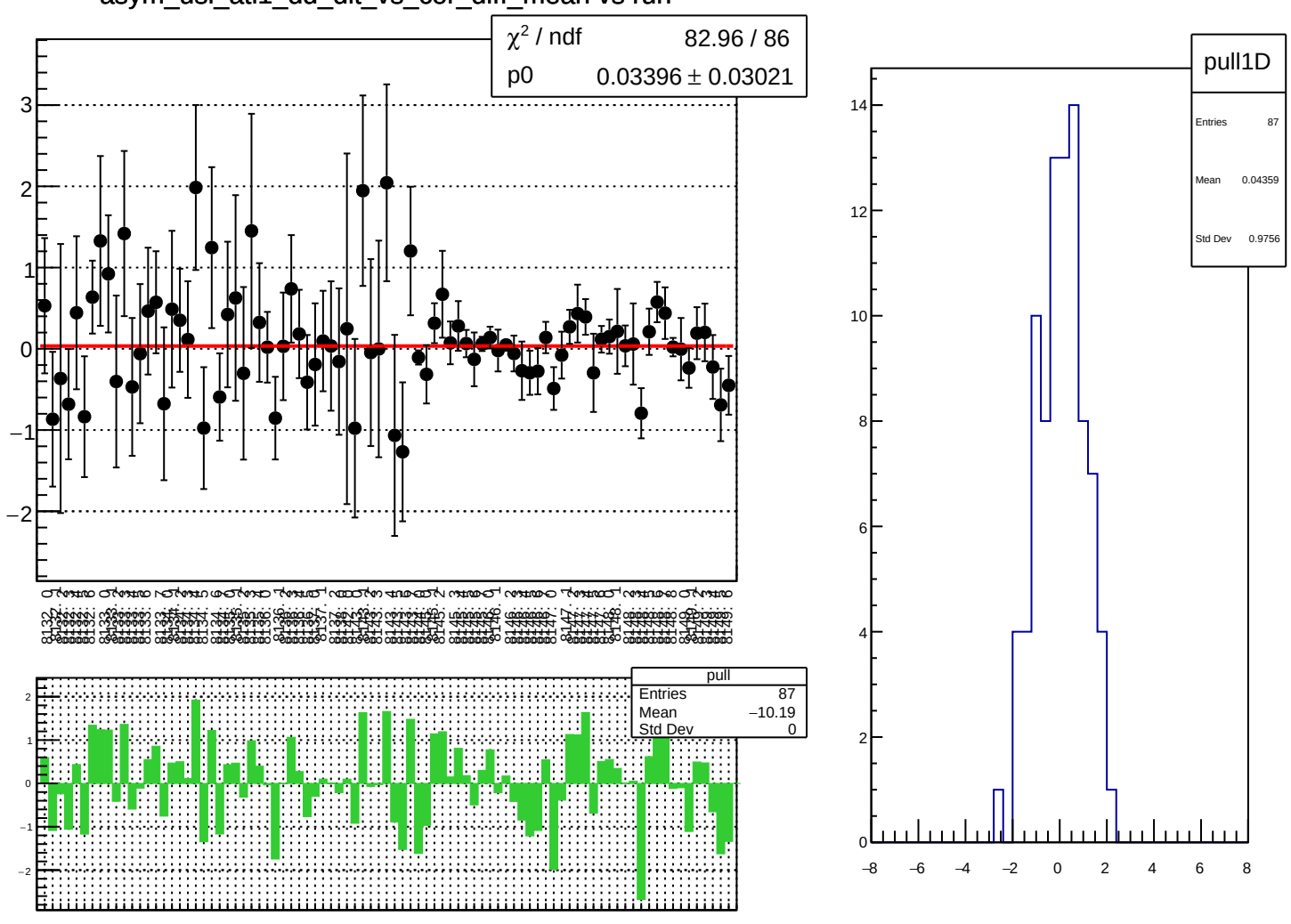

asym_usl_atl1_dd_mean vs run
χ² / ndf 91.69 / 86
p0 −864.8 ± 1431
pull
Entries 87
Mean 323
Std Dev 0

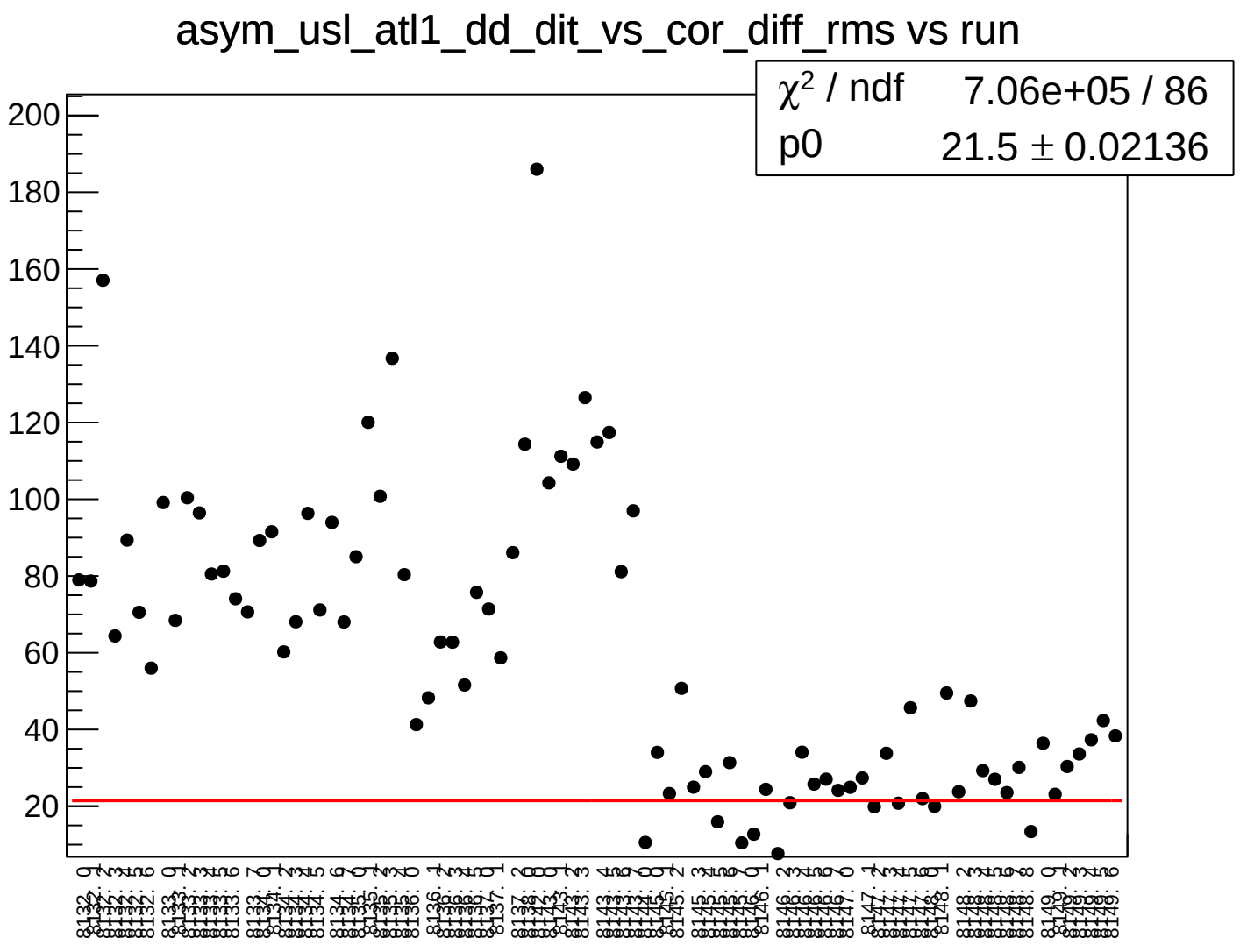

pull1D
Entries 87
Mean −0.004377
Std Dev 1.027

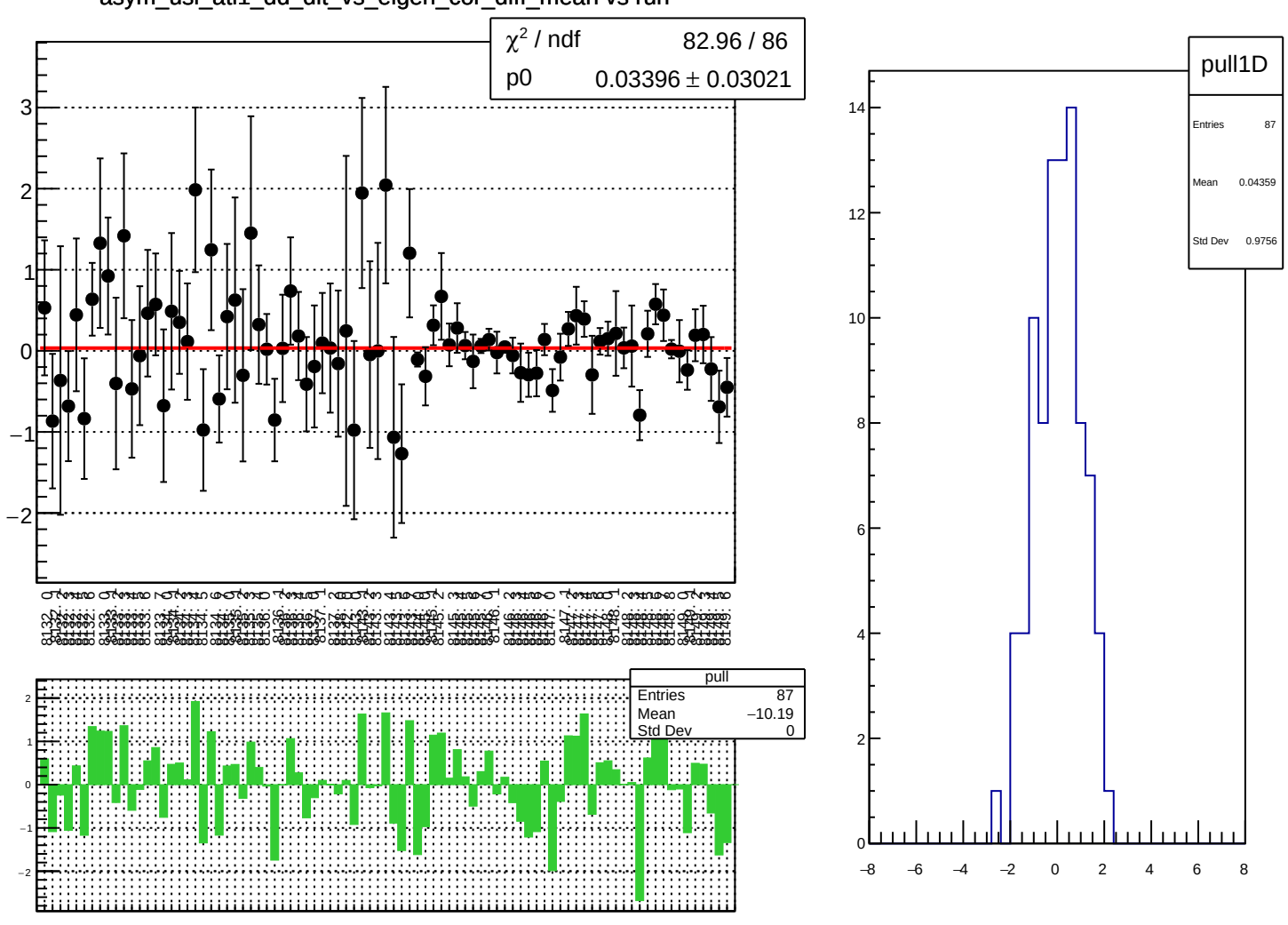

asym_usl_atl1_dd_rms vs run
χ² / ndf 5.791e+04 / 86
p0 1304 ± 1.012
2200
2000
1800
1600
1400
1200

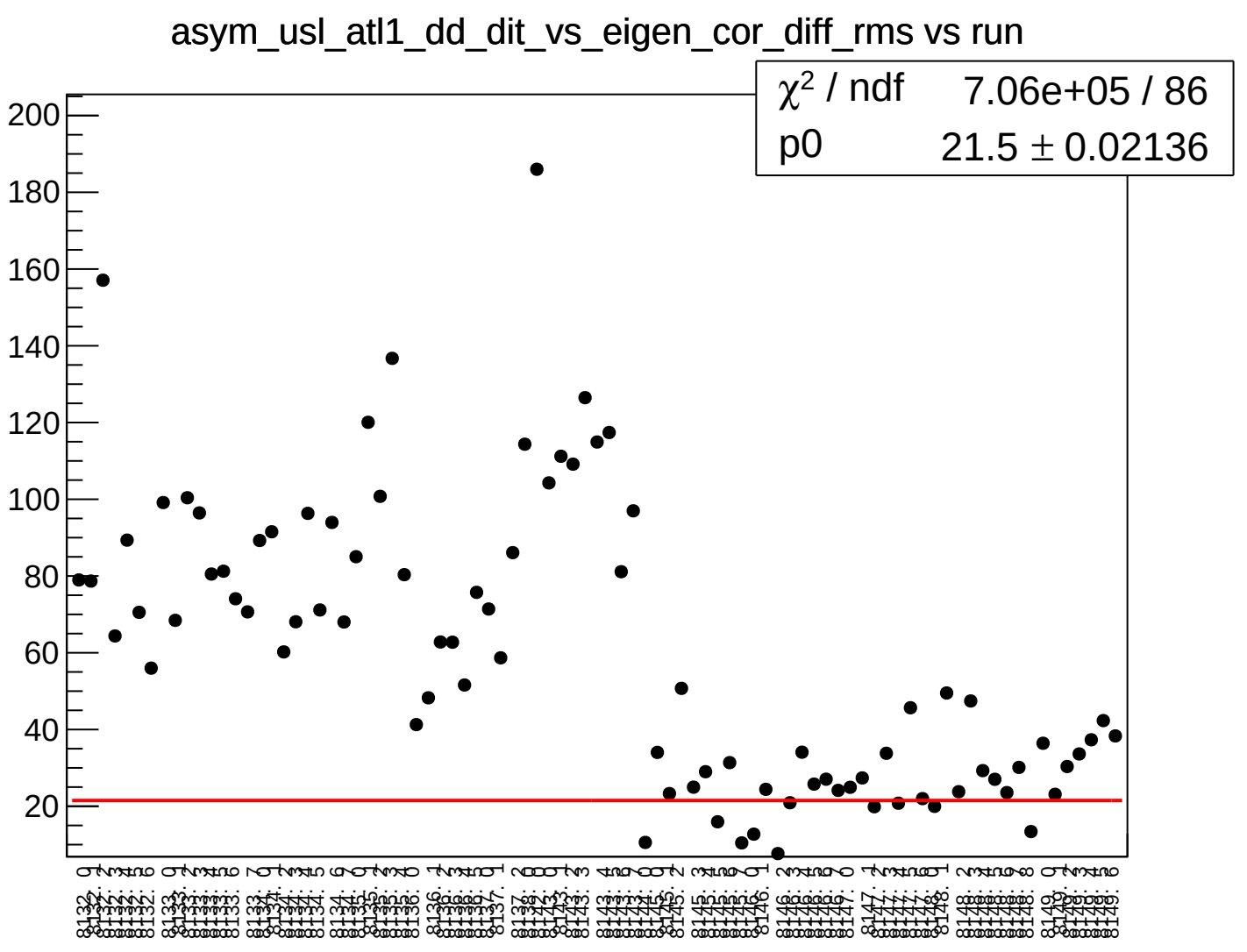

asym_usl_atl1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 77.6 / 86
p0 −5.723e−14 ± 5.455e−14
pull
Entries 87
Mean −0.02469
Std Dev 0
pull1D
Entries 87
Mean 0.07411
Std Dev 0.9415

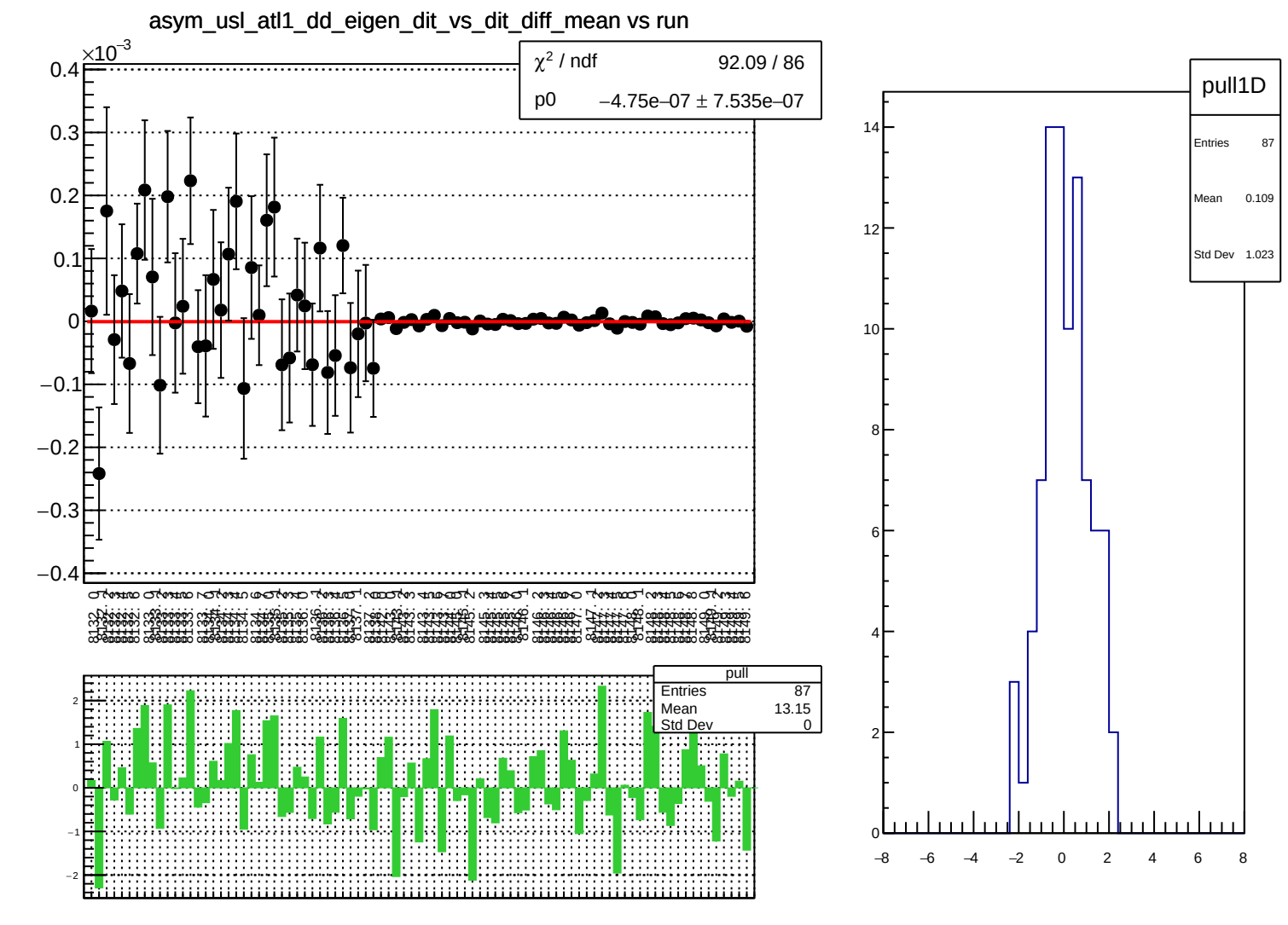

asym_usl_atl1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.007e+06 / 86
p0 3.254e−11 ± 3.858e−14
1
0.8
0.6
0.4
0.2
0

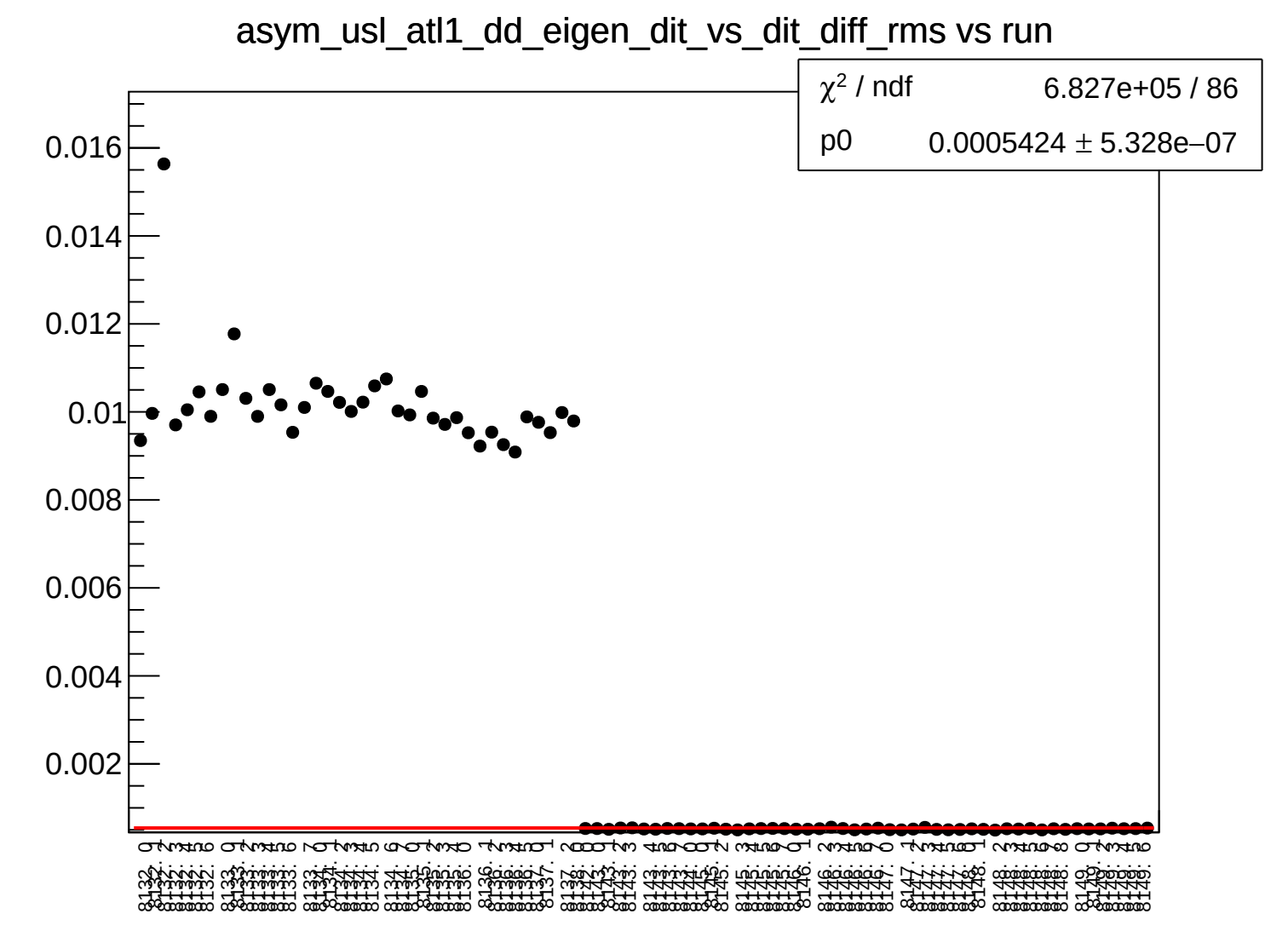

asym_usl_atl1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 82.96 / 86
p0 0.03396 ± 0.03021
pull
Entries 87
Mean −10.19
Std Dev 0
pull1D
Entries 87
Mean 0.04359
Std Dev 0.9756

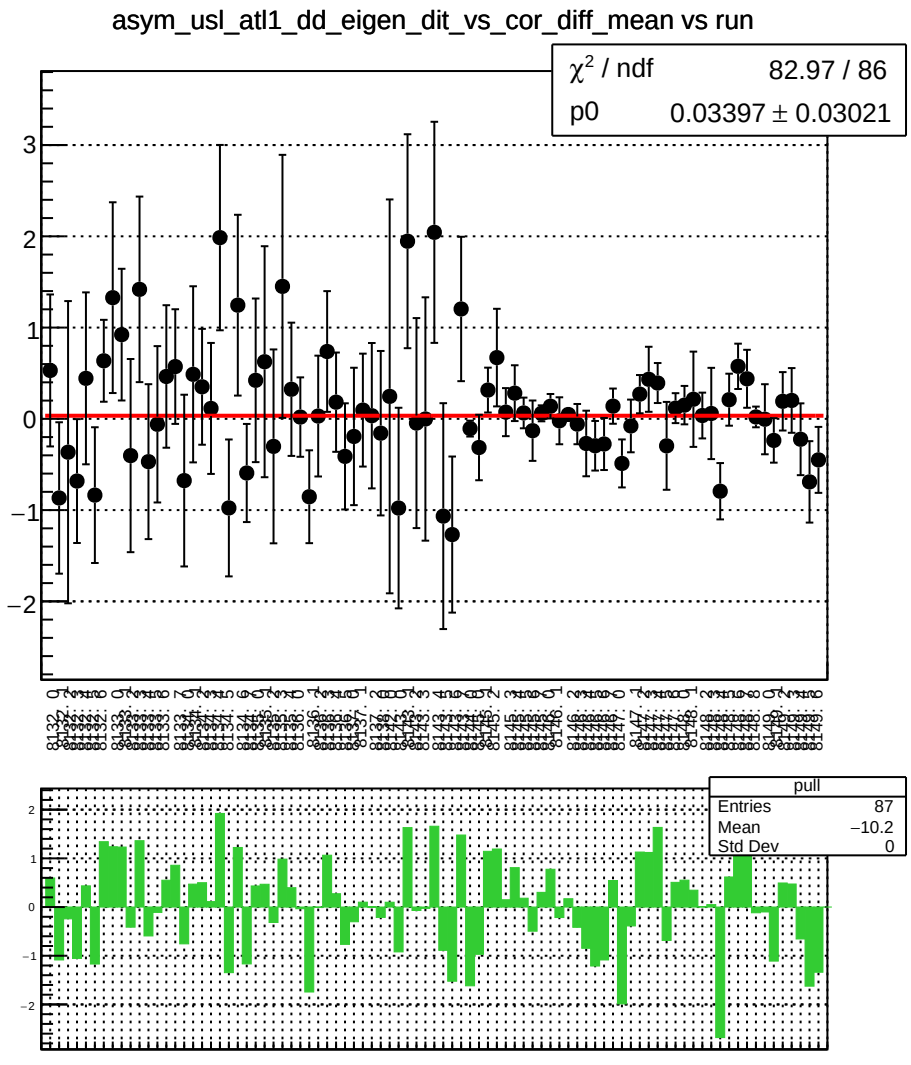

asym_usl_atl1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.06e+05 / 86
p0 21.5 ± 0.02136
200
180
160
140
120
100
80
60
40
20

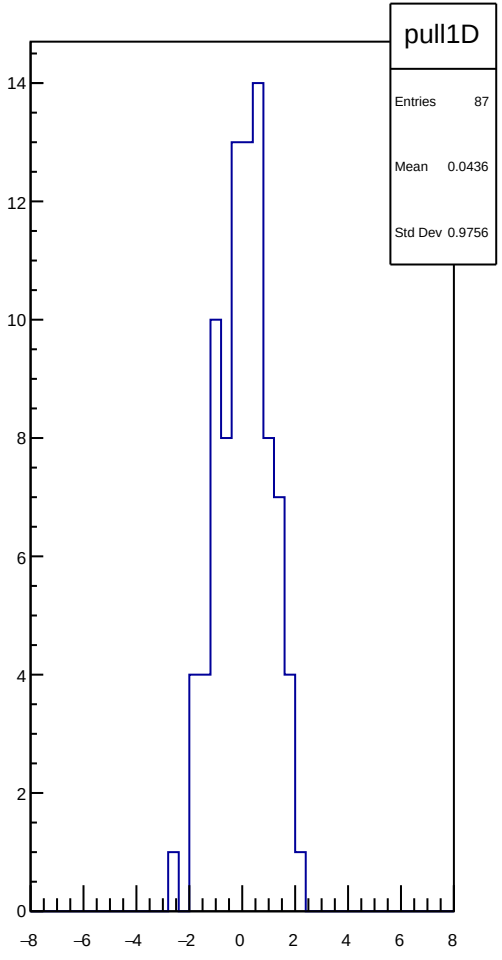

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.96 / 86
p0 0.03396 ± 0.03021
pull
Entries 87
Mean −10.19
Std Dev 0
pull1D
Entries 87
Mean 0.04359
Std Dev 0.9756

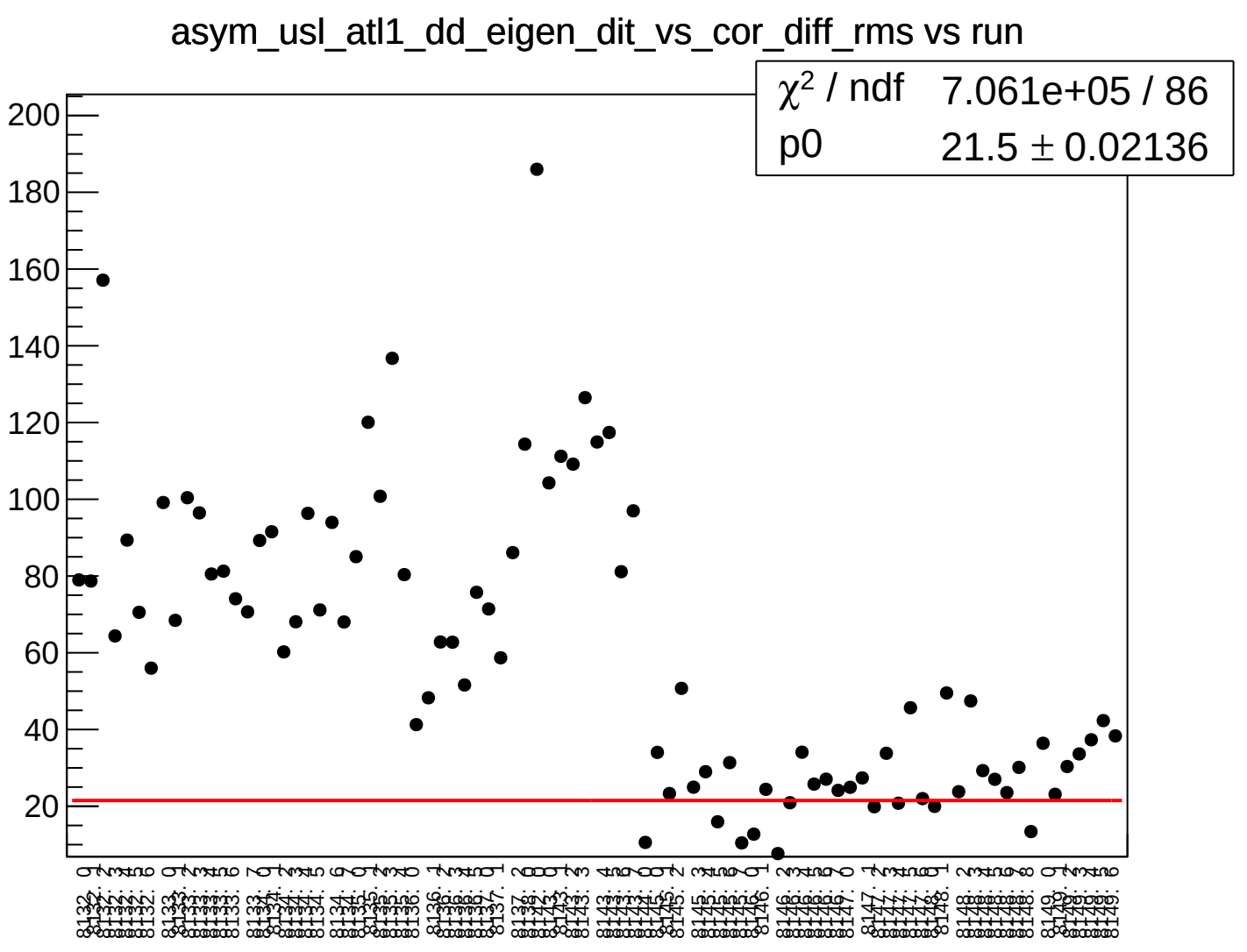

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.06e+05 / 86
p0 21.5 ± 0.02136
200
180
160
140
120
100
80
60
40
20

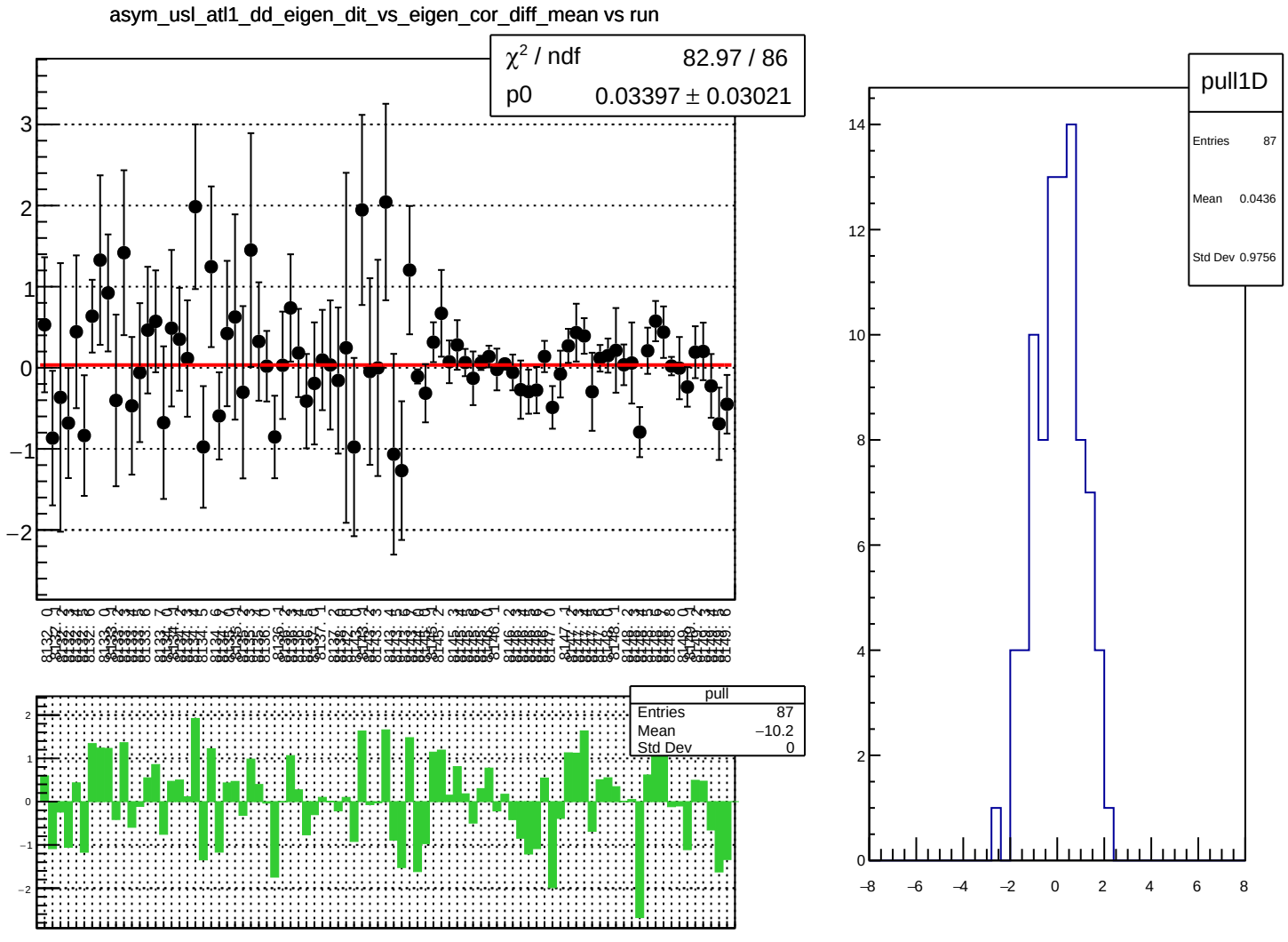

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.09 / 86
p0 −4.75e−07 ± 7.535e−07
pull
Entries 87
Mean 13.15
Std Dev 0
pull1D
Entries 87
Mean 0.109
Std Dev 1.023

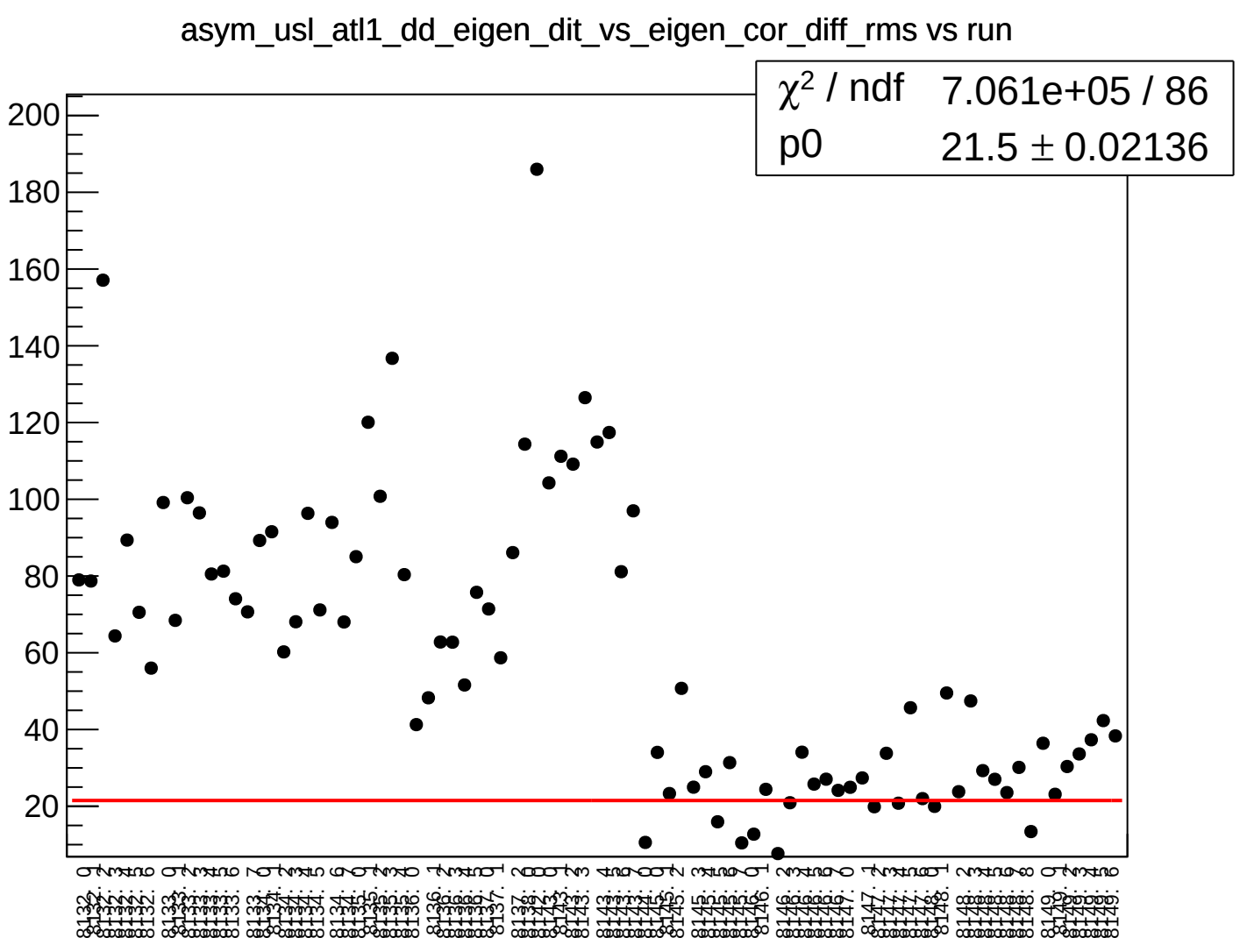

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.827e+05 / 86
p0 0.0005424 ± 5.328e−07
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

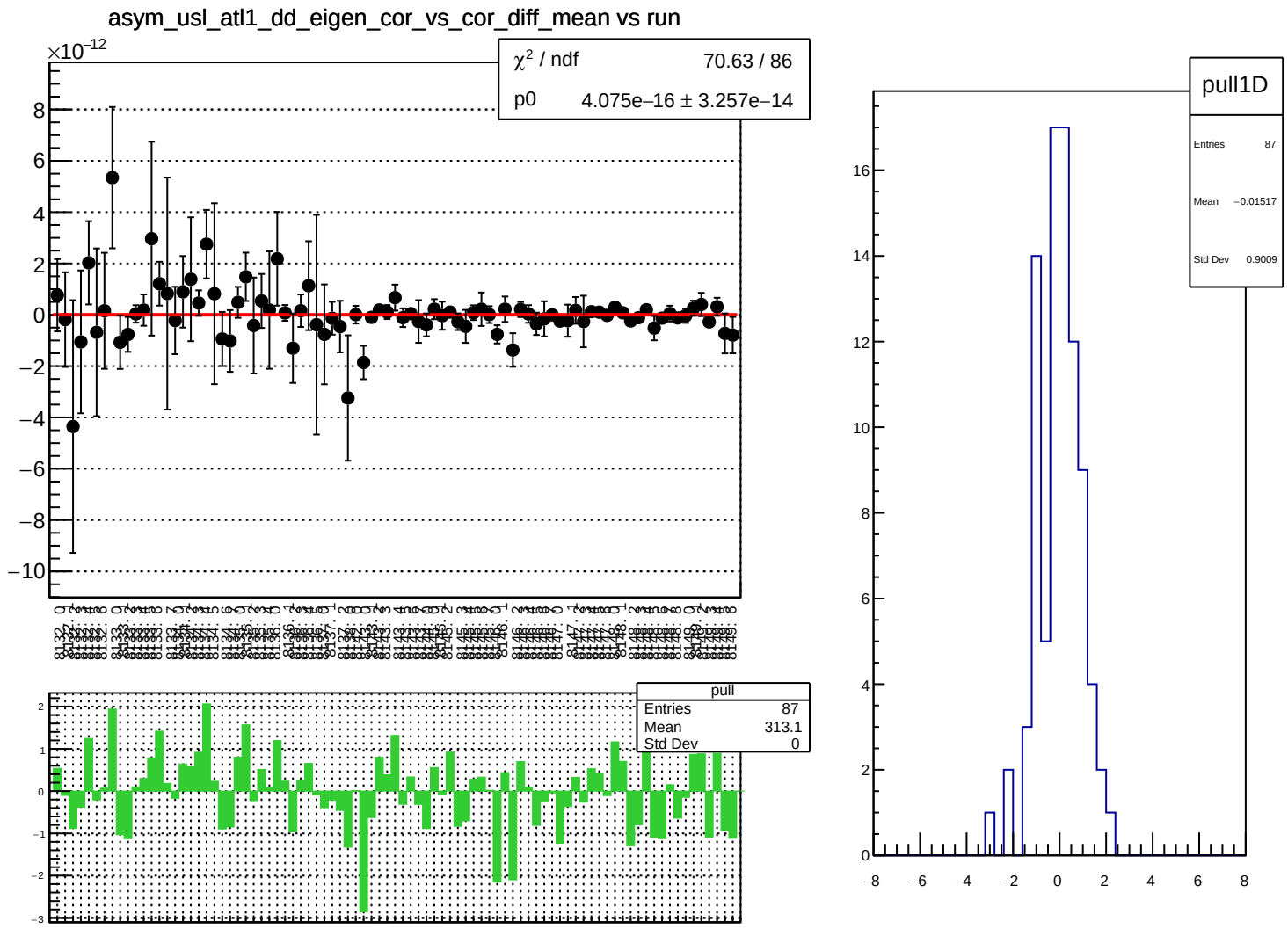

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.97 / 86
p0 0.03397 ± 0.03021
pull
Entries 87
Mean −10.2
Std Dev 0

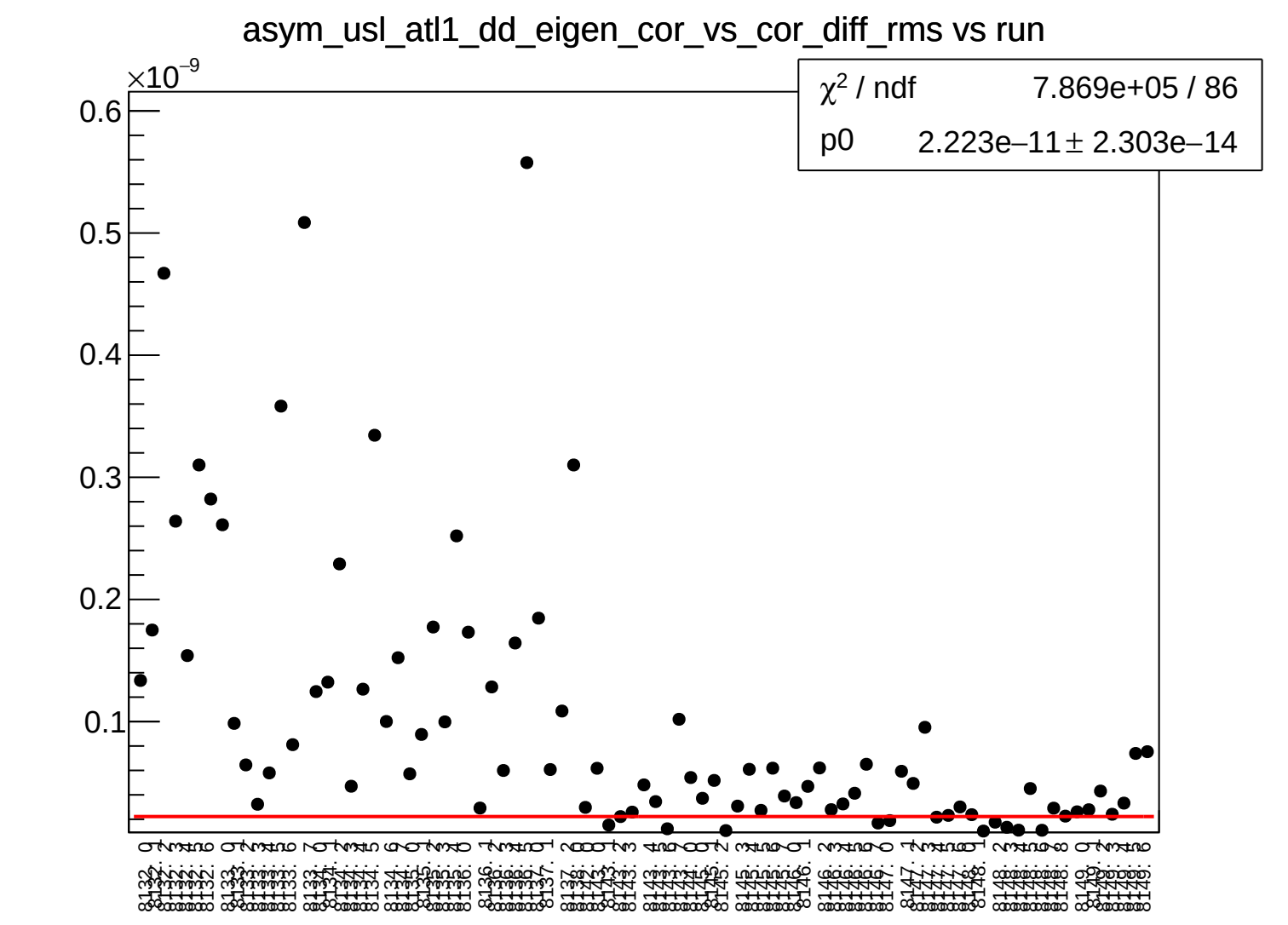

pull1D
Entries 87
Mean 0.0436
Std Dev 0.9756

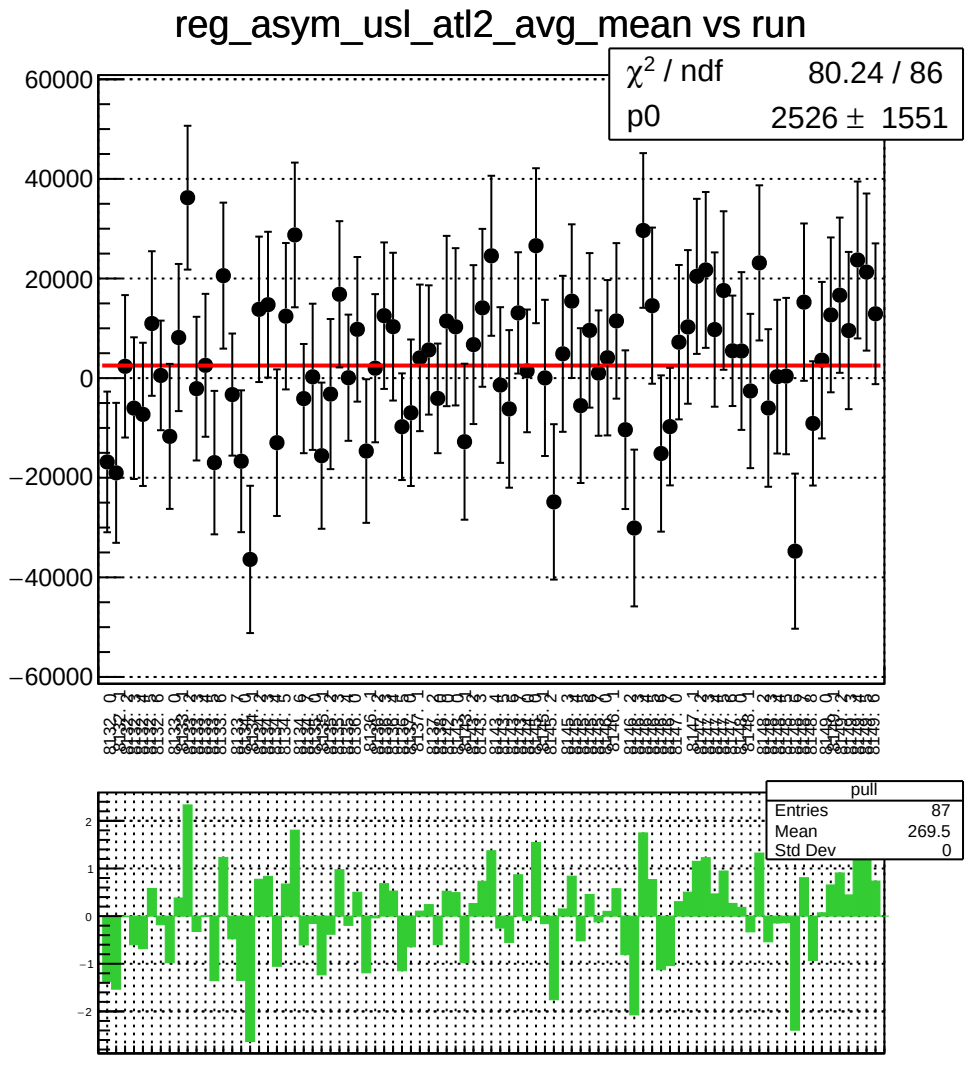

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.061e+05 / 86
p0 21.5 ± 0.02136
200
180
160
140
120
100
80
60
40
20

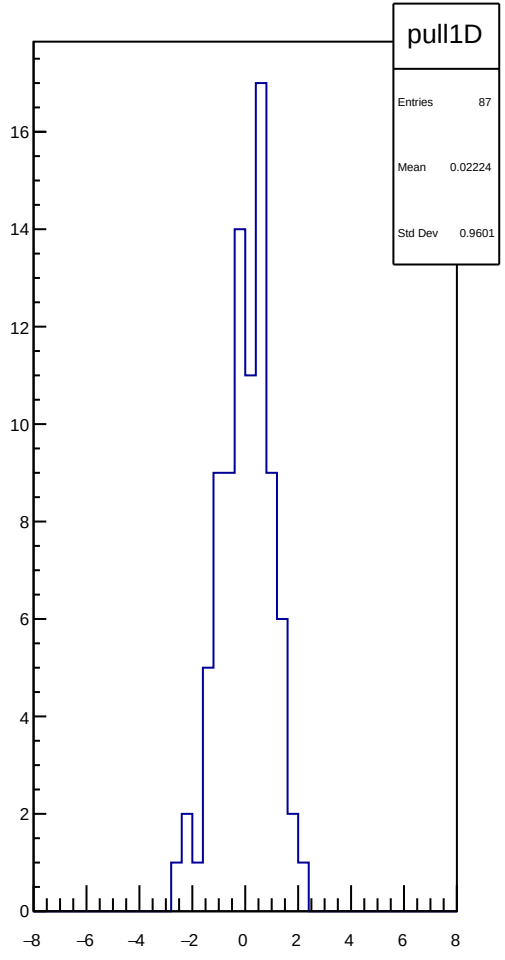

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.97 / 86
p0 0.03397 ± 0.03021
pull
Entries 87
Mean −10.2
Std Dev 0
pull1D
Entries 87
Mean 0.0436
Std Dev 0.9756

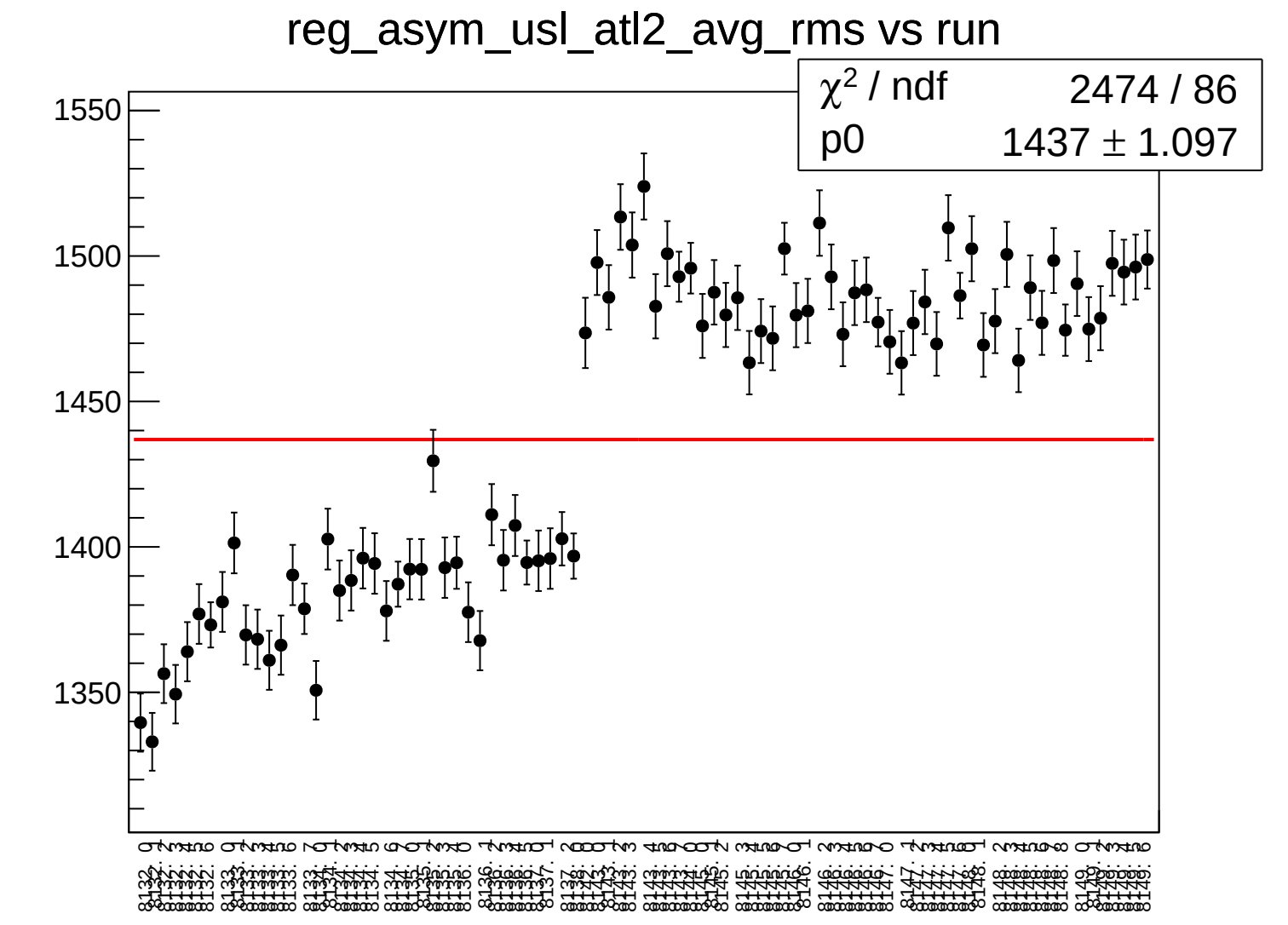

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.061e+05 / 86
p0 21.5 ± 0.02136
200
180
160
140
120
100
80
60
40
20

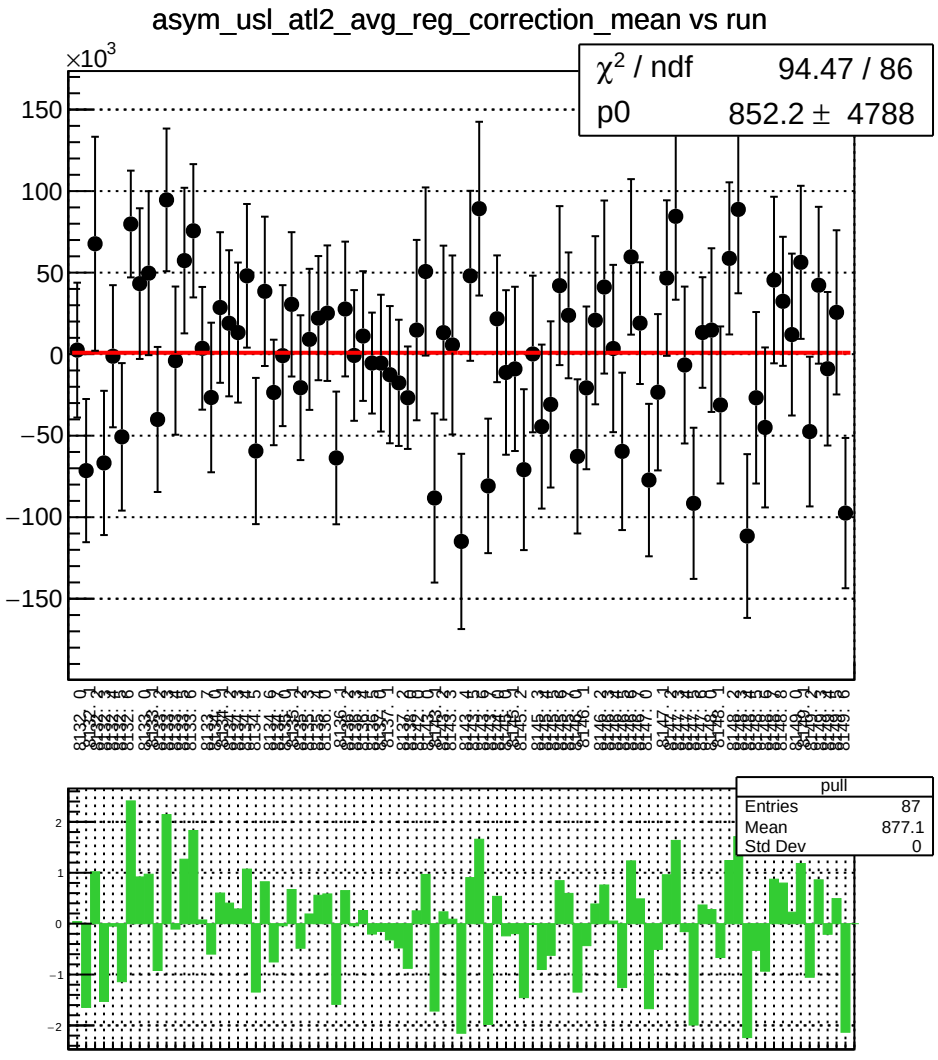

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 70.63 / 86
p0 4.075e−16 ± 3.257e−14
pull
Entries 87
Mean 313.1
Std Dev 0
pull1D
Entries 87
Mean −0.01517
Std Dev 0.9009

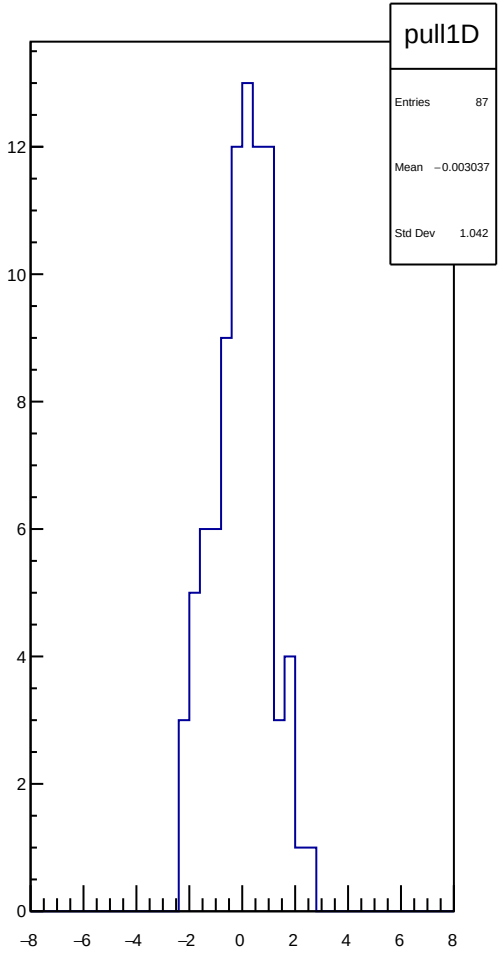

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.869e+05 / 86
p0 2.223e−11 ± 2.303e−14
0.6
0.5
0.4
0.3
0.2
0.1

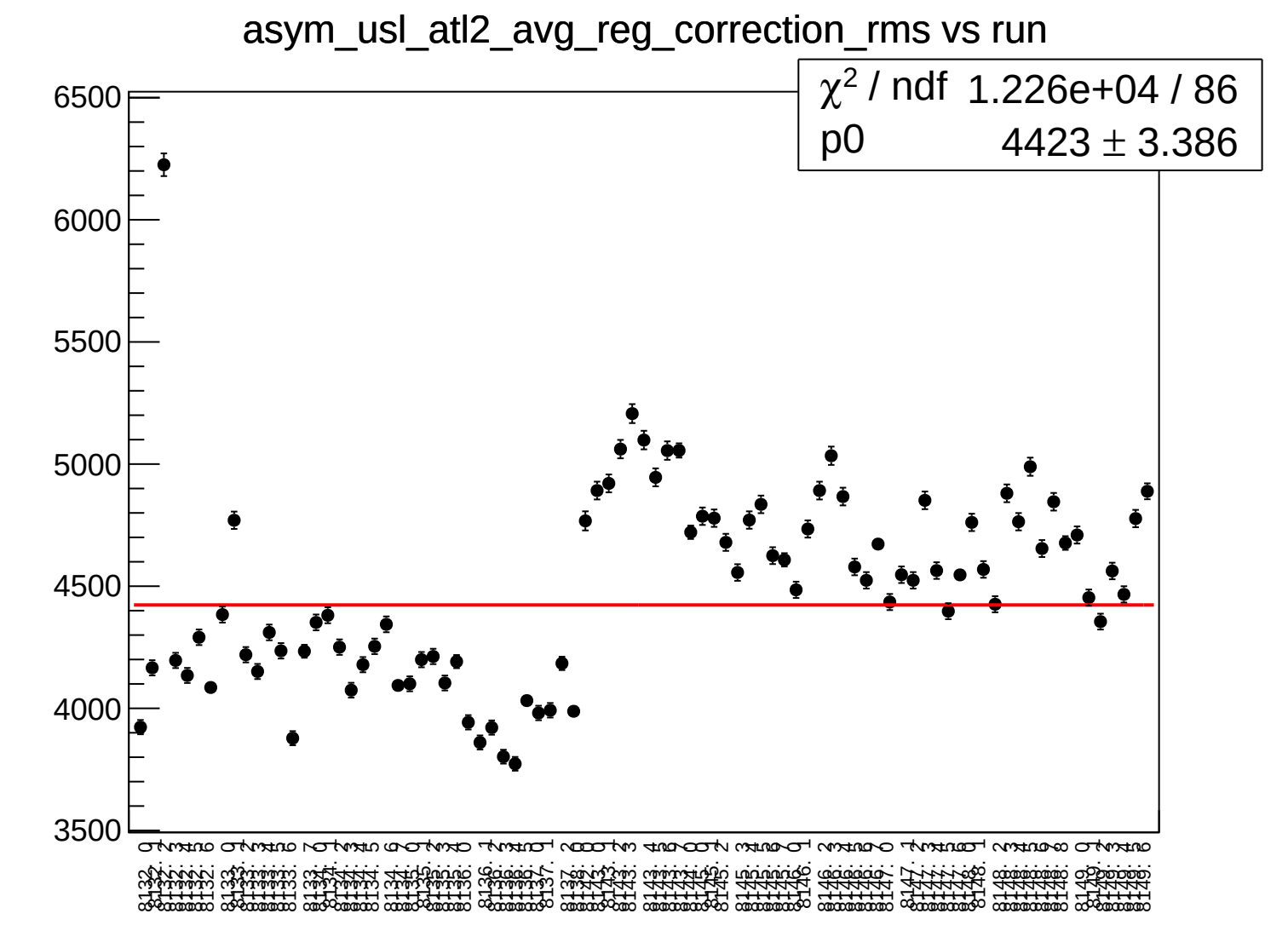

reg_asym_usl_atl2_avg_mean vs run
χ² / ndf 80.24 / 86
p0 2526 ± 1551
pull
Entries 87
Mean 269.5
Std Dev 0

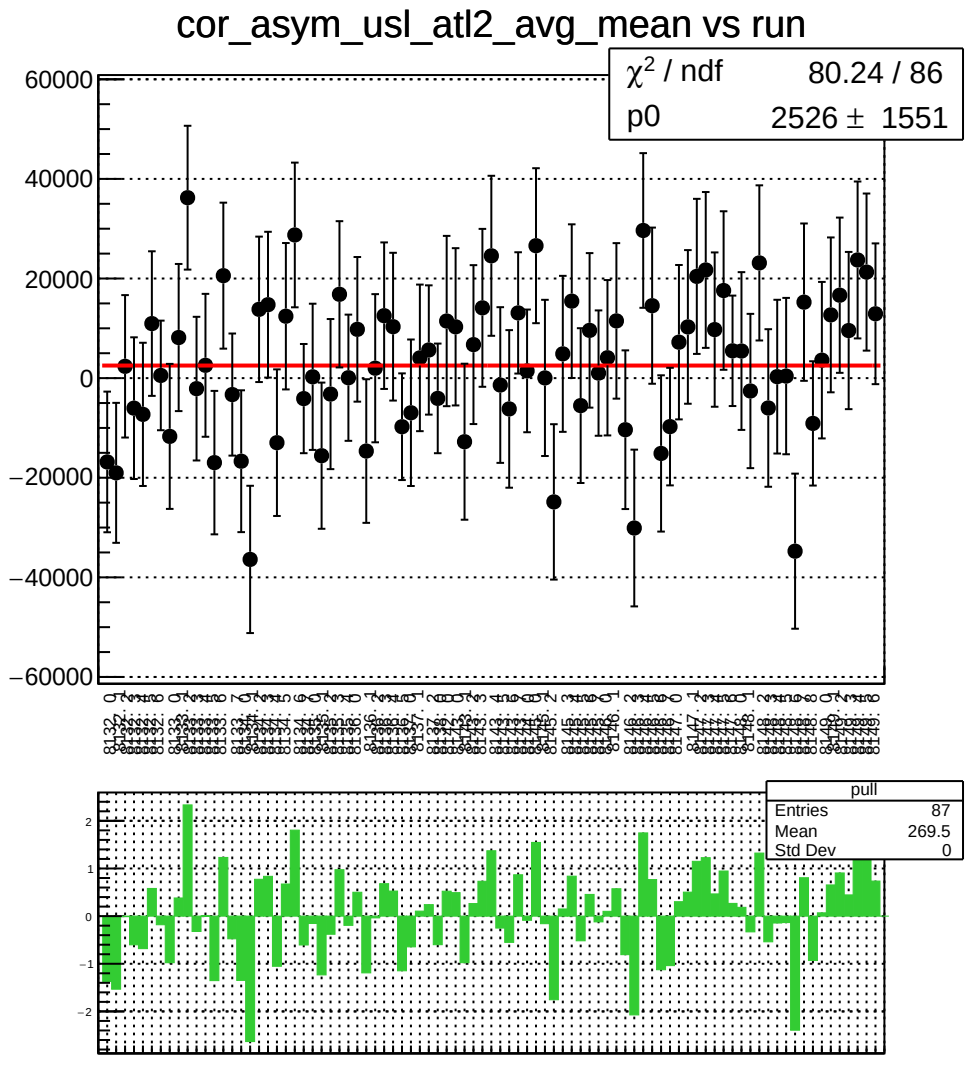

pull1D
Entries 87
Mean 0.02224
Std Dev 0.9601

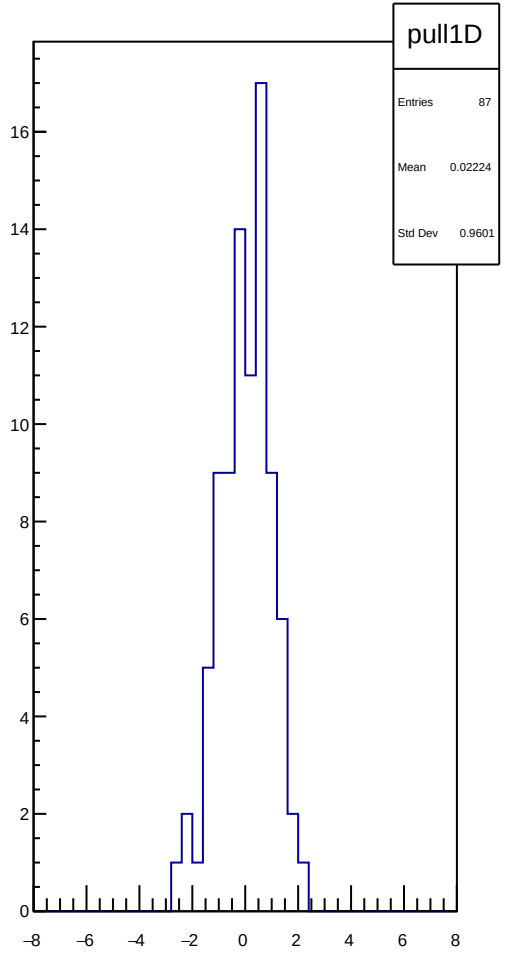

reg_asym_usl_atl2_avg_rms vs run
χ² / ndf 2474 / 86
p0 1437 ± 1.097
1550
1500
1450
1400
1350

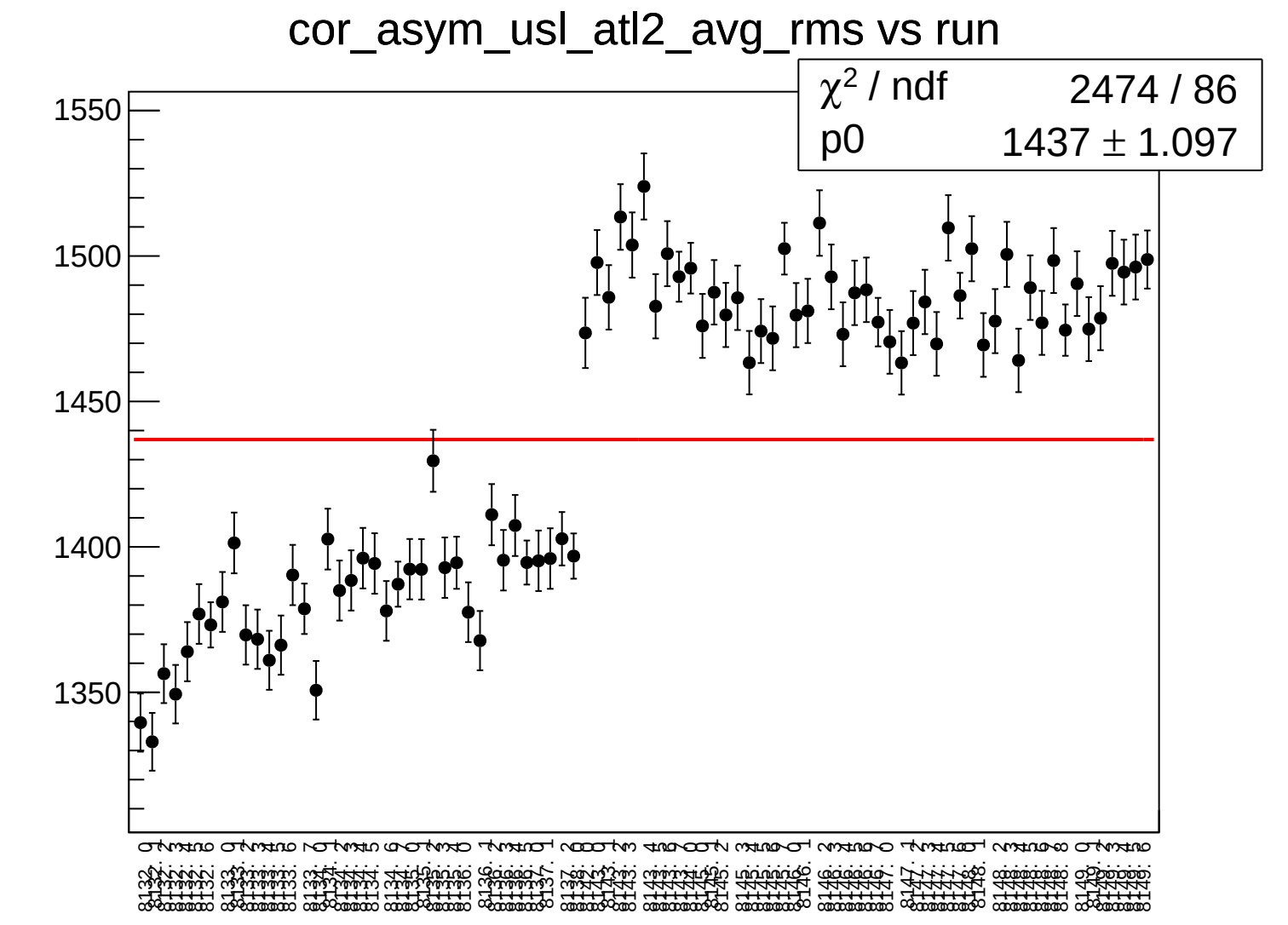

asym_usl_atl2_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 94.47 / 86
p0 852.2 ± 4788
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean 877.1
Std Dev 0
2
1
0
−1
−2

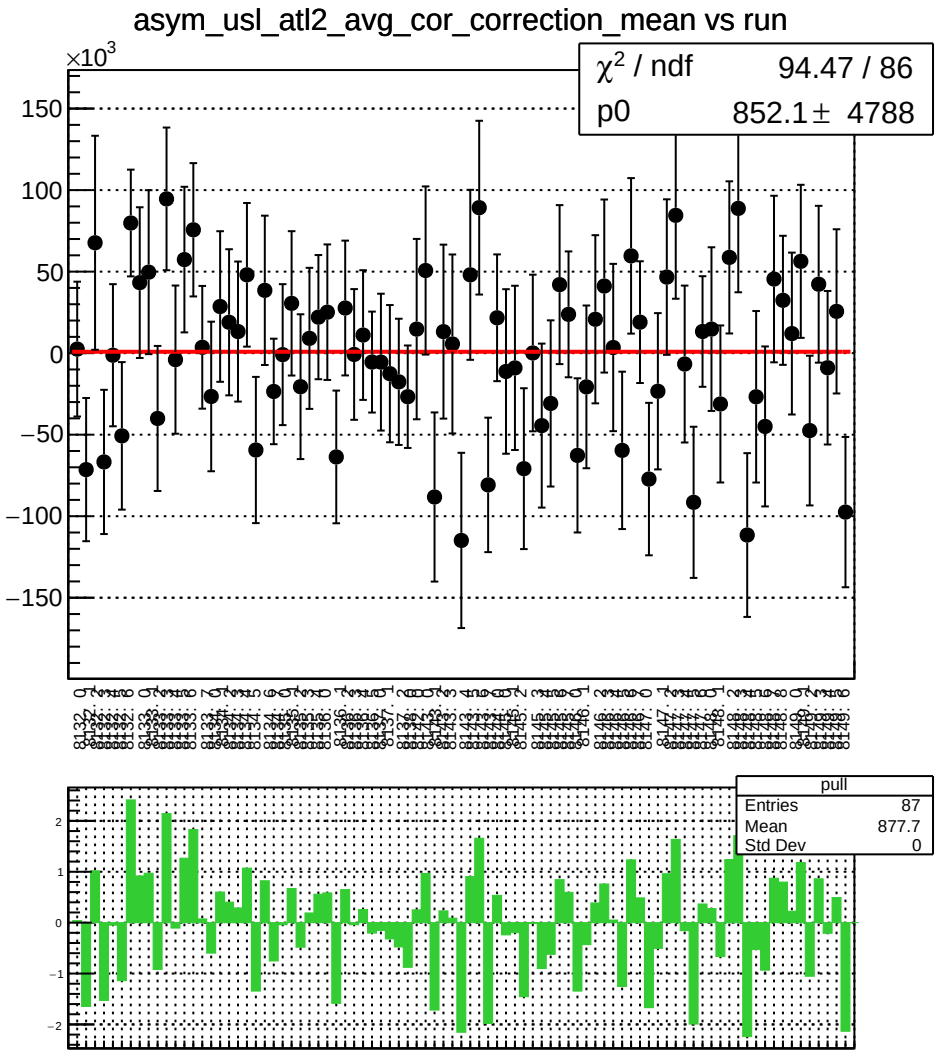

pull1D
Entries 87
Mean −0.003037
Std Dev 1.042
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

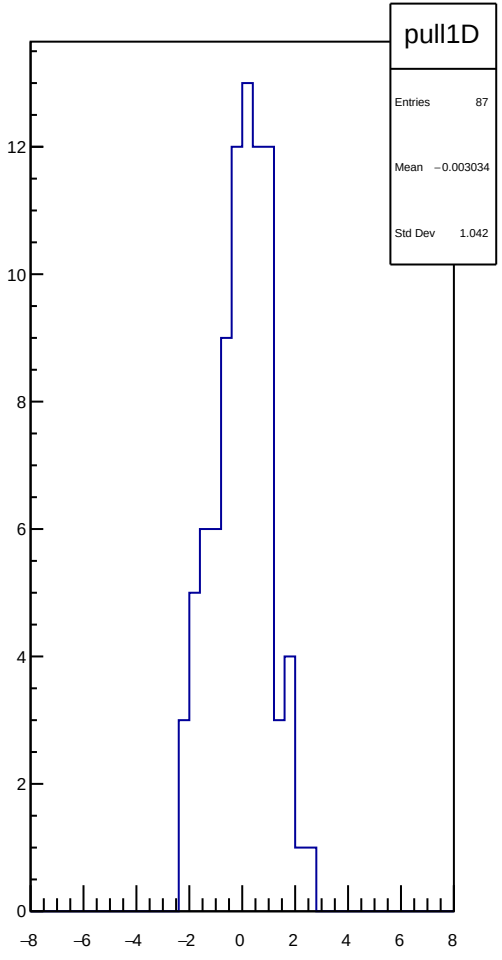

asym_usl_atl2_avg_reg_correction_rms vs run
χ² / ndf 1.226e+04 / 86
p0 4423 ± 3.386
6500
6000
5500
5000
4500
4000
3500

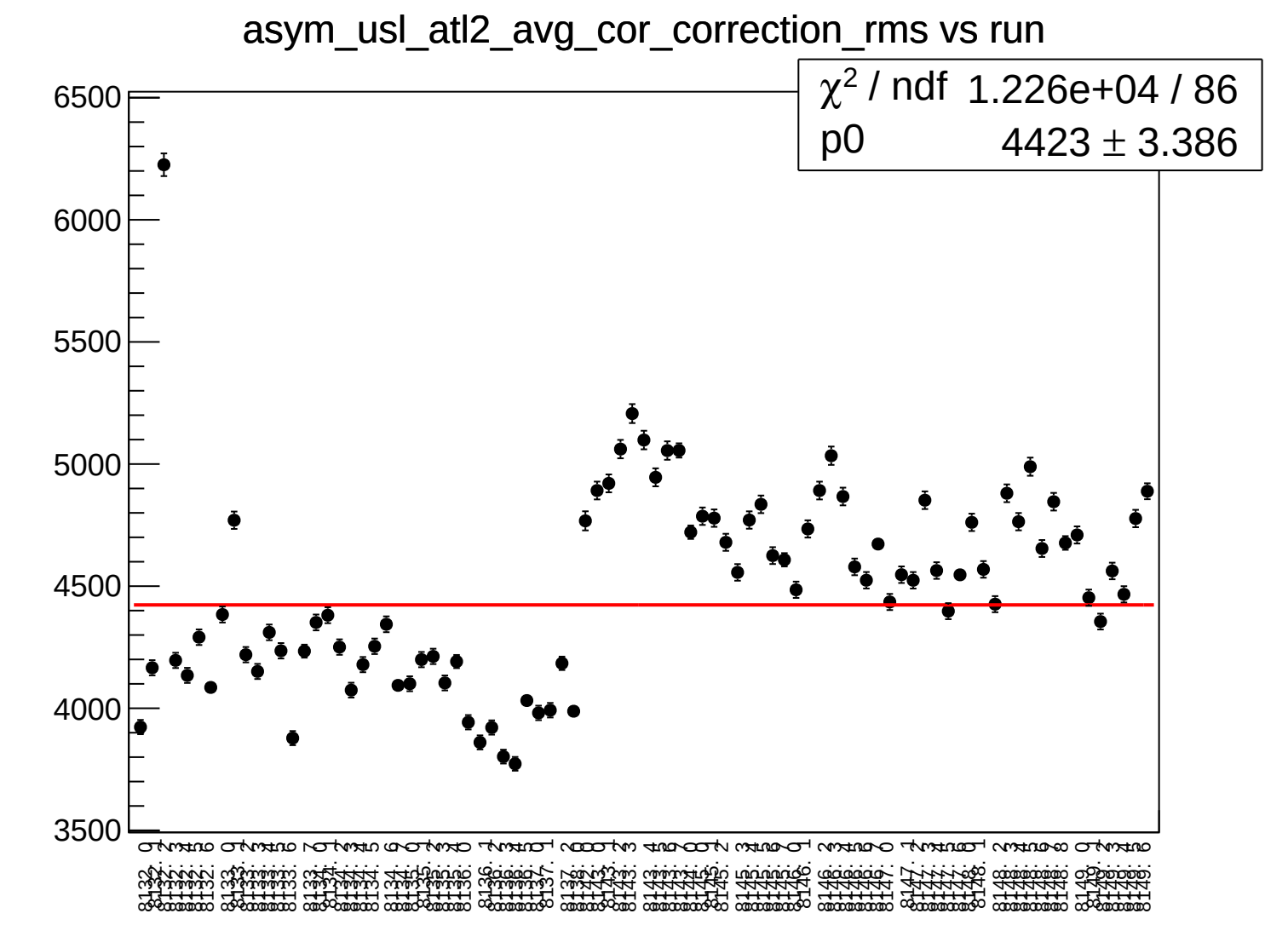

cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 80.24 / 86
p0 2526 ± 1551
pull
Entries 87
Mean 269.5
Std Dev 0

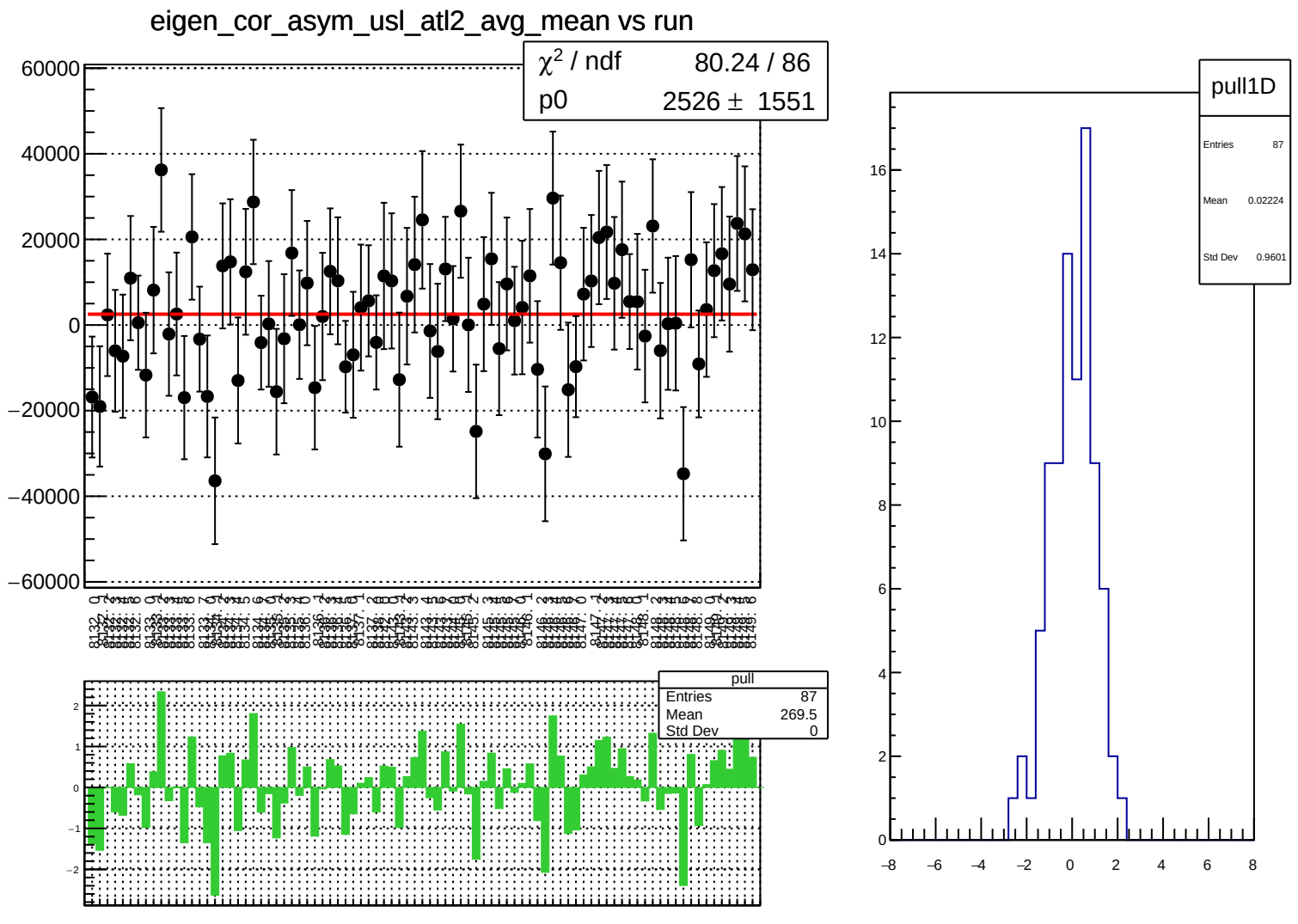

pull1D
Entries 87
Mean 0.02224
Std Dev 0.9601

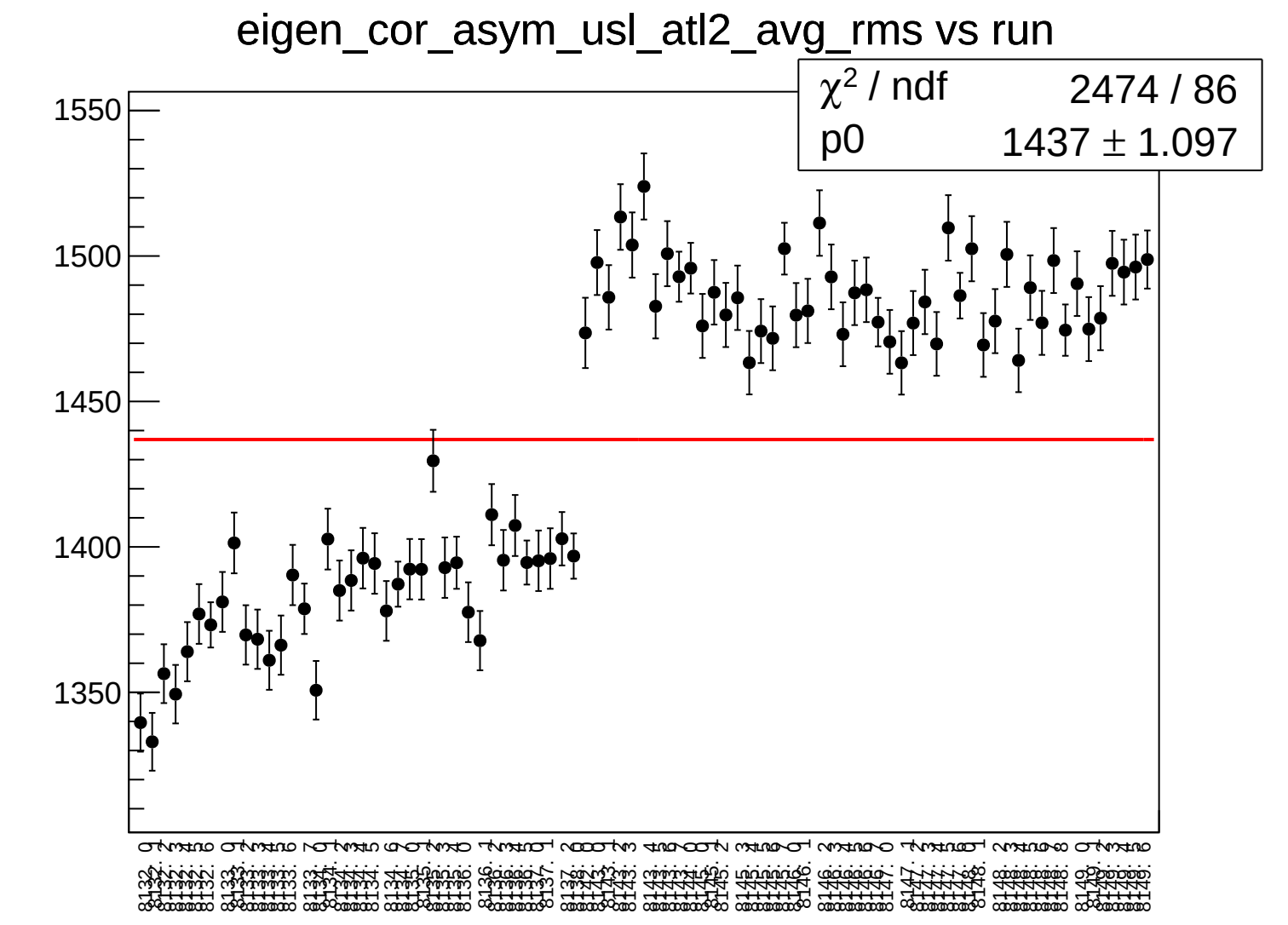

cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 2474 / 86
p0 1437 ± 1.097
1550
1500
1450
1400
1350

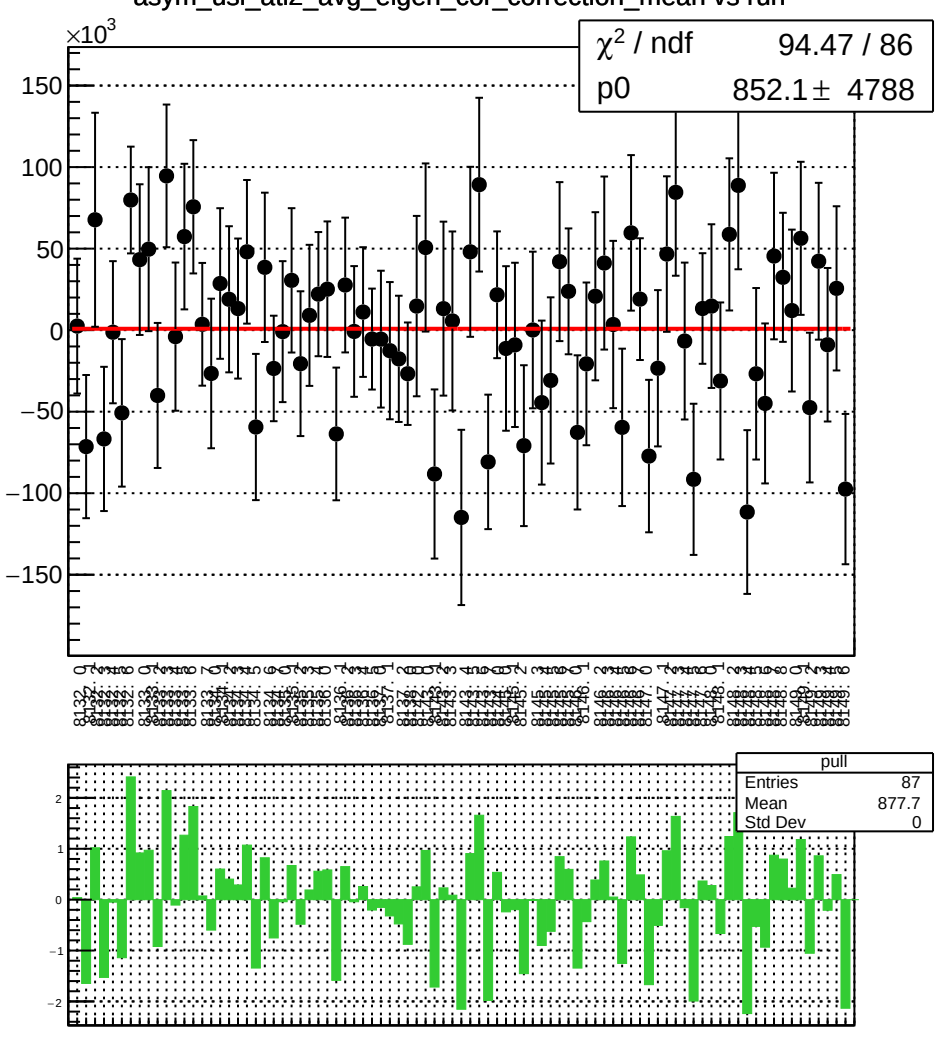

asym_usl_atl2_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 94.47 / 86
p0 852.1 ± 4788
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean 877.7
Std Dev 0
2
1
0
−1
−2

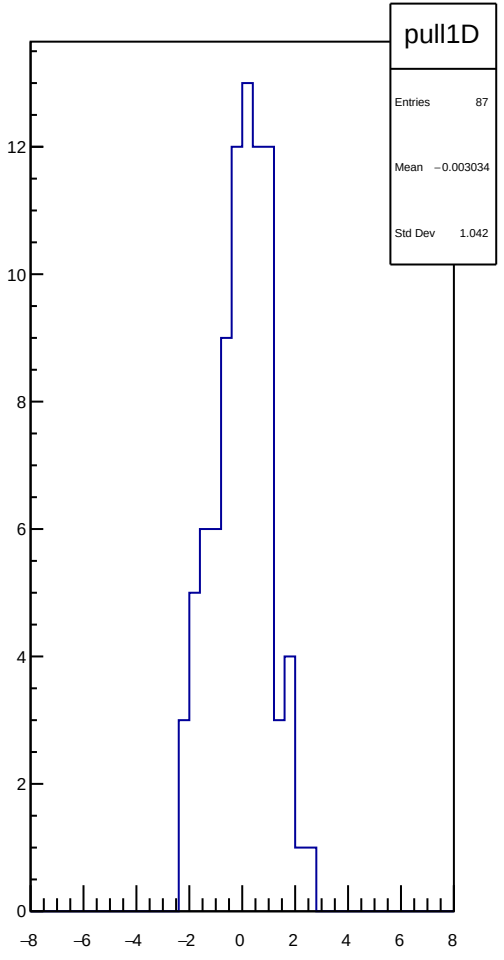

pull1D
Entries 87
Mean −0.003034
Std Dev 1.042
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

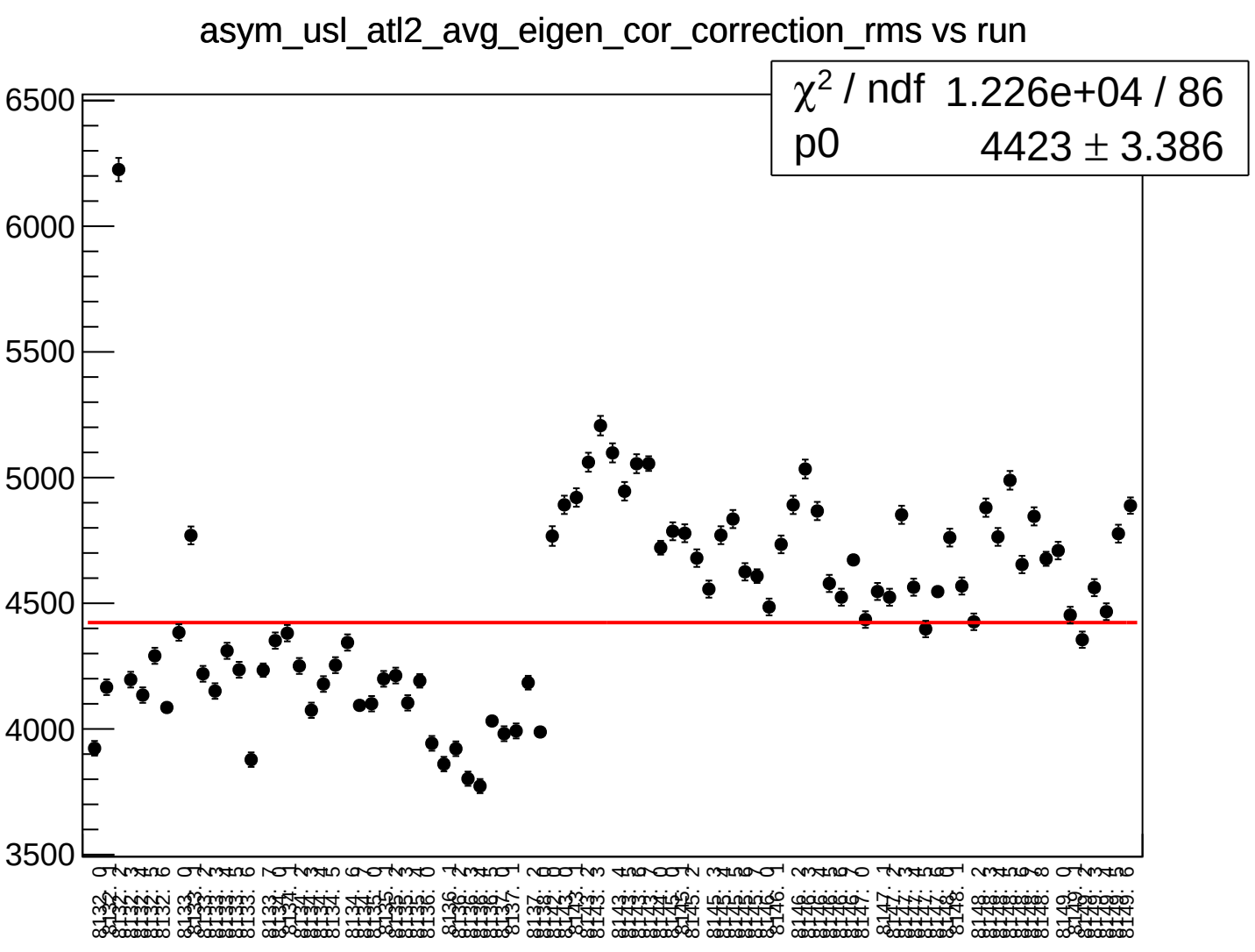

asym_usl_atl2_avg_cor_correction_rms vs run
χ² / ndf 1.226e+04 / 86
p0 4423 ± 3.386
6500
6000
5500
5000
4500
4000
3500

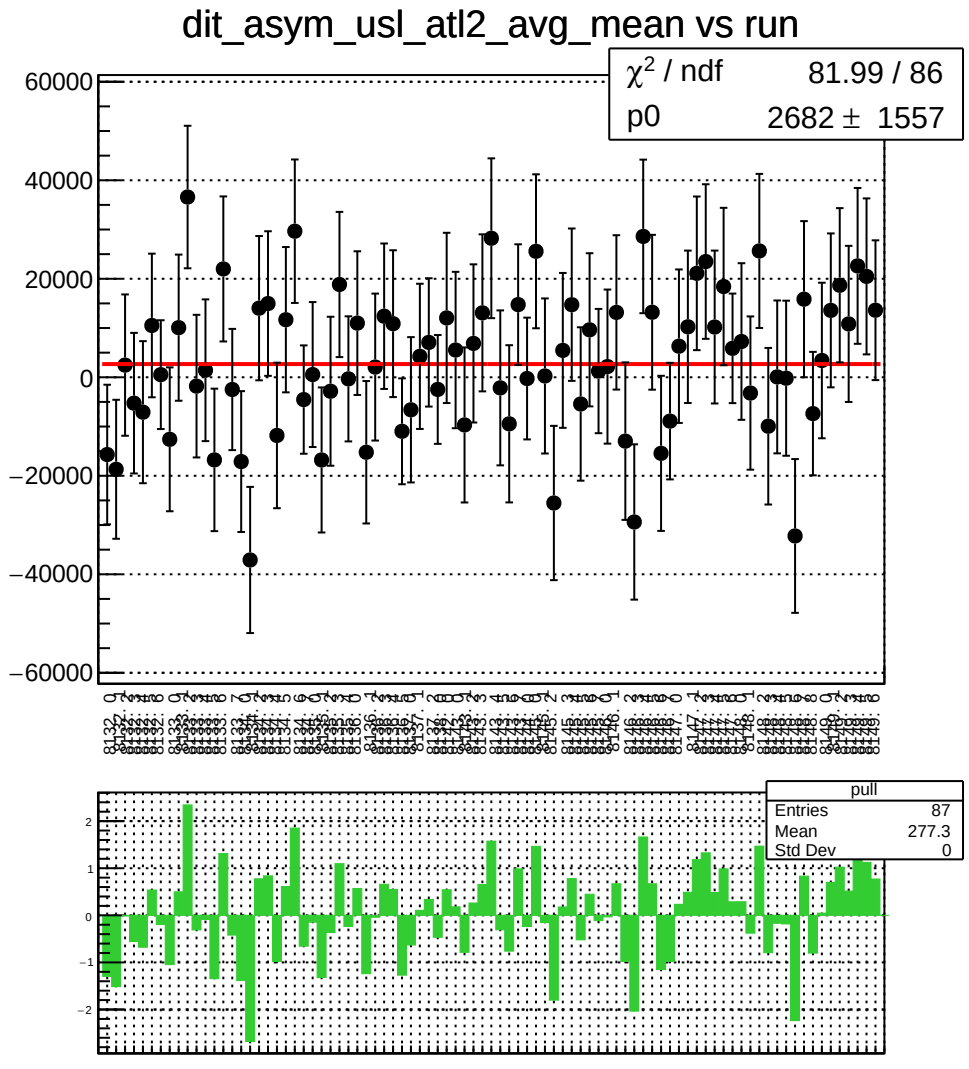

eigen_cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 80.24 / 86
p0 2526 ± 1551
pull
Entries 87
Mean 269.5
Std Dev 0
pull1D
Entries 87
Mean 0.02224
Std Dev 0.9601

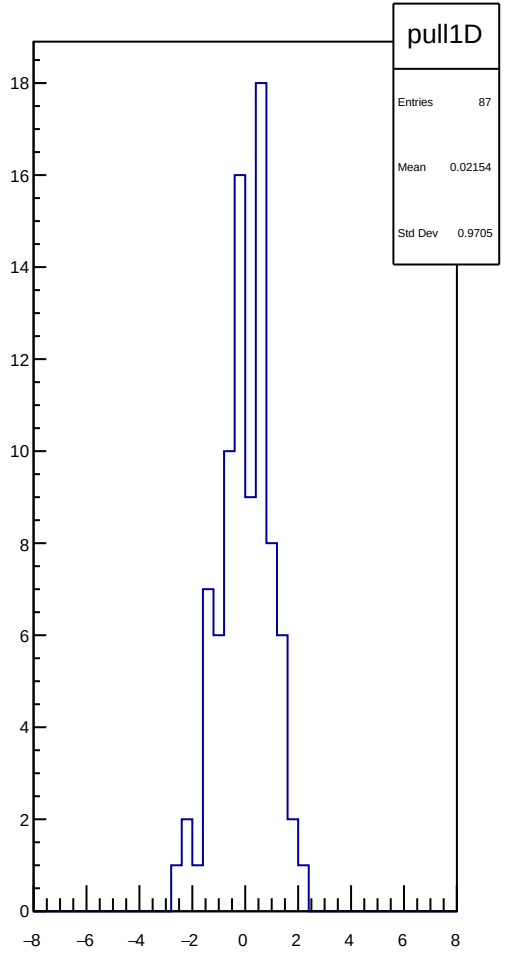

eigen_cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 2474 / 86
p0 1437 ± 1.097
1550
1500
1450
1400
1350

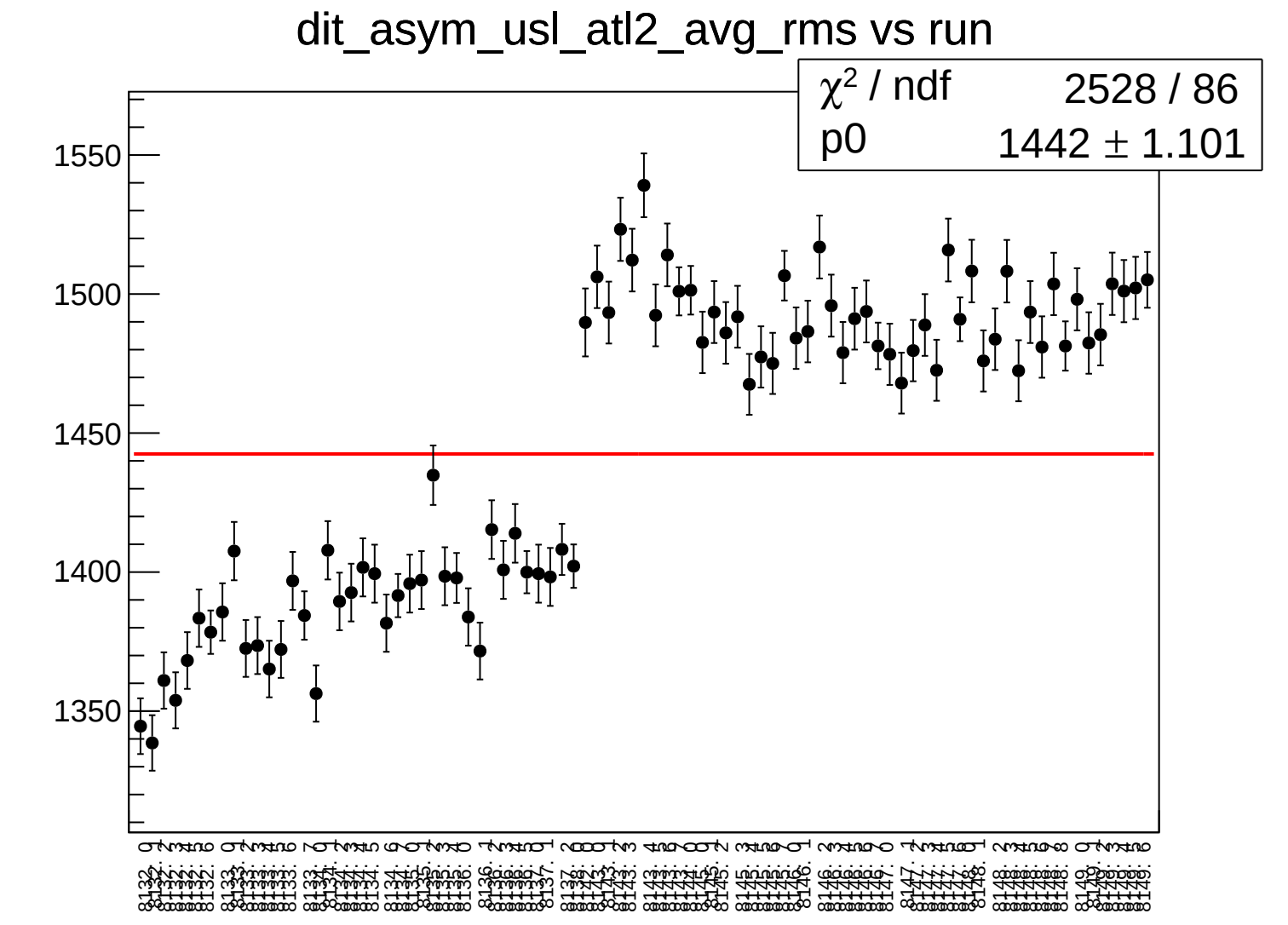

asym_usl_atl2_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 94.47 / 86
p0 852.1 ± 4788
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean 877.7
Std Dev 0
2
1
0
−1
−2

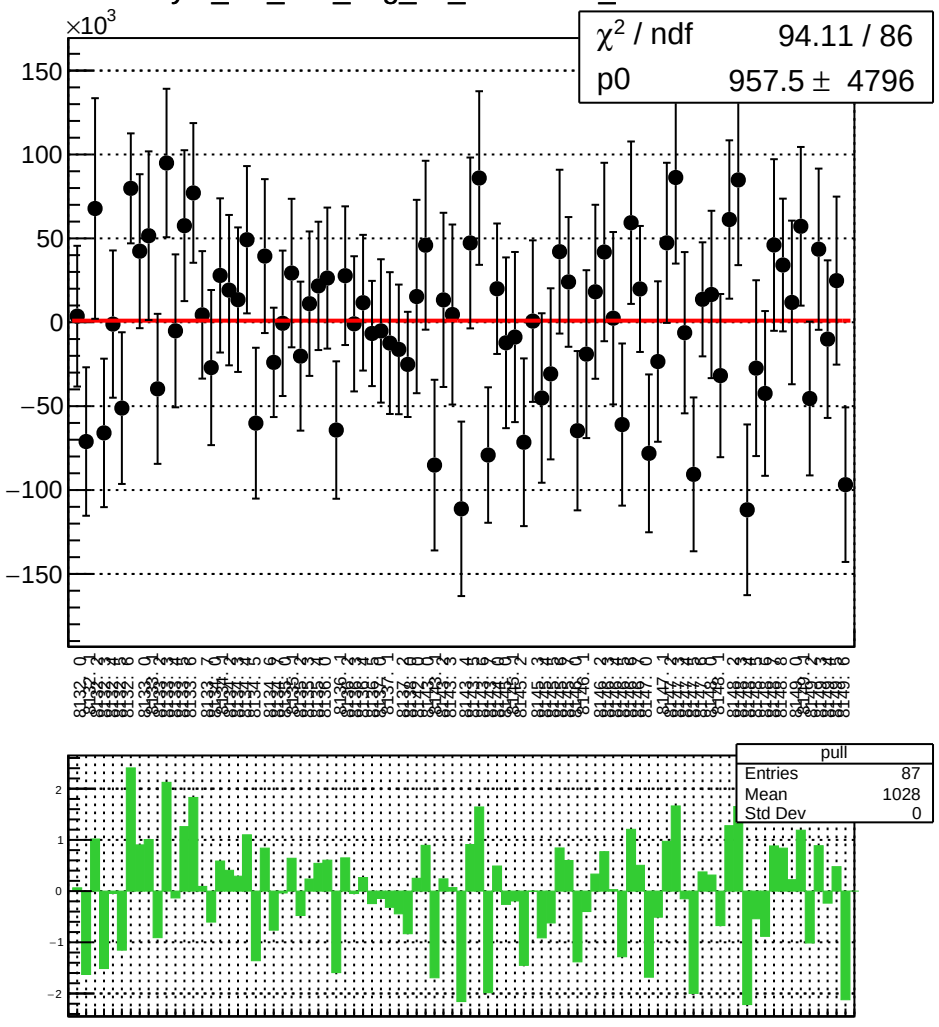

pull1D
Entries 87
Mean −0.003034
Std Dev 1.042
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

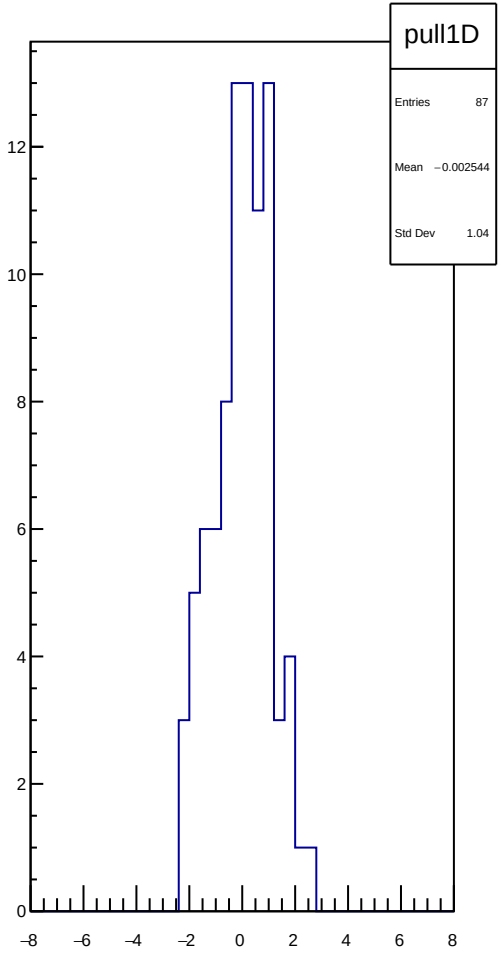

asym_usl_atl2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.226e+04 / 86
p0 4423 ± 3.386
6500
6000
5500
5000
4500
4000
3500

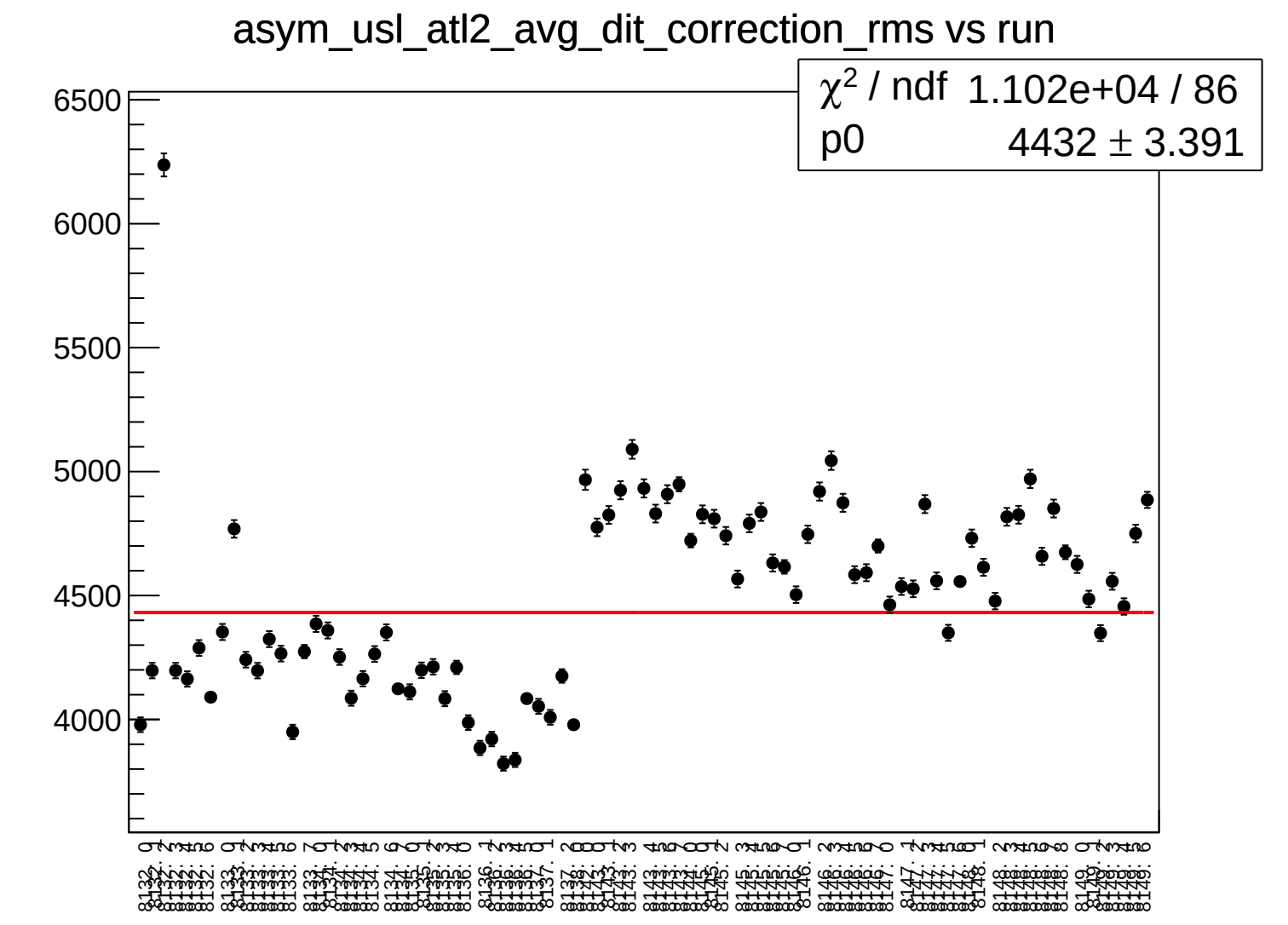

dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 81.99 / 86
p0 2682 ± 1557
pull
Entries 87
Mean 277.3
Std Dev 0

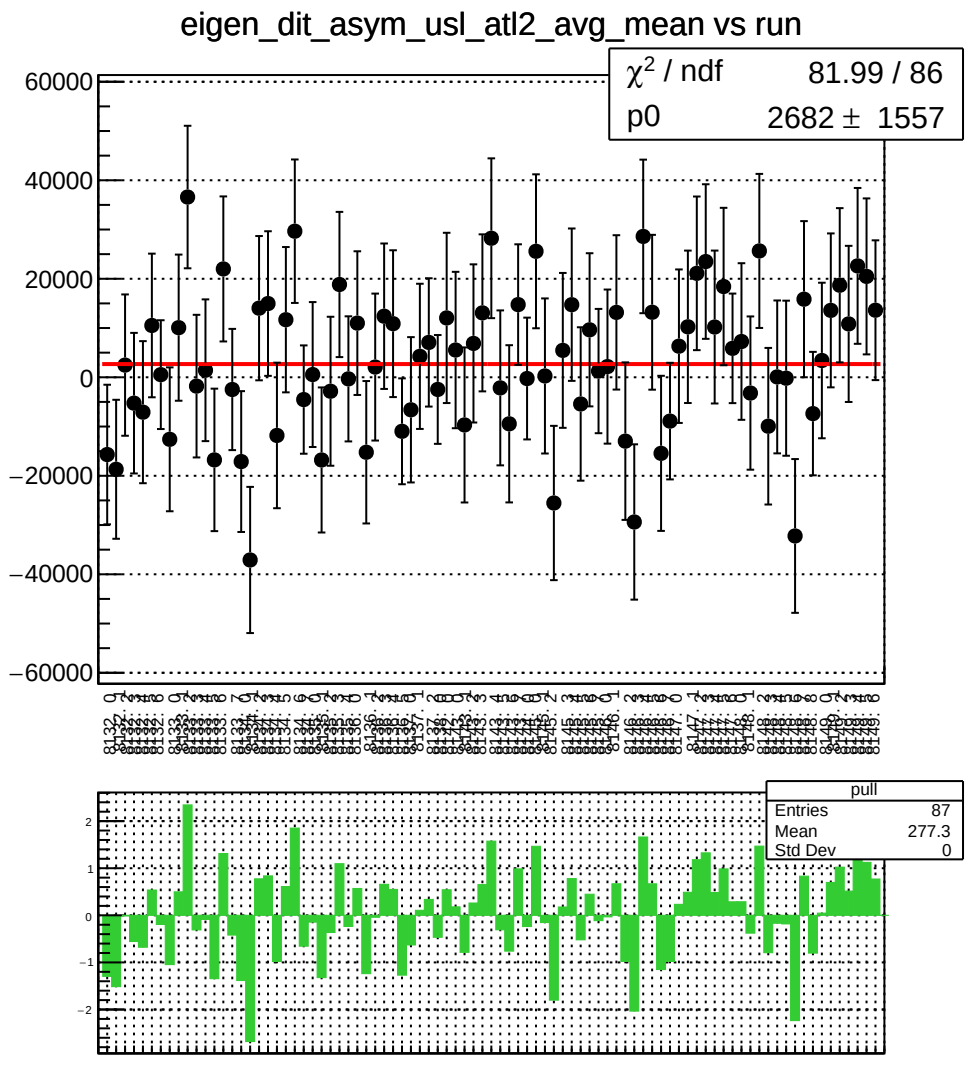

pull1D
Entries 87
Mean 0.02154
Std Dev 0.9705

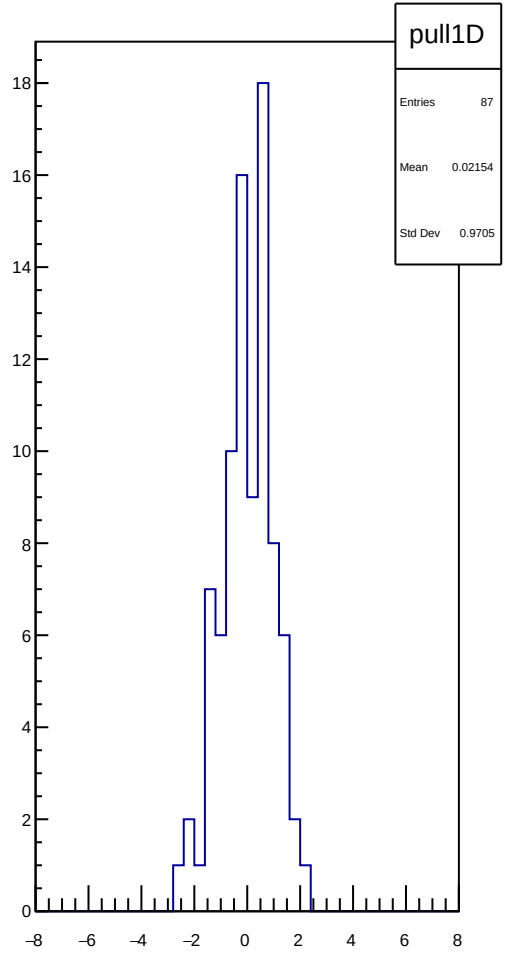

dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 2528 / 86
p0 1442 ± 1.101
1550
1500
1450
1400
1350

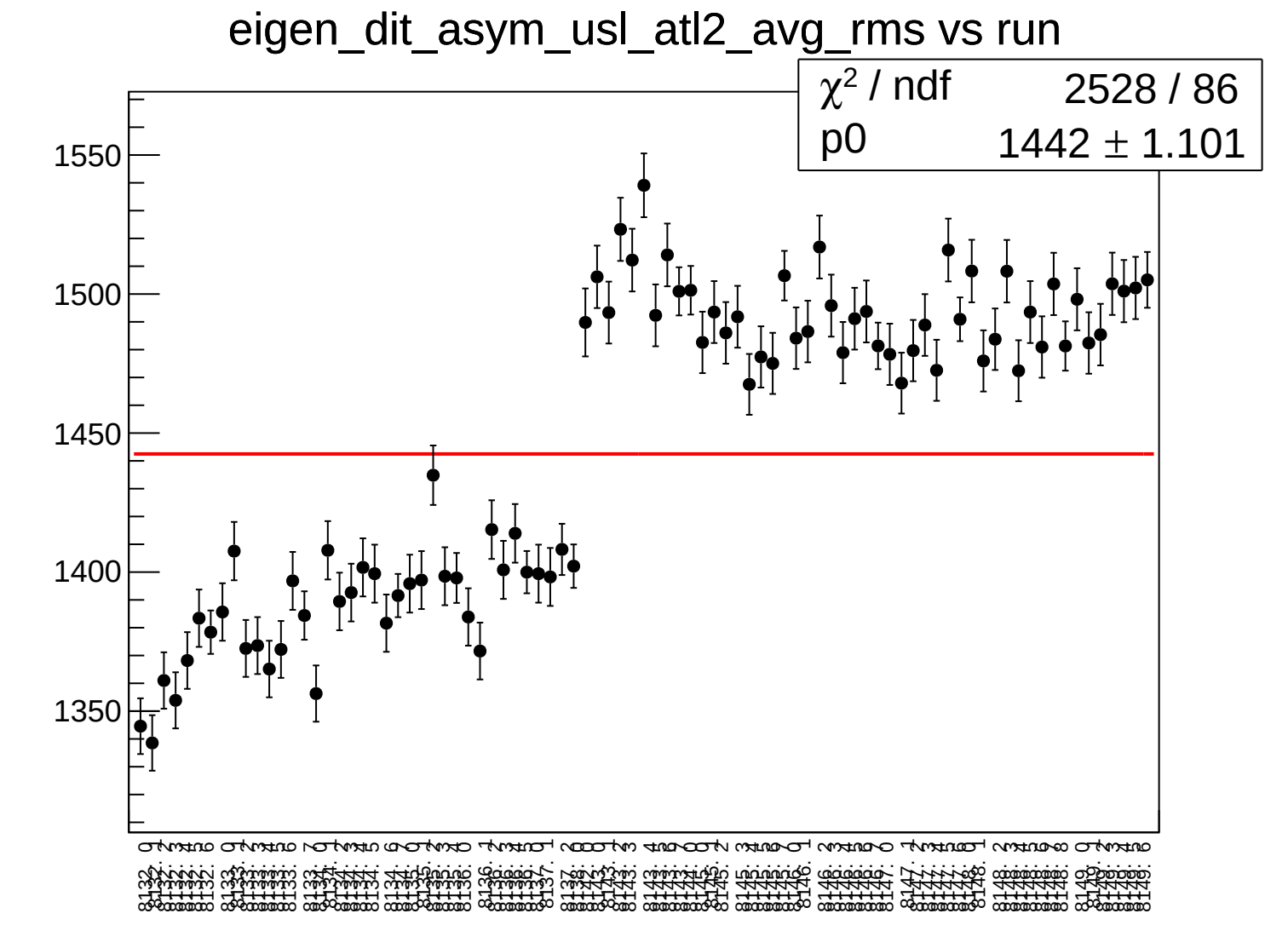

asym_usl_atl2_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 94.11 / 86
p0 957.5 ± 4796
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean 1028
Std Dev 0
2
1
0
−1
−2

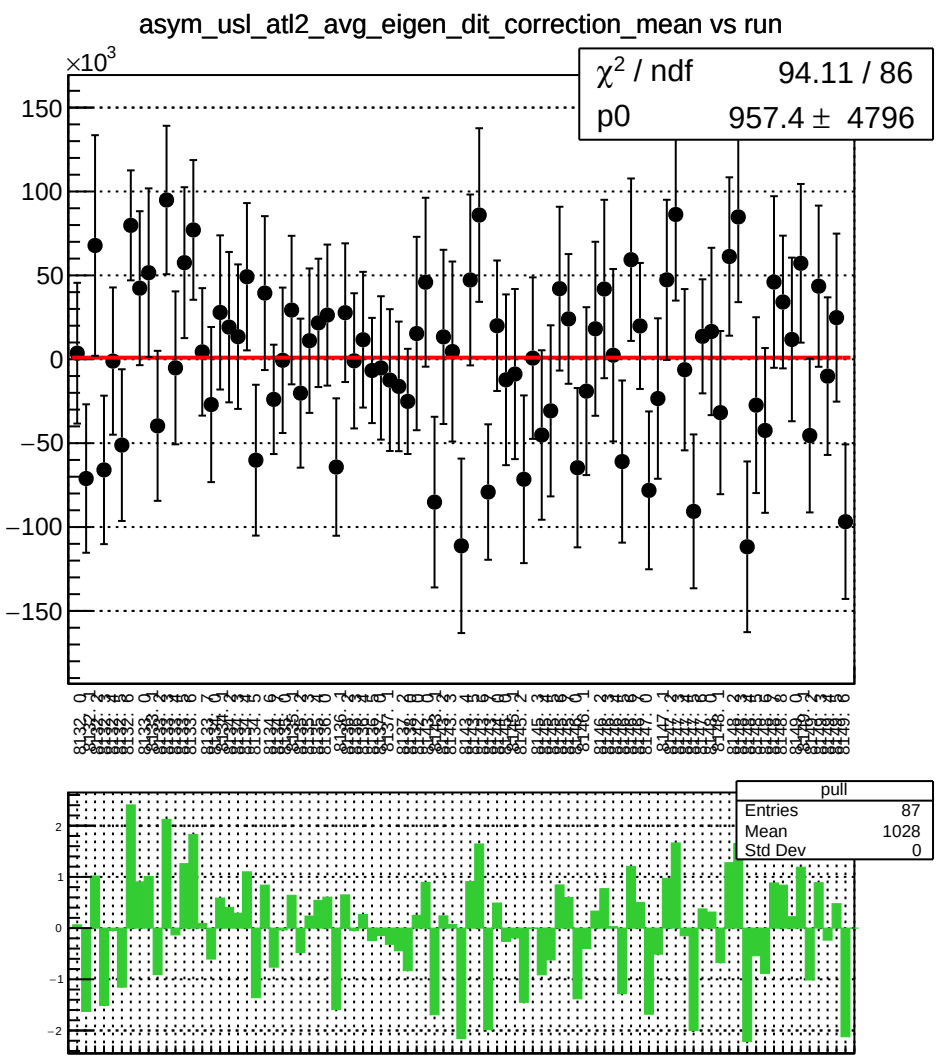

pull1D
Entries 87
Mean −0.002544
Std Dev 1.04
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

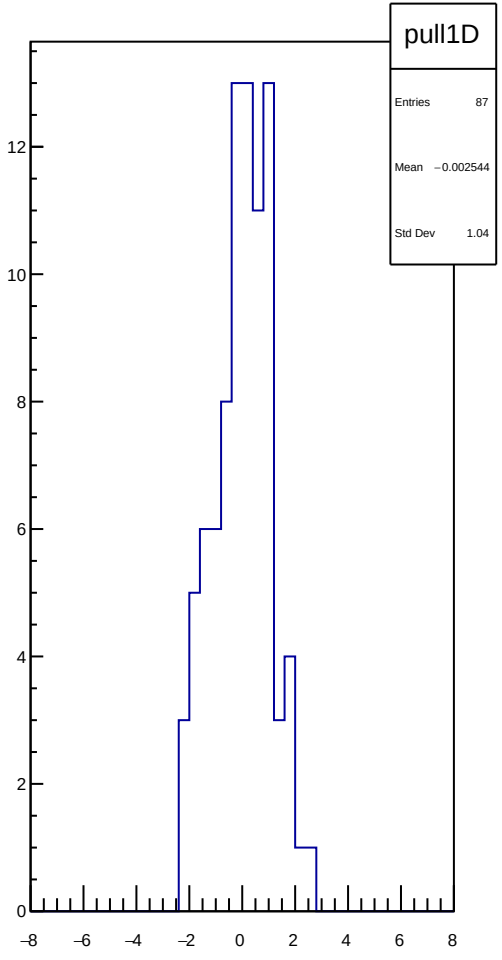

asym_usl_atl2_avg_dit_correction_rms vs run
χ² / ndf 1.102e+04 / 86
p0 4432 ± 3.391
6500
6000
5500
5000
4500
4000

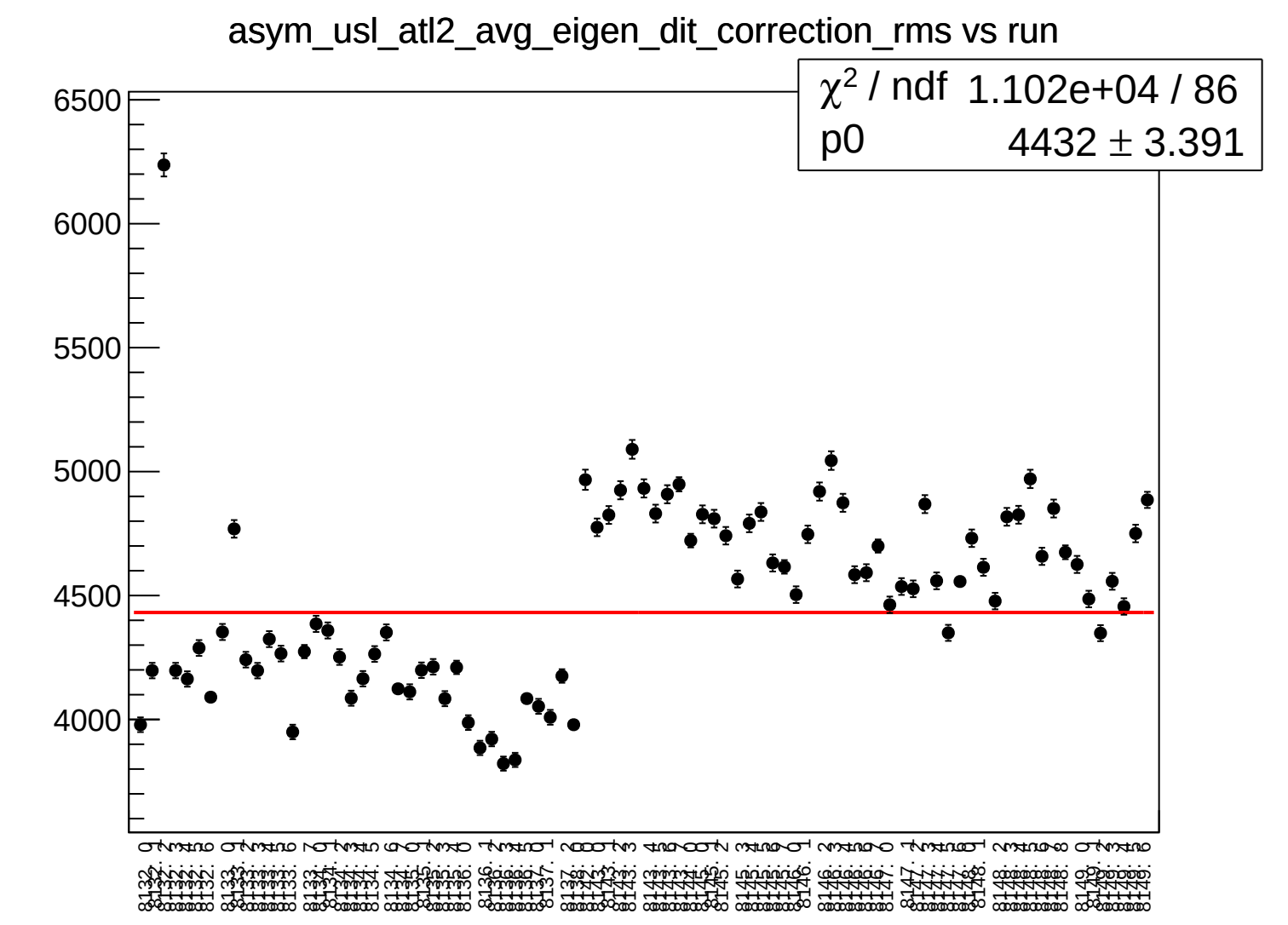

eigen_dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 81.99 / 86
p0 2682 ± 1557
pull
Entries 87
Mean 277.3
Std Dev 0

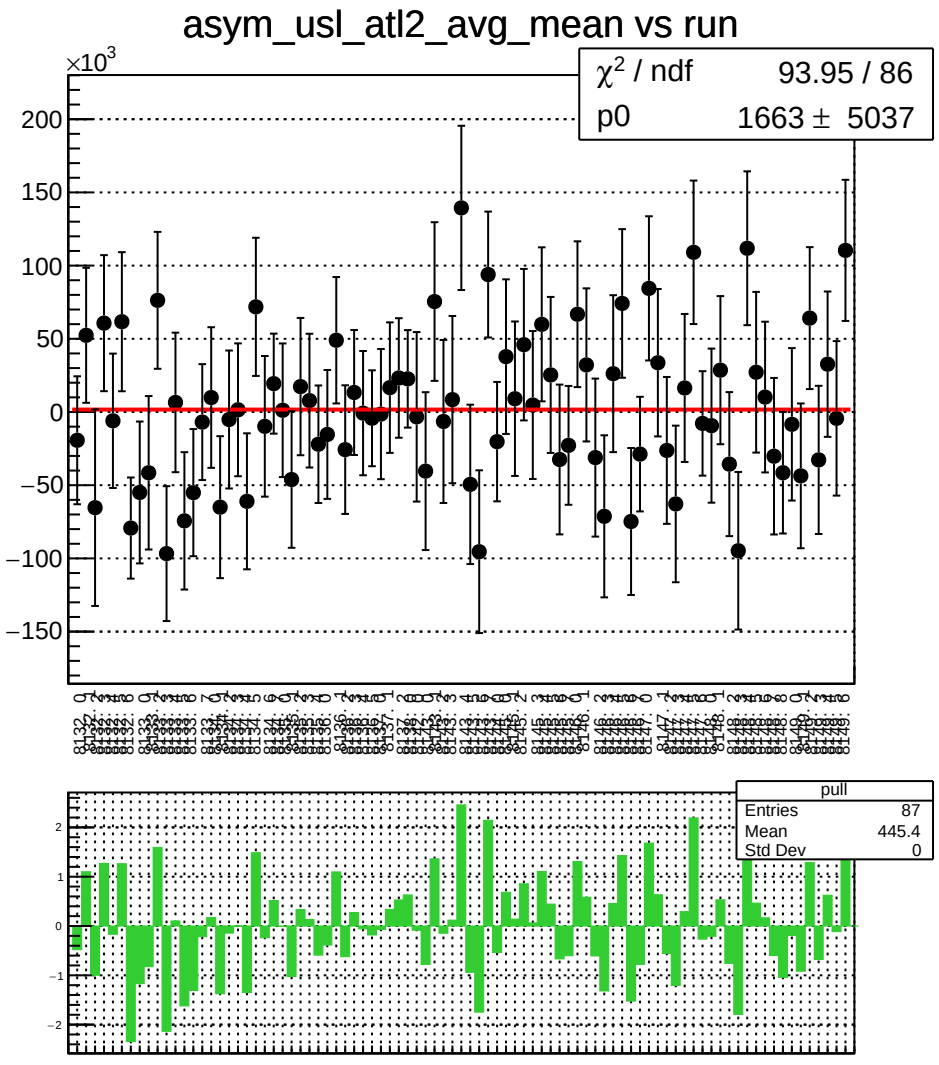

pull1D
Entries 87
Mean 0.02154
Std Dev 0.9705

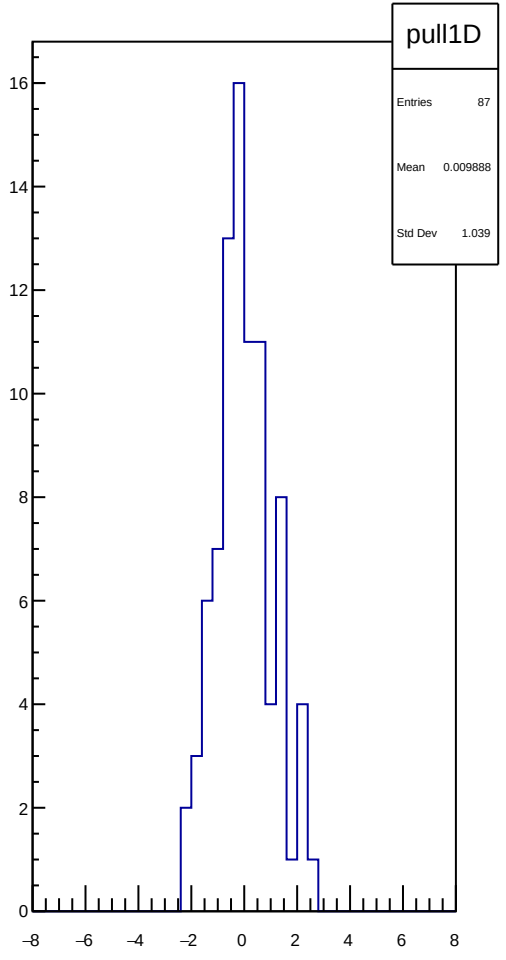

eigen_dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 2528 / 86
p0 1442 ± 1.101
1550
1500
1450
1400
1350

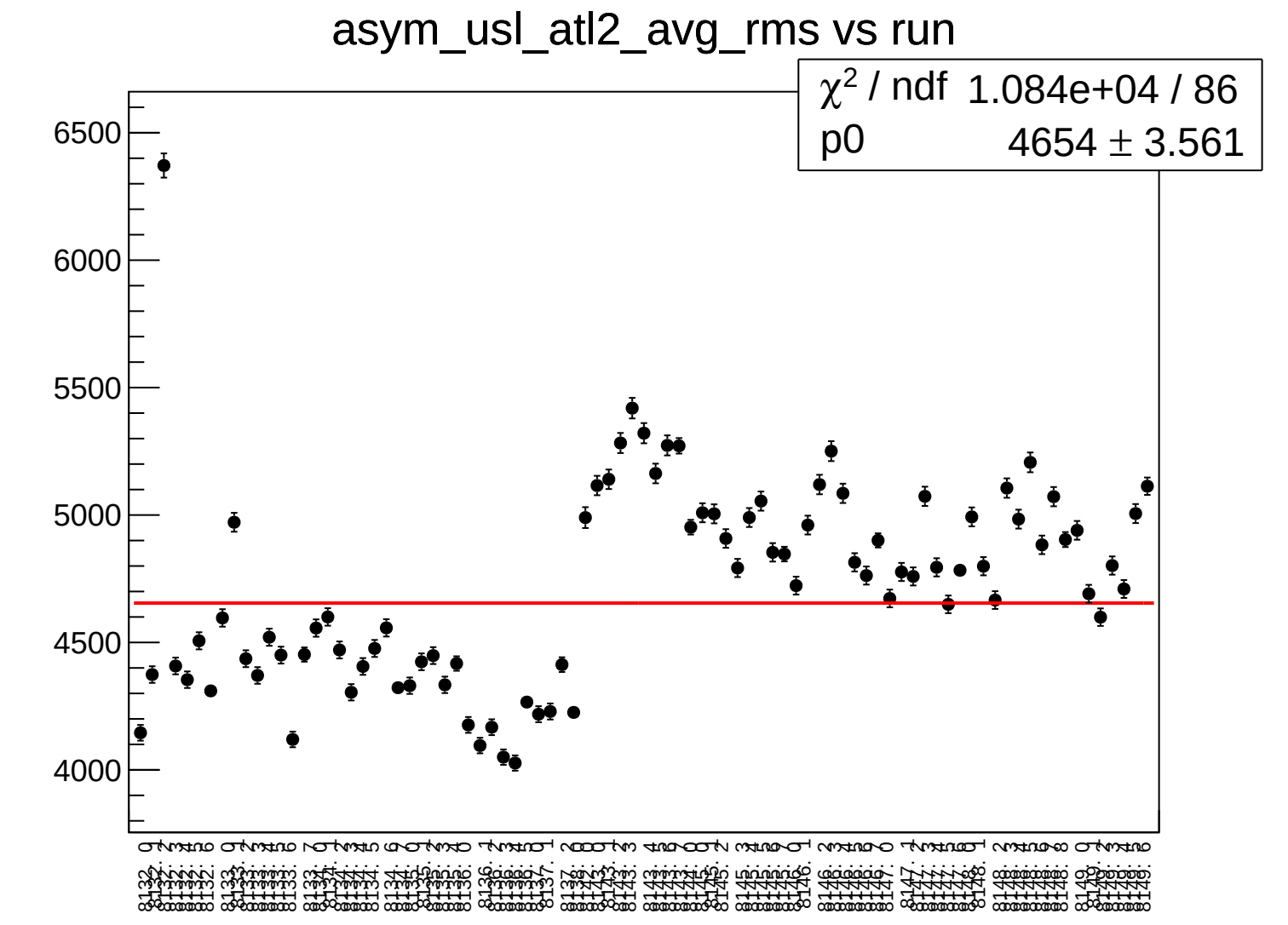

asym_usl_atl2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 94.11 / 86
p0 957.4 ± 4796
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean 1028
Std Dev 0
2
1
0
−1
−2

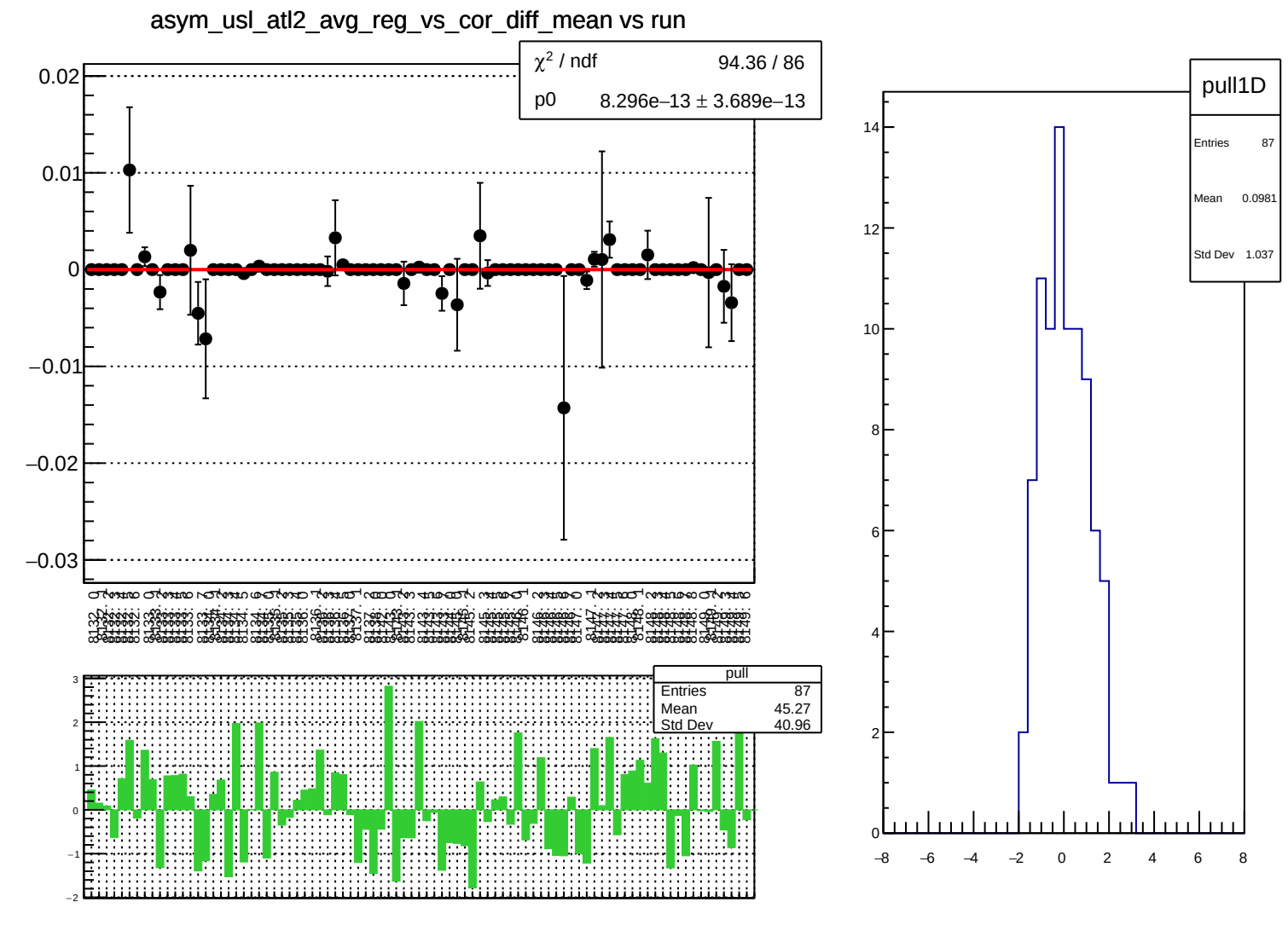

pull1D
Entries 87
Mean −0.002544
Std Dev 1.04
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

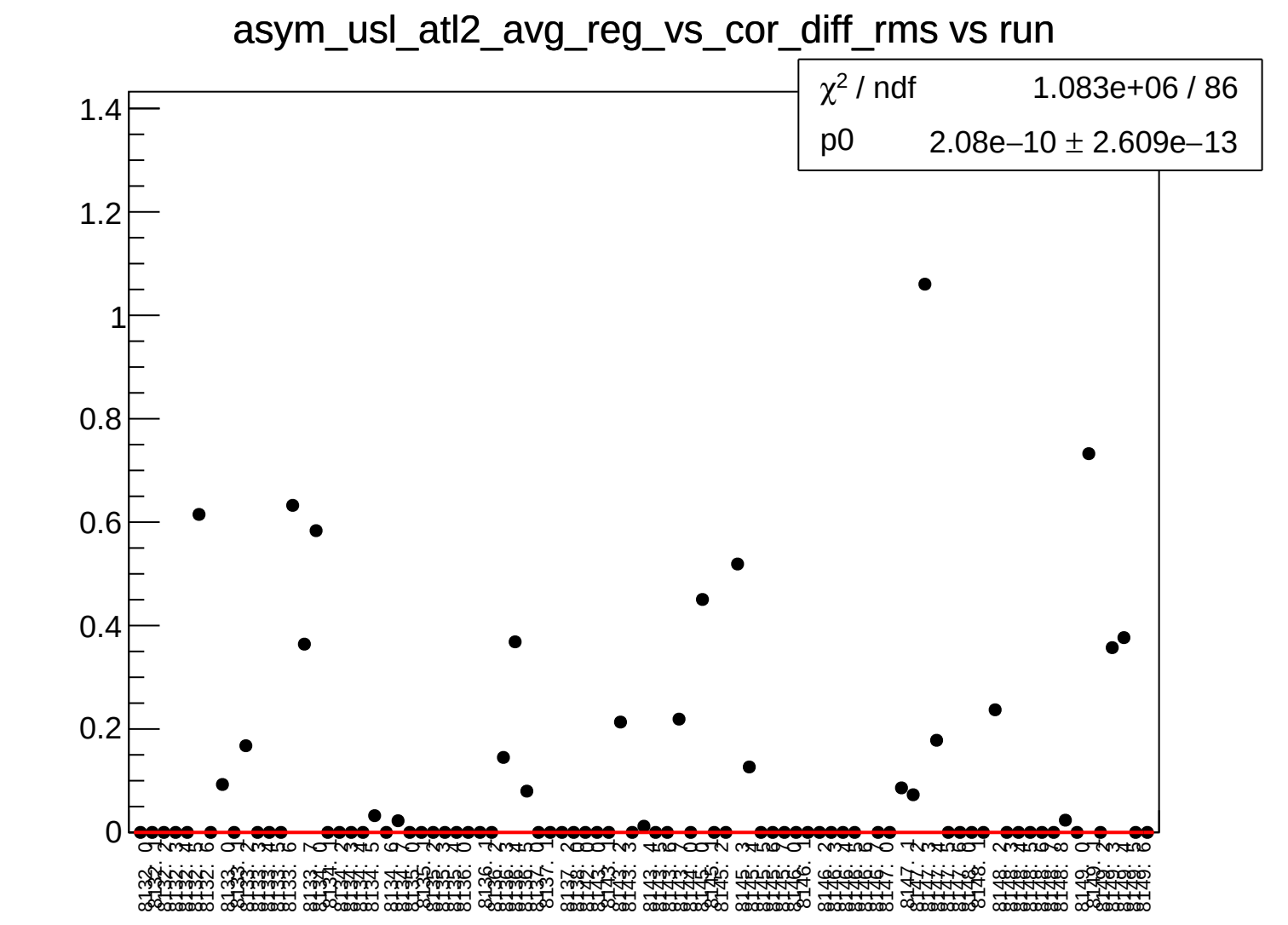

asym_usl_atl2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.102e+04 / 86
p0 4432 ± 3.391
6500
6000
5500
5000
4500
4000

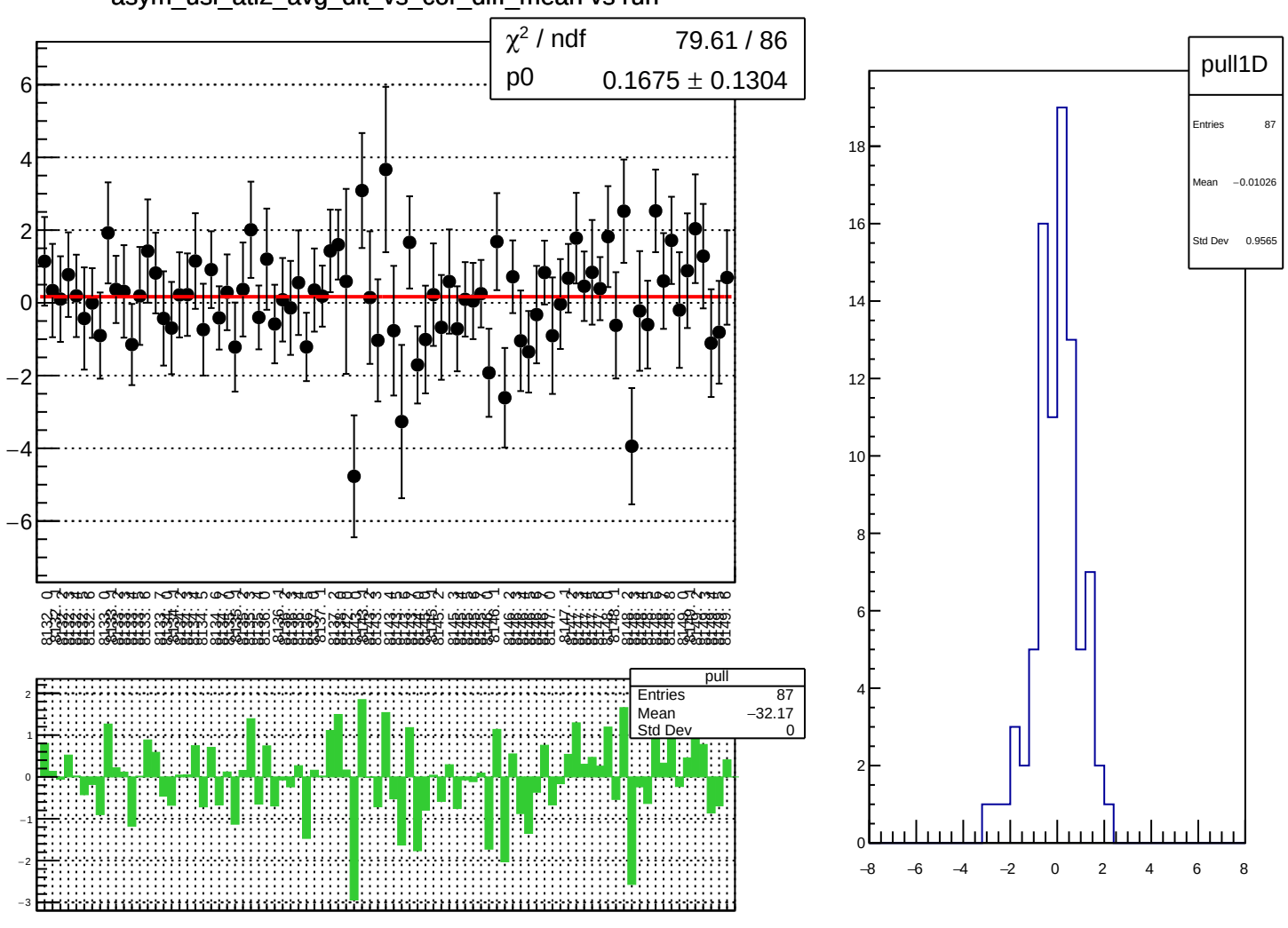

asym_usl_atl2_avg_mean vs run
χ² / ndf 93.95 / 86
p0 1663 ± 5037
×10³
200
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean 445.4
Std Dev 0
2
1
0
−1
−2

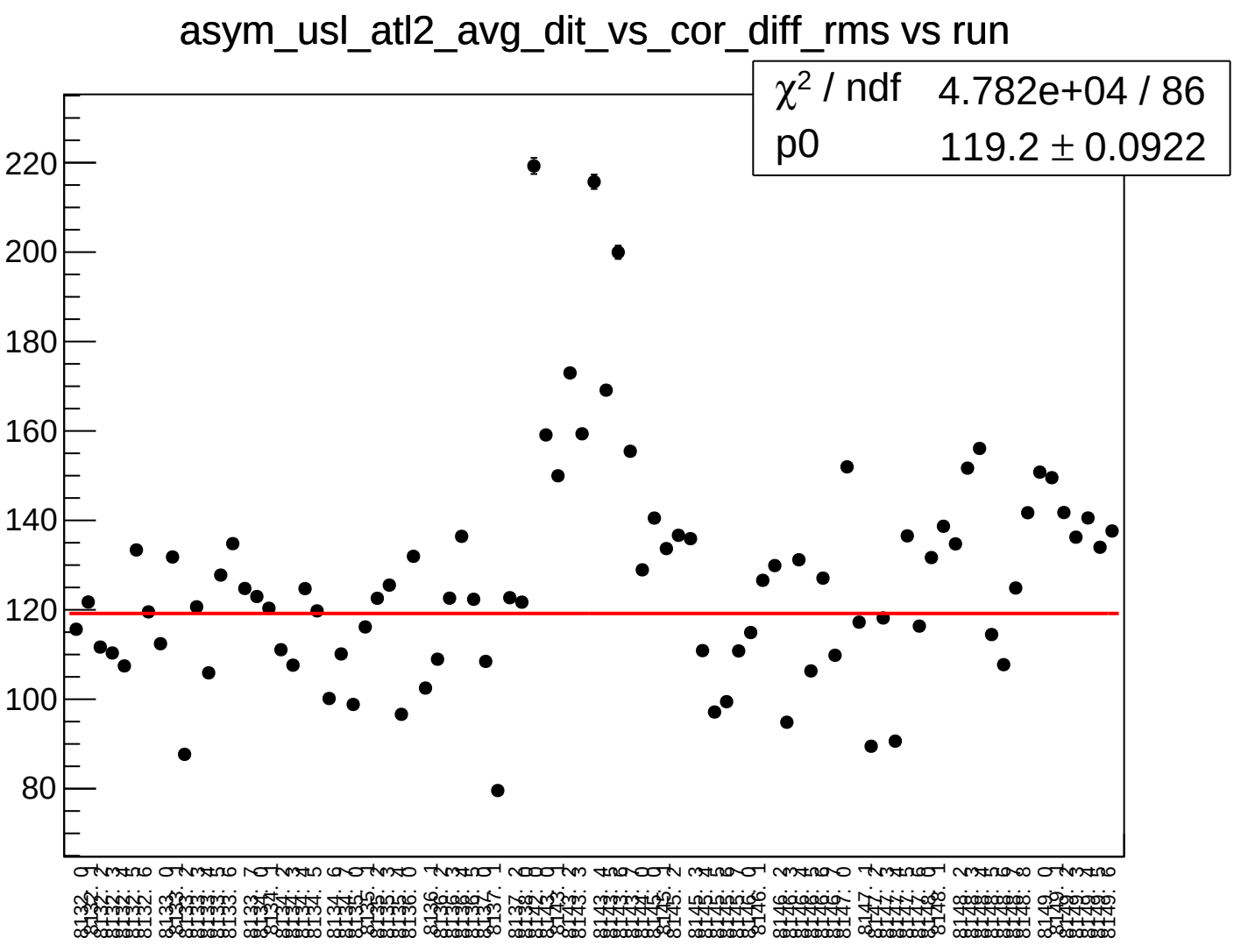

pull1D
Entries 87
Mean 0.009888
Std Dev 1.039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

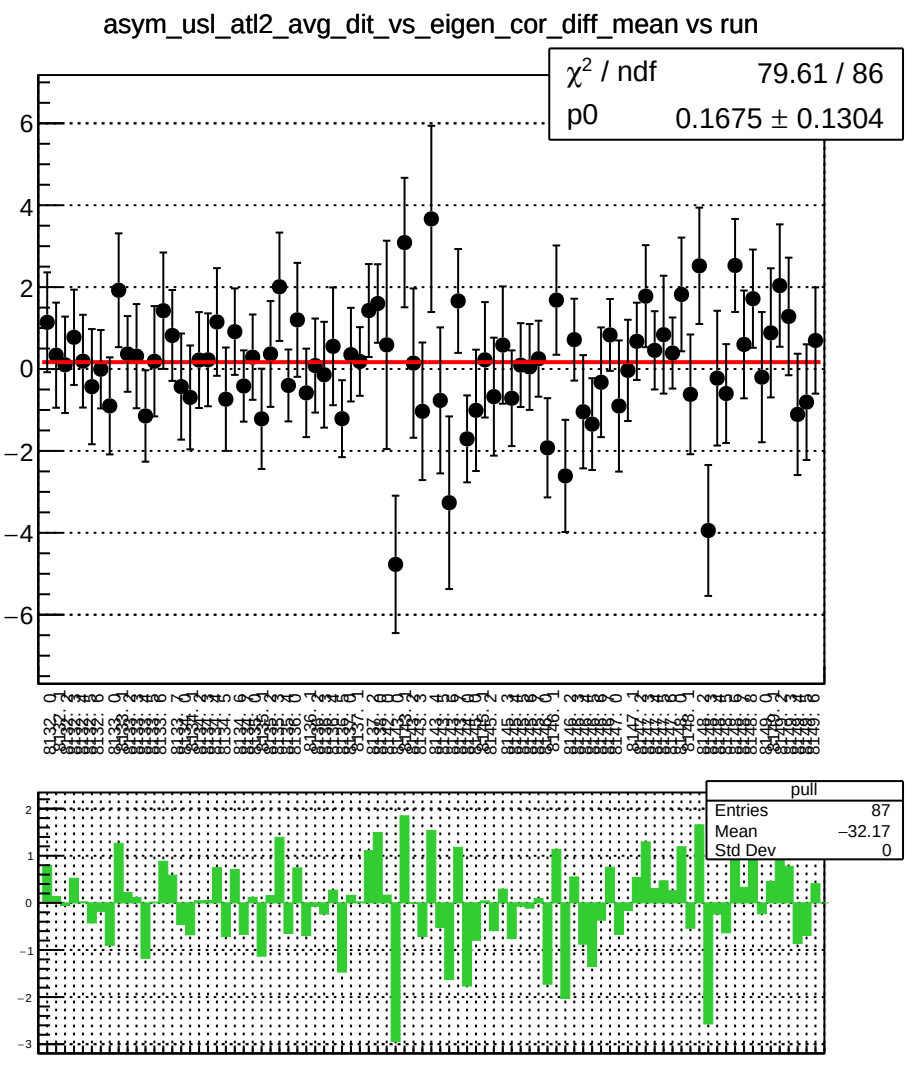

asym_usl_atl2_avg_rms vs run
χ² / ndf 1.084e+04 / 86
p0 4654 ± 3.561
6500
6000
5500
5000
4500
4000

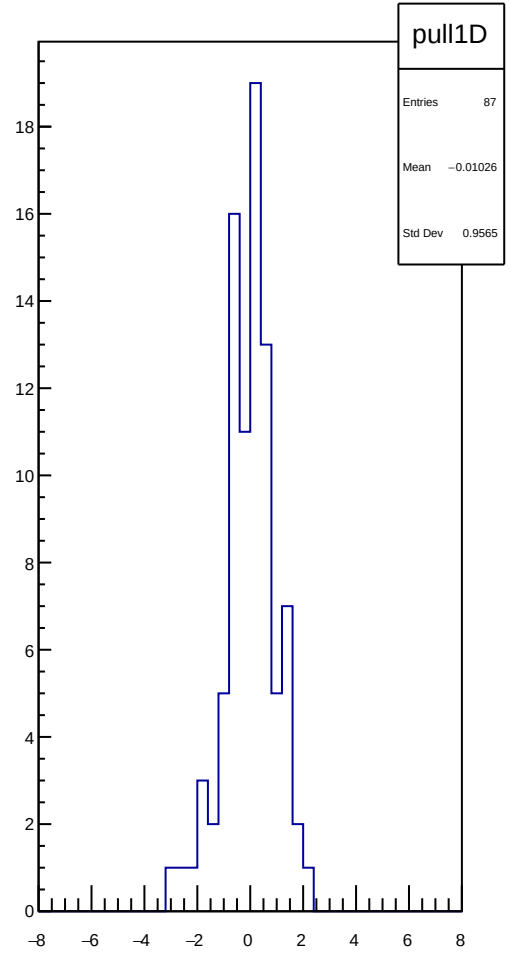

asym_usl_atl2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 94.36 / 86
p0 8.296e−13 ± 3.689e−13
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 87
Mean 45.27
Std Dev 40.96
pull1D
Entries 87
Mean 0.0981
Std Dev 1.037
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

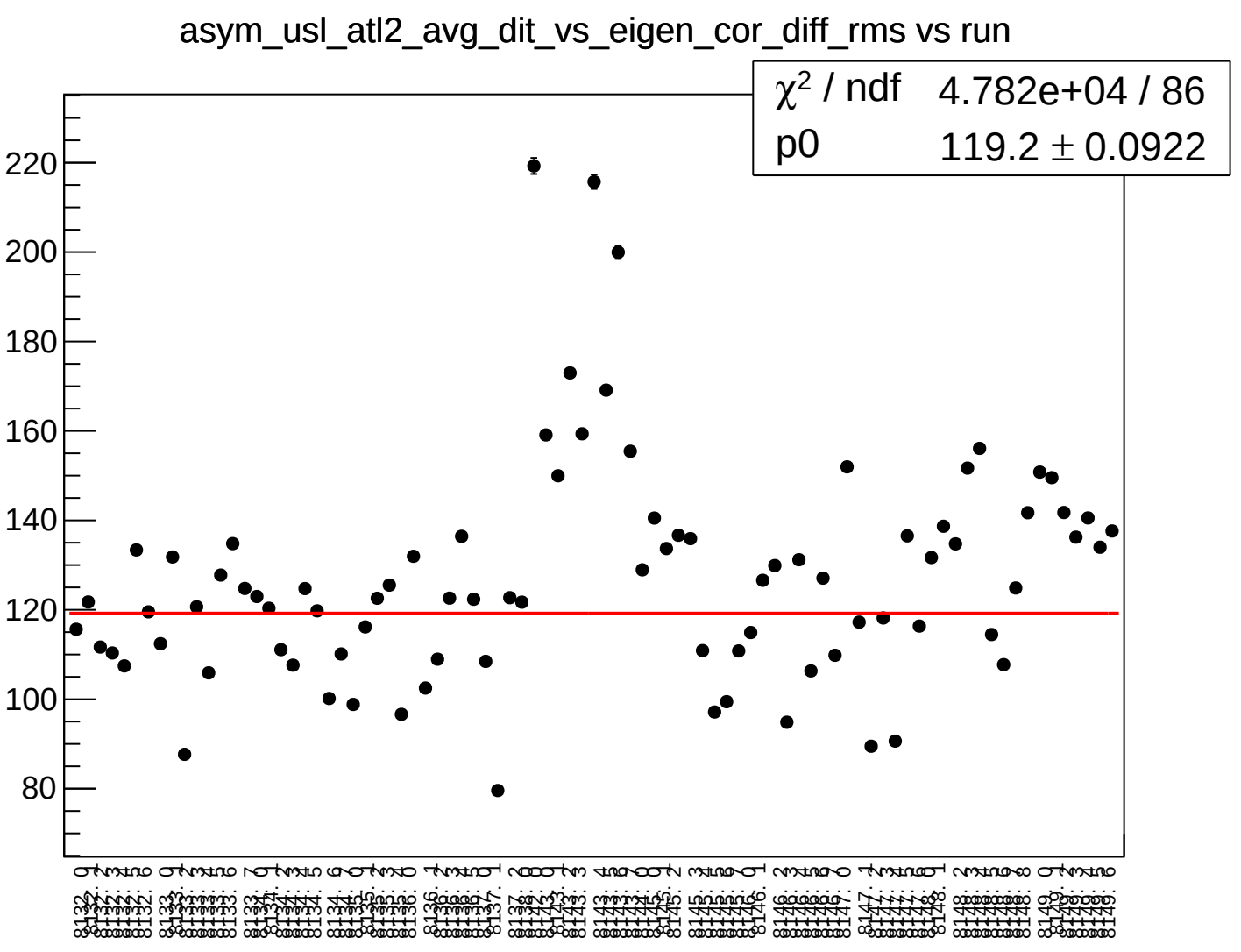

asym_usl_atl2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.083e+06 / 86
p0 2.08e−10 ± 2.609e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

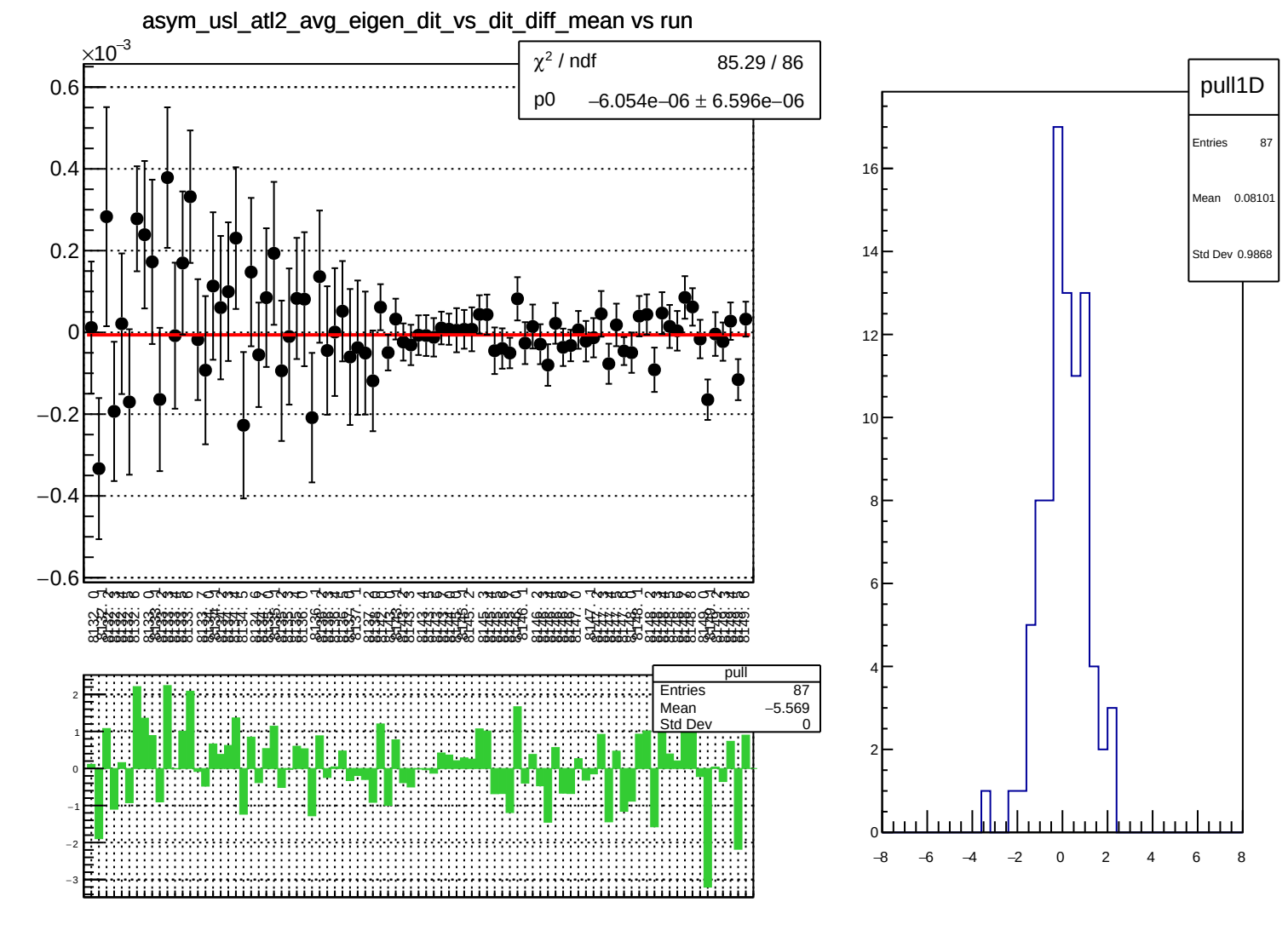

asym_usl_atl2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 79.61 / 86
p0 0.1675 ± 0.1304
pull
Entries 87
Mean −32.17
Std Dev 0
pull1D
Entries 87
Mean −0.01026
Std Dev 0.9565

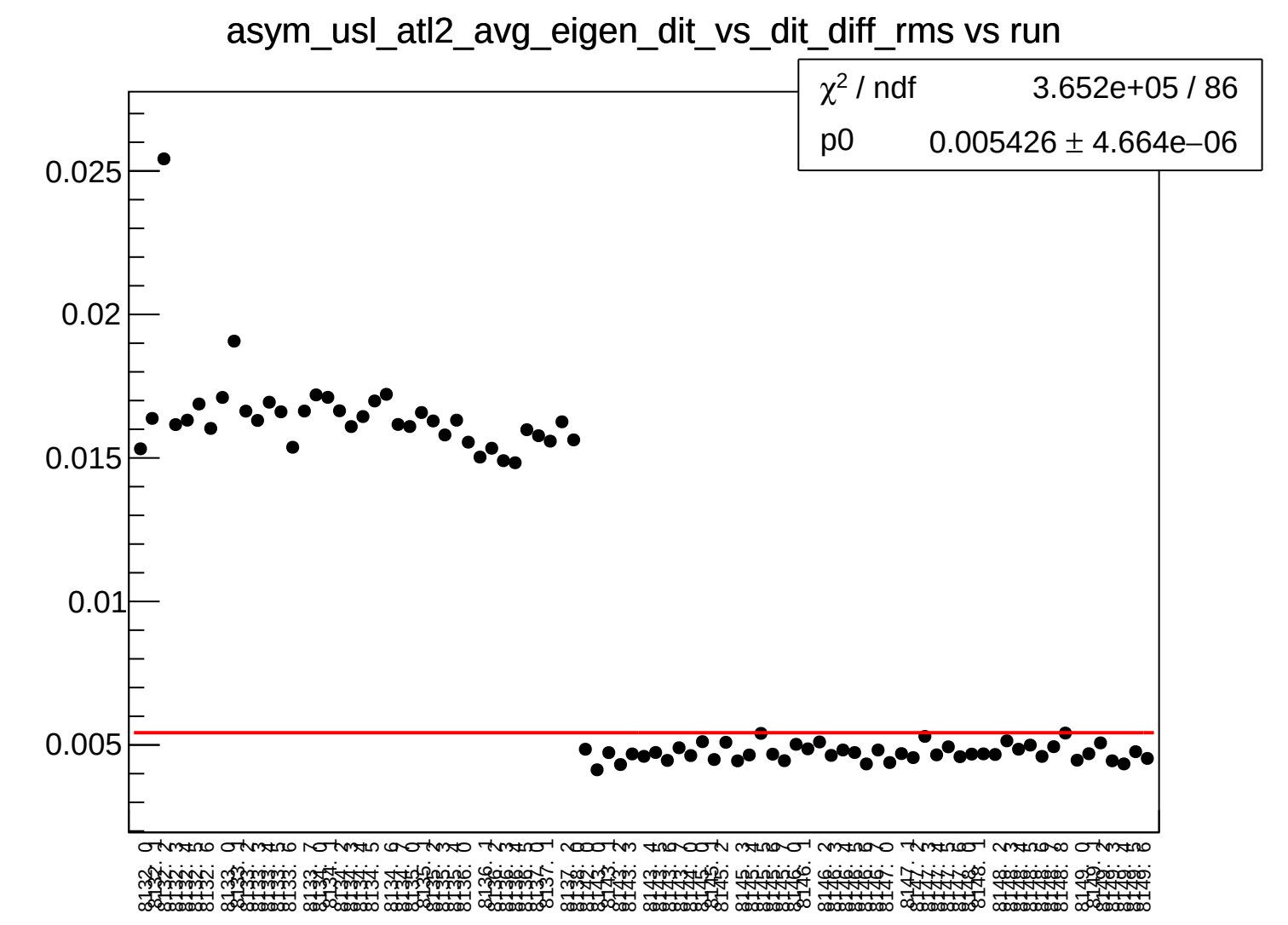

asym_usl_atl2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.782e+04 / 86
p0 119.2 ± 0.0922
220
200
180
160
140
120
100
80

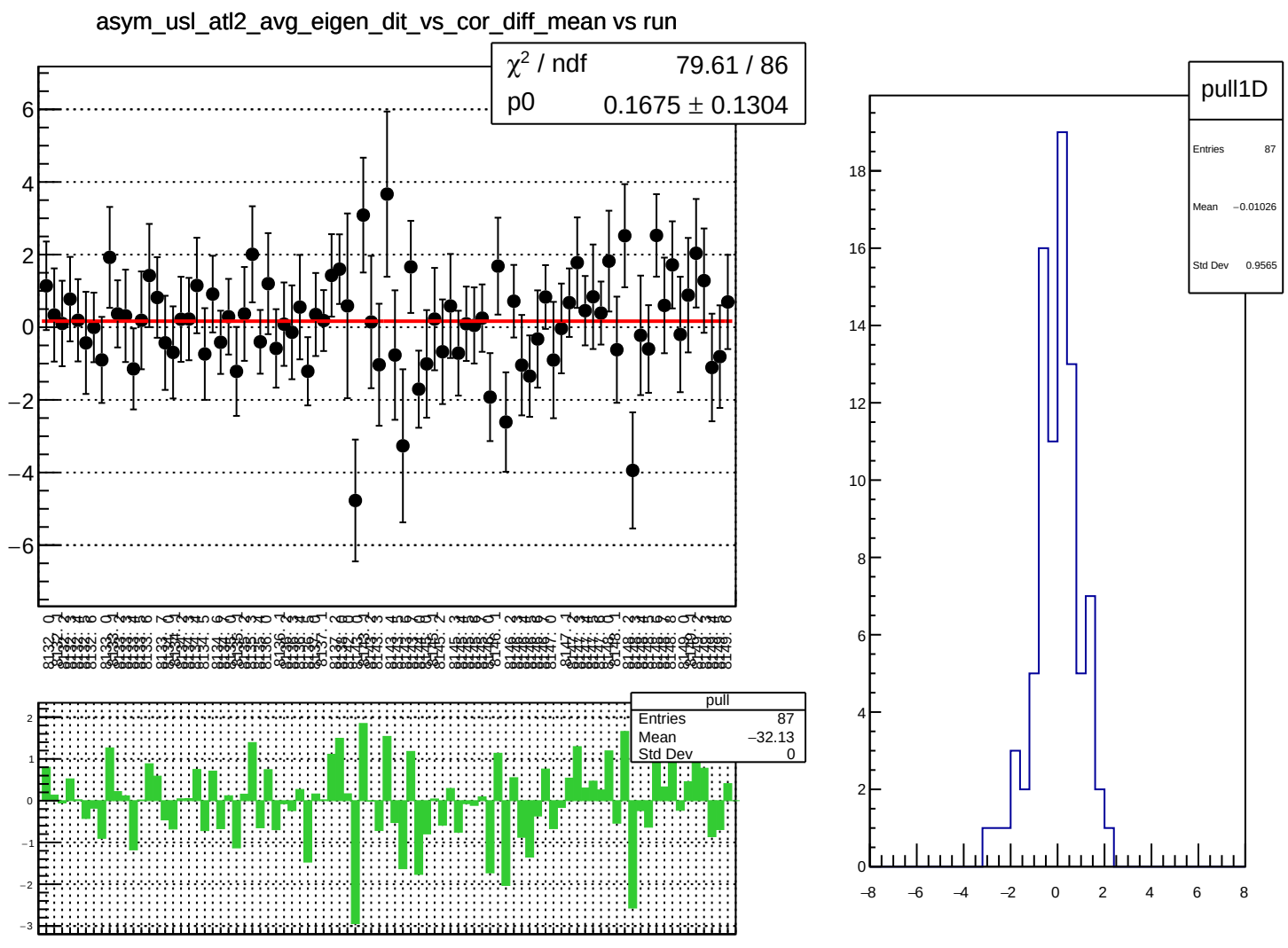

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.61 / 86
p0 0.1675 ± 0.1304
pull
Entries 87
Mean −32.17
Std Dev 0

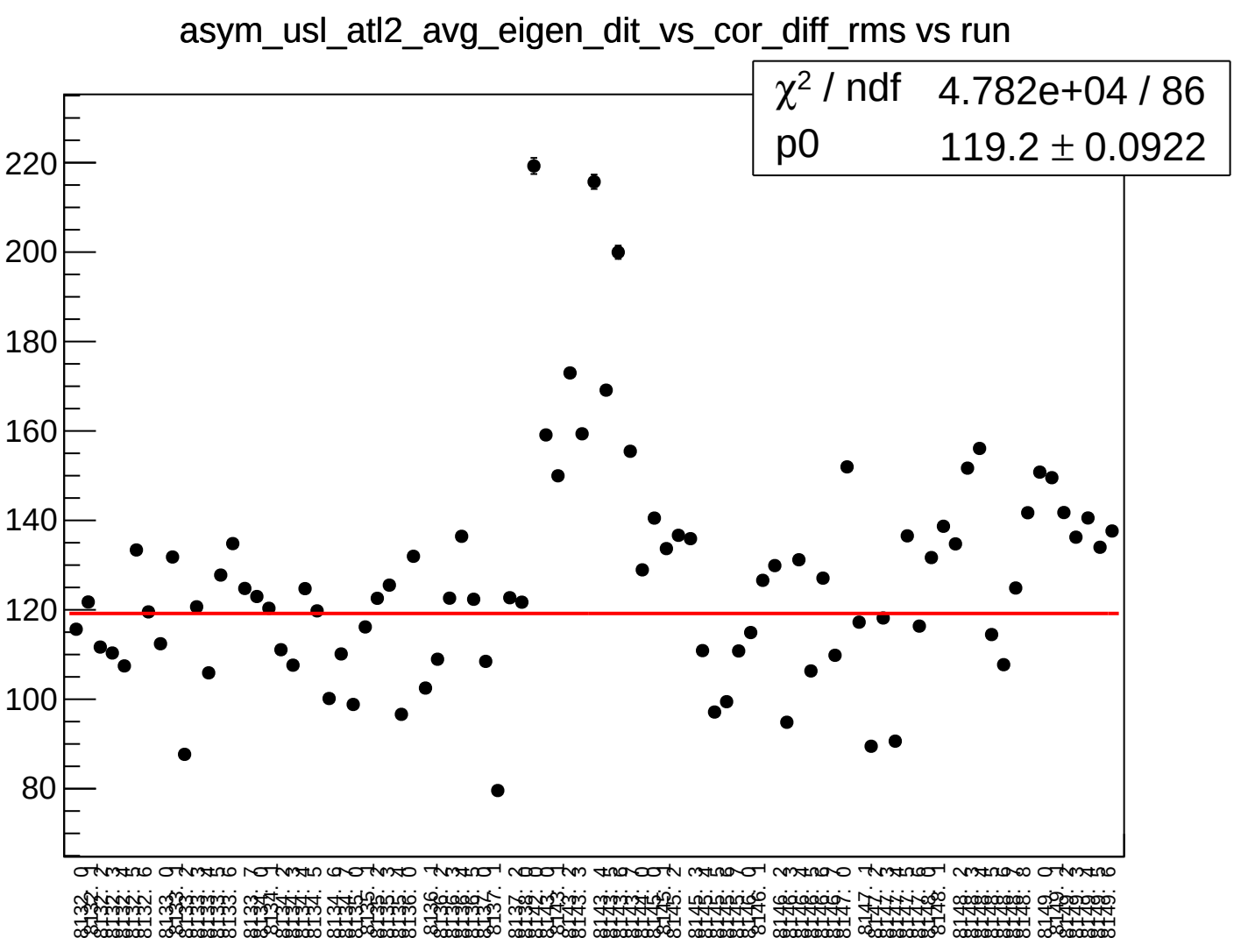

pull1D
Entries 87
Mean −0.01026
Std Dev 0.9565

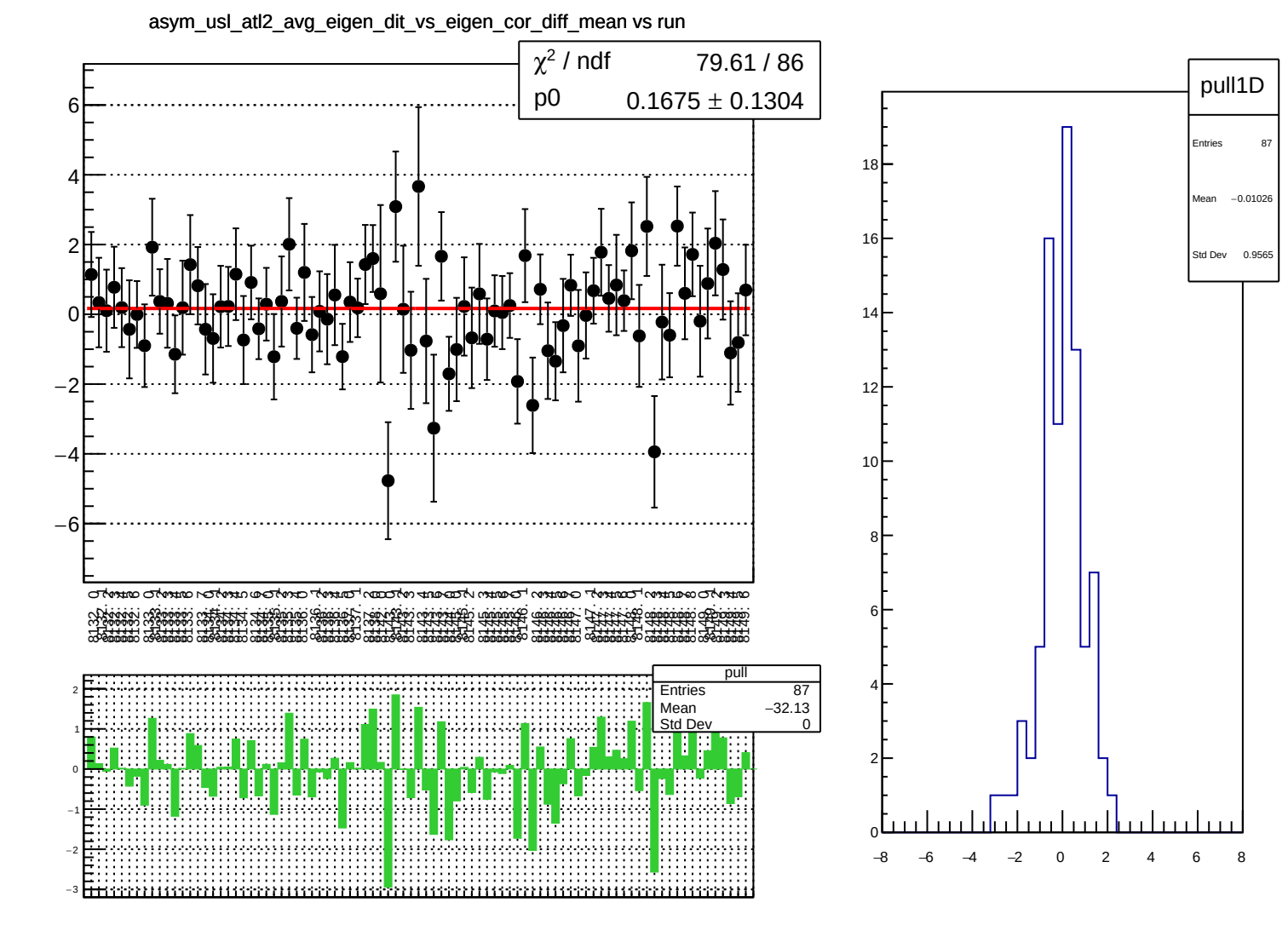

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.782e+04 / 86
p0 119.2 ± 0.0922
220
200
180
160
140
120
100
80

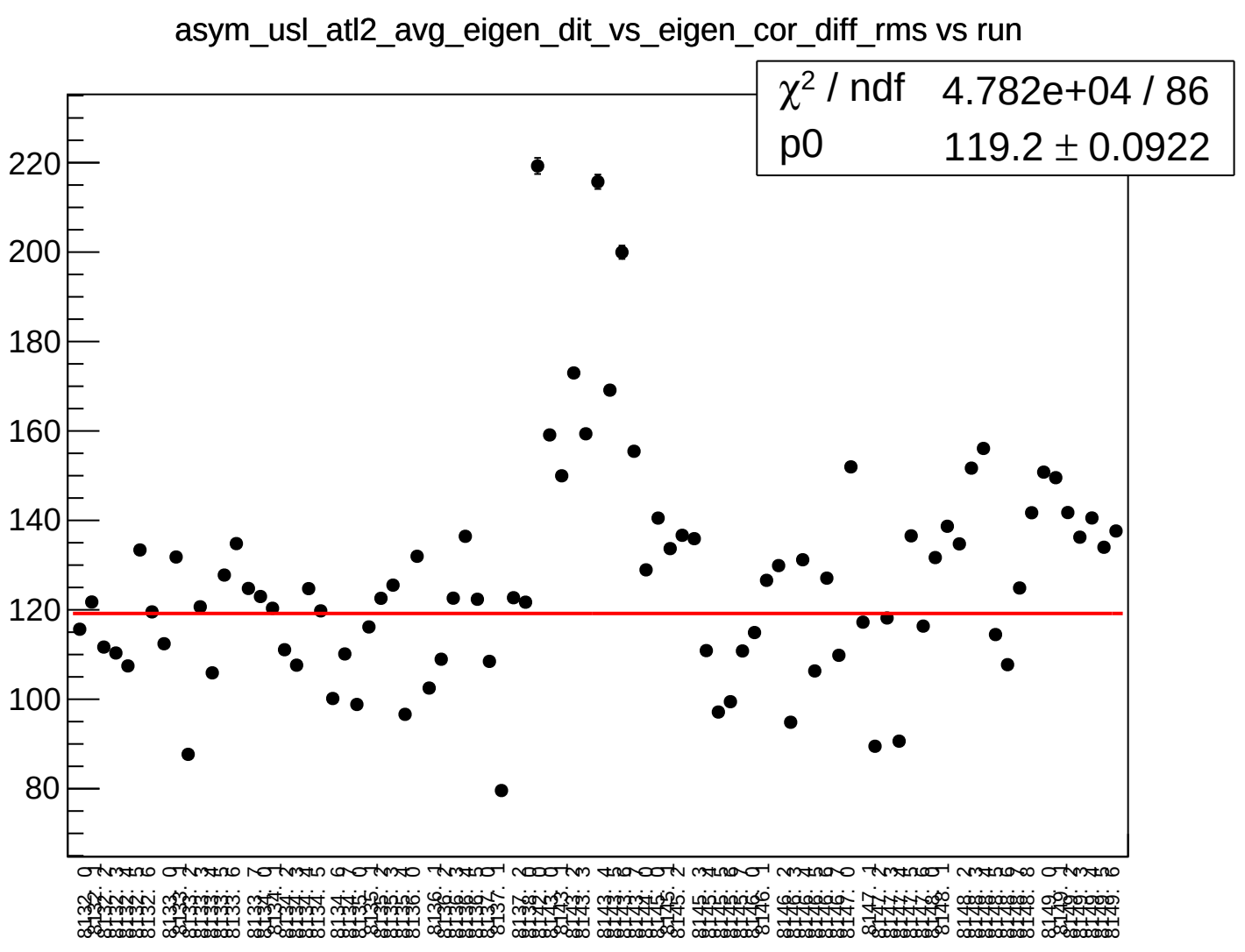

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.29 / 86
p0 −6.054e−06 ± 6.596e−06
pull
Entries 87
Mean −5.569
Std Dev 0
pull1D
Entries 87
Mean 0.08101
Std Dev 0.9868

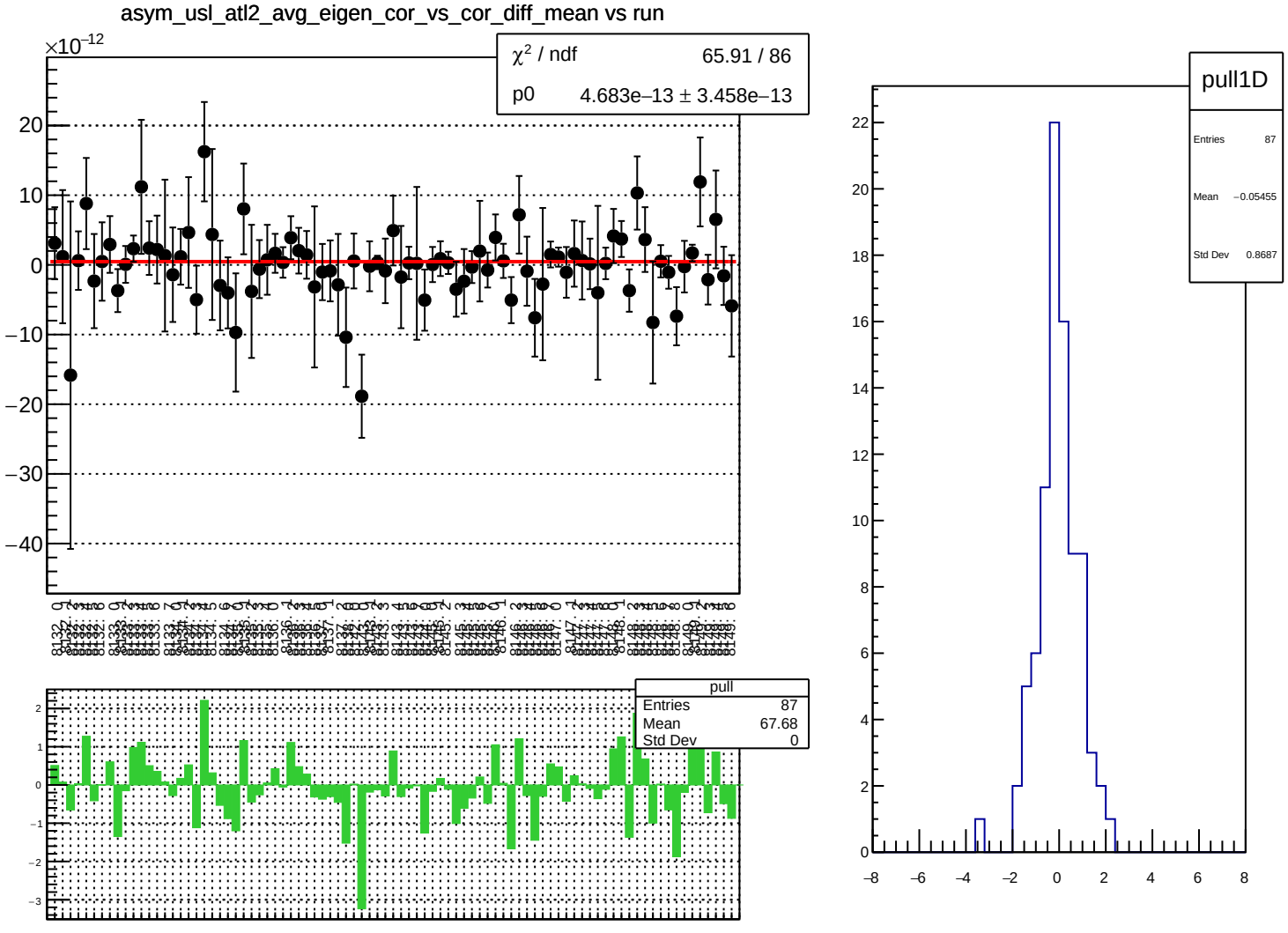

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.652e+05 / 86
p0 0.005426 ± 4.664e−06
0.025
0.02
0.015
0.01
0.005

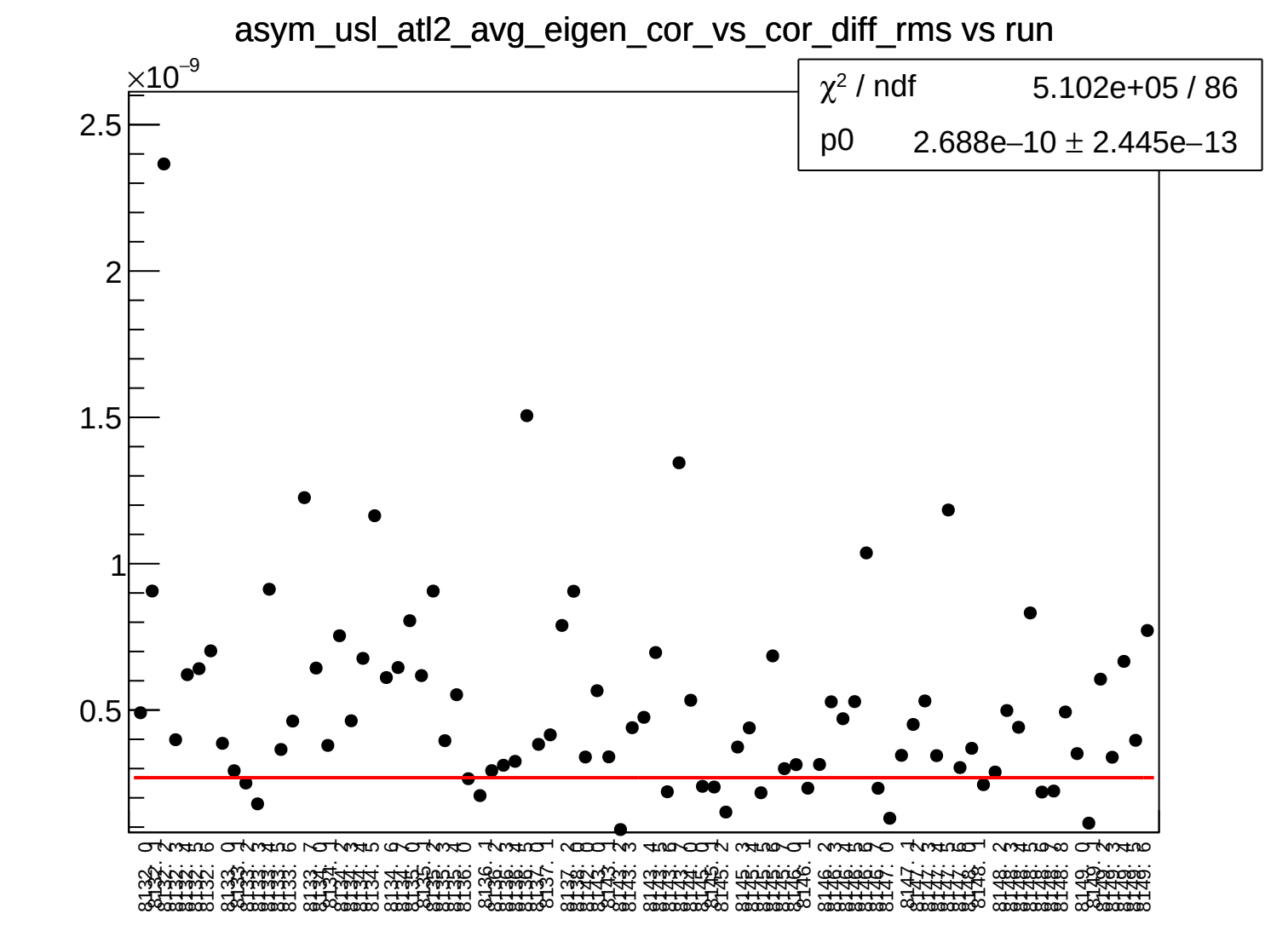

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.61 / 86
p0 0.1675 ± 0.1304
pull
Entries 87
Mean −32.13
Std Dev 0
pull1D
Entries 87
Mean −0.01026
Std Dev 0.9565

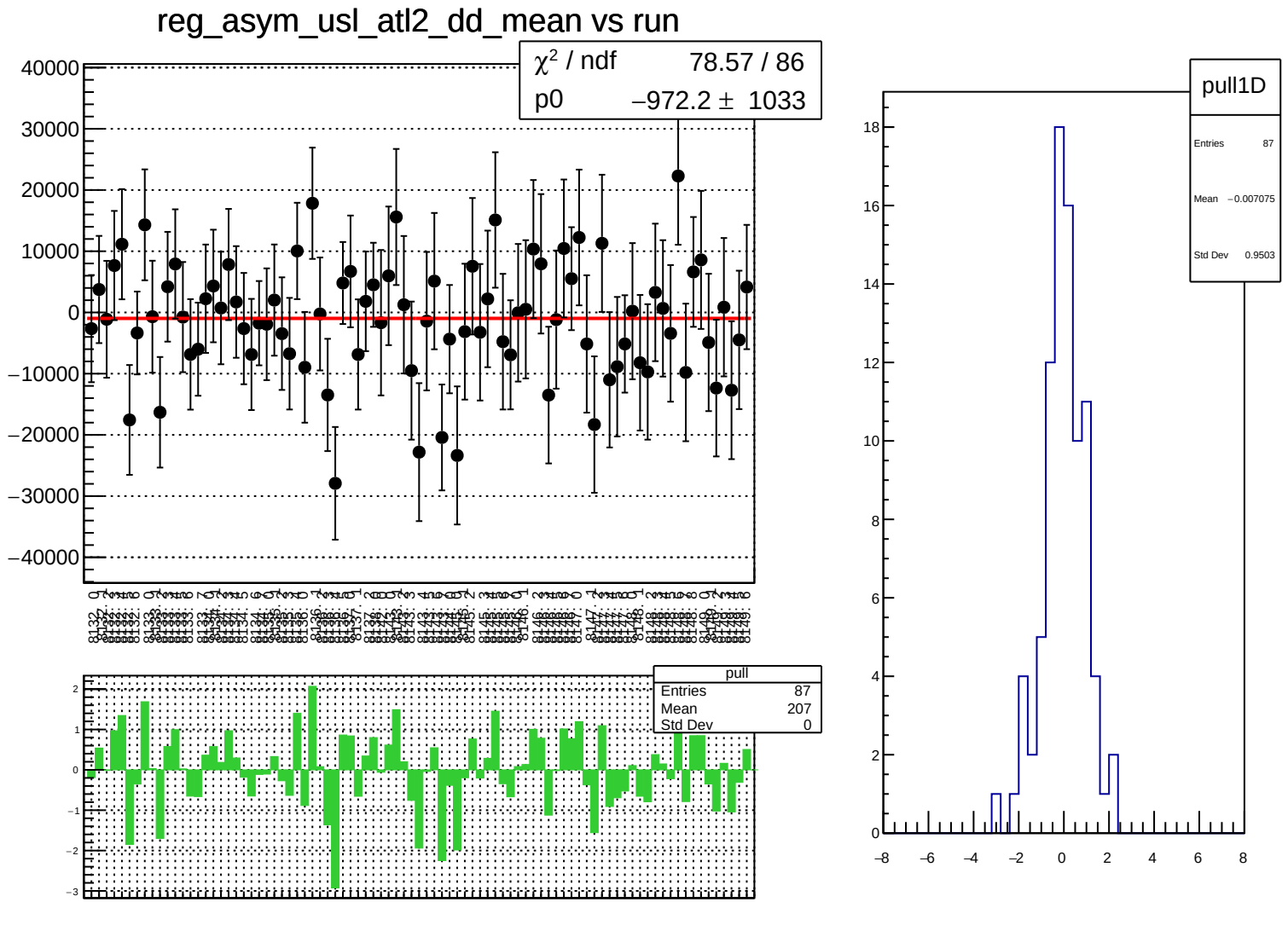

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.782e+04 / 86
p0 119.2 ± 0.0922
220
200
180
160
140
120
100
80

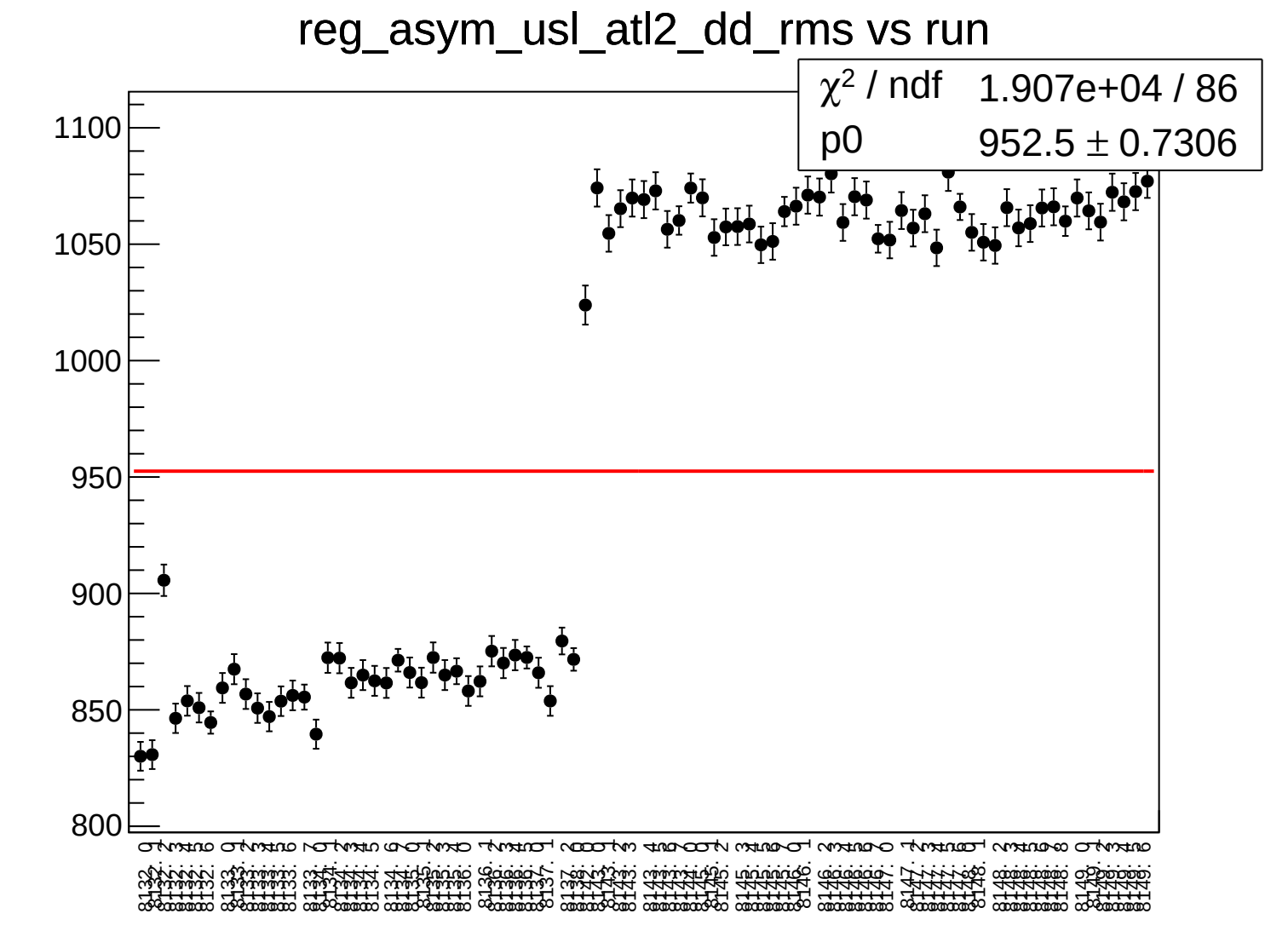

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.61 / 86
p0 0.1675 ± 0.1304
pull
Entries 87
Mean −32.13
Std Dev 0
pull1D
Entries 87
Mean −0.01026
Std Dev 0.9565

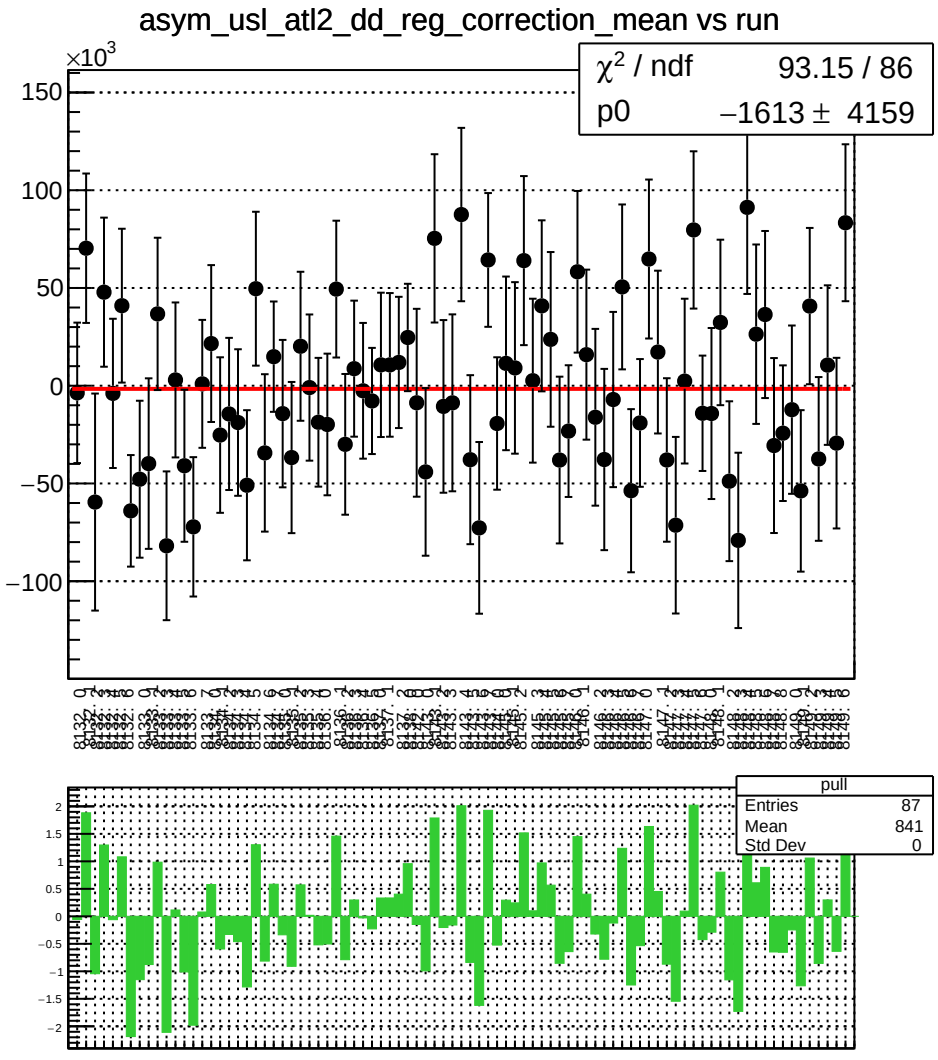

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.782e+04 / 86
p0 119.2 ± 0.0922
220
200
180
160
140
120
100
80

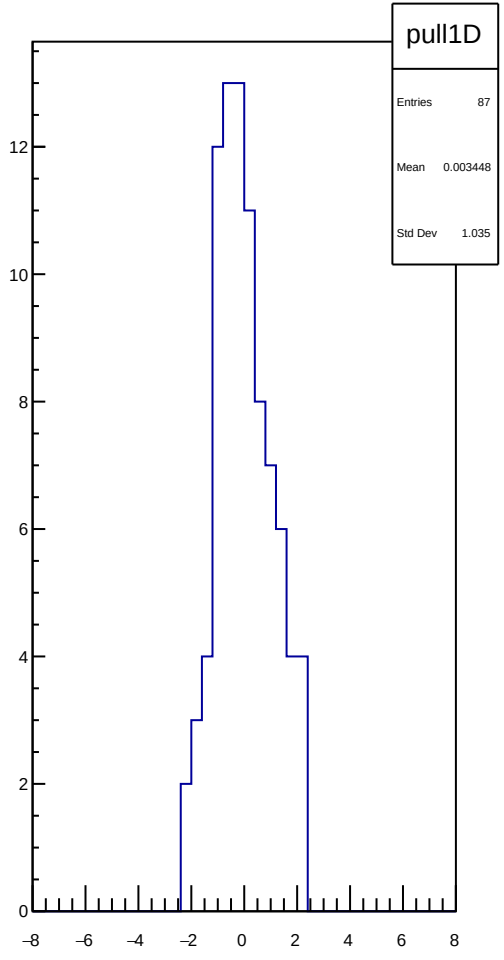

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 65.91 / 86
p0 4.683e−13 ± 3.458e−13
pull
Entries 87
Mean 67.68
Std Dev 0
pull1D
Entries 87
Mean −0.05455
Std Dev 0.8687

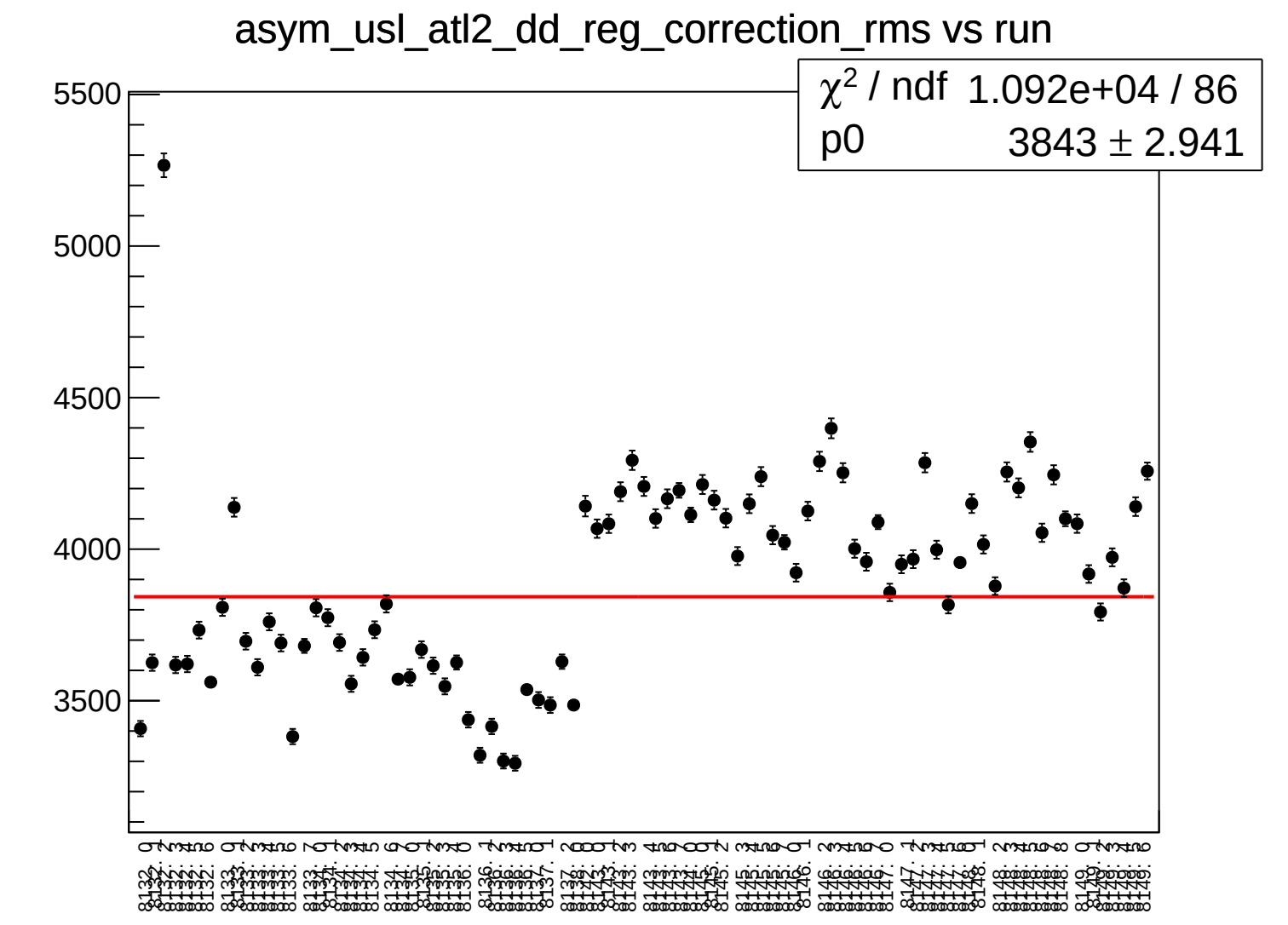

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.102e+05 / 86
p0 2.688e−10 ± 2.445e−13
2.5
2
1.5
1
0.5

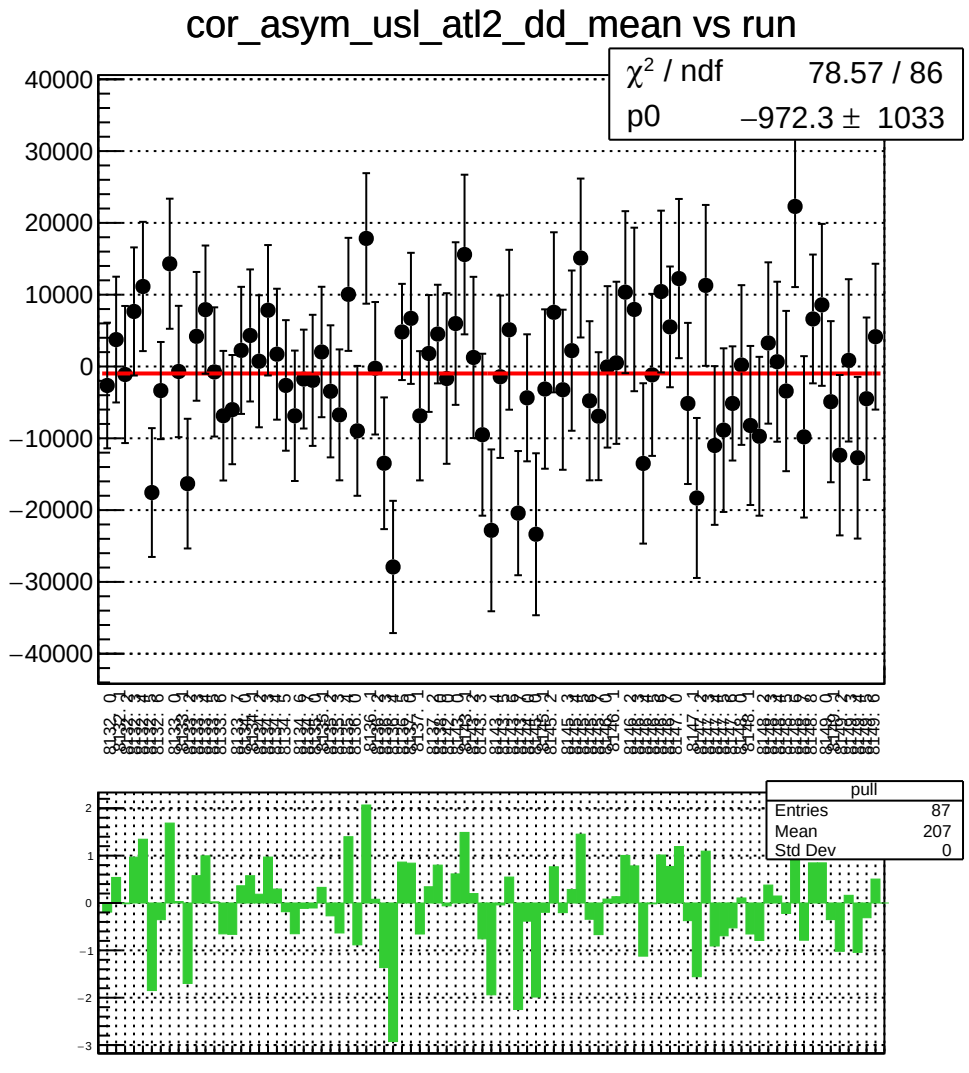

reg_asym_usl_atl2_dd_mean vs run
χ² / ndf 78.57 / 86
p0 −972.2 ± 1033
pull
Entries 87
Mean 207
Std Dev 0
pull1D
Entries 87
Mean −0.007075
Std Dev 0.9503

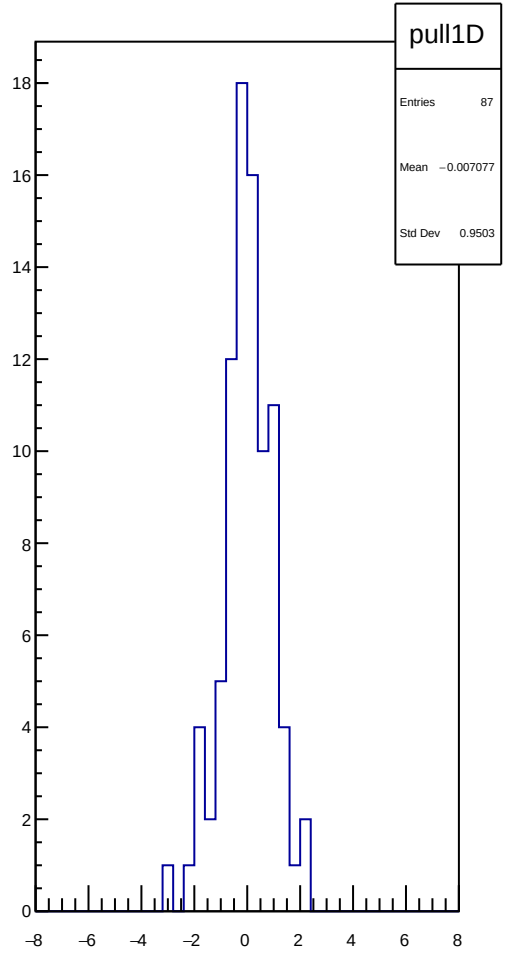

reg_asym_usl_atl2_dd_rms vs run
χ² / ndf 1.907e+04 / 86
p0 952.5 ± 0.7306
1100
1050
1000
950
900
850
800

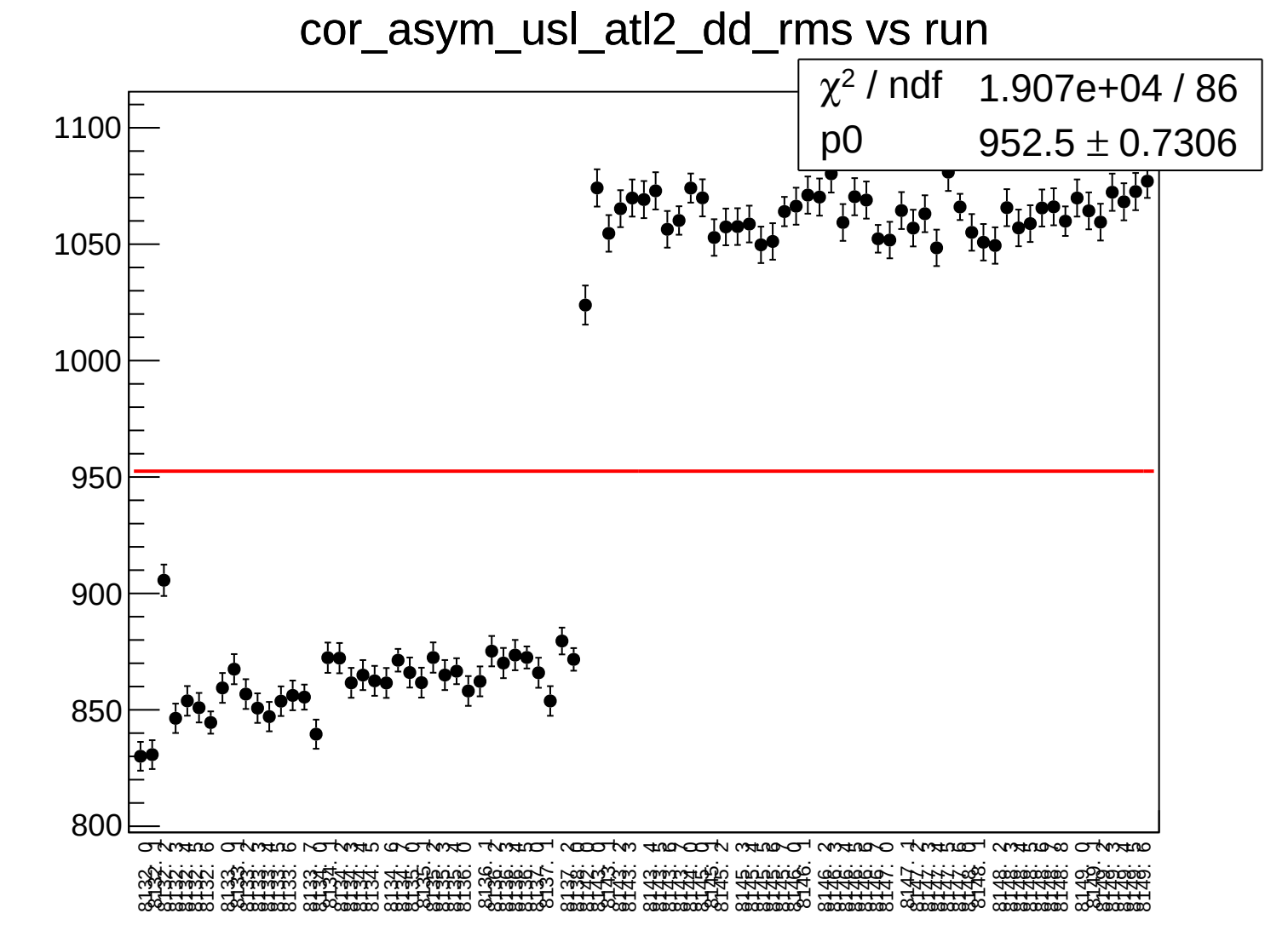

asym_usl_atl2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 93.15 / 86
p0 −1613 ± 4159
150
100
50
0
−50
−100
pull
Entries 87
Mean 841
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

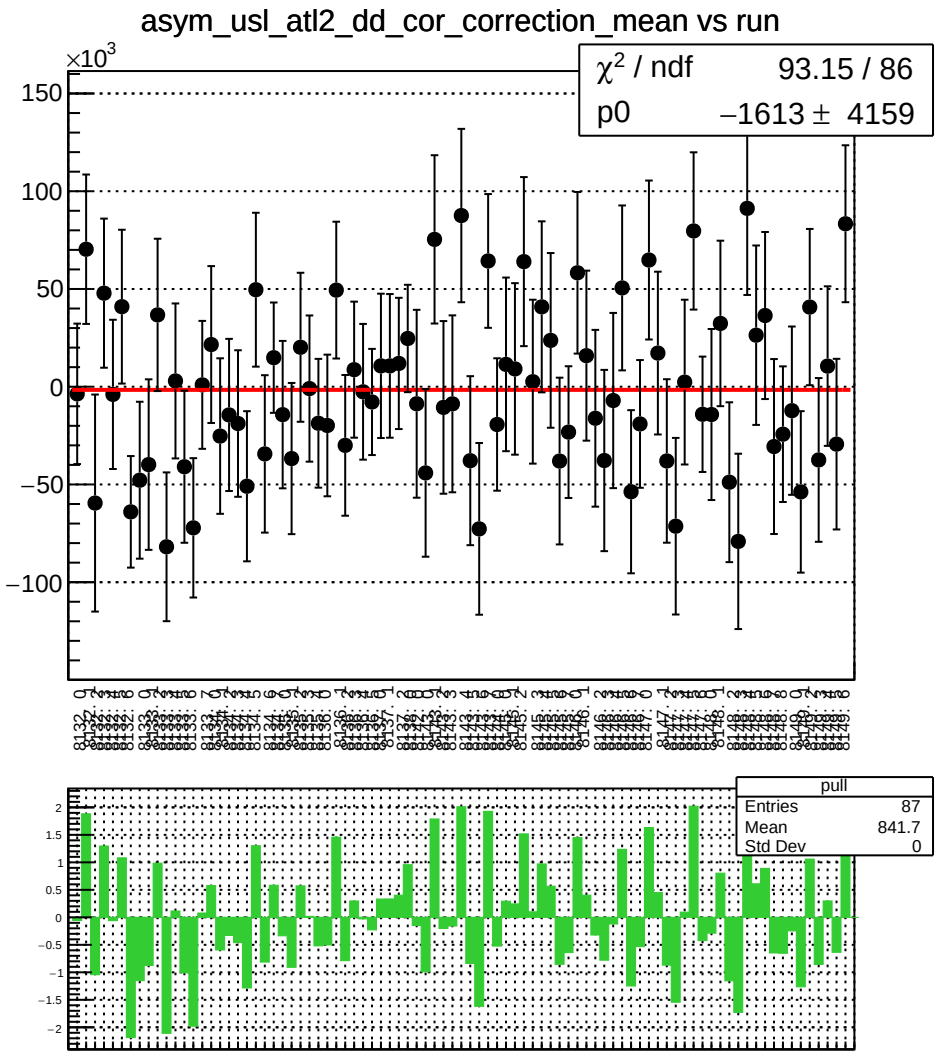

pull1D
Entries 87
Mean 0.003448
Std Dev 1.035
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

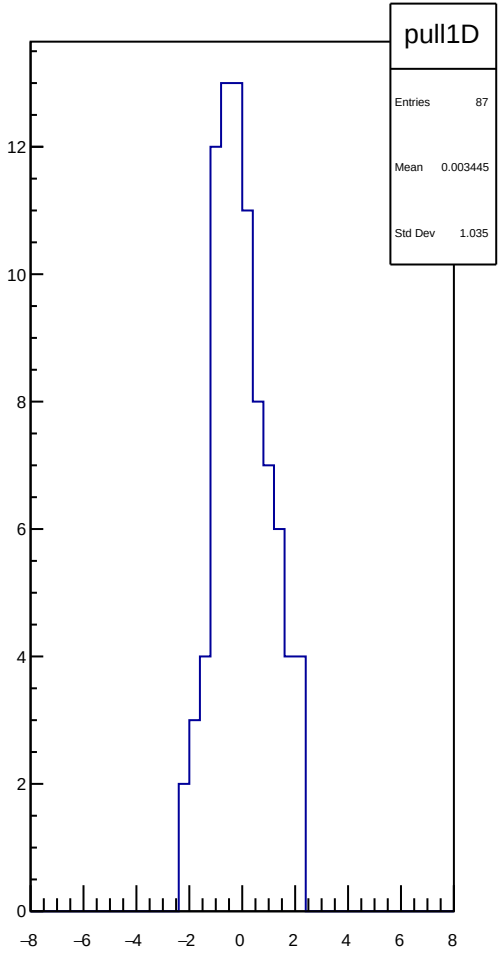

asym_usl_atl2_dd_reg_correction_rms vs run
χ² / ndf 1.092e+04 / 86
p0 3843 ± 2.941
5500
5000
4500
4000
3500

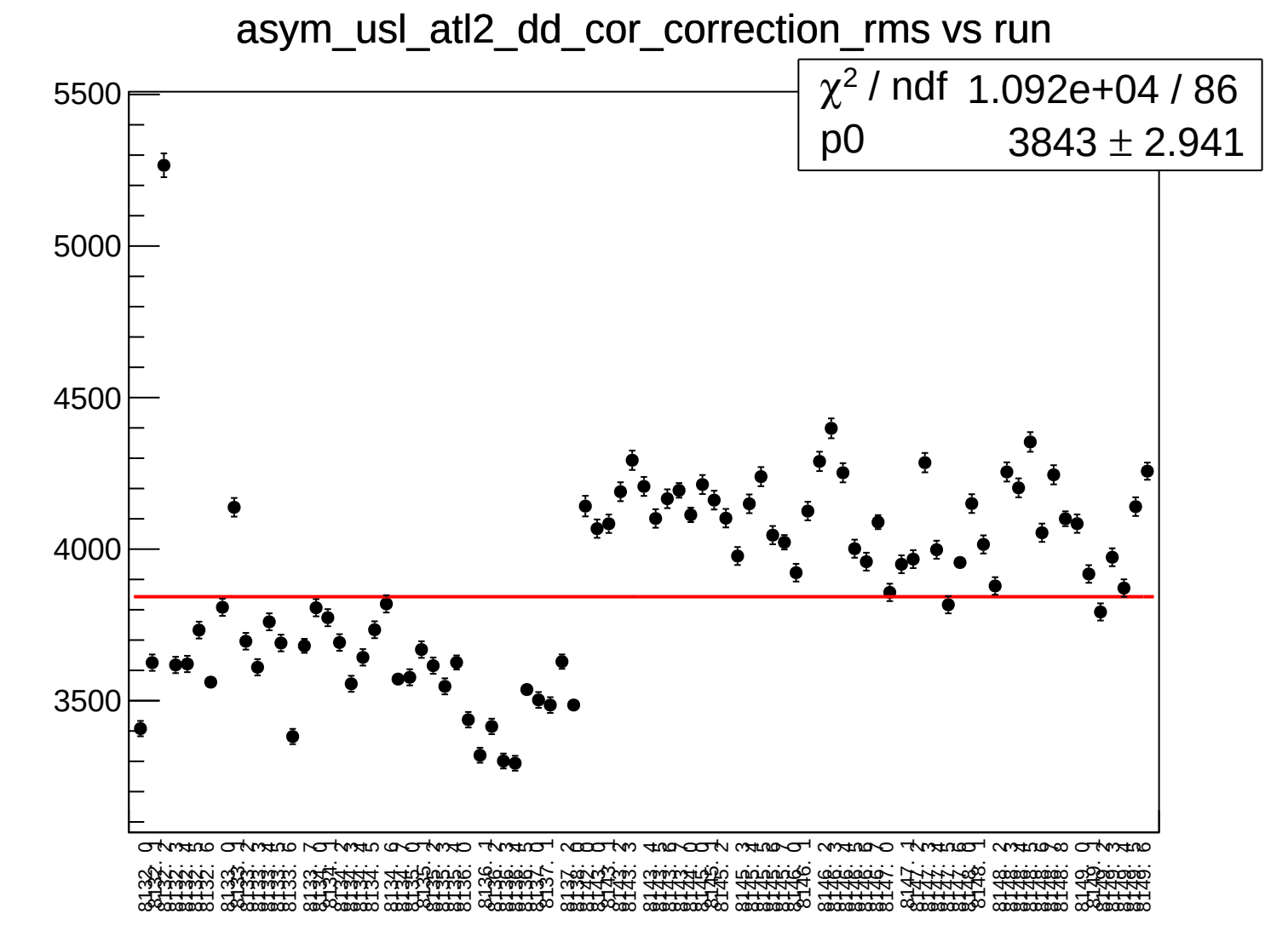

cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 78.57 / 86
p0 −972.3 ± 1033
pull
Entries 87
Mean 207
Std Dev 0

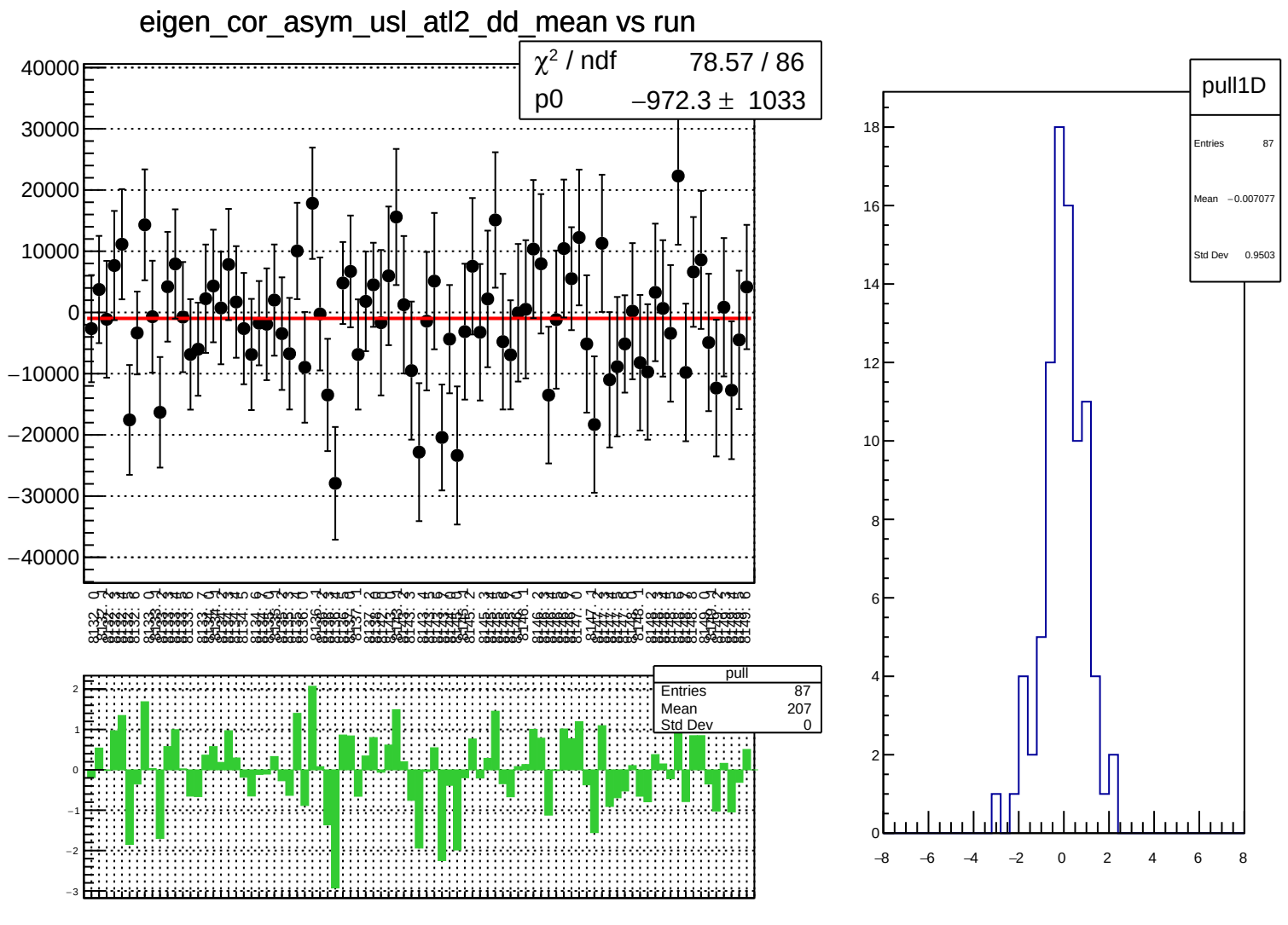

pull1D
Entries 87
Mean −0.007077
Std Dev 0.9503

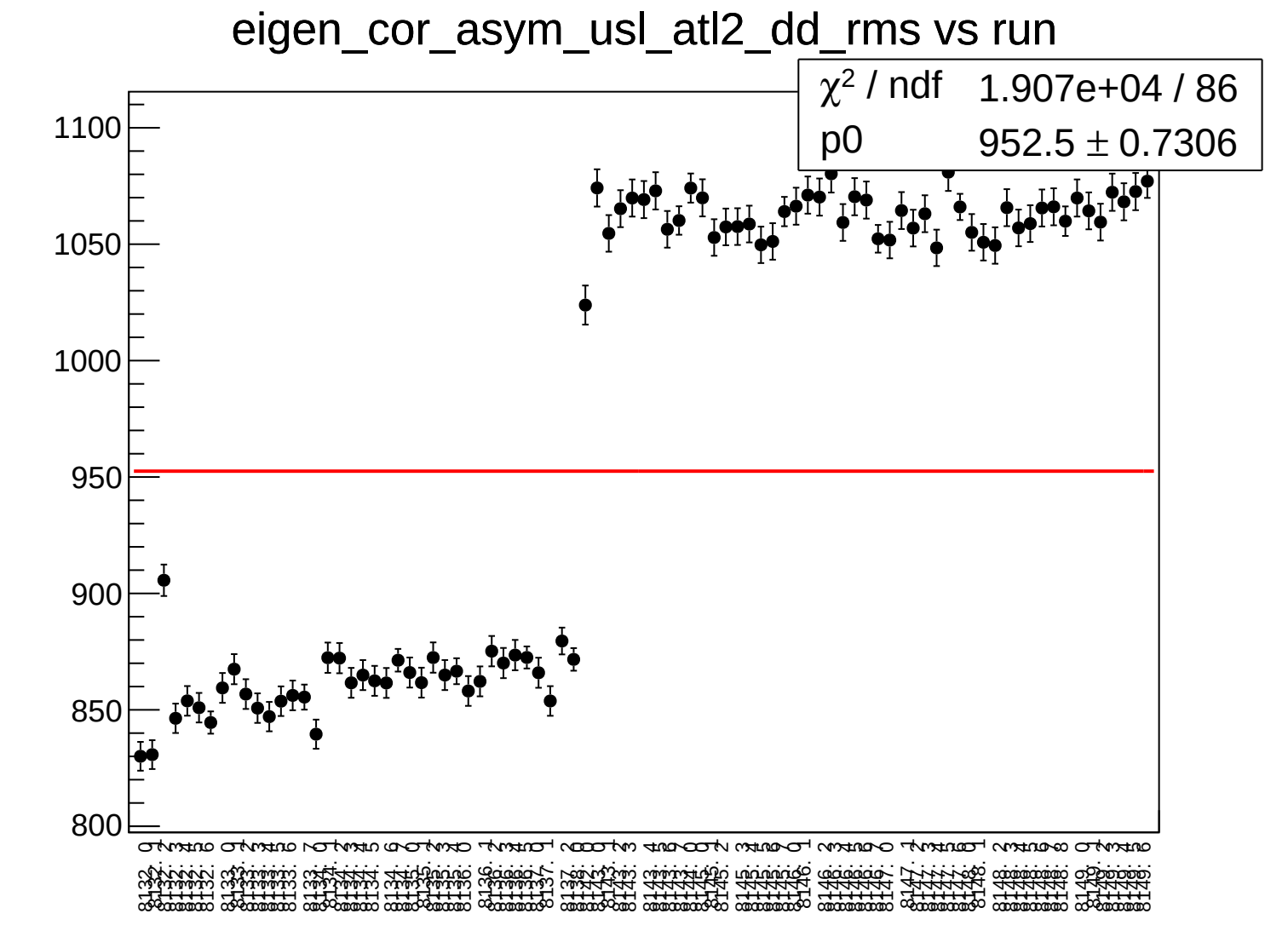

cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 1.907e+04 / 86
p0 952.5 ± 0.7306
1100
1050
1000
950
900
850
800

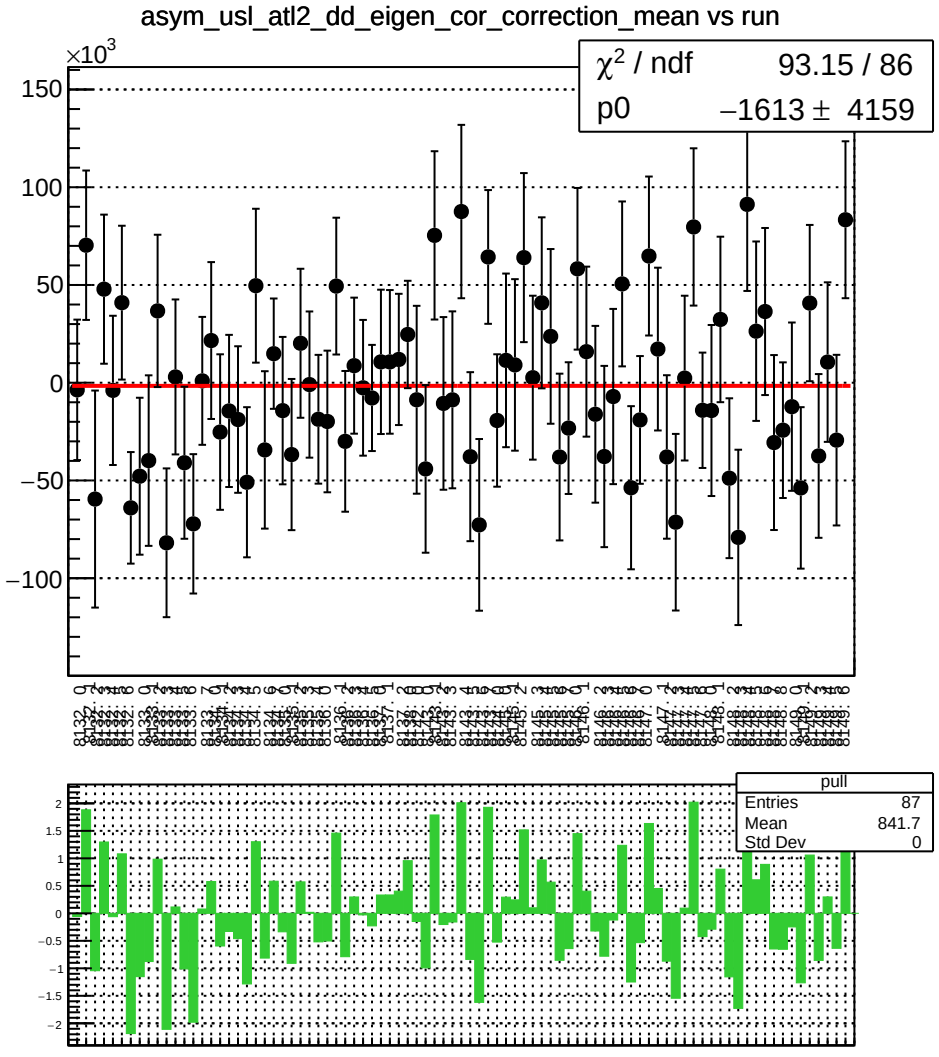

asym_usl_atl2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 93.15 / 86
p0 −1613 ± 4159
150
100
50
0
−50
−100
pull
Entries 87
Mean 841.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

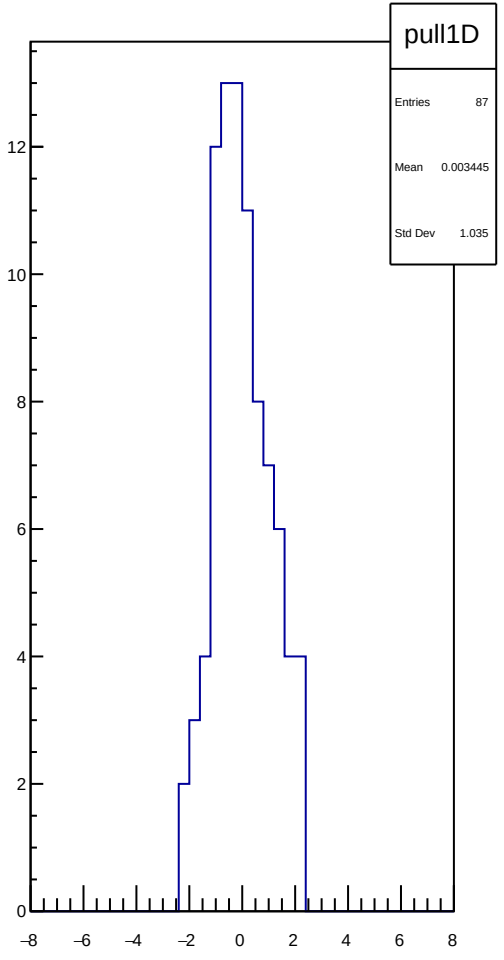

pull1D
Entries 87
Mean 0.003445
Std Dev 1.035
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

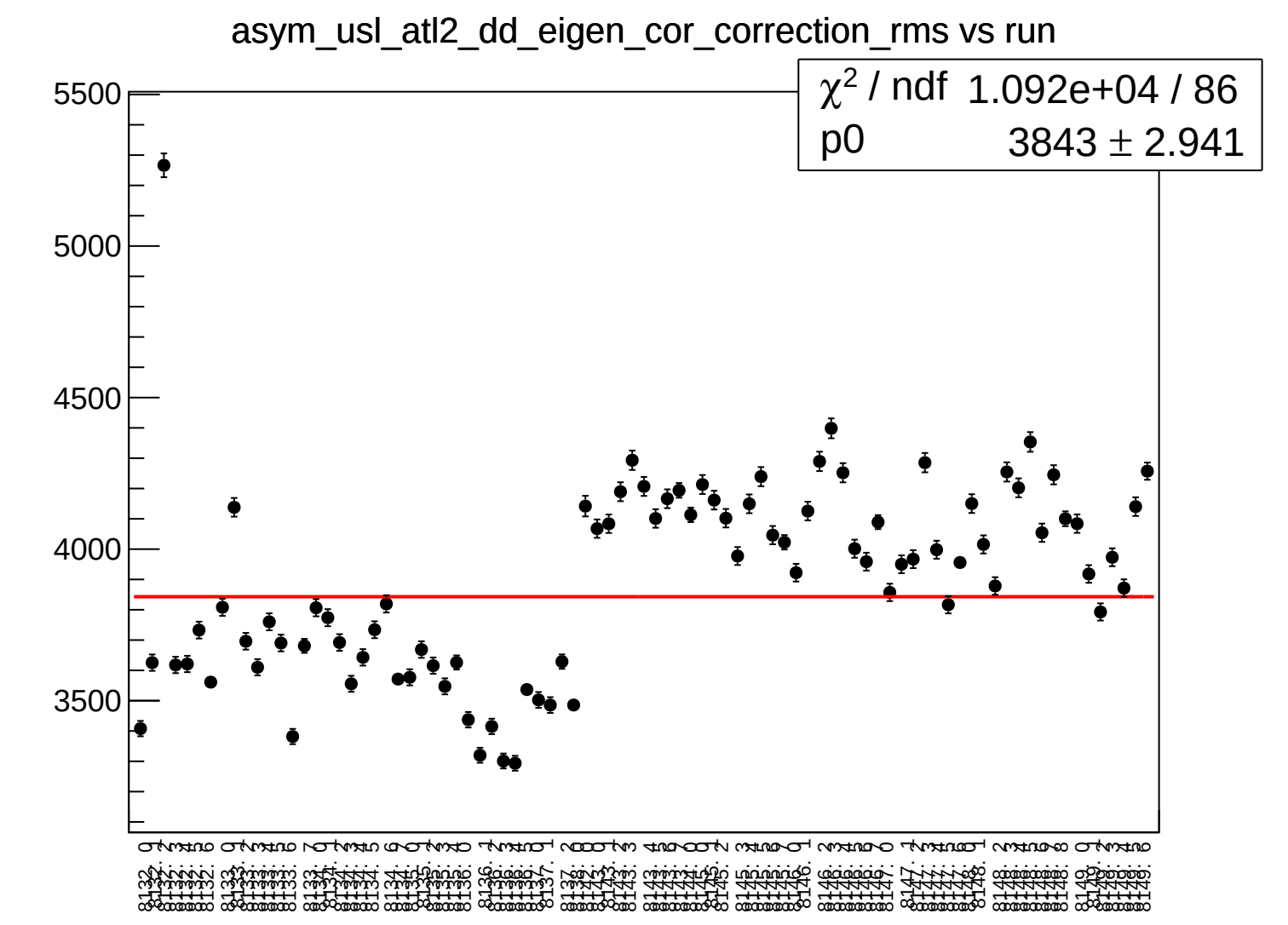

asym_usl_atl2_dd_cor_correction_rms vs run
χ² / ndf 1.092e+04 / 86
p0 3843 ± 2.941
5500
5000
4500
4000
3500

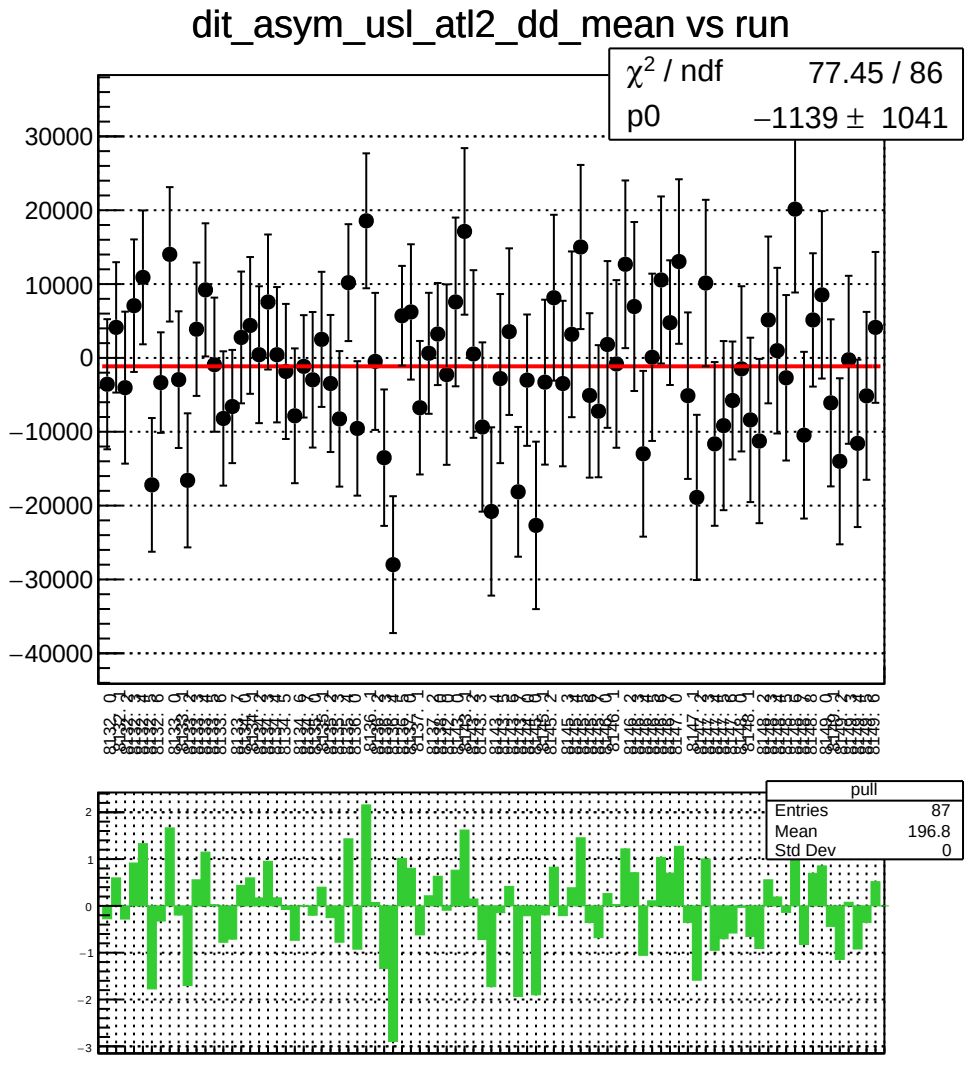

eigen_cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 78.57 / 86
p0 −972.3 ± 1033
pull
Entries 87
Mean 207
Std Dev 0
pull1D
Entries 87
Mean −0.007077
Std Dev 0.9503

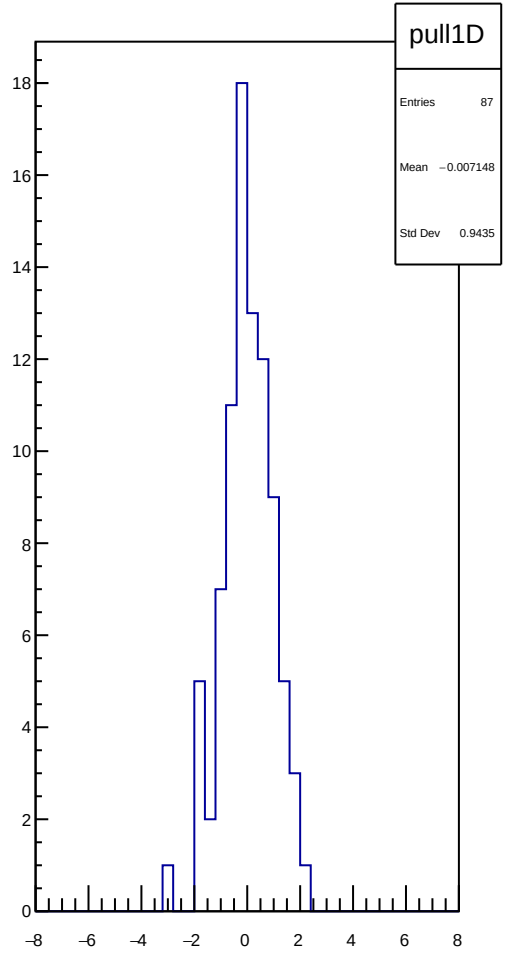

eigen_cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 1.907e+04 / 86
p0 952.5 ± 0.7306
1100
1050
1000
950
900
850
800

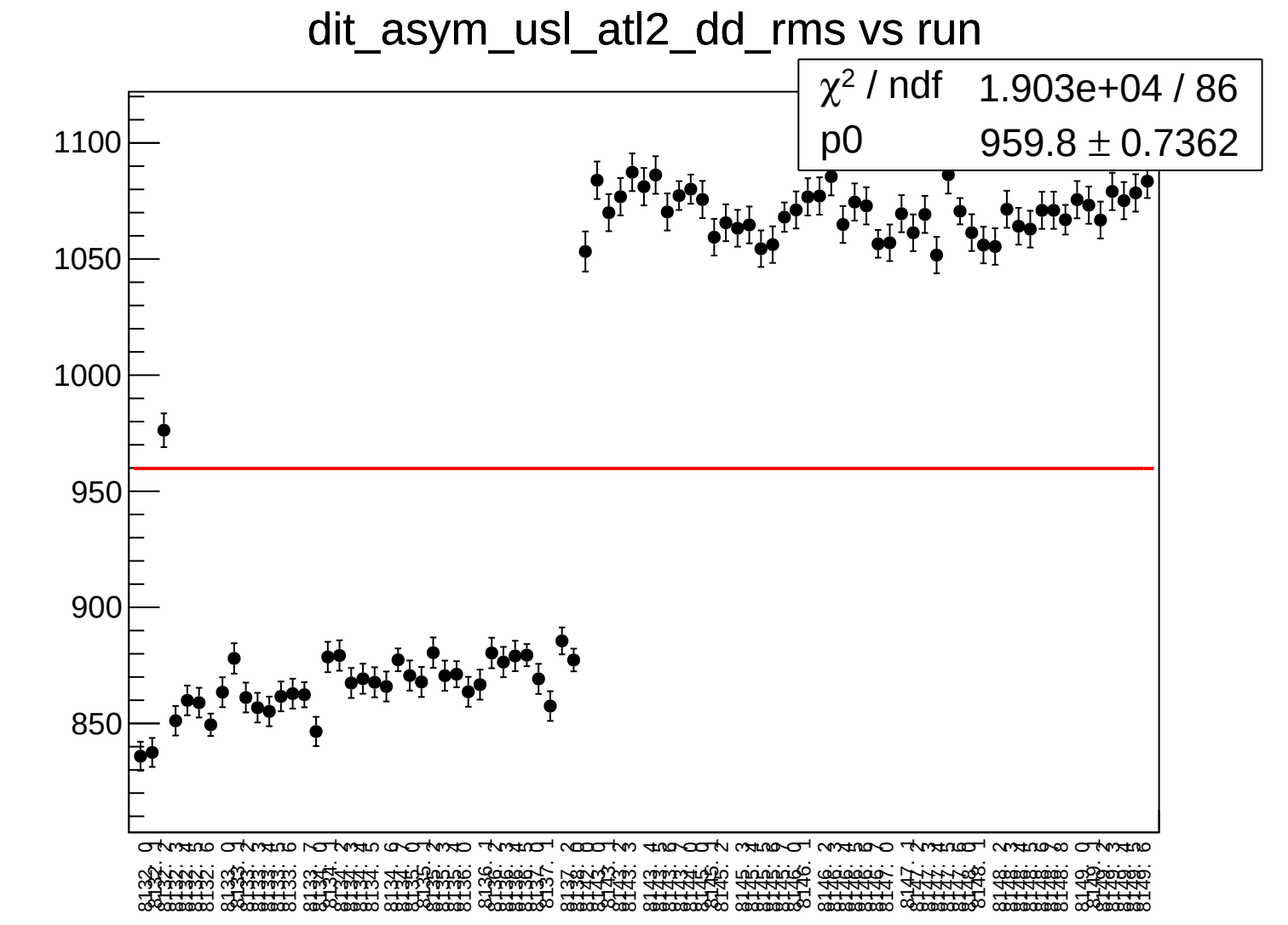

asym_usl_atl2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 93.15 / 86
p0 −1613 ± 4159
150
100
50
0
−50
−100
pull
Entries 87
Mean 841.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

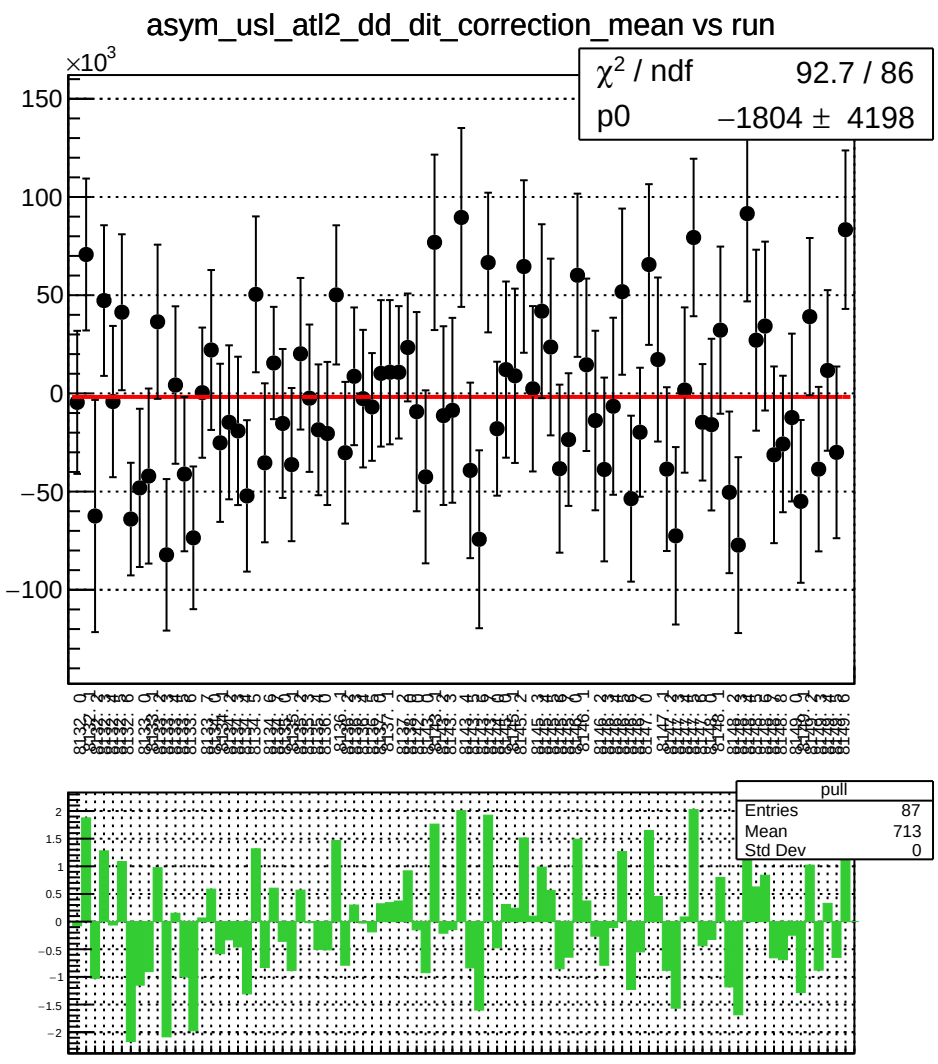

pull1D
Entries 87
Mean 0.003445
Std Dev 1.035
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

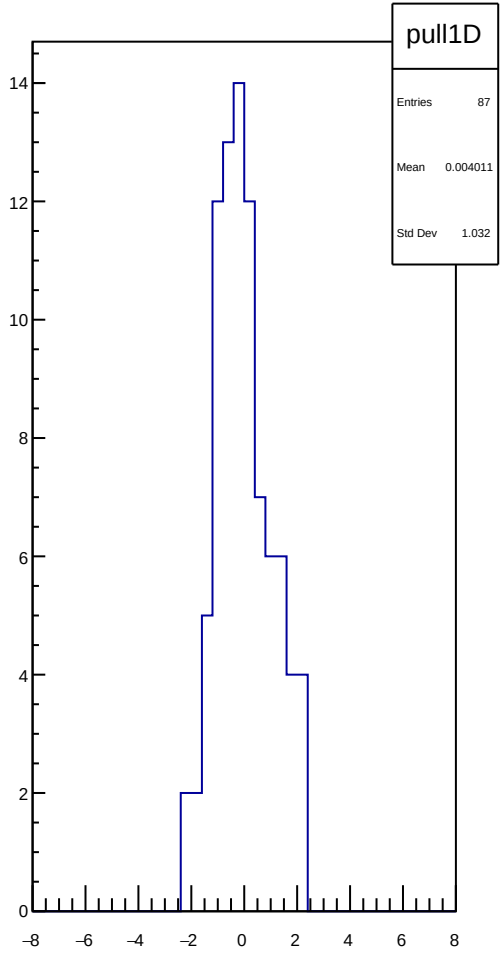

asym_usl_atl2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.092e+04 / 86
p0 3843 ± 2.941
5500
5000
4500
4000
3500

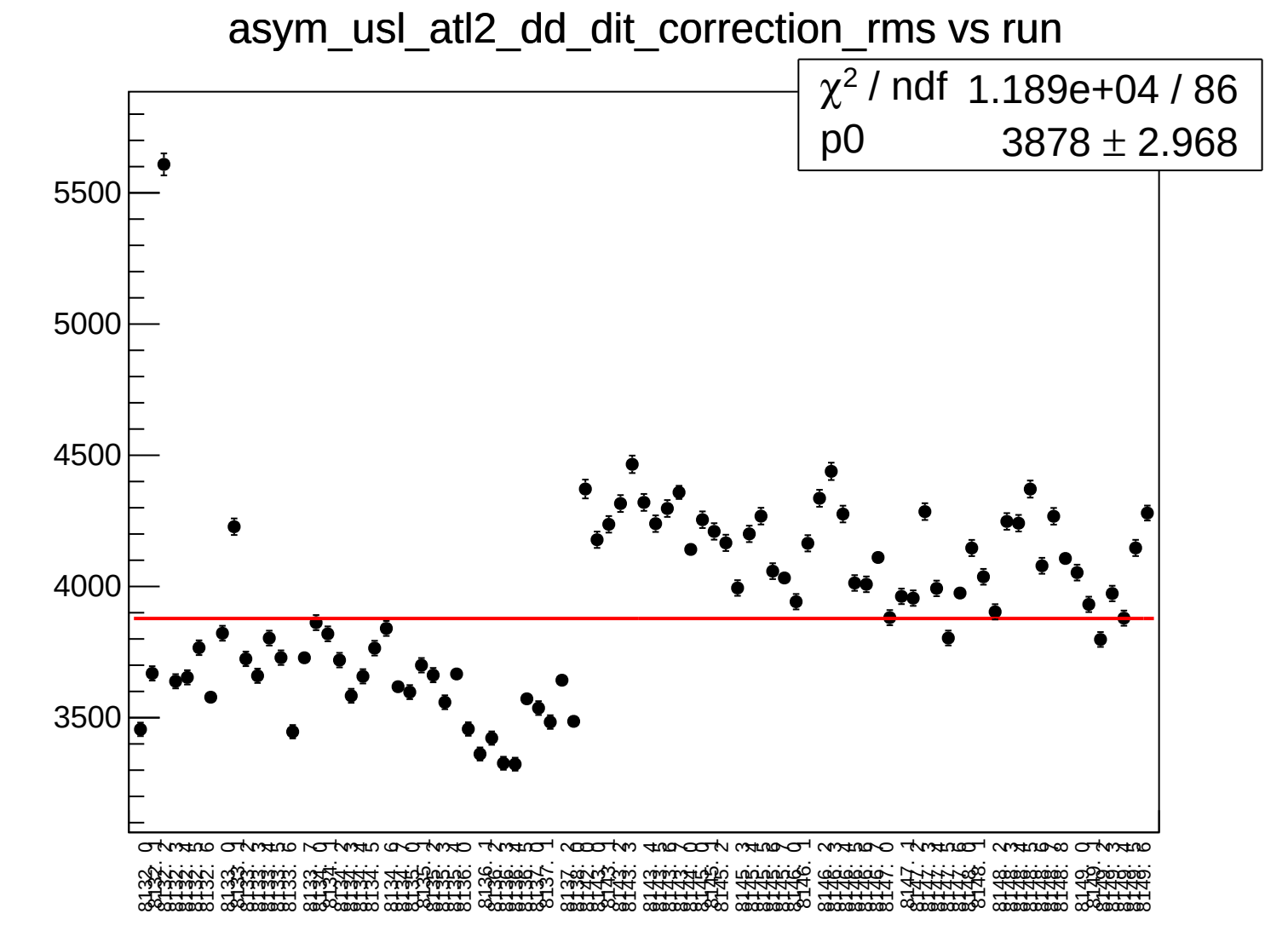

dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 77.45 / 86
p0 −1139 ± 1041
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 87
Mean 196.8
Std Dev 0
2
1
0
−1
−2
−3

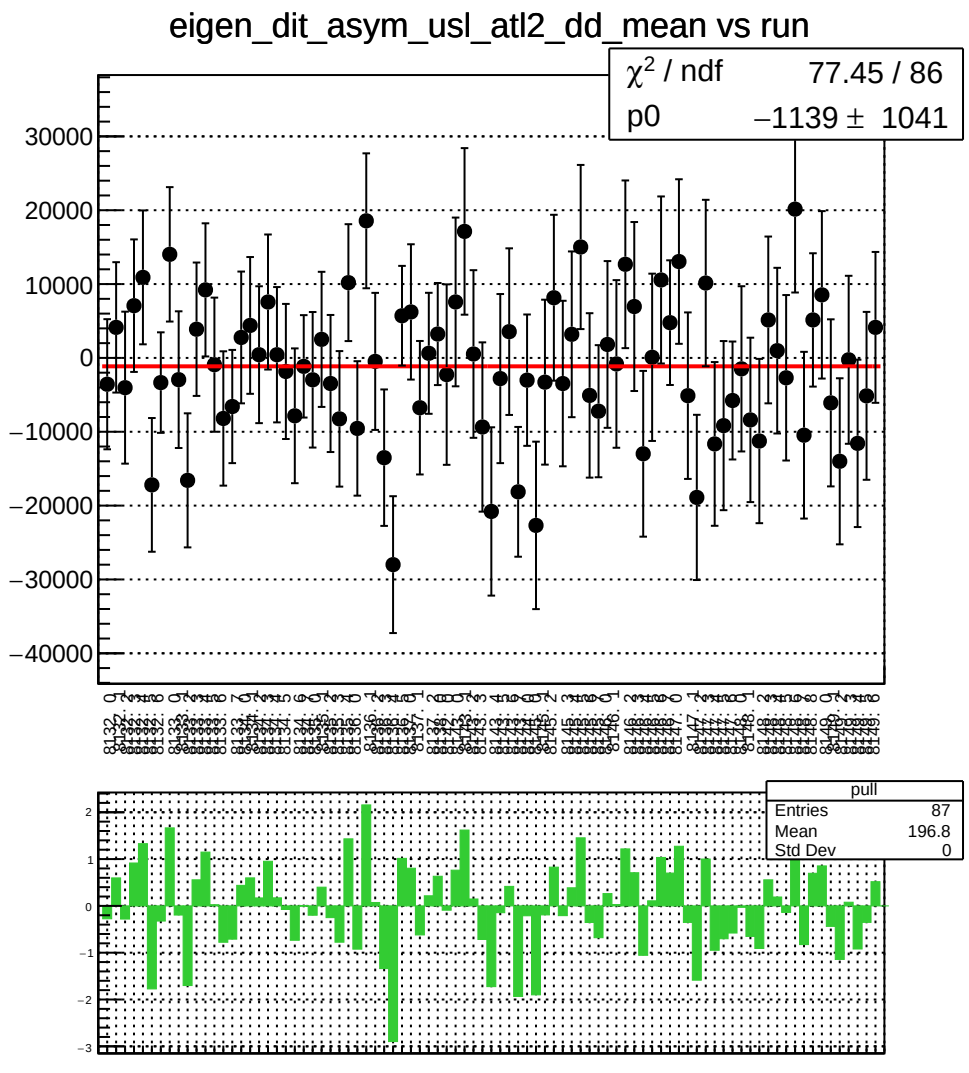

pull1D
Entries 87
Mean −0.007148
Std Dev 0.9435
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

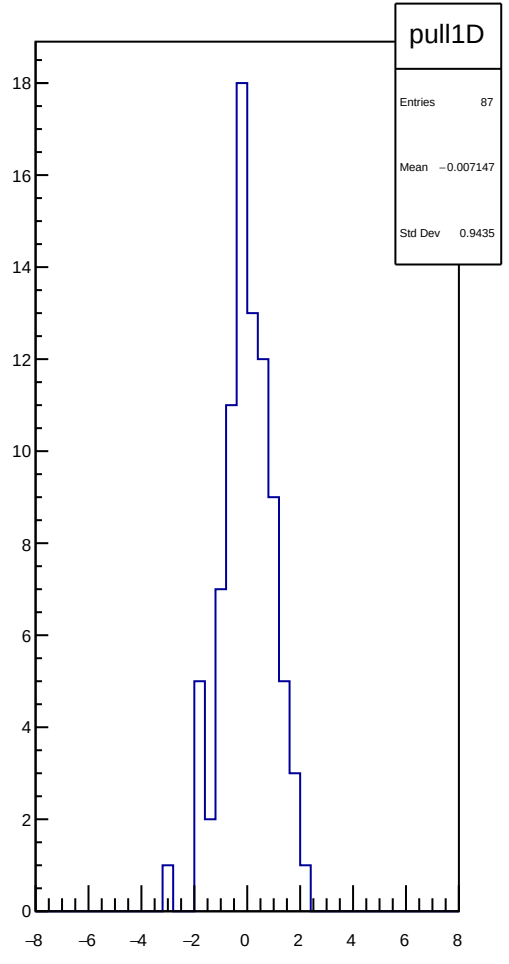

dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 1.903e+04 / 86
p0 959.8 ± 0.7362
1100
1050
1000
950
900
850

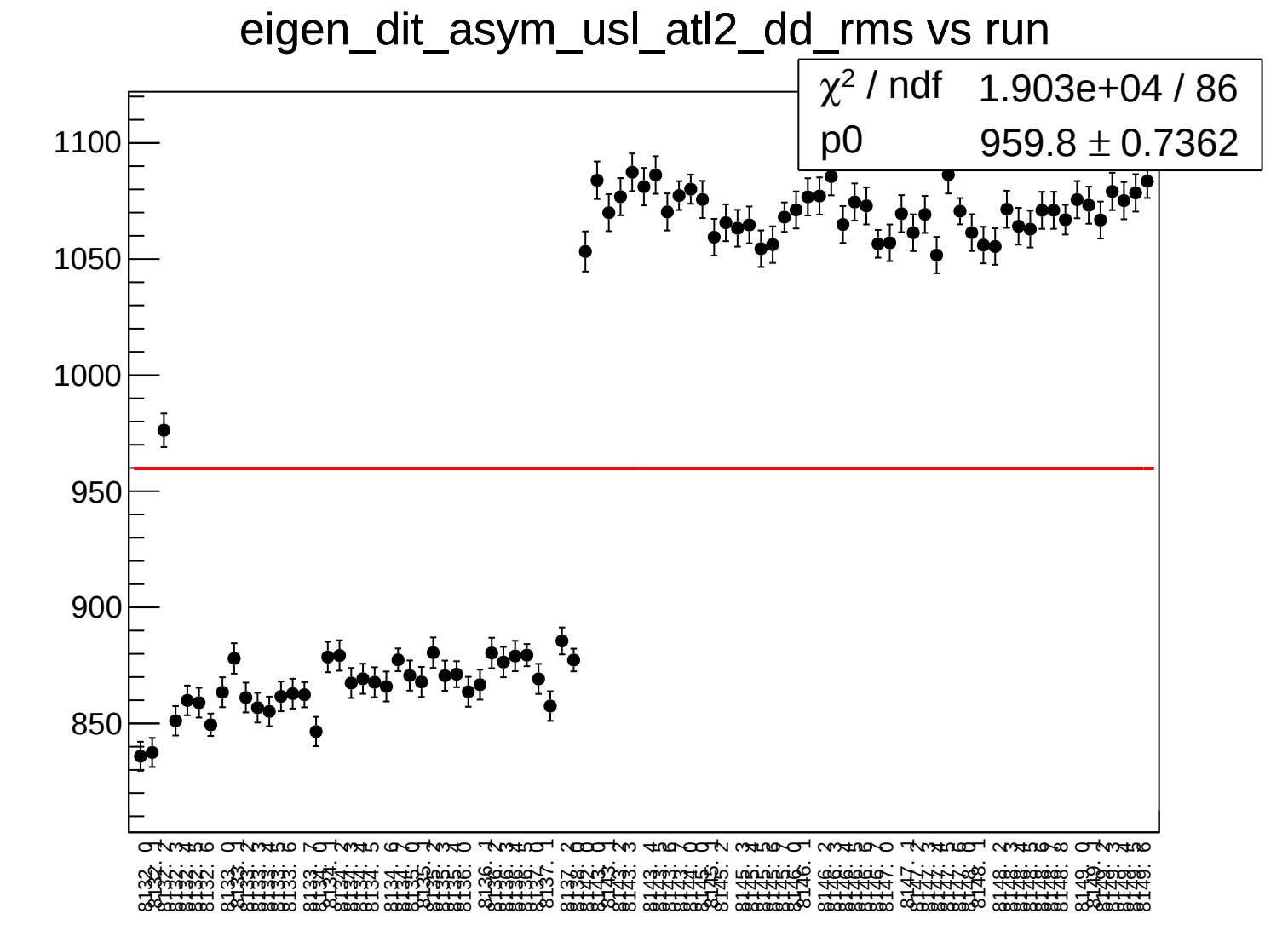

asym_usl_atl2_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 92.7 / 86
p0 −1804 ± 4198
150
100
50
0
−50
−100
pull
Entries 87
Mean 713
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

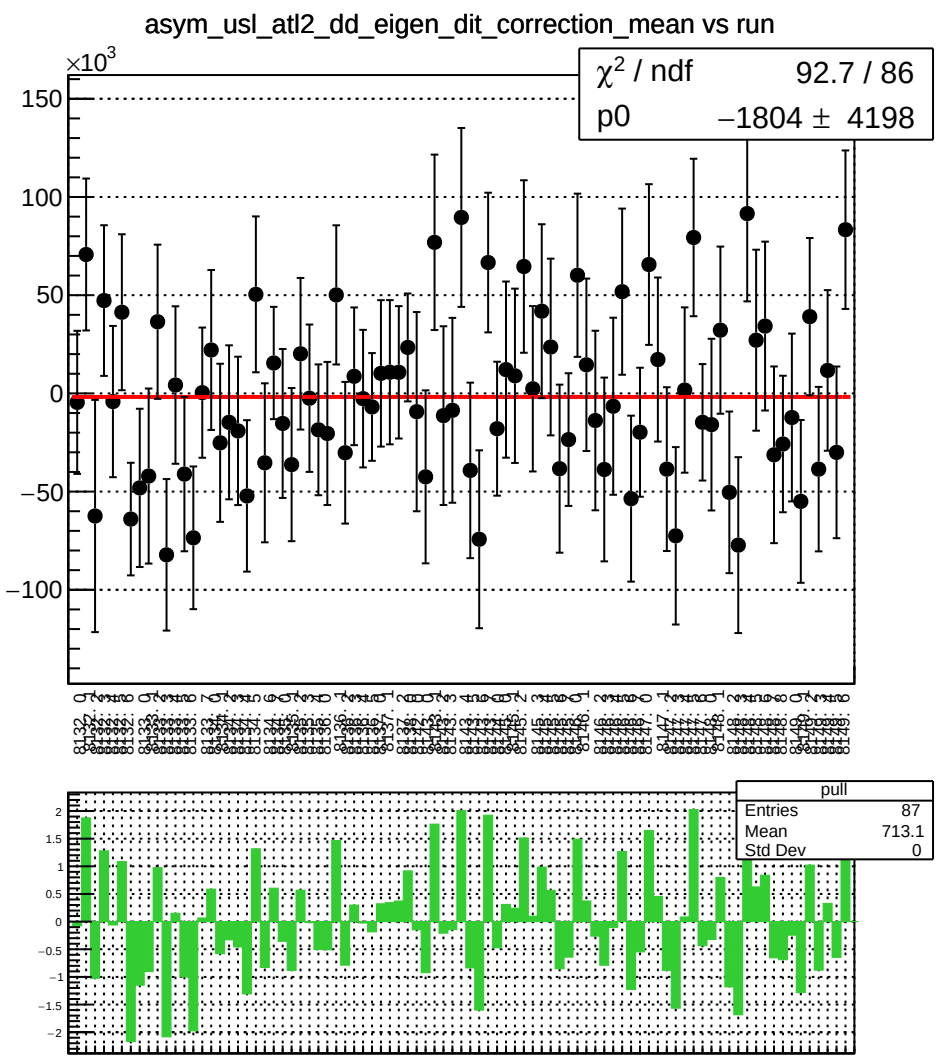

pull1D
Entries 87
Mean 0.004011
Std Dev 1.032
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

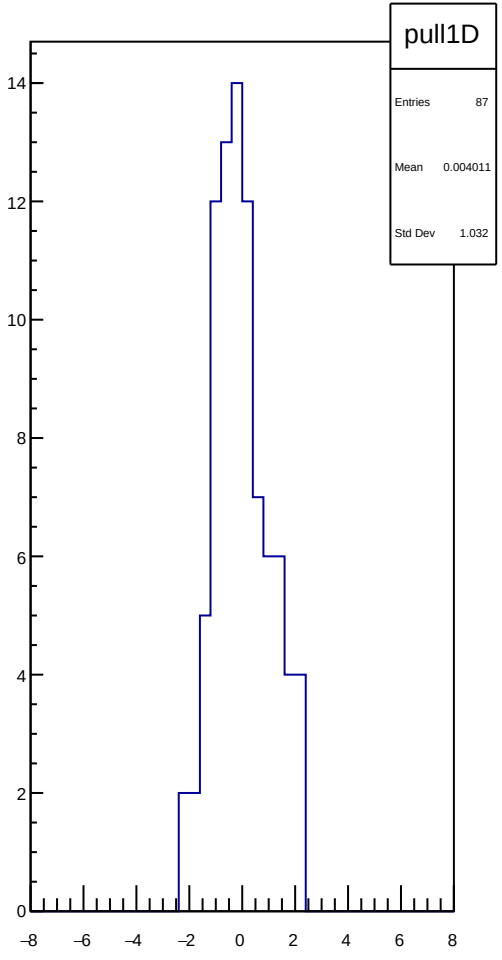

asym_usl_atl2_dd_dit_correction_rms vs run
χ² / ndf 1.189e+04 / 86
p0 3878 ± 2.968
5500
5000
4500
4000
3500

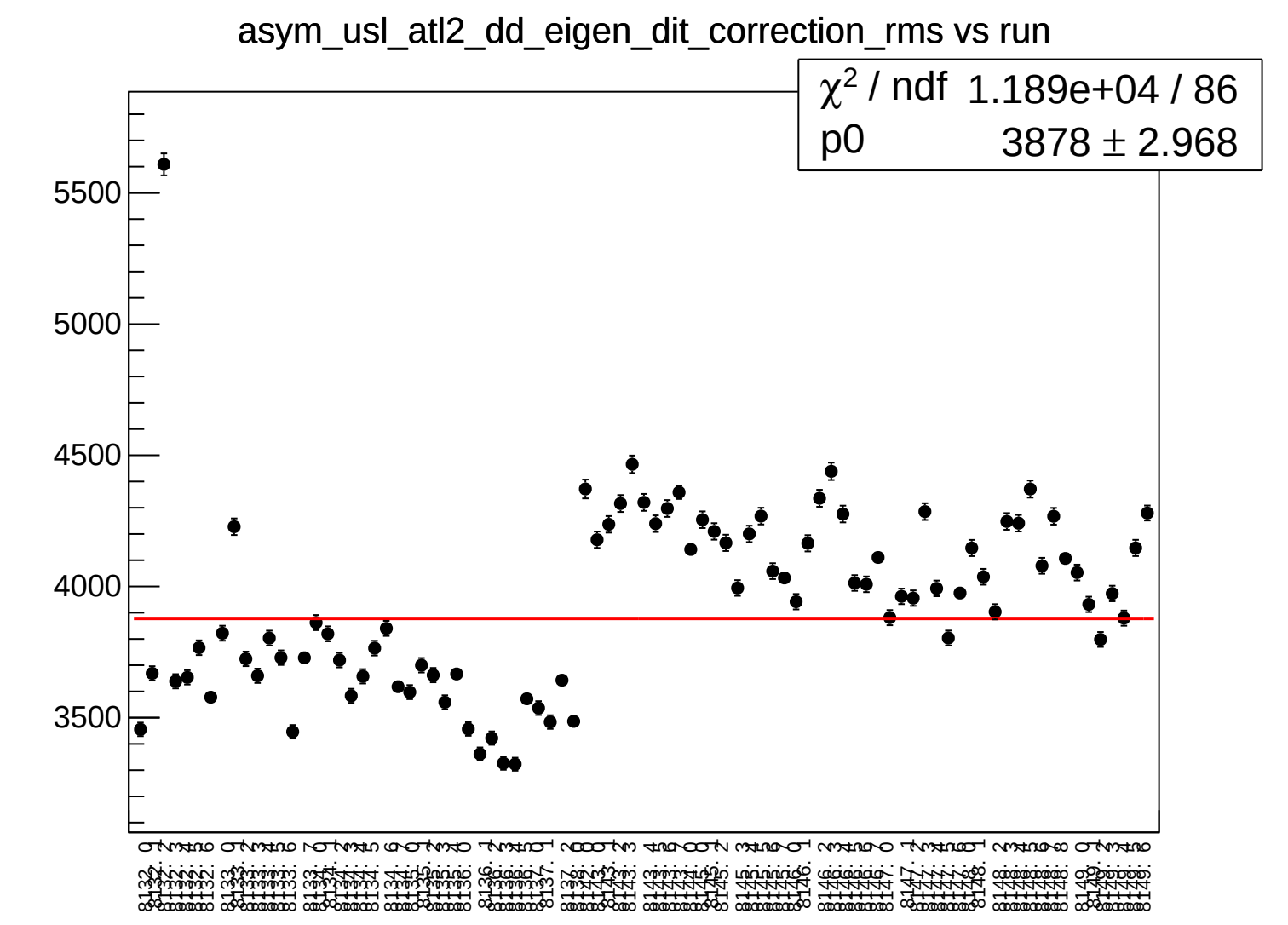

eigen_dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 77.45 / 86
p0 −1139 ± 1041
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 87
Mean 196.8
Std Dev 0
2
1
0
−1
−2
−3

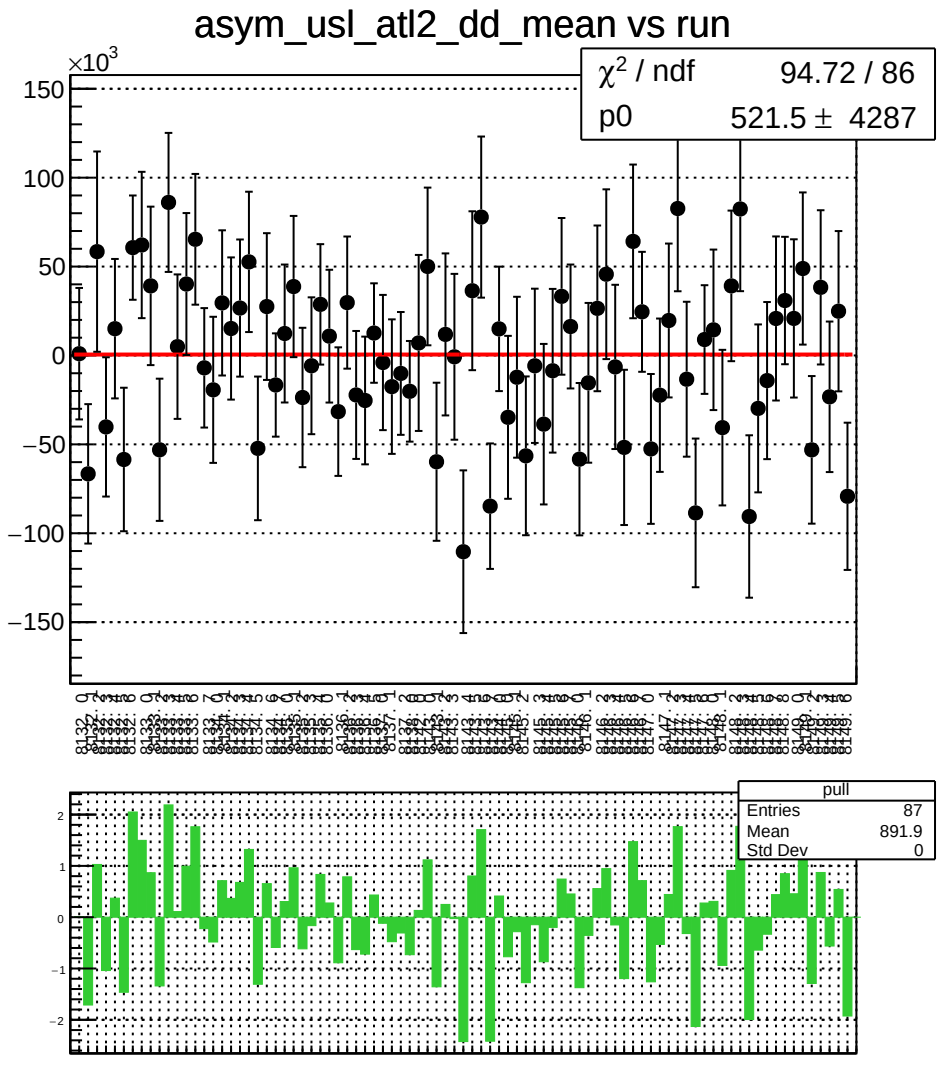

pull1D
Entries 87
Mean −0.007147
Std Dev 0.9435
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

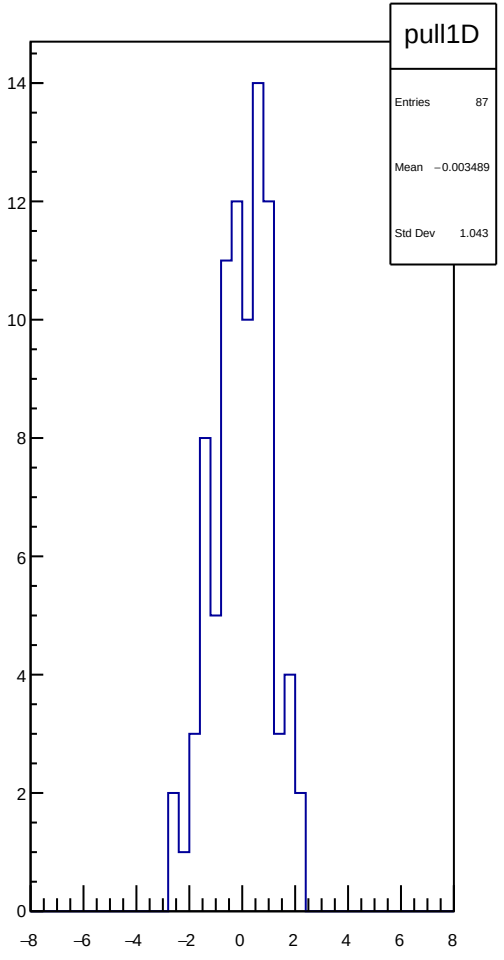

eigen_dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 1.903e+04 / 86
p0 959.8 ± 0.7362
1100
1050
1000
950
900
850

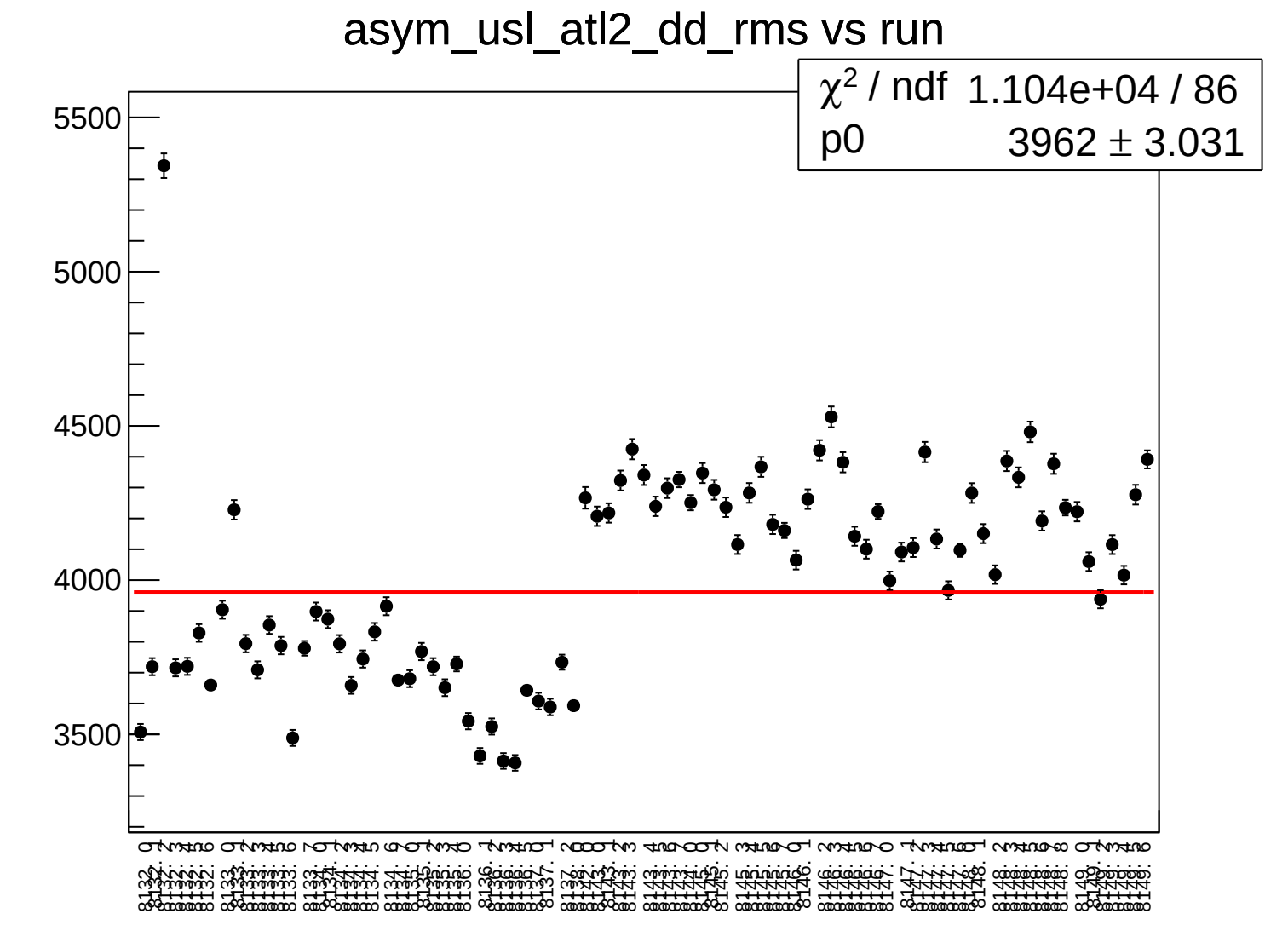

asym_usl_atl2_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 92.7 / 86
p0 −1804 ± 4198
150
100
50
0
−50
−100
pull
Entries 87
Mean 713.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

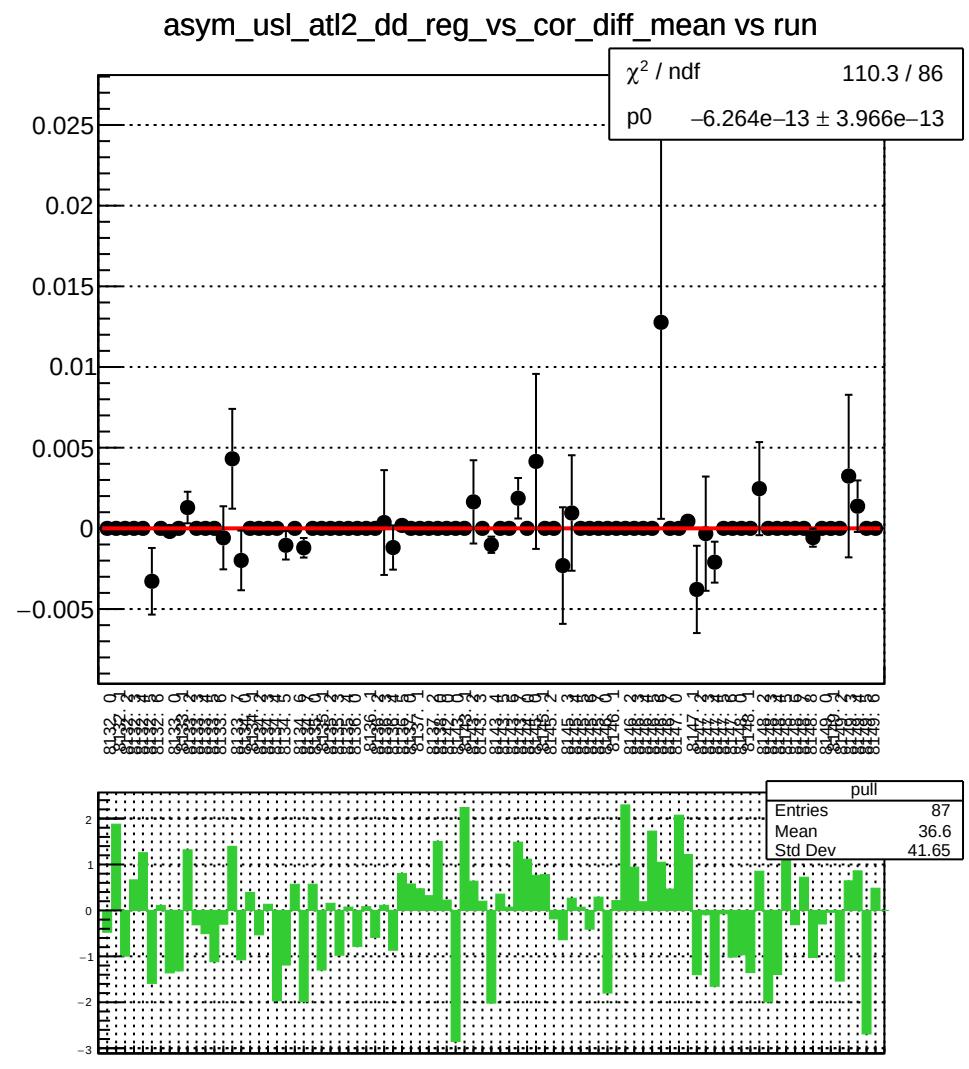

pull1D
Entries 87
Mean 0.004011
Std Dev 1.032
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

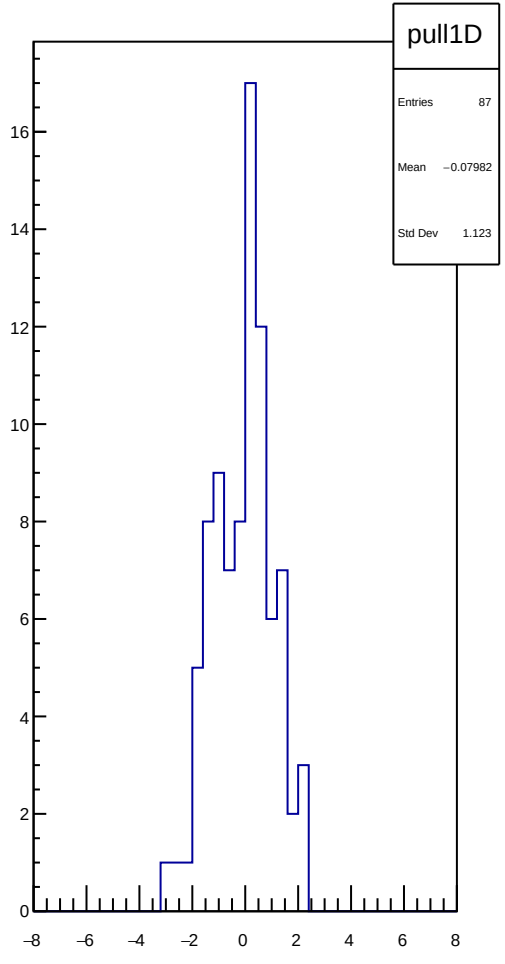

asym_usl_atl2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.189e+04 / 86
p0 3878 ± 2.968
5500
5000
4500
4000
3500

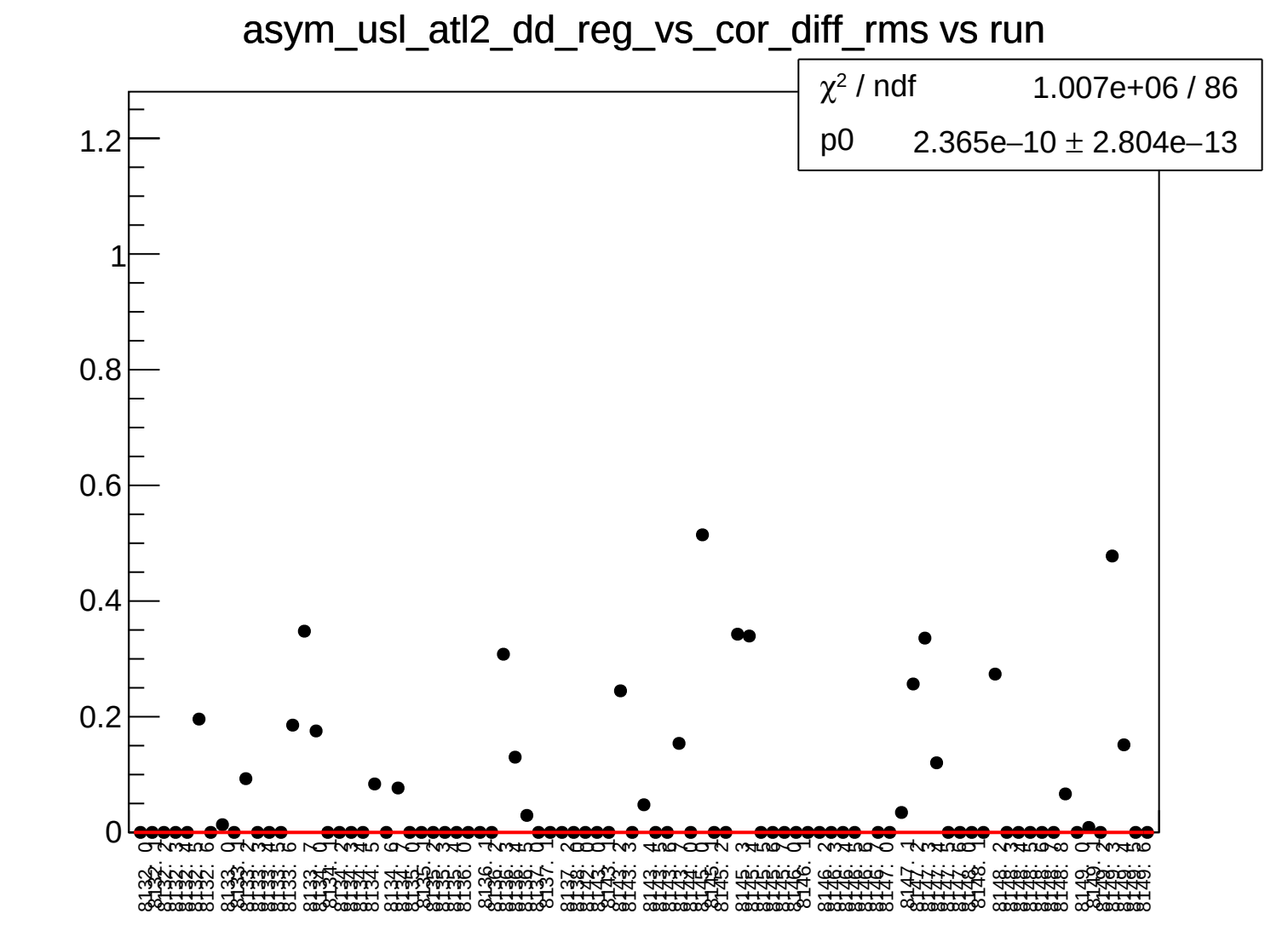

asym_usl_atl2_dd_mean vs run
×10^3
χ² / ndf 94.72 / 86
p0 521.5 ± 4287
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean 891.9
Std Dev 0
2
1
0
−1
−2

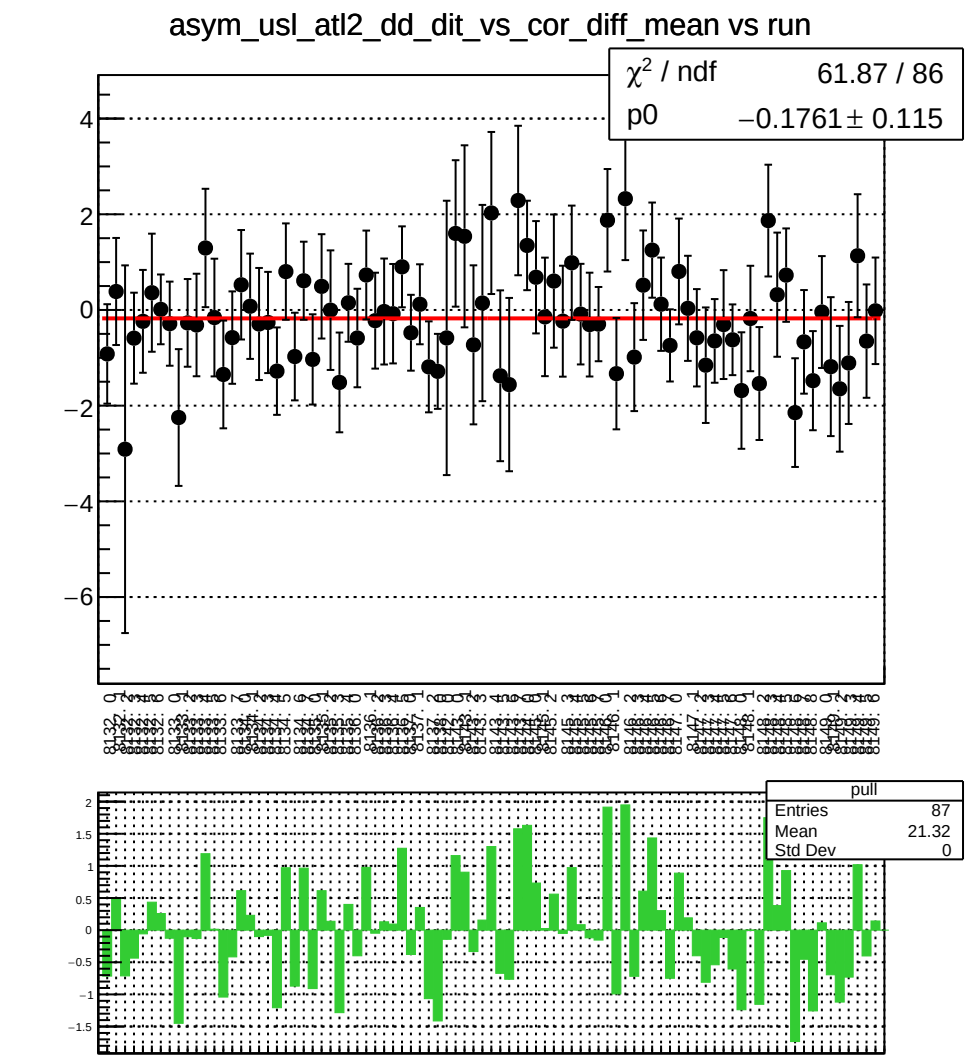

pull1D
Entries 87
Mean −0.003489
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

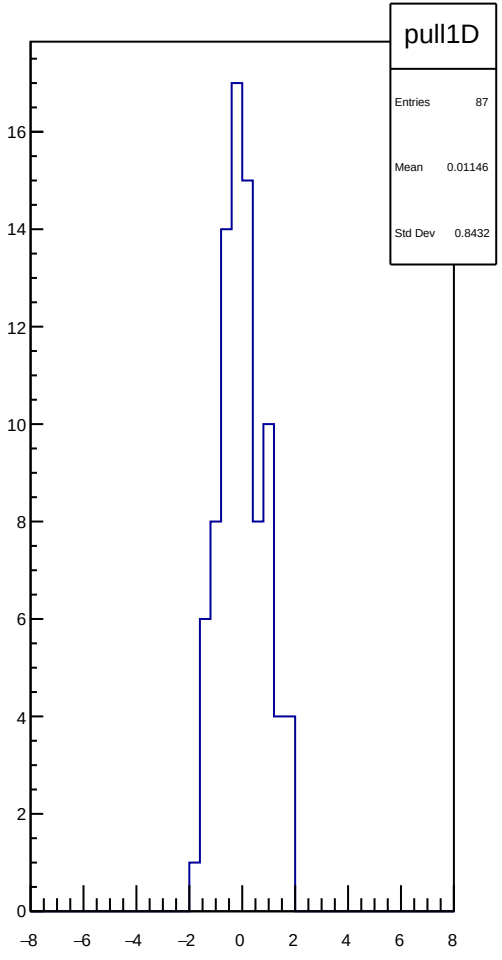

asym_usl_atl2_dd_rms vs run
χ² / ndf 1.104e+04 / 86
p0 3962 ± 3.031
5500
5000
4500
4000
3500

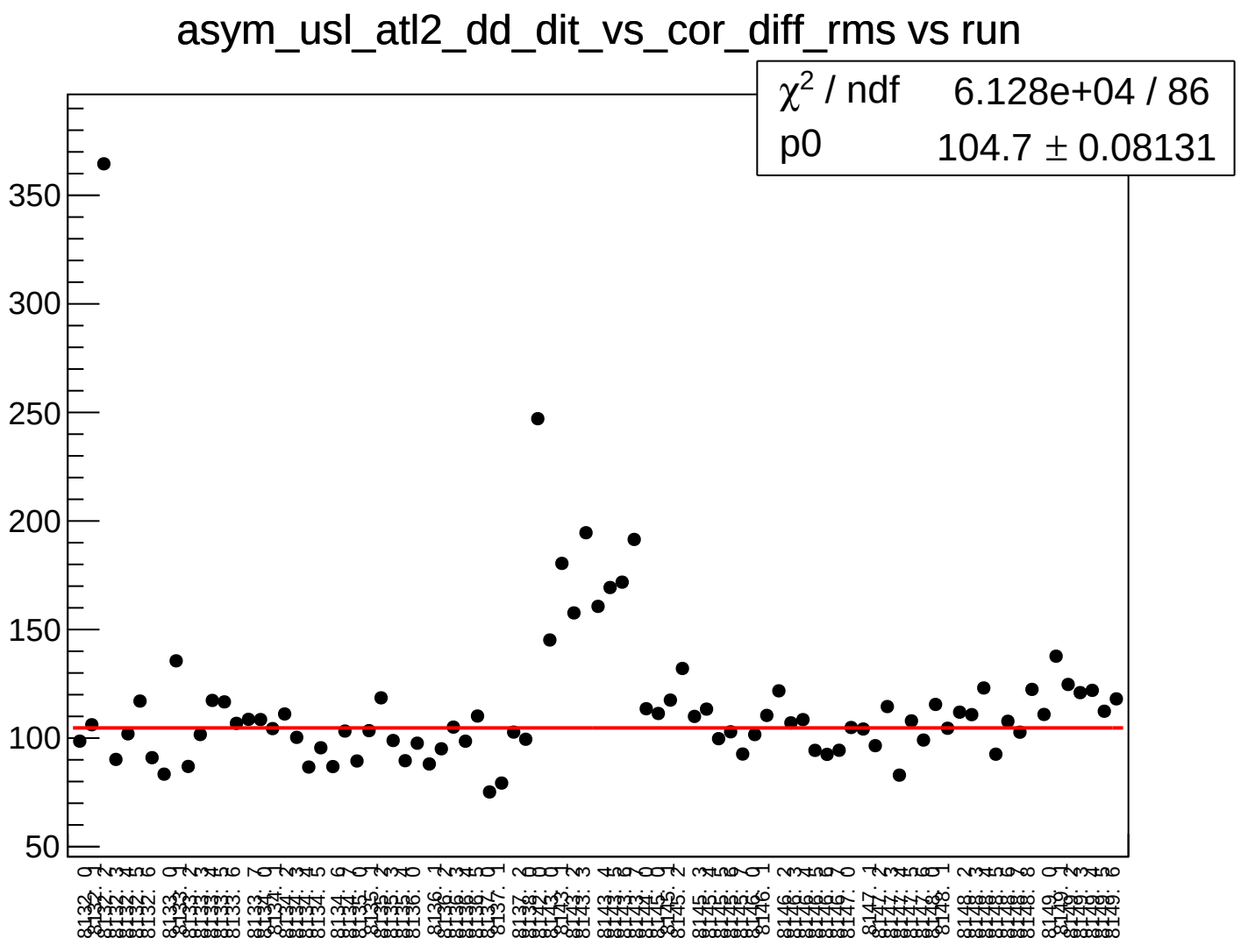

asym_usl_atl2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 110.3 / 86
p0 −6.264e−13 ± 3.966e−13
pull
Entries 87
Mean 36.6
Std Dev 41.65

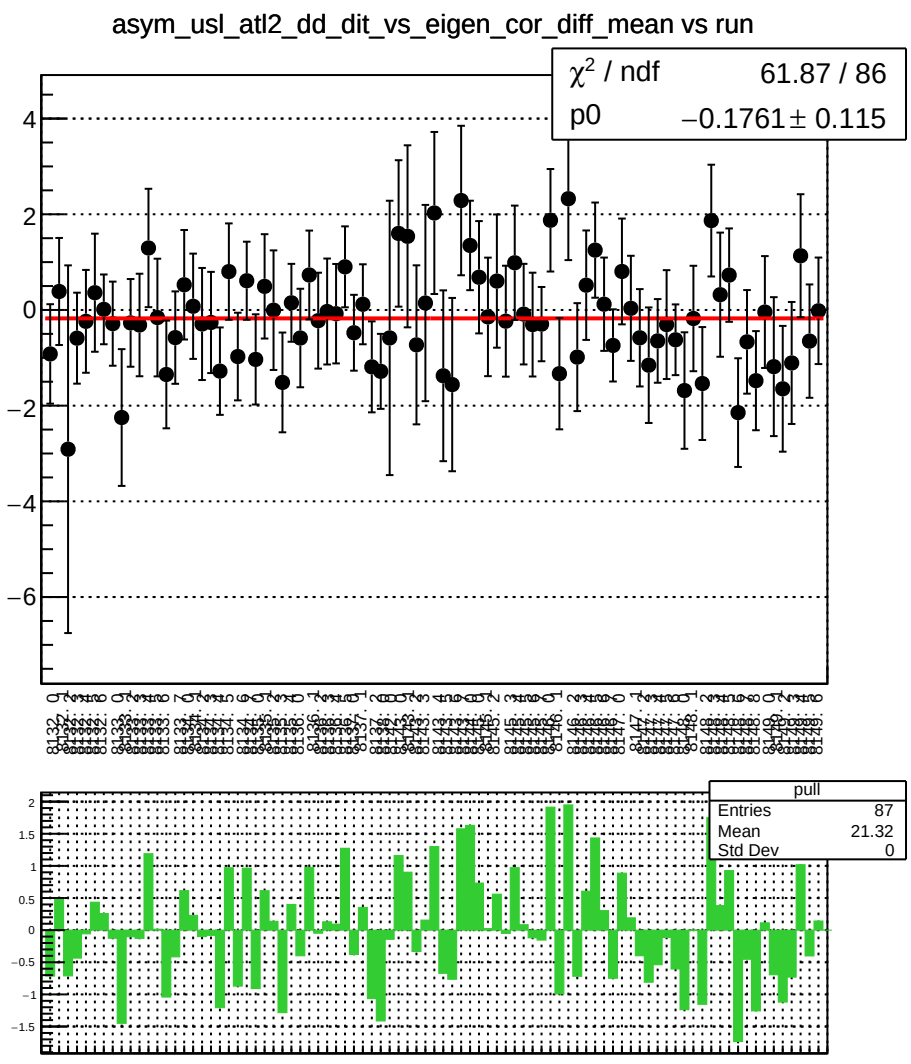

pull1D
Entries 87
Mean −0.07982
Std Dev 1.123

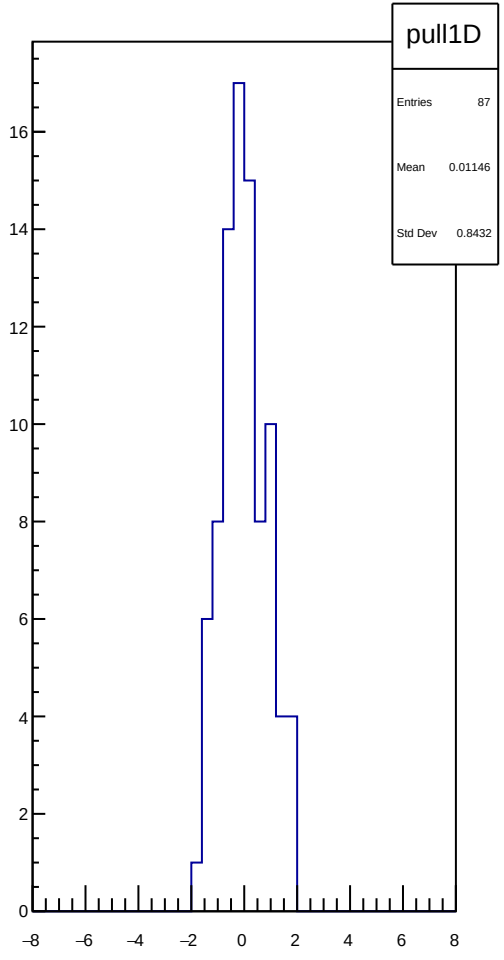

asym_usl_atl2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.007e+06 / 86
p0 2.365e−10 ± 2.804e−13
1.2
1
0.8
0.6
0.4
0.2
0

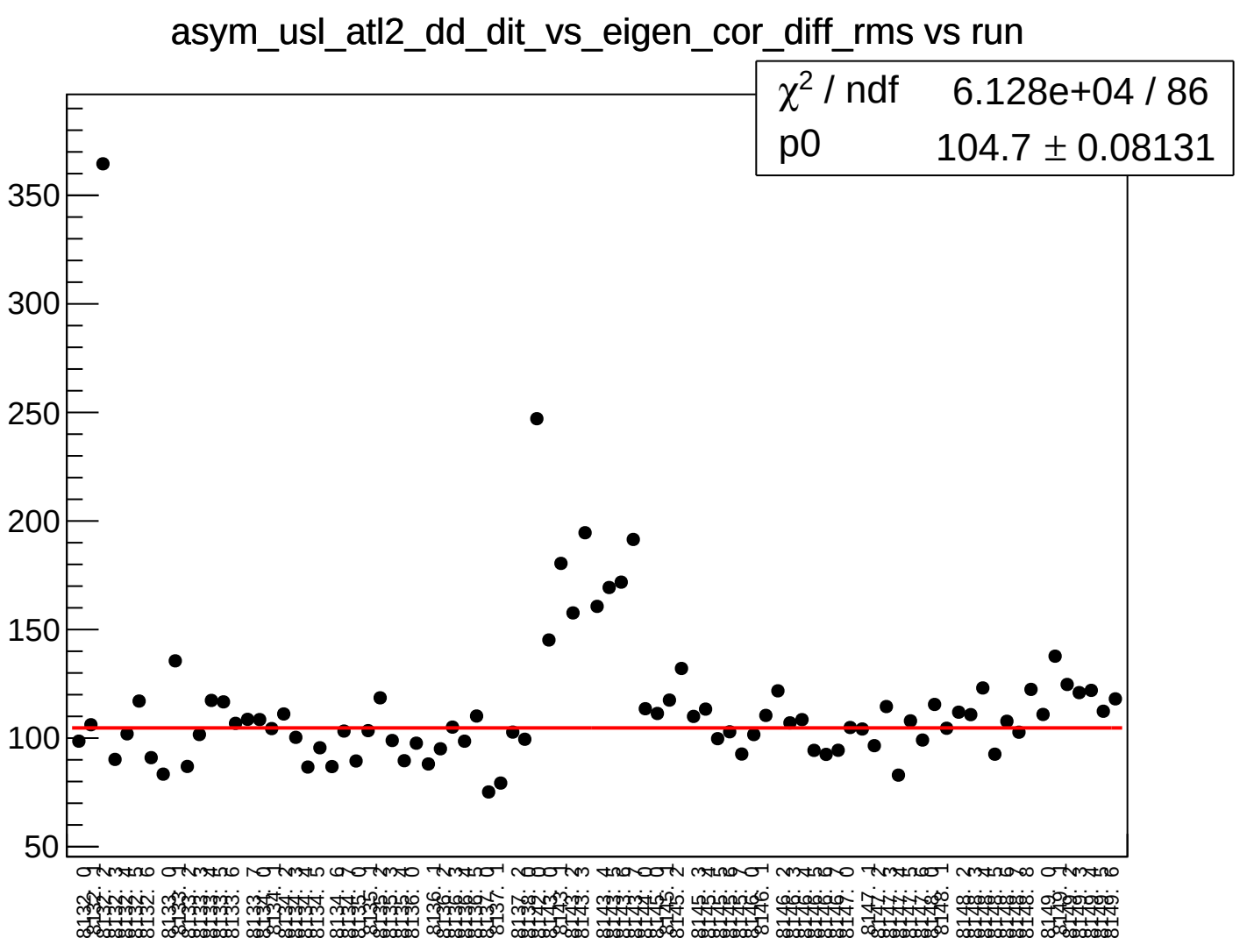

asym_usl_atl2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 61.87 / 86
p0 −0.1761 ± 0.115
pull
Entries 87
Mean 21.32
Std Dev 0

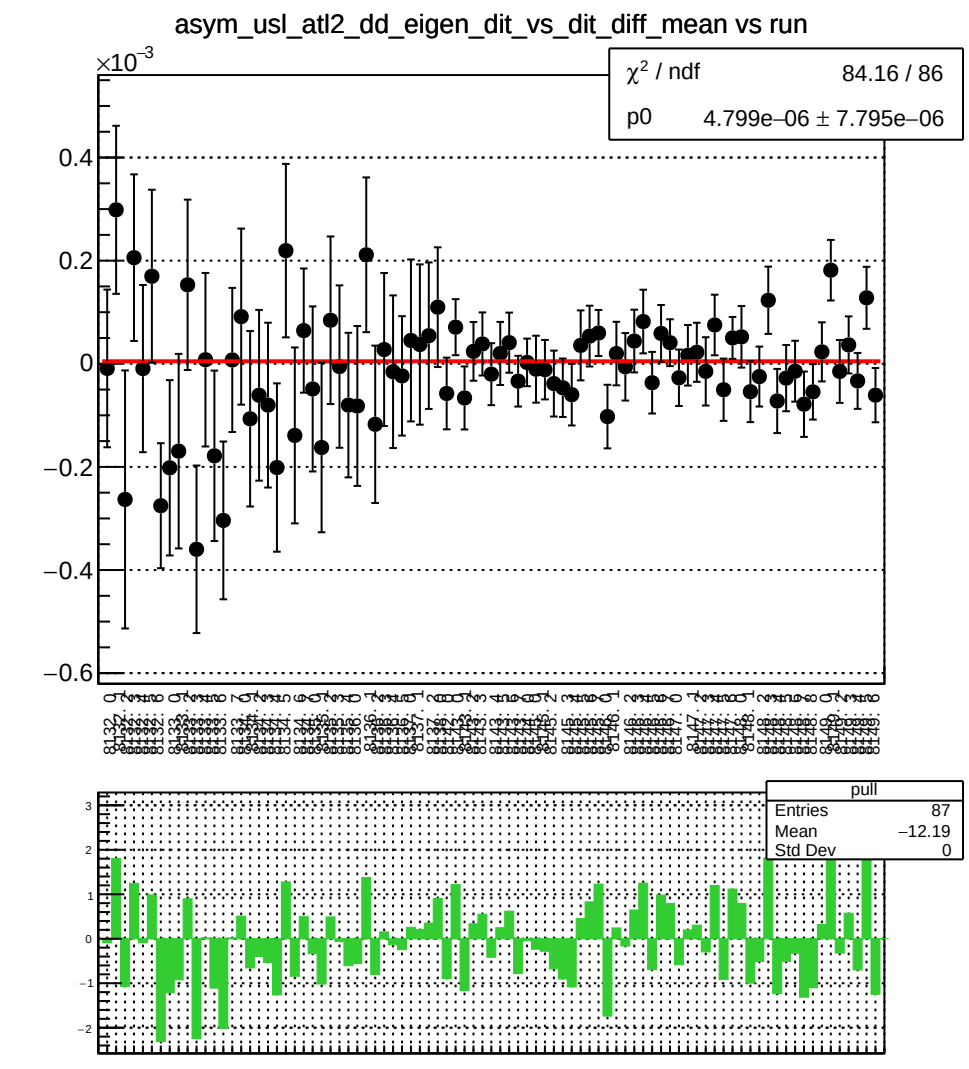

pull1D
Entries 87
Mean 0.01146
Std Dev 0.8432

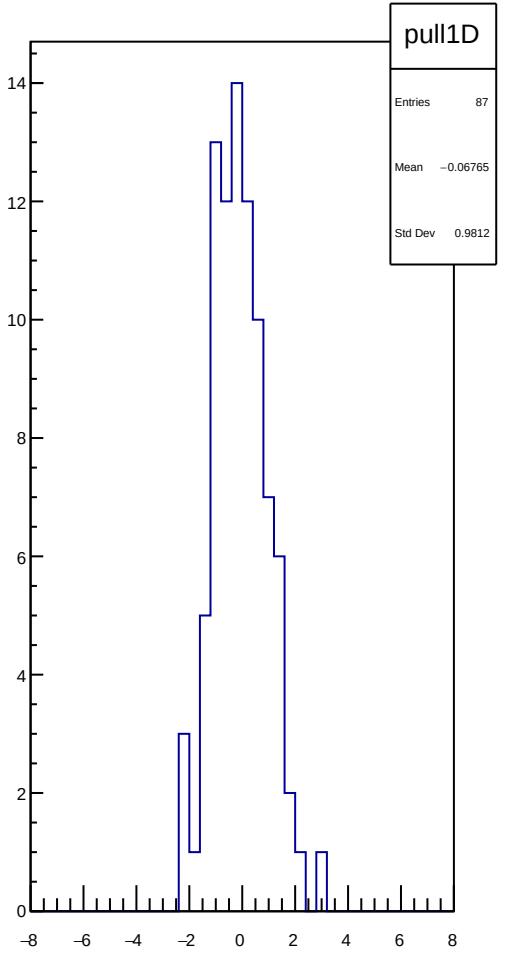

asym_usl_atl2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.128e+04 / 86
p0 104.7 ± 0.08131
350
300
250
200
150
100
50

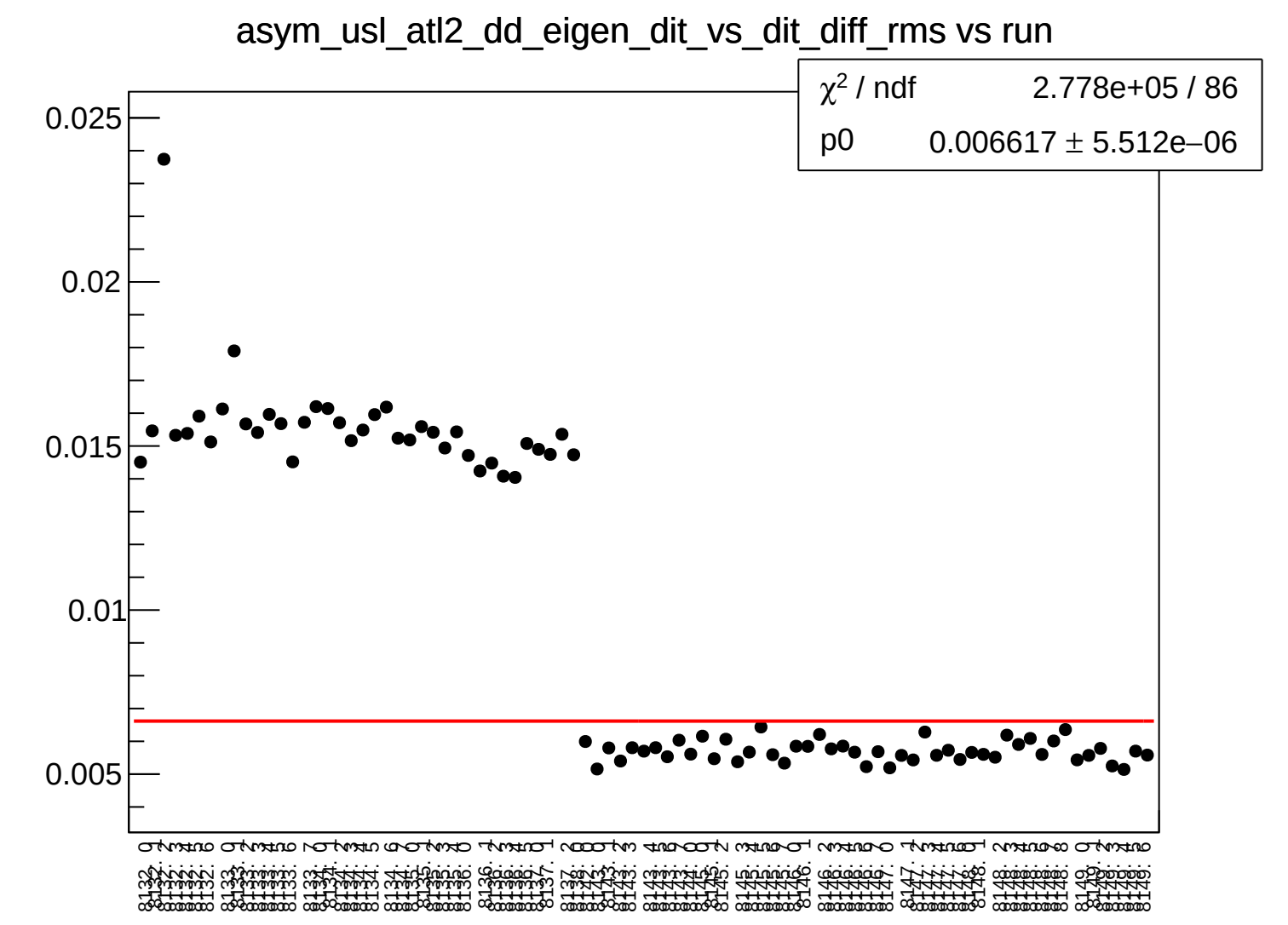

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 61.87 / 86
p0 −0.1761 ± 0.115
pull
Entries 87
Mean 21.32
Std Dev 0

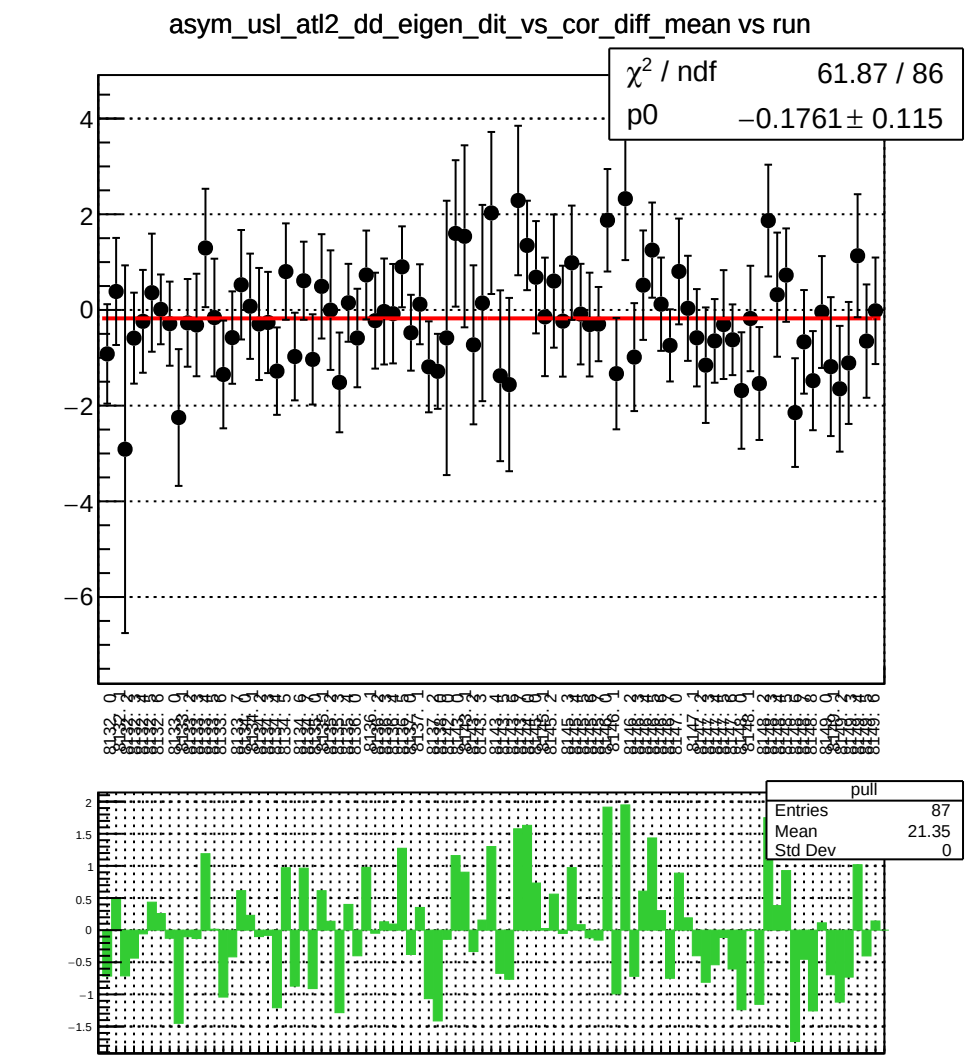

pull1D
Entries 87
Mean 0.01146
Std Dev 0.8432

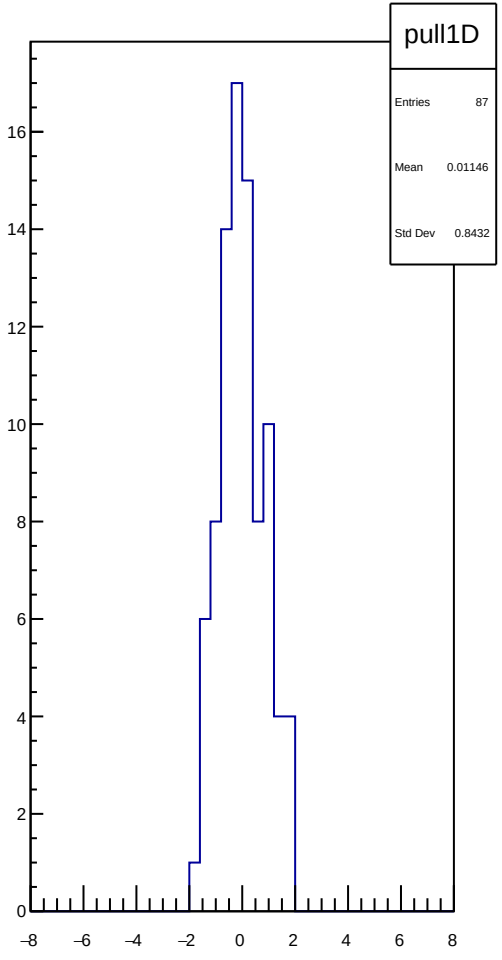

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.128e+04 / 86
p0 104.7 ± 0.08131
350
300
250
200
150
100
50

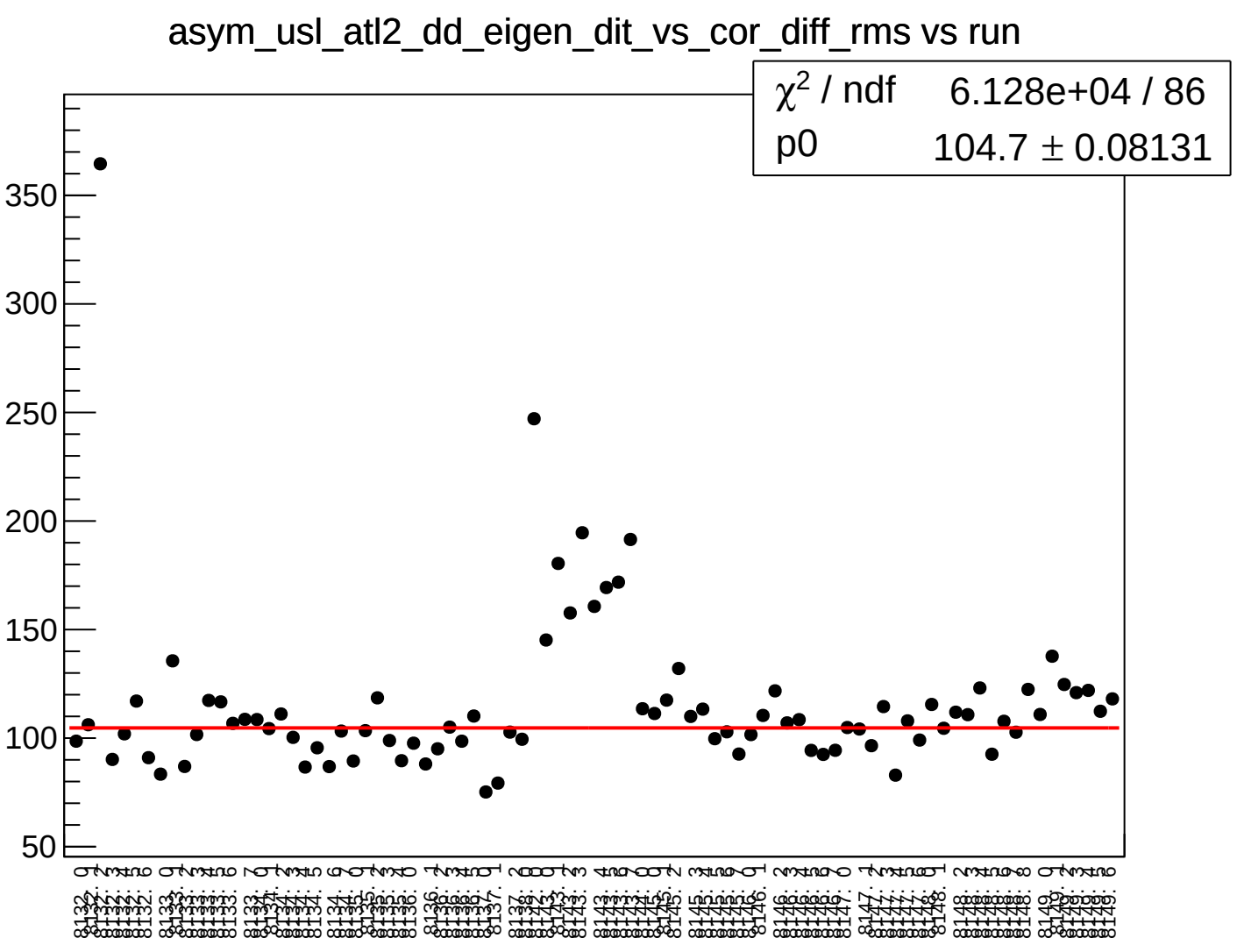

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.16 / 86
p0 4.799e−06 ± 7.795e−06
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 87
Mean −12.19
Std Dev 0
3
2
1
0
−1
−2

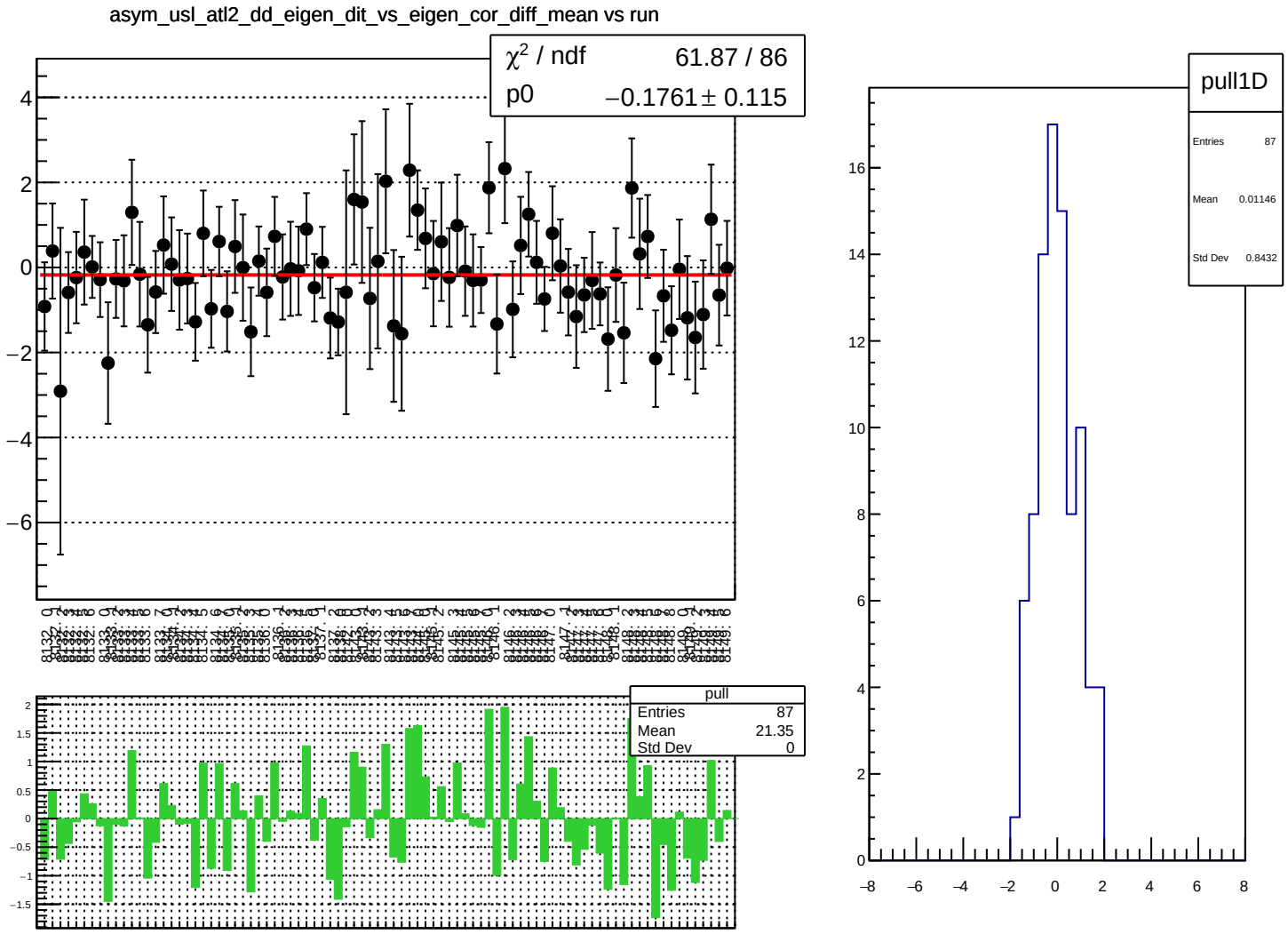

pull1D
Entries 87
Mean −0.06765
Std Dev 0.9812
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

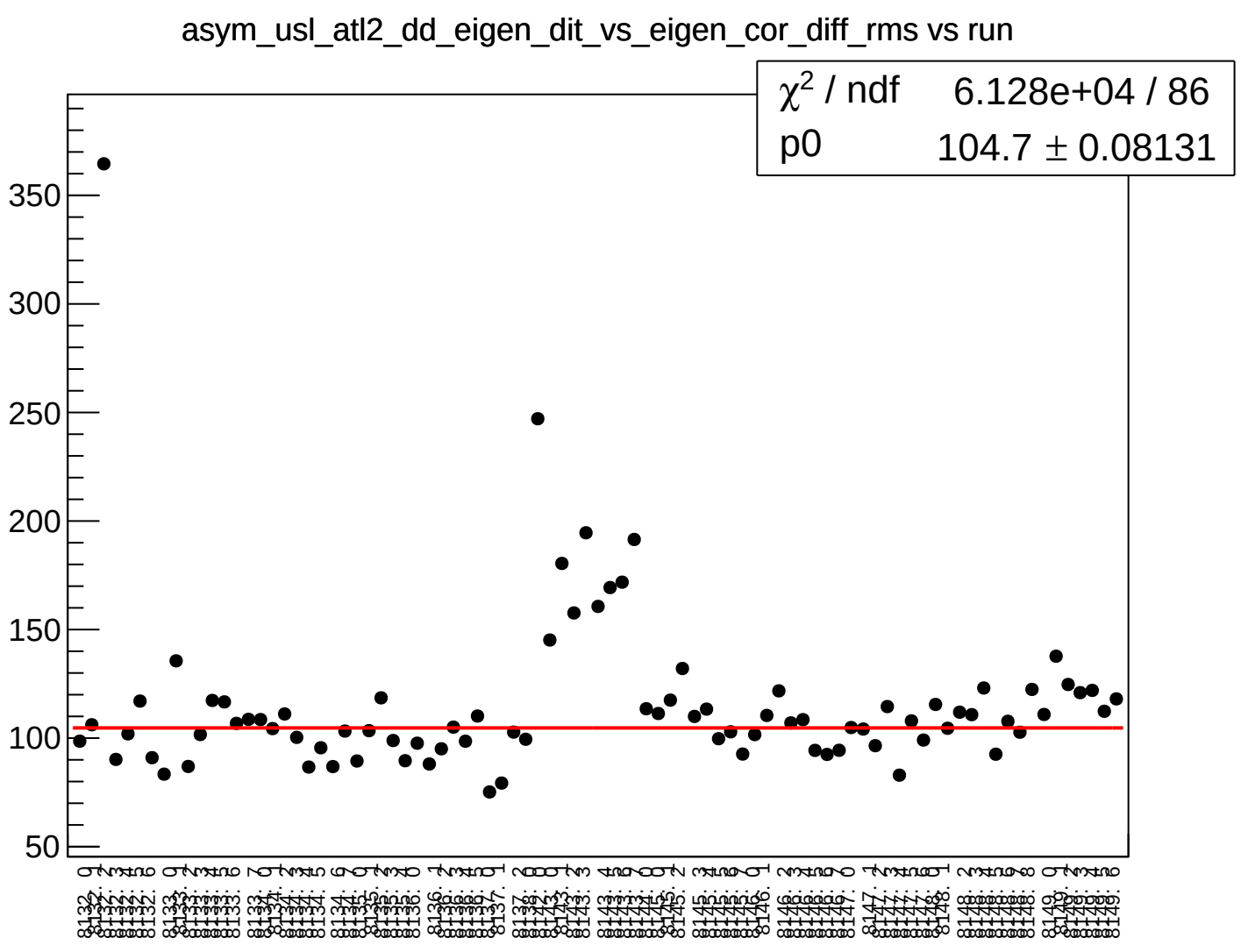

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.778e+05 / 86
p0 0.006617 ± 5.512e−06
0.025
0.02
0.015
0.01
0.005

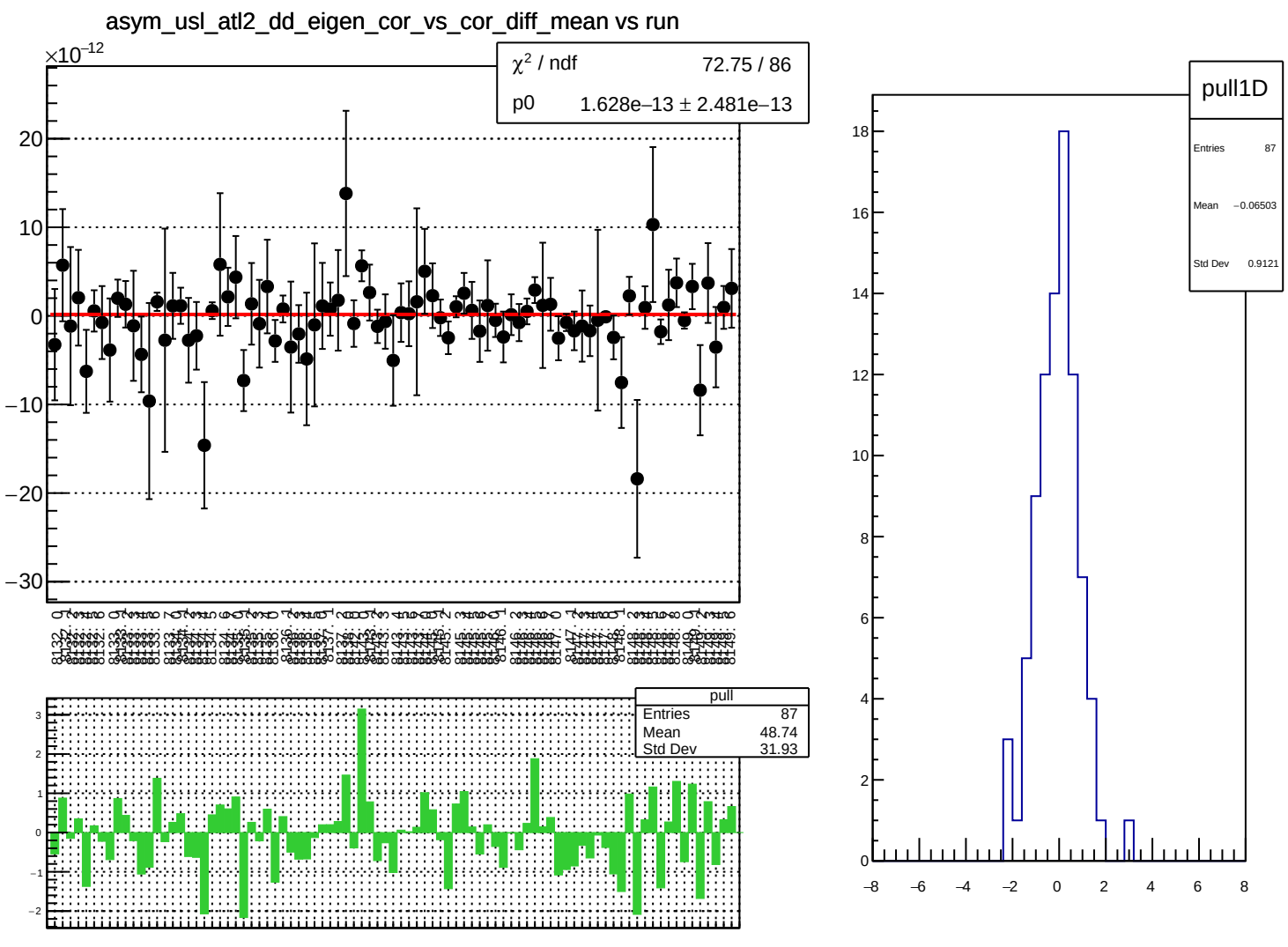

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 61.87 / 86
p0 −0.1761 ± 0.115
pull
Entries 87
Mean 21.35
Std Dev 0

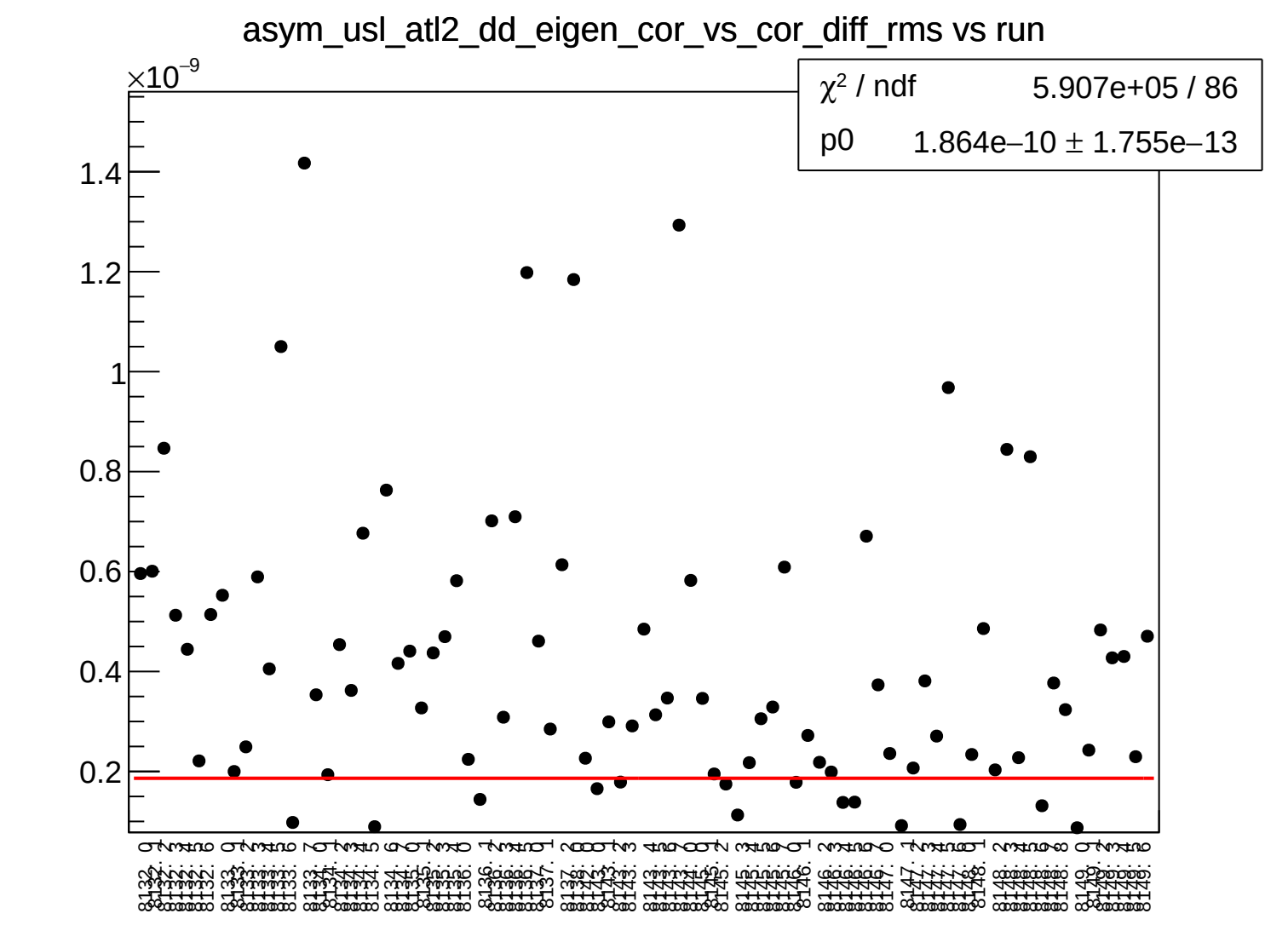

pull1D
Entries 87
Mean 0.01146
Std Dev 0.8432

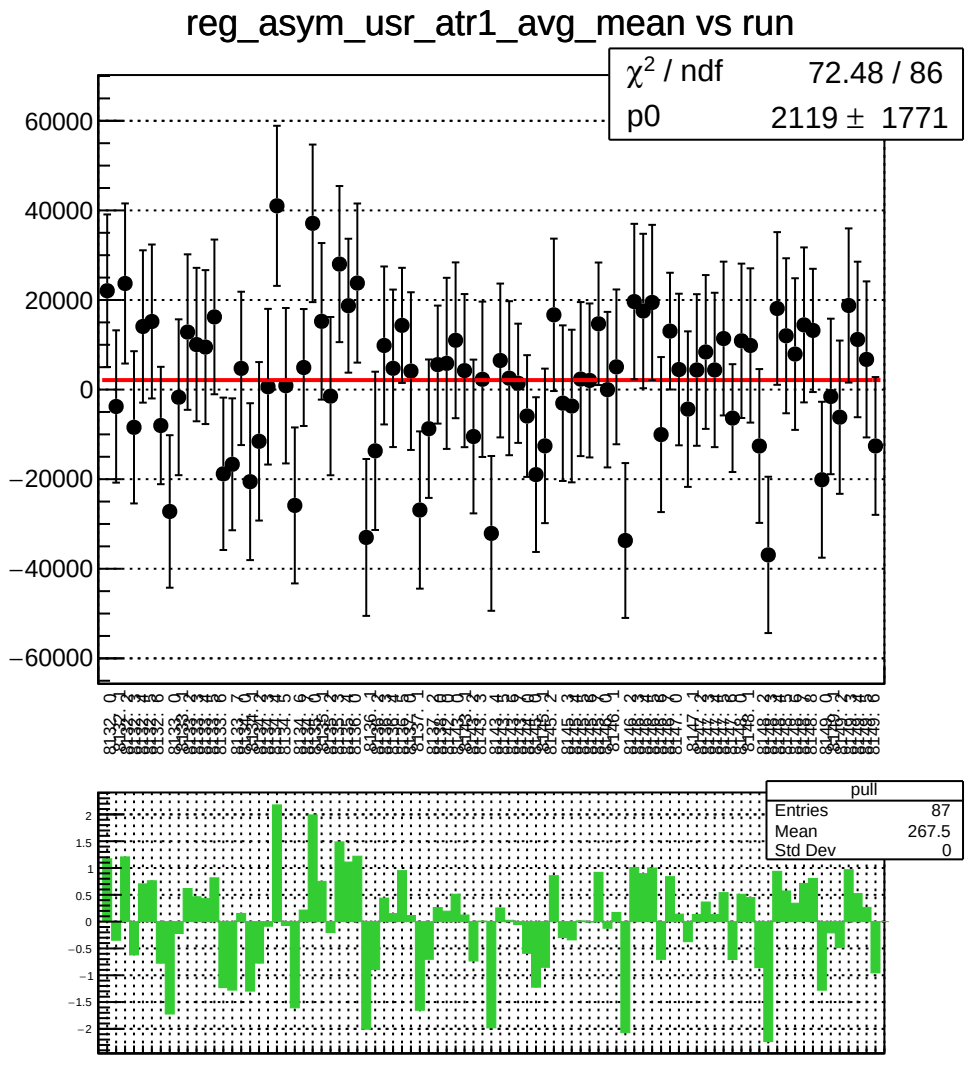

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.128e+04 / 86
p0 104.7 ± 0.08131
350
300
250
200
150
100
50

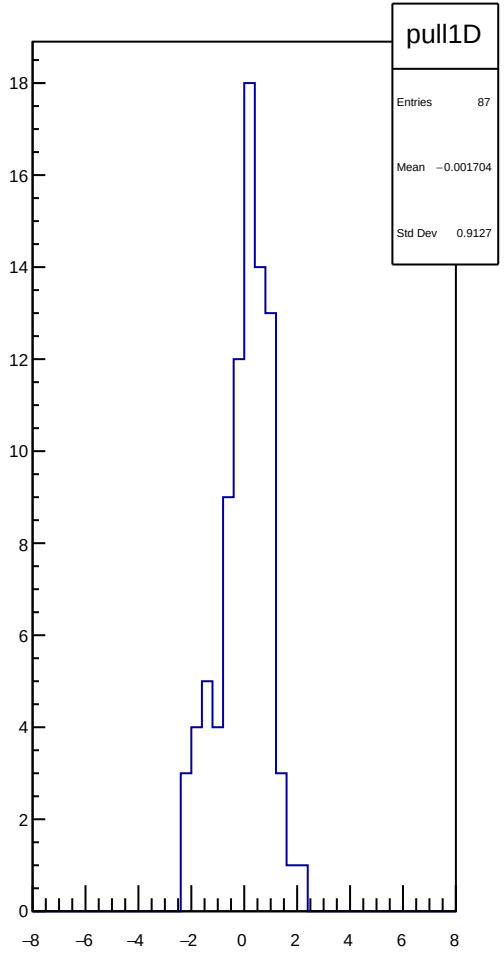

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 61.87 / 86
p0 −0.1761 ± 0.115
pull
Entries 87
Mean 21.35
Std Dev 0
pull1D
Entries 87
Mean 0.01146
Std Dev 0.8432

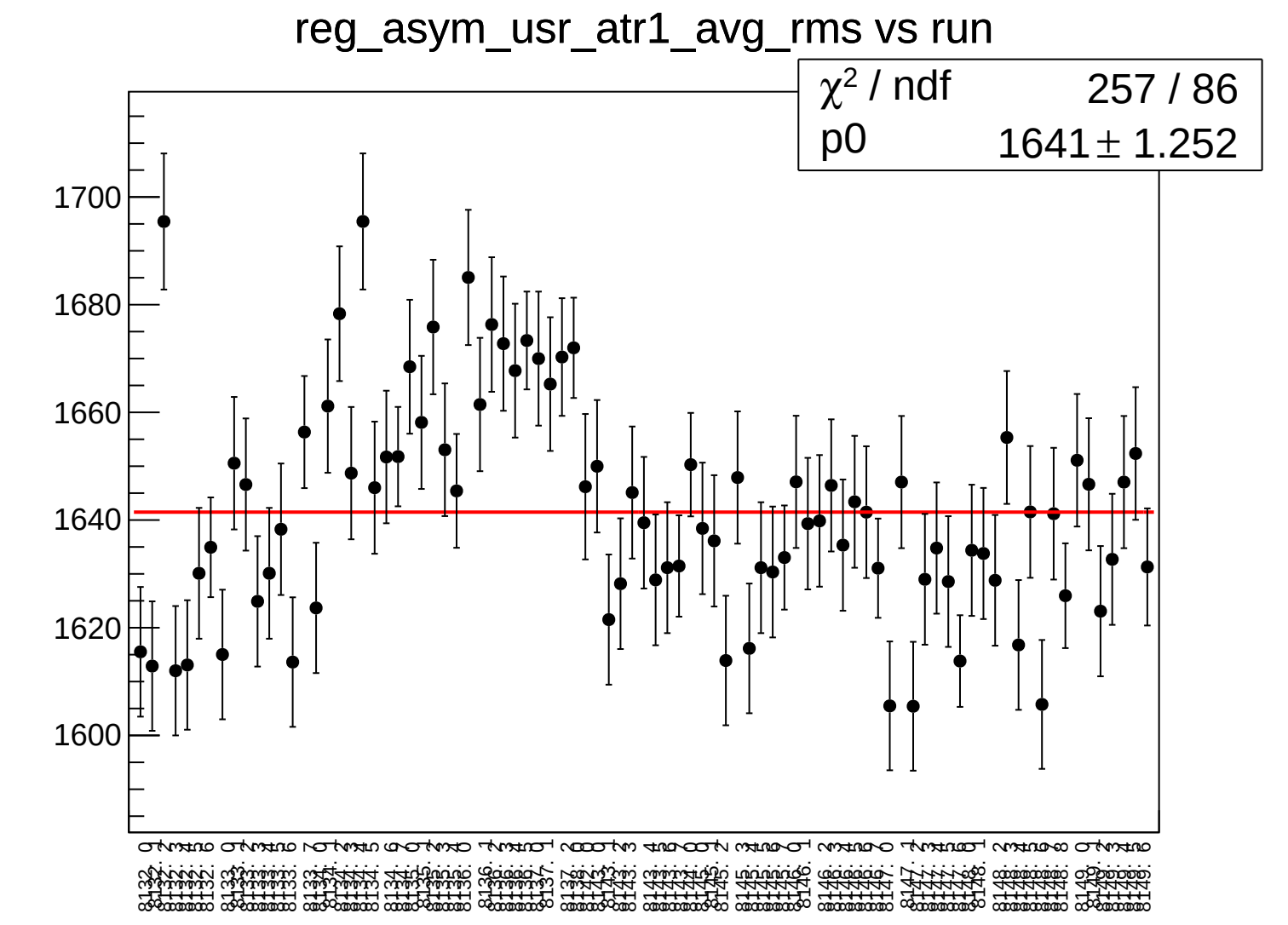

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.128e+04 / 86
p0 104.7 ± 0.08131
350
300
250
200
150
100
50

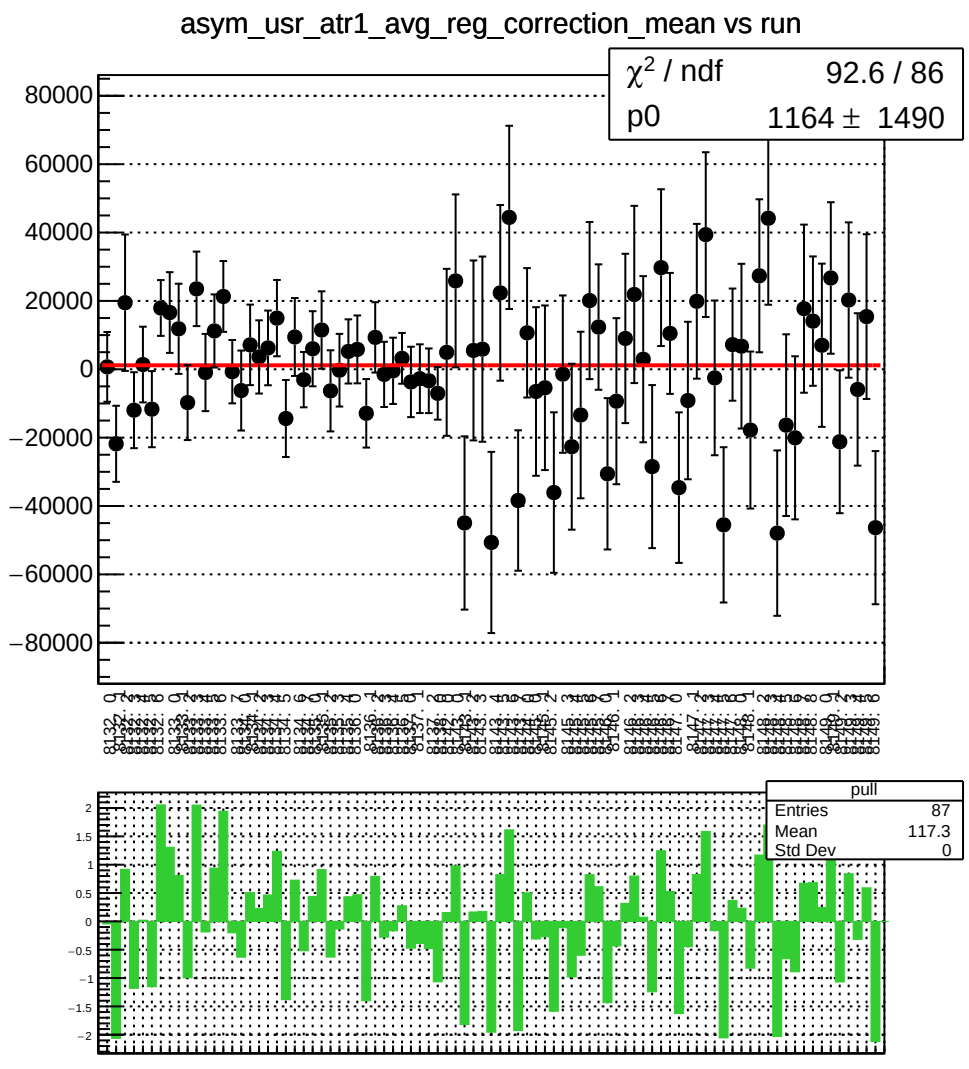

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.75 / 86
p0 1.628e−13 ± 2.481e−13
20
10
0
−10
−20
−30
pull
Entries 87
Mean 48.74
Std Dev 31.93
3
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.06503
Std Dev 0.9121
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

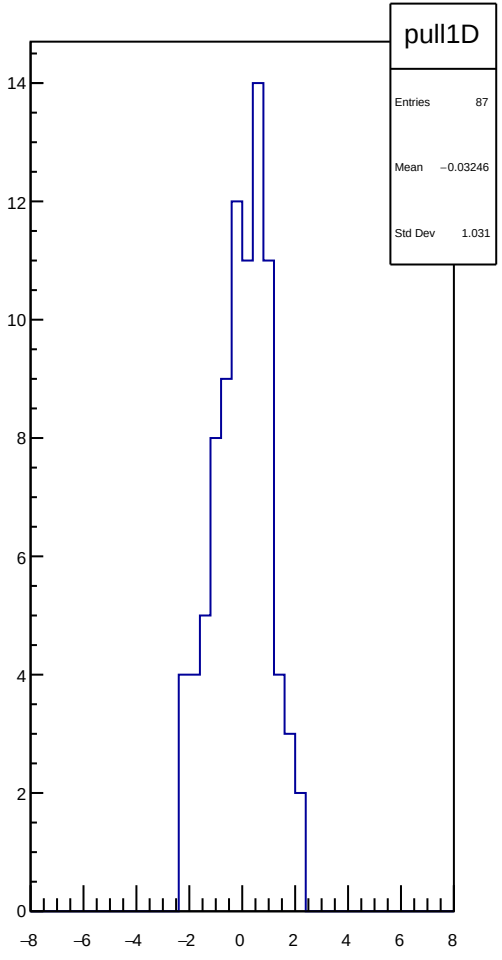

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.907e+05 / 86
p0 1.864e−10 ± 1.755e−13
1.4
1.2
1
0.8
0.6
0.4
0.2

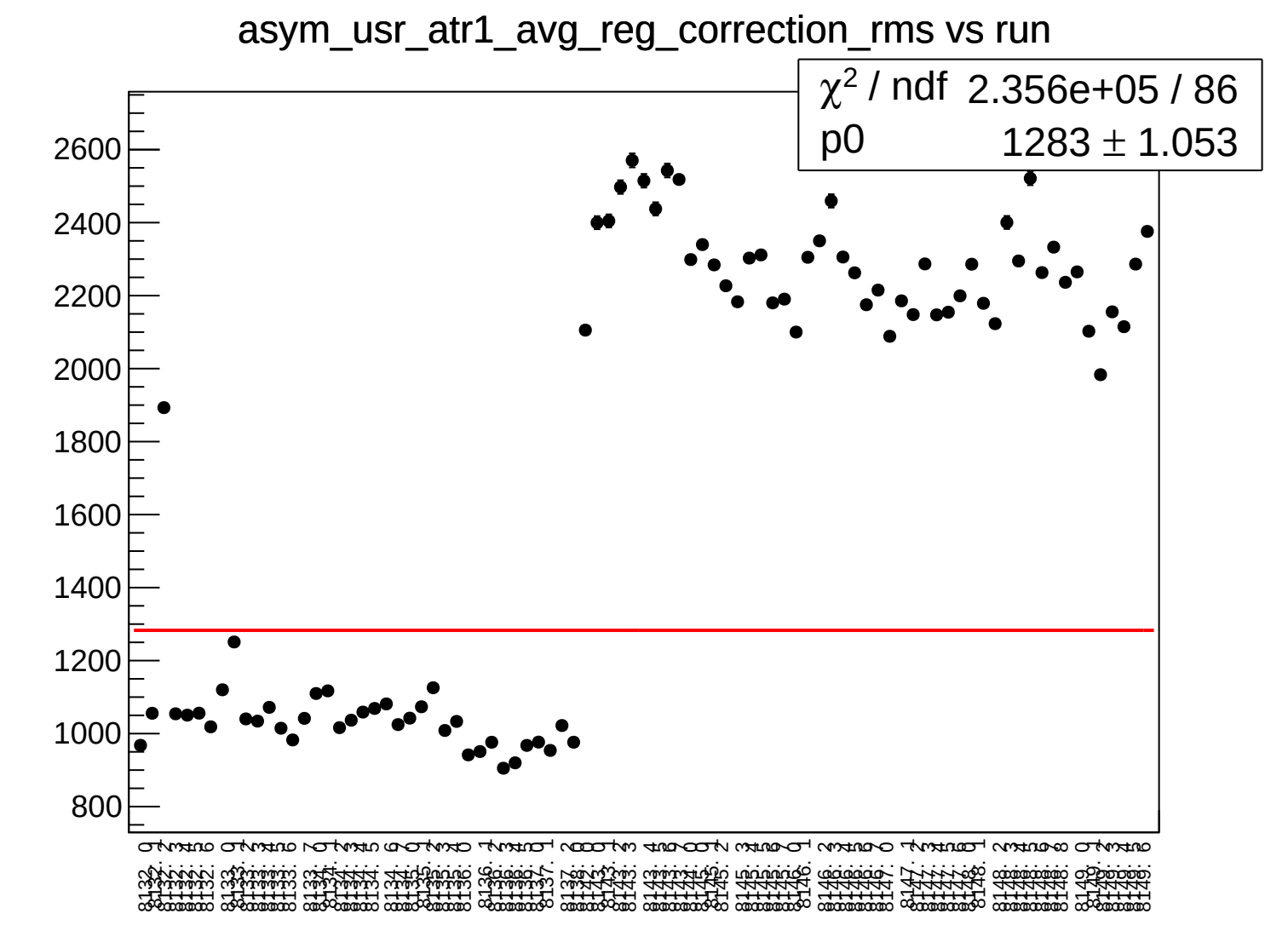

reg_asym_usr_atr1_avg_mean vs run
χ² / ndf 72.48 / 86
p0 2119 ± 1771
pull
Entries 87
Mean 267.5
Std Dev 0

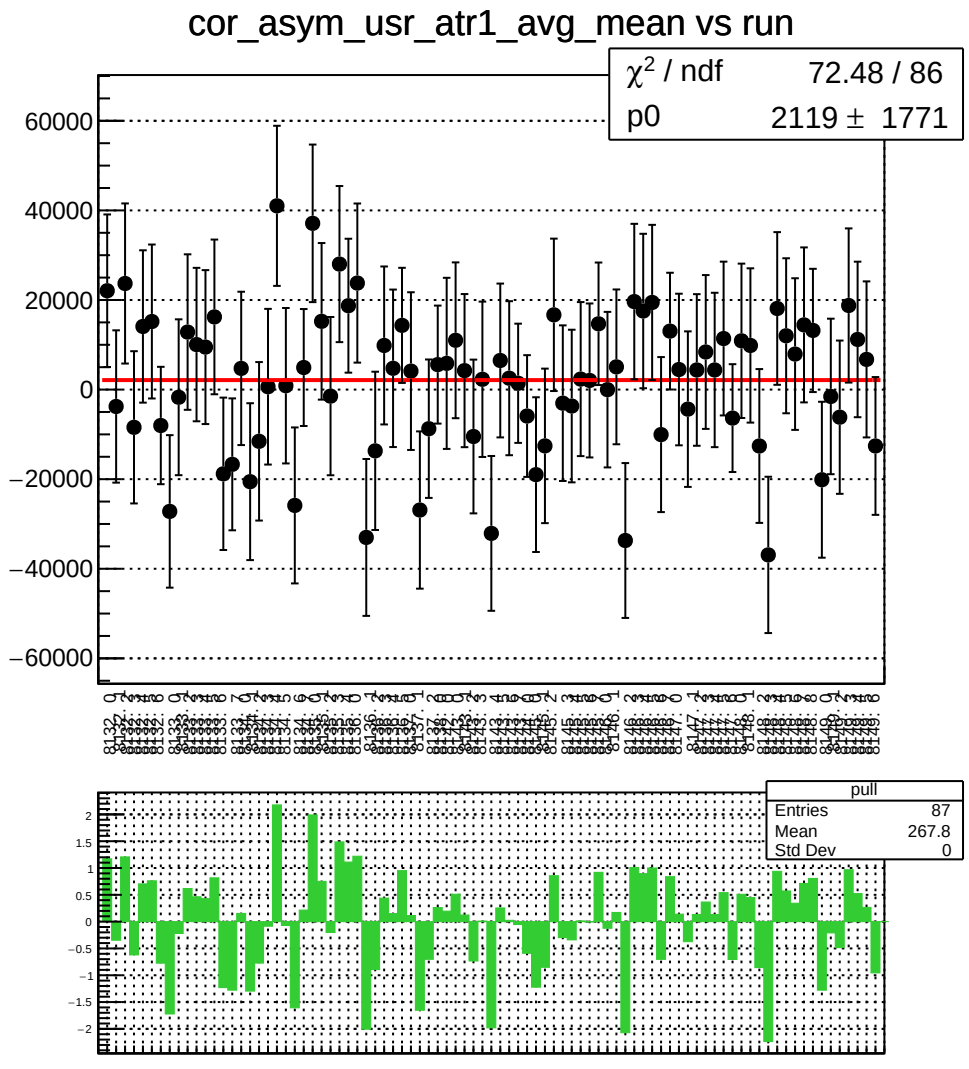

pull1D
Entries 87
Mean −0.001704
Std Dev 0.9127

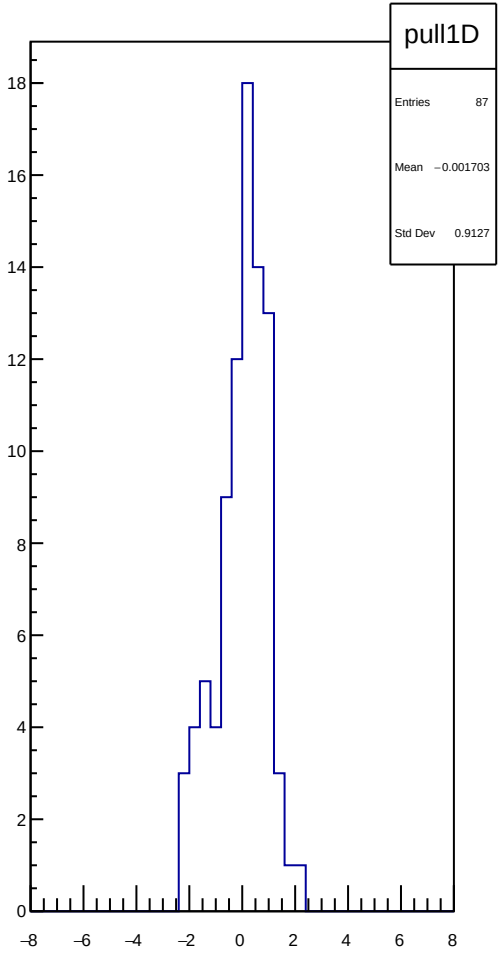

reg_asym_usr_atr1_avg_rms vs run
χ² / ndf 257 / 86
p0 1641 ± 1.252
1700
1680
1660
1640
1620
1600

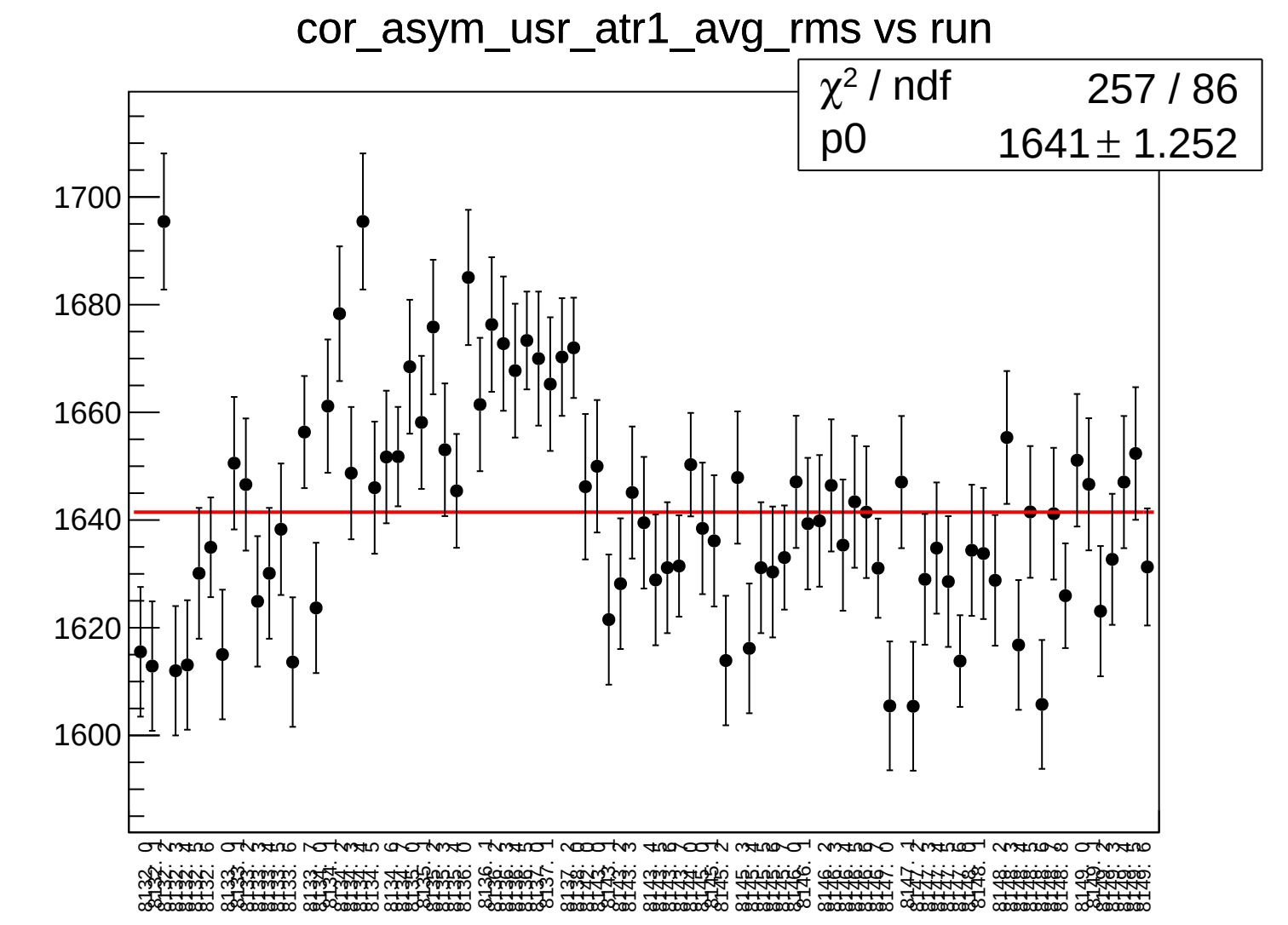

asym_usr_atr1_avg_reg_correction_mean vs run
χ² / ndf 92.6 / 86
p0 1164 ± 1490
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean 117.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

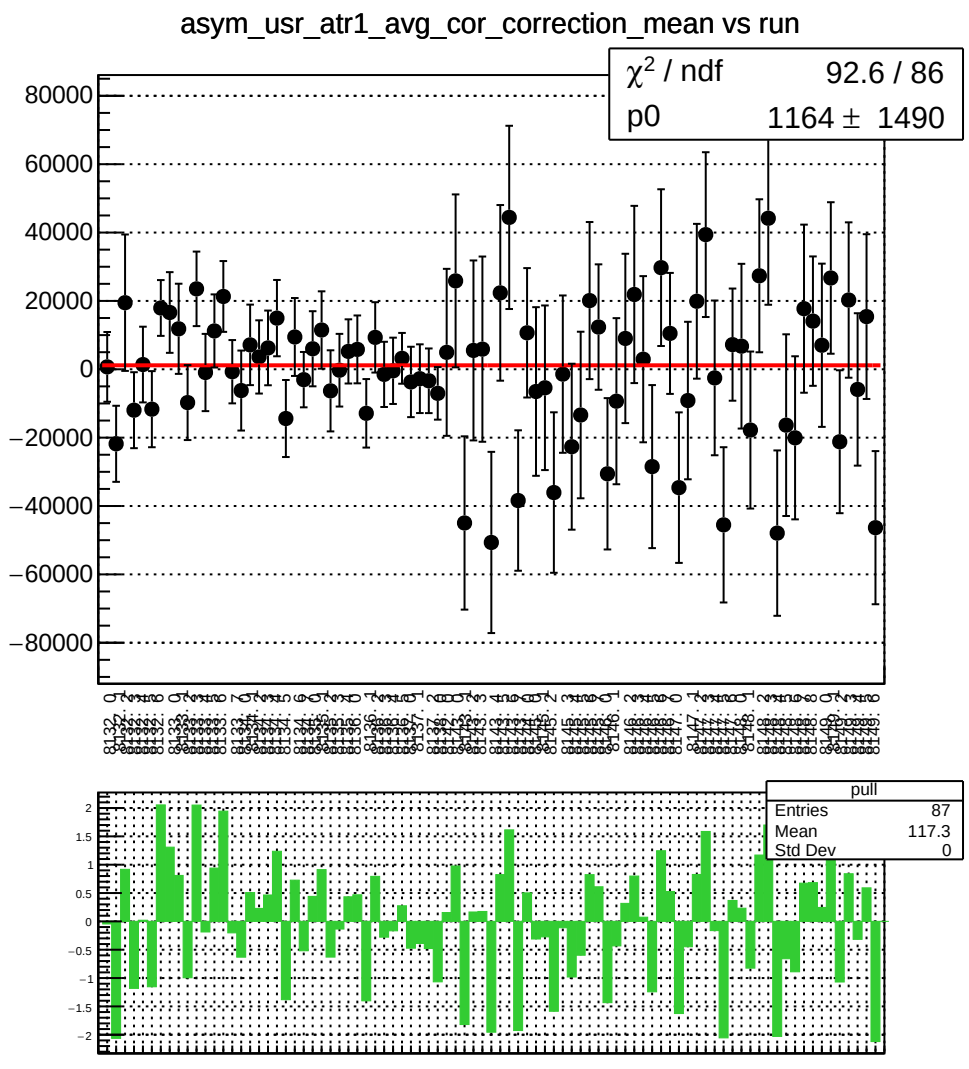

pull1D
Entries 87
Mean −0.03246
Std Dev 1.031
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

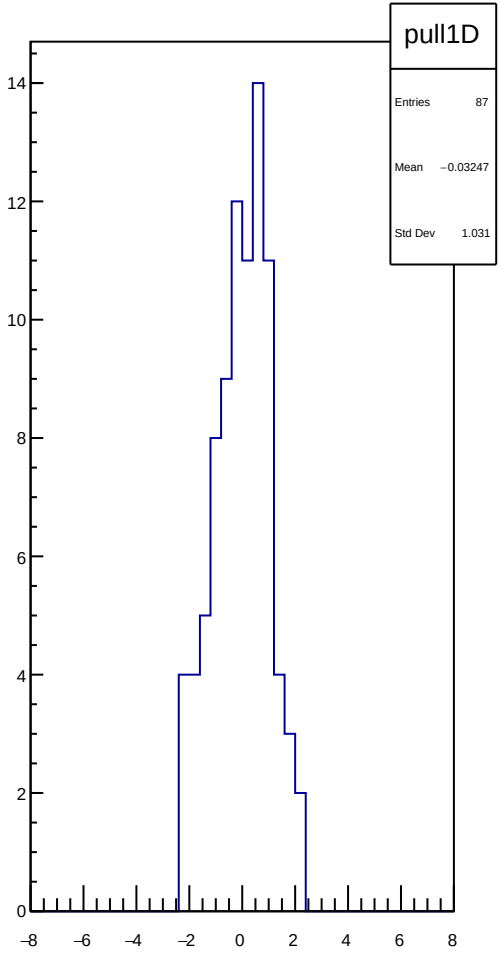

asym_usr_atr1_avg_reg_correction_rms vs run
χ² / ndf 2.356e+05 / 86
p0 1283 ± 1.053
2600
2400
2200
2000
1800
1600
1400
1200
1000
800

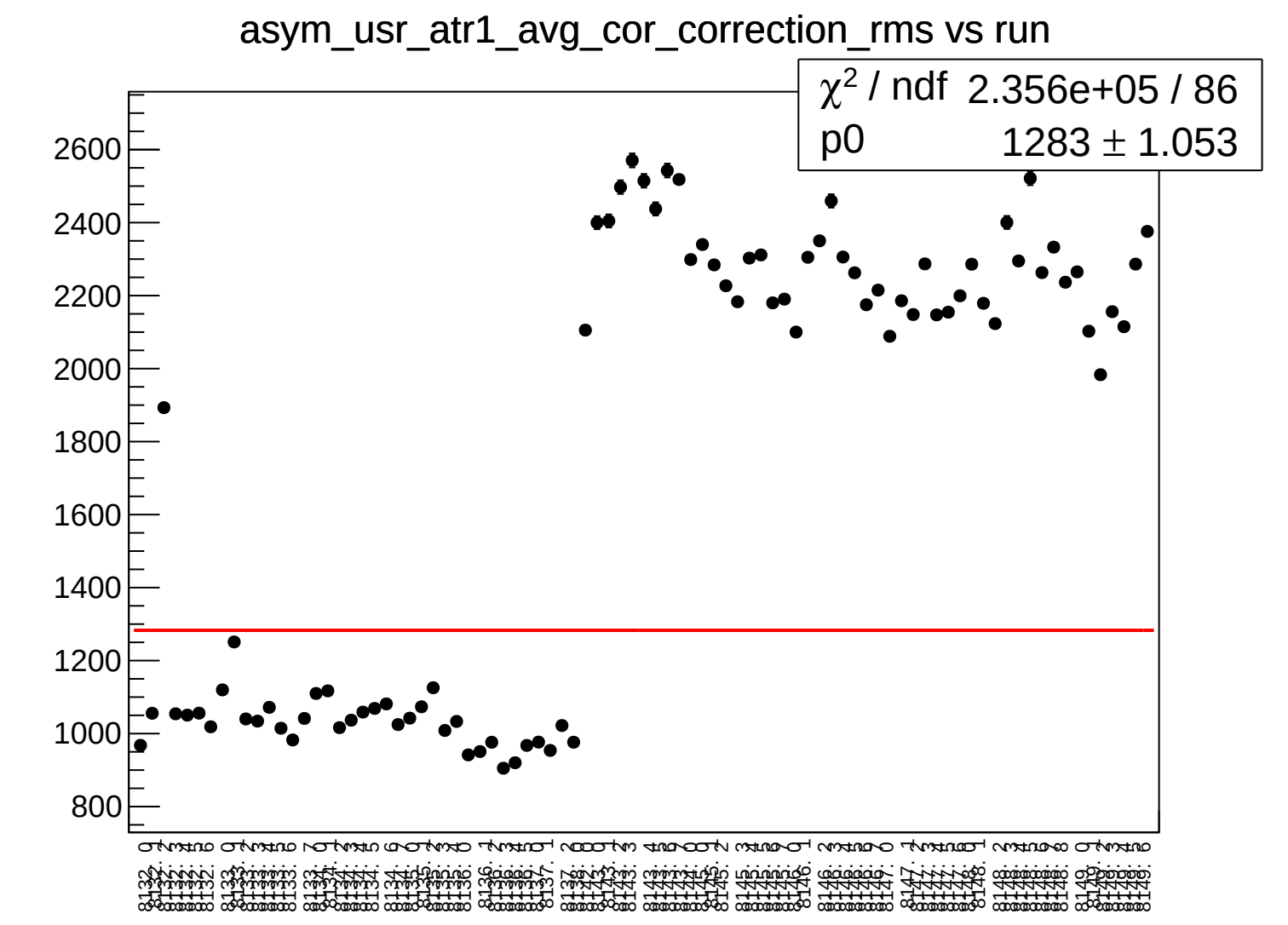

cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 72.48 / 86
p0 2119 ± 1771
pull
Entries 87
Mean 267.8
Std Dev 0

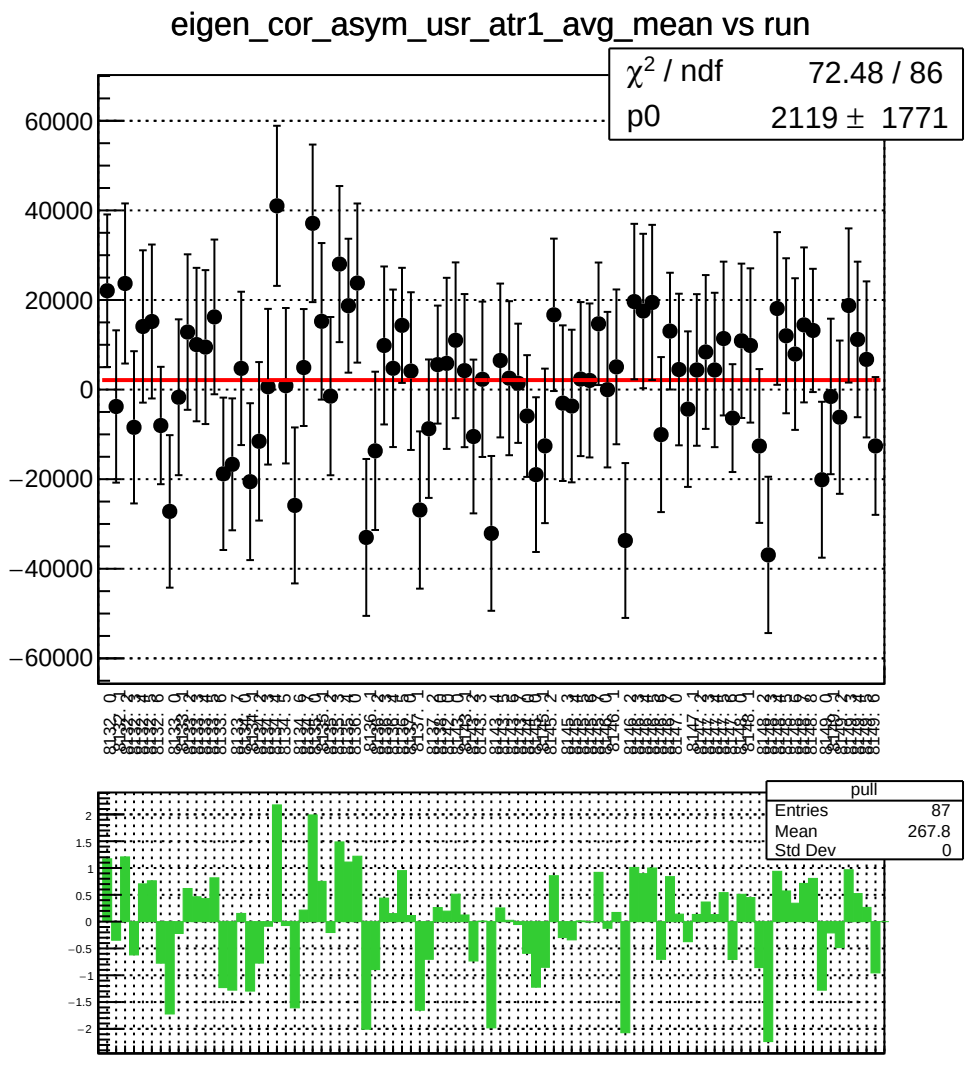

pull1D
Entries 87
Mean −0.001703
Std Dev 0.9127

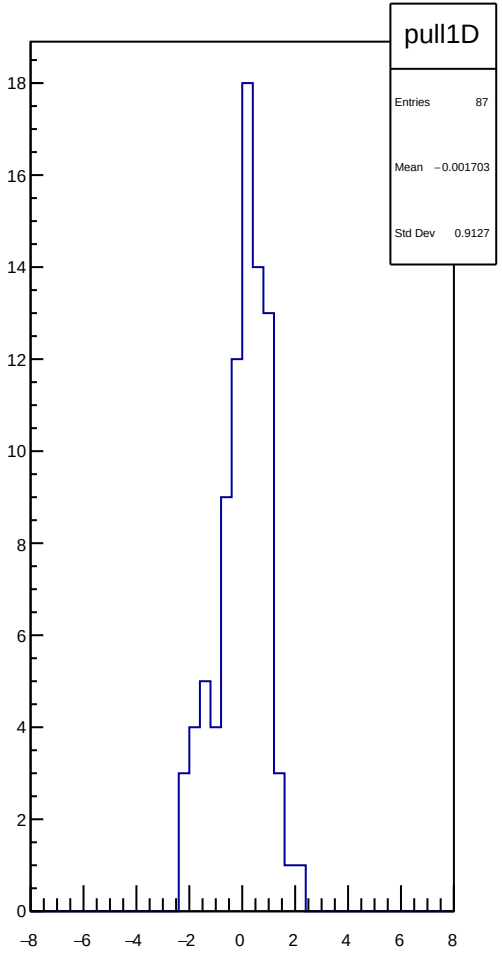

cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 257 / 86
p0 1641 ± 1.252
1700
1680
1660
1640
1620
1600

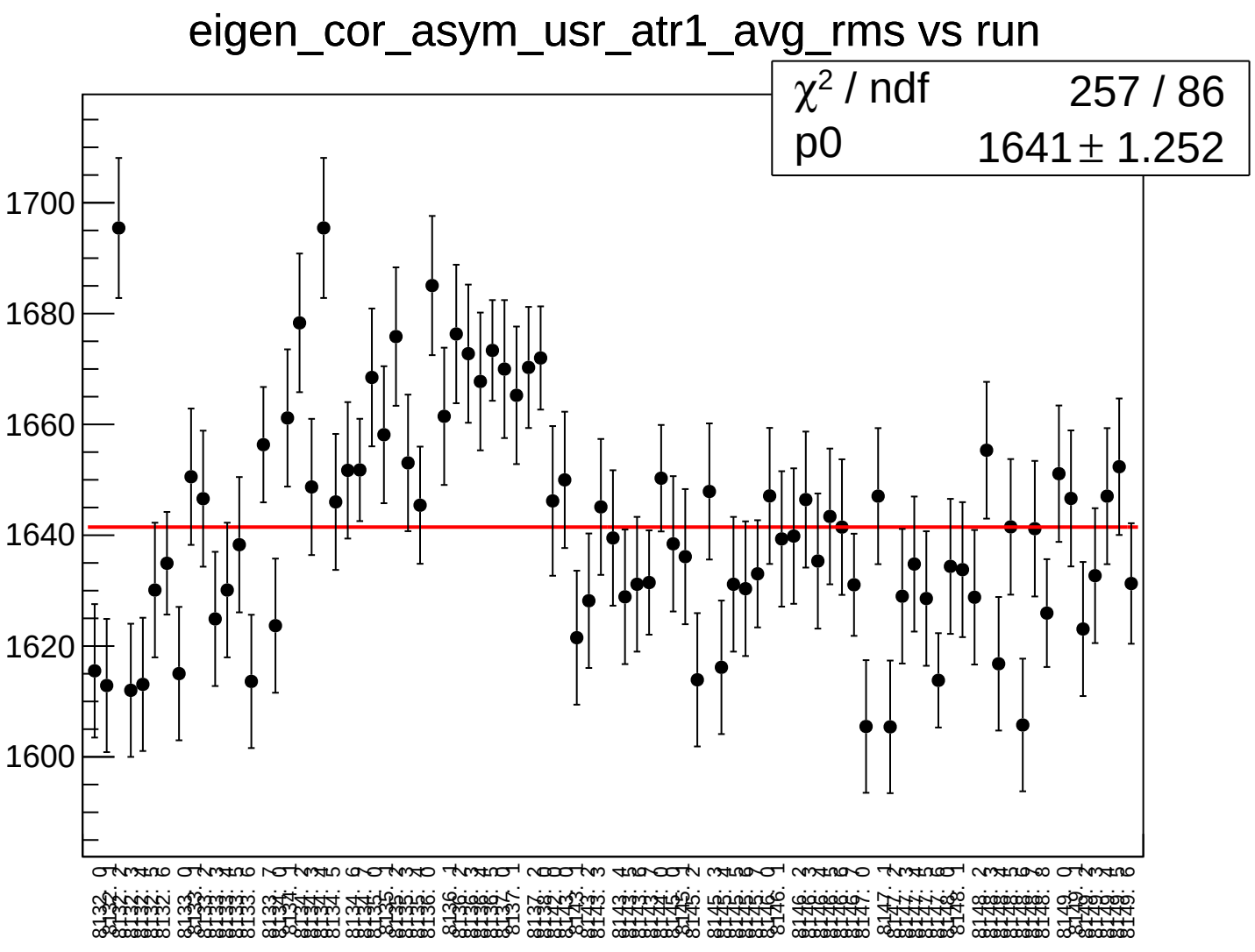

asym_usr_atr1_avg_cor_correction_mean vs run
χ² / ndf 92.6 / 86
p0 1164 ± 1490
pull
Entries 87
Mean 117.3
Std Dev 0

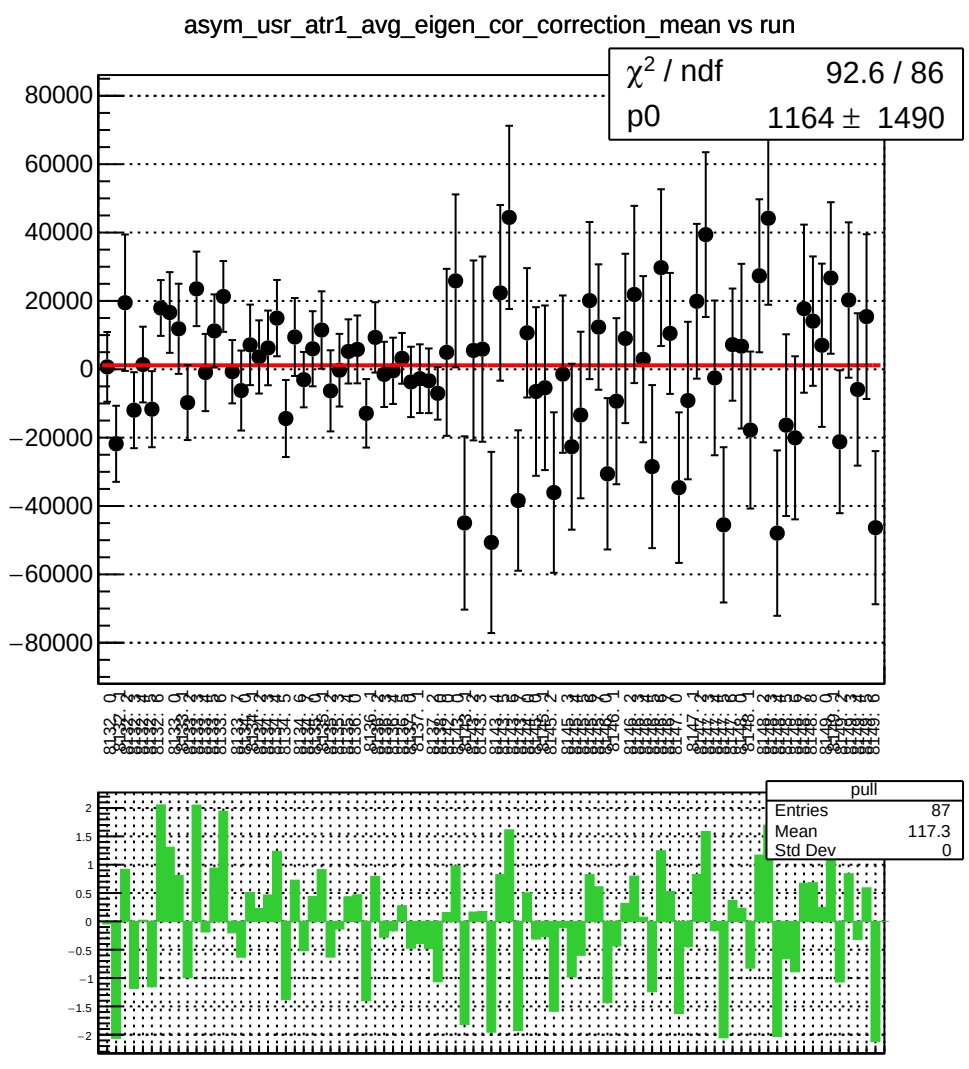

pull1D
Entries 87
Mean −0.03247
Std Dev 1.031

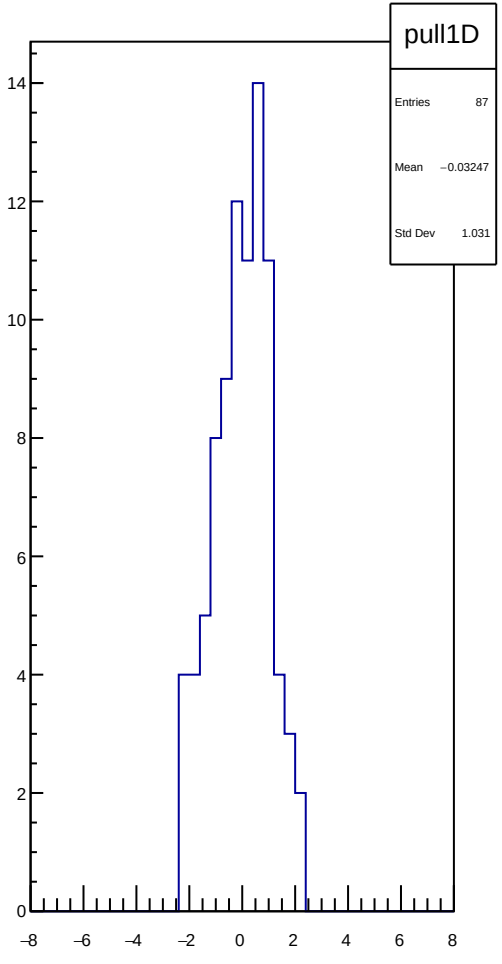

asym_usr_atr1_avg_cor_correction_rms vs run
χ² / ndf 2.356e+05 / 86
p0 1283 ± 1.053
2600
2400
2200
2000
1800
1600
1400
1200
1000
800

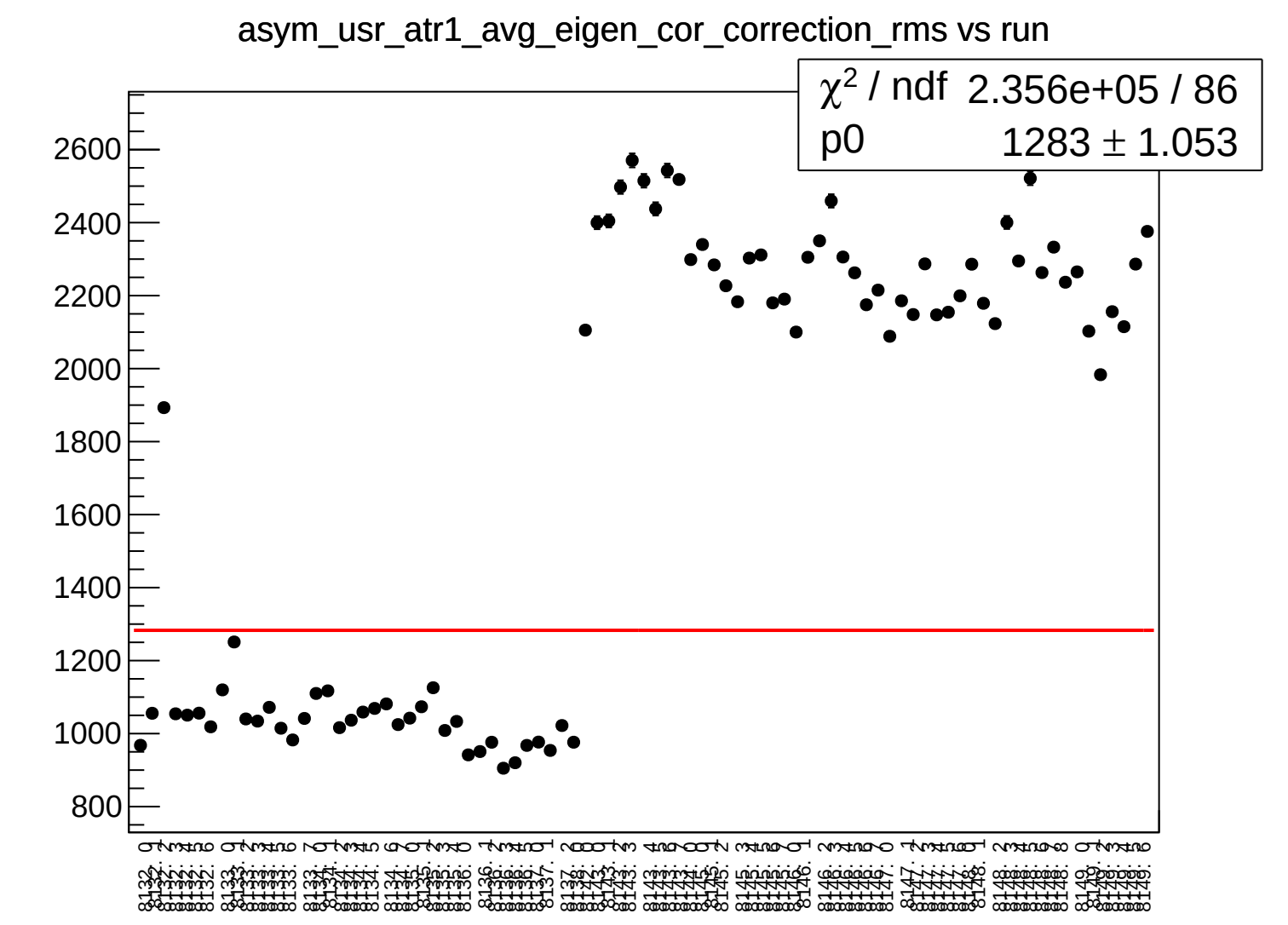

eigen_cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 72.48 / 86
p0 2119 ± 1771
pull
Entries 87
Mean 267.8
Std Dev 0

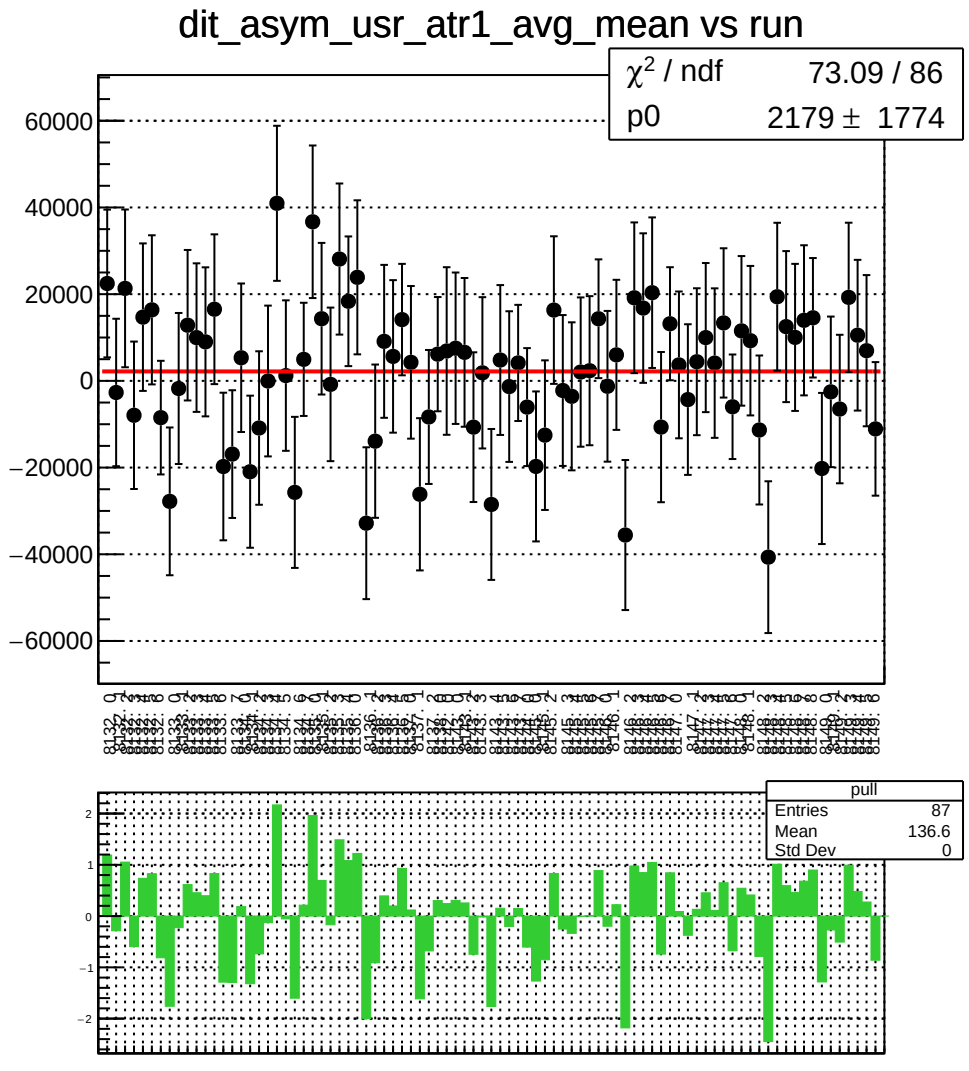

pull1D
Entries 87
Mean −0.001703
Std Dev 0.9127

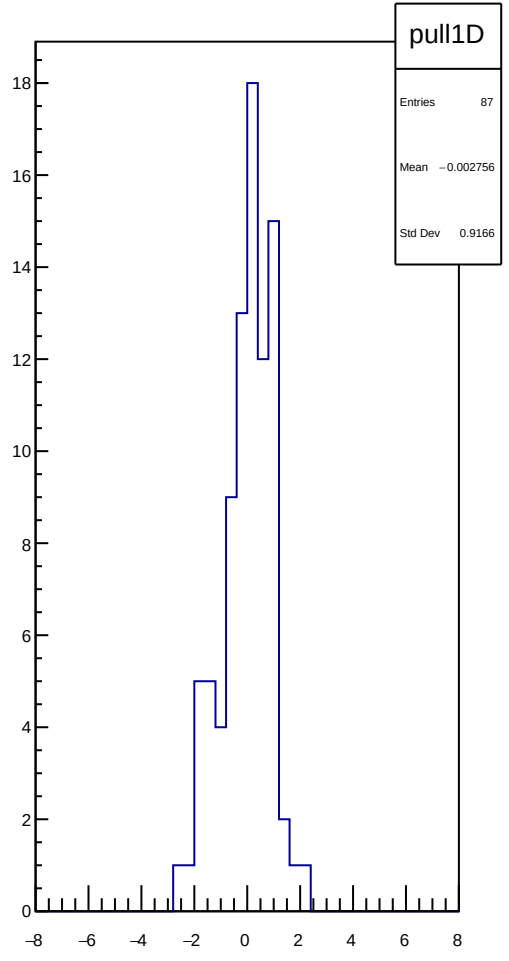

eigen_cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 257 / 86
p0 1641 ± 1.252
1700
1680
1660
1640
1620
1600

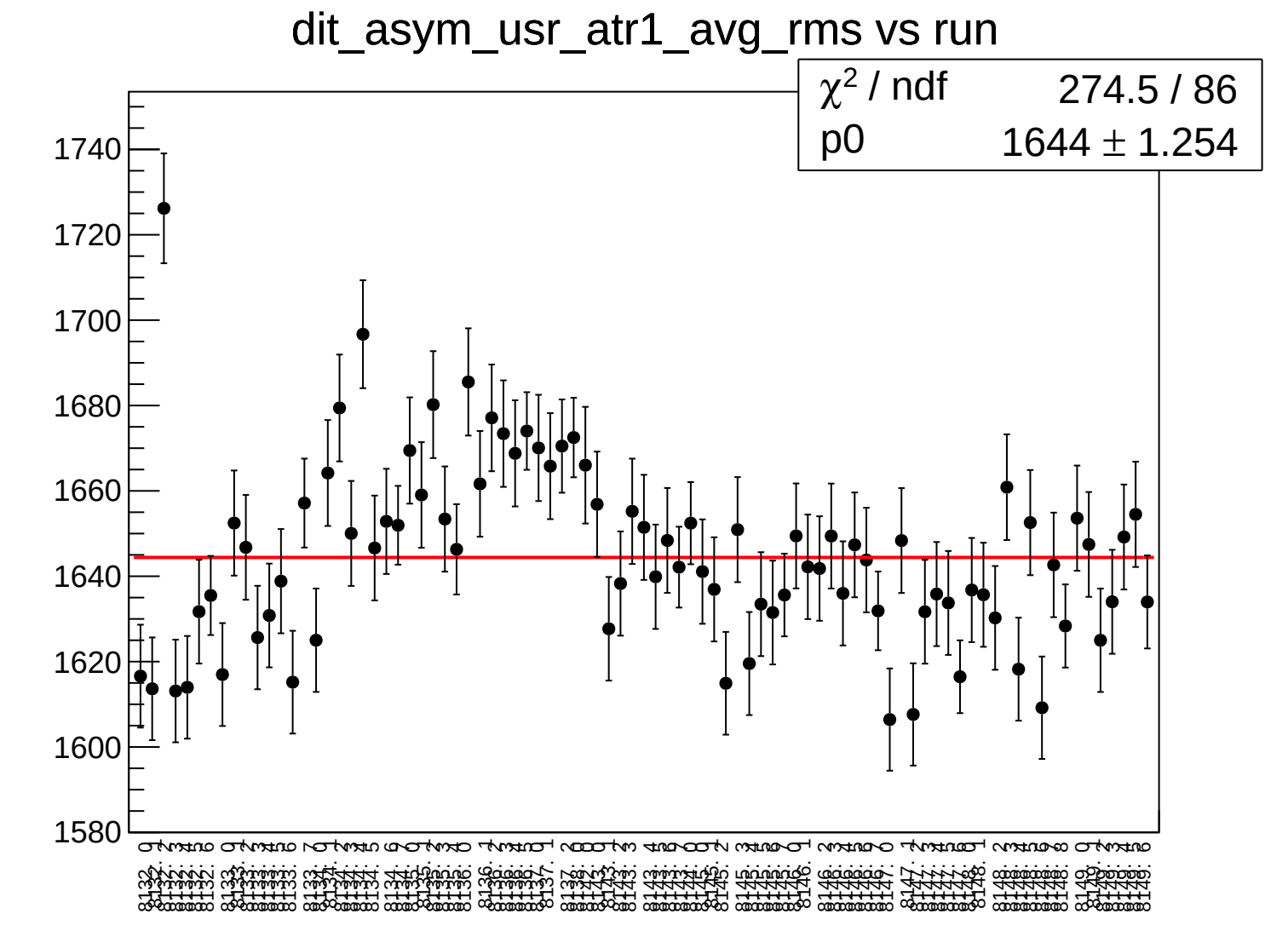

asym_usr_atr1_avg_eigen_cor_correction_mean vs run
χ² / ndf 92.6 / 86
p0 1164 ± 1490
pull
Entries 87
Mean 117.3
Std Dev 0

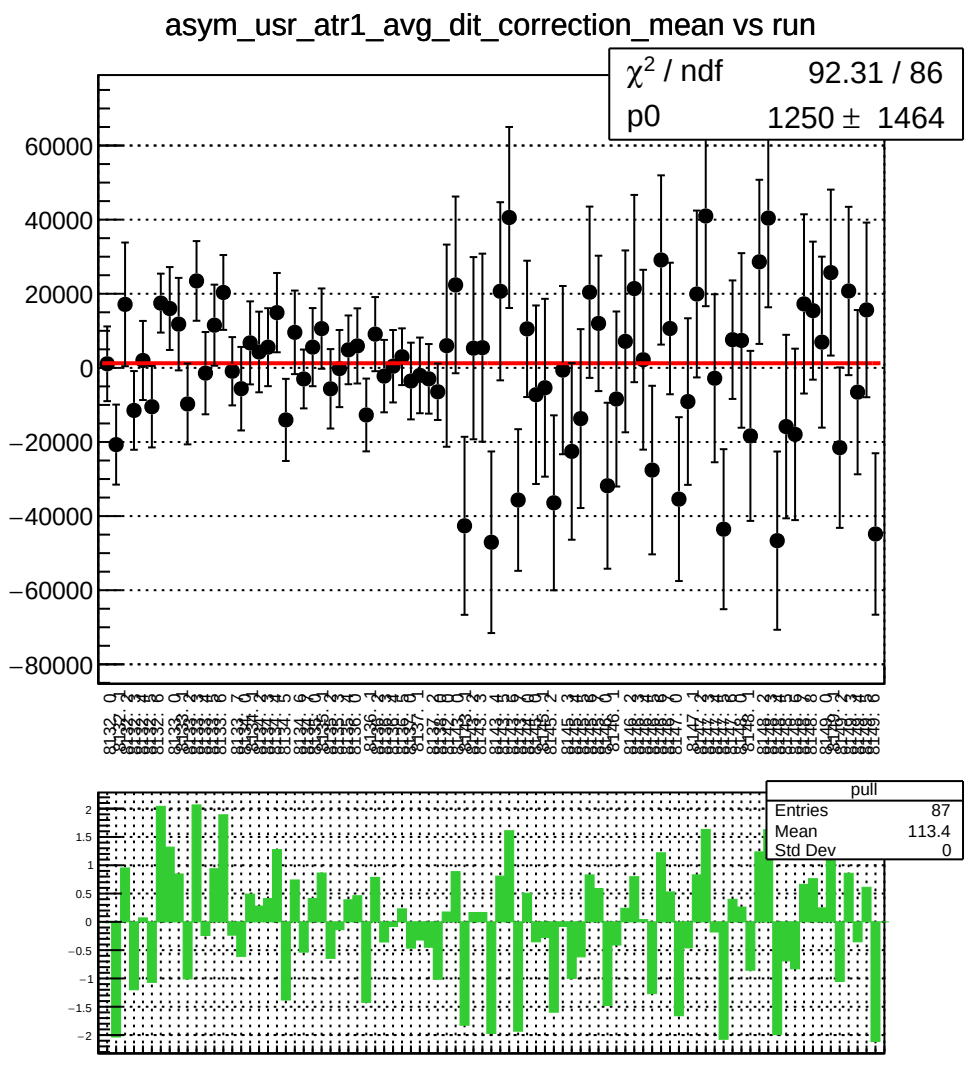

pull1D
Entries 87
Mean −0.03247
Std Dev 1.031

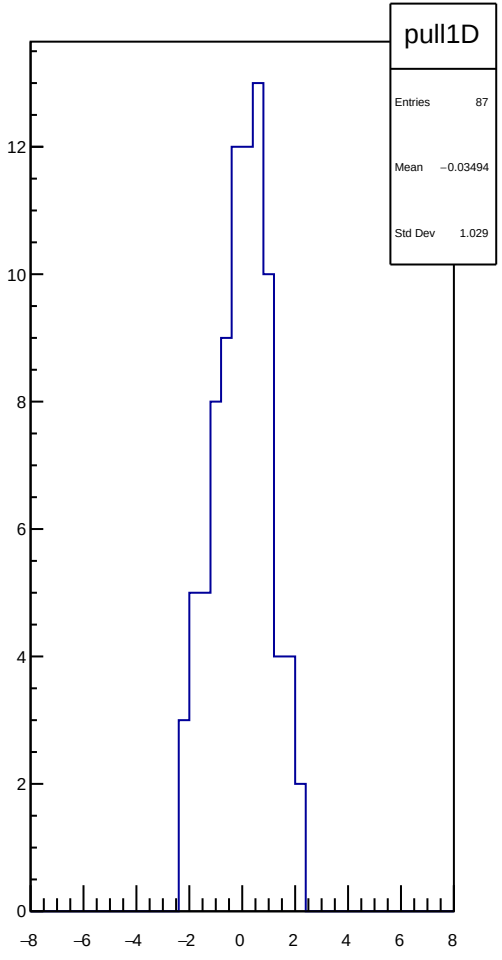

asym_usr_atr1_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.356e+05 / 86
p0 1283 ± 1.053
2600
2400
2200
2000
1800
1600
1400
1200
1000
800

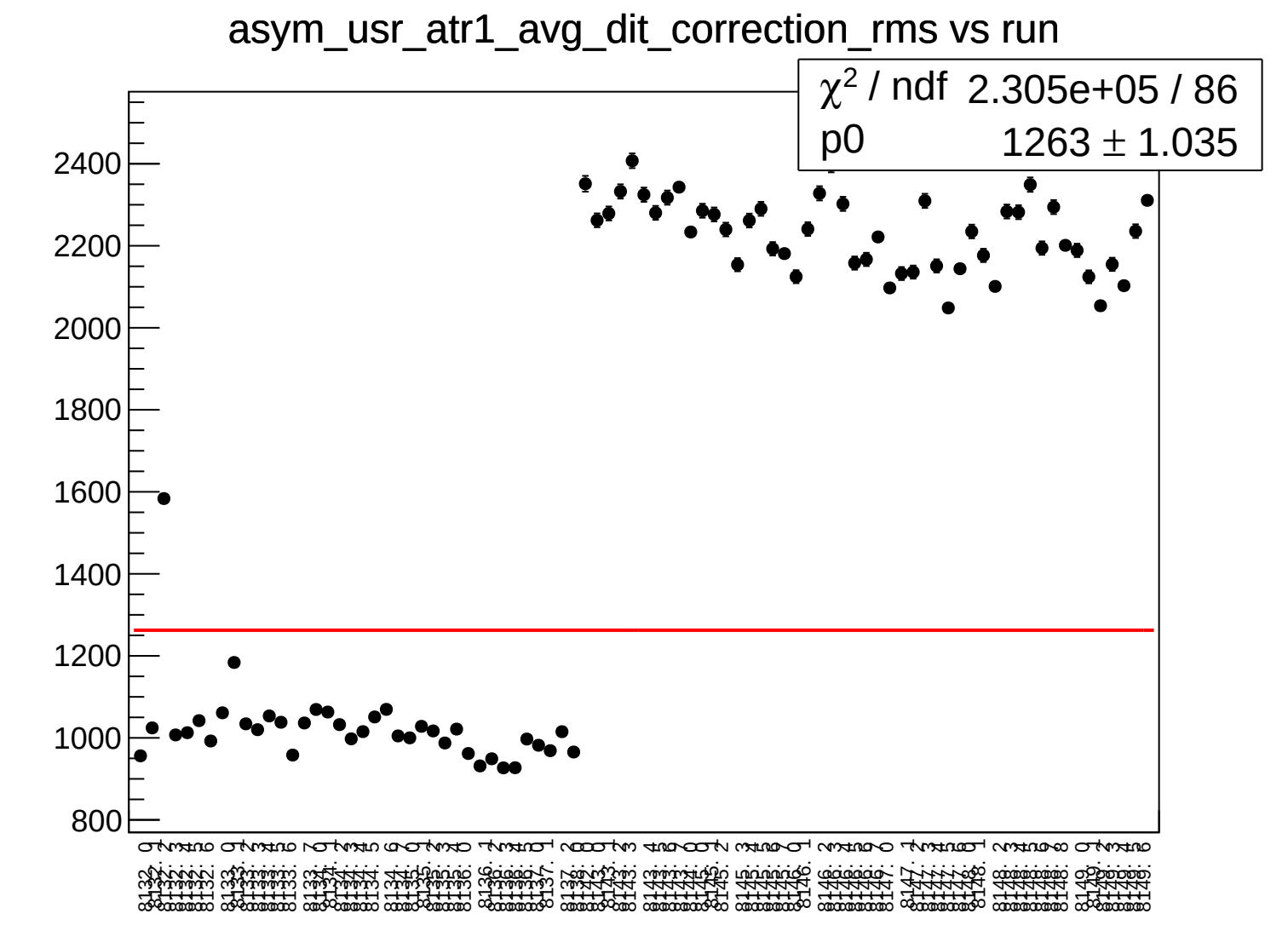

dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 73.09 / 86
p0 2179 ± 1774
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 136.6
Std Dev 0
2
1
0
−1
−2

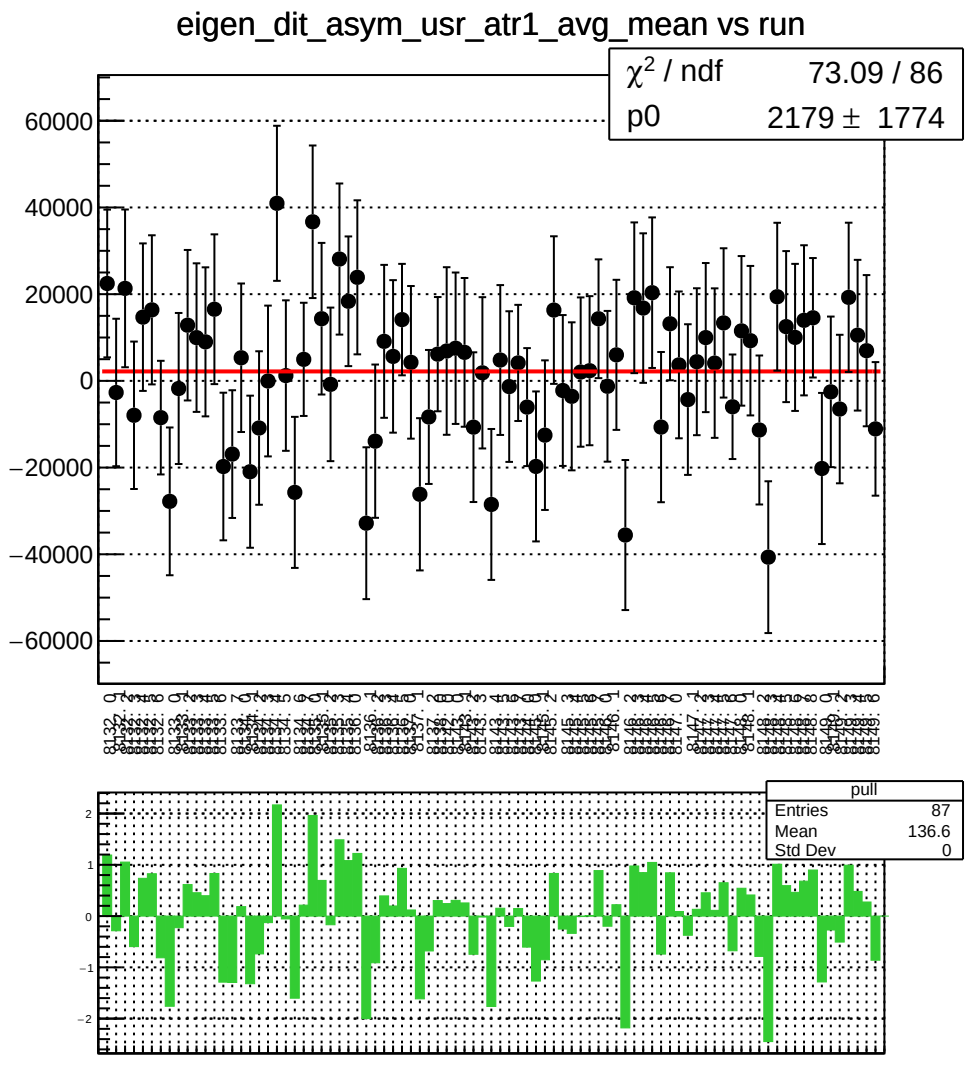

pull1D
Entries 87
Mean −0.002756
Std Dev 0.9166
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

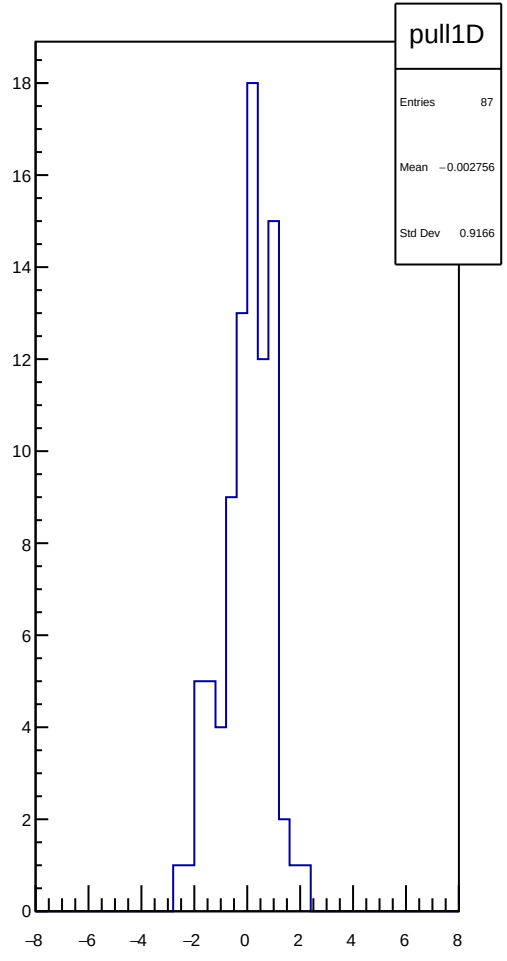

dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 274.5 / 86
p0 1644 ± 1.254
1740
1720
1700
1680
1660
1640
1620
1600
1580

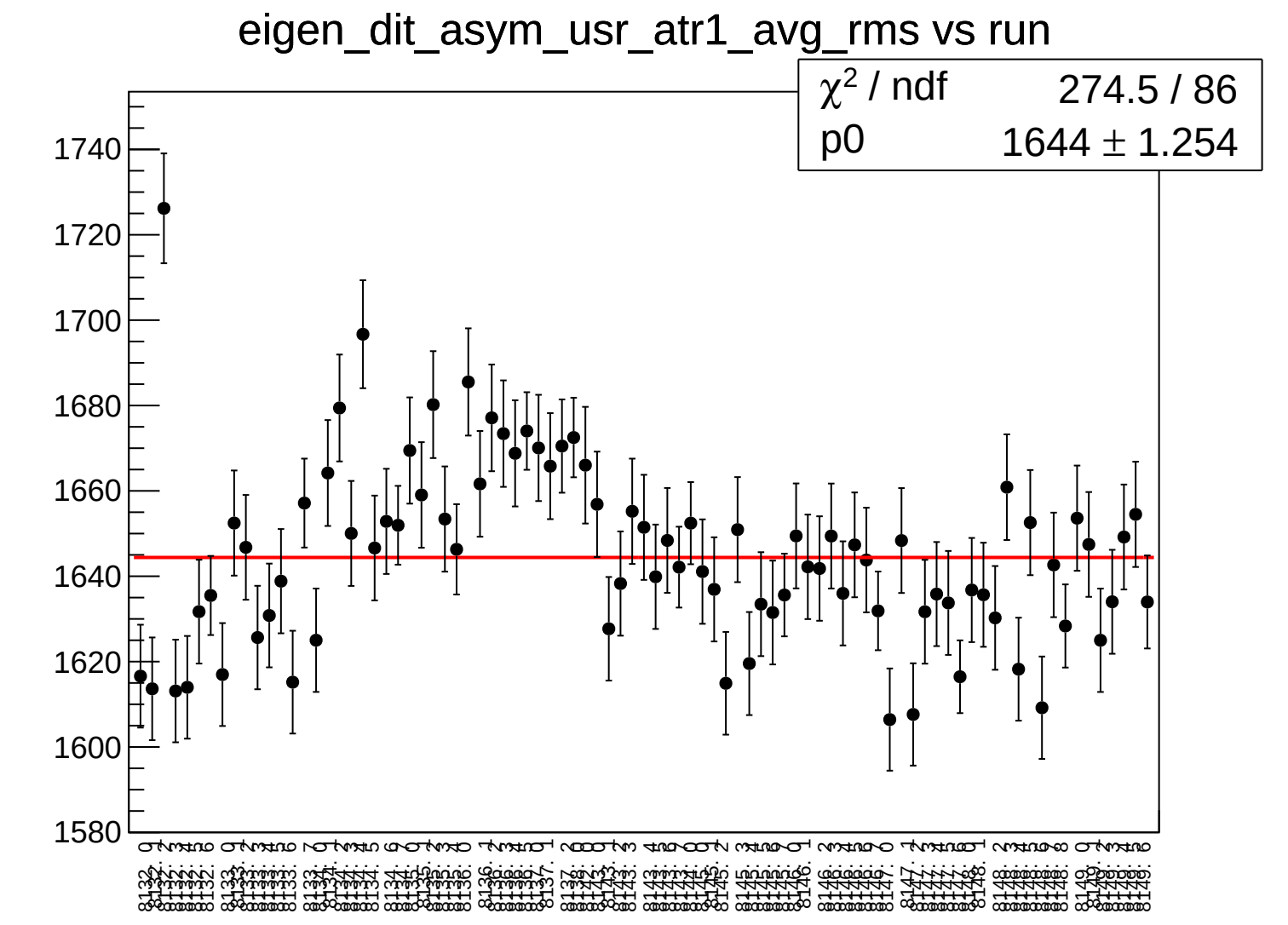

asym_usr_atr1_avg_dit_correction_mean vs run
χ² / ndf 92.31 / 86
p0 1250 ± 1464
pull
Entries 87
Mean 113.4
Std Dev 0

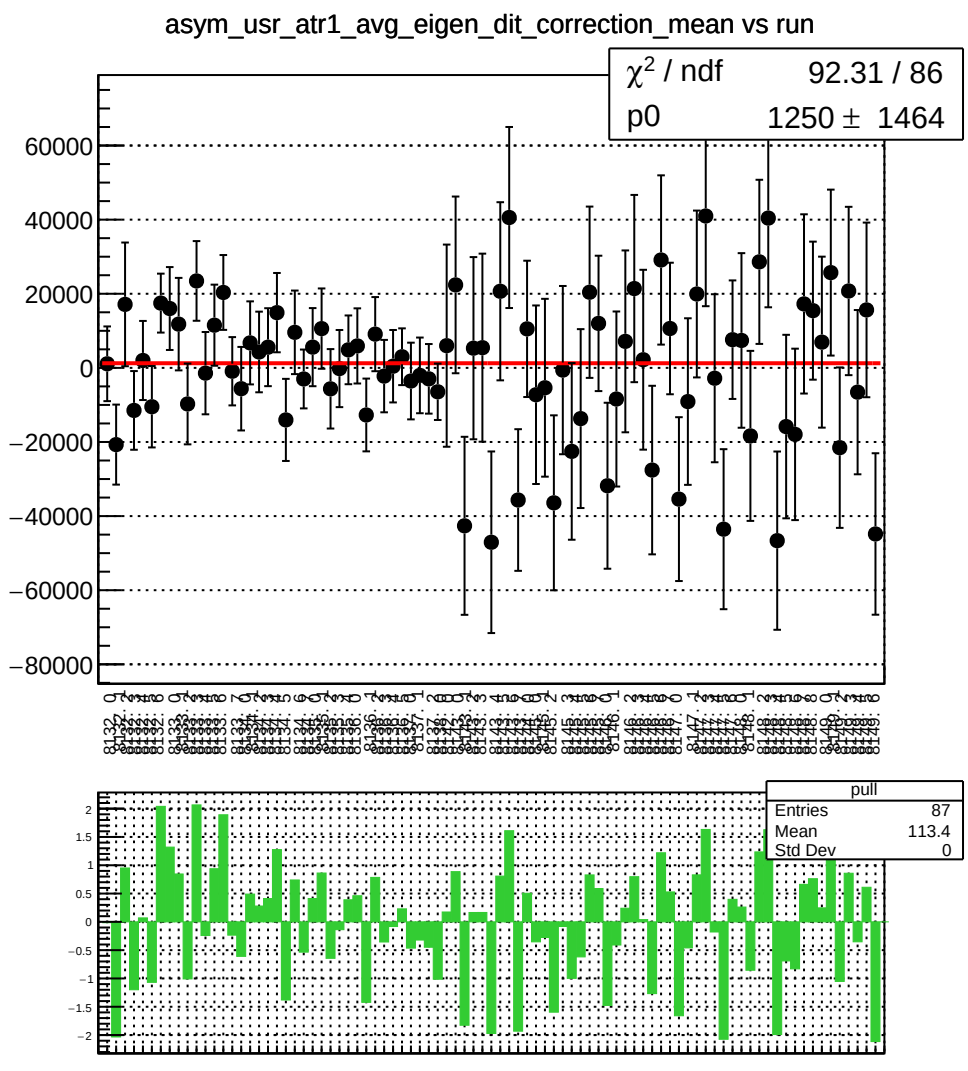

pull1D
Entries 87
Mean −0.03494
Std Dev 1.029

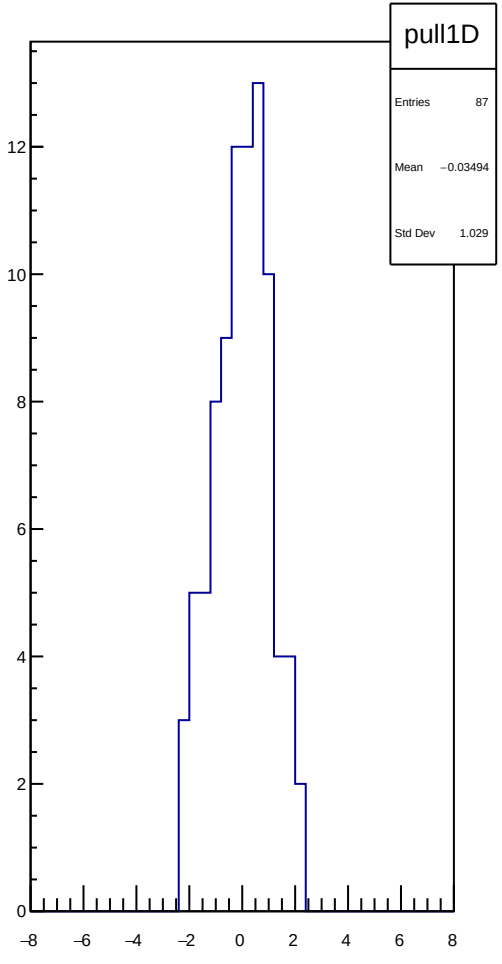

asym_usr_atr1_avg_dit_correction_rms vs run
χ² / ndf 2.305e+05 / 86
p0 1263 ± 1.035
2400
2200
2000
1800
1600
1400
1200
1000
800

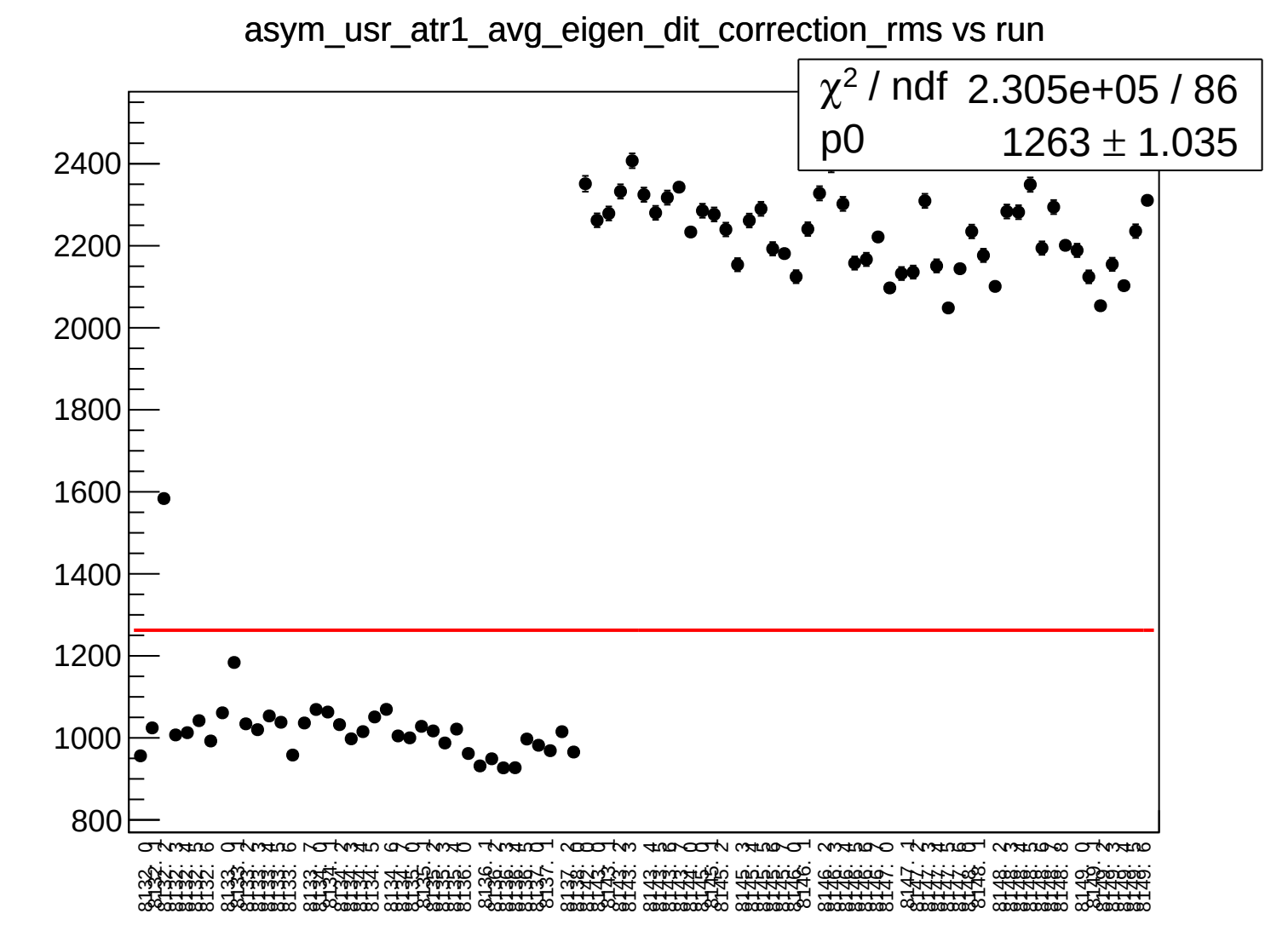

eigen_dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 73.09 / 86
p0 2179 ± 1774
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 136.6
Std Dev 0
2
1
0
−1
−2

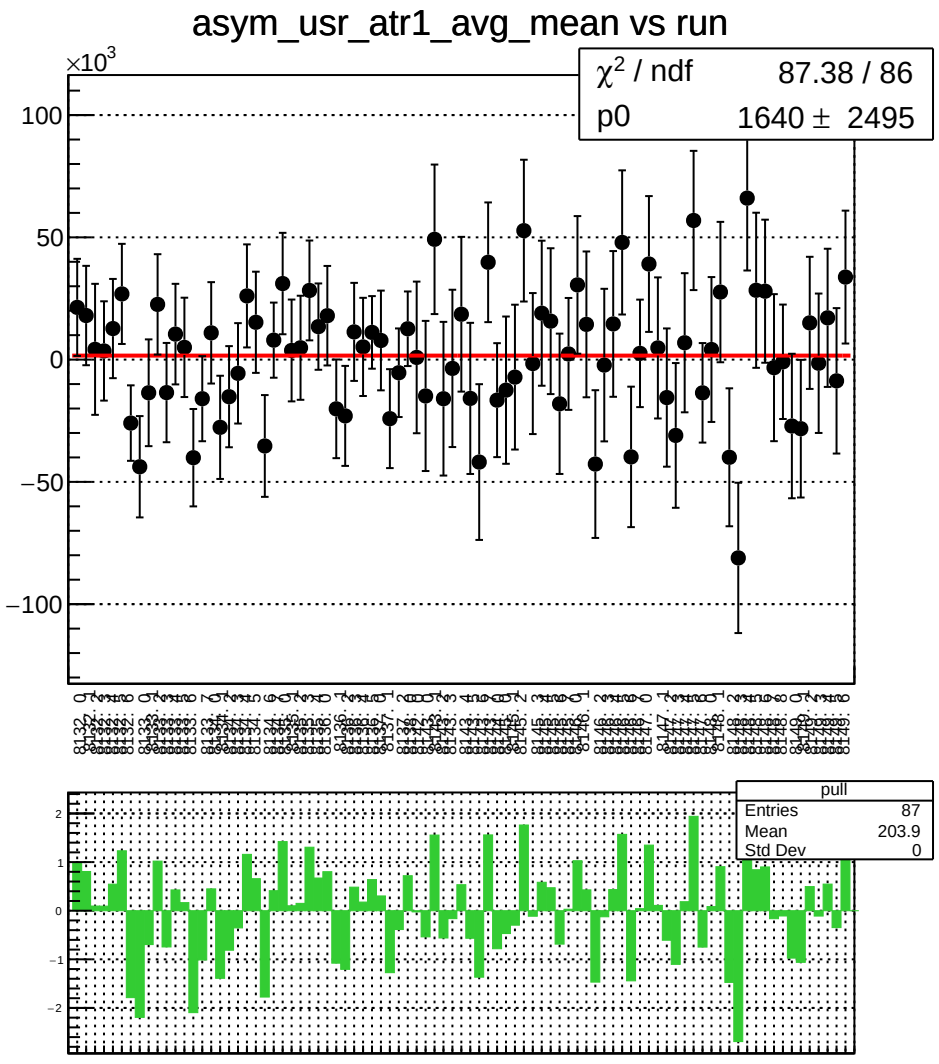

pull1D
Entries 87
Mean −0.002756
Std Dev 0.9166
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

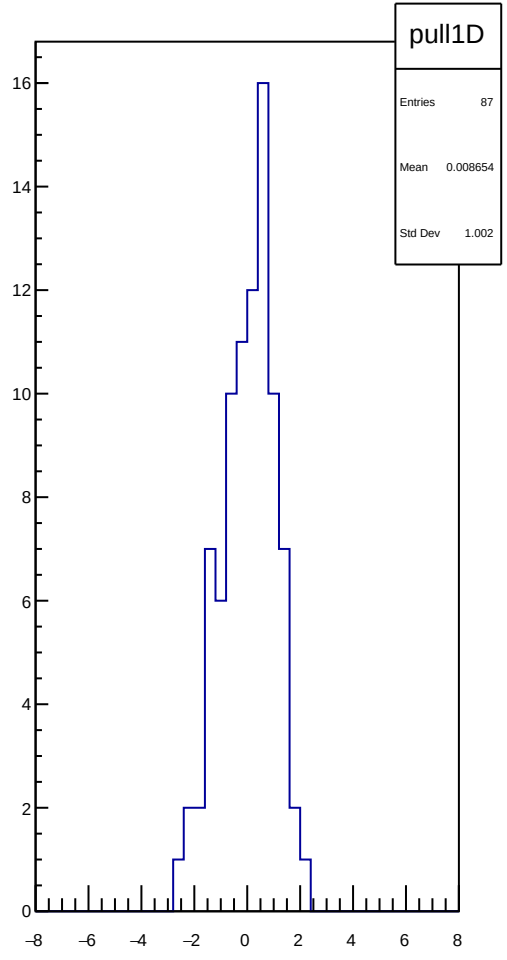

eigen_dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 274.5 / 86
p0 1644 ± 1.254
1740
1720
1700
1680
1660
1640
1620
1600
1580

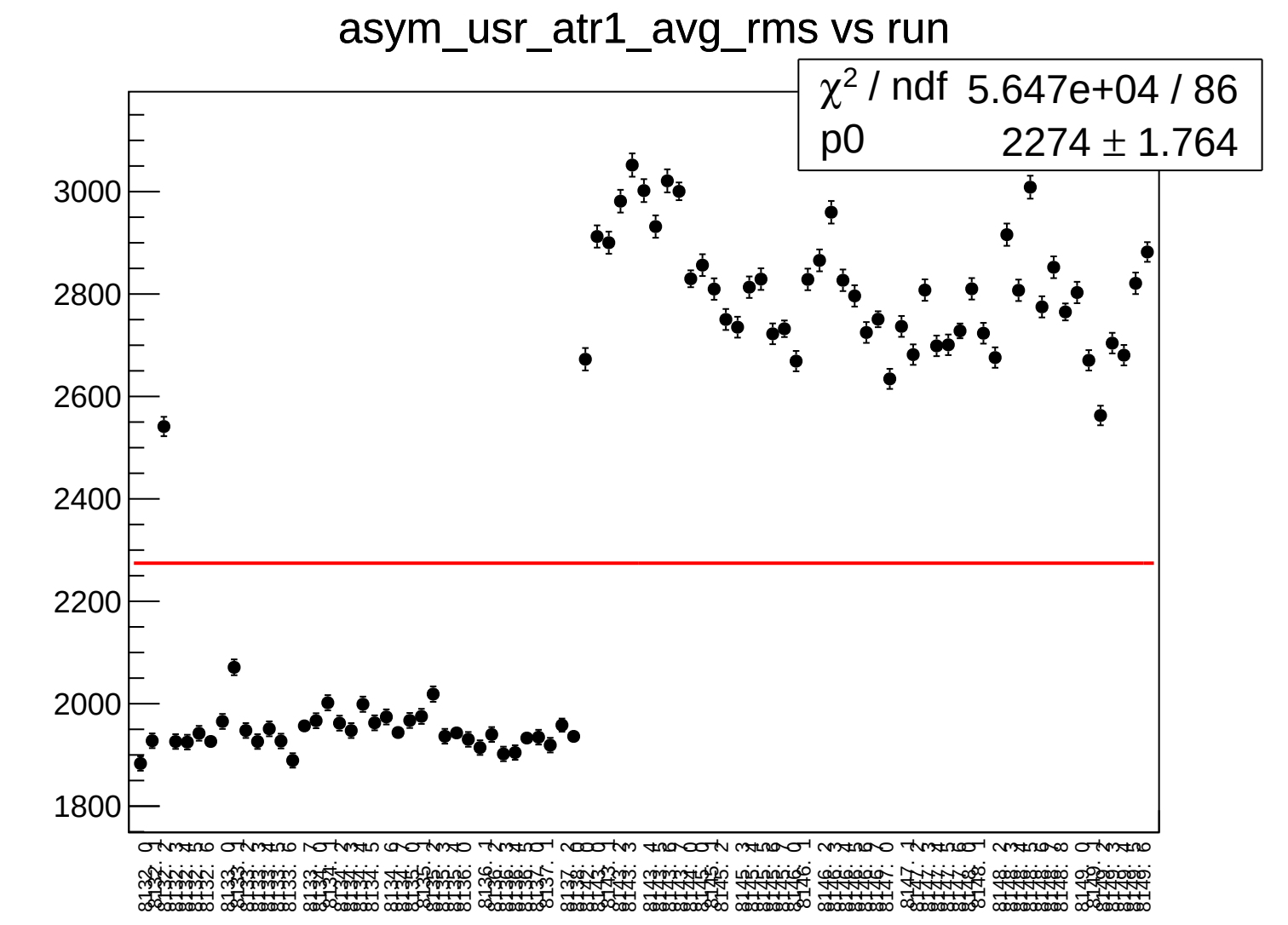

asym_usr_atr1_avg_eigen_dit_correction_mean vs run
χ² / ndf 92.31 / 86
p0 1250 ± 1464
pull
Entries 87
Mean 113.4
Std Dev 0

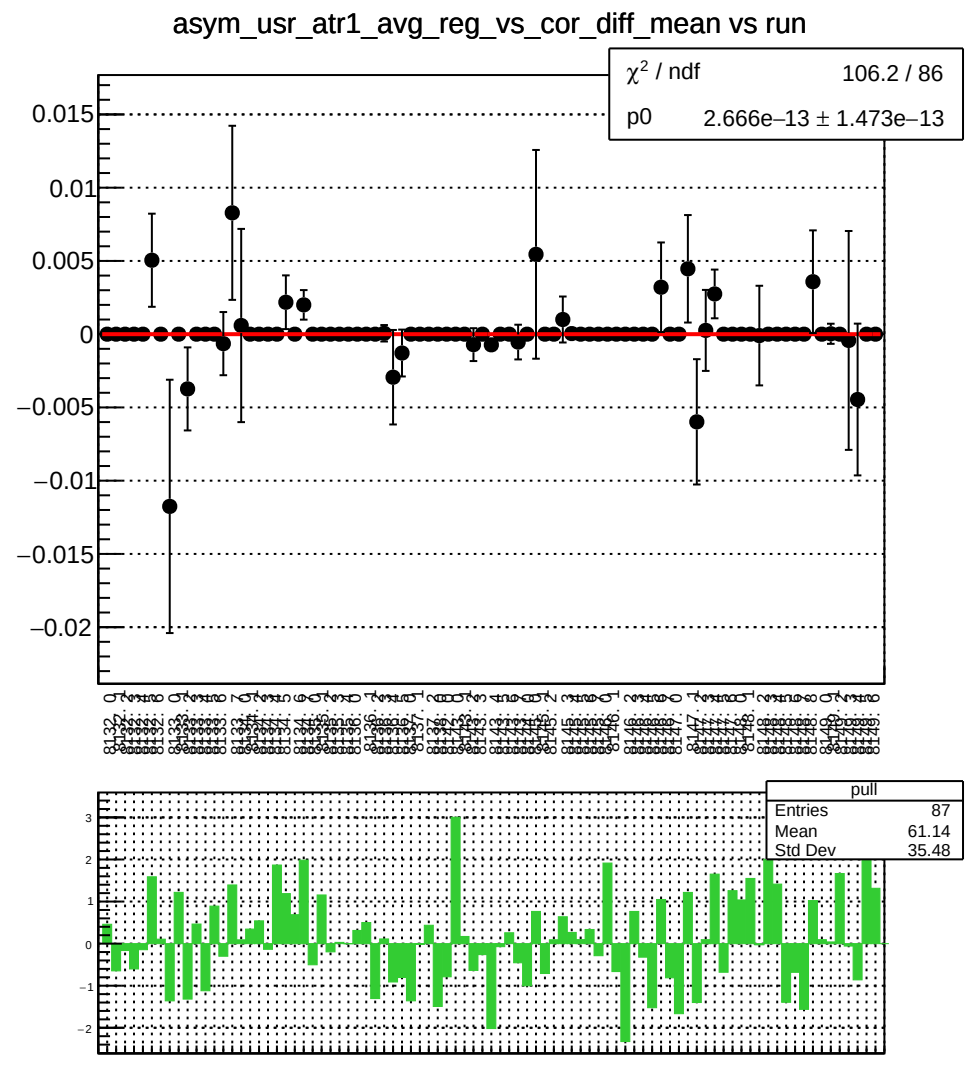

pull1D
Entries 87
Mean −0.03494
Std Dev 1.029

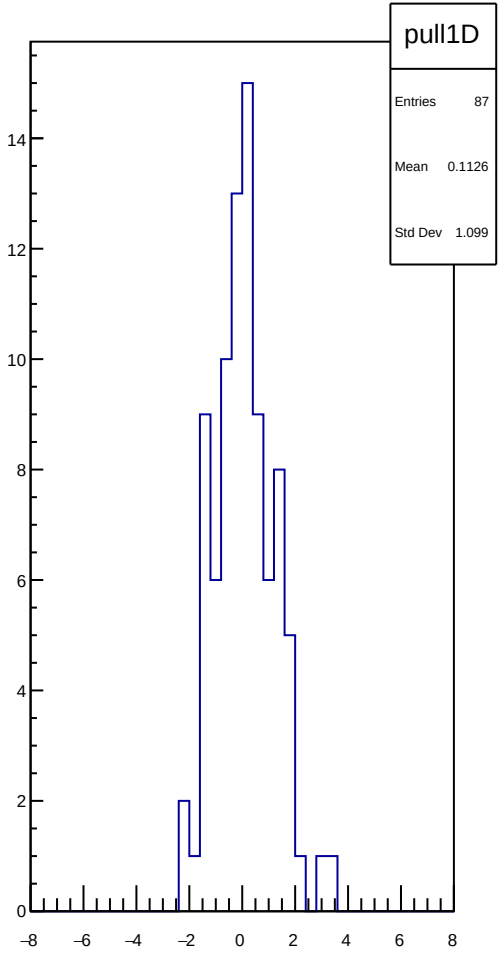

asym_usr_atr1_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.305e+05 / 86
p0 1263 ± 1.035
2400
2200
2000
1800
1600
1400
1200
1000
800

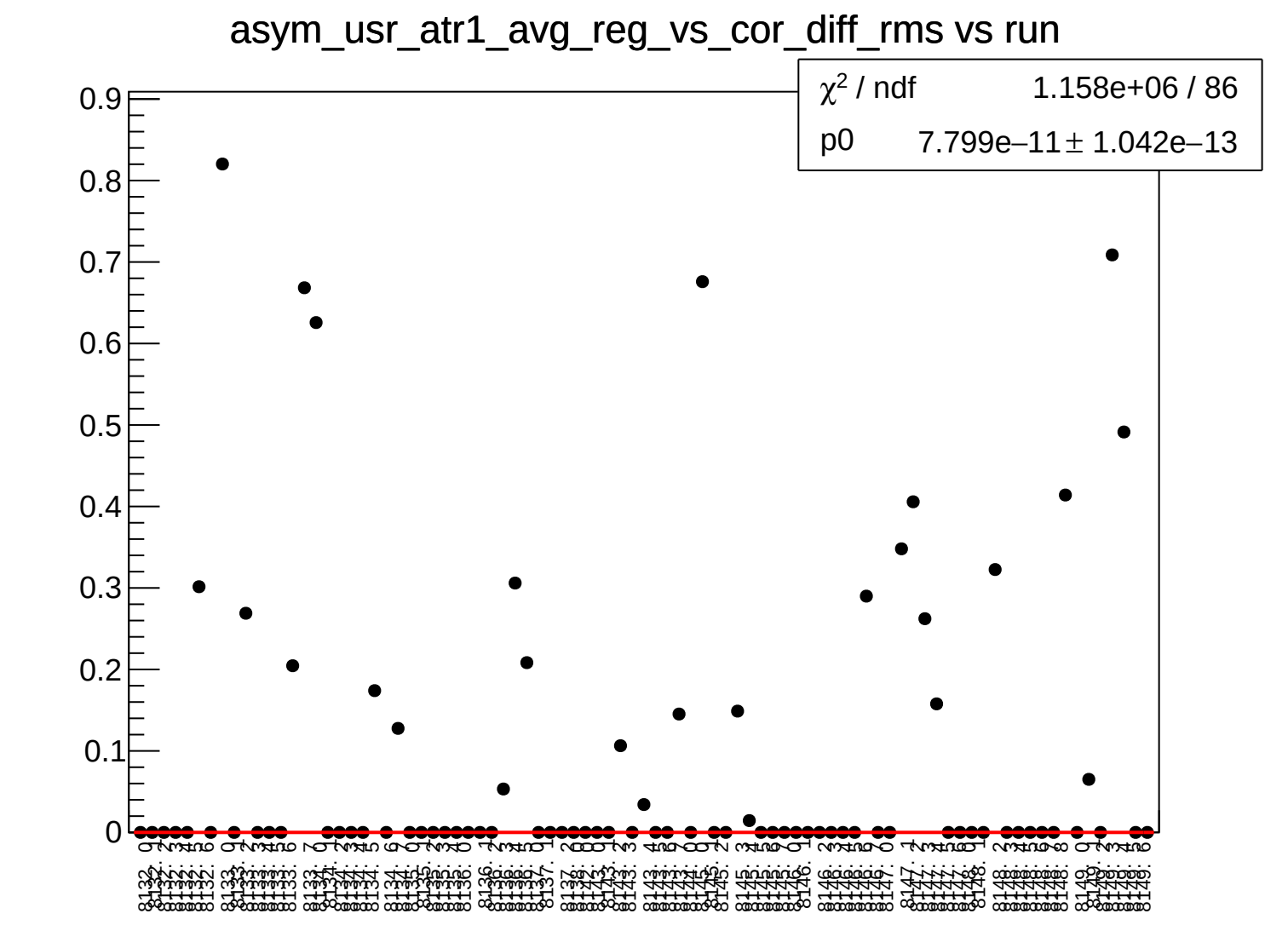

asym_usr_atr1_avg_mean vs run
×10^3
χ² / ndf 87.38 / 86
p0 1640 ± 2495
100
50
0
−50
−100
pull
Entries 87
Mean 203.9
Std Dev 0
2
1
0
−1
−2

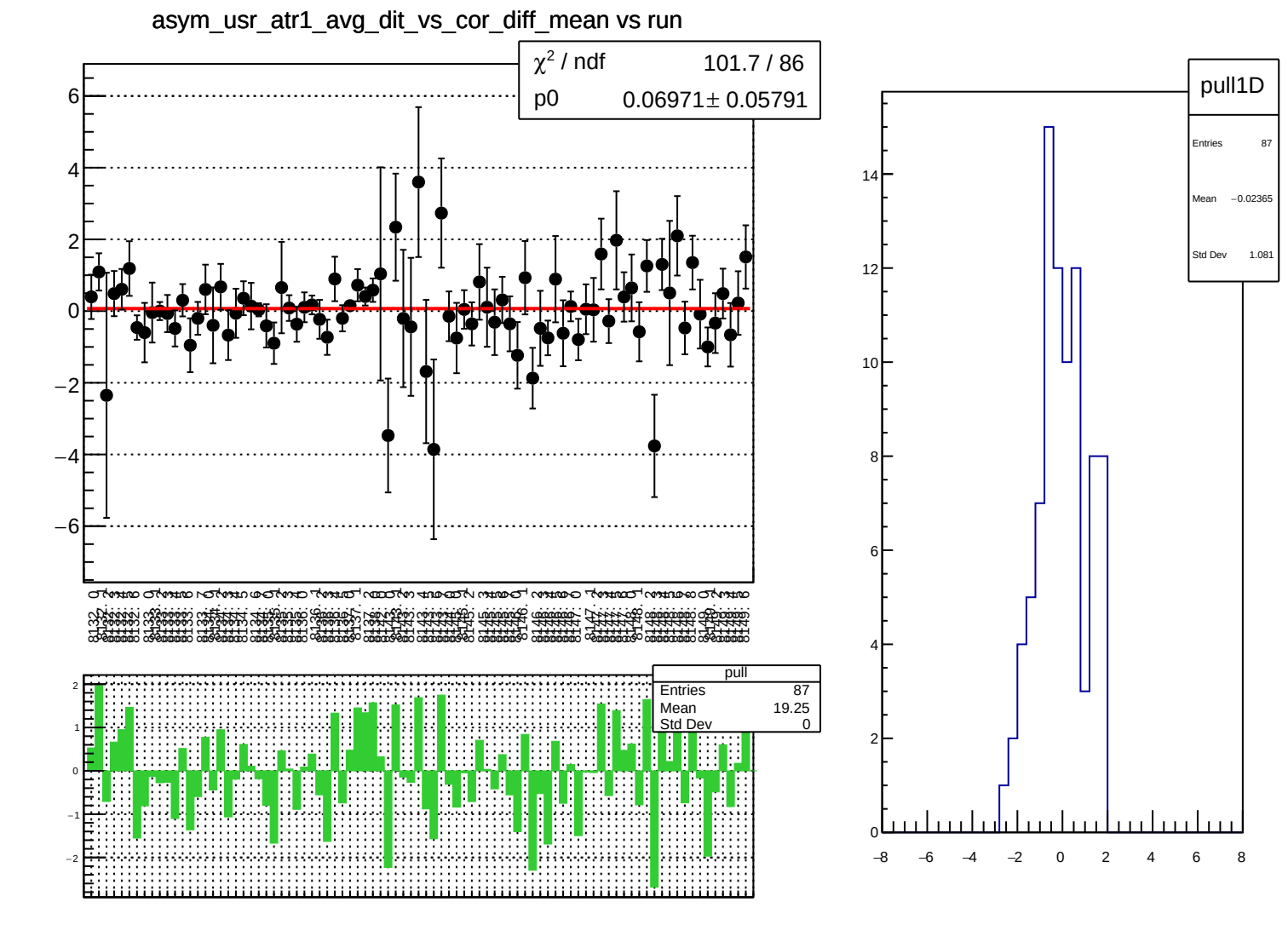

pull1D
Entries 87
Mean 0.008654
Std Dev 1.002
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

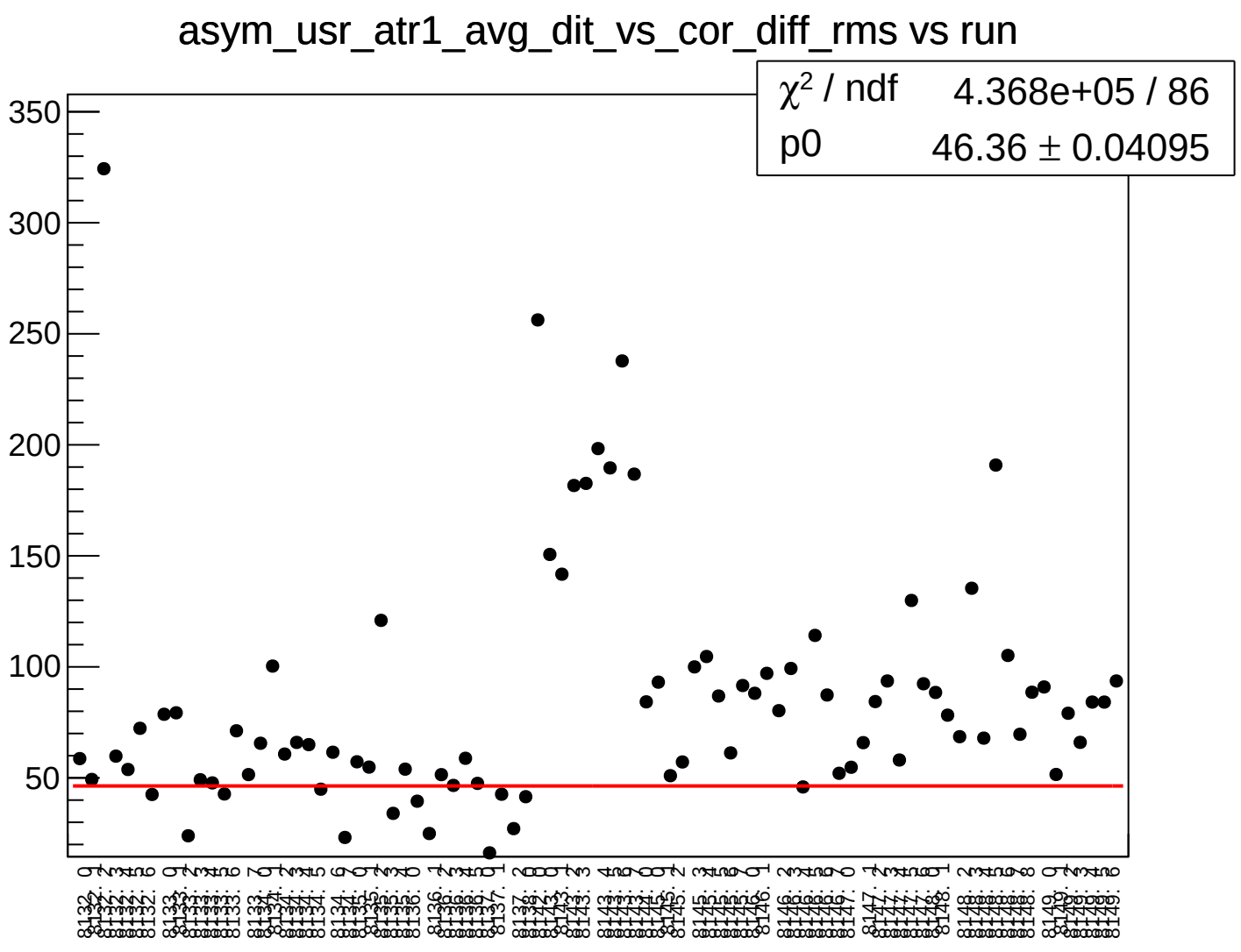

asym_usr_atr1_avg_rms vs run
χ² / ndf 5.647e+04 / 86
p0 2274 ± 1.764
3000
2800
2600
2400
2200
2000
1800

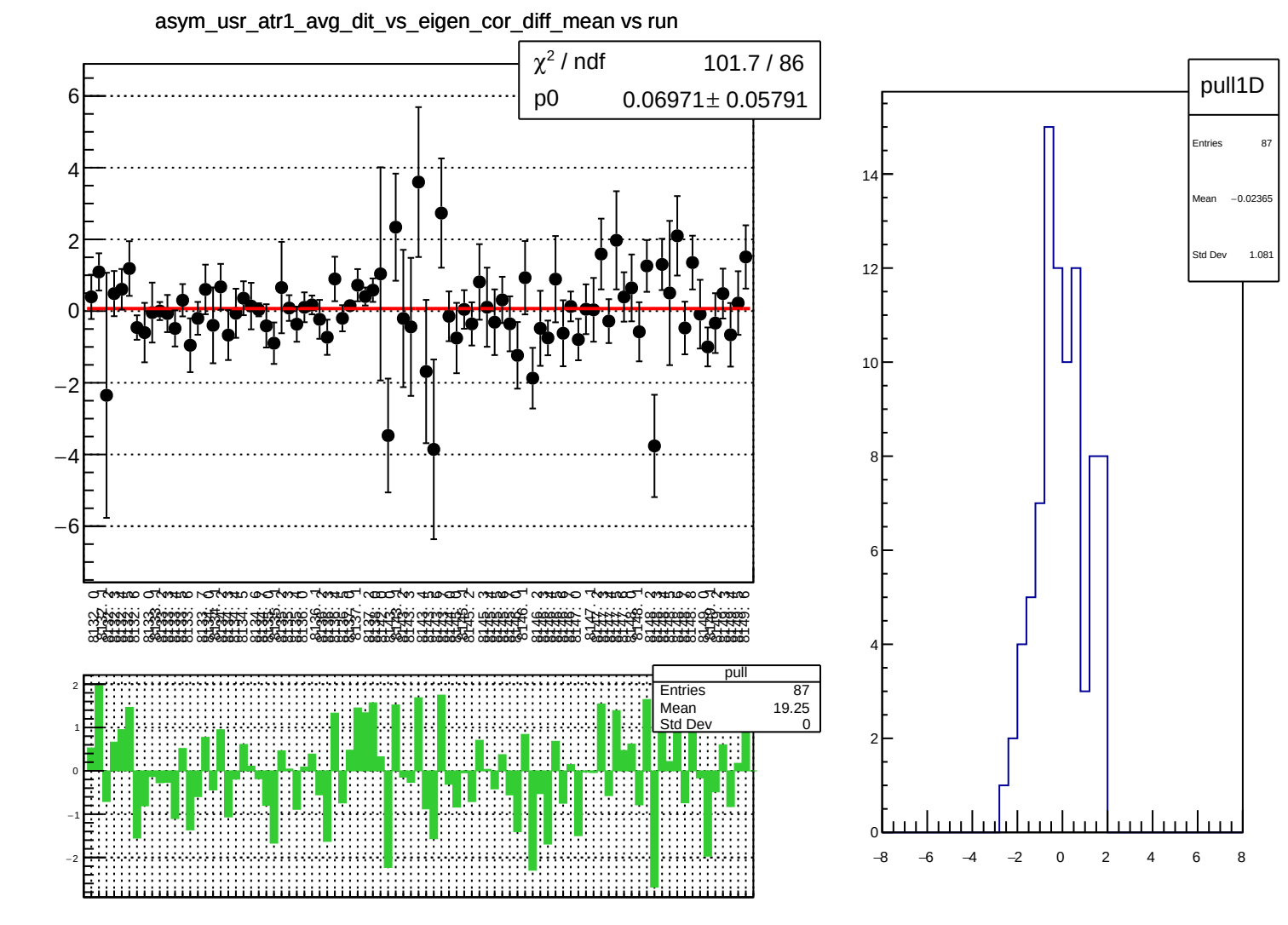

asym_usr_atr1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 106.2 / 86
p0 2.666e−13 ± 1.473e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 87
Mean 61.14
Std Dev 35.48
3
2
1
0
−1
−2

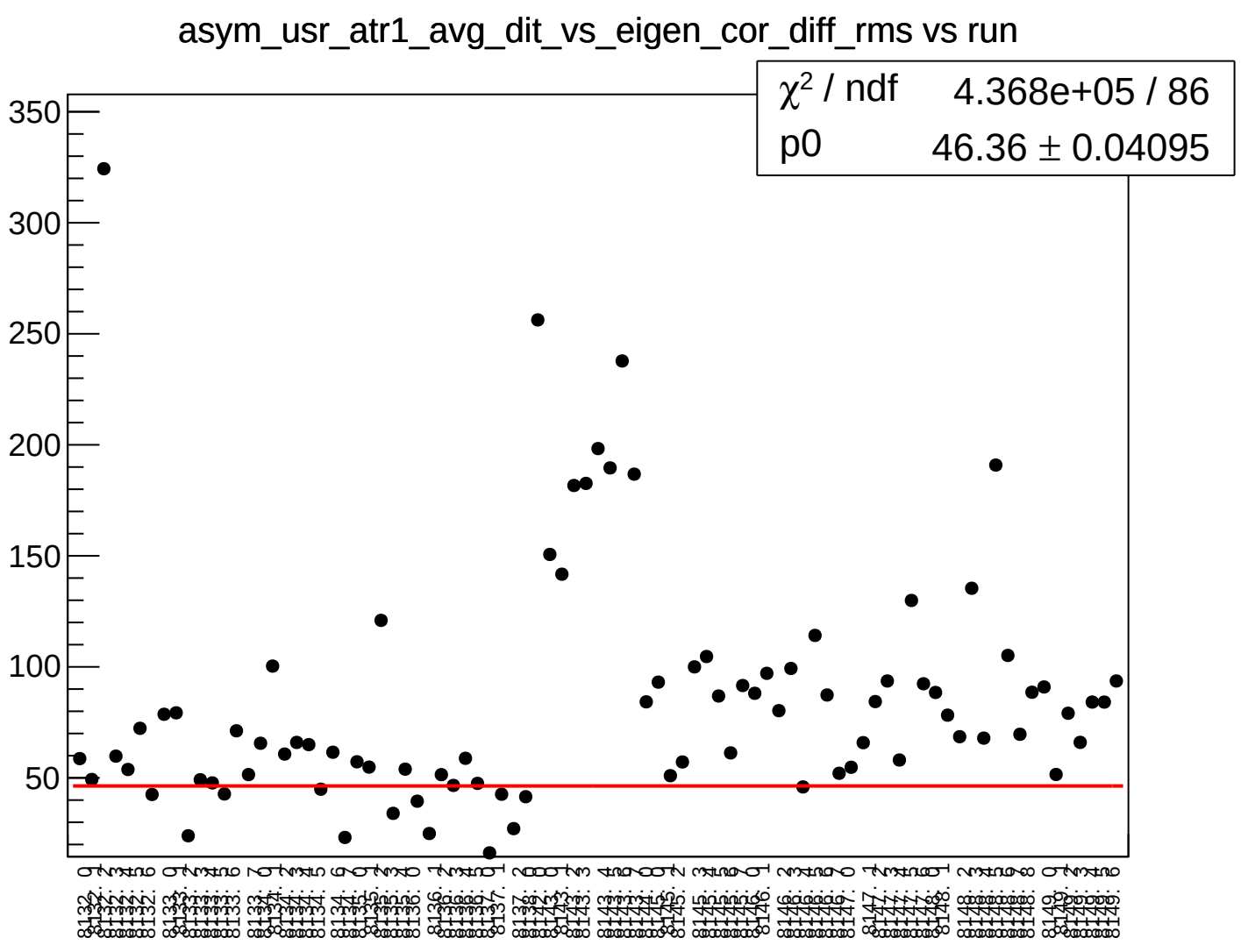

pull1D
Entries 87
Mean 0.1126
Std Dev 1.099
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

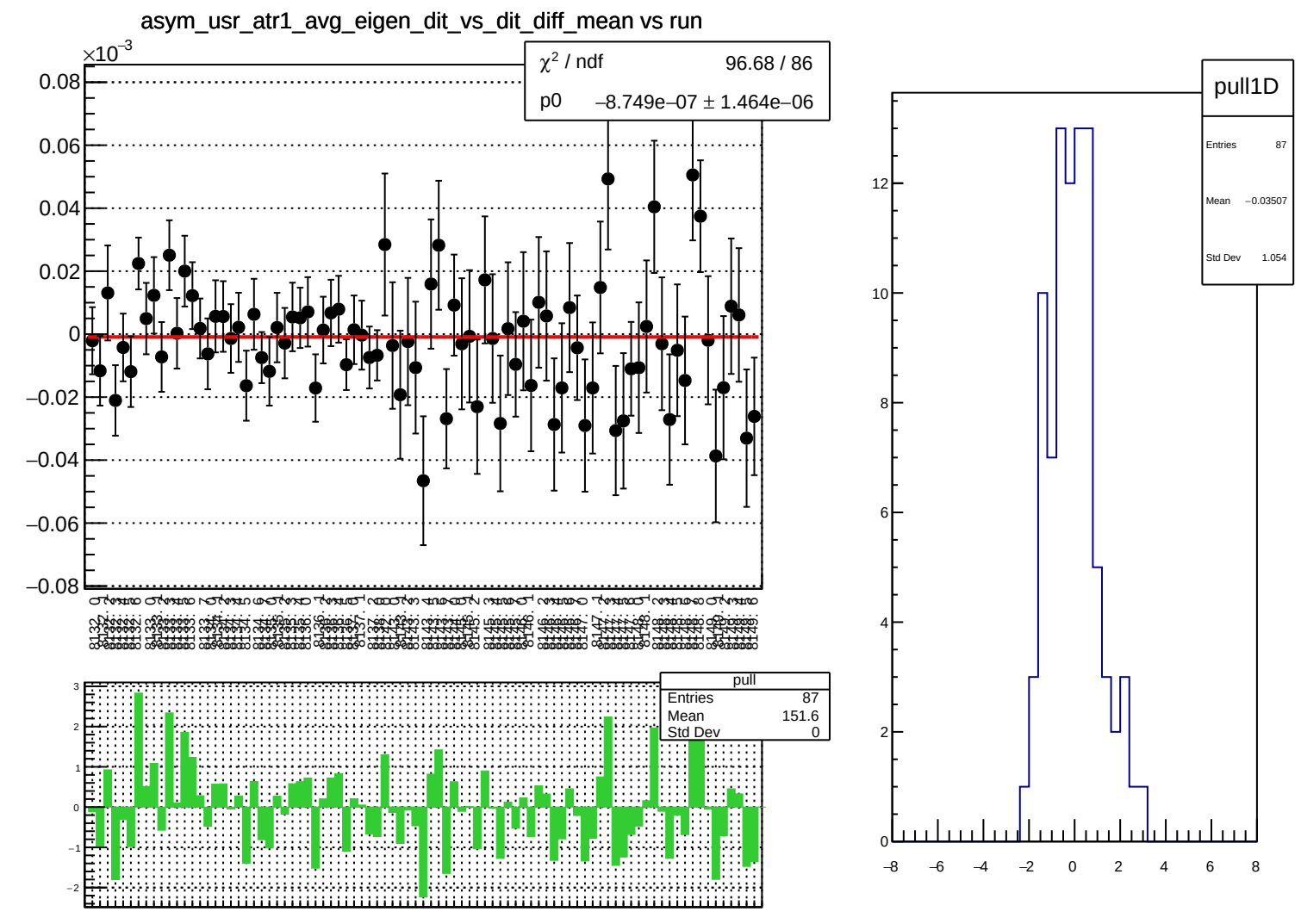

asym_usr_atr1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.158e+06 / 86
p0 7.799e−11 ± 1.042e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

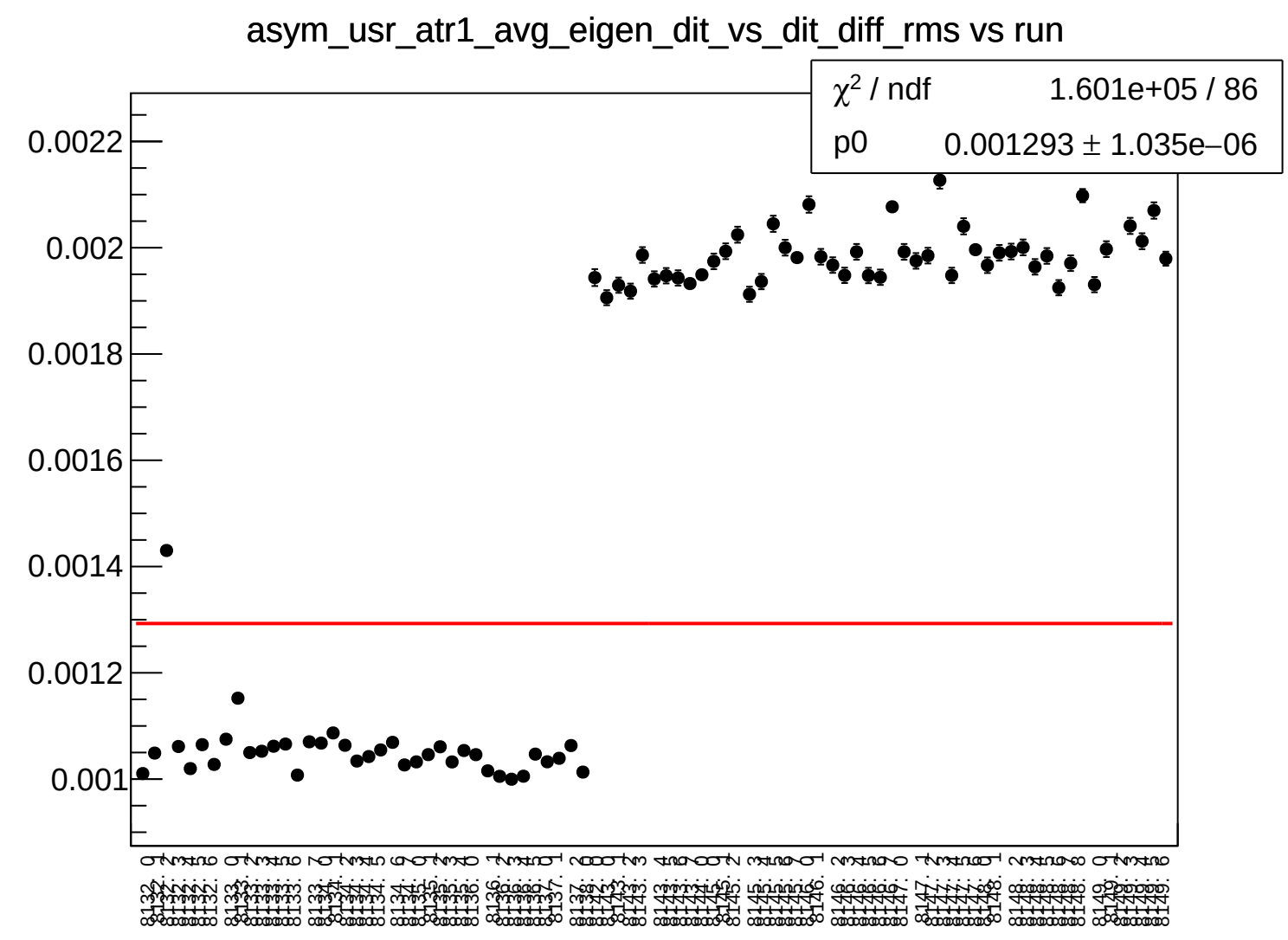

asym_usr_atr1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 101.7 / 86
p0 0.06971 ± 0.05791
pull
Entries 87
Mean 19.25
Std Dev 0
pull1D
Entries 87
Mean −0.02365
Std Dev 1.081

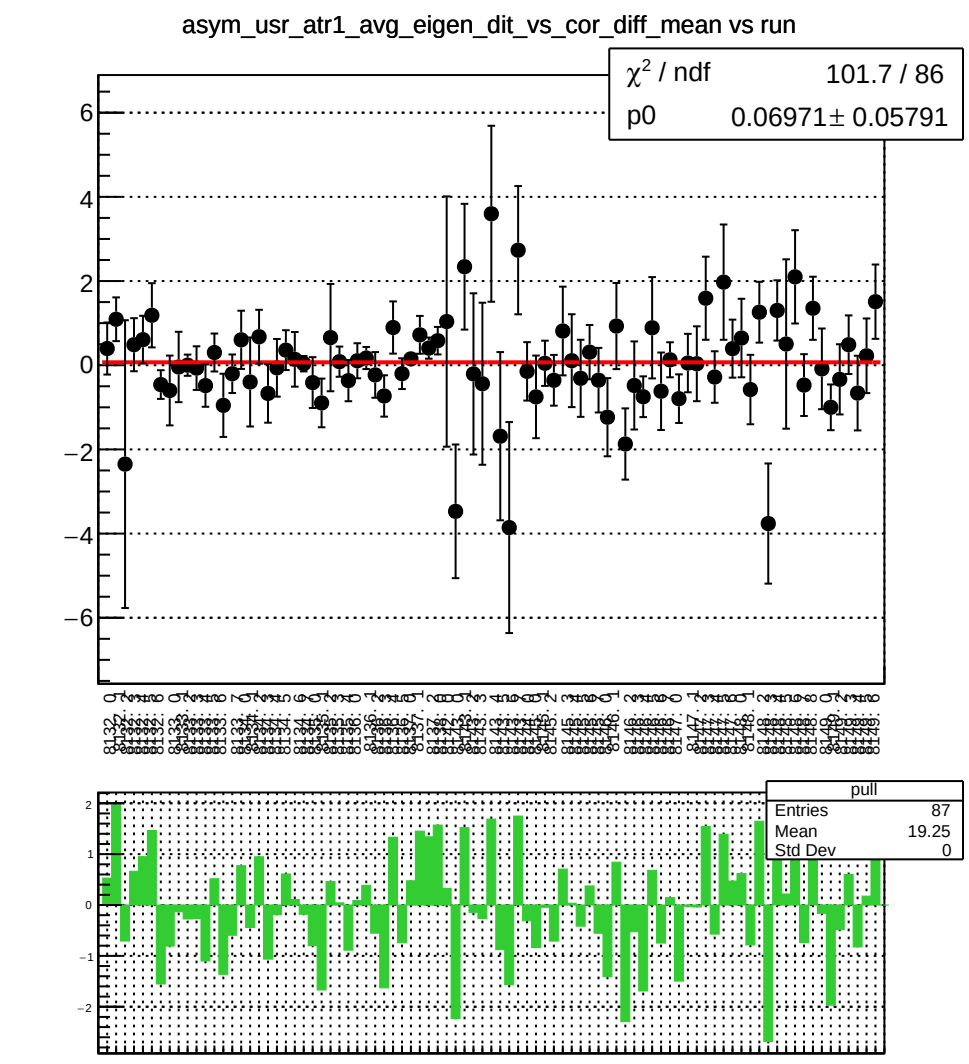

asym_usr_atr1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.368e+05 / 86
p0 46.36 ± 0.04095
350
300
250
200
150
100
50

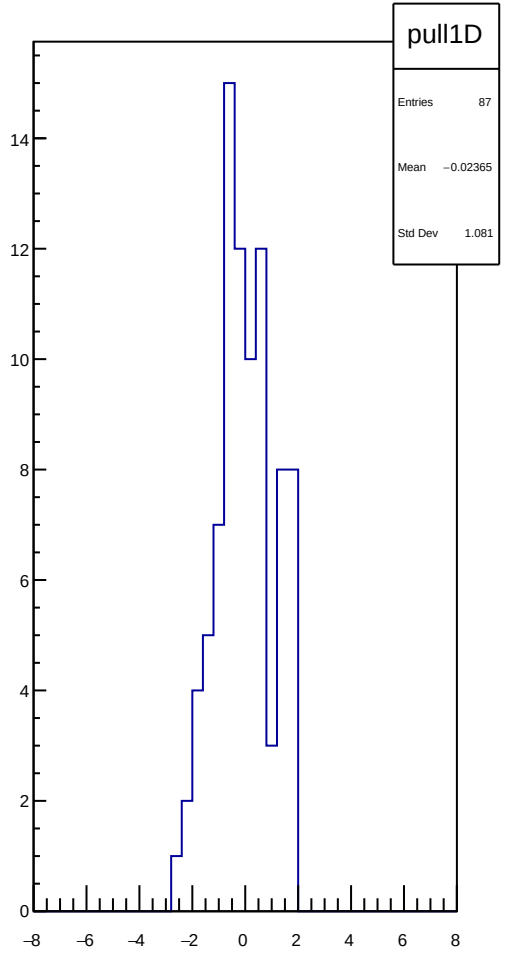

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.7 / 86
p0 0.06971 ± 0.05791
pull
Entries 87
Mean 19.25
Std Dev 0
pull1D
Entries 87
Mean −0.02365
Std Dev 1.081

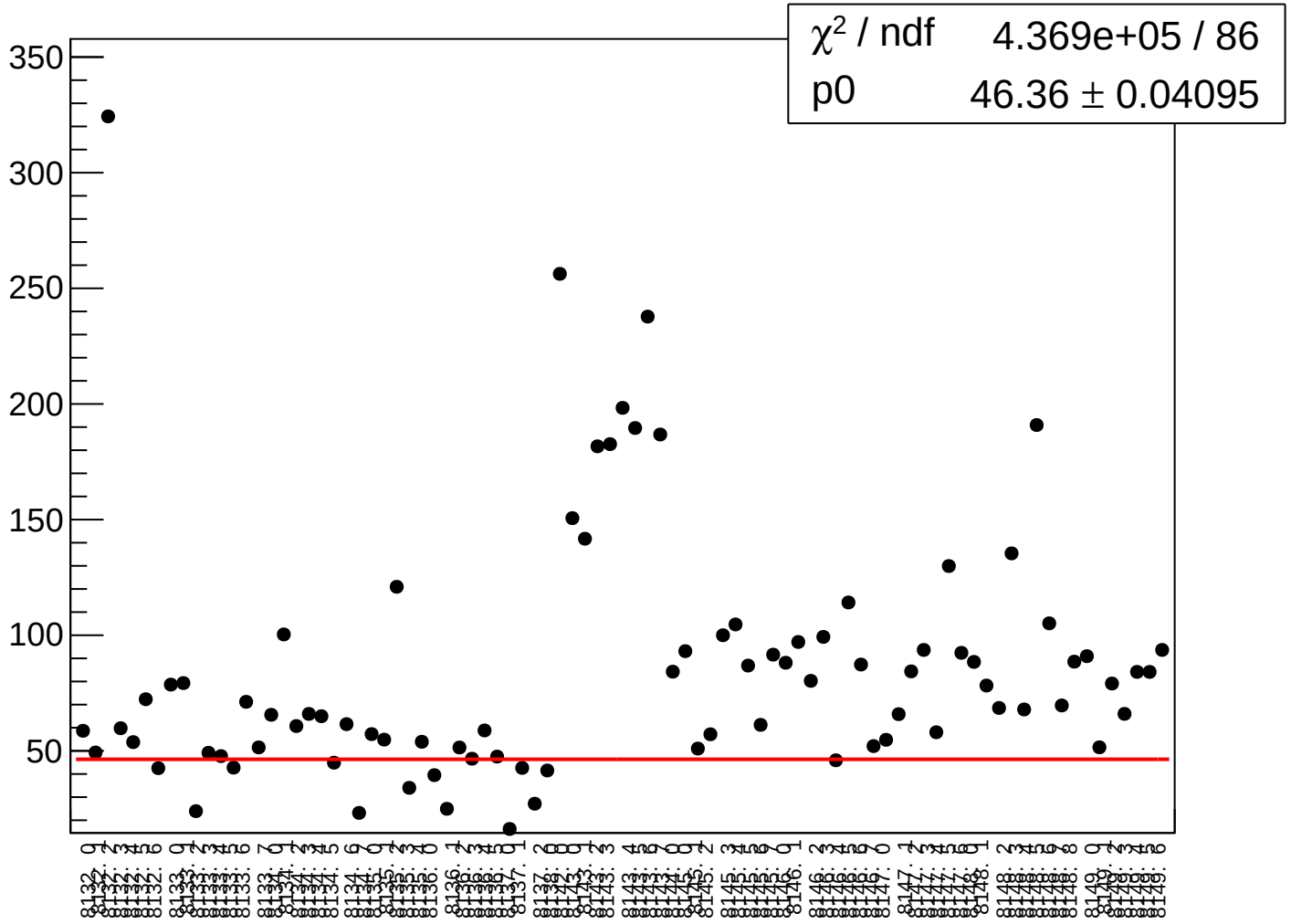

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.368e+05 / 86
p0 46.36 ± 0.04095
350
300
250
200
150
100
50

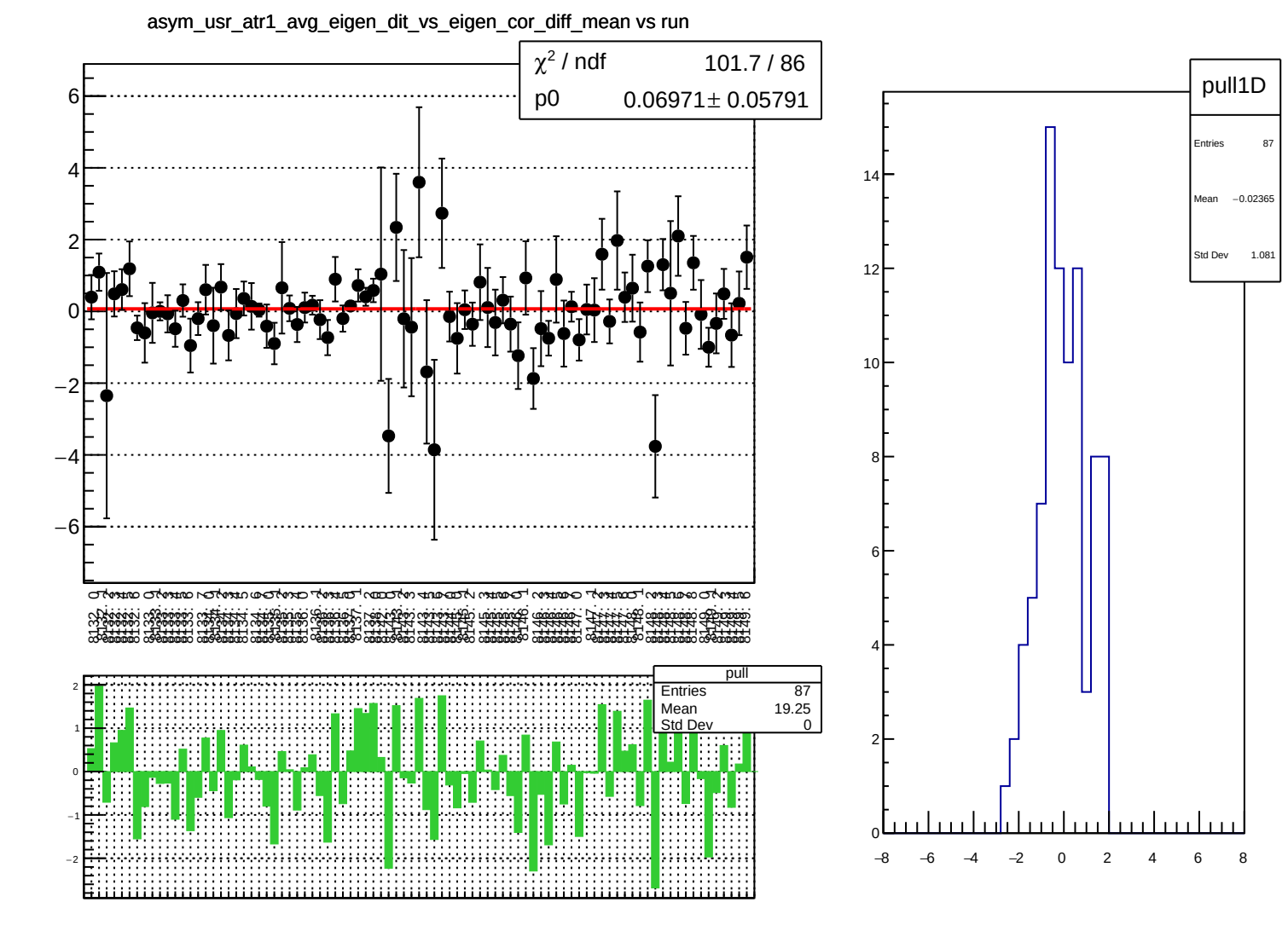

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 96.68 / 86
p0 −8.749e−07 ± 1.464e−06
pull
Entries 87
Mean 151.6
Std Dev 0
pull1D
Entries 87
Mean −0.03507
Std Dev 1.054

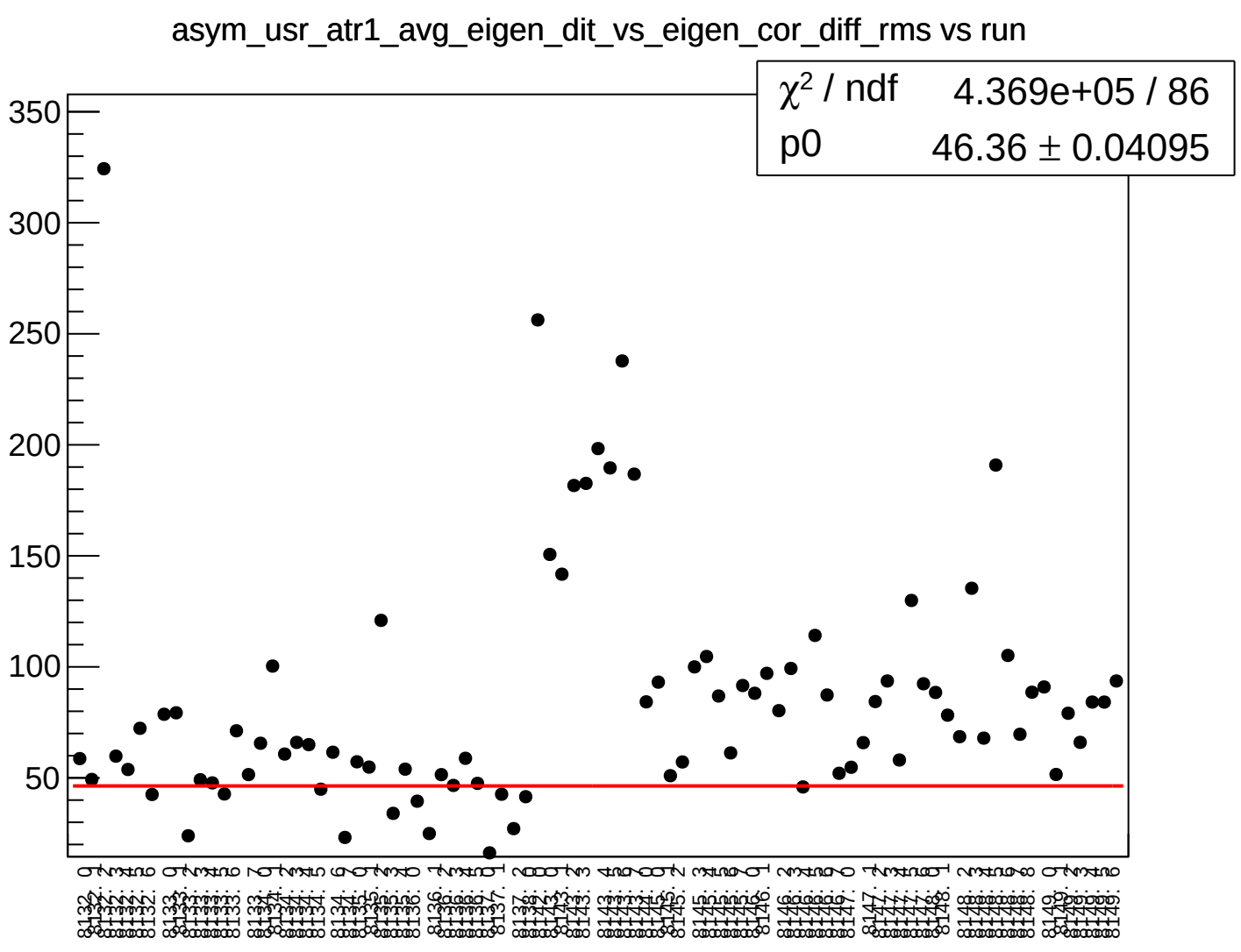

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.601e+05 / 86
p0 0.001293 ± 1.035e−06
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001

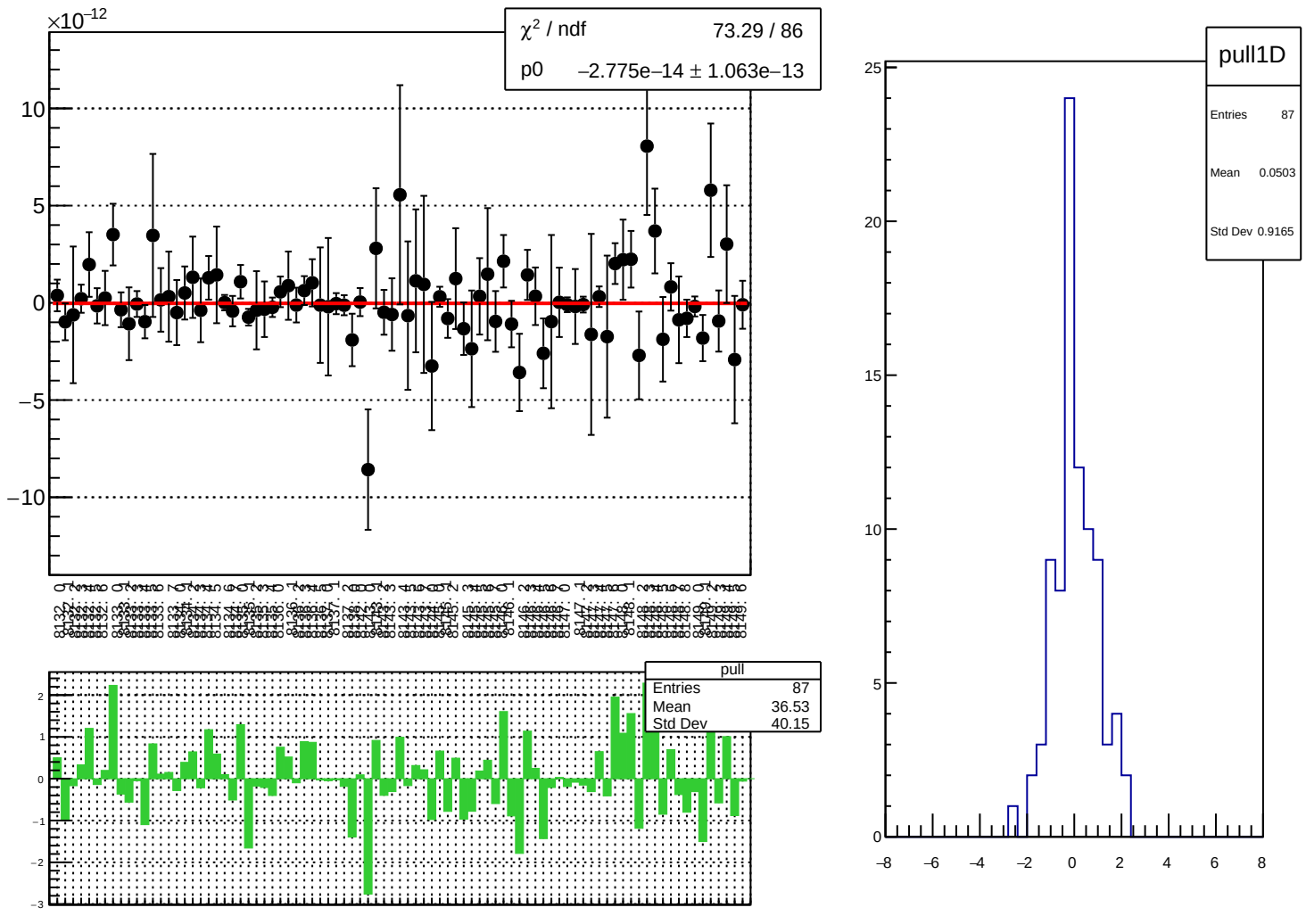

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 101.7 / 86
p0 0.06971 ± 0.05791
pull
Entries 87
Mean 19.25
Std Dev 0

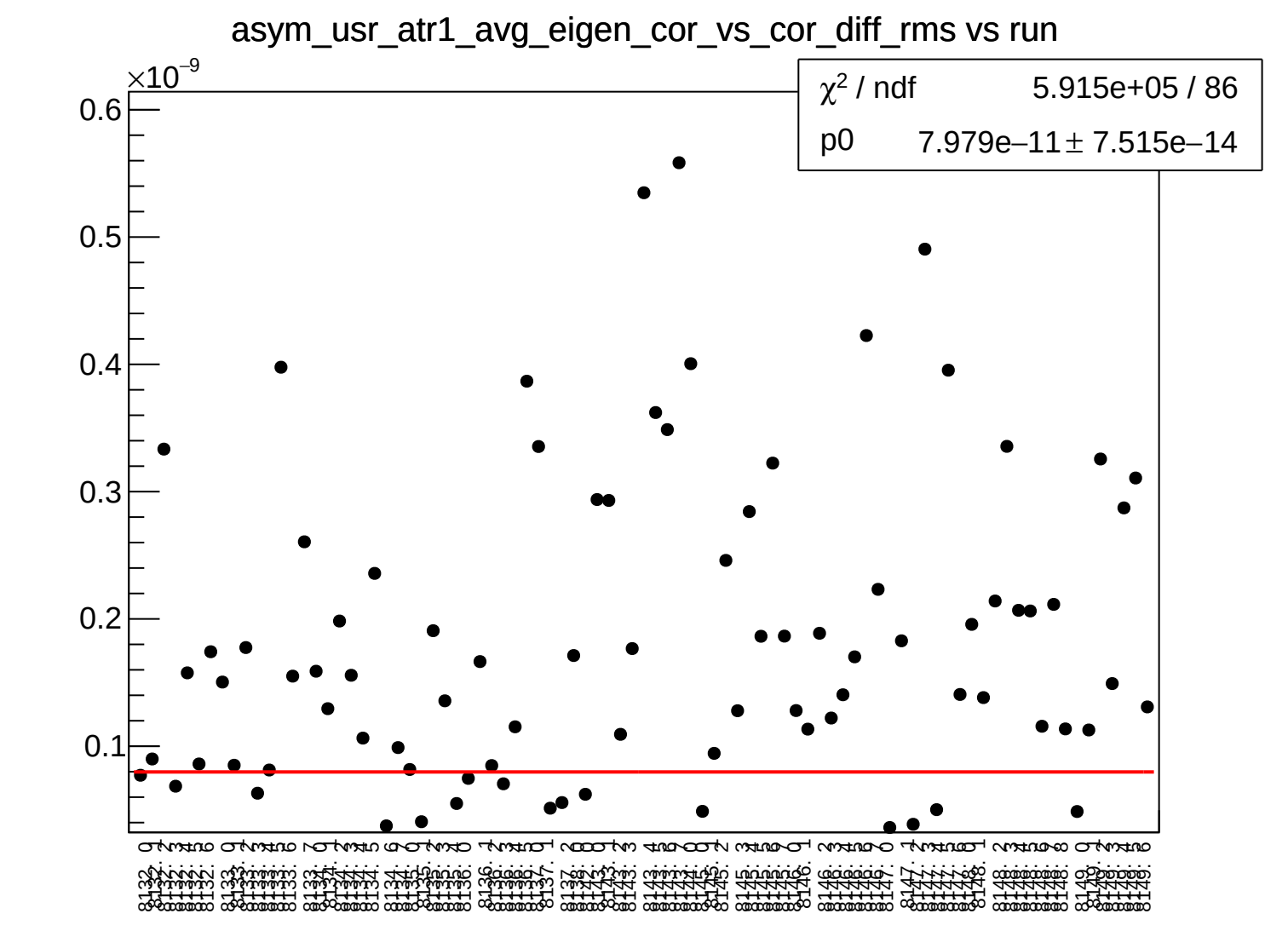

pull1D
Entries 87
Mean −0.02365
Std Dev 1.081

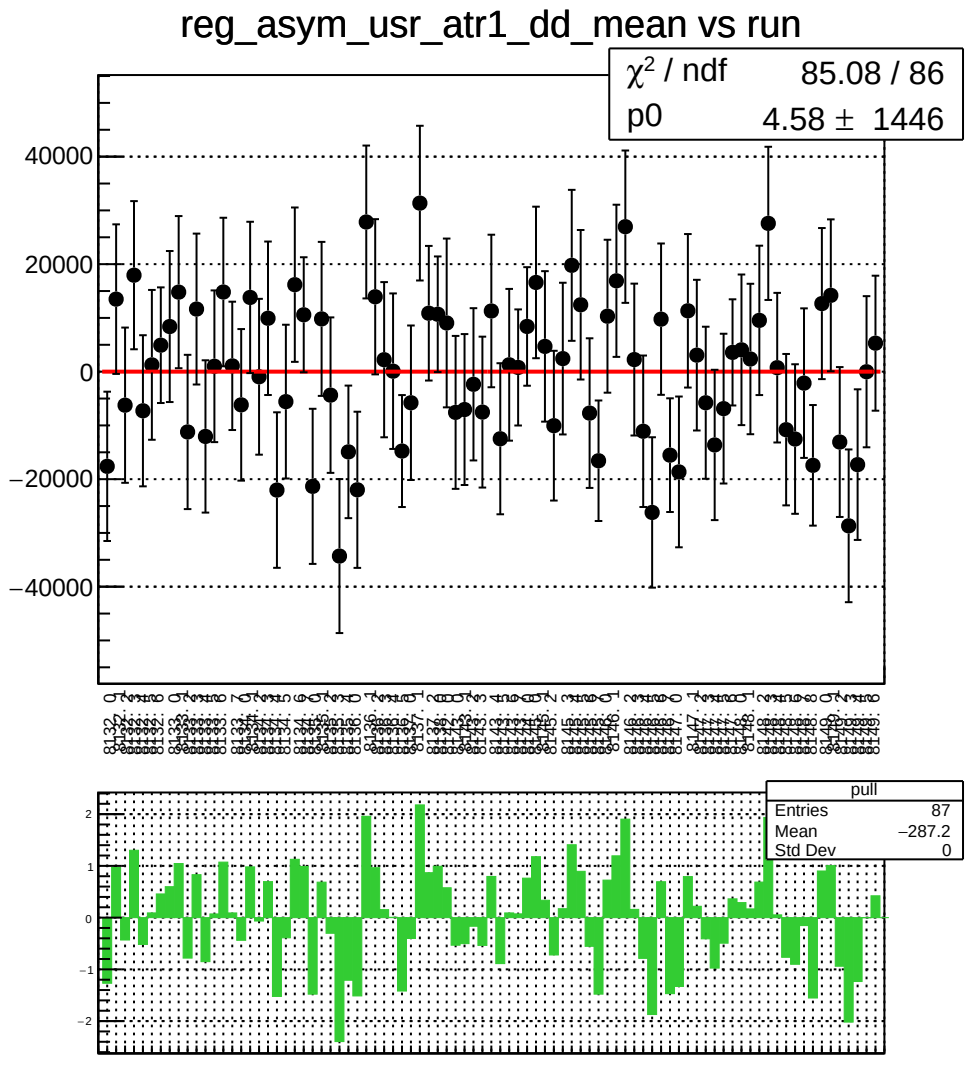

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.369e+05 / 86
p0 46.36 ± 0.04095
350
300
250
200
150
100
50

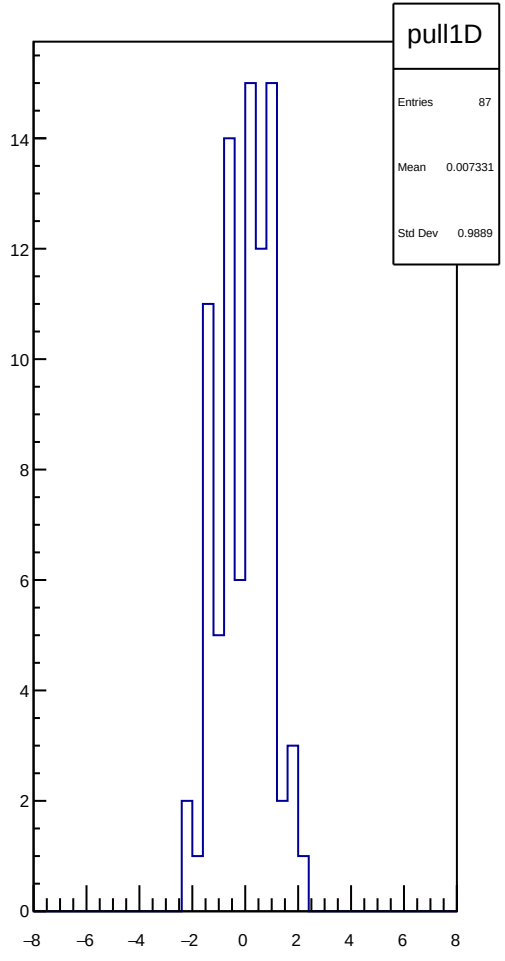

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.7 / 86
p0 0.06971 ± 0.05791
pull
Entries 87
Mean 19.25
Std Dev 0
pull1D
Entries 87
Mean −0.02365
Std Dev 1.081

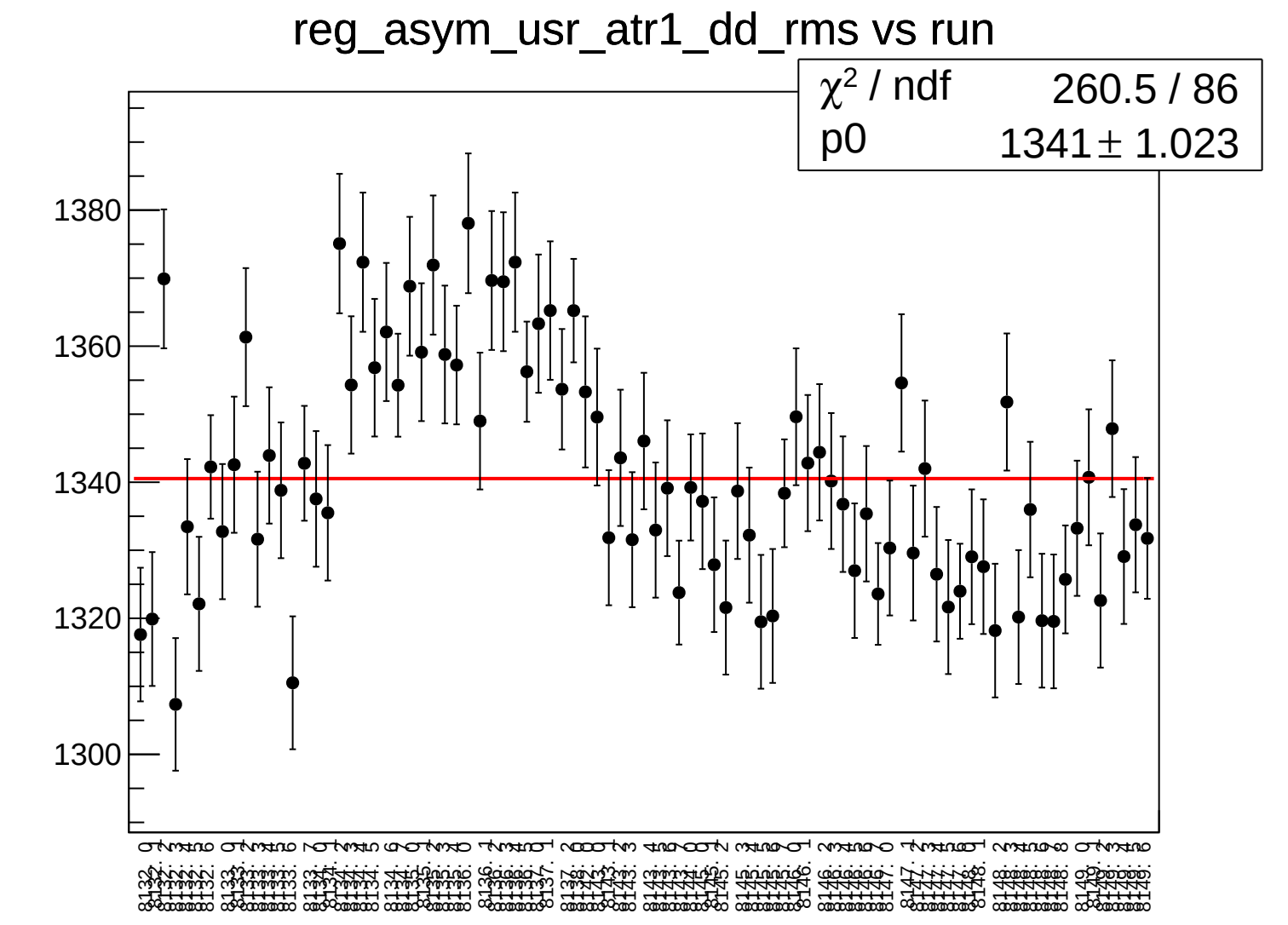

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.369e+05 / 86
p0 46.36 ± 0.04095
350
300
250
200
150
100
50

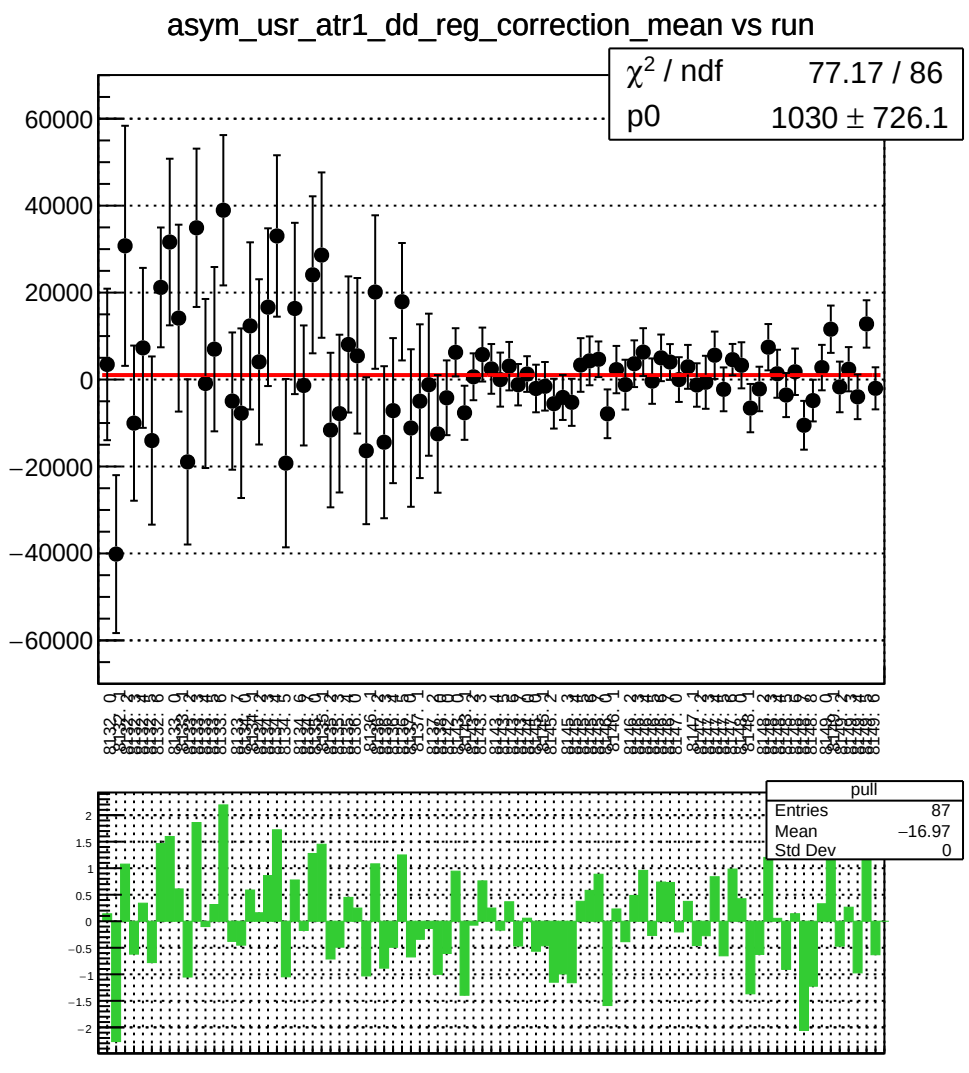

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 73.29 / 86
p0 −2.775e−14 ± 1.063e−13
pull
Entries 87
Mean 36.53
Std Dev 40.15
pull1D
Entries 87
Mean 0.0503
Std Dev 0.9165

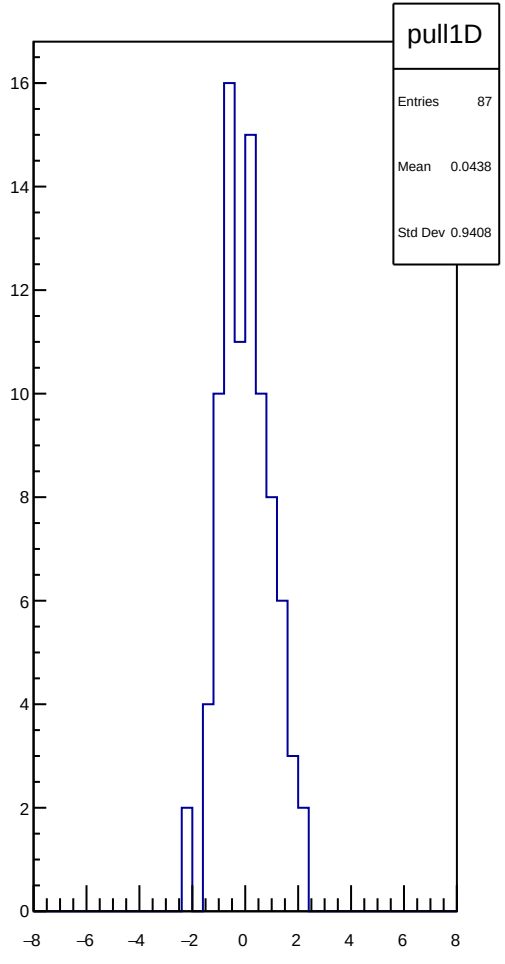

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.915e+05 / 86
p0 7.979e−11 ± 7.515e−14
0.6
0.5
0.4
0.3
0.2
0.1

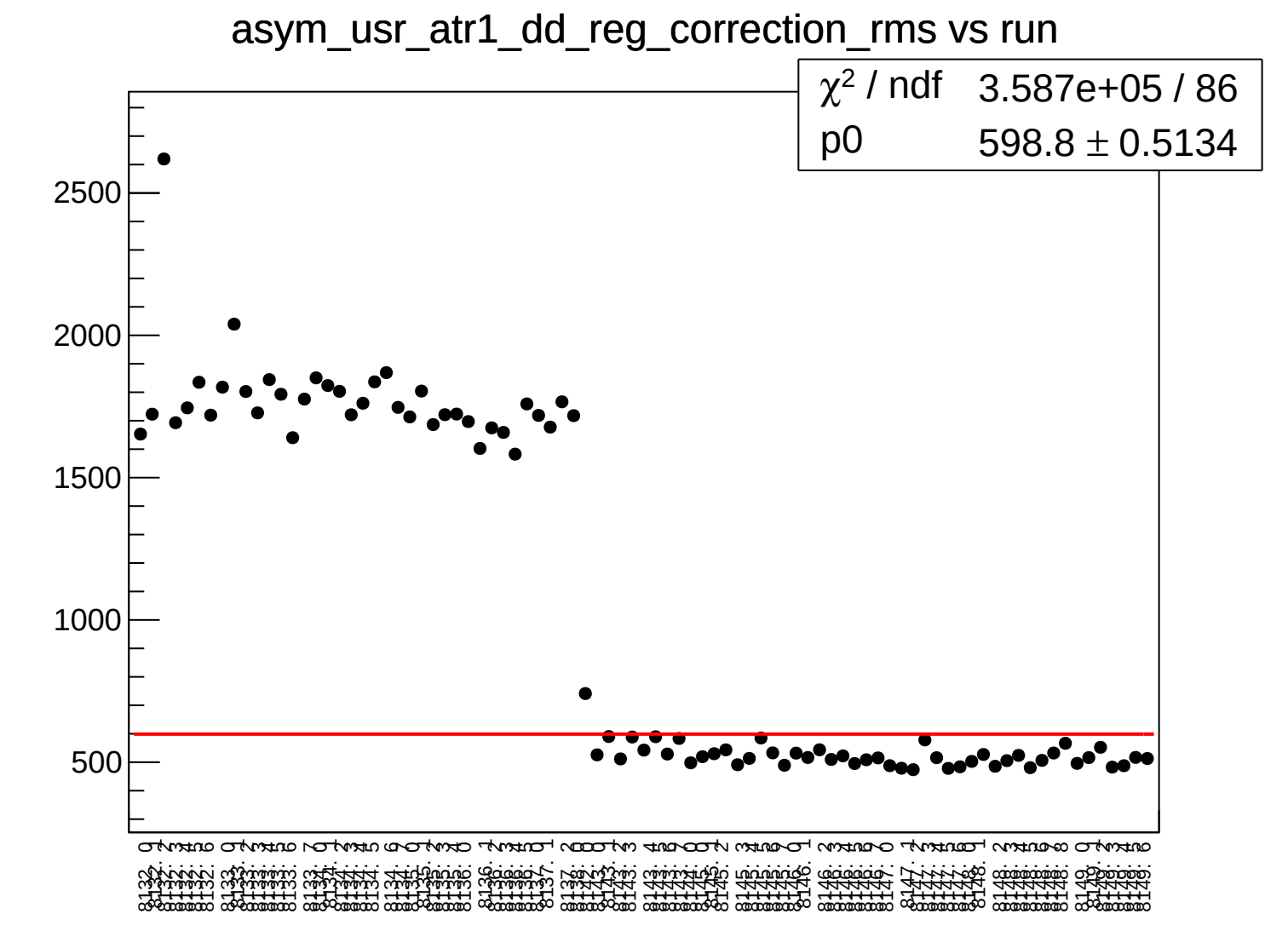

reg_asym_usr_atr1_dd_mean vs run
χ² / ndf 85.08 / 86
p0 4.58 ± 1446
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −287.2
Std Dev 0
2
1
0
−1
−2

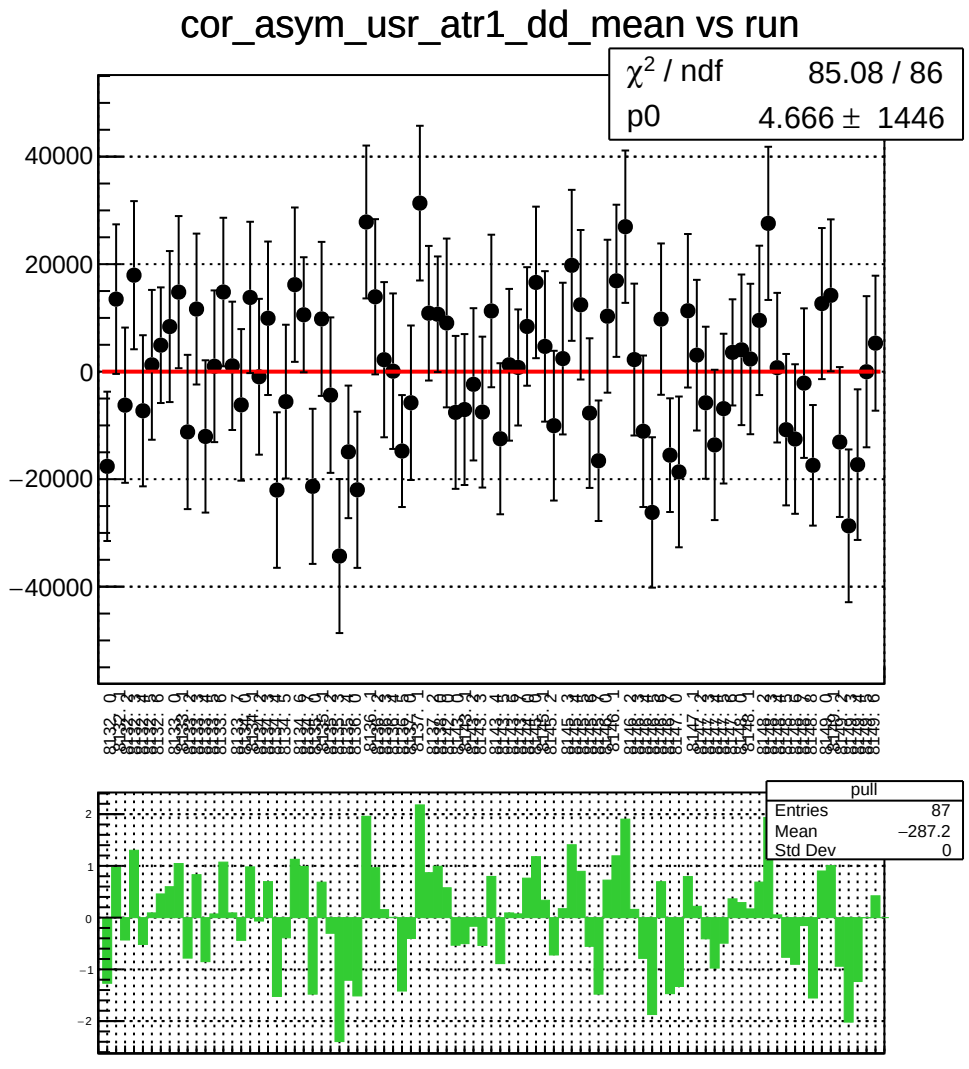

pull1D
Entries 87
Mean 0.007331
Std Dev 0.9889
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

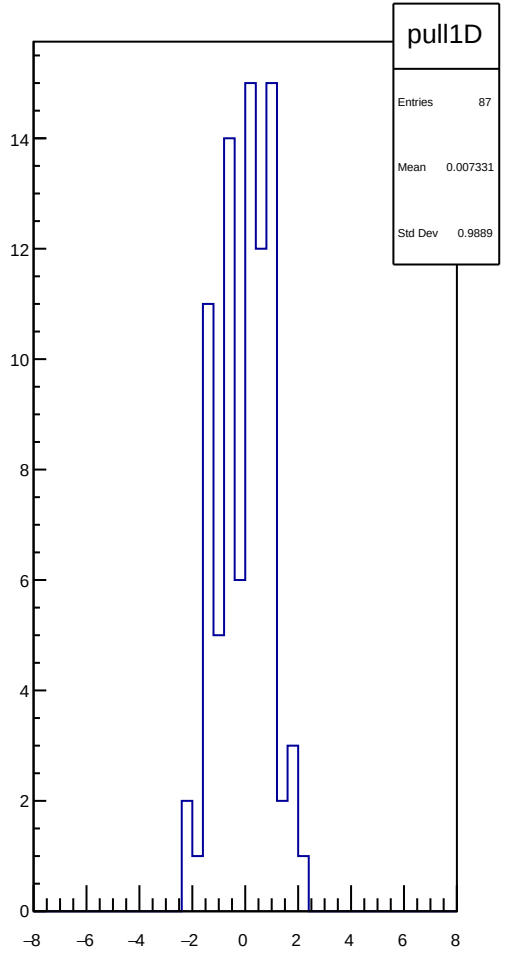

reg_asym_usr_atr1_dd_rms vs run
χ² / ndf 260.5 / 86
p0 1341 ± 1.023
1380
1360
1340
1320
1300

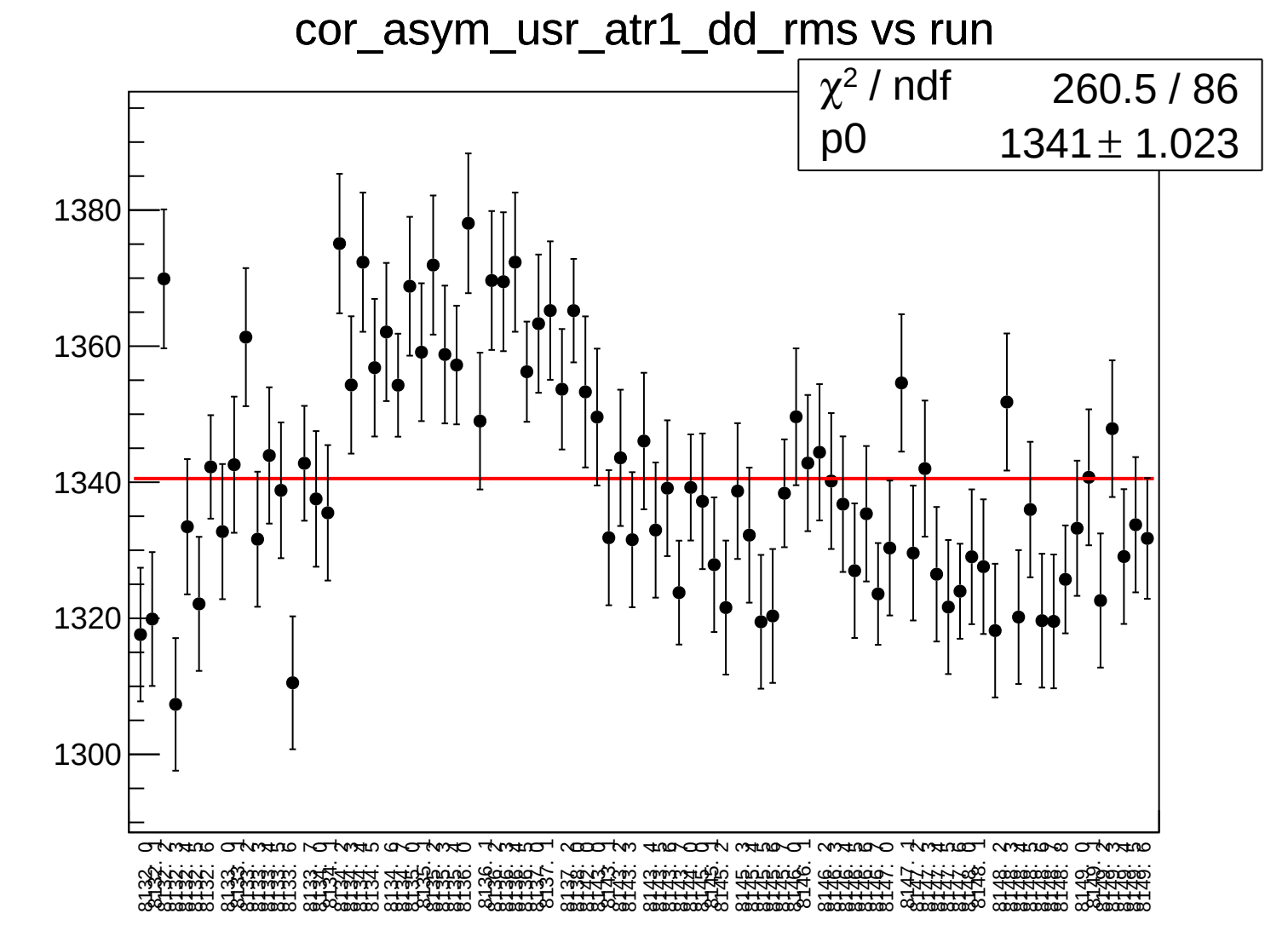

asym_usr_atr1_dd_reg_correction_mean vs run
χ² / ndf 77.17 / 86
p0 1030 ± 726.1
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −16.97
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

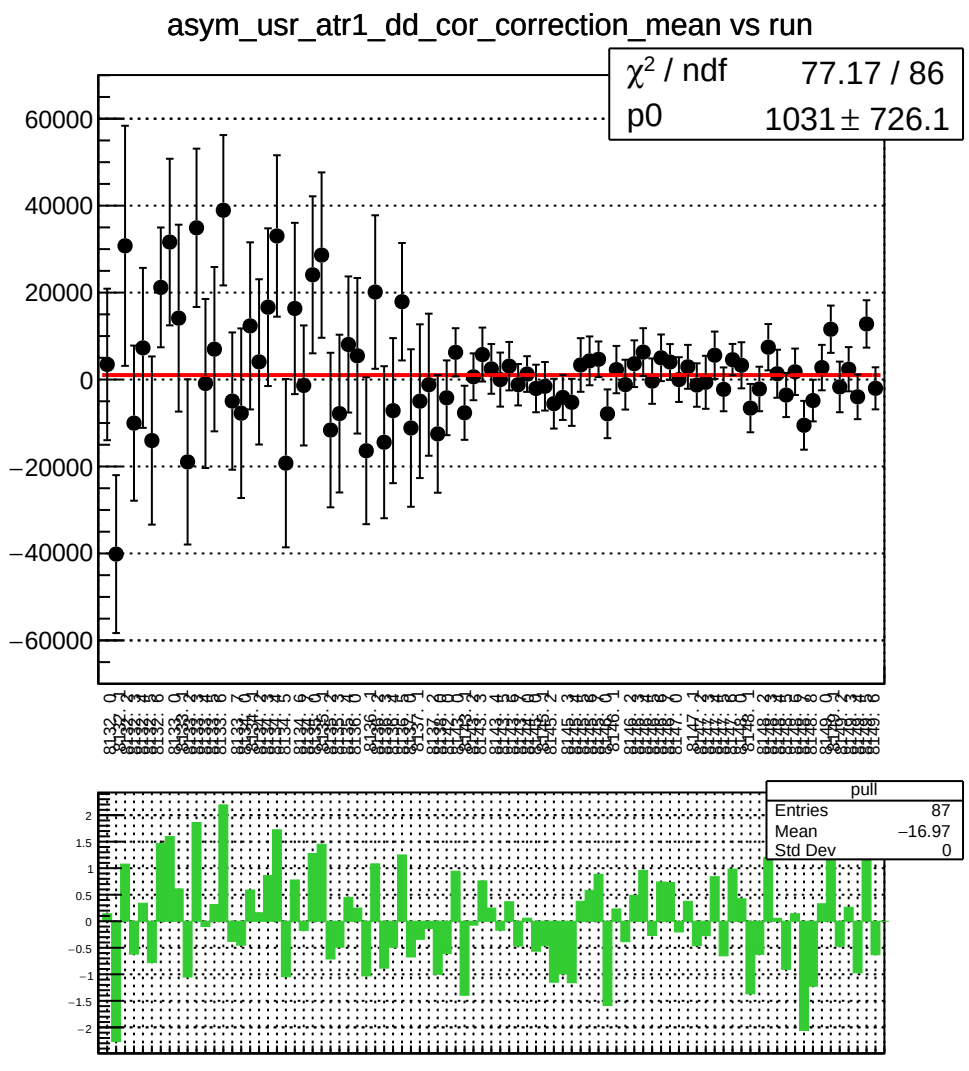

pull1D
Entries 87
Mean 0.0438
Std Dev 0.9408
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

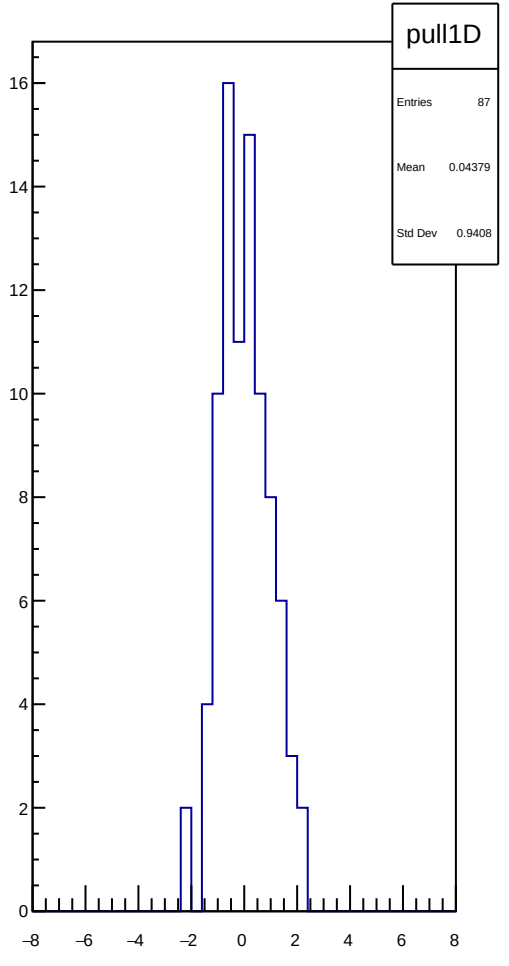

asym_usr_atr1_dd_reg_correction_rms vs run
χ² / ndf 3.587e+05 / 86
p0 598.8 ± 0.5134
2500
2000
1500
1000
500

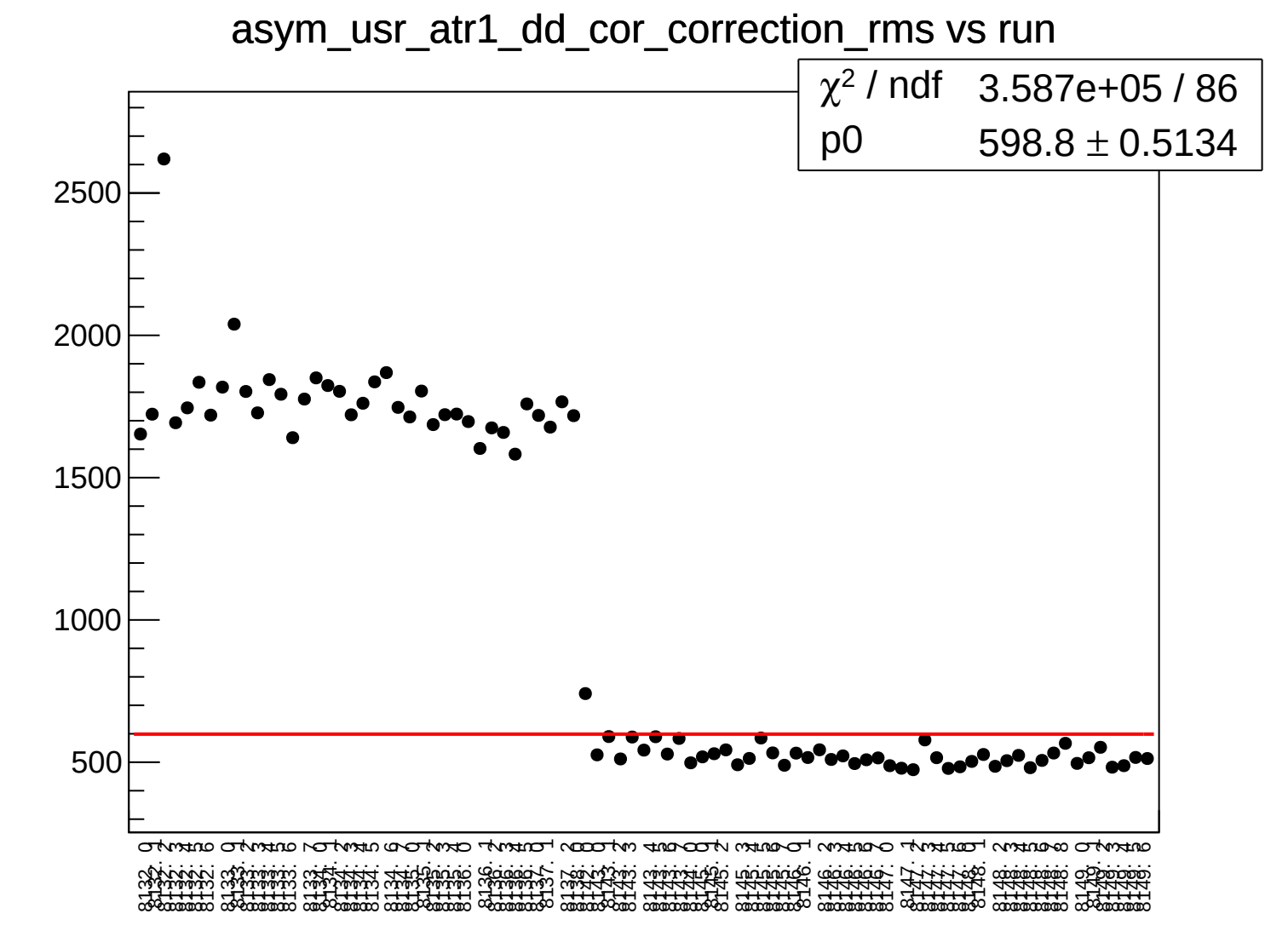

cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 85.08 / 86
p0 4.666 ± 1446
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −287.2
Std Dev 0
2
1
0
−1
−2

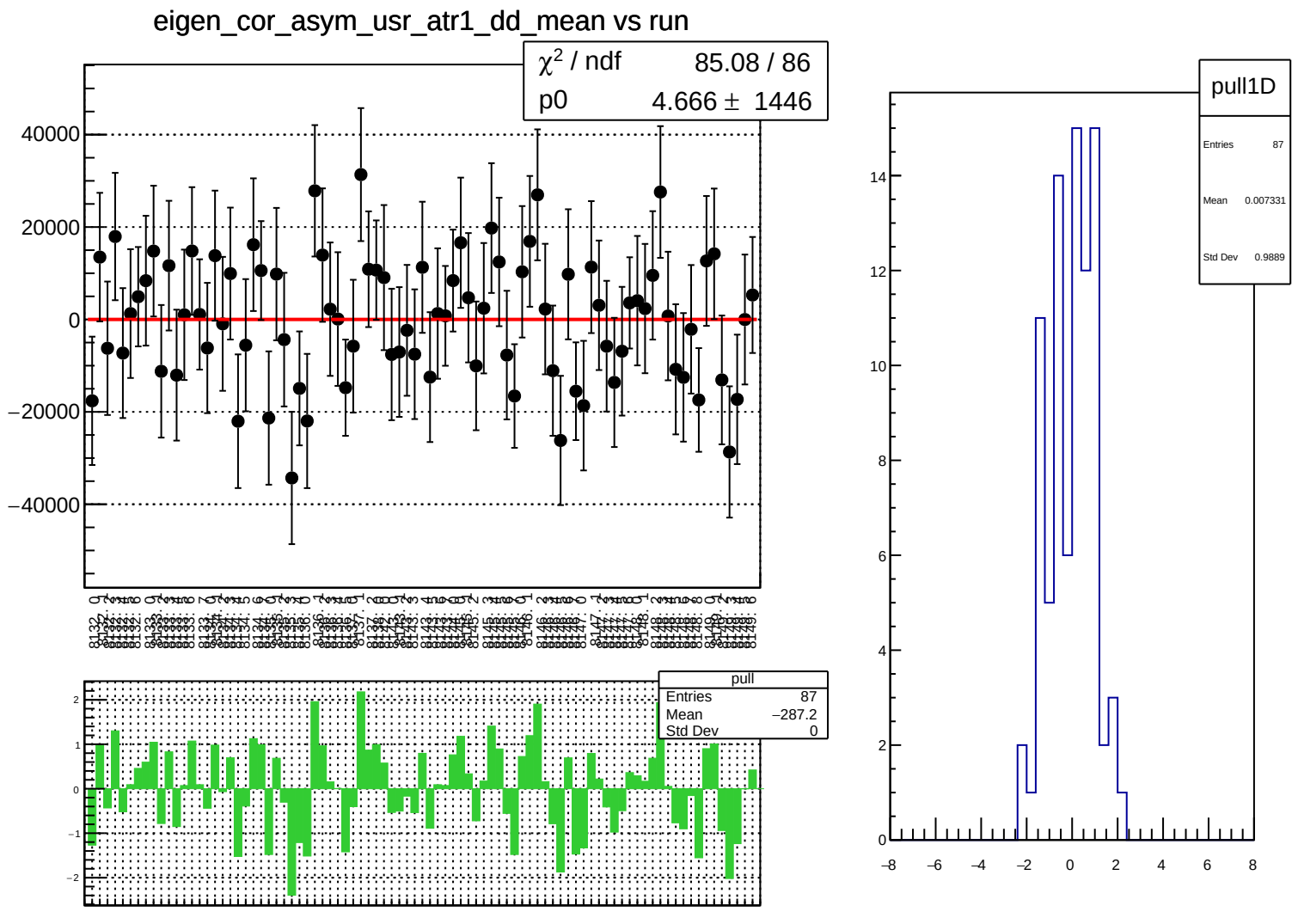

pull1D
Entries 87
Mean 0.007331
Std Dev 0.9889
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

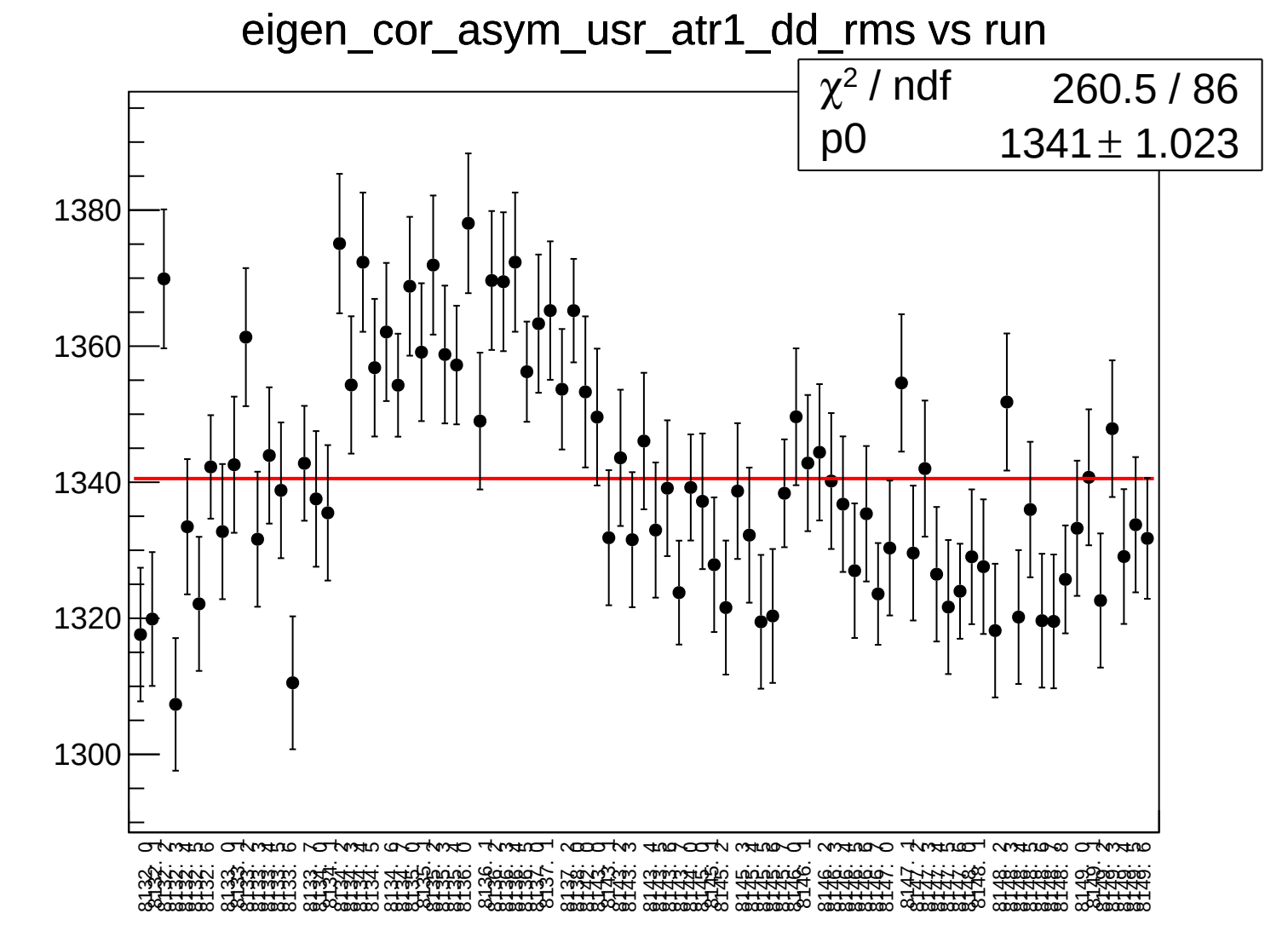

cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 260.5 / 86
p0 1341 ± 1.023
1380
1360
1340
1320
1300

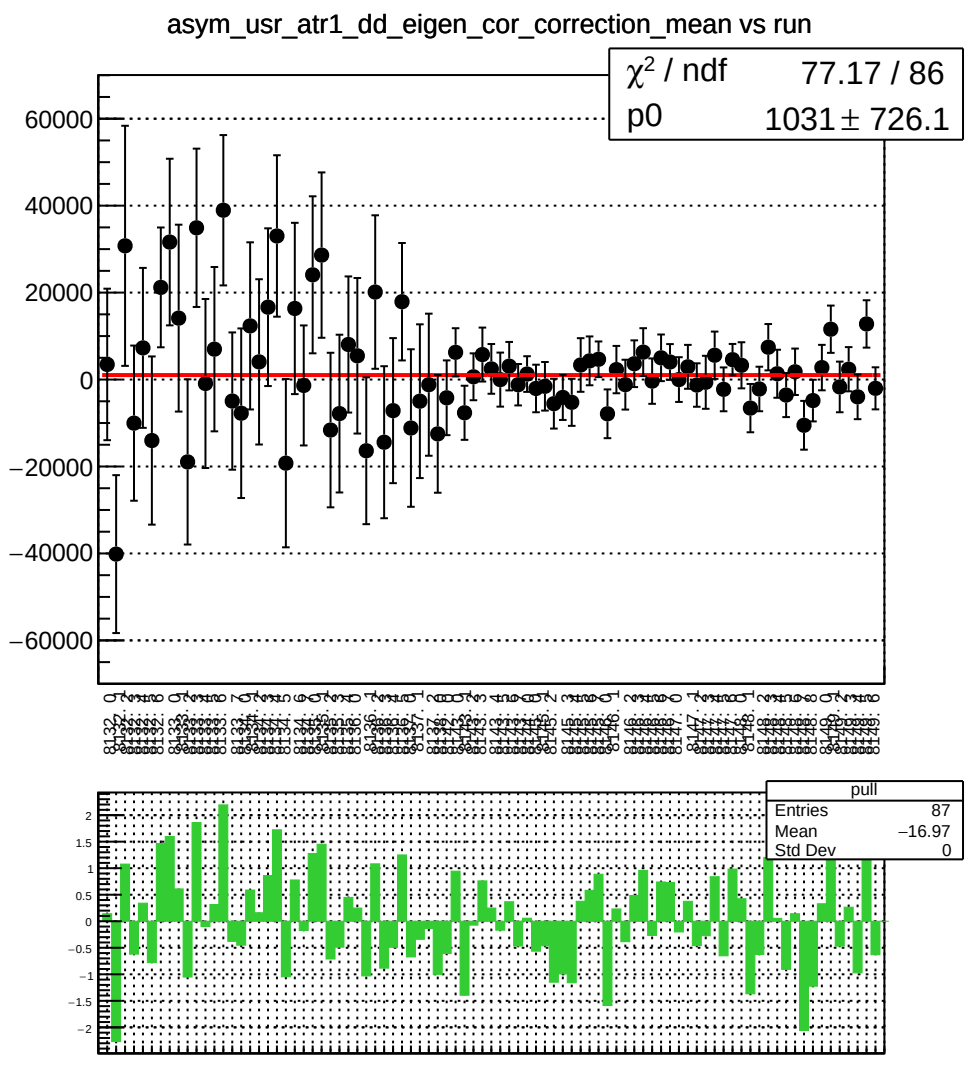

asym_usr_atr1_dd_cor_correction_mean vs run
χ² / ndf 77.17 / 86
p0 1031 ± 726.1
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −16.97
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

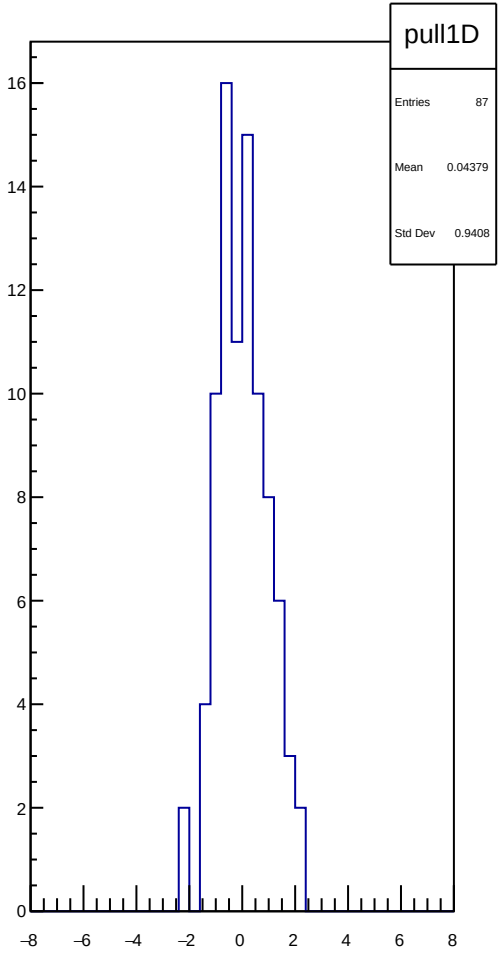

pull1D
Entries 87
Mean 0.04379
Std Dev 0.9408
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

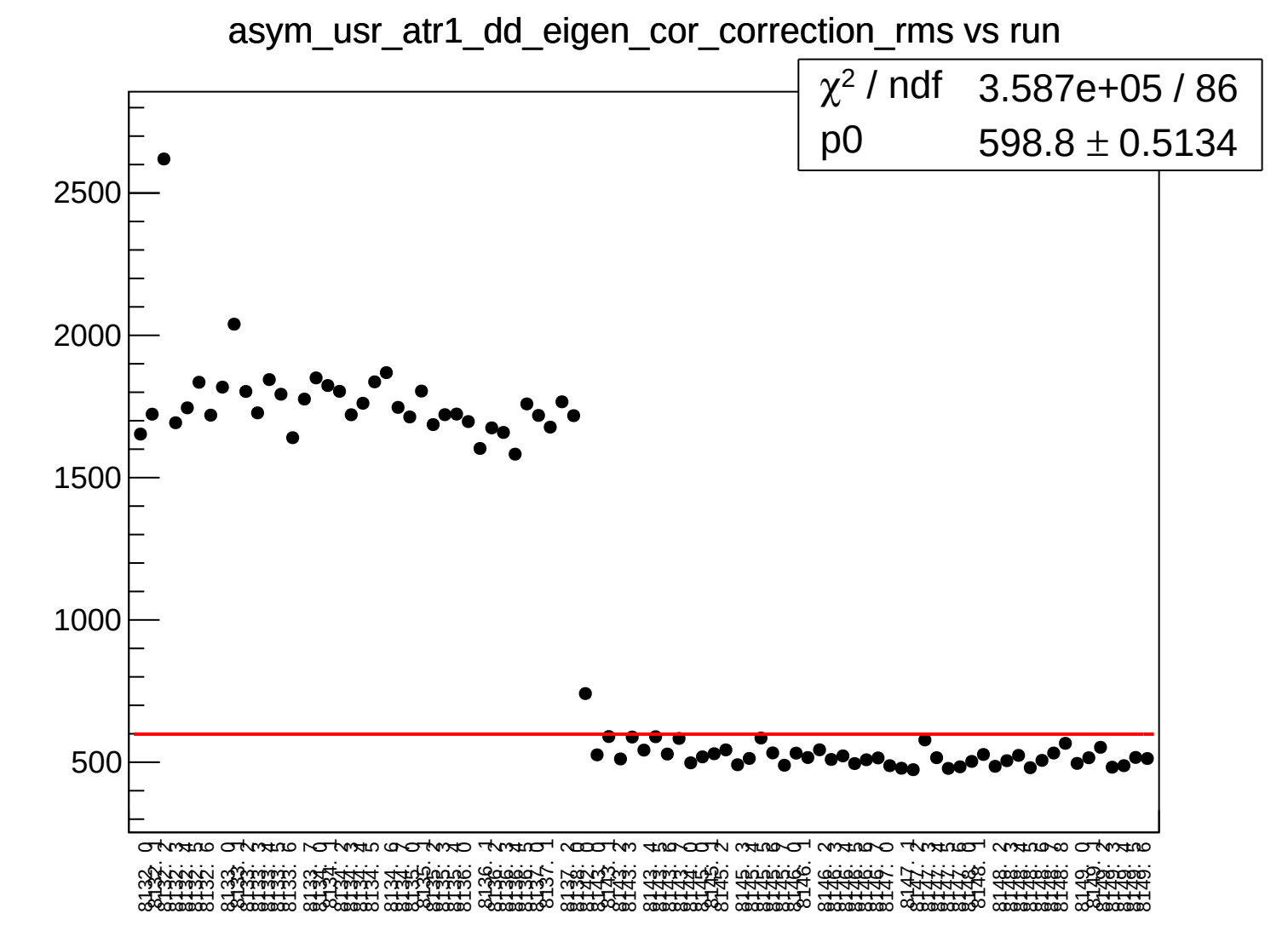

asym_usr_atr1_dd_cor_correction_rms vs run
χ² / ndf 3.587e+05 / 86
p0 598.8 ± 0.5134
2500
2000
1500
1000
500

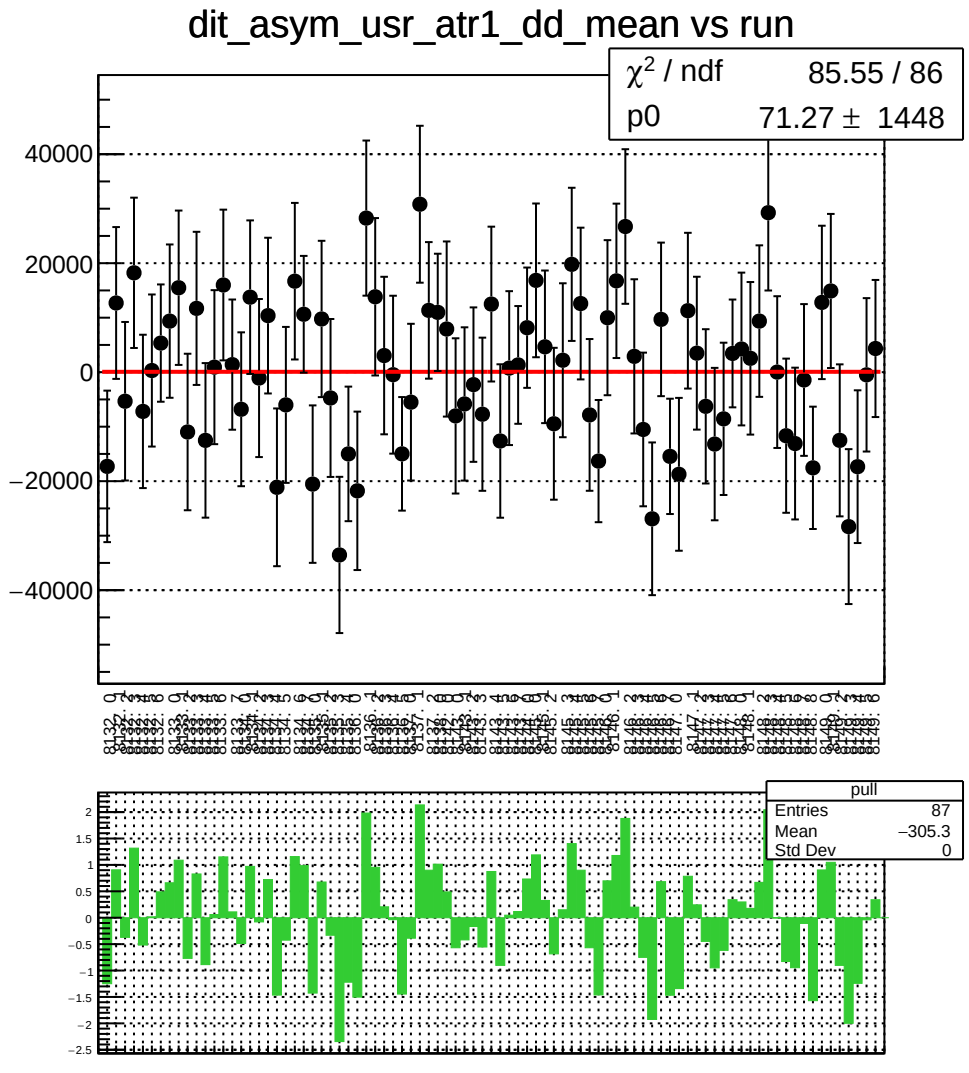

eigen_cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 85.08 / 86
p0 4.666 ± 1446
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −287.2
Std Dev 0
pull1D
Entries 87
Mean 0.007331
Std Dev 0.9889

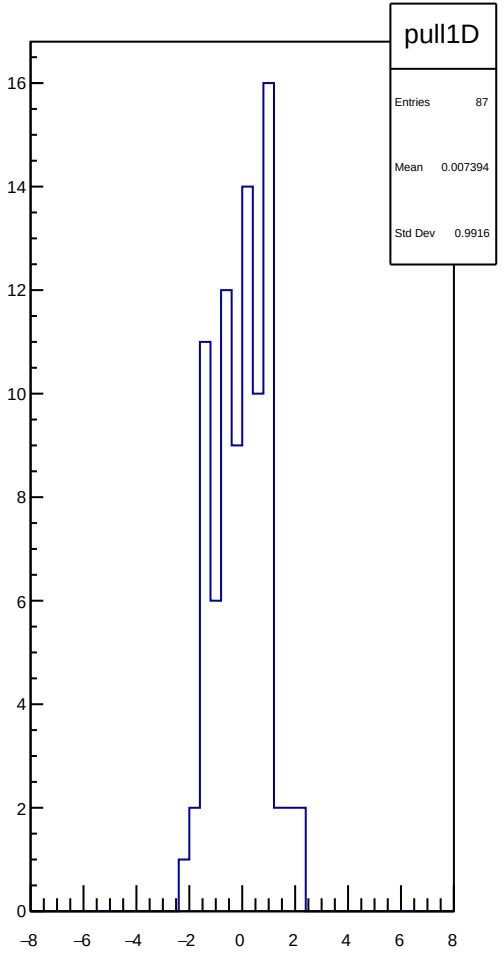

eigen_cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 260.5 / 86
p0 1341 ± 1.023
1380
1360
1340
1320
1300

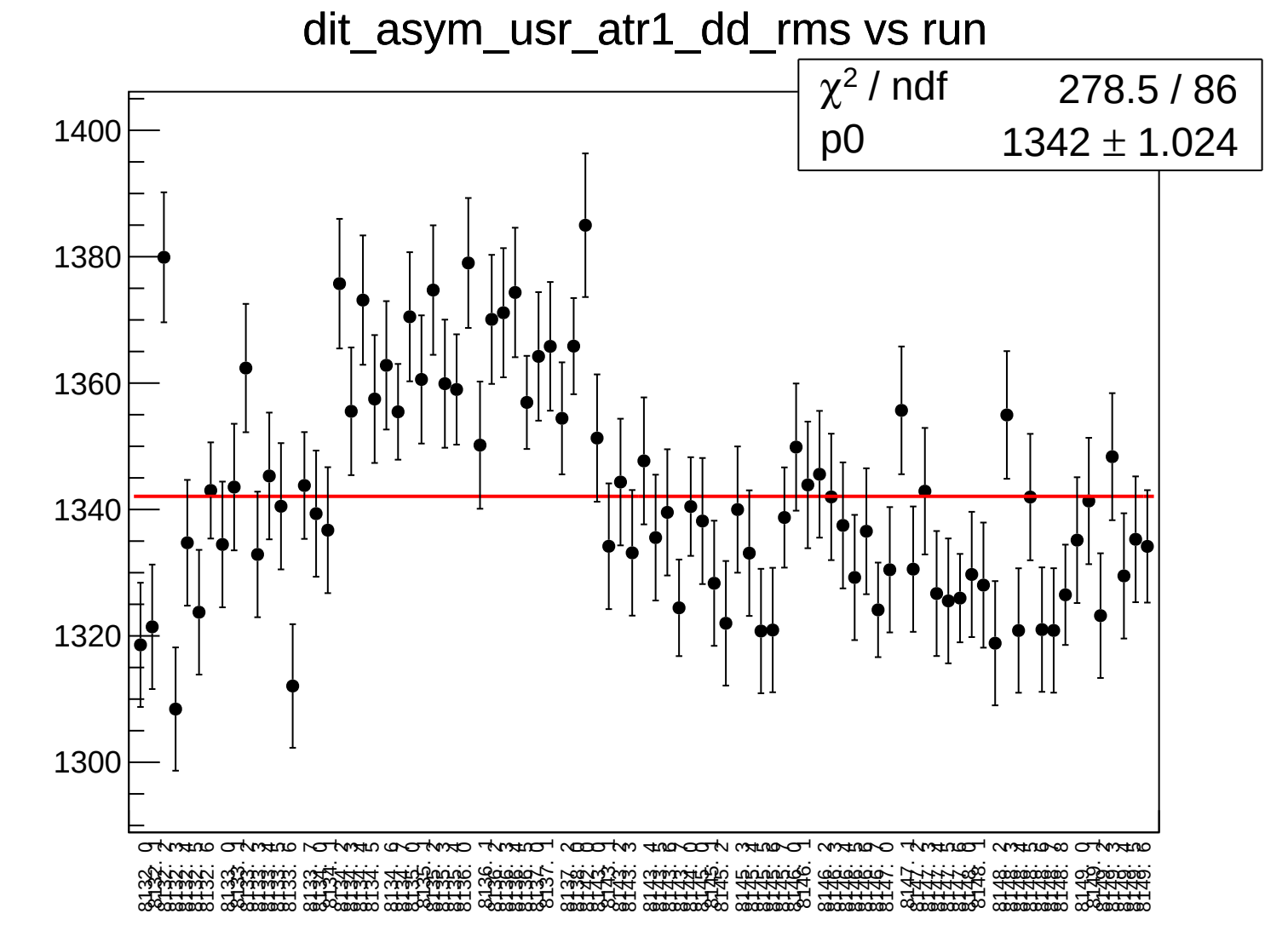

asym_usr_atr1_dd_eigen_cor_correction_mean vs run
χ² / ndf 77.17 / 86
p0 1031 ± 726.1
pull
Entries 87
Mean −16.97
Std Dev 0

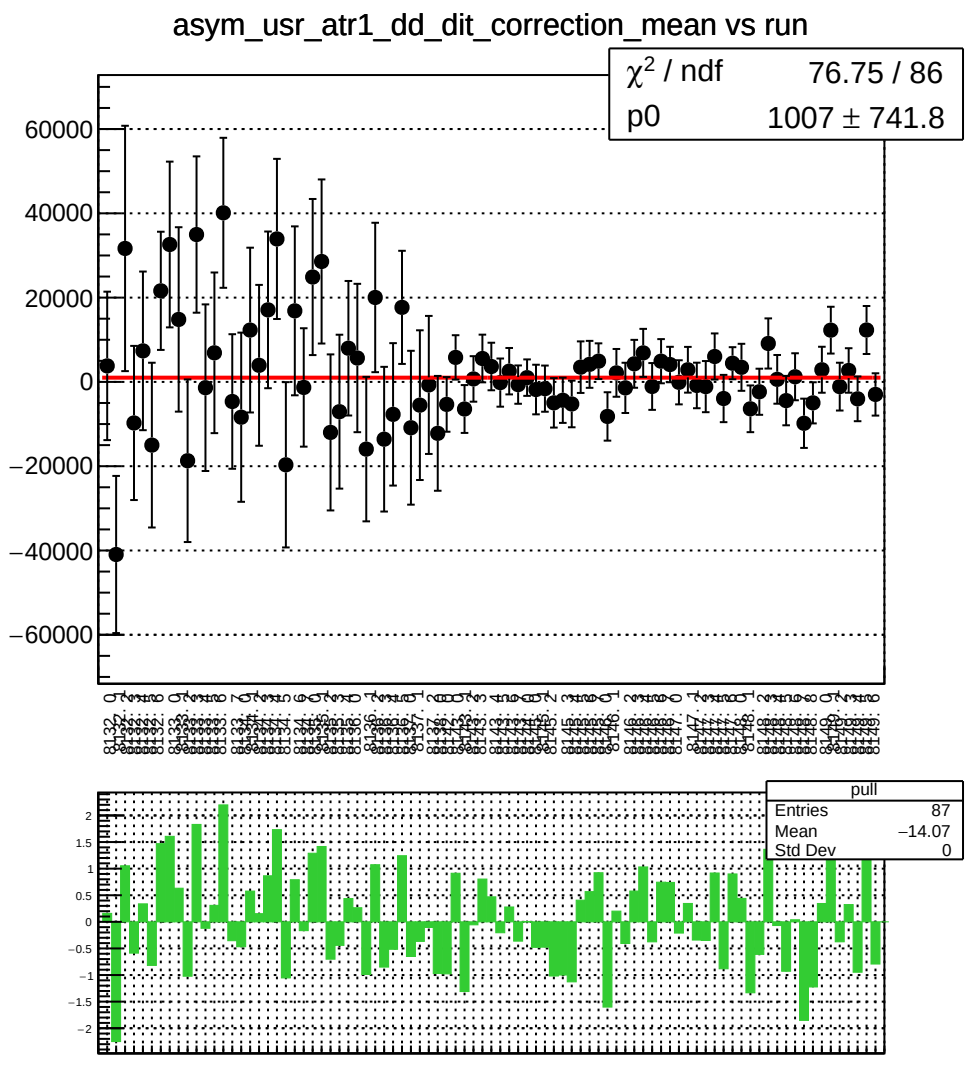

pull1D
Entries 87
Mean 0.04379
Std Dev 0.9408

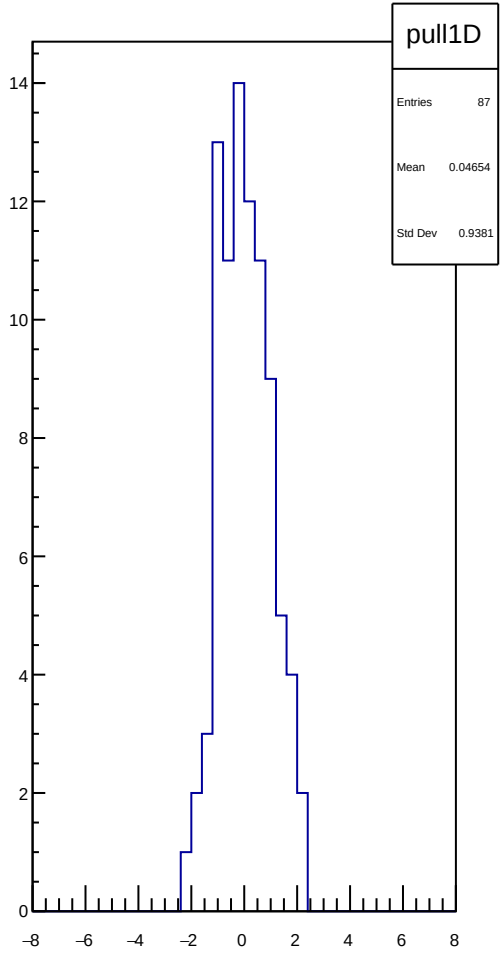

asym_usr_atr1_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.587e+05 / 86
p0 598.8 ± 0.5134
2500
2000
1500
1000
500

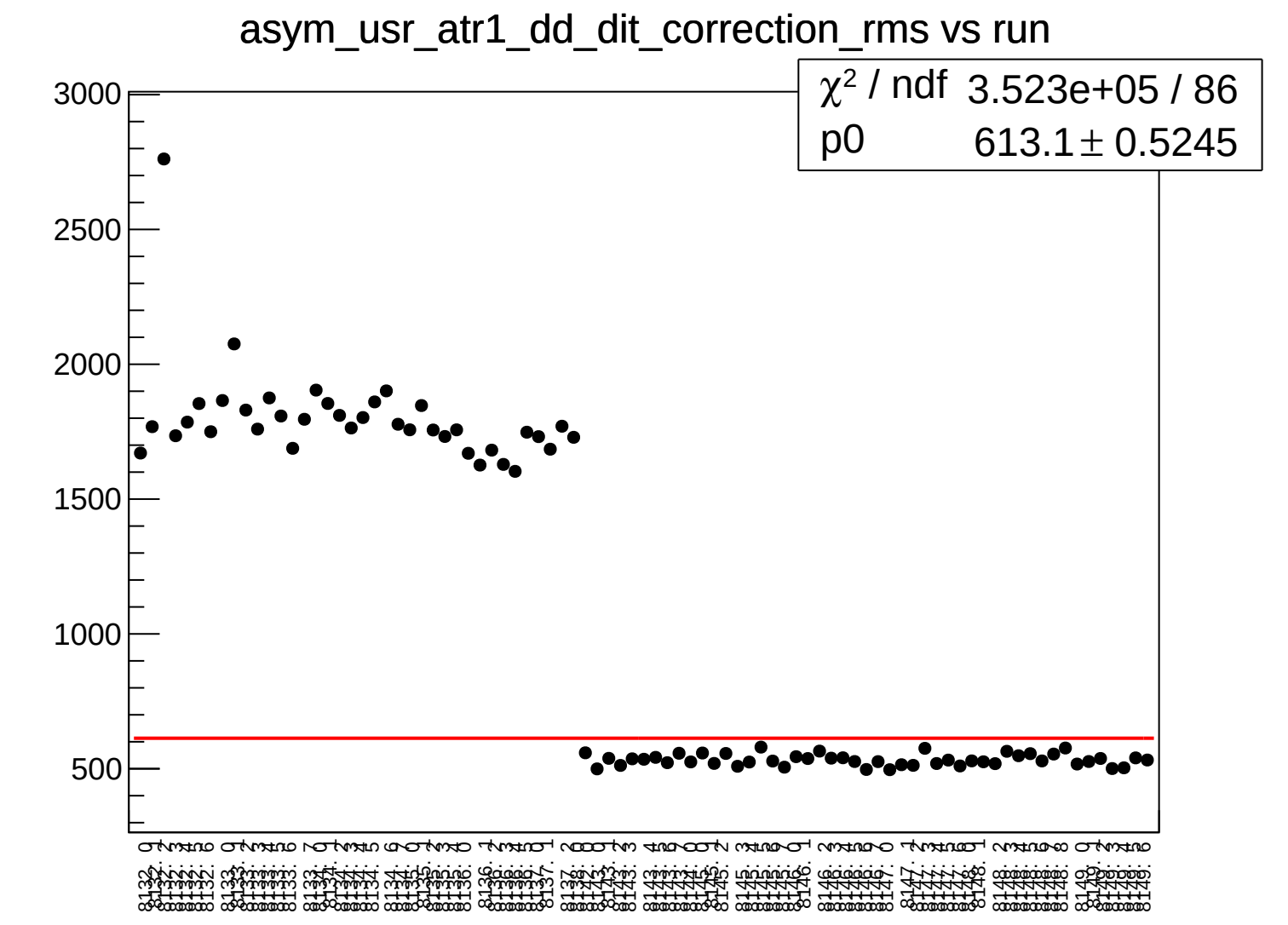

dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 85.55 / 86
p0 71.27 ± 1448
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −305.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

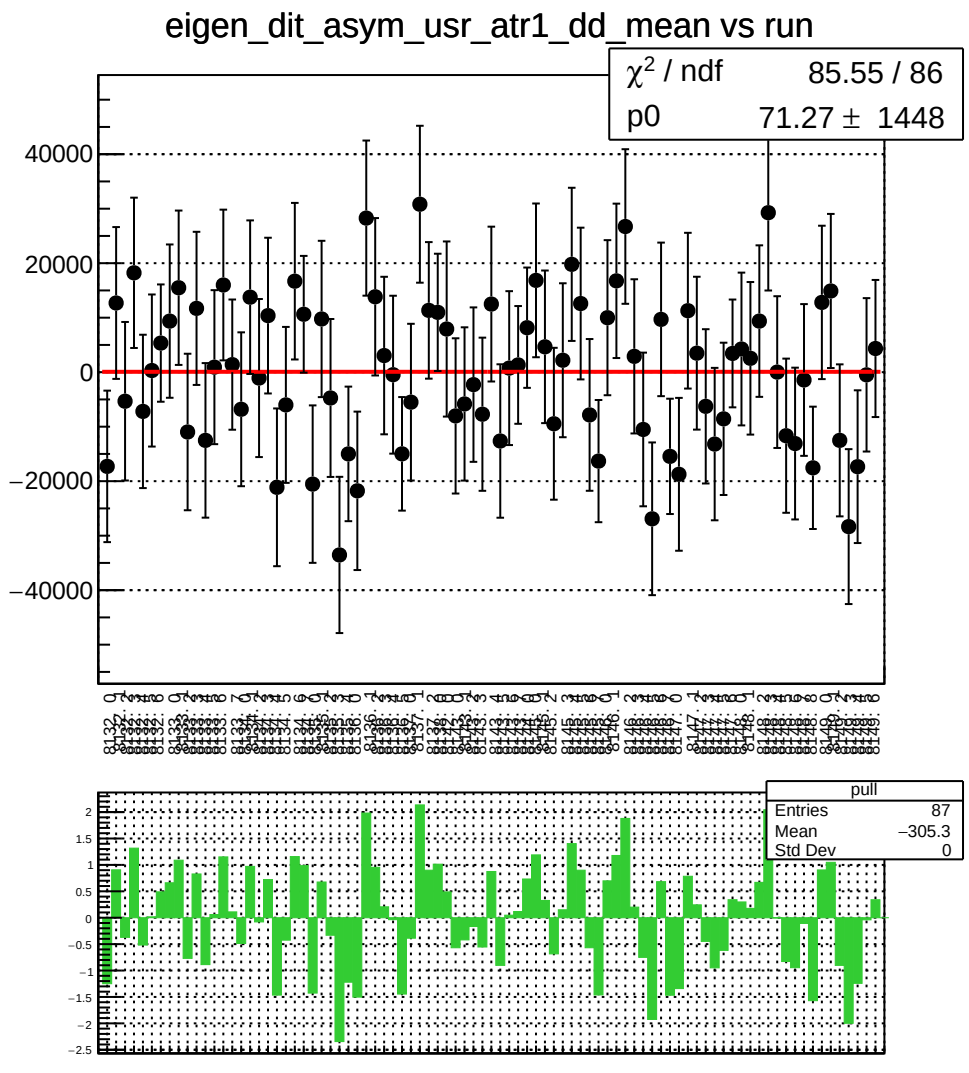

pull1D
Entries 87
Mean 0.007394
Std Dev 0.9916
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

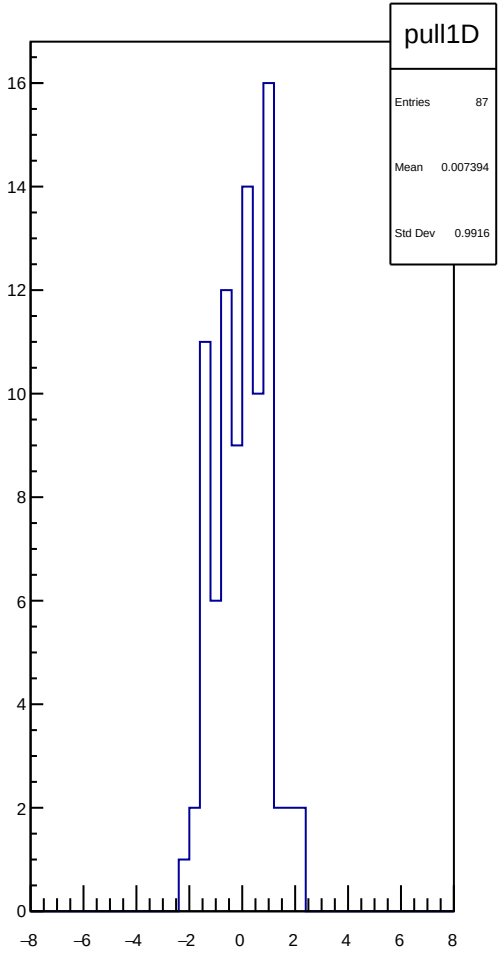

dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 278.5 / 86
p0 1342 ± 1.024
1400
1380
1360
1340
1320
1300

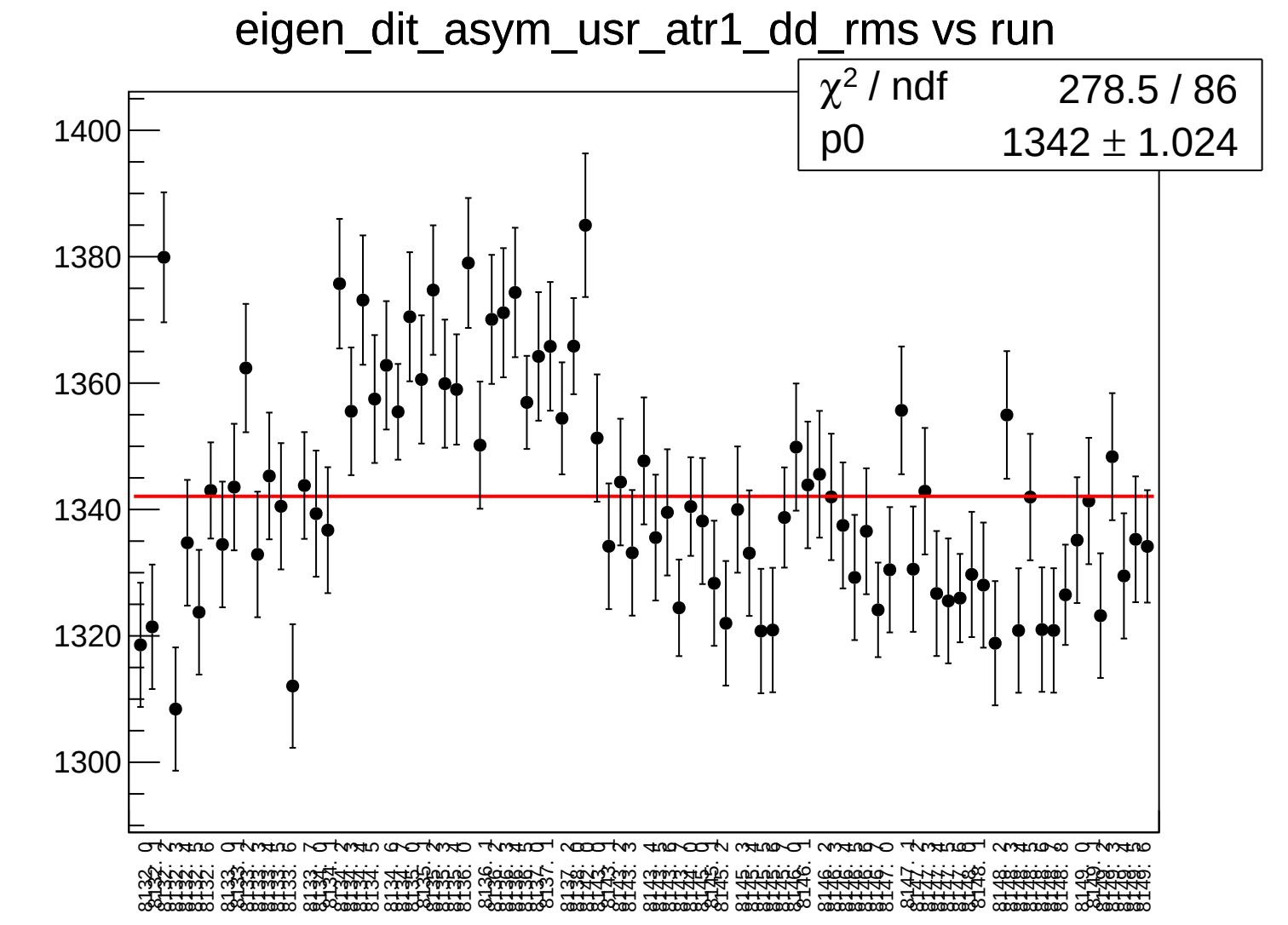

asym_usr_atr1_dd_dit_correction_mean vs run
χ² / ndf 76.75 / 86
p0 1007 ± 741.8
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −14.07
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

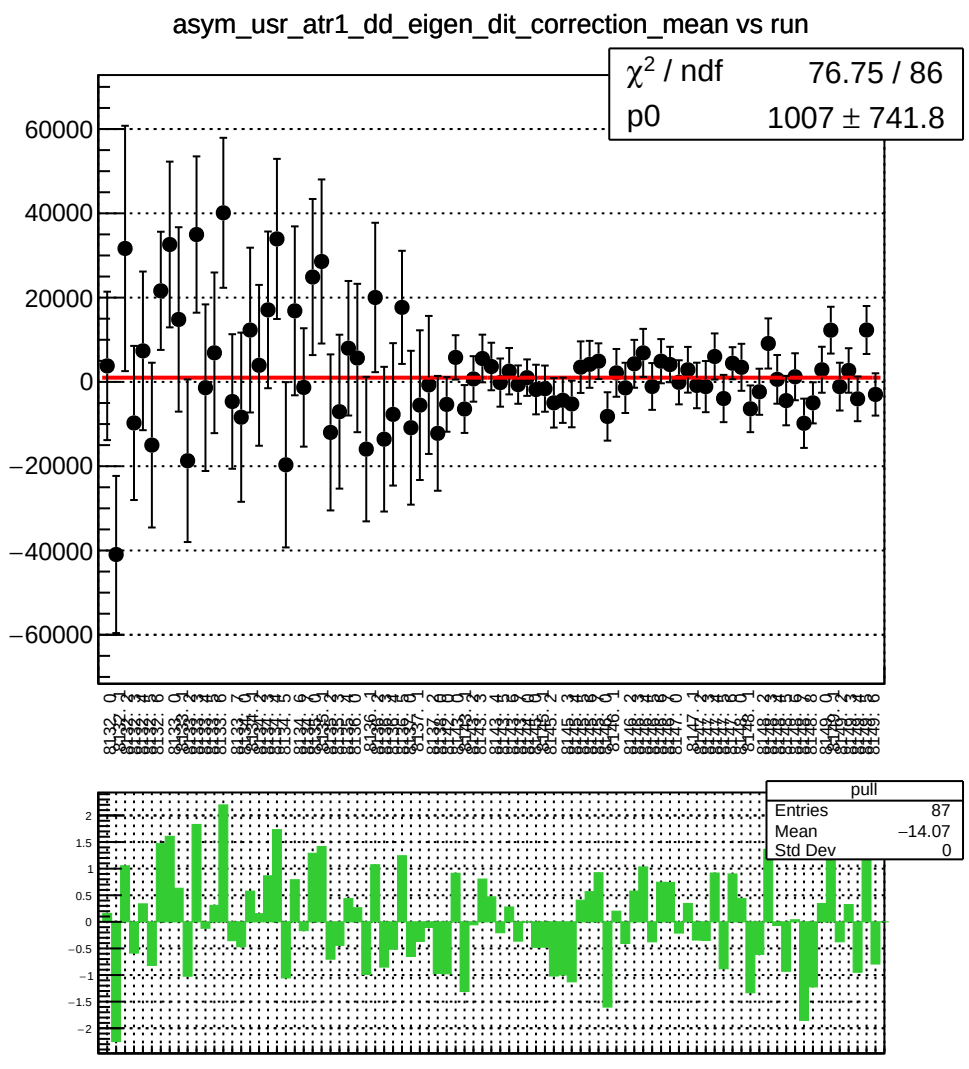

pull1D
Entries 87
Mean 0.04654
Std Dev 0.9381
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

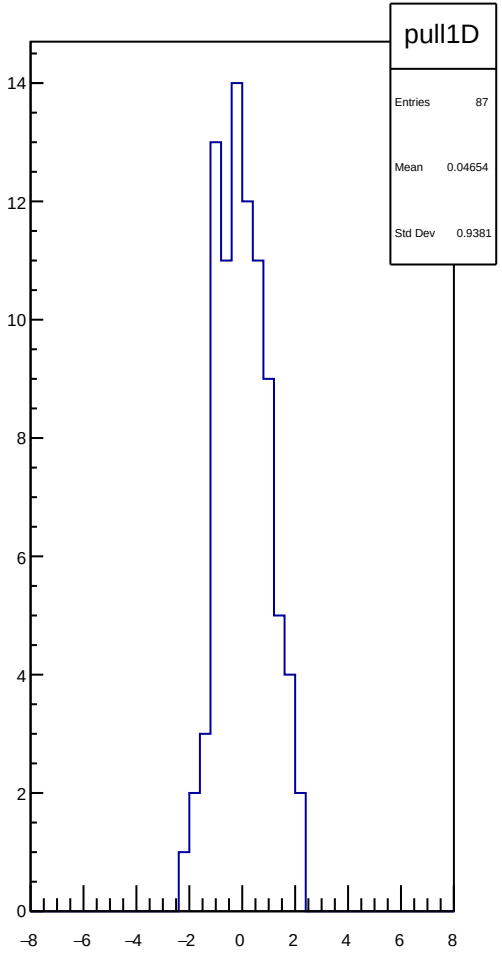

asym_usr_atr1_dd_dit_correction_rms vs run
χ² / ndf 3.523e+05 / 86
p0 613.1 ± 0.5245
3000
2500
2000
1500
1000
500

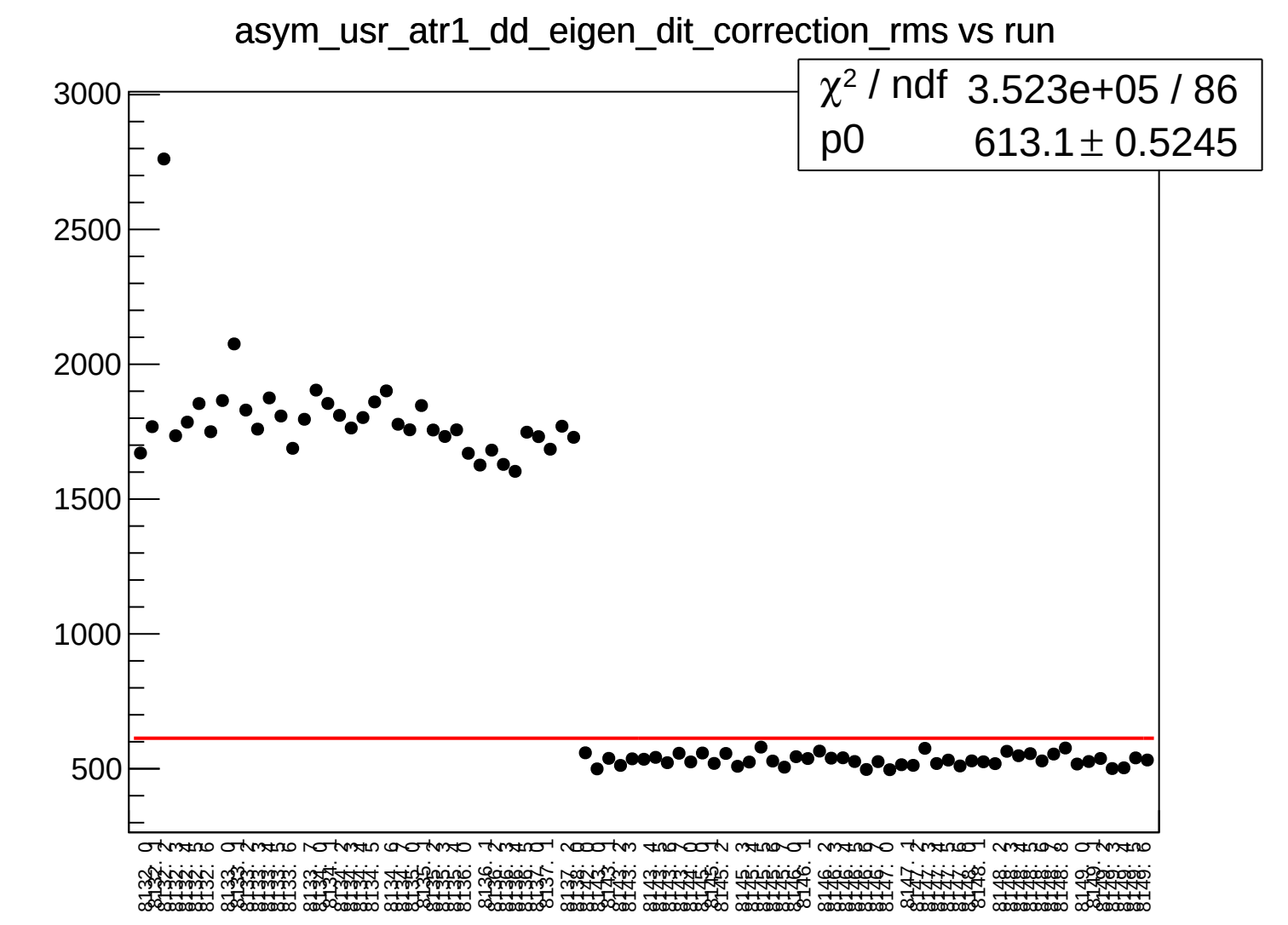

eigen_dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 85.55 / 86
p0 71.27 ± 1448
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −305.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

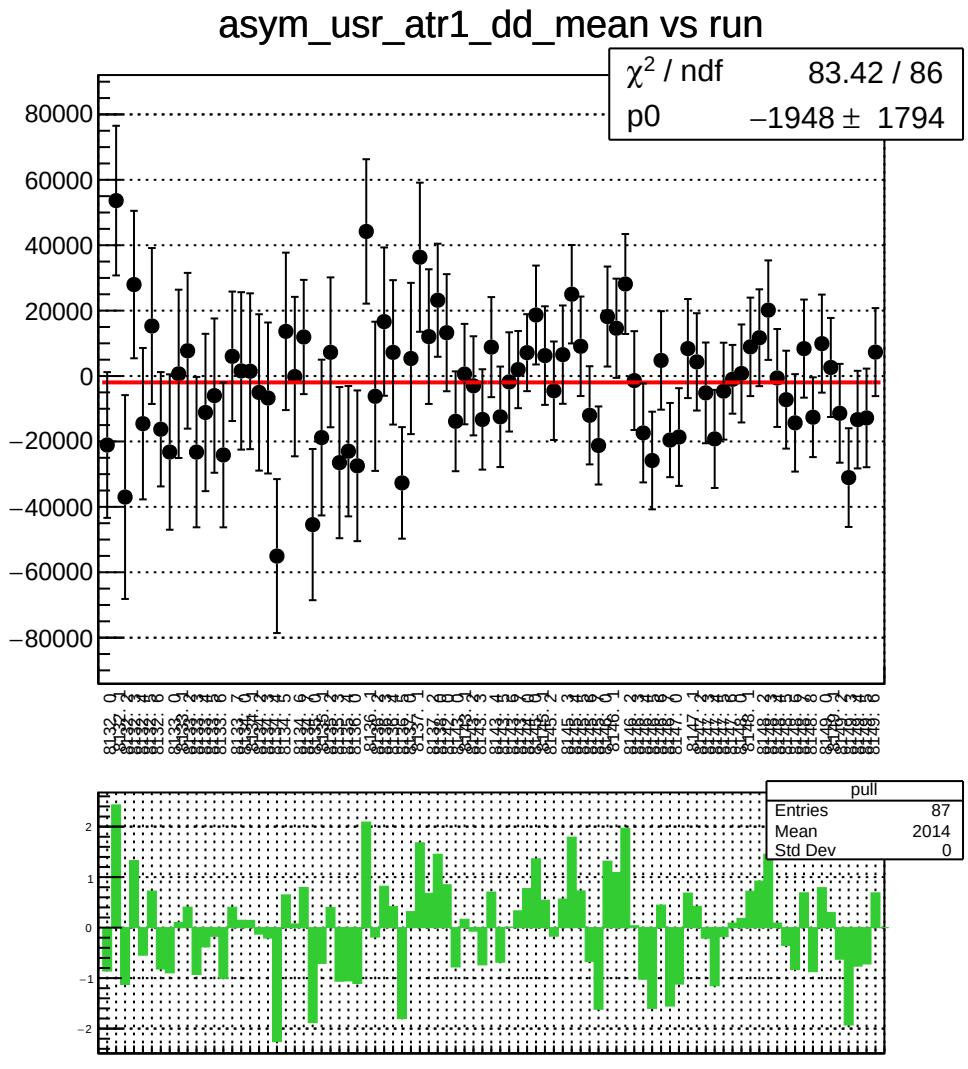

pull1D
Entries 87
Mean 0.007394
Std Dev 0.9916
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

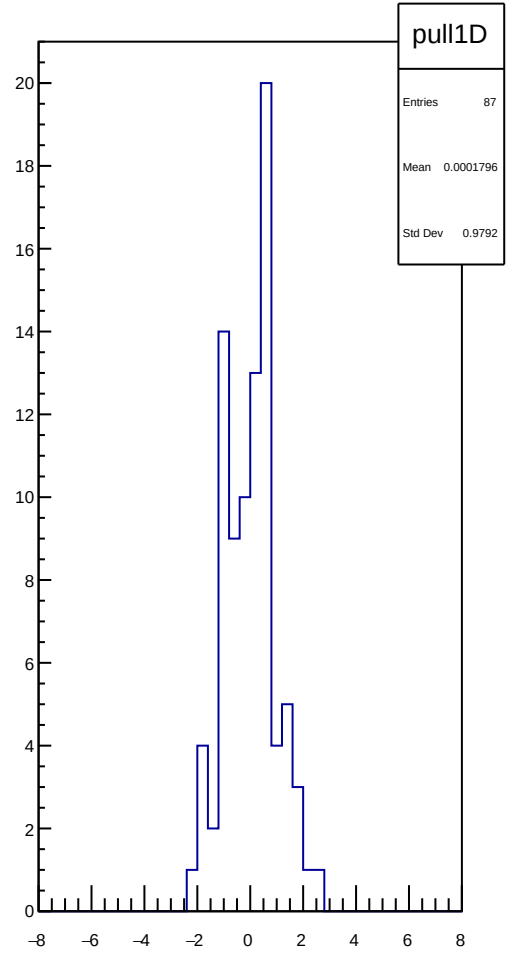

eigen_dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 278.5 / 86
p0 1342 ± 1.024
1400
1380
1360
1340
1320
1300

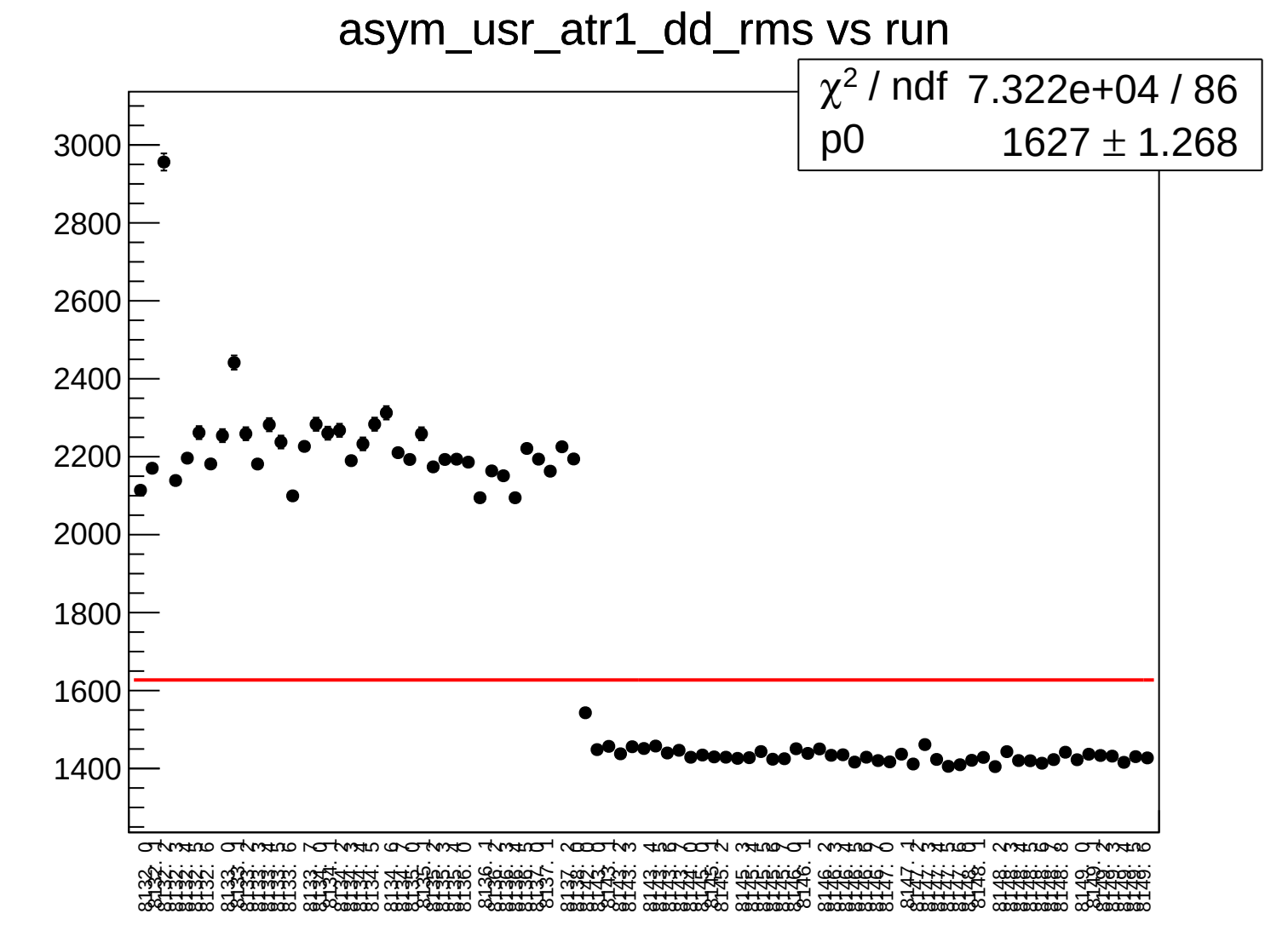

asym_usr_atr1_dd_eigen_dit_correction_mean vs run
χ² / ndf 76.75 / 86
p0 1007 ± 741.8
pull
Entries 87
Mean −14.07
Std Dev 0

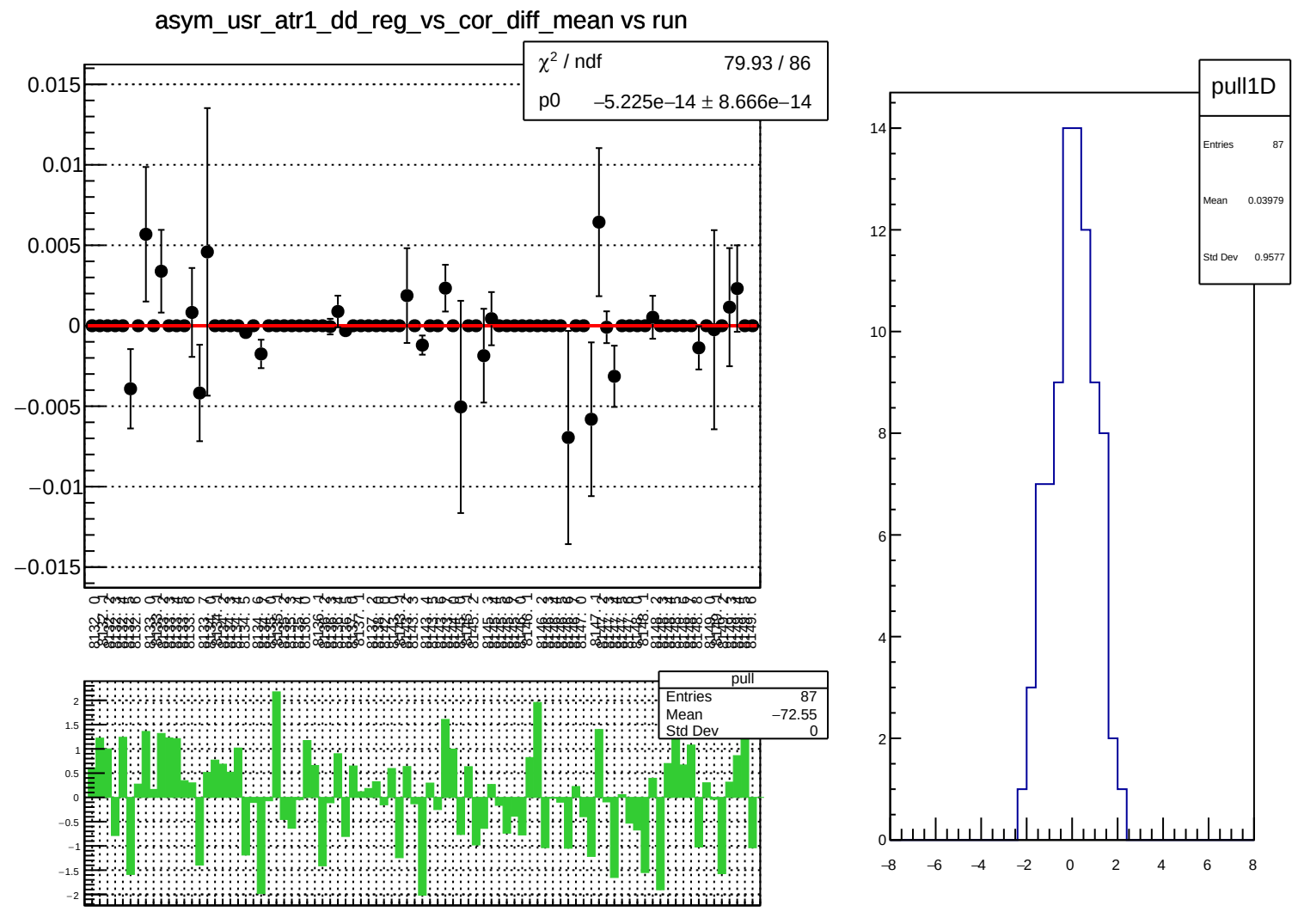

pull1D
Entries 87
Mean 0.04654
Std Dev 0.9381

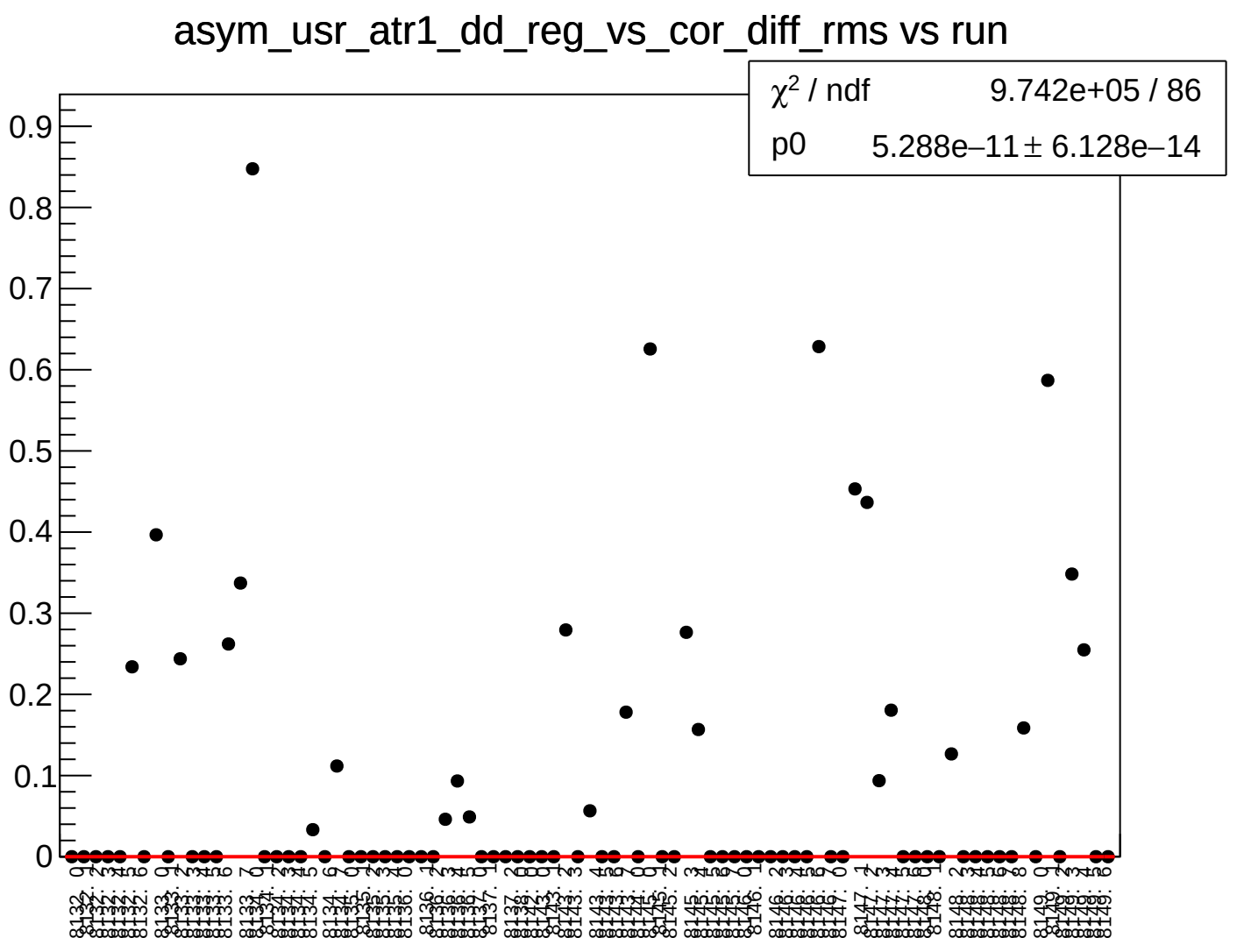

asym_usr_atr1_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.523e+05 / 86
p0 613.1 ± 0.5245
3000
2500
2000
1500
1000
500

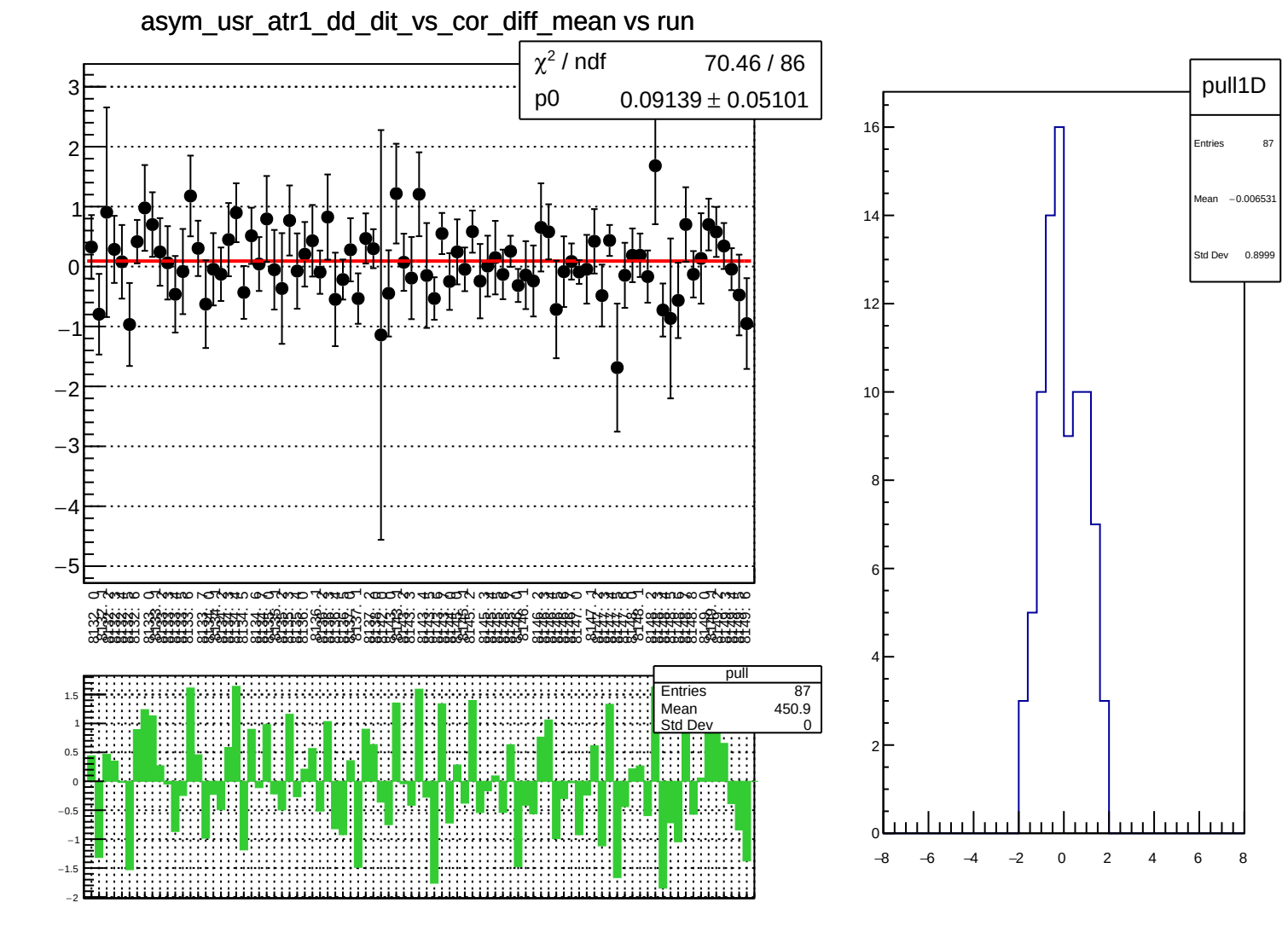

asym_usr_atr1_dd_mean vs run
χ² / ndf 83.42 / 86
p0 −1948 ± 1794
pull
Entries 87
Mean 2014
Std Dev 0

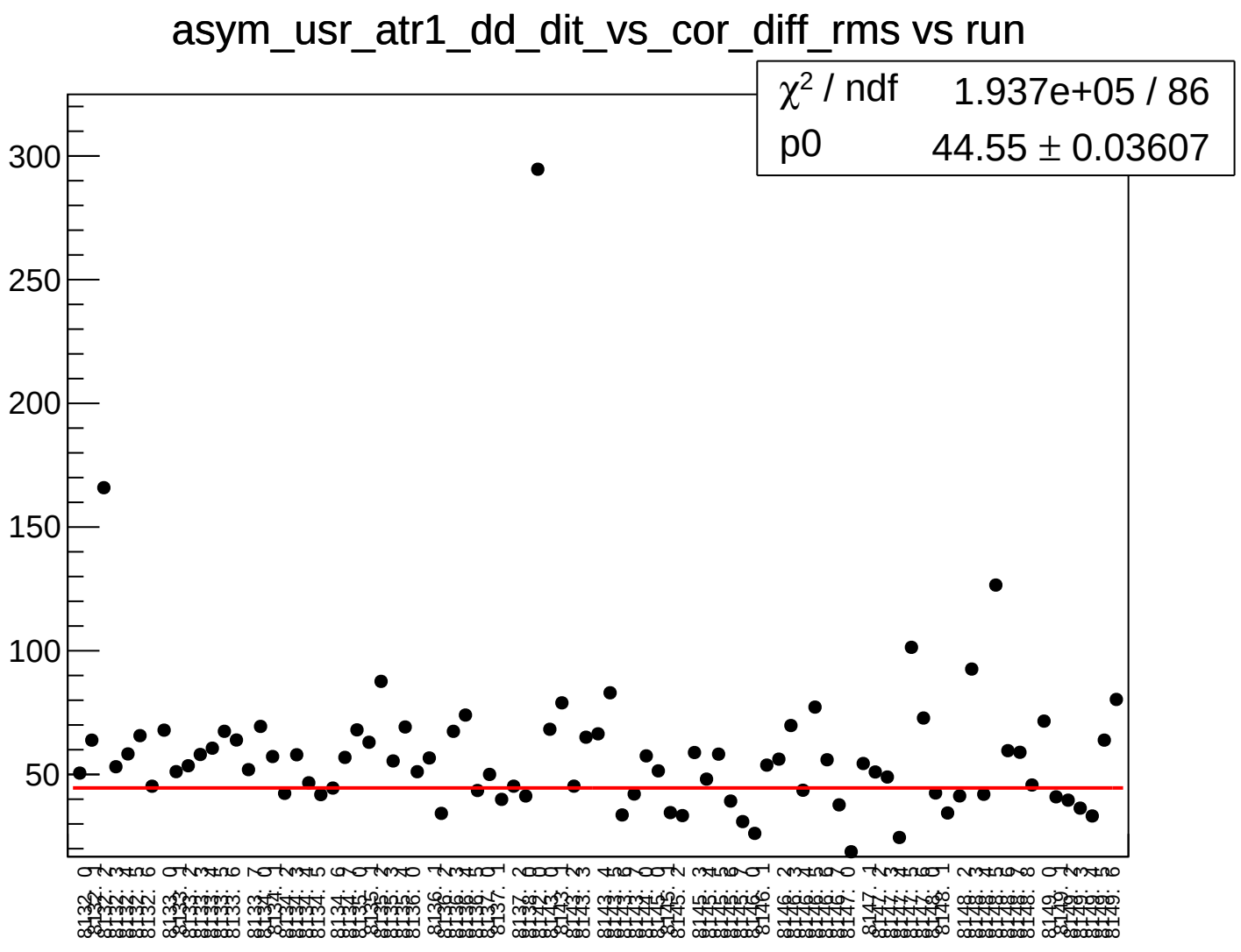

pull1D
Entries 87
Mean 0.0001796
Std Dev 0.9792

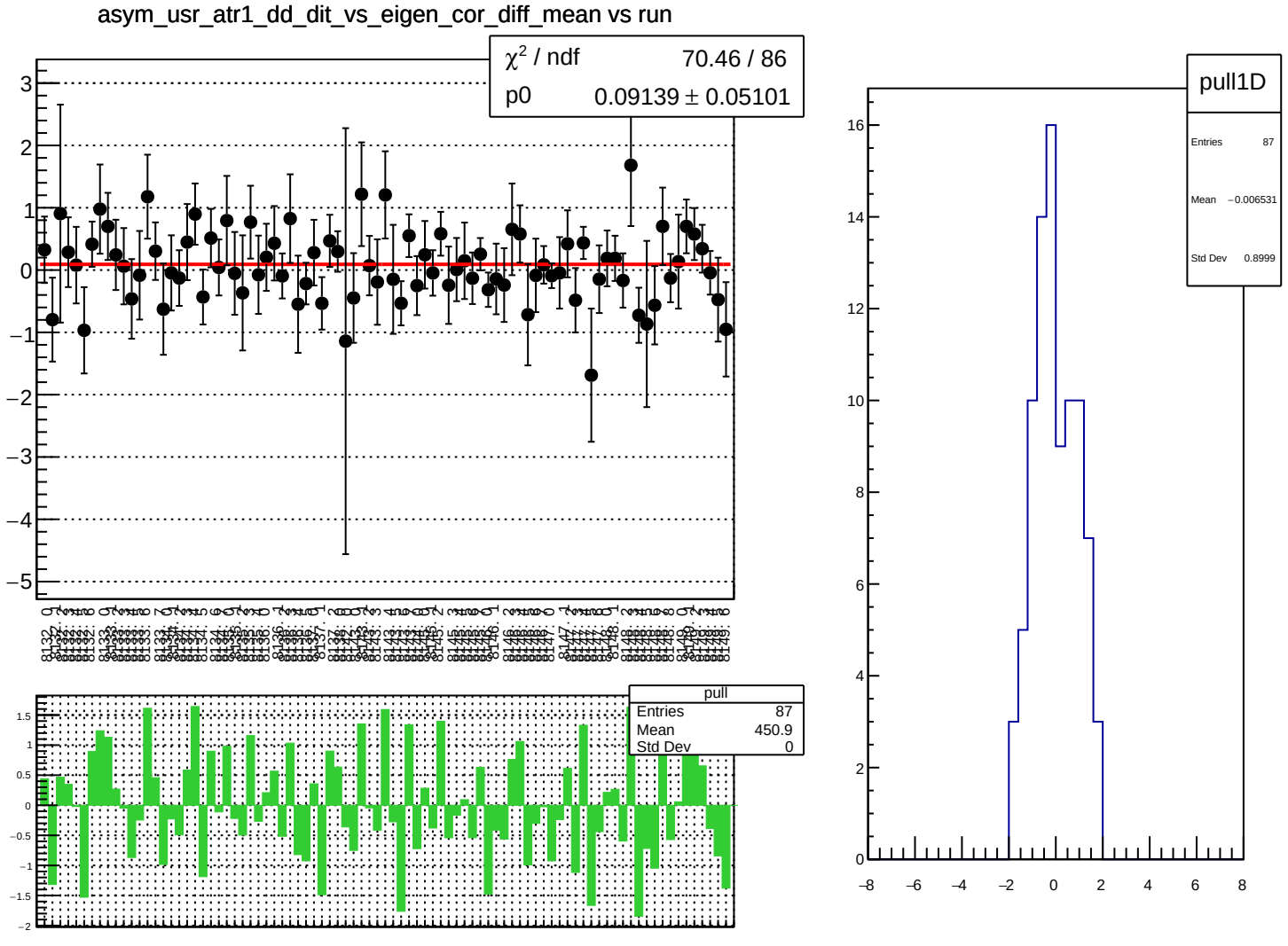

asym_usr_atr1_dd_rms vs run
χ² / ndf 7.322e+04 / 86
p0 1627 ± 1.268
3000
2800
2600
2400
2200
2000
1800
1600
1400

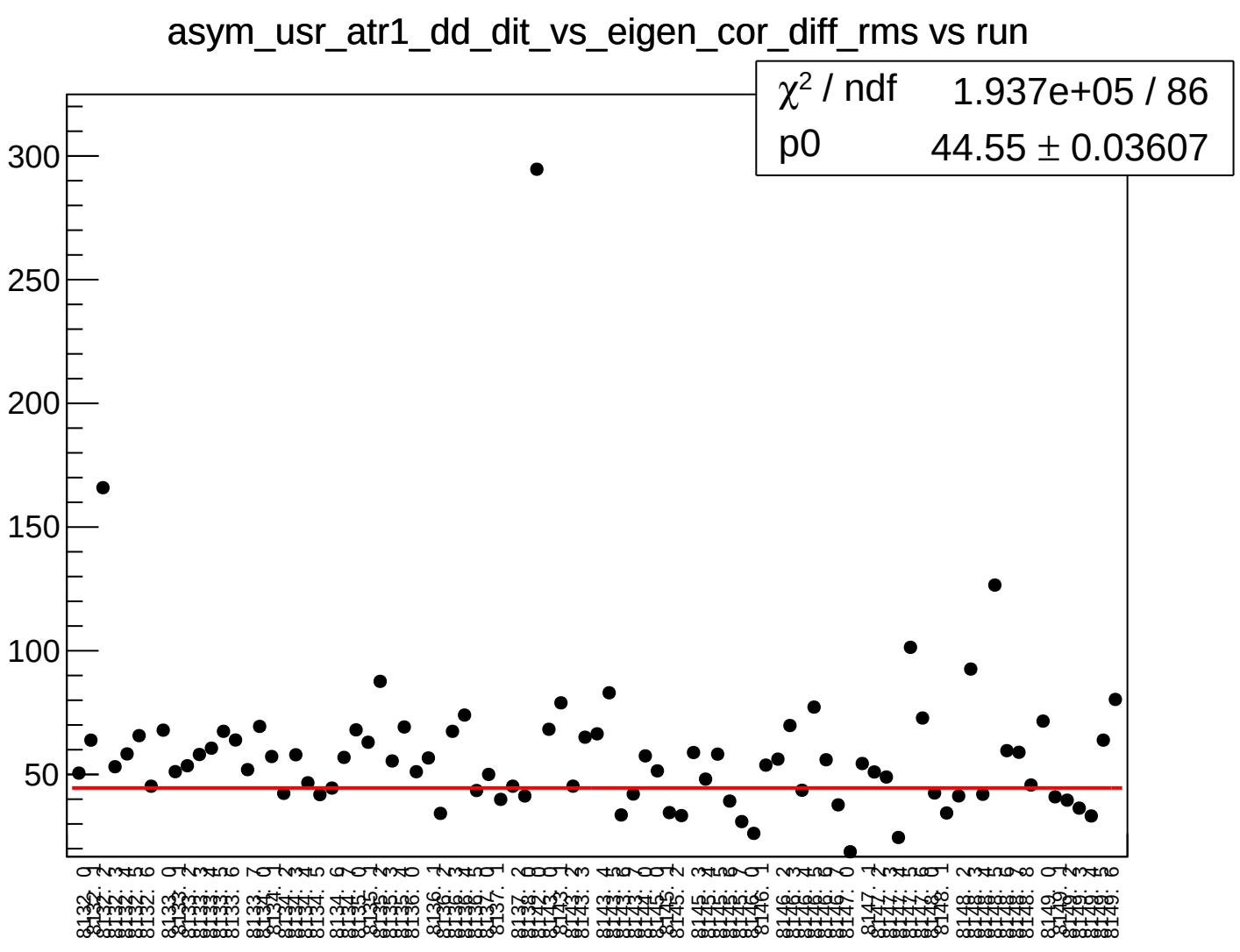

asym_usr_atr1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 79.93 / 86
p0 −5.225e−14 ± 8.666e−14
pull
Entries 87
Mean −72.55
Std Dev 0
pull1D
Entries 87
Mean 0.03979
Std Dev 0.9577

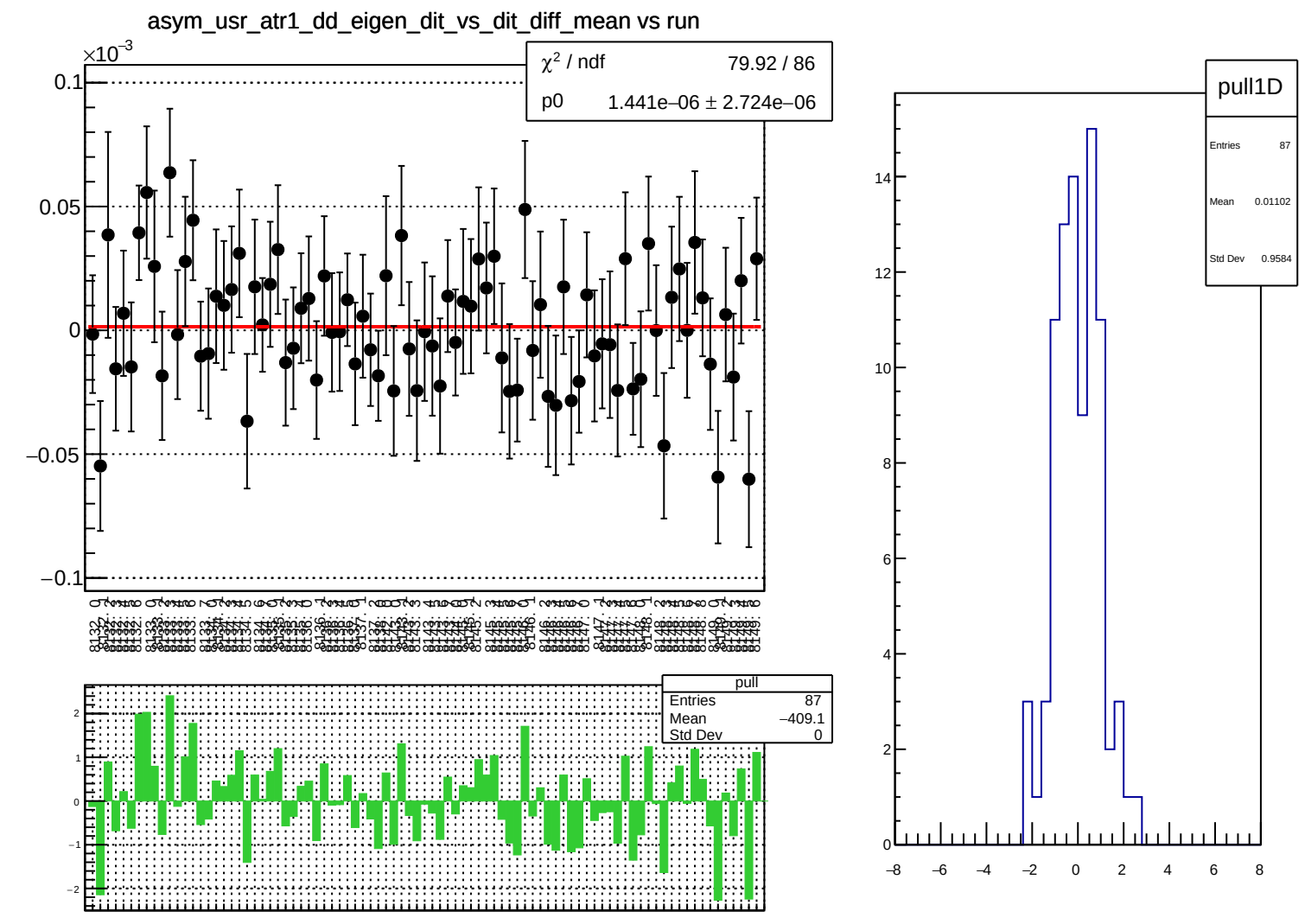

asym_usr_atr1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.742e+05 / 86
p0 5.288e−11 ± 6.128e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

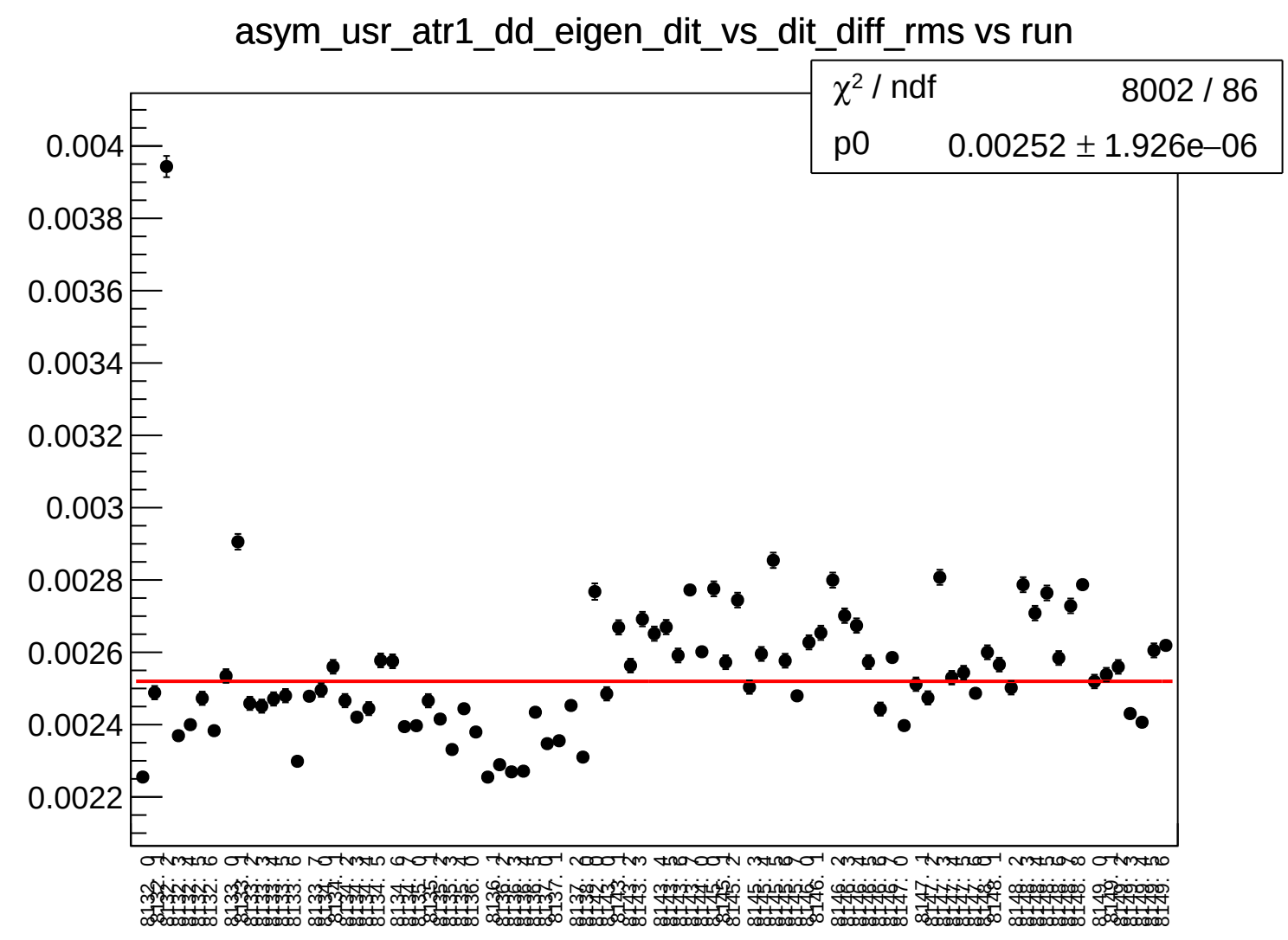

asym_usr_atr1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 70.46 / 86
p0 0.09139 ± 0.05101
pull
Entries 87
Mean 450.9
Std Dev 0
pull1D
Entries 87
Mean −0.006531
Std Dev 0.8999

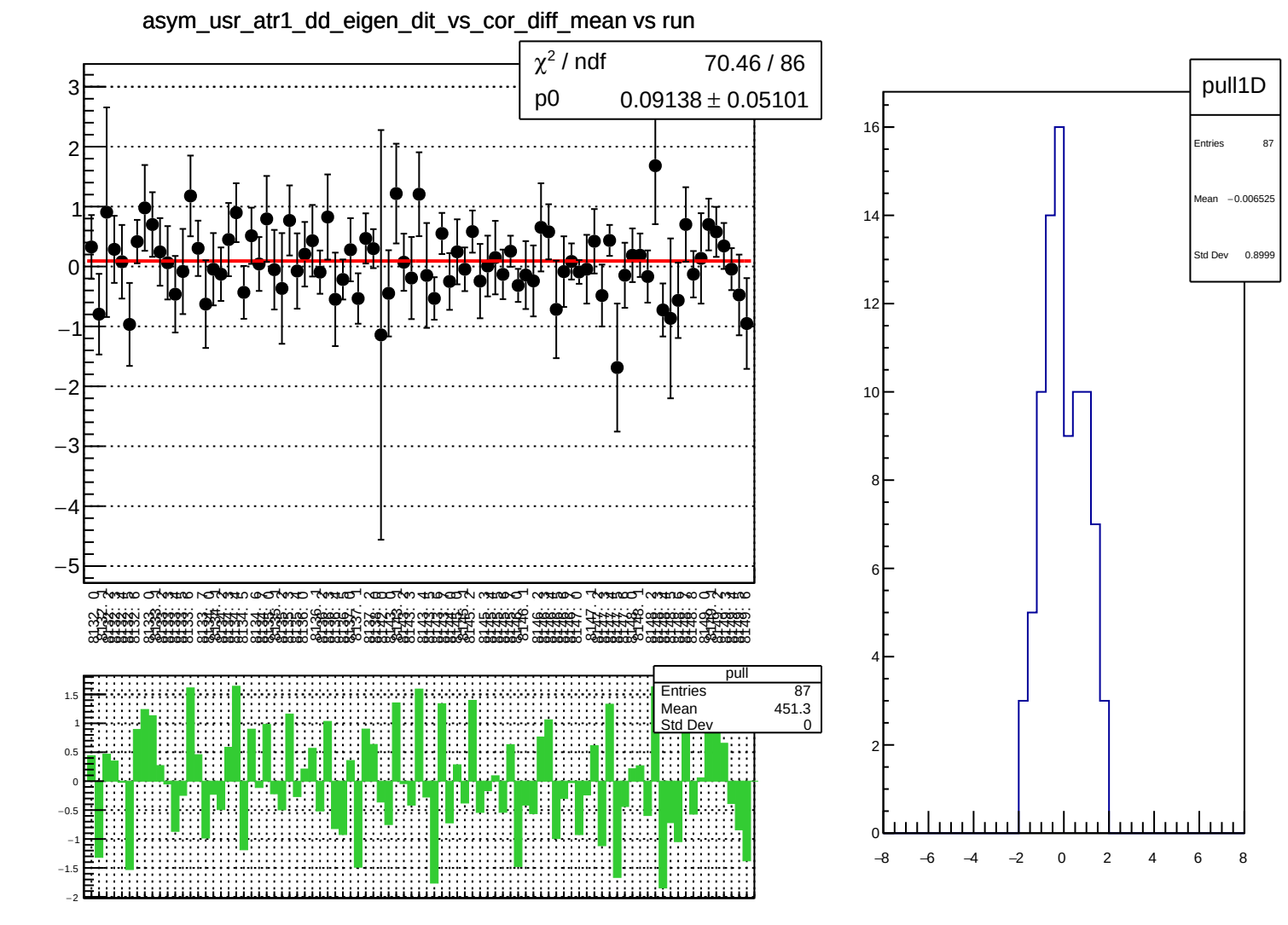

asym_usr_atr1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.937e+05 / 86
p0 44.55 ± 0.03607
300
250
200
150
100
50

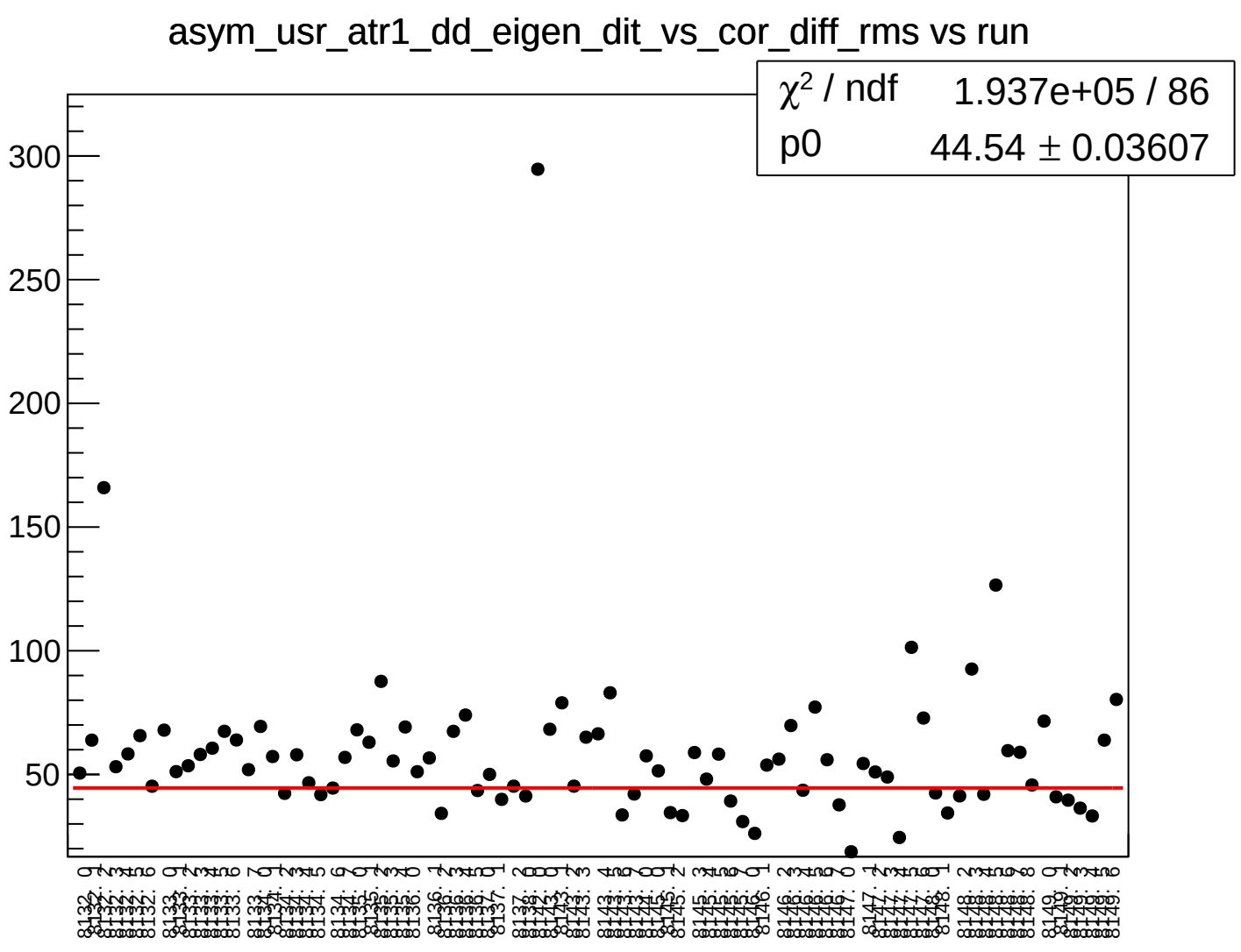

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.46 / 86
p0 0.09139 ± 0.05101
pull
Entries 87
Mean 450.9
Std Dev 0
pull1D
Entries 87
Mean −0.006531
Std Dev 0.8999

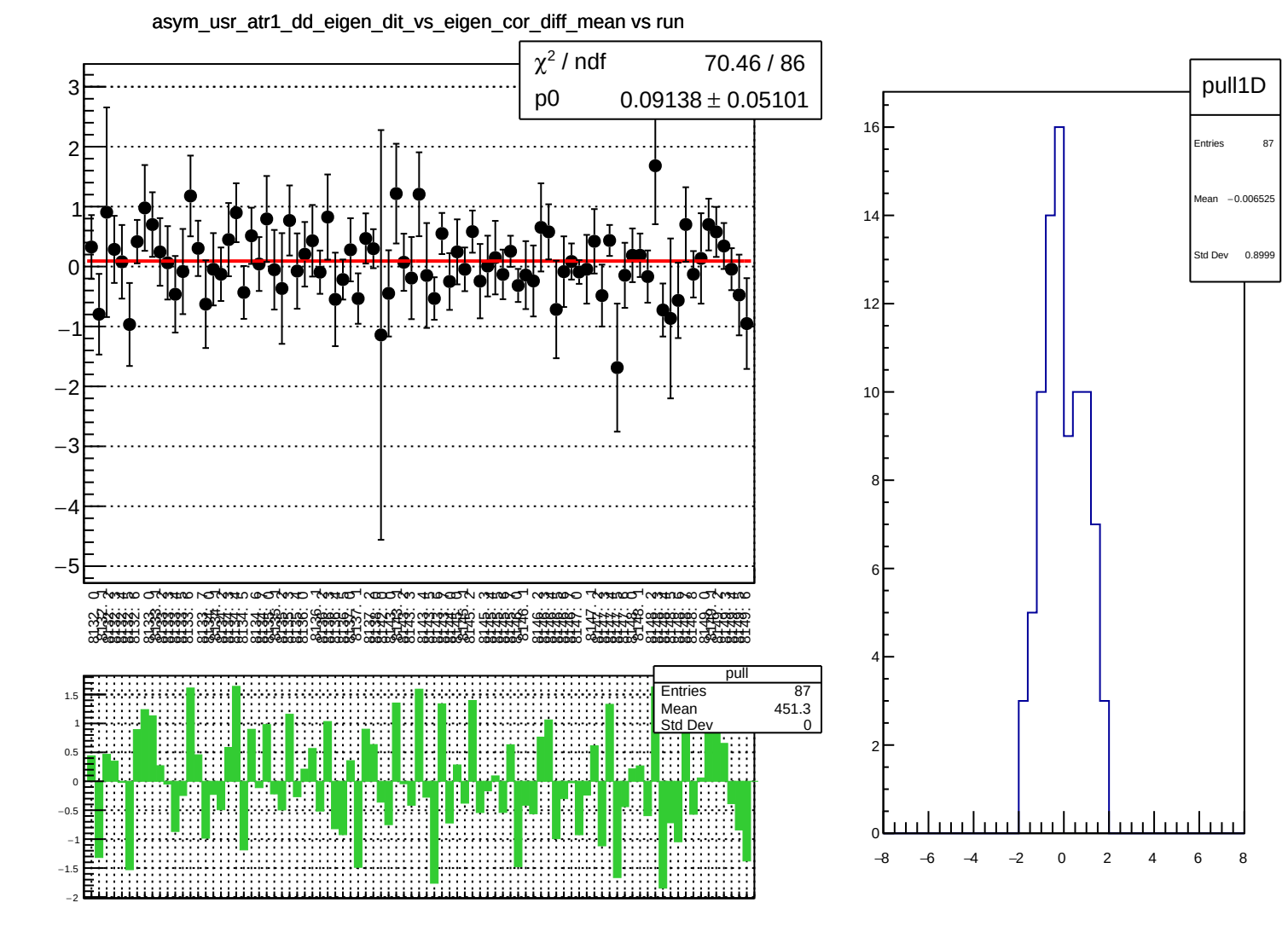

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.937e+05 / 86
p0 44.55 ± 0.03607
300
250
200
150
100
50

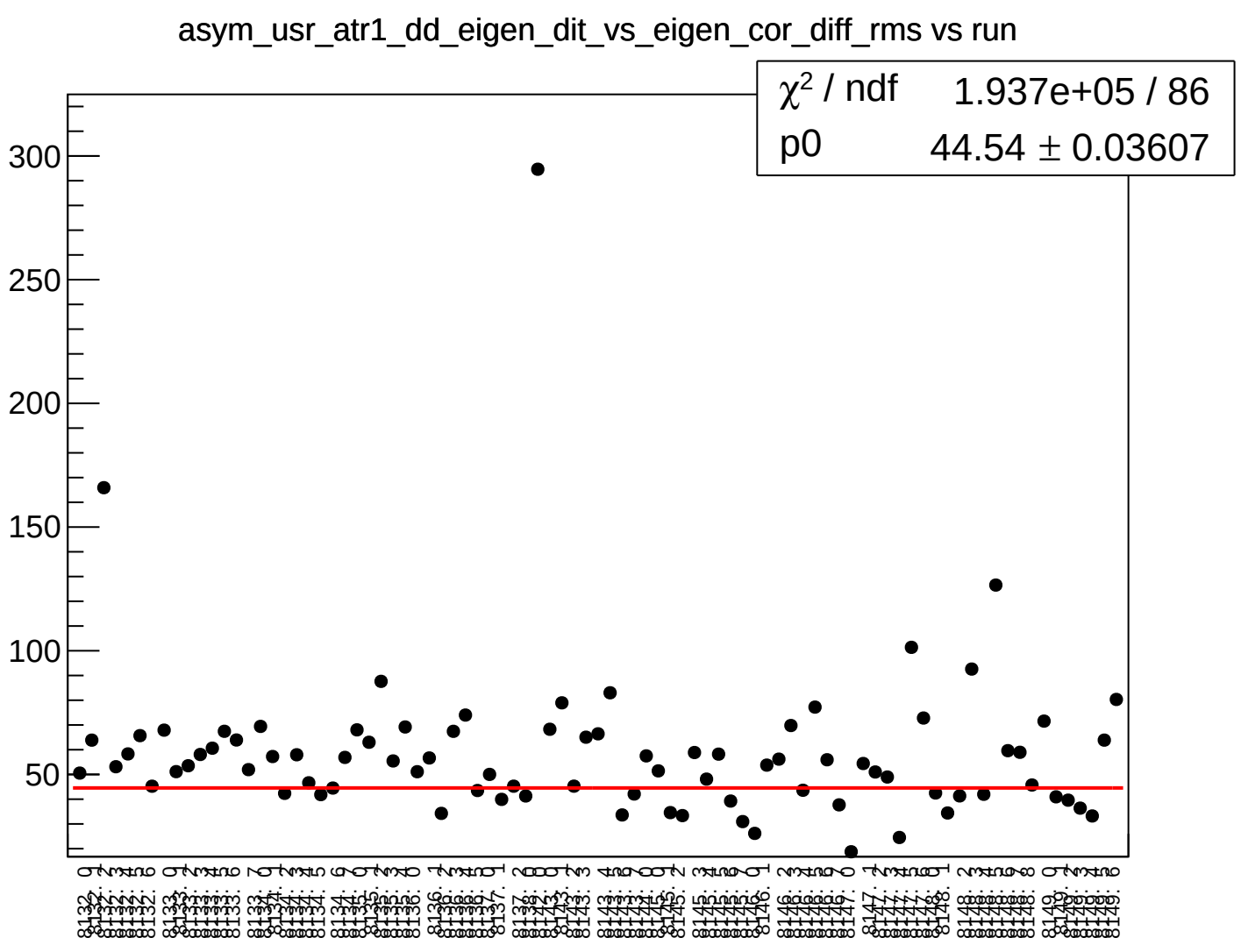

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 79.92 / 86
p0 1.441e−06 ± 2.724e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 87
Mean −409.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.01102
Std Dev 0.9584
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

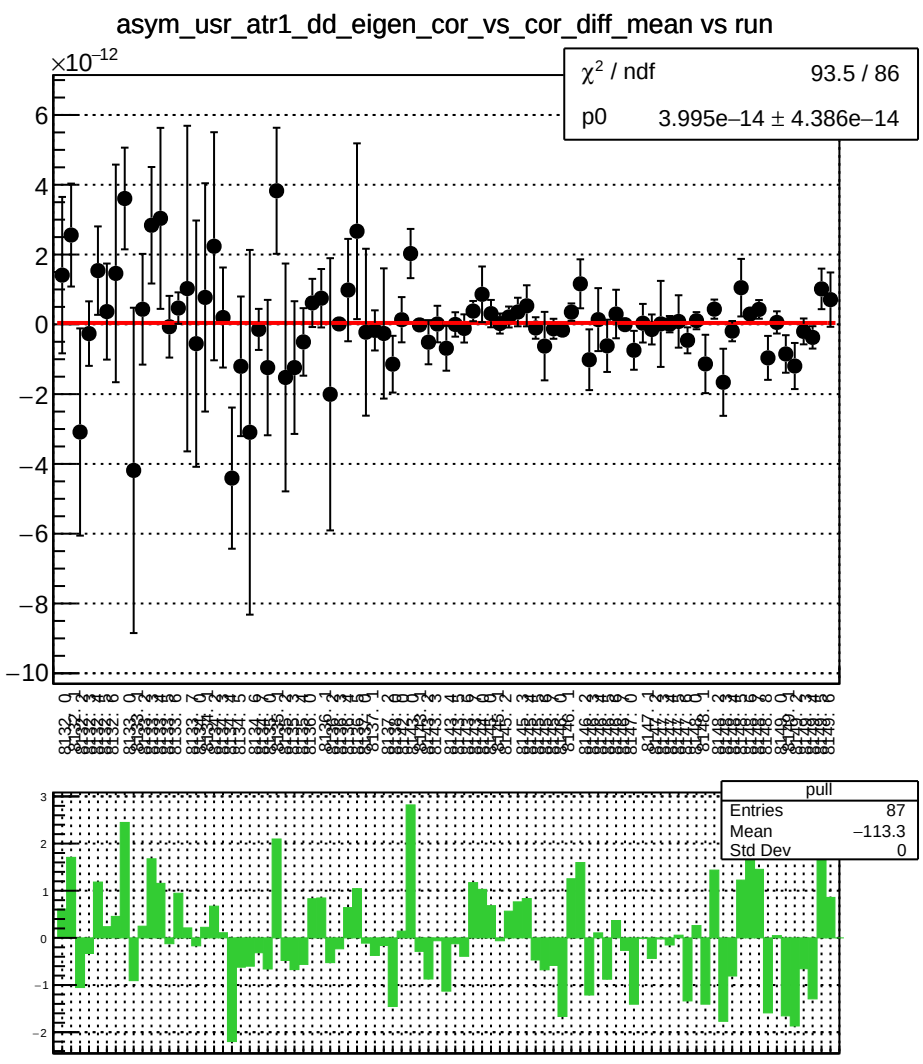

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8002 / 86
p0 0.00252 ± 1.926e−06
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022

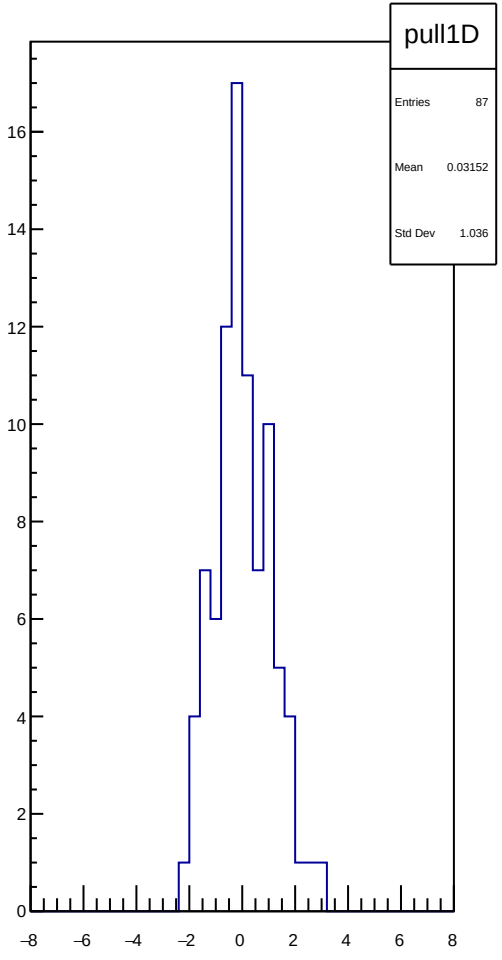

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 70.46 / 86
p0 0.09138 ± 0.05101
pull
Entries 87
Mean 451.3
Std Dev 0
pull1D
Entries 87
Mean −0.006525
Std Dev 0.8999

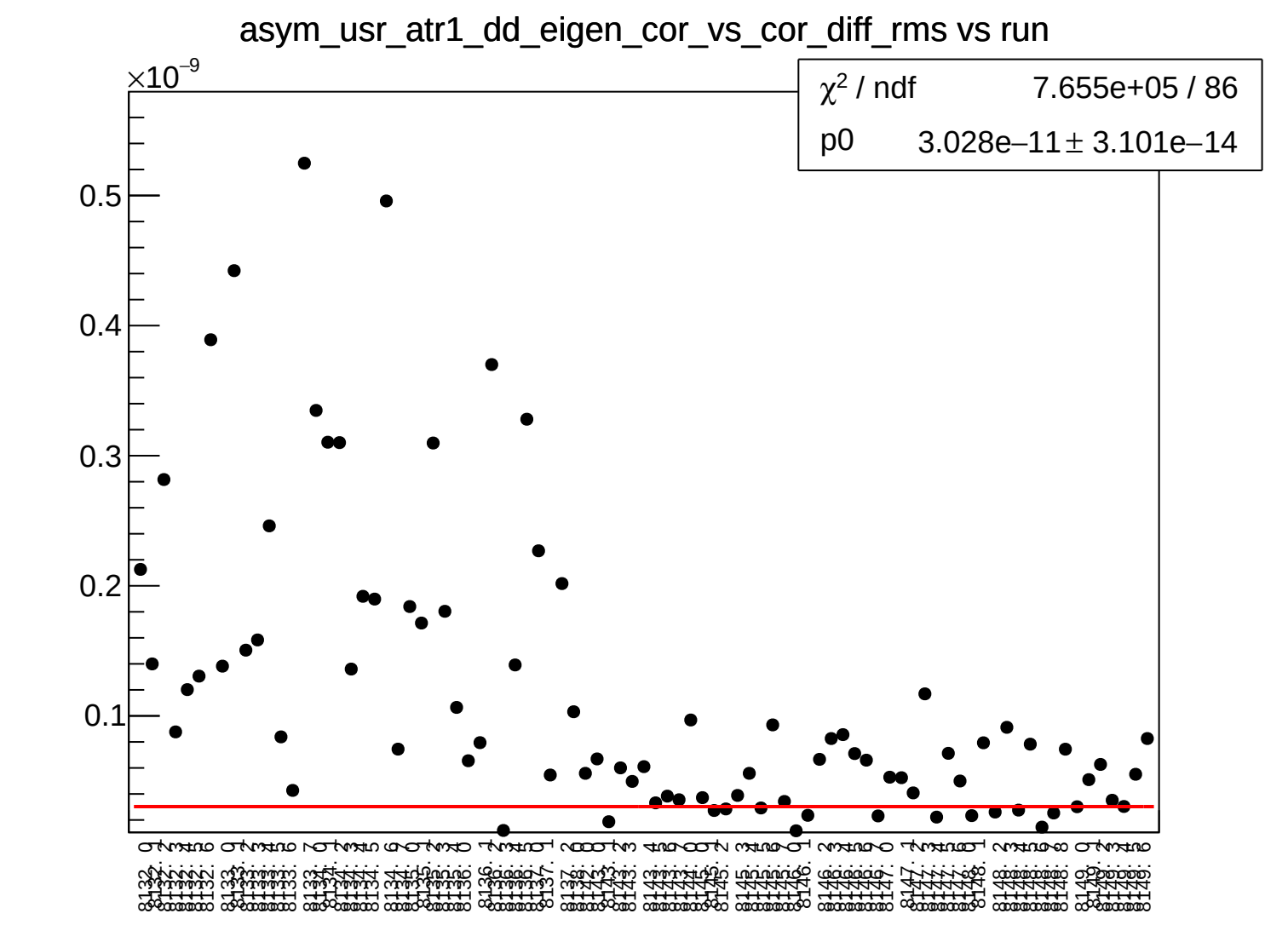

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.937e+05 / 86
p0 44.54 ± 0.03607
300
250
200
150
100
50

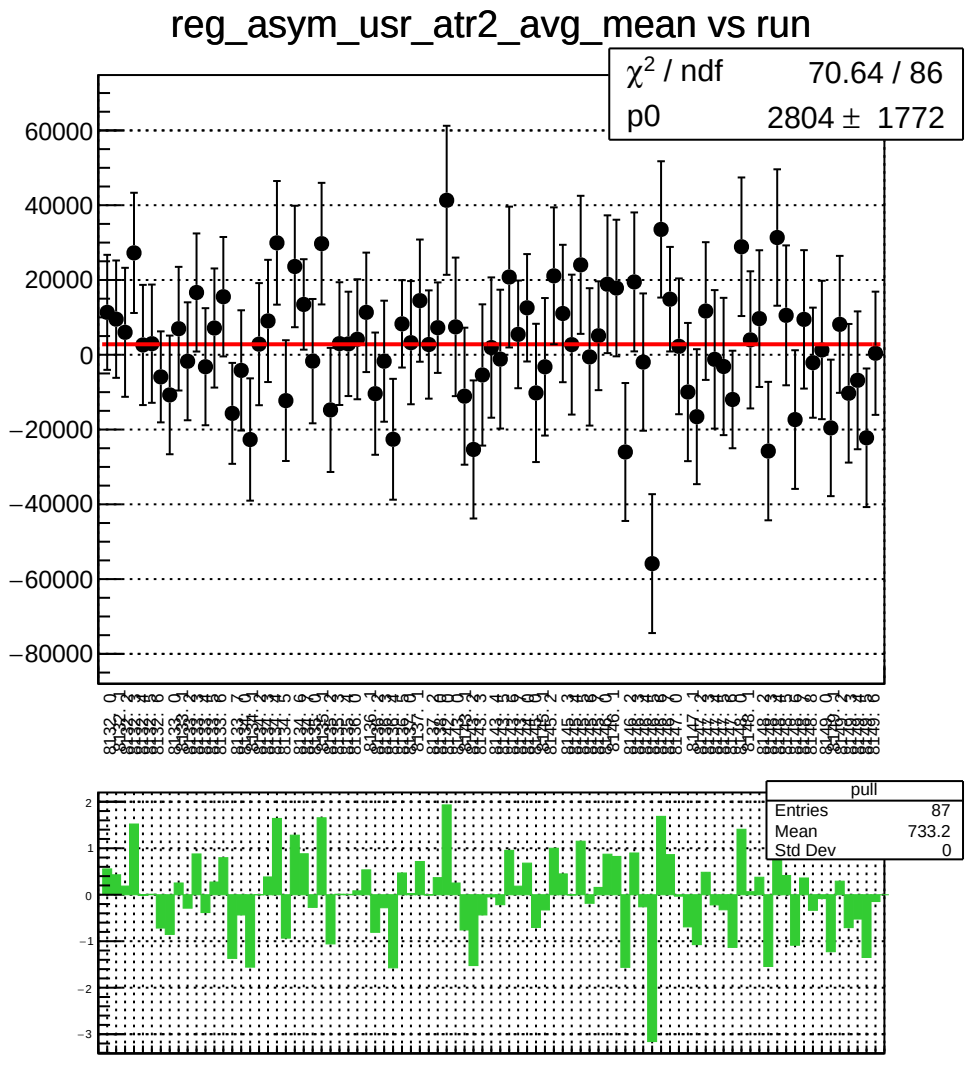

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.46 / 86
p0 0.09138 ± 0.05101
pull
Entries 87
Mean 451.3
Std Dev 0
pull1D
Entries 87
Mean −0.006525
Std Dev 0.8999

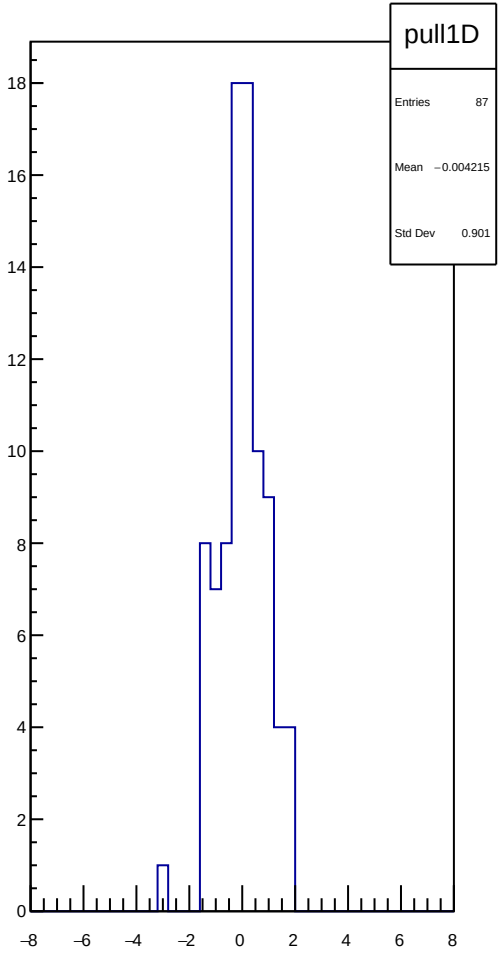

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.937e+05 / 86
p0 44.54 ± 0.03607
300
250
200
150
100
50

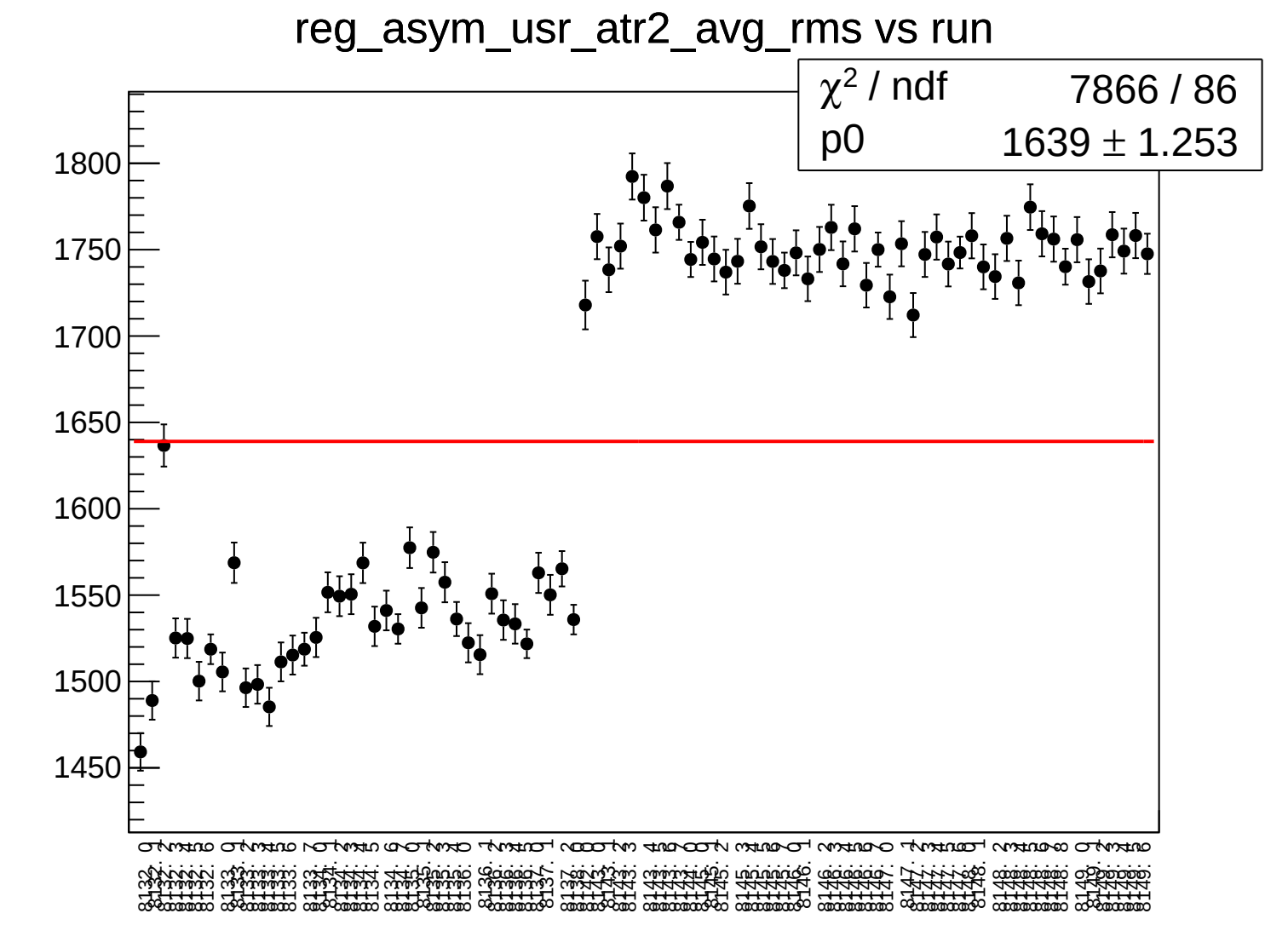

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.5 / 86
p0 3.995e−14 ± 4.386e−14
pull
Entries 87
Mean −113.3
Std Dev 0

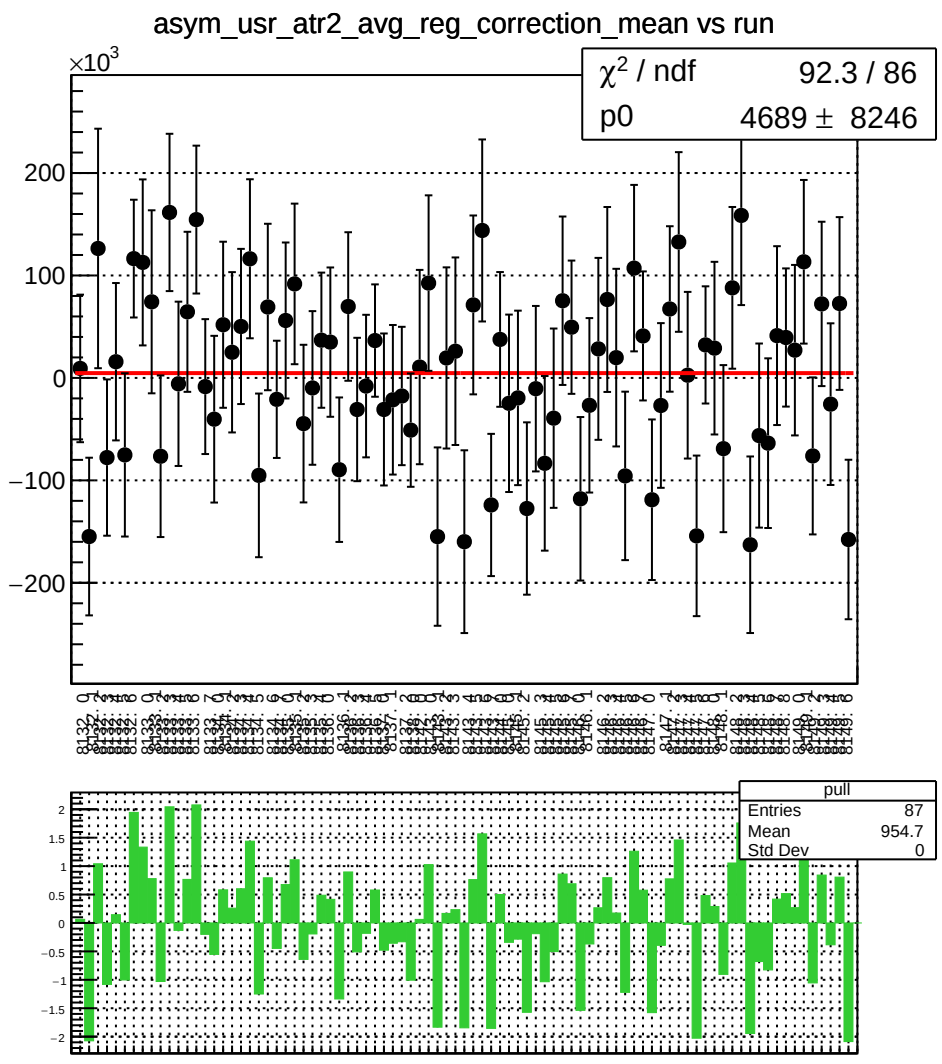

pull1D
Entries 87
Mean 0.03152
Std Dev 1.036

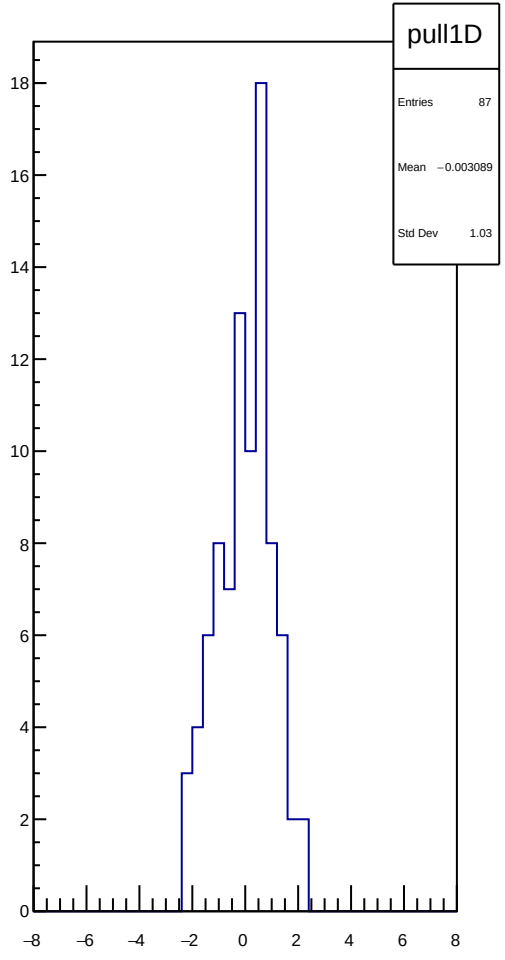

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.655e+05 / 86
p0 3.028e−11 ± 3.101e−14
0.5
0.4
0.3
0.2
0.1

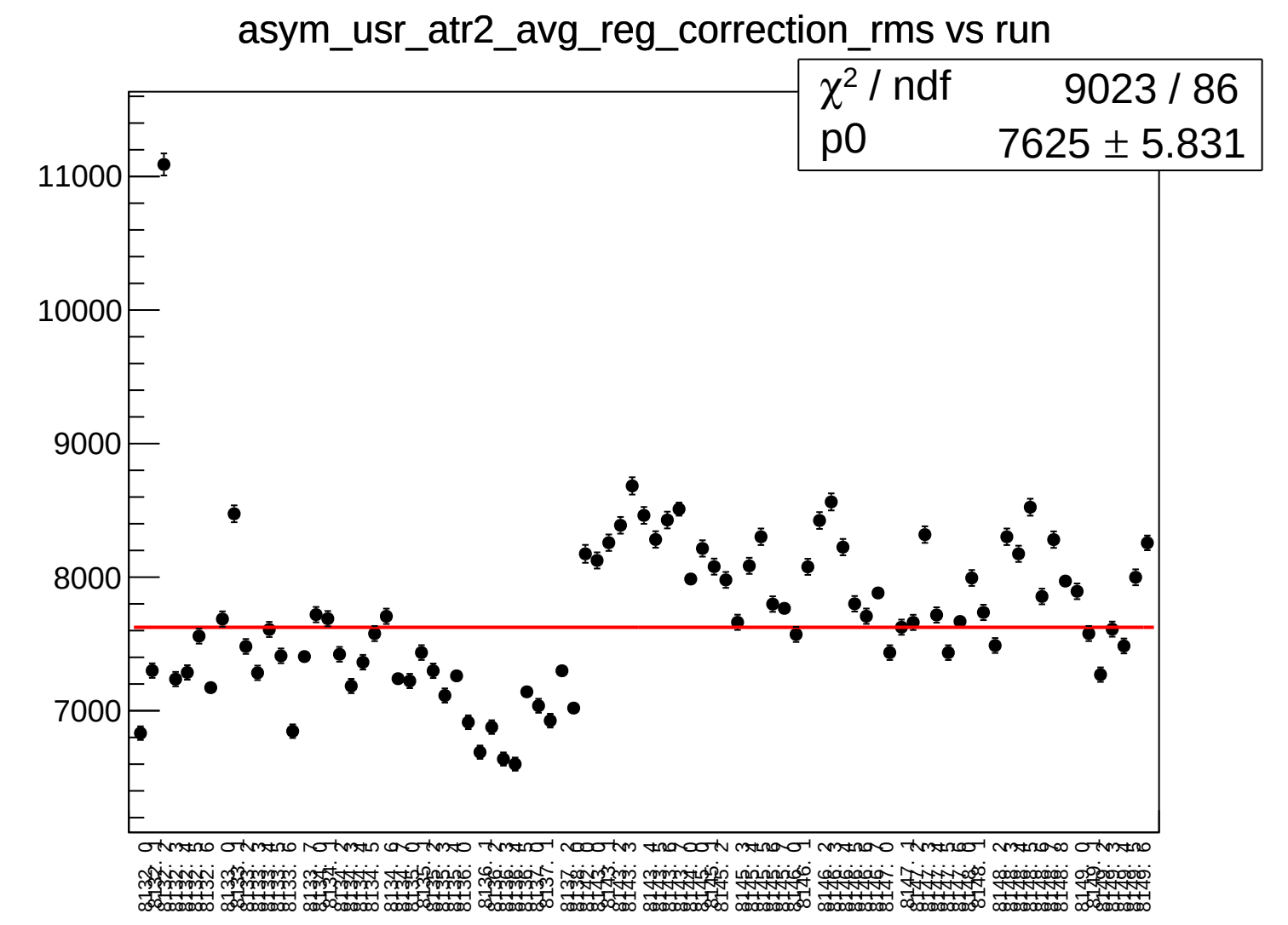

reg_asym_usr_atr2_avg_mean vs run
χ² / ndf 70.64 / 86
p0 2804 ± 1772
pull
Entries 87
Mean 733.2
Std Dev 0

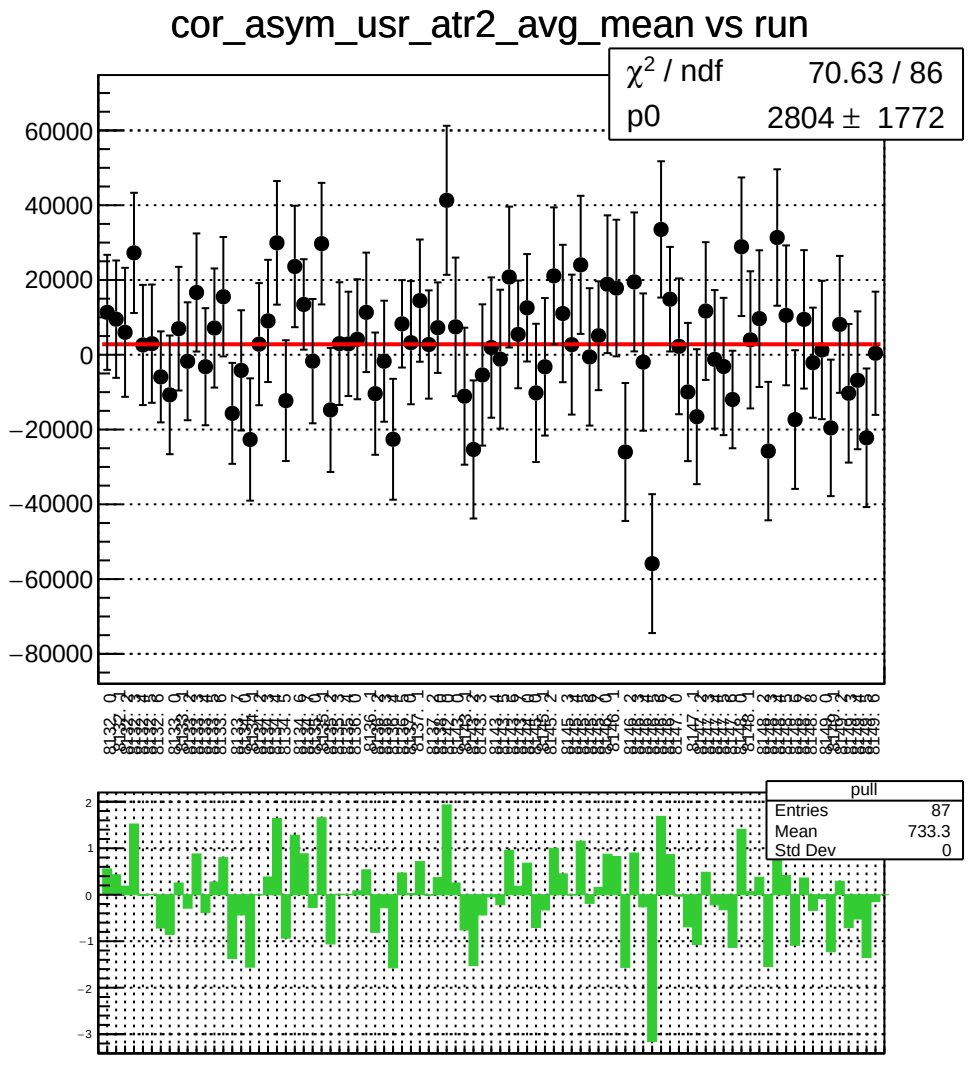

pull1D
Entries 87
Mean −0.004215
Std Dev 0.901

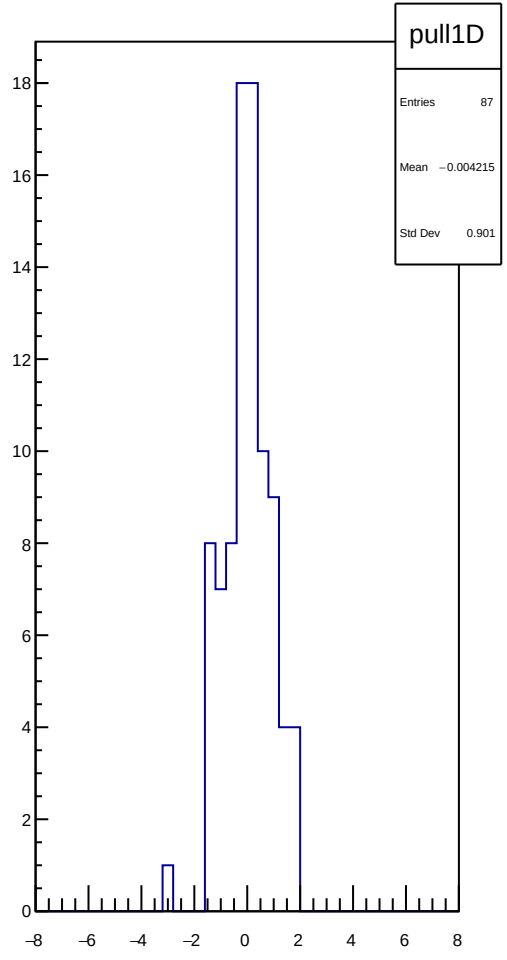

reg_asym_usr_atr2_avg_rms vs run
χ² / ndf 7866 / 86
p0 1639 ± 1.253
1800
1750
1700
1650
1600
1550
1500
1450

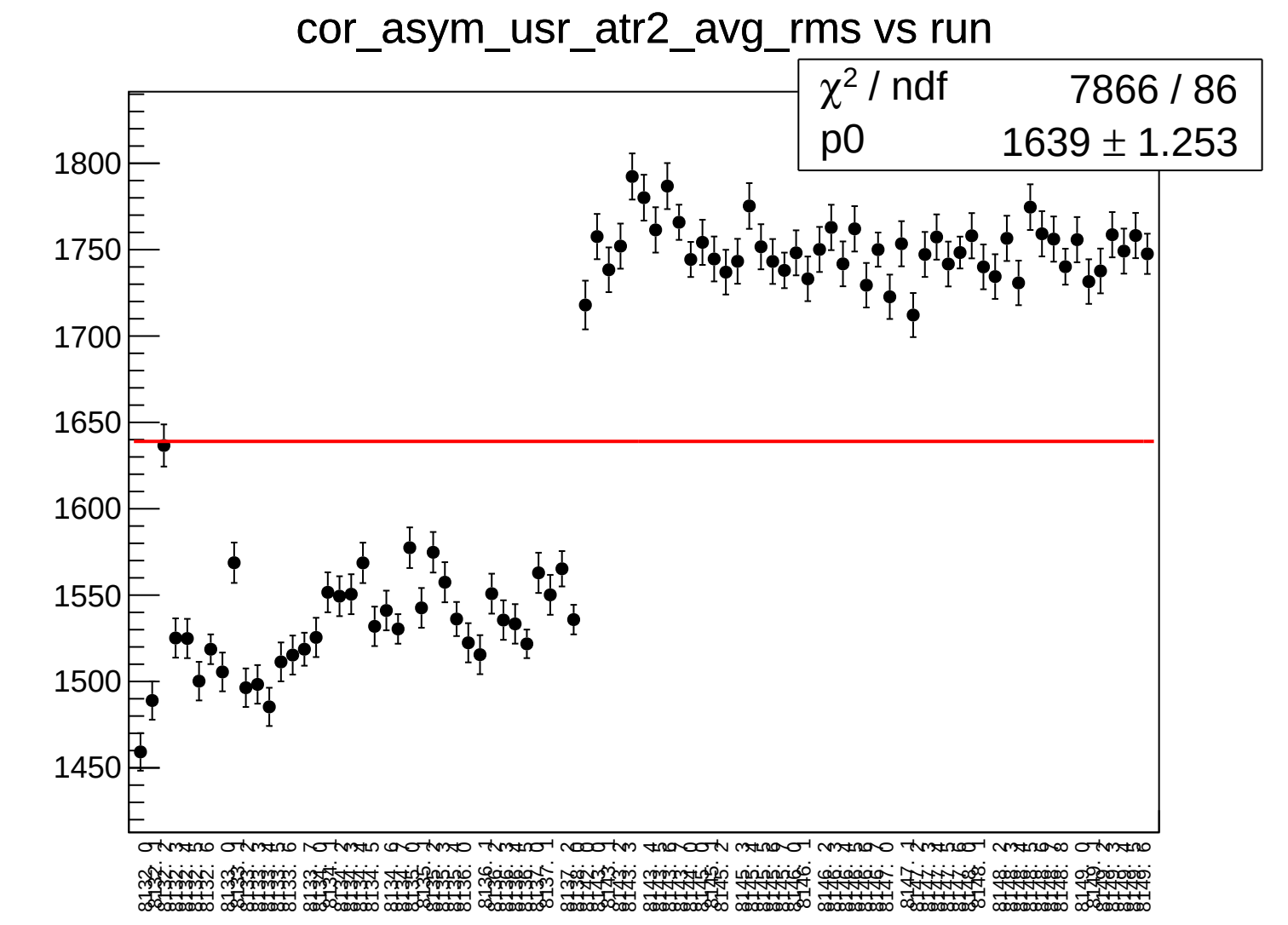

asym_usr_atr2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 92.3 / 86
p0 4689 ± 8246
200
100
0
−100
−200
pull
Entries 87
Mean 954.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

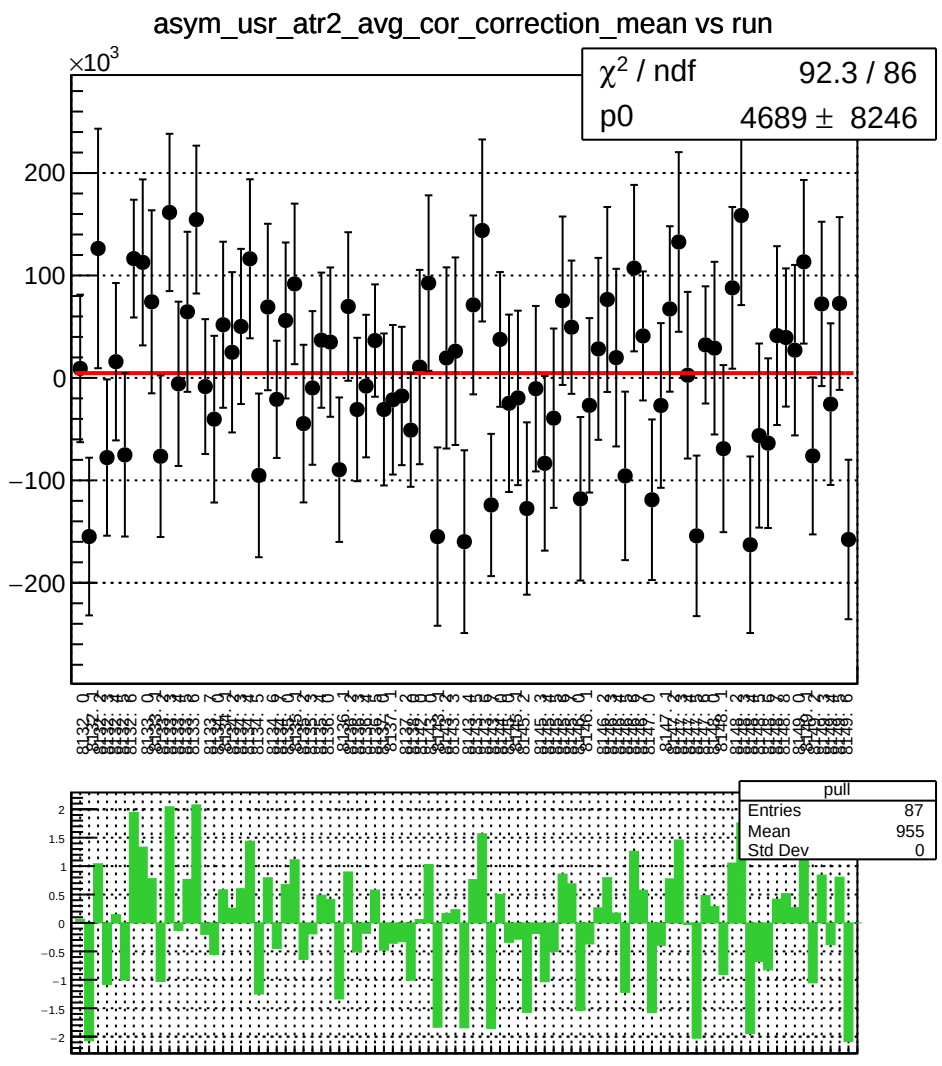

pull1D
Entries 87
Mean −0.003089
Std Dev 1.03
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

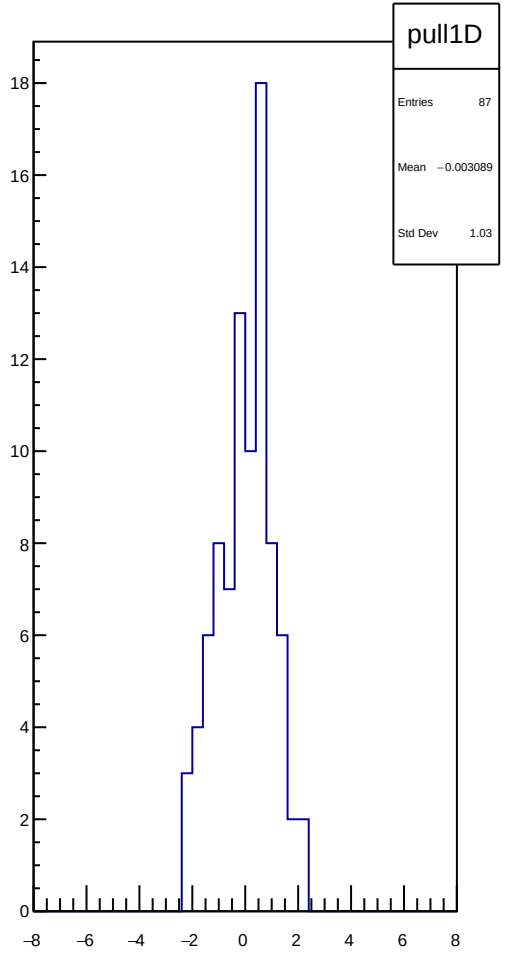

asym_usr_atr2_avg_reg_correction_rms vs run
χ² / ndf 9023 / 86
p0 7625 ± 5.831
11000
10000
9000
8000
7000

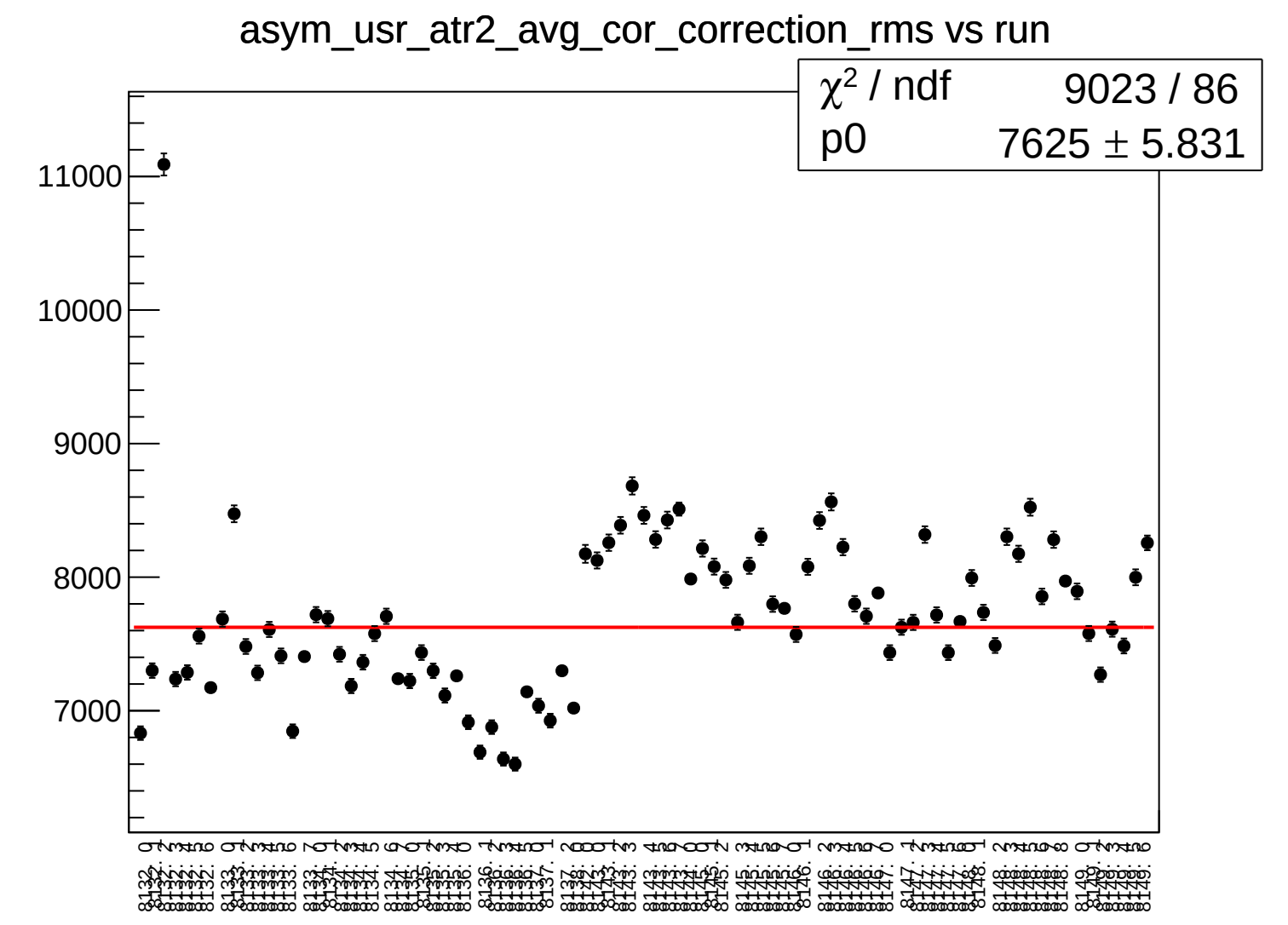

cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 70.63 / 86
p0 2804 ± 1772
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean 733.3
Std Dev 0
2
1
0
−1
−2
−3

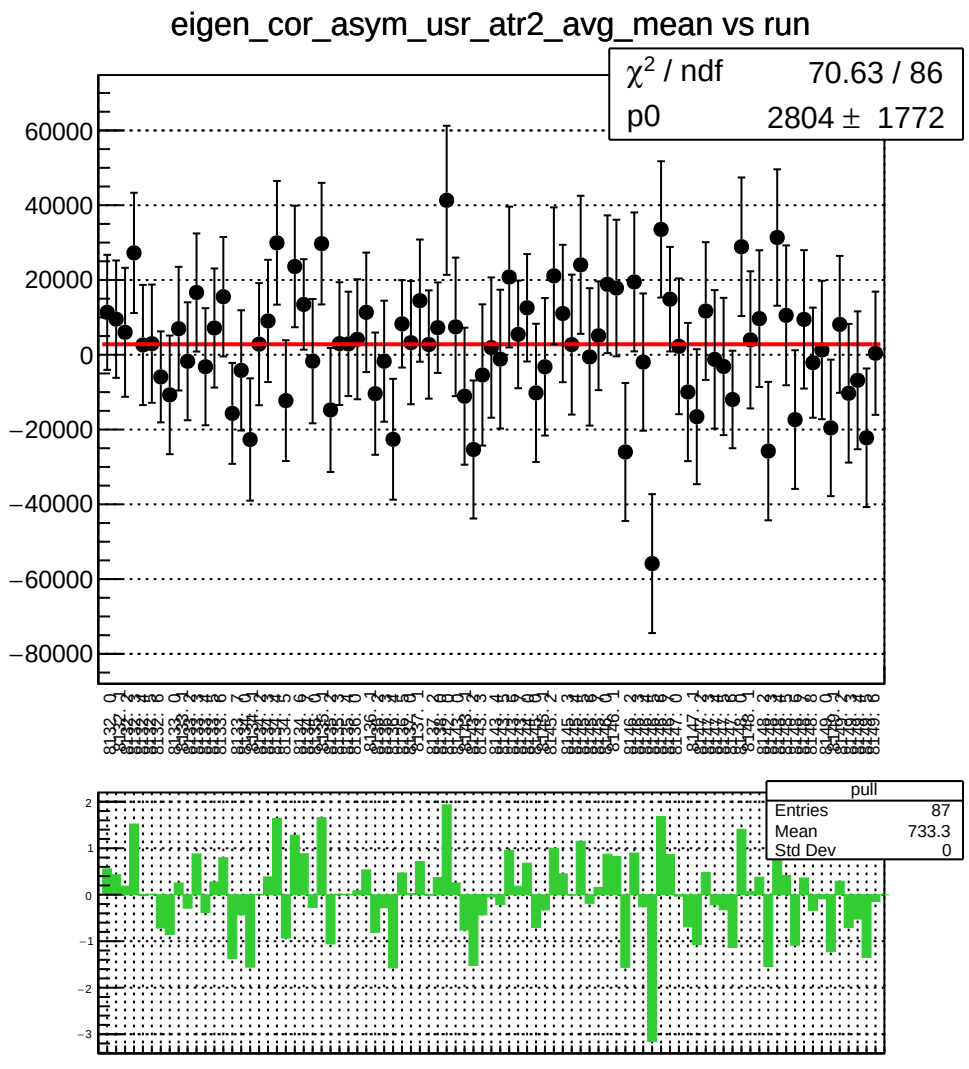

pull1D
Entries 87
Mean −0.004215
Std Dev 0.901
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

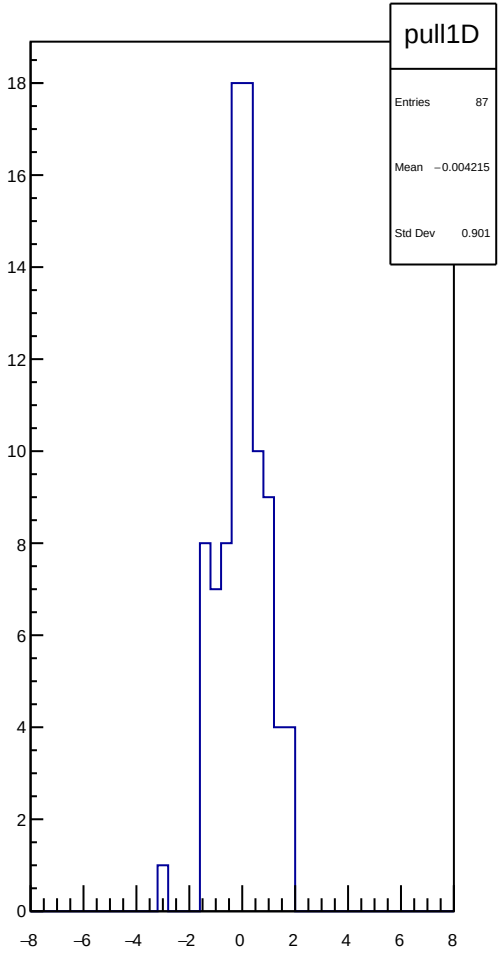

cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 7866 / 86
p0 1639 ± 1.253
1800
1750
1700
1650
1600
1550
1500
1450

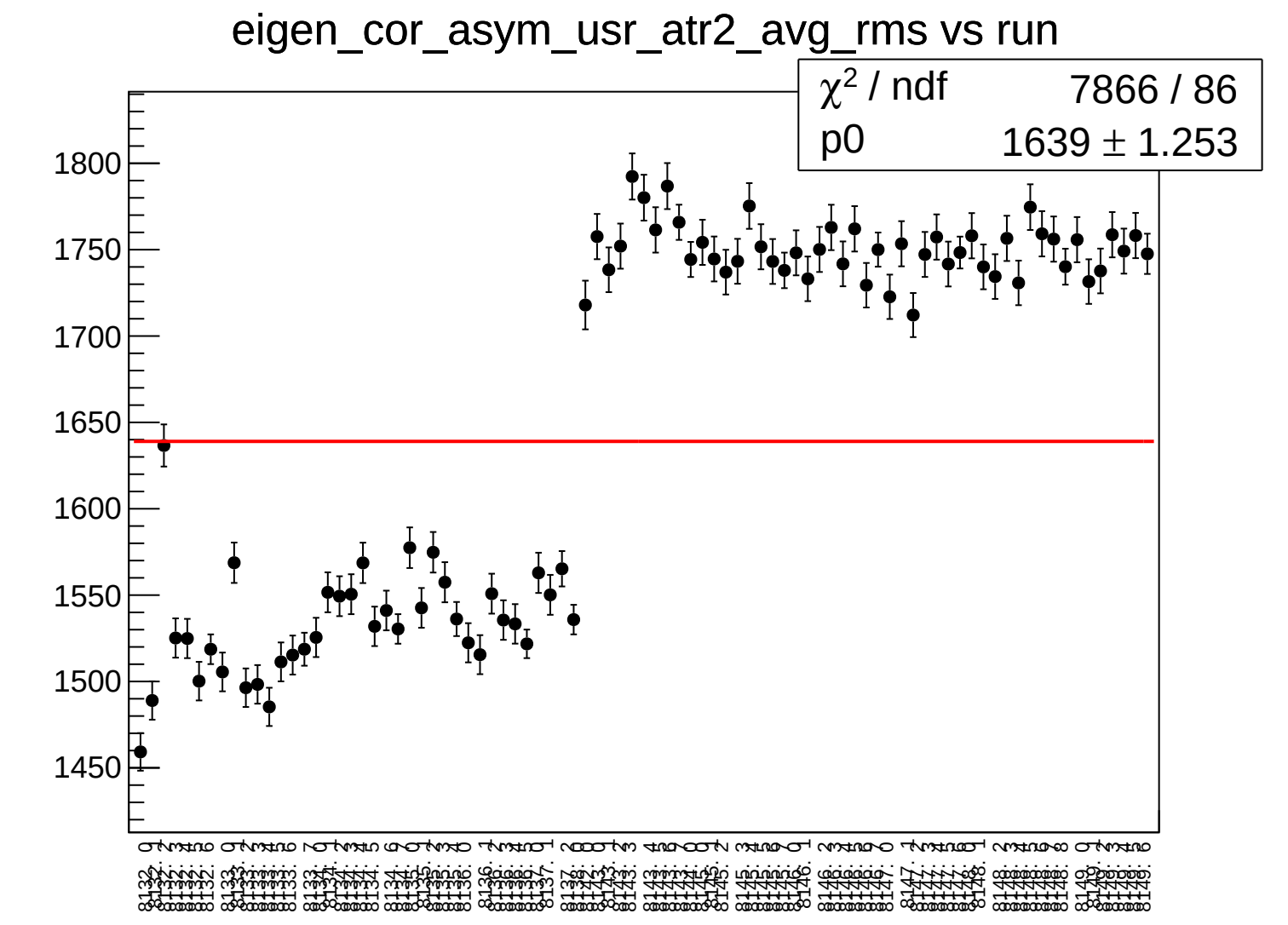

asym_usr_atr2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 92.3 / 86
p0 4689 ± 8246
200
100
0
−100
−200
pull
Entries 87
Mean 955
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

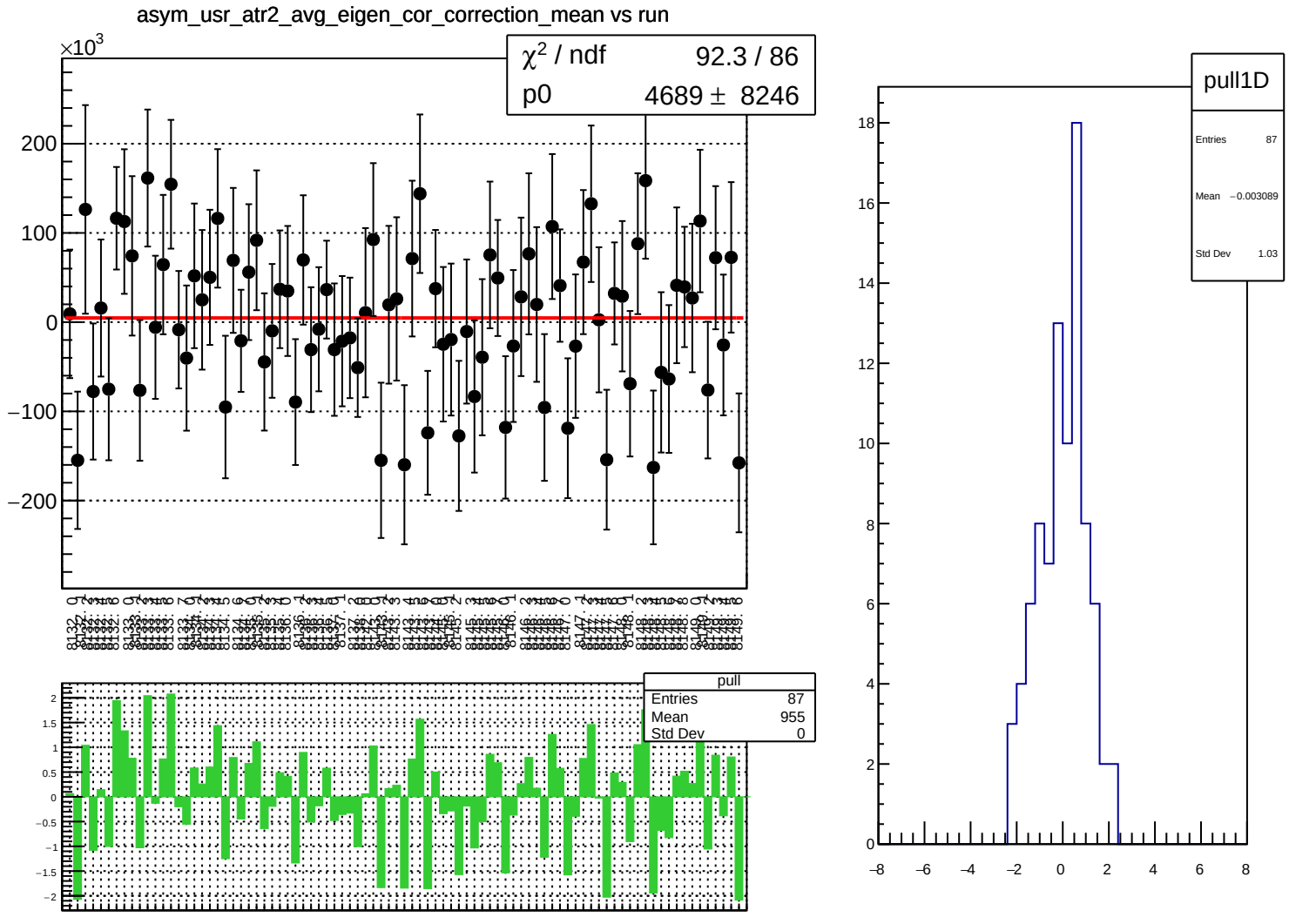

pull1D
Entries 87
Mean −0.003089
Std Dev 1.03
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

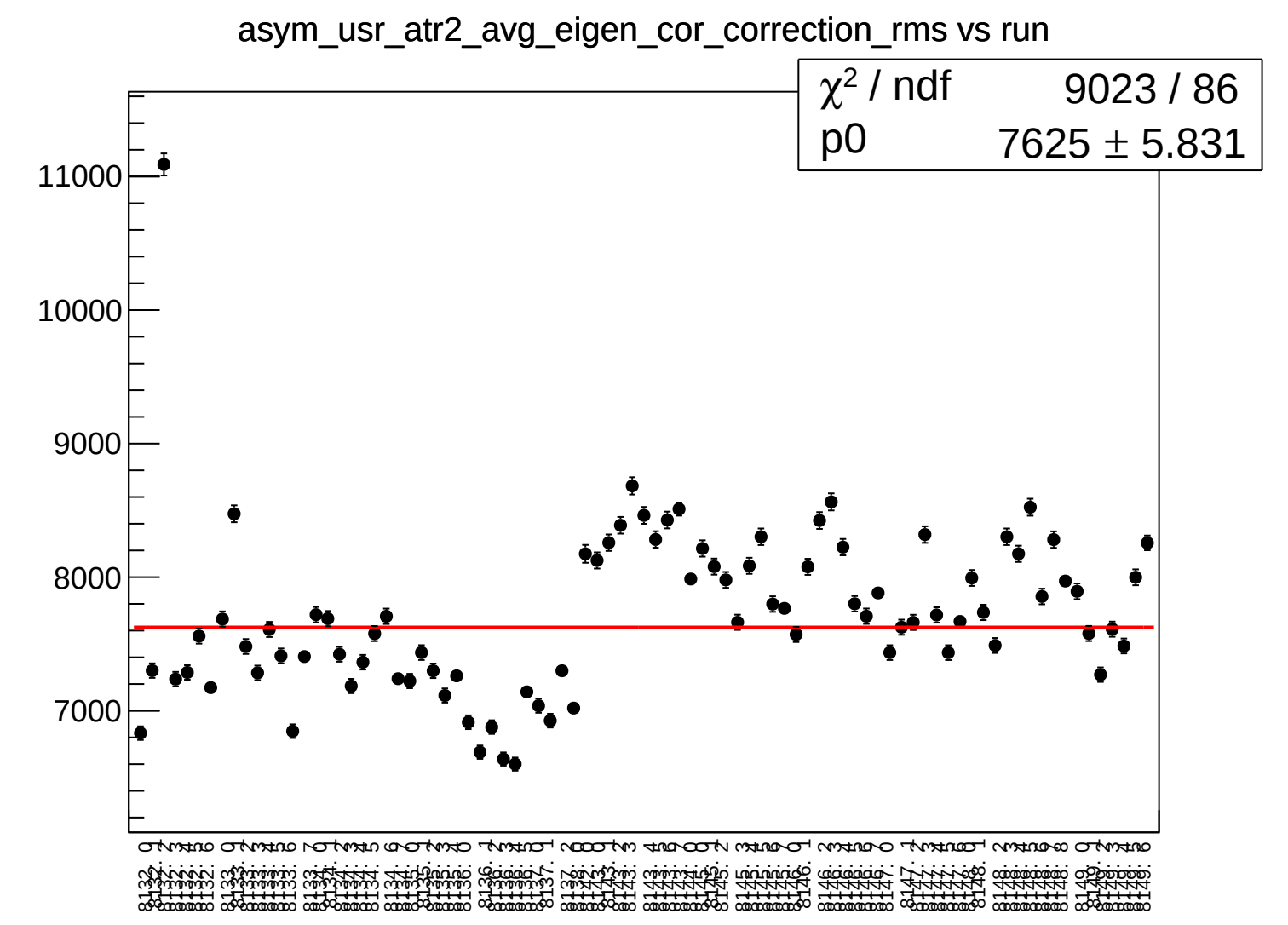

asym_usr_atr2_avg_cor_correction_rms vs run
χ² / ndf 9023 / 86
p0 7625 ± 5.831
11000
10000
9000
8000
7000

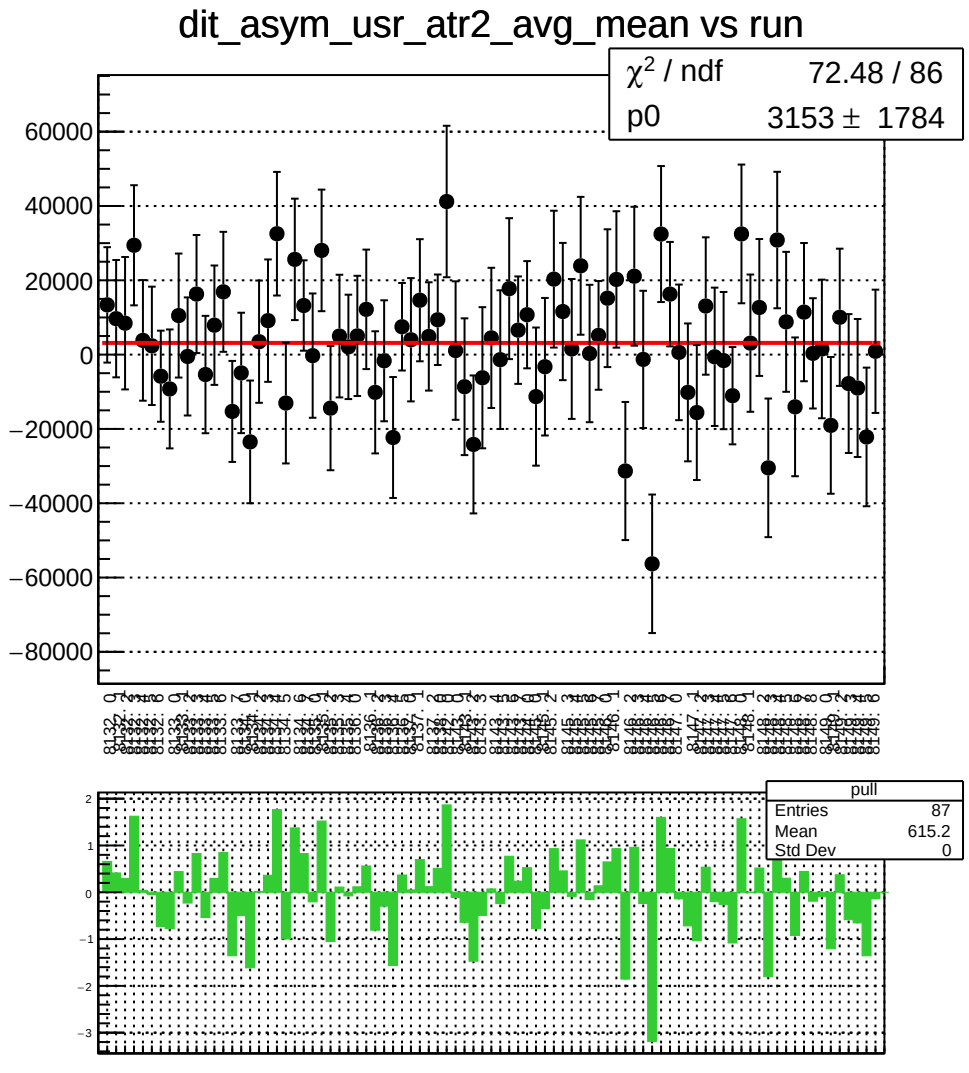

eigen_cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 70.63 / 86
p0 2804 ± 1772
pull
Entries 87
Mean 733.3
Std Dev 0

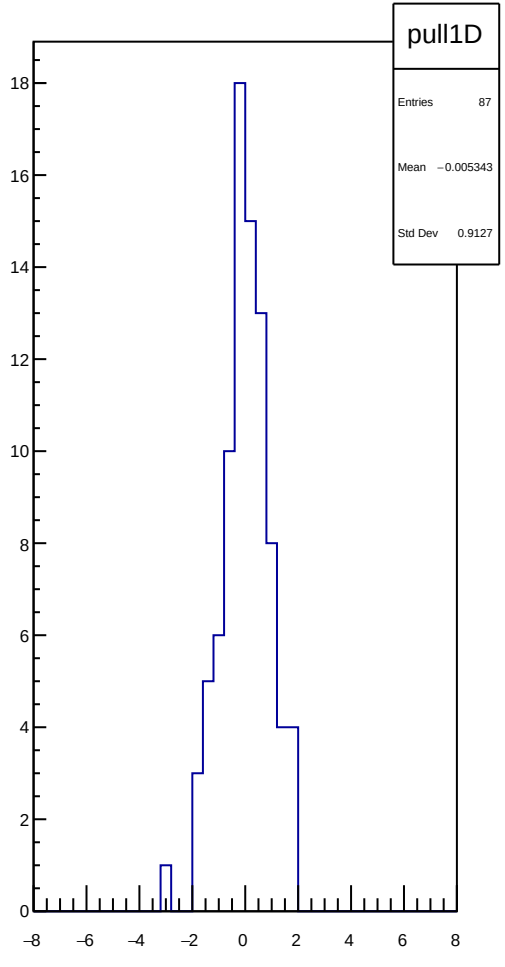

pull1D
Entries 87
Mean −0.004215
Std Dev 0.901

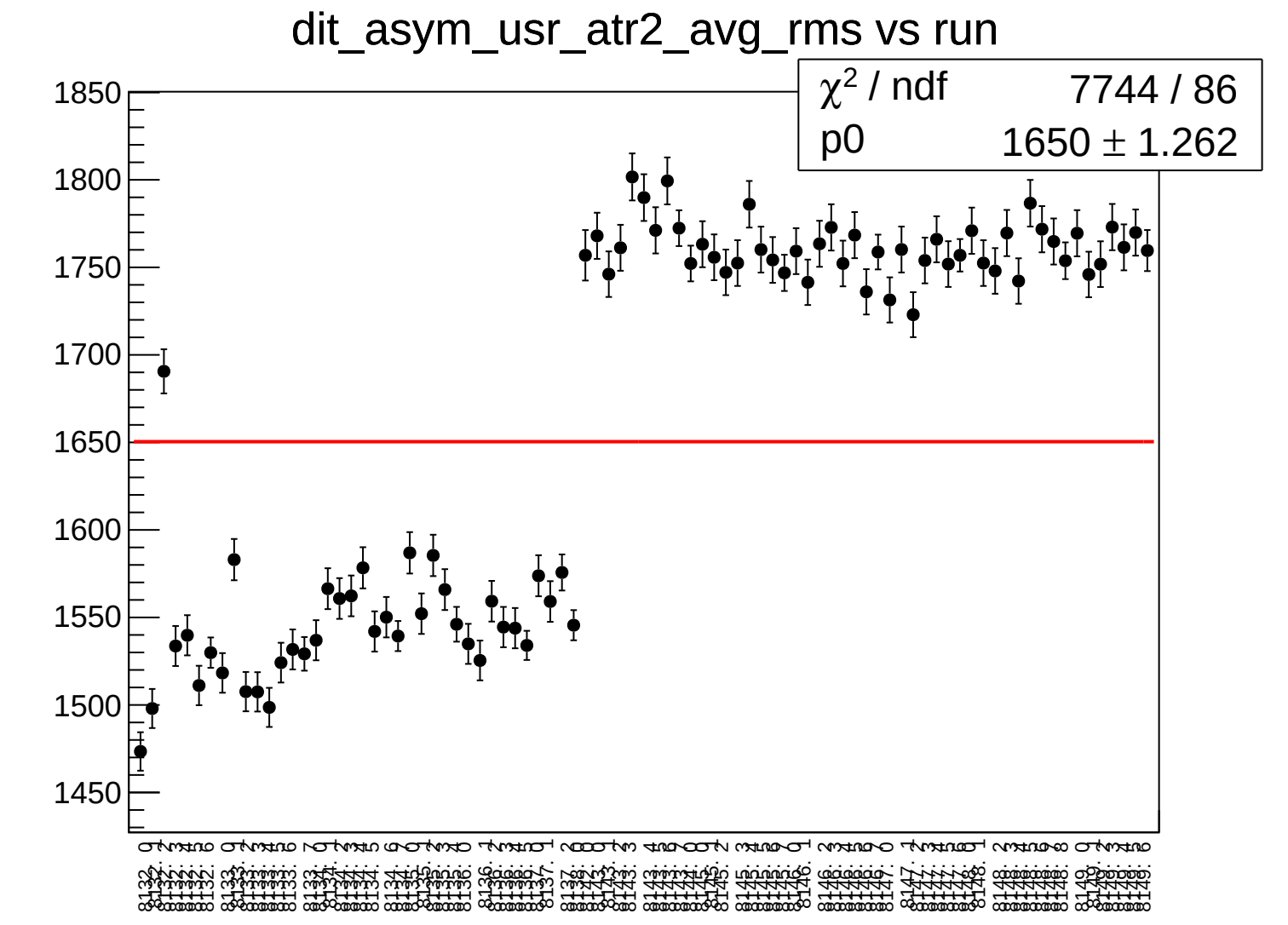

eigen_cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 7866 / 86
p0 1639 ± 1.253
1800
1750
1700
1650
1600
1550
1500
1450

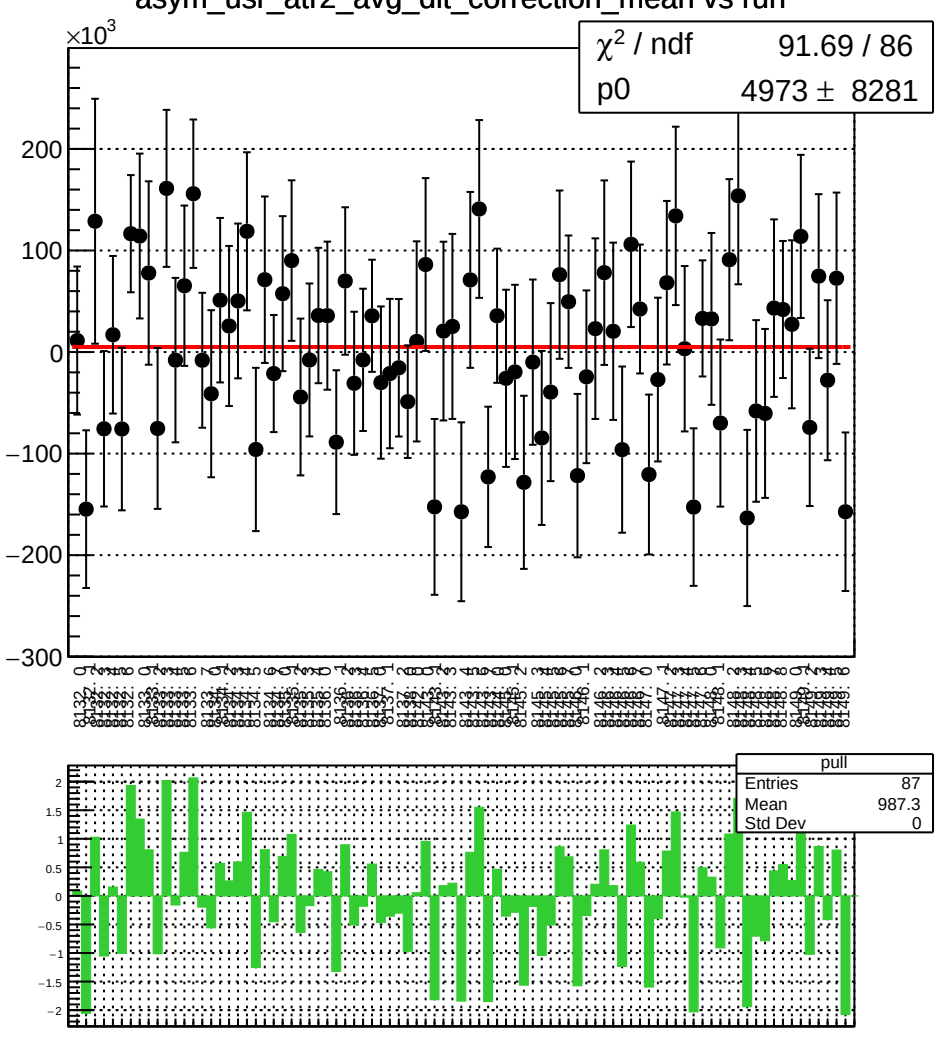

asym_usr_atr2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 92.3 / 86
p0 4689 ± 8246
200
100
0
−100
−200
pull
Entries 87
Mean 955
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 87
Mean −0.003089
Std Dev 1.03
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

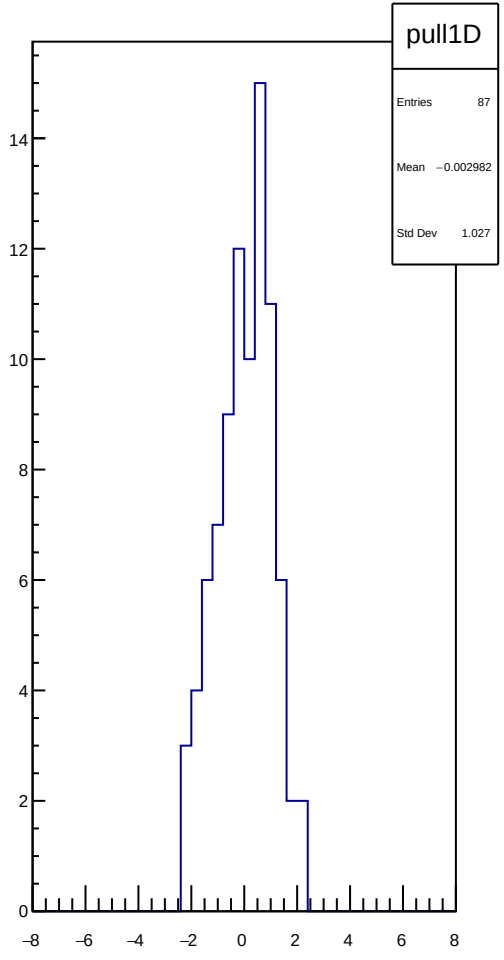

asym_usr_atr2_avg_eigen_cor_correction_rms vs run
χ² / ndf 9023 / 86
p0 7625 ± 5.831
11000
10000
9000
8000
7000

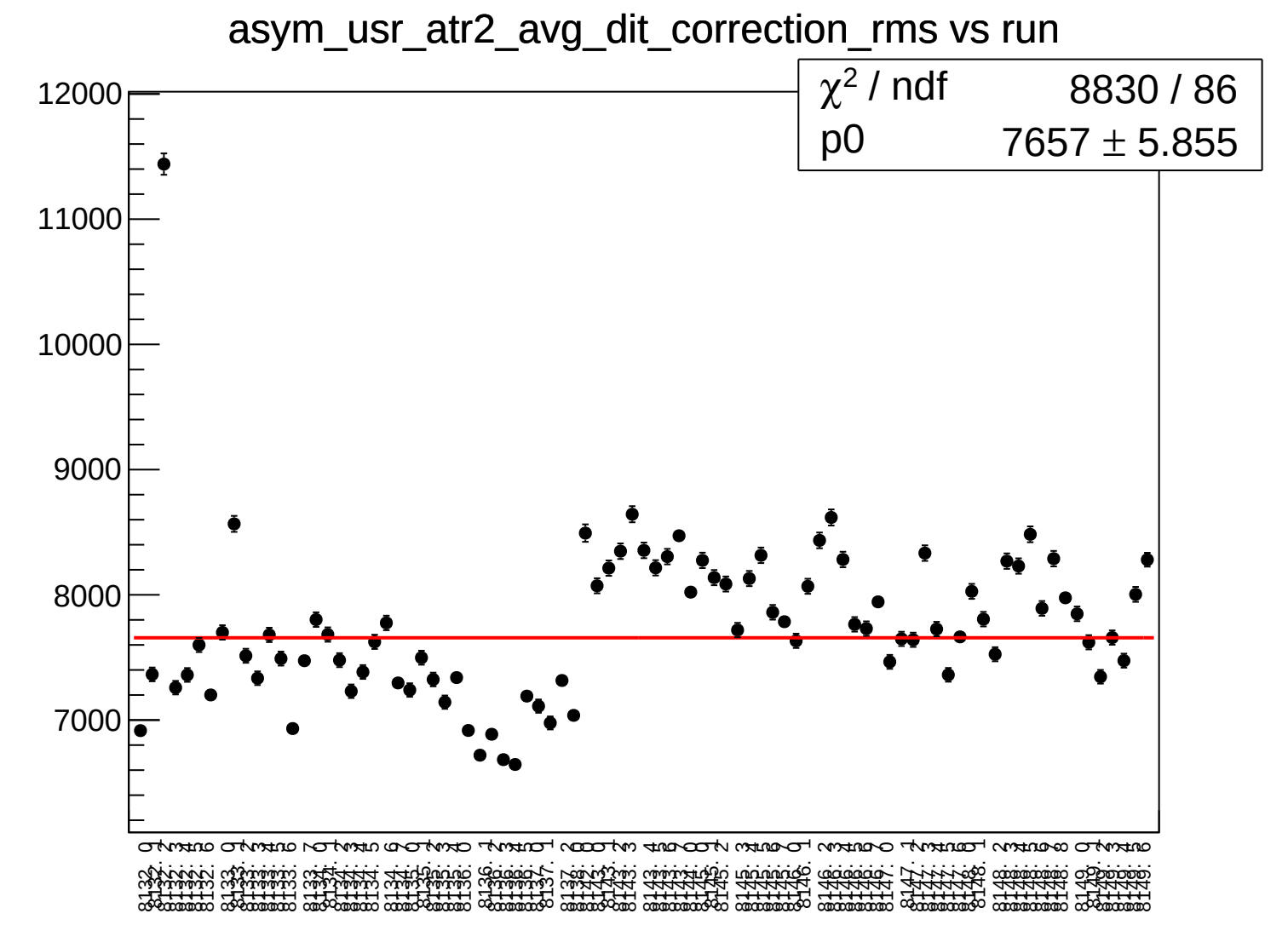

dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 72.48 / 86
p0 3153 ± 1784
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean 615.2
Std Dev 0
2
1
0
−1
−2
−3

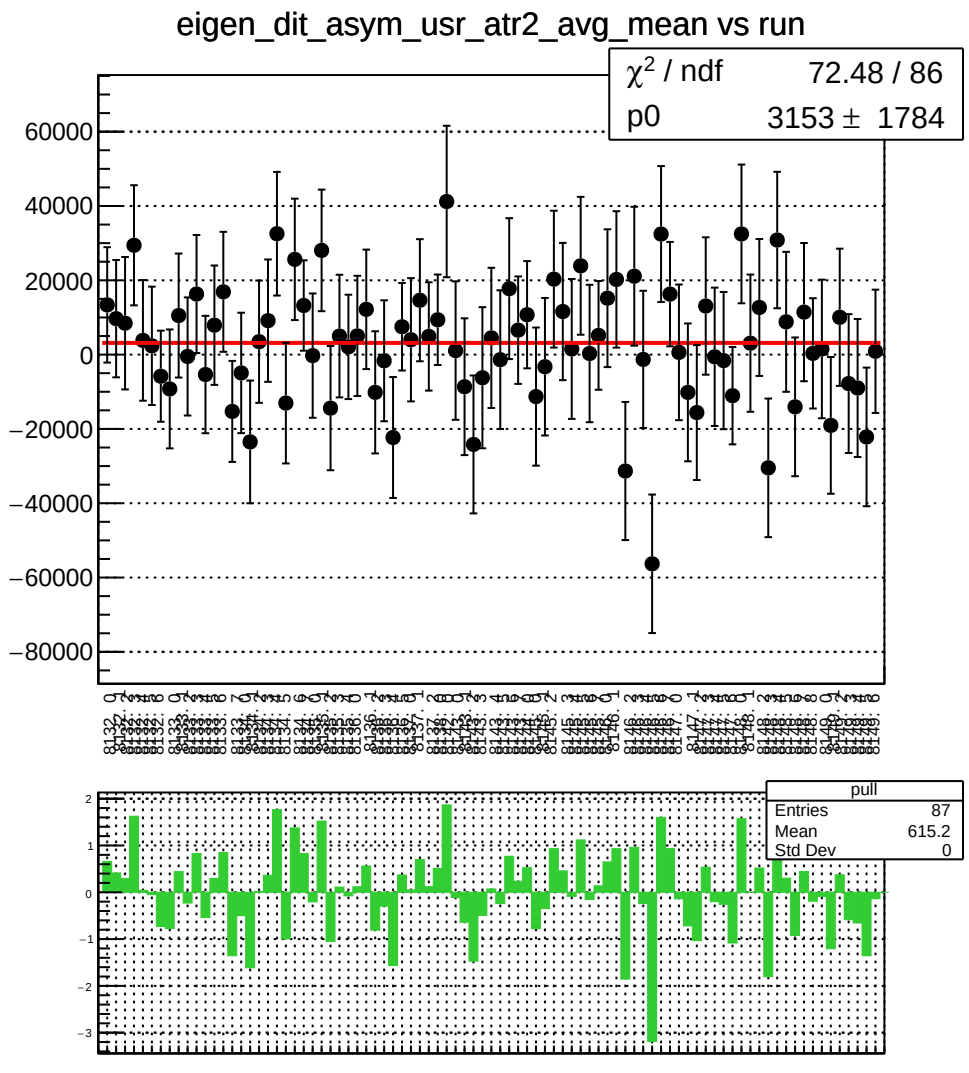

pull1D
Entries 87
Mean −0.005343
Std Dev 0.9127
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

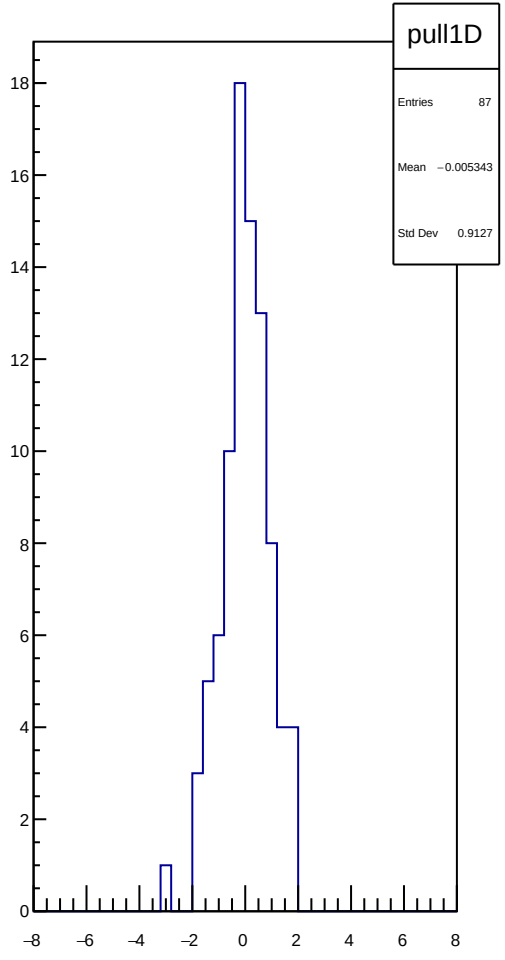

dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 7744 / 86
p0 1650 ± 1.262
1850
1800
1750
1700
1650
1600
1550
1500
1450

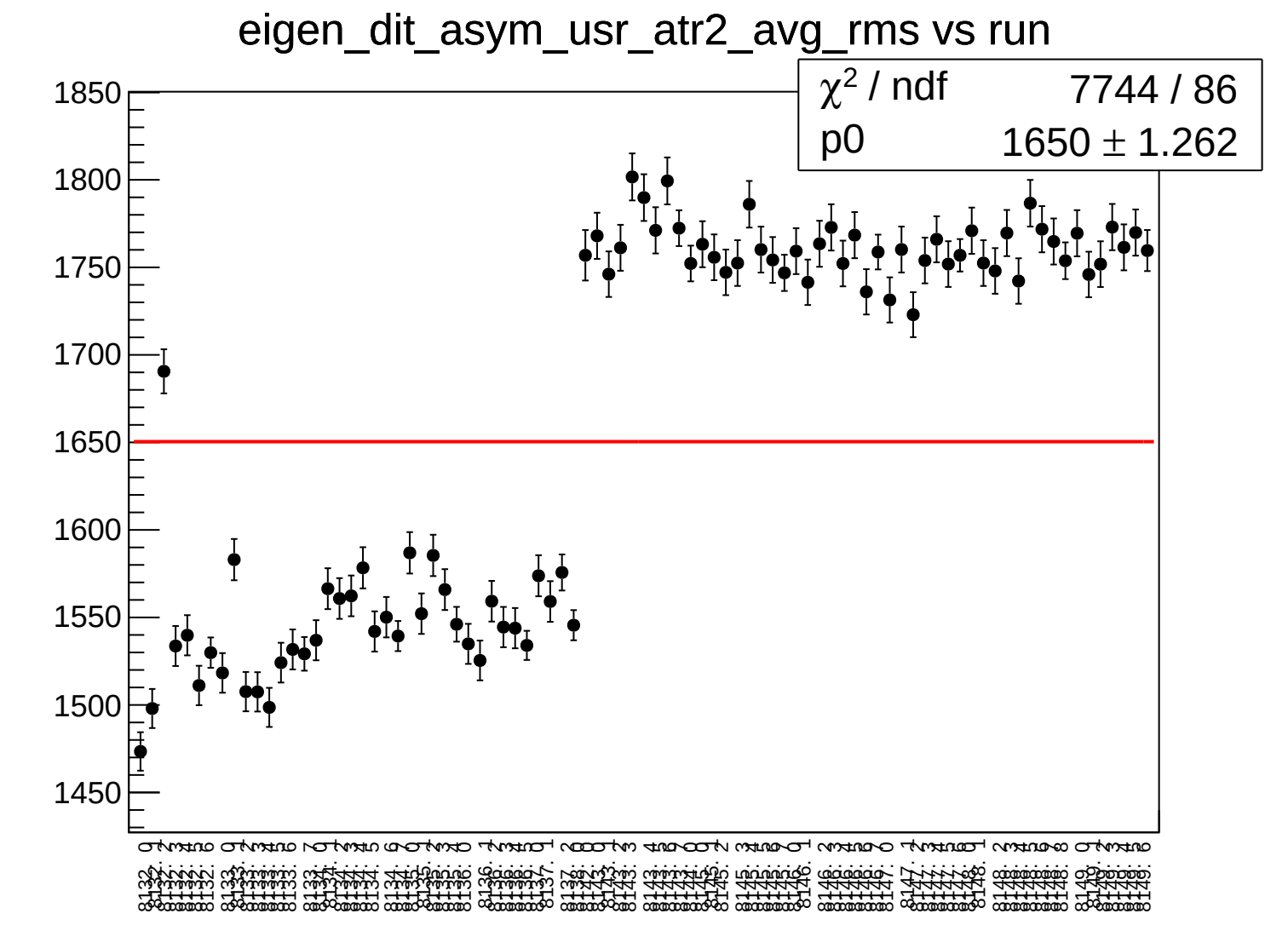

asym_usr_atr2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 91.69 / 86
p0 4973 ± 8281
200
100
0
−100
−200
−300
pull
Entries 87
Mean 987.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

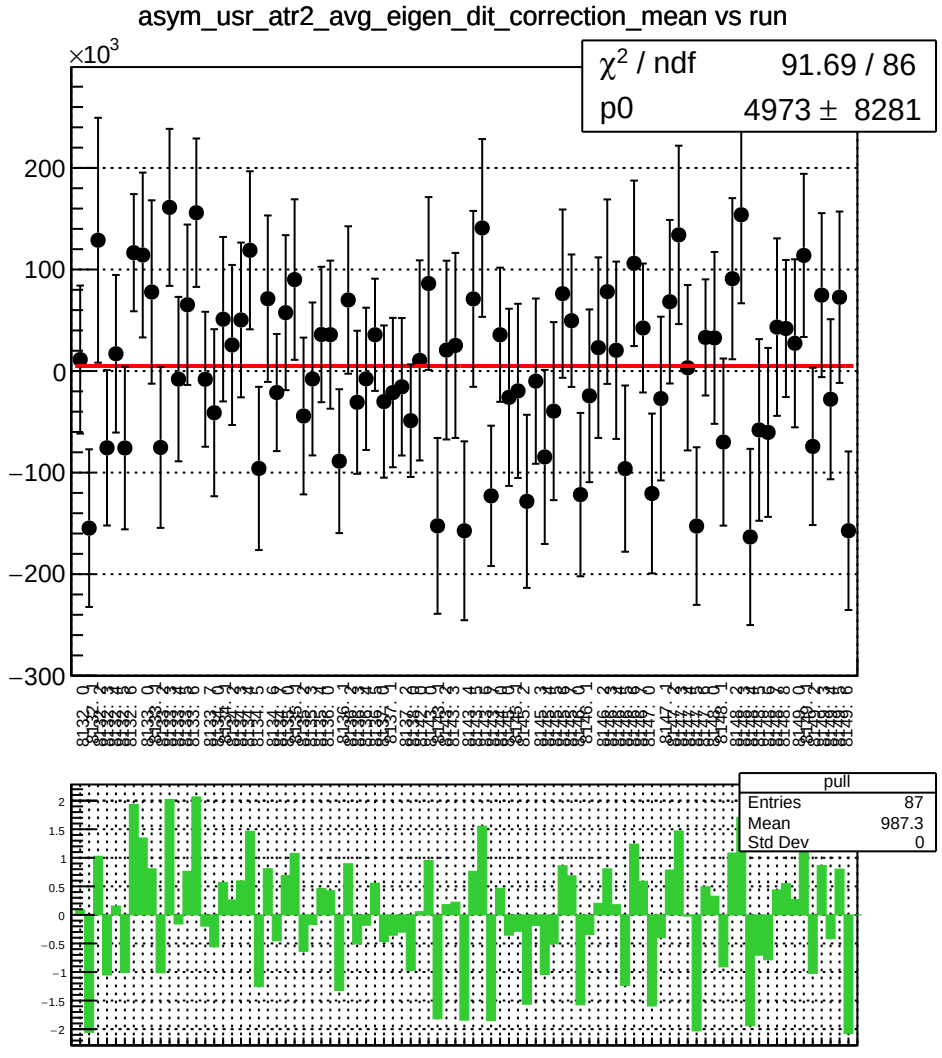

pull1D
Entries 87
Mean −0.002982
Std Dev 1.027
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

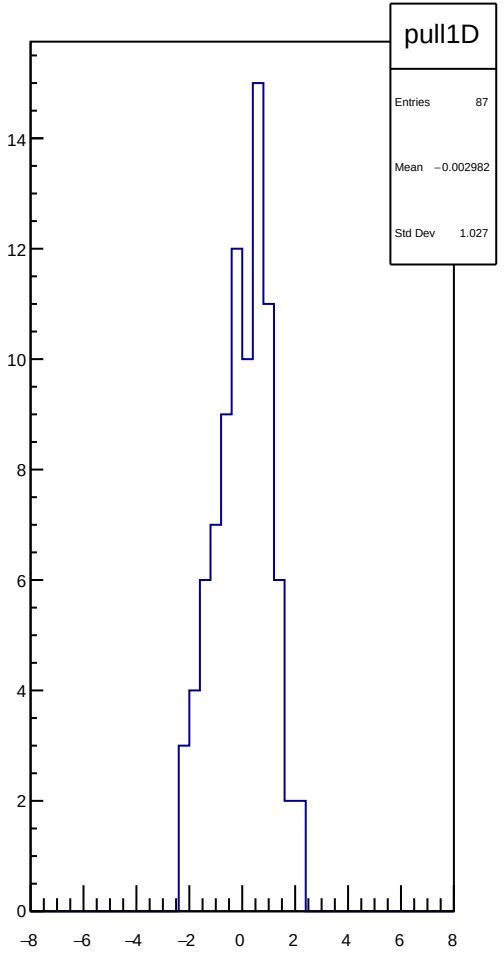

asym_usr_atr2_avg_dit_correction_rms vs run
χ² / ndf 8830 / 86
p0 7657 ± 5.855
12000
11000
10000
9000
8000
7000

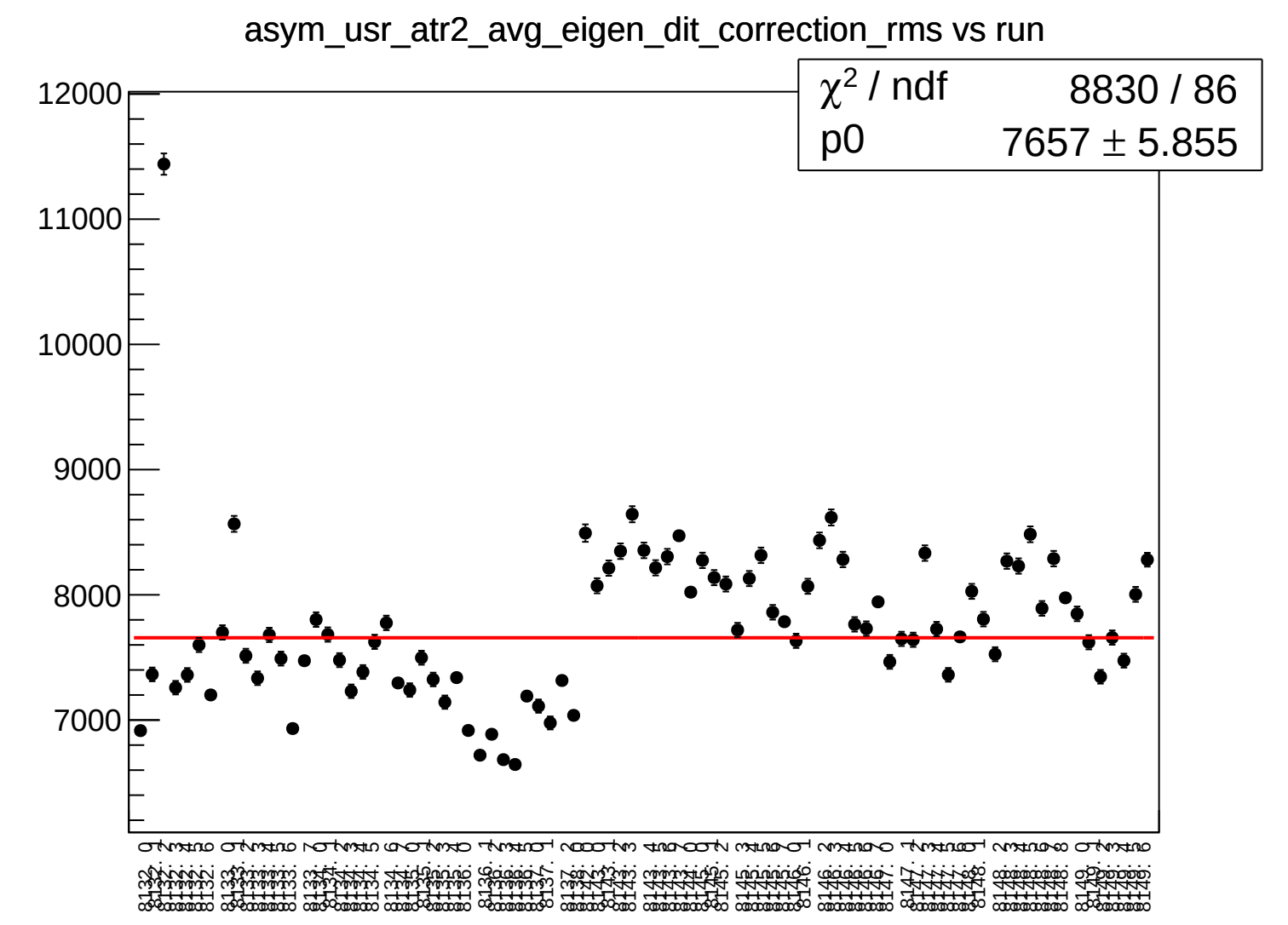

eigen_dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 72.48 / 86
p0 3153 ± 1784
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean 615.2
Std Dev 0
2
1
0
−1
−2
−3

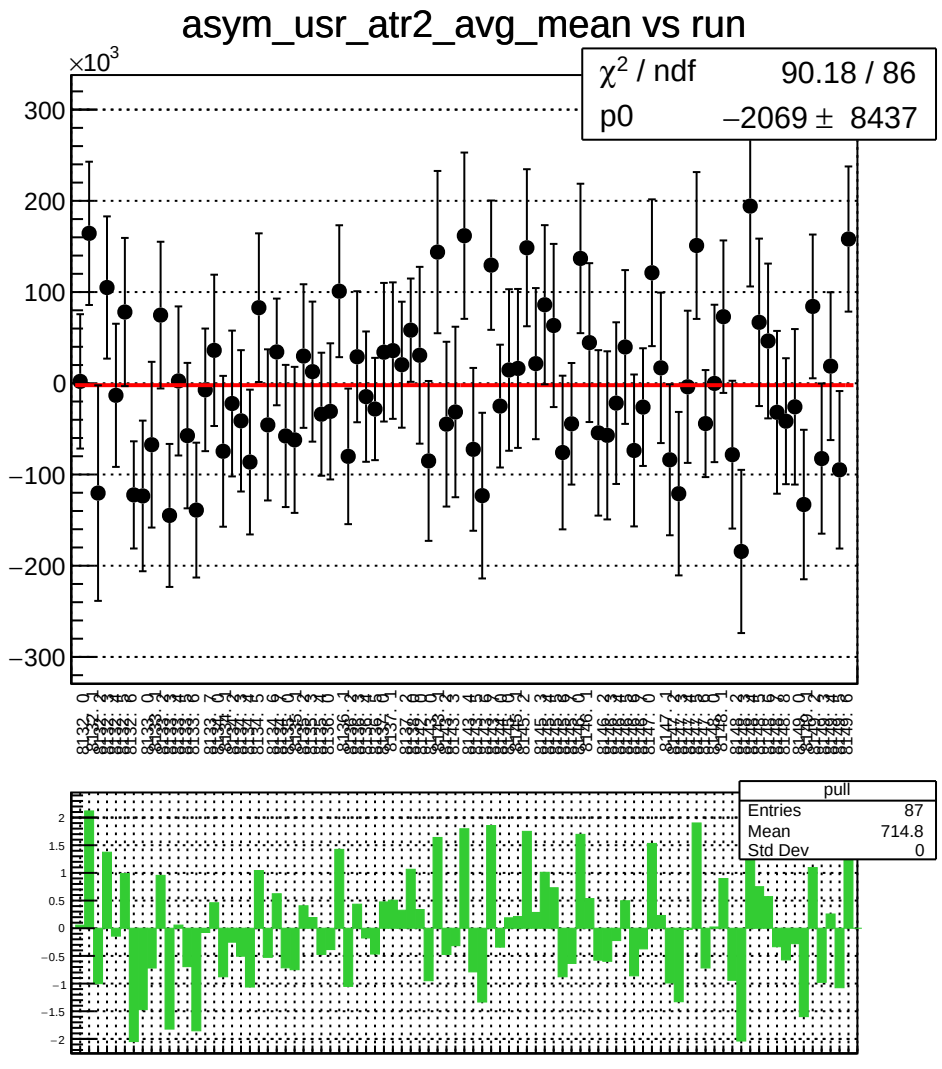

pull1D
Entries 87
Mean −0.005343
Std Dev 0.9127
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

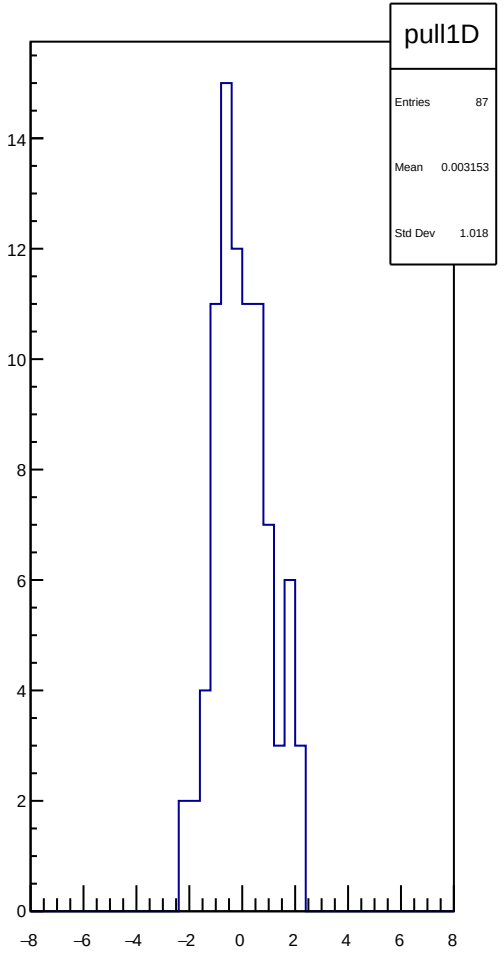

eigen_dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 7744 / 86
p0 1650 ± 1.262
1850
1800
1750
1700
1650
1600
1550
1500
1450

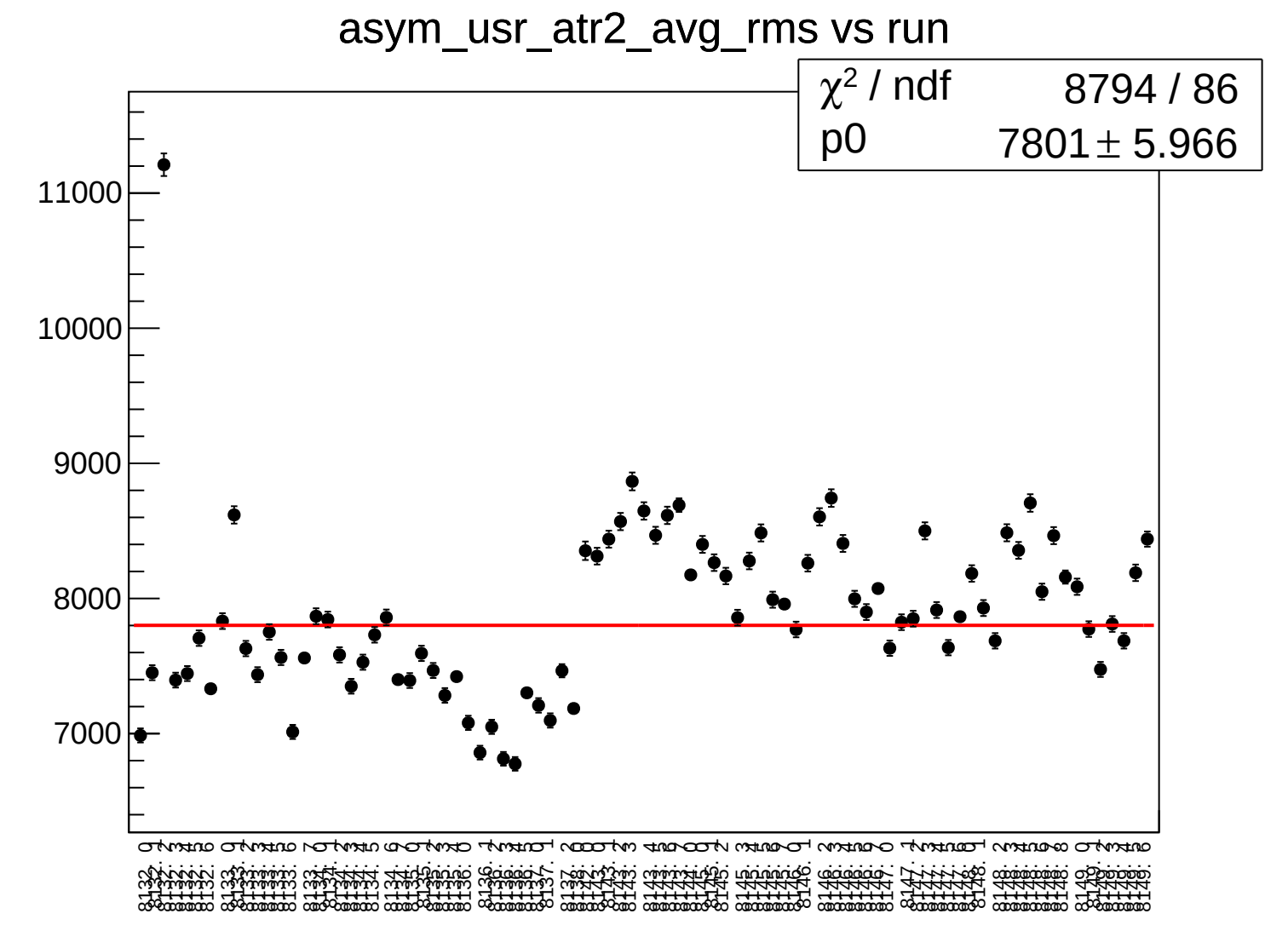

asym_usr_atr2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 91.69 / 86
p0 4973 ± 8281
pull
Entries 87
Mean 987.3
Std Dev 0

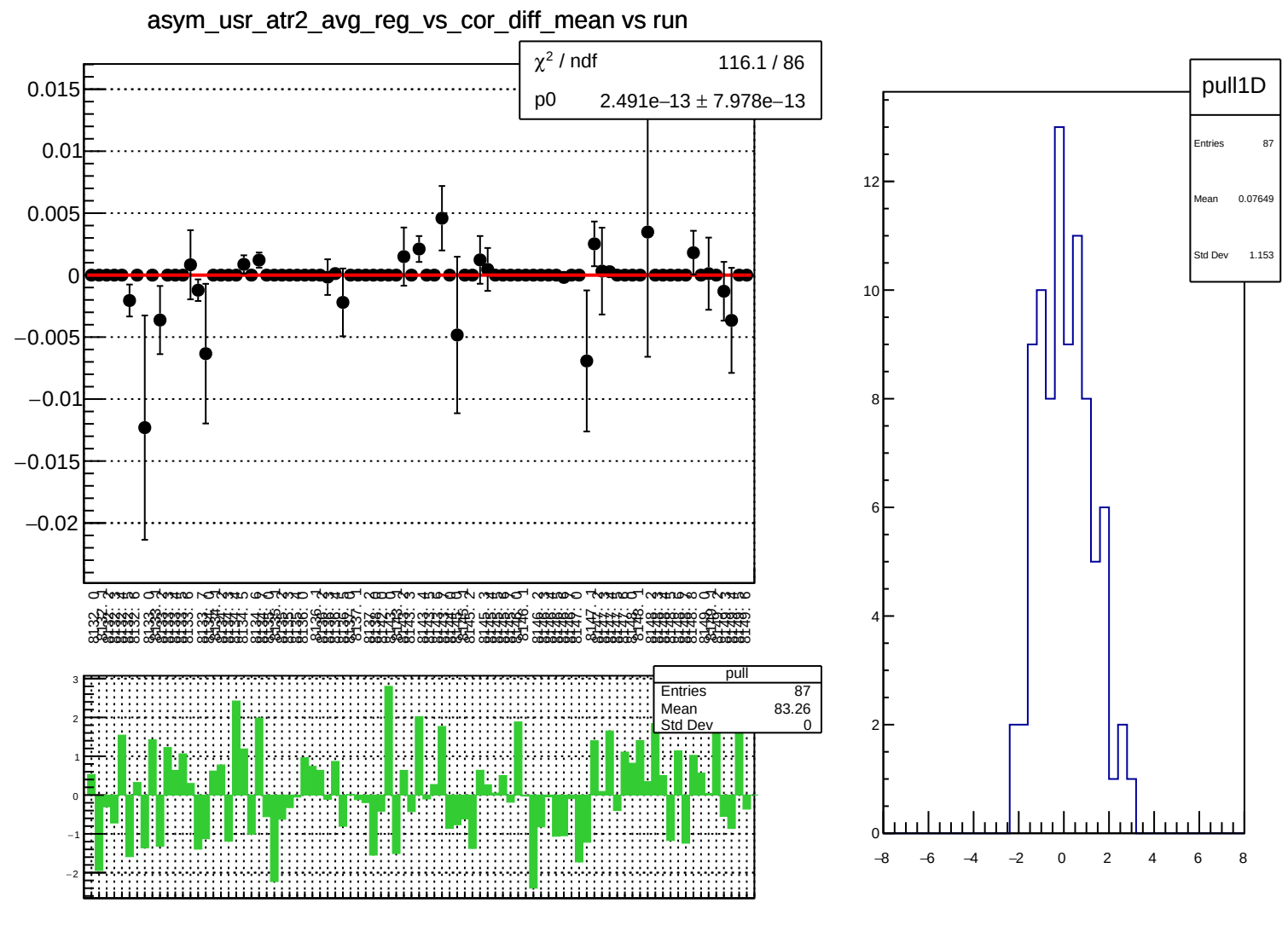

pull1D
Entries 87
Mean −0.002982
Std Dev 1.027

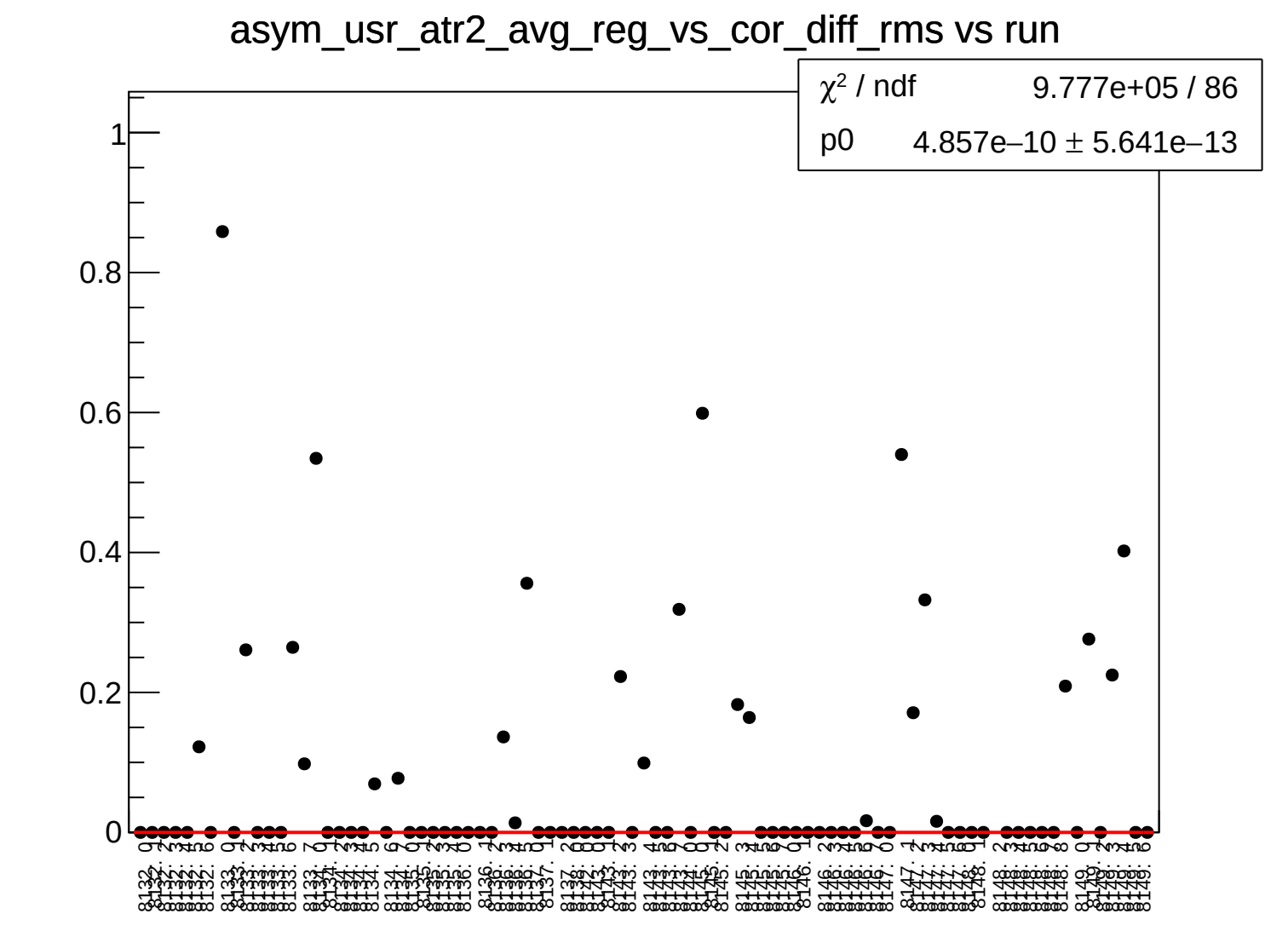

asym_usr_atr2_avg_eigen_dit_correction_rms vs run
χ² / ndf 8830 / 86
p0 7657 ± 5.855
12000
11000
10000
9000
8000
7000

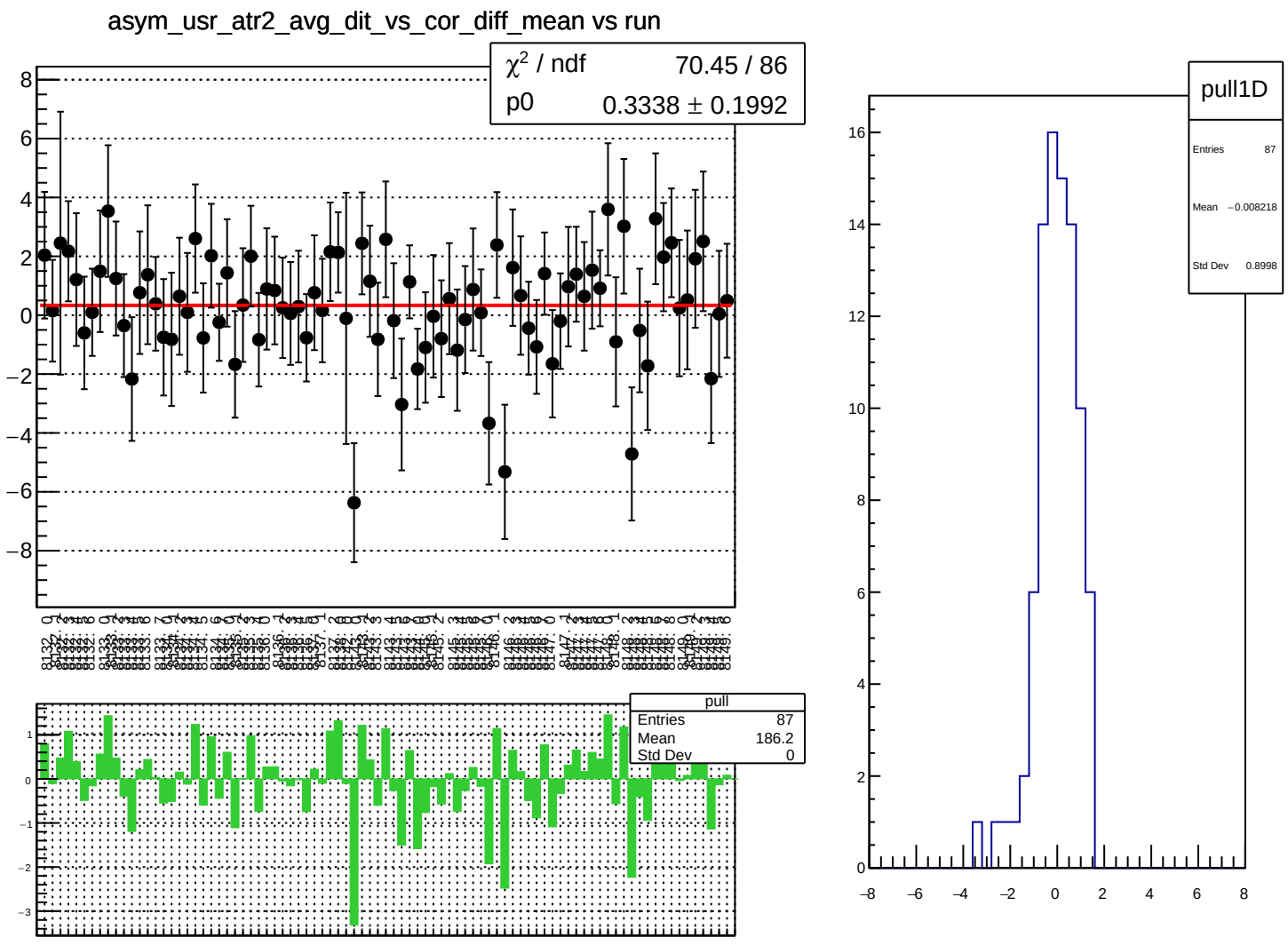

asym_usr_atr2_avg_mean vs run
×10^3
χ² / ndf 90.18 / 86
p0 −2069 ± 8437
300
200
100
0
−100
−200
−300
pull
Entries 87
Mean 714.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

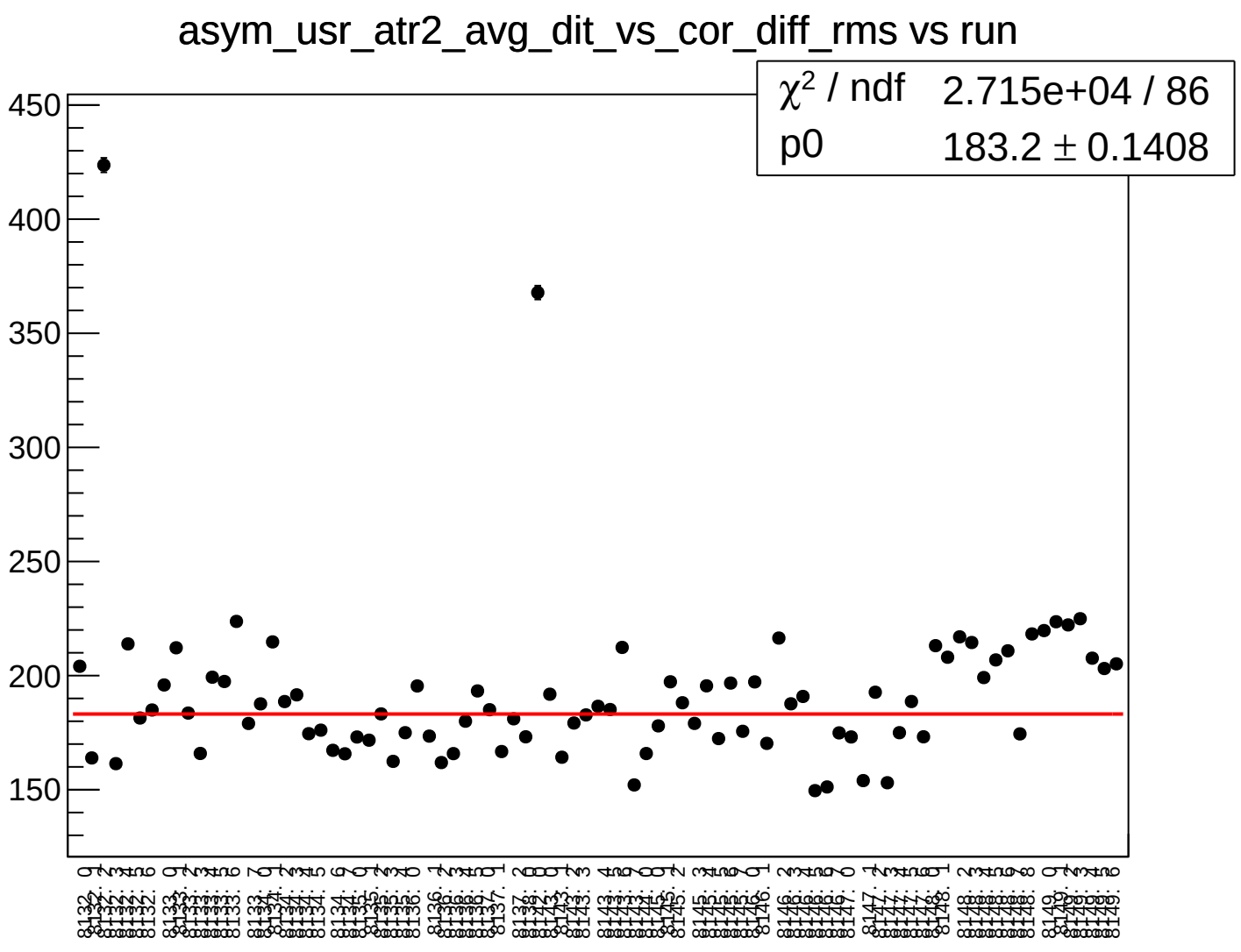

pull1D
Entries 87
Mean 0.003153
Std Dev 1.018
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

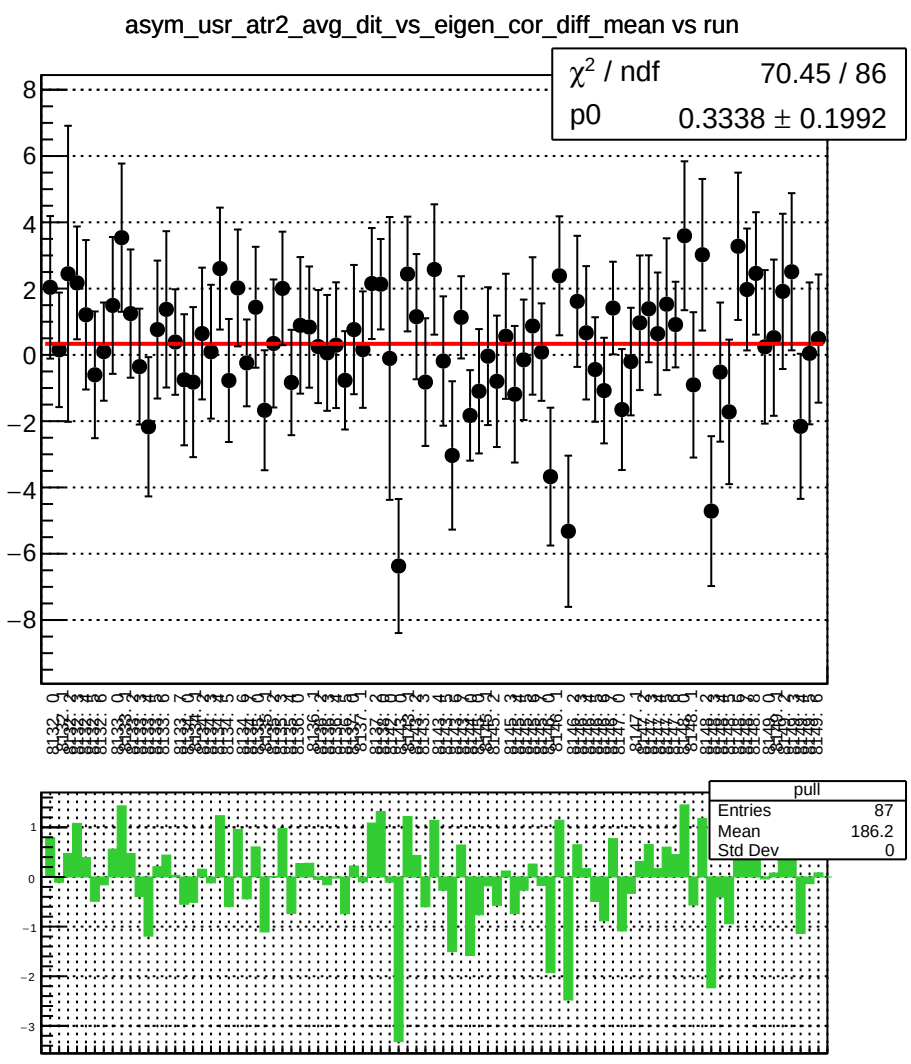

asym_usr_atr2_avg_rms vs run
χ² / ndf 8794 / 86
p0 7801 ± 5.966
11000
10000
9000
8000
7000

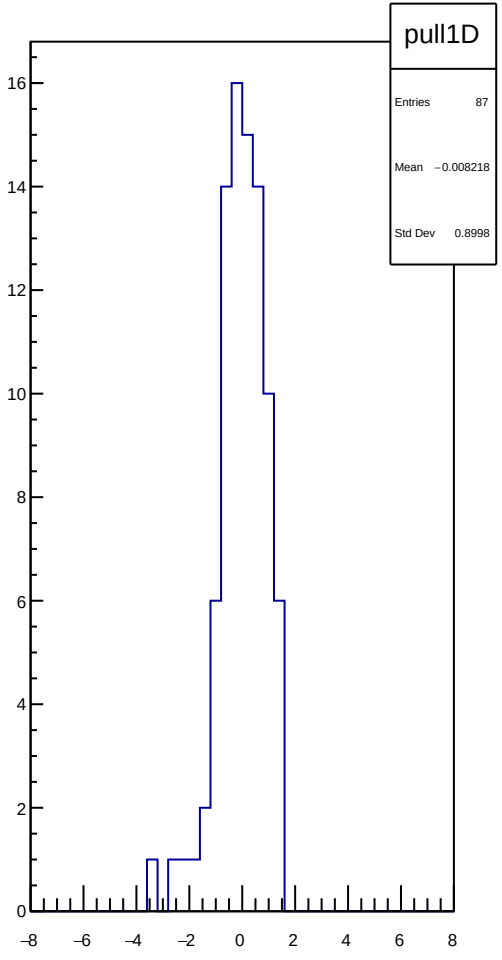

asym_usr_atr2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 116.1 / 86
p0 2.491e−13 ± 7.978e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 87
Mean 83.26
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.07649
Std Dev 1.153
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

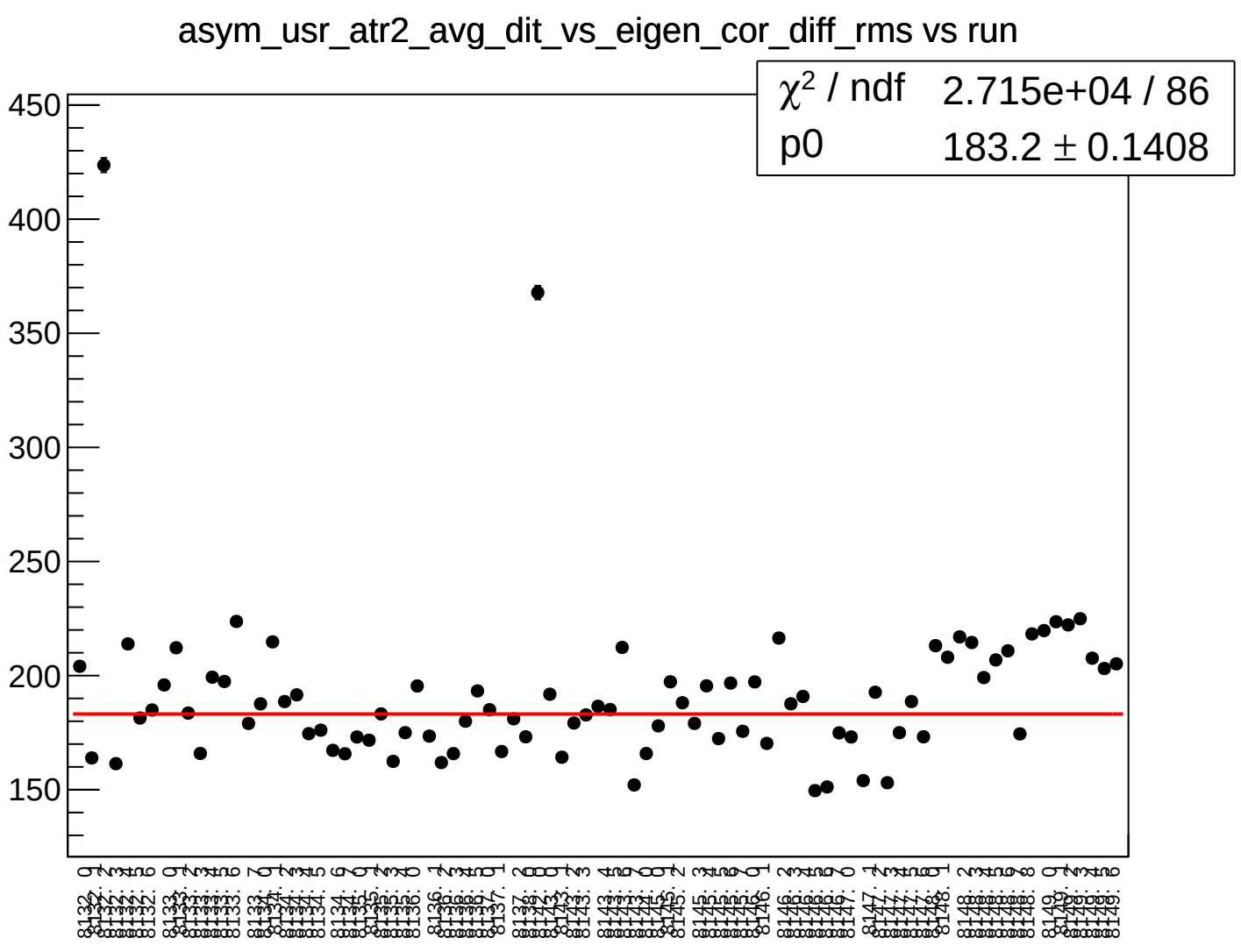

asym_usr_atr2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.777e+05 / 86
p0 4.857e−10 ± 5.641e−13
1
0.8
0.6
0.4
0.2
0

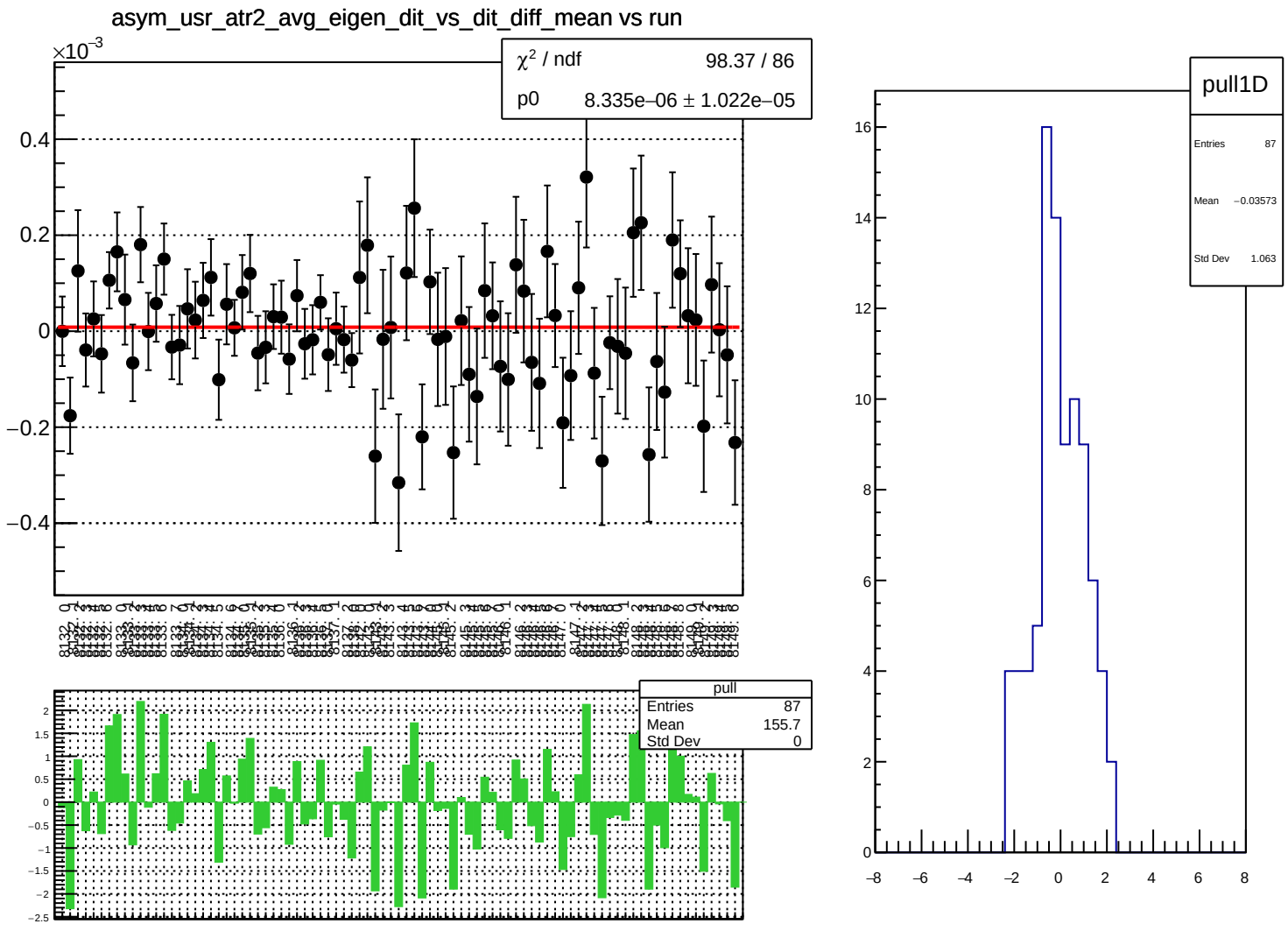

asym_usr_atr2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 70.45 / 86
p0 0.3338 ± 0.1992
pull
Entries 87
Mean 186.2
Std Dev 0
pull1D
Entries 87
Mean −0.008218
Std Dev 0.8998

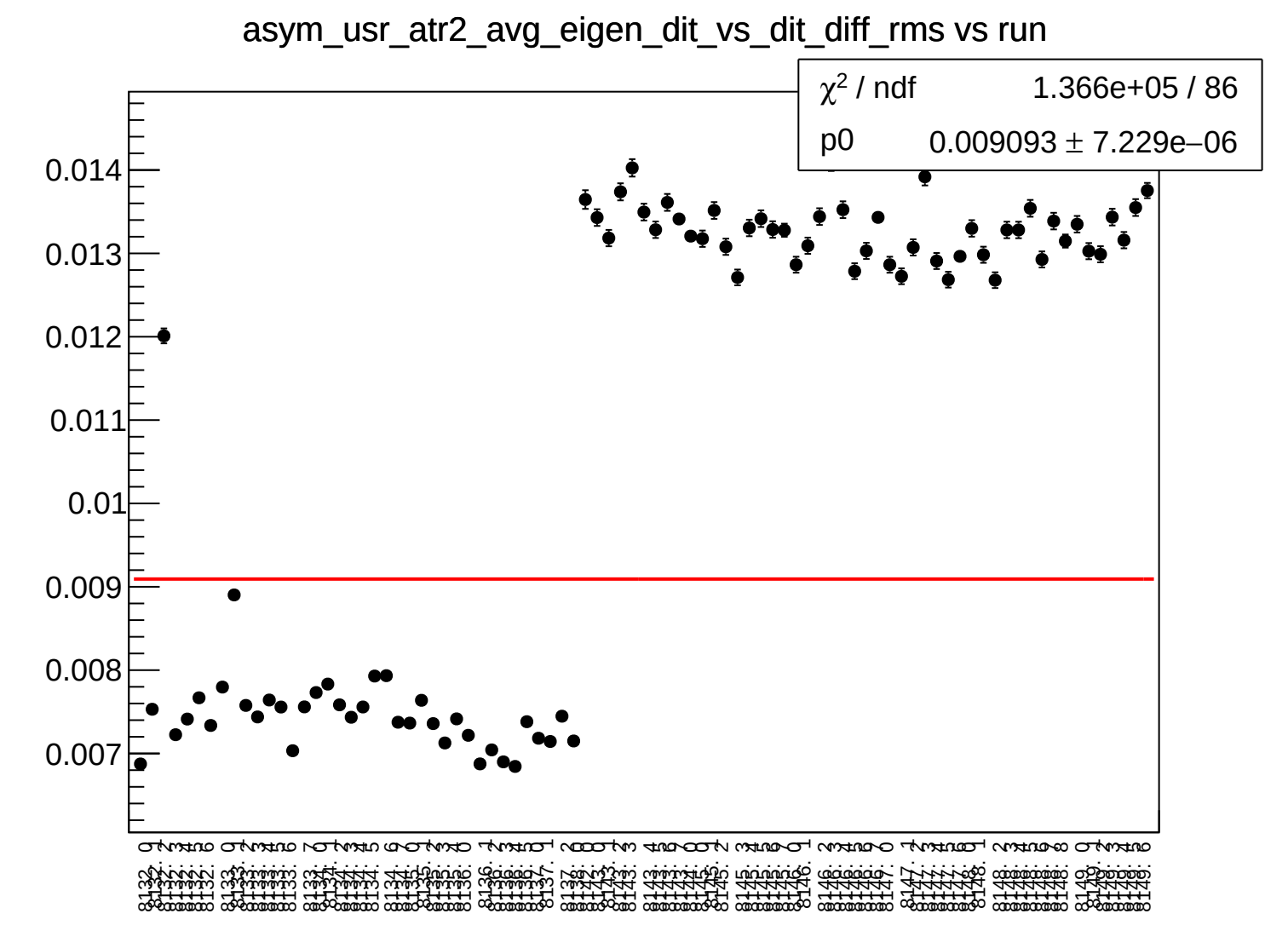

asym_usr_atr2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.715e+04 / 86
p0 183.2 ± 0.1408
450
400
350
300
250
200
150

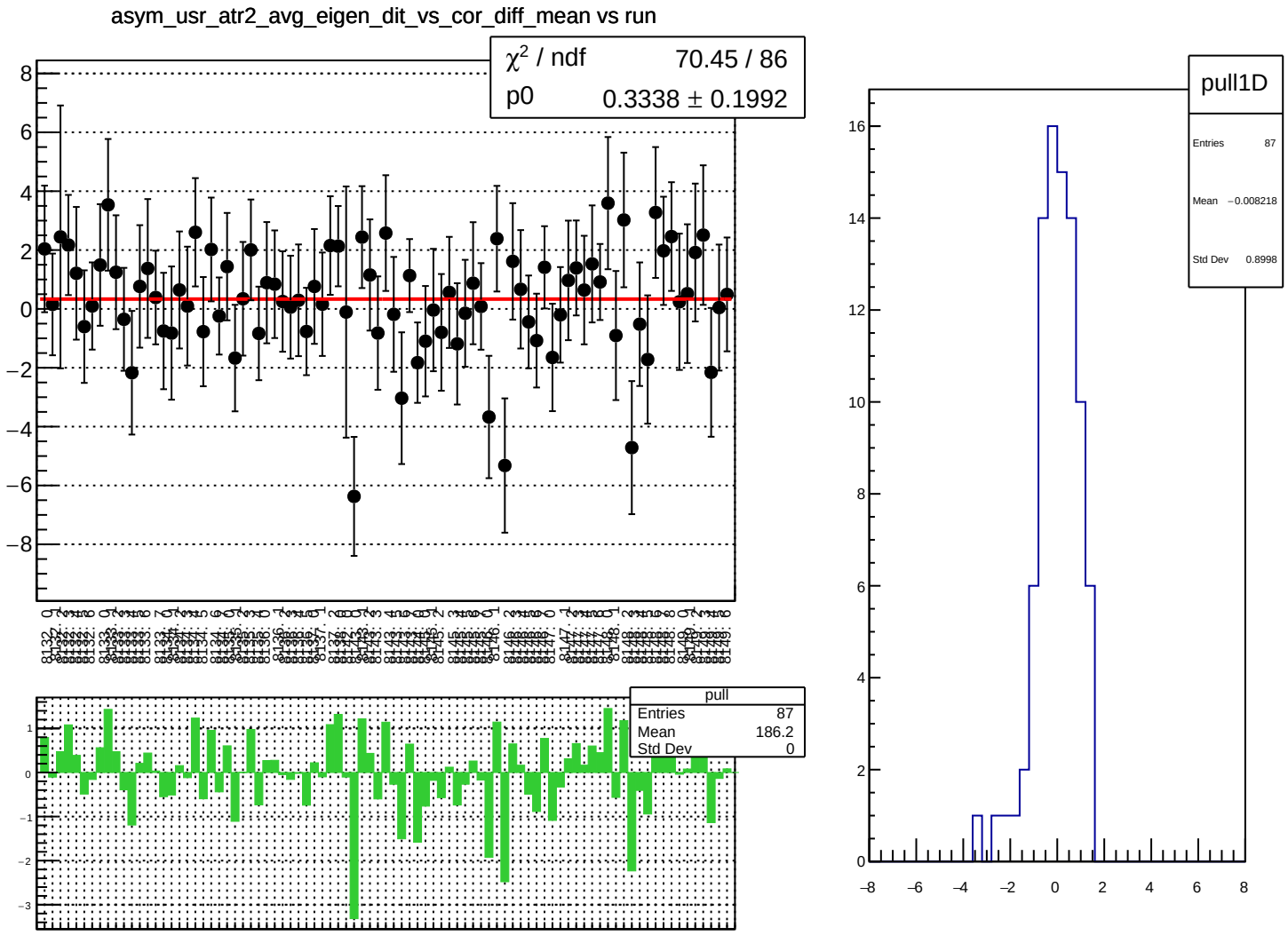

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.45 / 86
p0 0.3338 ± 0.1992
pull
Entries 87
Mean 186.2
Std Dev 0

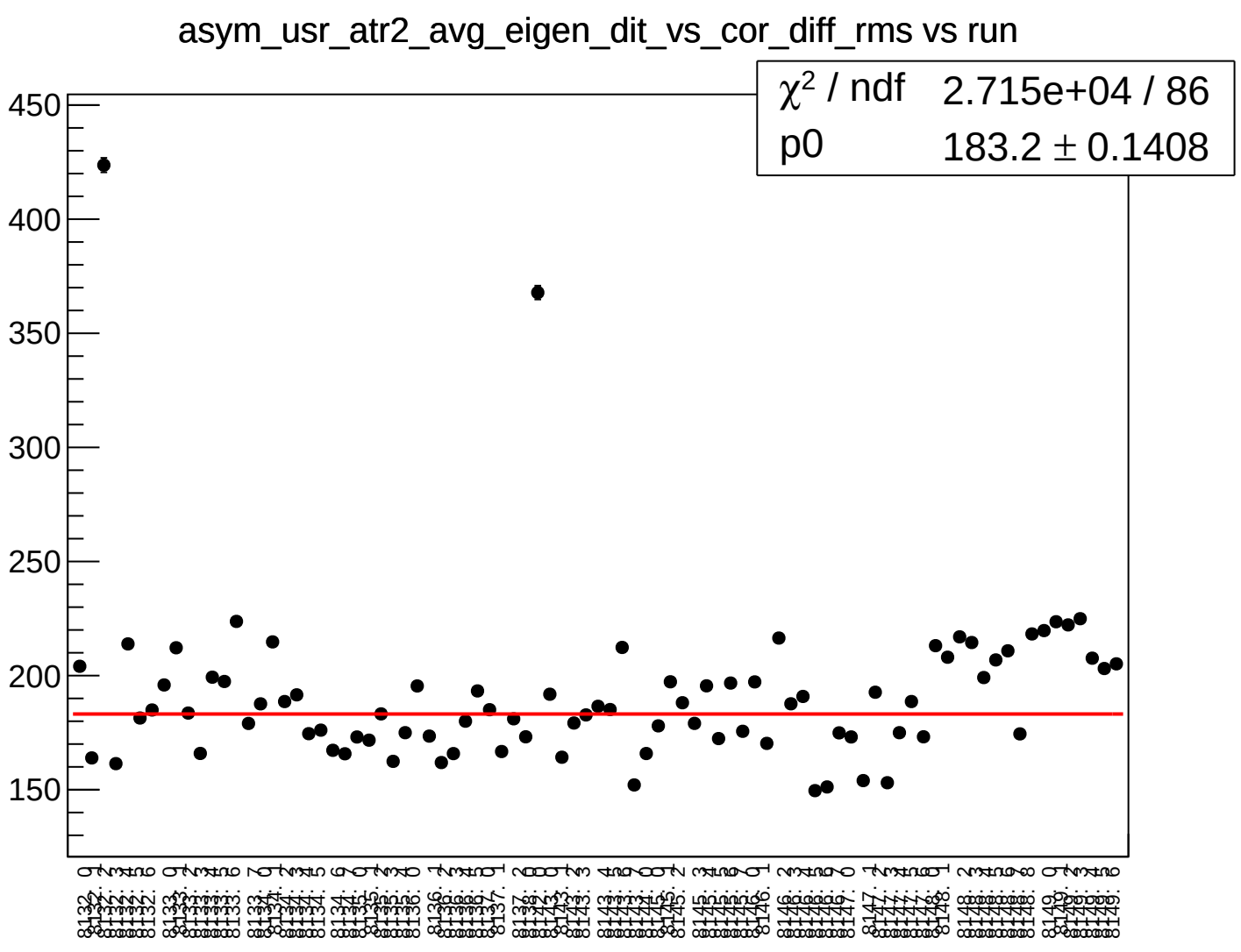

pull1D
Entries 87
Mean −0.008218
Std Dev 0.8998

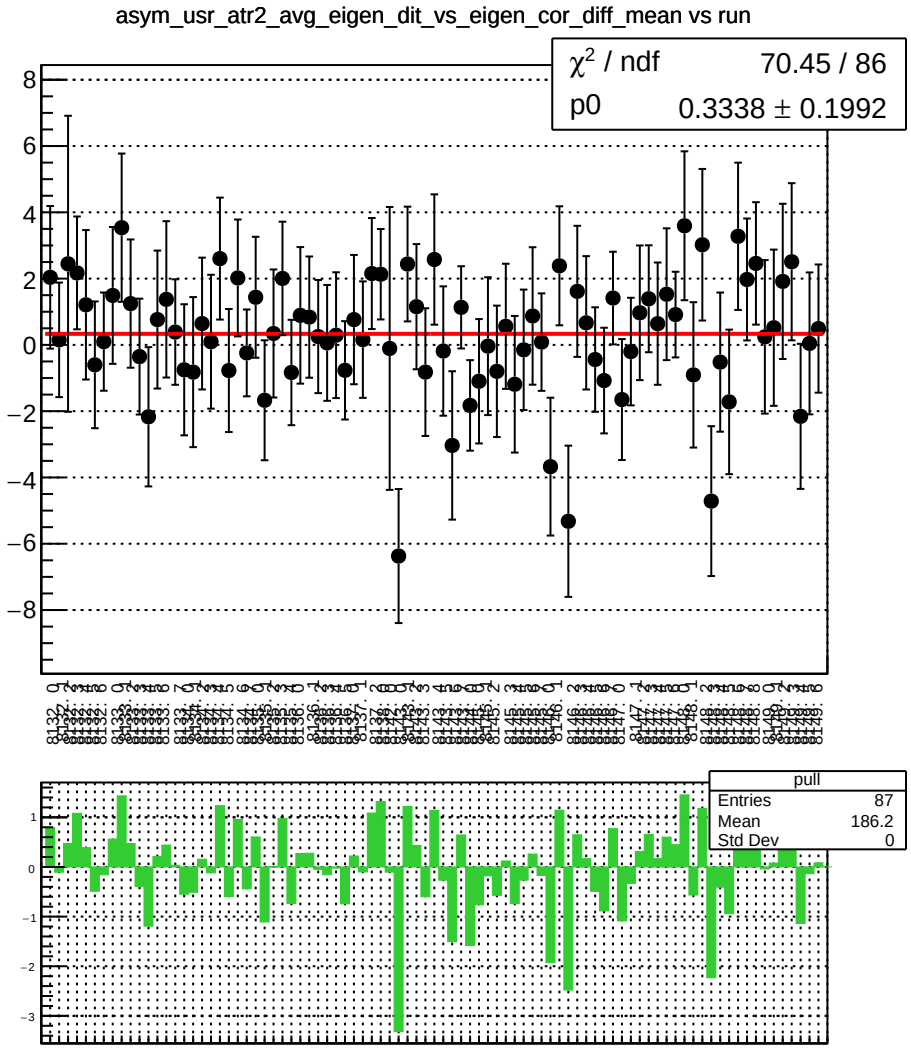

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.715e+04 / 86
p0 183.2 ± 0.1408
450
400
350
300
250
200
150

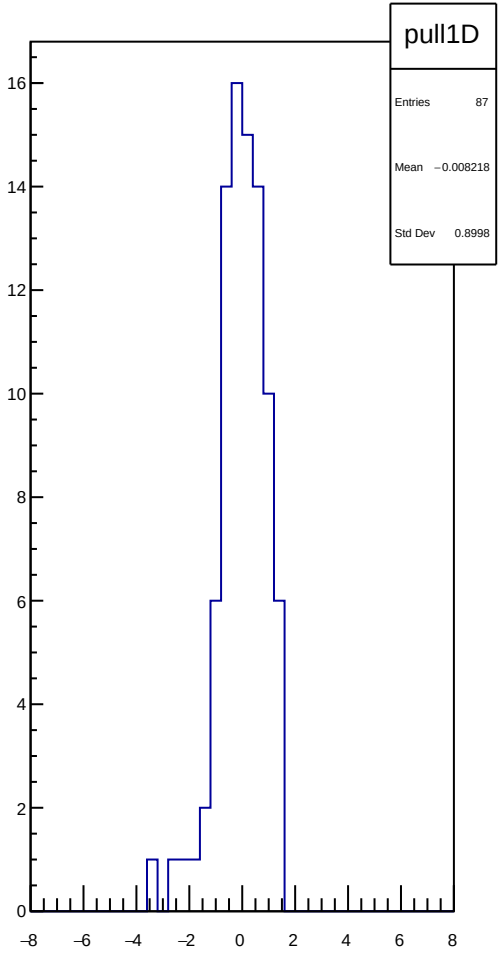

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_mean vs run
×10−3
χ2 / ndf 98.37 / 86
p0 8.335e−06 ± 1.022e−05
0.4
0.2
0
−0.2
−0.4
pull
Entries 87
Mean 155.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 87
Mean −0.03573
Std Dev 1.063
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

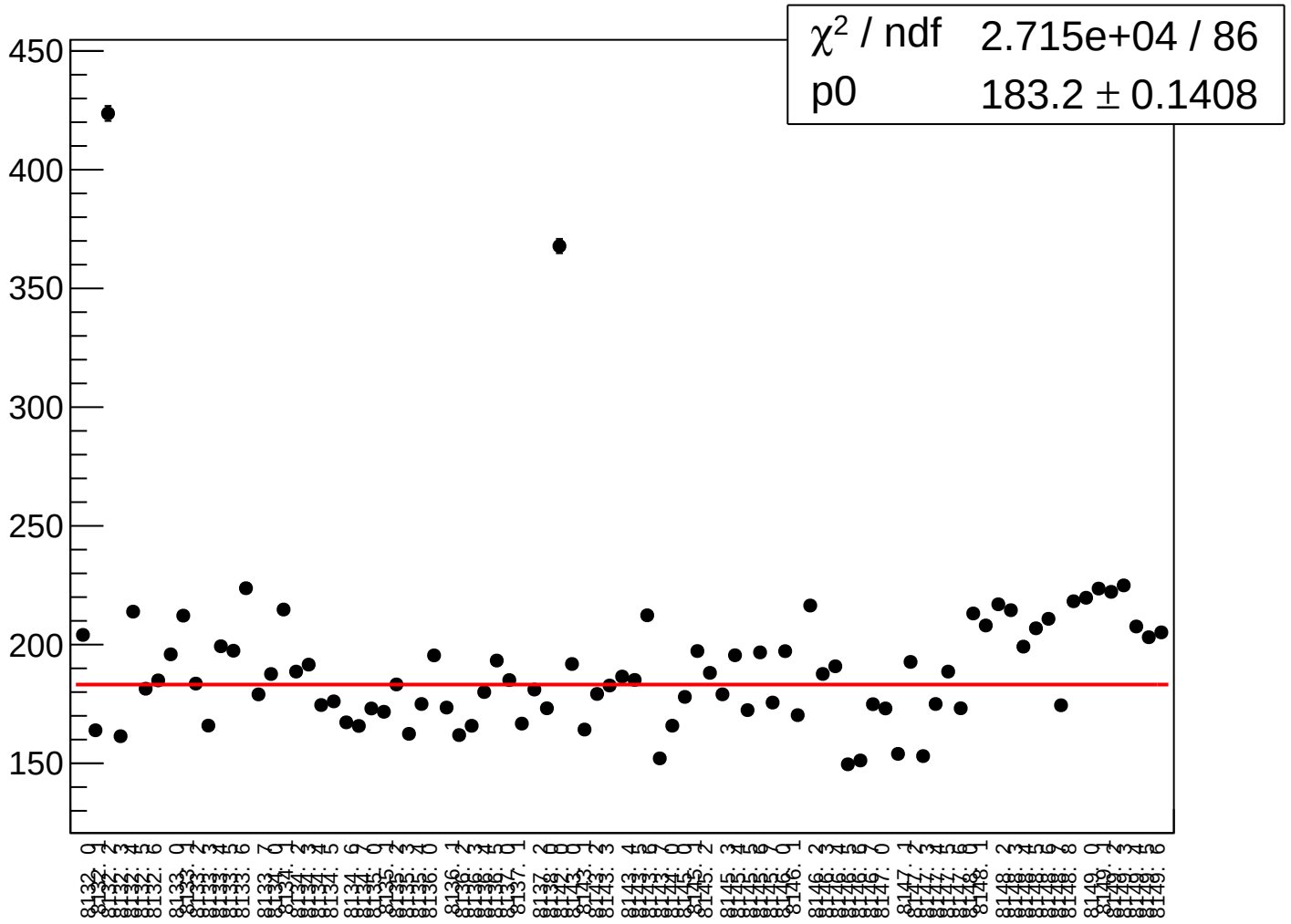

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.366e+05 / 86
p0 0.009093 ± 7.229e−06
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007

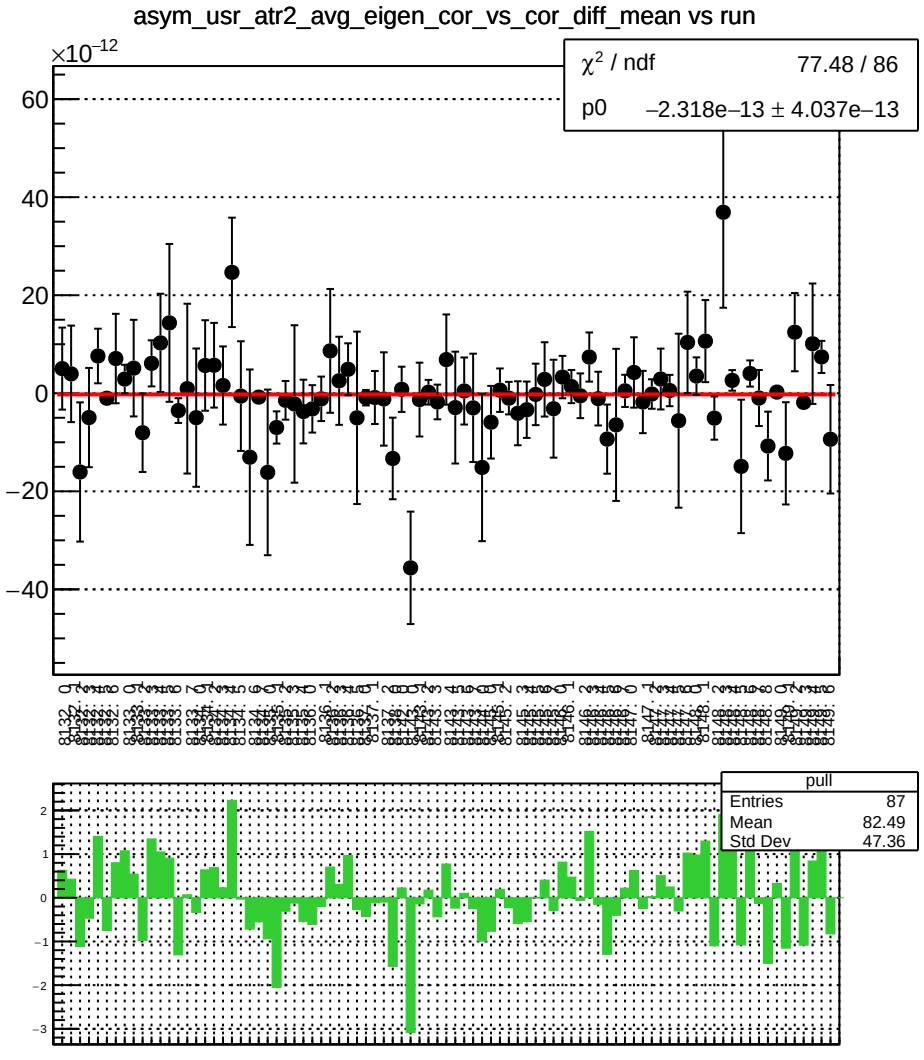

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 70.45 / 86
p0 0.3338 ± 0.1992
pull
Entries 87
Mean 186.2
Std Dev 0
pull1D
Entries 87
Mean −0.008218
Std Dev 0.8998

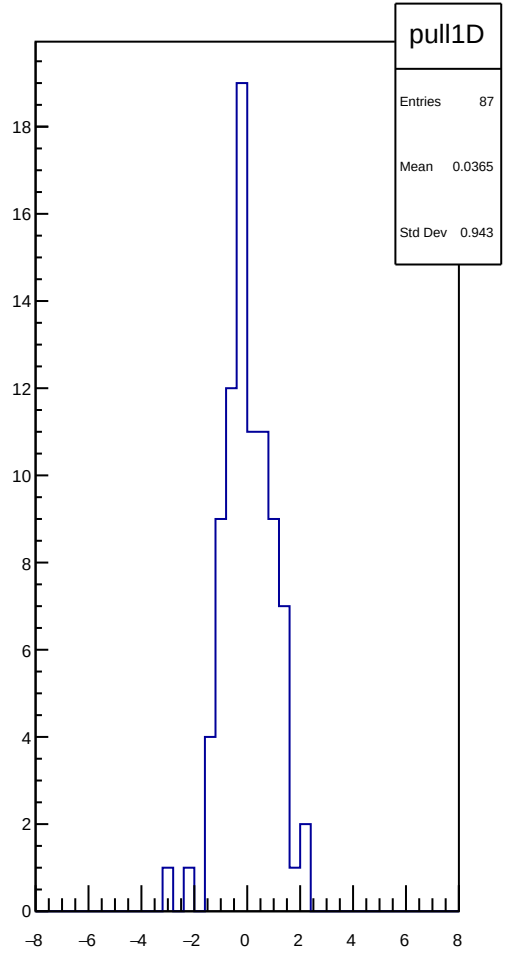

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.715e+04 / 86
p0 183.2 ± 0.1408
450
400
350
300
250
200
150

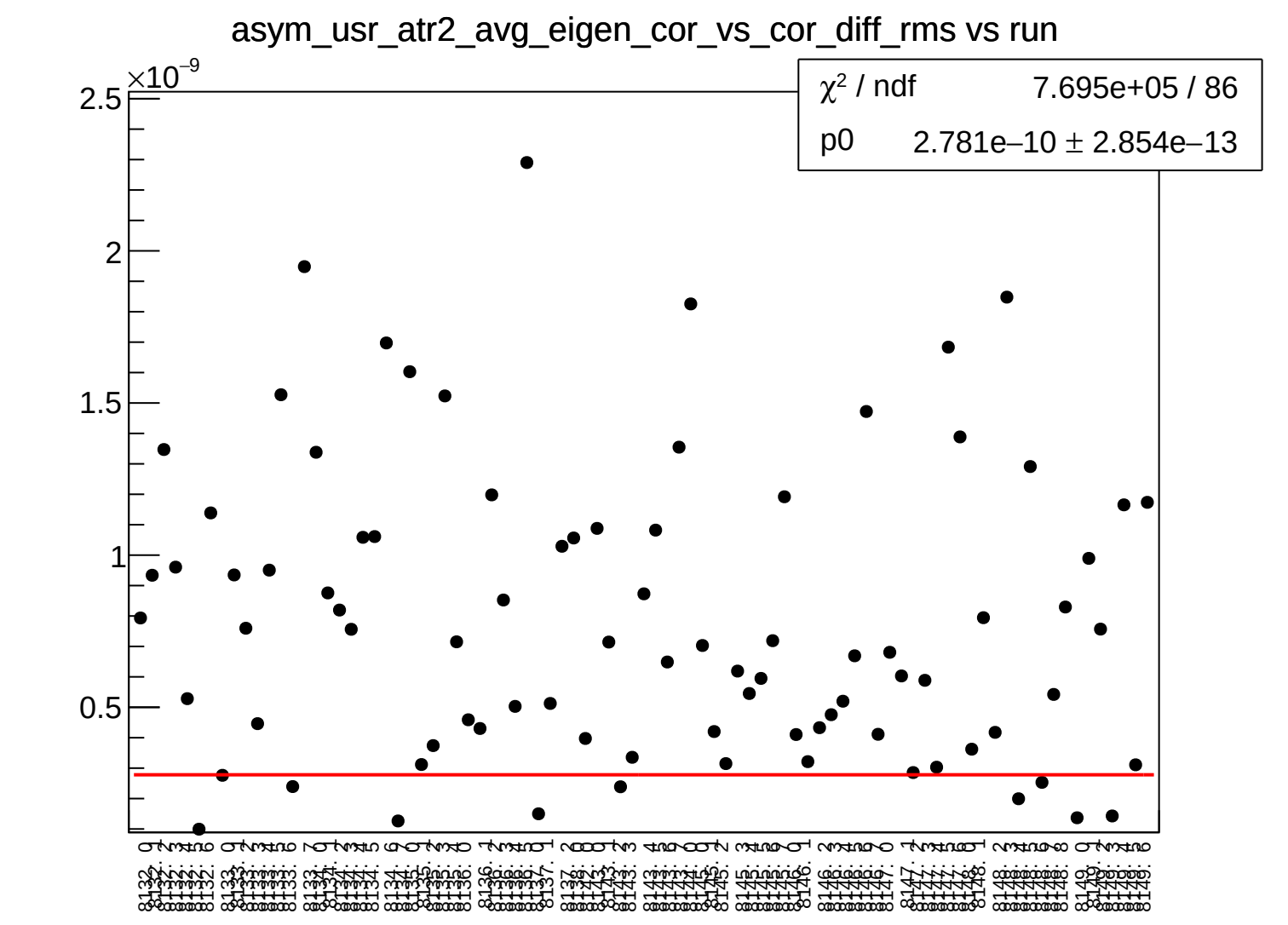

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.45 / 86
p0 0.3338 ± 0.1992
pull
Entries 87
Mean 186.2
Std Dev 0

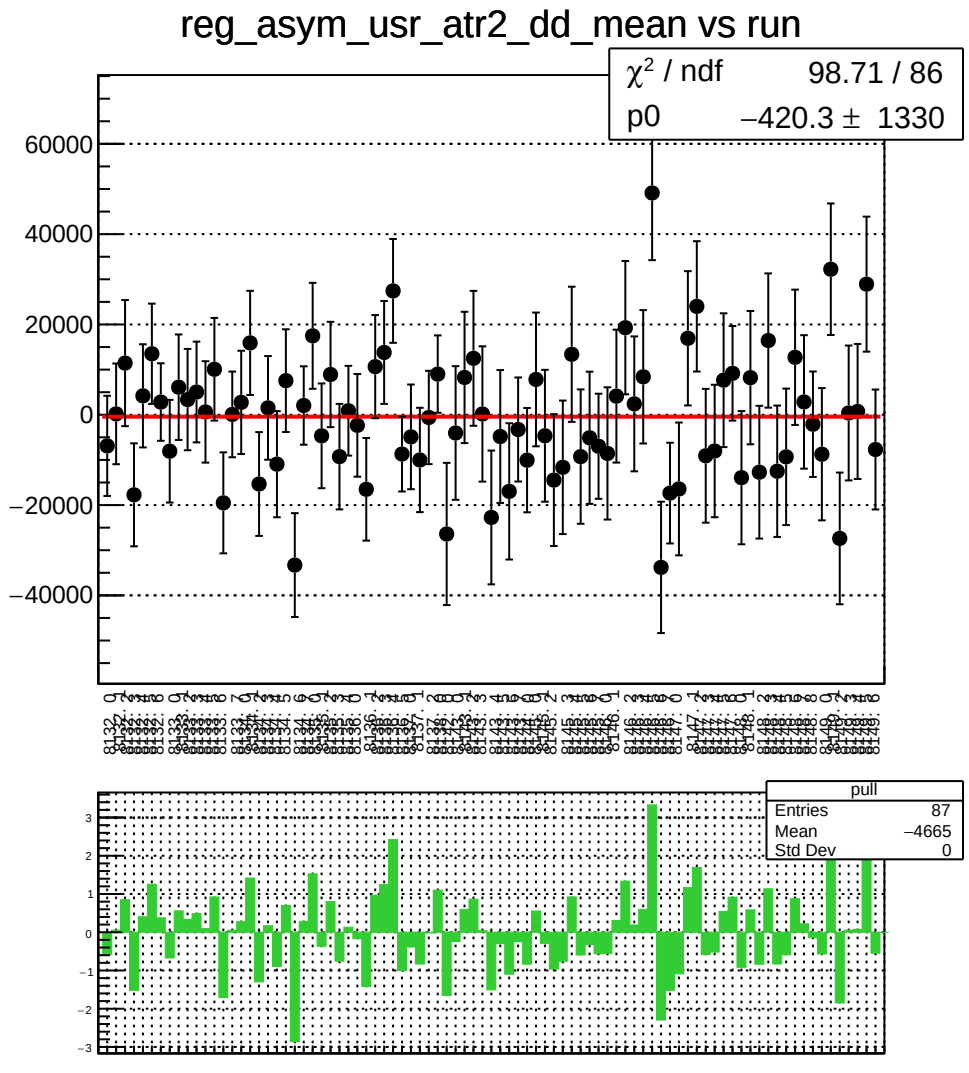

pull1D
Entries 87
Mean −0.008218
Std Dev 0.8998

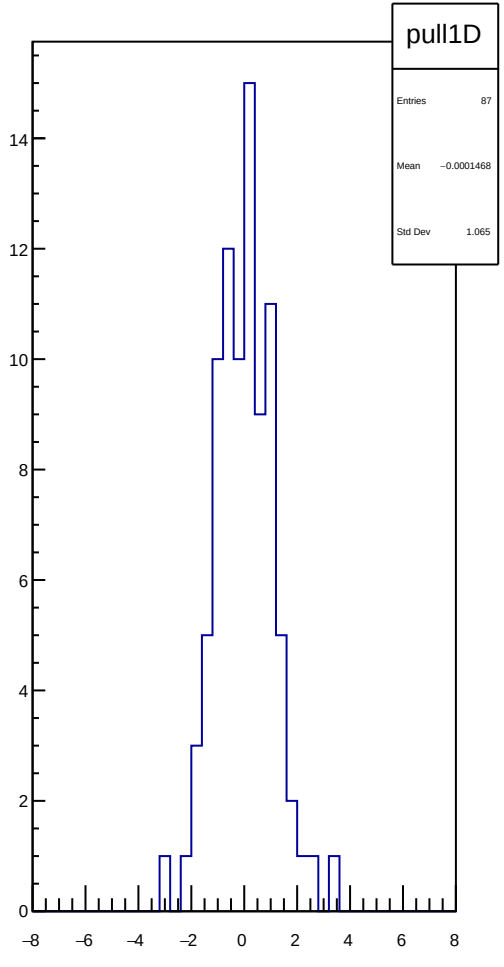

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.715e+04 / 86
p0 183.2 ± 0.1408
450
400
350
300
250
200
150

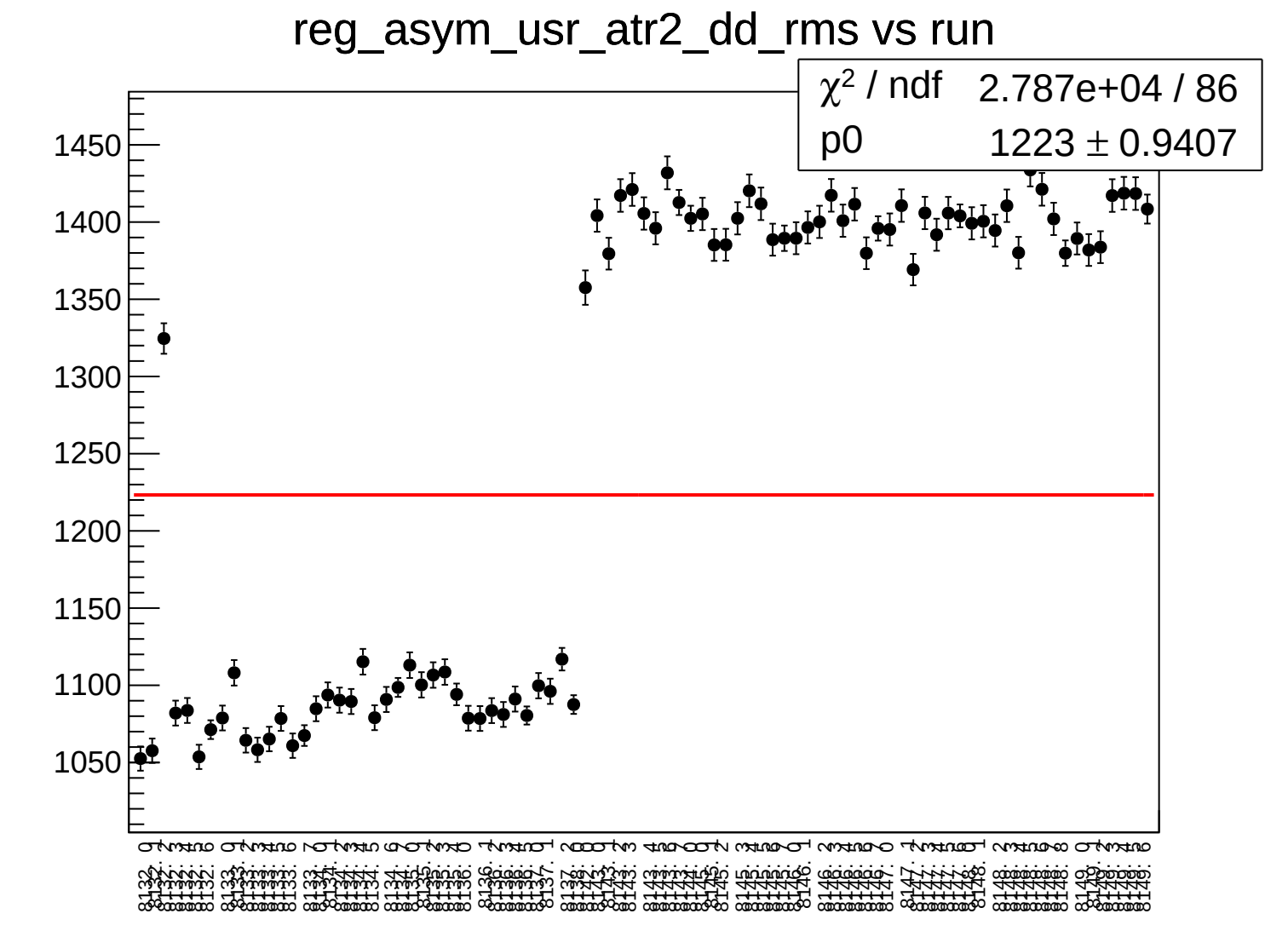

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.48 / 86
p0 −2.318e−13 ± 4.037e−13
pull
Entries 87
Mean 82.49
Std Dev 47.36

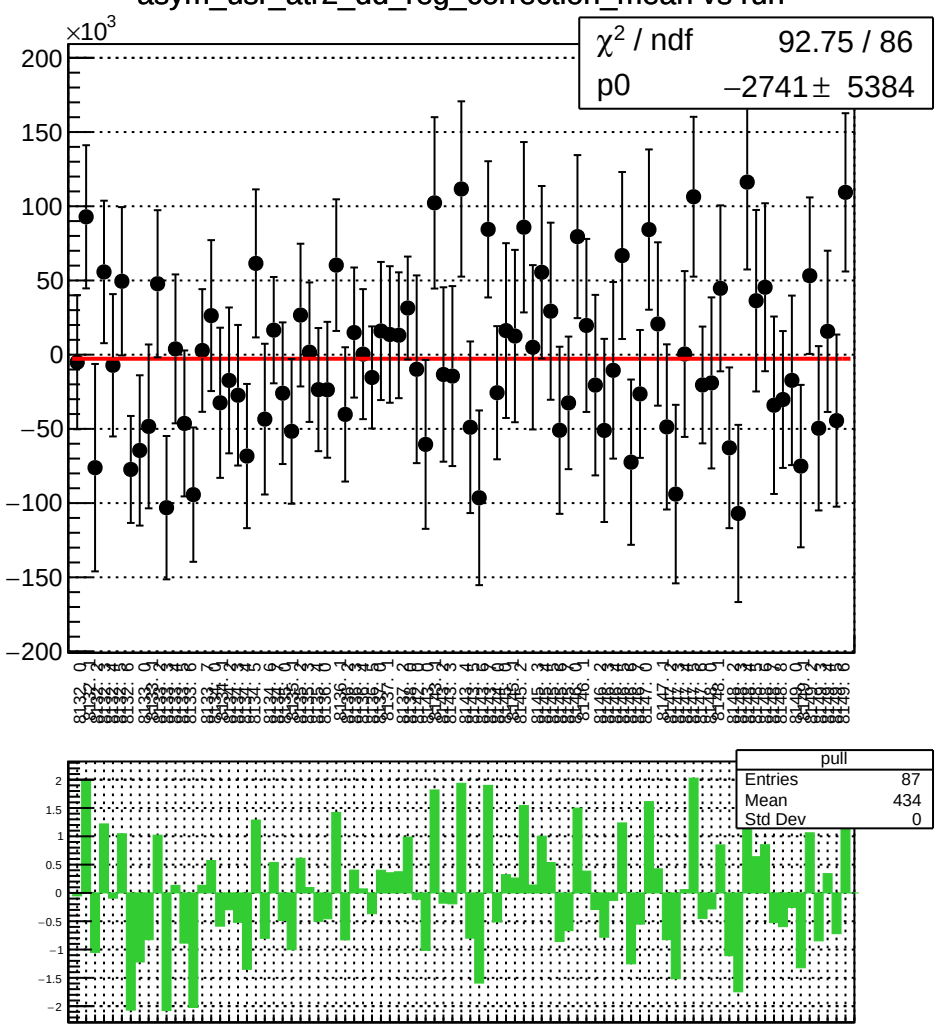

pull1D
Entries 87
Mean 0.0365
Std Dev 0.943

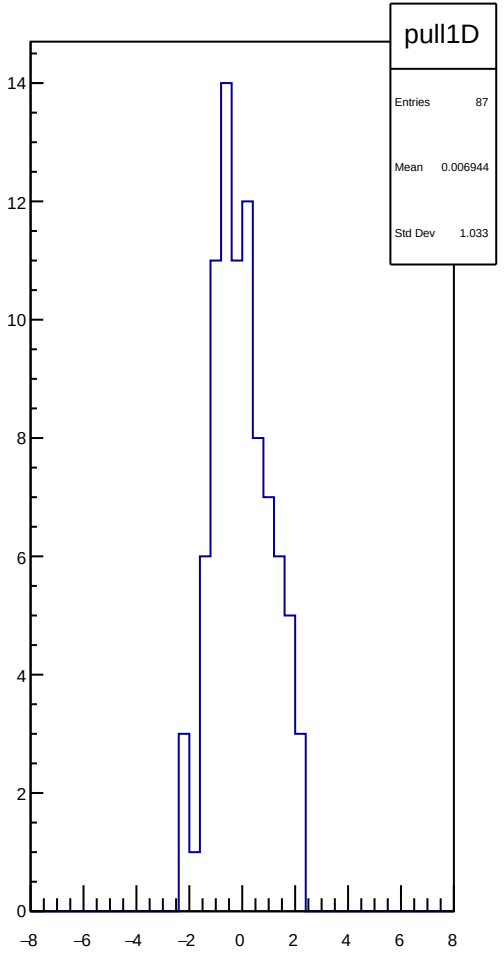

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
2.5
2
1.5
1
0.5
χ² / ndf 7.695e+05 / 86
p0 2.781e−10 ± 2.854e−13

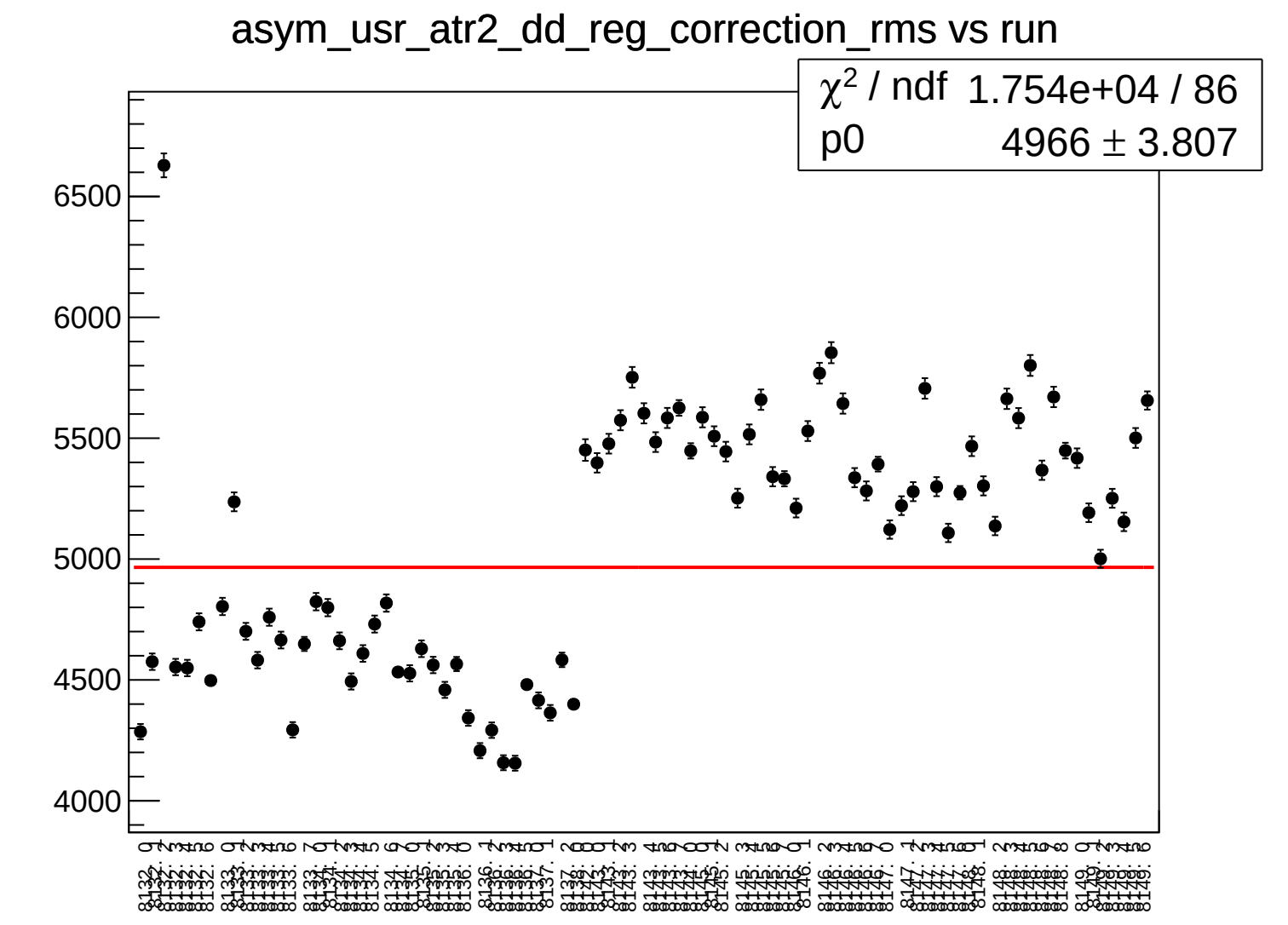

reg_asym_usr_atr2_dd_mean vs run
χ² / ndf 98.71 / 86
p0 −420.3 ± 1330
60000
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −4665
Std Dev 0
3
2
1
0
−1
−2
−3

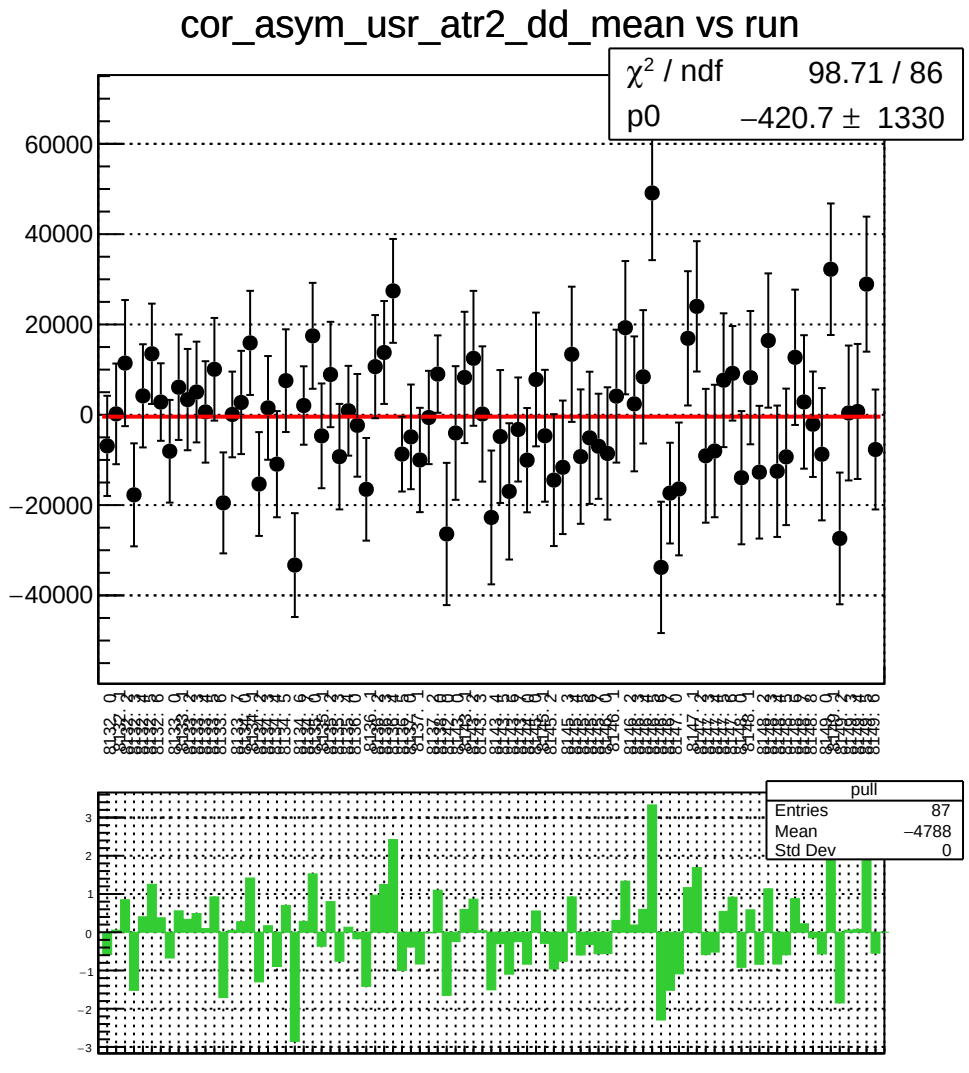

pull1D
Entries 87
Mean −0.0001468
Std Dev 1.065
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

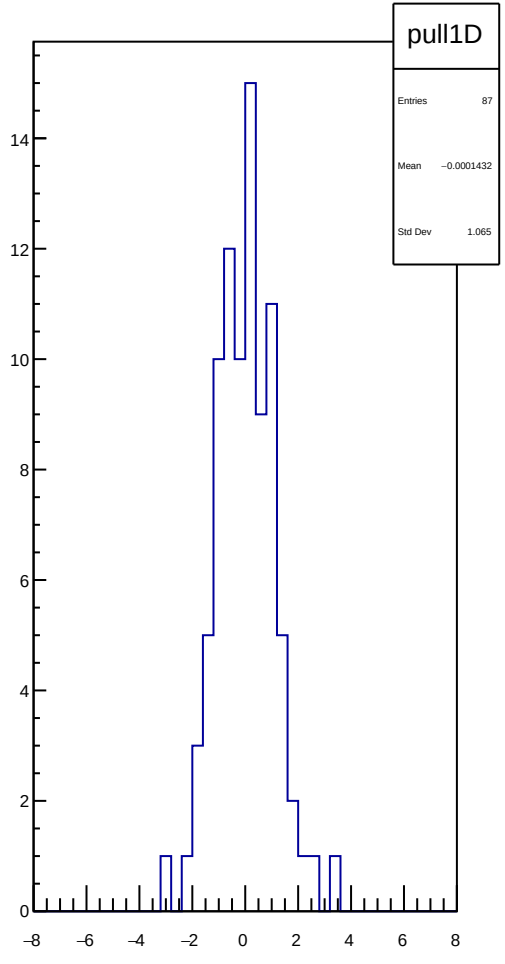

reg_asym_usr_atr2_dd_rms vs run
χ² / ndf 2.787e+04 / 86
p0 1223 ± 0.9407
1450
1400
1350
1300
1250
1200
1150
1100
1050

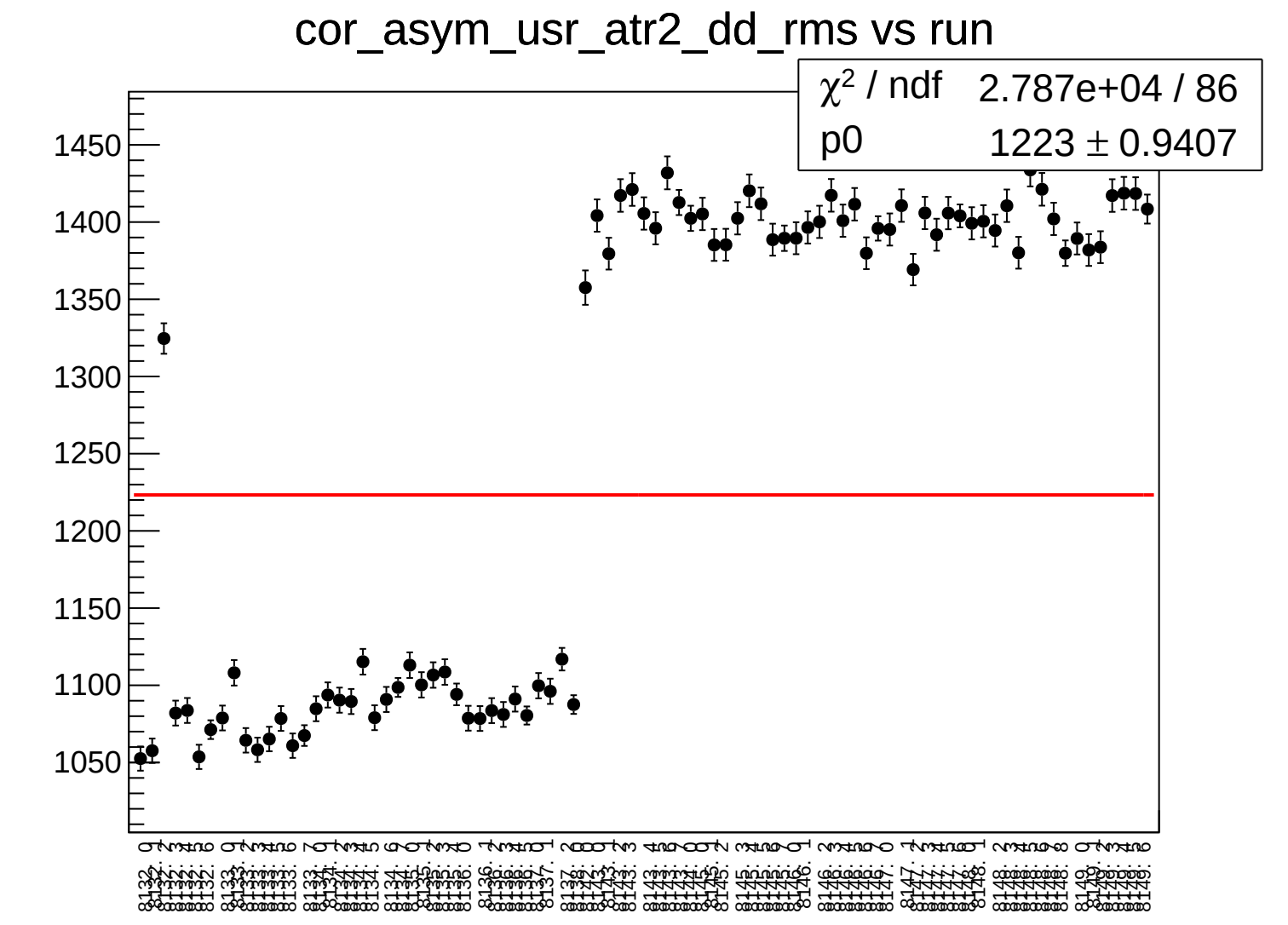

asym_usr_atr2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 92.75 / 86
p0 −2741 ± 5384
pull
Entries 87
Mean 434
Std Dev 0

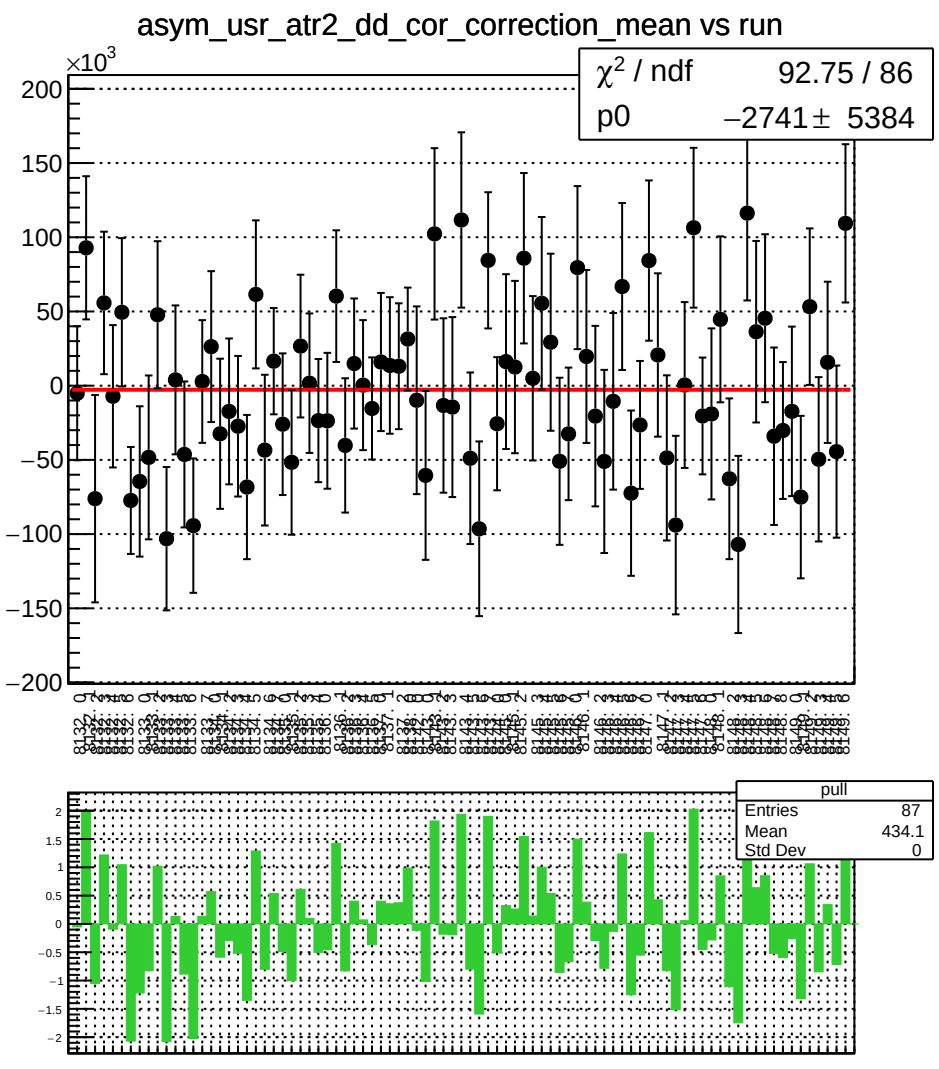

pull1D
Entries 87
Mean 0.006944
Std Dev 1.033

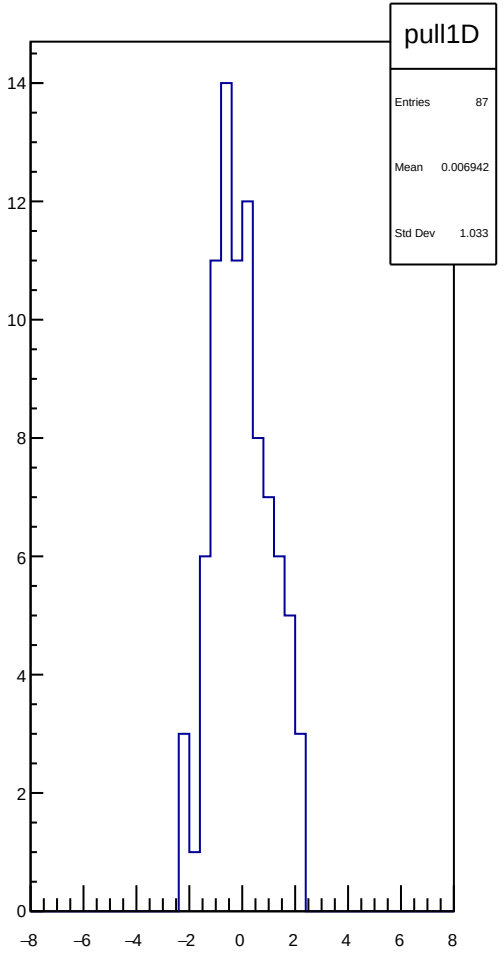

asym_usr_atr2_dd_reg_correction_rms vs run
χ² / ndf 1.754e+04 / 86
p0 4966 ± 3.807
6500
6000
5500
5000
4500
4000

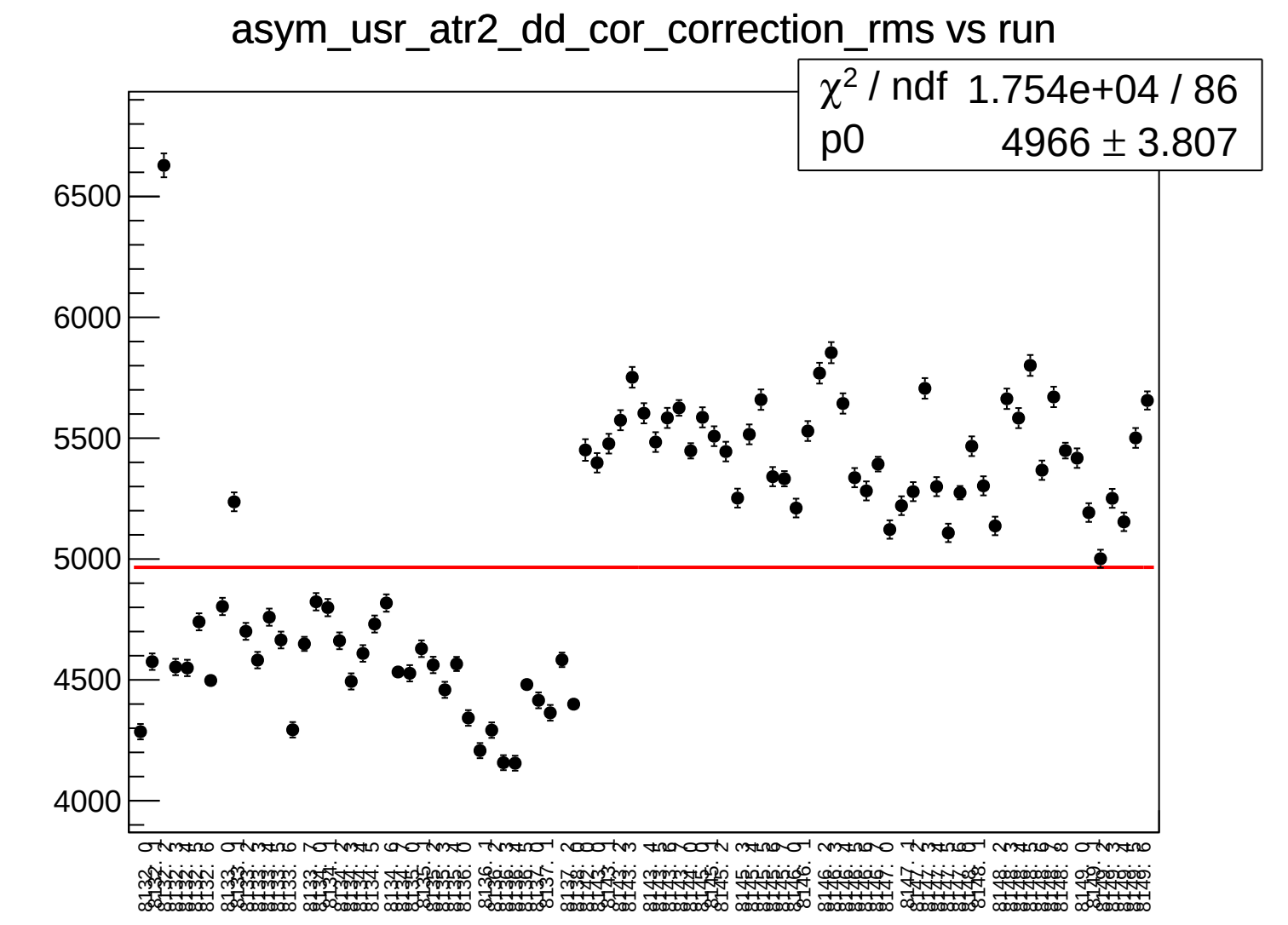

cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 98.71 / 86
p0 −420.7 ± 1330
60000
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −4788
Std Dev 0
3
2
1
0
−1
−2
−3

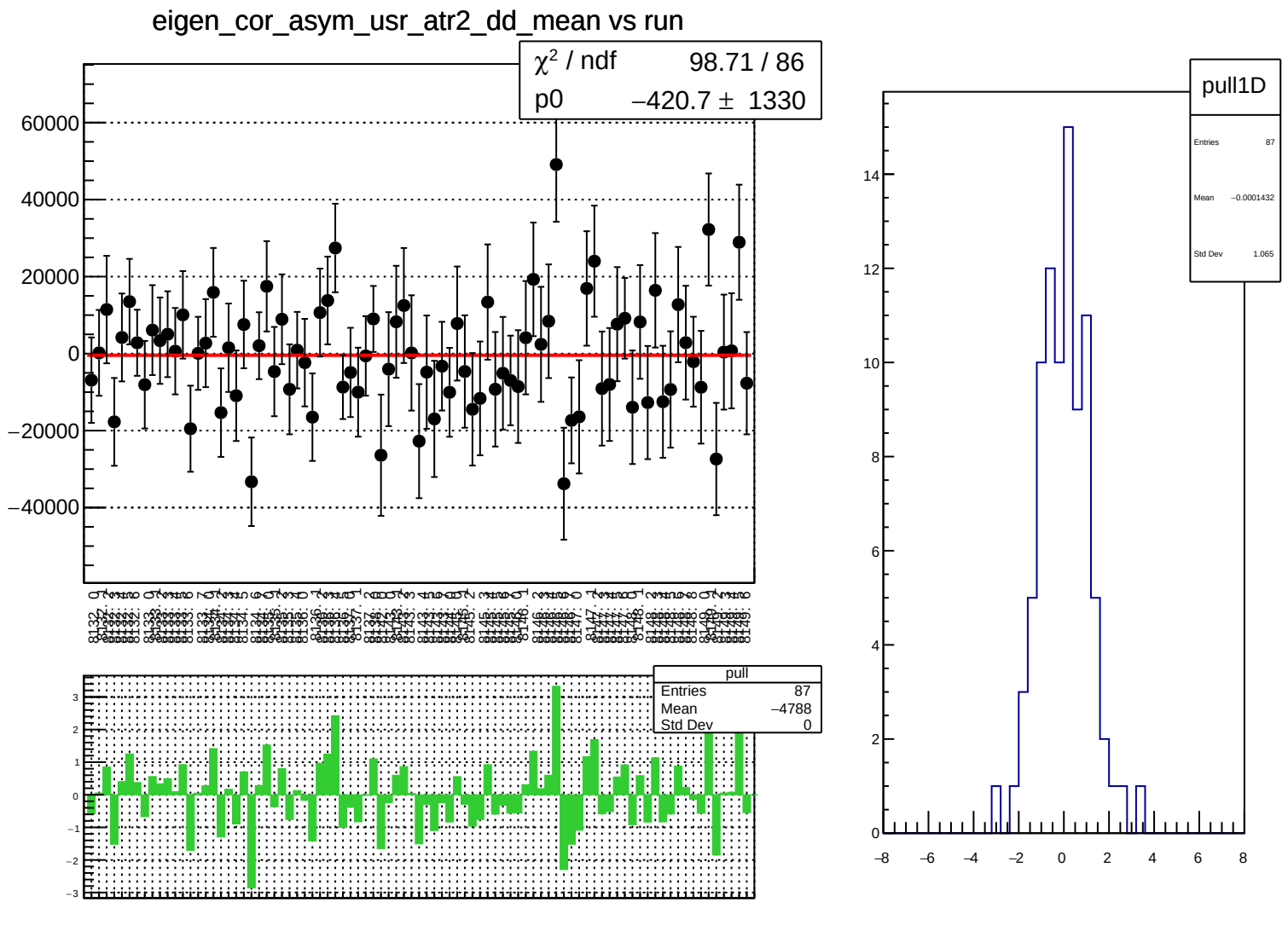

pull1D
Entries 87
Mean −0.0001432
Std Dev 1.065
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

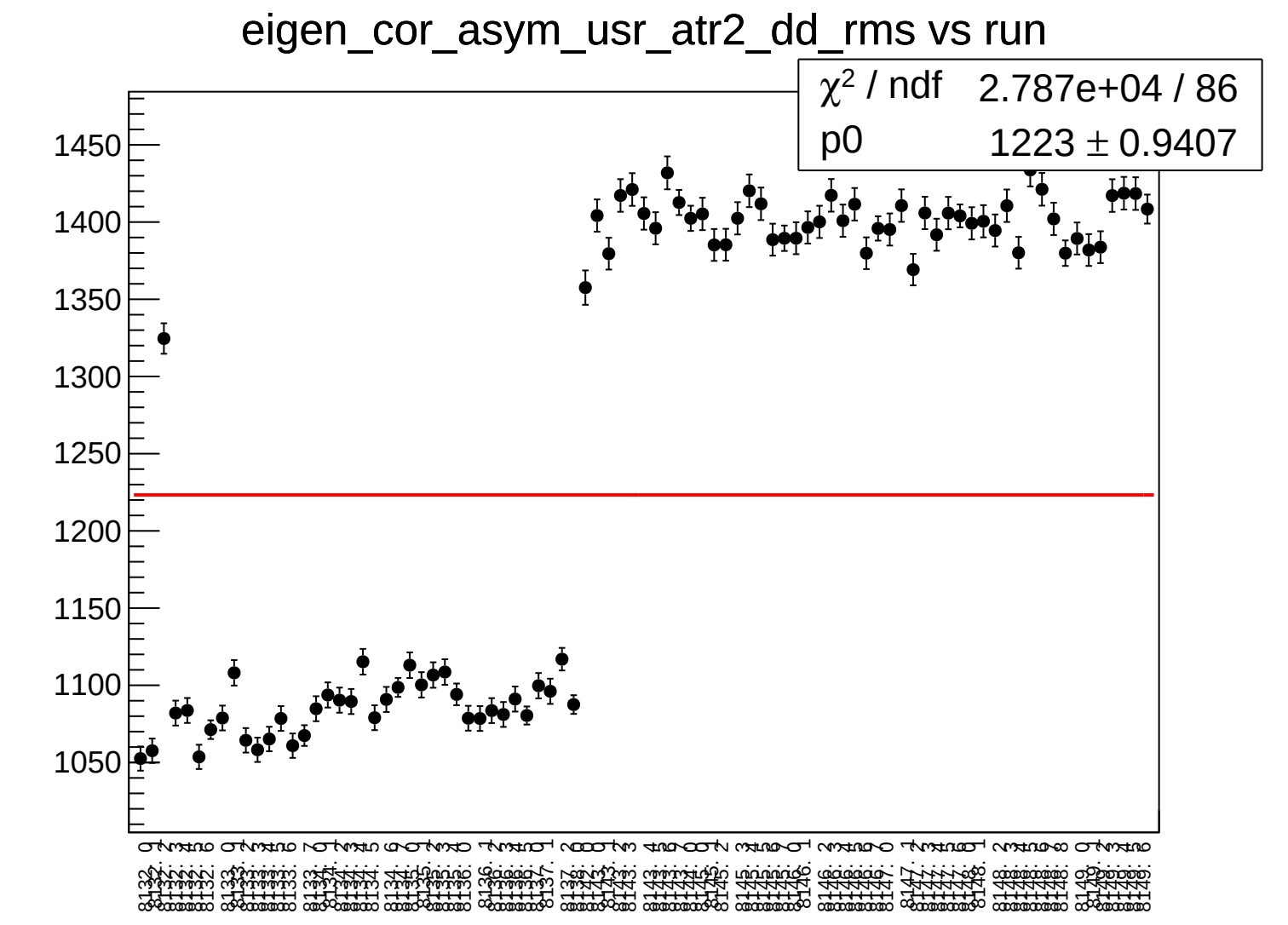

cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 2.787e+04 / 86
p0 1223 ± 0.9407
1450
1400
1350
1300
1250
1200
1150
1100
1050

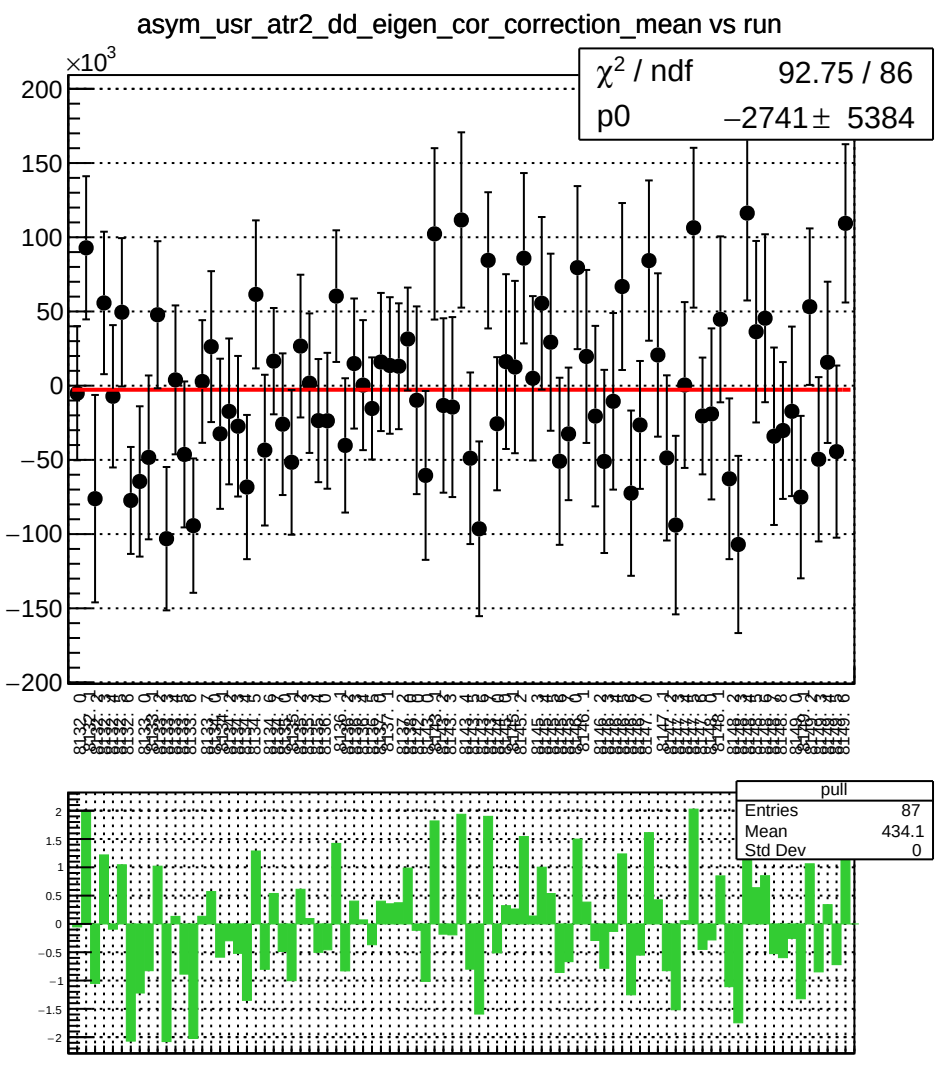

asym_usr_atr2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 92.75 / 86
p0 −2741 ± 5384
pull
Entries 87
Mean 434.1
Std Dev 0

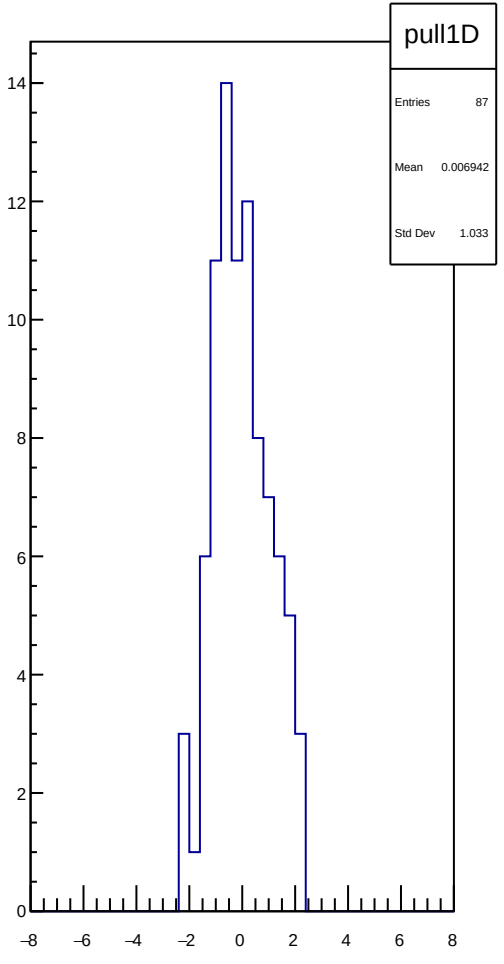

pull1D
Entries 87
Mean 0.006942
Std Dev 1.033

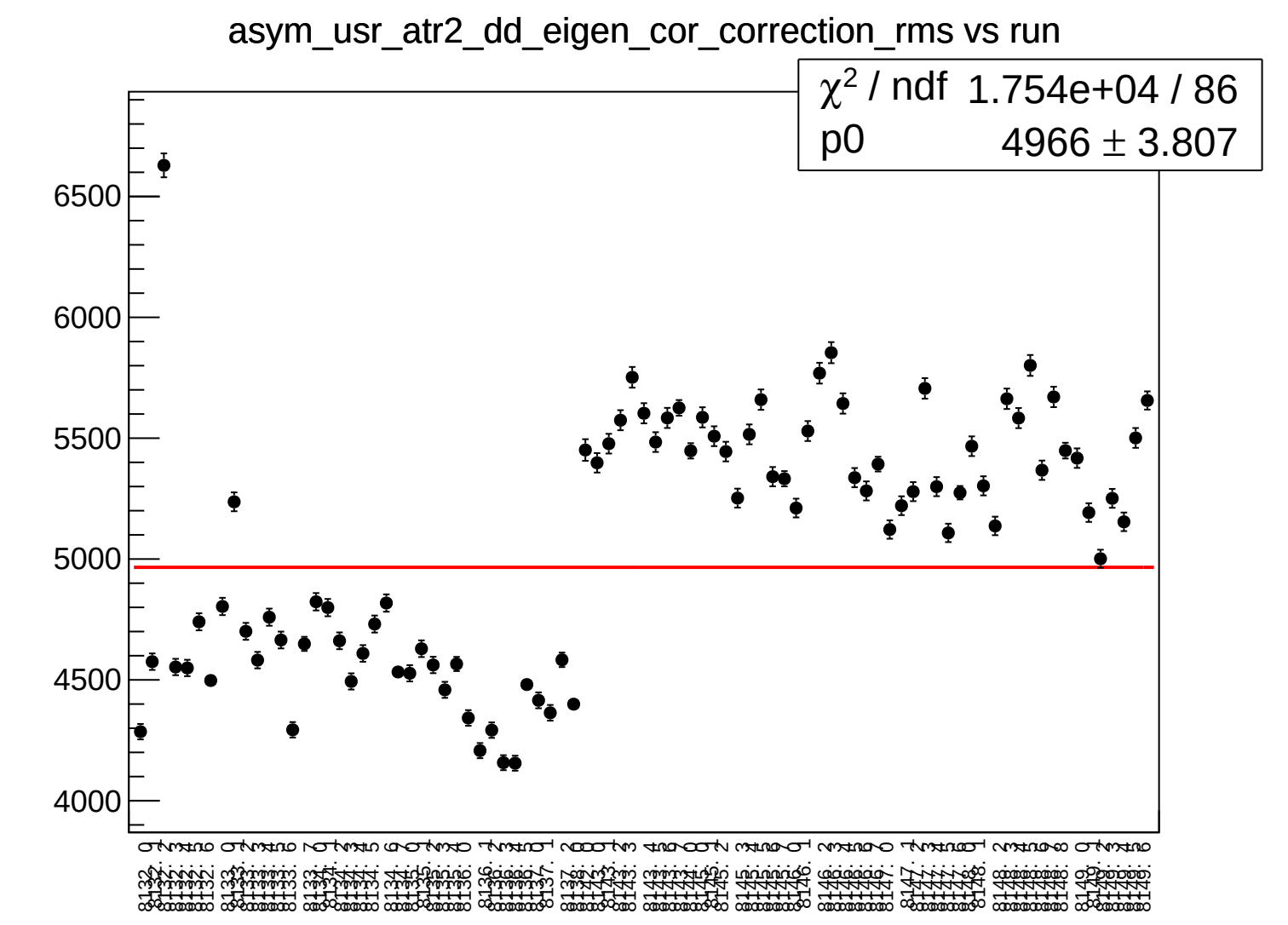

asym_usr_atr2_dd_cor_correction_rms vs run
χ² / ndf 1.754e+04 / 86
p0 4966 ± 3.807
6500
6000
5500
5000
4500
4000

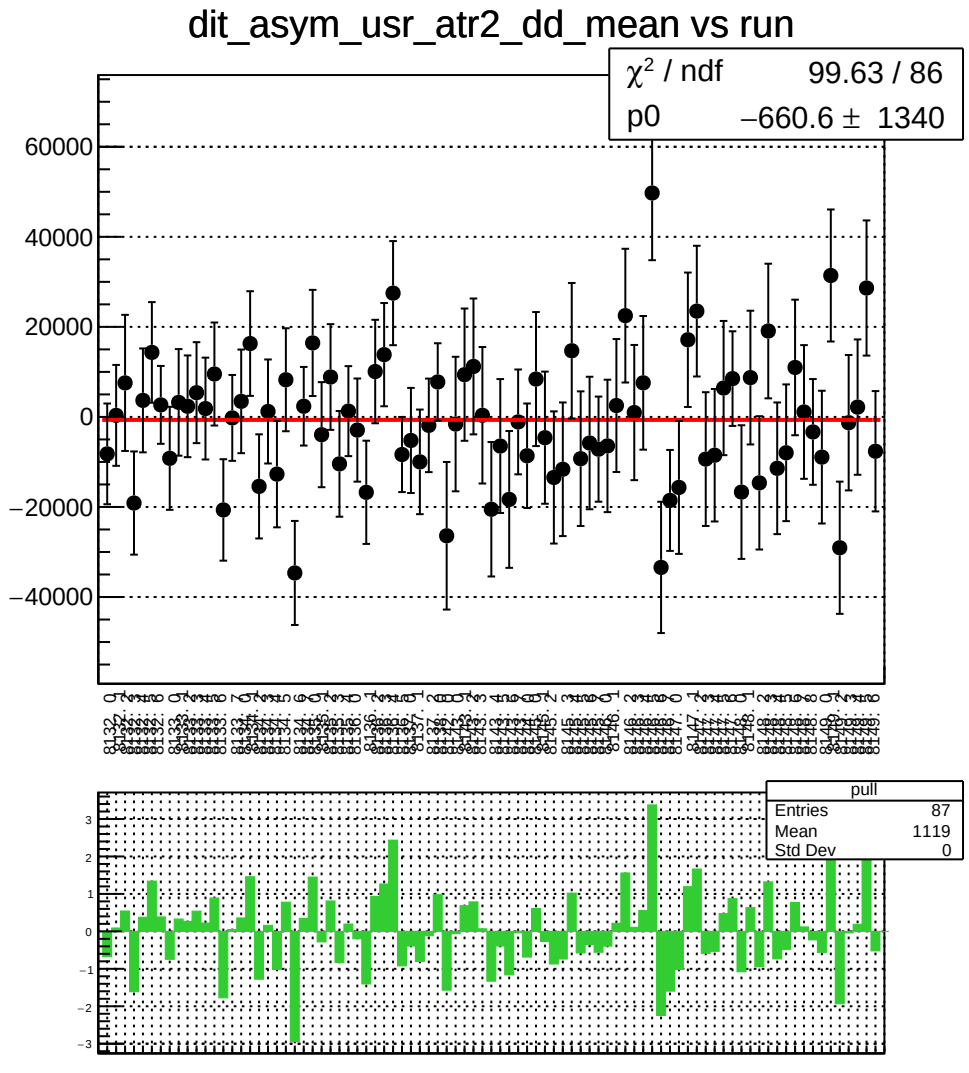

eigen_cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 98.71 / 86
p0 −420.7 ± 1330
60000
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −4788
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean −0.0001432
Std Dev 1.065
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

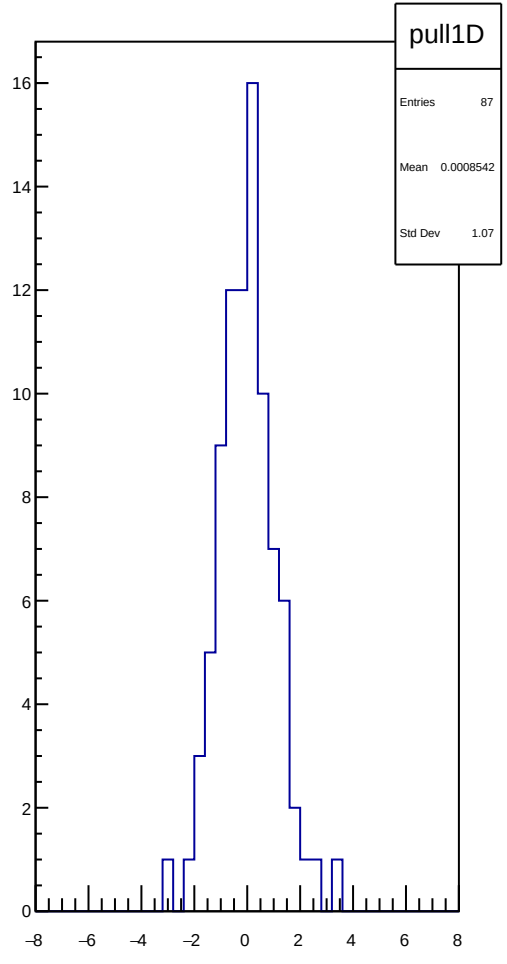

eigen_cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 2.787e+04 / 86
p0 1223 ± 0.9407
1450
1400
1350
1300
1250
1200
1150
1100
1050

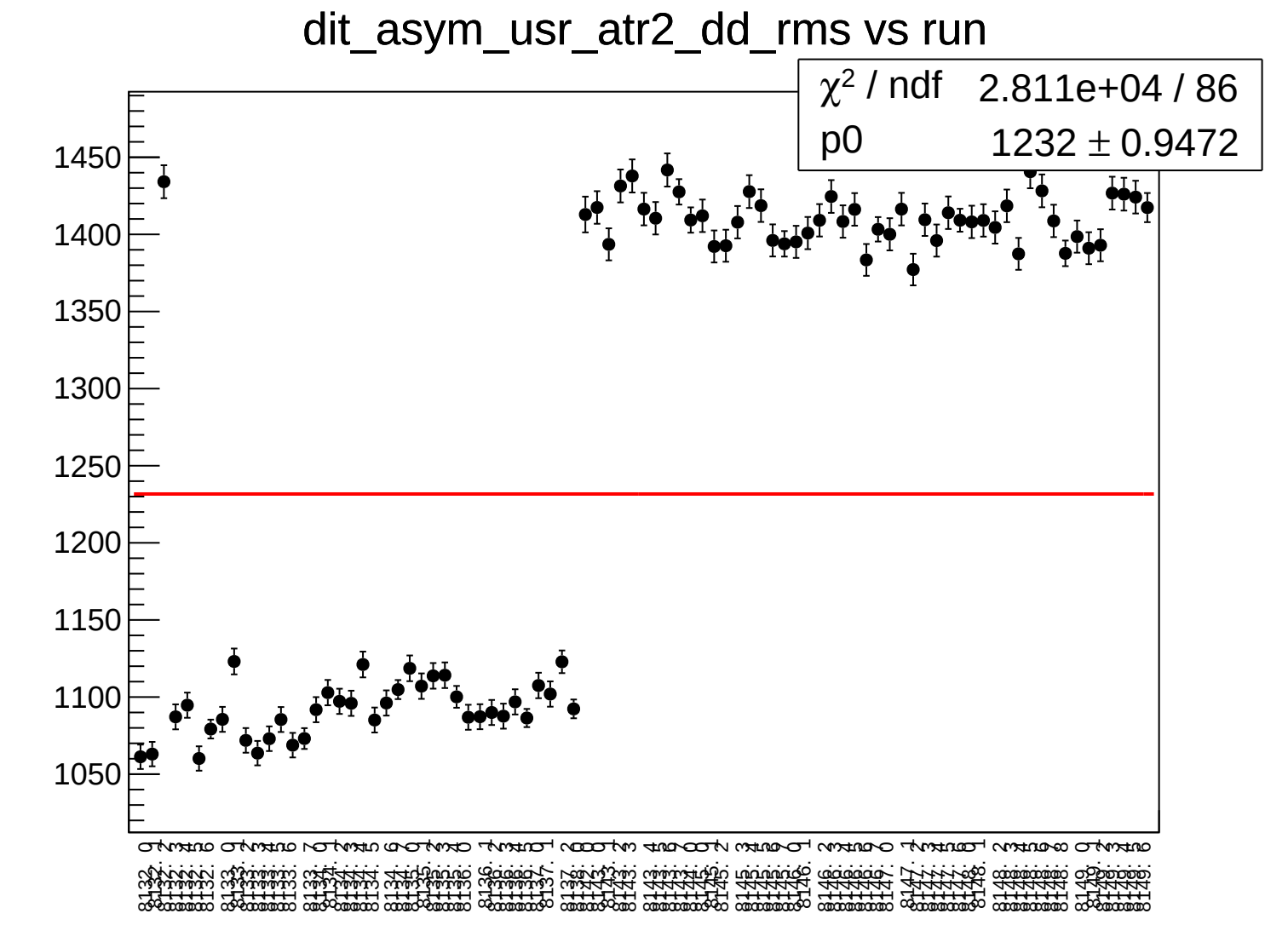

asym_usr_atr2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 92.75 / 86
p0 −2741 ± 5384
pull
Entries 87
Mean 434.1
Std Dev 0

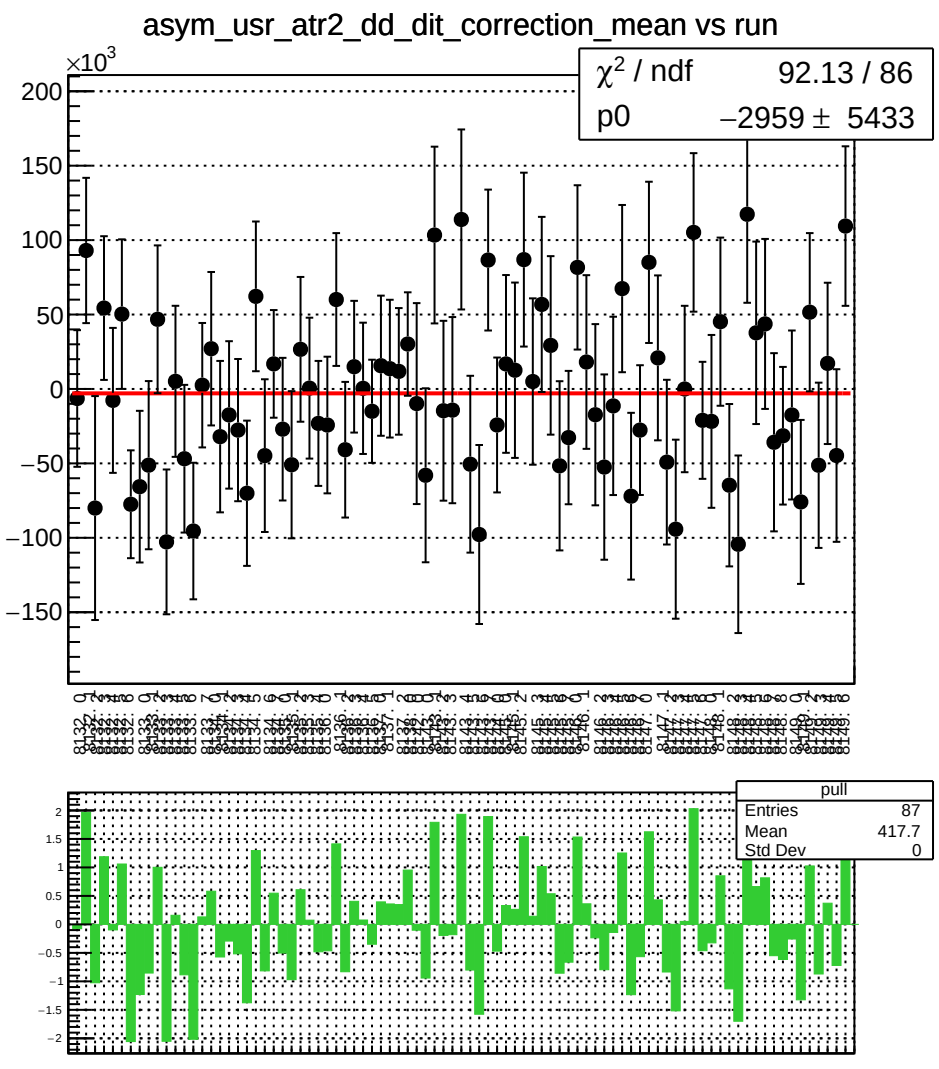

pull1D
Entries 87
Mean 0.006942
Std Dev 1.033

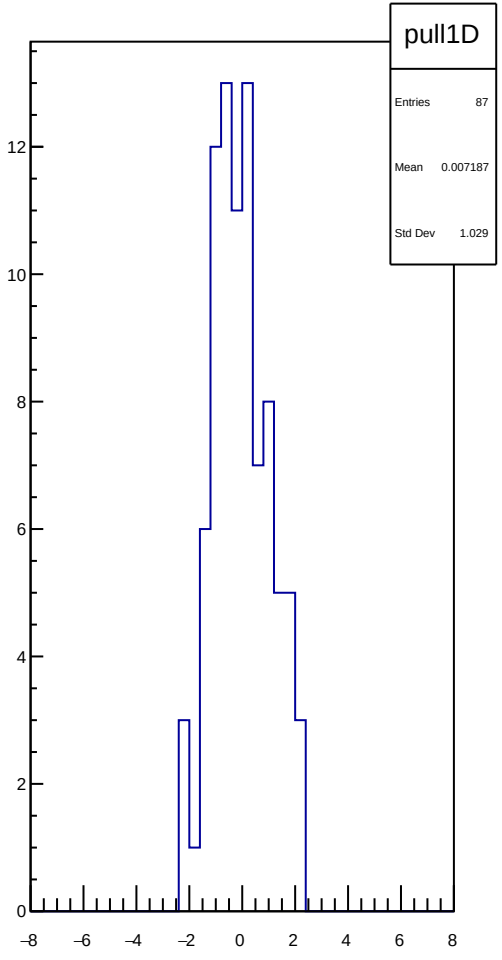

asym_usr_atr2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.754e+04 / 86
p0 4966 ± 3.807
6500
6000
5500
5000
4500
4000

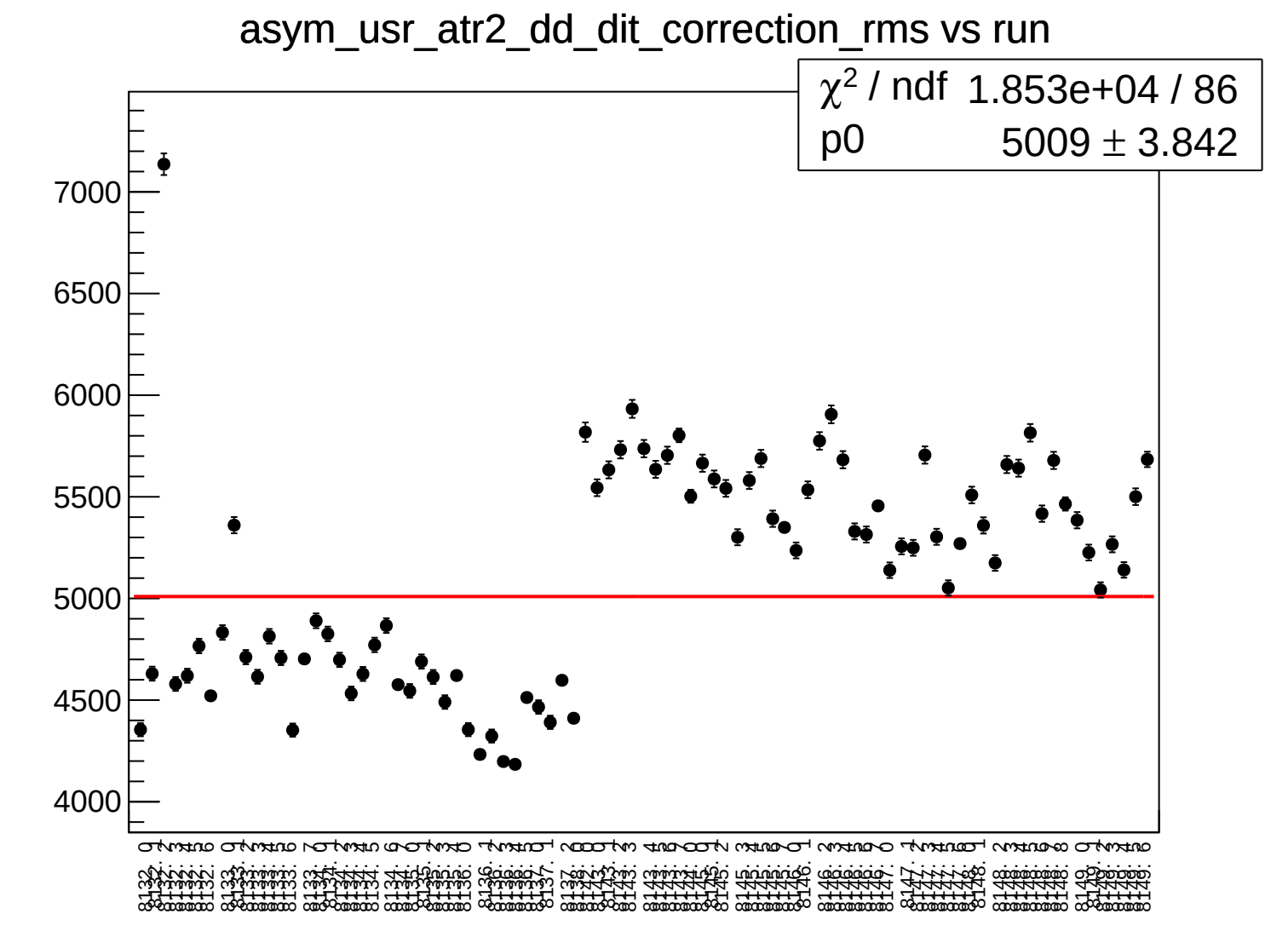

dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 99.63 / 86
p0 −660.6 ± 1340
60000
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 1119
Std Dev 0
3
2
1
0
−1
−2
−3

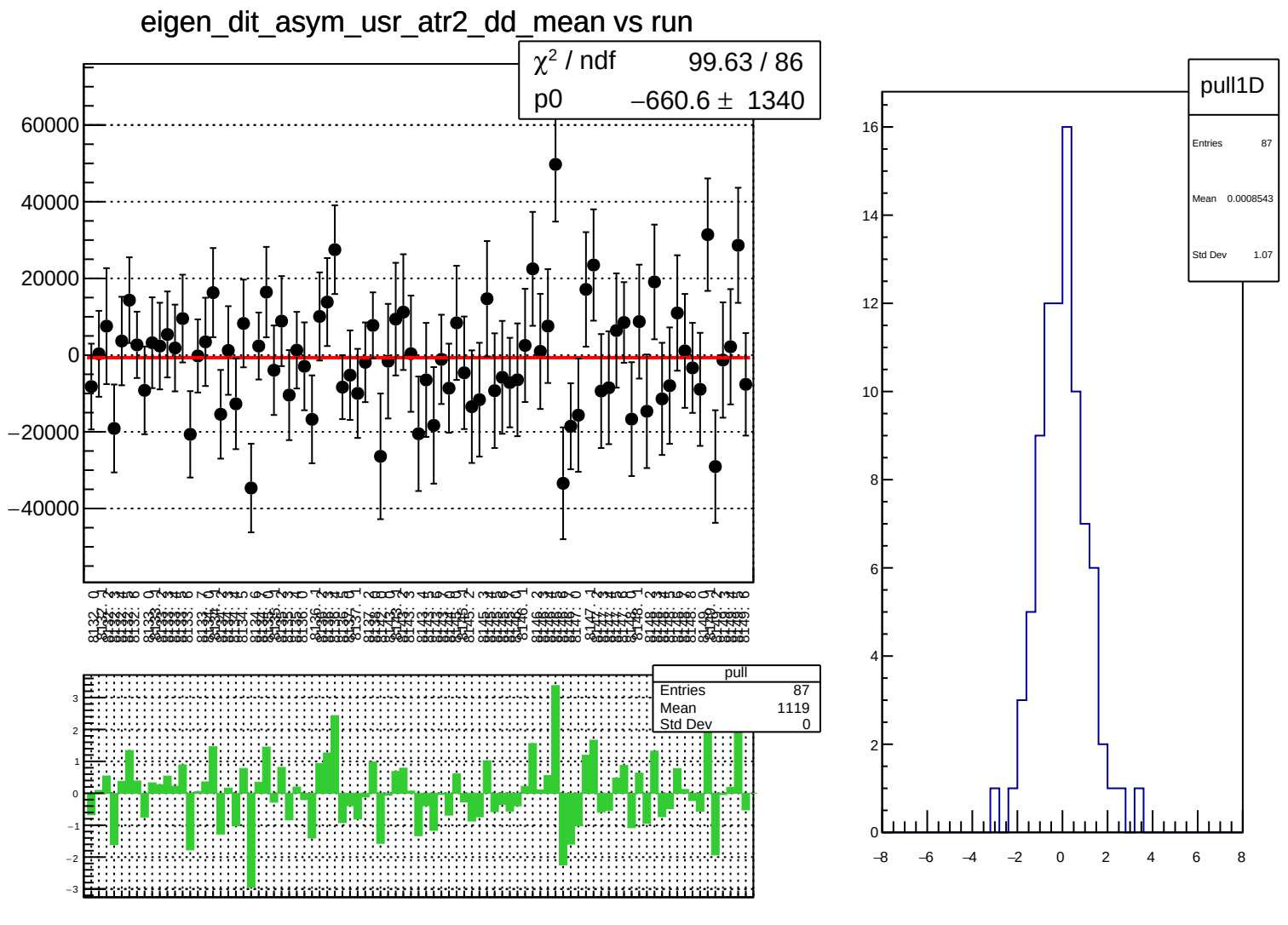

pull1D
Entries 87
Mean 0.0008542
Std Dev 1.07
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

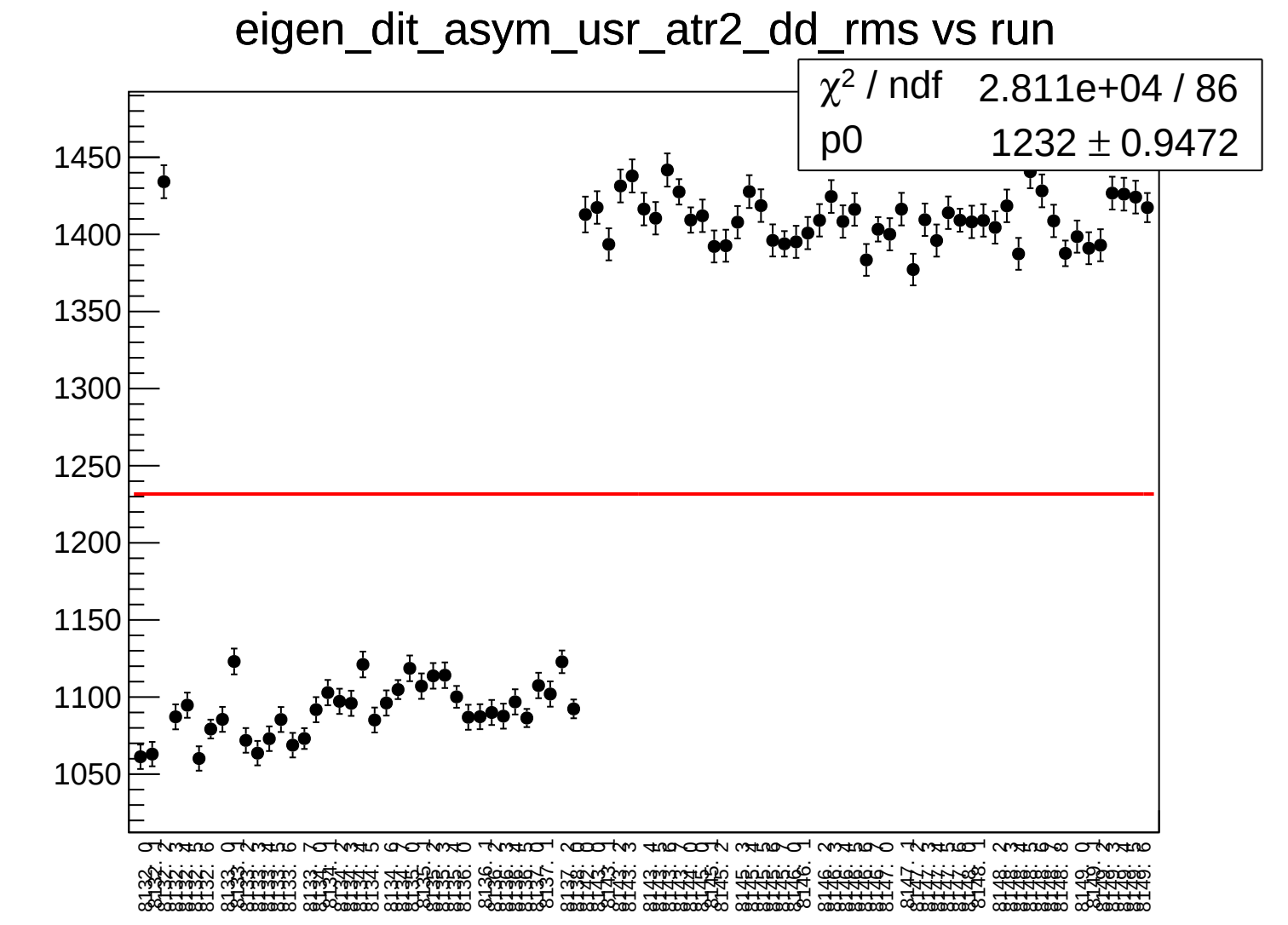

dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 2.811e+04 / 86
p0 1232 ± 0.9472
1450
1400
1350
1300
1250
1200
1150
1100
1050

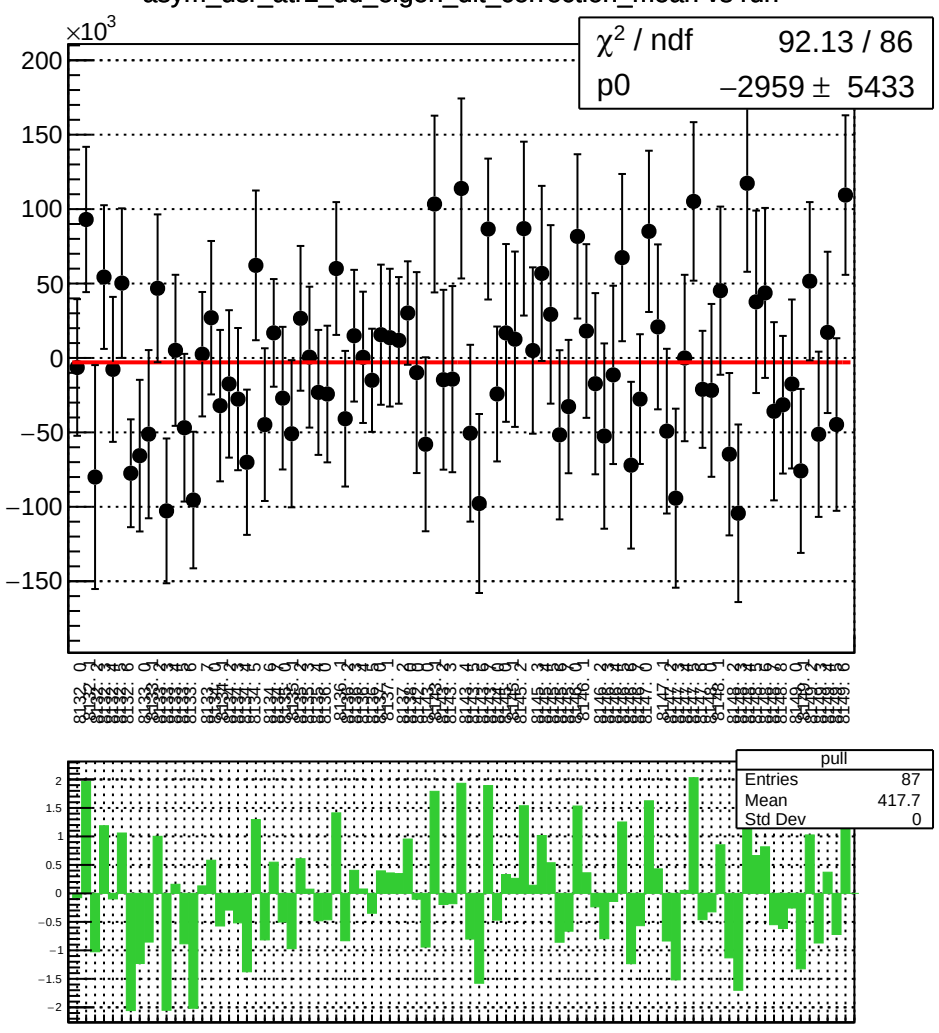

asym_usr_atr2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 92.13 / 86
p0 −2959 ± 5433
200
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean 417.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

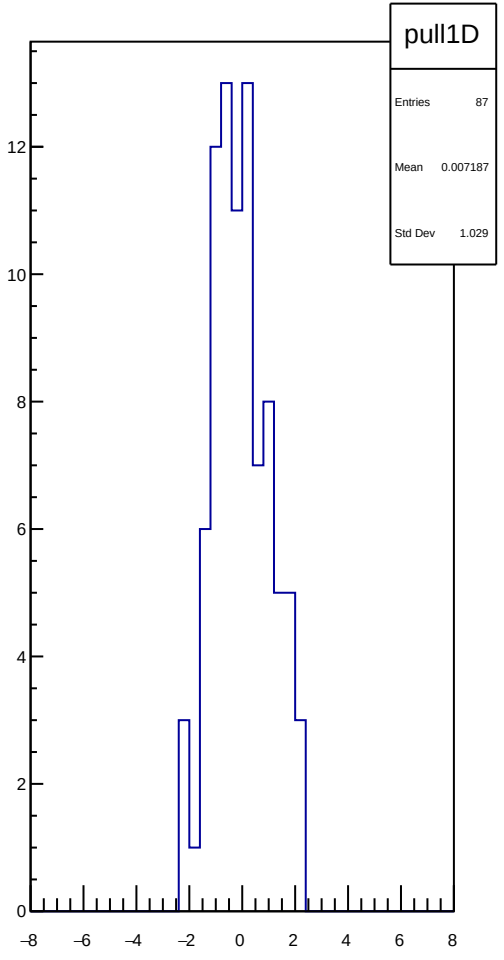

pull1D
Entries 87
Mean 0.007187
Std Dev 1.029
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

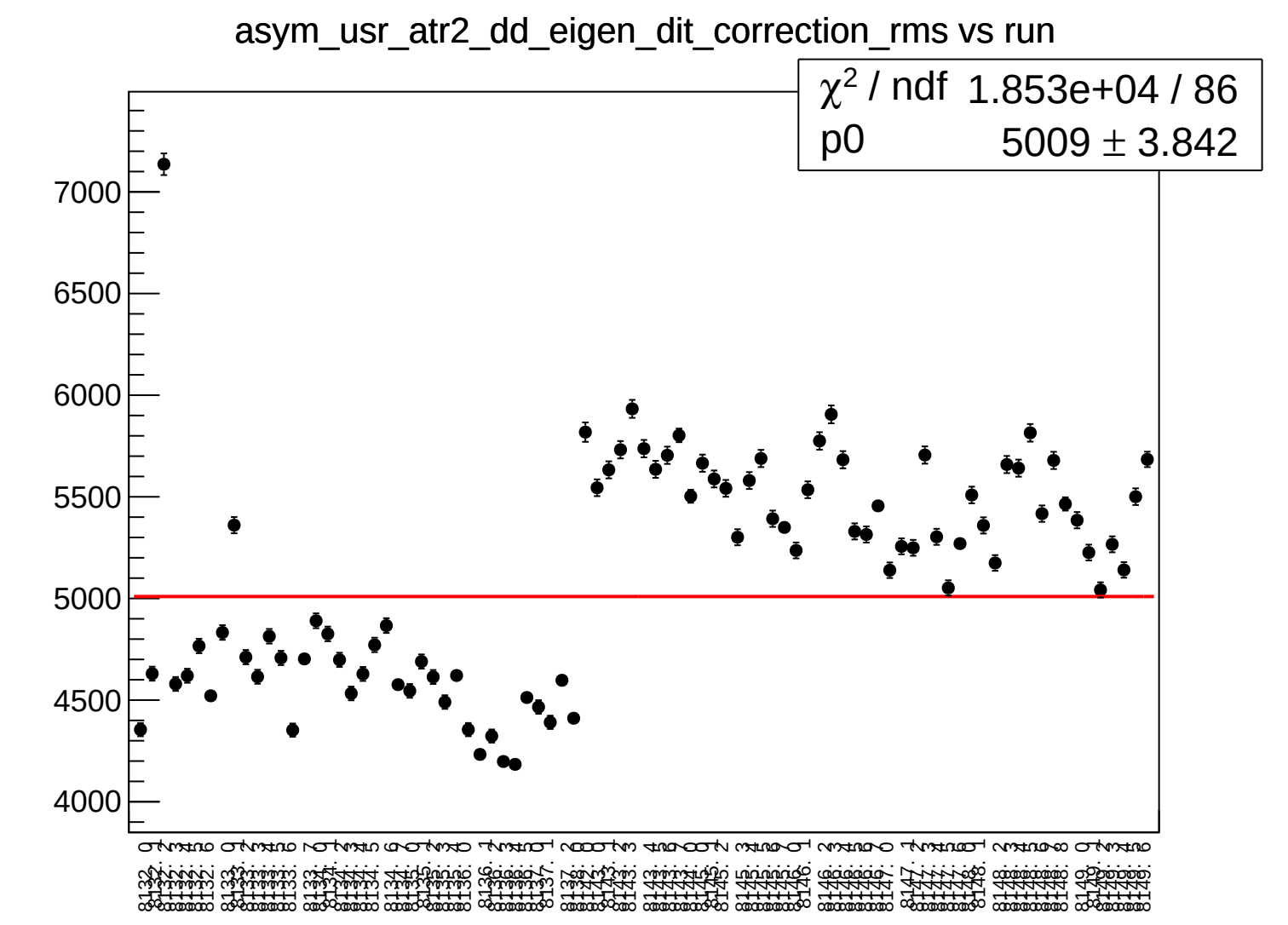

asym_usr_atr2_dd_dit_correction_rms vs run
χ² / ndf 1.853e+04 / 86
p0 5009 ± 3.842
7000
6500
6000
5500
5000
4500
4000

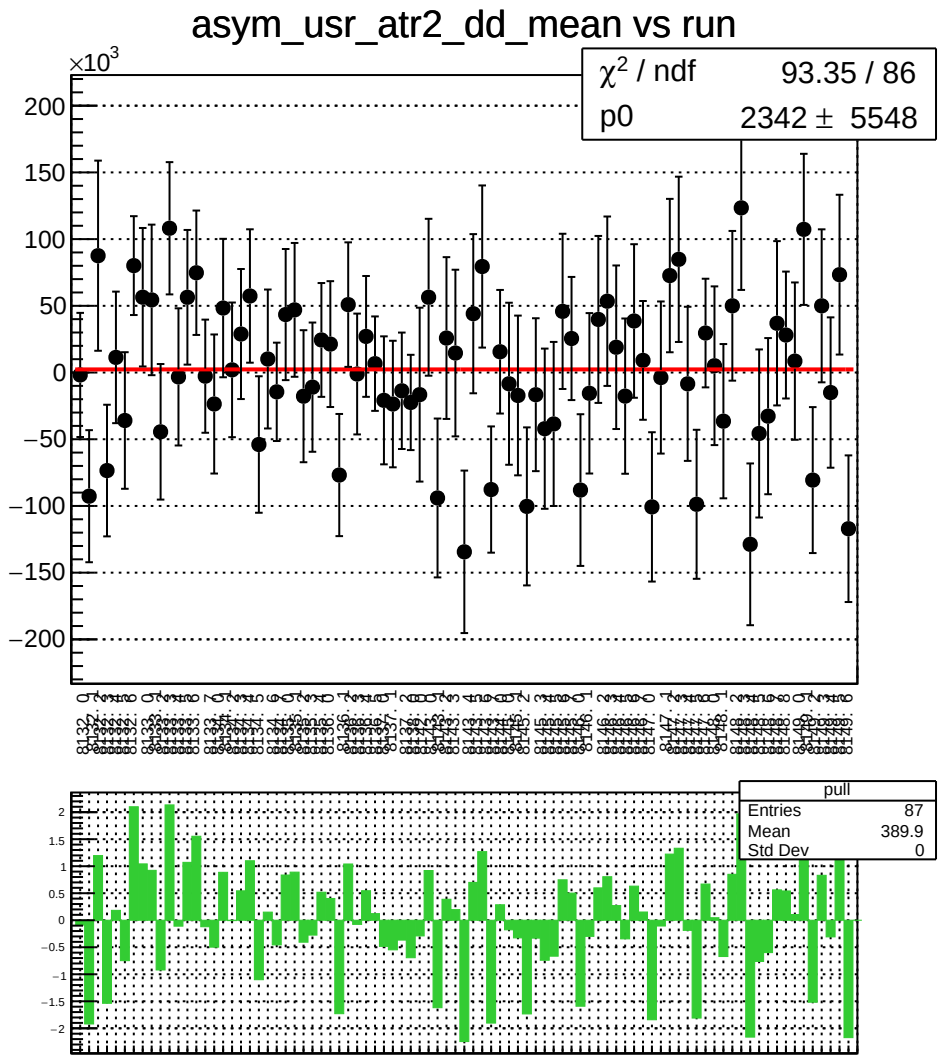

eigen_dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 99.63 / 86
p0 −660.6 ± 1340
60000
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 1119
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean 0.0008543
Std Dev 1.07
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

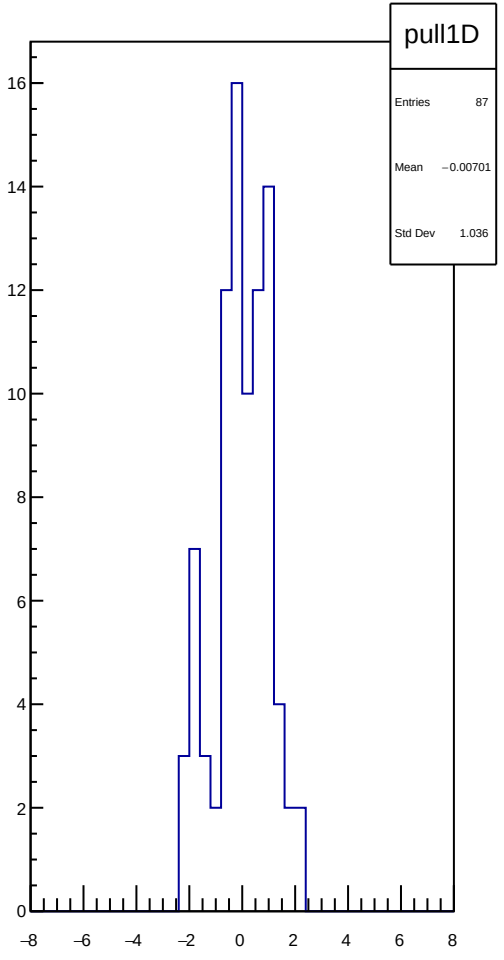

eigen_dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 2.811e+04 / 86
p0 1232 ± 0.9472
1450
1400
1350
1300
1250
1200
1150
1100
1050

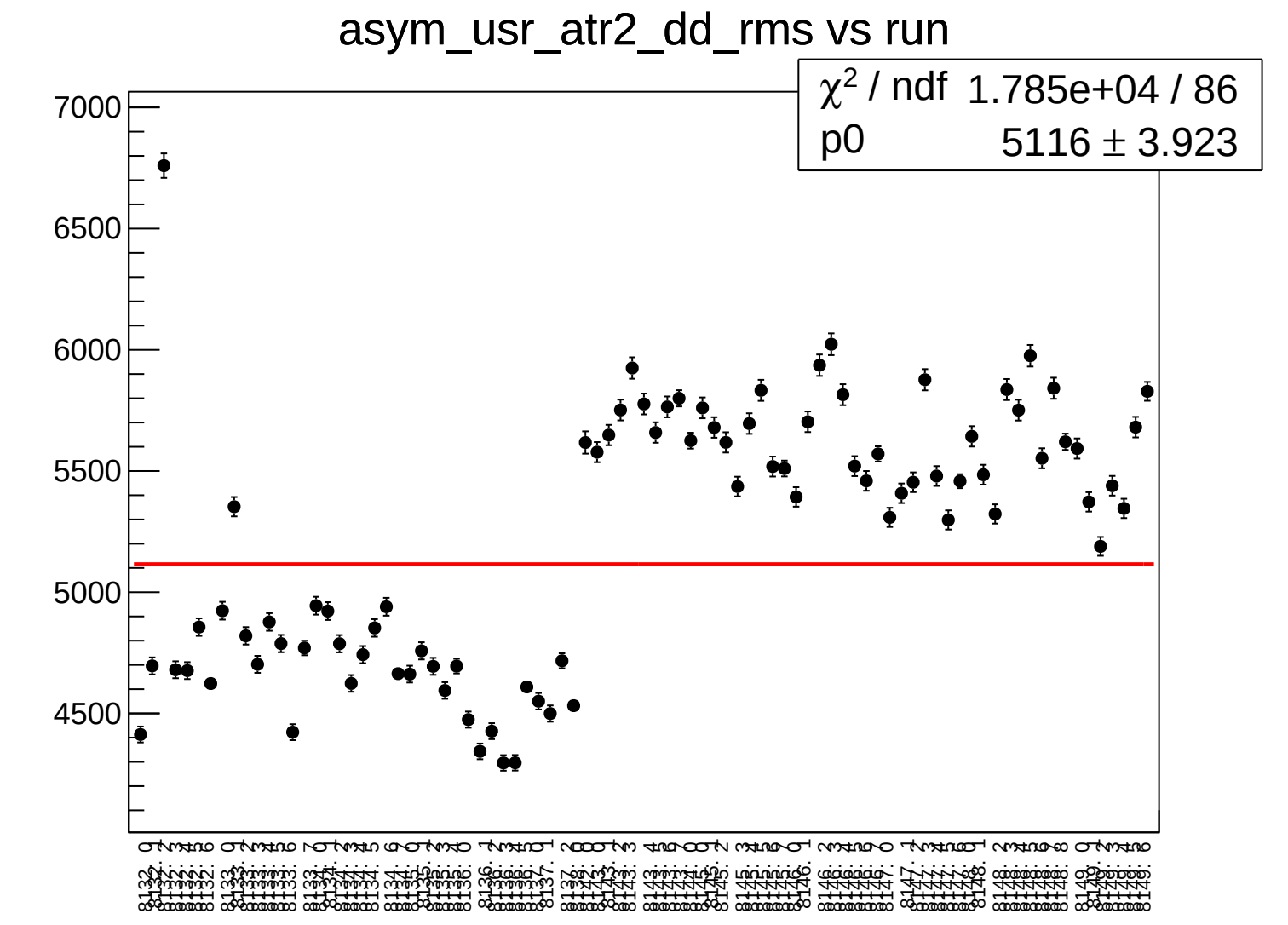

asym_usr_atr2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 92.13 / 86
p0 −2959 ± 5433
pull
Entries 87
Mean 417.7
Std Dev 0

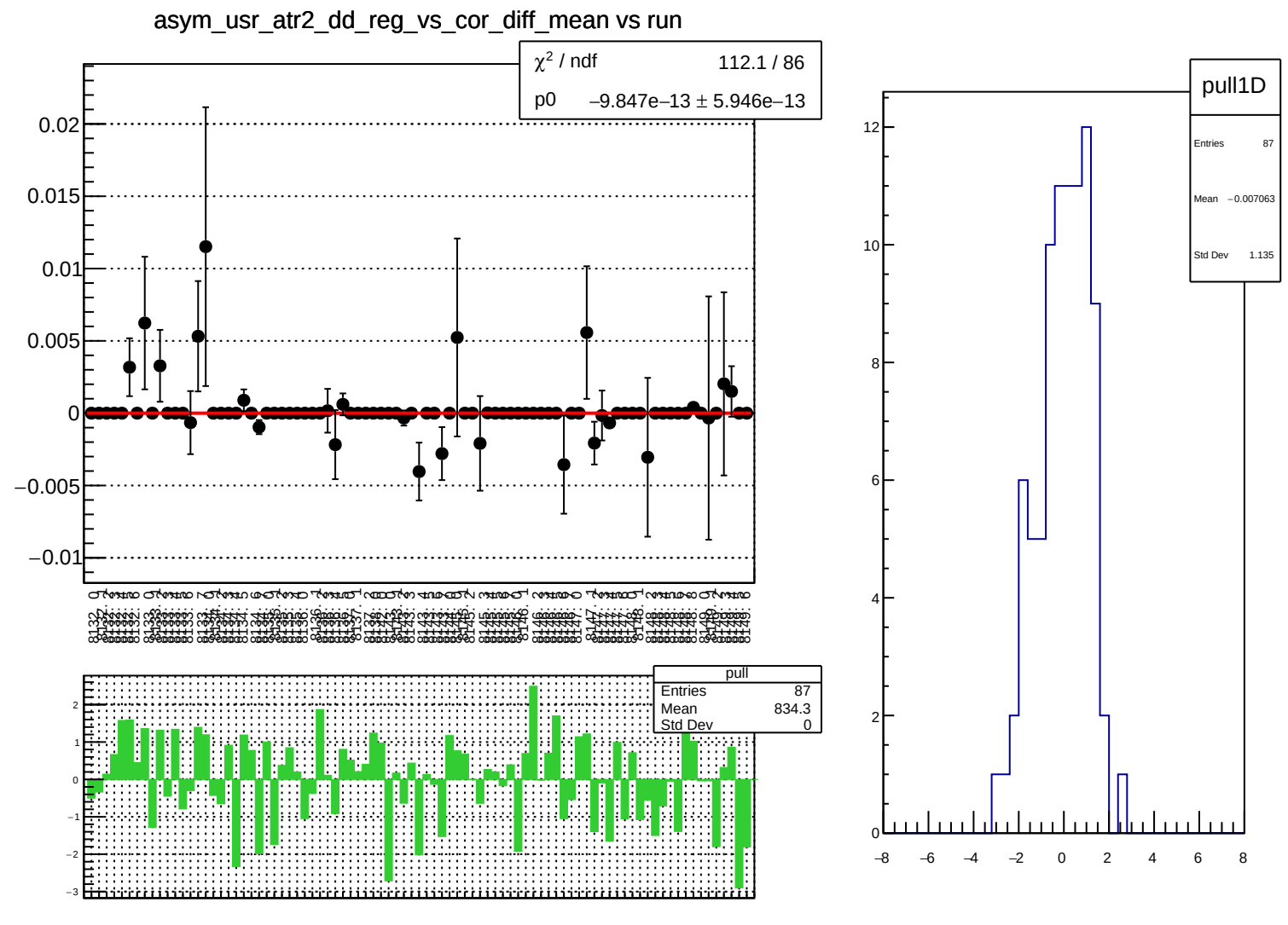

pull1D
Entries 87
Mean 0.007187
Std Dev 1.029

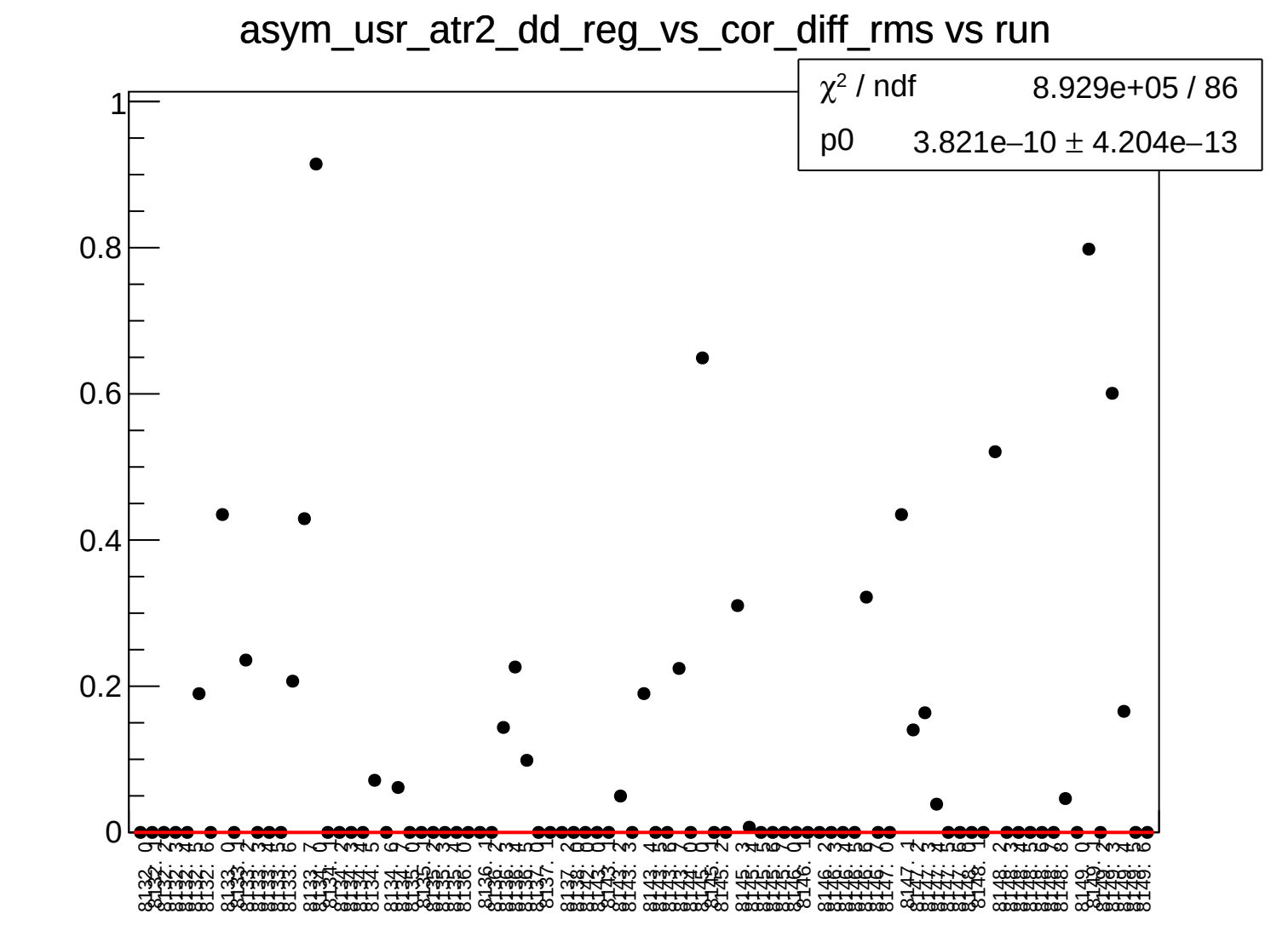

asym_usr_atr2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.853e+04 / 86
p0 5009 ± 3.842
7000
6500
6000
5500
5000
4500
4000

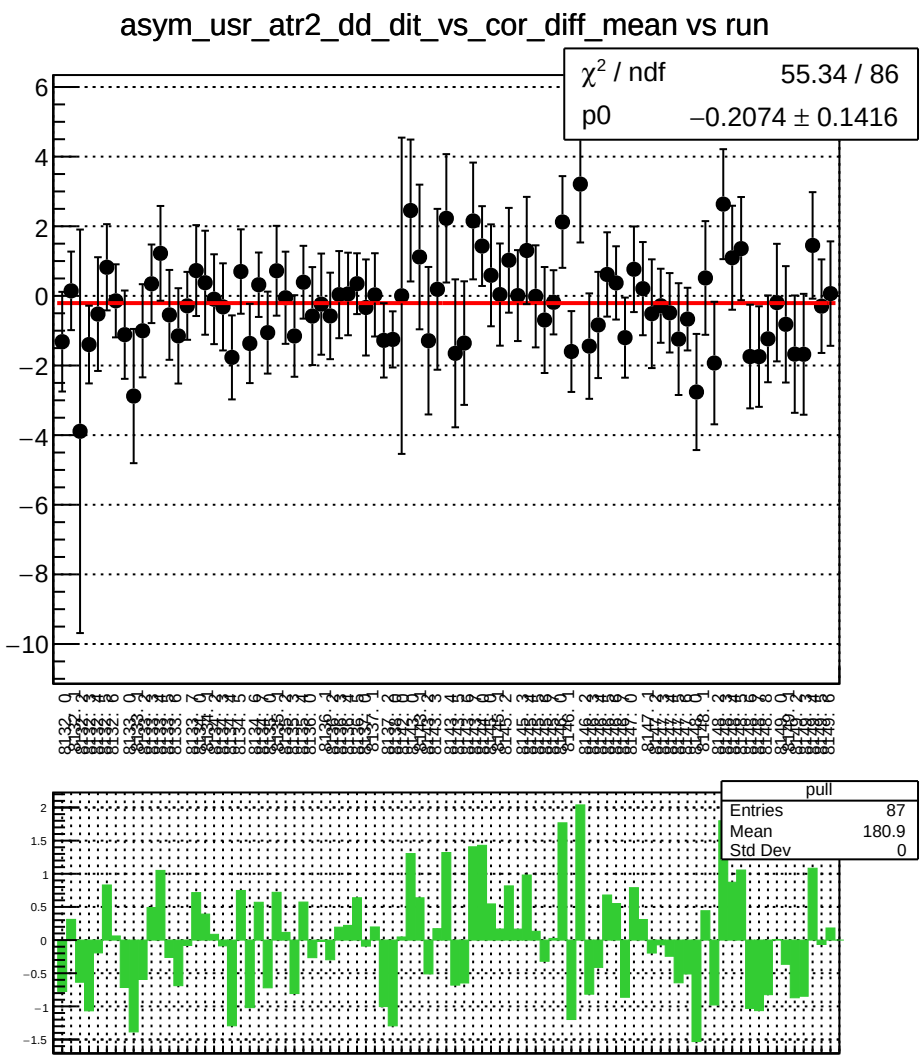

asym_usr_atr2_dd_mean vs run
×10^3
χ² / ndf 93.35 / 86
p0 2342 ± 5548
pull
Entries 87
Mean 389.9
Std Dev 0

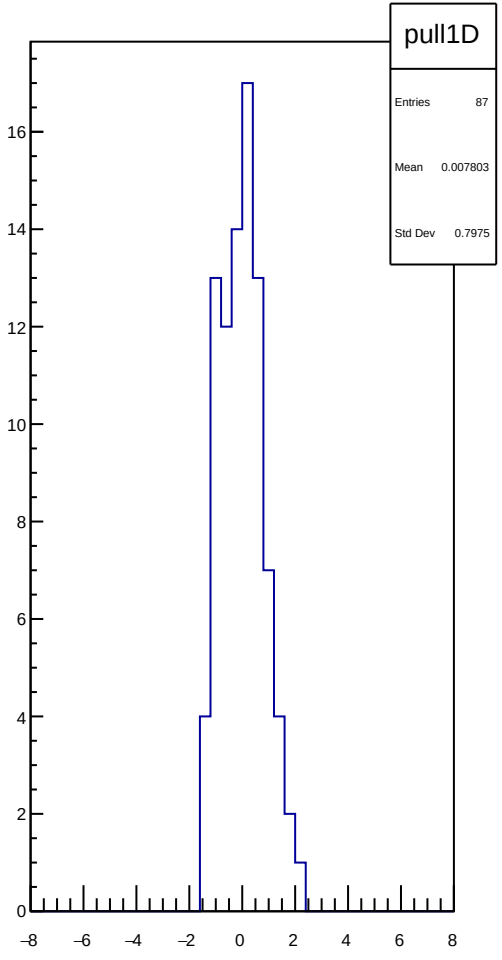

pull1D
Entries 87
Mean −0.00701
Std Dev 1.036

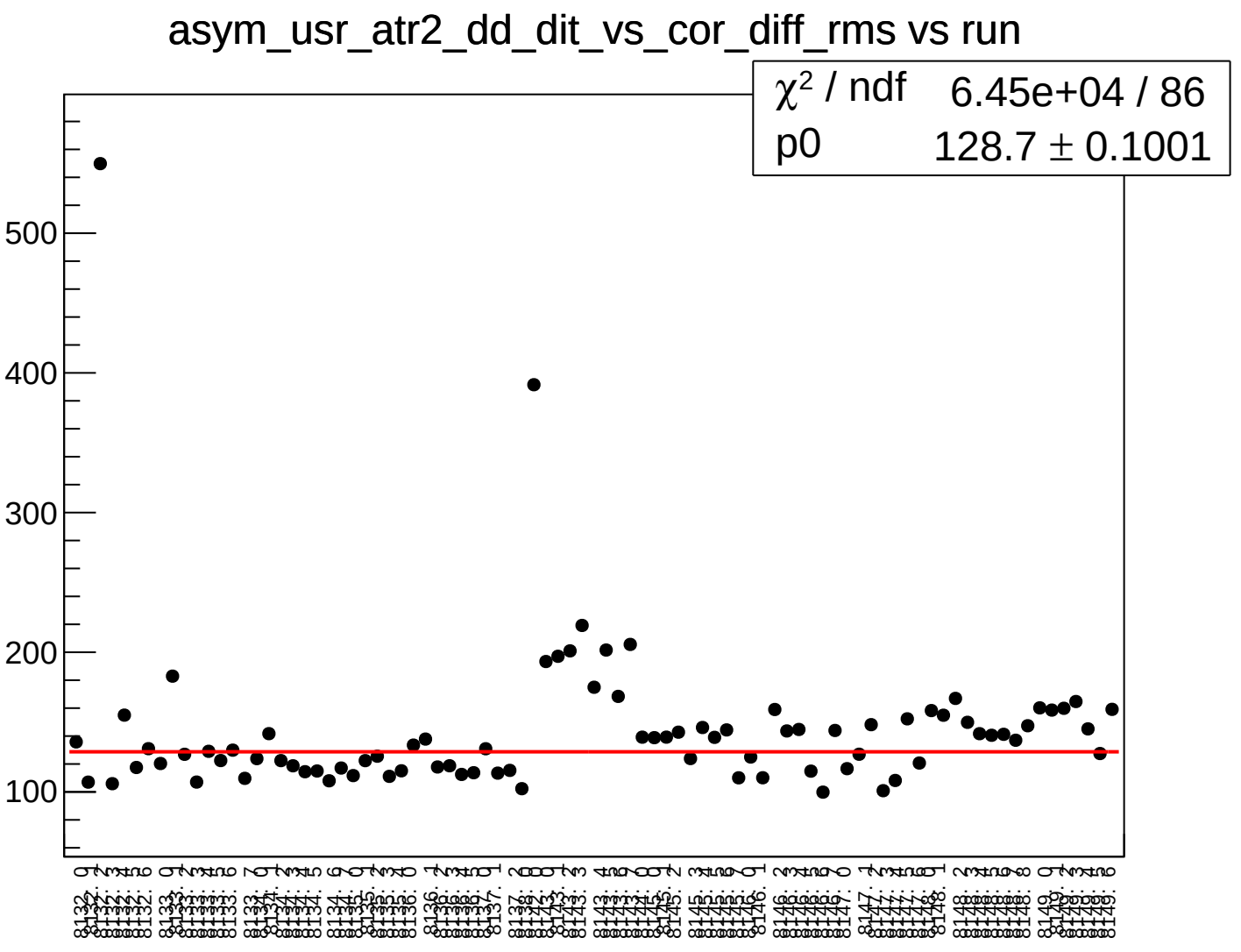

asym_usr_atr2_dd_rms vs run
χ² / ndf 1.785e+04 / 86
p0 5116 ± 3.923
7000
6500
6000
5500
5000
4500

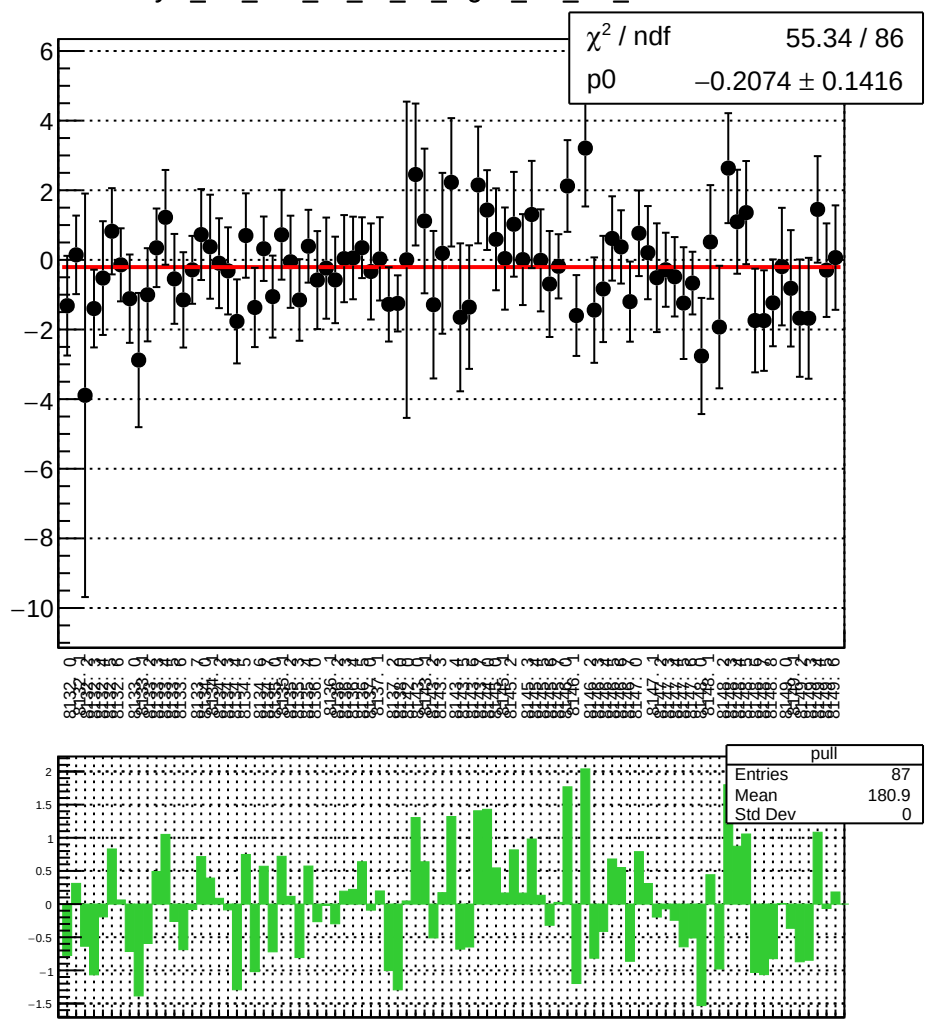

asym_usr_atr2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 112.1 / 86
p0 −9.847e−13 ± 5.946e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 87
Mean 834.3
Std Dev 0
pull1D
Entries 87
Mean −0.007063
Std Dev 1.135
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

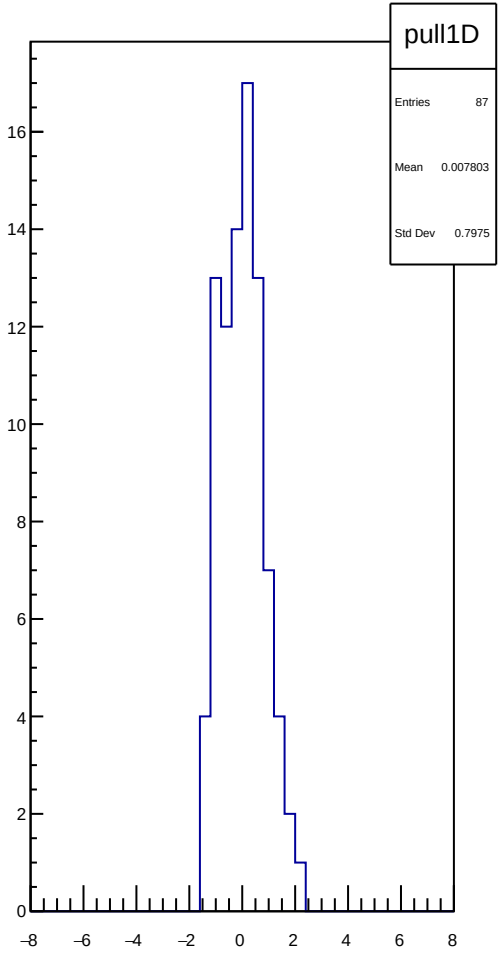

asym_usr_atr2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.929e+05 / 86
p0 3.821e−10 ± 4.204e−13
1
0.8
0.6
0.4
0.2
0

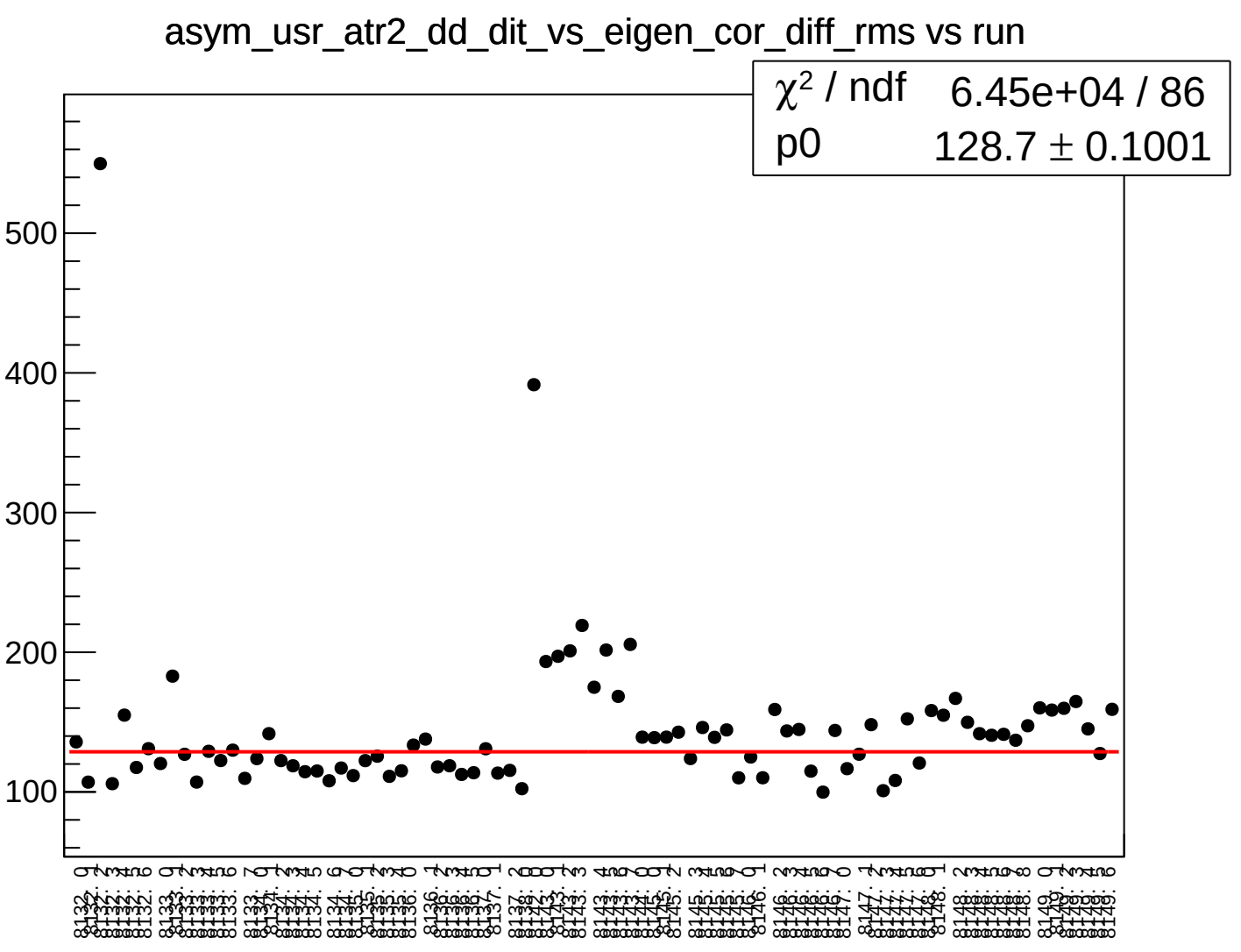

asym_usr_atr2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 55.34 / 86
p0 −0.2074 ± 0.1416
pull
Entries 87
Mean 180.9
Std Dev 0

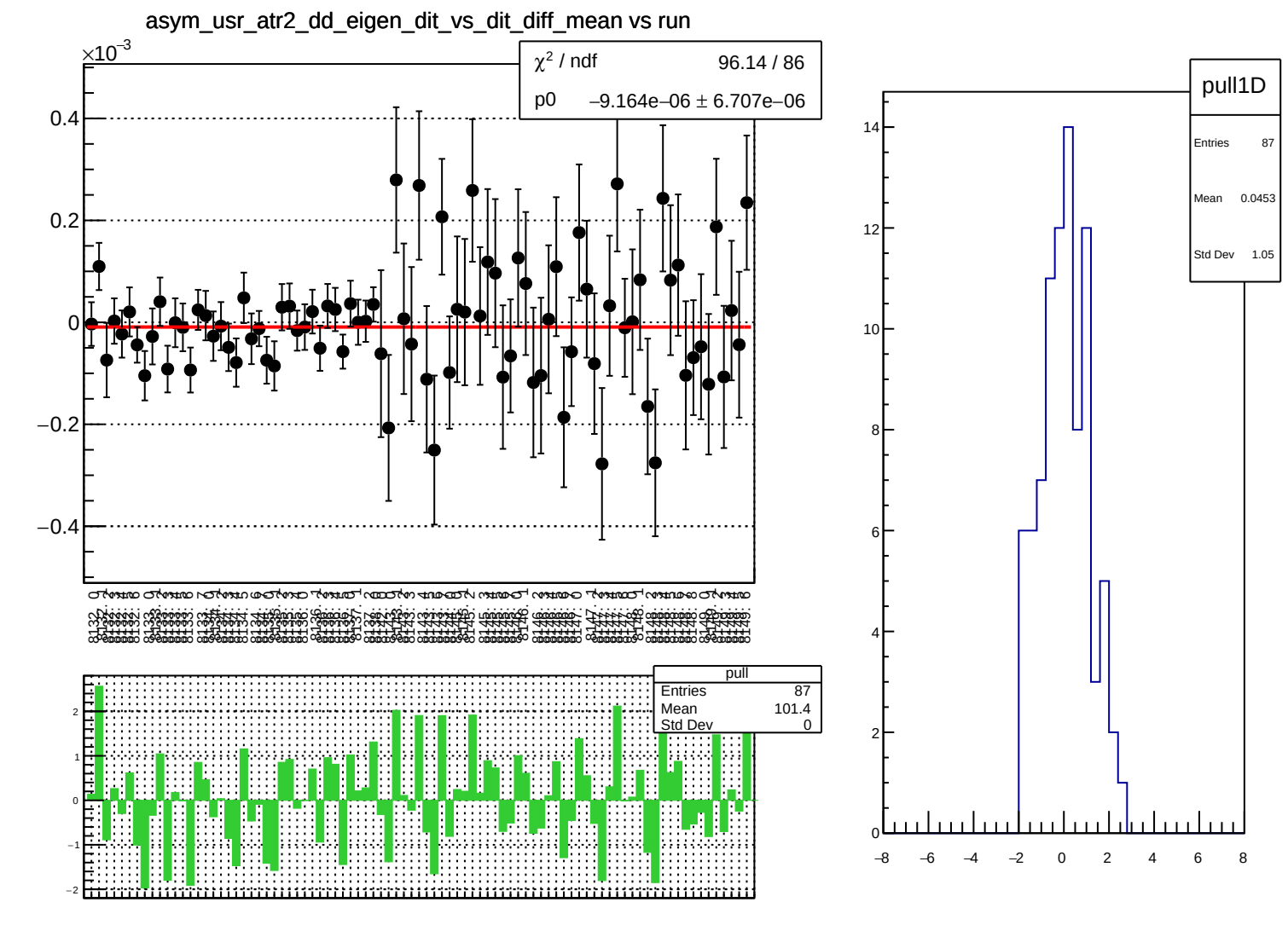

pull1D
Entries 87
Mean 0.007803
Std Dev 0.7975

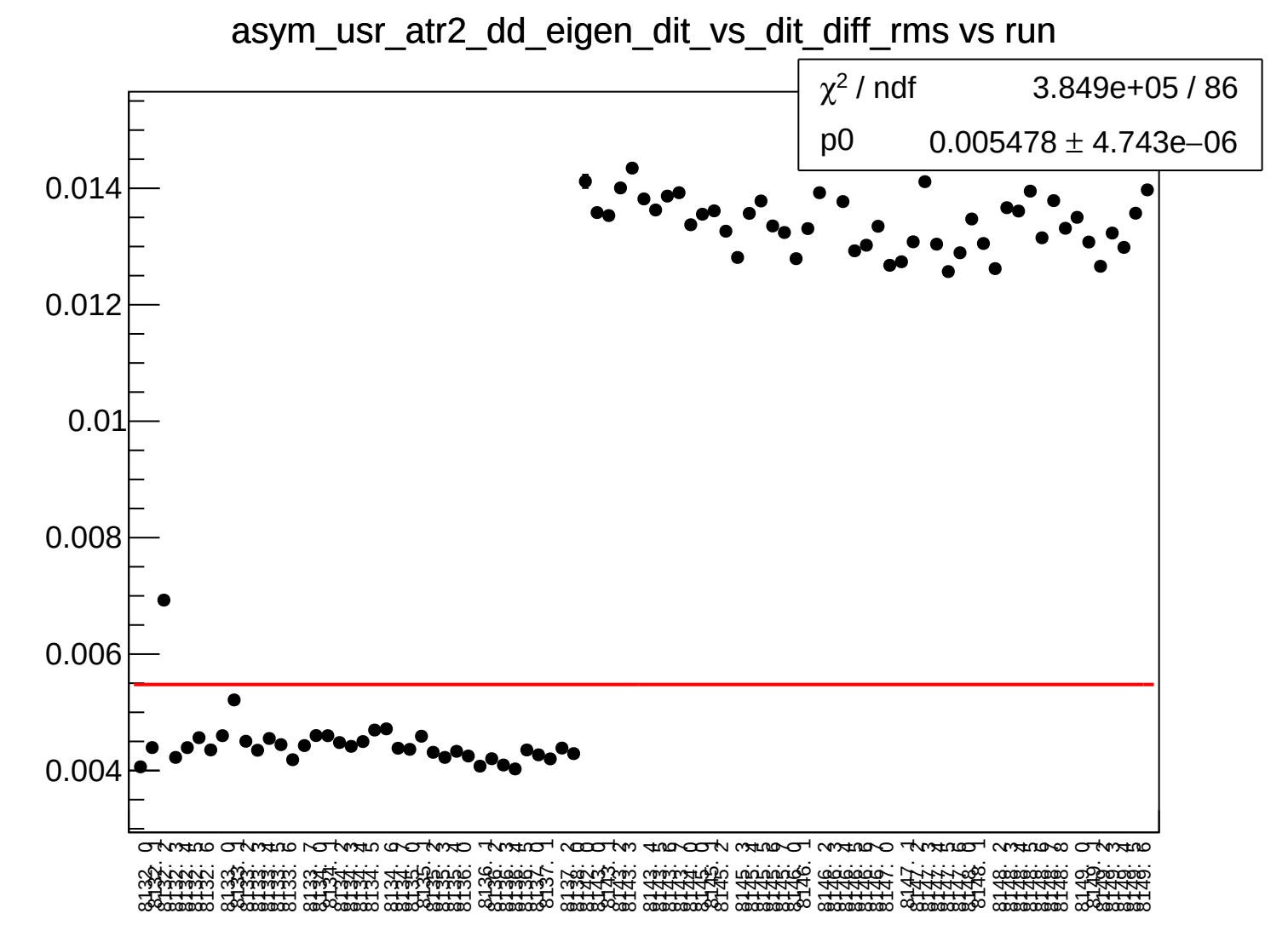

asym_usr_atr2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.45e+04 / 86
p0 128.7 ± 0.1001
500
400
300
200
100

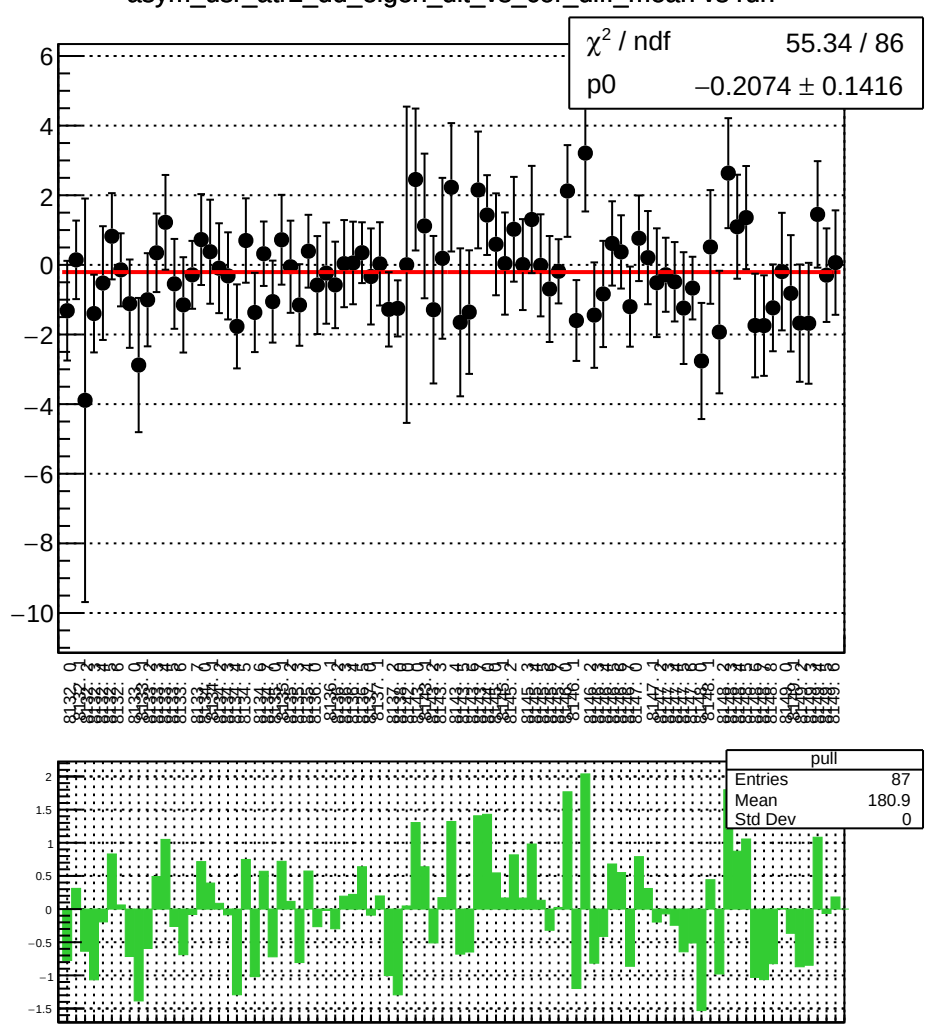

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 55.34 / 86
p0 −0.2074 ± 0.1416
pull
Entries 87
Mean 180.9
Std Dev 0

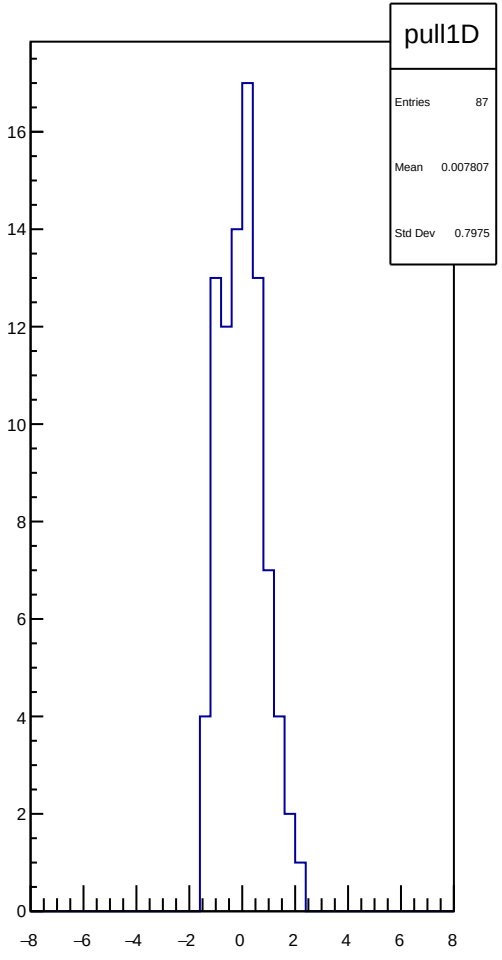

pull1D
Entries 87
Mean 0.007803
Std Dev 0.7975

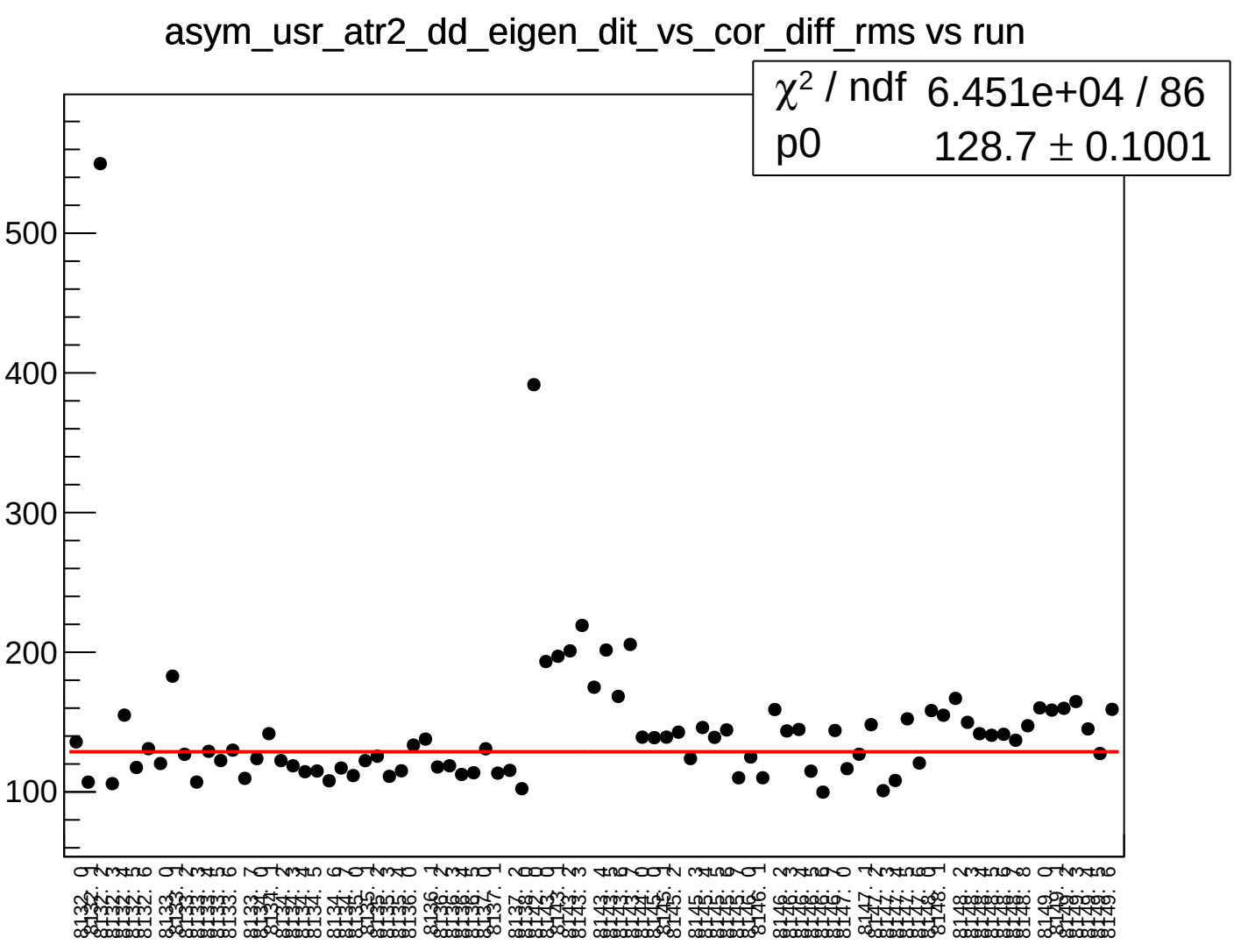

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.45e+04 / 86
p0 128.7 ± 0.1001
500
400
300
200
100

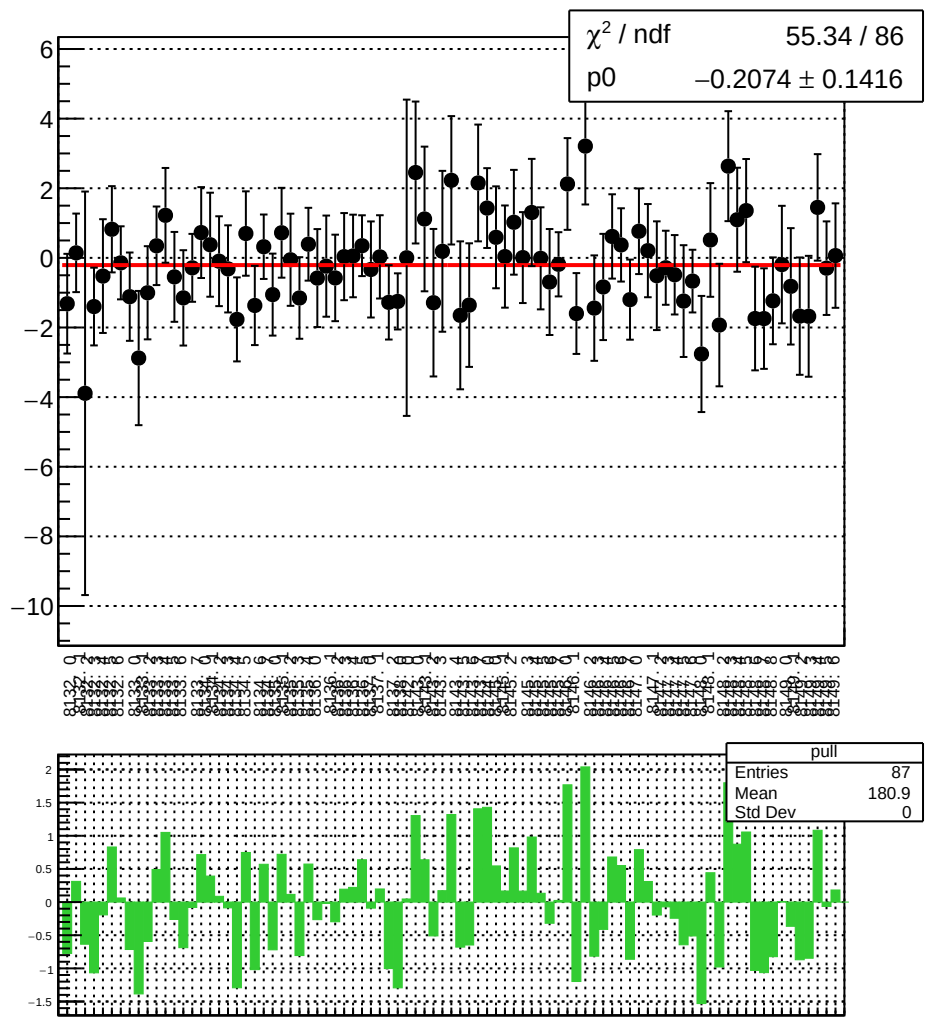

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.14 / 86
p0 −9.164e−06 ± 6.707e−06
0.4
0.2
0
−0.2
−0.4
pull
Entries 87
Mean 101.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.0453
Std Dev 1.05
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

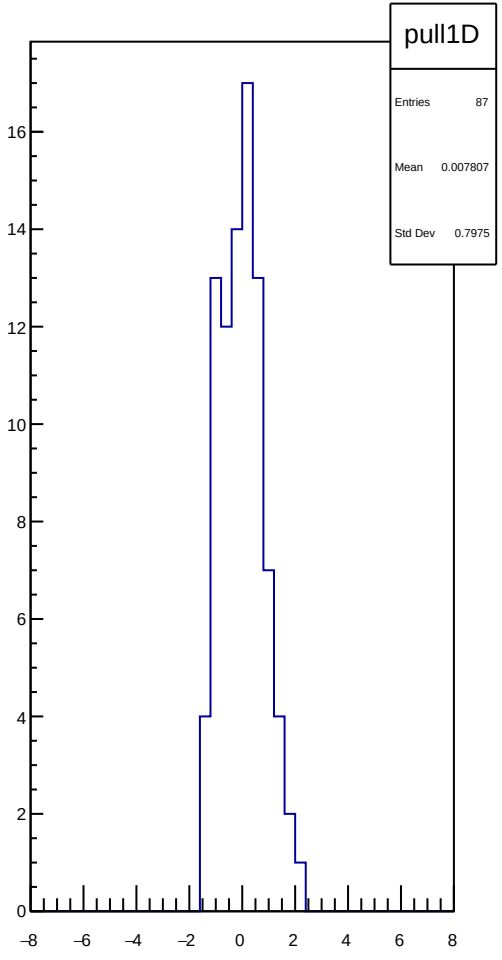

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.849e+05 / 86
p0 0.005478 ± 4.743e−06
0.014
0.012
0.01
0.008
0.006
0.004

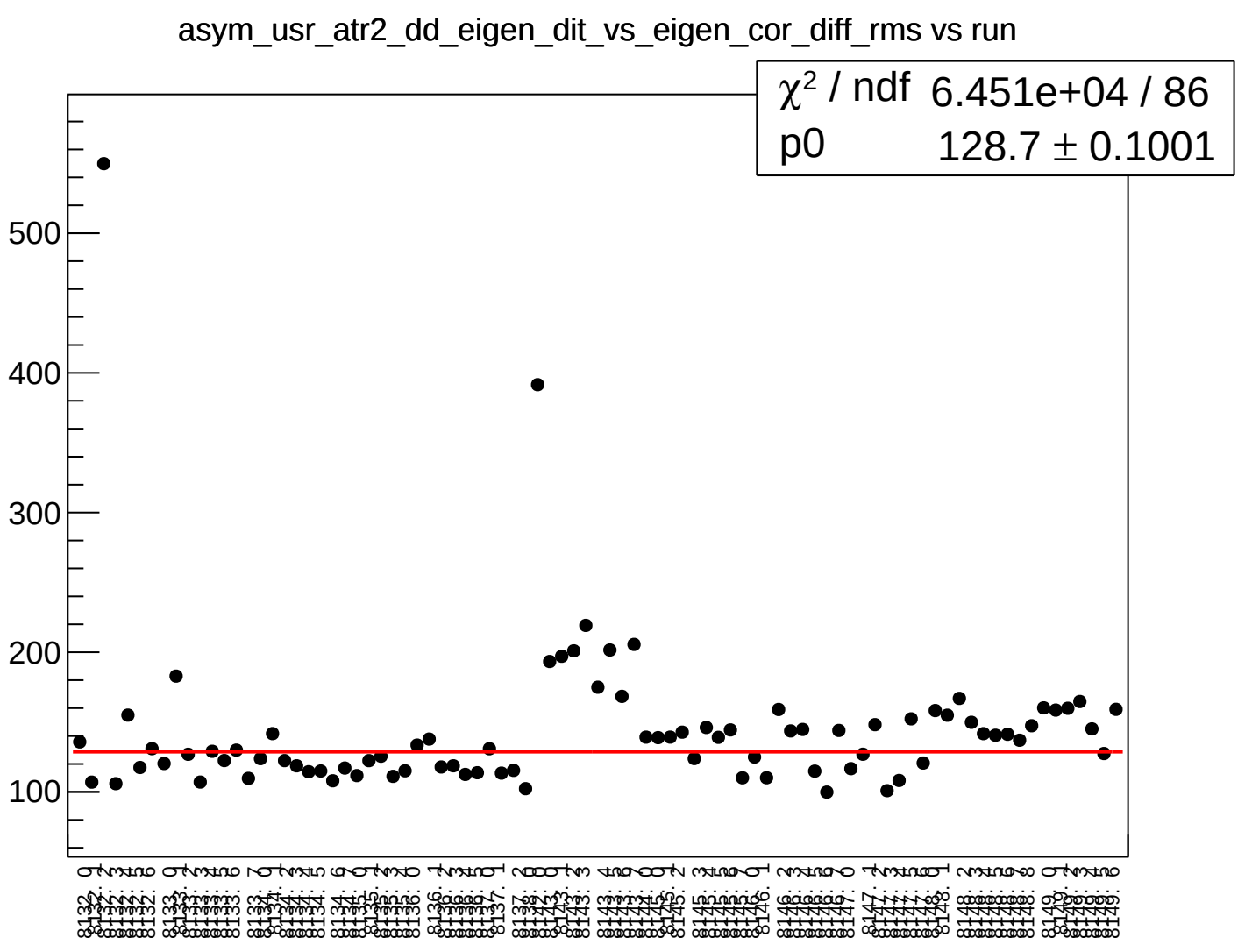

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 55.34 / 86
p0 −0.2074 ± 0.1416
pull
Entries 87
Mean 180.9
Std Dev 0

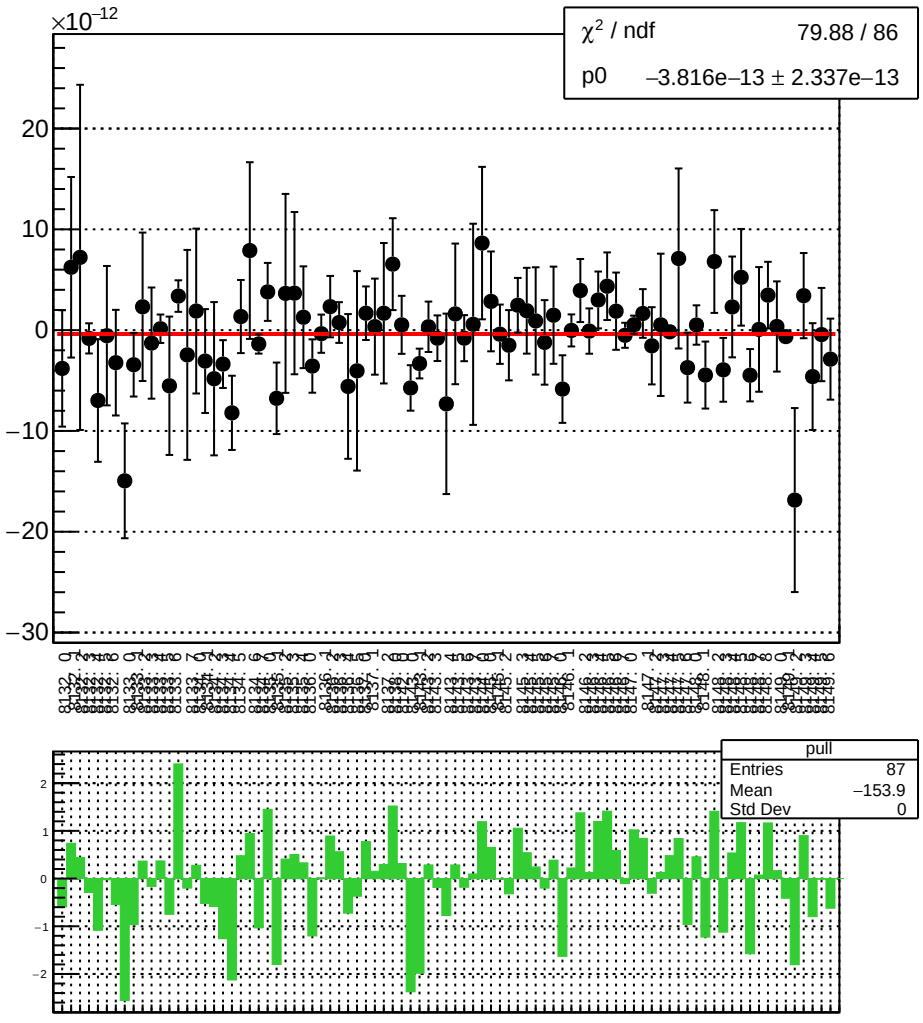

pull1D
Entries 87
Mean 0.007807
Std Dev 0.7975

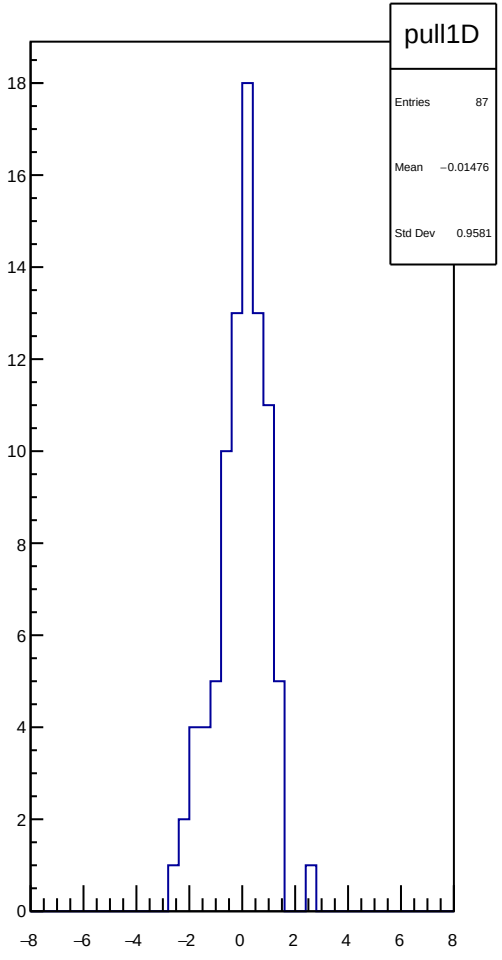

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.451e+04 / 86
p0 128.7 ± 0.1001
500
400
300
200
100

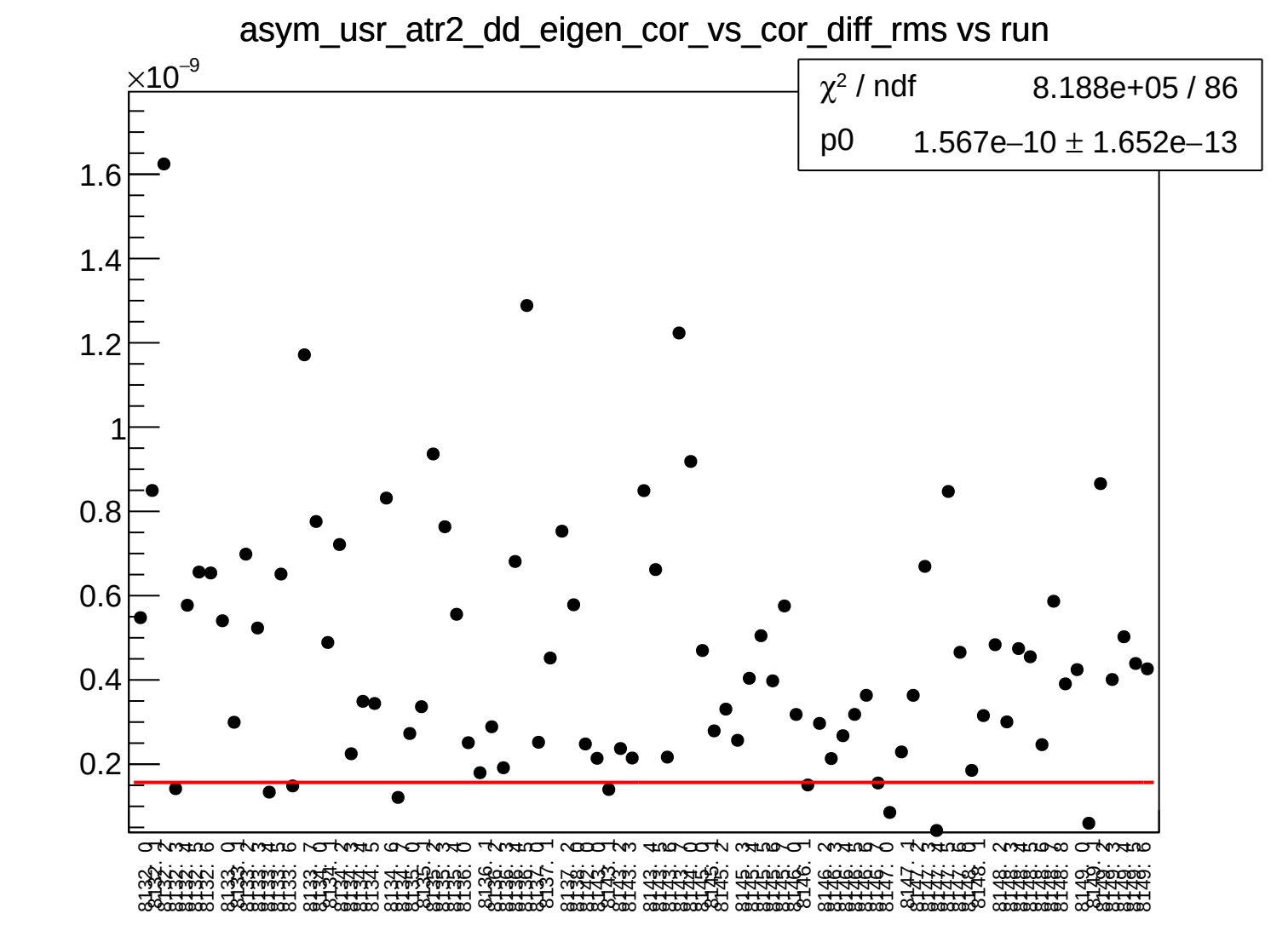

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 55.34 / 86
p0 −0.2074 ± 0.1416
pull
Entries 87
Mean 180.9
Std Dev 0

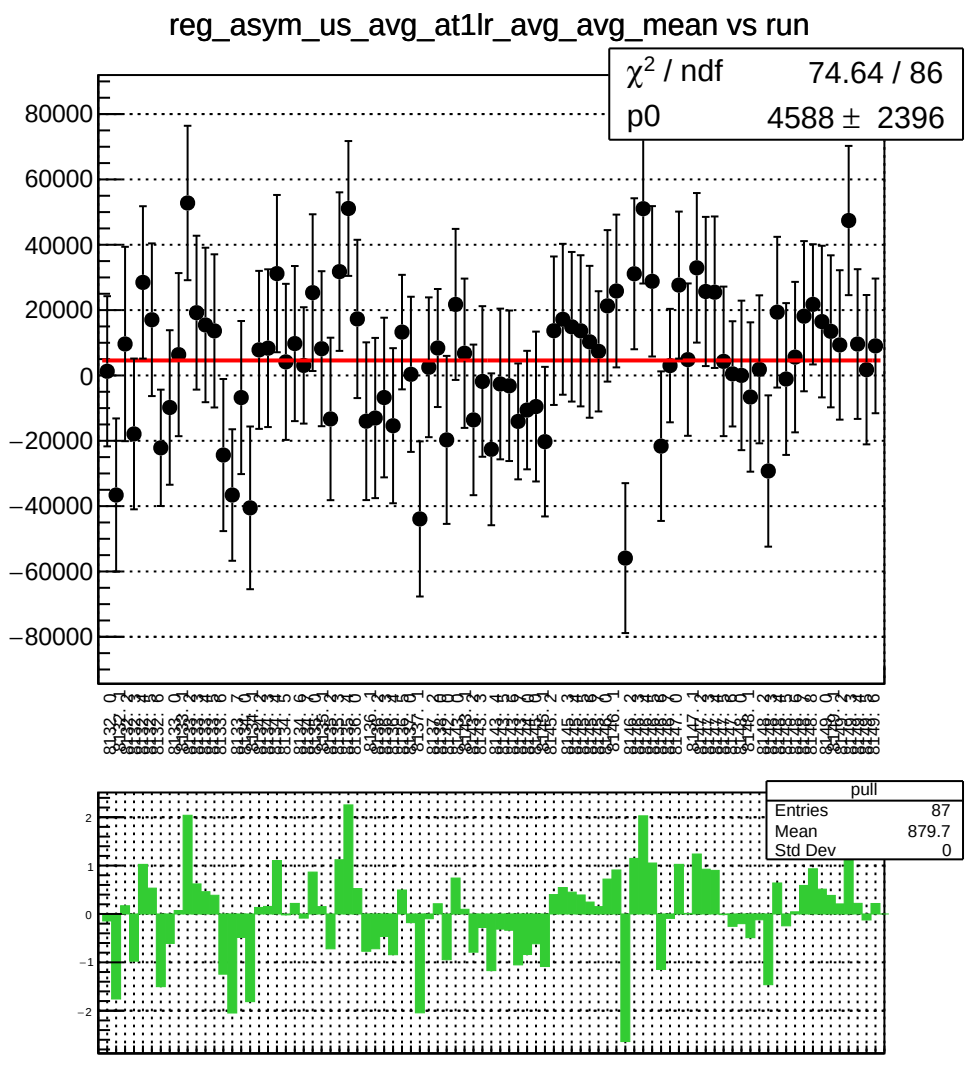

pull1D
Entries 87
Mean 0.007807
Std Dev 0.7975

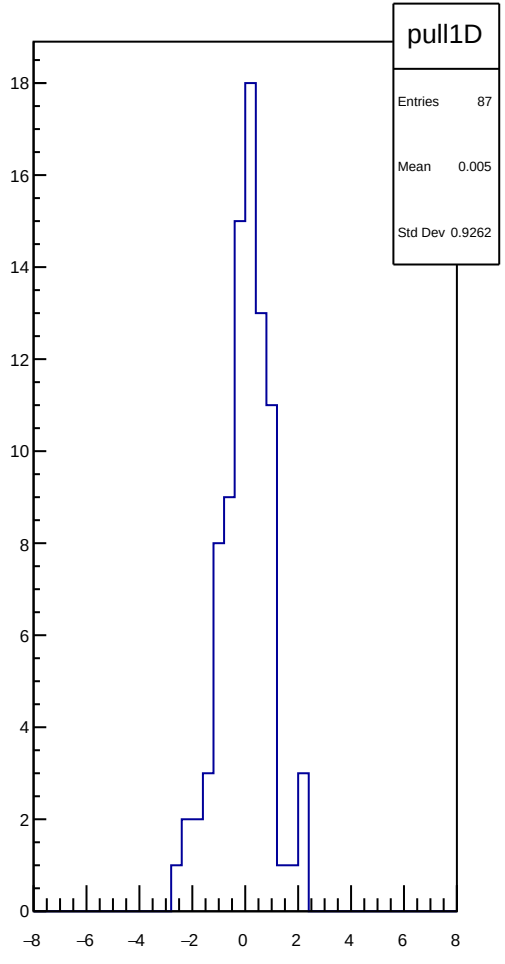

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.451e+04 / 86
p0 128.7 ± 0.1001
500
400
300
200
100

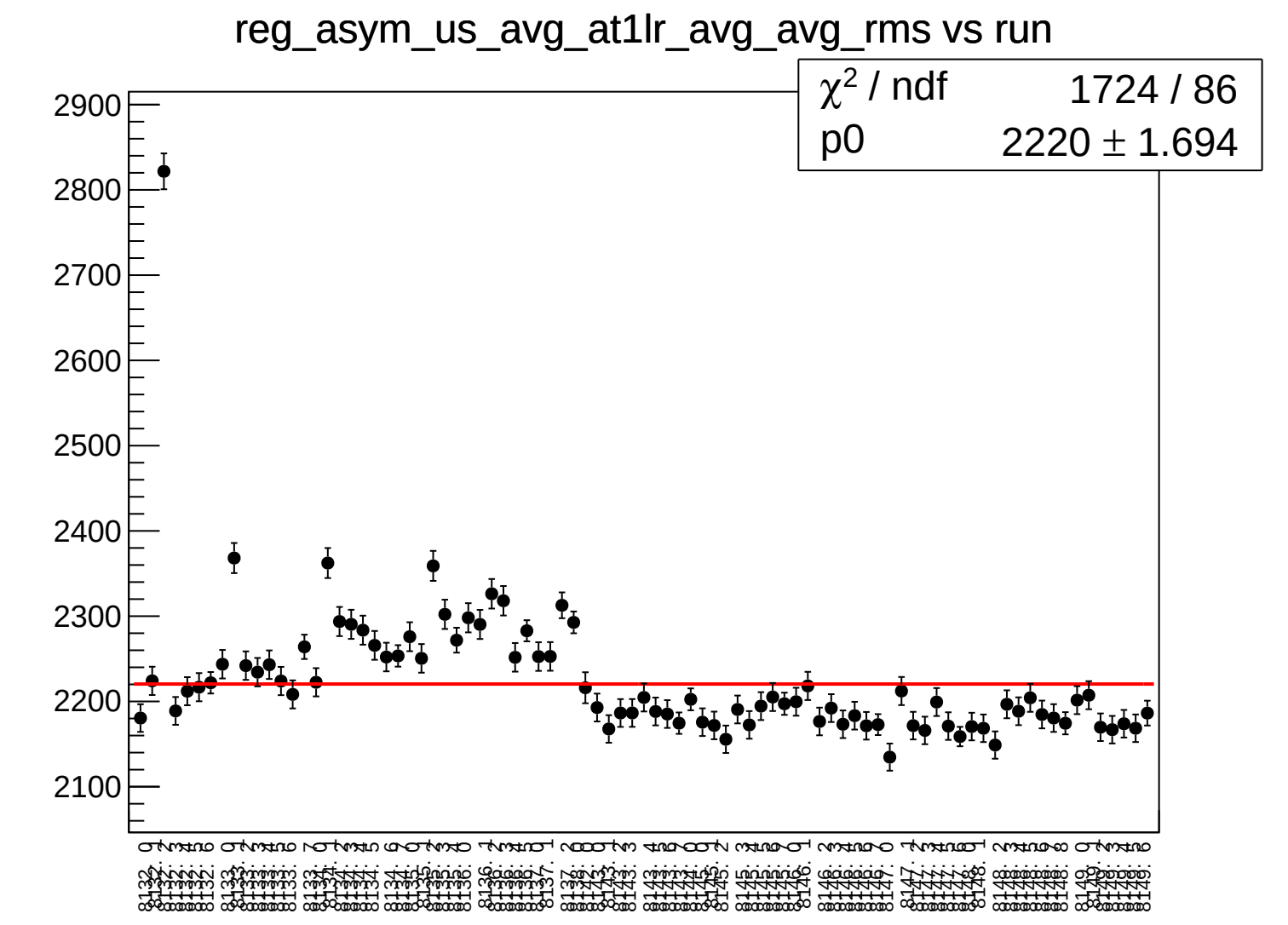

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 79.88 / 86
p0 −3.816e−13 ± 2.337e−13
pull
Entries 87
Mean −153.9
Std Dev 0

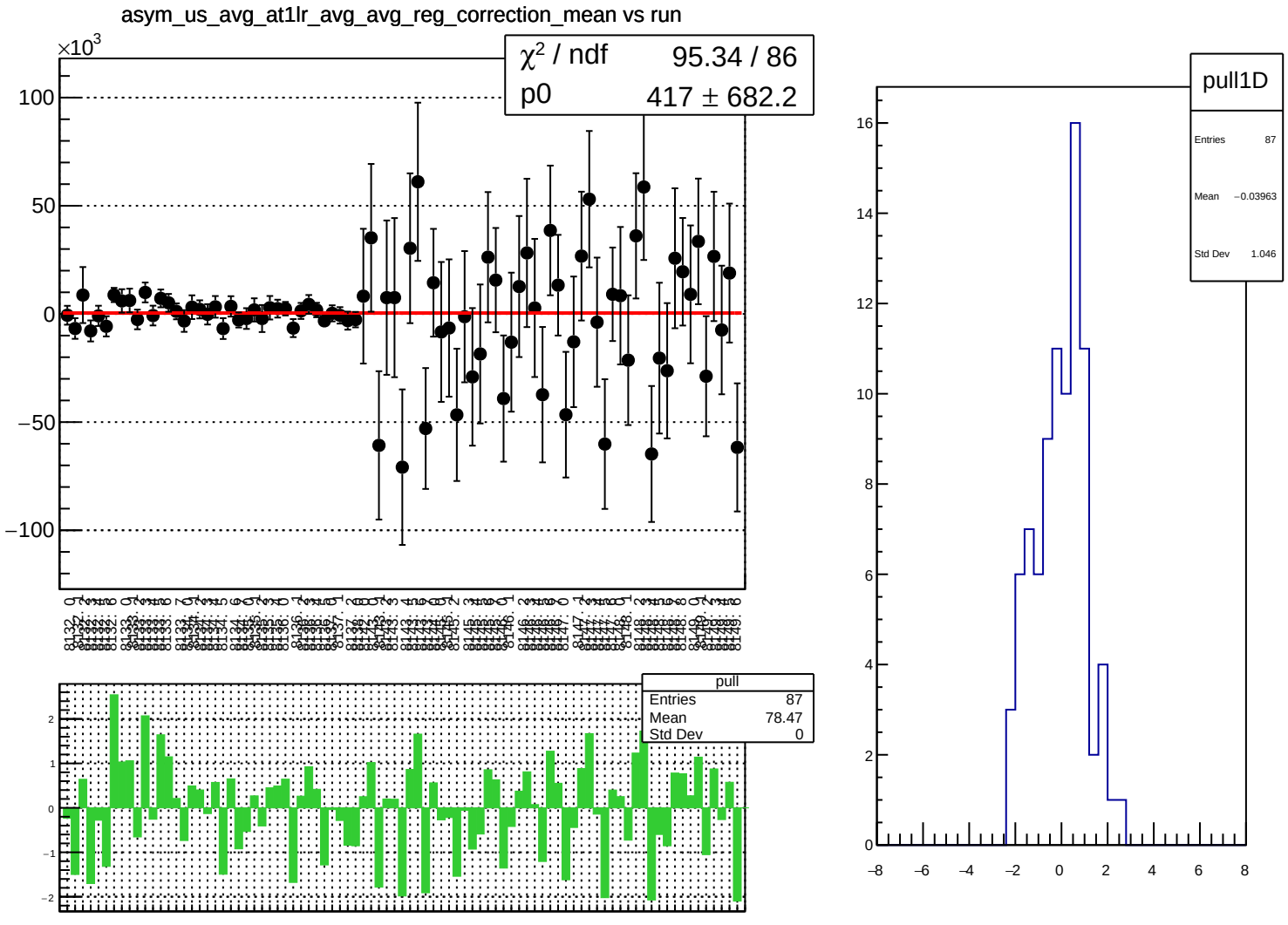

pull1D
Entries 87
Mean −0.01476
Std Dev 0.9581

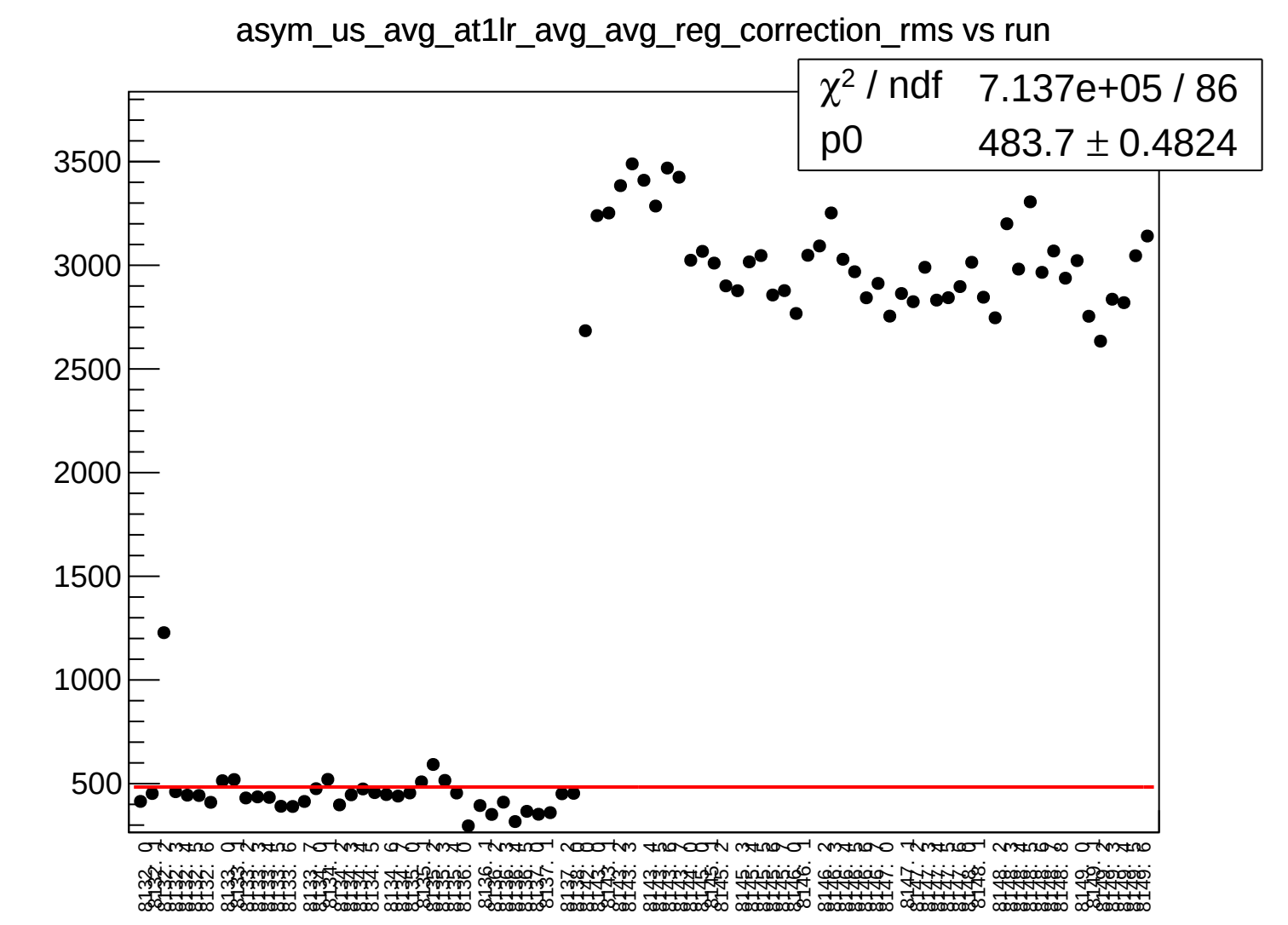

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.188e+05 / 86
p0 1.567e−10 ± 1.652e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

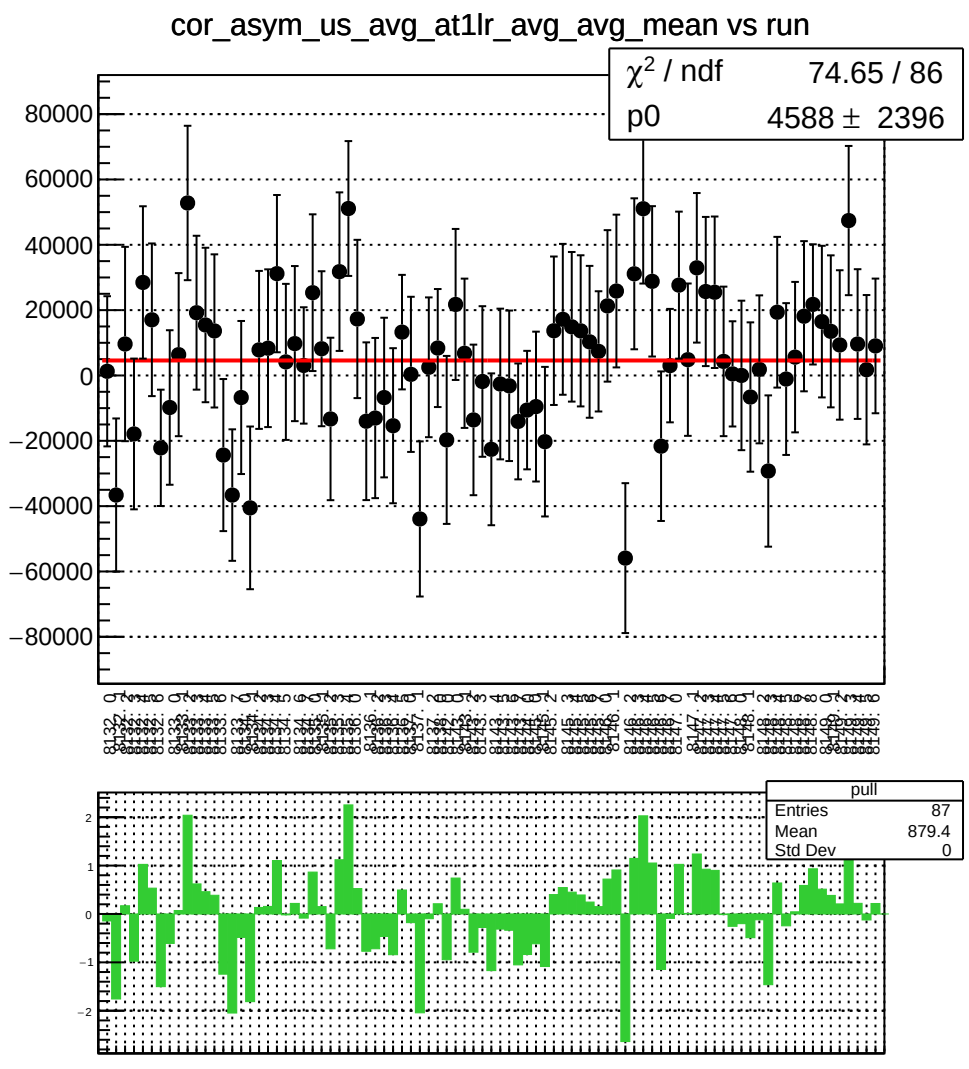

reg_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 74.64 / 86
p0 4588 ± 2396
pull
Entries 87
Mean 879.7
Std Dev 0

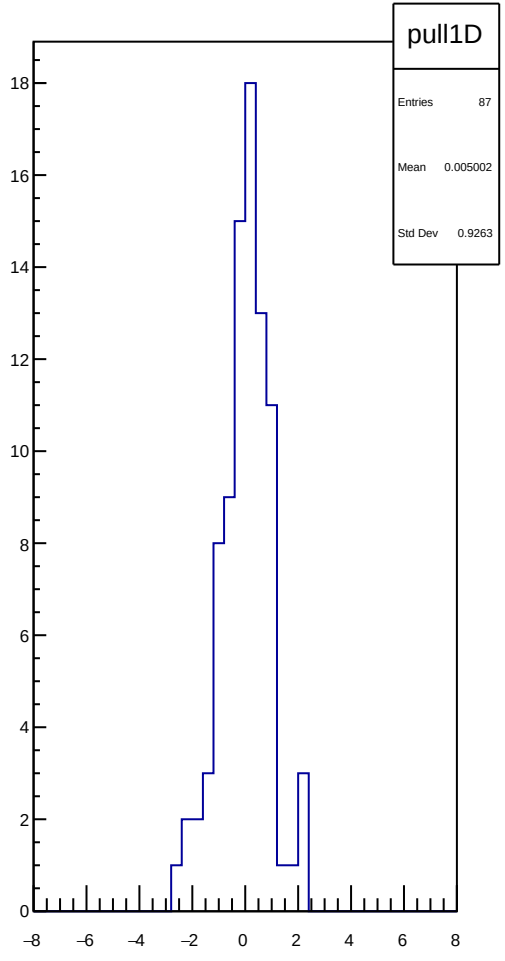

pull1D
Entries 87
Mean 0.005
Std Dev 0.9262

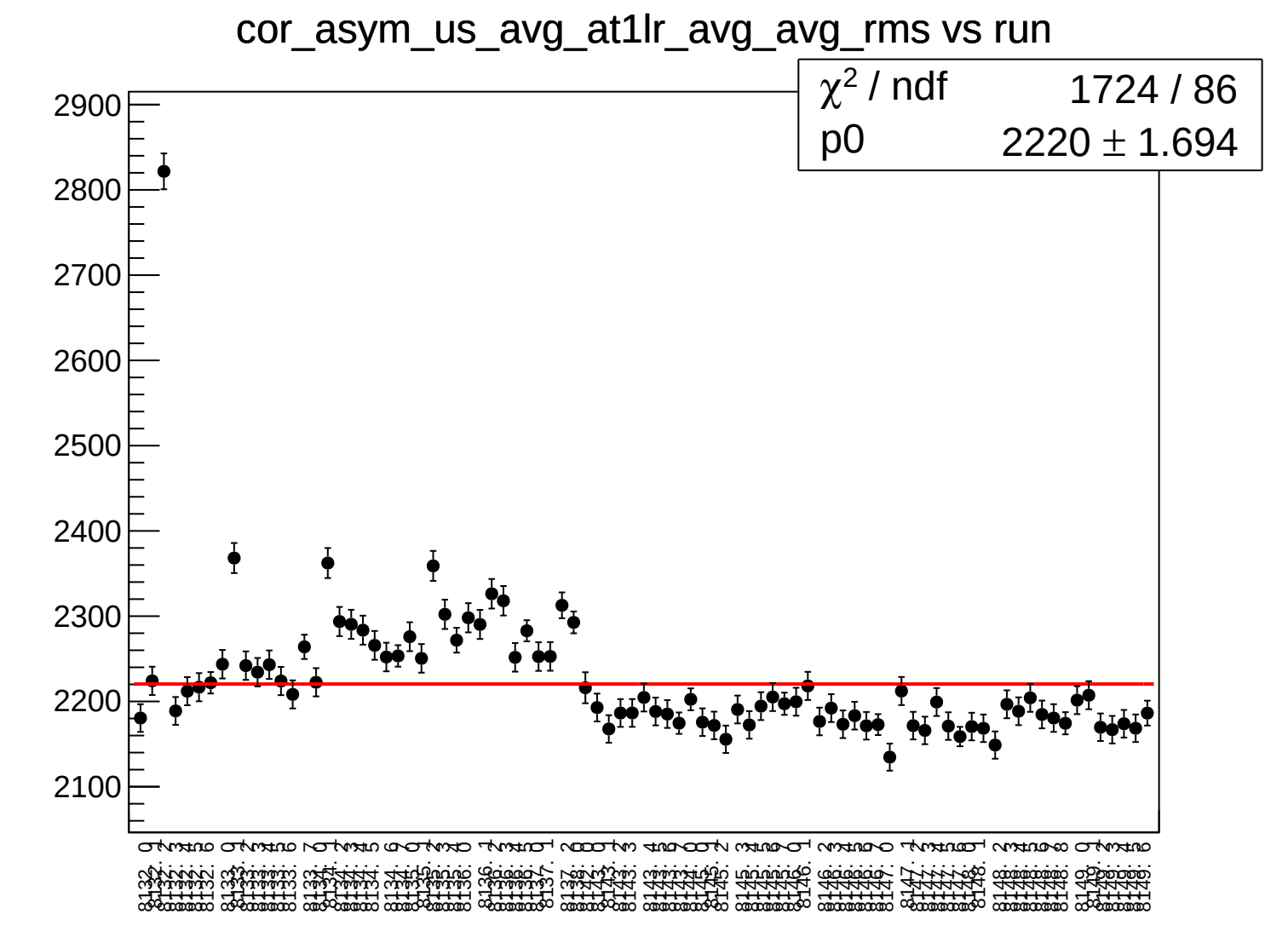

reg_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 1724 / 86
p0 2220 ± 1.694
2900
2800
2700
2600
2500
2400
2300
2200
2100

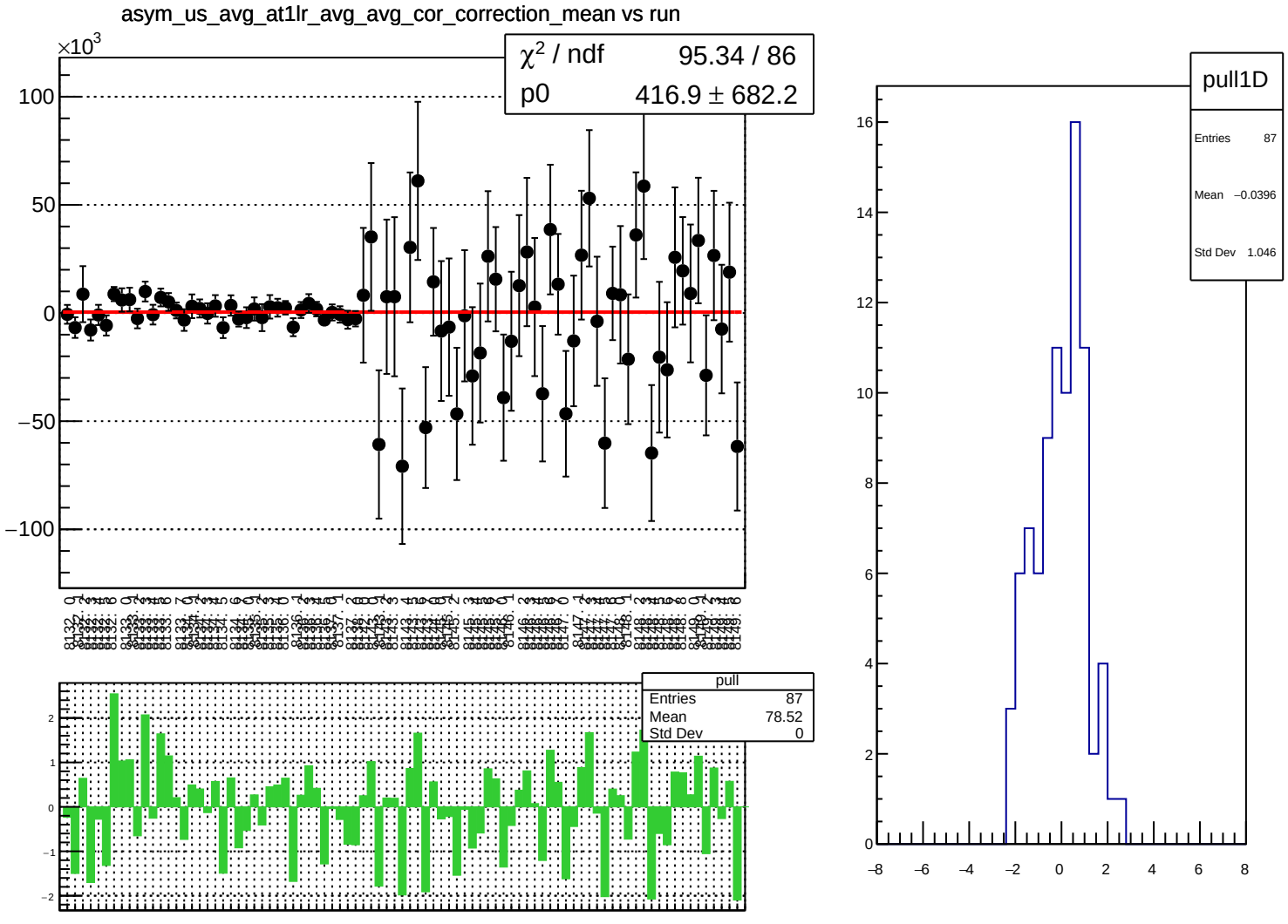

asym_us_avg_at1lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 95.34 / 86
p0 417 ± 682.2
100
50
0
−50
−100
pull
Entries 87
Mean 78.47
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.03963
Std Dev 1.046
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

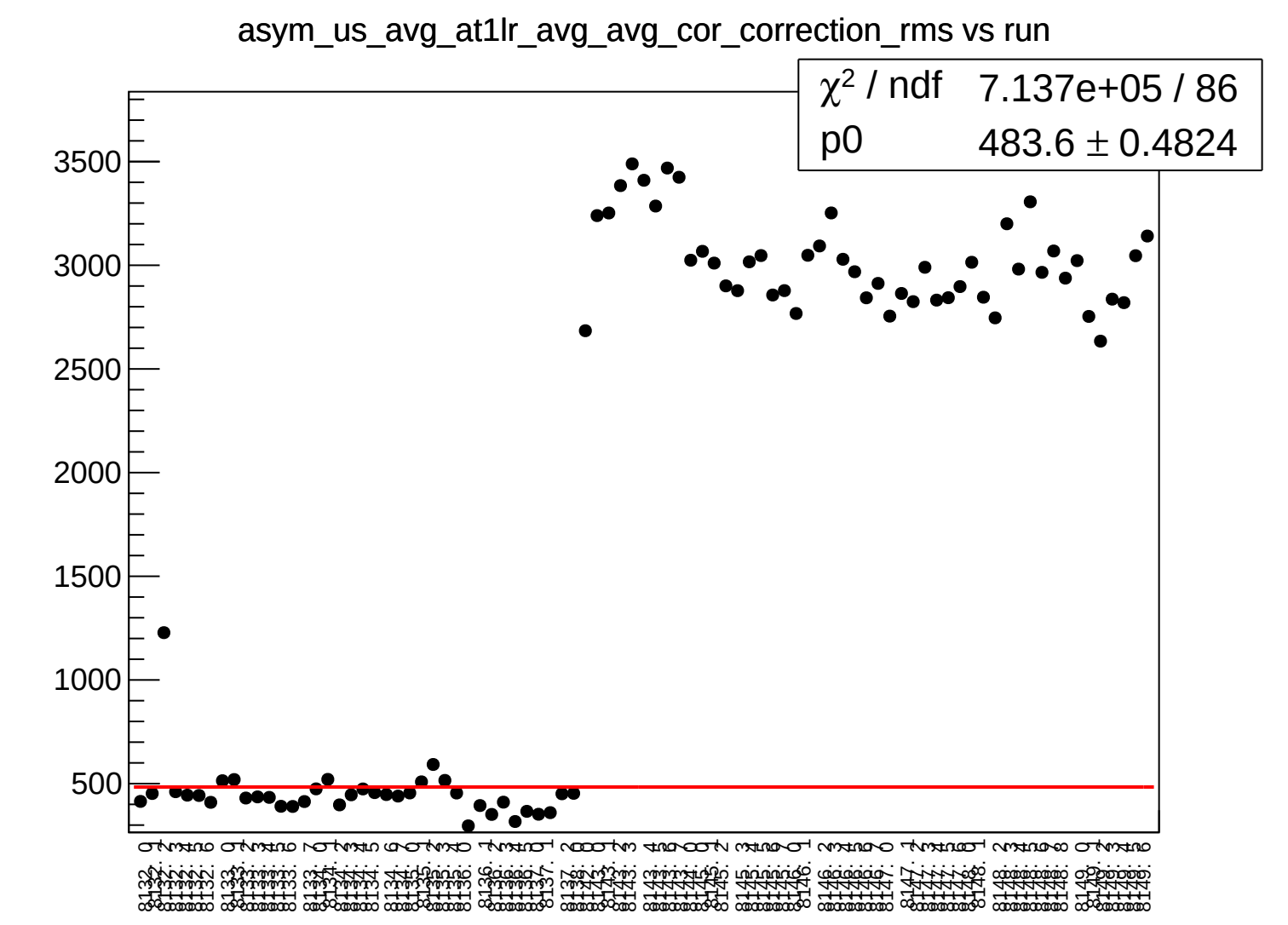

asym_us_avg_at1lr_avg_avg_reg_correction_rms vs run
χ² / ndf 7.137e+05 / 86
p0 483.7 ± 0.4824
3500
3000
2500
2000
1500
1000
500

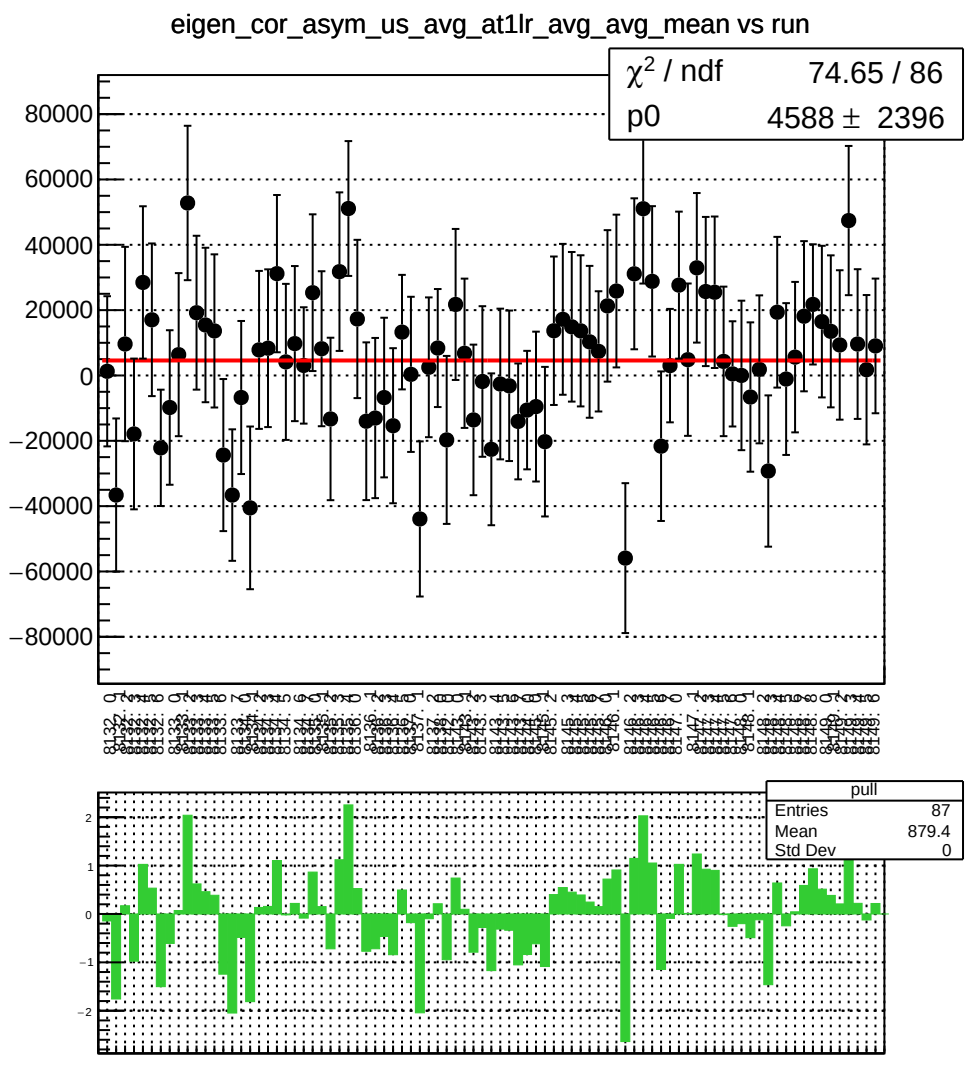

cor_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 74.65 / 86
p0 4588 ± 2396
pull
Entries 87
Mean 879.4
Std Dev 0

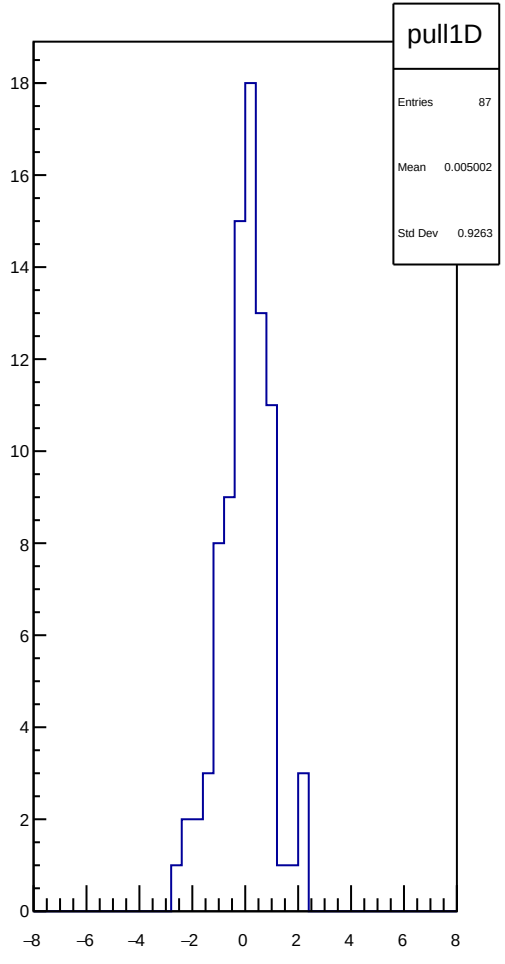

pull1D
Entries 87
Mean 0.005002
Std Dev 0.9263

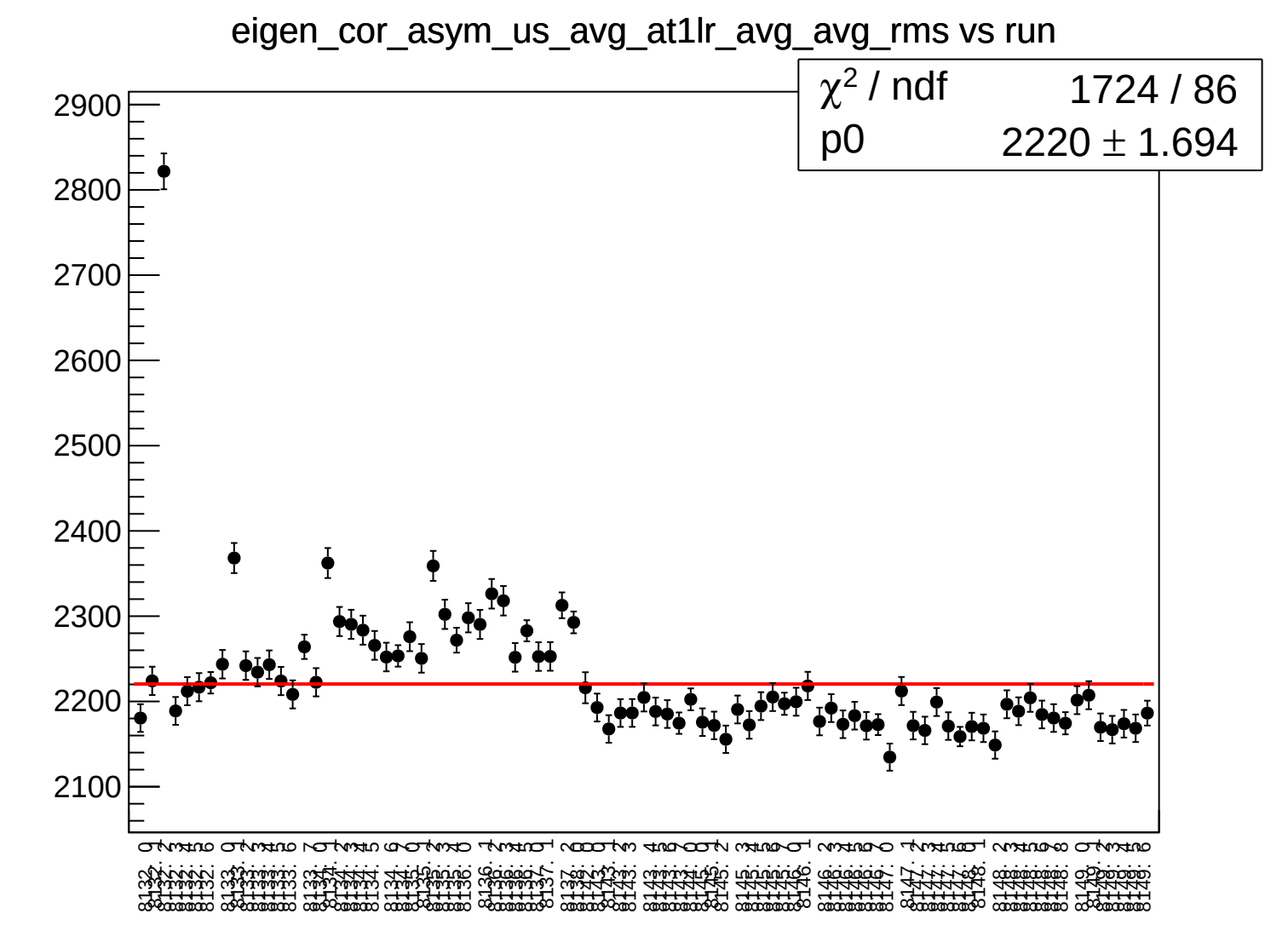

cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 1724 / 86
p0 2220 ± 1.694
2900
2800
2700
2600
2500
2400
2300
2200
2100

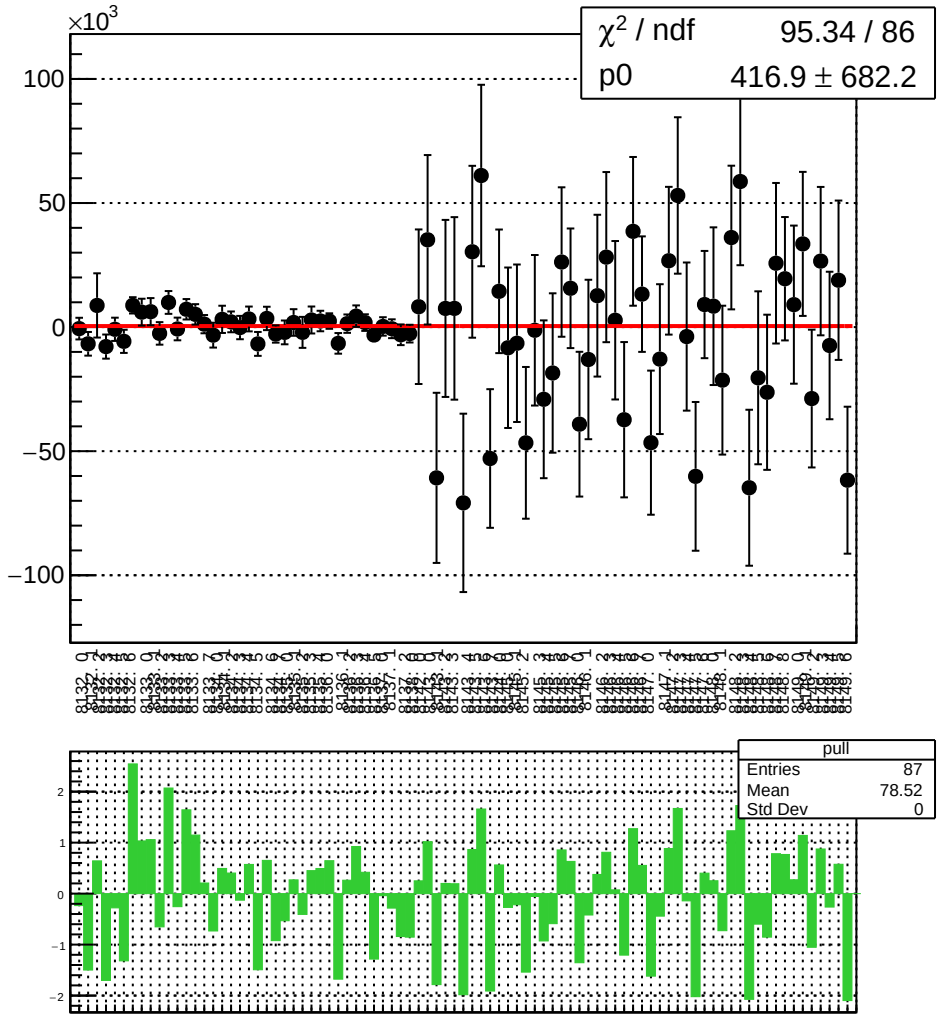

asym_us_avg_at1lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 95.34 / 86
p0 416.9 ± 682.2
100
50
0
−50
−100
pull
Entries 87
Mean 78.52
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.0396
Std Dev 1.046
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

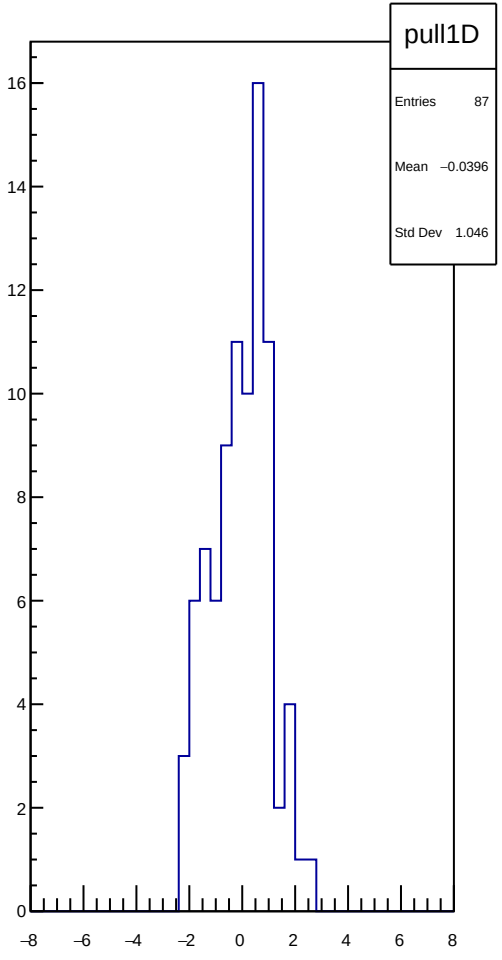

asym_us_avg_at1lr_avg_avg_cor_correction_rms vs run
χ² / ndf 7.137e+05 / 86
p0 483.6 ± 0.4824
3500
3000
2500
2000
1500
1000
500

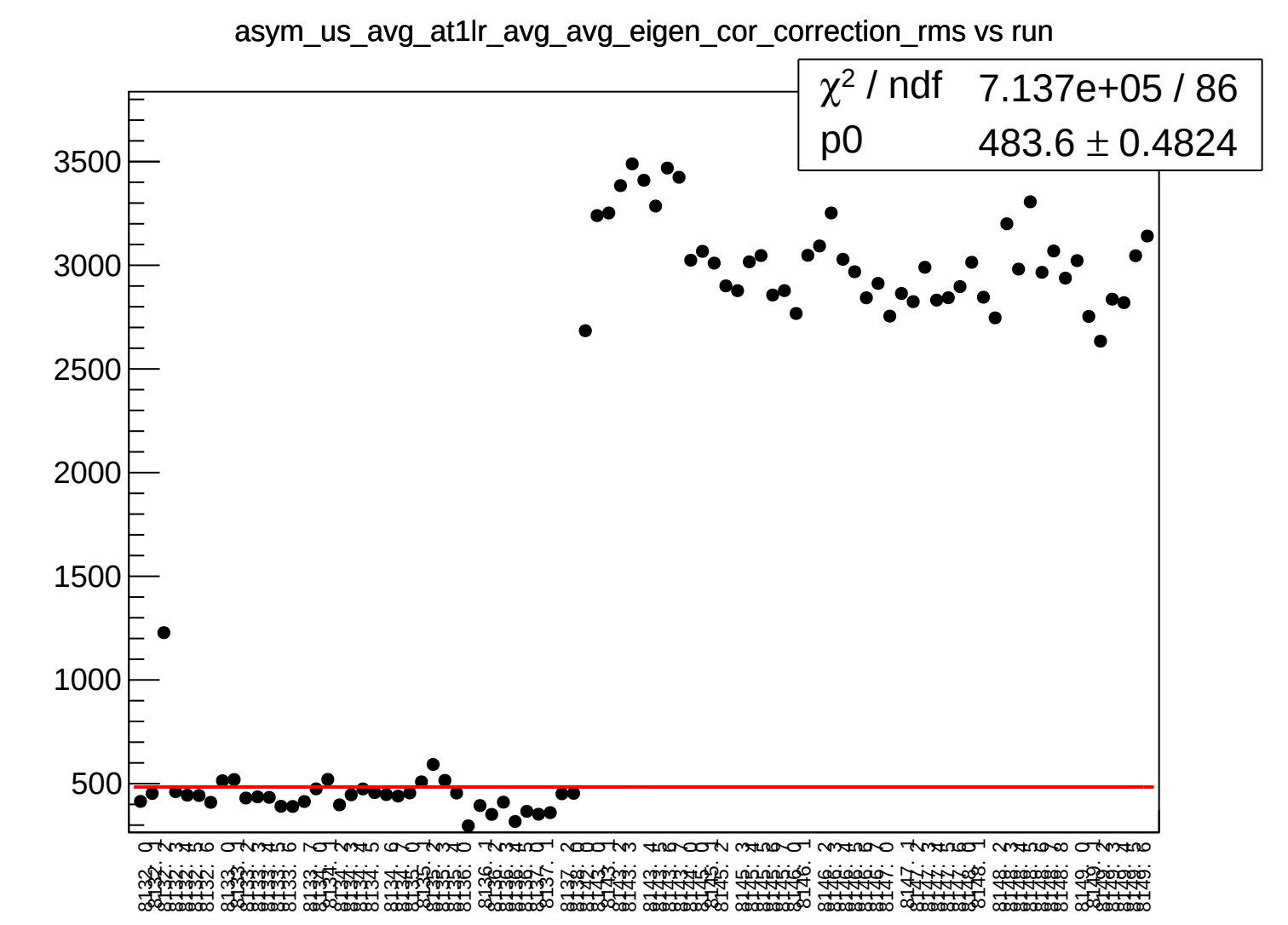

eigen_cor_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 74.65 / 86
p0 4588 ± 2396
pull
Entries 87
Mean 879.4
Std Dev 0

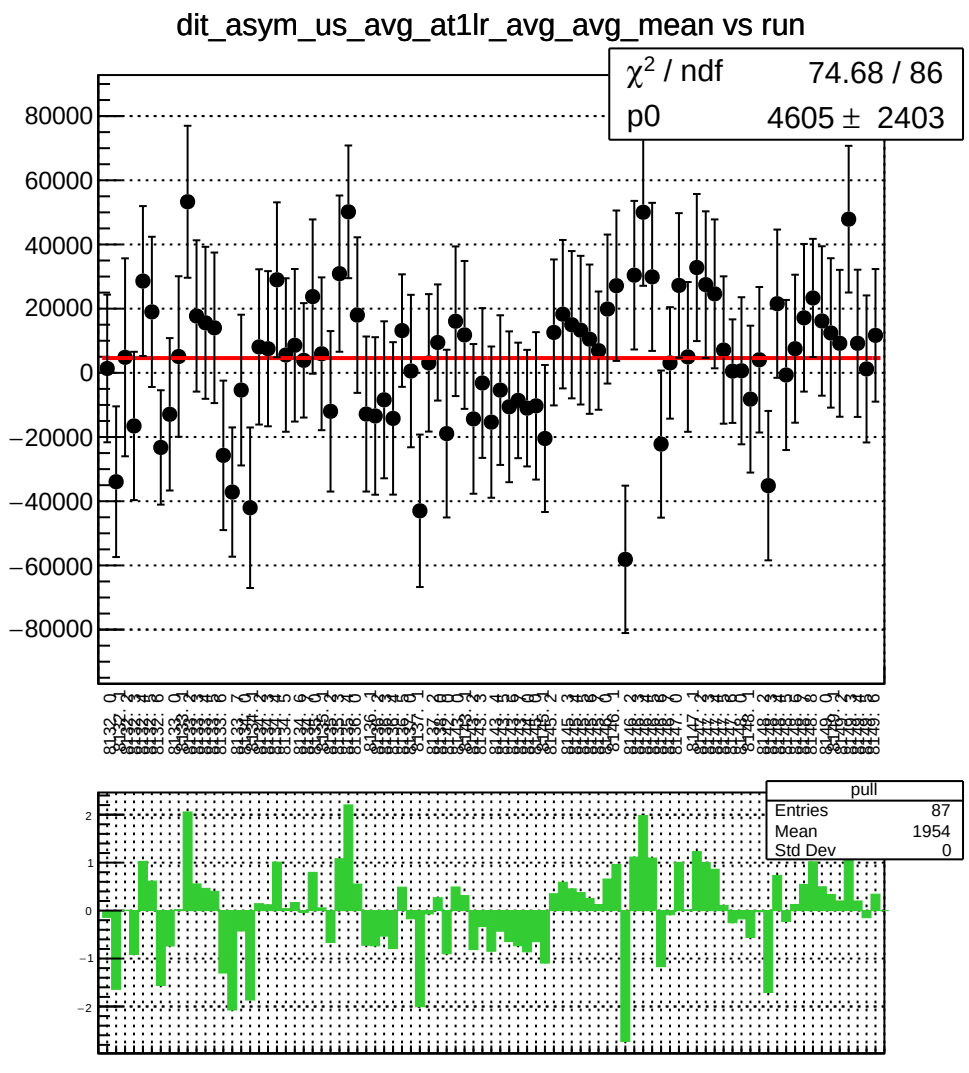

pull1D
Entries 87
Mean 0.005002
Std Dev 0.9263

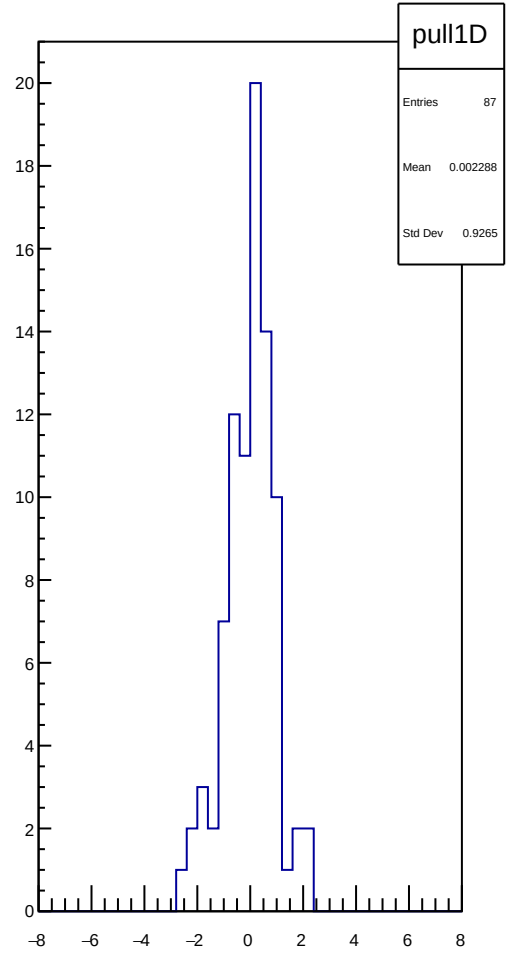

eigen_cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 1724 / 86
p0 2220 ± 1.694
2900
2800
2700
2600
2500
2400
2300
2200
2100

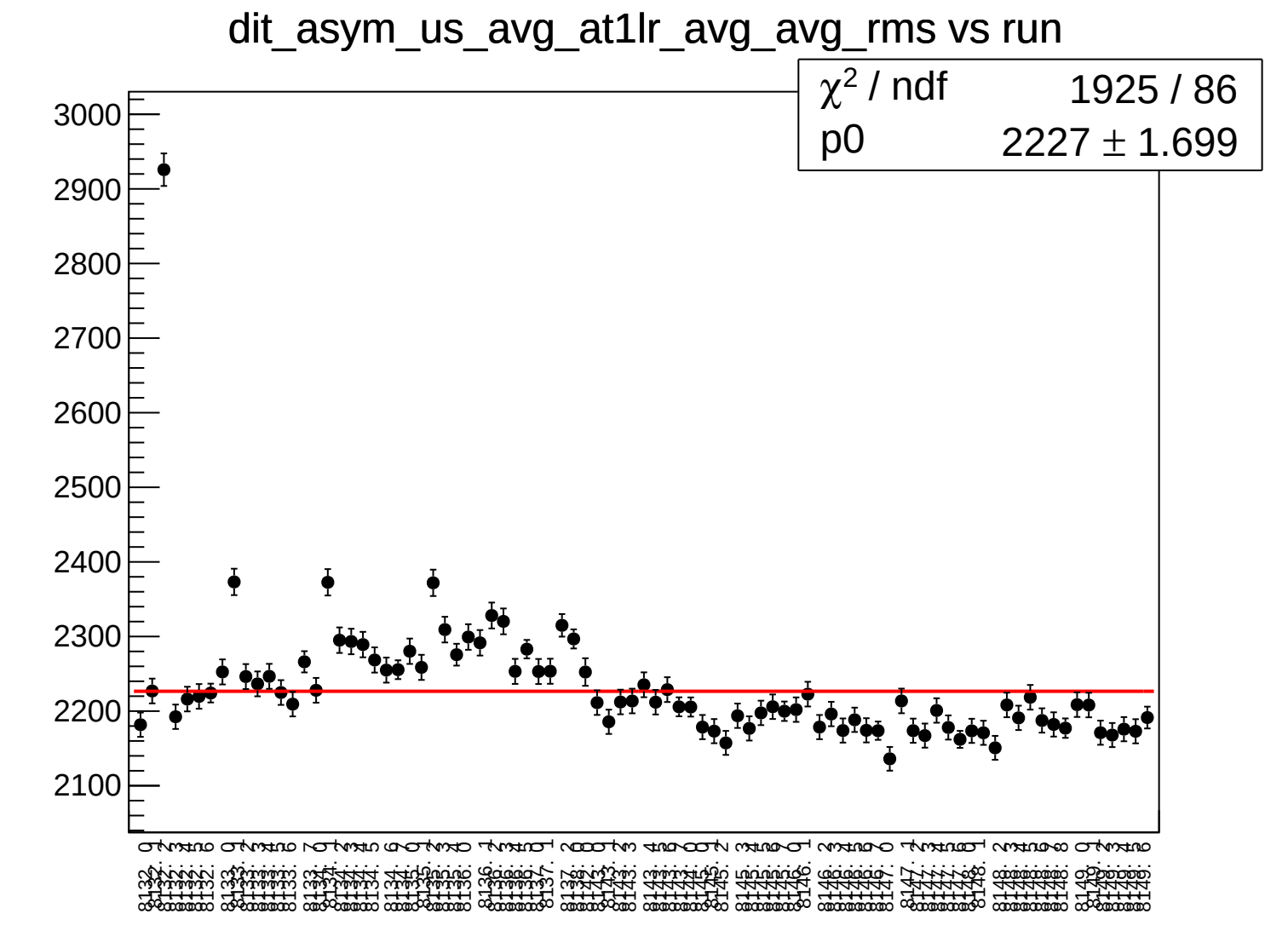

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 95.34 / 86
p0 416.9 ± 682.2
100
50
0
−50
−100
pull
Entries 87
Mean 78.52
Std Dev 0
2
1
0
−1
−2

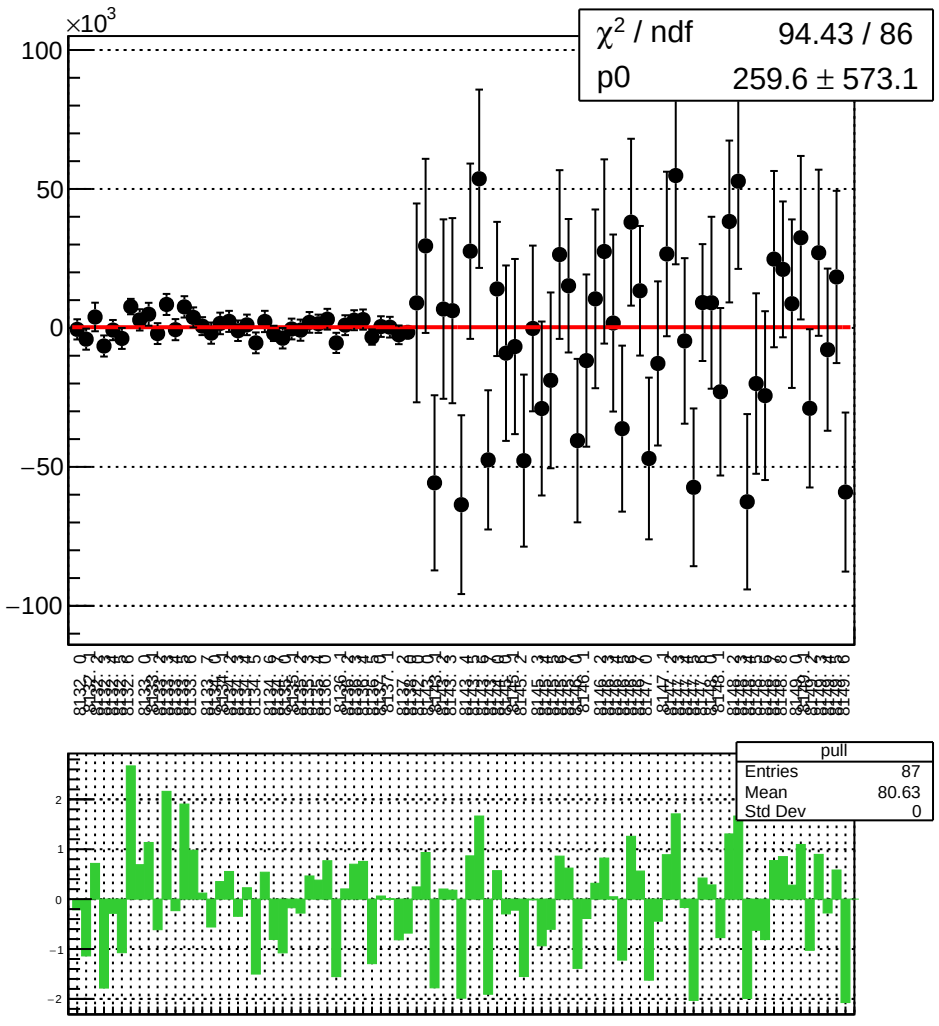

pull1D
Entries 87
Mean −0.0396
Std Dev 1.046
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

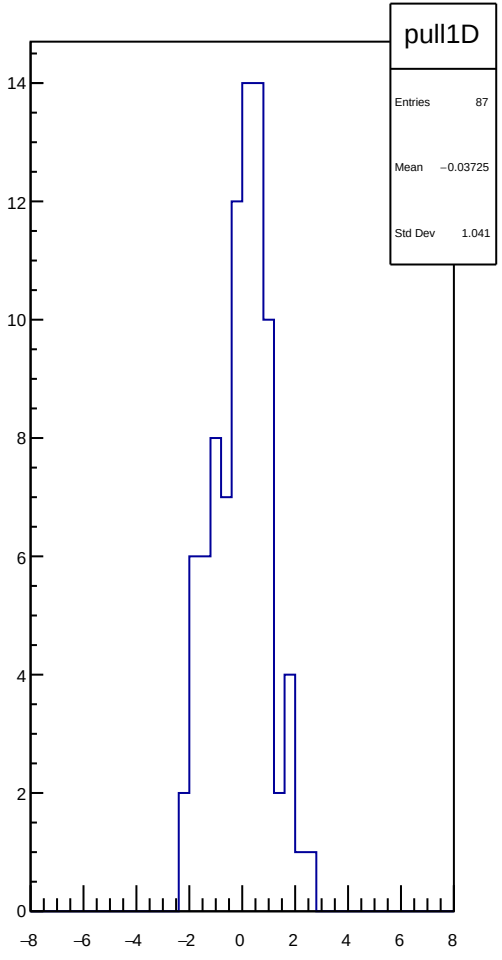

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 7.137e+05 / 86
p0 483.6 ± 0.4824
3500
3000
2500
2000
1500
1000
500

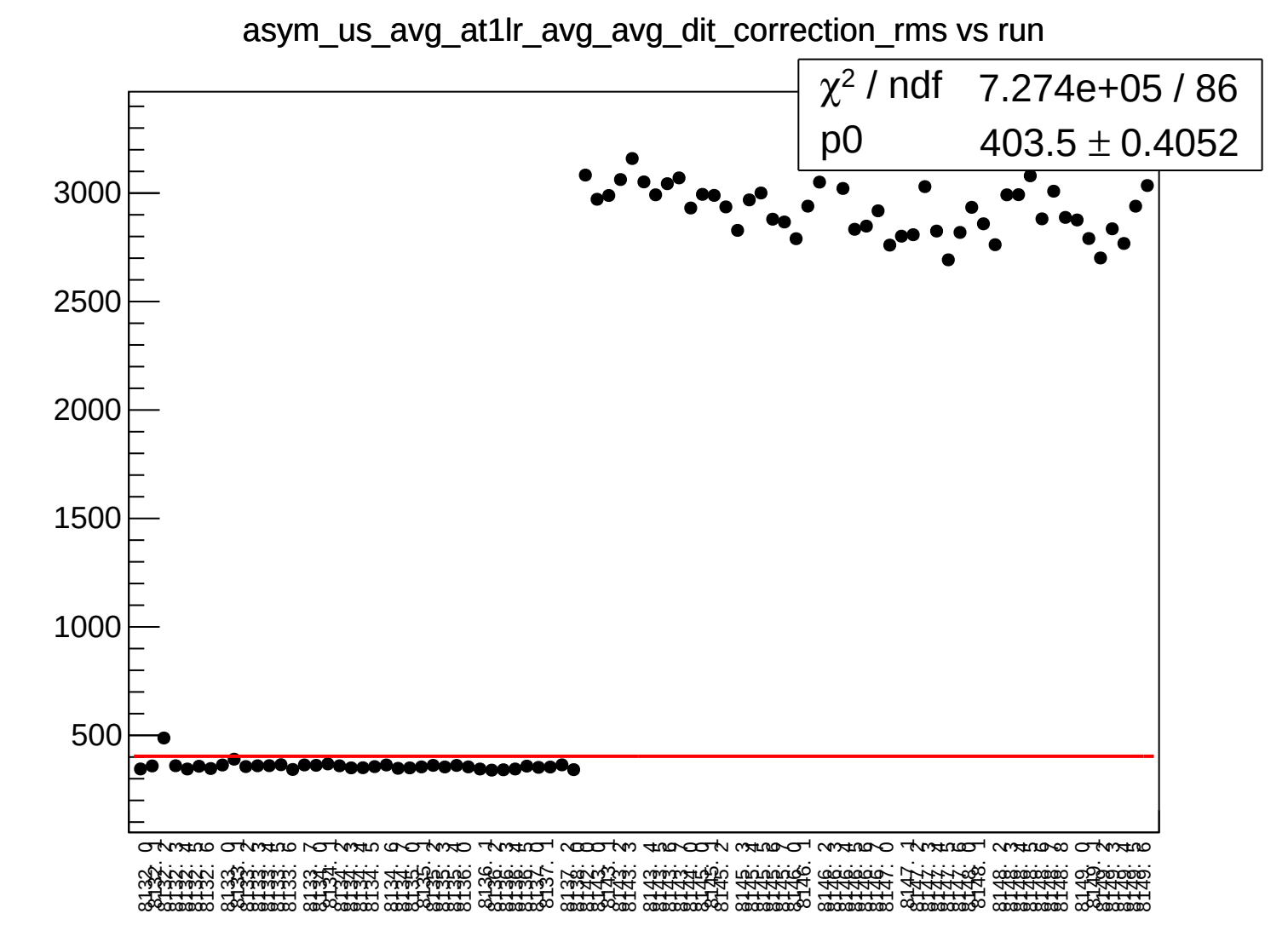

dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 74.68 / 86
p0 4605 ± 2403
pull
Entries 87
Mean 1954
Std Dev 0

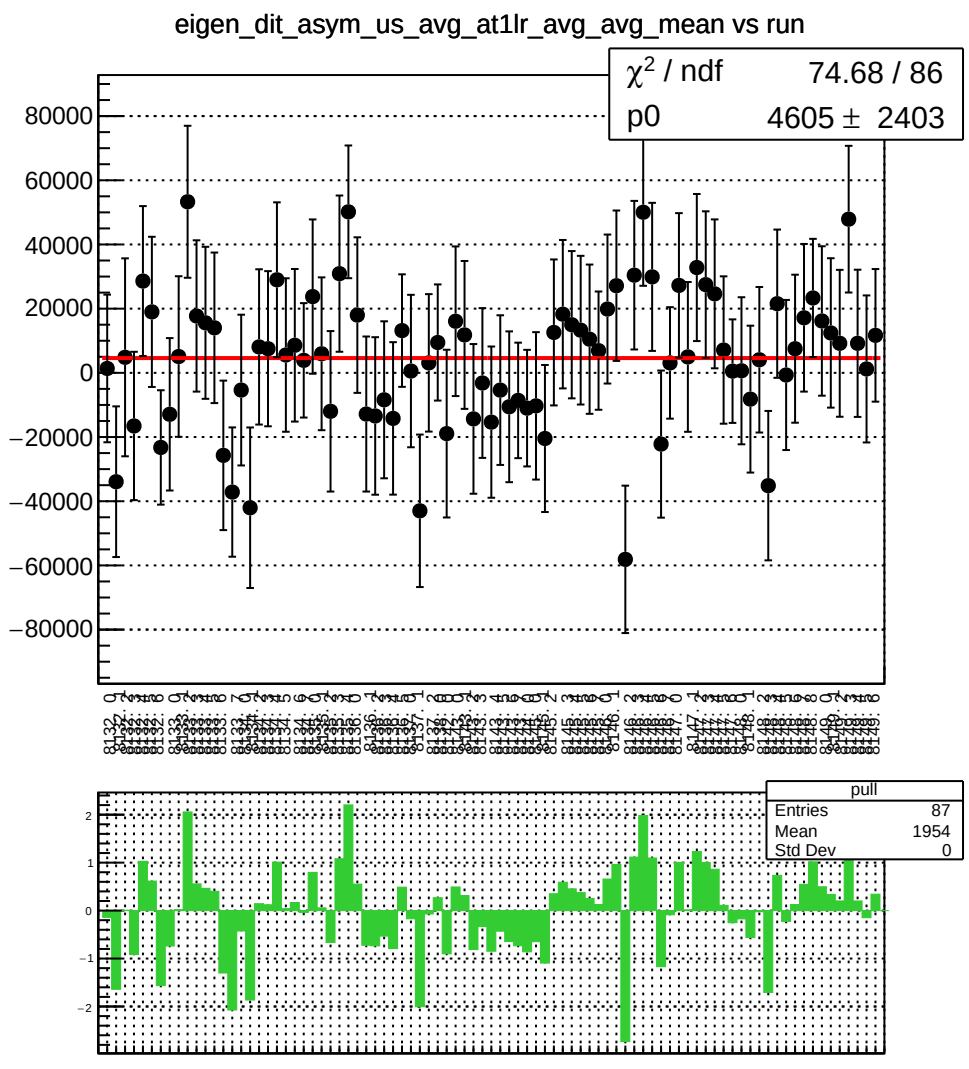

pull1D
Entries 87
Mean 0.002288
Std Dev 0.9265

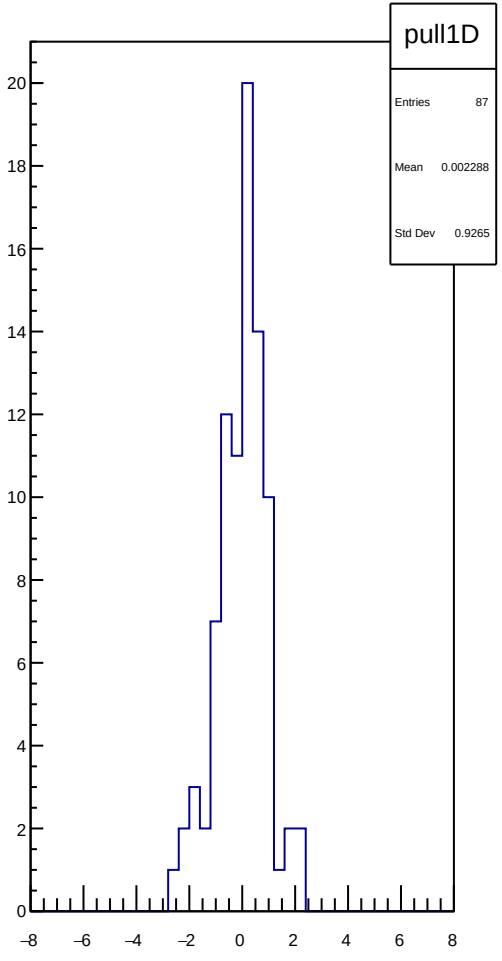

dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 1925 / 86
p0 2227 ± 1.699
3000
2900
2800
2700
2600
2500
2400
2300
2200
2100

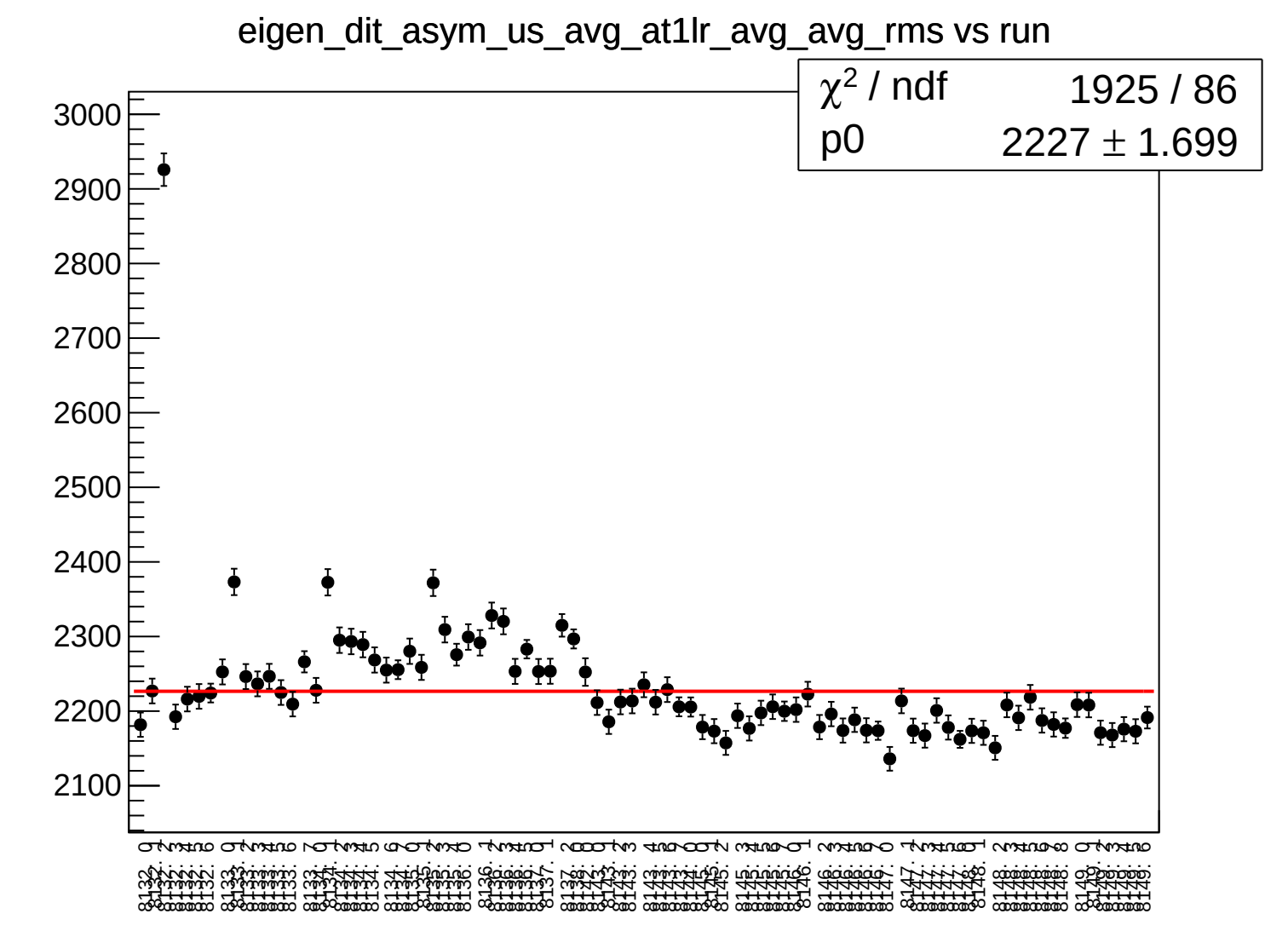

asym_us_avg_at1lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 94.43 / 86
p0 259.6 ± 573.1
100
50
0
−50
−100
pull
Entries 87
Mean 80.63
Std Dev 0
2
1
0
−1
−2

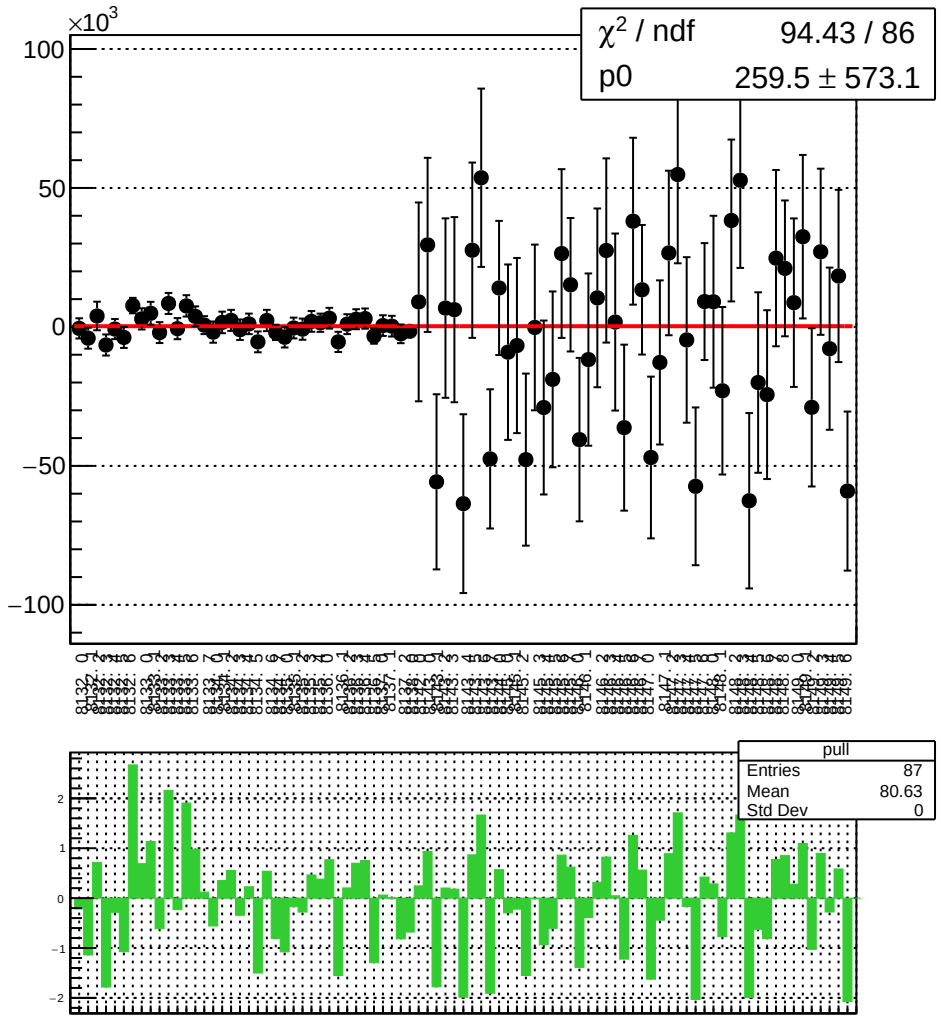

pull1D
Entries 87
Mean −0.03725
Std Dev 1.041
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

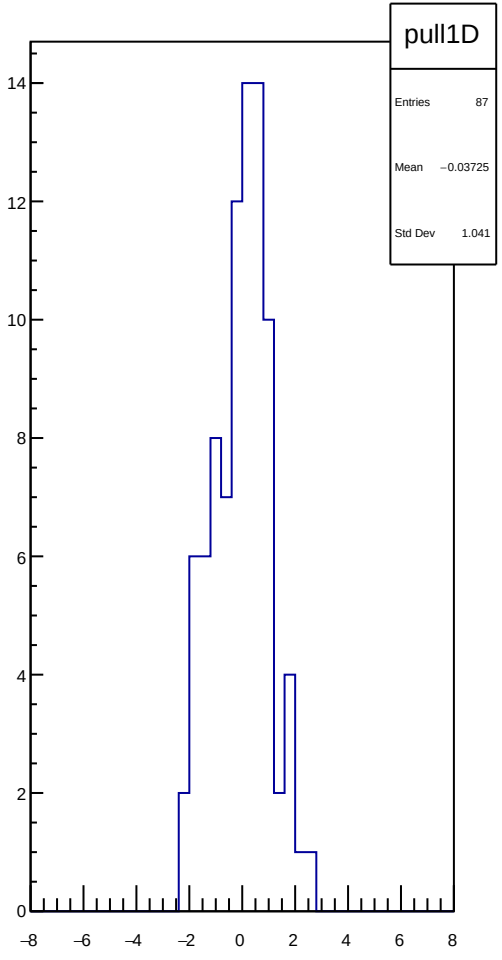

asym_us_avg_at1lr_avg_avg_dit_correction_rms vs run
χ² / ndf 7.274e+05 / 86
p0 403.5 ± 0.4052
3000
2500
2000
1500
1000
500

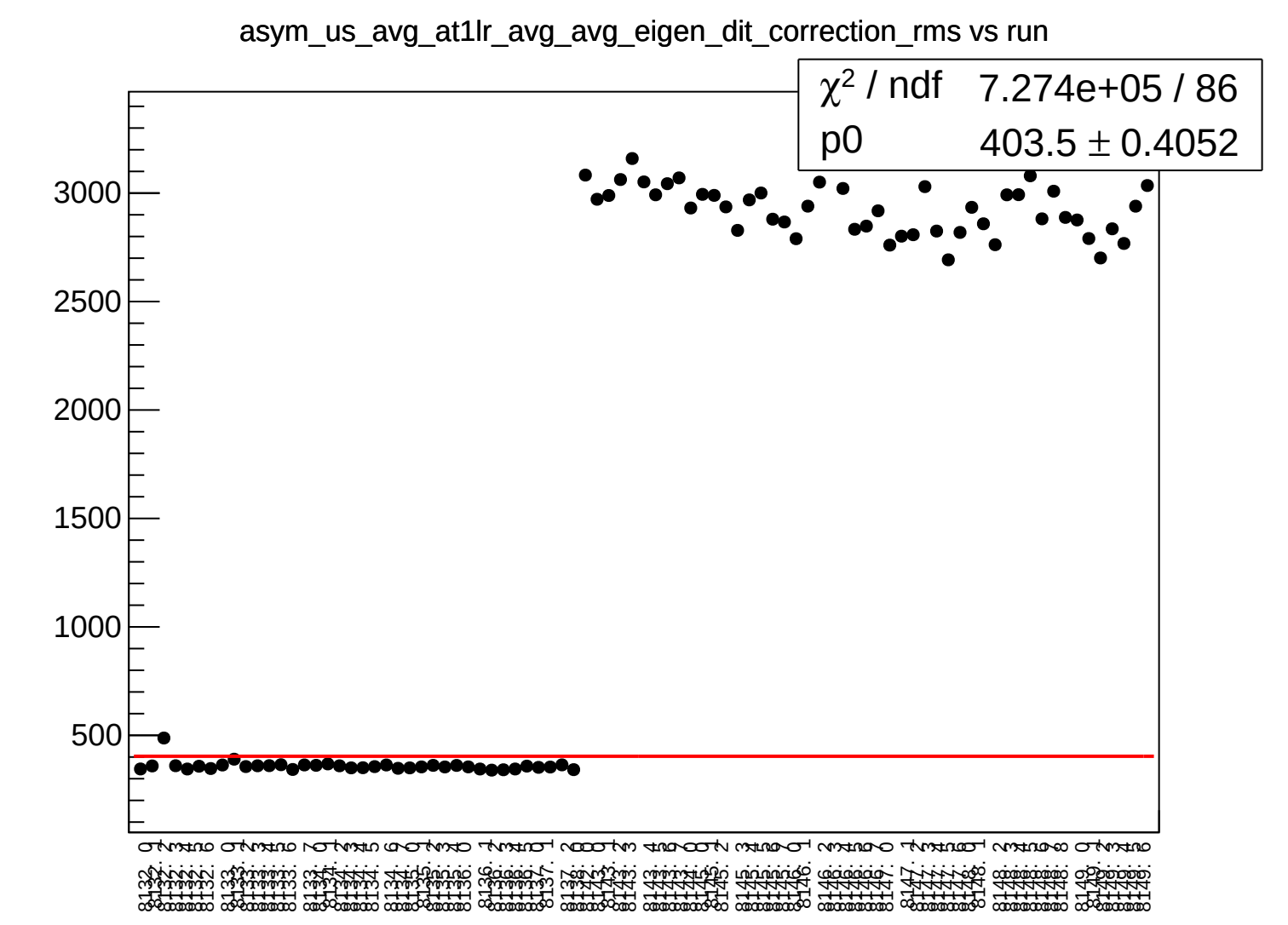

eigen_dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 74.68 / 86
p0 4605 ± 2403
pull
Entries 87
Mean 1954
Std Dev 0

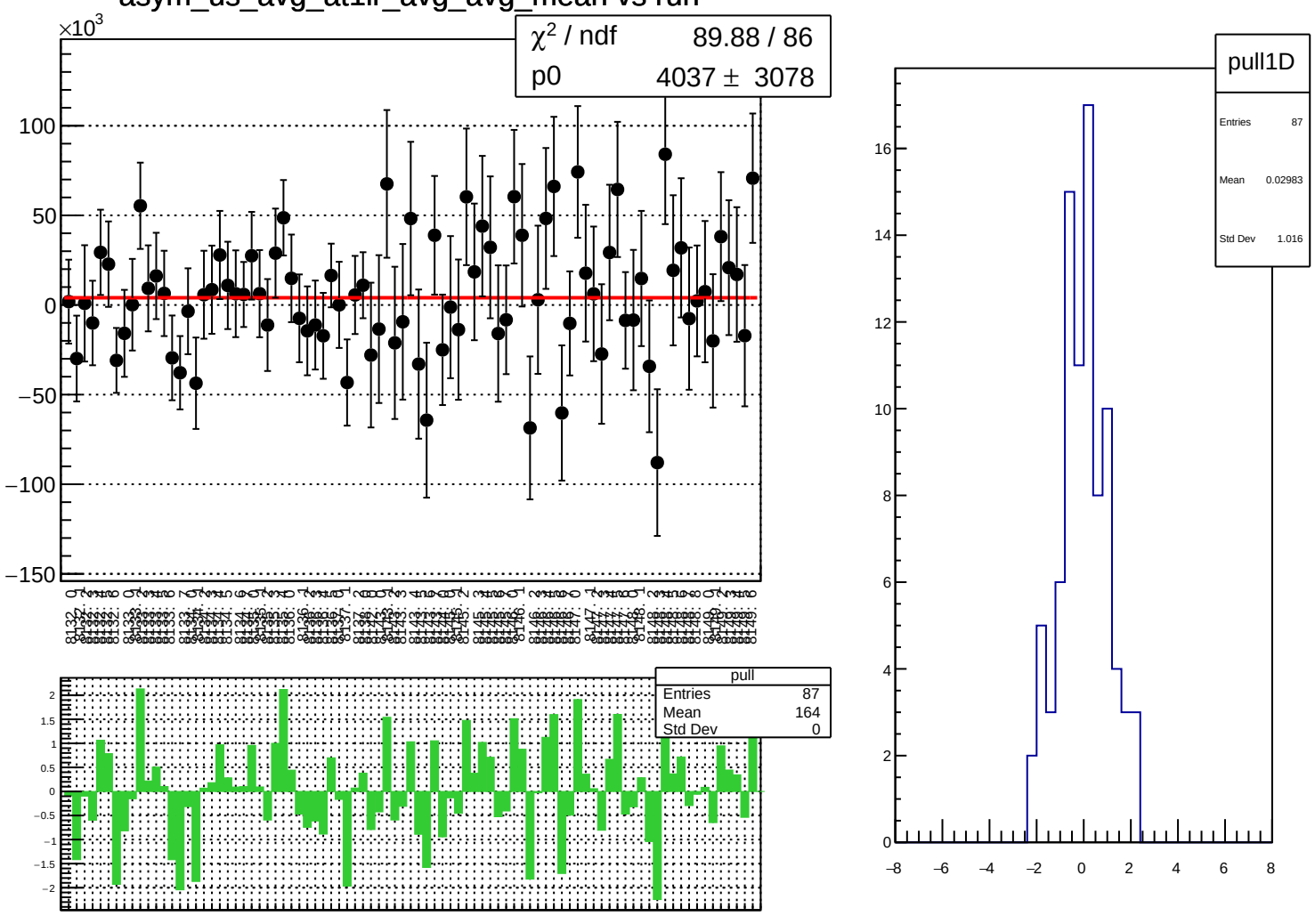

pull1D
Entries 87
Mean 0.002288
Std Dev 0.9265

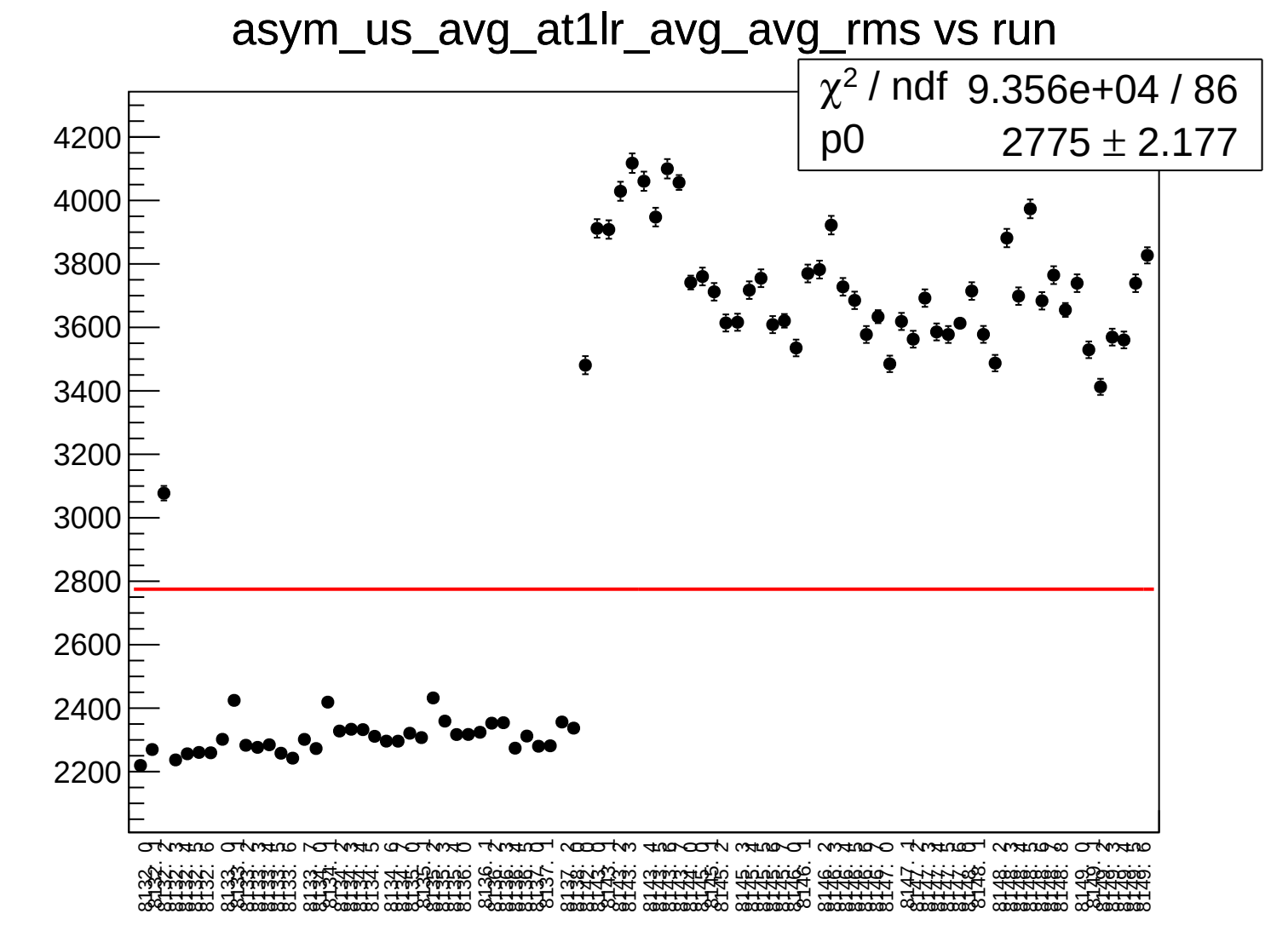

eigen_dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 1925 / 86
p0 2227 ± 1.699
3000
2900
2800
2700
2600
2500
2400
2300
2200
2100

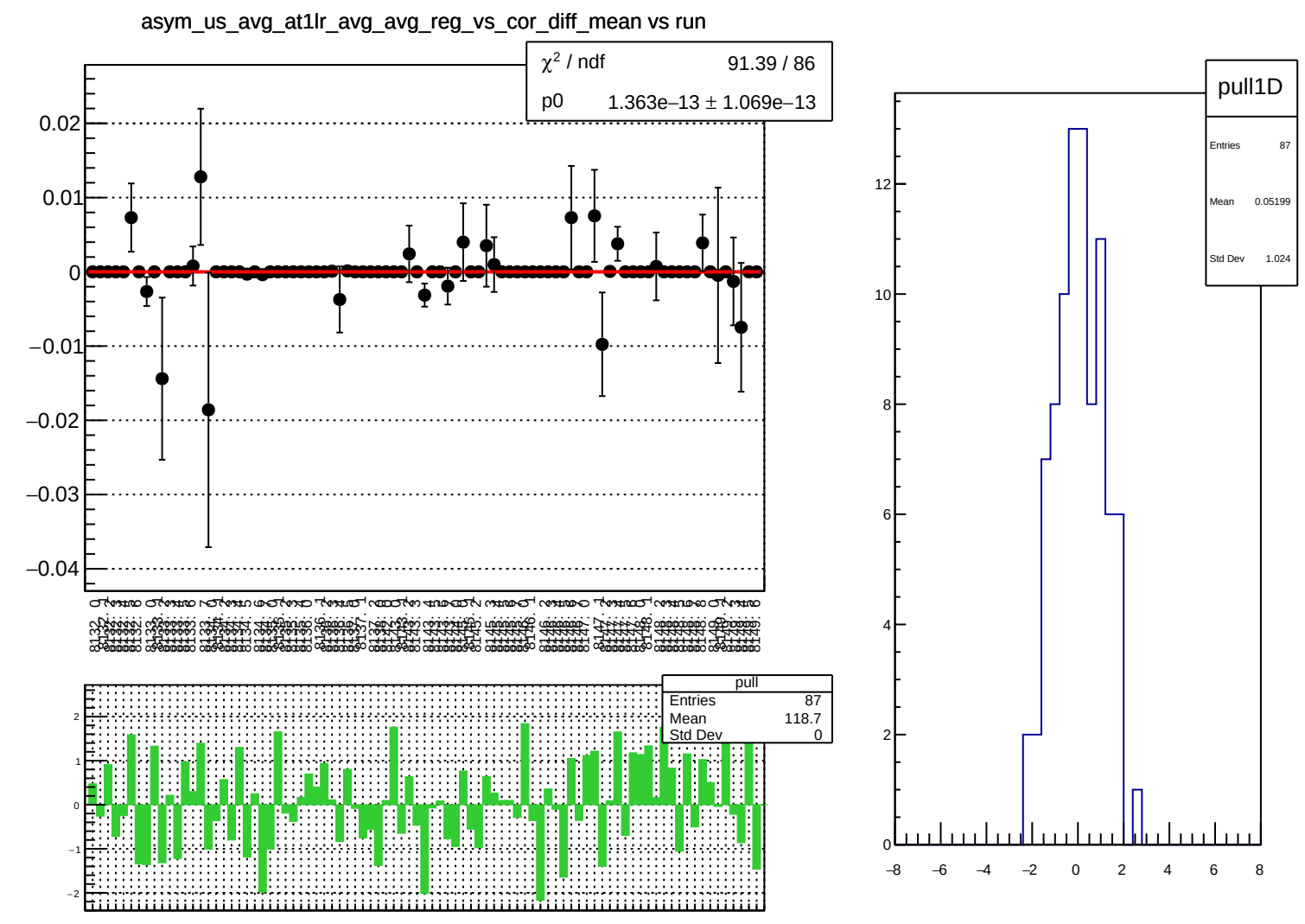

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 94.43 / 86
p0 259.5 ± 573.1
pull
Entries 87
Mean 80.63
Std Dev 0

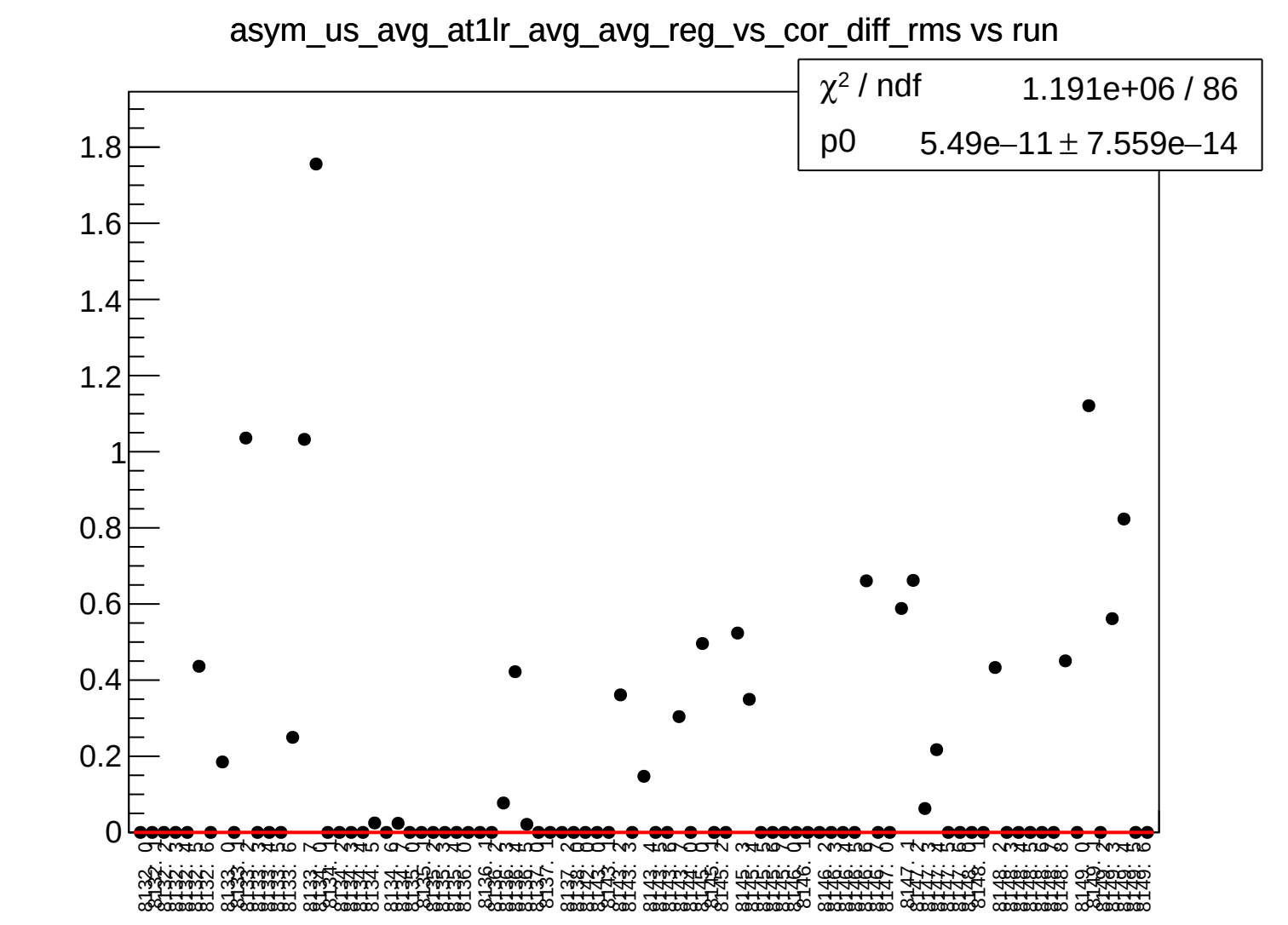

pull1D
Entries 87
Mean −0.03725
Std Dev 1.041

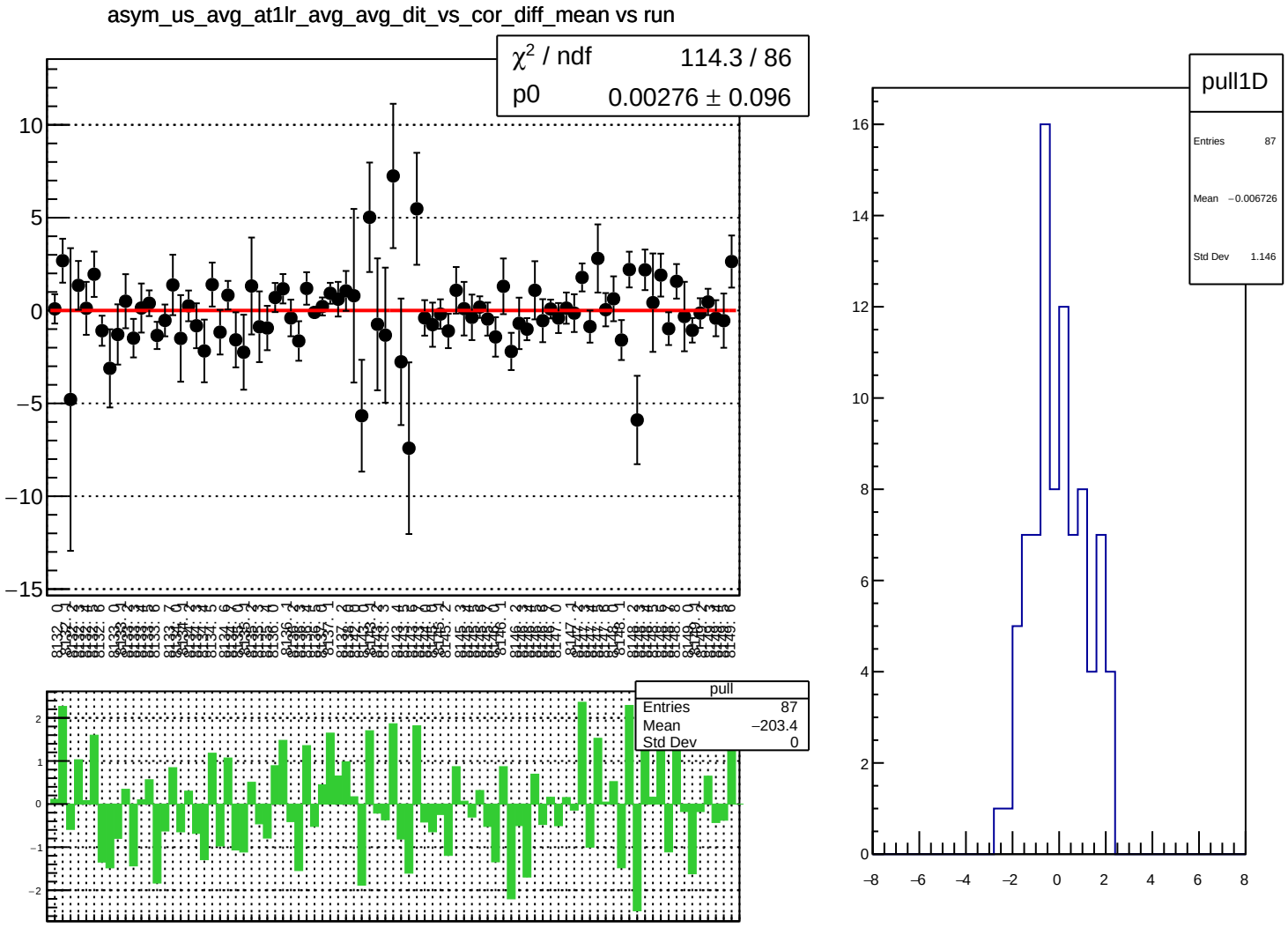

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 7.274e+05 / 86
p0 403.5 ± 0.4052
3000
2500
2000
1500
1000
500

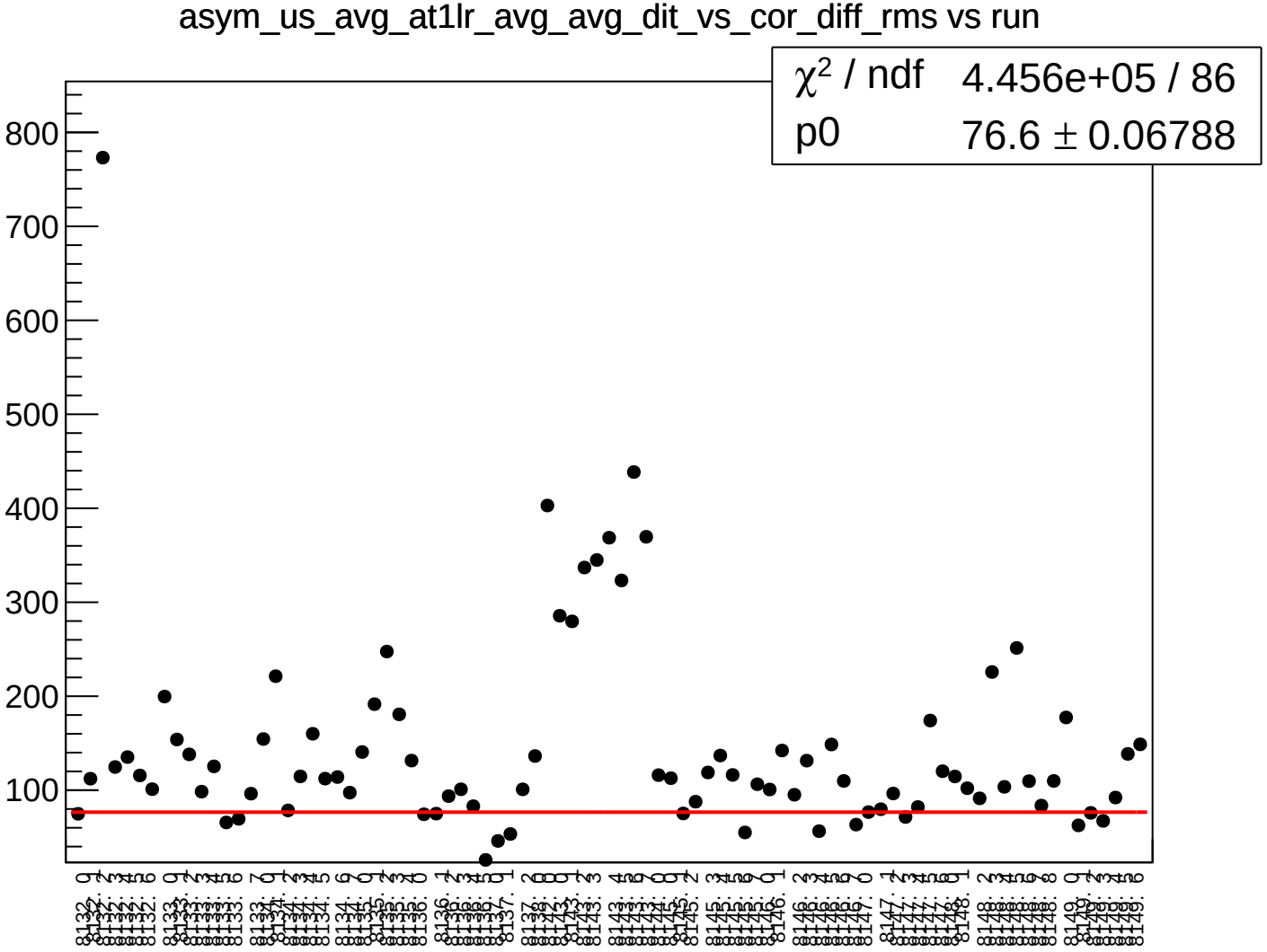

asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 89.88 / 86
p0 4037 ± 3078
100
50
0
−50
−100
−150
pull
Entries 87
Mean 164
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 87
Mean 0.02983
Std Dev 1.016
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

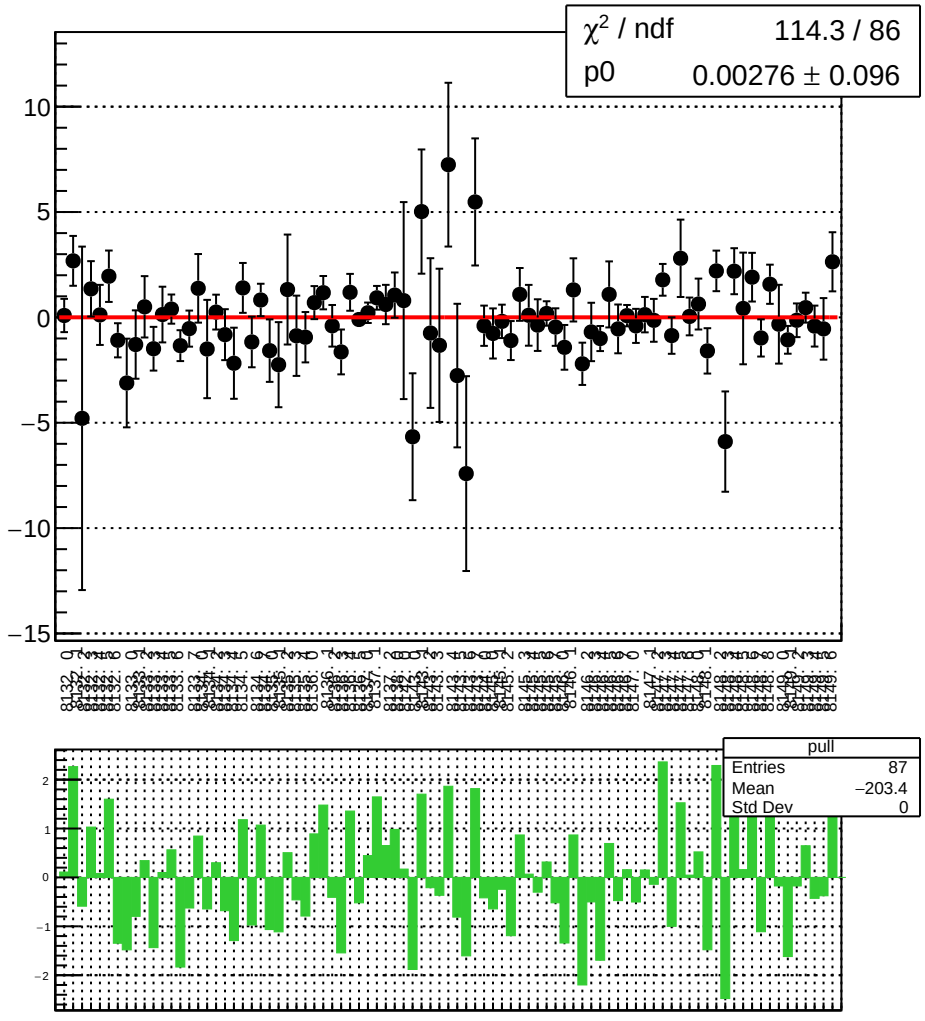

asym_us_avg_at1lr_avg_avg_rms vs run
χ^2 / ndf 9.356e+04 / 86
p0 2775 ± 2.177
4200
4000
3800
3600
3400
3200
3000
2800
2600
2400
2200

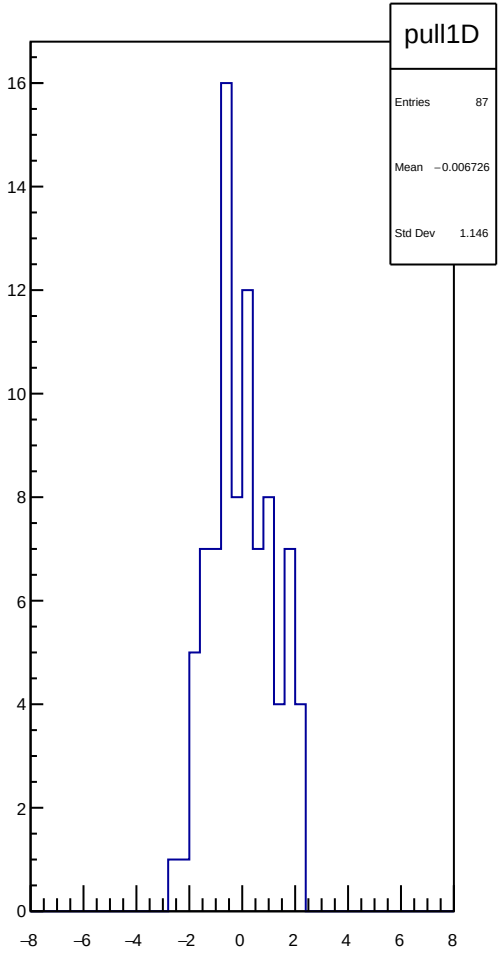

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 91.39 / 86
p0 1.363e−13 ± 1.069e−13
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 87
Mean 118.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.05199
Std Dev 1.024
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

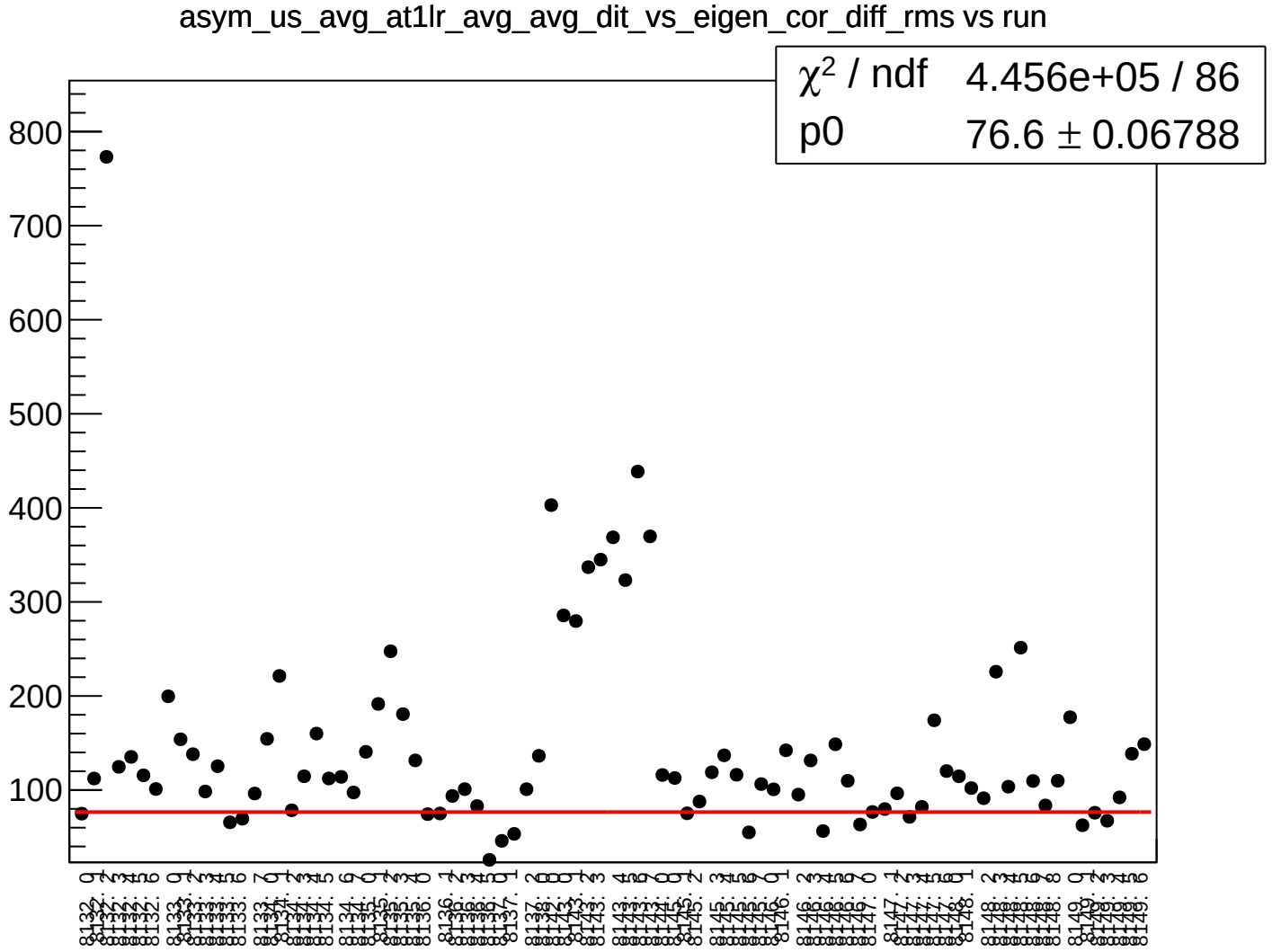

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.191e+06 / 86
p0 5.49e−11 ± 7.559e−14
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

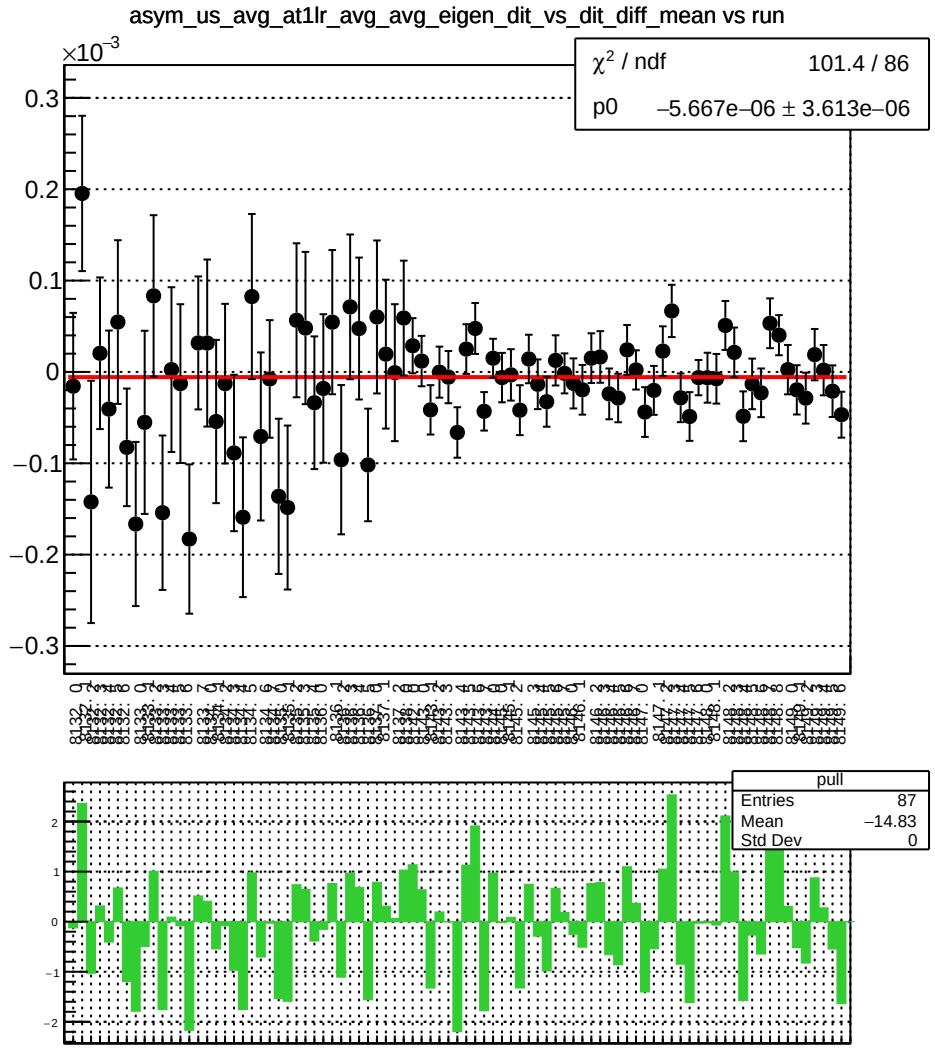

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 114.3 / 86
p0 0.00276 ± 0.096
pull
Entries 87
Mean −203.4
Std Dev 0
pull1D
Entries 87
Mean −0.006726
Std Dev 1.146

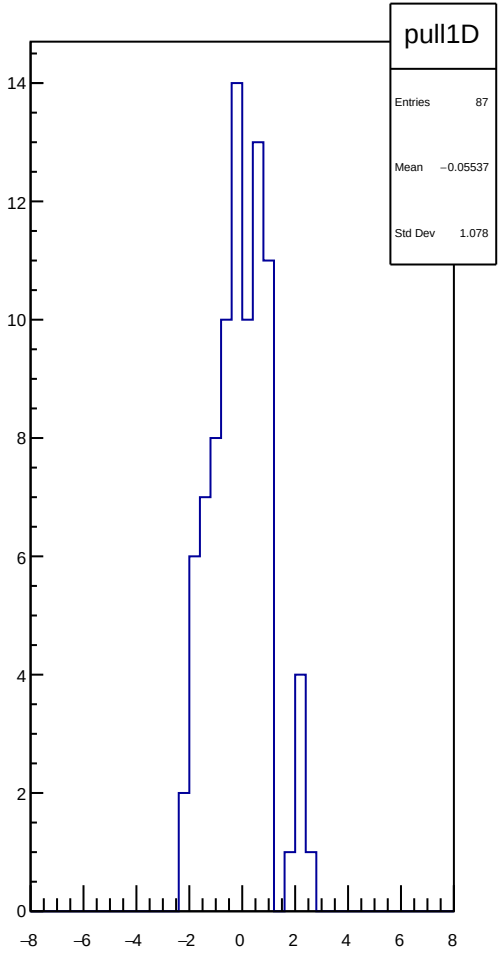

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.456e+05 / 86
p0 76.6 ± 0.06788
800
700
600
500
400
300
200
100

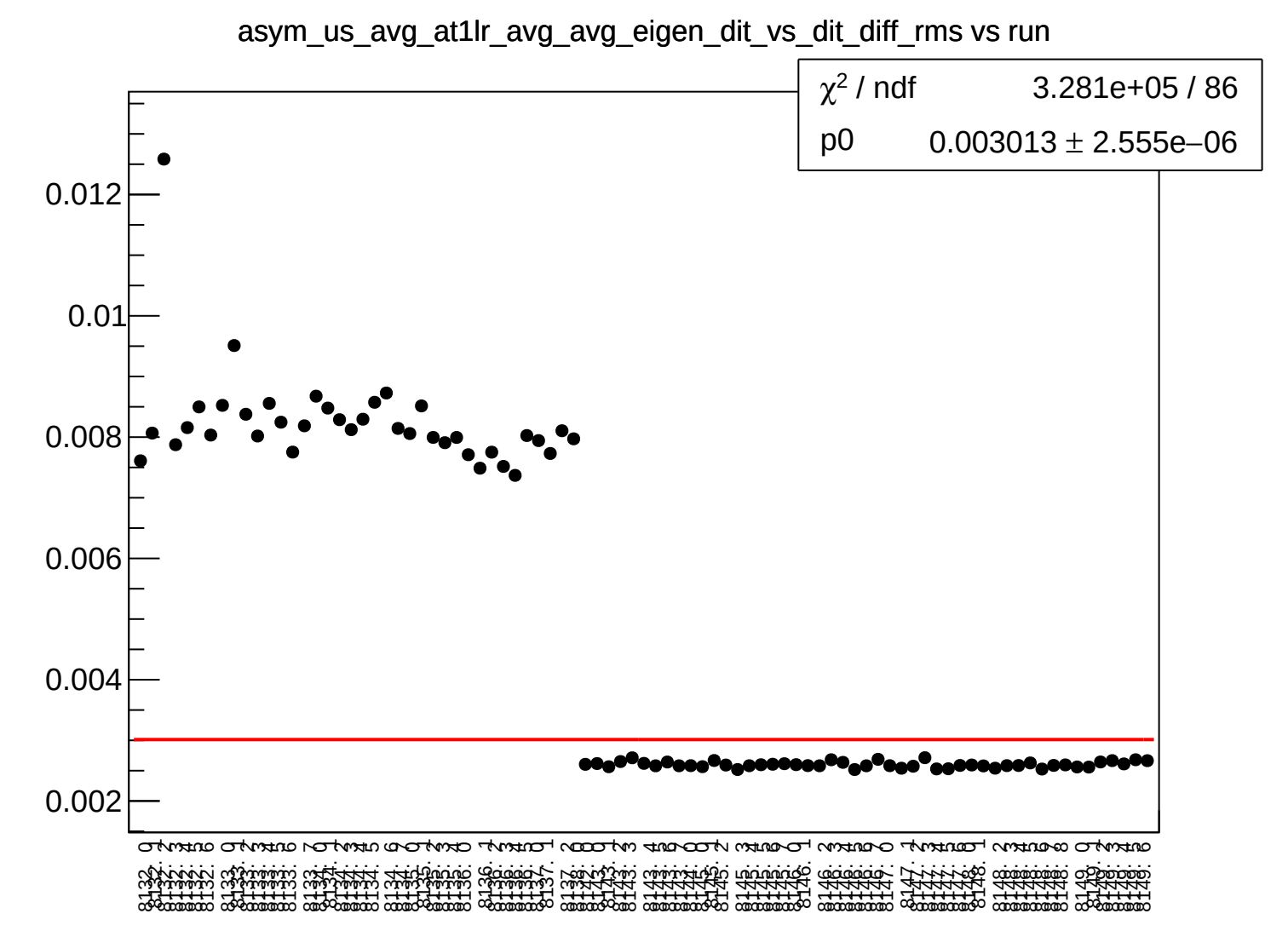

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 114.3 / 86
p0 0.00276 ± 0.096
pull
Entries 87
Mean −203.4
Std Dev 0

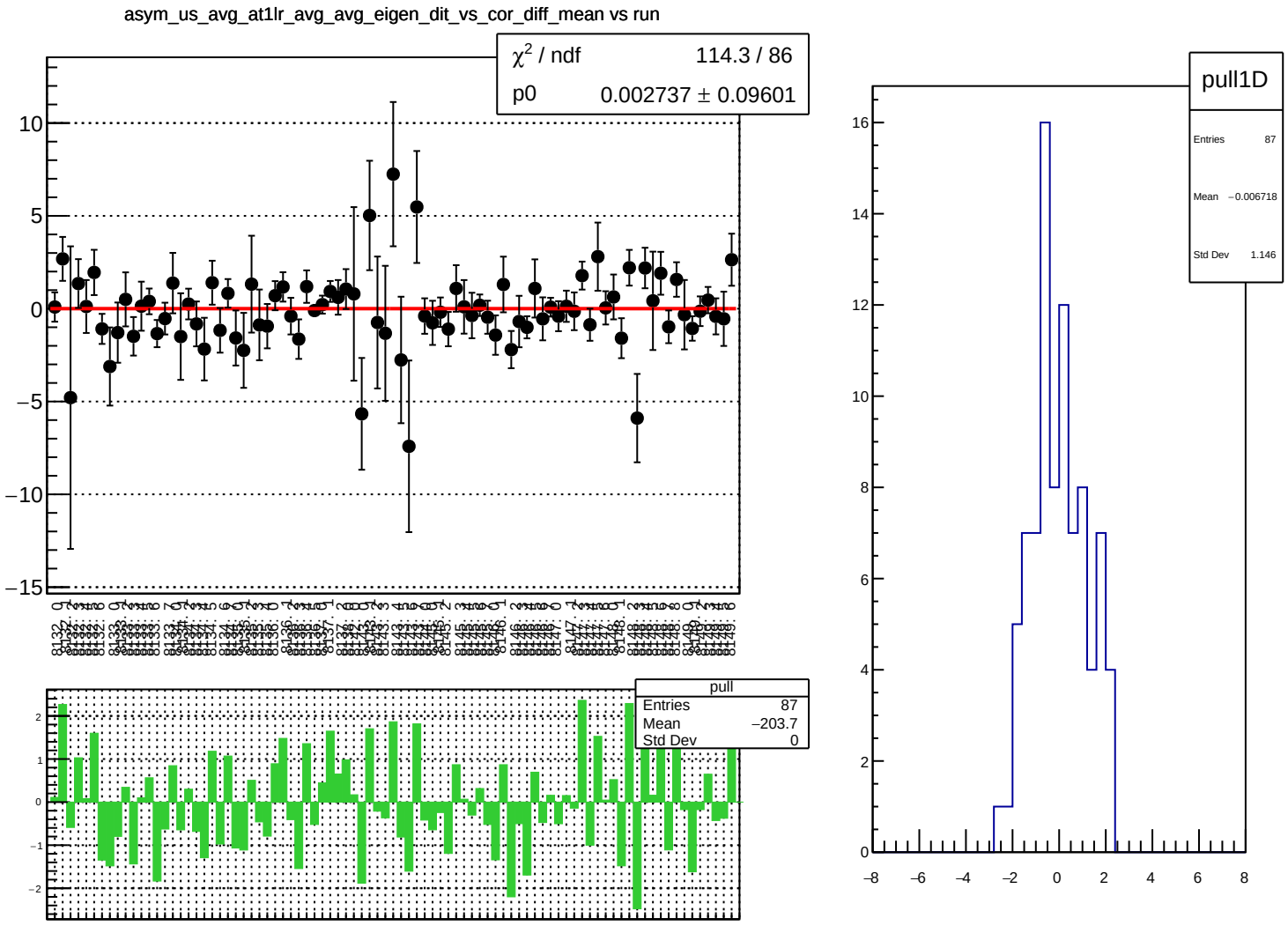

pull1D
Entries 87
Mean −0.006726
Std Dev 1.146

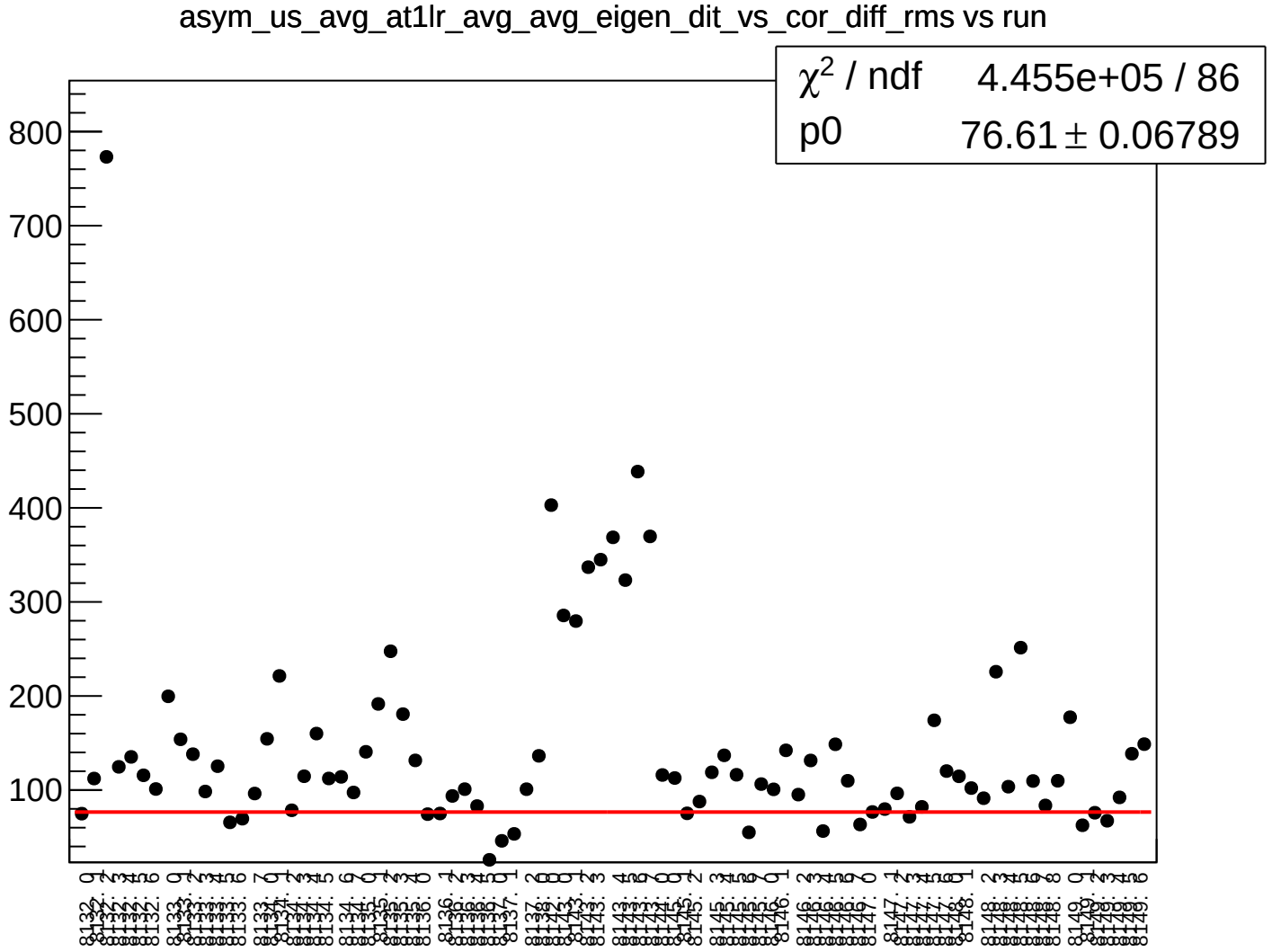

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.456e+05 / 86
p0 76.6 ± 0.06788
800
700
600
500
400
300
200
100

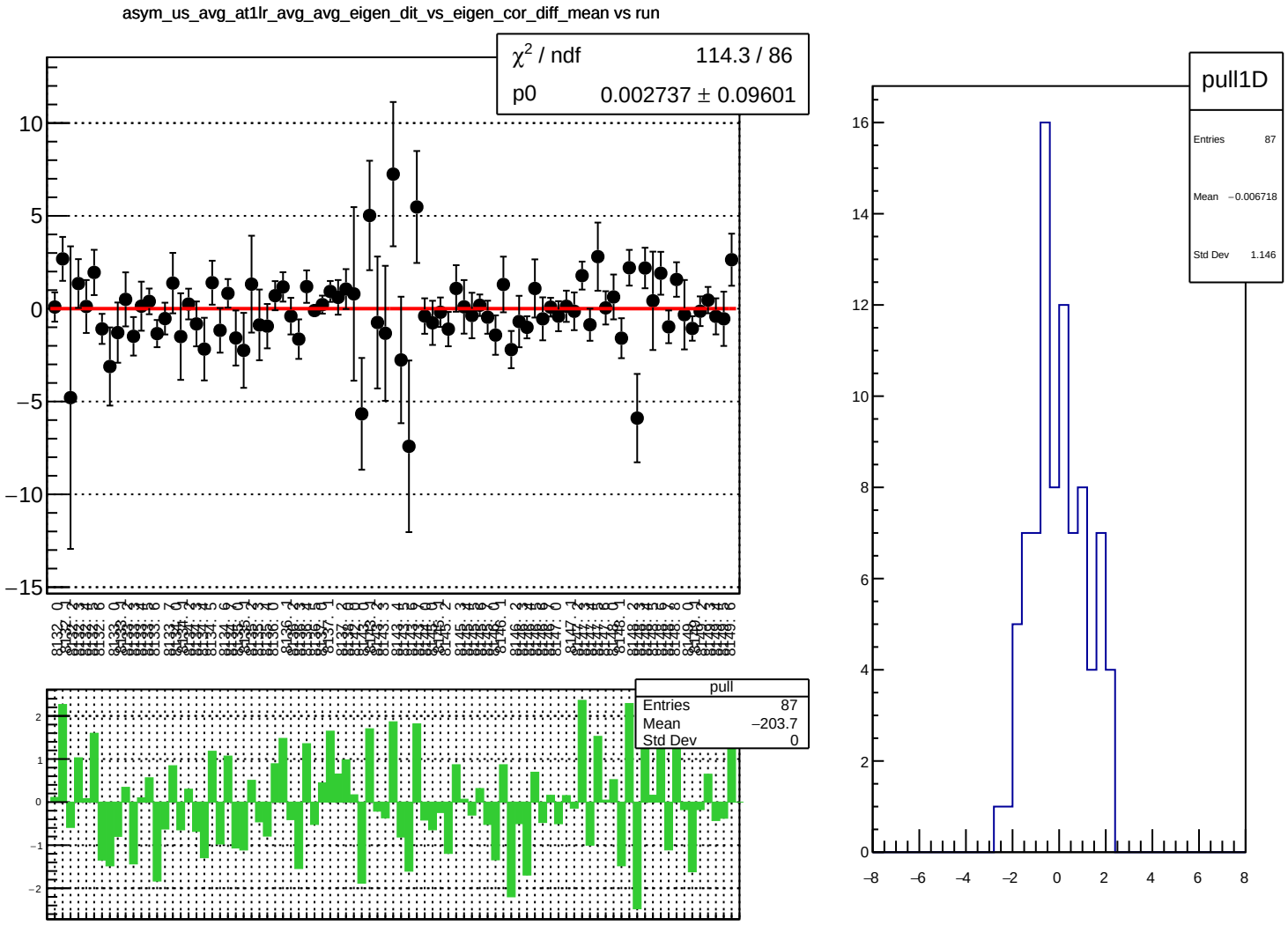

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 101.4 / 86
p0 −5.667e−06 ± 3.613e−06
pull
Entries 87
Mean −14.83
Std Dev 0

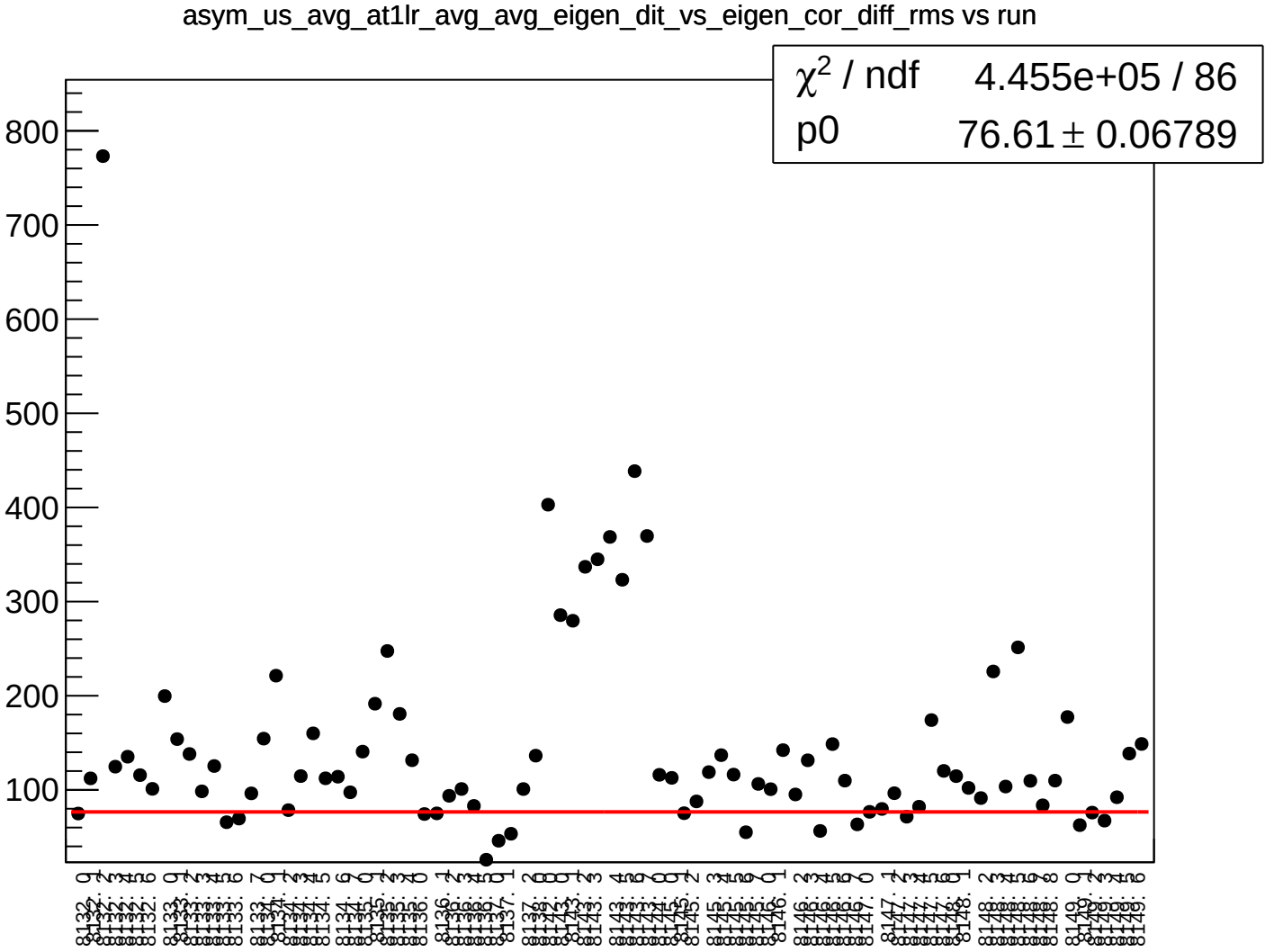

pull1D
Entries 87
Mean −0.05537
Std Dev 1.078

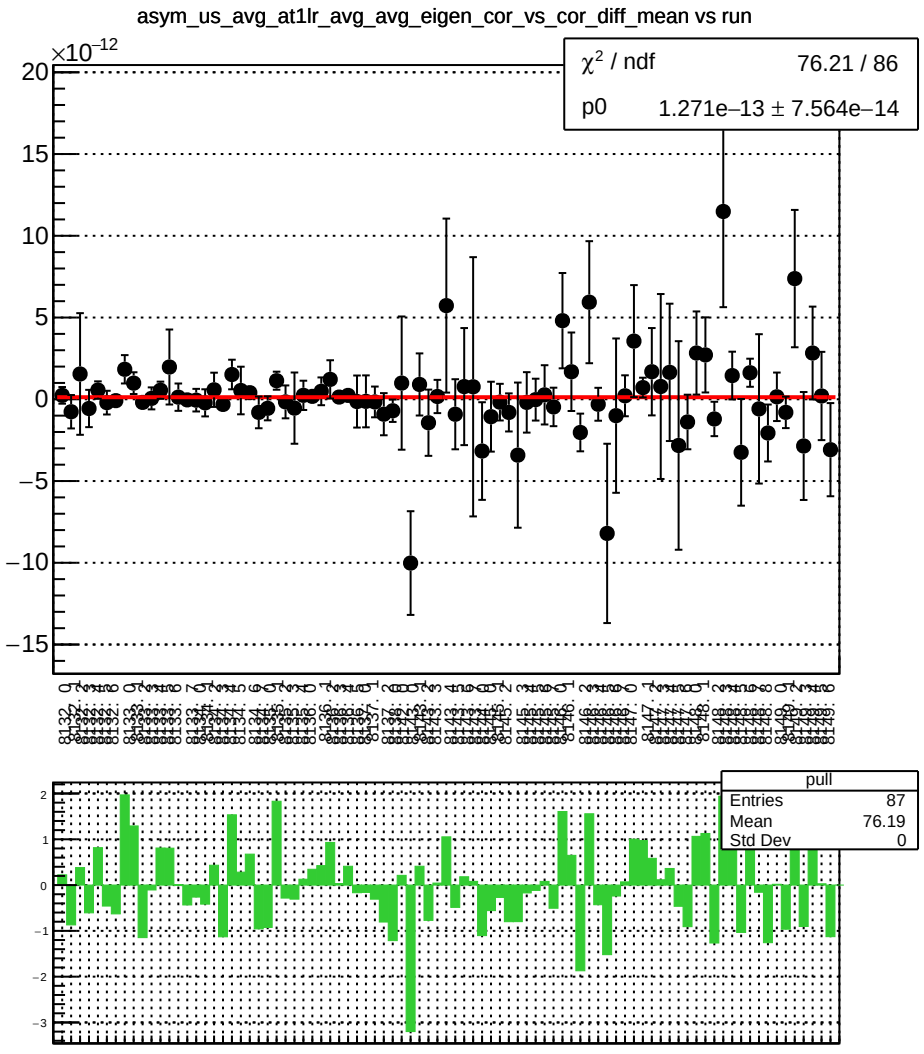

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.281e+05 / 86
p0 0.003013 ± 2.555e−06
0.012
0.01
0.008
0.006
0.004
0.002

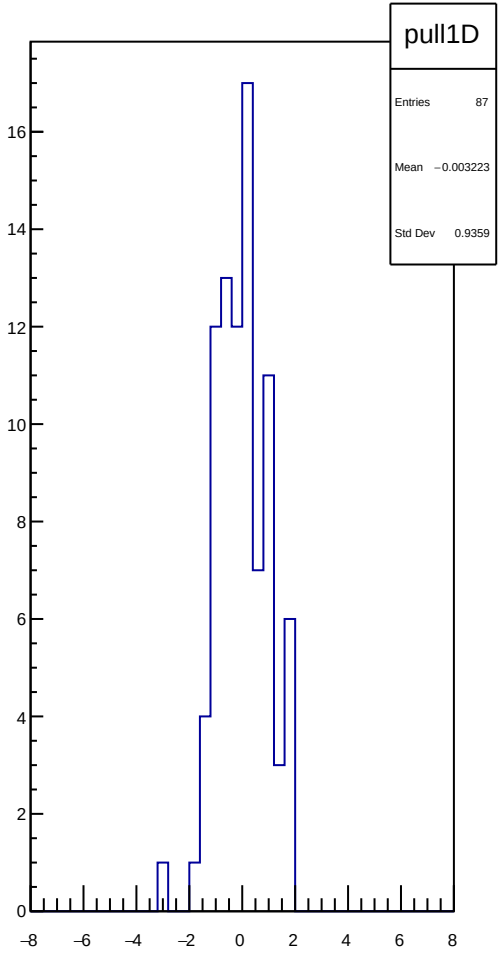

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 114.3 / 86
p0 0.002737 ± 0.09601
pull
Entries 87
Mean −203.7
Std Dev 0
pull1D
Entries 87
Mean −0.006718
Std Dev 1.146

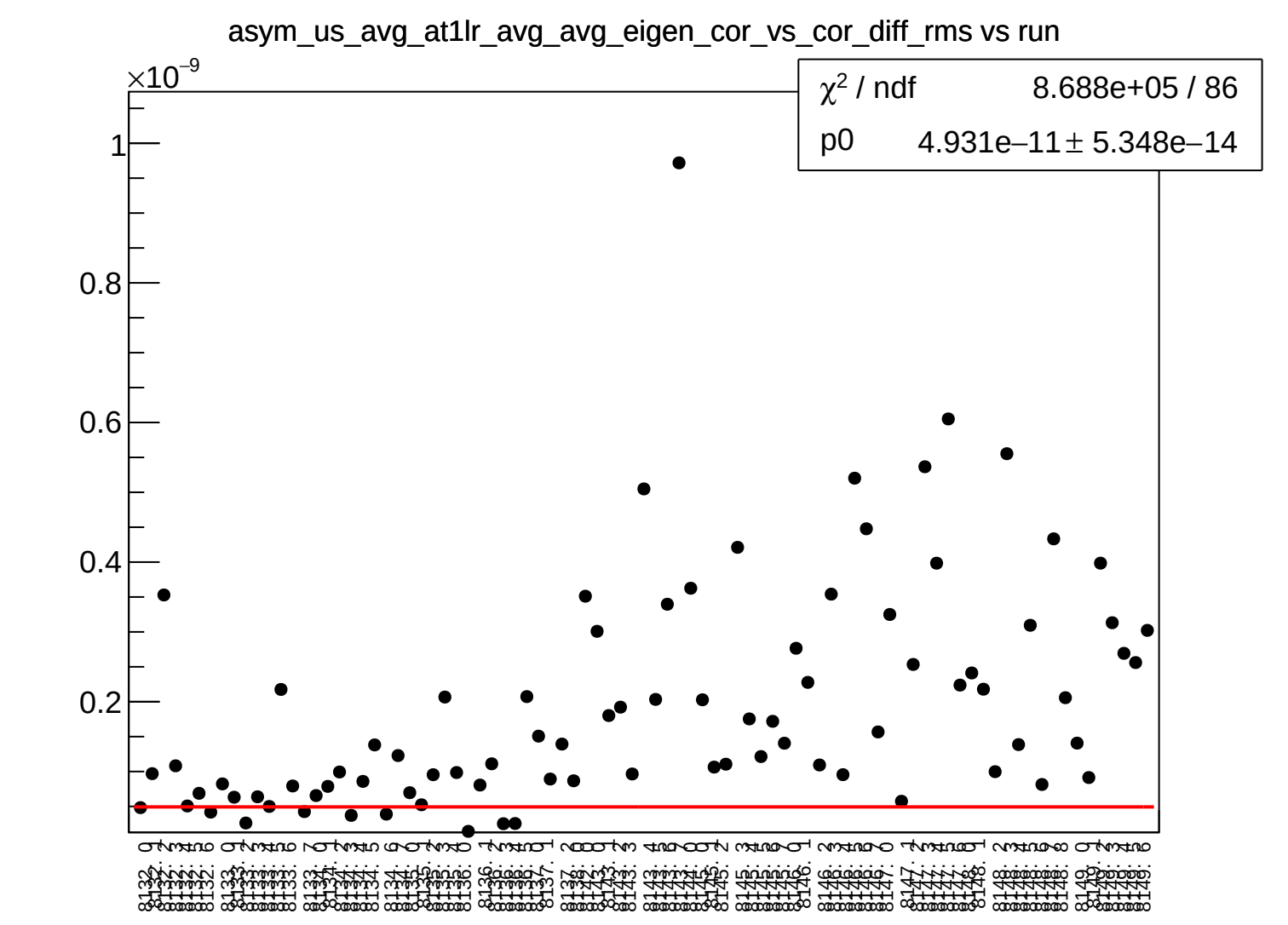

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.455e+05 / 86
p0 76.61 ± 0.06789
800
700
600
500
400
300
200
100

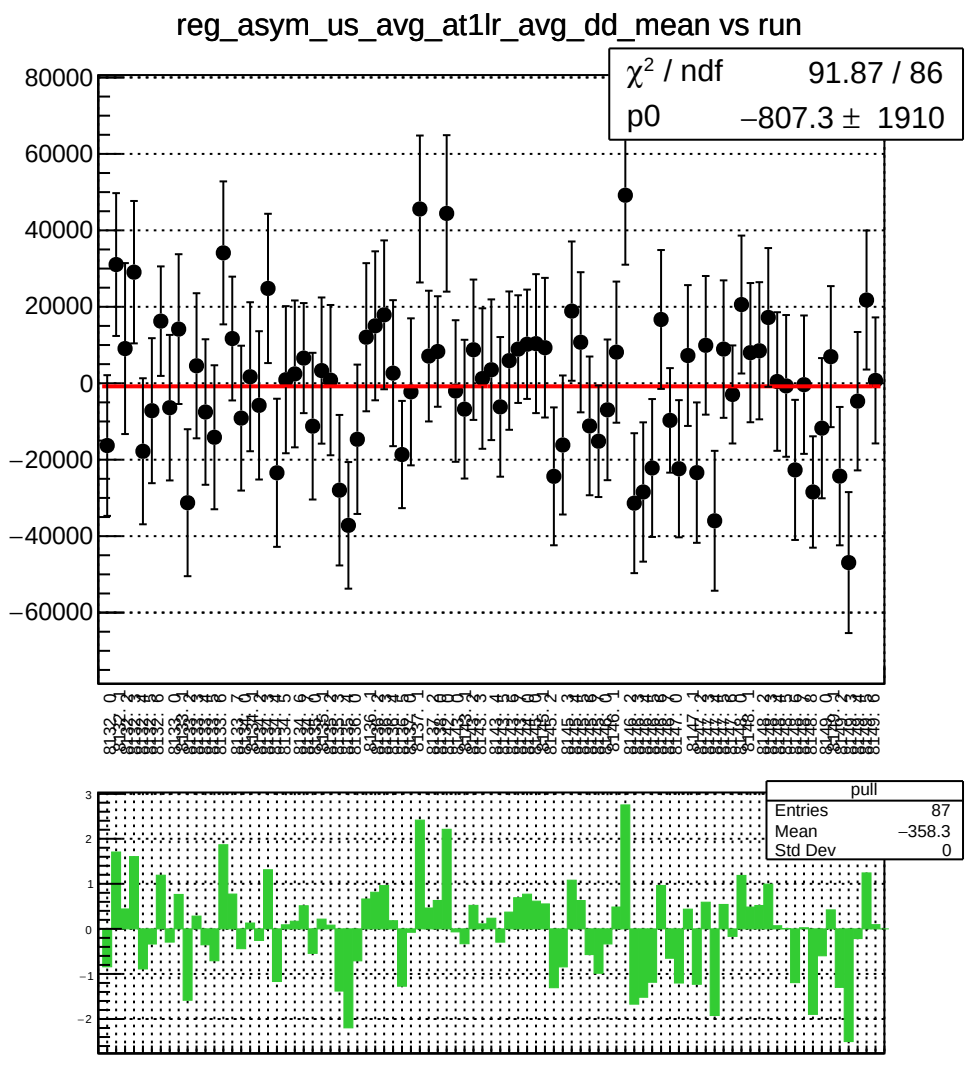

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 114.3 / 86
p0 0.002737 ± 0.09601
pull
Entries 87
Mean −203.7
Std Dev 0
pull1D
Entries 87
Mean −0.006718
Std Dev 1.146

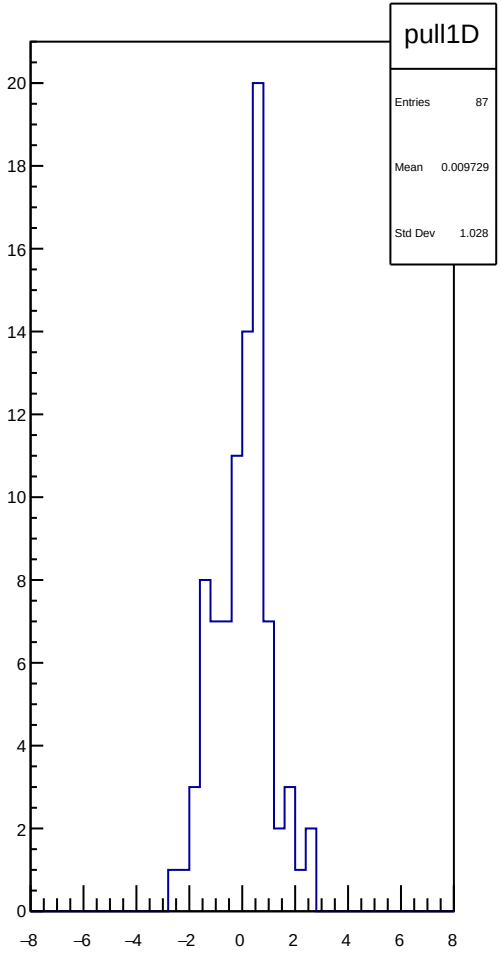

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 4.455e+05 / 86
p0 76.61 ± 0.06789
800
700
600
500
400
300
200
100

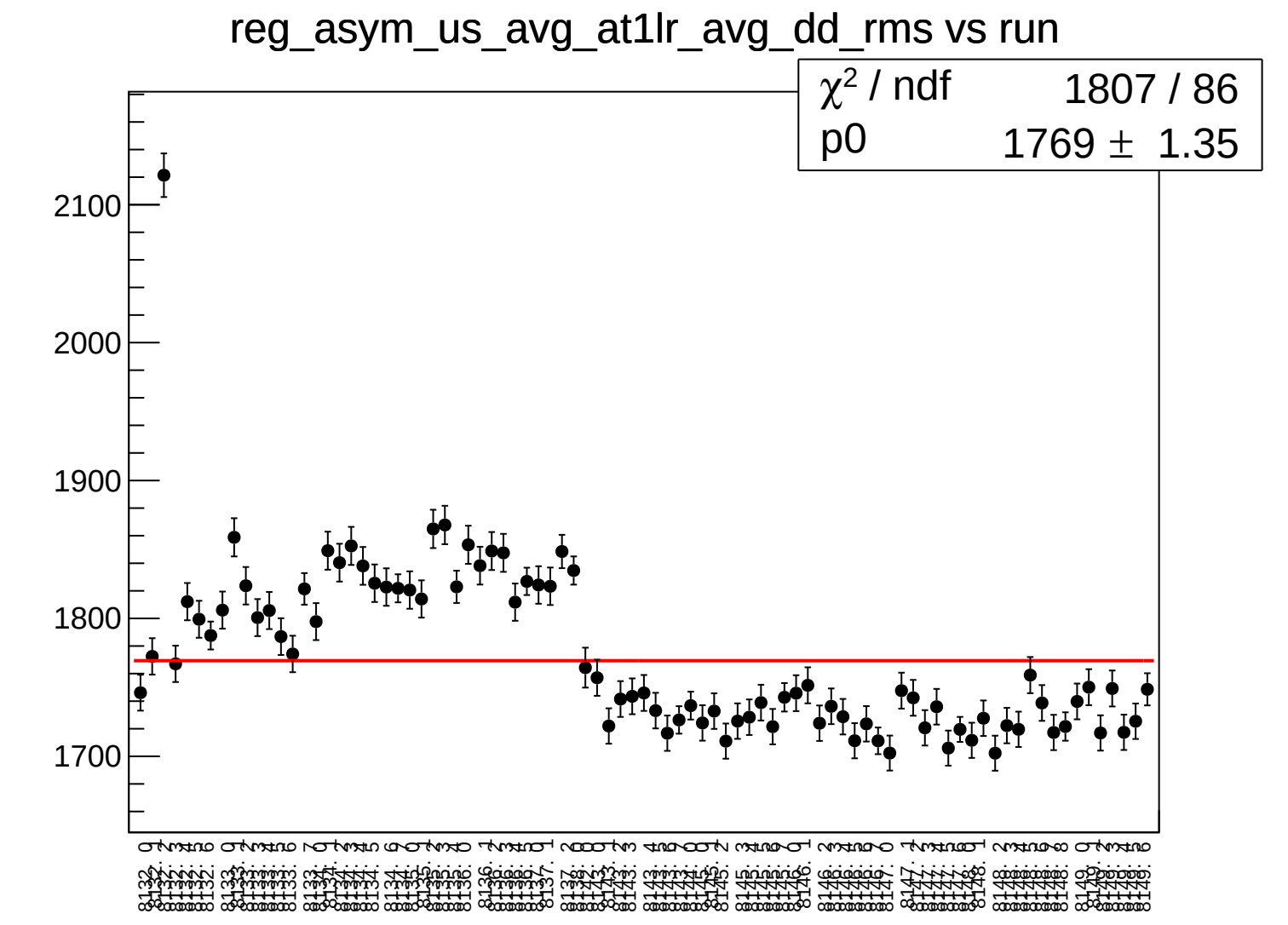

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 76.21 / 86
p0 1.271e−13 ± 7.564e−14
pull
Entries 87
Mean 76.19
Std Dev 0

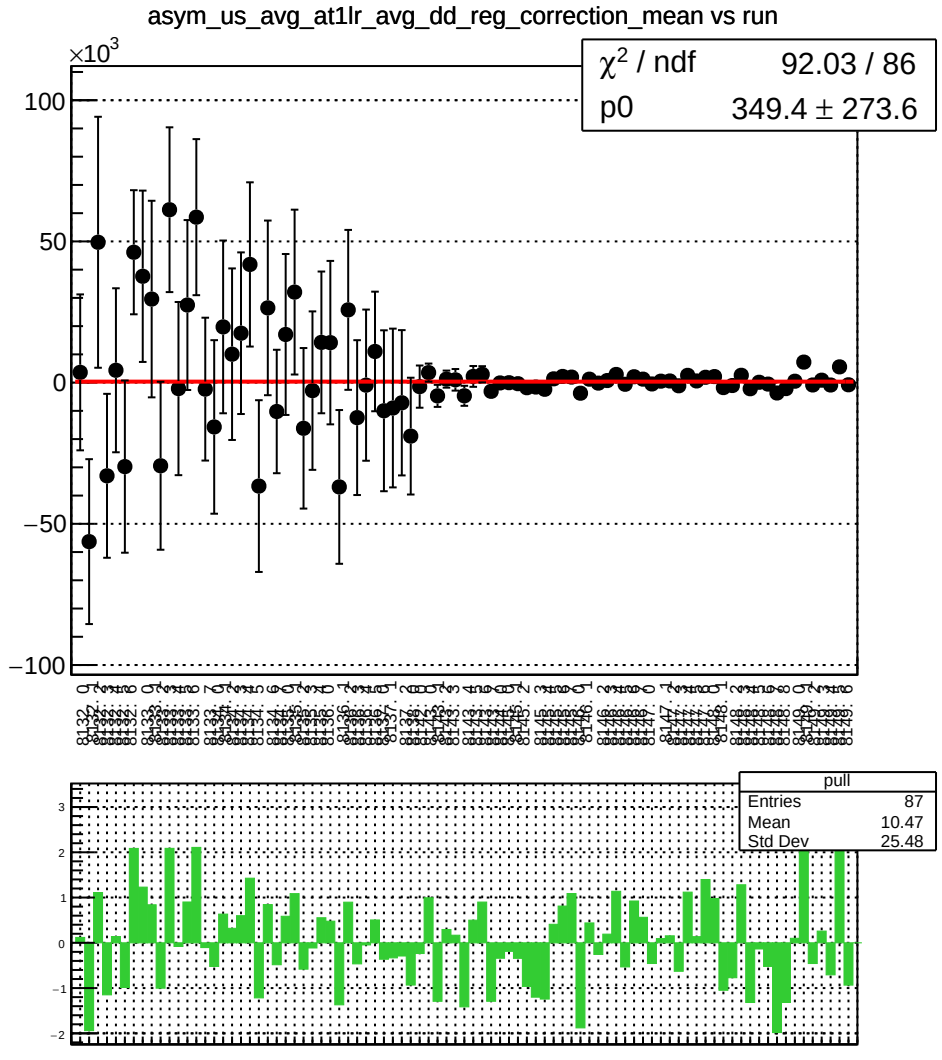

pull1D
Entries 87
Mean −0.003223
Std Dev 0.9359

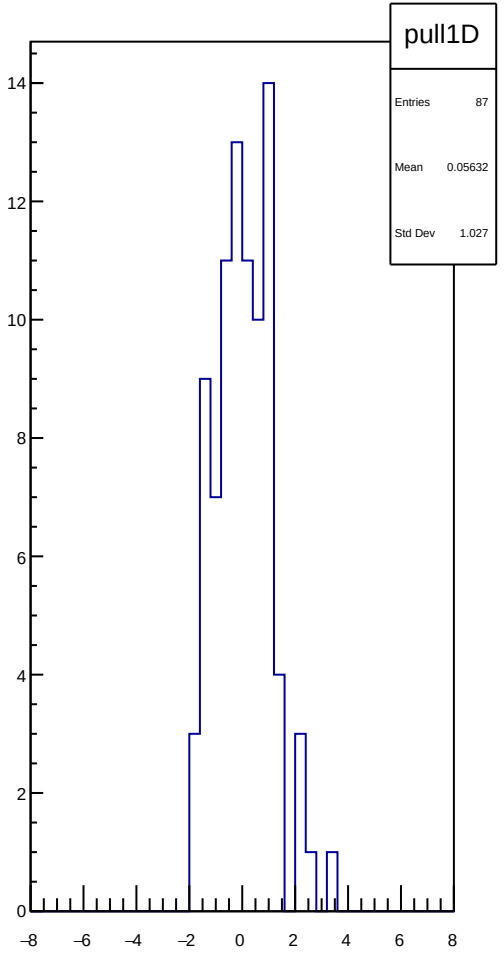

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.688e+05 / 86
p0 4.931e−11 ± 5.348e−14
1
0.8
0.6
0.4
0.2

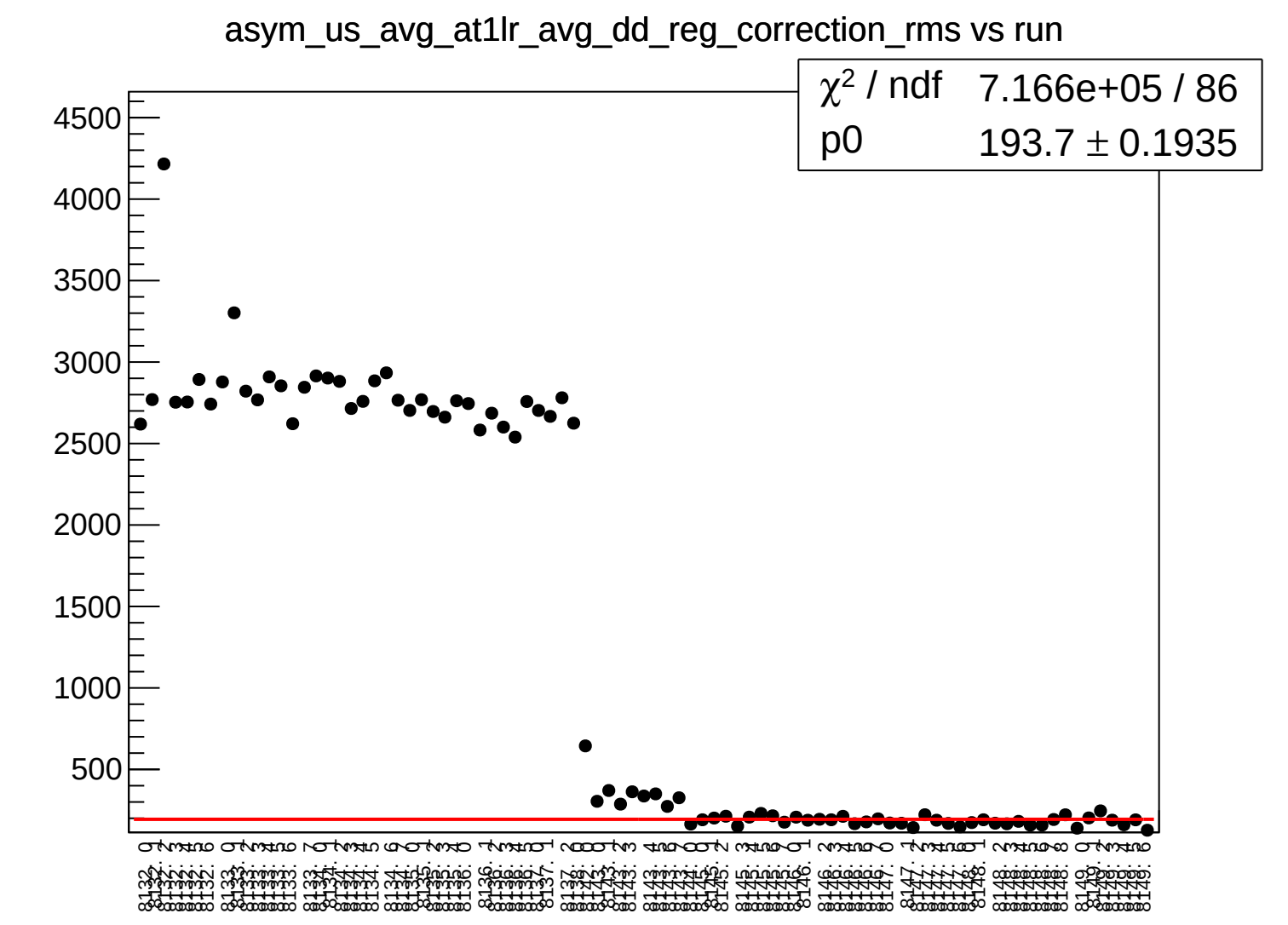

reg_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 91.87 / 86
p0 −807.3 ± 1910
pull
Entries 87
Mean −358.3
Std Dev 0

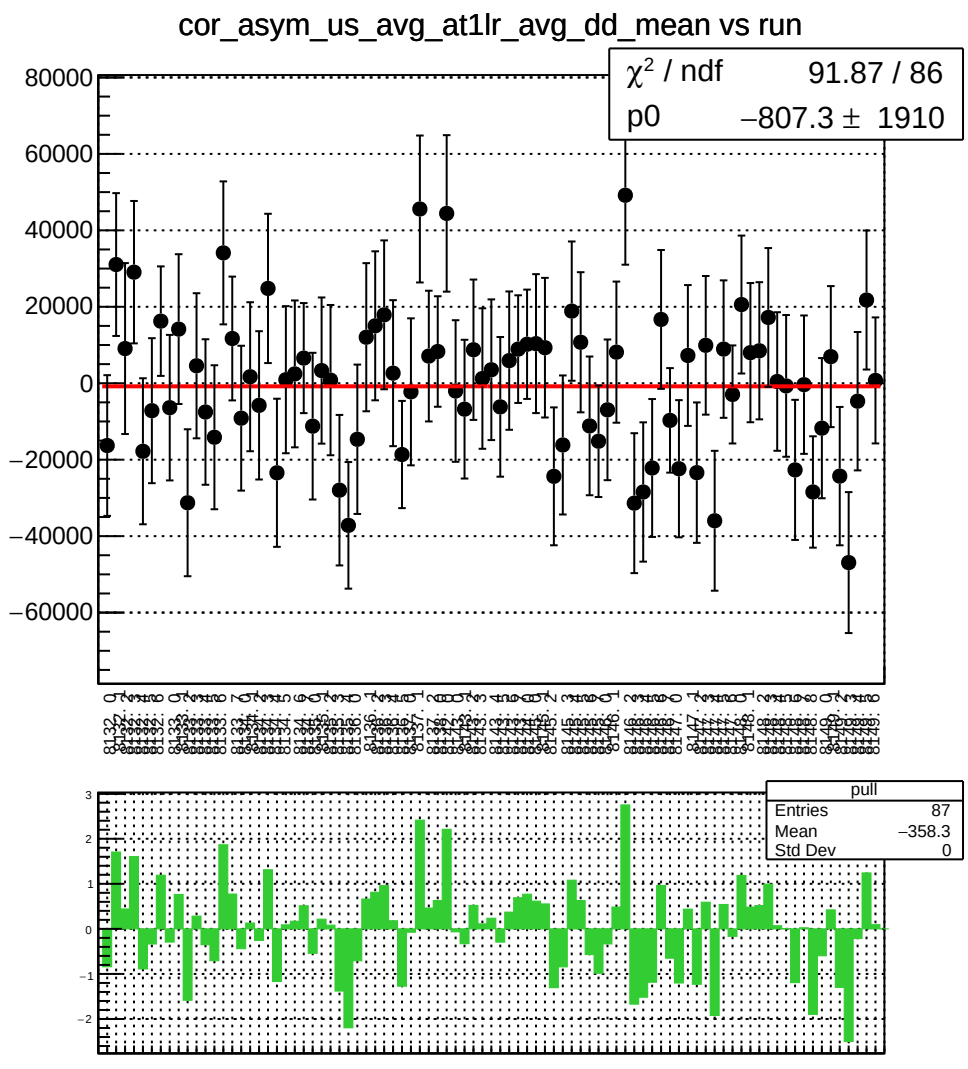

pull1D
Entries 87
Mean 0.009729
Std Dev 1.028

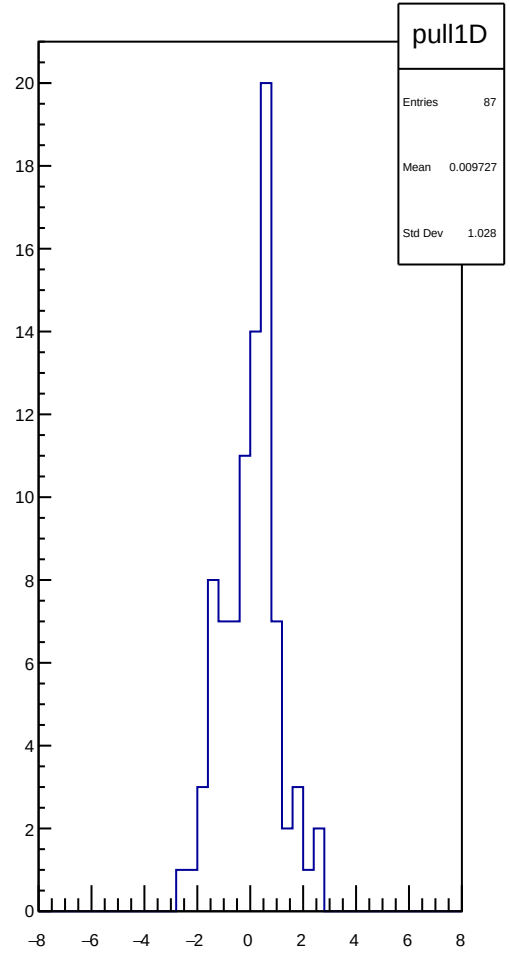

reg_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 1807 / 86
p0 1769 ± 1.35
2100
2000
1900
1800
1700

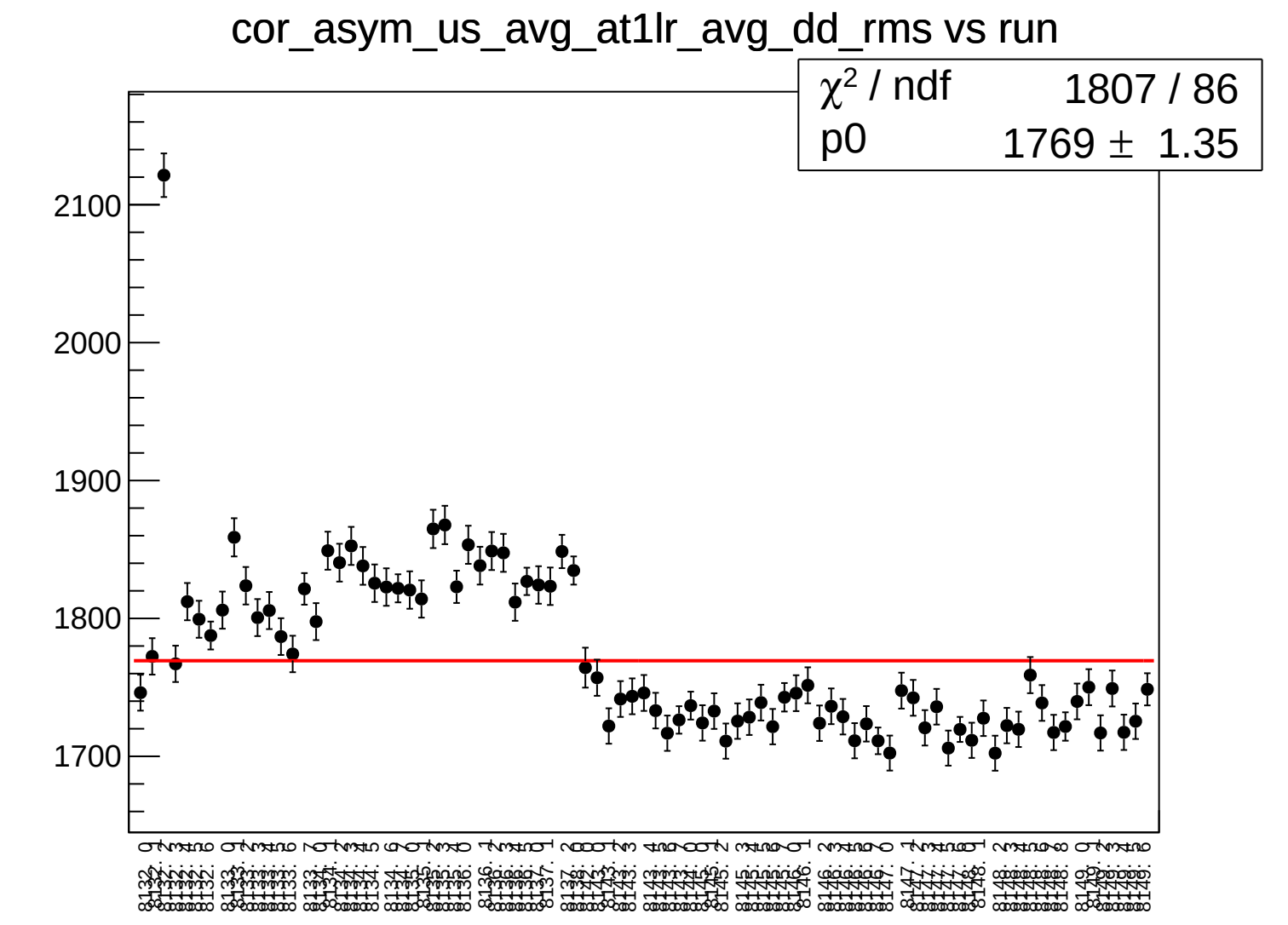

asym_us_avg_at1lr_avg_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 92.03 / 86
p0 349.4 ± 273.6
100
50
0
−50
−100
pull
Entries 87
Mean 10.47
Std Dev 25.48
3
2
1
0
−1
−2

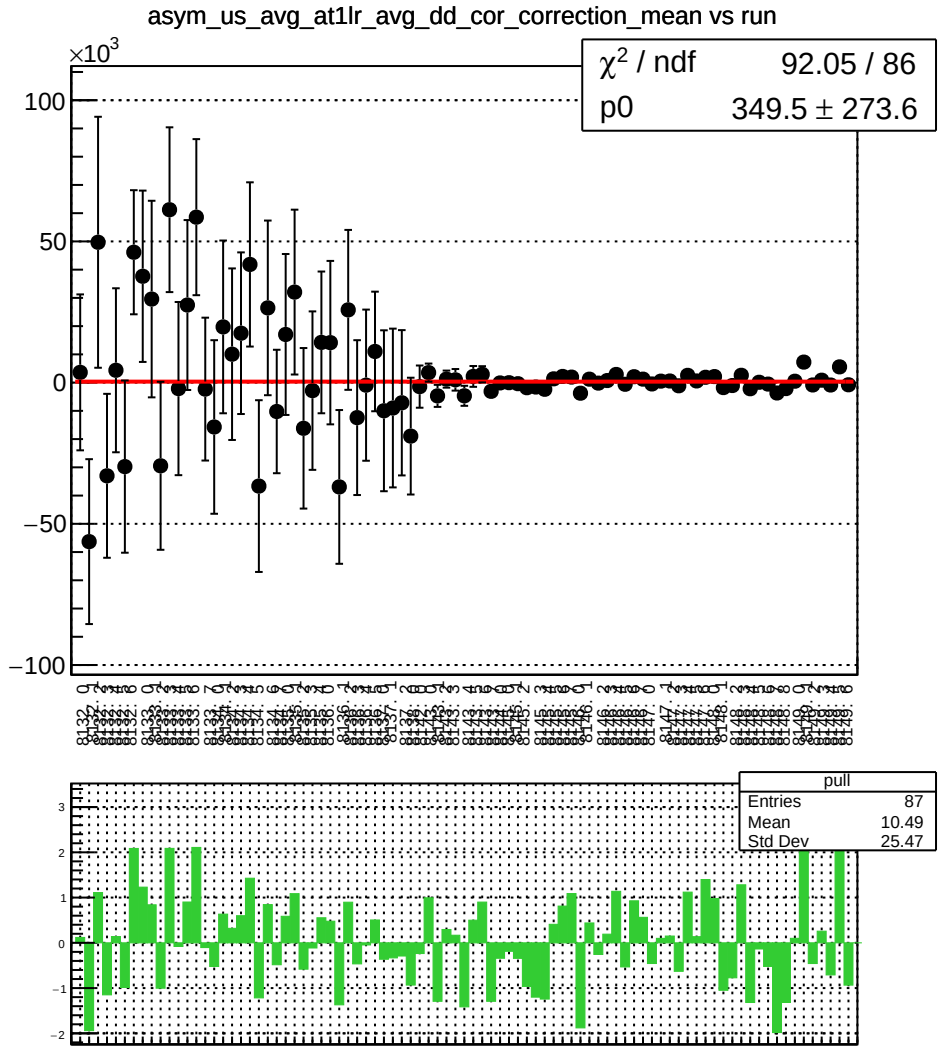

pull1D
Entries 87
Mean 0.05632
Std Dev 1.027
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

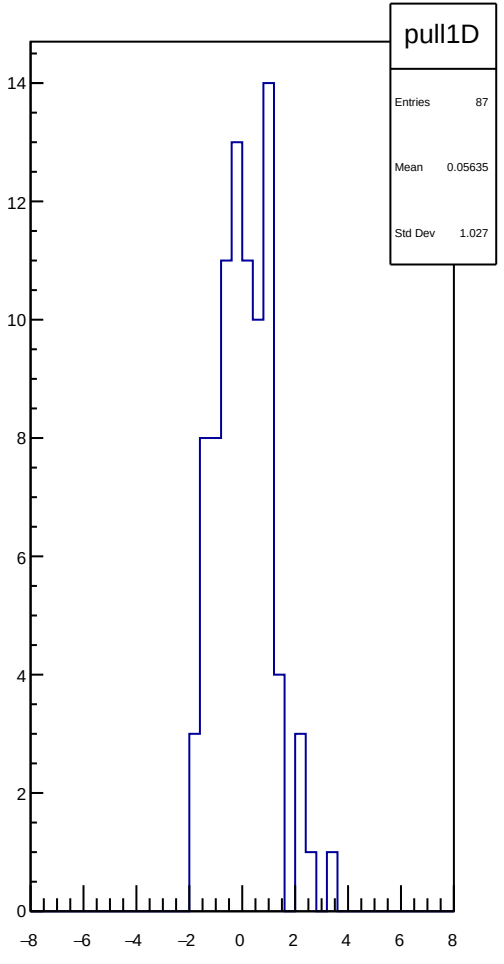

asym_us_avg_at1lr_avg_dd_reg_correction_rms vs run
χ² / ndf 7.166e+05 / 86
p0 193.7 ± 0.1935
4500
4000
3500
3000
2500
2000
1500
1000
500

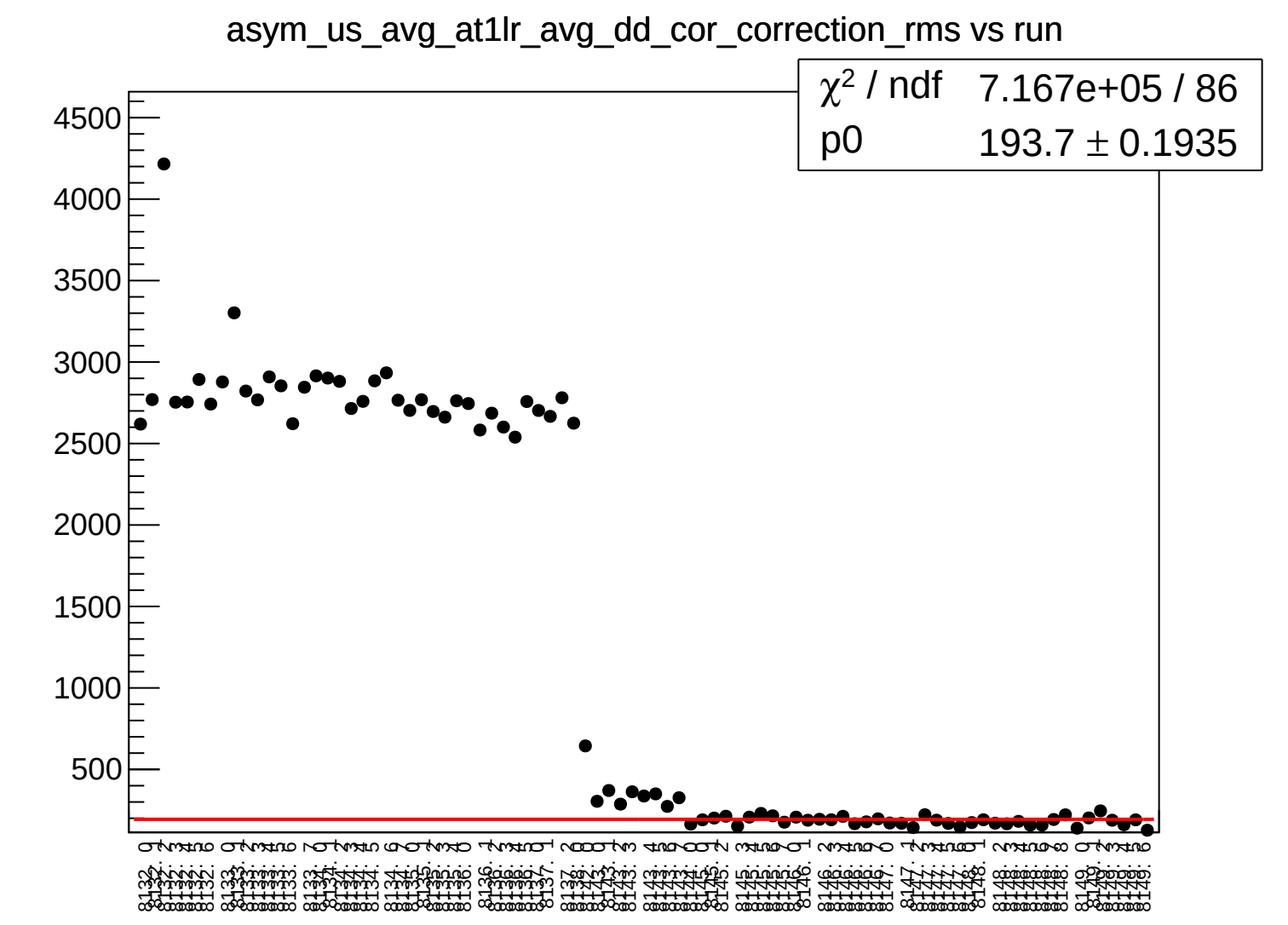

cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 91.87 / 86
p0 −807.3 ± 1910
pull
Entries 87
Mean −358.3
Std Dev 0

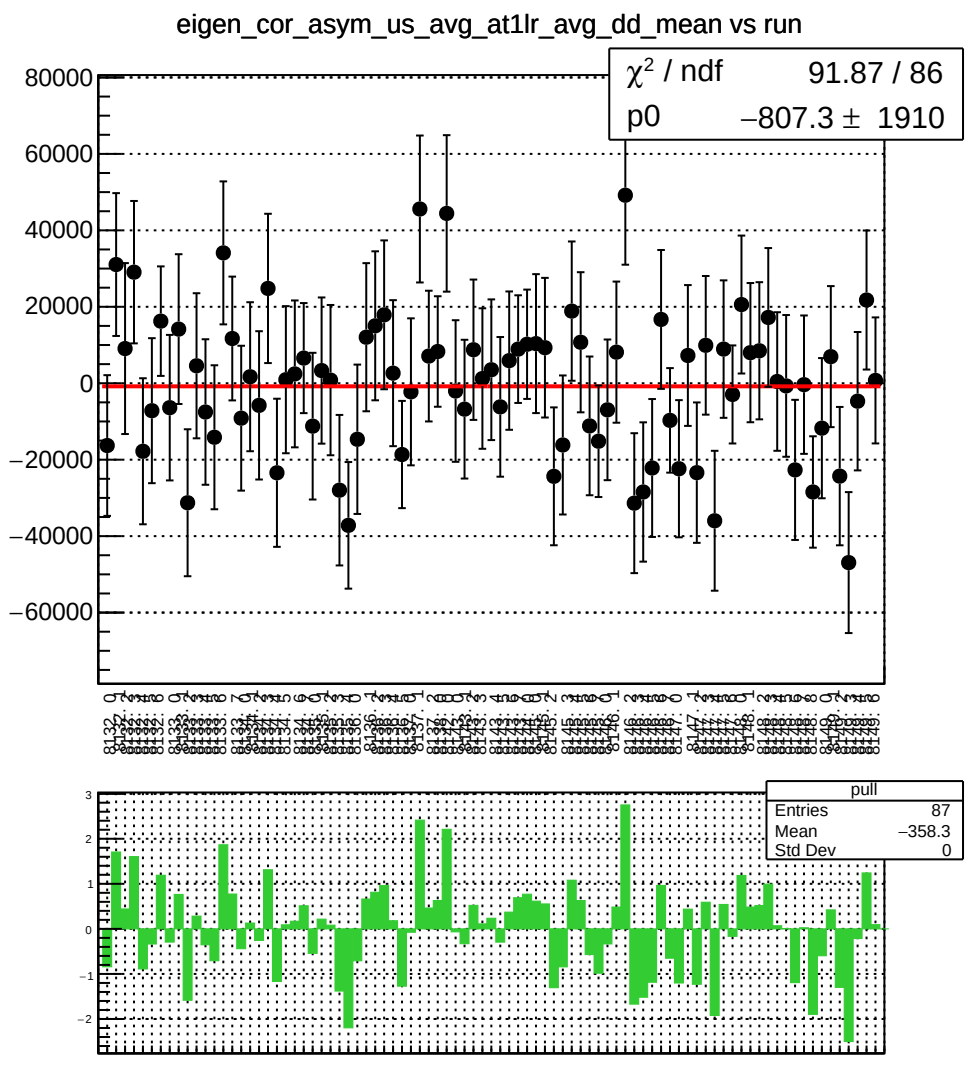

pull1D
Entries 87
Mean 0.009727
Std Dev 1.028

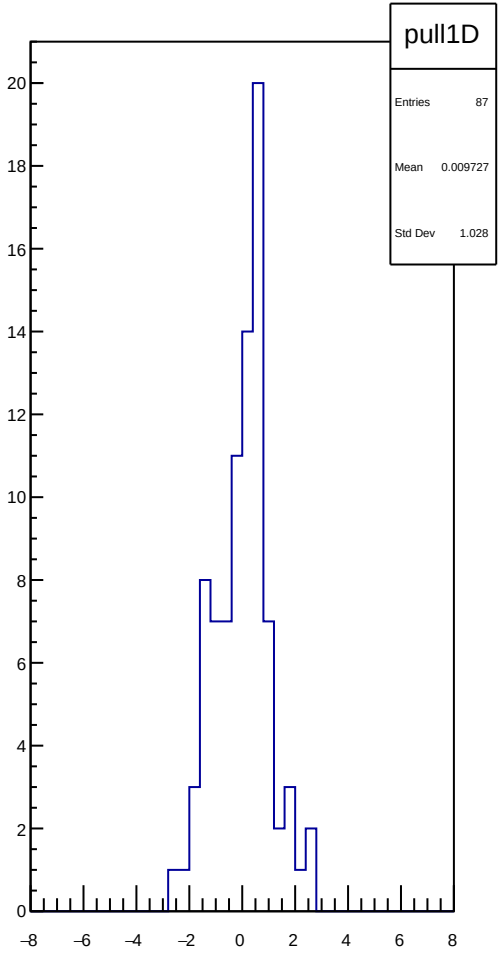

cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 1807 / 86
p0 1769 ± 1.35
2100
2000
1900
1800
1700

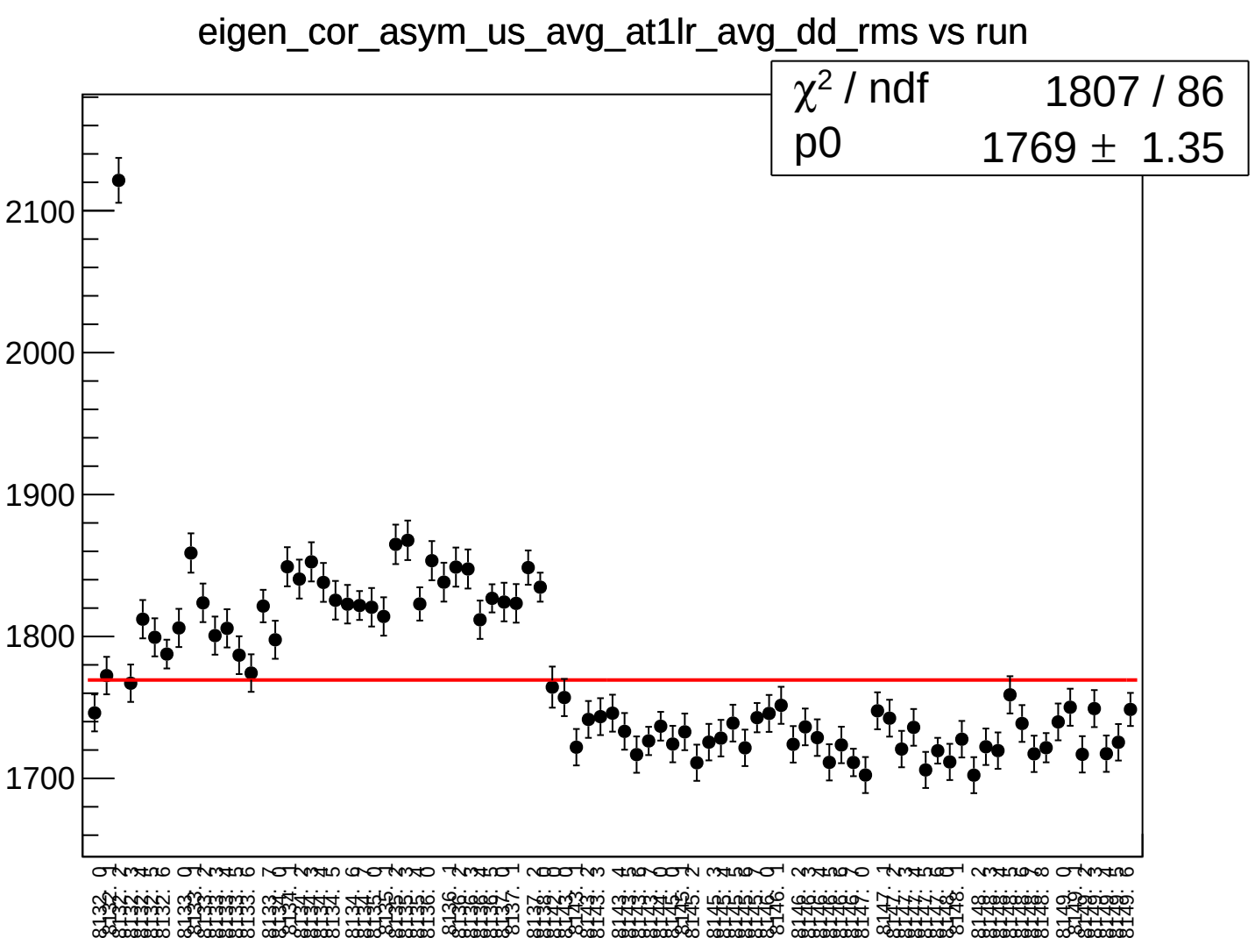

asym_us_avg_at1lr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 92.05 / 86
p0 349.5 ± 273.6
100
50
0
−50
−100
pull
Entries 87
Mean 10.49
Std Dev 25.47
3
2
1
0
−1
−2

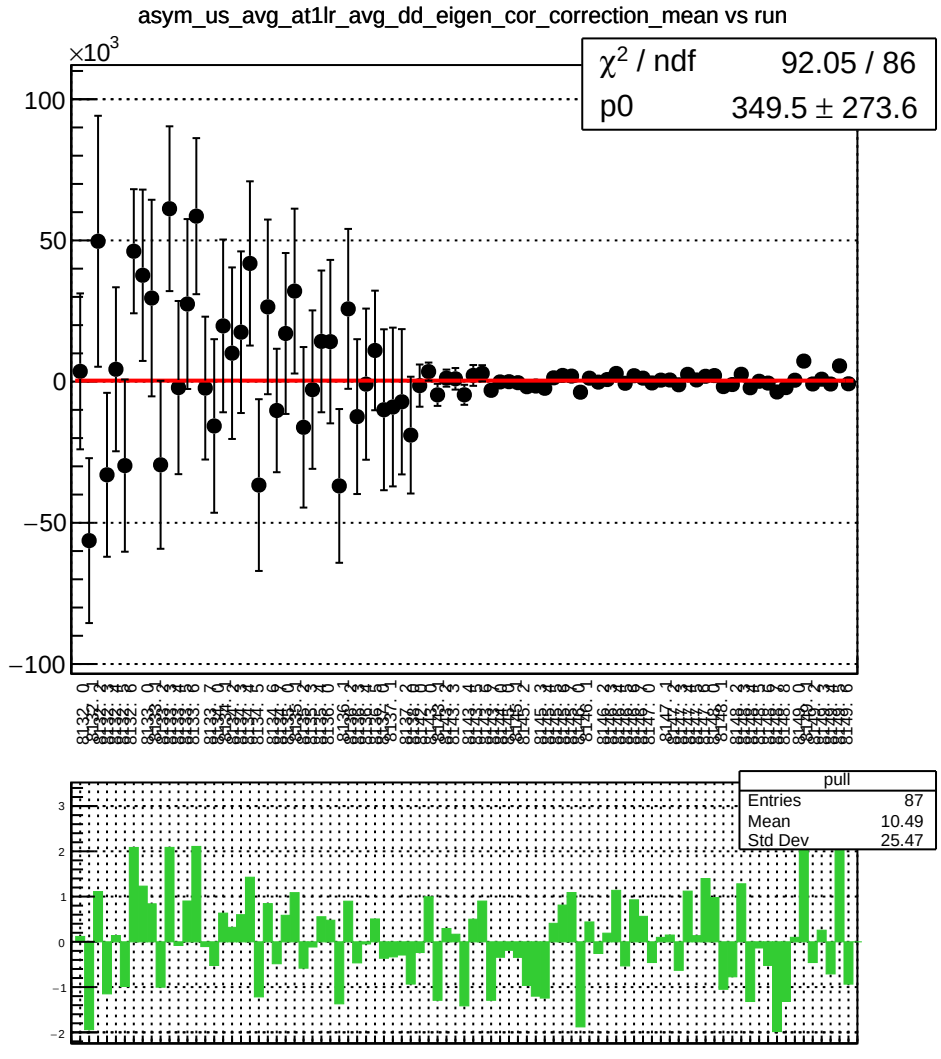

pull1D
Entries 87
Mean 0.05635
Std Dev 1.027
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

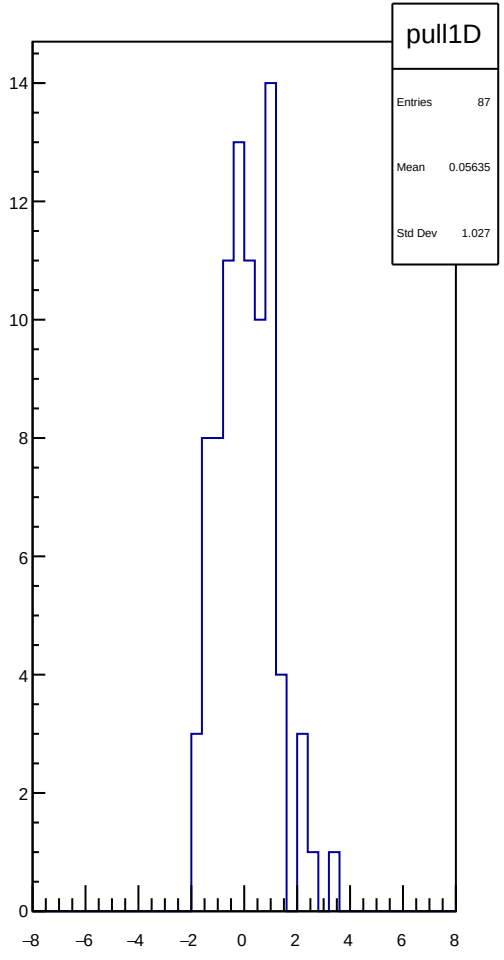

asym_us_avg_at1lr_avg_dd_cor_correction_rms vs run
χ² / ndf 7.167e+05 / 86
p0 193.7 ± 0.1935
4500
4000
3500
3000
2500
2000
1500
1000
500

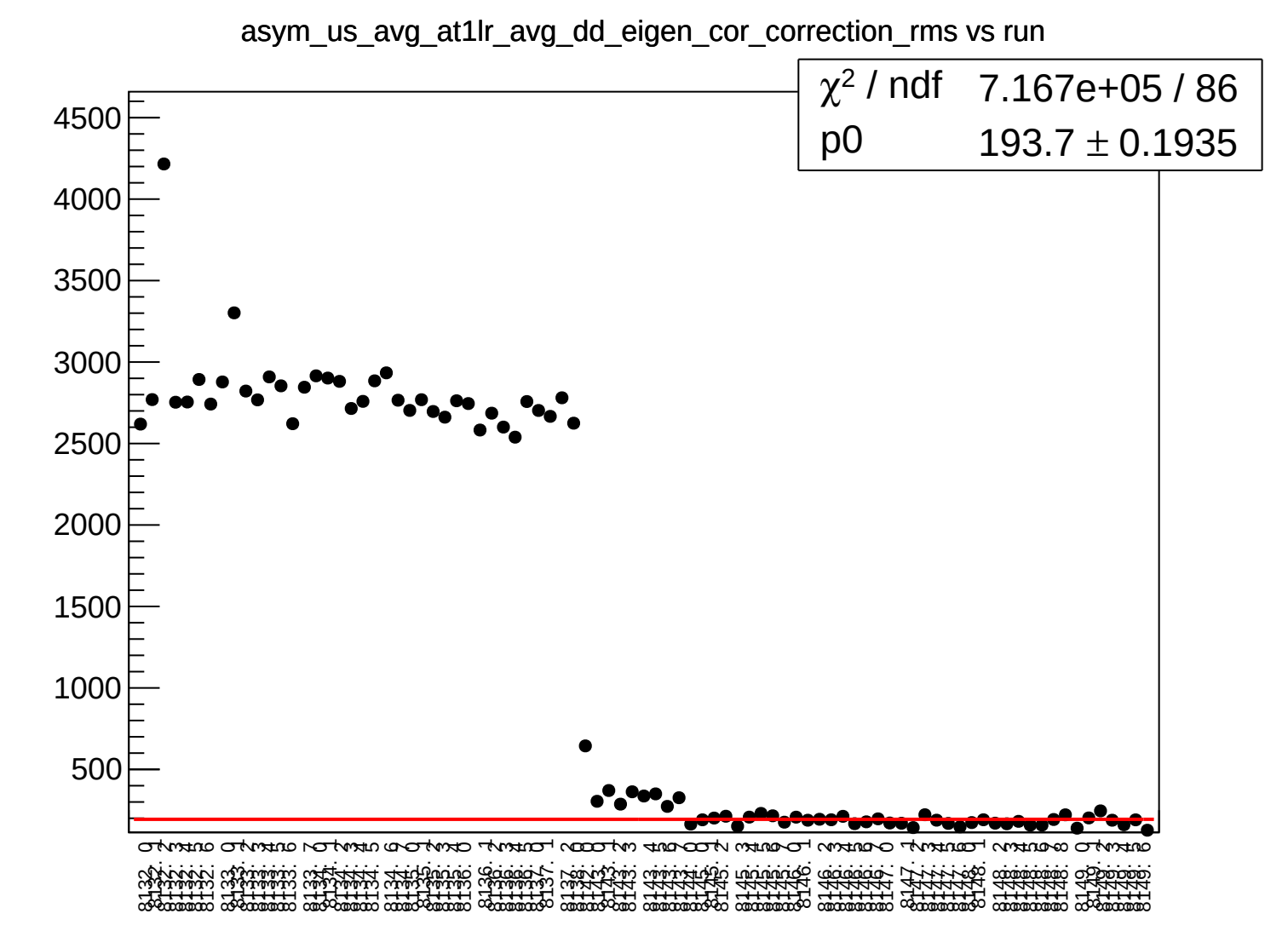

eigen_cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 91.87 / 86
p0 −807.3 ± 1910
pull
Entries 87
Mean −358.3
Std Dev 0

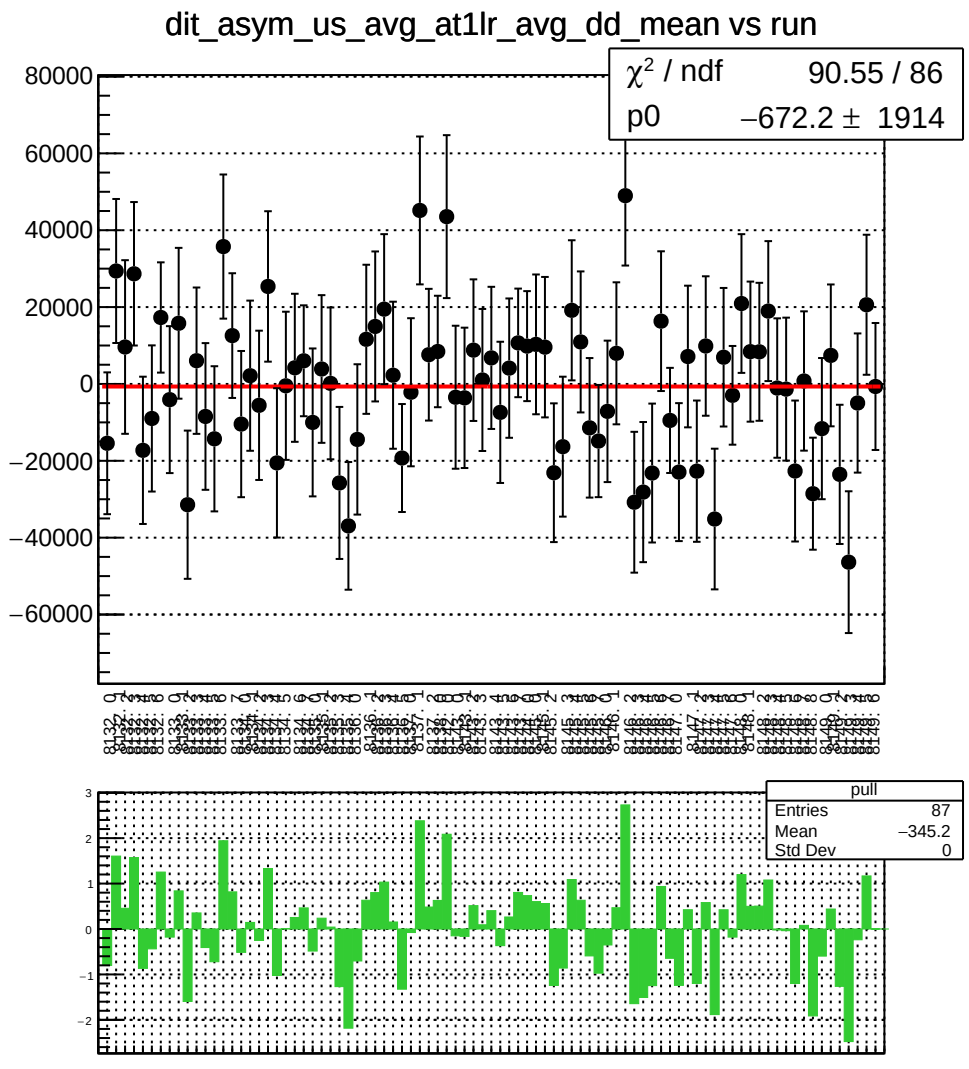

pull1D
Entries 87
Mean 0.009727
Std Dev 1.028

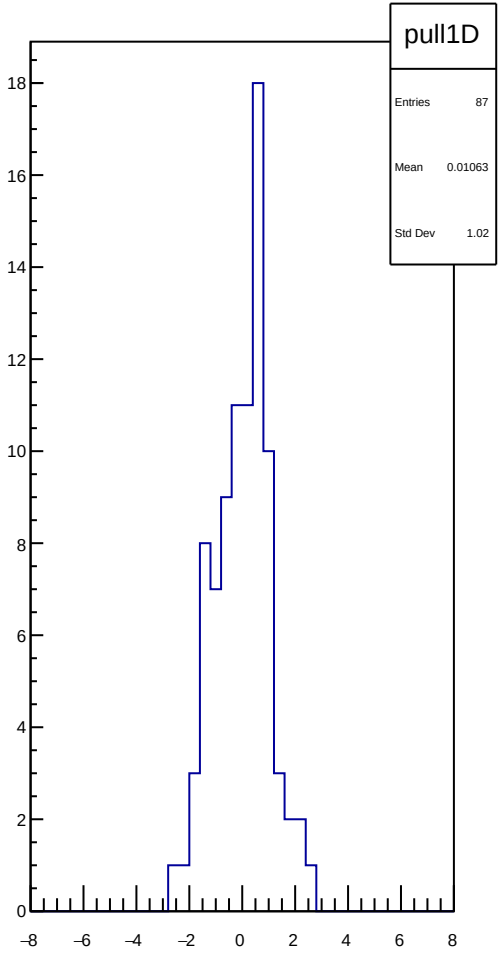

eigen_cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 1807 / 86
p0 1769 ± 1.35
2100
2000
1900
1800
1700

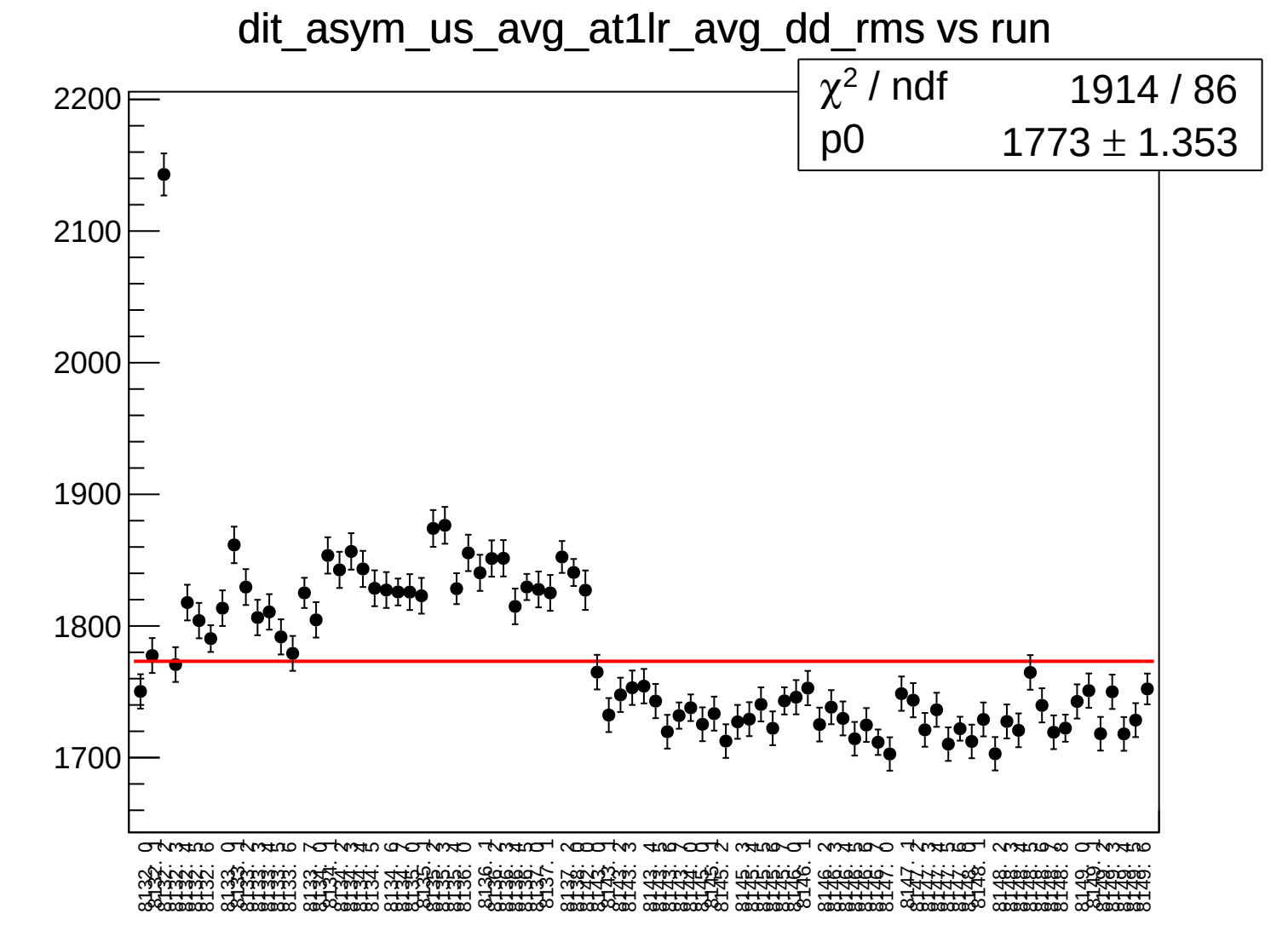

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 92.05 / 86
p0 349.5 ± 273.6
100
50
0
−50
−100
pull
Entries 87
Mean 10.49
Std Dev 25.47
3
2
1
0
−1
−2

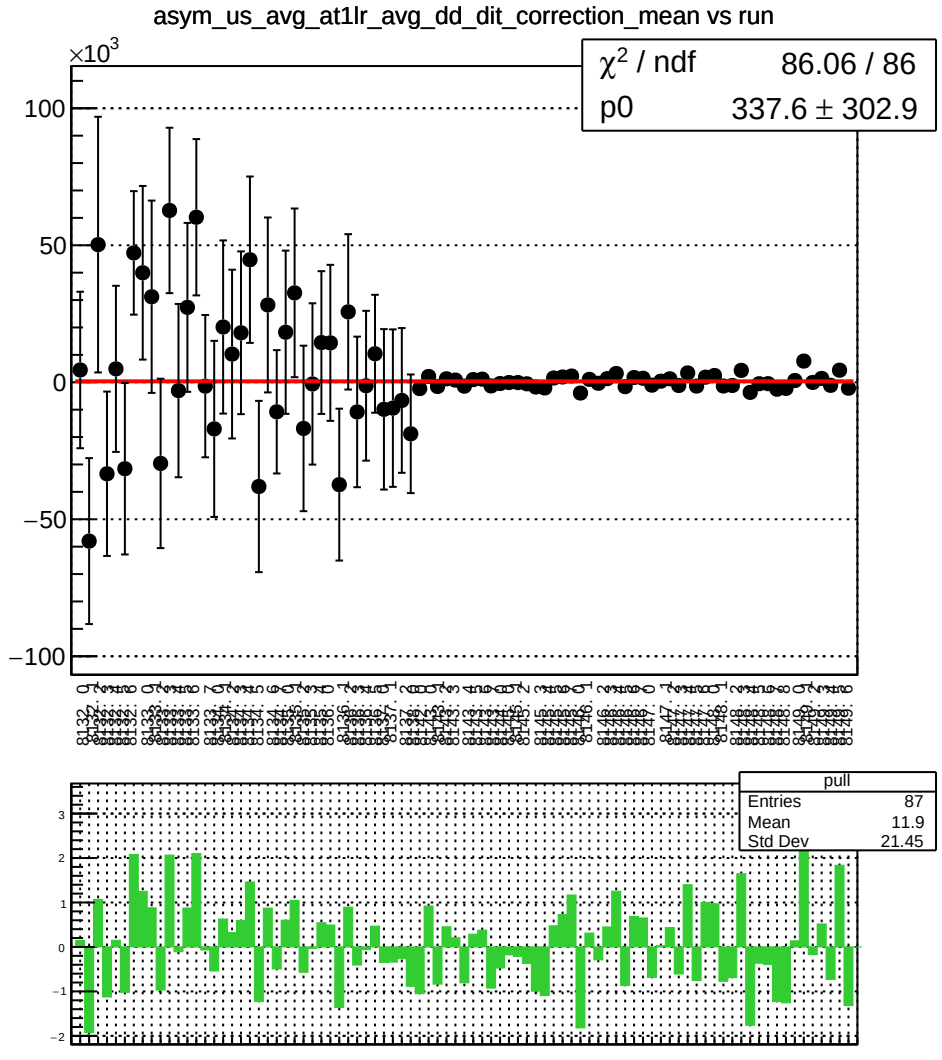

pull1D
Entries 87
Mean 0.05635
Std Dev 1.027
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

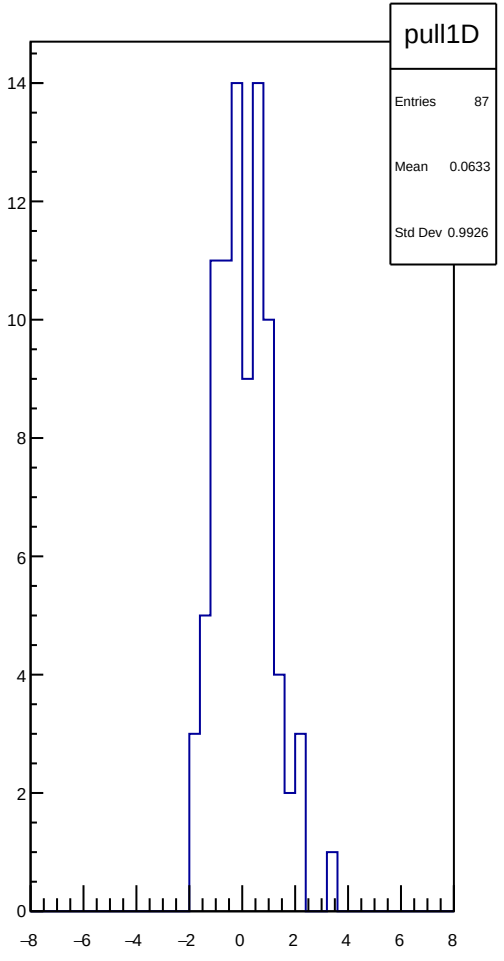

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 7.167e+05 / 86
p0 193.7 ± 0.1935
4500
4000
3500
3000
2500
2000
1500
1000
500

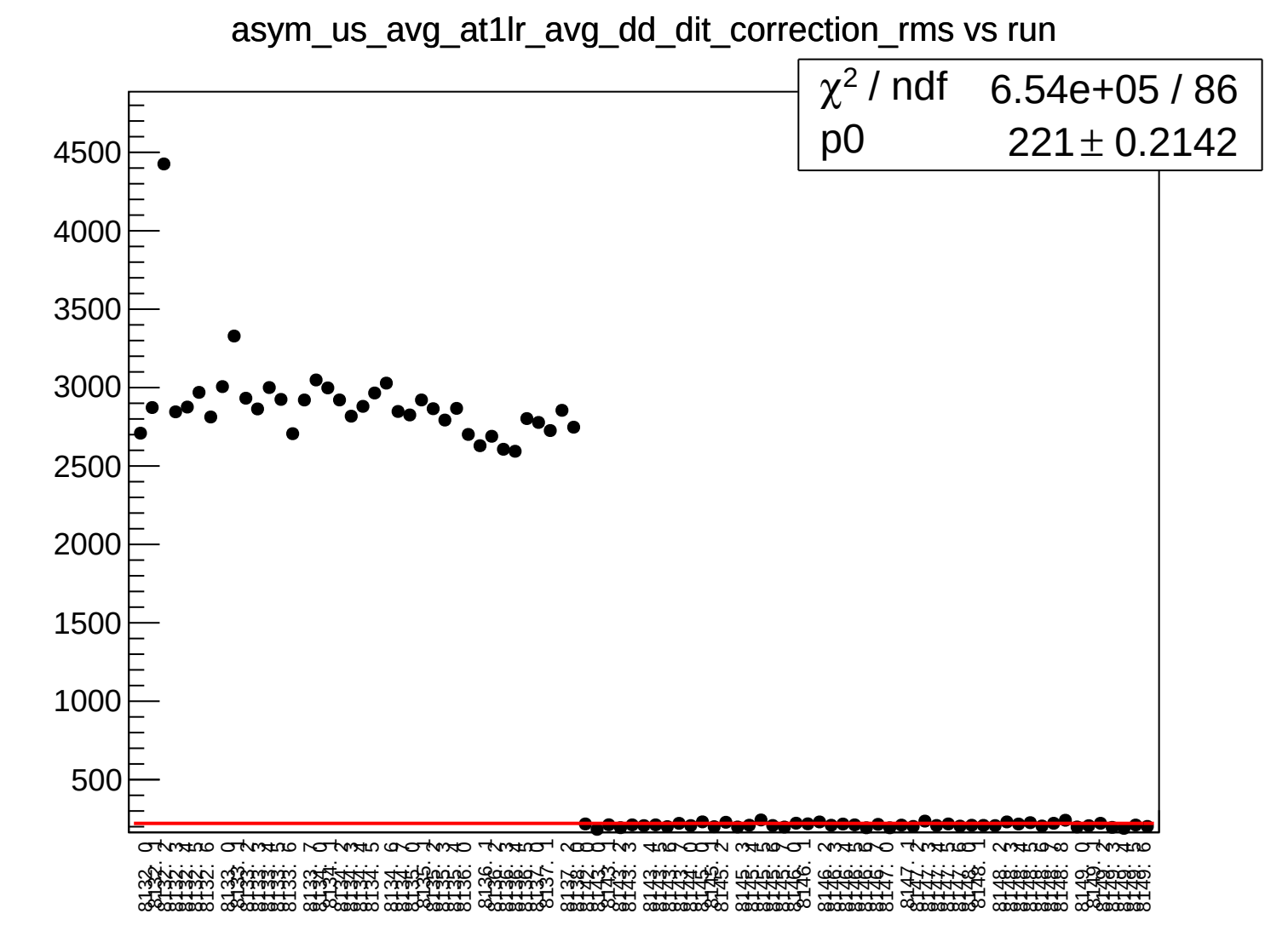

dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 90.55 / 86
p0 −672.2 ± 1914
pull
Entries 87
Mean −345.2
Std Dev 0

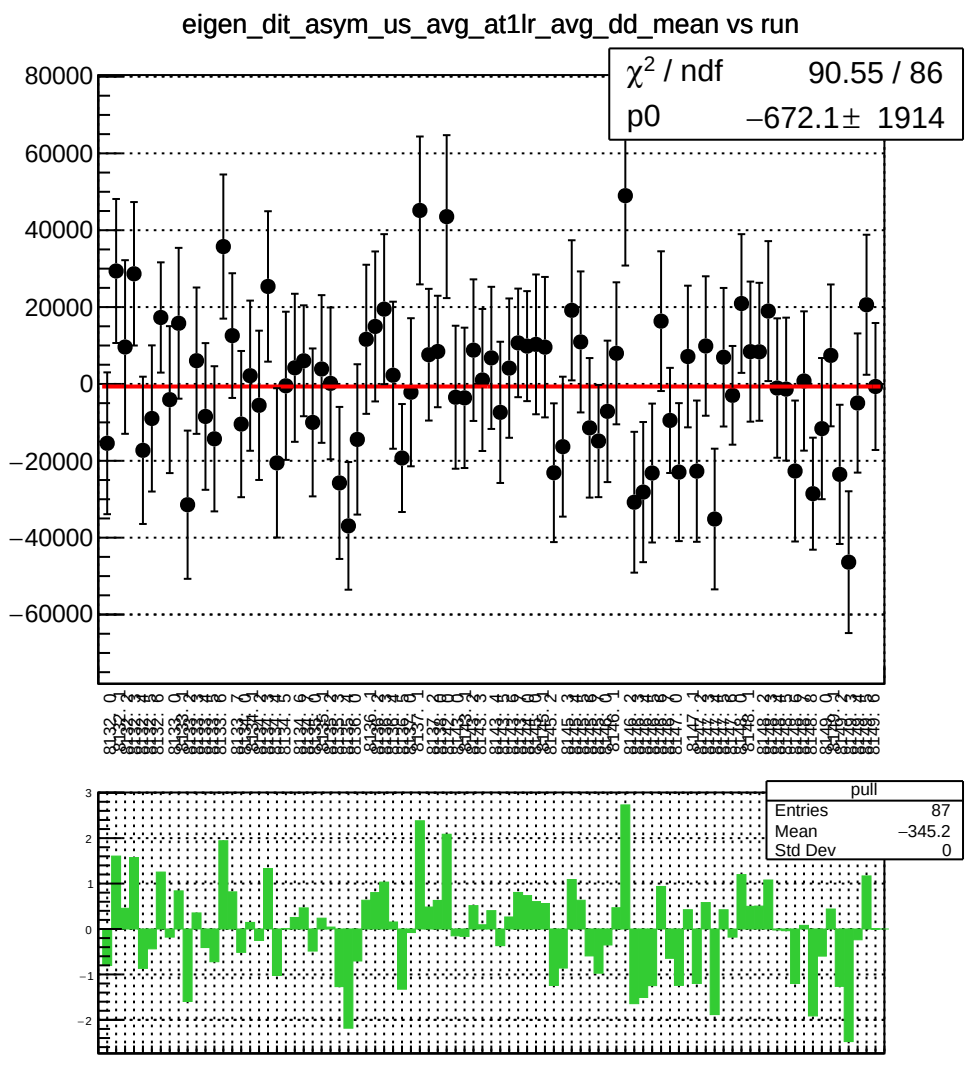

pull1D
Entries 87
Mean 0.01063
Std Dev 1.02

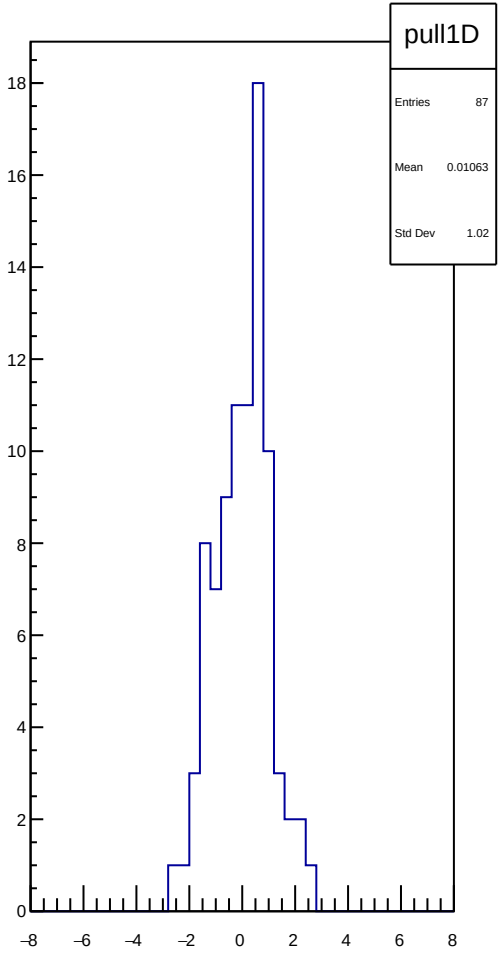

dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 1914 / 86
p0 1773 ± 1.353
2200
2100
2000
1900
1800
1700

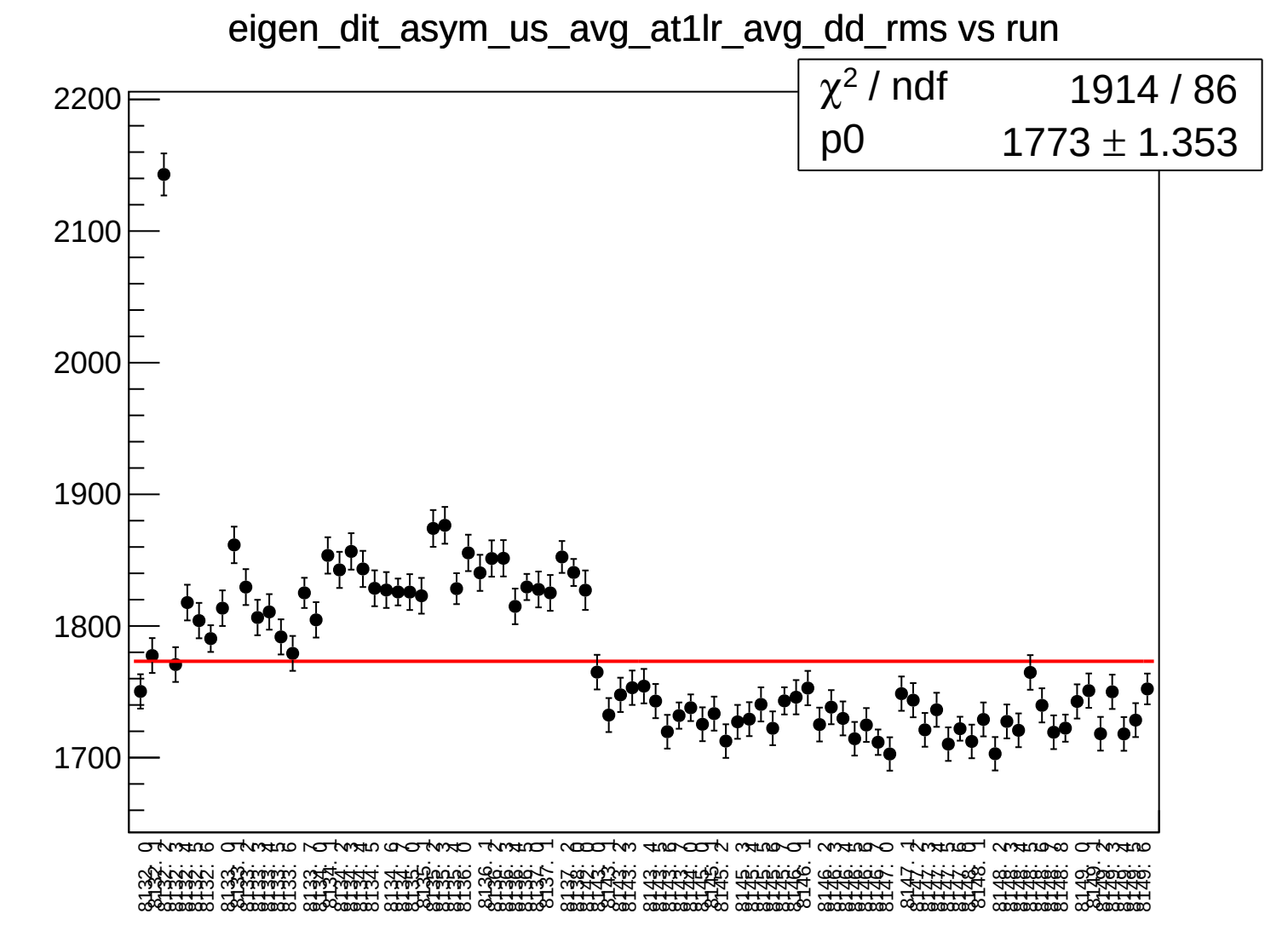

asym_us_avg_at1lr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 86.06 / 86
p0 337.6 ± 302.9
100
50
0
−50
−100
pull
Entries 87
Mean 11.9
Std Dev 21.45
3
2
1
0
−1
−2

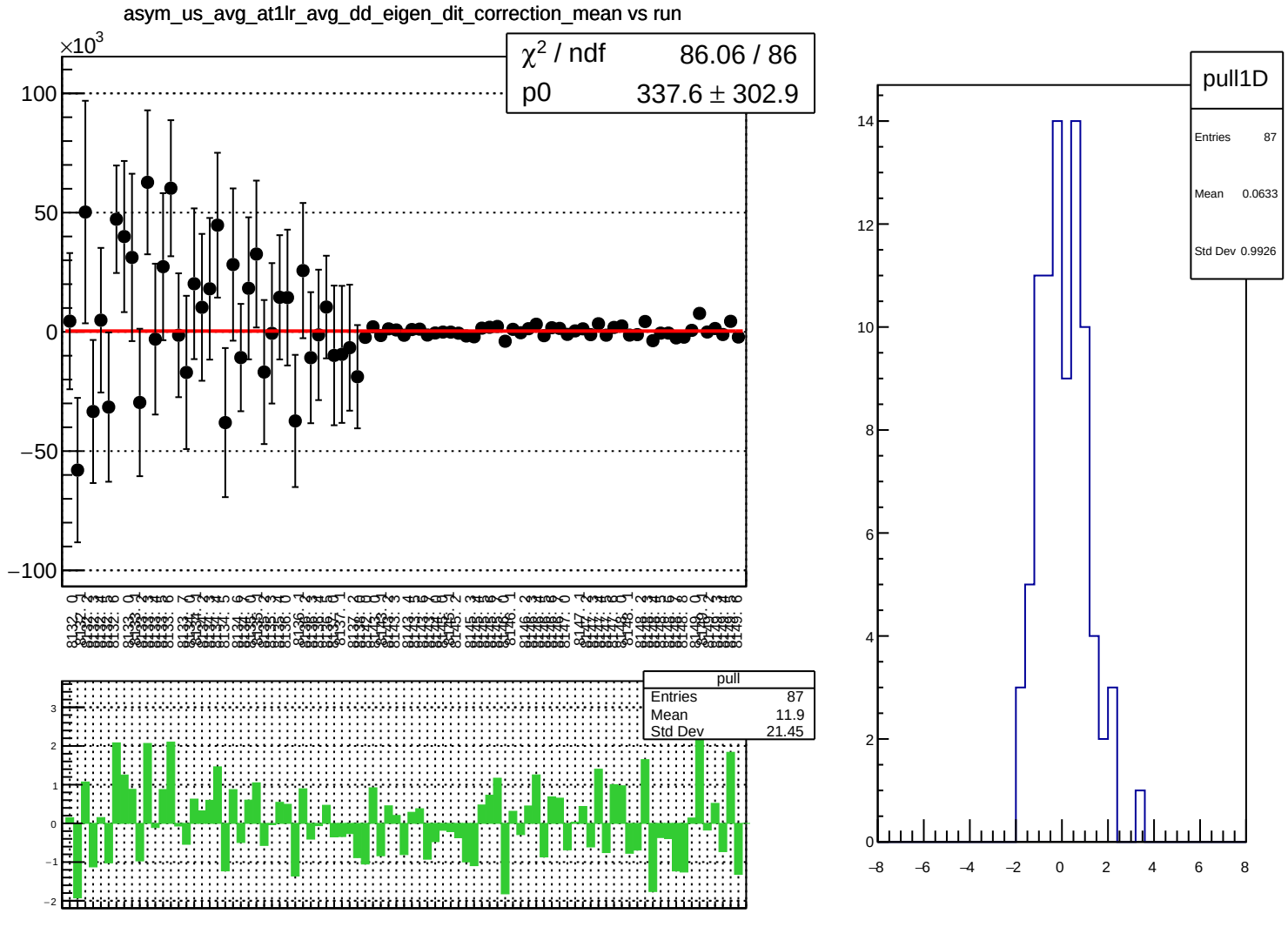

pull1D
Entries 87
Mean 0.0633
Std Dev 0.9926
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

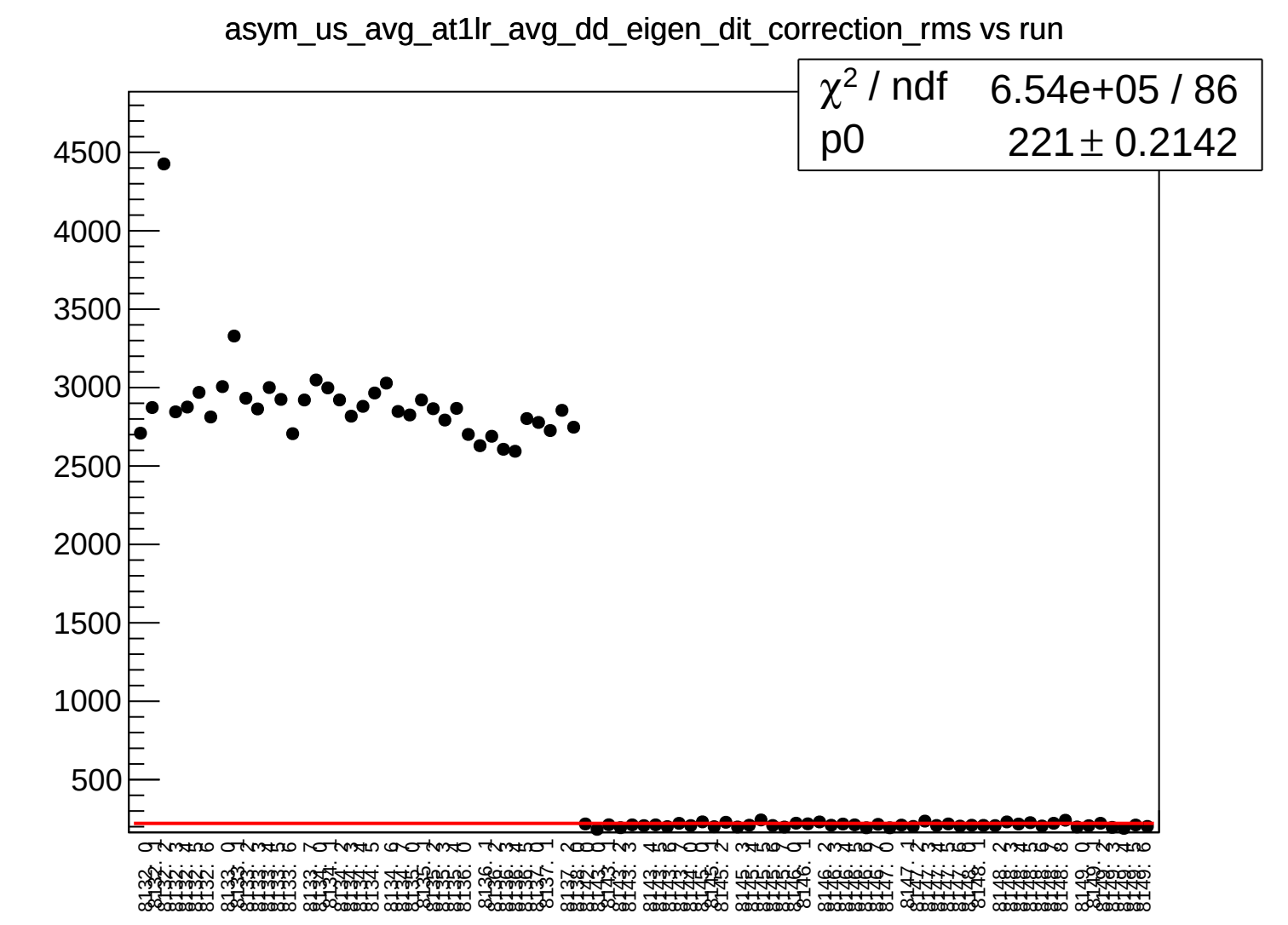

asym_us_avg_at1lr_avg_dd_dit_correction_rms vs run
χ² / ndf 6.54e+05 / 86
p0 221 ± 0.2142
4500
4000
3500
3000
2500
2000
1500
1000
500

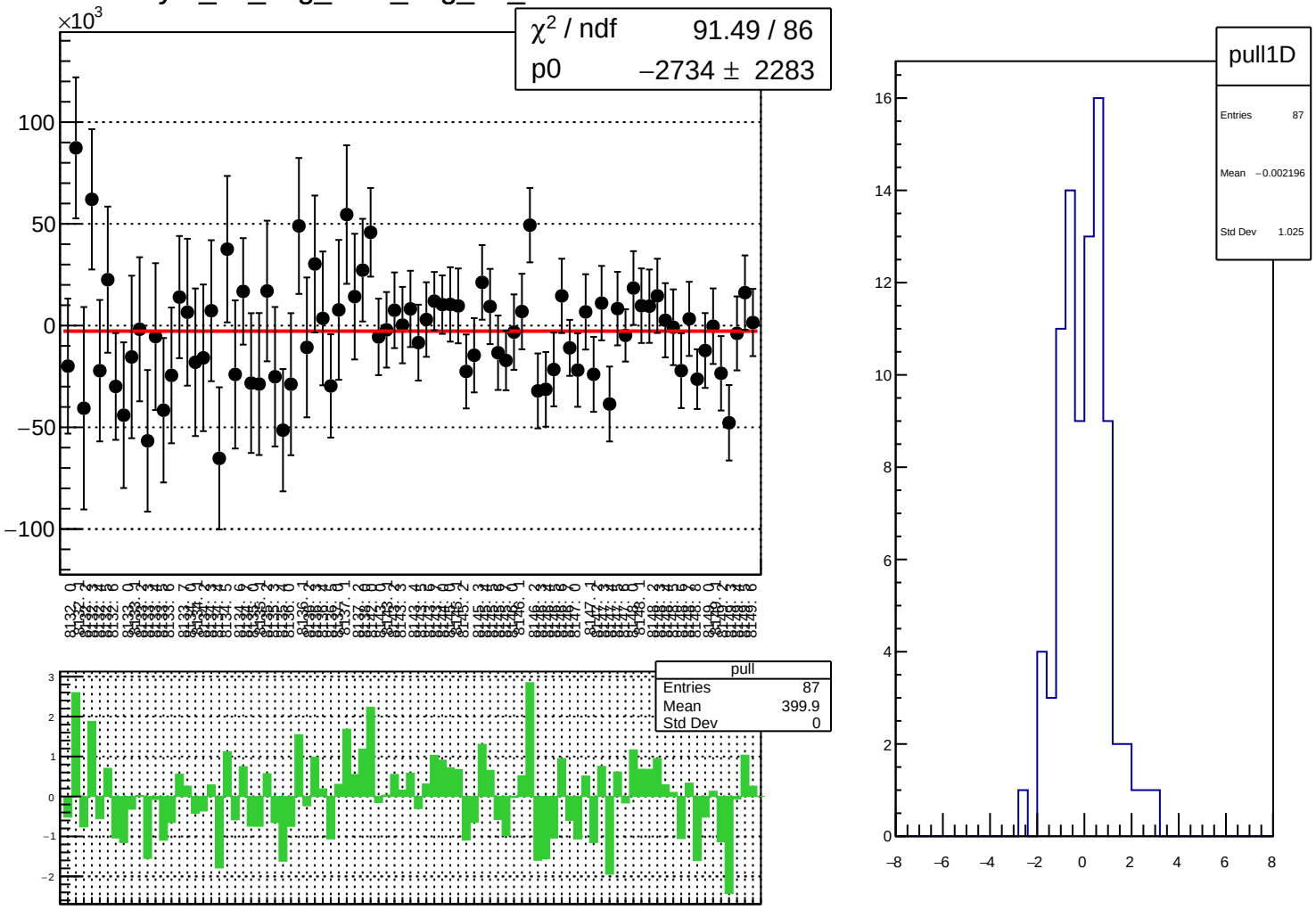

eigen_dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 90.55 / 86
p0 −672.1± 1914
pull
Entries 87
Mean −345.2
Std Dev 0

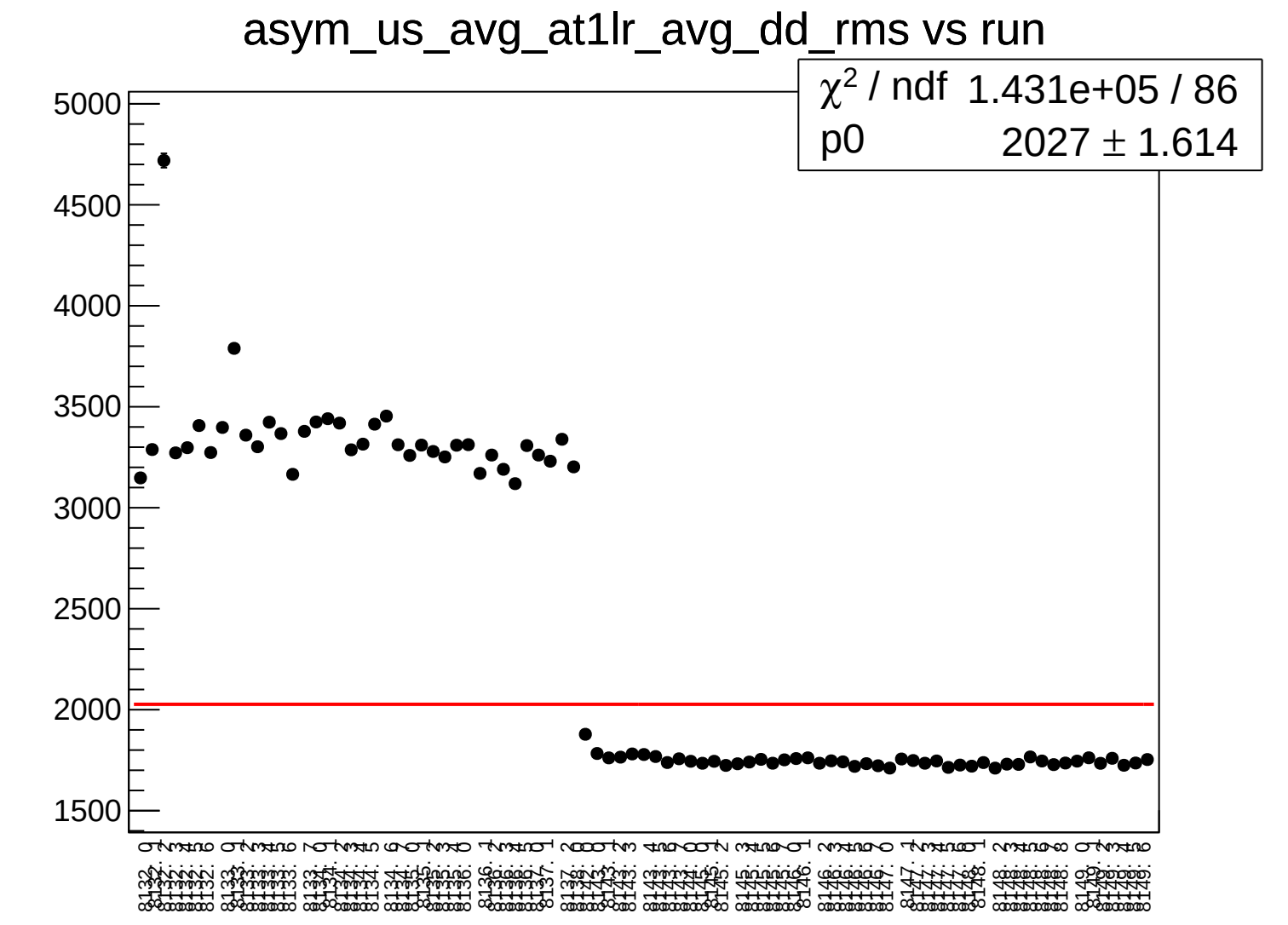

pull1D
Entries 87
Mean 0.01063
Std Dev 1.02

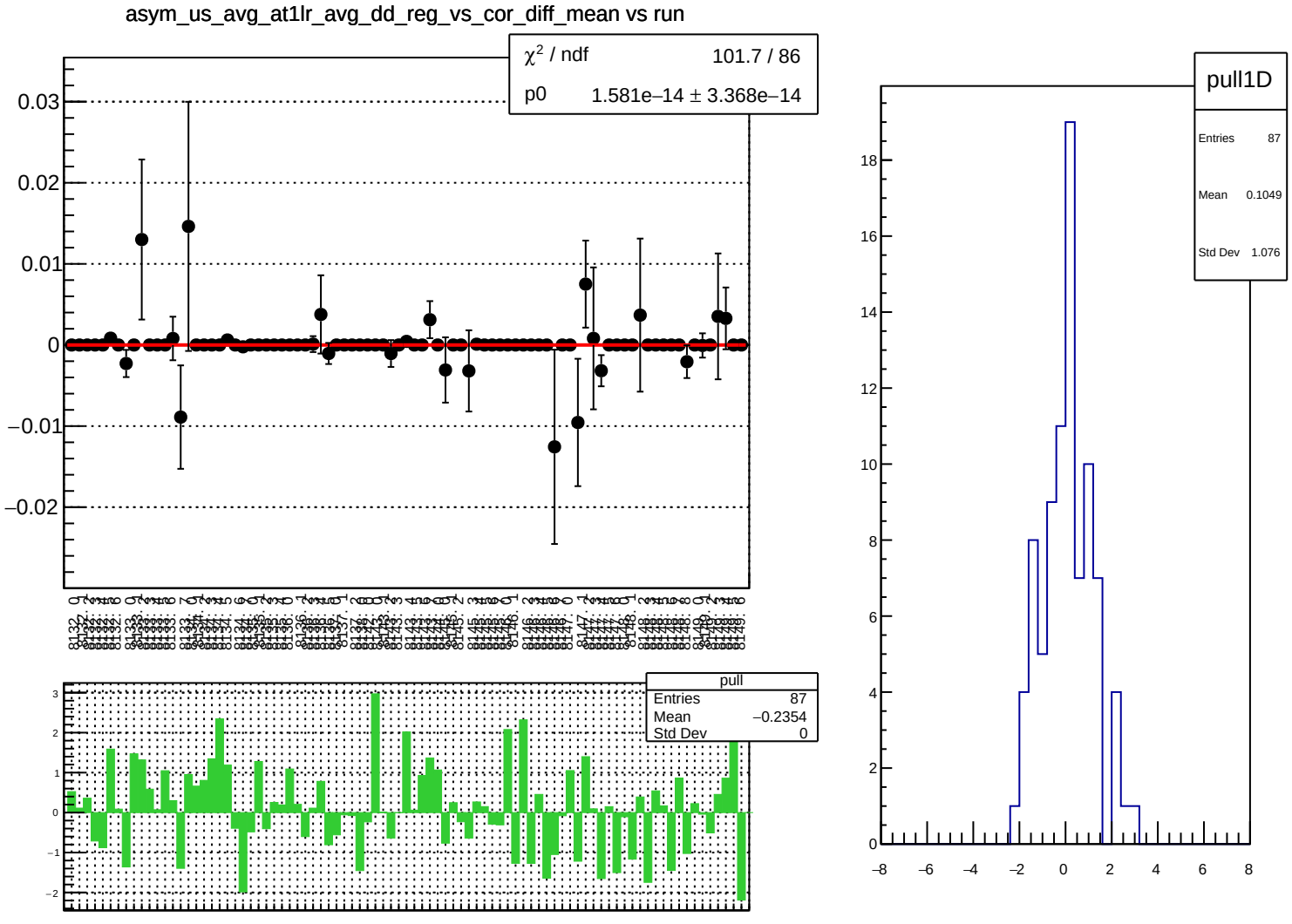

eigen_dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 1914 / 86
p0 1773 ± 1.353
2200
2100
2000
1900
1800
1700

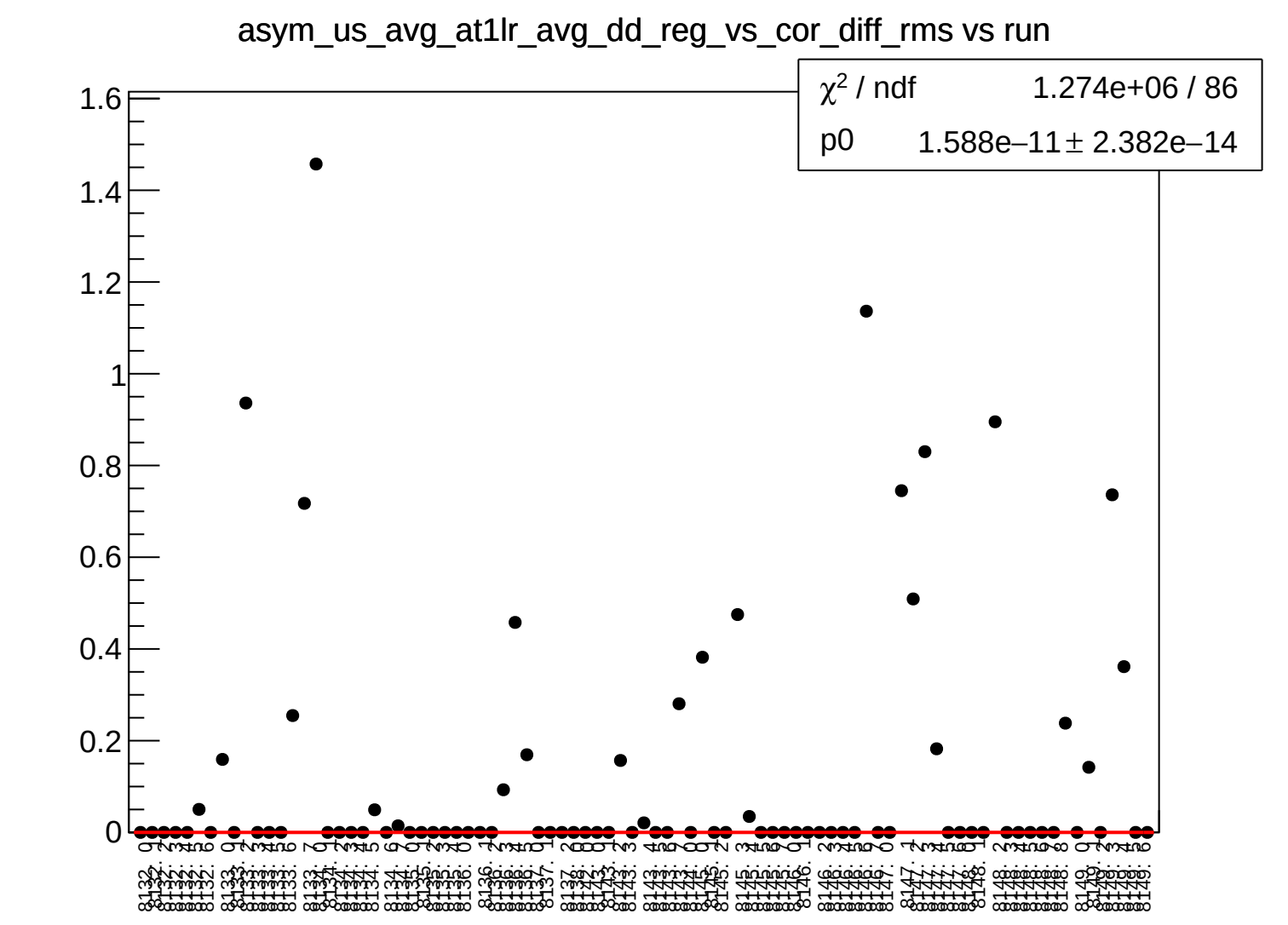

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 86.06 / 86
p0 337.6 ± 302.9
100
50
0
−50
−100
pull
Entries 87
Mean 11.9
Std Dev 21.45
3
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.0633
Std Dev 0.9926
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

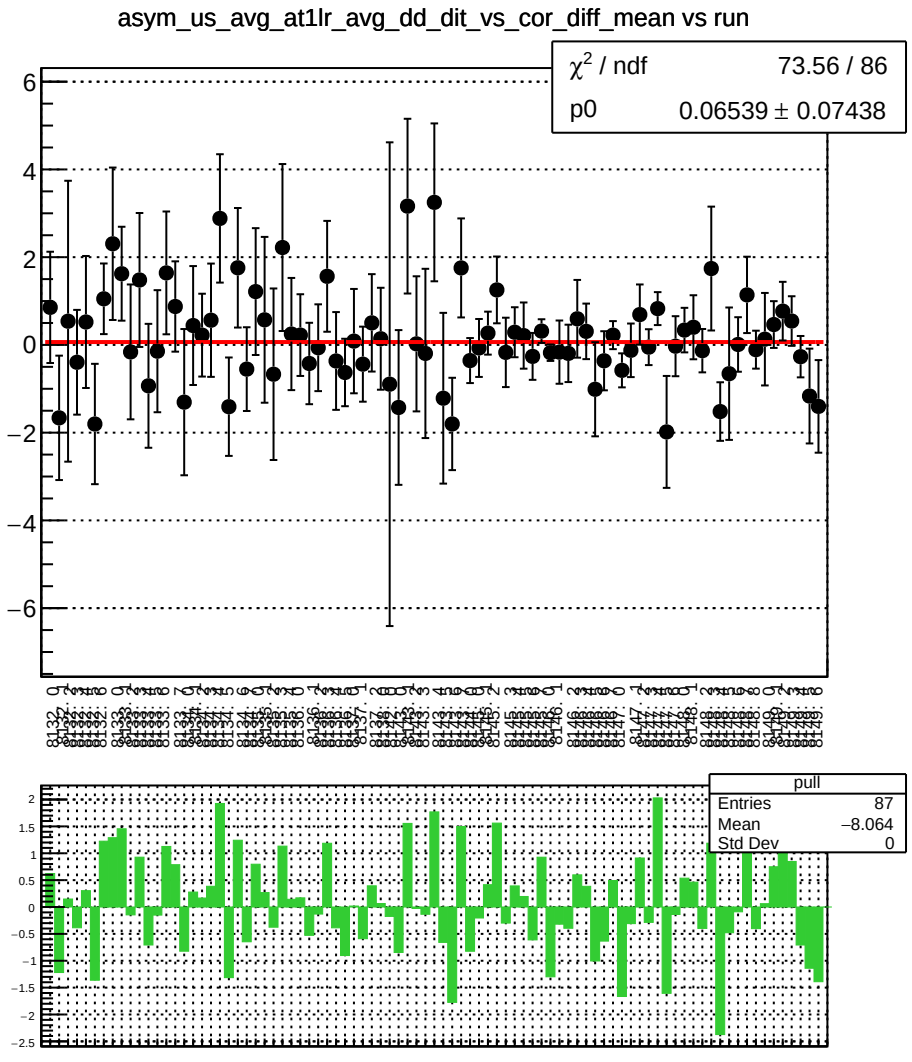

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 6.54e+05 / 86
p0 221 ± 0.2142
4500
4000
3500
3000
2500
2000
1500
1000
500

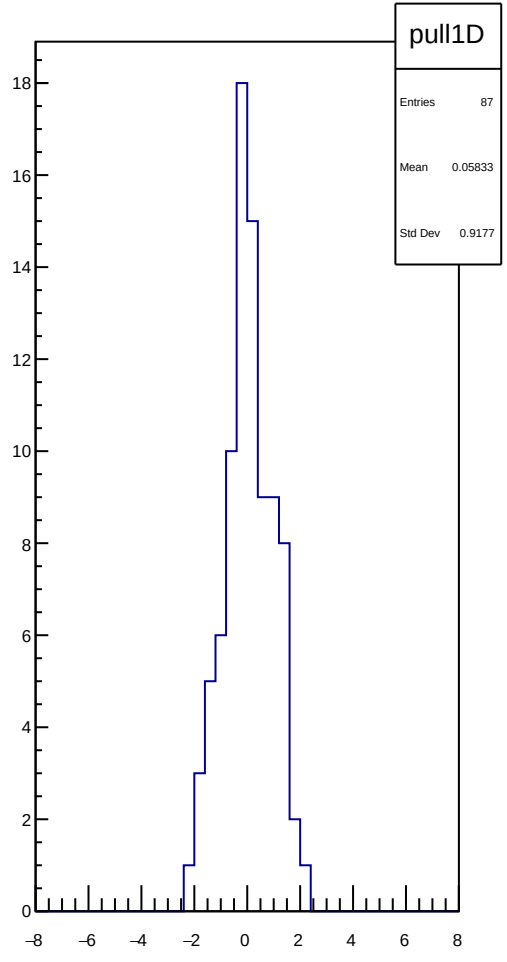

asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 91.49 / 86
p0 −2734 ± 2283
×10³
100
50
0
−50
−100
pull
Entries 87
Mean 399.9
Std Dev 0
pull1D
Entries 87
Mean −0.002196
Std Dev 1.025

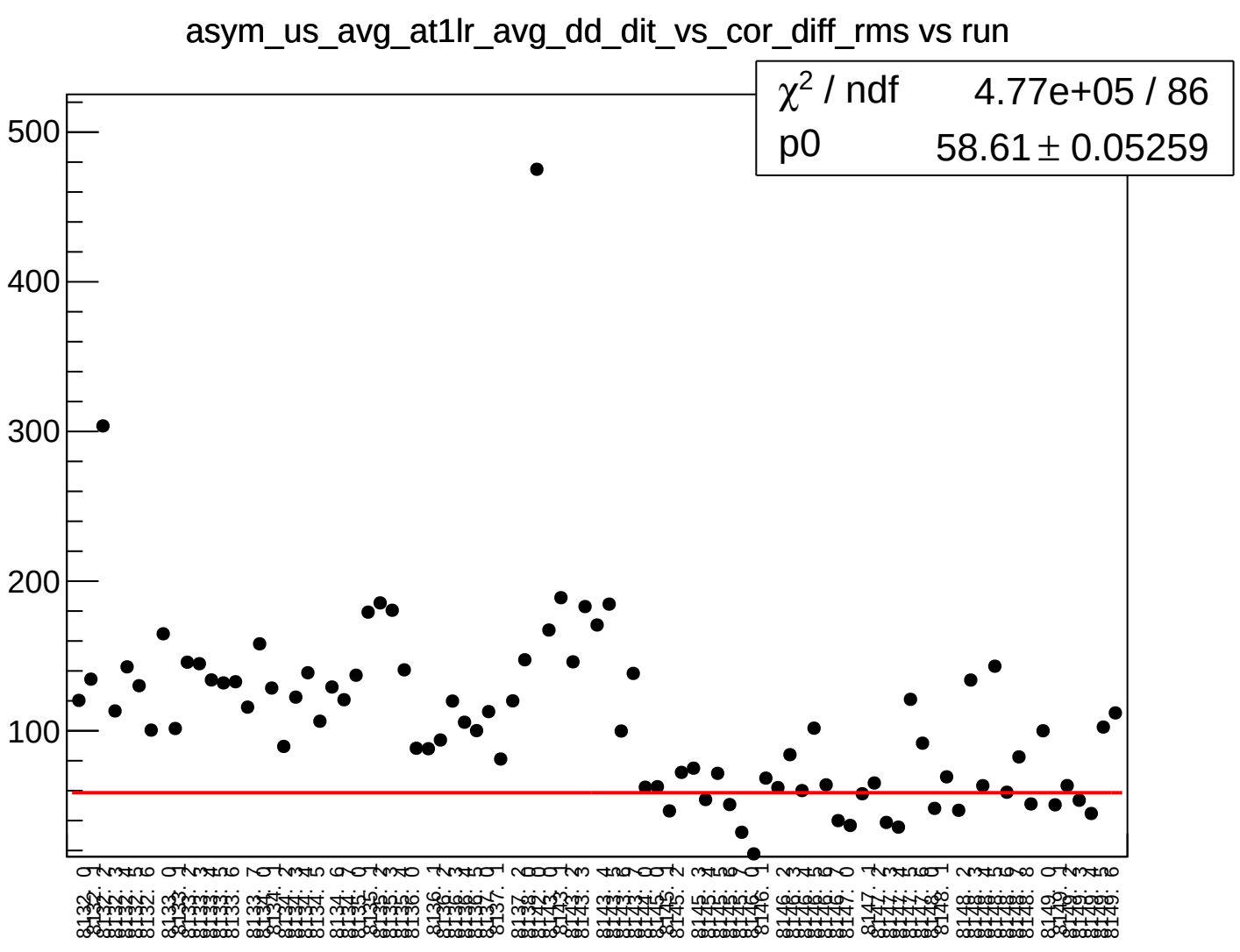

asym_us_avg_at1lr_avg_dd_rms vs run
χ^2 / ndf 1.431e+05 / 86
p0 2027 ± 1.614
5000
4500
4000
3500
3000
2500
2000
1500

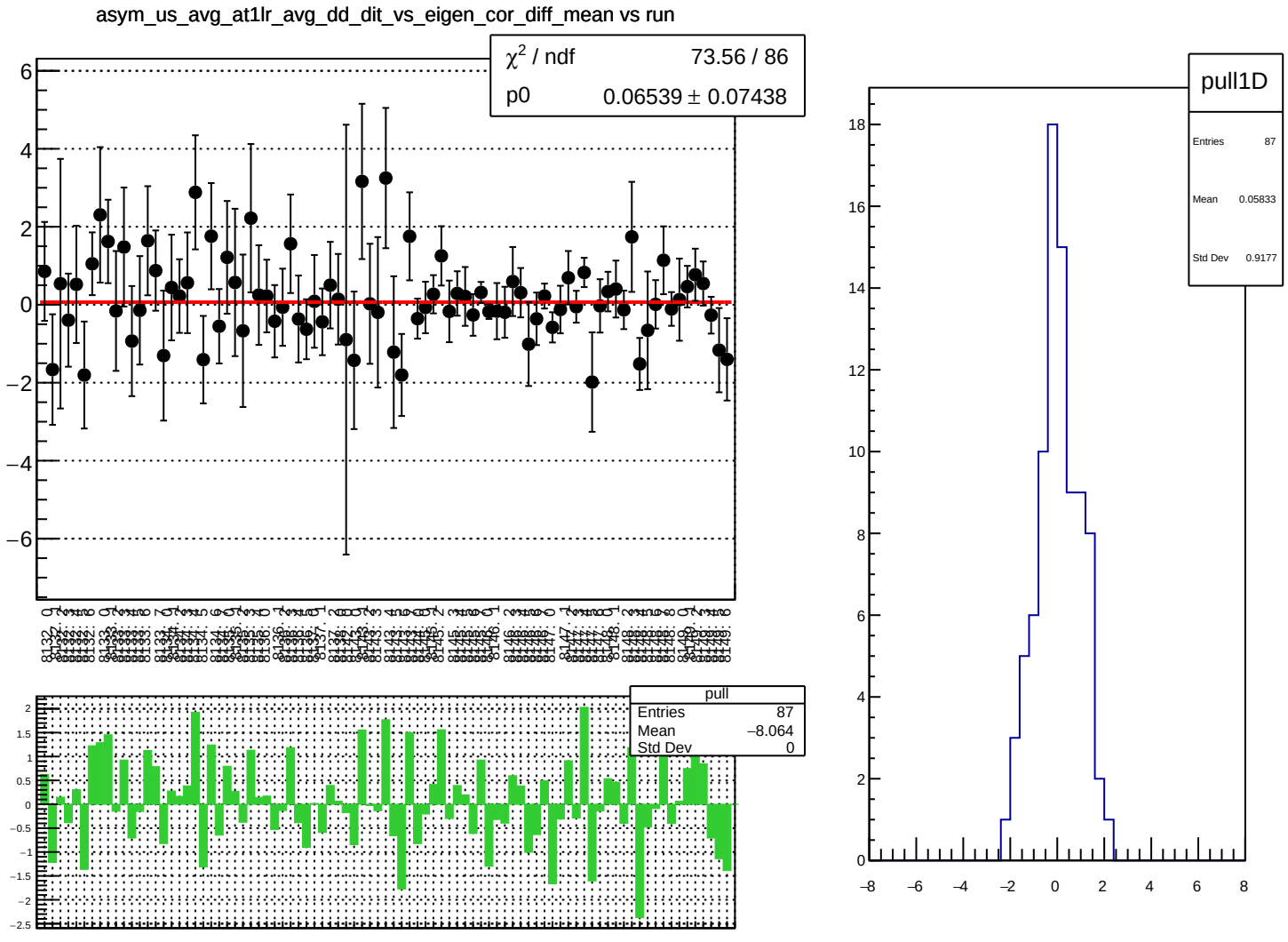

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 101.7 / 86
p0 1.581e−14 ± 3.368e−14
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 87
Mean −0.2354
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.1049
Std Dev 1.076
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

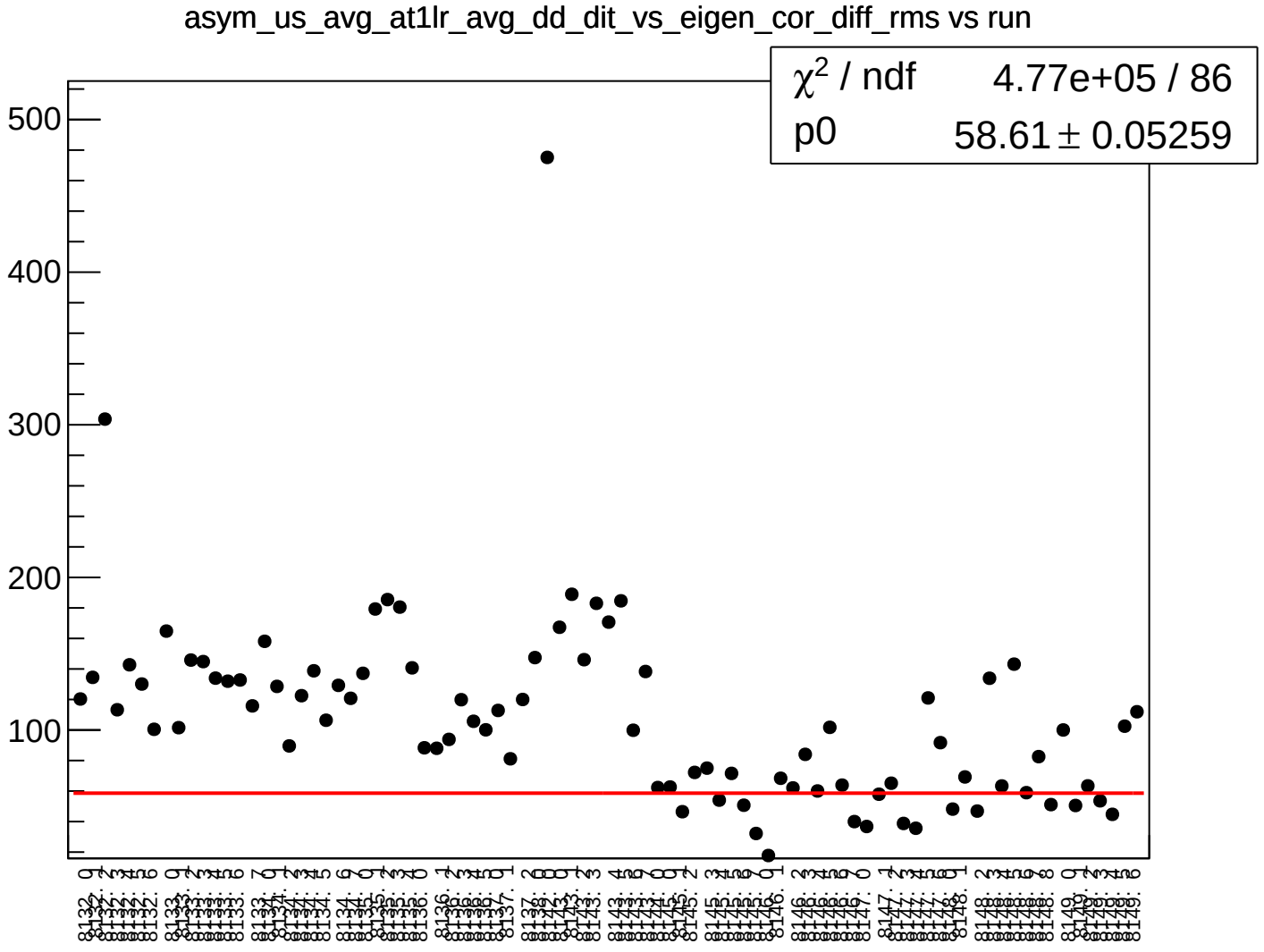

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.274e+06 / 86
p0 1.588e−11 ± 2.382e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

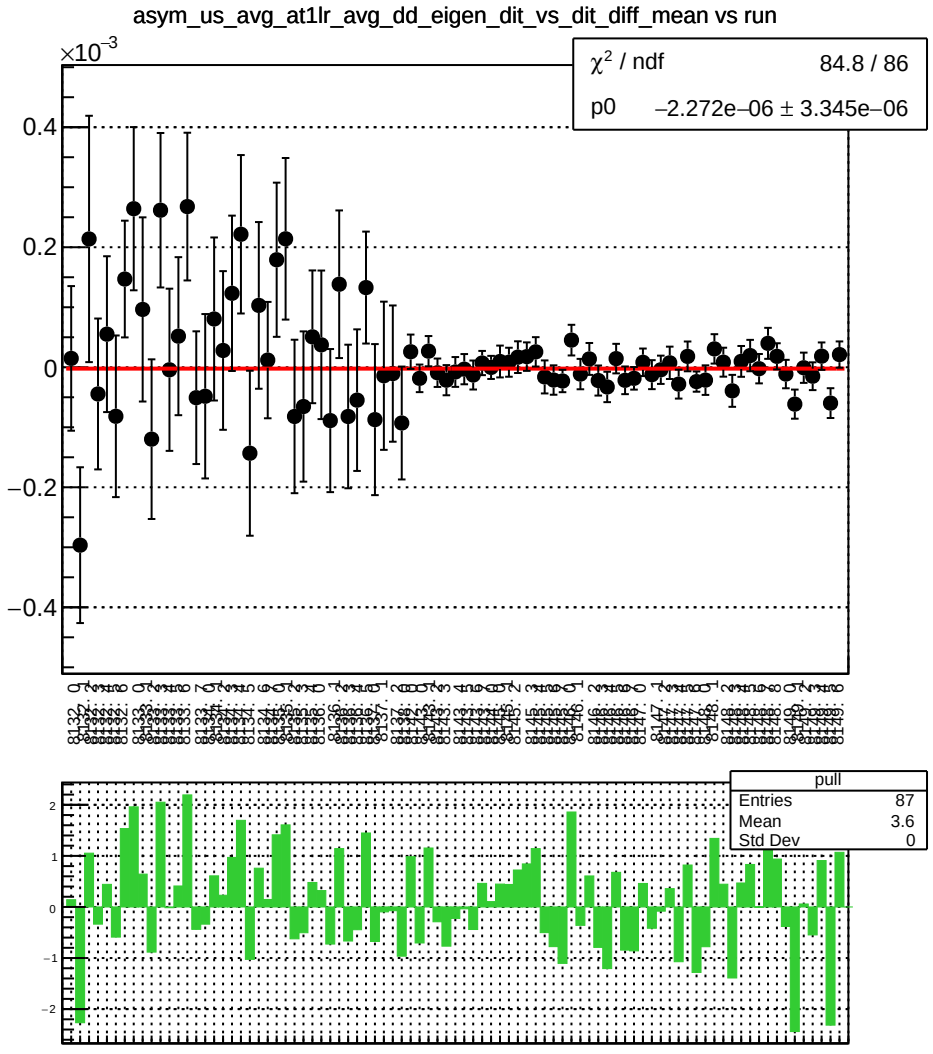

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 73.56 / 86
p0 0.06539 ± 0.07438
pull
Entries 87
Mean −8.064
Std Dev 0

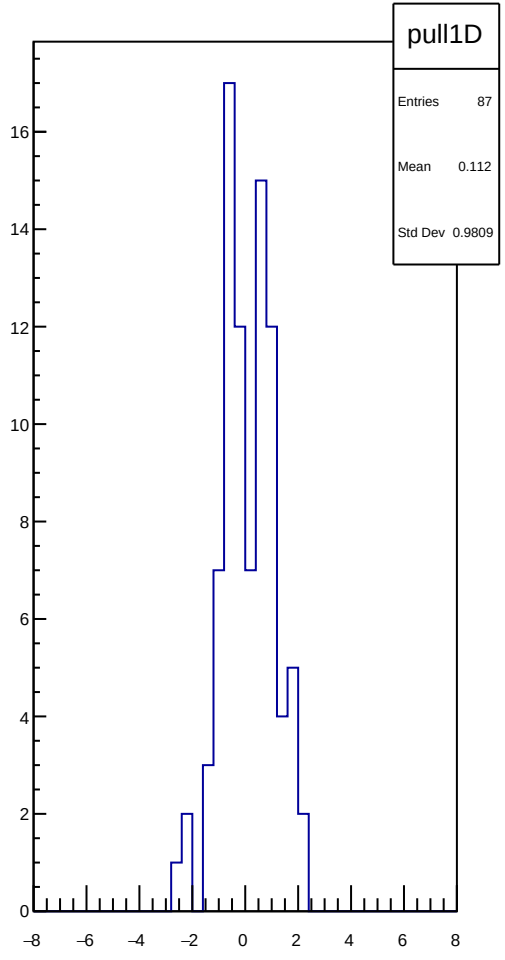

pull1D
Entries 87
Mean 0.05833
Std Dev 0.9177

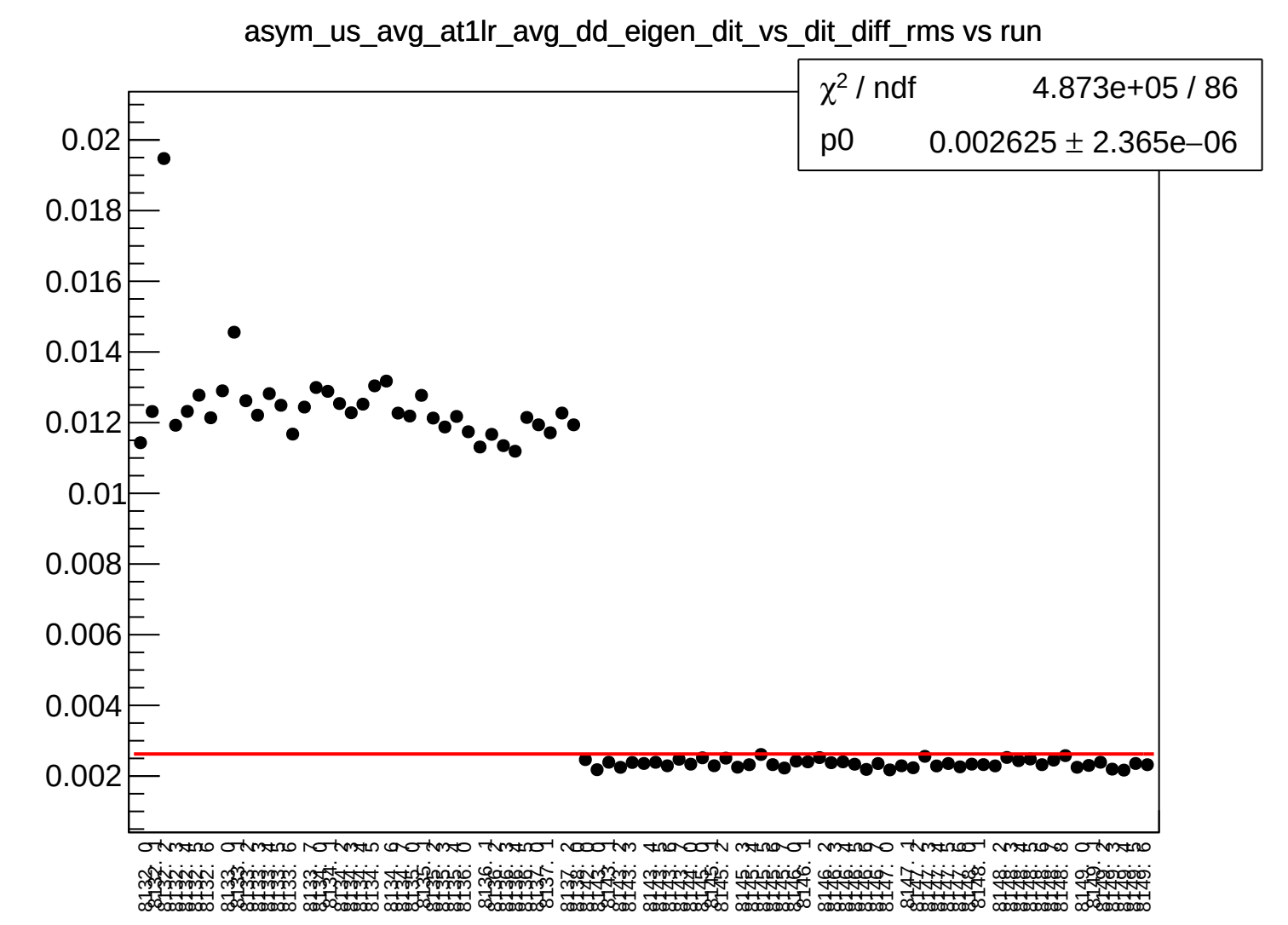

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 4.77e+05 / 86
p0 58.61 ± 0.05259
500
400
300
200
100

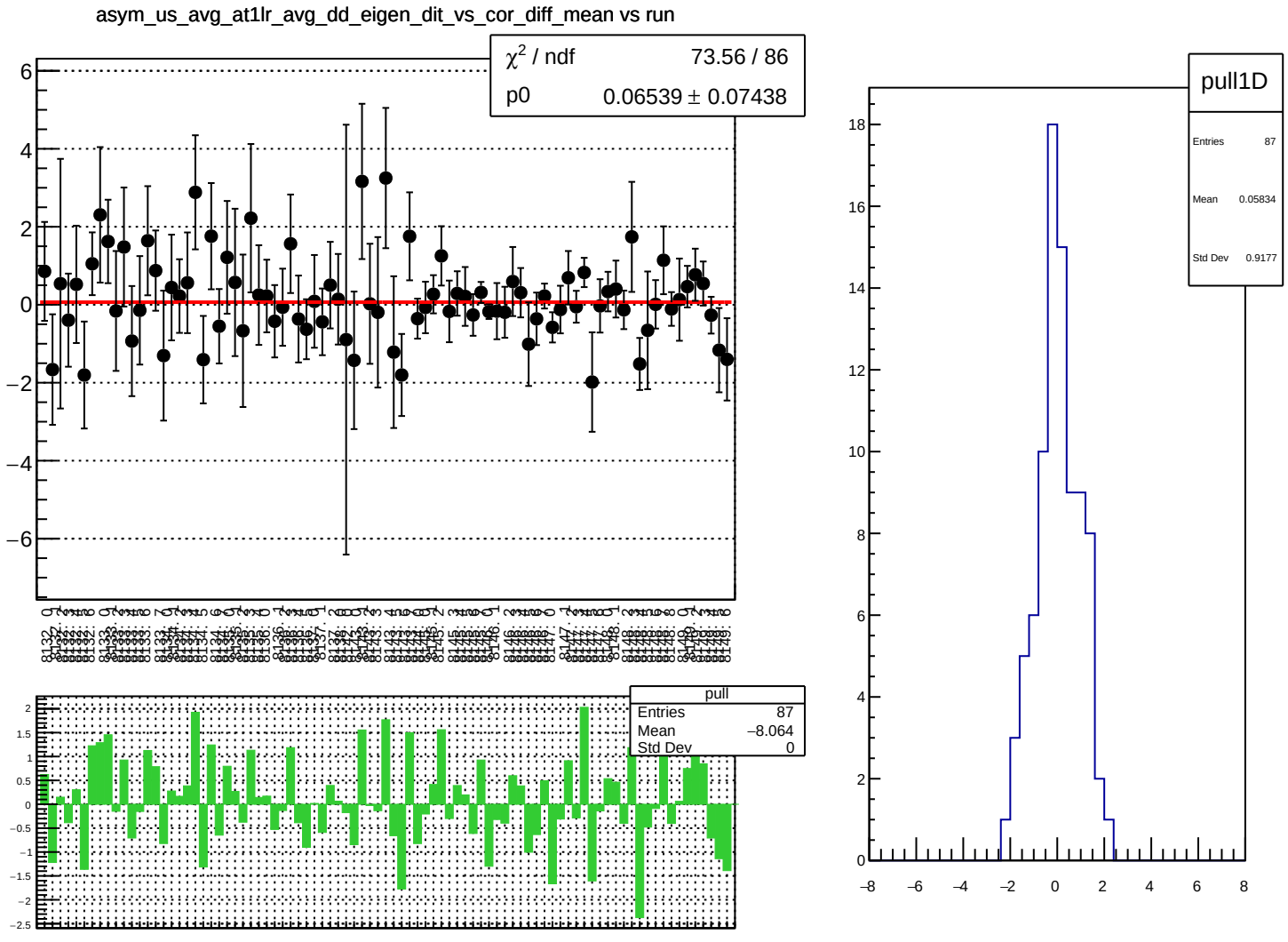

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.56 / 86
p0 0.06539 ± 0.07438
pull
Entries 87
Mean −8.064
Std Dev 0
pull1D
Entries 87
Mean 0.05833
Std Dev 0.9177

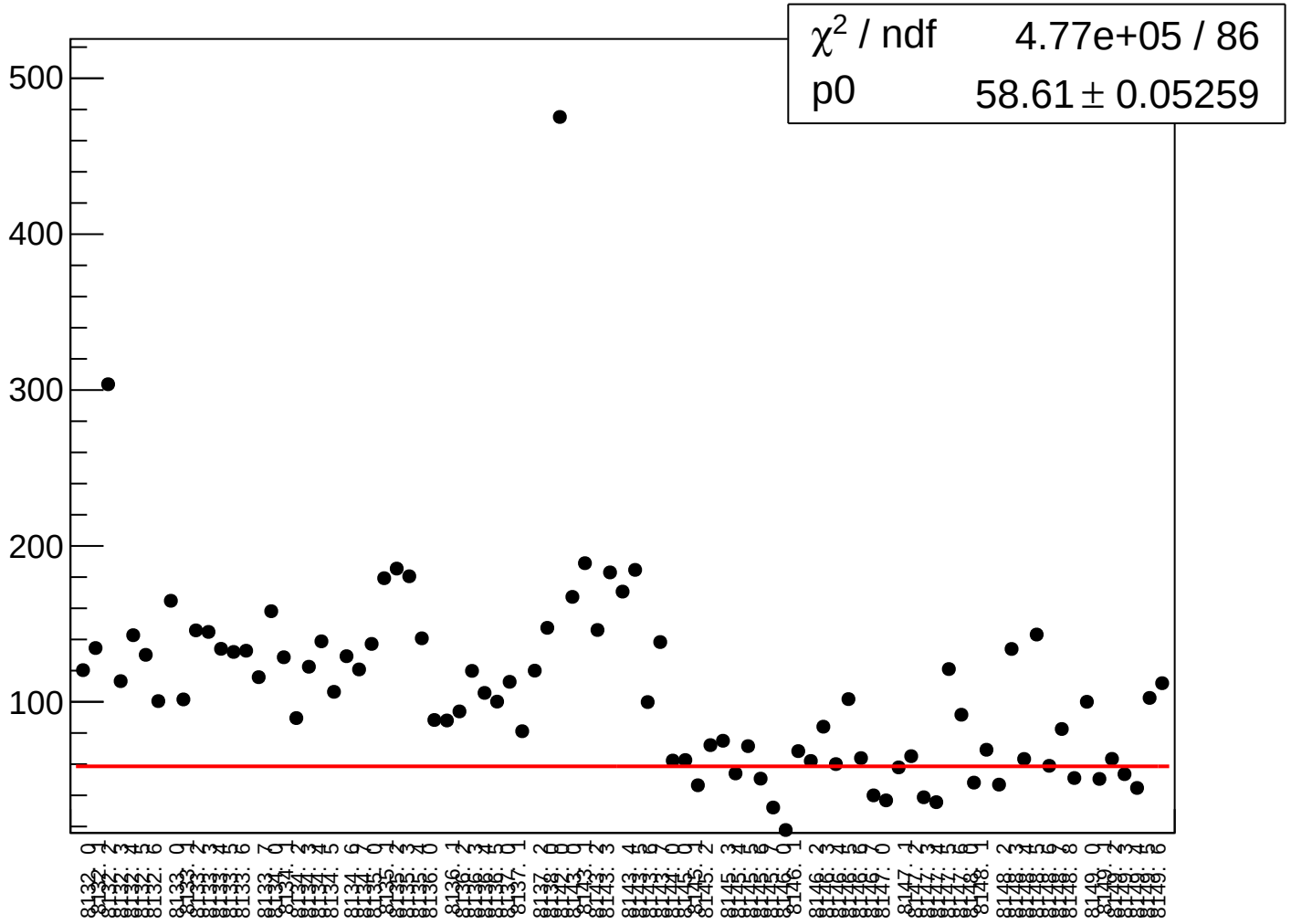

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 4.77e+05 / 86
p0 58.61 ± 0.05259
500
400
300
200
100

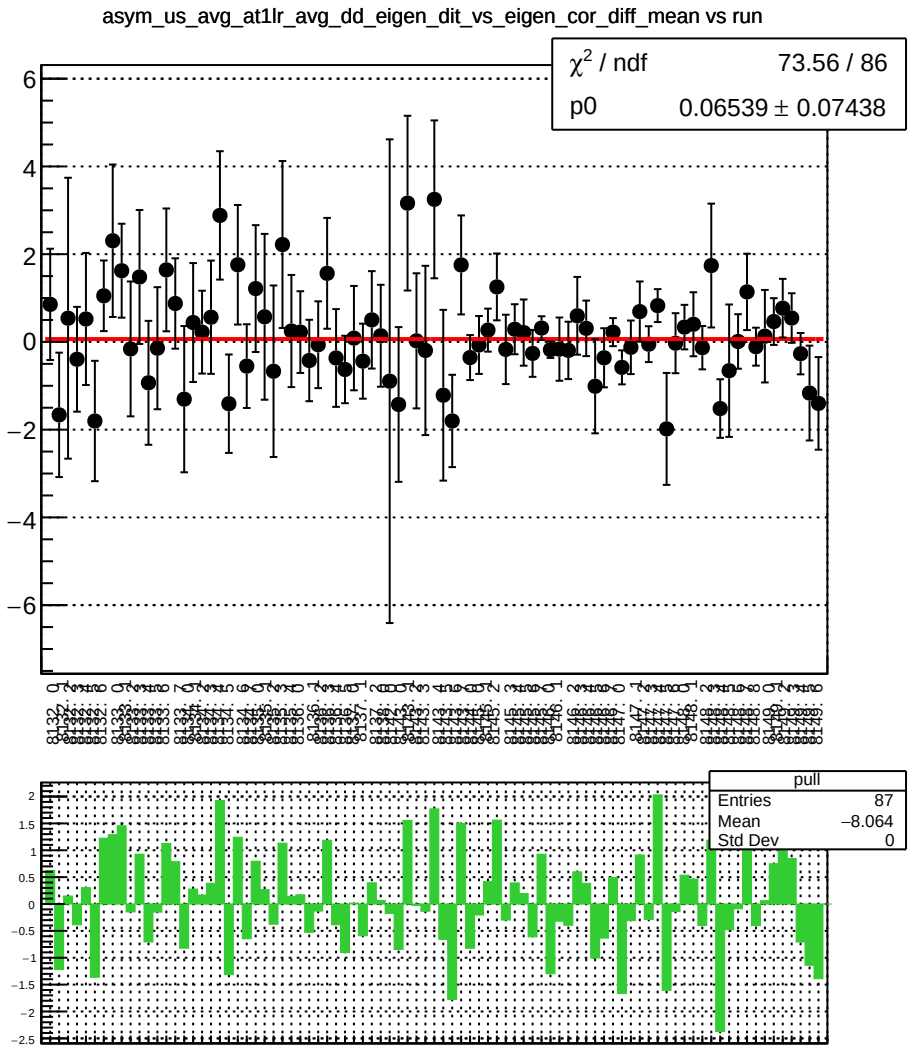

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.8 / 86
p0 −2.272e−06 ± 3.345e−06
0.4
0.2
0
−0.2
−0.4
pull
Entries 87
Mean 3.6
Std Dev 0
2
1
0
−1
−2

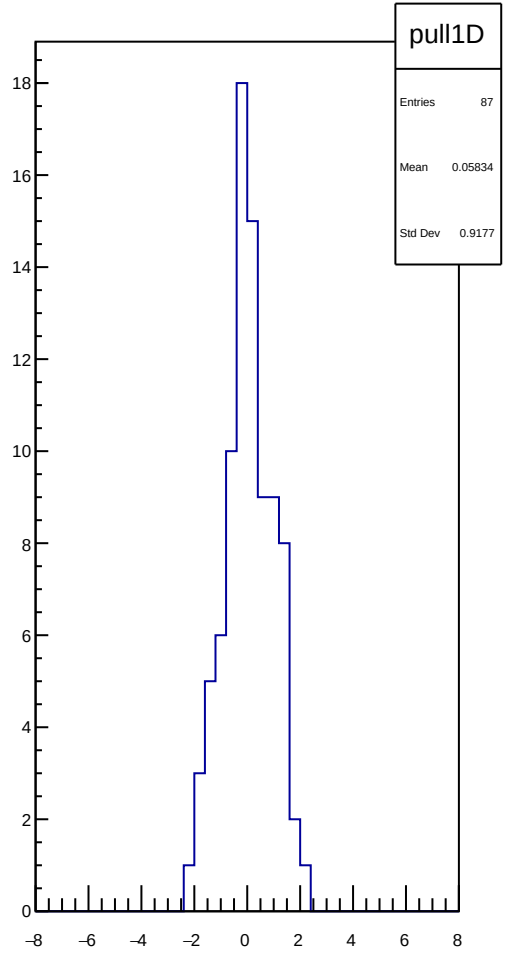

pull1D
Entries 87
Mean 0.112
Std Dev 0.9809
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

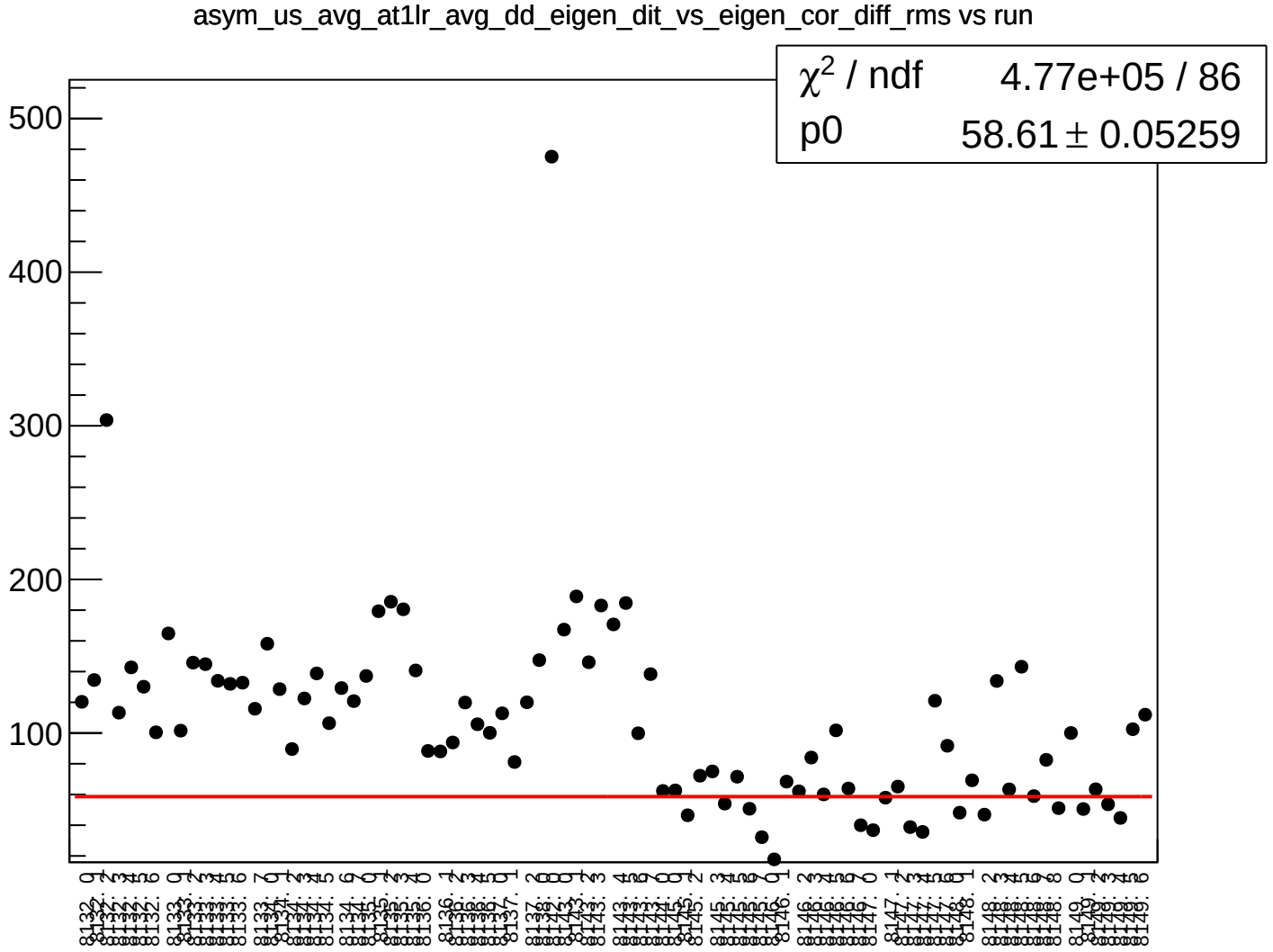

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.873e+05 / 86
p0 0.002625 ± 2.365e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

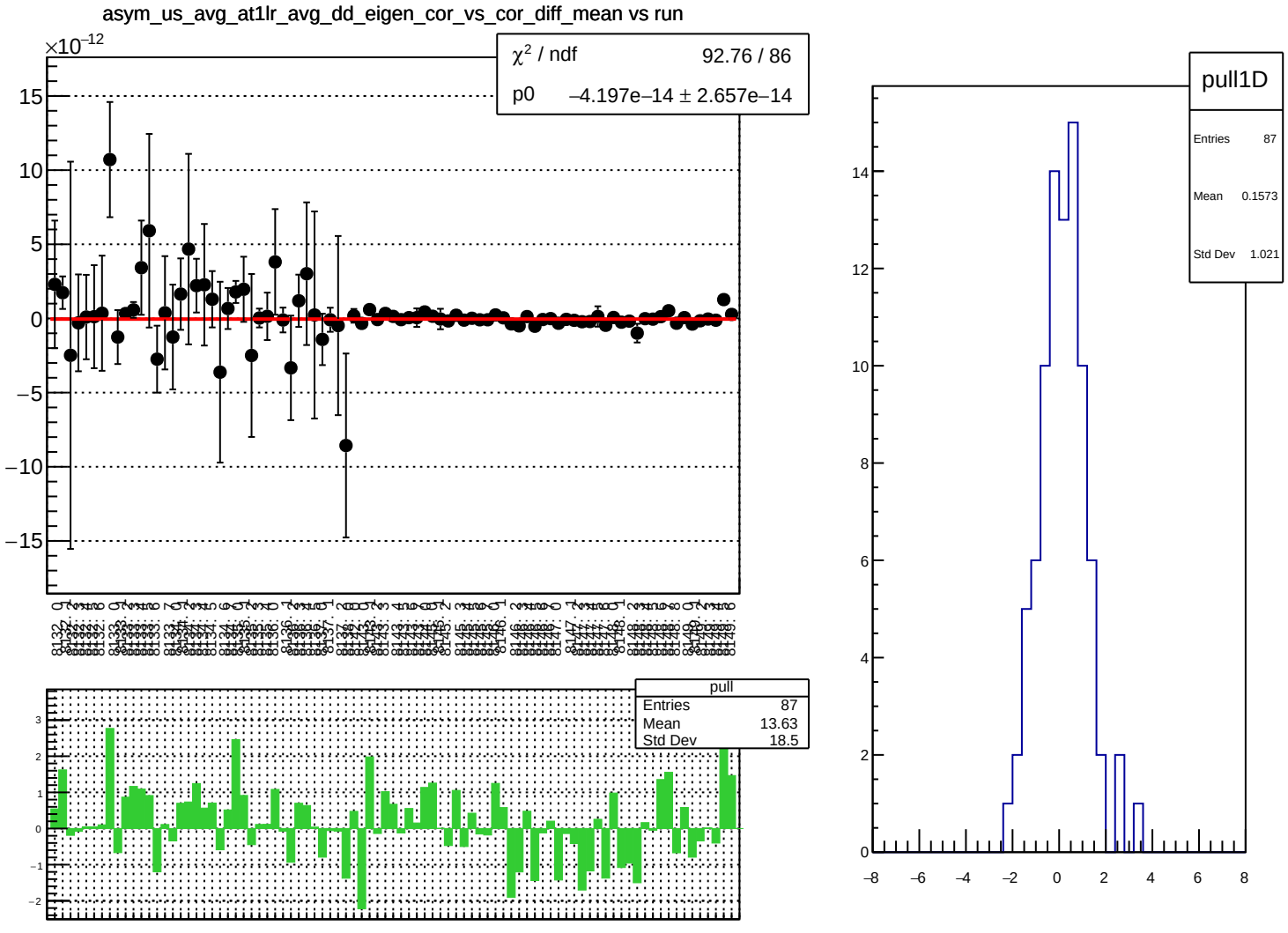

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 73.56 / 86
p0 0.06539 ± 0.07438
pull
Entries 87
Mean −8.064
Std Dev 0
pull1D
Entries 87
Mean 0.05834
Std Dev 0.9177

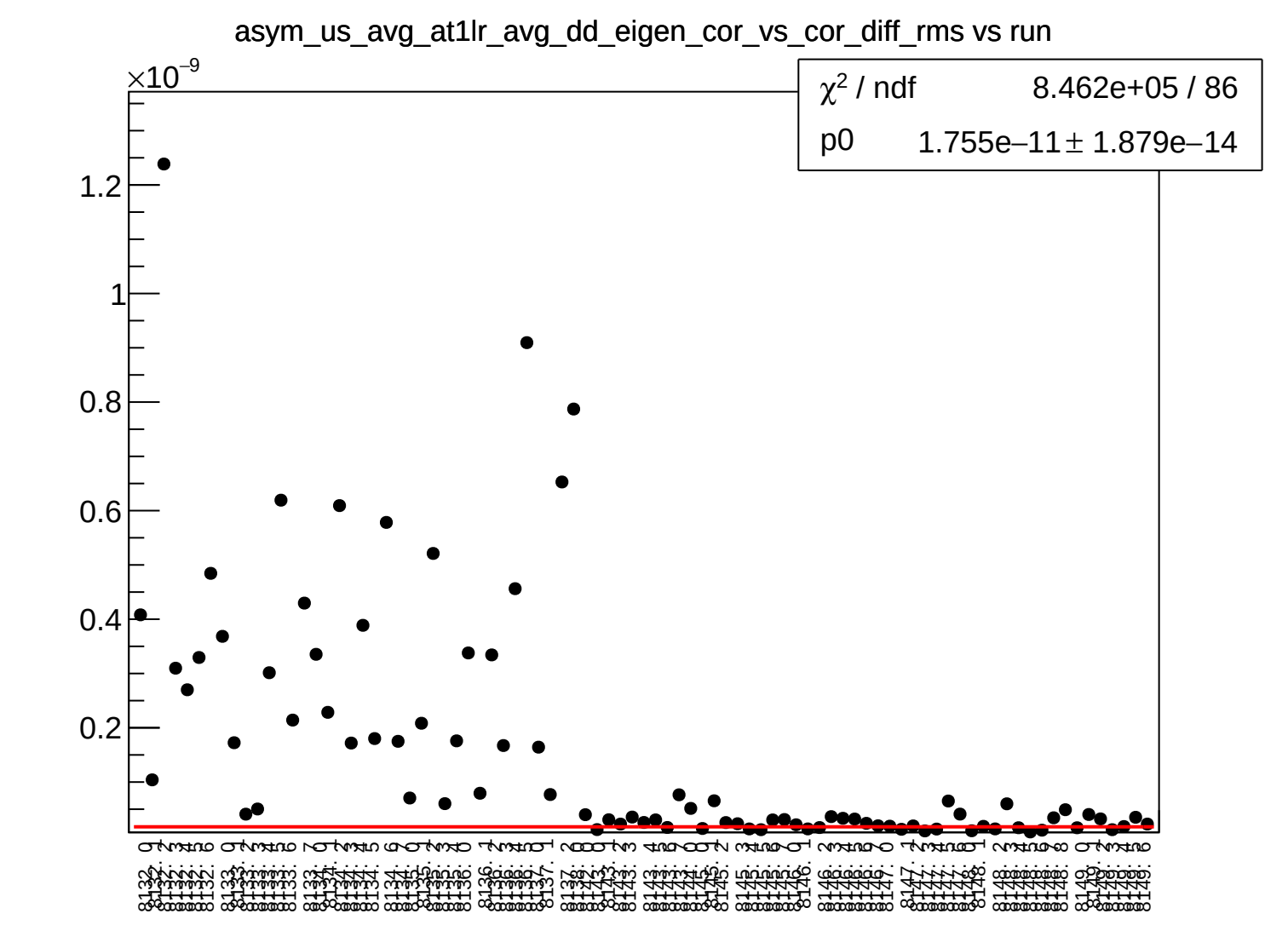

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.77e+05 / 86
p0 58.61 ± 0.05259
500
400
300
200
100

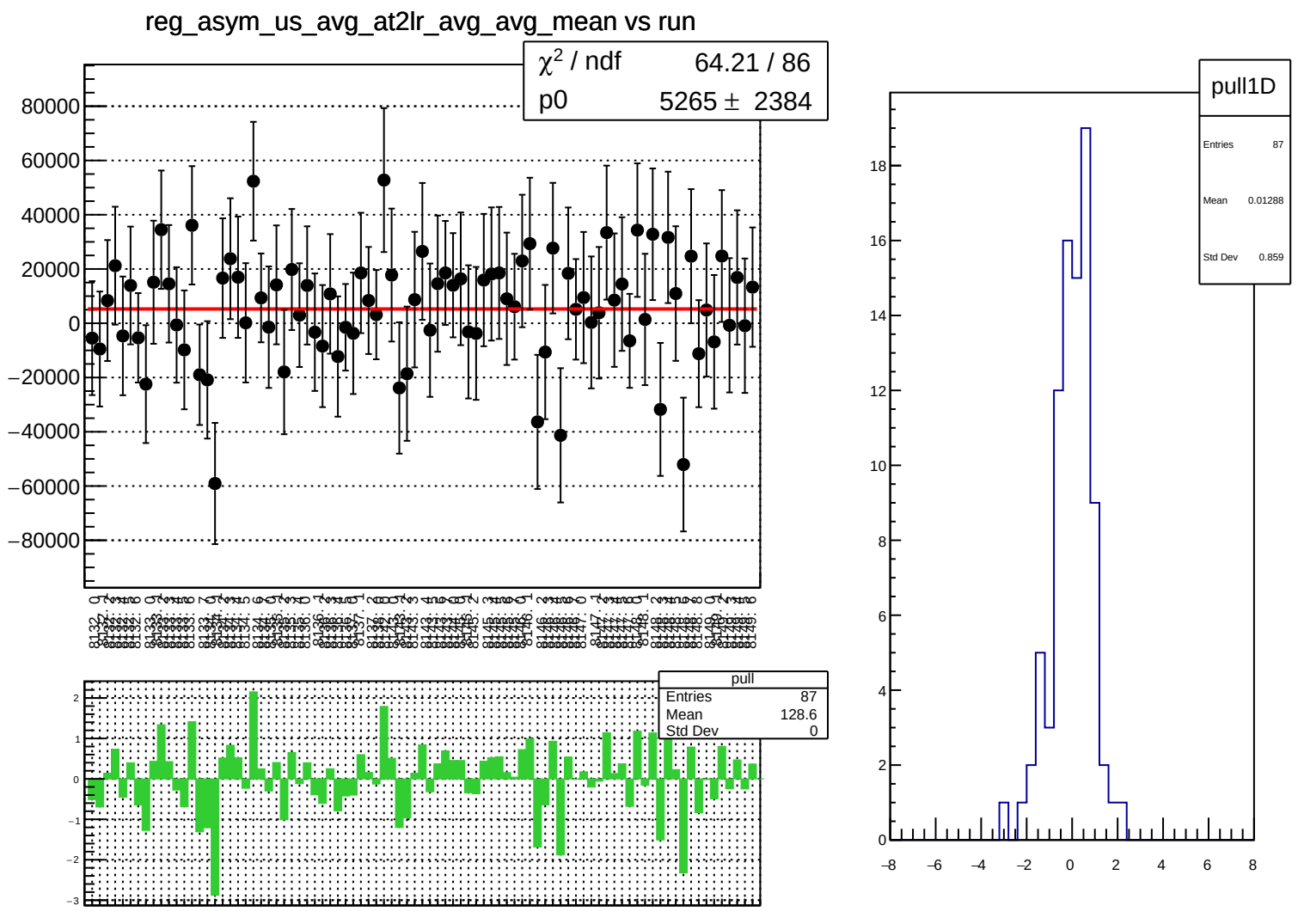

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.56 / 86
p0 0.06539 ± 0.07438
pull
Entries 87
Mean −8.064
Std Dev 0

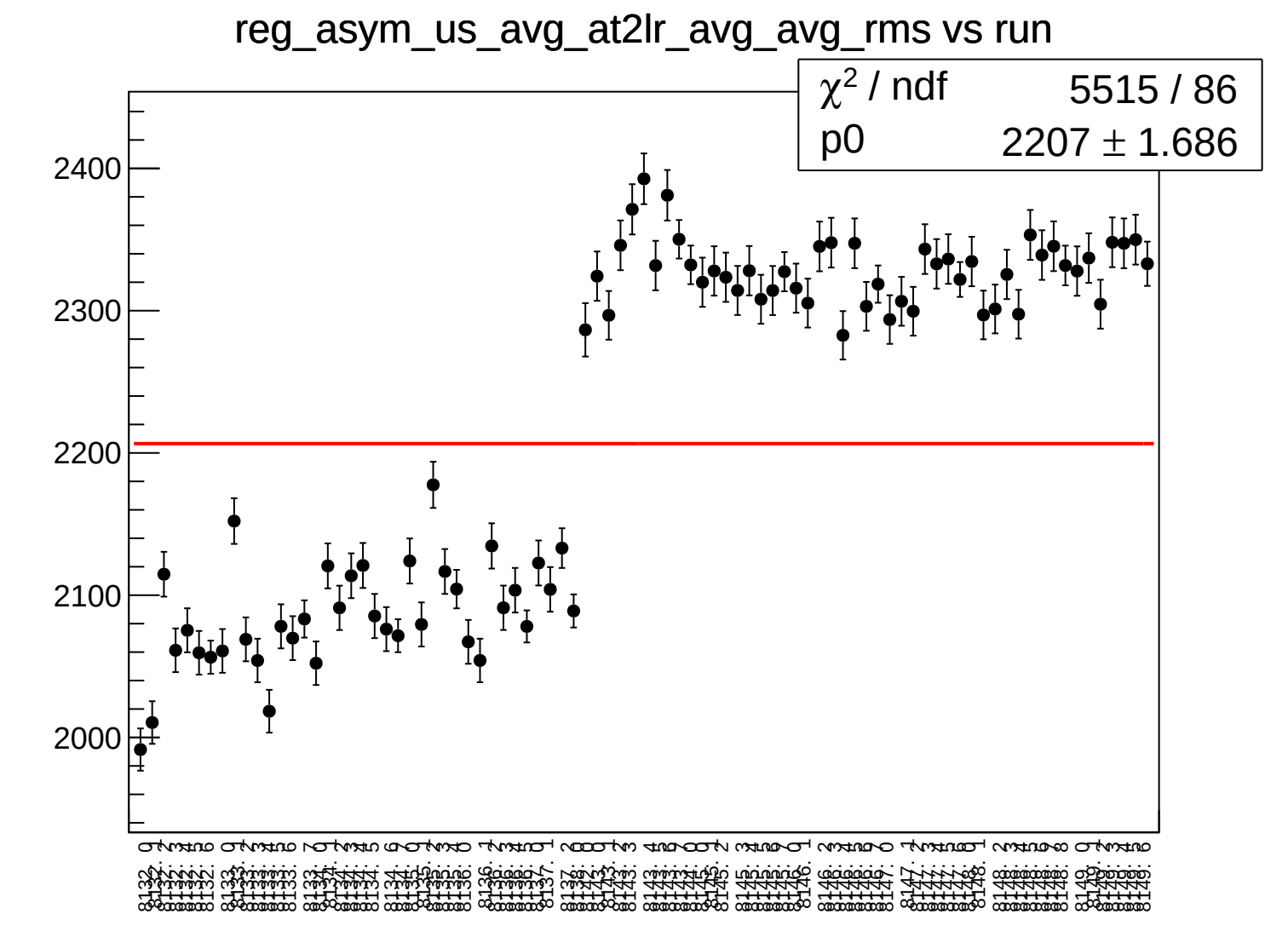

pull1D
Entries 87
Mean 0.05834
Std Dev 0.9177

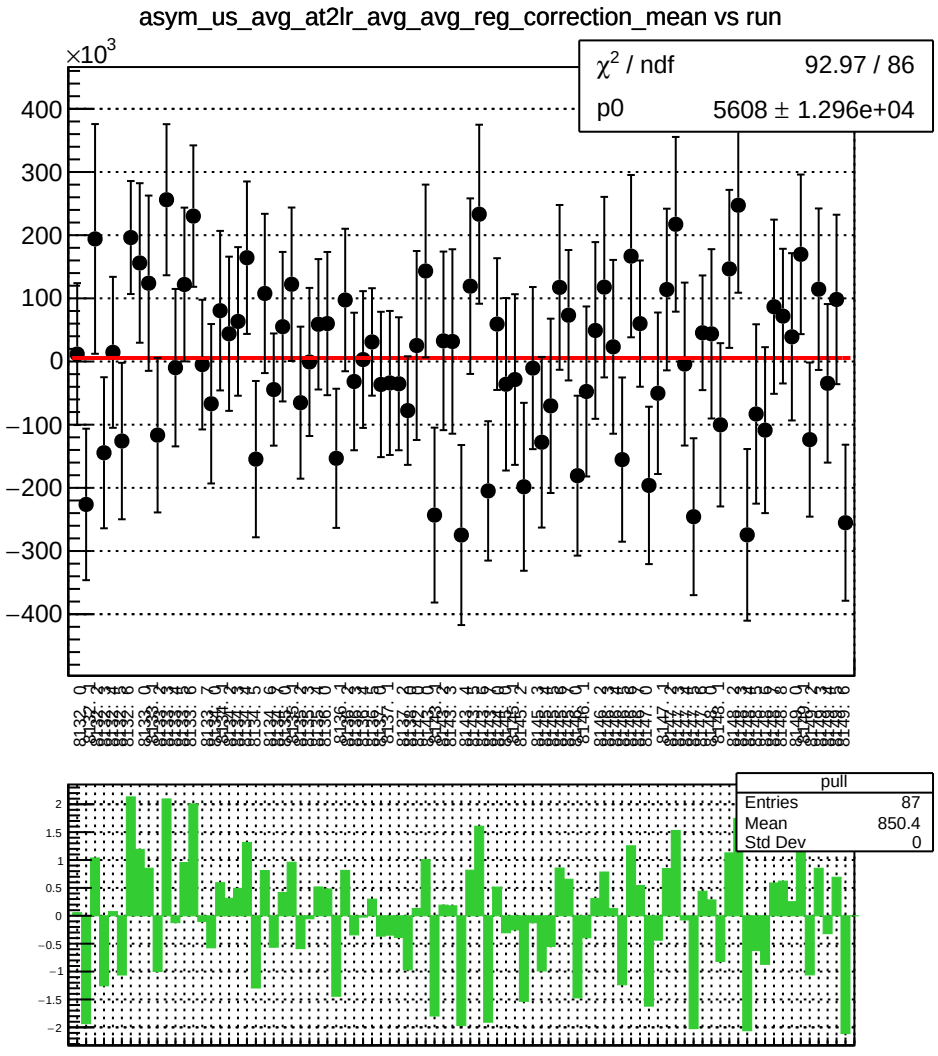

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.77e+05 / 86
p0 58.61 ± 0.05259
500
400
300
200
100

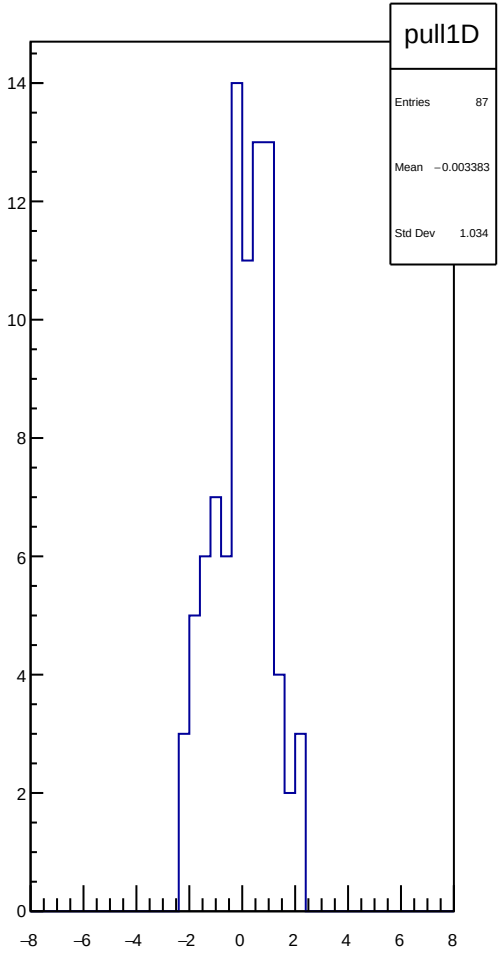

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.76 / 86
p0 −4.197e−14 ± 2.657e−14
pull
Entries 87
Mean 13.63
Std Dev 18.5
pull1D
Entries 87
Mean 0.1573
Std Dev 1.021

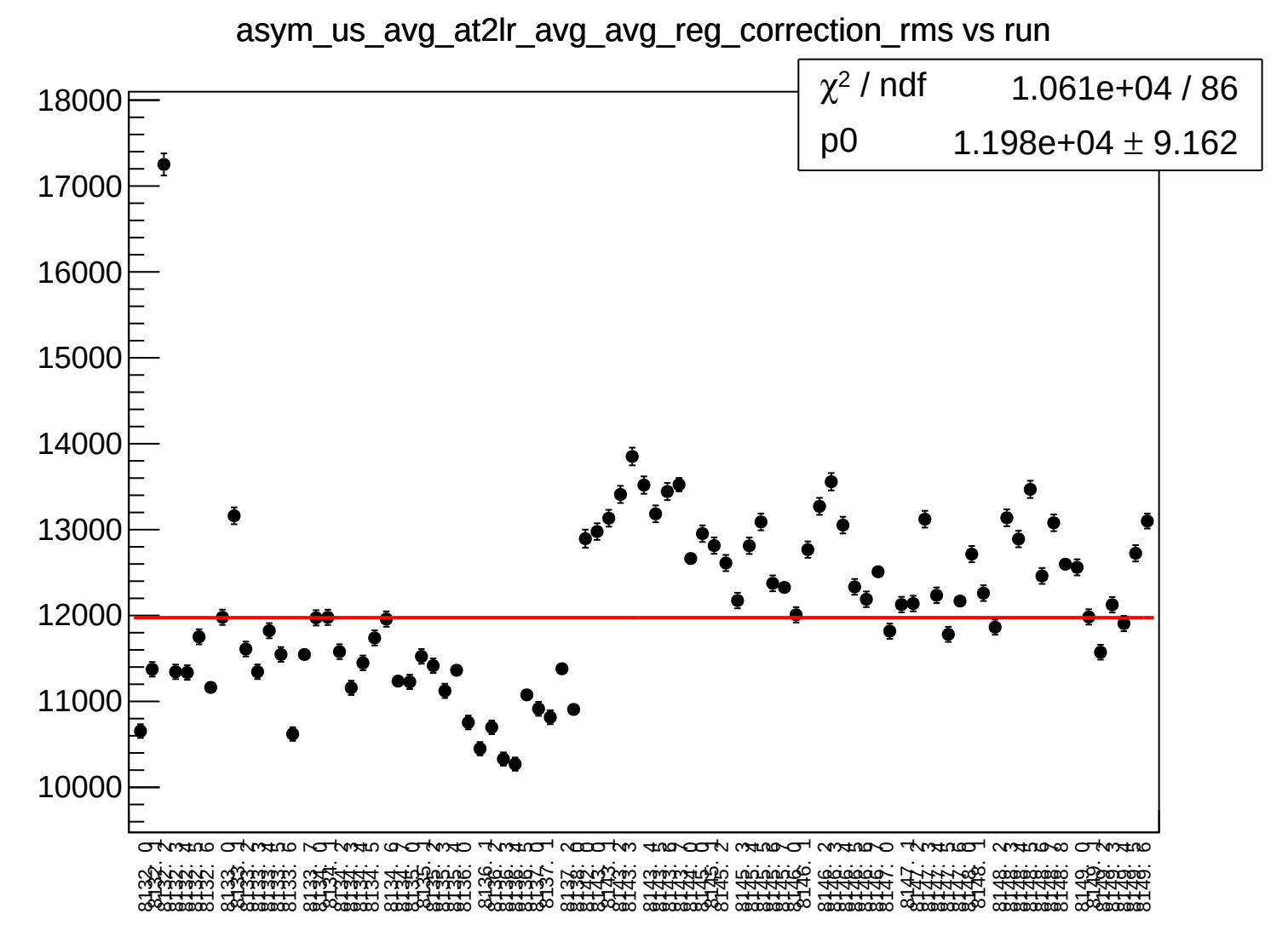

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.462e+05 / 86
p0 1.755e−11 ± 1.879e−14
1.2
1
0.8
0.6
0.4
0.2

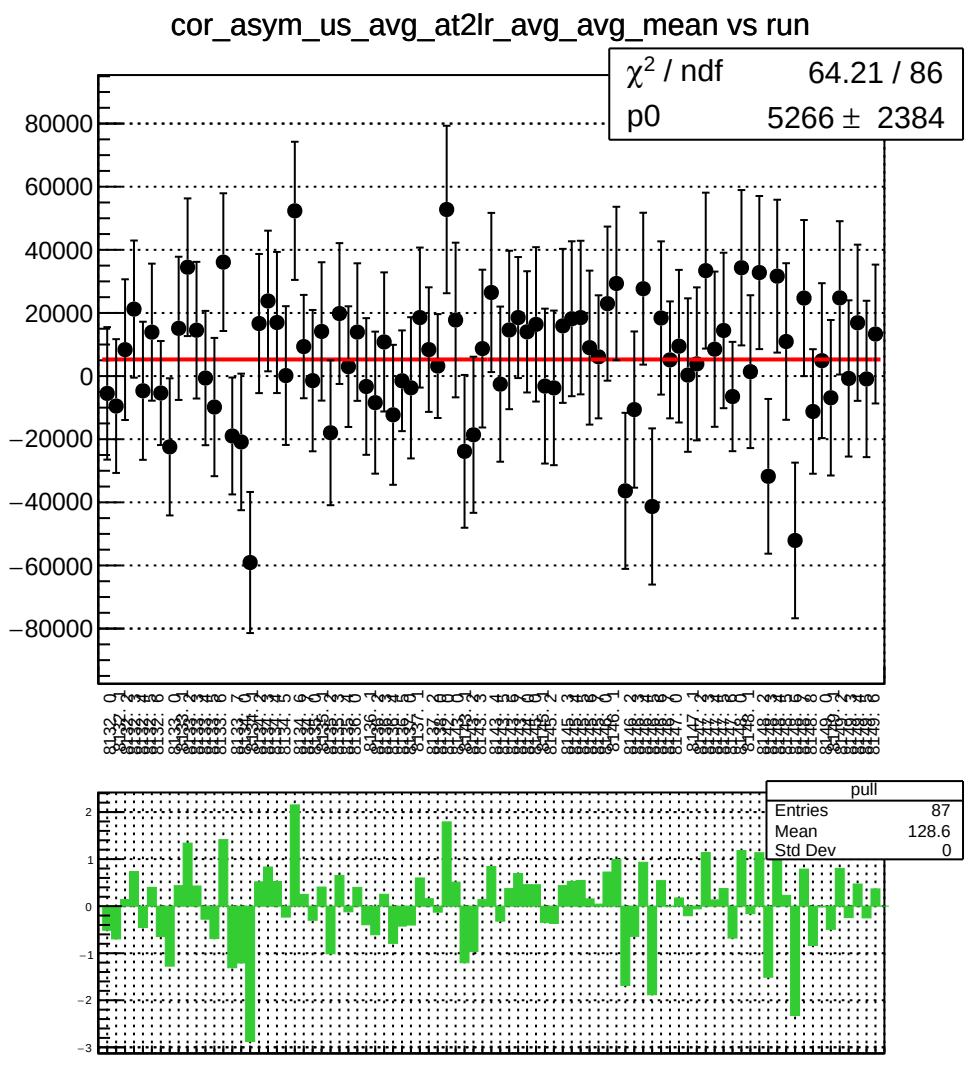

reg_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 64.21 / 86
p0 5265 ± 2384
pull
Entries 87
Mean 128.6
Std Dev 0
pull1D
Entries 87
Mean 0.01288
Std Dev 0.859

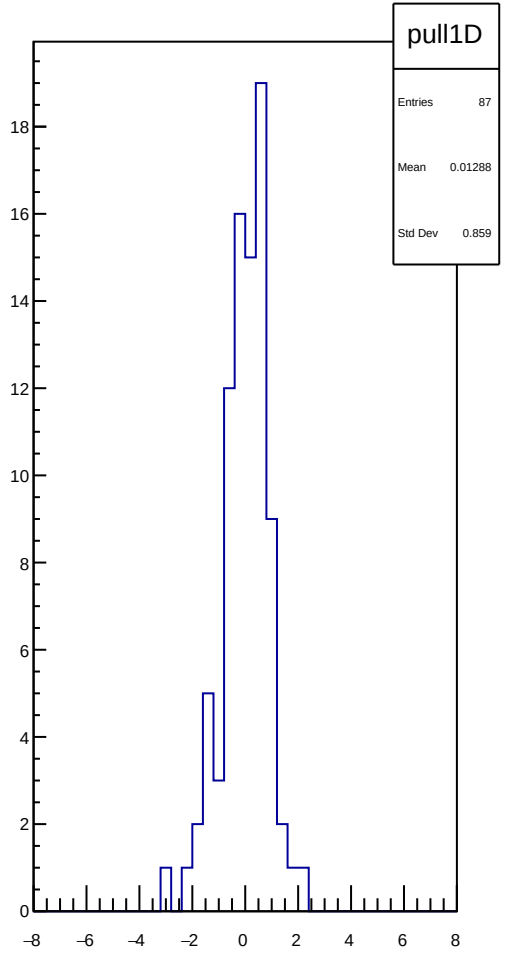

reg_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 5515 / 86
p0 2207 ± 1.686
2400
2300
2200
2100
2000

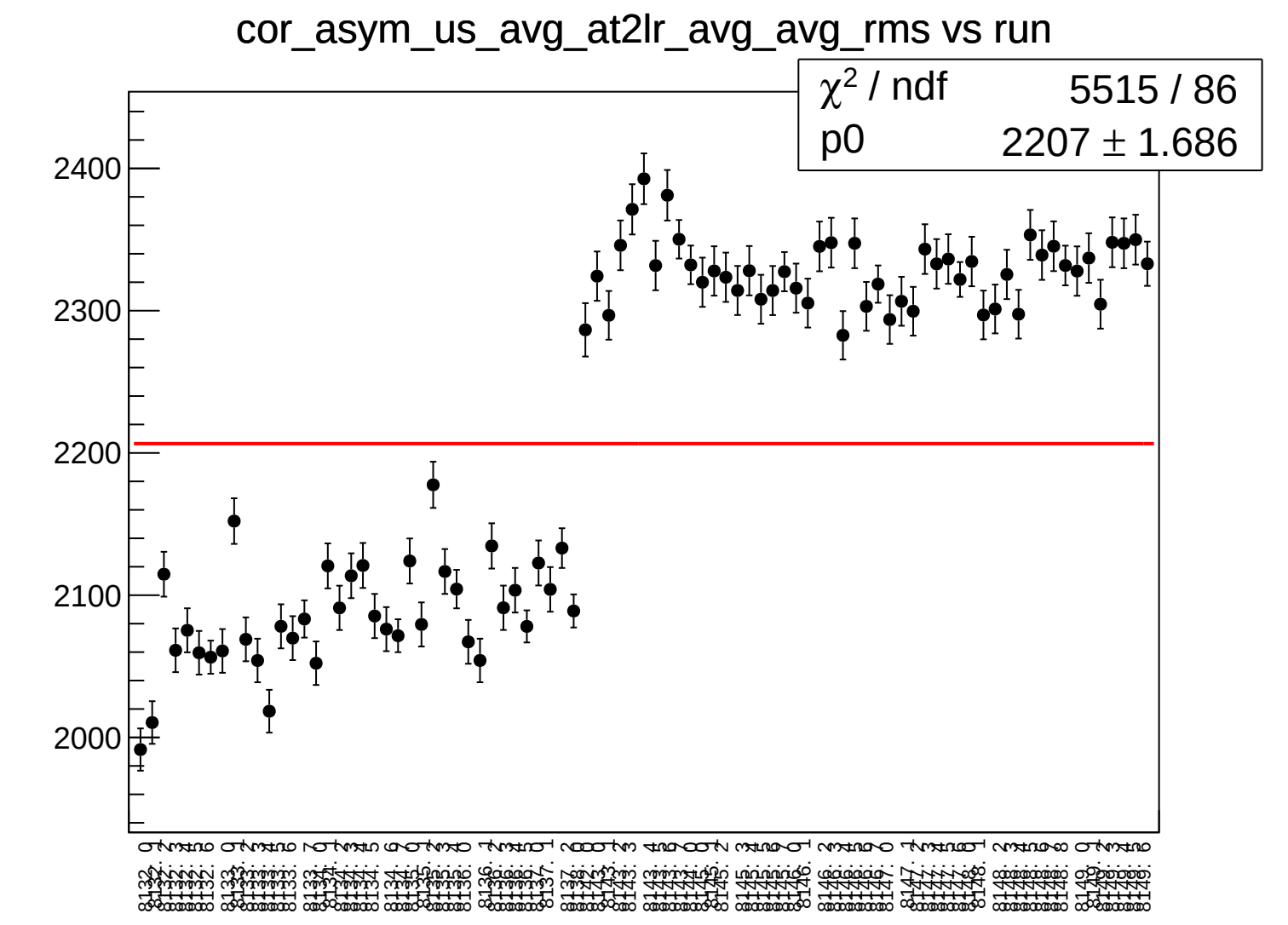

asym_us_avg_at2lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 92.97 / 86
p0 5608 ± 1.296e+04
pull
Entries 87
Mean 850.4
Std Dev 0

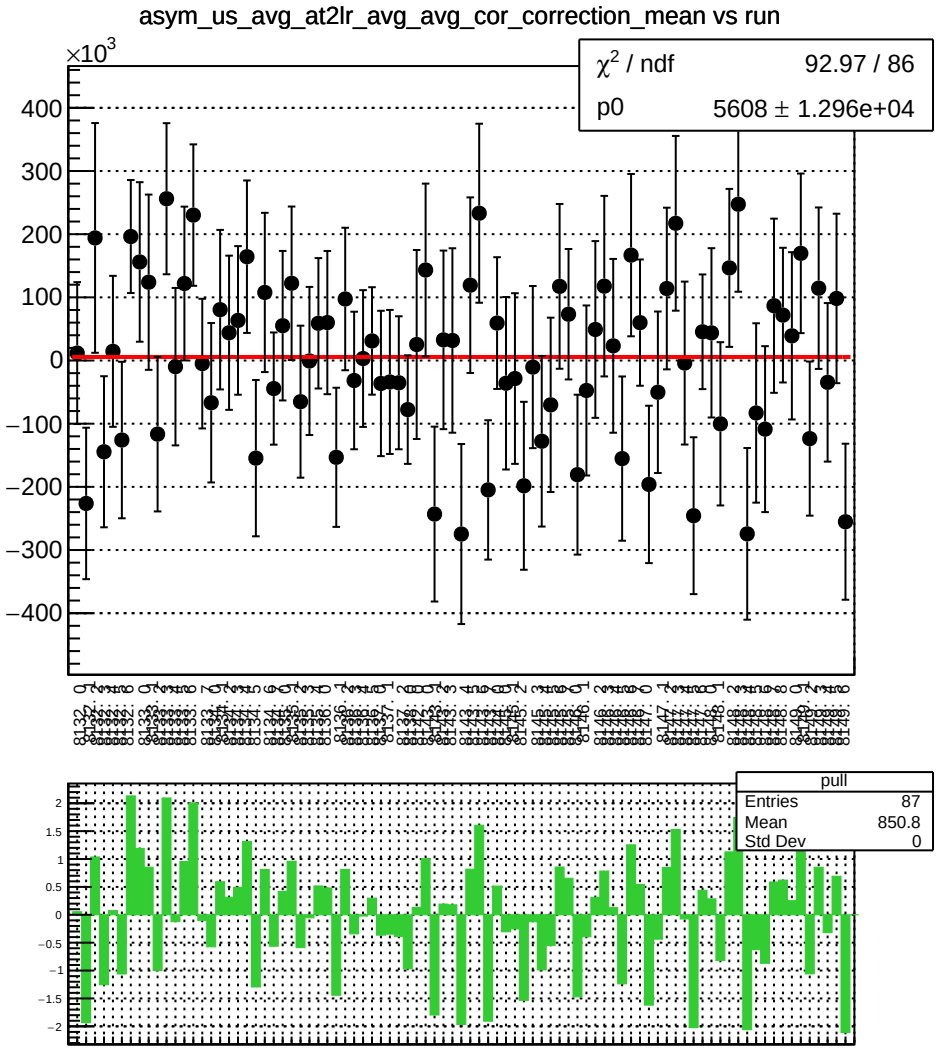

pull1D
Entries 87
Mean −0.003383
Std Dev 1.034

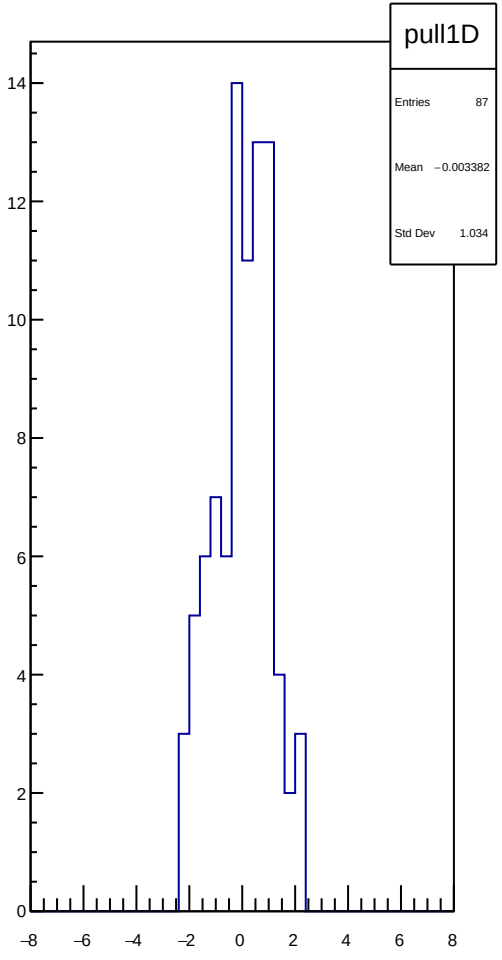

asym_us_avg_at2lr_avg_avg_reg_correction_rms vs run
χ² / ndf 1.061e+04 / 86
p0 1.198e+04 ± 9.162
18000
17000
16000
15000
14000
13000
12000
11000
10000

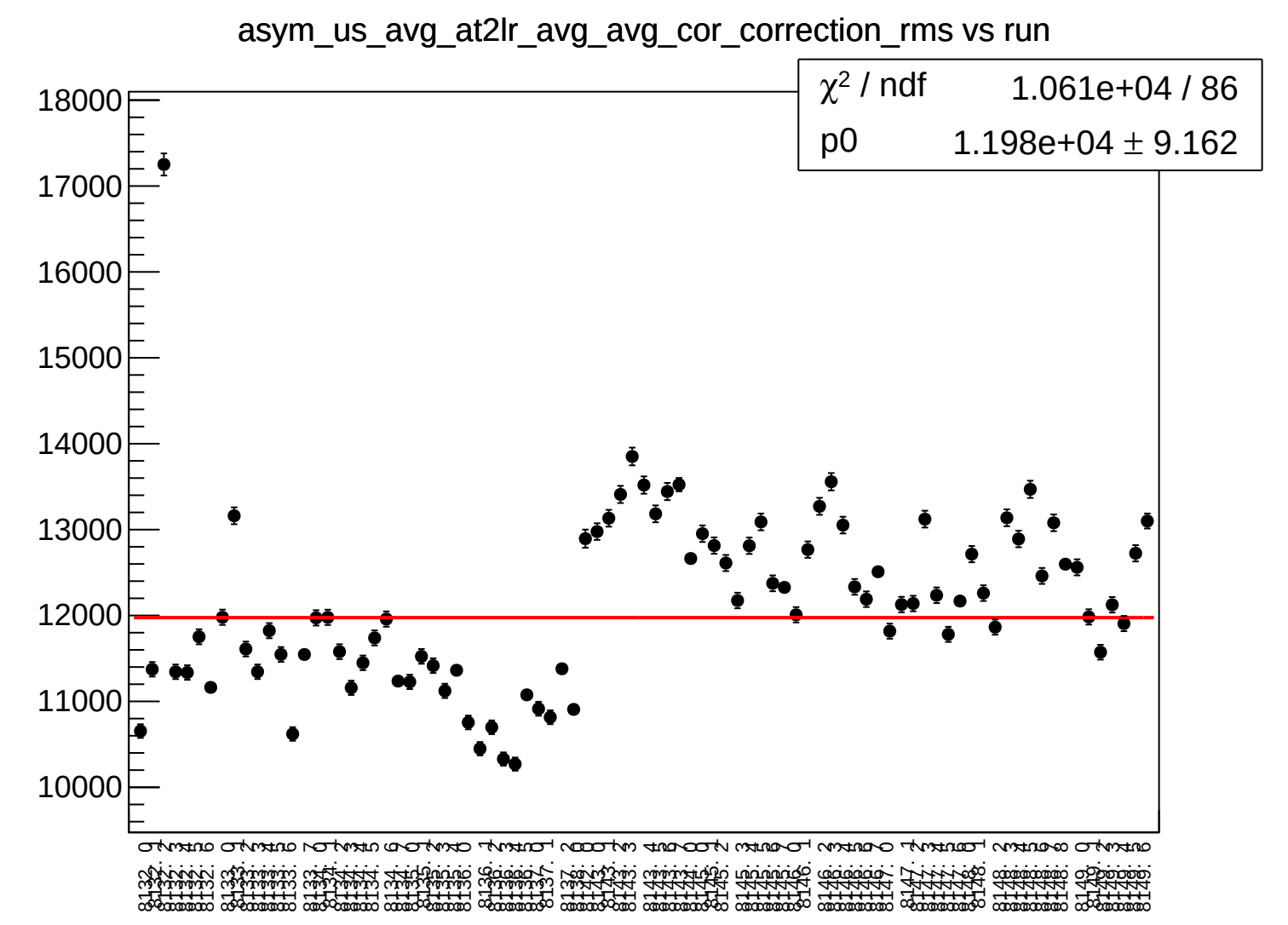

cor_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 64.21 / 86
p0 5266 ± 2384
pull
Entries 87
Mean 128.6
Std Dev 0

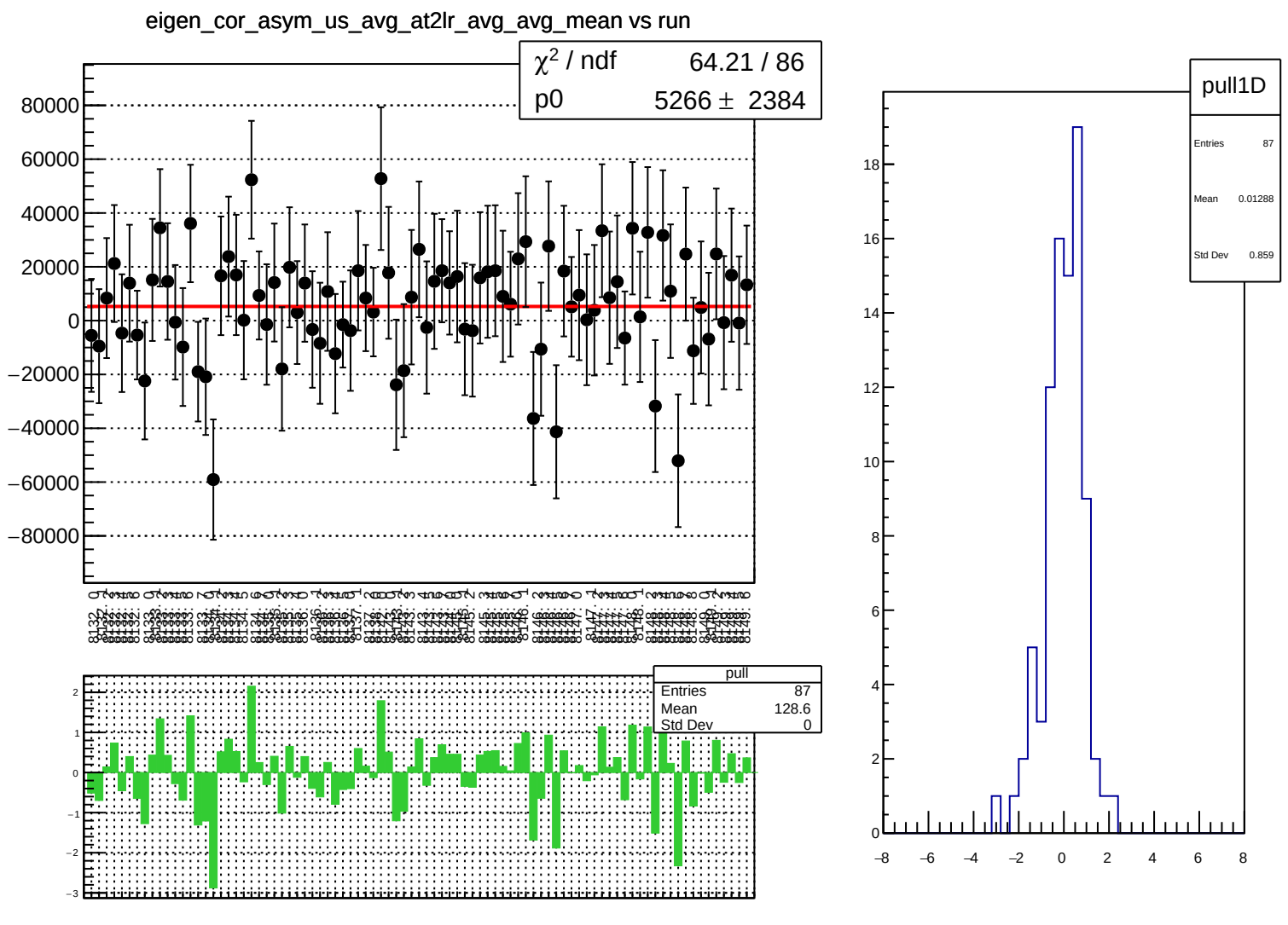

pull1D
Entries 87
Mean 0.01288
Std Dev 0.859

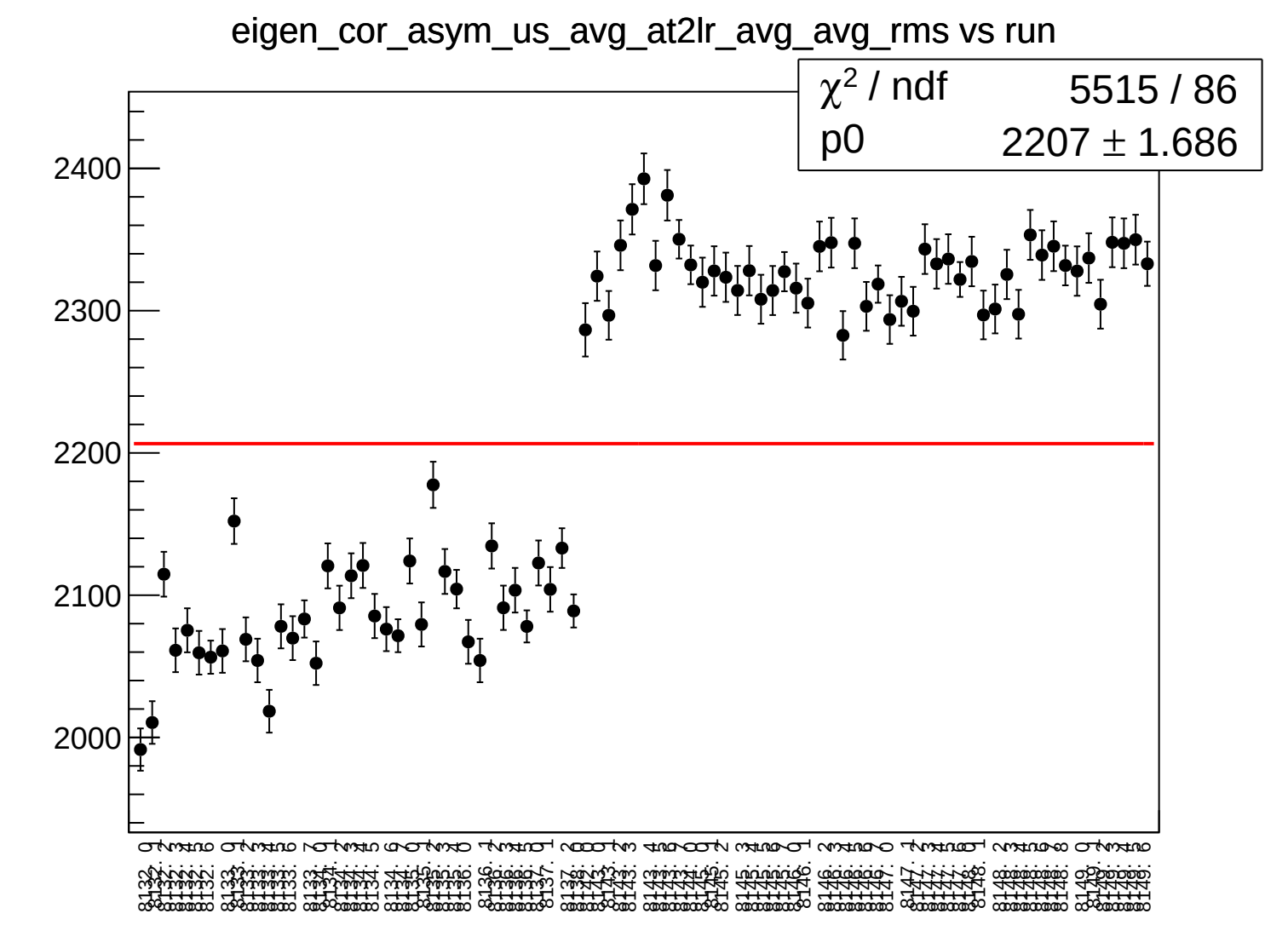

cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 5515 / 86
p0 2207 ± 1.686
2400
2300
2200
2100
2000

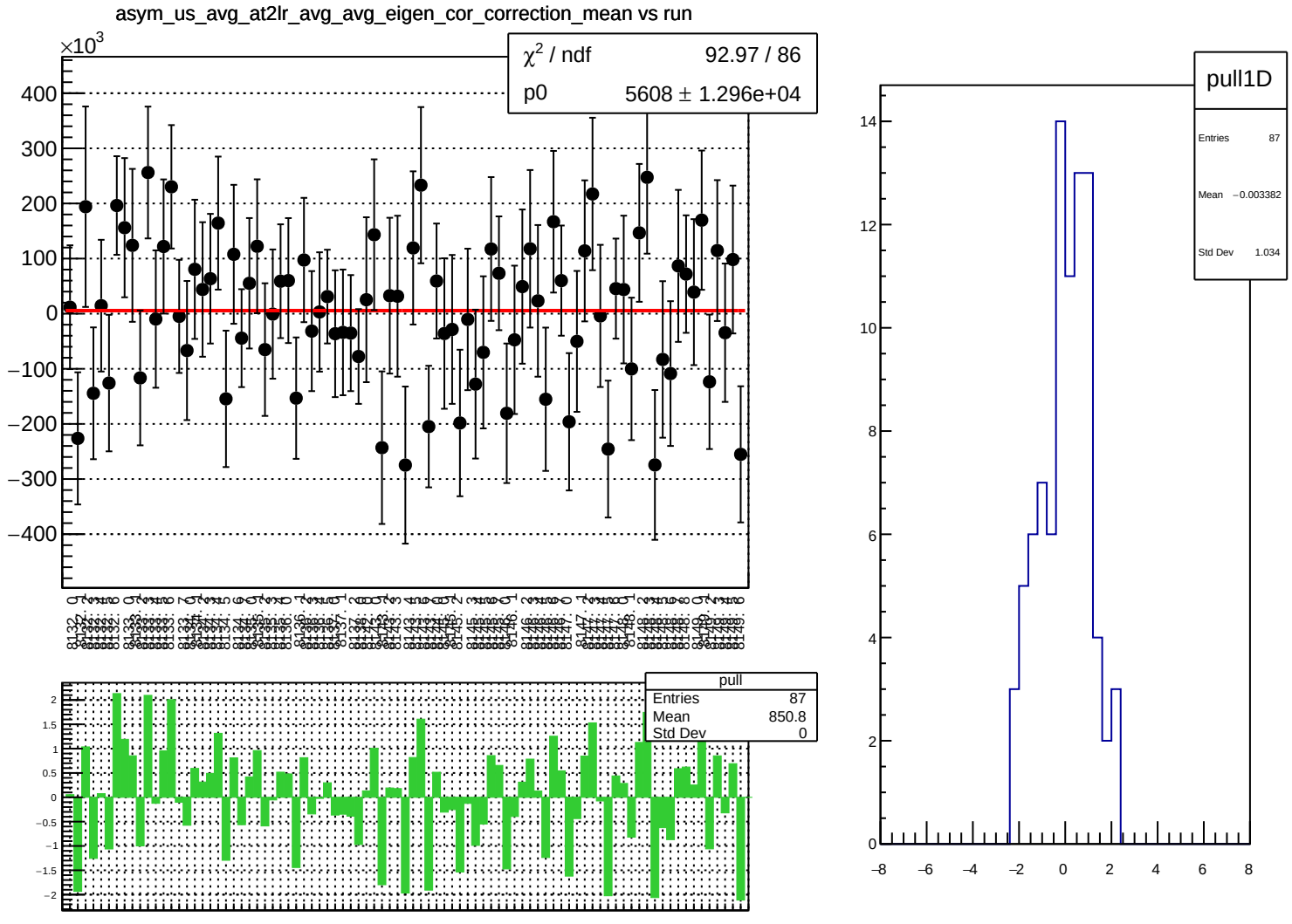

asym_us_avg_at2lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 92.97 / 86
p0 5608 ± 1.296e+04
pull
Entries 87
Mean 850.8
Std Dev 0

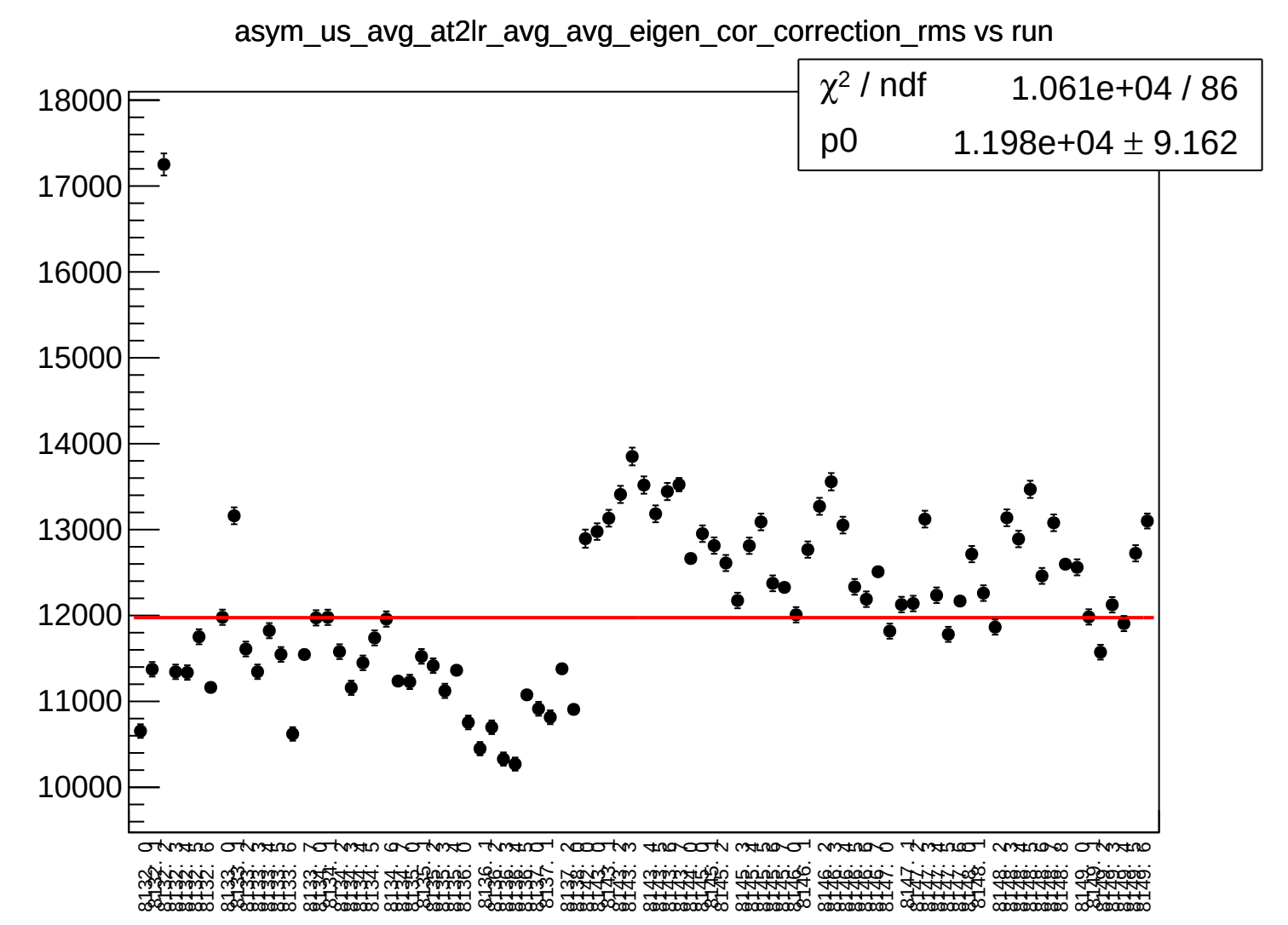

pull1D
Entries 87
Mean −0.003382
Std Dev 1.034

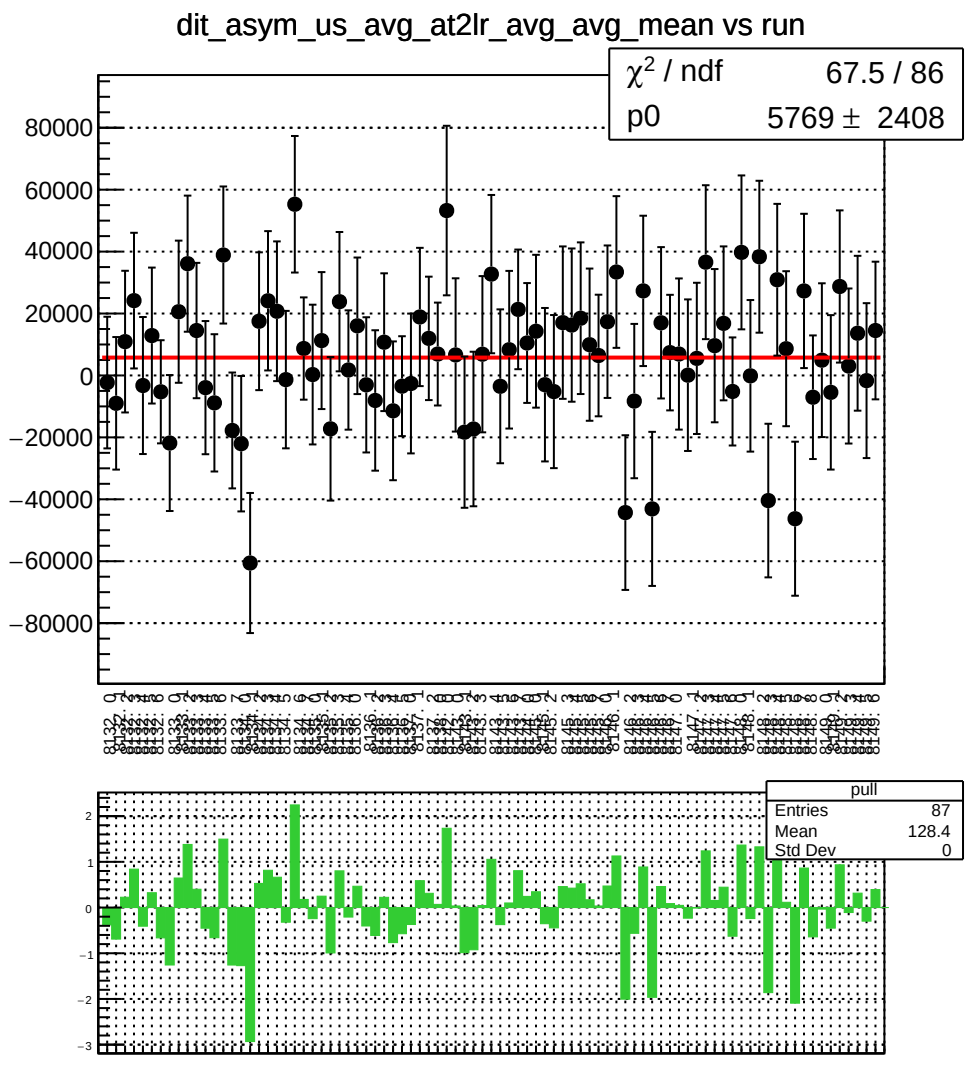

asym_us_avg_at2lr_avg_avg_cor_correction_rms vs run
χ² / ndf 1.061e+04 / 86
p0 1.198e+04 ± 9.162
18000
17000
16000
15000
14000
13000
12000
11000
10000

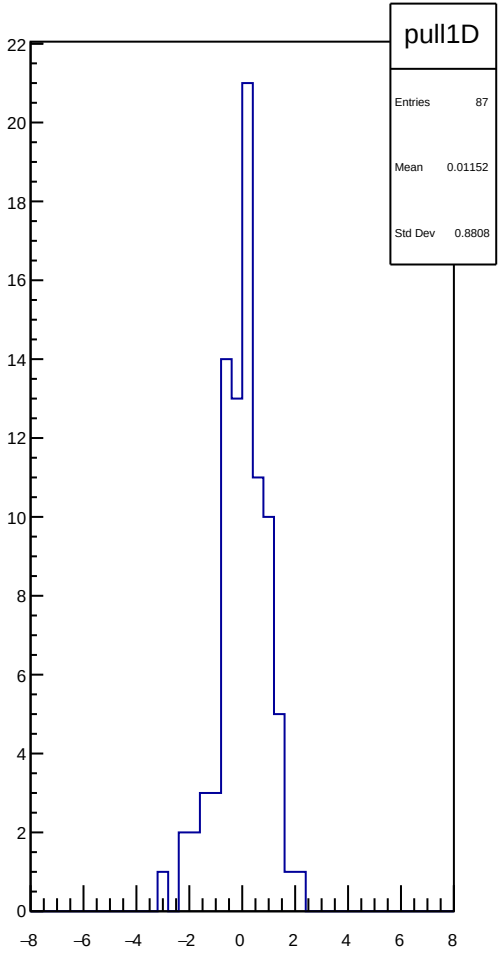

eigen_cor_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 64.21 / 86
p0 5266 ± 2384
pull
Entries 87
Mean 128.6
Std Dev 0
pull1D
Entries 87
Mean 0.01288
Std Dev 0.859

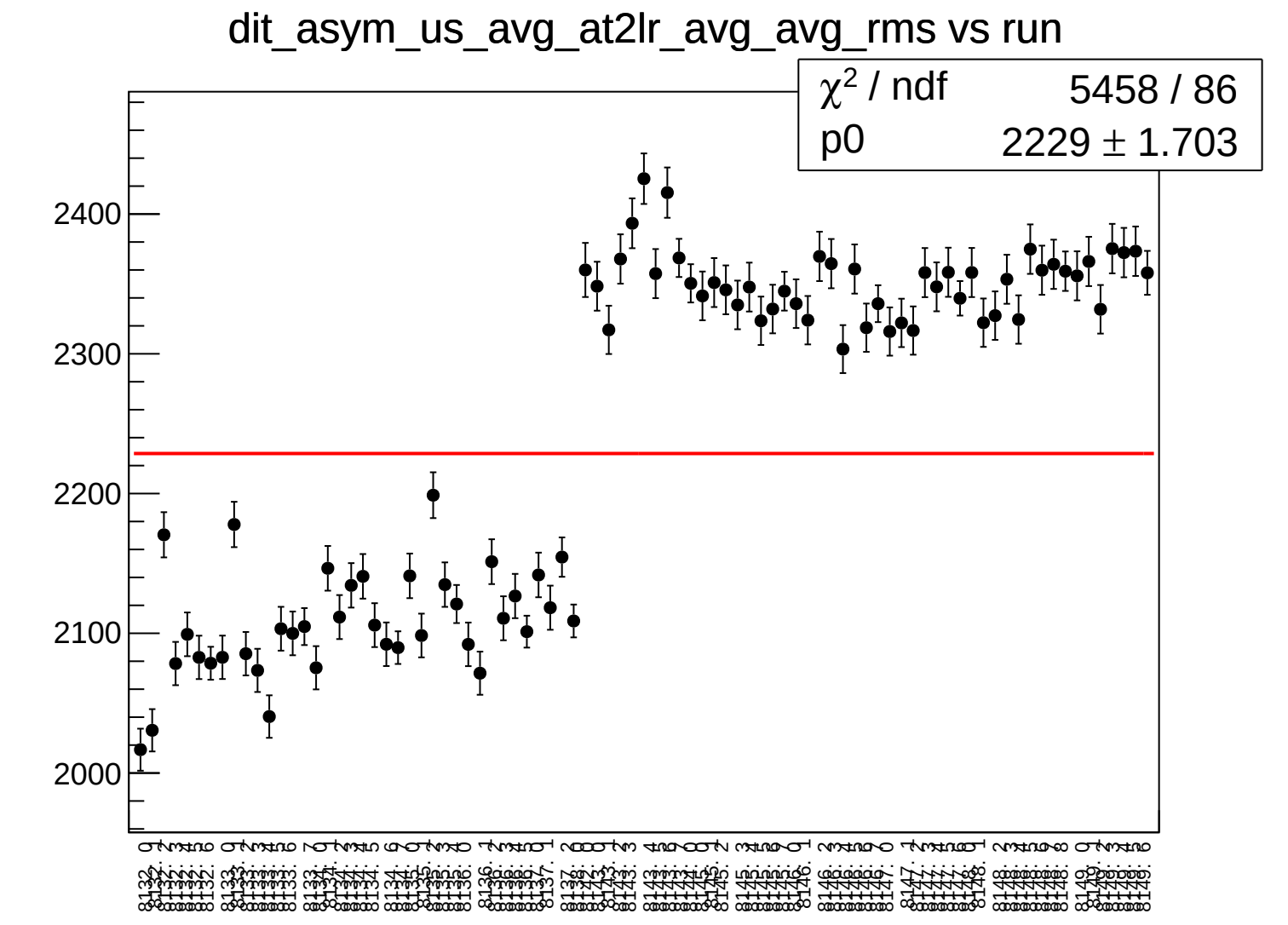

eigen_cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 5515 / 86
p0 2207 ± 1.686
2400
2300
2200
2100
2000

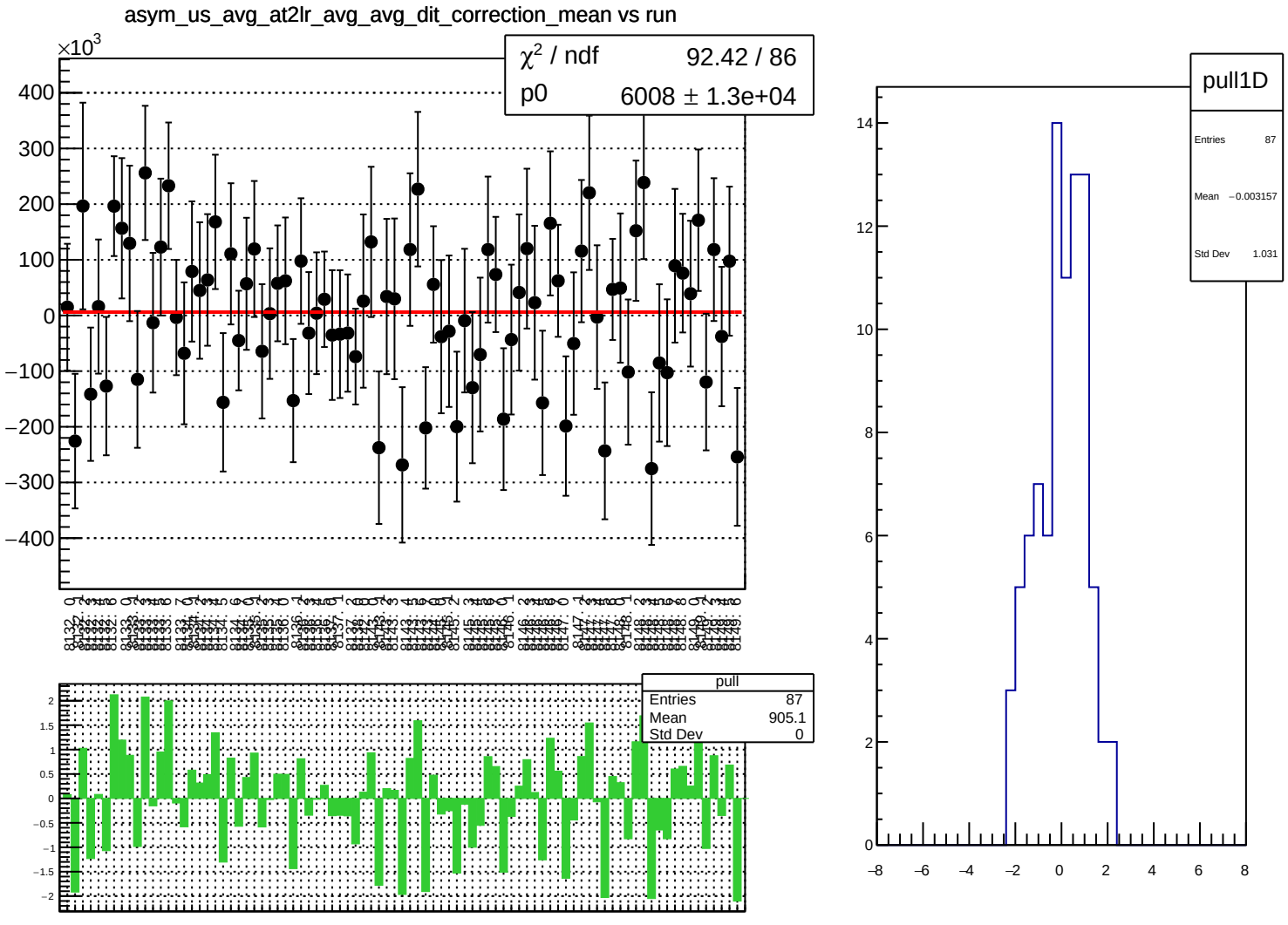

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 92.97 / 86
p0 5608 ± 1.296e+04
pull
Entries 87
Mean 850.8
Std Dev 0
pull1D
Entries 87
Mean −0.003382
Std Dev 1.034

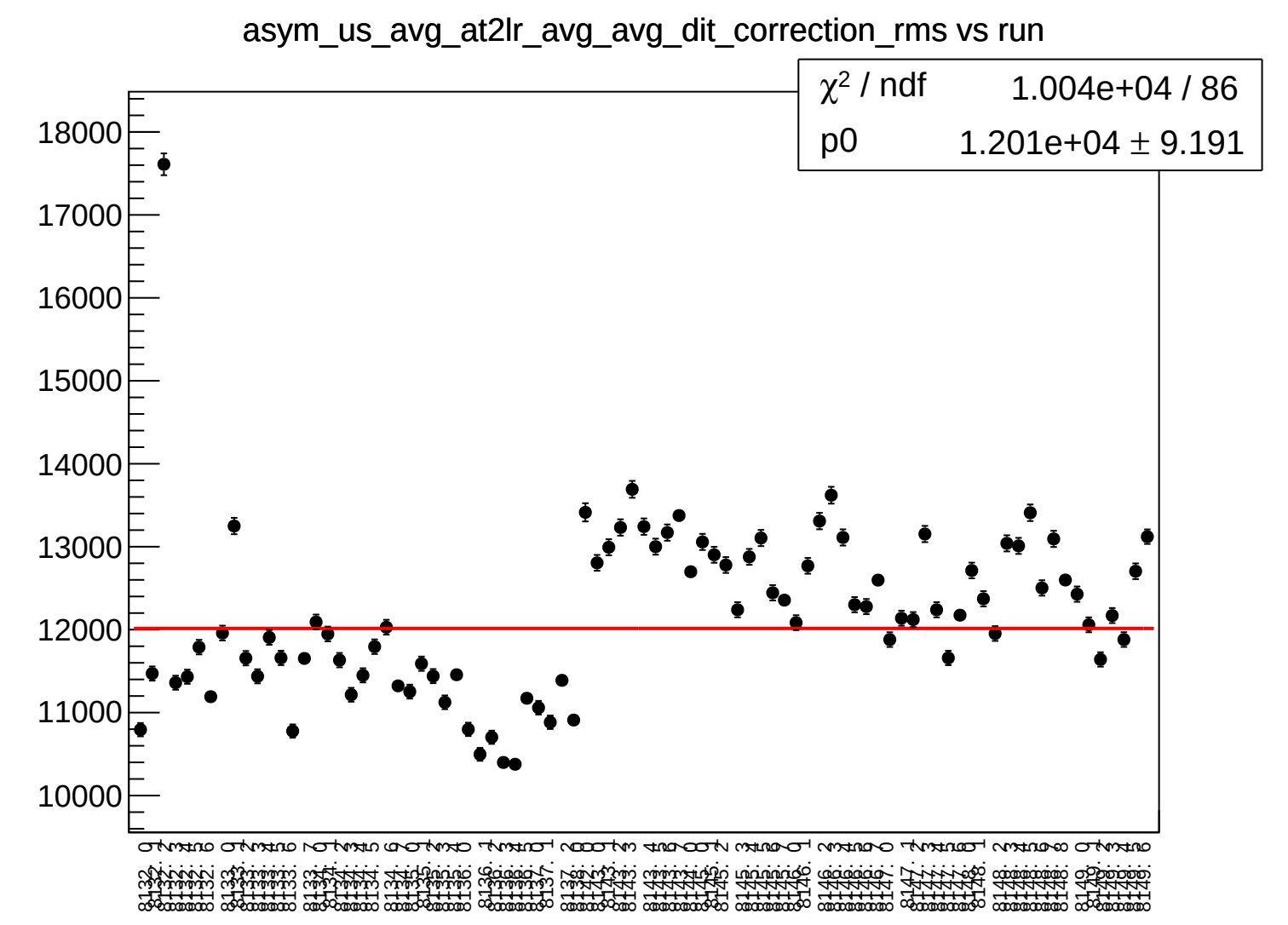

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.061e+04 / 86
p0 1.198e+04 ± 9.162
18000
17000
16000
15000
14000
13000
12000
11000
10000

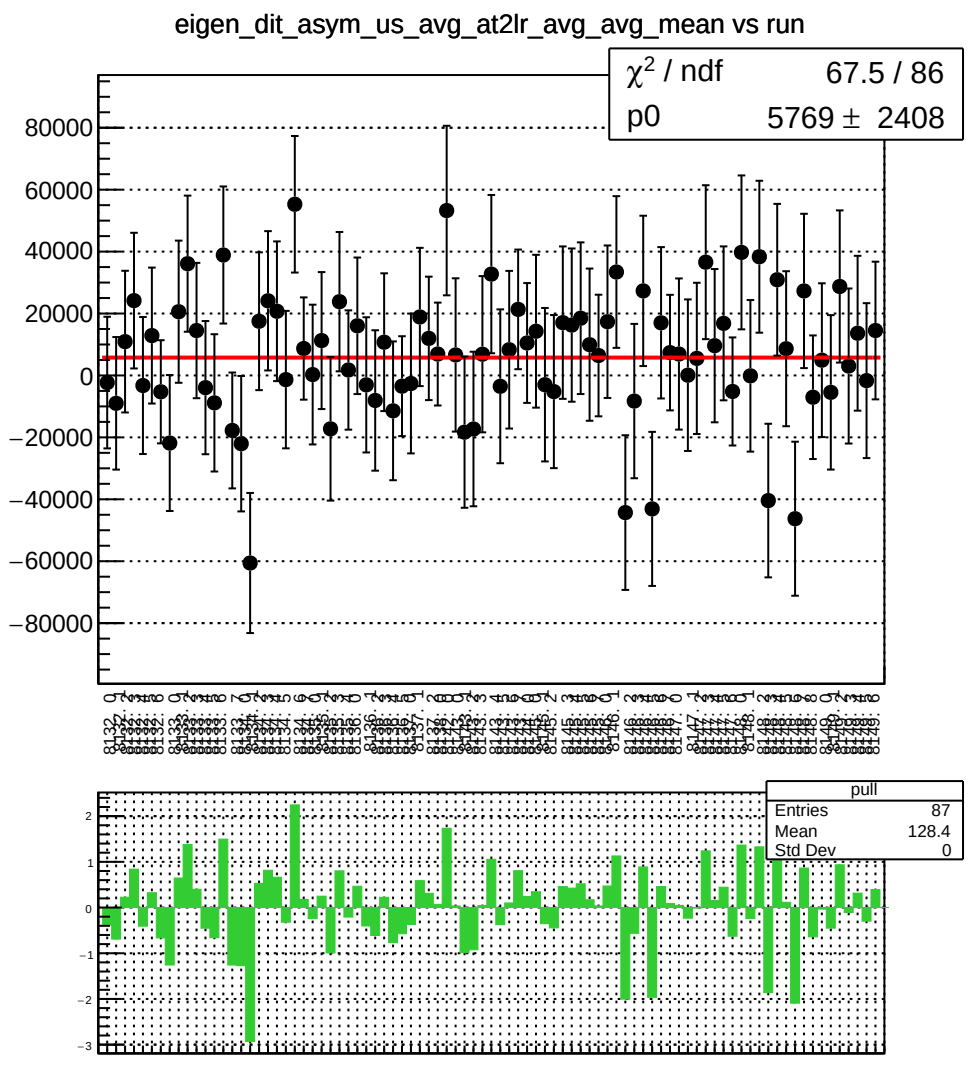

dit_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 67.5 / 86
p0 5769 ± 2408
pull
Entries 87
Mean 128.4
Std Dev 0

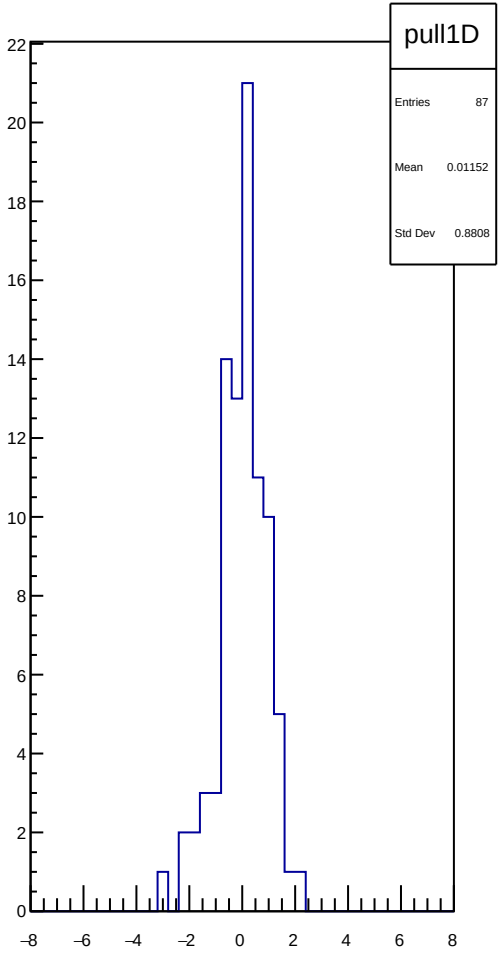

pull1D
Entries 87
Mean 0.01152
Std Dev 0.8808

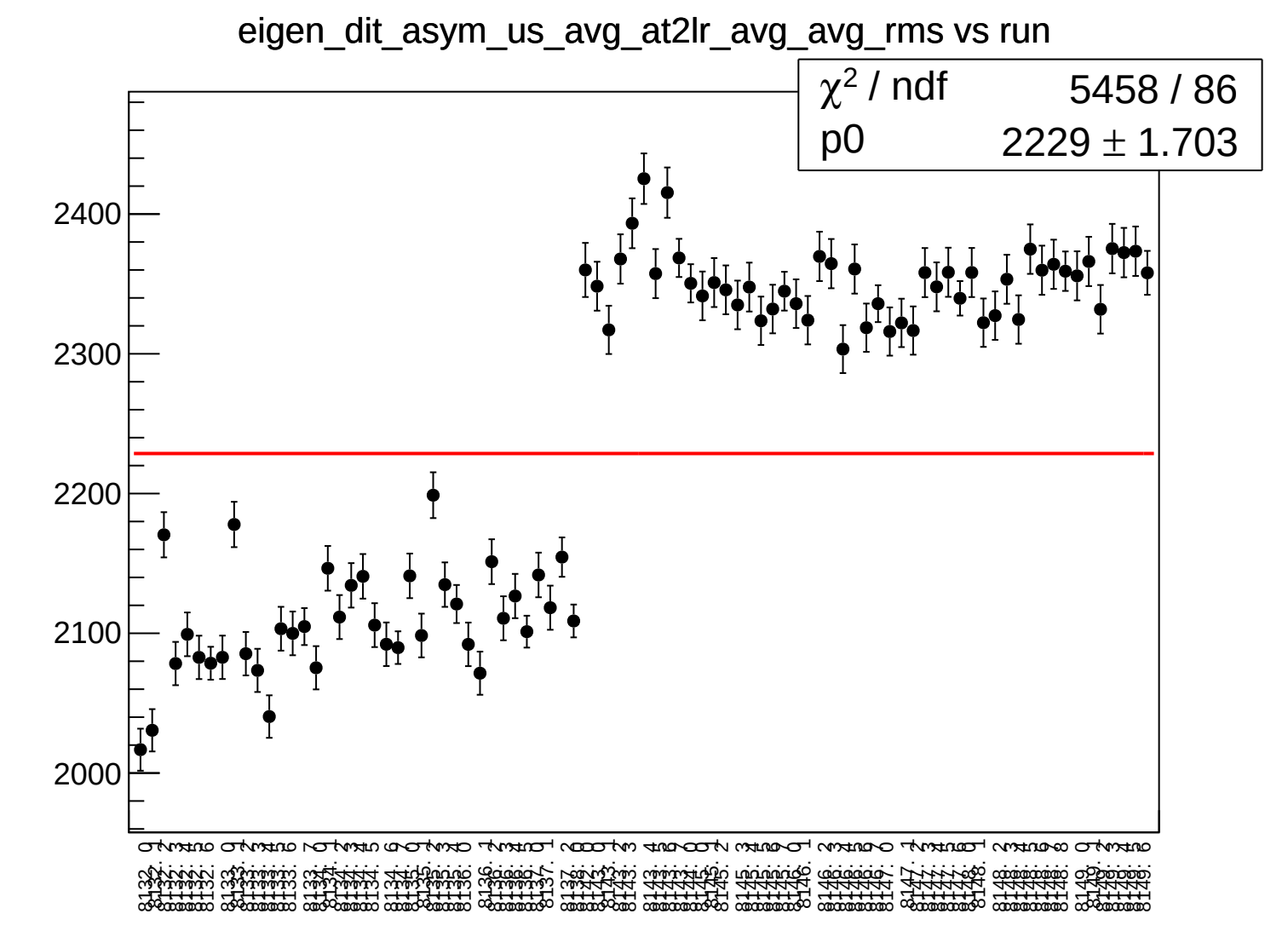

dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 5458 / 86
p0 2229 ± 1.703
2400
2300
2200
2100
2000

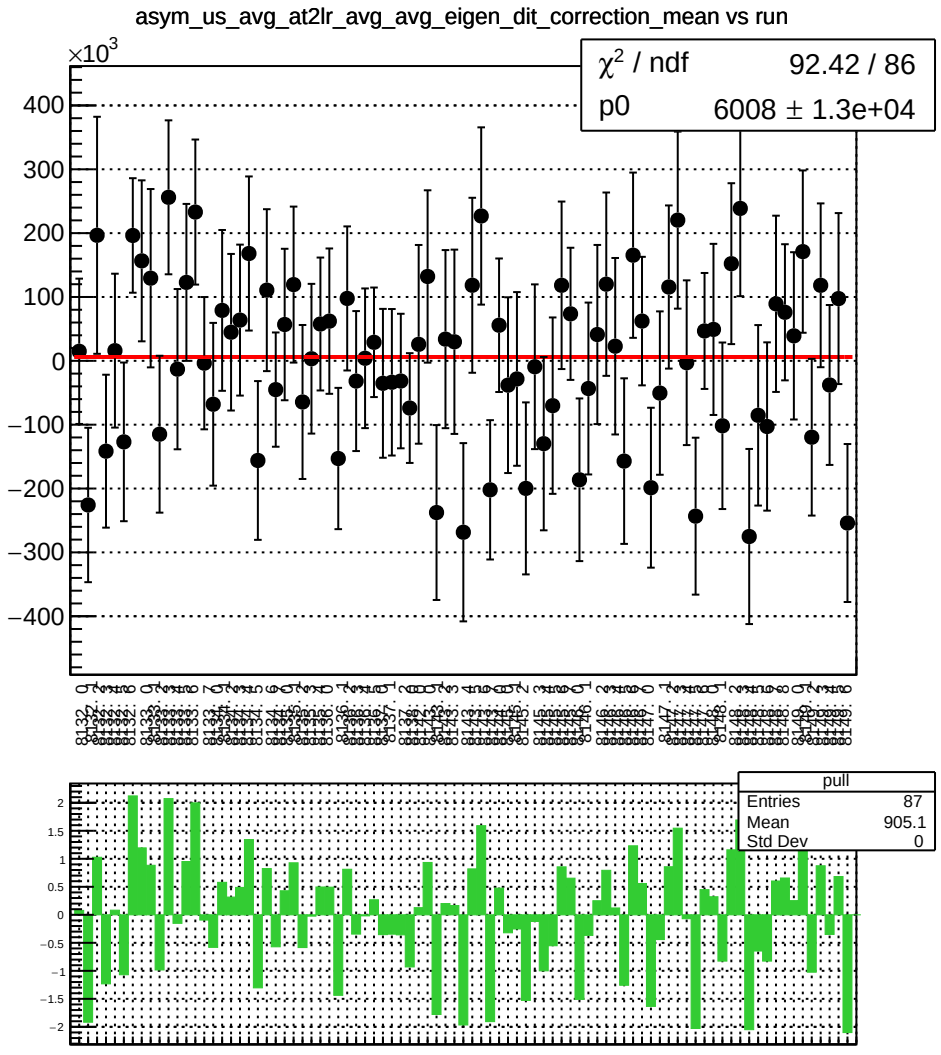

asym_us_avg_at2lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 92.42 / 86
p0 6008 ± 1.3e+04
pull
Entries 87
Mean 905.1
Std Dev 0
pull1D
Entries 87
Mean −0.003157
Std Dev 1.031

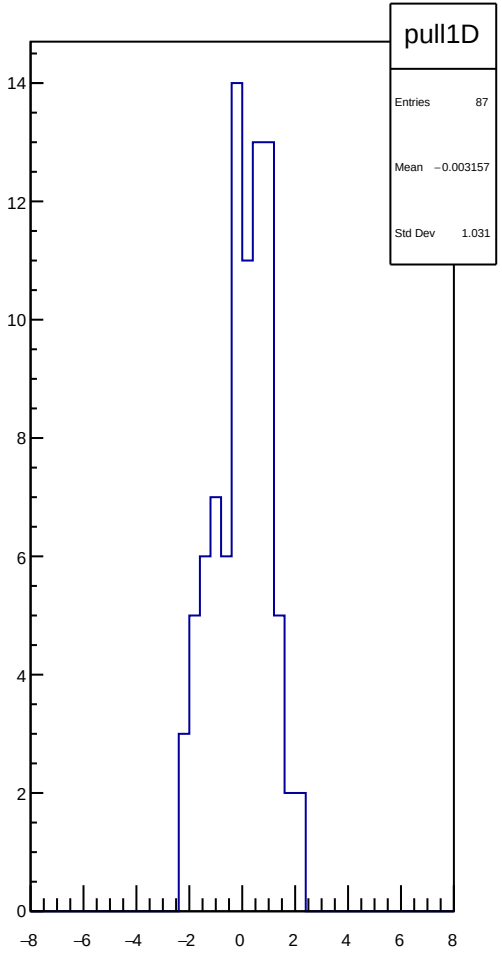

asym_us_avg_at2lr_avg_avg_dit_correction_rms vs run
χ² / ndf 1.004e+04 / 86
p0 1.201e+04 ± 9.191
18000
17000
16000
15000
14000
13000
12000
11000
10000

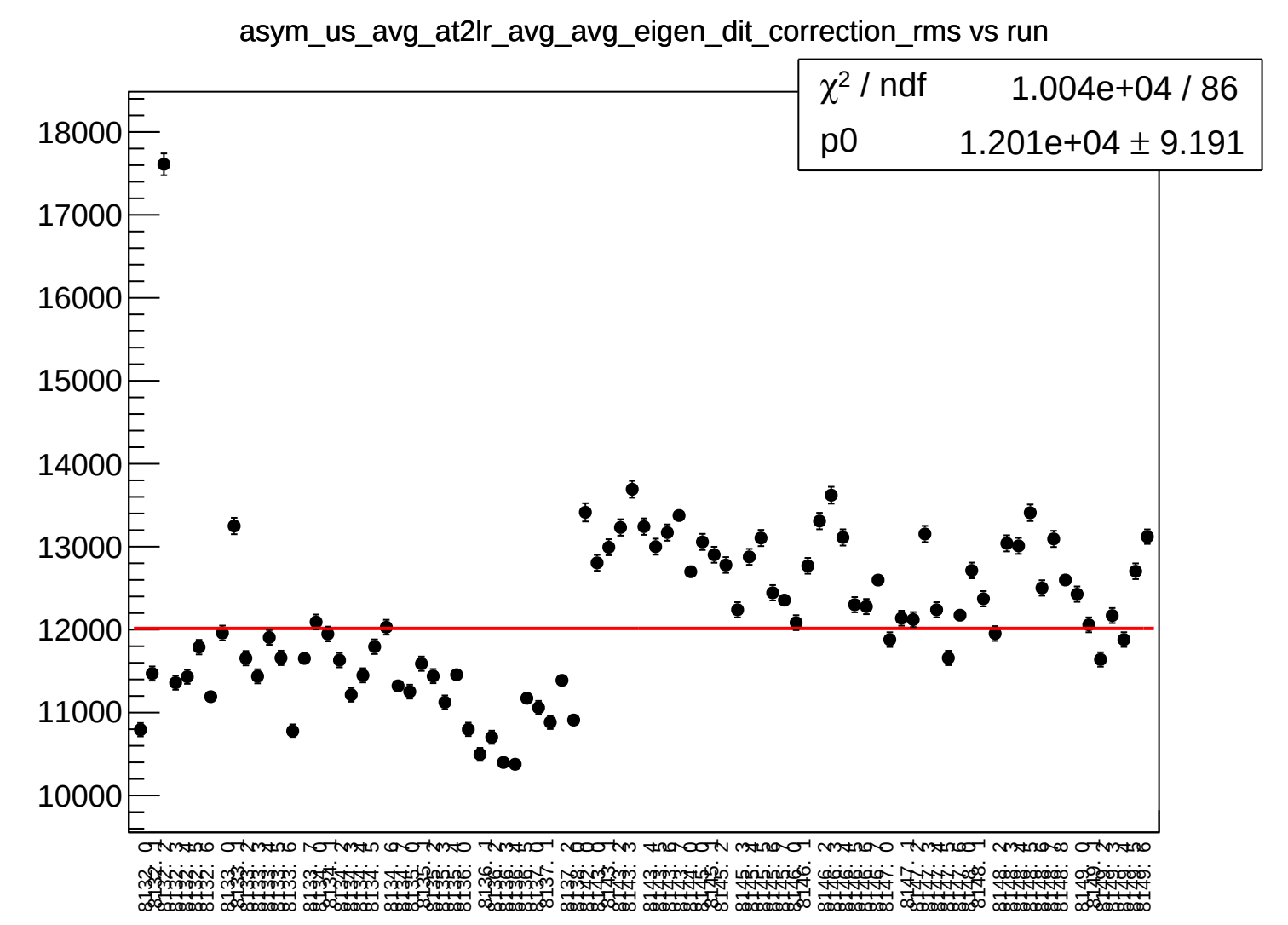

eigen_dit_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 67.5 / 86
p0 5769 ± 2408
pull
Entries 87
Mean 128.4
Std Dev 0

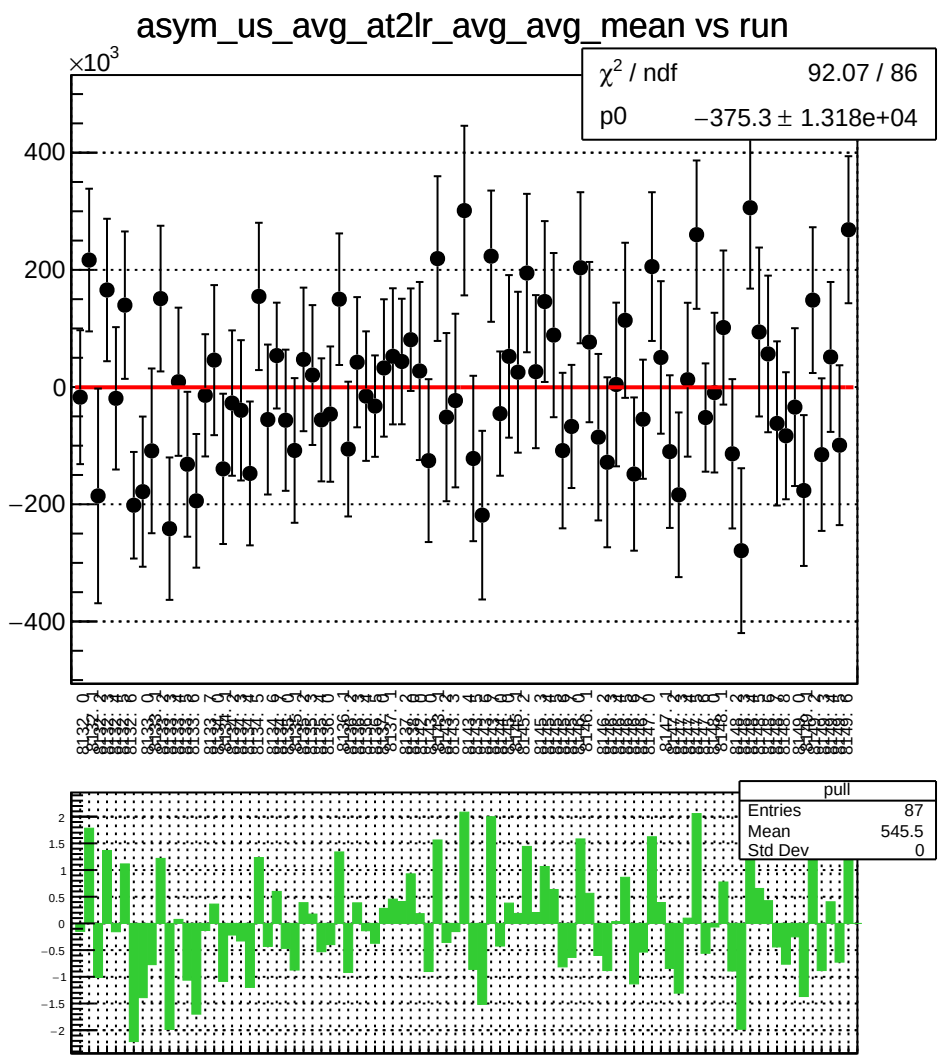

pull1D
Entries 87
Mean 0.01152
Std Dev 0.8808

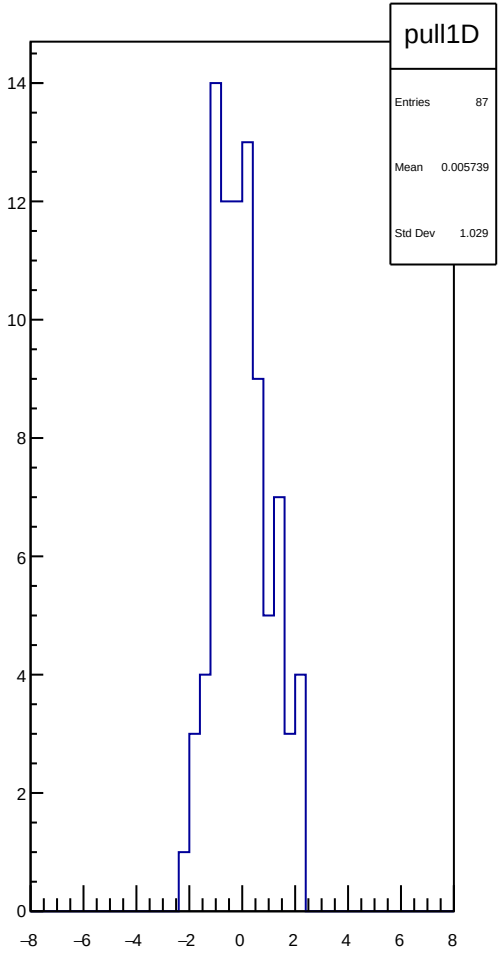

eigen_dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 5458 / 86
p0 2229 ± 1.703
2400
2300
2200
2100
2000

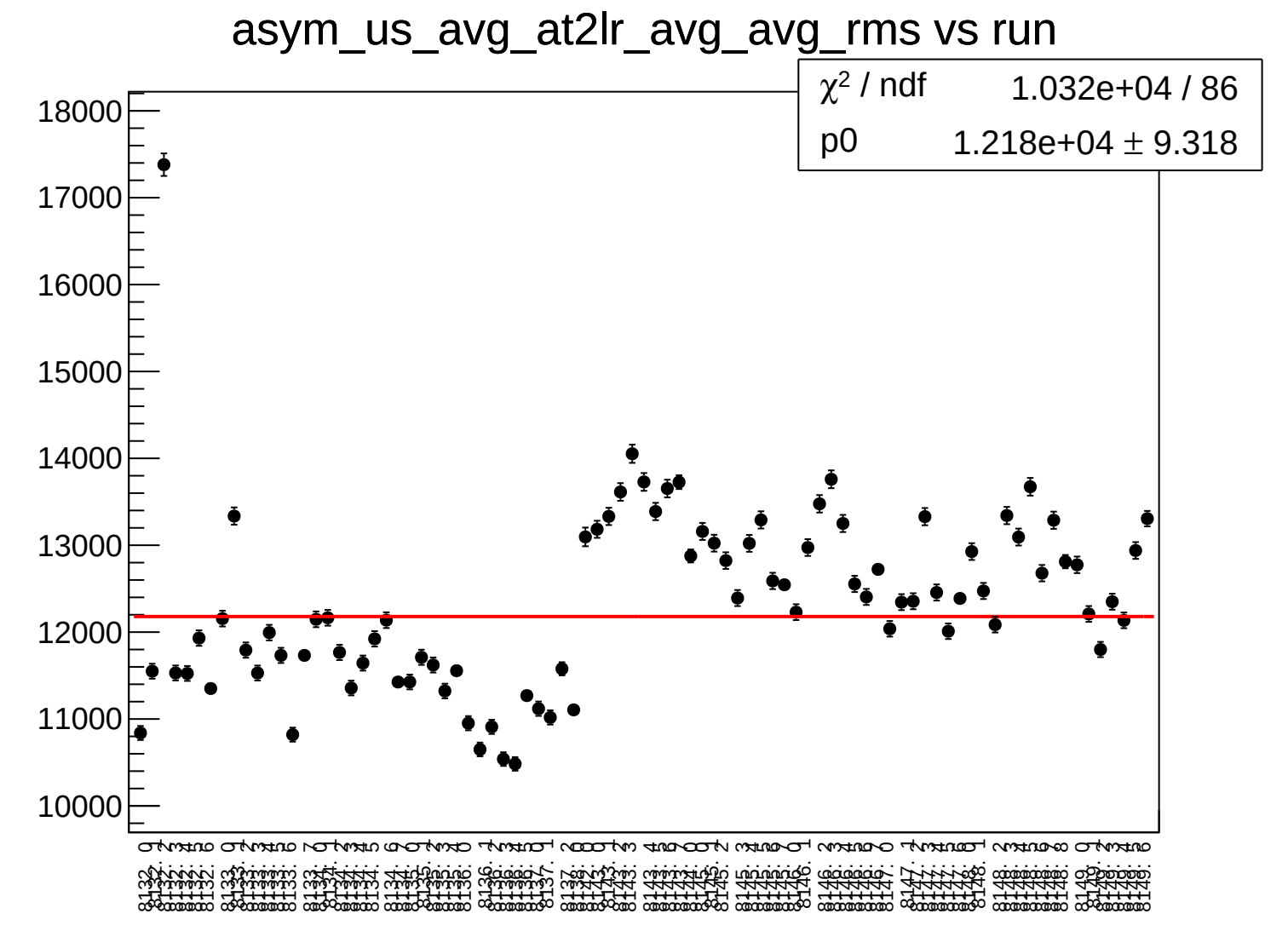

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 92.42 / 86
p0 6008 ± 1.3e+04
pull
Entries 87
Mean 905.1
Std Dev 0

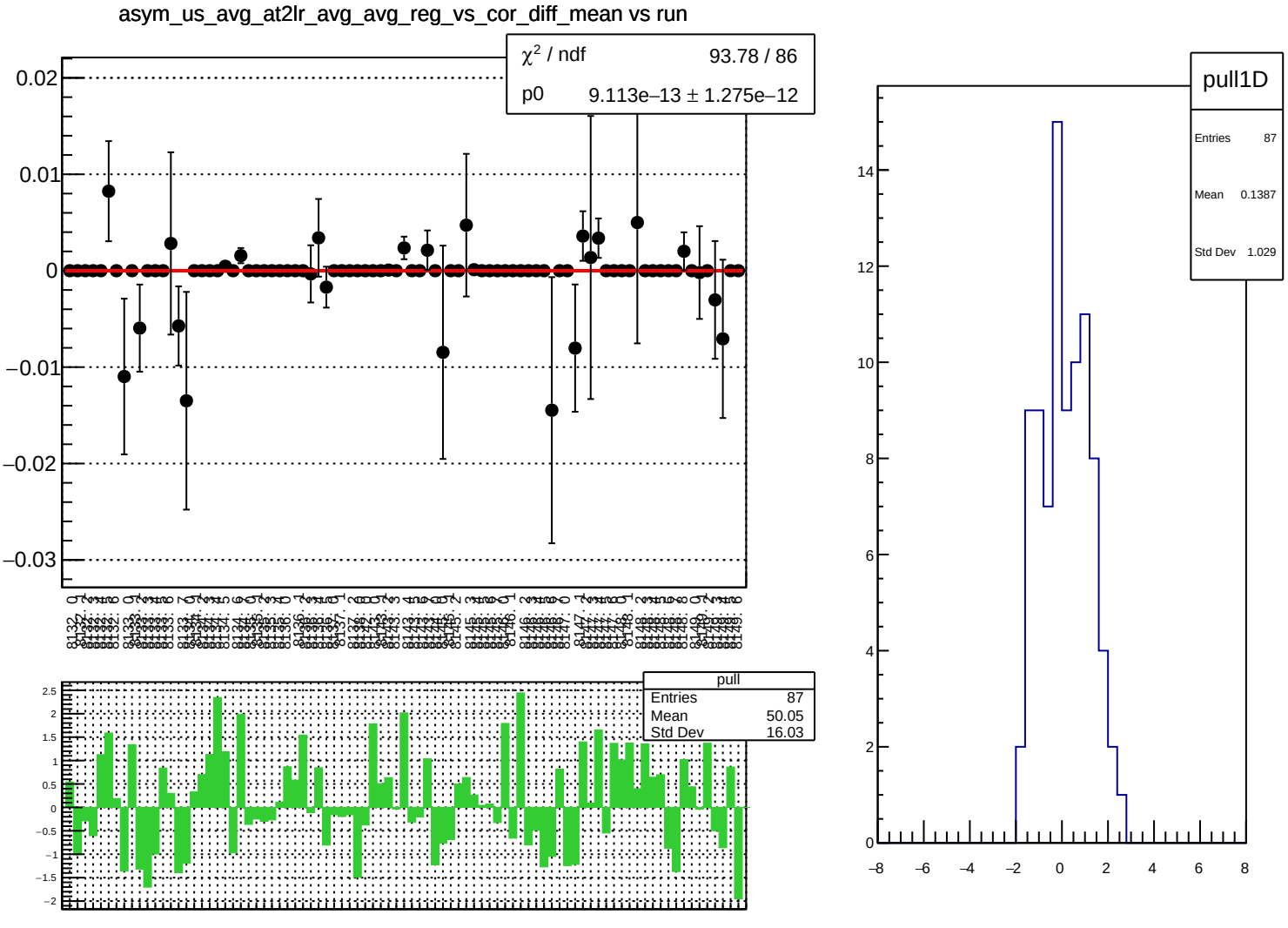

pull1D
Entries 87
Mean −0.003157
Std Dev 1.031

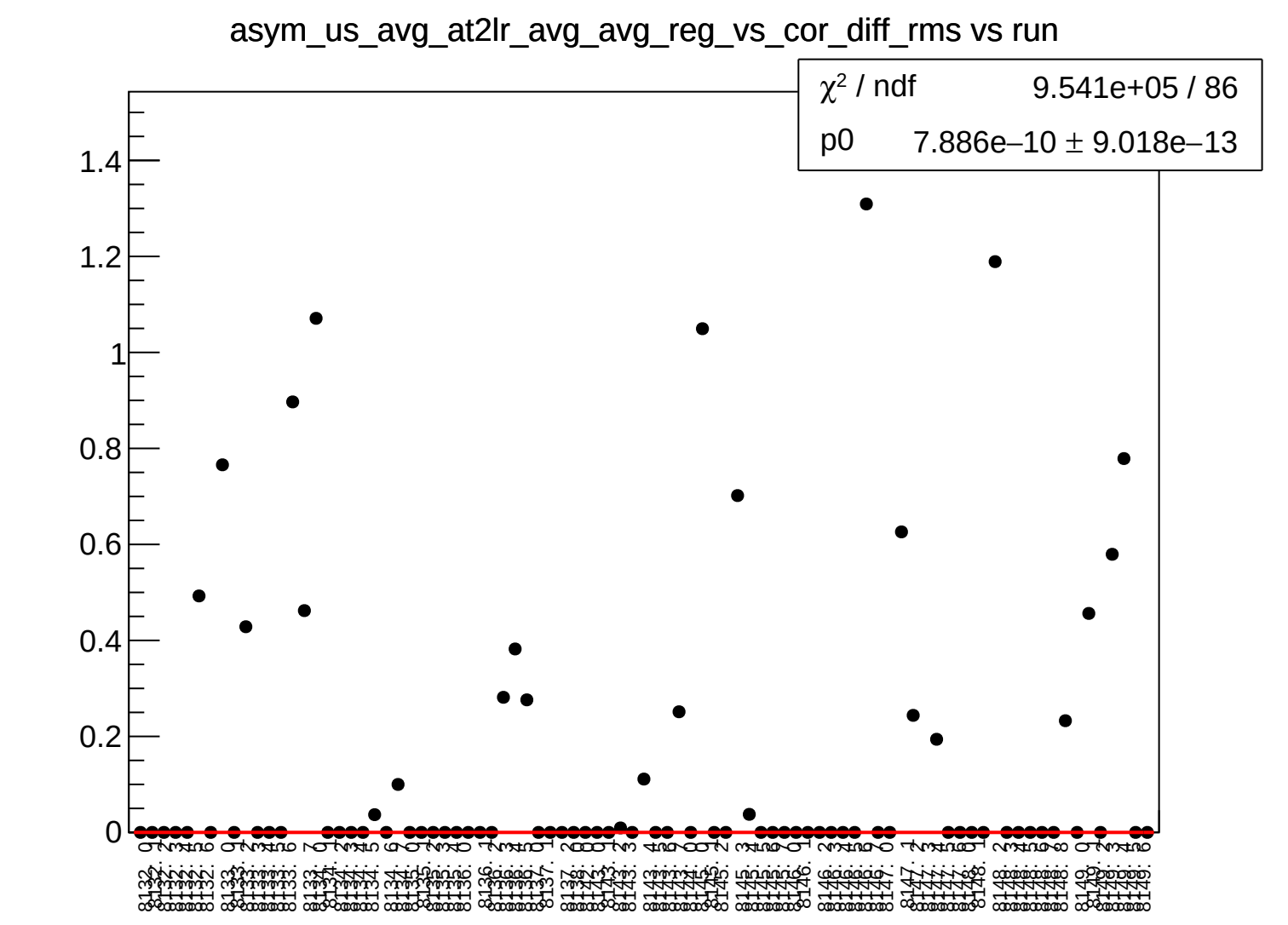

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.004e+04 / 86
p0 1.201e+04 ± 9.191
18000
17000
16000
15000
14000
13000
12000
11000
10000

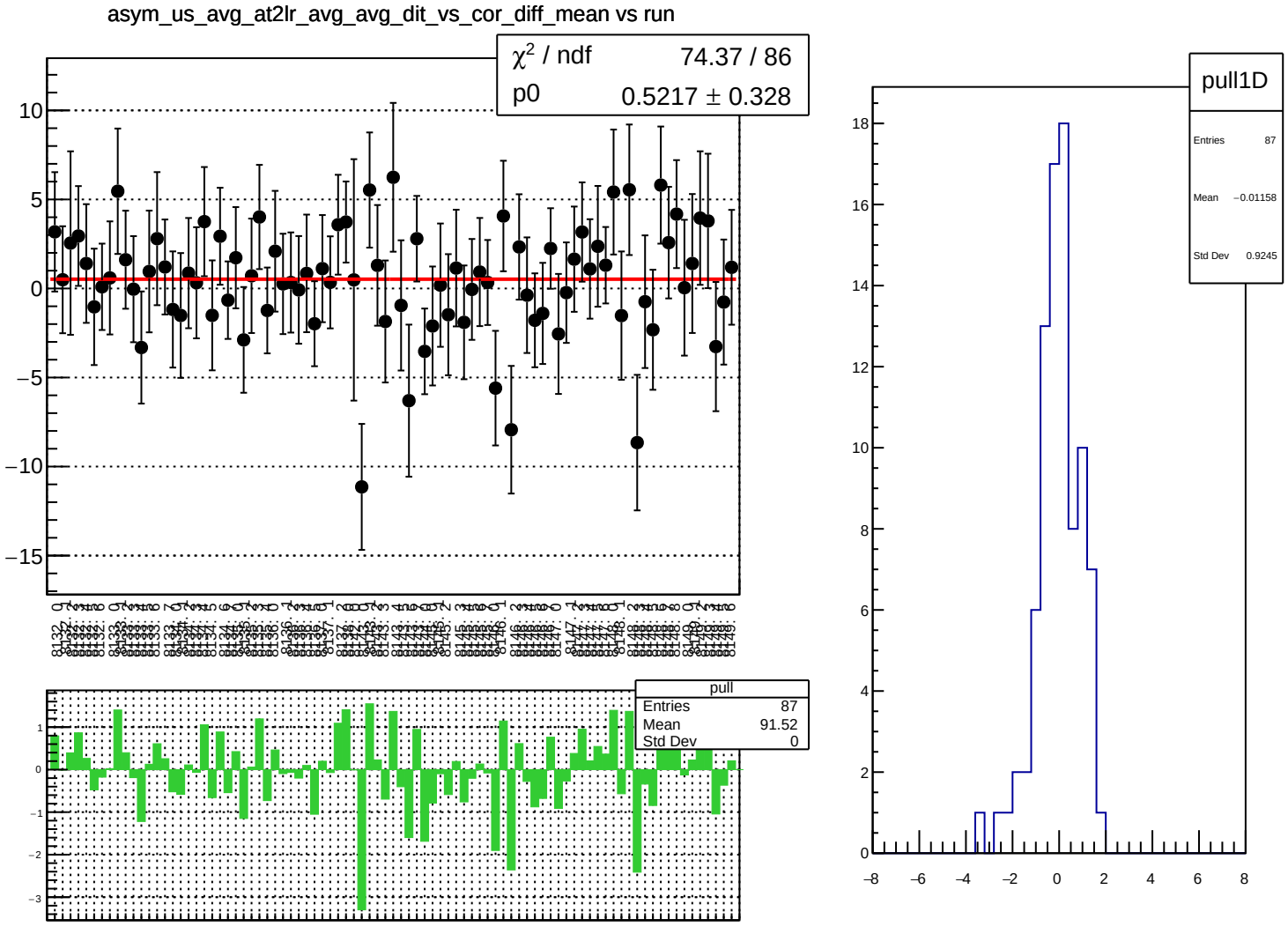

asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 92.07 / 86
p0 −375.3 ± 1.318e+04
400
200
0
−200
−400
pull
Entries 87
Mean 545.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

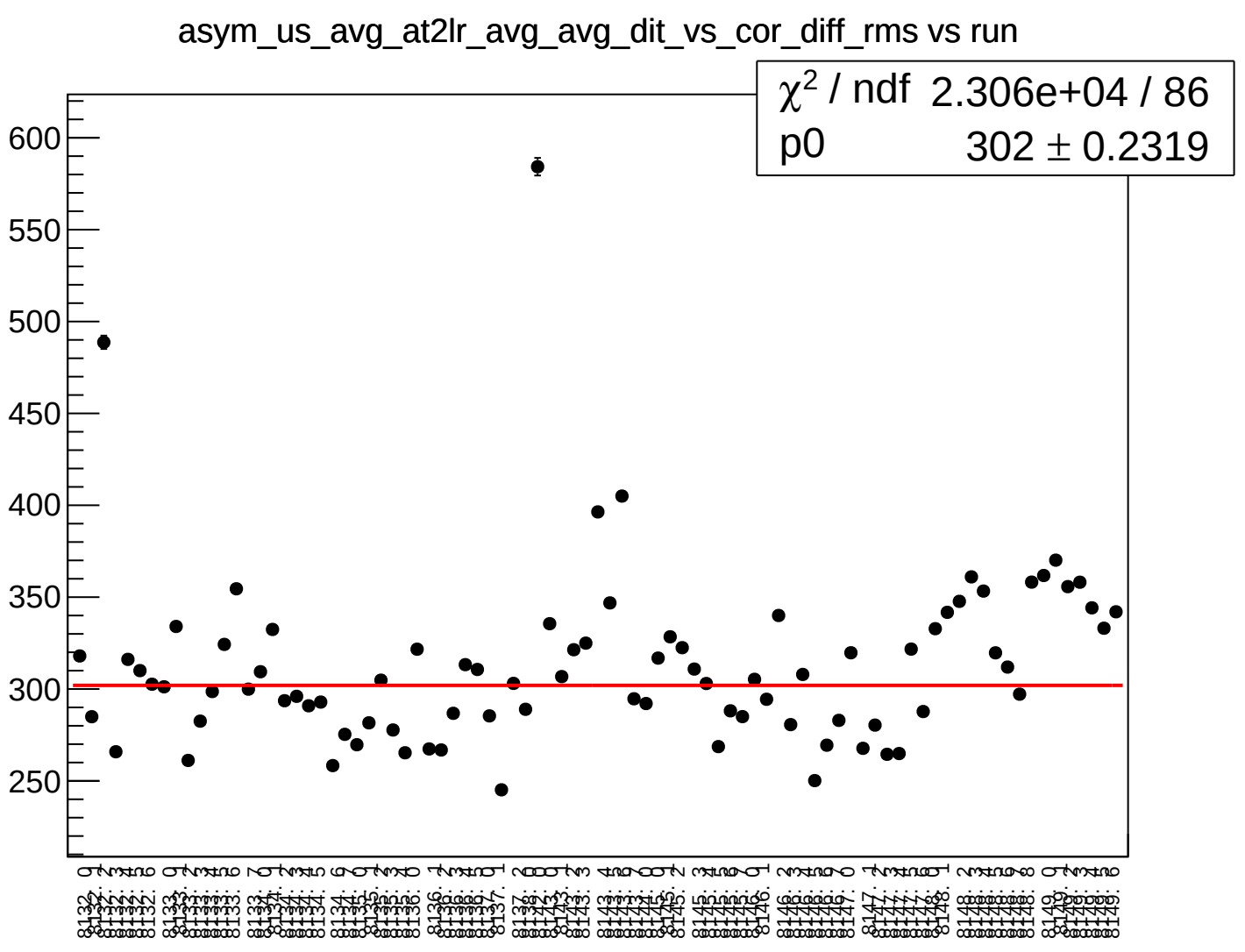

pull1D
Entries 87
Mean 0.005739
Std Dev 1.029
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

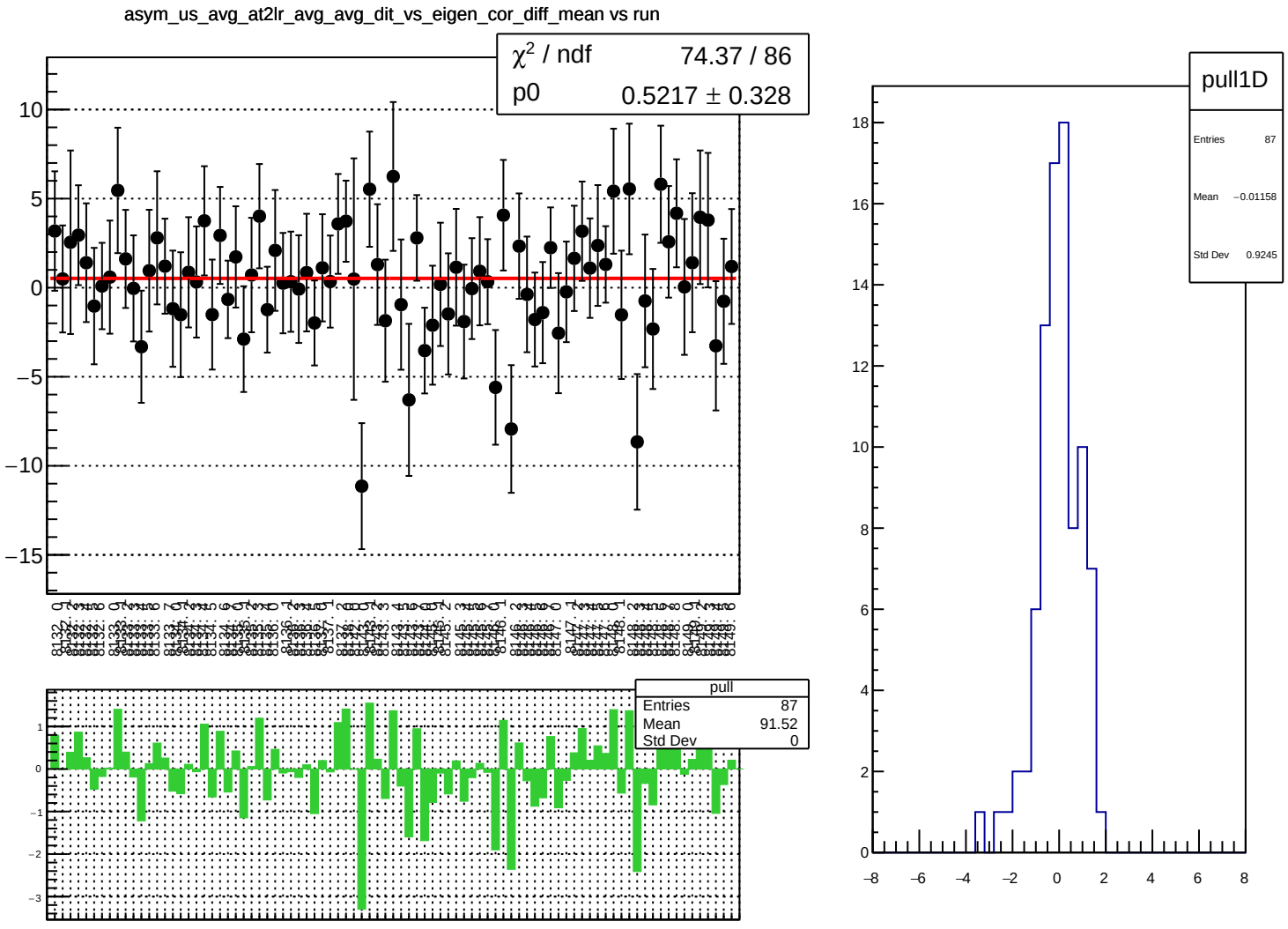

asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 1.032e+04 / 86
p0 1.218e+04 ± 9.318
18000
17000
16000
15000
14000
13000
12000
11000
10000

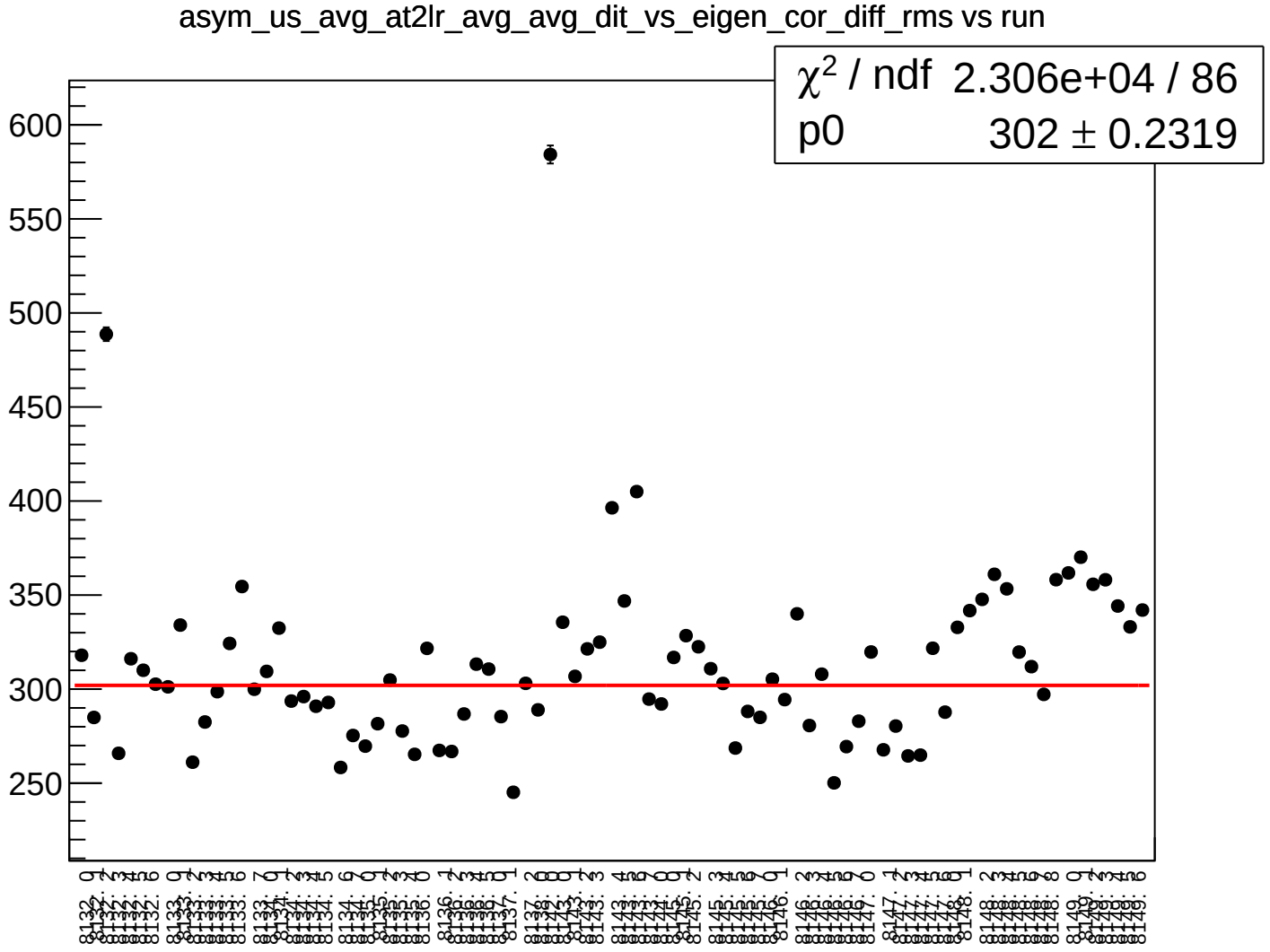

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 93.78 / 86
p0 9.113e−13 ± 1.275e−12
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 87
Mean 50.05
Std Dev 16.03
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 87
Mean 0.1387
Std Dev 1.029
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

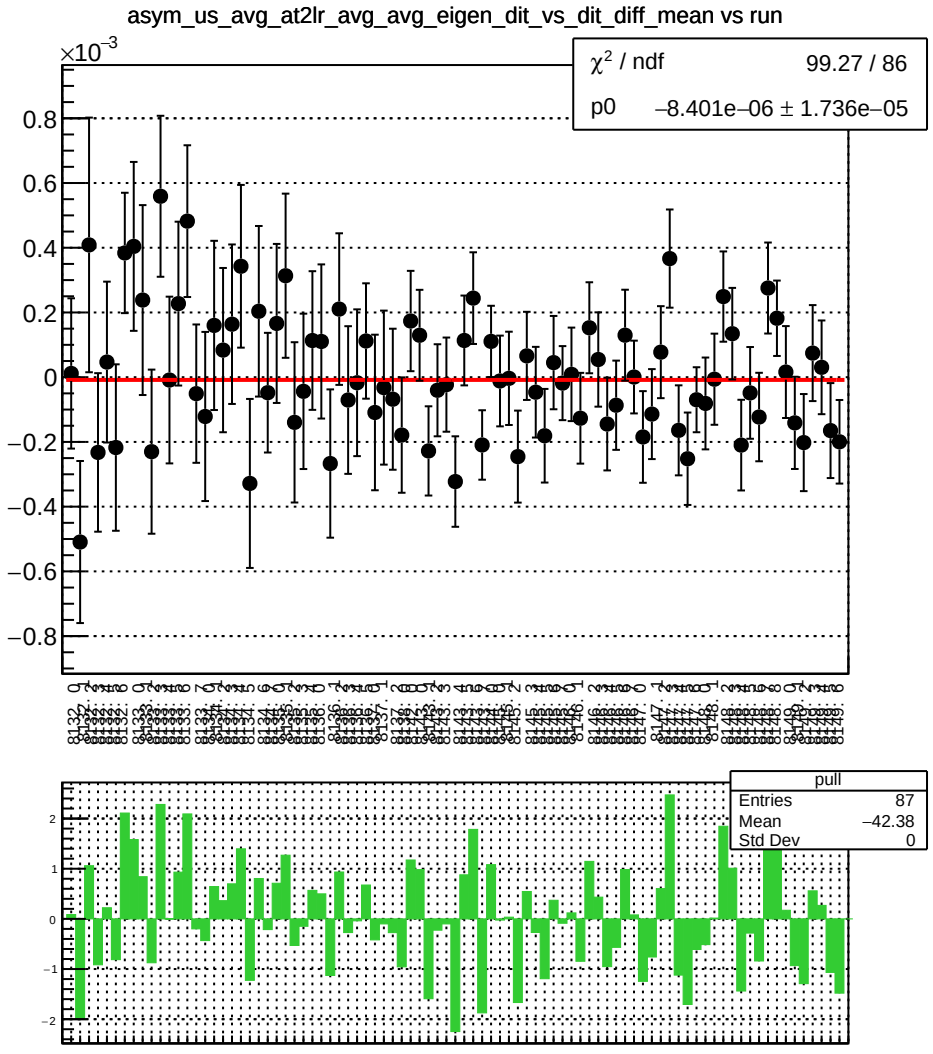

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.541e+05 / 86
p0 7.886e−10 ± 9.018e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

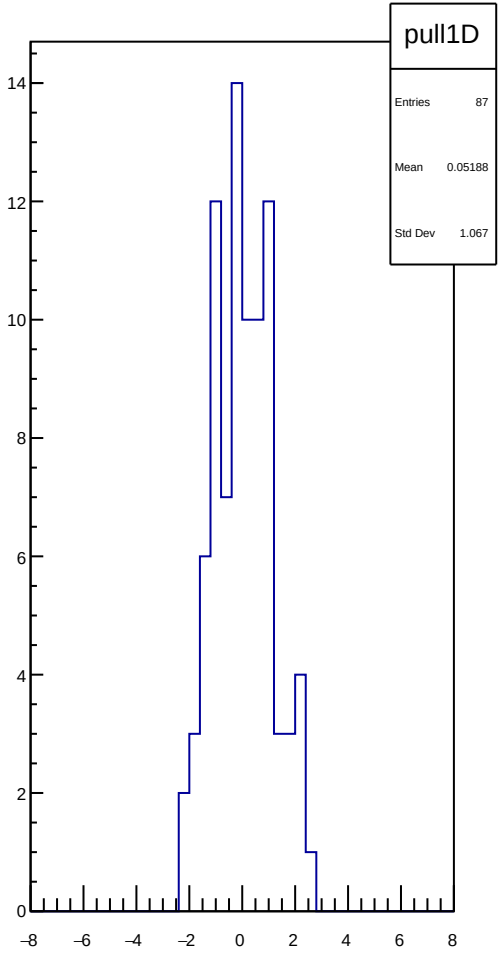

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 74.37 / 86
p0 0.5217 ± 0.328
pull
Entries 87
Mean 91.52
Std Dev 0
pull1D
Entries 87
Mean −0.01158
Std Dev 0.9245

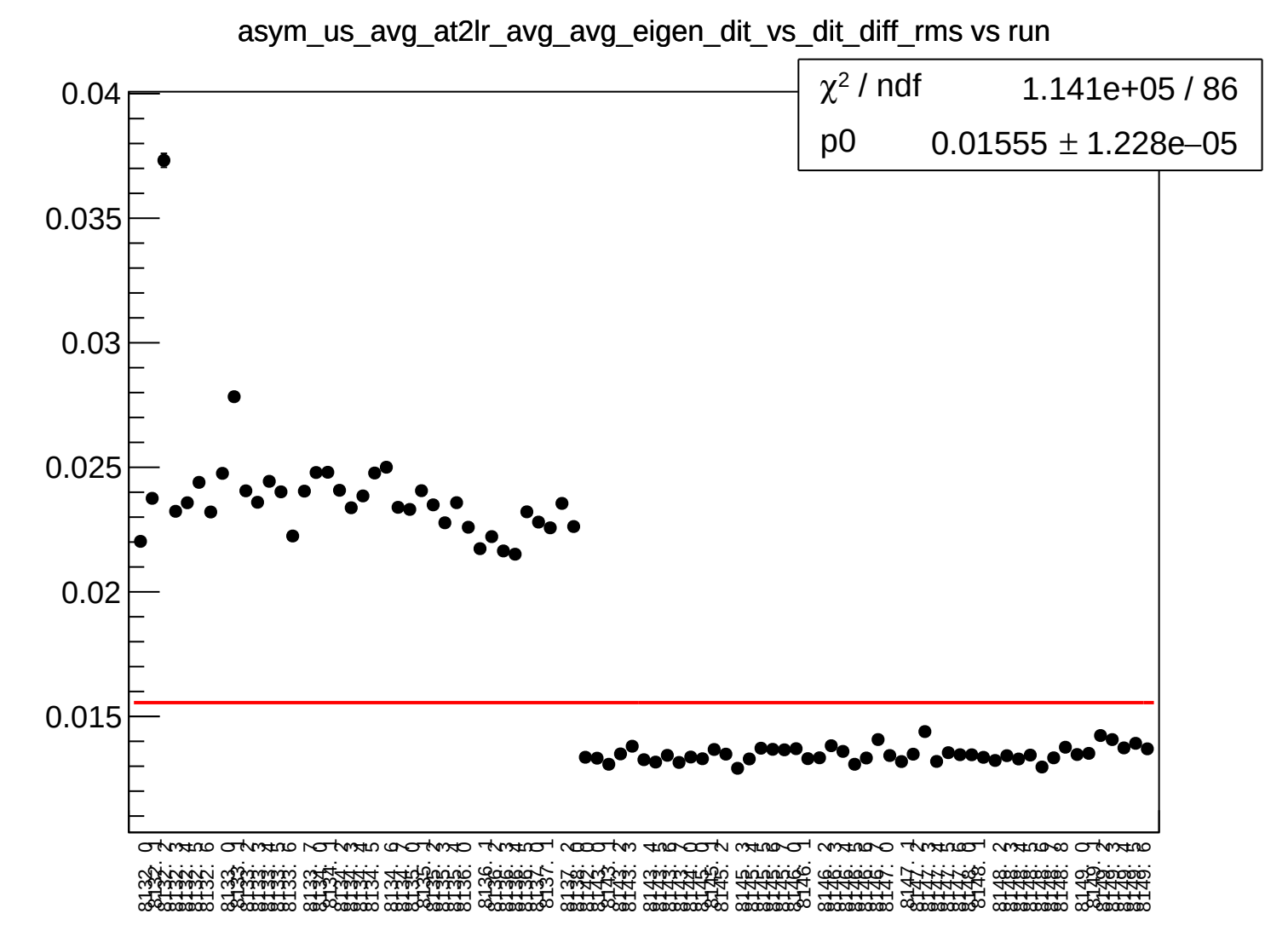

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.306e+04 / 86
p0 302 ± 0.2319
600
550
500
450
400
350
300
250

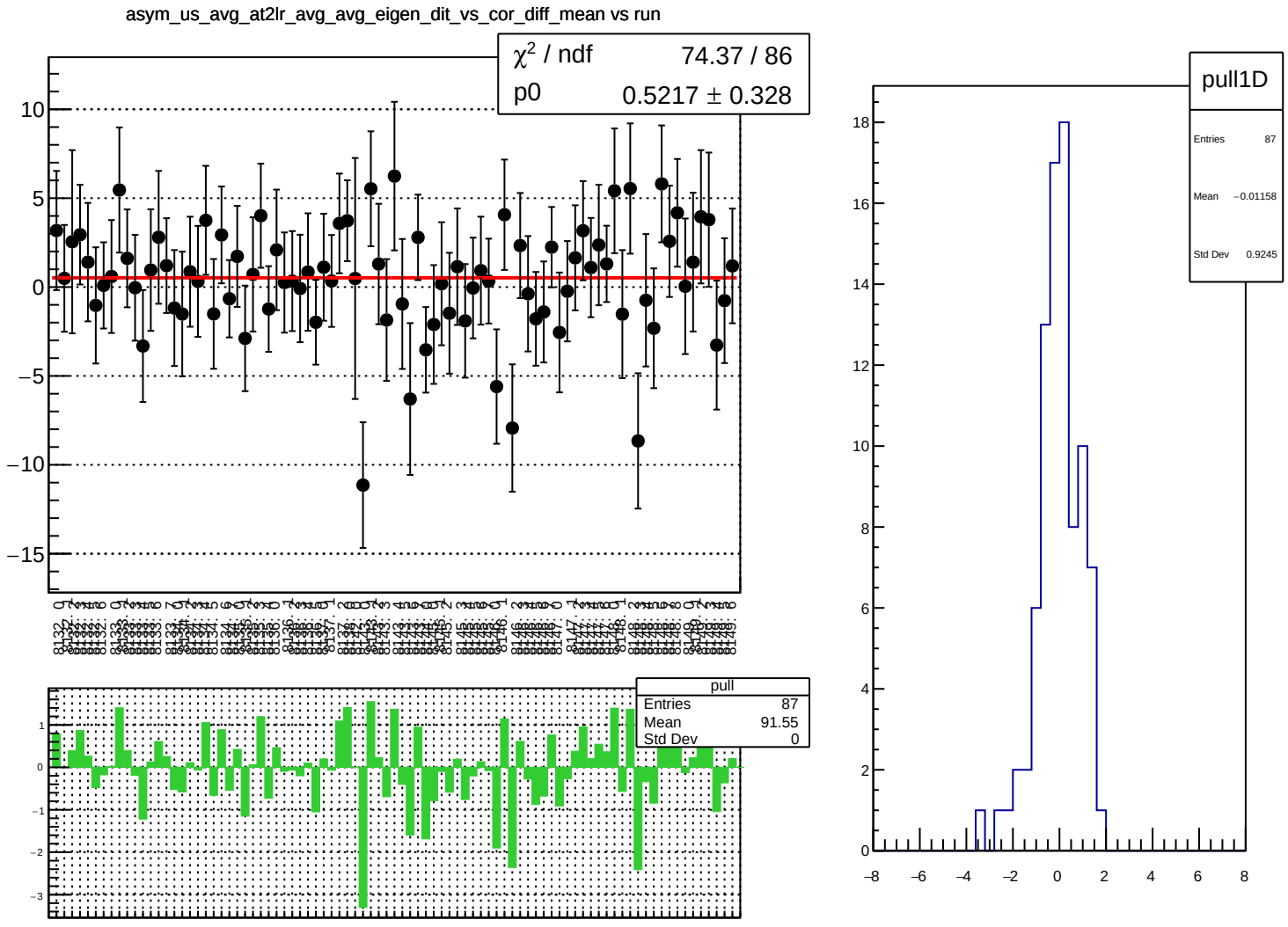

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.37 / 86
p0 0.5217 ± 0.328
pull
Entries 87
Mean 91.52
Std Dev 0
pull1D
Entries 87
Mean −0.01158
Std Dev 0.9245

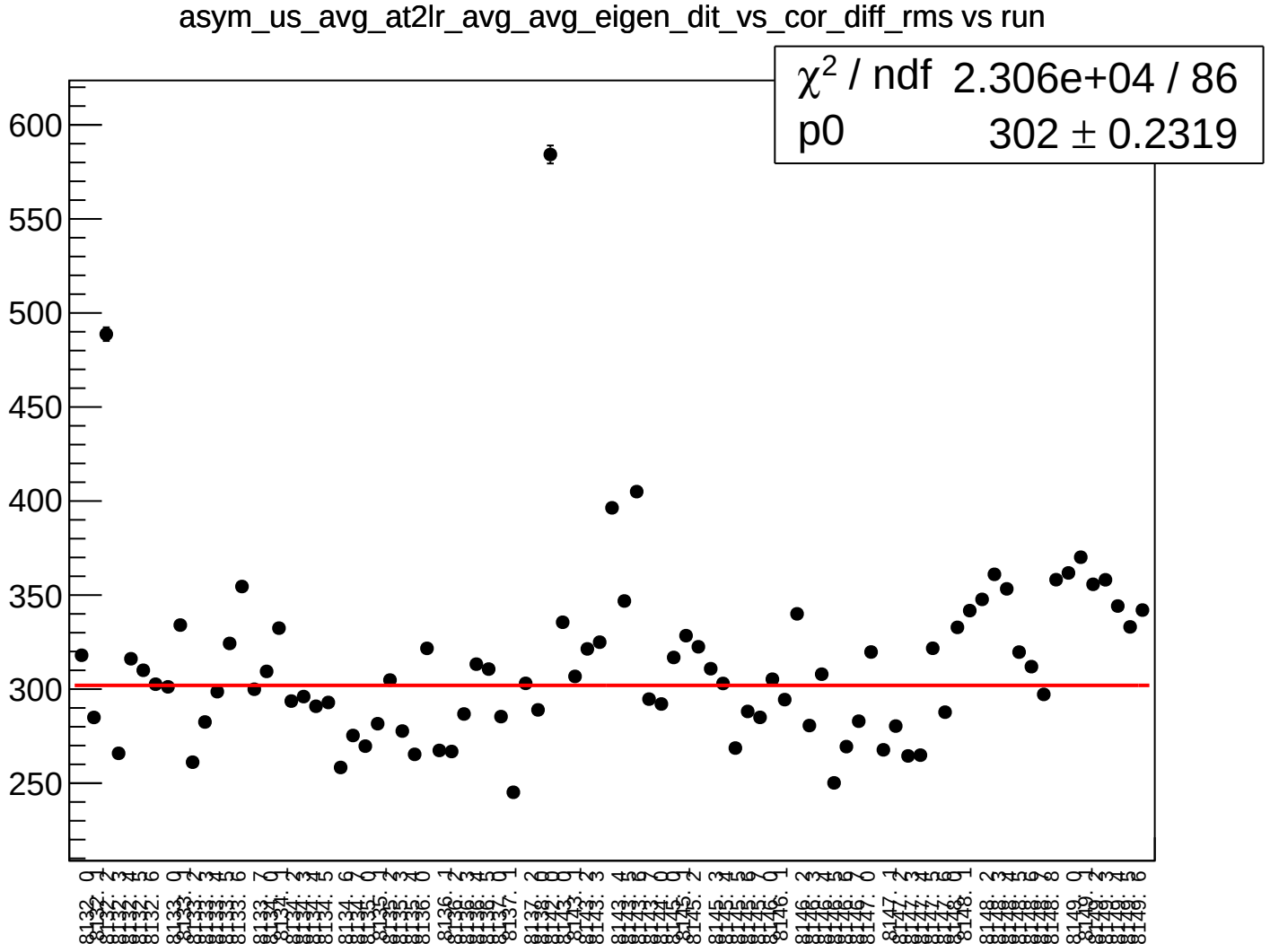

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.306e+04 / 86
p0 302 ± 0.2319
600
550
500
450
400
350
300
250

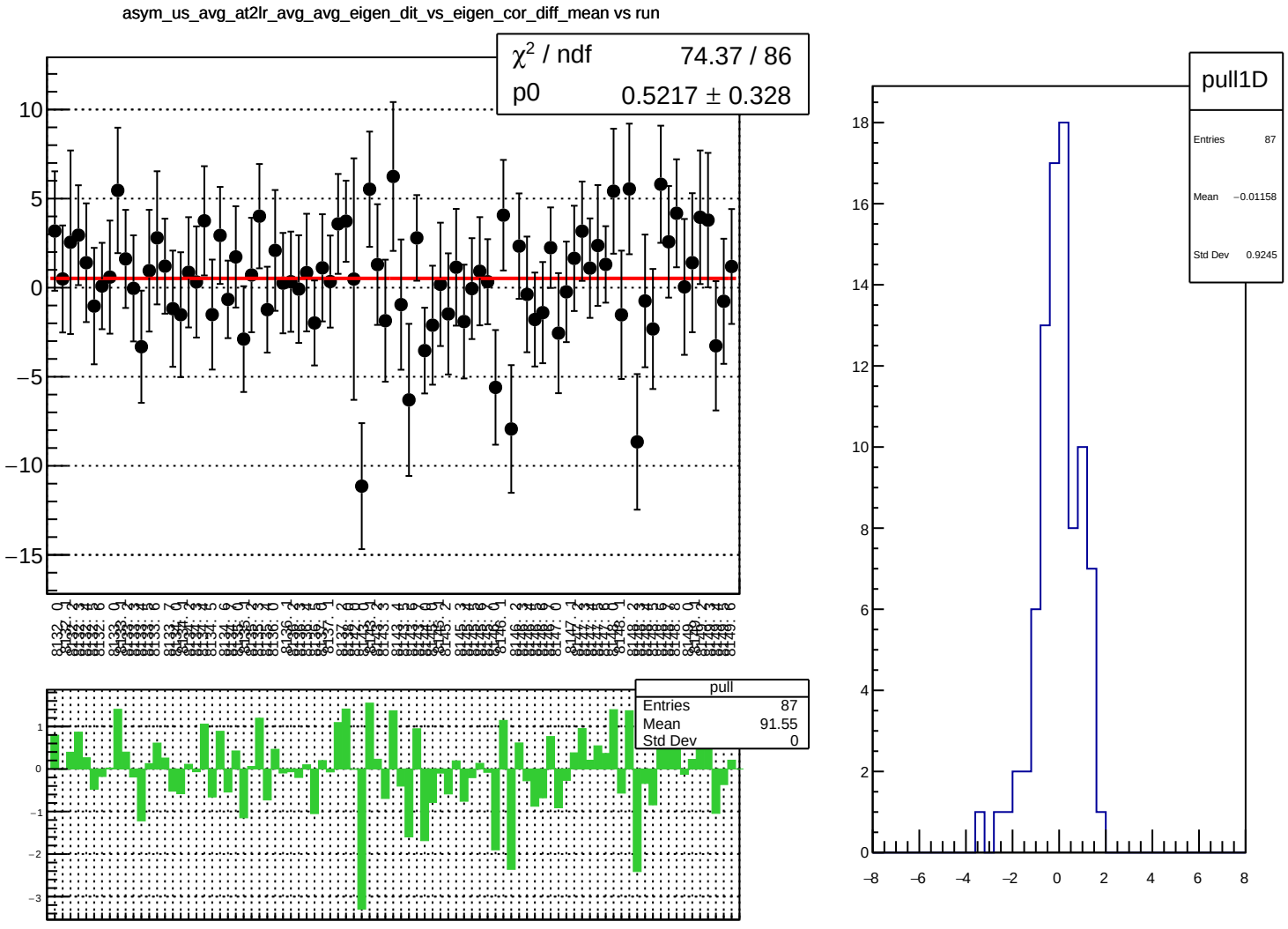

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.27 / 86
p0 −8.401e−06 ± 1.736e−05
pull
Entries 87
Mean −42.38
Std Dev 0

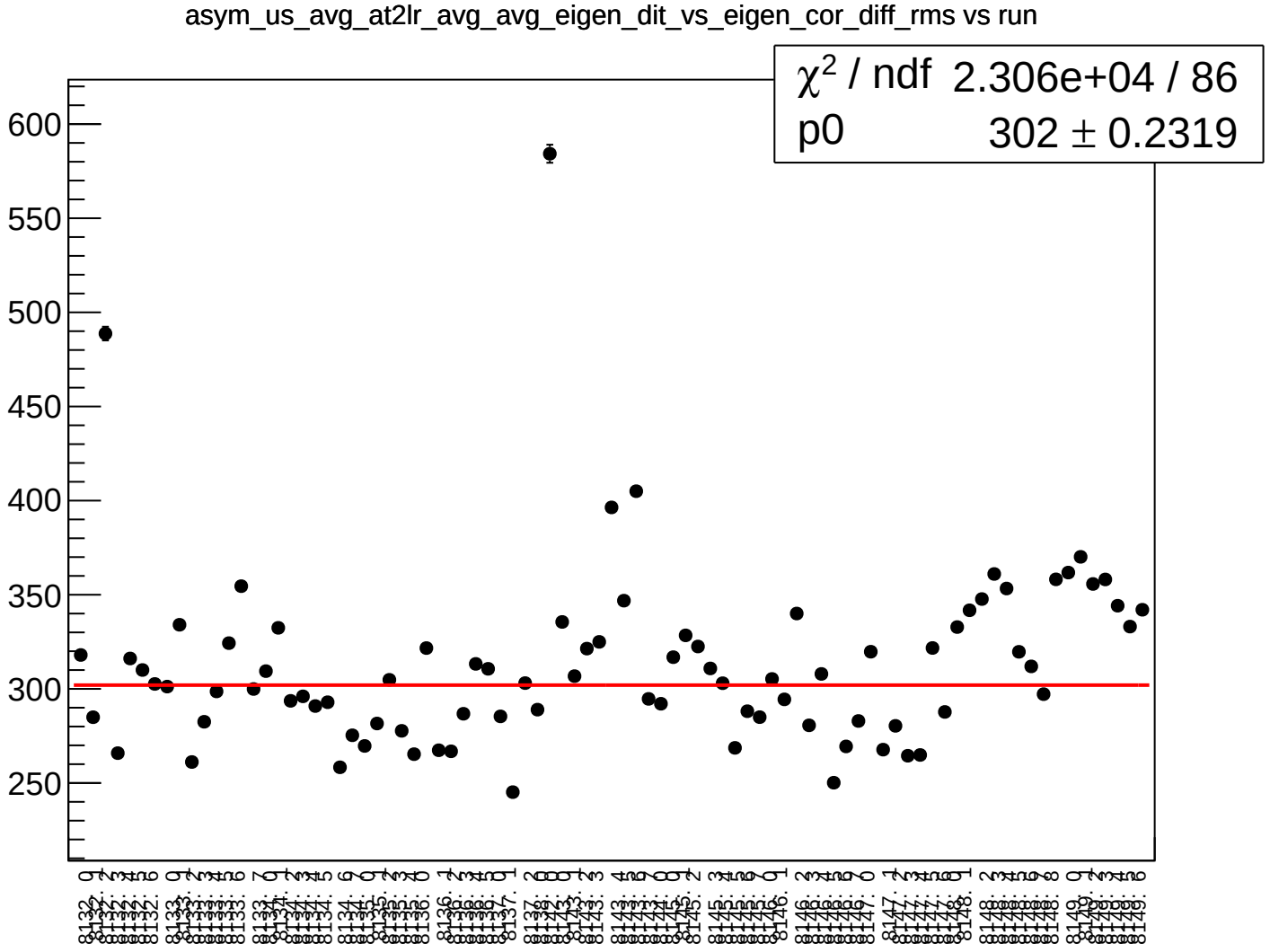

pull1D
Entries 87
Mean 0.05188
Std Dev 1.067

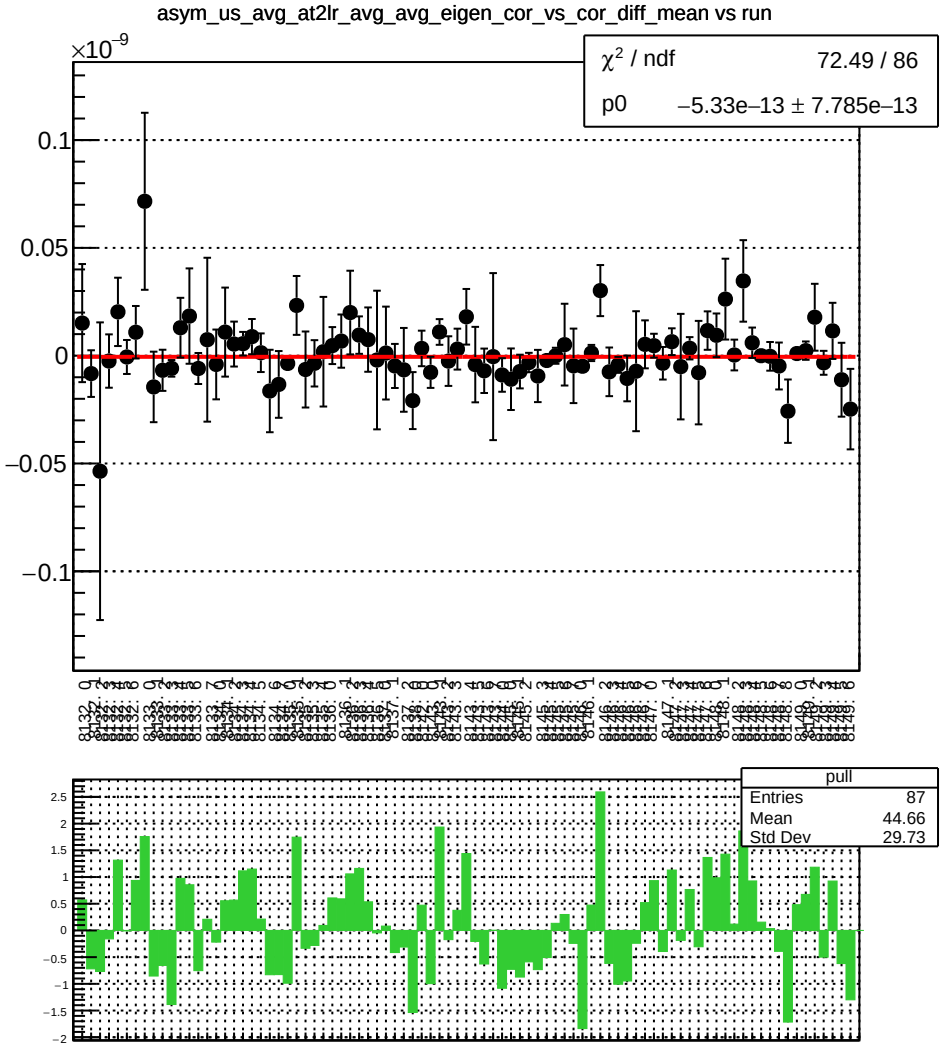

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.141e+05 / 86
p0 0.01555 ± 1.228e−05
0.04
0.035
0.03
0.025
0.02
0.015

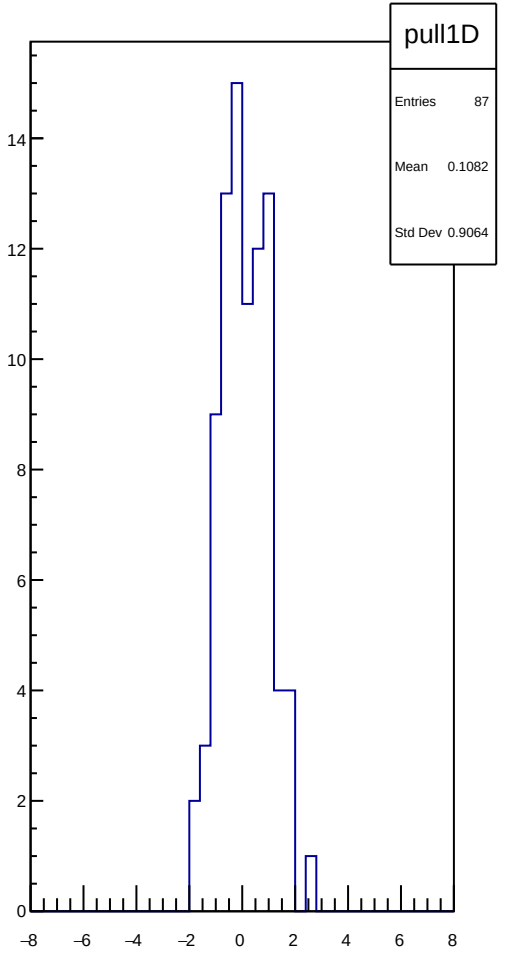

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.37 / 86
p0 0.5217 ± 0.328
pull
Entries 87
Mean 91.55
Std Dev 0
pull1D
Entries 87
Mean −0.01158
Std Dev 0.9245

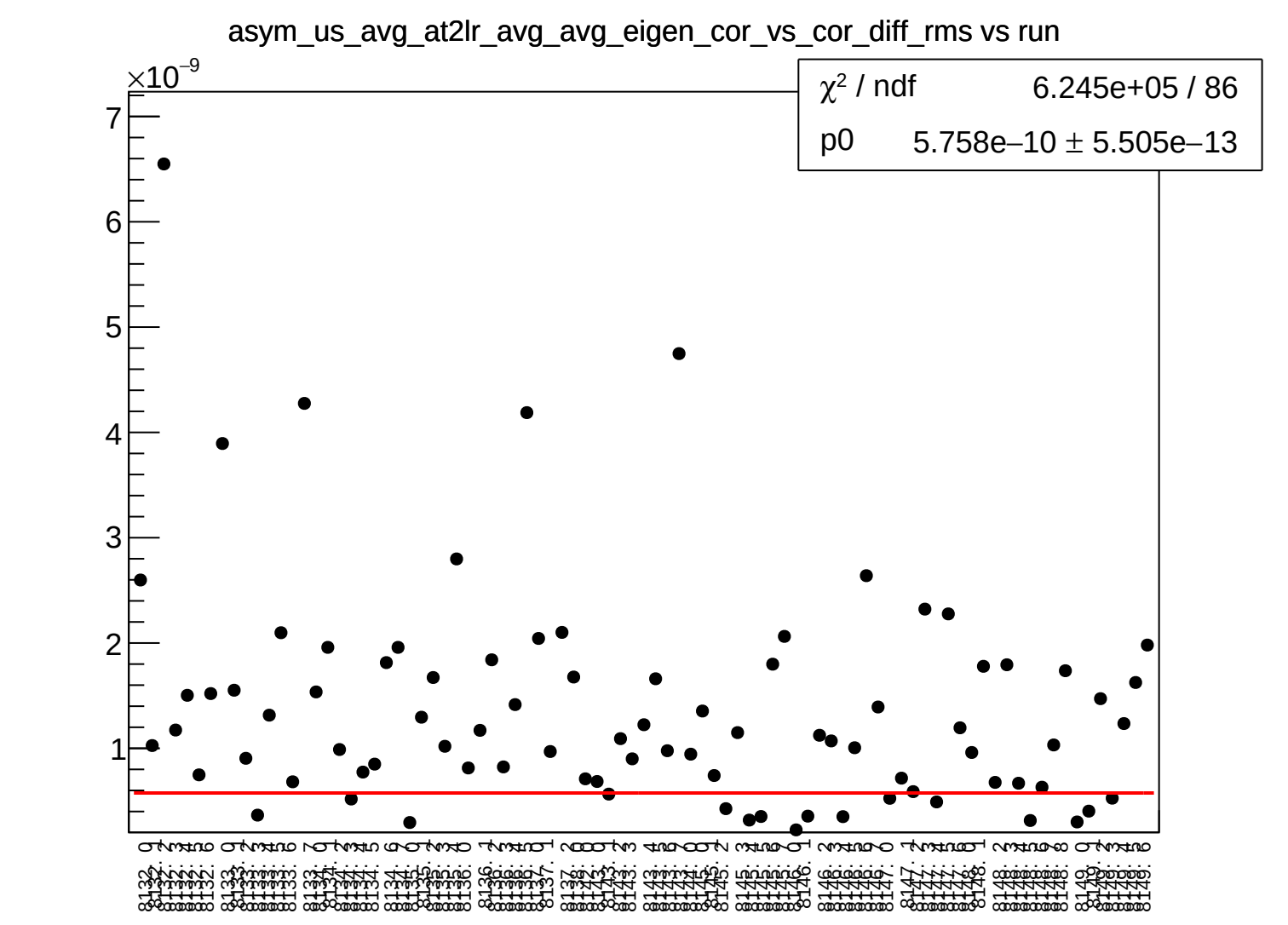

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.306e+04 / 86
p0 302 ± 0.2319
600
550
500
450
400
350
300
250

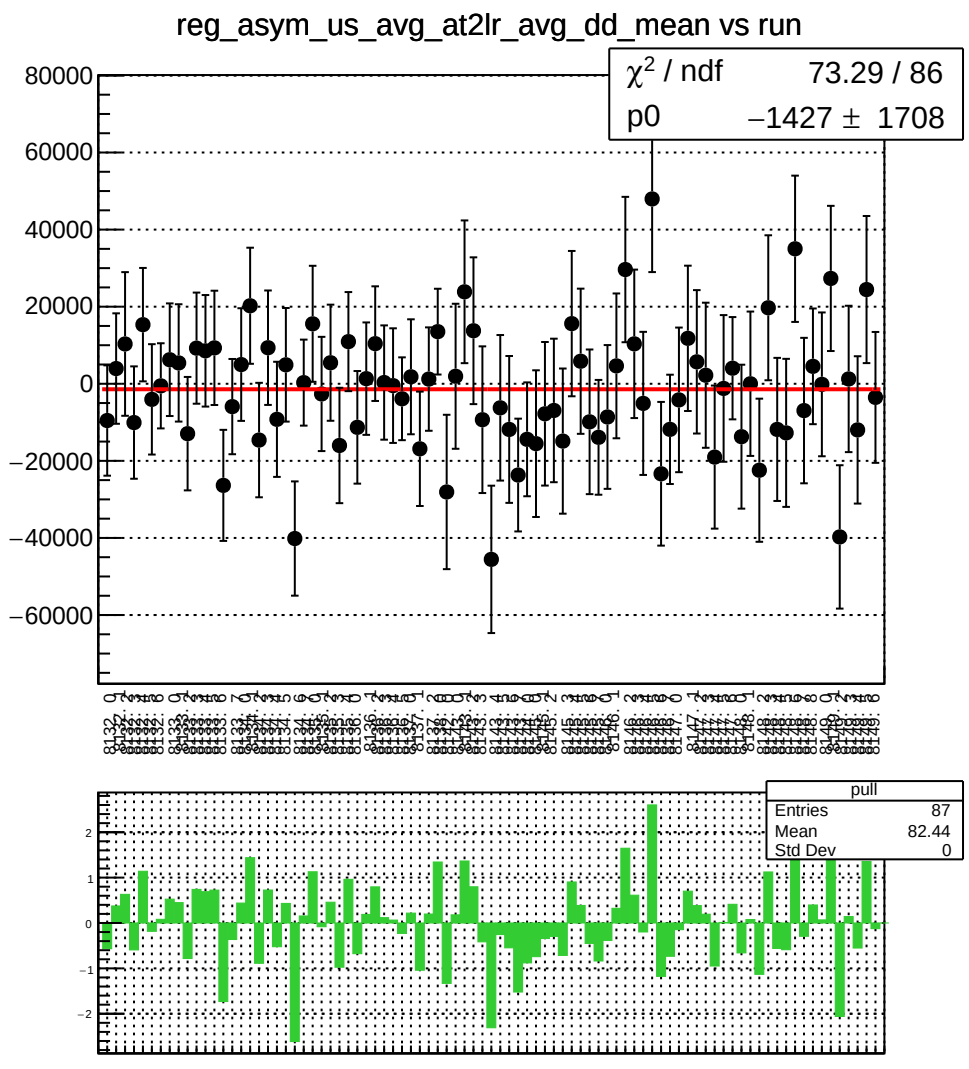

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.37 / 86
p0 0.5217 ± 0.328
pull
Entries 87
Mean 91.55
Std Dev 0
pull1D
Entries 87
Mean −0.01158
Std Dev 0.9245

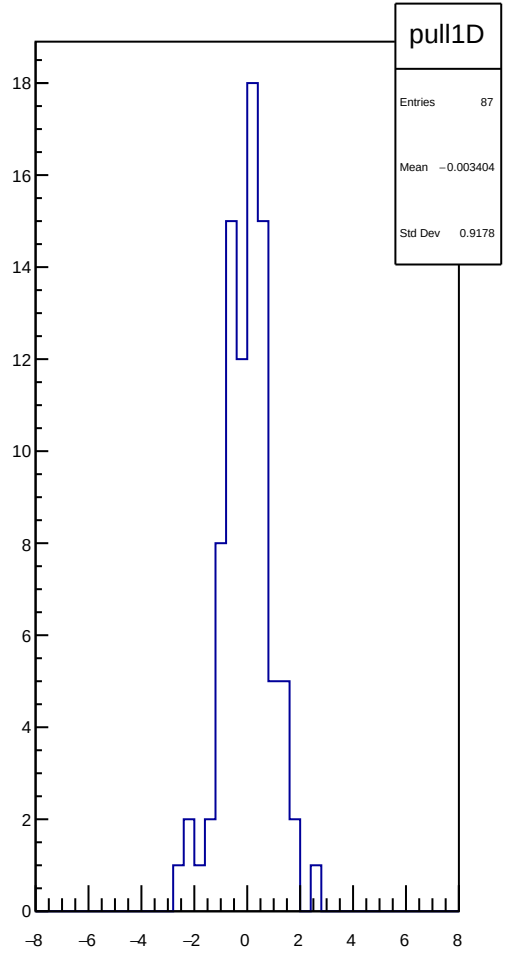

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.306e+04 / 86
p0 302 ± 0.2319
600
550
500
450
400
350
300
250

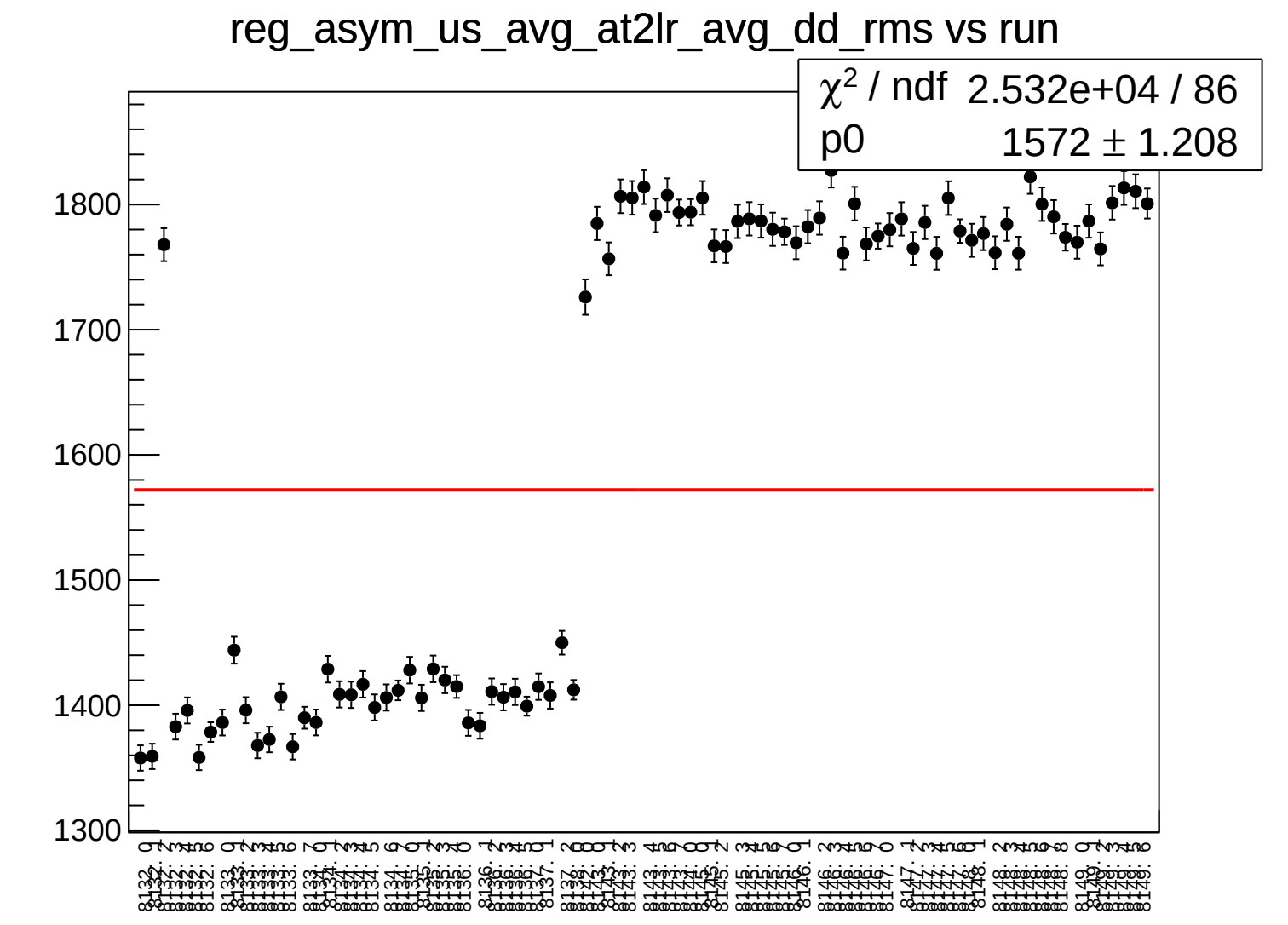

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 72.49 / 86
p0 −5.33e−13 ± 7.785e−13
0.1
0.05
0
−0.05
−0.1
pull
Entries 87
Mean 44.66
Std Dev 29.73
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

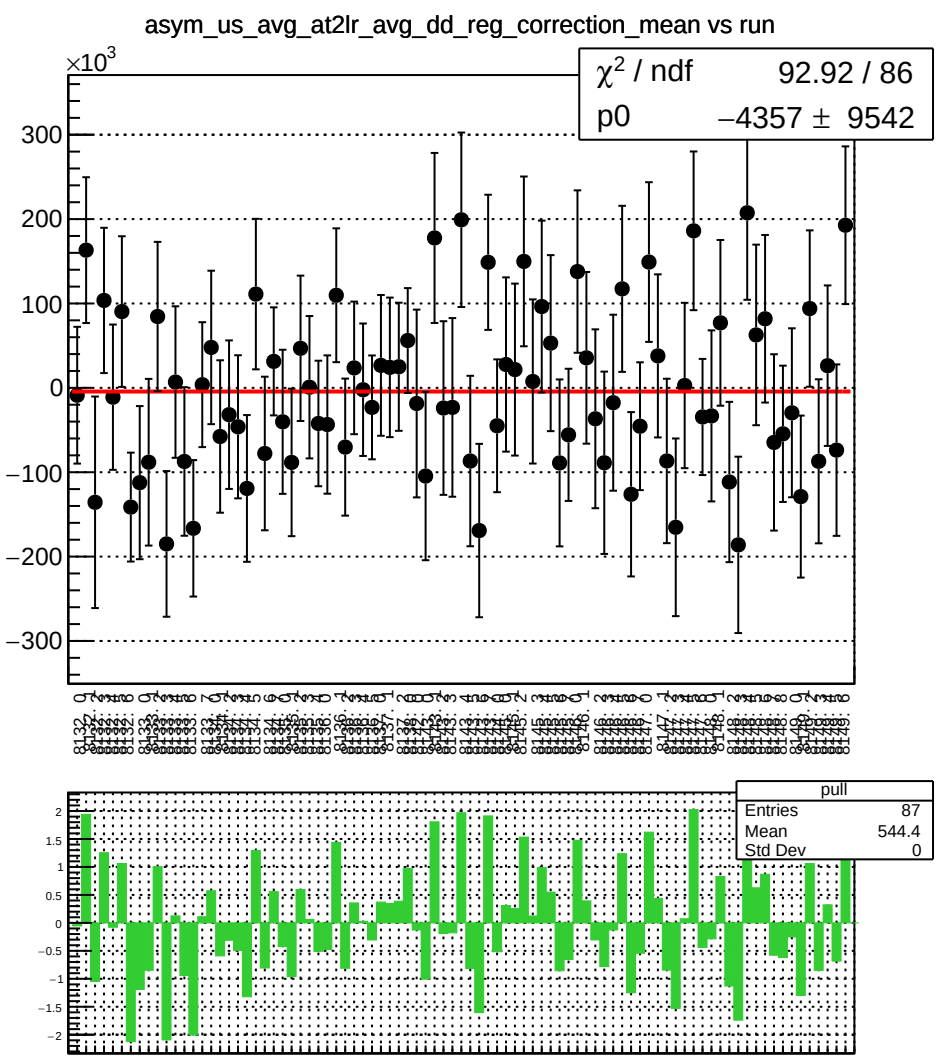

pull1D
Entries 87
Mean 0.1082
Std Dev 0.9064
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

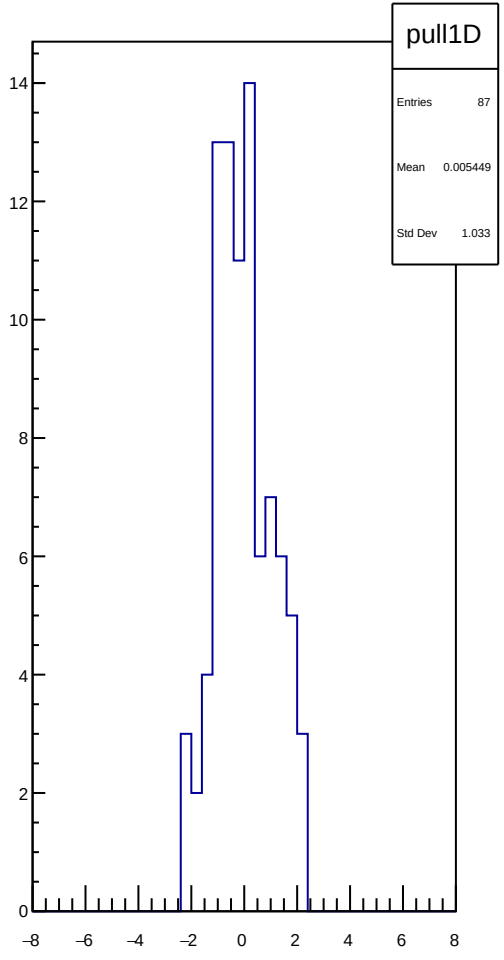

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.245e+05 / 86
p0 5.758e−10 ± 5.505e−13
7
6
5
4
3
2
1

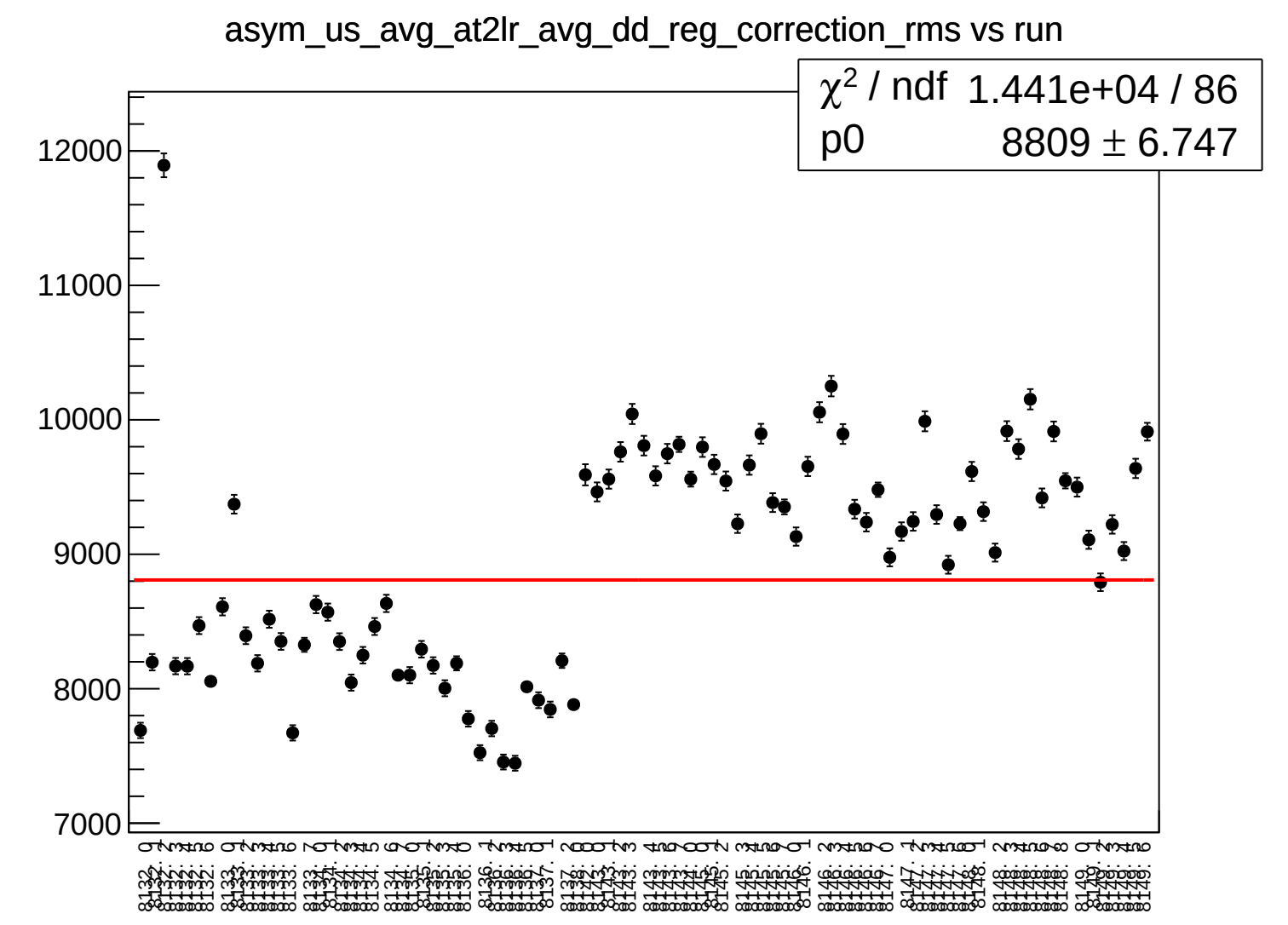

reg_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 73.29 / 86
p0 −1427 ± 1708
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 82.44
Std Dev 0
2
1
0
−1
−2

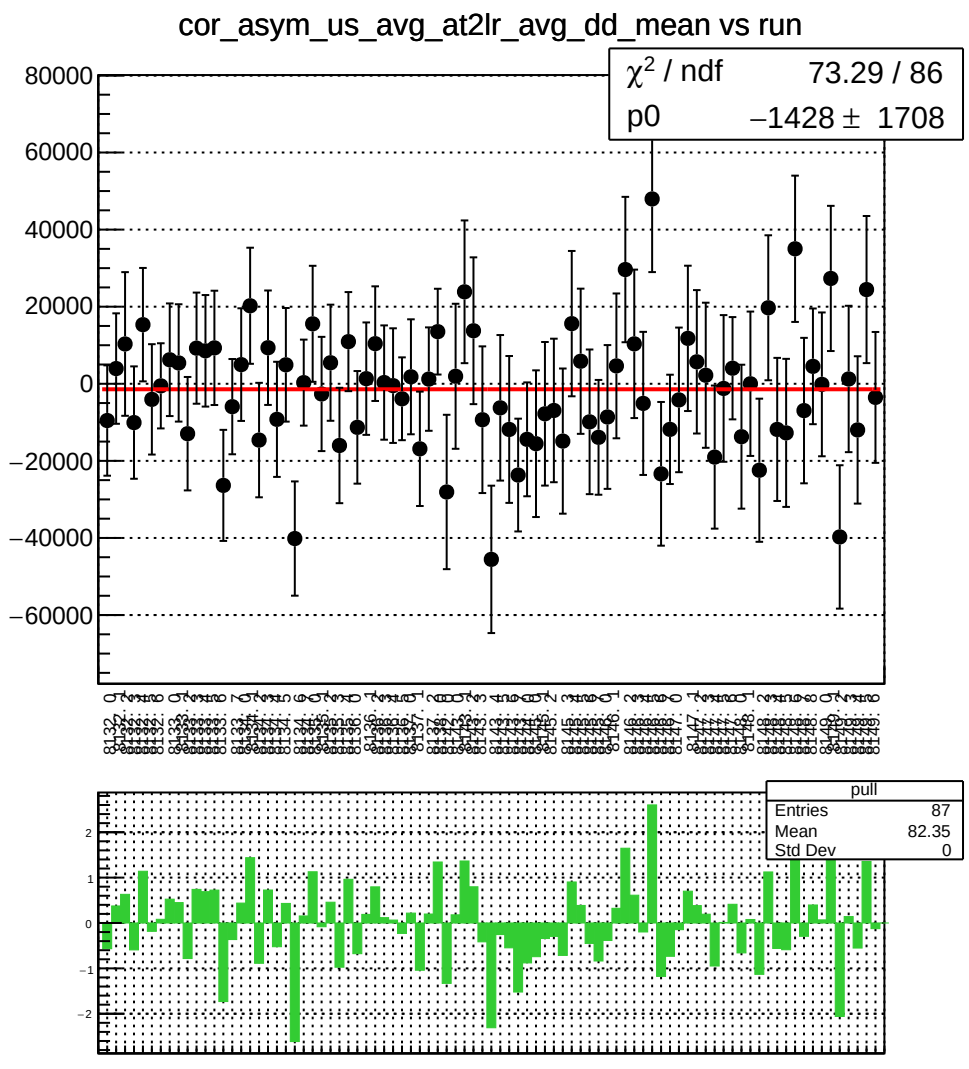

pull1D
Entries 87
Mean −0.003404
Std Dev 0.9178
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

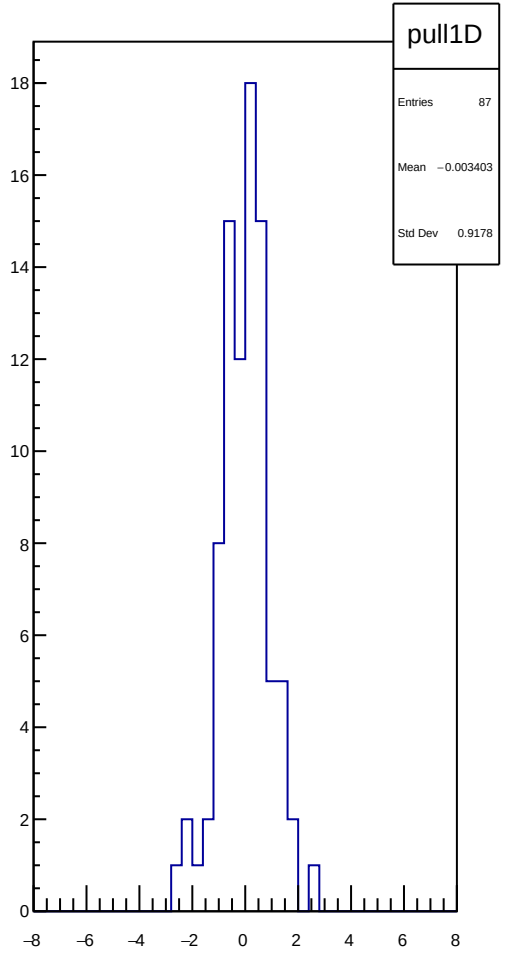

reg_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 2.532e+04 / 86
p0 1572 ± 1.208
1800
1700
1600
1500
1400
1300

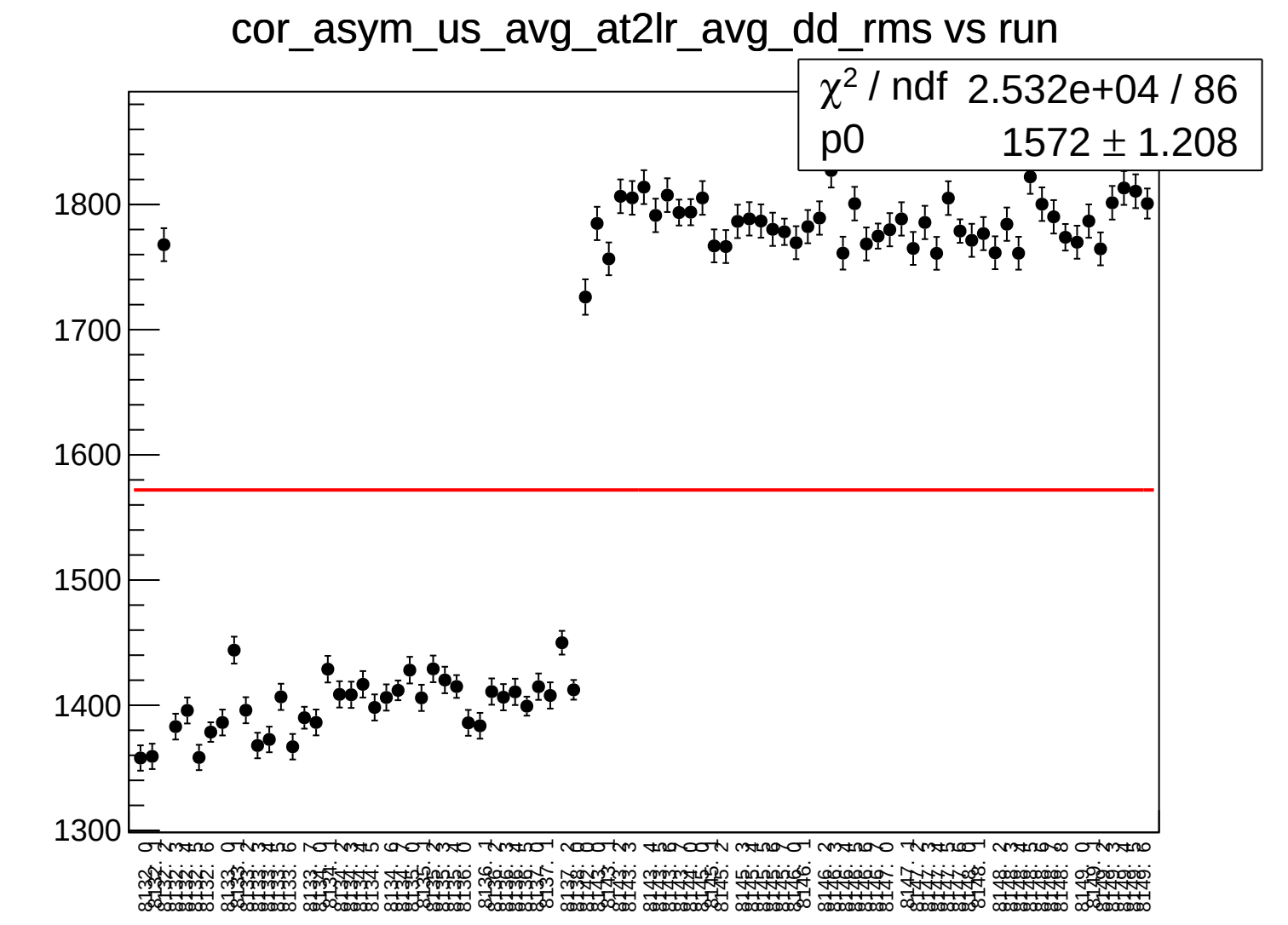

asym_us_avg_at2lr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 92.92 / 86
p0 −4357 ± 9542
300
200
100
0
−100
−200
−300
pull
Entries 87
Mean 544.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

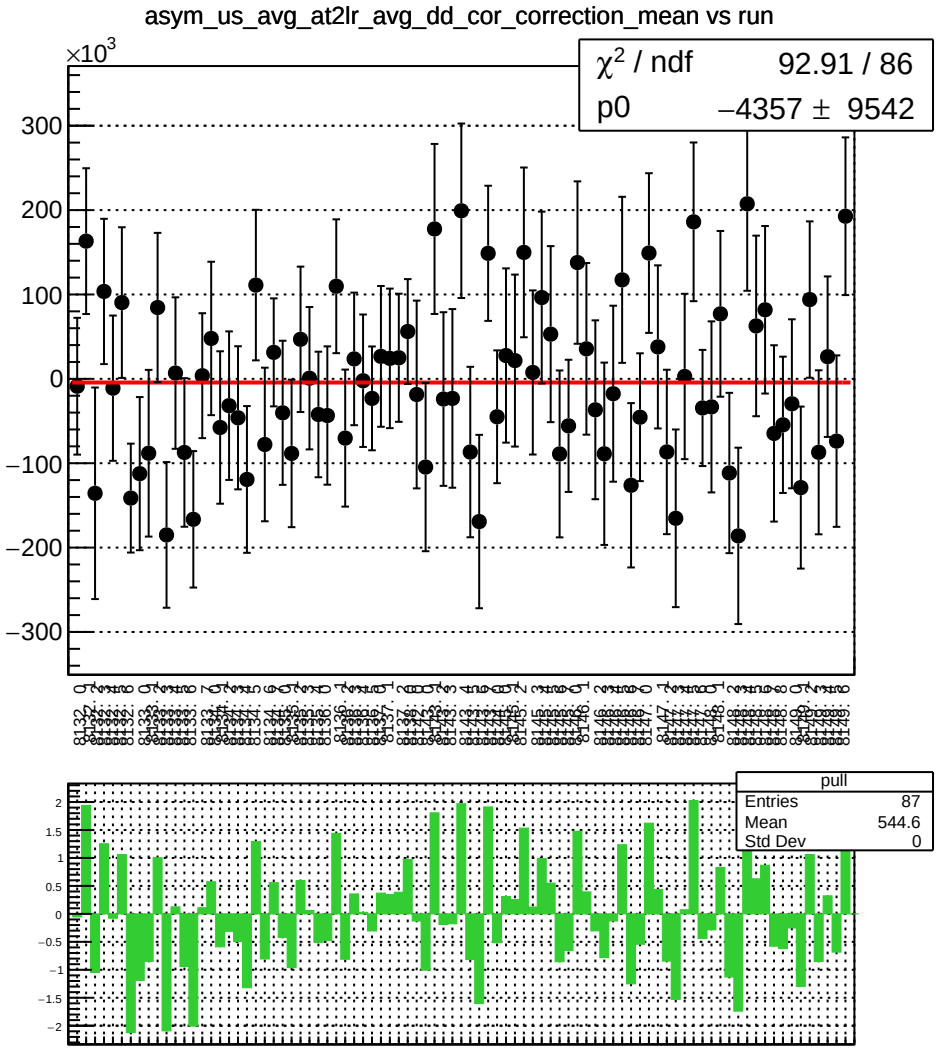

pull1D
Entries 87
Mean 0.005449
Std Dev 1.033
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

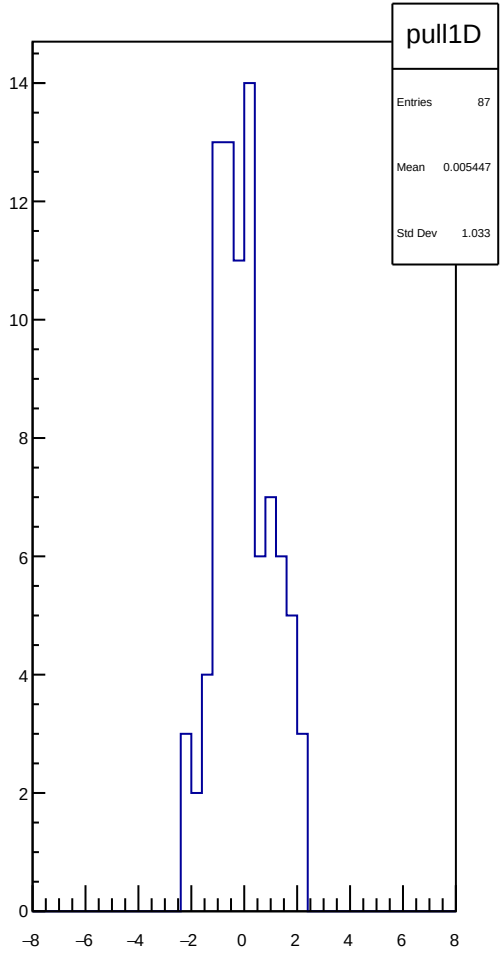

asym_us_avg_at2lr_avg_dd_reg_correction_rms vs run
χ² / ndf 1.441e+04 / 86
p0 8809 ± 6.747
12000
11000
10000
9000
8000
7000

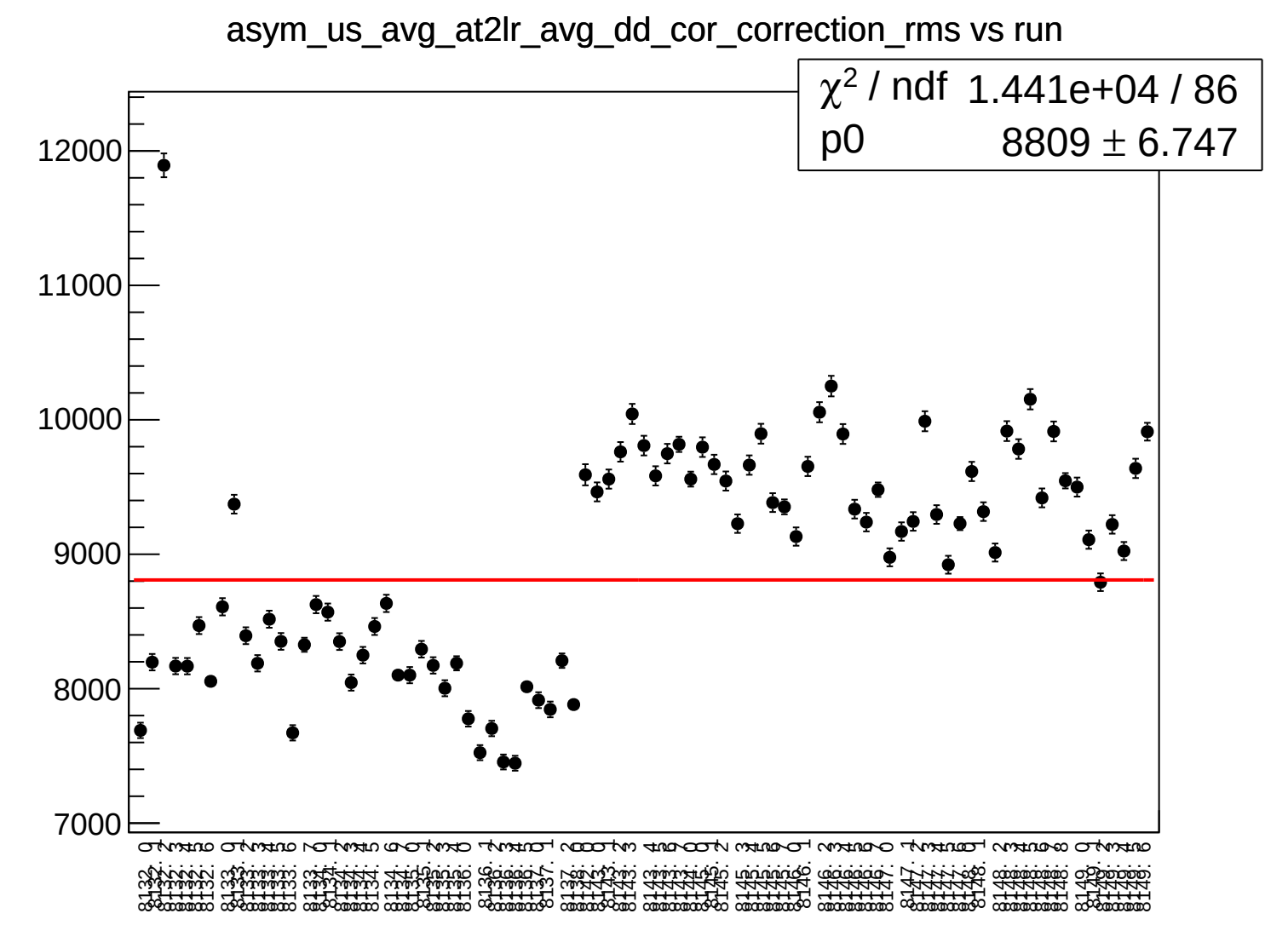

cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 73.29 / 86
p0 −1428 ± 1708
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 82.35
Std Dev 0
2
1
0
−1
−2

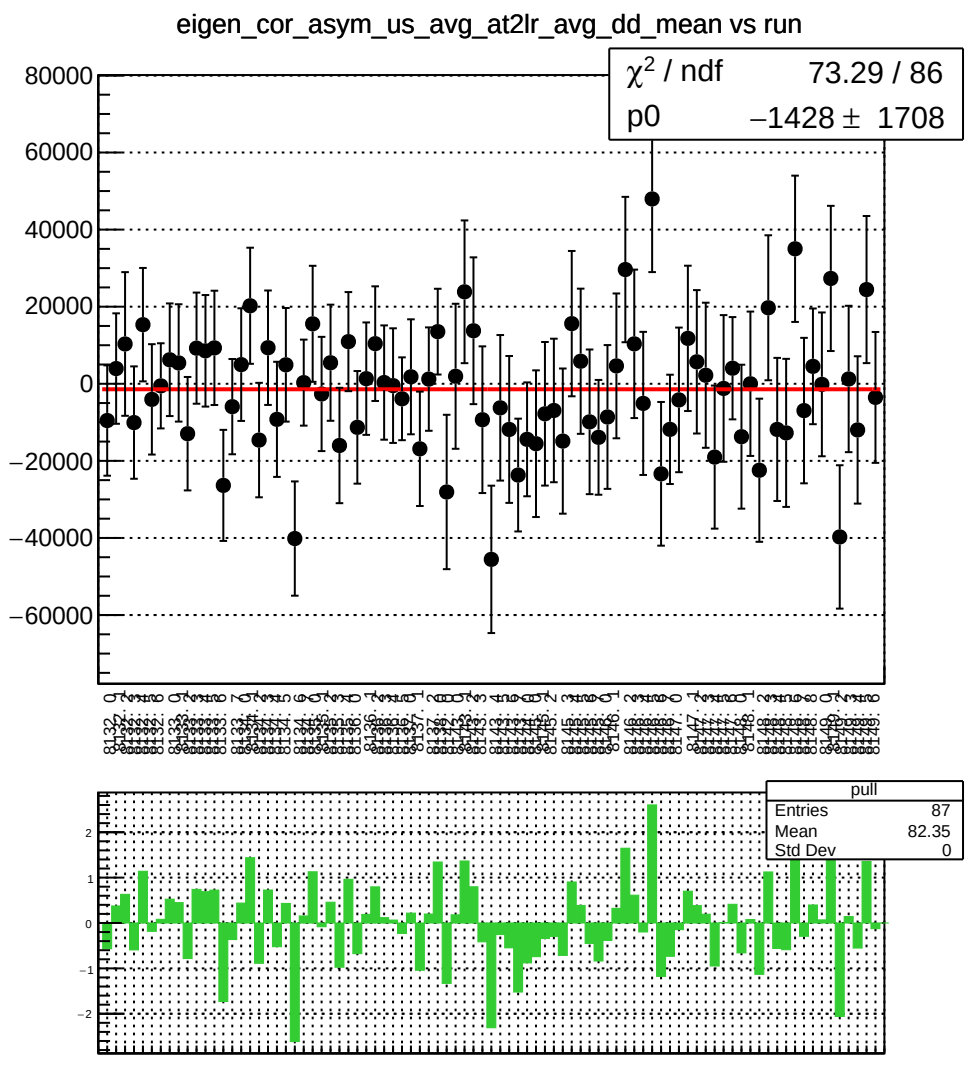

pull1D
Entries 87
Mean −0.003403
Std Dev 0.9178
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

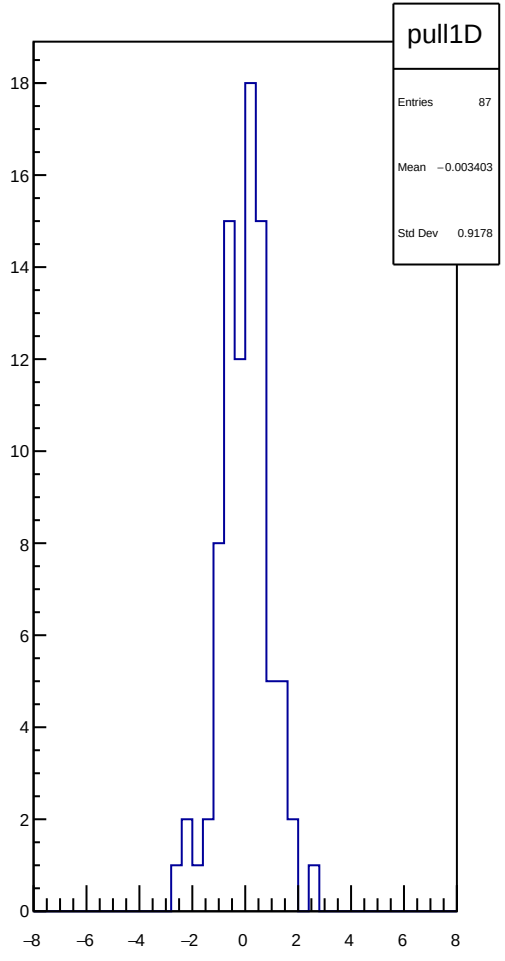

cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 2.532e+04 / 86
p0 1572 ± 1.208
1800
1700
1600
1500
1400
1300

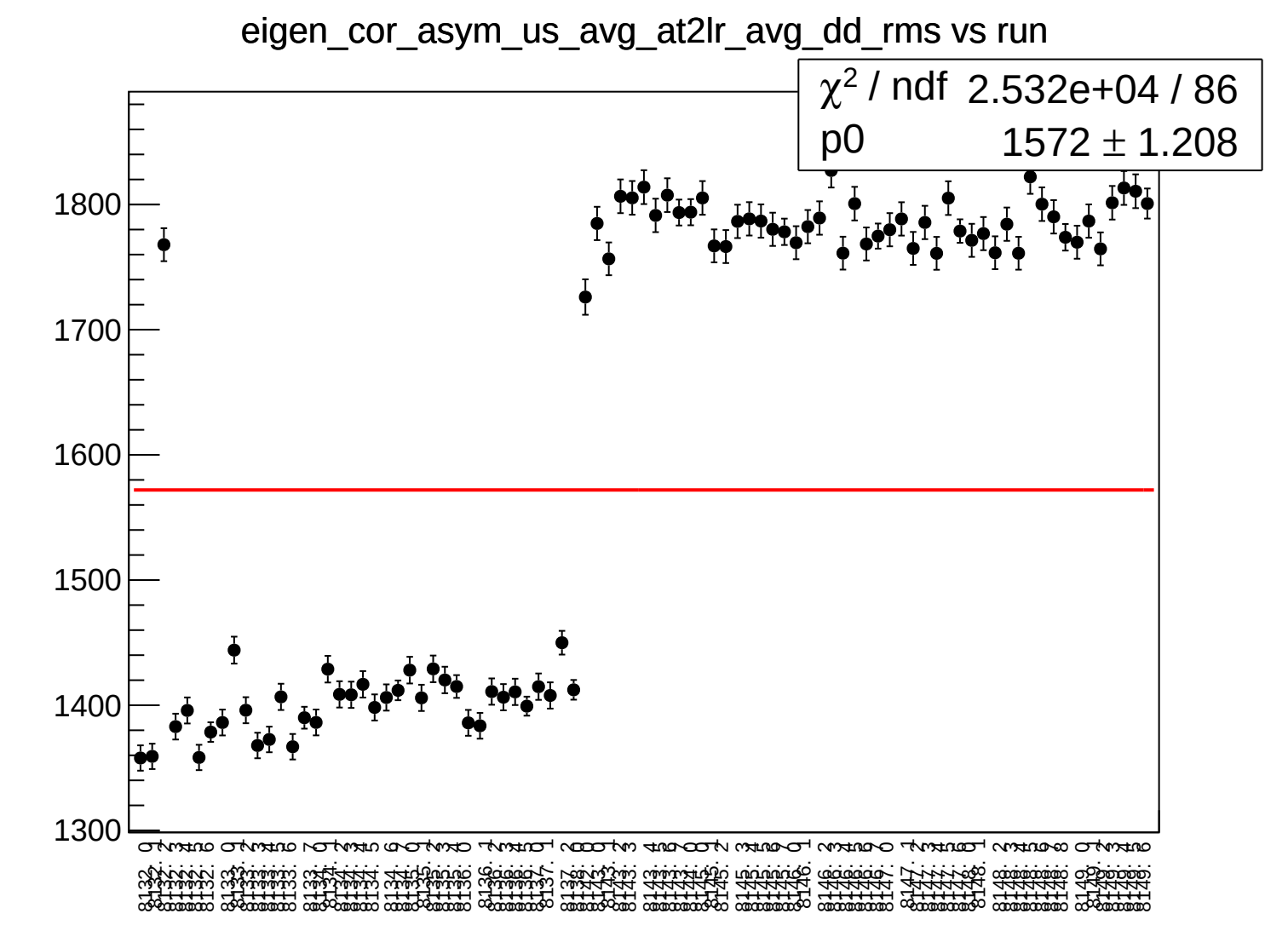

asym_us_avg_at2lr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 92.91 / 86
p0 −4357 ± 9542
300
200
100
0
−100
−200
−300
pull
Entries 87
Mean 544.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

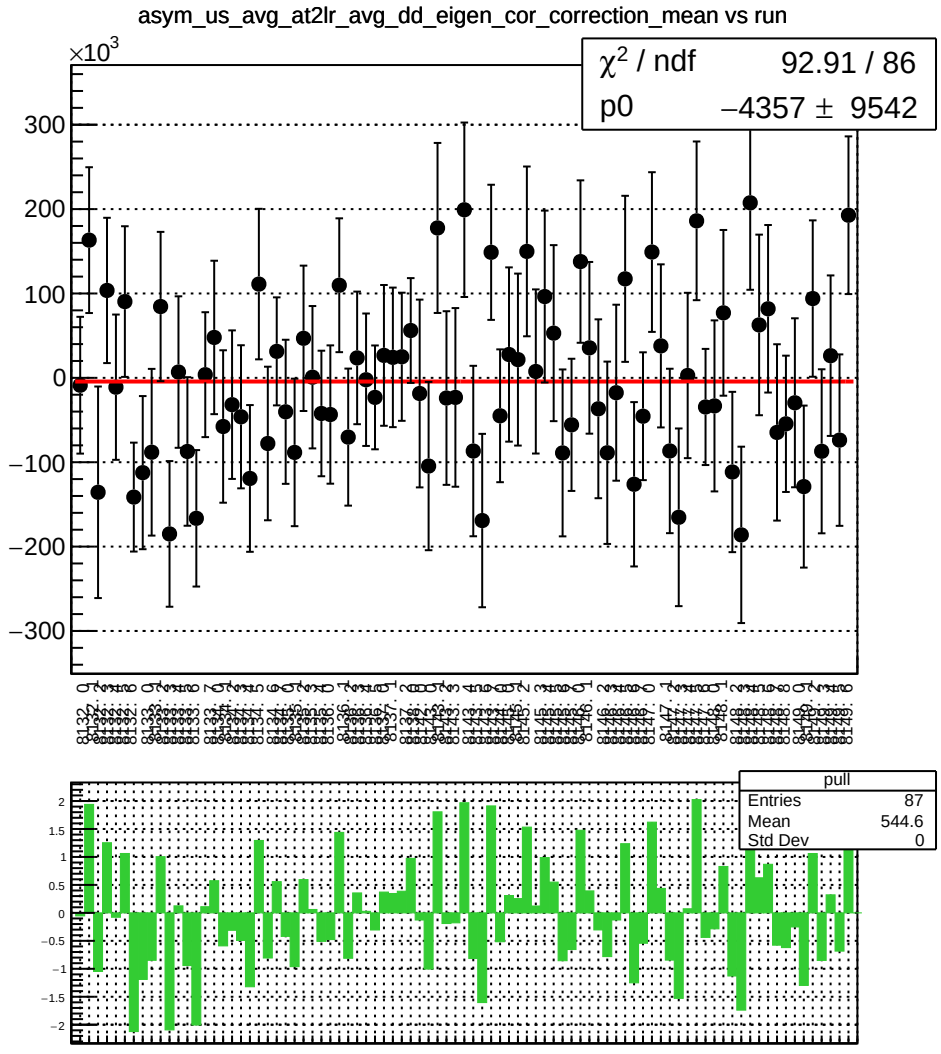

pull1D
Entries 87
Mean 0.005447
Std Dev 1.033
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

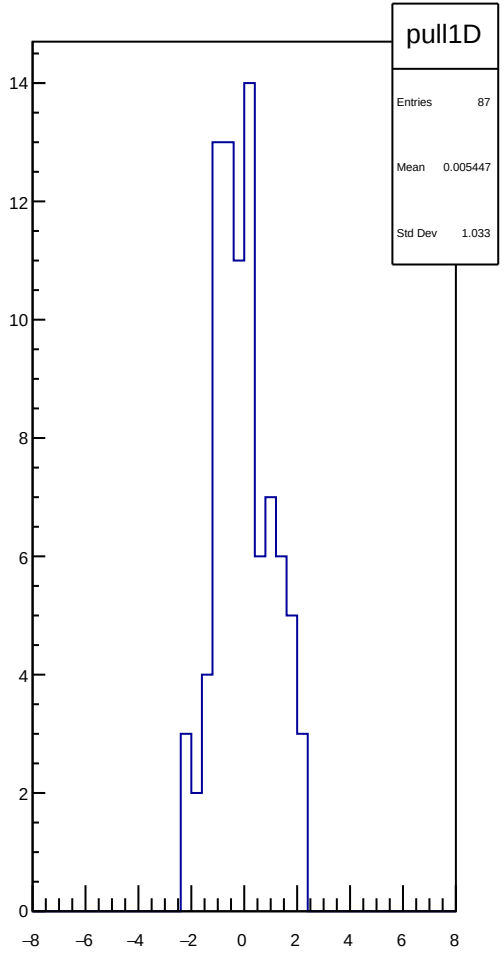

asym_us_avg_at2lr_avg_dd_cor_correction_rms vs run
χ² / ndf 1.441e+04 / 86
p0 8809 ± 6.747
12000
11000
10000
9000
8000
7000

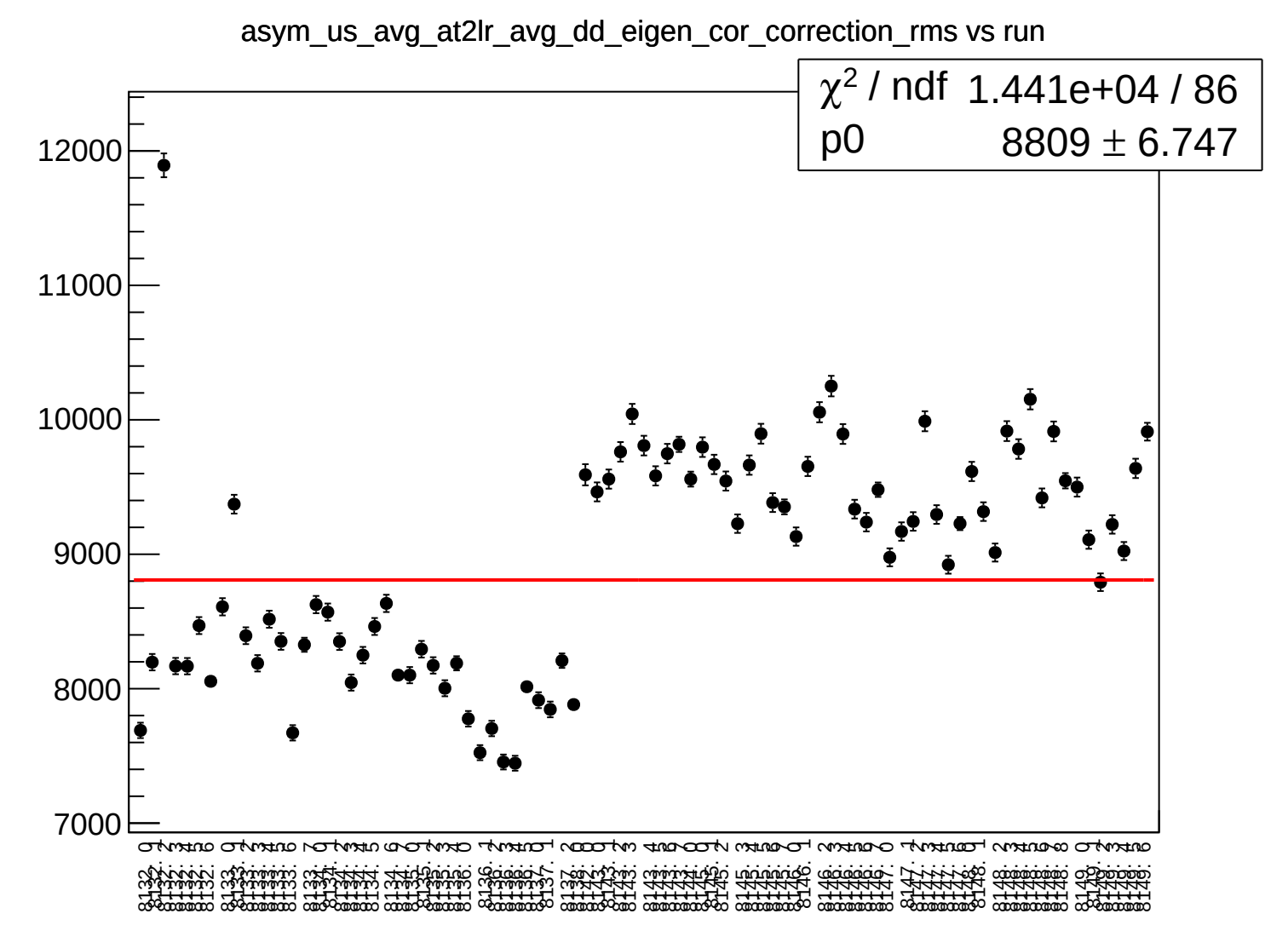

eigen_cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 73.29 / 86
p0 −1428 ± 1708
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 82.35
Std Dev 0
2
1
0
−1
−2

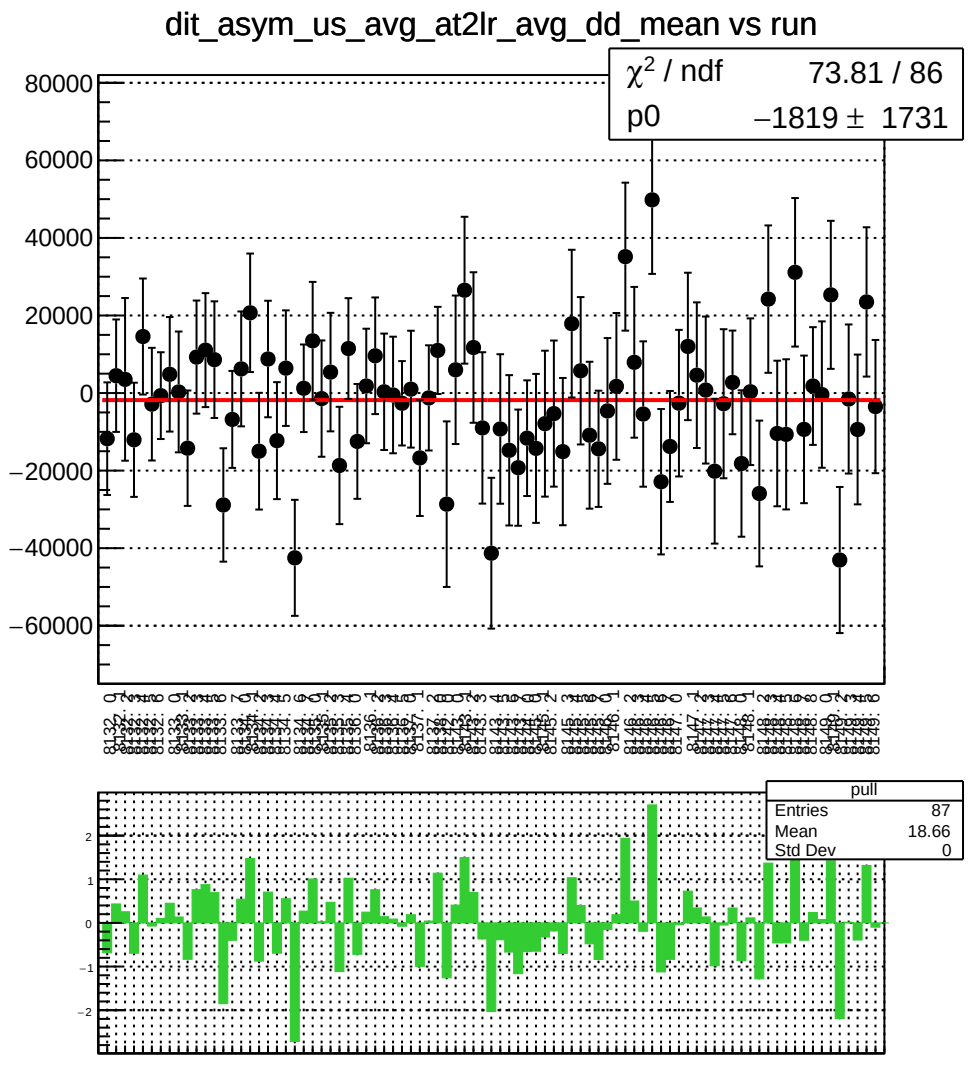

pull1D
Entries 87
Mean −0.003403
Std Dev 0.9178
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

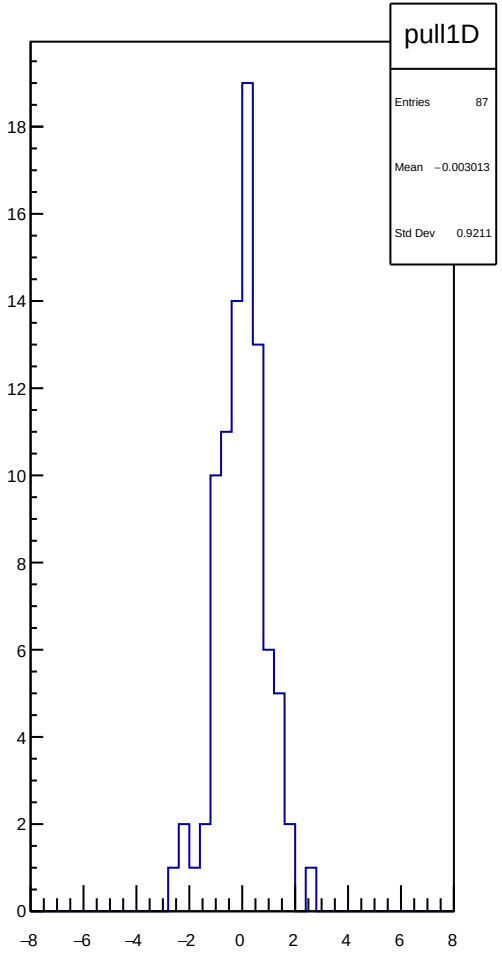

eigen_cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 2.532e+04 / 86
p0 1572 ± 1.208
1800
1700
1600
1500
1400
1300

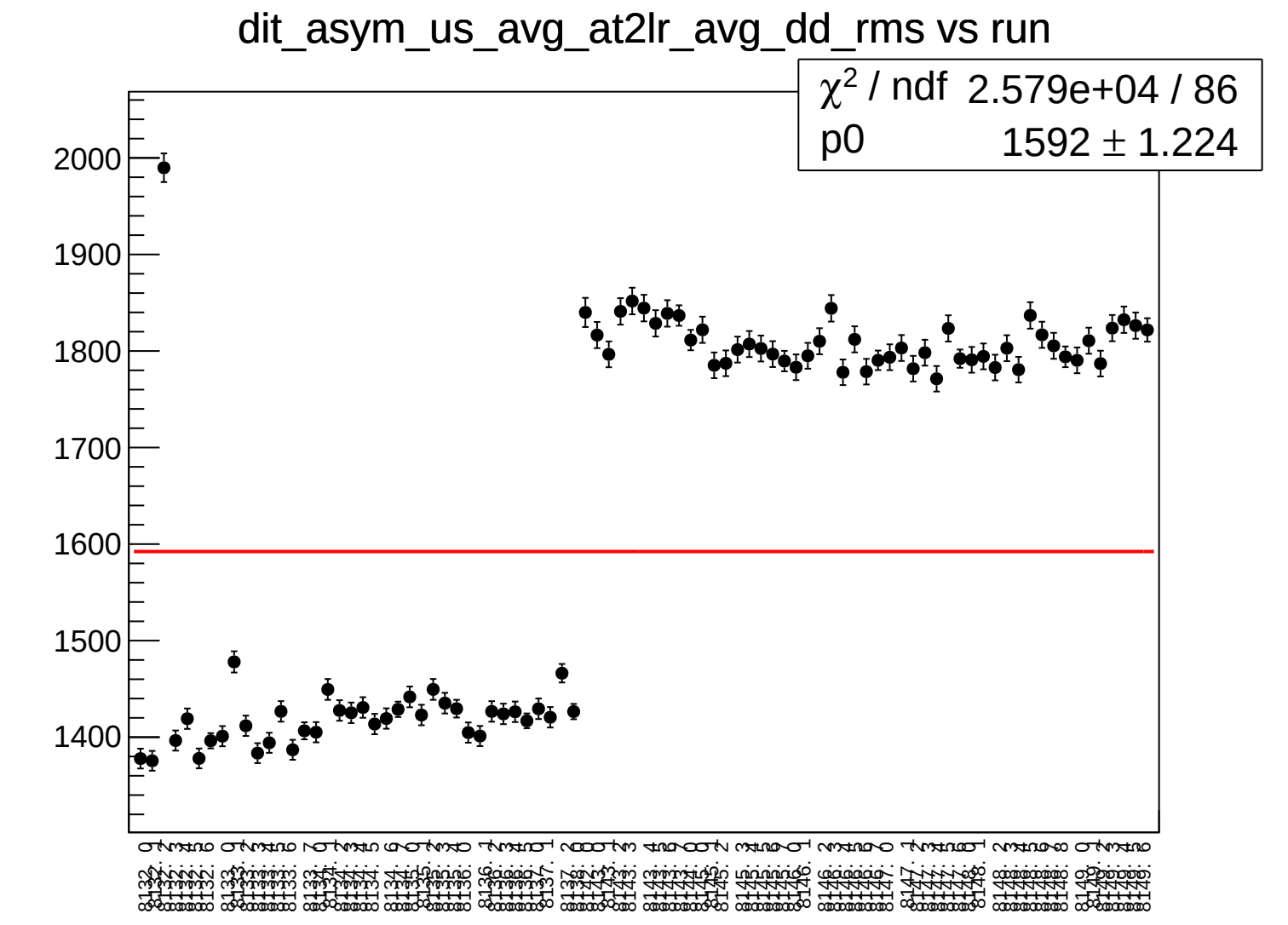

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 92.91 / 86
p0 −4357 ± 9542
300
200
100
0
−100
−200
−300
pull
Entries 87
Mean 544.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

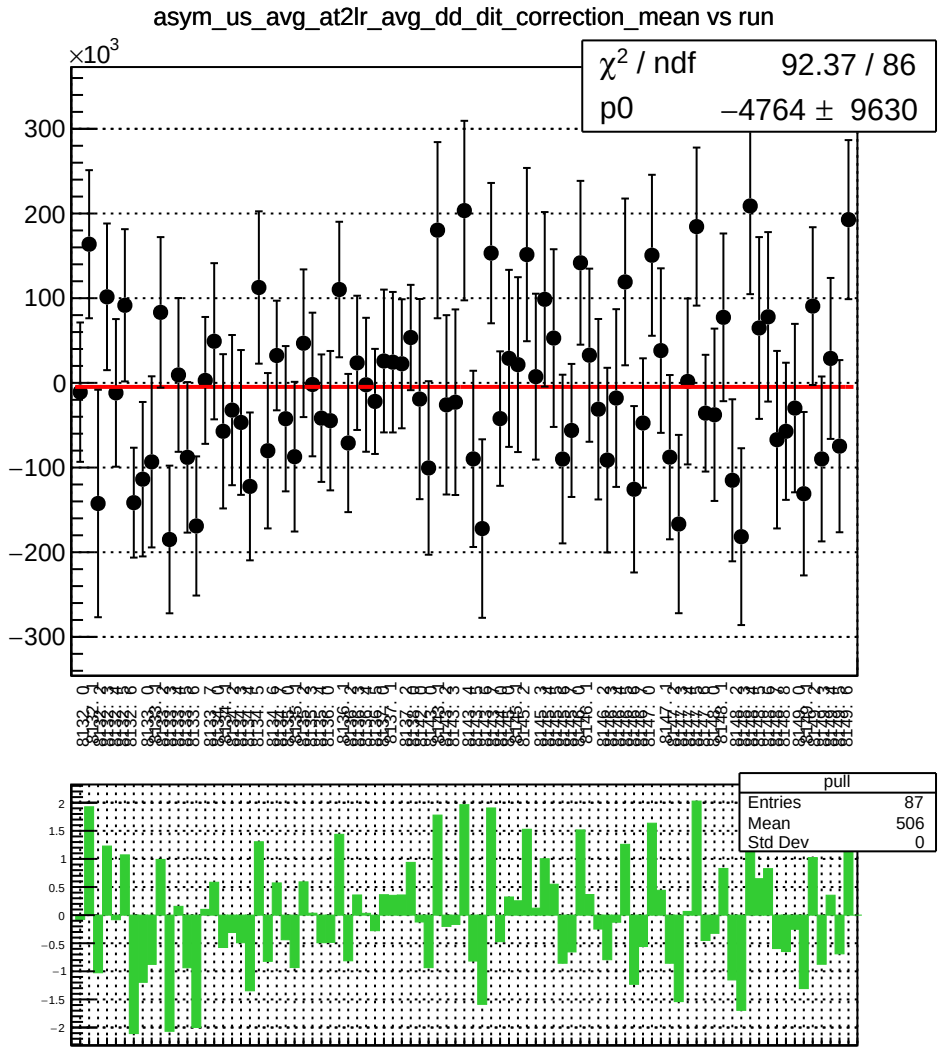

pull1D
Entries 87
Mean 0.005447
Std Dev 1.033
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

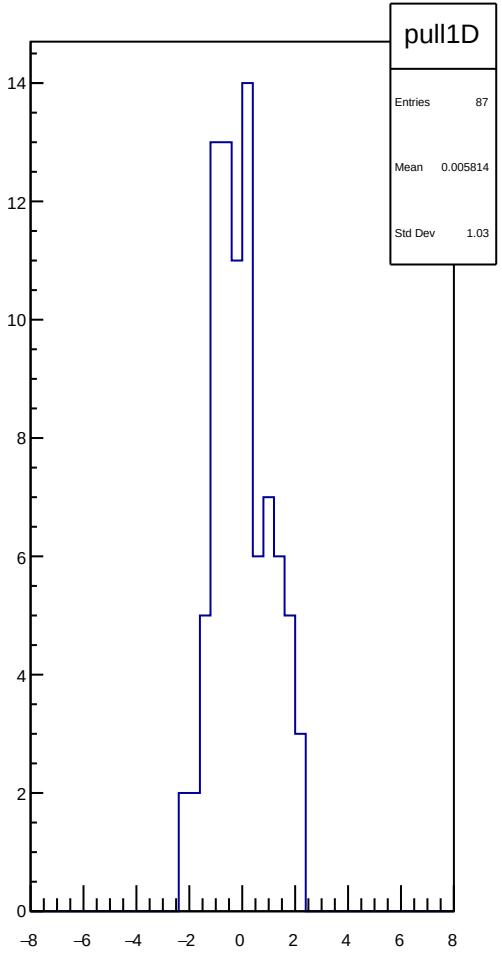

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.441e+04 / 86
p0 8809 ± 6.747
12000
11000
10000
9000
8000
7000

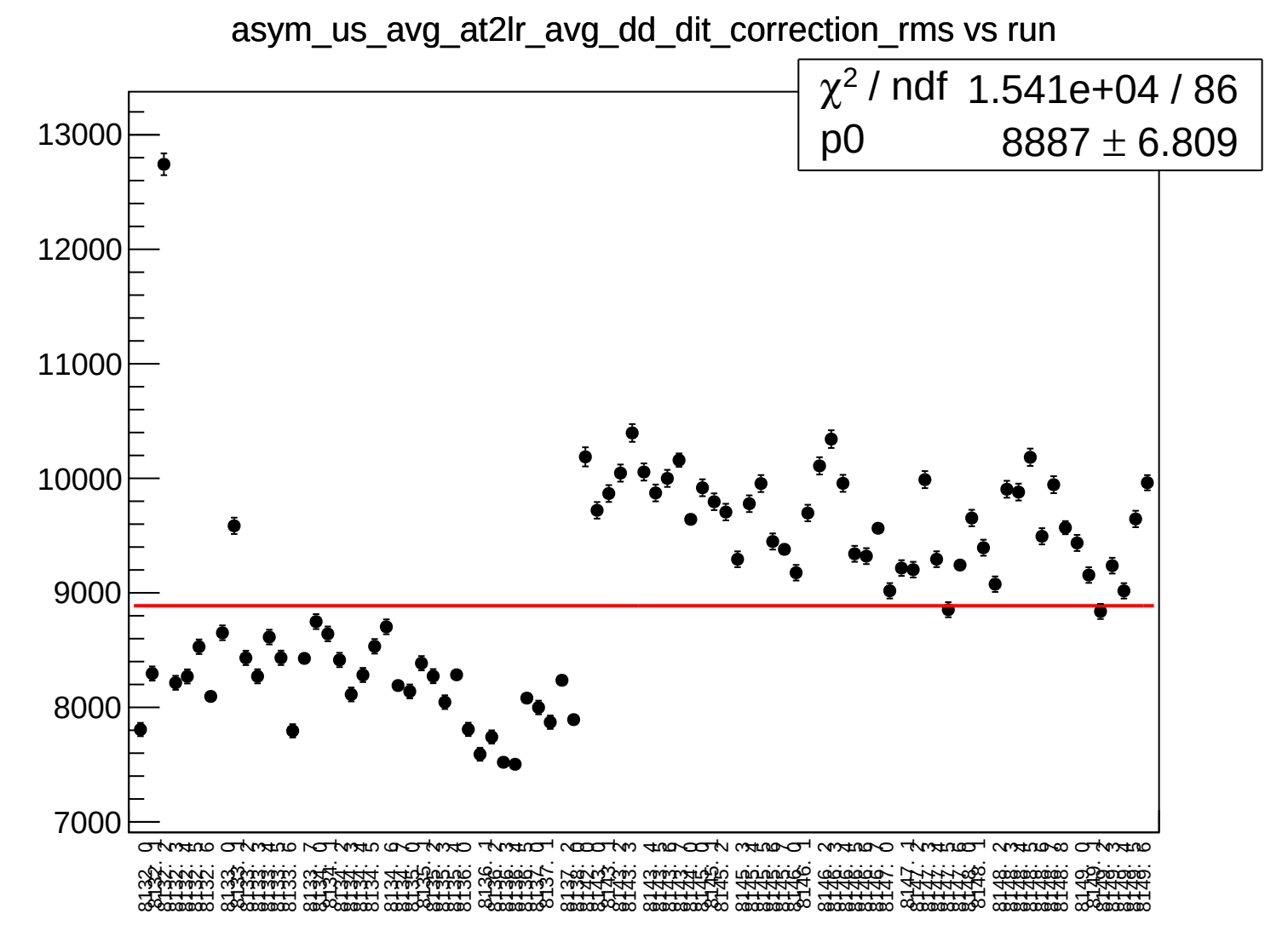

dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 73.81 / 86
p0 −1819 ± 1731
pull
Entries 87
Mean 18.66
Std Dev 0

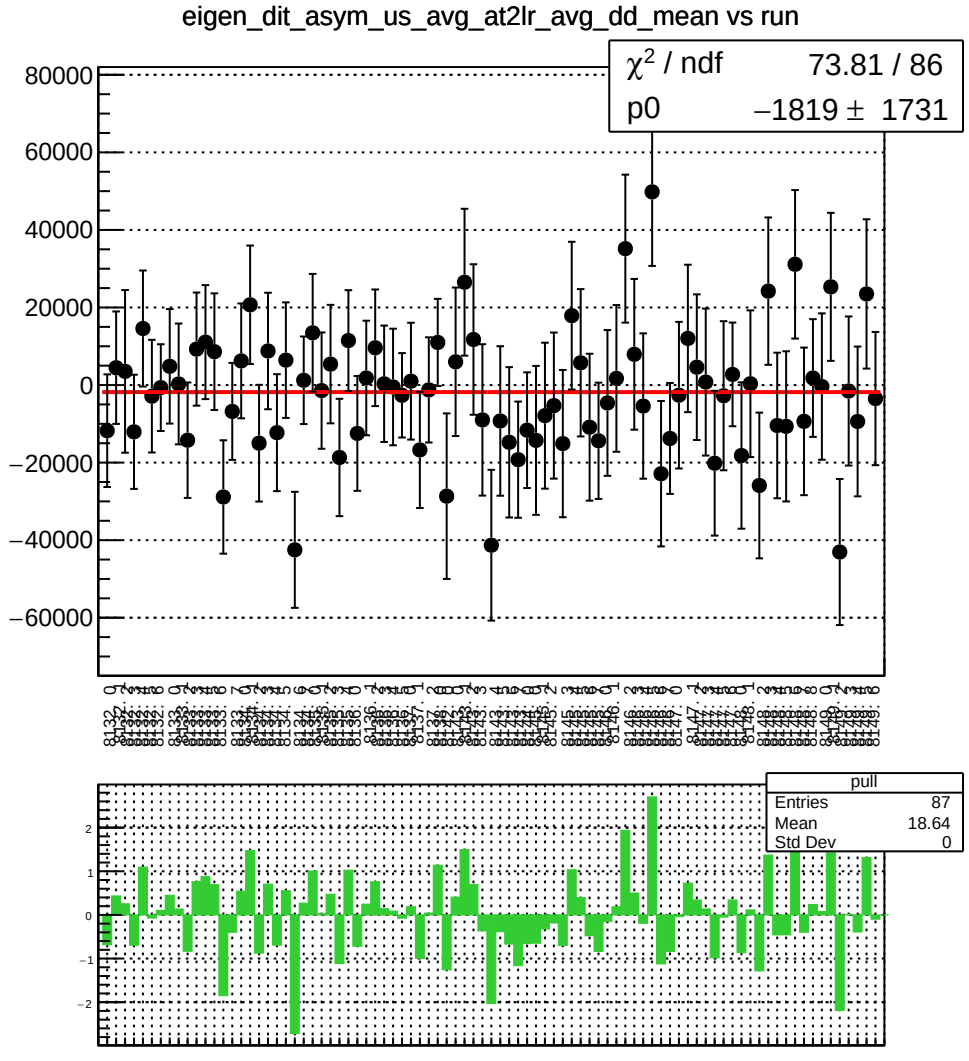

pull1D
Entries 87
Mean −0.003013
Std Dev 0.9211

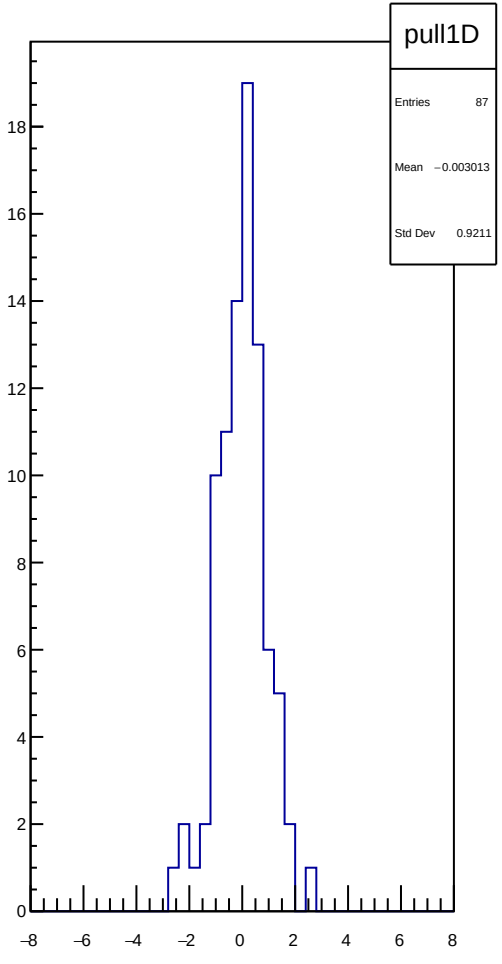

dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 2.579e+04 / 86
p0 1592 ± 1.224
2000
1900
1800
1700
1600
1500
1400

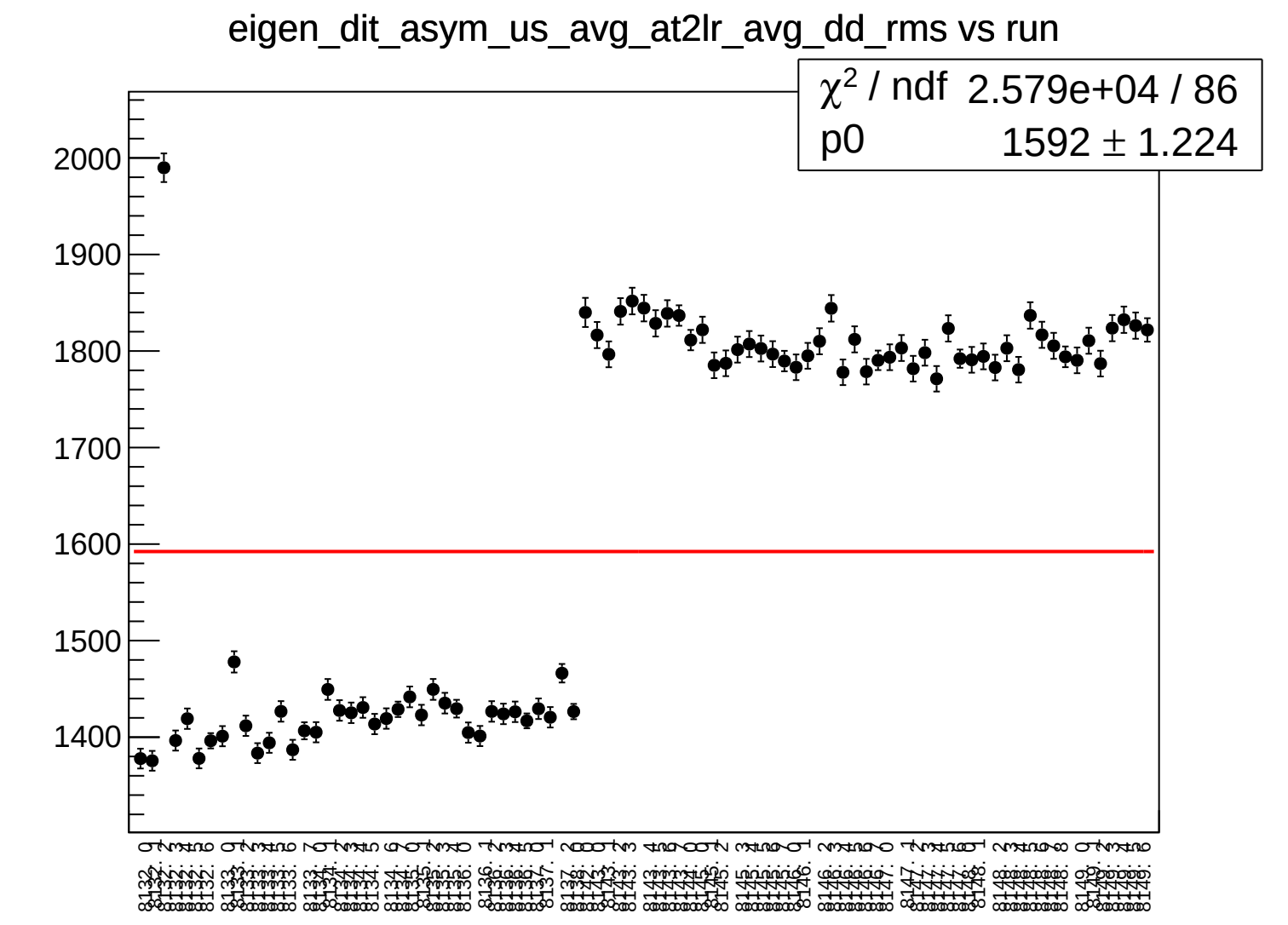

asym_us_avg_at2lr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 92.37 / 86
p0 −4764 ± 9630
300
200
100
0
−100
−200
−300
pull
Entries 87
Mean 506
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

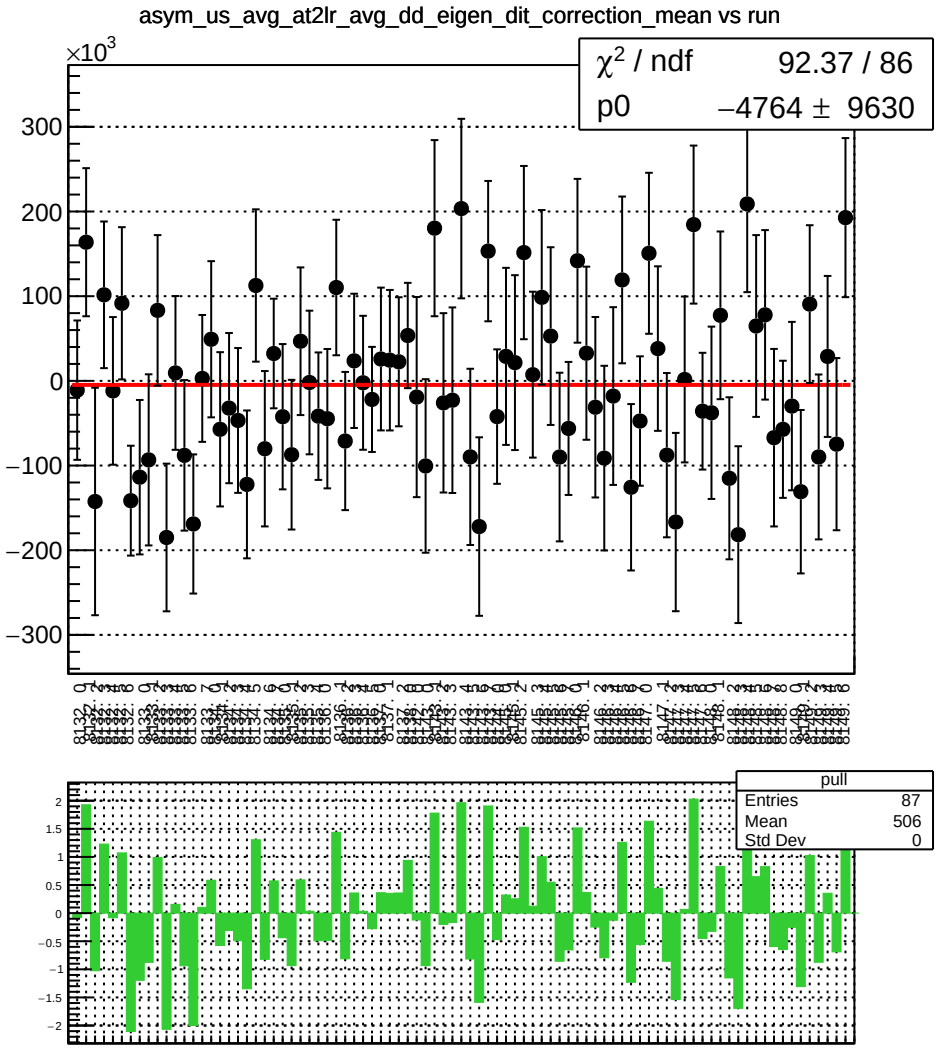

pull1D
Entries 87
Mean 0.005814
Std Dev 1.03
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

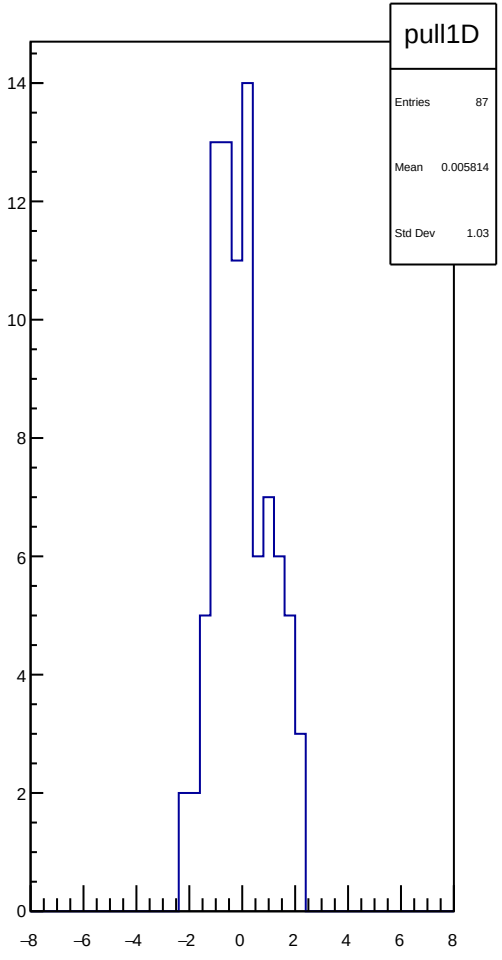

asym_us_avg_at2lr_avg_dd_dit_correction_rms vs run
χ² / ndf 1.541e+04 / 86
p0 8887 ± 6.809
13000
12000
11000
10000
9000
8000
7000


eigen_dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 73.81 / 86
p0 −1819 ± 1731
pull
Entries 87
Mean 18.64
Std Dev 0


pull1D
Entries 87
Mean −0.003013
Std Dev 0.9211


eigen_dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 2.579e+04 / 86
p0 1592 ± 1.224
2000
1900
1800
1700
1600
1500
1400


asym_us_avg_at2lr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 92.37 / 86
p0 −4764 ± 9630
300
200
100
0
−100
−200
−300
pull
Entries 87
Mean 506
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 87
Mean 0.005814
Std Dev 1.03
14
12
10
8
6
4
2
0
−8
−6
−4
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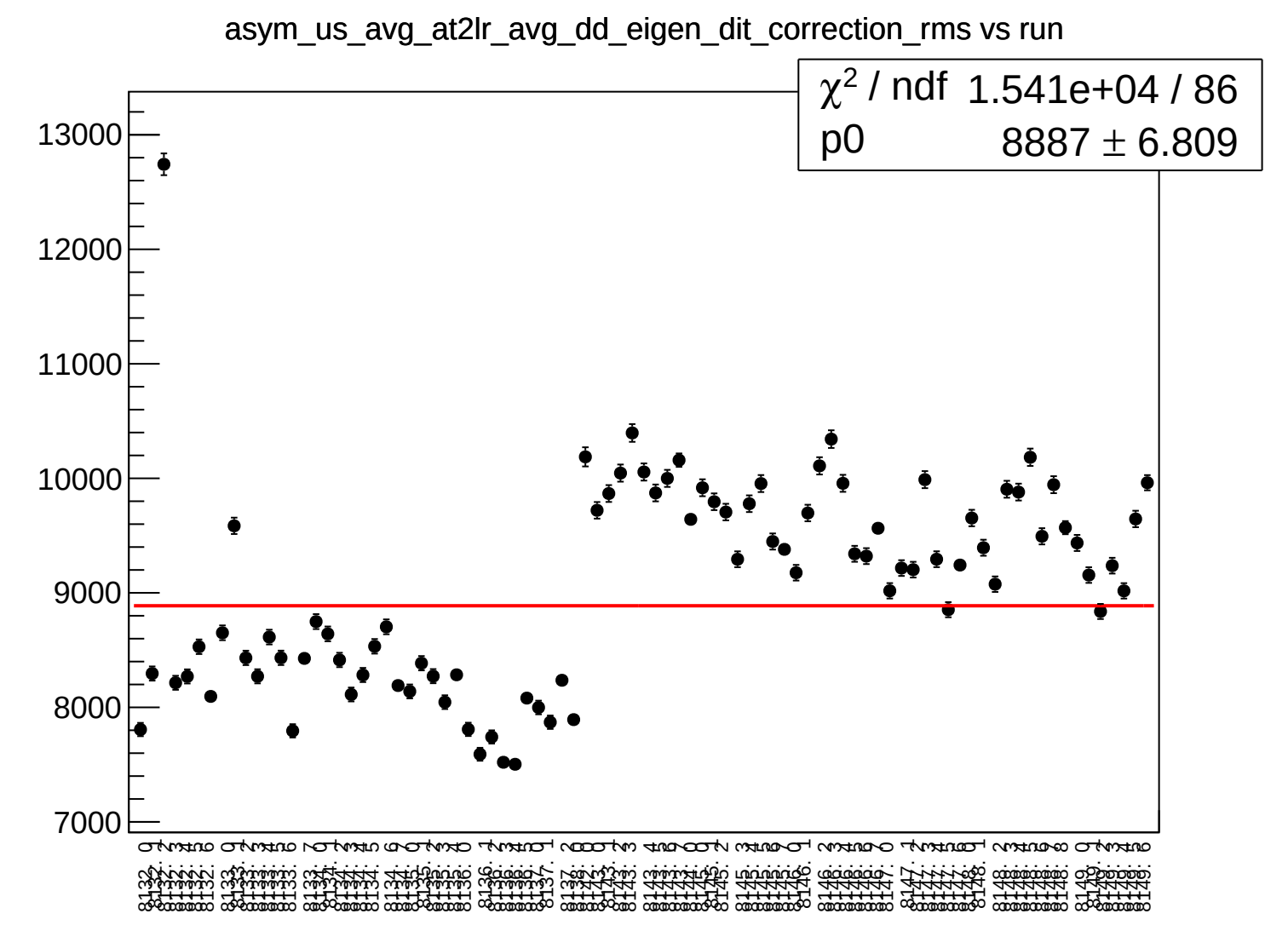
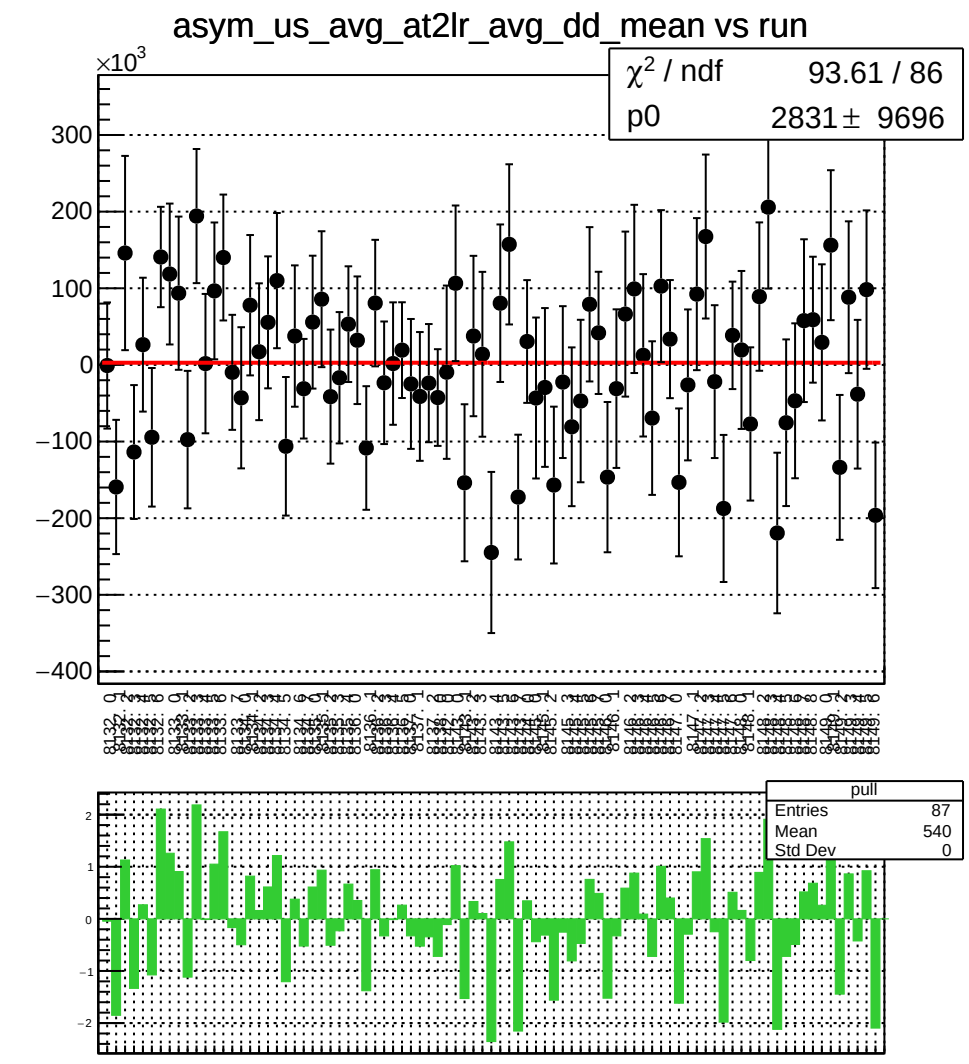
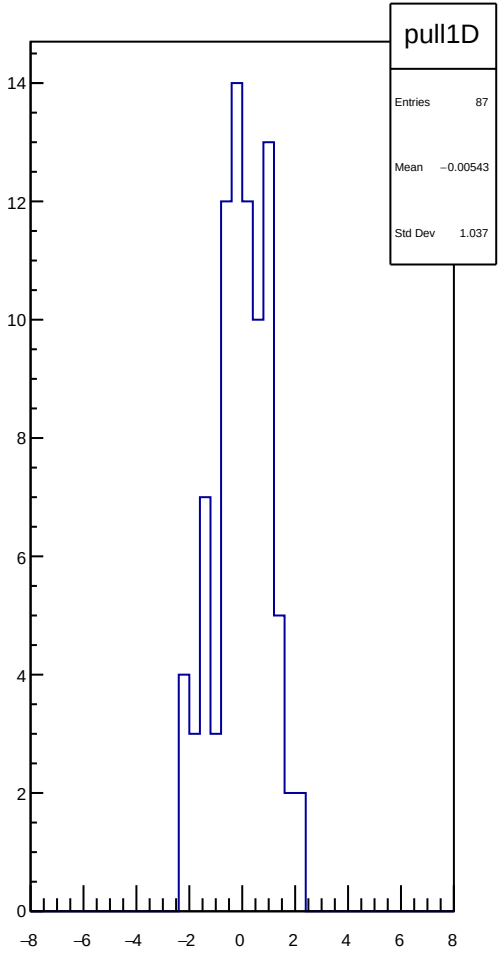
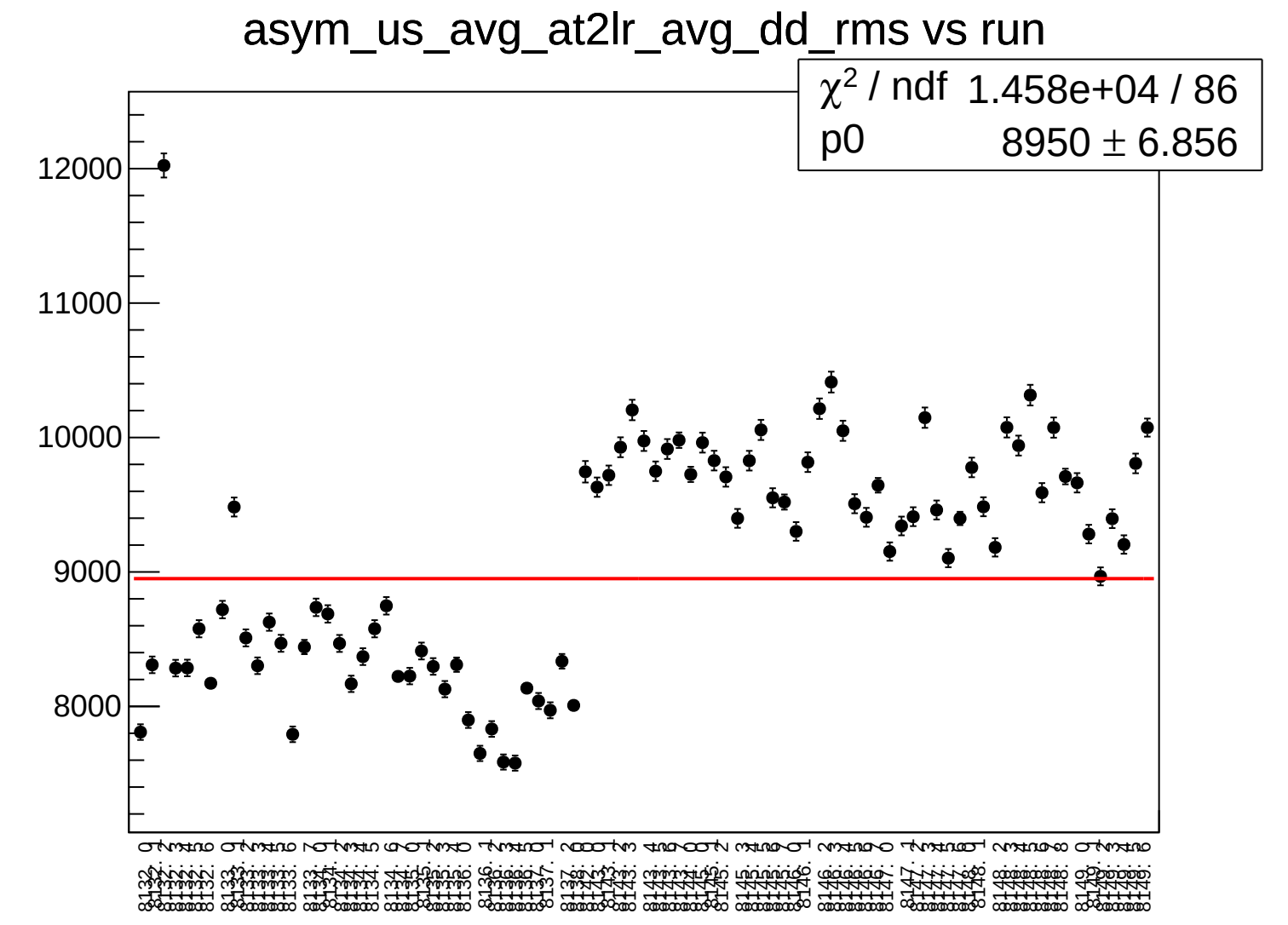
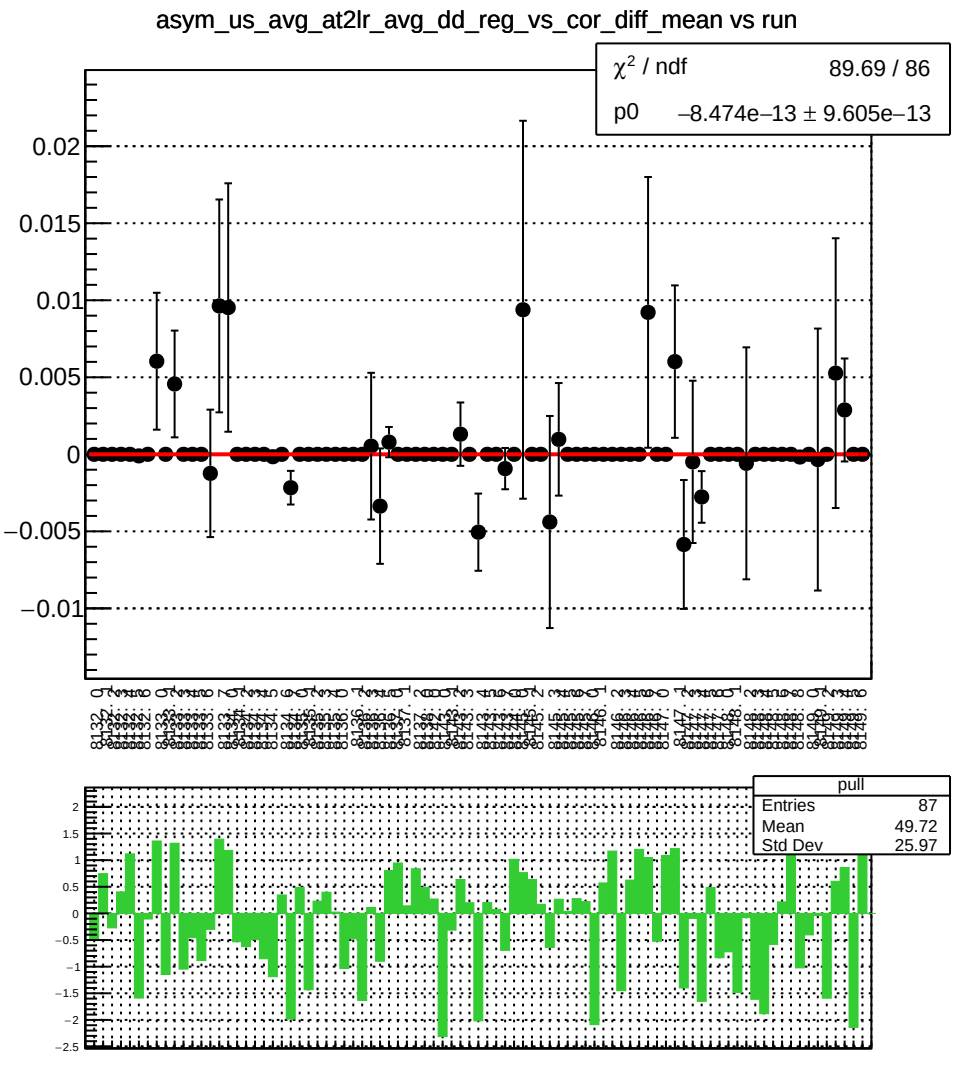
0
2
4
6
8

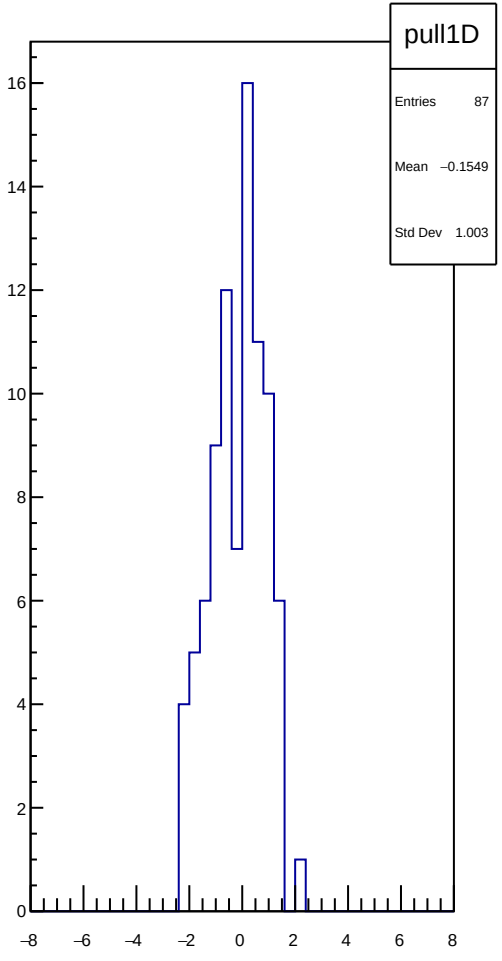

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.541e+04 / 86
p0 8887 ± 6.809
13000
12000
11000
10000
9000
8000
7000

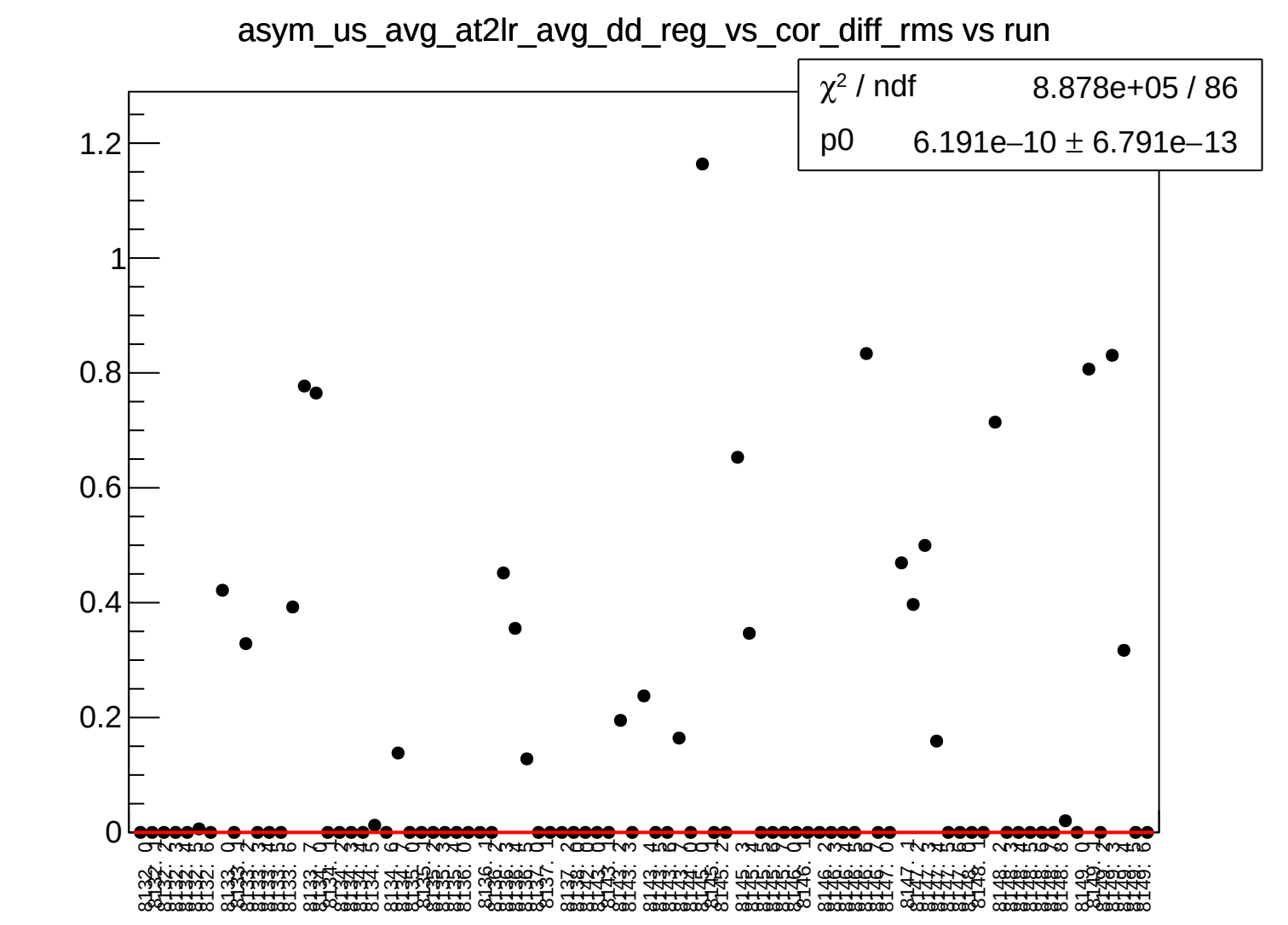

asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ^2 / ndf 93.61 / 86
p0 2831 ± 9696
300
200
100
0
−100
−200
−300
−400
pull
Entries 87
Mean 540
Std Dev 0
2
1
0
−1
−2

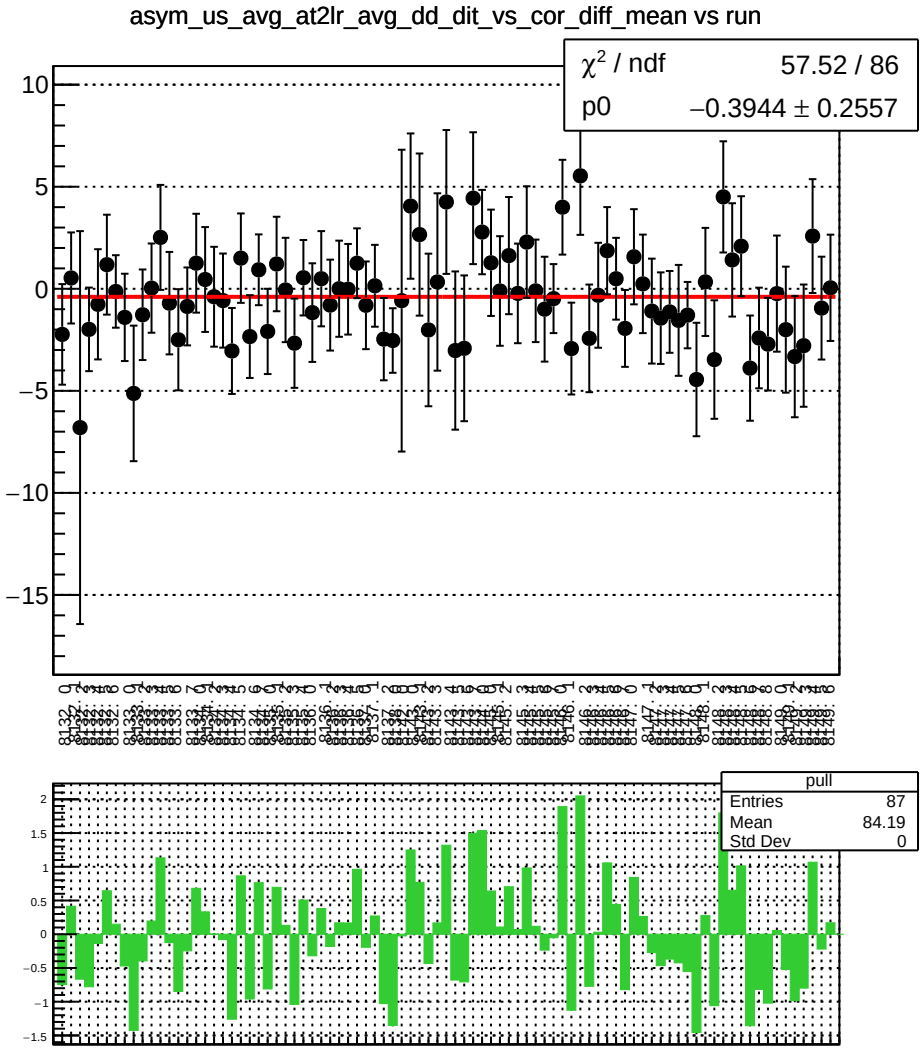

pull1D
Entries 87
Mean −0.00543
Std Dev 1.037
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

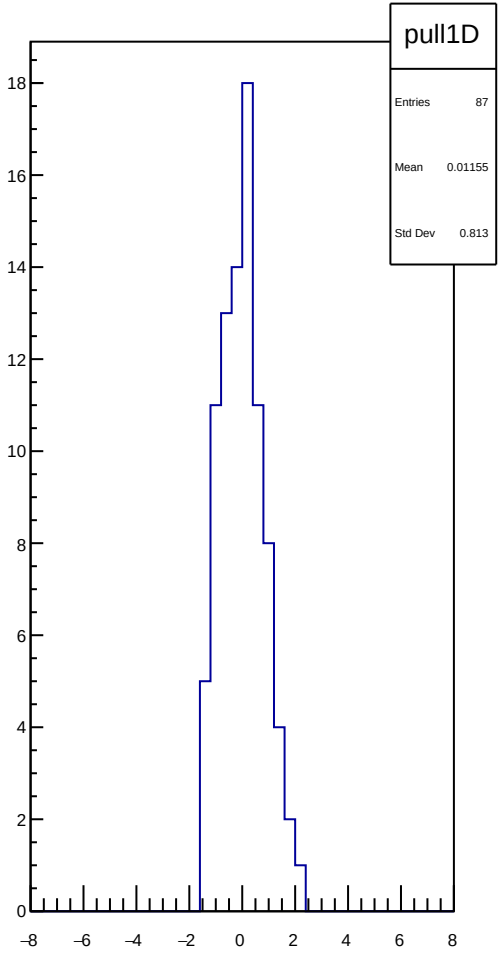

asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 1.458e+04 / 86
p0 8950 ± 6.856
12000
11000
10000
9000
8000

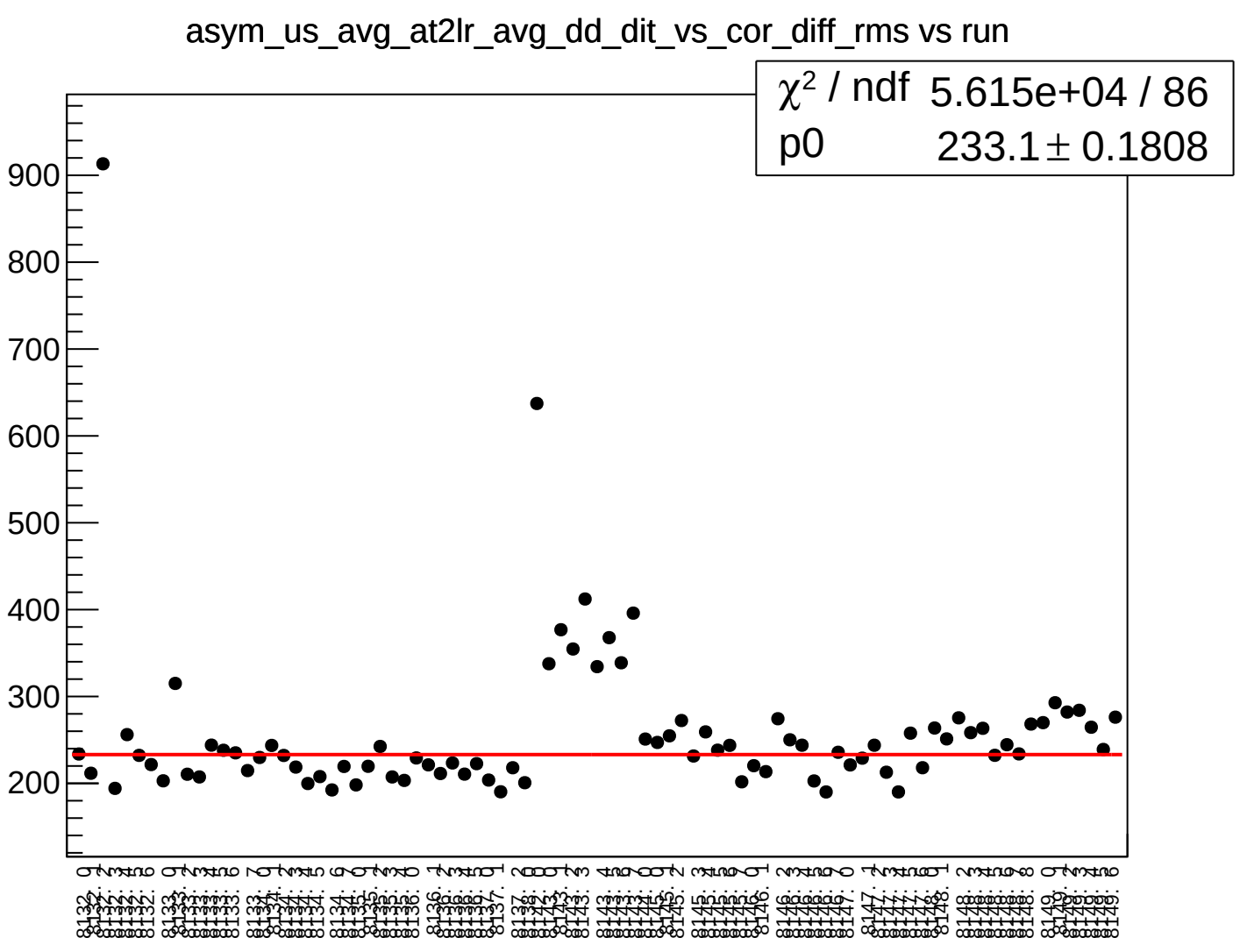

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 89.69 / 86
p0 −8.474e−13 ± 9.605e−13
pull
Entries 87
Mean 49.72
Std Dev 25.97

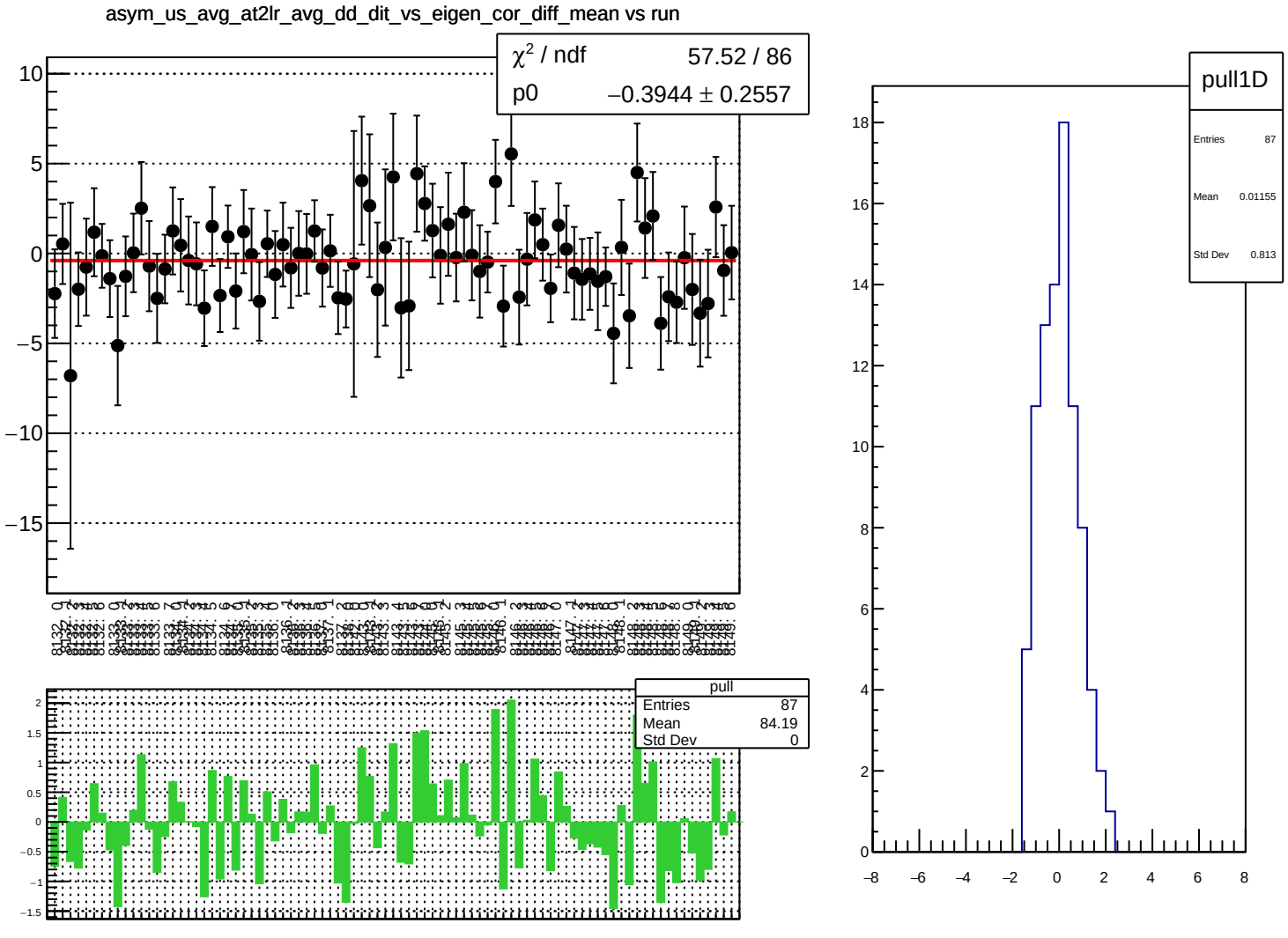

pull1D
Entries 87
Mean −0.1549
Std Dev 1.003

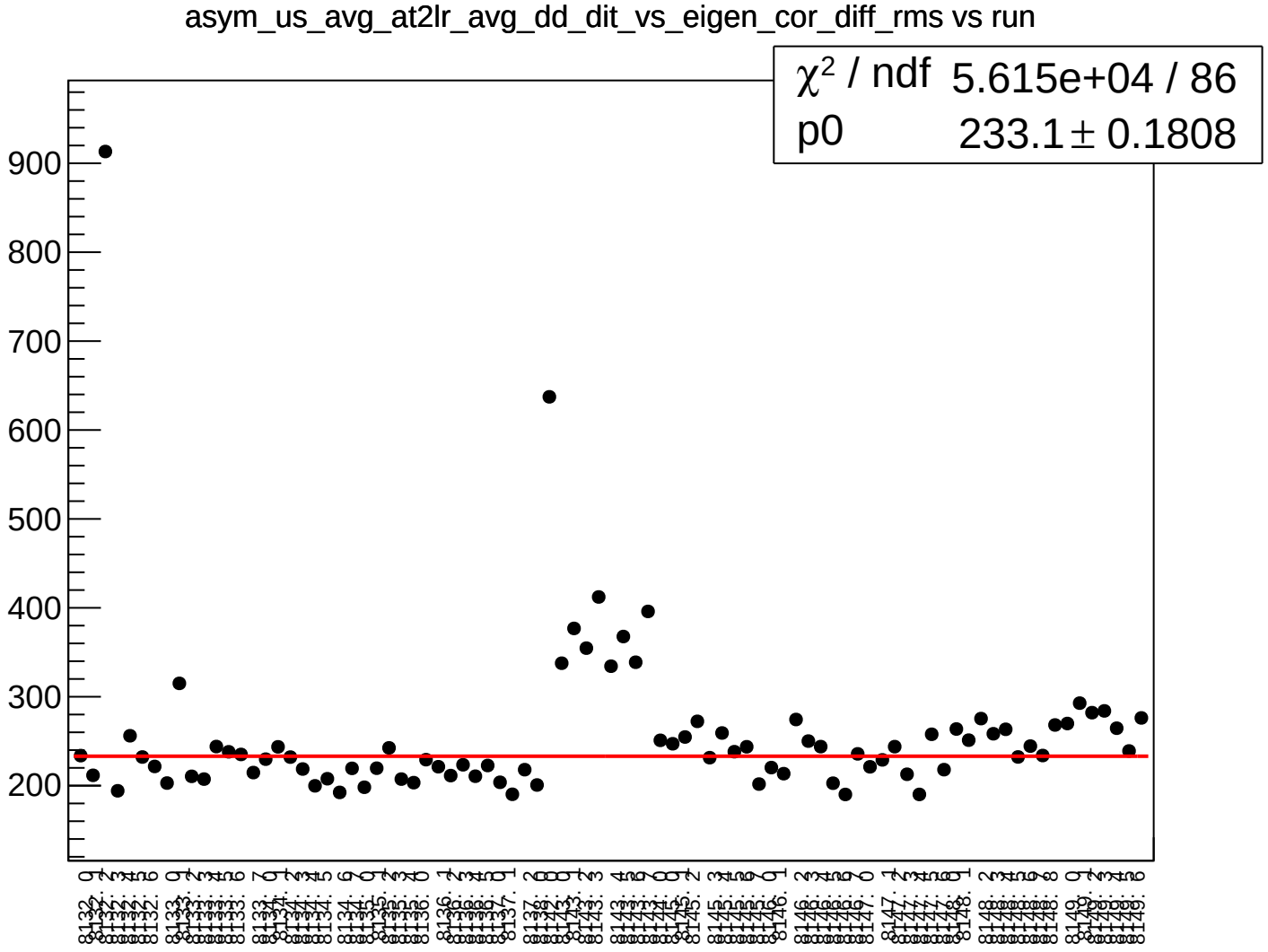

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.878e+05 / 86
p0 6.191e−10 ± 6.791e−13
1.2
1
0.8
0.6
0.4
0.2
0

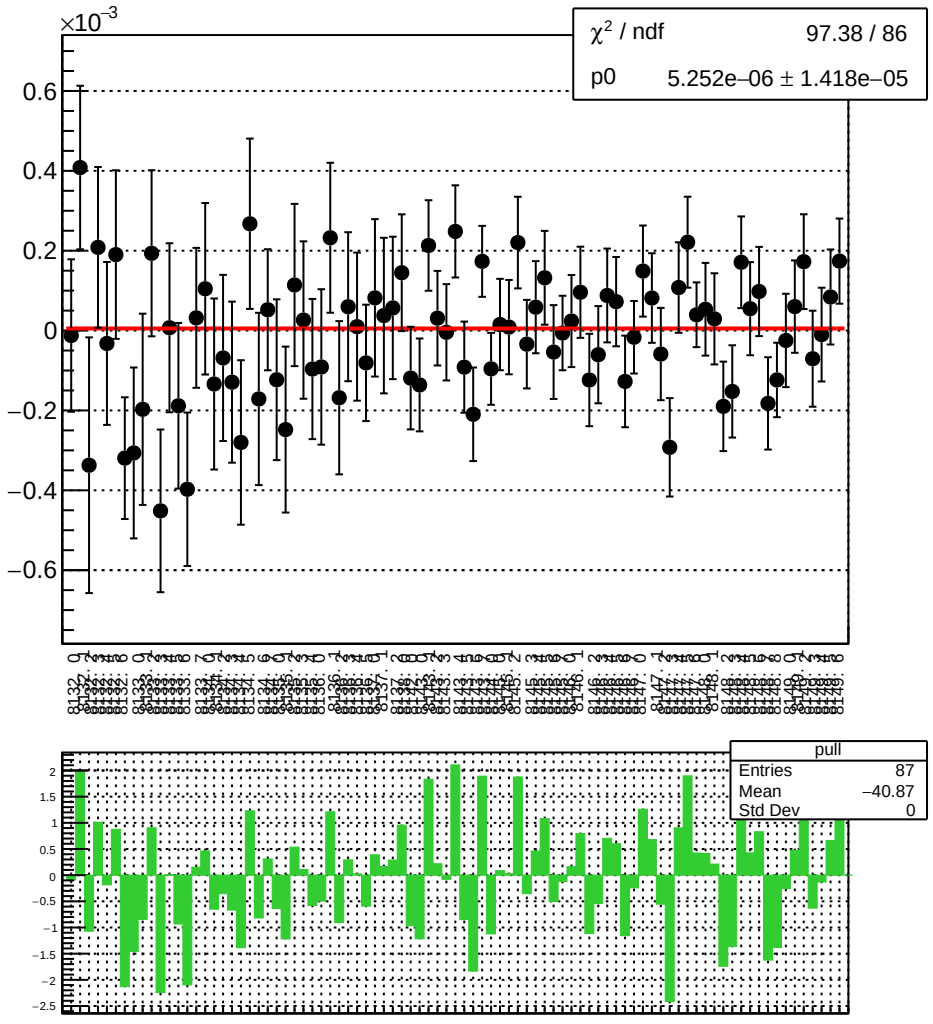

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 57.52 / 86
p0 −0.3944 ± 0.2557
pull
Entries 87
Mean 84.19
Std Dev 0

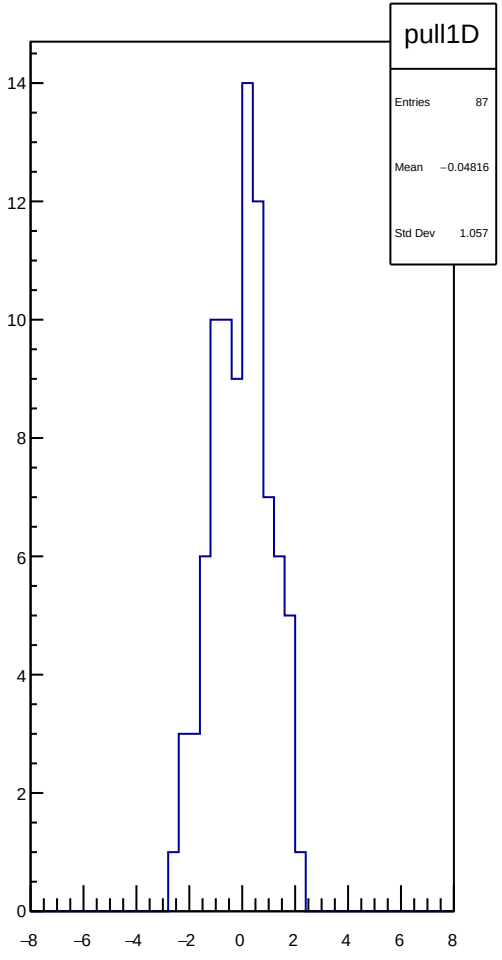

pull1D
Entries 87
Mean 0.01155
Std Dev 0.813

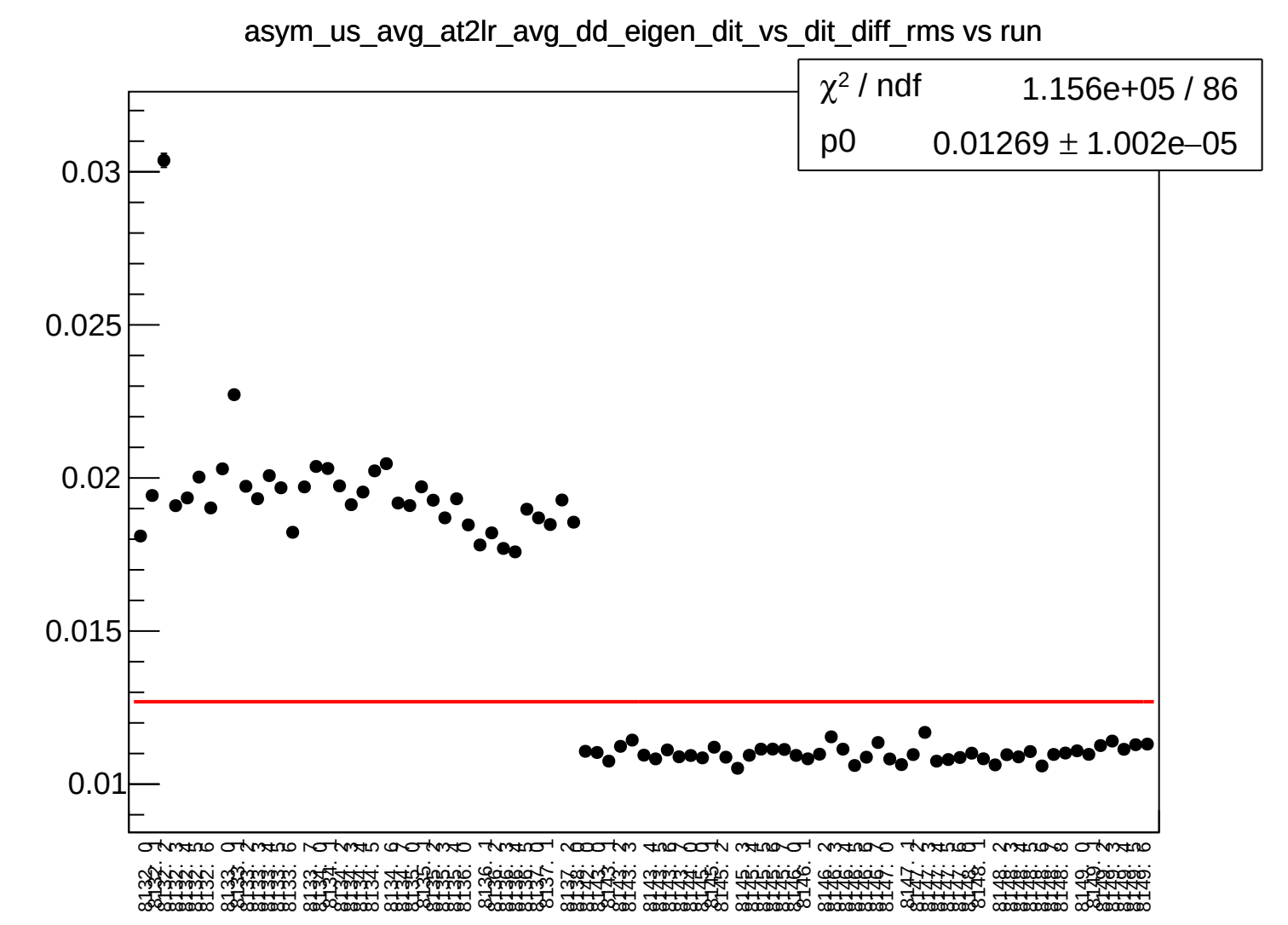

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.615e+04 / 86
p0 233.1 ± 0.1808
900
800
700
600
500
400
300
200

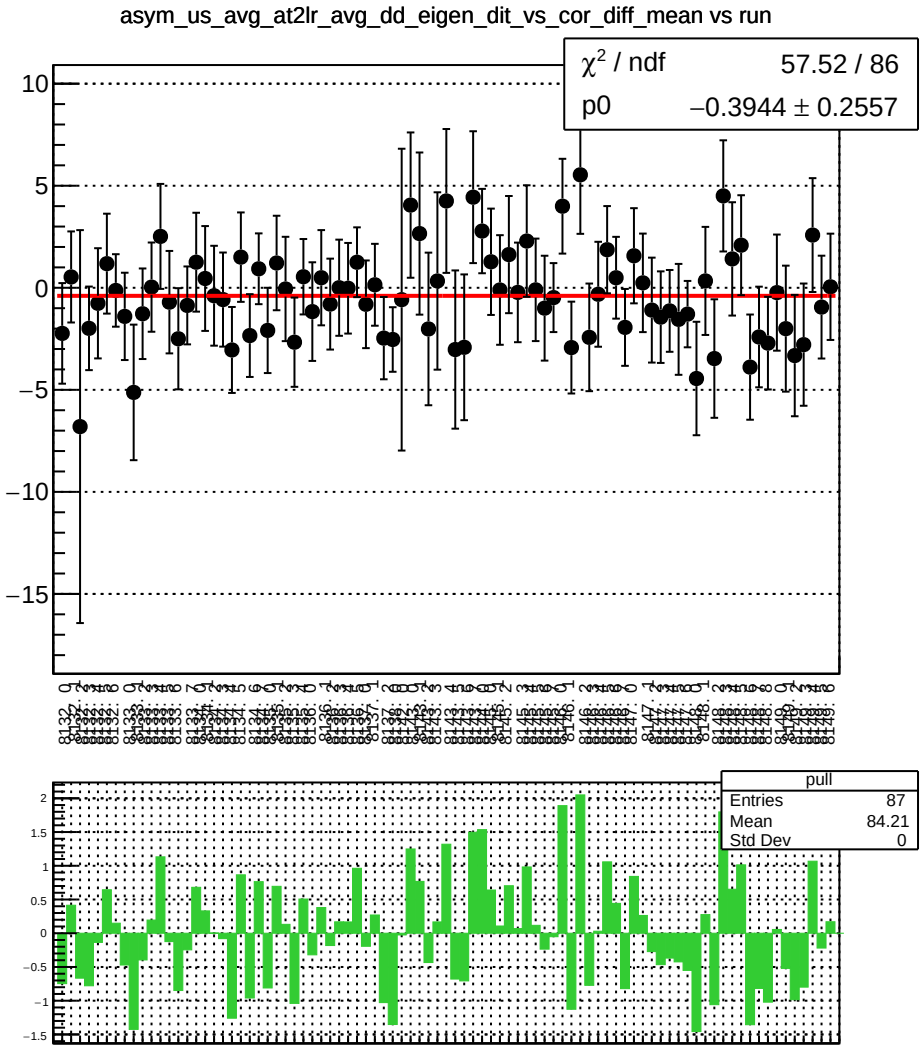

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 57.52 / 86
p0 −0.3944 ± 0.2557
pull
Entries 87
Mean 84.19
Std Dev 0
pull1D
Entries 87
Mean 0.01155
Std Dev 0.813

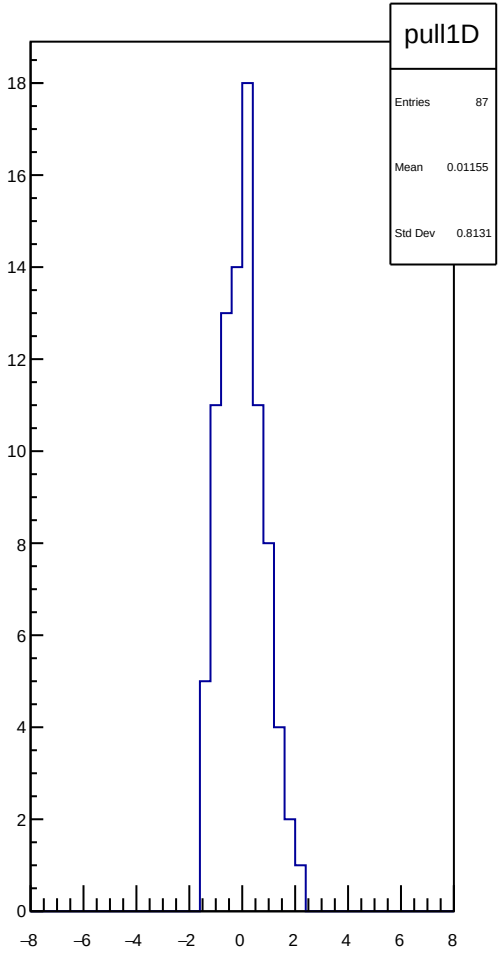

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.615e+04 / 86
p0 233.1 ± 0.1808
900
800
700
600
500
400
300
200

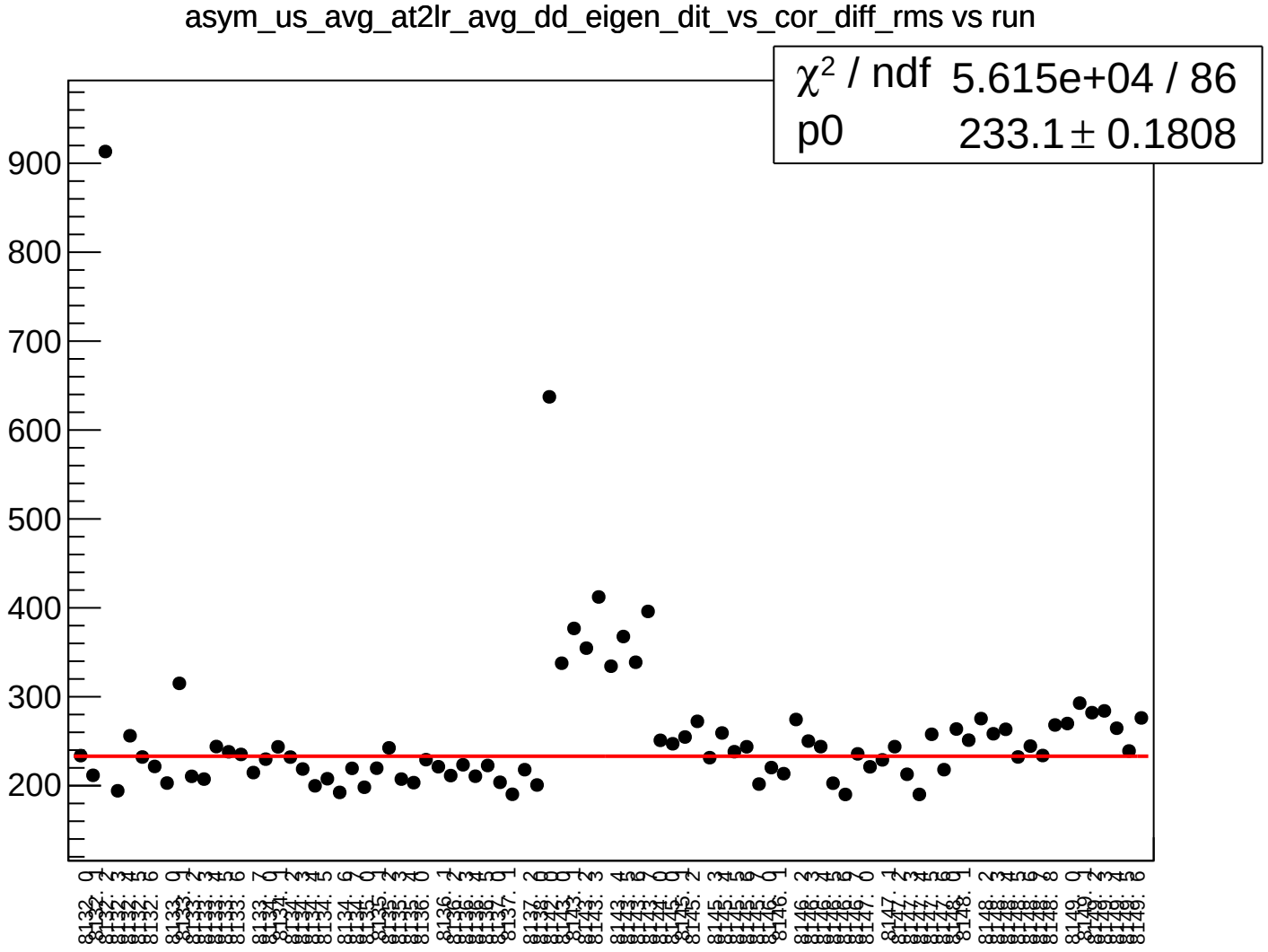

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.38 / 86
p0 5.252e−06 ± 1.418e−05
pull
Entries 87
Mean −40.87
Std Dev 0

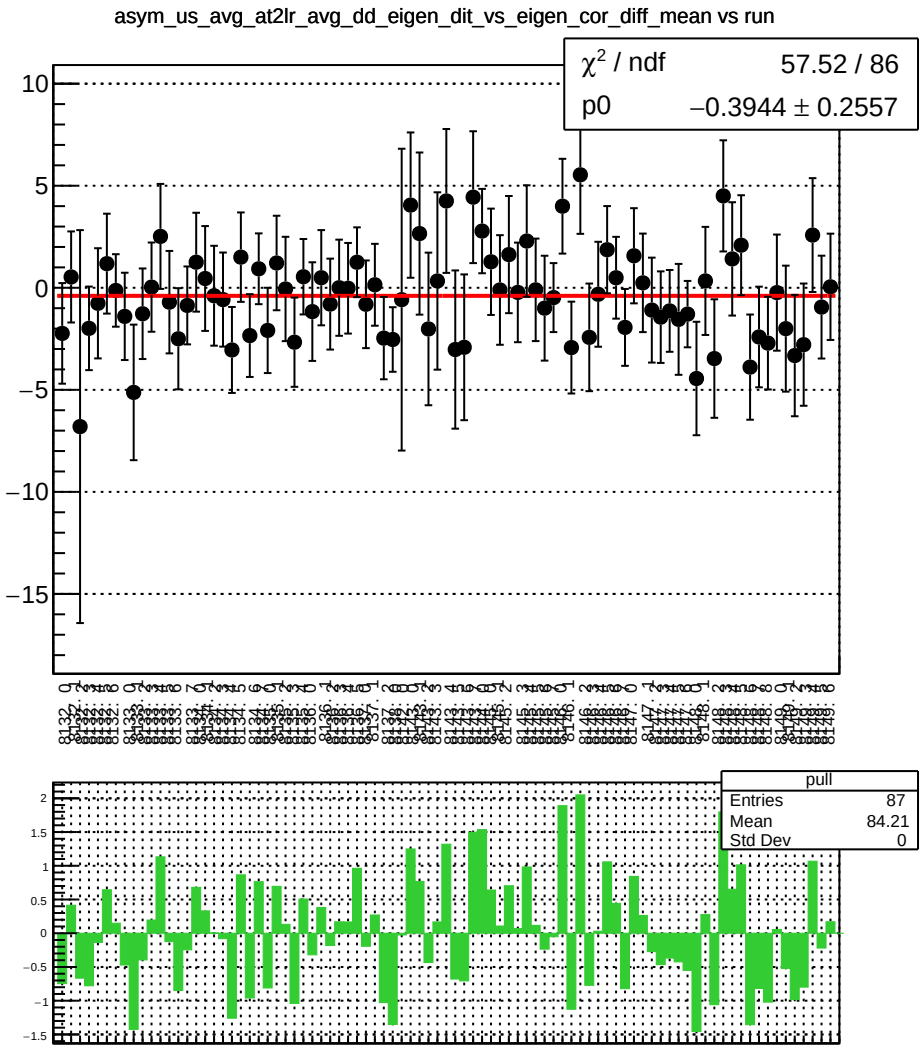

pull1D
Entries 87
Mean −0.04816
Std Dev 1.057

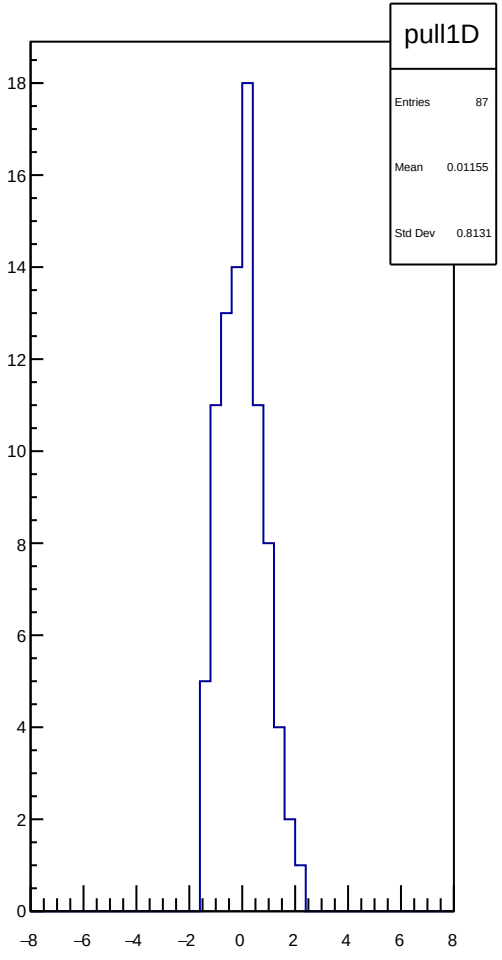

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.156e+05 / 86
p0 0.01269 ± 1.002e−05
0.03
0.025
0.02
0.015
0.01

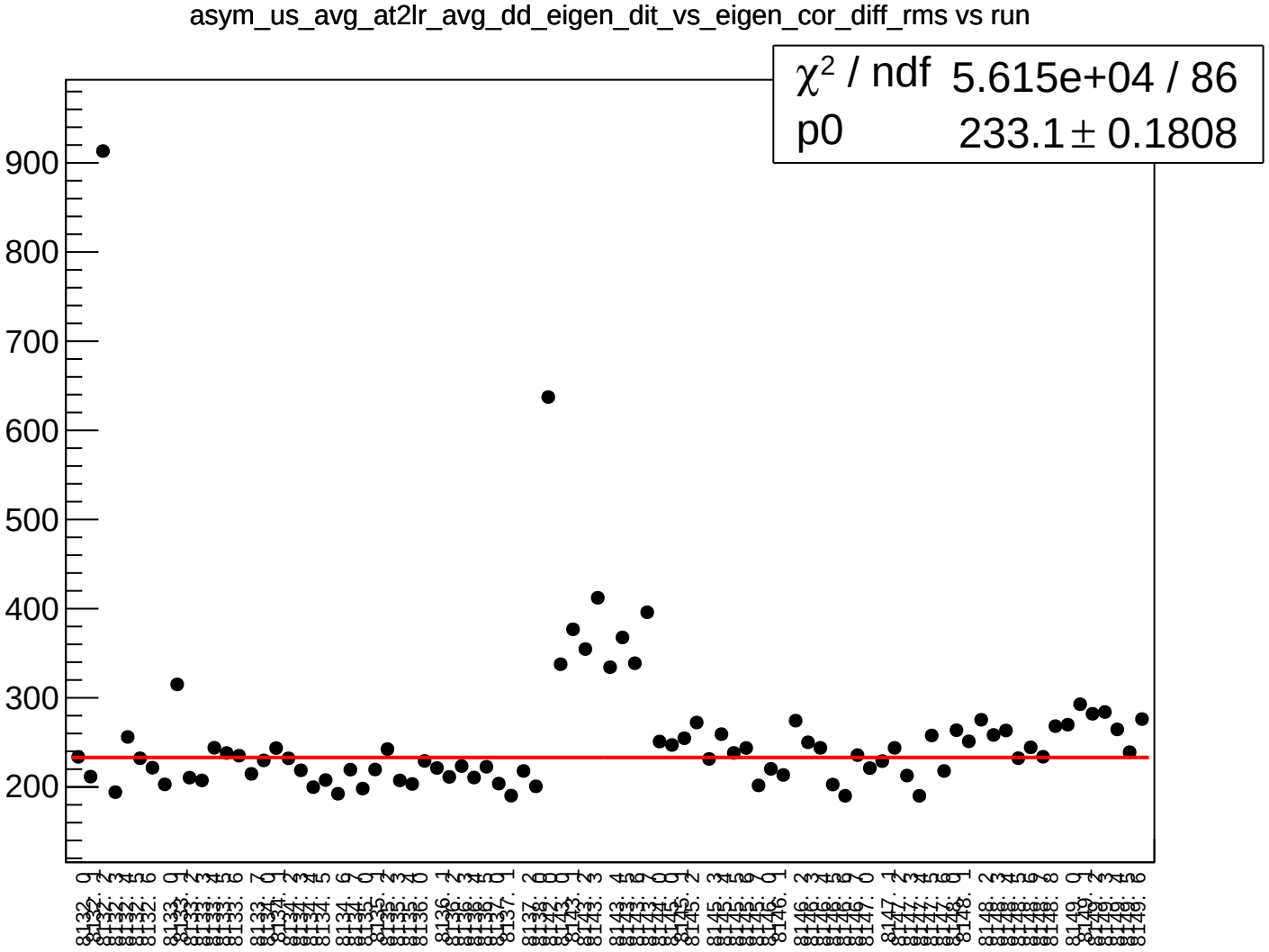

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 57.52 / 86
p0 −0.3944 ± 0.2557
pull
Entries 87
Mean 84.21
Std Dev 0

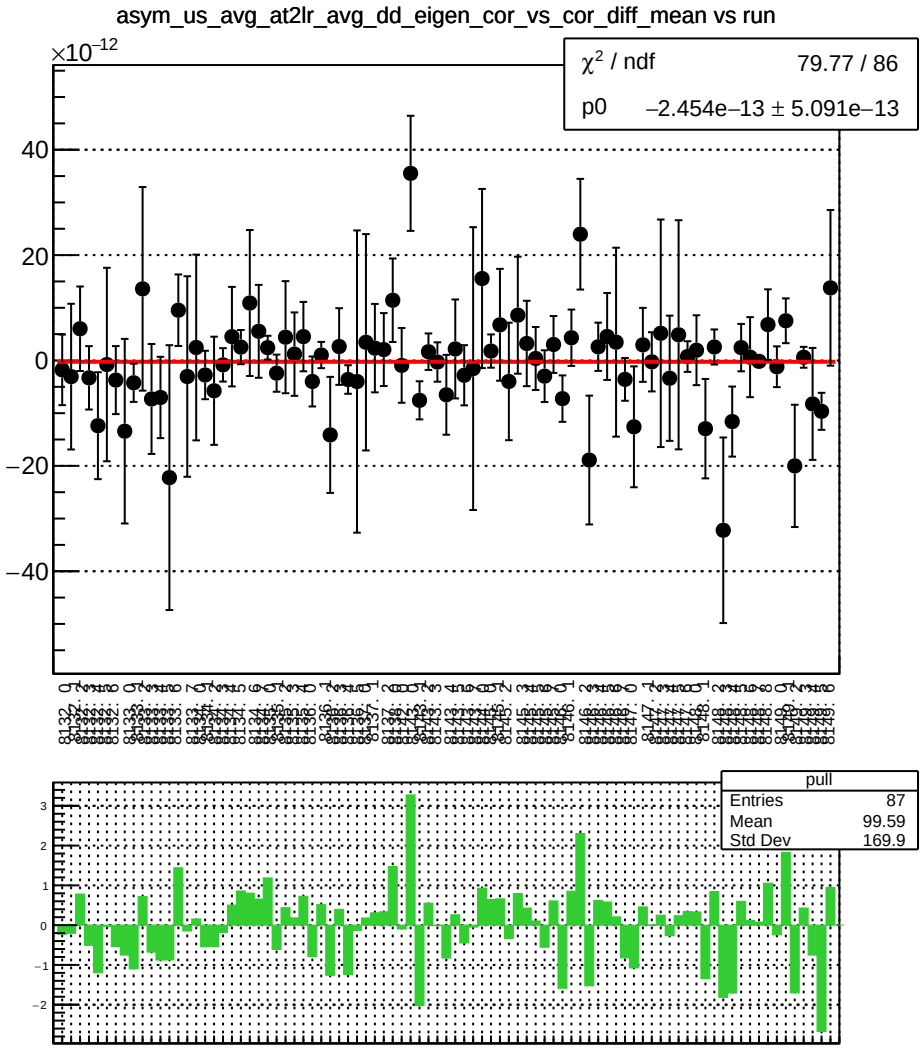

pull1D
Entries 87
Mean 0.01155
Std Dev 0.8131

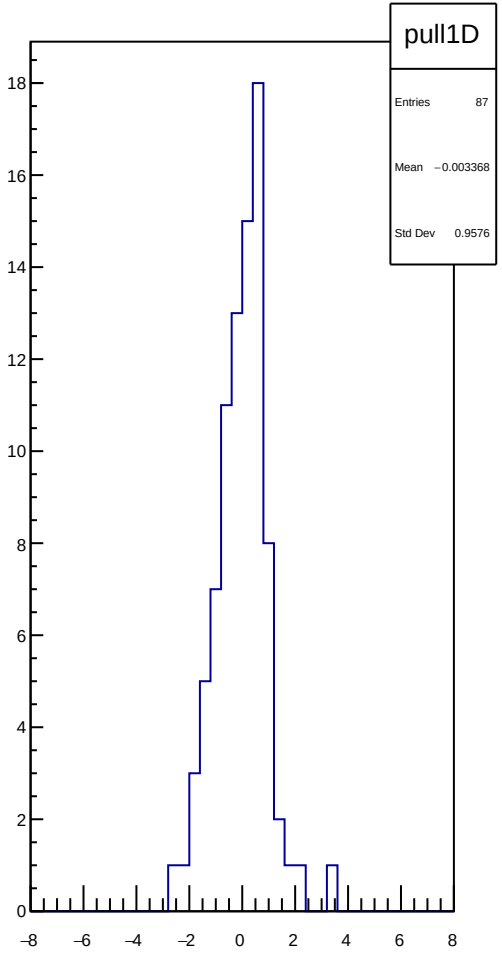

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.615e+04 / 86
p0 233.1 ± 0.1808
900
800
700
600
500
400
300
200

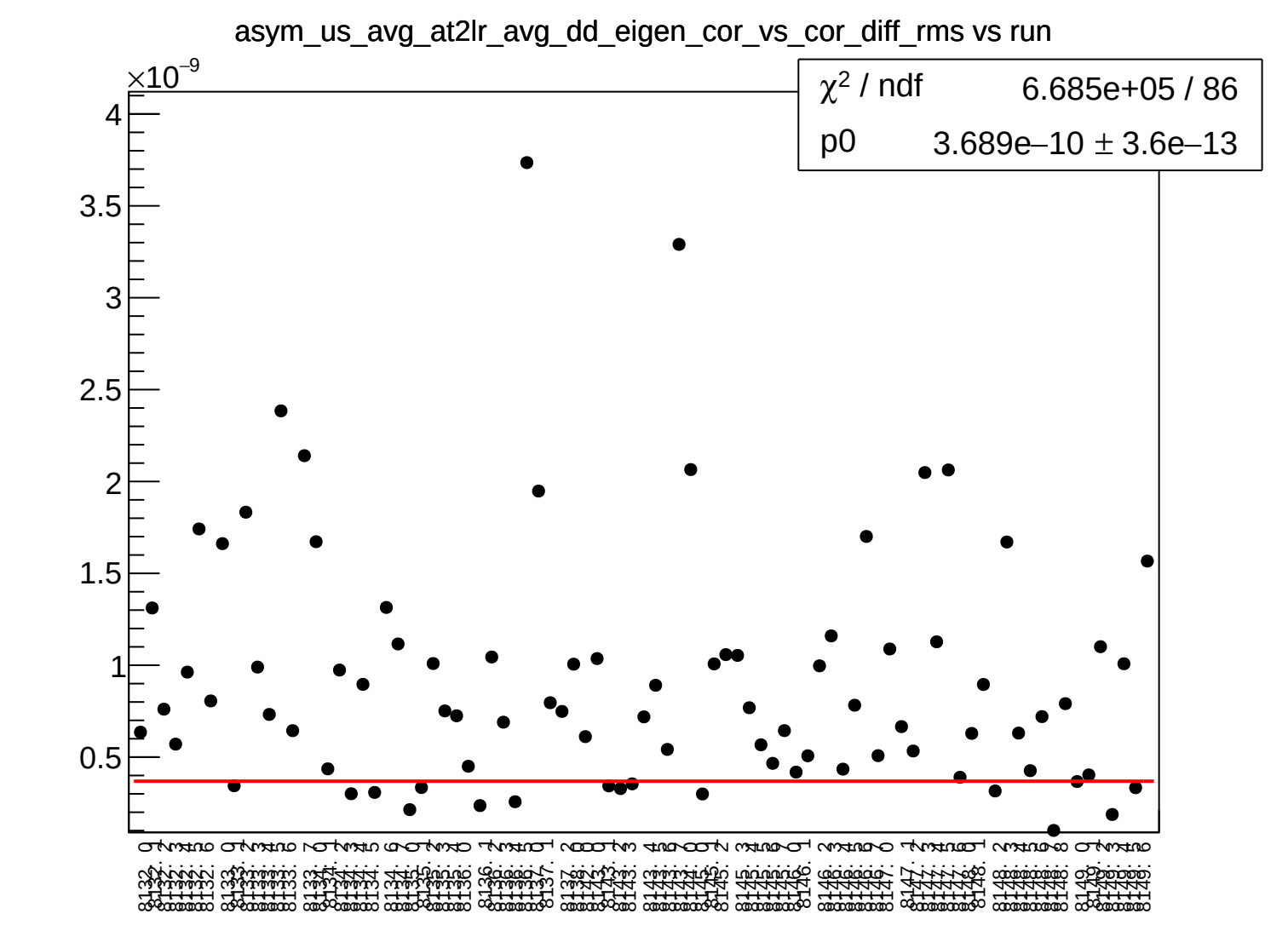

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 57.52 / 86
p0 −0.3944 ± 0.2557
pull
Entries 87
Mean 84.21
Std Dev 0

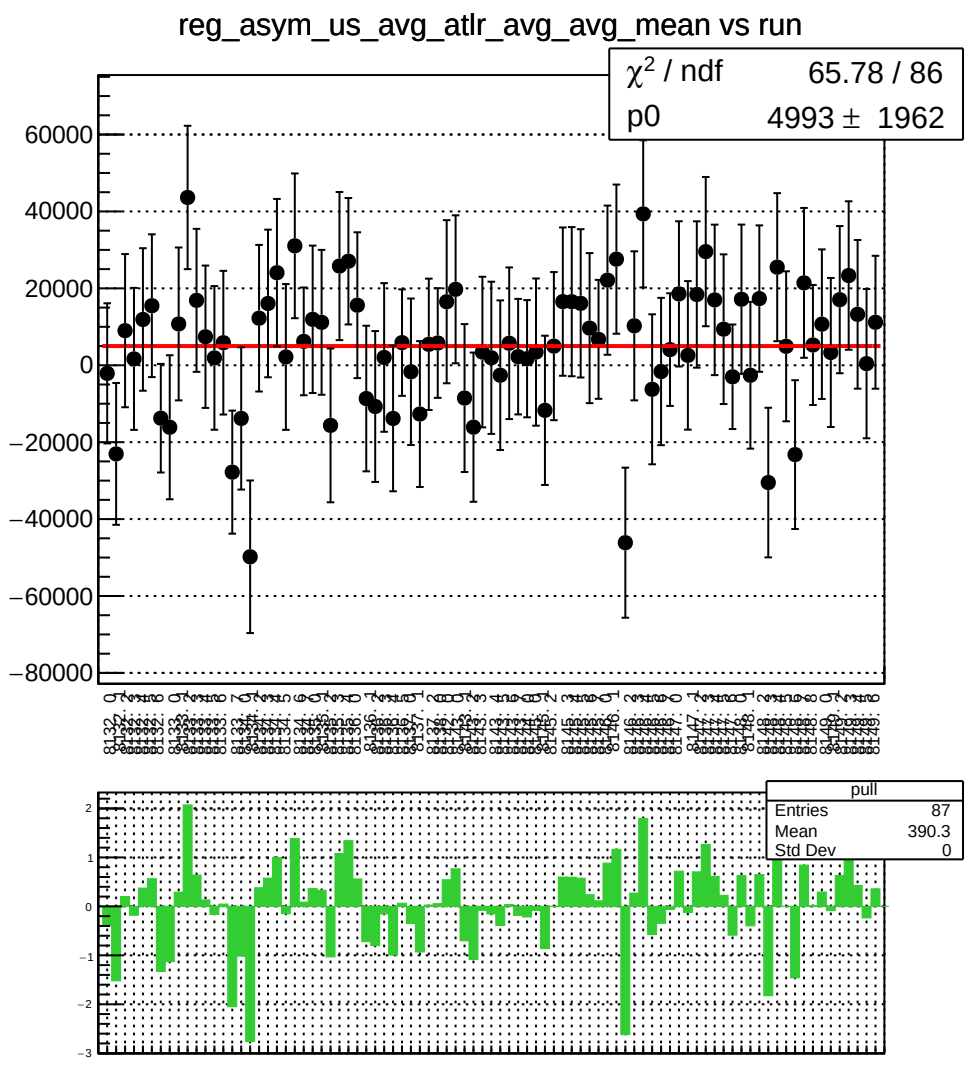

pull1D
Entries 87
Mean 0.01155
Std Dev 0.8131

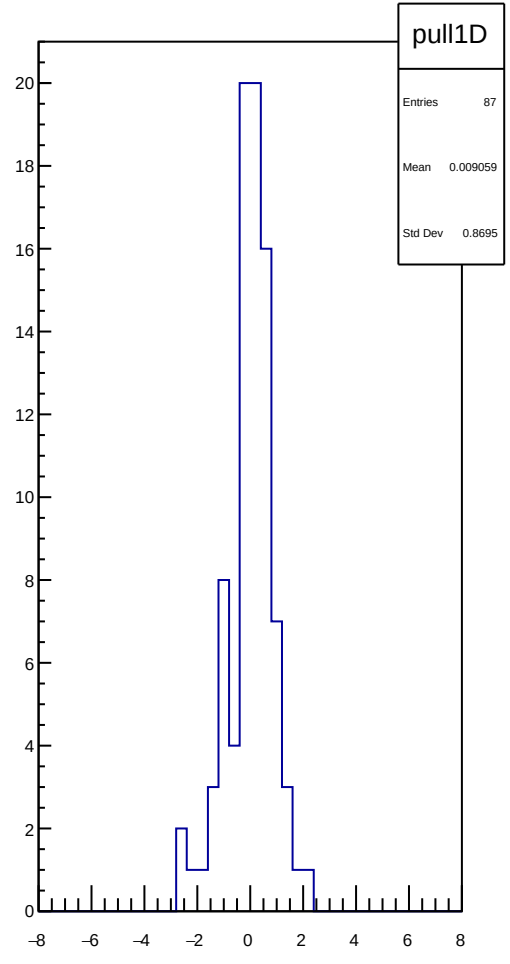

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.615e+04 / 86
p0 233.1 ± 0.1808
900
800
700
600
500
400
300
200

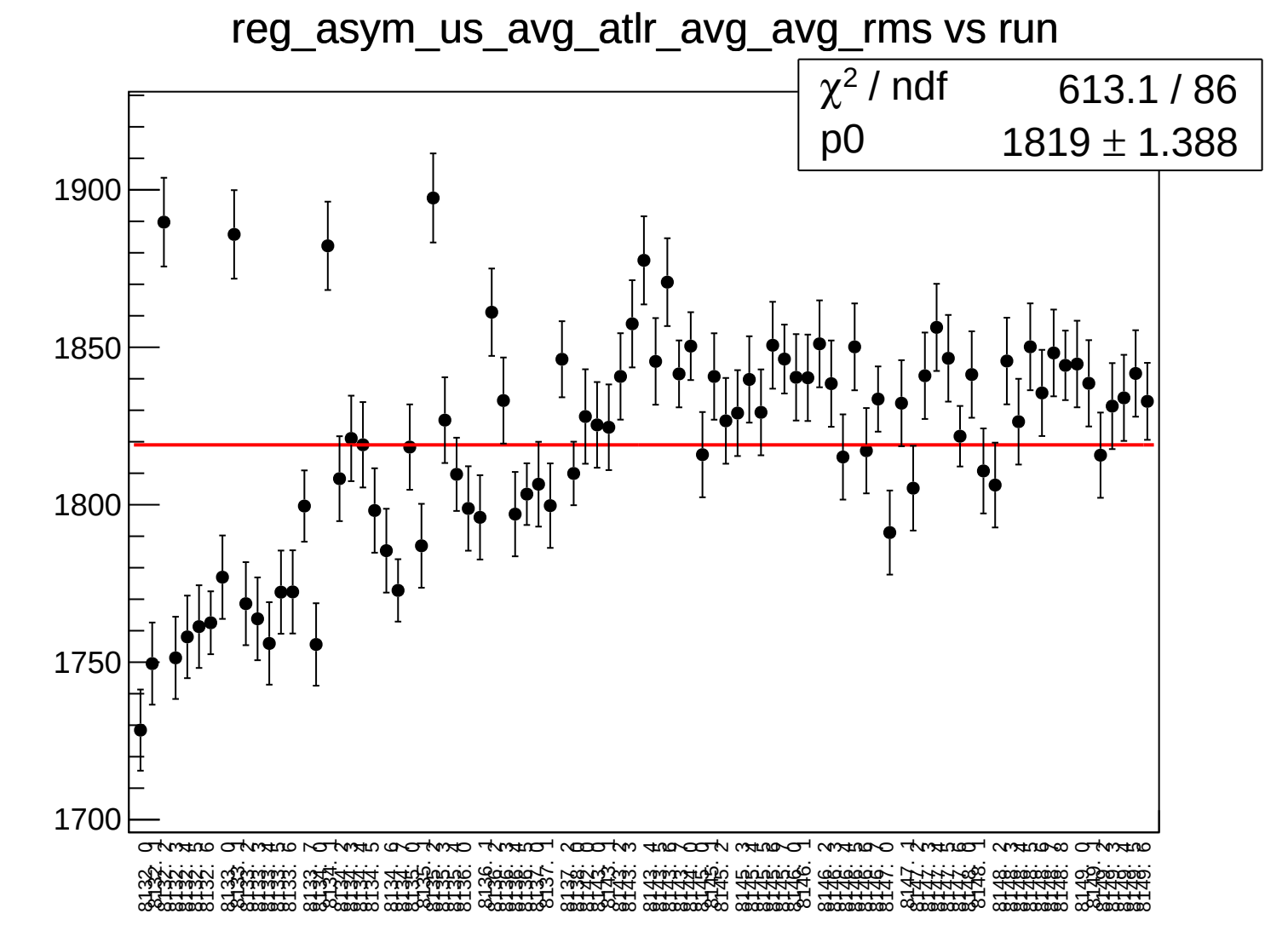

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.77 / 86
p0 −2.454e−13 ± 5.091e−13
40
20
0
−20
−40
pull
Entries 87
Mean 99.59
Std Dev 169.9
3
2
1
0
−1
−2

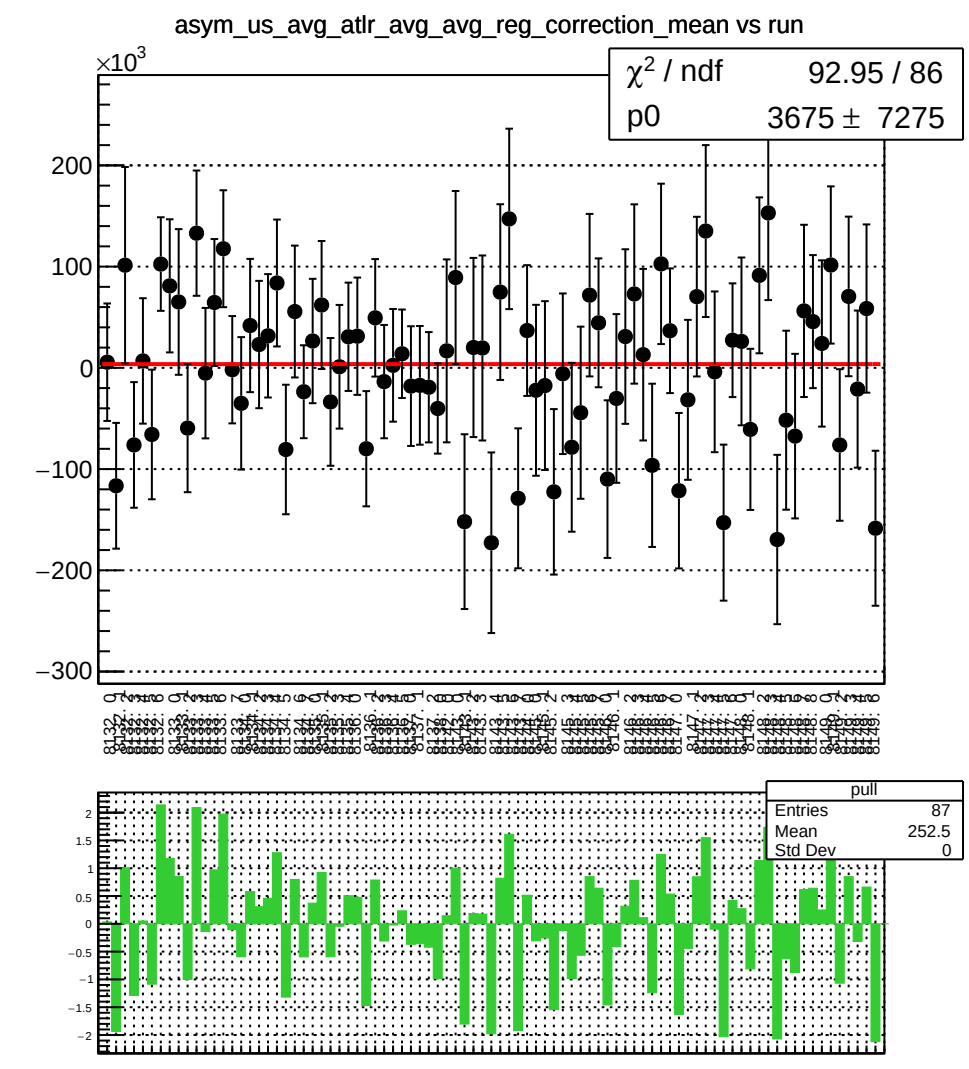

pull1D
Entries 87
Mean −0.003368
Std Dev 0.9576
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

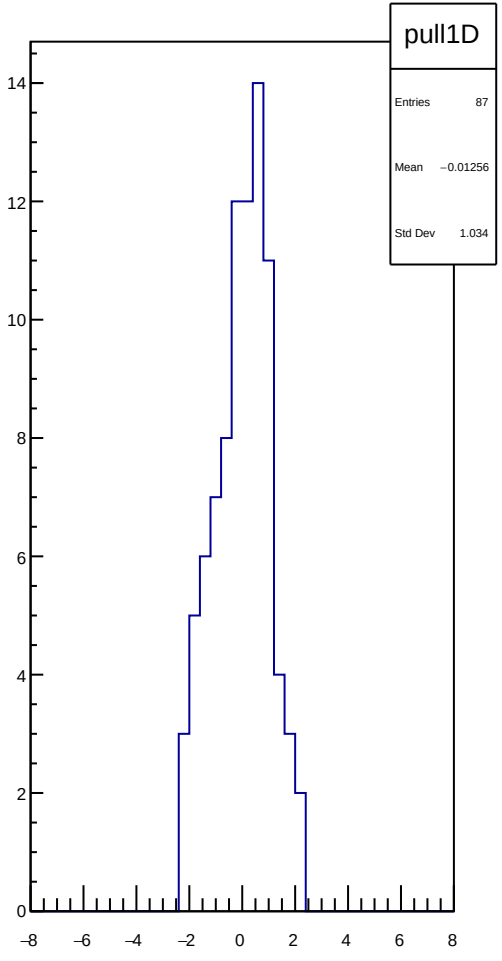

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.685e+05 / 86
p0 3.689e−10 ± 3.6e−13
4
3.5
3
2.5
2
1.5
1
0.5

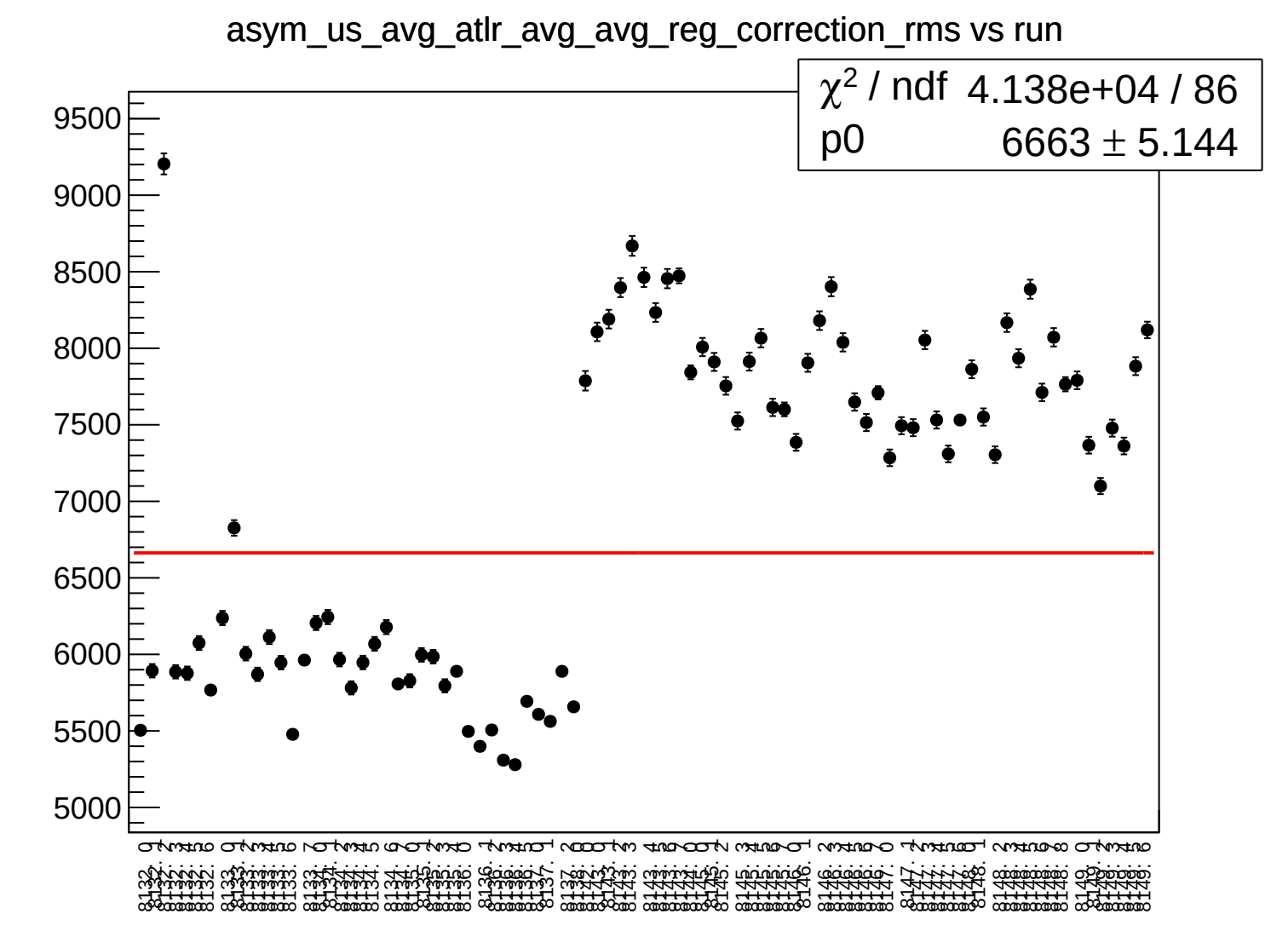

reg_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 65.78 / 86
p0 4993 ± 1962
pull
Entries 87
Mean 390.3
Std Dev 0

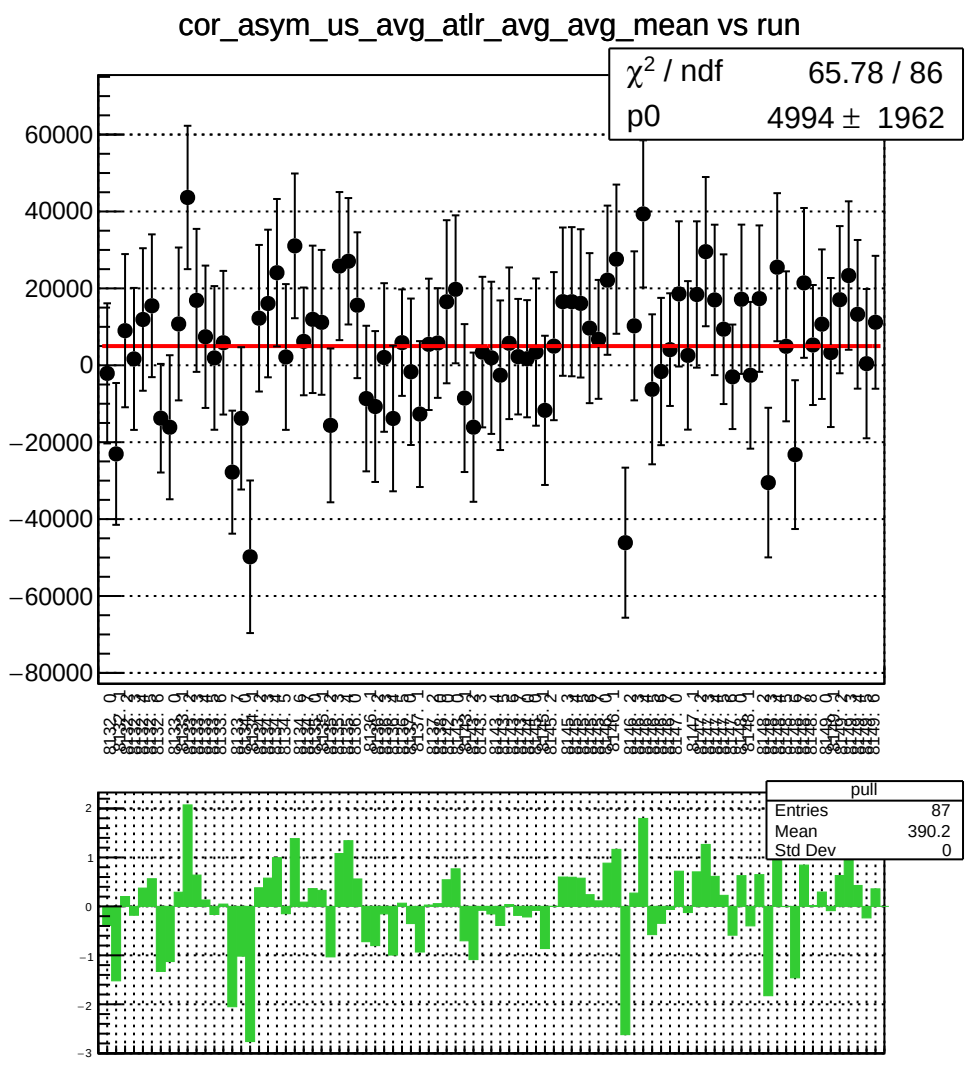

pull1D
Entries 87
Mean 0.009059
Std Dev 0.8695

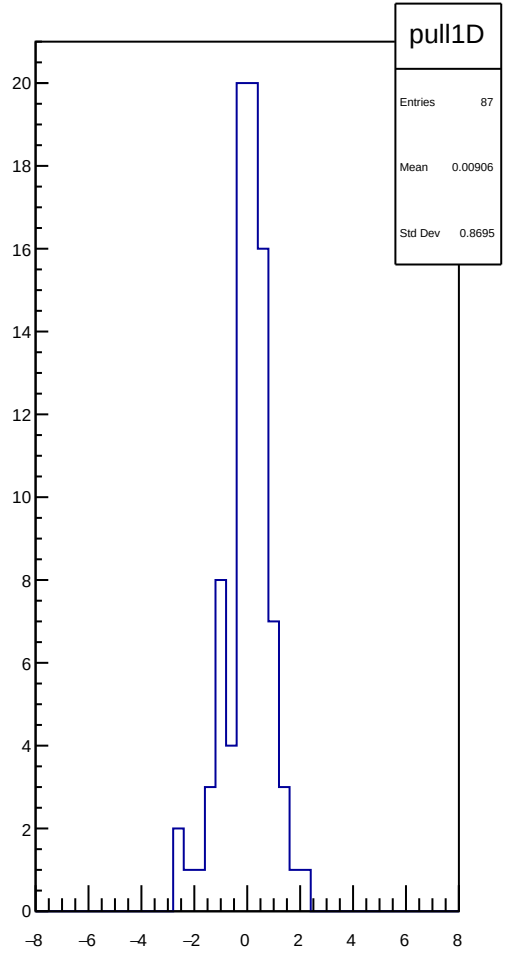

reg_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 613.1 / 86
p0 1819 ± 1.388
1900
1850
1800
1750
1700

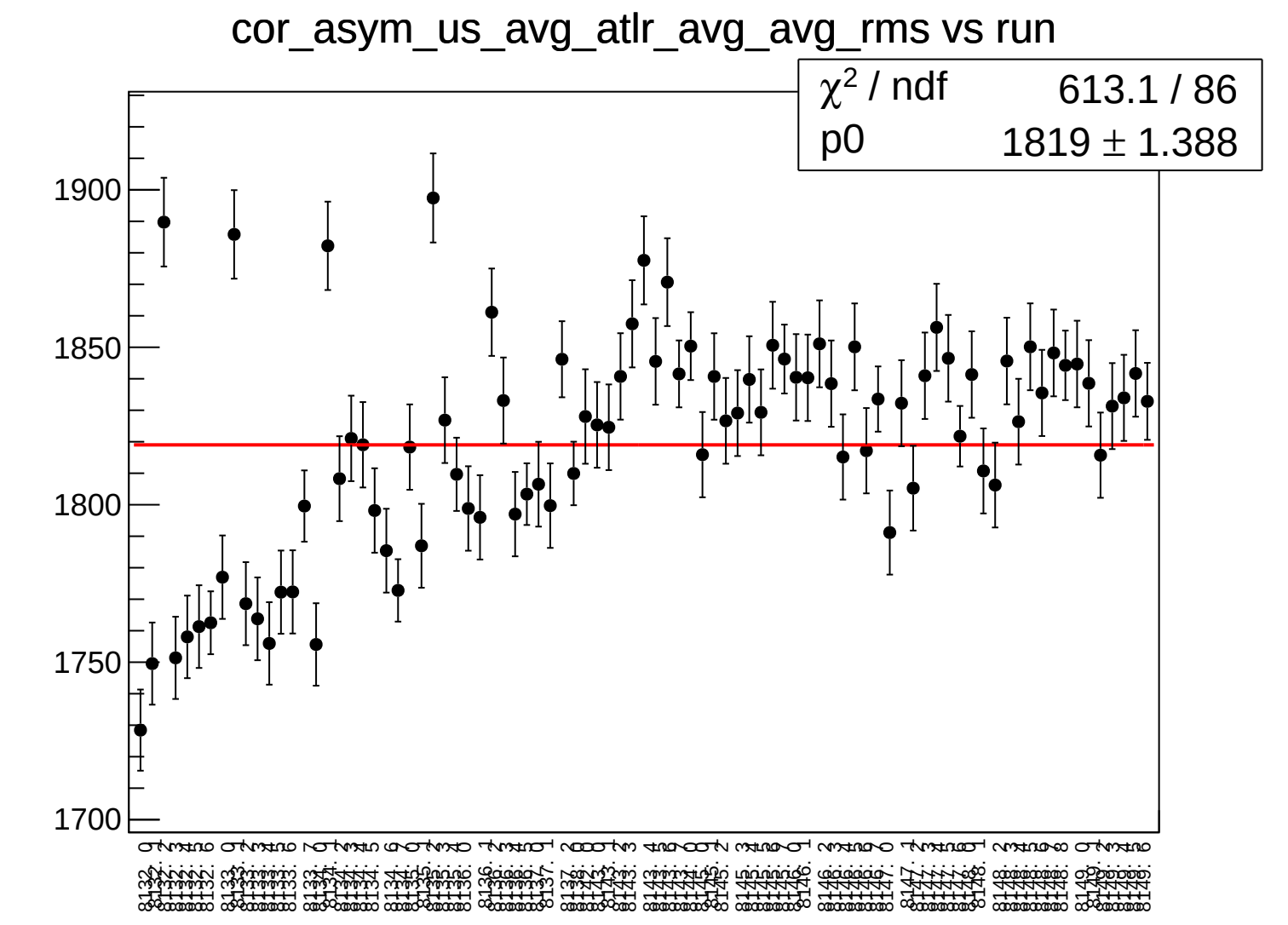

asym_us_avg_atlr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 92.95 / 86
p0 3675 ± 7275
200
100
0
−100
−200
−300
pull
Entries 87
Mean 252.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

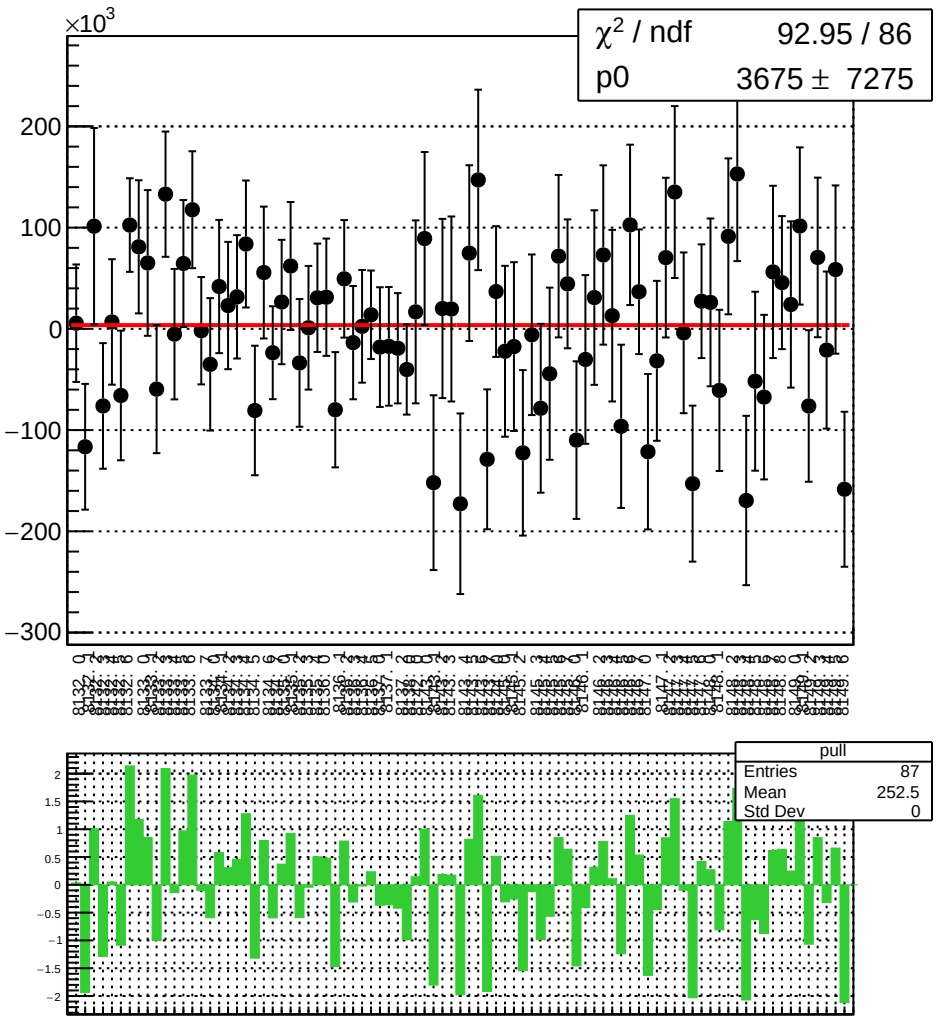

pull1D
Entries 87
Mean −0.01256
Std Dev 1.034
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

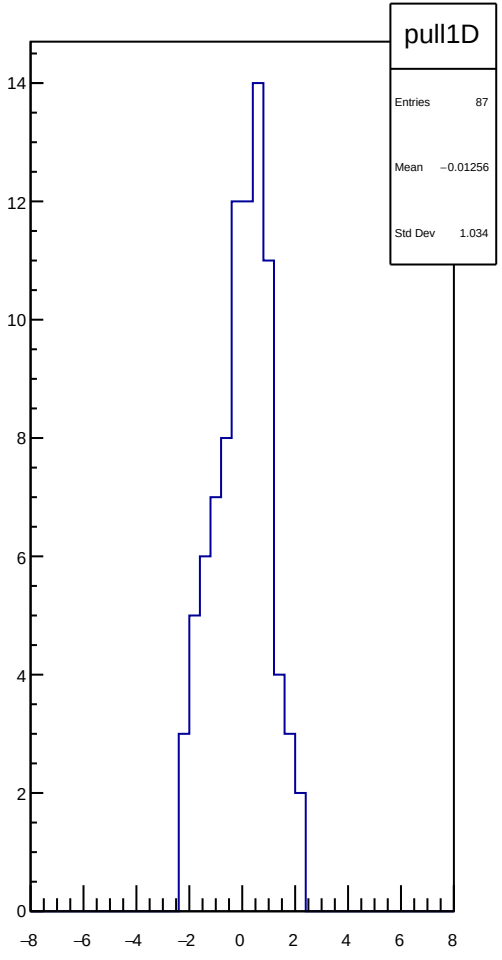

asym_us_avg_atlr_avg_avg_reg_correction_rms vs run
χ^2 / ndf 4.138e+04 / 86
p0 6663 ± 5.144
9500
9000
8500
8000
7500
7000
6500
6000
5500
5000

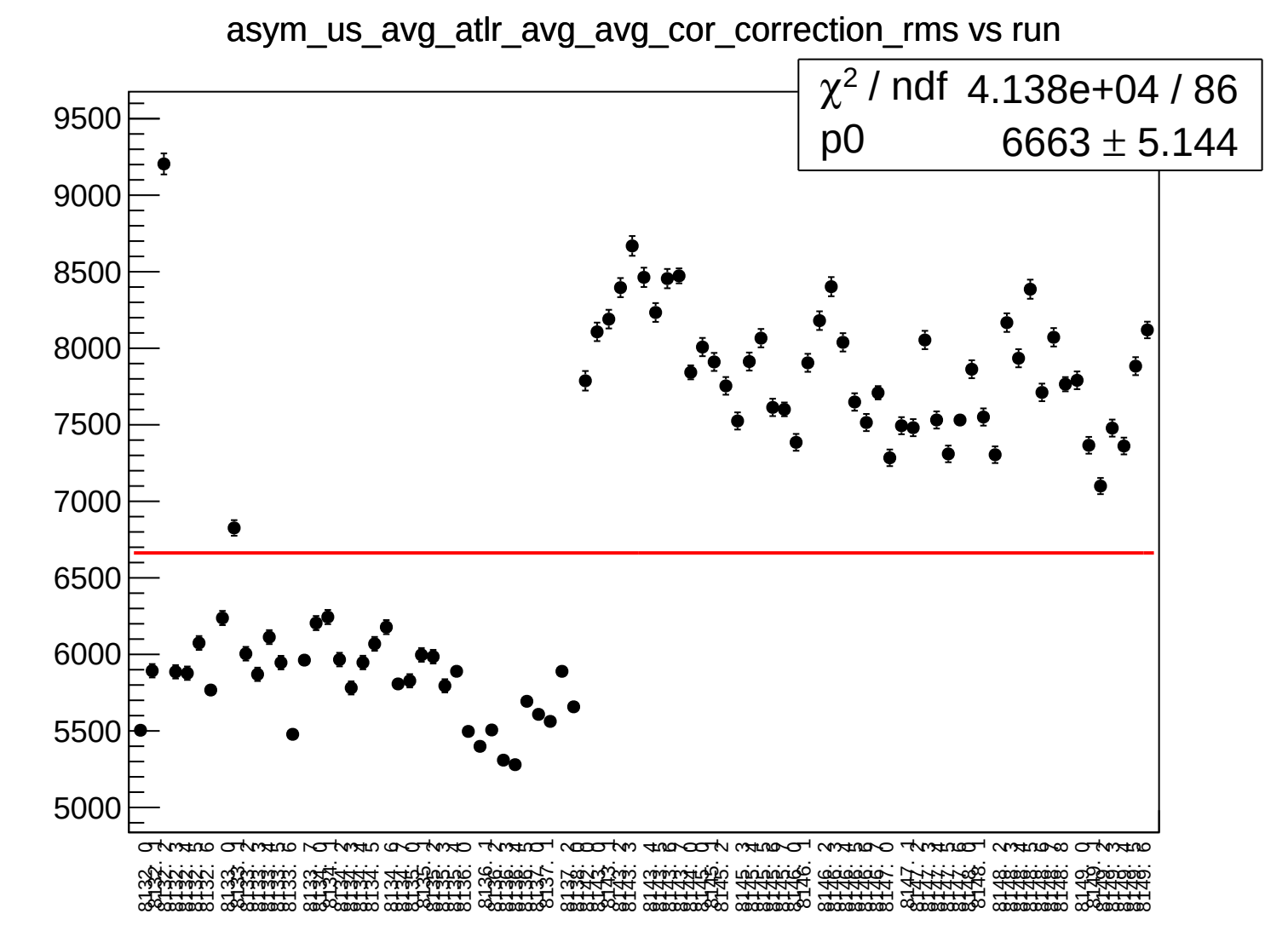

cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 65.78 / 86
p0 4994 ± 1962
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean 390.2
Std Dev 0
2
1
0
−1
−2
−3

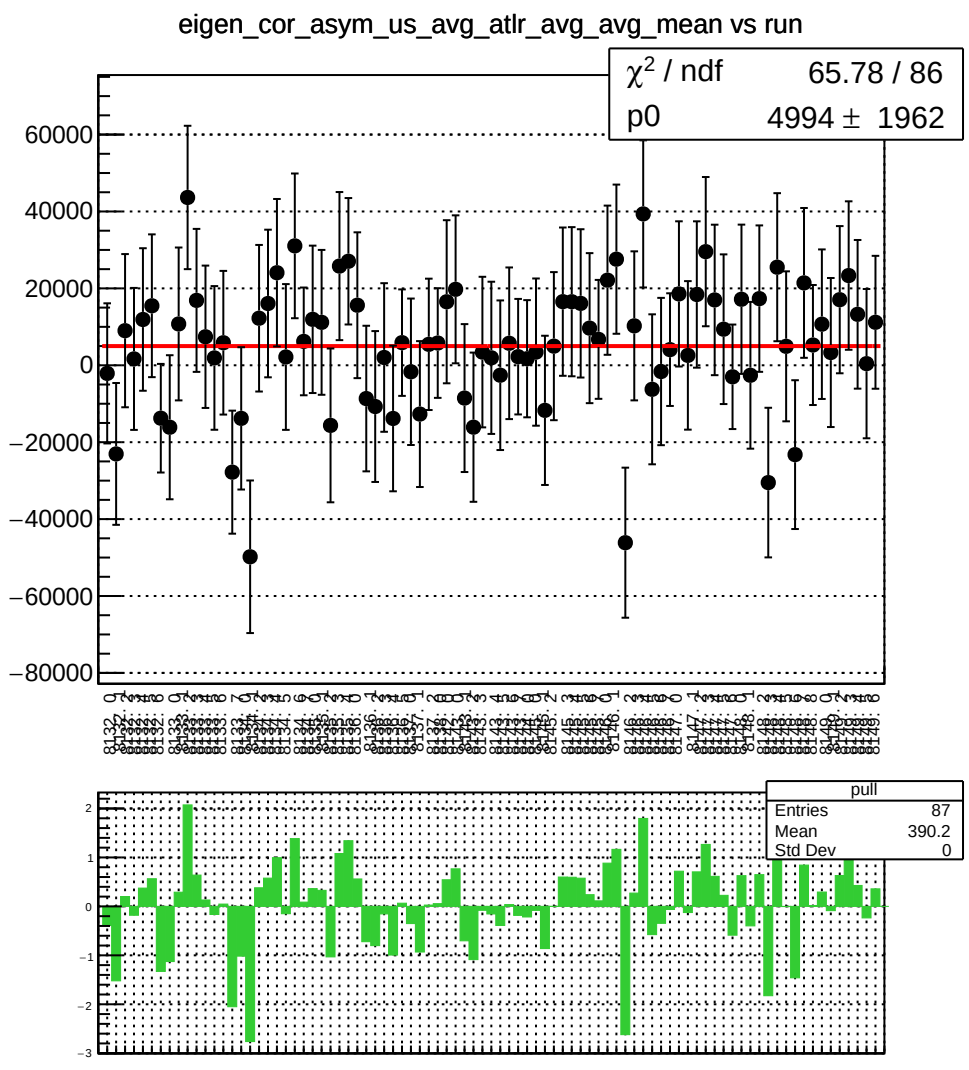

pull1D
Entries 87
Mean 0.00906
Std Dev 0.8695
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

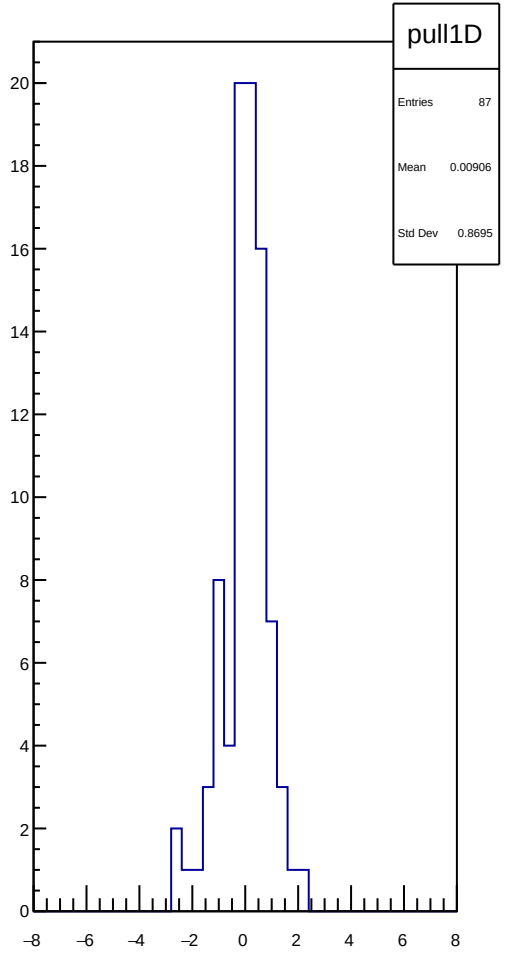

cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 613.1 / 86
p0 1819 ± 1.388
1900
1850
1800
1750
1700

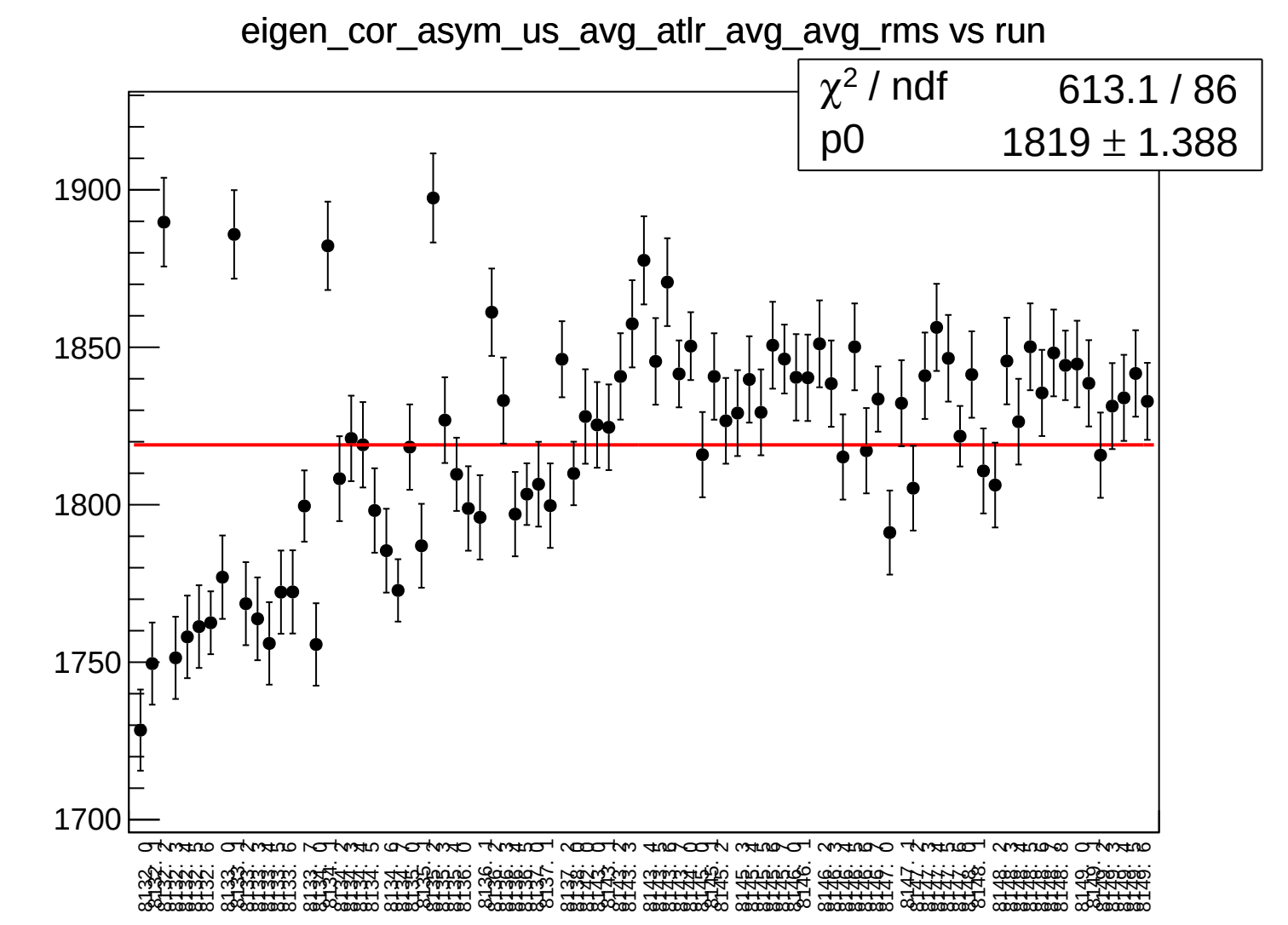

asym_us_avg_atlr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 92.95 / 86
p0 3675 ± 7275
200
100
0
−100
−200
−300
pull
Entries 87
Mean 252.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

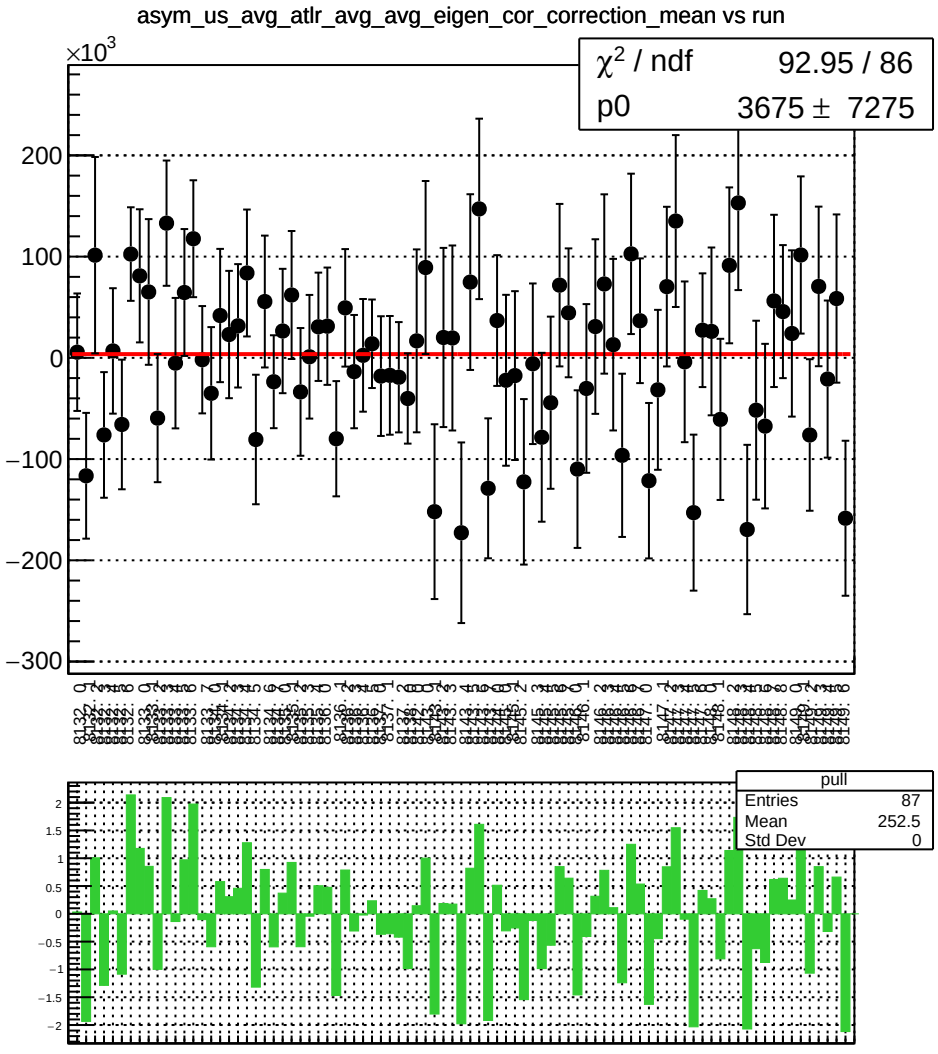

pull1D
Entries 87
Mean −0.01256
Std Dev 1.034
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

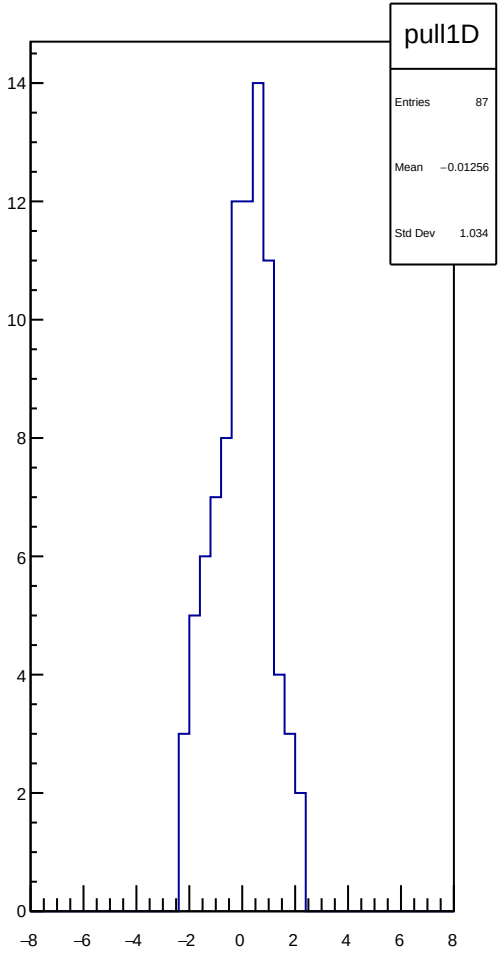

asym_us_avg_atlr_avg_avg_cor_correction_rms vs run
χ² / ndf 4.138e+04 / 86
p0 6663 ± 5.144
9500
9000
8500
8000
7500
7000
6500
6000
5500
5000

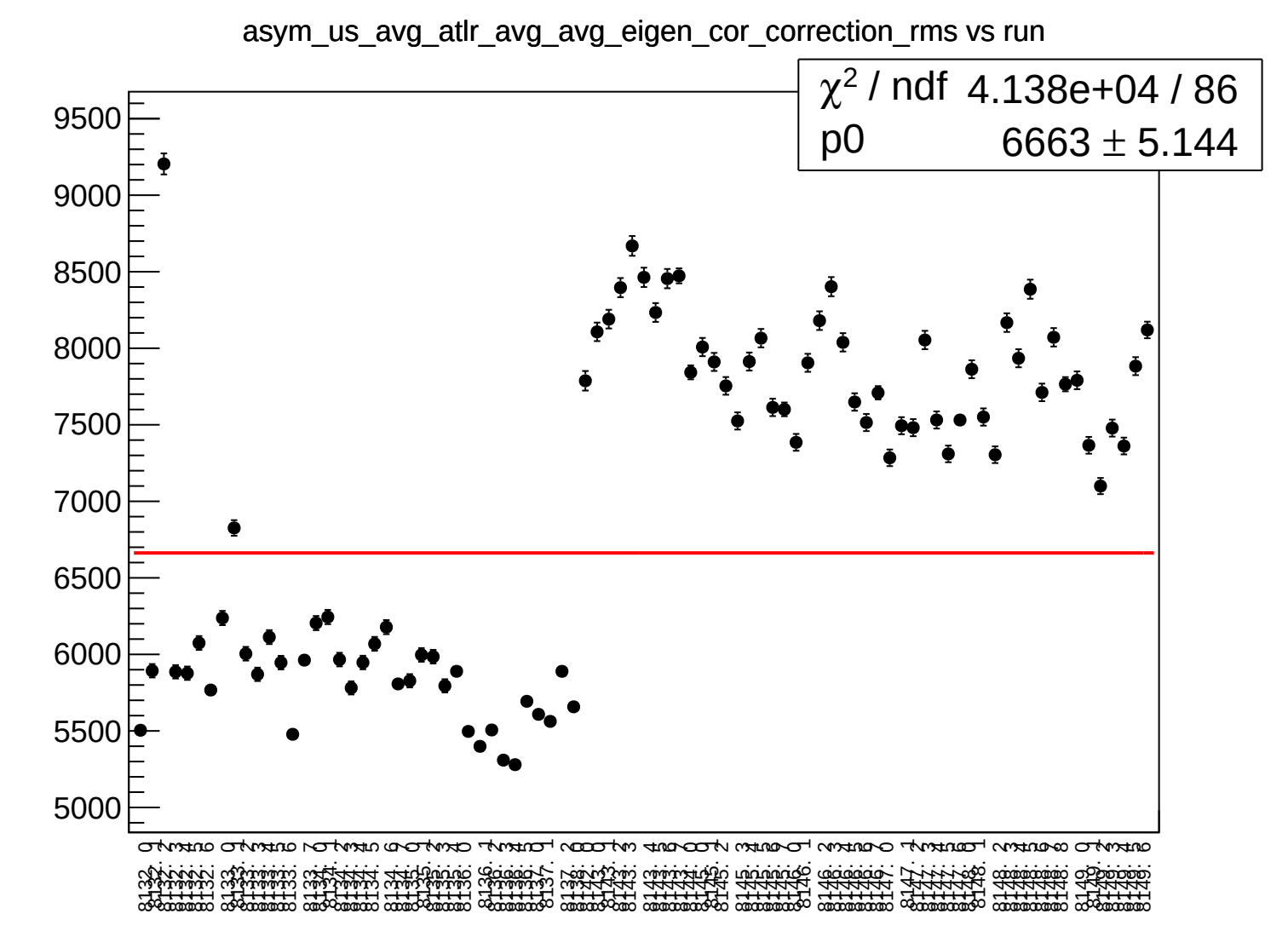

eigen_cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 65.78 / 86
p0 4994 ± 1962
pull
Entries 87
Mean 390.2
Std Dev 0

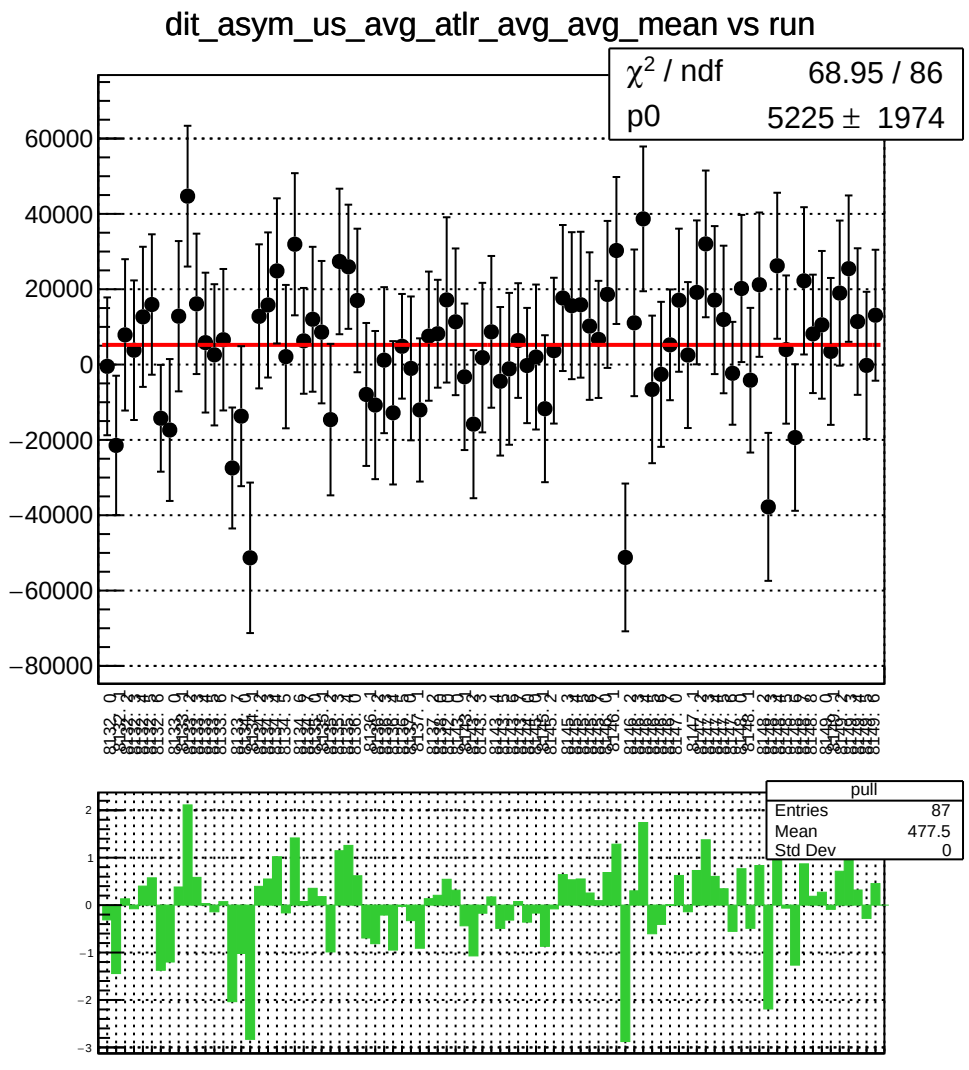

pull1D
Entries 87
Mean 0.00906
Std Dev 0.8695

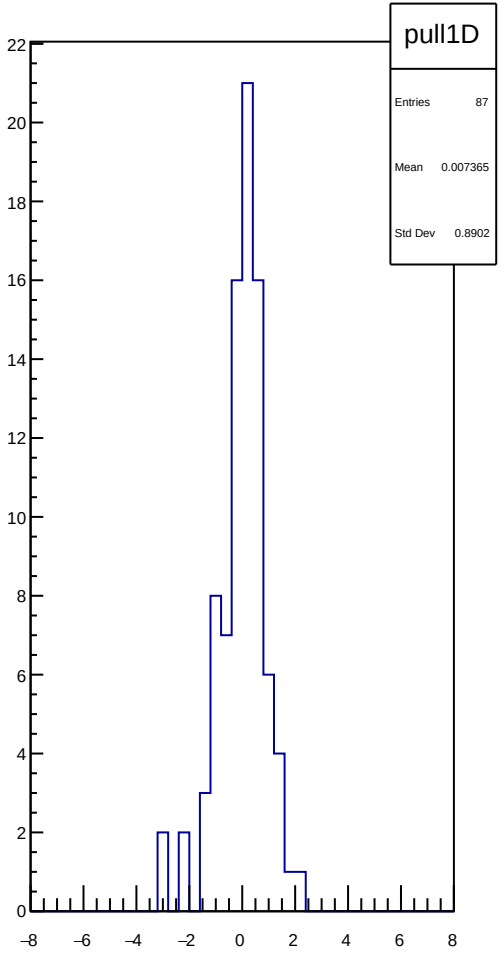

eigen_cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 613.1 / 86
p0 1819 ± 1.388
1900
1850
1800
1750
1700

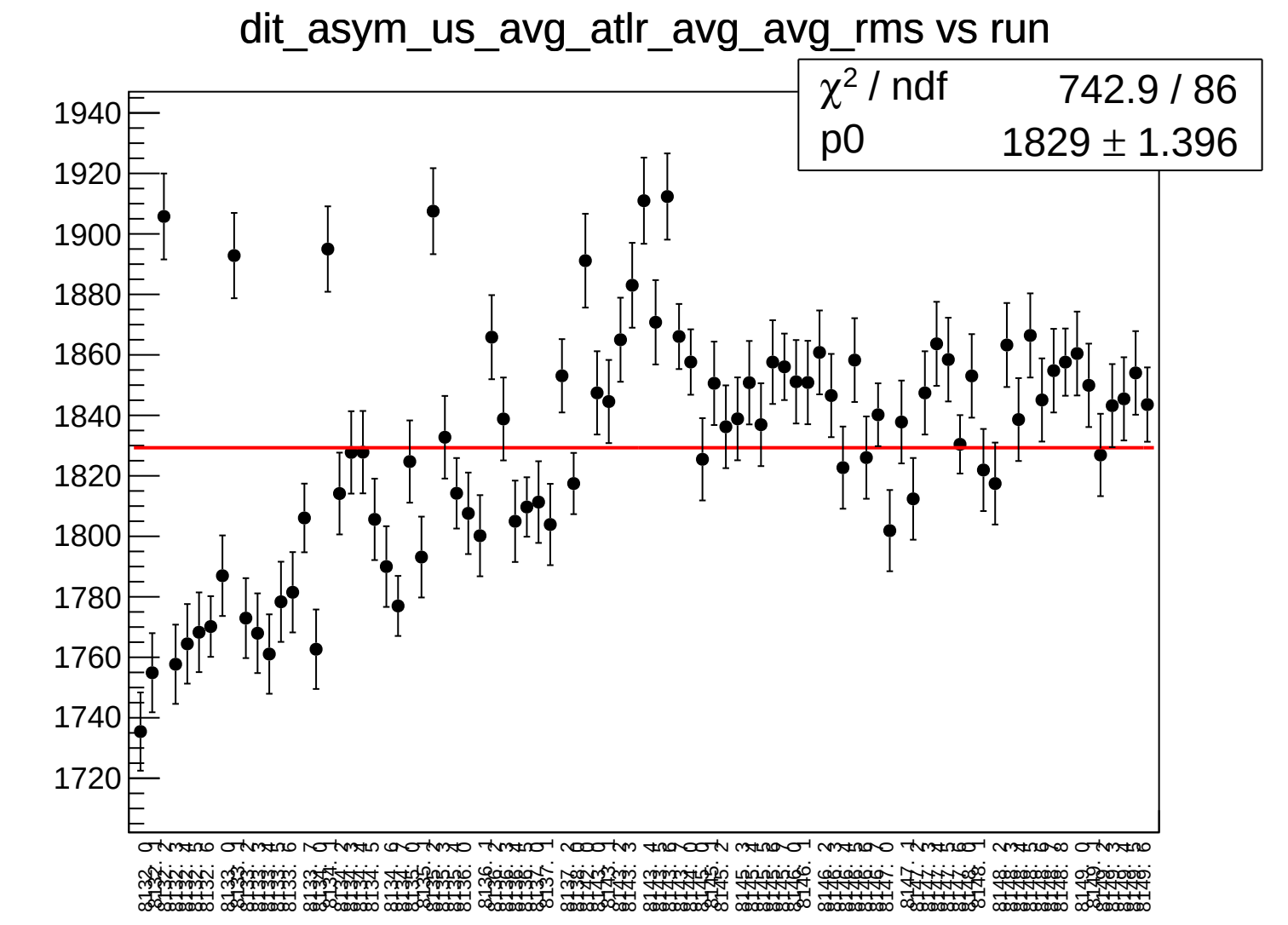

asym_us_avg_atlr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 92.95 / 86
p0 3675 ± 7275
200
100
0
−100
−200
−300
pull
Entries 87
Mean 252.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

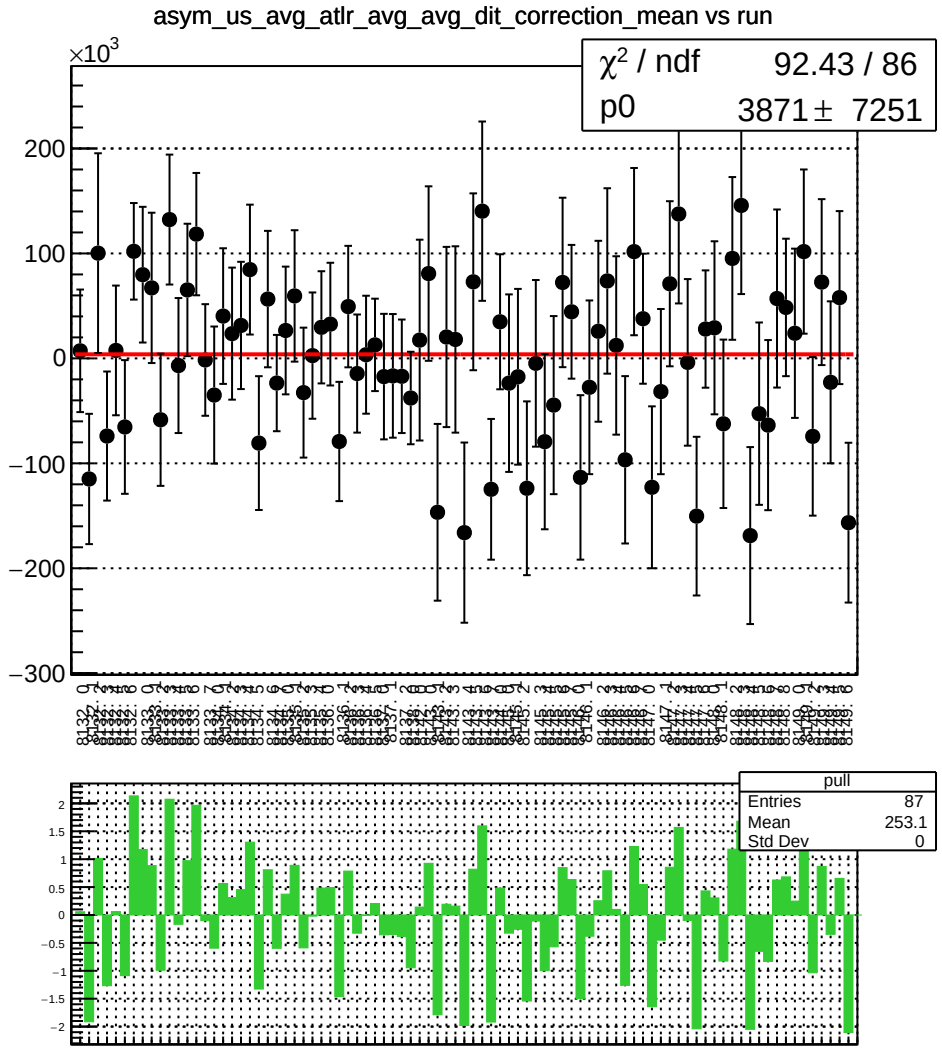

pull1D
Entries 87
Mean −0.01256
Std Dev 1.034
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

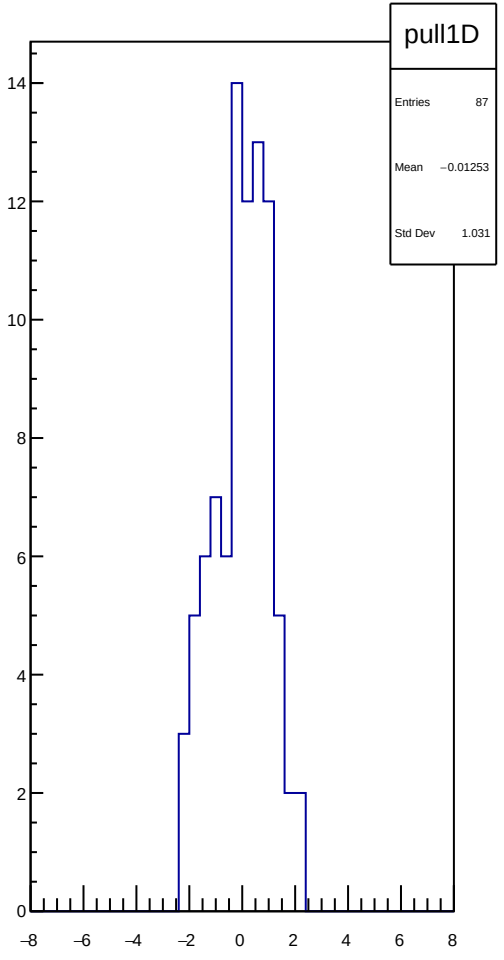

asym_us_avg_atlr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 4.138e+04 / 86
p0 6663 ± 5.144
9500
9000
8500
8000
7500
7000
6500
6000
5500
5000

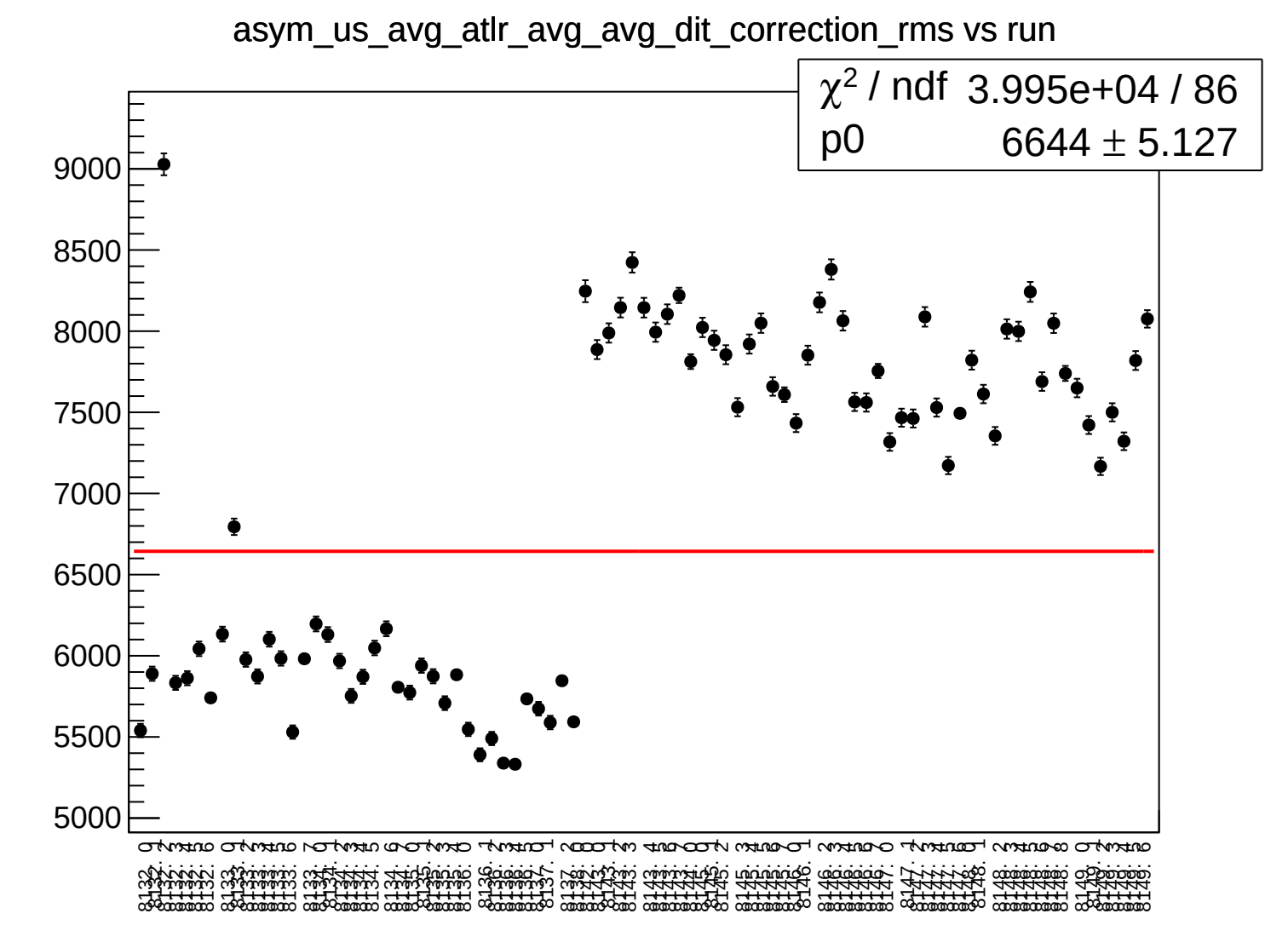

dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 68.95 / 86
p0 5225 ± 1974
pull
Entries 87
Mean 477.5
Std Dev 0

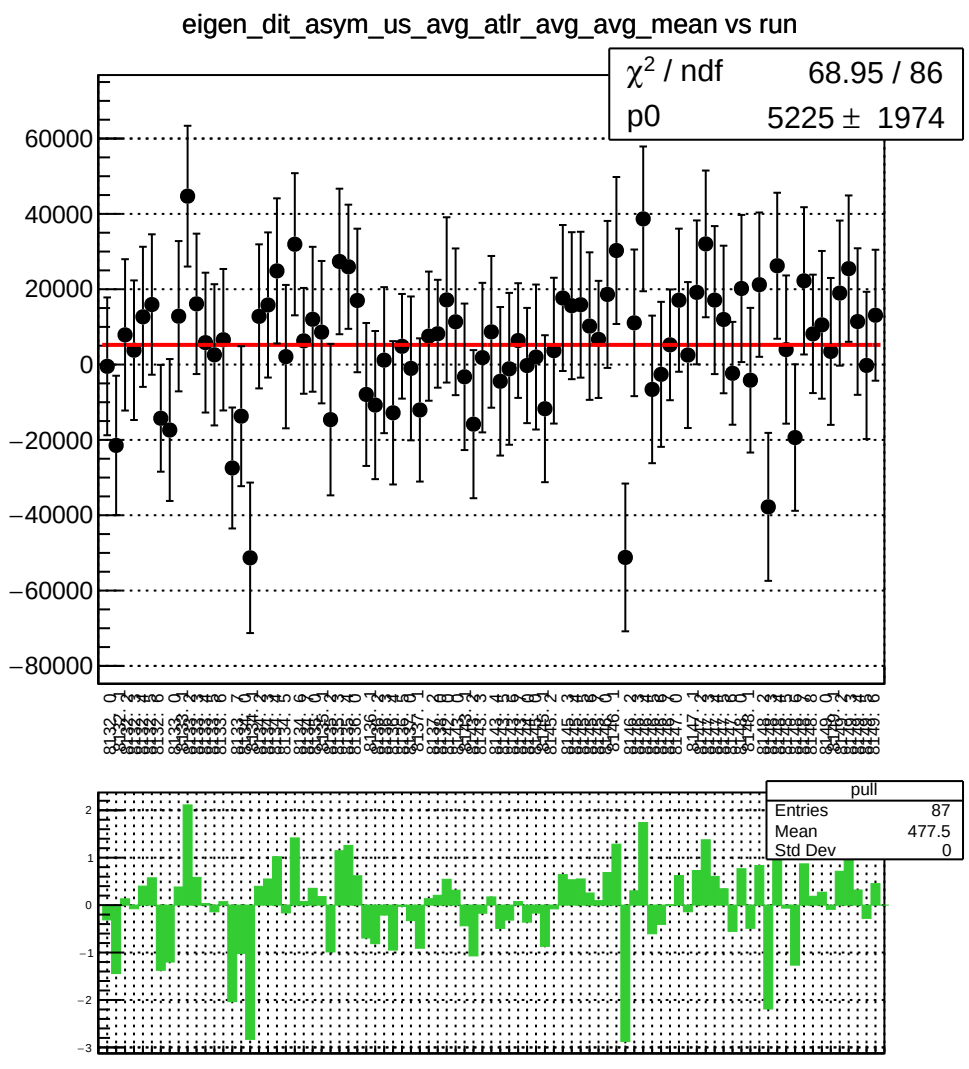

pull1D
Entries 87
Mean 0.007365
Std Dev 0.8902

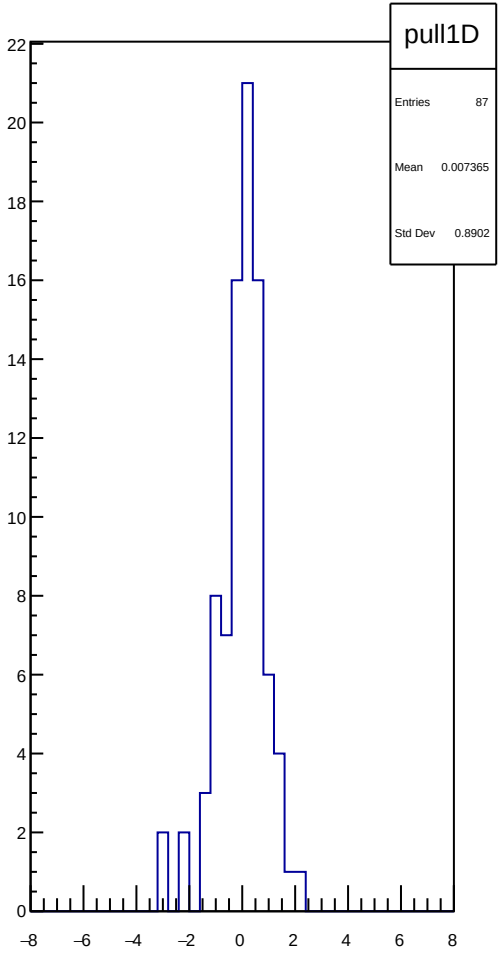

dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 742.9 / 86
p0 1829 ± 1.396
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760
1740
1720

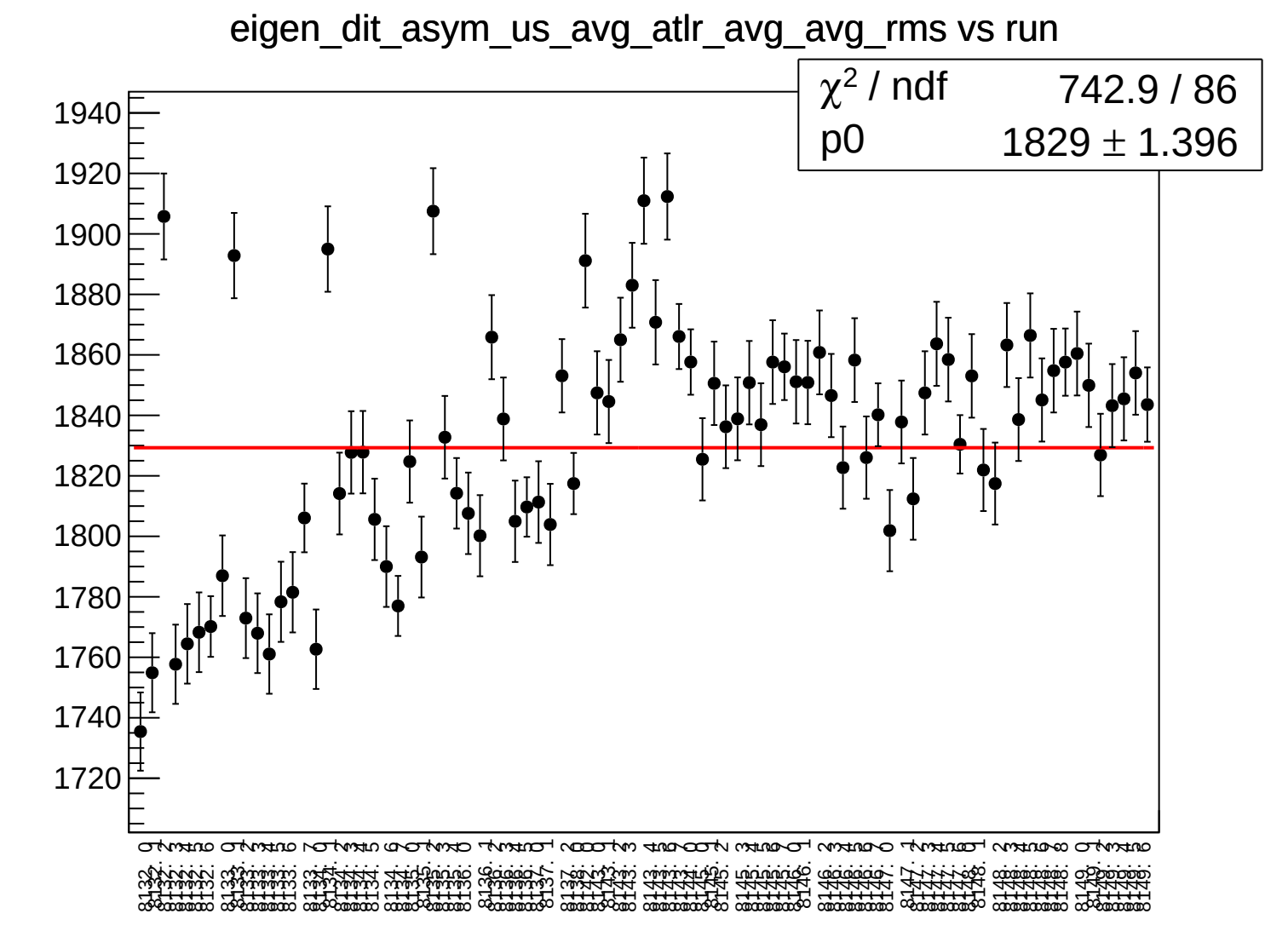

asym_us_avg_atlr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 92.43 / 86
p0 3871 ± 7251
pull
Entries 87
Mean 253.1
Std Dev 0

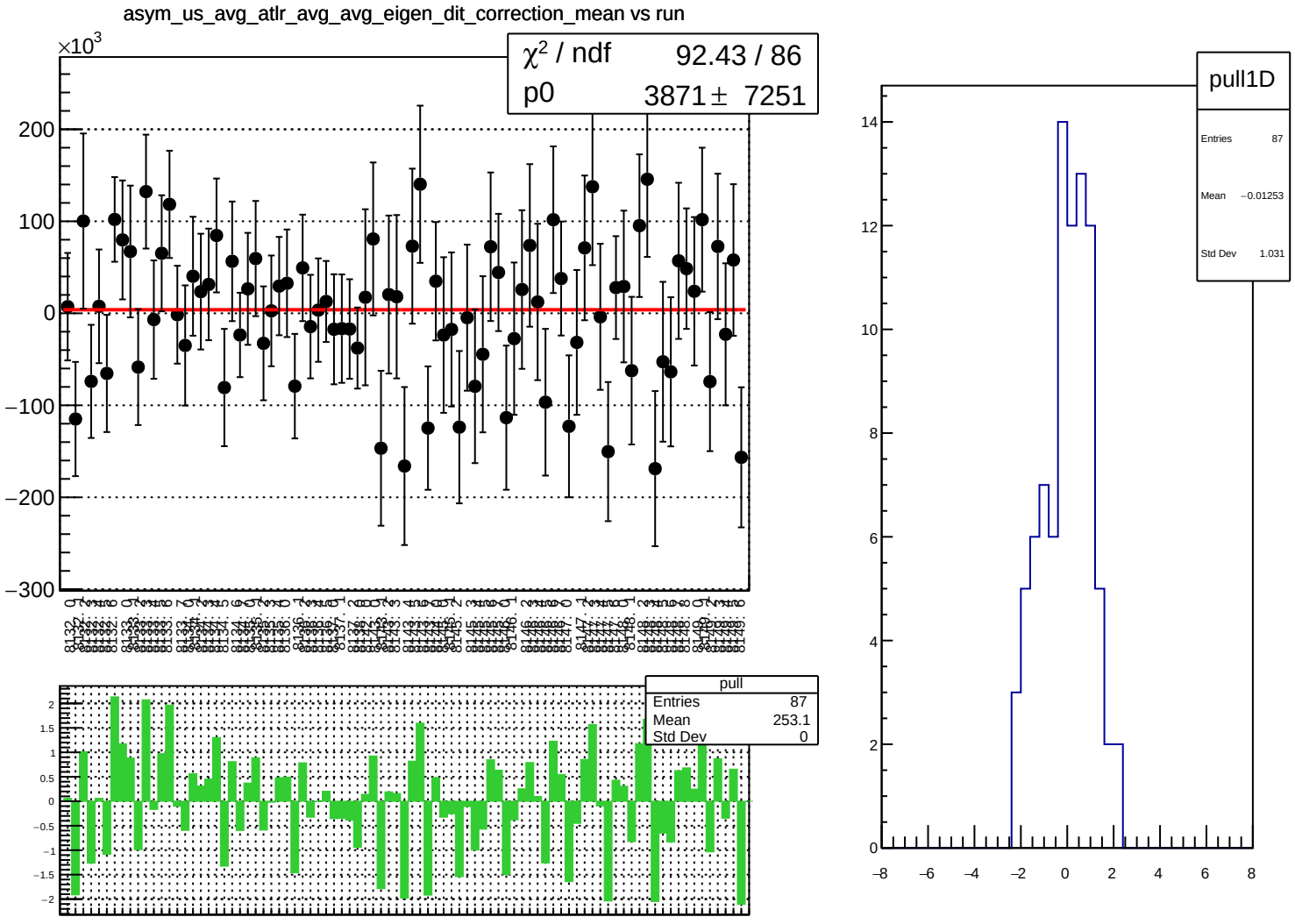

pull1D
Entries 87
Mean −0.01253
Std Dev 1.031

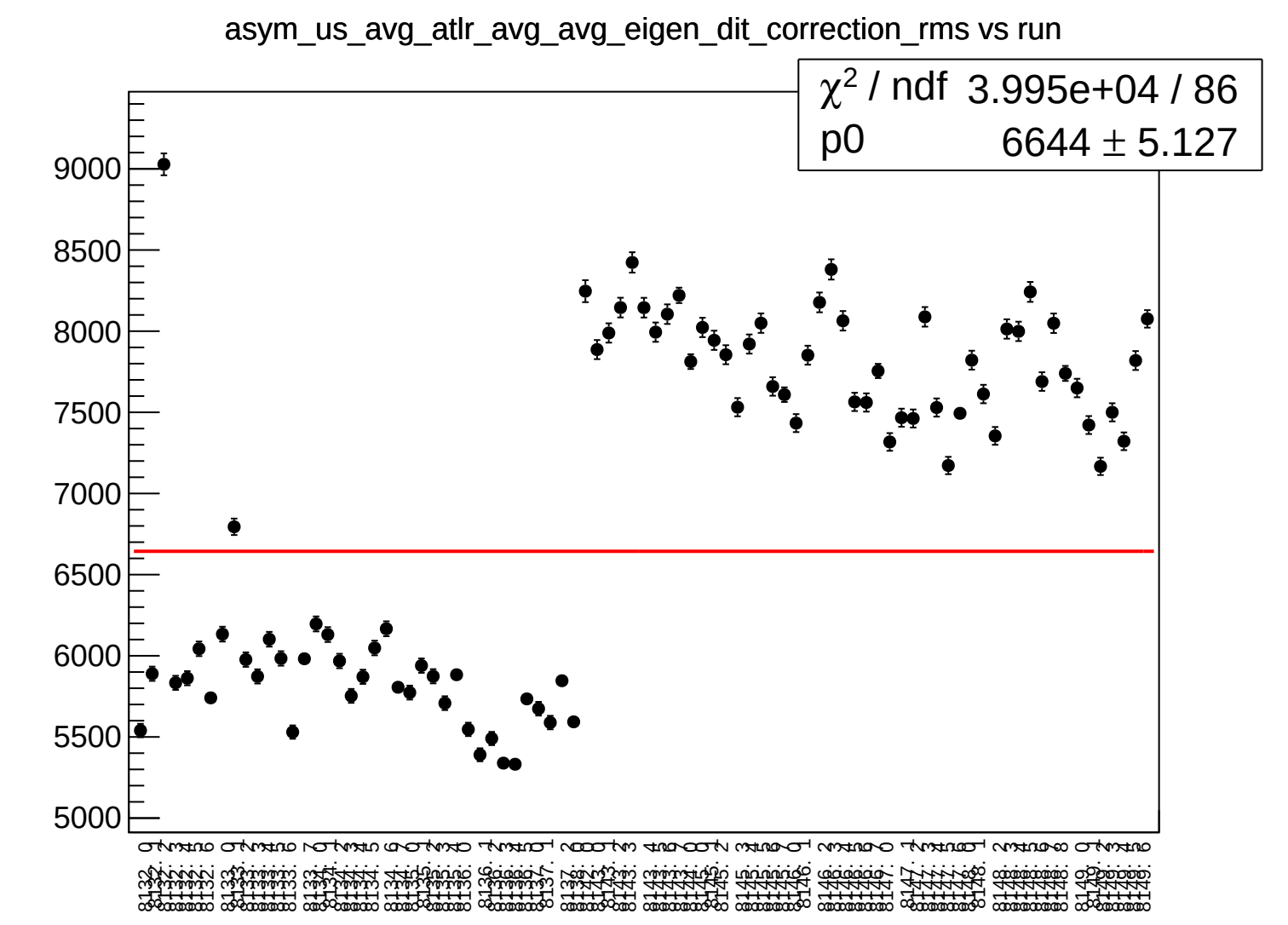

asym_us_avg_atlr_avg_avg_dit_correction_rms vs run
χ² / ndf 3.995e+04 / 86
p0 6644 ± 5.127
9000
8500
8000
7500
7000
6500
6000
5500
5000

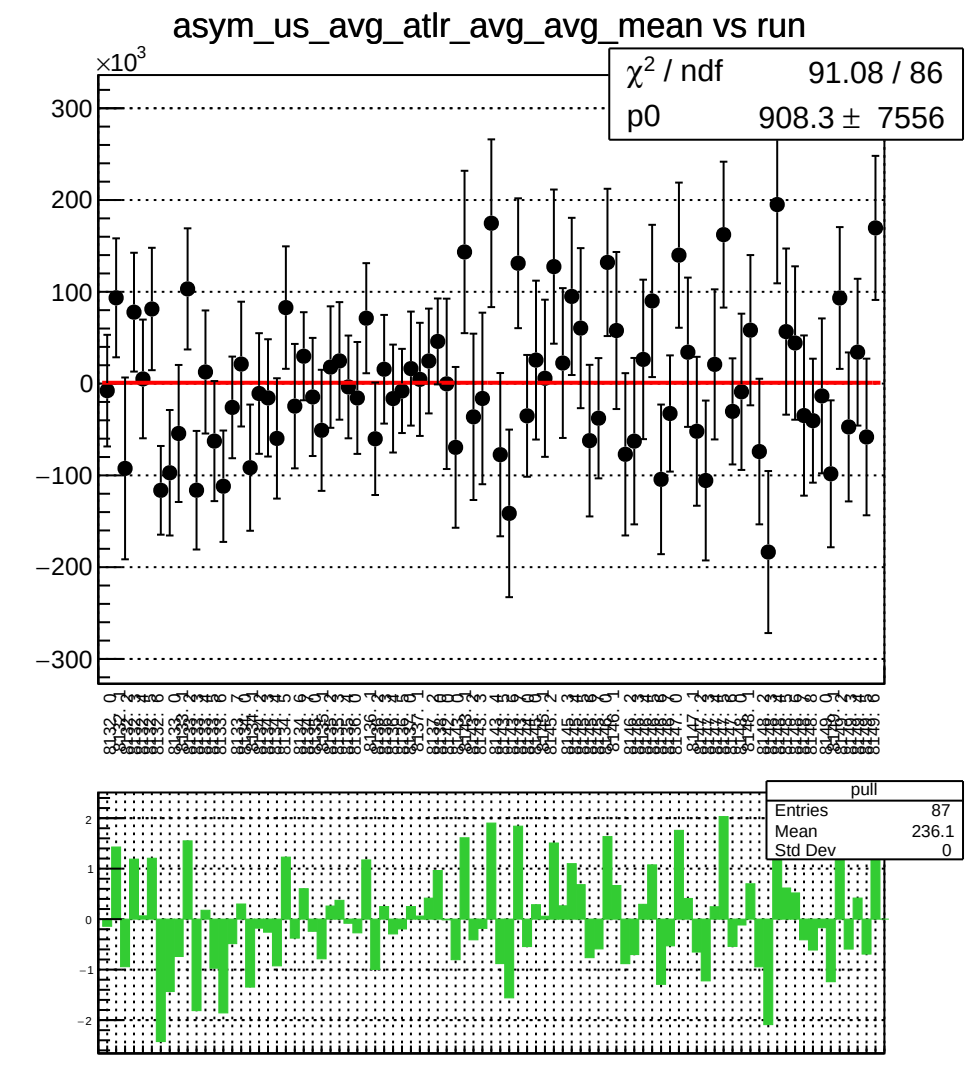

eigen_dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 68.95 / 86
p0 5225 ± 1974
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean 477.5
Std Dev 0
2
1
0
−1
−2
−3

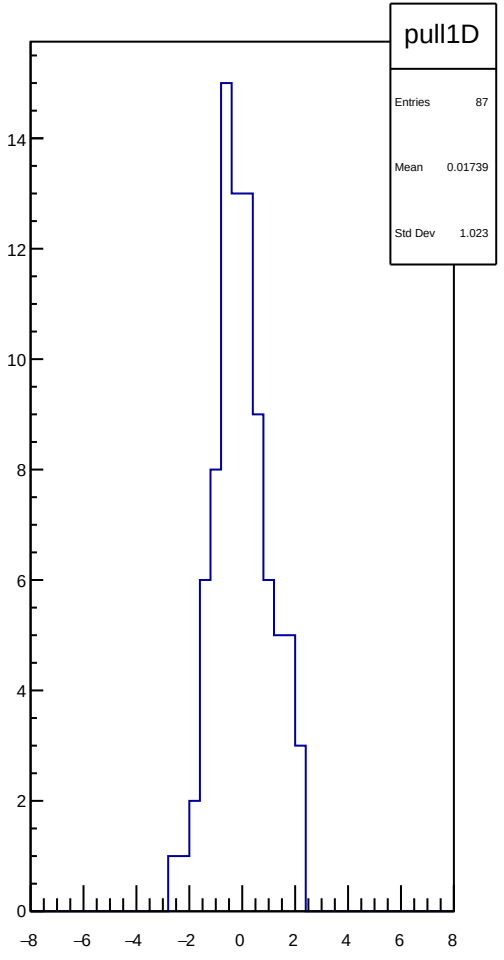

pull1D
Entries 87
Mean 0.007365
Std Dev 0.8902
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

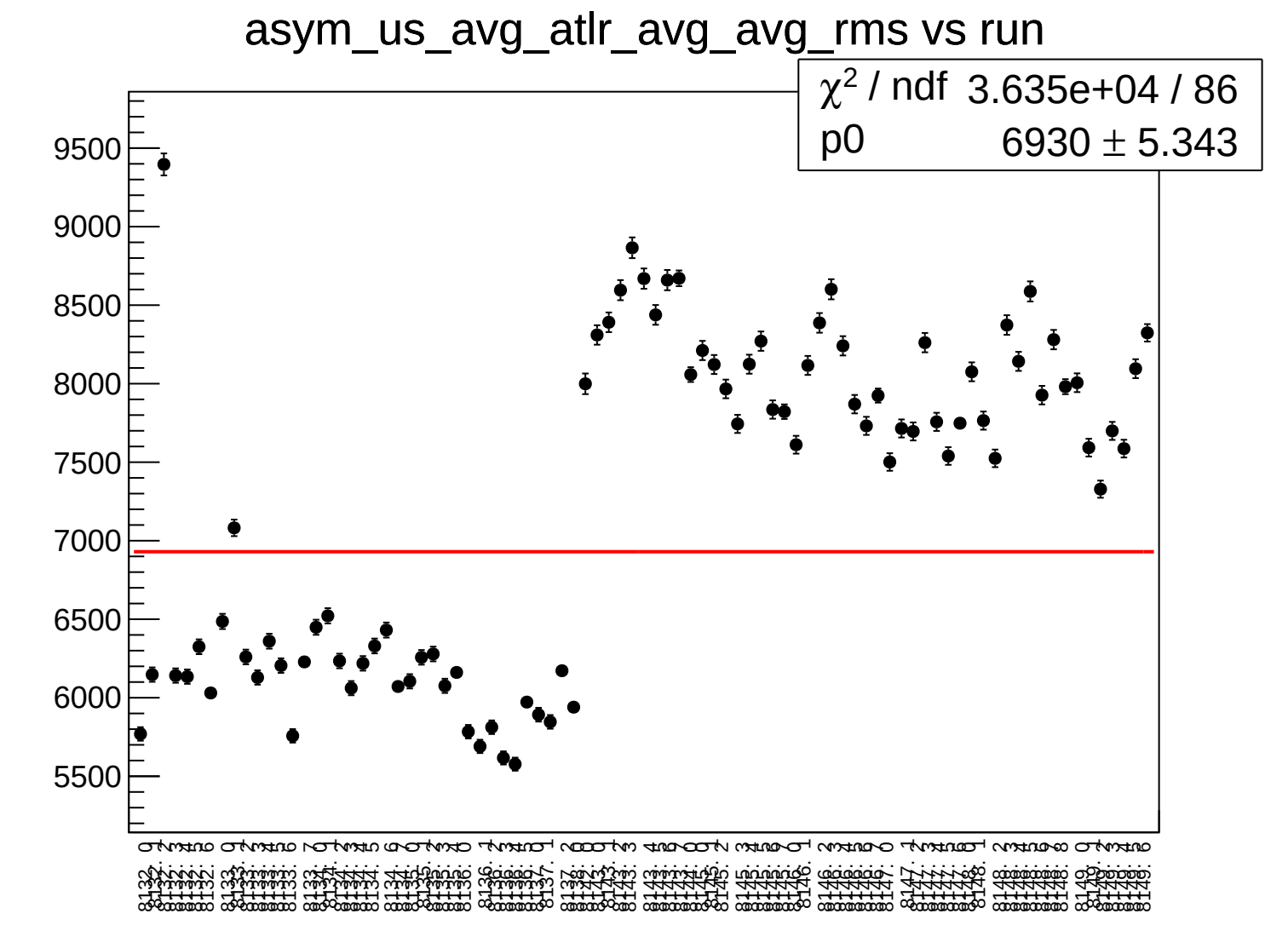

eigen_dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 742.9 / 86
p0 1829 ± 1.396
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760
1740
1720

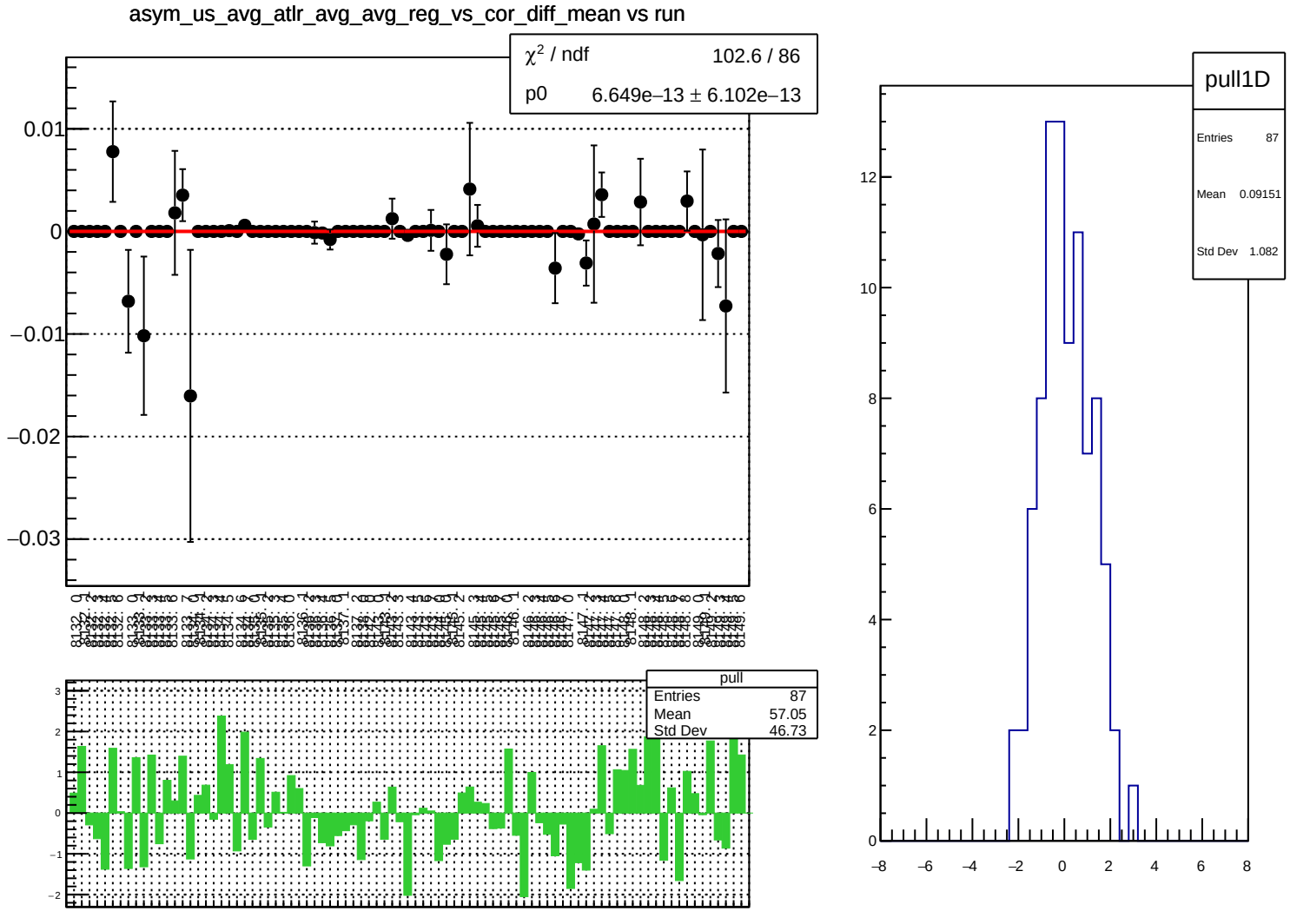

asym_us_avg_atlr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 92.43 / 86
p0 3871 ± 7251
200
100
0
−100
−200
−300
pull
Entries 87
Mean 253.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 87
Mean −0.01253
Std Dev 1.031
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

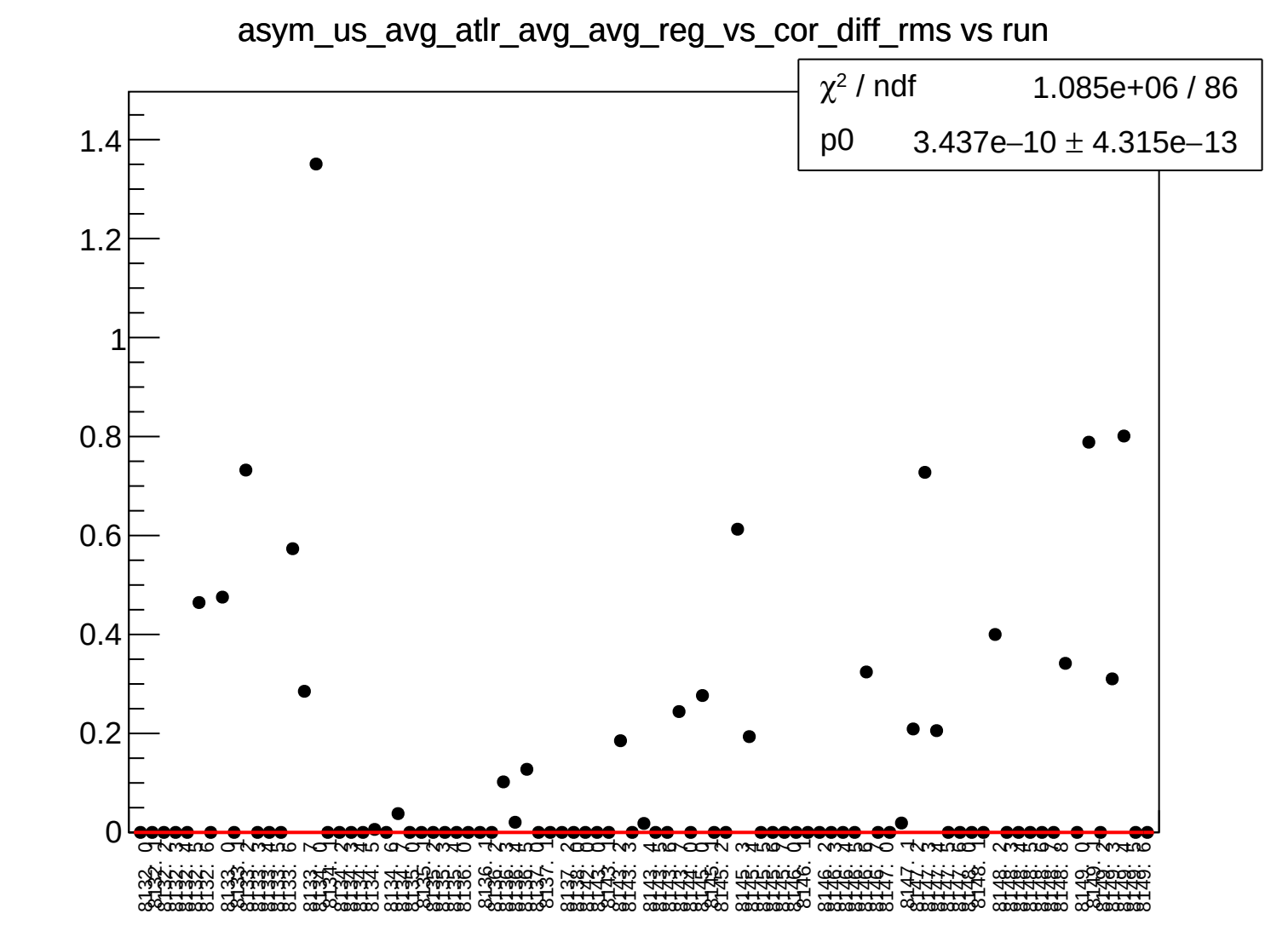

asym_us_avg_atlr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.995e+04 / 86
p0 6644 ± 5.127
9000
8500
8000
7500
7000
6500
6000
5500
5000

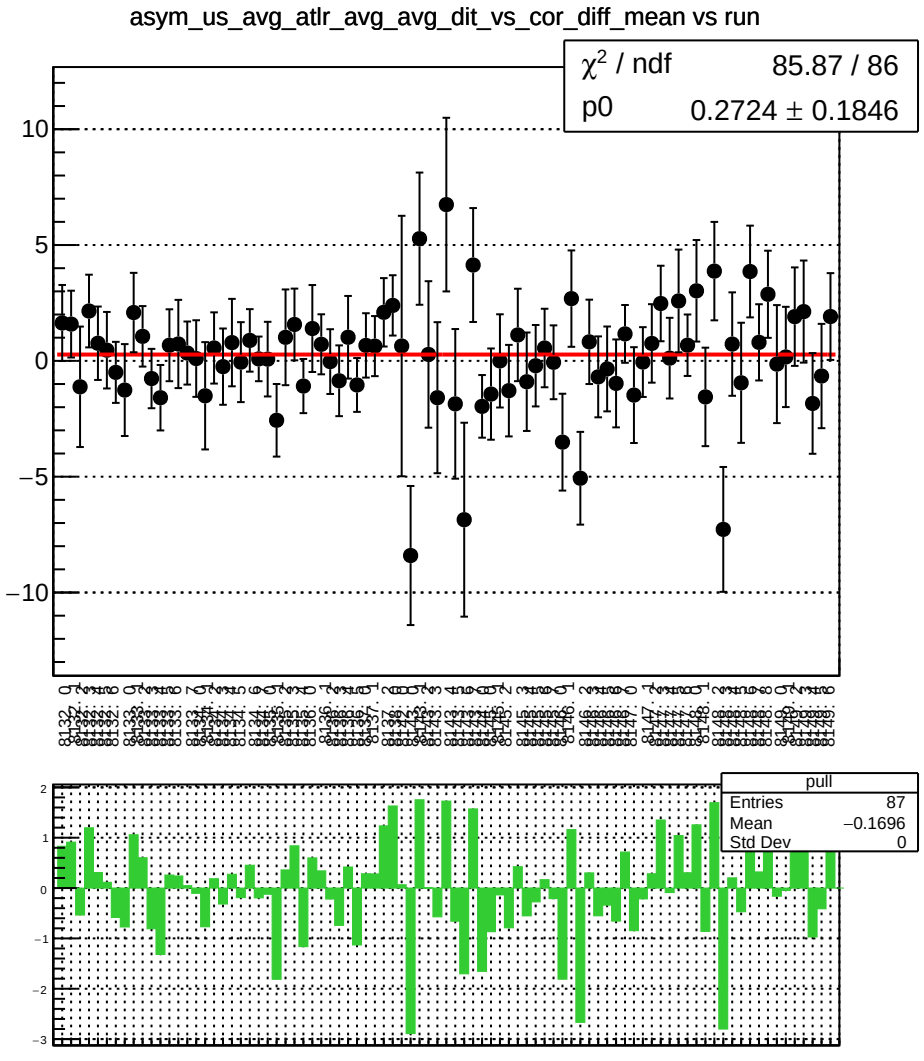

asym_us_avg_atlr_avg_avg_mean vs run
×10^3
χ² / ndf 91.08 / 86
p0 908.3 ± 7556
300
200
100
0
−100
−200
−300
pull
Entries 87
Mean 236.1
Std Dev 0
2
1
0
−1
−2

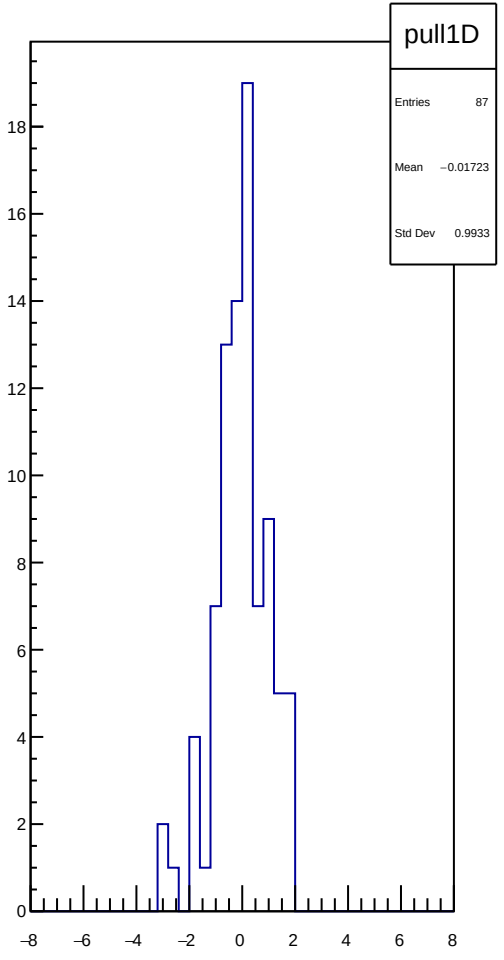

pull1D
Entries 87
Mean 0.01739
Std Dev 1.023
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

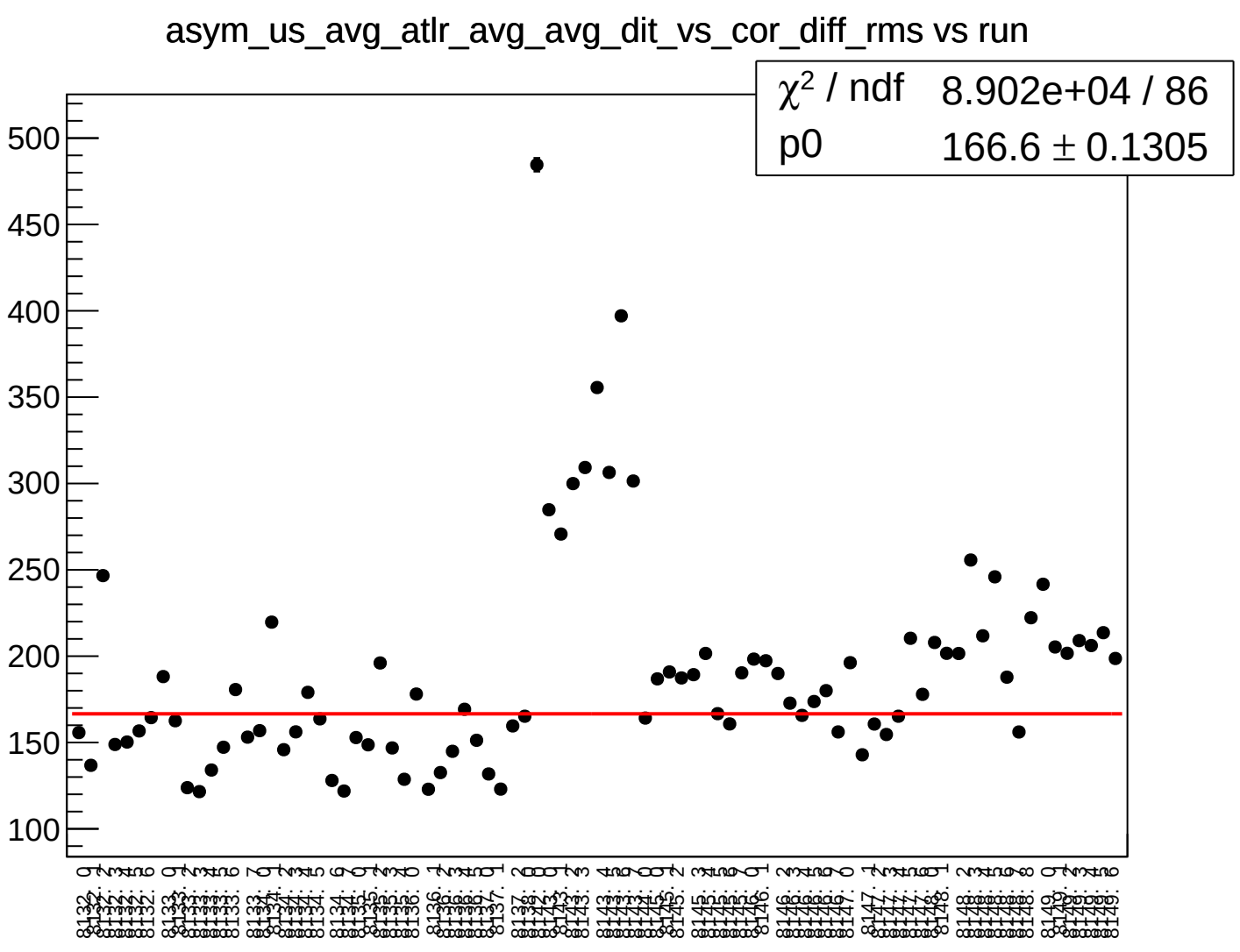

asym_us_avg_atlr_avg_avg_rms vs run
χ^2 / ndf 3.635e+04 / 86
p0 6930 ± 5.343
9500
9000
8500
8000
7500
7000
6500
6000
5500

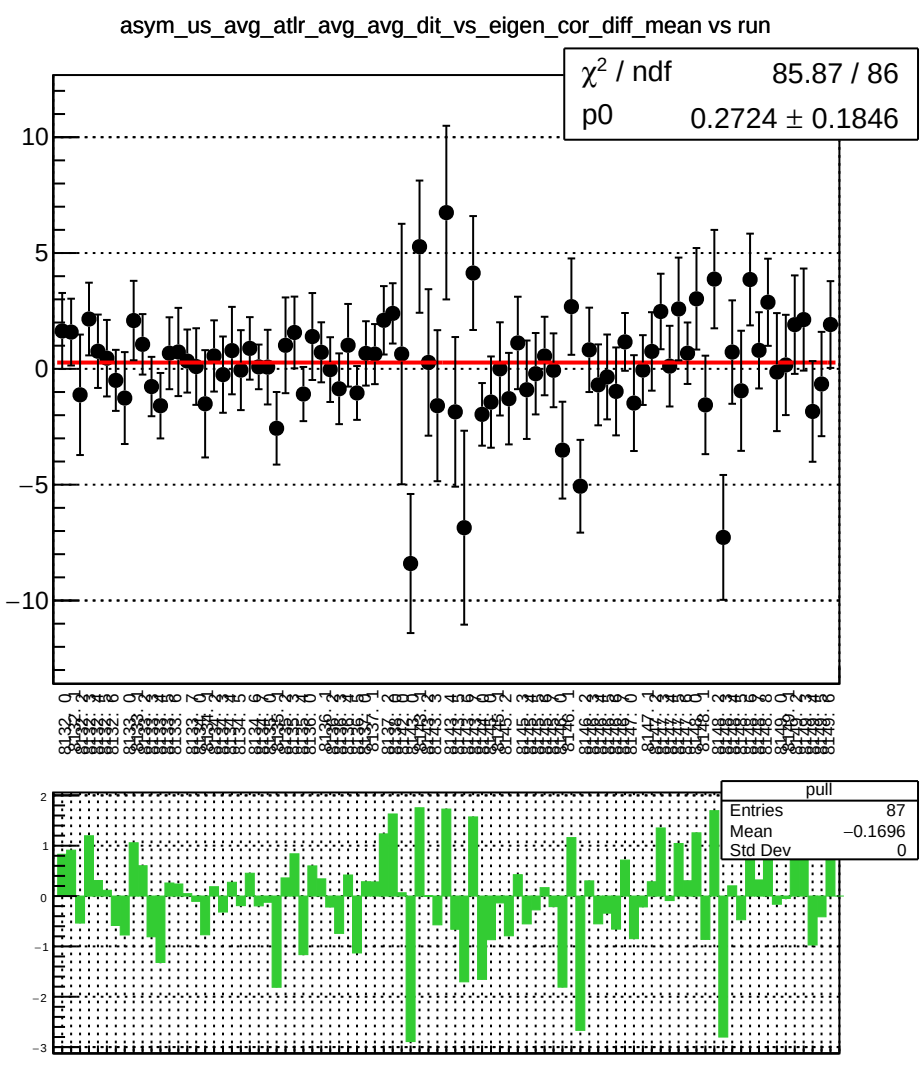

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 102.6 / 86
p0 6.649e−13 ± 6.102e−13
0.01
0
−0.01
−0.02
−0.03
pull
Entries 87
Mean 57.05
Std Dev 46.73
3
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.09151
Std Dev 1.082
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

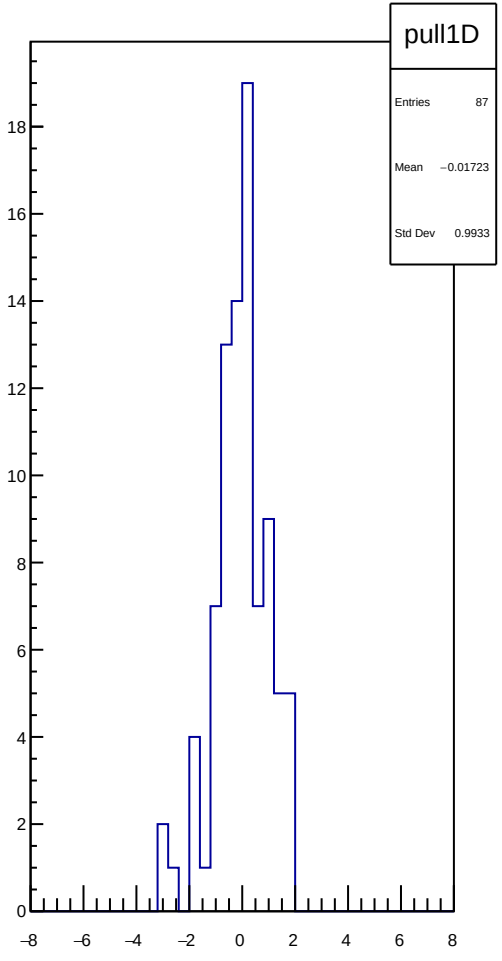

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.085e+06 / 86
p0 3.437e−10 ± 4.315e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

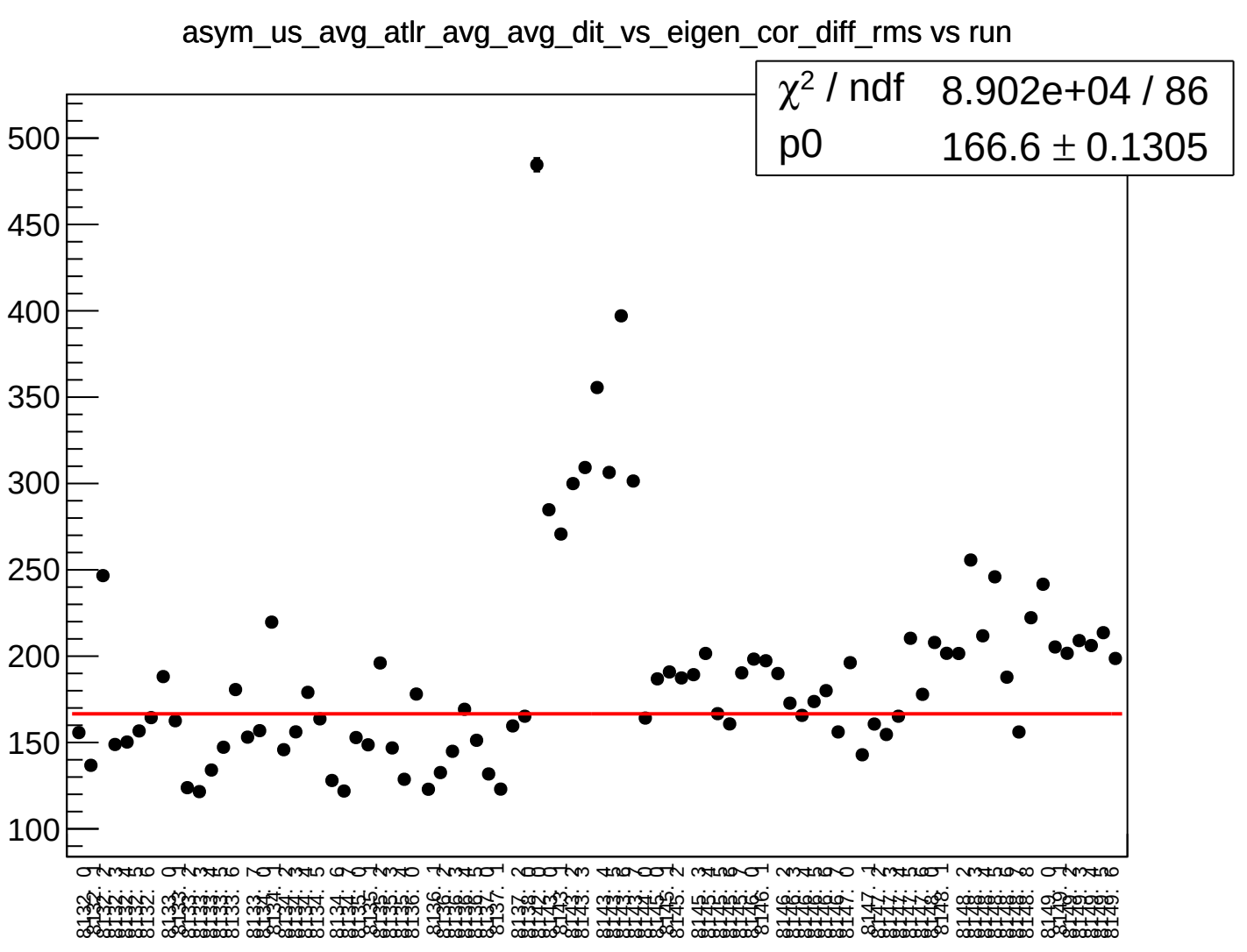

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 85.87 / 86
p0 0.2724 ± 0.1846
pull
Entries 87
Mean −0.1696
Std Dev 0

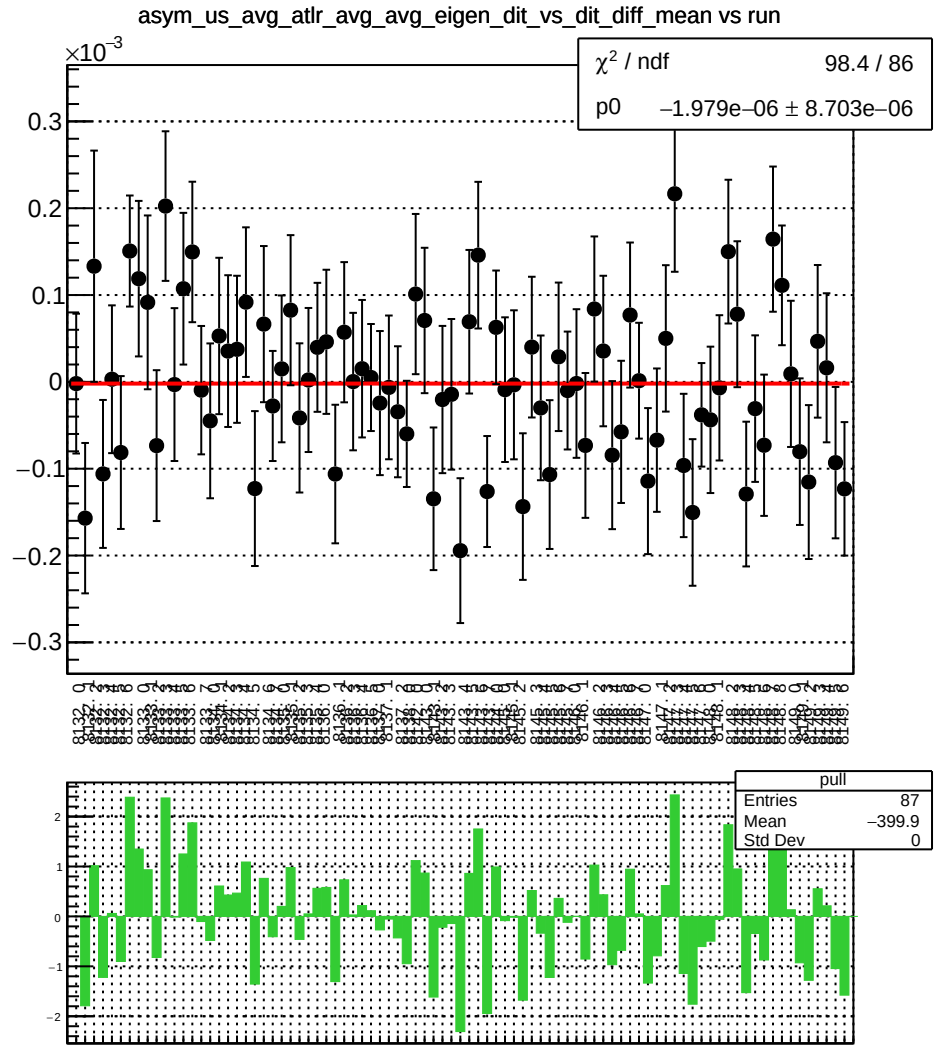

pull1D
Entries 87
Mean −0.01723
Std Dev 0.9933

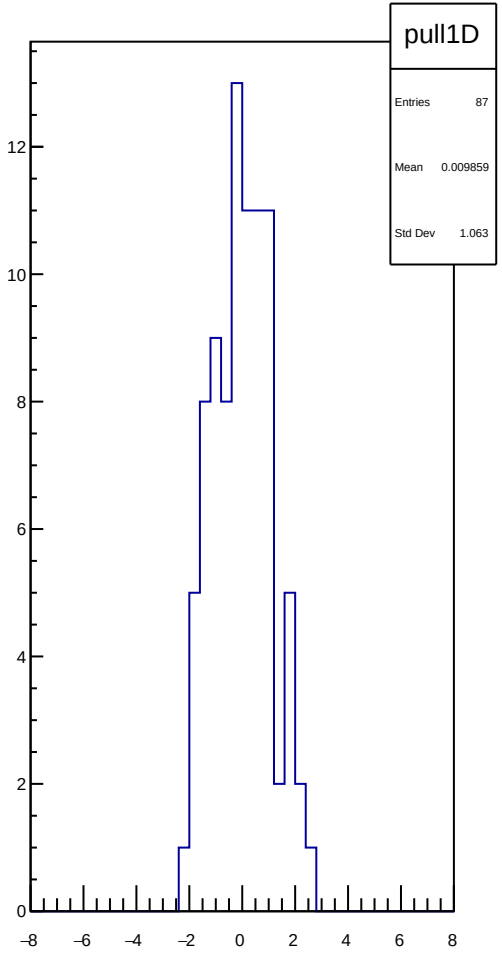

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.902e+04 / 86
p0 166.6 ± 0.1305
500
450
400
350
300
250
200
150
100

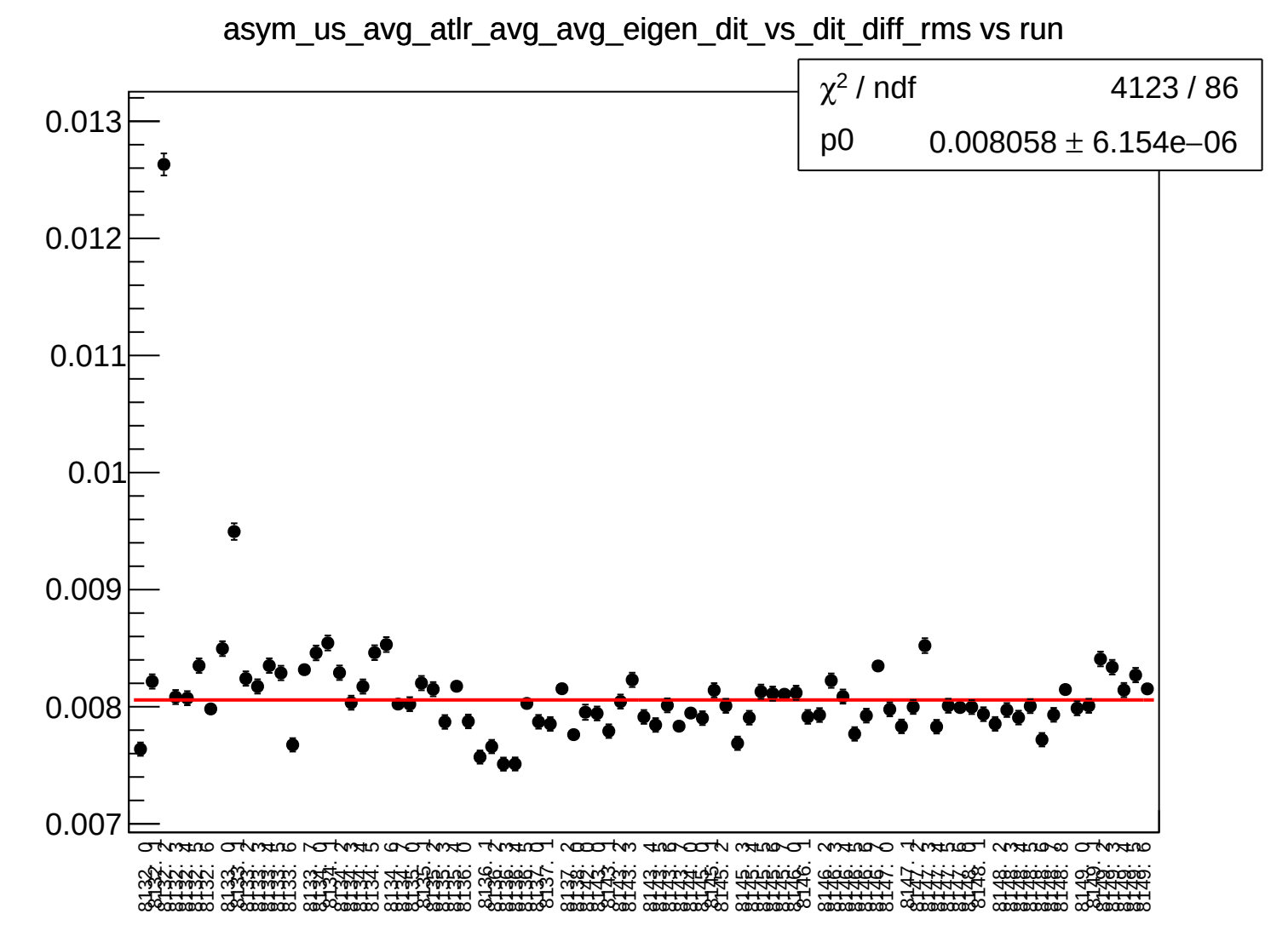

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.87 / 86
p0 0.2724 ± 0.1846
pull
Entries 87
Mean −0.1696
Std Dev 0

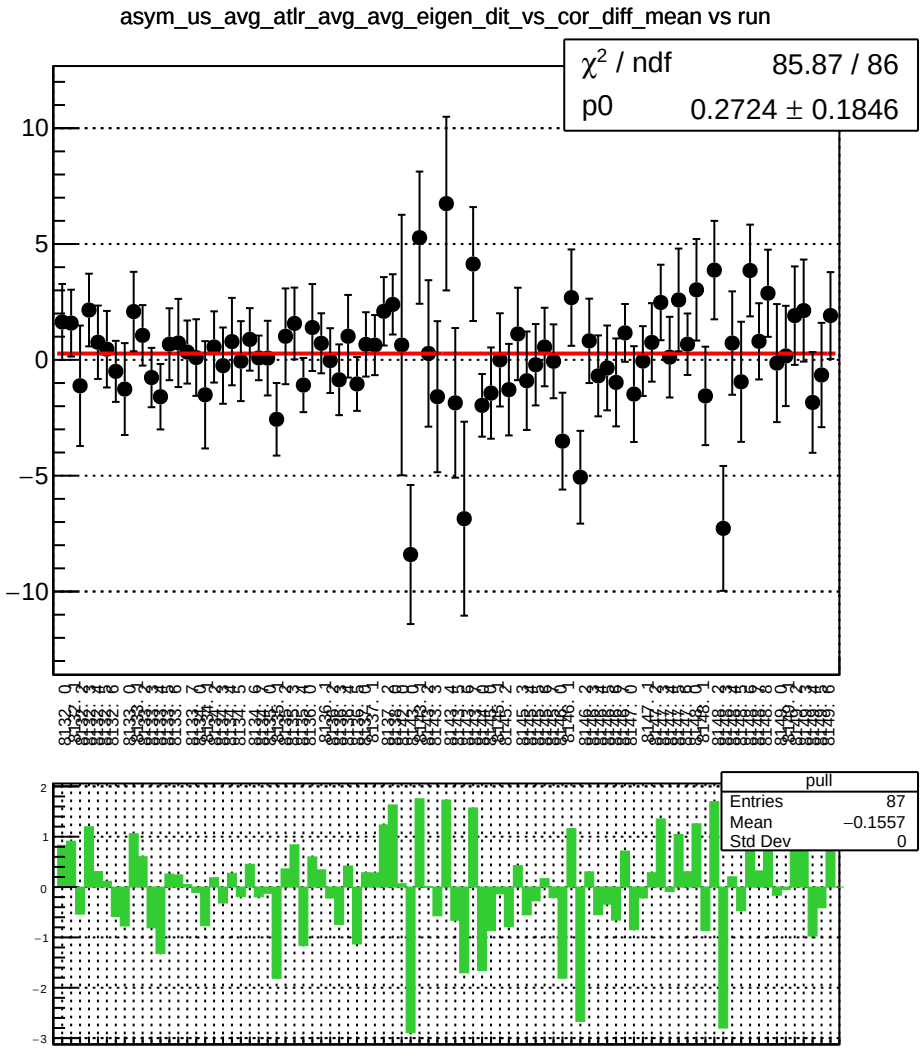

pull1D
Entries 87
Mean −0.01723
Std Dev 0.9933

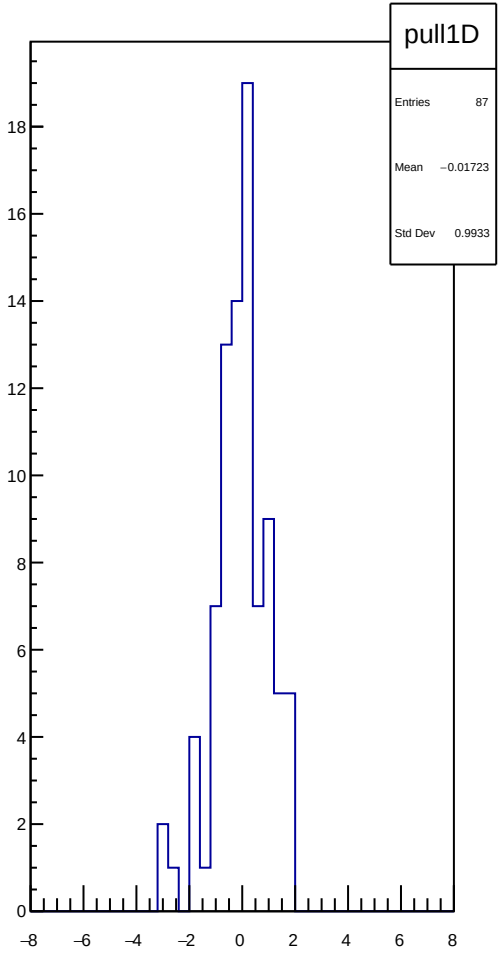

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.902e+04 / 86
p0 166.6 ± 0.1305
500
450
400
350
300
250
200
150
100

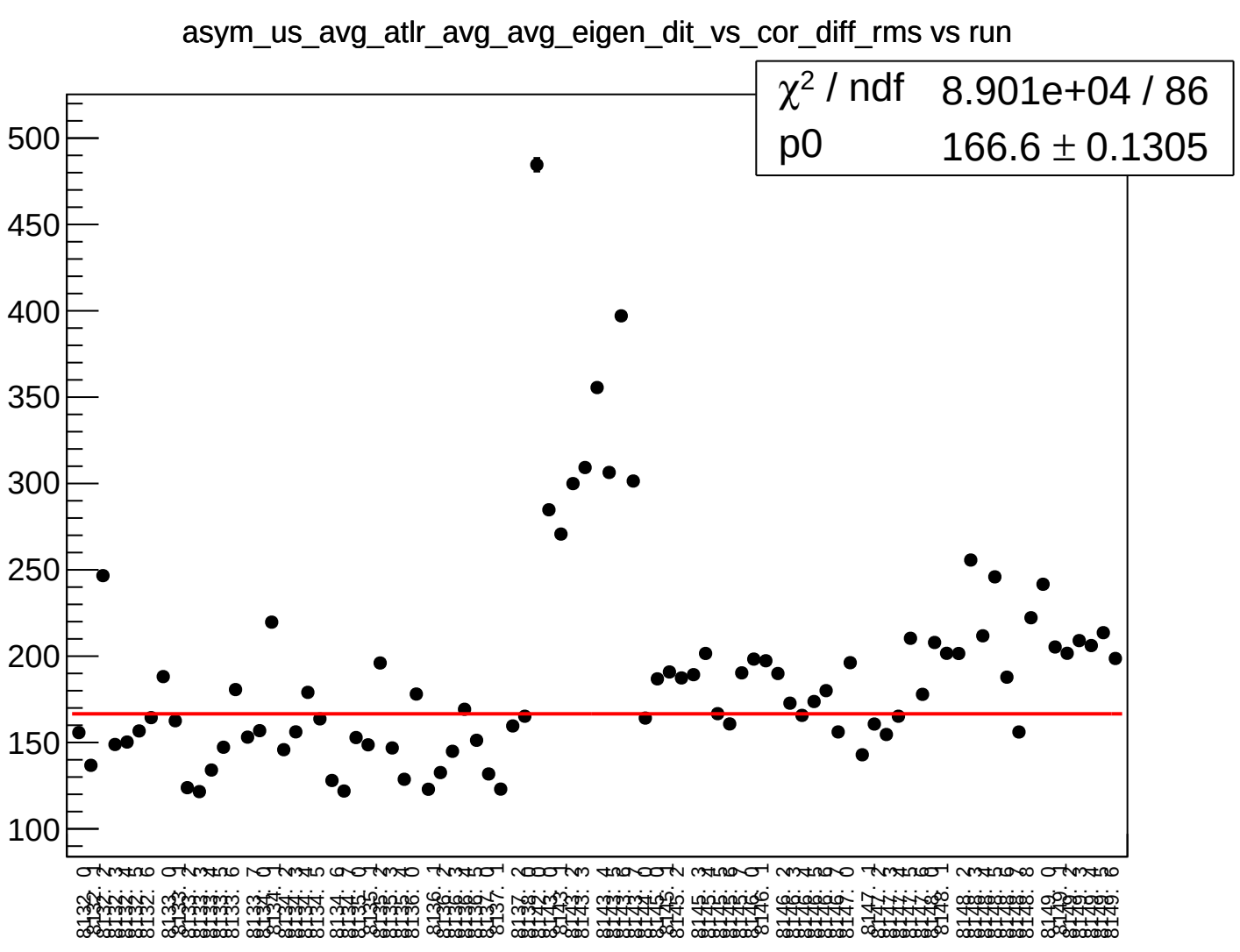

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.4 / 86
p0 −1.979e−06 ± 8.703e−06
pull
Entries 87
Mean −399.9
Std Dev 0

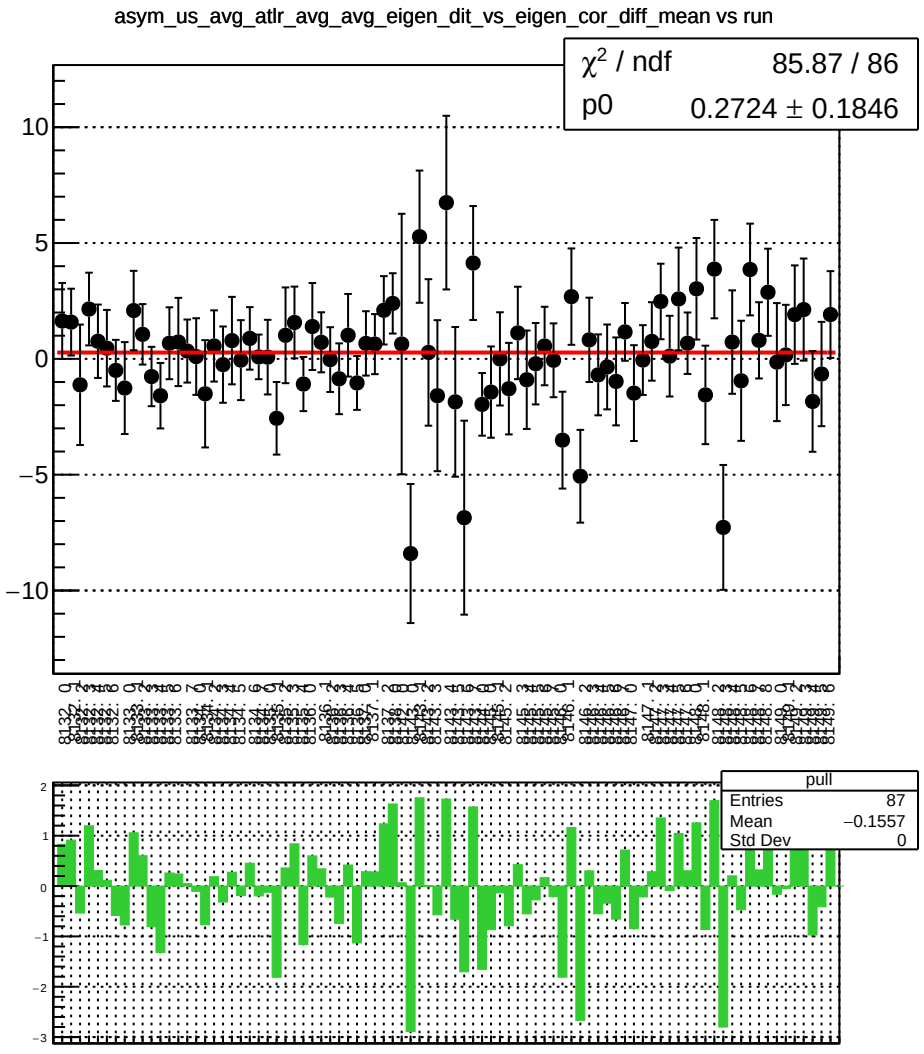

pull1D
Entries 87
Mean 0.009859
Std Dev 1.063

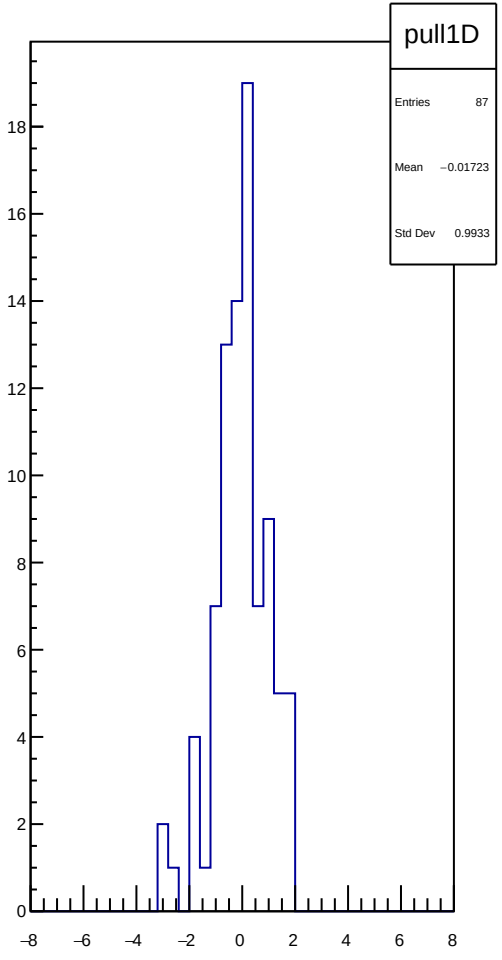

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4123 / 86
p0 0.008058 ± 6.154e−06
0.013
0.012
0.011
0.01
0.009
0.008
0.007

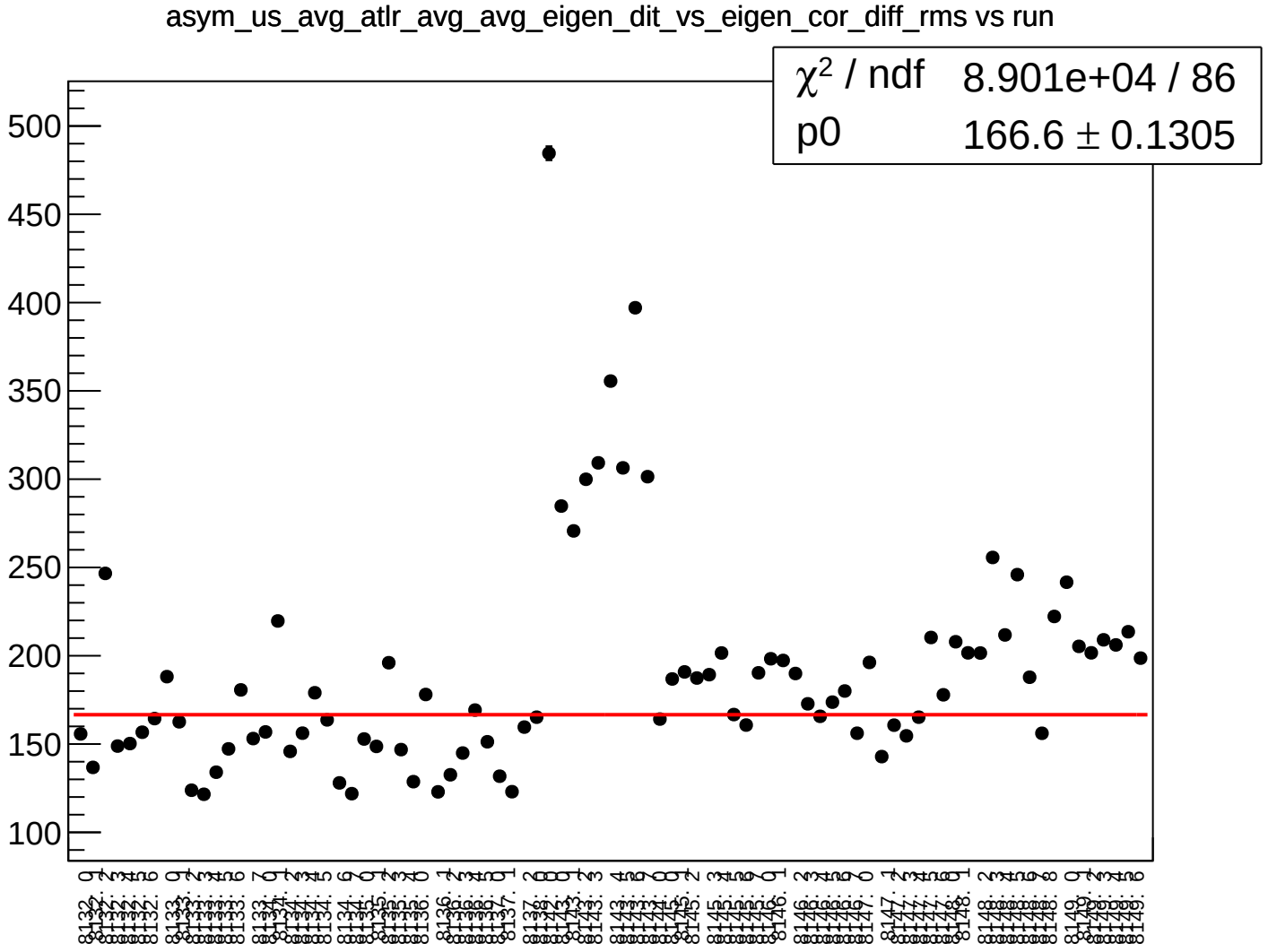

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.87 / 86
p0 0.2724 ± 0.1846
pull
Entries 87
Mean −0.1557
Std Dev 0

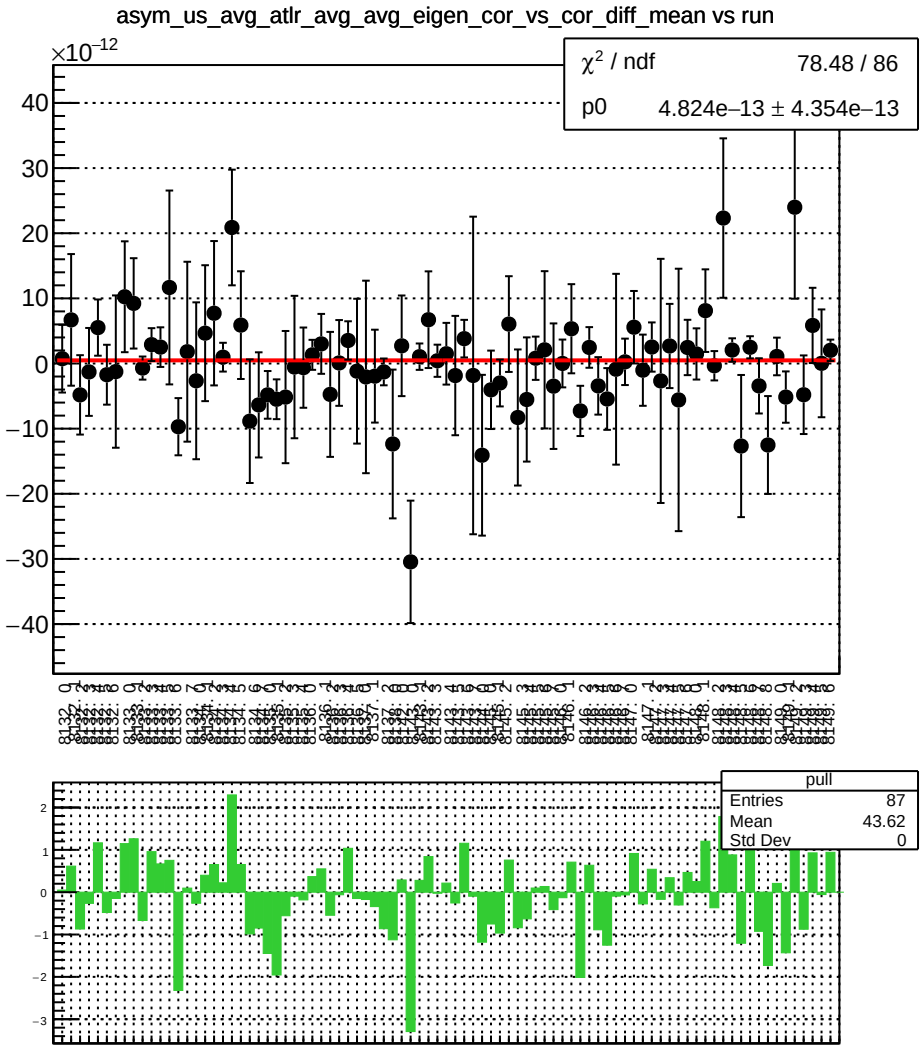

pull1D
Entries 87
Mean −0.01723
Std Dev 0.9933

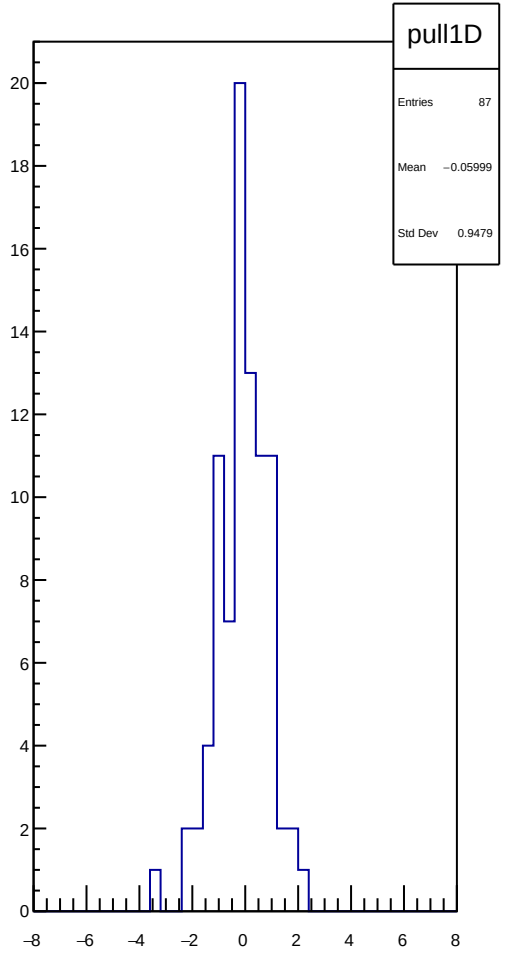

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.901e+04 / 86
p0 166.6 ± 0.1305
500
450
400
350
300
250
200
150
100

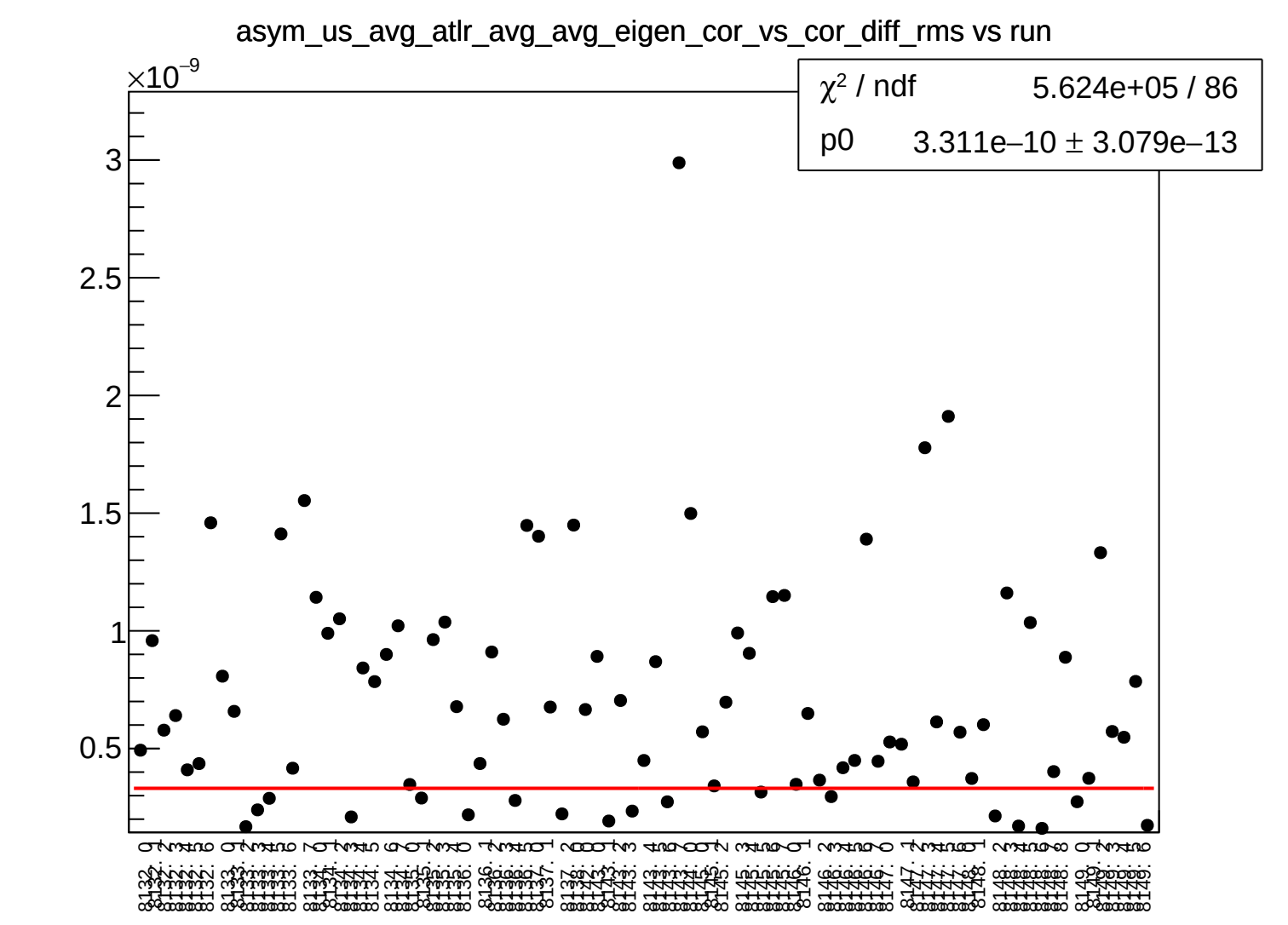

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.87 / 86
p0 0.2724 ± 0.1846
pull
Entries 87
Mean −0.1557
Std Dev 0

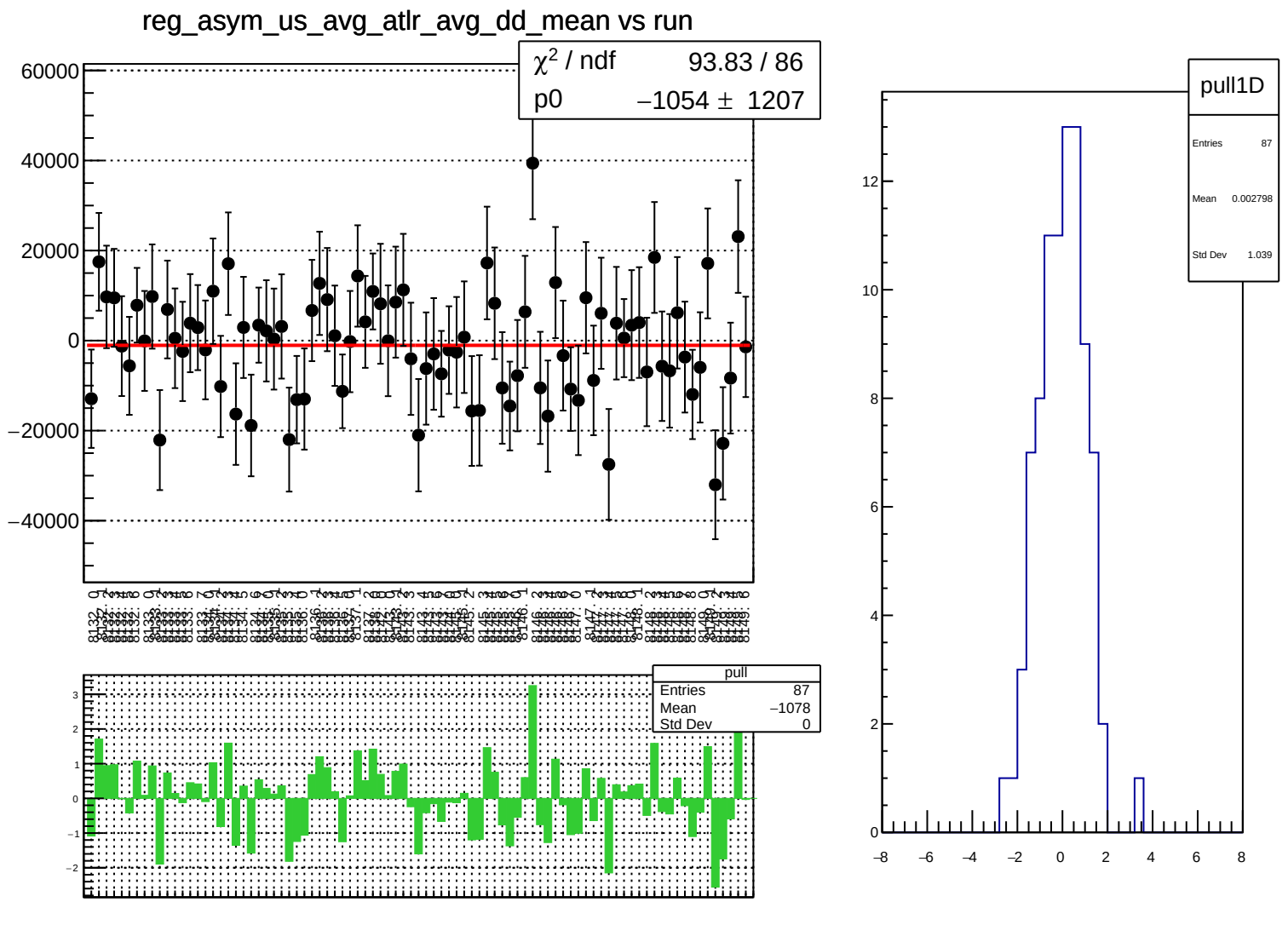

pull1D
Entries 87
Mean −0.01723
Std Dev 0.9933

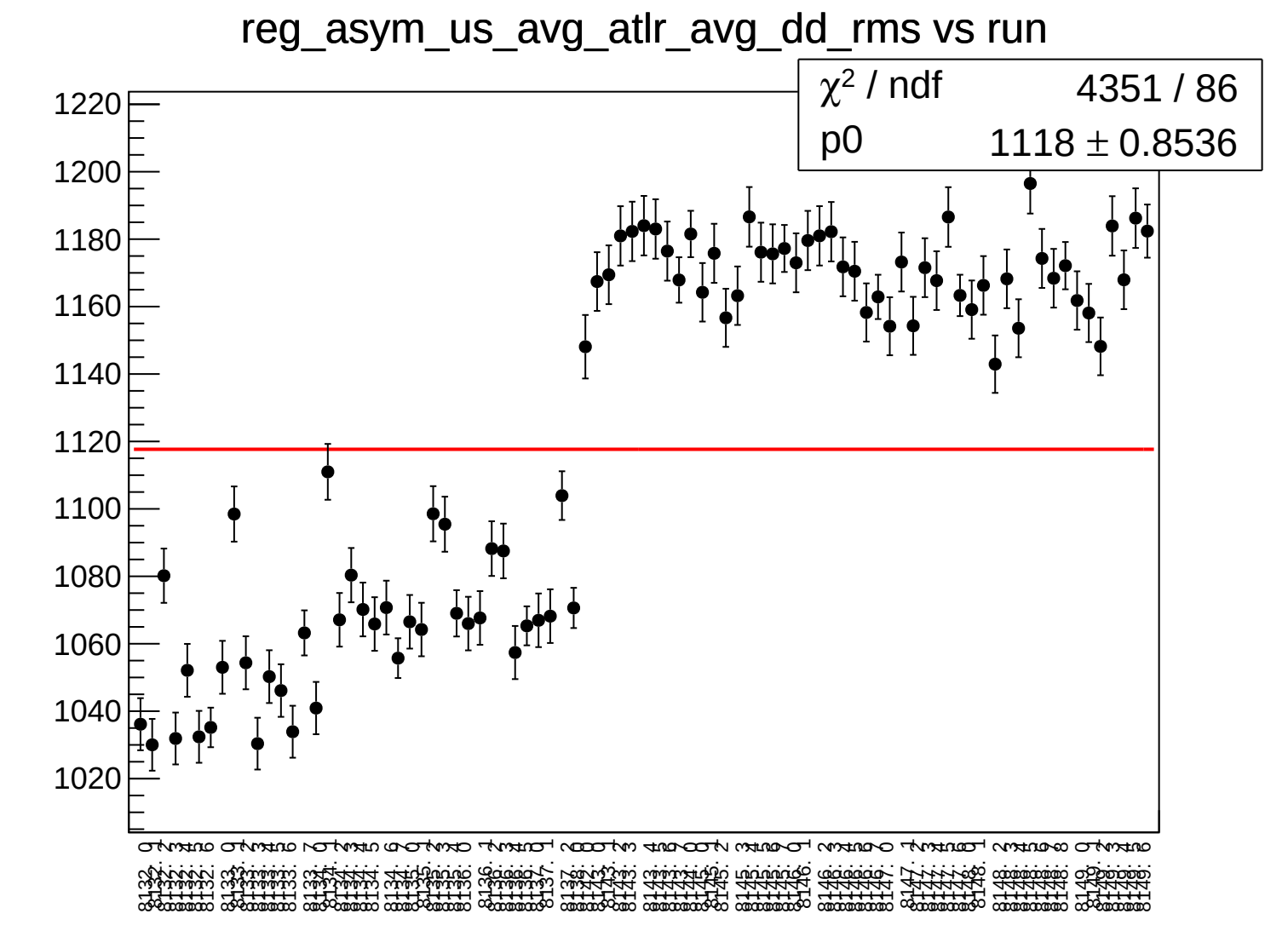

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.901e+04 / 86
p0 166.6 ± 0.1305
500
450
400
350
300
250
200
150
100

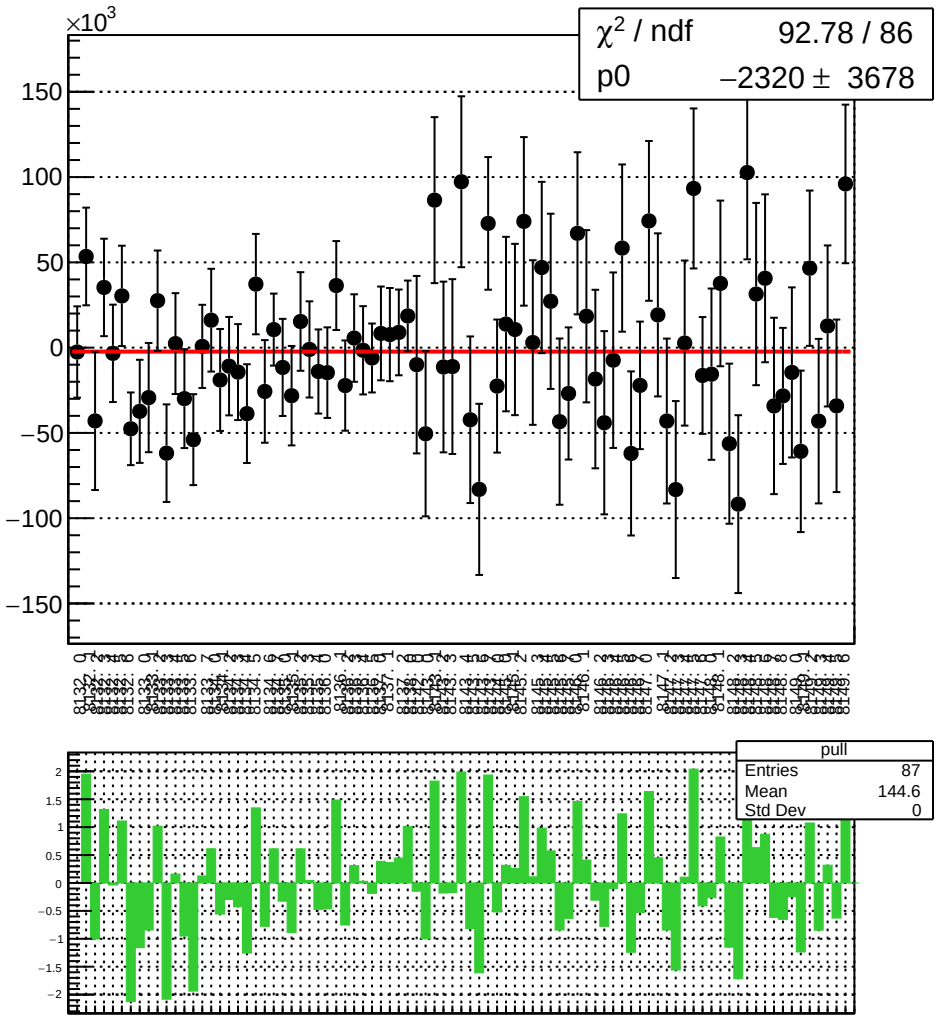

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.48 / 86
p0 4.824e−13 ± 4.354e−13
pull
Entries 87
Mean 43.62
Std Dev 0

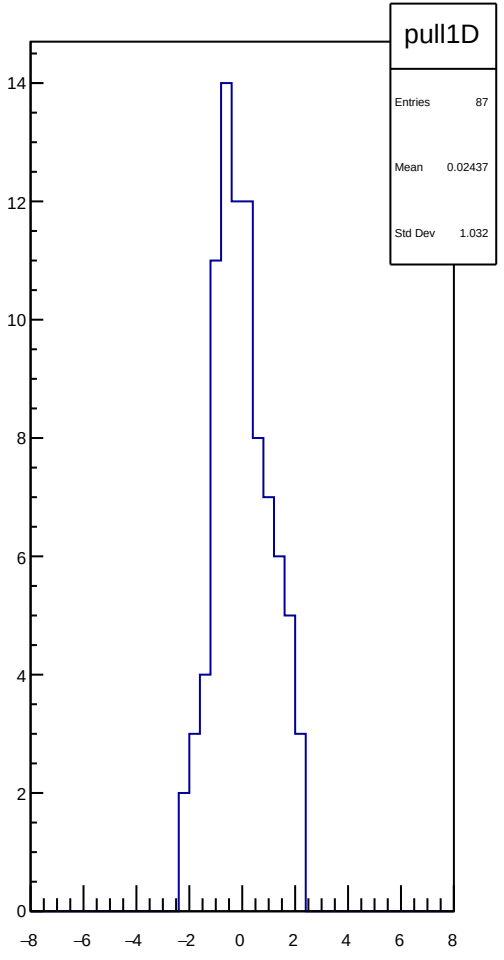

pull1D
Entries 87
Mean −0.05999
Std Dev 0.9479


asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.624e+05 / 86
p0 3.311e−10 ± 3.079e−13
3
2.5
2
1.5
1
0.5


reg_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 93.83 / 86
p0 −1054 ± 1207
60000
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −1078
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.002798
Std Dev 1.039
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 4351 / 86
p0 1118 ± 0.8536
1220
1200
1180
1160
1140
1120
1100
1080
1060
1040
1020


asym_us_avg_atlr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 92.78 / 86
p0 −2320 ± 3678
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean 144.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 87
Mean 0.02437
Std Dev 1.032
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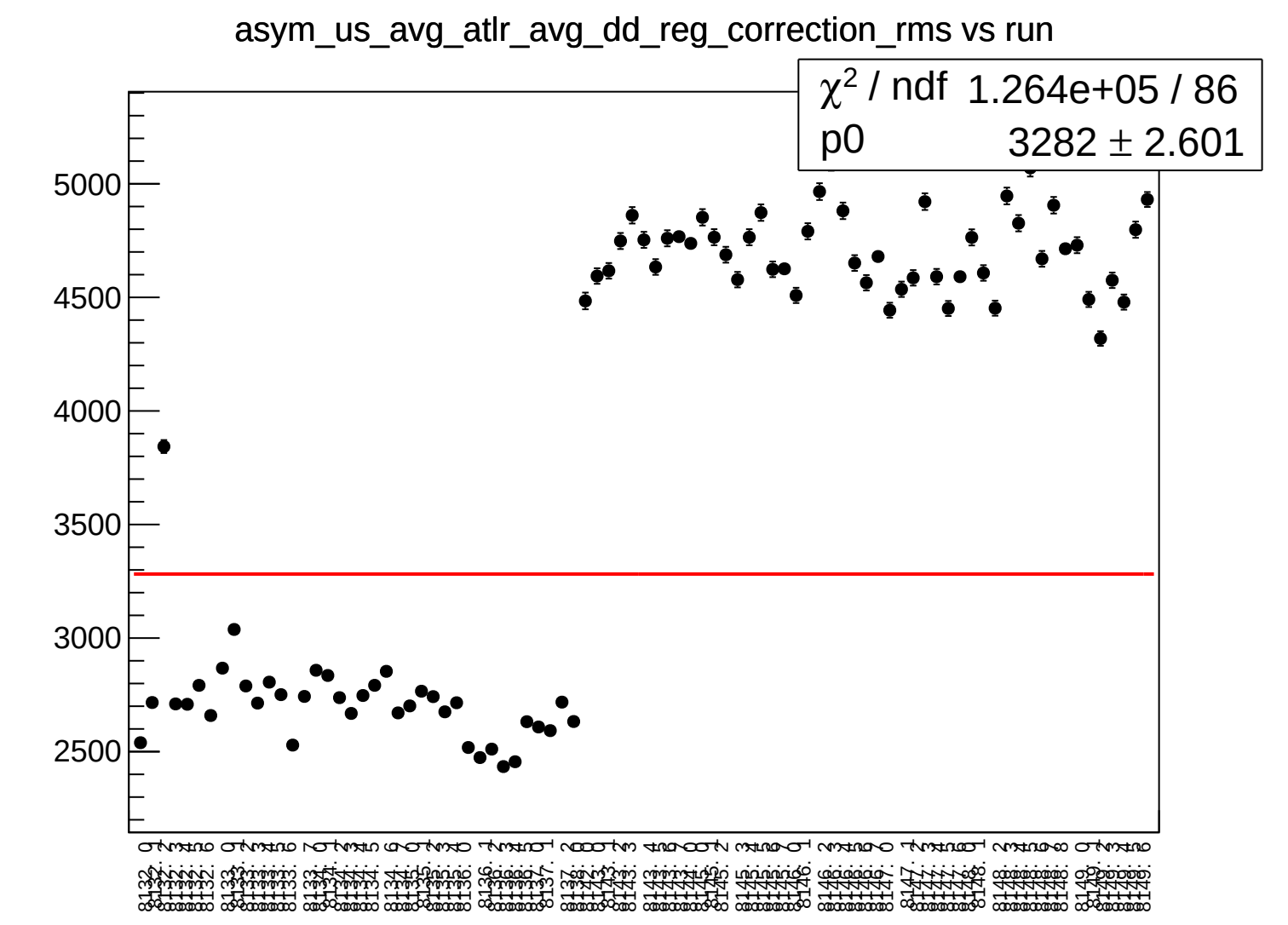
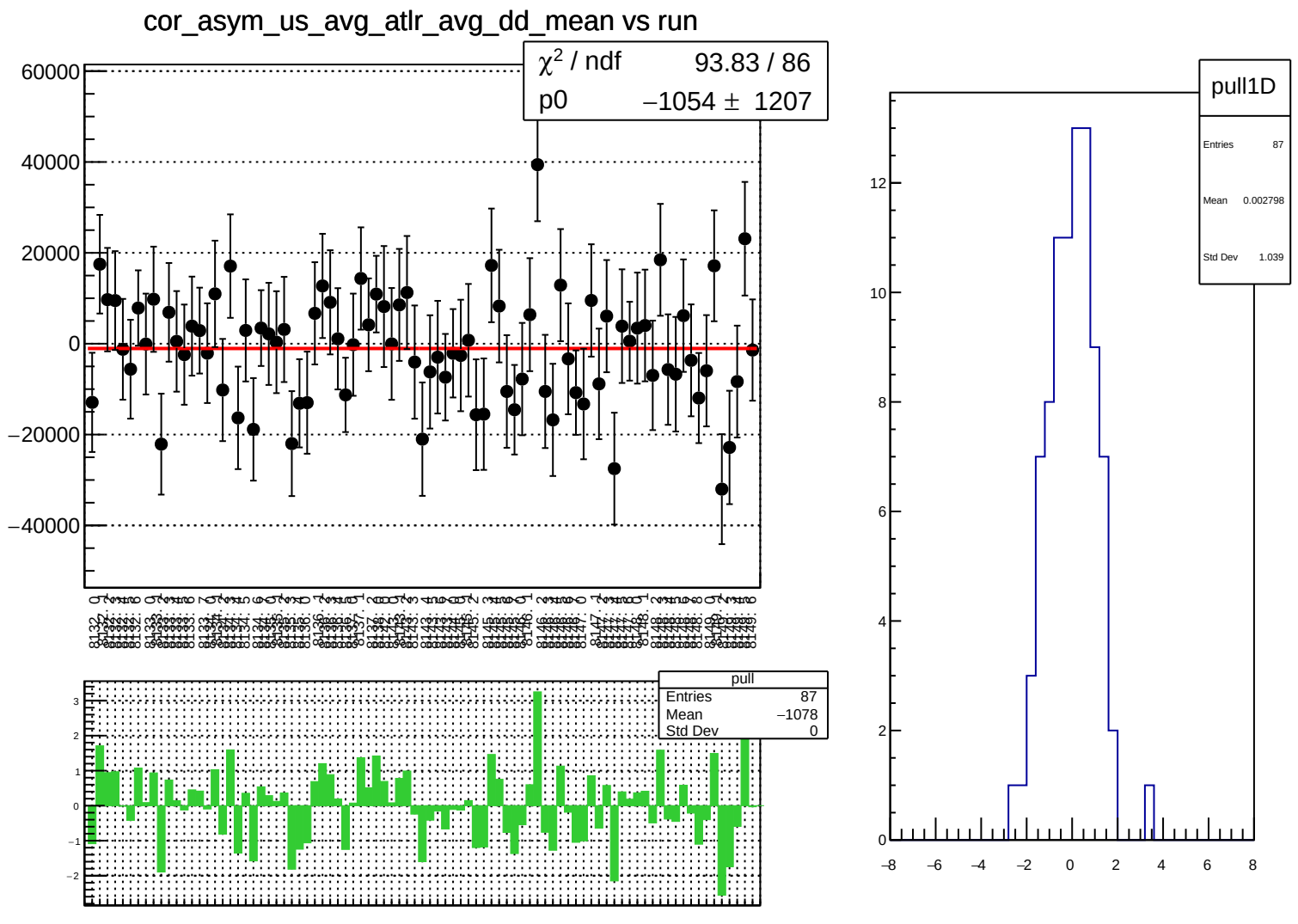
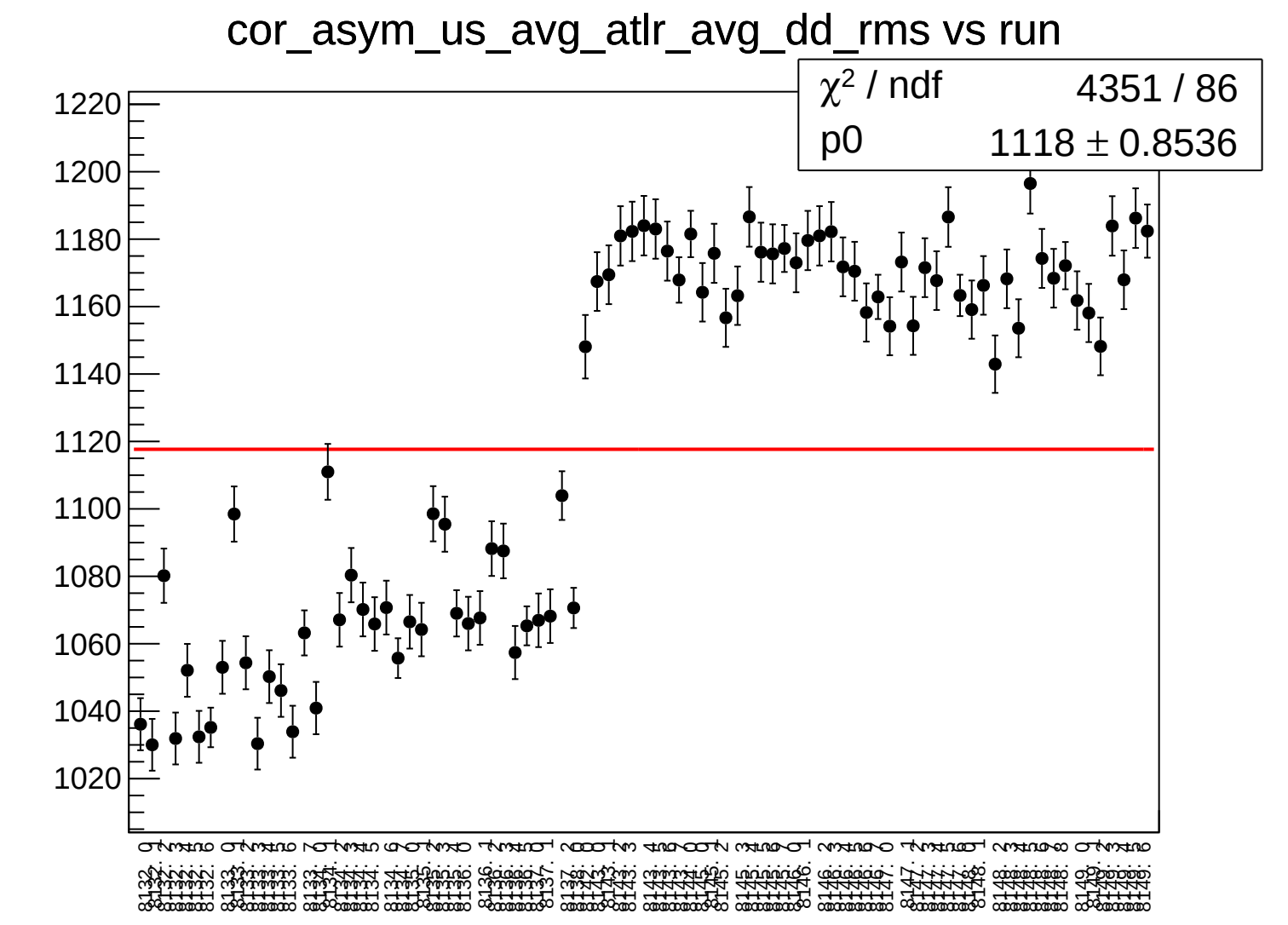
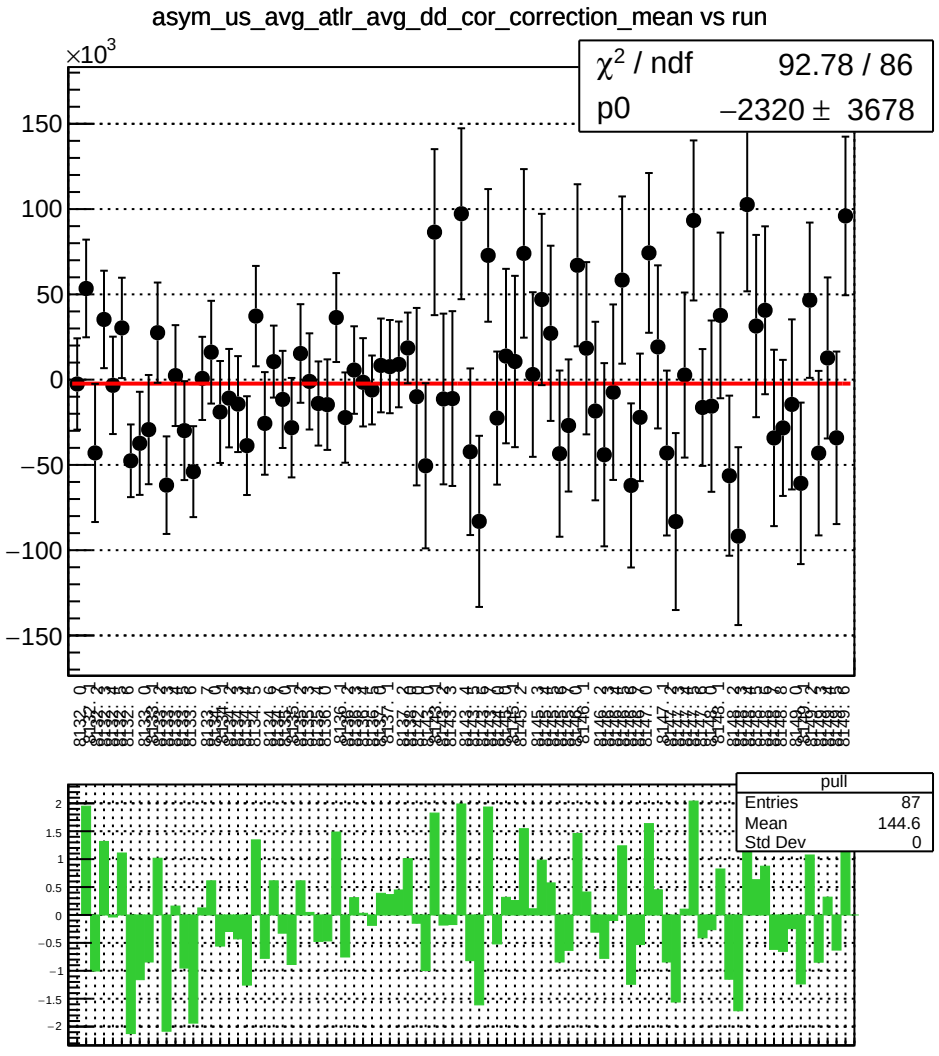
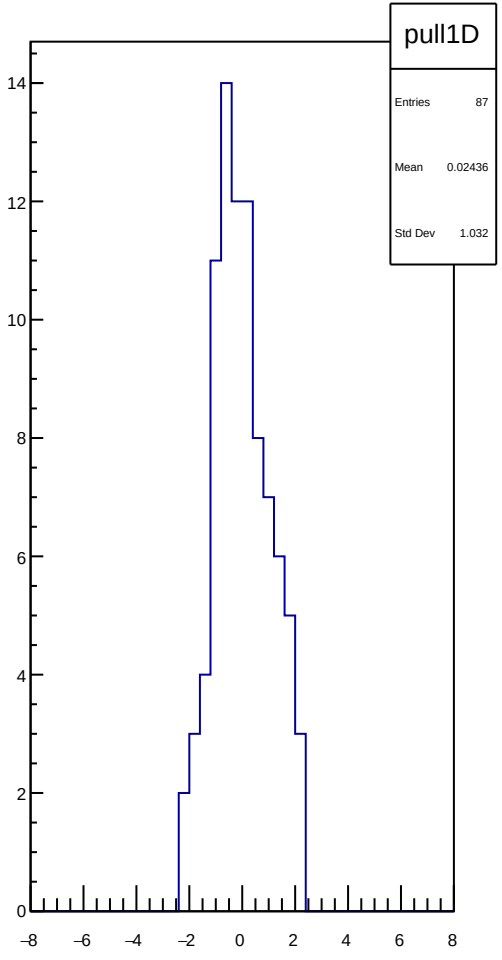
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_atlr_avg_dd_reg_correction_rms vs run
χ² / ndf 1.264e+05 / 86
p0 3282 ± 2.601
5000
4500
4000
3500
3000
2500


cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 93.83 / 86
p0 −1054 ± 1207
60000
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −1078
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.002798
Std Dev 1.039
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 4351 / 86
p0 1118 ± 0.8536
1220
1200
1180
1160
1140
1120
1100
1080
1060
1040
1020


asym_us_avg_atlr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 92.78 / 86
p0 −2320 ± 3678
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean 144.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 87
Mean 0.02436
Std Dev 1.032
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12
10
8
6
4
2
0
−8
−6
−4
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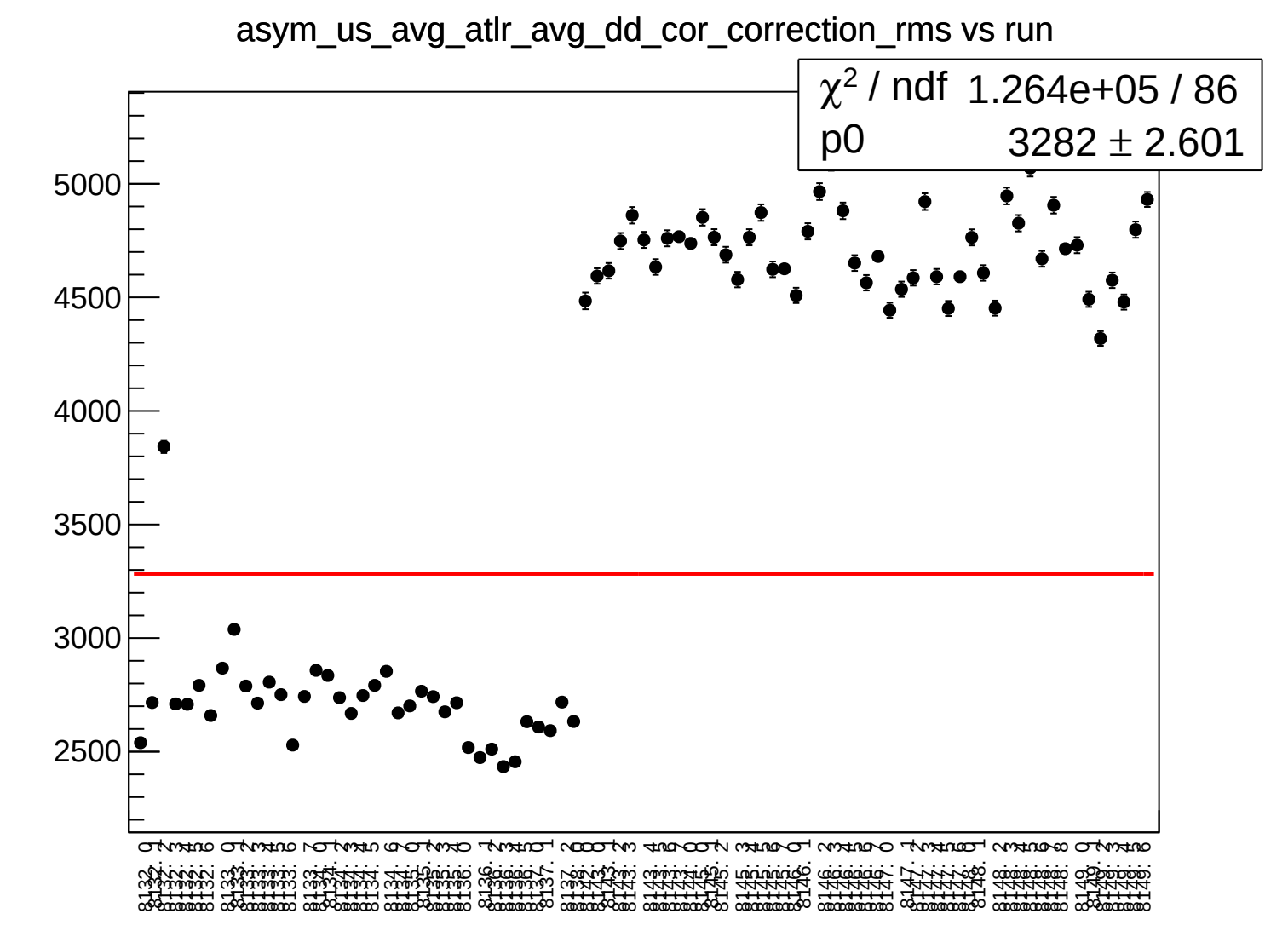
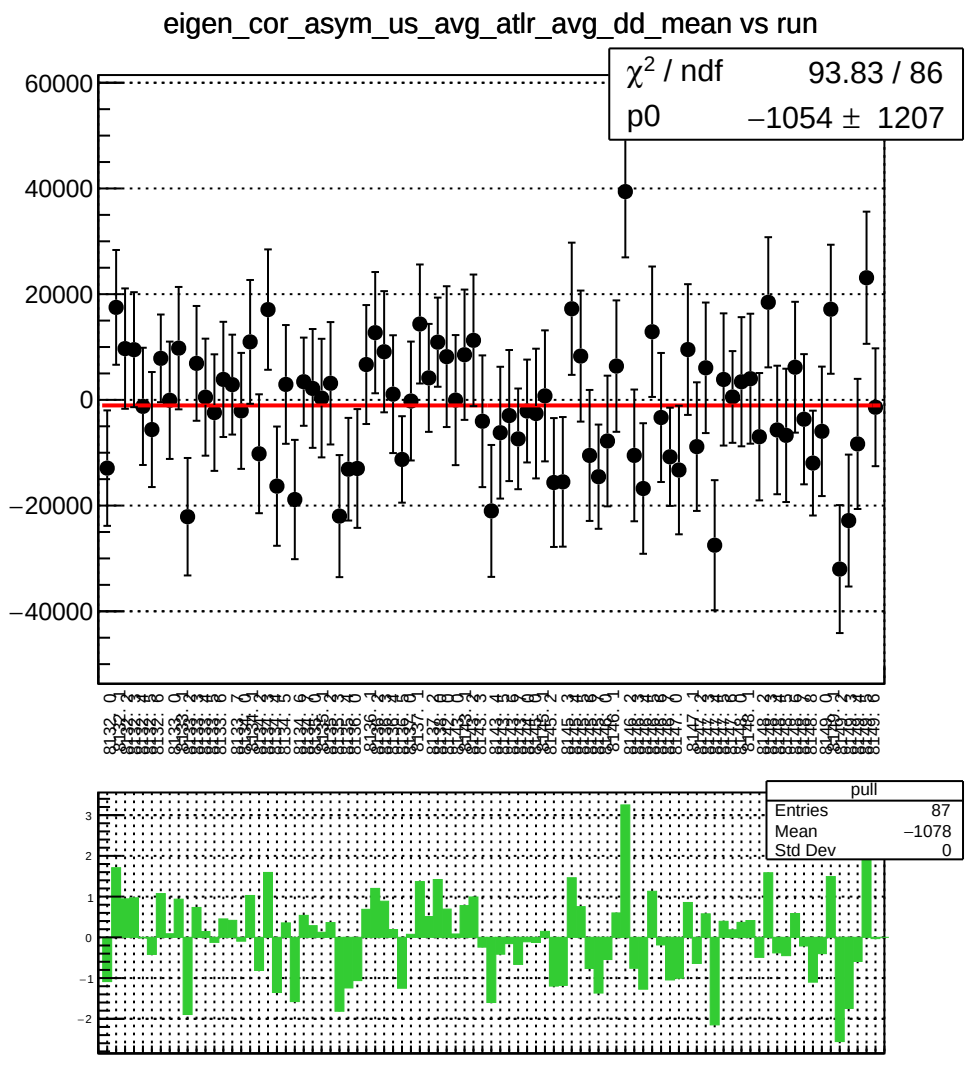
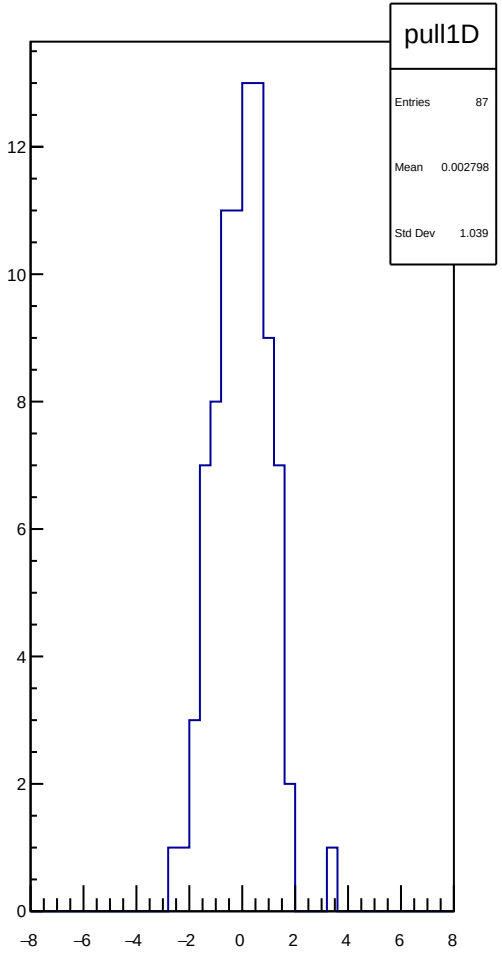
2
4
6
8


asym_us_avg_atlr_avg_dd_cor_correction_rms vs run
χ² / ndf 1.264e+05 / 86
p0 3282 ± 2.601
5000
4500
4000
3500
3000
2500


eigen_cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 93.83 / 86
p0 −1054 ± 1207
60000
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −1078
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 87
Mean 0.002798
Std Dev 1.039
12
10
8
6
4
2
0
−8
−6
−4
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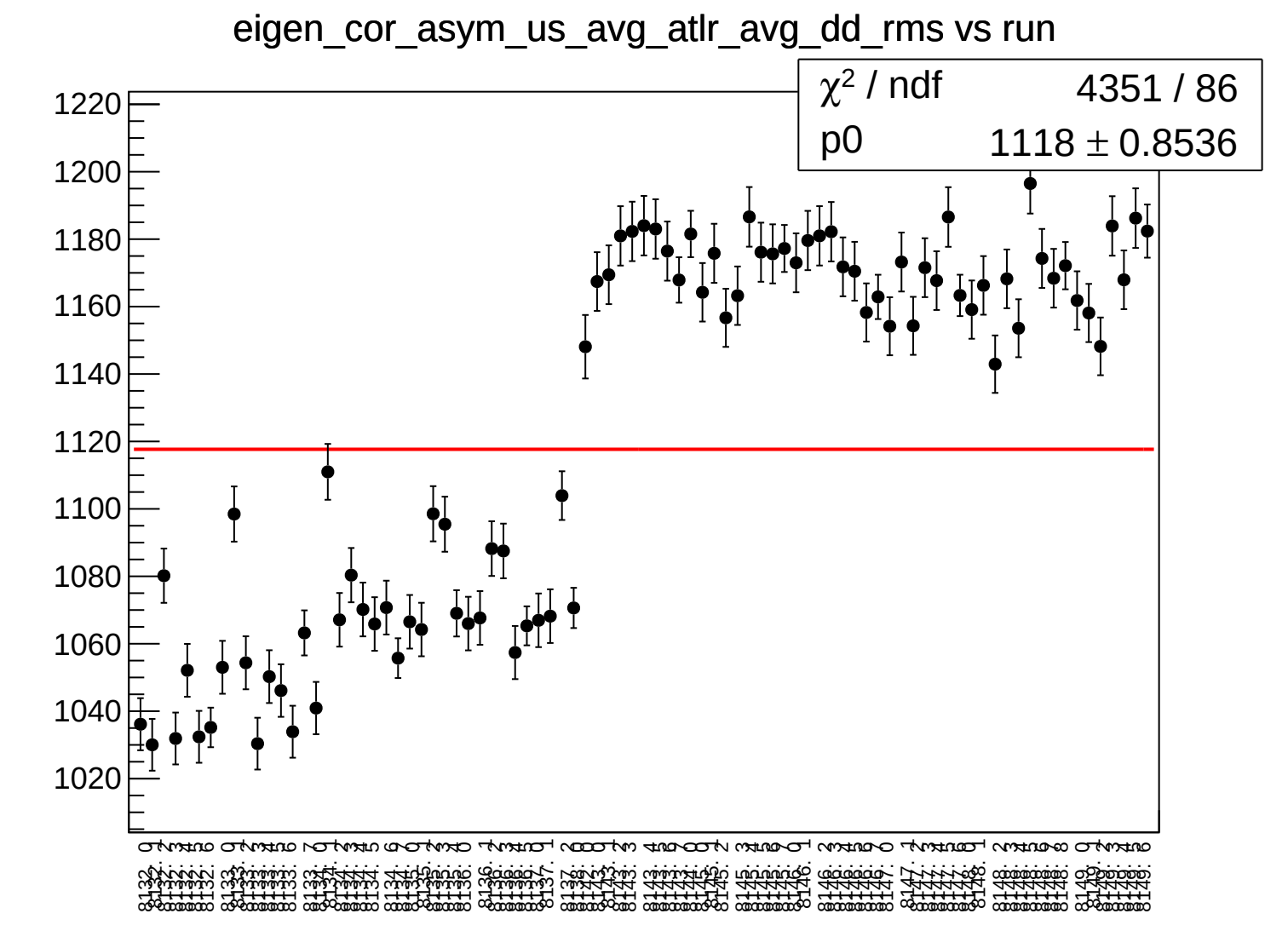
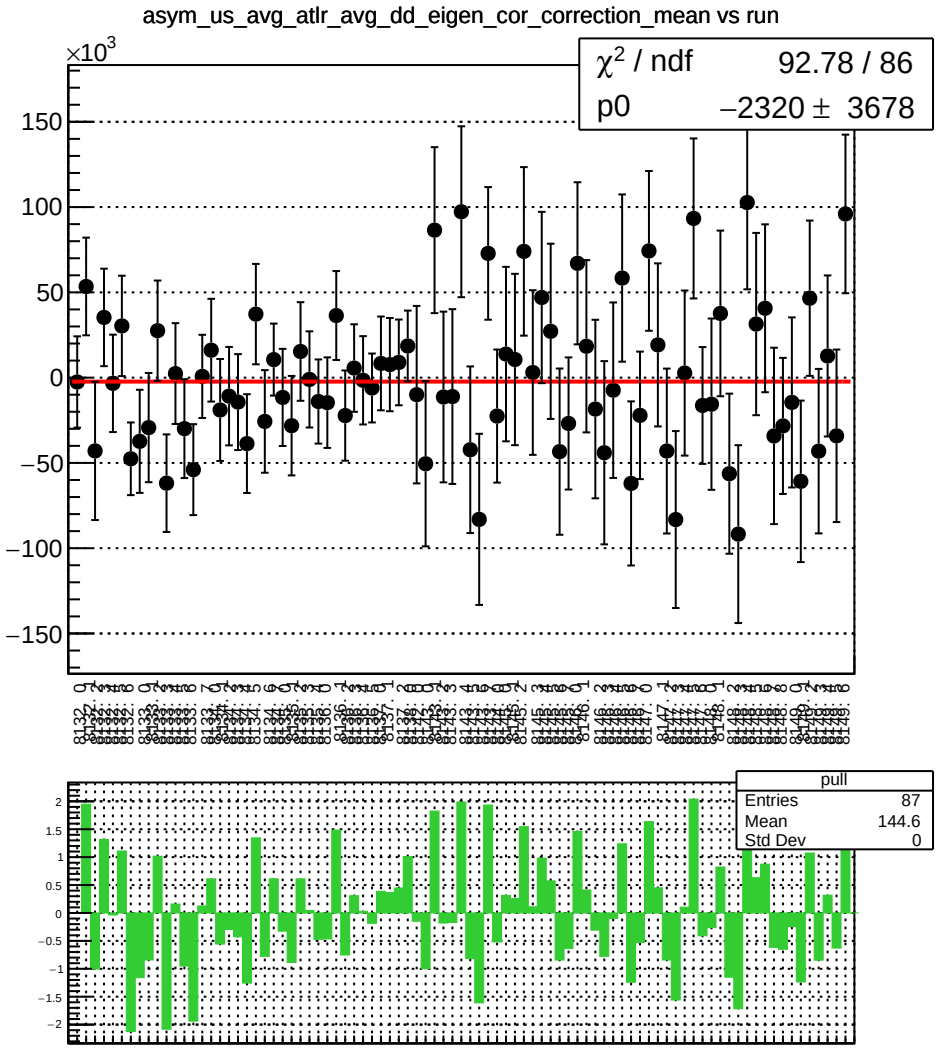
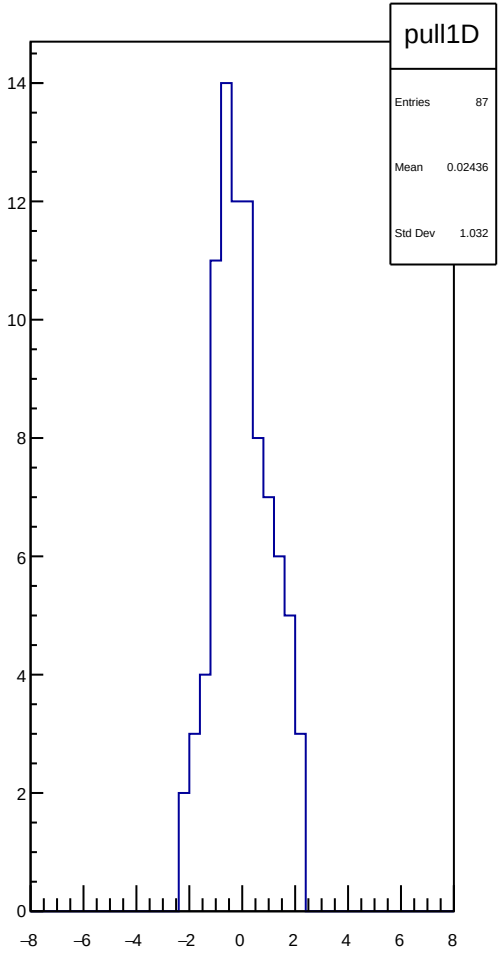
2
4
6
8


eigen_cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 4351 / 86
p0 1118 ± 0.8536
1220
1200
1180
1160
1140
1120
1100
1080
1060
1040
1020


asym_us_avg_atlr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 92.78 / 86
p0 −2320 ± 3678
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean 144.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 87
Mean 0.02436
Std Dev 1.032
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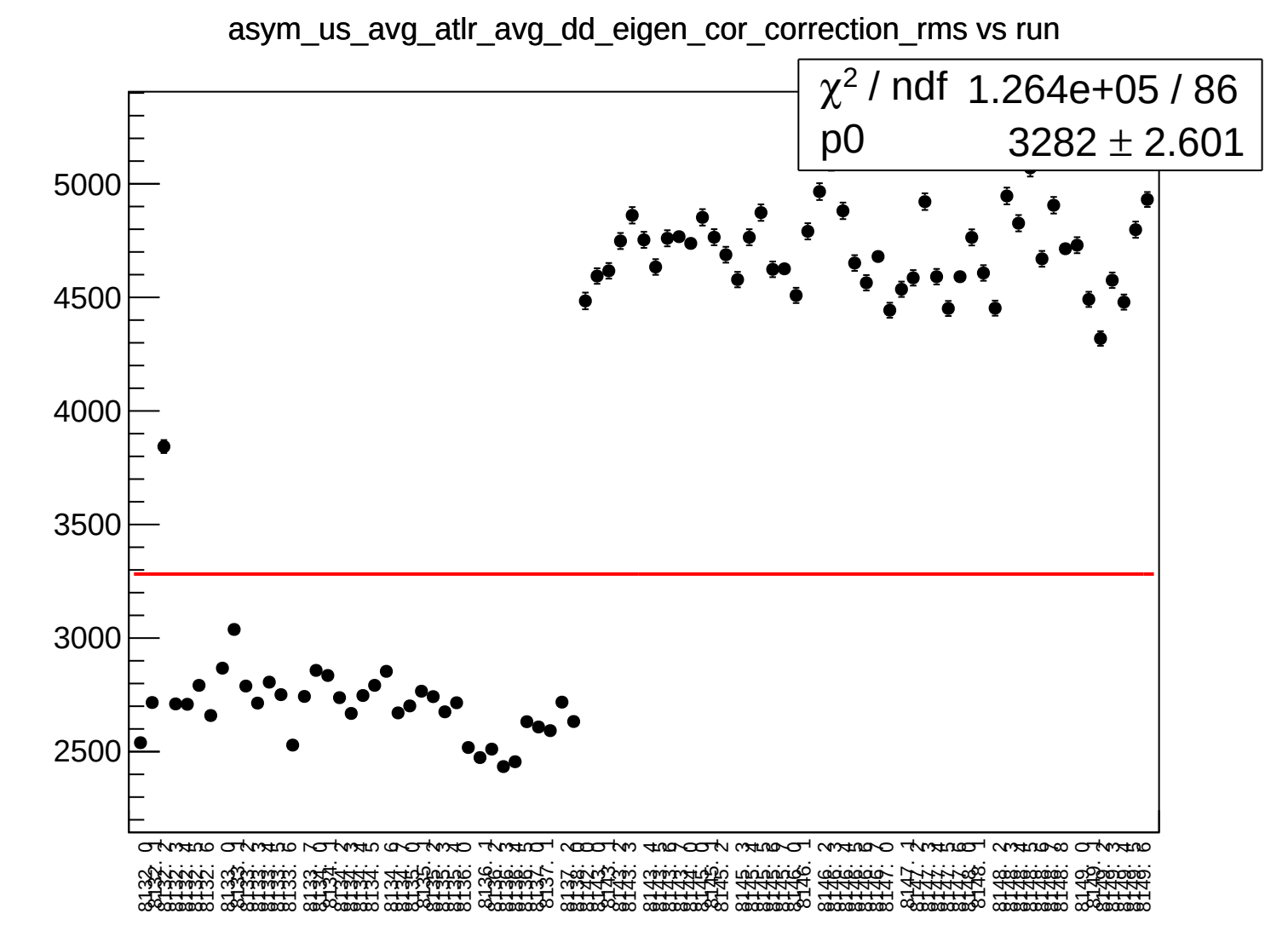
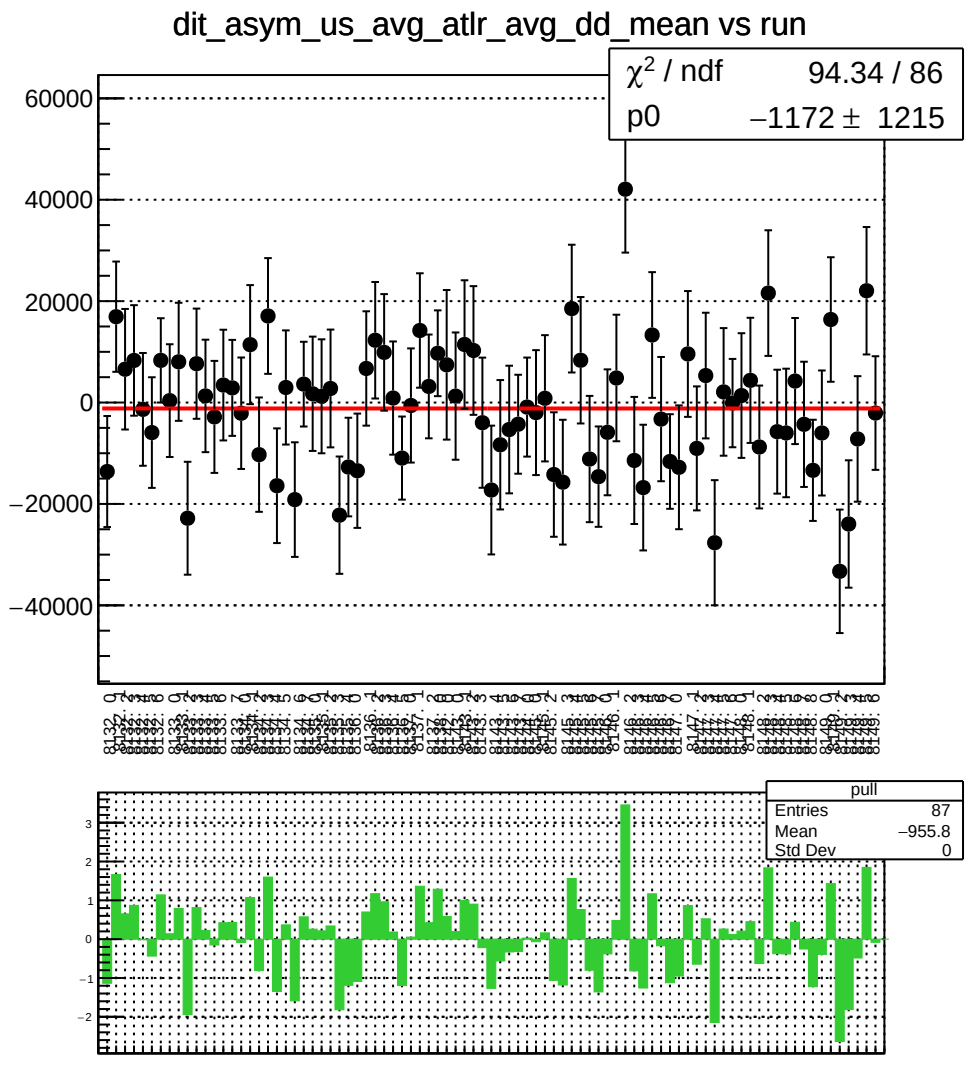
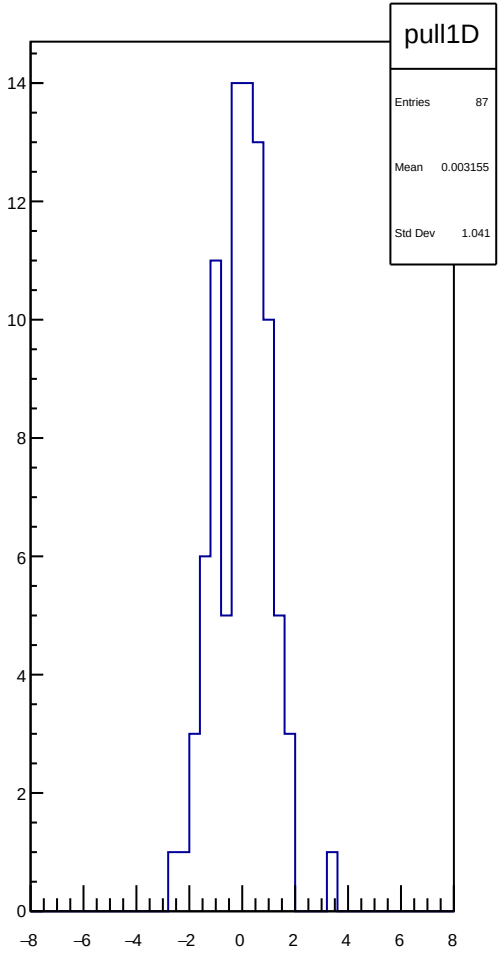
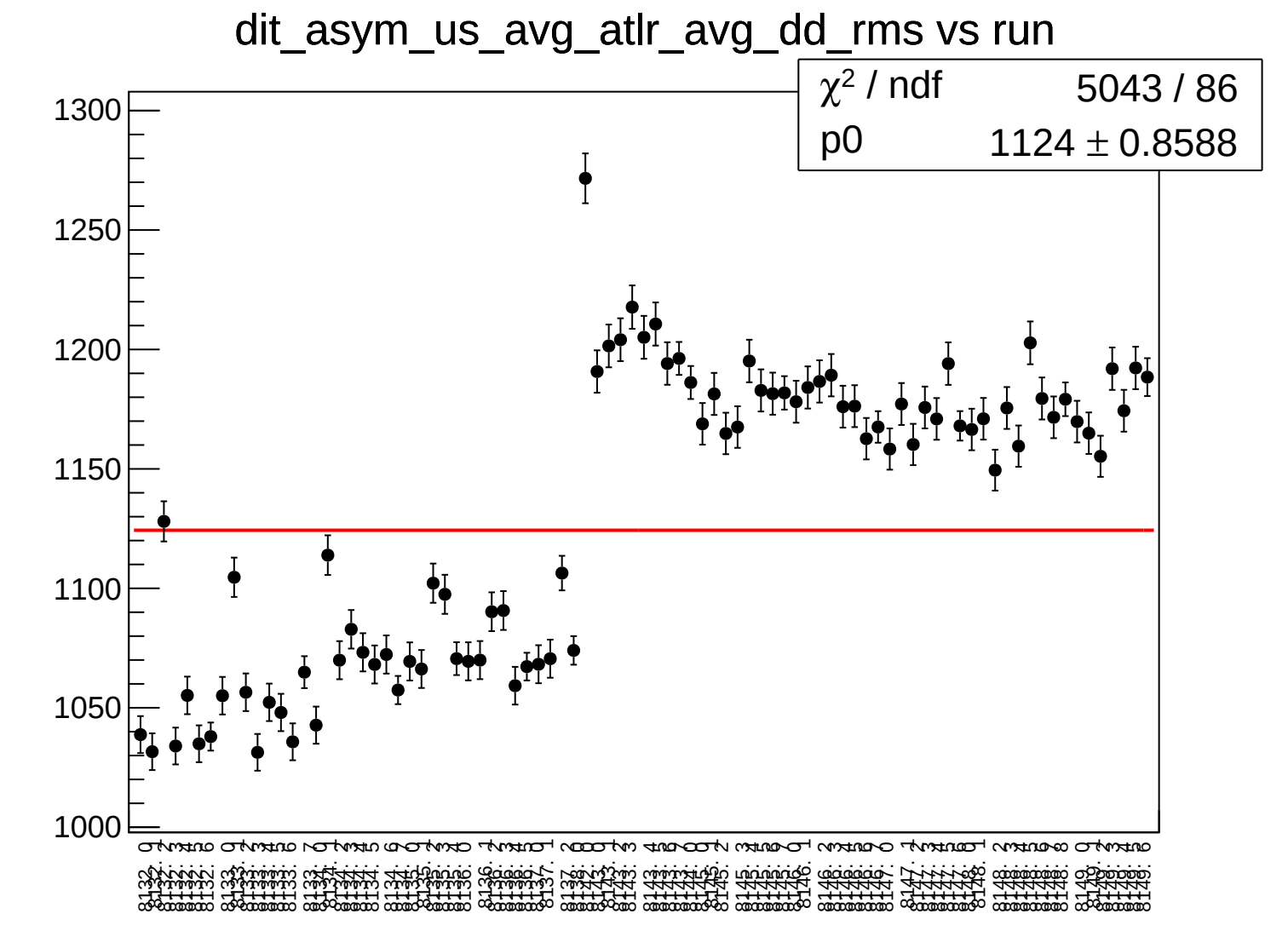
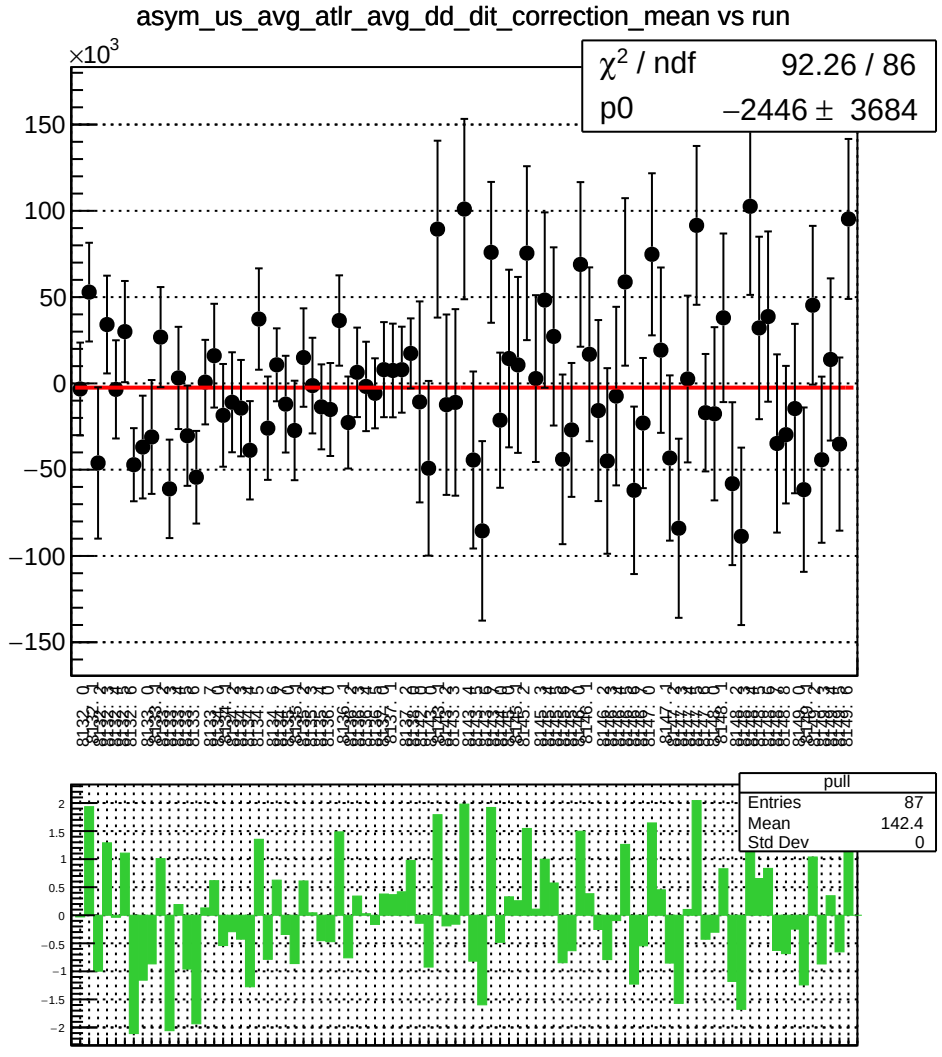
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

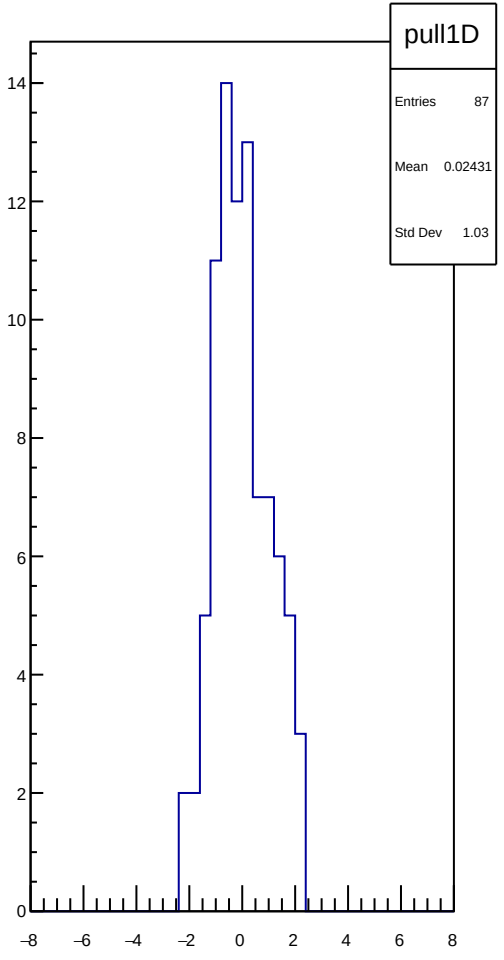

asym_us_avg_atlr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.264e+05 / 86
p0 3282 ± 2.601
5000
4500
4000
3500
3000
2500

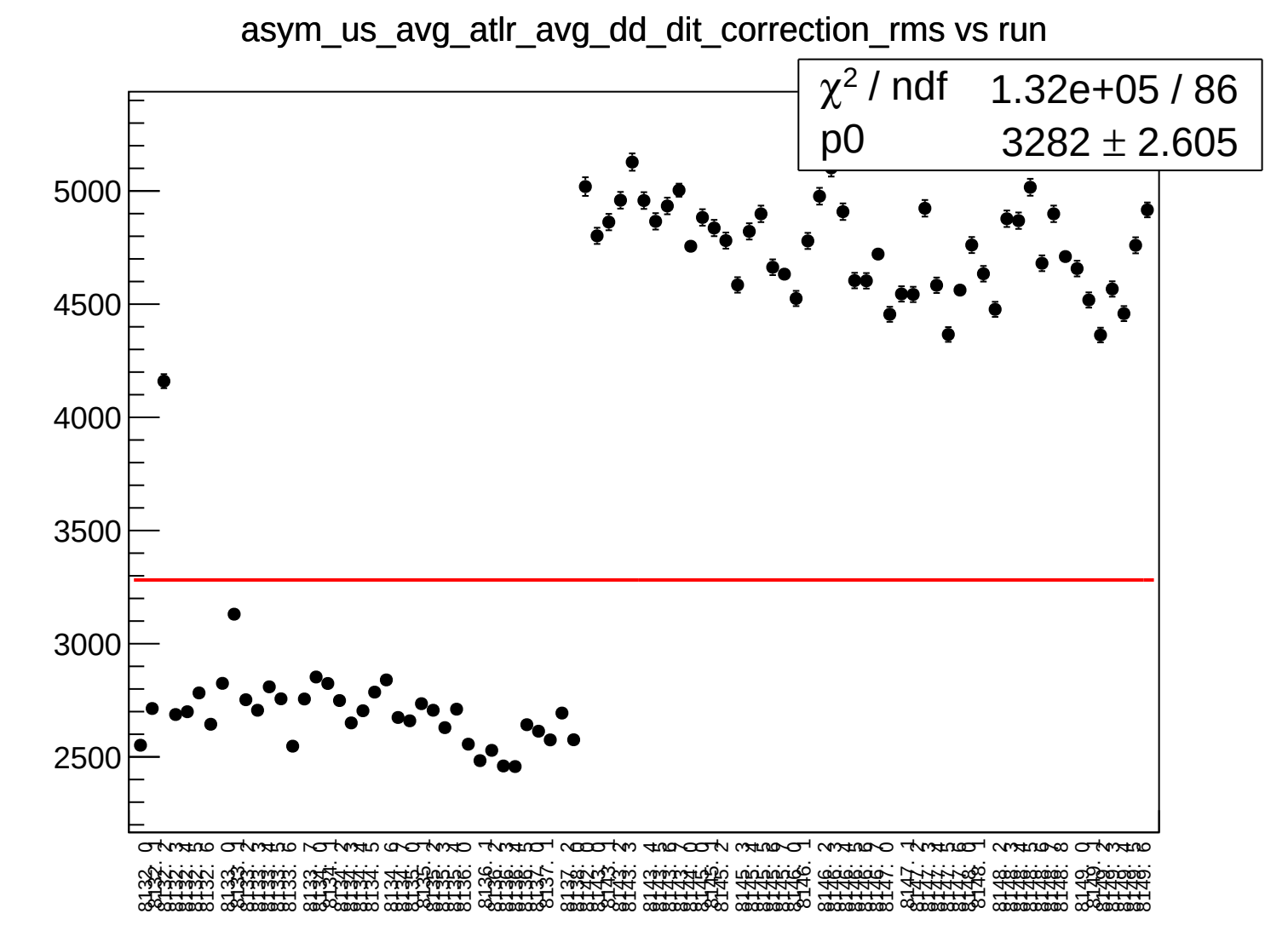

dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 94.34 / 86
p0 −1172 ± 1215
60000
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −955.8
Std Dev 0
3
2
1
0
−1
−2

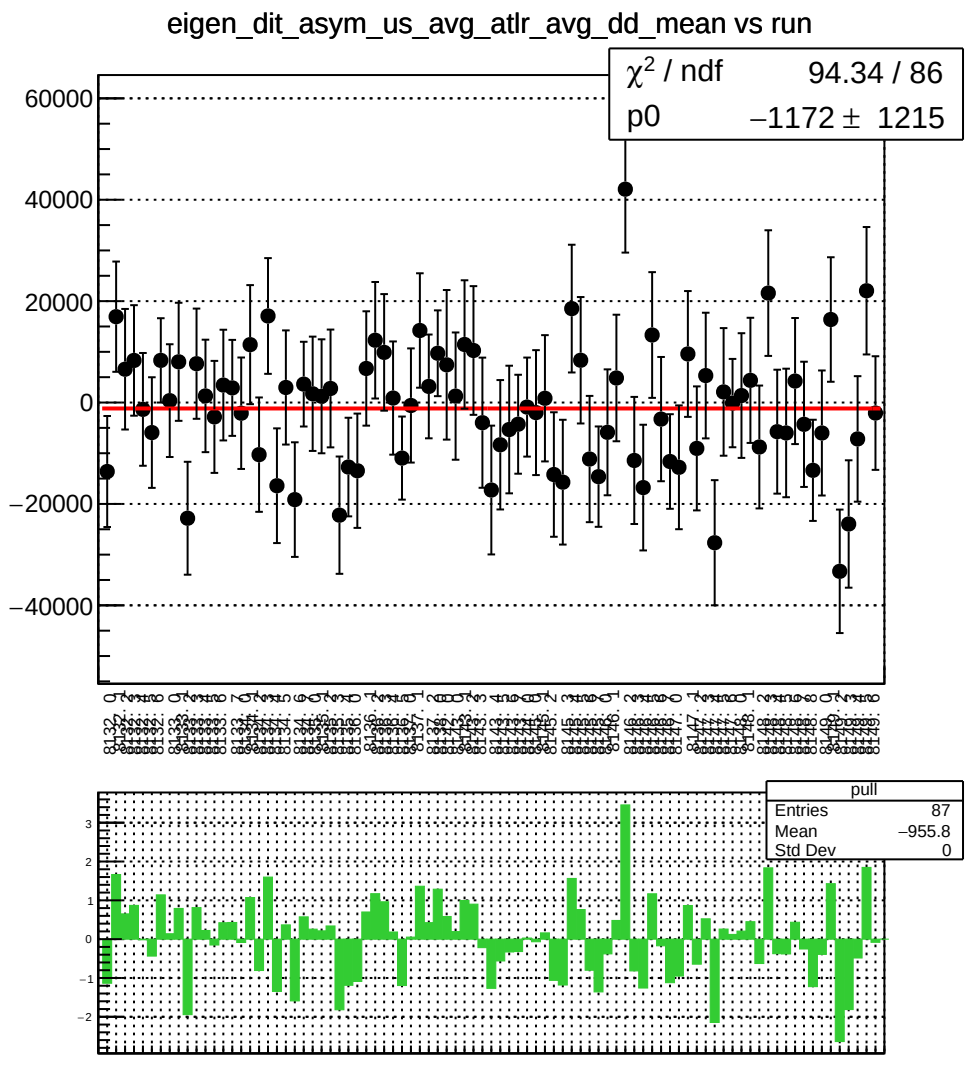

pull1D
Entries 87
Mean 0.003155
Std Dev 1.041
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

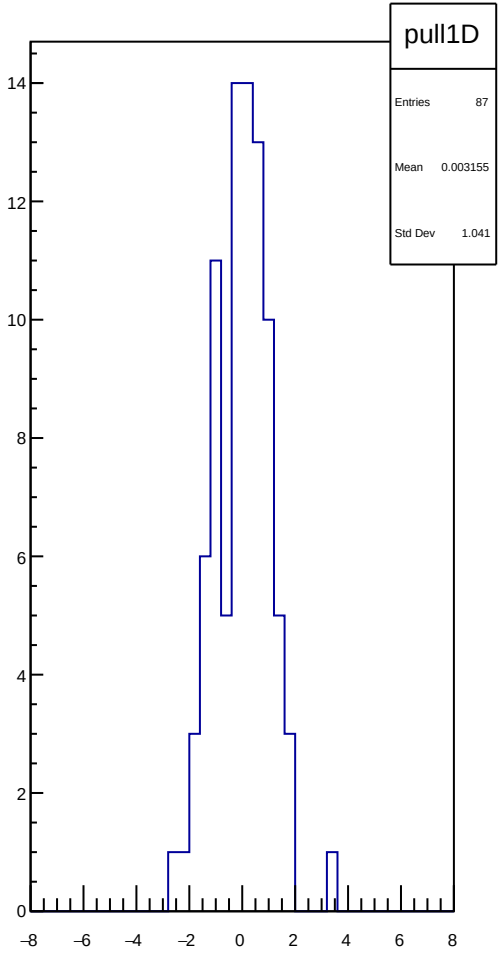

dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 5043 / 86
p0 1124 ± 0.8588
1300
1250
1200
1150
1100
1050
1000

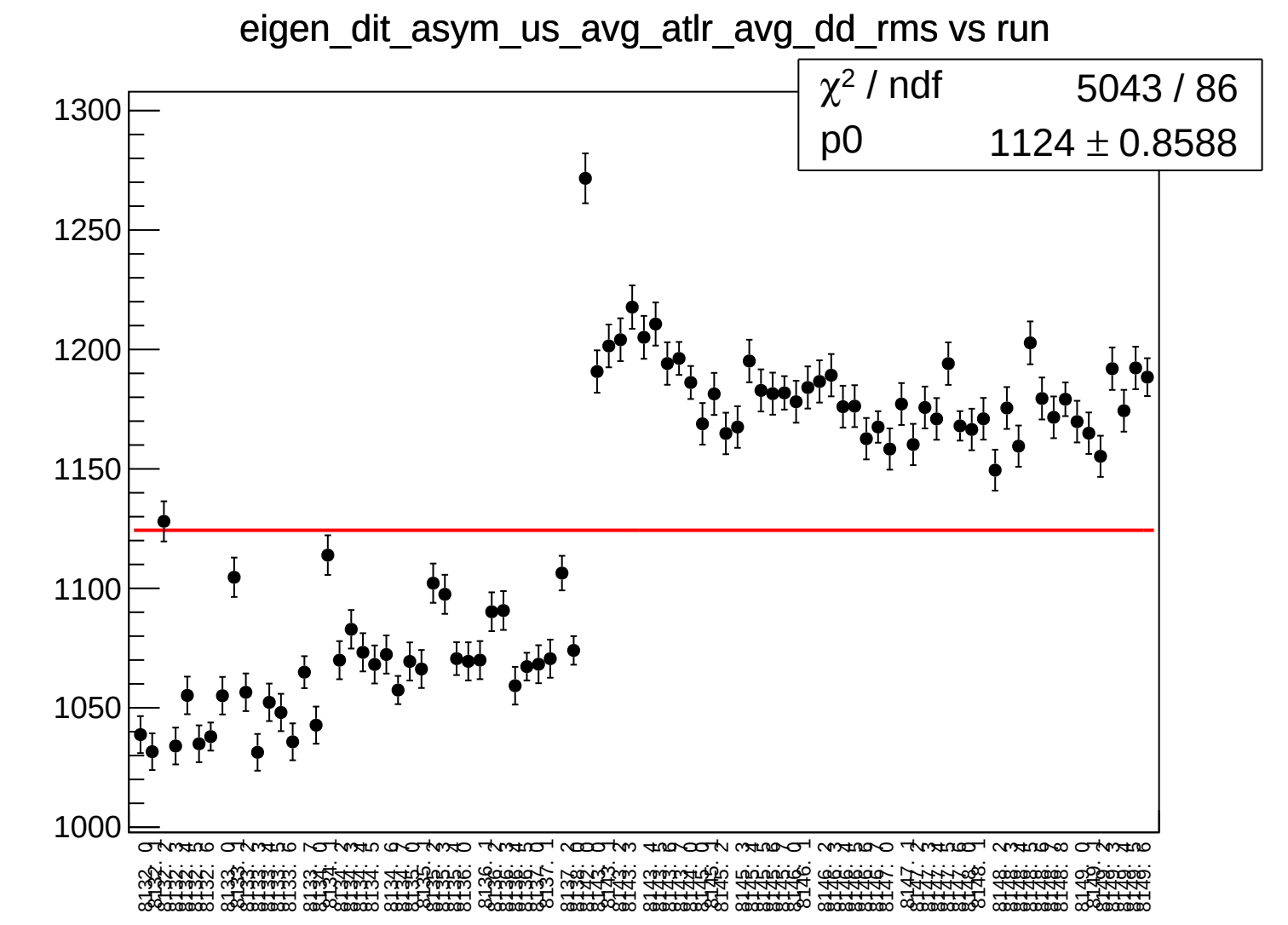

asym_us_avg_atlr_avg_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 92.26 / 86
p0 −2446 ± 3684
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean 142.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

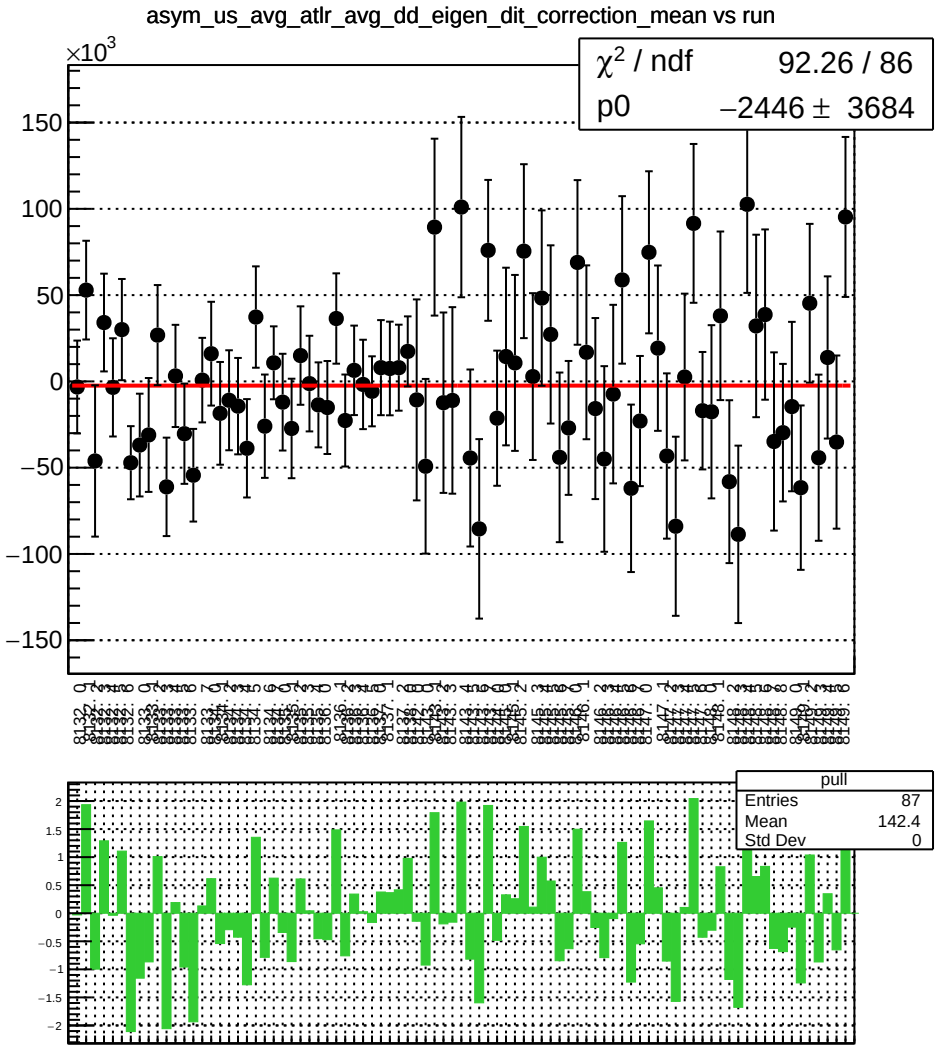

pull1D
Entries 87
Mean 0.02431
Std Dev 1.03
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

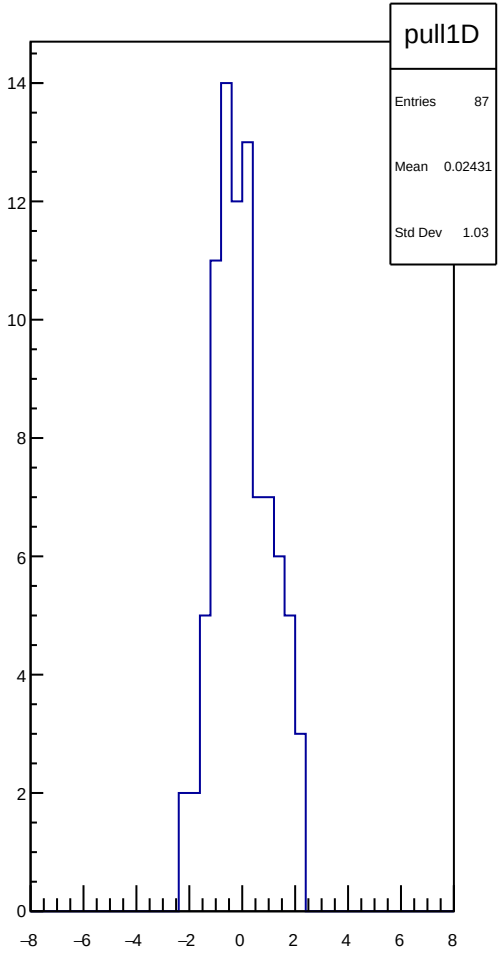

asym_us_avg_atlr_avg_dd_dit_correction_rms vs run
χ² / ndf 1.32e+05 / 86
p0 3282 ± 2.605
5000
4500
4000
3500
3000
2500

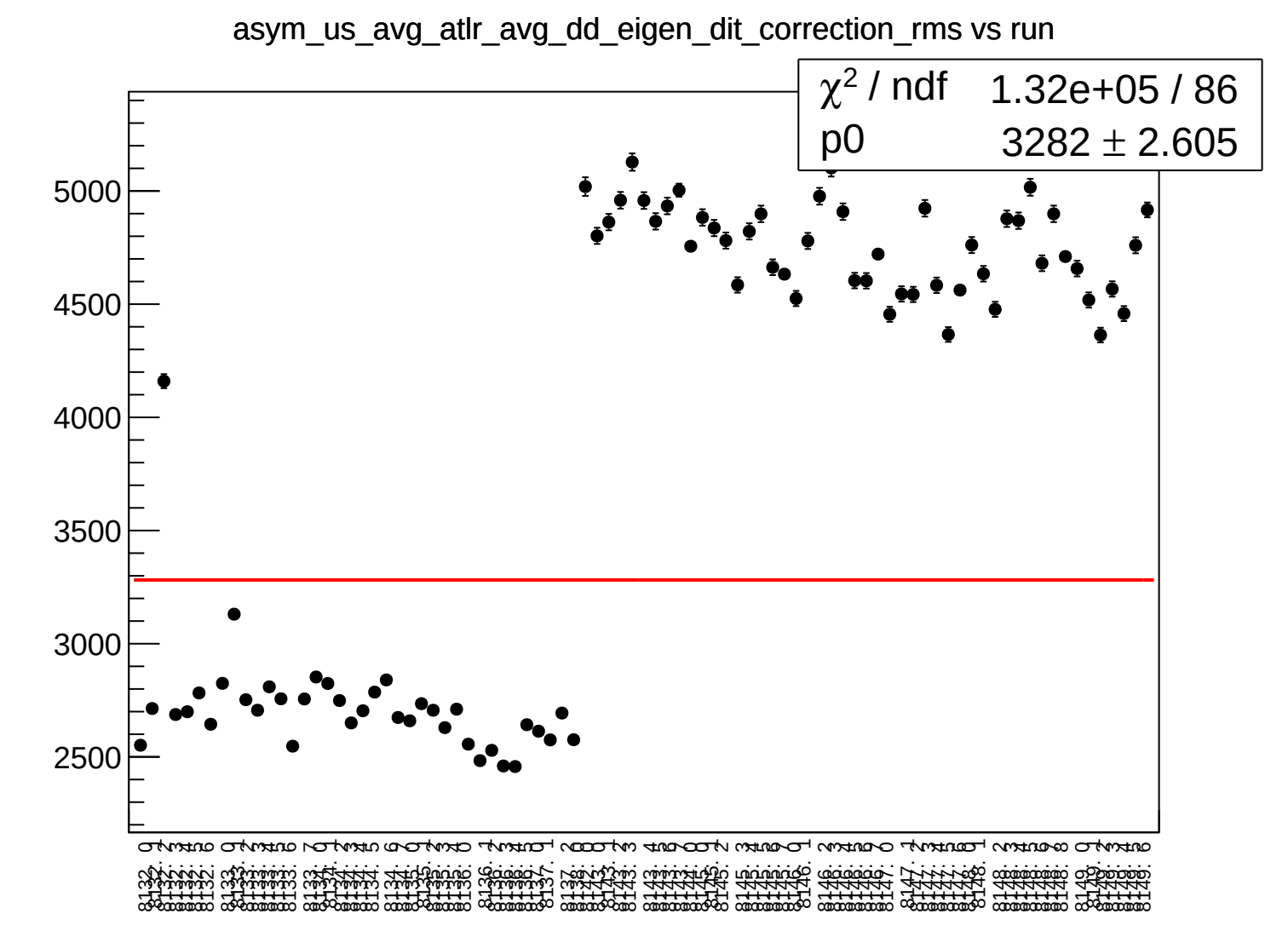

eigen_dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 94.34 / 86
p0 −1172 ± 1215
60000
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −955.8
Std Dev 0
3
2
1
0
−1
−2

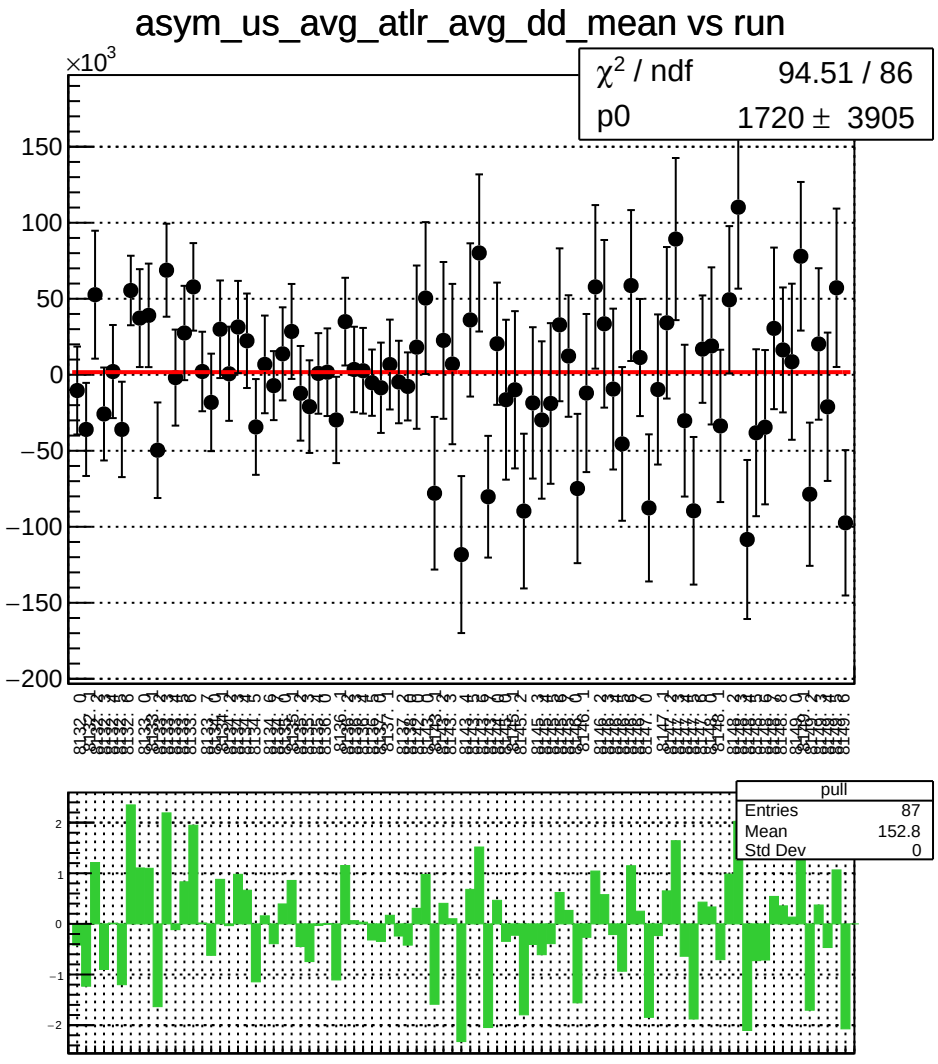

pull1D
Entries 87
Mean 0.003155
Std Dev 1.041
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

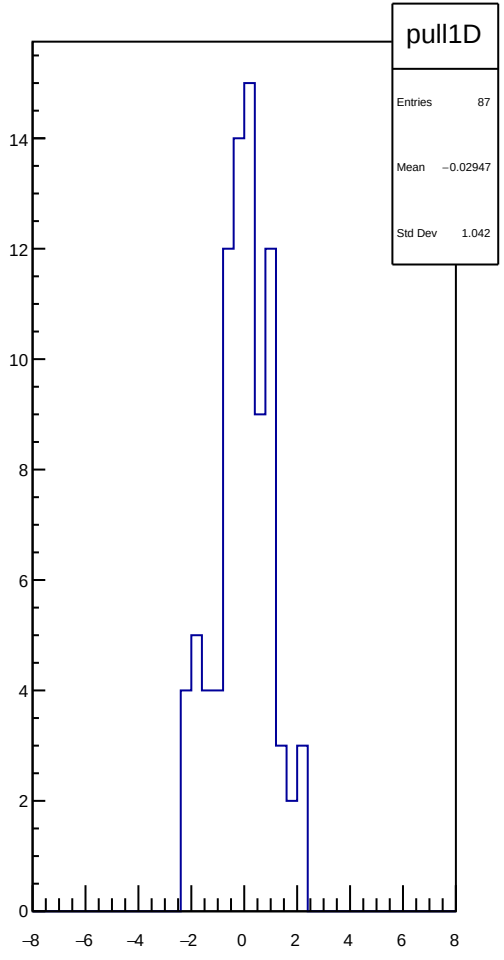

eigen_dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 5043 / 86
p0 1124 ± 0.8588
1300
1250
1200
1150
1100
1050
1000

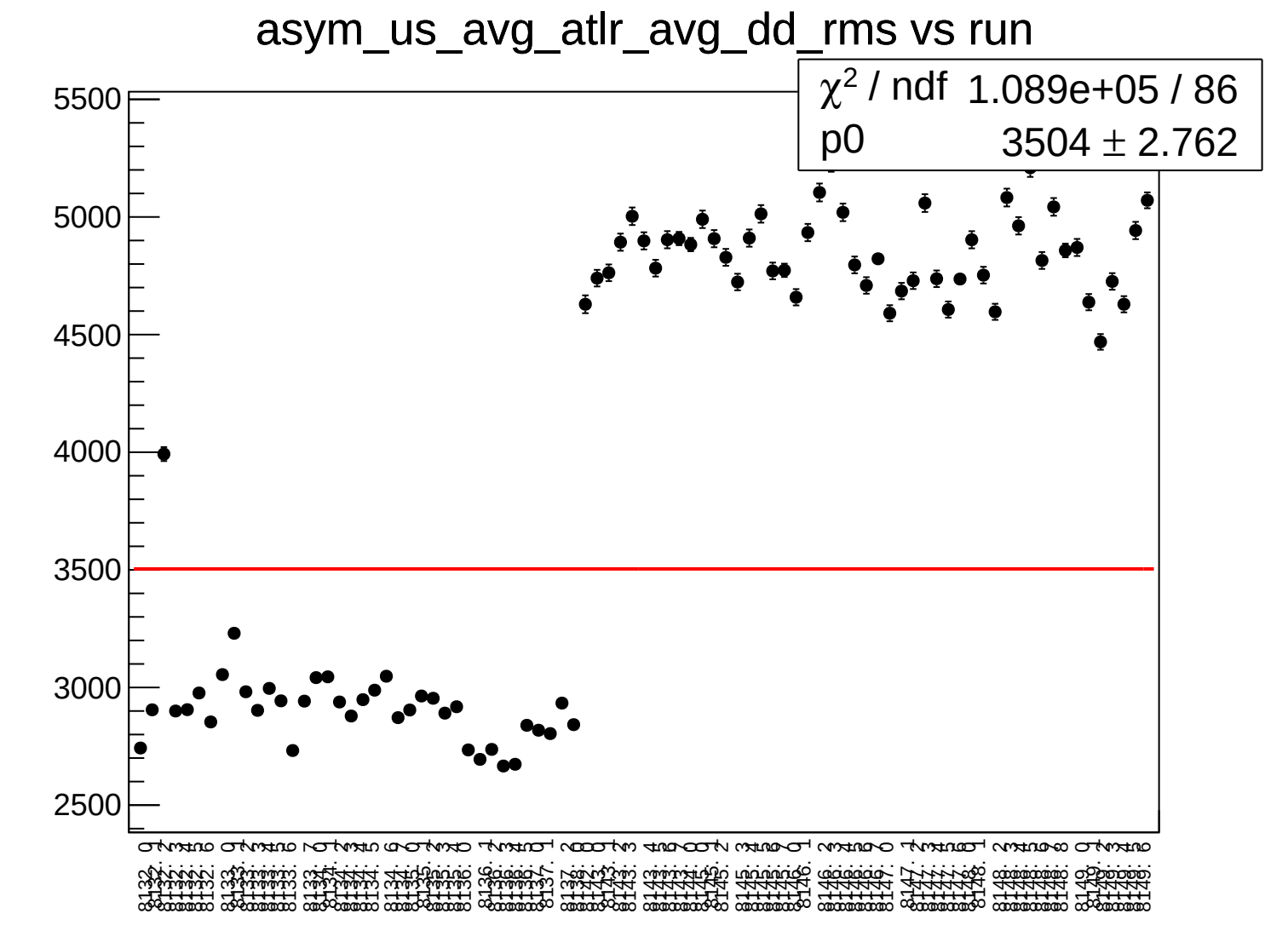

asym_us_avg_atlr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 92.26 / 86
p0 −2446 ± 3684
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean 142.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

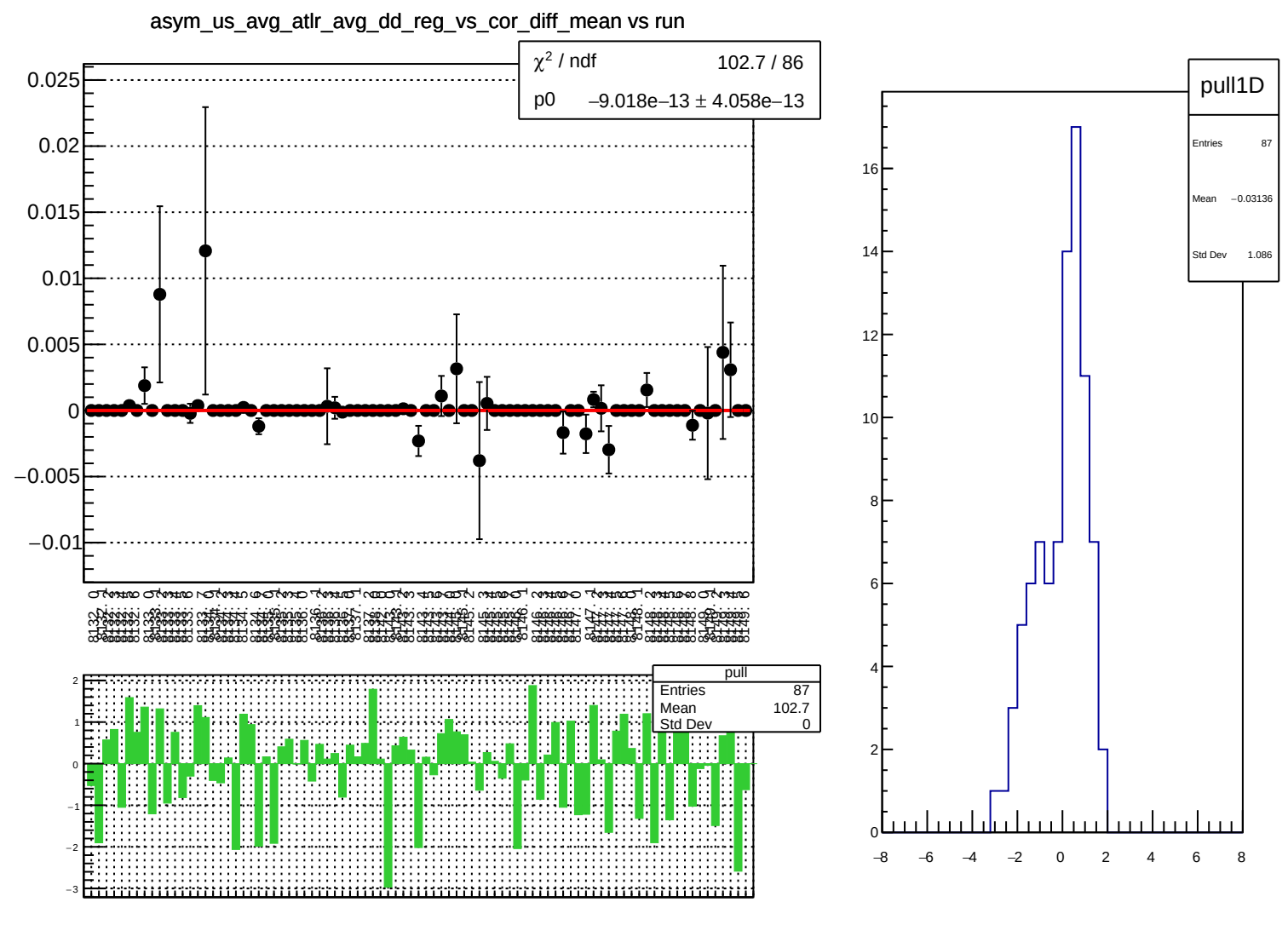

pull1D
Entries 87
Mean 0.02431
Std Dev 1.03
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

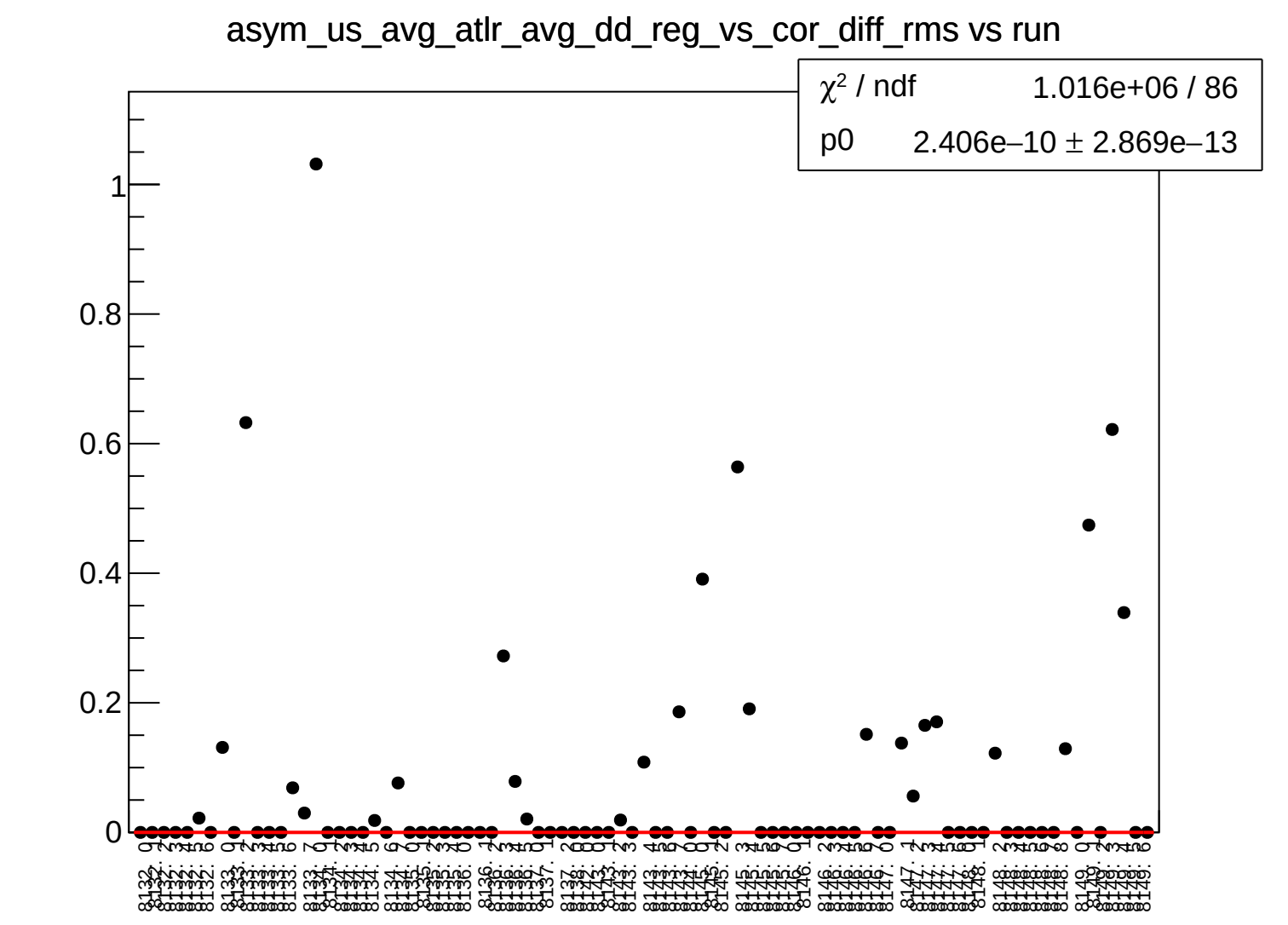

asym_us_avg_atlr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.32e+05 / 86
p0 3282 ± 2.605
5000
4500
4000
3500
3000
2500

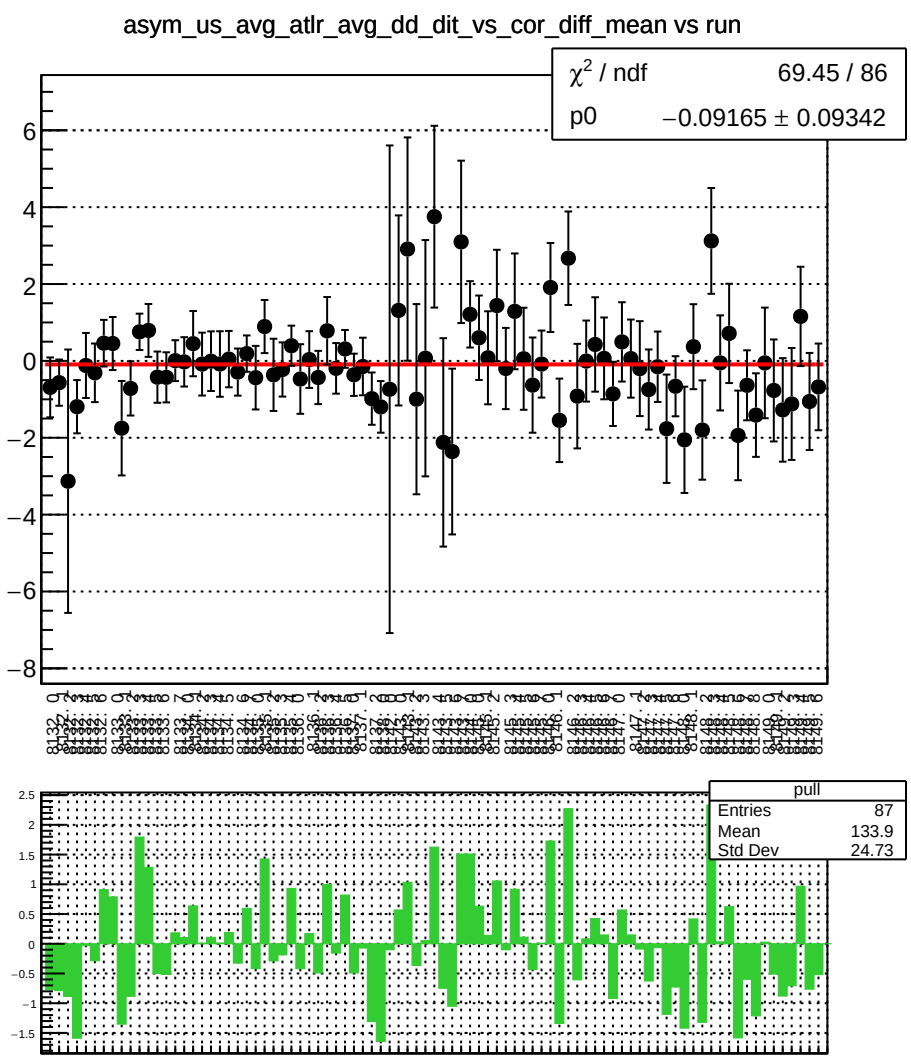

asym_us_avg_atlr_avg_dd_mean vs run
×10^3
χ^2 / ndf 94.51 / 86
p0 1720 ± 3905
150
100
50
0
−50
−100
−150
−200
pull
Entries 87
Mean 152.8
Std Dev 0
2
1
0
−1
−2

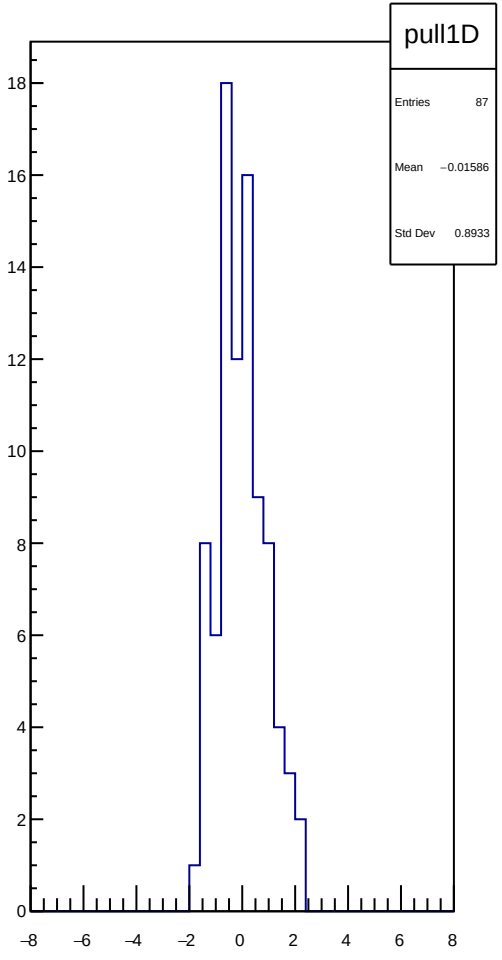

pull1D
Entries 87
Mean −0.02947
Std Dev 1.042
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

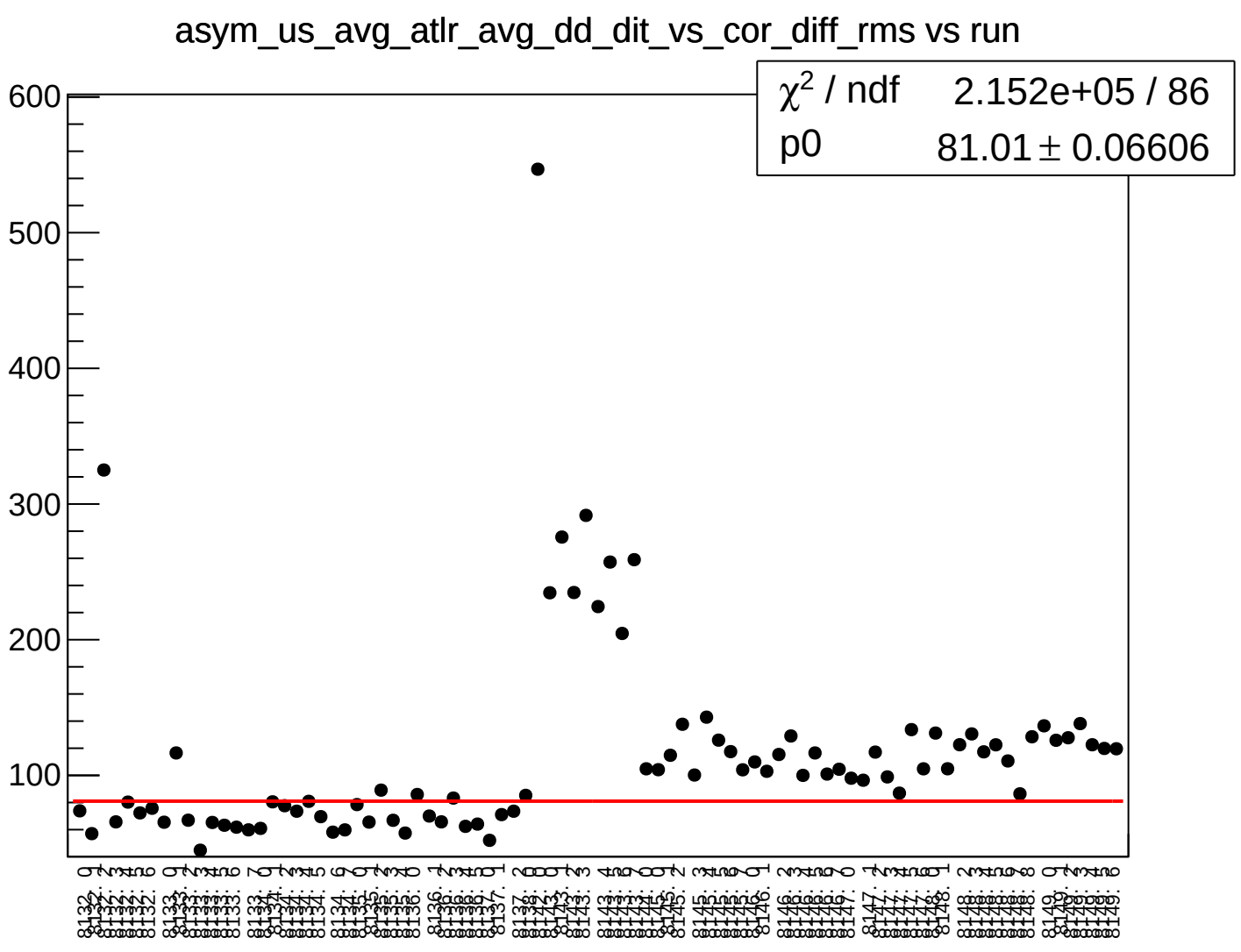

asym_us_avg_atlr_avg_dd_rms vs run
χ^2 / ndf 1.089e+05 / 86
p0 3504 ± 2.762
5500
5000
4500
4000
3500
3000
2500

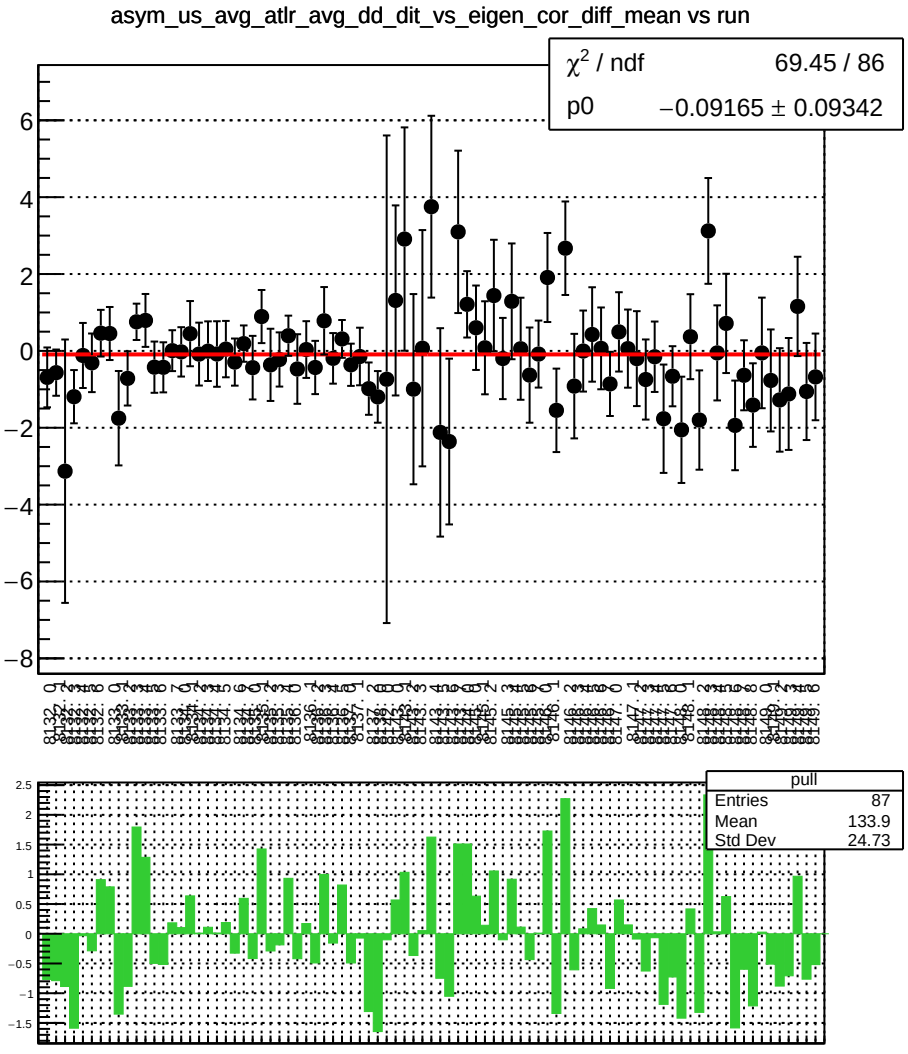

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 102.7 / 86
p0 −9.018e−13 ± 4.058e−13
pull
Entries 87
Mean 102.7
Std Dev 0
pull1D
Entries 87
Mean −0.03136
Std Dev 1.086

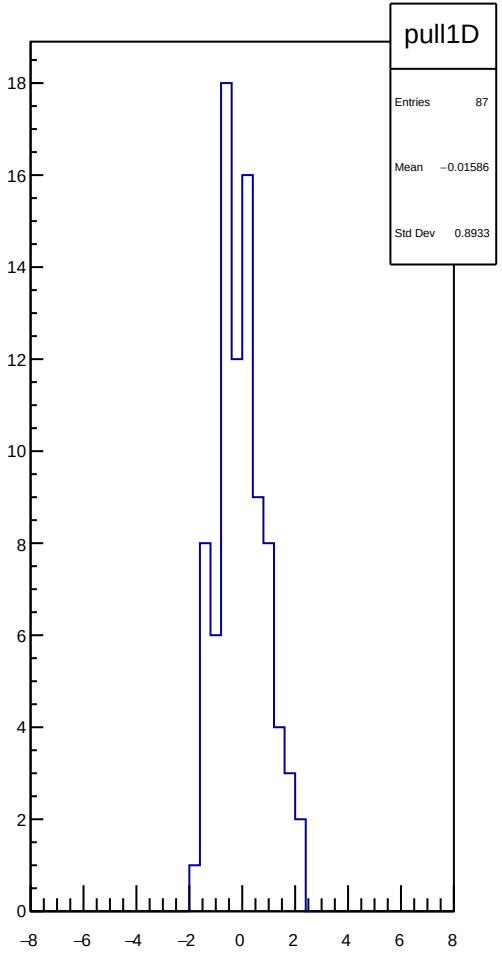

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.016e+06 / 86
p0 2.406e−10 ± 2.869e−13
1
0.8
0.6
0.4
0.2
0

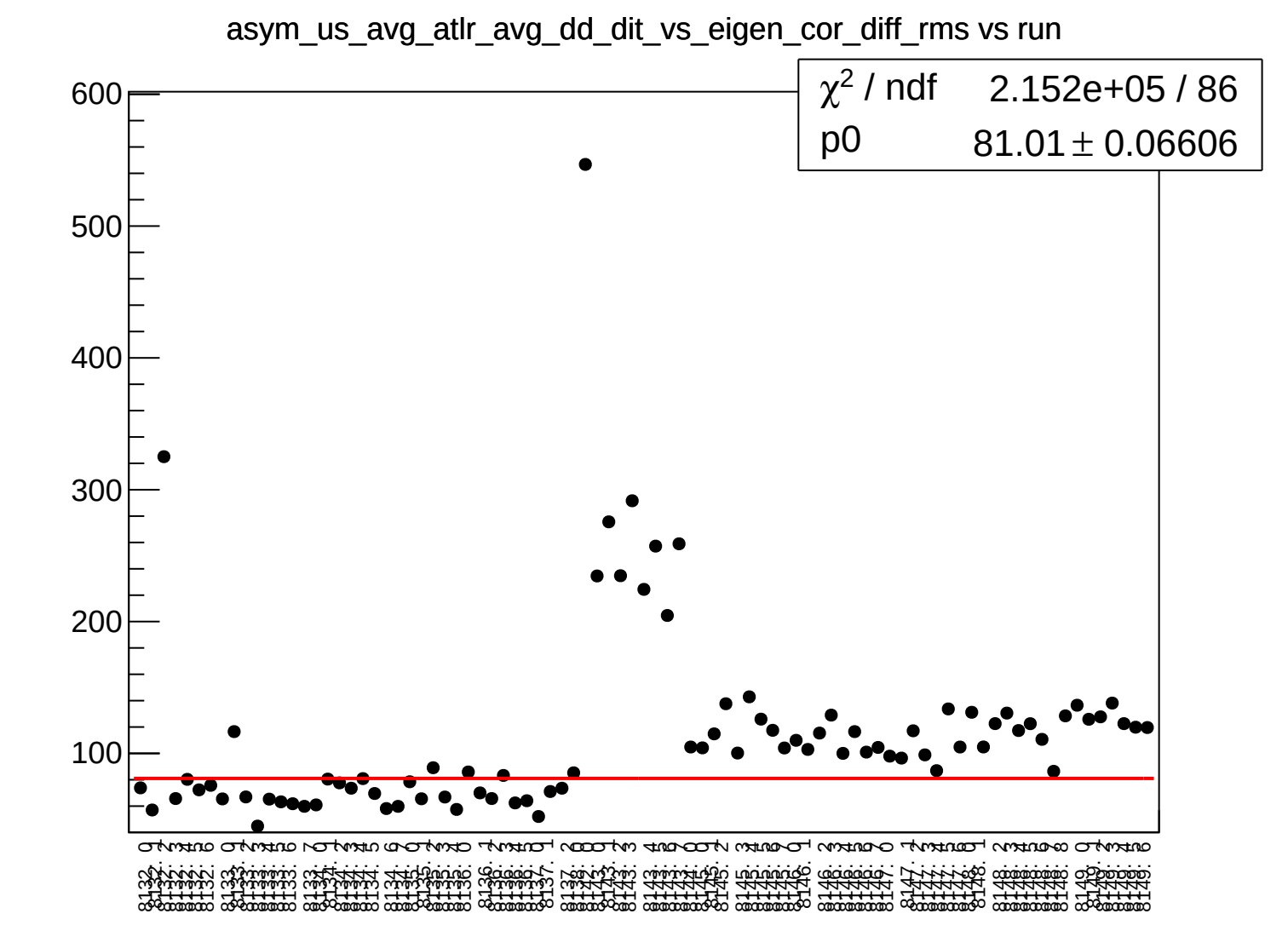

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 69.45 / 86
p0 −0.09165 ± 0.09342
pull
Entries 87
Mean 133.9
Std Dev 24.73

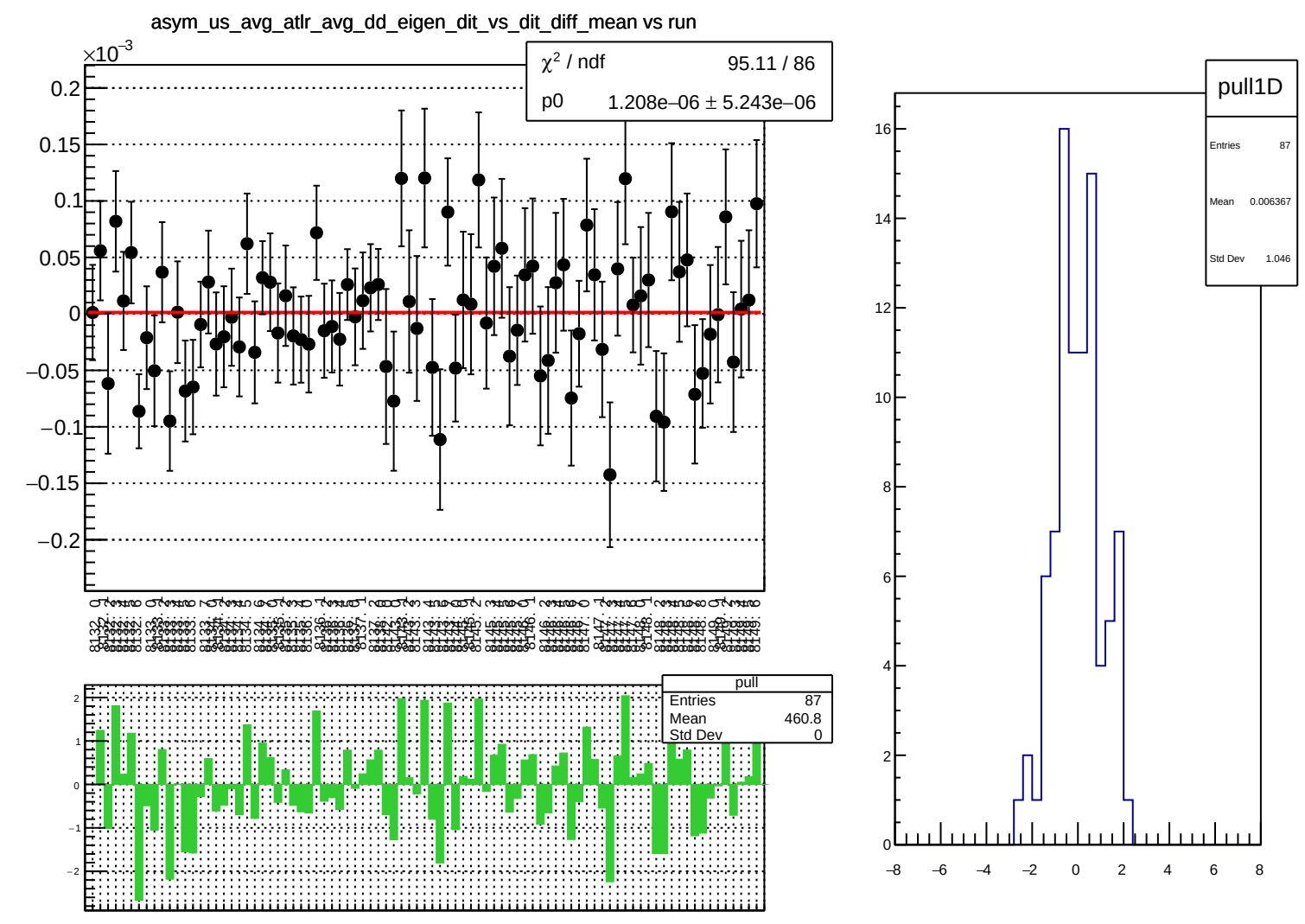

pull1D
Entries 87
Mean −0.01586
Std Dev 0.8933

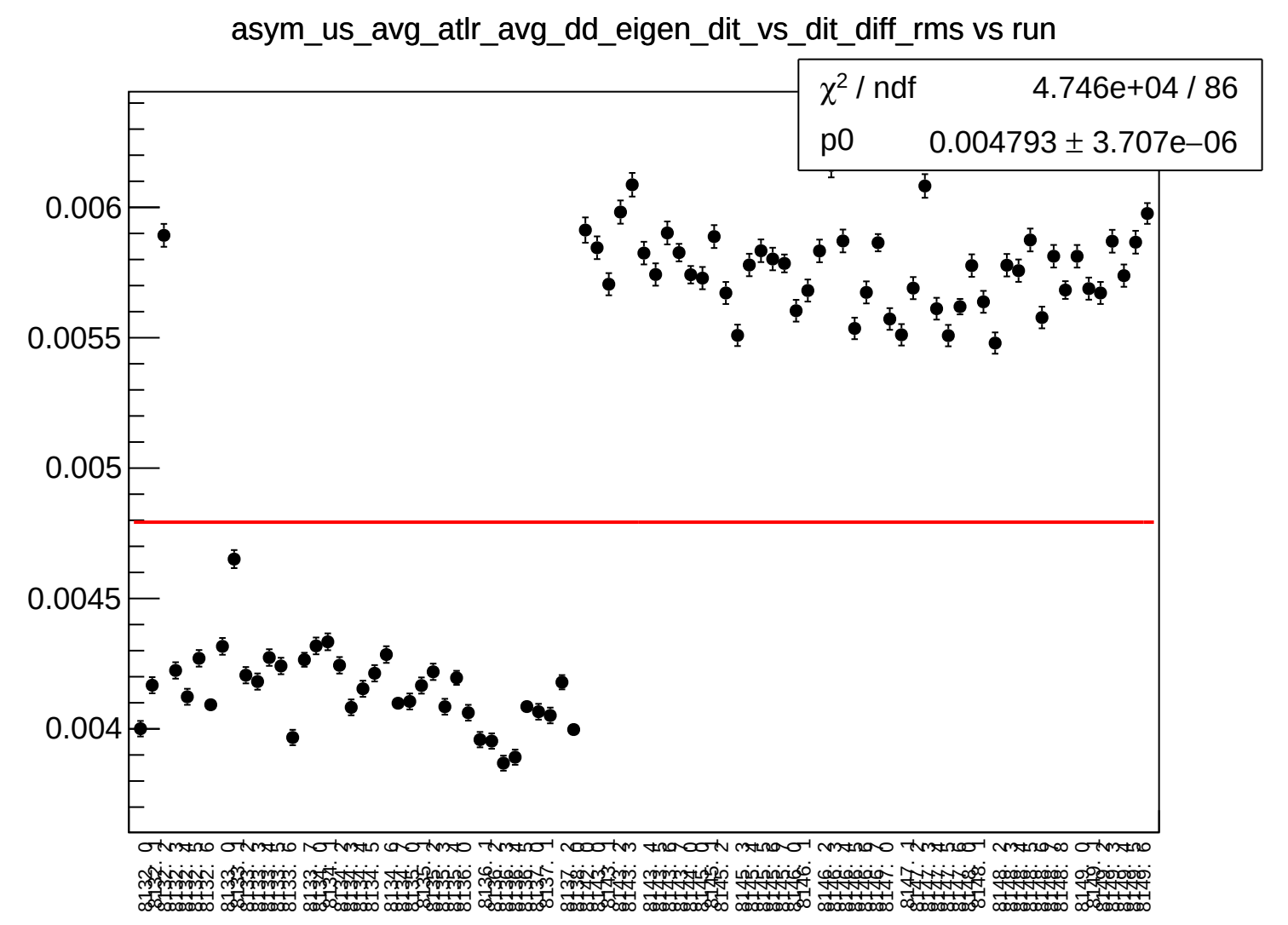

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.152e+05 / 86
p0 81.01 ± 0.06606
600
500
400
300
200
100

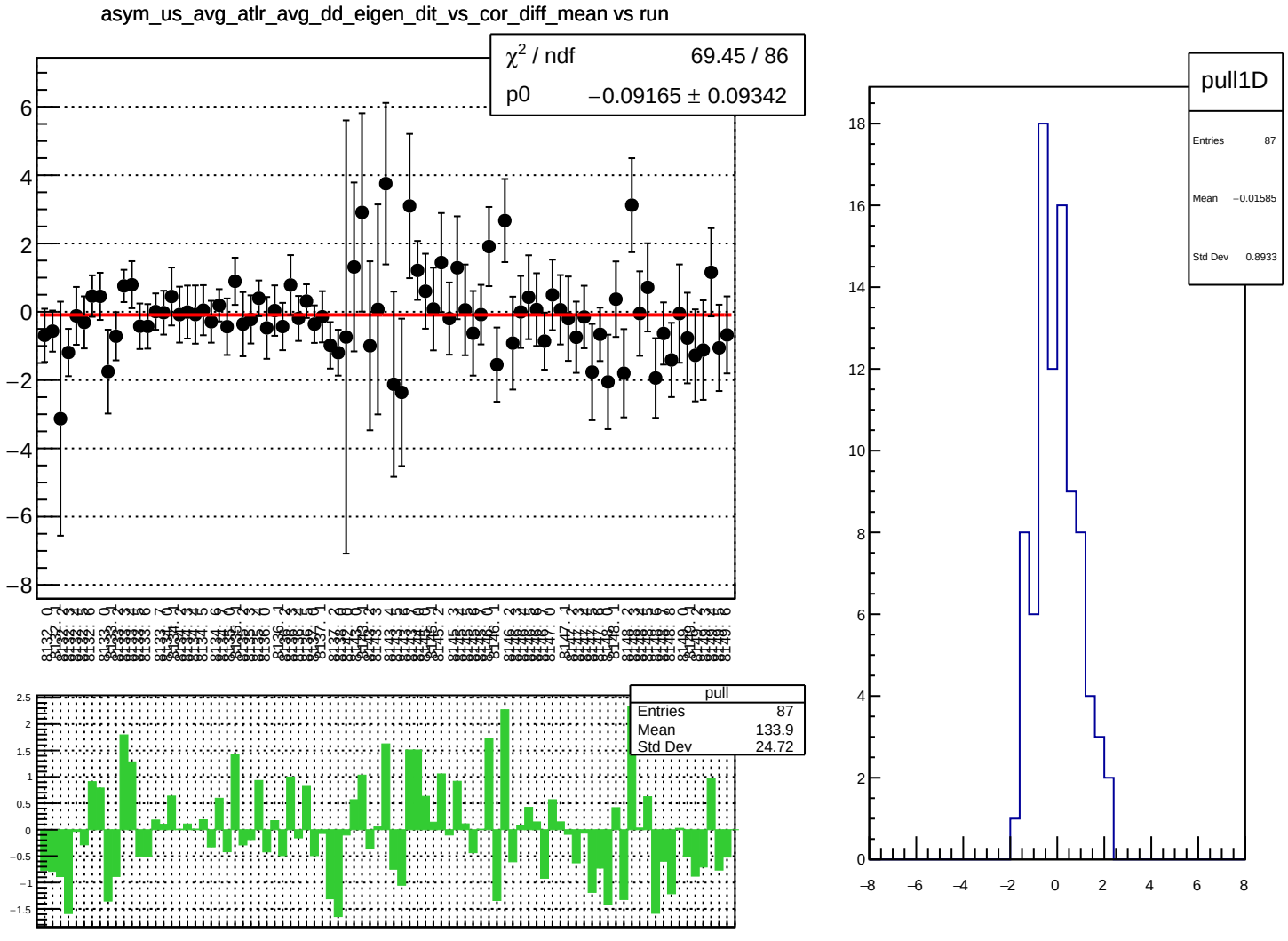

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.45 / 86
p0 −0.09165 ± 0.09342
pull
Entries 87
Mean 133.9
Std Dev 24.73

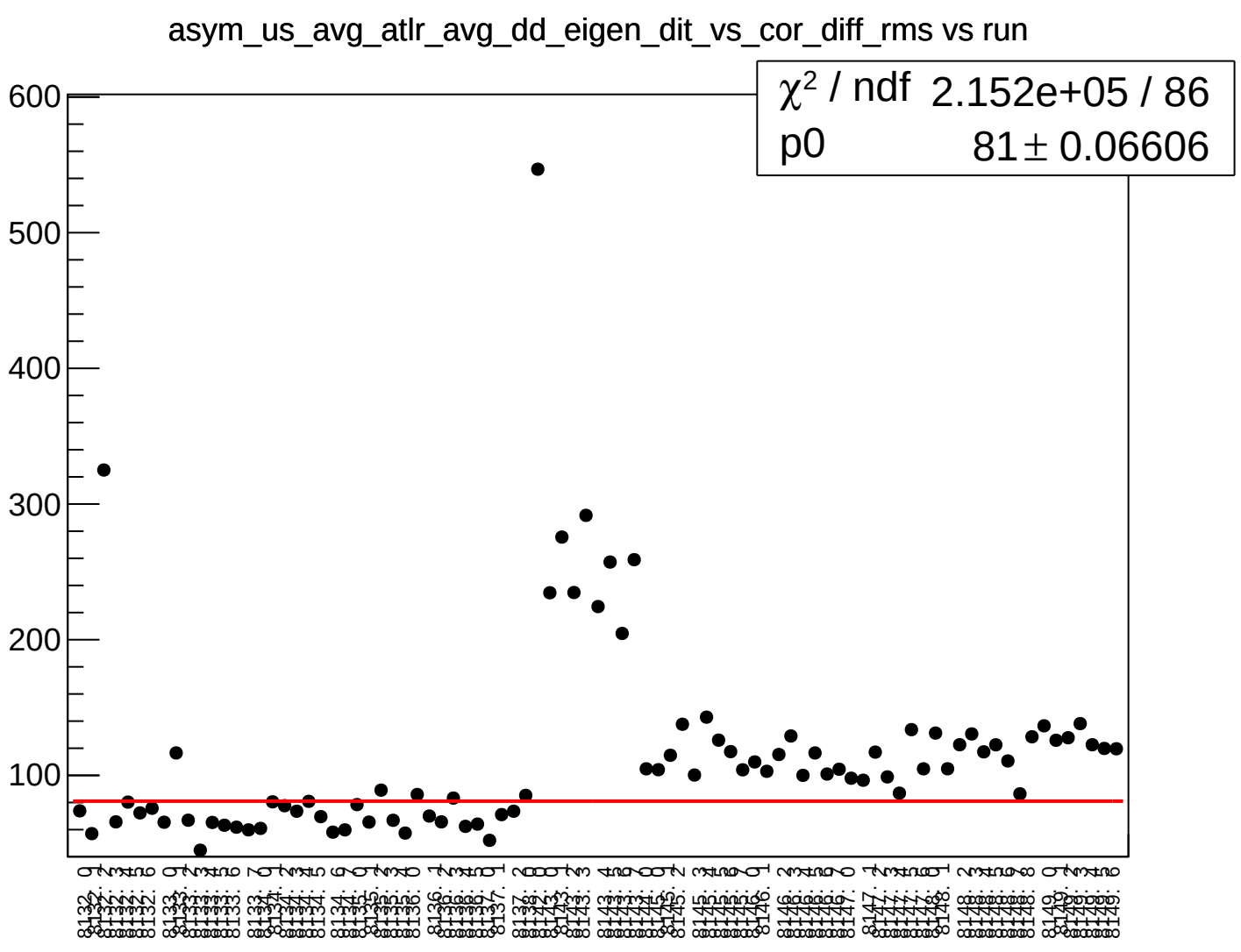

pull1D
Entries 87
Mean −0.01586
Std Dev 0.8933

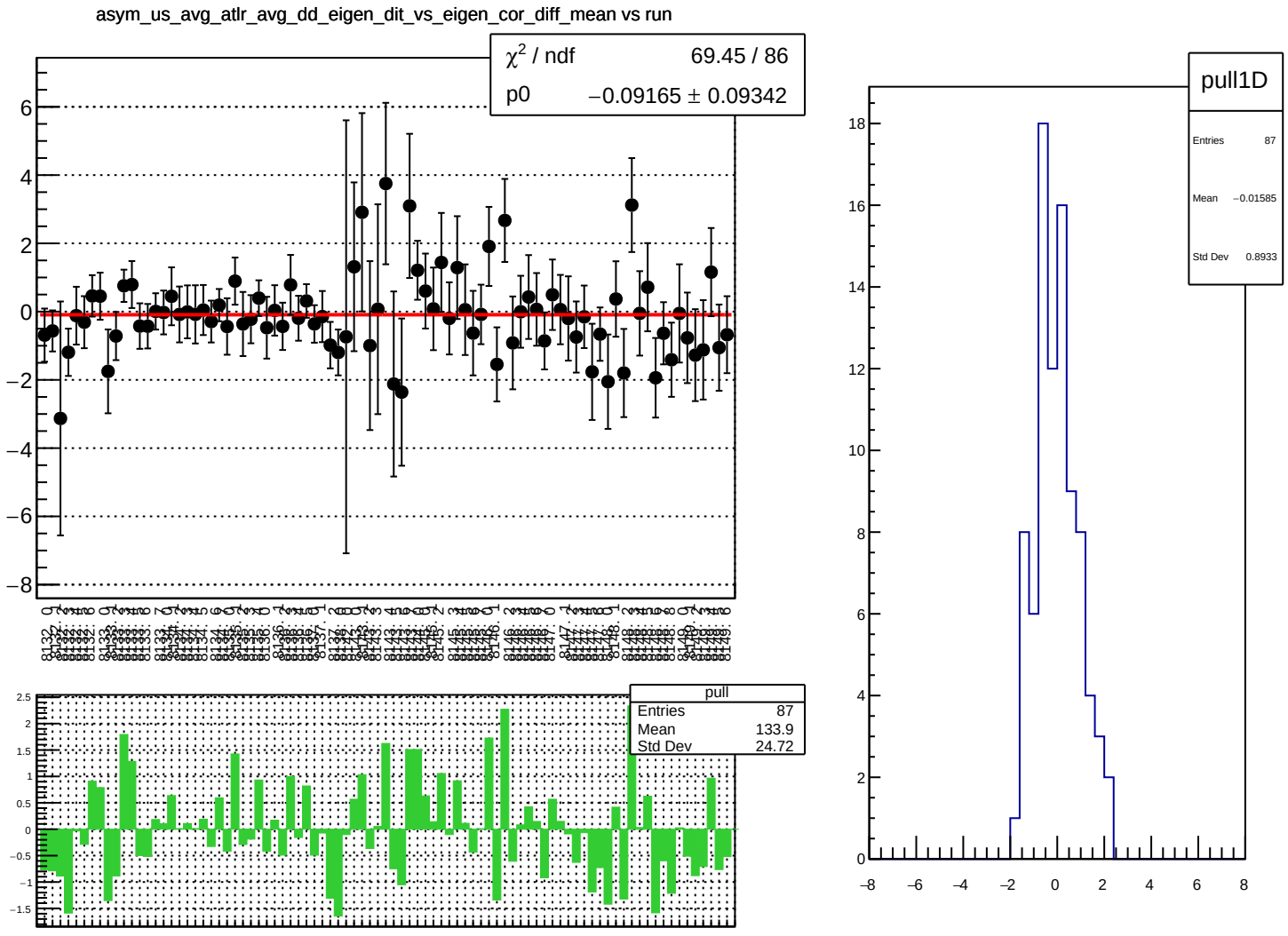

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.152e+05 / 86
p0 81.01 ± 0.06606
600
500
400
300
200
100

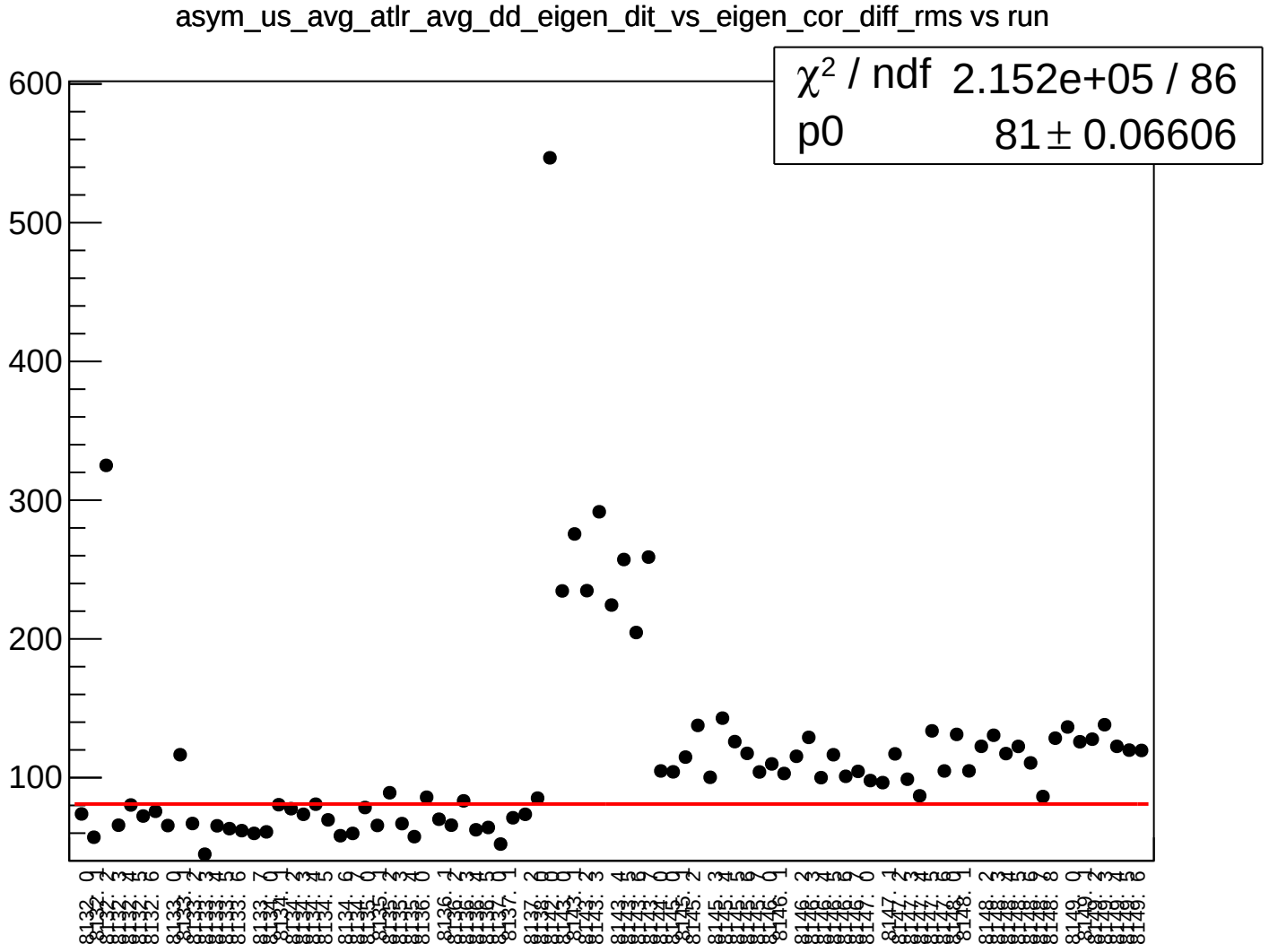

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.11 / 86
p0 1.208e−06 ± 5.243e−06
pull
Entries 87
Mean 460.8
Std Dev 0
pull1D
Entries 87
Mean 0.006367
Std Dev 1.046

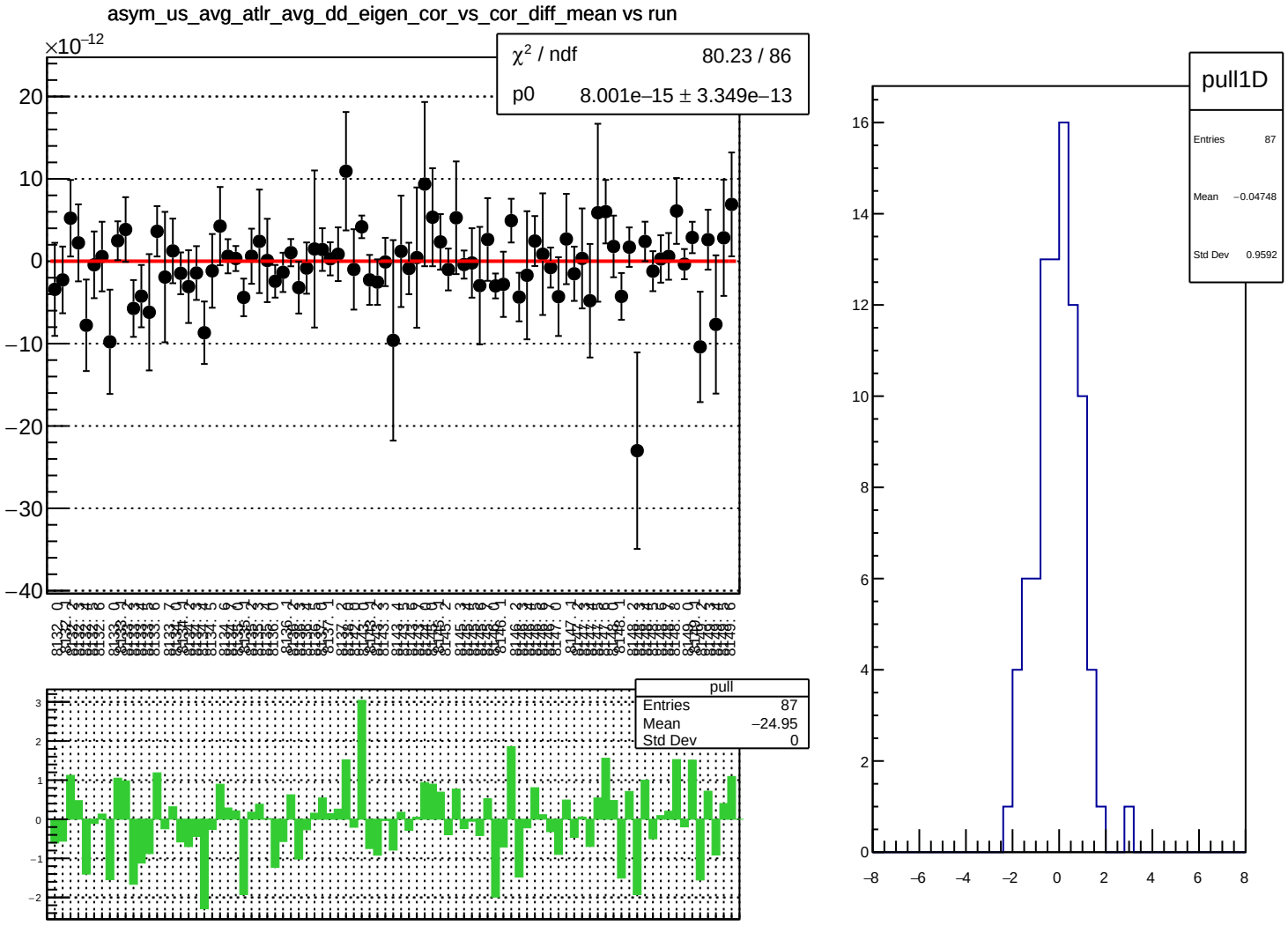

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.746e+04 / 86
p0 0.004793 ± 3.707e−06
0.006
0.0055
0.005
0.0045
0.004

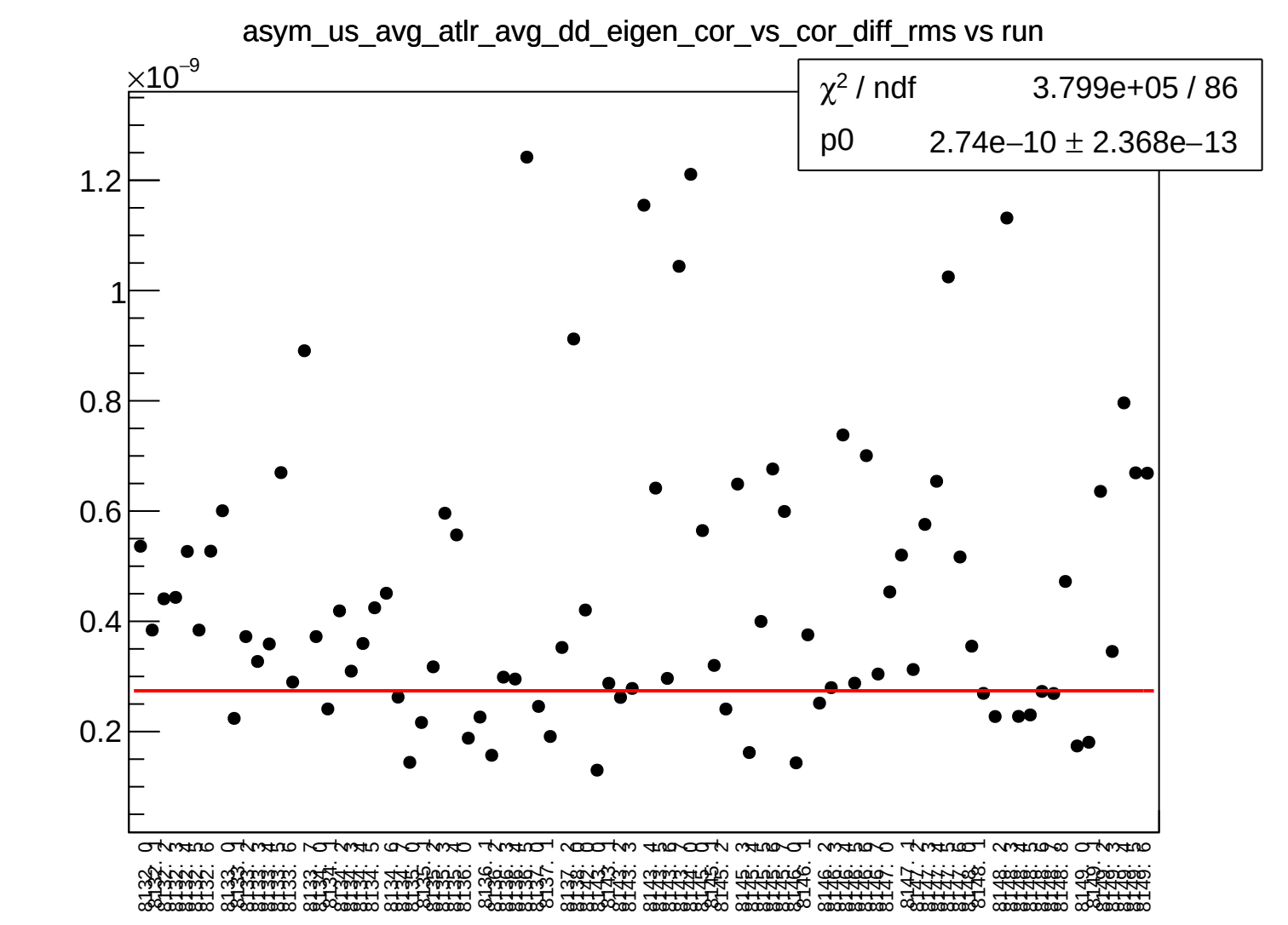

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 69.45 / 86
p0 −0.09165 ± 0.09342
pull
Entries 87
Mean 133.9
Std Dev 24.72
pull1D
Entries 87
Mean −0.01585
Std Dev 0.8933

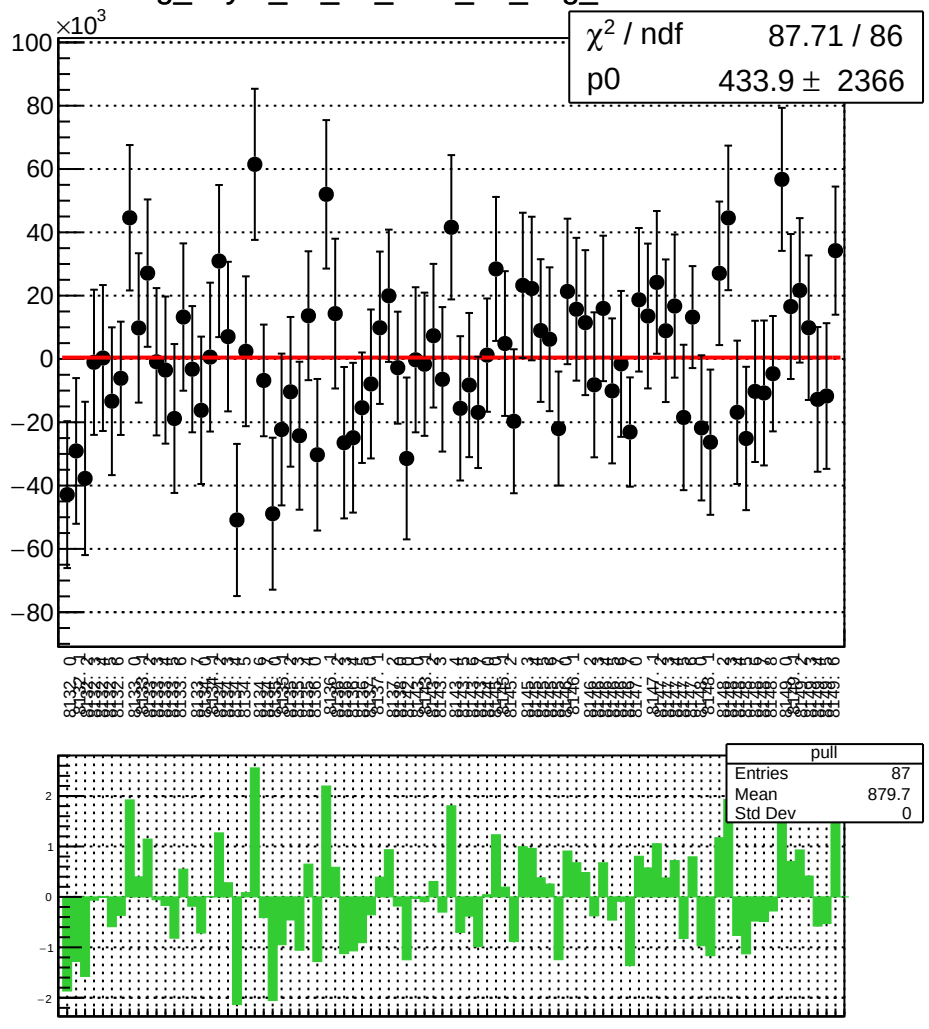

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.152e+05 / 86
p0 81 ± 0.06606
600
500
400
300
200
100

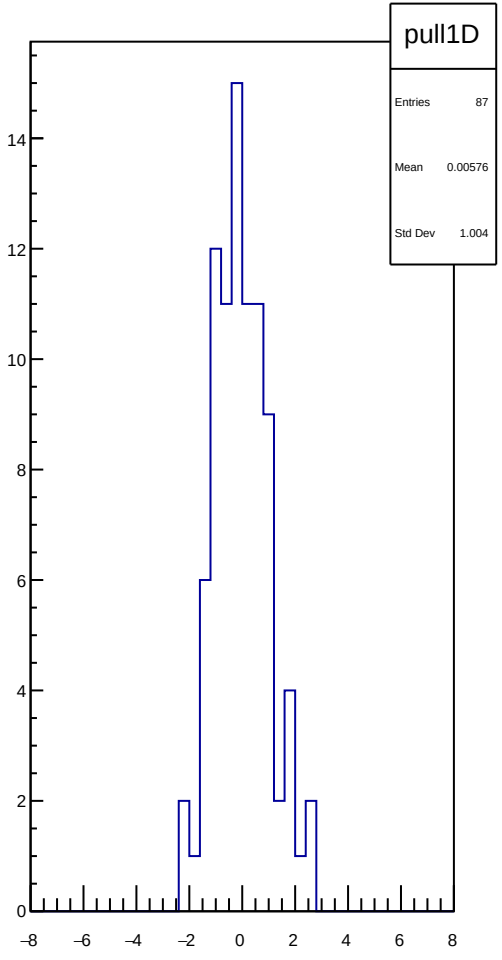

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.45 / 86
p0 −0.09165 ± 0.09342
pull
Entries 87
Mean 133.9
Std Dev 24.72
pull1D
Entries 87
Mean −0.01585
Std Dev 0.8933

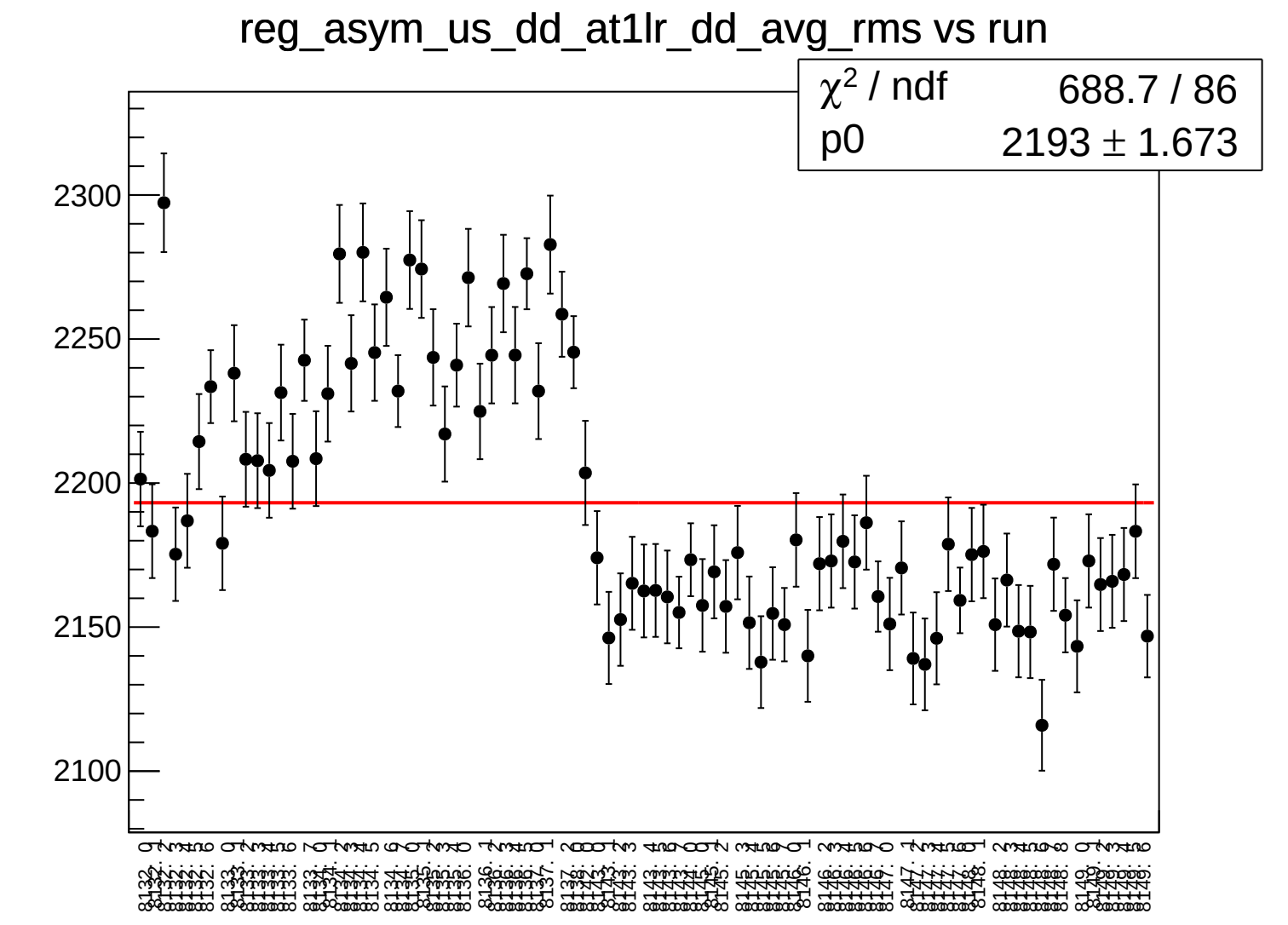

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.152e+05 / 86
p0 81 ± 0.06606
600
500
400
300
200
100

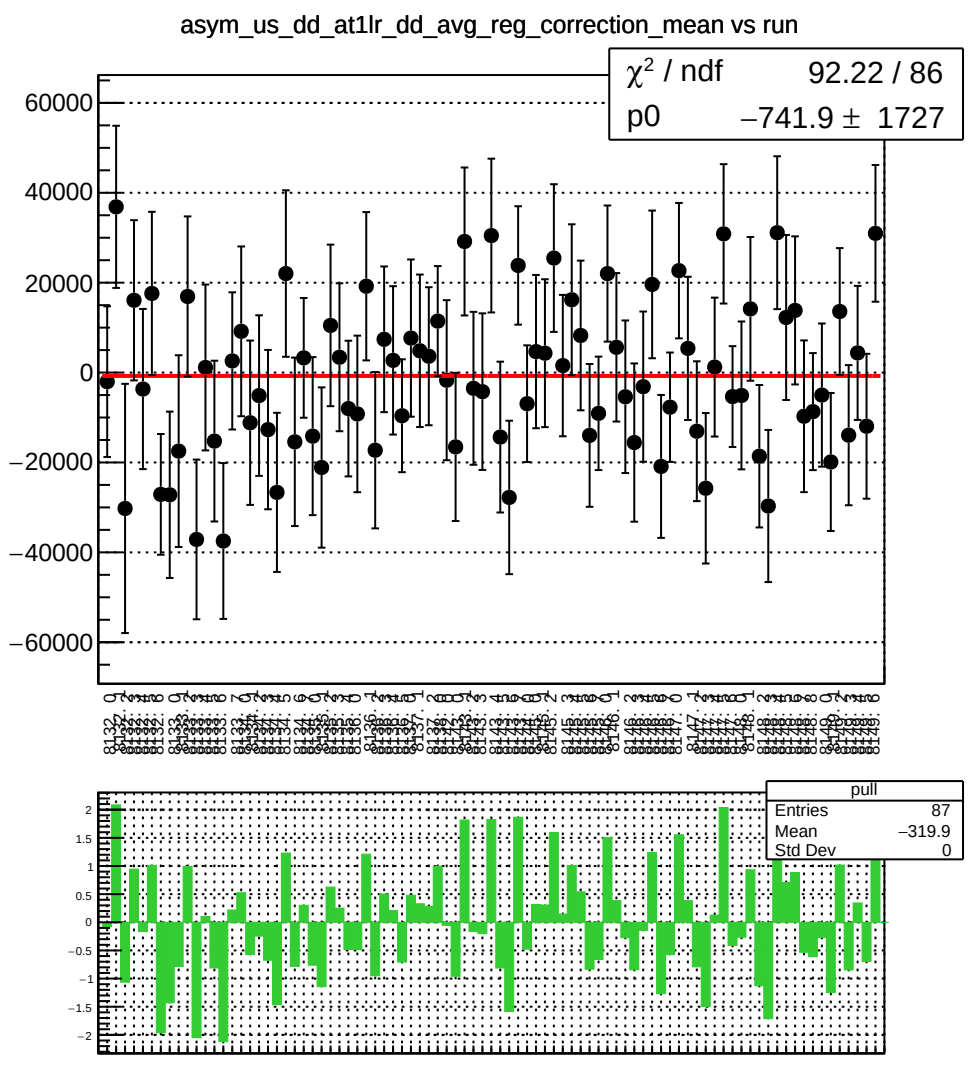

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.23 / 86
p0 8.001e−15 ± 3.349e−13
pull
Entries 87
Mean −24.95
Std Dev 0
pull1D
Entries 87
Mean −0.04748
Std Dev 0.9592

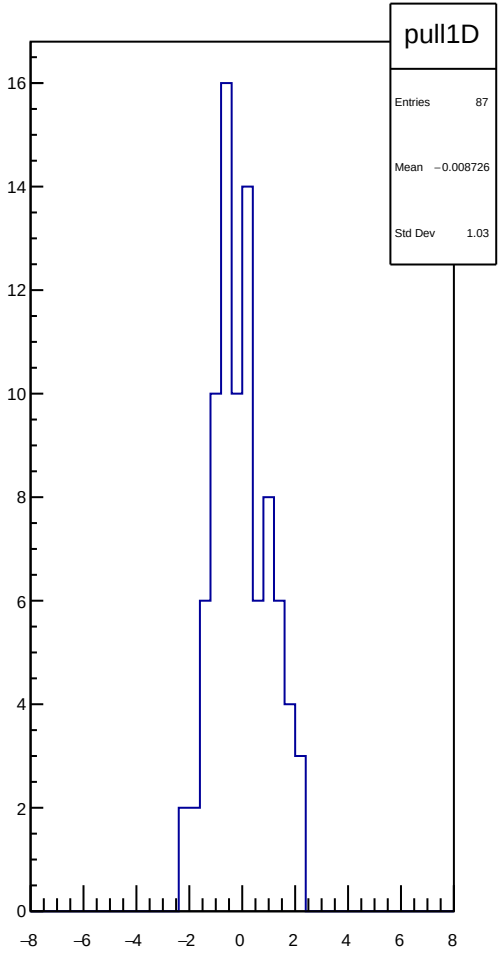

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.799e+05 / 86
p0 2.74e−10 ± 2.368e−13
1.2
1
0.8
0.6
0.4
0.2

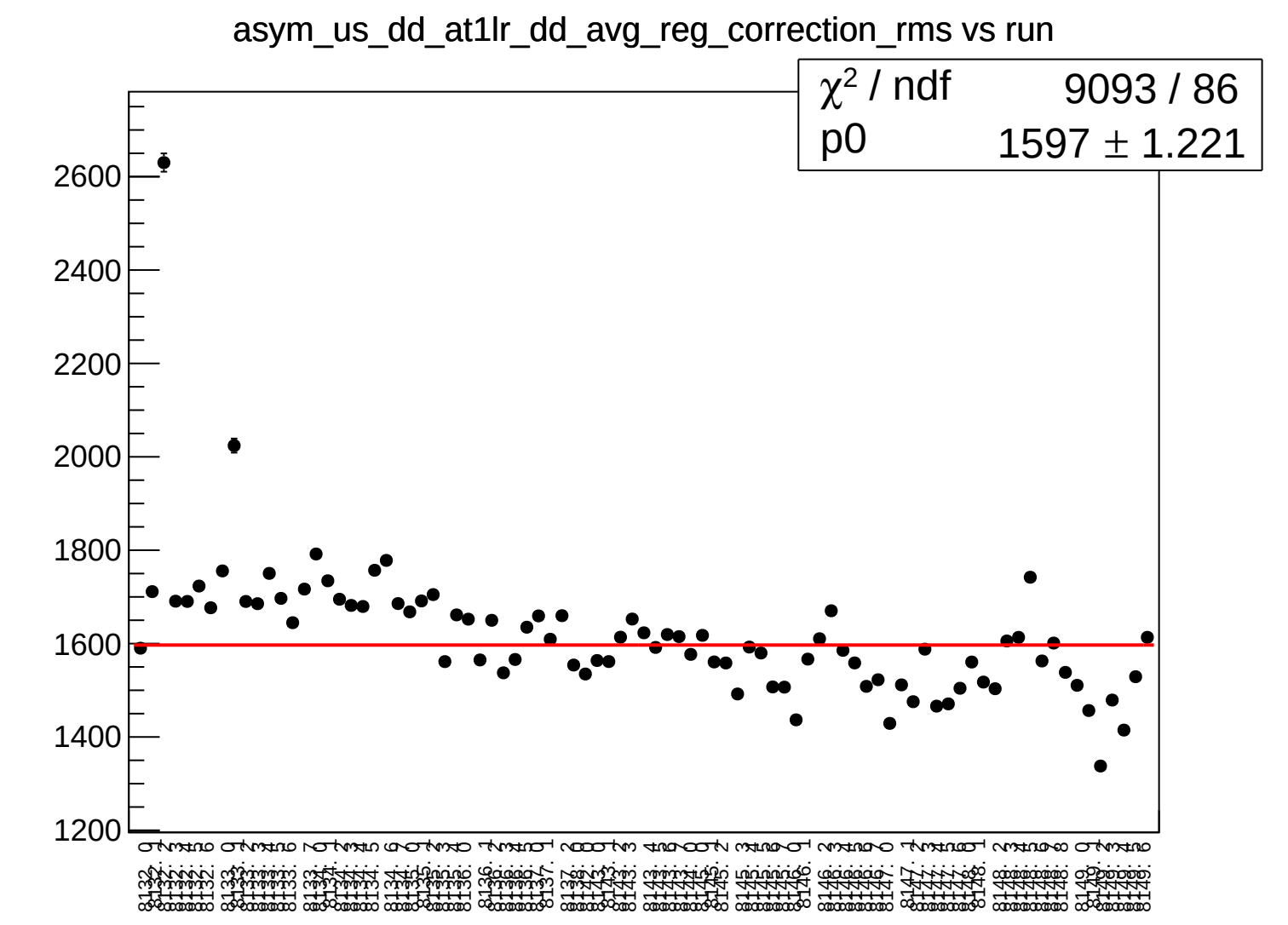

reg_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 87.71 / 86
p0 433.9 ± 2366
pull
Entries 87
Mean 879.7
Std Dev 0

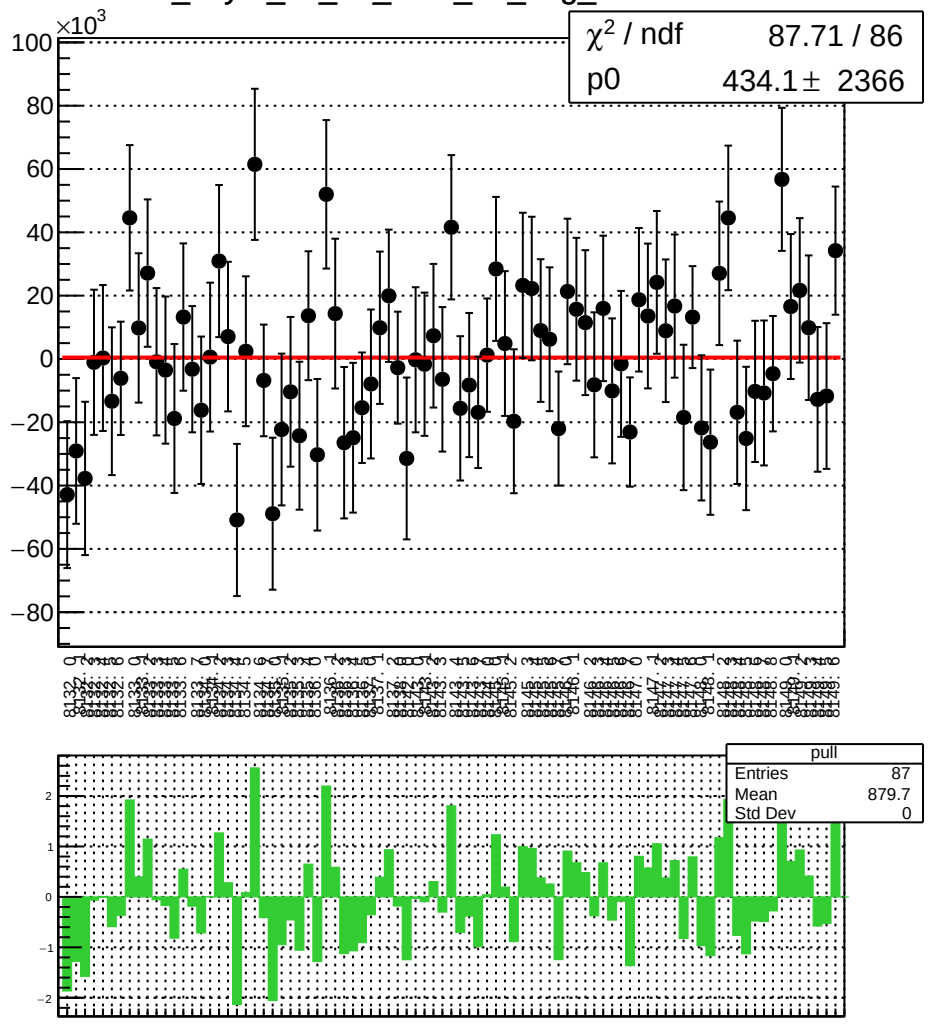

pull1D
Entries 87
Mean 0.00576
Std Dev 1.004

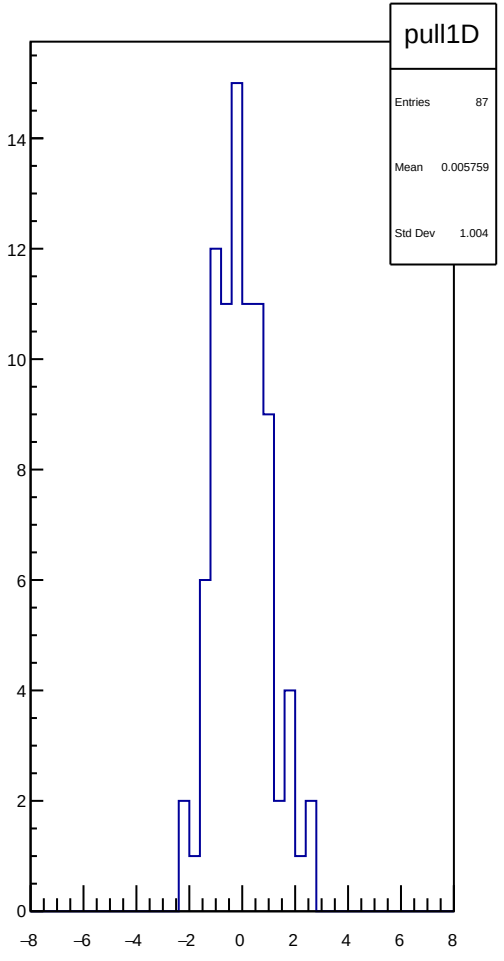

reg_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 688.7 / 86
p0 2193 ± 1.673
2300
2250
2200
2150
2100

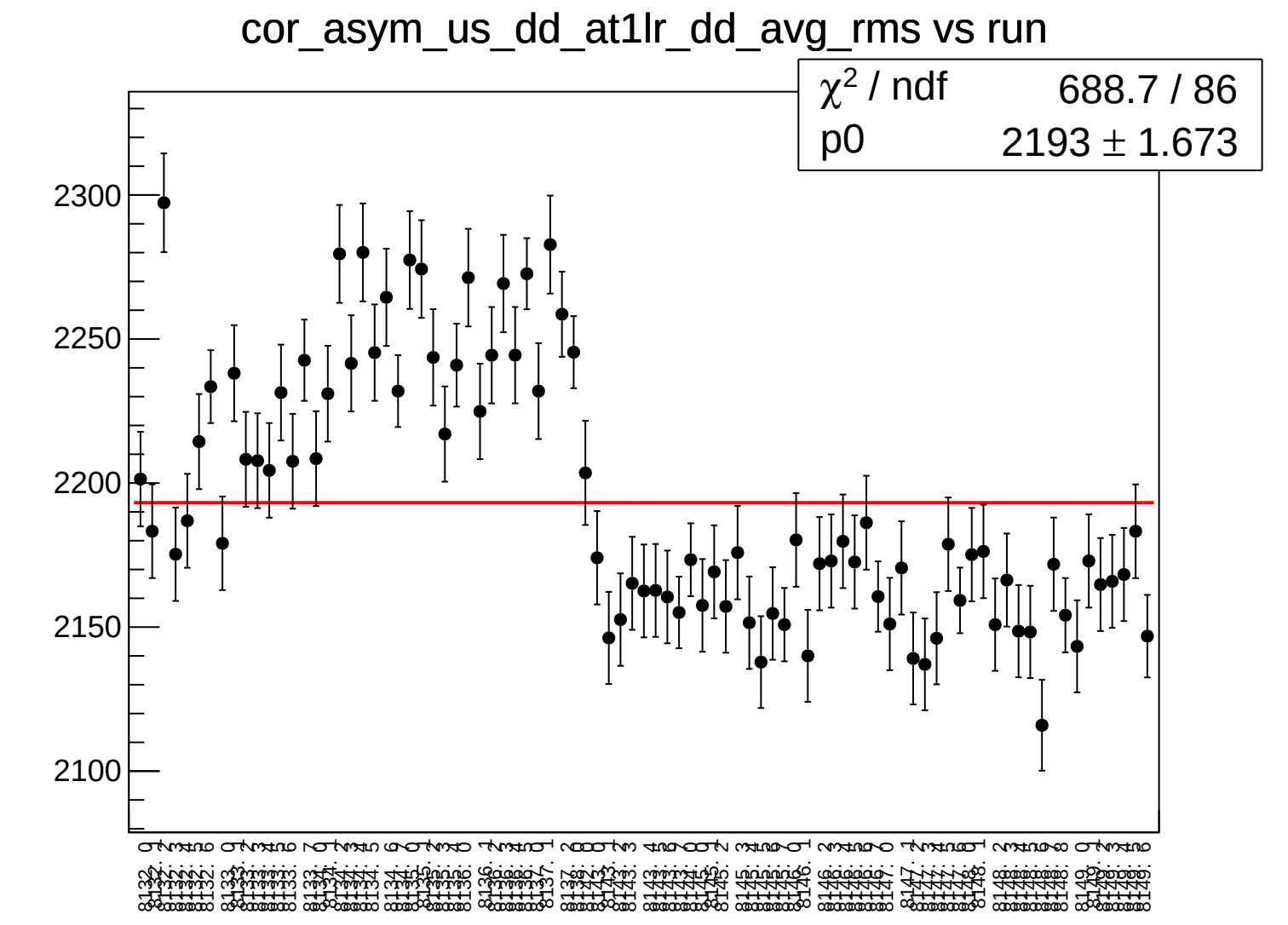

asym_us_dd_at1lr_dd_avg_reg_correction_mean vs run
χ² / ndf 92.22 / 86
p0 −741.9 ± 1727
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −319.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

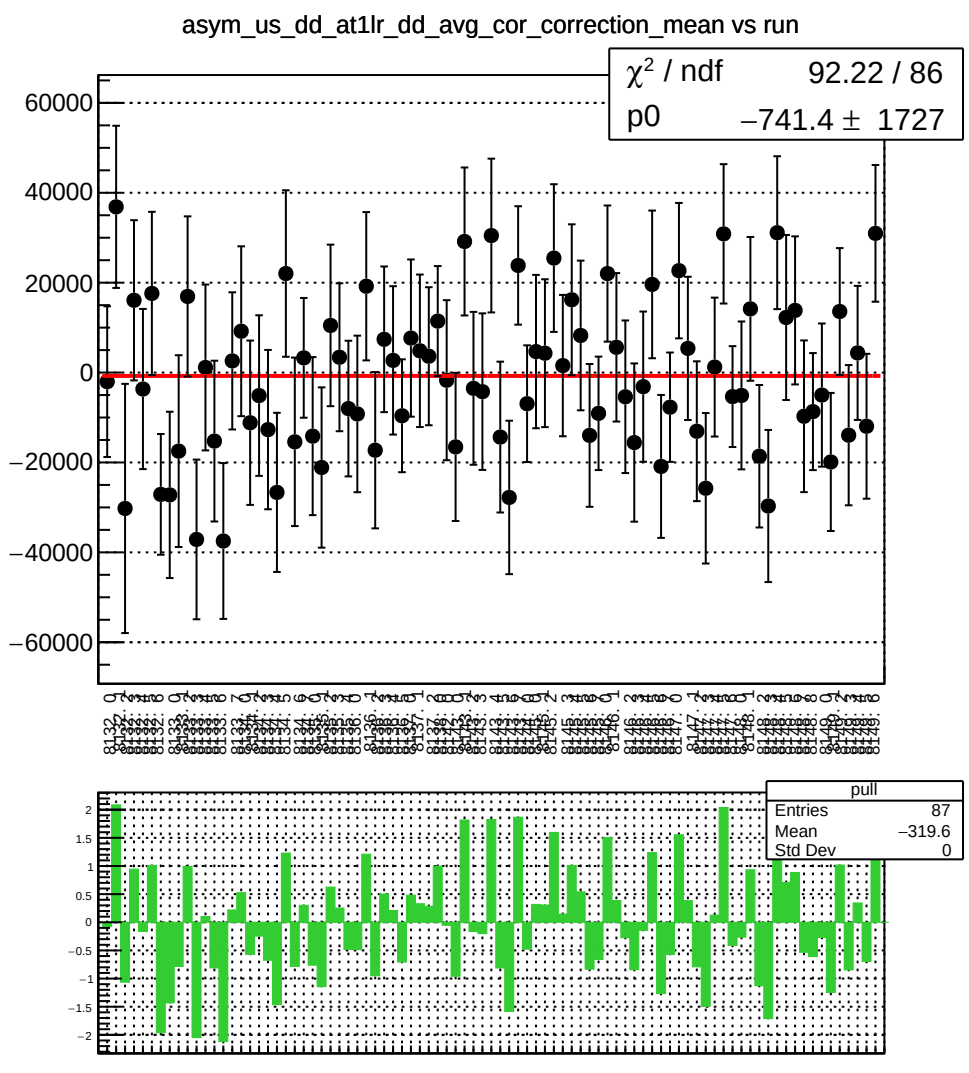

pull1D
Entries 87
Mean −0.008726
Std Dev 1.03
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

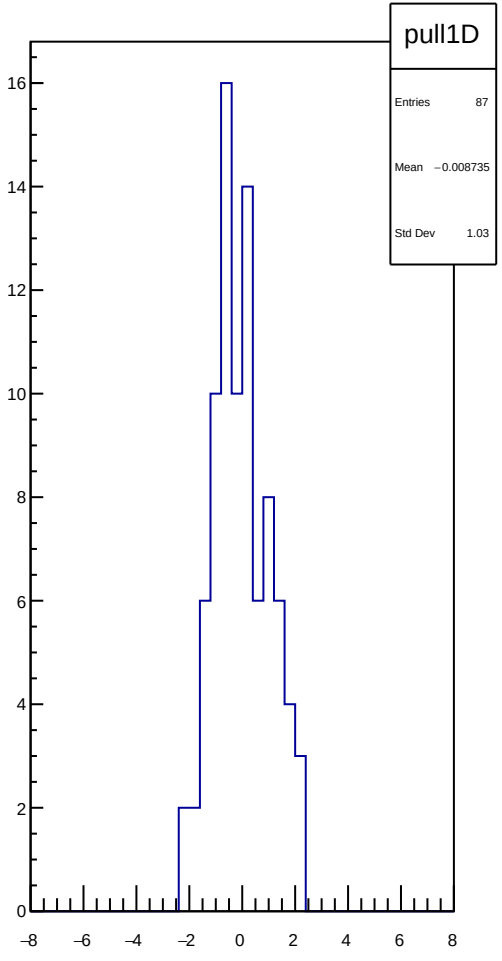

asym_us_dd_at1lr_dd_avg_reg_correction_rms vs run
χ² / ndf 9093 / 86
p0 1597 ± 1.221
2600
2400
2200
2000
1800
1600
1400
1200

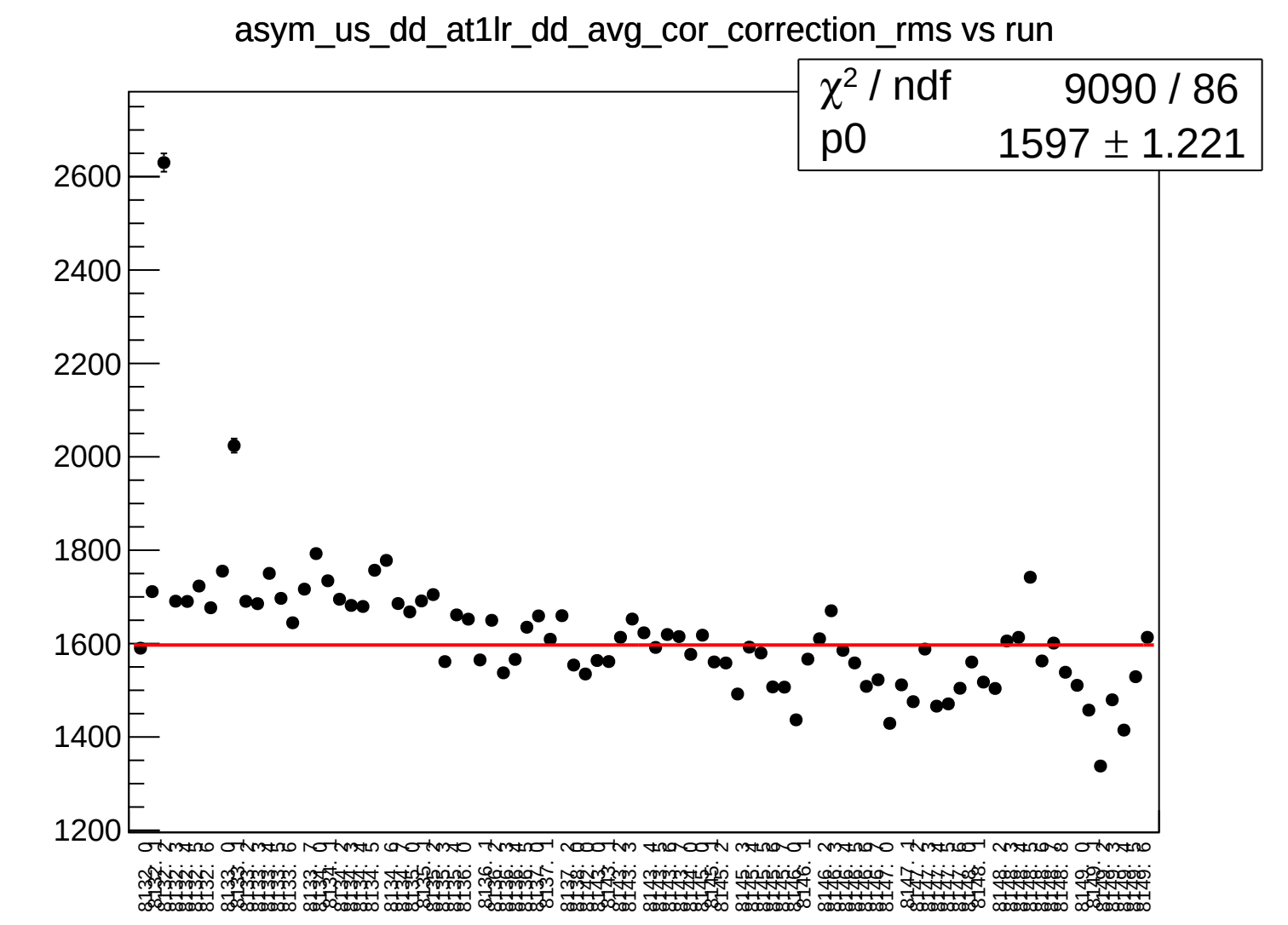

cor_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ^2 / ndf 87.71 / 86
p0 434.1 ± 2366
pull
Entries 87
Mean 879.7
Std Dev 0

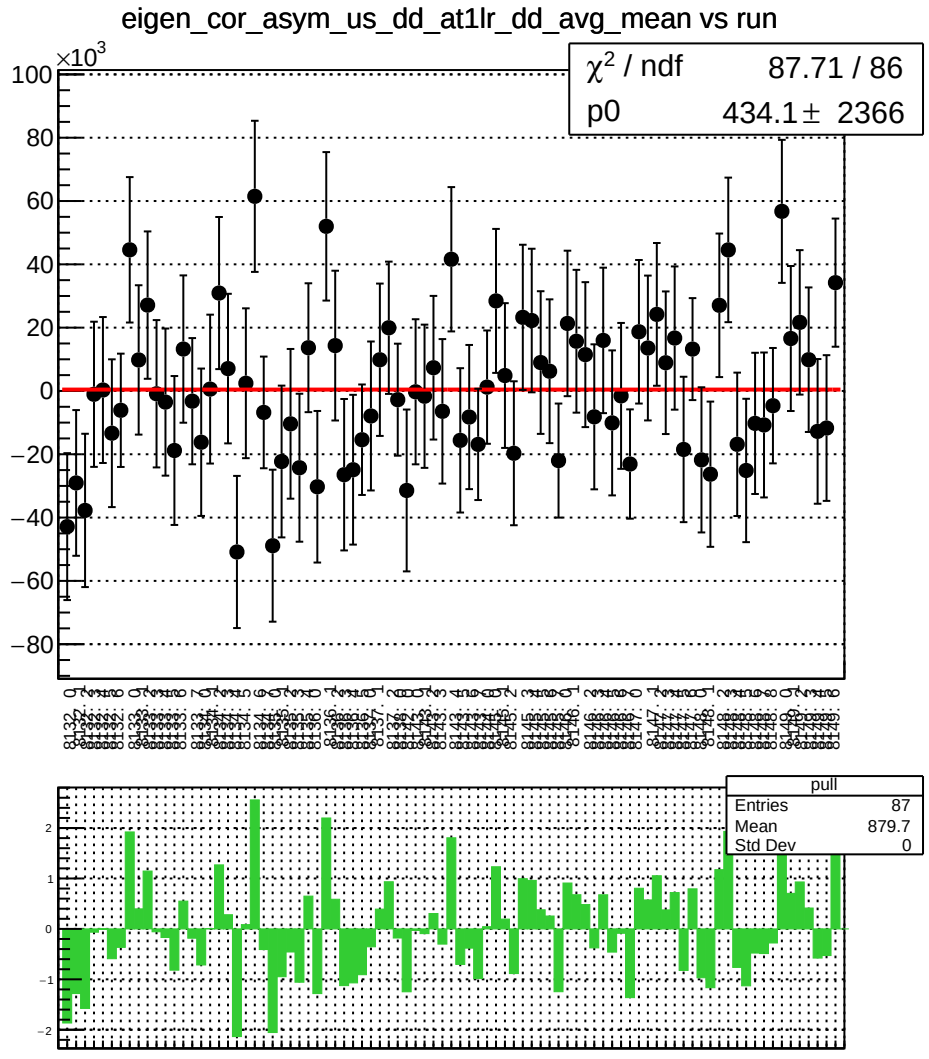

pull1D
Entries 87
Mean 0.005759
Std Dev 1.004

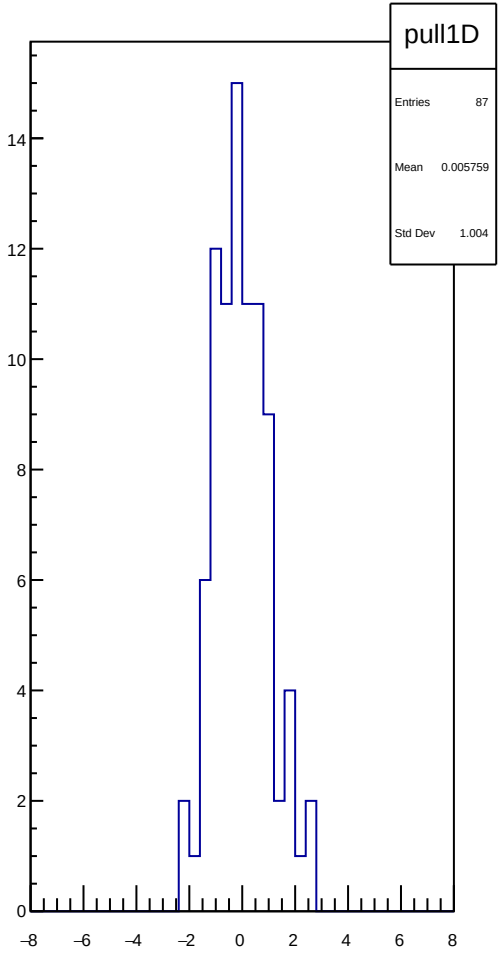

cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 688.7 / 86
p0 2193 ± 1.673
2300
2250
2200
2150
2100

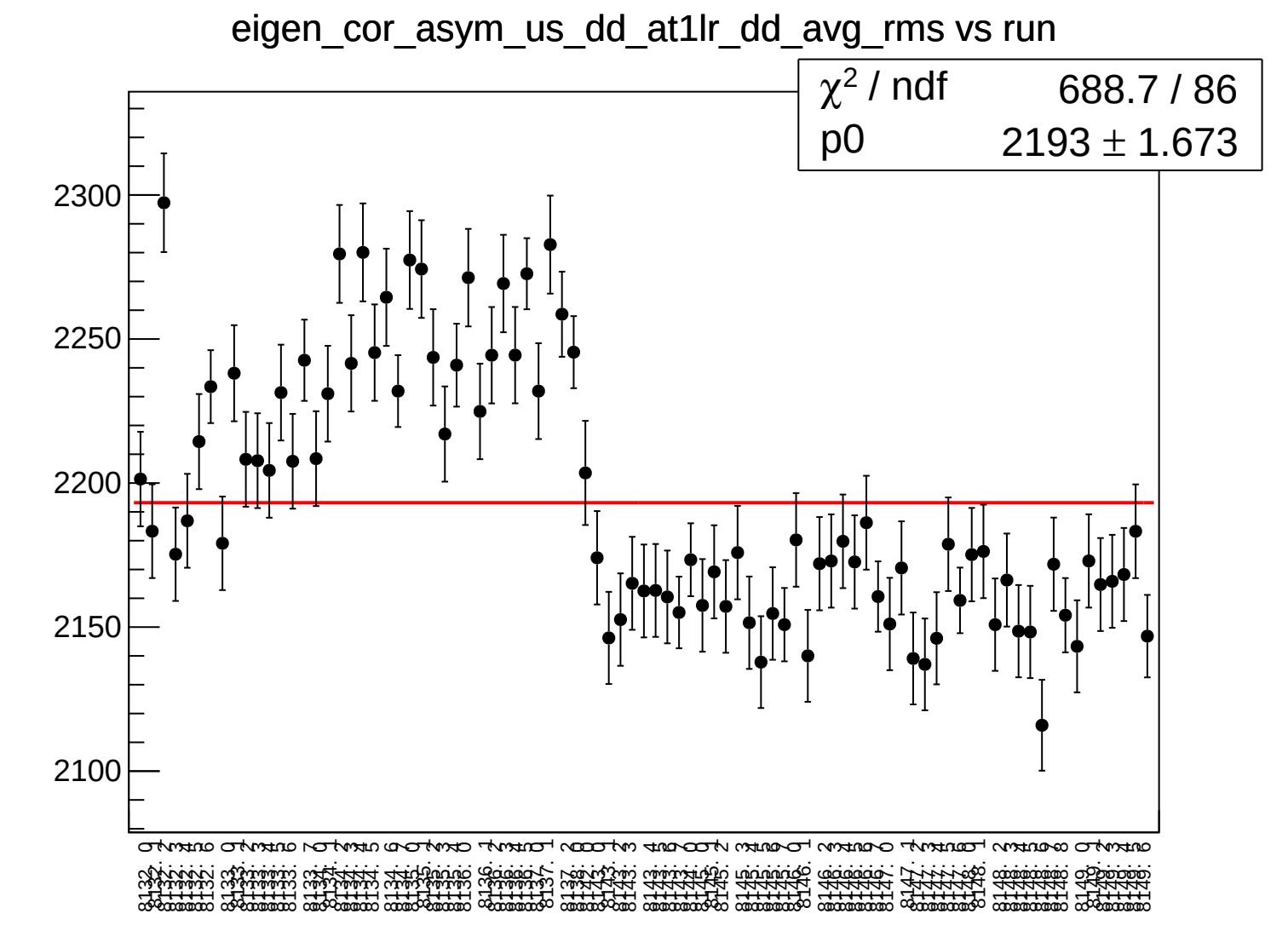

asym_us_dd_at1lr_dd_avg_cor_correction_mean vs run
χ² / ndf 92.22 / 86
p0 −741.4 ± 1727
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −319.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

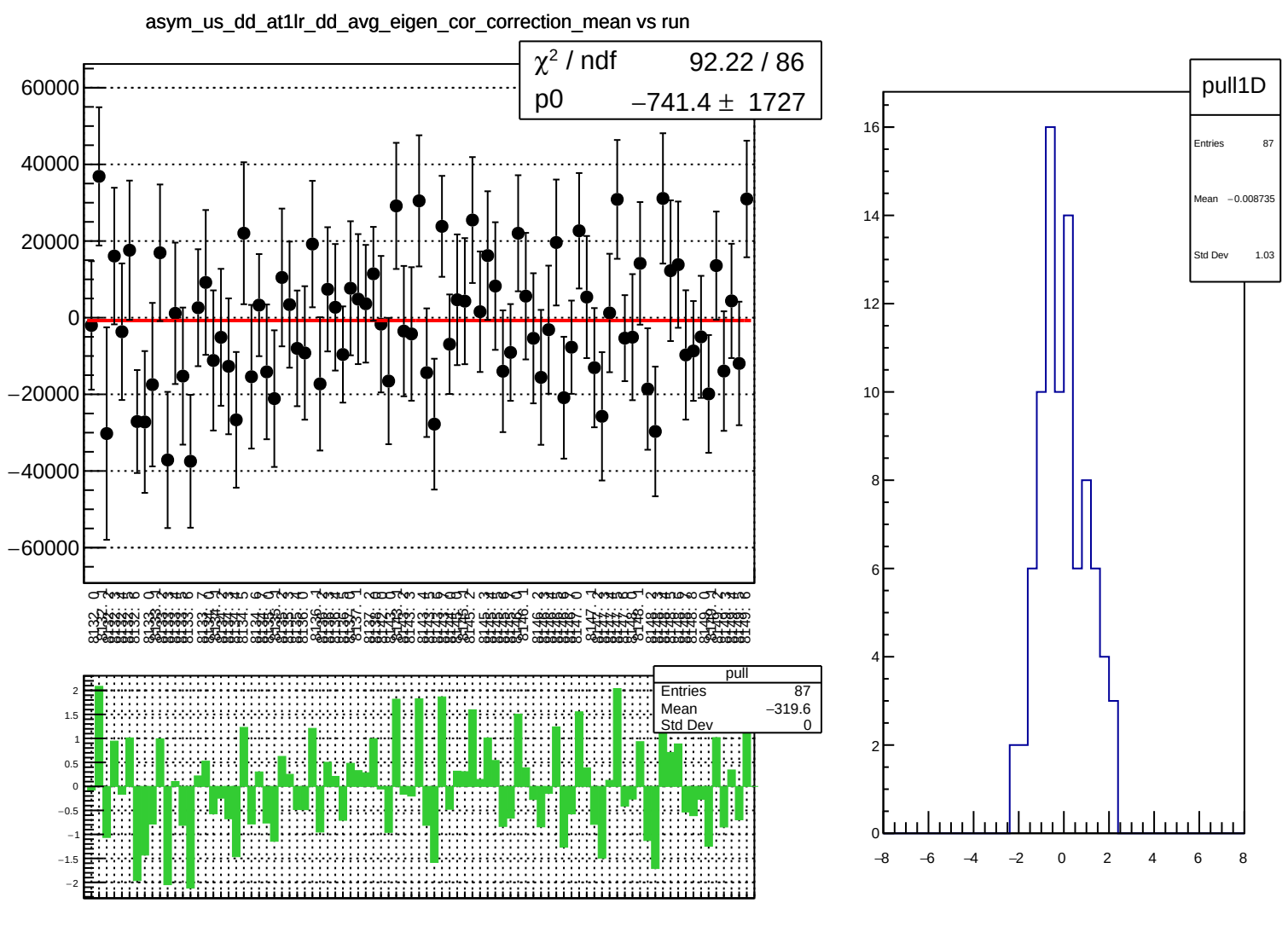

pull1D
Entries 87
Mean −0.008735
Std Dev 1.03
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

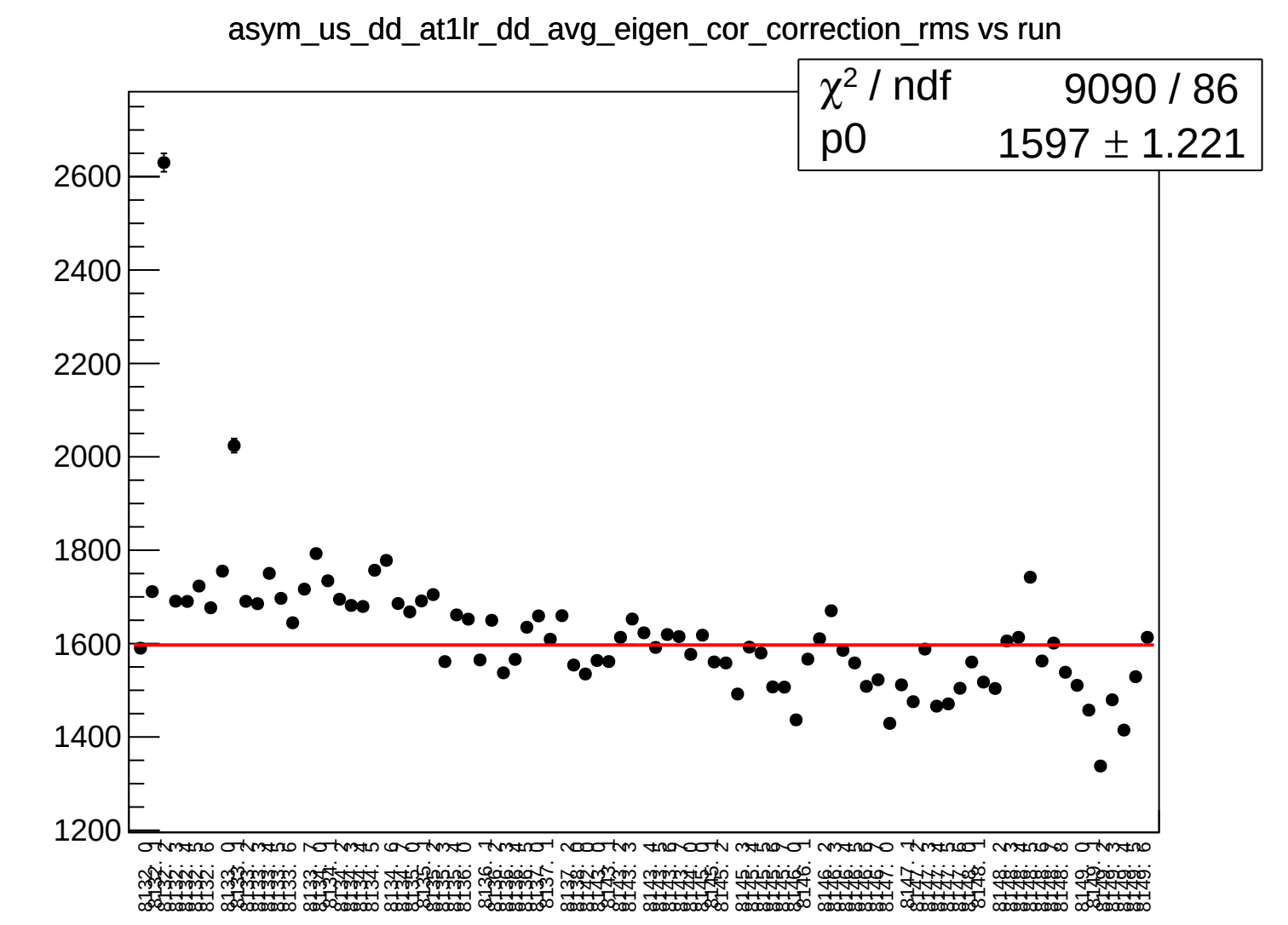

asym_us_dd_at1lr_dd_avg_cor_correction_rms vs run
χ² / ndf 9090 / 86
p0 1597 ± 1.221
2600
2400
2200
2000
1800
1600
1400
1200

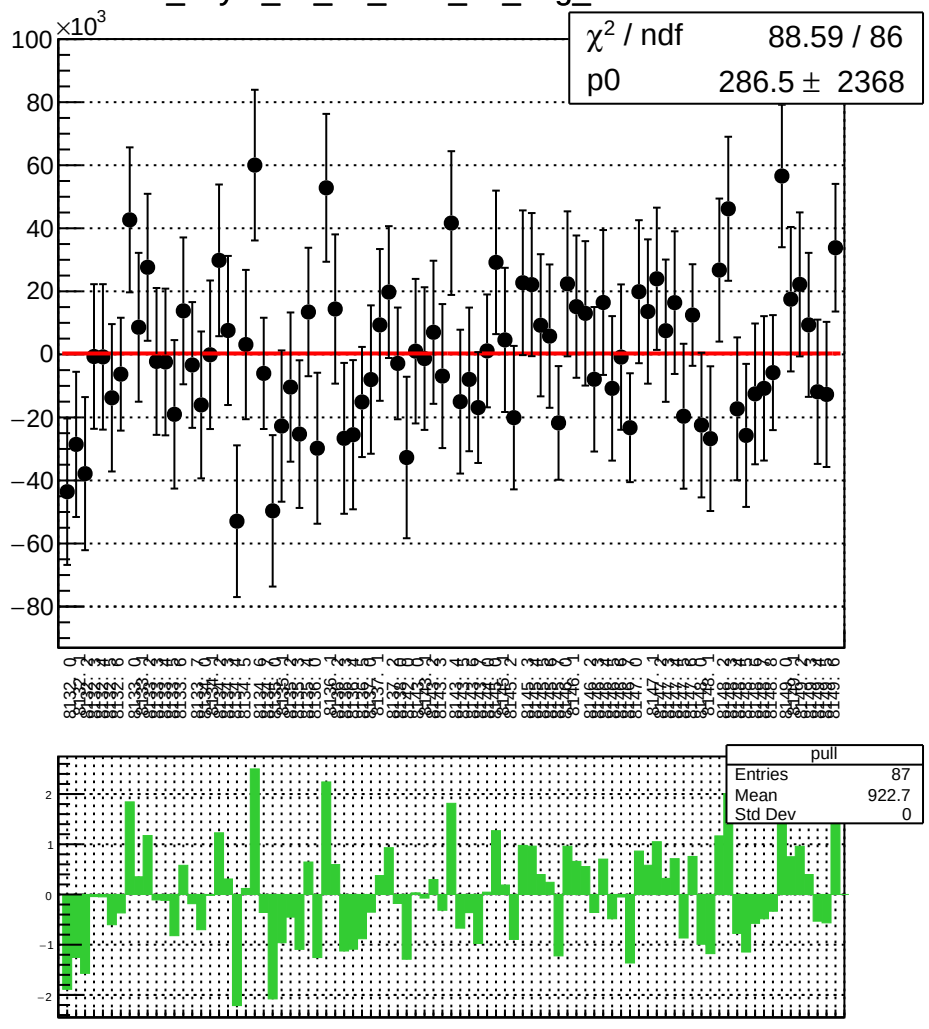

eigen_cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 87.71 / 86
p0 434.1 ± 2366
×10³
pull
Entries 87
Mean 879.7
Std Dev 0

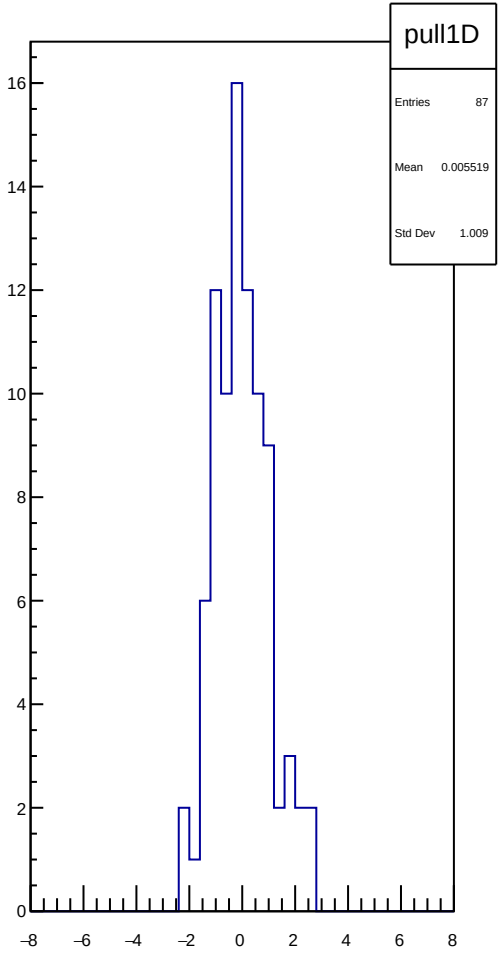

pull1D
Entries 87
Mean 0.005759
Std Dev 1.004

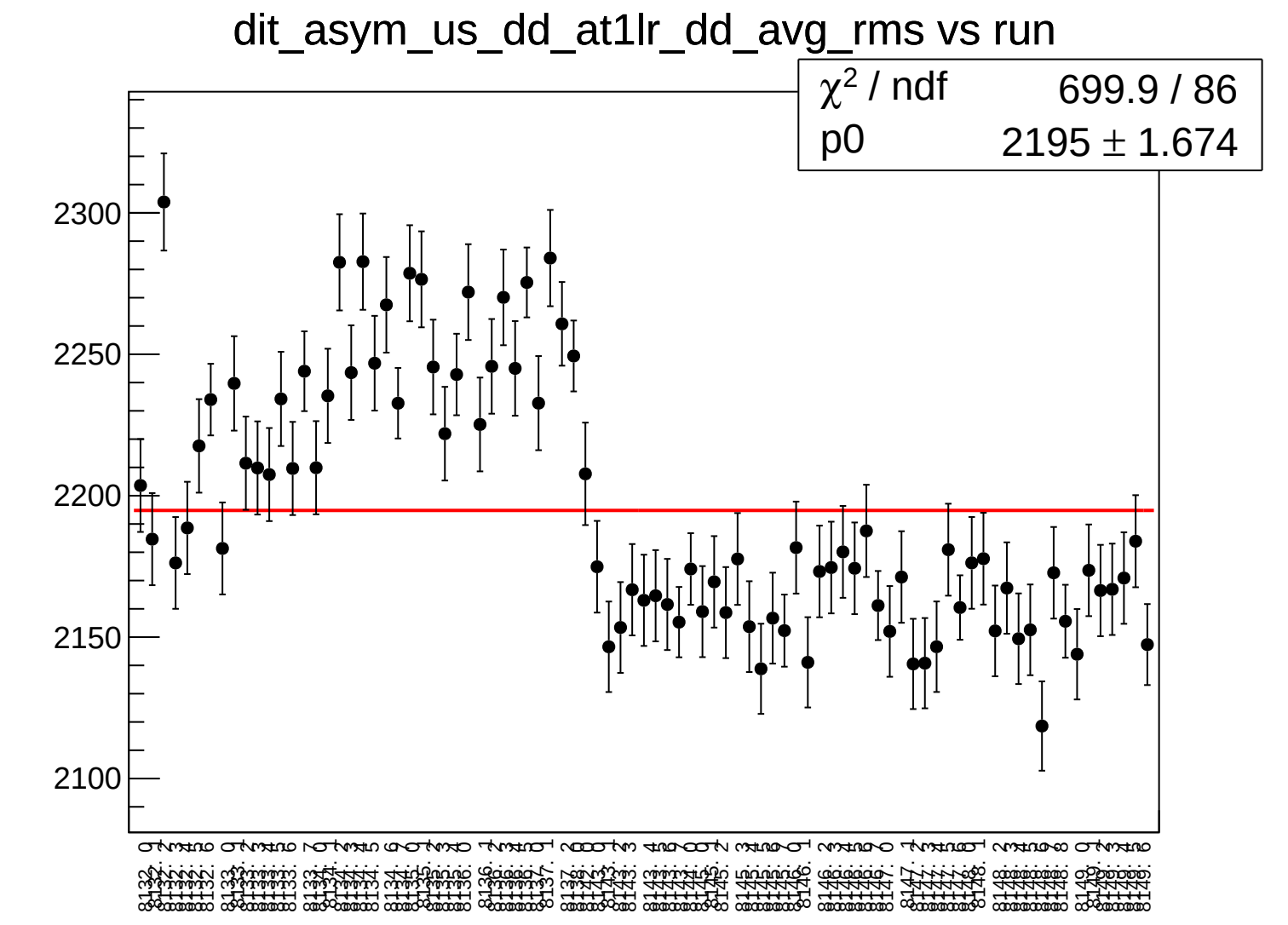

eigen_cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 688.7 / 86
p0 2193 ± 1.673
2300
2250
2200
2150
2100

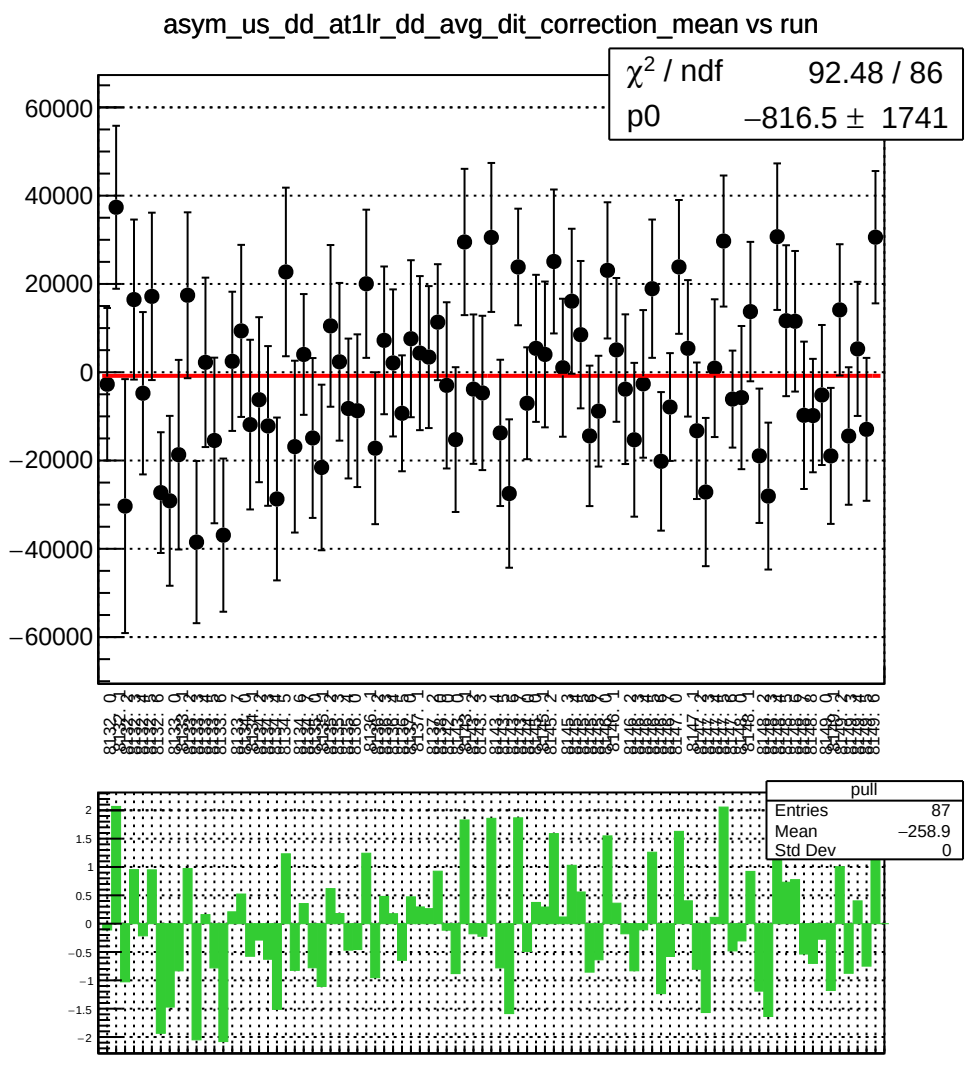

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 92.22 / 86
p0 −741.4 ± 1727
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −319.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 87
Mean −0.008735
Std Dev 1.03
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

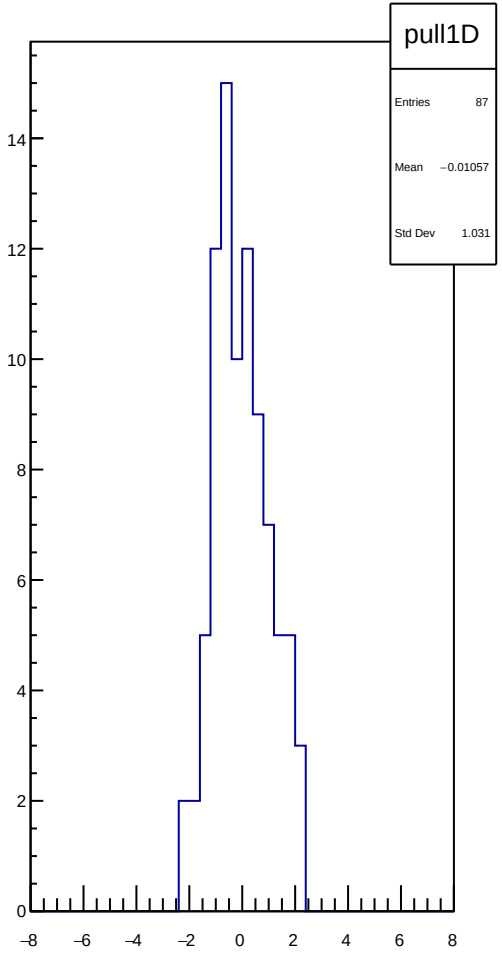

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 9090 / 86
p0 1597 ± 1.221
2600
2400
2200
2000
1800
1600
1400
1200

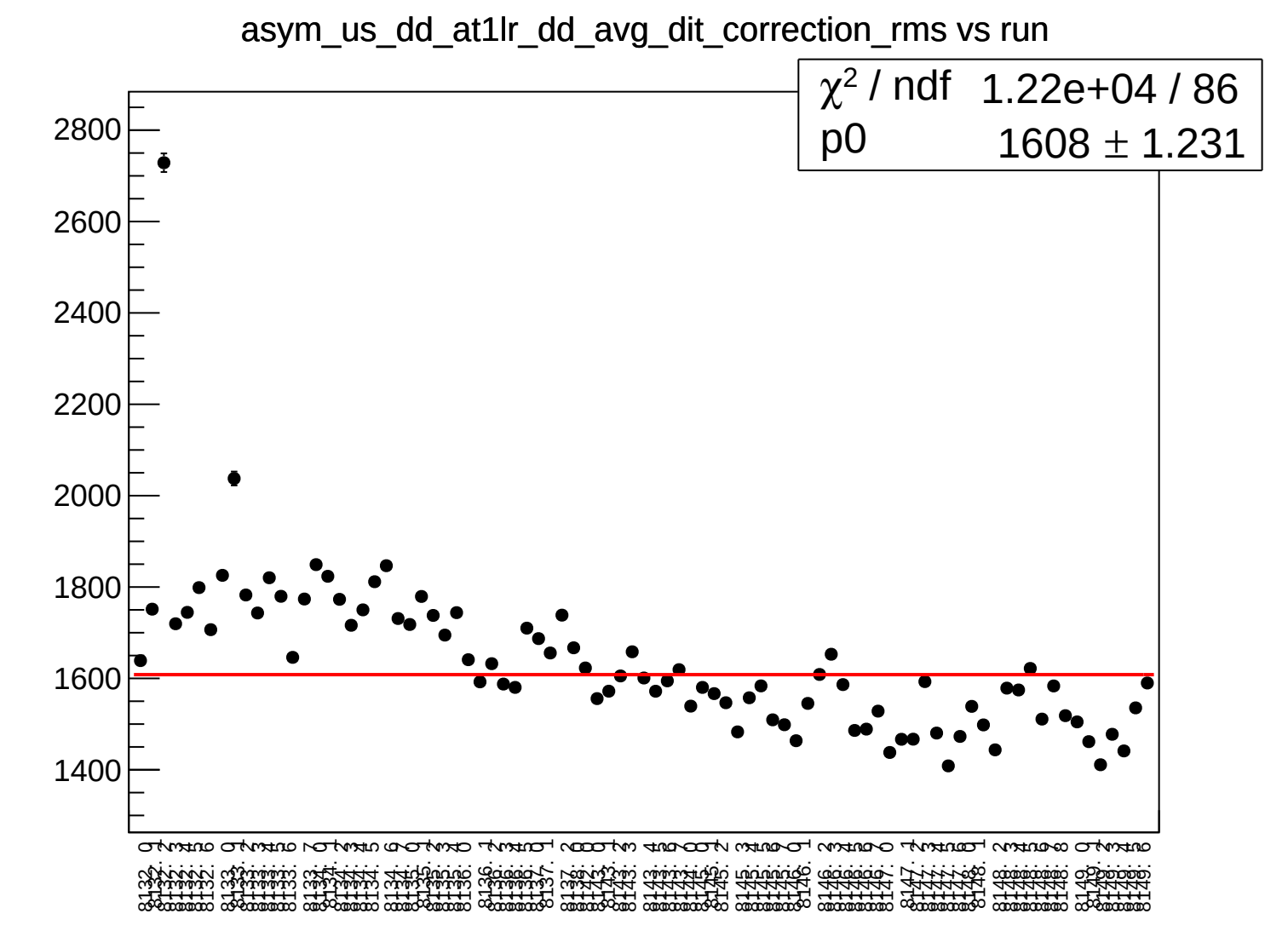

dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 88.59 / 86
p0 286.5 ± 2368
×10³
pull
Entries 87
Mean 922.7
Std Dev 0

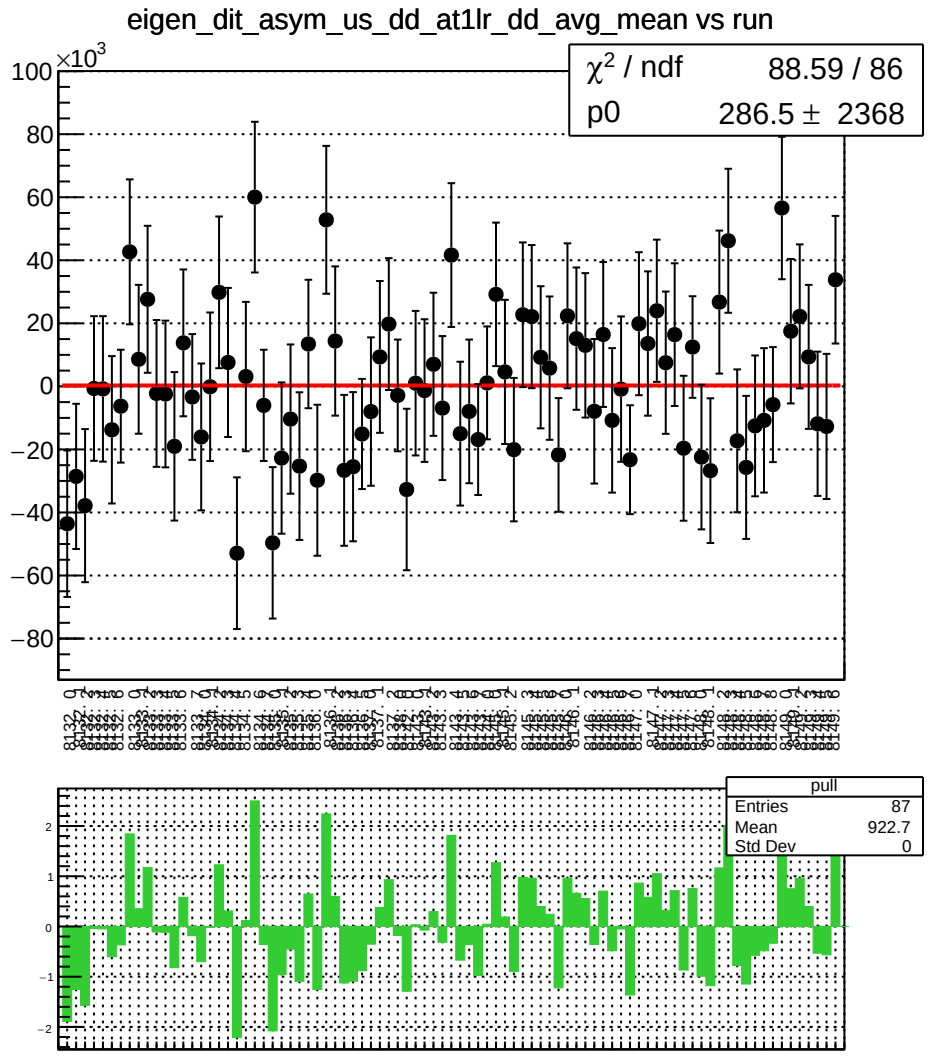

pull1D
Entries 87
Mean 0.005519
Std Dev 1.009

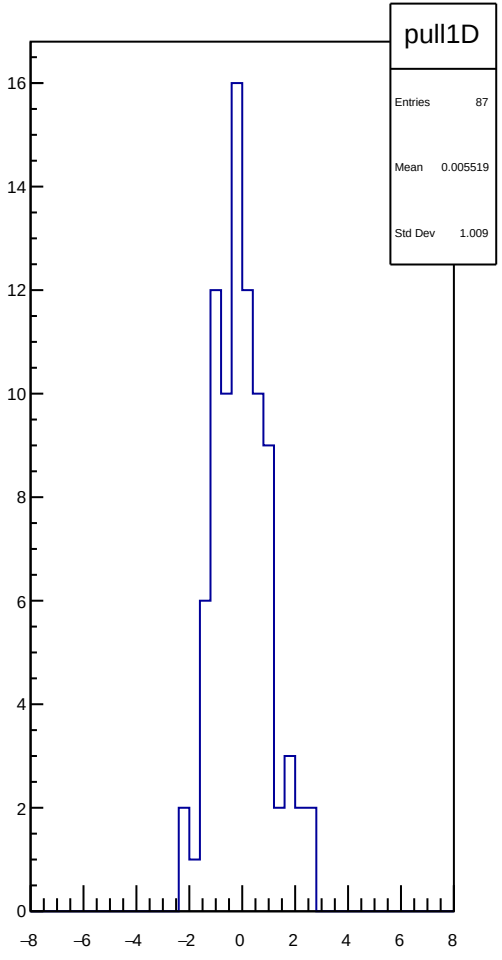

dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ^2 / ndf 699.9 / 86
p0 2195 ± 1.674
2300
2250
2200
2150
2100

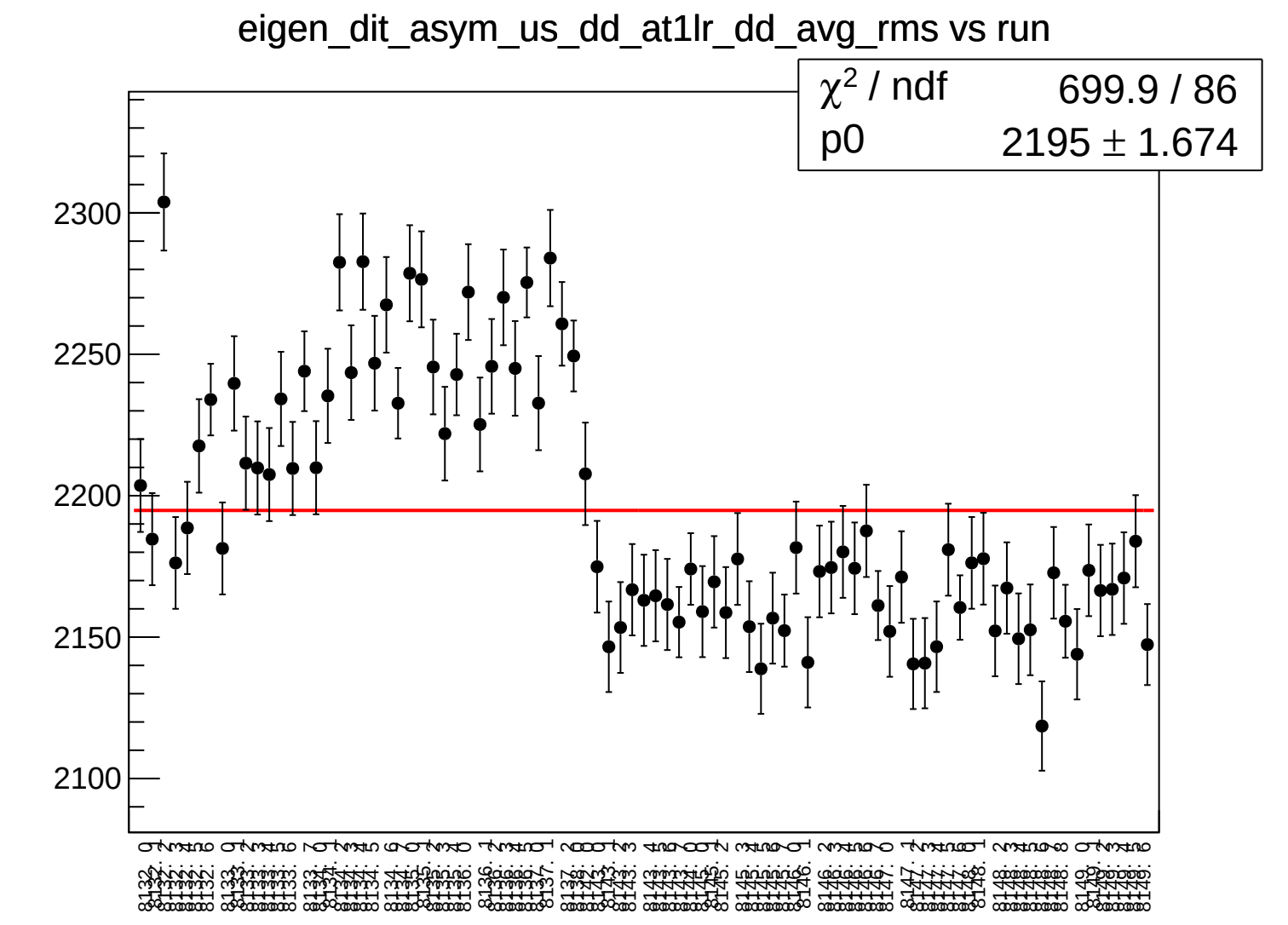

asym_us_dd_at1lr_dd_avg_dit_correction_mean vs run
χ² / ndf 92.48 / 86
p0 −816.5 ± 1741
pull
Entries 87
Mean −258.9
Std Dev 0

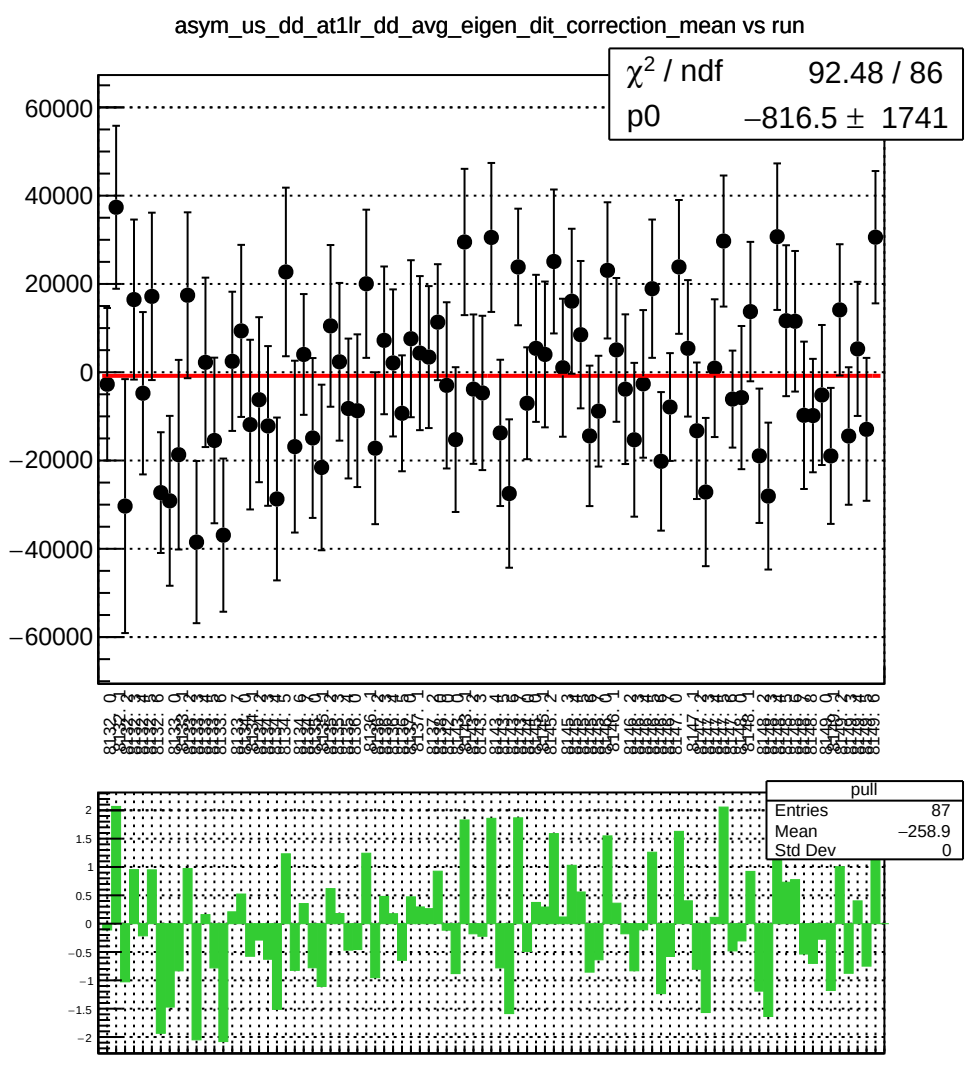

pull1D
Entries 87
Mean −0.01057
Std Dev 1.031

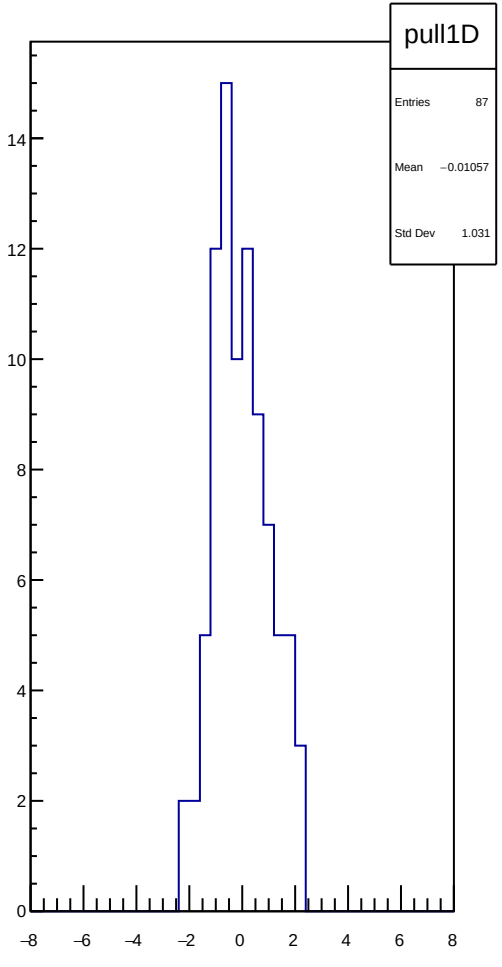

asym_us_dd_at1lr_dd_avg_dit_correction_rms vs run
χ² / ndf 1.22e+04 / 86
p0 1608 ± 1.231
2800
2600
2400
2200
2000
1800
1600
1400

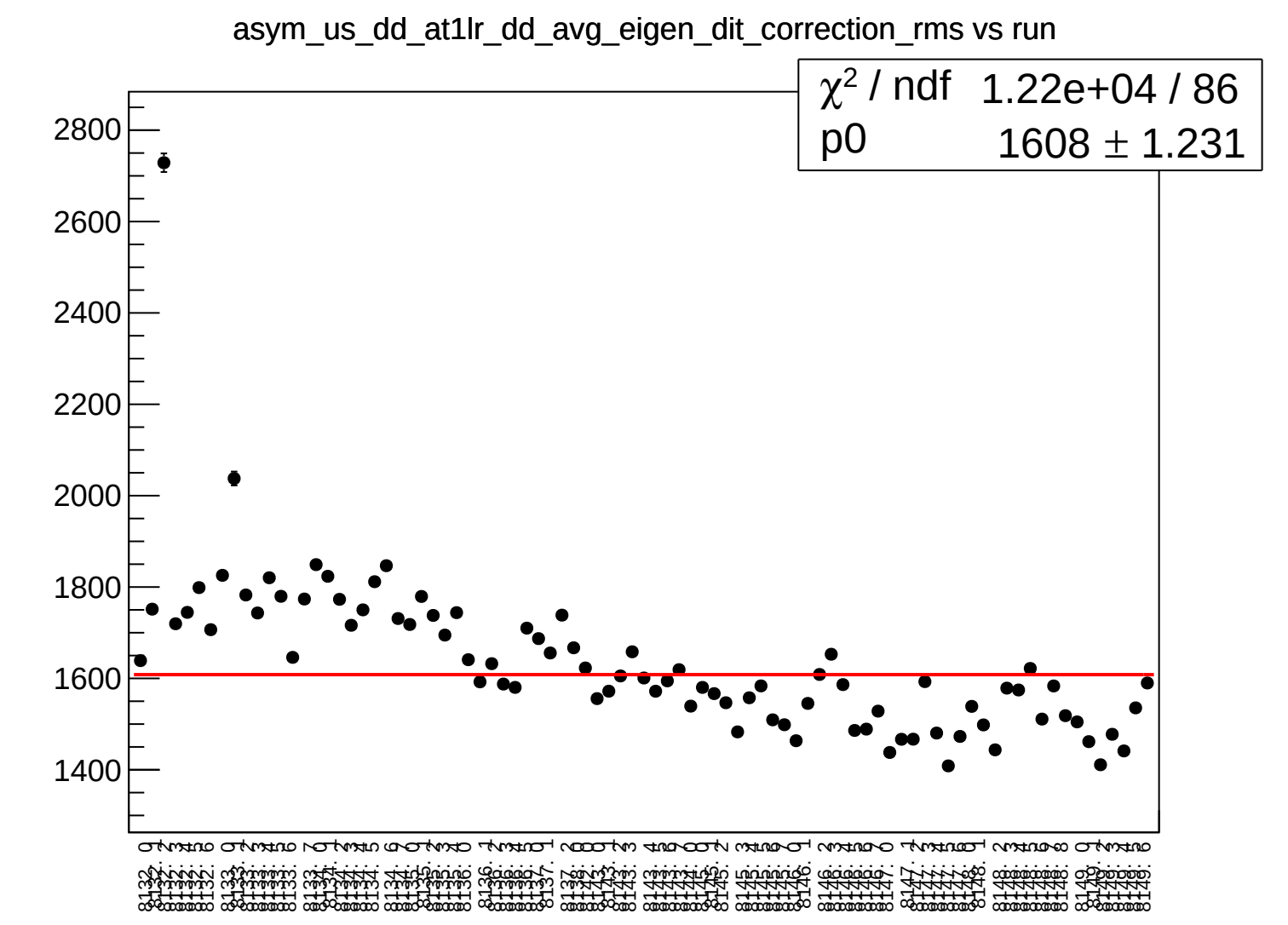

eigen_dit_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 88.59 / 86
p0 286.5 ± 2368
pull
Entries 87
Mean 922.7
Std Dev 0

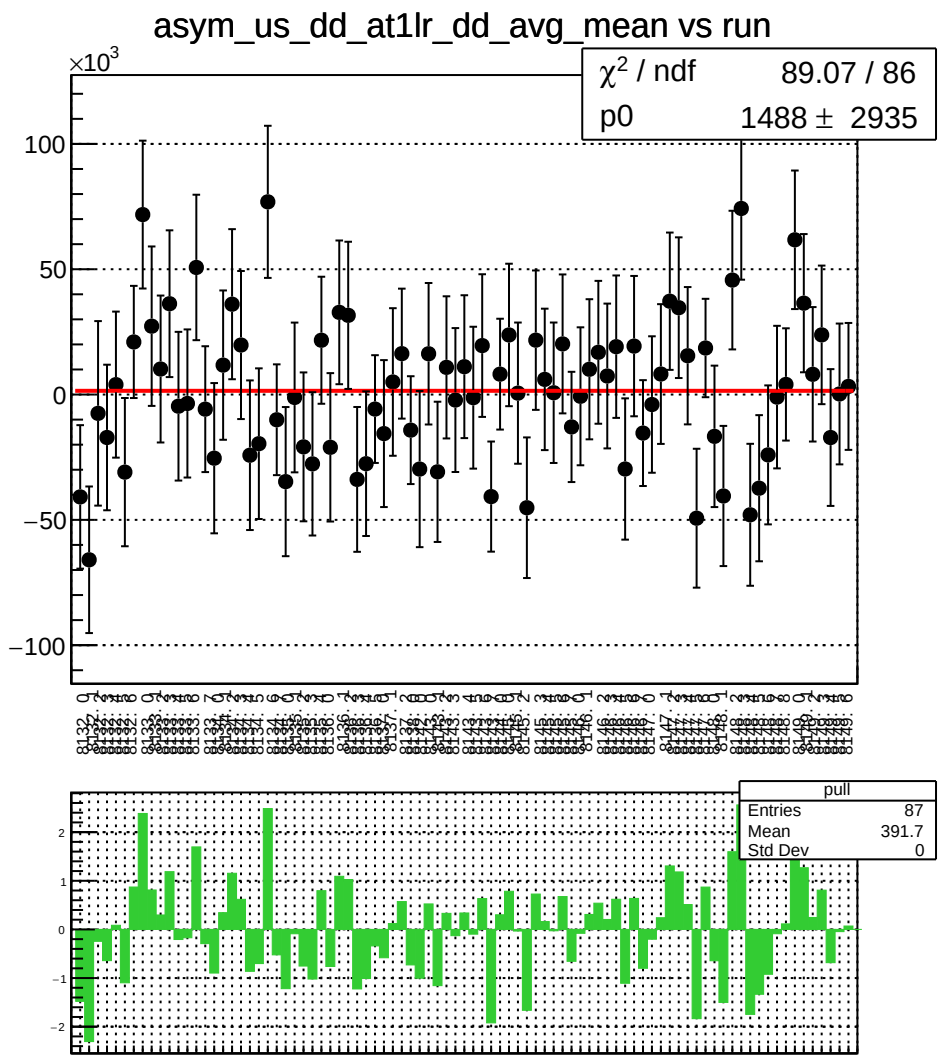

pull1D
Entries 87
Mean 0.005519
Std Dev 1.009

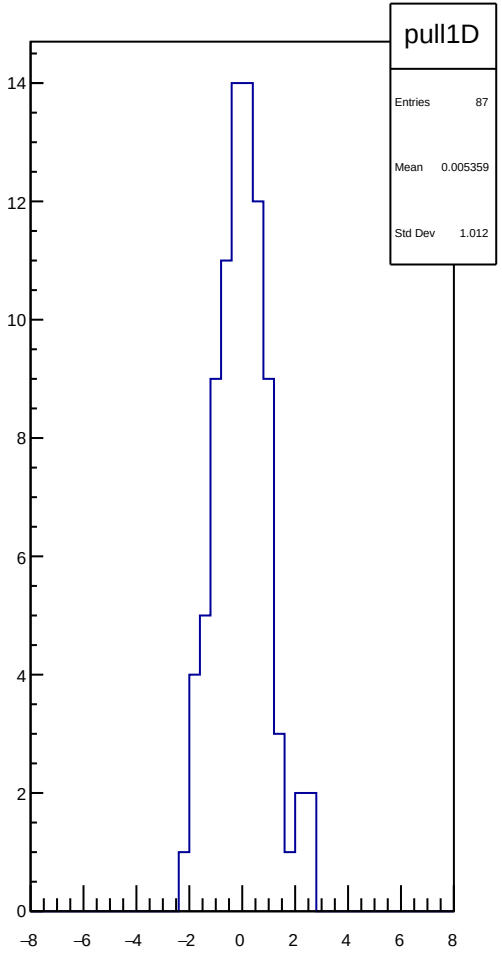

eigen_dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 699.9 / 86
p0 2195 ± 1.674
2300
2250
2200
2150
2100

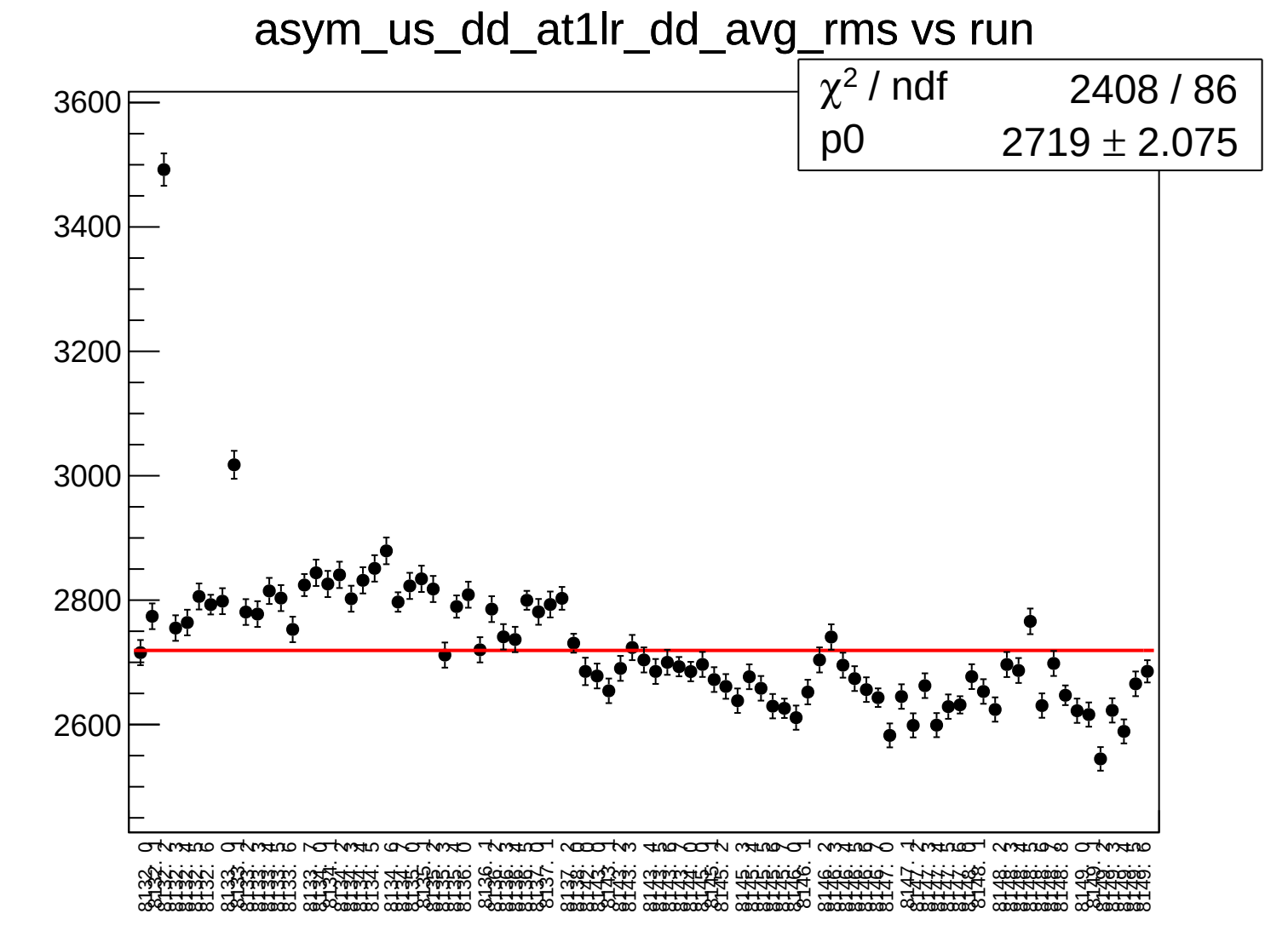

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 92.48 / 86
p0 −816.5 ± 1741
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −258.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

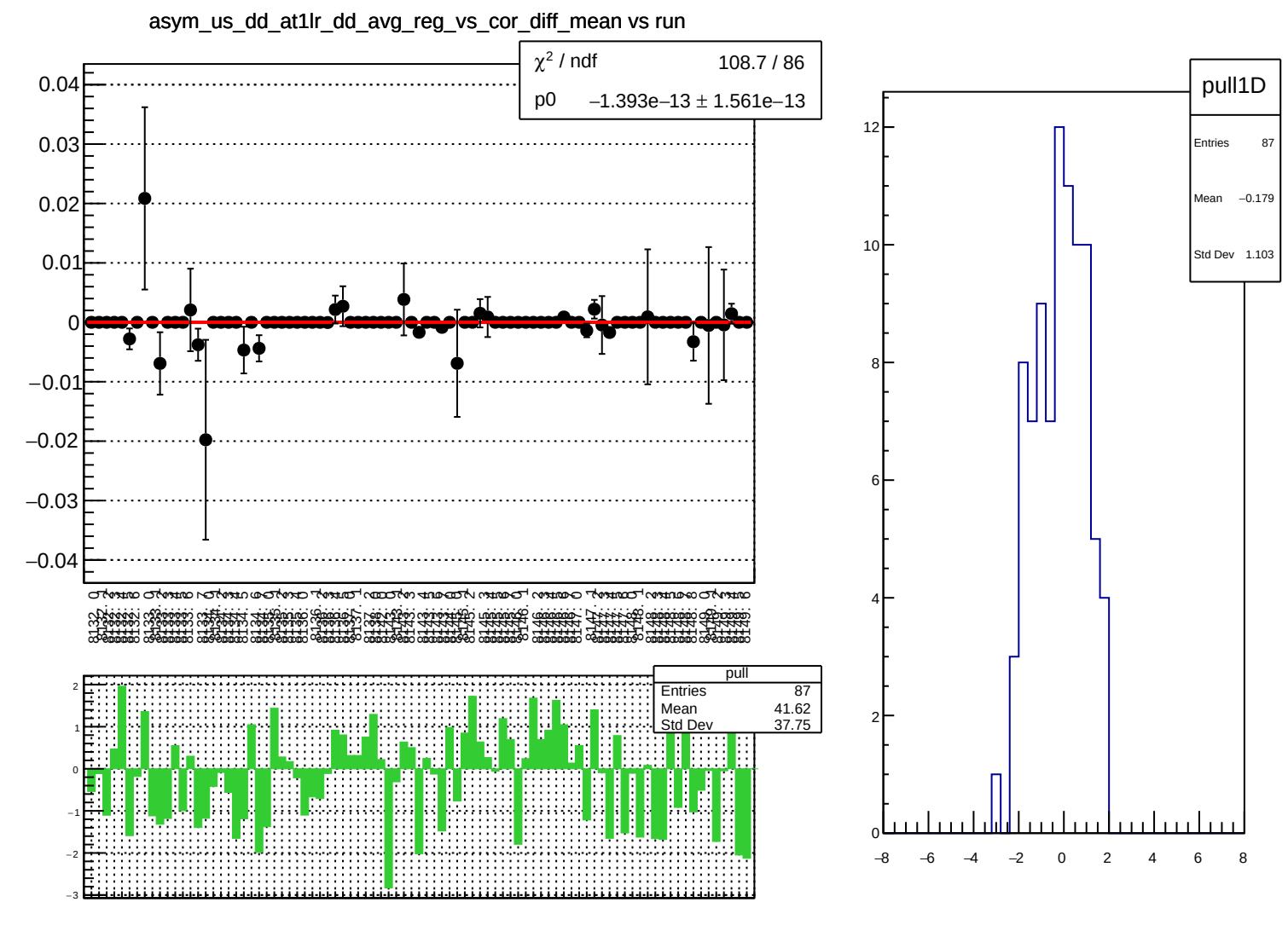

pull1D
Entries 87
Mean −0.01057
Std Dev 1.031
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

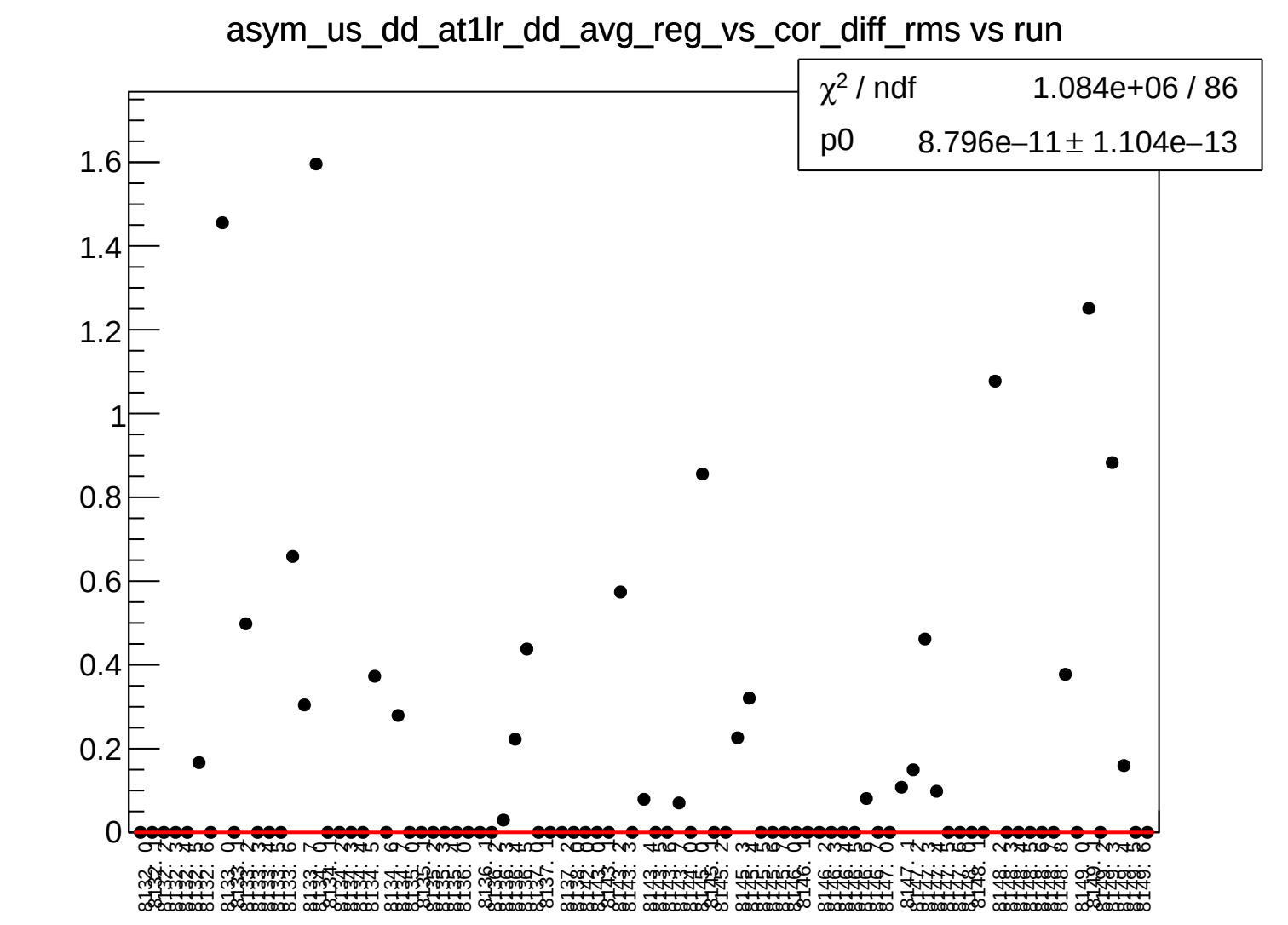

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.22e+04 / 86
p0 1608 ± 1.231
2800
2600
2400
2200
2000
1800
1600
1400

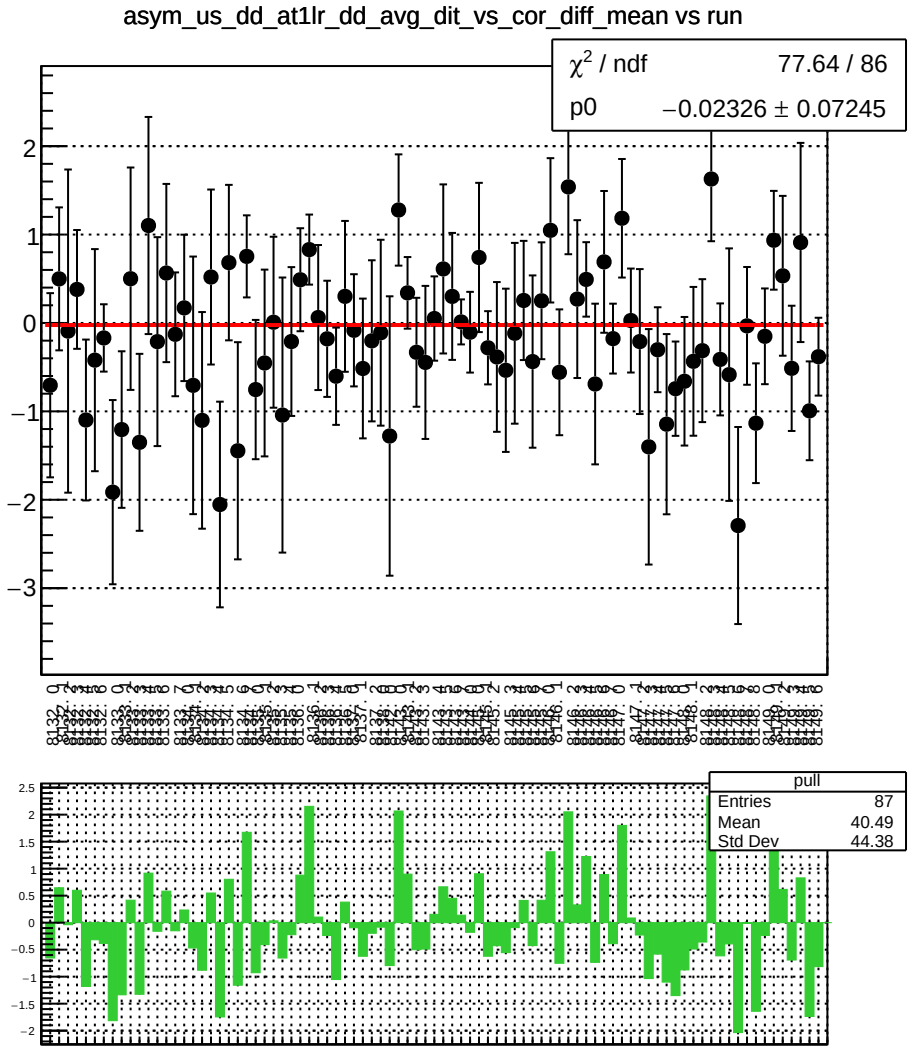

asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ^2 / ndf 89.07 / 86
p0 1488 ± 2935
100
50
0
−50
−100
pull
Entries 87
Mean 391.7
Std Dev 0
2
1
0
−1
−2

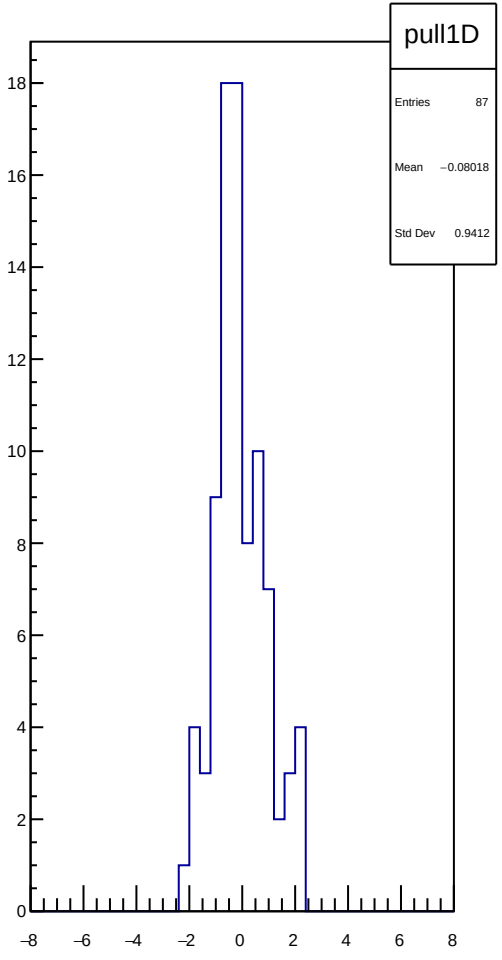

pull1D
Entries 87
Mean 0.005359
Std Dev 1.012
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

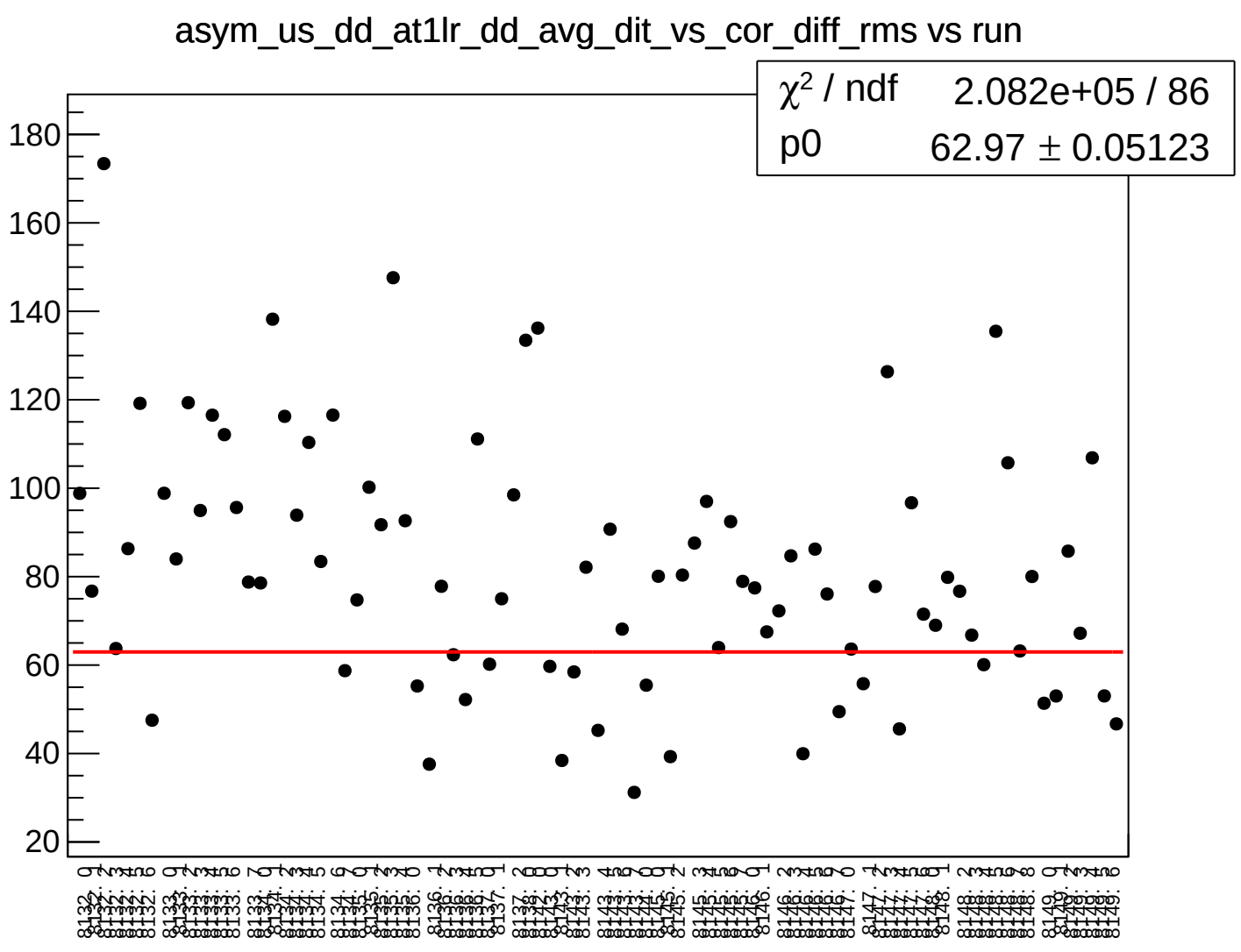

asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 2408 / 86
p0 2719 ± 2.075
3600
3400
3200
3000
2800
2600

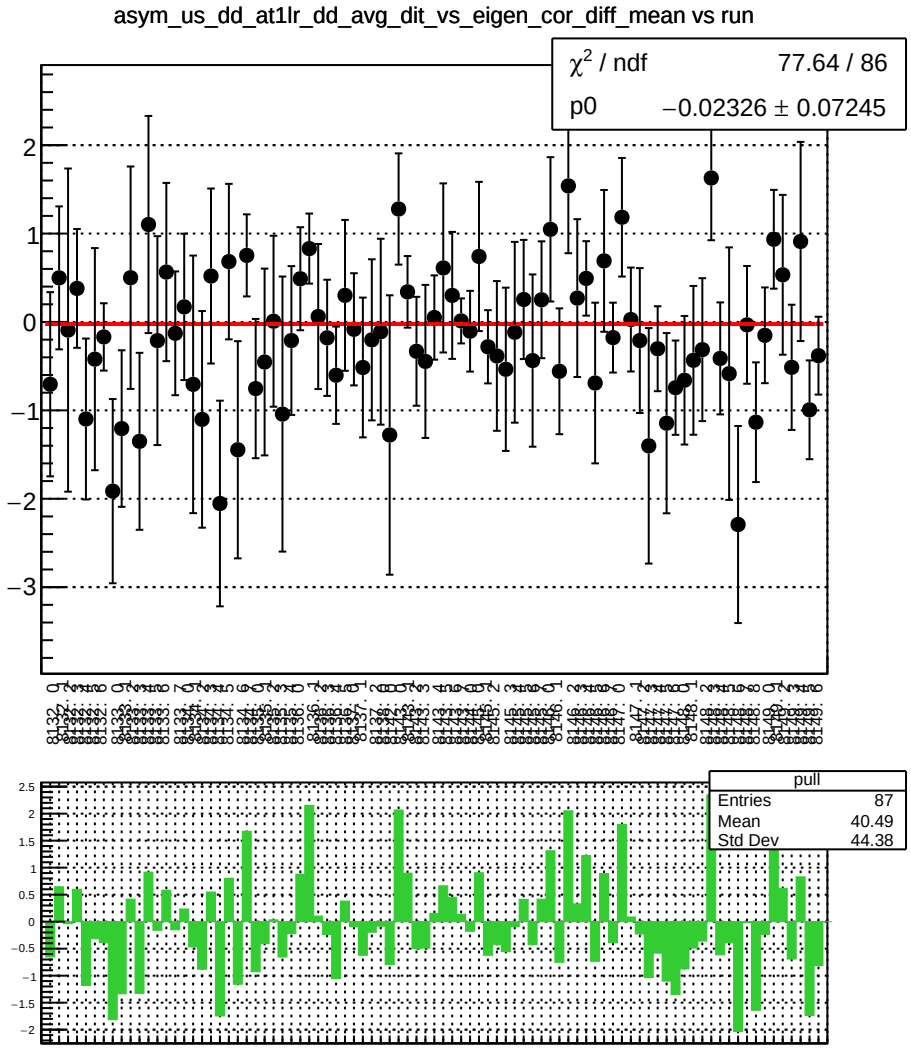

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 108.7 / 86
p0 −1.393e−13 ± 1.561e−13
pull
Entries 87
Mean 41.62
Std Dev 37.75
pull1D
Entries 87
Mean −0.179
Std Dev 1.103

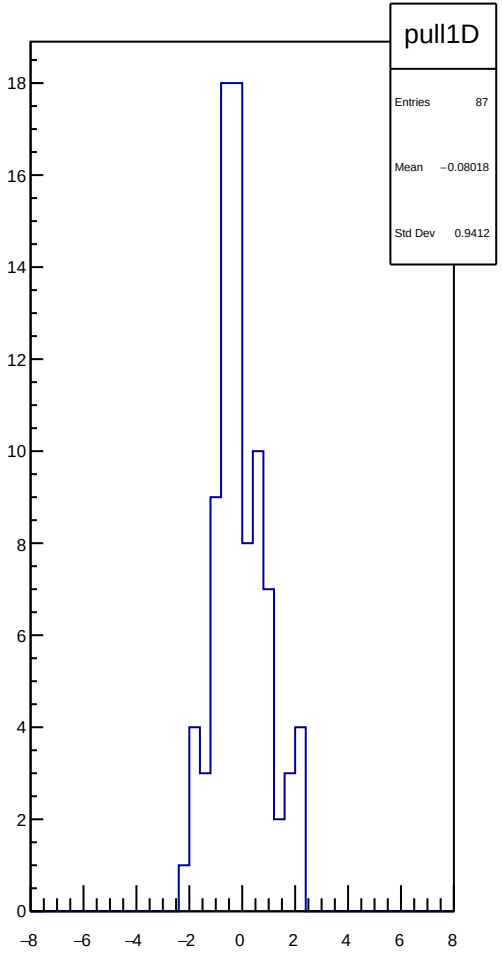

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.084e+06 / 86
p0 8.796e−11 ± 1.104e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

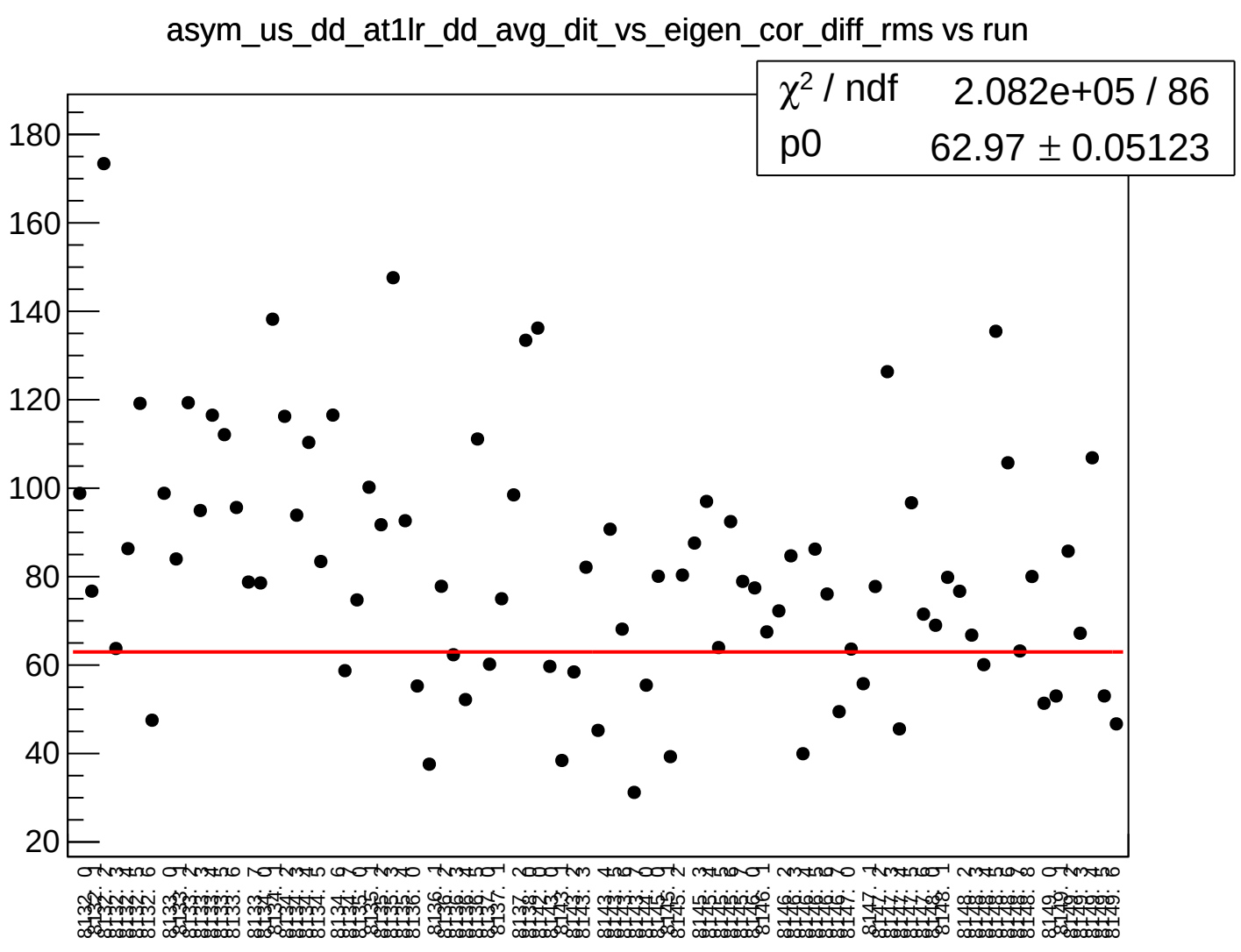

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 77.64 / 86
p0 −0.02326 ± 0.07245
pull
Entries 87
Mean 40.49
Std Dev 44.38

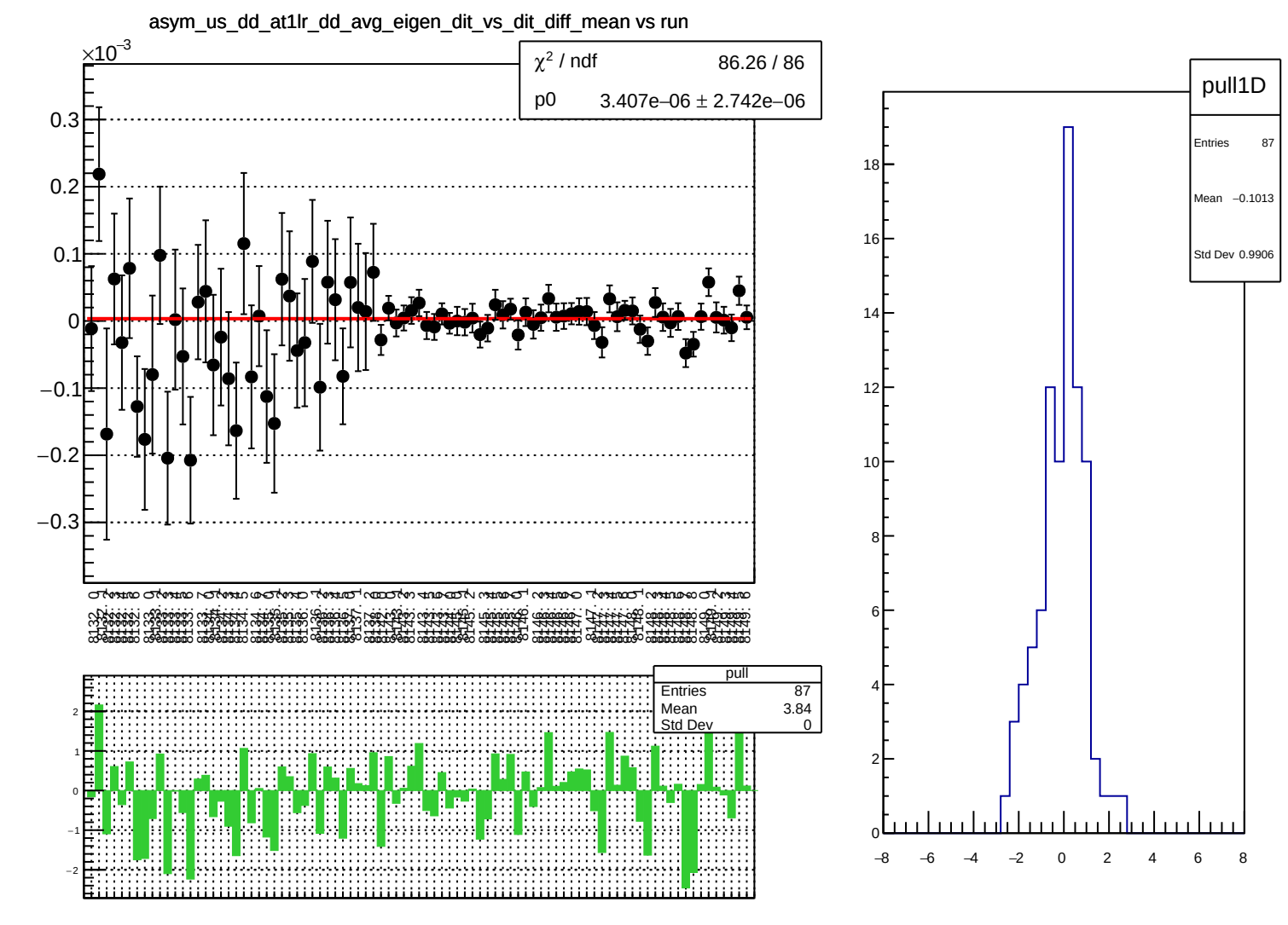

pull1D
Entries 87
Mean −0.08018
Std Dev 0.9412

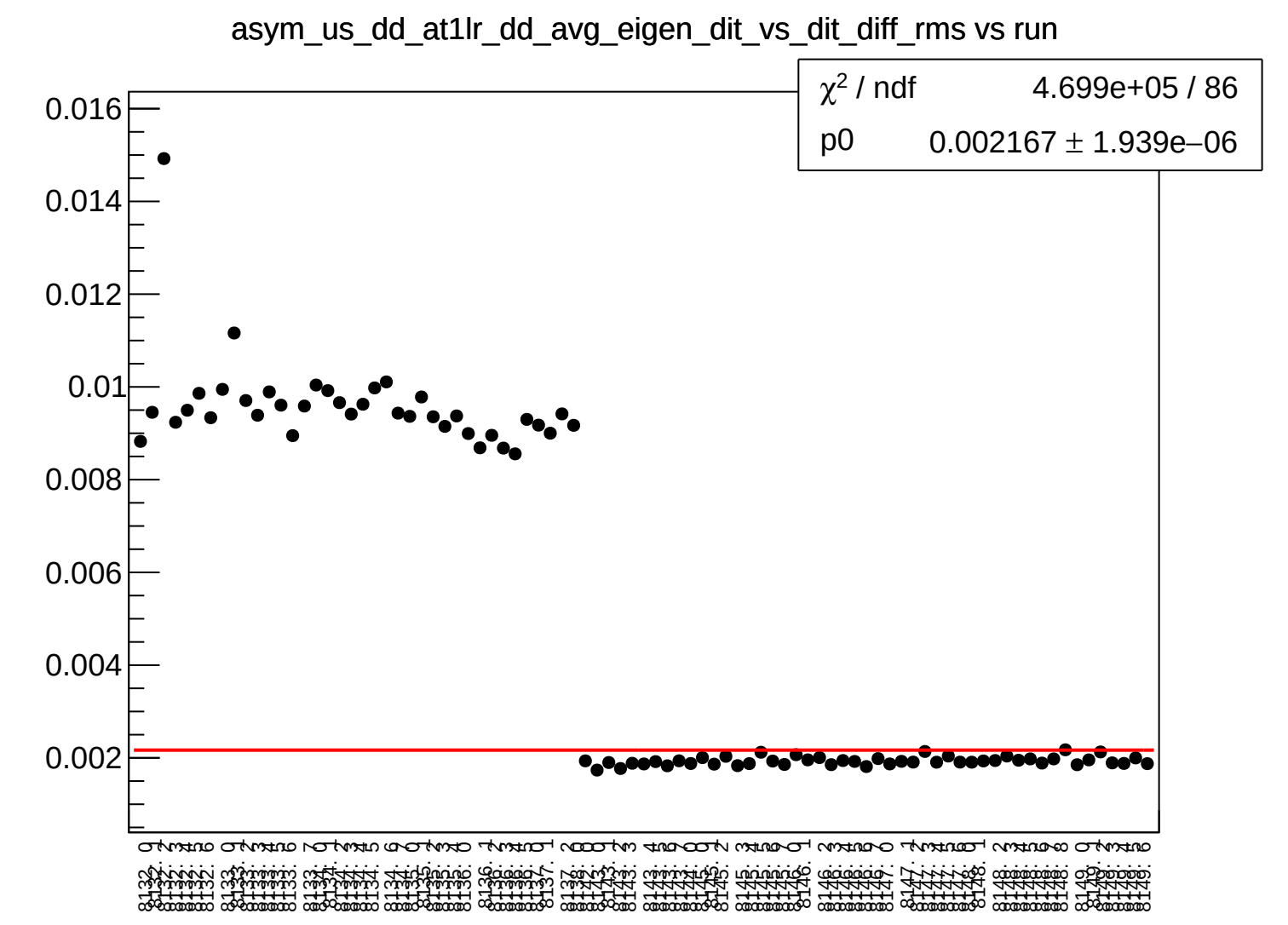

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.082e+05 / 86
p0 62.97 ± 0.05123
180
160
140
120
100
80
60
40
20

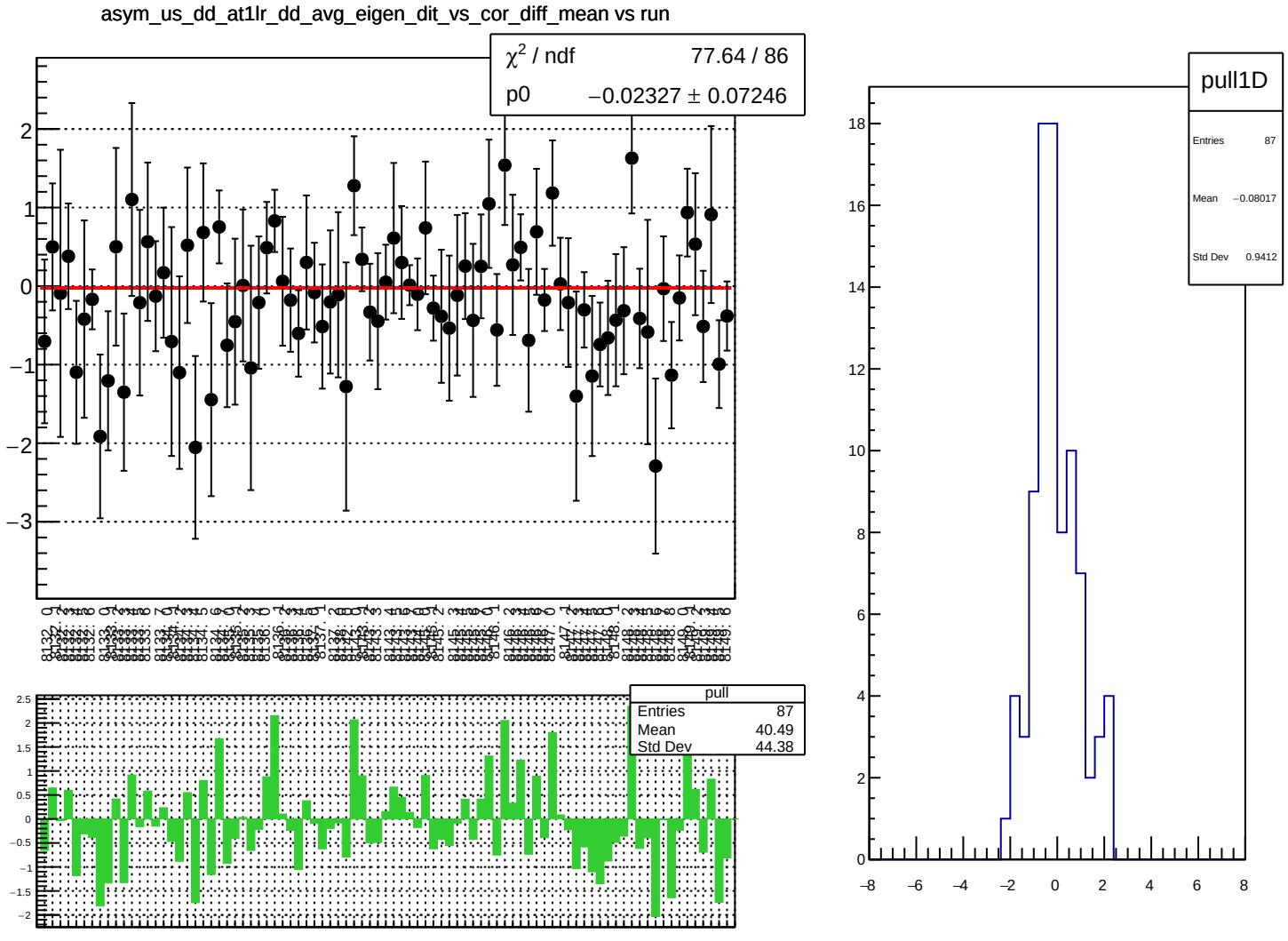

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.64 / 86
p0 −0.02326 ± 0.07245
pull
Entries 87
Mean 40.49
Std Dev 44.38

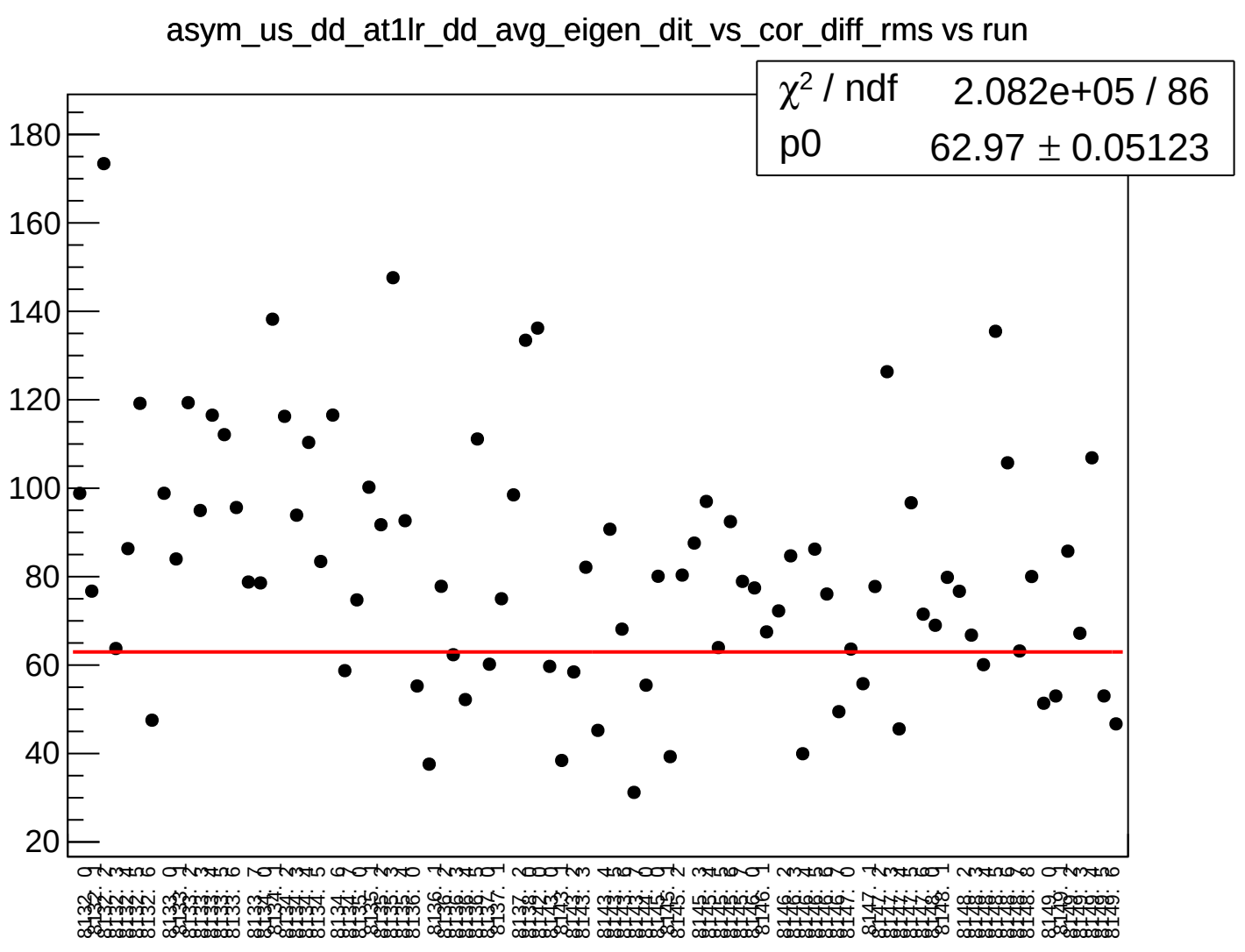

pull1D
Entries 87
Mean −0.08018
Std Dev 0.9412

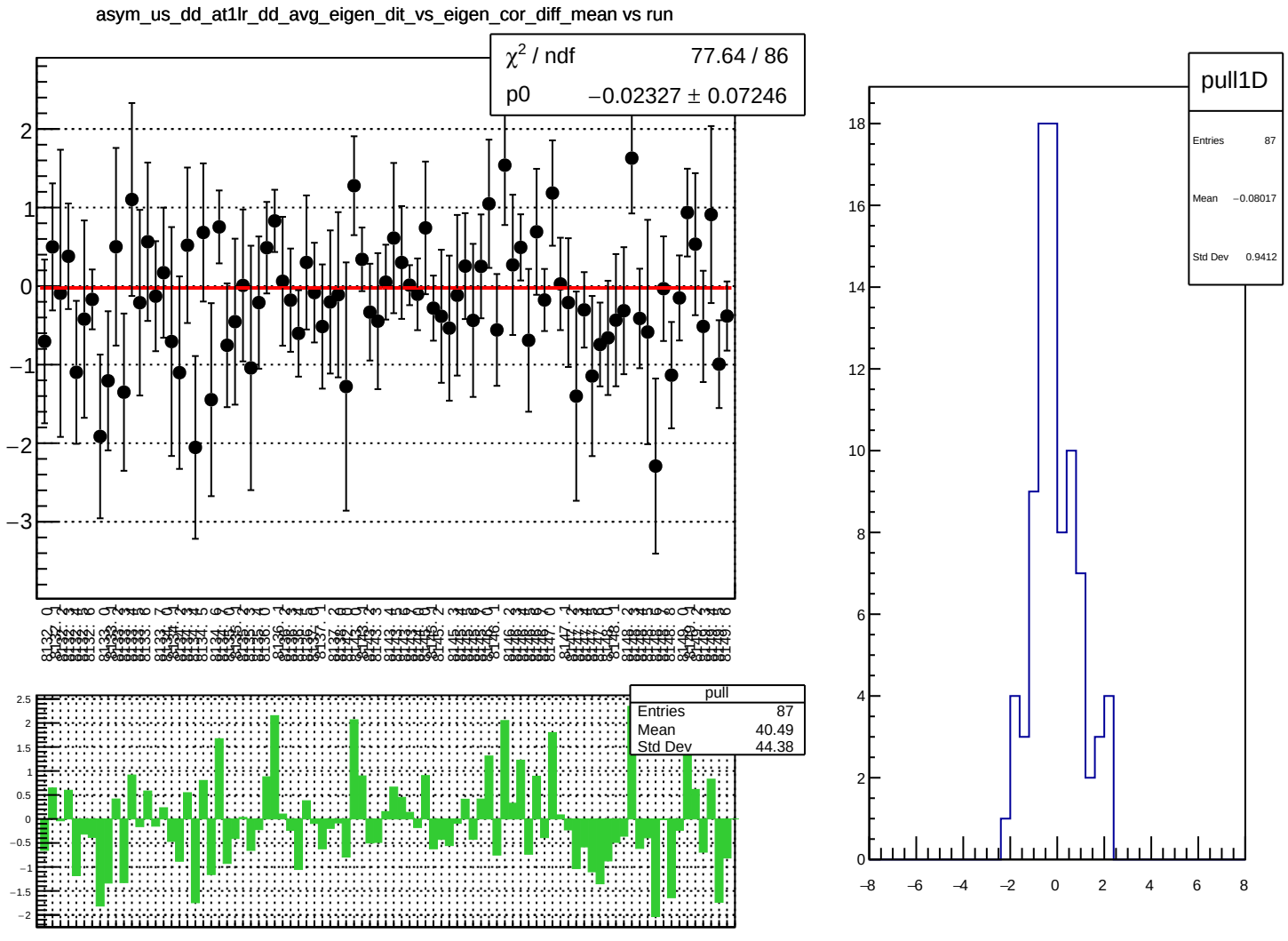

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.082e+05 / 86
p0 62.97 ± 0.05123
180
160
140
120
100
80
60
40
20

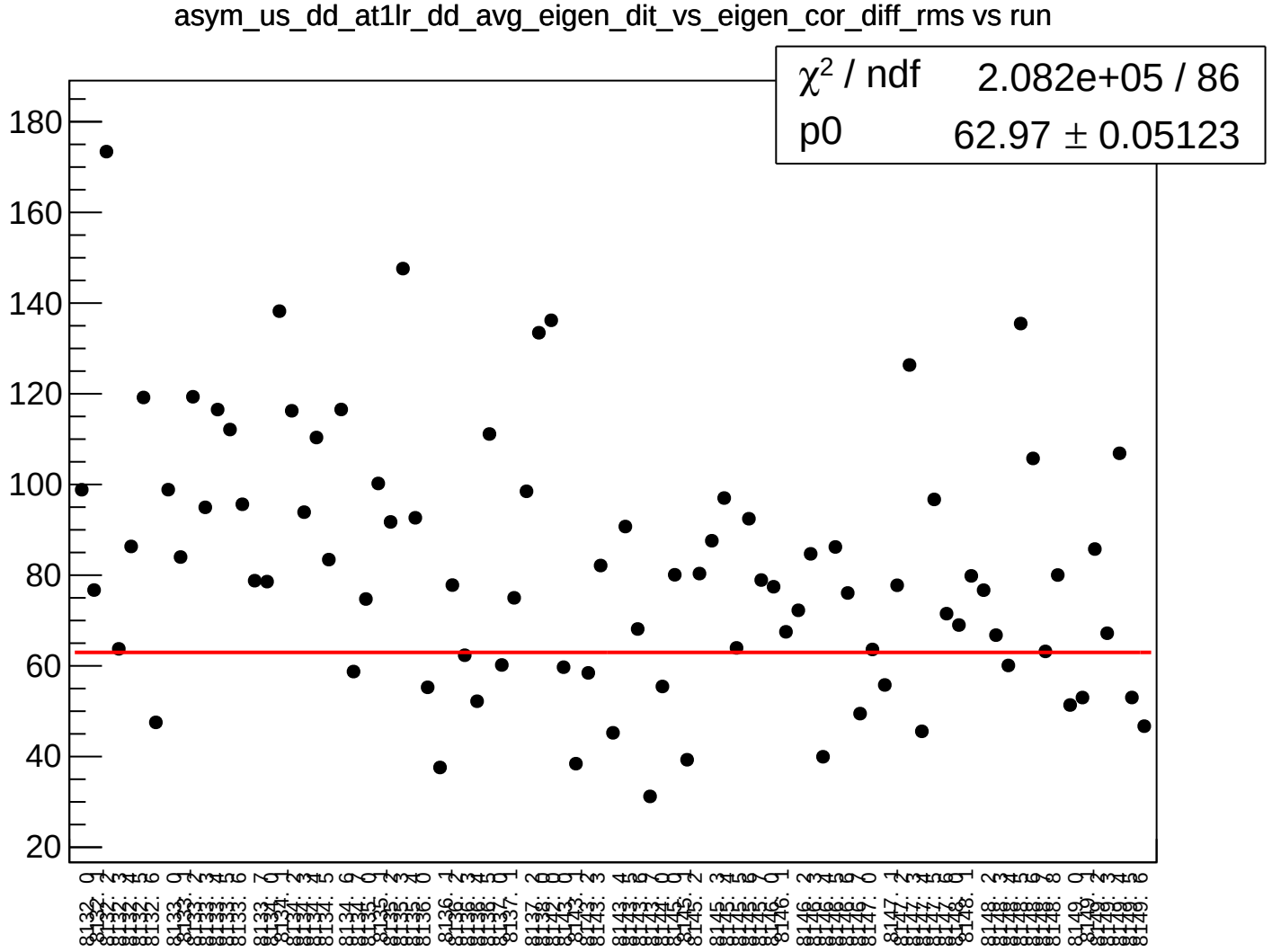

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.26 / 86
p0 3.407e−06 ± 2.742e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 87
Mean 3.84
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.1013
Std Dev 0.9906
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

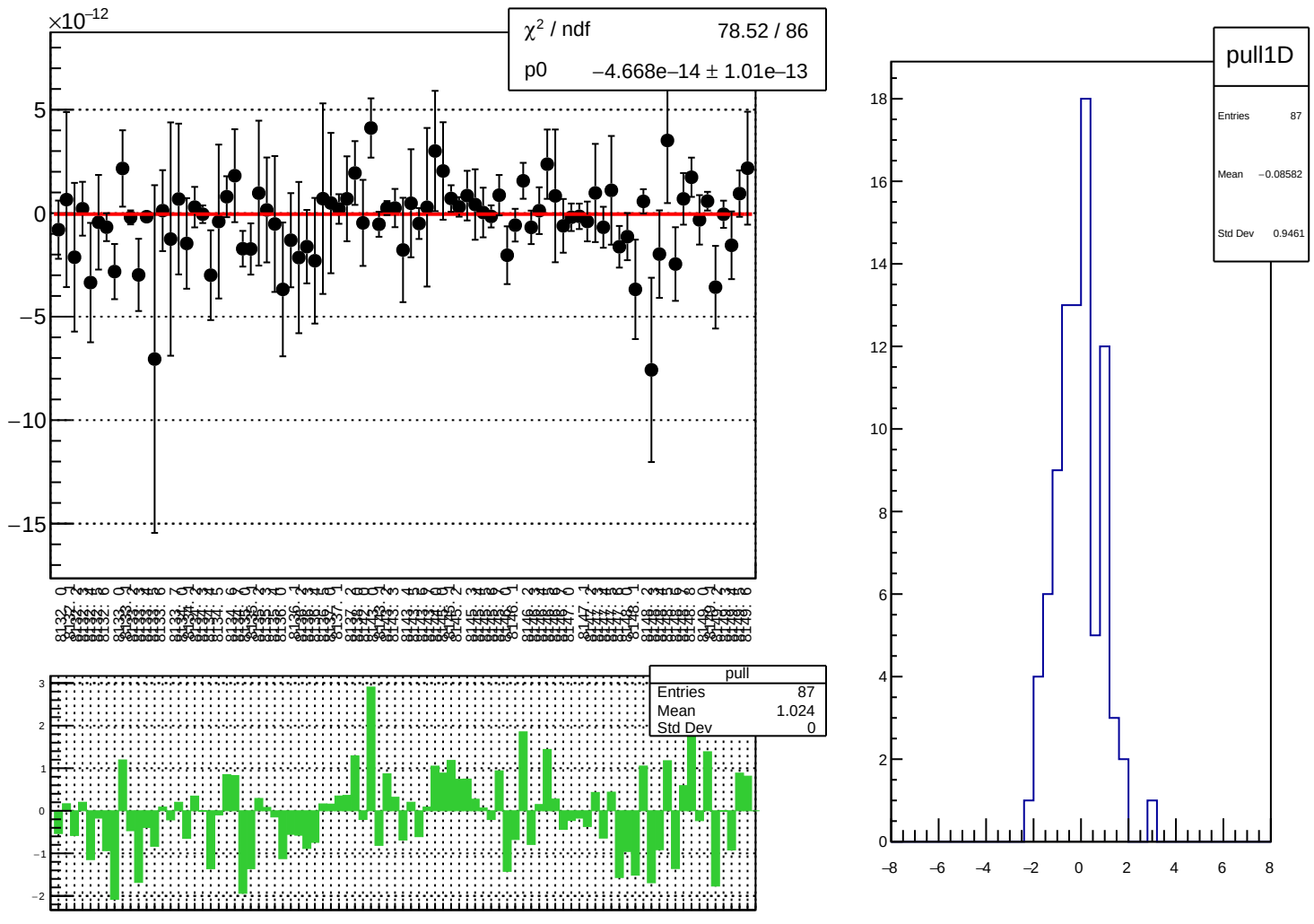

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.699e+05 / 86
p0 0.002167 ± 1.939e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

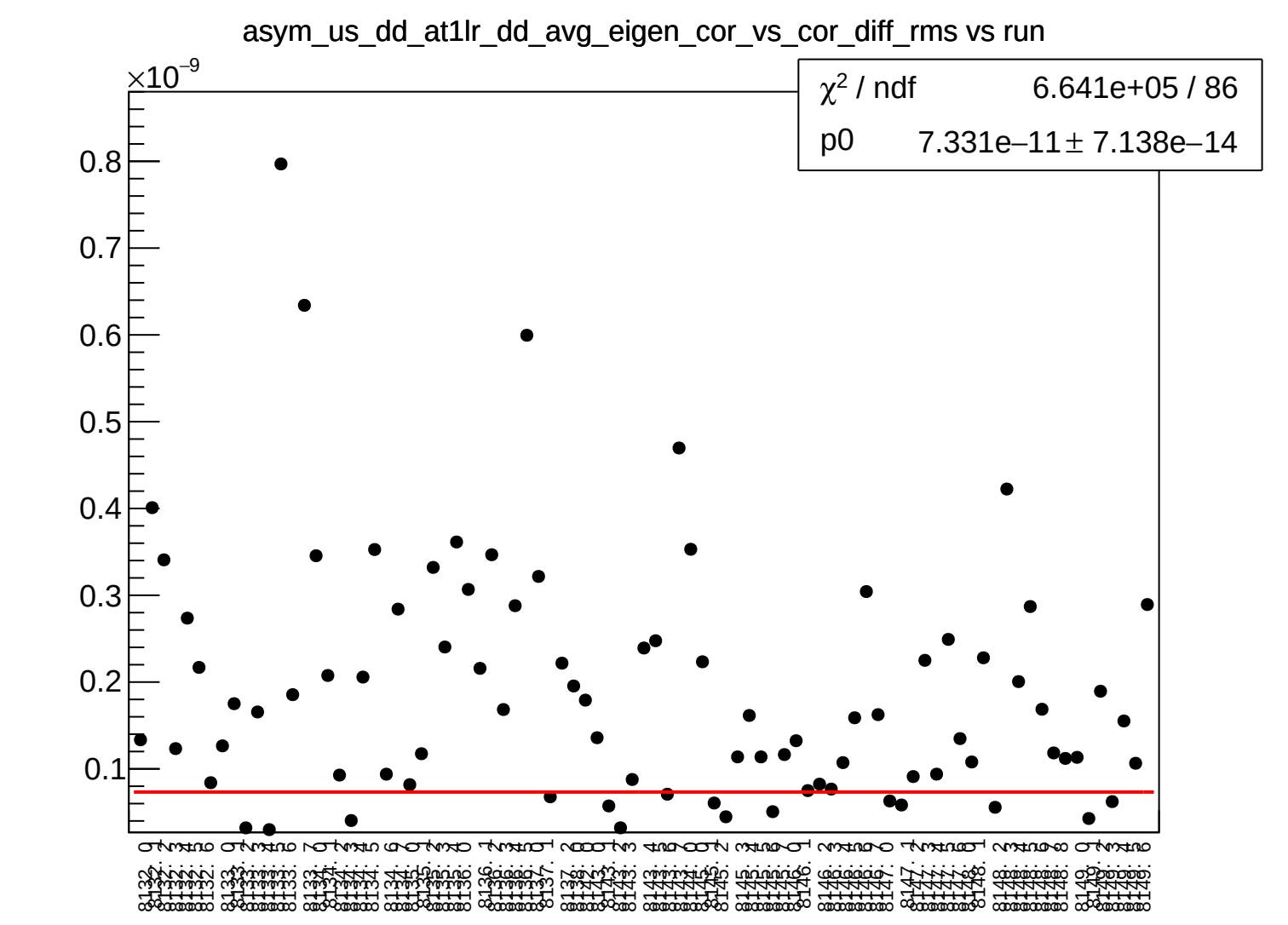

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.64 / 86
p0 −0.02327 ± 0.07246
pull
Entries 87
Mean 40.49
Std Dev 44.38
pull1D
Entries 87
Mean −0.08017
Std Dev 0.9412

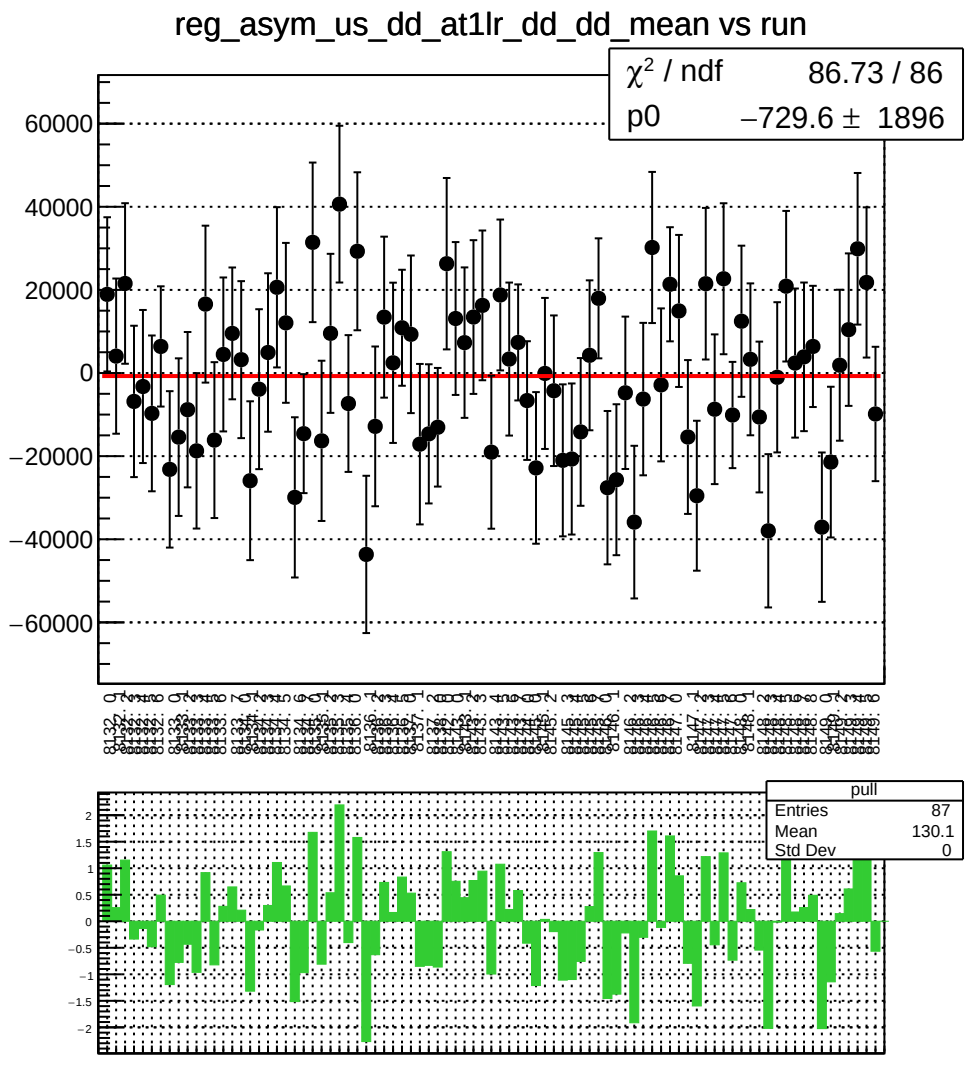

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.082e+05 / 86
p0 62.97 ± 0.05123
180
160
140
120
100
80
60
40
20

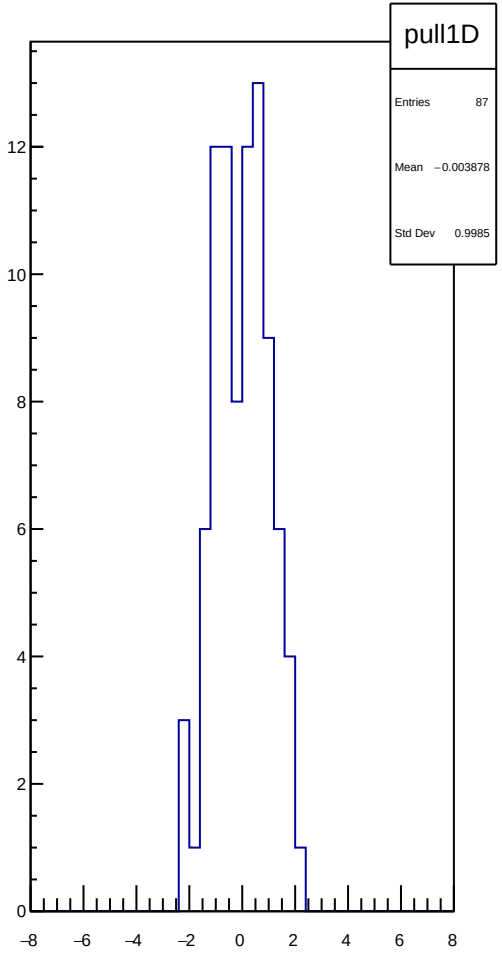

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.64 / 86
p0 −0.02327 ± 0.07246
pull
Entries 87
Mean 40.49
Std Dev 44.38
pull1D
Entries 87
Mean −0.08017
Std Dev 0.9412

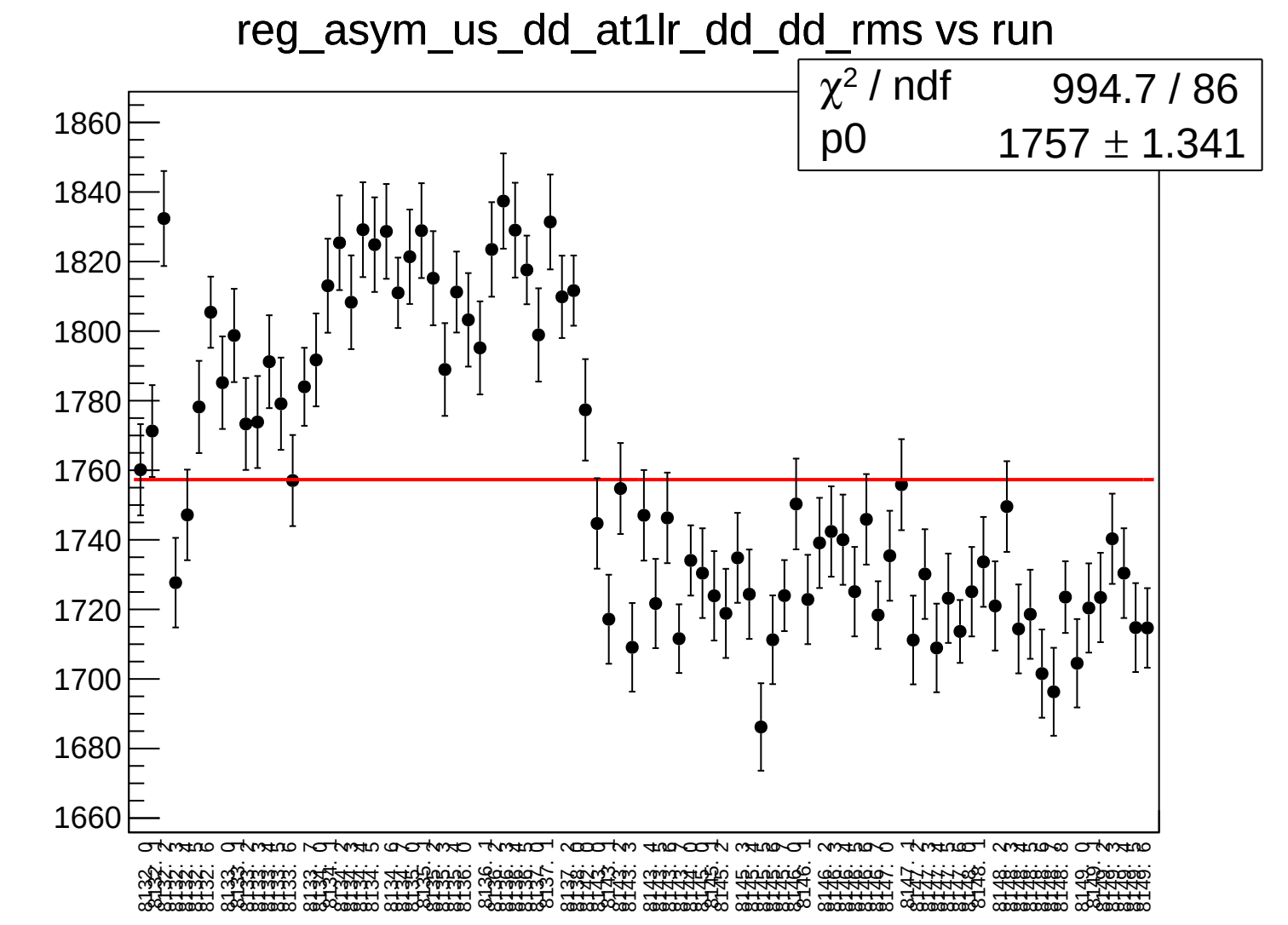

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.082e+05 / 86
p0 62.97 ± 0.05123
180
160
140
120
100
80
60
40
20

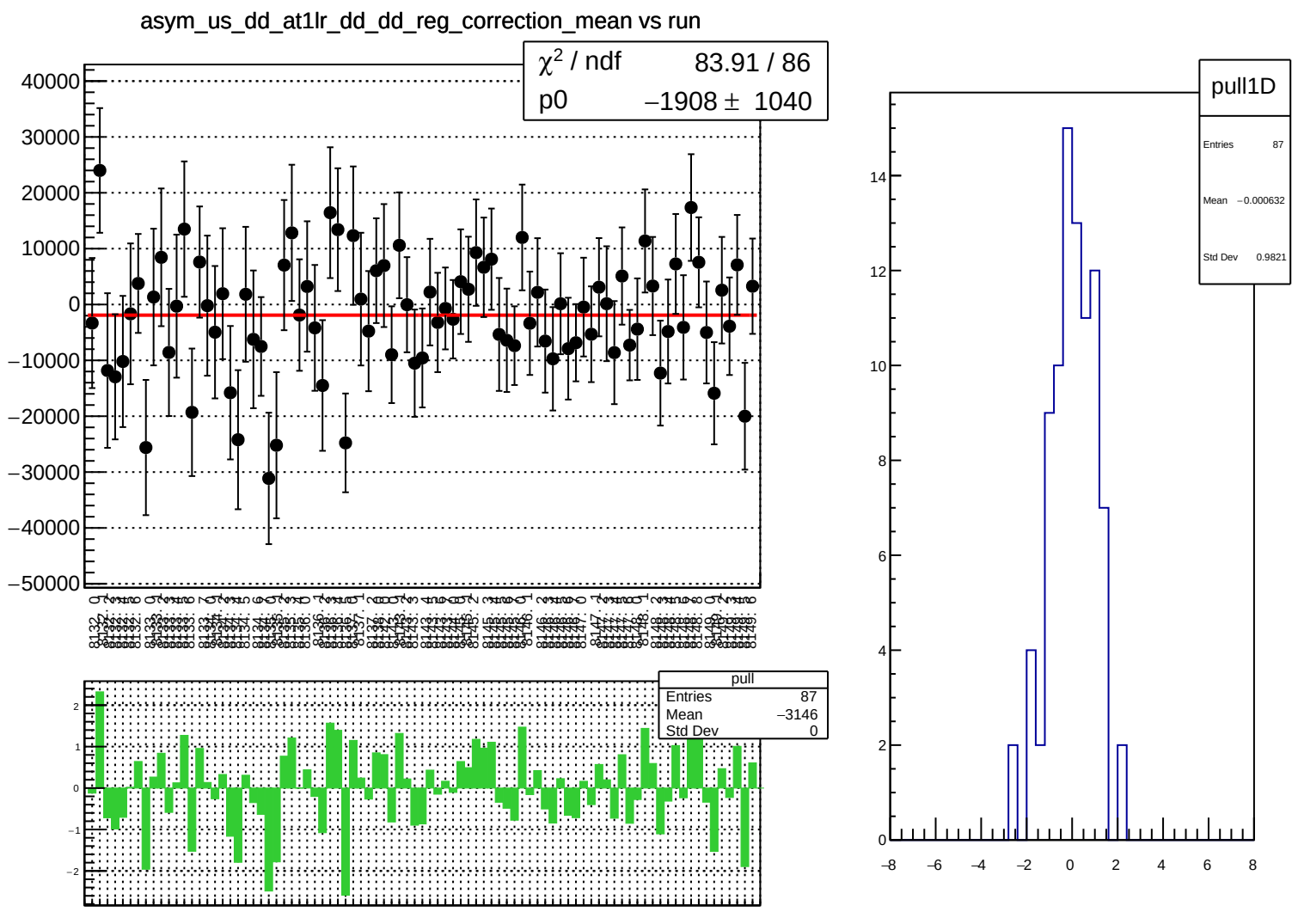

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.52 / 86
p0 −4.668e−14 ± 1.01e−13
pull
Entries 87
Mean 1.024
Std Dev 0
pull1D
Entries 87
Mean −0.08582
Std Dev 0.9461

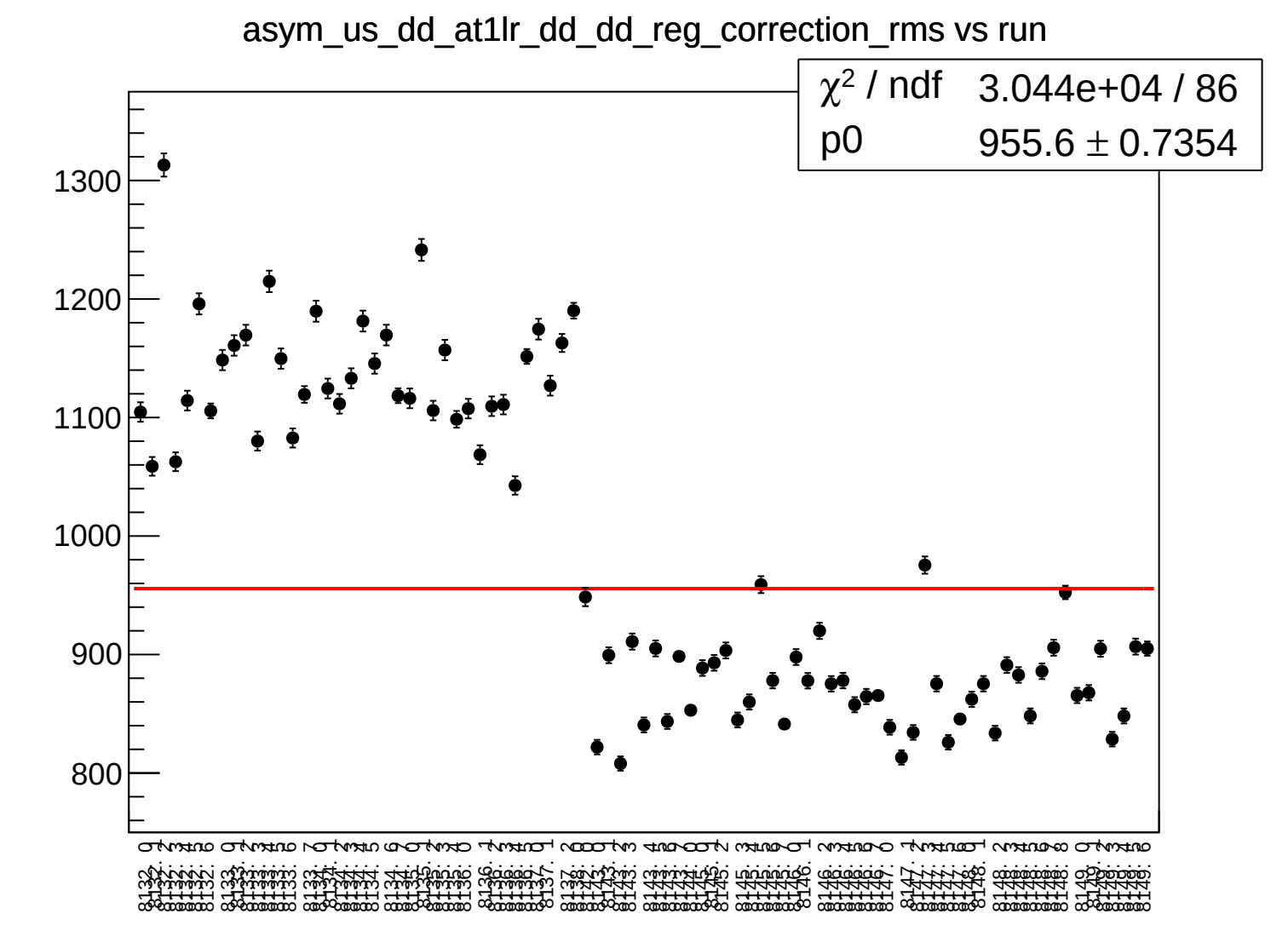

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.641e+05 / 86
p0 7.331e−11 ± 7.138e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

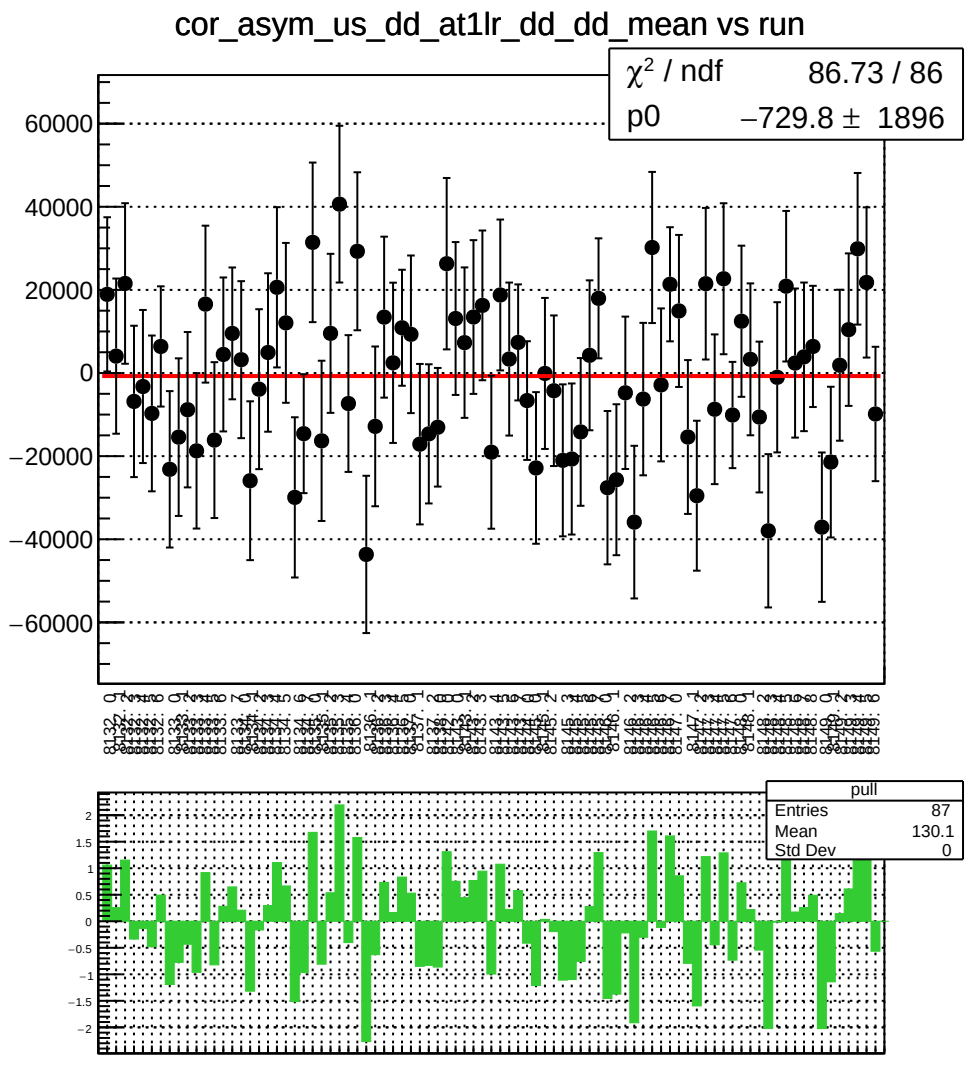

reg_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 86.73 / 86
p0 −729.6 ± 1896
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 130.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

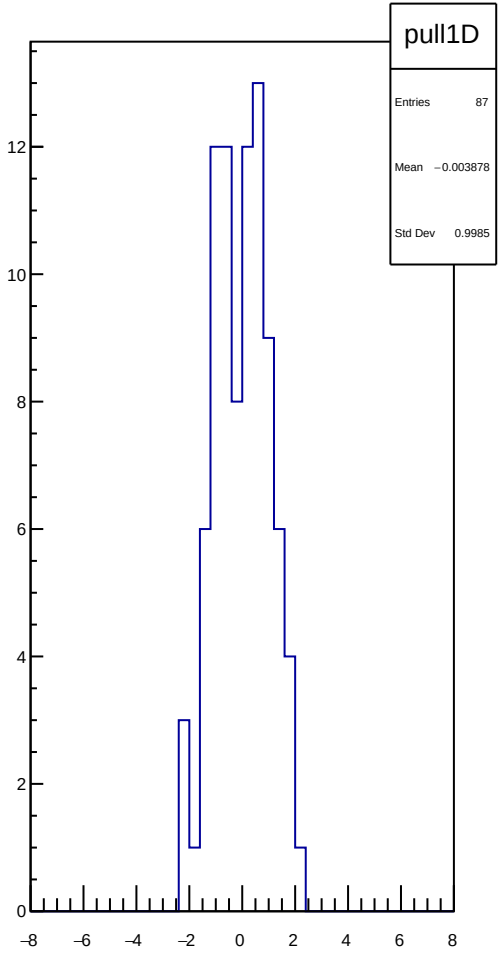

pull1D
Entries 87
Mean −0.003878
Std Dev 0.9985
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

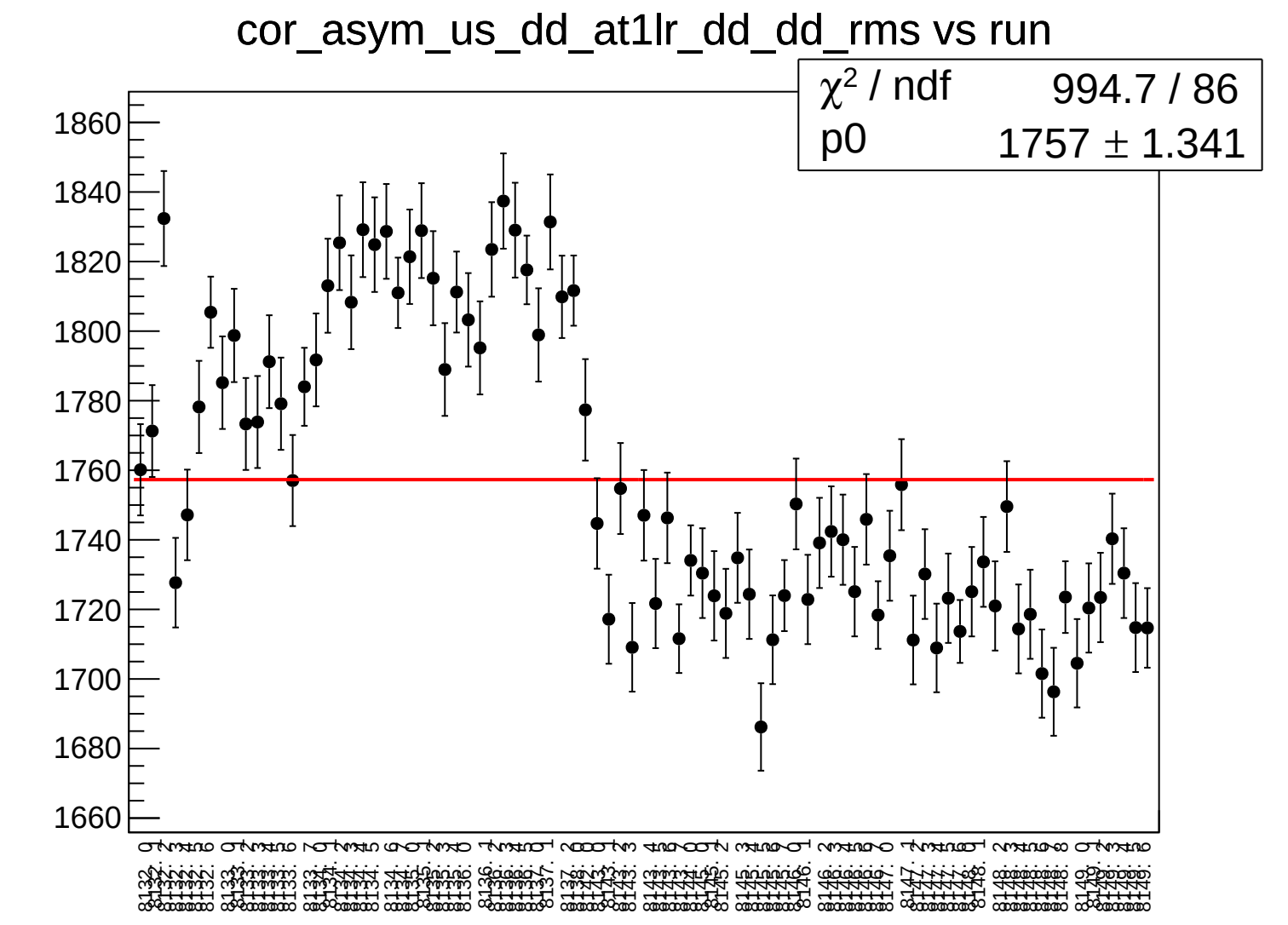

reg_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 994.7 / 86
p0 1757 ± 1.341
1860
1840
1820
1800
1780
1760
1740
1720
1700
1680
1660

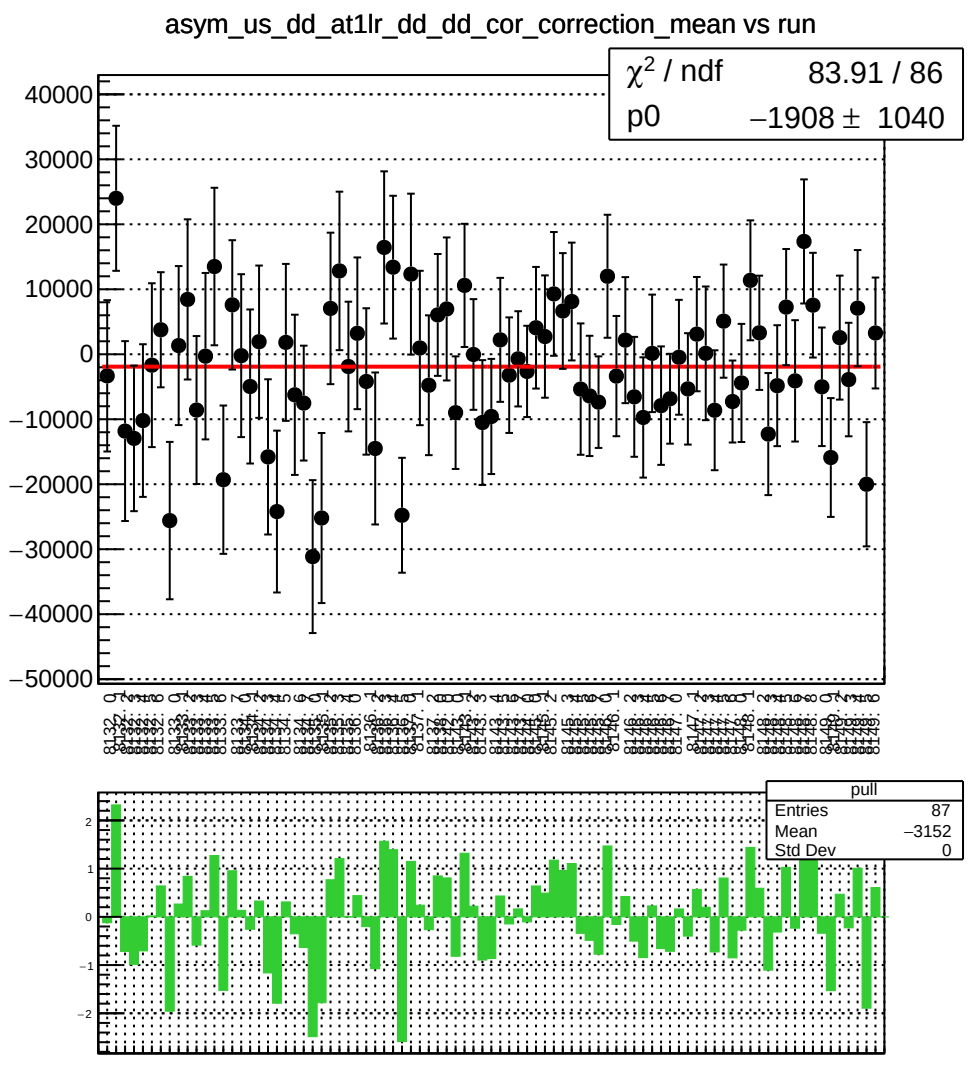

asym_us_dd_at1lr_dd_dd_reg_correction_mean vs run
χ² / ndf 83.91 / 86
p0 −1908 ± 1040
pull
Entries 87
Mean −3146
Std Dev 0
pull1D
Entries 87
Mean −0.000632
Std Dev 0.9821

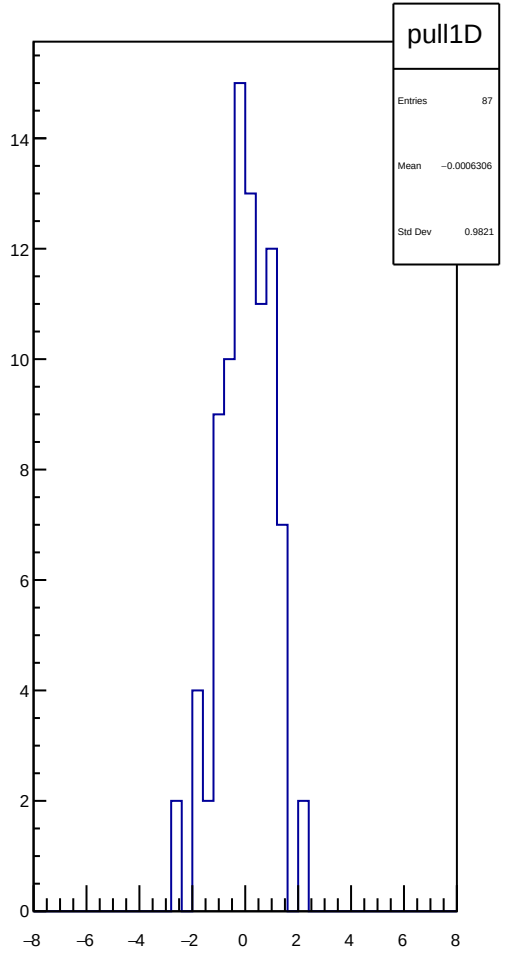

asym_us_dd_at1lr_dd_dd_reg_correction_rms vs run
χ² / ndf 3.044e+04 / 86
p0 955.6 ± 0.7354
1300
1200
1100
1000
900
800

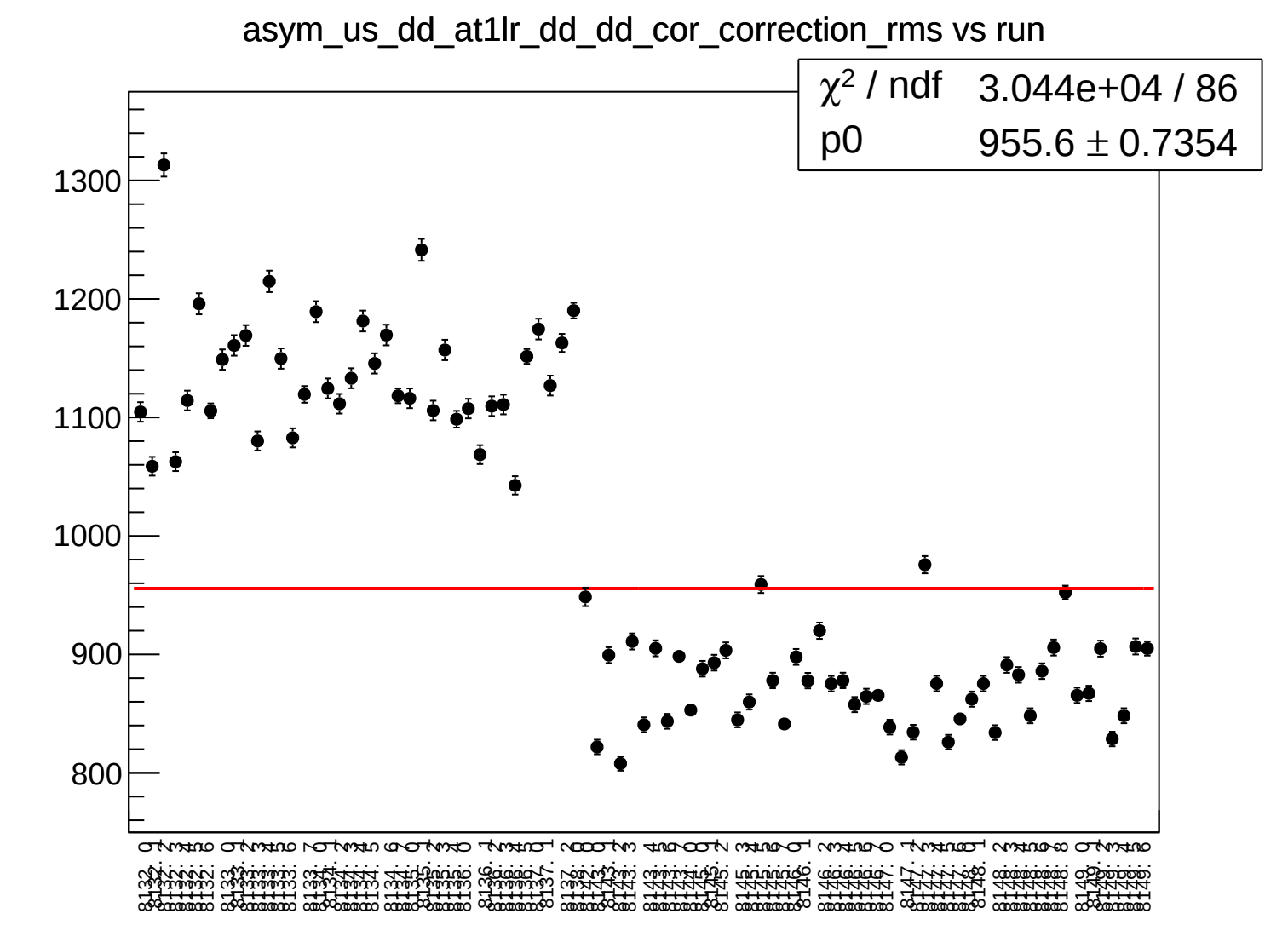

cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 86.73 / 86
p0 −729.8 ± 1896
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 130.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

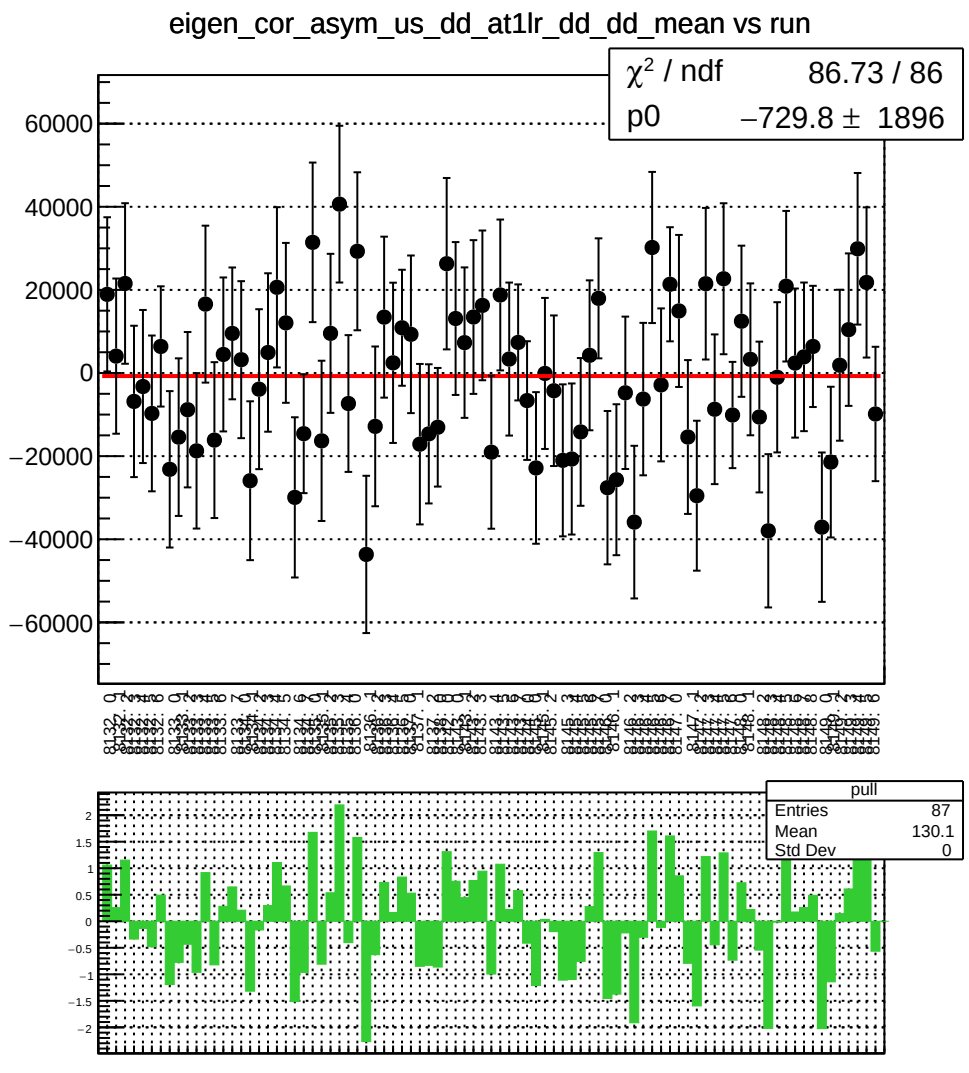

pull1D
Entries 87
Mean −0.003878
Std Dev 0.9985
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

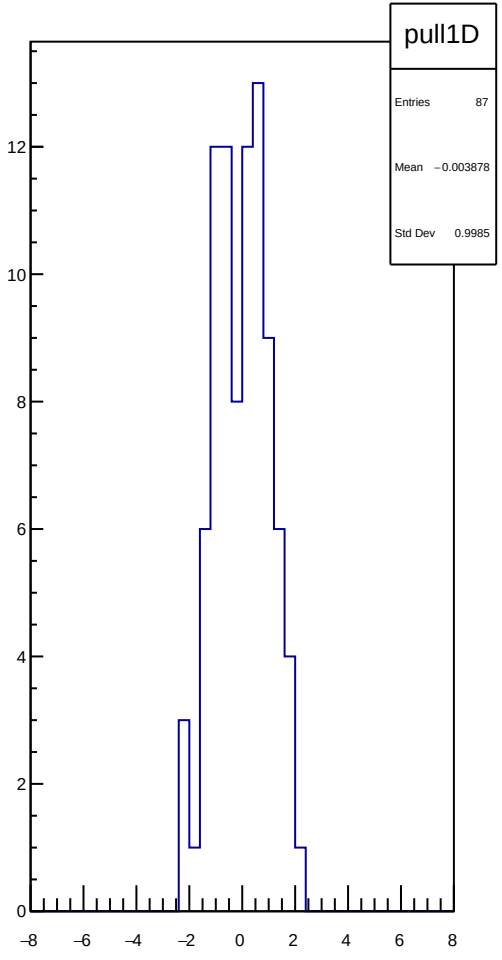

cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 994.7 / 86
p0 1757 ± 1.341
1860
1840
1820
1800
1780
1760
1740
1720
1700
1680
1660

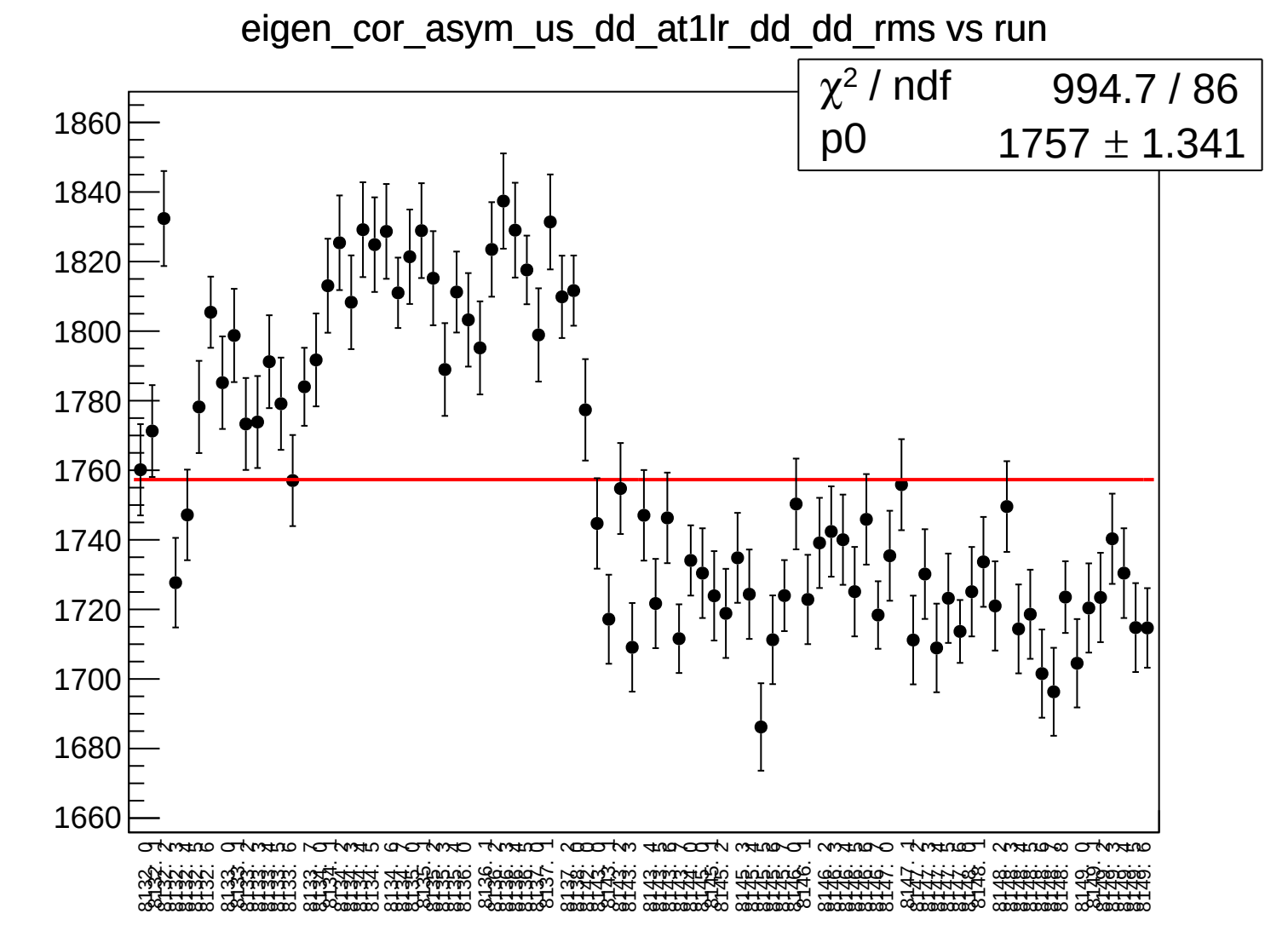

asym_us_dd_at1lr_dd_dd_cor_correction_mean vs run
χ² / ndf 83.91 / 86
p0 −1908 ± 1040
pull
Entries 87
Mean −3152
Std Dev 0

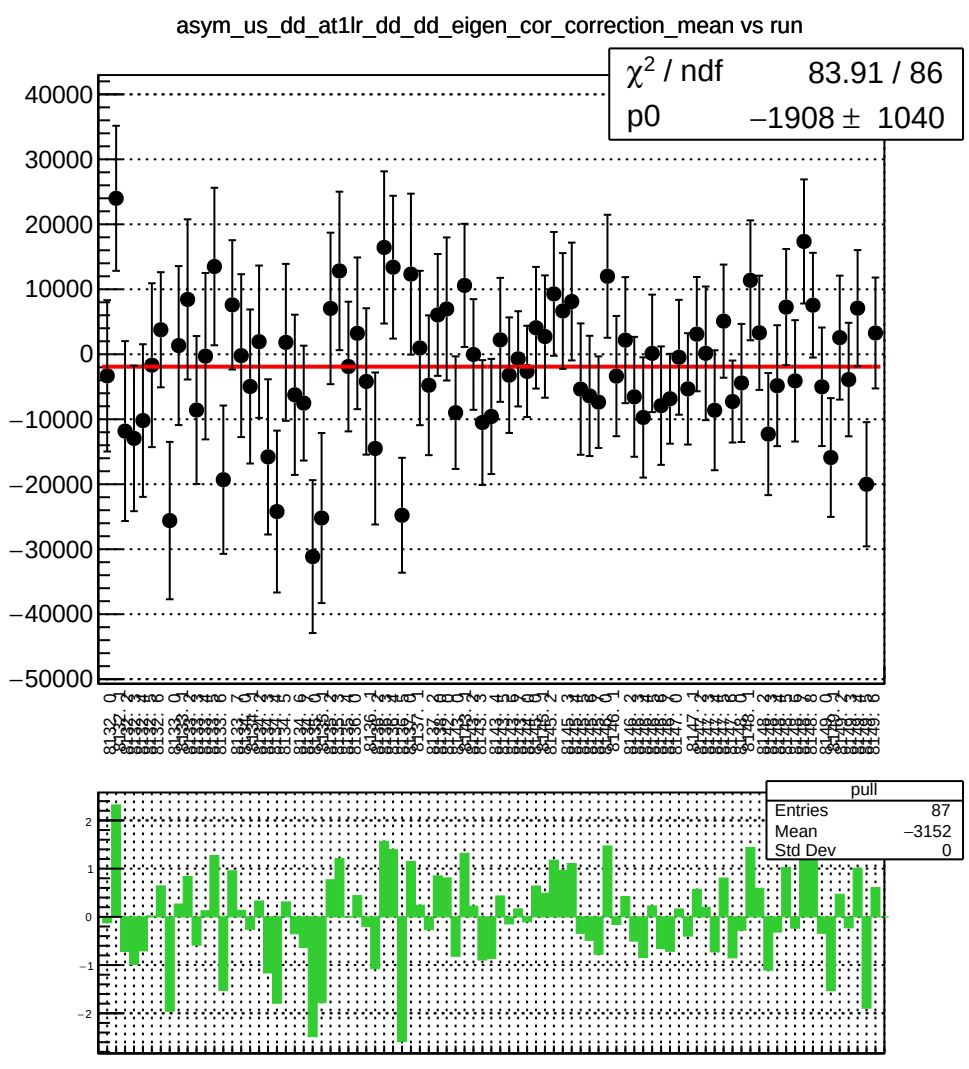

pull1D
Entries 87
Mean −0.0006306
Std Dev 0.9821

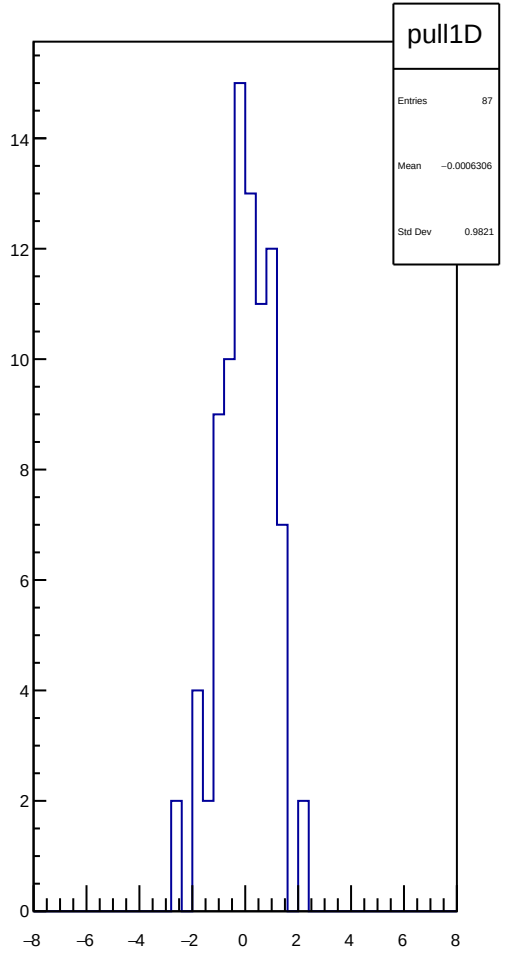

asym_us_dd_at1lr_dd_dd_cor_correction_rms vs run
χ² / ndf 3.044e+04 / 86
p0 955.6 ± 0.7354
1300
1200
1100
1000
900
800

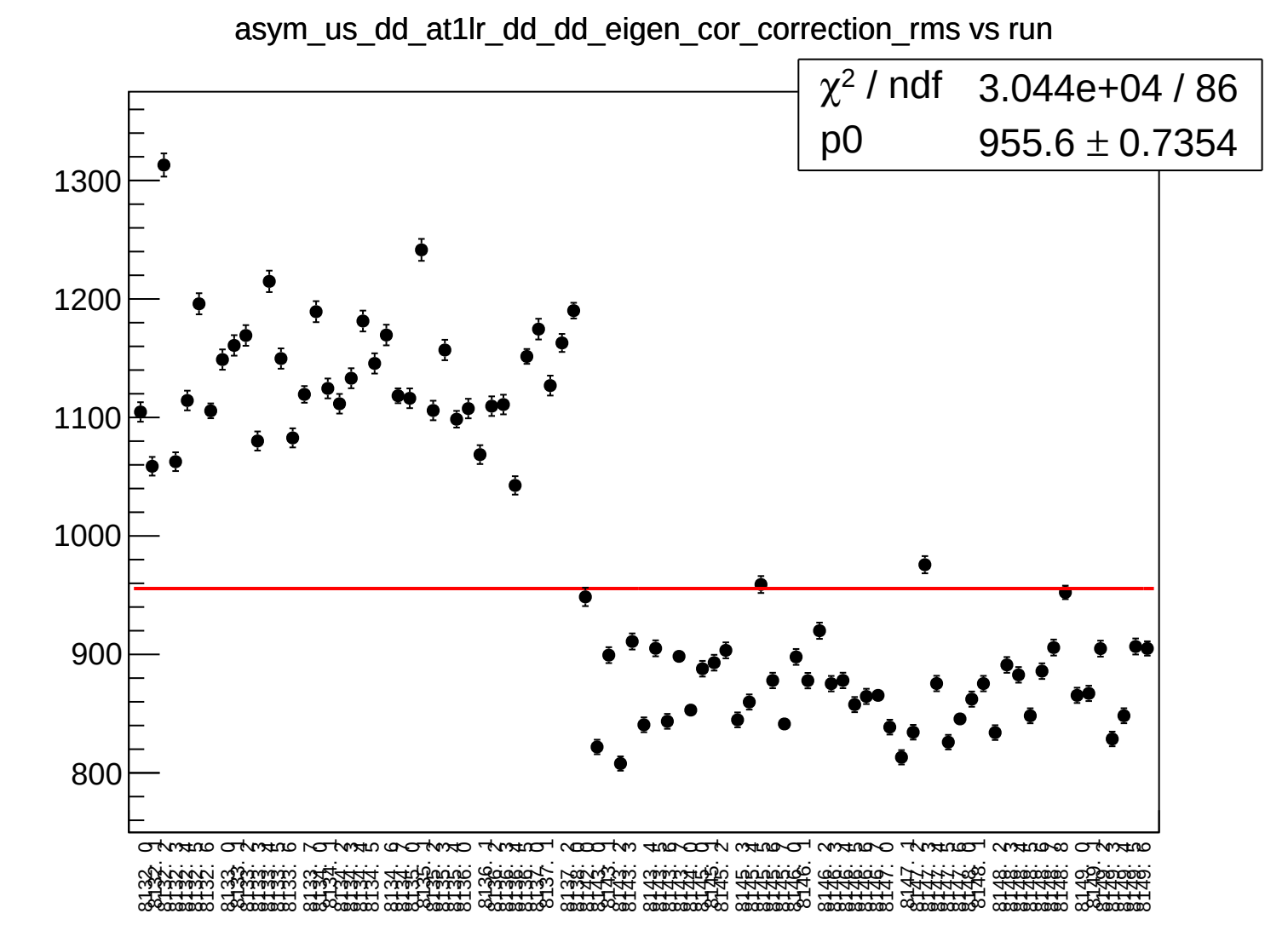

eigen_cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 86.73 / 86
p0 −729.8 ± 1896
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 130.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

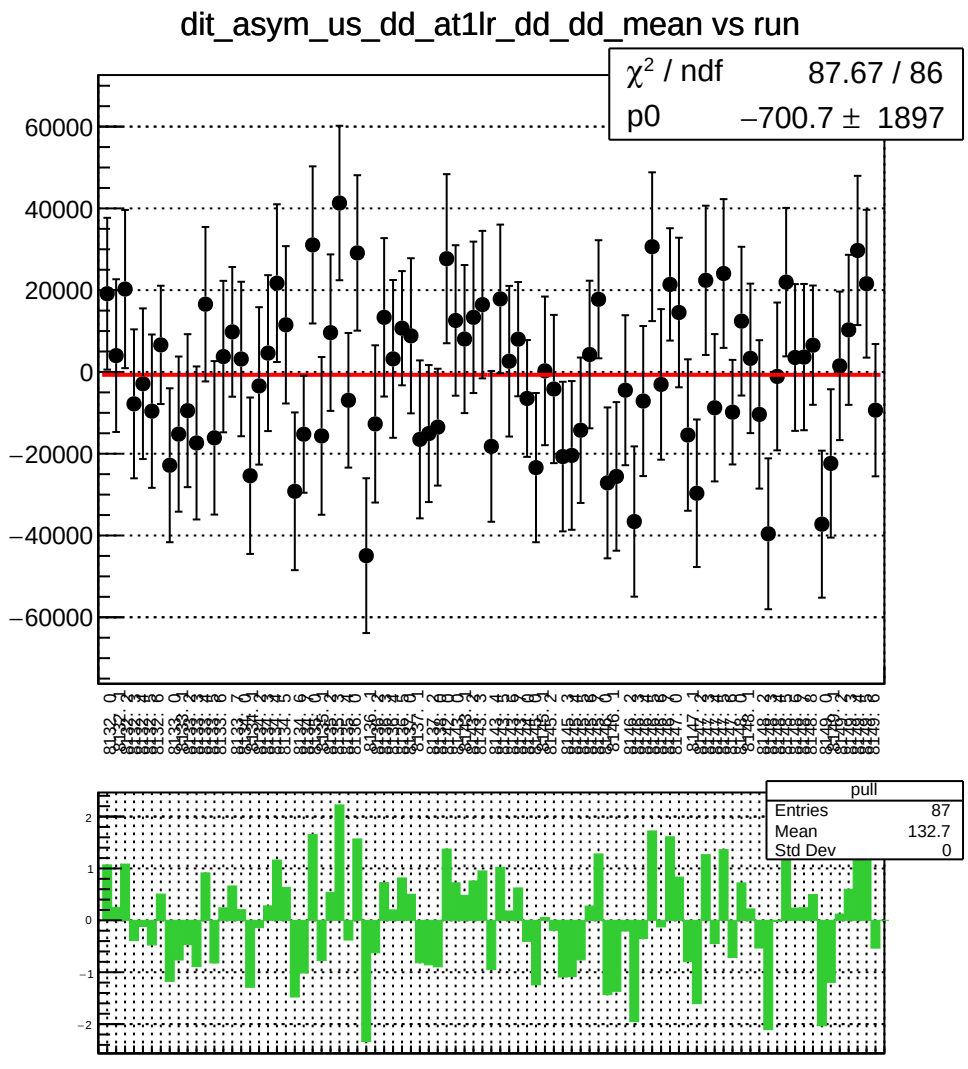

pull1D
Entries 87
Mean −0.003878
Std Dev 0.9985
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

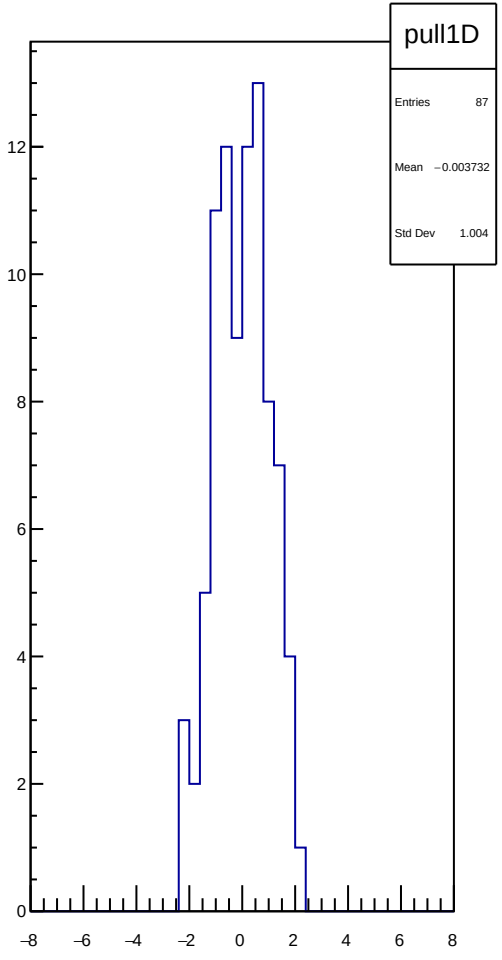

eigen_cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 994.7 / 86
p0 1757 ± 1.341
1860
1840
1820
1800
1780
1760
1740
1720
1700
1680
1660

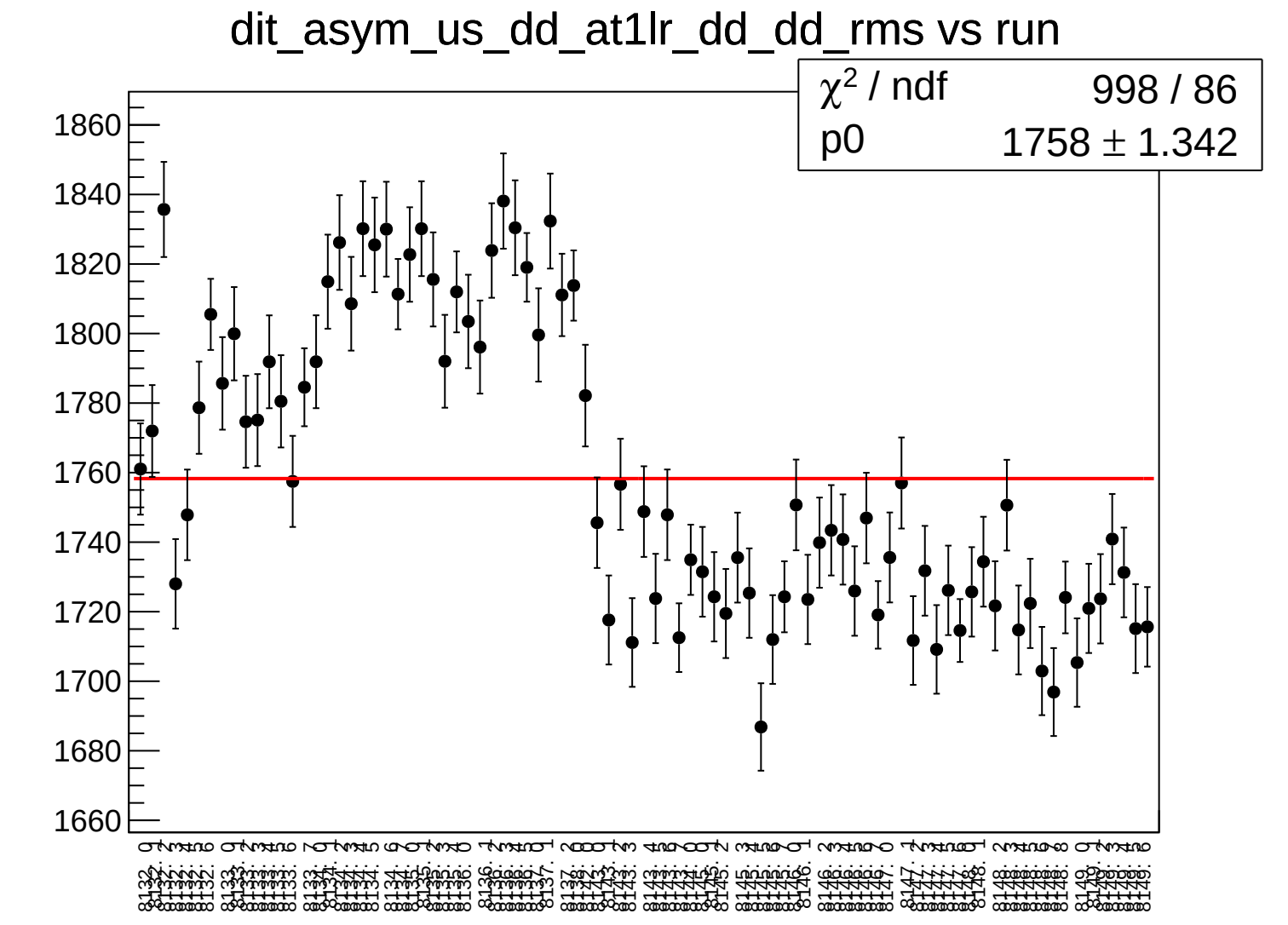

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 83.91 / 86
p0 −1908 ± 1040
pull
Entries 87
Mean −3152
Std Dev 0

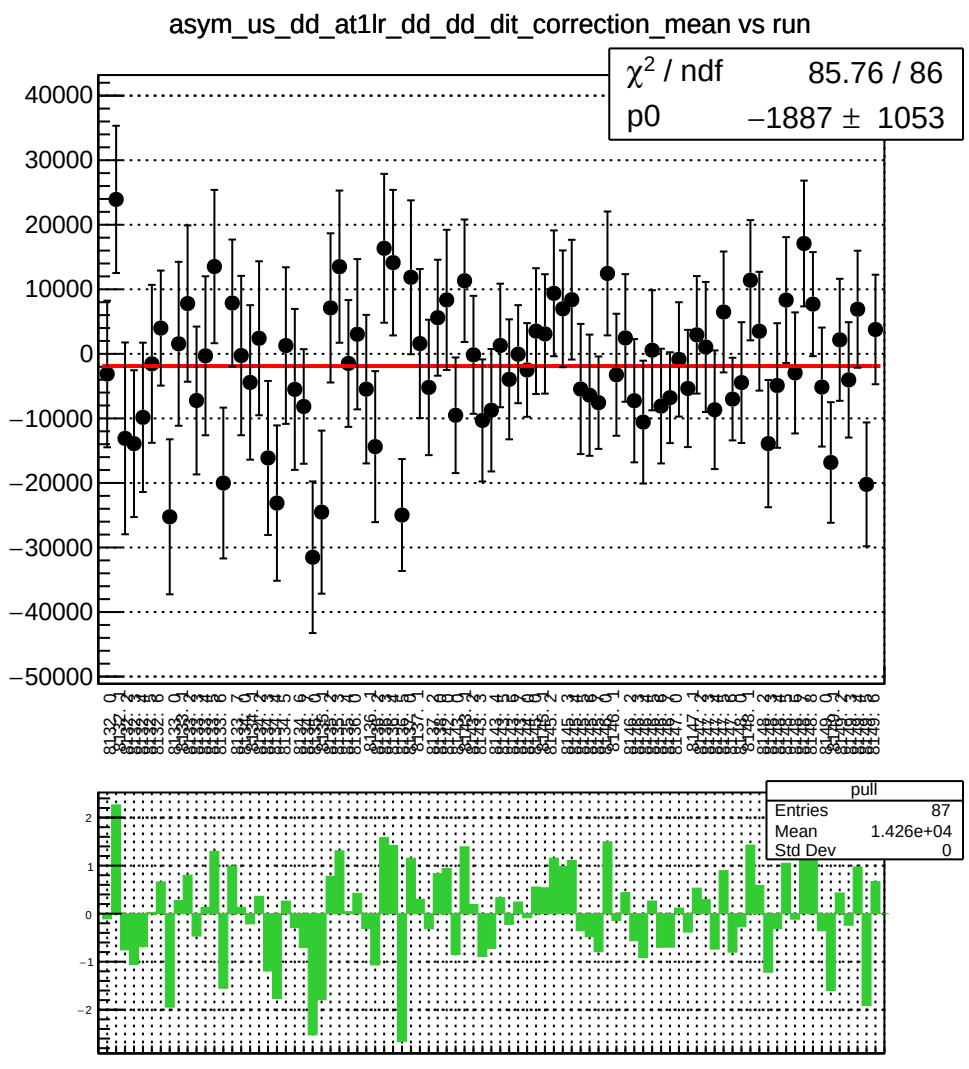

pull1D
Entries 87
Mean −0.0006306
Std Dev 0.9821

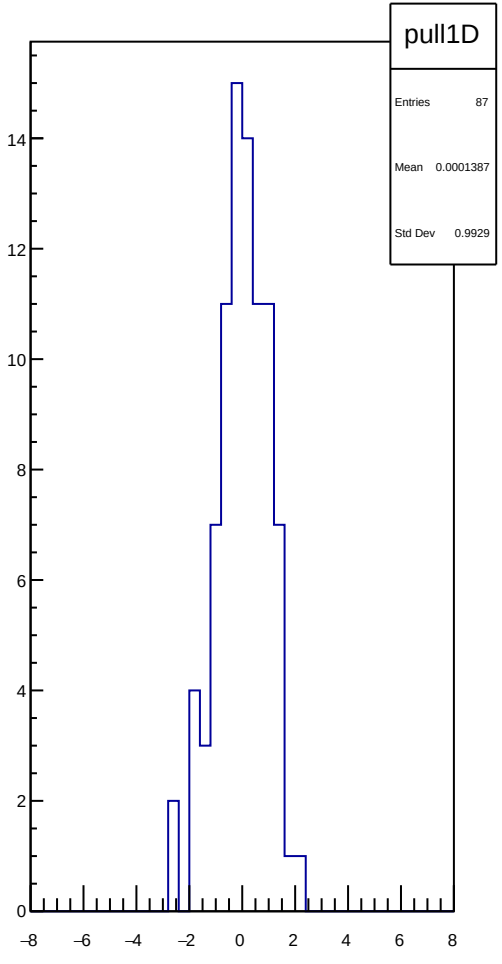

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.044e+04 / 86
p0 955.6 ± 0.7354
1300
1200
1100
1000
900
800

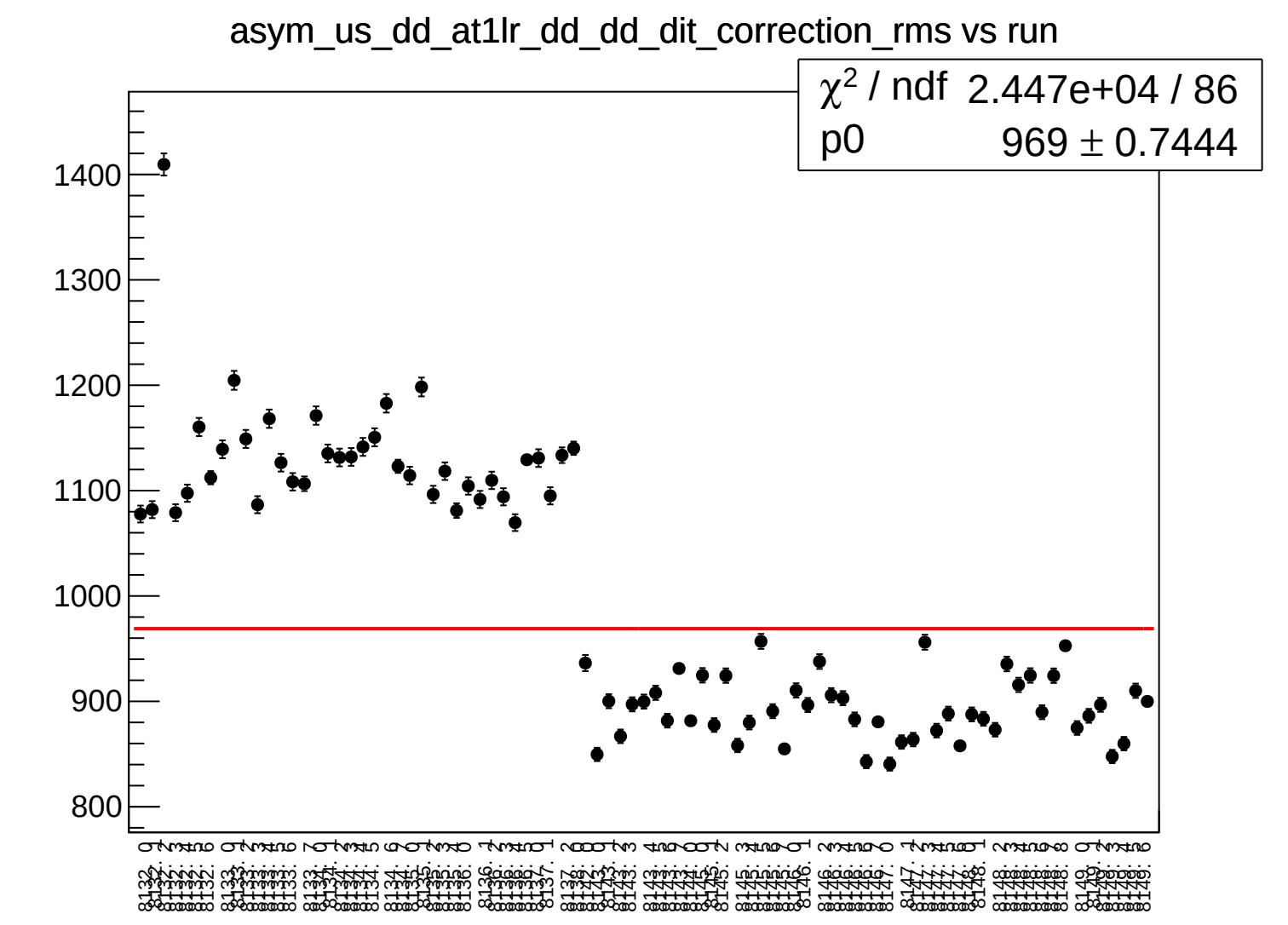

dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 87.67 / 86
p0 −700.7 ± 1897
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 132.7
Std Dev 0
2
1
0
−1
−2

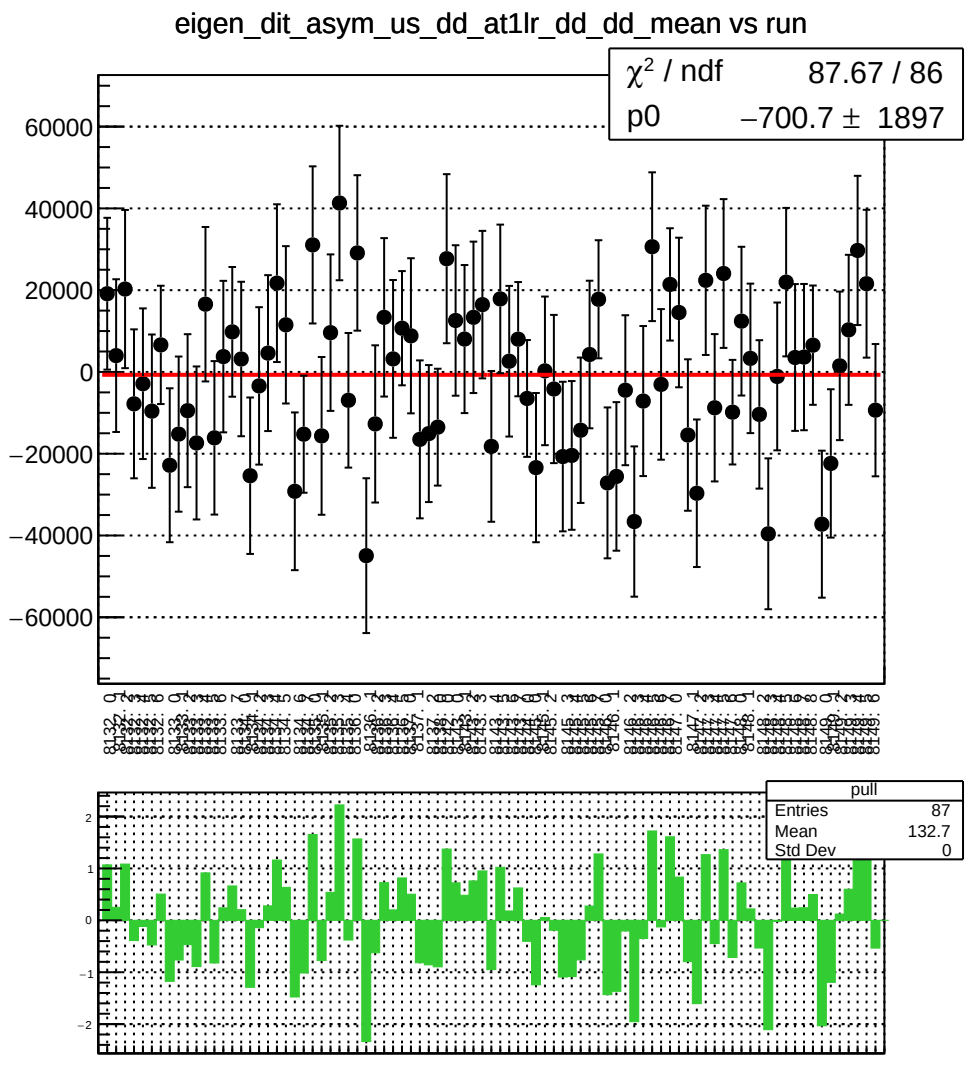

pull1D
Entries 87
Mean −0.003732
Std Dev 1.004
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

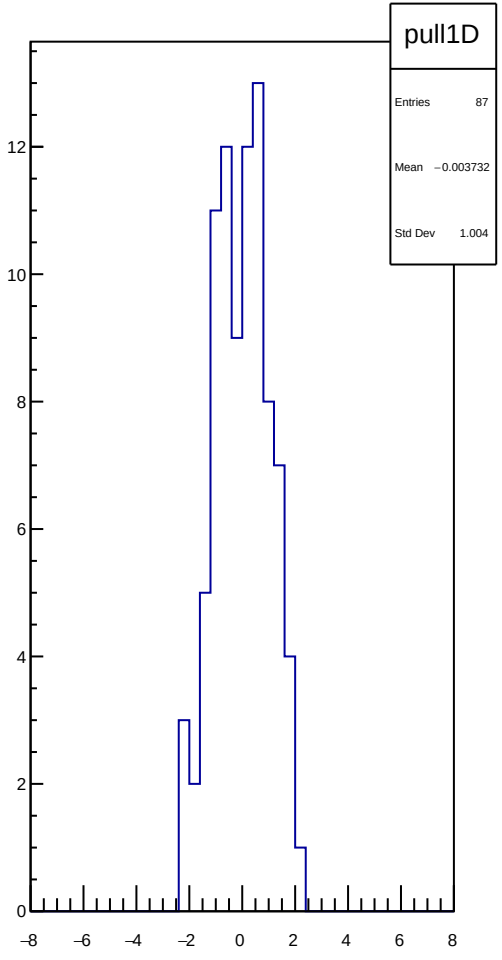

dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ^2 / ndf 998 / 86
p0 1758 ± 1.342
1860
1840
1820
1800
1780
1760
1740
1720
1700
1680
1660

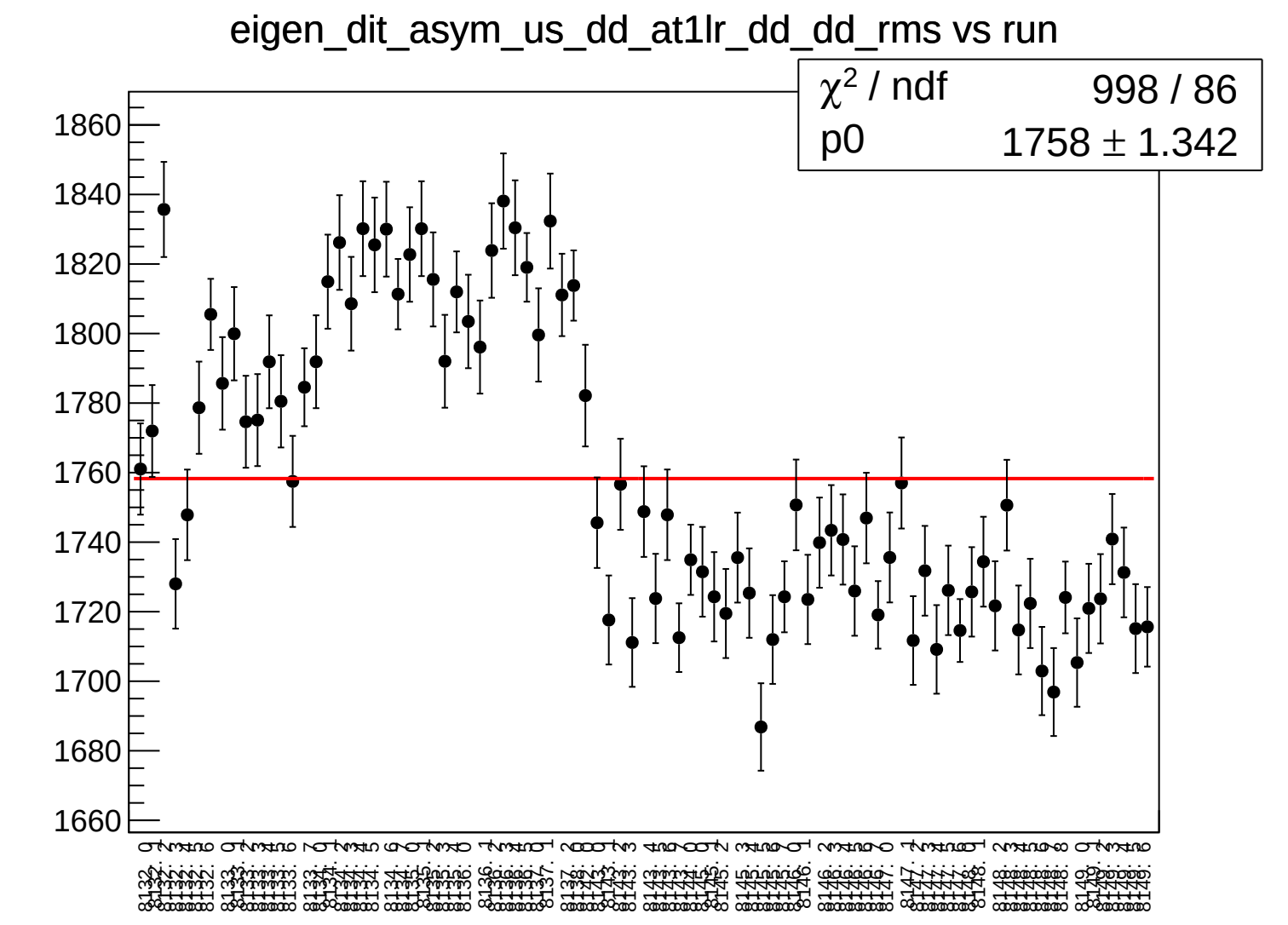

asym_us_dd_at1lr_dd_dd_dit_correction_mean vs run
χ² / ndf 85.76 / 86
p0 −1887 ± 1053
pull
Entries 87
Mean 1.426e+04
Std Dev 0

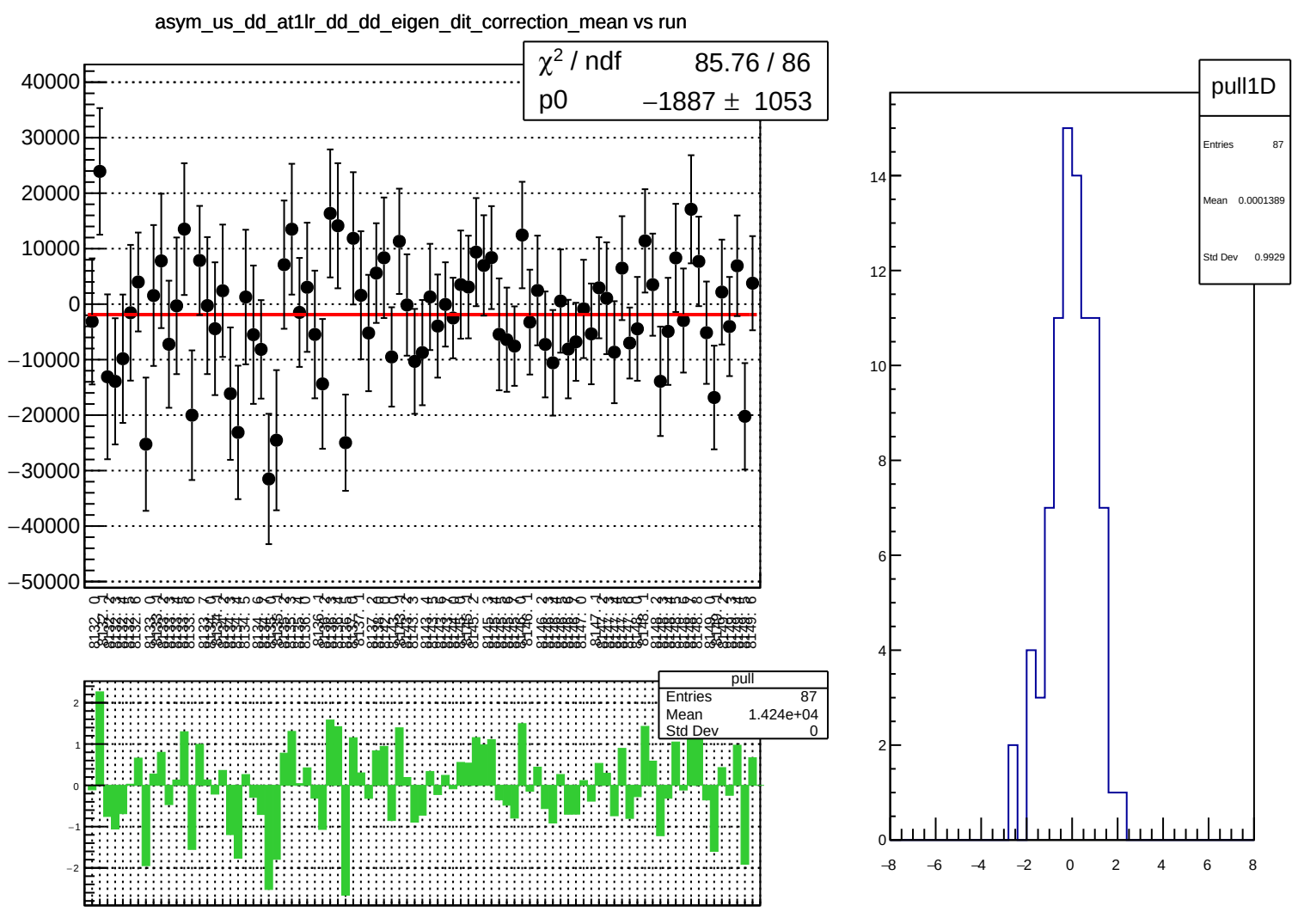

pull1D
Entries 87
Mean 0.0001387
Std Dev 0.9929

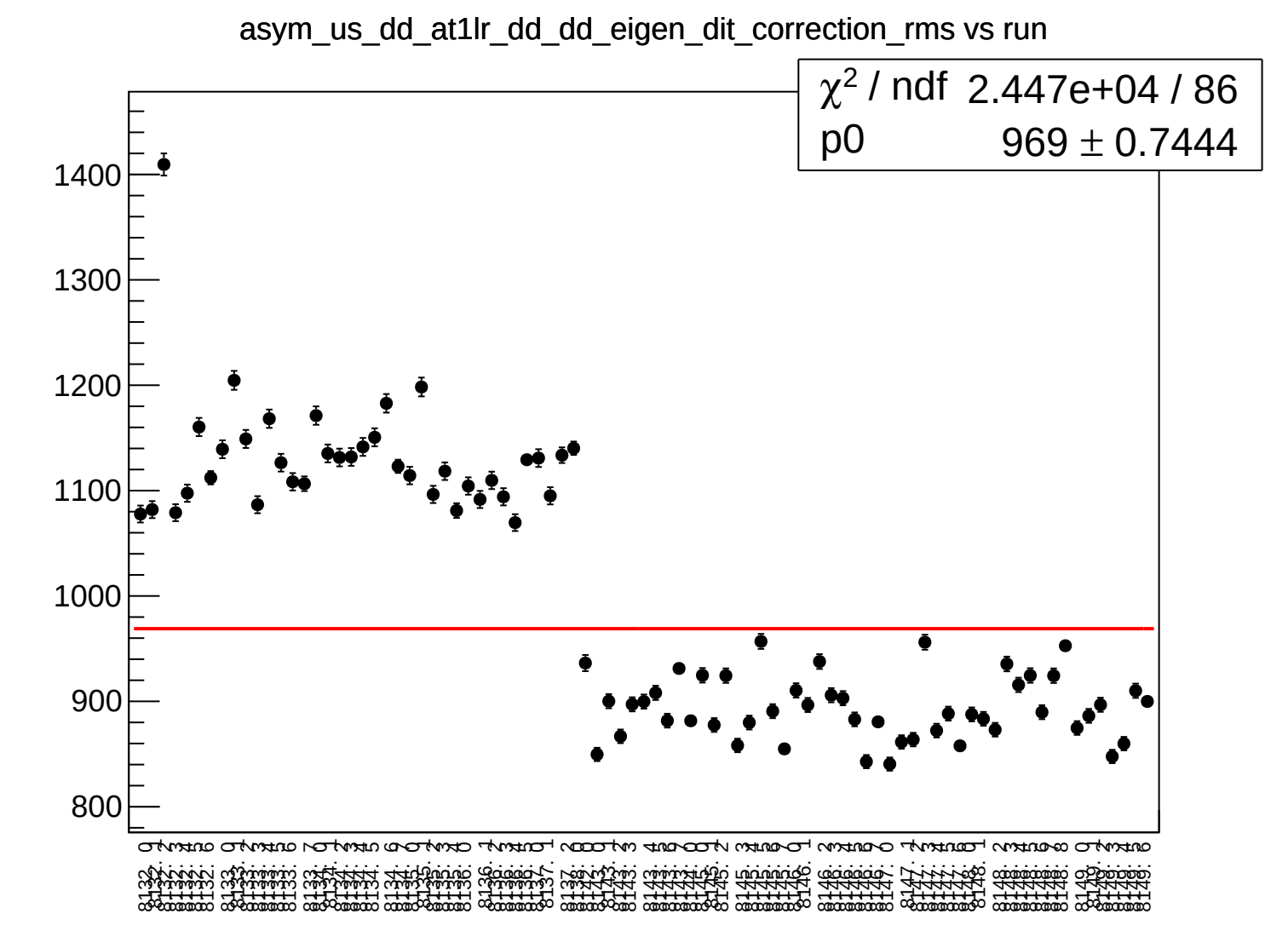

asym_us_dd_at1lr_dd_dd_dit_correction_rms vs run
χ² / ndf 2.447e+04 / 86
p0 969 ± 0.7444
1400
1300
1200
1100
1000
900
800

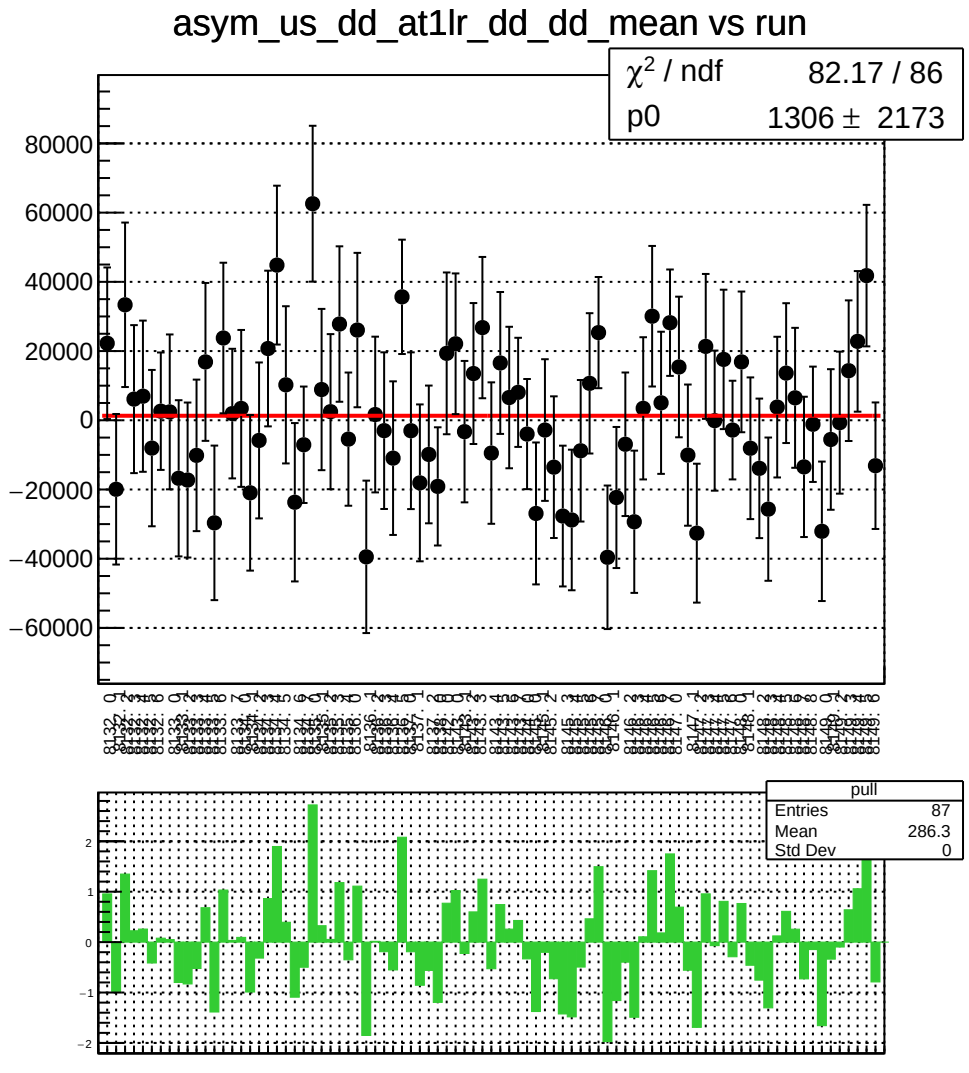

eigen_dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 87.67 / 86
p0 −700.7 ± 1897
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 132.7
Std Dev 0
2
1
0
−1
−2

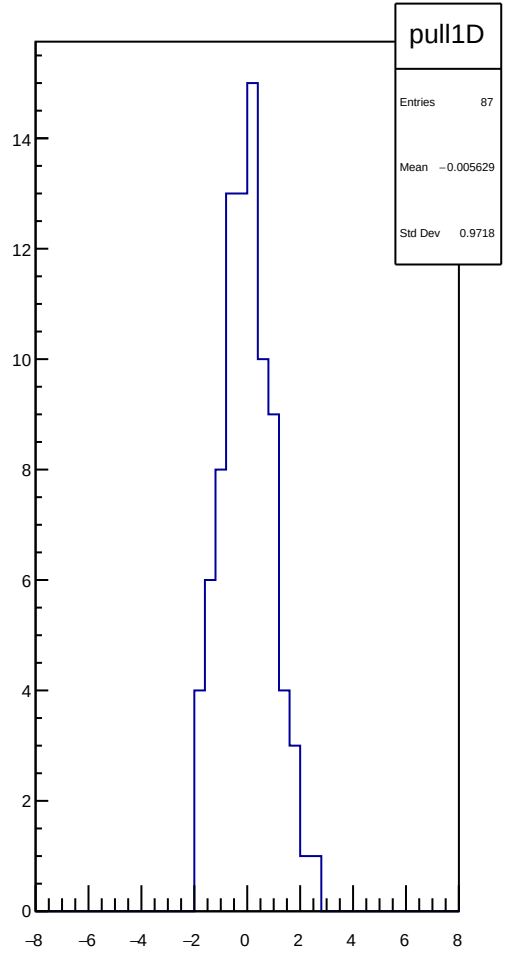

pull1D
Entries 87
Mean −0.003732
Std Dev 1.004
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

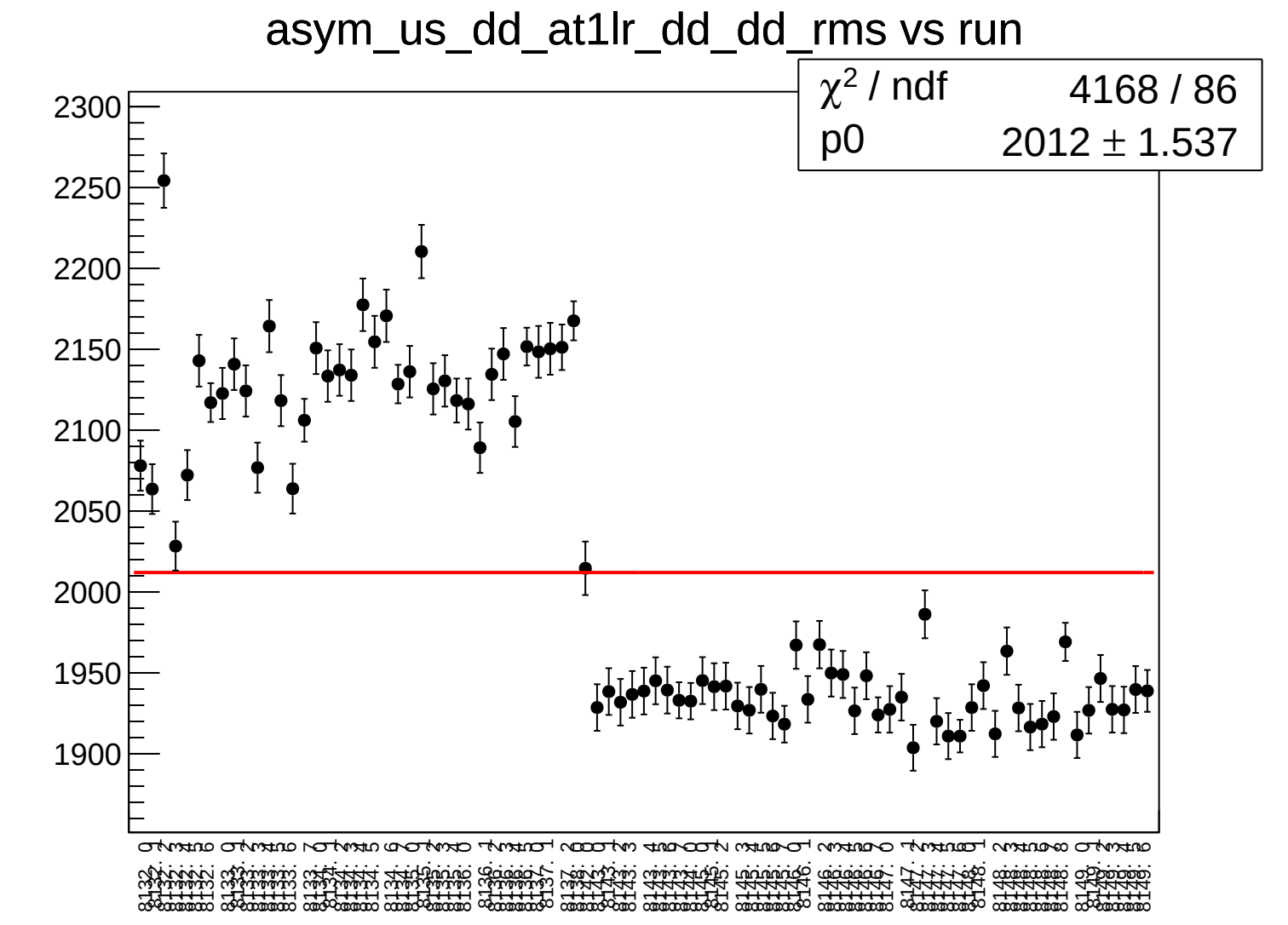

eigen_dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 998 / 86
p0 1758 ± 1.342
1860
1840
1820
1800
1780
1760
1740
1720
1700
1680
1660

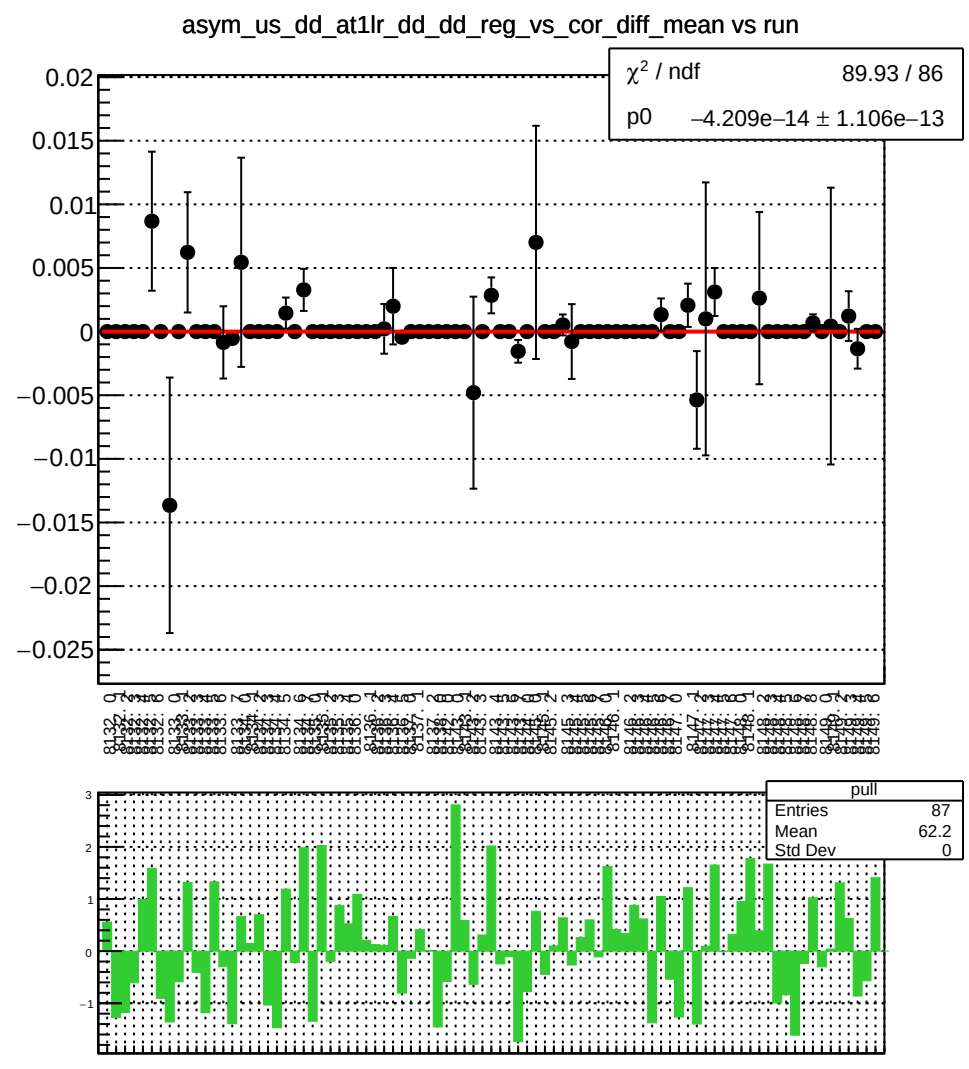

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 85.76 / 86
p0 −1887 ± 1053
pull
Entries 87
Mean 1.424e+04
Std Dev 0
pull1D
Entries 87
Mean 0.0001389
Std Dev 0.9929

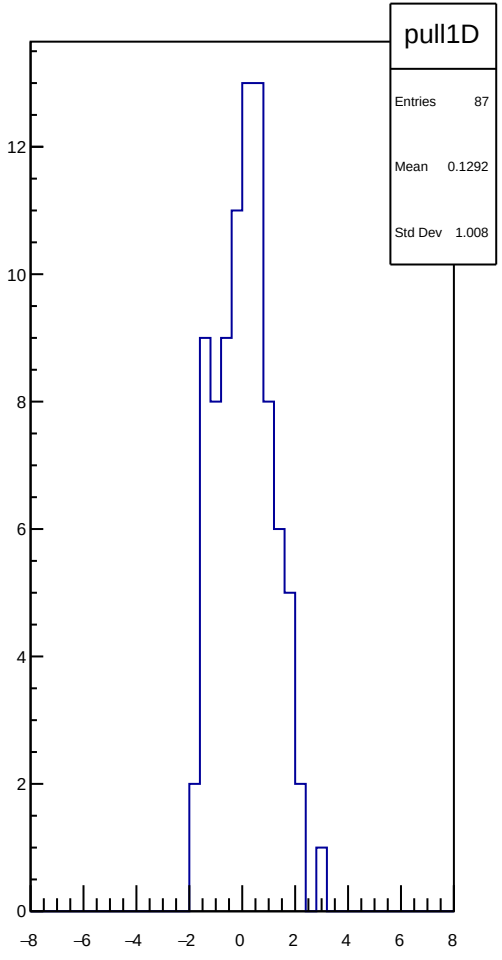

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.447e+04 / 86
p0 969 ± 0.7444
1400
1300
1200
1100
1000
900
800

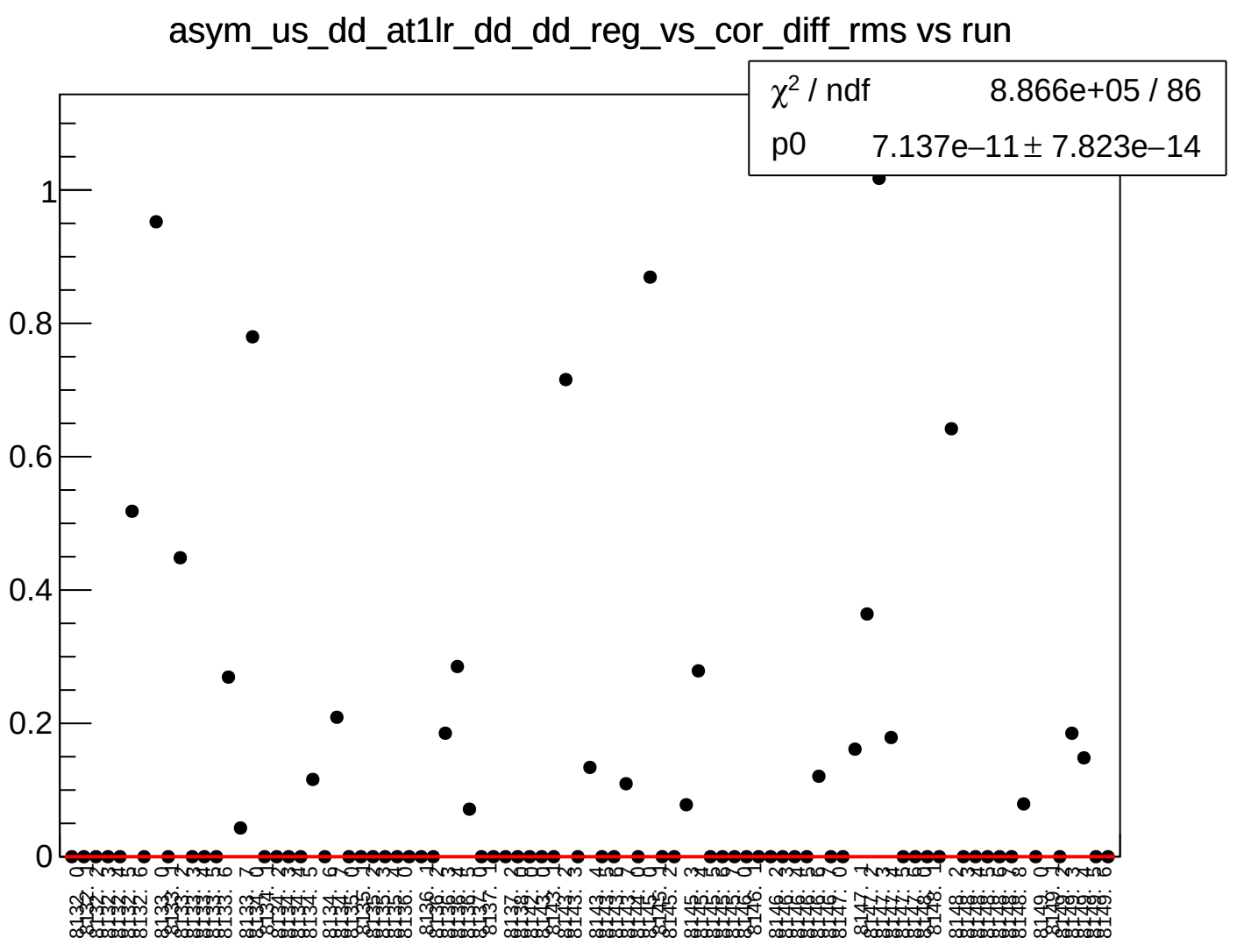

asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 82.17 / 86
p0 1306 ± 2173
pull
Entries 87
Mean 286.3
Std Dev 0

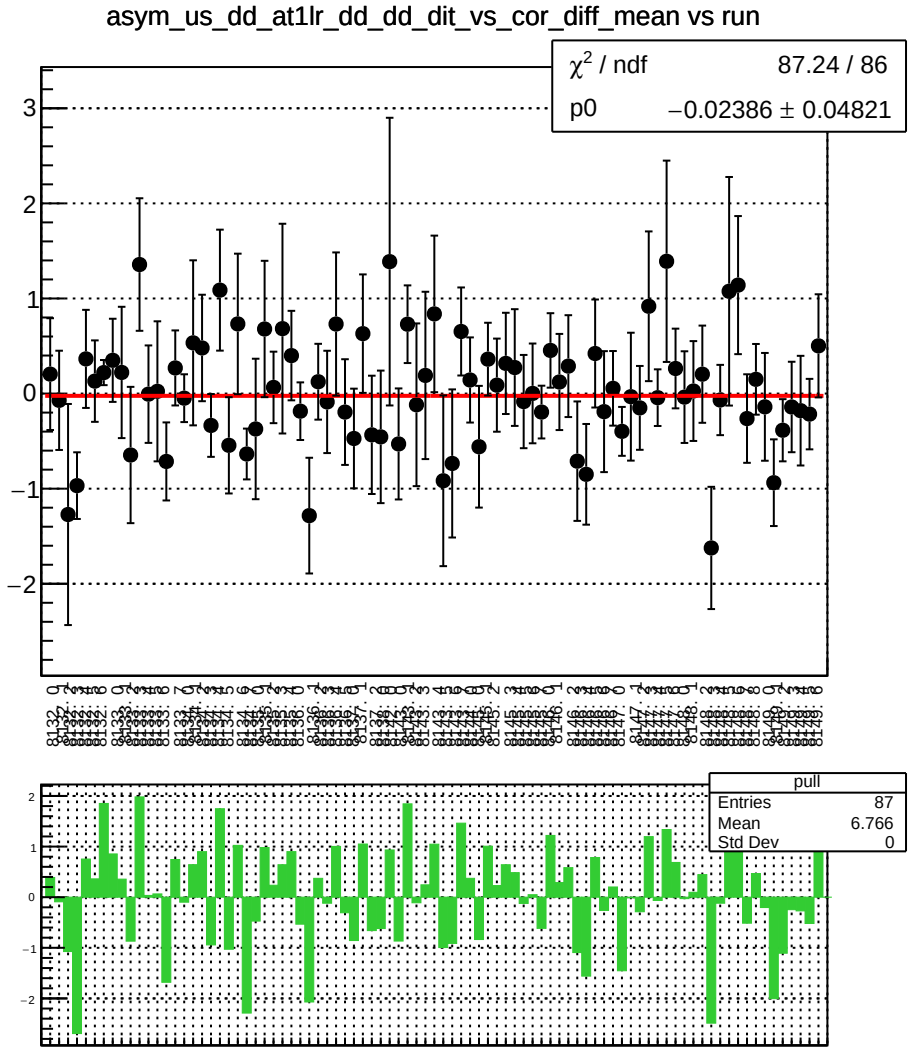

pull1D
Entries 87
Mean −0.005629
Std Dev 0.9718

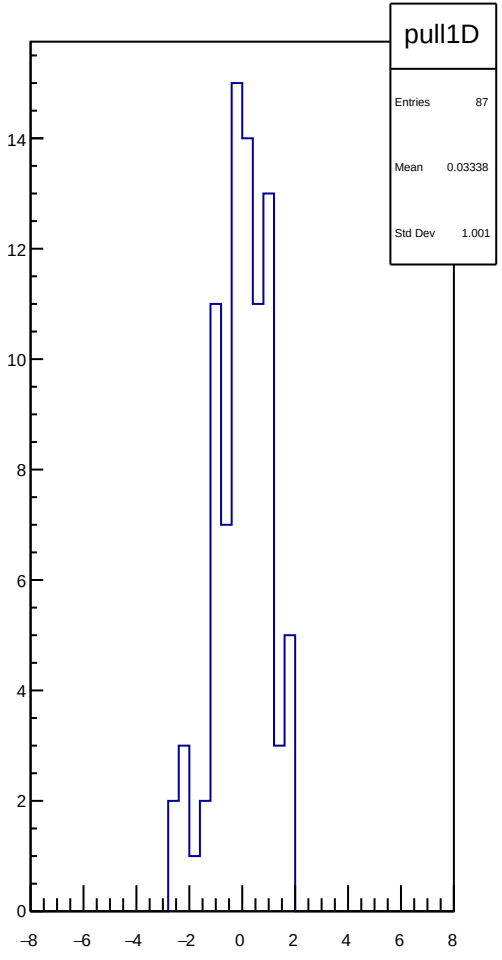

asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 4168 / 86
p0 2012 ± 1.537
2300
2250
2200
2150
2100
2050
2000
1950
1900

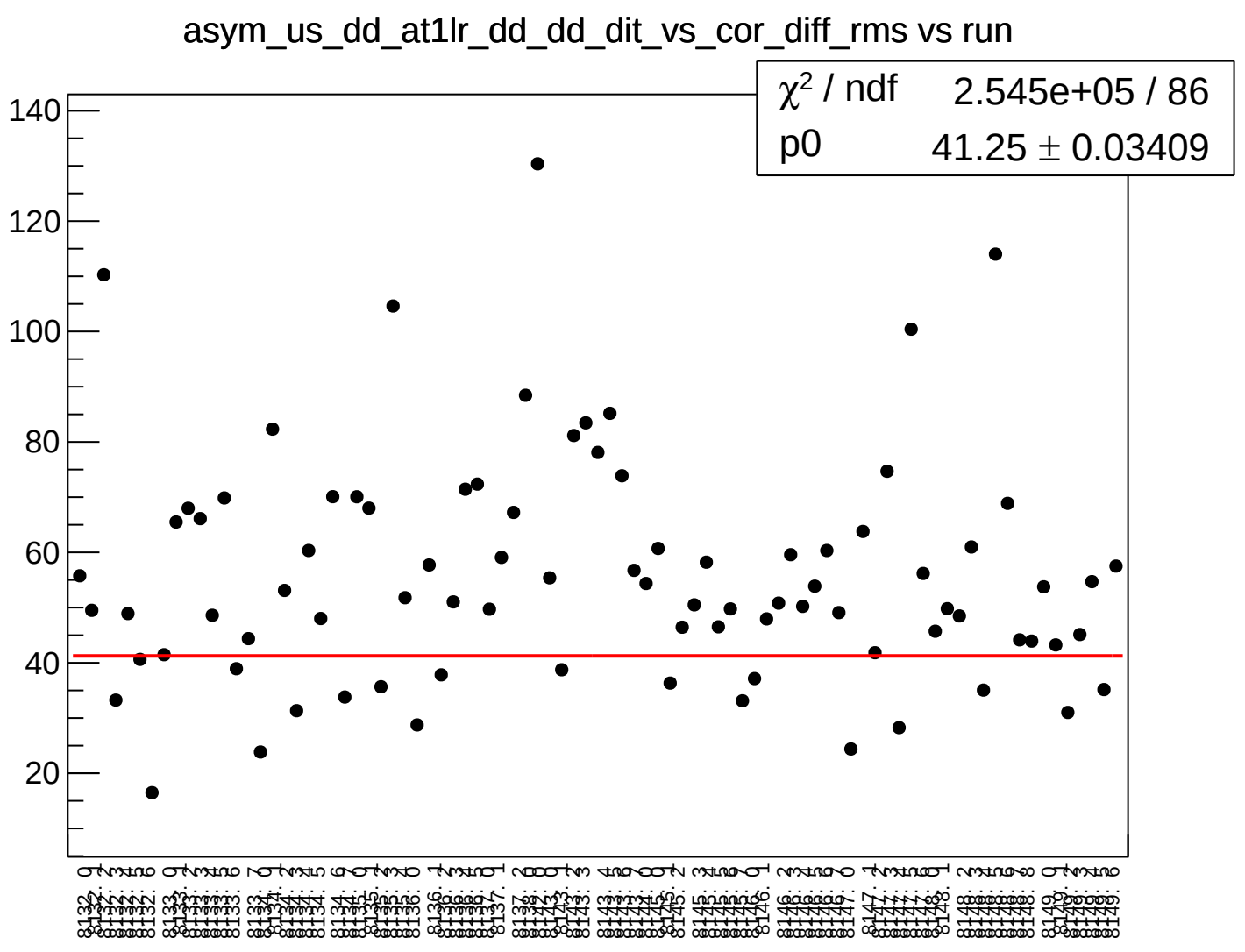

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 89.93 / 86
p0 −4.209e−14 ± 1.106e−13
pull
Entries 87
Mean 62.2
Std Dev 0

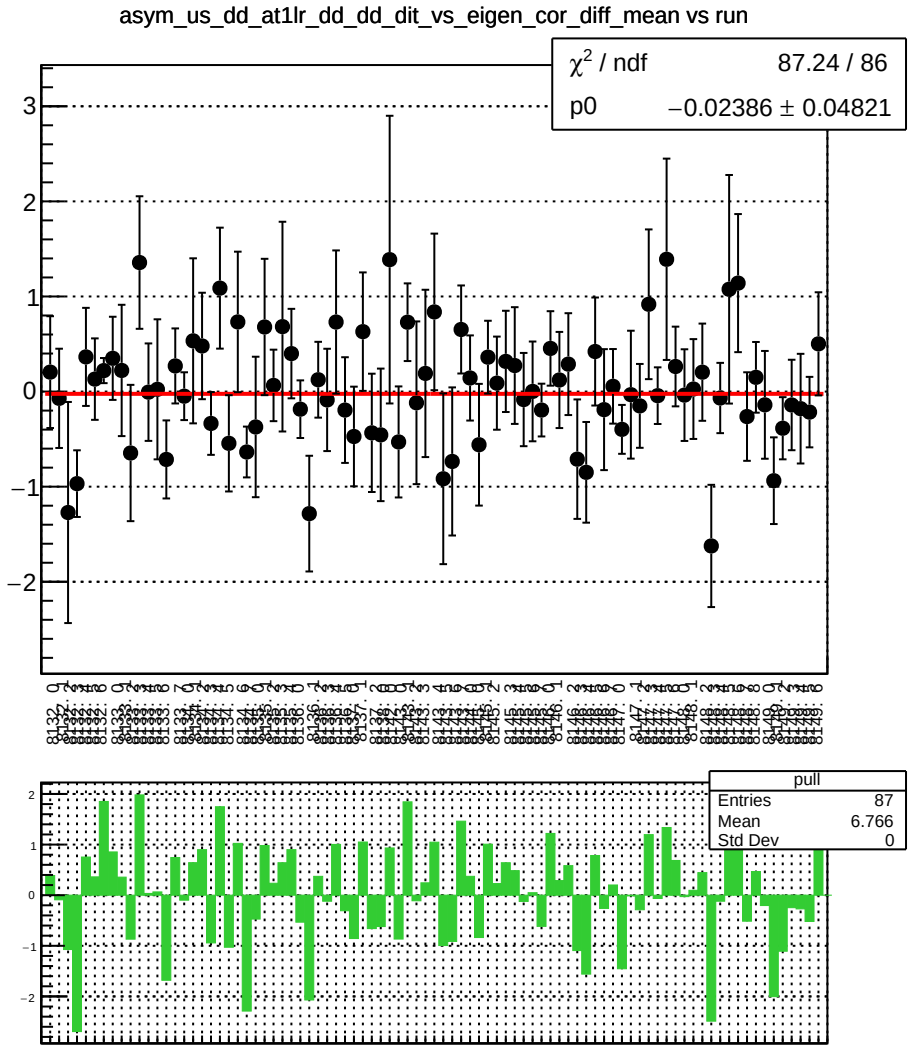

pull1D
Entries 87
Mean 0.1292
Std Dev 1.008

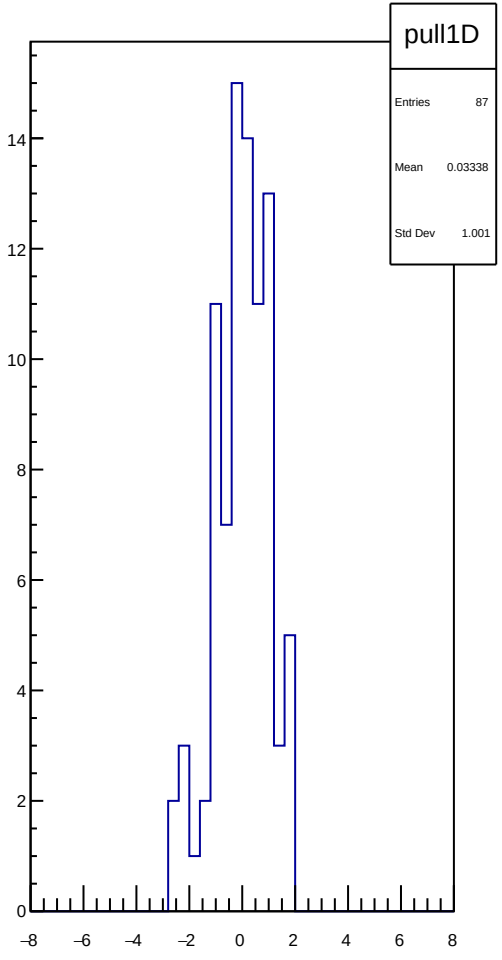

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.866e+05 / 86
p0 7.137e−11 ± 7.823e−14
1
0.8
0.6
0.4
0.2
0

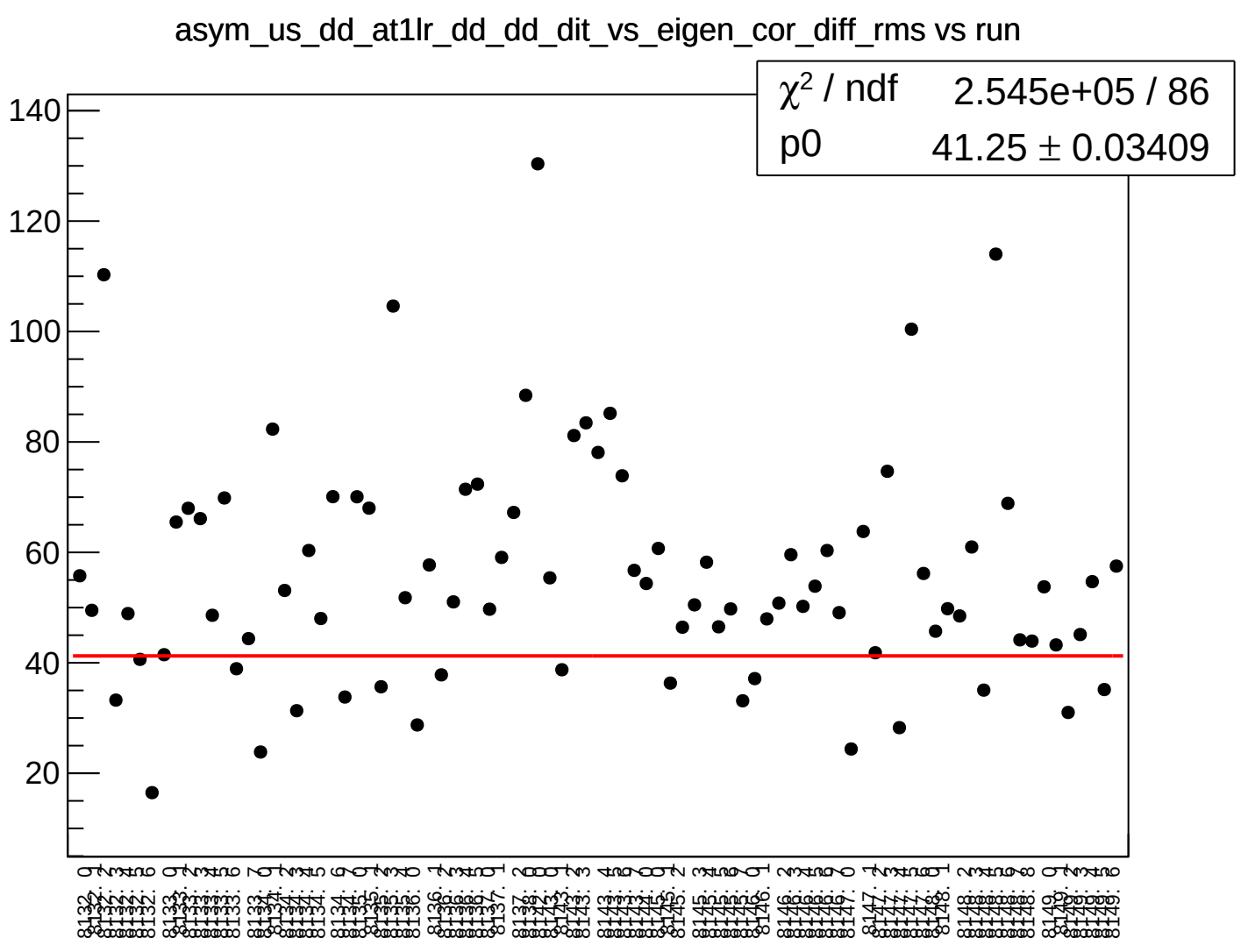

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 87.24 / 86
p0 −0.02386 ± 0.04821
pull
Entries 87
Mean 6.766
Std Dev 0

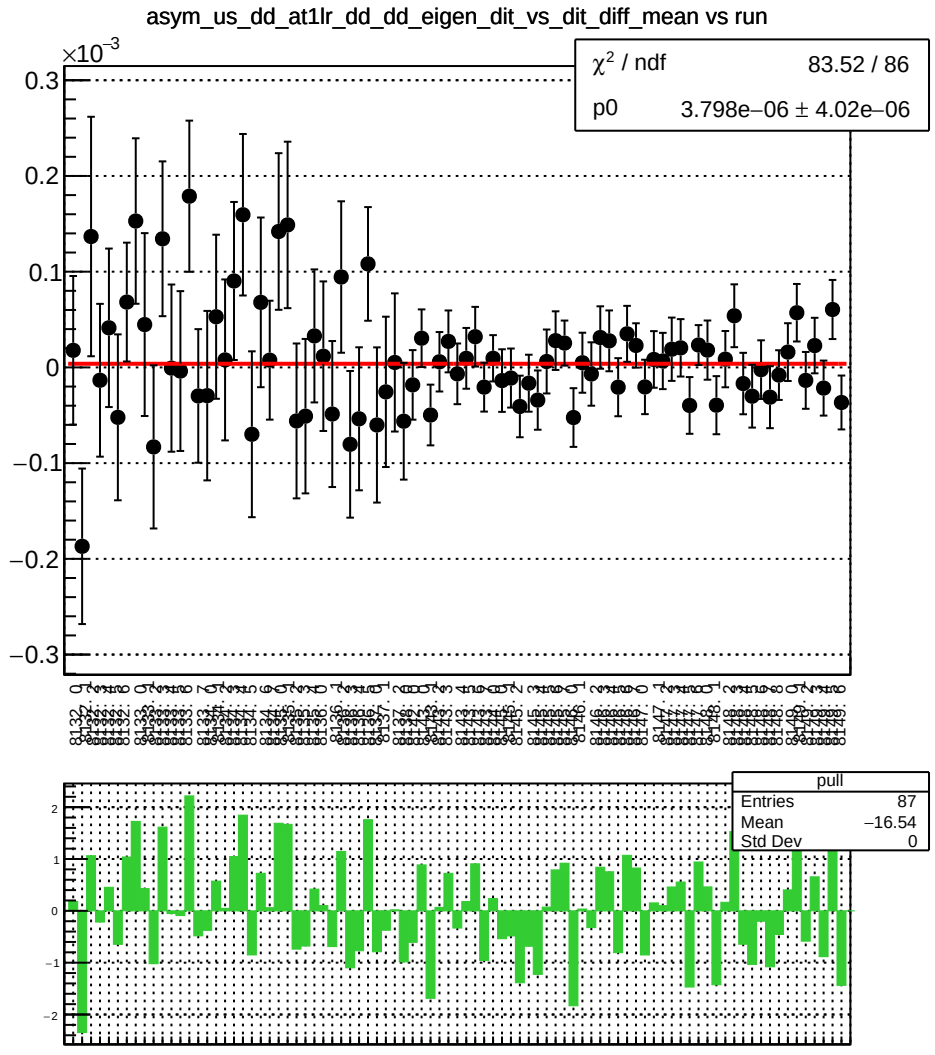

pull1D
Entries 87
Mean 0.03338
Std Dev 1.001

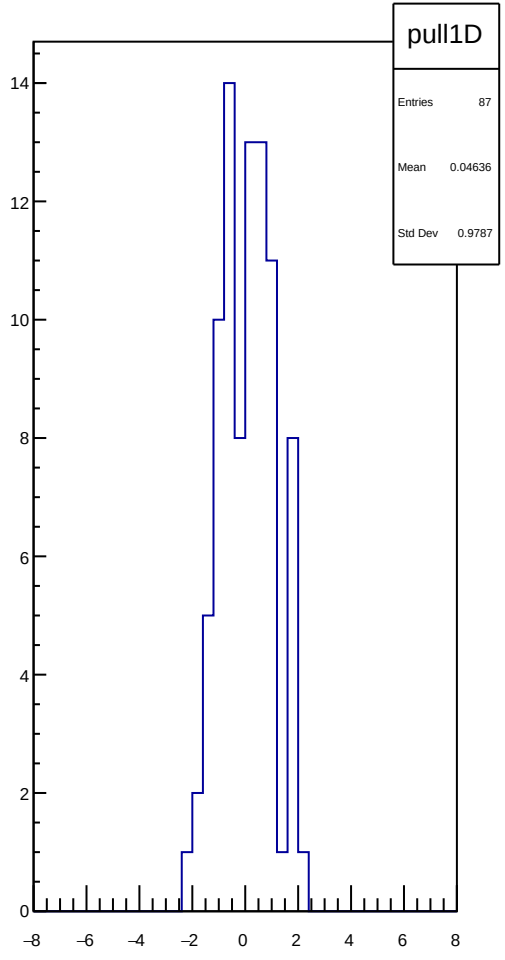

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.545e+05 / 86
p0 41.25 ± 0.03409
140
120
100
80
60
40
20

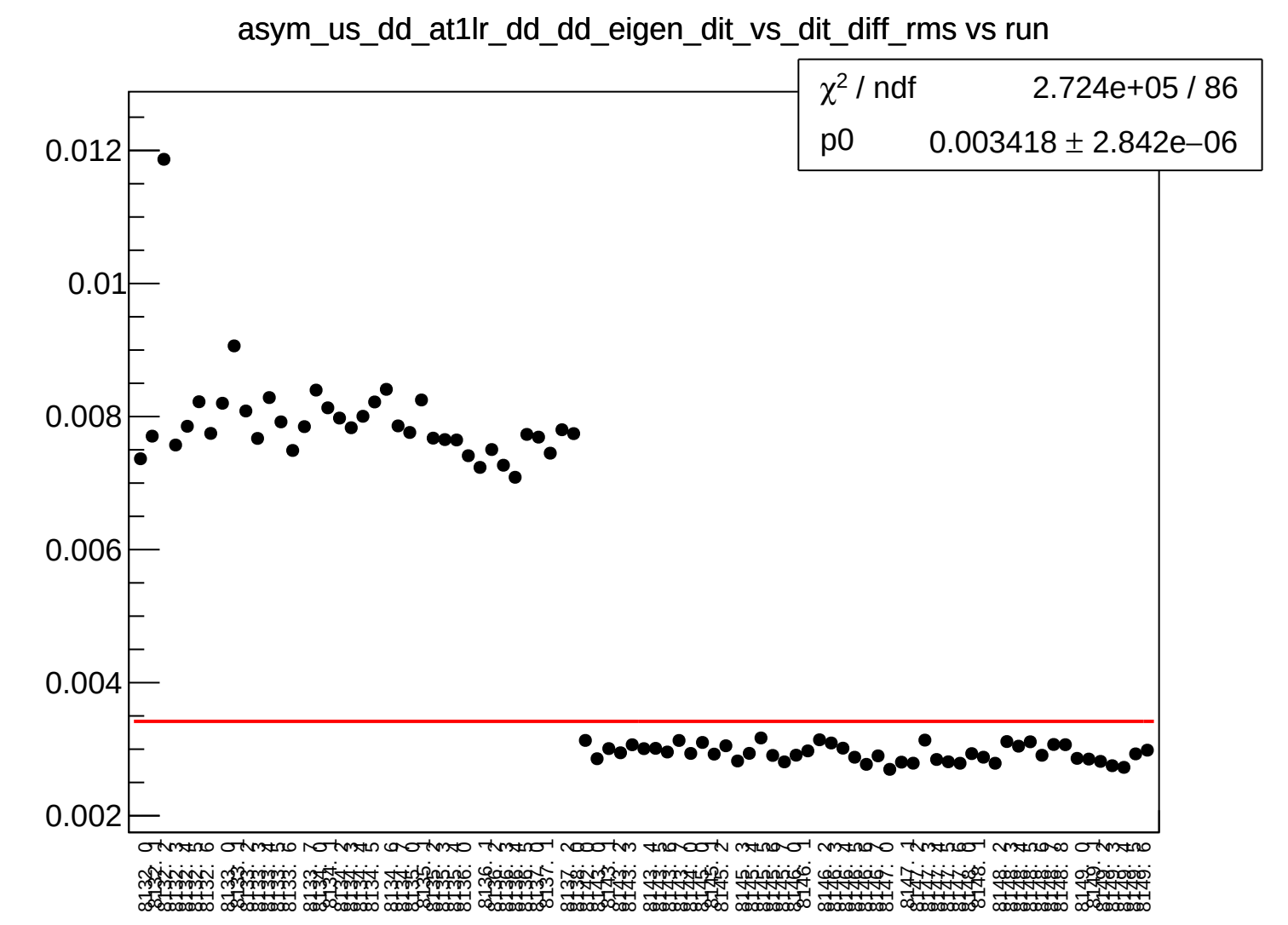

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.24 / 86
p0 −0.02386 ± 0.04821
pull
Entries 87
Mean 6.766
Std Dev 0

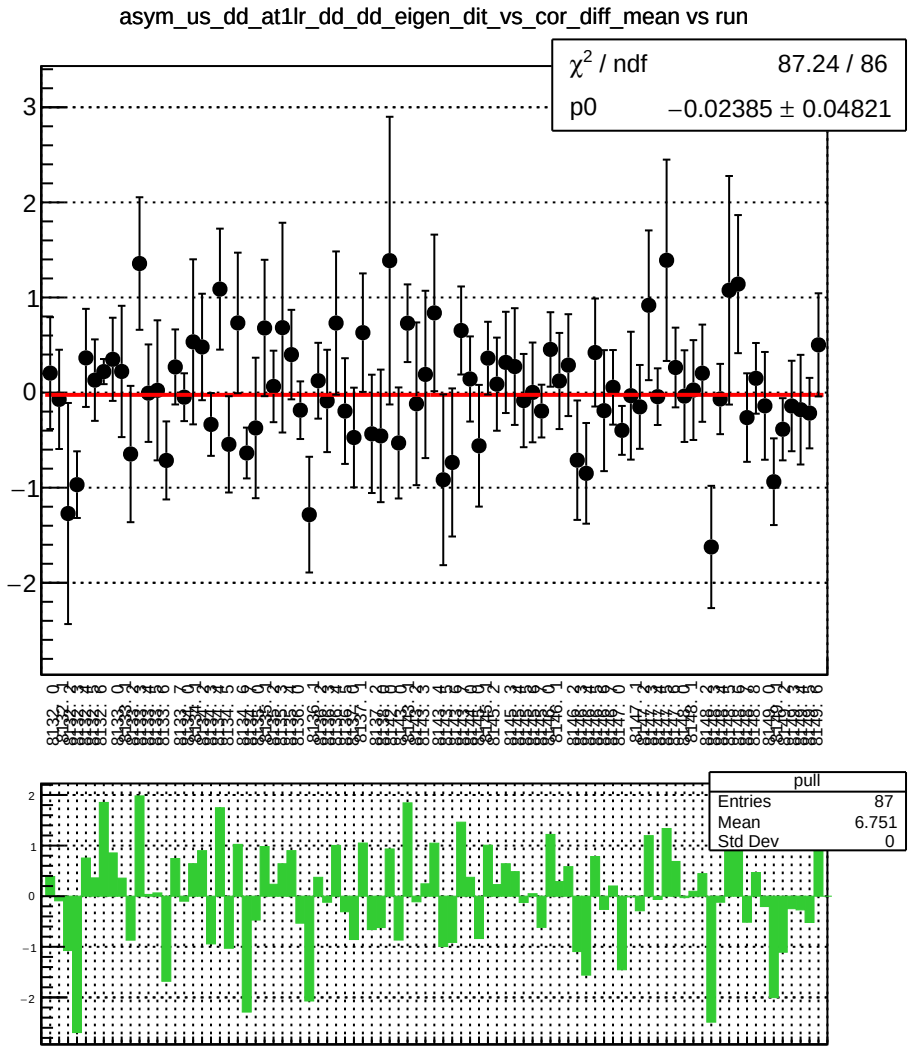

pull1D
Entries 87
Mean 0.03338
Std Dev 1.001

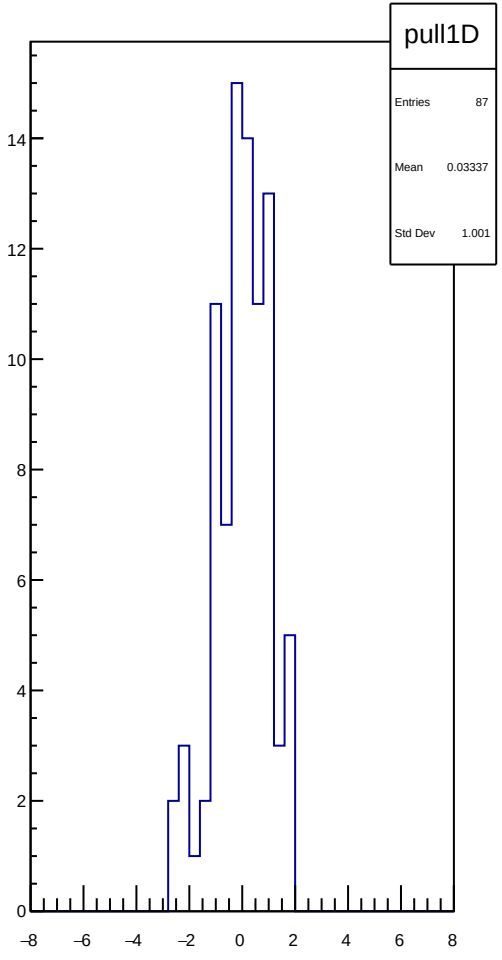

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.545e+05 / 86
p0 41.25 ± 0.03409
140
120
100
80
60
40
20

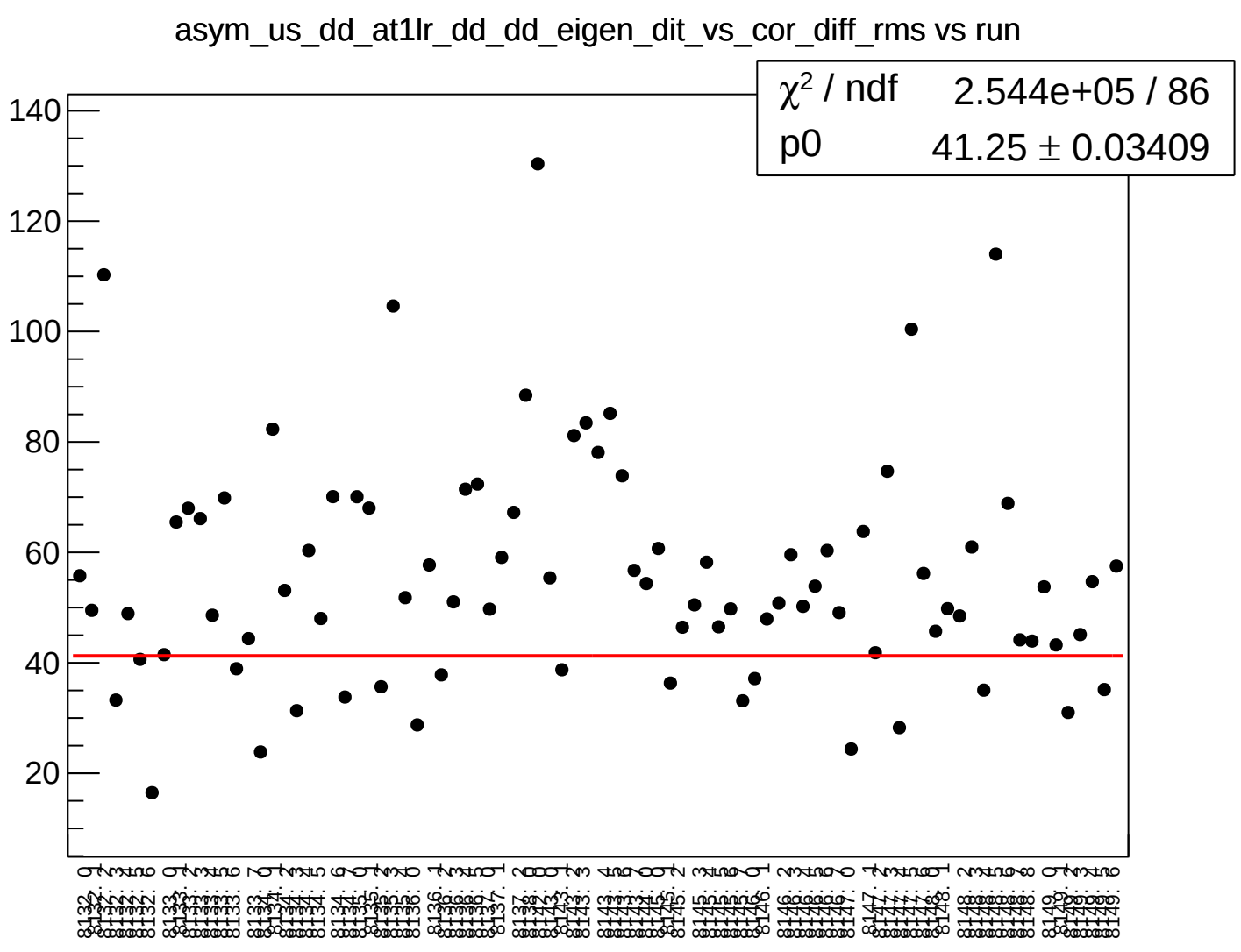

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83.52 / 86
p0 3.798e−06 ± 4.02e−06
pull
Entries 87
Mean −16.54
Std Dev 0

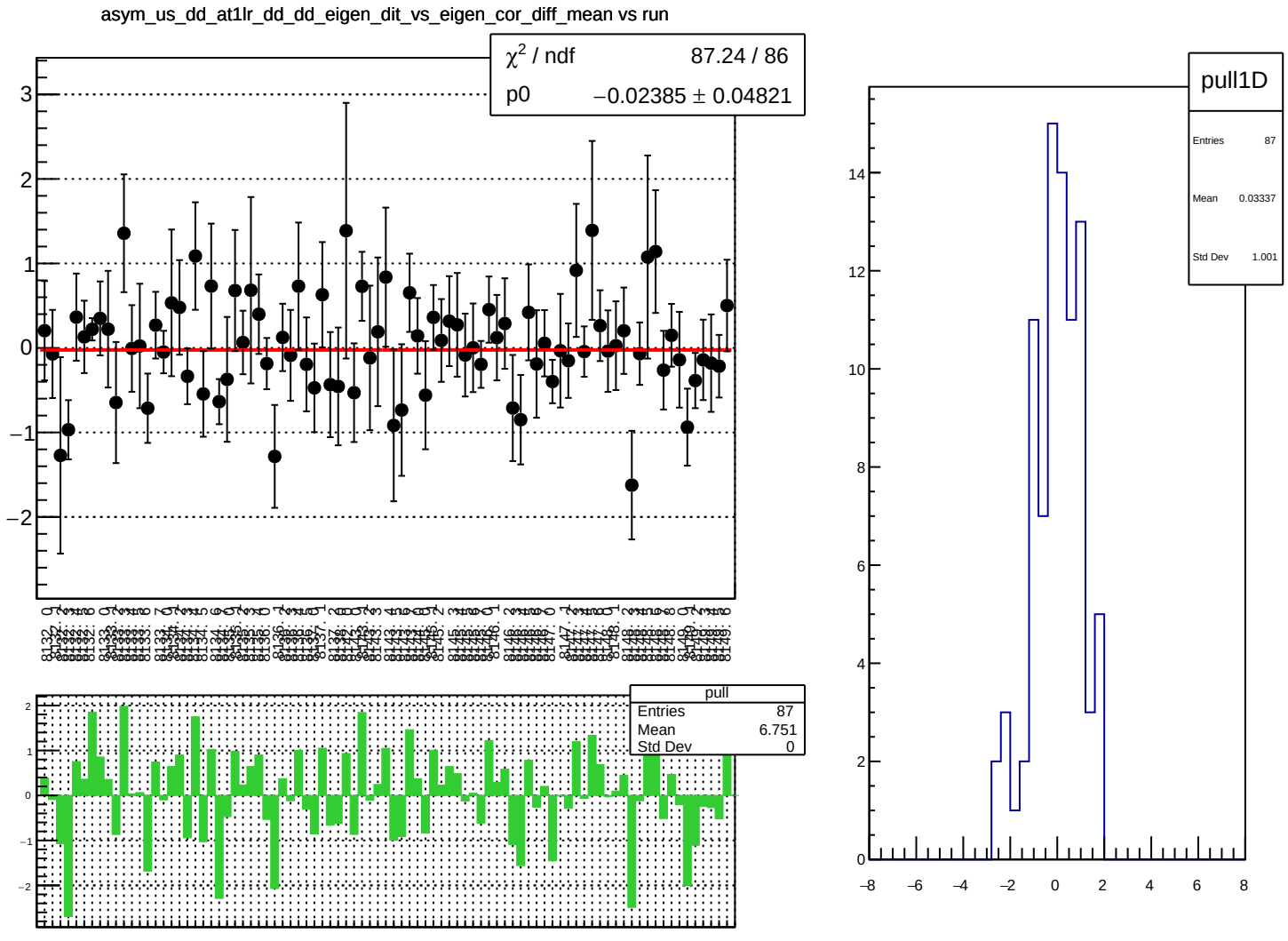

pull1D
Entries 87
Mean 0.04636
Std Dev 0.9787

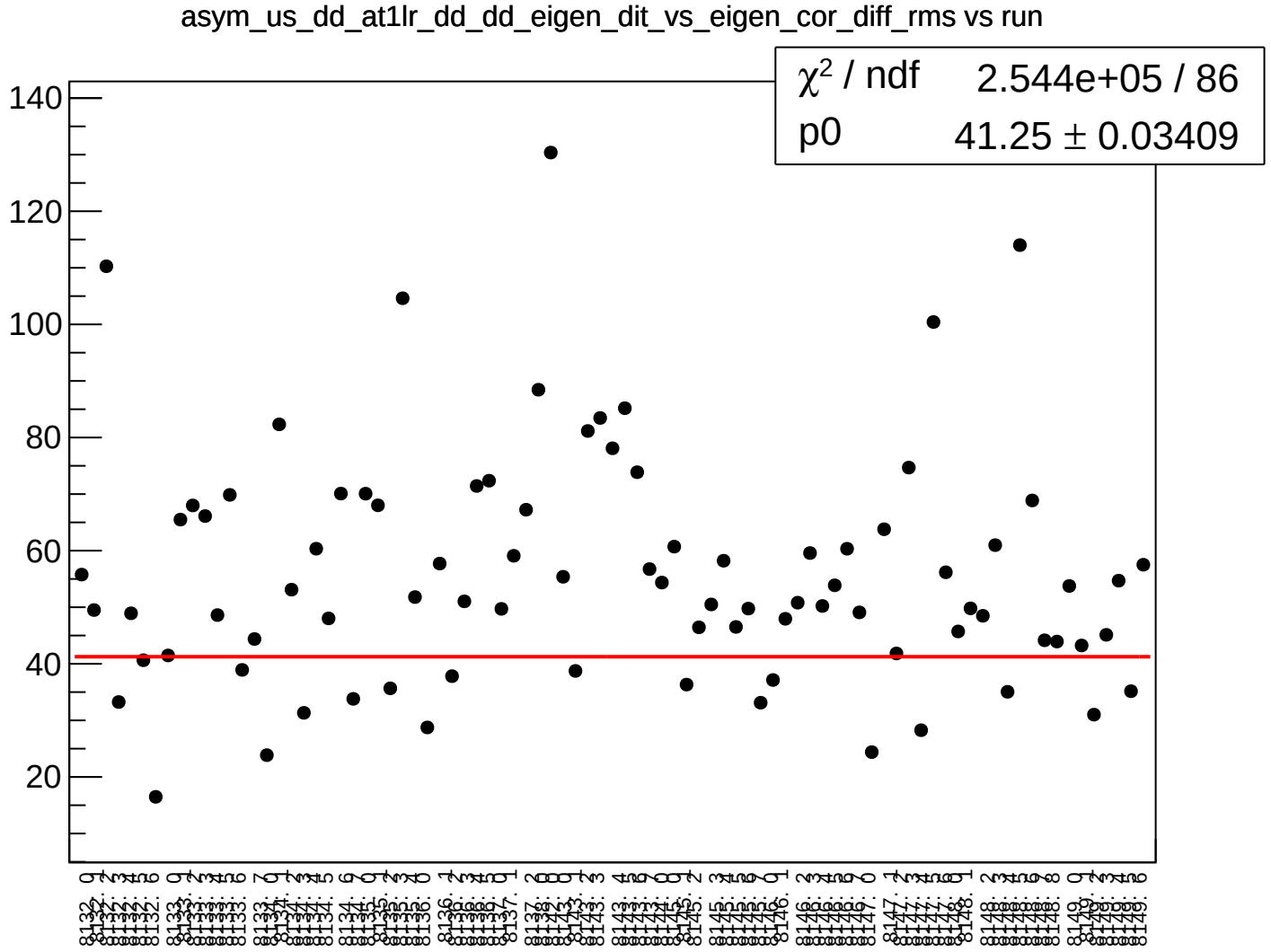

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.724e+05 / 86
p0 0.003418 ± 2.842e−06
0.012
0.01
0.008
0.006
0.004
0.002

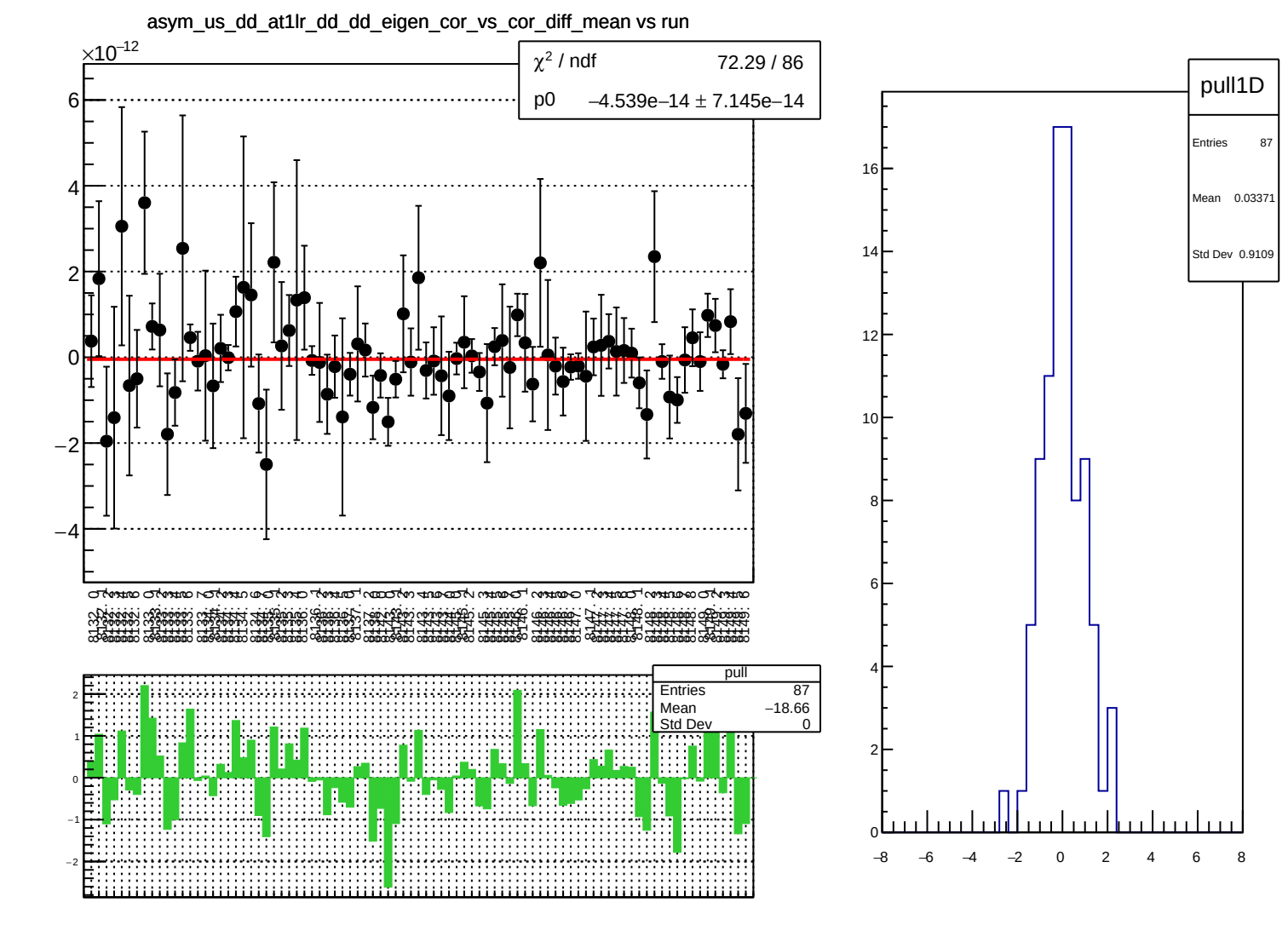

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ^2 / ndf 87.24 / 86
p0 −0.02385 ± 0.04821
pull
Entries 87
Mean 6.751
Std Dev 0

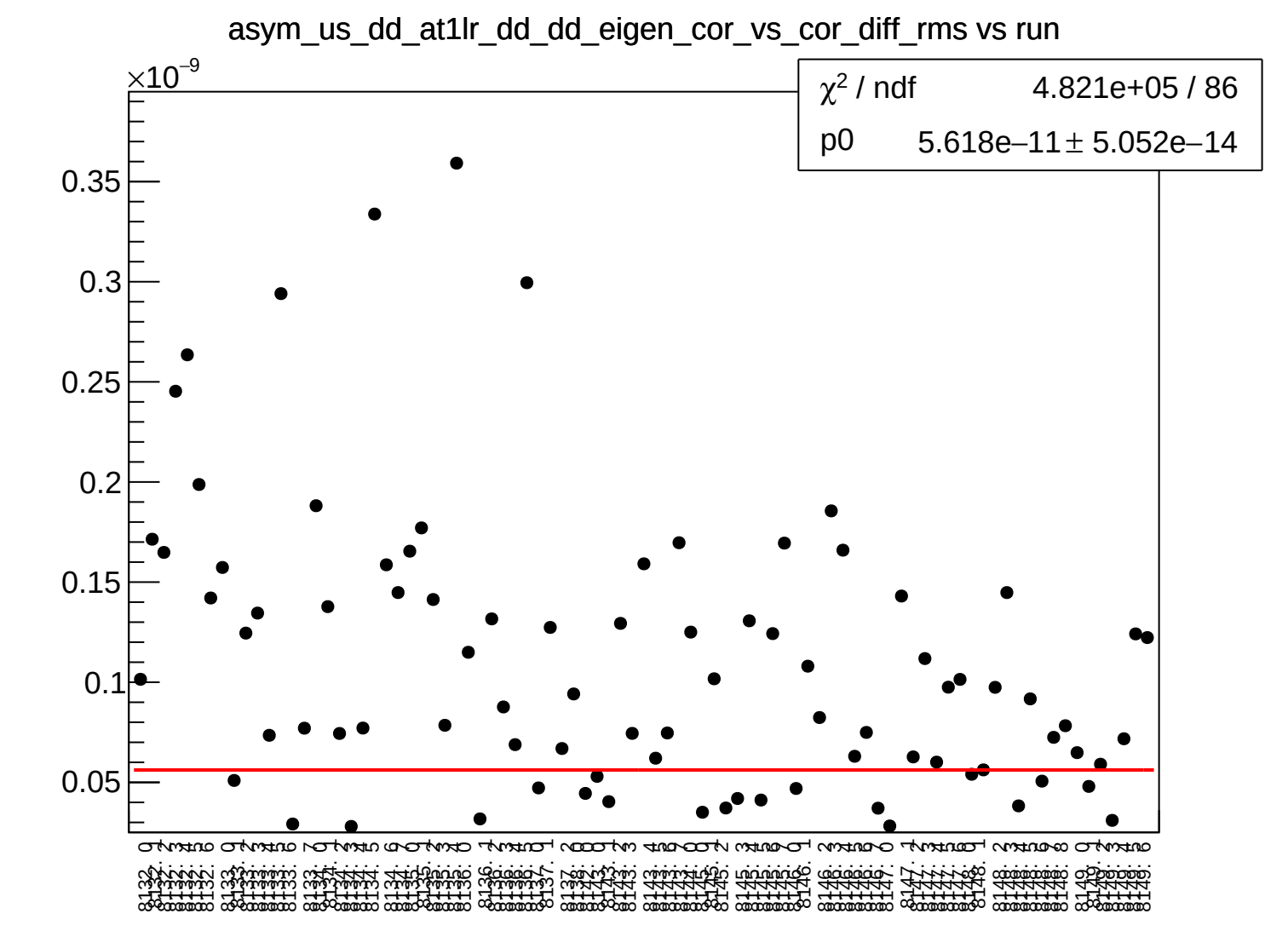

pull1D
Entries 87
Mean 0.03337
Std Dev 1.001

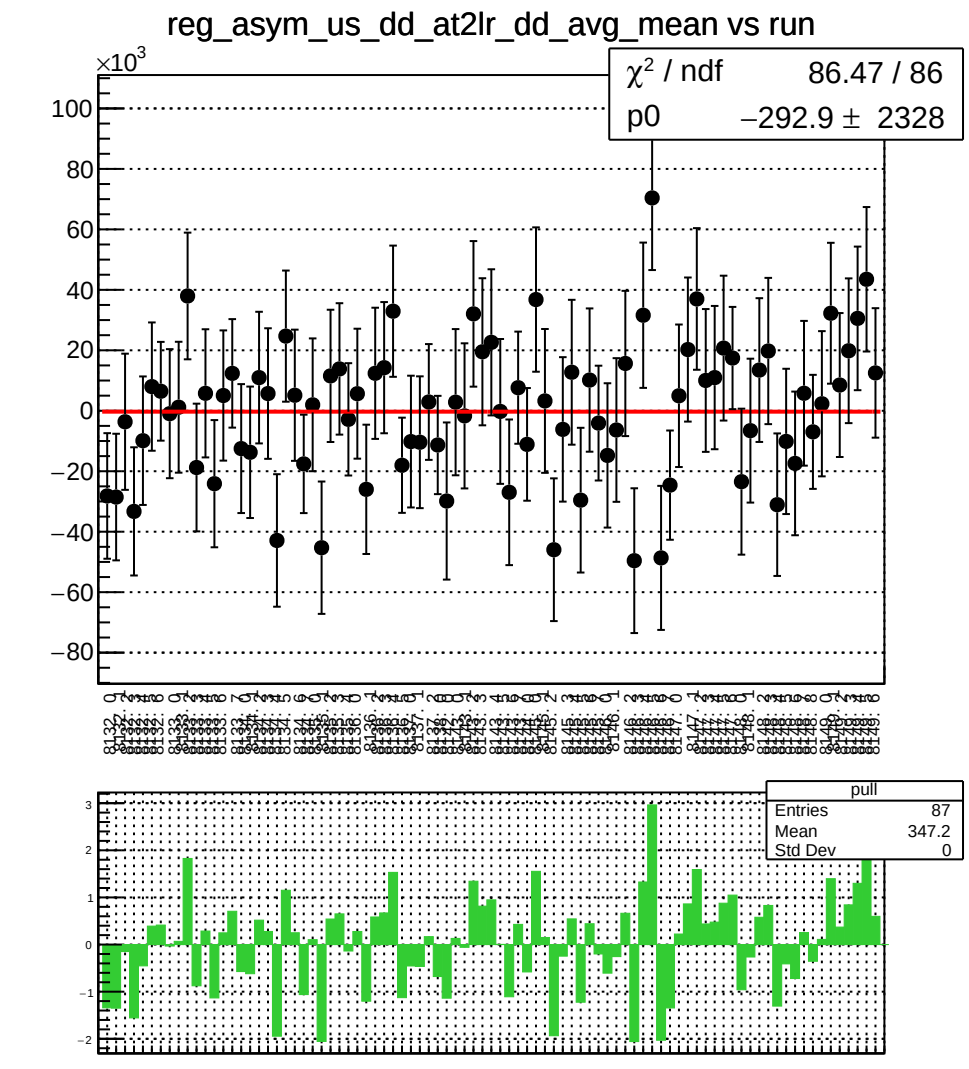

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.544e+05 / 86
p0 41.25 ± 0.03409
140
120
100
80
60
40
20

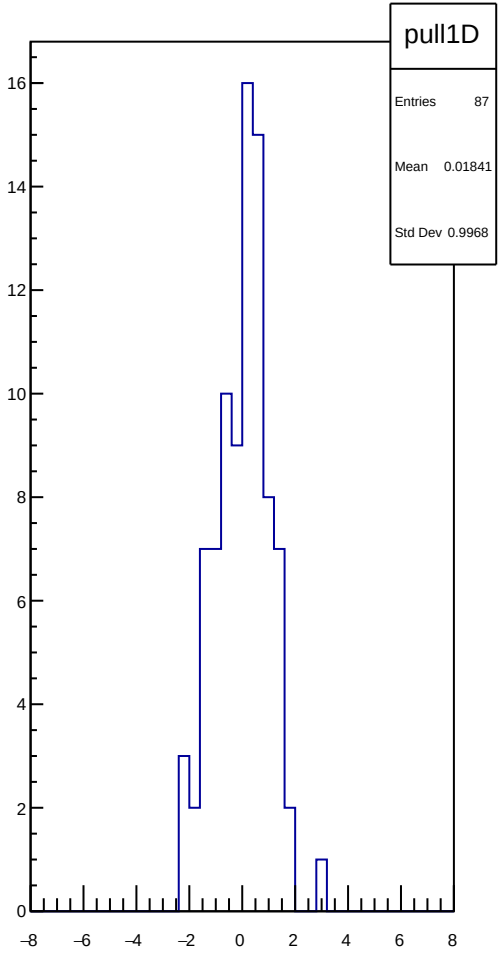

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.24 / 86
p0 −0.02385 ± 0.04821
pull
Entries 87
Mean 6.751
Std Dev 0
pull1D
Entries 87
Mean 0.03337
Std Dev 1.001

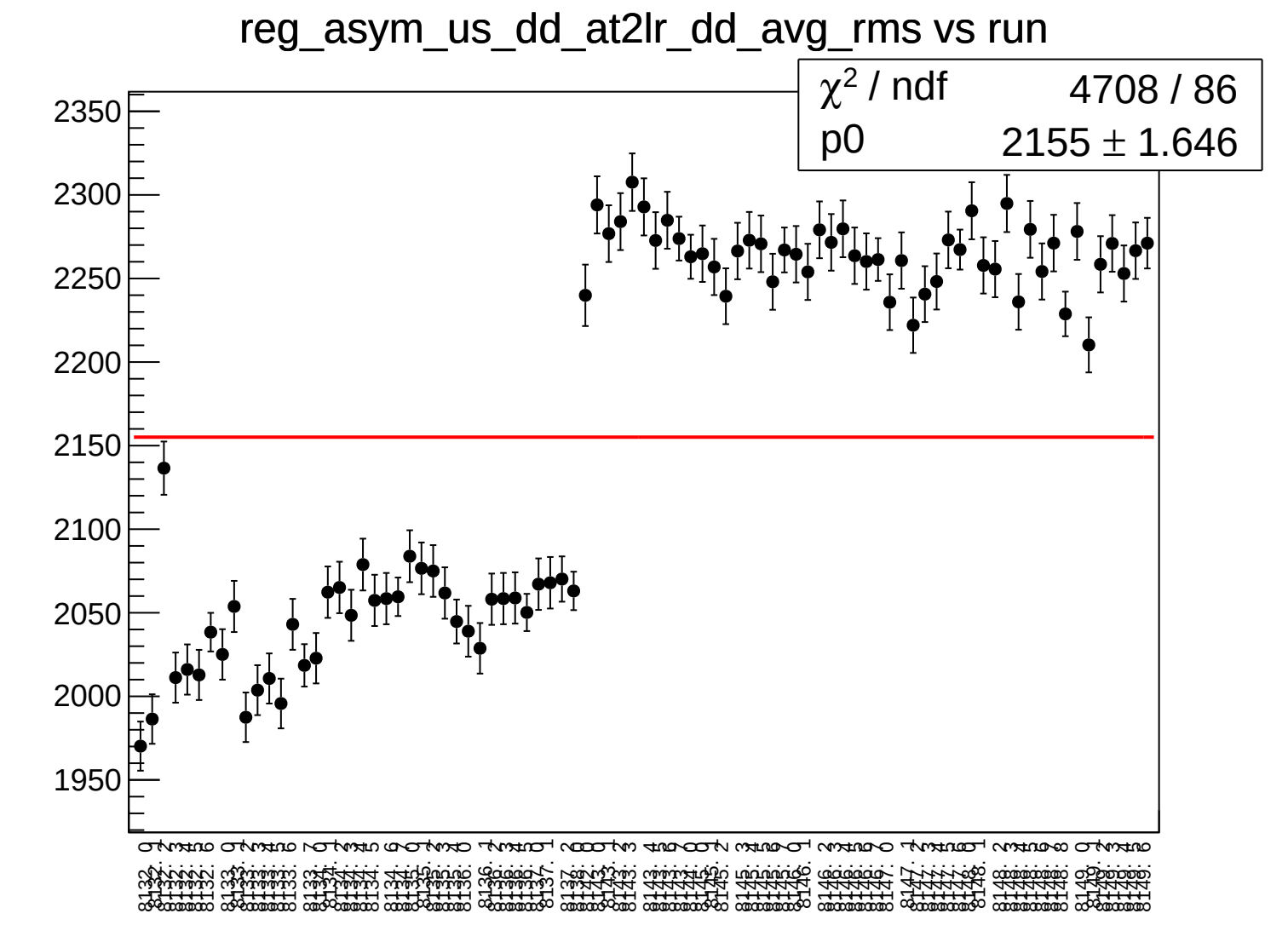

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.544e+05 / 86
p0 41.25 ± 0.03409
140
120
100
80
60
40
20

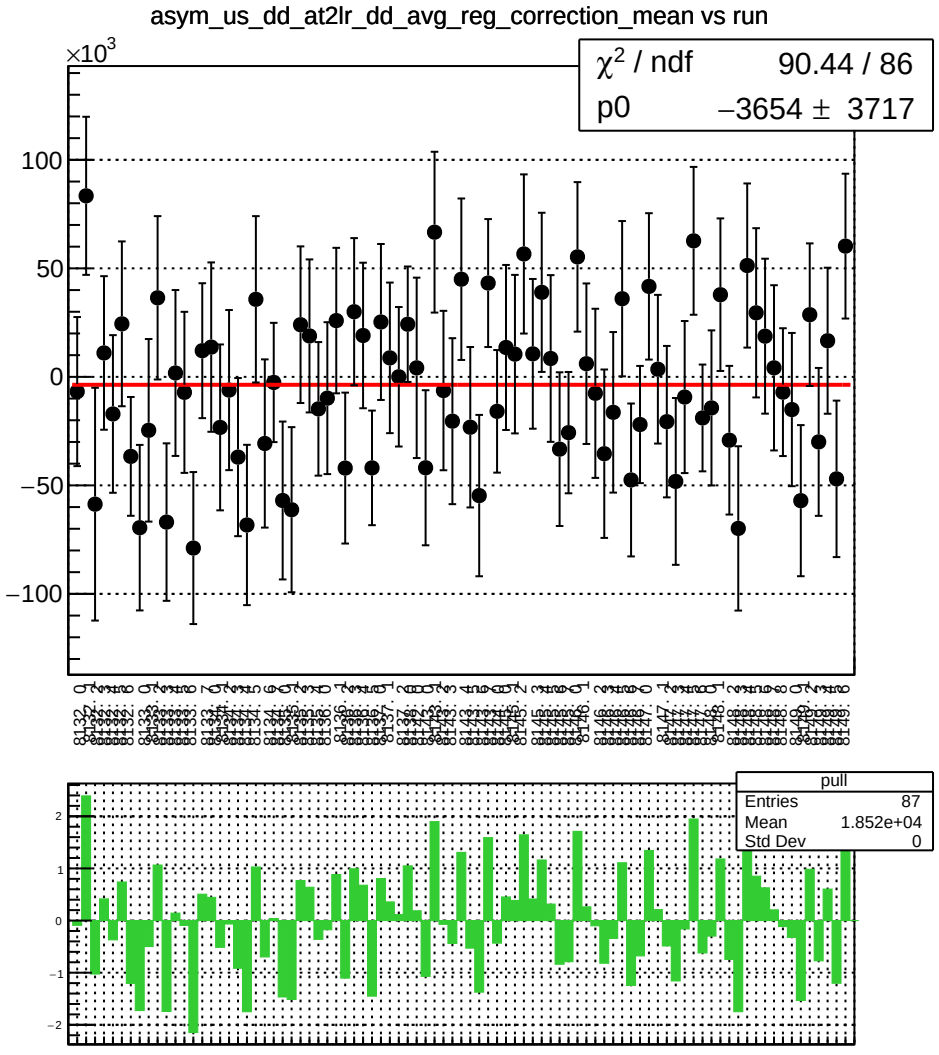

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.29 / 86
p0 −4.539e−14 ± 7.145e−14
pull
Entries 87
Mean −18.66
Std Dev 0
pull1D
Entries 87
Mean 0.03371
Std Dev 0.9109

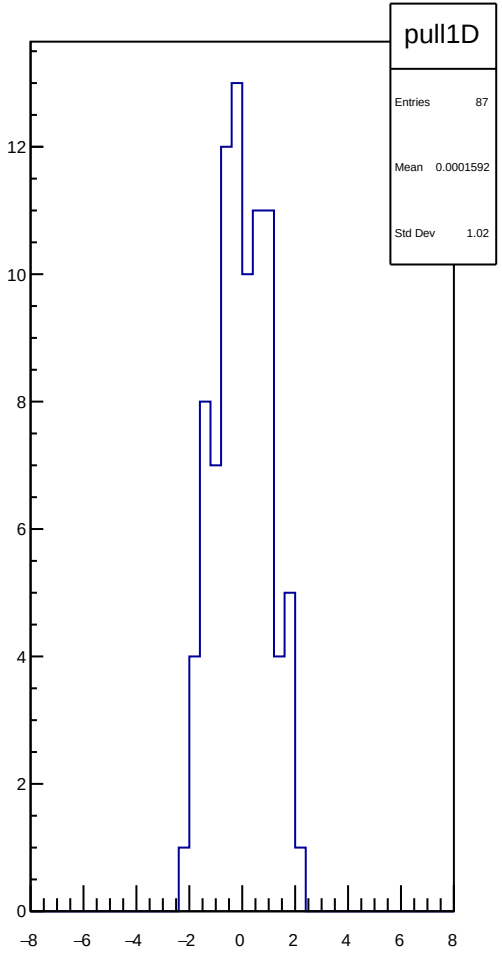

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.821e+05 / 86
p0 5.618e−11 ± 5.052e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

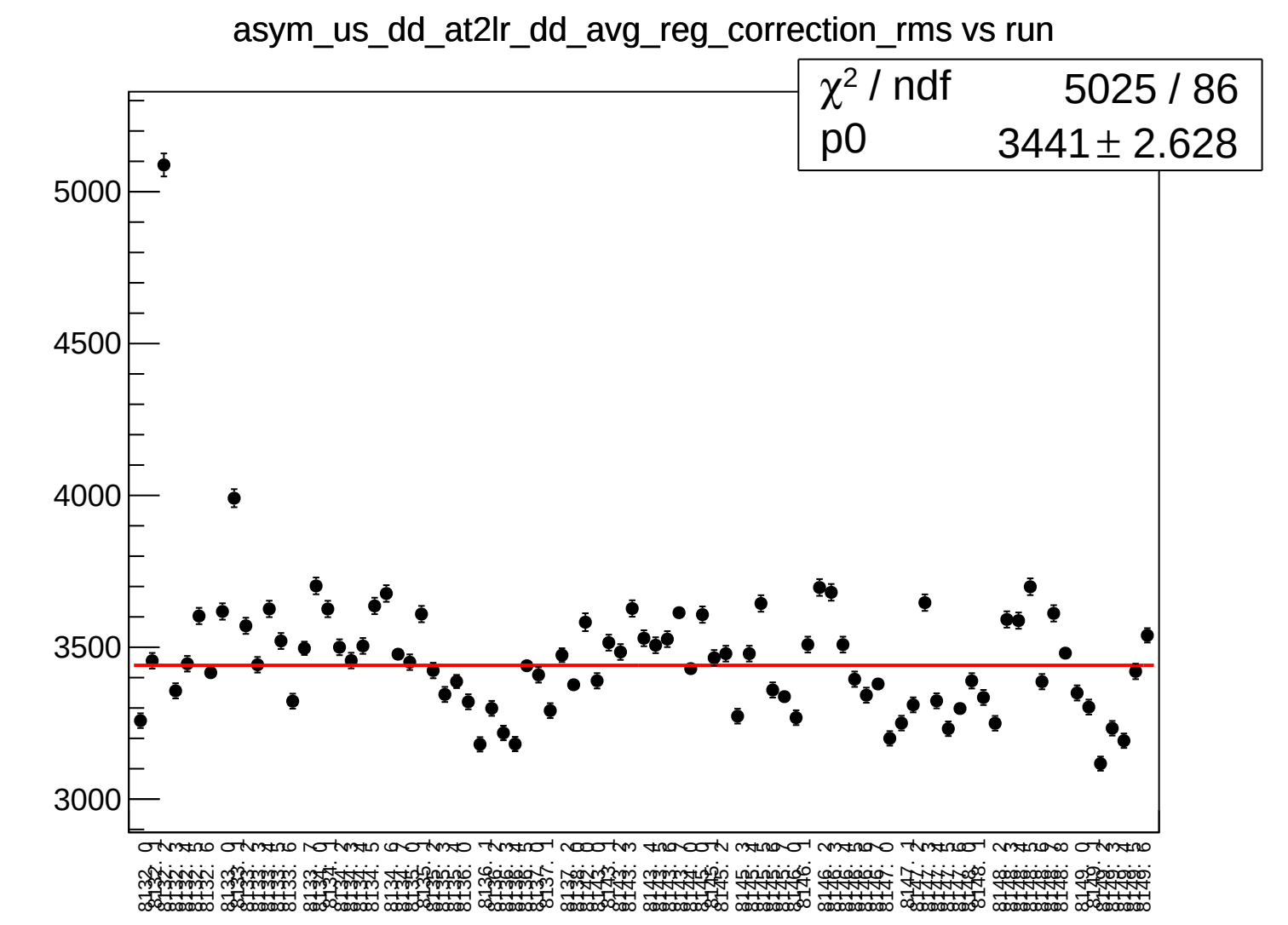

reg_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 86.47 / 86
p0 −292.9 ± 2328
pull
Entries 87
Mean 347.2
Std Dev 0

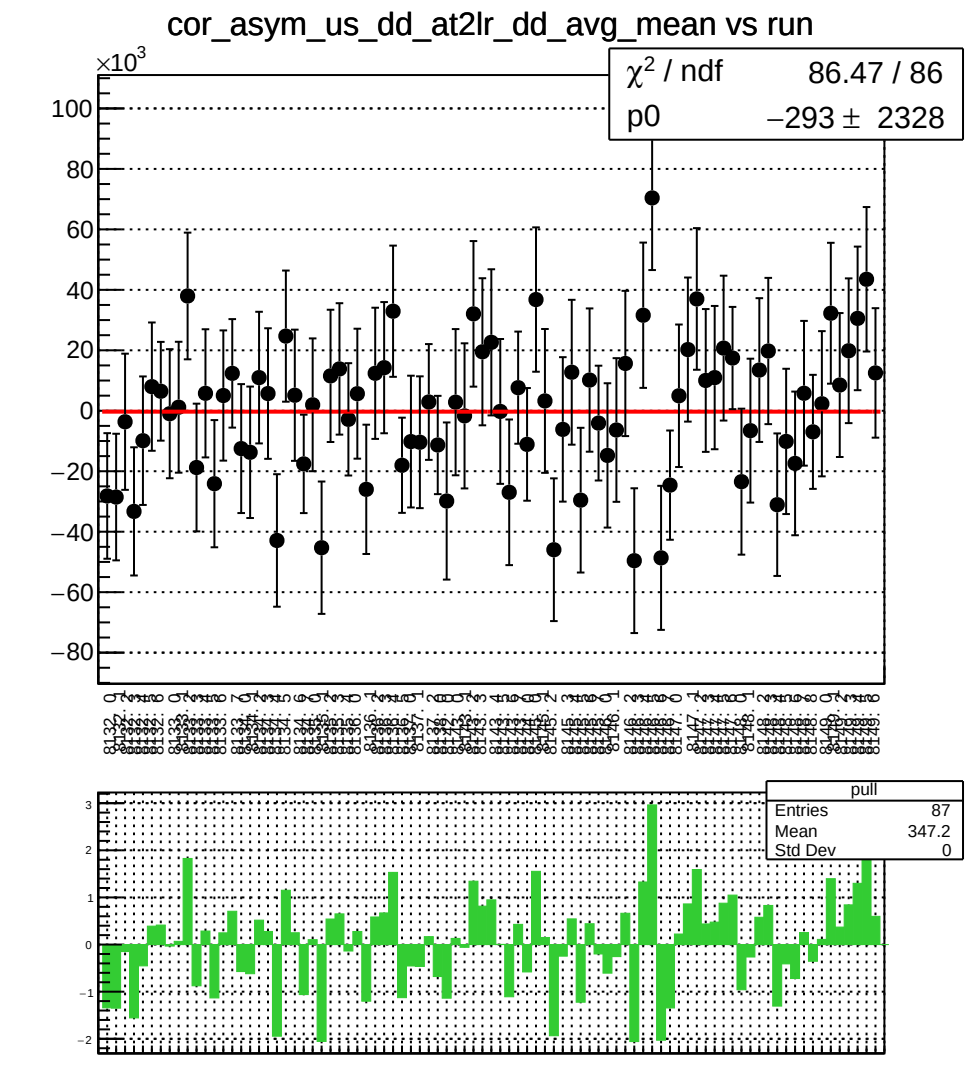

pull1D
Entries 87
Mean 0.01841
Std Dev 0.9968

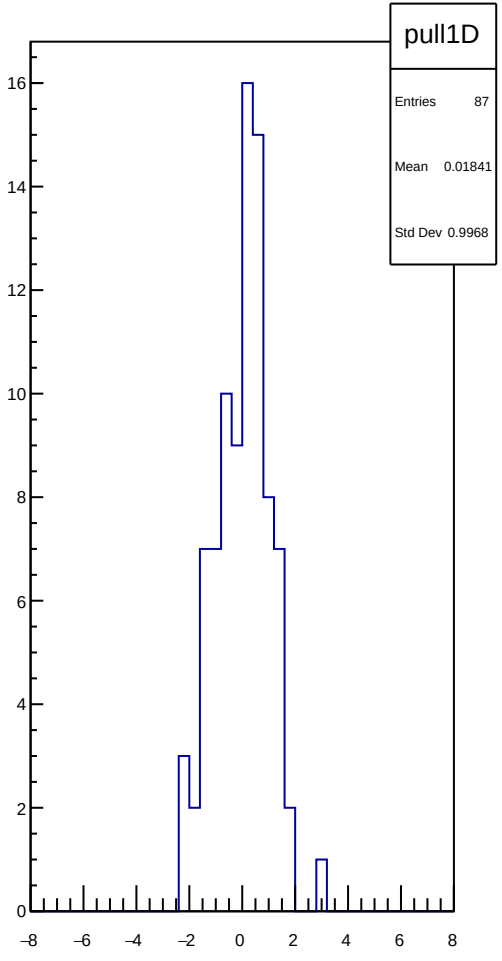

reg_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 4708 / 86
p0 2155 ± 1.646
2350
2300
2250
2200
2150
2100
2050
2000
1950

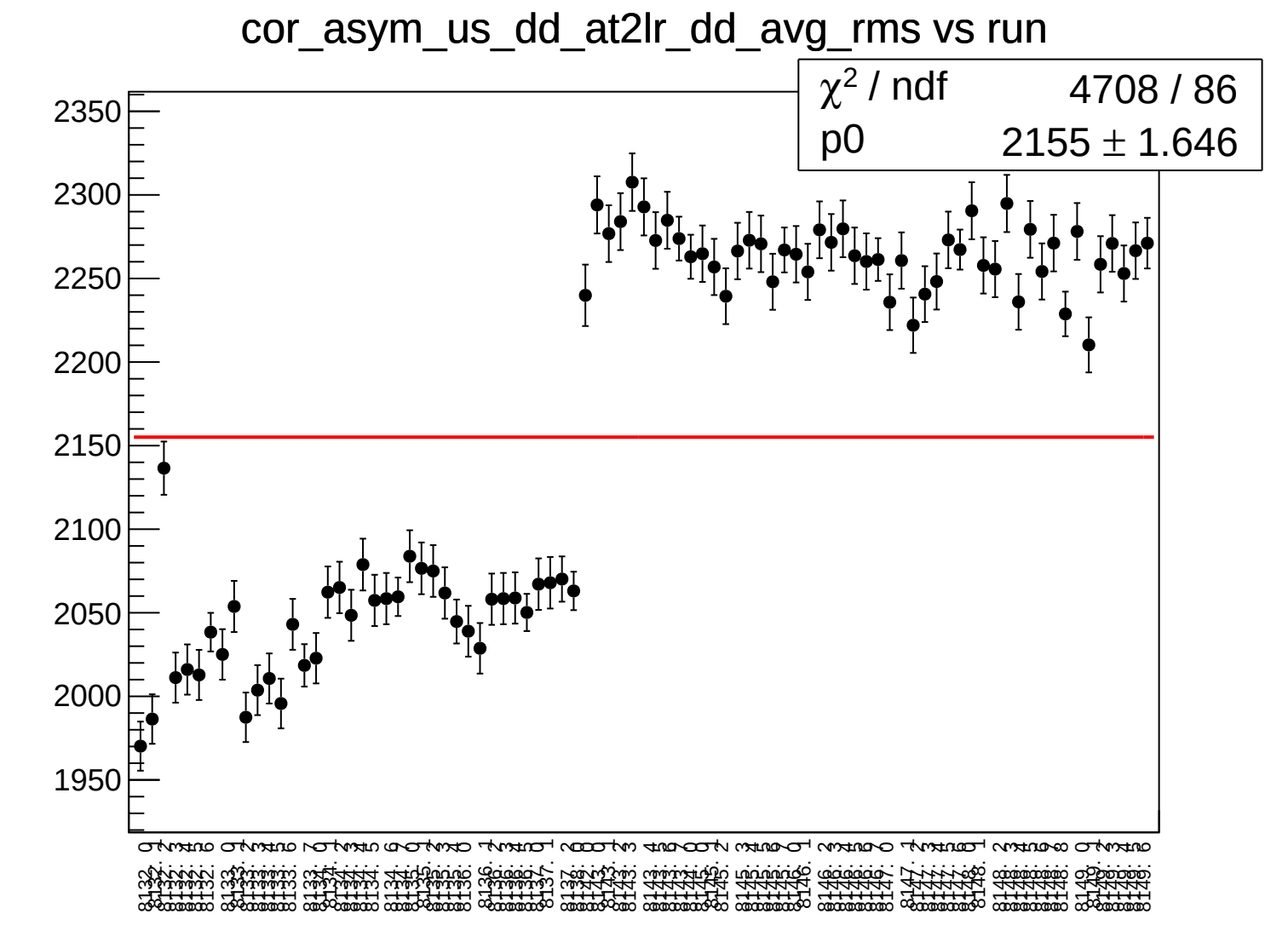

asym_us_dd_at2lr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 90.44 / 86
p0 −3654 ± 3717
100
50
0
−50
−100
pull
Entries 87
Mean 1.852e+04
Std Dev 0
2
1
0
−1
−2

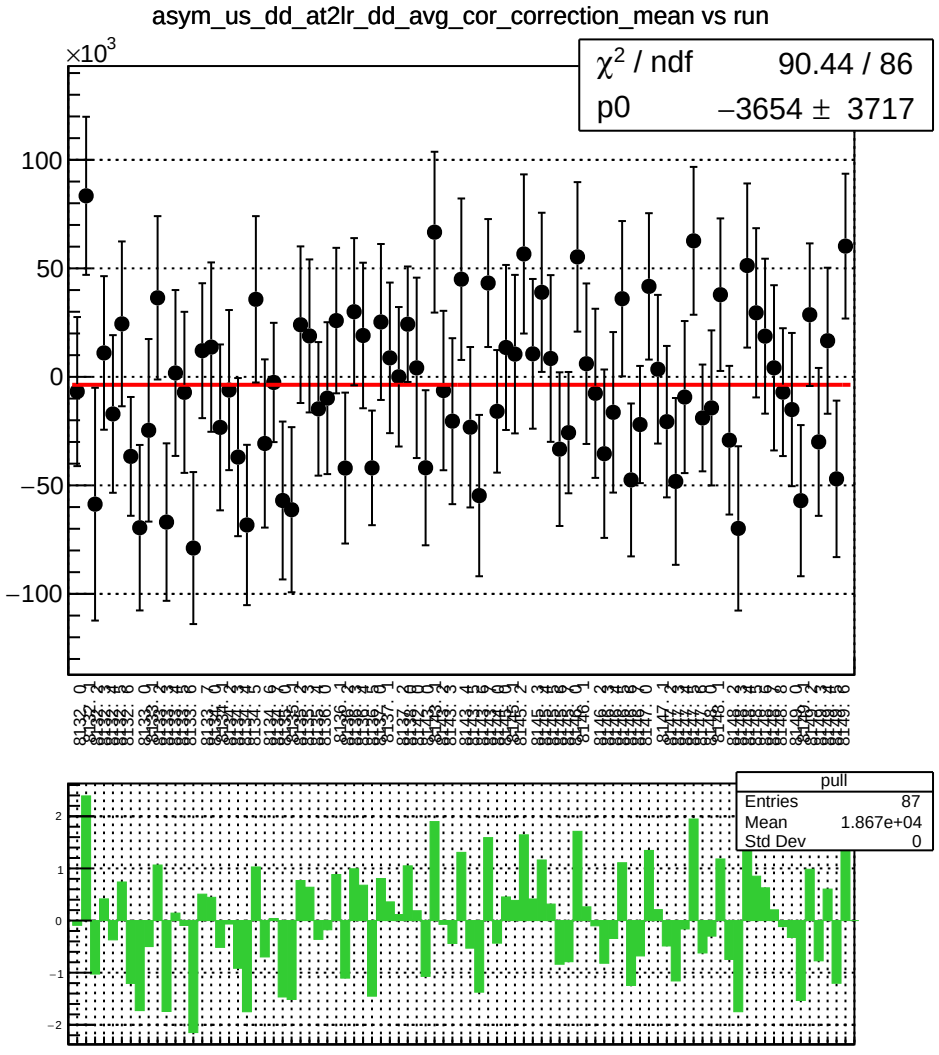

pull1D
Entries 87
Mean 0.0001592
Std Dev 1.02
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

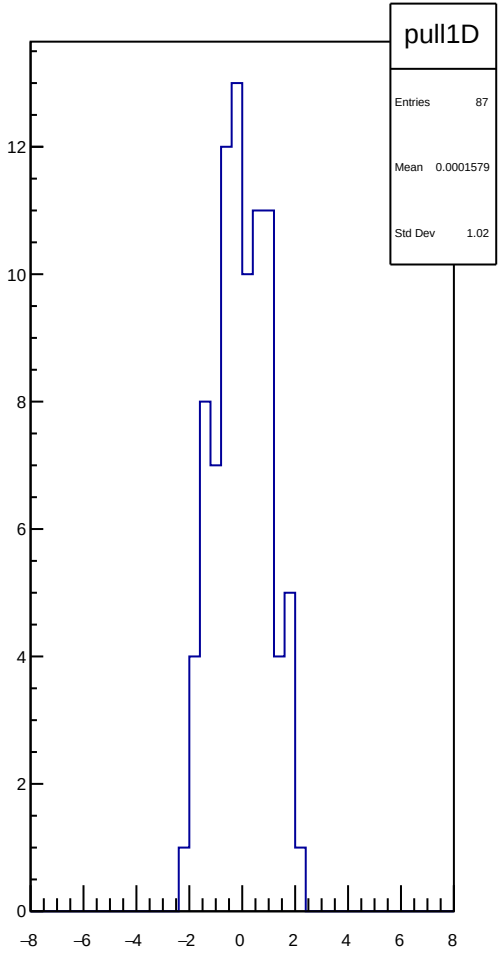

asym_us_dd_at2lr_dd_avg_reg_correction_rms vs run
χ² / ndf 5025 / 86
p0 3441 ± 2.628
5000
4500
4000
3500
3000


cor_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ^2 / ndf 86.47 / 86
p0 −293 ± 2328
pull
Entries 87
Mean 347.2
Std Dev 0


pull1D
Entries 87
Mean 0.01841
Std Dev 0.9968


cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 4708 / 86
p0 2155 ± 1.646
2350
2300
2250
2200
2150
2100
2050
2000
1950


asym_us_dd_at2lr_dd_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 90.44 / 86
p0 −3654 ± 3717
100
50
0
−50
−100
pull
Entries 87
Mean 1.867e+04
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 87
Mean 0.0001579
Std Dev 1.02
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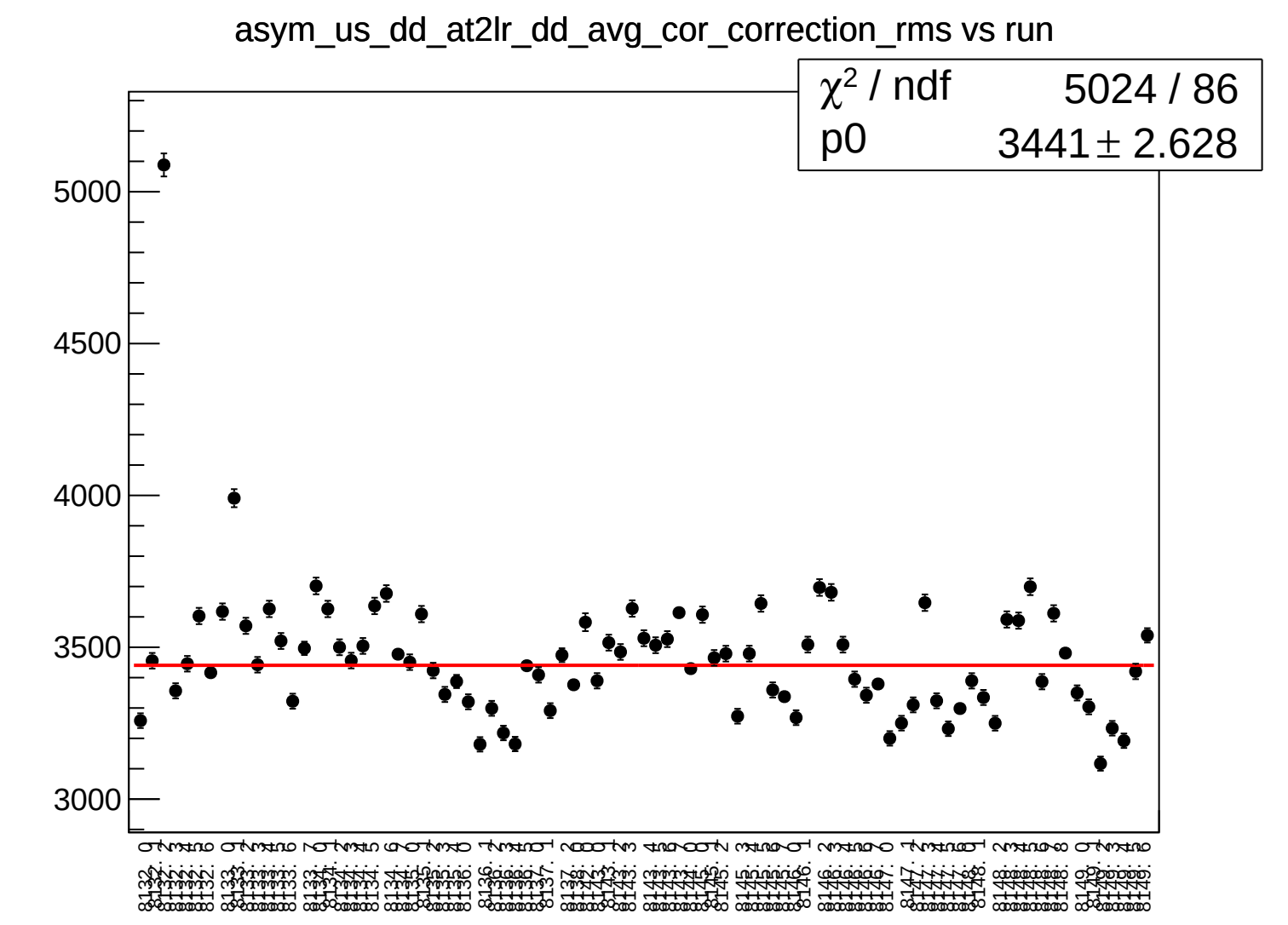
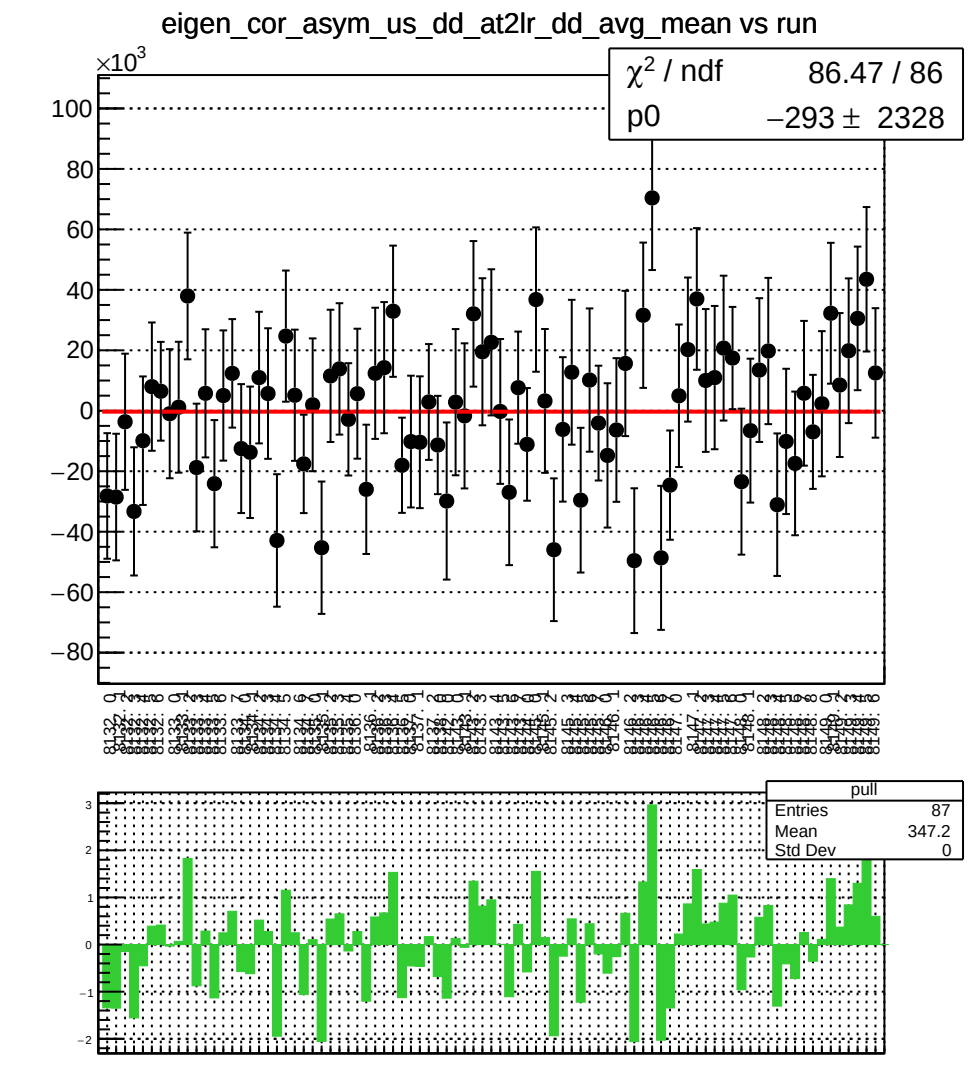
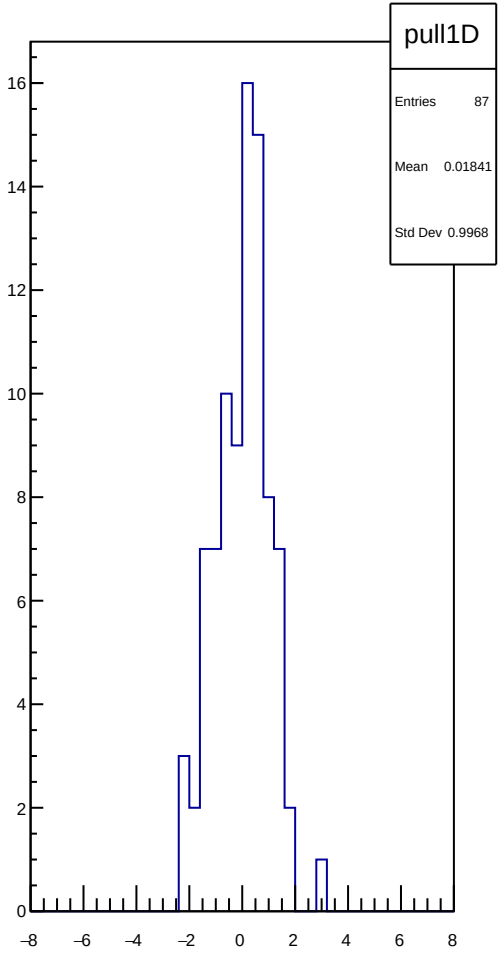
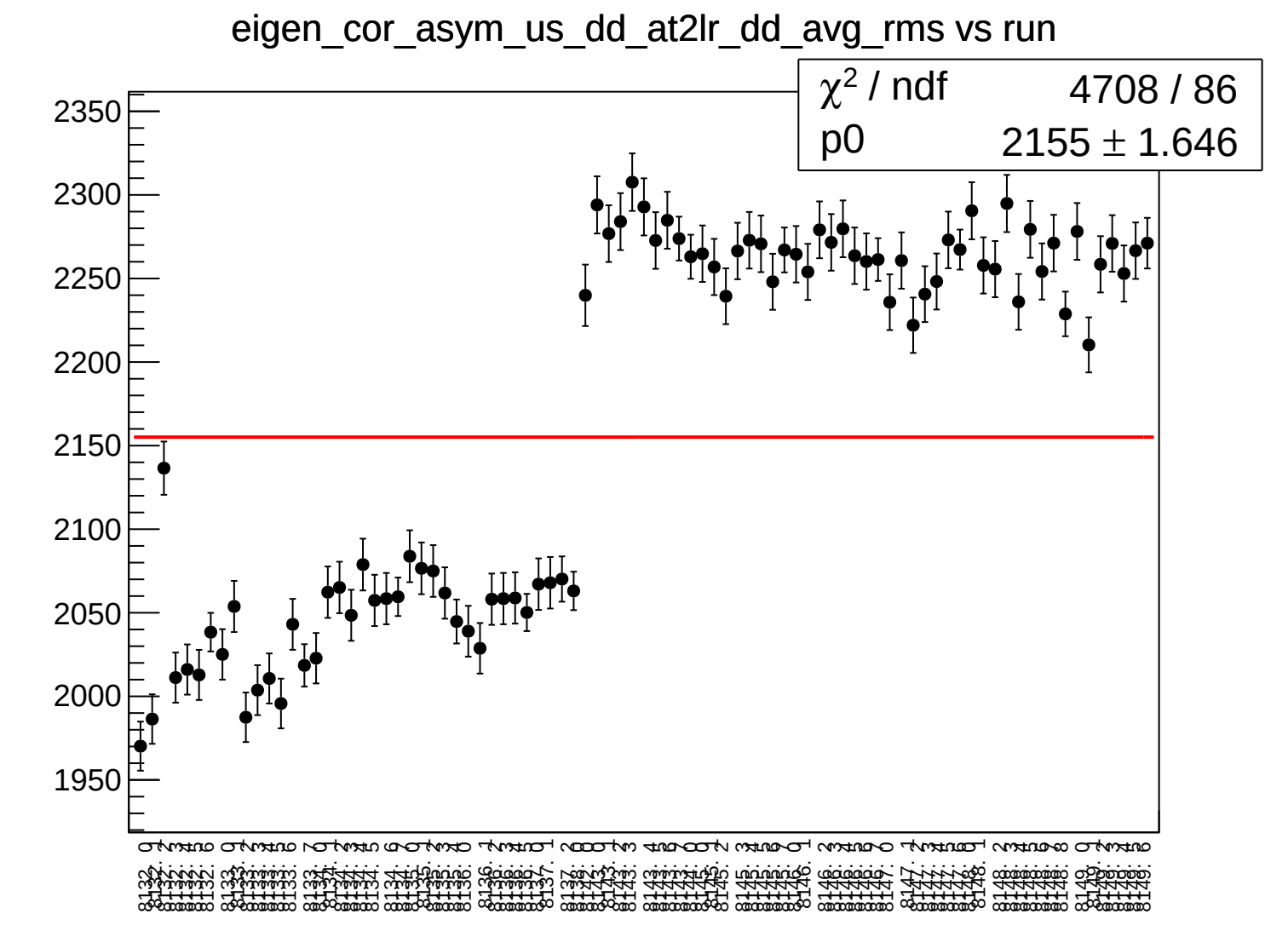
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

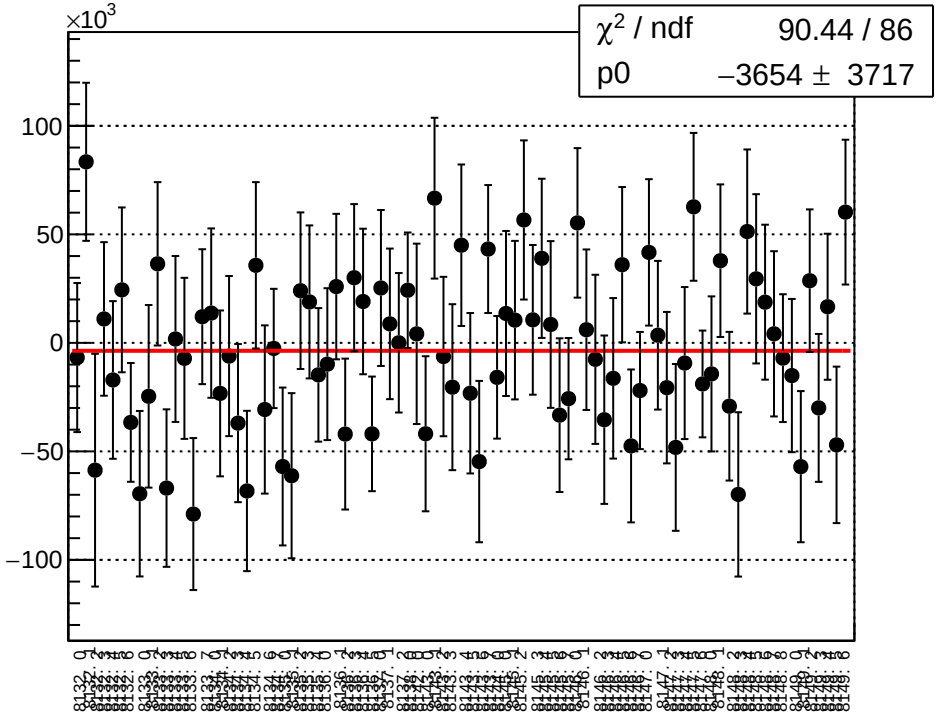

asym_us_dd_at2lr_dd_avg_cor_correction_rms vs run
χ² / ndf 5024 / 86
p0 3441 ± 2.628
5000
4500
4000
3500
3000

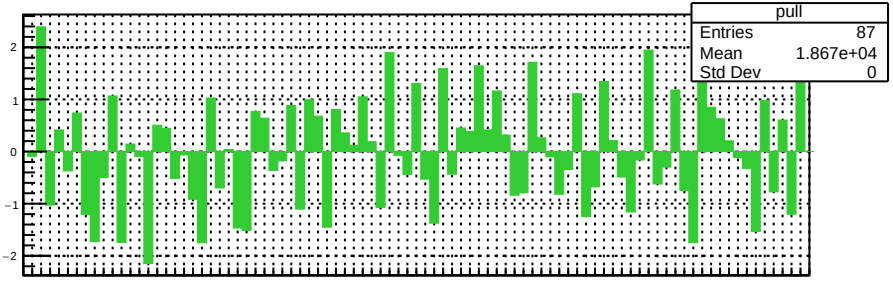

eigen_cor_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 86.47 / 86
p0 −293 ± 2328
pull
Entries 87
Mean 347.2
Std Dev 0

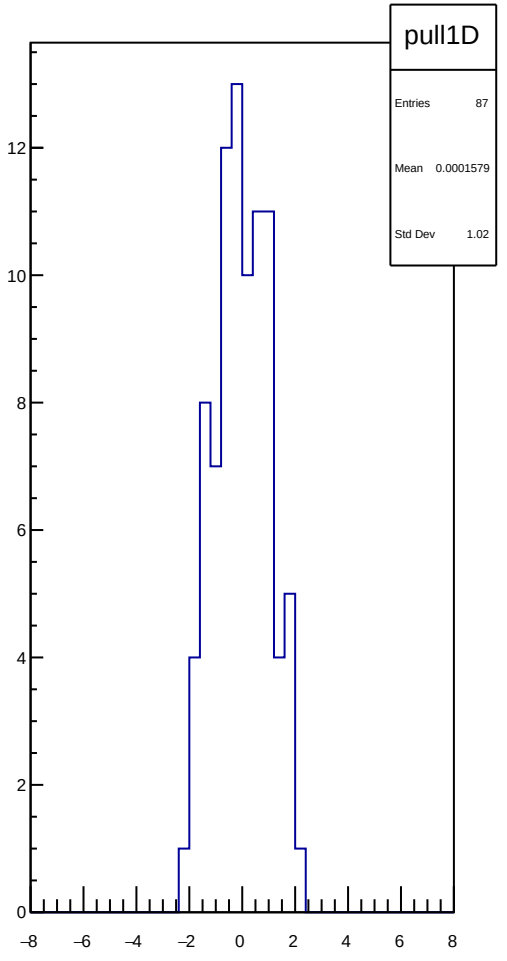

pull1D
Entries 87
Mean 0.01841
Std Dev 0.9968

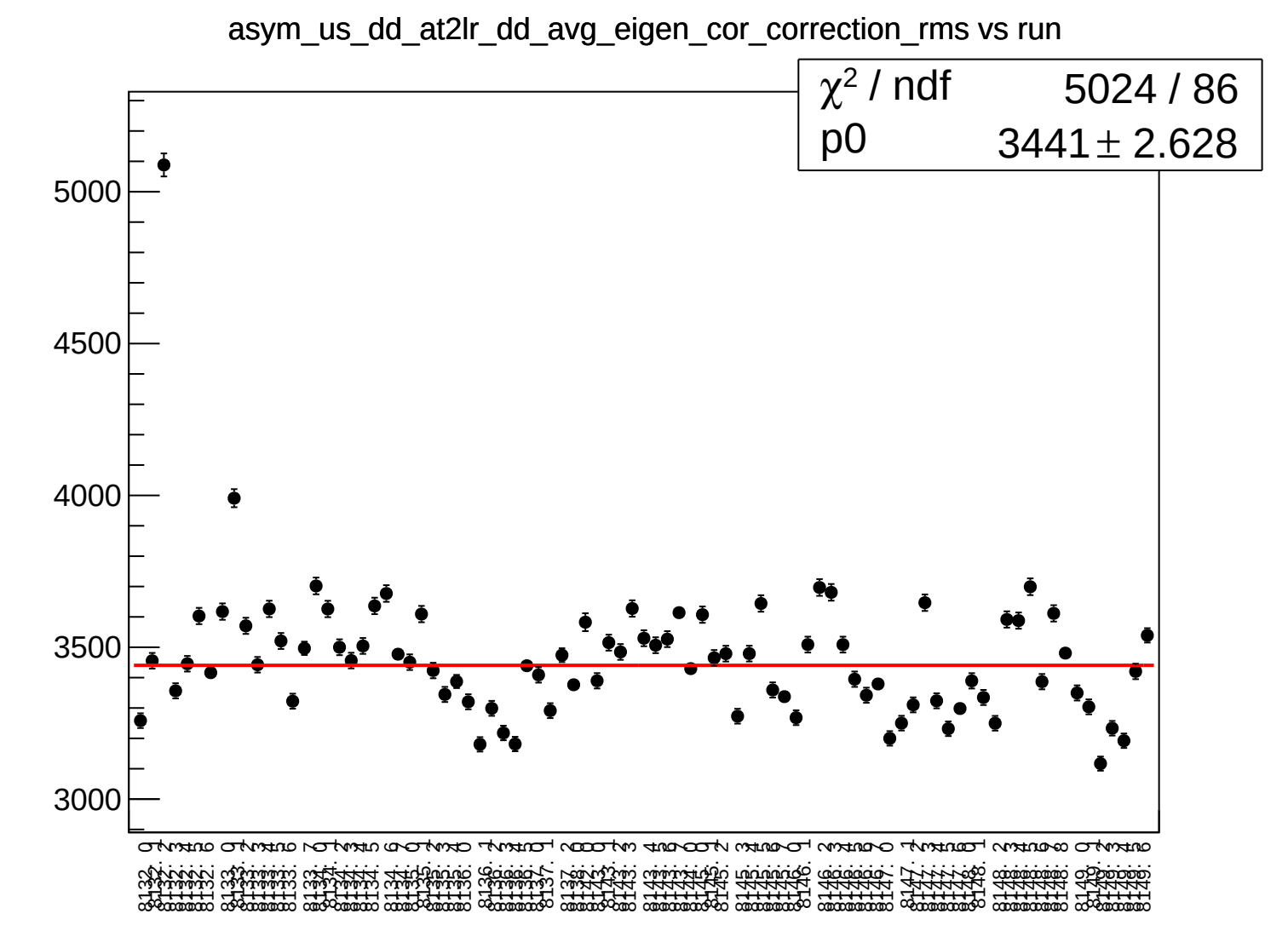

eigen_cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 4708 / 86
p0 2155 ± 1.646
2350
2300
2250
2200
2150
2100
2050
2000
1950

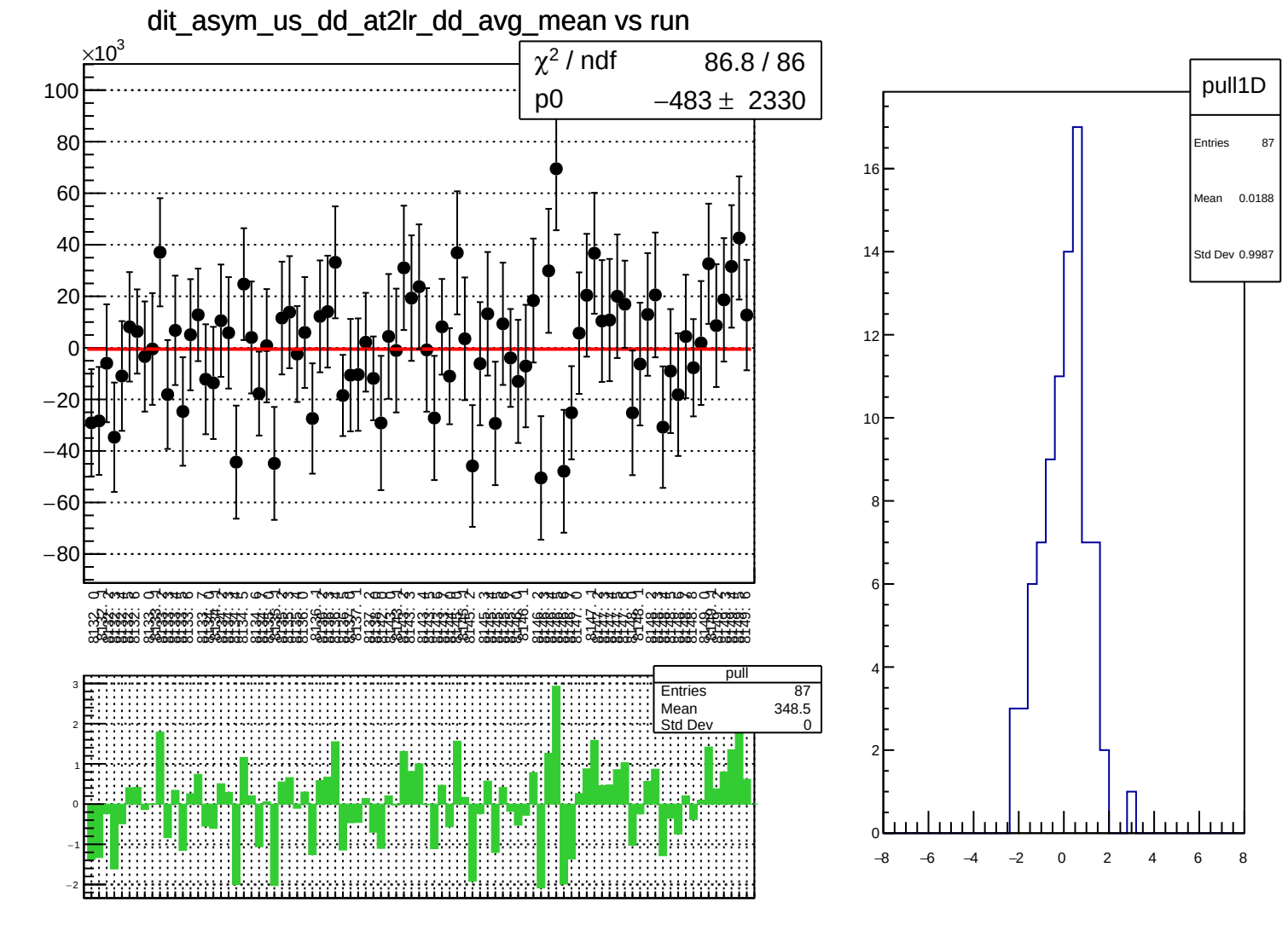
asym_us_dd_at2lr_dd_avg_eigen_cor_correction_mean vs run

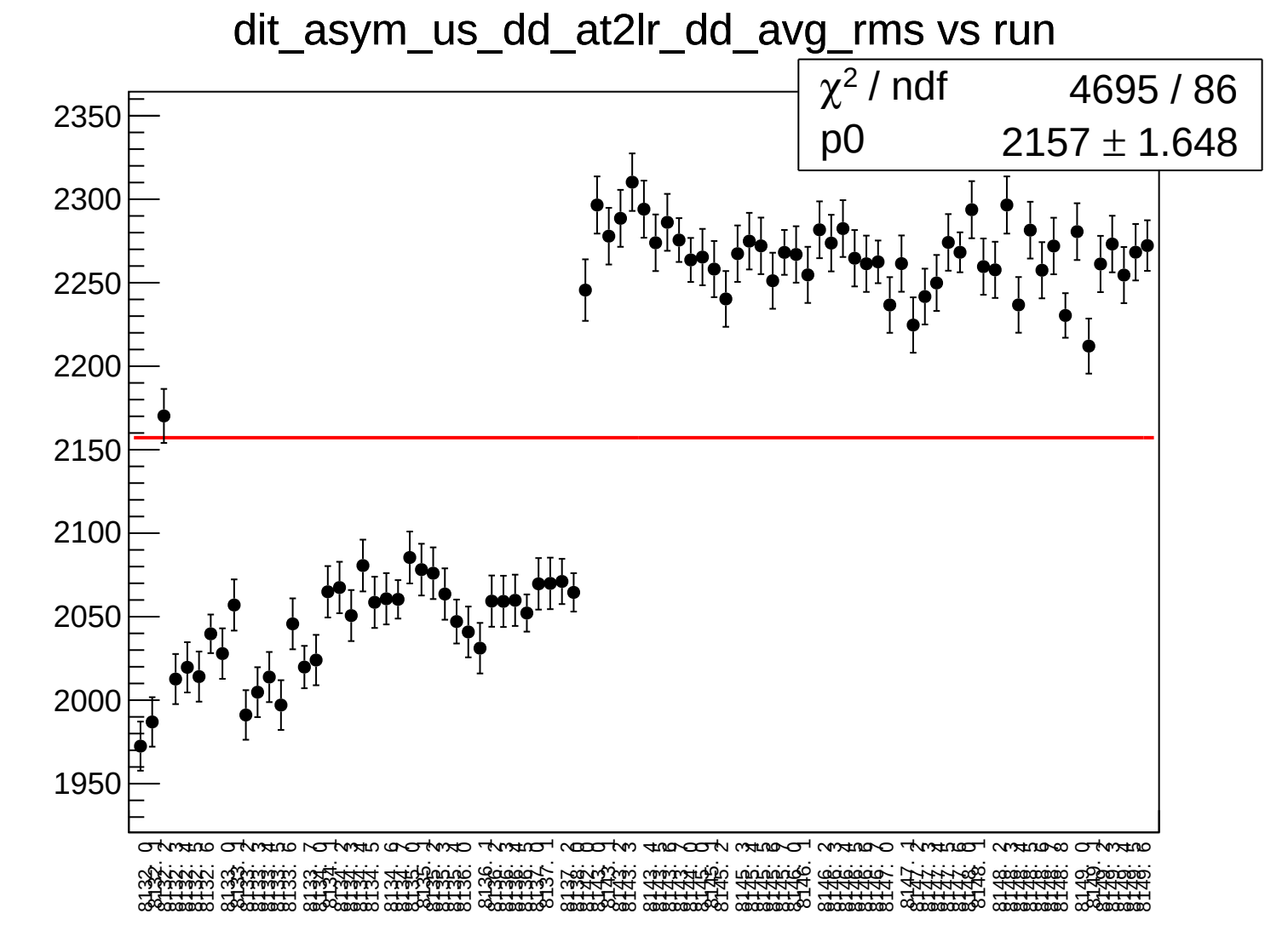


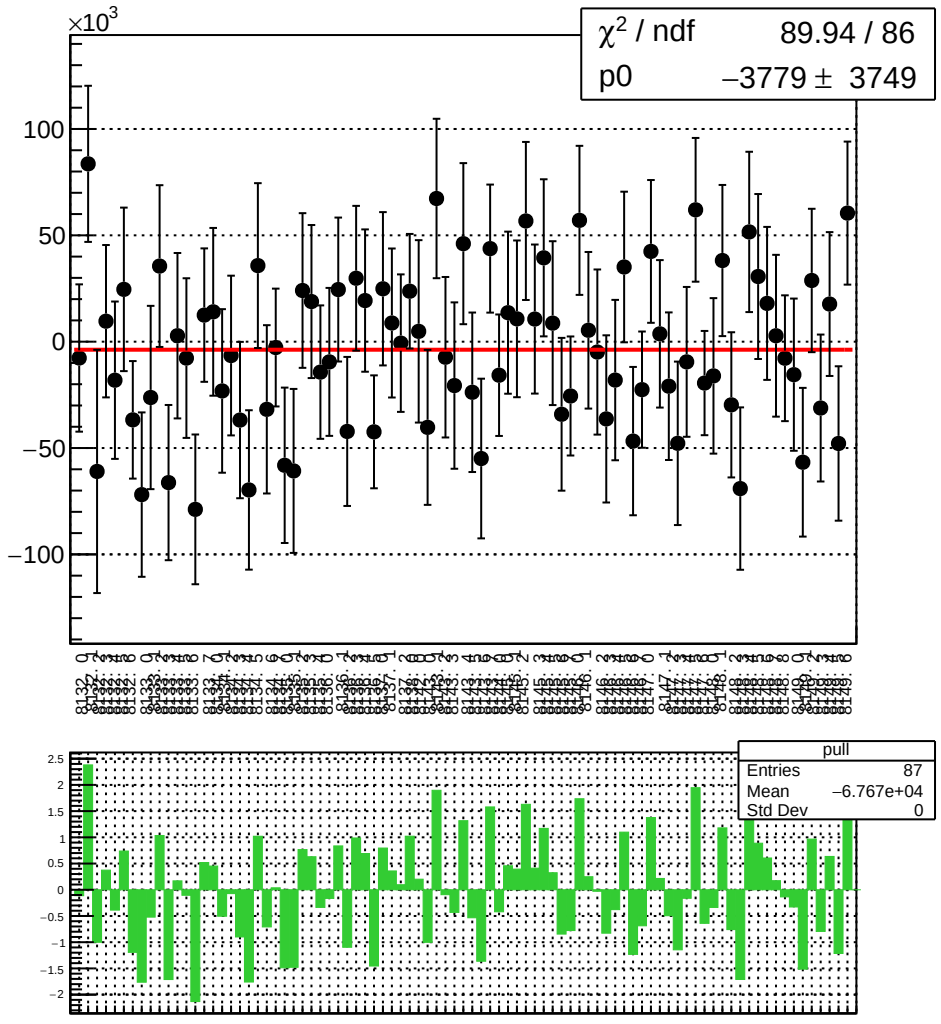


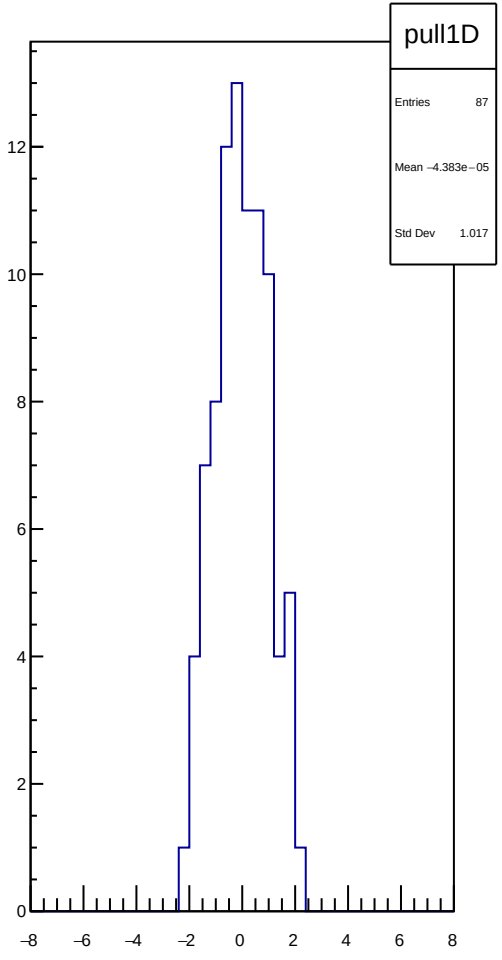


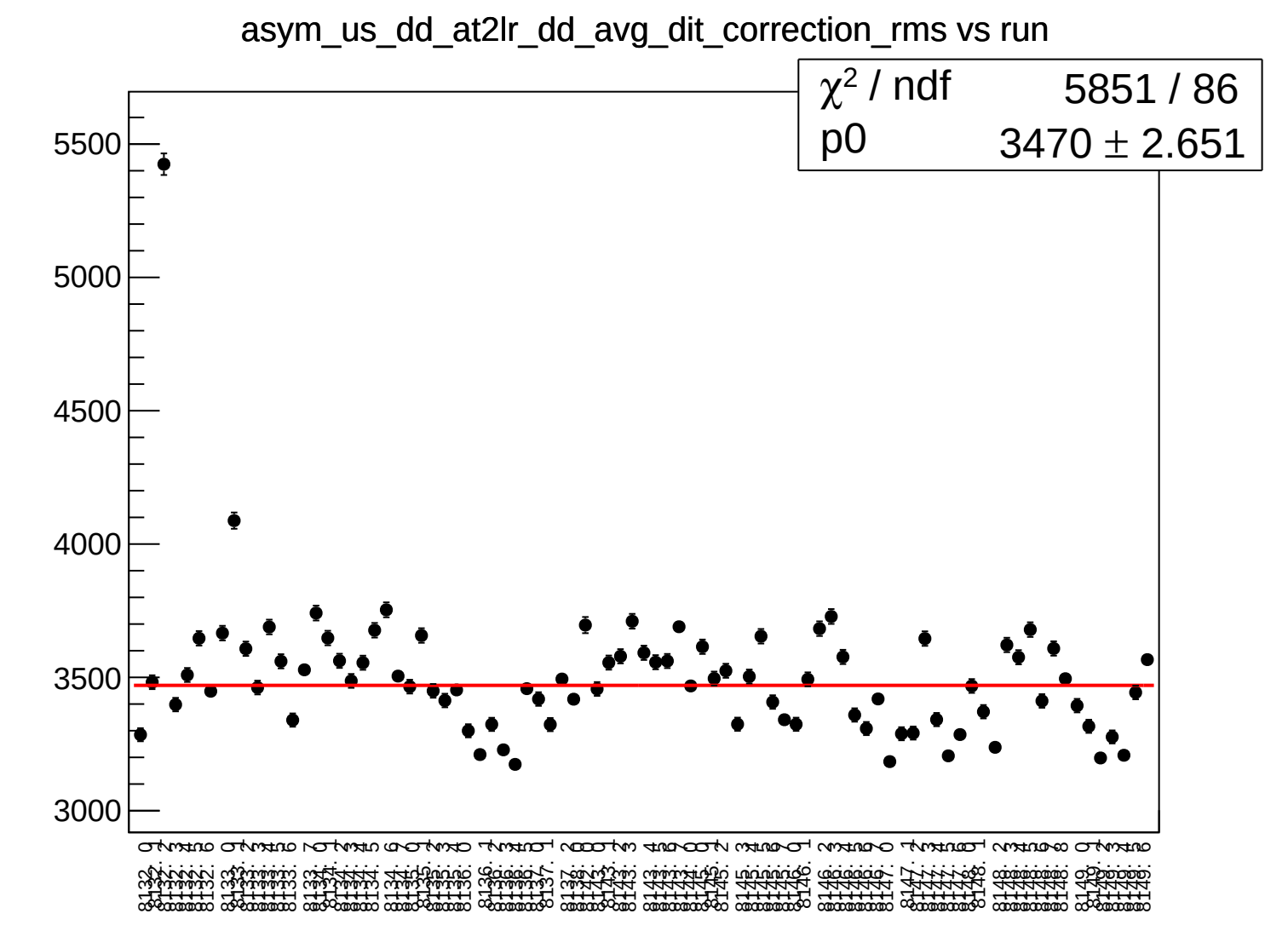

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 5024 / 86
p0 3441 ± 2.628
5000
4500
4000
3500
3000

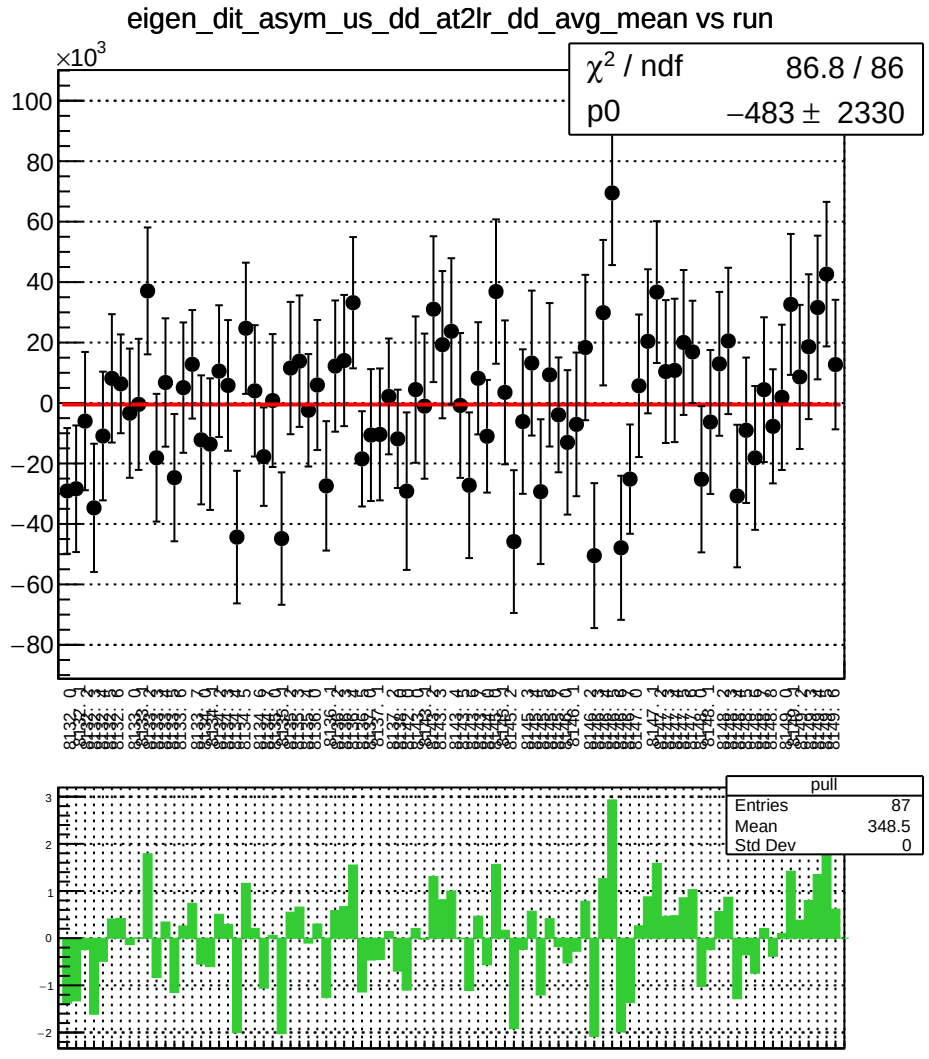

dit_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 86.8 / 86
p0 −483 ± 2330
pull
Entries 87
Mean 348.5
Std Dev 0
pull1D
Entries 87
Mean 0.0188
Std Dev 0.9987

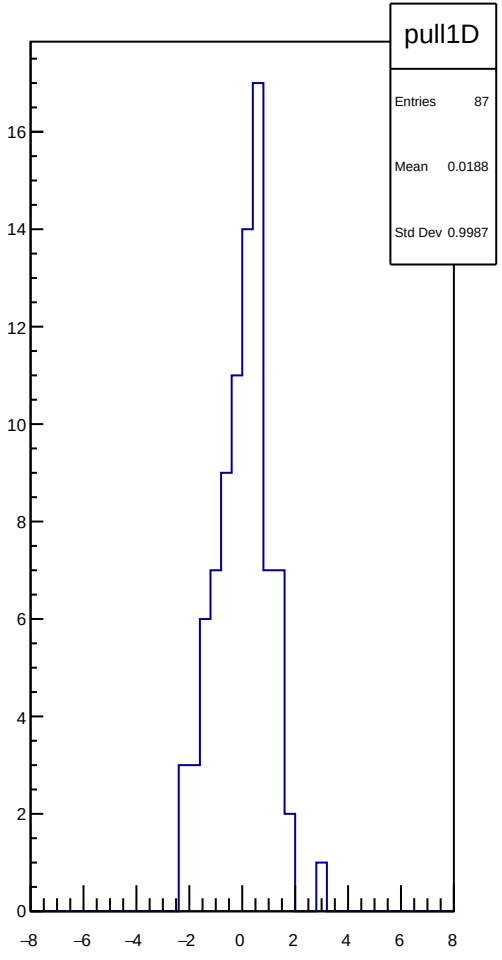

dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 4695 / 86
p0 2157 ± 1.648
2350
2300
2250
2200
2150
2100
2050
2000
1950

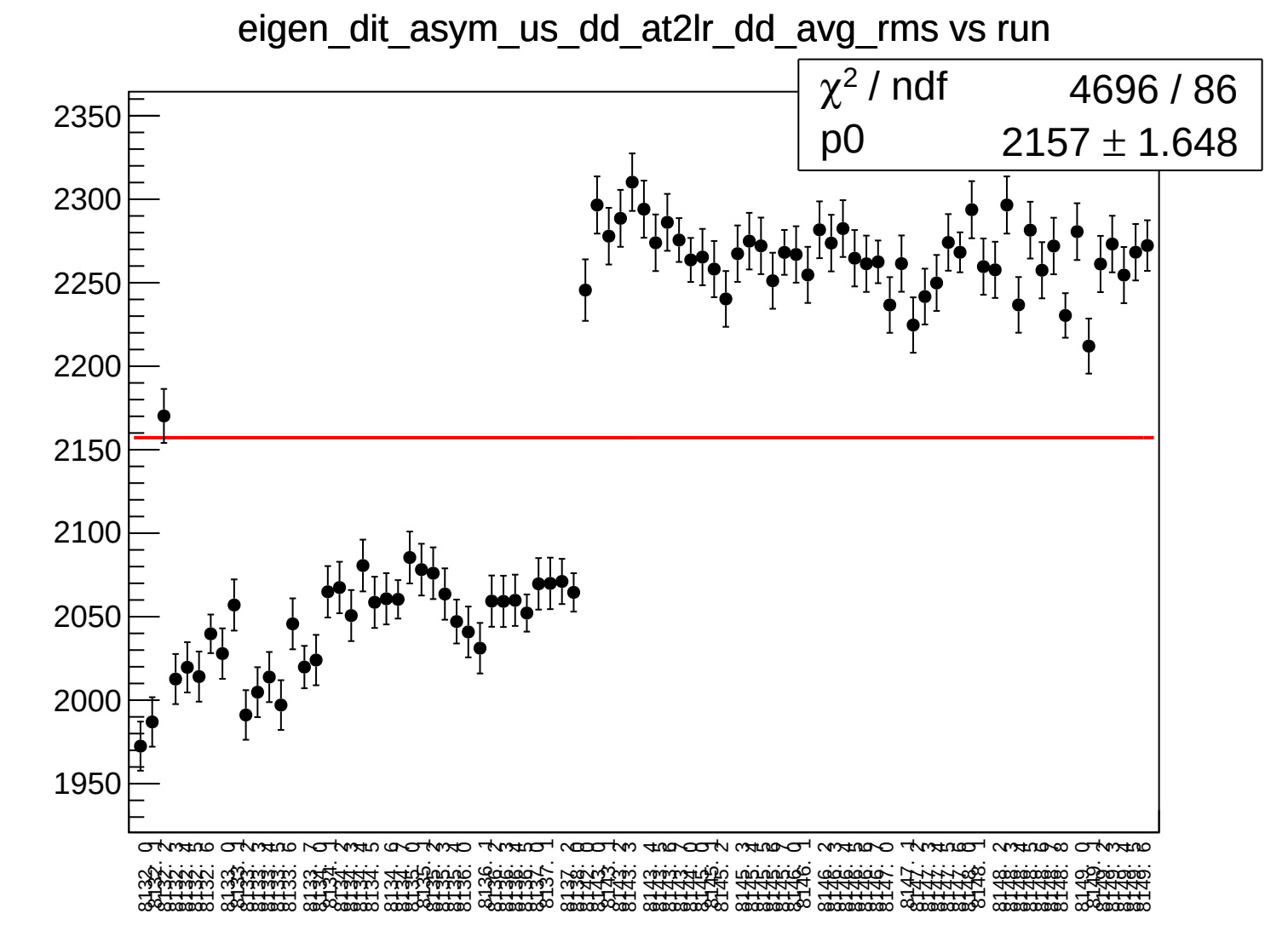

asym_us_dd_at2lr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 89.94 / 86
p0 −3779 ± 3749
100
50
0
−50
−100
pull
Entries 87
Mean −6.767e+04
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

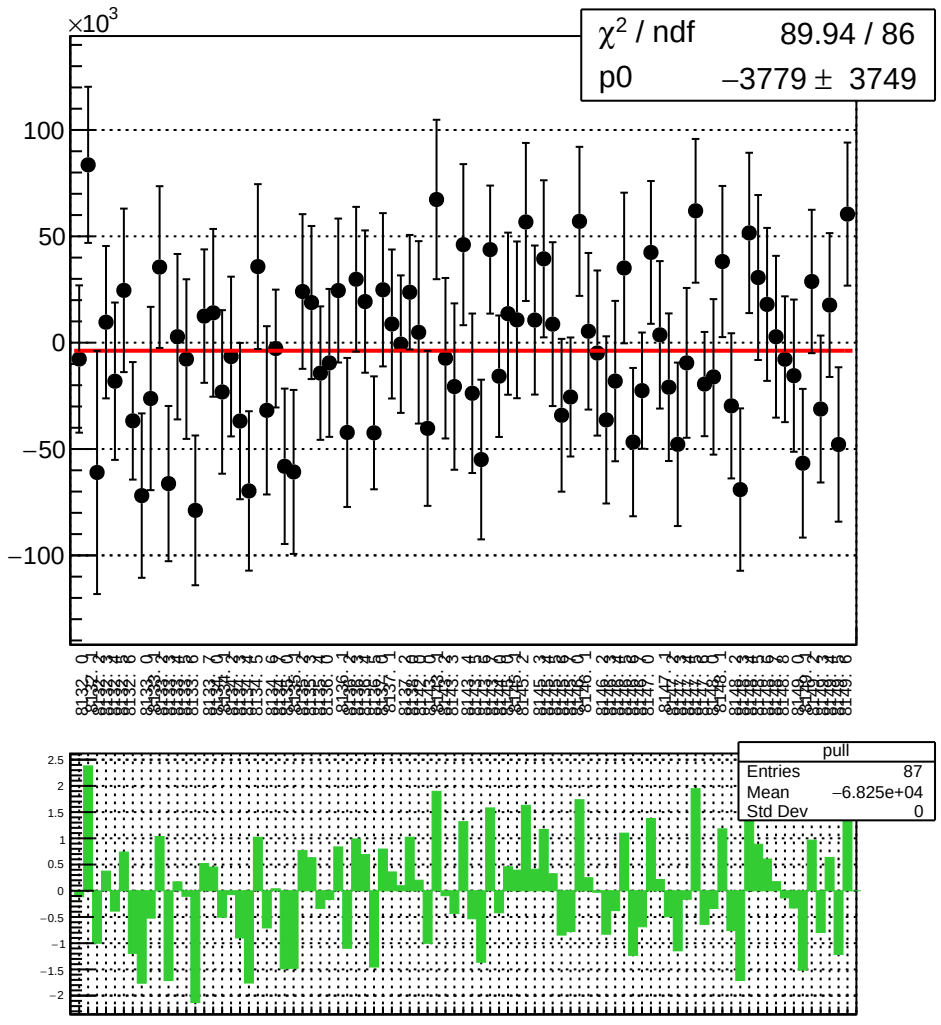

pull1D
Entries 87
Mean −4.383e−05
Std Dev 1.017
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

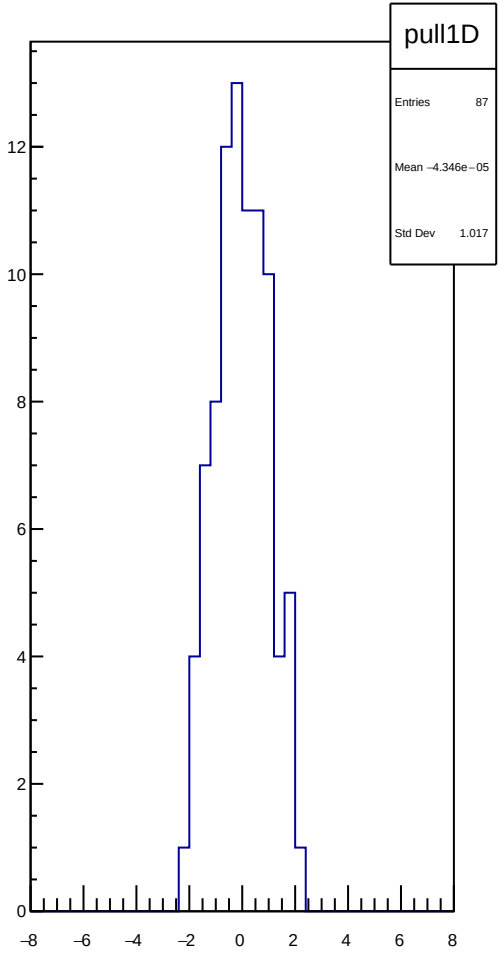

asym_us_dd_at2lr_dd_avg_dit_correction_rms vs run
χ² / ndf 5851 / 86
p0 3470 ± 2.651
5500
5000
4500
4000
3500
3000

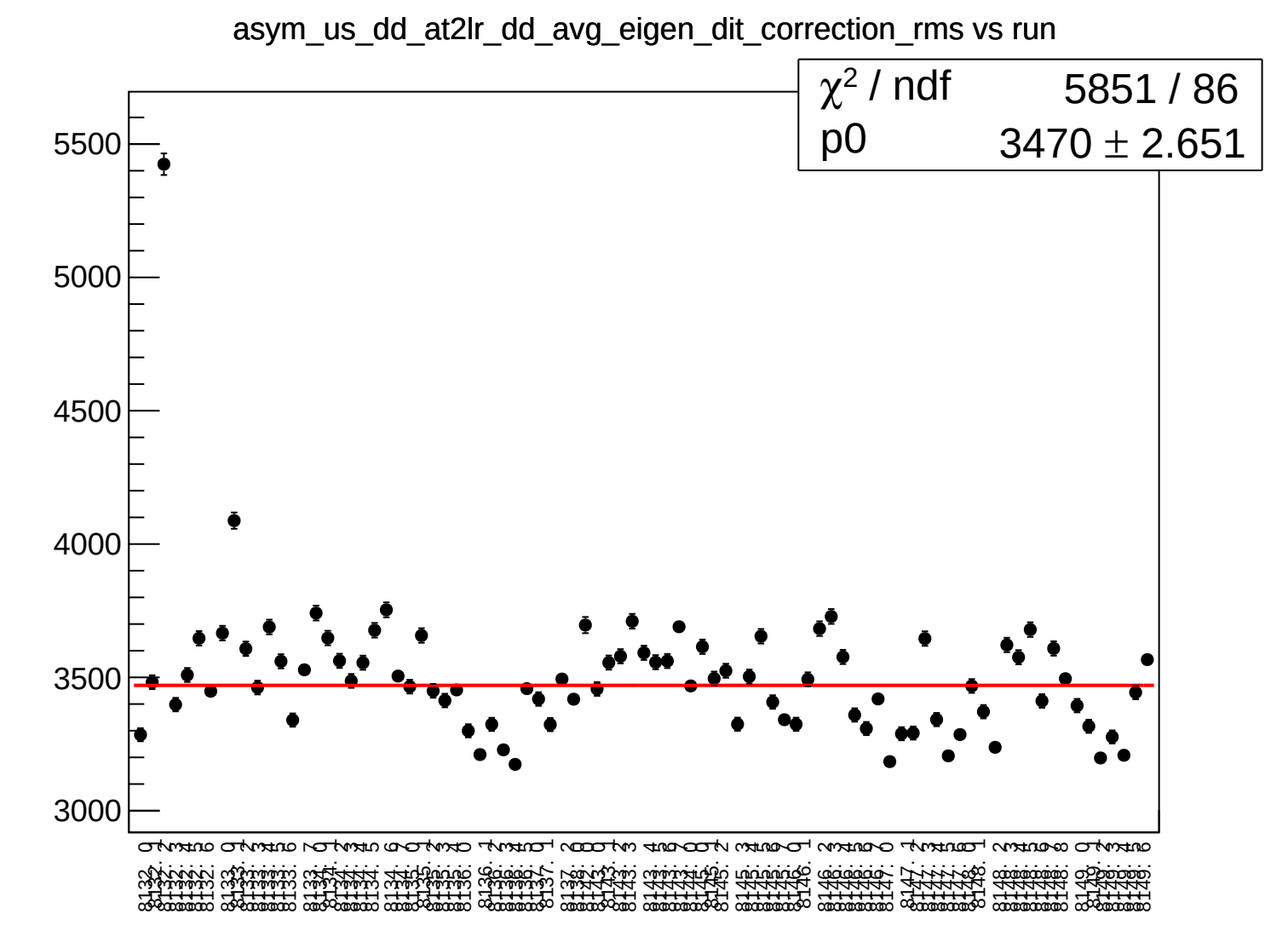

eigen_dit_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 86.8 / 86
p0 −483 ± 2330
pull
Entries 87
Mean 348.5
Std Dev 0

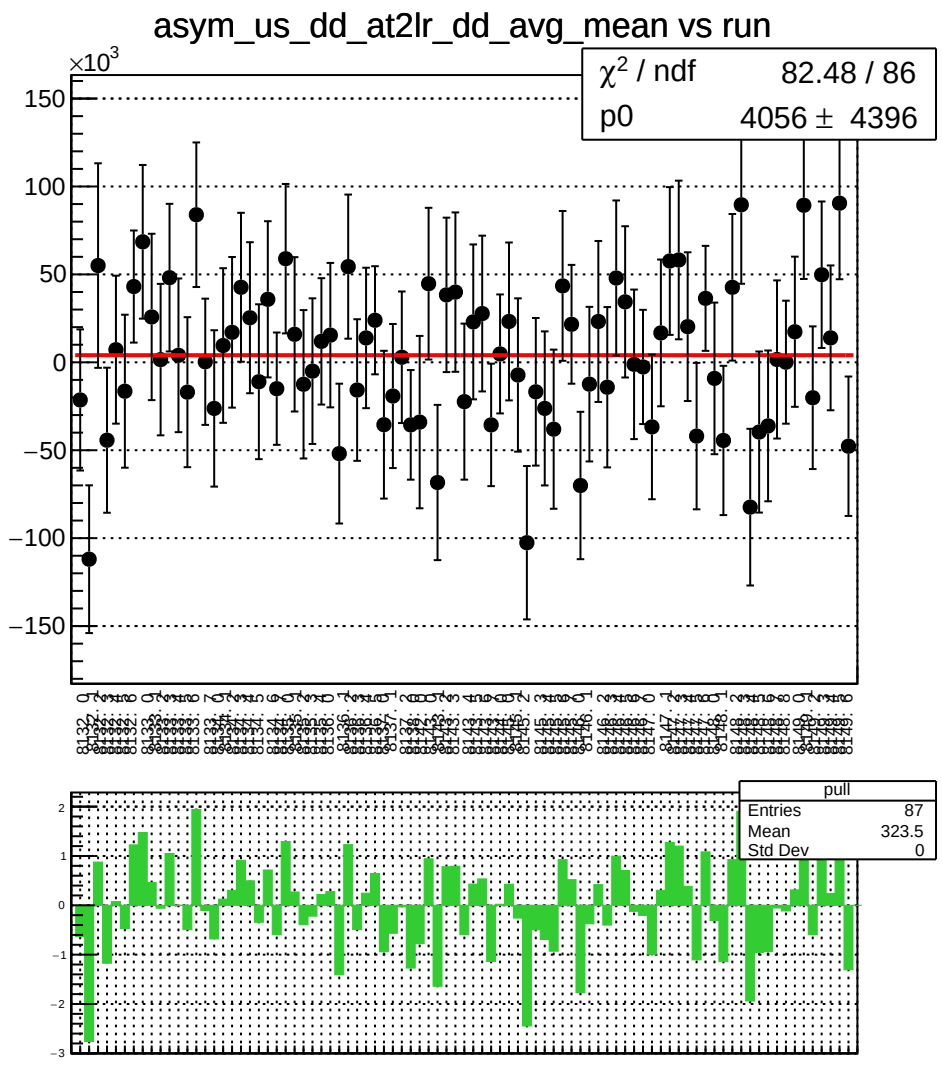

pull1D
Entries 87
Mean 0.0188
Std Dev 0.9987

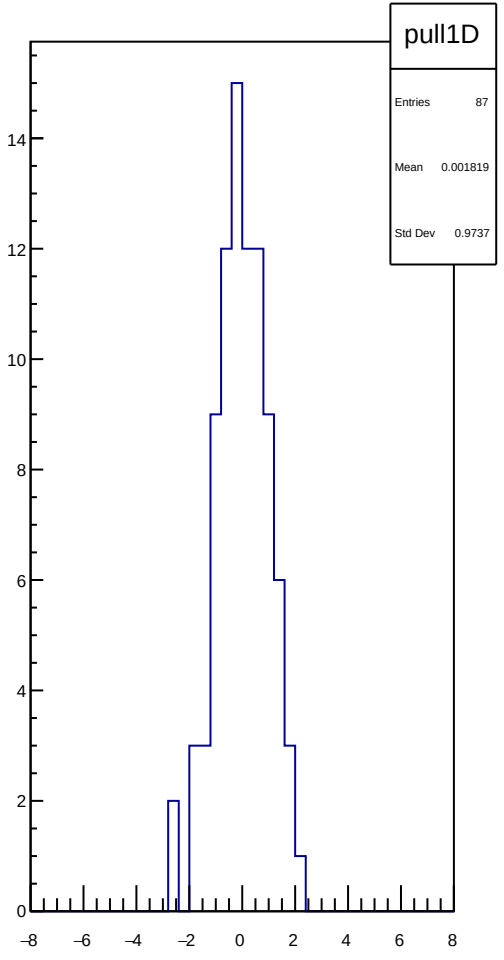

eigen_dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 4696 / 86
p0 2157 ± 1.648
2350
2300
2250
2200
2150
2100
2050
2000
1950

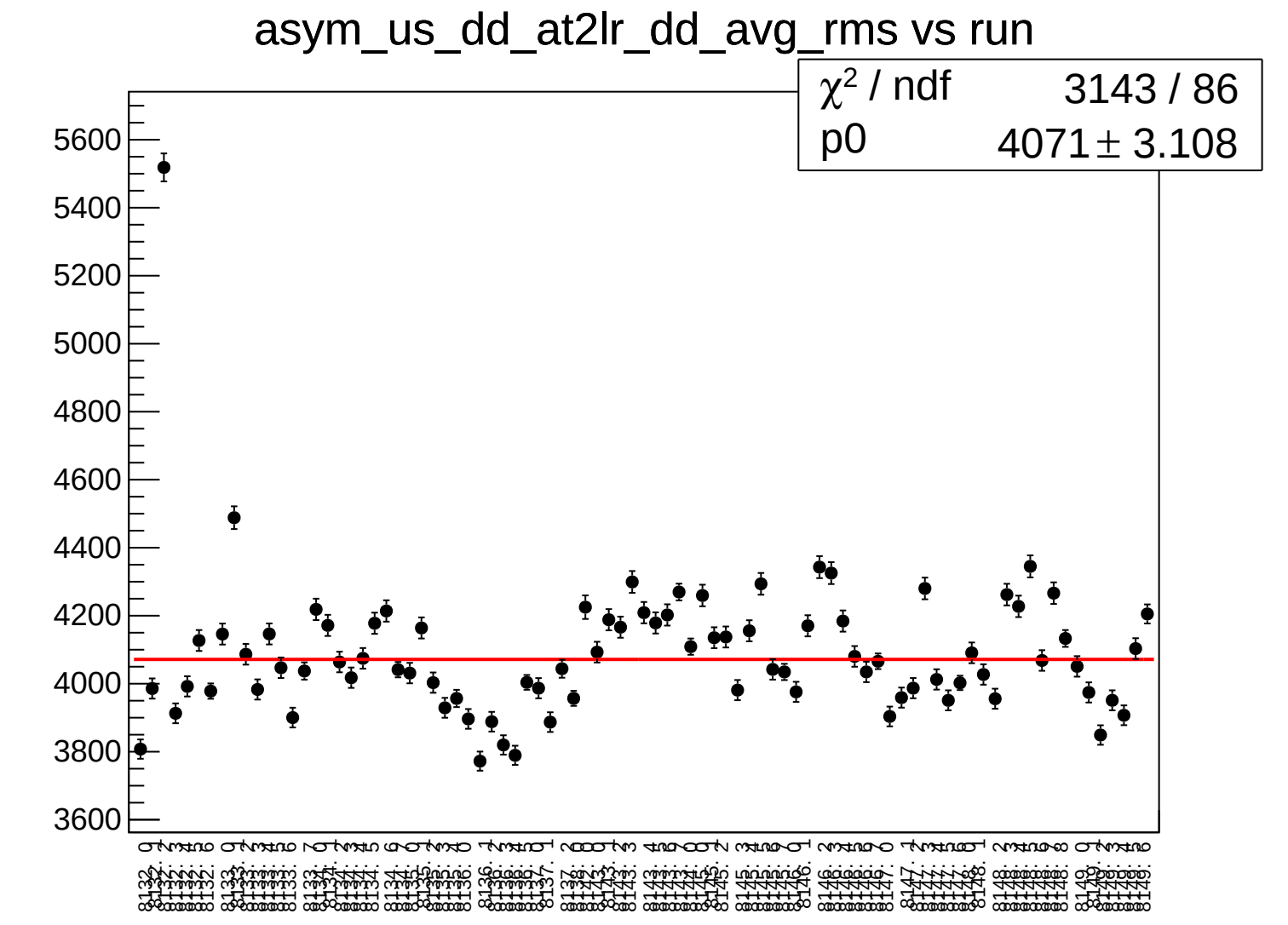

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 89.94 / 86
p0 −3779 ± 3749
100
50
0
−50
−100
pull
Entries 87
Mean −6.825e+04
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

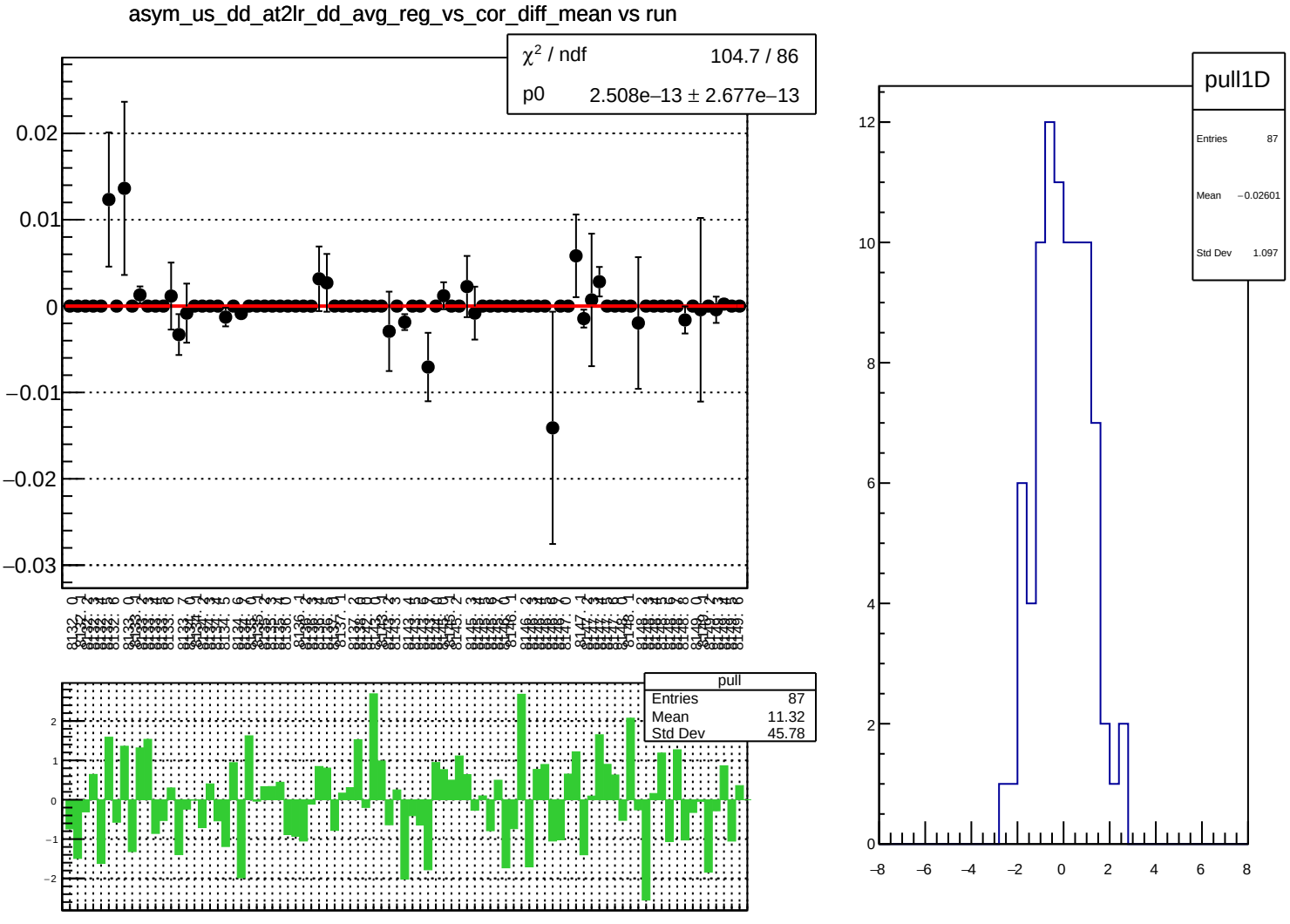

pull1D
Entries 87
Mean −4.346e−05
Std Dev 1.017
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

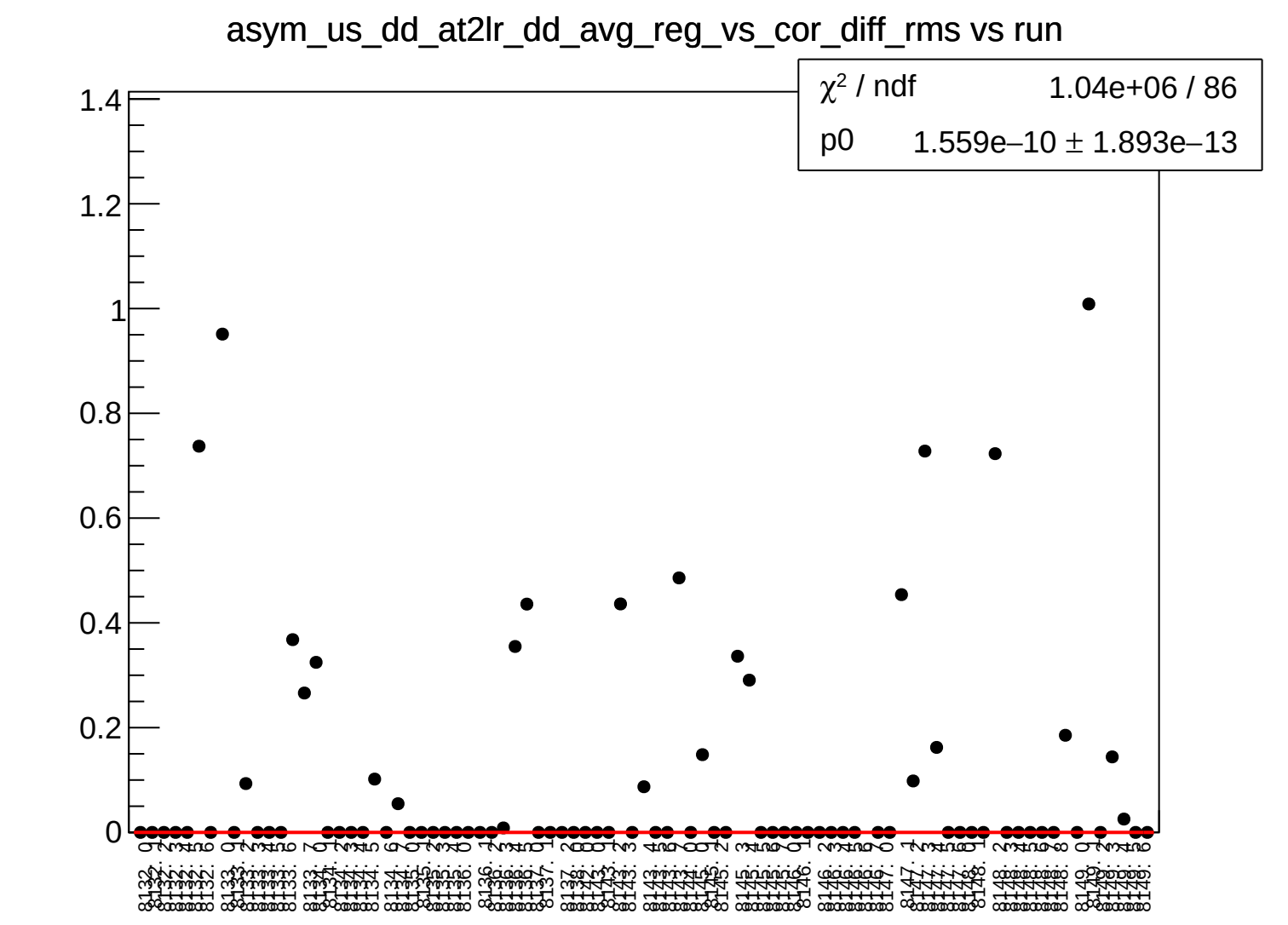

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 5851 / 86
p0 3470 ± 2.651
5500
5000
4500
4000
3500
3000

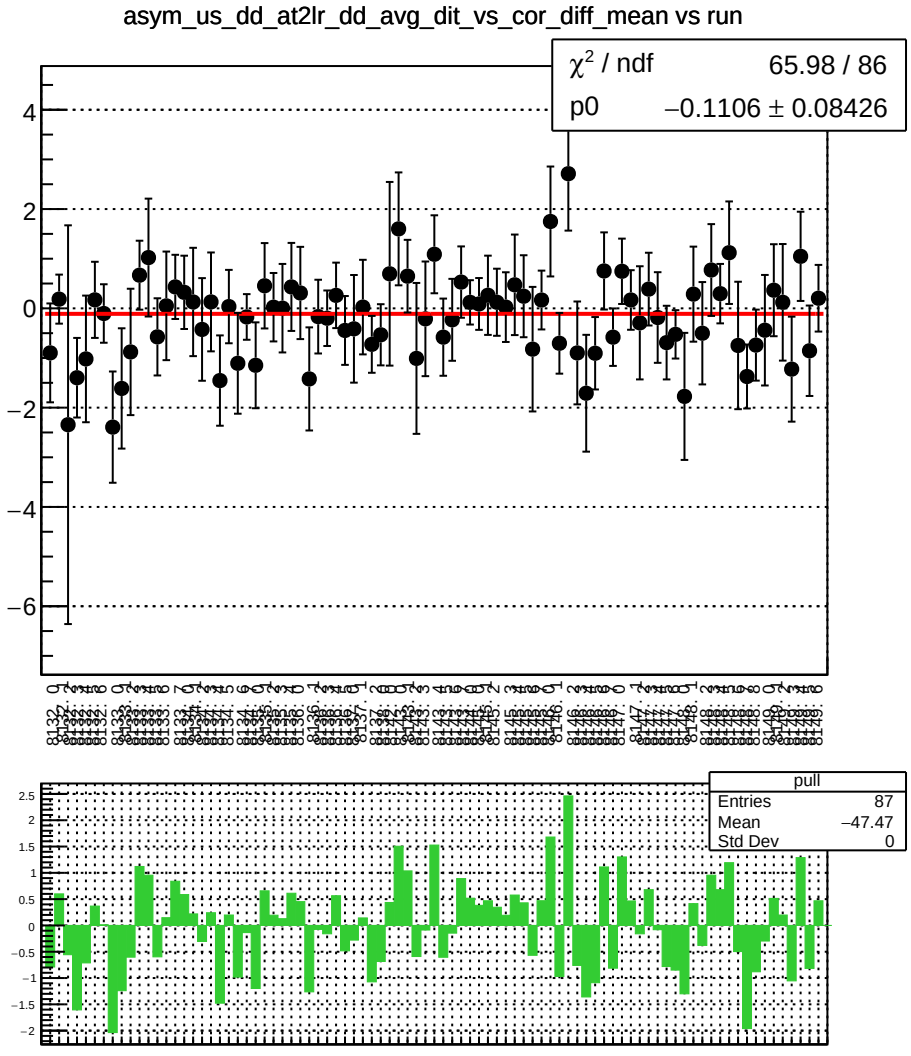

asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 82.48 / 86
p0 4056 ± 4396
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean 323.5
Std Dev 0
2
1
0
−1
−2
−3

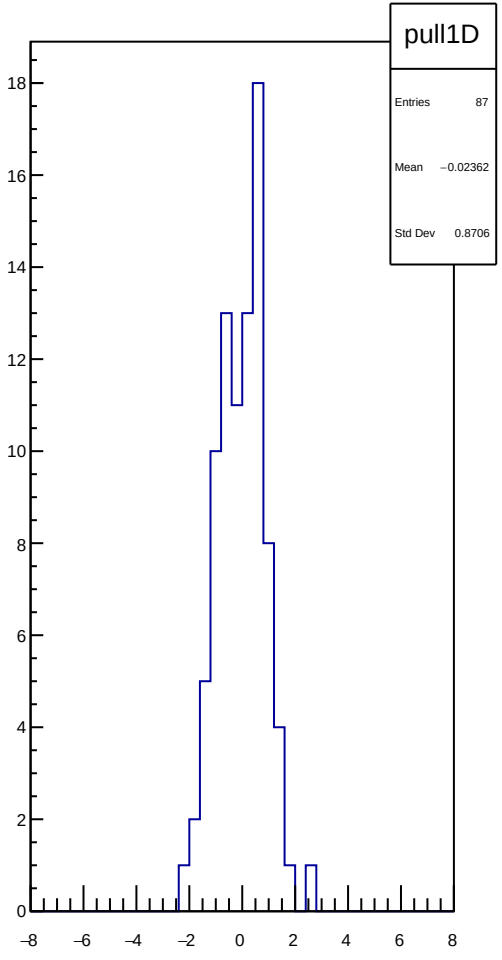

pull1D
Entries 87
Mean 0.001819
Std Dev 0.9737
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

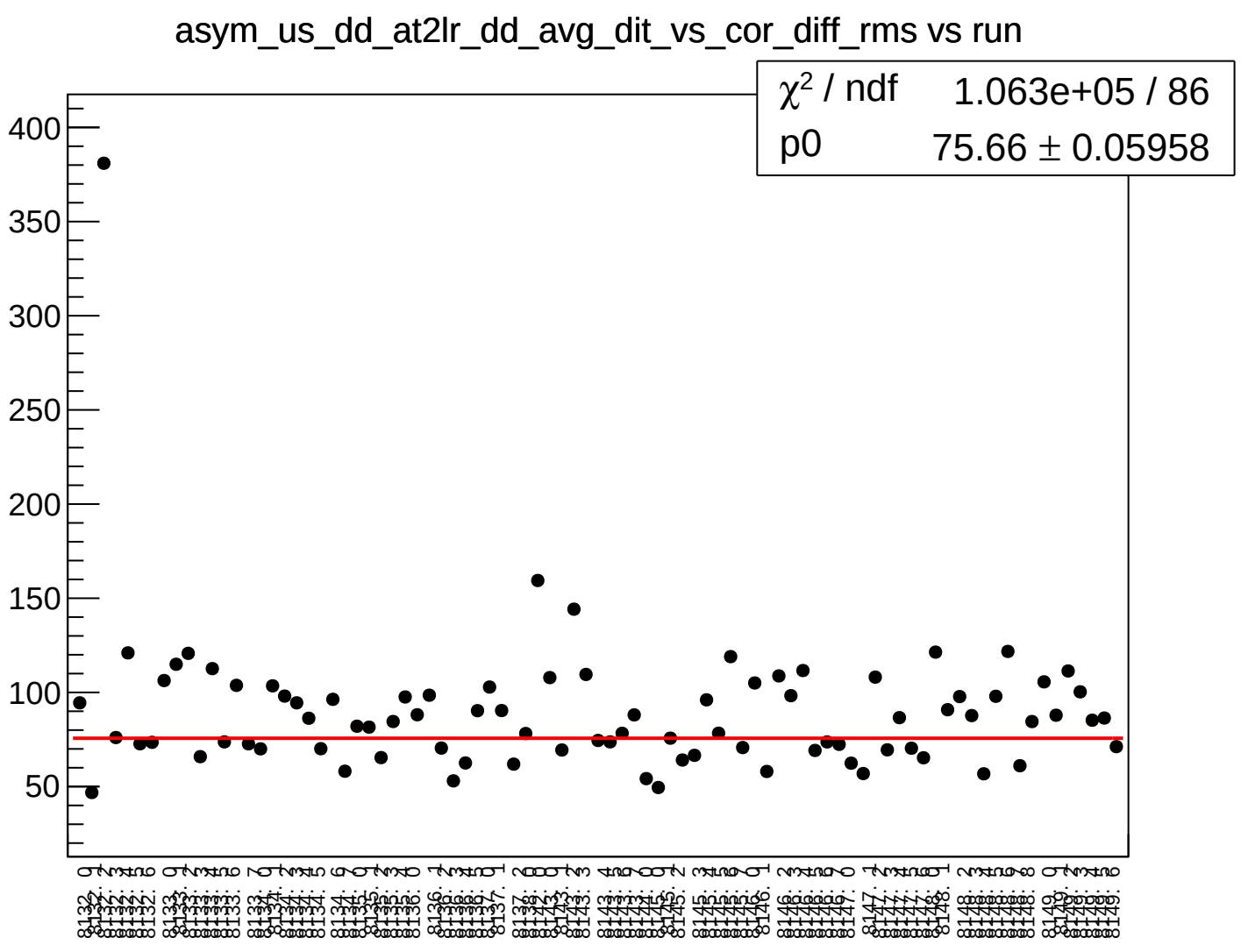

asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 3143 / 86
p0 4071 ± 3.108
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600

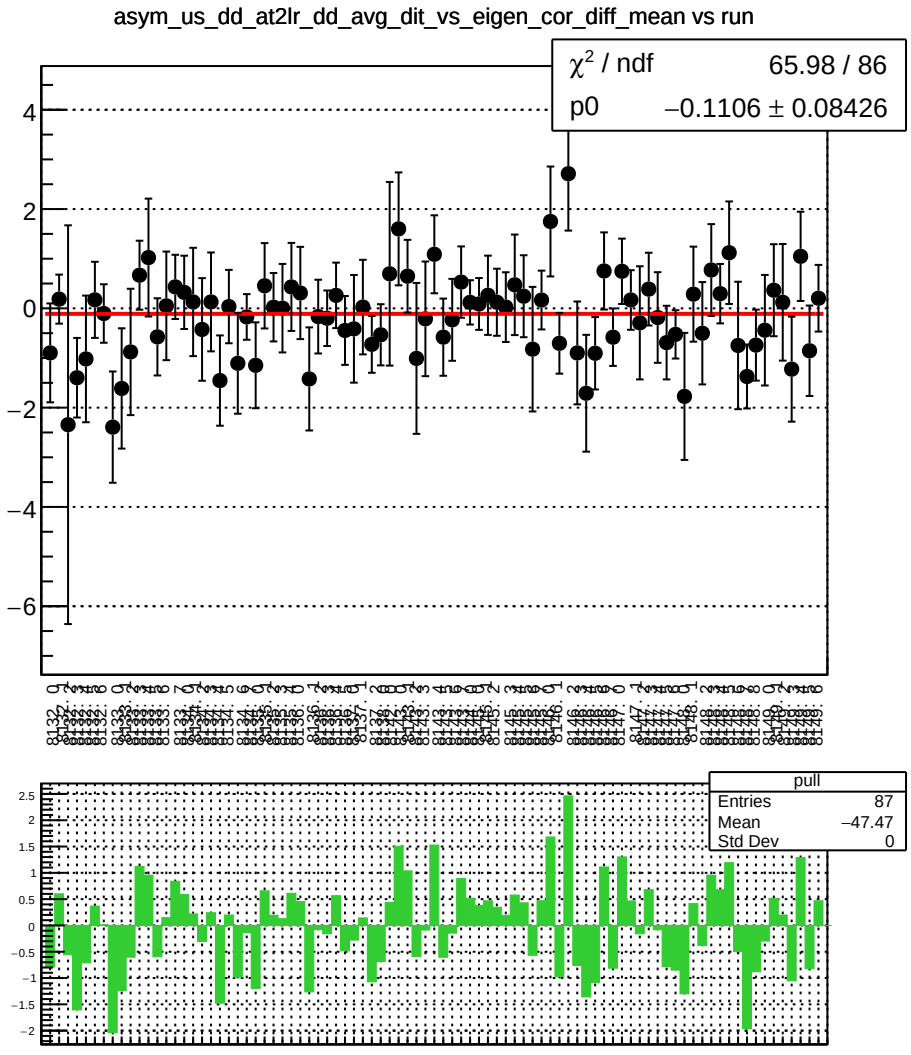

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 104.7 / 86
p0 2.508e−13 ± 2.677e−13
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 87
Mean 11.32
Std Dev 45.78
pull1D
Entries 87
Mean −0.02601
Std Dev 1.097
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

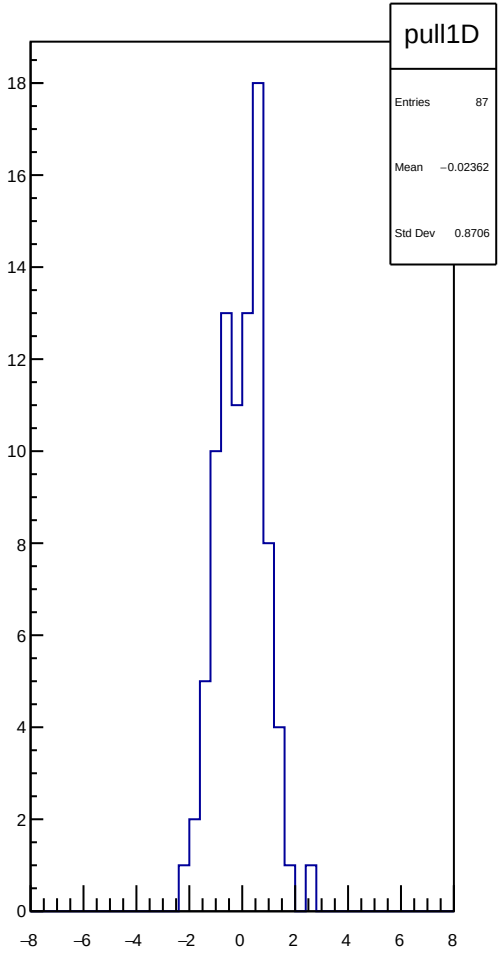

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.04e+06 / 86
p0 1.559e−10 ± 1.893e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

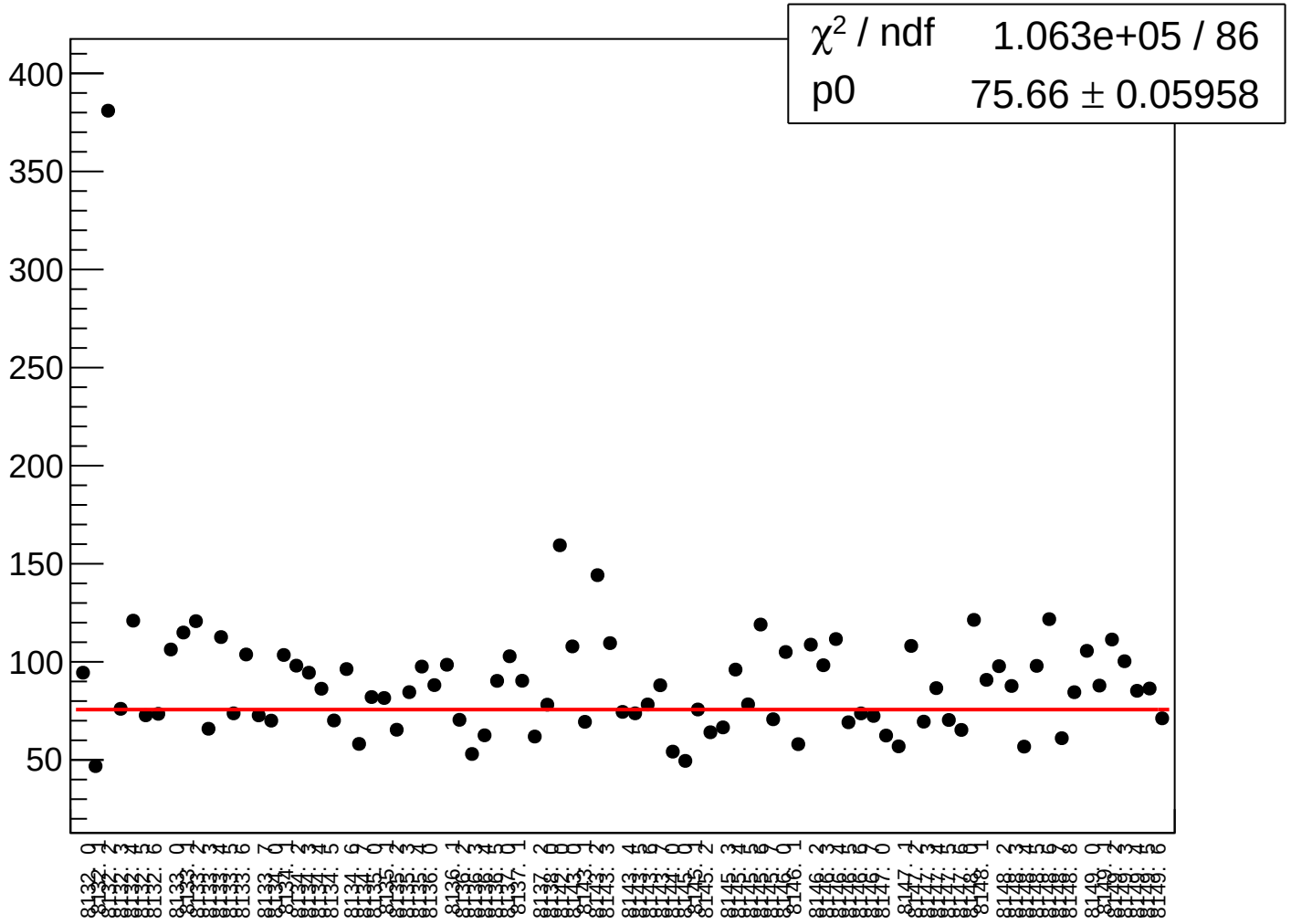

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 65.98 / 86
p0 −0.1106 ± 0.08426
pull
Entries 87
Mean −47.47
Std Dev 0

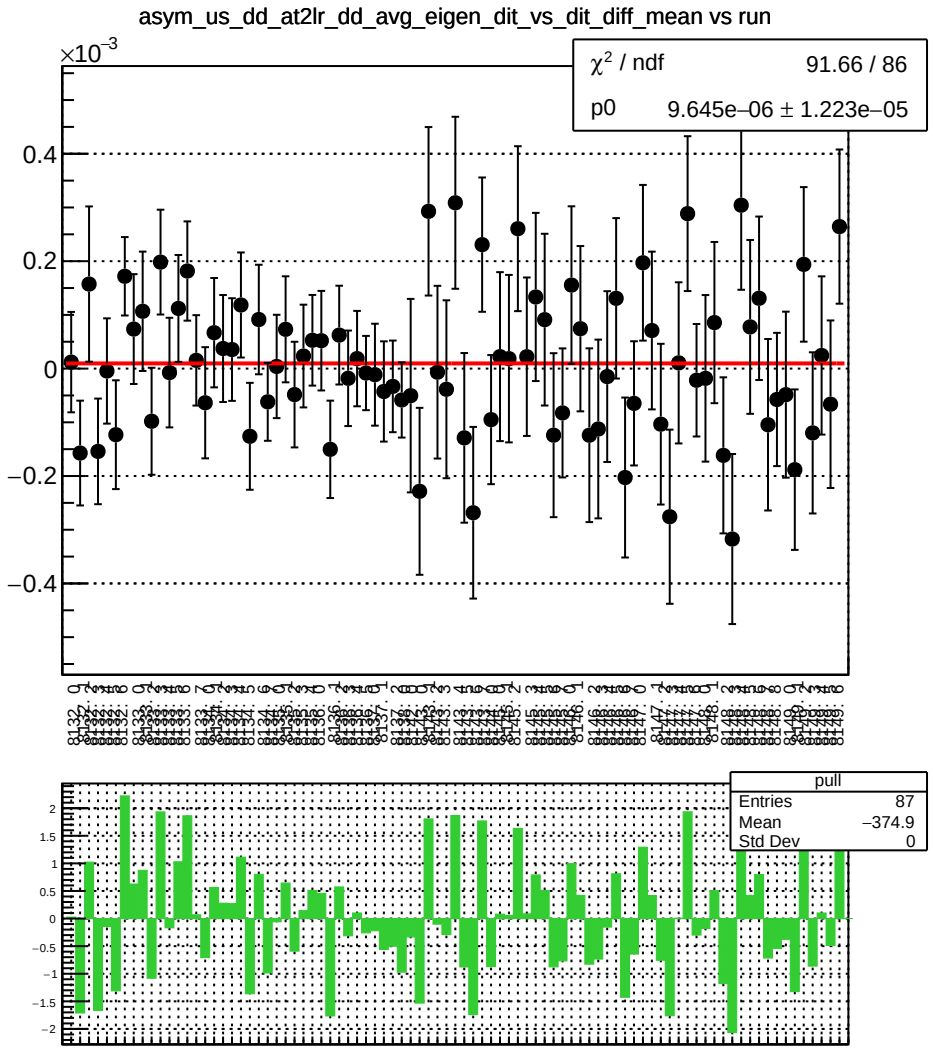

pull1D
Entries 87
Mean −0.02362
Std Dev 0.8706

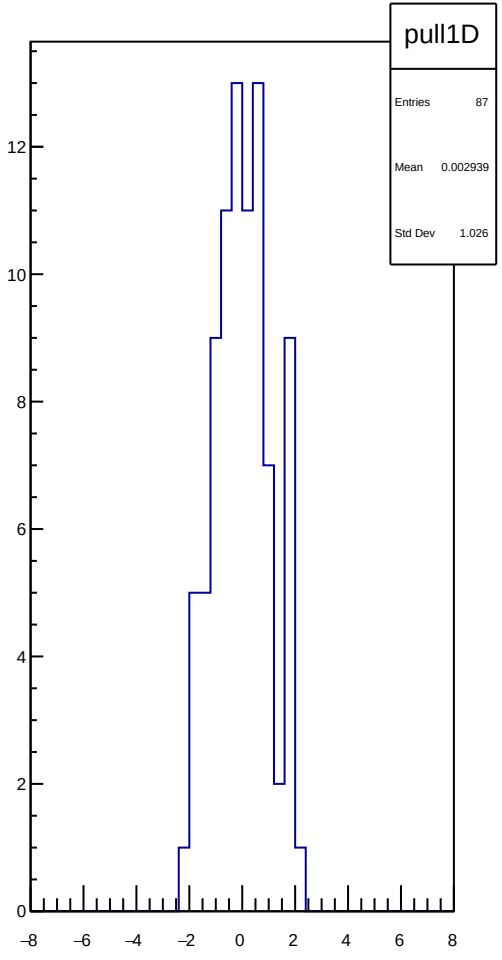

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.063e+05 / 86
p0 75.66 ± 0.05958
400
350
300
250
200
150
100
50

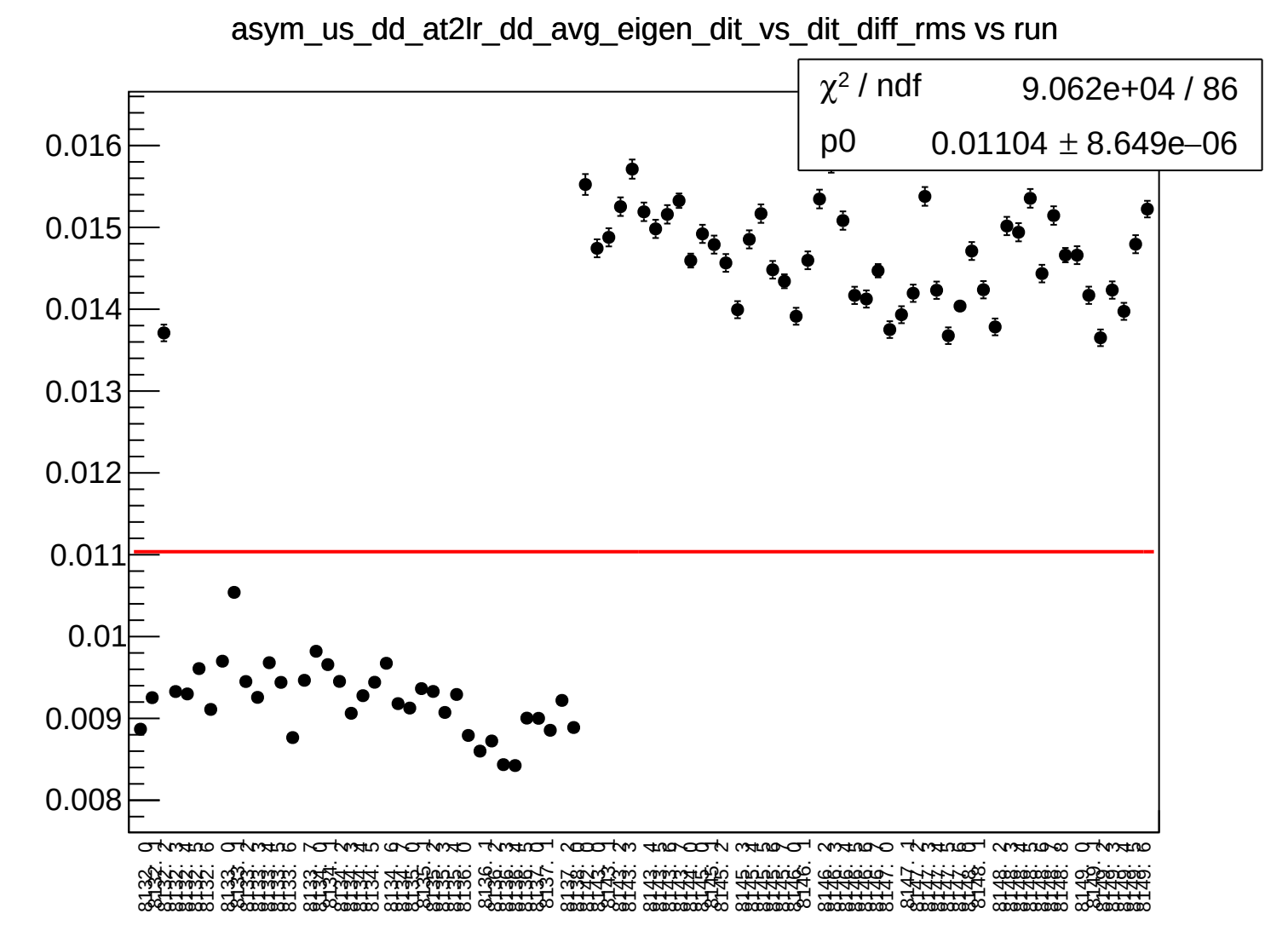

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.98 / 86
p0 −0.1106 ± 0.08426
pull
Entries 87
Mean −47.47
Std Dev 0

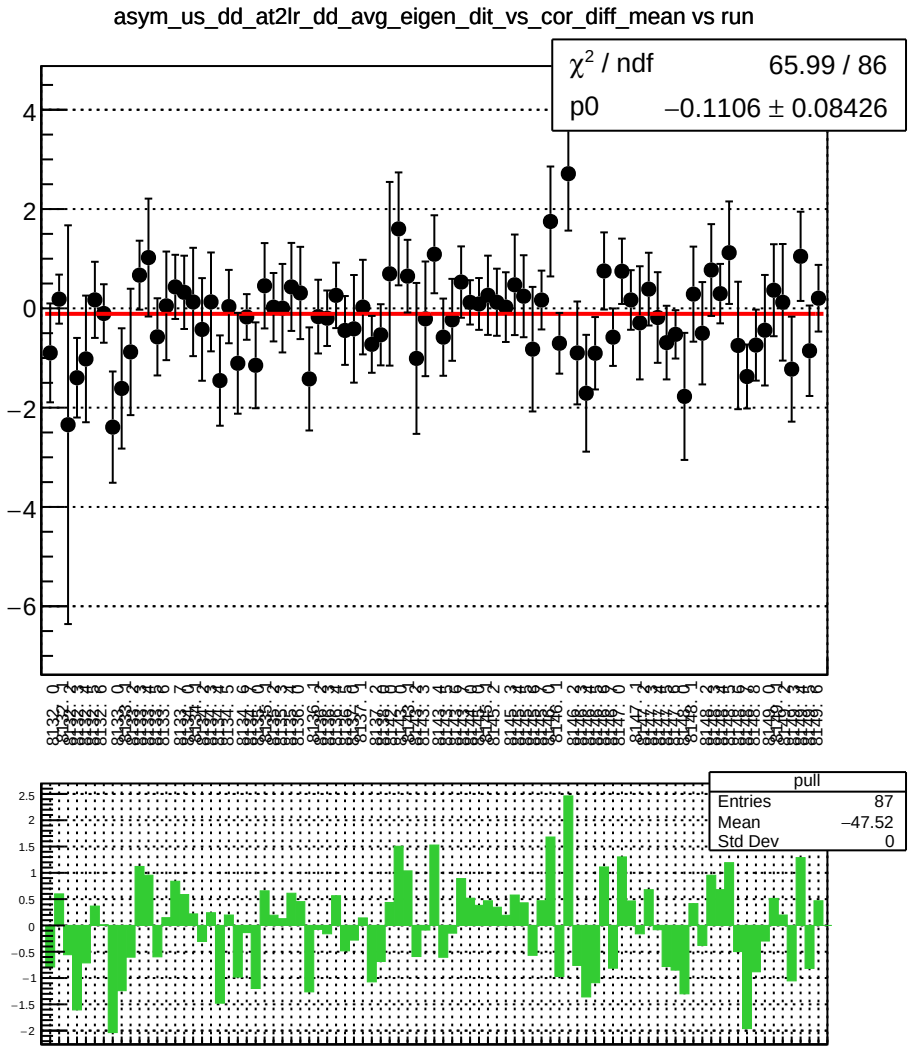

pull1D
Entries 87
Mean −0.02362
Std Dev 0.8706

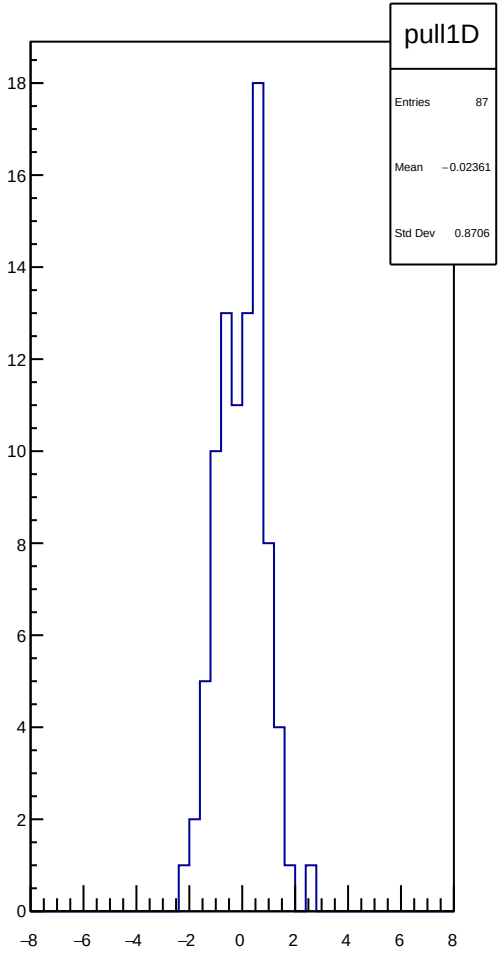

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.063e+05 / 86
p0 75.66 ± 0.05958
400
350
300
250
200
150
100
50

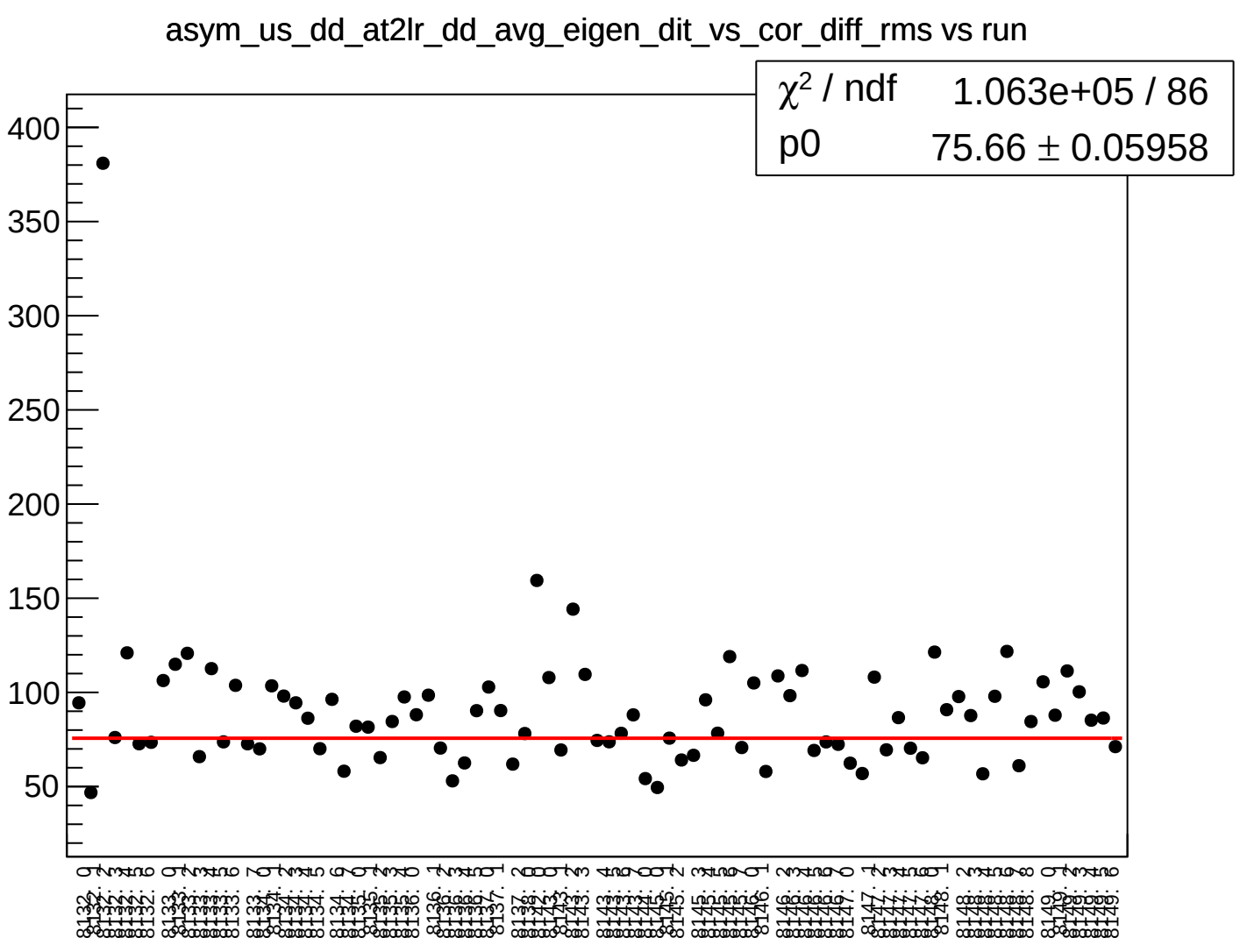

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.66 / 86
p0 9.645e−06 ± 1.223e−05
pull
Entries 87
Mean −374.9
Std Dev 0

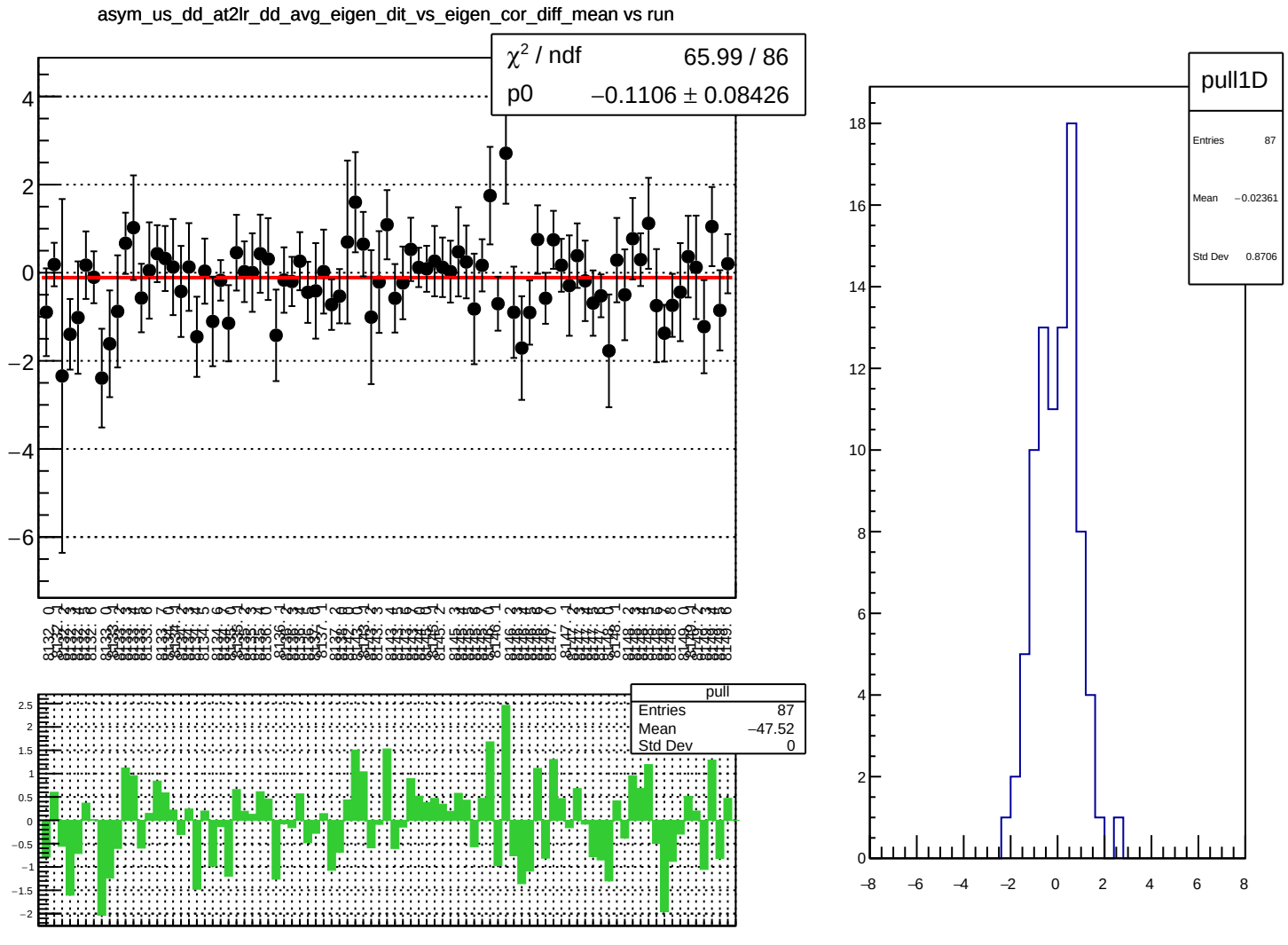

pull1D
Entries 87
Mean 0.002939
Std Dev 1.026

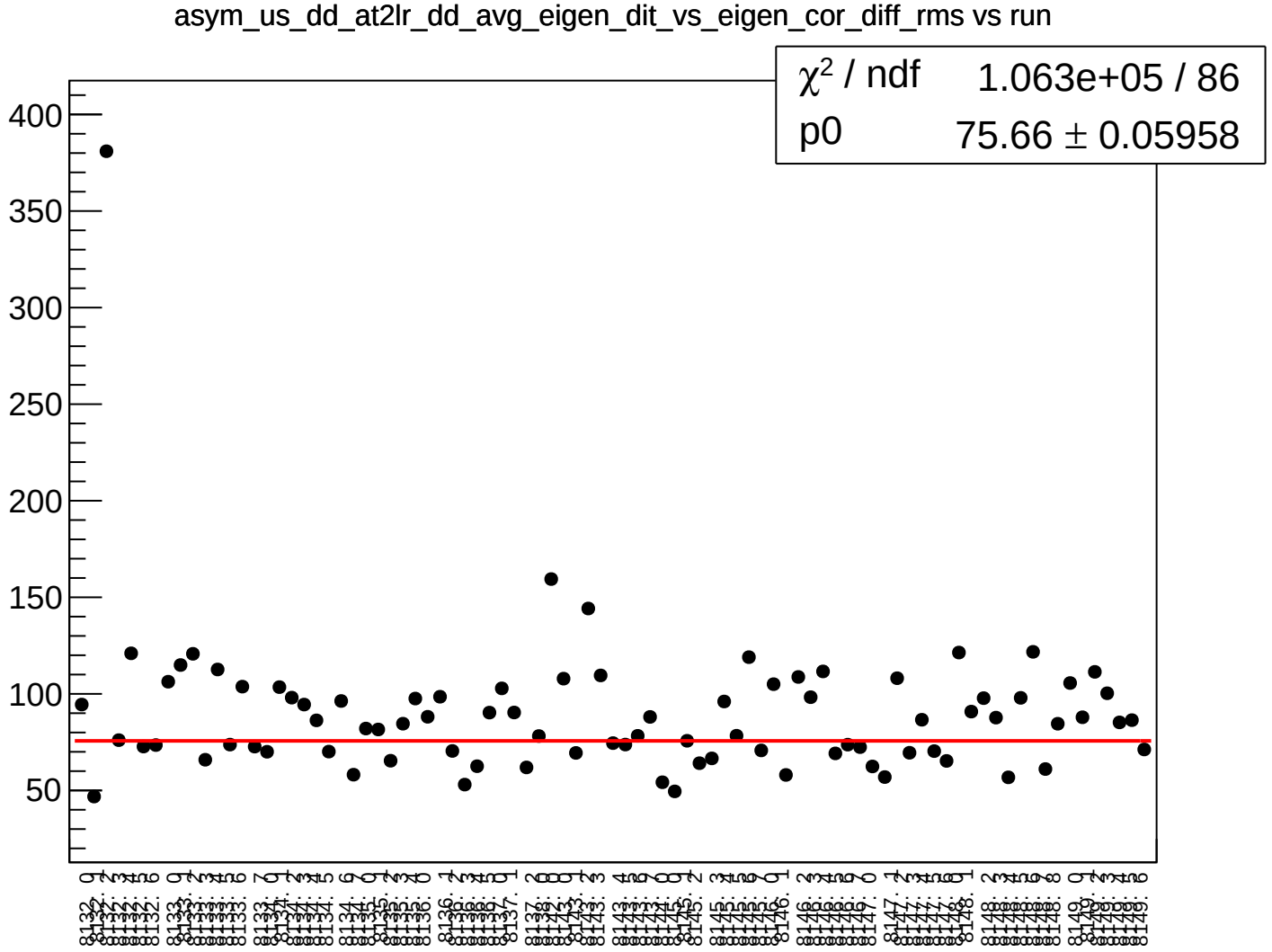

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.062e+04 / 86
p0 0.01104 ± 8.649e−06
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008

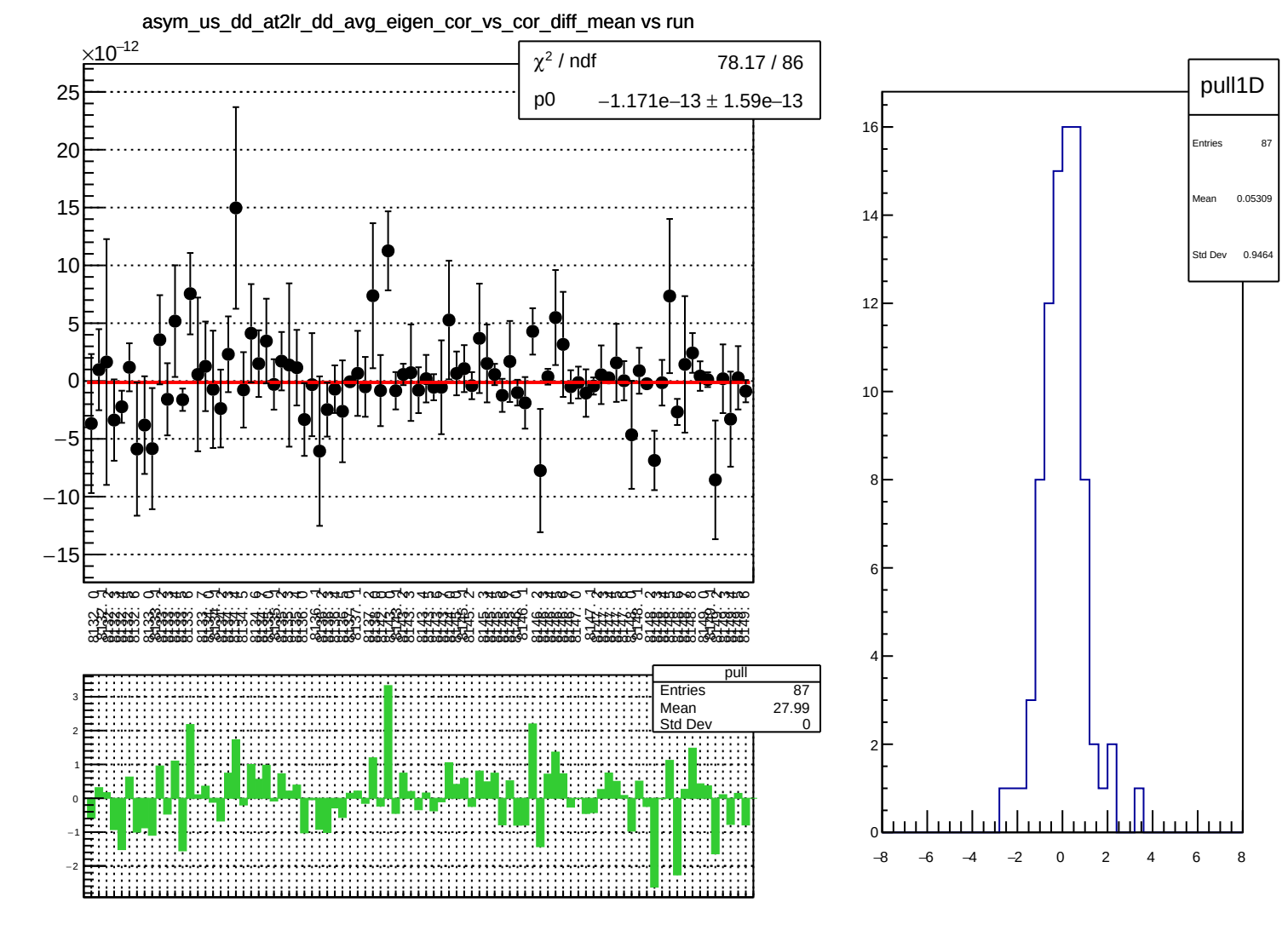

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 65.99 / 86
p0 −0.1106 ± 0.08426
pull
Entries 87
Mean −47.52
Std Dev 0

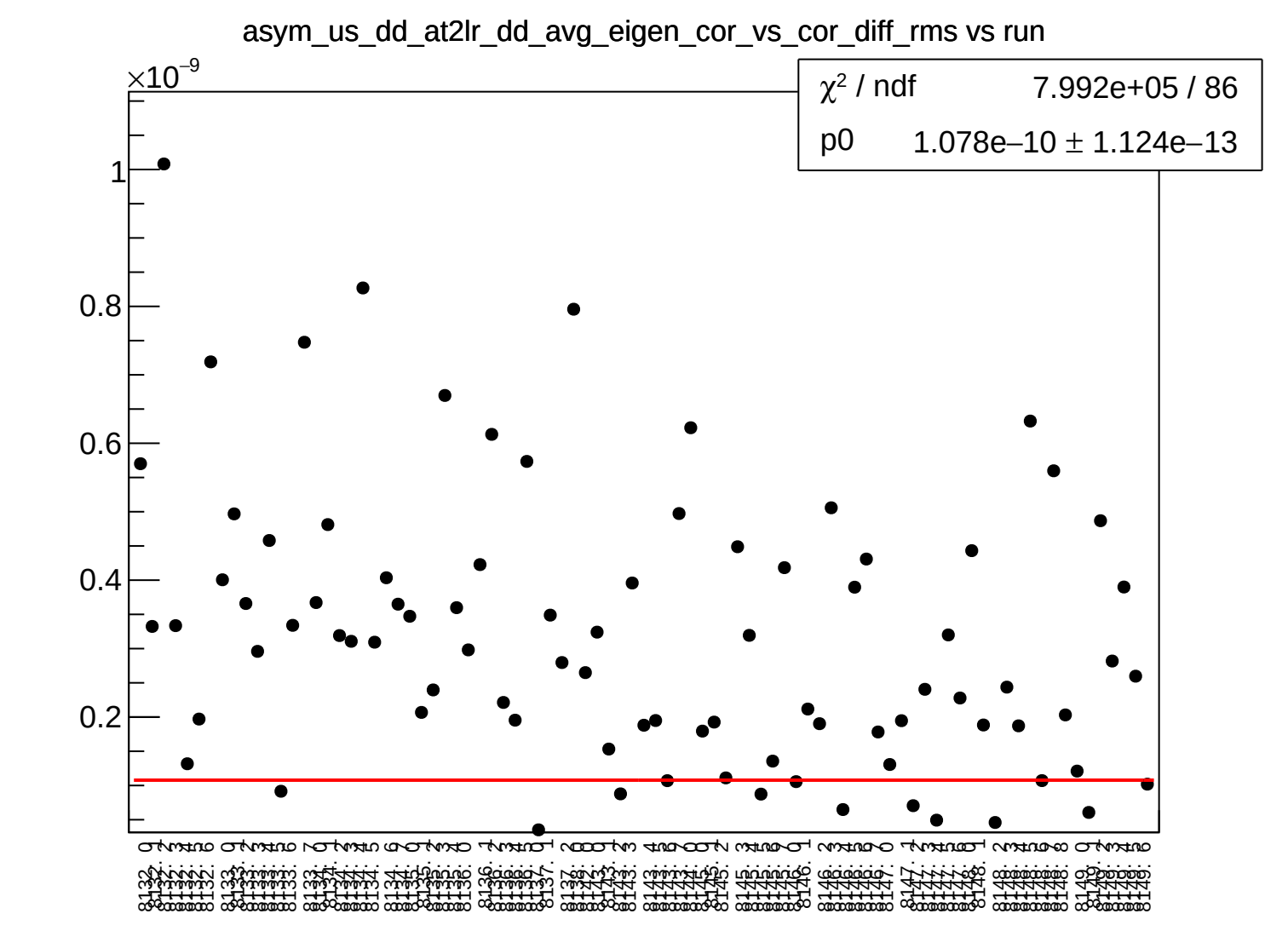

pull1D
Entries 87
Mean −0.02361
Std Dev 0.8706

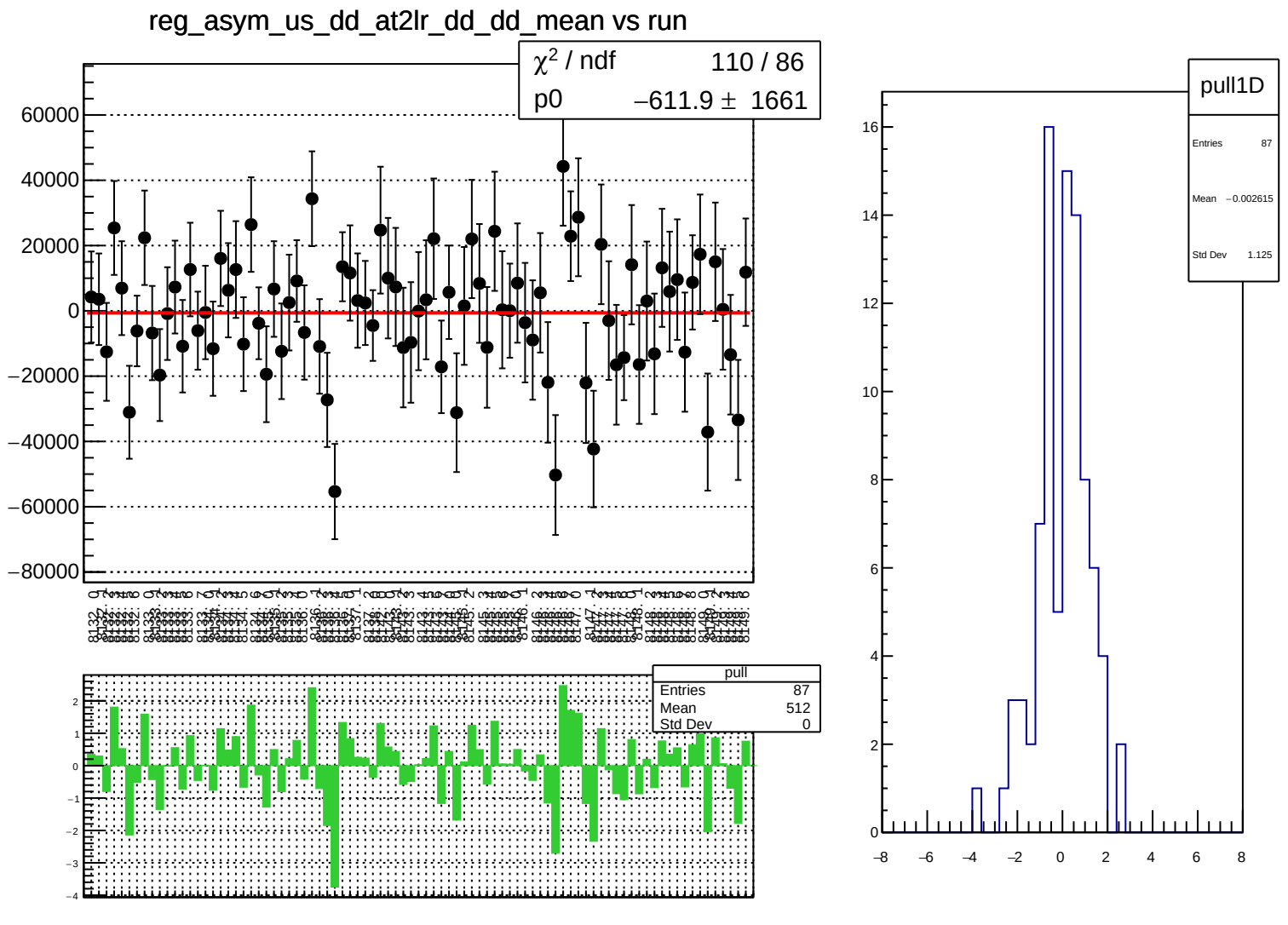

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.063e+05 / 86
p0 75.66 ± 0.05958
400
350
300
250
200
150
100
50

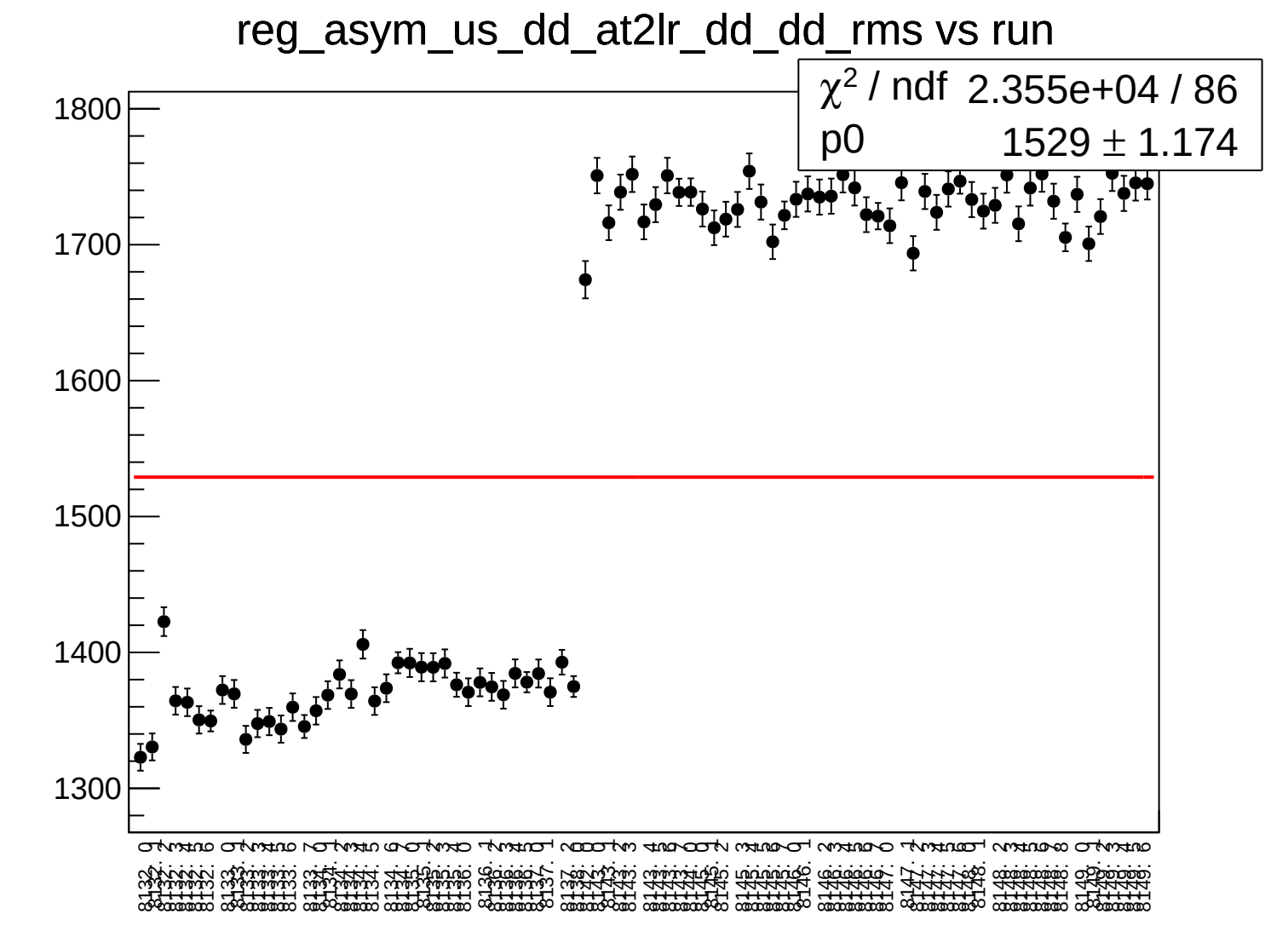

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.99 / 86
p0 −0.1106 ± 0.08426
pull
Entries 87
Mean −47.52
Std Dev 0
pull1D
Entries 87
Mean −0.02361
Std Dev 0.8706

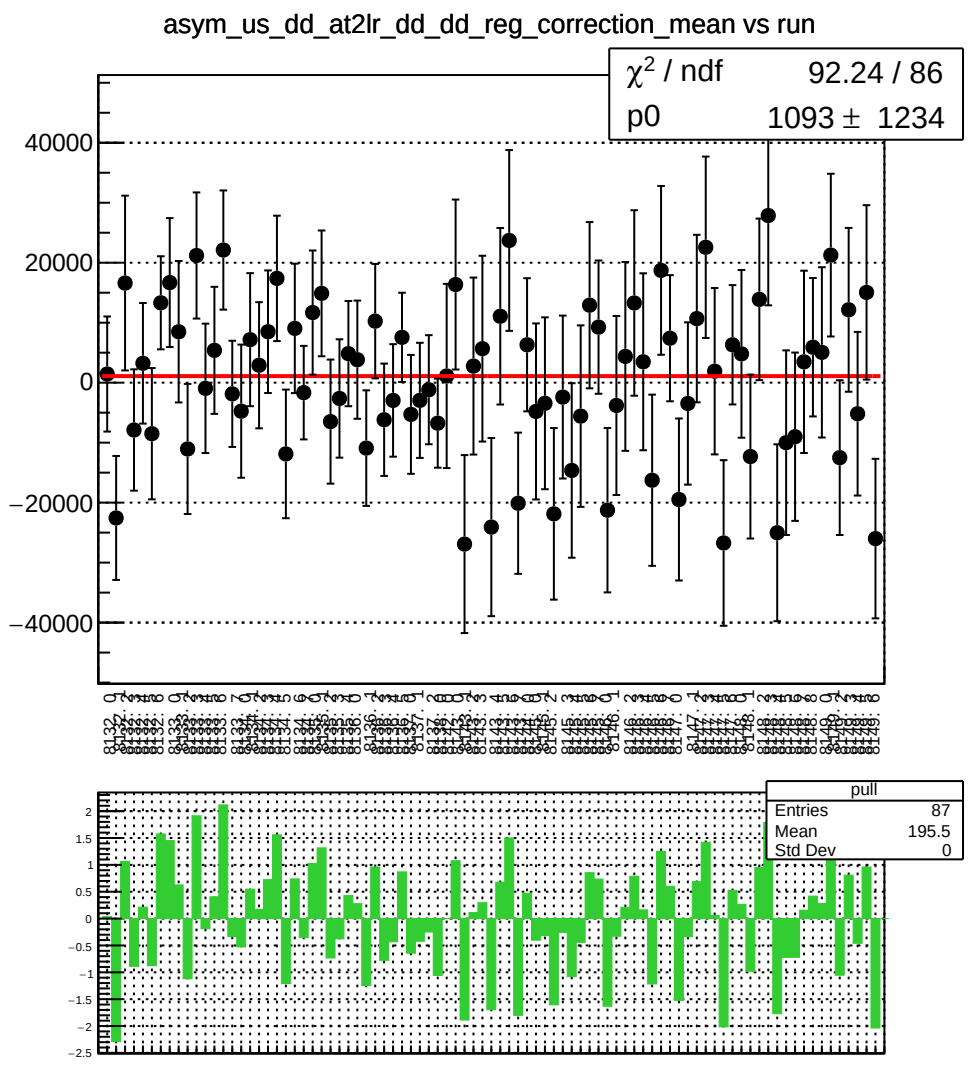

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.063e+05 / 86
p0 75.66 ± 0.05958
400
350
300
250
200
150
100
50

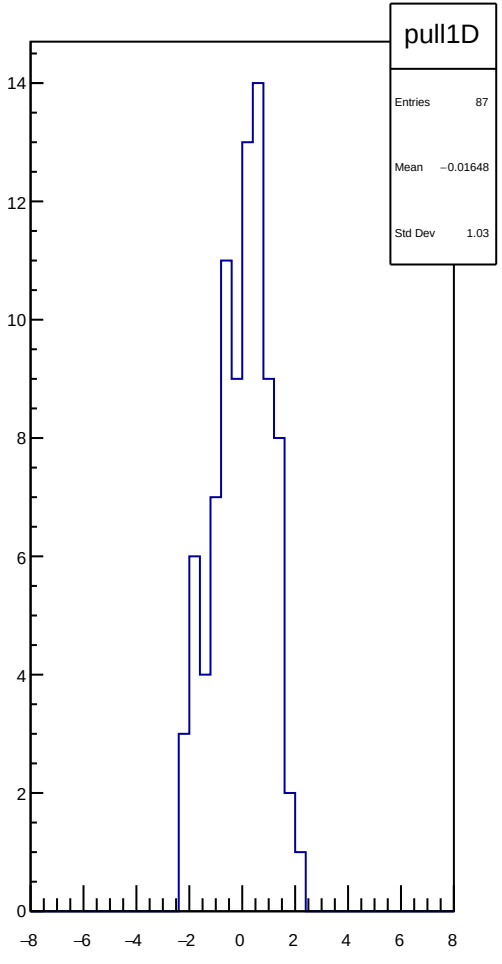

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.17 / 86
p0 −1.171e−13 ± 1.59e−13
pull
Entries 87
Mean 27.99
Std Dev 0
pull1D
Entries 87
Mean 0.05309
Std Dev 0.9464

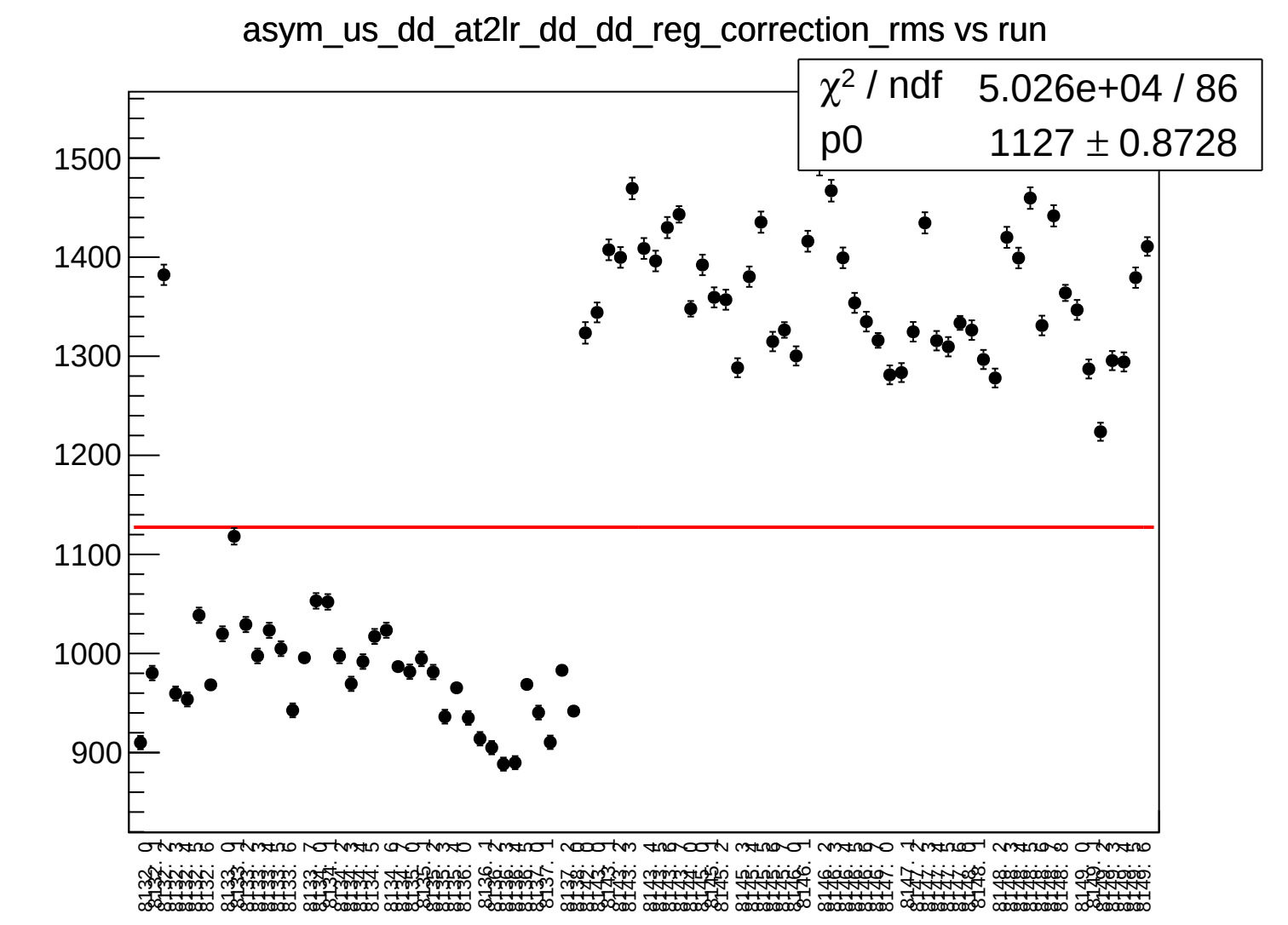

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.992e+05 / 86
p0 1.078e−10 ± 1.124e−13
1
0.8
0.6
0.4
0.2

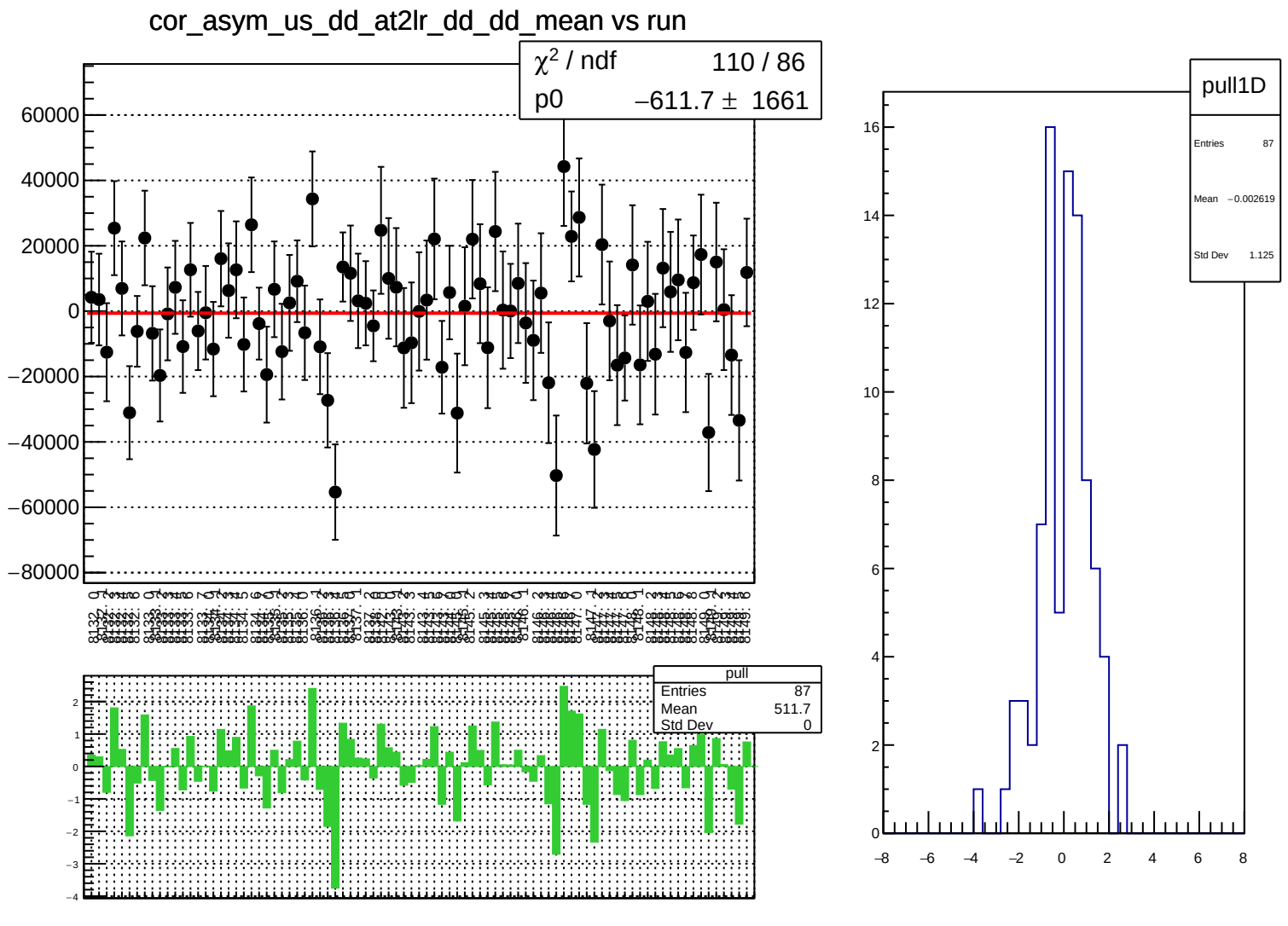

reg_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 110 / 86
p0 −611.9 ± 1661
pull
Entries 87
Mean 512
Std Dev 0
pull1D
Entries 87
Mean −0.002615
Std Dev 1.125

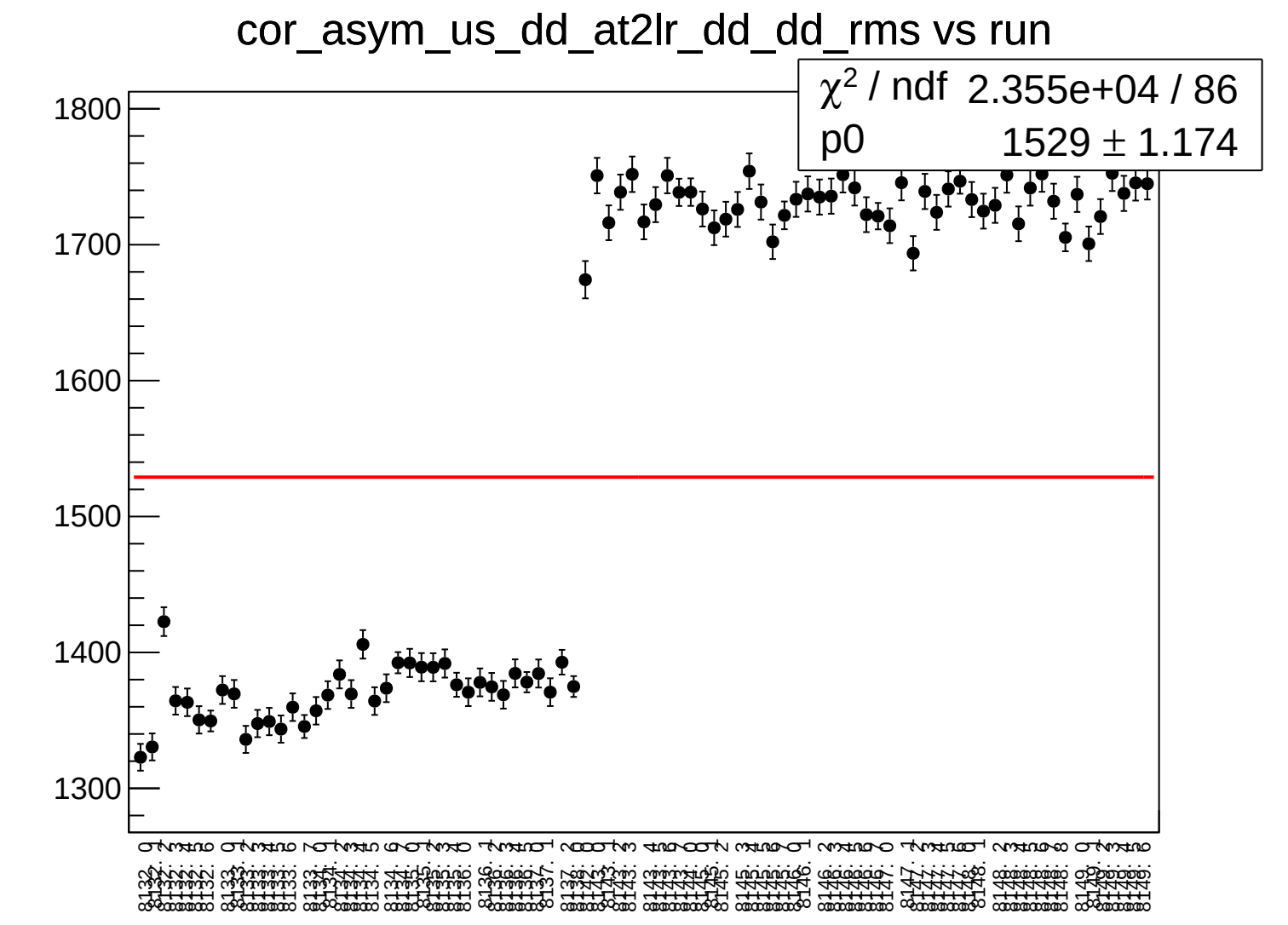

reg_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 2.355e+04 / 86
p0 1529 ± 1.174
1800
1700
1600
1500
1400
1300

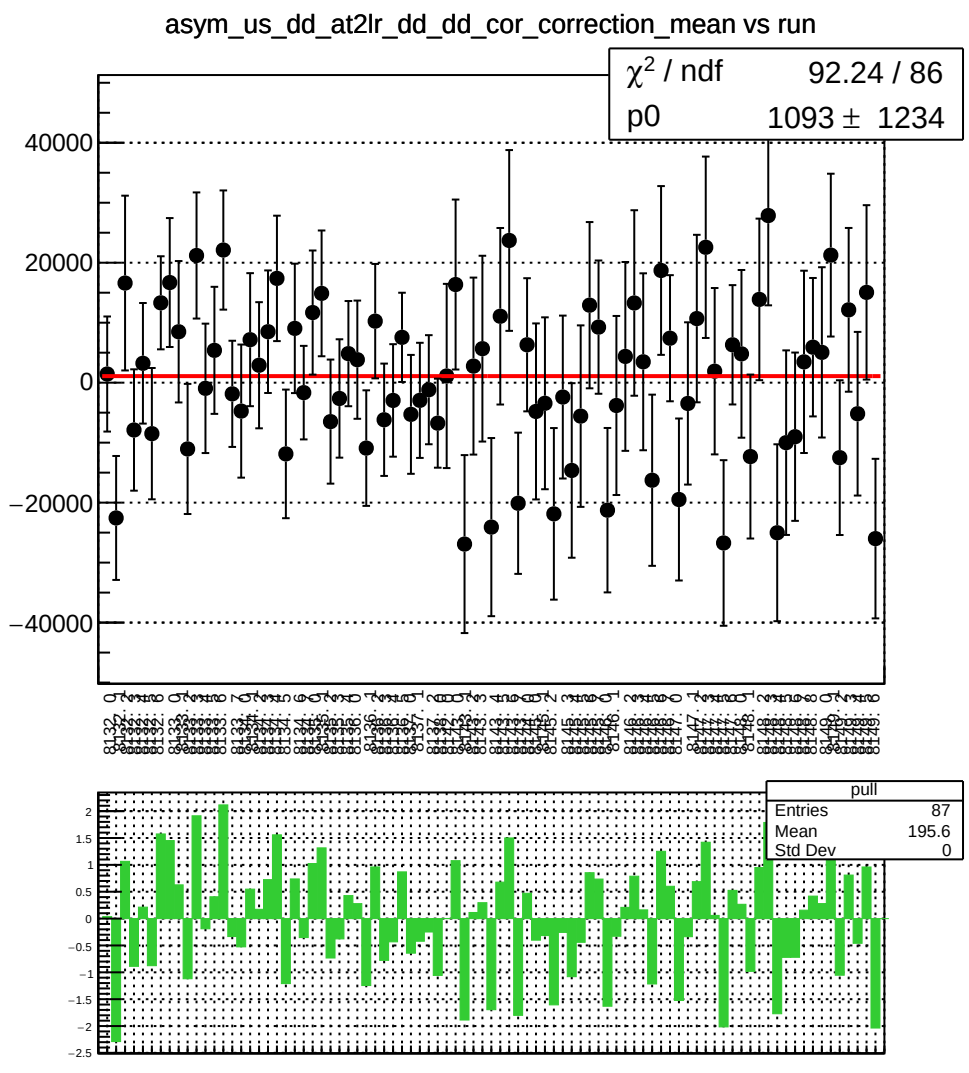

asym_us_dd_at2lr_dd_dd_reg_correction_mean vs run
χ² / ndf 92.24 / 86
p0 1093 ± 1234
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 195.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

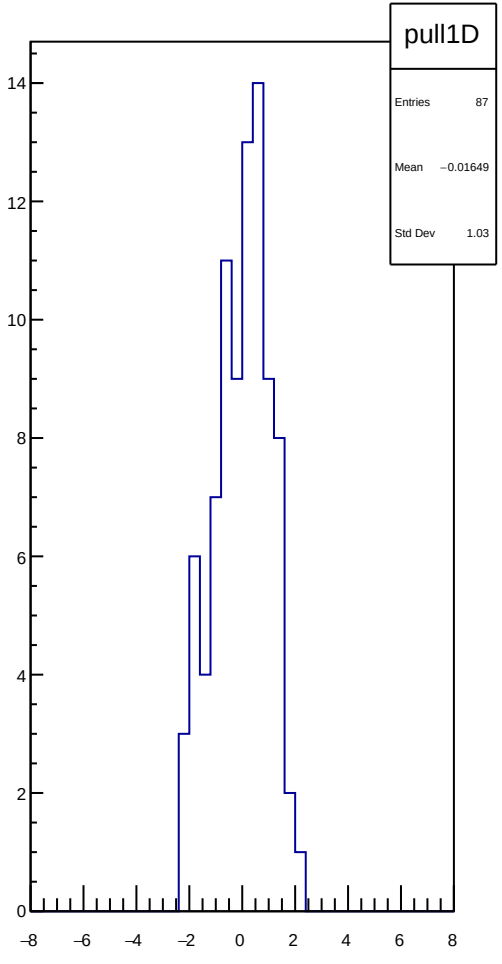

pull1D
Entries 87
Mean −0.01648
Std Dev 1.03
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

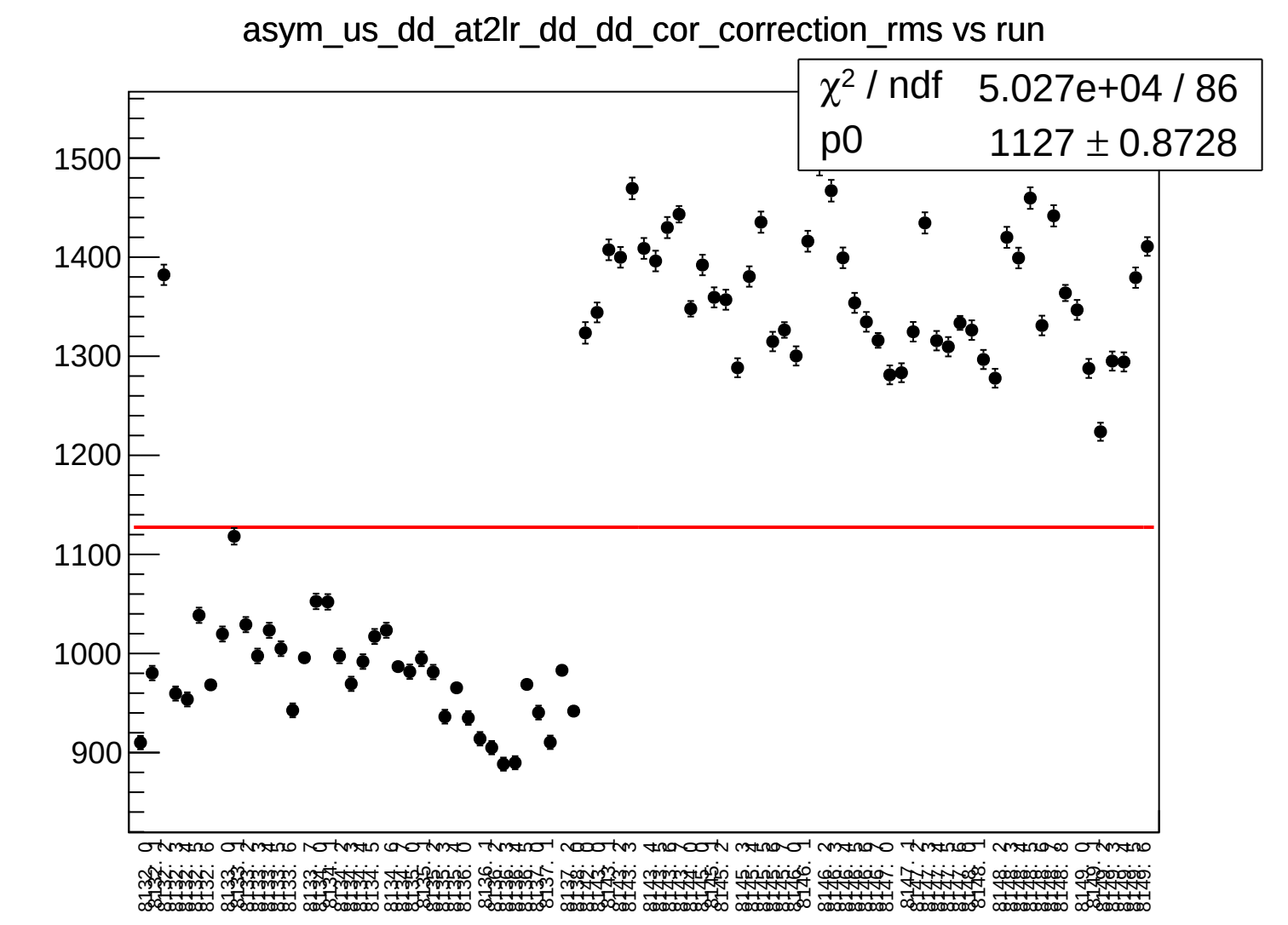

asym_us_dd_at2lr_dd_dd_reg_correction_rms vs run
χ² / ndf 5.026e+04 / 86
p0 1127 ± 0.8728
1500
1400
1300
1200
1100
1000
900

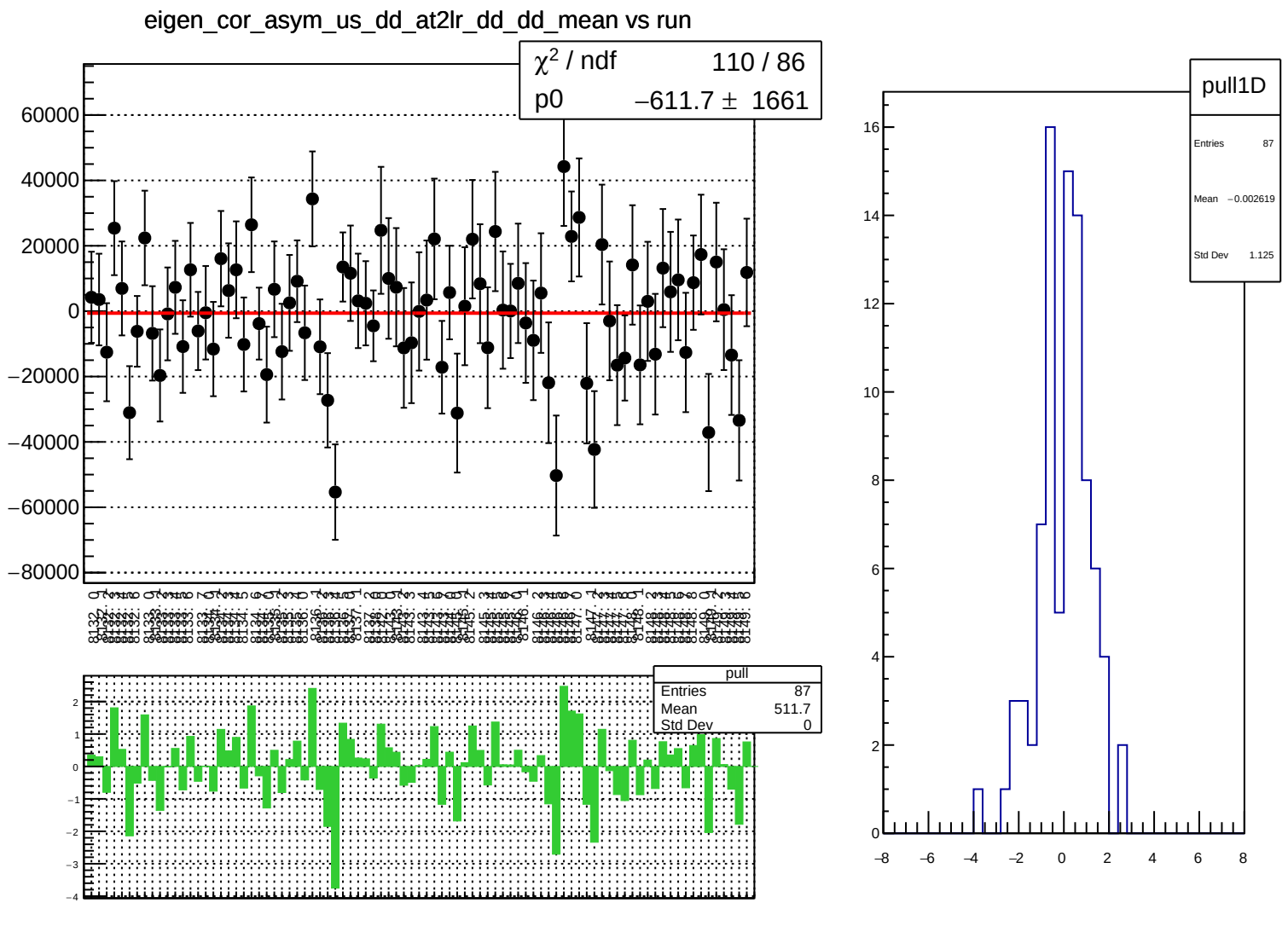

cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 110 / 86
p0 −611.7 ± 1661
pull
Entries 87
Mean 511.7
Std Dev 0
pull1D
Entries 87
Mean −0.002619
Std Dev 1.125

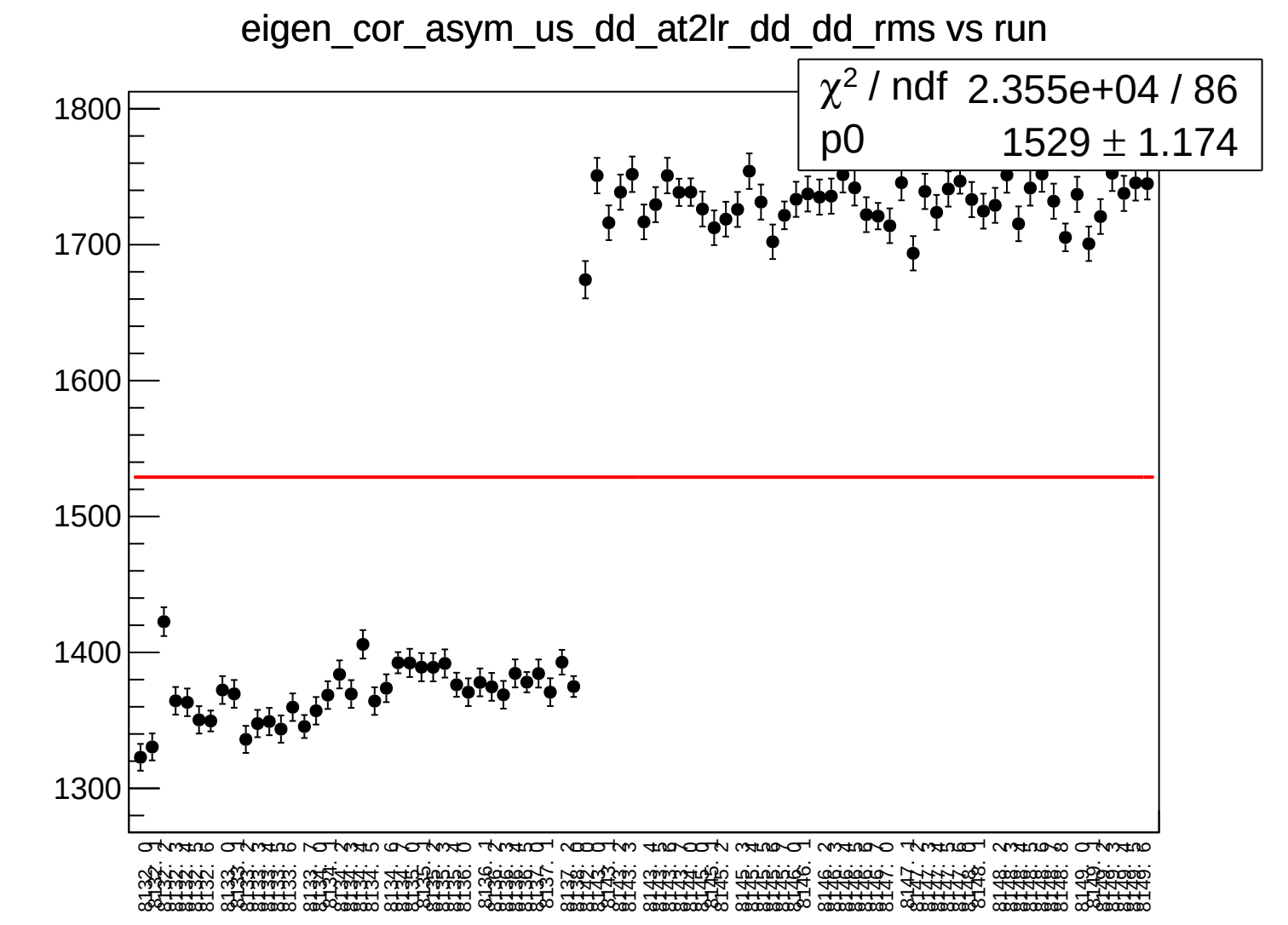

cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 2.355e+04 / 86
p0 1529 ± 1.174
1800
1700
1600
1500
1400
1300

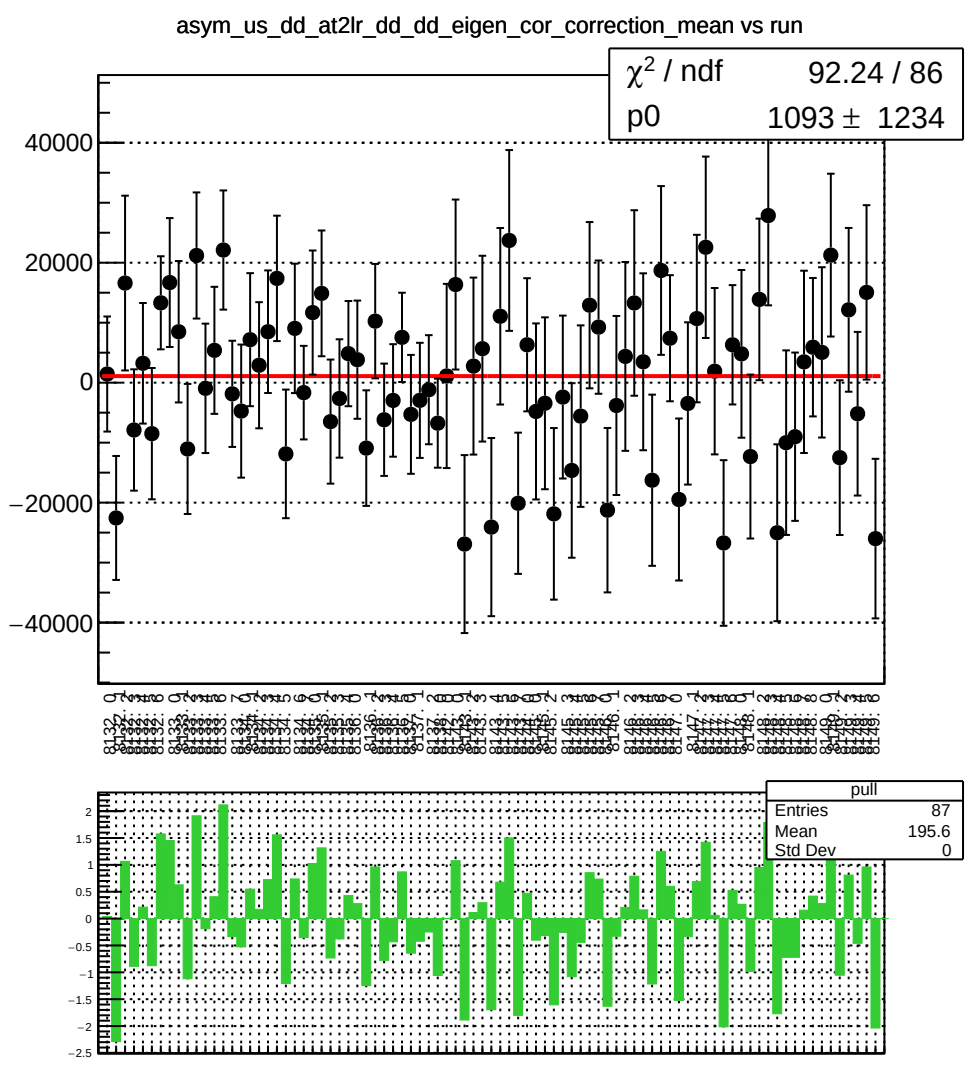

asym_us_dd_at2lr_dd_dd_cor_correction_mean vs run
χ² / ndf 92.24 / 86
p0 1093 ± 1234
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 195.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

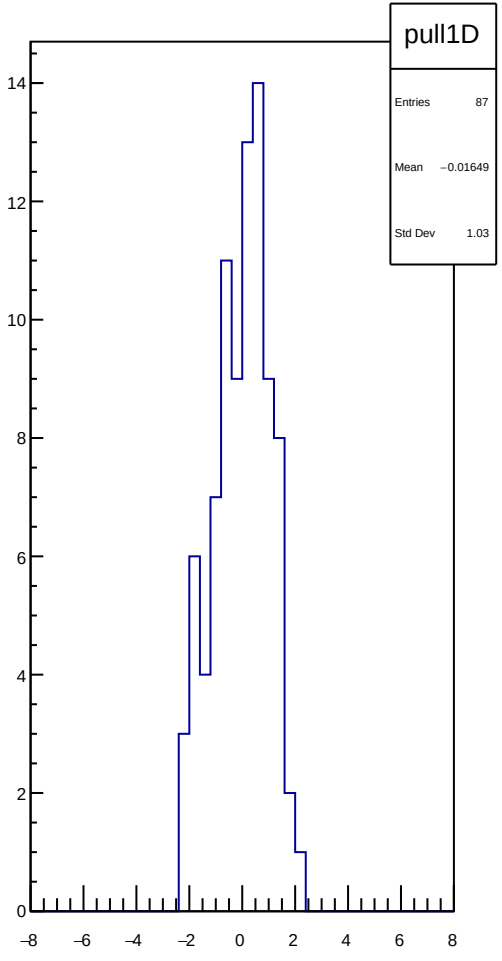

pull1D
Entries 87
Mean −0.01649
Std Dev 1.03
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

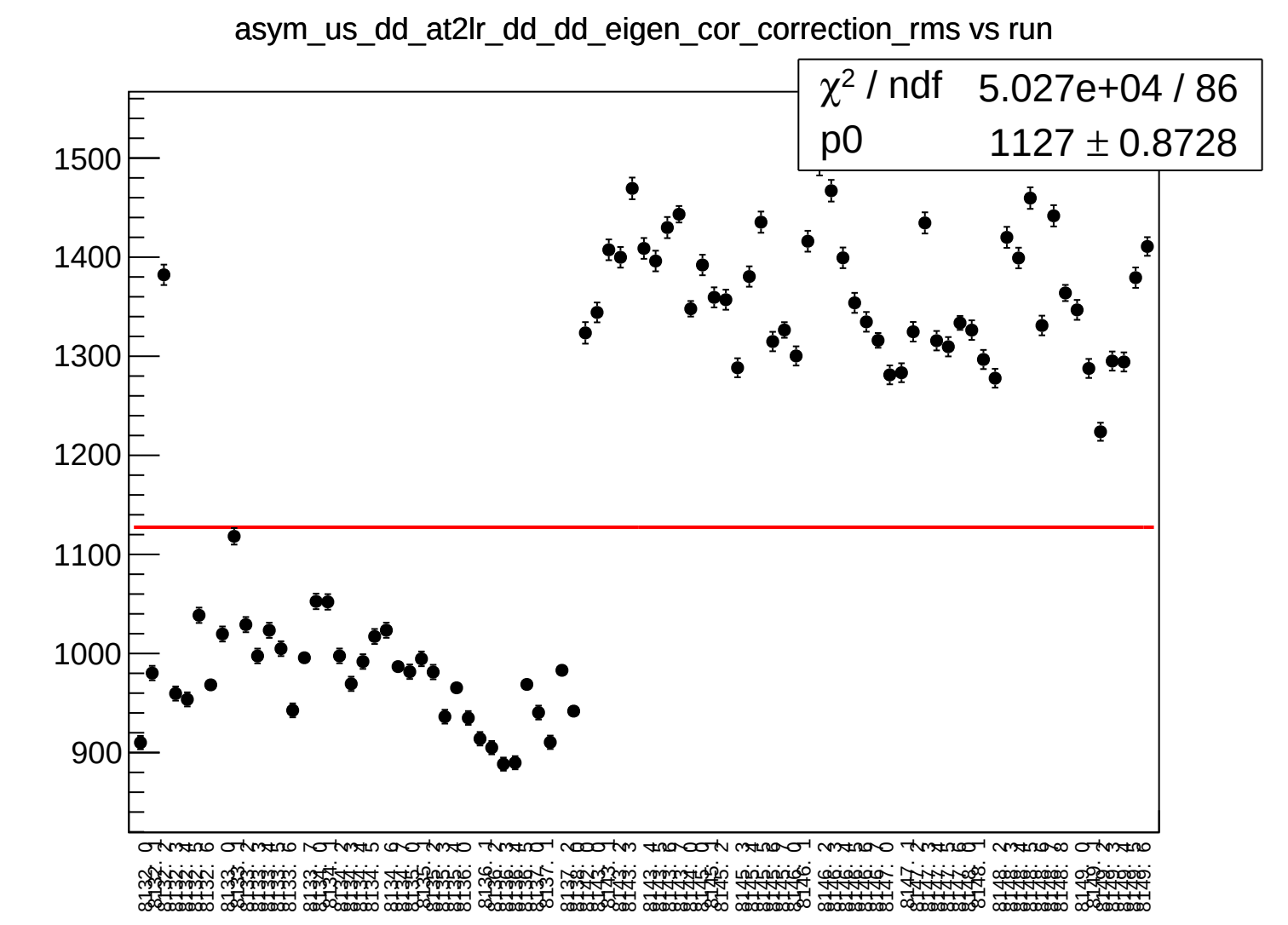

asym_us_dd_at2lr_dd_dd_cor_correction_rms vs run
χ² / ndf 5.027e+04 / 86
p0 1127 ± 0.8728
1500
1400
1300
1200
1100
1000
900

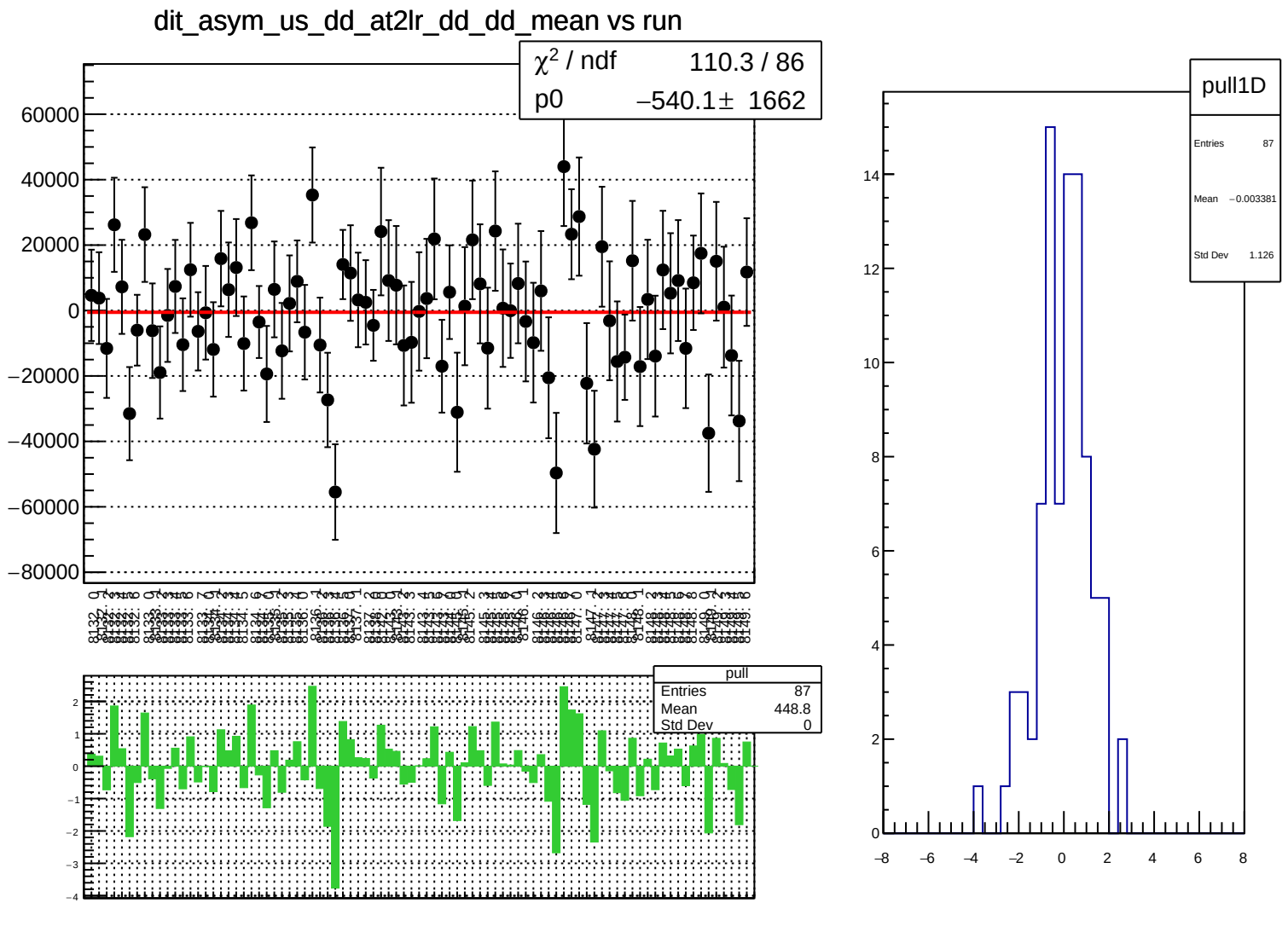

eigen_cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 110 / 86
p0 −611.7 ± 1661
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean 511.7
Std Dev 0
2
1
0
−1
−2
−3
−4
pull1D
Entries 87
Mean −0.002619
Std Dev 1.125
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

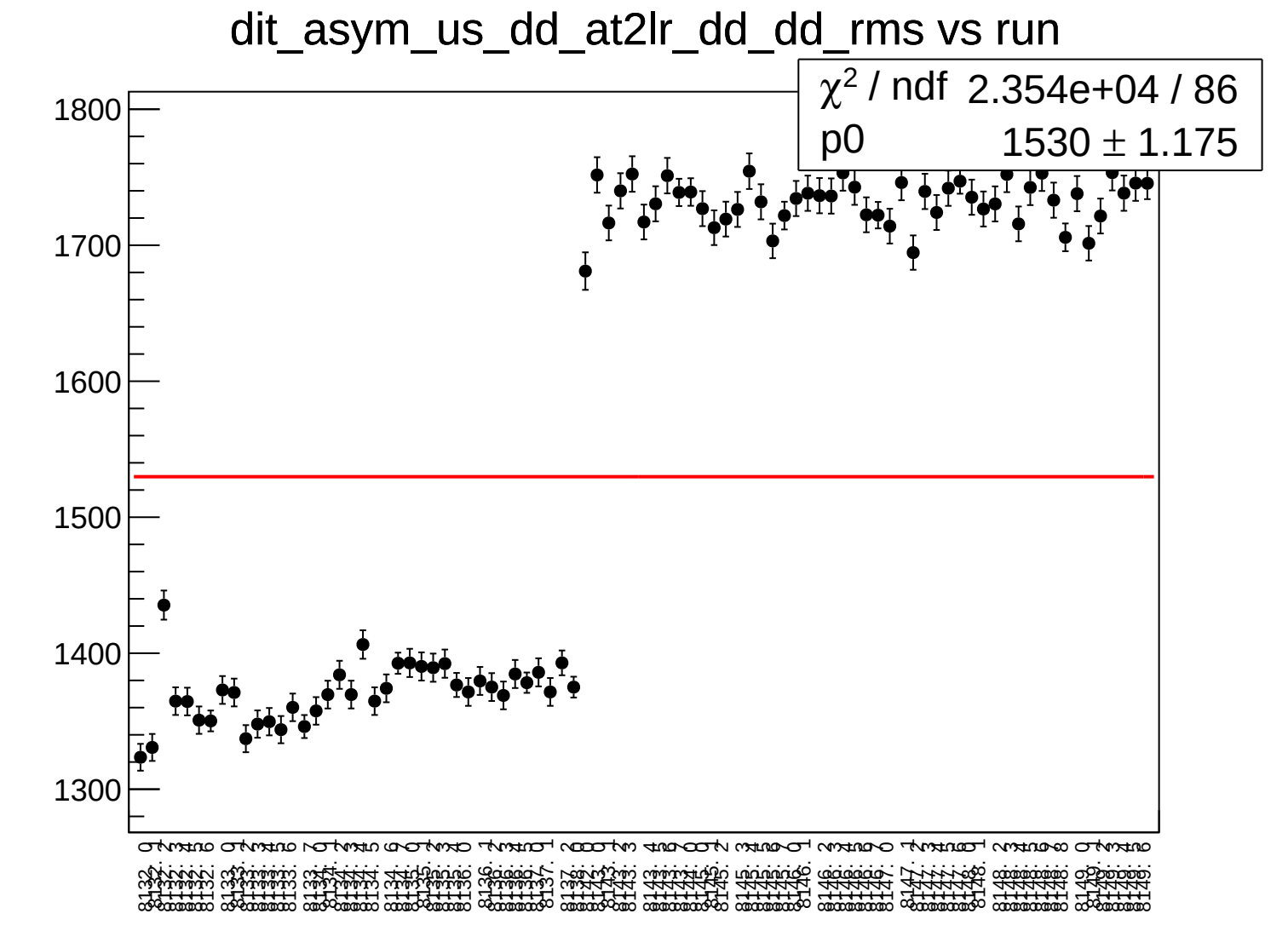

eigen_cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 2.355e+04 / 86
p0 1529 ± 1.174
1800
1700
1600
1500
1400
1300

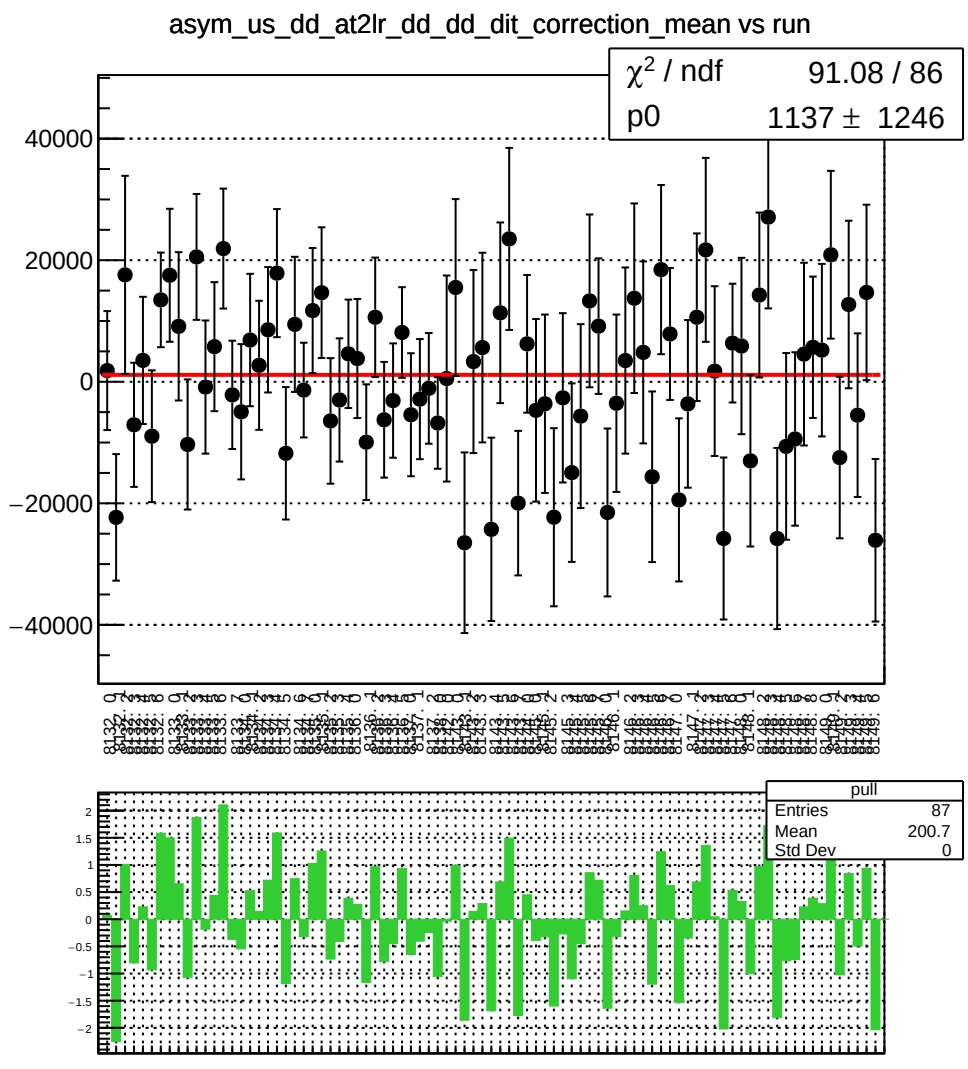

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 92.24 / 86
p0 1093 ± 1234
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 195.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

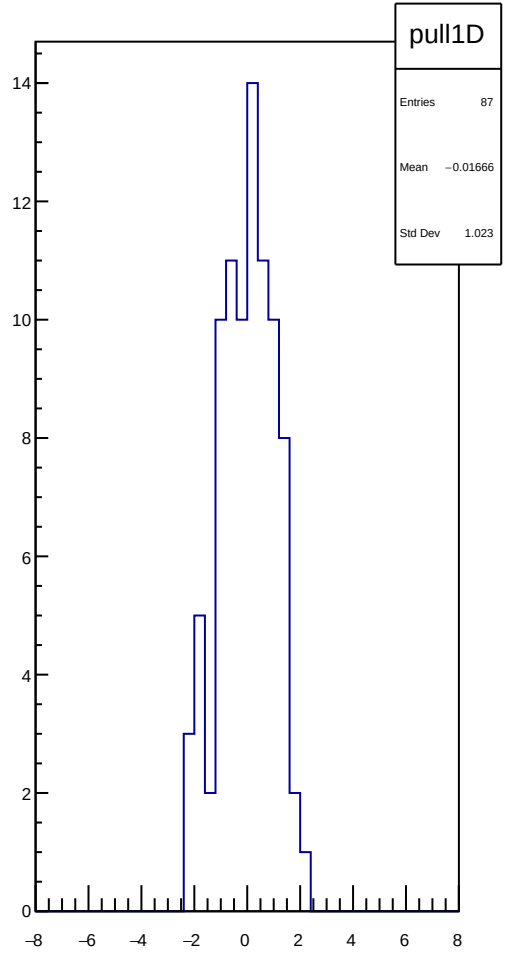

pull1D
Entries 87
Mean −0.01649
Std Dev 1.03
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

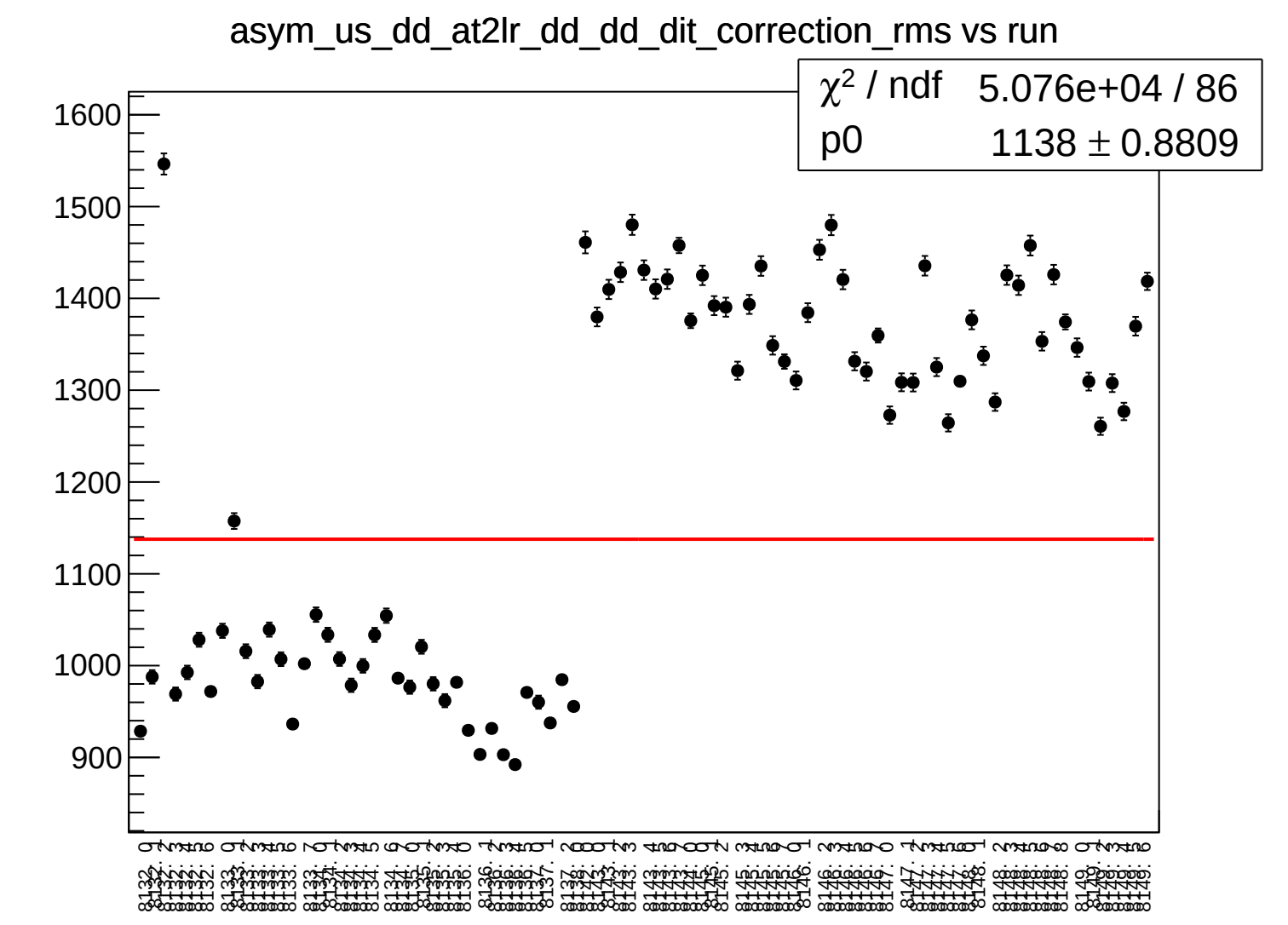

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 5.027e+04 / 86
p0 1127 ± 0.8728
1500
1400
1300
1200
1100
1000
900

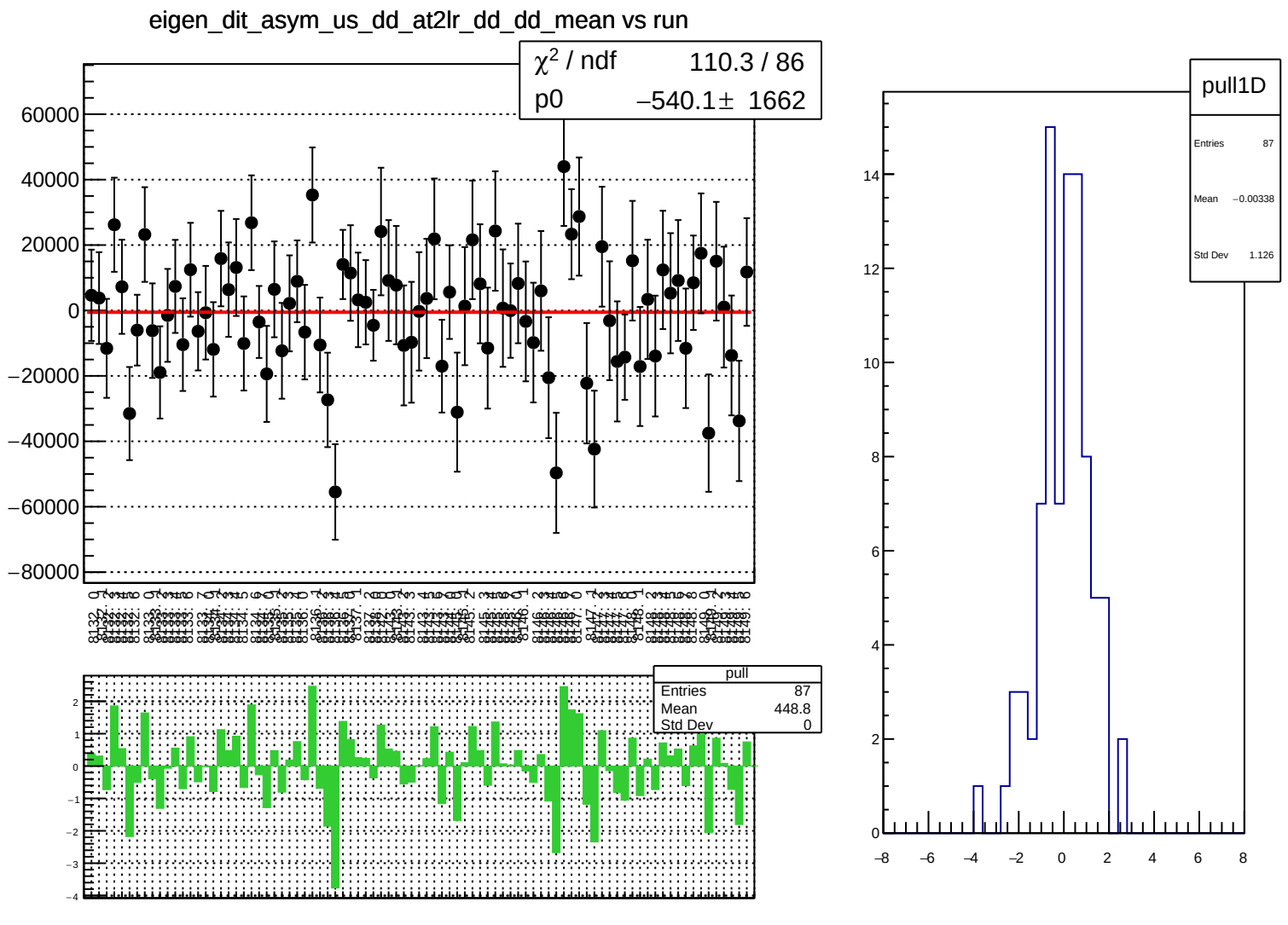

dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 110.3 / 86
p0 −540.1± 1662
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean 448.8
Std Dev 0
2
1
0
−1
−2
−3
−4
pull1D
Entries 87
Mean −0.003381
Std Dev 1.126
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

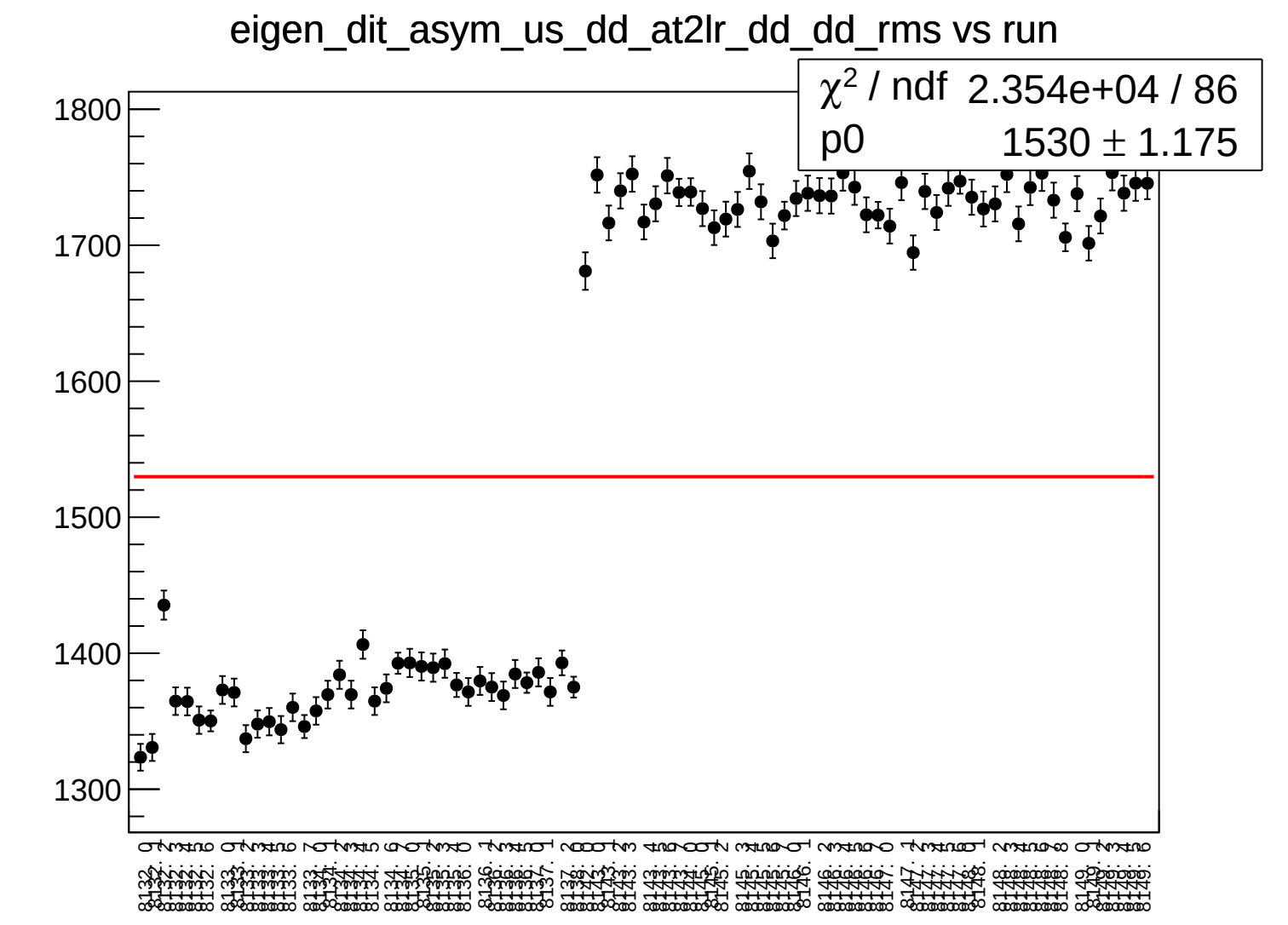

dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 2.354e+04 / 86
p0 1530 ± 1.175
1800
1700
1600
1500
1400
1300

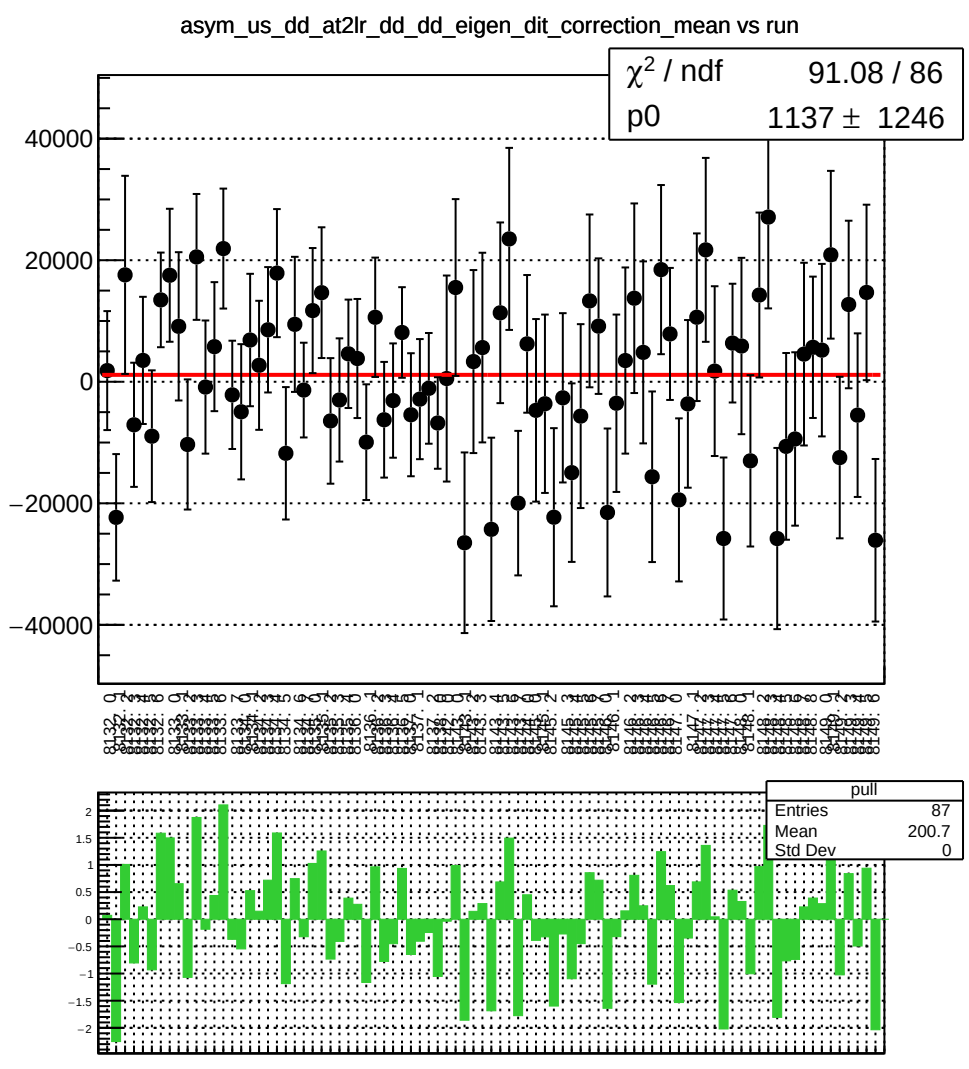

asym_us_dd_at2lr_dd_dd_dit_correction_mean vs run
χ² / ndf 91.08 / 86
p0 1137 ± 1246
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 200.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

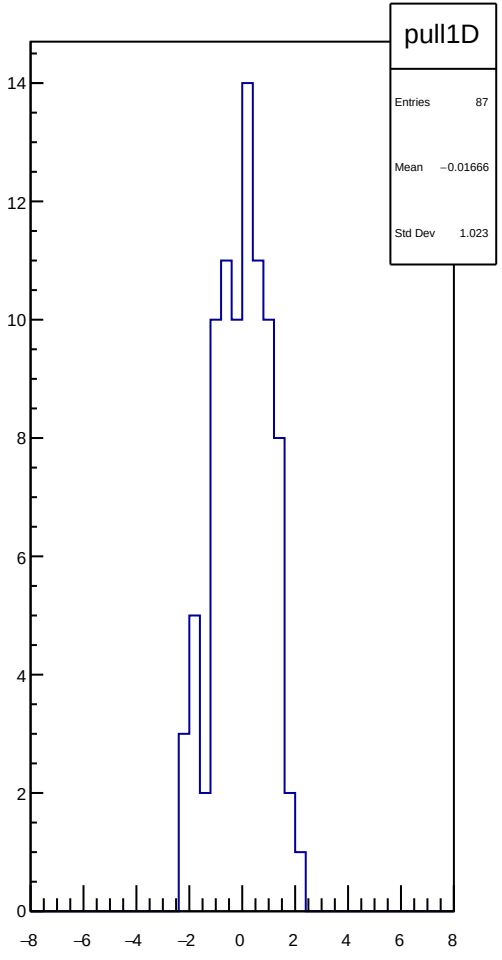

pull1D
Entries 87
Mean −0.01666
Std Dev 1.023
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

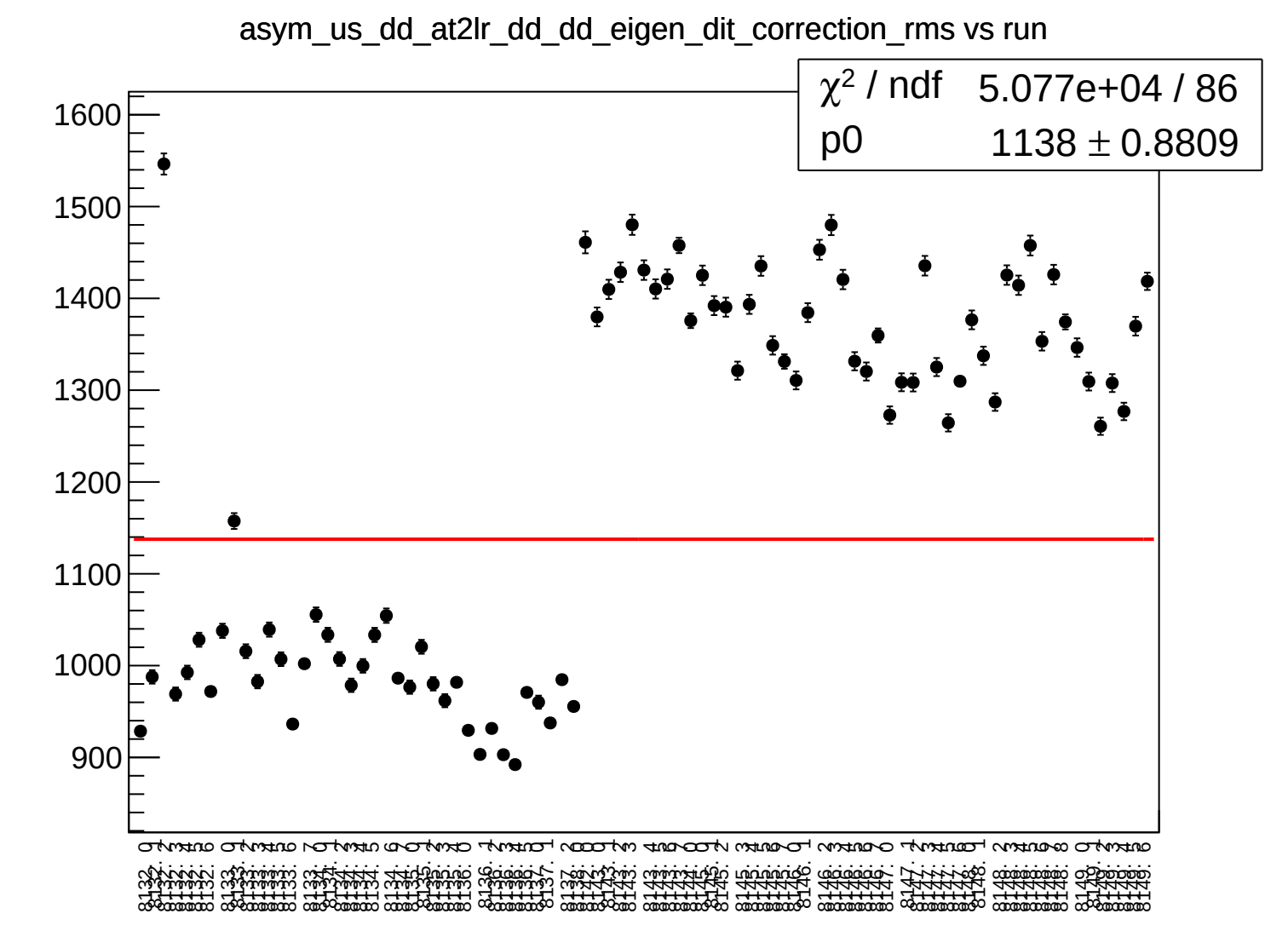

asym_us_dd_at2lr_dd_dd_dit_correction_rms vs run
χ² / ndf 5.076e+04 / 86
p0 1138 ± 0.8809
1600
1500
1400
1300
1200
1100
1000
900

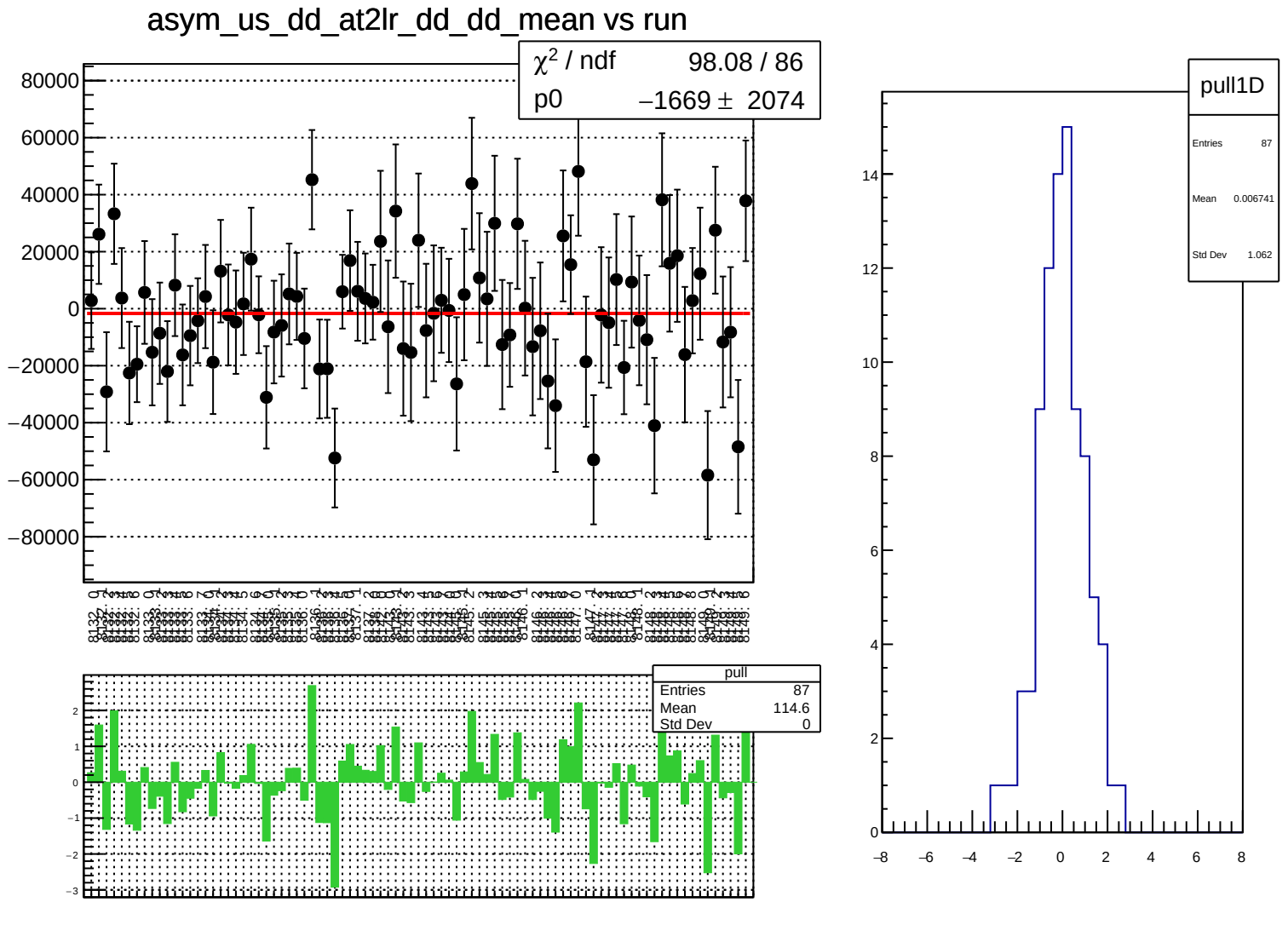

eigen_dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 110.3 / 86
p0 −540.1± 1662
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean 448.8
Std Dev 0
2
1
0
−1
−2
−3
−4
pull1D
Entries 87
Mean −0.00338
Std Dev 1.126
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

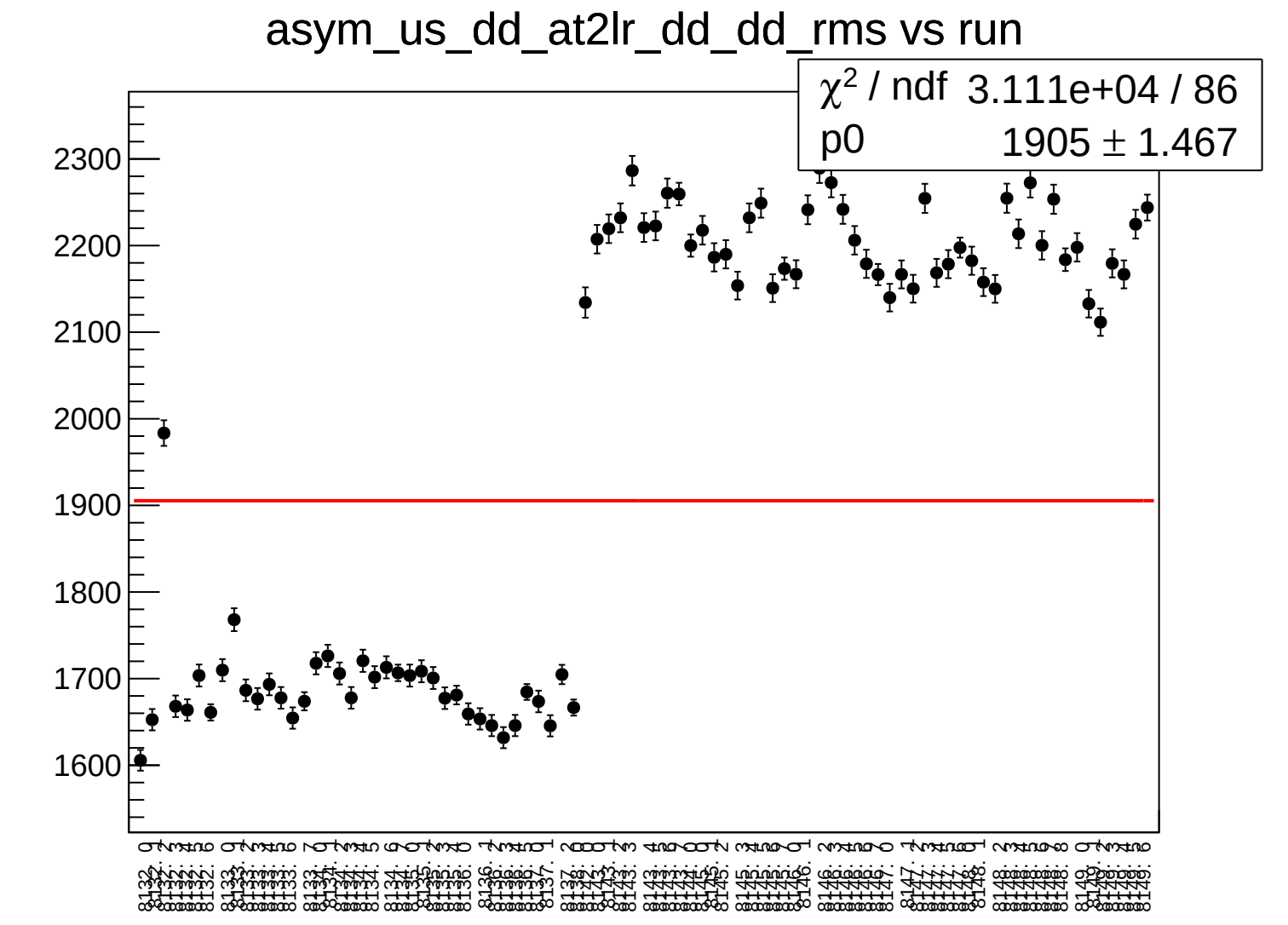

eigen_dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 2.354e+04 / 86
p0 1530 ± 1.175
1800
1700
1600
1500
1400
1300

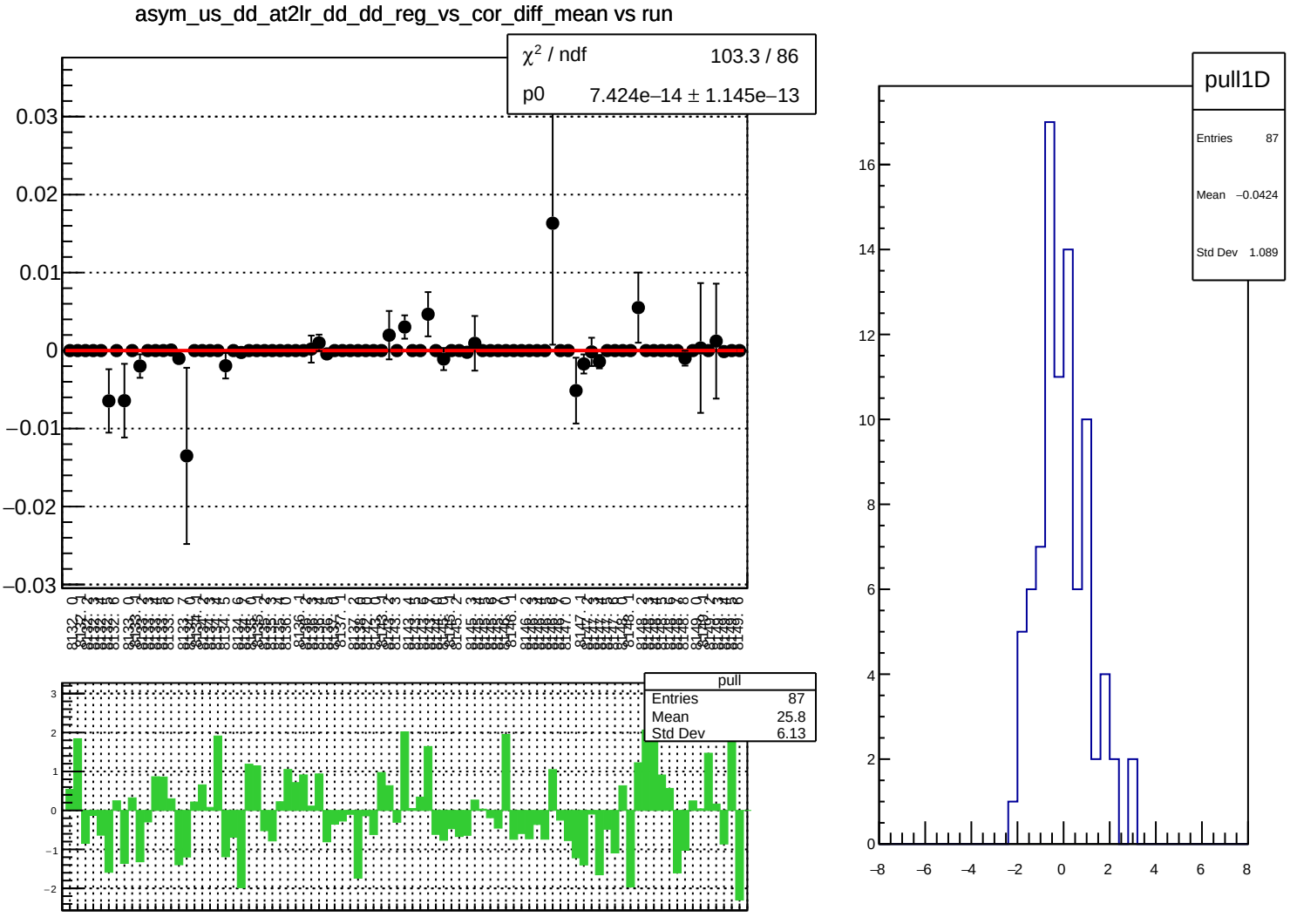

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 91.08 / 86
p0 1137 ± 1246
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 200.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

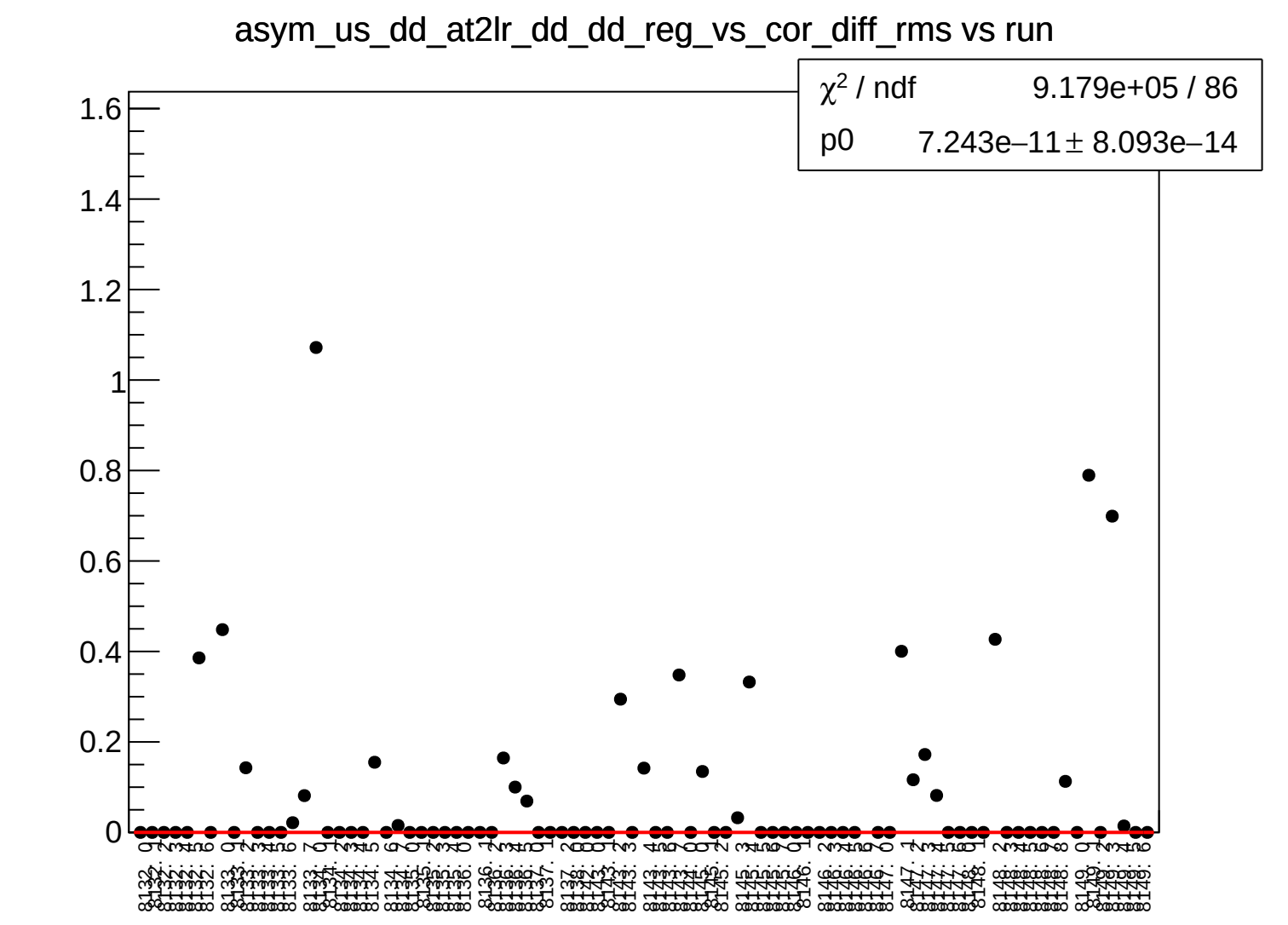

pull1D
Entries 87
Mean −0.01666
Std Dev 1.023
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

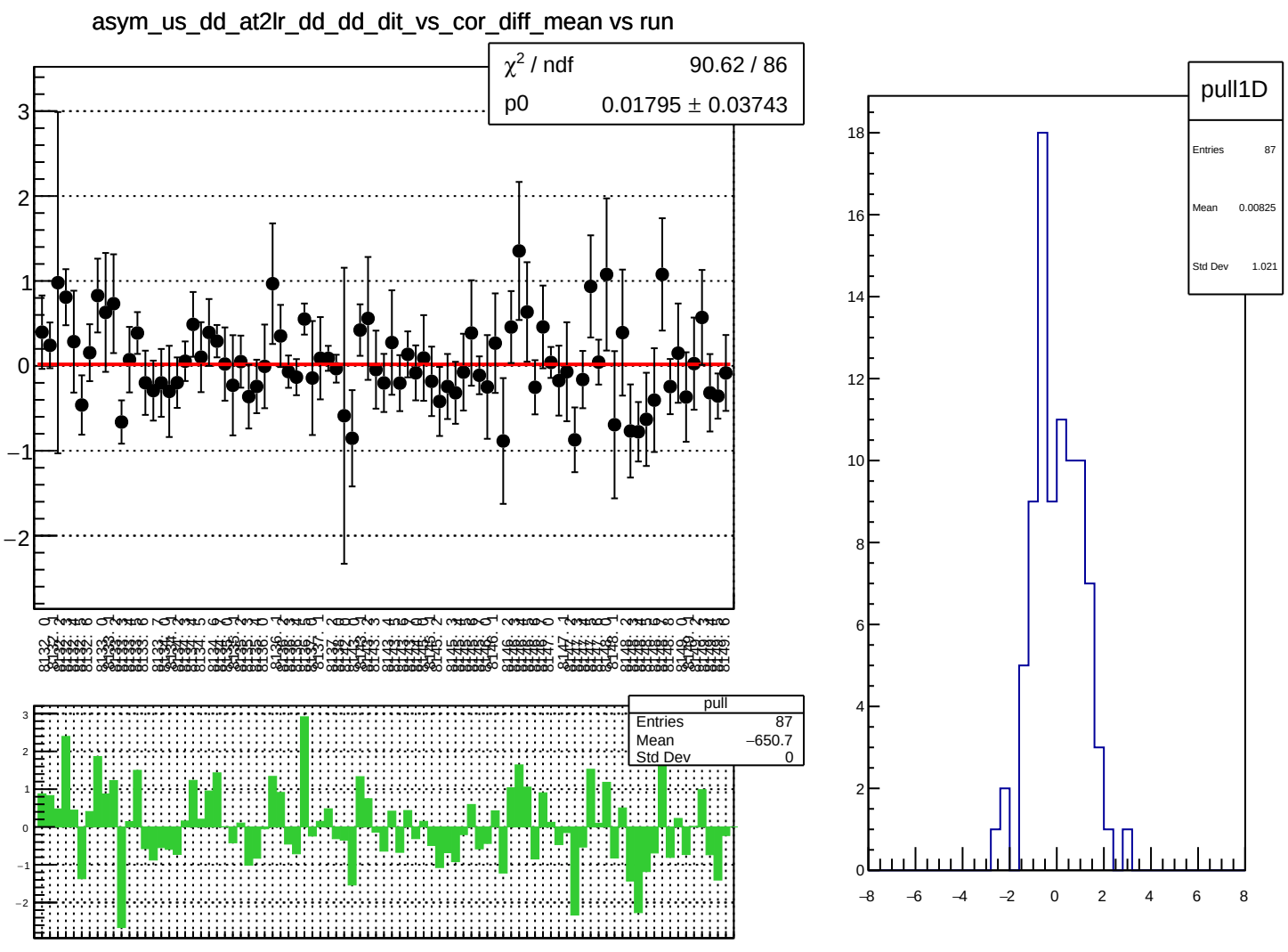

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 5.077e+04 / 86
p0 1138 ± 0.8809
1600
1500
1400
1300
1200
1100
1000
900

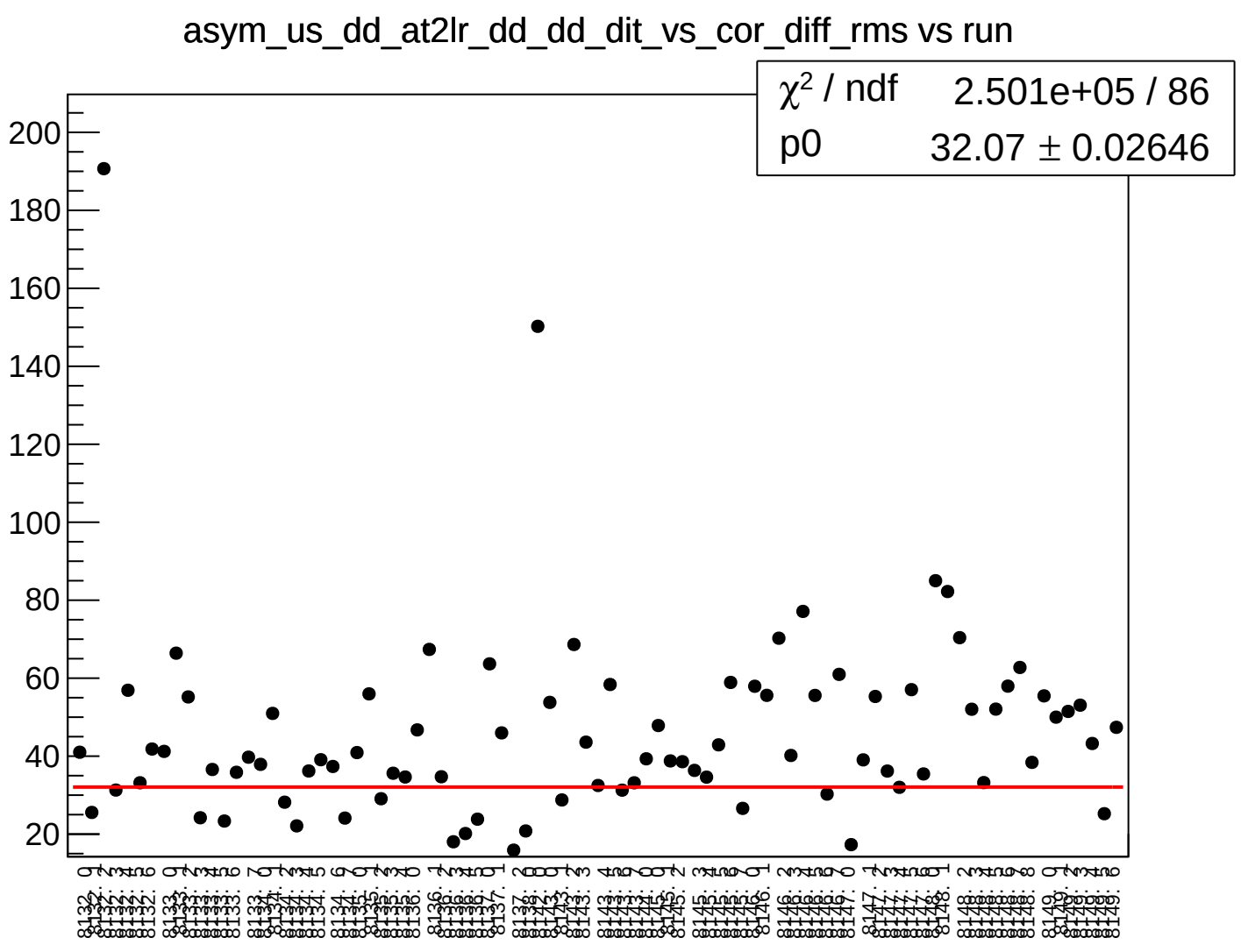

asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 98.08 / 86
p0 −1669 ± 2074
pull
Entries 87
Mean 114.6
Std Dev 0
pull1D
Entries 87
Mean 0.006741
Std Dev 1.062

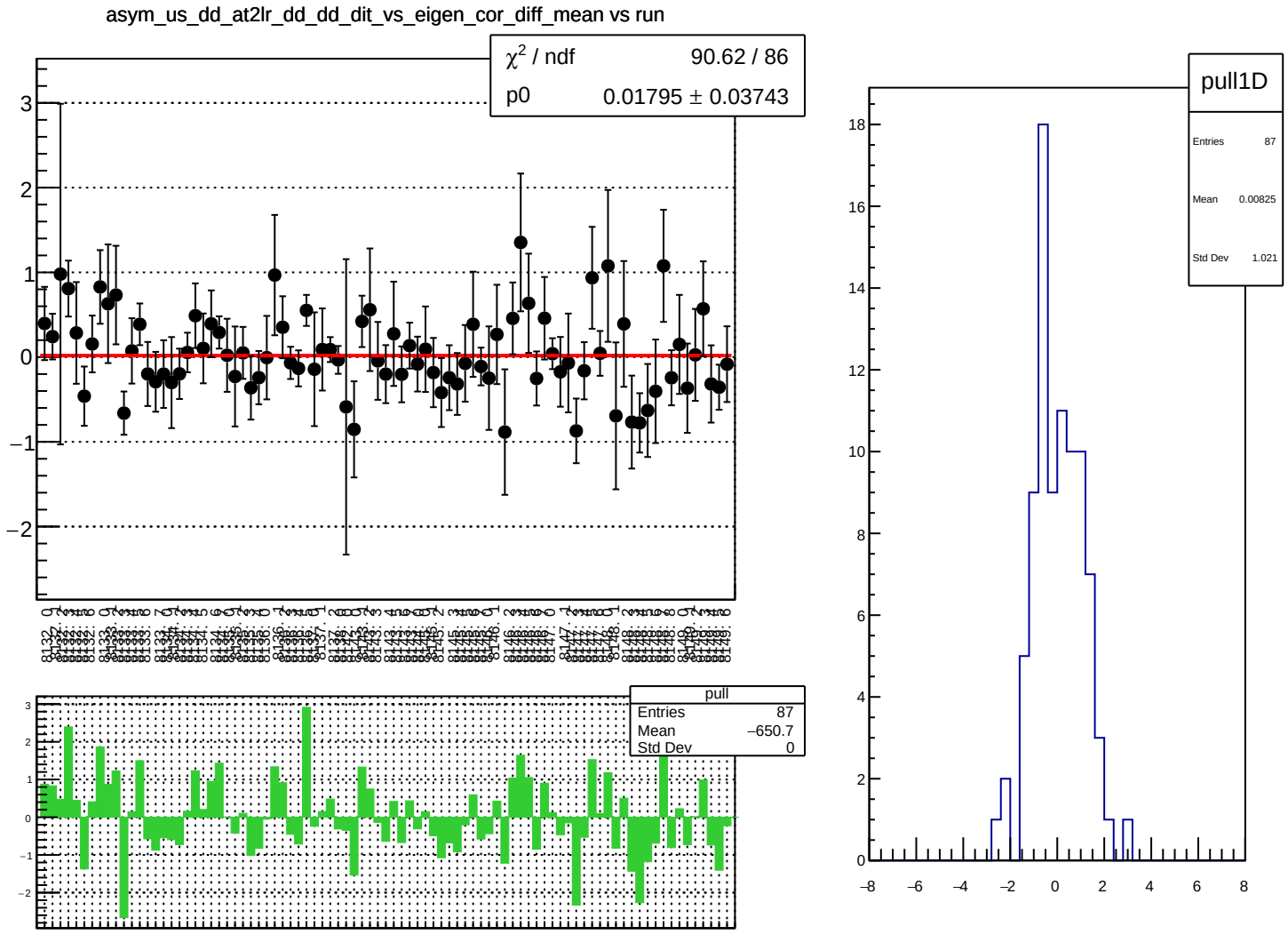

asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 3.111e+04 / 86
p0 1905 ± 1.467
2300
2200
2100
2000
1900
1800
1700
1600

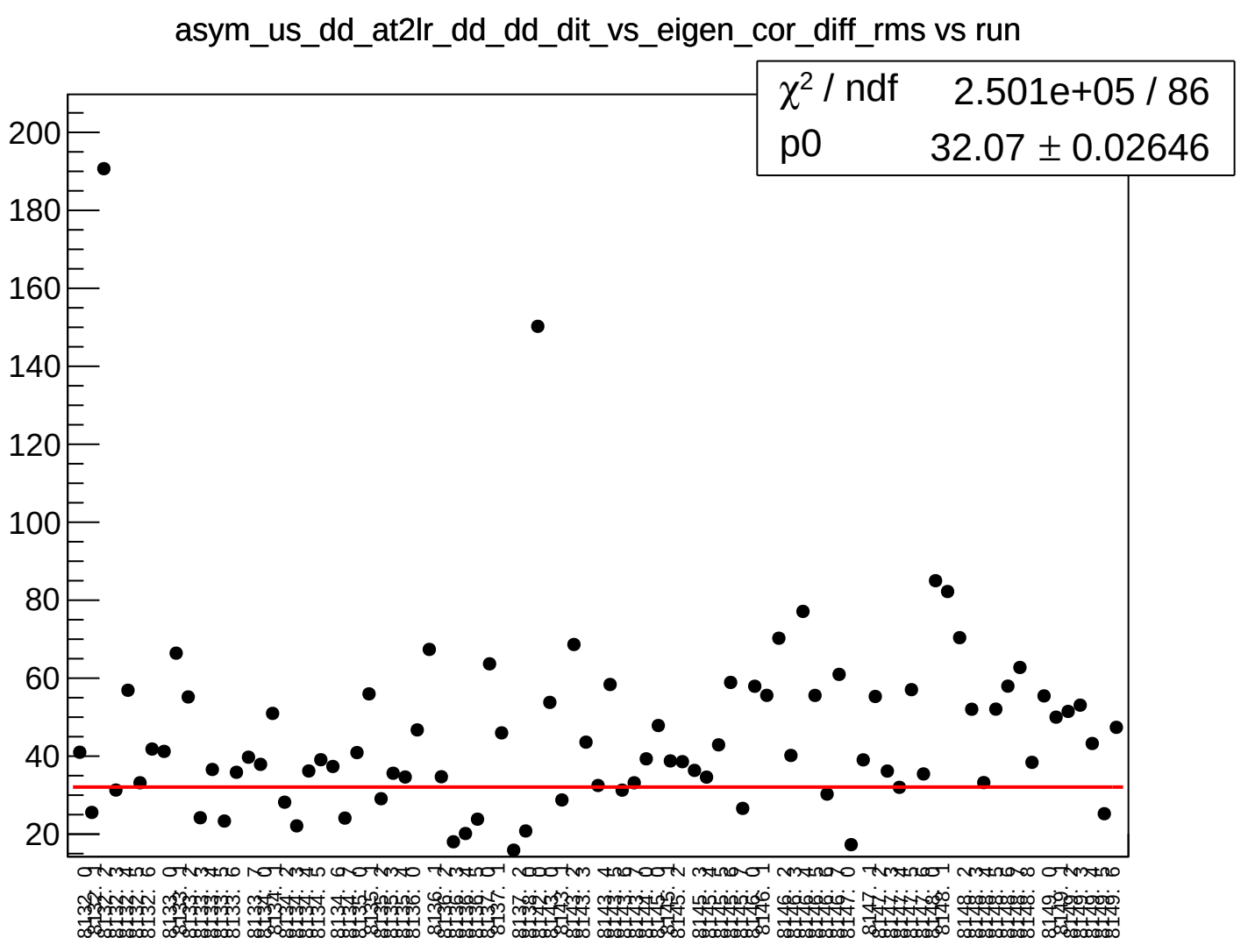

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 103.3 / 86
p0 7.424e−14 ± 1.145e−13
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 87
Mean 25.8
Std Dev 6.13
3
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.0424
Std Dev 1.089
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

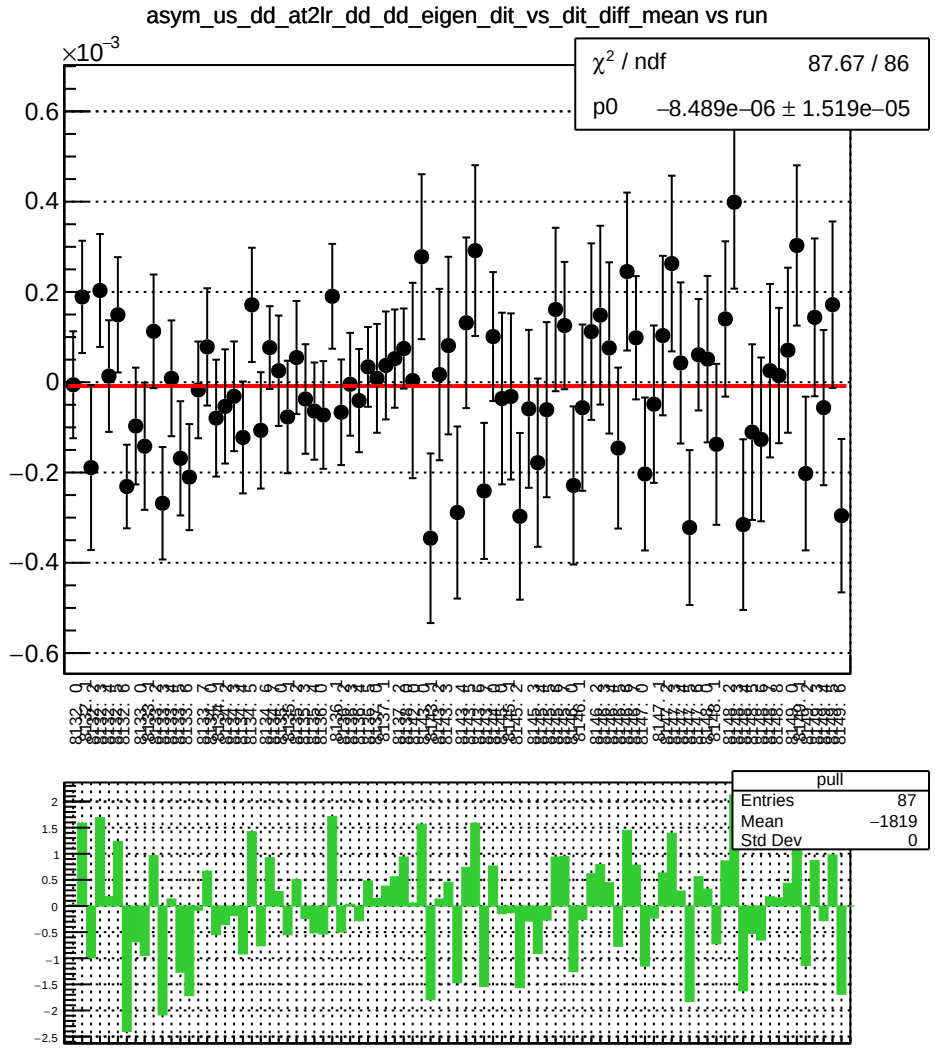

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.179e+05 / 86
p0 7.243e−11 ± 8.093e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

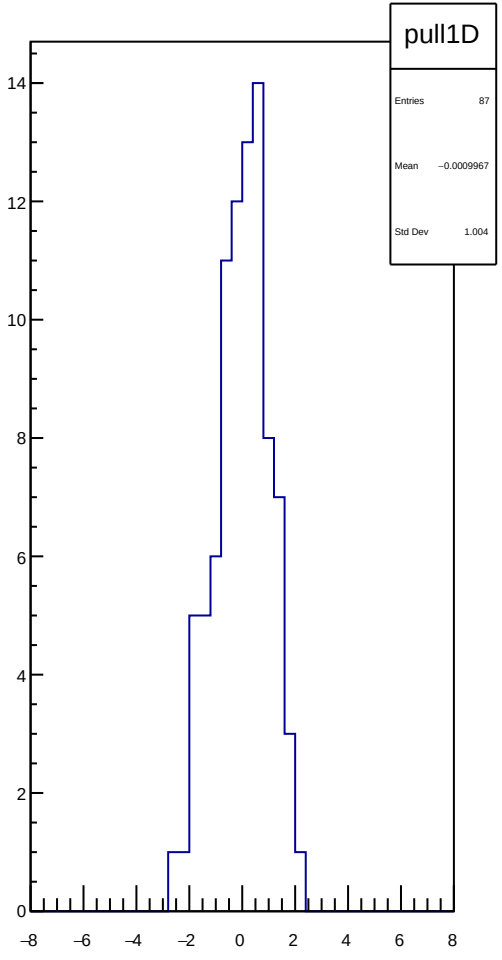

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 90.62 / 86
p0 0.01795 ± 0.03743
pull
Entries 87
Mean −650.7
Std Dev 0
pull1D
Entries 87
Mean 0.00825
Std Dev 1.021

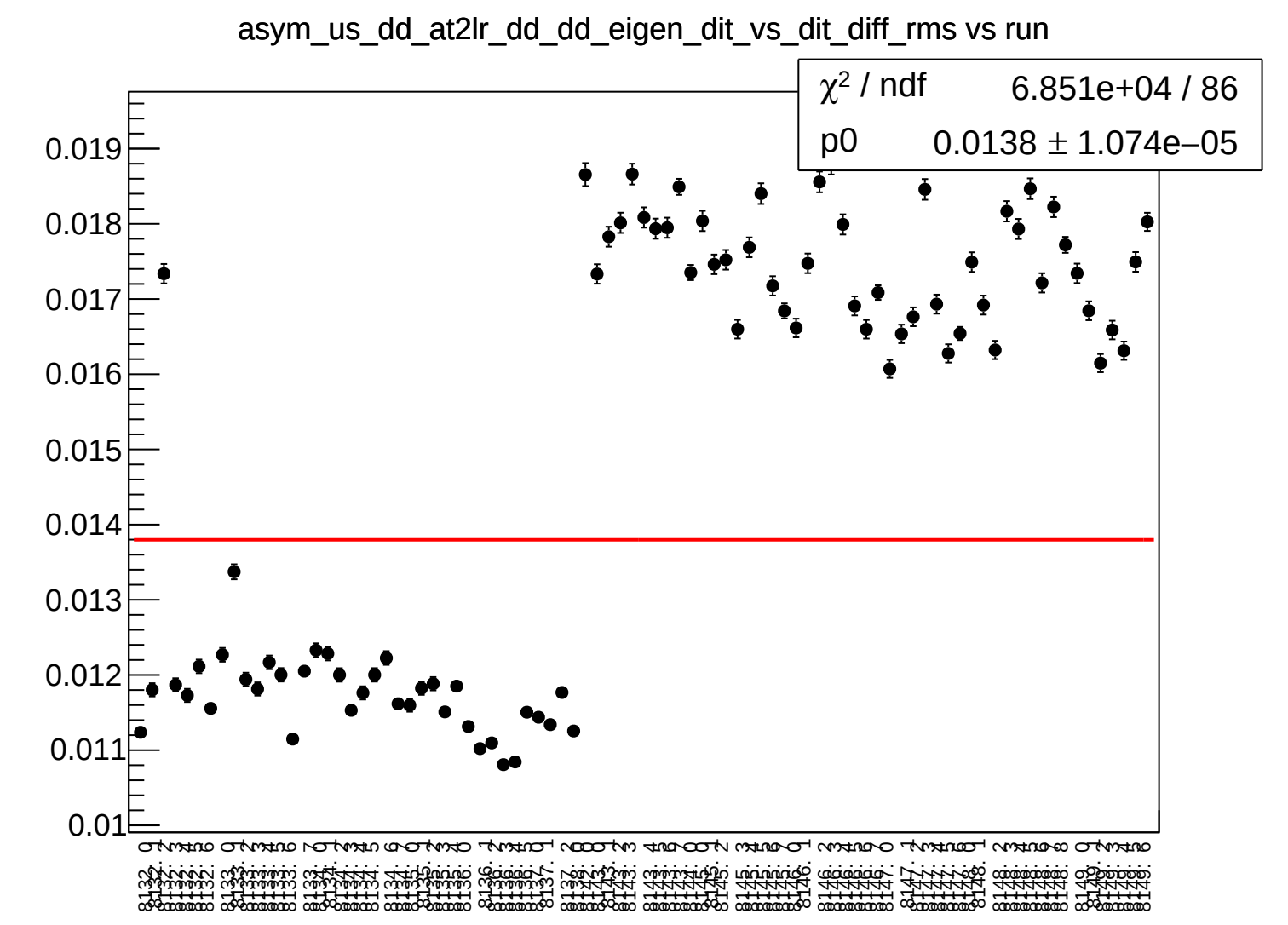

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.501e+05 / 86
p0 32.07 ± 0.02646
200
180
160
140
120
100
80
60
40
20

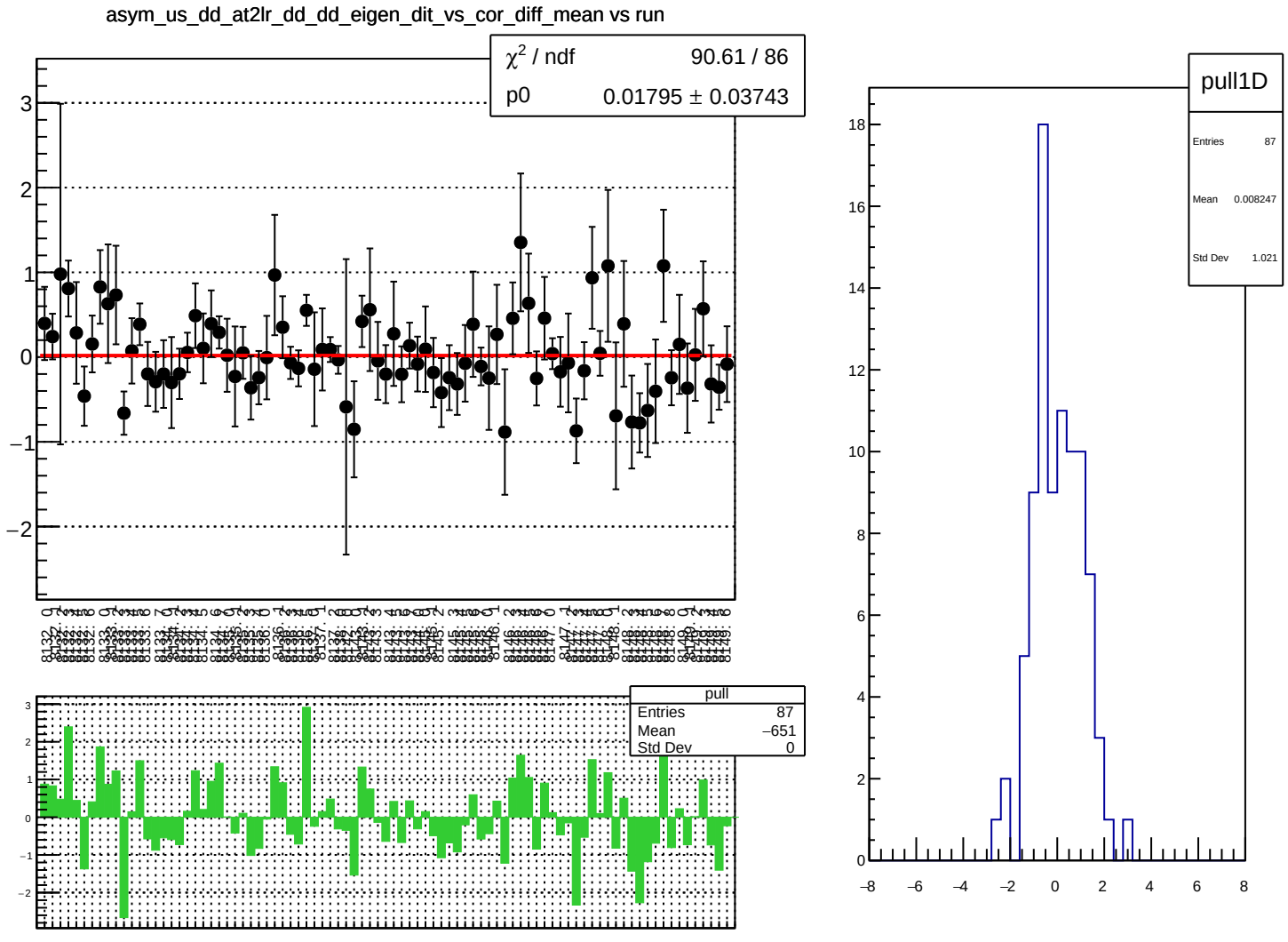

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.62 / 86
p0 0.01795 ± 0.03743
pull
Entries 87
Mean −650.7
Std Dev 0
pull1D
Entries 87
Mean 0.00825
Std Dev 1.021

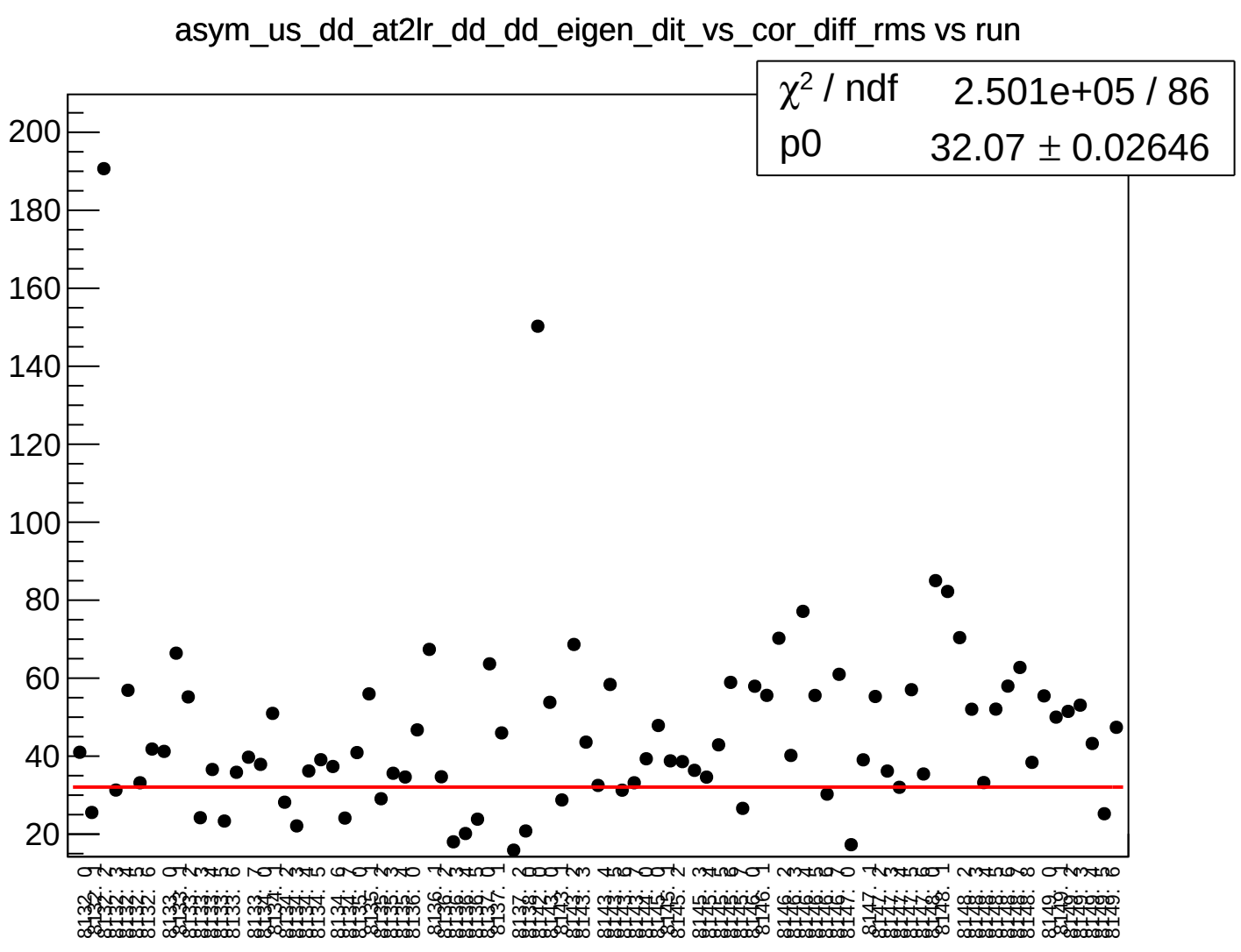

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.501e+05 / 86
p0 32.07 ± 0.02646
200
180
160
140
120
100
80
60
40
20

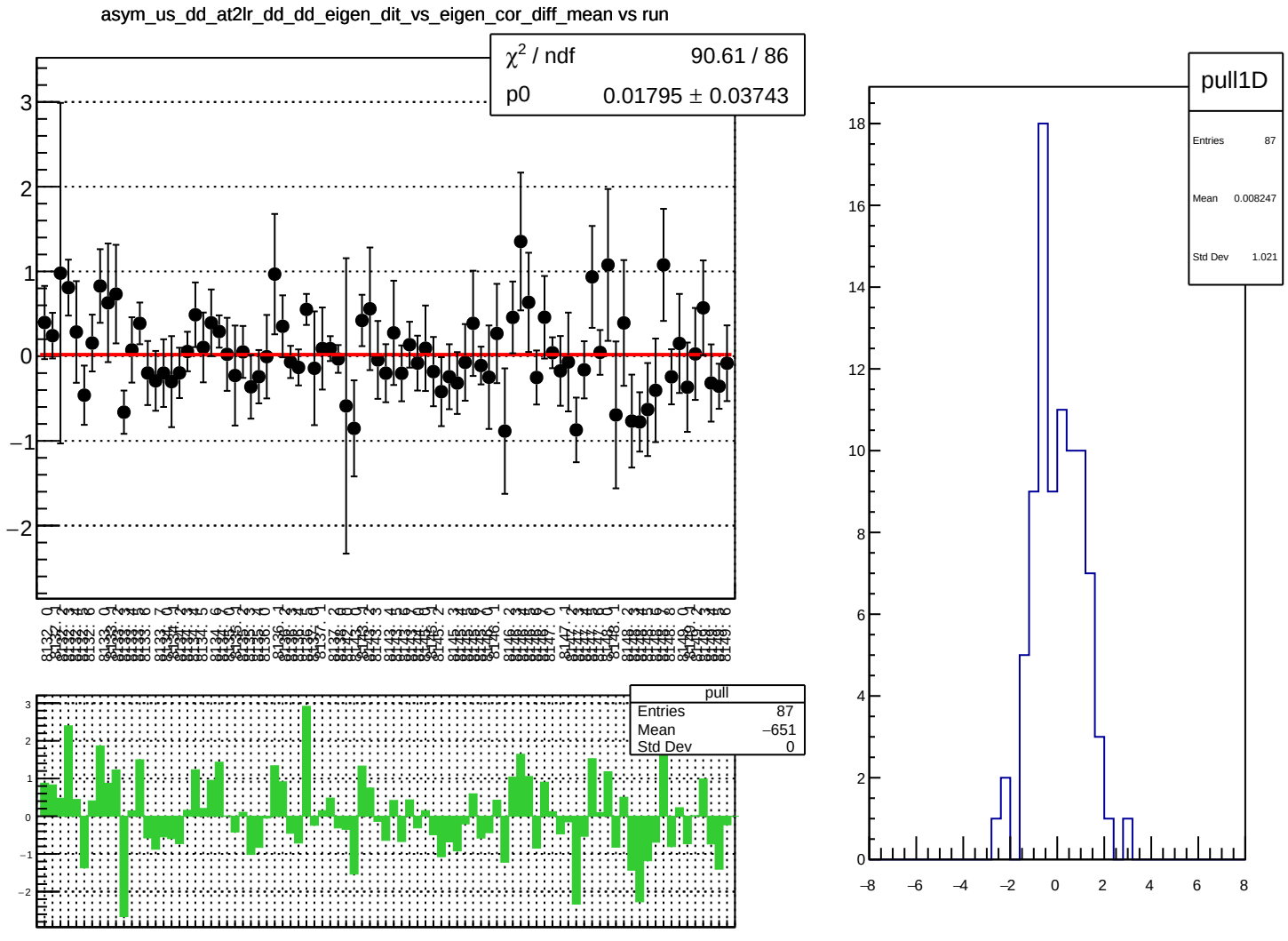

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.67 / 86
p0 −8.489e−06 ± 1.519e−05
pull
Entries 87
Mean −1819
Std Dev 0

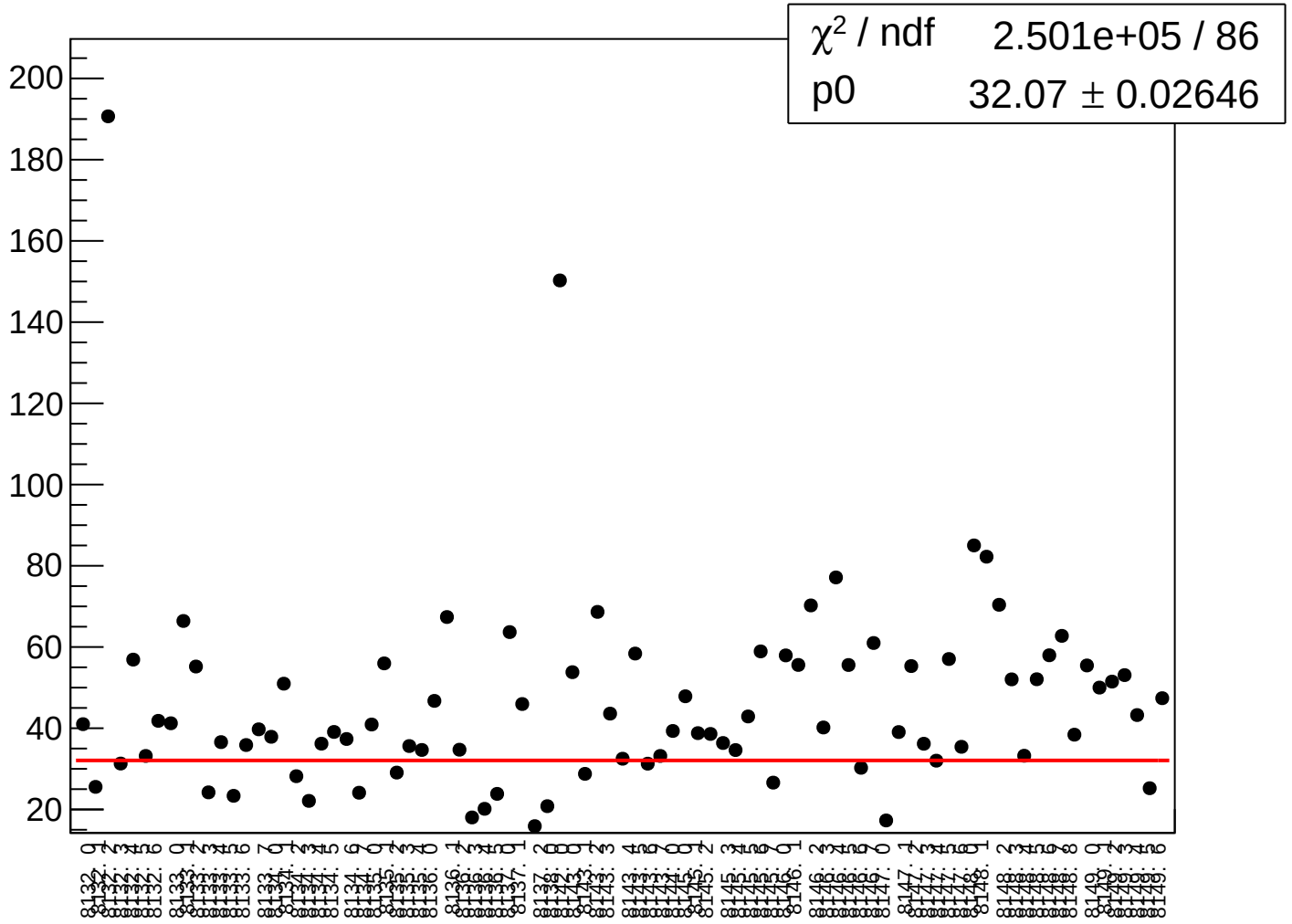

pull1D
Entries 87
Mean −0.0009967
Std Dev 1.004

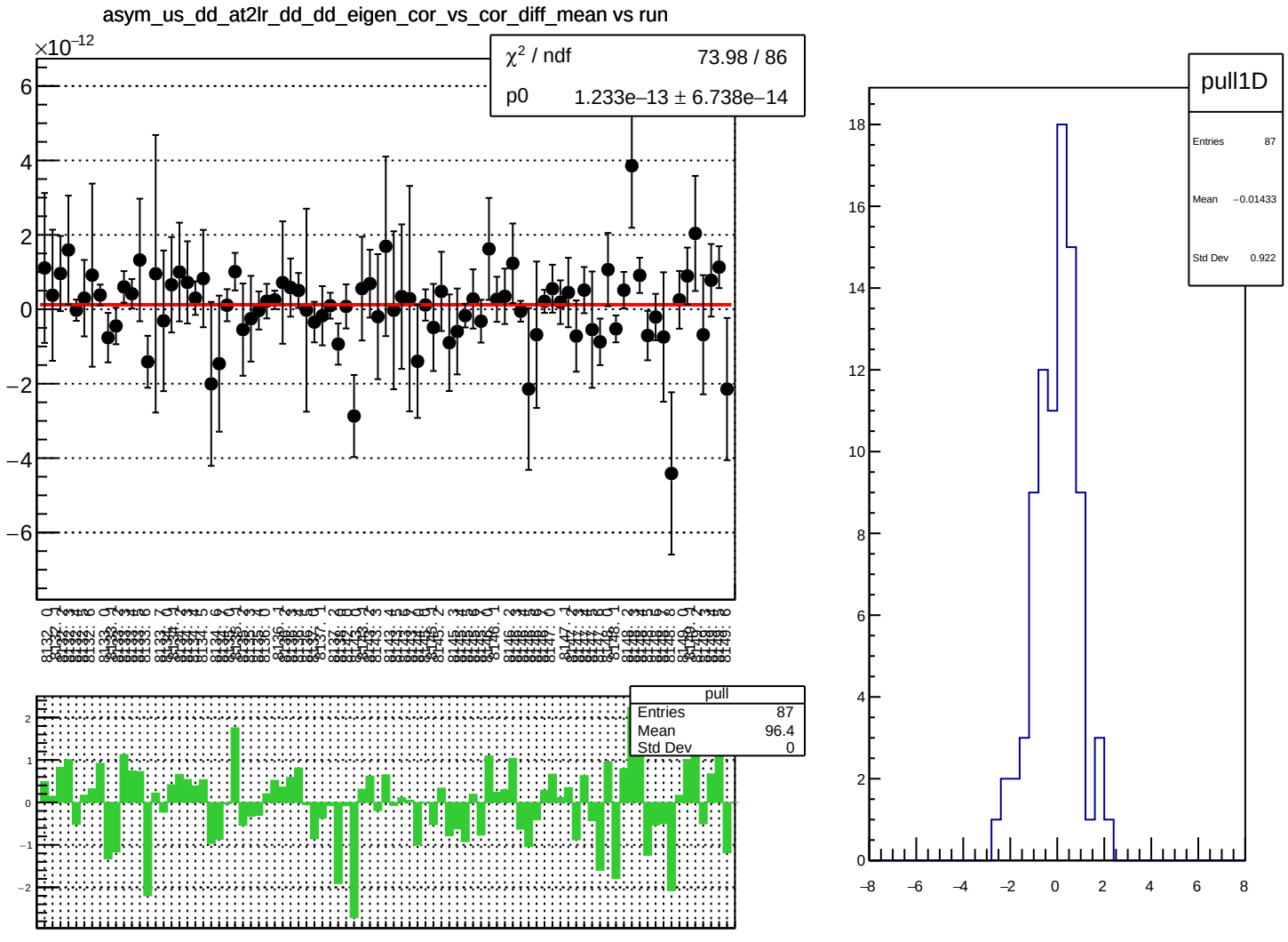

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.851e+04 / 86
p0 0.0138 ± 1.074e−05
0.019
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01

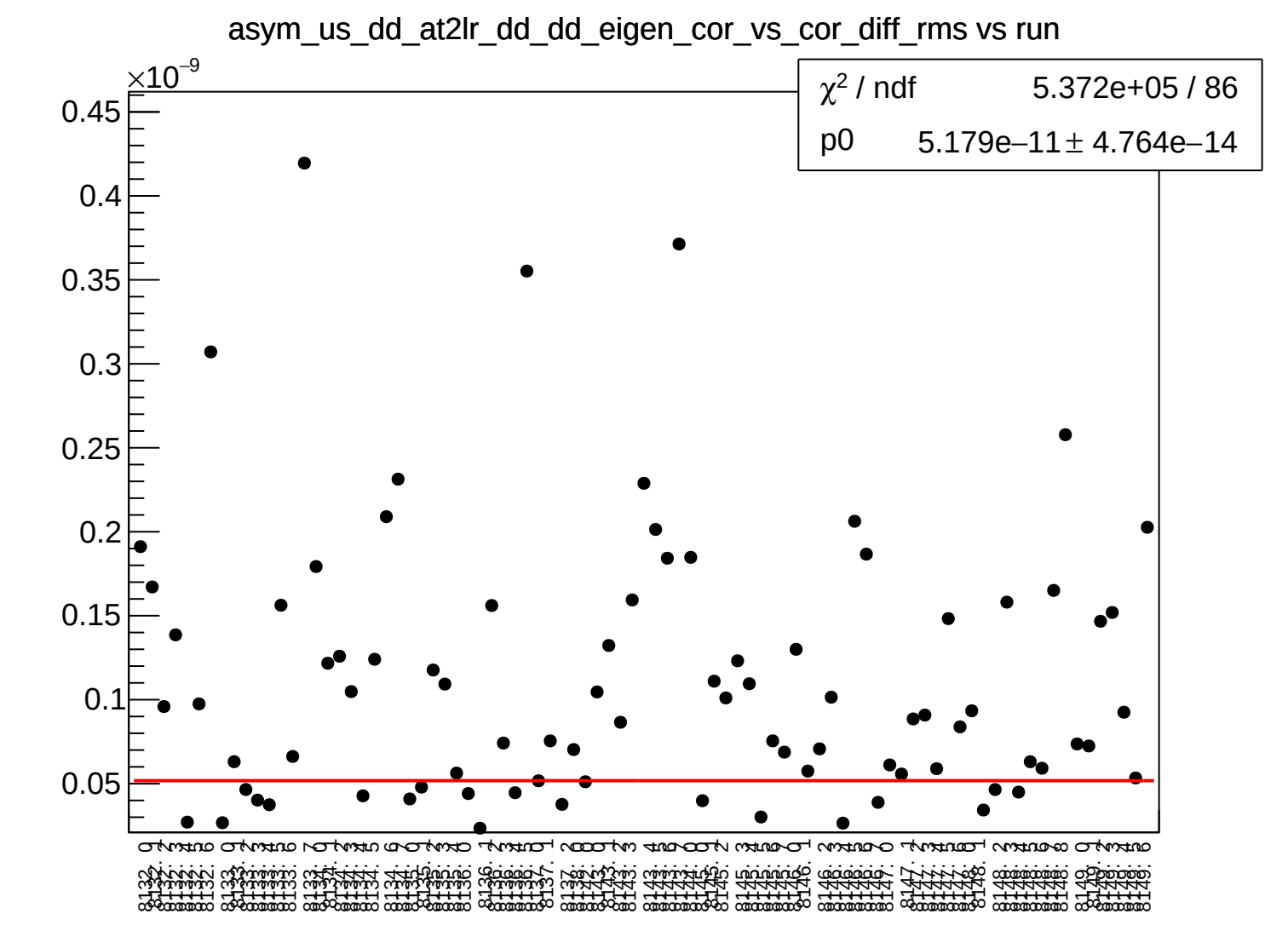

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.61 / 86
p0 0.01795 ± 0.03743
pull
Entries 87
Mean −651
Std Dev 0
pull1D
Entries 87
Mean 0.008247
Std Dev 1.021

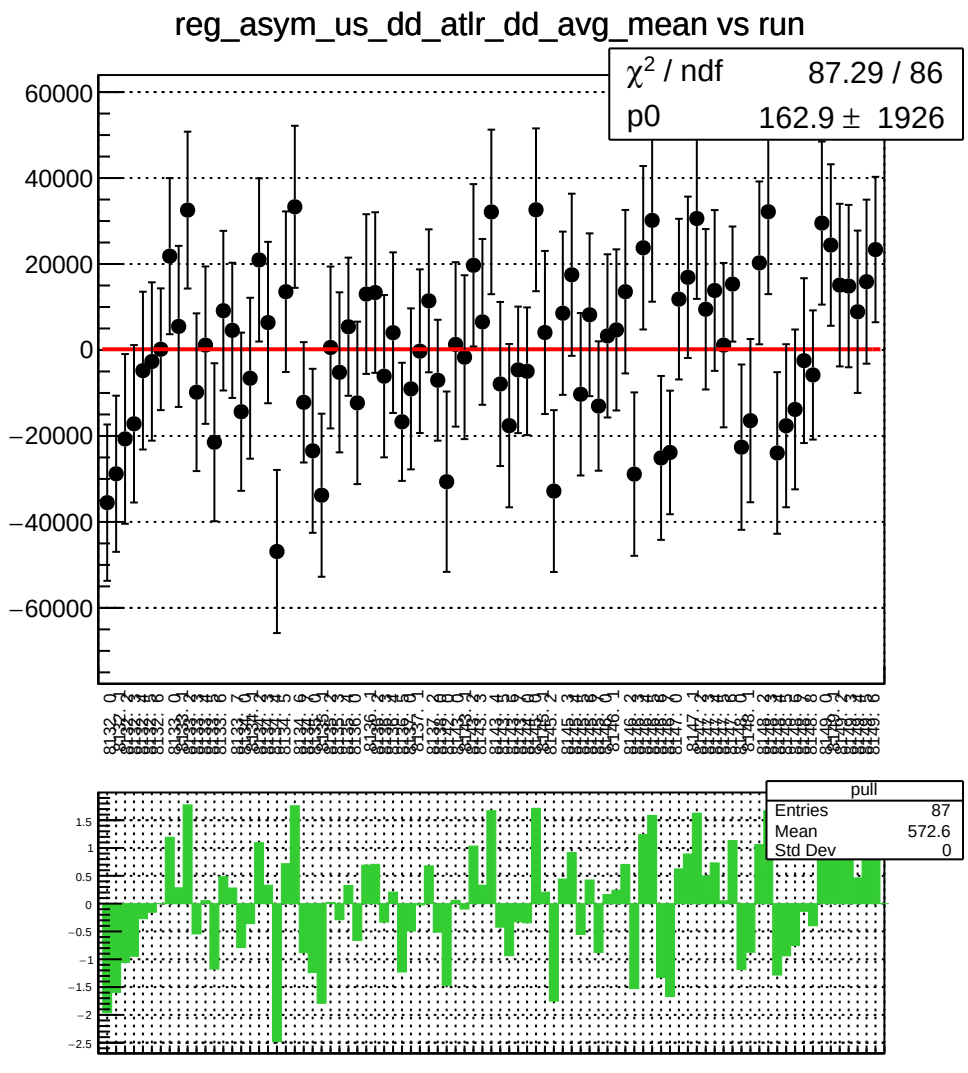

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.501e+05 / 86
p0 32.07 ± 0.02646
200
180
160
140
120
100
80
60
40
20

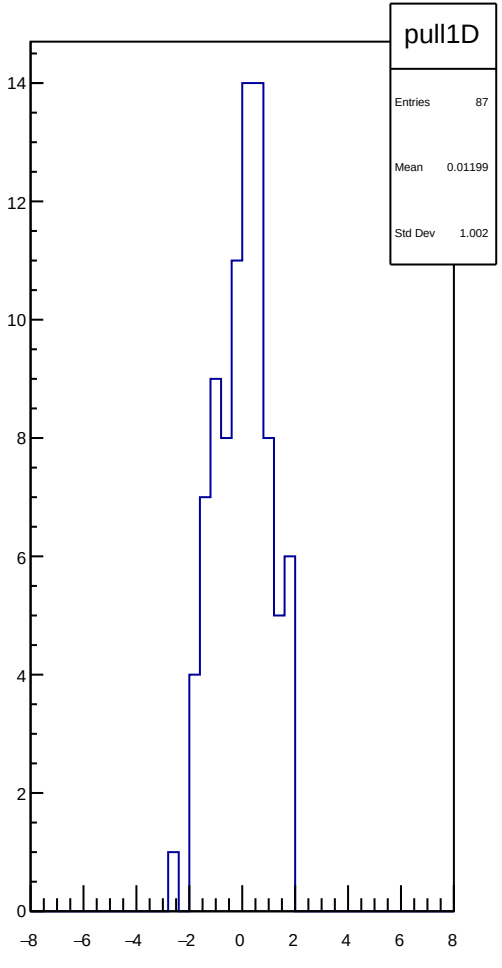

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.61 / 86
p0 0.01795 ± 0.03743
pull
Entries 87
Mean −651
Std Dev 0
pull1D
Entries 87
Mean 0.008247
Std Dev 1.021

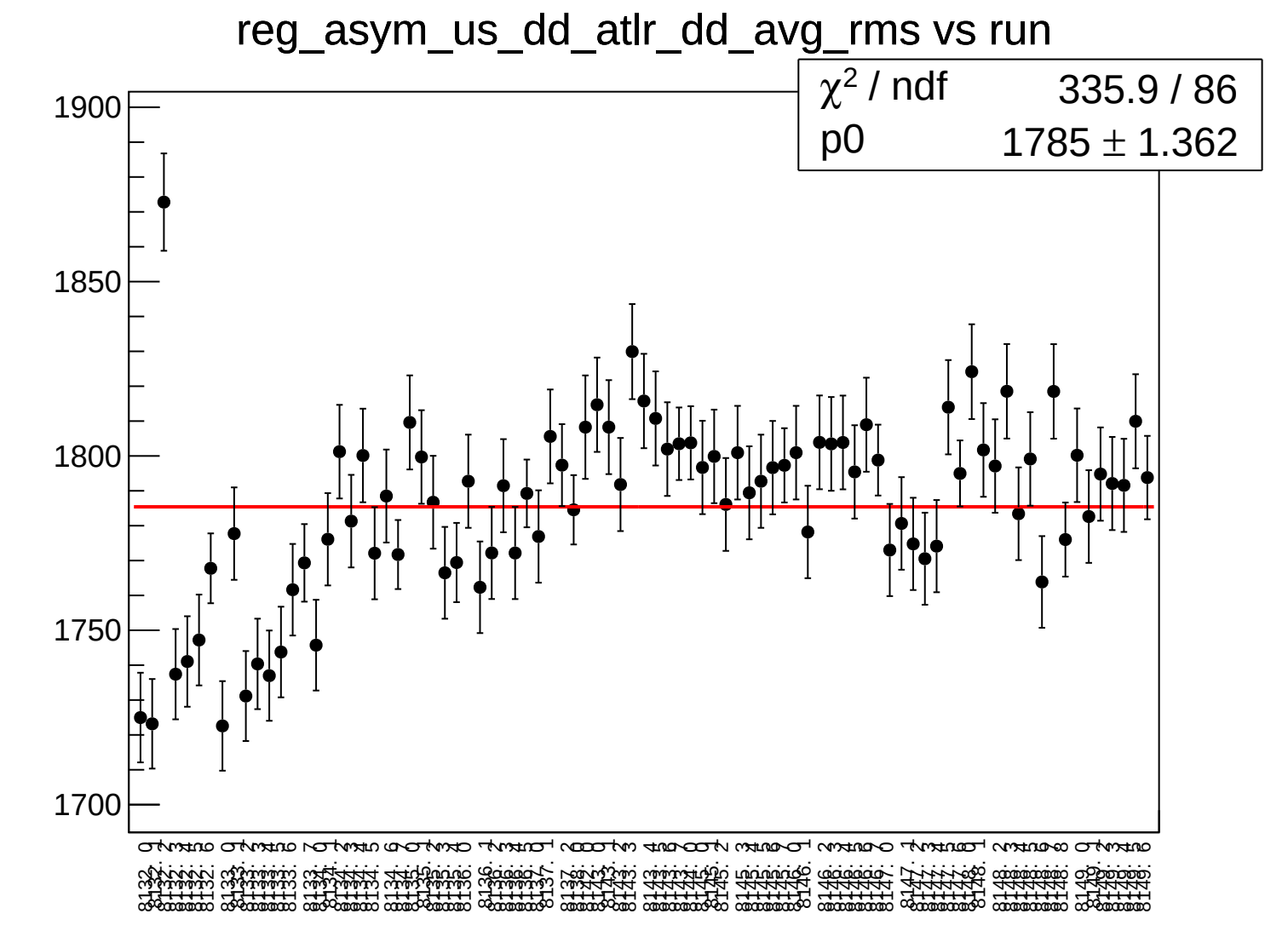

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.501e+05 / 86
p0 32.07 ± 0.02646
200
180
160
140
120
100
80
60
40
20

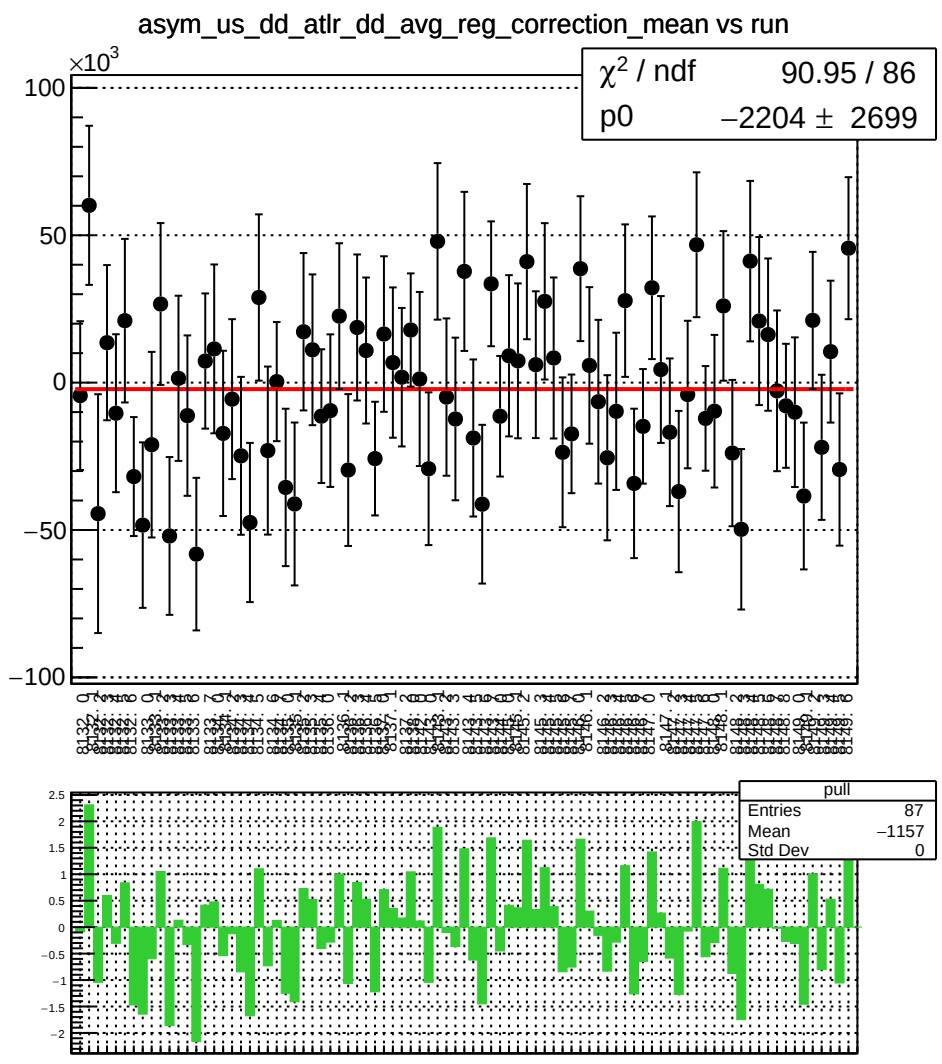

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 73.98 / 86
p0 1.233e−13 ± 6.738e−14
pull
Entries 87
Mean 96.4
Std Dev 0
pull1D
Entries 87
Mean −0.01433
Std Dev 0.922

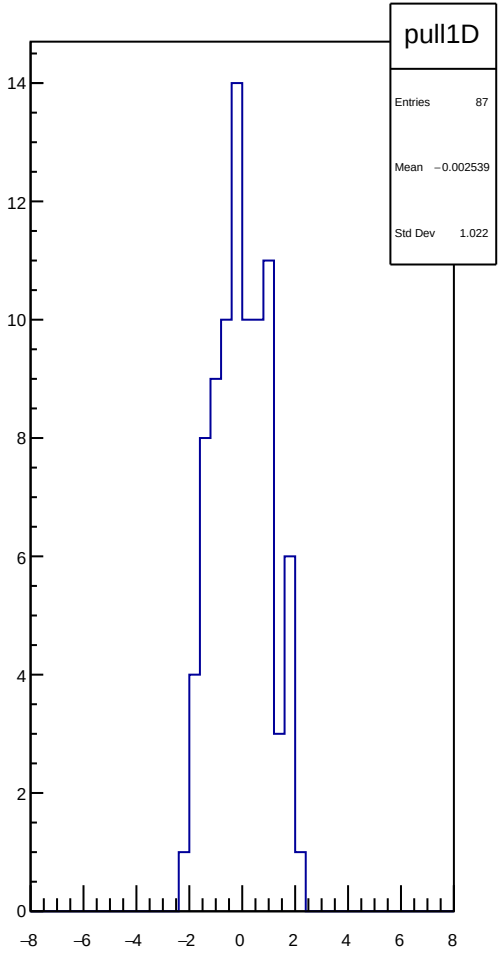

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.372e+05 / 86
p0 5.179e−11 ± 4.764e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

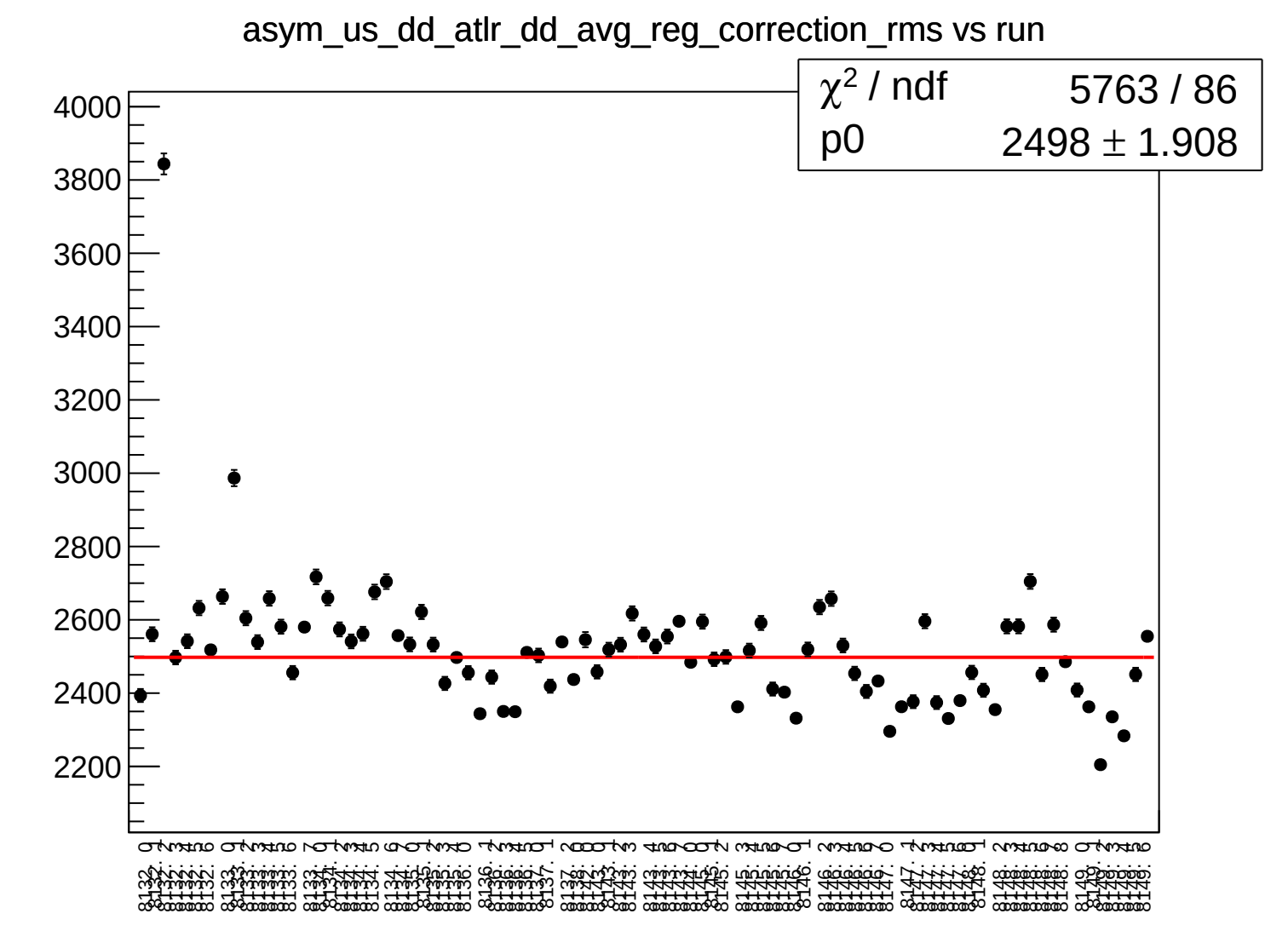

reg_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 87.29 / 86
p0 162.9 ± 1926
pull
Entries 87
Mean 572.6
Std Dev 0

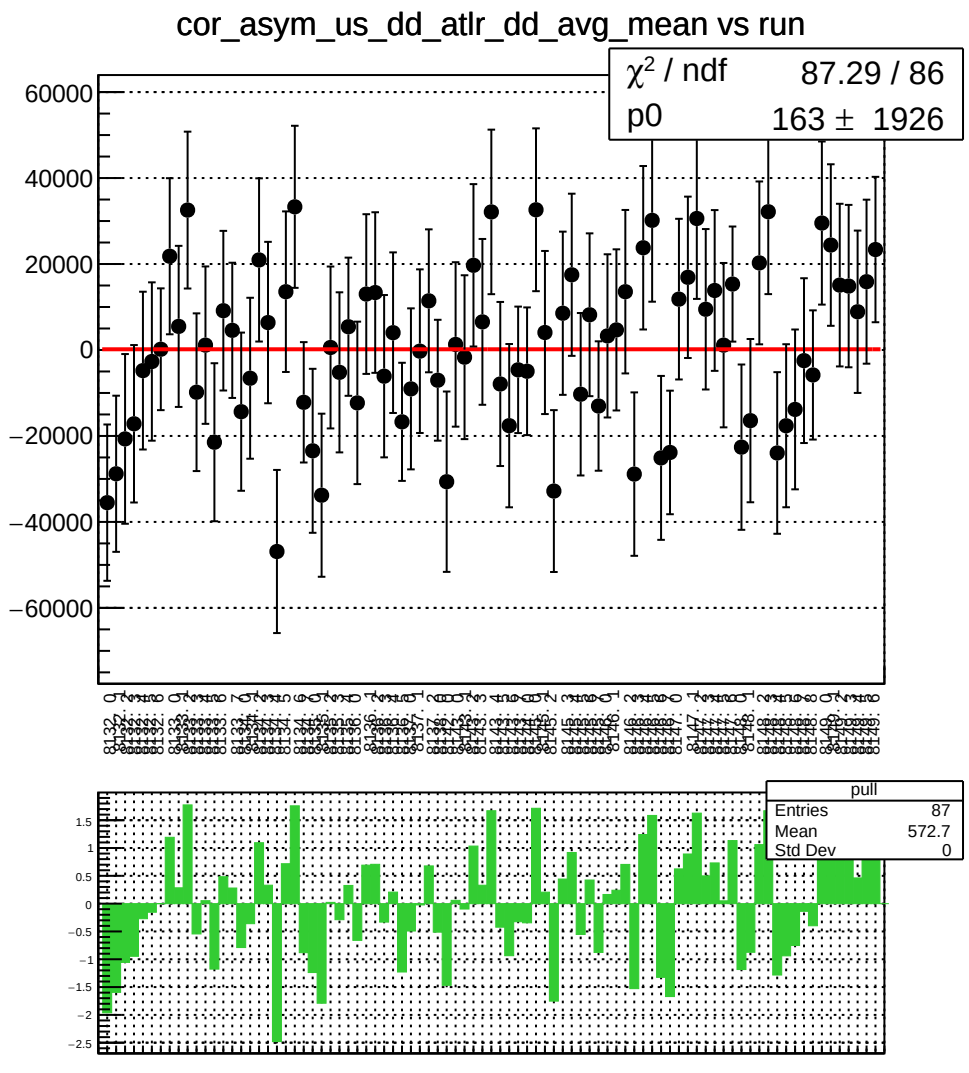

pull1D
Entries 87
Mean 0.01199
Std Dev 1.002

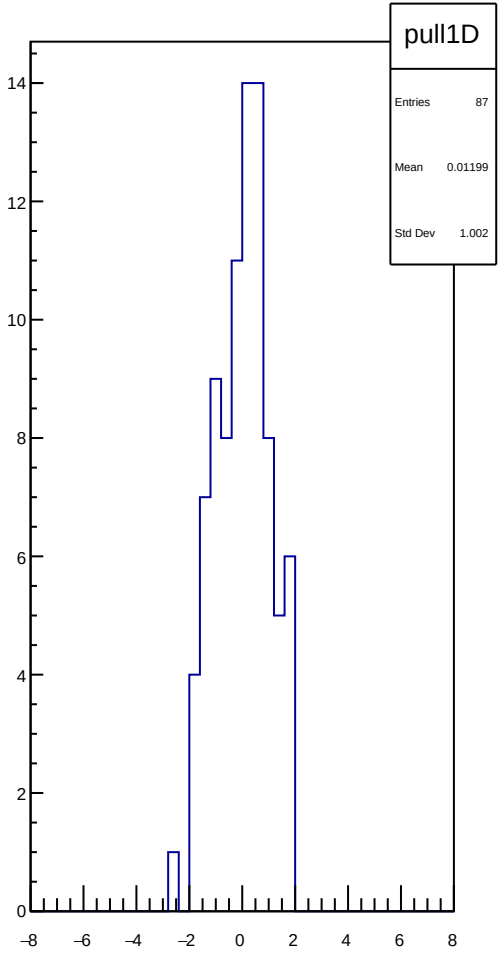

reg_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 335.9 / 86
p0 1785 ± 1.362
1900
1850
1800
1750
1700

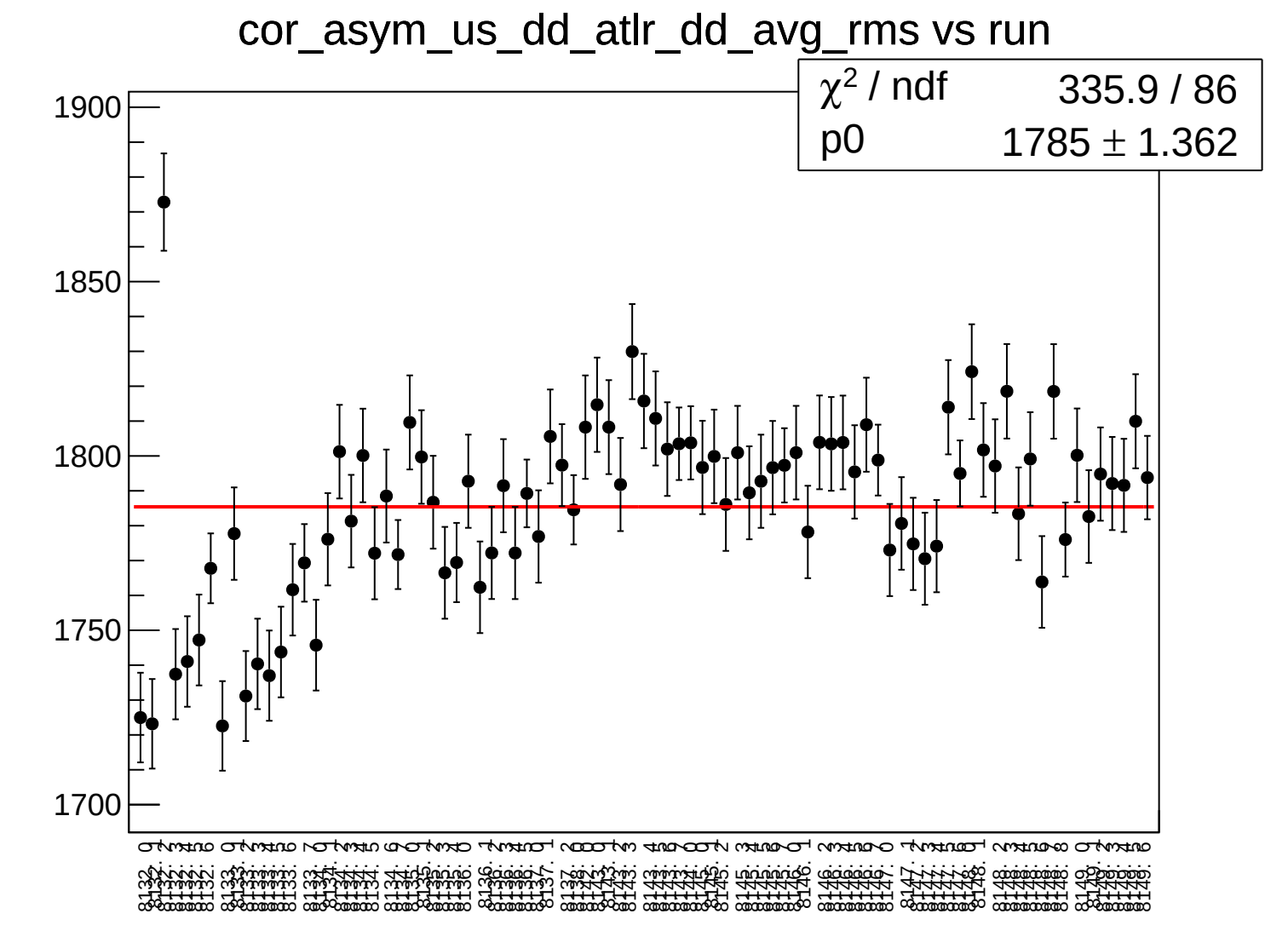

asym_us_dd_atlr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 90.95 / 86
p0 −2204 ± 2699
pull
Entries 87
Mean −1157
Std Dev 0

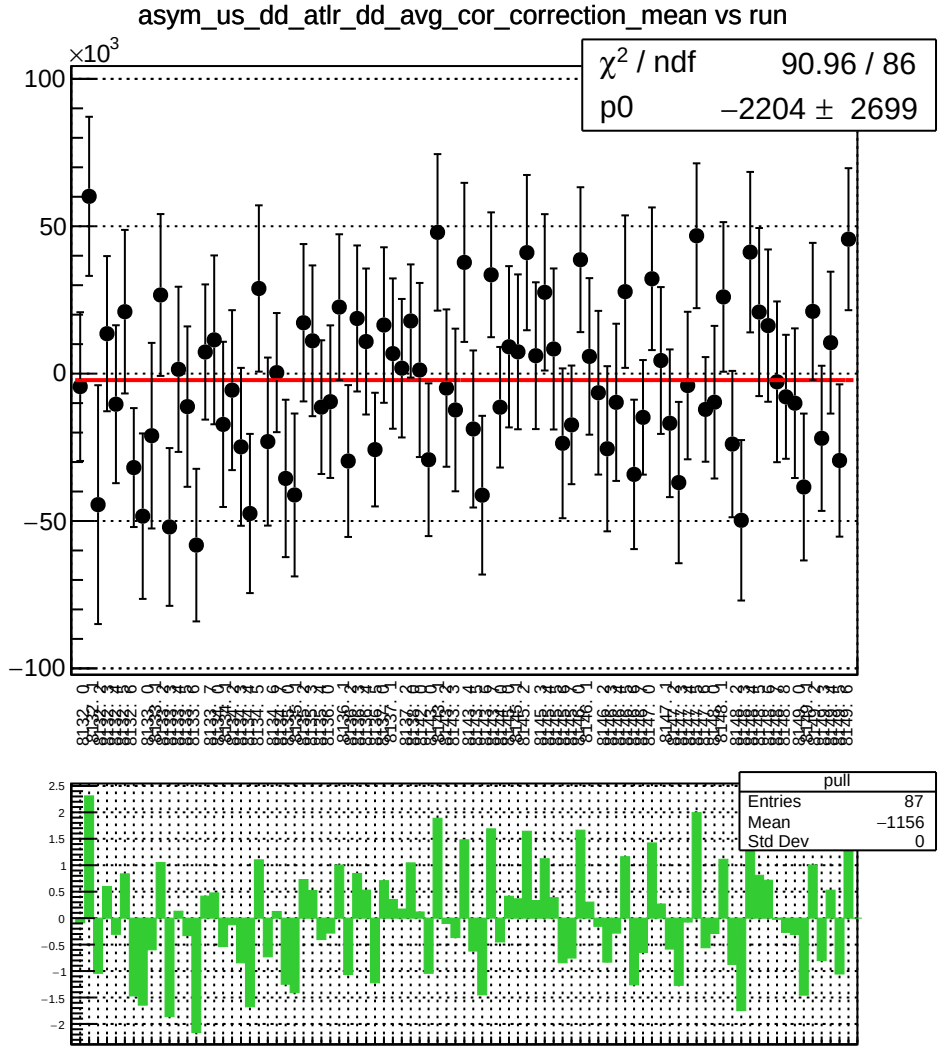

pull1D
Entries 87
Mean −0.002539
Std Dev 1.022

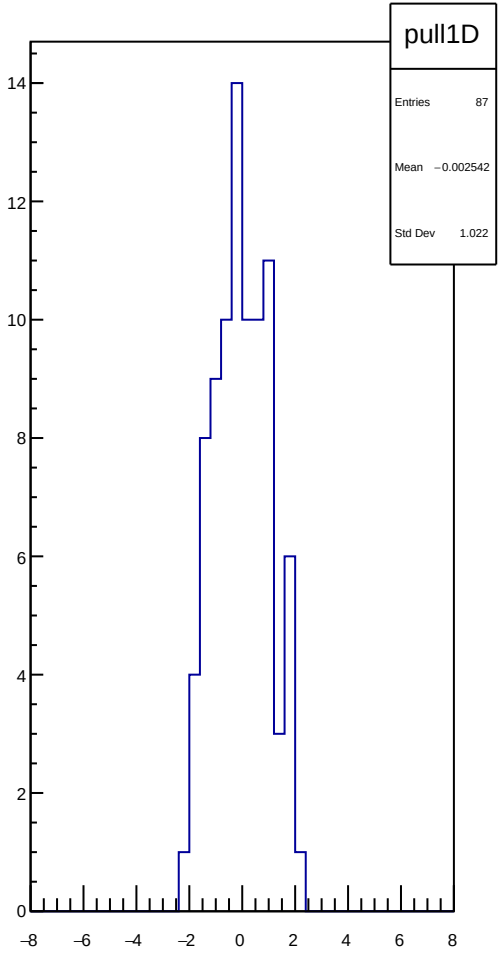

asym_us_dd_atlr_dd_avg_reg_correction_rms vs run
χ² / ndf 5763 / 86
p0 2498 ± 1.908
4000
3800
3600
3400
3200
3000
2800
2600
2400
2200

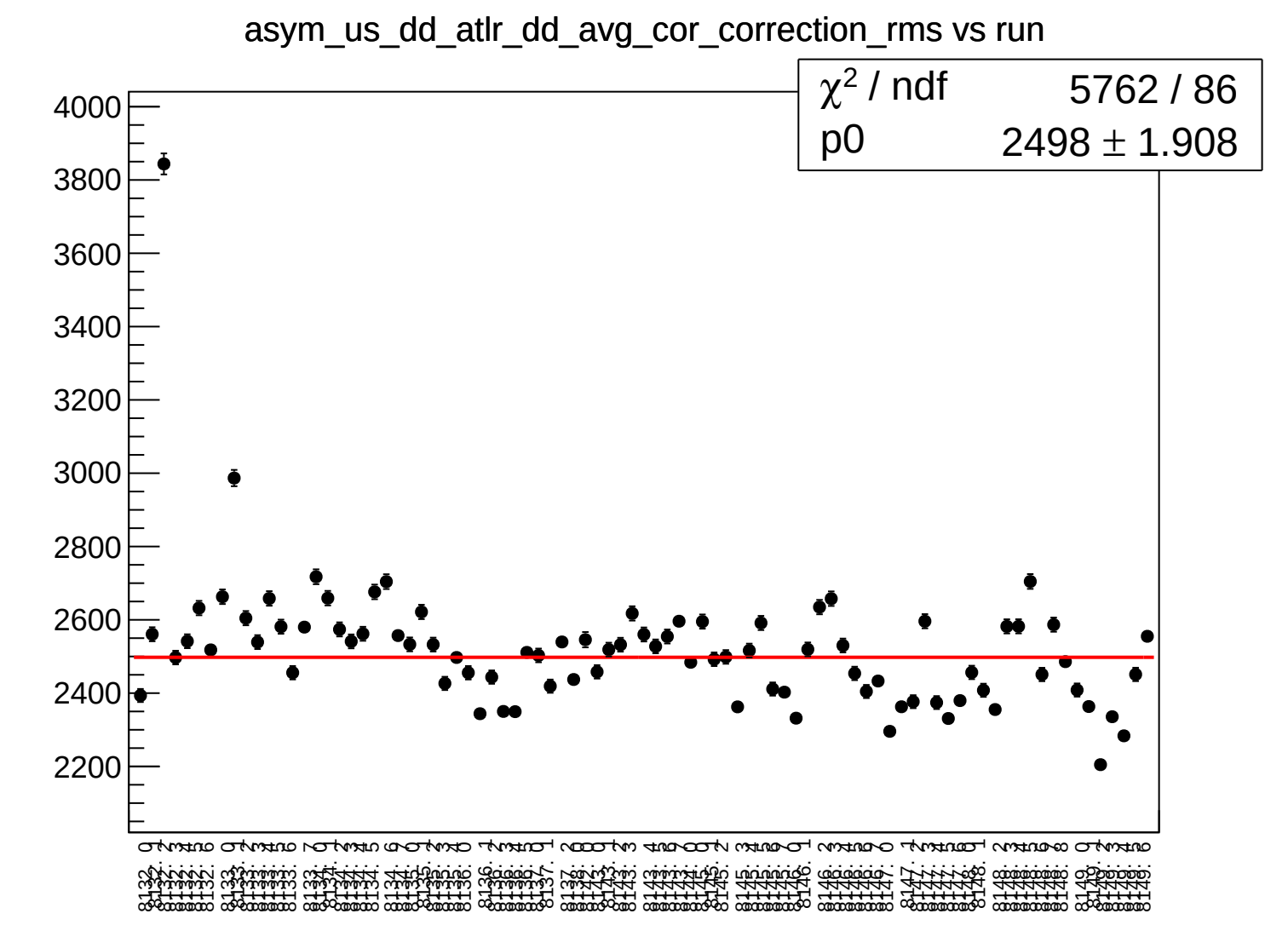

cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 87.29 / 86
p0 163 ± 1926
pull
Entries 87
Mean 572.7
Std Dev 0

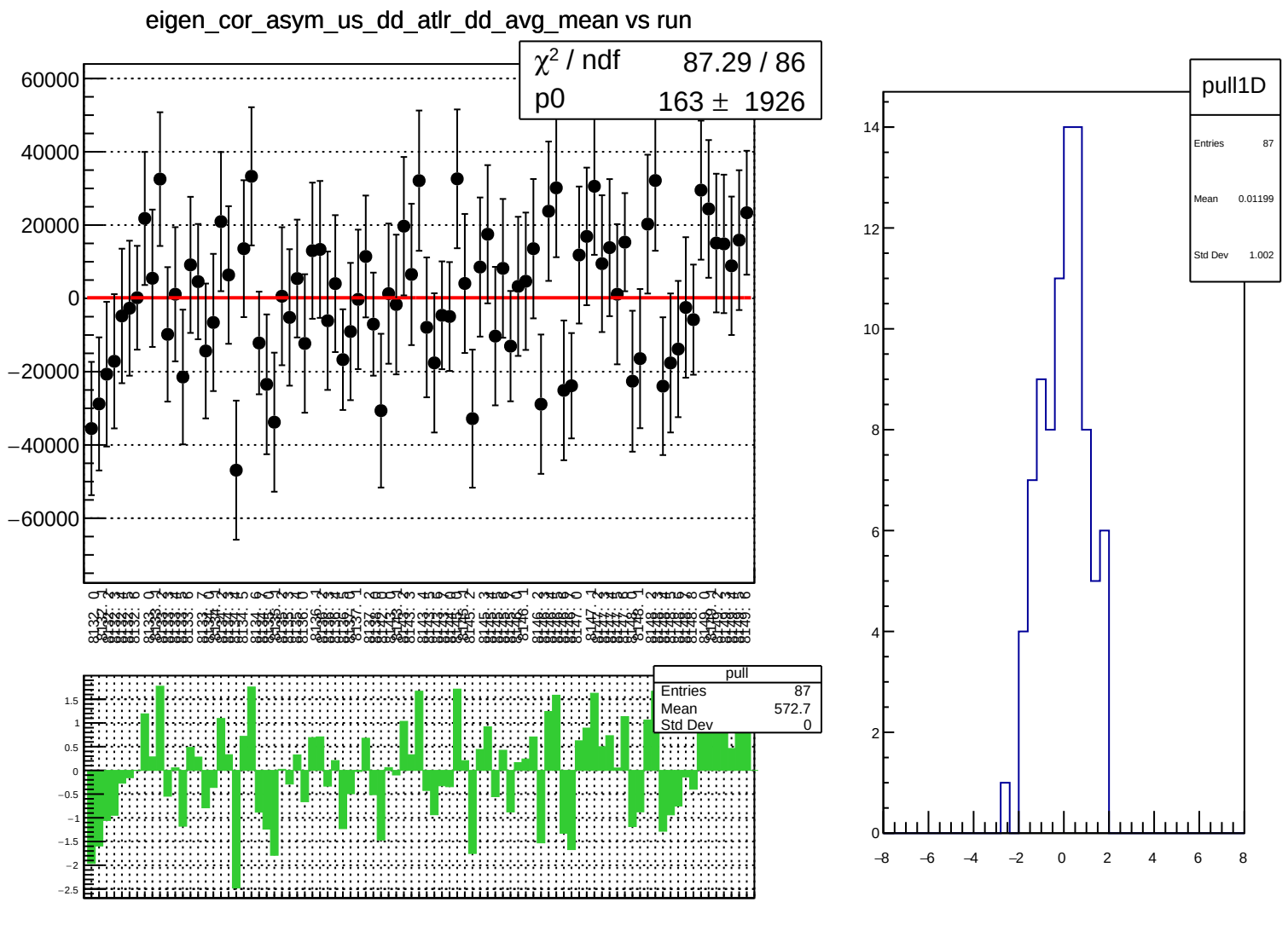

pull1D
Entries 87
Mean 0.01199
Std Dev 1.002

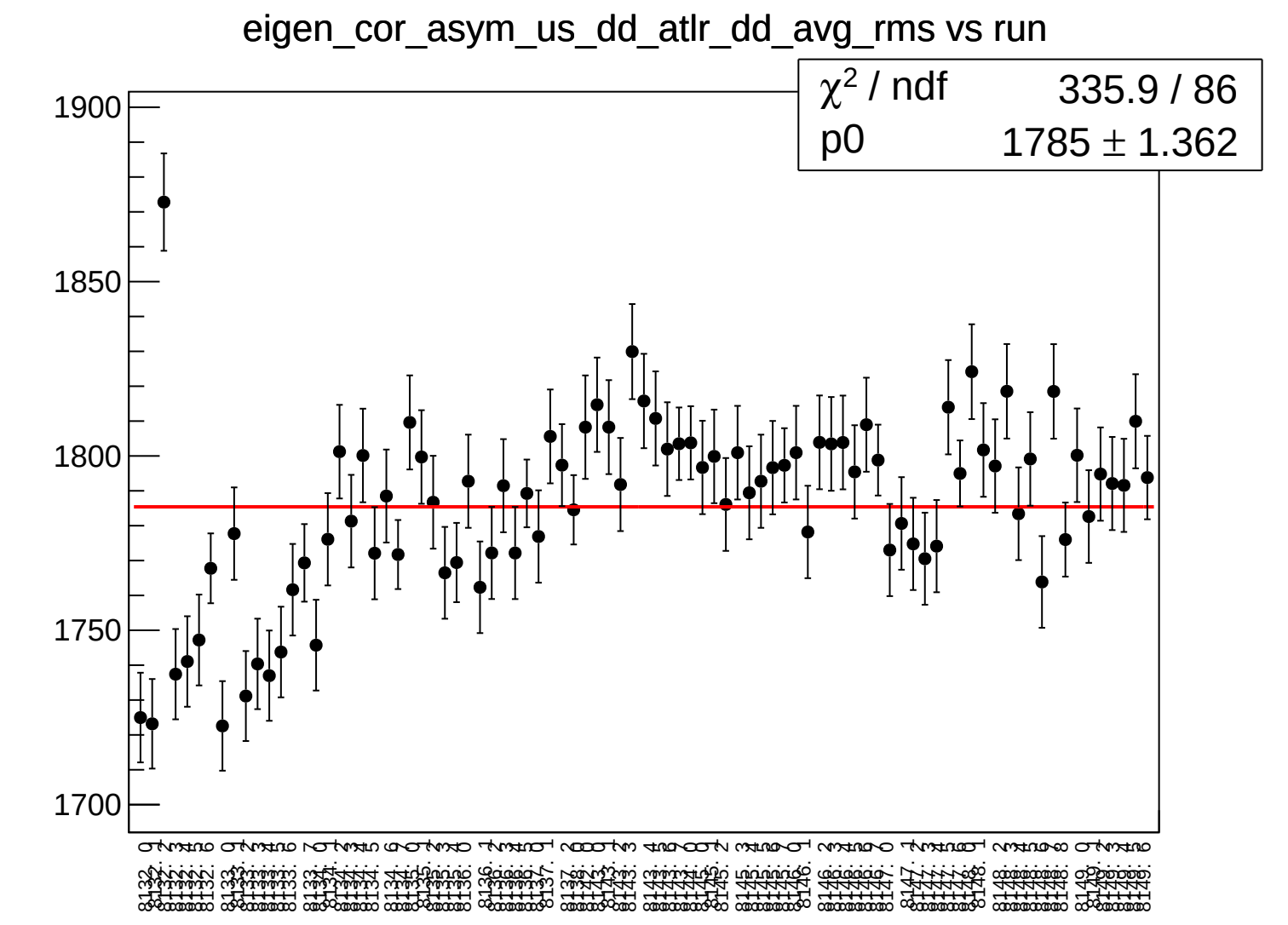

cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 335.9 / 86
p0 1785 ± 1.362
1900
1850
1800
1750
1700

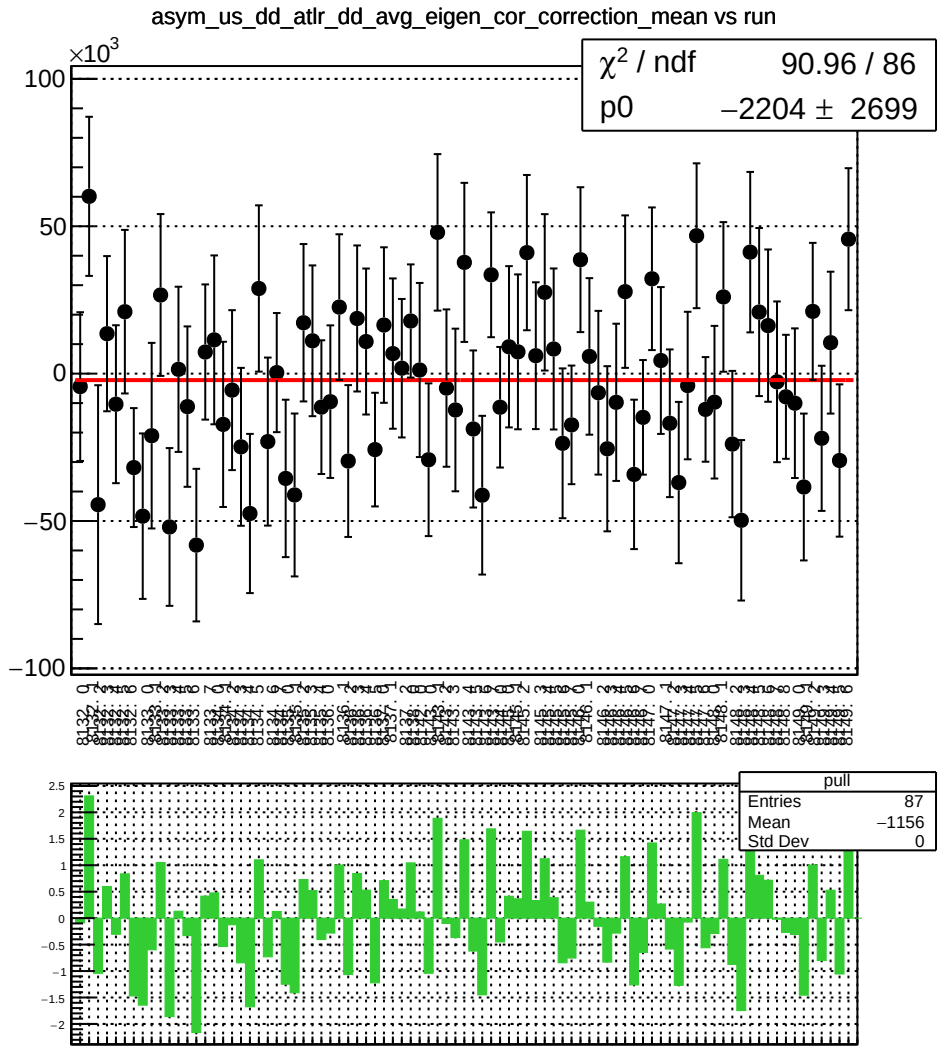

asym_us_dd_atlr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 90.96 / 86
p0 −2204 ± 2699
pull
Entries 87
Mean −1156
Std Dev 0

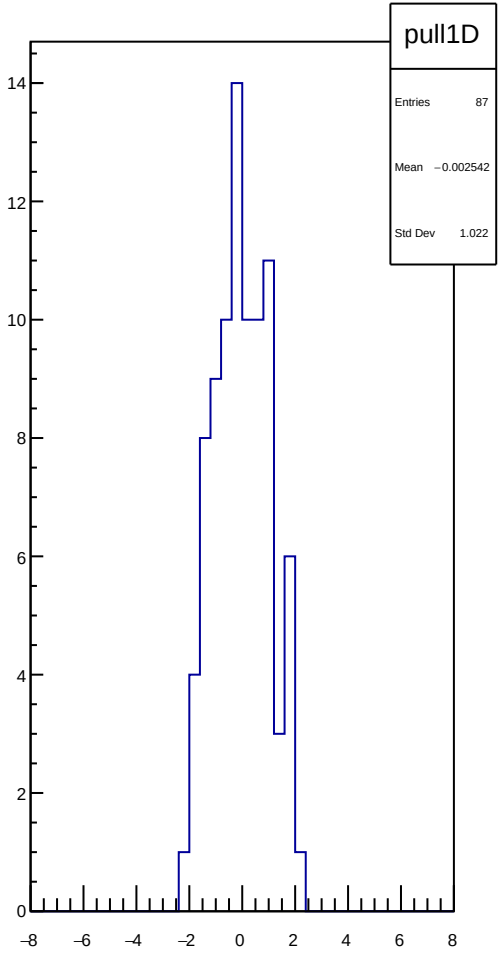

pull1D
Entries 87
Mean −0.002542
Std Dev 1.022

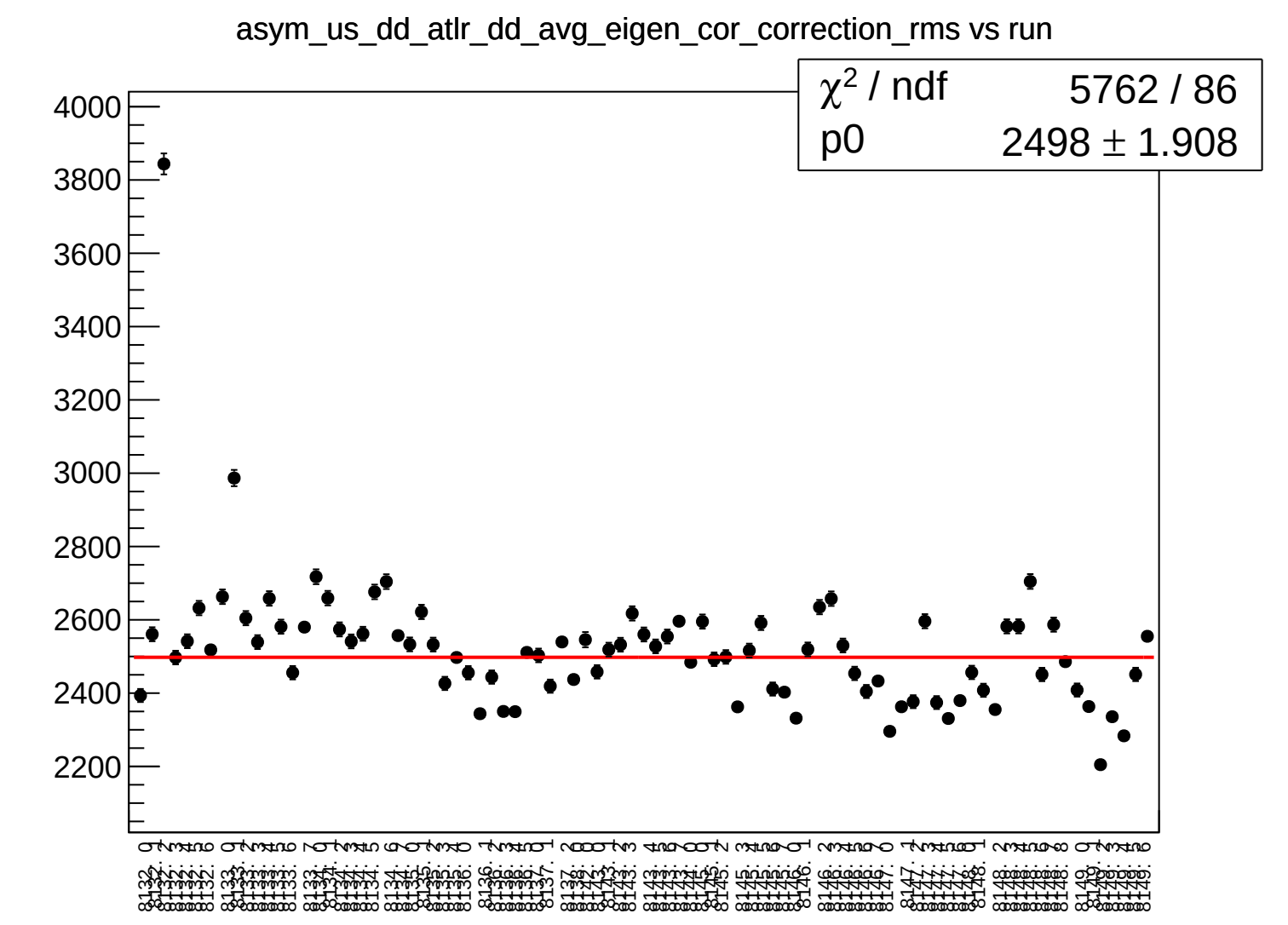

asym_us_dd_atlr_dd_avg_cor_correction_rms vs run
χ² / ndf 5762 / 86
p0 2498 ± 1.908
4000
3800
3600
3400
3200
3000
2800
2600
2400
2200

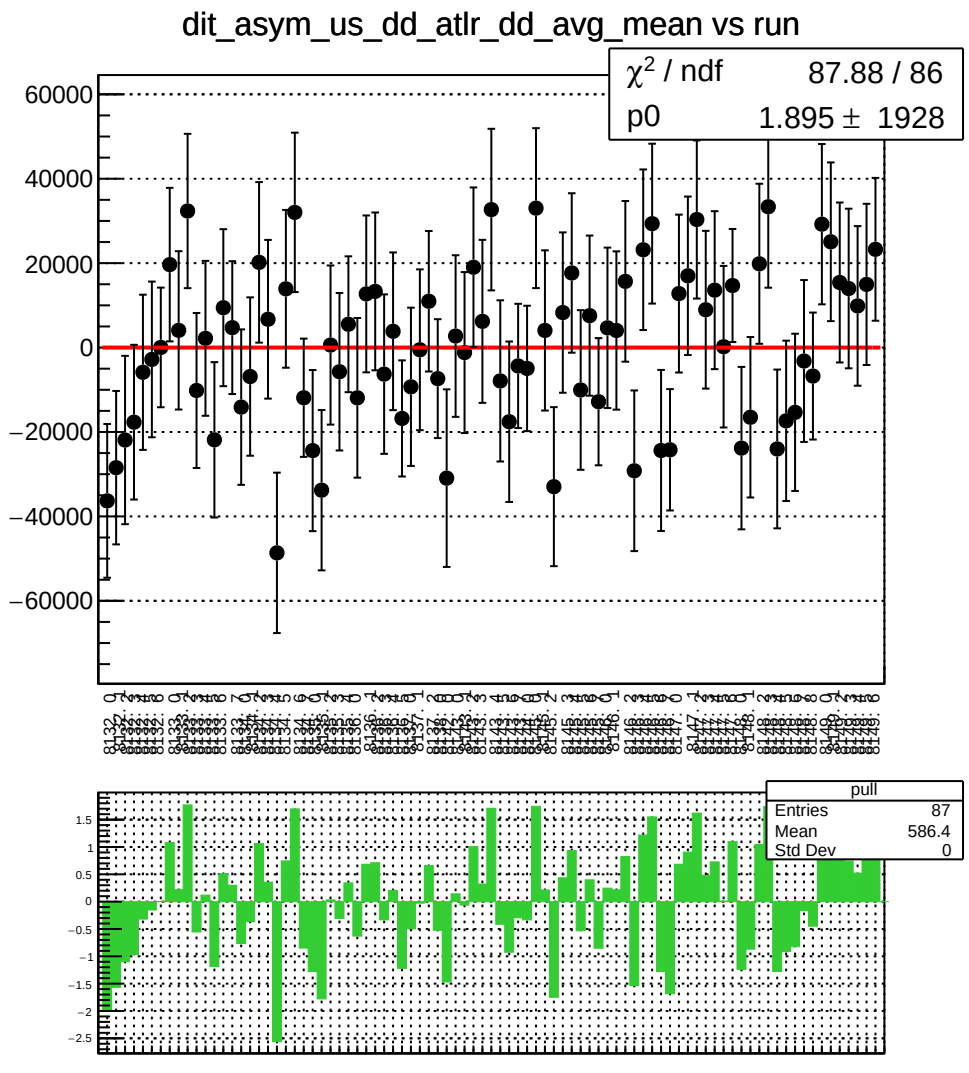

eigen_cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 87.29 / 86
p0 163 ± 1926
pull
Entries 87
Mean 572.7
Std Dev 0
pull1D
Entries 87
Mean 0.01199
Std Dev 1.002

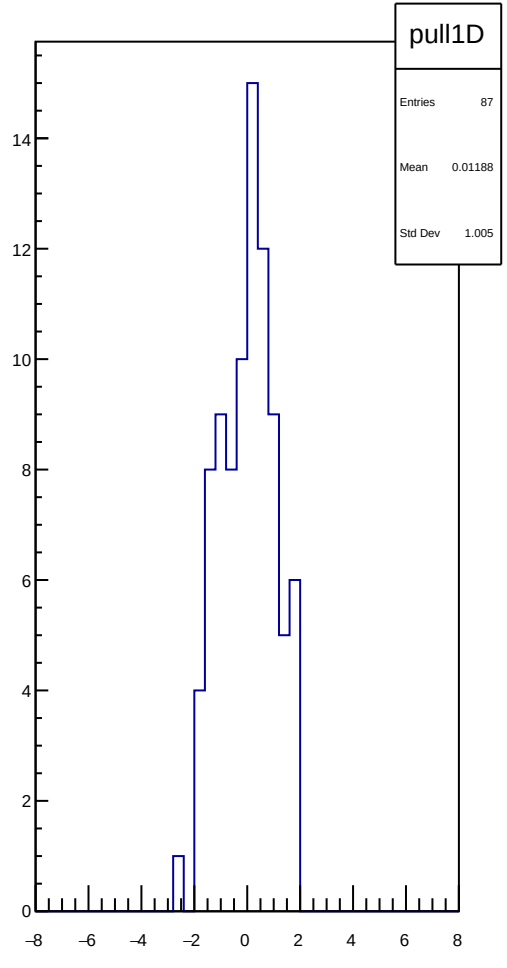

eigen_cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 335.9 / 86
p0 1785 ± 1.362
1900
1850
1800
1750
1700

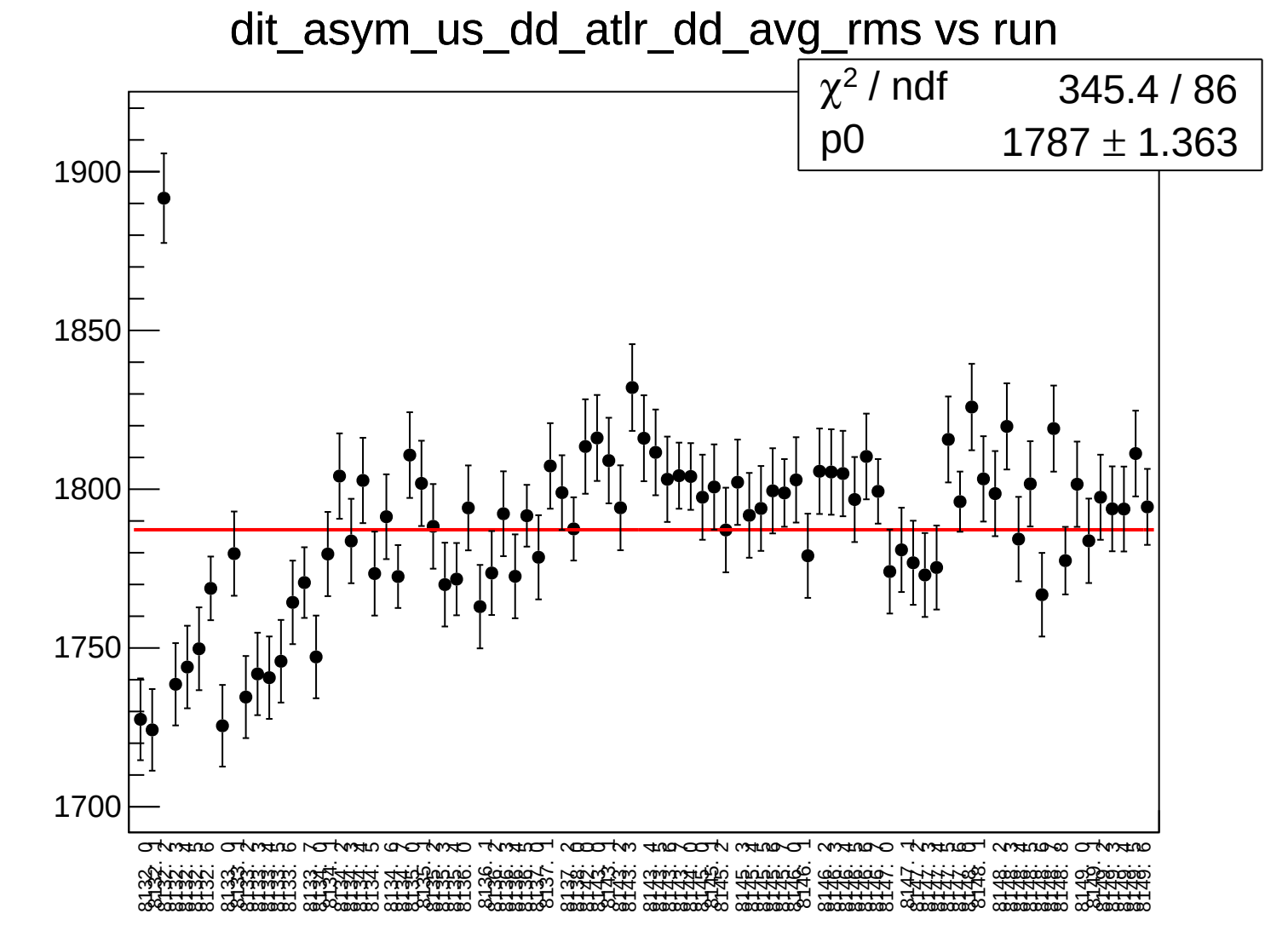

asym_us_dd_atlr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 90.96 / 86
p0 −2204 ± 2699
pull
Entries 87
Mean −1156
Std Dev 0

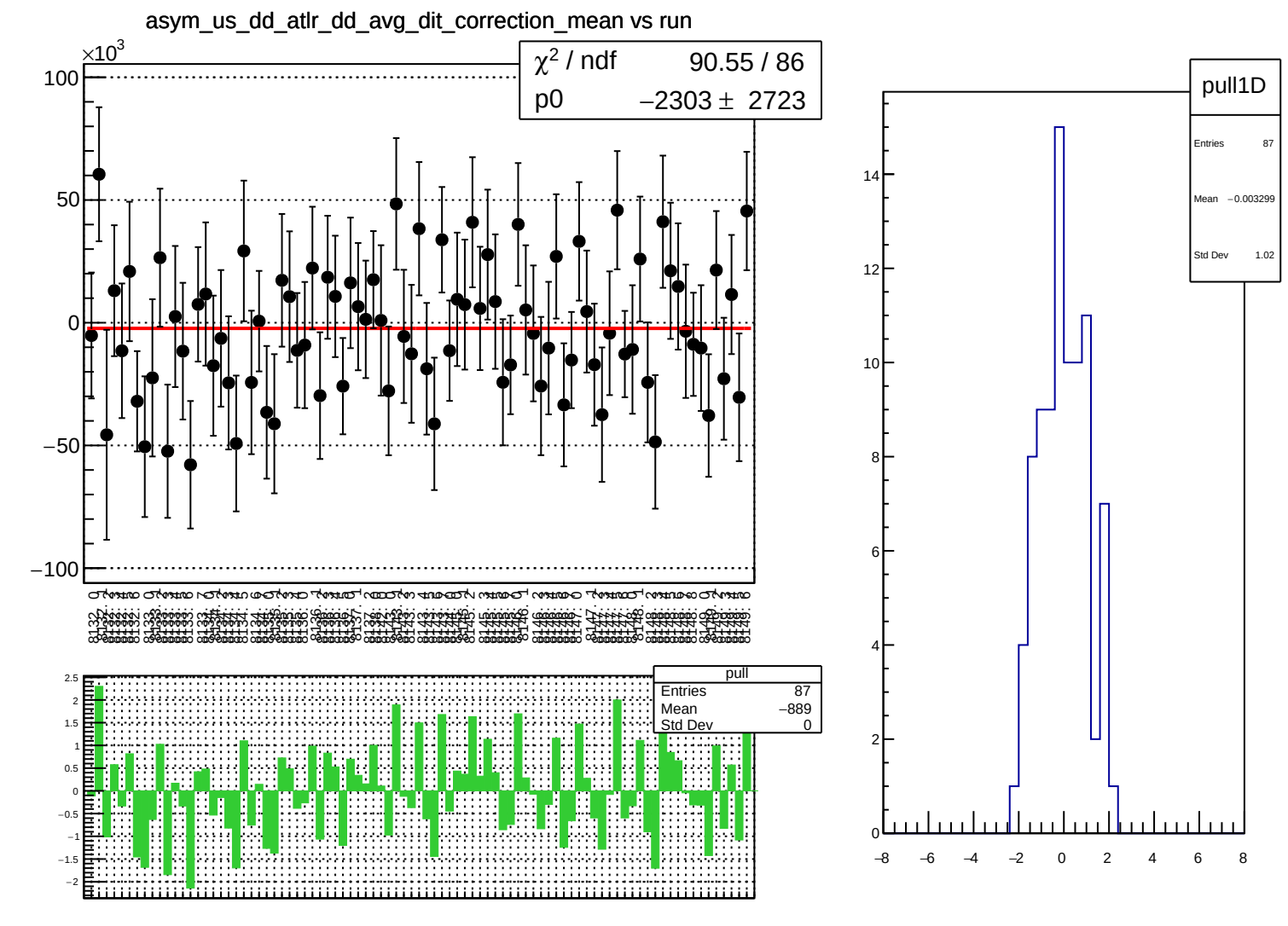

pull1D
Entries 87
Mean −0.002542
Std Dev 1.022

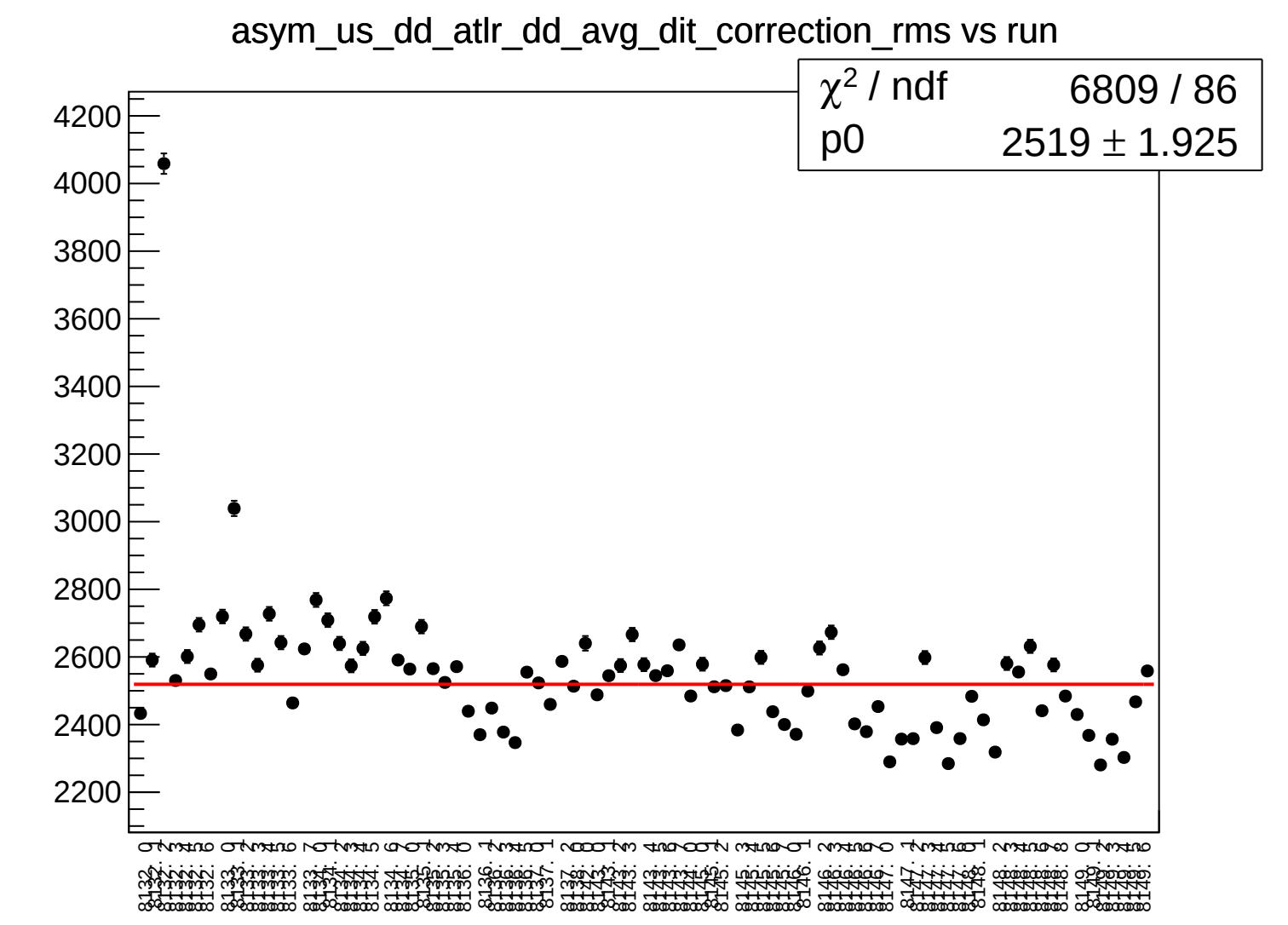

asym_us_dd_atlr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 5762 / 86
p0 2498 ± 1.908
4000
3800
3600
3400
3200
3000
2800
2600
2400
2200

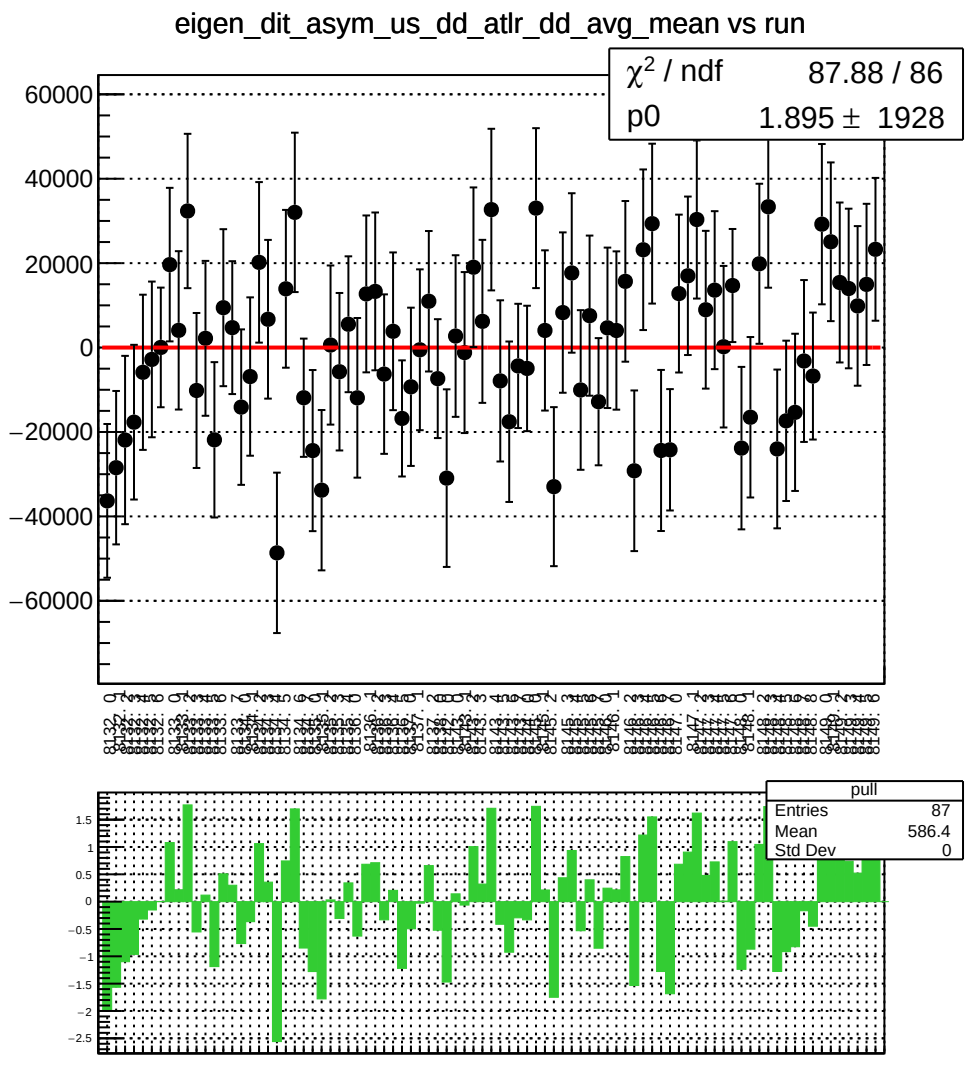

dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 87.88 / 86
p0 1.895 ± 1928
pull
Entries 87
Mean 586.4
Std Dev 0

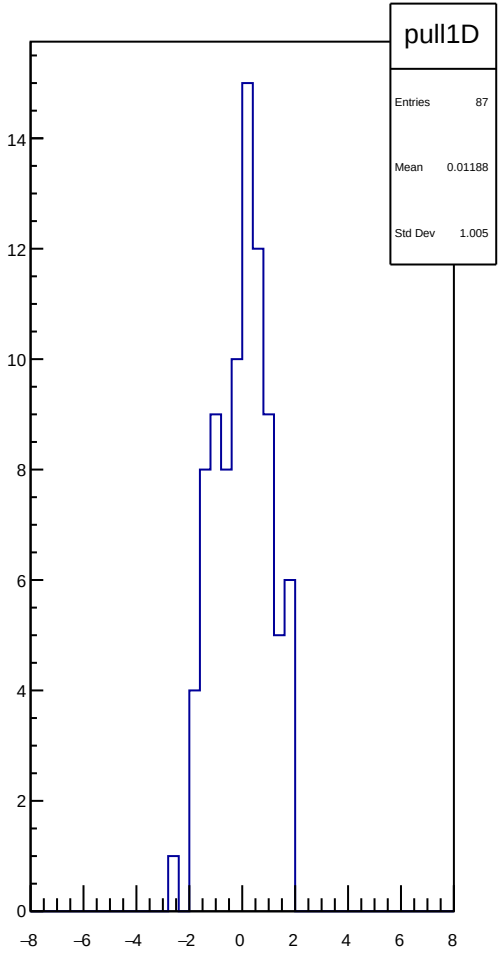

pull1D
Entries 87
Mean 0.01188
Std Dev 1.005

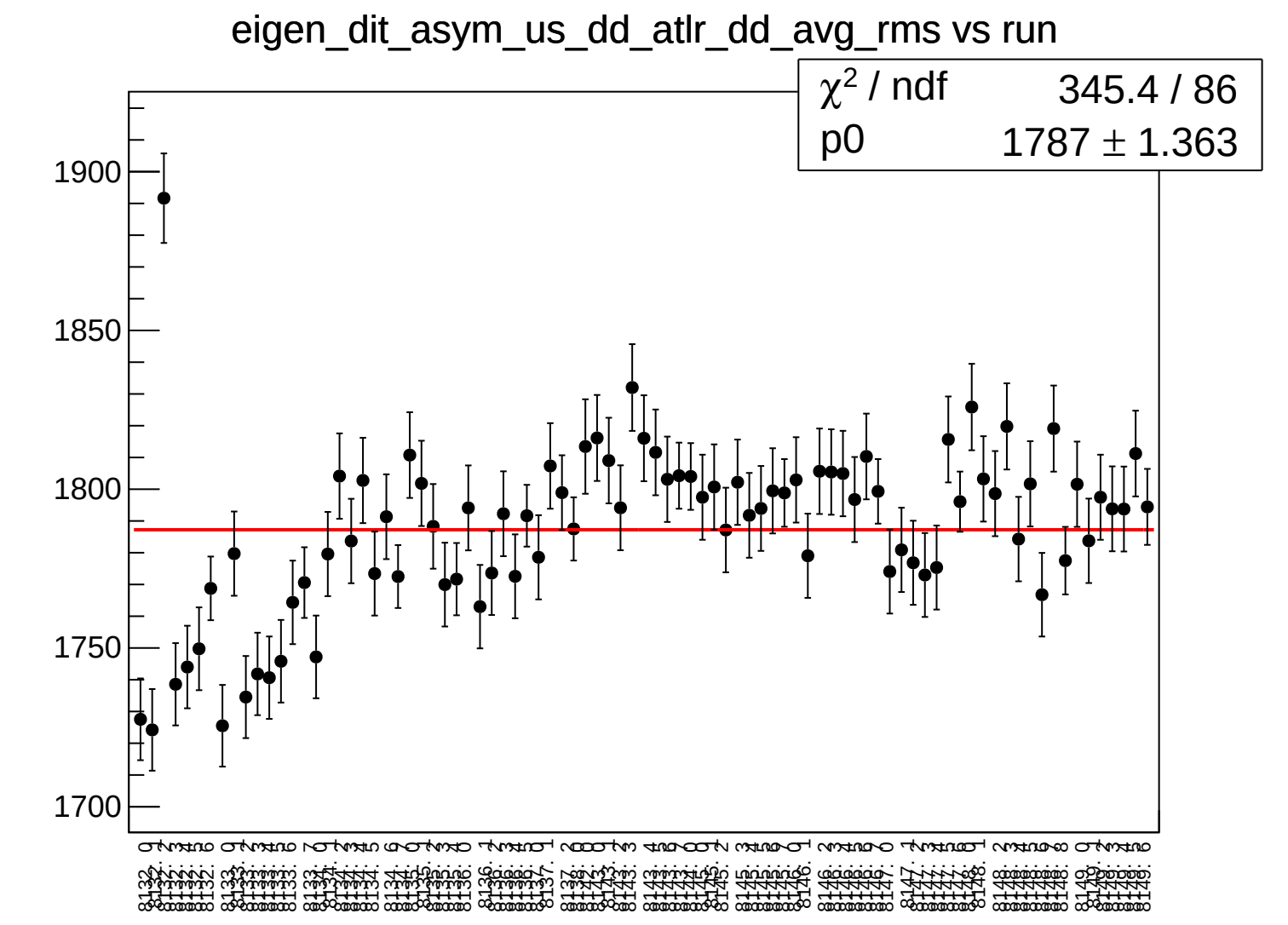

dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 345.4 / 86
p0 1787 ± 1.363
1900
1850
1800
1750
1700

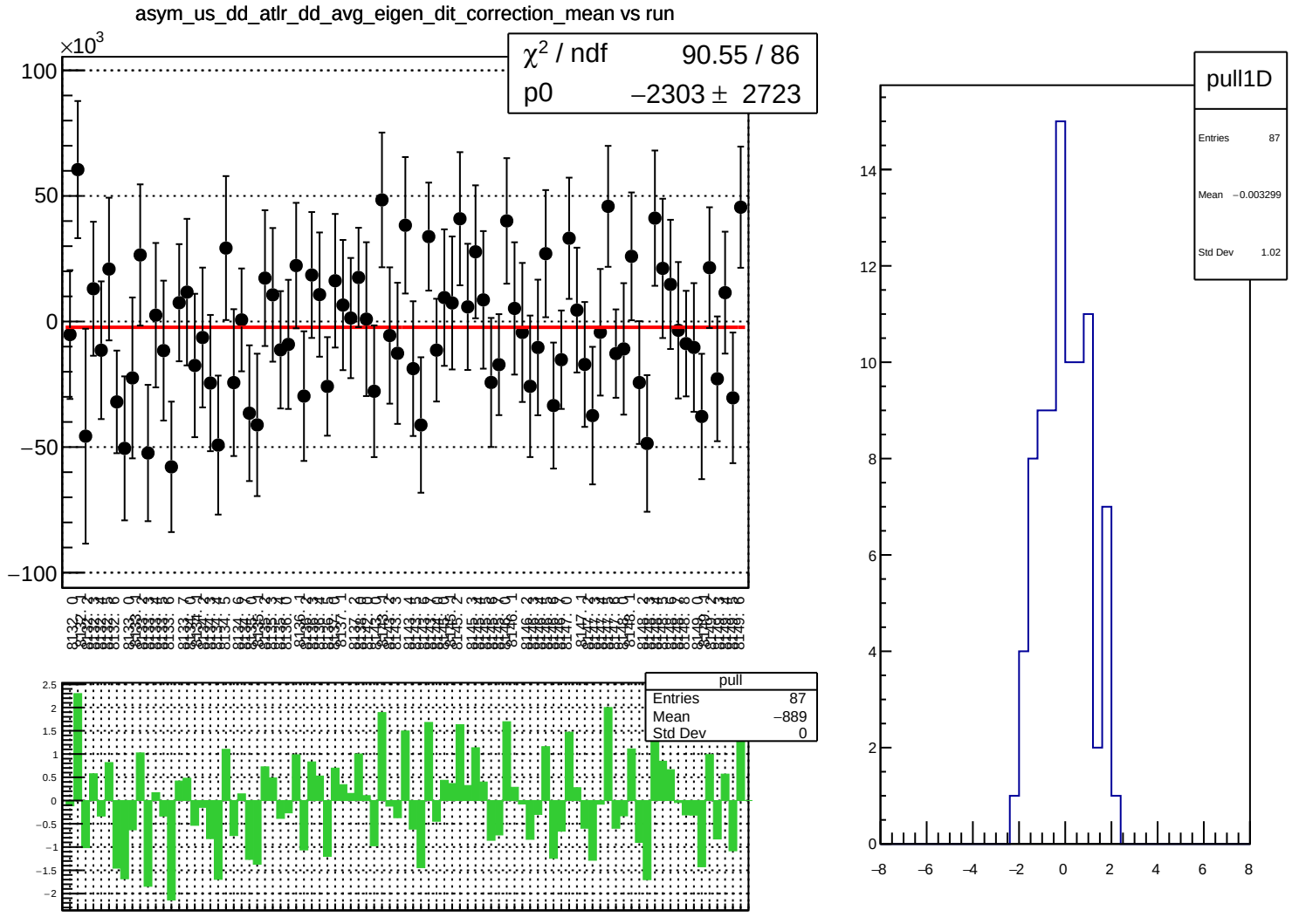

asym_us_dd_atlr_dd_avg_dit_correction_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 90.55 / 86
p0 −2303 ± 2723
pull
Entries 87
Mean −889
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 87
Mean −0.003299
Std Dev 1.02
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

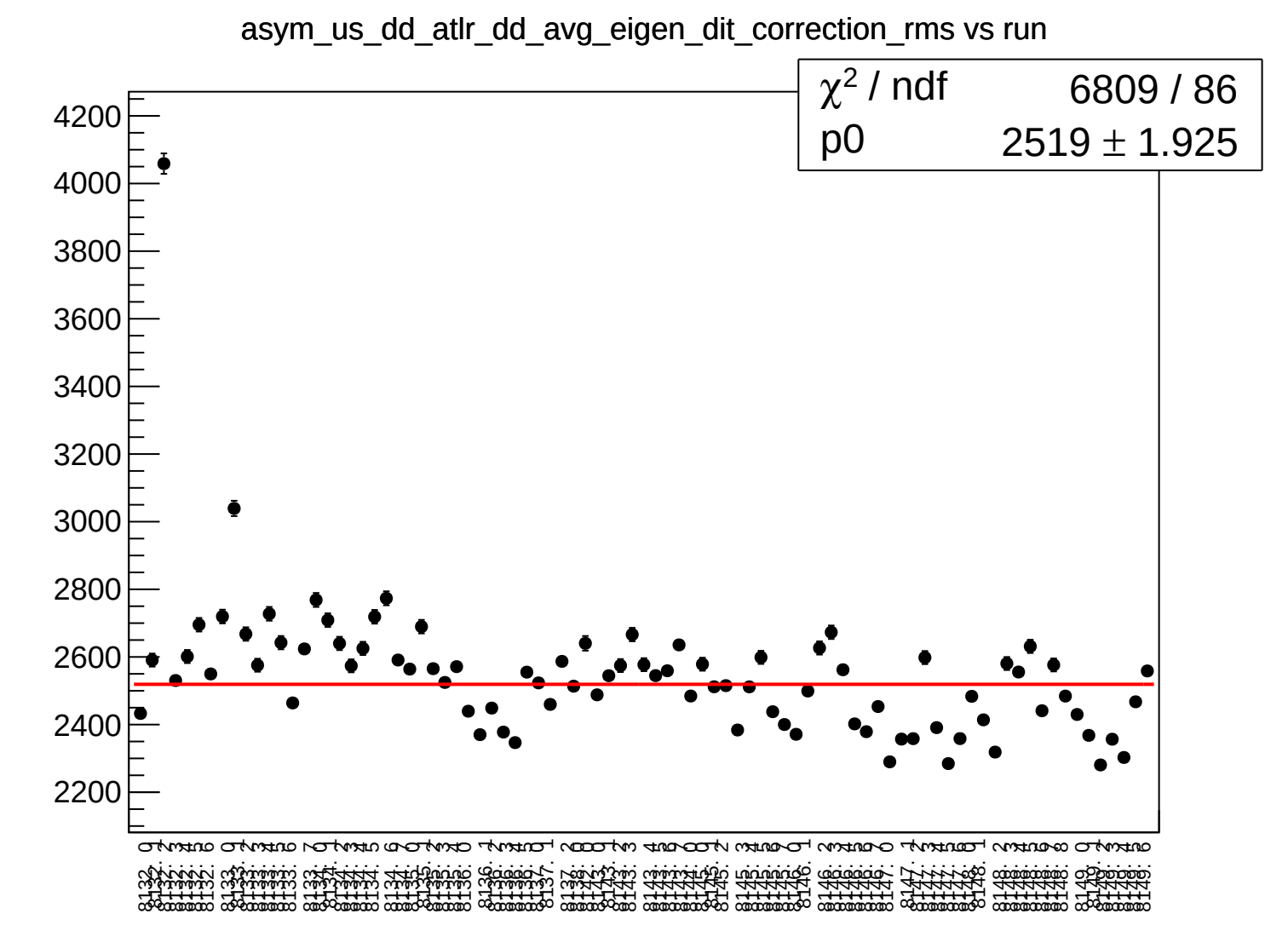

asym_us_dd_atlr_dd_avg_dit_correction_rms vs run
χ^2 / ndf 6809 / 86
p0 2519 ± 1.925
4200
4000
3800
3600
3400
3200
3000
2800
2600
2400
2200

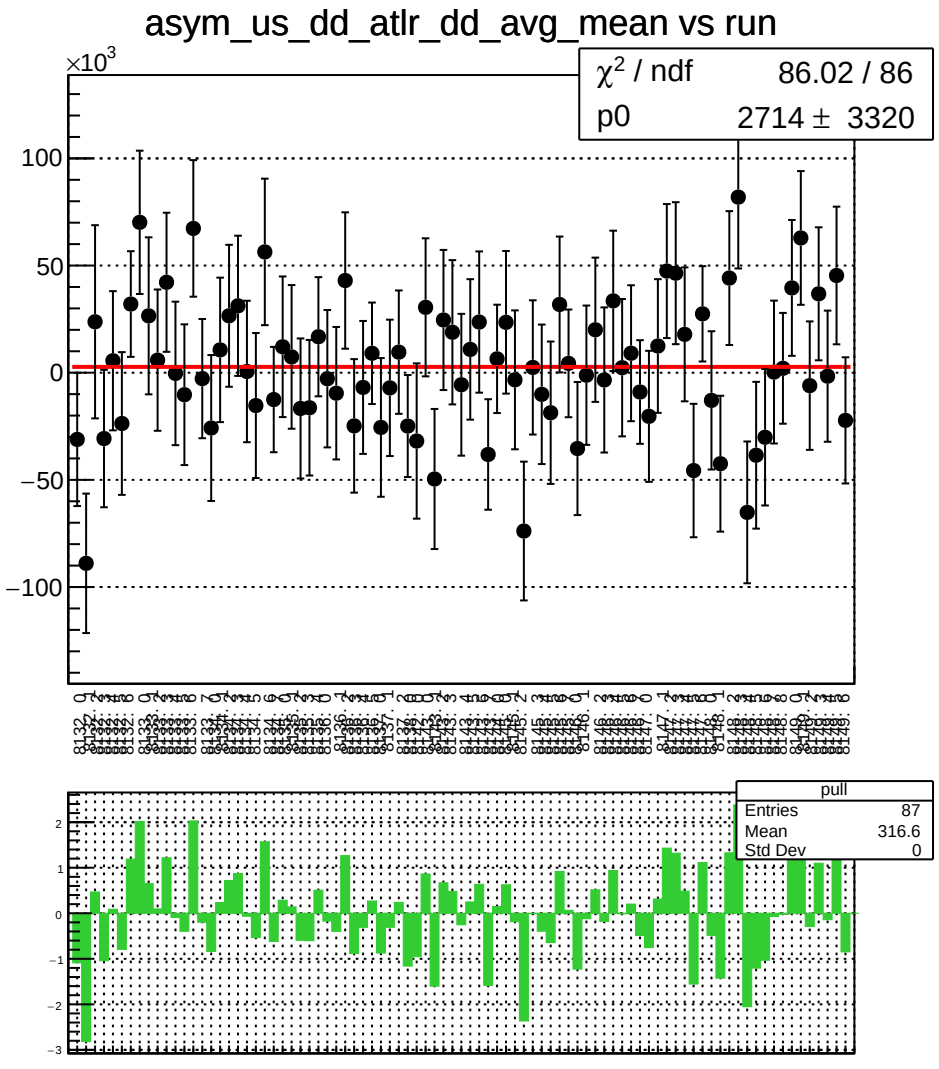

eigen_dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 87.88 / 86
p0 1.895 ± 1928
pull
Entries 87
Mean 586.4
Std Dev 0

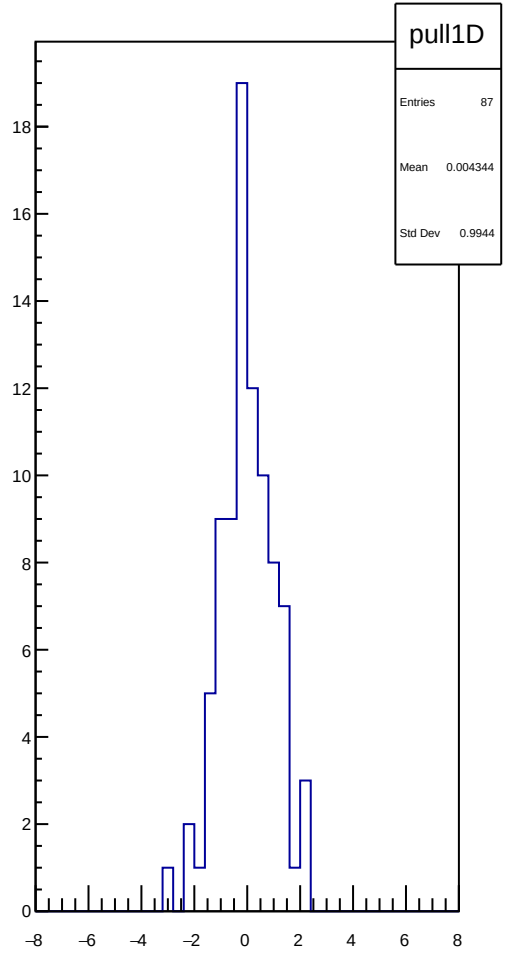

pull1D
Entries 87
Mean 0.01188
Std Dev 1.005

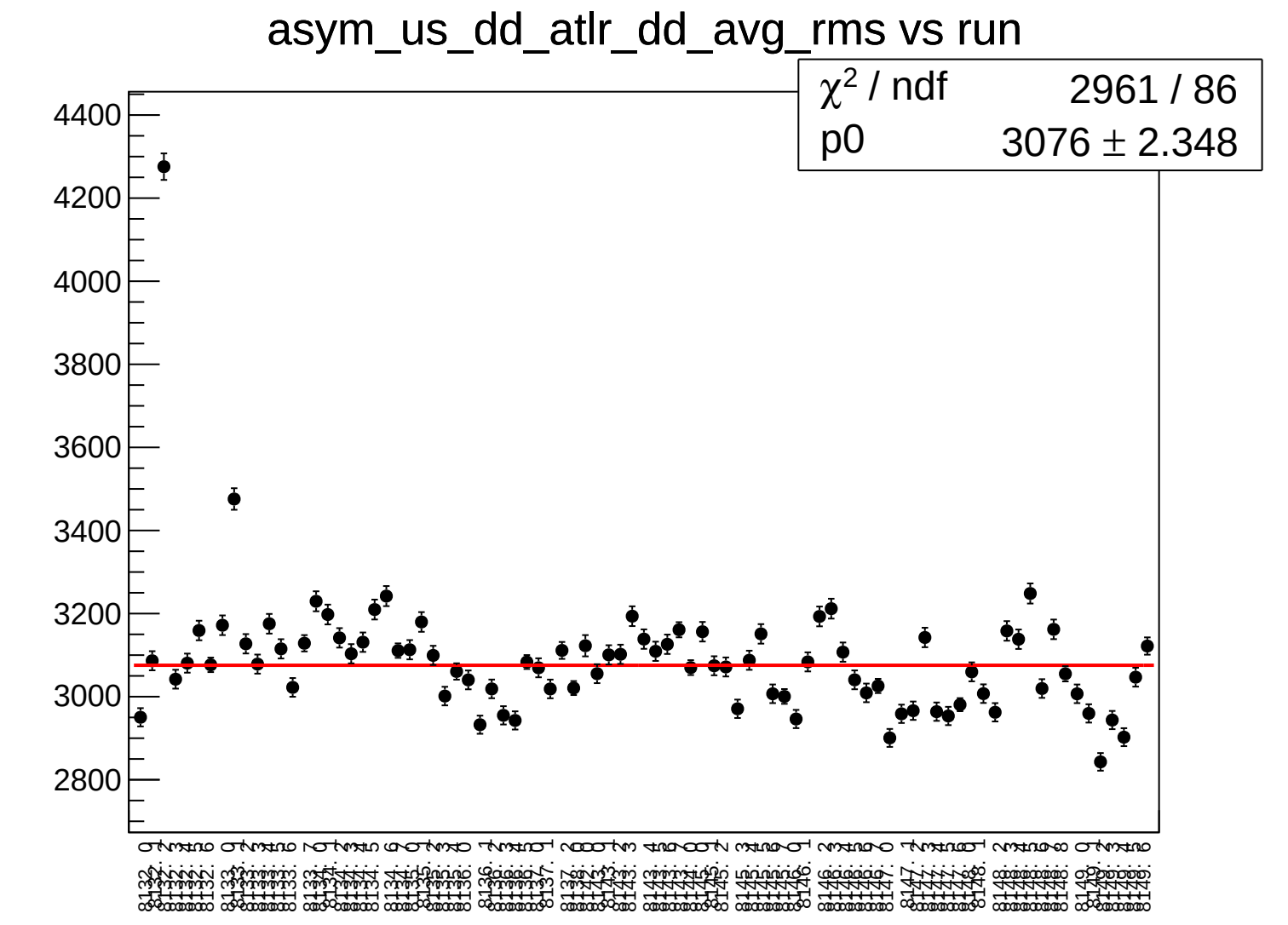

eigen_dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 345.4 / 86
p0 1787 ± 1.363
1900
1850
1800
1750
1700

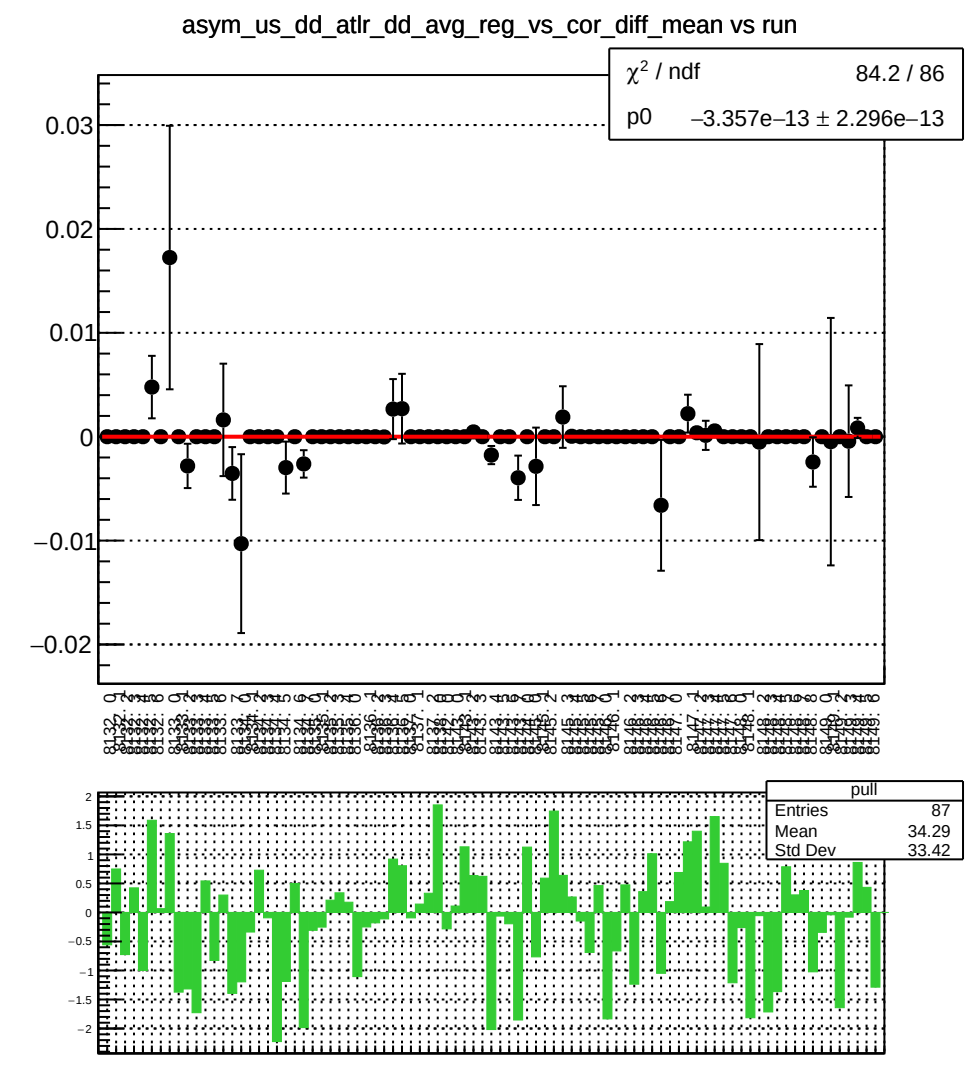

asym_us_dd_atlr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 90.55 / 86
p0 −2303 ± 2723
100
50
0
−50
−100
pull
Entries 87
Mean −889
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 87
Mean −0.003299
Std Dev 1.02
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

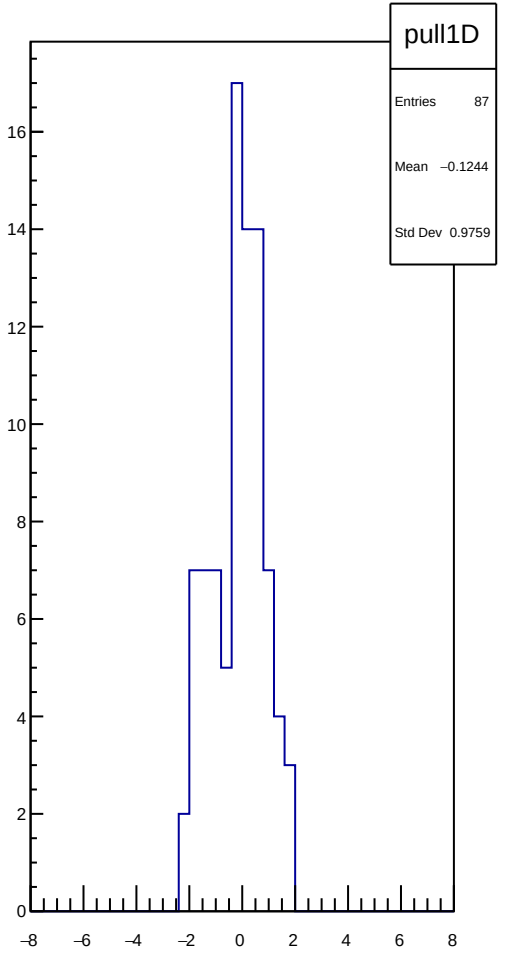

asym_us_dd_atlr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 6809 / 86
p0 2519 ± 1.925
4200
4000
3800
3600
3400
3200
3000
2800
2600
2400
2200

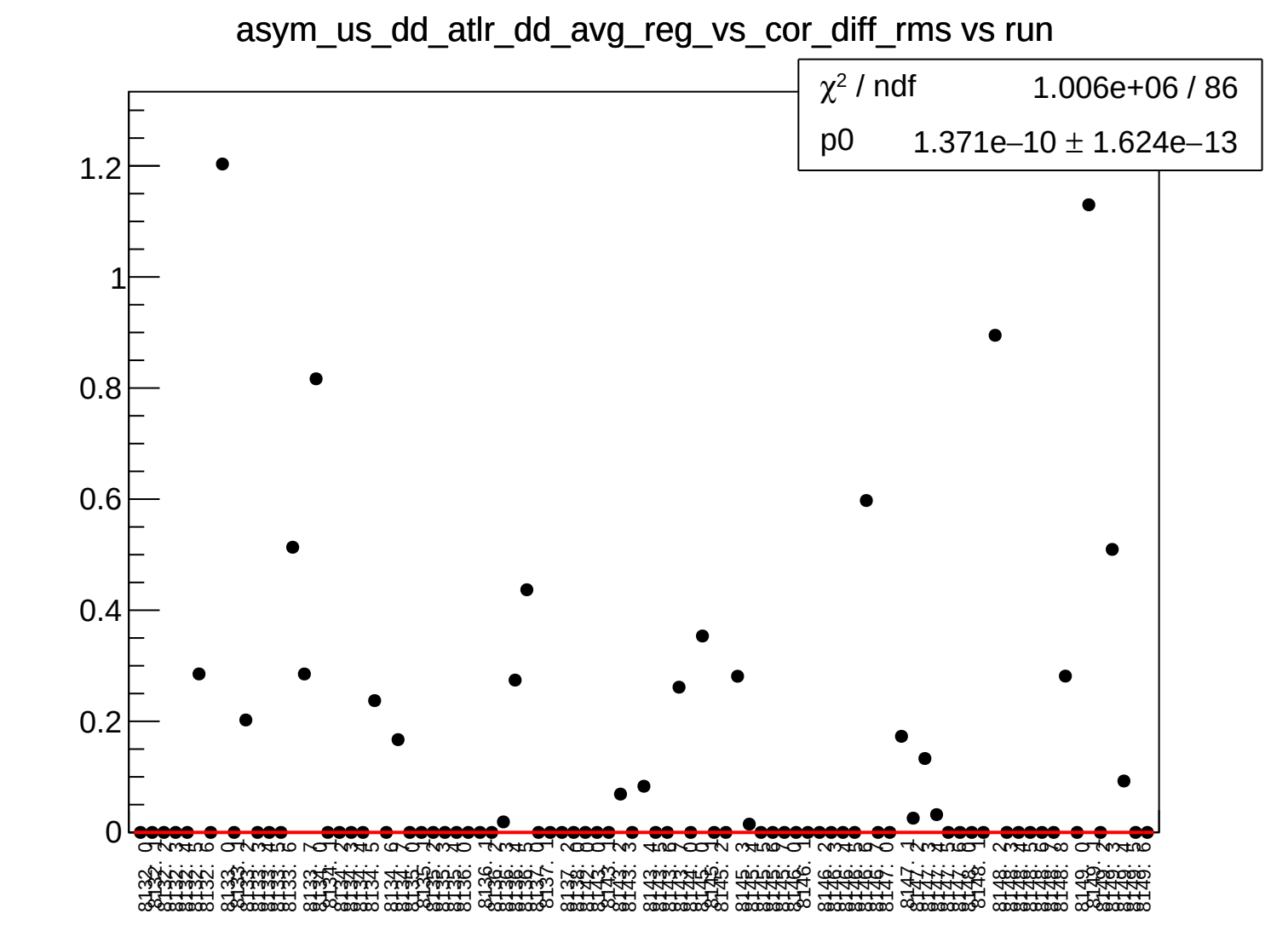

asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 86.02 / 86
p0 2714 ± 3320
×10³
100
50
0
−50
−100
pull
Entries 87
Mean 316.6
Std Dev 0
2
1
0
−1
−2
−3

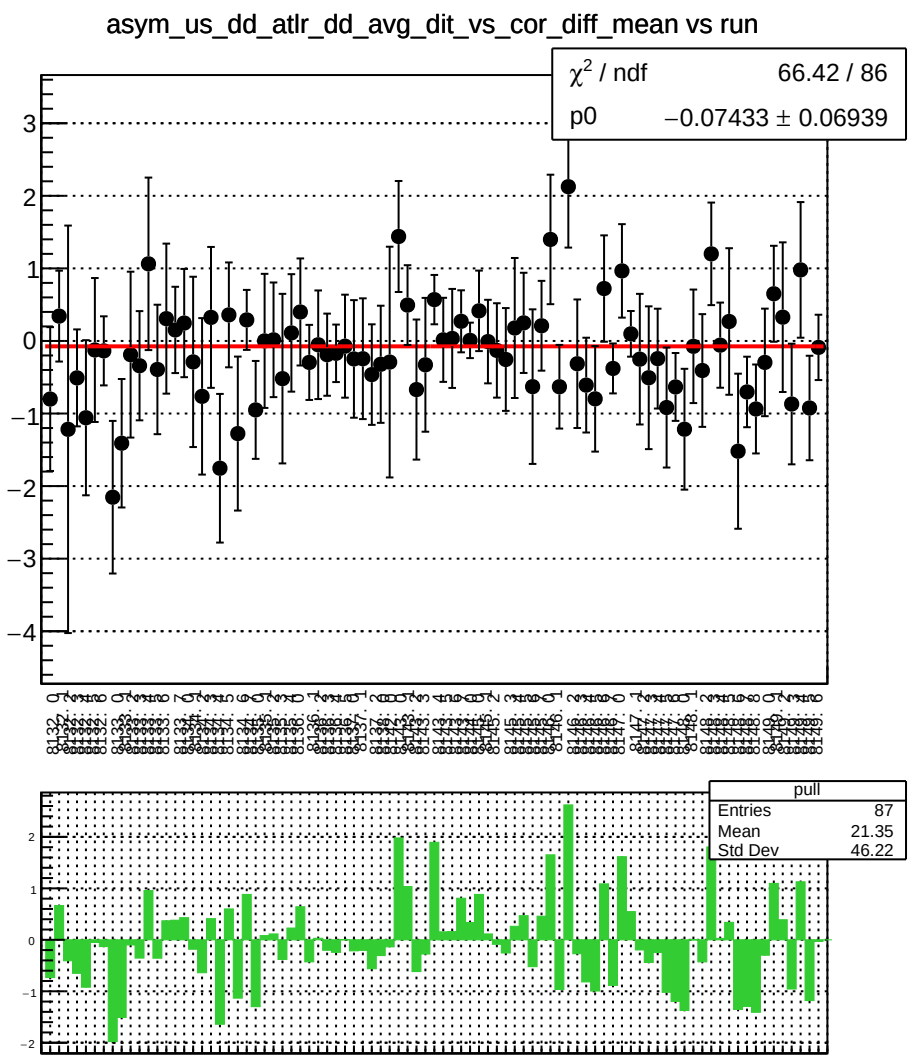

pull1D
Entries 87
Mean 0.004344
Std Dev 0.9944
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

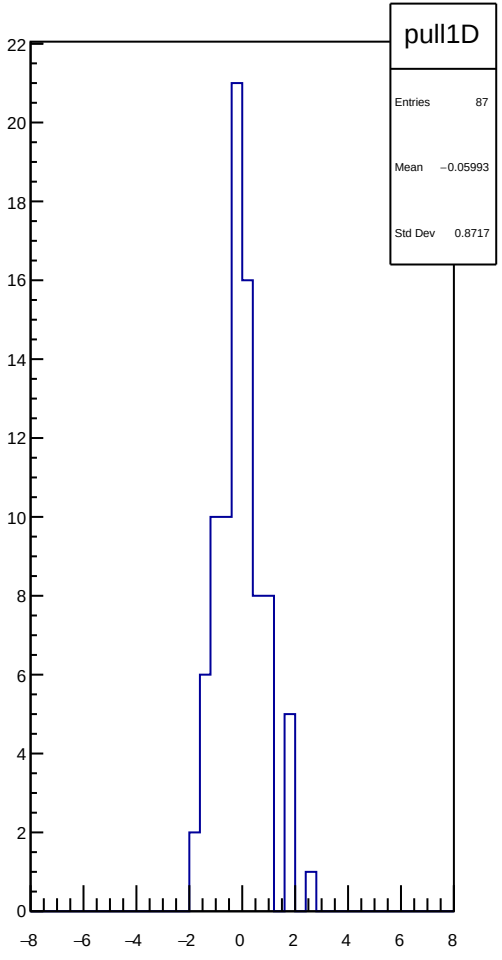

asym_us_dd_atlr_dd_avg_rms vs run
χ^2 / ndf 2961 / 86
p0 3076 ± 2.348
4400
4200
4000
3800
3600
3400
3200
3000
2800

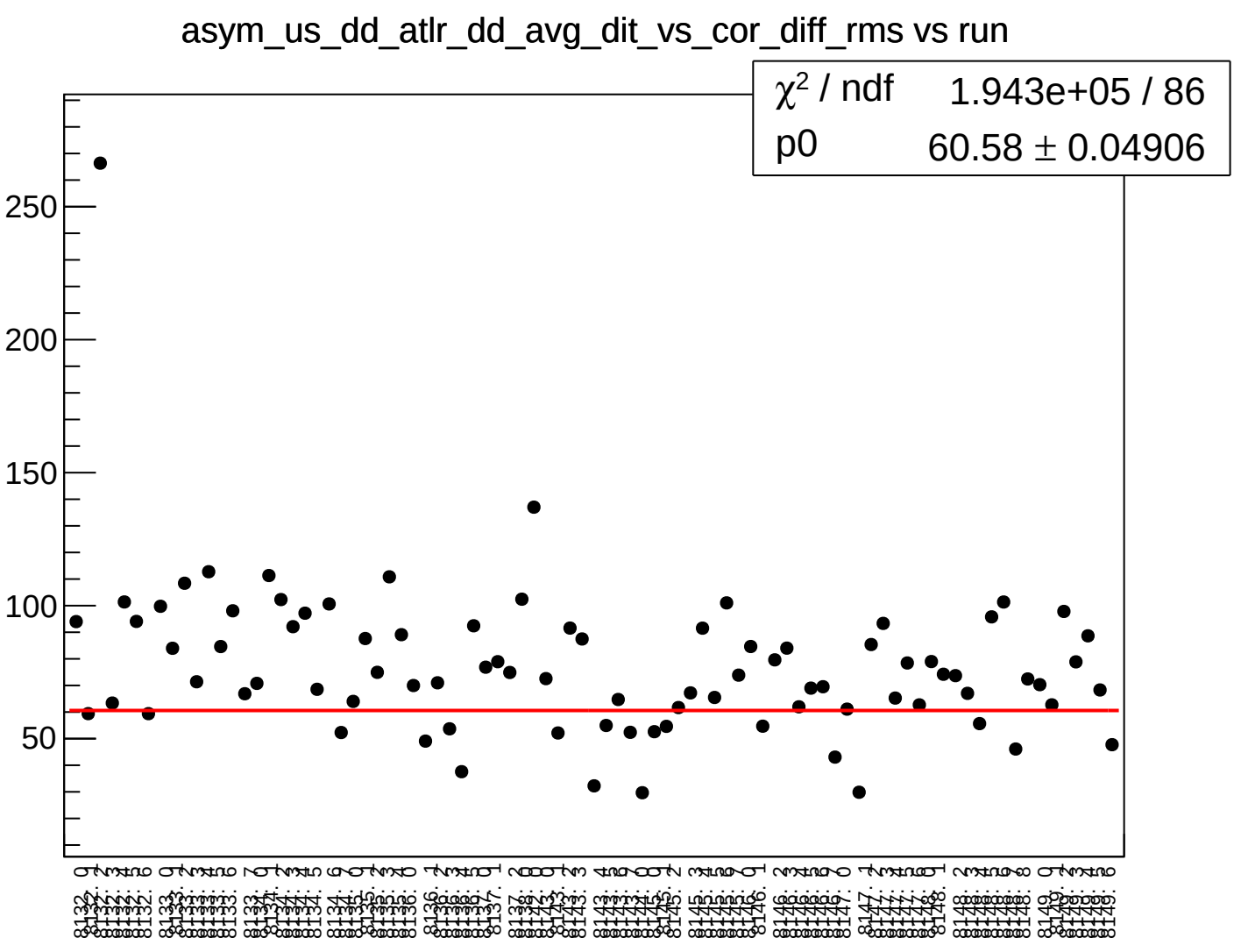

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 84.2 / 86
p0 −3.357e−13 ± 2.296e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 87
Mean 34.29
Std Dev 33.42
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

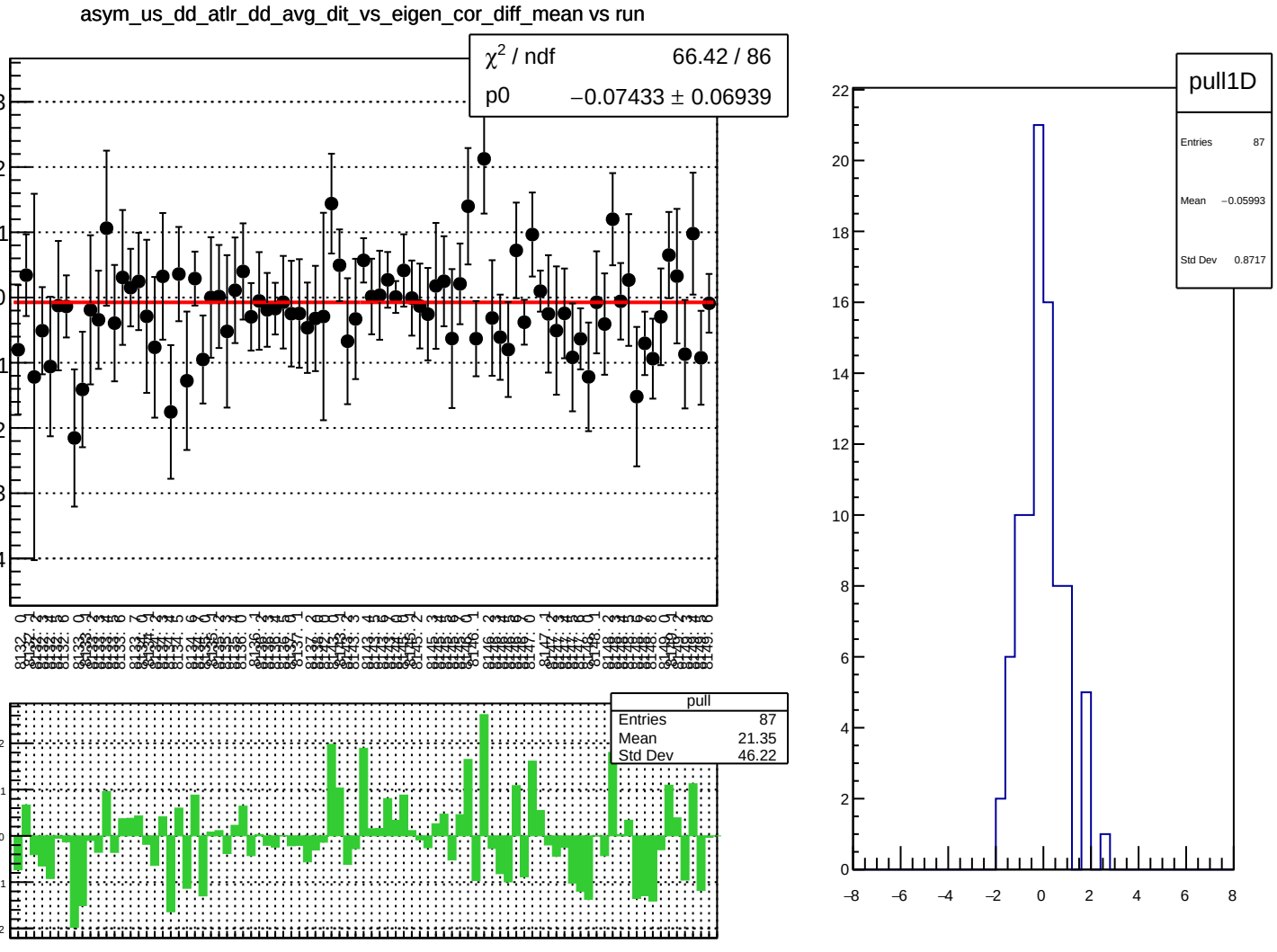

pull1D
Entries 87
Mean −0.1244
Std Dev 0.9759
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

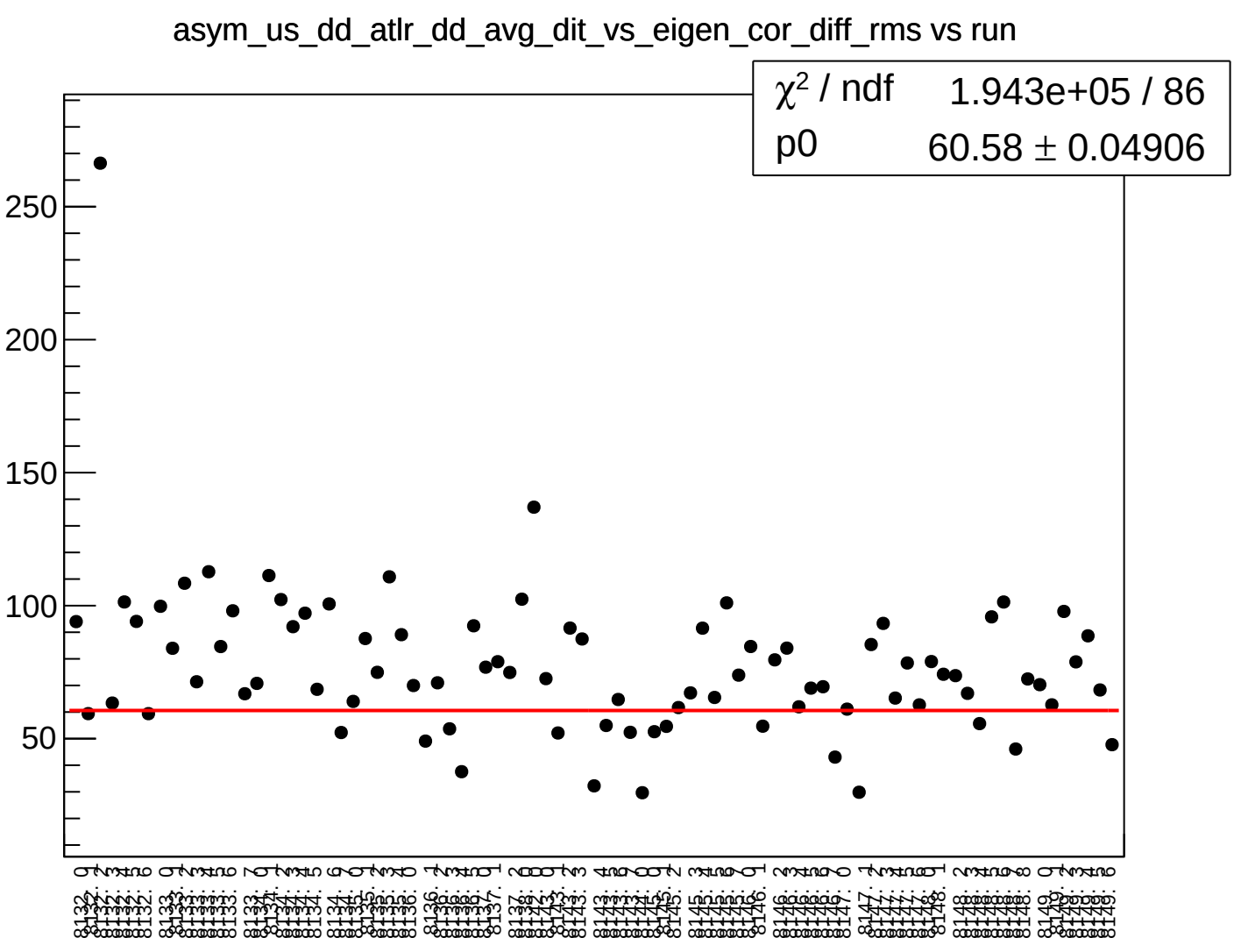

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.006e+06 / 86
p0 1.371e−10 ± 1.624e−13
1.2
1
0.8
0.6
0.4
0.2
0

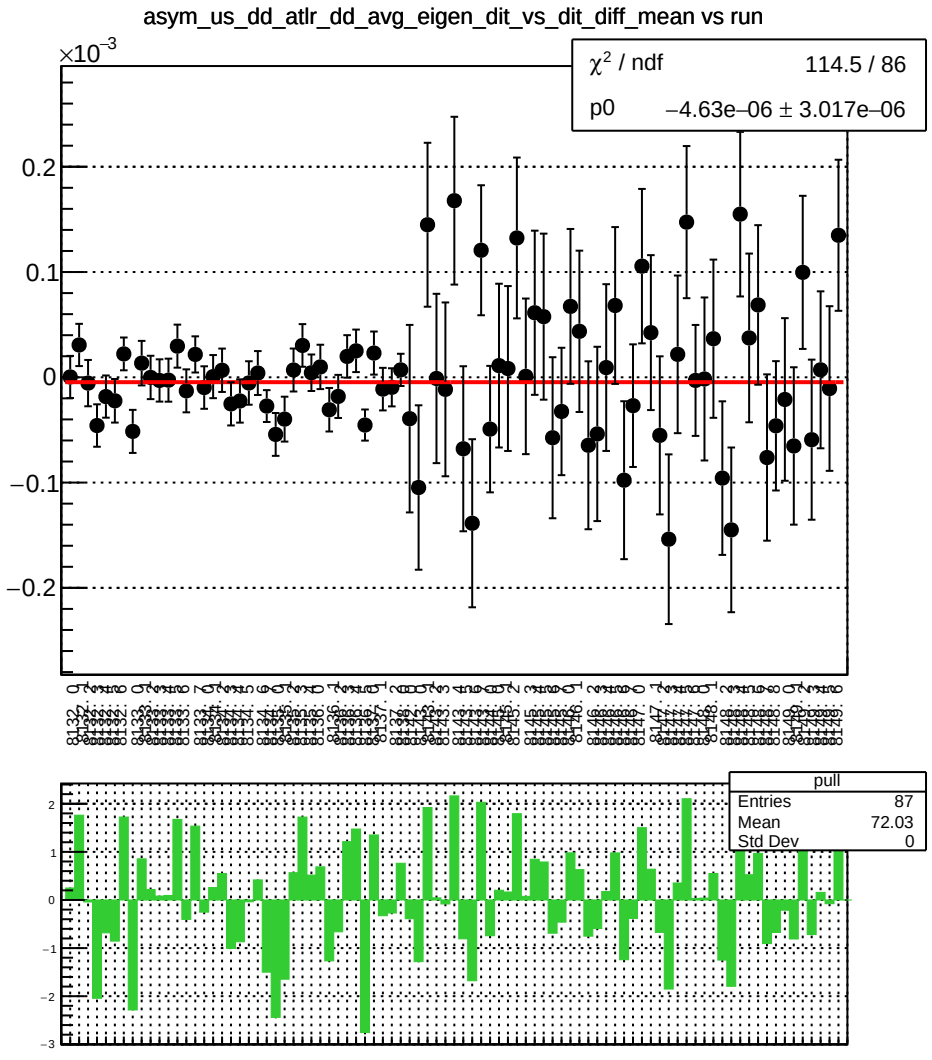

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 66.42 / 86
p0 −0.07433 ± 0.06939
pull
Entries 87
Mean 21.35
Std Dev 46.22

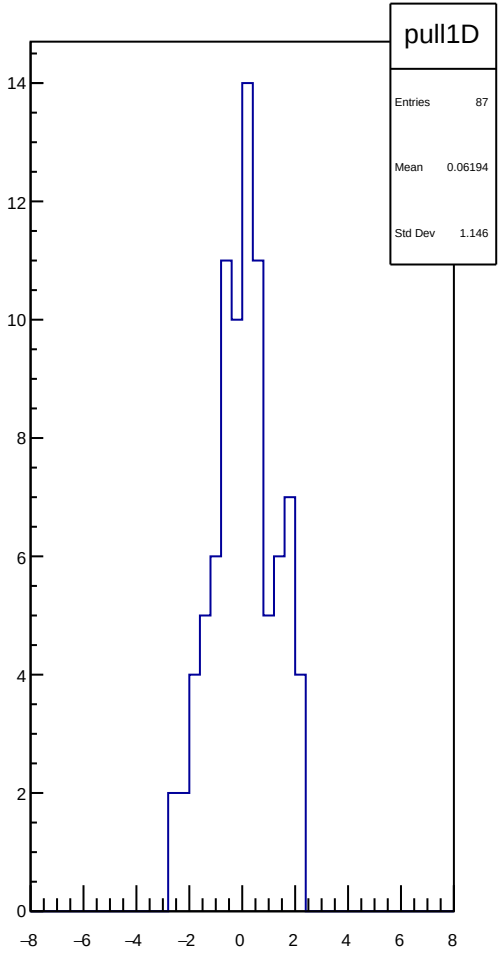

pull1D
Entries 87
Mean −0.05993
Std Dev 0.8717

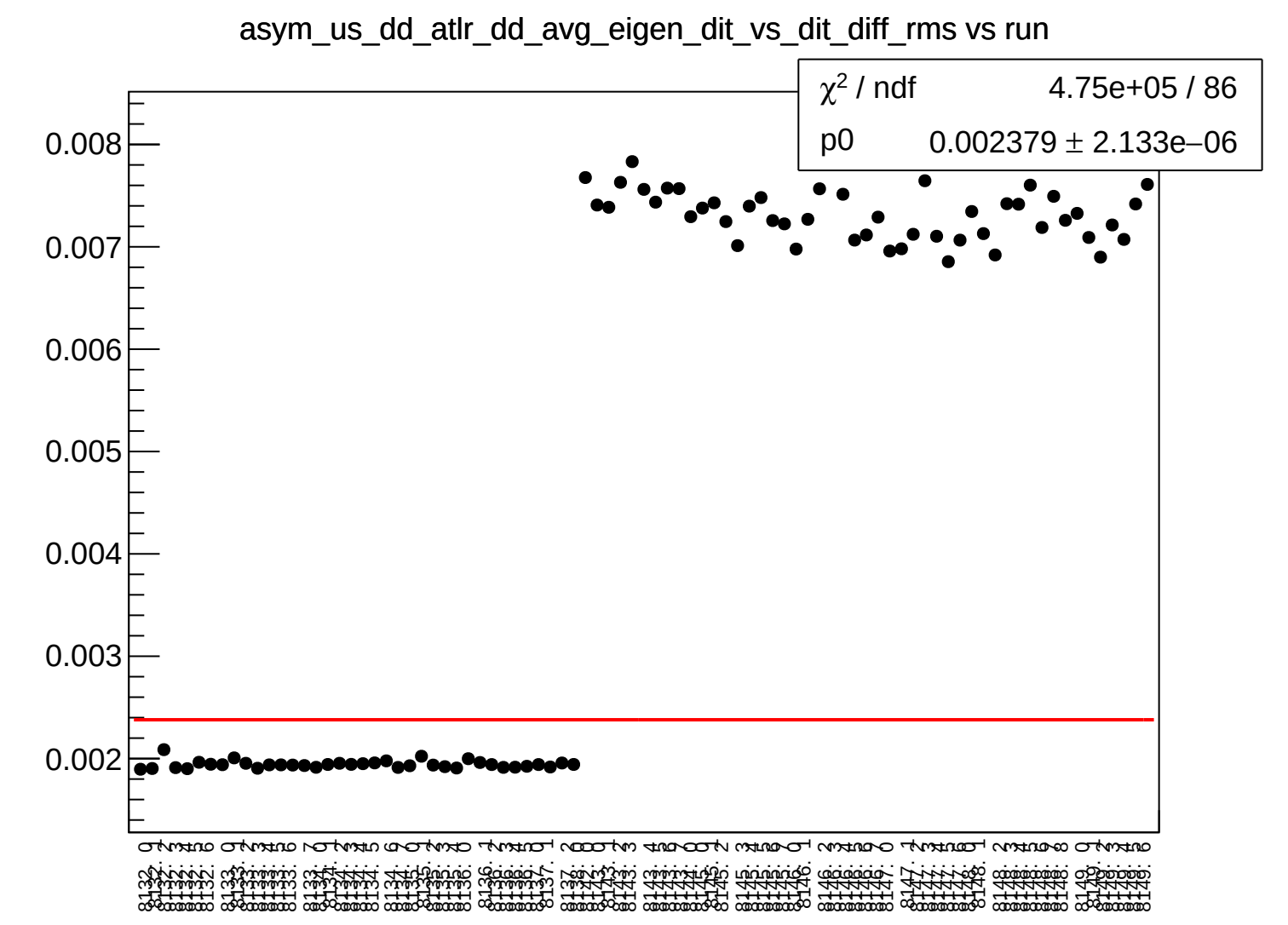

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.943e+05 / 86
p0 60.58 ± 0.04906
250
200
150
100
50

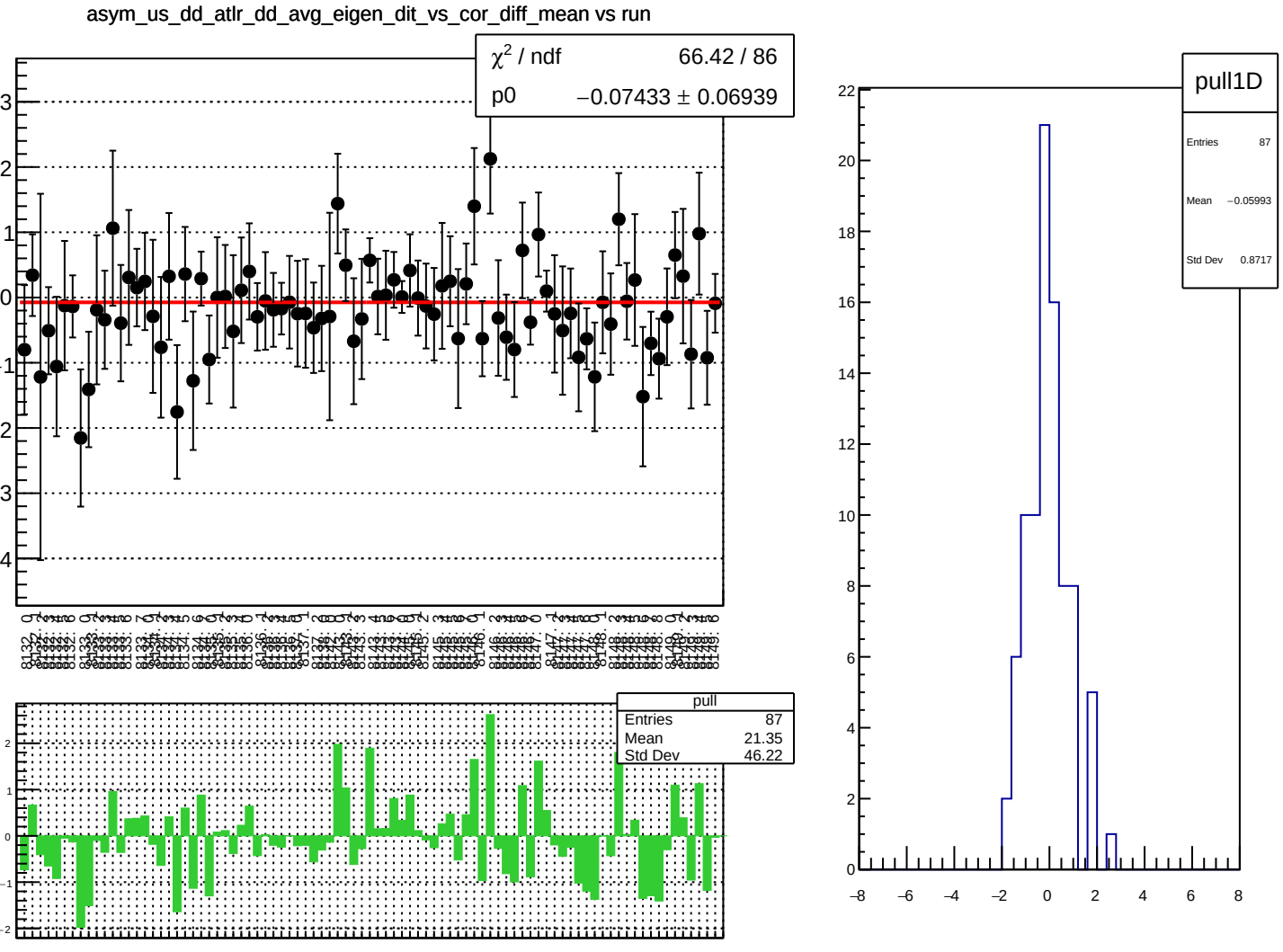

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.42 / 86
p0 −0.07433 ± 0.06939
pull
Entries 87
Mean 21.35
Std Dev 46.22
pull1D
Entries 87
Mean −0.05993
Std Dev 0.8717

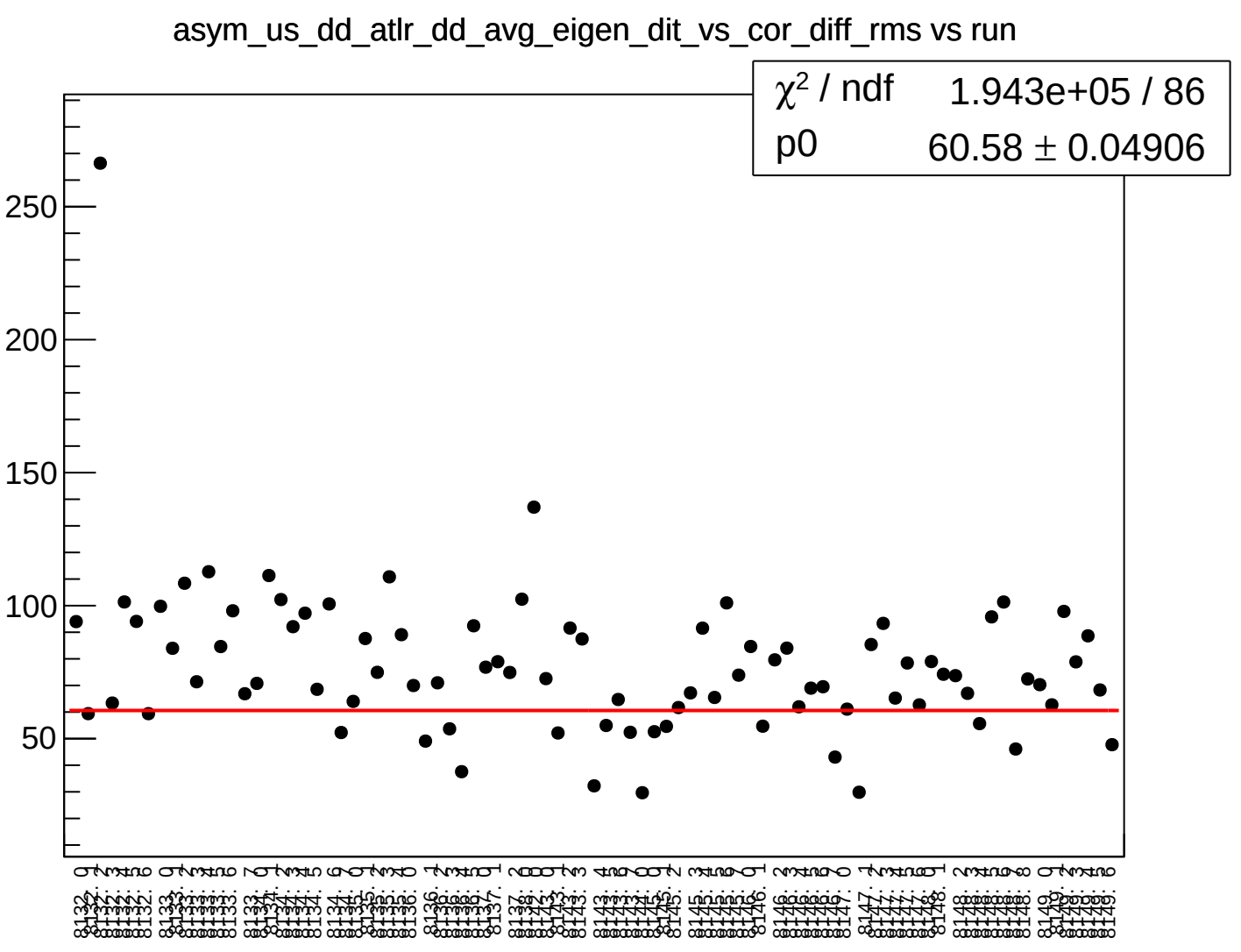

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.943e+05 / 86
p0 60.58 ± 0.04906
250
200
150
100
50

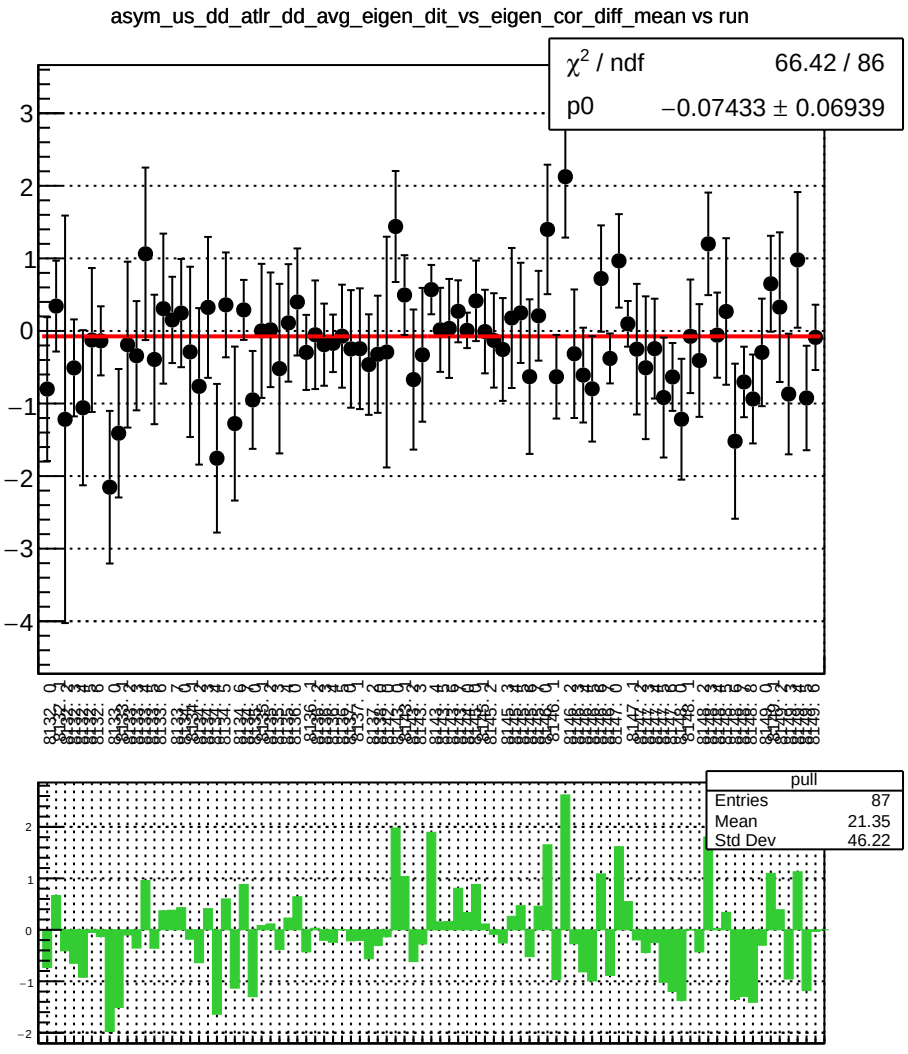

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 114.5 / 86
p0 −4.63e−06 ± 3.017e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 87
Mean 72.03
Std Dev 0
2
1
0
−1
−2
−3

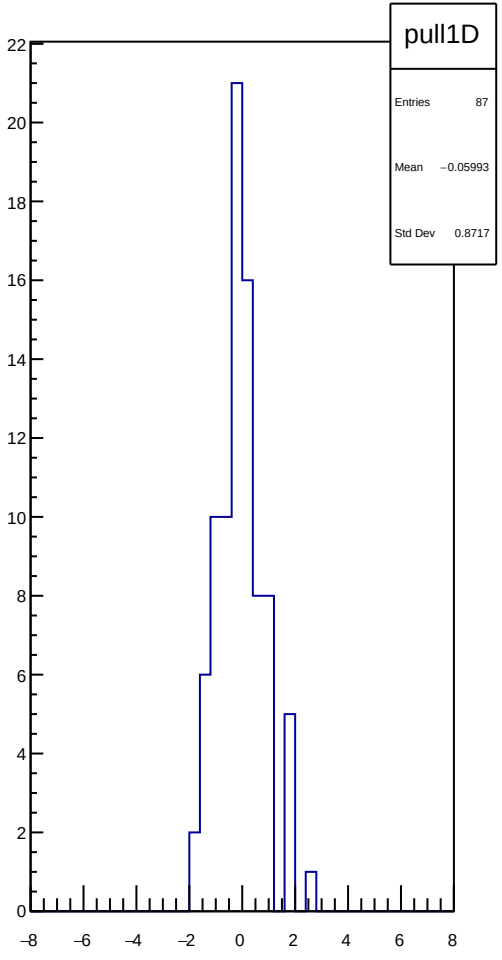

pull1D
Entries 87
Mean 0.06194
Std Dev 1.146
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

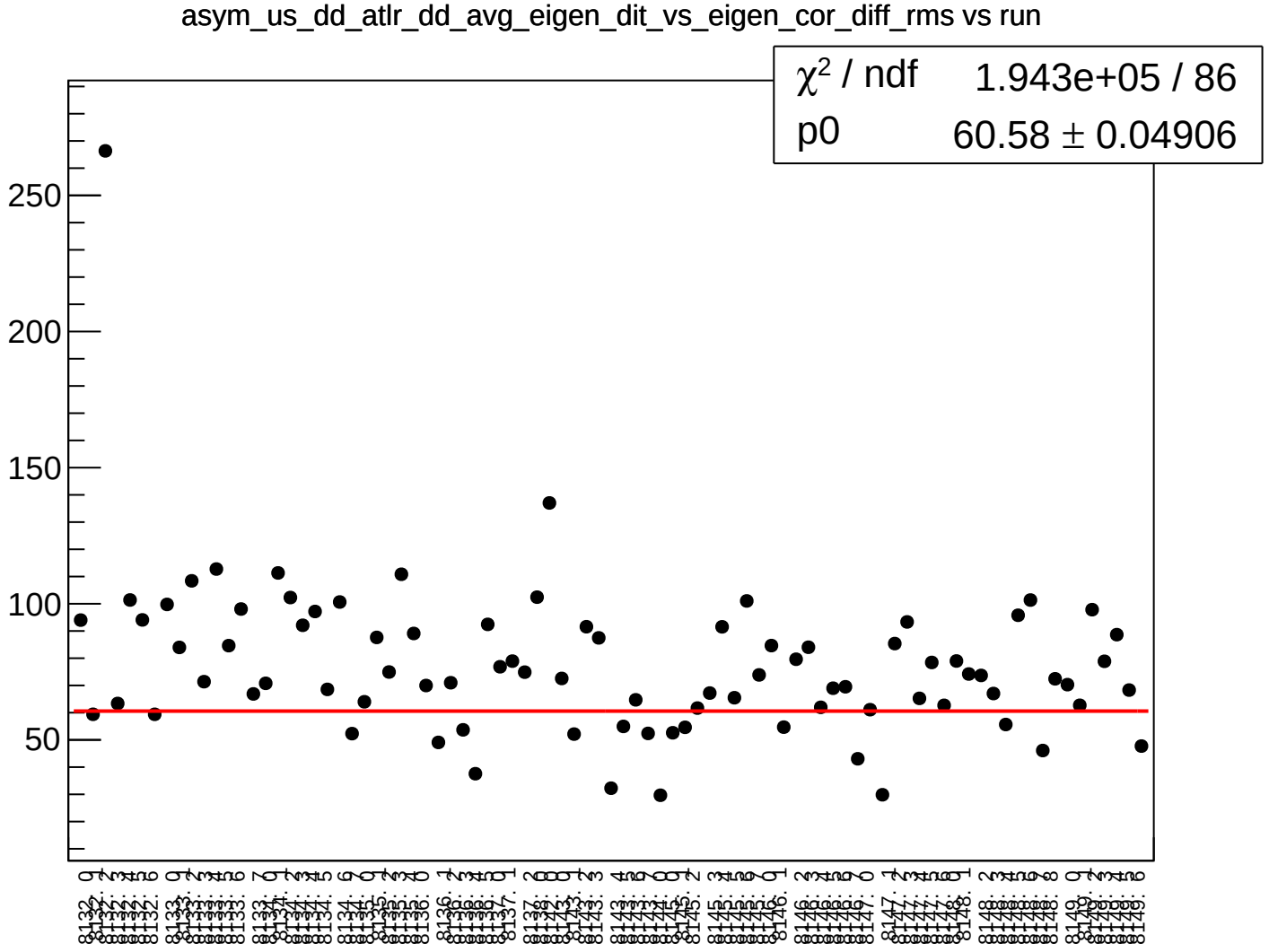

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.75e+05 / 86
p0 0.002379 ± 2.133e−06
0.008
0.007
0.006
0.005
0.004
0.003
0.002

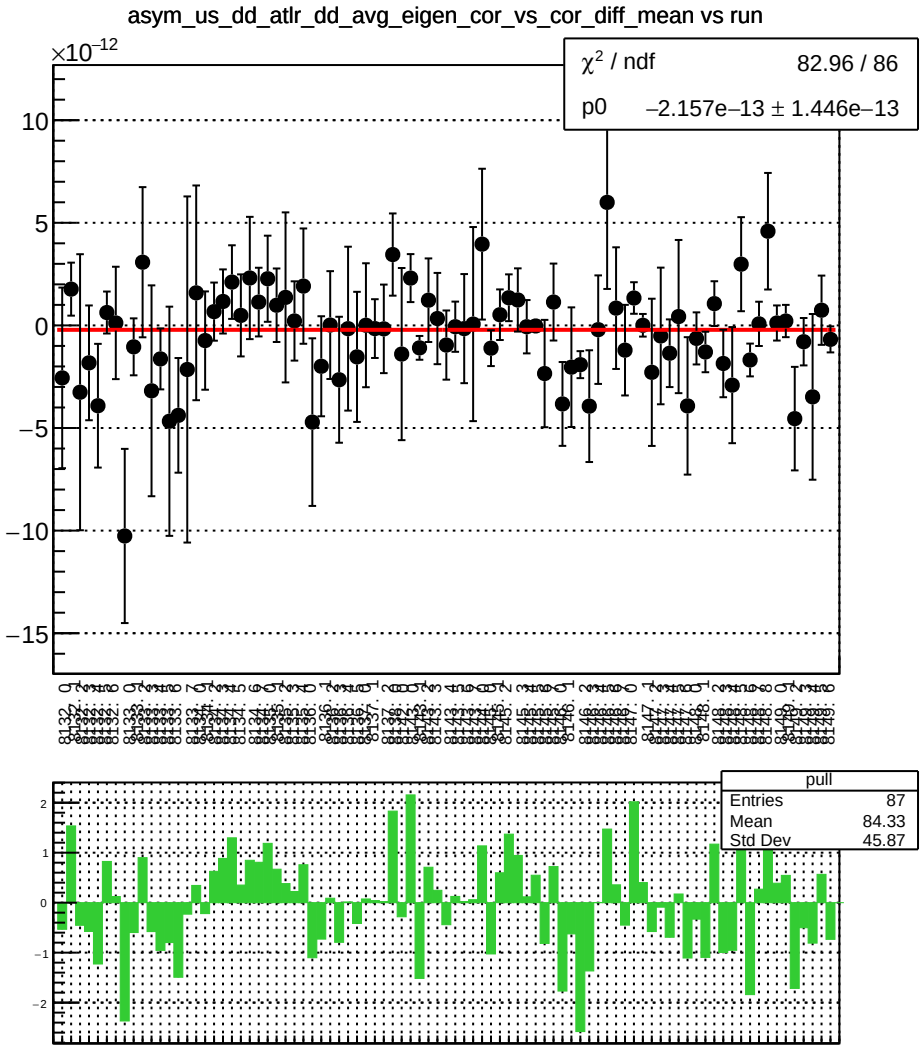

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 66.42 / 86
p0 −0.07433 ± 0.06939
pull
Entries 87
Mean 21.35
Std Dev 46.22
pull1D
Entries 87
Mean −0.05993
Std Dev 0.8717

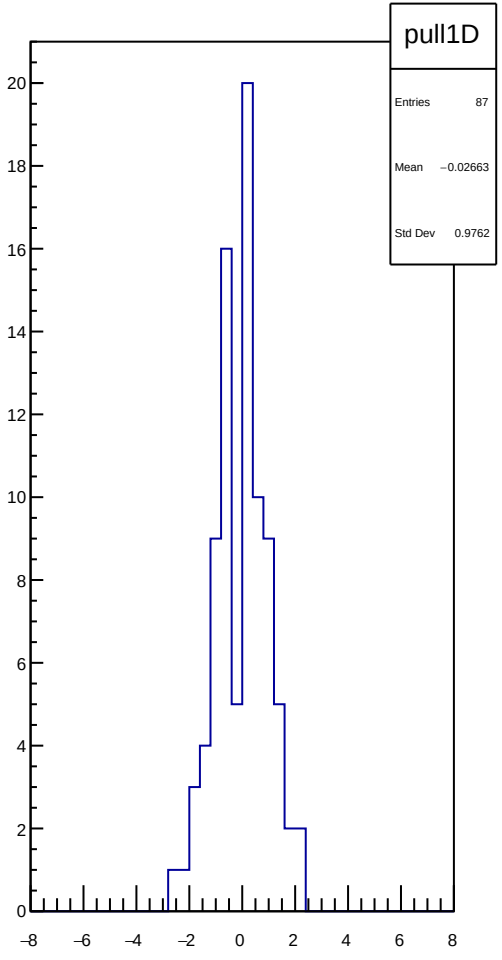

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.943e+05 / 86
p0 60.58 ± 0.04906
250
200
150
100
50

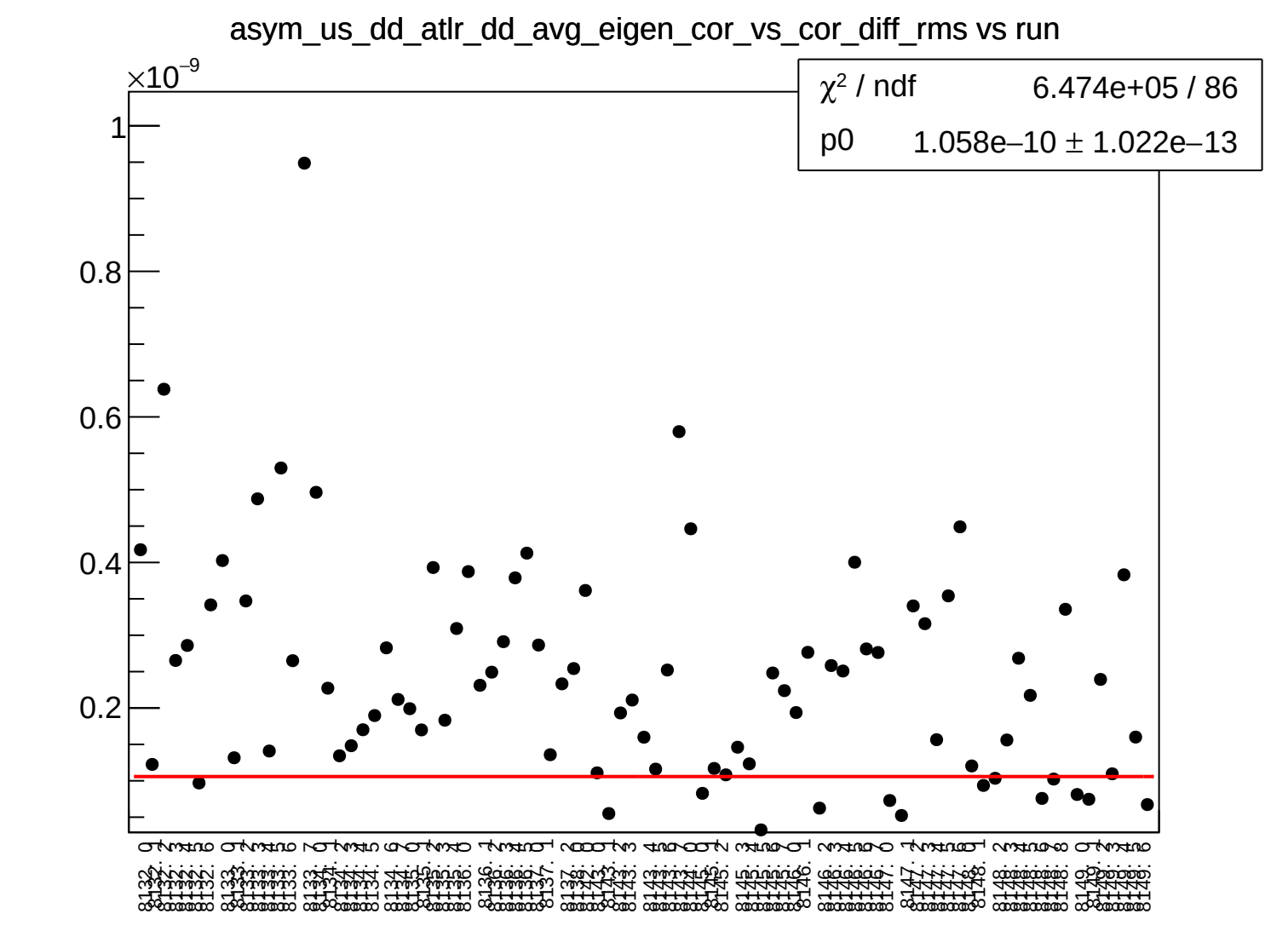

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.42 / 86
p0 −0.07433 ± 0.06939
pull
Entries 87
Mean 21.35
Std Dev 46.22

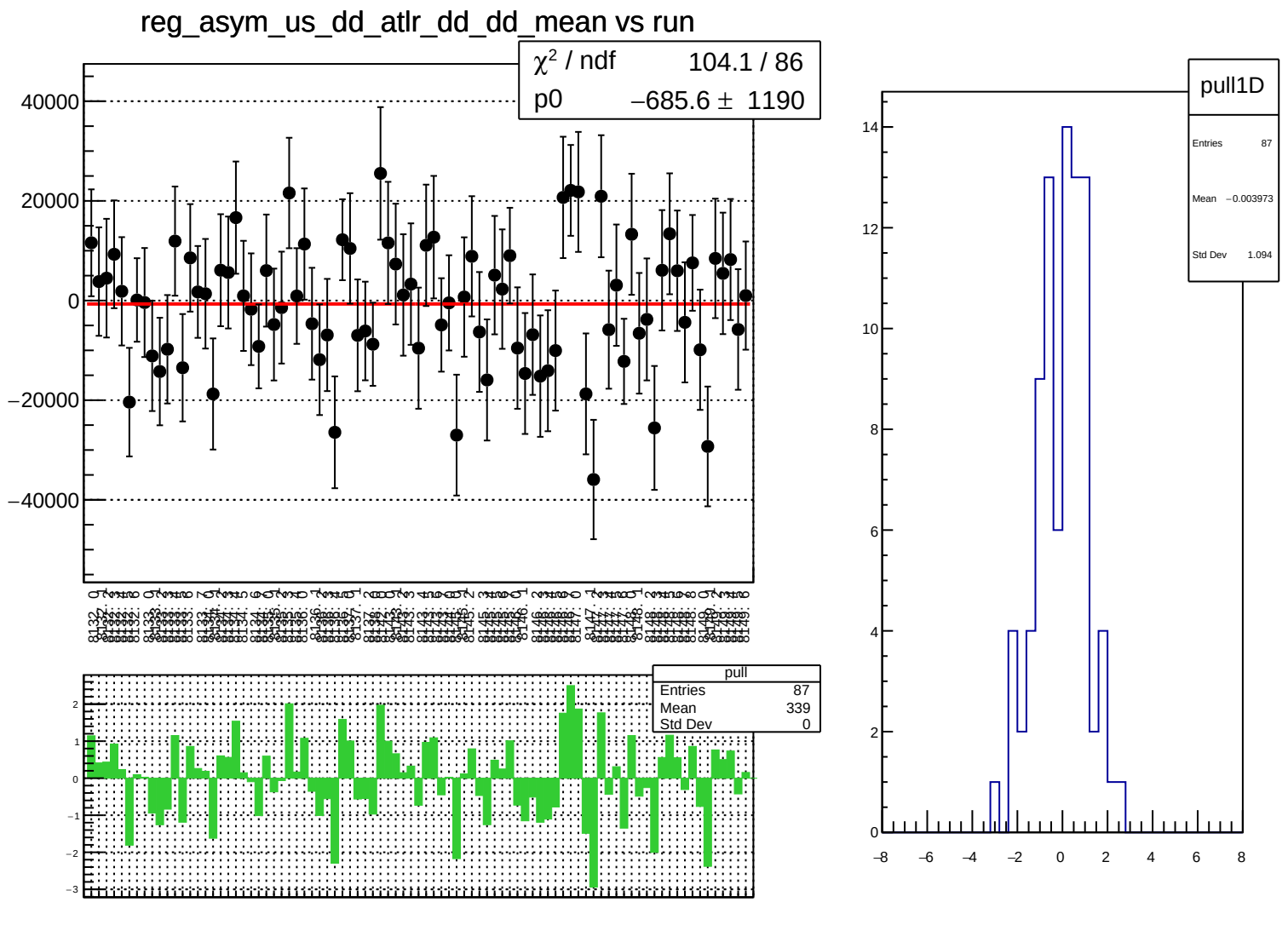

pull1D
Entries 87
Mean −0.05993
Std Dev 0.8717

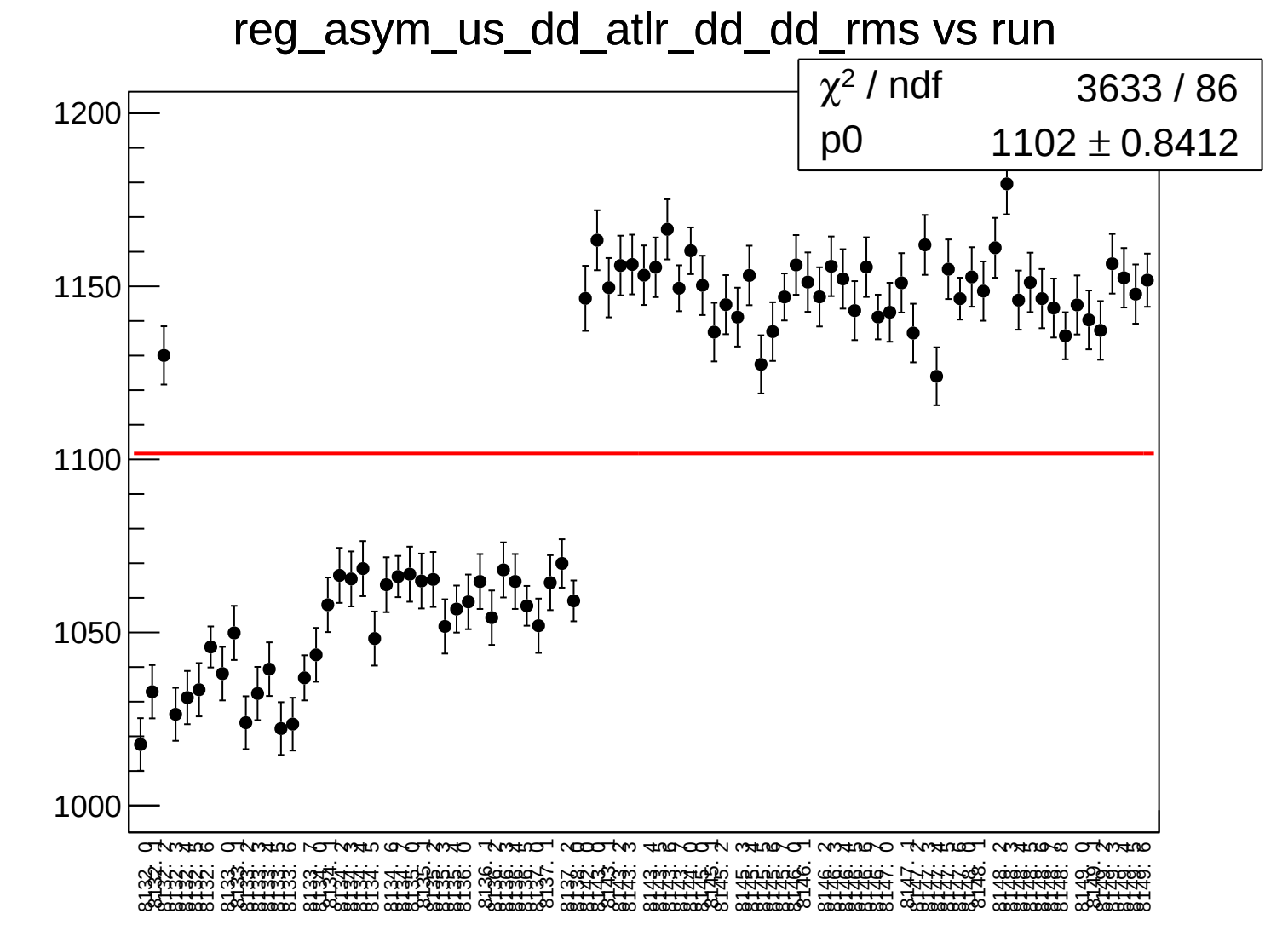

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.943e+05 / 86
p0 60.58 ± 0.04906
250
200
150
100
50

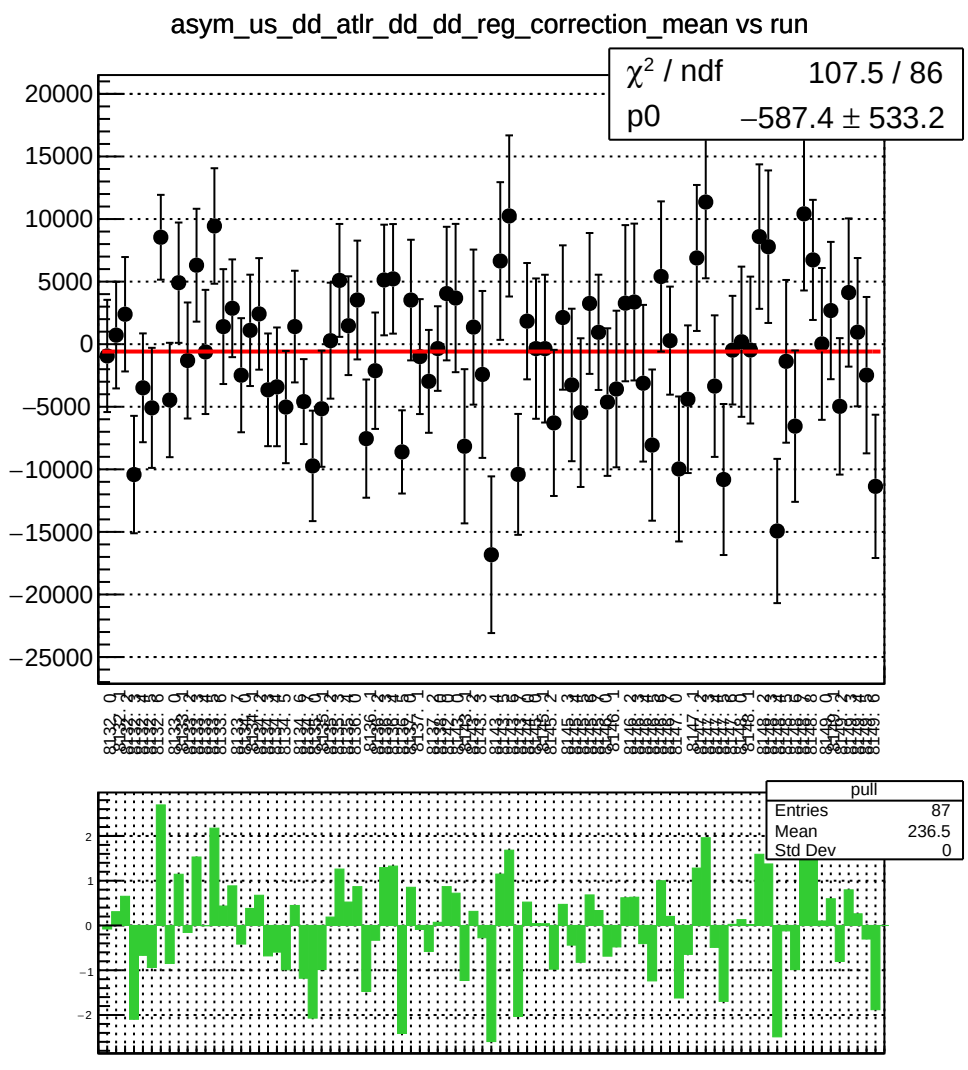

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.96 / 86
p0 −2.157e−13 ± 1.446e−13
pull
Entries 87
Mean 84.33
Std Dev 45.87

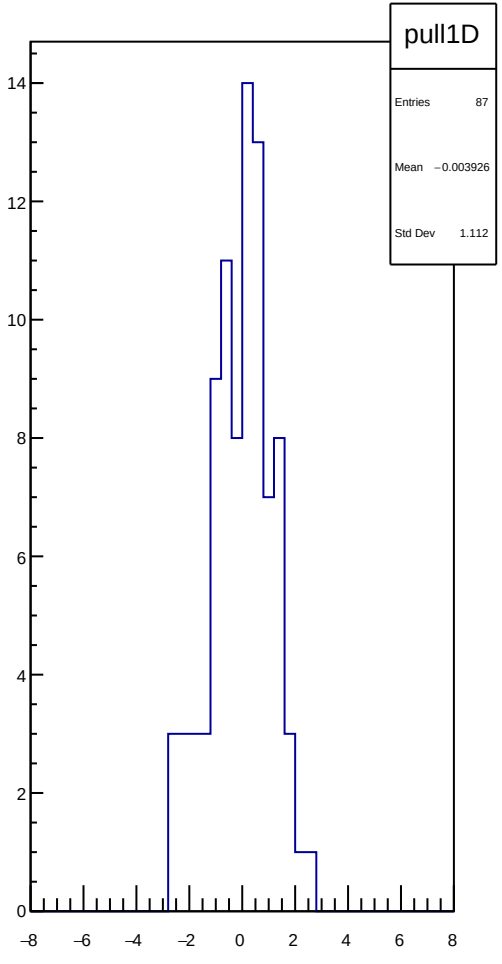

pull1D
Entries 87
Mean −0.02663
Std Dev 0.9762

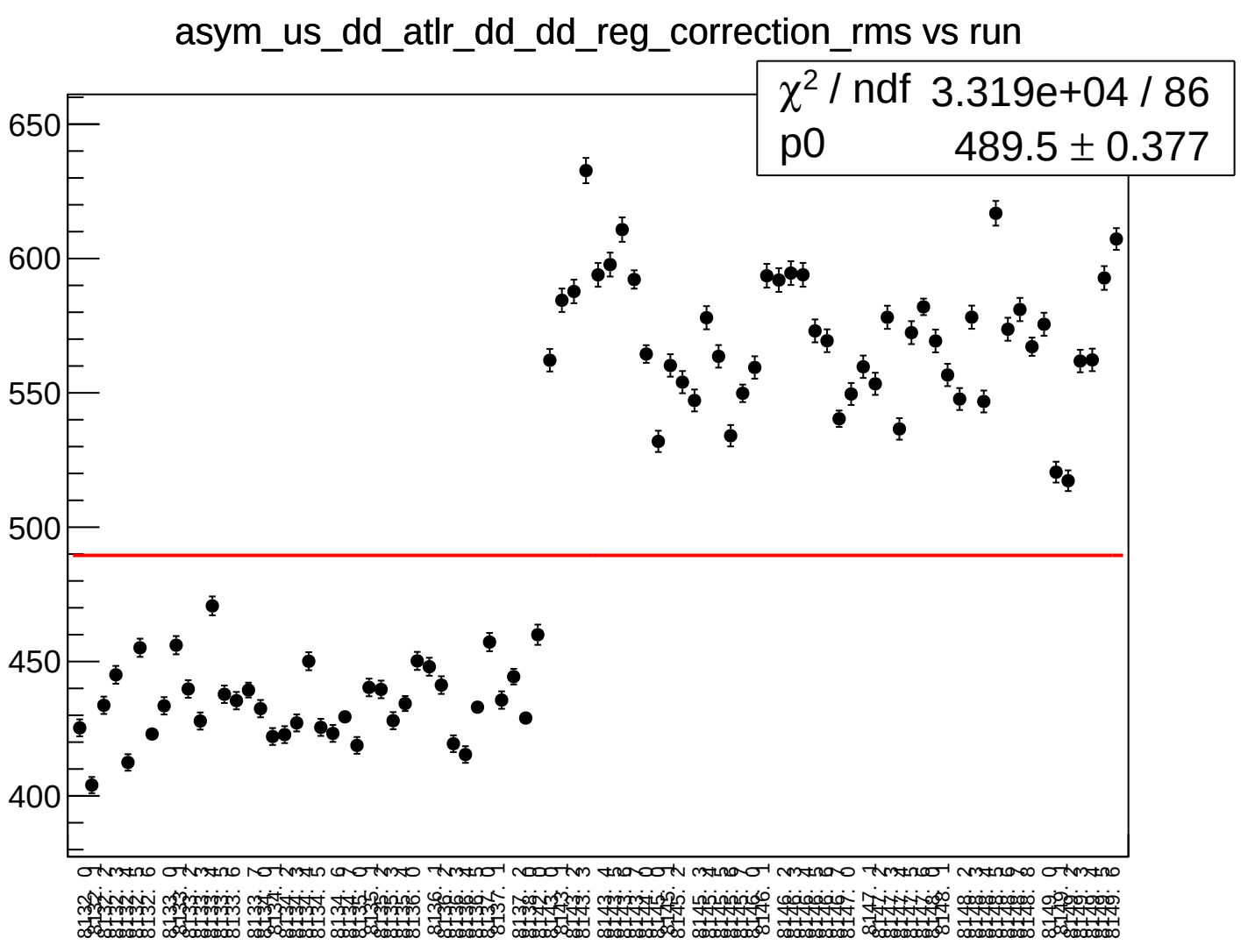

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.474e+05 / 86
p0 1.058e−10 ± 1.022e−13
1
0.8
0.6
0.4
0.2

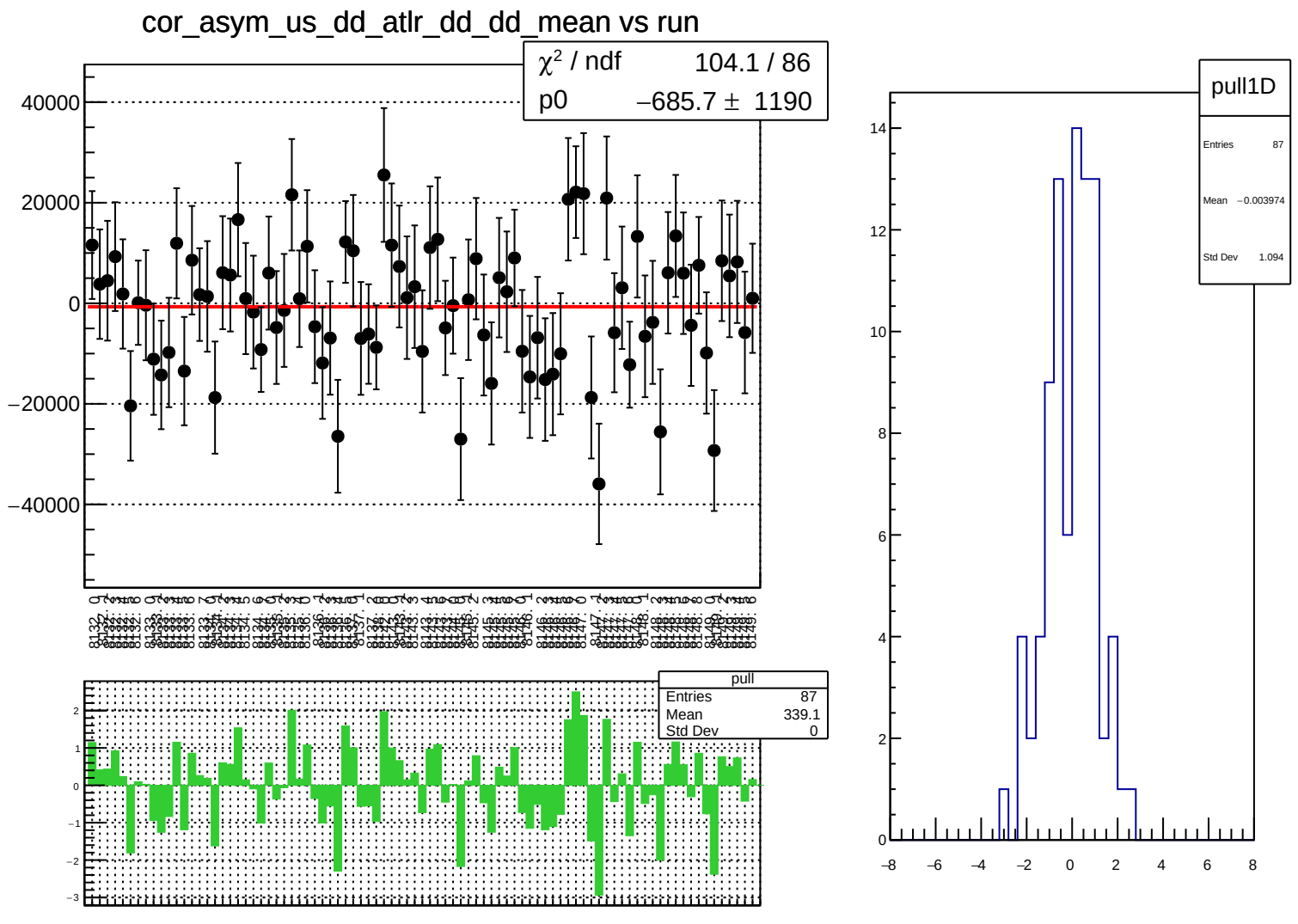

reg_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 104.1 / 86
p0 −685.6 ± 1190
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 339
Std Dev 0
pull1D
Entries 87
Mean −0.003973
Std Dev 1.094

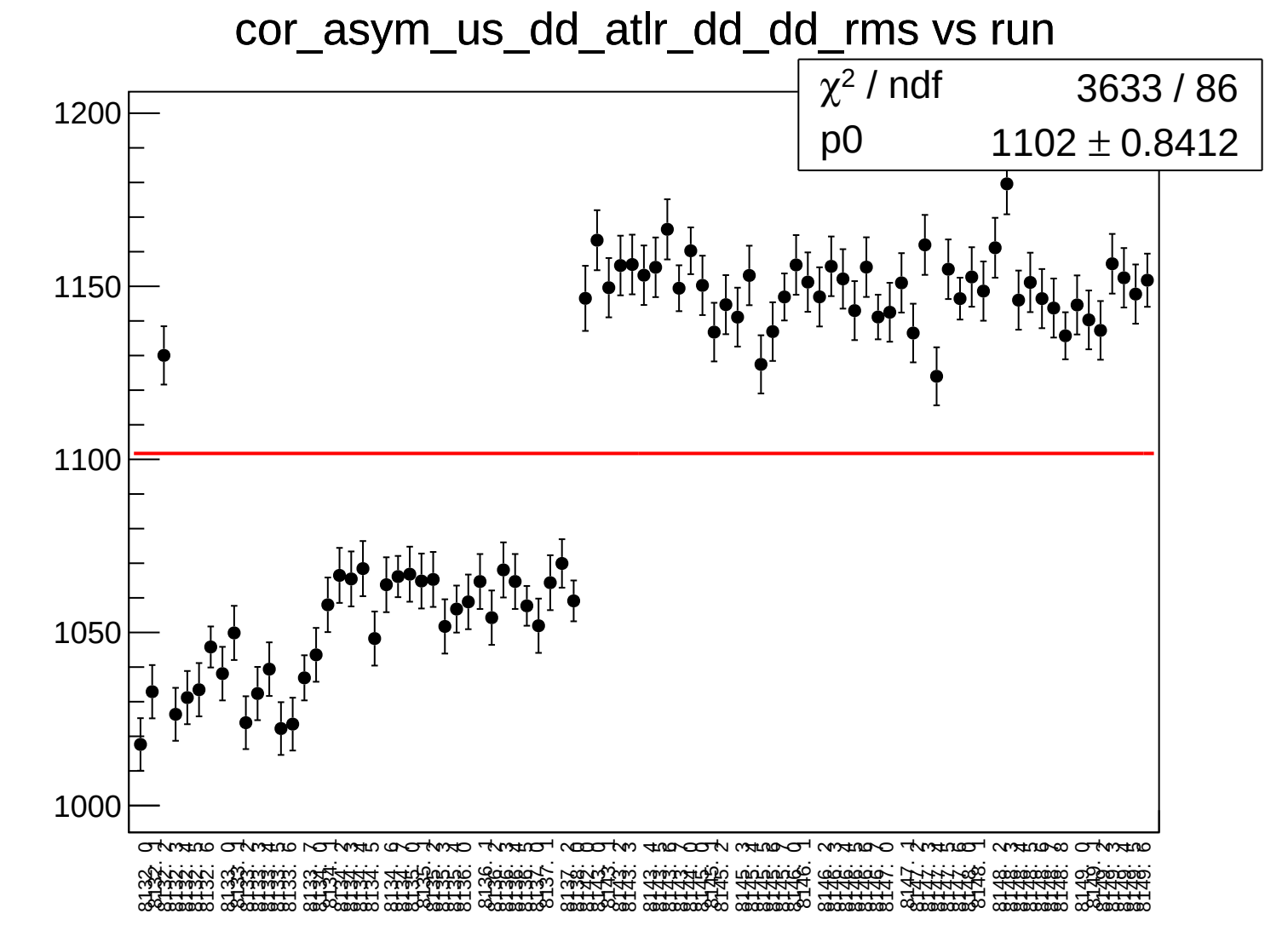

reg_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 3633 / 86
p0 1102 ± 0.8412
1200
1150
1100
1050
1000

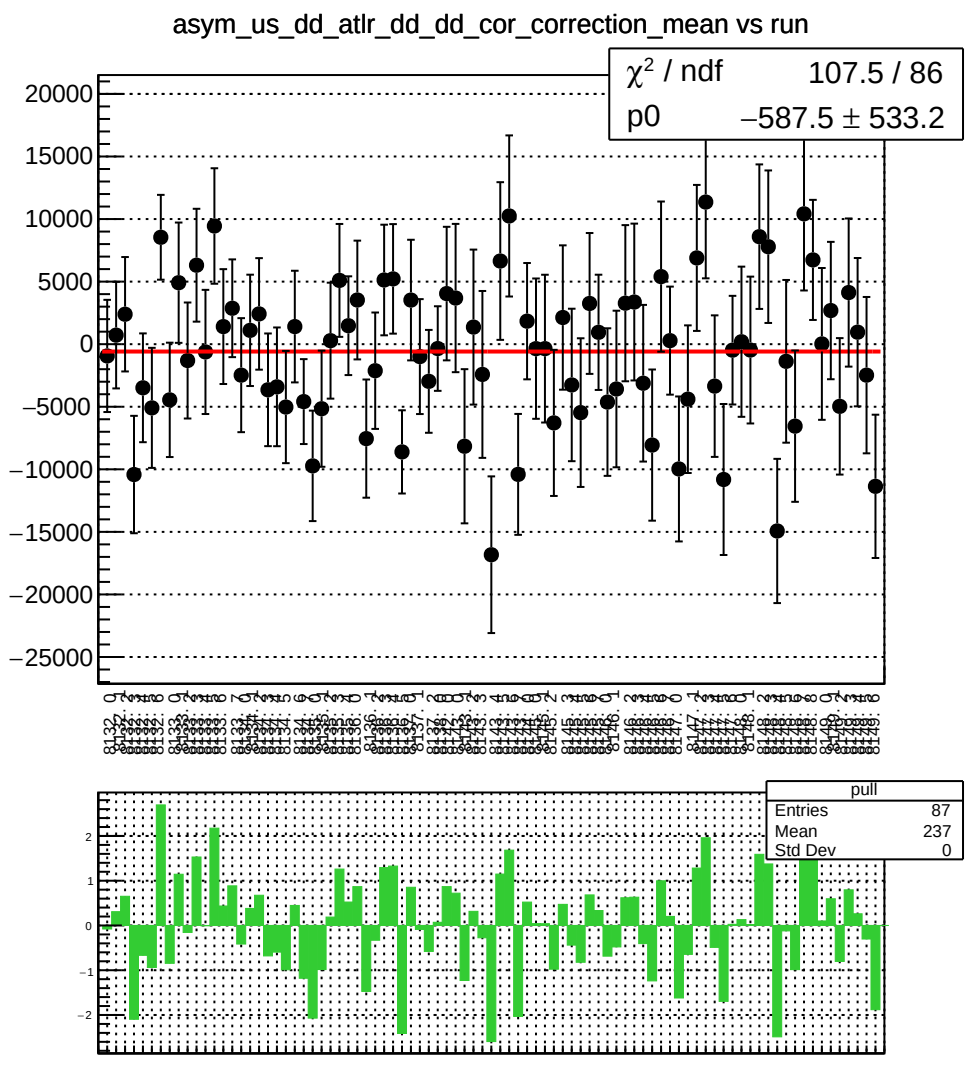

asym_us_dd_atlr_dd_dd_reg_correction_mean vs run
χ² / ndf 107.5 / 86
p0 −587.4 ± 533.2
pull
Entries 87
Mean 236.5
Std Dev 0

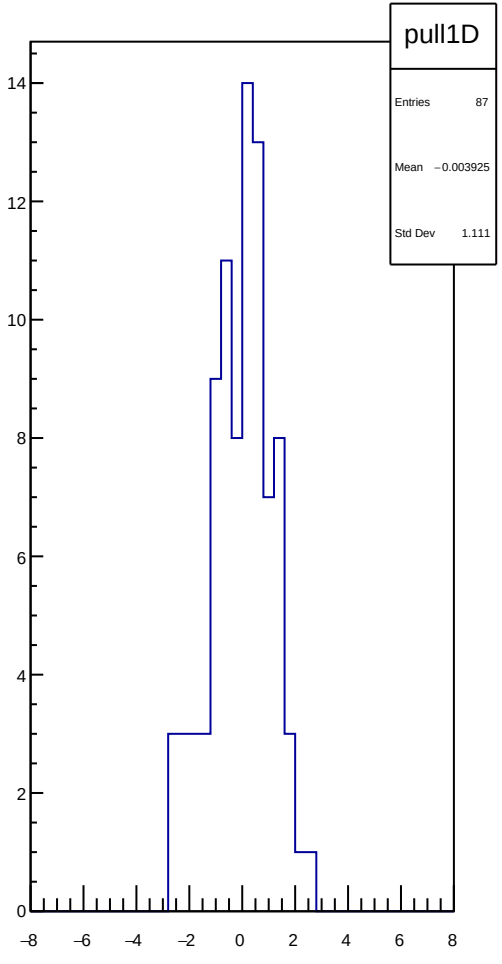

pull1D
Entries 87
Mean −0.003926
Std Dev 1.112

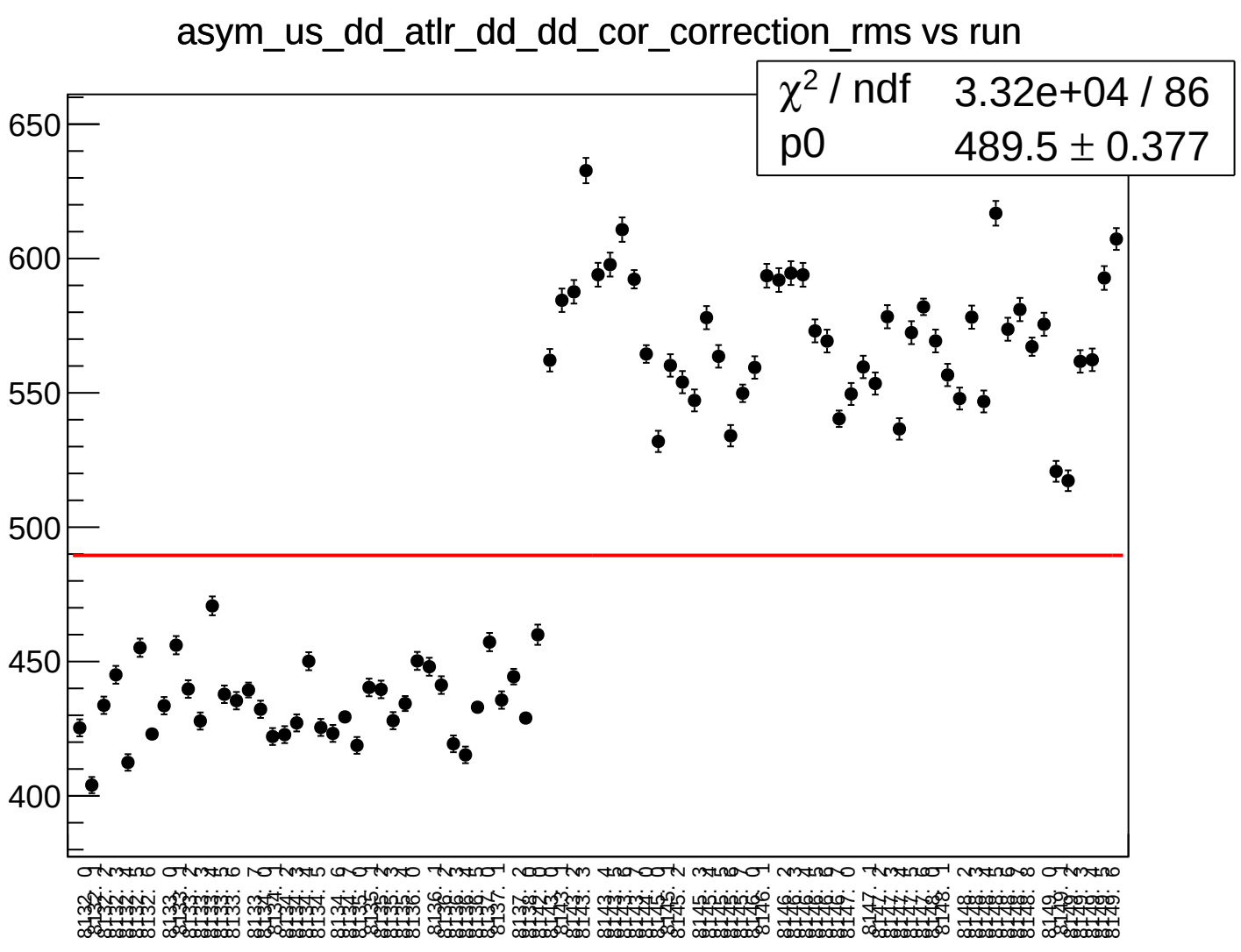

asym_us_dd_atlr_dd_dd_reg_correction_rms vs run
χ² / ndf 3.319e+04 / 86
p0 489.5 ± 0.377
650
600
550
500
450
400

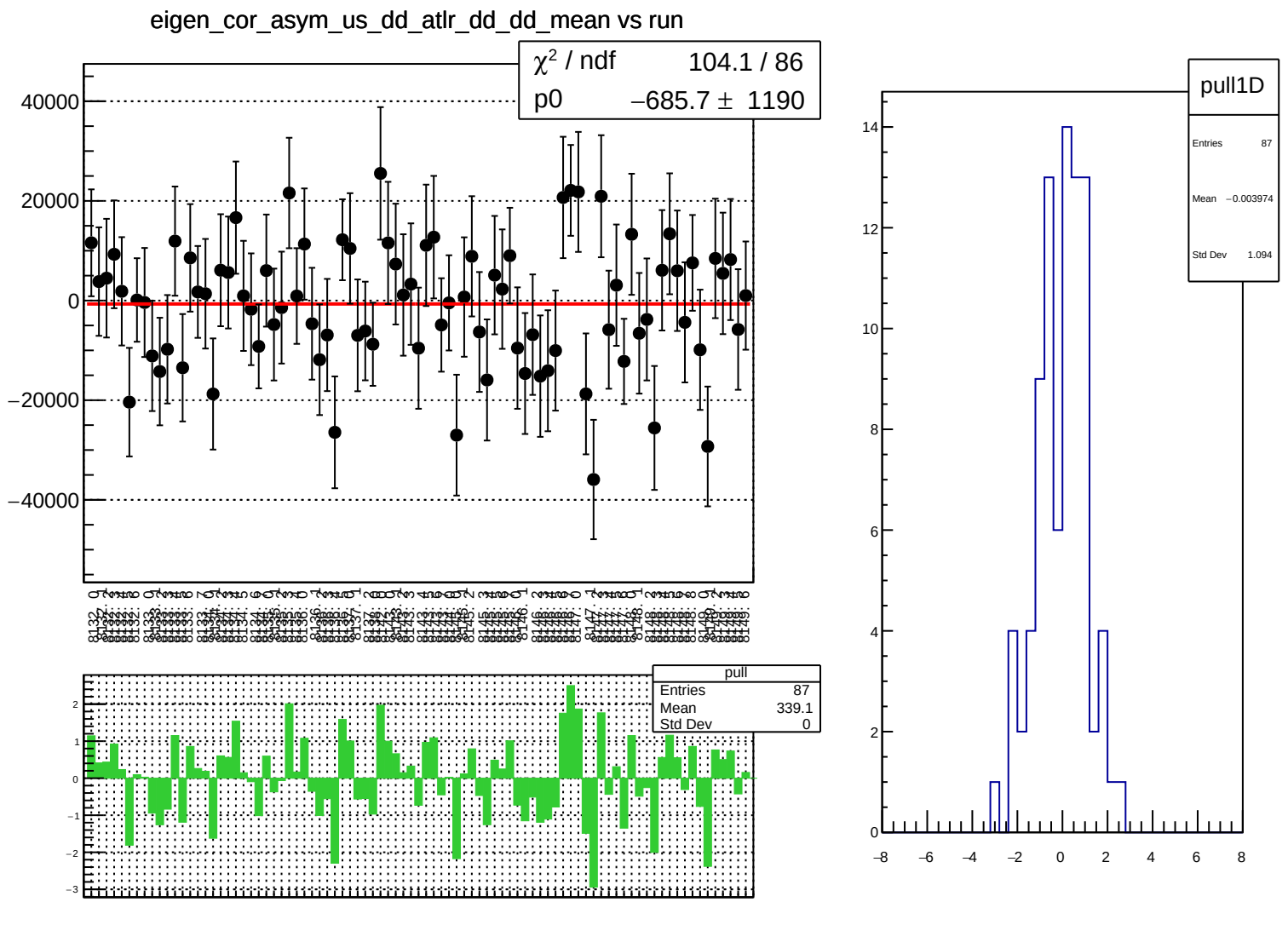

cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 104.1 / 86
p0 −685.7 ± 1190
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 339.1
Std Dev 0
pull1D
Entries 87
Mean −0.003974
Std Dev 1.094

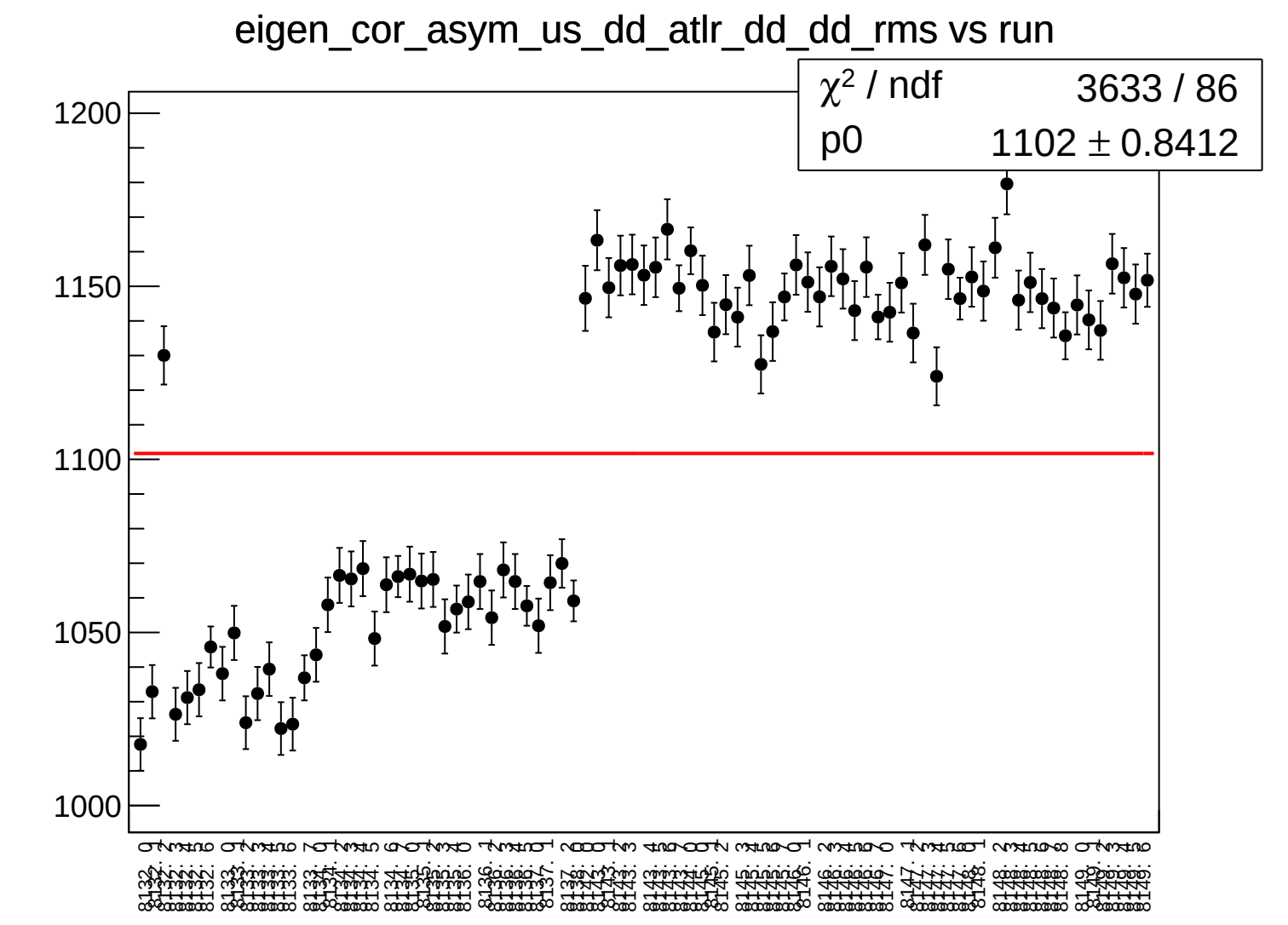

cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 3633 / 86
p0 1102 ± 0.8412
1200
1150
1100
1050
1000

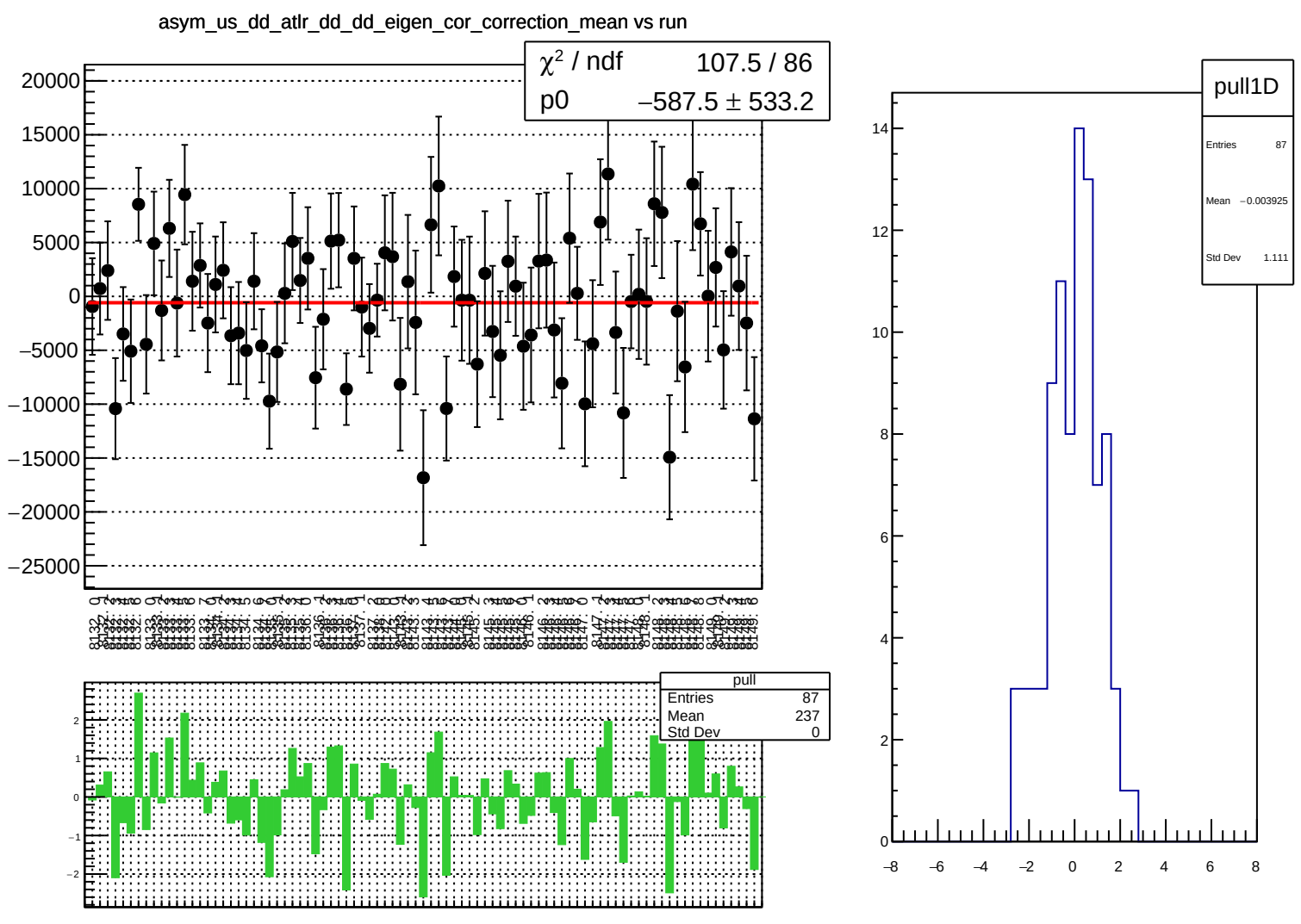

asym_us_dd_atlr_dd_dd_cor_correction_mean vs run
χ² / ndf 107.5 / 86
p0 −587.5 ± 533.2
pull
Entries 87
Mean 237
Std Dev 0

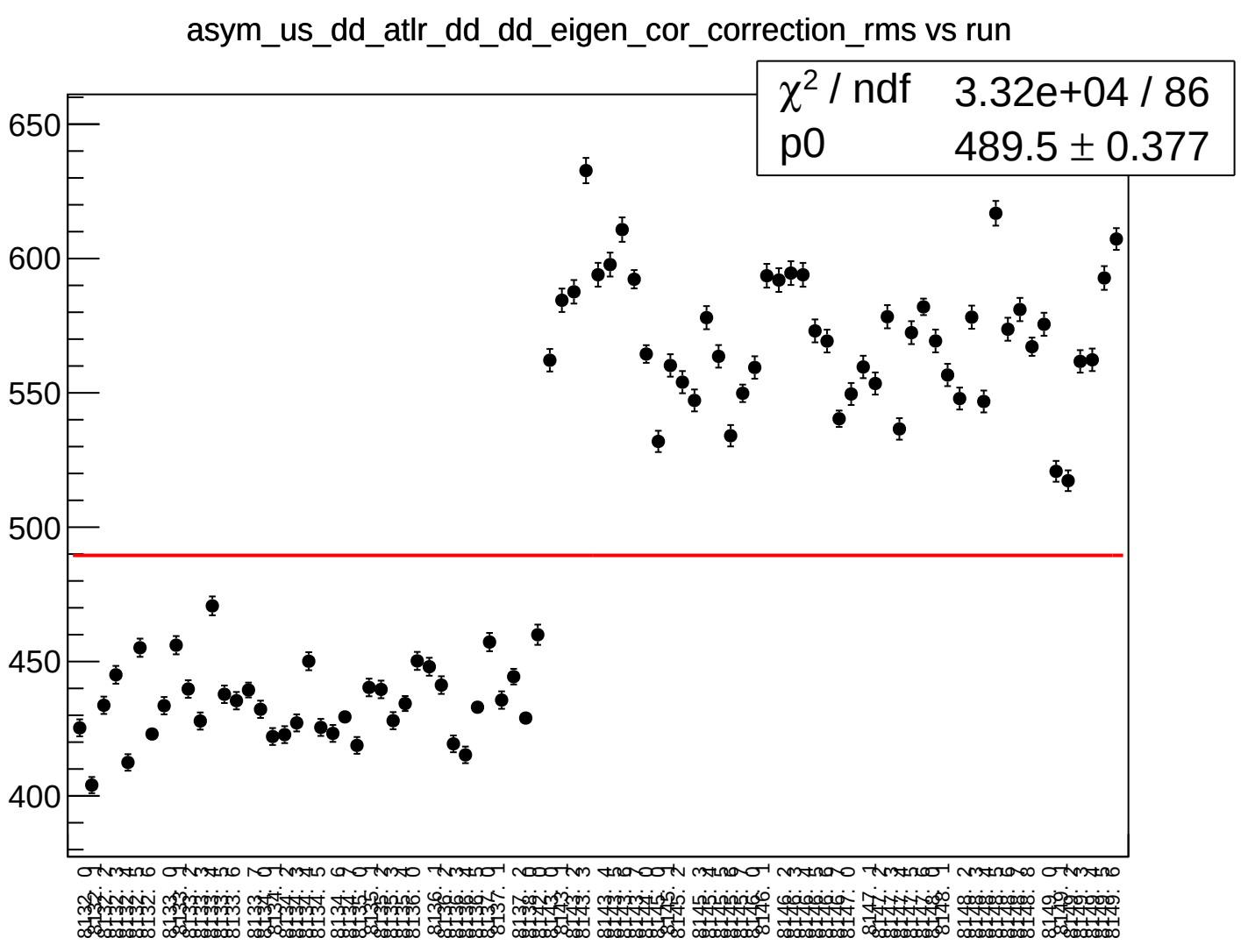

pull1D
Entries 87
Mean −0.003925
Std Dev 1.111

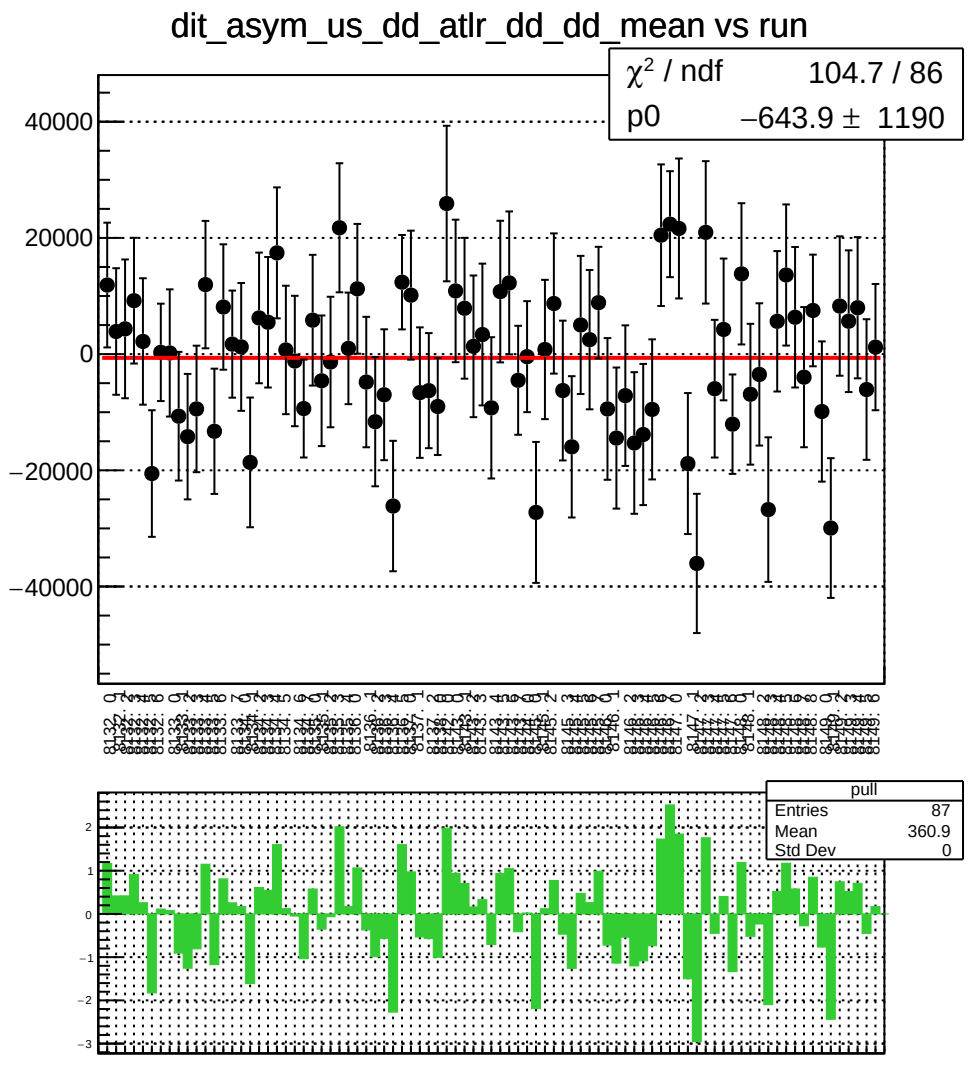

asym_us_dd_atlr_dd_dd_cor_correction_rms vs run
χ² / ndf 3.32e+04 / 86
p0 489.5 ± 0.377
650
600
550
500
450
400

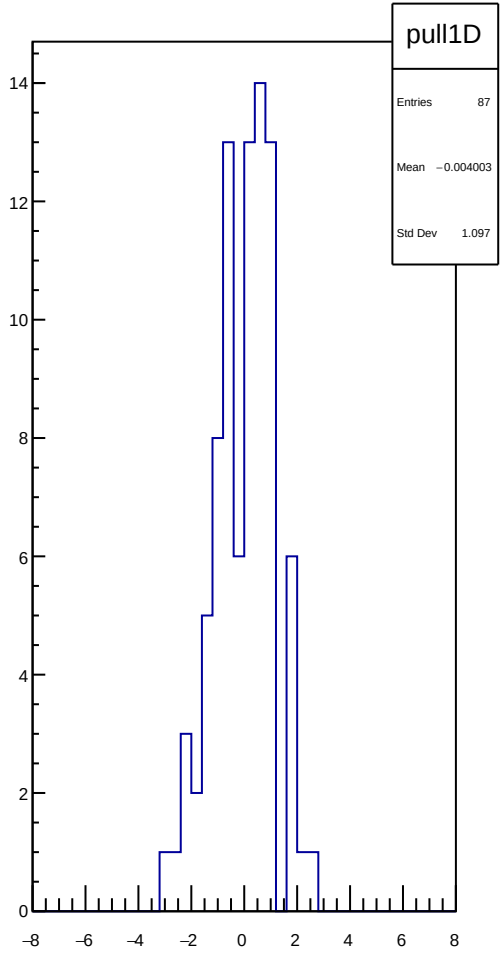

eigen_cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 104.1 / 86
p0 −685.7 ± 1190
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 339.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean −0.003974
Std Dev 1.094
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

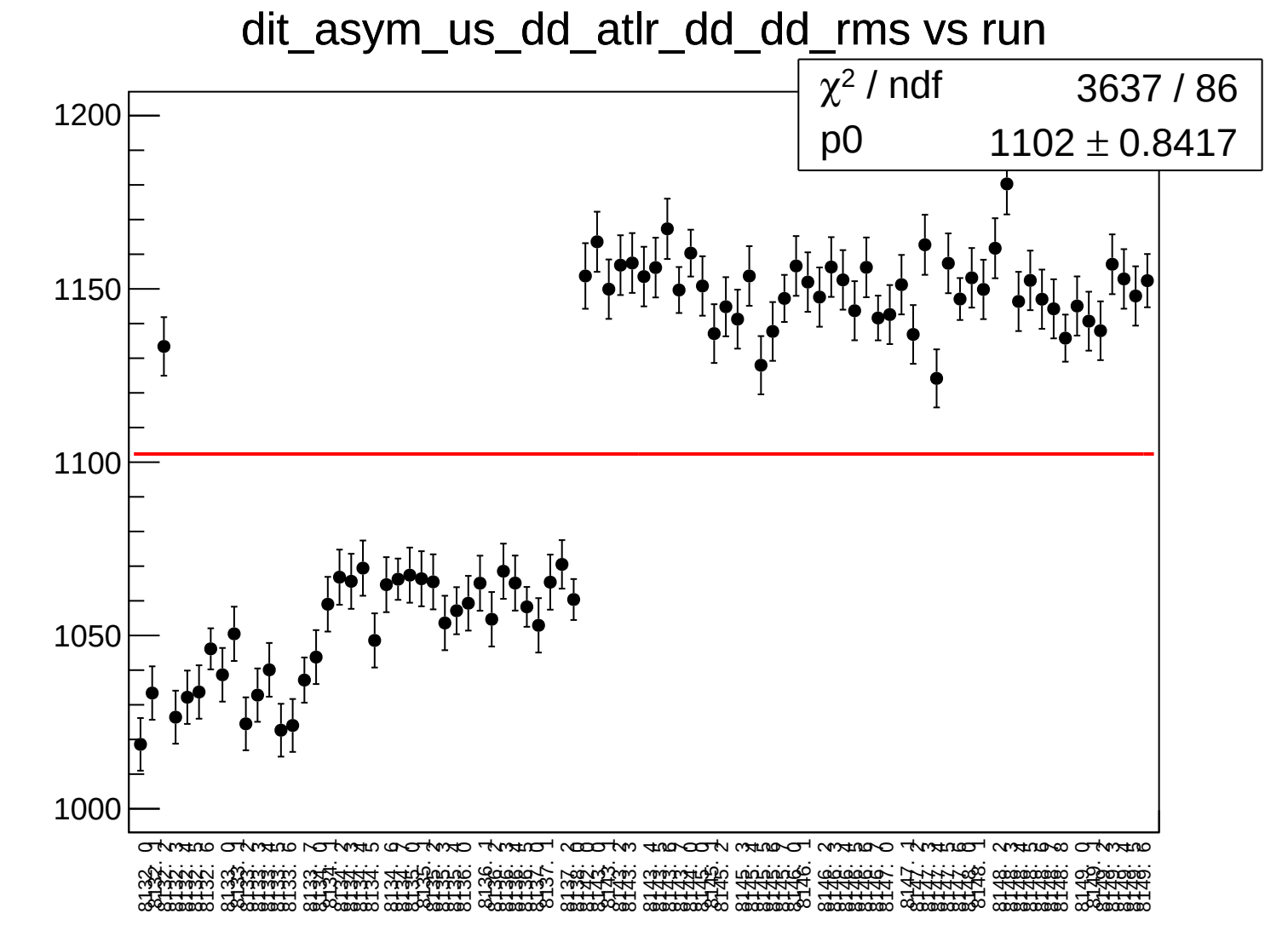

eigen_cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 3633 / 86
p0 1102 ± 0.8412
1200
1150
1100
1050
1000

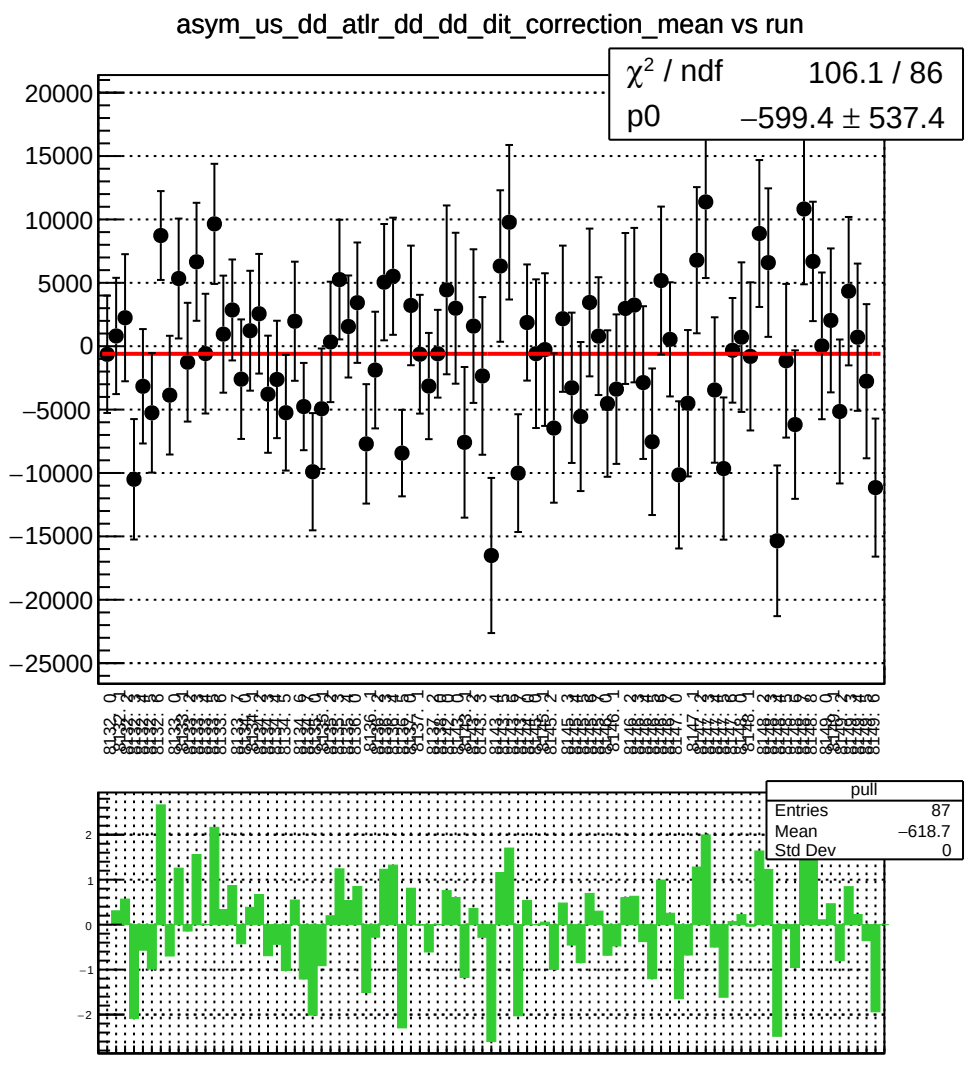

asym_us_dd_atlr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 107.5 / 86
p0 −587.5 ± 533.2
pull
Entries 87
Mean 237
Std Dev 0
pull1D
Entries 87
Mean −0.003925
Std Dev 1.111

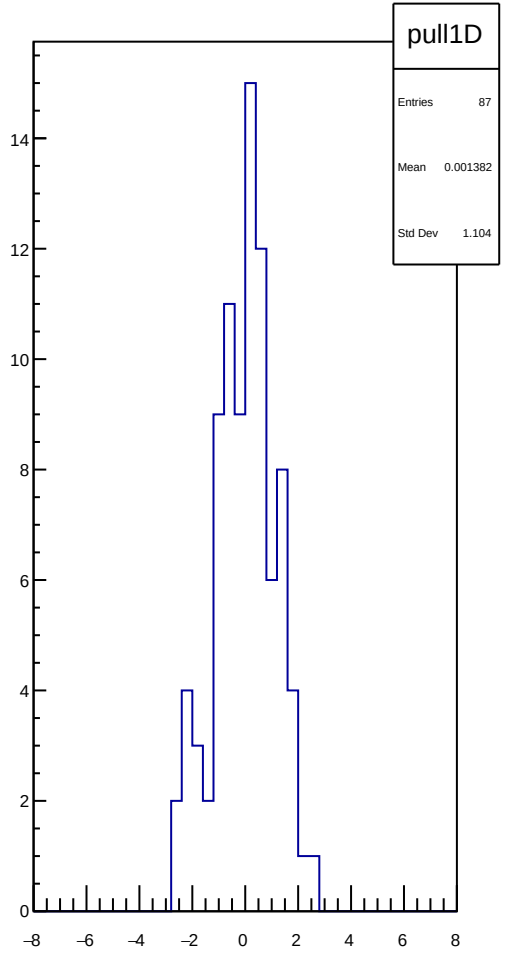

asym_us_dd_atlr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.32e+04 / 86
p0 489.5 ± 0.377
650
600
550
500
450
400

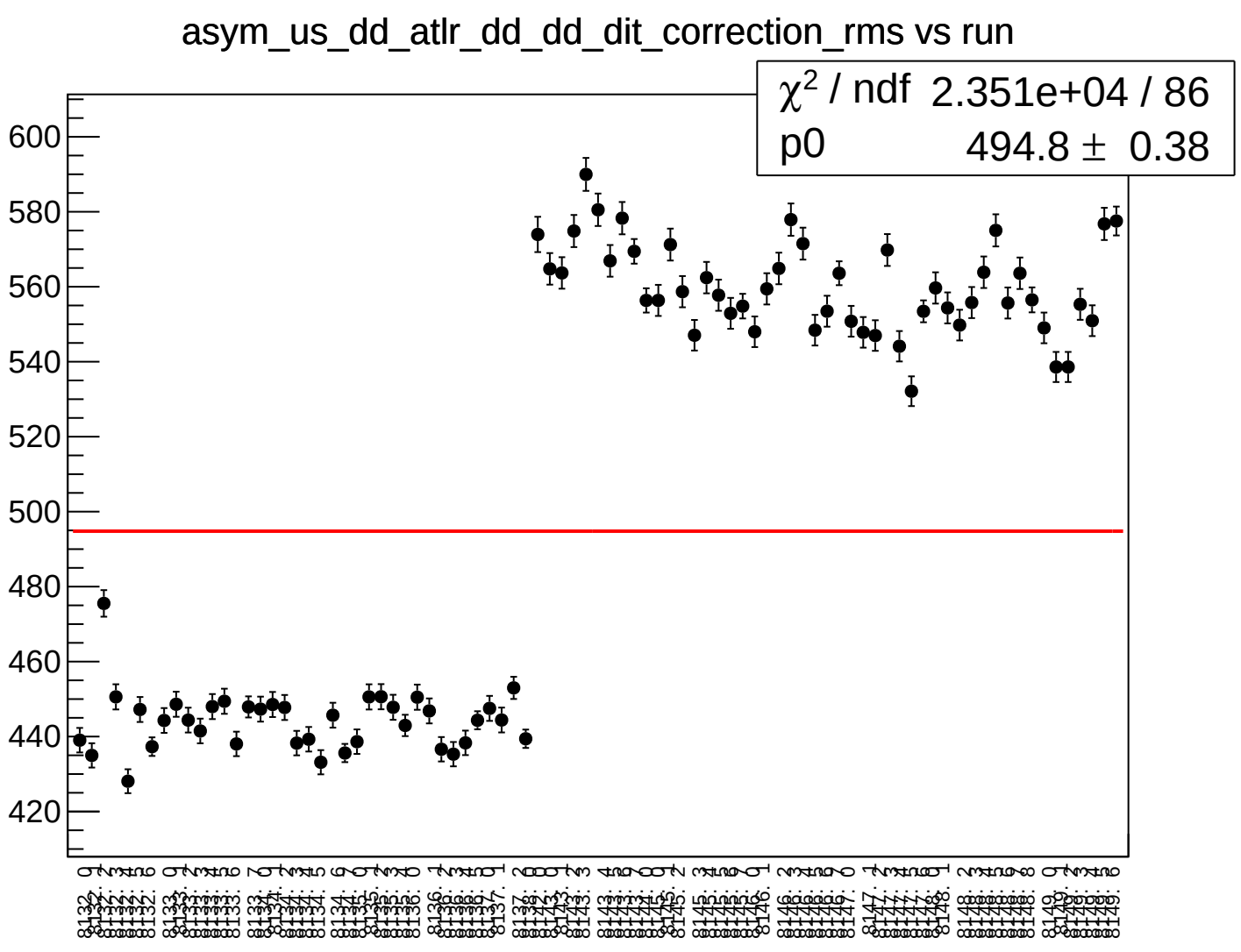

dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 104.7 / 86
p0 −643.9 ± 1190
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 360.9
Std Dev 0
2
1
0
−1
−2
−3

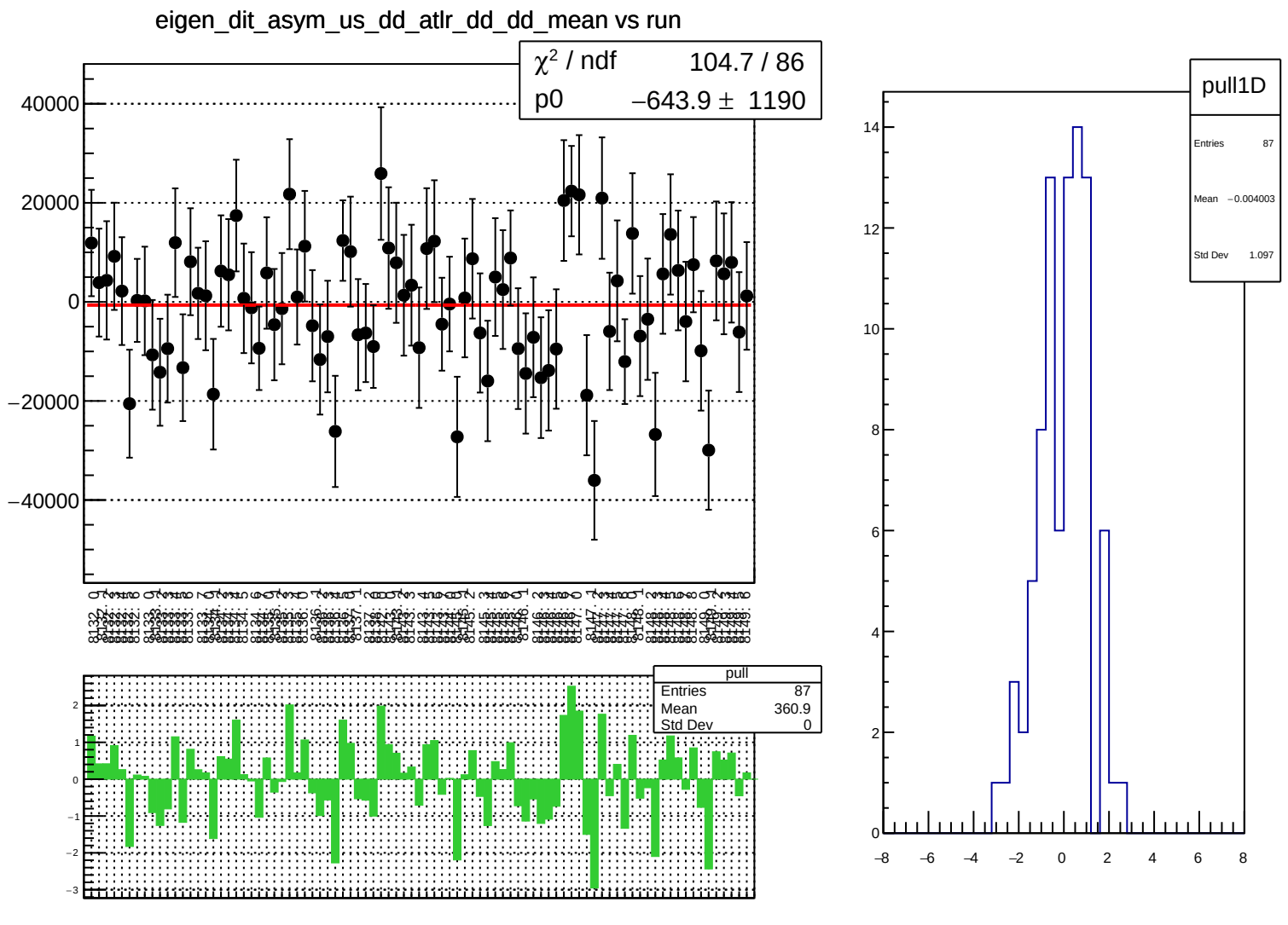

pull1D
Entries 87
Mean −0.004003
Std Dev 1.097
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

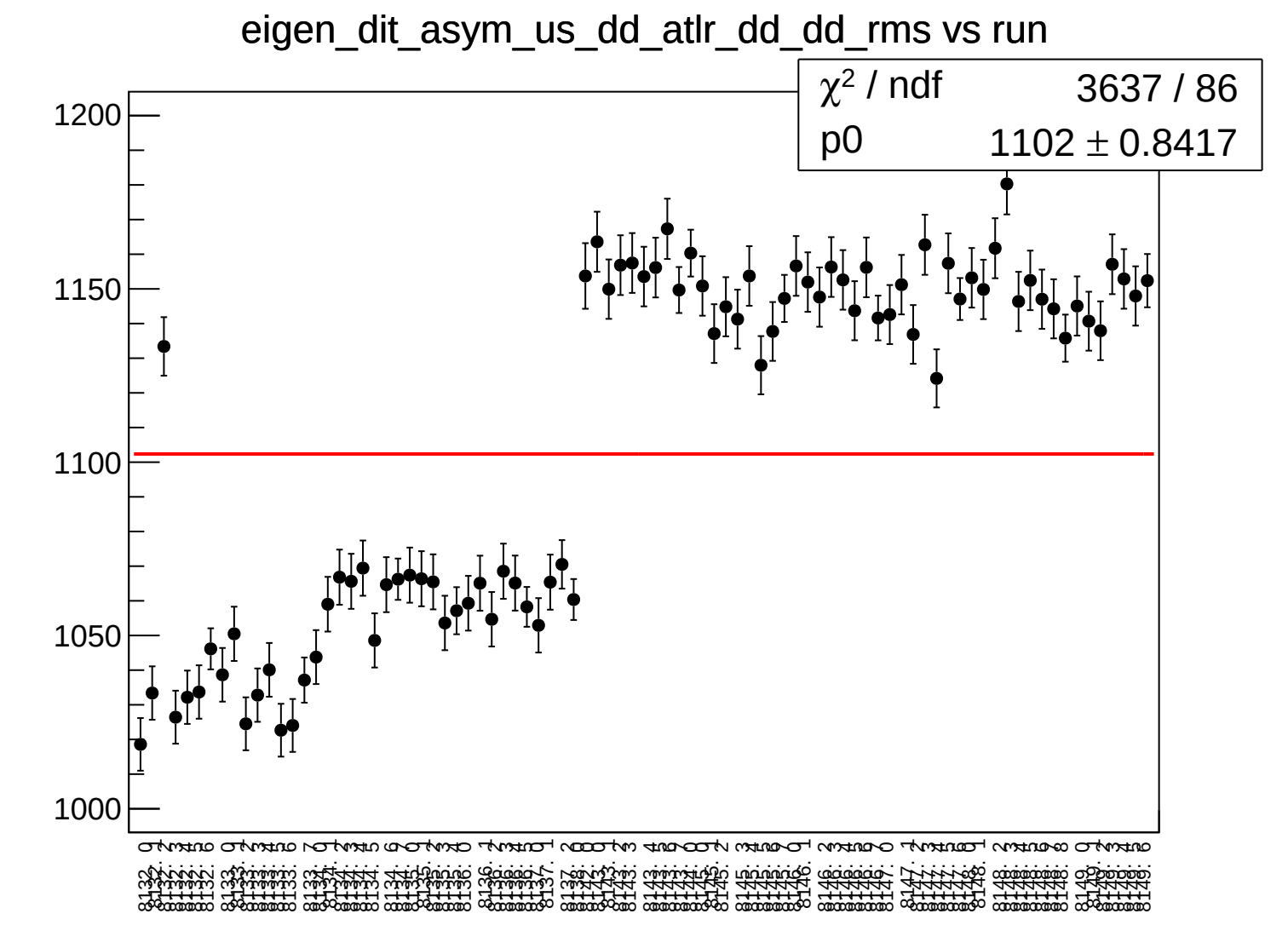

dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 3637 / 86
p0 1102 ± 0.8417
1200
1150
1100
1050
1000

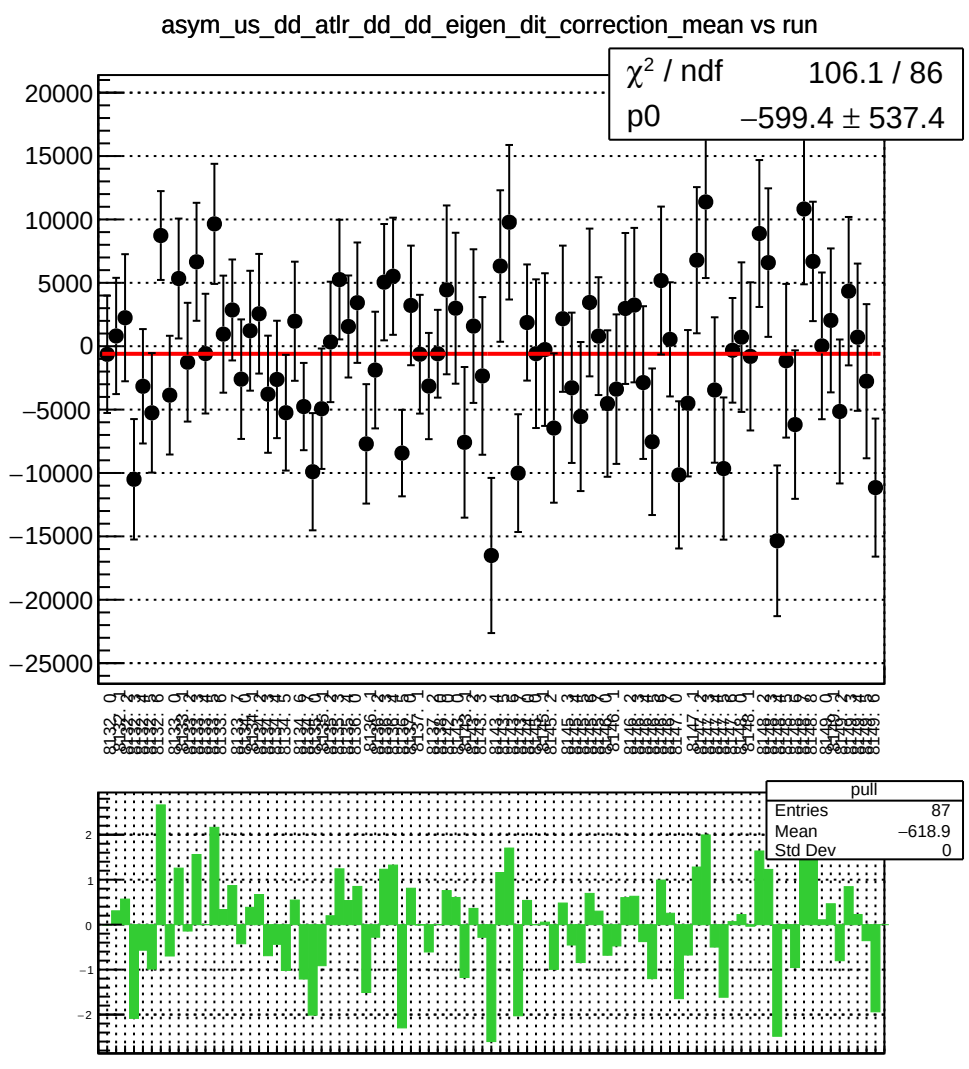

asym_us_dd_atlr_dd_dd_dit_correction_mean vs run
χ² / ndf 106.1 / 86
p0 −599.4 ± 537.4
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 87
Mean −618.7
Std Dev 0
2
1
0
−1
−2

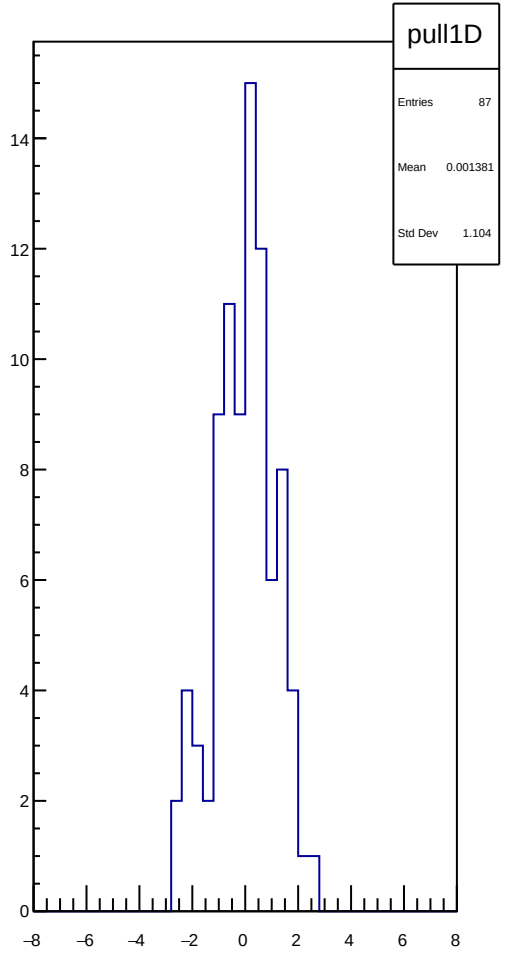

pull1D
Entries 87
Mean 0.001382
Std Dev 1.104
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

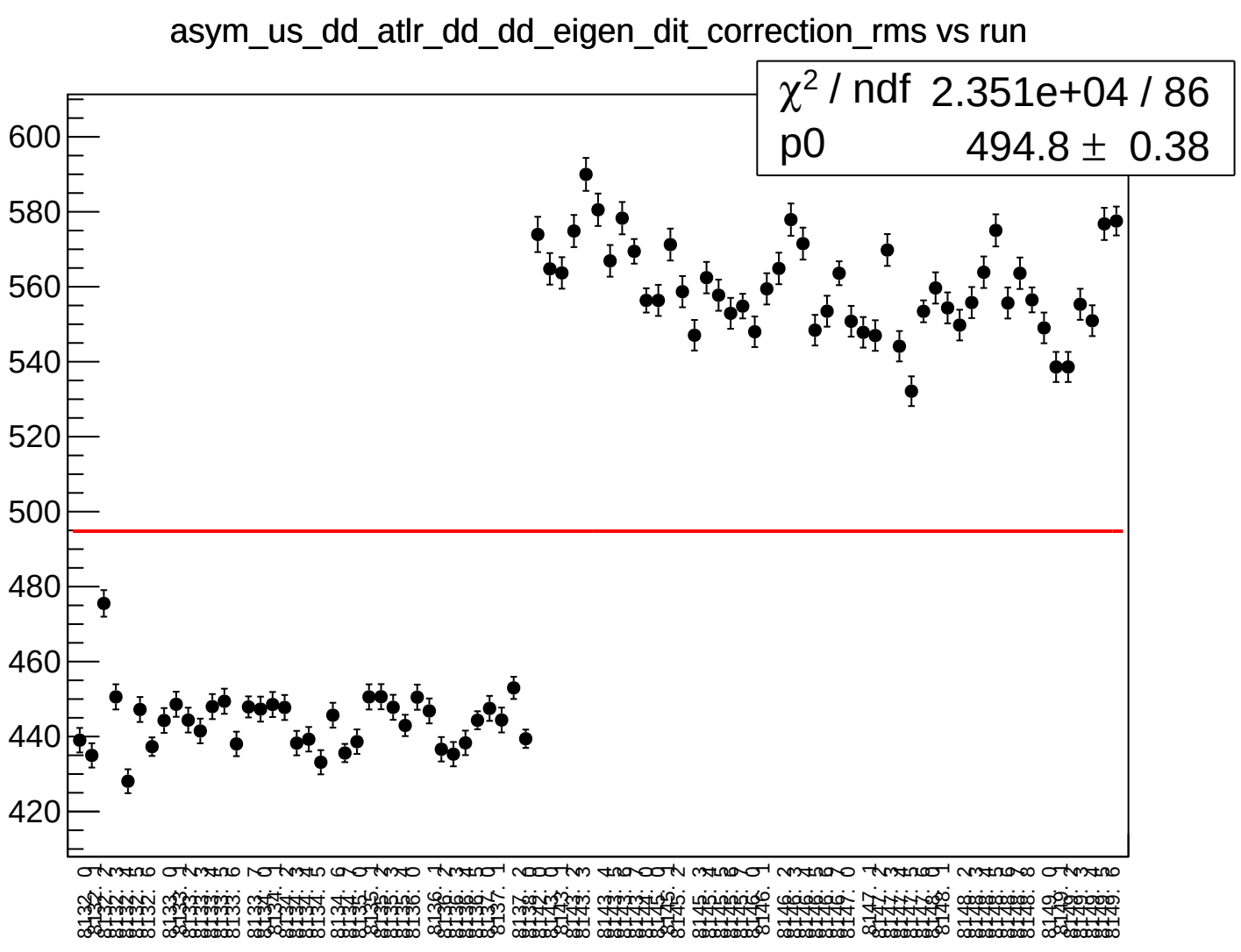

asym_us_dd_atlr_dd_dd_dit_correction_rms vs run
χ² / ndf 2.351e+04 / 86
p0 494.8 ± 0.38
600
580
560
540
520
500
480
460
440
420

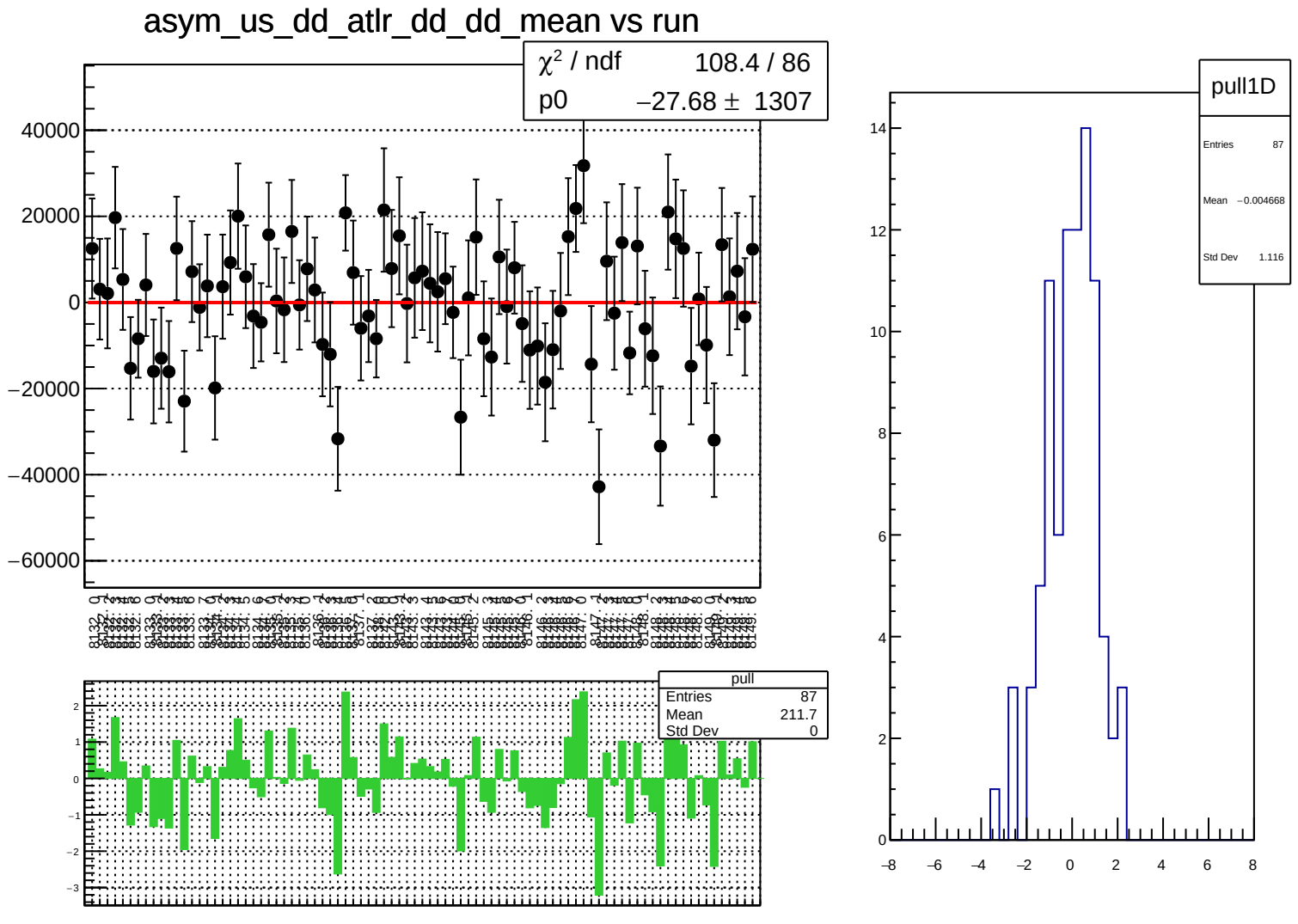

eigen_dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 104.7 / 86
p0 −643.9 ± 1190
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 360.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean −0.004003
Std Dev 1.097
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

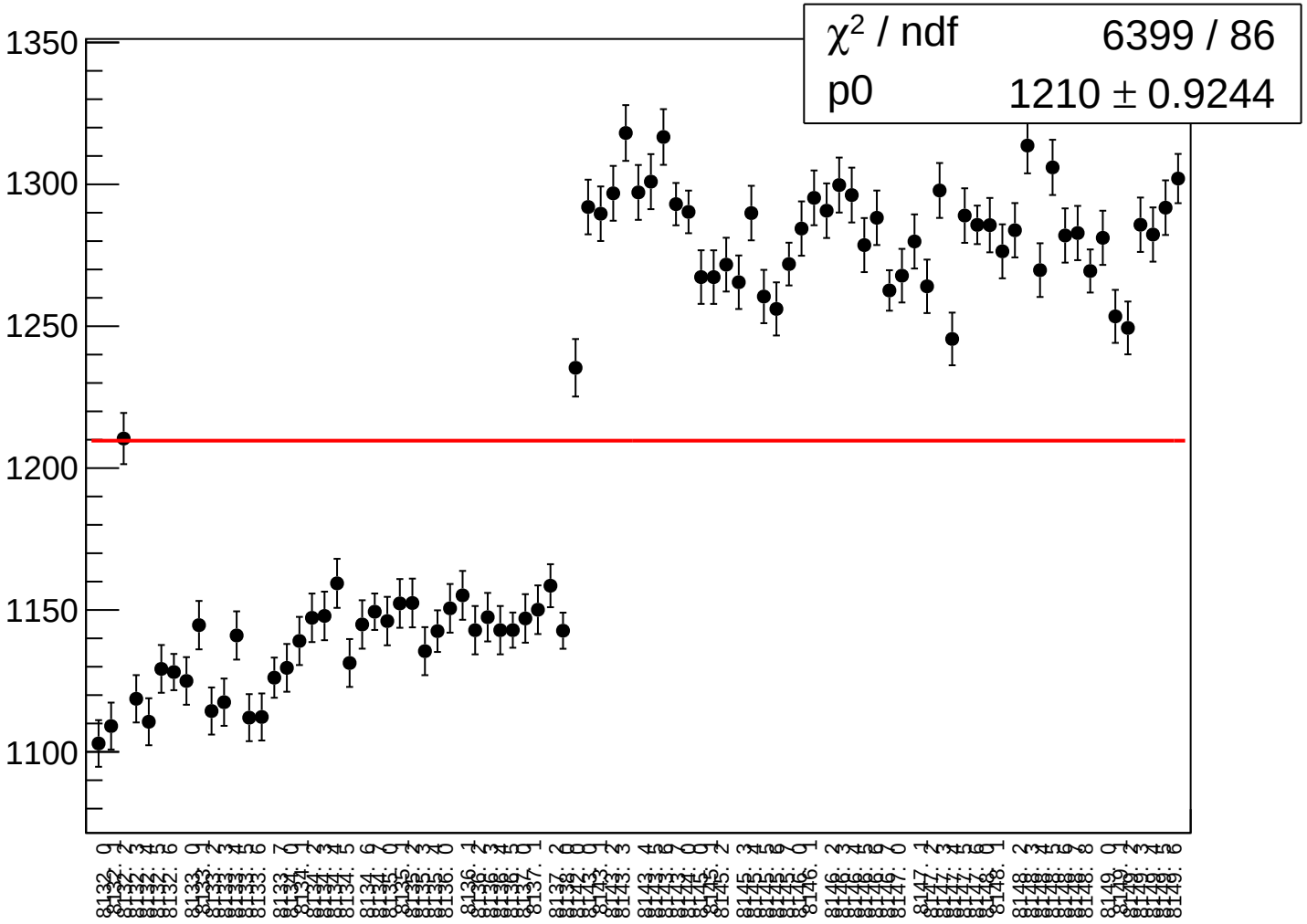

eigen_dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 3637 / 86
p0 1102 ± 0.8417
1200
1150
1100
1050
1000

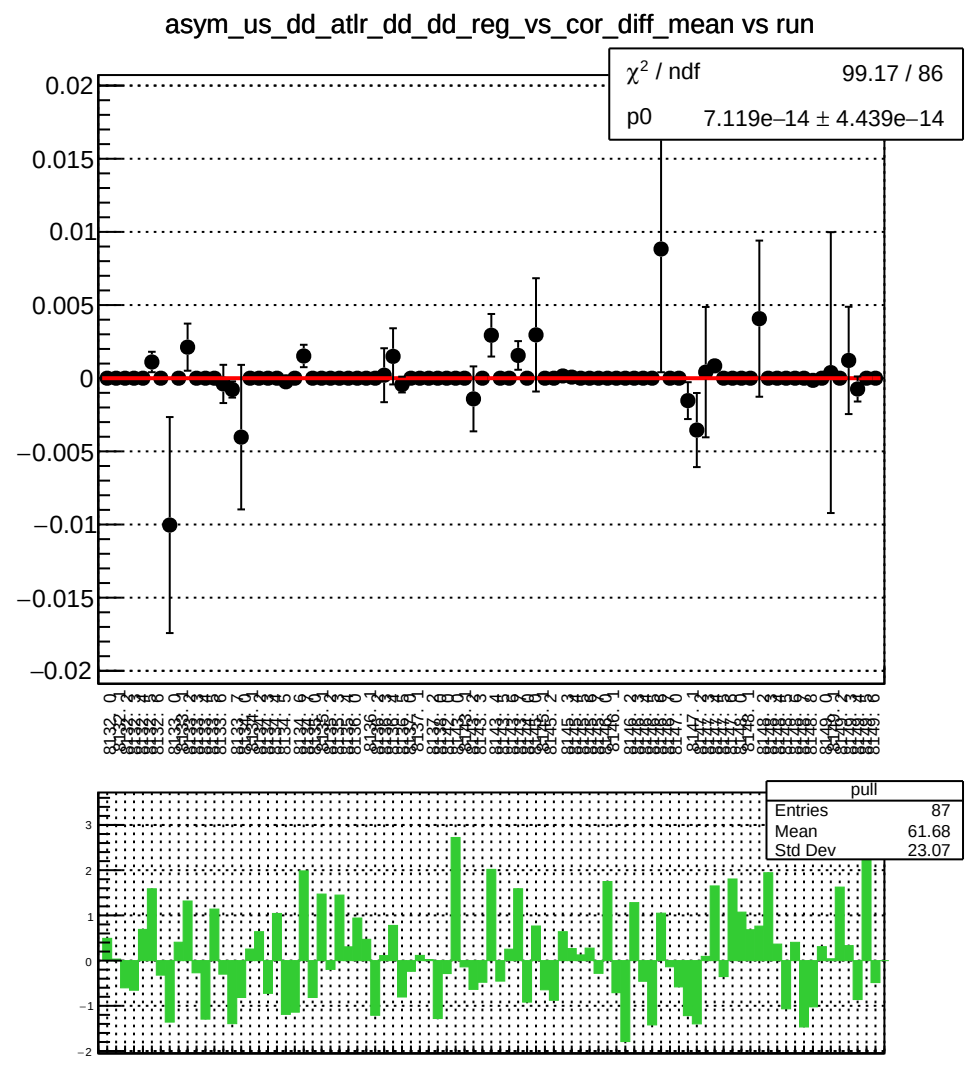

asym_us_dd_atlr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 106.1 / 86
p0 −599.4 ± 537.4
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 87
Mean −618.9
Std Dev 0
2
1
0
−1
−2

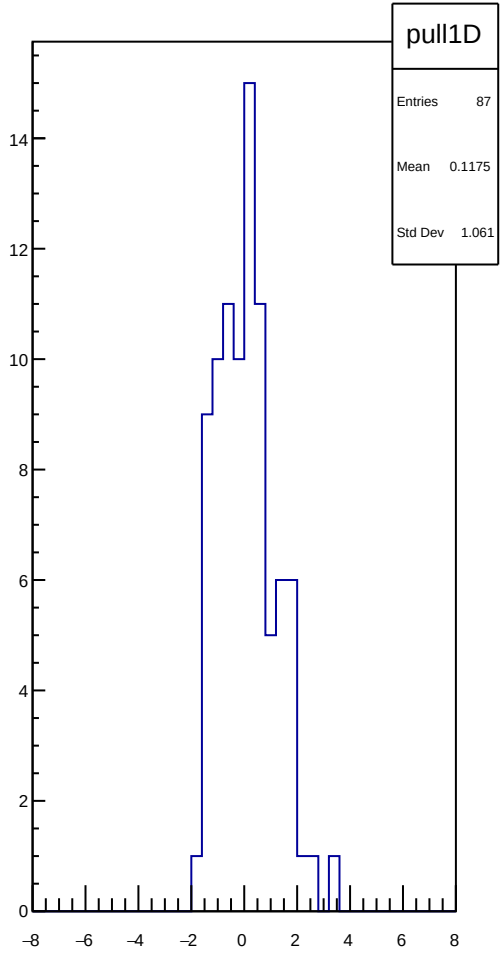

pull1D
Entries 87
Mean 0.001381
Std Dev 1.104
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

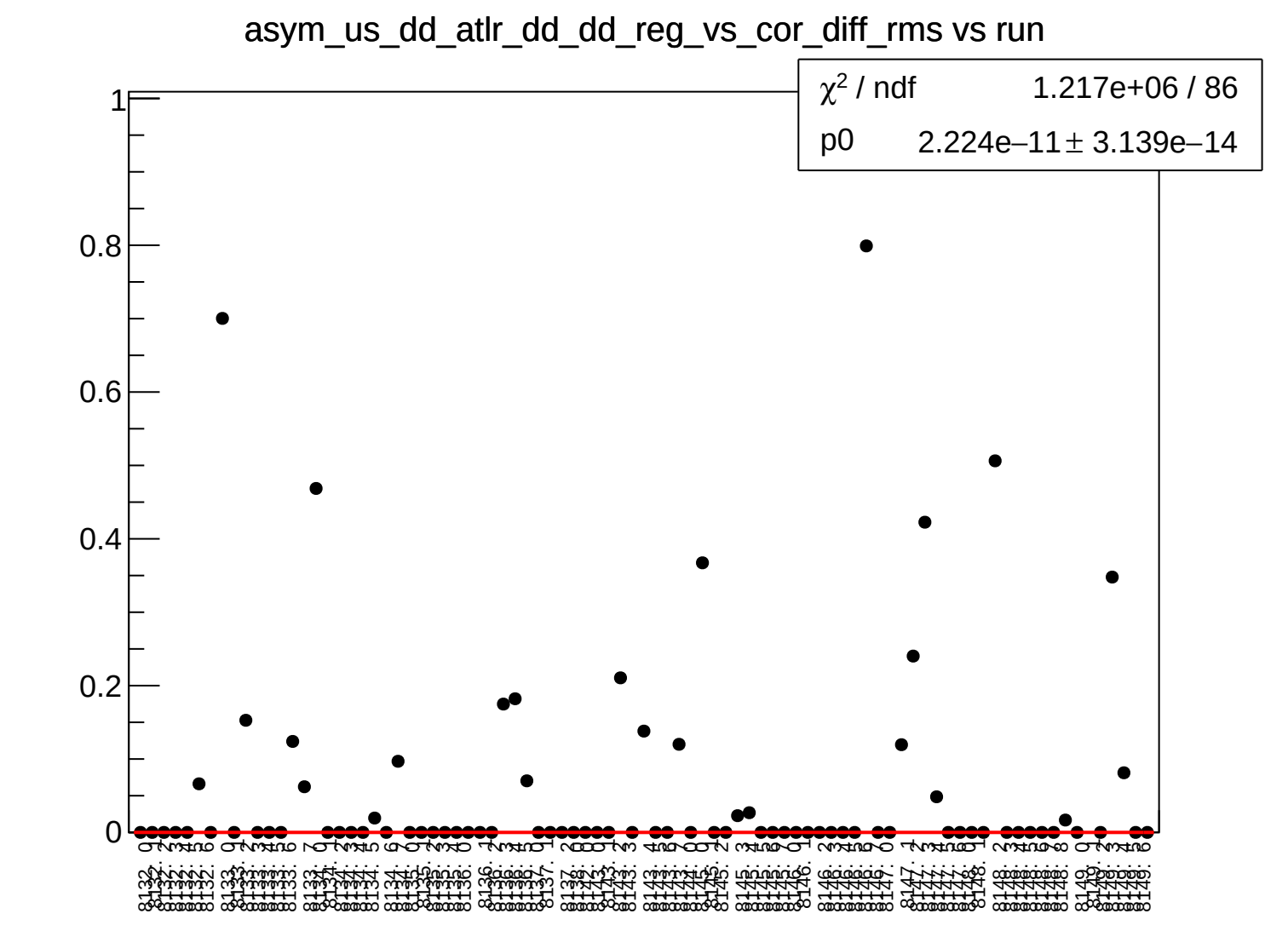

asym_us_dd_atlr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.351e+04 / 86
p0 494.8 ± 0.38
600
580
560
540
520
500
480
460
440
420

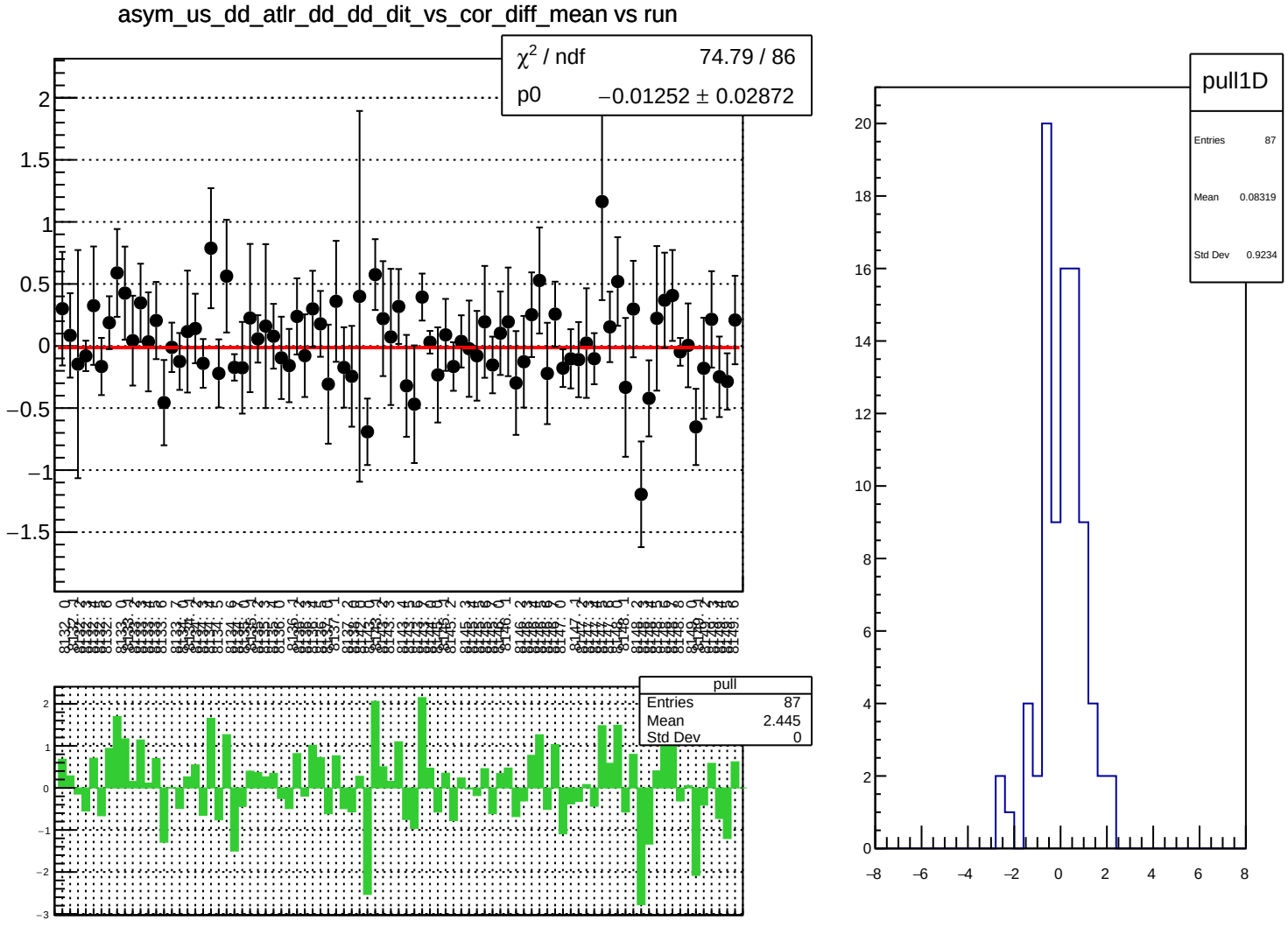

asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 108.4 / 86
p0 −27.68 ± 1307
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 211.7
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean −0.004668
Std Dev 1.116
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

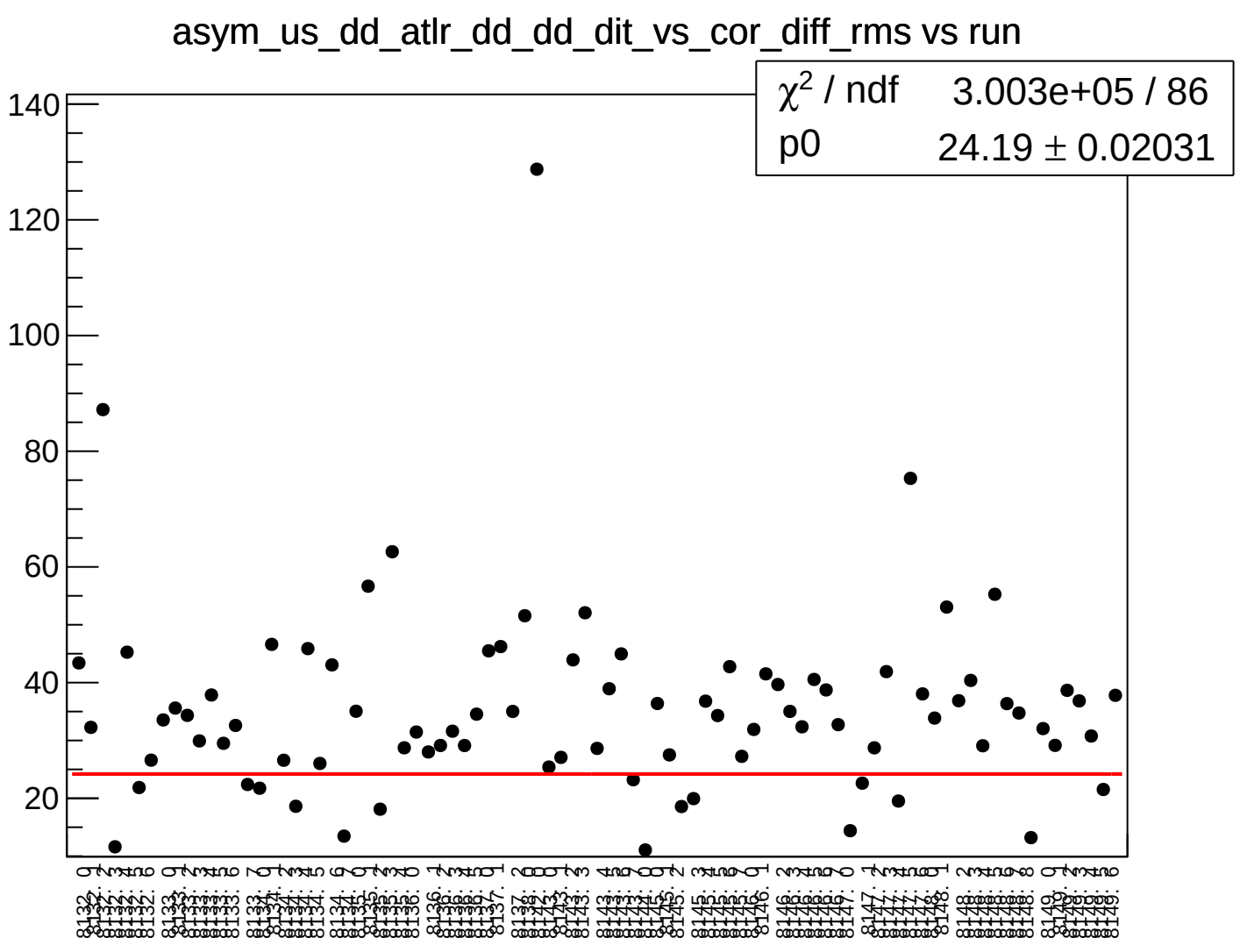

asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 6399 / 86
p0 1210 ± 0.9244
1350
1300
1250
1200
1150
1100

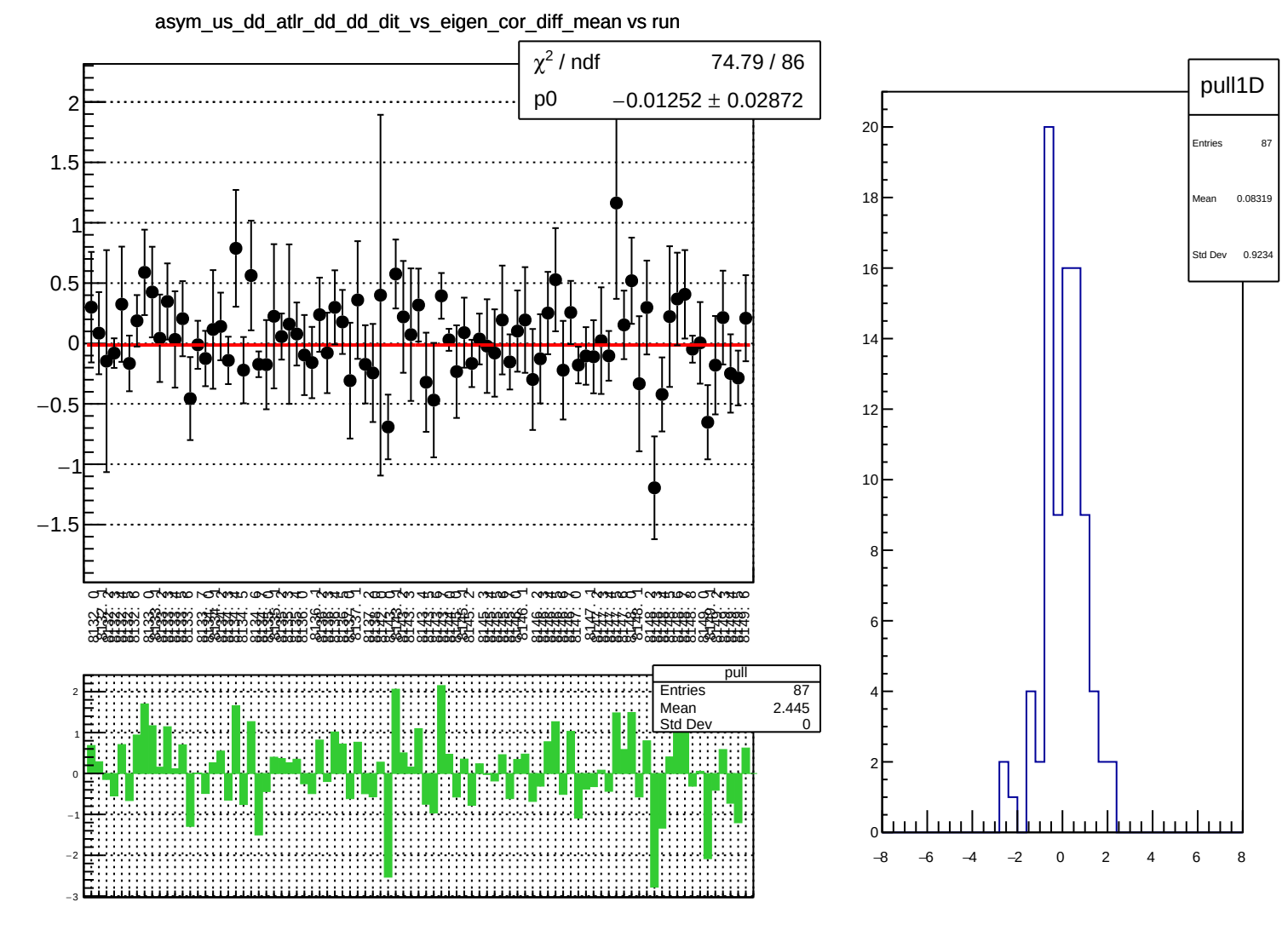

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 99.17 / 86
p0 7.119e−14 ± 4.439e−14
pull
Entries 87
Mean 61.68
Std Dev 23.07

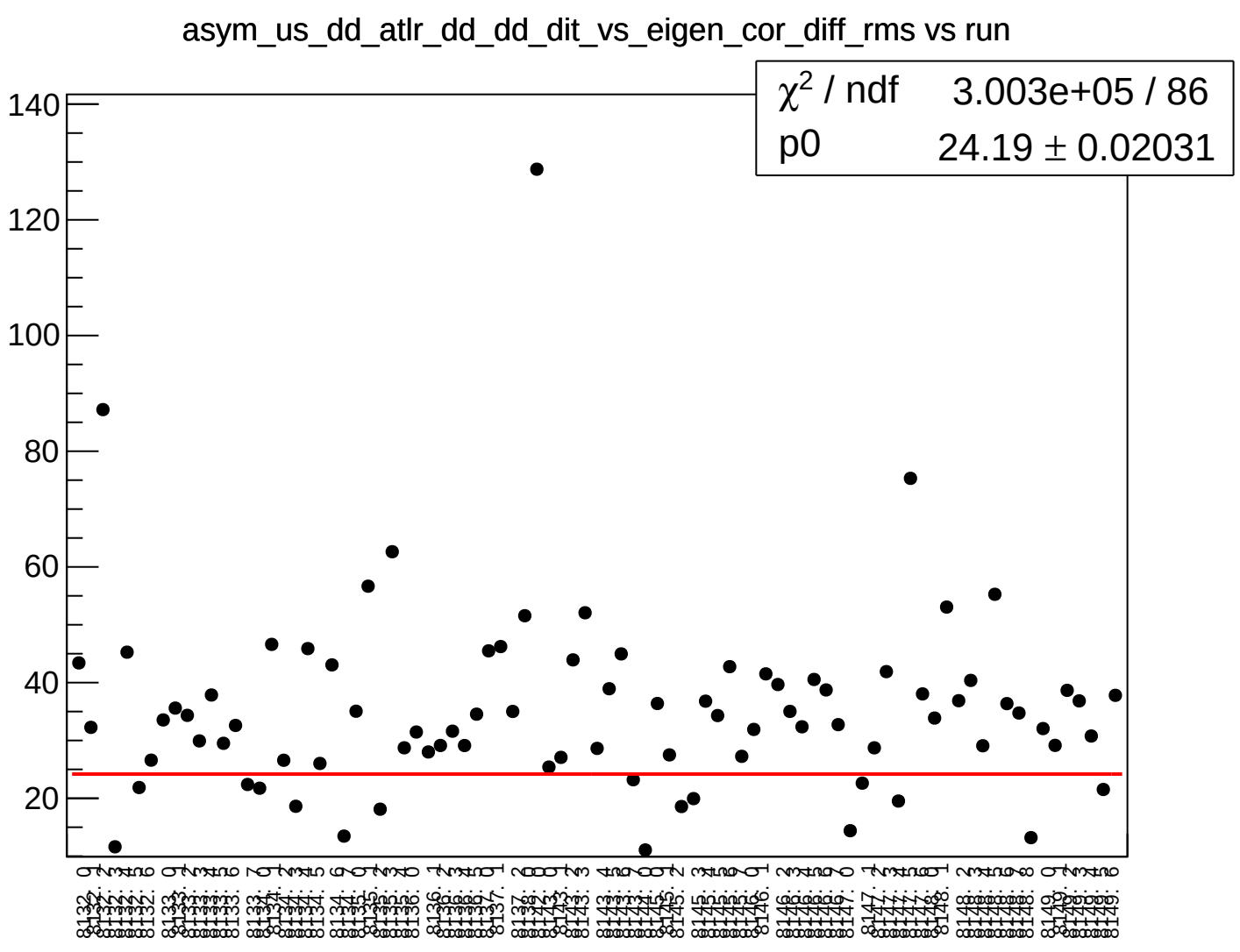

pull1D
Entries 87
Mean 0.1175
Std Dev 1.061

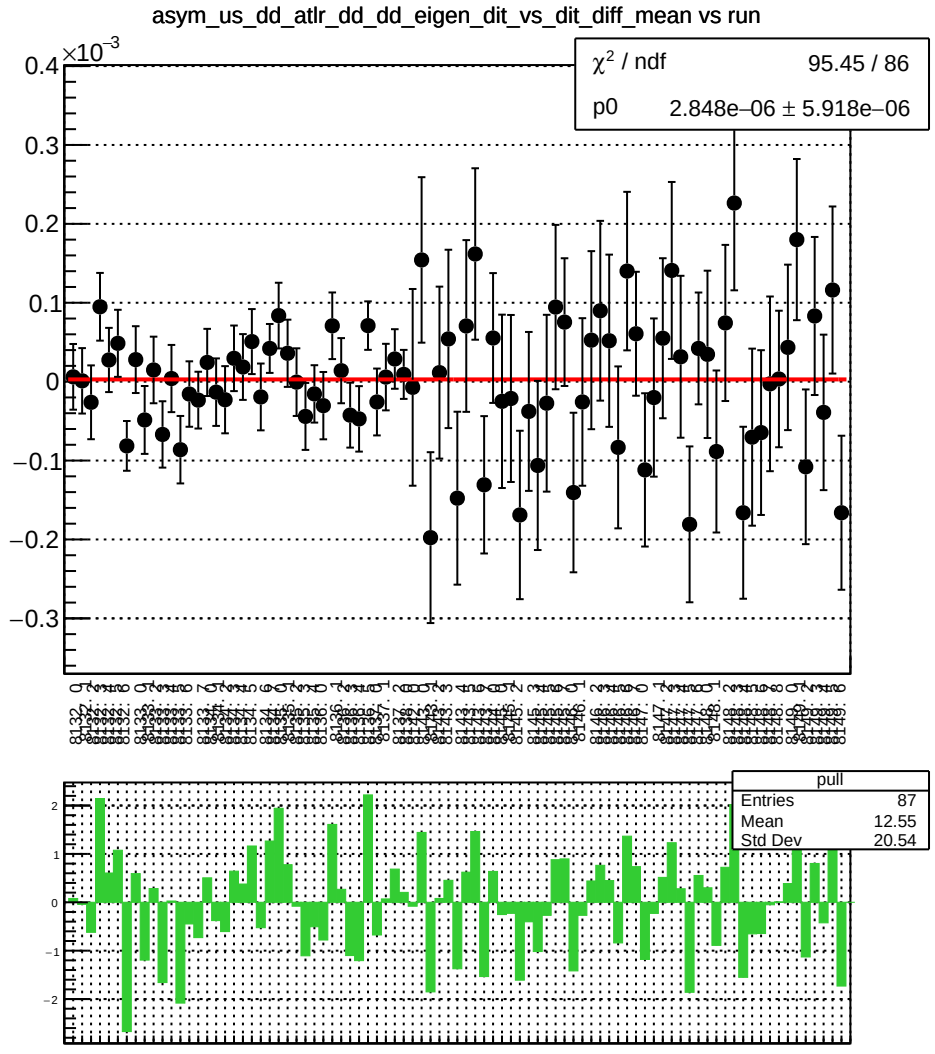

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.217e+06 / 86
p0 2.224e−11 ± 3.139e−14
1
0.8
0.6
0.4
0.2
0

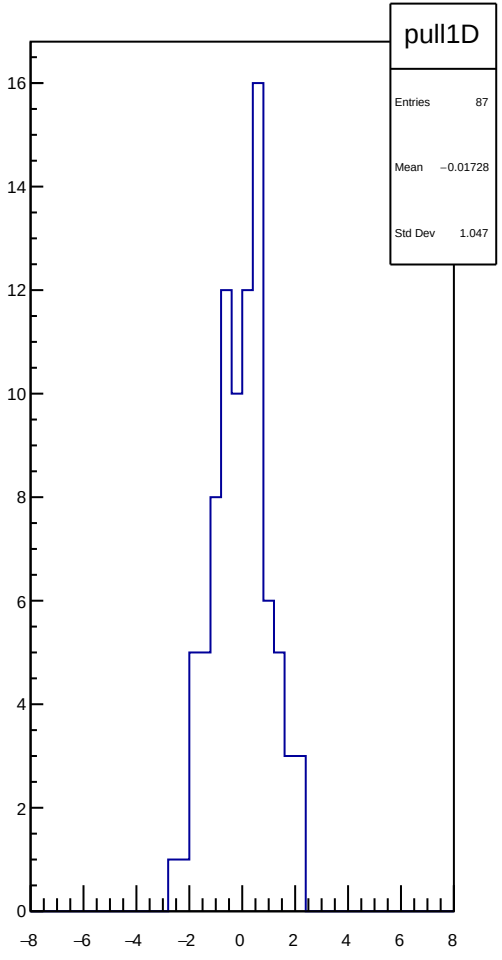

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 74.79 / 86
p0 −0.01252 ± 0.02872
pull
Entries 87
Mean 2.445
Std Dev 0
pull1D
Entries 87
Mean 0.08319
Std Dev 0.9234

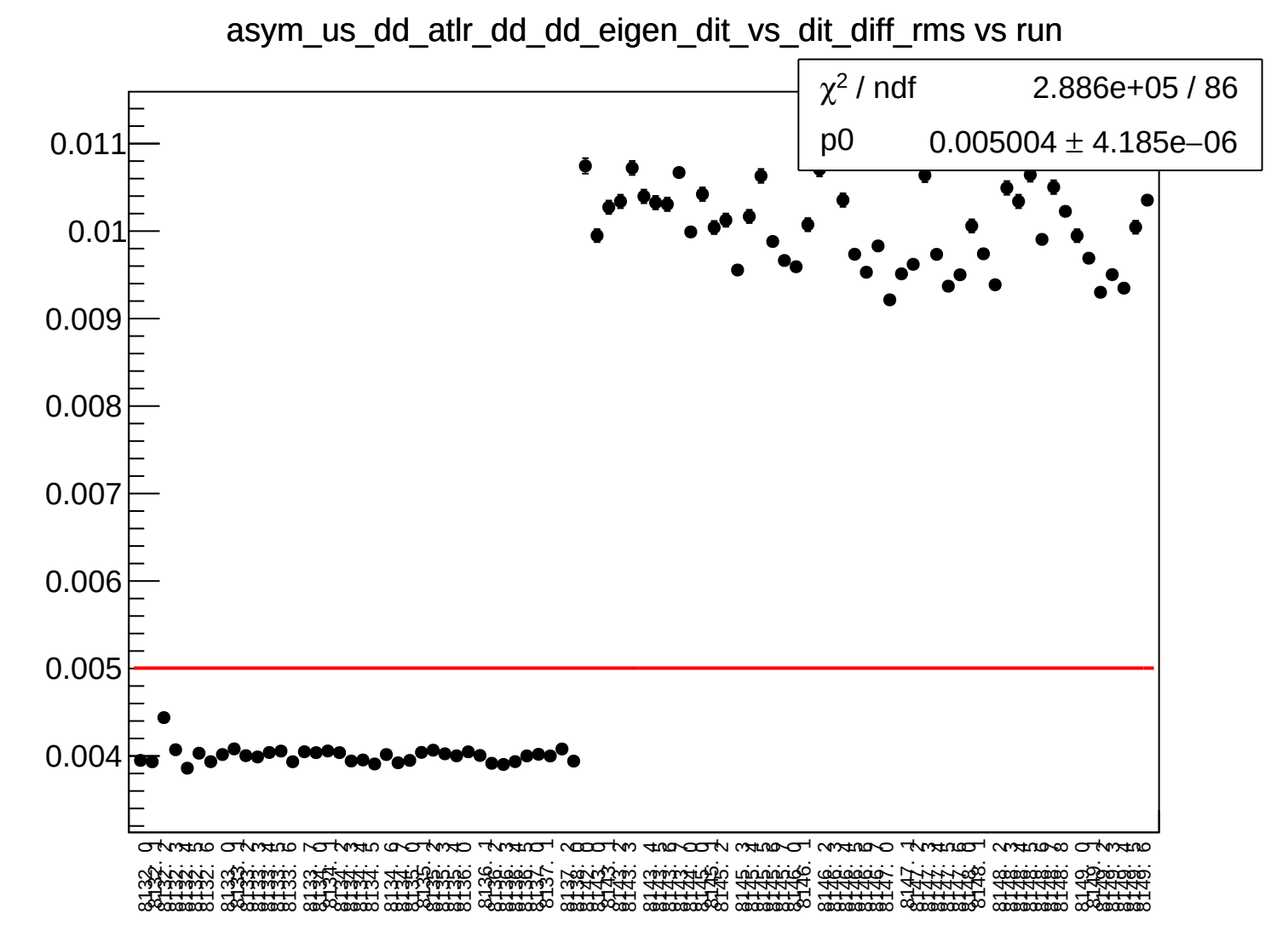

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.003e+05 / 86
p0 24.19 ± 0.02031
140
120
100
80
60
40
20

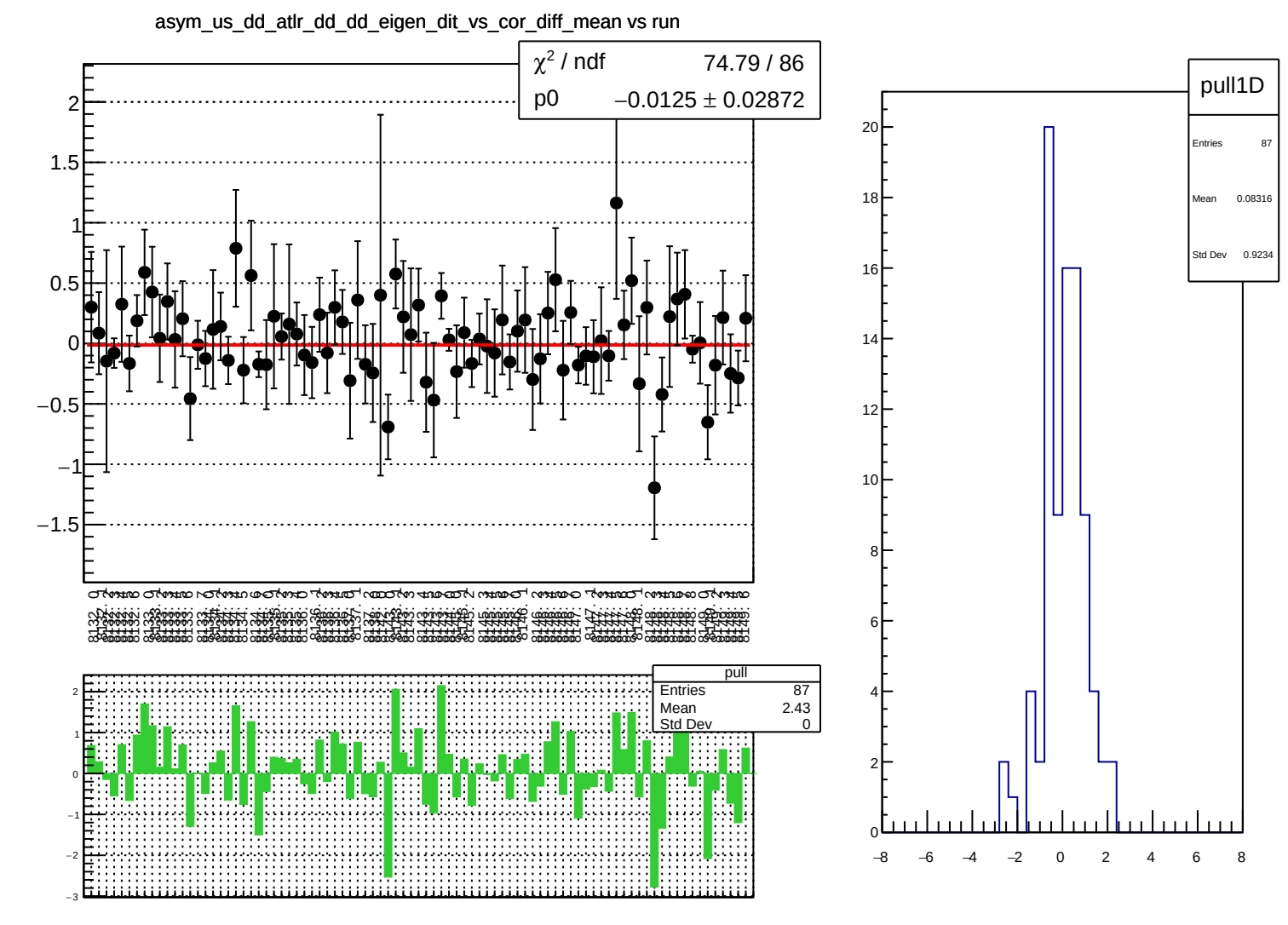

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.79 / 86
p0 −0.01252 ± 0.02872
pull
Entries 87
Mean 2.445
Std Dev 0
pull1D
Entries 87
Mean 0.08319
Std Dev 0.9234

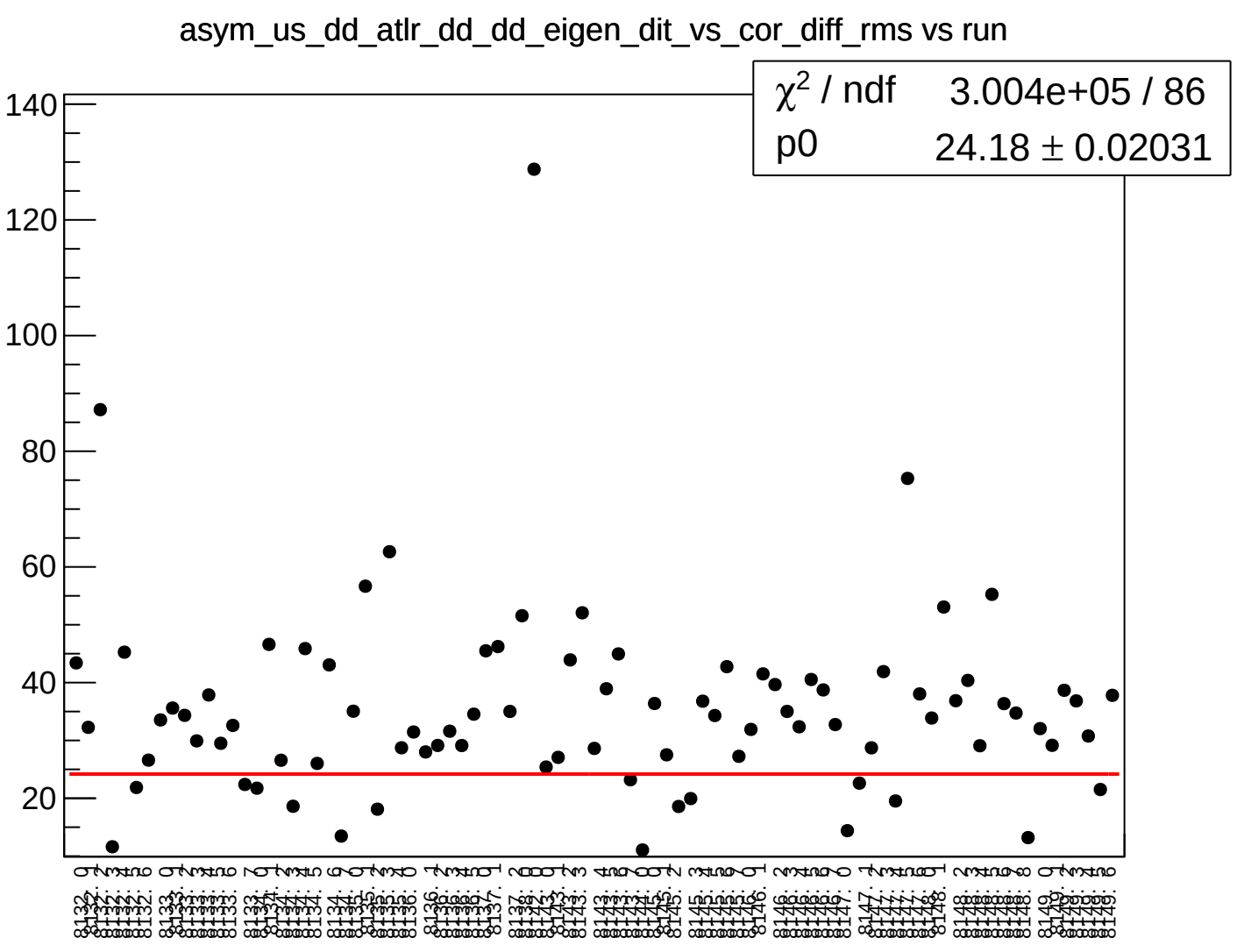

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.003e+05 / 86
p0 24.19 ± 0.02031
140
120
100
80
60
40
20

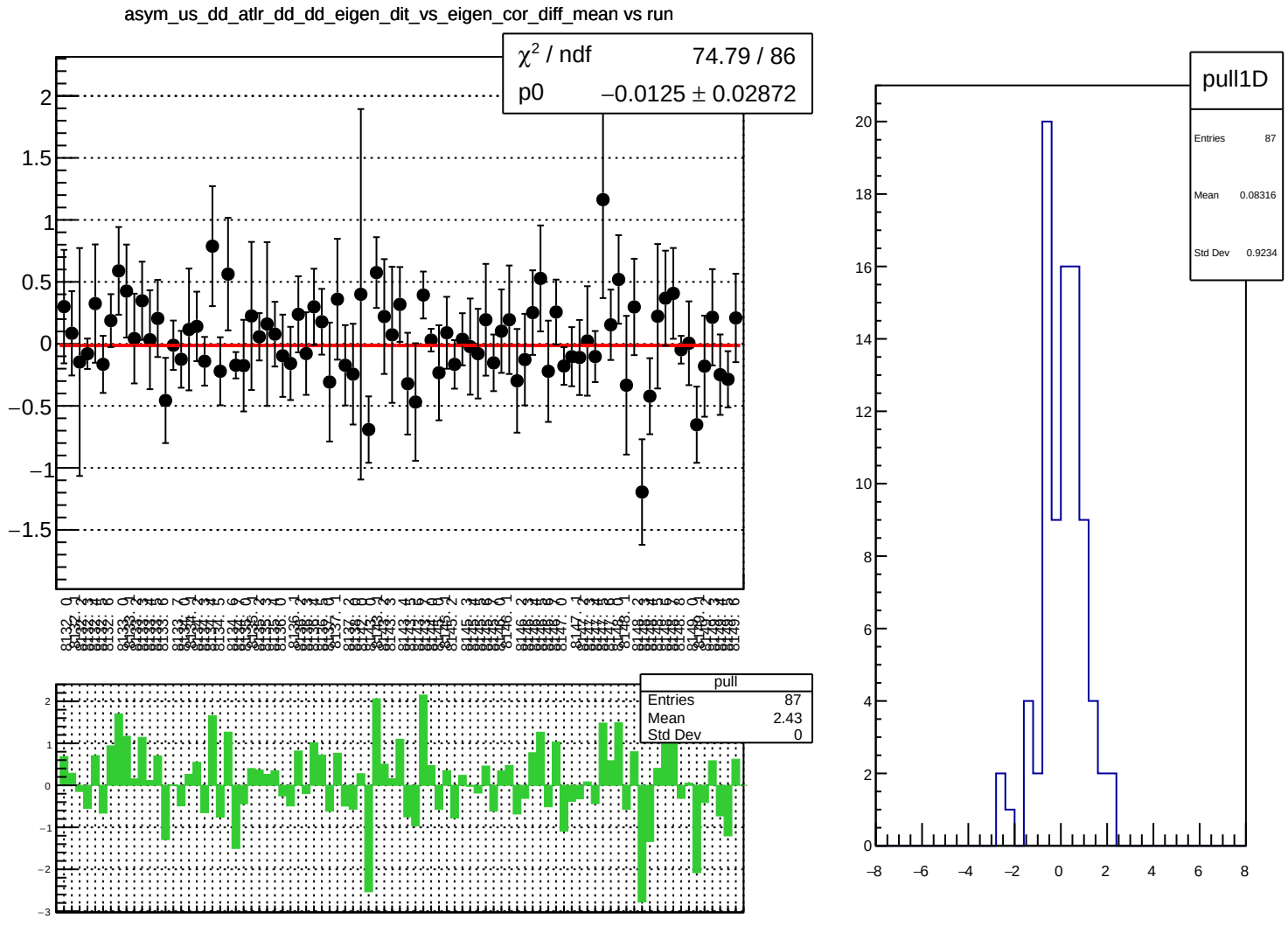

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.45 / 86
p0 2.848e−06 ± 5.918e−06
pull
Entries 87
Mean 12.55
Std Dev 20.54

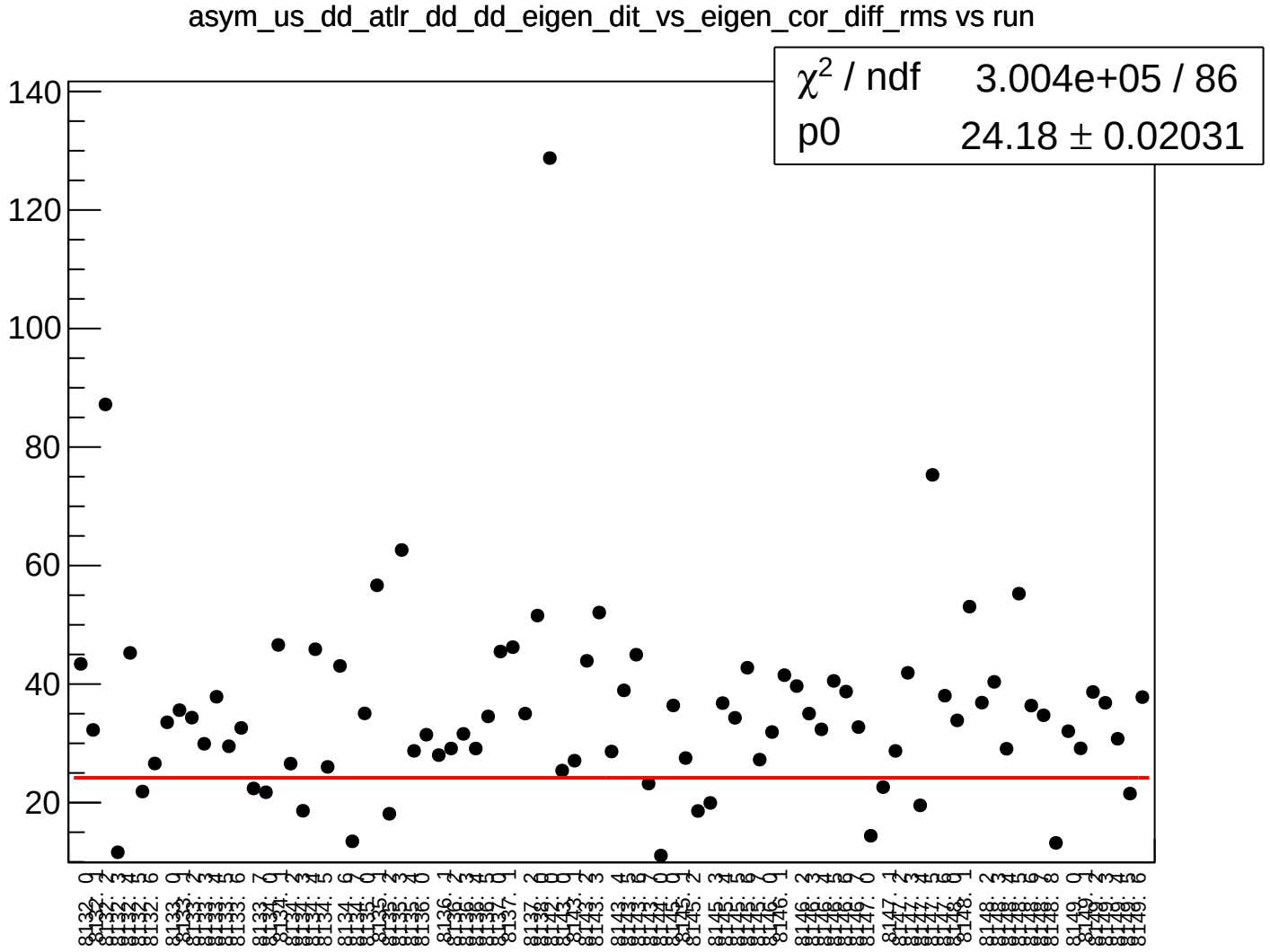

pull1D
Entries 87
Mean −0.01728
Std Dev 1.047

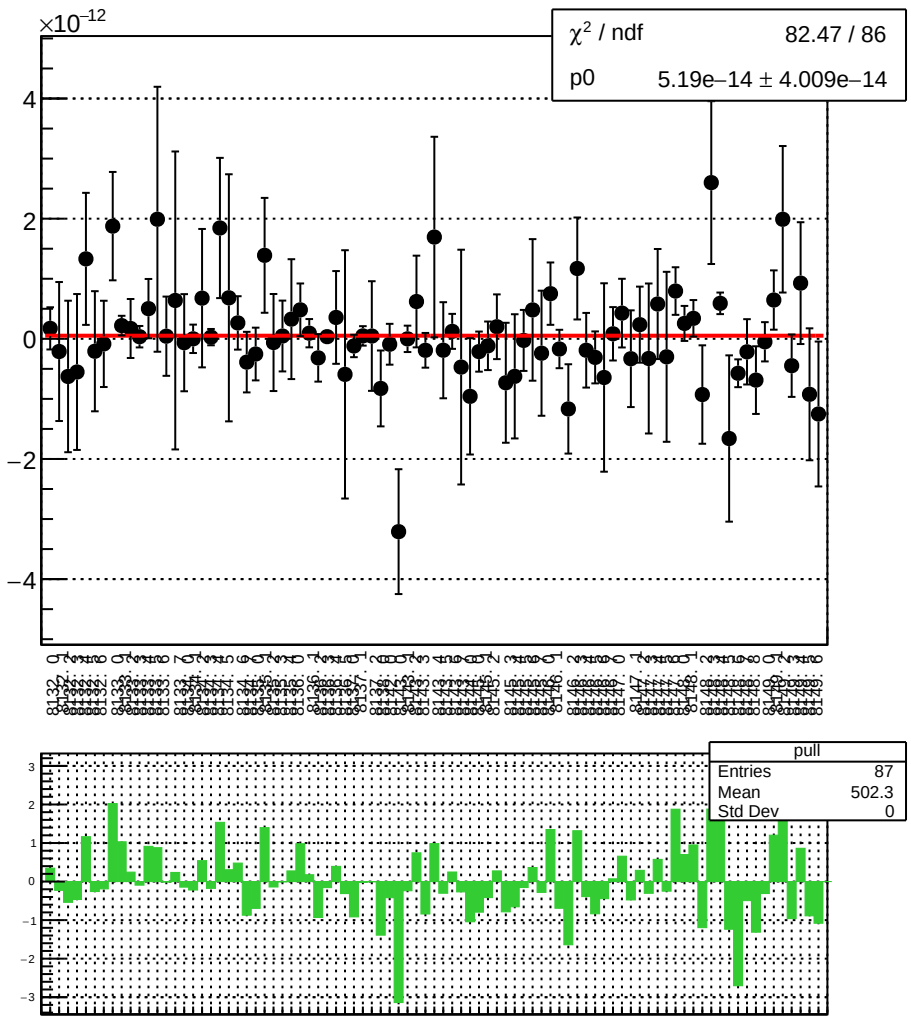

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.886e+05 / 86
p0 0.005004 ± 4.185e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004

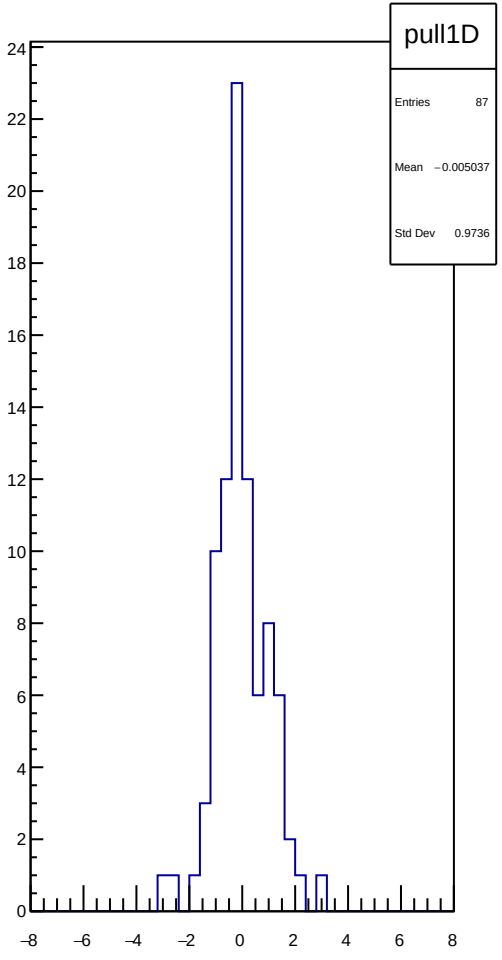

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.79 / 86
p0 −0.0125 ± 0.02872
pull
Entries 87
Mean 2.43
Std Dev 0
pull1D
Entries 87
Mean 0.08316
Std Dev 0.9234

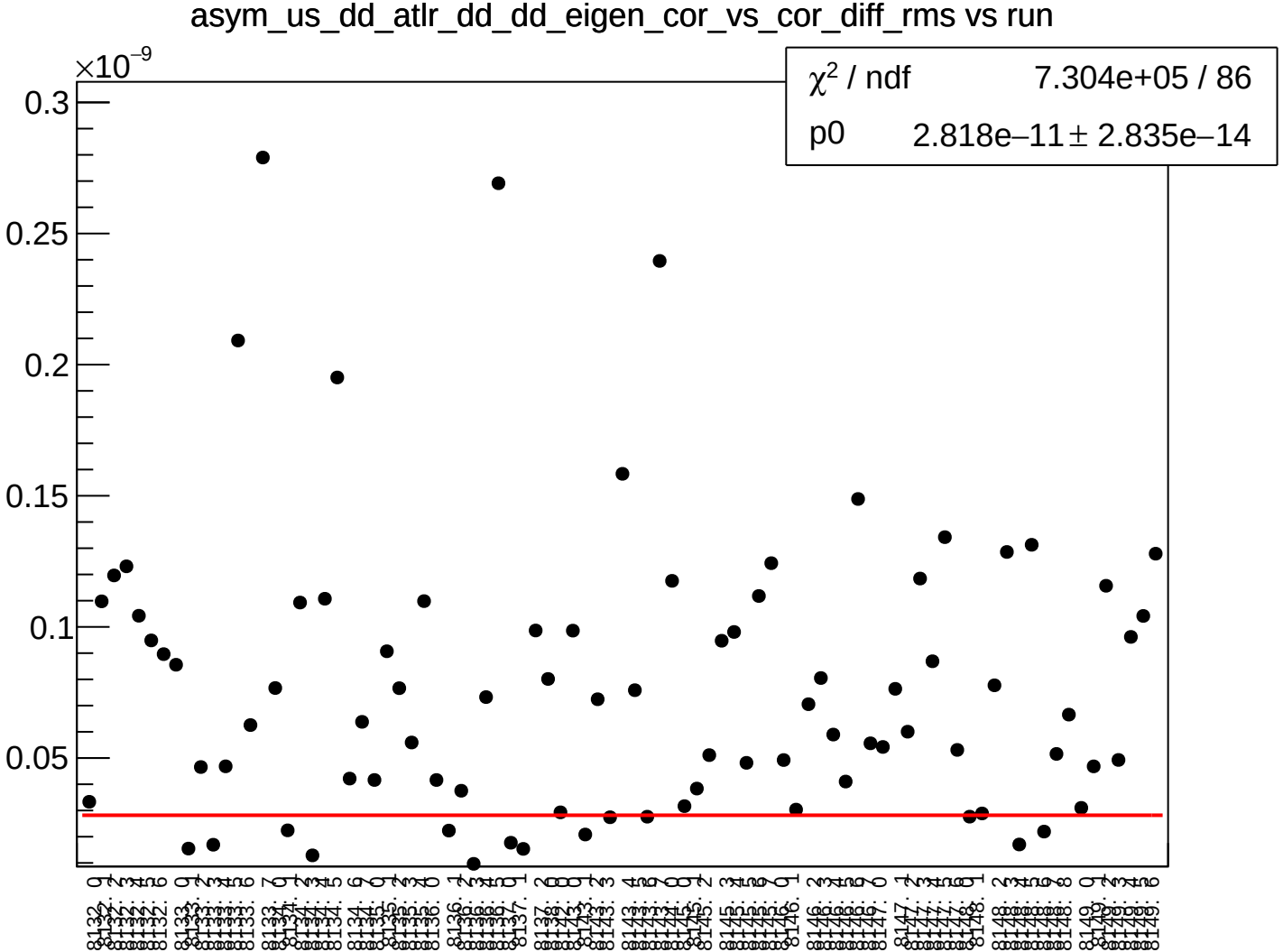

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.004e+05 / 86
p0 24.18 ± 0.02031
140
120
100
80
60
40
20

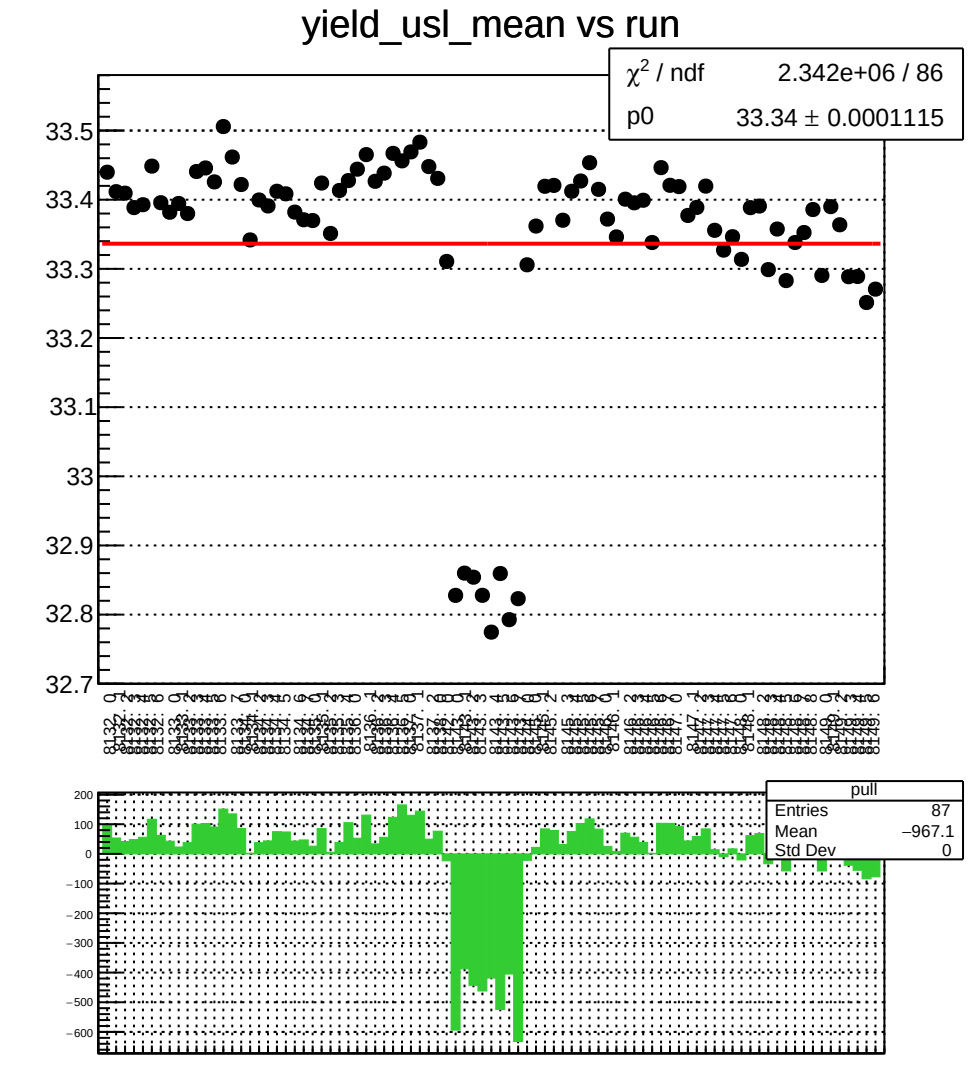

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.79 / 86
p0 −0.0125 ± 0.02872
pull
Entries 87
Mean 2.43
Std Dev 0
pull1D
Entries 87
Mean 0.08316
Std Dev 0.9234

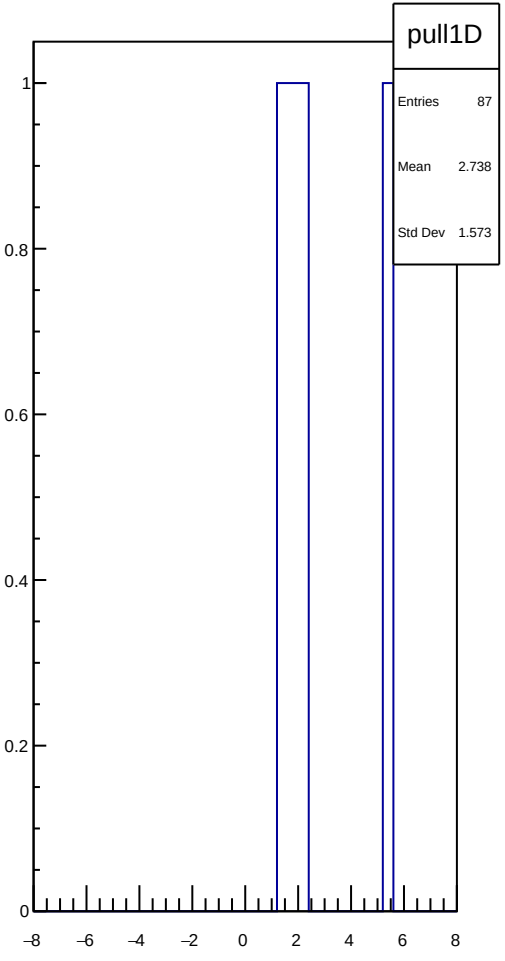

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.004e+05 / 86
p0 24.18 ± 0.02031
140
120
100
80
60
40
20

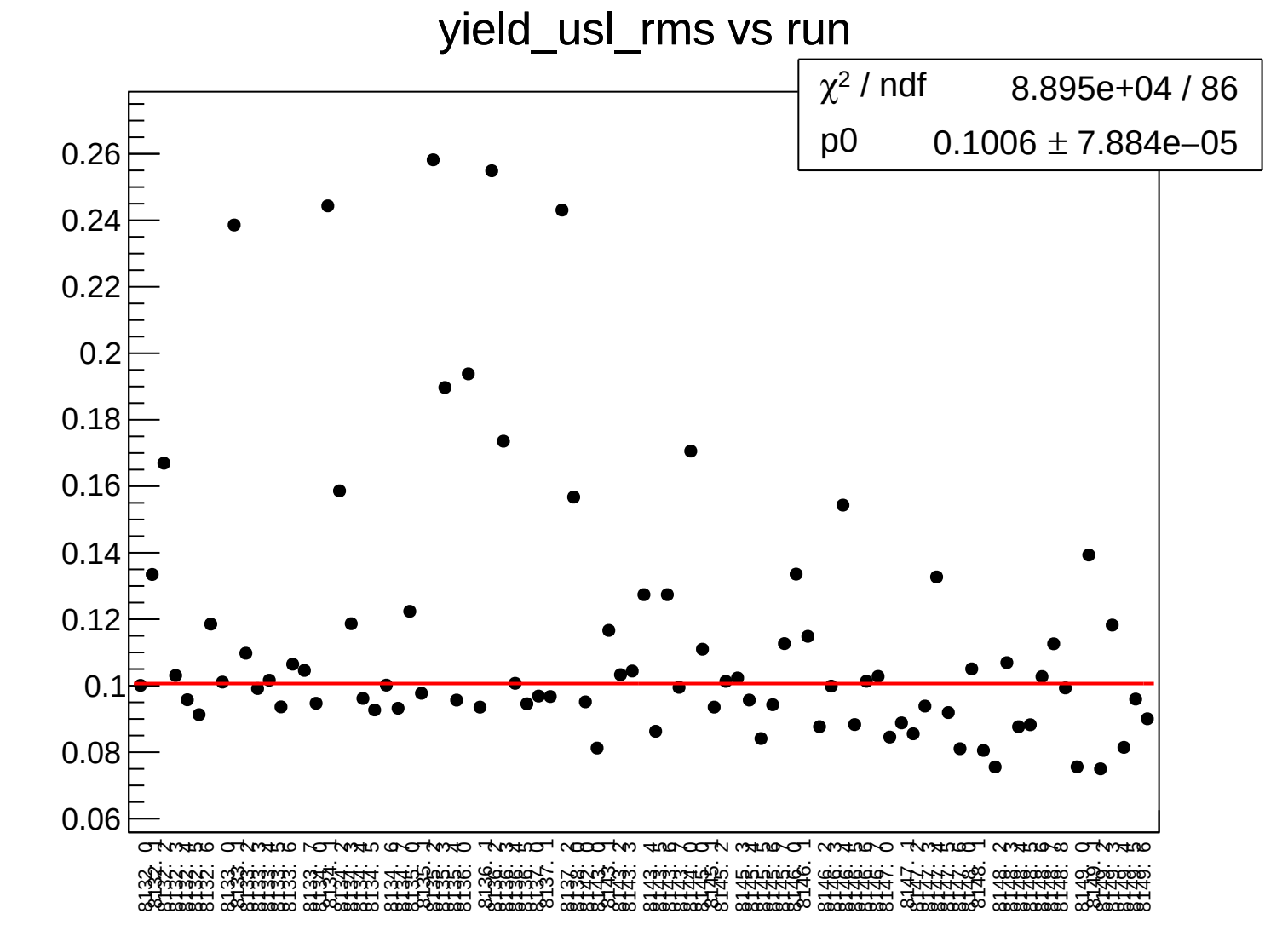

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.47 / 86
p0 5.19e−14 ± 4.009e−14
pull
Entries 87
Mean 502.3
Std Dev 0

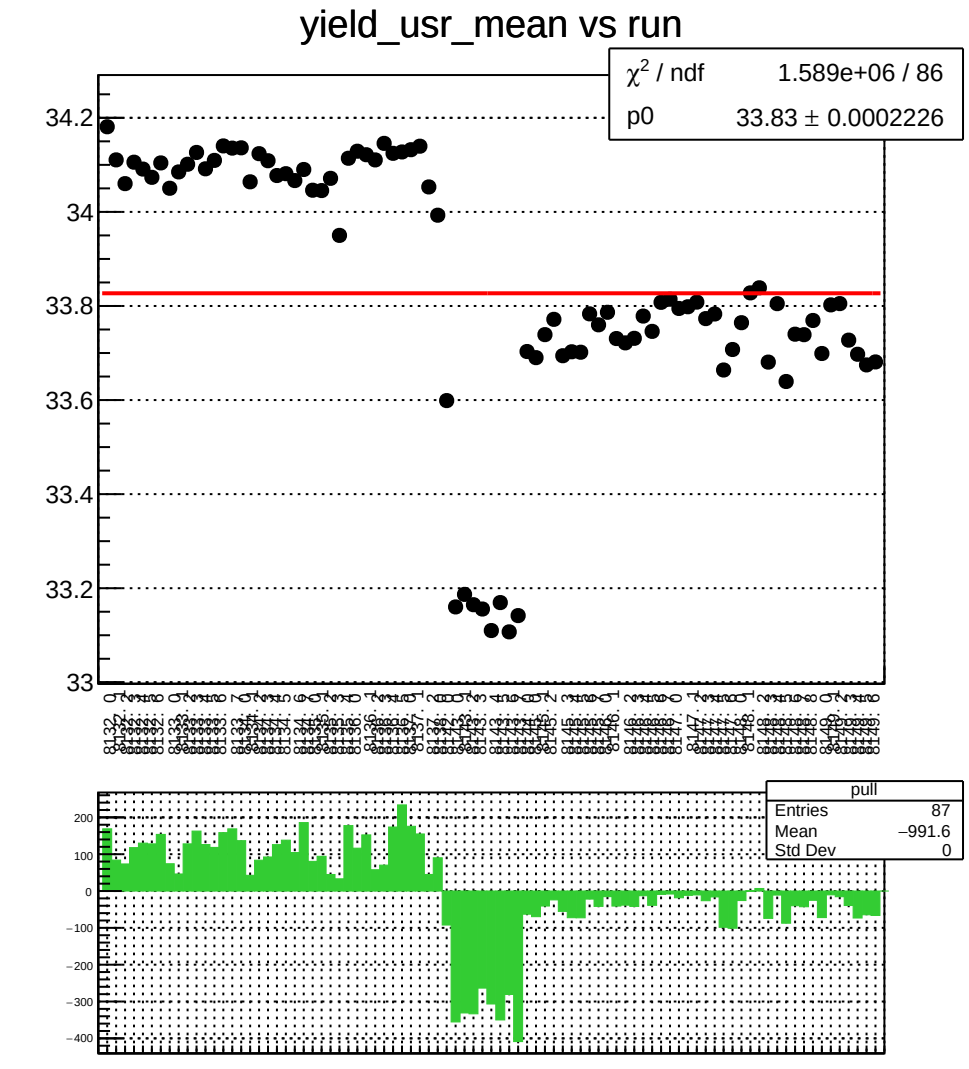

pull1D
Entries 87
Mean −0.005037
Std Dev 0.9736

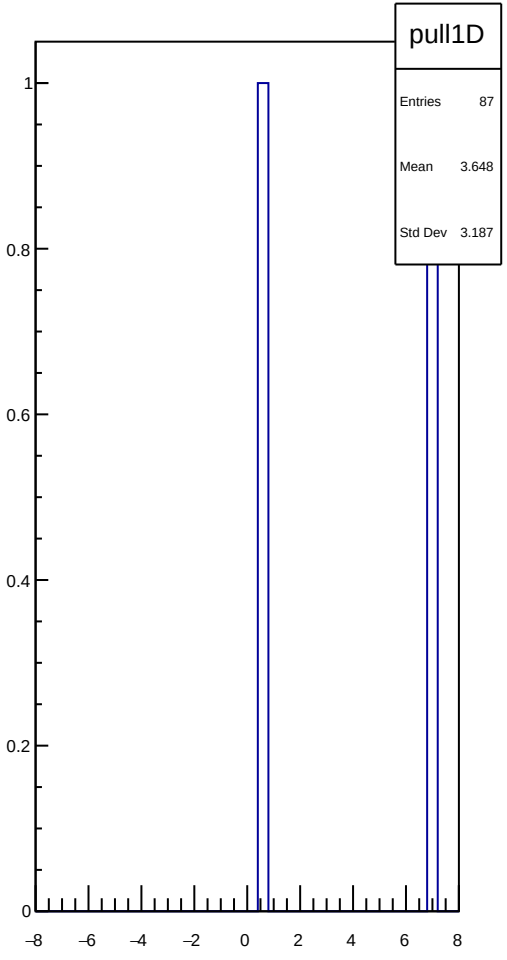

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.3
0.25
0.2
0.15
0.1
0.05
χ² / ndf 7.304e+05 / 86
p0 2.818e−11 ± 2.835e−14

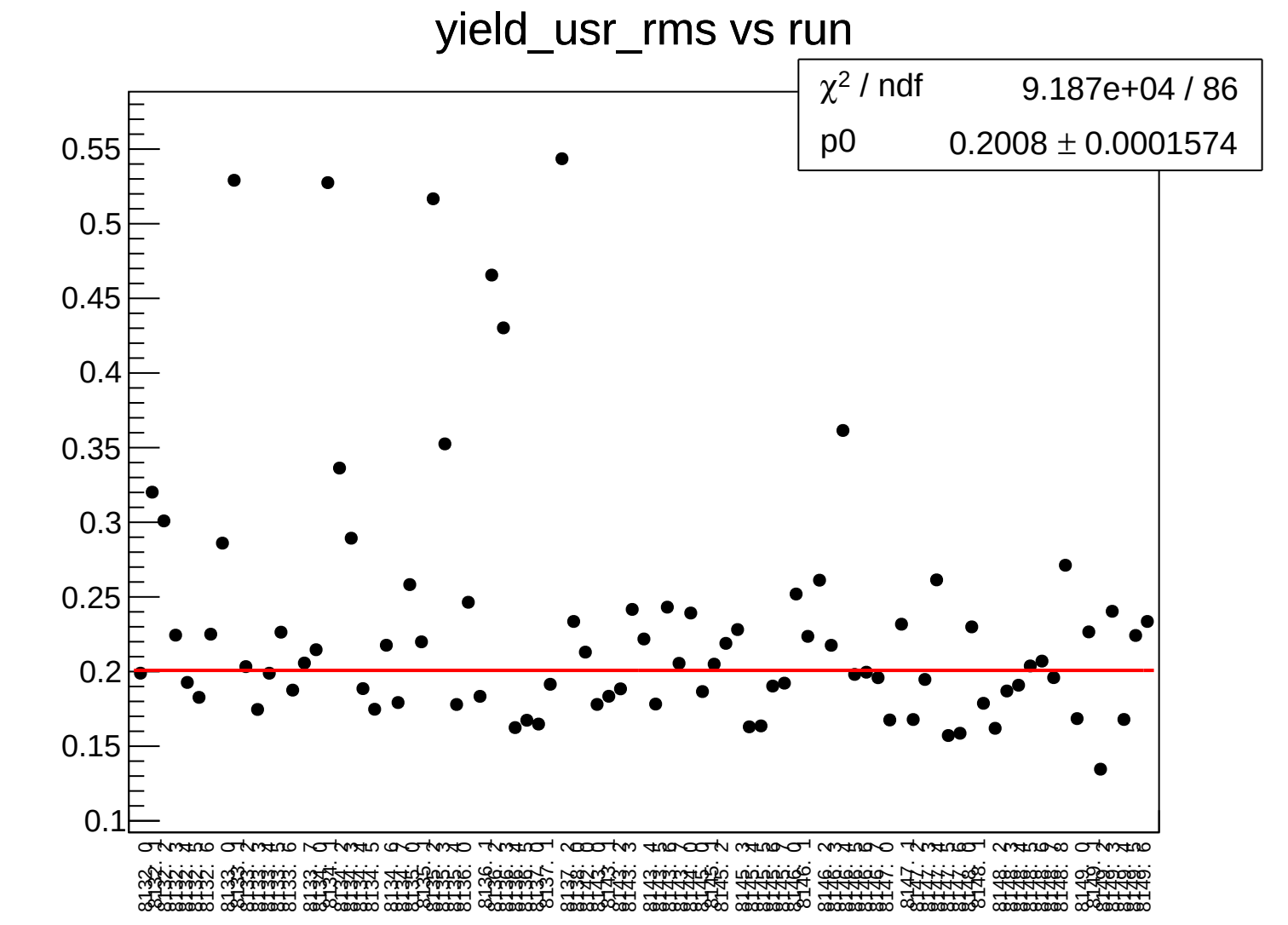

yield_usl_mean vs run
χ² / ndf 2.342e+06 / 86
p0 33.34 ± 0.0001115
33.5
33.4
33.3
33.2
33.1
33
32.9
32.8
32.7
pull
Entries 87
Mean −967.1
Std Dev 0
200
100
0
−100
−200
−300
−400
−500
−600

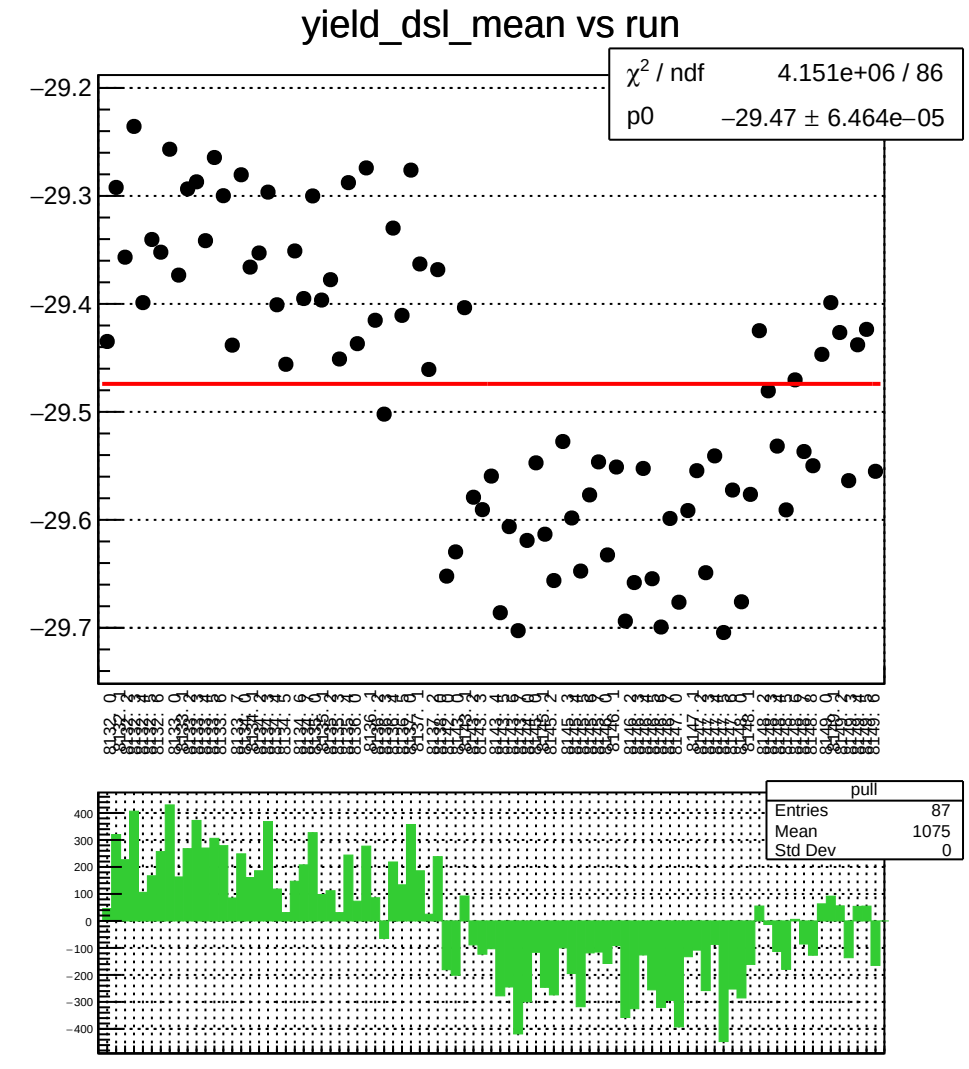

pull1D
Entries 87
Mean 2.738
Std Dev 1.573
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

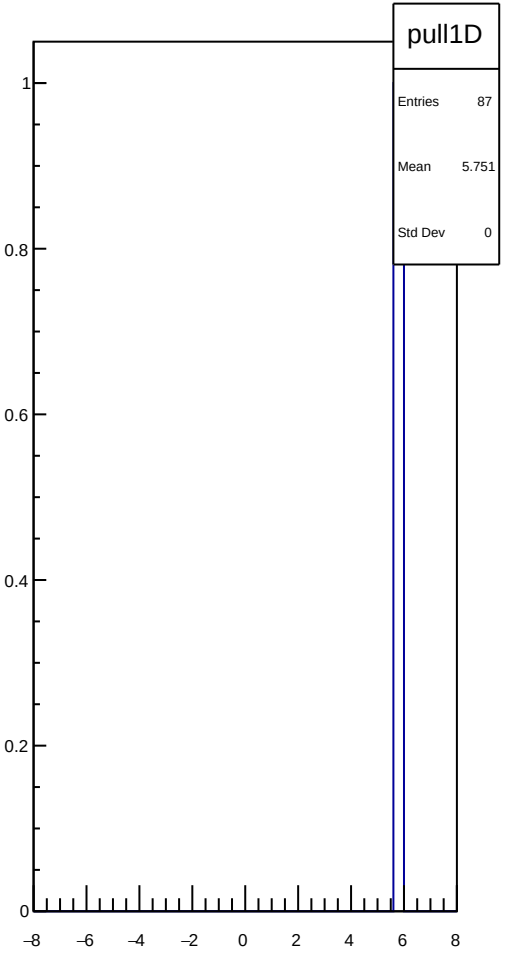

yield_usl_rms vs run
χ² / ndf 8.895e+04 / 86
p0 0.1006 ± 7.884e−05
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06

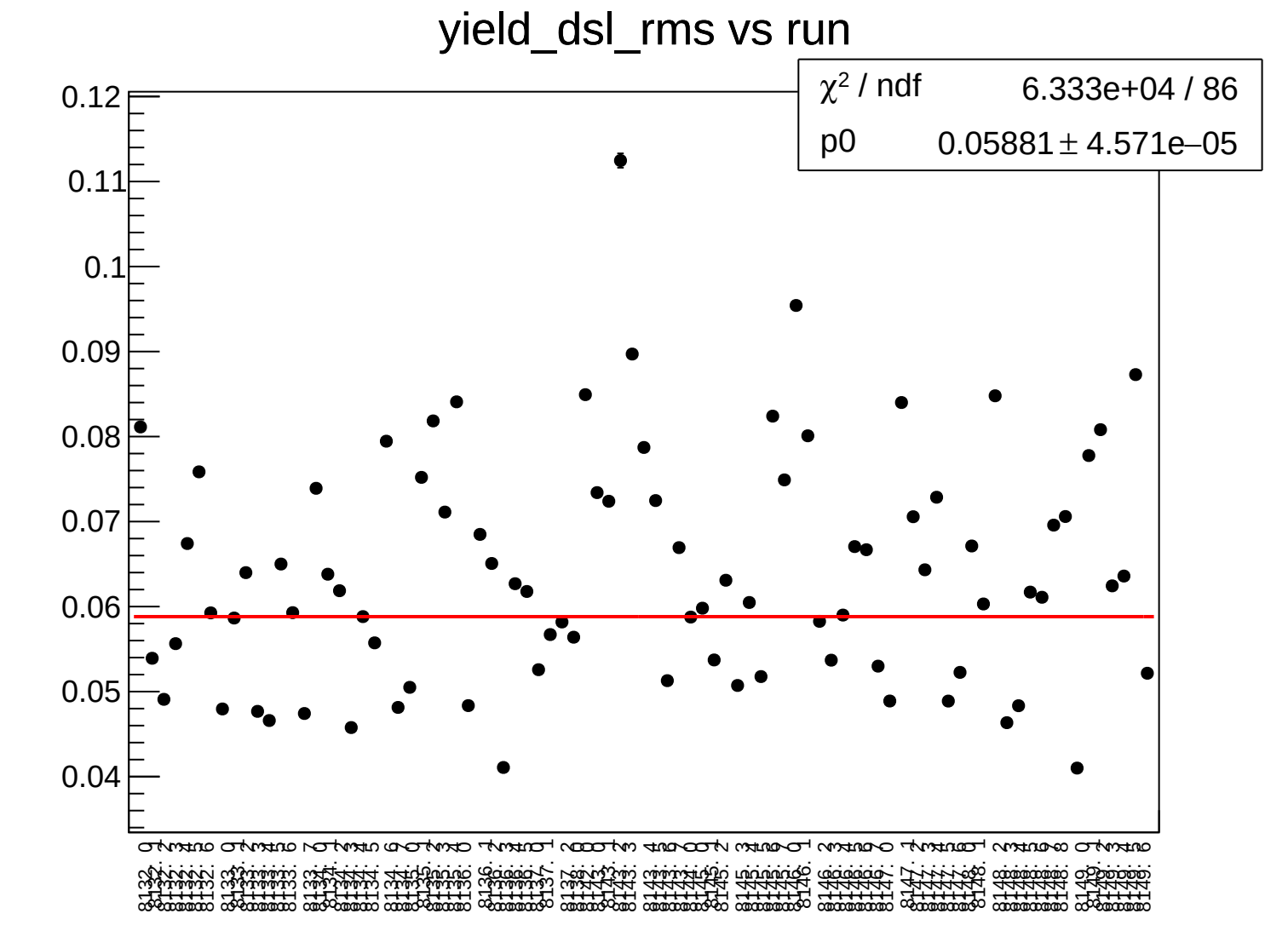

yield_usr_mean vs run
χ² / ndf 1.589e+06 / 86
p0 33.83 ± 0.0002226
34.2
34
33.8
33.6
33.4
33.2
33
pull
Entries 87
Mean −991.6
Std Dev 0
200
100
0
−100
−200
−300
−400

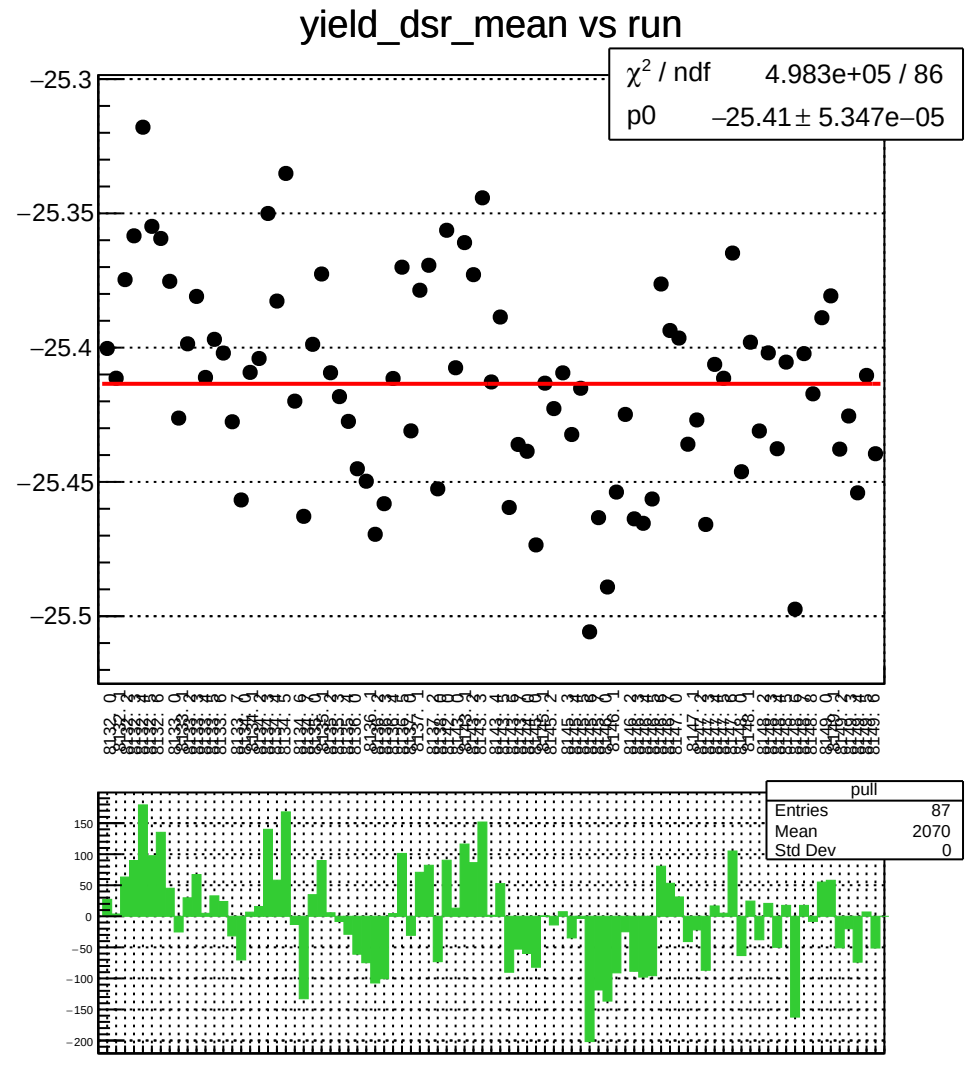

pull1D
Entries 87
Mean 3.648
Std Dev 3.187
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

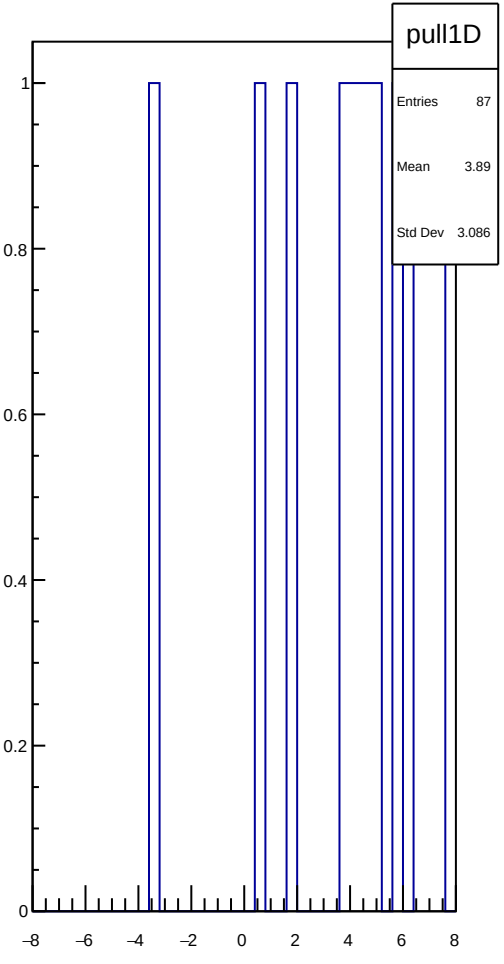

yield_usr_rms vs run
χ² / ndf 9.187e+04 / 86
p0 0.2008 ± 0.0001574
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1

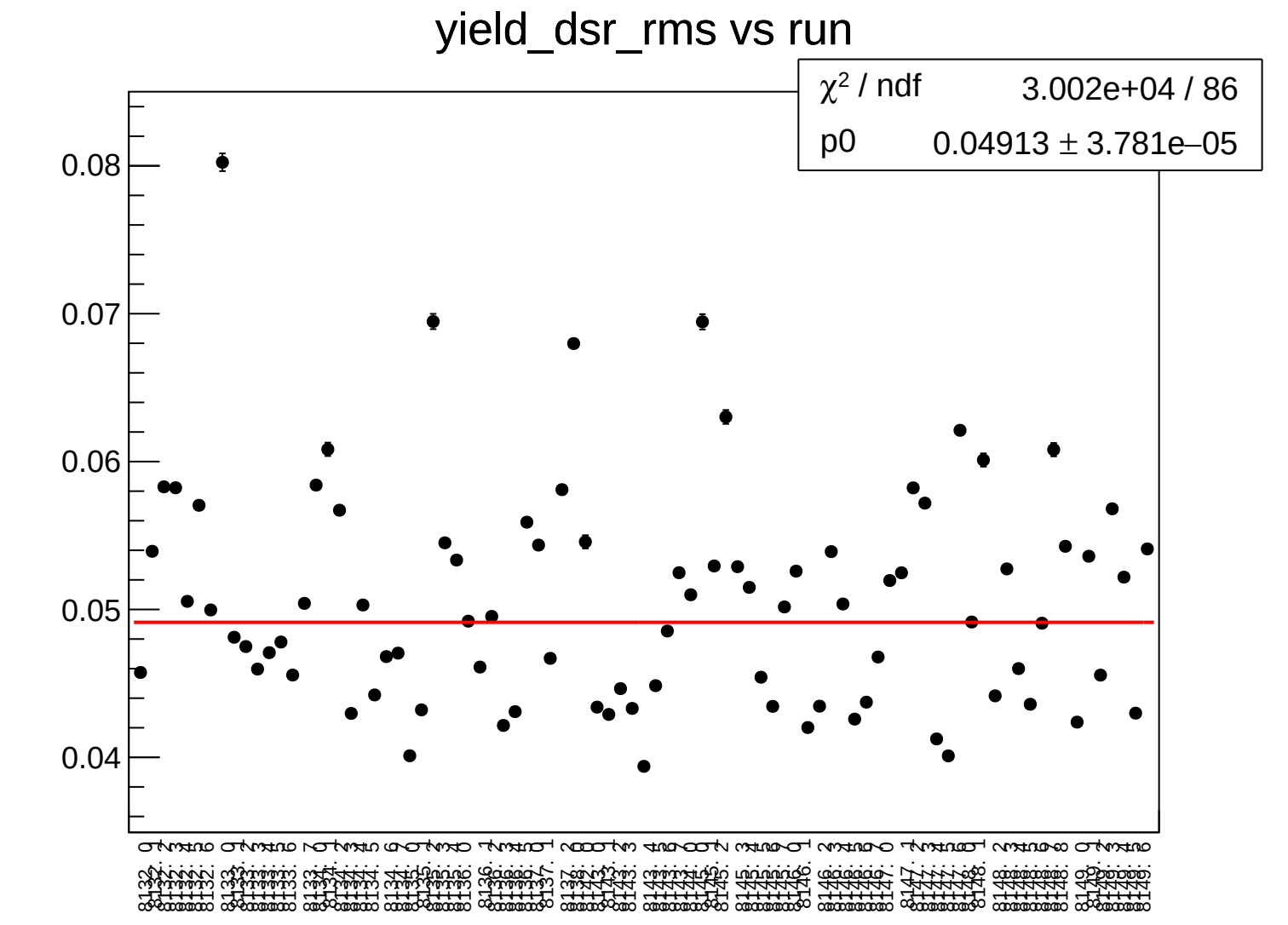

yield_dsl_mean vs run
χ² / ndf 4.151e+06 / 86
p0 −29.47 ± 6.464e−05
−29.2
−29.3
−29.4
−29.5
−29.6
−29.7
pull
Entries 87
Mean 1075
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400

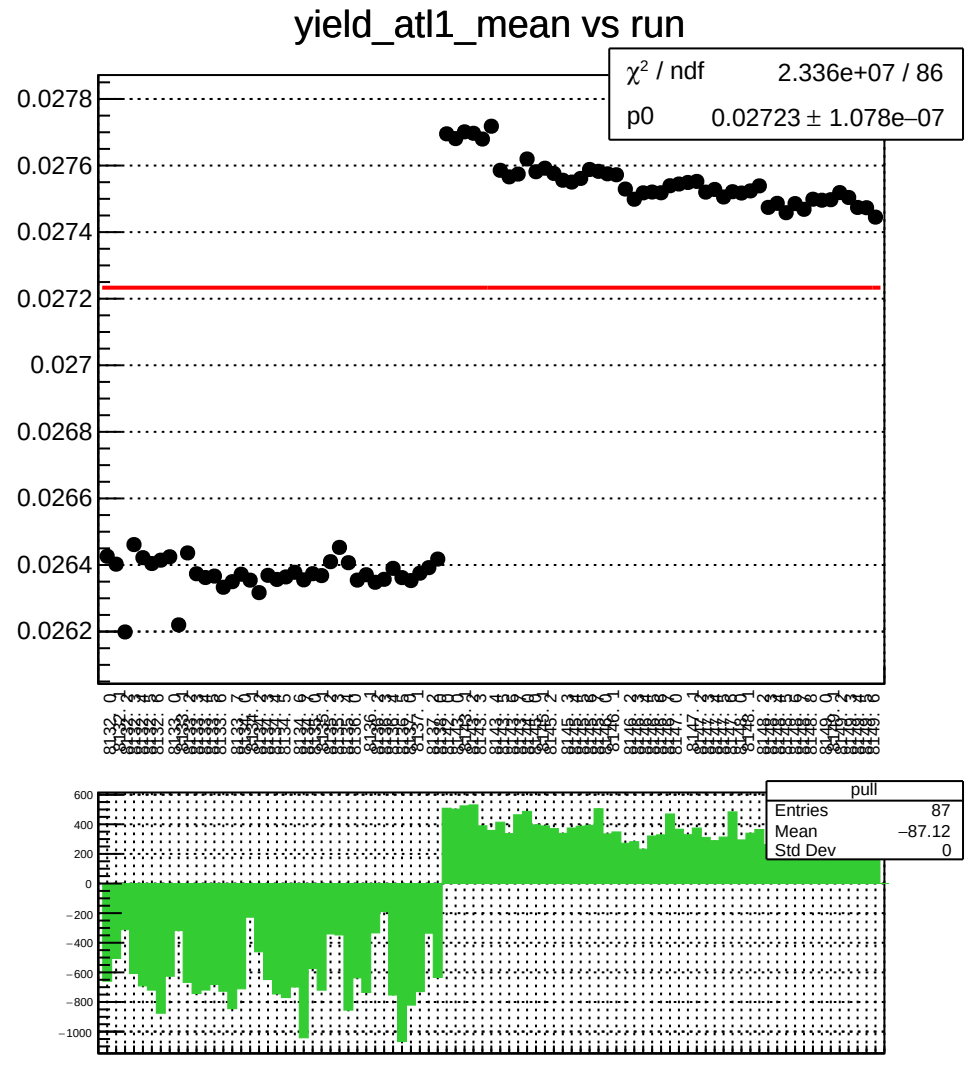

pull1D
Entries 87
Mean 5.751
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

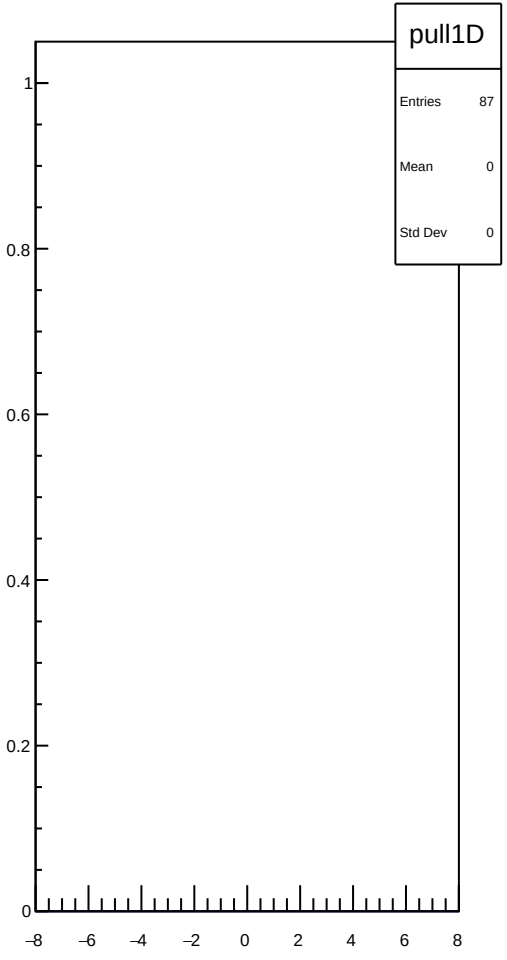

yield_dsl_rms vs run
χ² / ndf 6.333e+04 / 86
p0 0.05881 ± 4.571e–05
0.12
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04

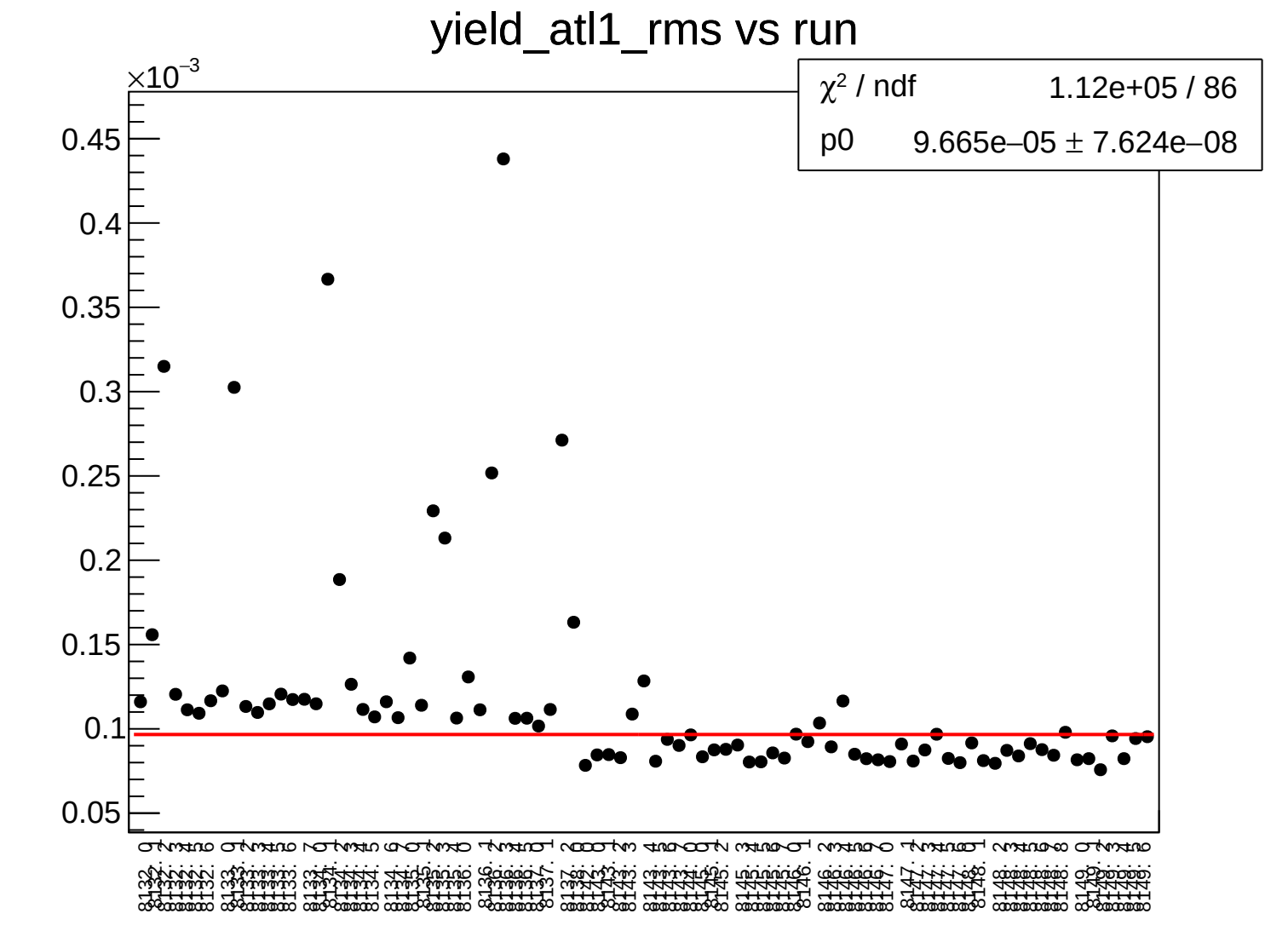

yield_dsr_mean vs run
χ² / ndf 4.983e+05 / 86
p0 −25.41 ± 5.347e−05
−25.3
−25.35
−25.4
−25.45
−25.5
pull
Entries 87
Mean 2070
Std Dev 0
150
100
50
0
−50
−100
−150
−200

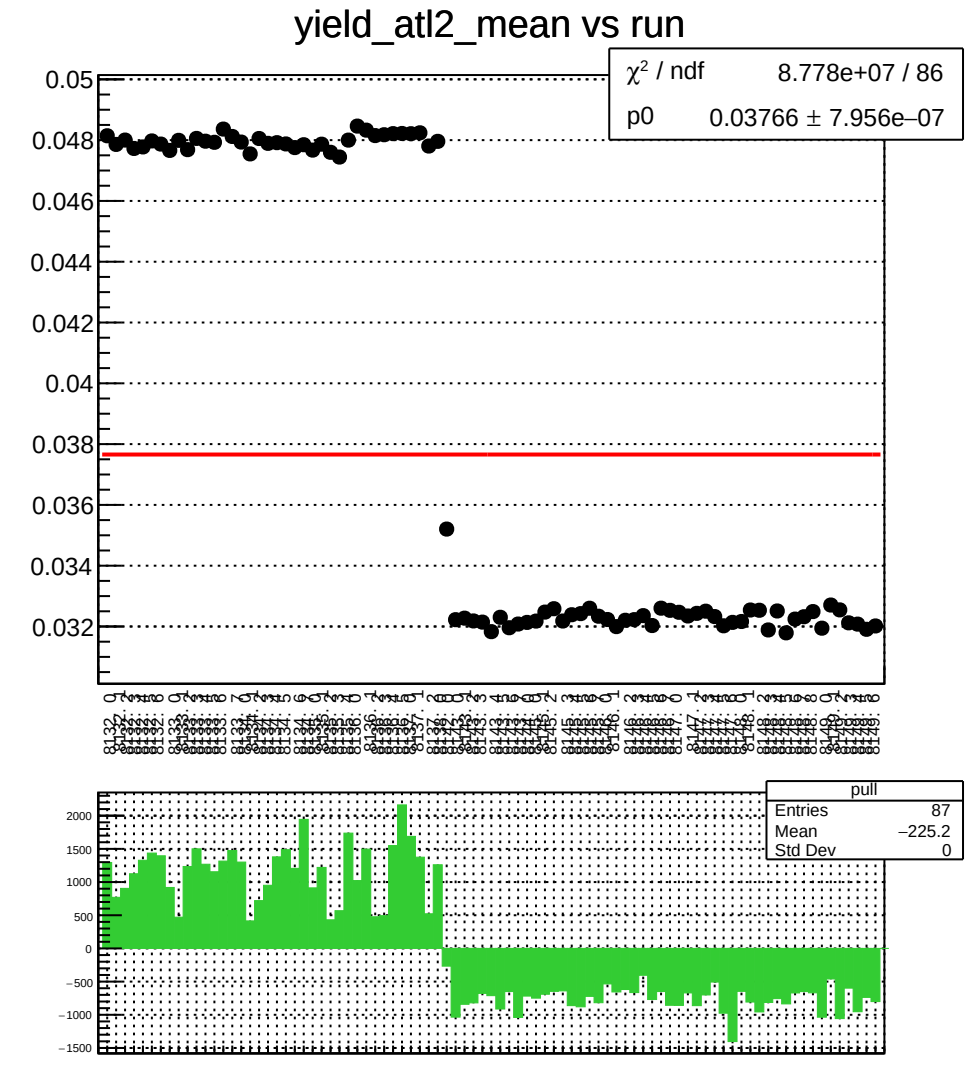

pull1D
Entries 87
Mean 3.89
Std Dev 3.086
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

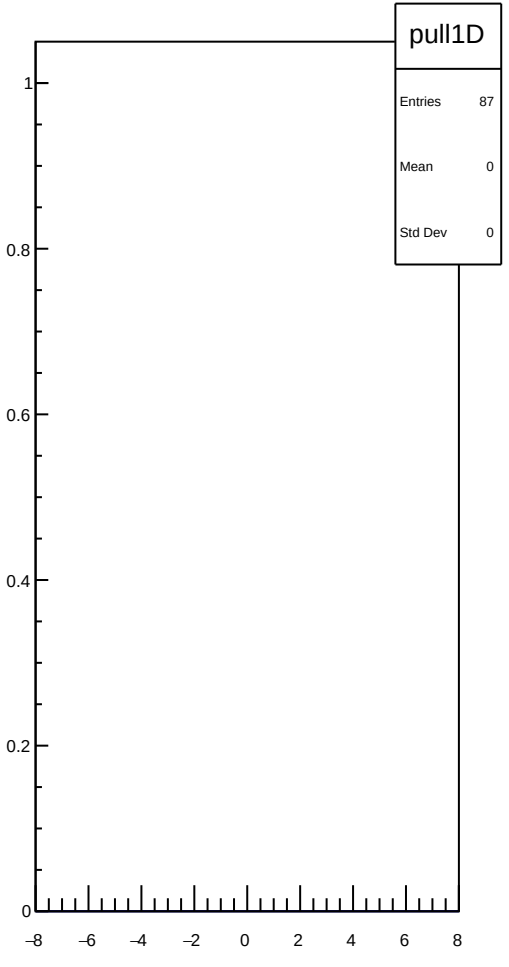

yield_dsr_rms vs run
χ² / ndf 3.002e+04 / 86
p0 0.04913 ± 3.781e−05
0.08
0.07
0.06
0.05
0.04

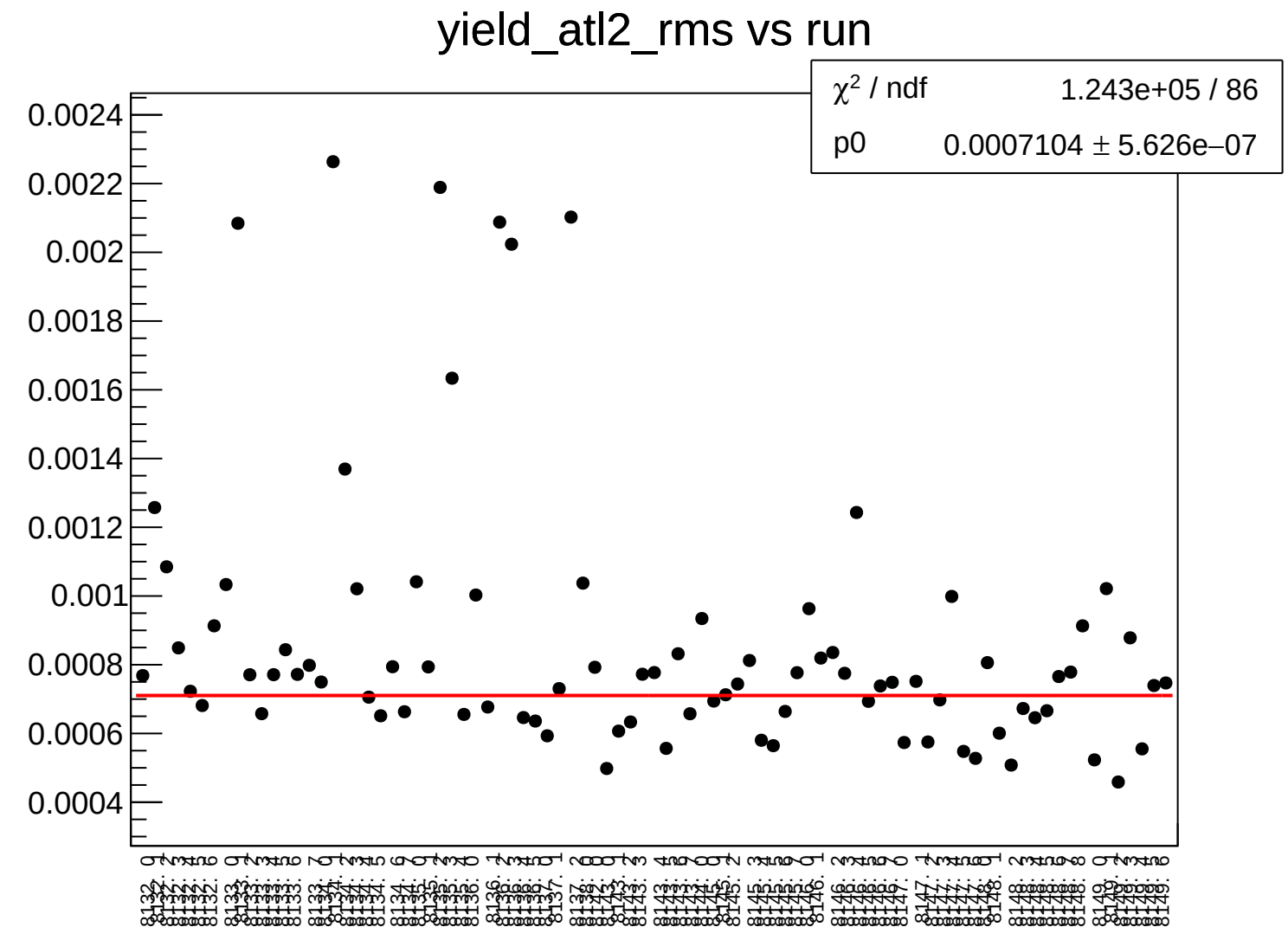

yield_atl1_mean vs run
χ² / ndf 2.336e+07 / 86
p0 0.02723 ± 1.078e–07
0.0278
0.0276
0.0274
0.0272
0.027
0.0268
0.0266
0.0264
0.0262
pull
Entries 87
Mean –87.12
Std Dev 0
600
400
200
0
–200
–400
–600
–800
–1000

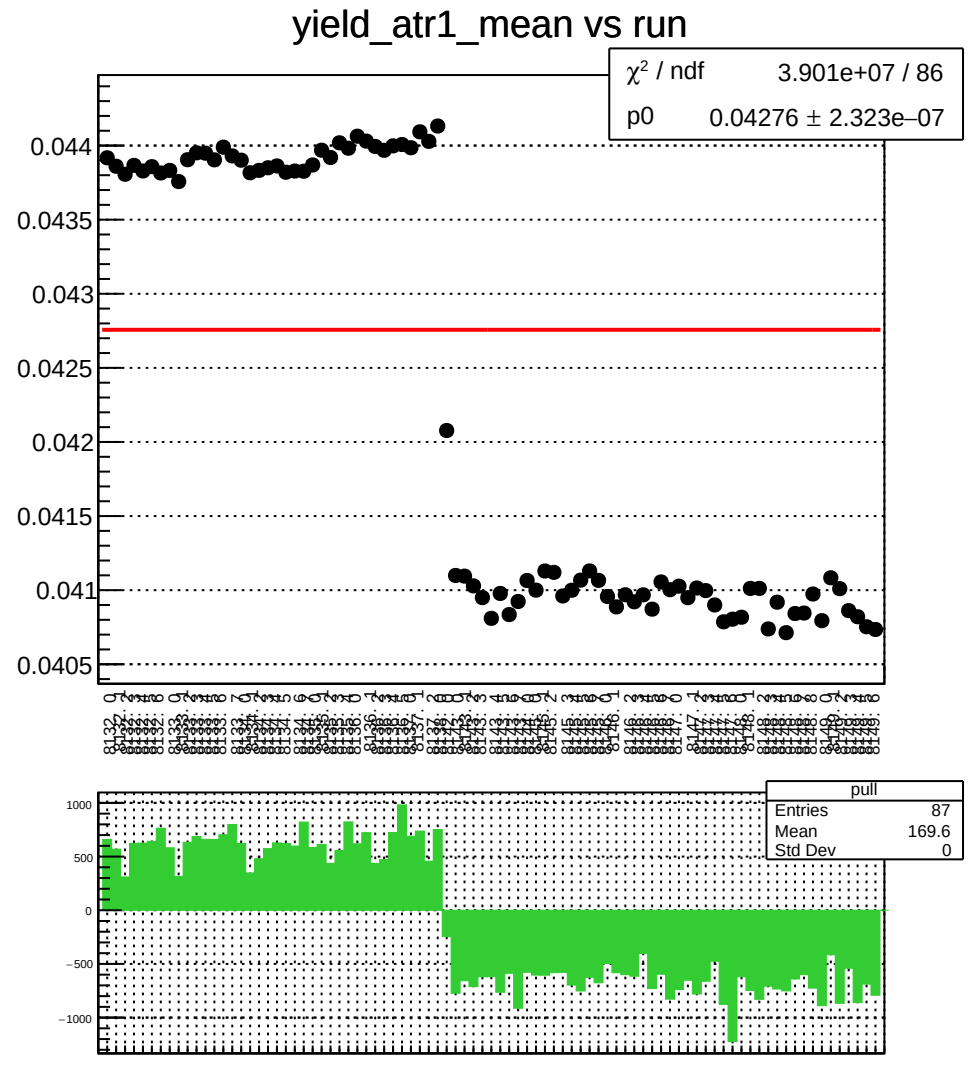

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

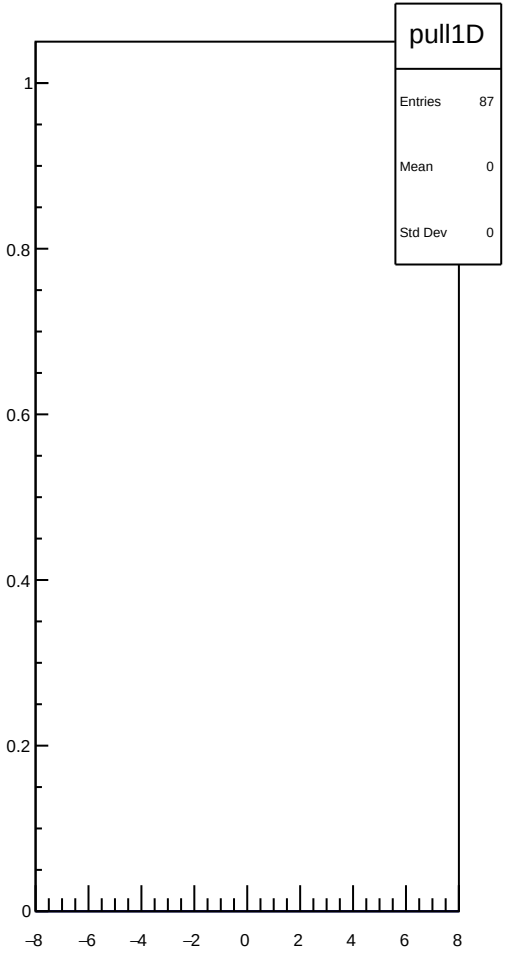

yield_atl1_rms vs run
×10⁻³
χ² / ndf 1.12e+05 / 86
p0 9.665e−05 ± 7.624e−08
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

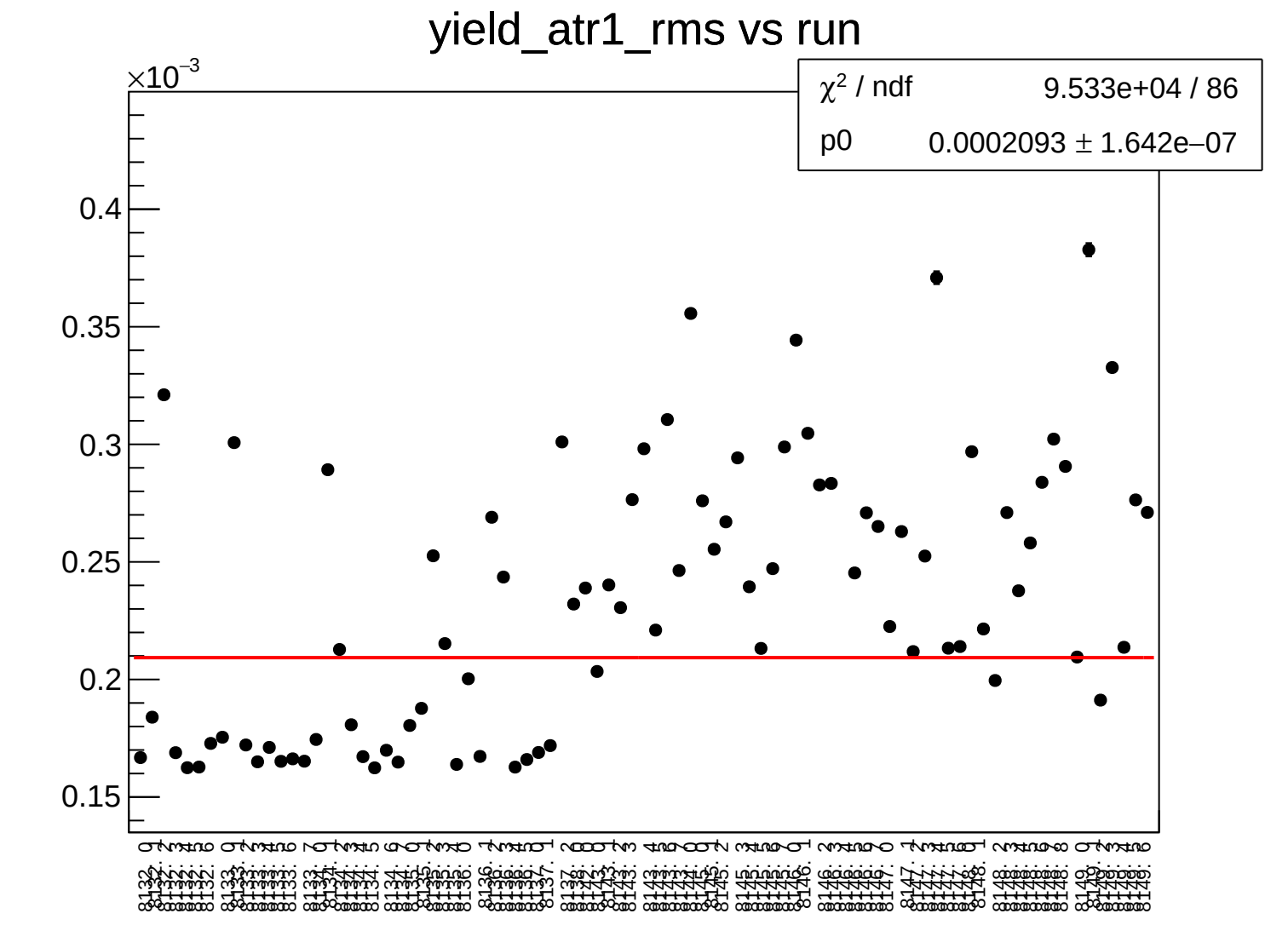

yield_atl2_mean vs run
χ² / ndf 8.778e+07 / 86
p0 0.03766 ± 7.956e−07
0.05
0.048
0.046
0.044
0.042
0.04
0.038
0.036
0.034
0.032
pull
Entries 87
Mean −225.2
Std Dev 0
2000
1500
1000
500
0
−500
−1000
−1500

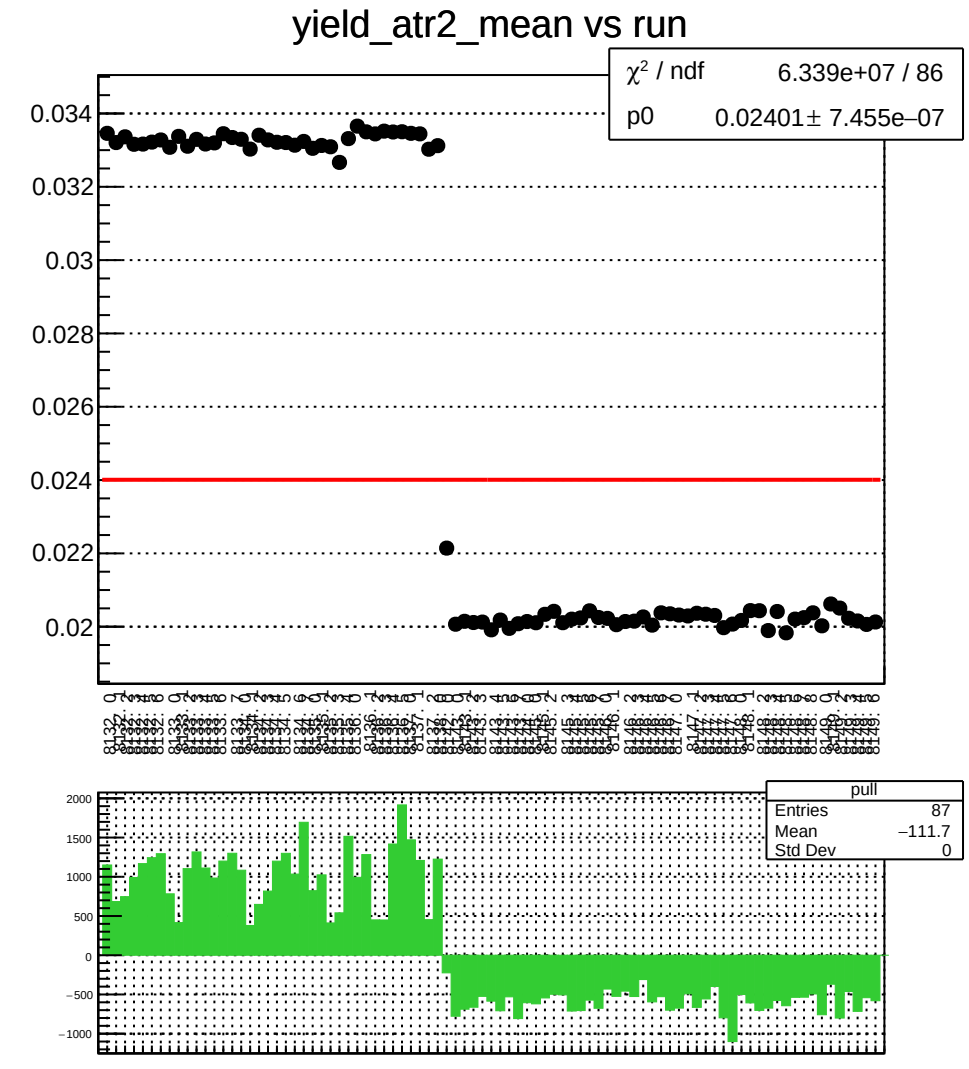

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

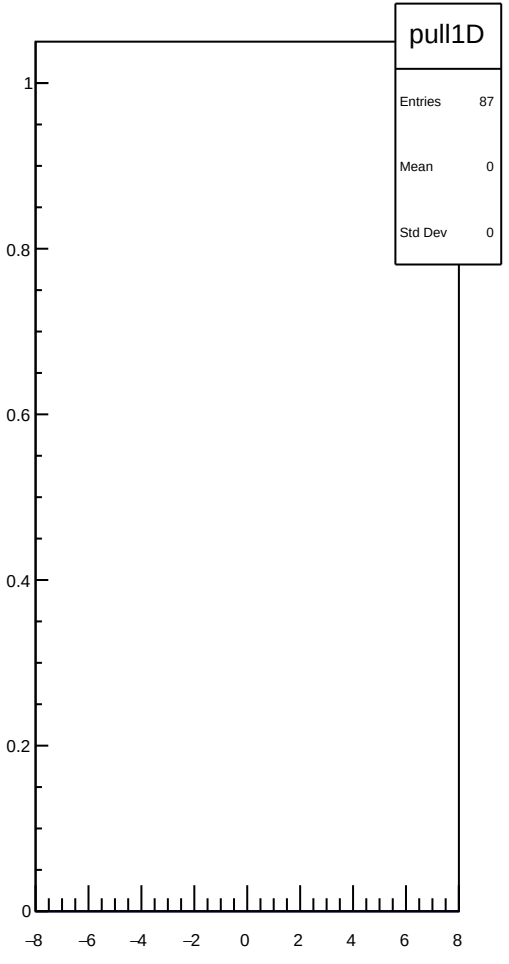

yield_atl2_rms vs run
χ² / ndf 1.243e+05 / 86
p0 0.0007104 ± 5.626e−07
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004

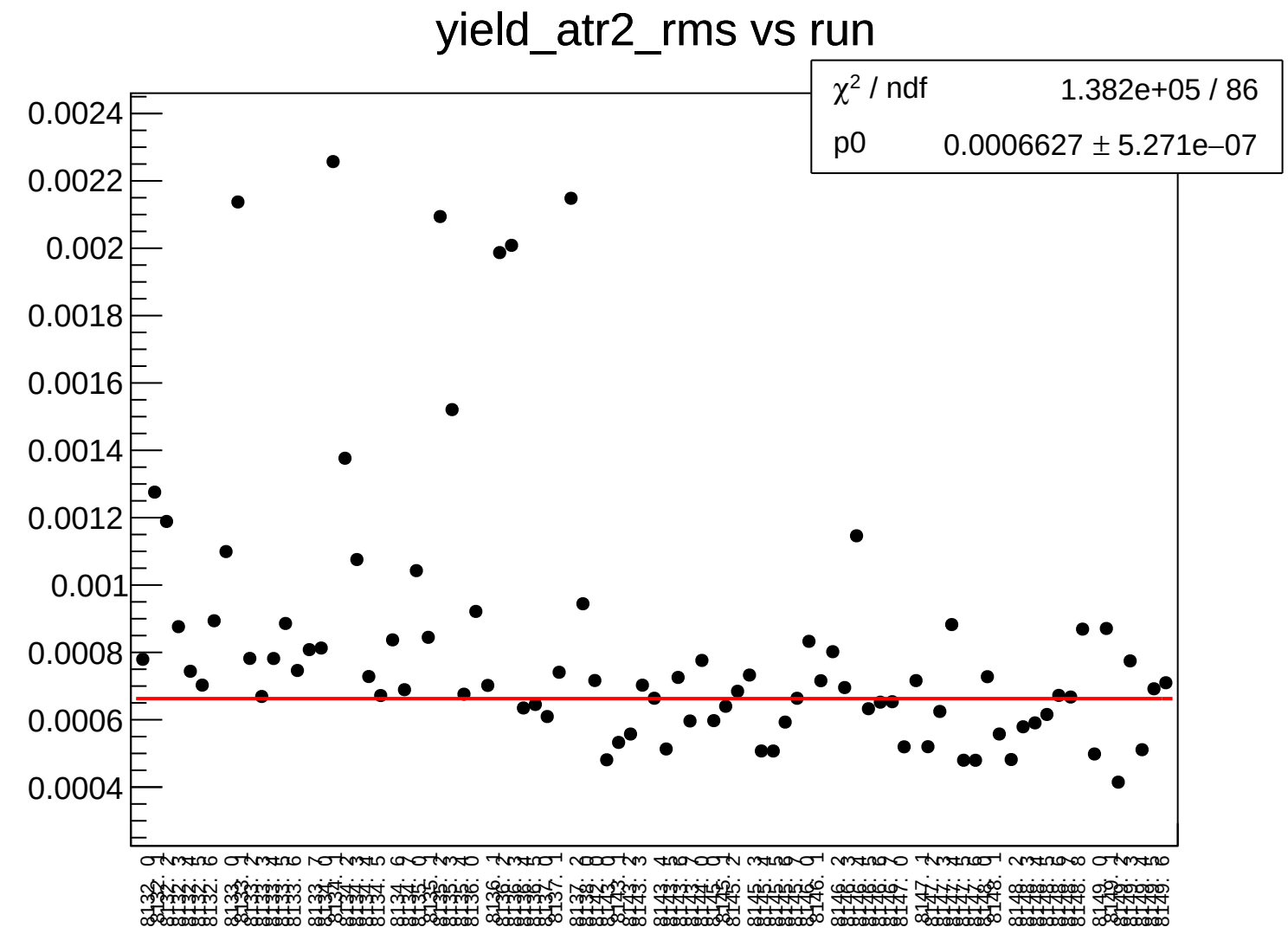

yield_atr1_mean vs run
χ² / ndf 3.901e+07 / 86
p0 0.04276 ± 2.323e−07
0.044
0.0435
0.043
0.0425
0.042
0.0415
0.041
0.0405
pull
Entries 87
Mean 169.6
Std Dev 0
1000
500
0
−500
−1000

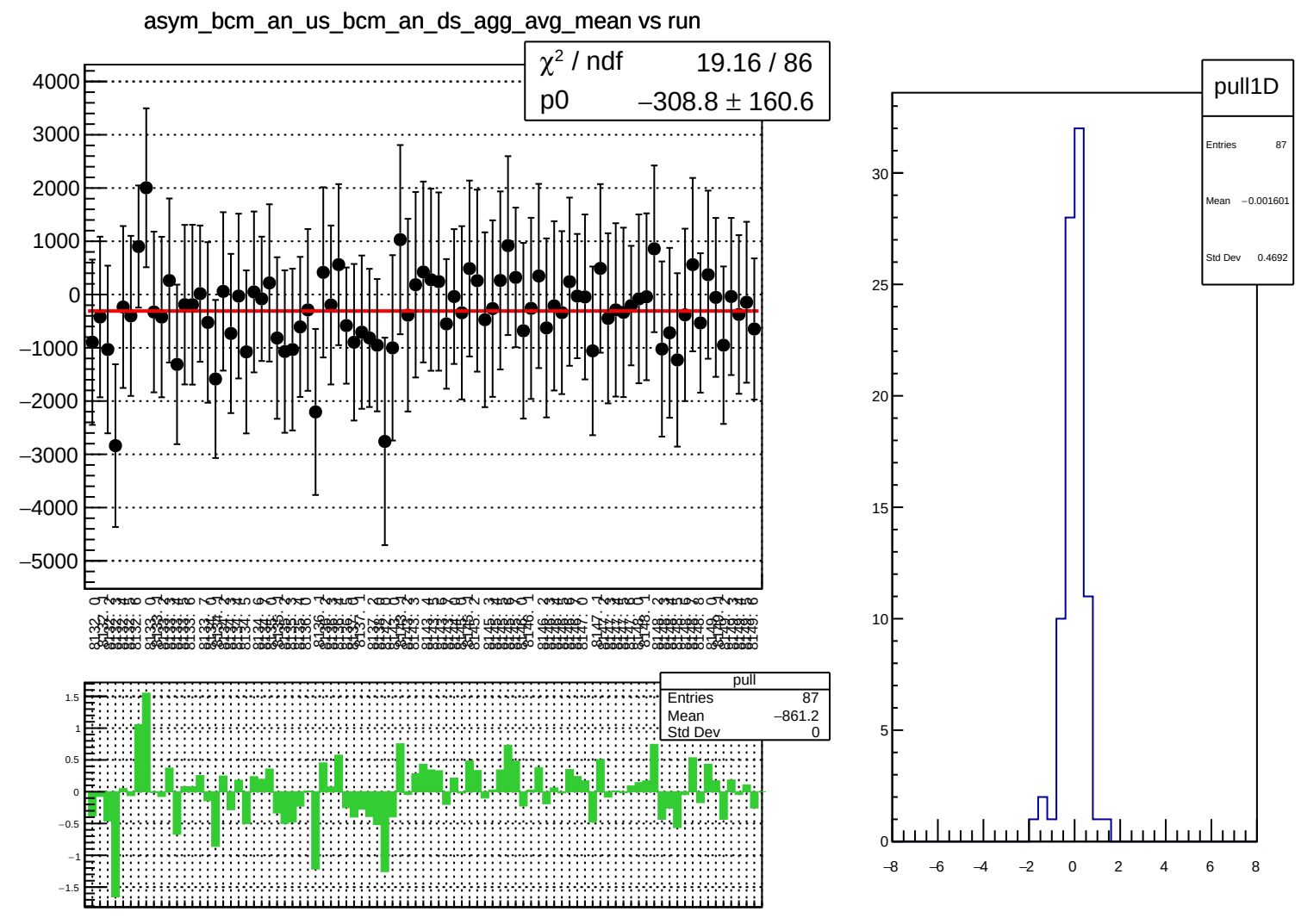

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

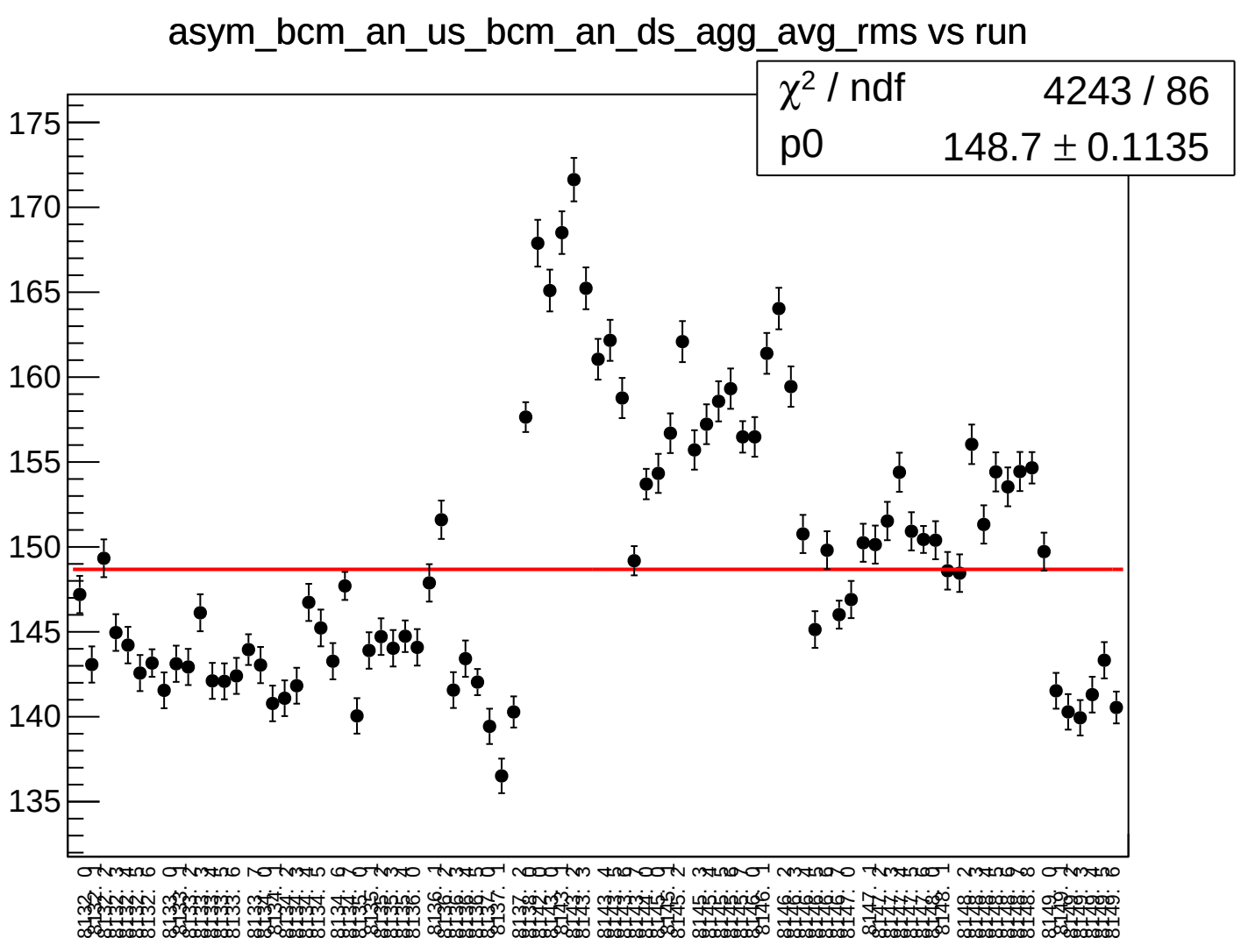

yield_atr1_rms vs run
×10⁻³
χ² / ndf 9.533e+04 / 86
p0 0.0002093 ± 1.642e−07
0.4
0.35
0.3
0.25
0.2
0.15

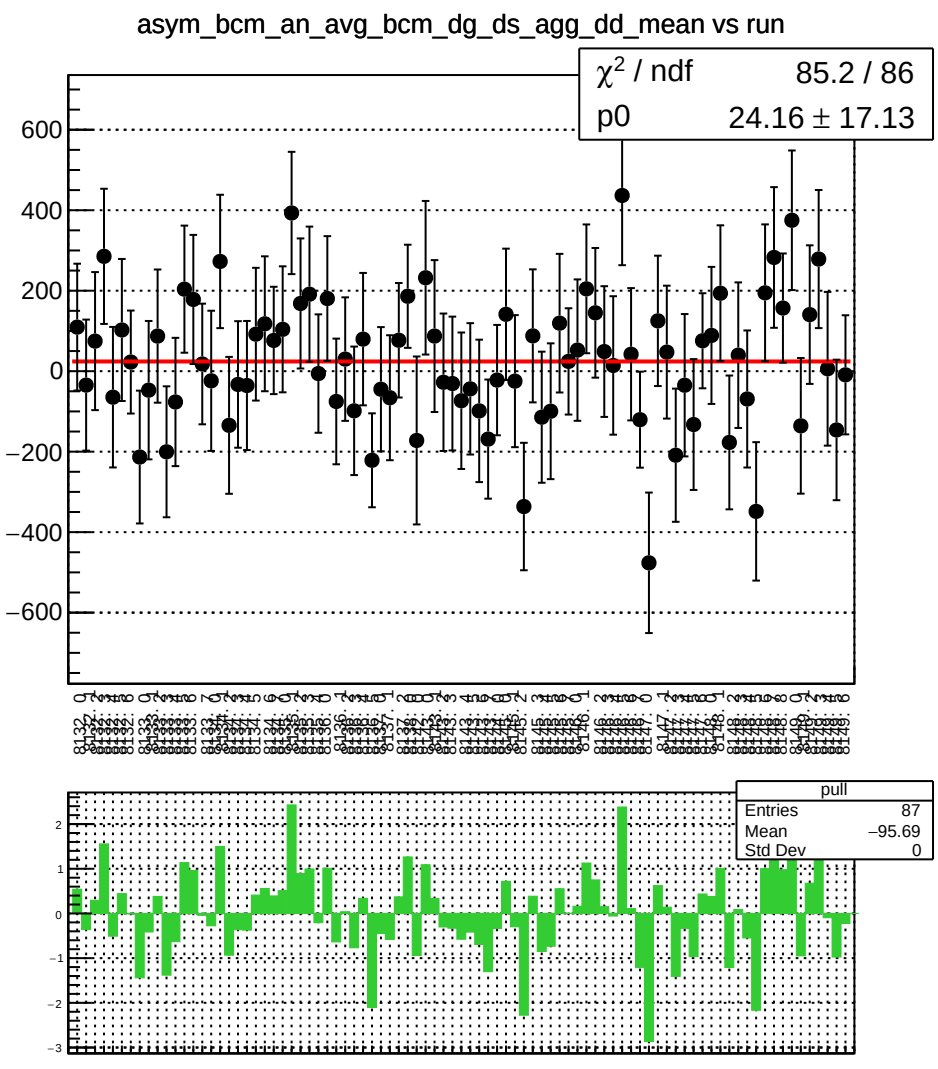

yield_atr2_mean vs run
χ² / ndf 6.339e+07 / 86
p0 0.02401± 7.455e−07
0.034
0.032
0.03
0.028
0.026
0.024
0.022
0.02
pull
Entries 87
Mean −111.7
Std Dev 0
2000
1500
1000
500
0
−500
−1000

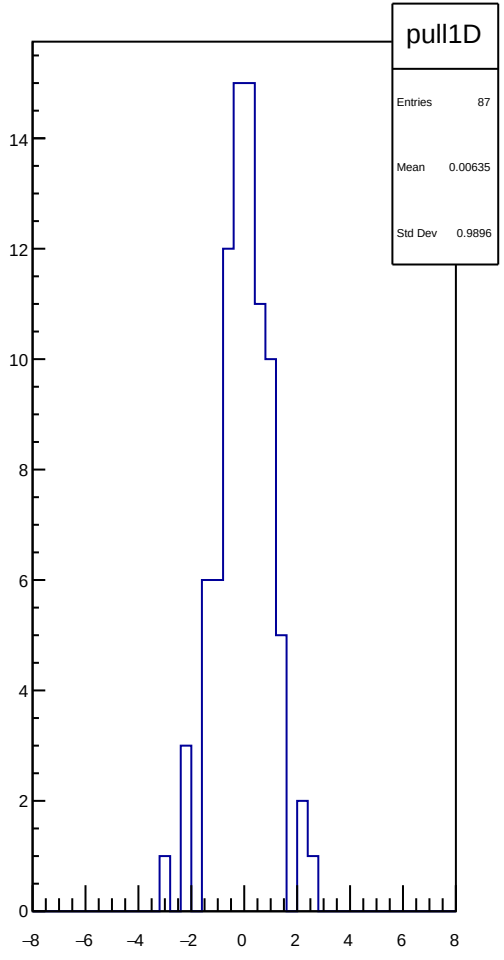

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

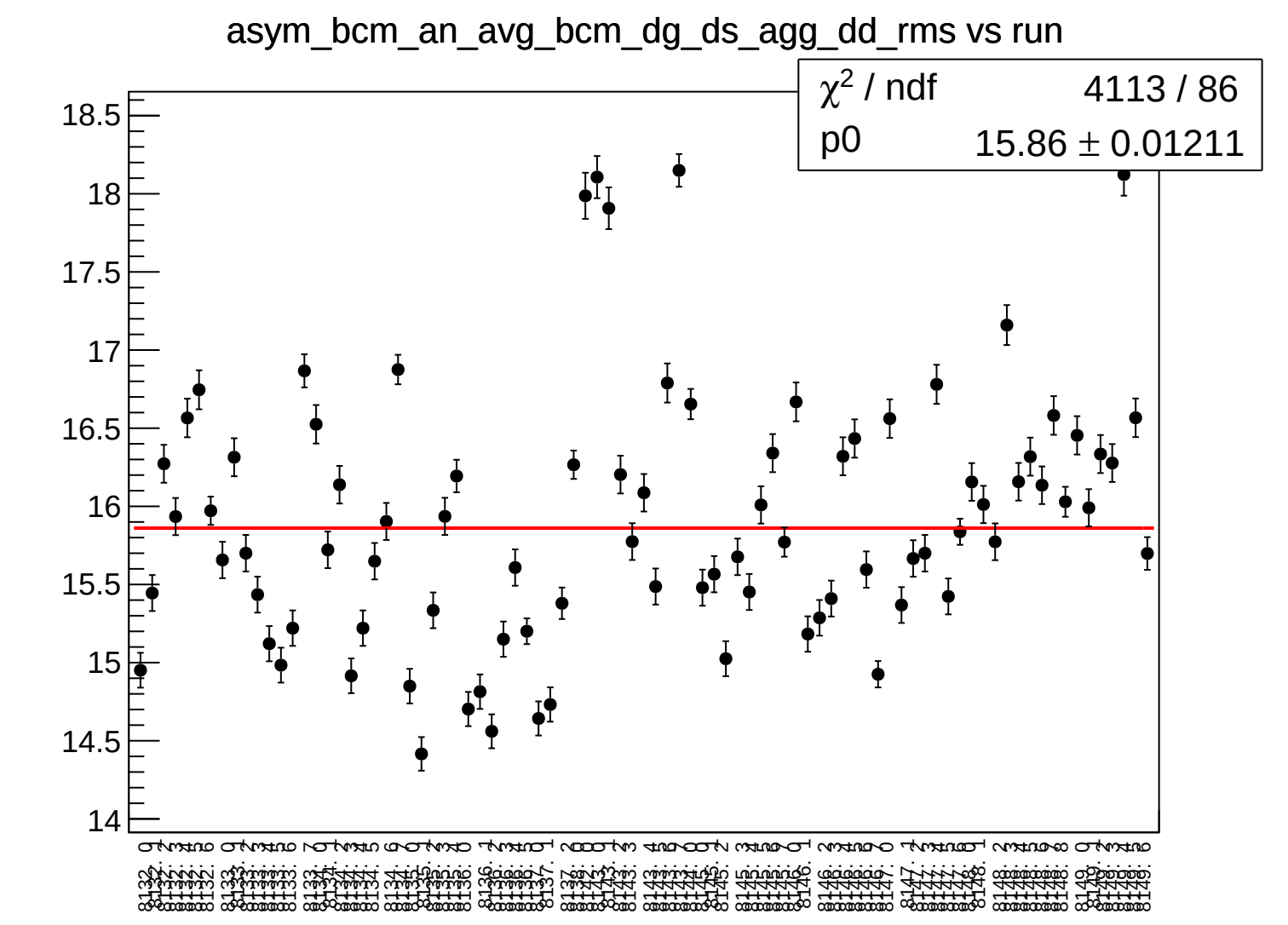

yield_atr2_rms vs run
χ² / ndf 1.382e+05 / 86
p0 0.0006627 ± 5.271e−07
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004

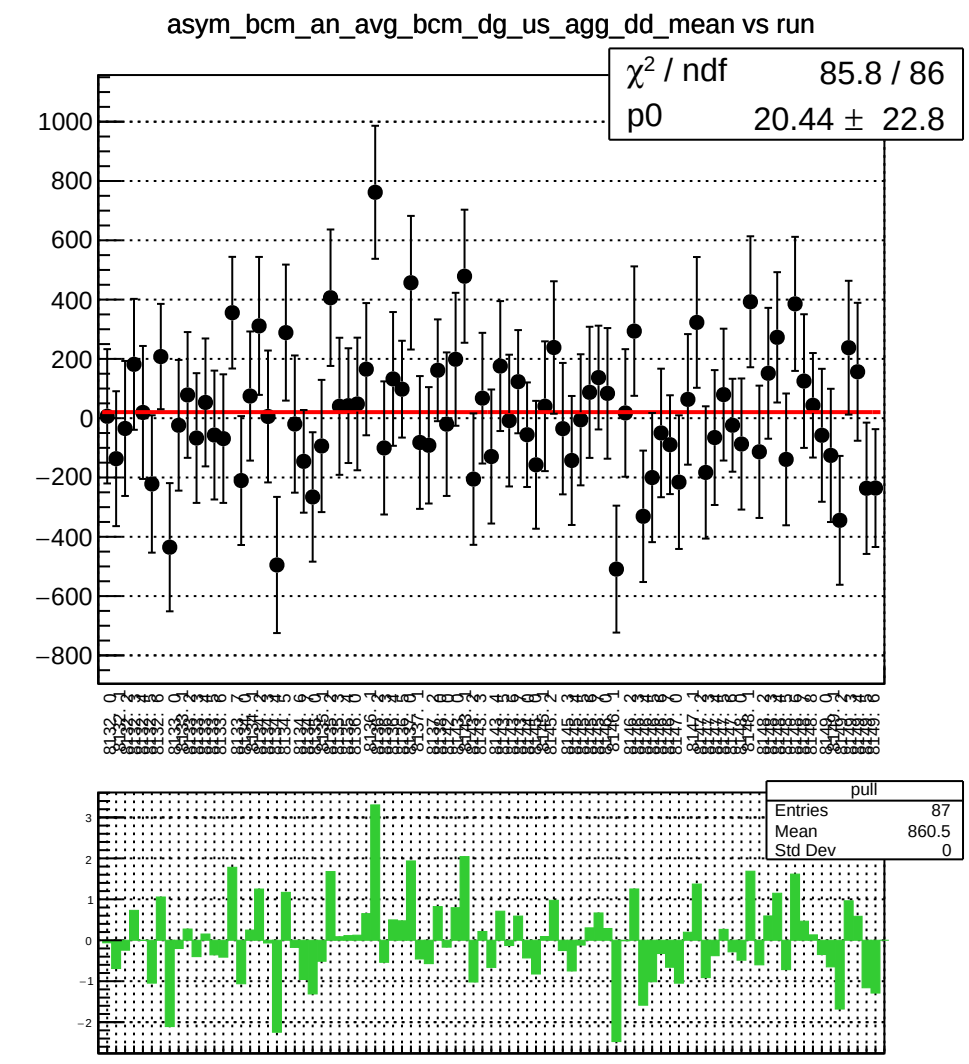

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 19.16 / 86
p0 −308.8 ± 160.6
pull
Entries 87
Mean −861.2
Std Dev 0
pull1D
Entries 87
Mean −0.001601
Std Dev 0.4692

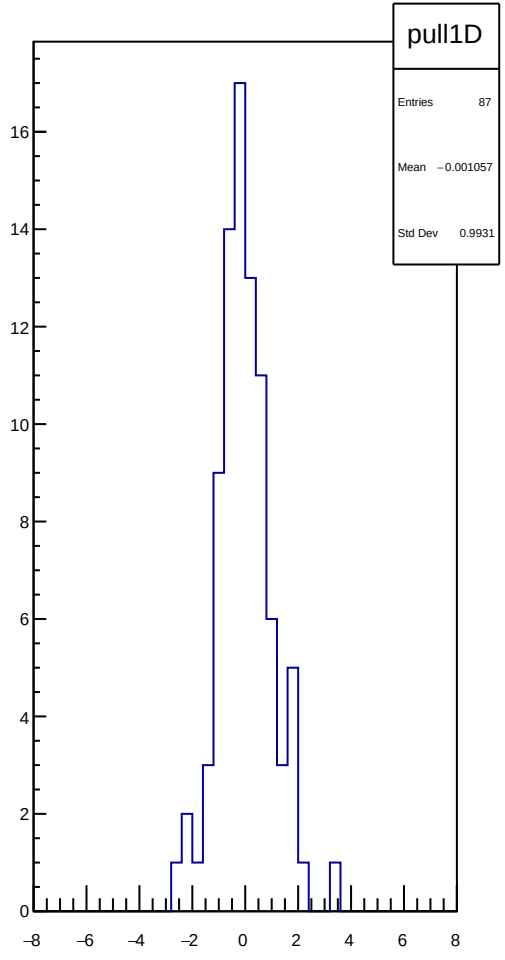

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 4243 / 86
p0 148.7 ± 0.1135
175
170
165
160
155
150
145
140
135

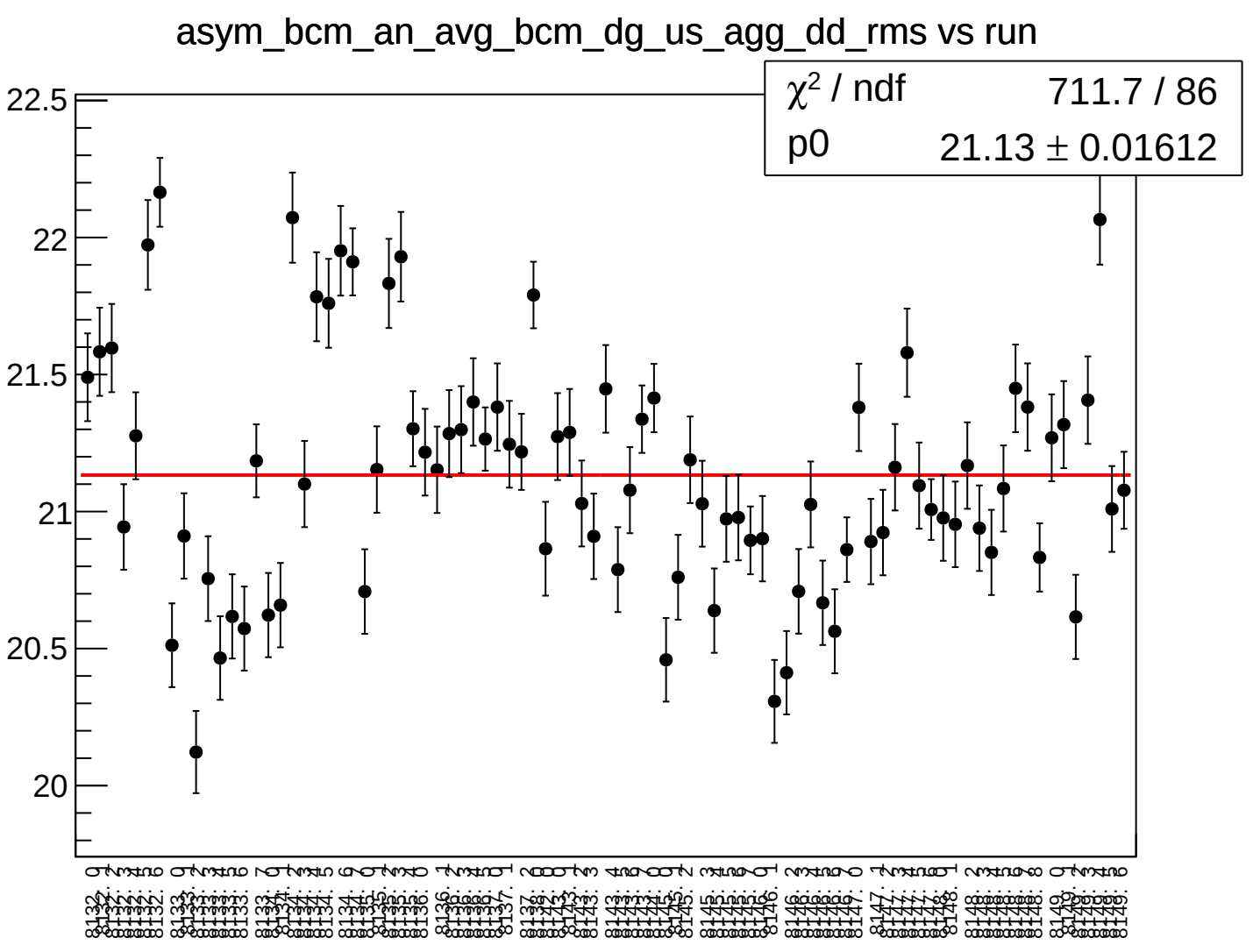

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 85.2 / 86
p0 24.16 ± 17.13
600
400
200
0
−200
−400
−600
pull
Entries 87
Mean −95.69
Std Dev 0
2
1
0
−1
−2
−3

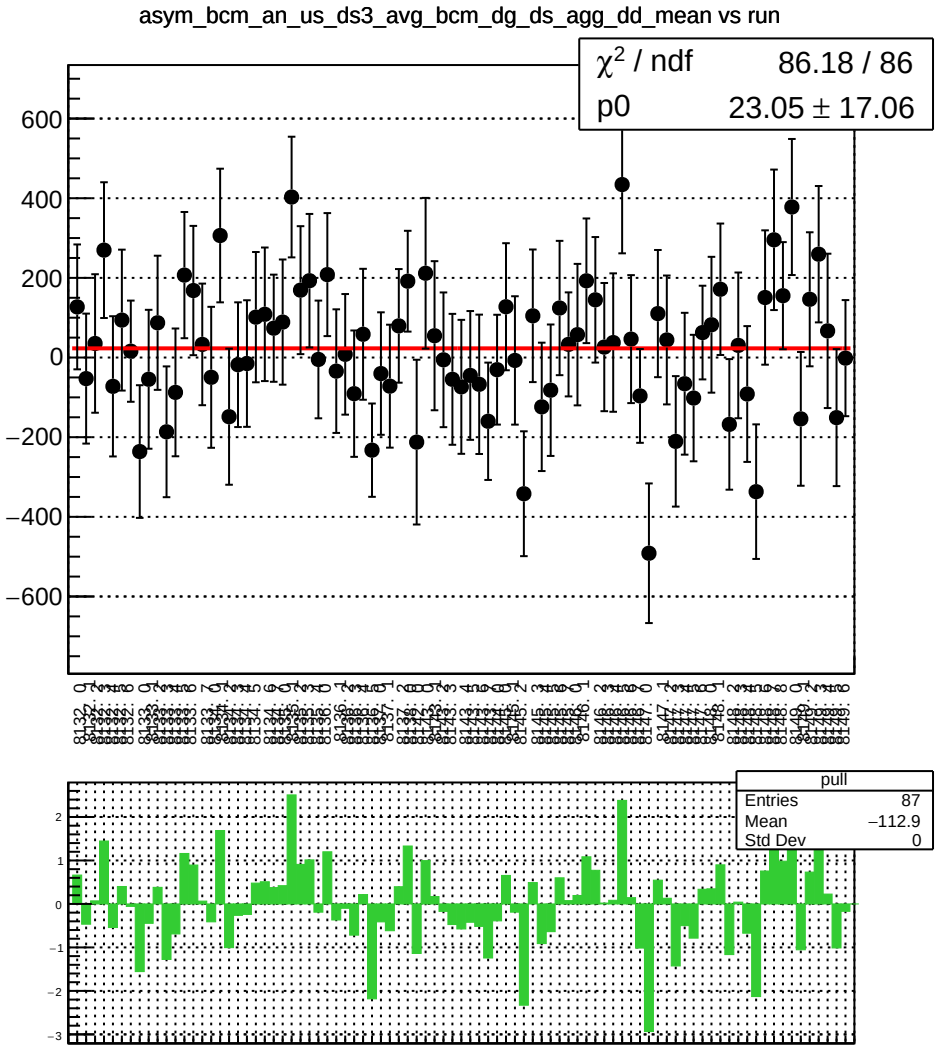

pull1D
Entries 87
Mean 0.00635
Std Dev 0.9896
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

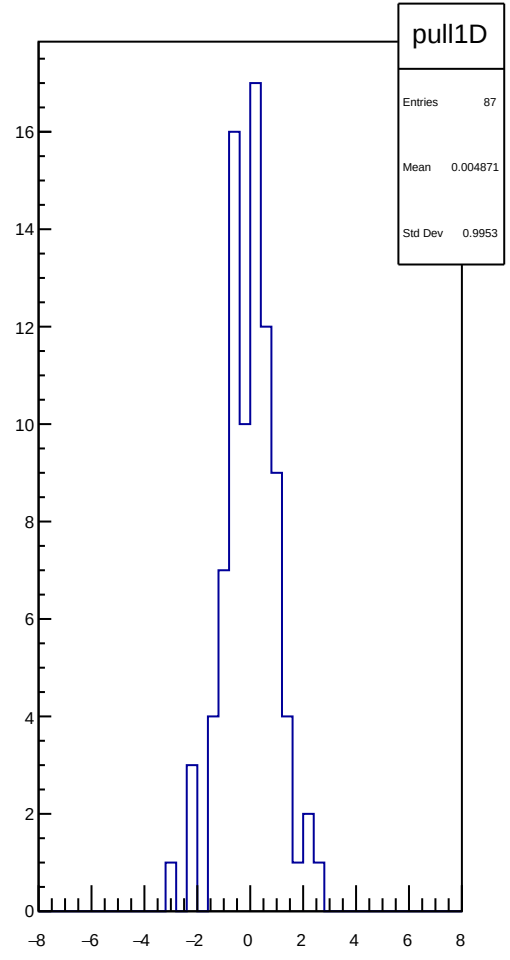

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 4113 / 86
p0 15.86 ± 0.01211
18.5
18
17.5
17
16.5
16
15.5
15
14.5
14

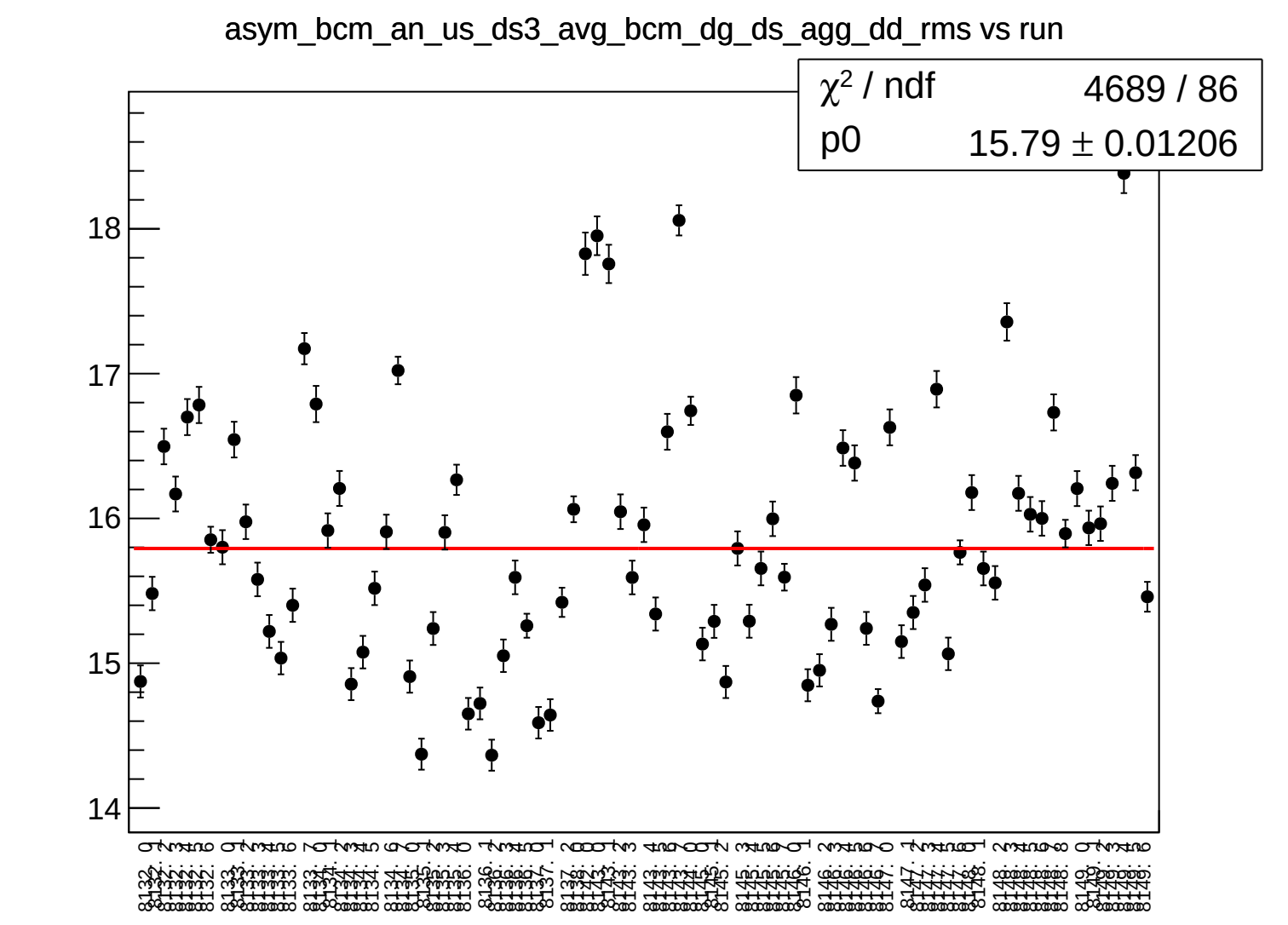

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 85.8 / 86
p0 20.44 ± 22.8
1000
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 87
Mean 860.5
Std Dev 0
3
2
1
0
−1
−2

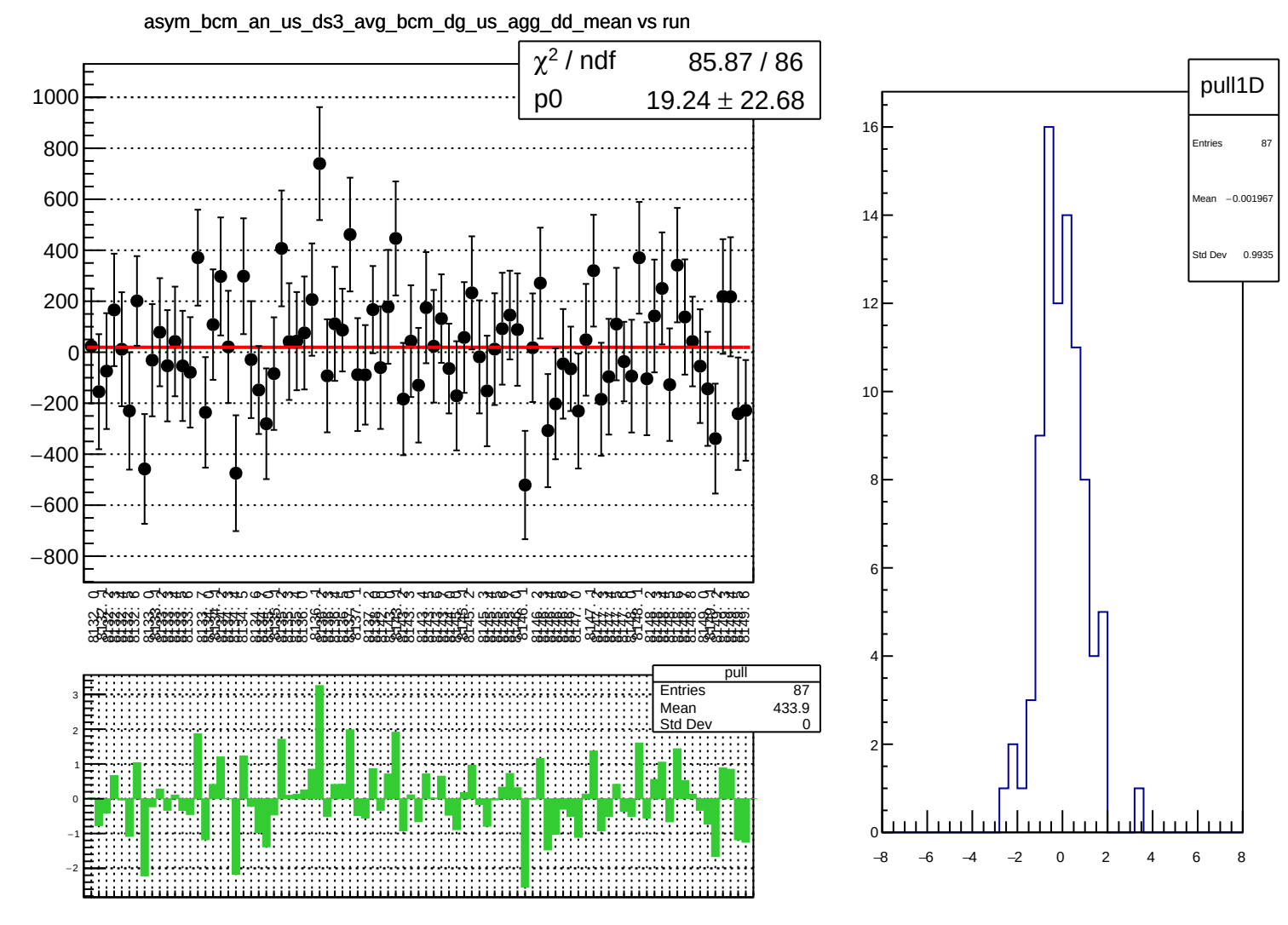

pull1D
Entries 87
Mean −0.001057
Std Dev 0.9931
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

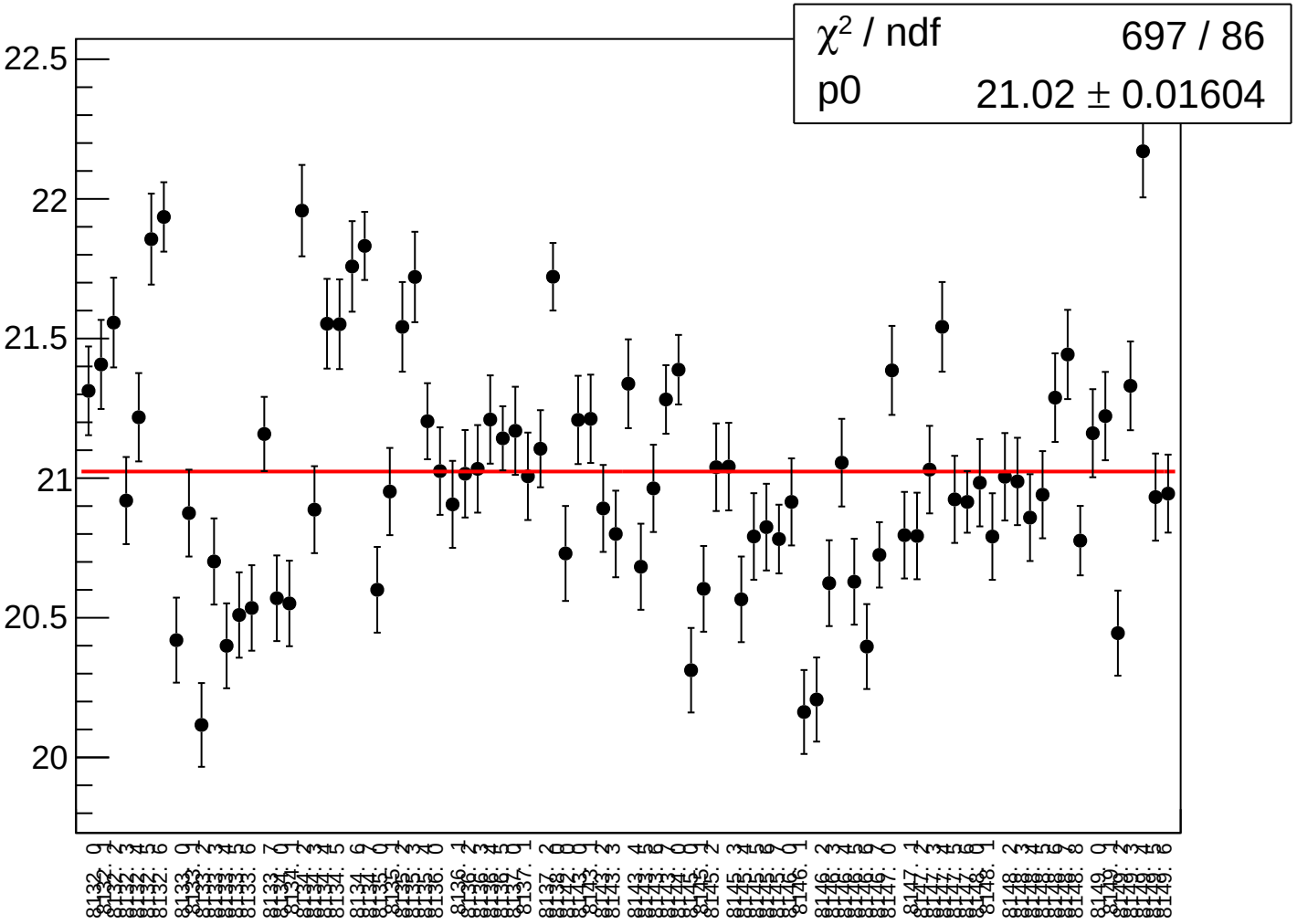

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 711.7 / 86
p0 21.13 ± 0.01612
22.5
22
21.5
21
20.5
20

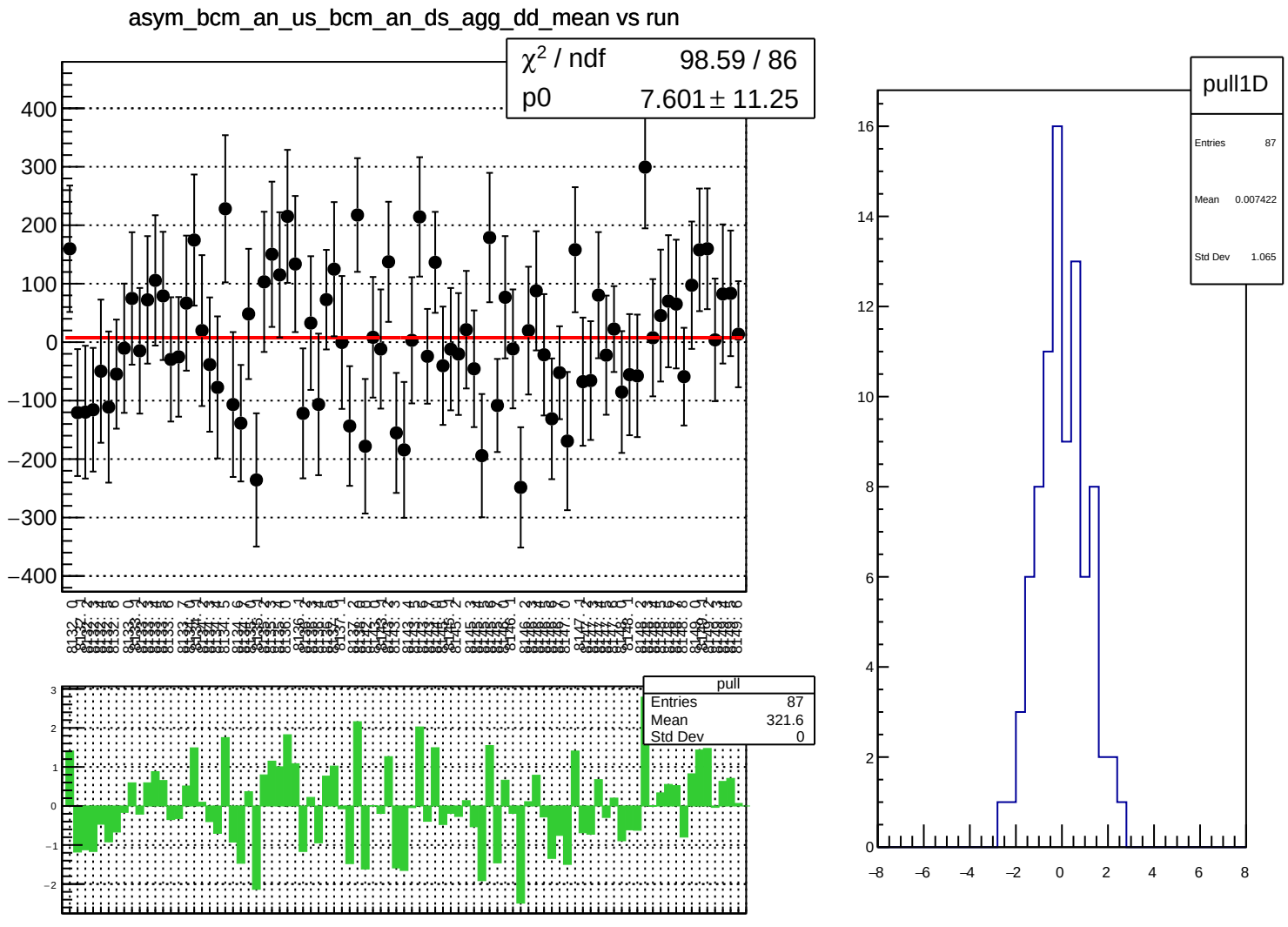

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 86.18 / 86
p0 23.05 ± 17.06
pull
Entries 87
Mean −112.9
Std Dev 0

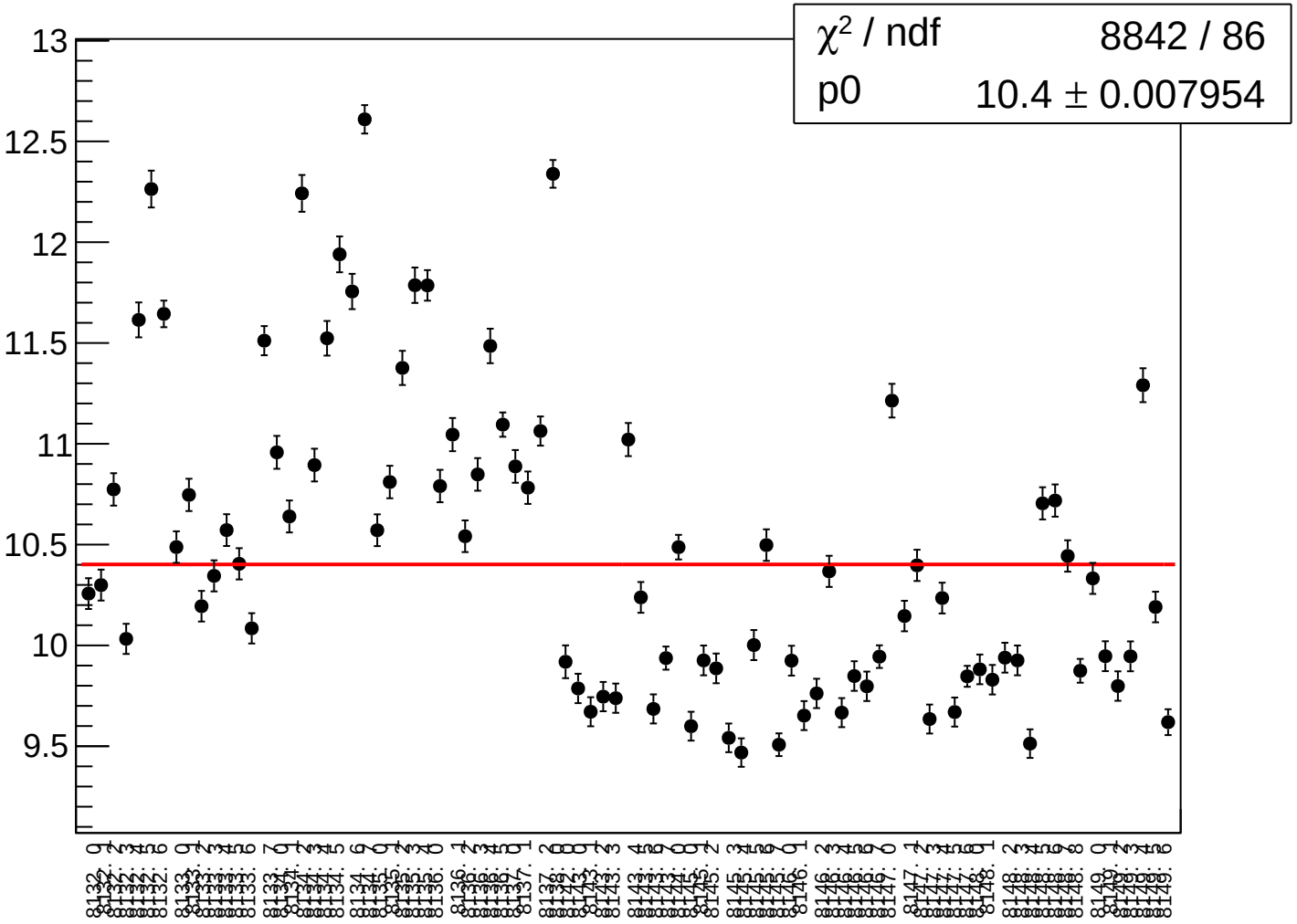

pull1D
Entries 87
Mean 0.004871
Std Dev 0.9953

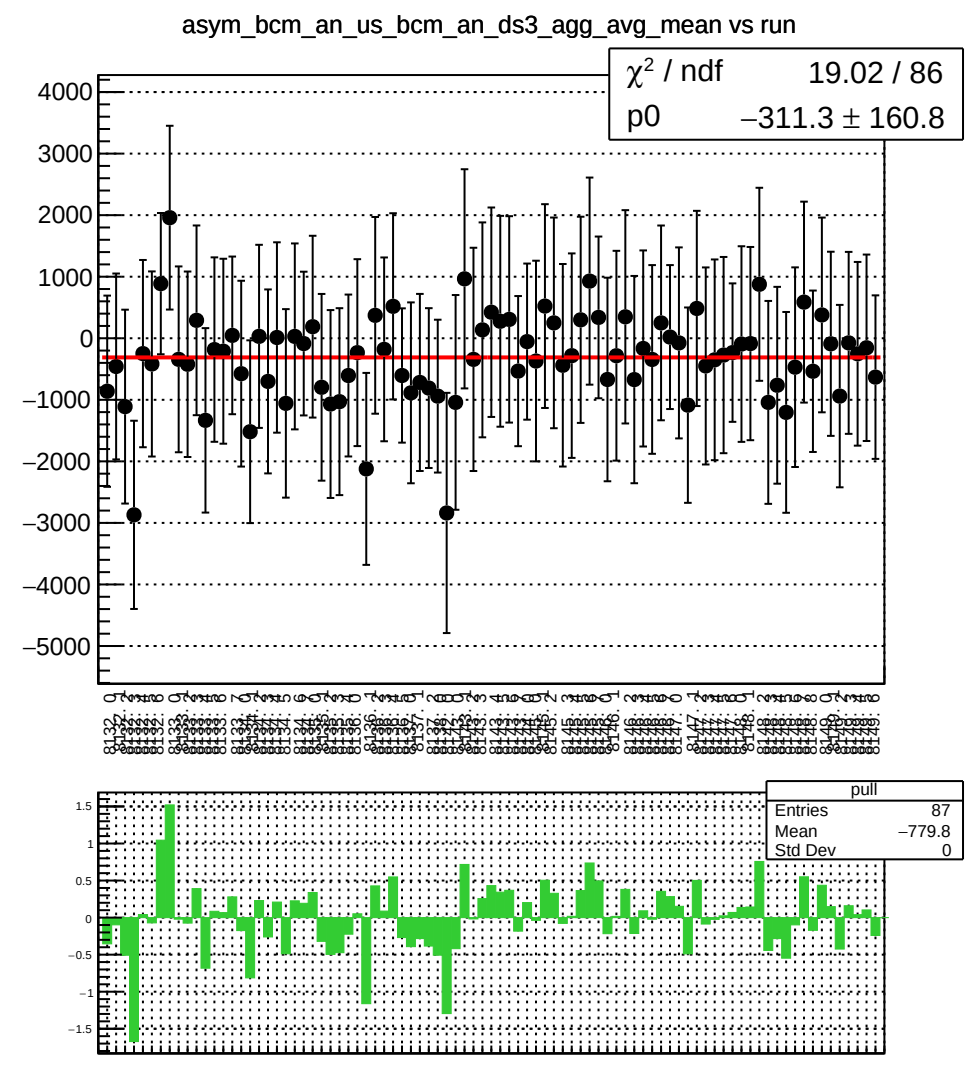

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 4689 / 86
p0 15.79 ± 0.01206
18
17
16
15
14

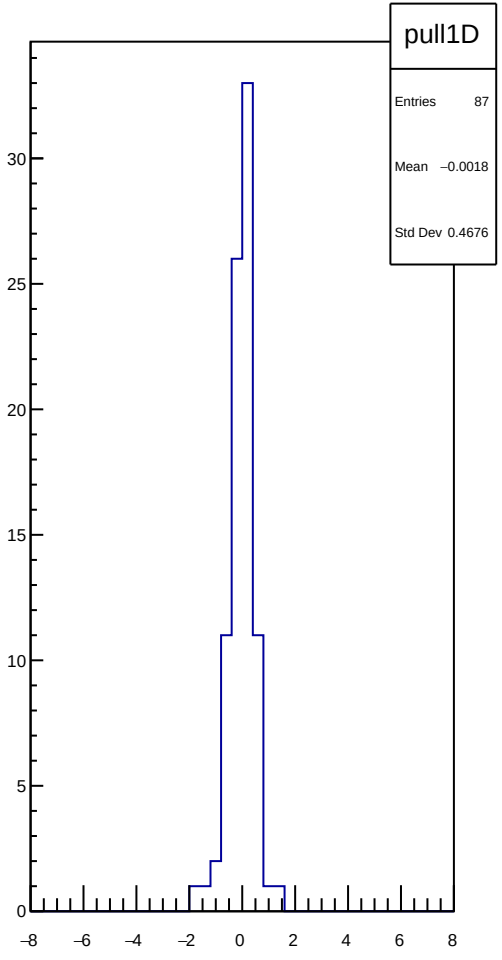

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 85.87 / 86
p0 19.24 ± 22.68
pull
Entries 87
Mean 433.9
Std Dev 0
pull1D
Entries 87
Mean −0.001967
Std Dev 0.9935

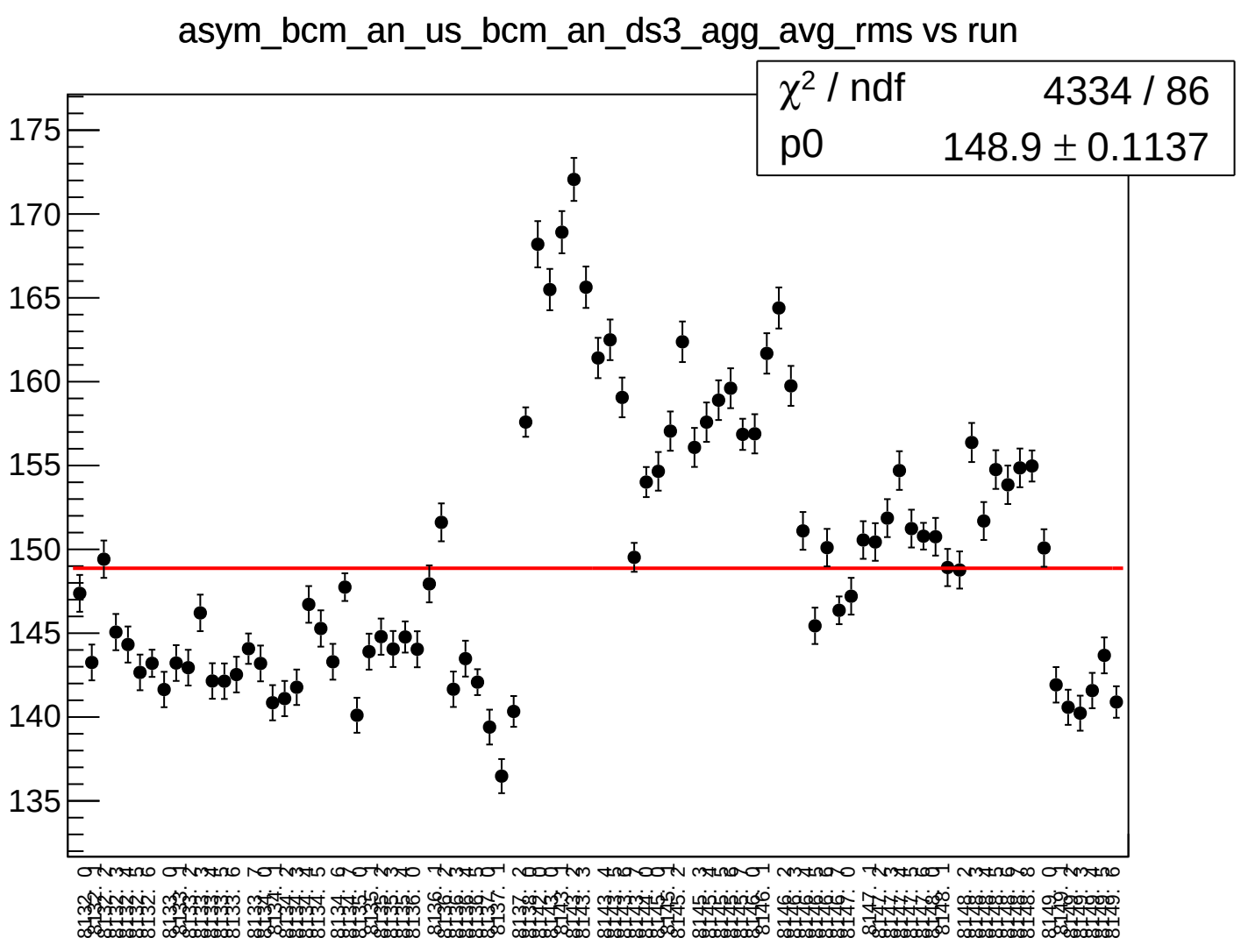

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 697 / 86
p0 21.02 ± 0.01604
22.5
22
21.5
21
20.5
20

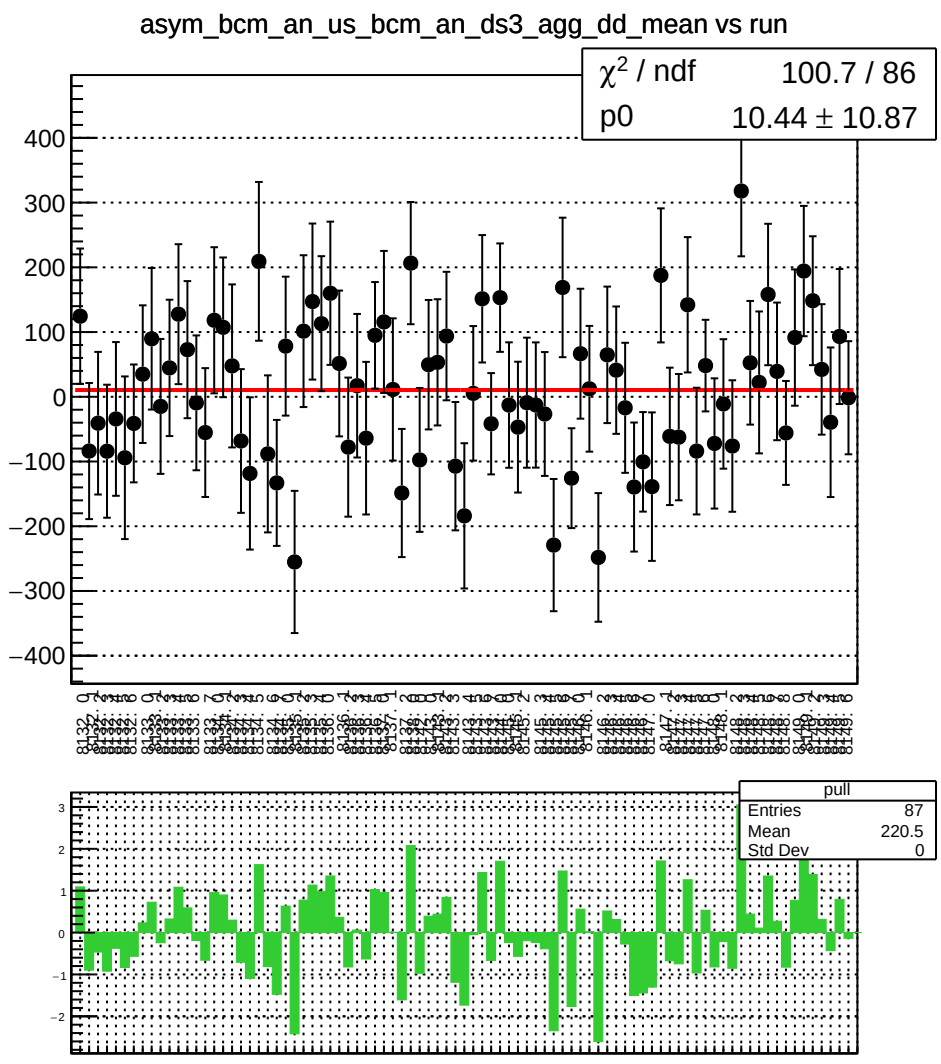

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 98.59 / 86
p0 7.601 ± 11.25
pull
Entries 87
Mean 321.6
Std Dev 0
pull1D
Entries 87
Mean 0.007422
Std Dev 1.065

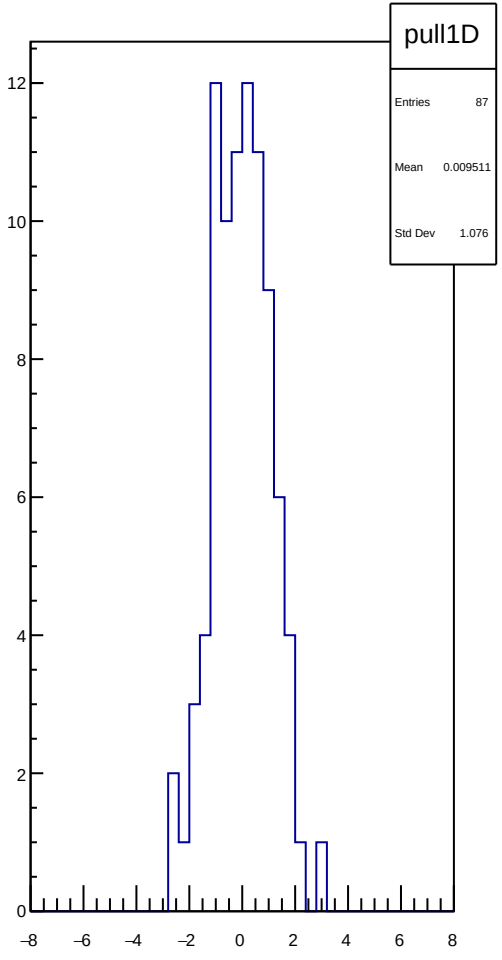

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 8842 / 86
p0 10.4 ± 0.007954
13
12.5
12
11.5
11
10.5
10
9.5

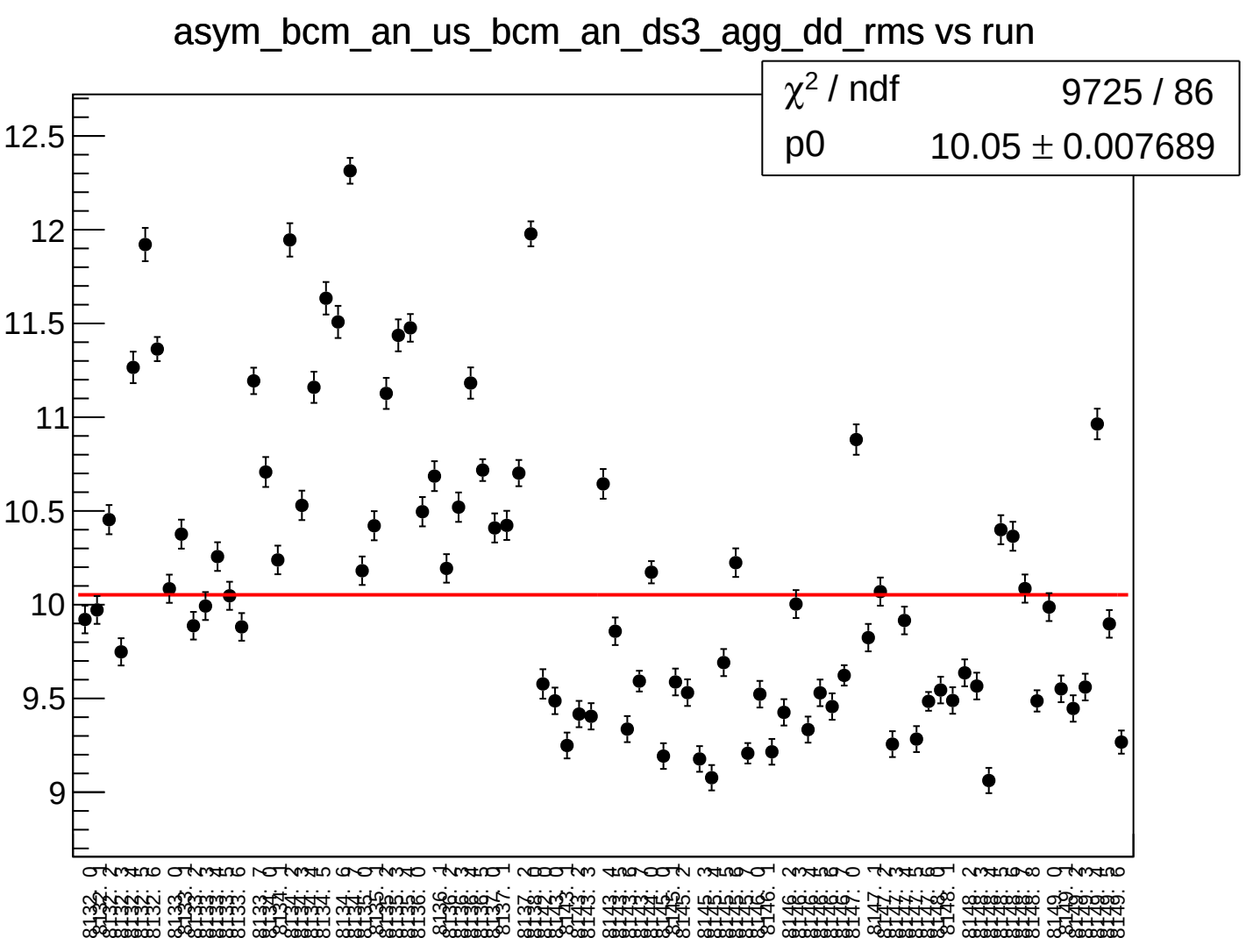

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 19.02 / 86
p0 −311.3 ± 160.8
pull
Entries 87
Mean −779.8
Std Dev 0

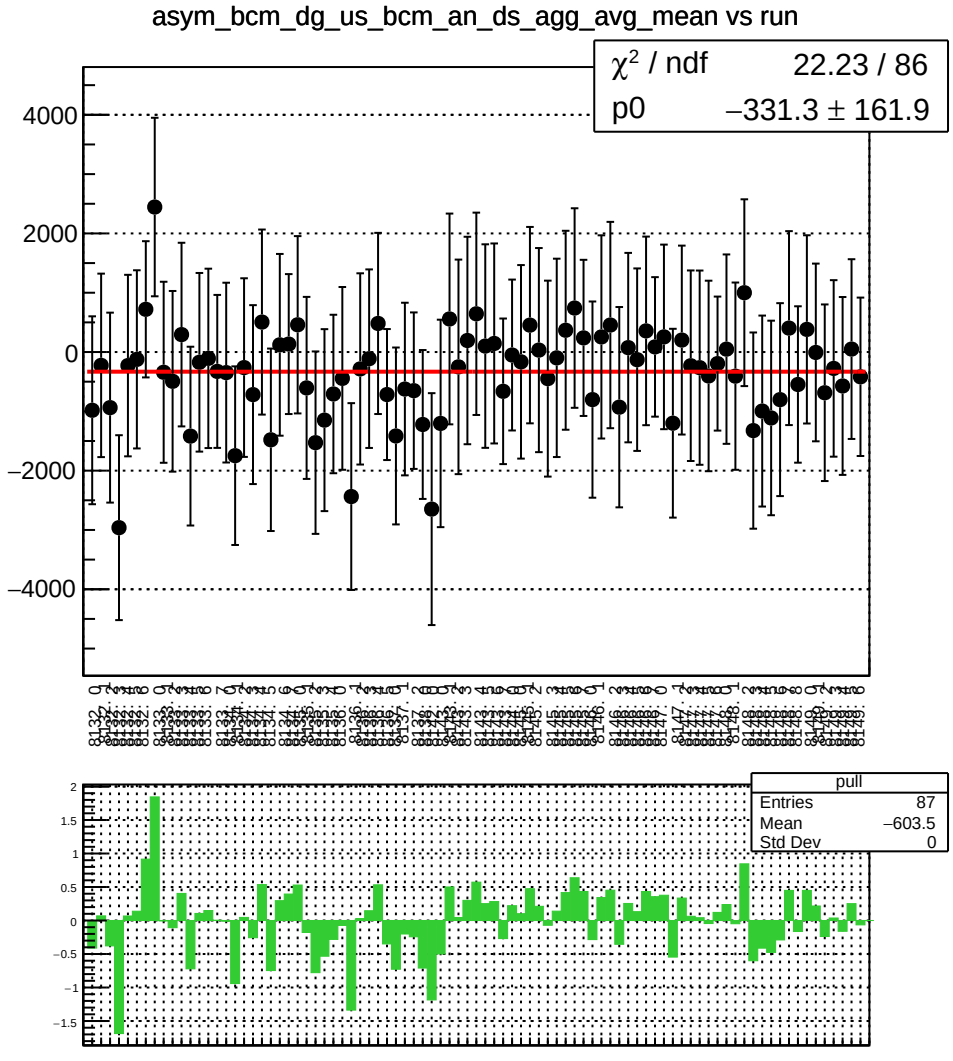

pull1D
Entries 87
Mean −0.0018
Std Dev 0.4676

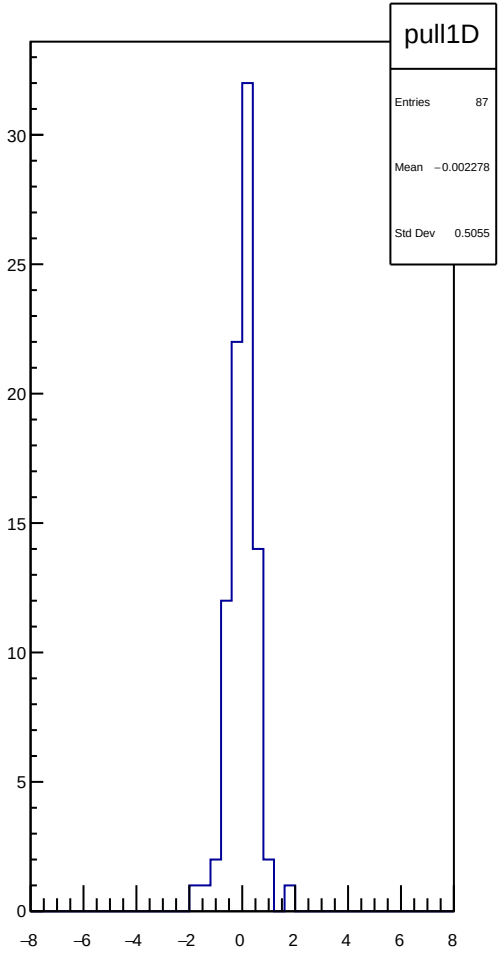

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 4334 / 86
p0 148.9 ± 0.1137
175
170
165
160
155
150
145
140
135

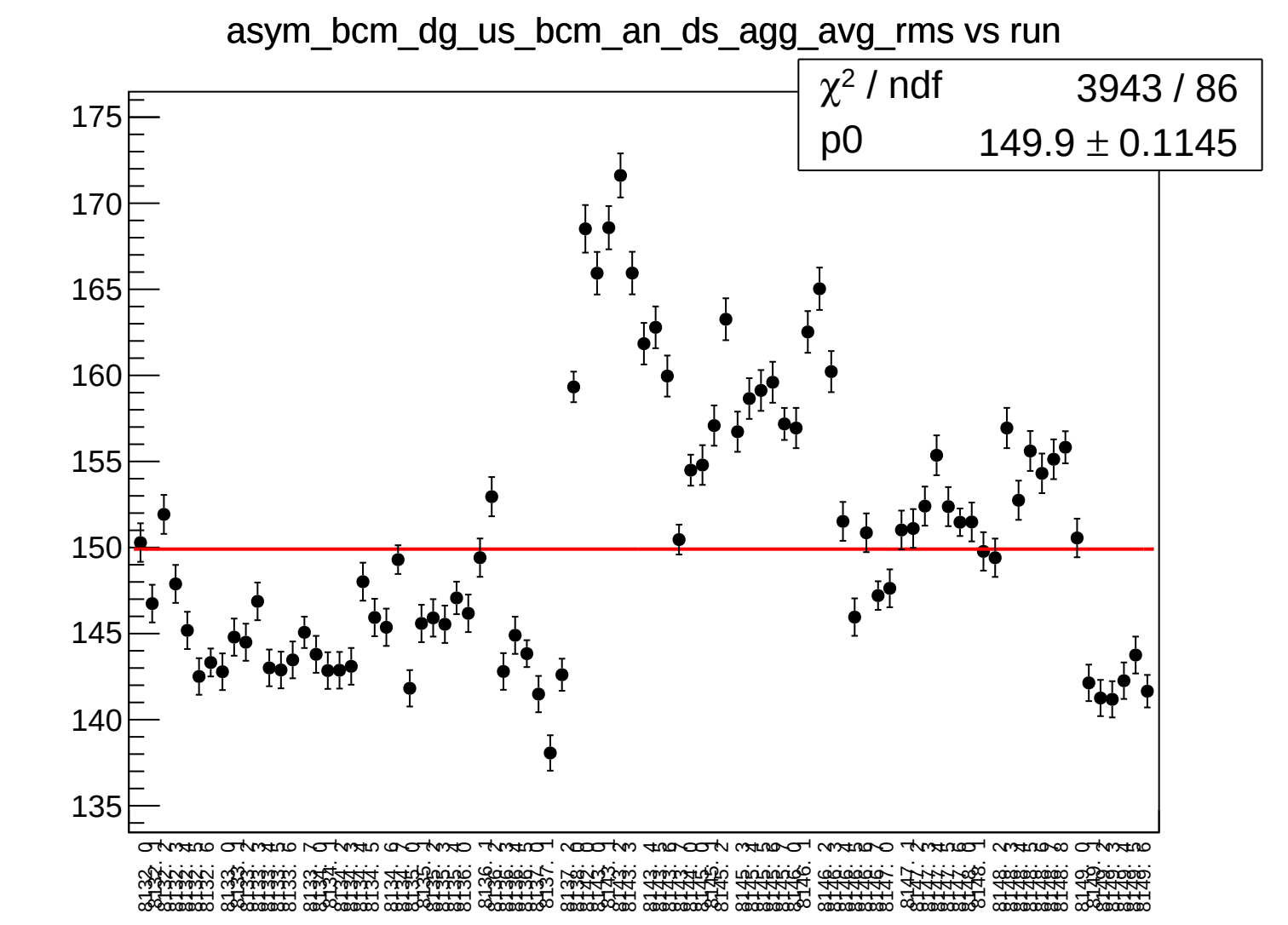

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 100.7 / 86
p0 10.44 ± 10.87
pull
Entries 87
Mean 220.5
Std Dev 0

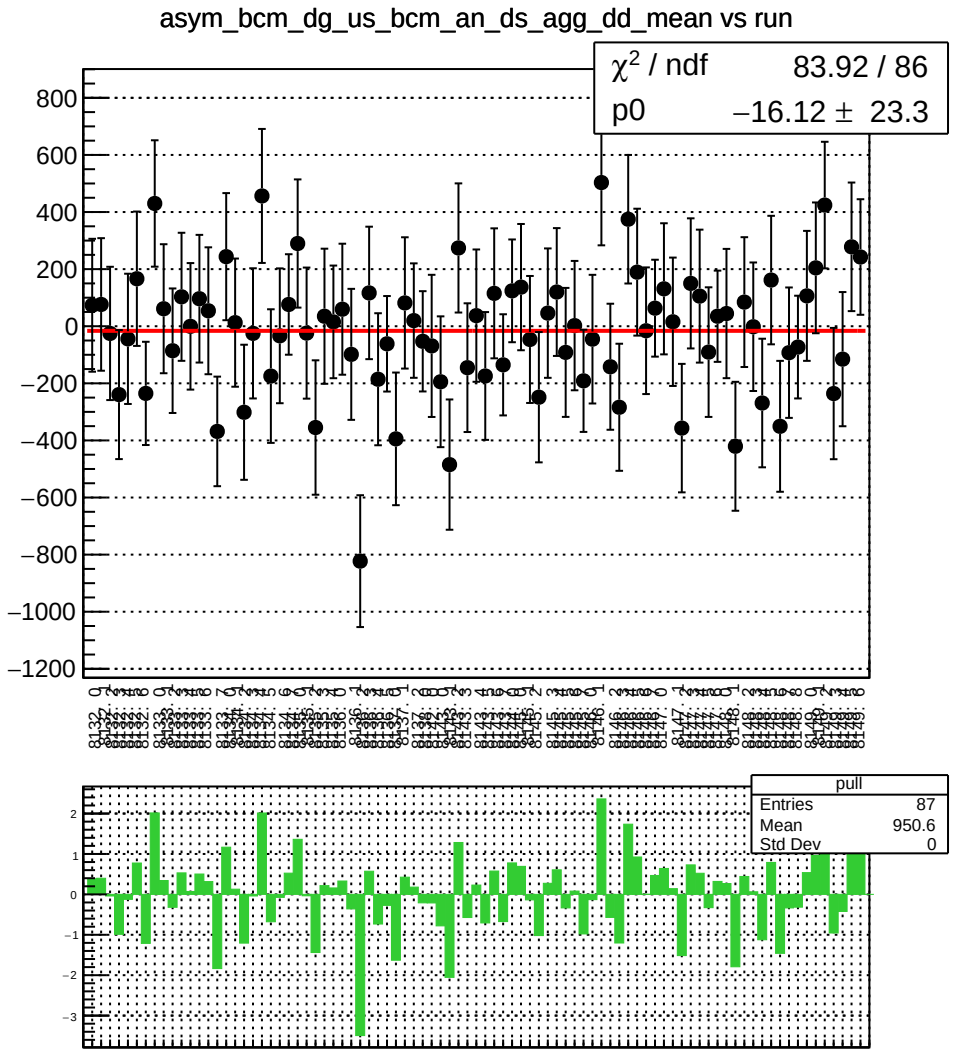

pull1D
Entries 87
Mean 0.009511
Std Dev 1.076

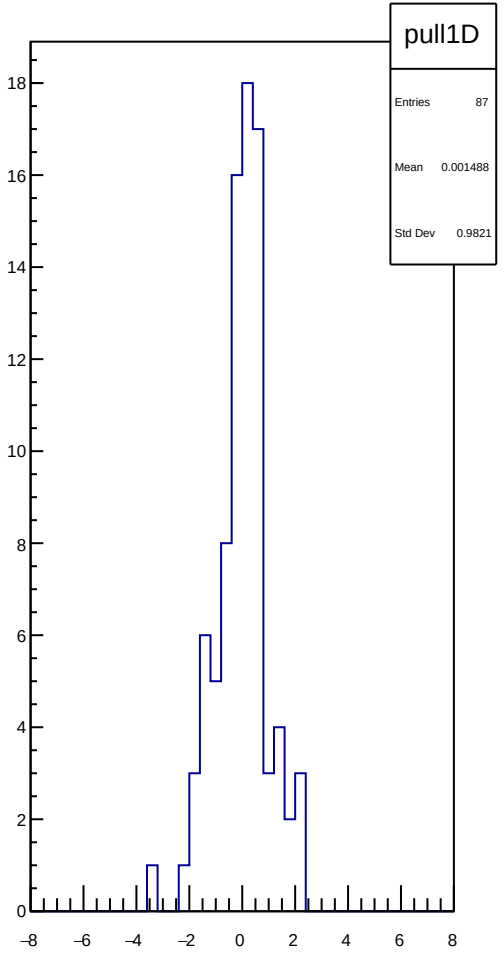

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 9725 / 86
p0 10.05 ± 0.007689
12.5
12
11.5
11
10.5
10
9.5
9

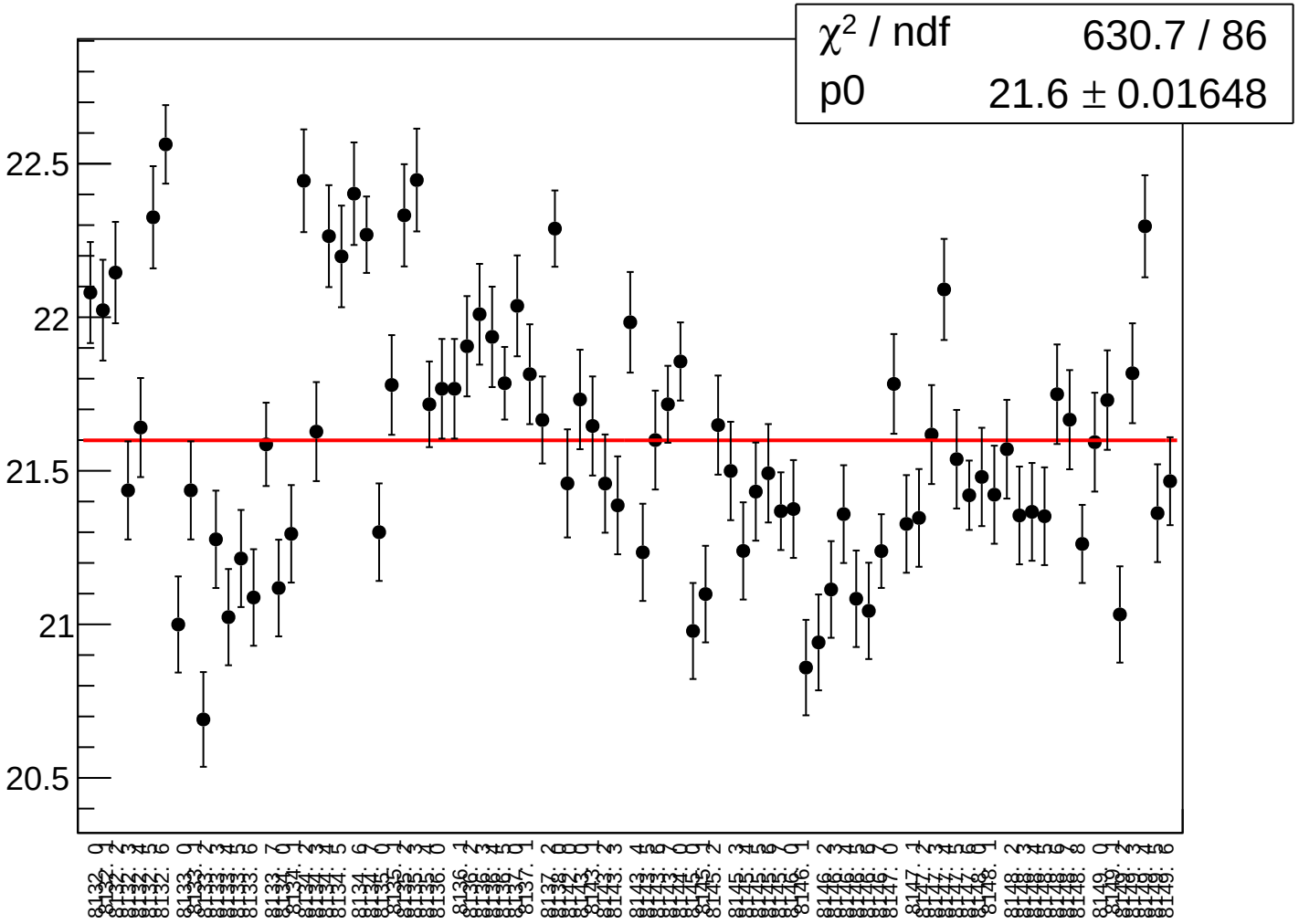

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 22.23 / 86
p0 −331.3 ± 161.9
4000
2000
0
−2000
−4000
pull
Entries 87
Mean −603.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

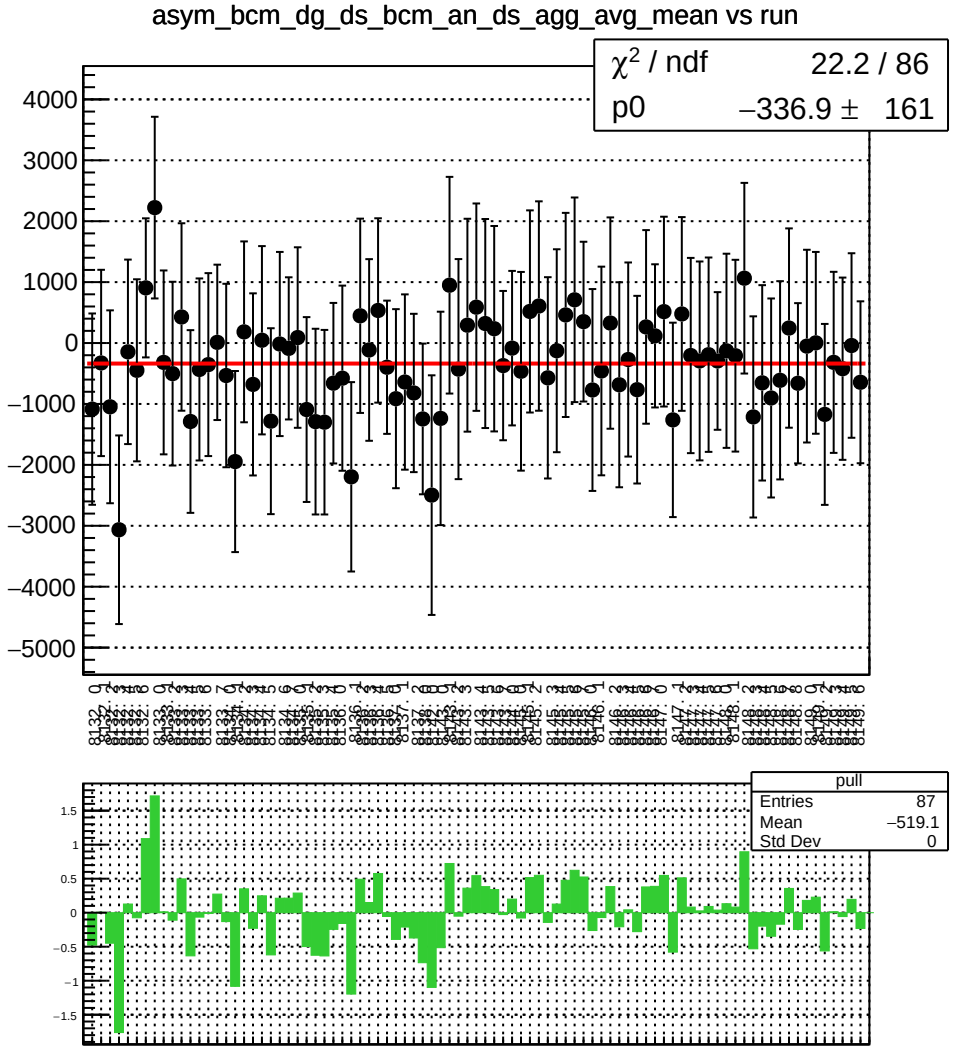

pull1D
Entries 87
Mean −0.002278
Std Dev 0.5055
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

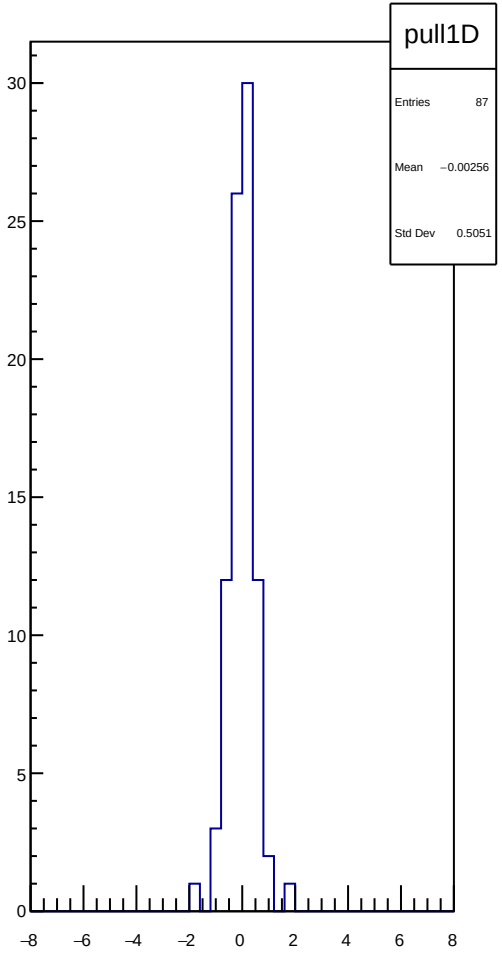

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3943 / 86
p0 149.9 ± 0.1145
175
170
165
160
155
150
145
140
135

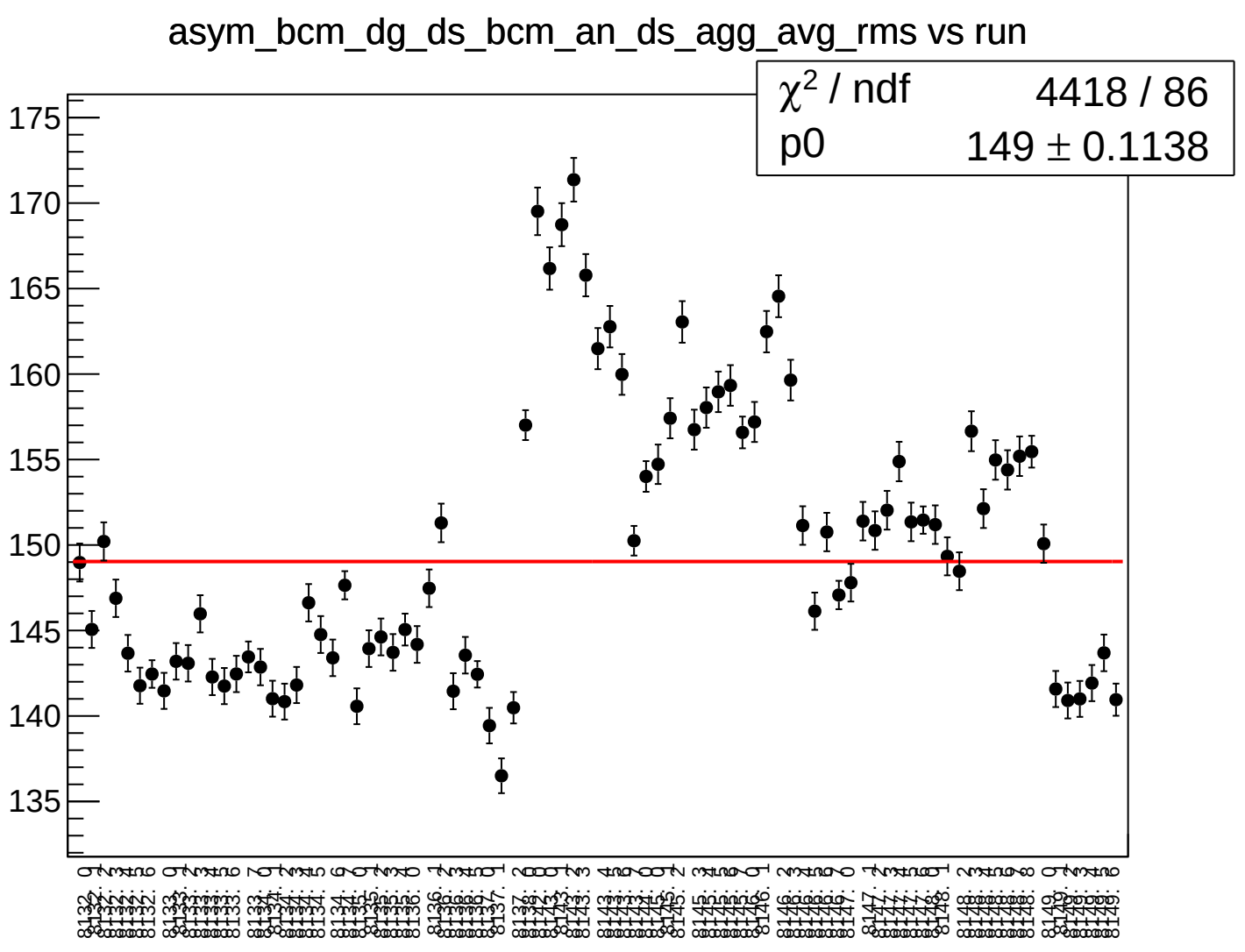

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 83.92 / 86
p0 −16.12 ± 23.3
pull
Entries 87
Mean 950.6
Std Dev 0

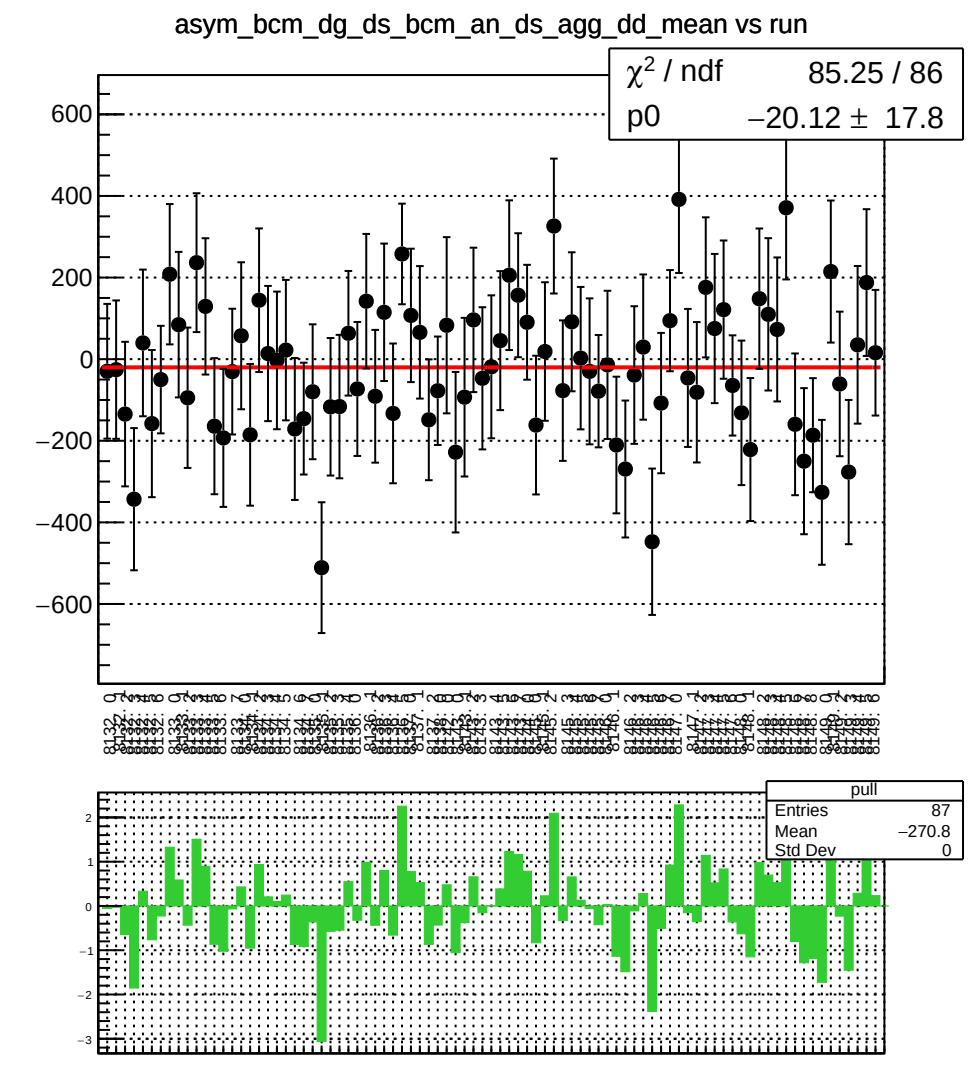

pull1D
Entries 87
Mean 0.001488
Std Dev 0.9821

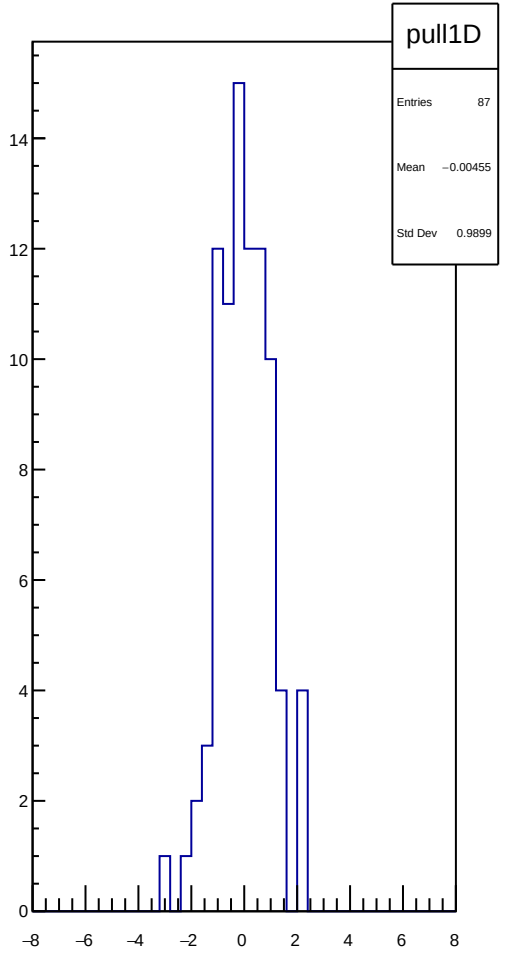

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 630.7 / 86
p0 21.6 ± 0.01648
22.5
22
21.5
21
20.5

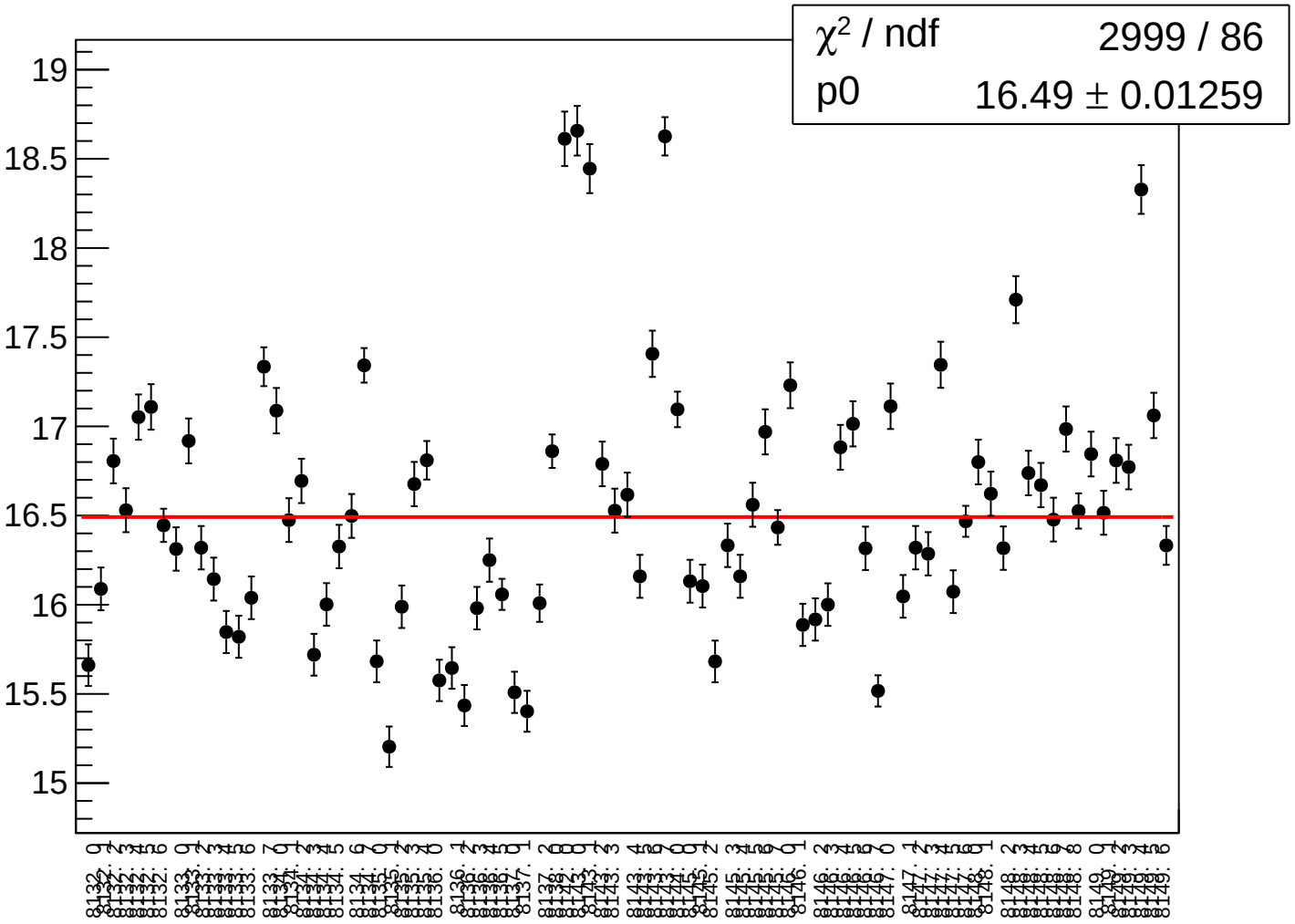

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 22.2 / 86
p0 −336.9 ± 161
pull
Entries 87
Mean −519.1
Std Dev 0

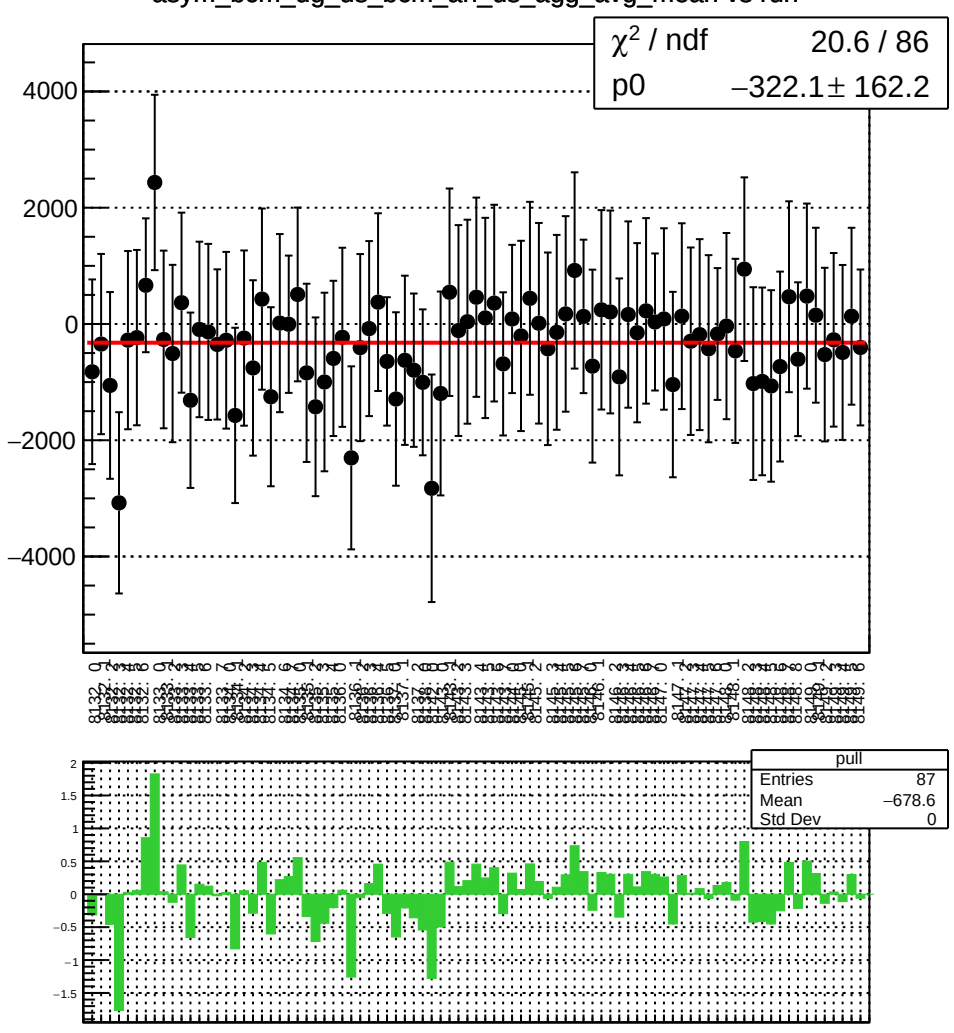

pull1D
Entries 87
Mean −0.00256
Std Dev 0.5051

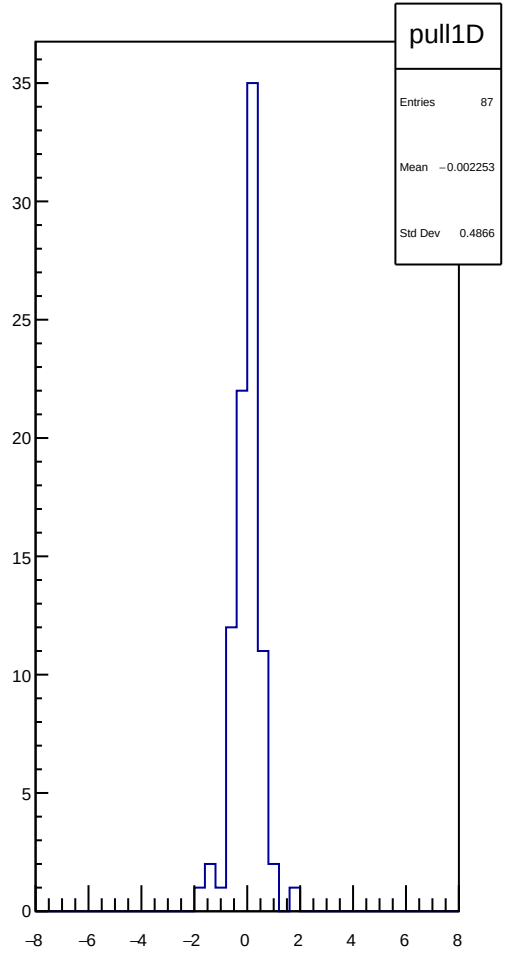

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 4418 / 86
p0 149 ± 0.1138
175
170
165
160
155
150
145
140
135

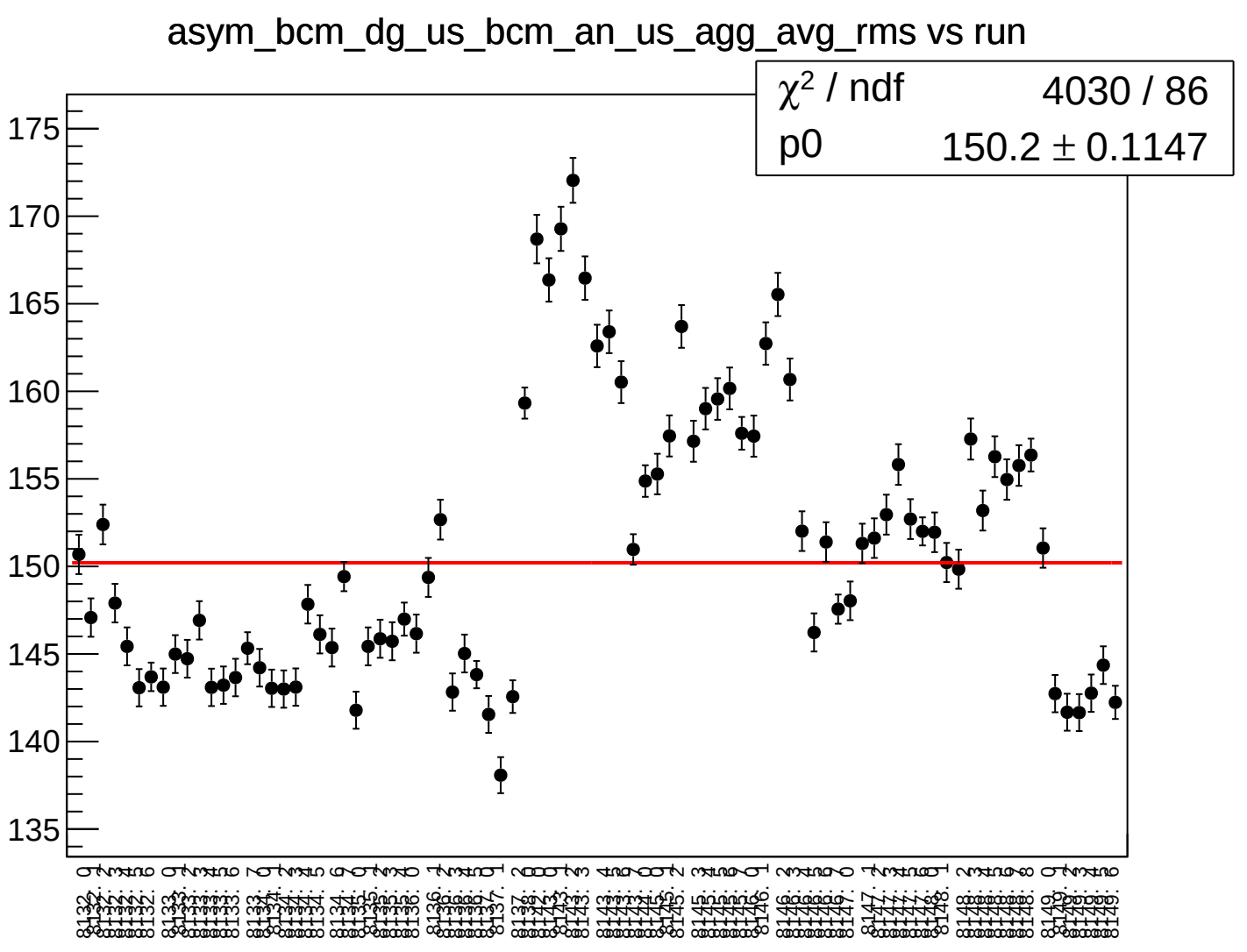

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 85.25 / 86
p0 −20.12 ± 17.8
600
400
200
0
−200
−400
−600
pull
Entries 87
Mean −270.8
Std Dev 0
2
1
0
−1
−2
−3

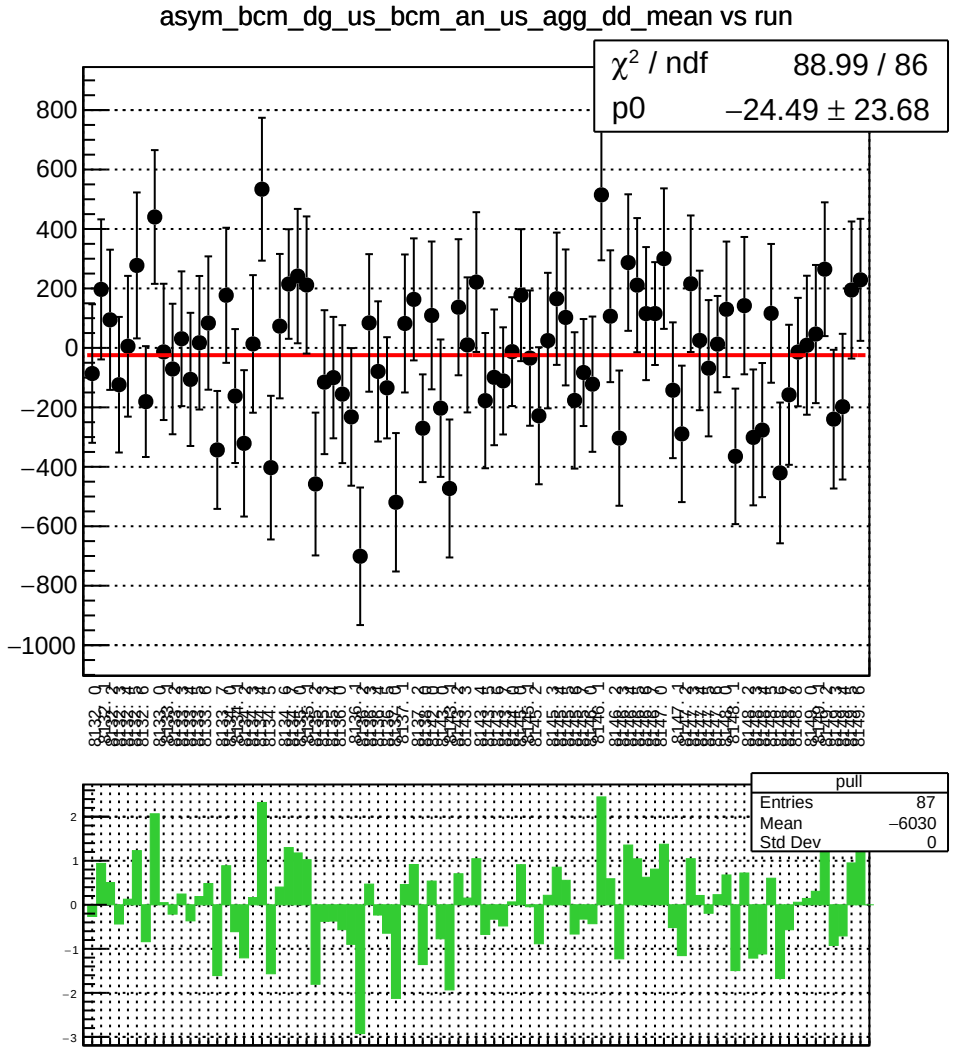

pull1D
Entries 87
Mean −0.00455
Std Dev 0.9899
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

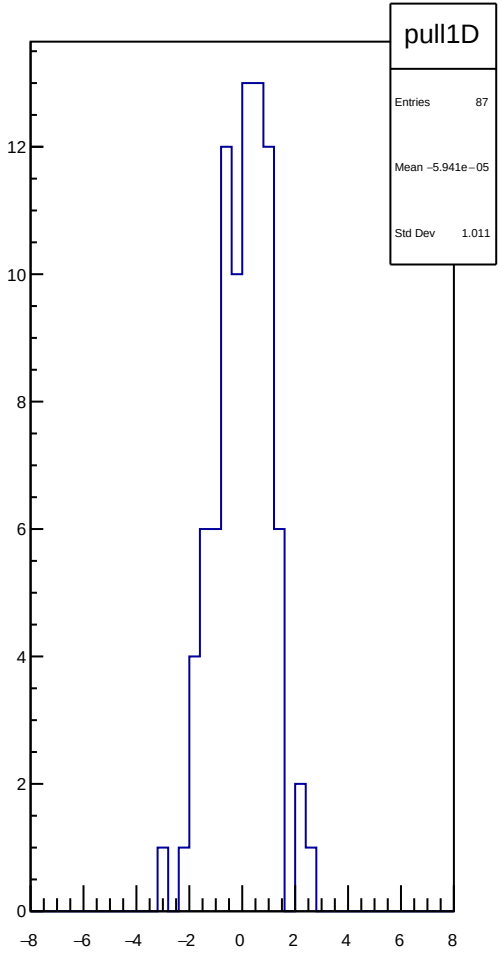

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2999 / 86
p0 16.49 ± 0.01259
19
18.5
18
17.5
17
16.5
16
15.5
15

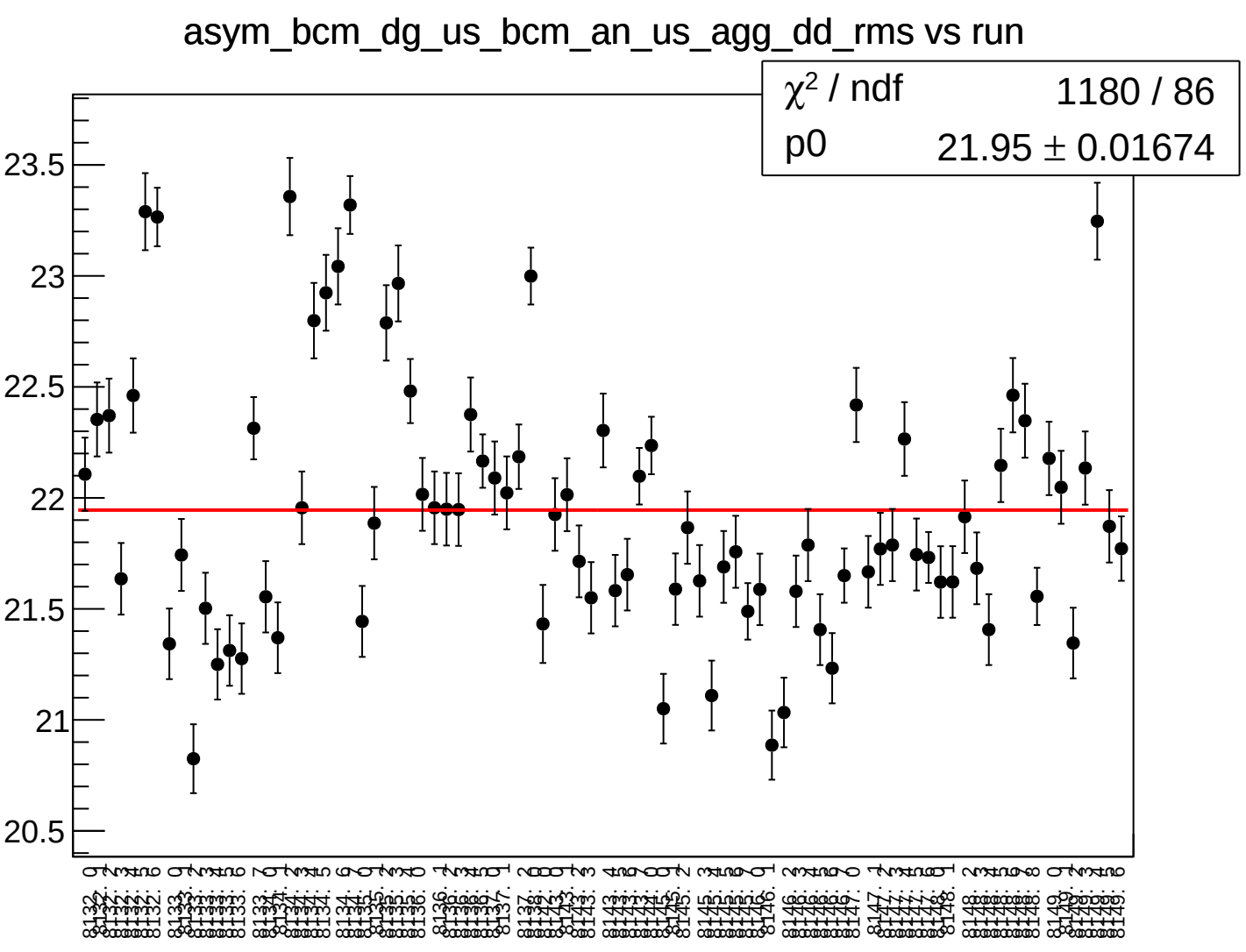

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 20.6 / 86
p0 −322.1± 162.2
4000
2000
0
−2000
−4000
pull
Entries 87
Mean −678.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

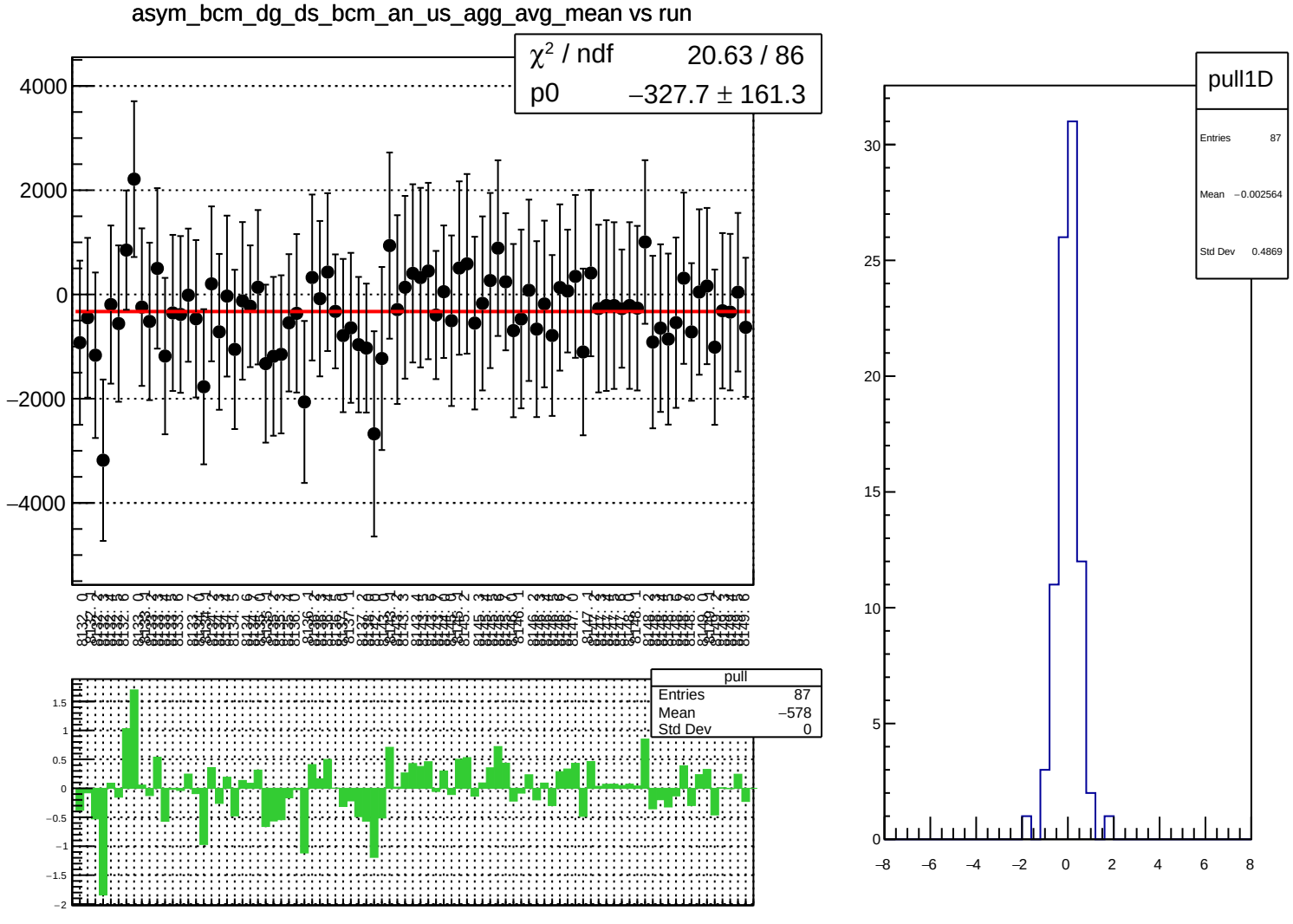

pull1D
Entries 87
Mean −0.002253
Std Dev 0.4866
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

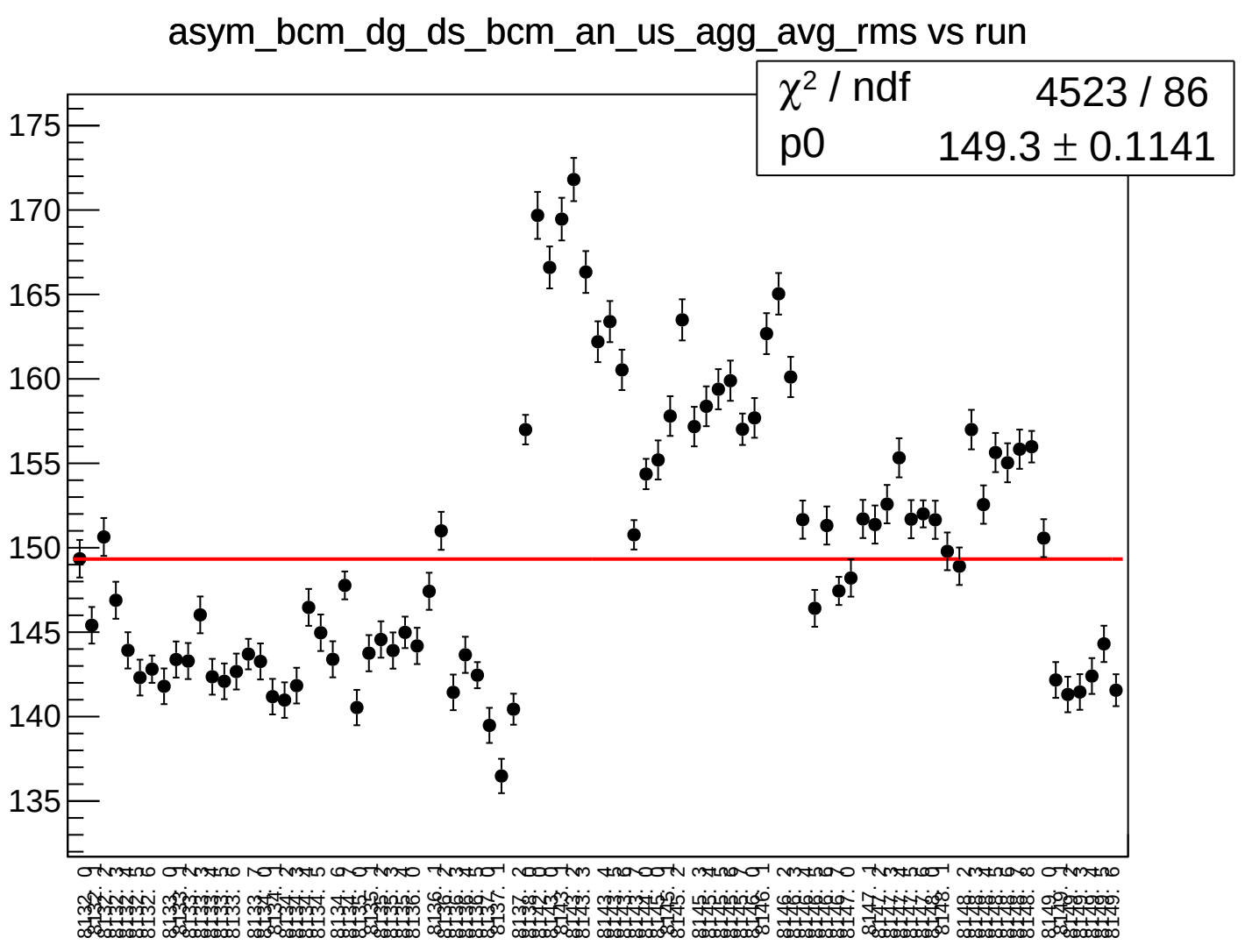

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 4030 / 86
p0 150.2 ± 0.1147
175
170
165
160
155
150
145
140
135

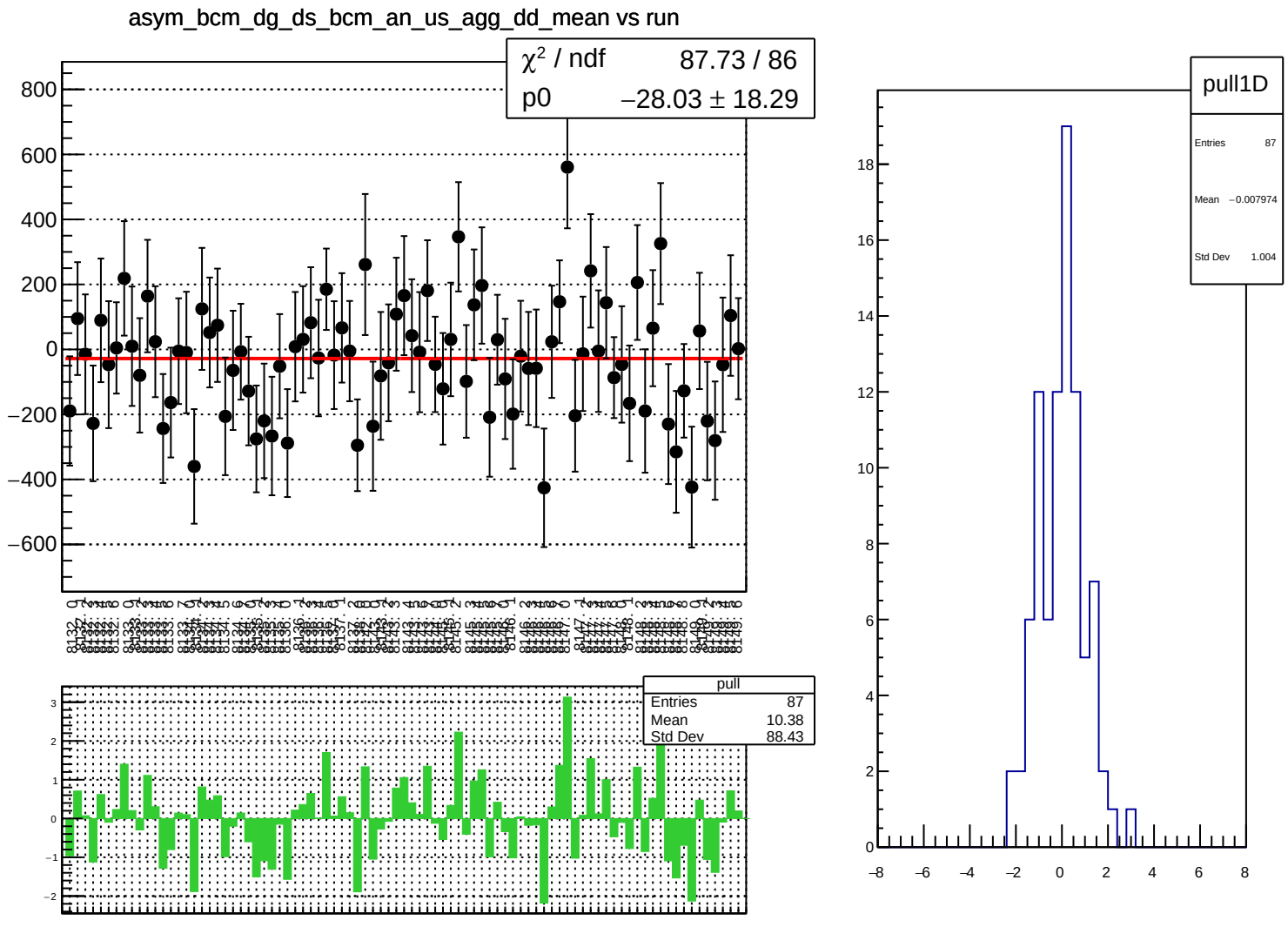

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 88.99 / 86
p0 −24.49 ± 23.68
pull
Entries 87
Mean −6030
Std Dev 0

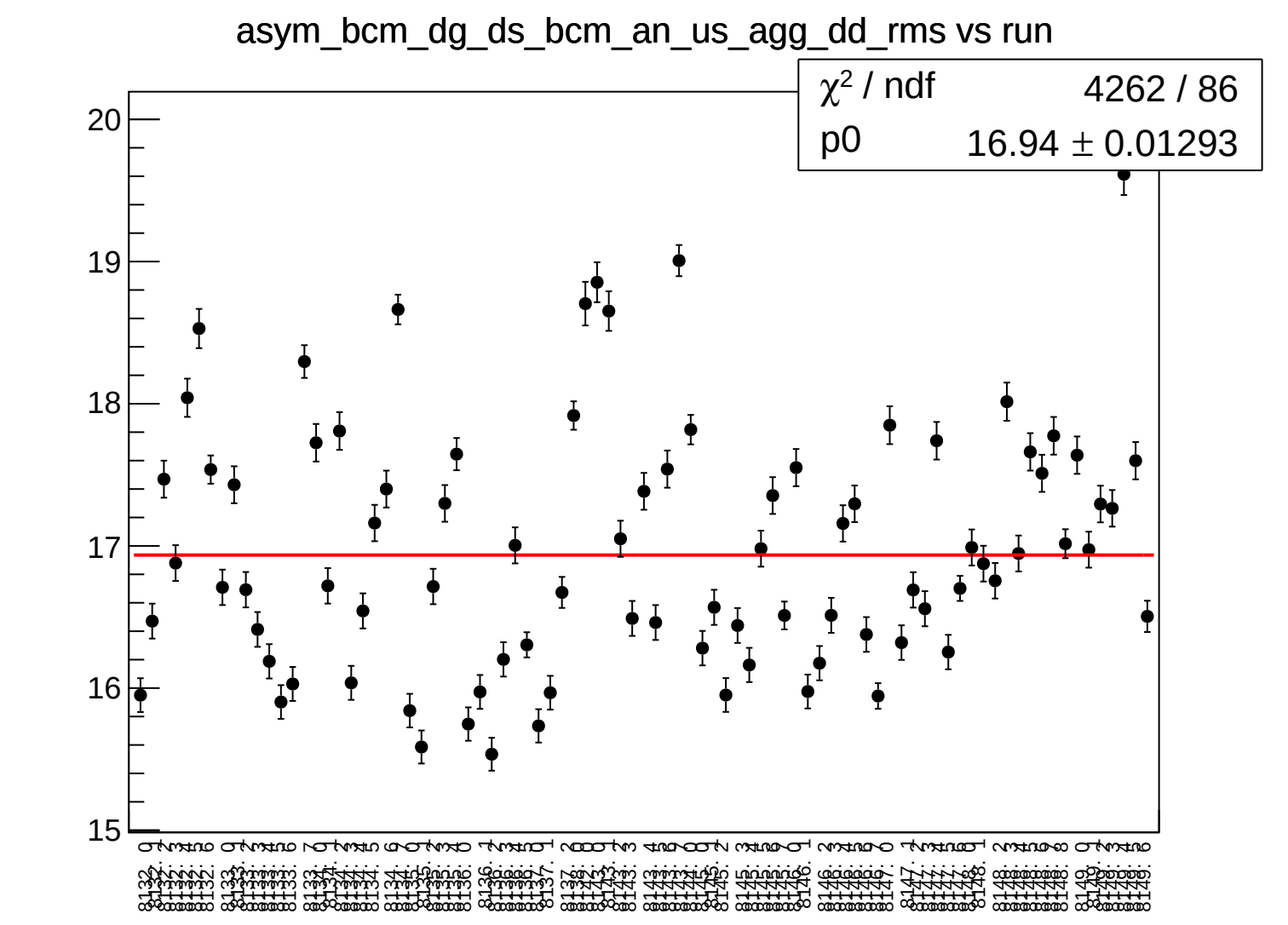

pull1D
Entries 87
Mean −5.941e−05
Std Dev 1.011

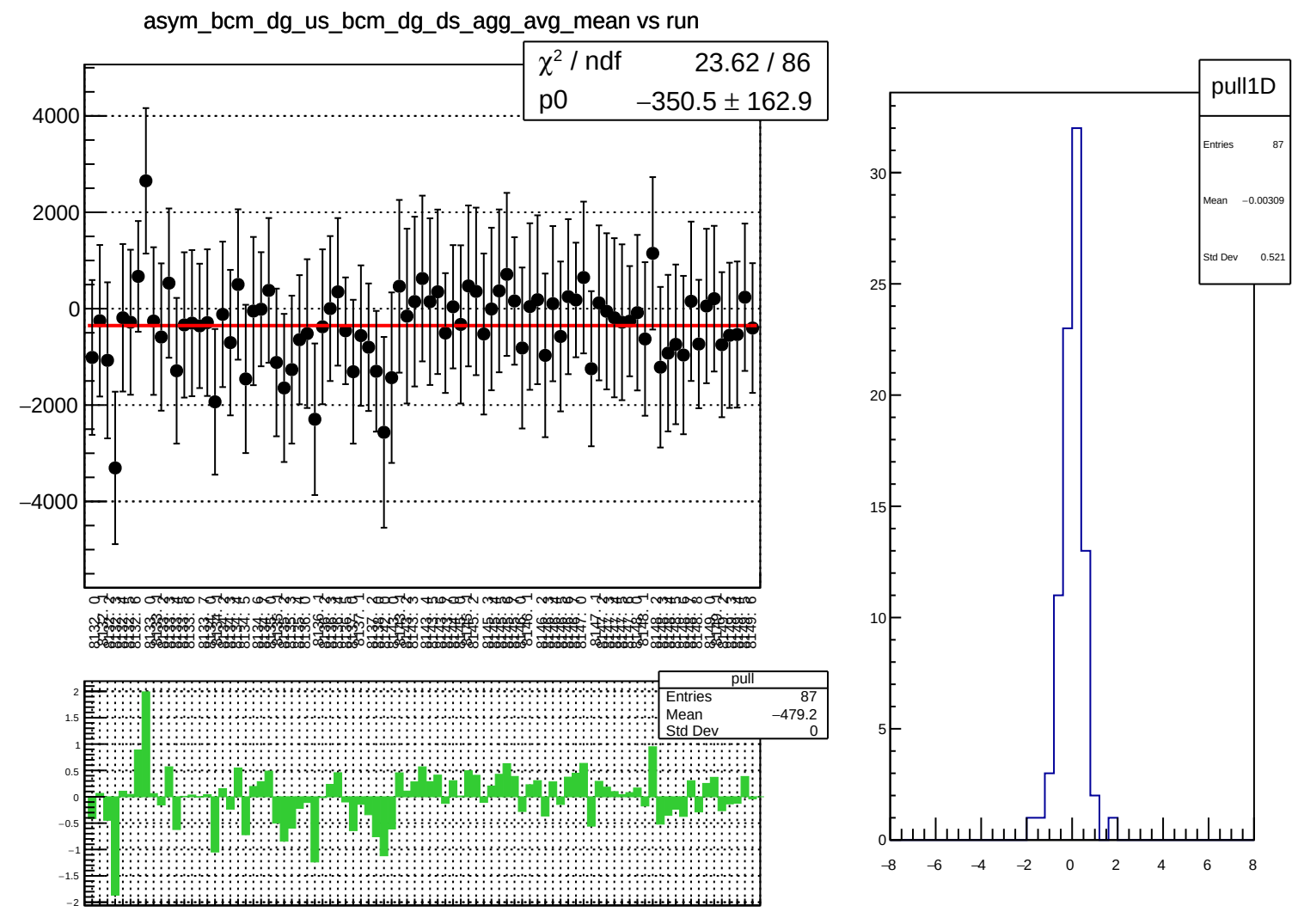

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1180 / 86
p0 21.95 ± 0.01674
23.5
23
22.5
22
21.5
21
20.5

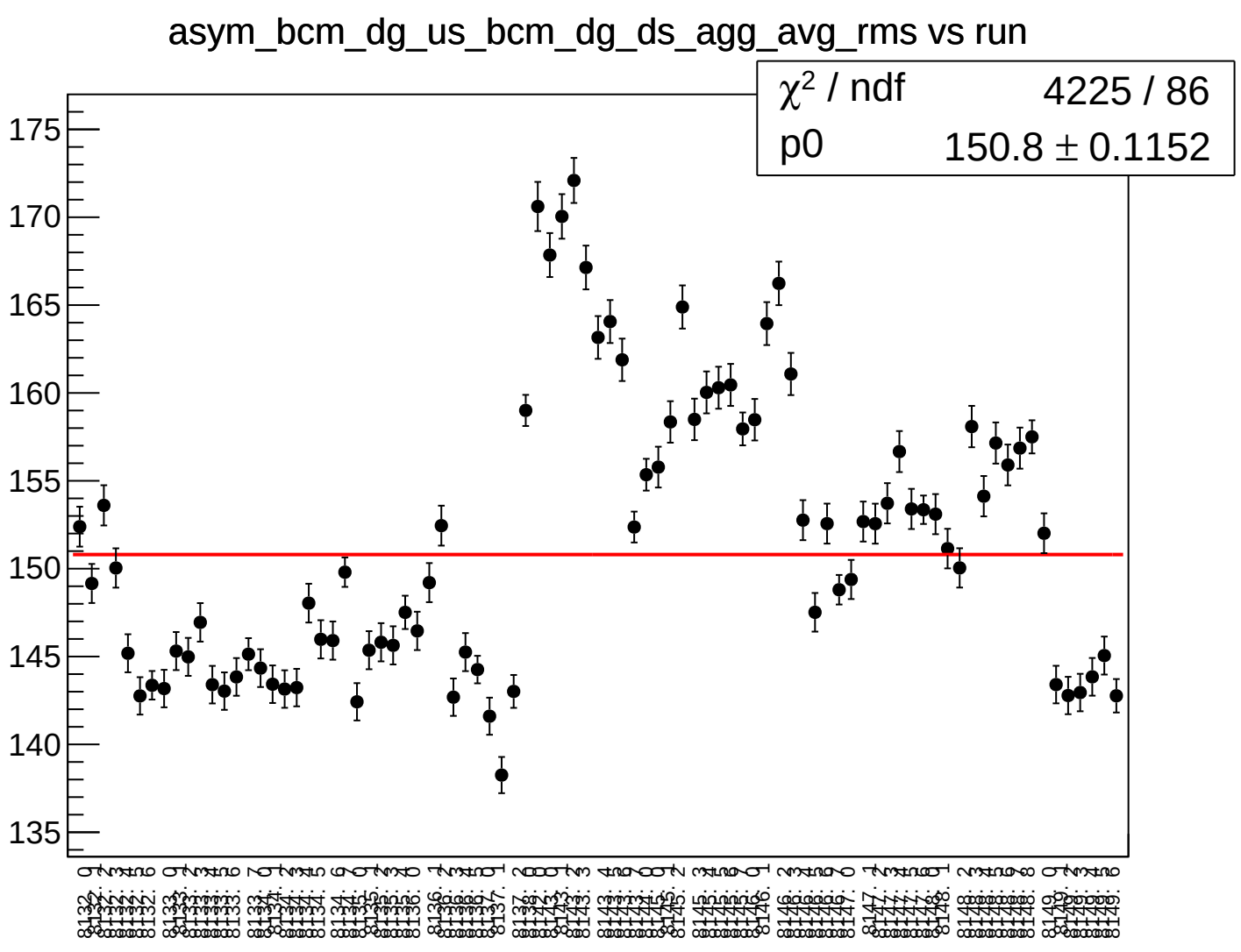

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 20.63 / 86
p0 −327.7 ± 161.3
4000
2000
0
−2000
−4000
pull
Entries 87
Mean −578
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 87
Mean −0.002564
Std Dev 0.4869
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

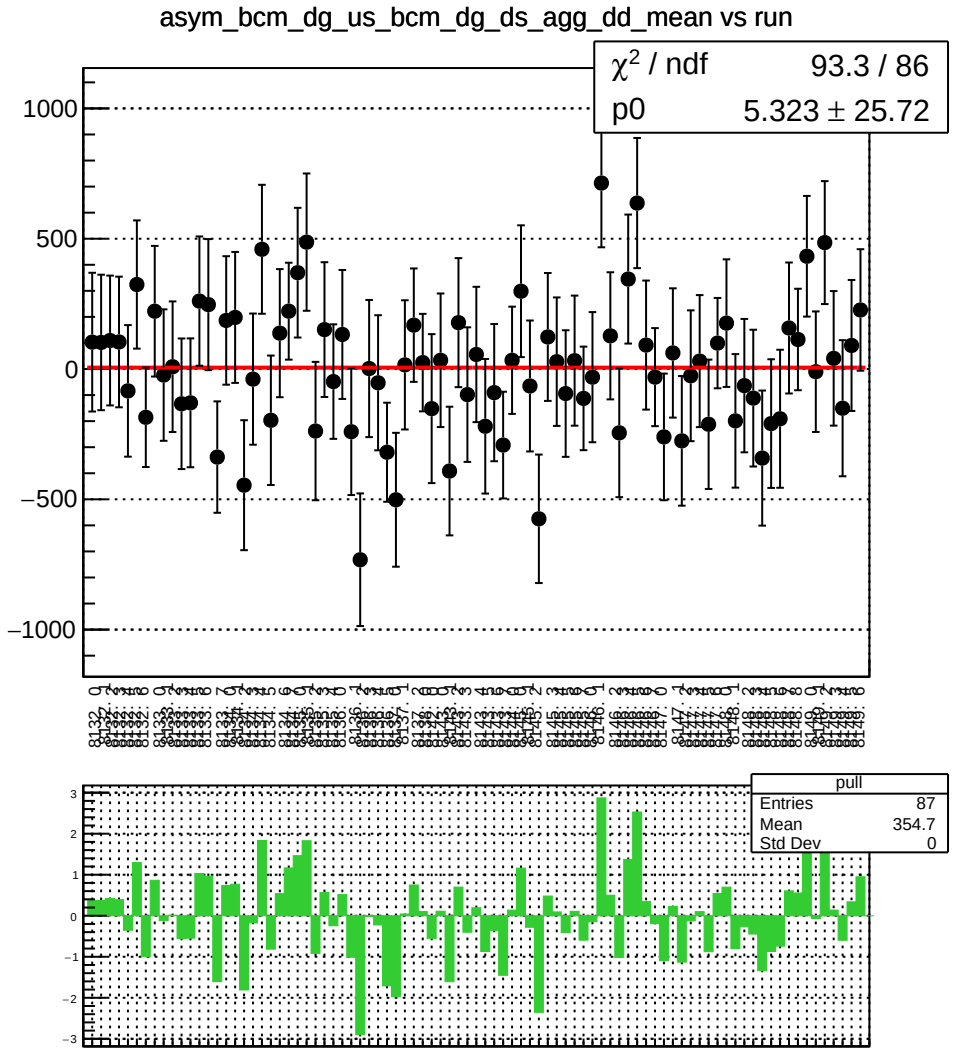

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 4523 / 86
p0 149.3 ± 0.1141
175
170
165
160
155
150
145
140
135

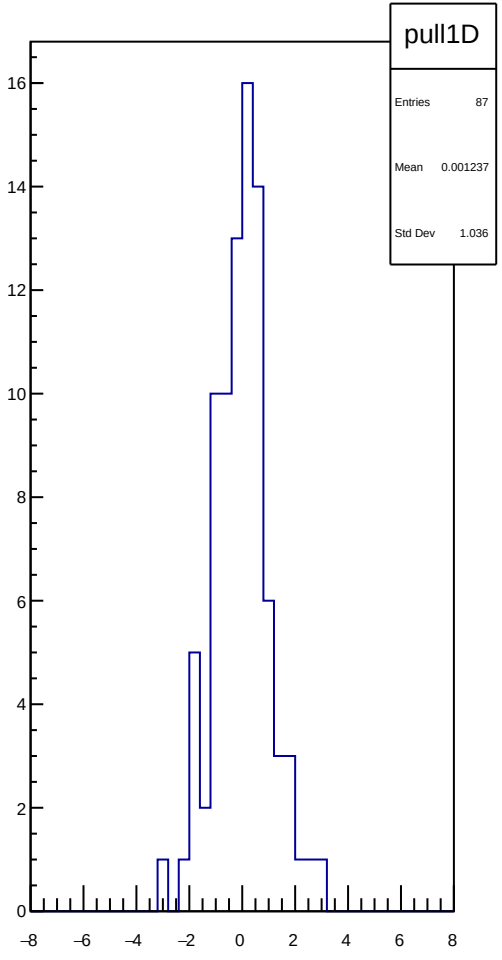

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 87.73 / 86
p0 −28.03 ± 18.29
pull
Entries 87
Mean 10.38
Std Dev 88.43
pull1D
Entries 87
Mean −0.007974
Std Dev 1.004

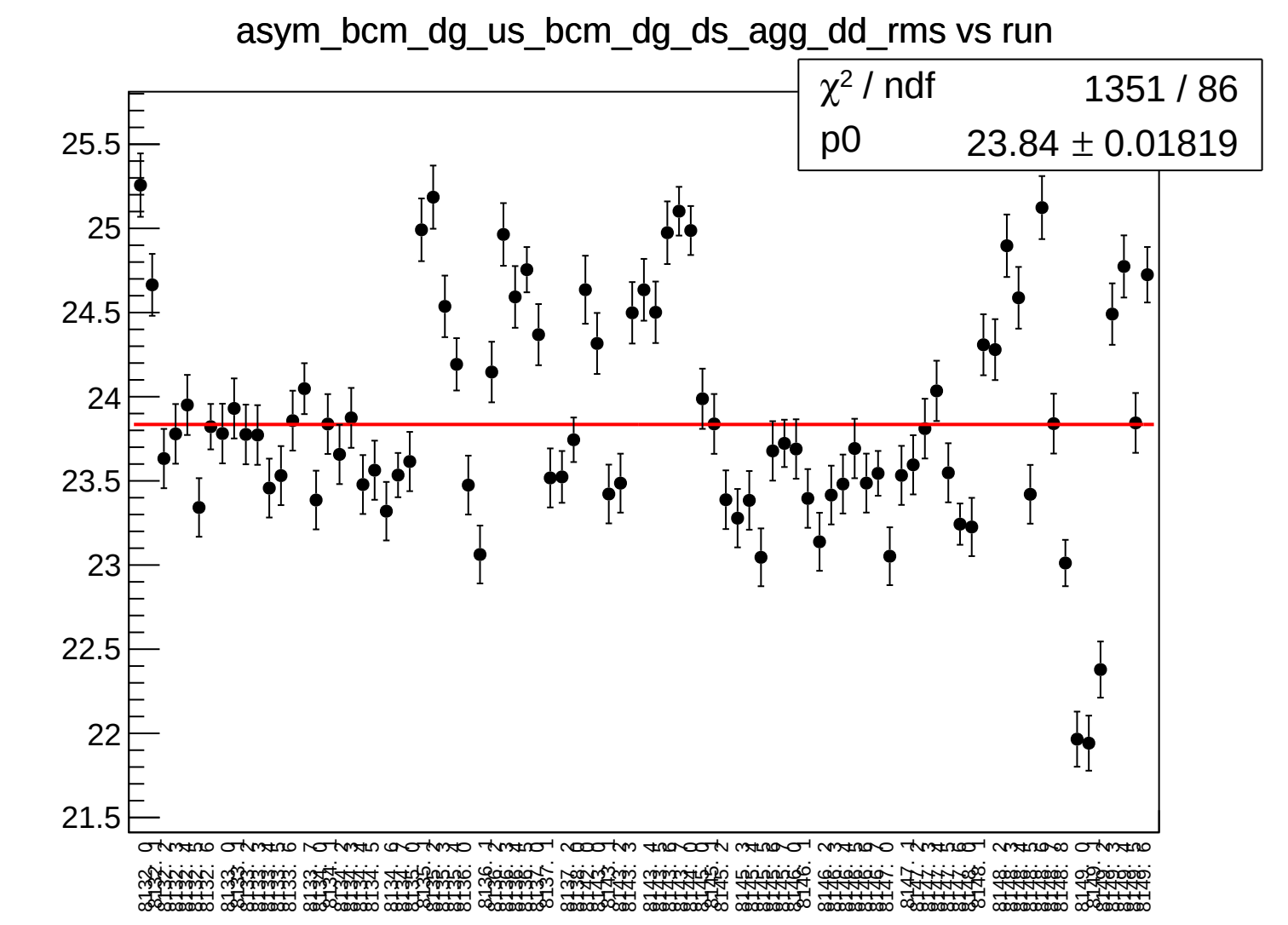

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 4262 / 86
p0 16.94 ± 0.01293
20
19
18
17
16
15

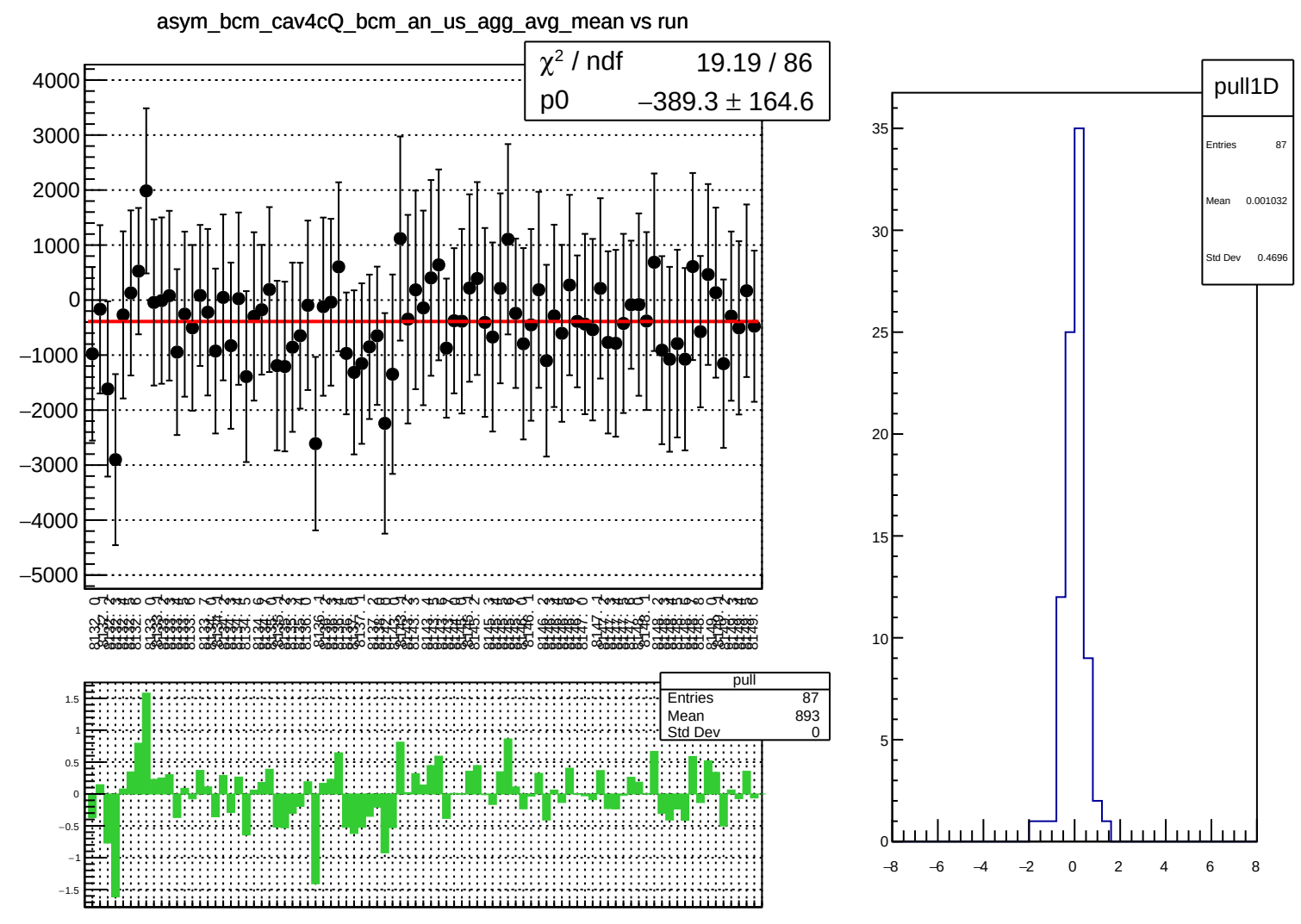

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 23.62 / 86
p0 −350.5 ± 162.9
4000
2000
0
−2000
−4000
pull
Entries 87
Mean −479.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 87
Mean −0.00309
Std Dev 0.521
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

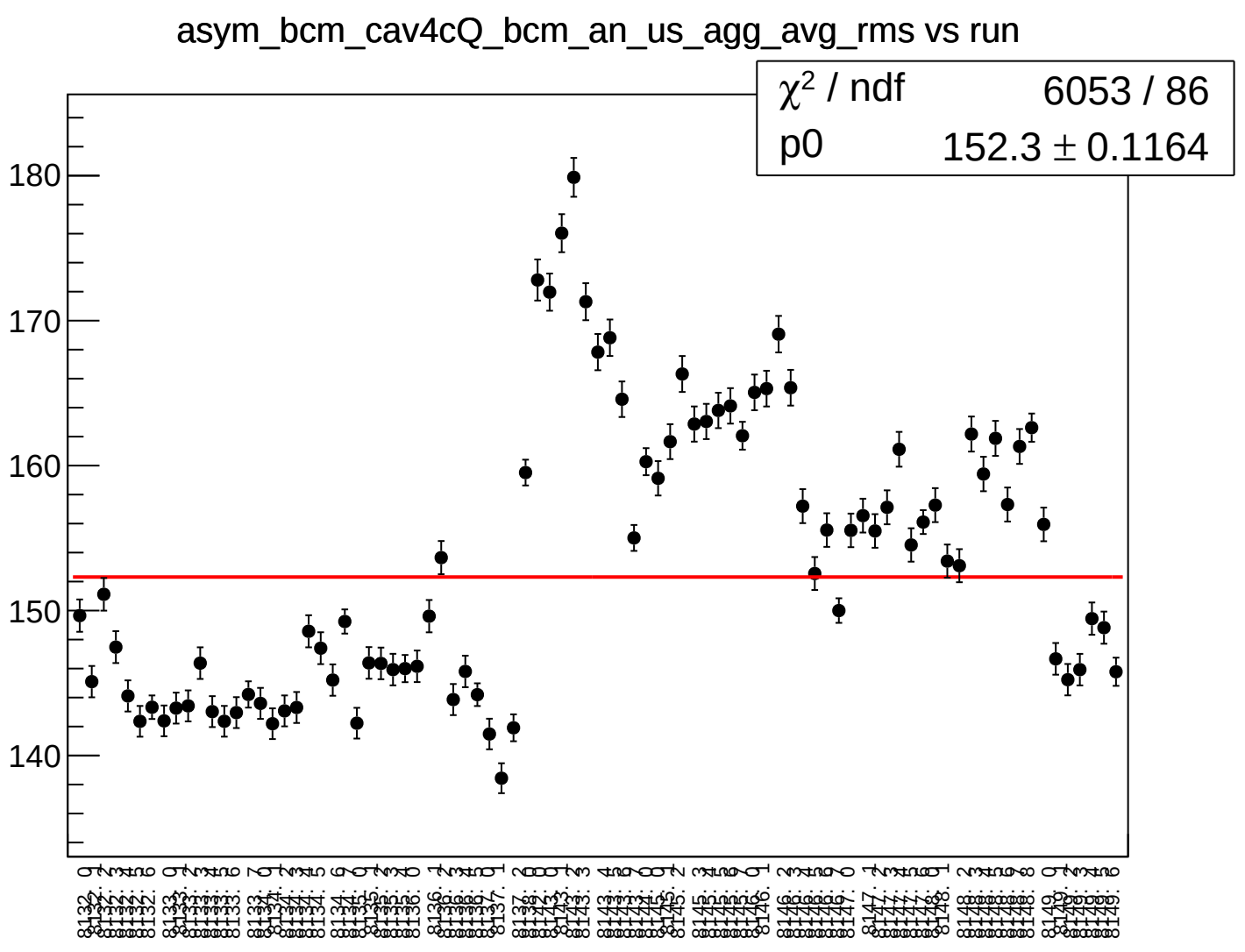

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 4225 / 86
p0 150.8 ± 0.1152
175
170
165
160
155
150
145
140
135

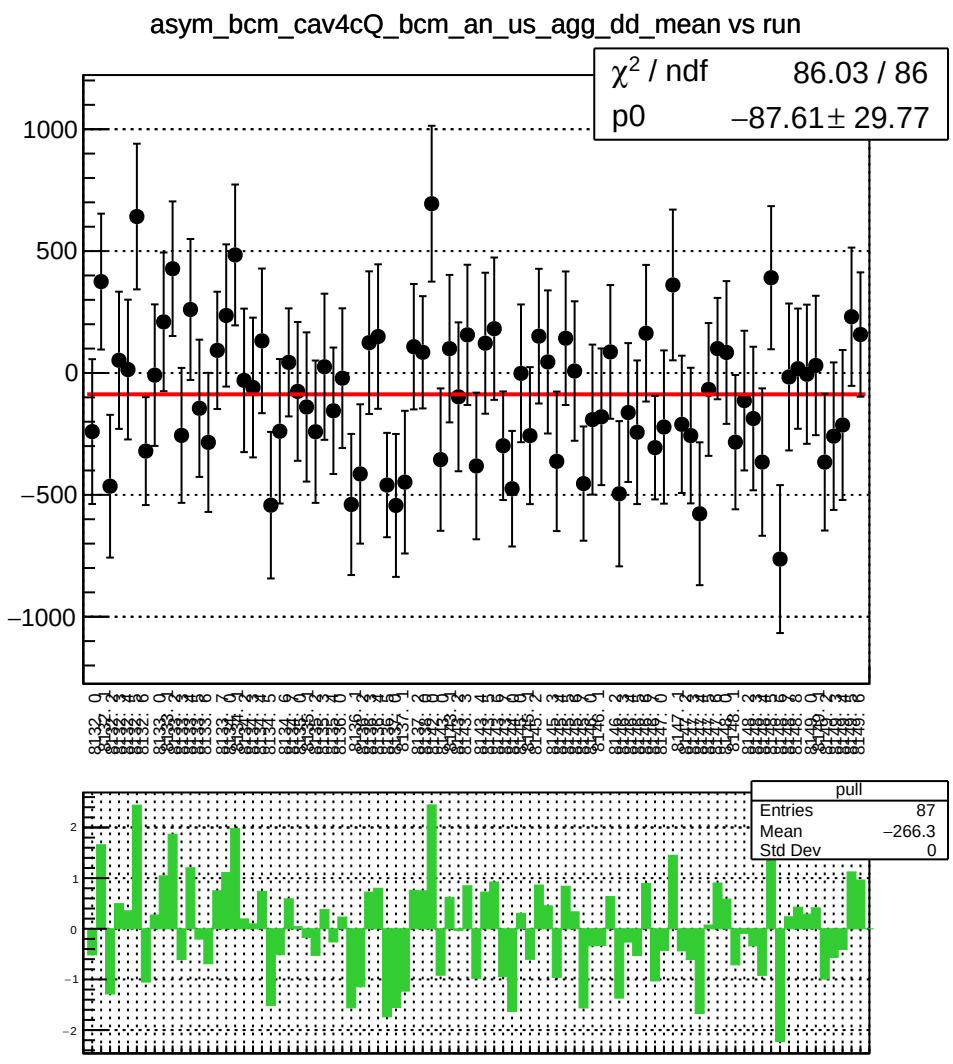

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 93.3 / 86
p0 5.323 ± 25.72
1000
500
0
−500
−1000
pull
Entries 87
Mean 354.7
Std Dev 0
3
2
1
0
−1
−2
−3

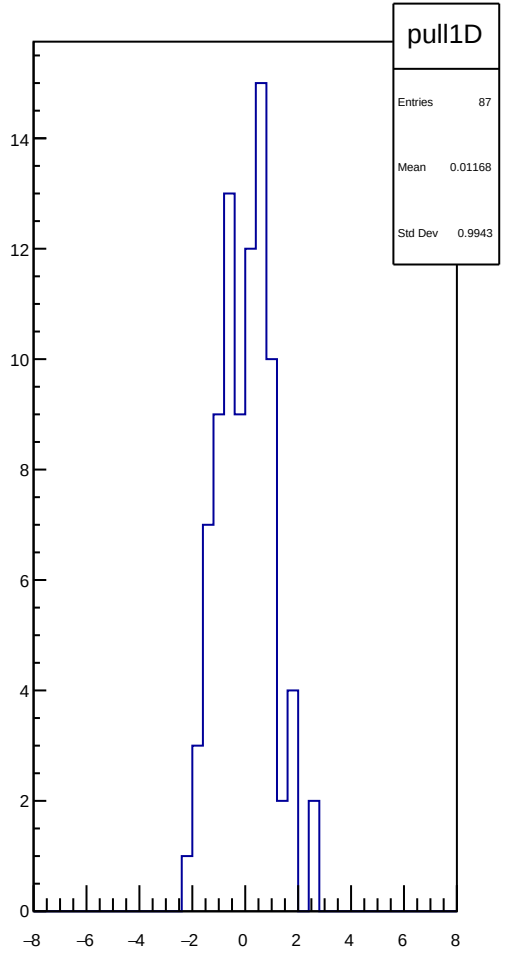

pull1D
Entries 87
Mean 0.001237
Std Dev 1.036
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

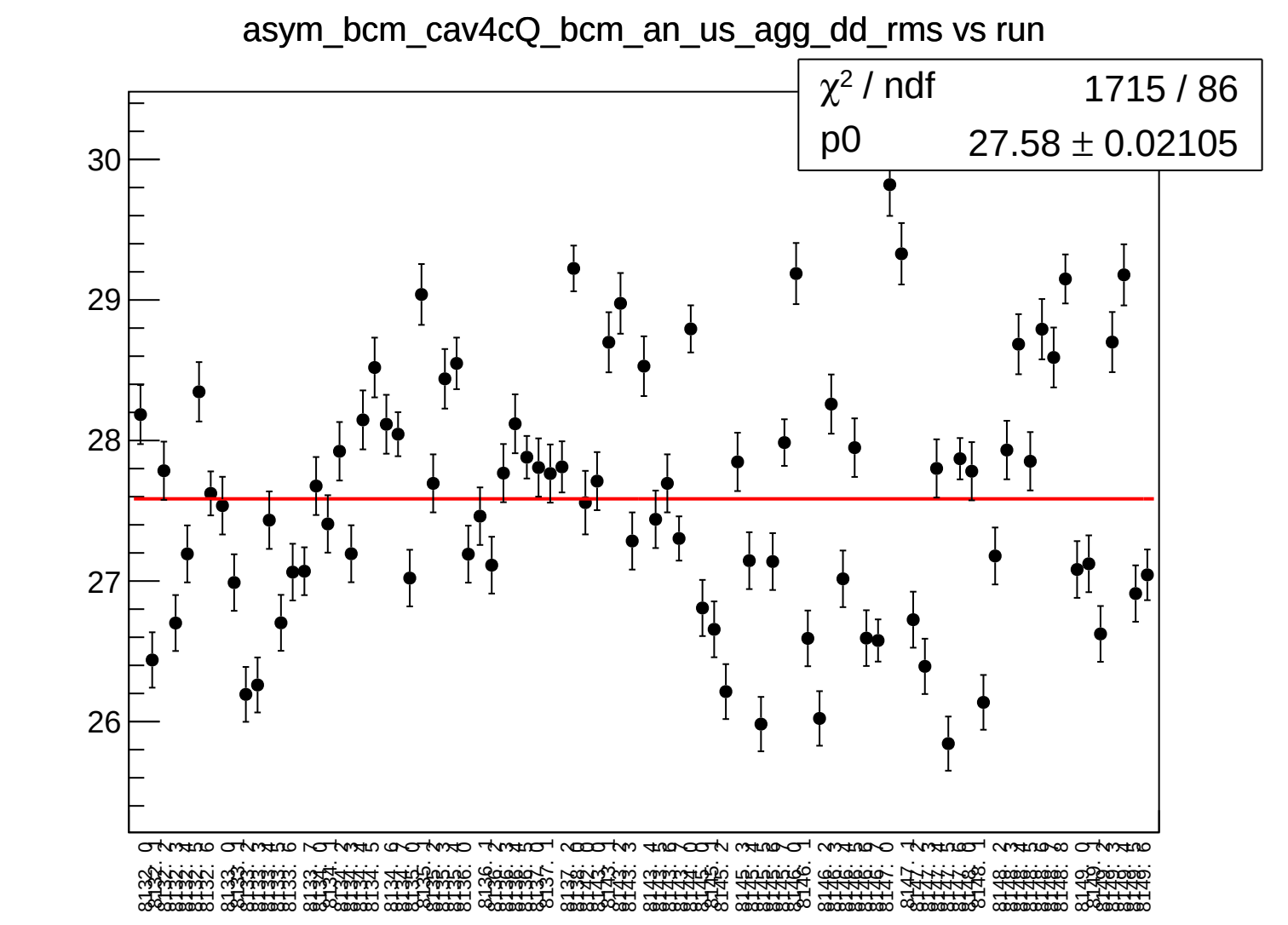

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1351 / 86
p0 23.84 ± 0.01819
25.5
25
24.5
24
23.5
23
22.5
22
21.5

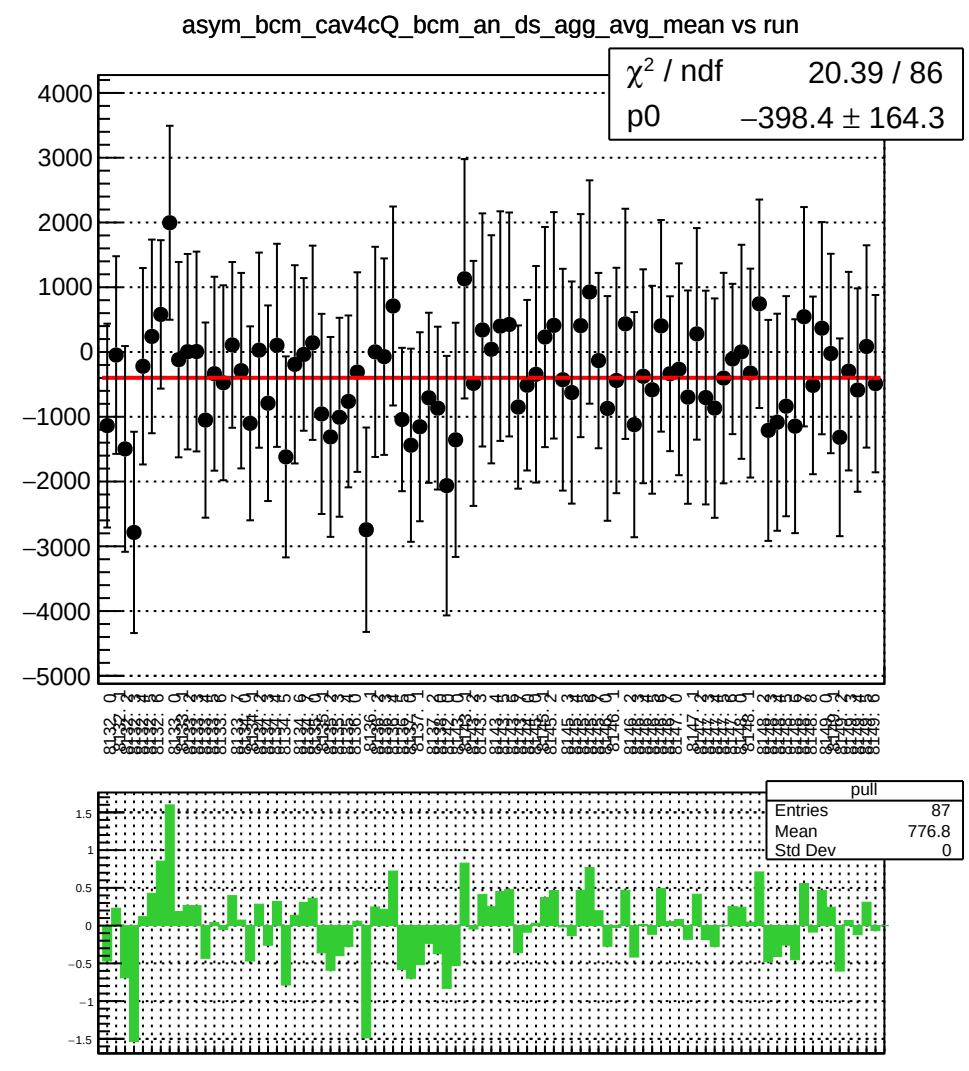

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 19.19 / 86
p0 −389.3 ± 164.6
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
pull
Entries 87
Mean 893
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 87
Mean 0.001032
Std Dev 0.4696
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

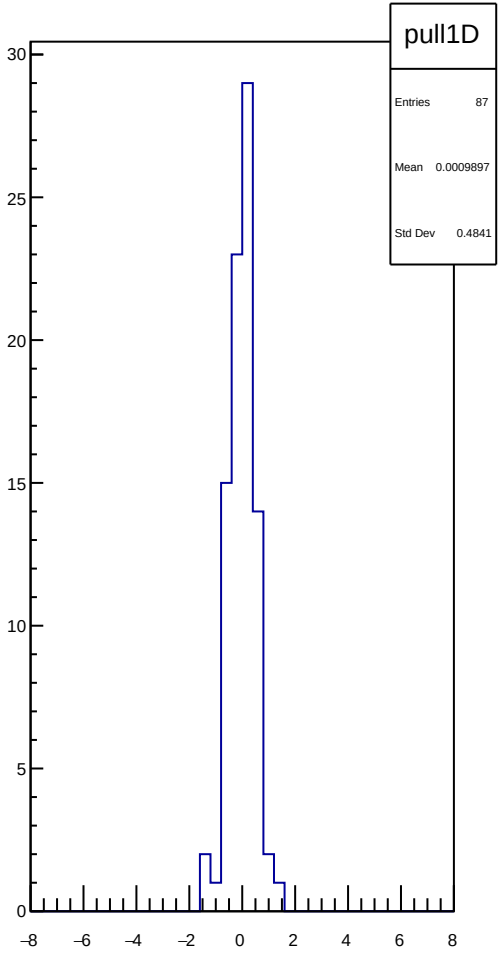

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 6053 / 86
p0 152.3 ± 0.1164
180
170
160
150
140

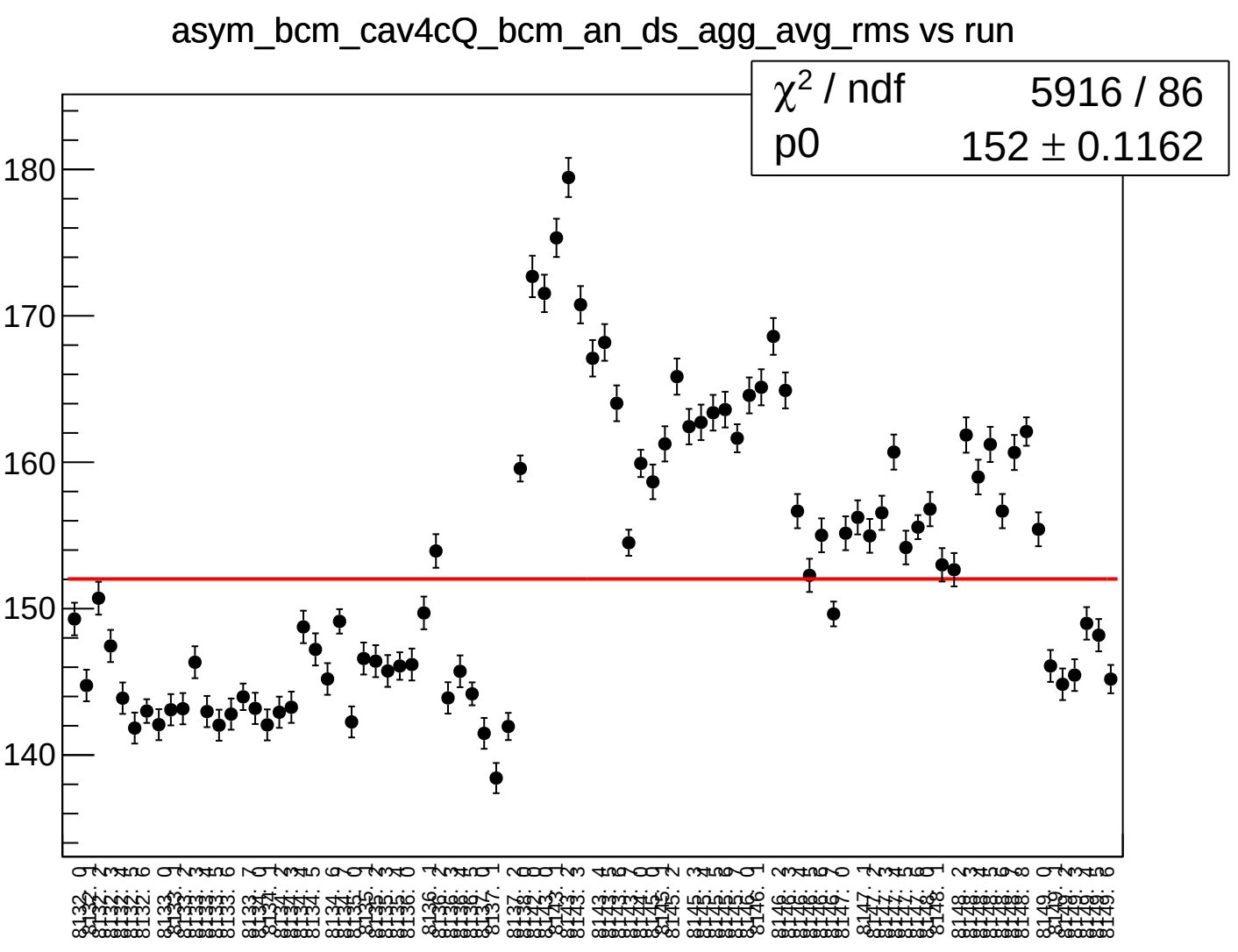

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 86.03 / 86
p0 −87.61 ± 29.77
1000
500
0
−500
−1000
pull
Entries 87
Mean −266.3
Std Dev 0
2
1
0
−1
−2

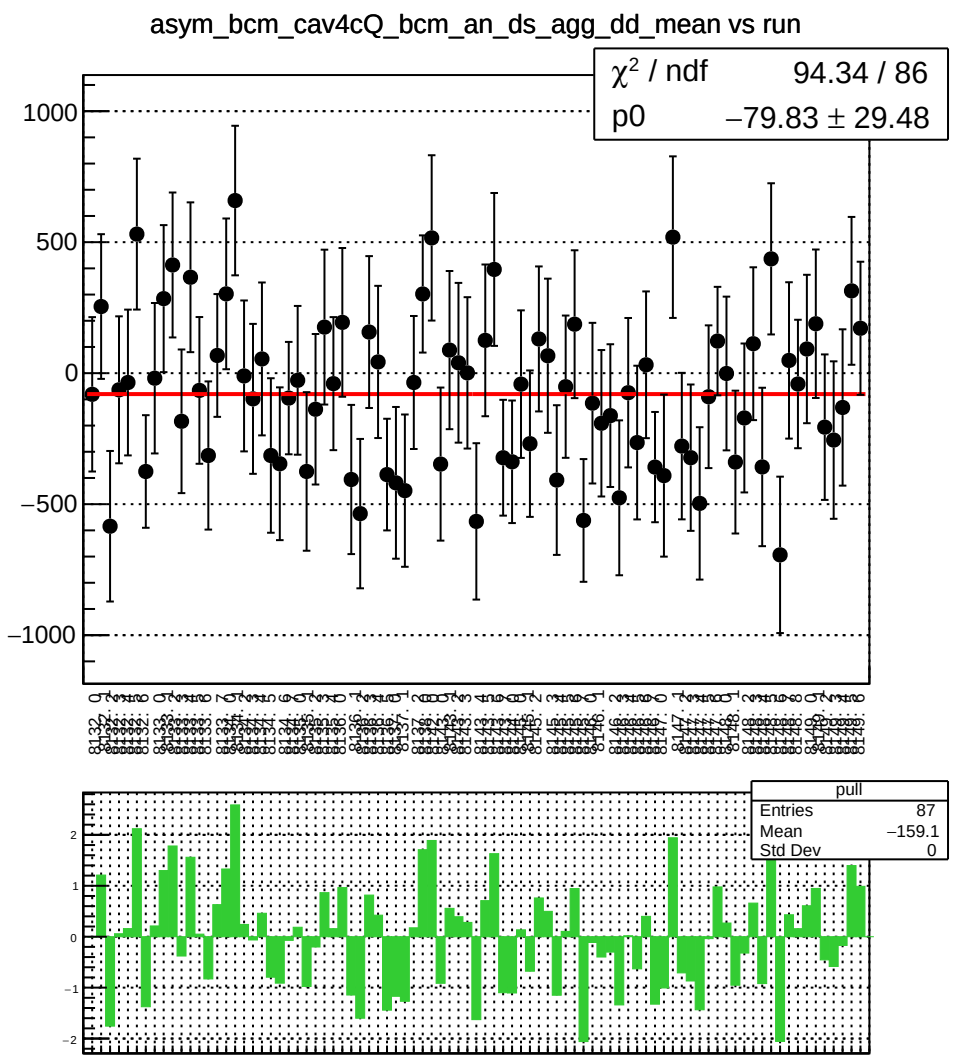

pull1D
Entries 87
Mean 0.01168
Std Dev 0.9943
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

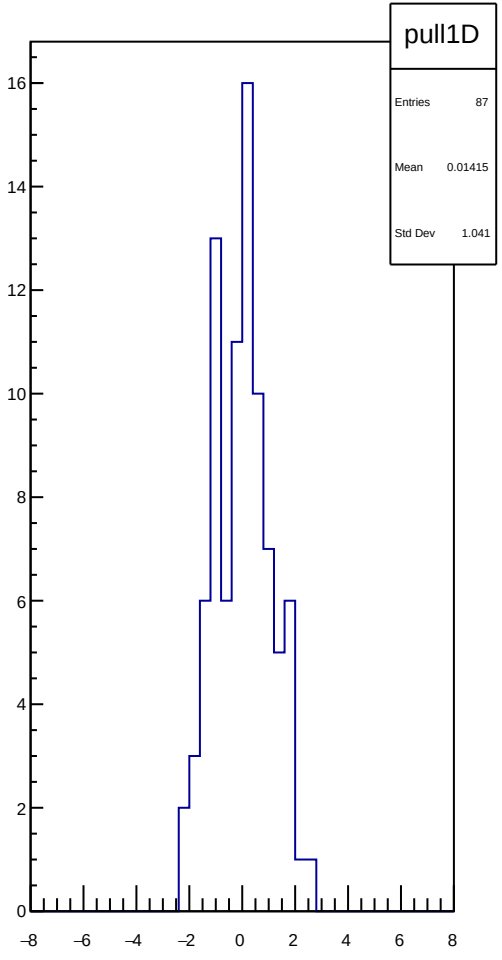

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1715 / 86
p0 27.58 ± 0.02105
30
29
28
27
26


asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 20.39 / 86
p0 −398.4 ± 164.3
pull
Entries 87
Mean 776.8
Std Dev 0


pull1D
Entries 87
Mean 0.0009897
Std Dev 0.4841


asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 5916 / 86
p0 152 ± 0.1162
180
170
160
150
140


asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 94.34 / 86
p0 −79.83 ± 29.48
1000
500
0
−500
−1000
pull
Entries 87
Mean −159.1
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 87
Mean 0.01415
Std Dev 1.041
16
14
12
10
8
6
4
2
0
−8
−6
−4
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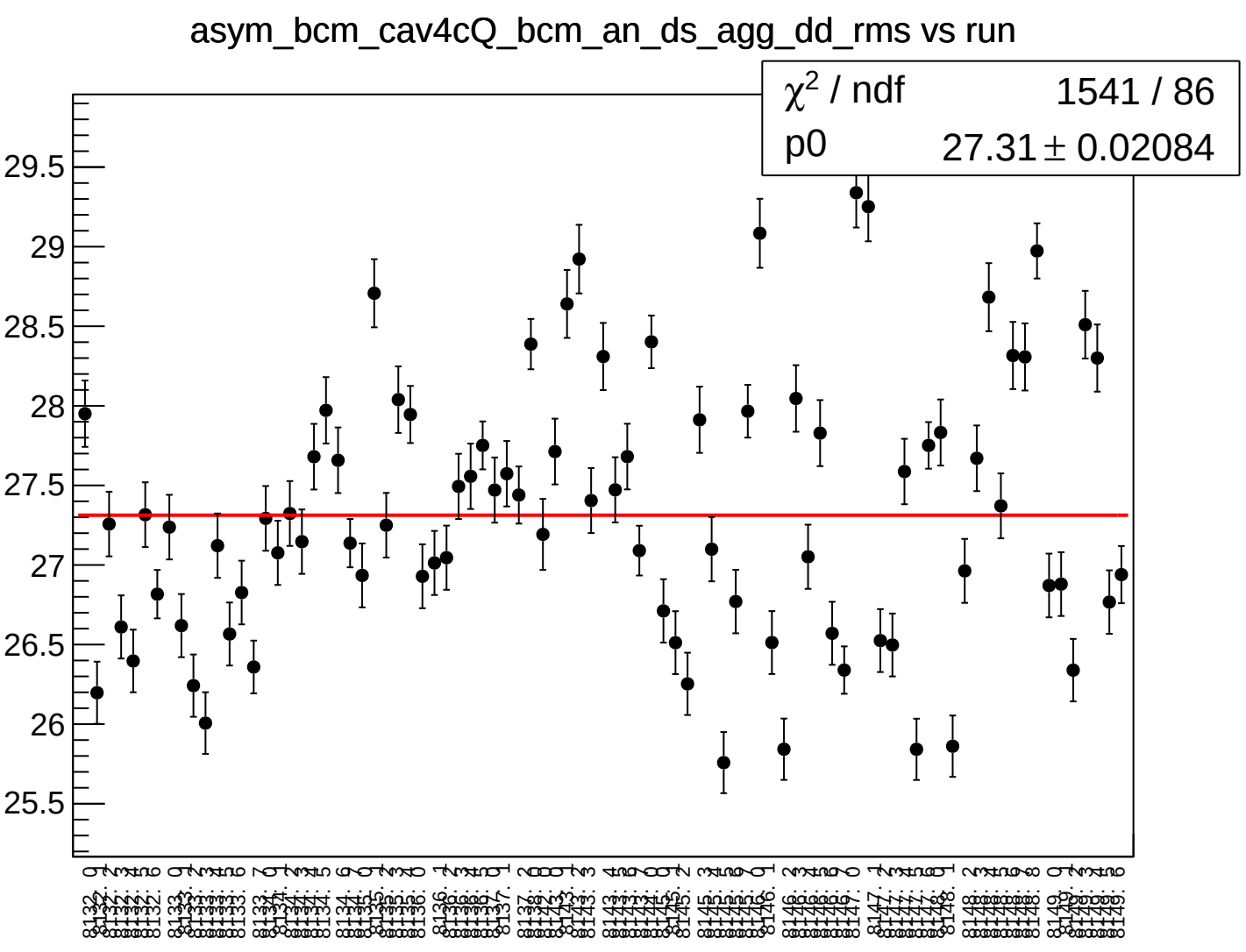
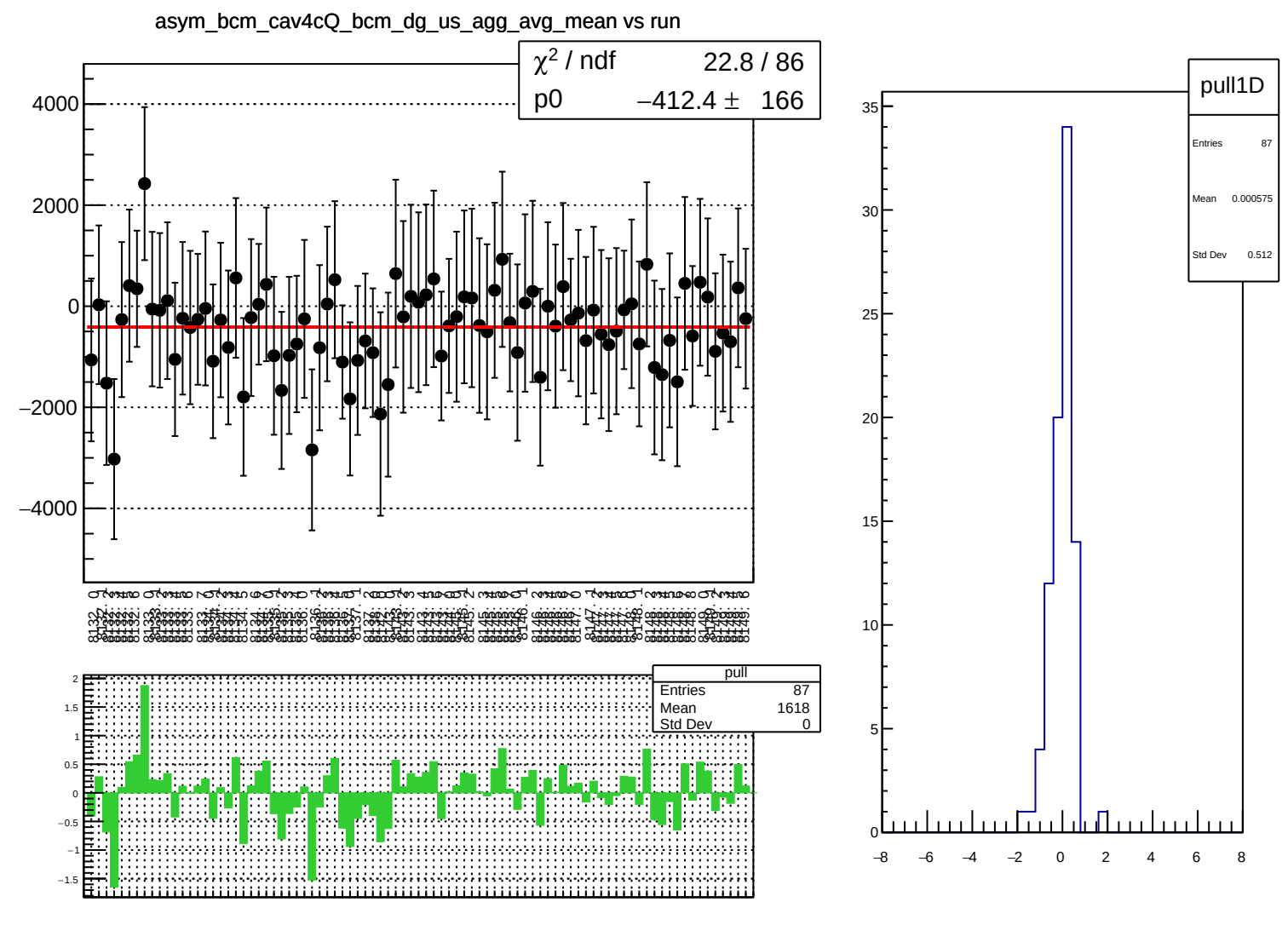
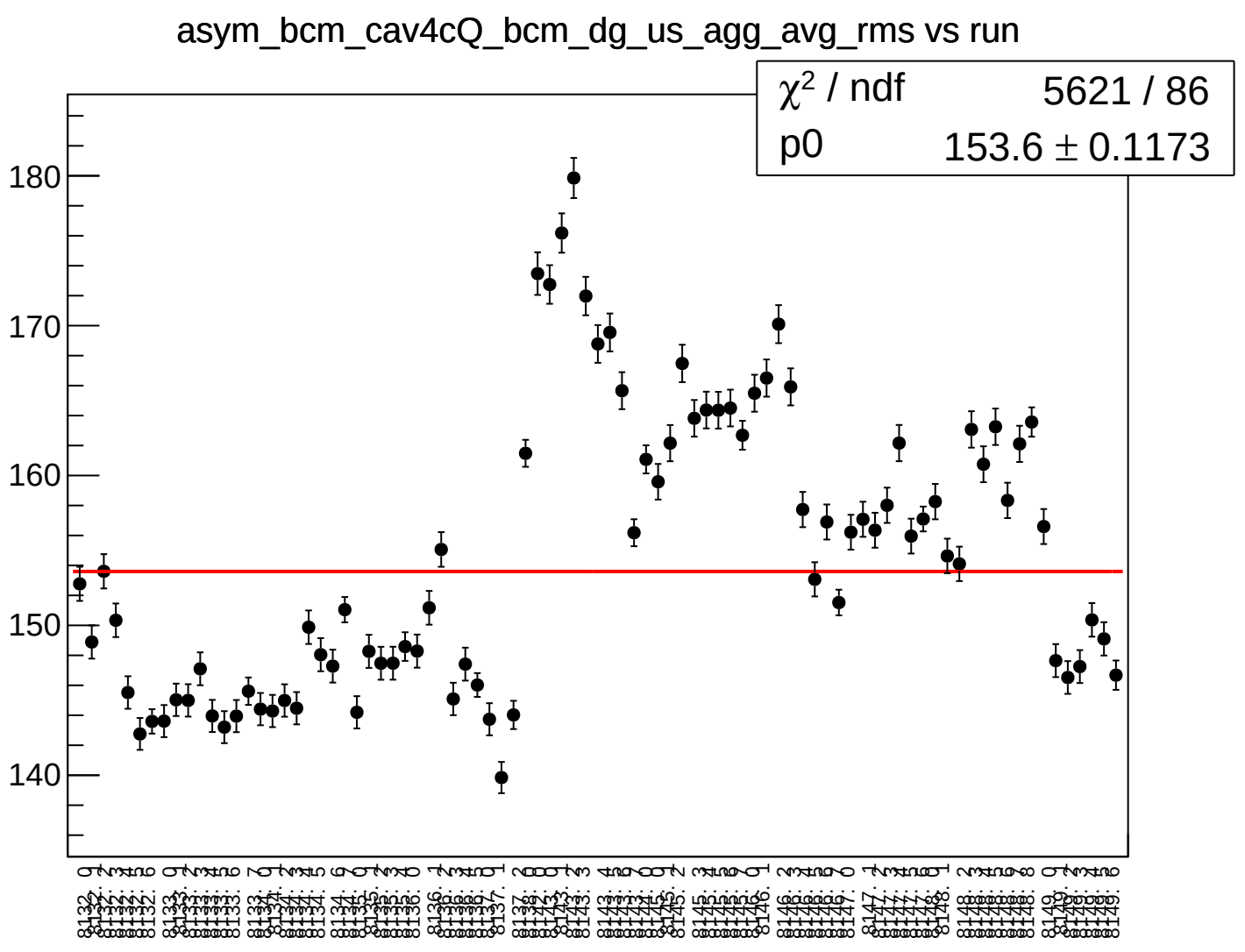
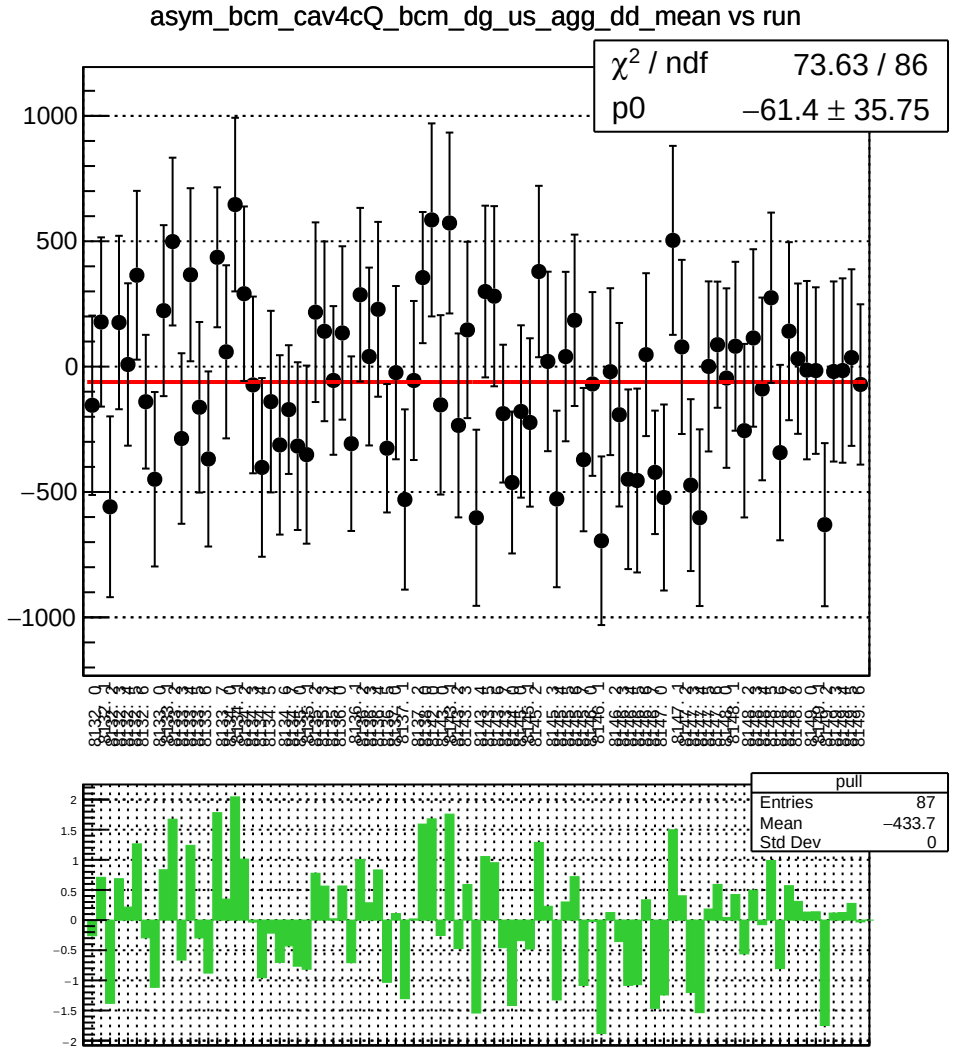
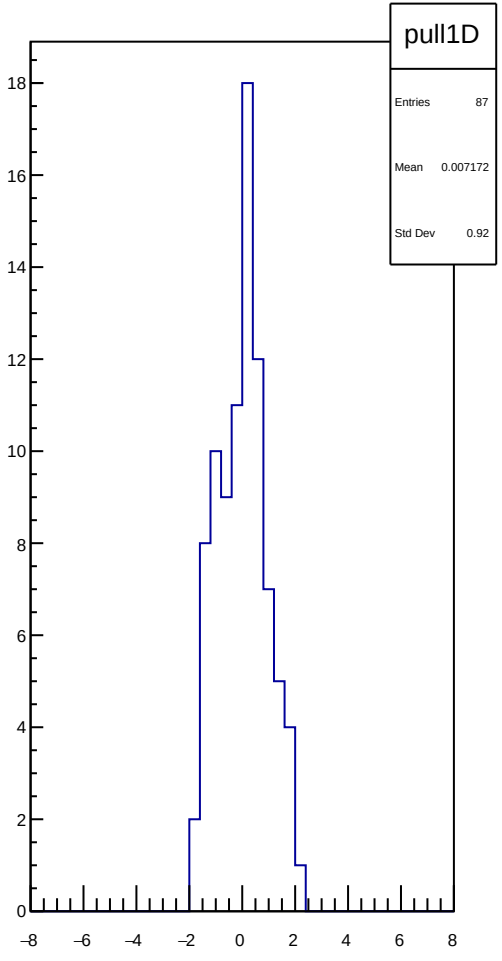
0
2
4
6
8

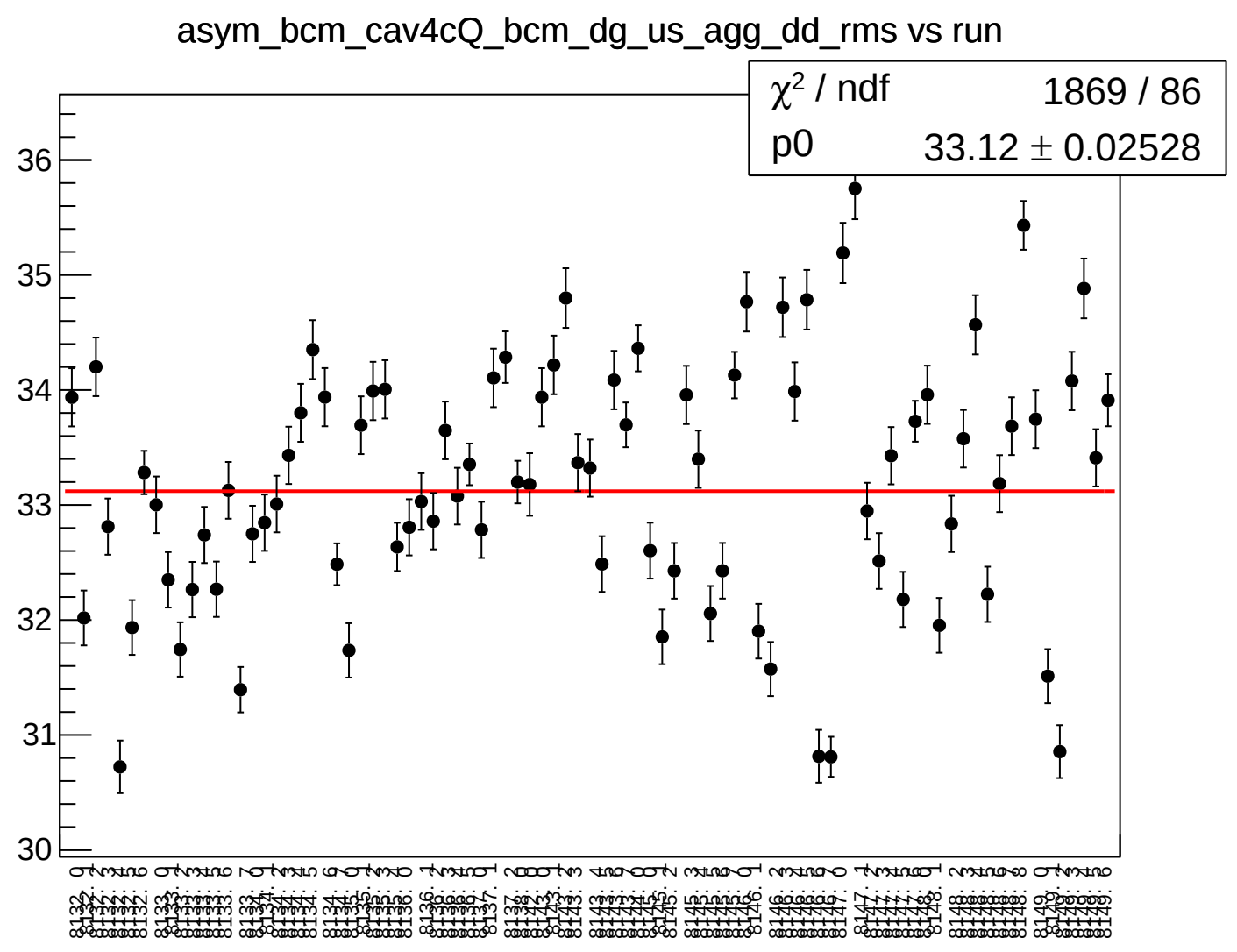

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1541 / 86
p0 27.31 ± 0.02084
29.5
29
28.5
28
27.5
27
26.5
26
25.5

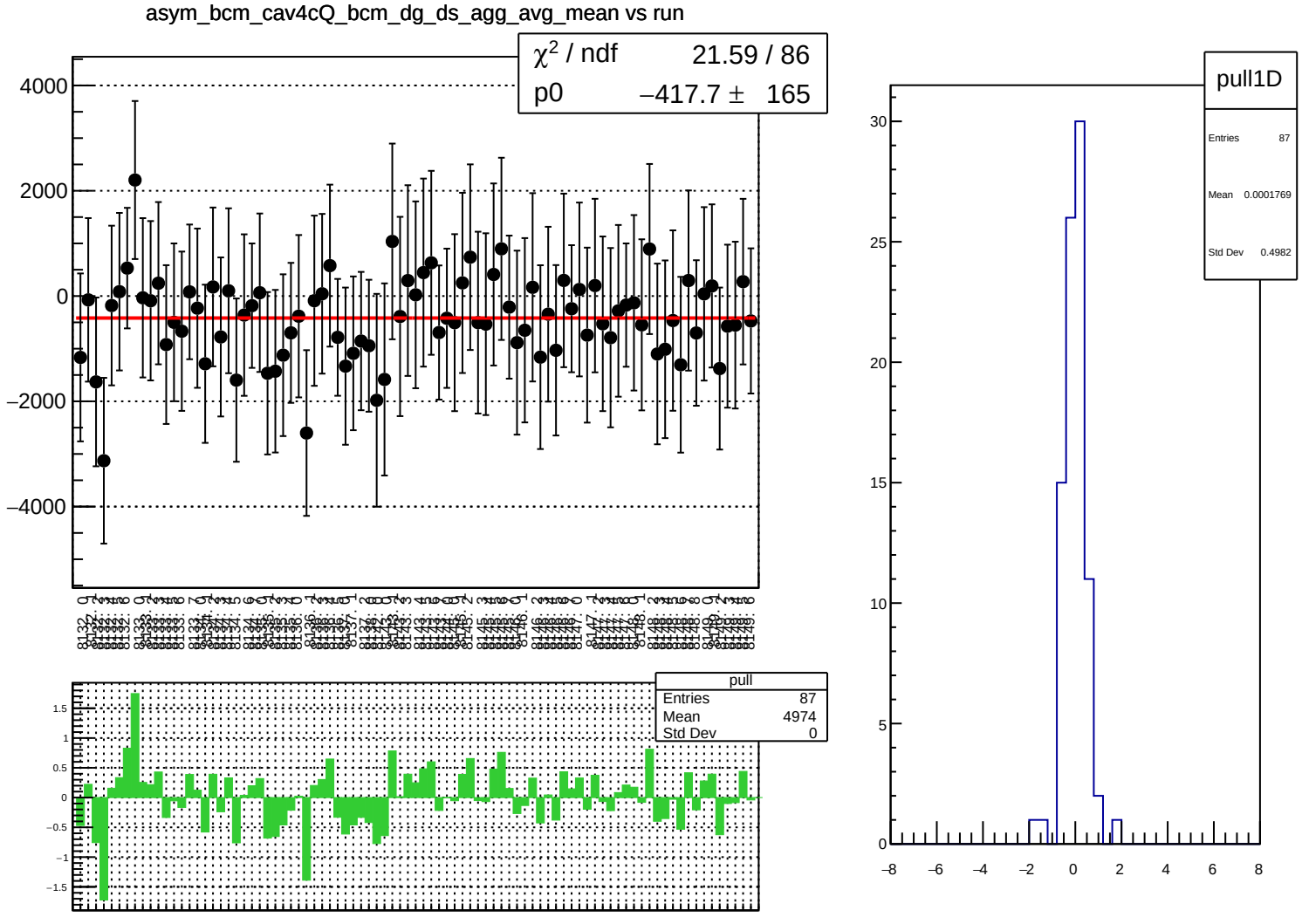

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 22.8 / 86
p0 −412.4 ± 166
4000
2000
0
−2000
−4000
pull
Entries 87
Mean 1618
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 87
Mean 0.000575
Std Dev 0.512
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

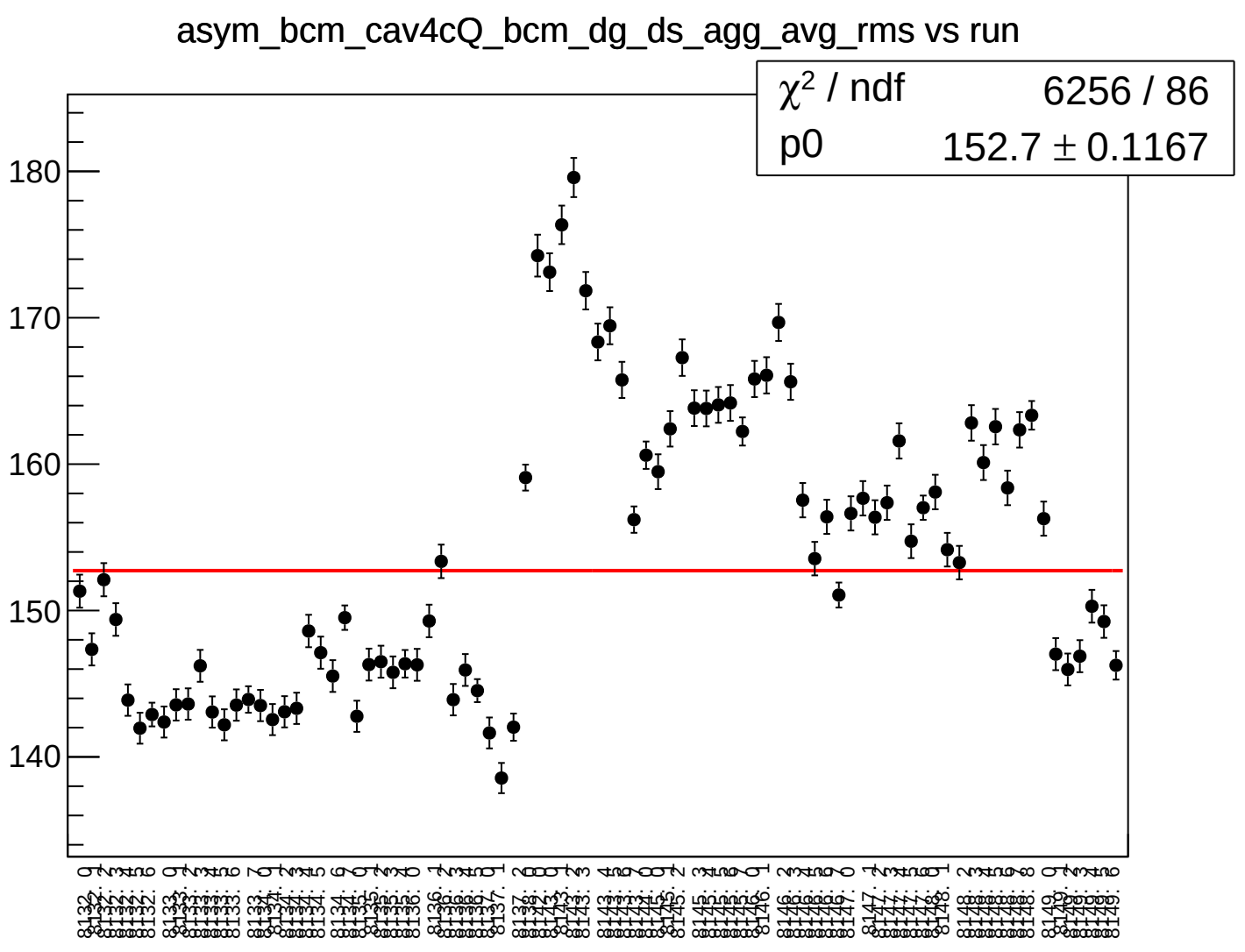

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 5621 / 86
p0 153.6 ± 0.1173
180
170
160
150
140

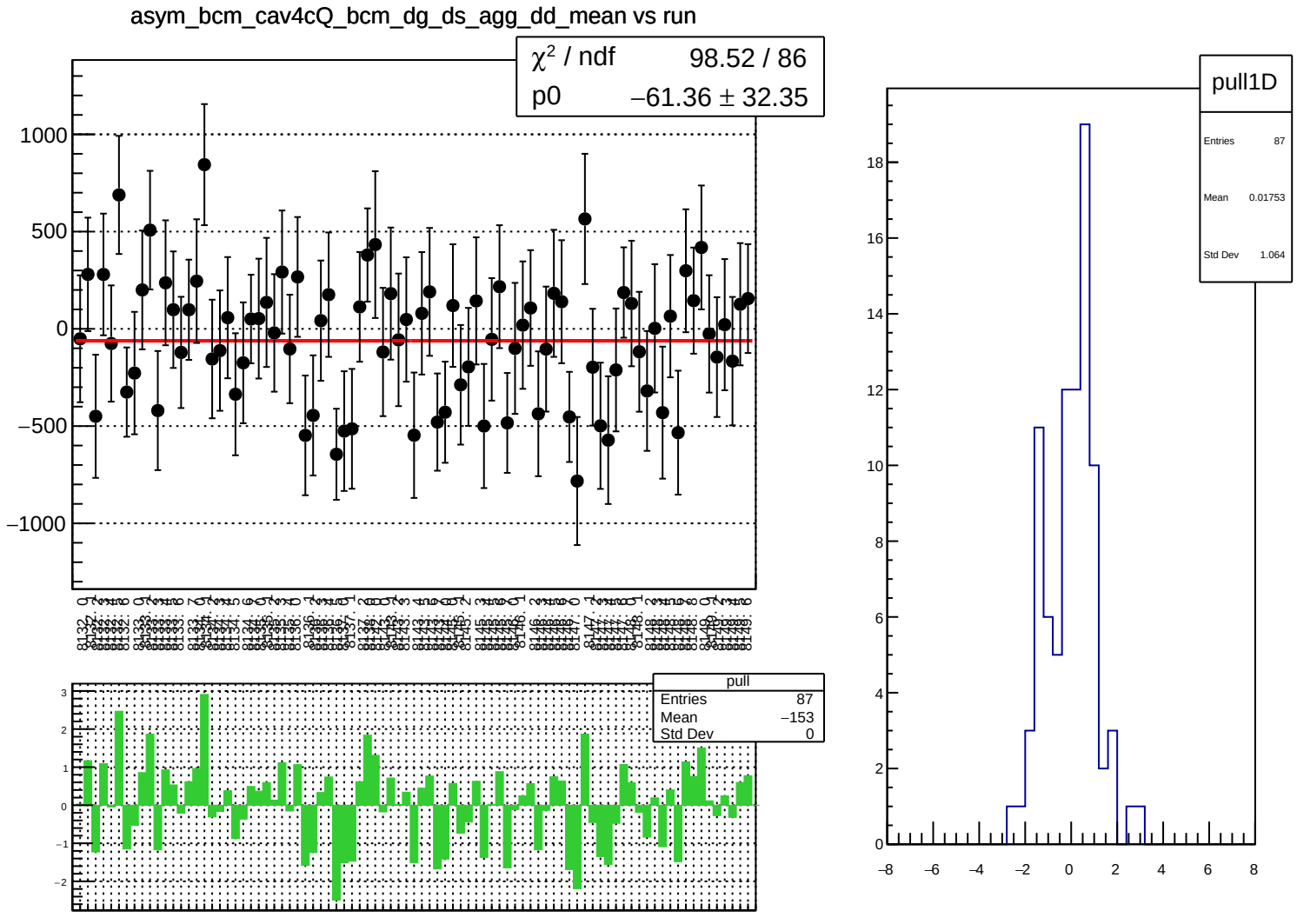

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 73.63 / 86
p0 −61.4 ± 35.75
1000
500
0
−500
−1000
pull
Entries 87
Mean −433.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

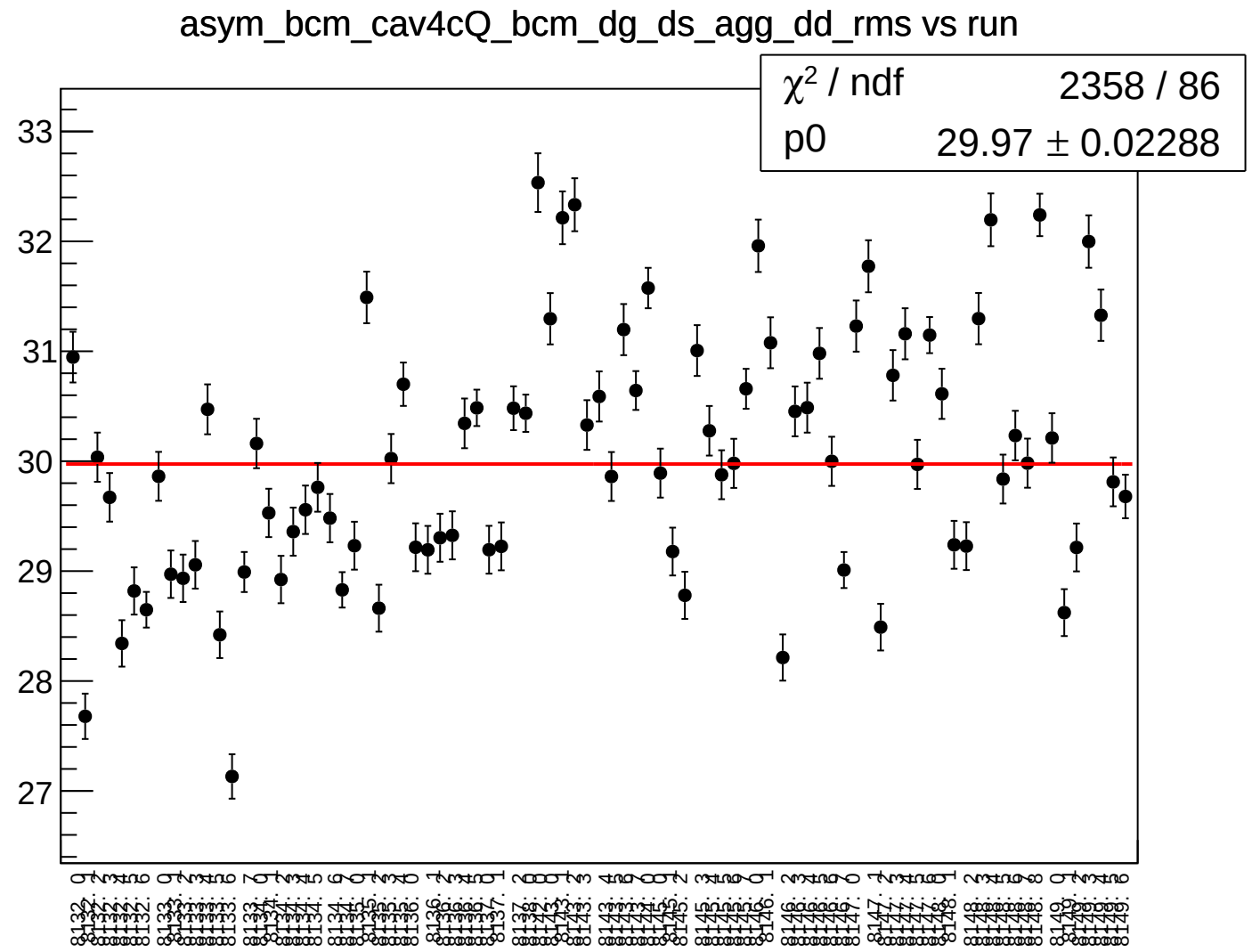

pull1D
Entries 87
Mean 0.007172
Std Dev 0.92
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

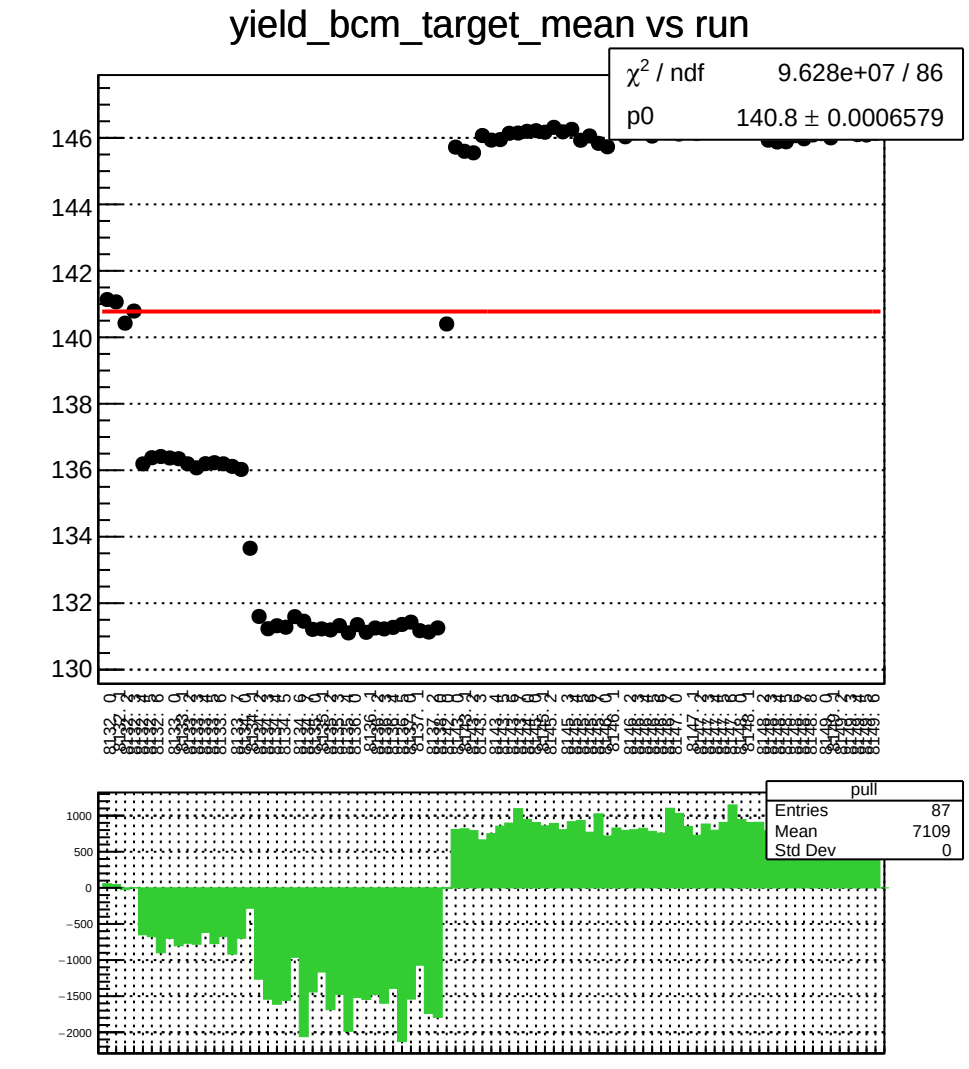

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1869 / 86
p0 33.12 ± 0.02528
36
35
34
33
32
31
30

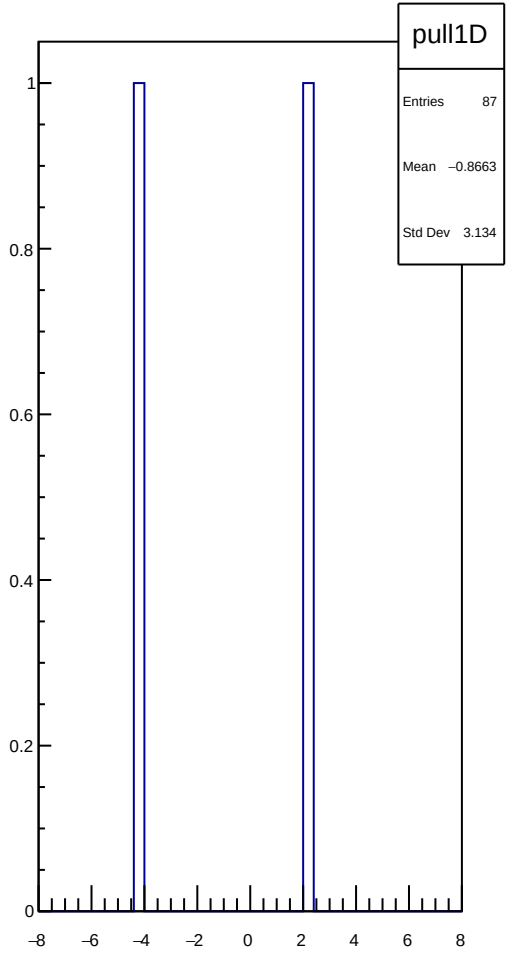

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 21.59 / 86
p0 −417.7 ± 165
4000
2000
0
−2000
−4000
pull
Entries 87
Mean 4974
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 87
Mean 0.0001769
Std Dev 0.4982
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

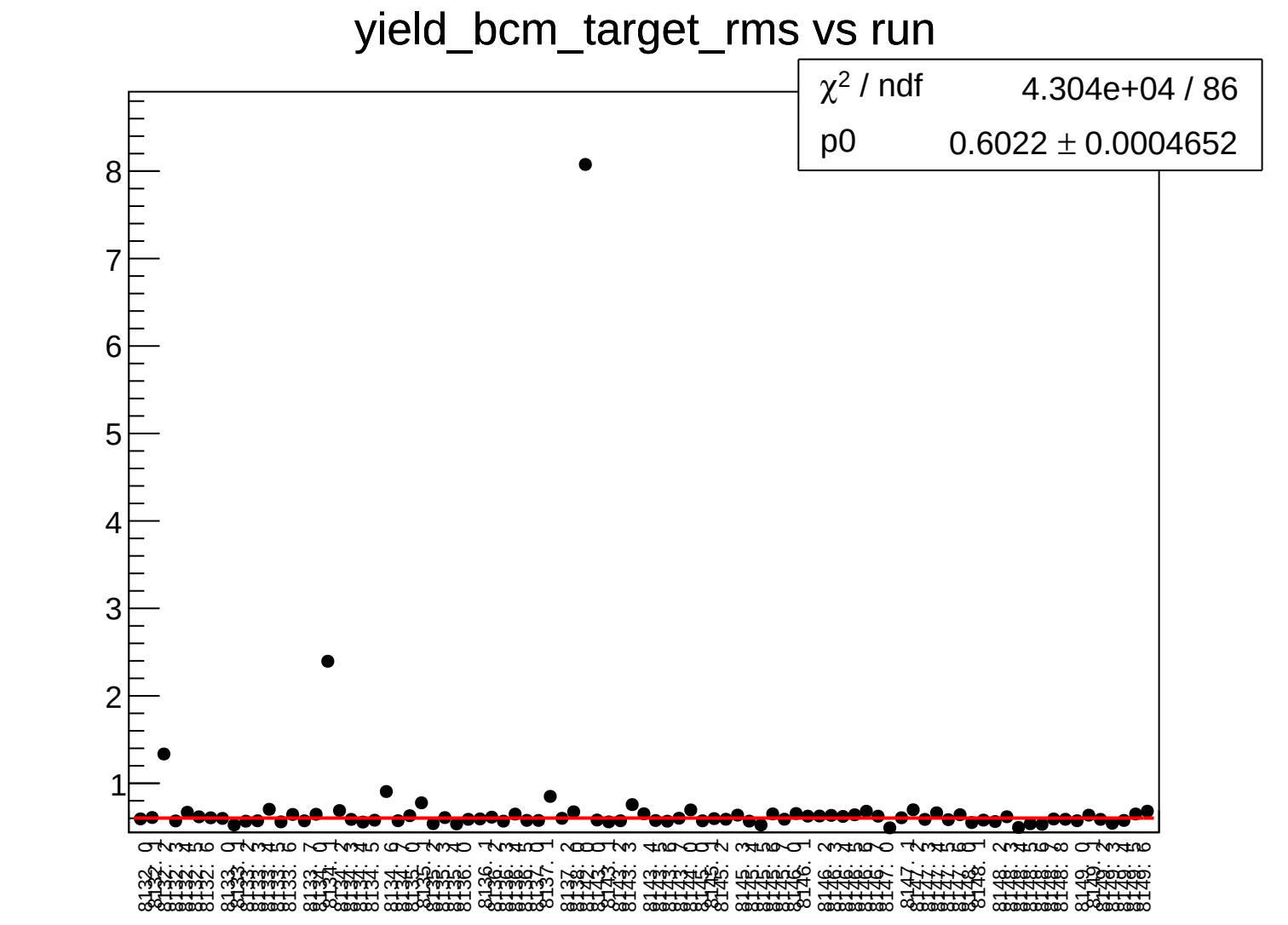

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 6256 / 86
p0 152.7 ± 0.1167
180
170
160
150
140

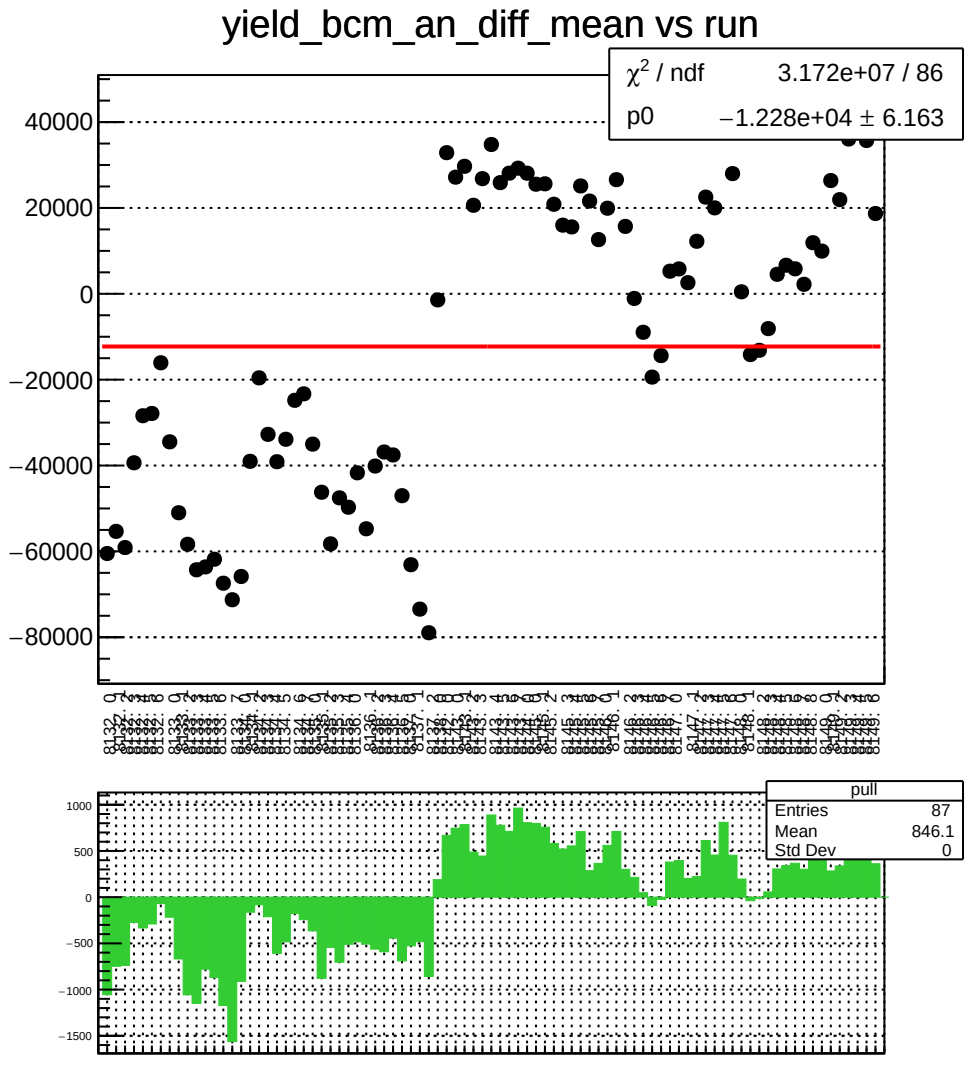

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 98.52 / 86
p0 −61.36 ± 32.35
1000
500
0
−500
−1000
pull
Entries 87
Mean −153
Std Dev 0
pull1D
Entries 87
Mean 0.01753
Std Dev 1.064

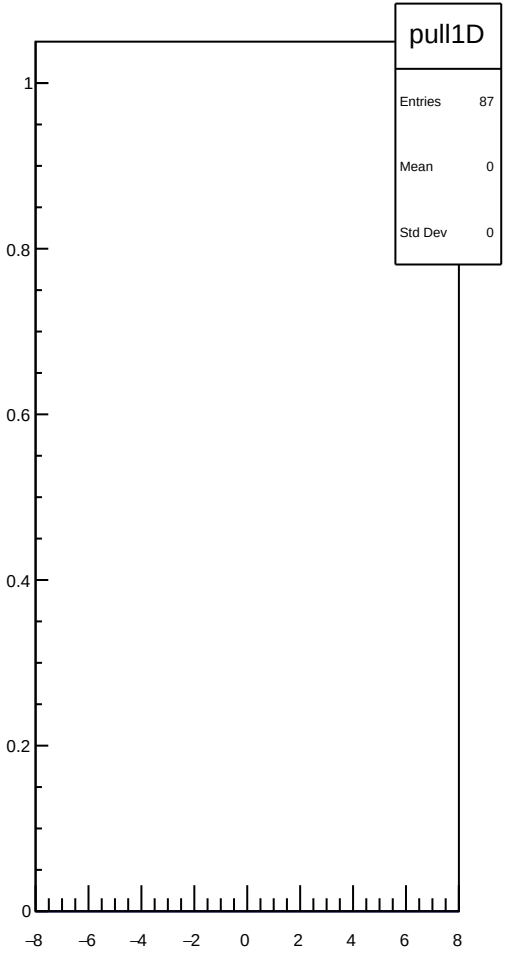

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2358 / 86
p0 29.97 ± 0.02288
33
32
31
30
29
28
27

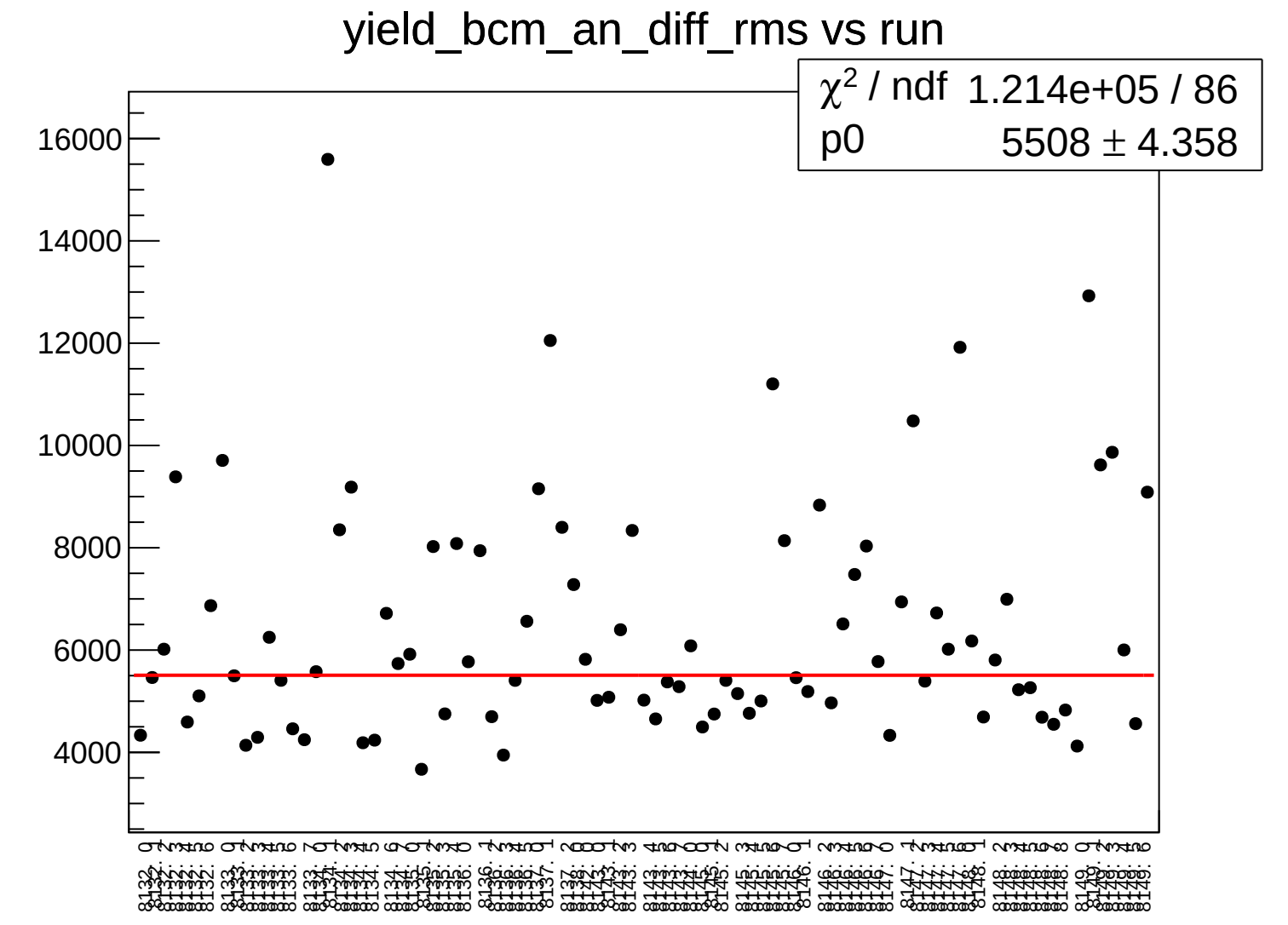

yield_bcm_target_mean vs run
χ² / ndf 9.628e+07 / 86
p0 140.8 ± 0.0006579
146
144
142
140
138
136
134
132
130
pull
Entries 87
Mean 7109
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000

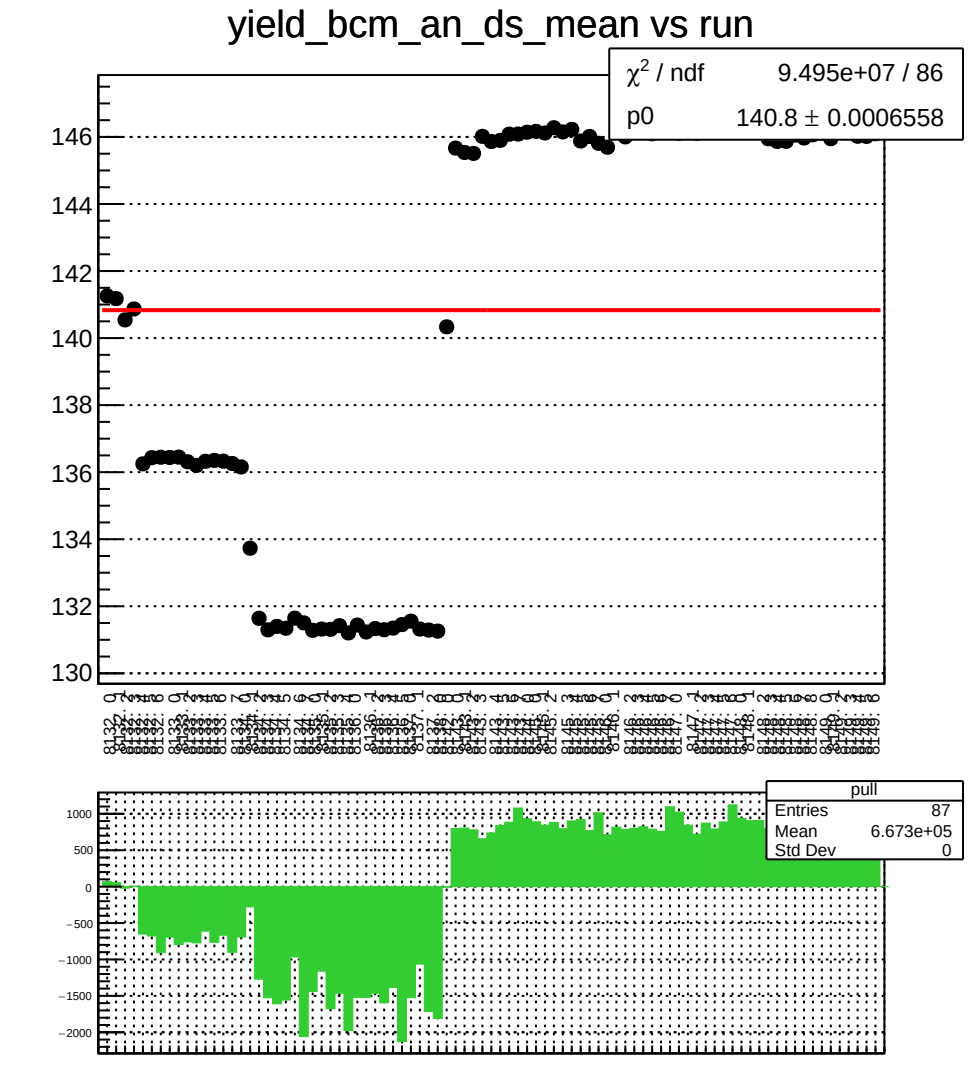

pull1D
Entries 87
Mean −0.8663
Std Dev 3.134
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

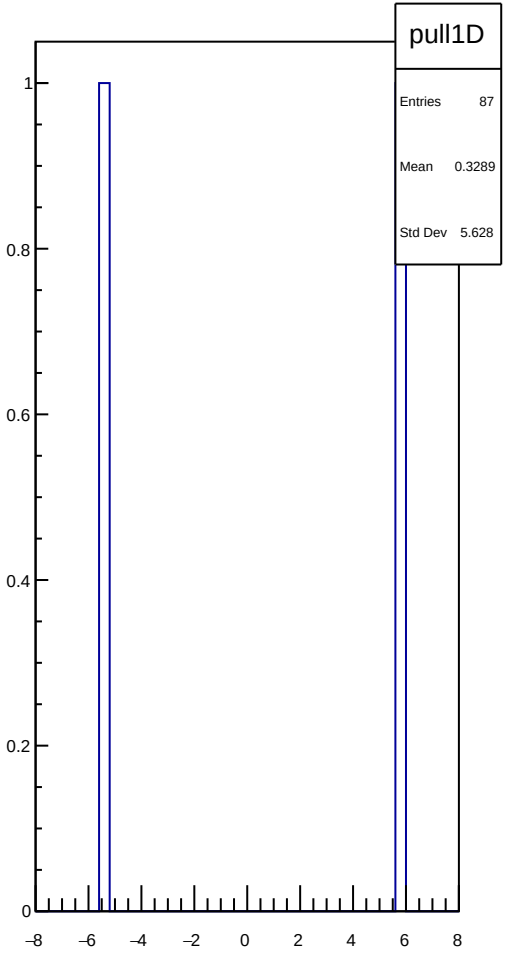

yield_bcm_target_rms vs run
χ² / ndf 4.304e+04 / 86
p0 0.6022 ± 0.0004652
8
7
6
5
4
3
2
1

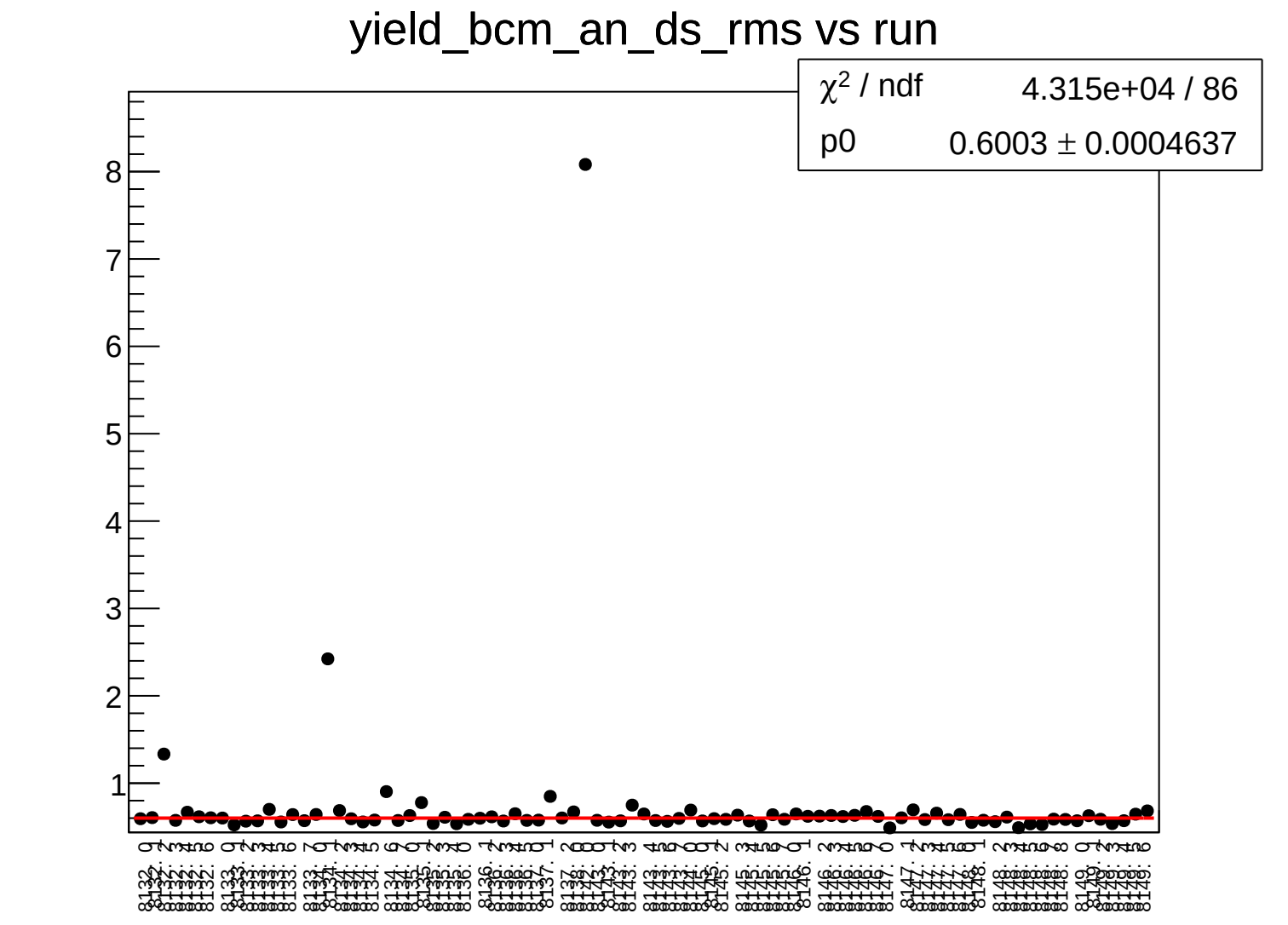

yield_bcm_an_diff_mean vs run
χ² / ndf 3.172e+07 / 86
p0 −1.228e+04 ± 6.163
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean 846.1
Std Dev 0
1000
500
0
−500
−1000
−1500

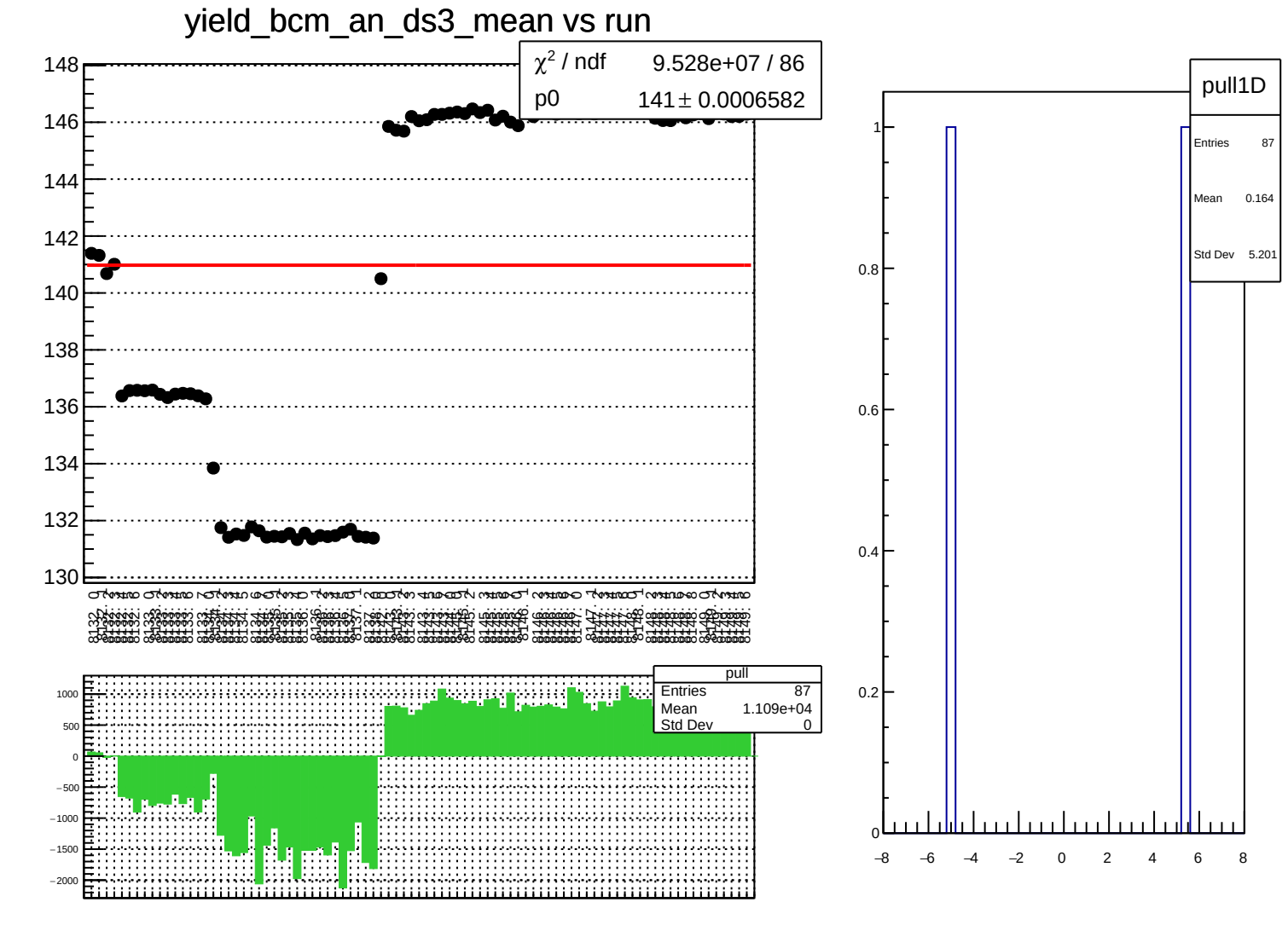

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

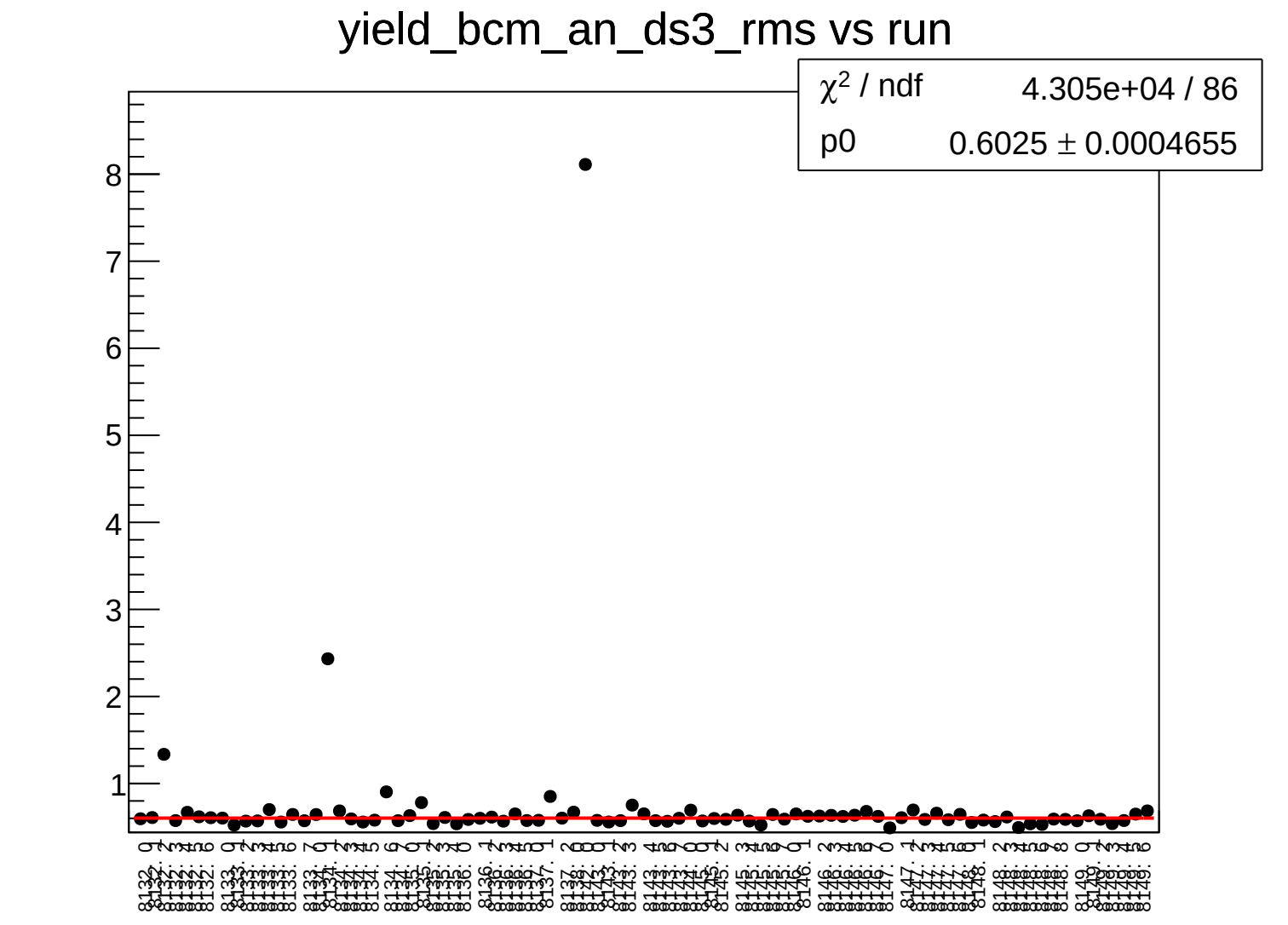

yield_bcm_an_diff_rms vs run
χ² / ndf 1.214e+05 / 86
p0 5508 ± 4.358
16000
14000
12000
10000
8000
6000
4000

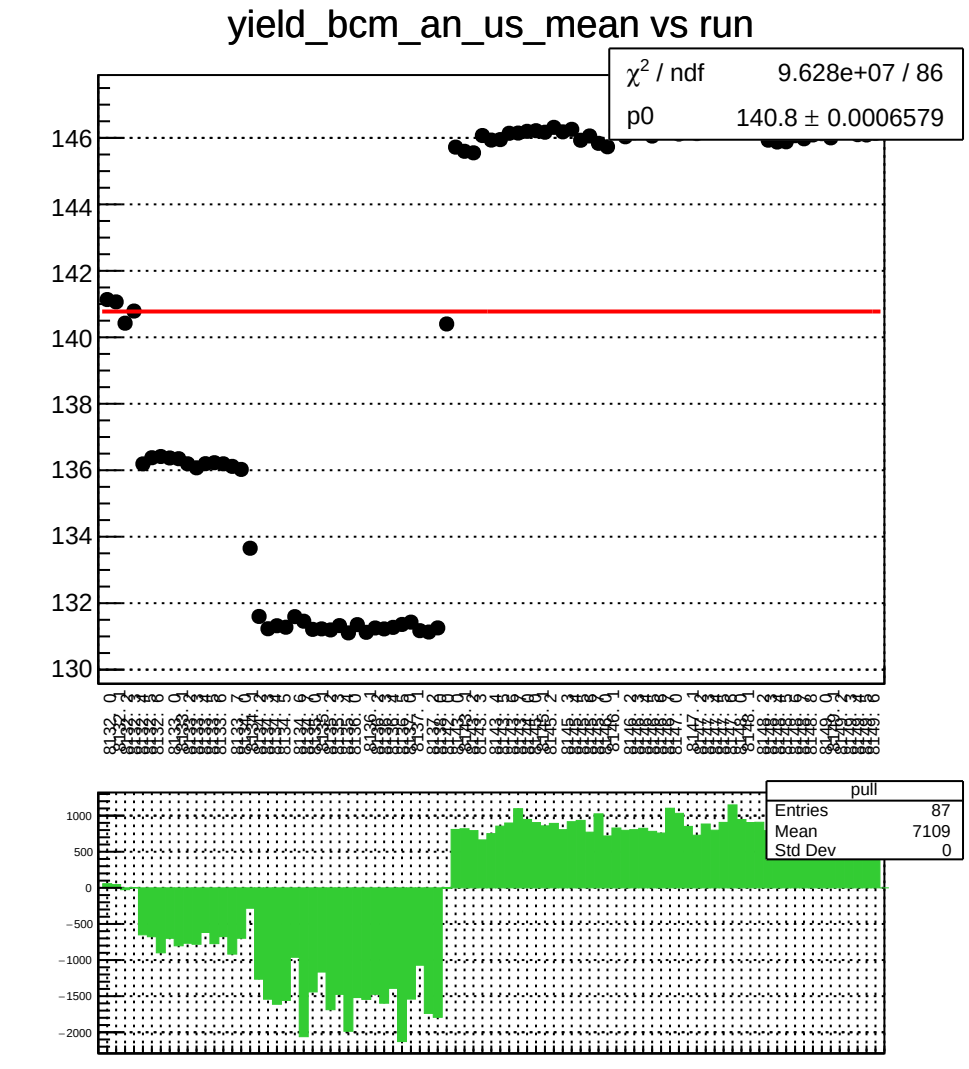

yield_bcm_an_ds_mean vs run
χ² / ndf 9.495e+07 / 86
p0 140.8 ± 0.0006558
146
144
142
140
138
136
134
132
130
pull
Entries 87
Mean 6.673e+05
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000

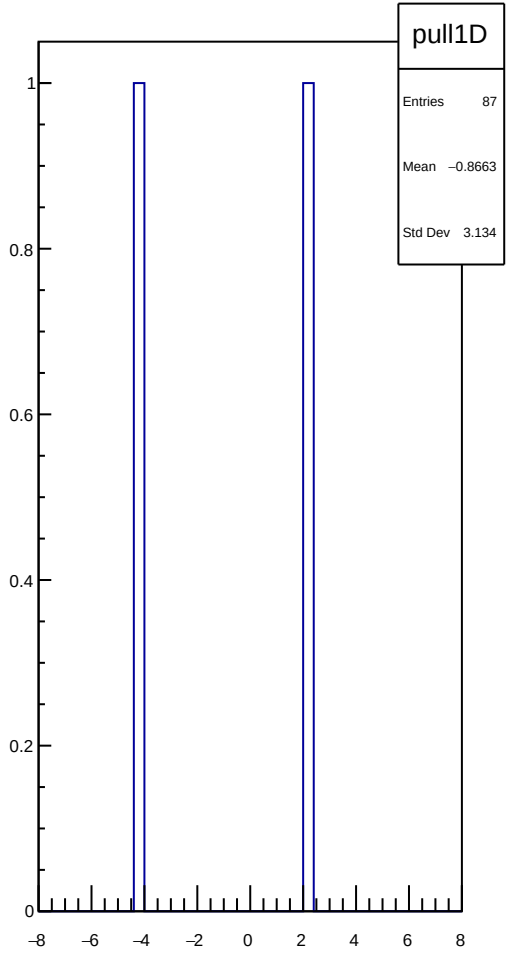

pull1D
Entries 87
Mean 0.3289
Std Dev 5.628
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

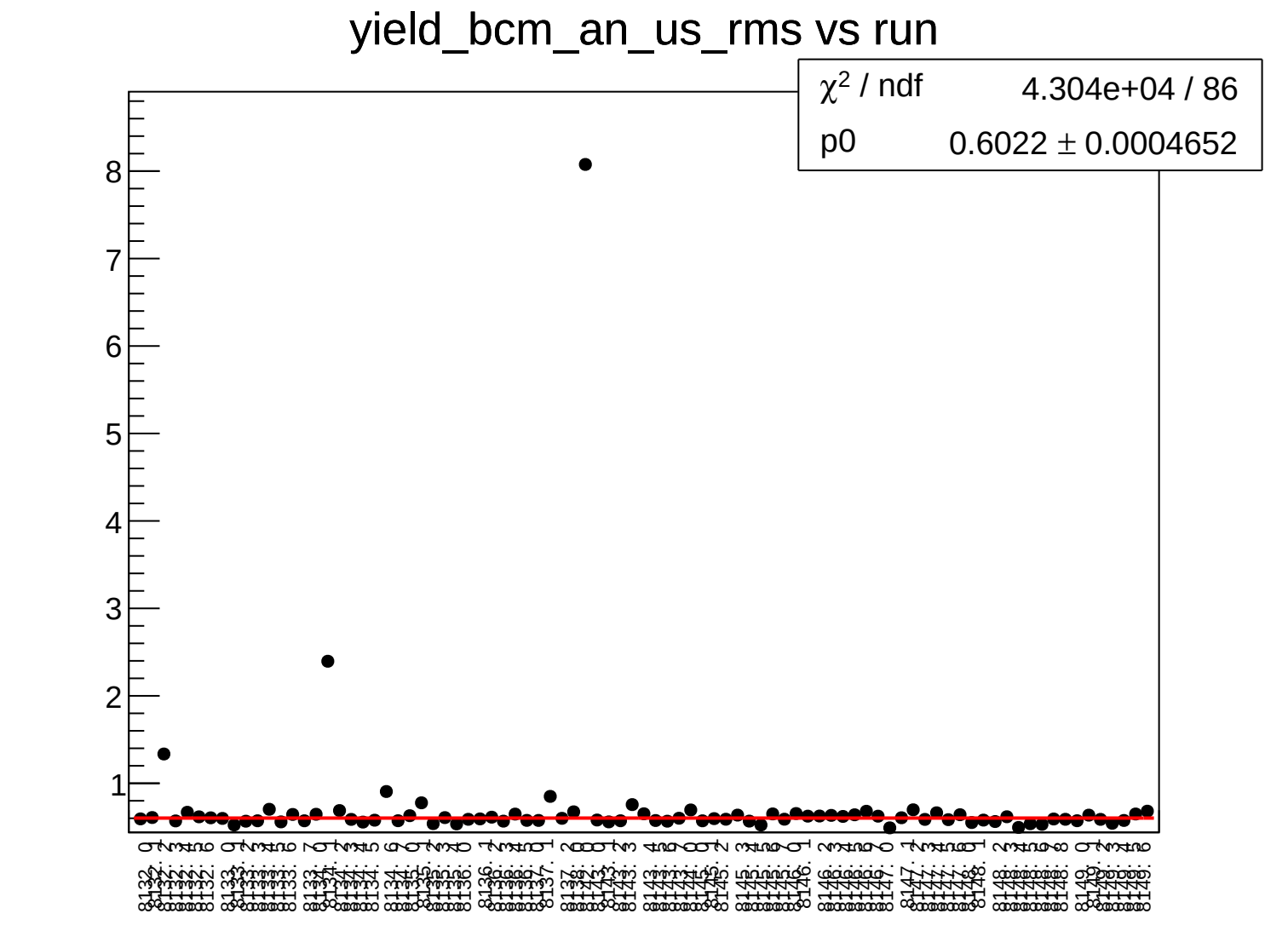

yield_bcm_an_ds_rms vs run
χ² / ndf 4.315e+04 / 86
p0 0.6003 ± 0.0004637
8
7
6
5
4
3
2
1

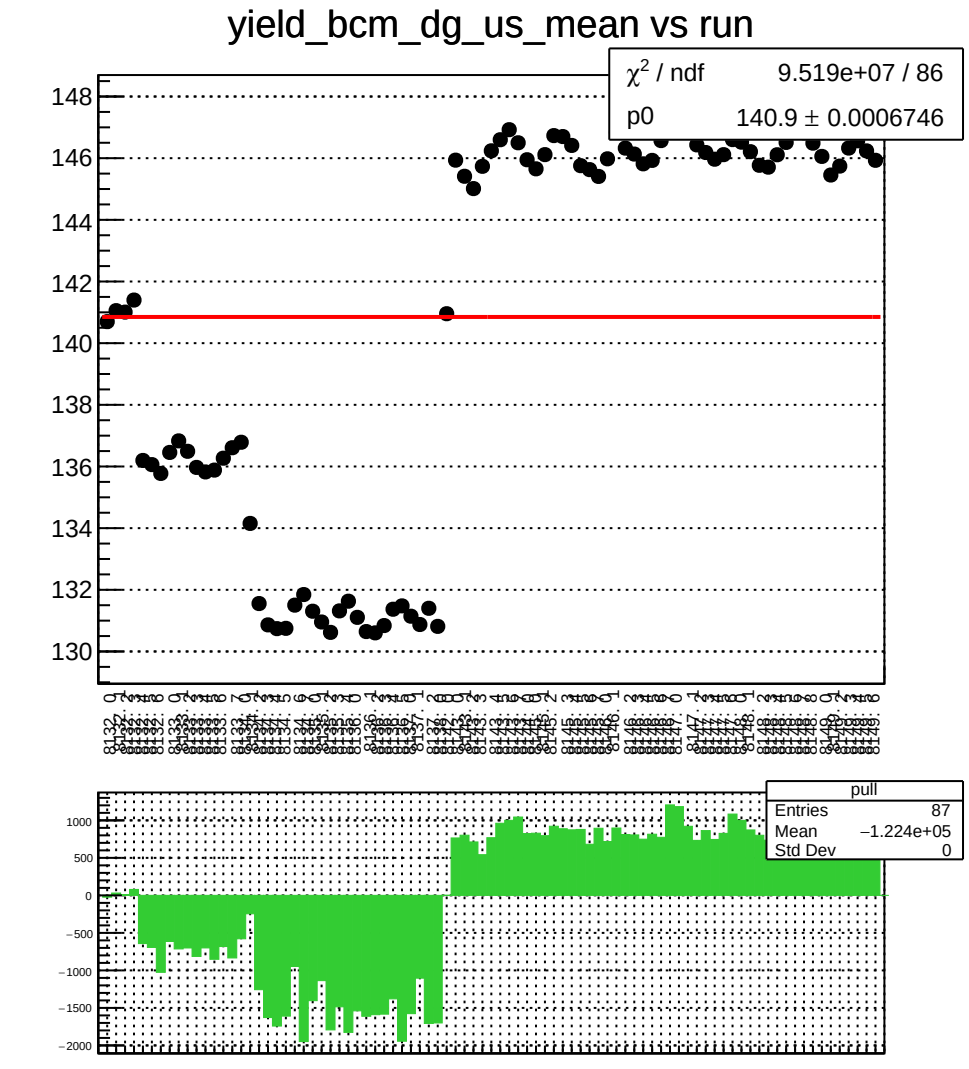

yield_bcm_an_ds3_mean vs run
χ² / ndf 9.528e+07 / 86
p0 141 ± 0.0006582
148
146
144
142
140
138
136
134
132
130
pull
Entries 87
Mean 1.109e+04
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000
pull1D
Entries 87
Mean 0.164
Std Dev 5.201
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

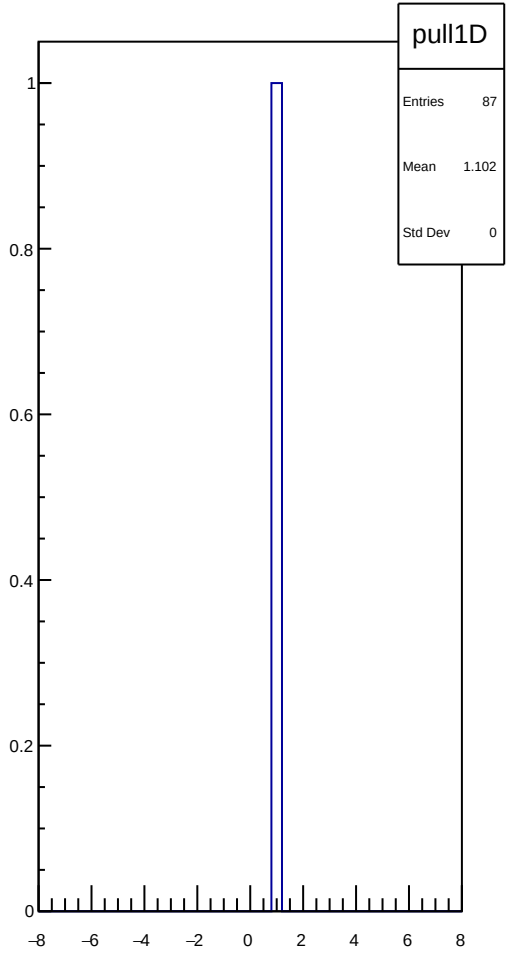

yield_bcm_an_ds3_rms vs run
χ² / ndf 4.305e+04 / 86
p0 0.6025 ± 0.0004655
8
7
6
5
4
3
2
1

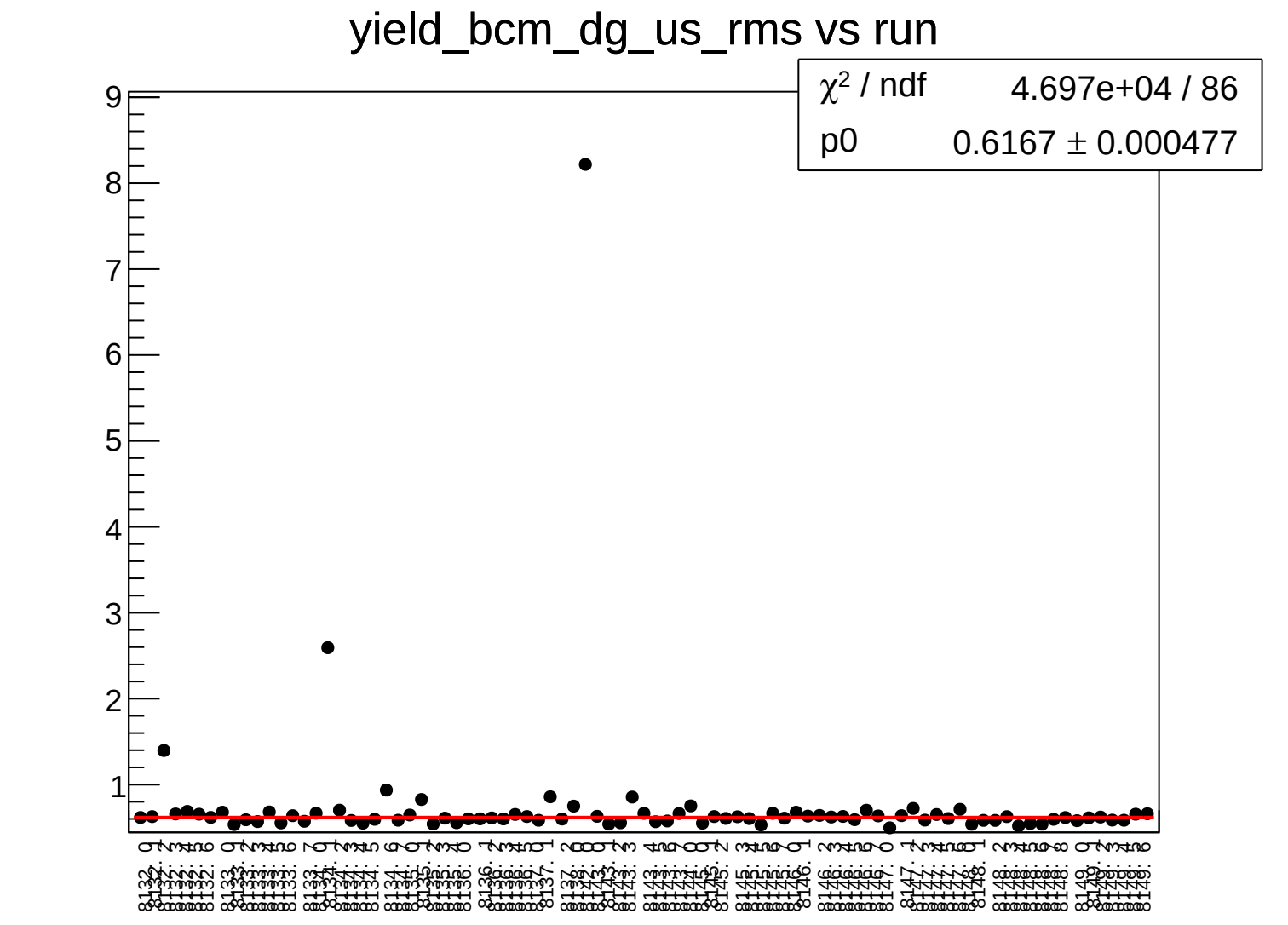

yield_bcm_an_us_mean vs run
χ² / ndf 9.628e+07 / 86
p0 140.8 ± 0.0006579
146
144
142
140
138
136
134
132
130
pull
Entries 87
Mean 7109
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000

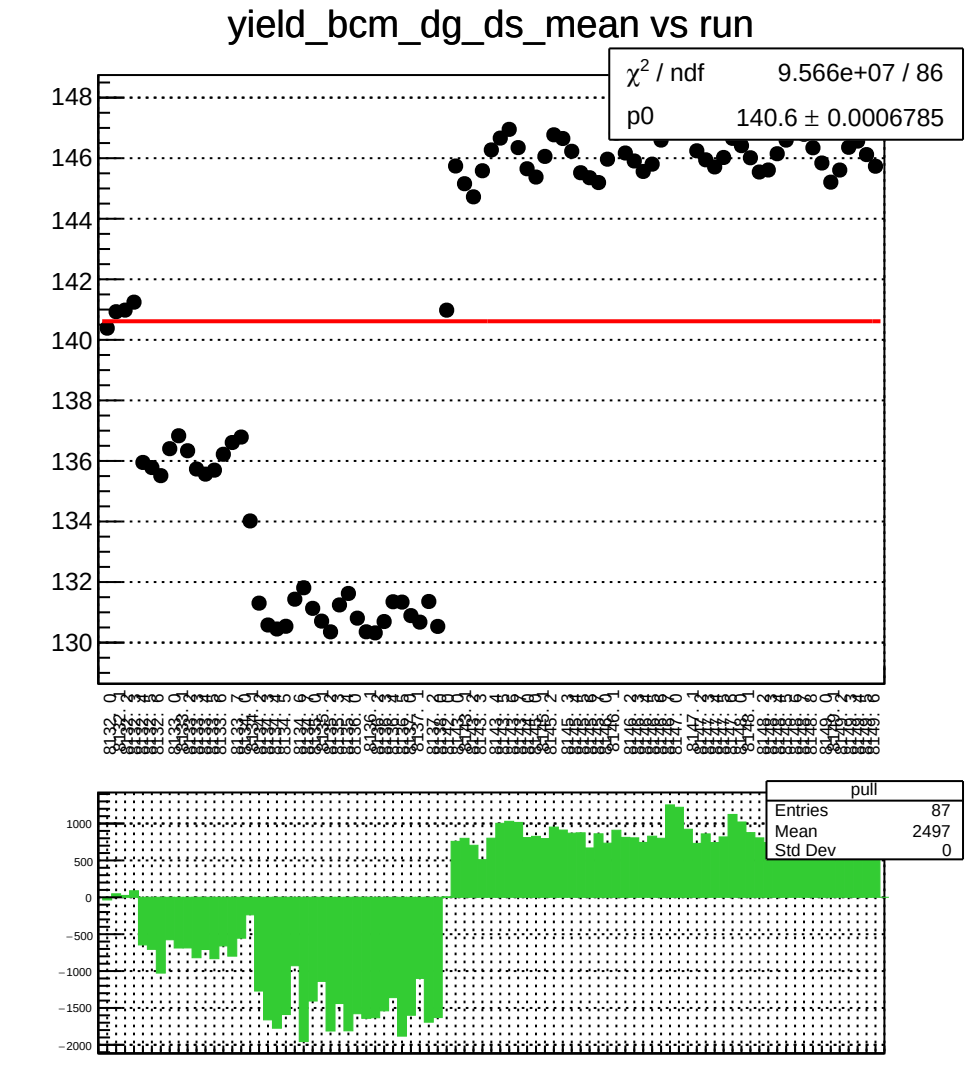

pull1D
Entries 87
Mean −0.8663
Std Dev 3.134
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

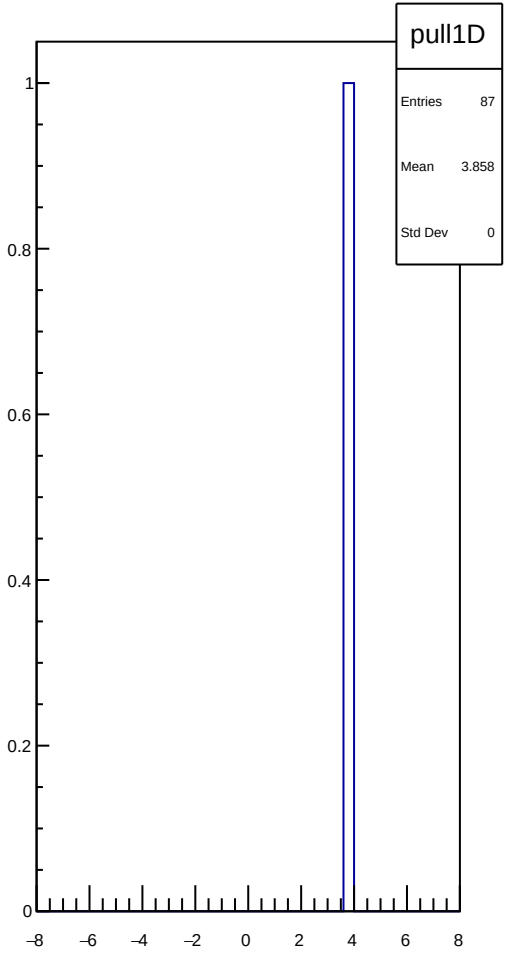

yield_bcm_an_us_rms vs run
χ² / ndf 4.304e+04 / 86
p0 0.6022 ± 0.0004652
8
7
6
5
4
3
2
1

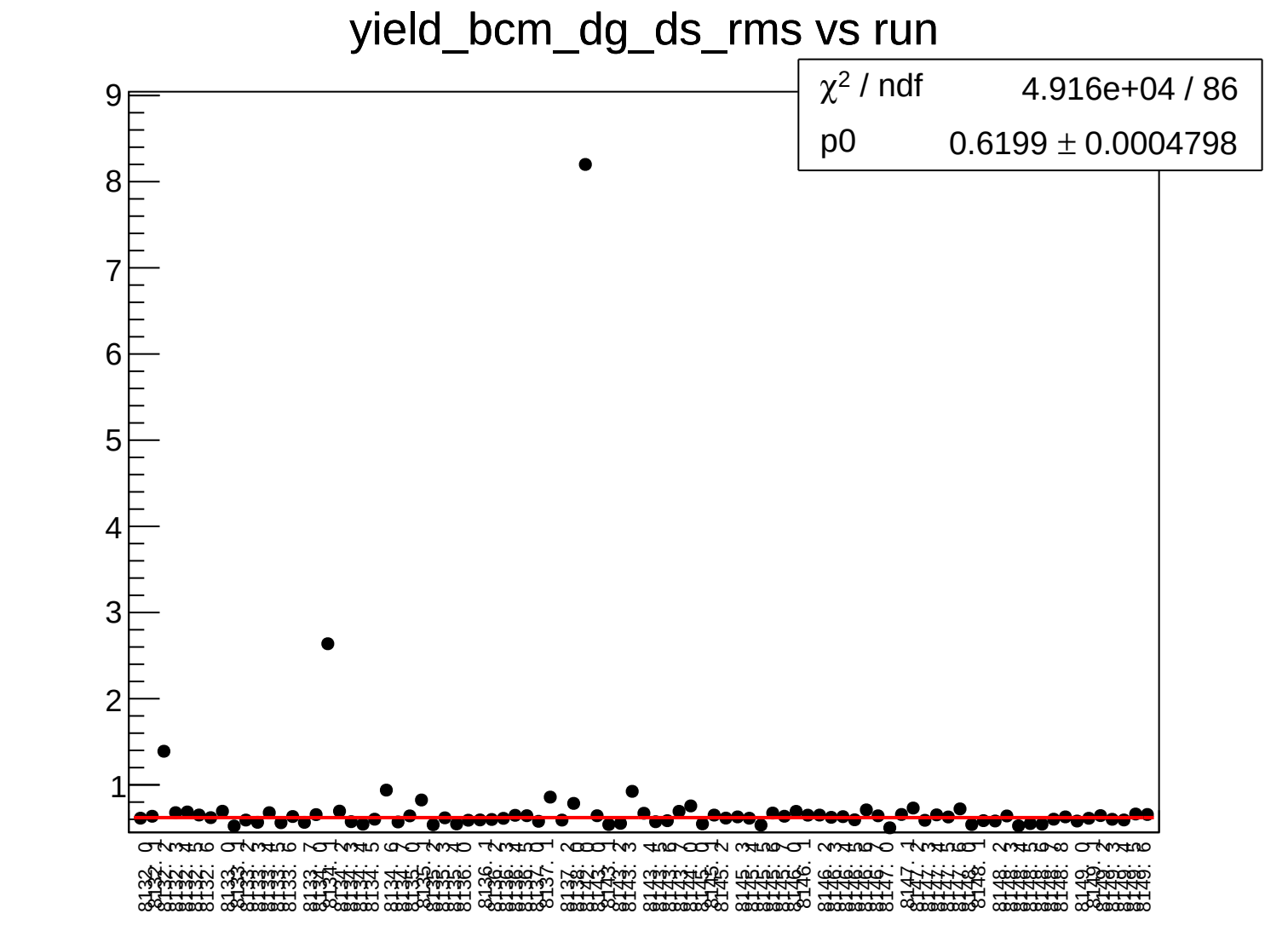

yield_bcm_dg_us_mean vs run
χ² / ndf 9.519e+07 / 86
p0 140.9 ± 0.0006746
148
146
144
142
140
138
136
134
132
130
pull
Entries 87
Mean −1.224e+05
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000

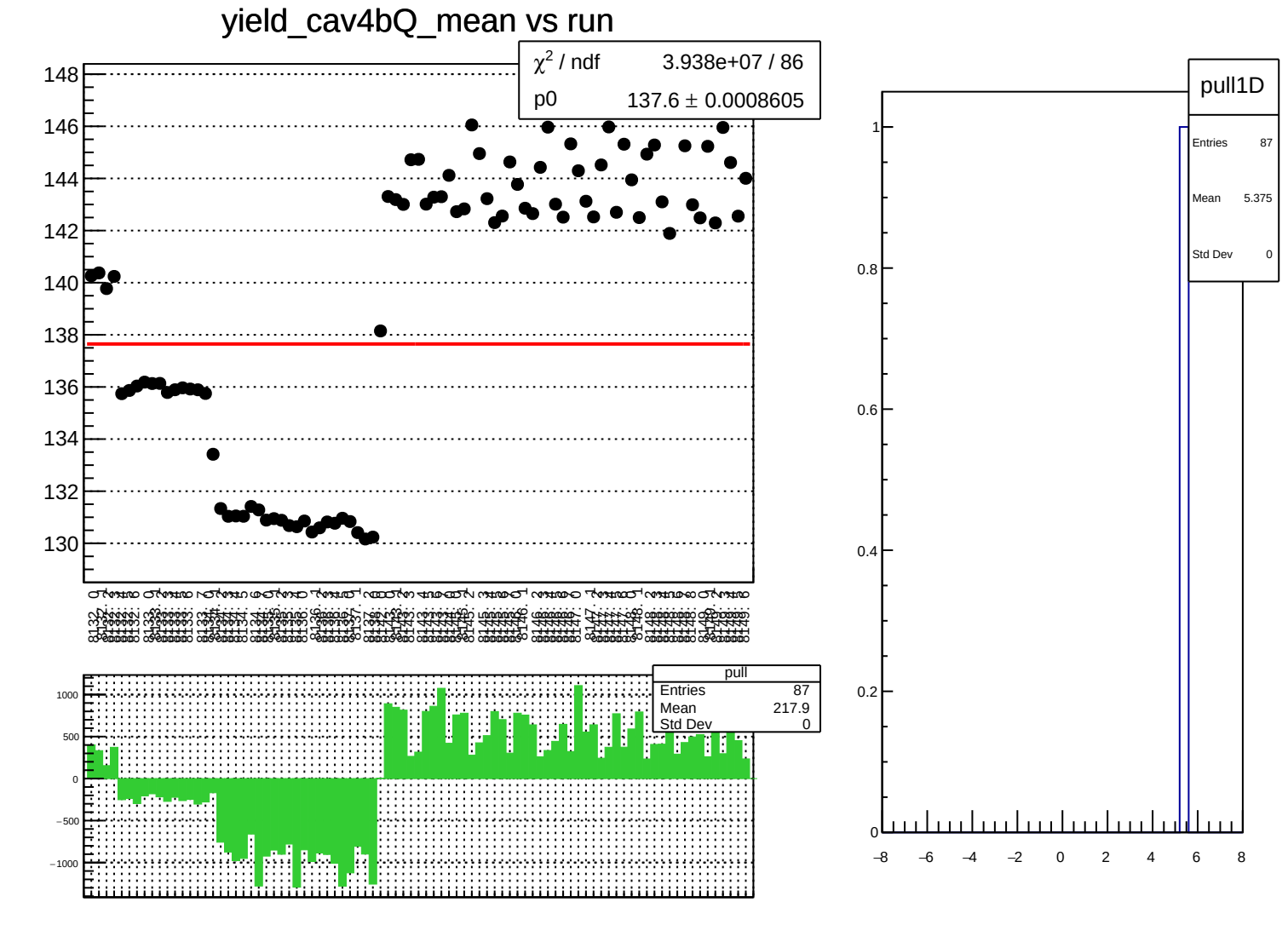

pull1D
Entries 87
Mean 1.102
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

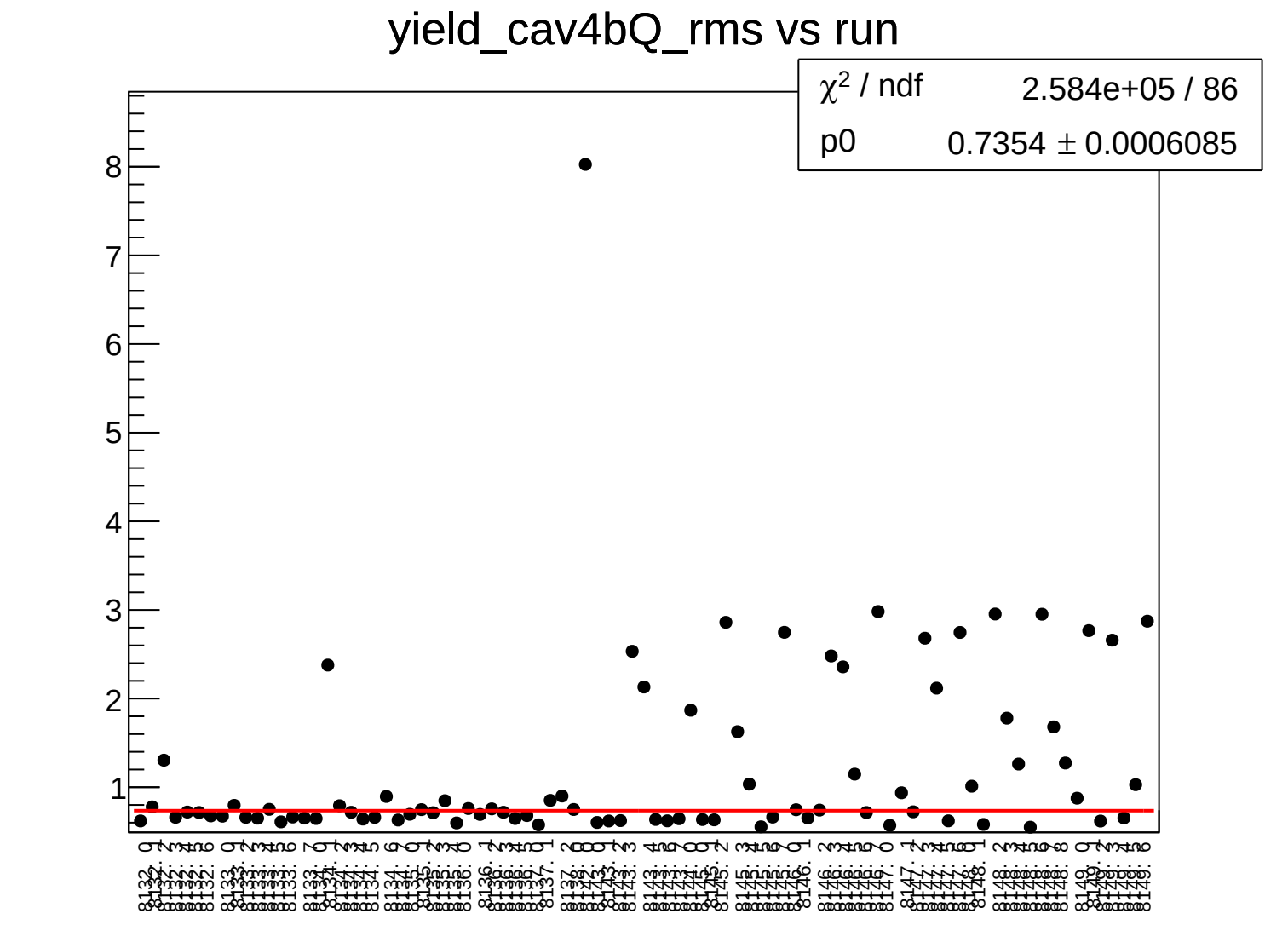

yield_bcm_dg_us_rms vs run
χ² / ndf 4.697e+04 / 86
p0 0.6167 ± 0.000477
9
8
7
6
5
4
3
2
1

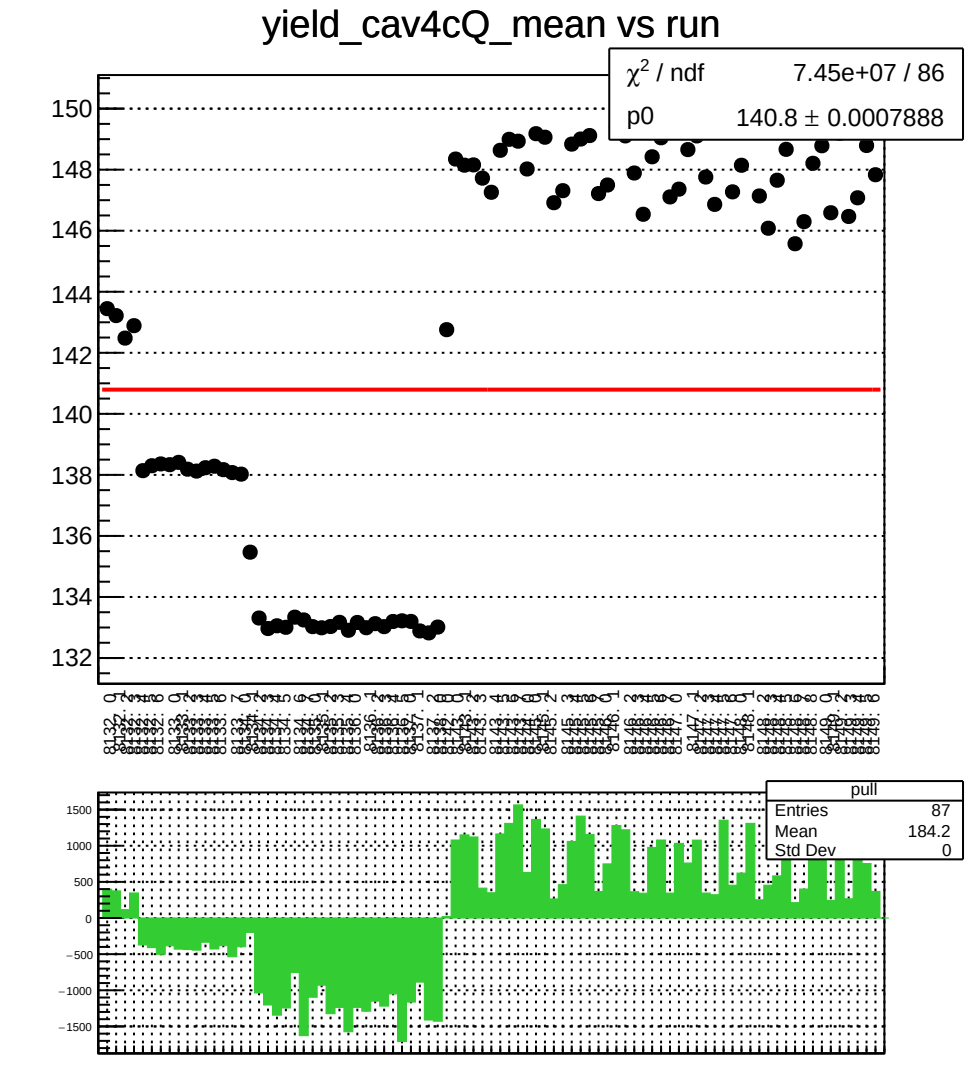

yield_bcm_dg_ds_mean vs run
χ² / ndf 9.566e+07 / 86
p0 140.6 ± 0.0006785
148
146
144
142
140
138
136
134
132
130
pull
Entries 87
Mean 2497
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000

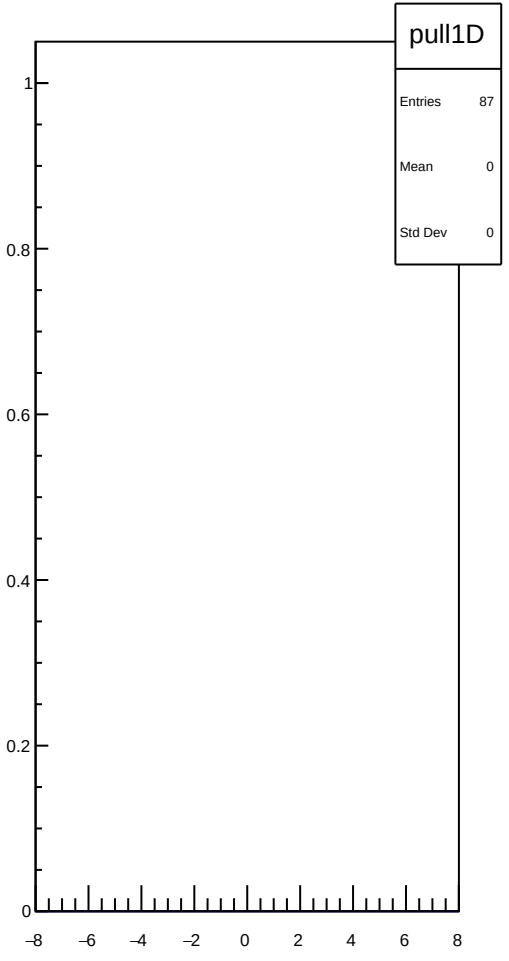

pull1D
Entries 87
Mean 3.858
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

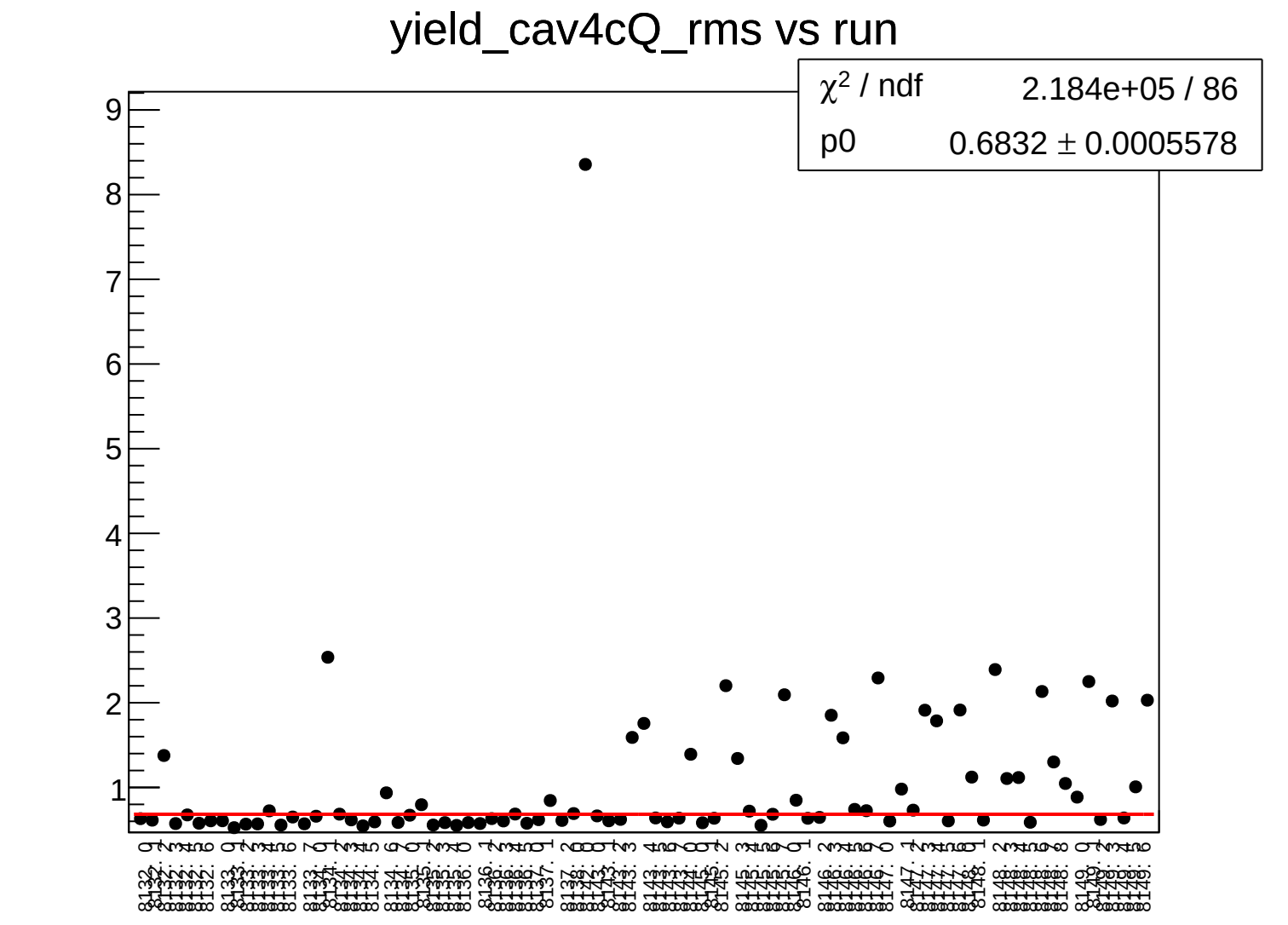

yield_bcm_dg_ds_rms vs run
χ² / ndf 4.916e+04 / 86
p0 0.6199 ± 0.0004798
9
8
7
6
5
4
3
2
1

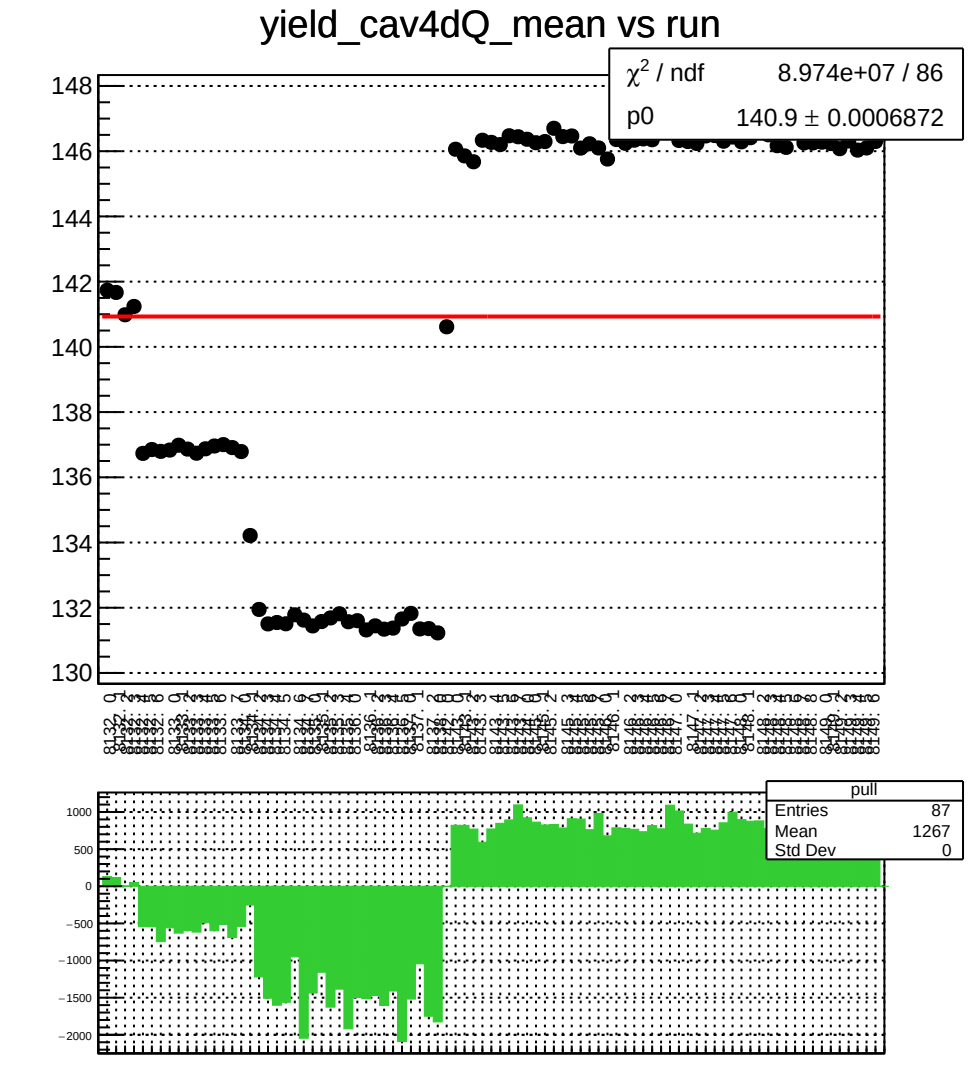

yield_cav4bQ_mean vs run
χ² / ndf 3.938e+07 / 86
p0 137.6 ± 0.0008605
148
146
144
142
140
138
136
134
132
130
pull
Entries 87
Mean 217.9
Std Dev 0
1000
500
0
−500
−1000
pull1D
Entries 87
Mean 5.375
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

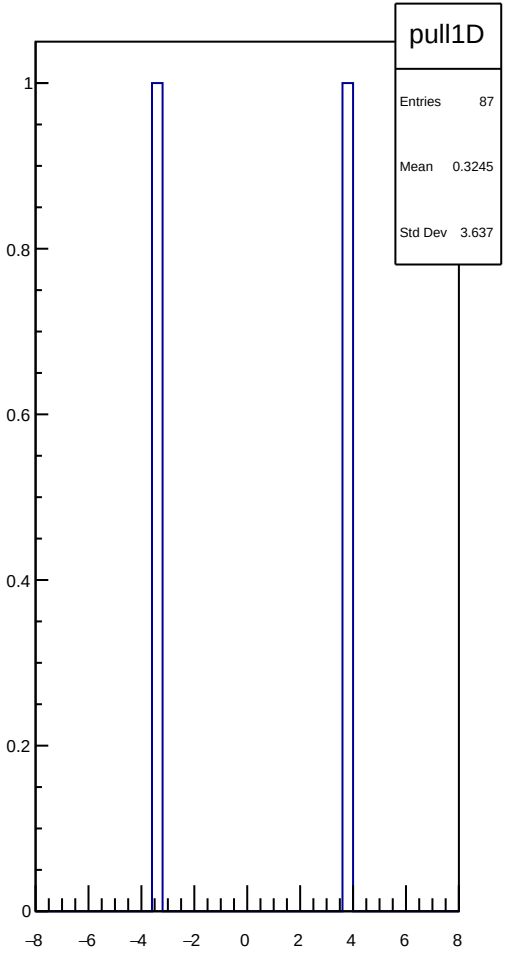

yield_cav4bQ_rms vs run
χ² / ndf 2.584e+05 / 86
p0 0.7354 ± 0.0006085
8
7
6
5
4
3
2
1

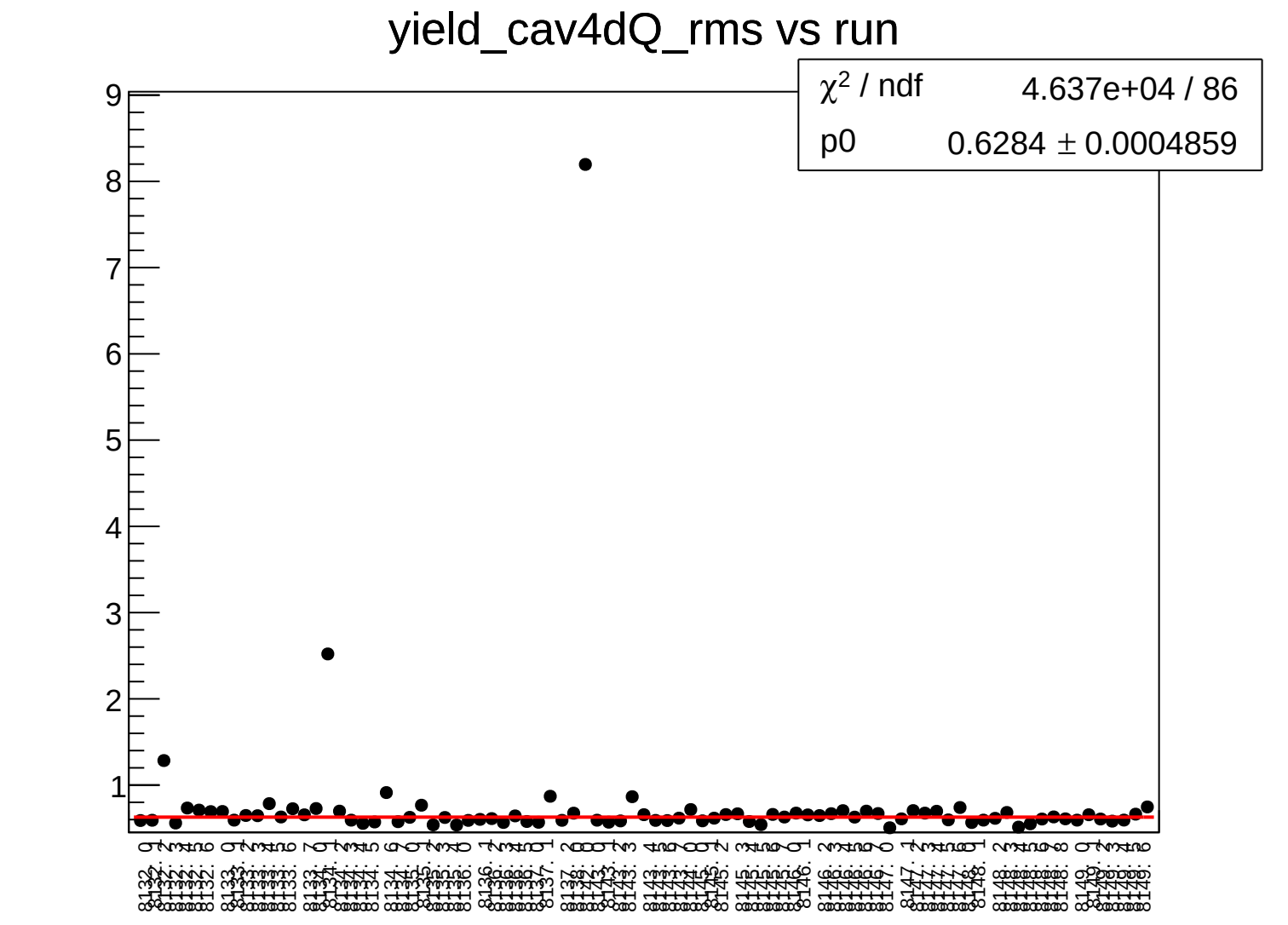

yield_cav4cQ_mean vs run
χ² / ndf 7.45e+07 / 86
p0 140.8 ± 0.0007888
150
148
146
144
142
140
138
136
134
132
pull
Entries 87
Mean 184.2
Std Dev 0
1500
1000
500
0
−500
−1000
−1500

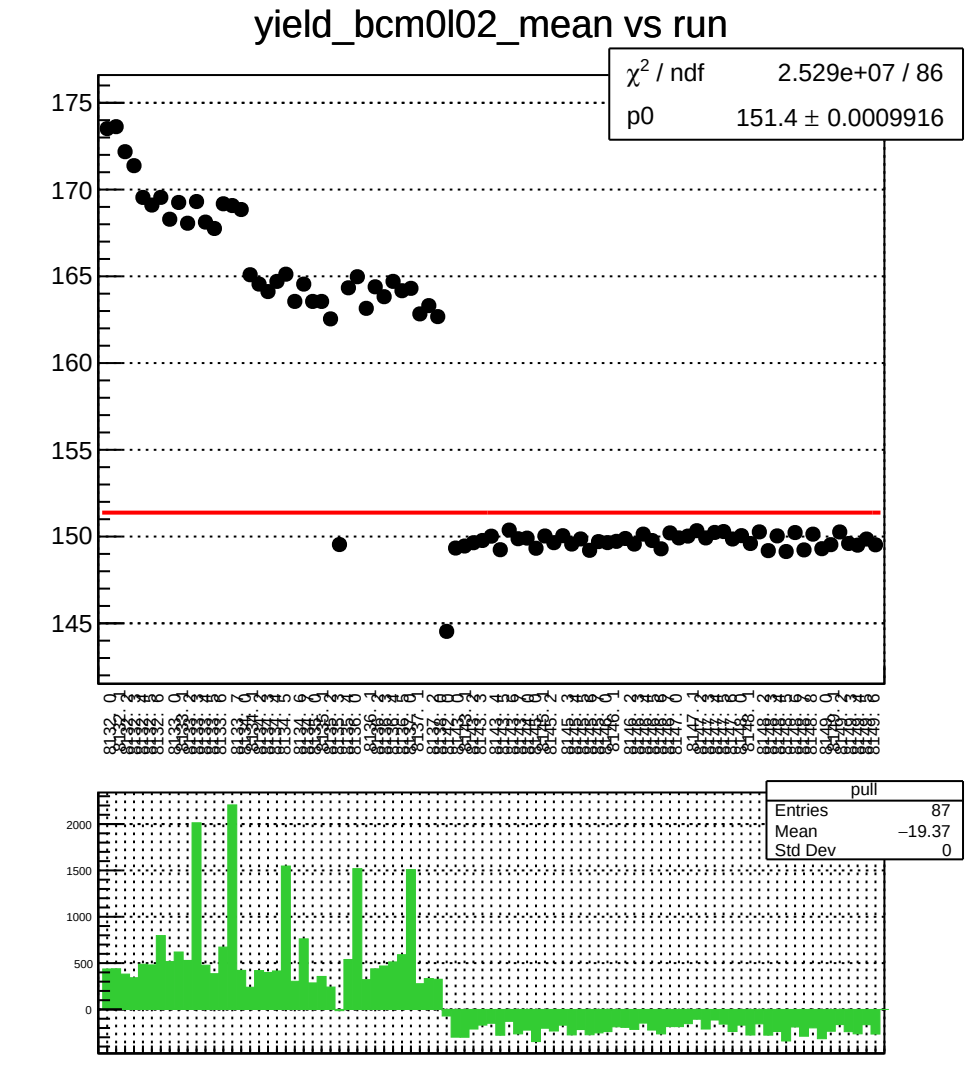

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

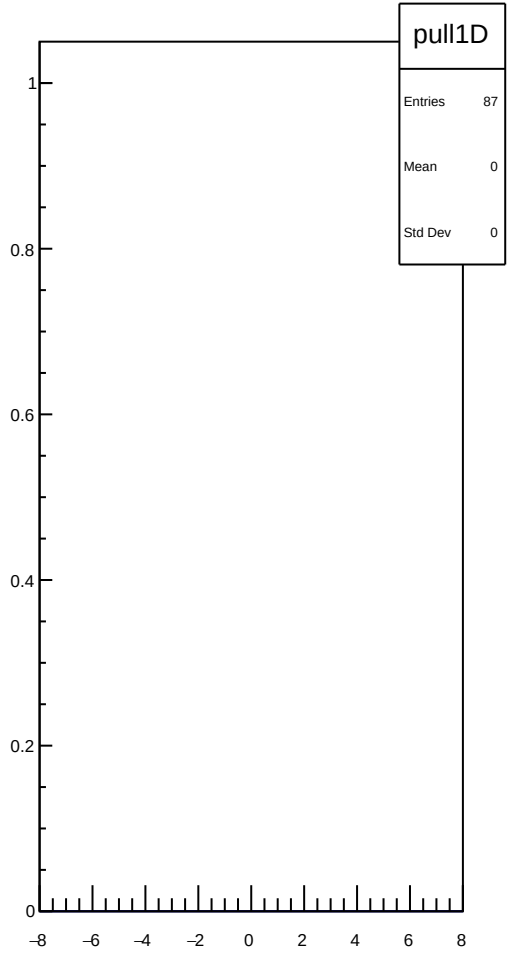

yield_cav4cQ_rms vs run
χ² / ndf 2.184e+05 / 86
p0 0.6832 ± 0.0005578
9
8
7
6
5
4
3
2
1


yield_cav4dQ_mean vs run
χ² / ndf 8.974e+07 / 86
p0 140.9 ± 0.0006872
148
146
144
142
140
138
136
134
132
130
pull
Entries 87
Mean 1267
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000

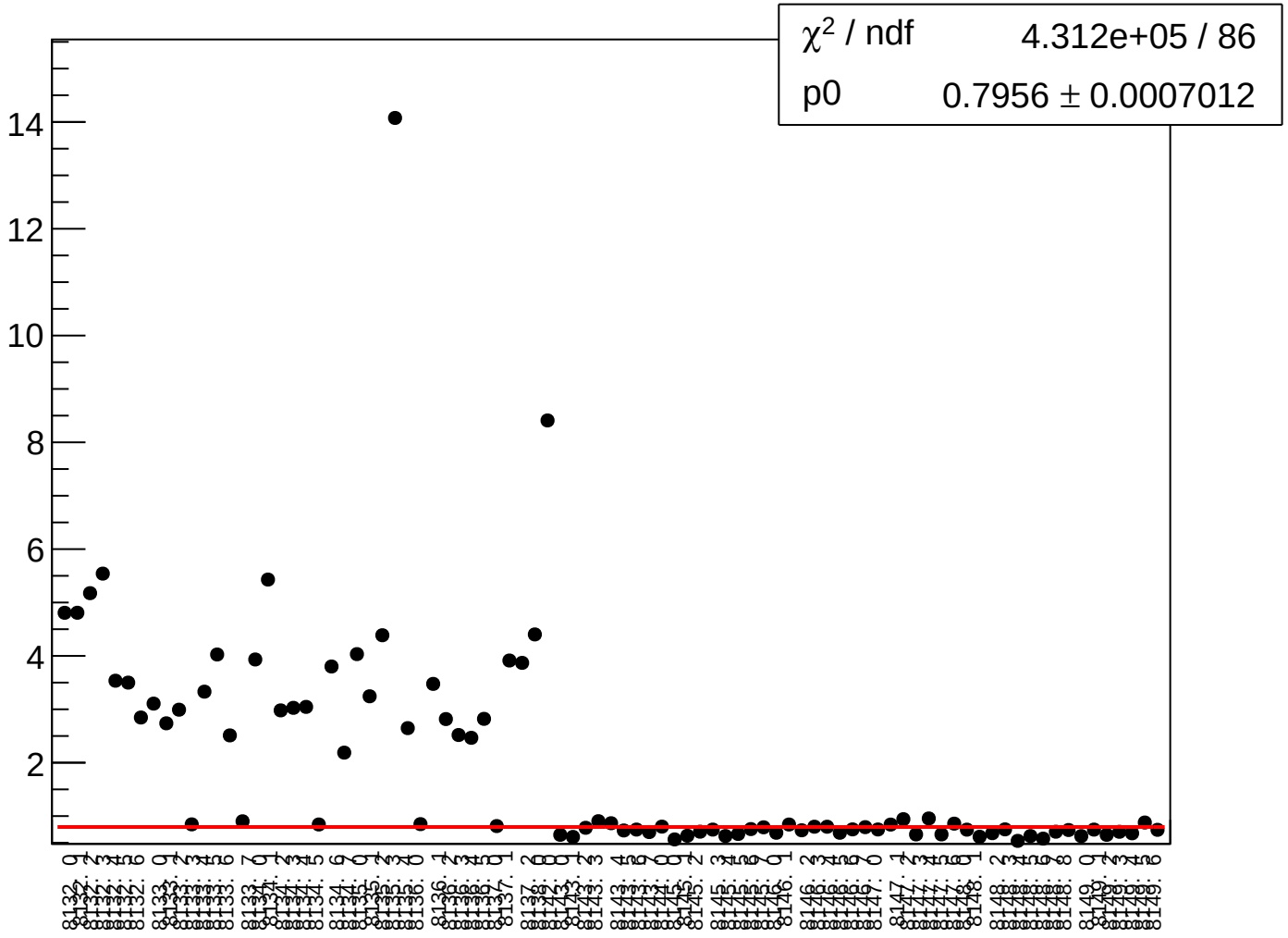

pull1D
Entries 87
Mean 0.3245
Std Dev 3.637
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

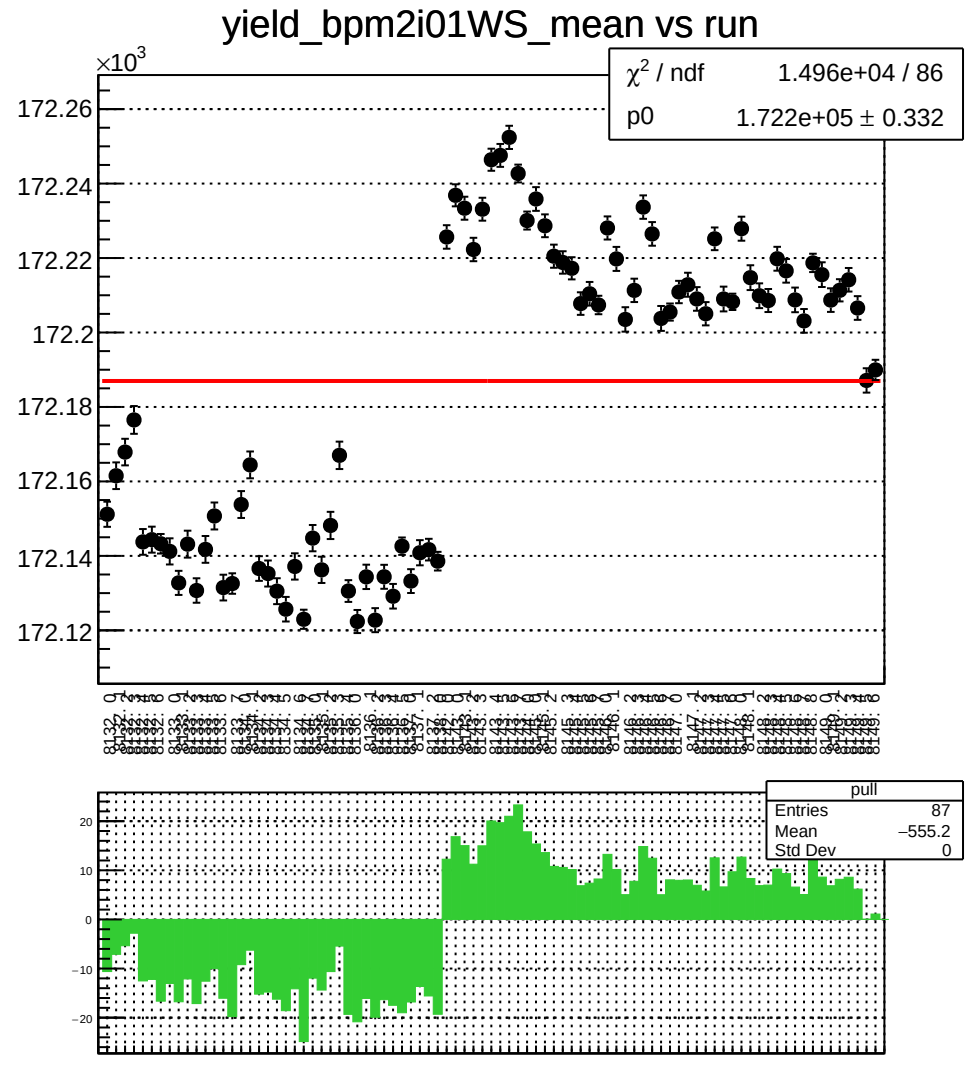

yield_cav4dQ_rms vs run
χ² / ndf 4.637e+04 / 86
p0 0.6284 ± 0.0004859
9
8
7
6
5
4
3
2
1

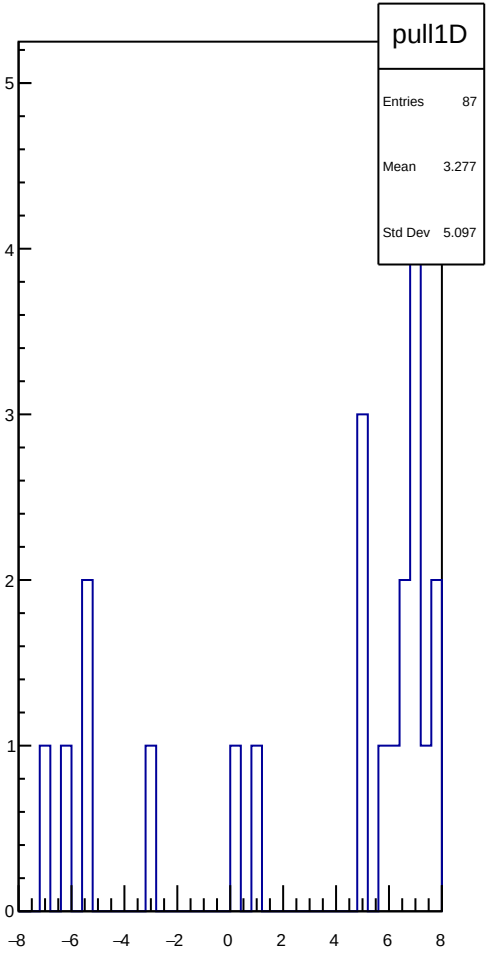

yield_bcm0l02_mean vs run
χ² / ndf 2.529e+07 / 86
p0 151.4 ± 0.0009916
175
170
165
160
155
150
145
pull
Entries 87
Mean −19.37
Std Dev 0
2000
1500
1000
500
0

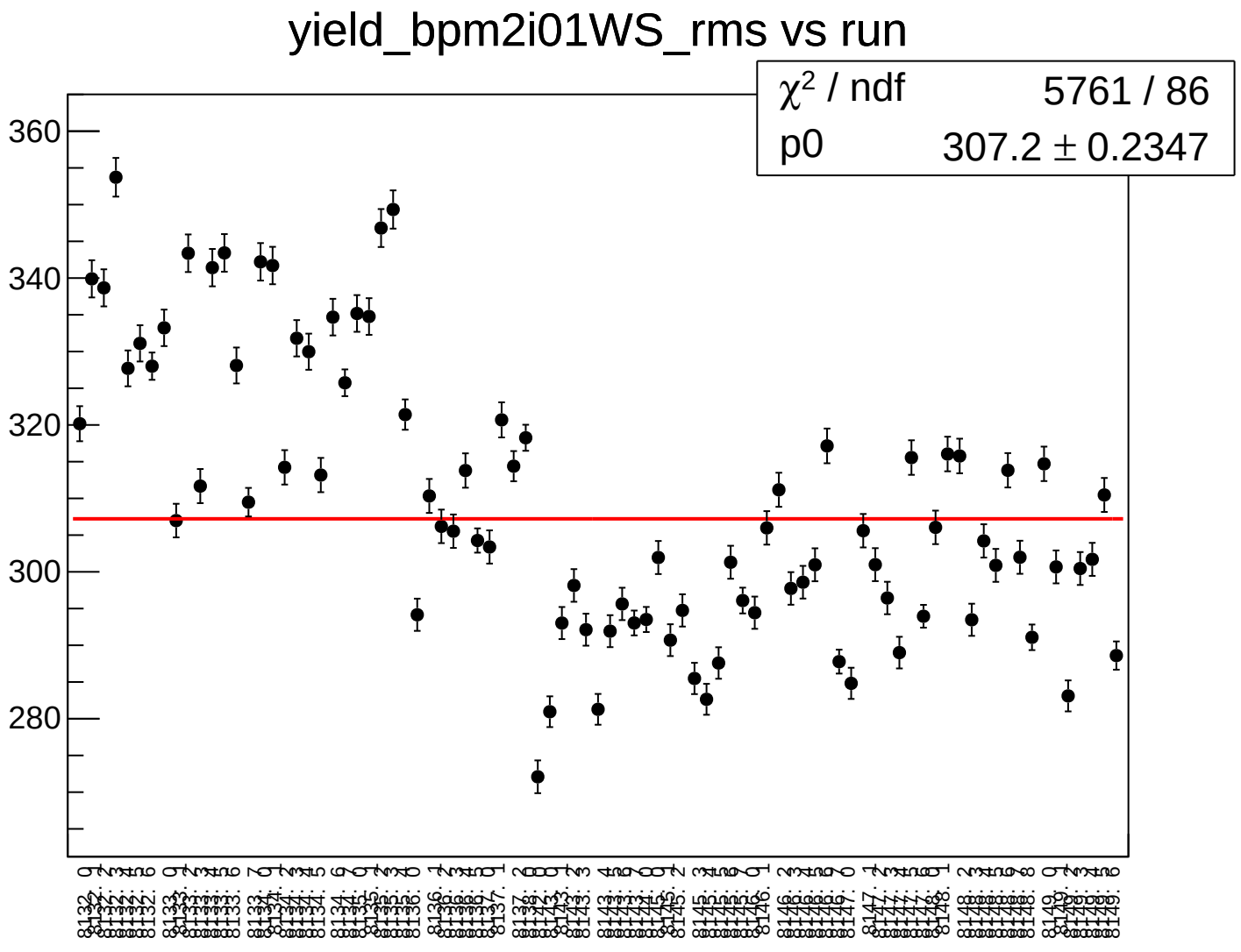

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

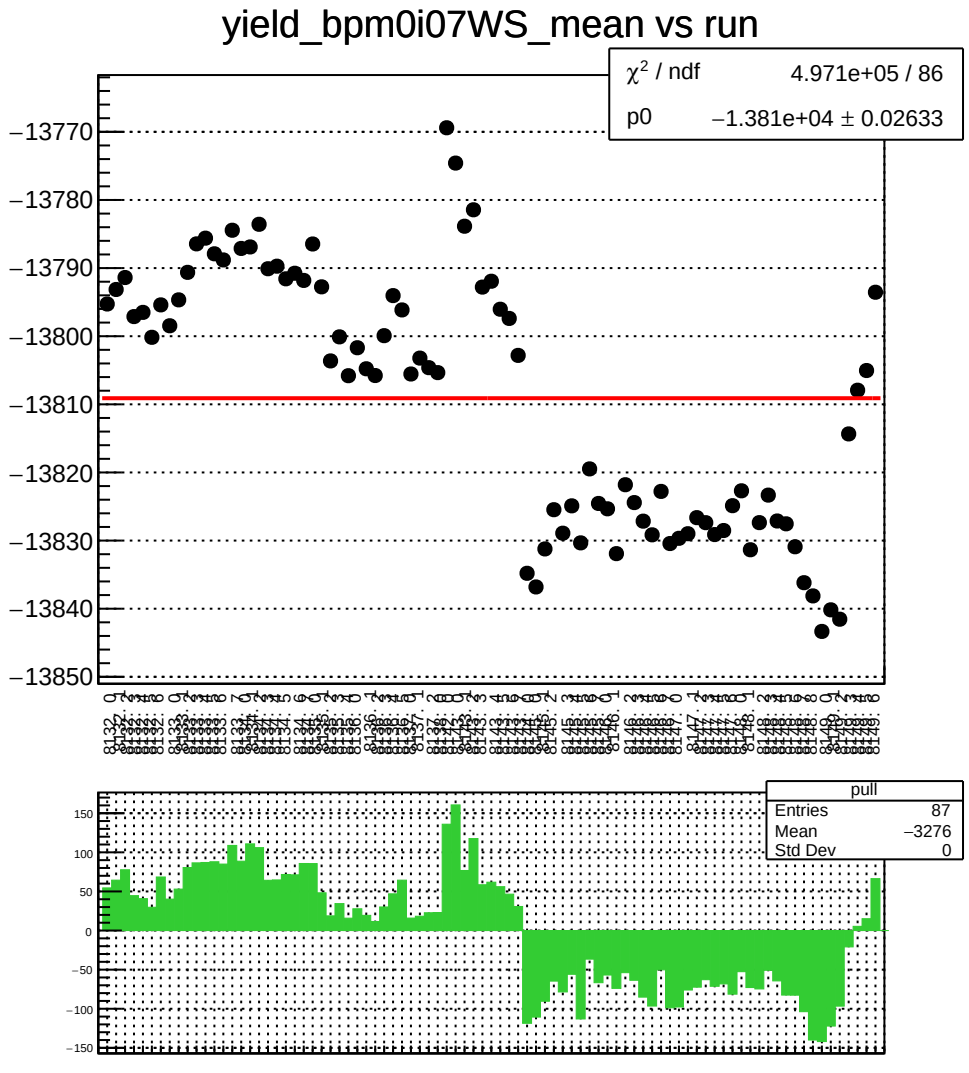
yield_bcm0l02_rms vs run

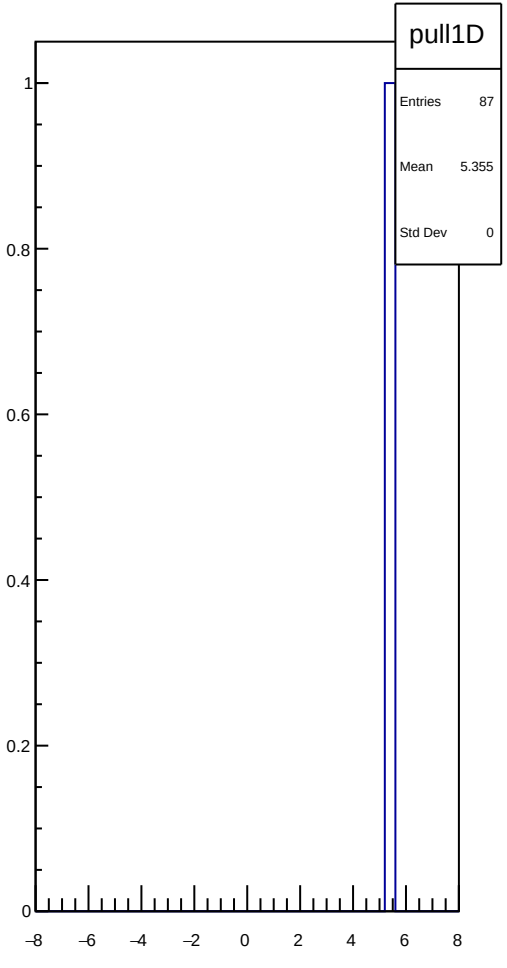


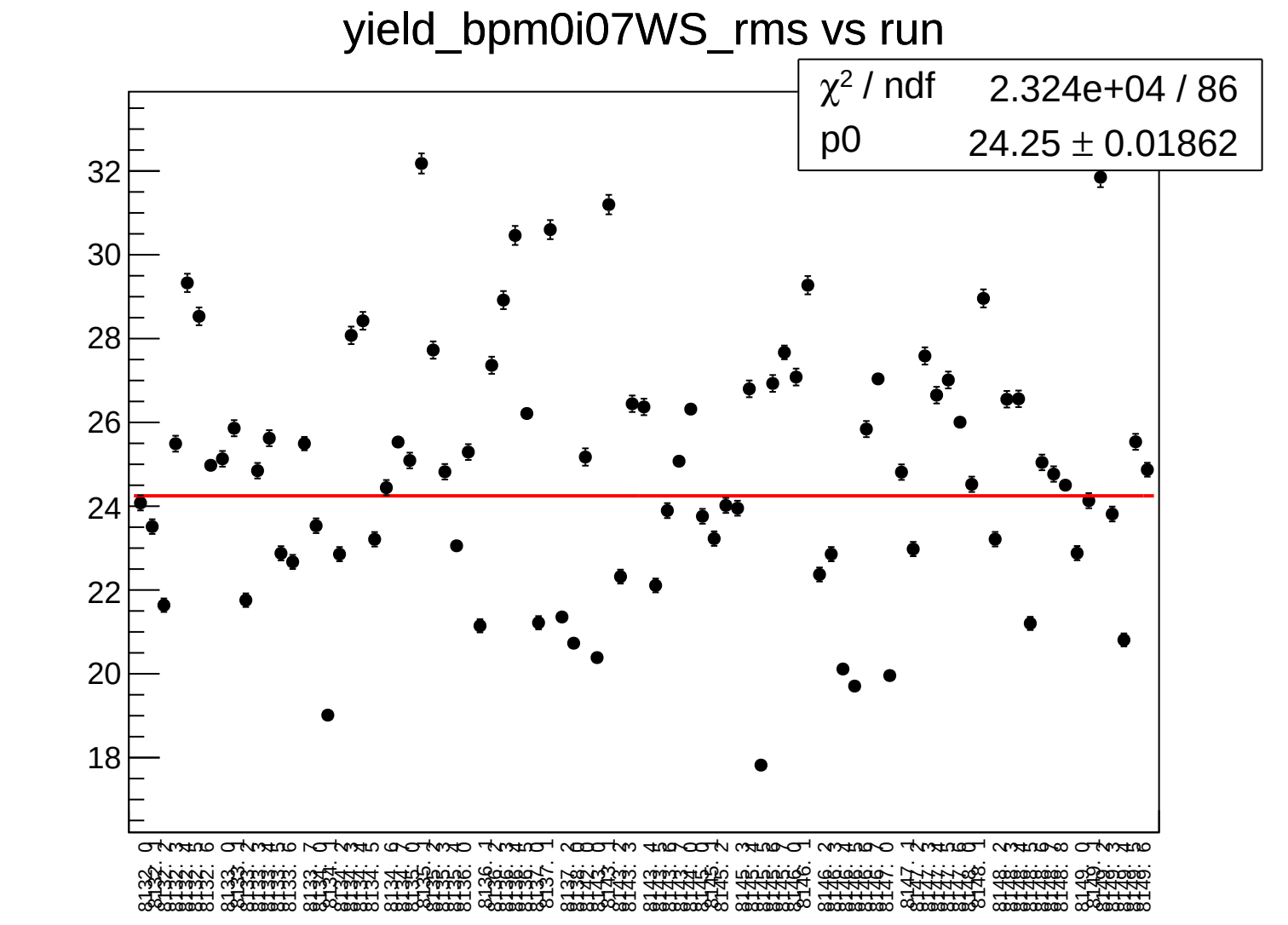

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 1.496e+04 / 86
p0 1.722e+05 ± 0.332
172.26
172.24
172.22
172.2
172.18
172.16
172.14
172.12
pull
Entries 87
Mean −555.2
Std Dev 0
20
10
0
−10
−20

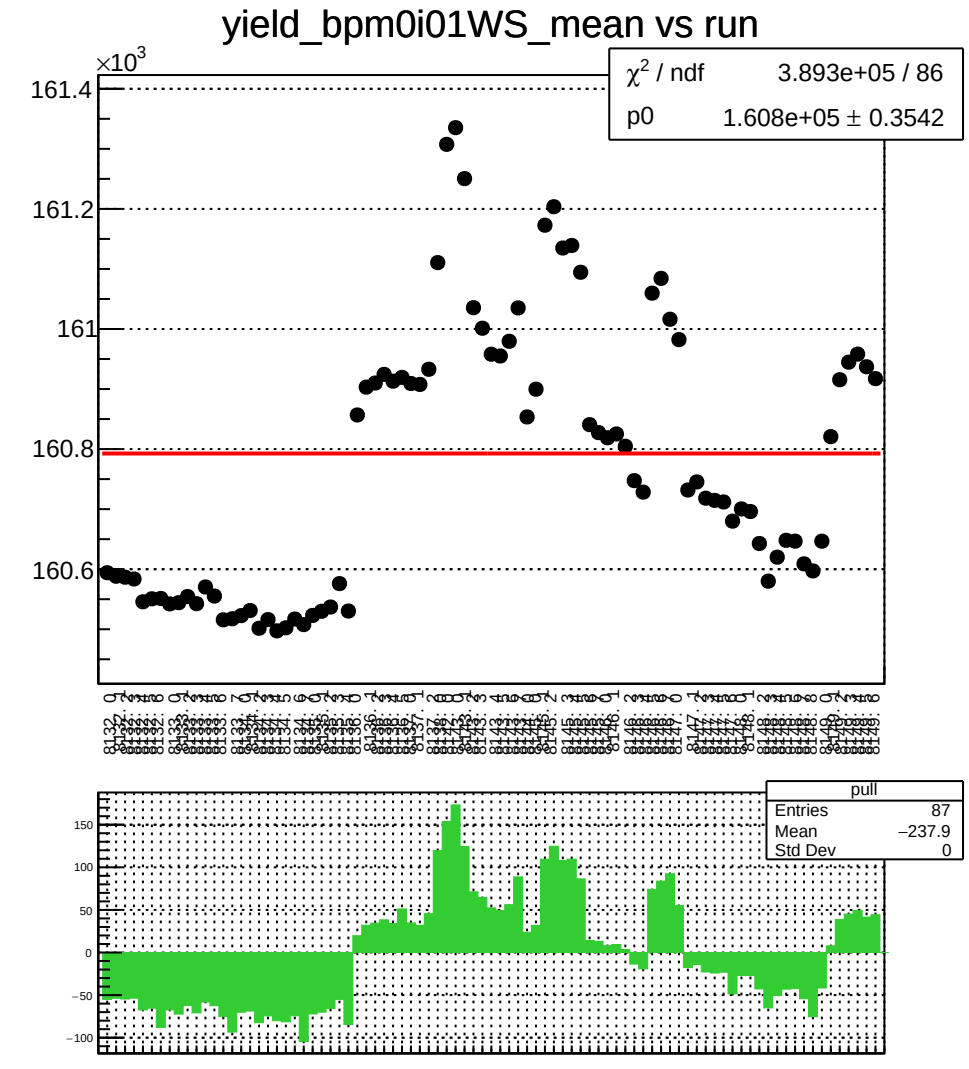

pull1D
Entries 87
Mean 3.277
Std Dev 5.097
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

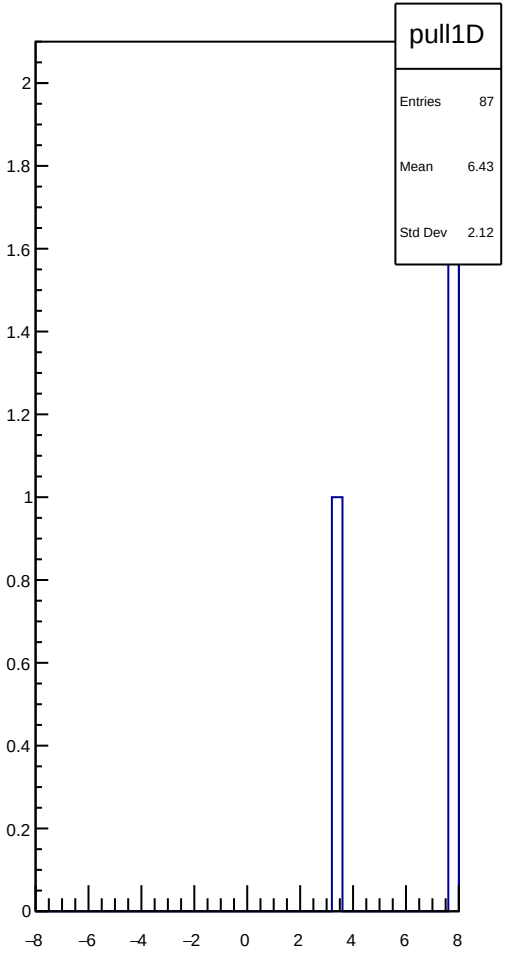

yield_bpm2i01WS_rms vs run
χ² / ndf 5761 / 86
p0 307.2 ± 0.2347
360
340
320
300
280

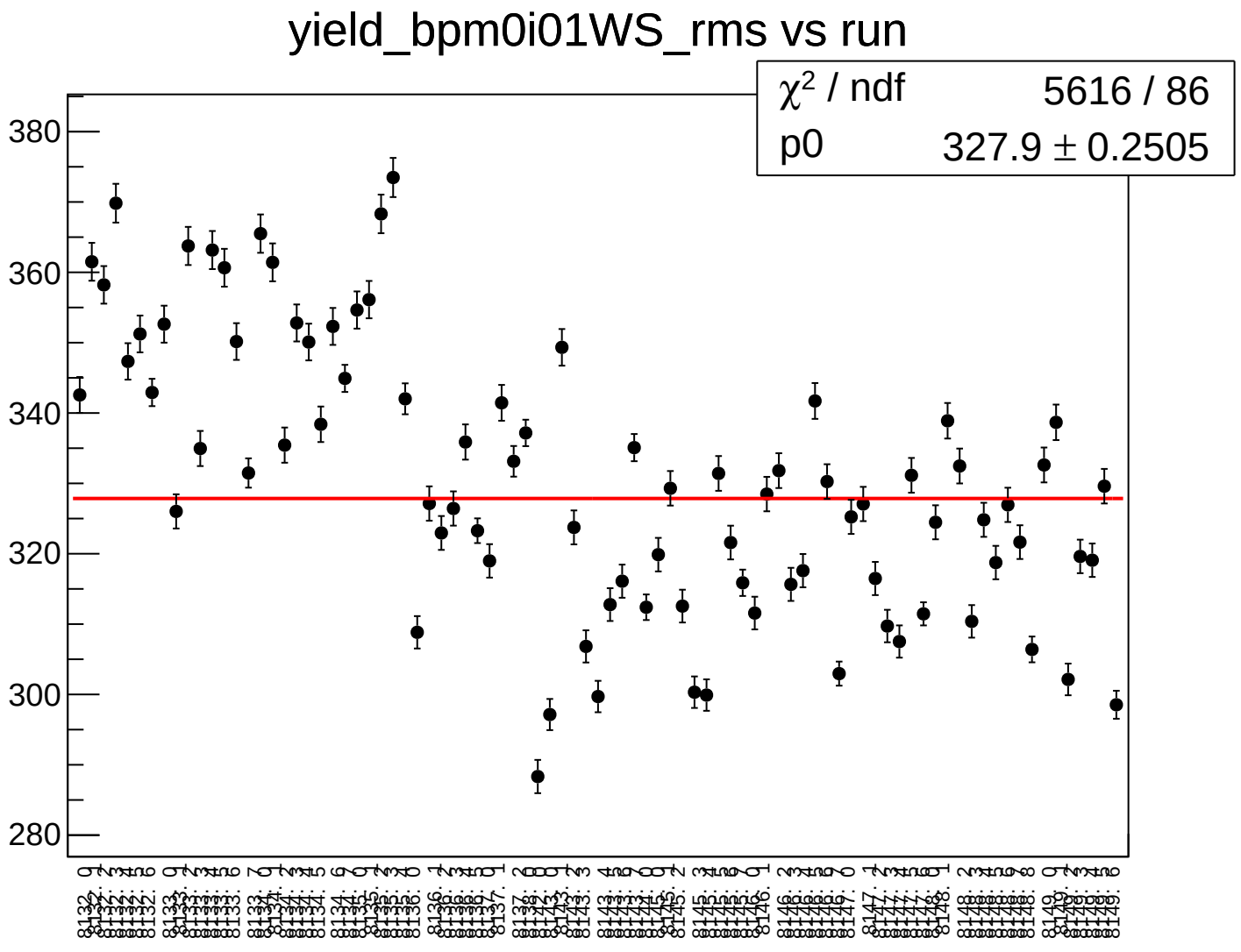

yield_bpm0i07WS_mean vs run
χ² / ndf 4.971e+05 / 86
p0 −1.381e+04 ± 0.02633
−13770
−13780
−13790
−13800
−13810
−13820
−13830
−13840
−13850
pull
Entries 87
Mean −3276
Std Dev 0
150
100
50
0
−50
−100
−150

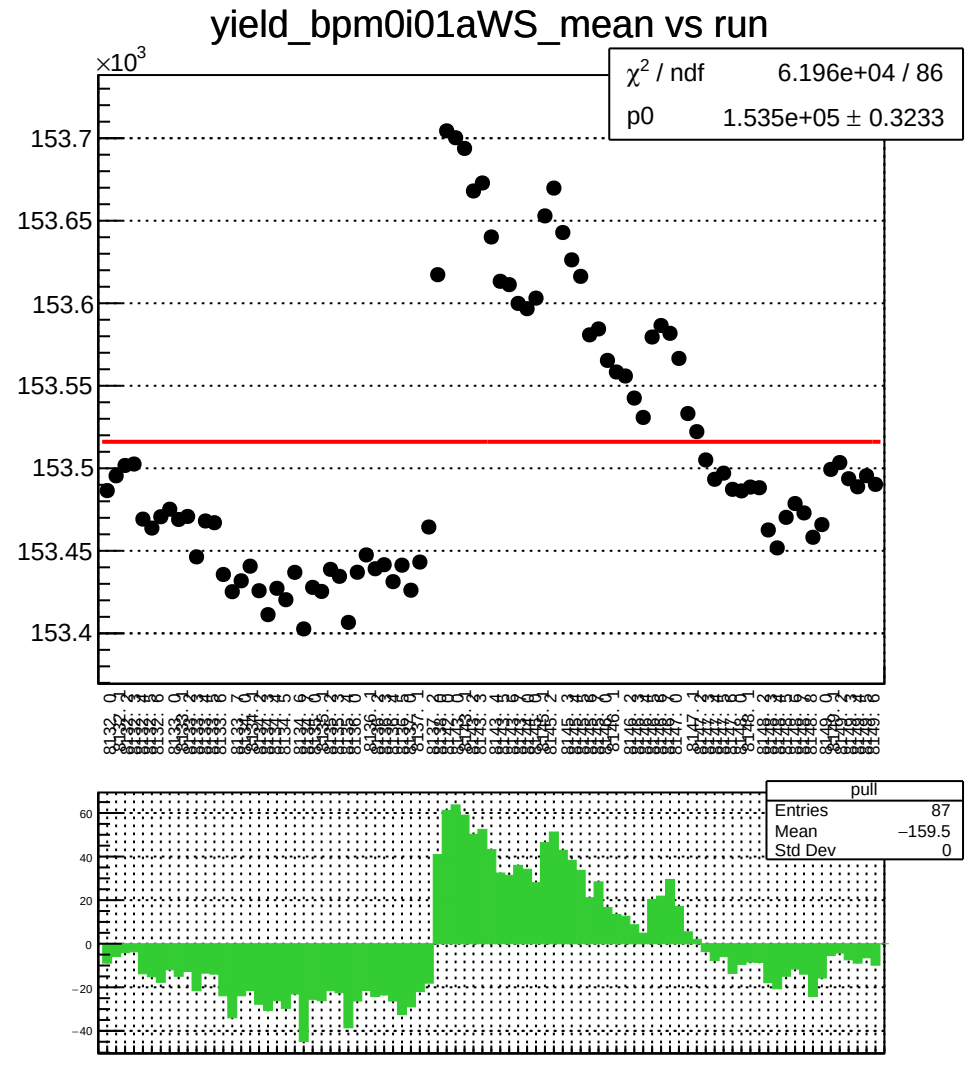

pull1D
Entries 87
Mean 5.355
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

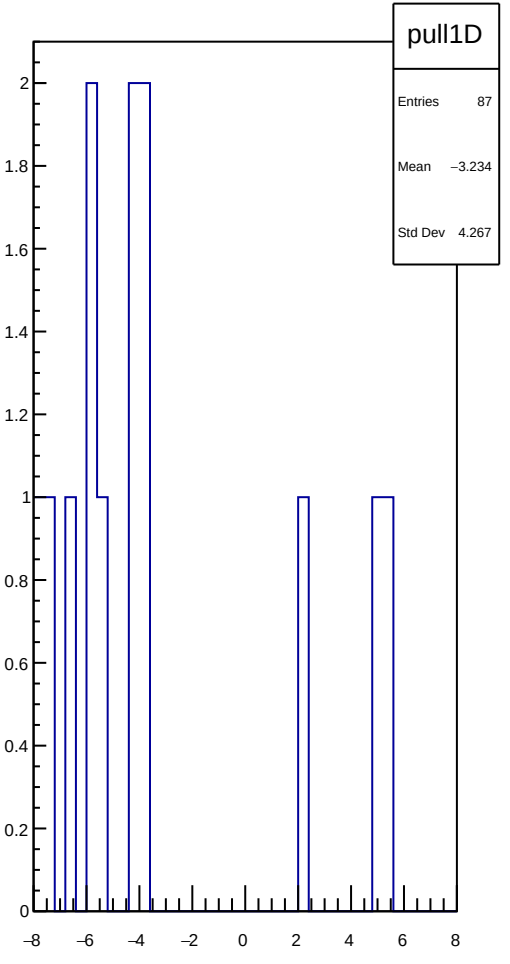

yield_bpm0i07WS_rms vs run
χ² / ndf 2.324e+04 / 86
p0 24.25 ± 0.01862
32
30
28
26
24
22
20
18

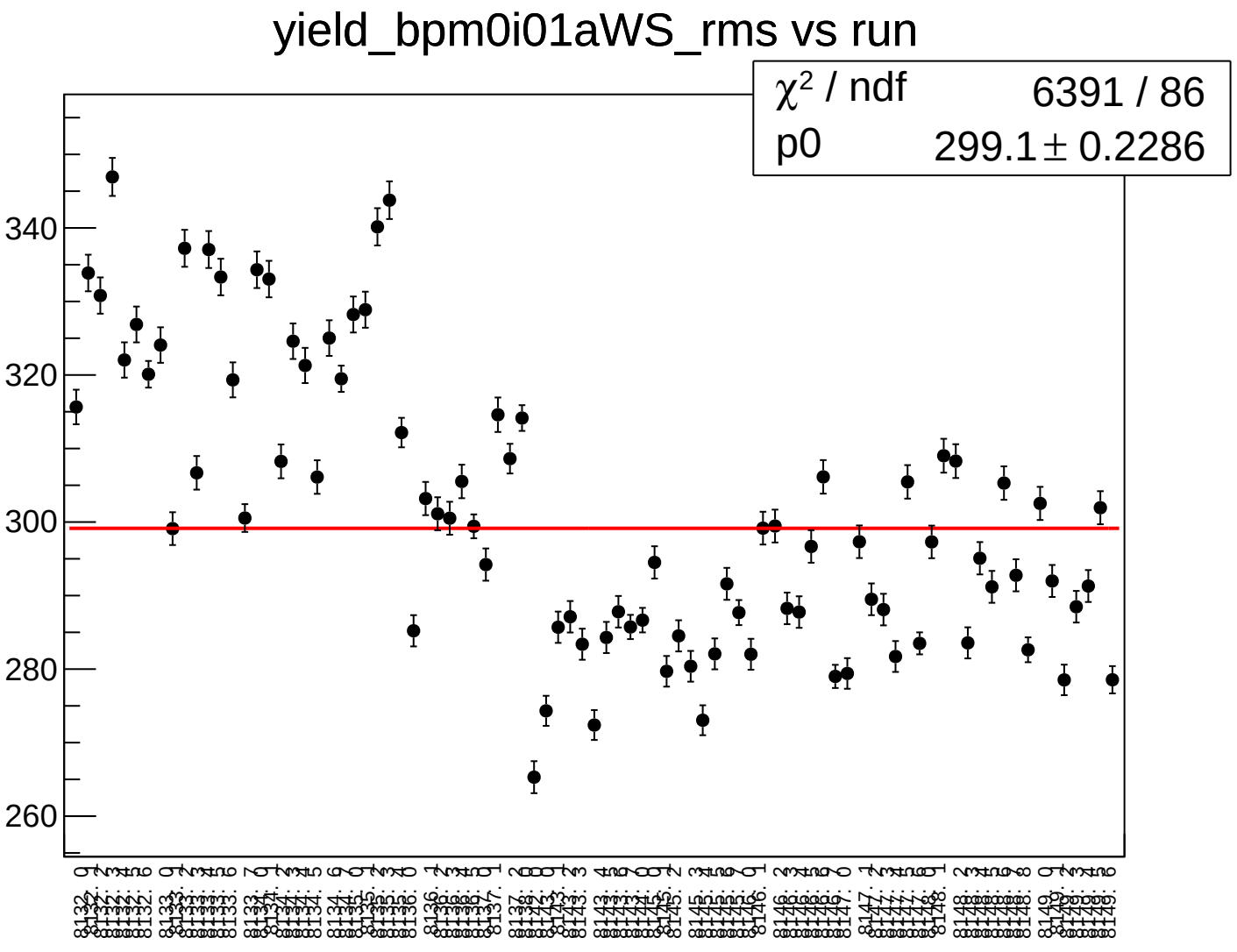

yield_bpm0i01WS_mean vs run
×10^3
χ² / ndf 3.893e+05 / 86
p0 1.608e+05 ± 0.3542
161.4
161.2
161
160.8
160.6
pull
Entries 87
Mean −237.9
Std Dev 0
150
100
50
0
−50
−100

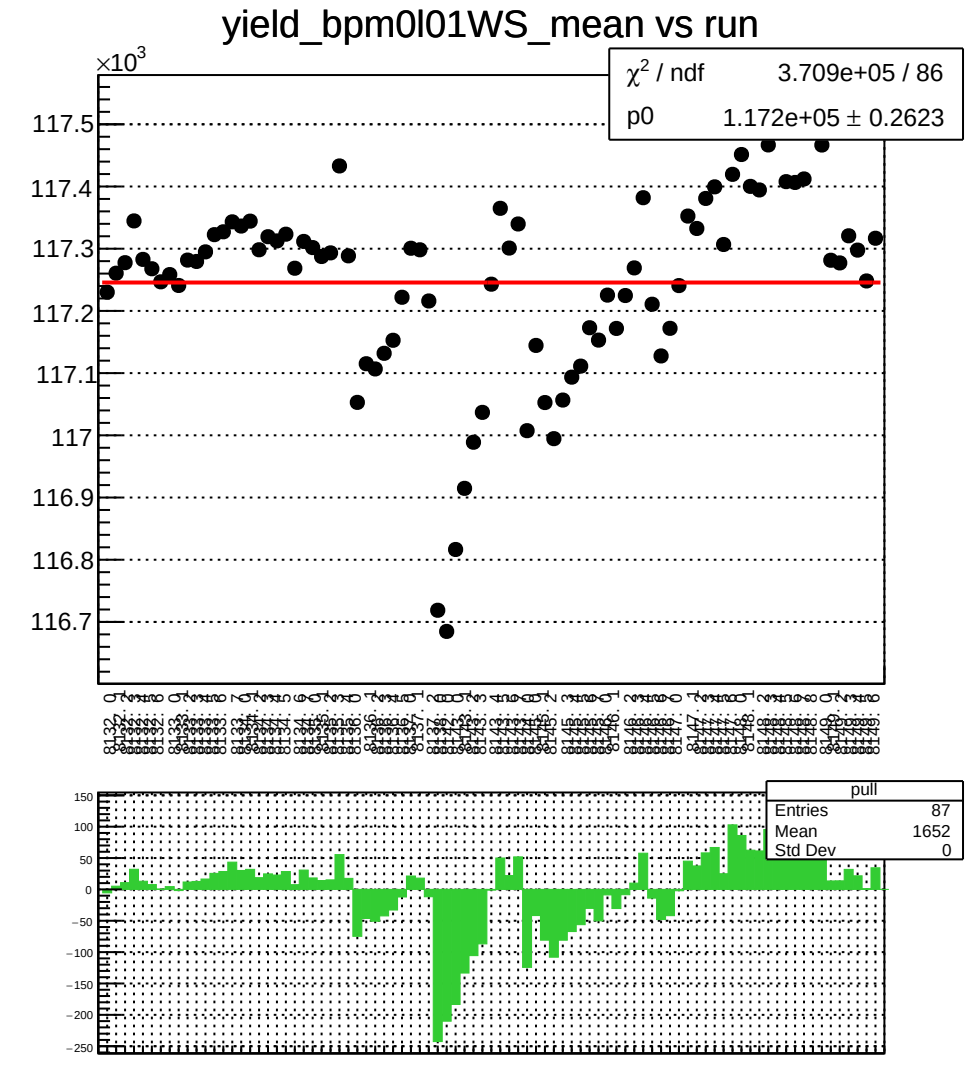

pull1D
Entries 87
Mean 6.43
Std Dev 2.12
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

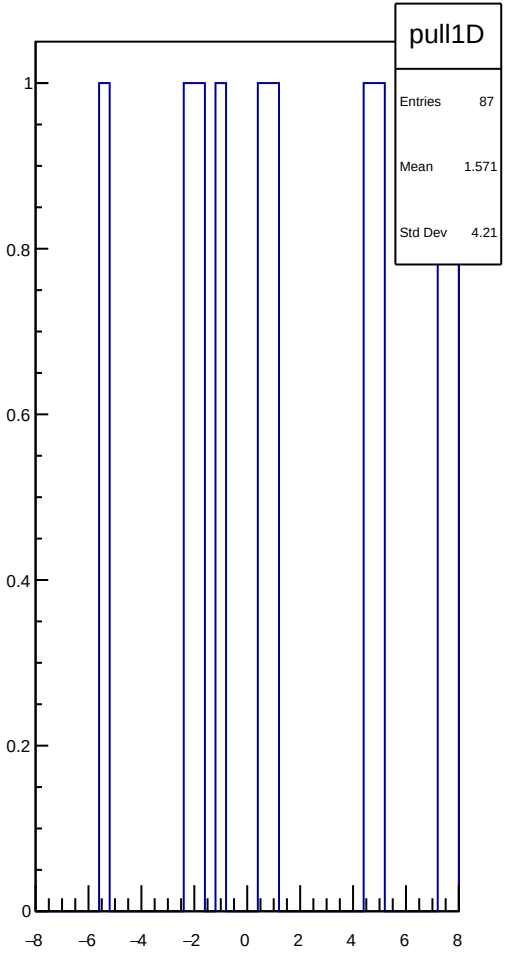

yield_bpm0i01WS_rms vs run
χ² / ndf 5616 / 86
p0 327.9 ± 0.2505
380
360
340
320
300
280

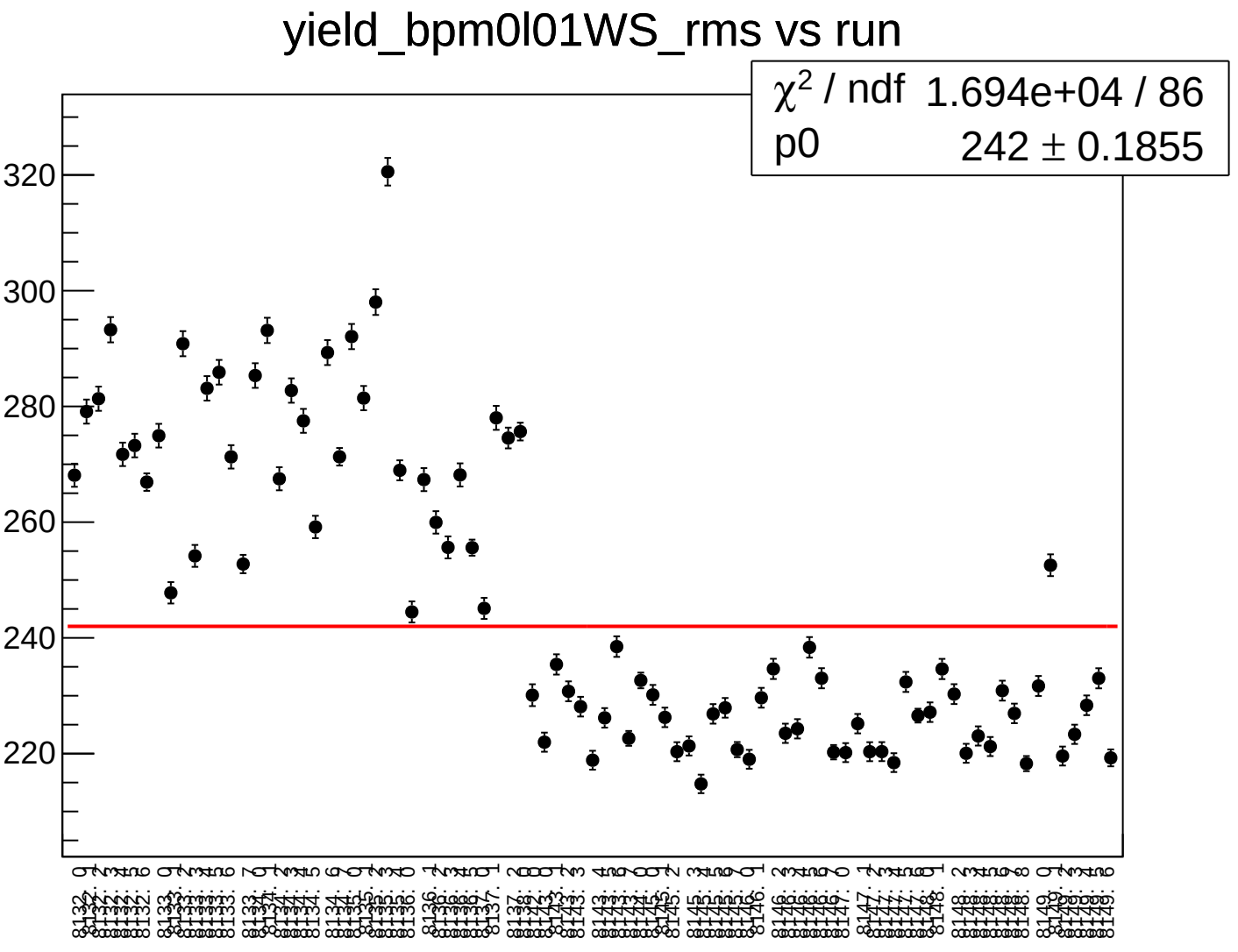

yield_bpm0i01aWS_mean vs run
×10^3
χ² / ndf 6.196e+04 / 86
p0 1.535e+05 ± 0.3233
153.7
153.65
153.6
153.55
153.5
153.45
153.4
pull
Entries 87
Mean −159.5
Std Dev 0
60
40
20
0
−20
−40

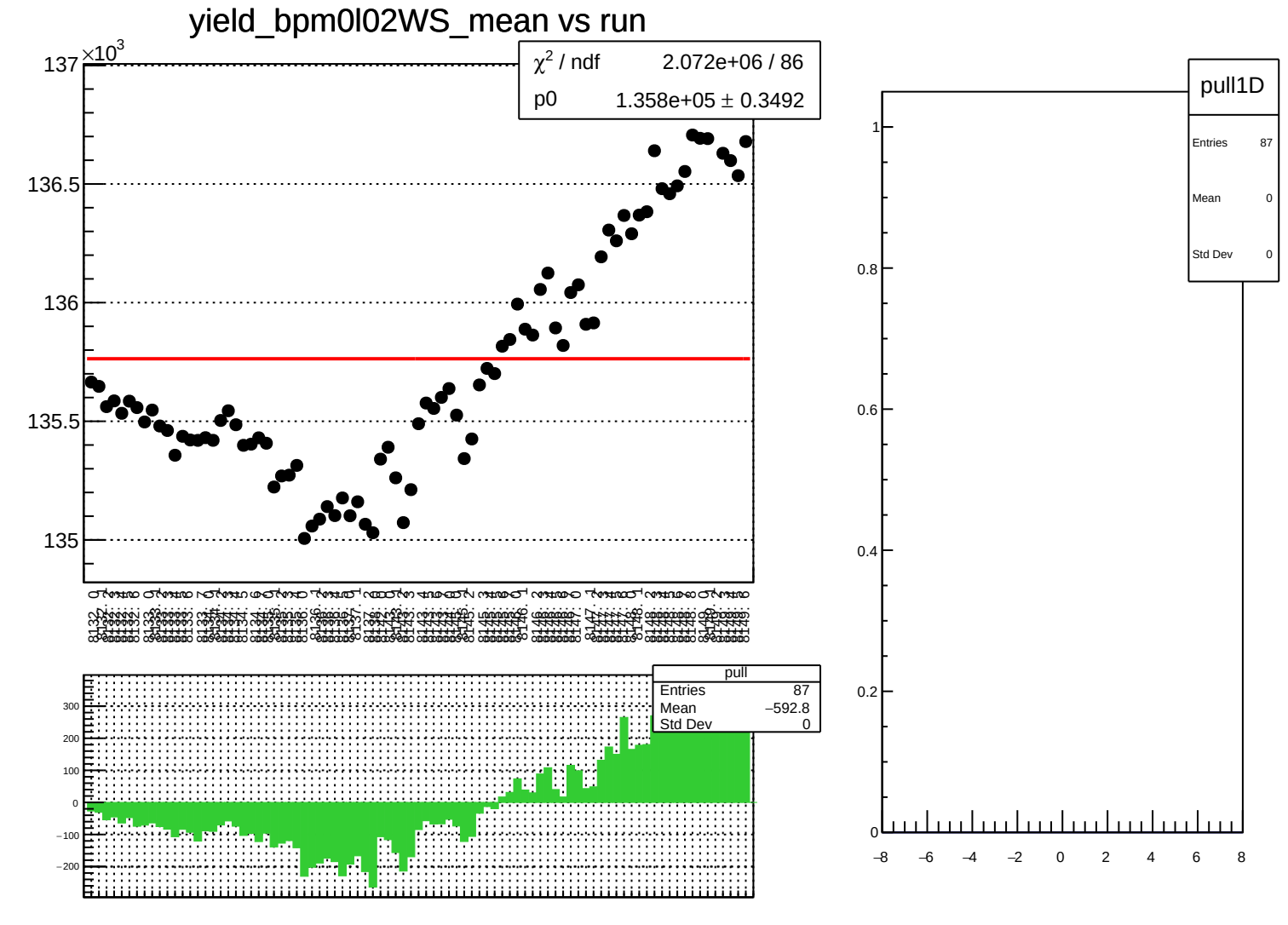

pull1D
Entries 87
Mean −3.234
Std Dev 4.267
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

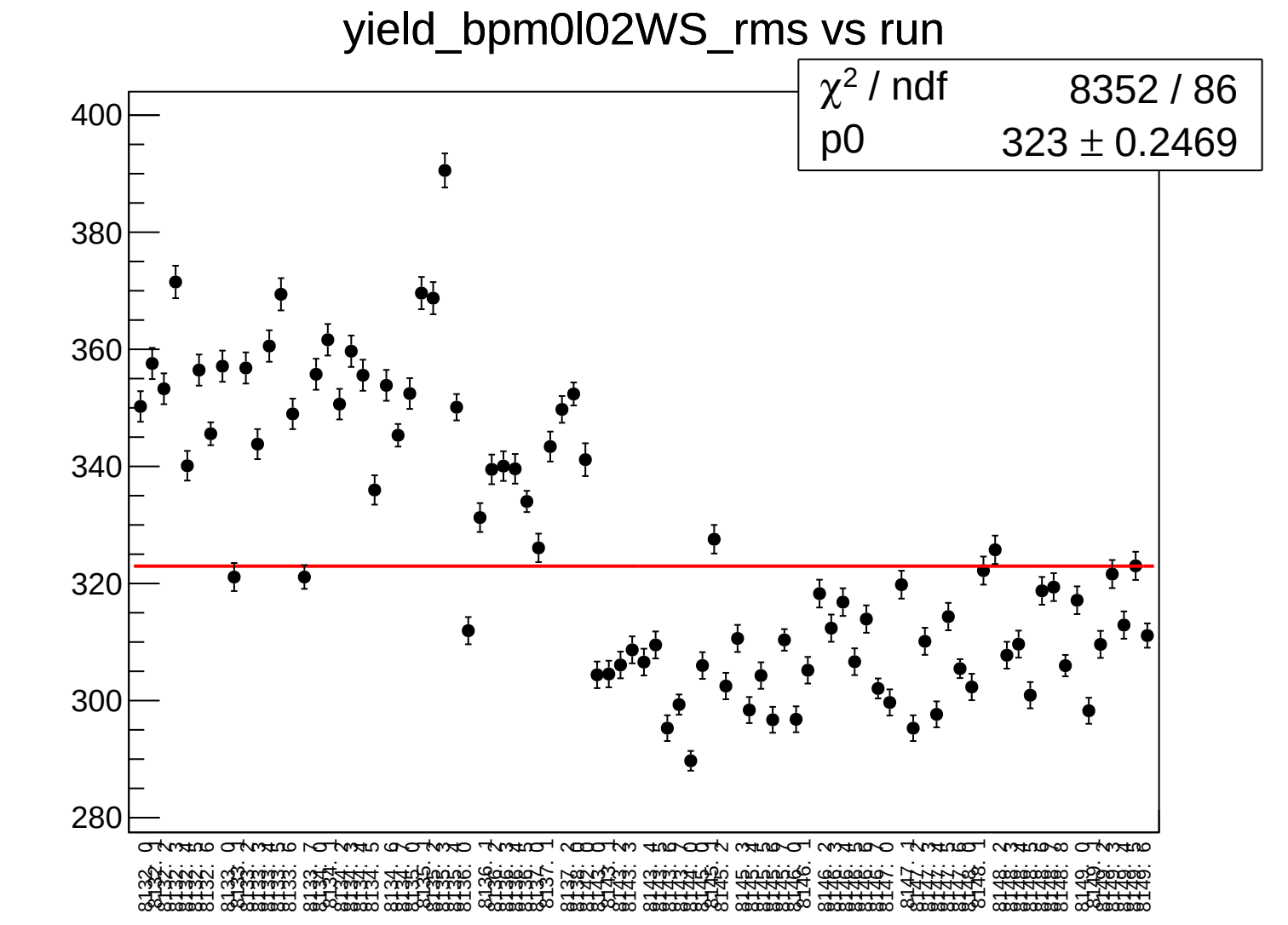

yield_bpm0i01aWS_rms vs run
χ² / ndf 6391 / 86
p0 299.1 ± 0.2286
340
320
300
280
260

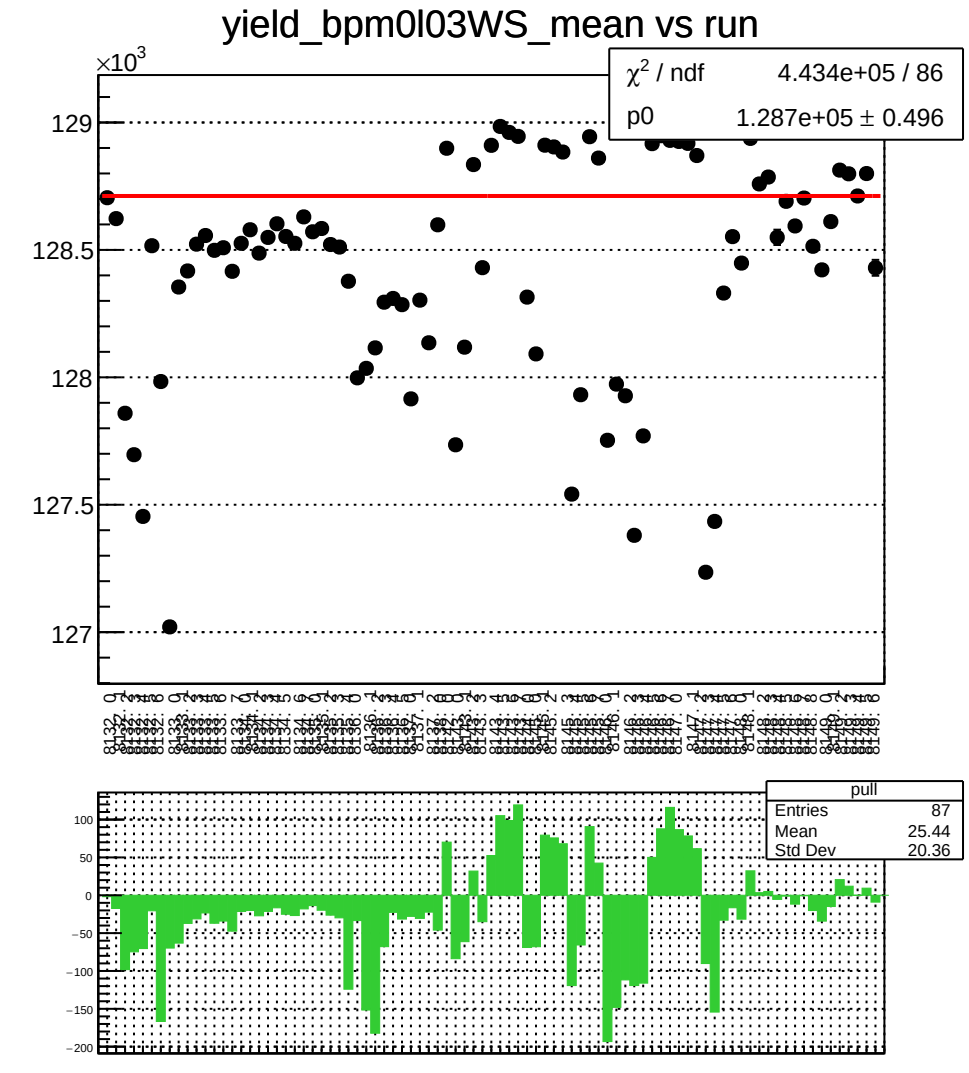

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 3.709e+05 / 86
p0 1.172e+05 ± 0.2623
117.5
117.4
117.3
117.2
117.1
117
116.9
116.8
116.7
pull
Entries 87
Mean 1652
Std Dev 0
150
100
50
0
−50
−100
−150
−200
−250

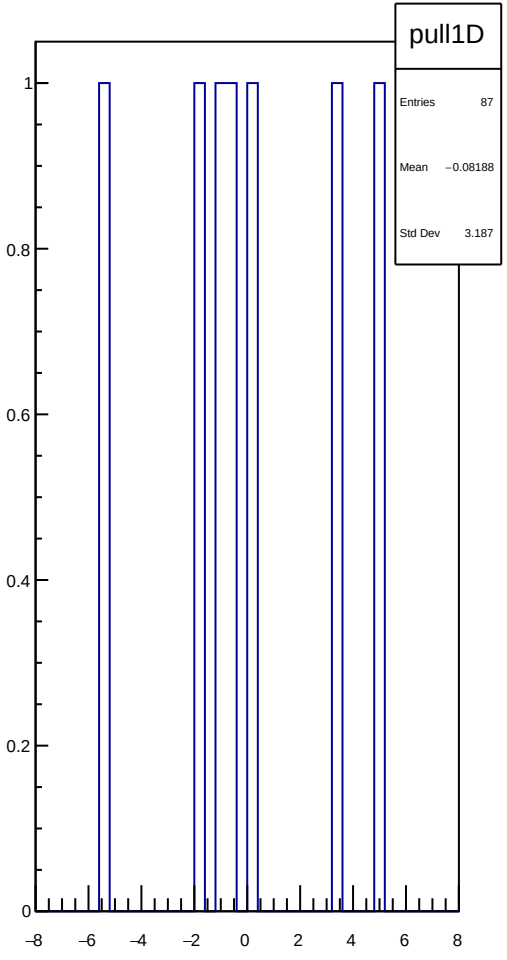

pull1D
Entries 87
Mean 1.571
Std Dev 4.21
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

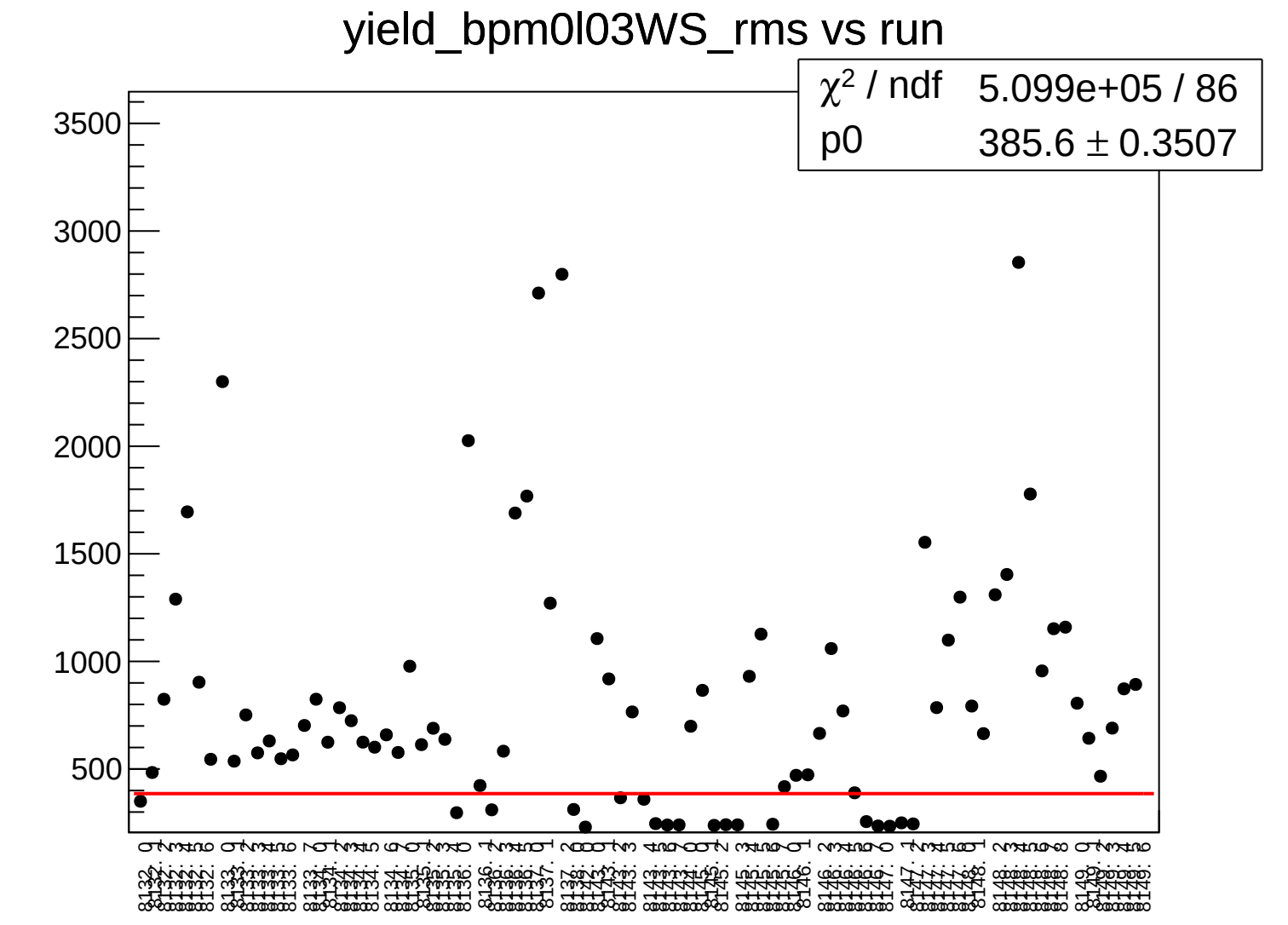

yield_bpm0l01WS_rms vs run
χ² / ndf 1.694e+04 / 86
p0 242 ± 0.1855
320
300
280
260
240
220

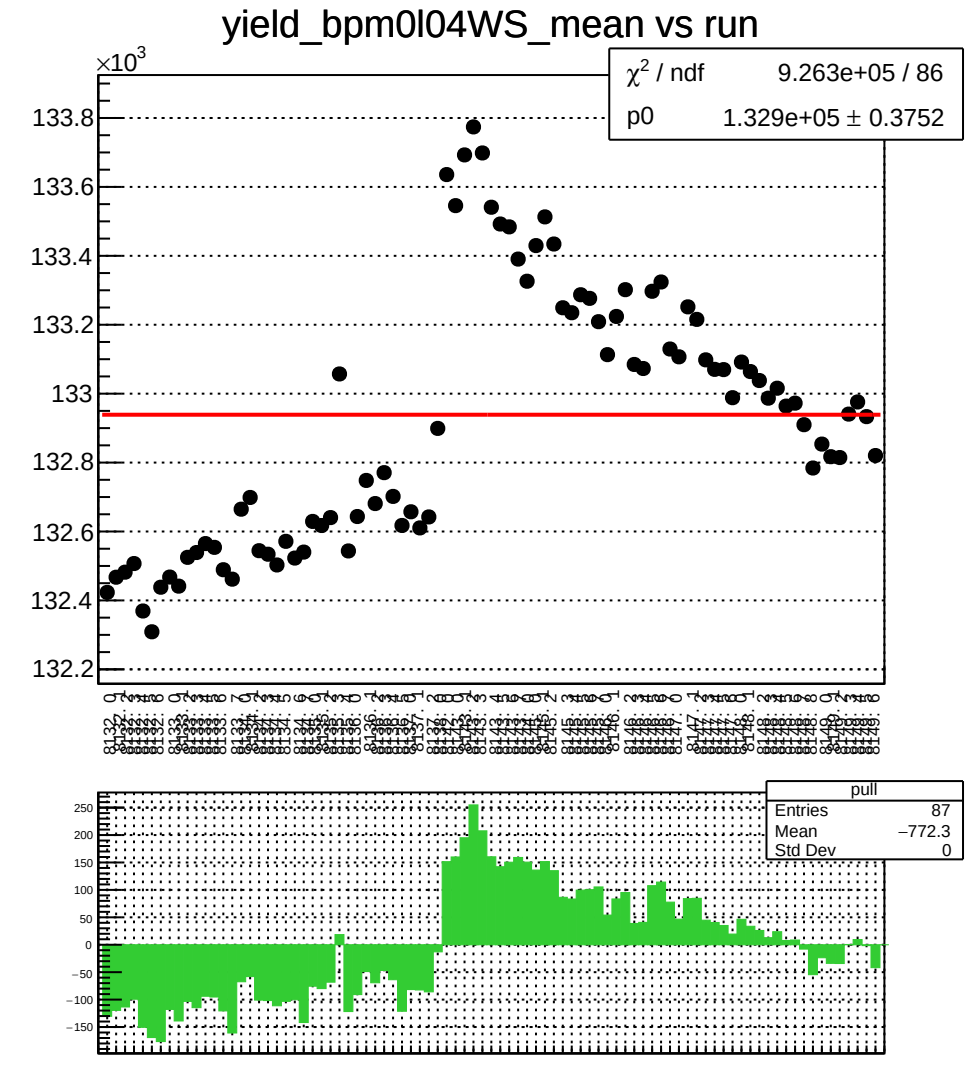

yield_bpm0l02WS_mean vs run
×10^3
137
136.5
136
135.5
135
χ² / ndf 2.072e+06 / 86
p0 1.358e+05 ± 0.3492
pull
Entries 87
Mean −592.8
Std Dev 0
300
200
100
0
−100
−200
pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

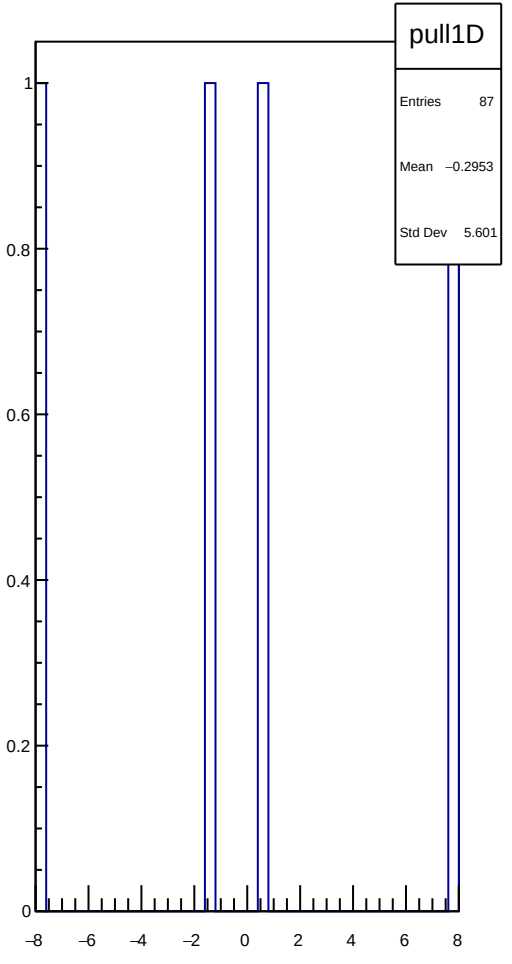

yield_bpm0l02WS_rms vs run
χ² / ndf 8352 / 86
p0 323 ± 0.2469
400
380
360
340
320
300
280

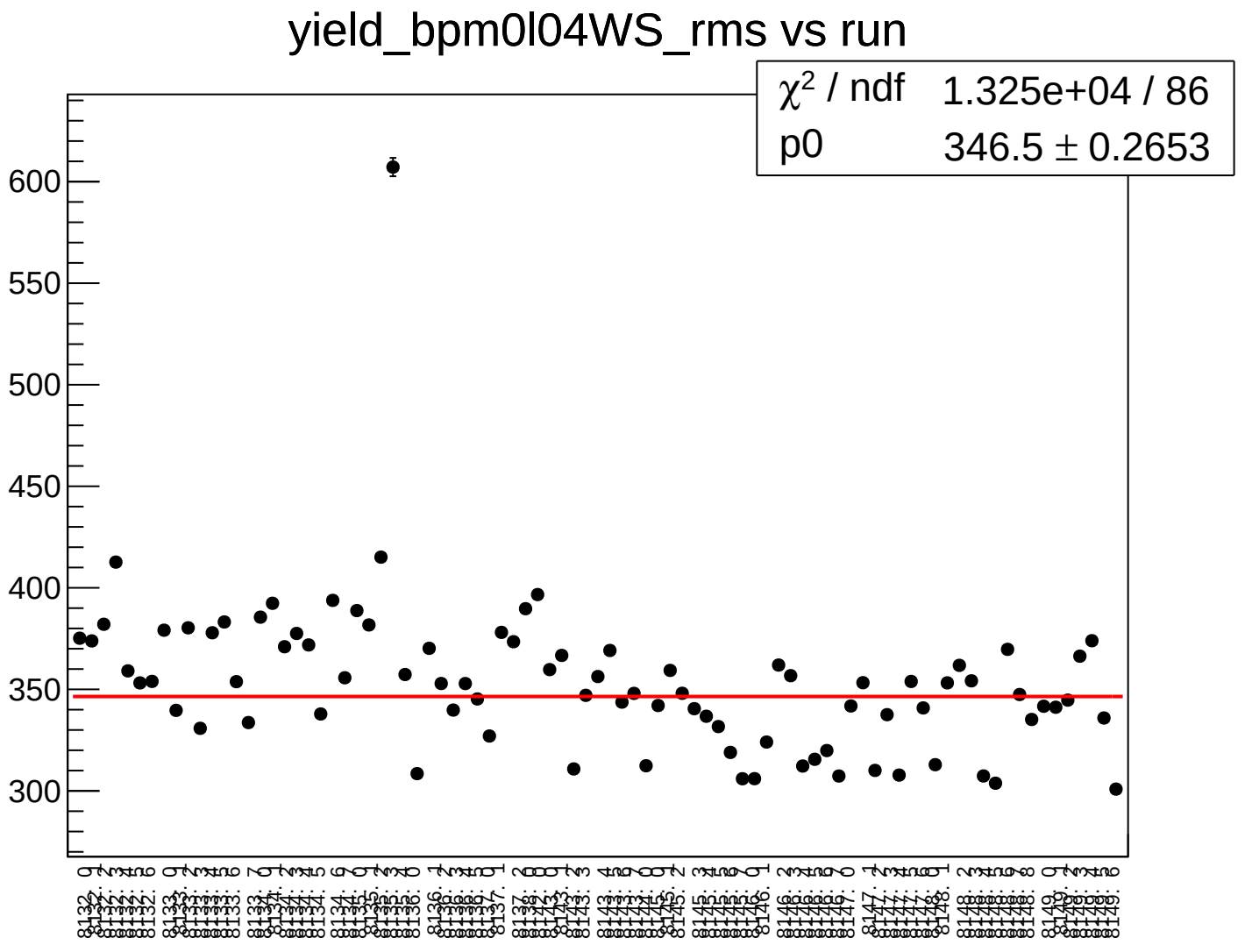

yield_bpm0l03WS_mean vs run
×10^3
χ² / ndf 4.434e+05 / 86
p0 1.287e+05 ± 0.496
129
128.5
128
127.5
127
pull
Entries 87
Mean 25.44
Std Dev 20.36
100
50
0
−50
−100
−150
−200

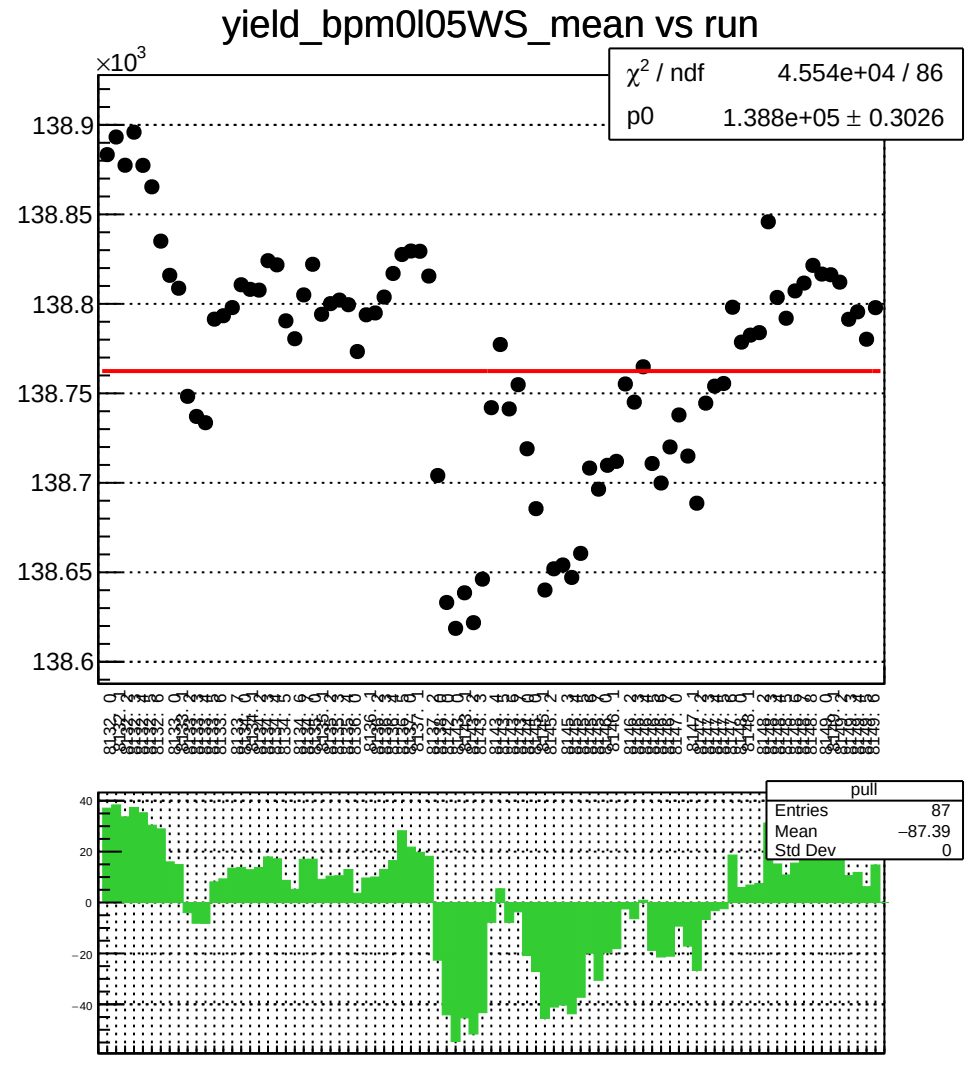

pull1D
Entries 87
Mean −0.08188
Std Dev 3.187
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

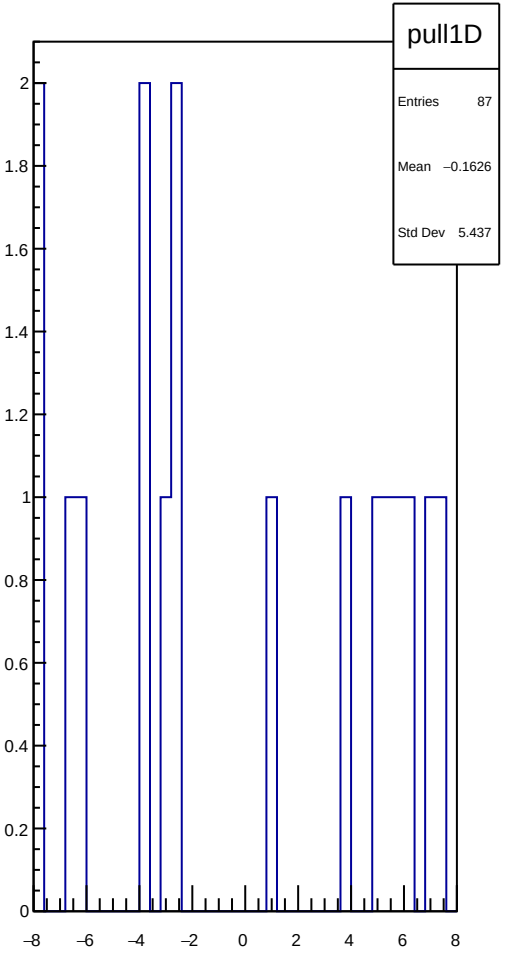

yield_bpm0l03WS_rms vs run
χ² / ndf 5.099e+05 / 86
p0 385.6 ± 0.3507
3500
3000
2500
2000
1500
1000
500

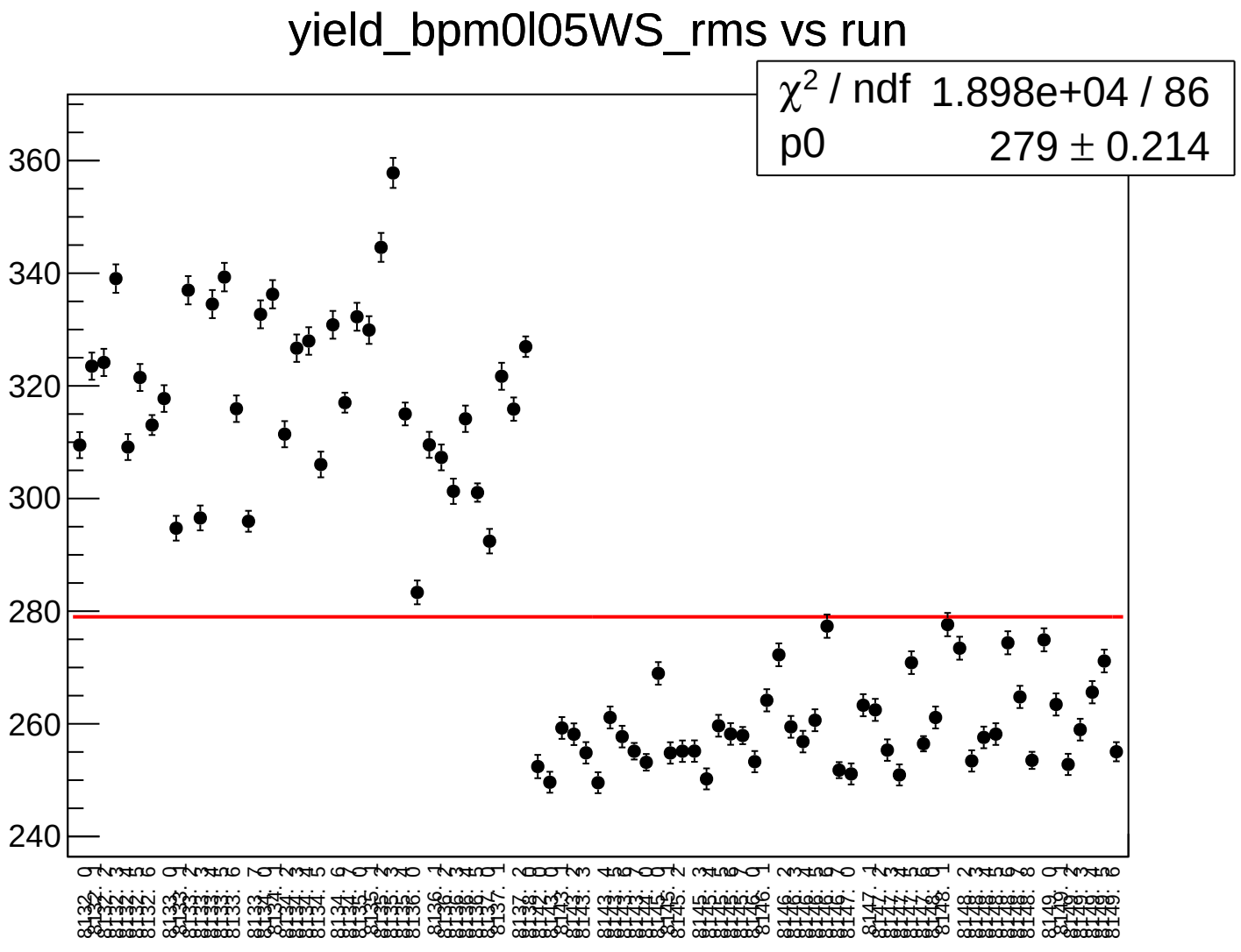

yield_bpm0l04WS_mean vs run
×10^3
χ² / ndf 9.263e+05 / 86
p0 1.329e+05 ± 0.3752
133.8
133.6
133.4
133.2
133
132.8
132.6
132.4
132.2
pull
Entries 87
Mean −772.3
Std Dev 0
250
200
150
100
50
0
−50
−100
−150

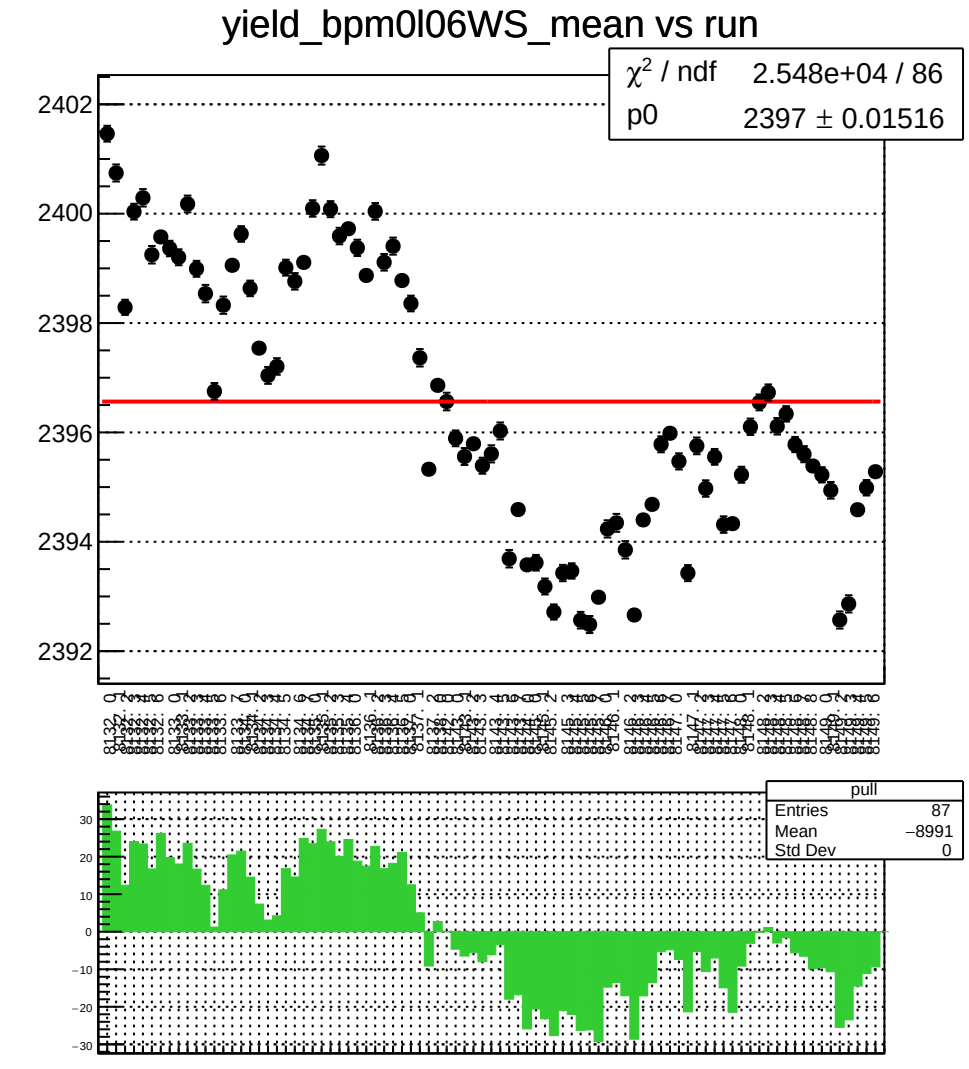

pull1D
Entries 87
Mean −0.2953
Std Dev 5.601
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

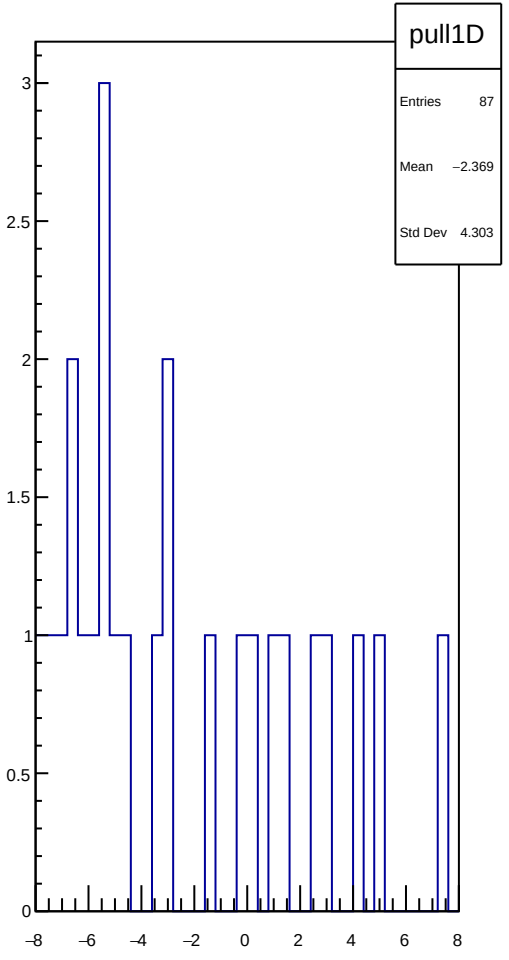

yield_bpm0l04WS_rms vs run
χ² / ndf 1.325e+04 / 86
p0 346.5 ± 0.2653
600
550
500
450
400
350
300

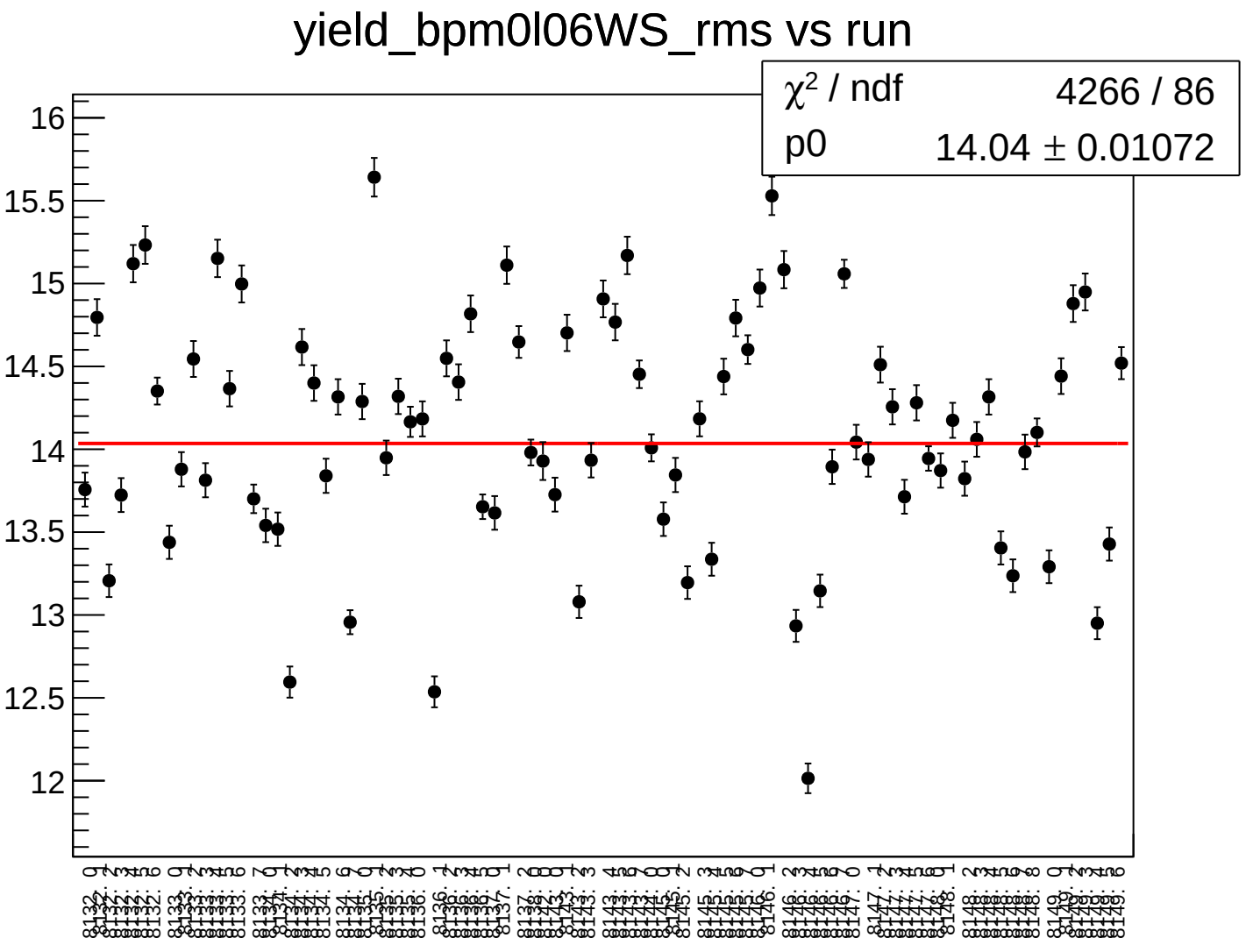

yield_bpm0l05WS_mean vs run
×10^3
χ^2 / ndf 4.554e+04 / 86
p0 1.388e+05 ± 0.3026
138.9
138.85
138.8
138.75
138.7
138.65
138.6
pull
Entries 87
Mean −87.39
Std Dev 0
40
20
0
−20
−40

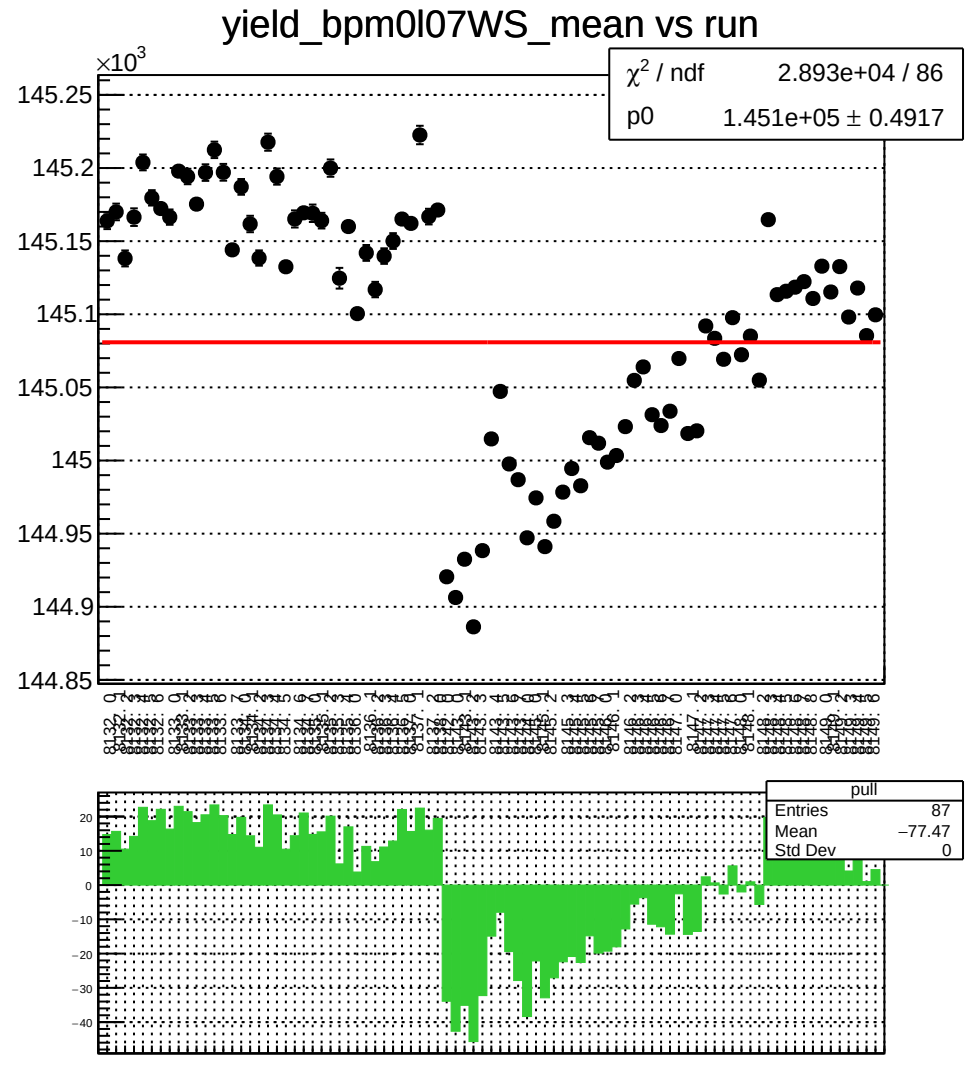

pull1D
Entries 87
Mean −0.1626
Std Dev 5.437
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

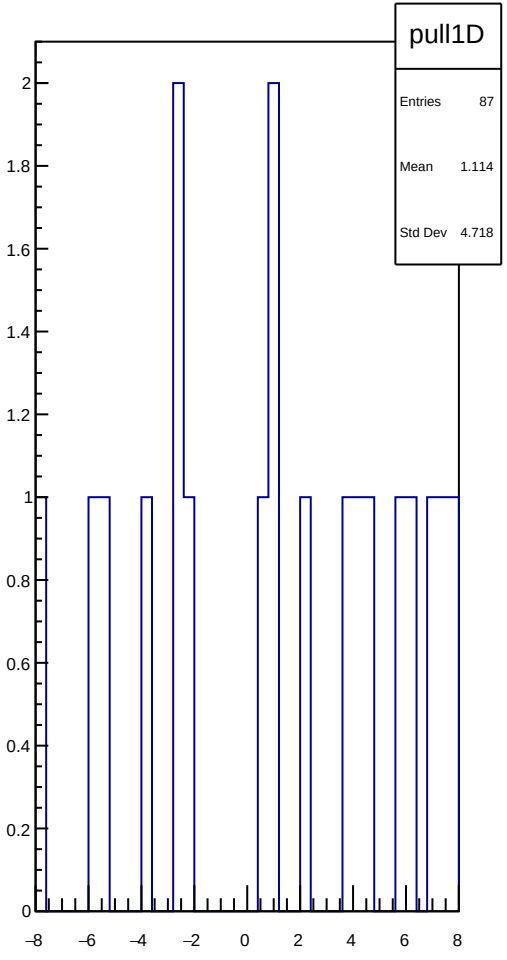

yield_bpm0l05WS_rms vs run
χ² / ndf 1.898e+04 / 86
p0 279 ± 0.214
360
340
320
300
280
260
240

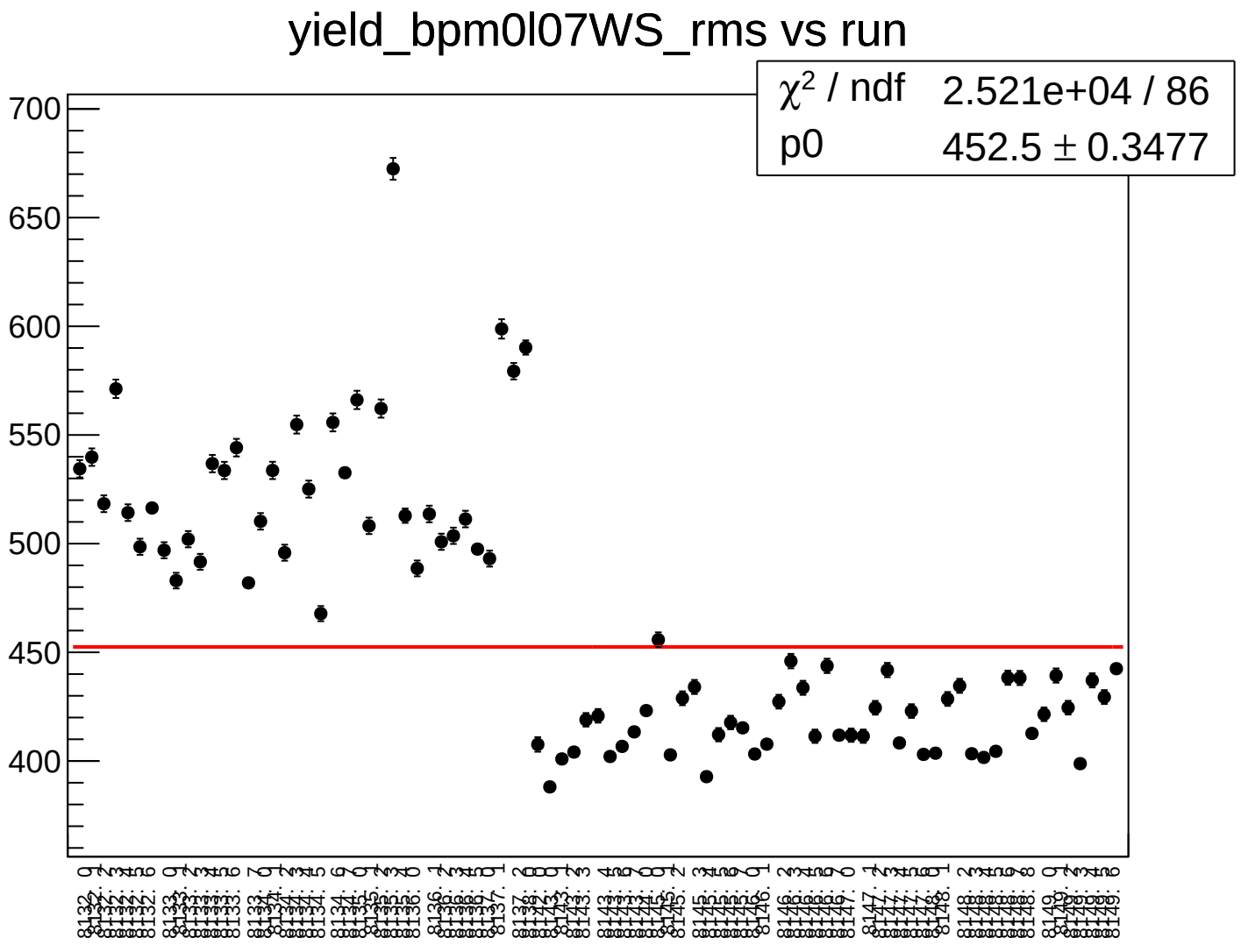

yield_bpm0l06WS_mean vs run
χ² / ndf 2.548e+04 / 86
p0 2397 ± 0.01516
2402
2400
2398
2396
2394
2392
pull
Entries 87
Mean −8991
Std Dev 0
30
20
10
0
−10
−20
−30

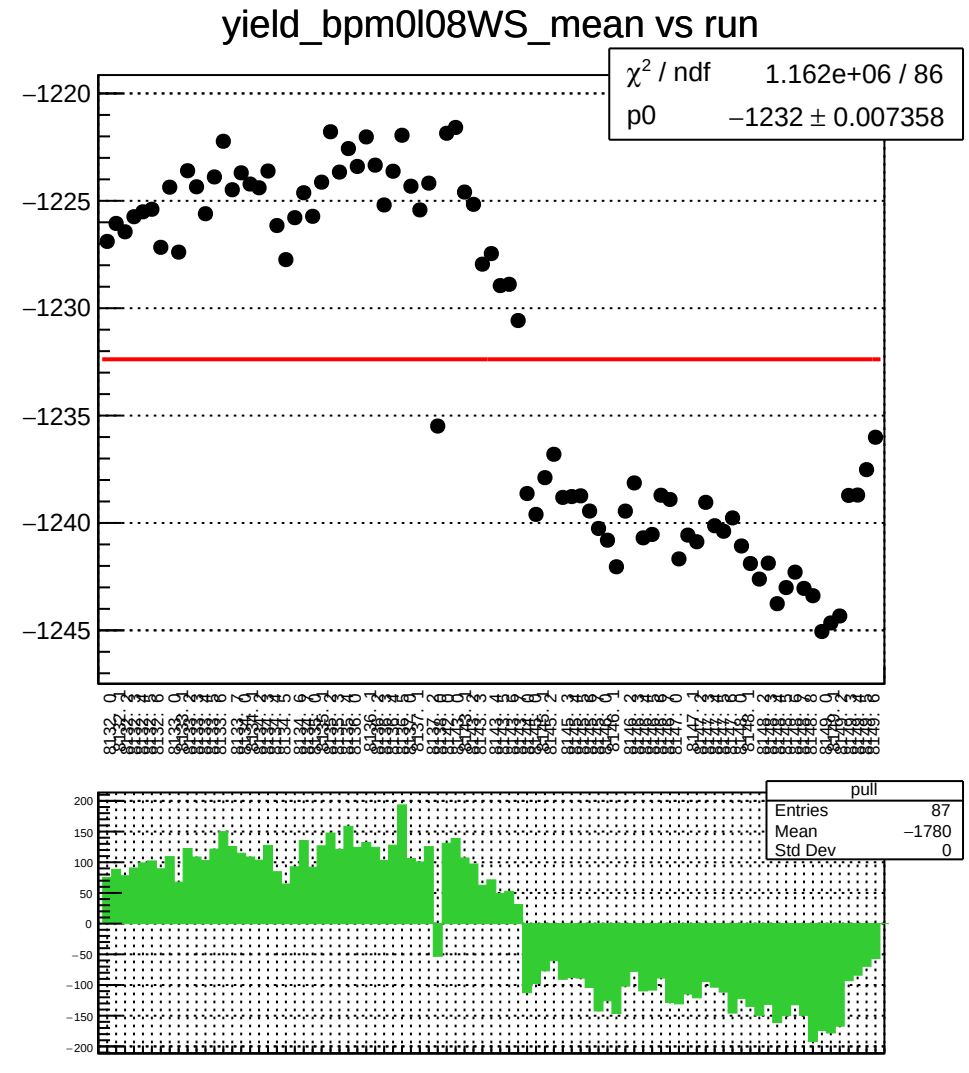

pull1D
Entries 87
Mean −2.369
Std Dev 4.303
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

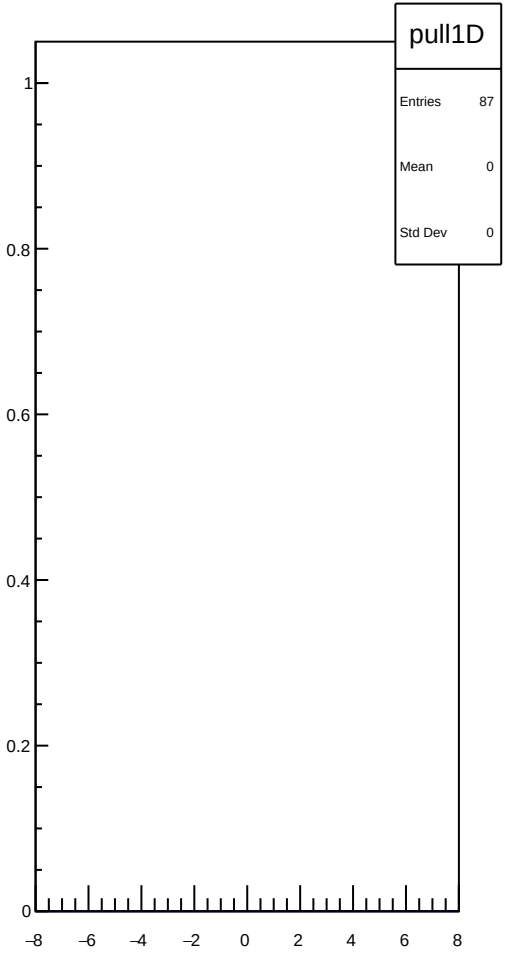

yield_bpm0l06WS_rms vs run
χ² / ndf 4266 / 86
p0 14.04 ± 0.01072
16
15.5
15
14.5
14
13.5
13
12.5
12

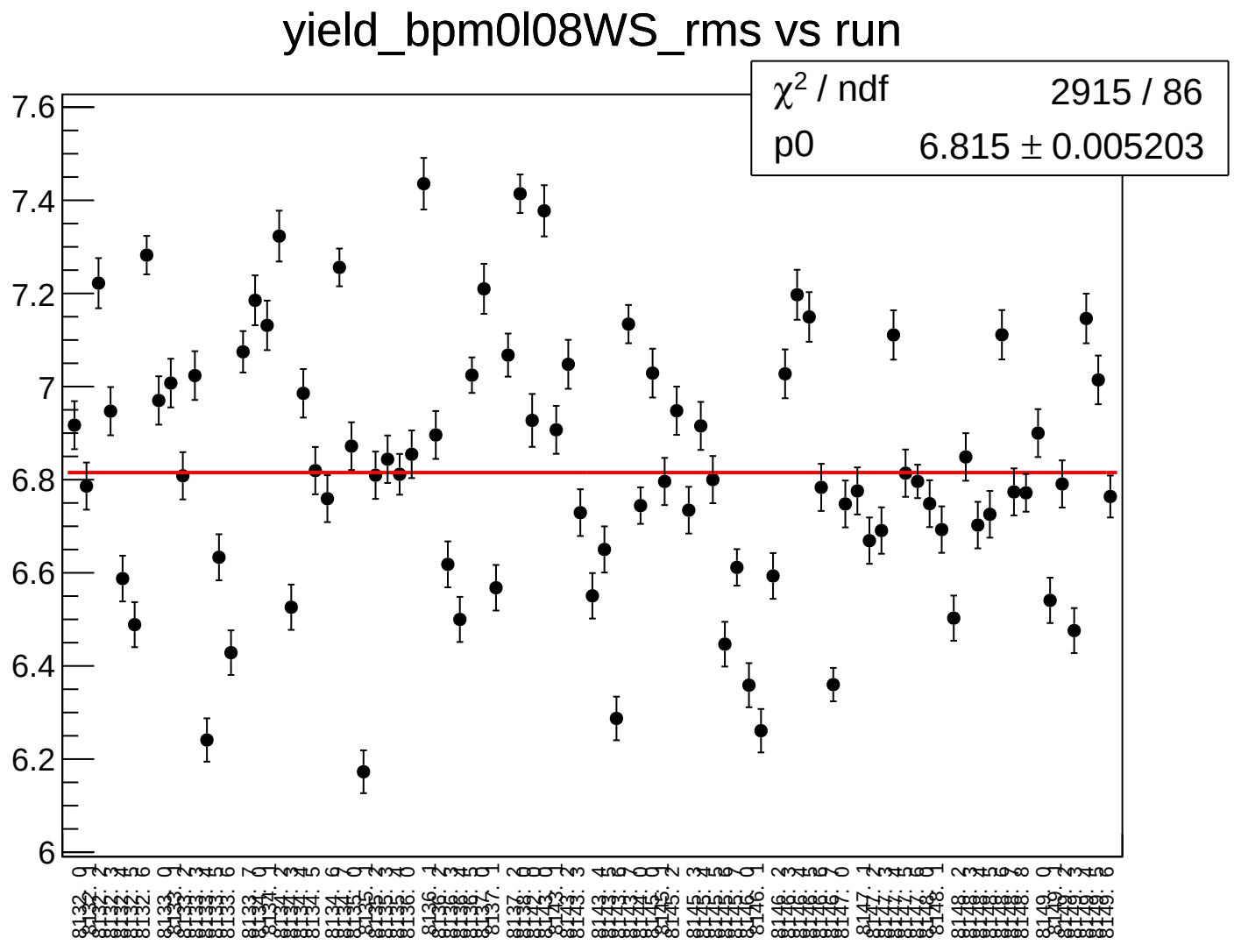

yield_bpm0l07WS_mean vs run
×10^3
χ² / ndf 2.893e+04 / 86
p0 1.451e+05 ± 0.4917
145.25
145.2
145.15
145.1
145.05
145
144.95
144.9
144.85
pull
Entries 87
Mean −77.47
Std Dev 0
20
10
0
−10
−20
−30
−40

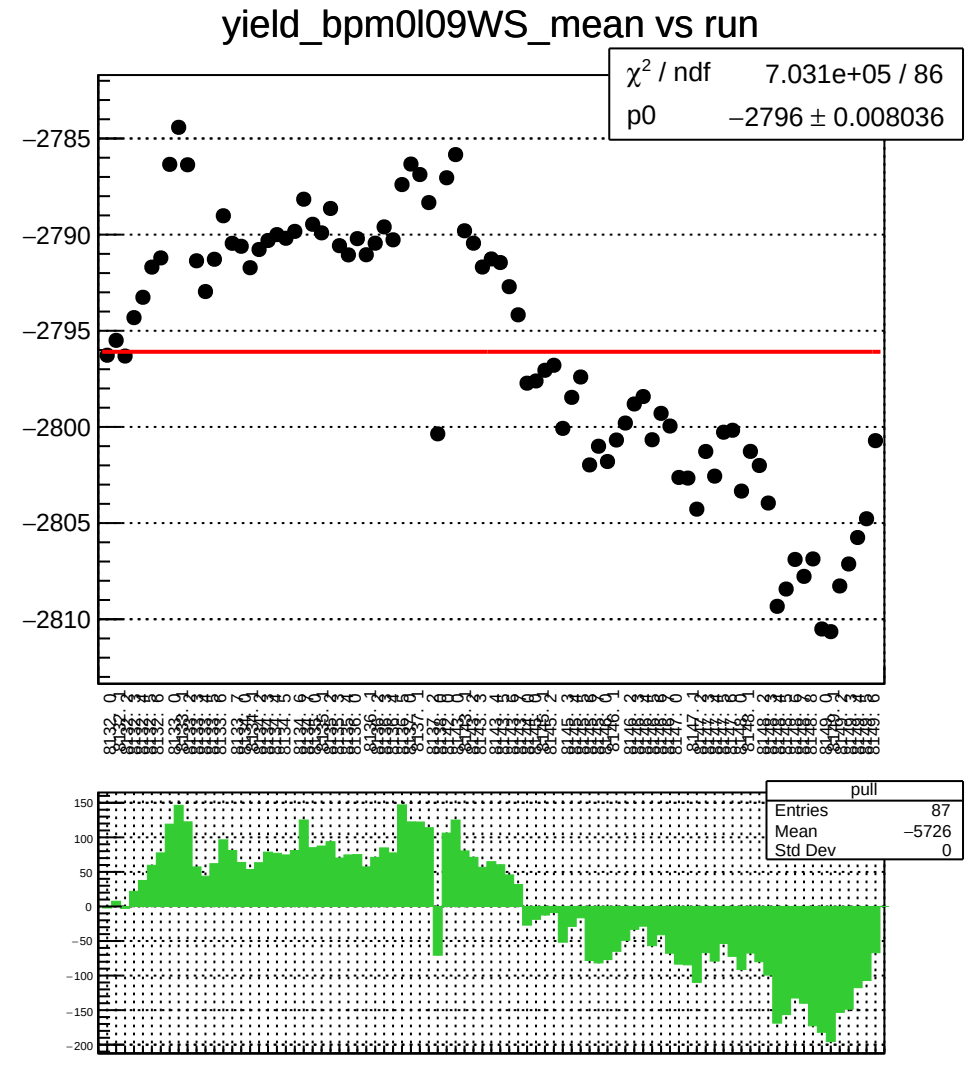

pull1D
Entries 87
Mean 1.114
Std Dev 4.718
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

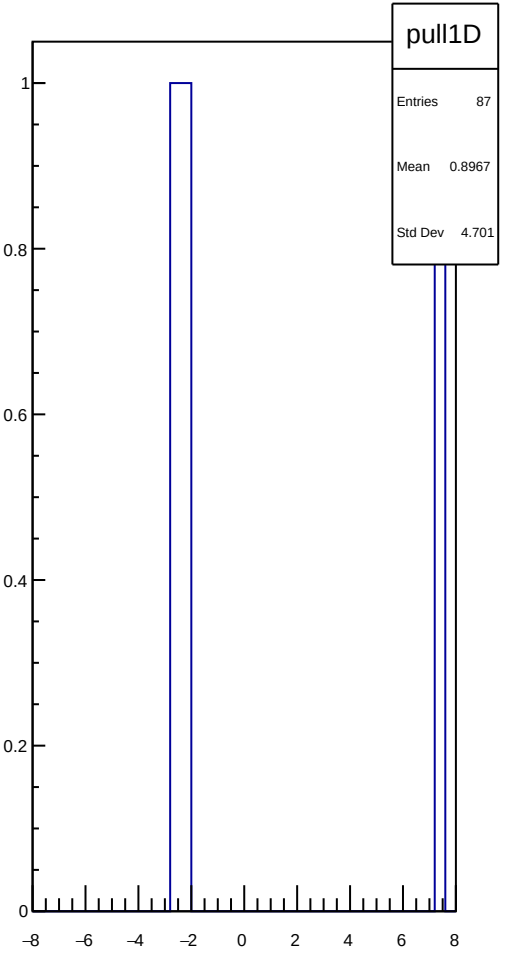

yield_bpm0l07WS_rms vs run
χ² / ndf 2.521e+04 / 86
p0 452.5 ± 0.3477
700
650
600
550
500
450
400

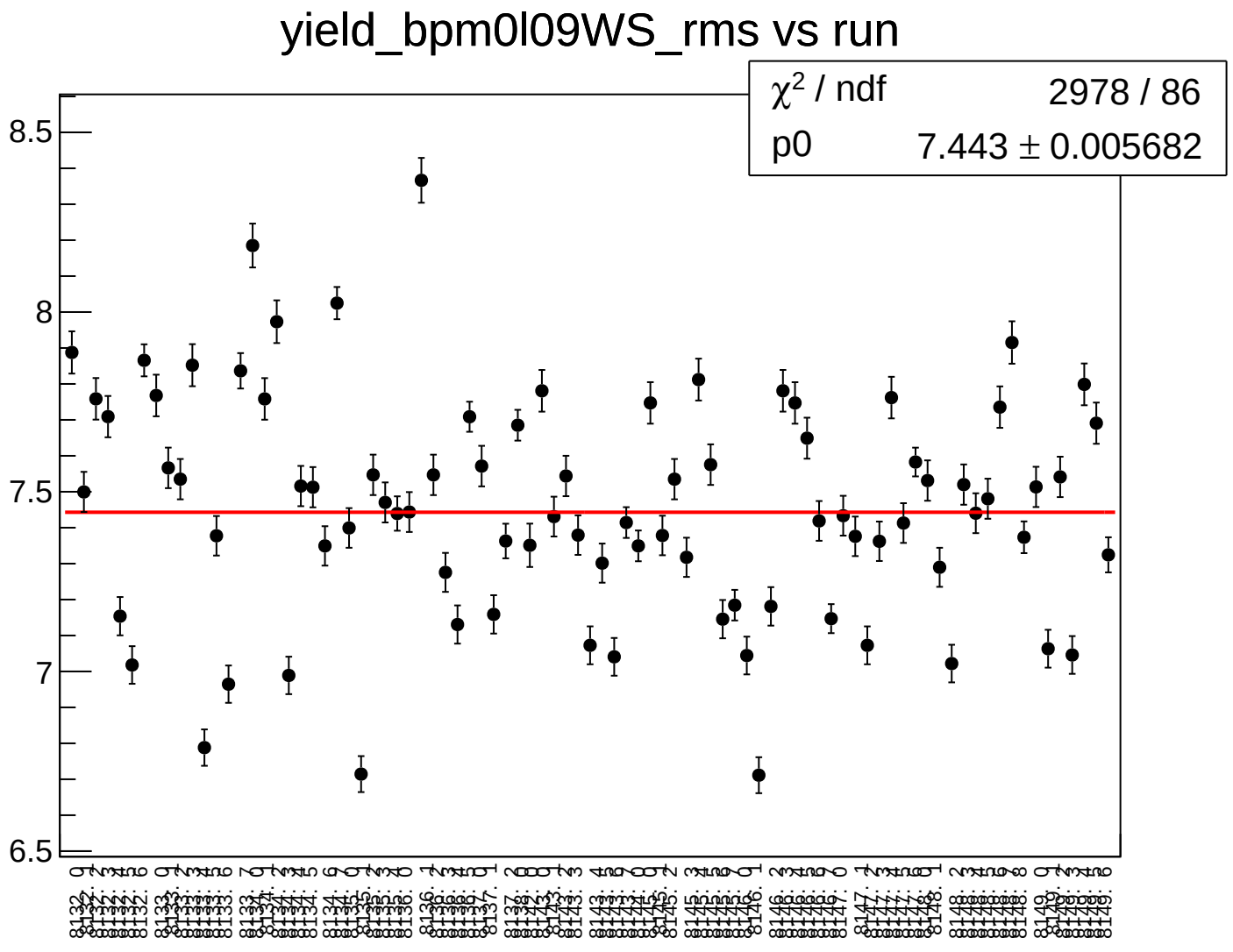

yield_bpm0l08WS_mean vs run
χ² / ndf 1.162e+06 / 86
p0 −1232 ± 0.007358
−1220
−1225
−1230
−1235
−1240
−1245
pull
Entries 87
Mean −1780
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200

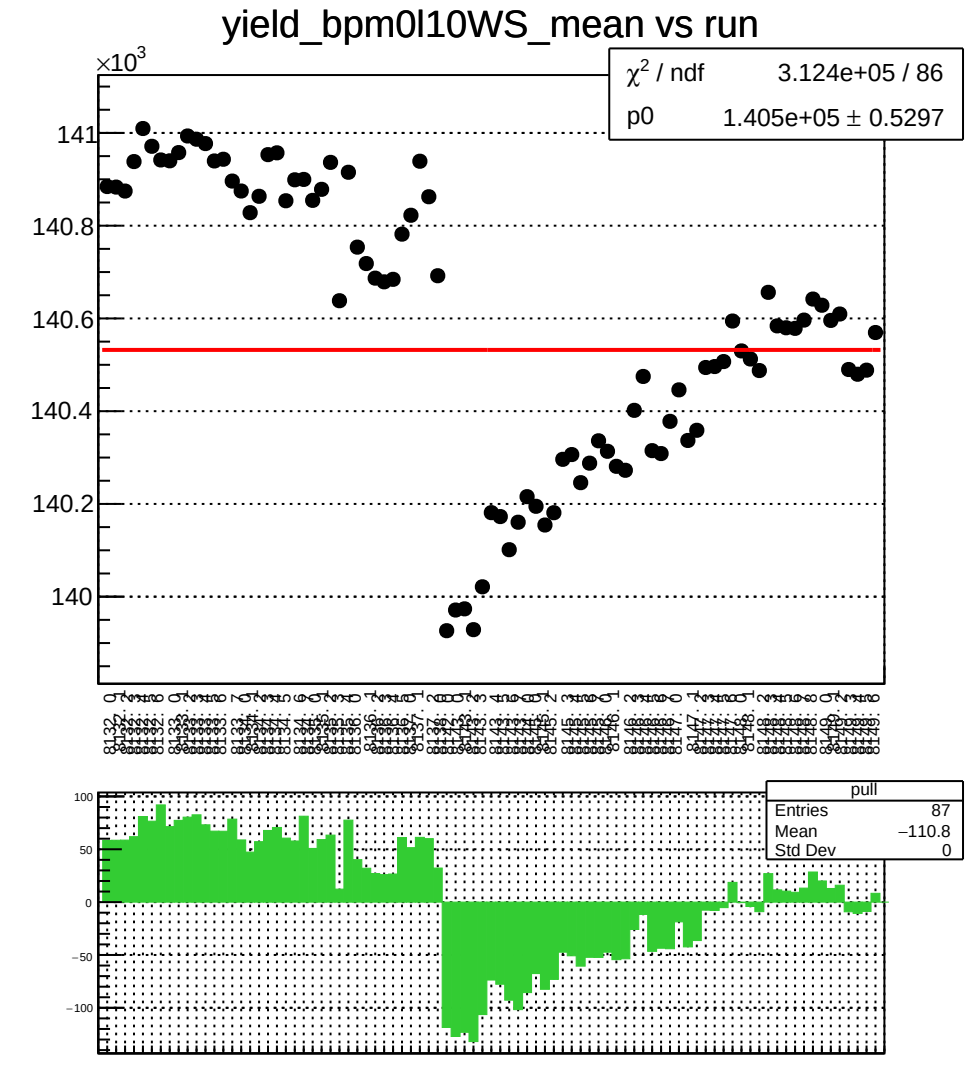

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

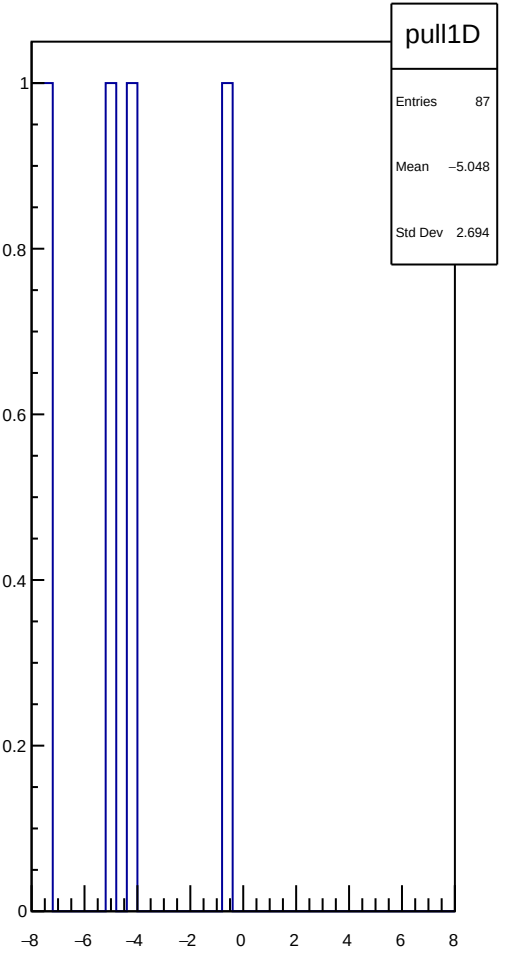

yield_bpm0l08WS_rms vs run
χ² / ndf 2915 / 86
p0 6.815 ± 0.005203
7.6
7.4
7.2
7
6.8
6.6
6.4
6.2
6

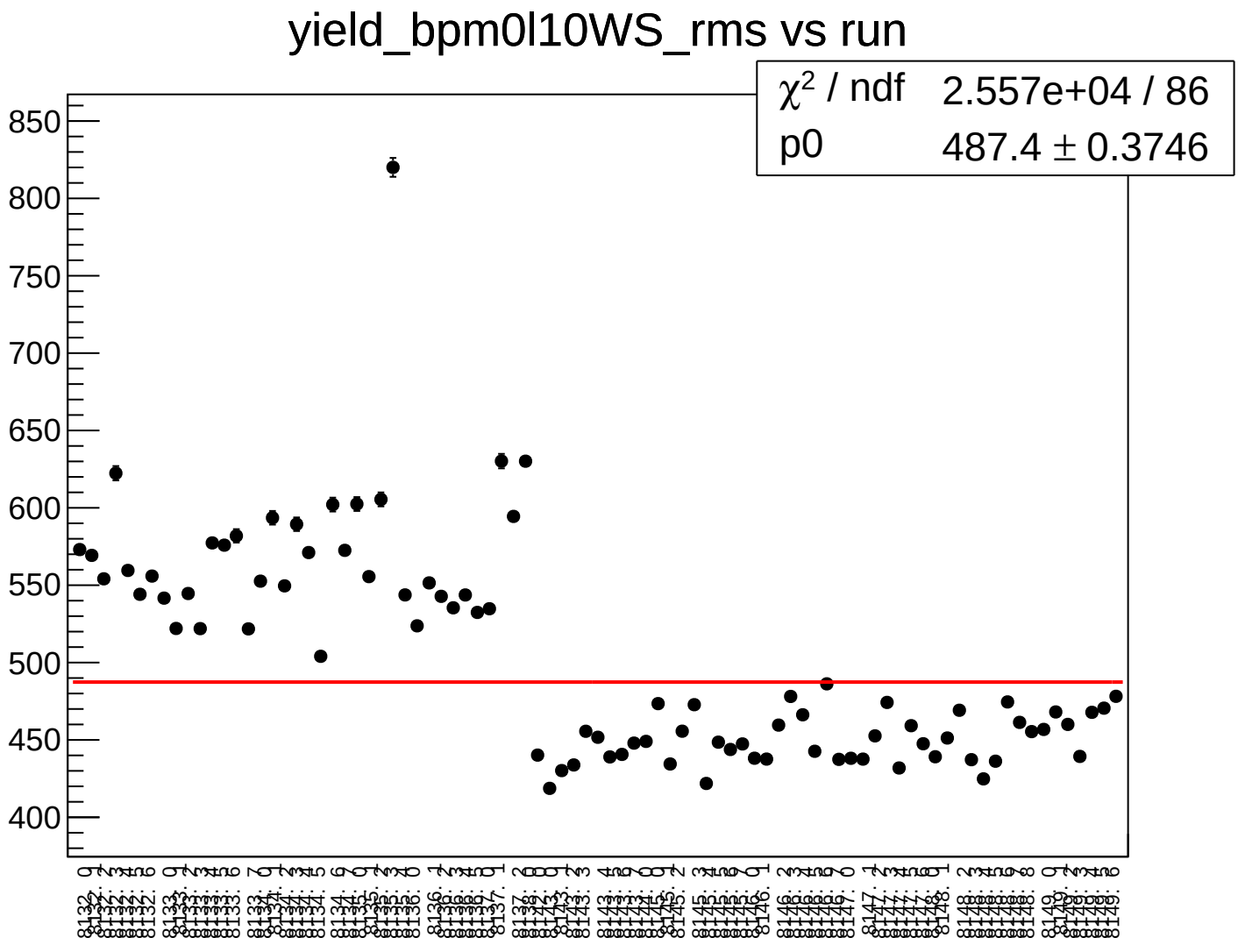

yield_bpm0l09WS_mean vs run
χ² / ndf 7.031e+05 / 86
p0 −2796 ± 0.008036
−2785
−2790
−2795
−2800
−2805
−2810
pull
Entries 87
Mean −5726
Std Dev 0
150
100
50
0
−50
−100
−150
−200

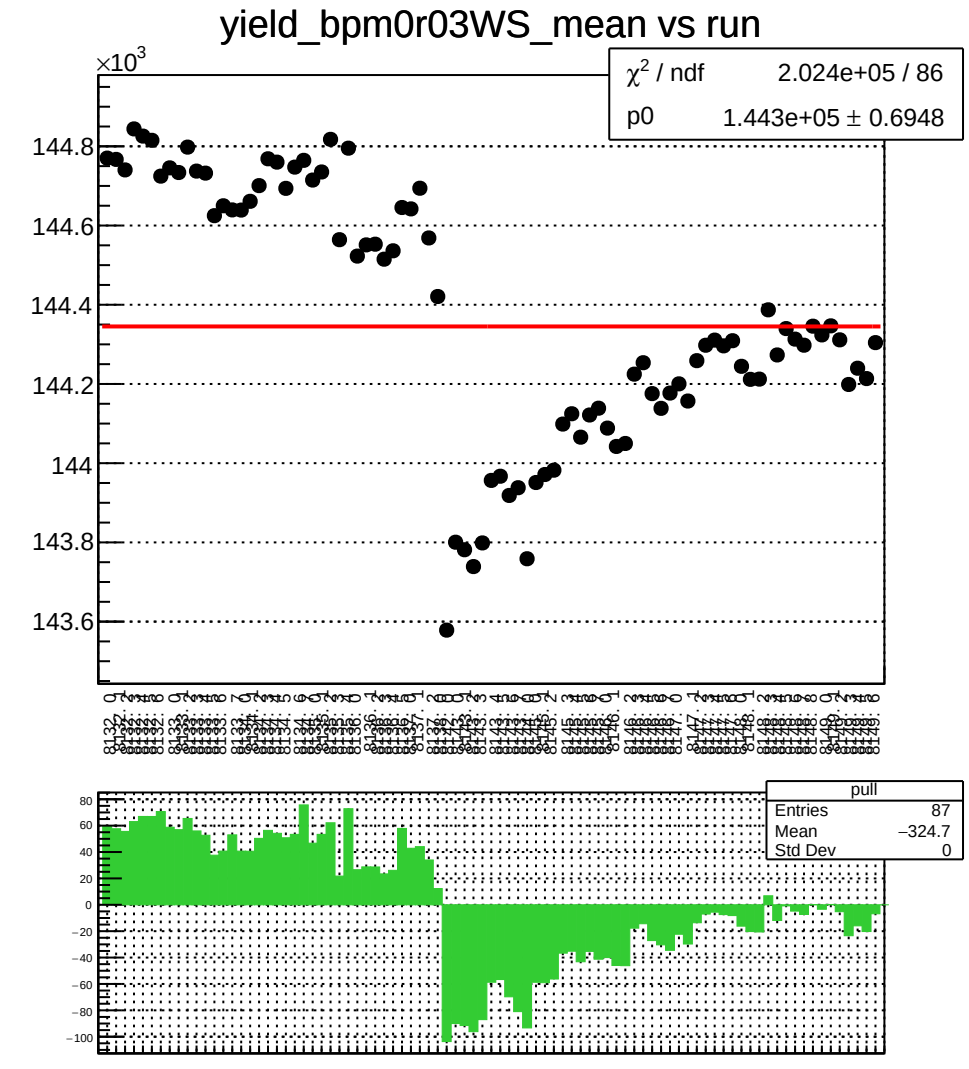

pull1D
Entries 87
Mean 0.8967
Std Dev 4.701
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

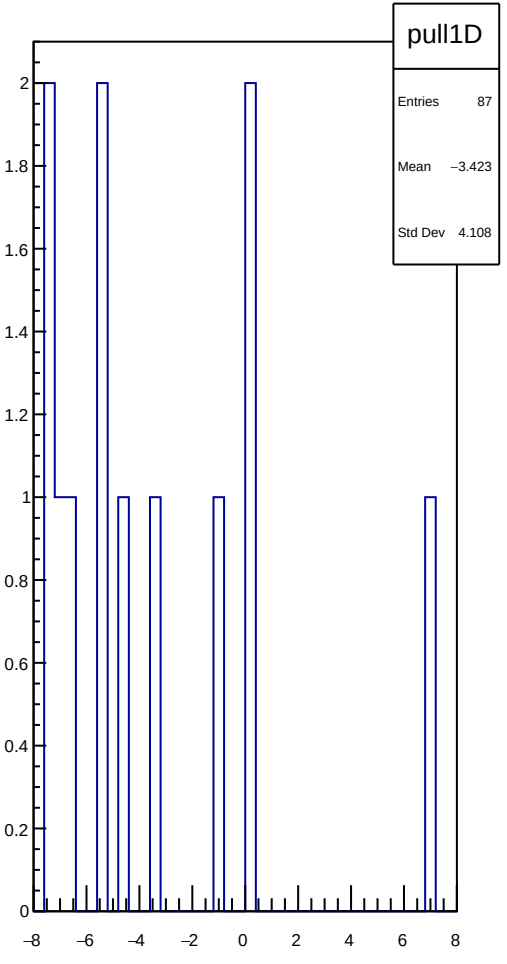

yield_bpm0l09WS_rms vs run
χ² / ndf 2978 / 86
p0 7.443 ± 0.005682
8.5
8
7.5
7
6.5

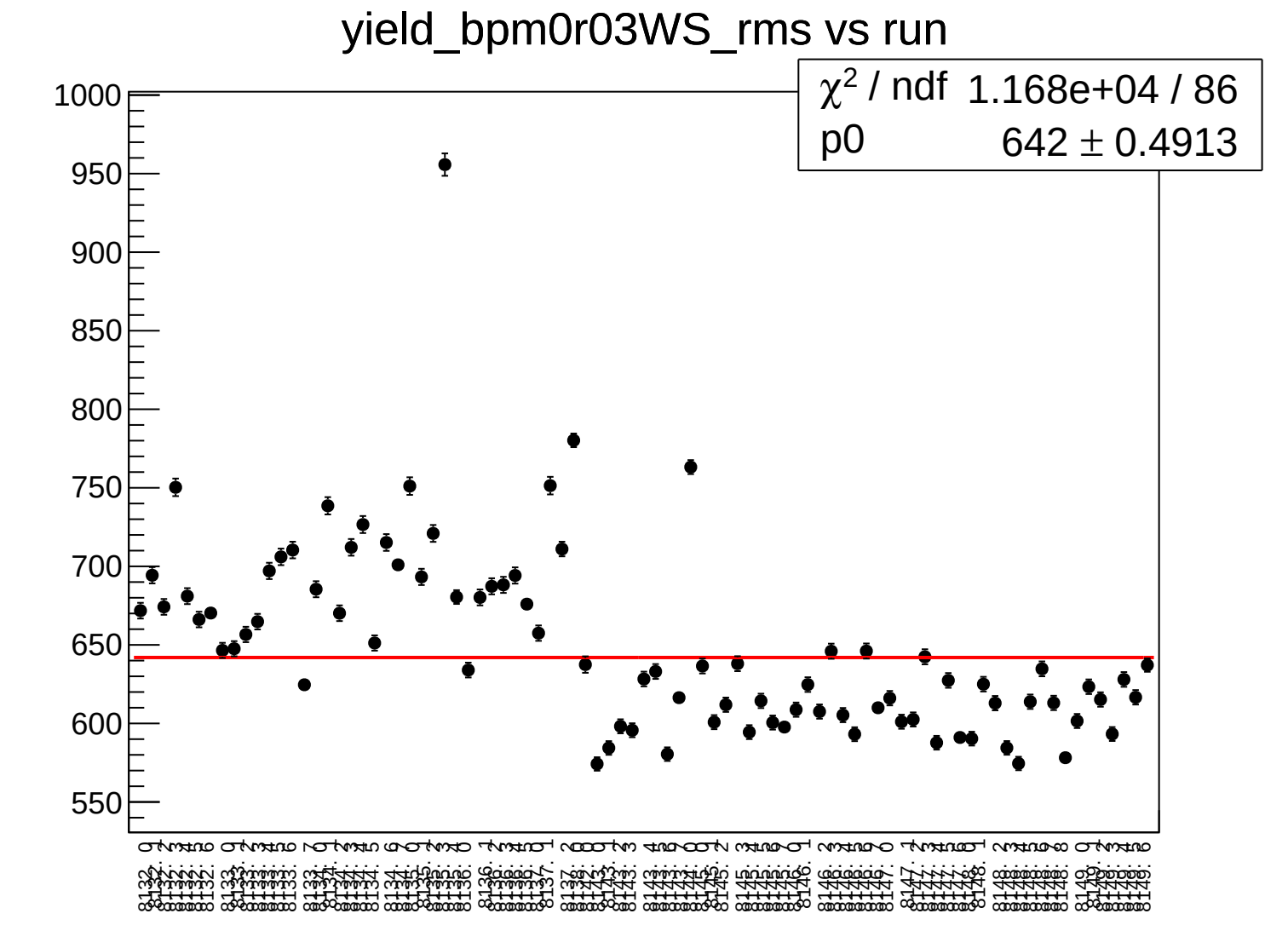

yield_bpm0l10WS_mean vs run
×10^3
χ² / ndf 3.124e+05 / 86
p0 1.405e+05 ± 0.5297
141
140.8
140.6
140.4
140.2
140
pull
Entries 87
Mean −110.8
Std Dev 0
100
50
0
−50
−100

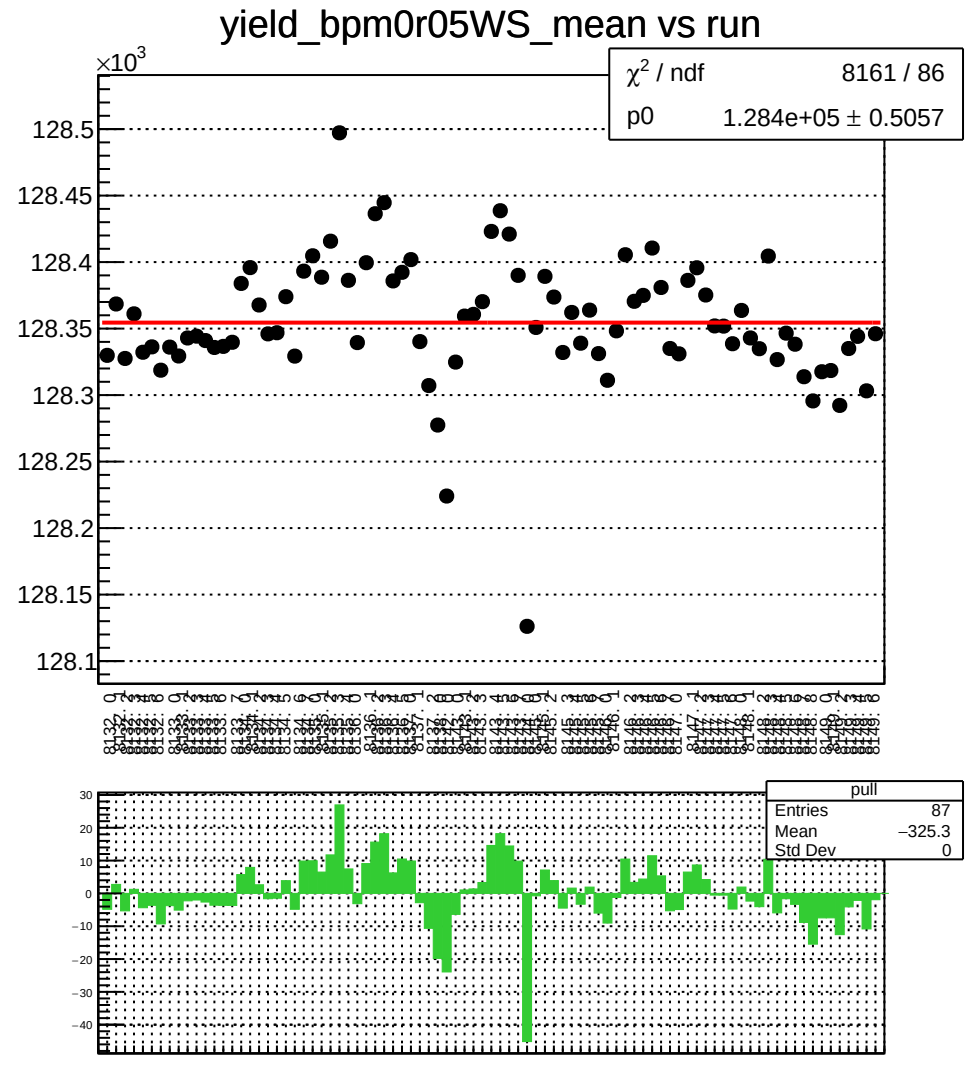

pull1D
Entries 87
Mean −5.048
Std Dev 2.694
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

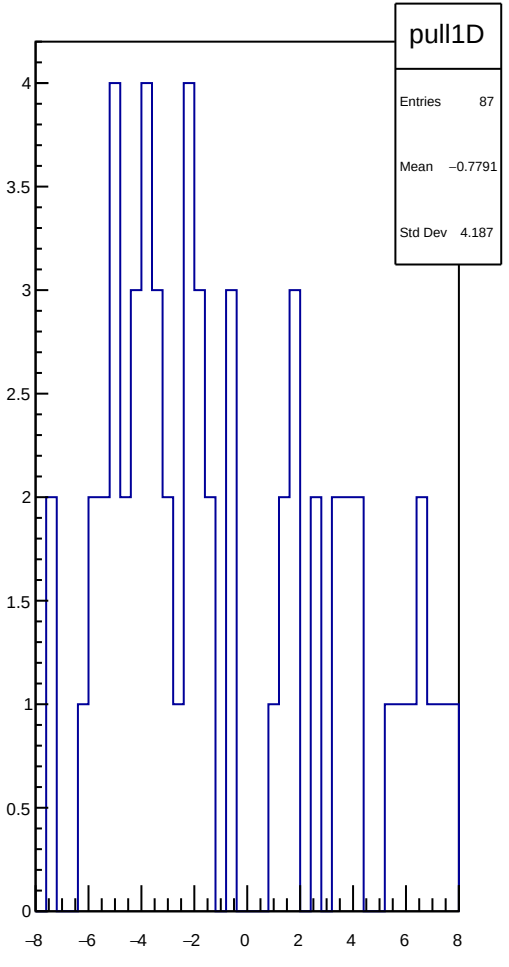

yield_bpm0l10WS_rms vs run
χ² / ndf 2.557e+04 / 86
p0 487.4 ± 0.3746
850
800
750
700
650
600
550
500
450
400

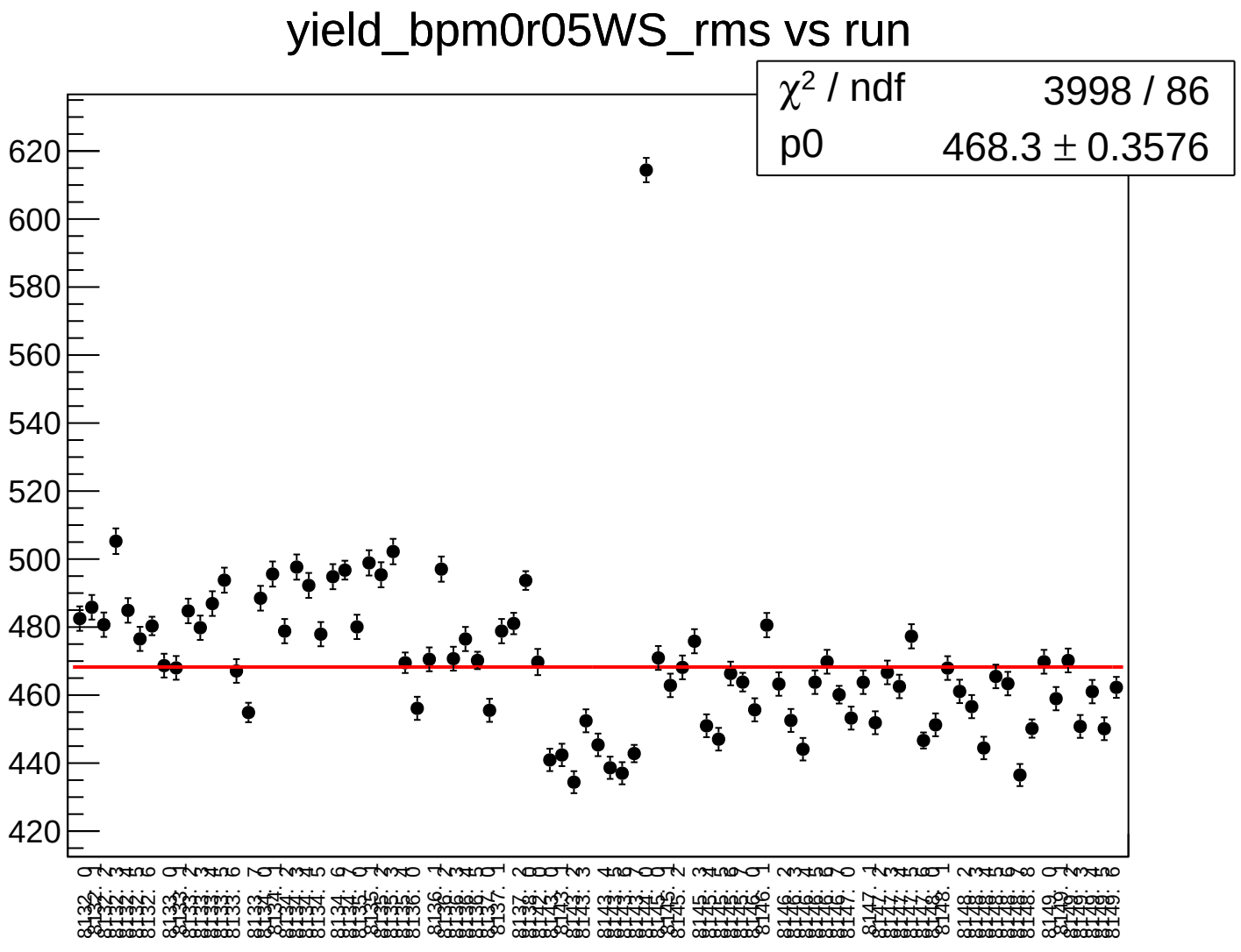

yield_bpm0r03WS_mean vs run
×10^3
χ² / ndf 2.024e+05 / 86
p0 1.443e+05 ± 0.6948
144.8
144.6
144.4
144.2
144
143.8
143.6
pull
Entries 87
Mean −324.7
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100

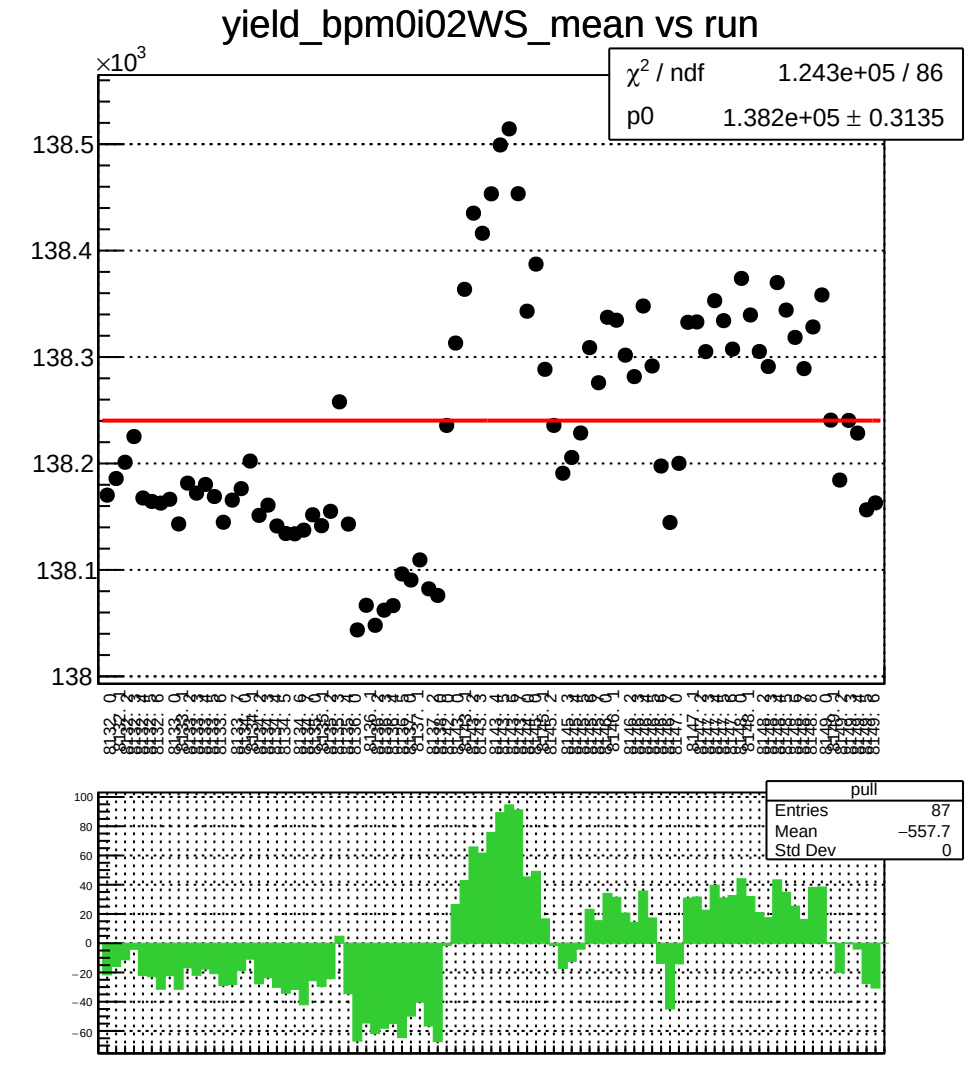

pull1D
Entries 87
Mean −3.423
Std Dev 4.108
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

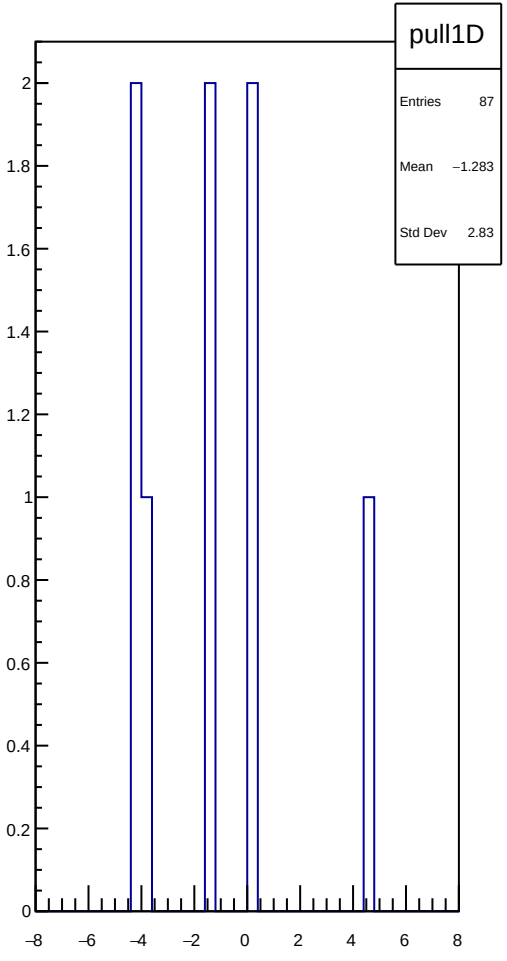

yield_bpm0r03WS_rms vs run
χ² / ndf 1.168e+04 / 86
p0 642 ± 0.4913
1000
950
900
850
800
750
700
650
600
550

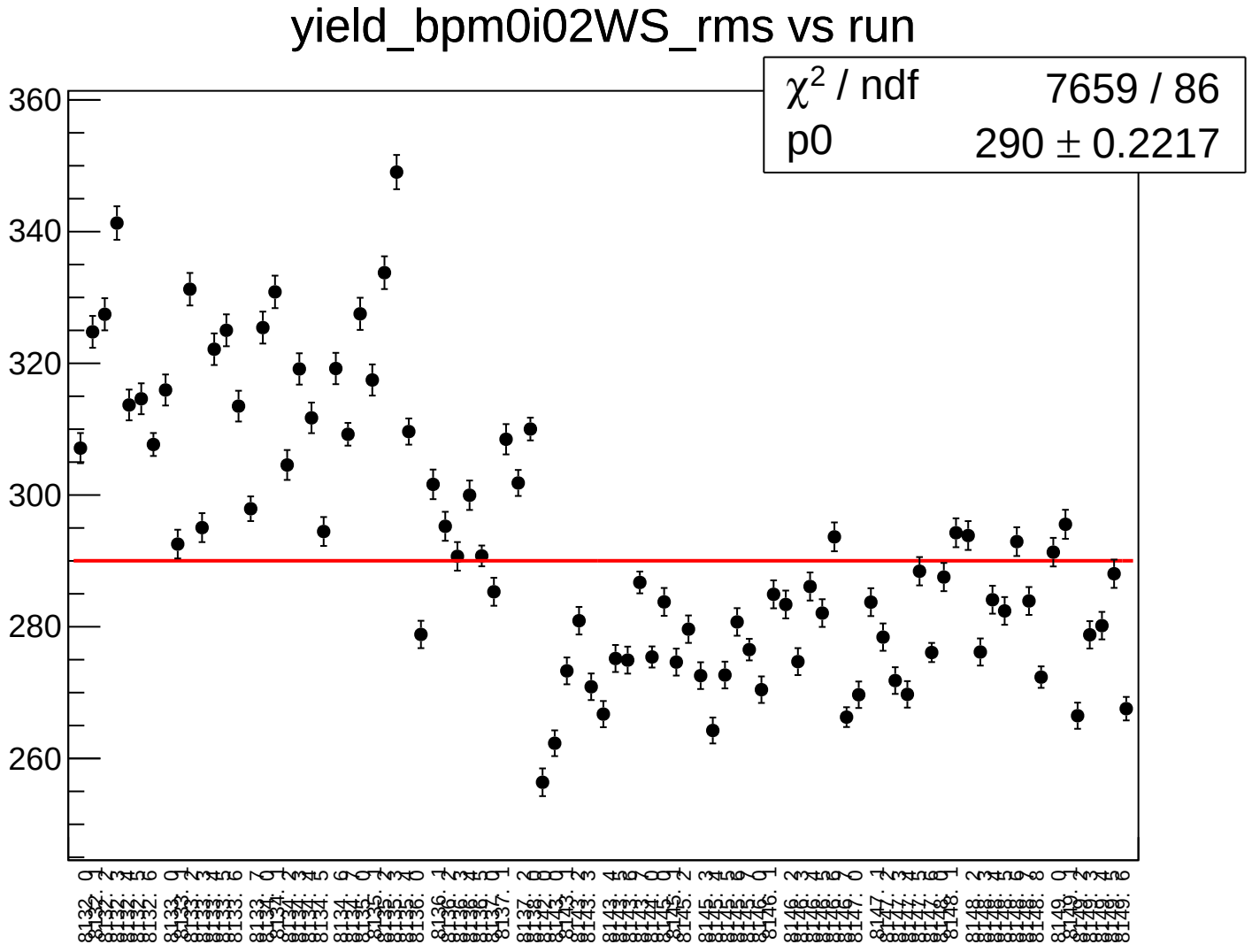

yield_bpm0r05WS_mean vs run
×10^3
χ² / ndf 8161 / 86
p0 1.284e+05 ± 0.5057
128.5
128.45
128.4
128.35
128.3
128.25
128.2
128.15
128.1
pull
Entries 87
Mean −325.3
Std Dev 0
30
20
10
0
−10
−20
−30
−40

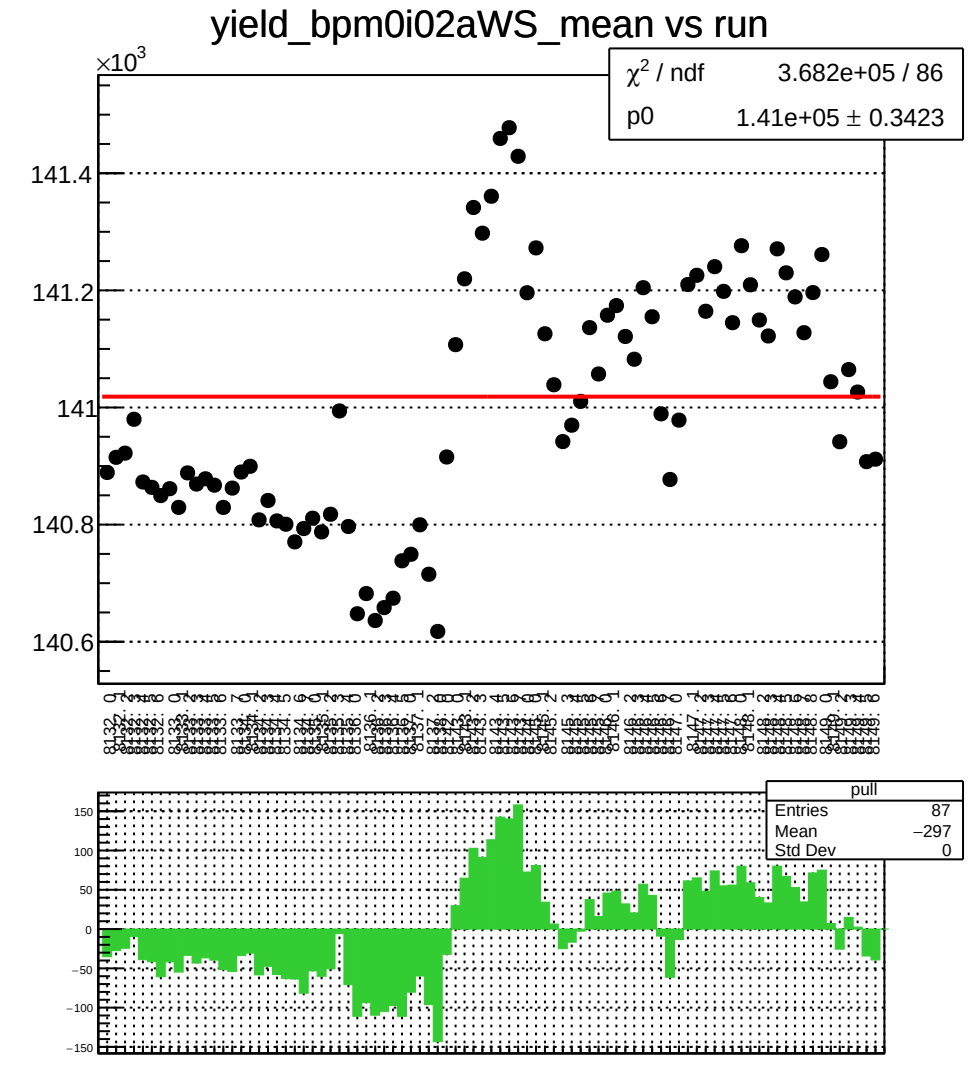

pull1D
Entries 87
Mean −0.7791
Std Dev 4.187
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

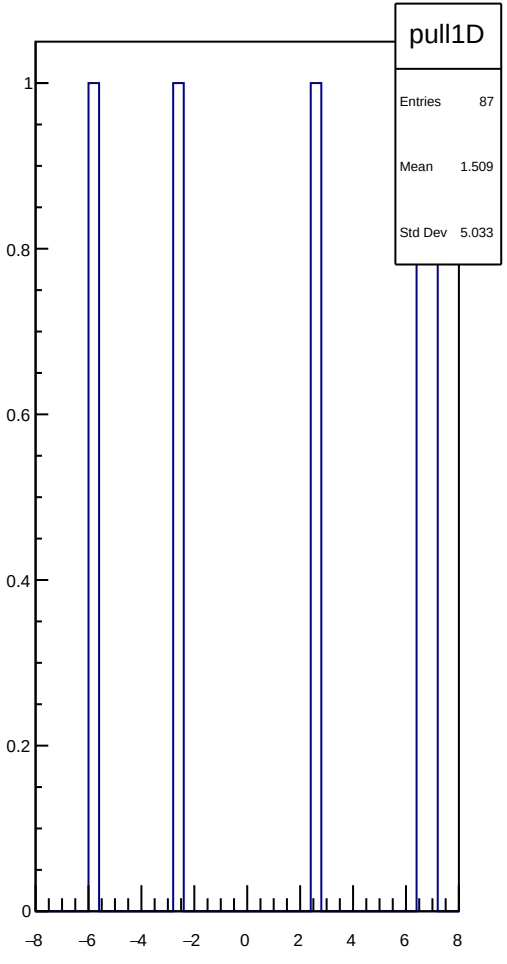

yield_bpm0r05WS_rms vs run
χ² / ndf 3998 / 86
p0 468.3 ± 0.3576
620
600
580
560
540
520
500
480
460
440
420

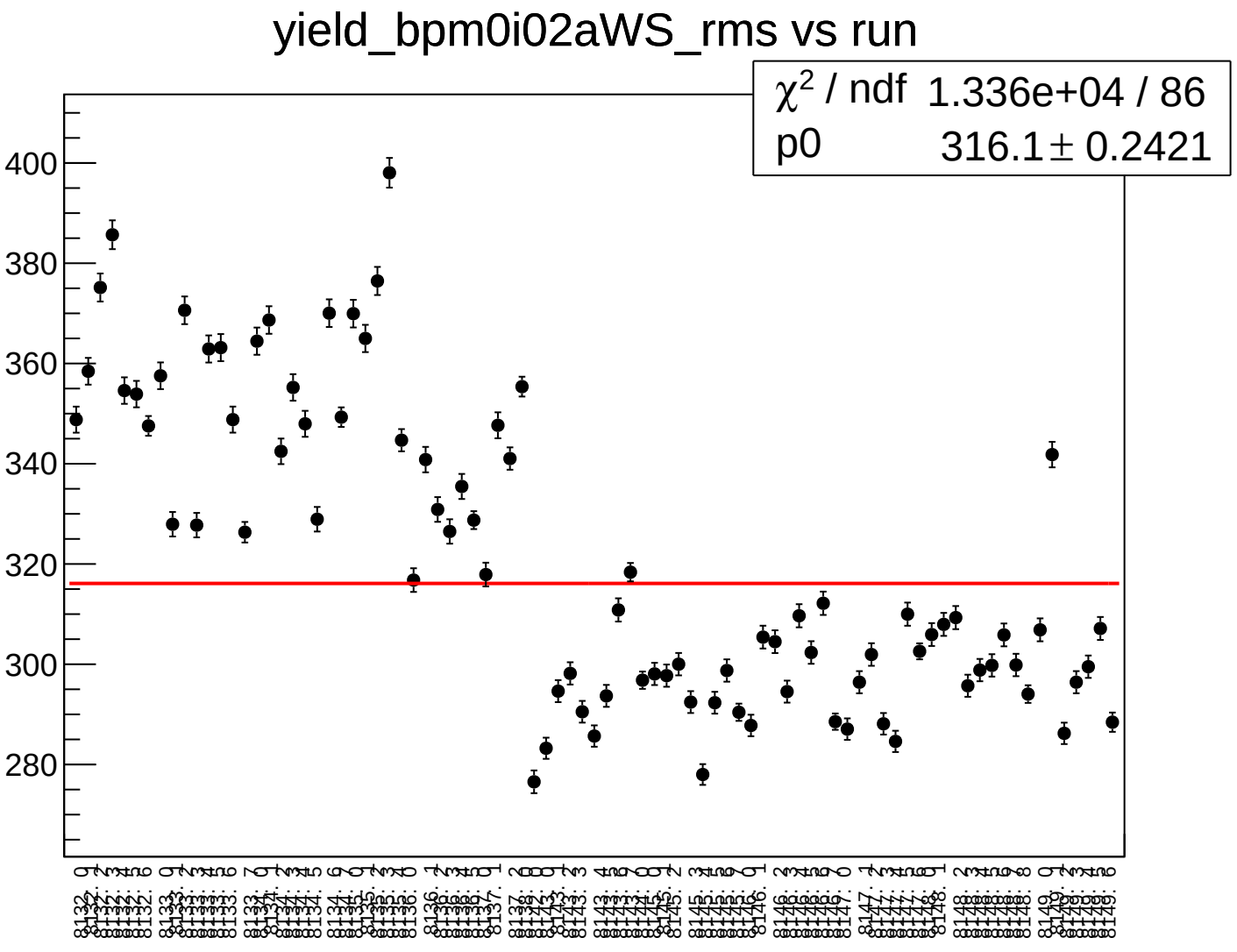

yield_bpm0i02WS_mean vs run
×10^3
χ^2 / ndf 1.243e+05 / 86
p0 1.382e+05 ± 0.3135
138.5
138.4
138.3
138.2
138.1
138
pull
Entries 87
Mean −557.7
Std Dev 0
100
80
60
40
20
0
−20
−40
−60

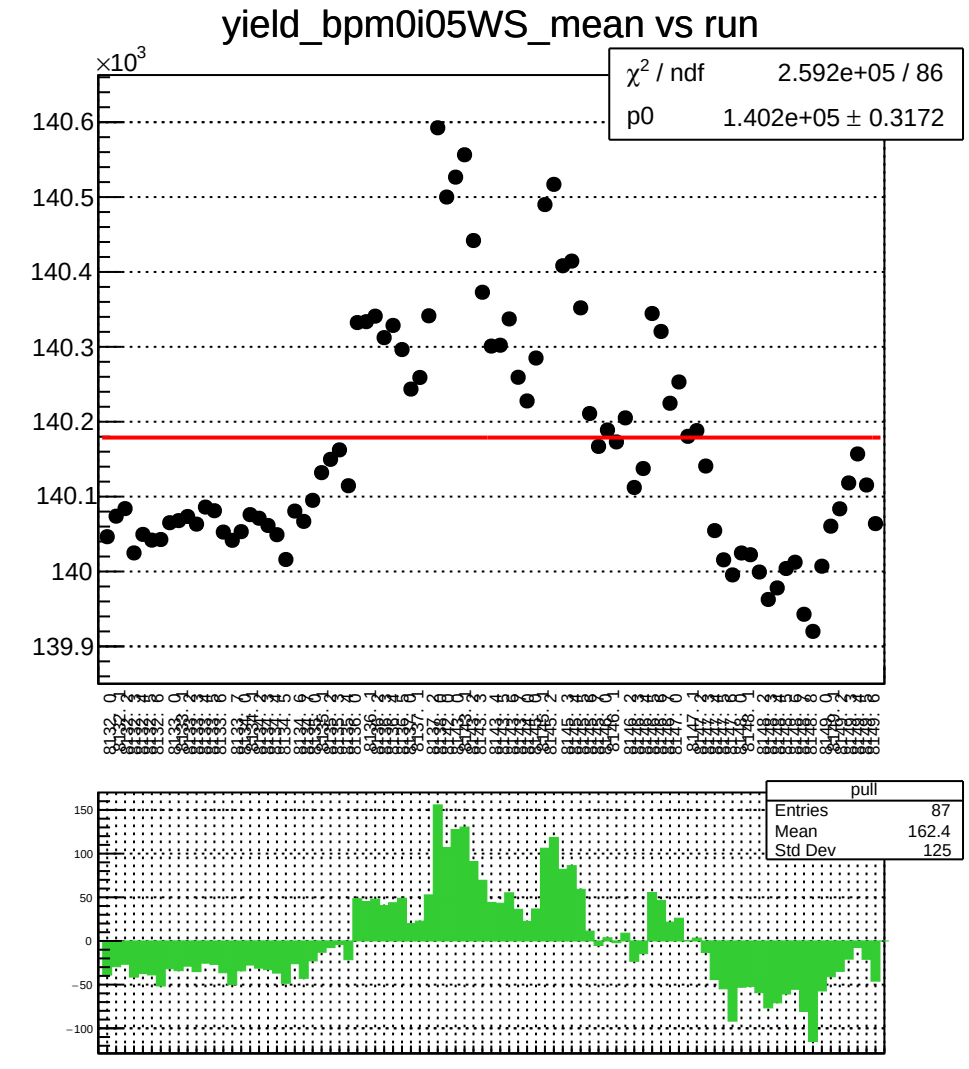

pull1D
Entries 87
Mean −1.283
Std Dev 2.83
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

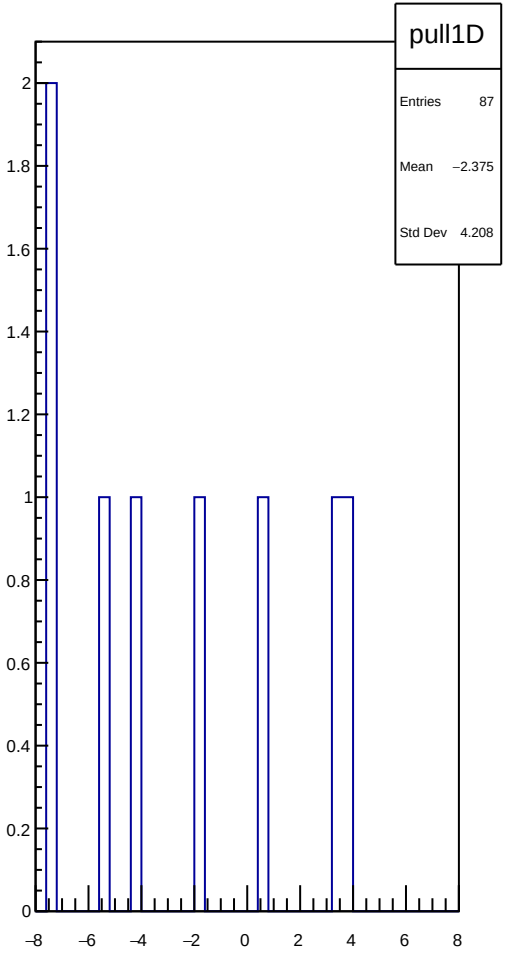

yield_bpm0i02WS_rms vs run
χ² / ndf 7659 / 86
p0 290 ± 0.2217
360
340
320
300
280
260

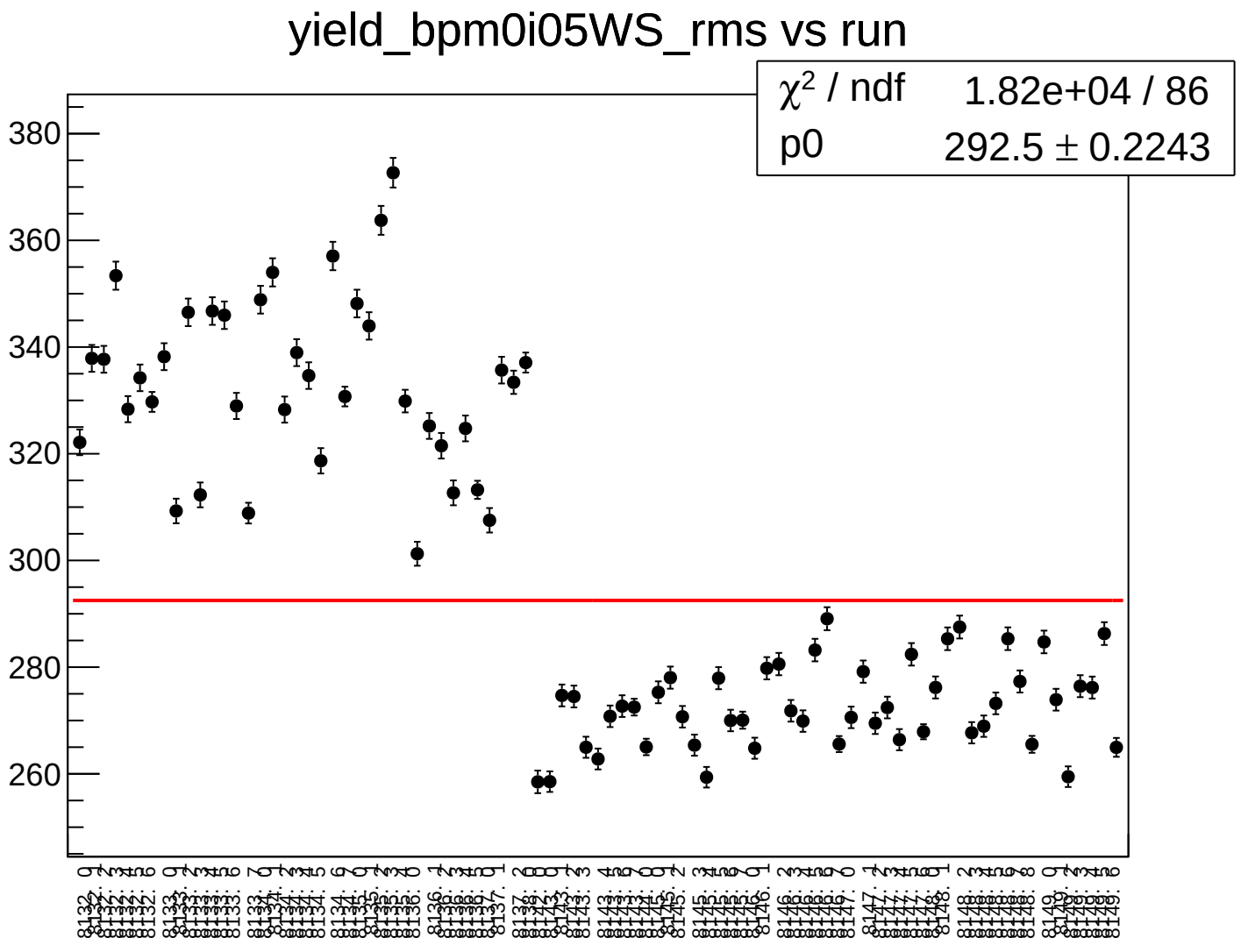

yield_bpm0i02aWS_mean vs run
×10^3
χ² / ndf 3.682e+05 / 86
p0 1.41e+05 ± 0.3423
141.4
141.2
141
140.8
140.6
pull
Entries 87
Mean −297
Std Dev 0
150
100
50
0
−50
−100
−150

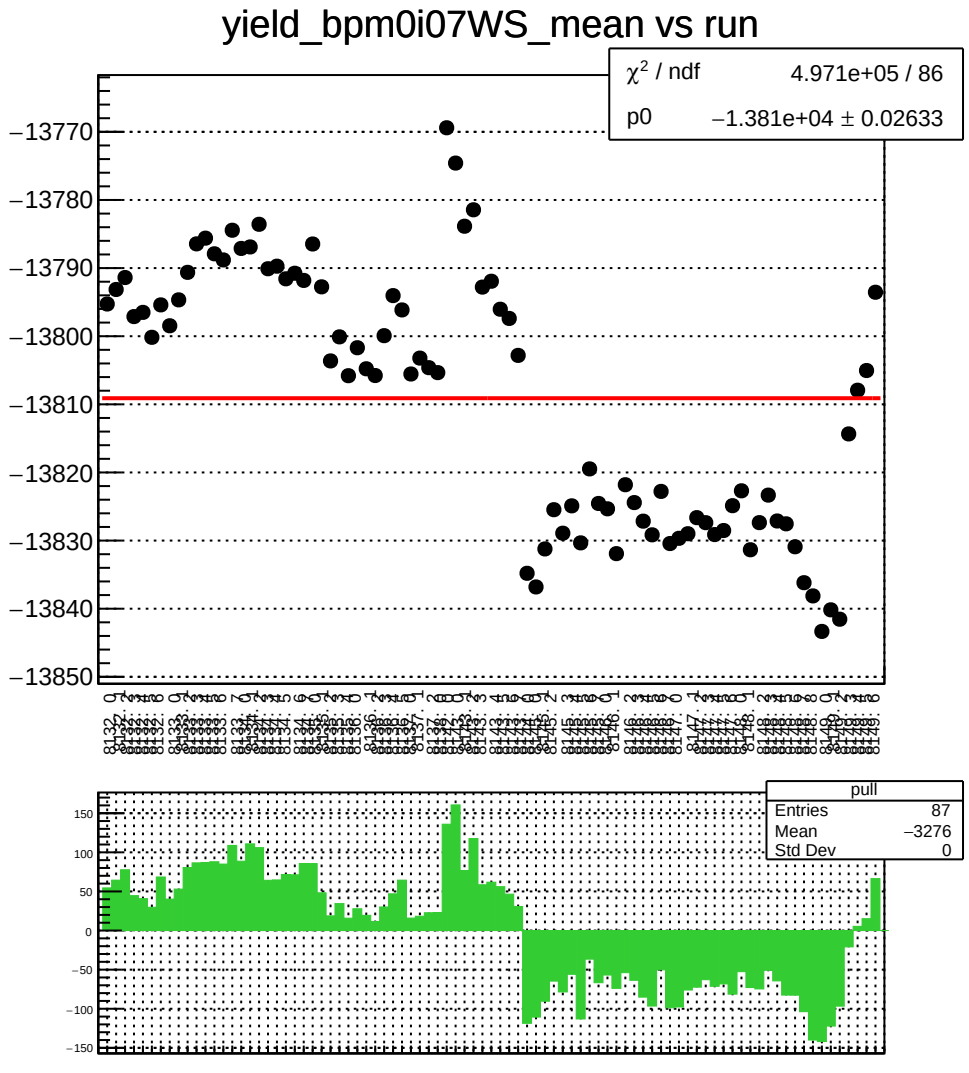

pull1D
Entries 87
Mean 1.509
Std Dev 5.033
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

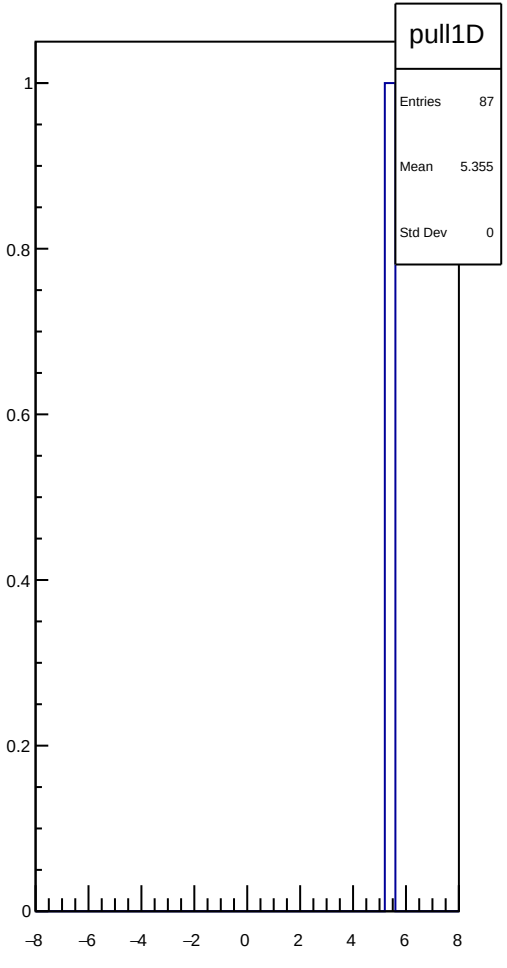

yield_bpm0i02aWS_rms vs run
χ² / ndf 1.336e+04 / 86
p0 316.1 ± 0.2421
400
380
360
340
320
300
280

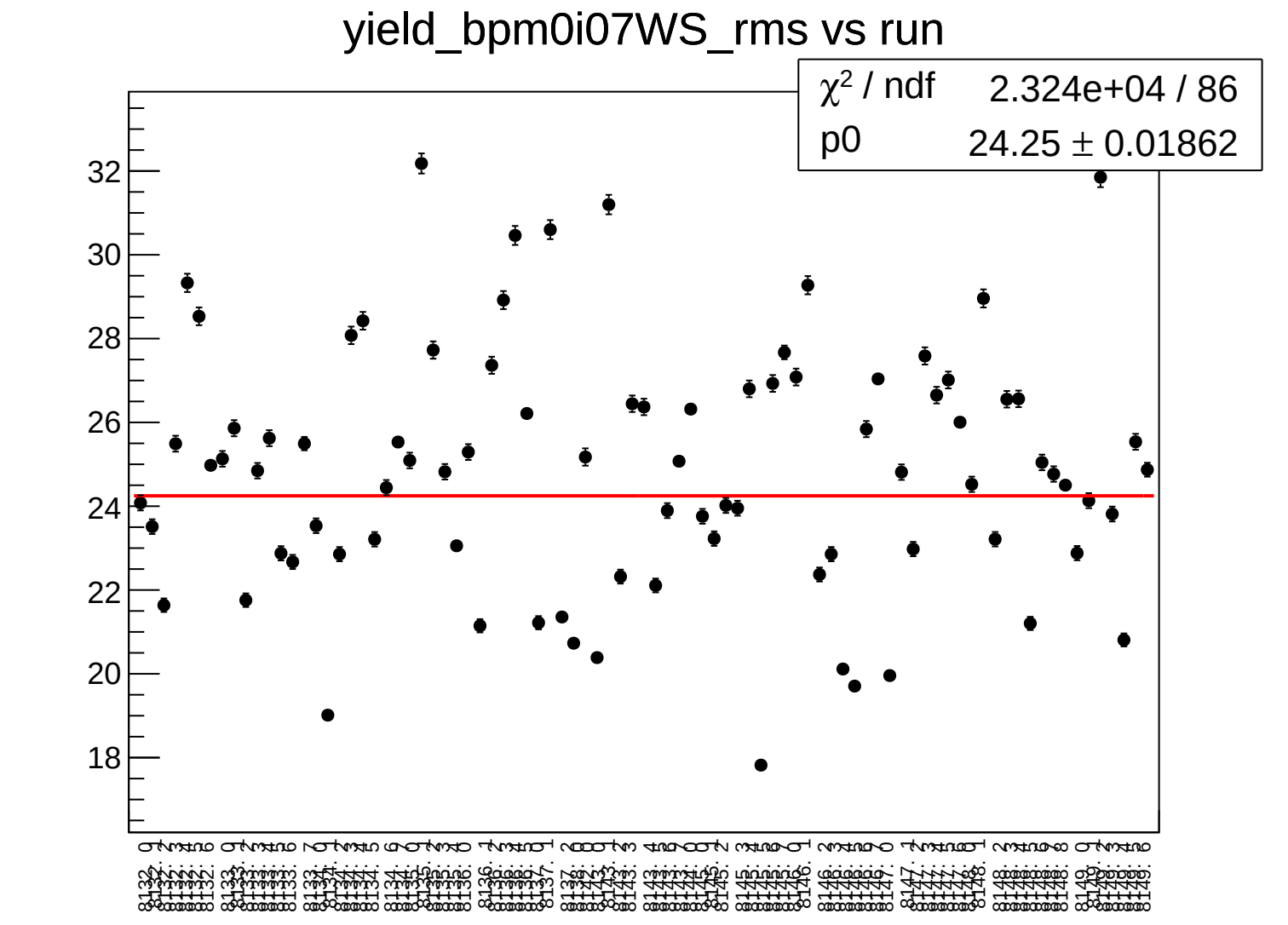

yield_bpm0i05WS_mean vs run
×10^3
χ² / ndf 2.592e+05 / 86
p0 1.402e+05 ± 0.3172
140.6
140.5
140.4
140.3
140.2
140.1
140
139.9
pull
Entries 87
Mean 162.4
Std Dev 125
150
100
50
0
−50
−100

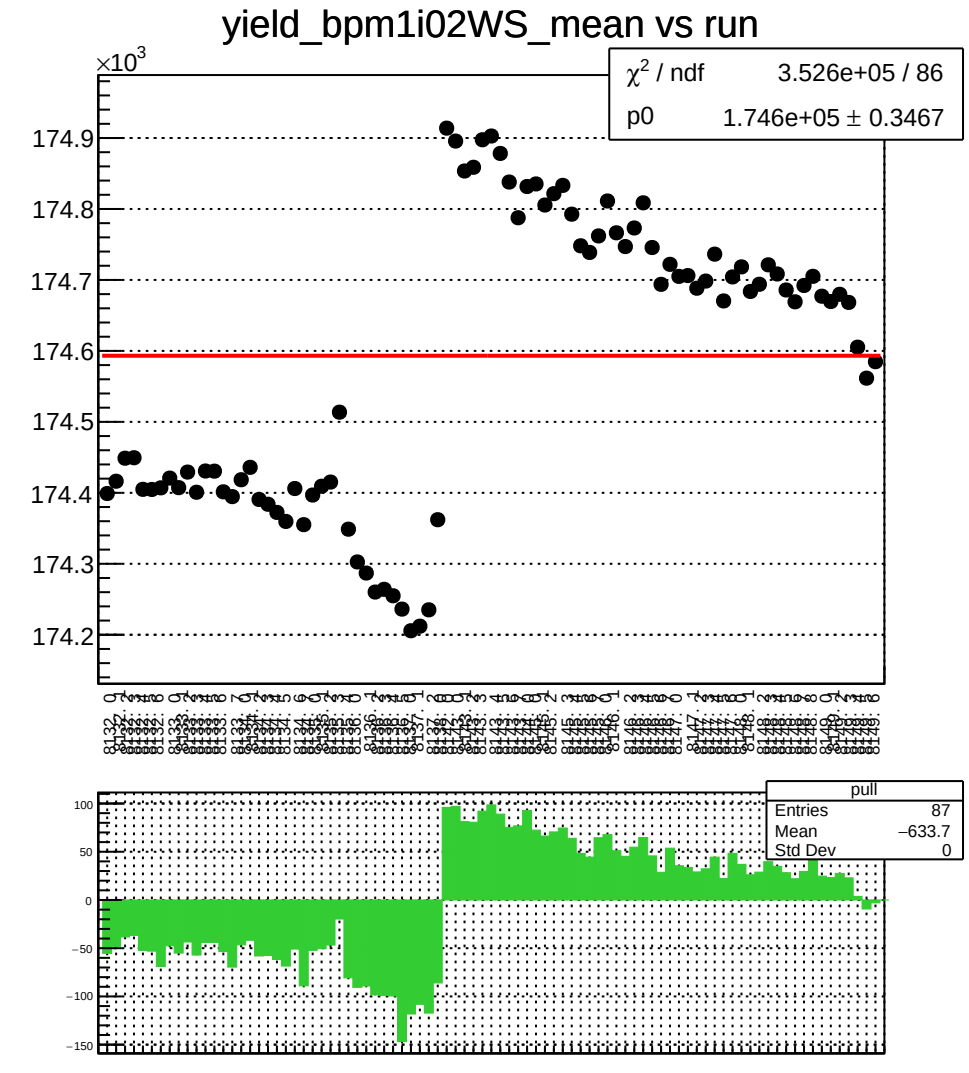

pull1D
Entries 87
Mean −2.375
Std Dev 4.208
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

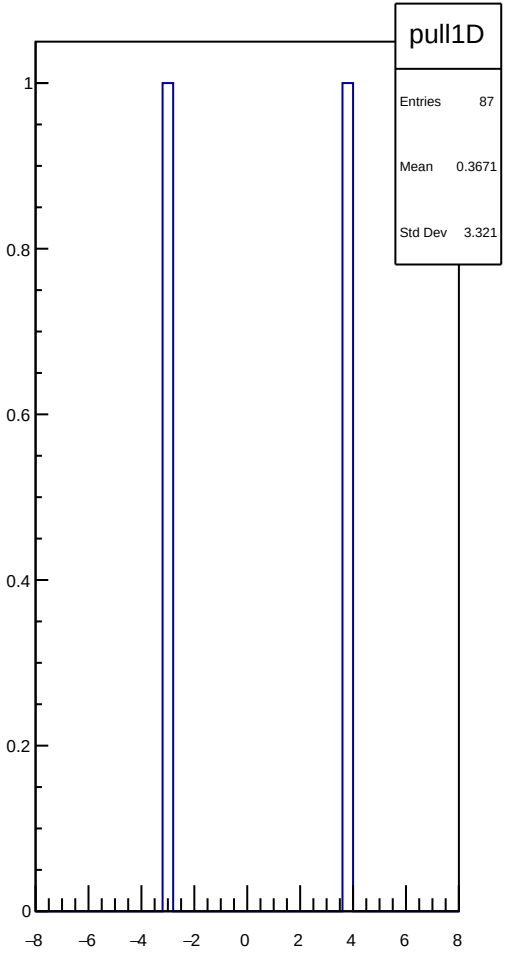

yield_bpm0i05WS_rms vs run
χ² / ndf 1.82e+04 / 86
p0 292.5 ± 0.2243
380
360
340
320
300
280
260

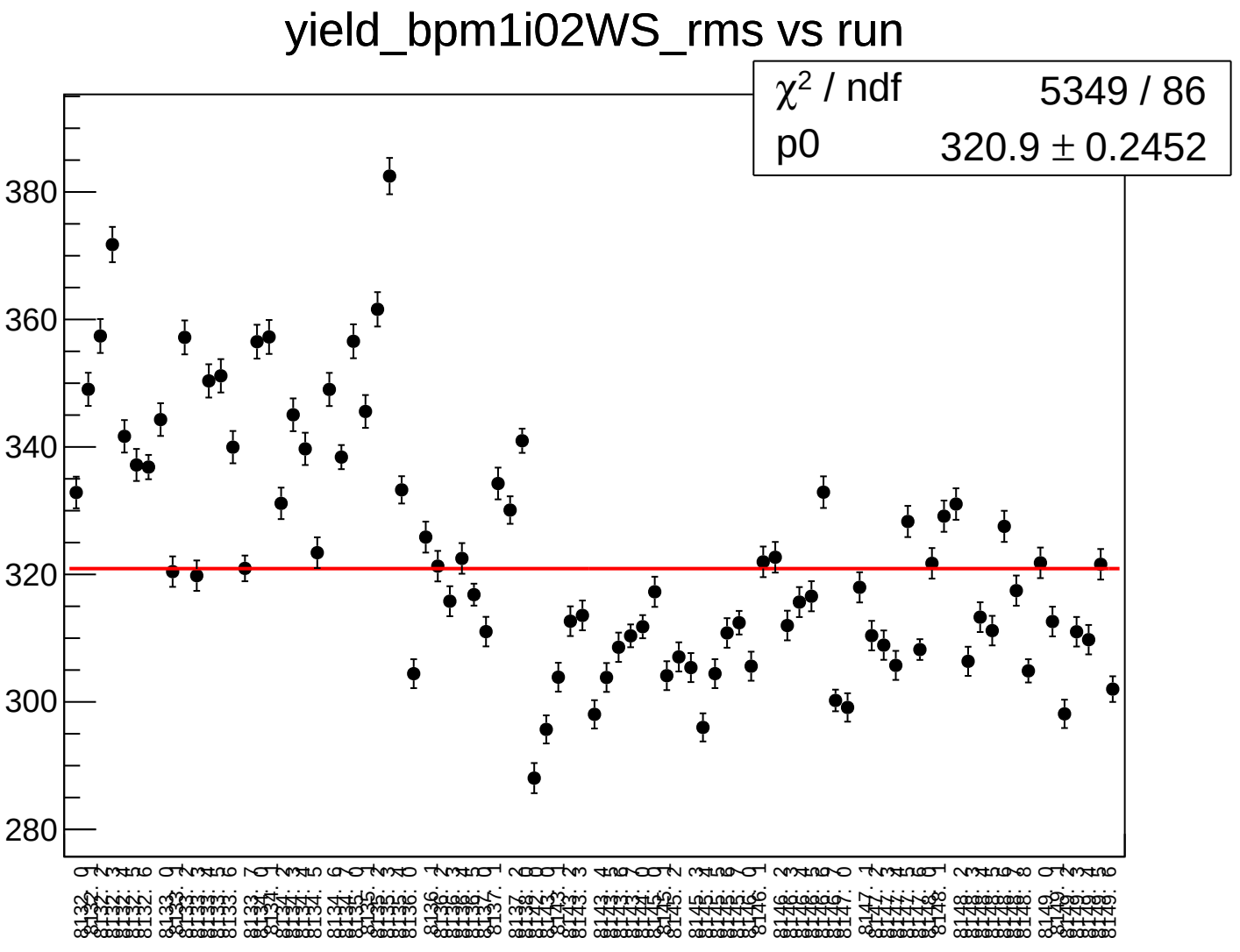

yield_bpm0i07WS_mean vs run
χ² / ndf 4.971e+05 / 86
p0 −1.381e+04 ± 0.02633
−13770
−13780
−13790
−13800
−13810
−13820
−13830
−13840
−13850
pull
Entries 87
Mean −3276
Std Dev 0
150
100
50
0
−50
−100
−150

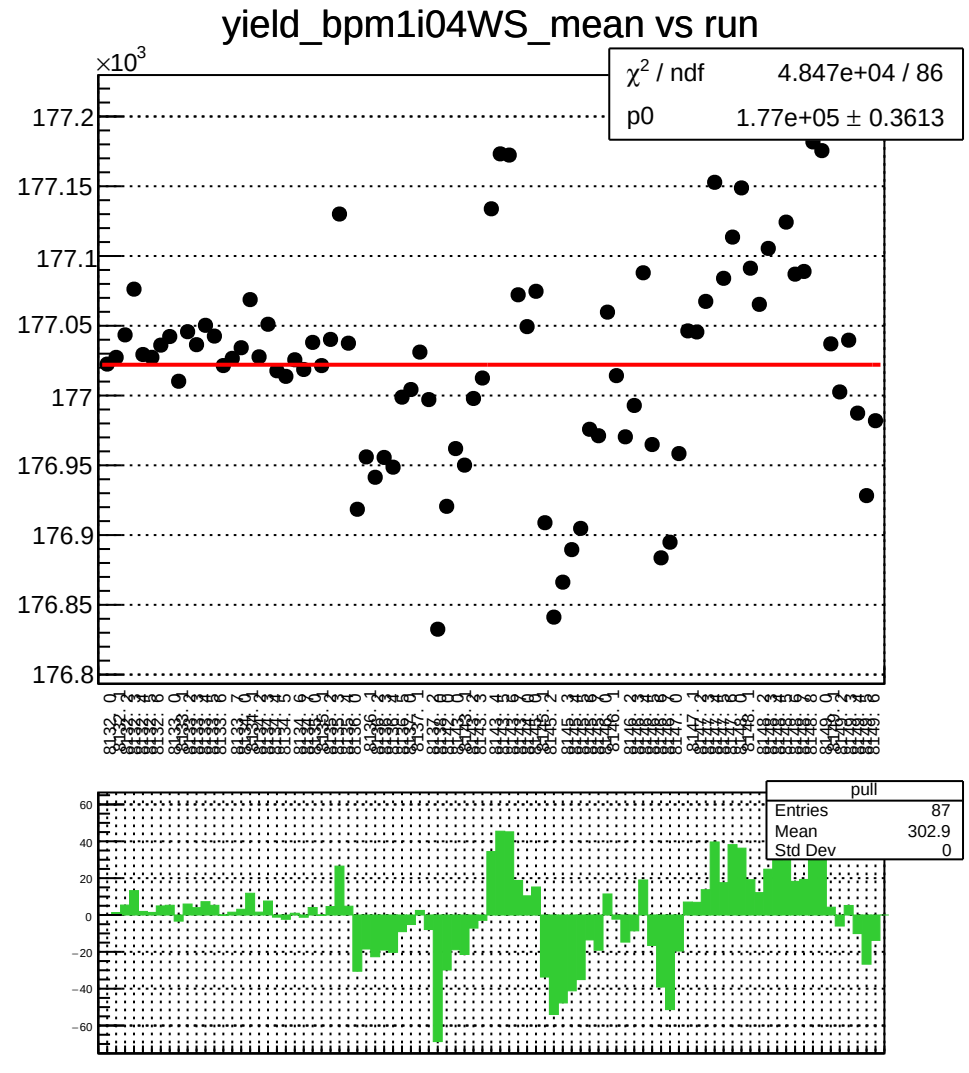

pull1D
Entries 87
Mean 5.355
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

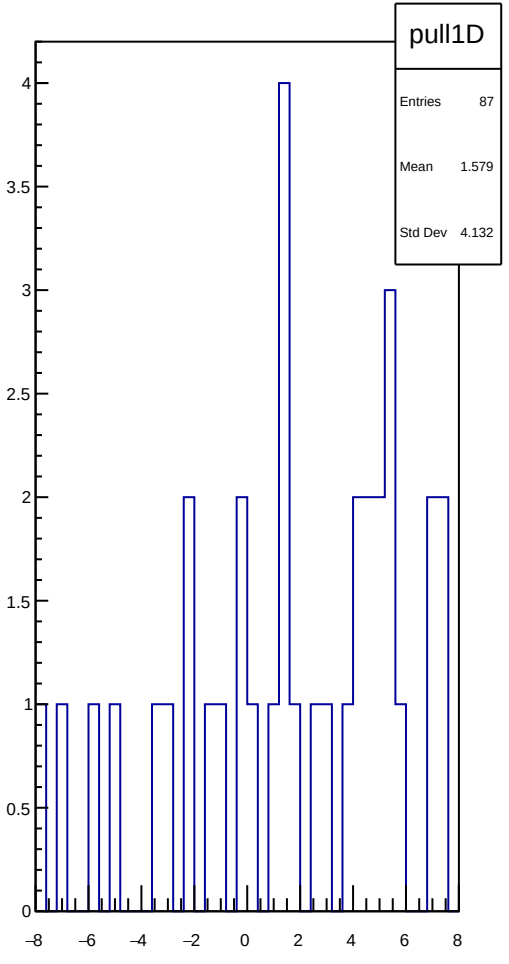

yield_bpm0i07WS_rms vs run
χ² / ndf 2.324e+04 / 86
p0 24.25 ± 0.01862
32
30
28
26
24
22
20
18

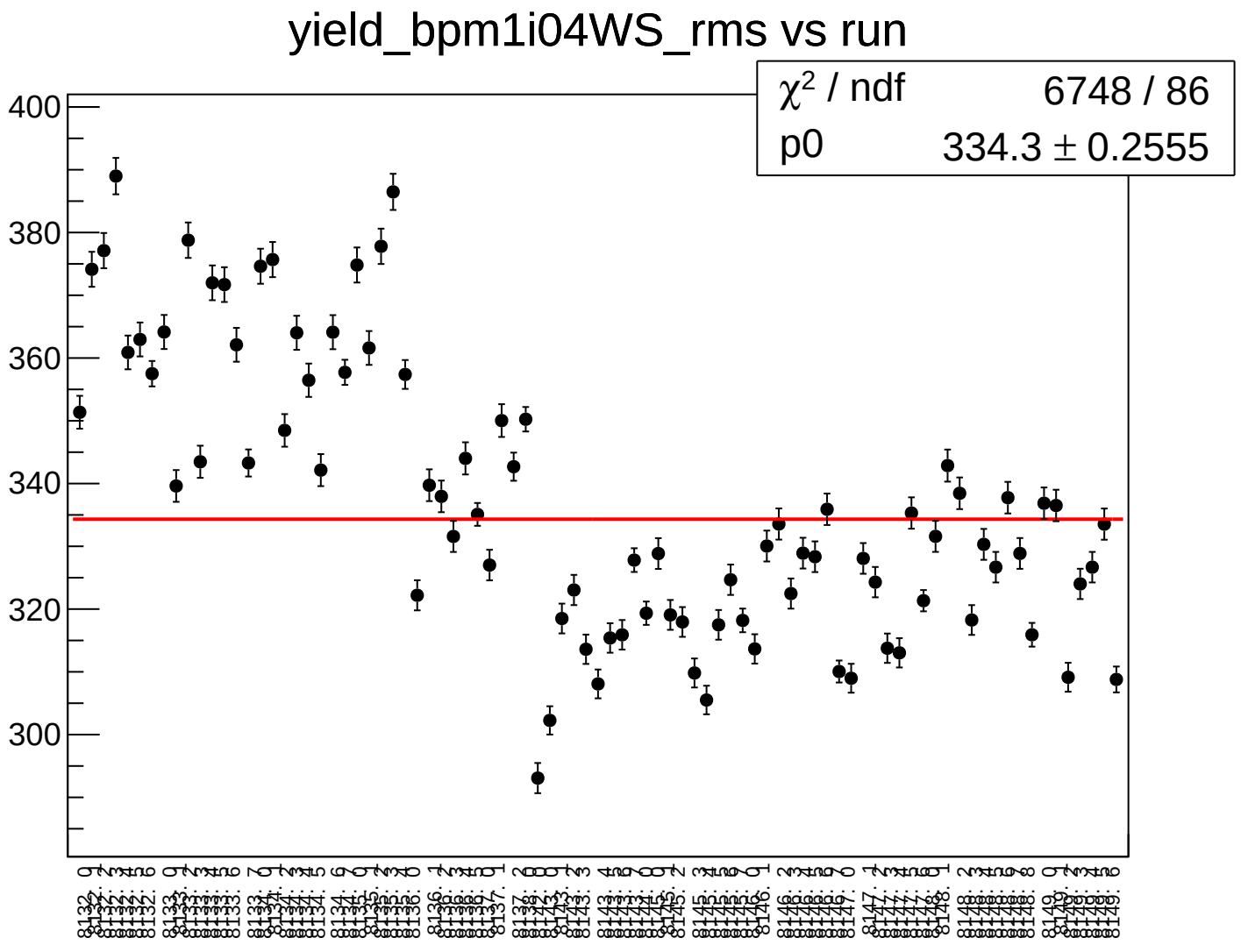

yield_bpm1i02WS_mean vs run
×10^3
χ^2 / ndf 3.526e+05 / 86
p0 1.746e+05 ± 0.3467
174.9
174.8
174.7
174.6
174.5
174.4
174.3
174.2
pull
Entries 87
Mean −633.7
Std Dev 0
100
50
0
−50
−100
−150

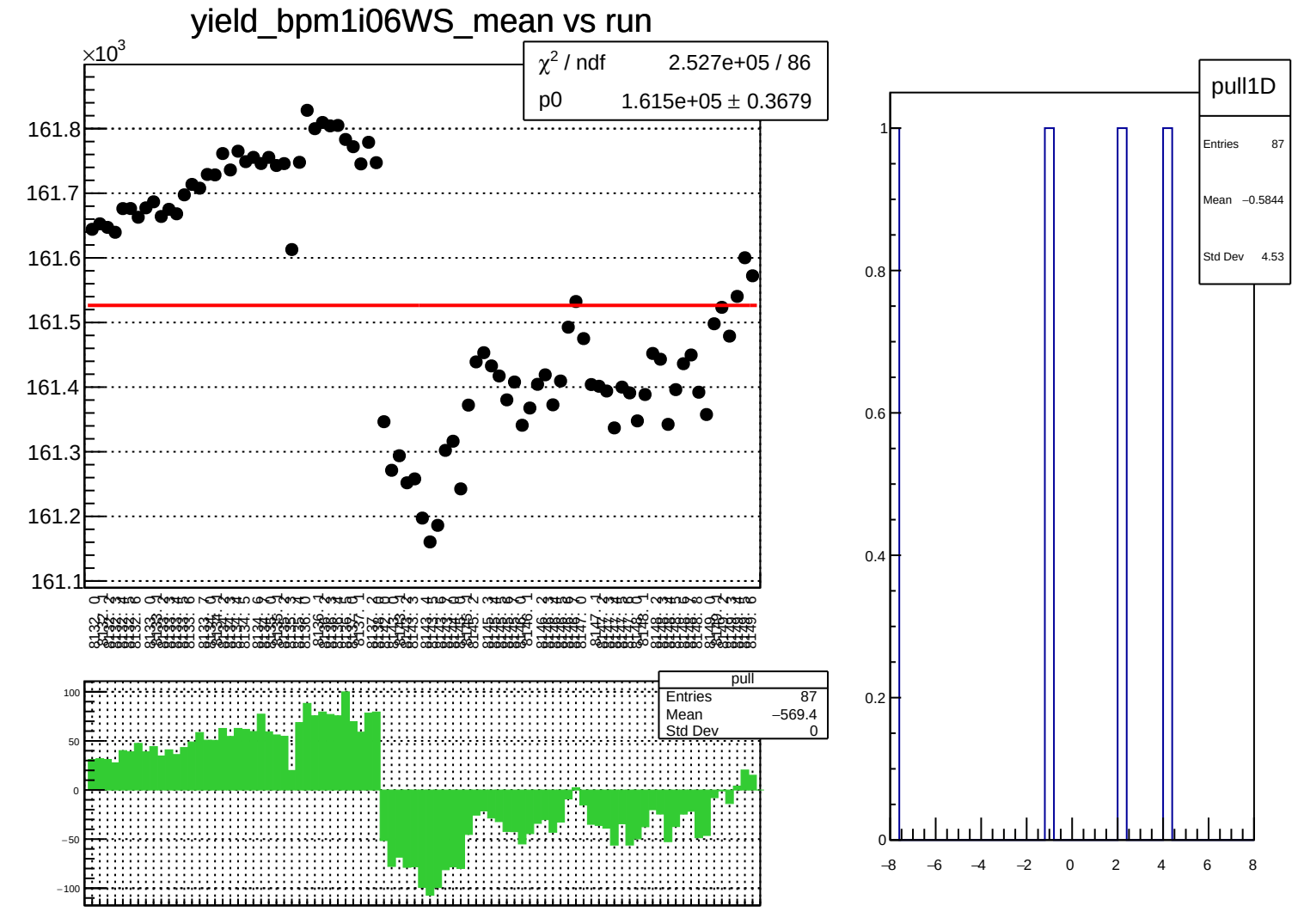

pull1D
Entries 87
Mean 0.3671
Std Dev 3.321
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

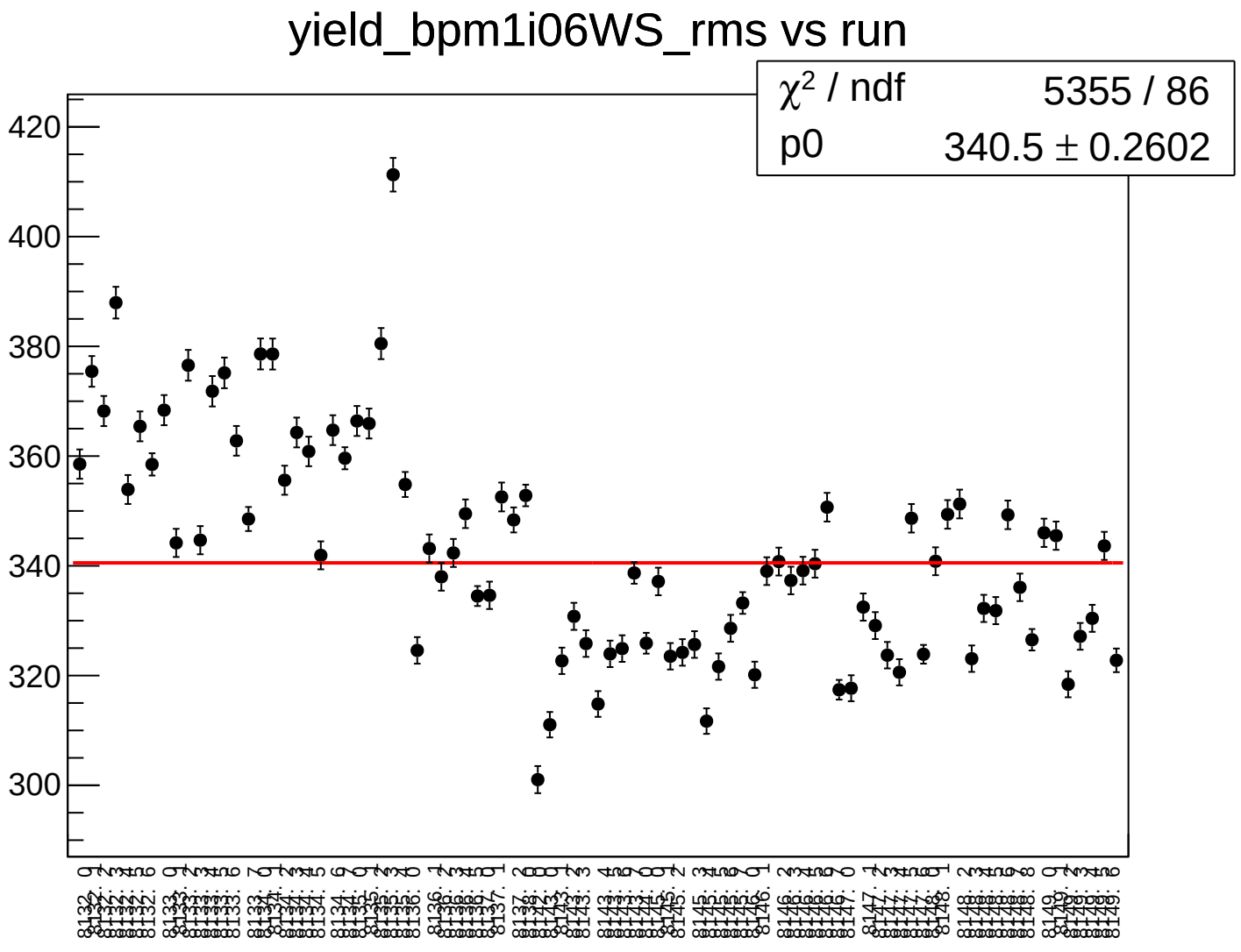

yield_bpm1i02WS_rms vs run
χ² / ndf 5349 / 86
p0 320.9 ± 0.2452
380
360
340
320
300
280

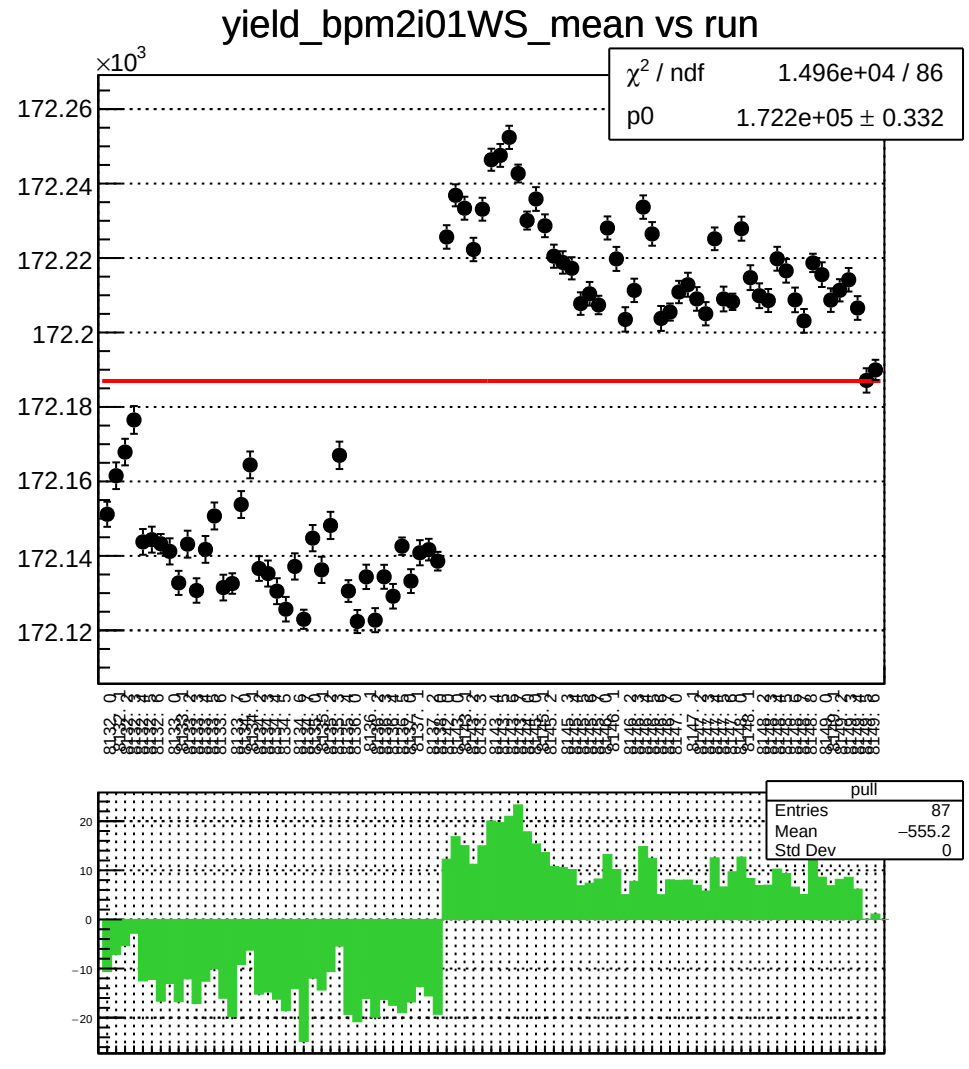

yield_bpm1i04WS_mean vs run
×10^3
χ^2 / ndf 4.847e+04 / 86
p0 1.77e+05 ± 0.3613
177.2
177.15
177.1
177.05
177
176.95
176.9
176.85
176.8
pull
Entries 87
Mean 302.9
Std Dev 0
60
40
20
0
−20
−40
−60

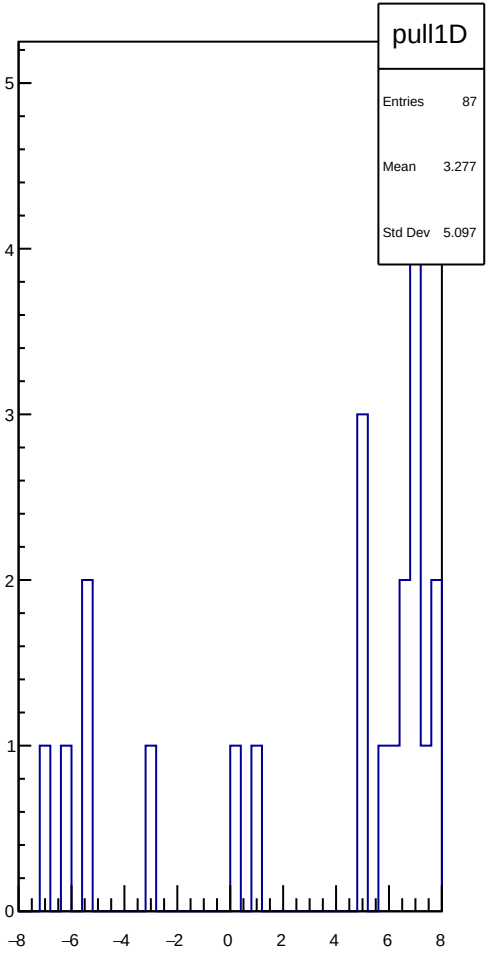

pull1D
Entries 87
Mean 1.579
Std Dev 4.132
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

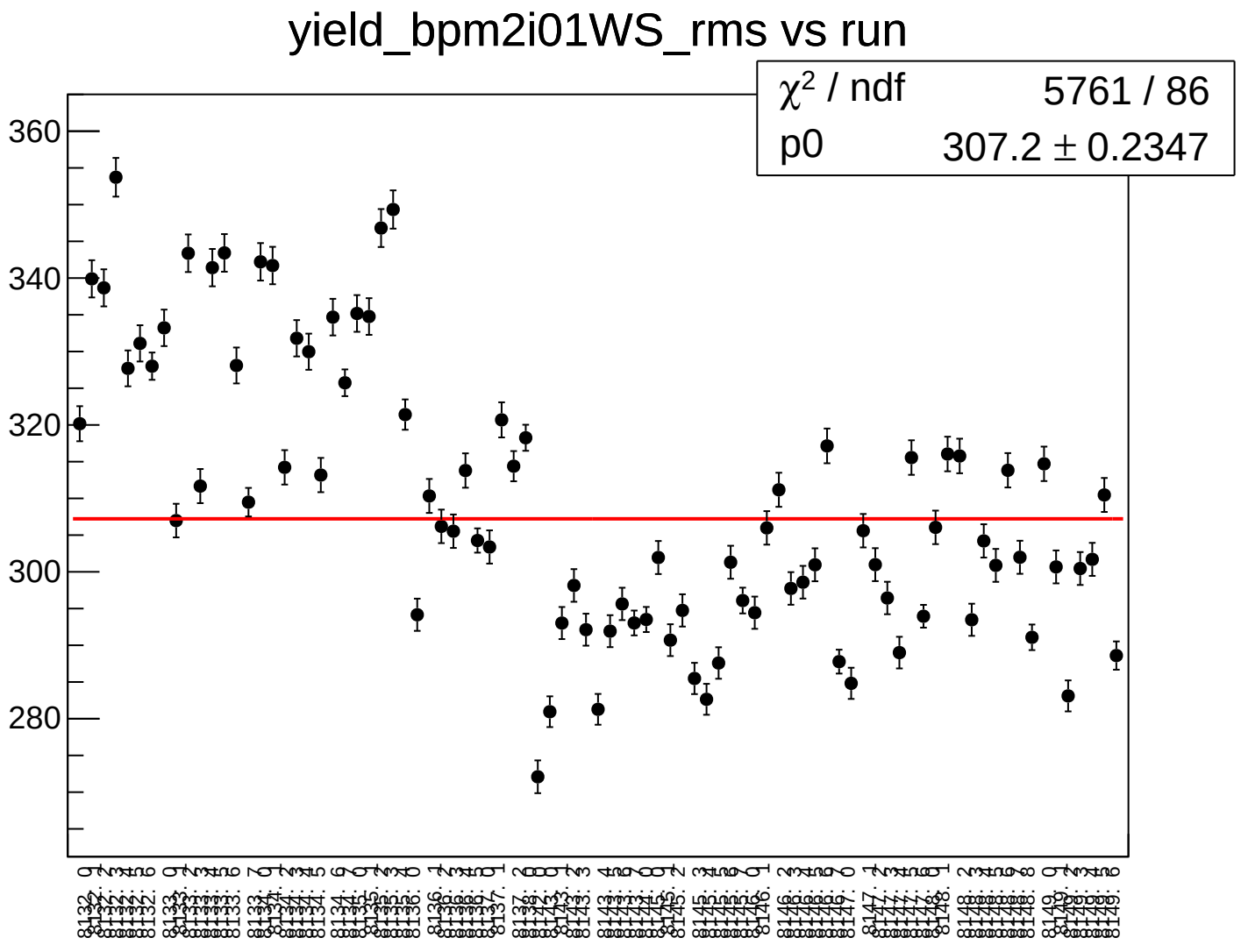

yield_bpm1i04WS_rms vs run
χ² / ndf 6748 / 86
p0 334.3 ± 0.2555
400
380
360
340
320
300

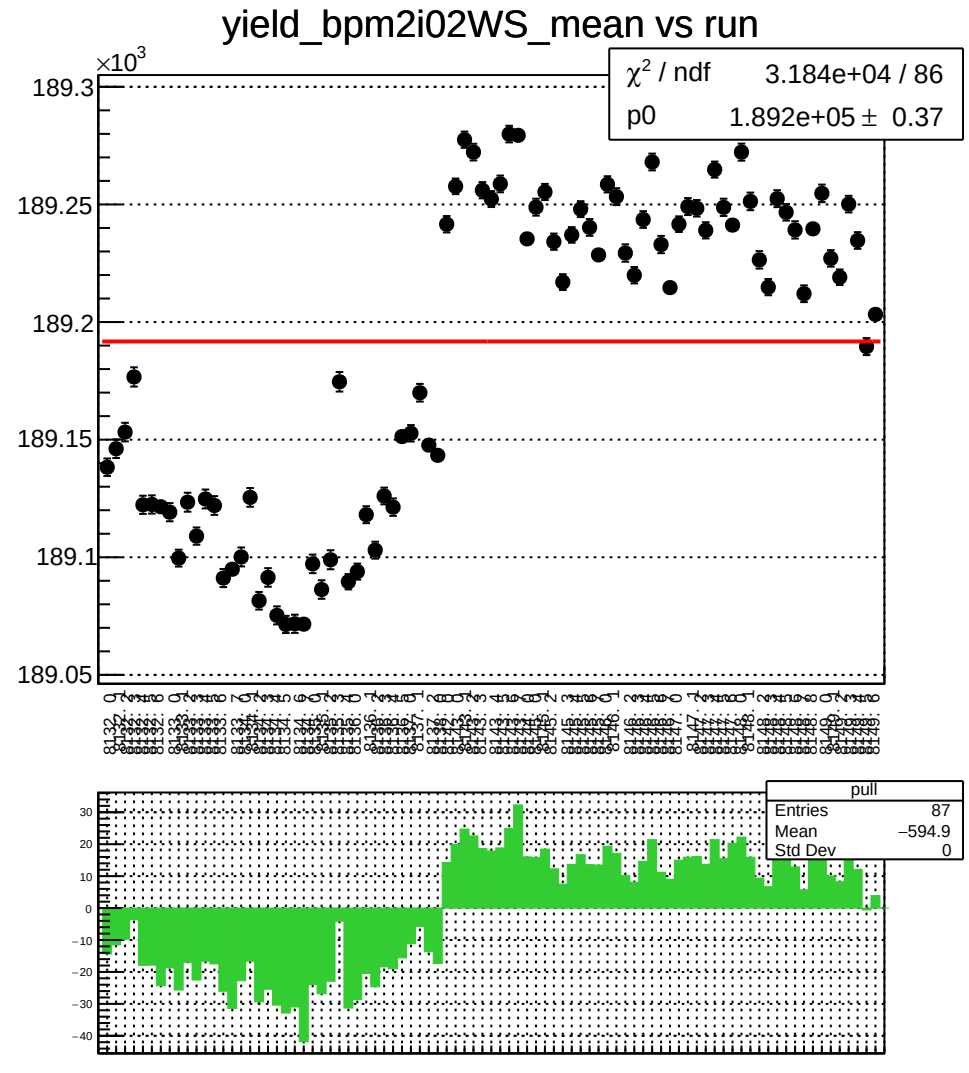

yield_bpm1i06WS_mean vs run
×10^3
χ² / ndf 2.527e+05 / 86
p0 1.615e+05 ± 0.3679
161.8
161.7
161.6
161.5
161.4
161.3
161.2
161.1
pull
Entries 87
Mean −569.4
Std Dev 0
100
50
0
−50
−100
pull1D
Entries 87
Mean −0.5844
Std Dev 4.53
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

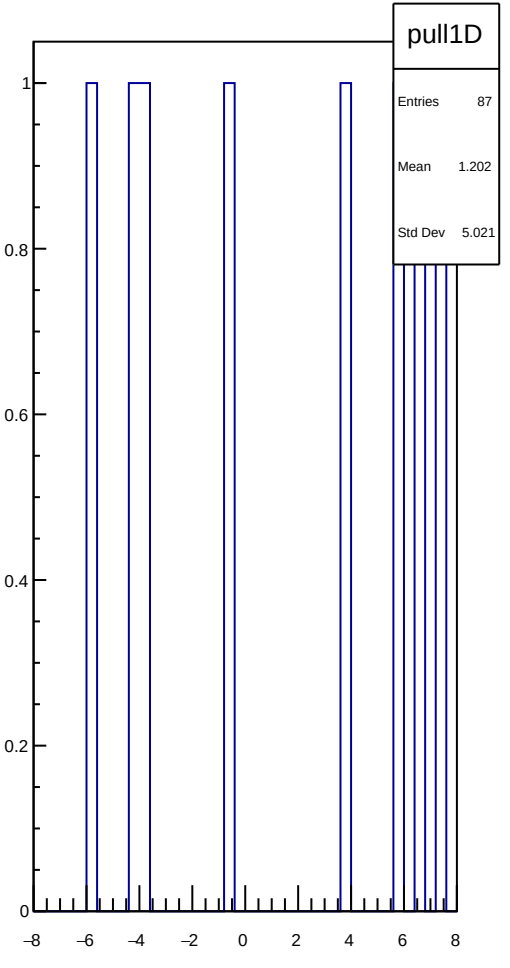

yield_bpm1i06WS_rms vs run
χ² / ndf 5355 / 86
p0 340.5 ± 0.2602
420
400
380
360
340
320
300

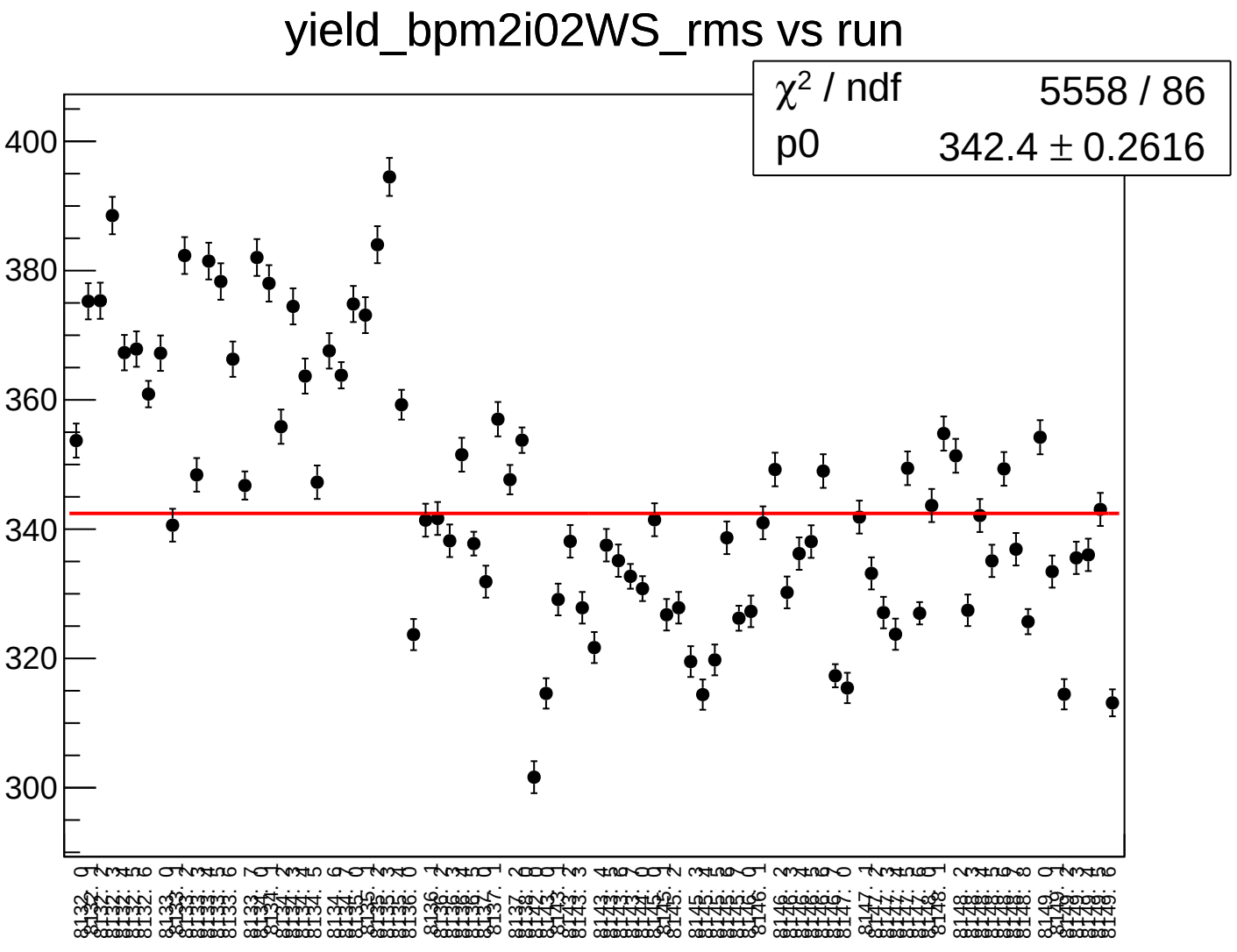

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 1.496e+04 / 86
p0 1.722e+05 ± 0.332
172.26
172.24
172.22
172.2
172.18
172.16
172.14
172.12
pull
Entries 87
Mean −555.2
Std Dev 0
20
10
0
−10
−20

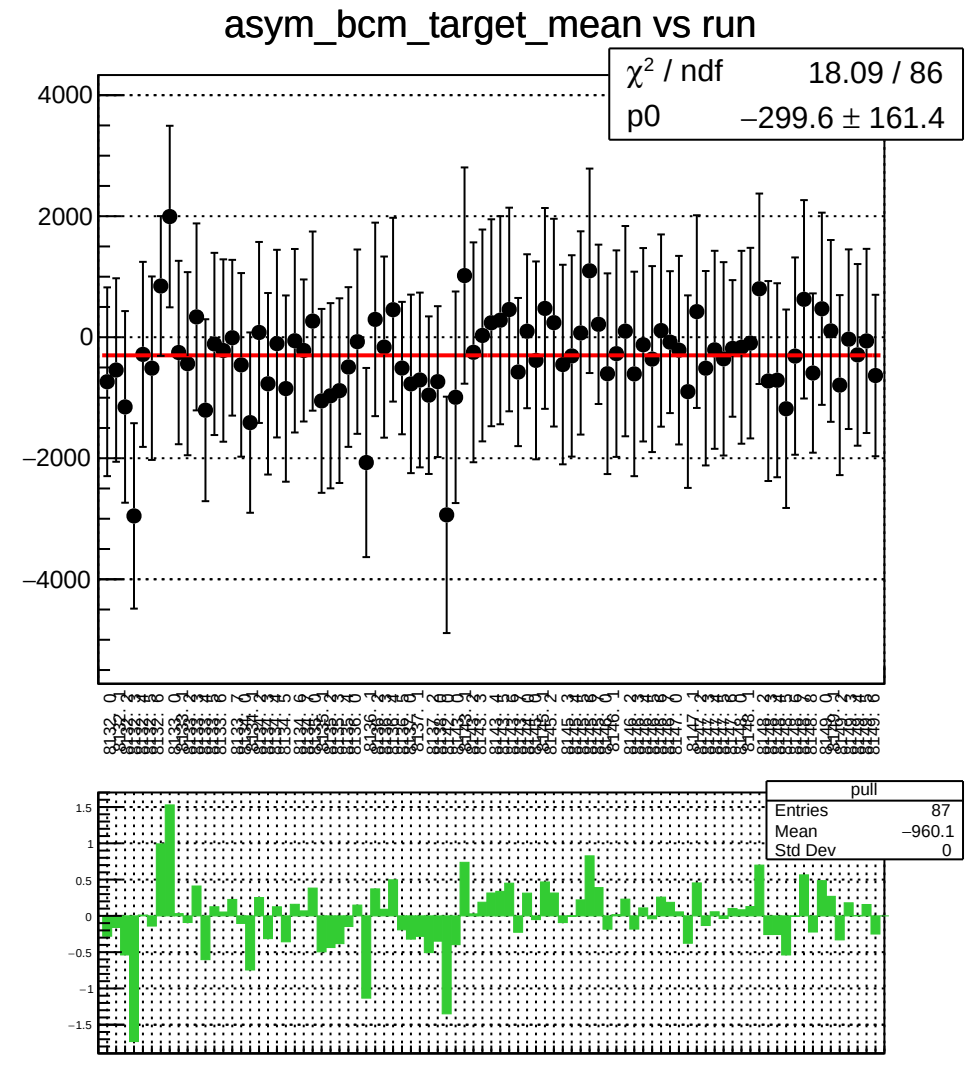

pull1D
Entries 87
Mean 3.277
Std Dev 5.097
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

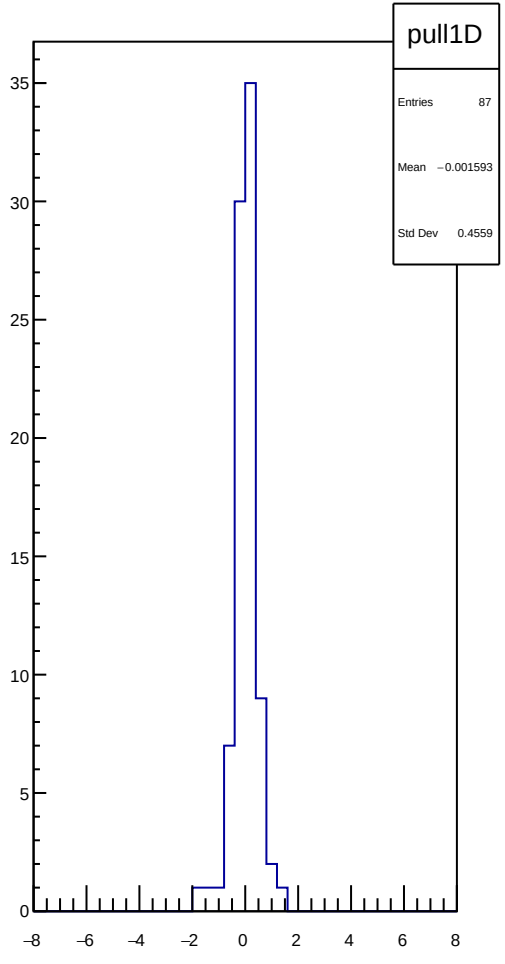

yield_bpm2i01WS_rms vs run
χ² / ndf 5761 / 86
p0 307.2 ± 0.2347
360
340
320
300
280

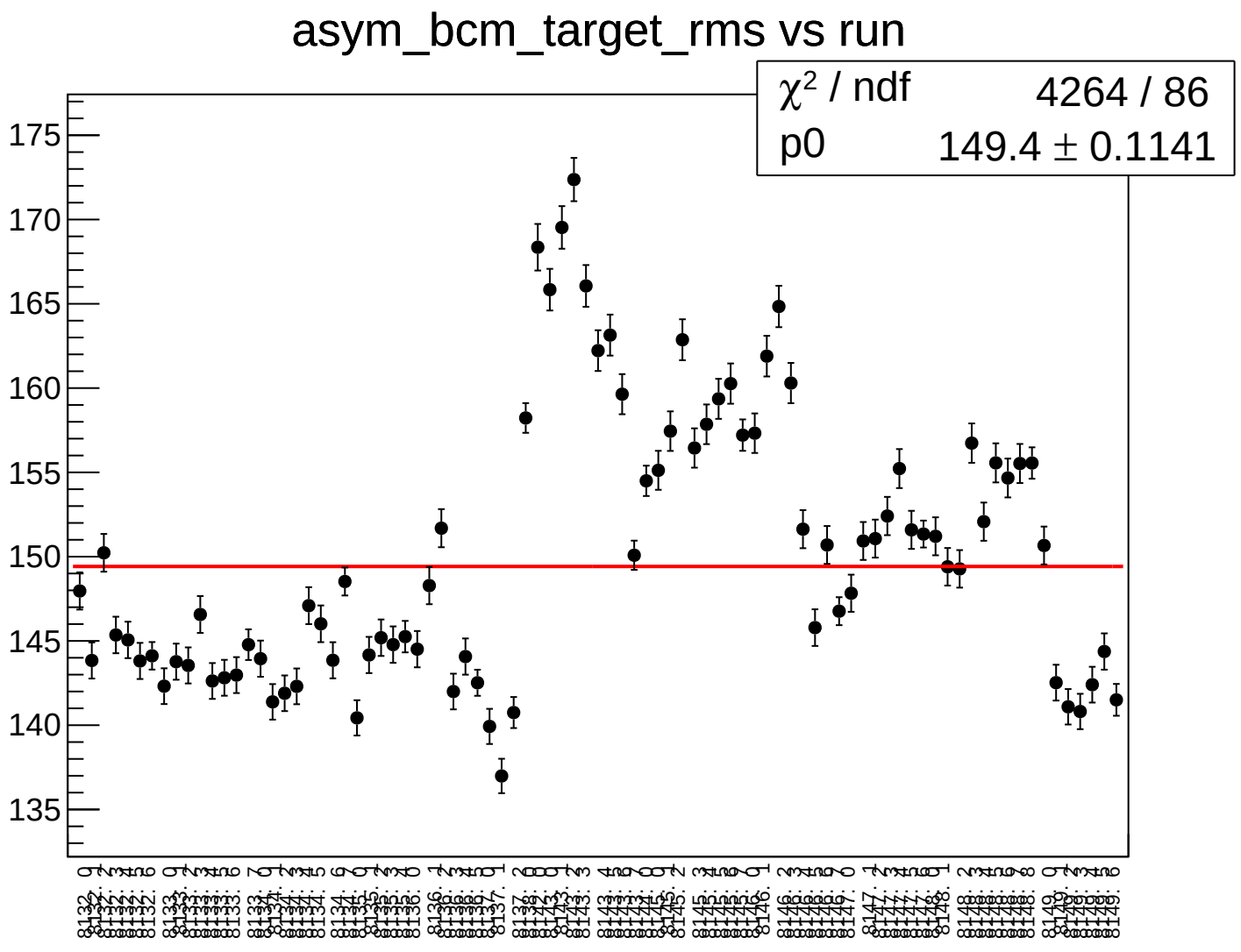

yield_bpm2i02WS_mean vs run
×10^3
χ^2 / ndf 3.184e+04 / 86
p0 1.892e+05 ± 0.37
189.3
189.25
189.2
189.15
189.1
189.05
pull
Entries 87
Mean −594.9
Std Dev 0
30
20
10
0
−10
−20
−30
−40

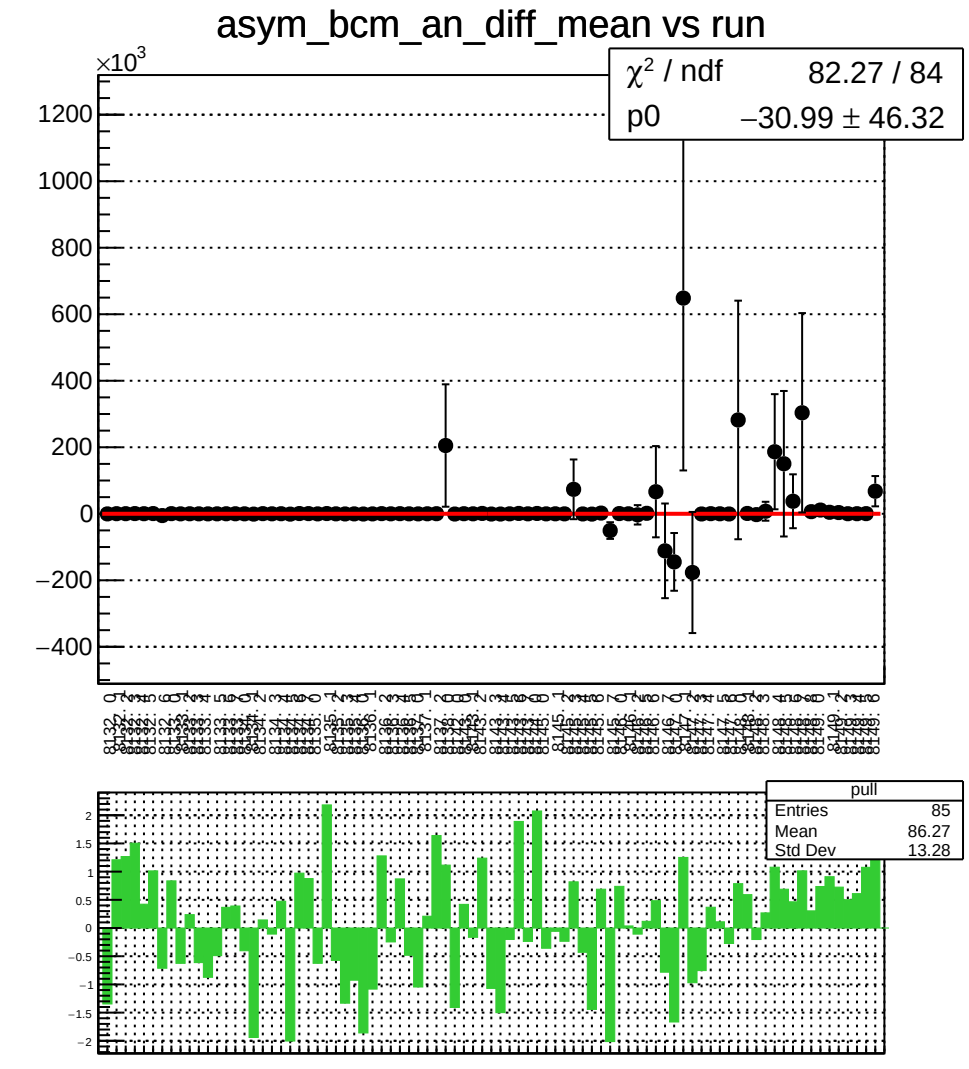

pull1D
Entries 87
Mean 1.202
Std Dev 5.021
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

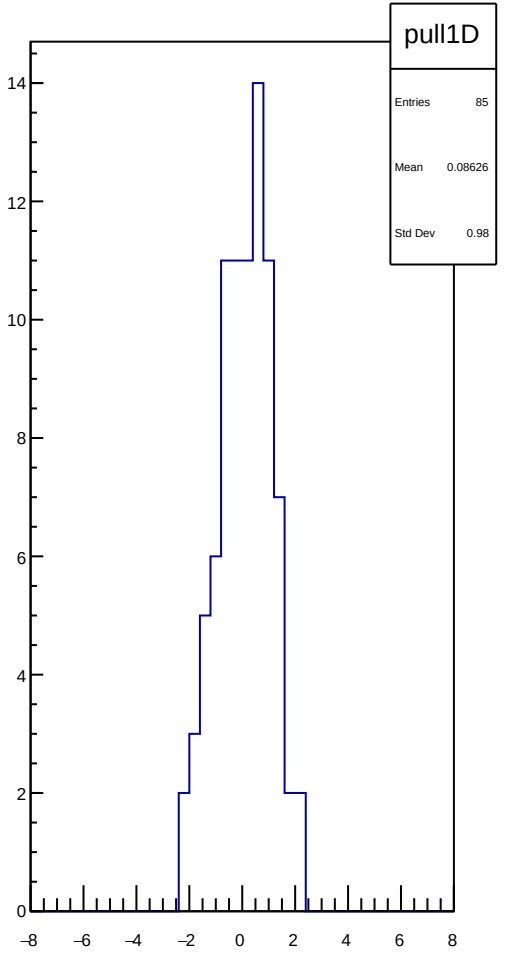

yield_bpm2i02WS_rms vs run
χ² / ndf 5558 / 86
p0 342.4 ± 0.2616
400
380
360
340
320
300

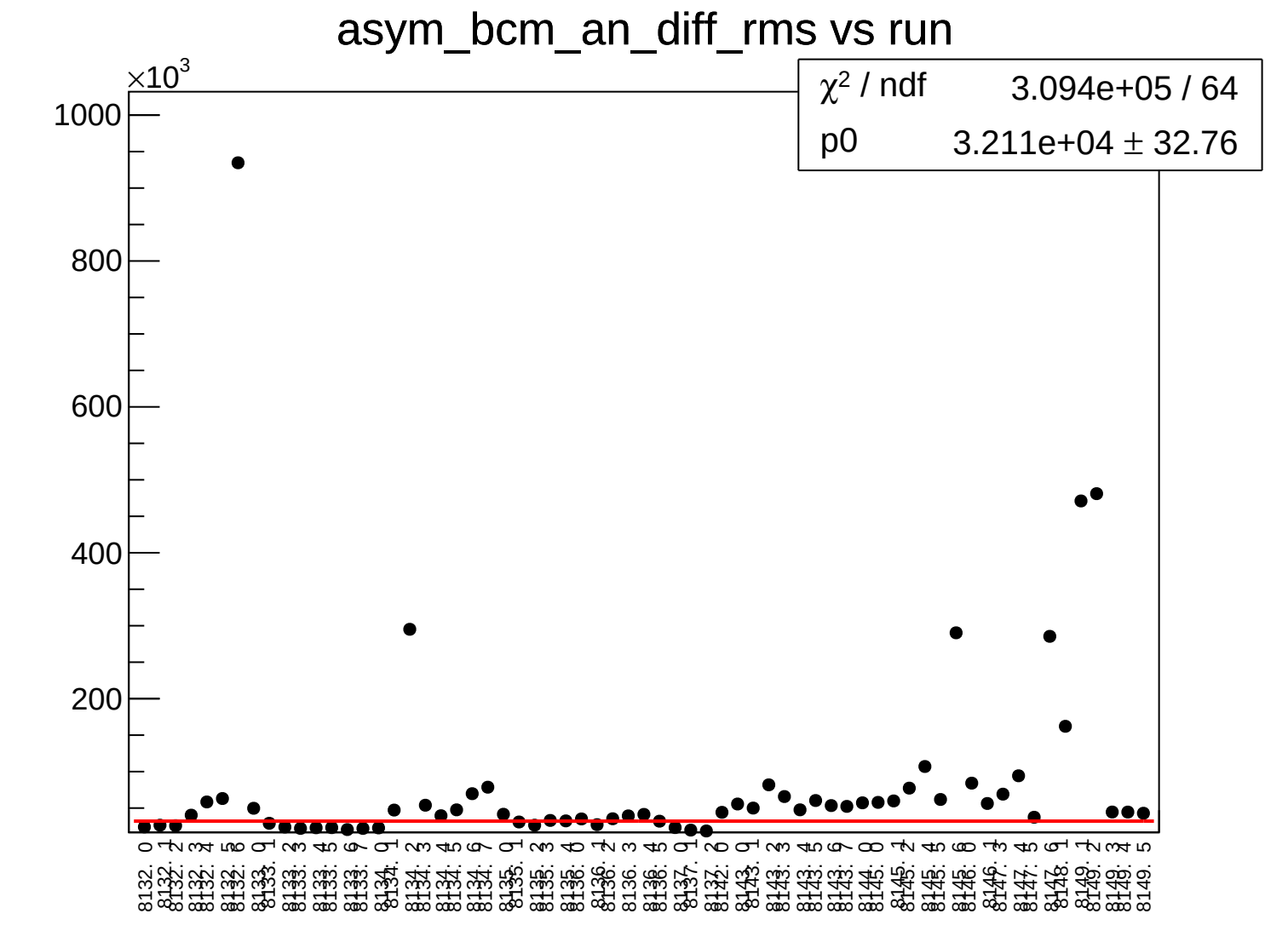

asym_bcm_target_mean vs run
χ² / ndf 18.09 / 86
p0 −299.6 ± 161.4
4000
2000
0
−2000
−4000
pull
Entries 87
Mean −960.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

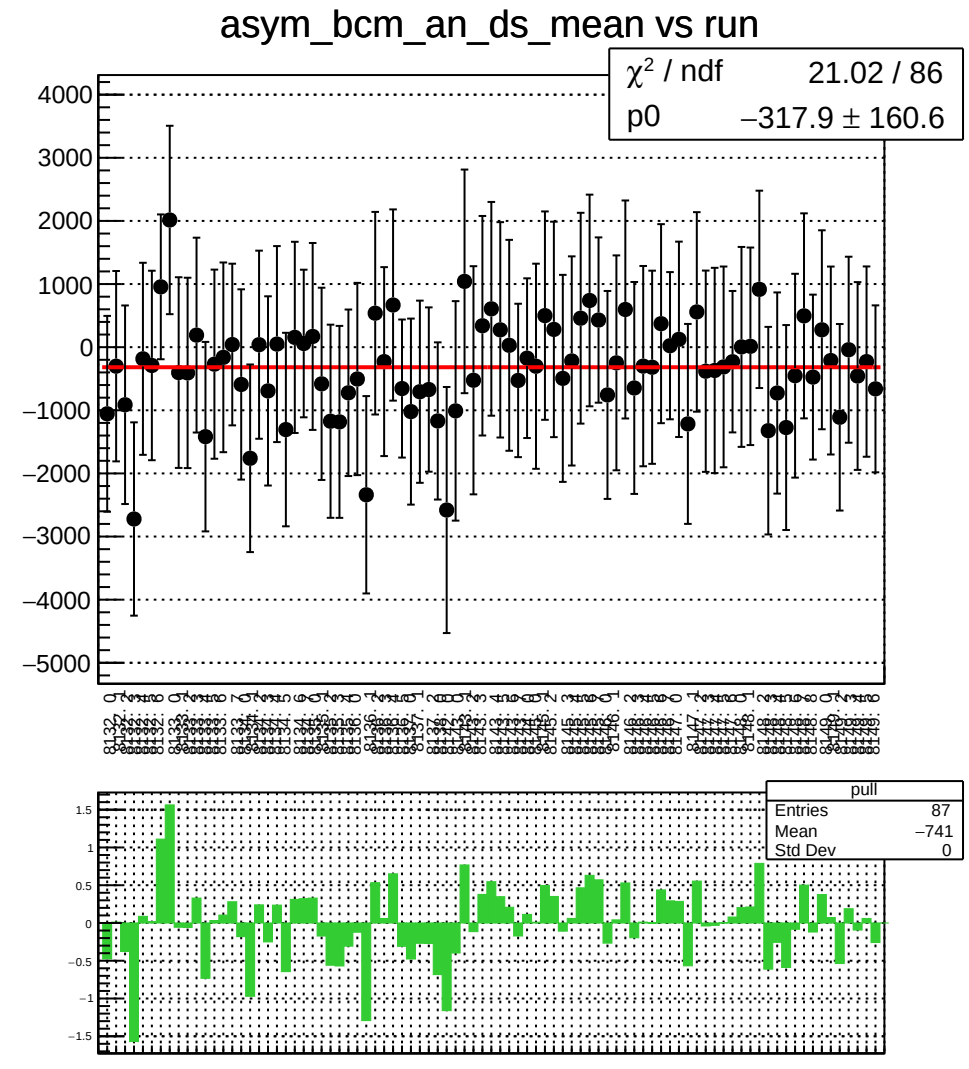

pull1D
Entries 87
Mean −0.001593
Std Dev 0.4559
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

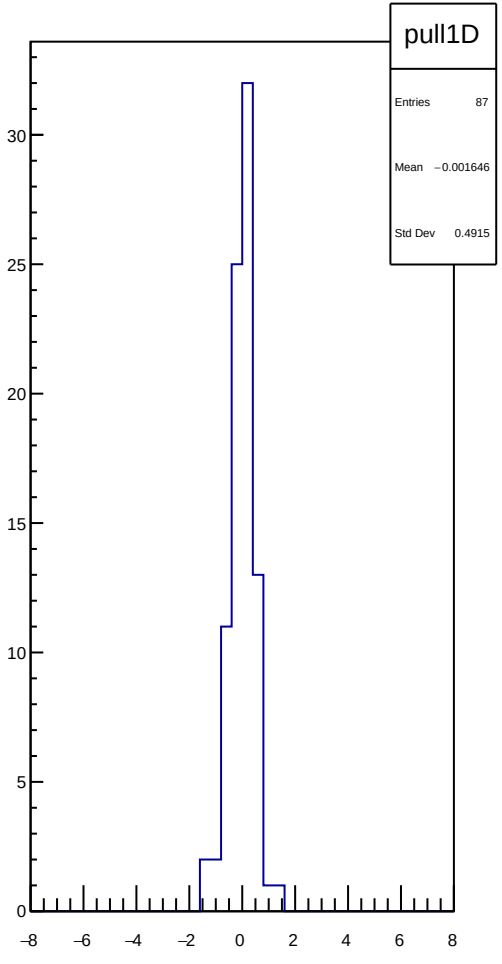

asym_bcm_target_rms vs run
χ² / ndf 4264 / 86
p0 149.4 ± 0.1141
175
170
165
160
155
150
145
140
135

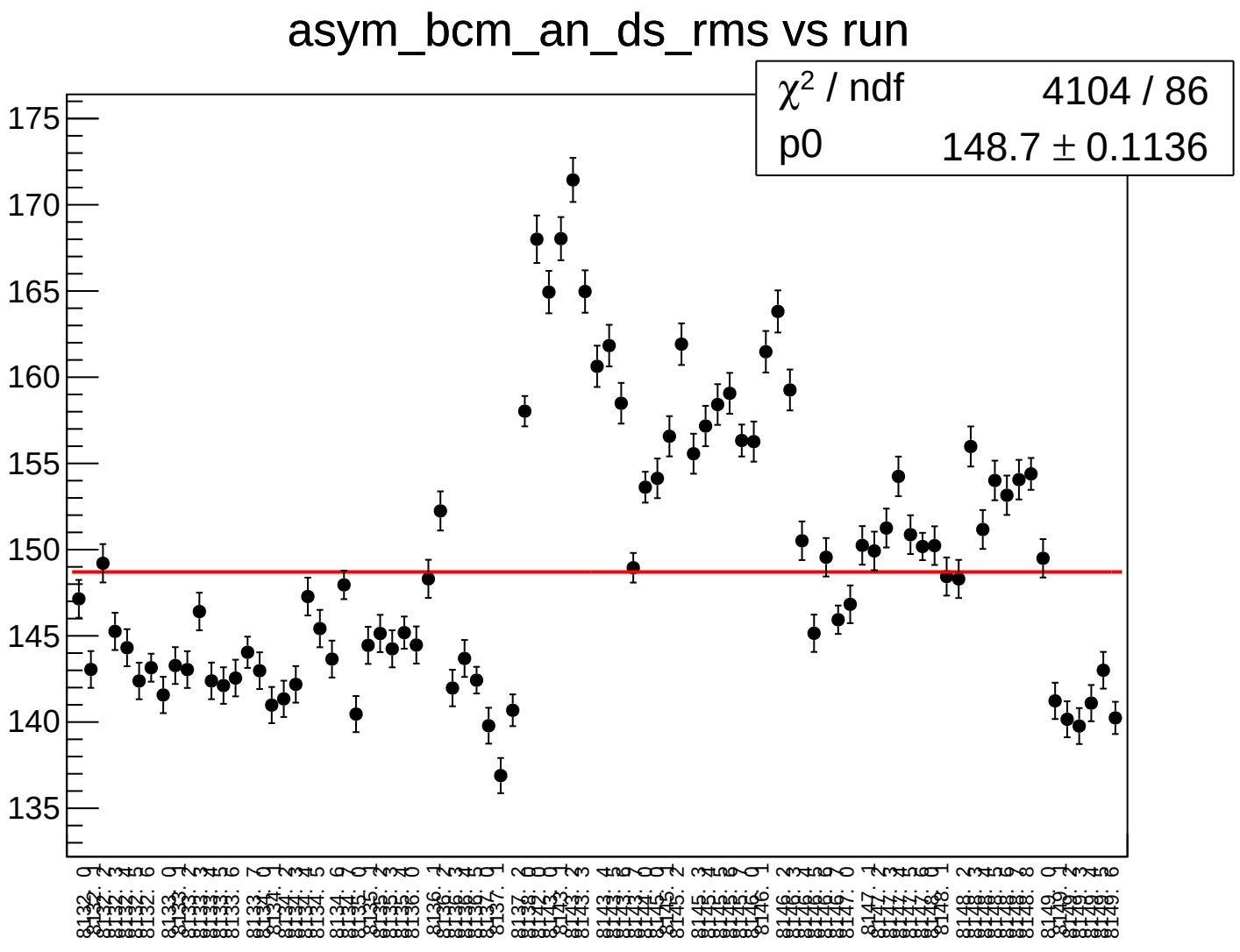

asym_bcm_an_diff_mean vs run
×10^3
χ² / ndf 82.27 / 84
p0 −30.99 ± 46.32
1200
1000
800
600
400
200
0
−200
−400
pull
Entries 85
Mean 86.27
Std Dev 13.28
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

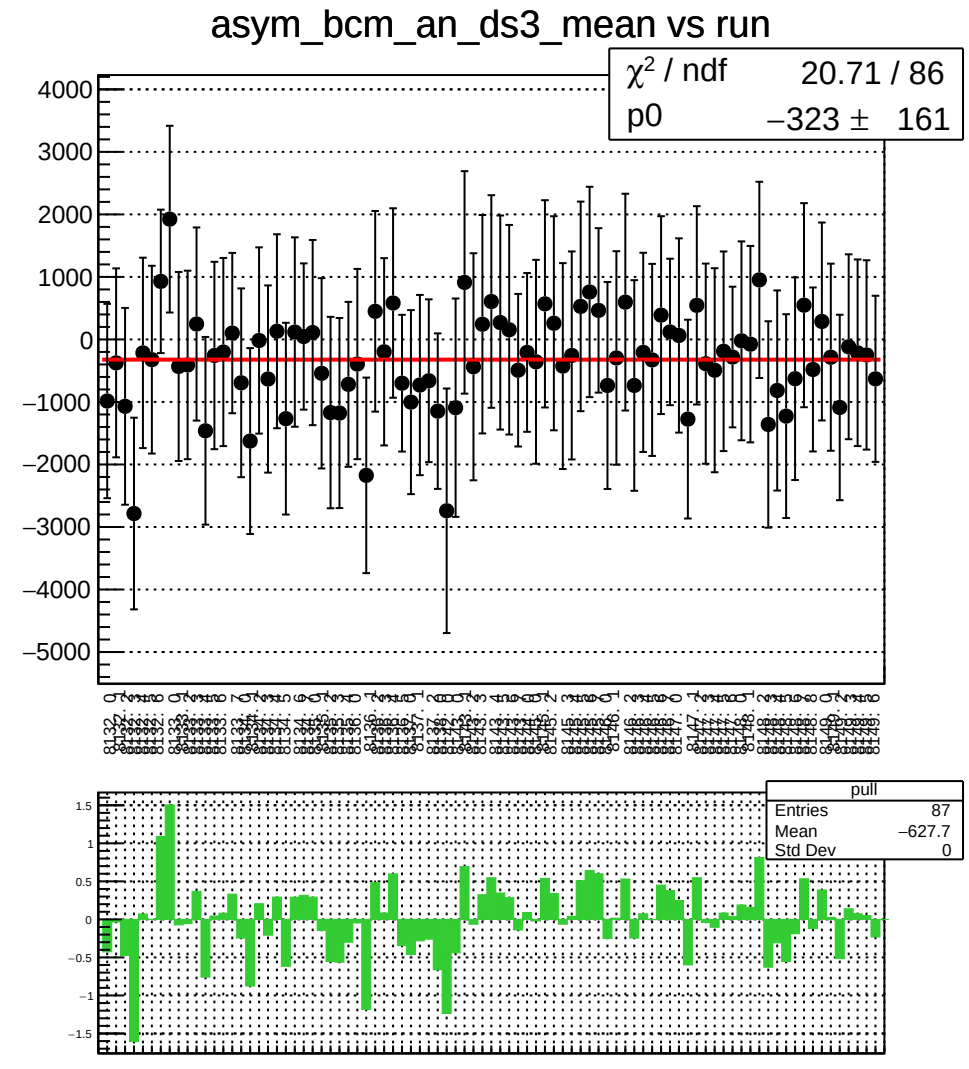

pull1D
Entries 85
Mean 0.08626
Std Dev 0.98
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

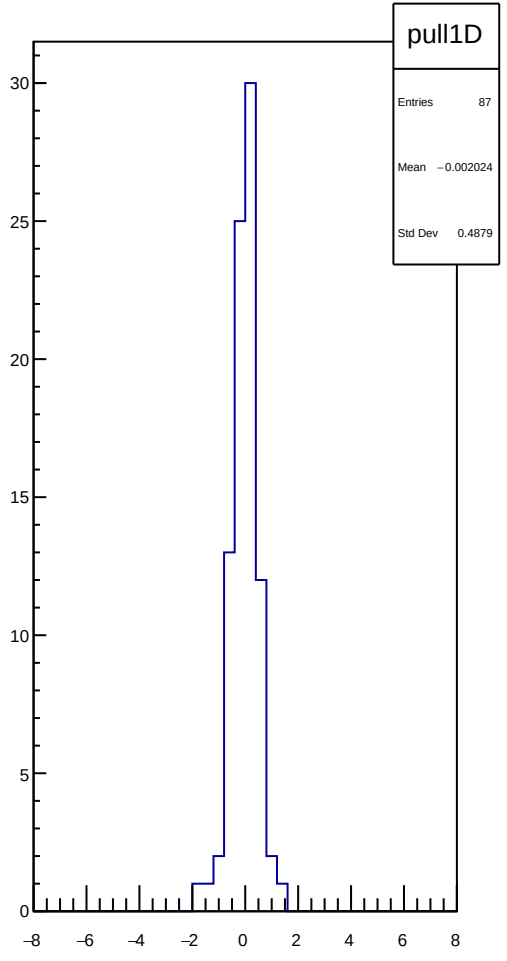

asym_bcm_an_diff_rms vs run
×10^3
1000
800
600
400
200
χ² / ndf 3.094e+05 / 64
p0 3.211e+04 ± 32.76

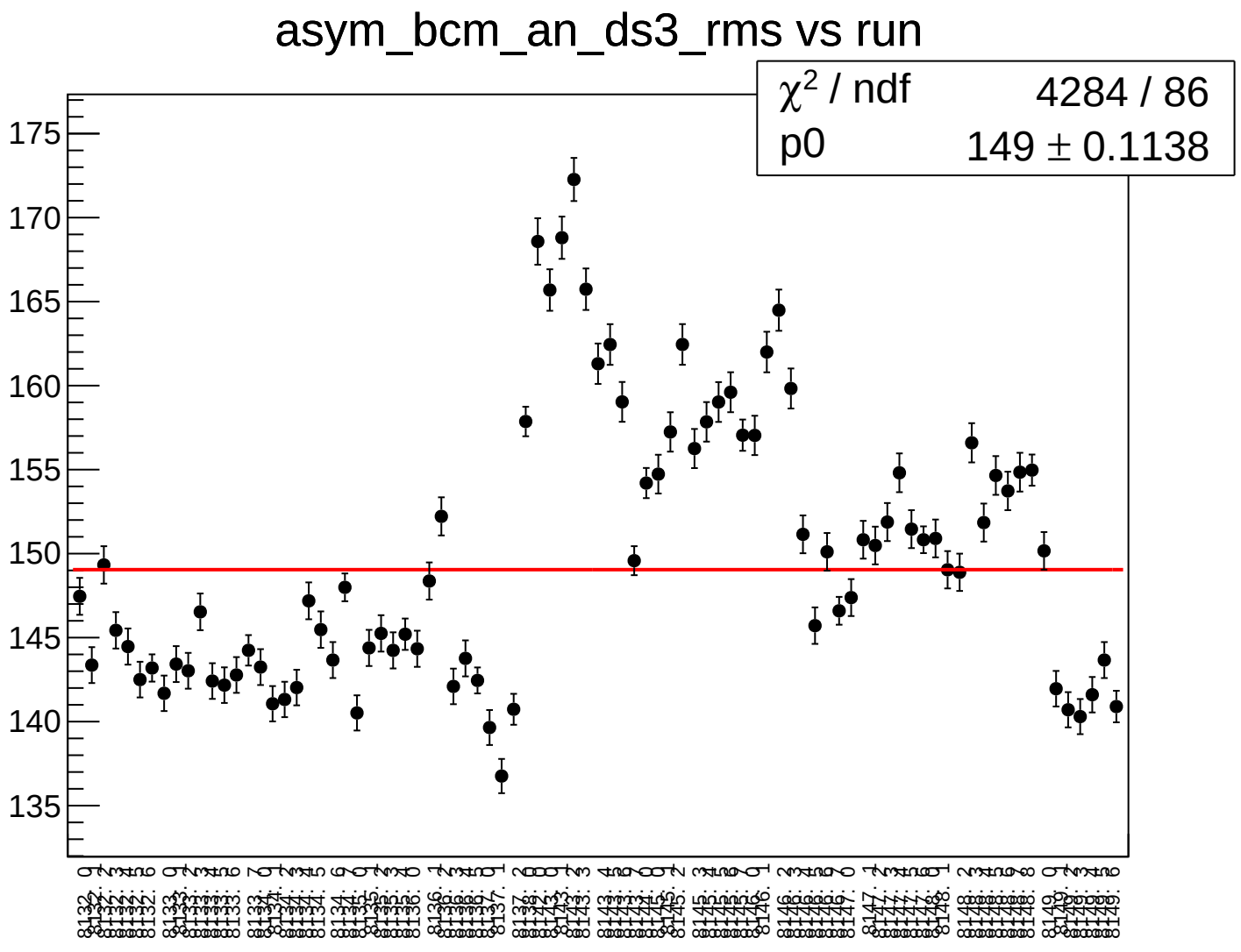

asym_bcm_an_ds_mean vs run
χ² / ndf 21.02 / 86
p0 −317.9 ± 160.6
pull
Entries 87
Mean −741
Std Dev 0

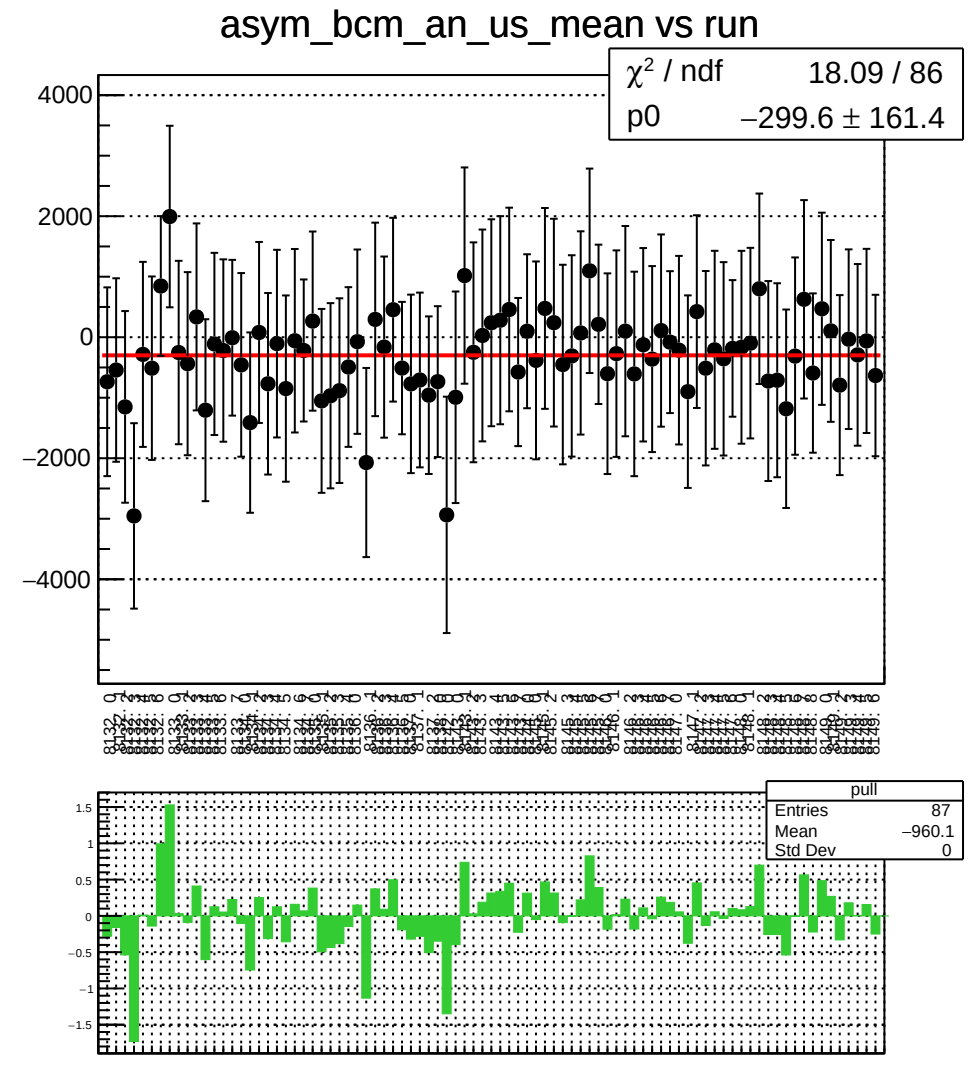

pull1D
Entries 87
Mean −0.001646
Std Dev 0.4915

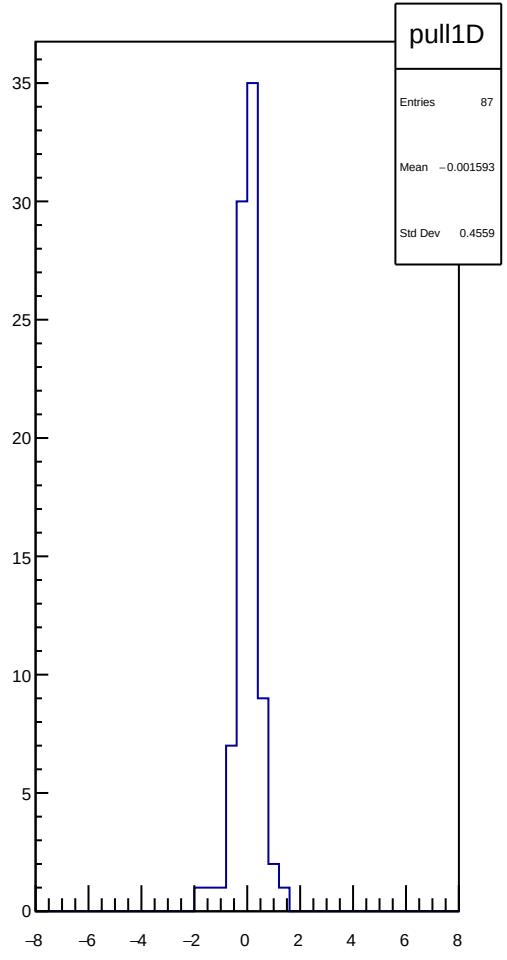

asym_bcm_an_ds_rms vs run
χ² / ndf 4104 / 86
p0 148.7 ± 0.1136
175
170
165
160
155
150
145
140
135

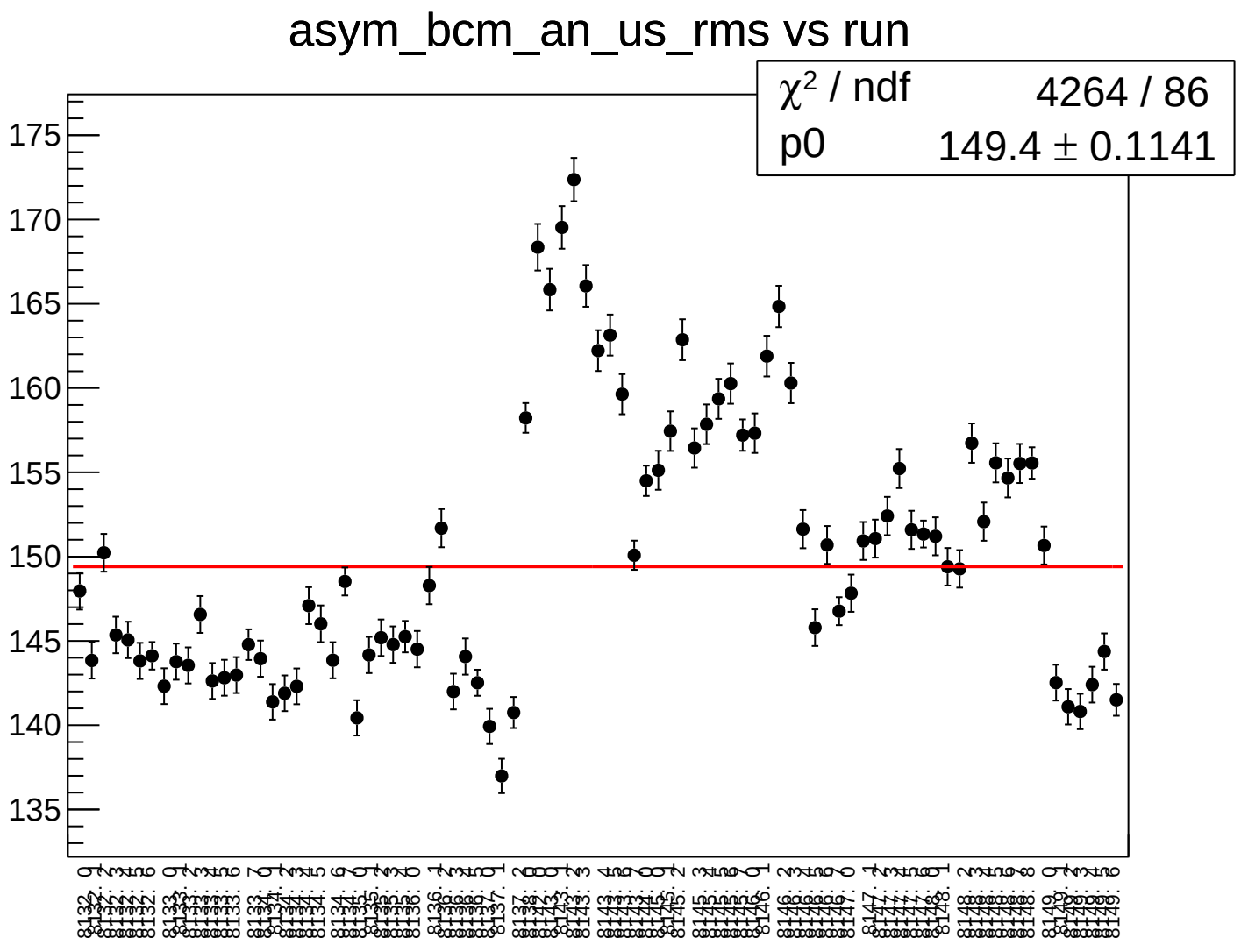

asym_bcm_an_ds3_mean vs run
χ² / ndf 20.71 / 86
p0 −323 ± 161
pull
Entries 87
Mean −627.7
Std Dev 0

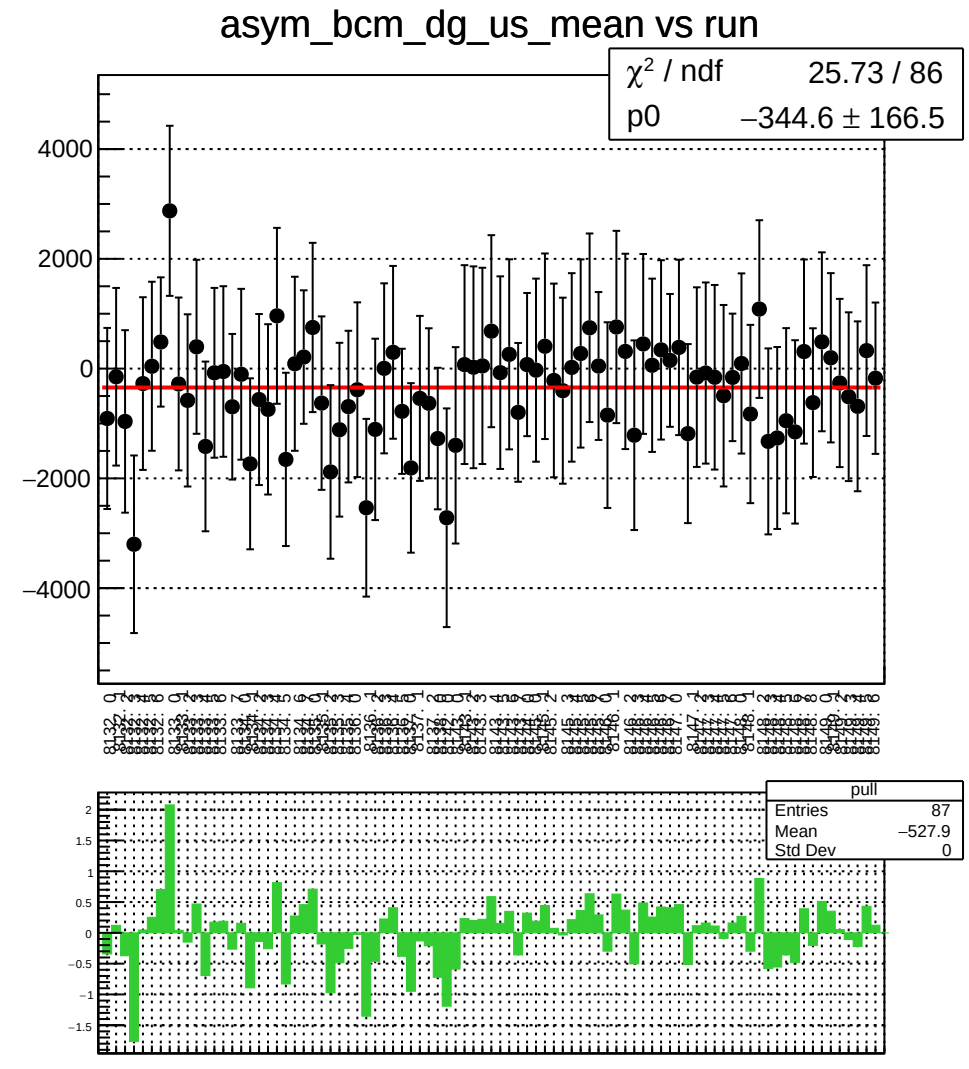

pull1D
Entries 87
Mean −0.002024
Std Dev 0.4879

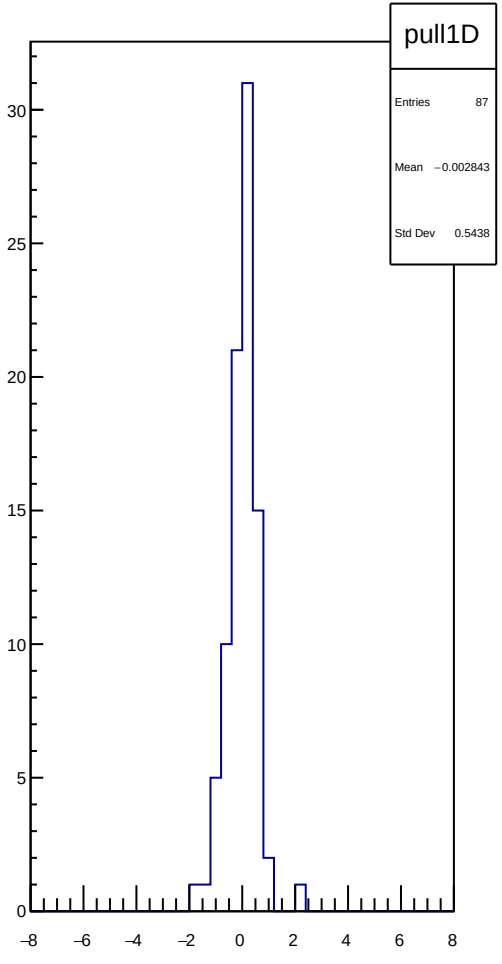

asym_bcm_an_ds3_rms vs run
χ^2 / ndf 4284 / 86
p0 149 ± 0.1138
175
170
165
160
155
150
145
140
135

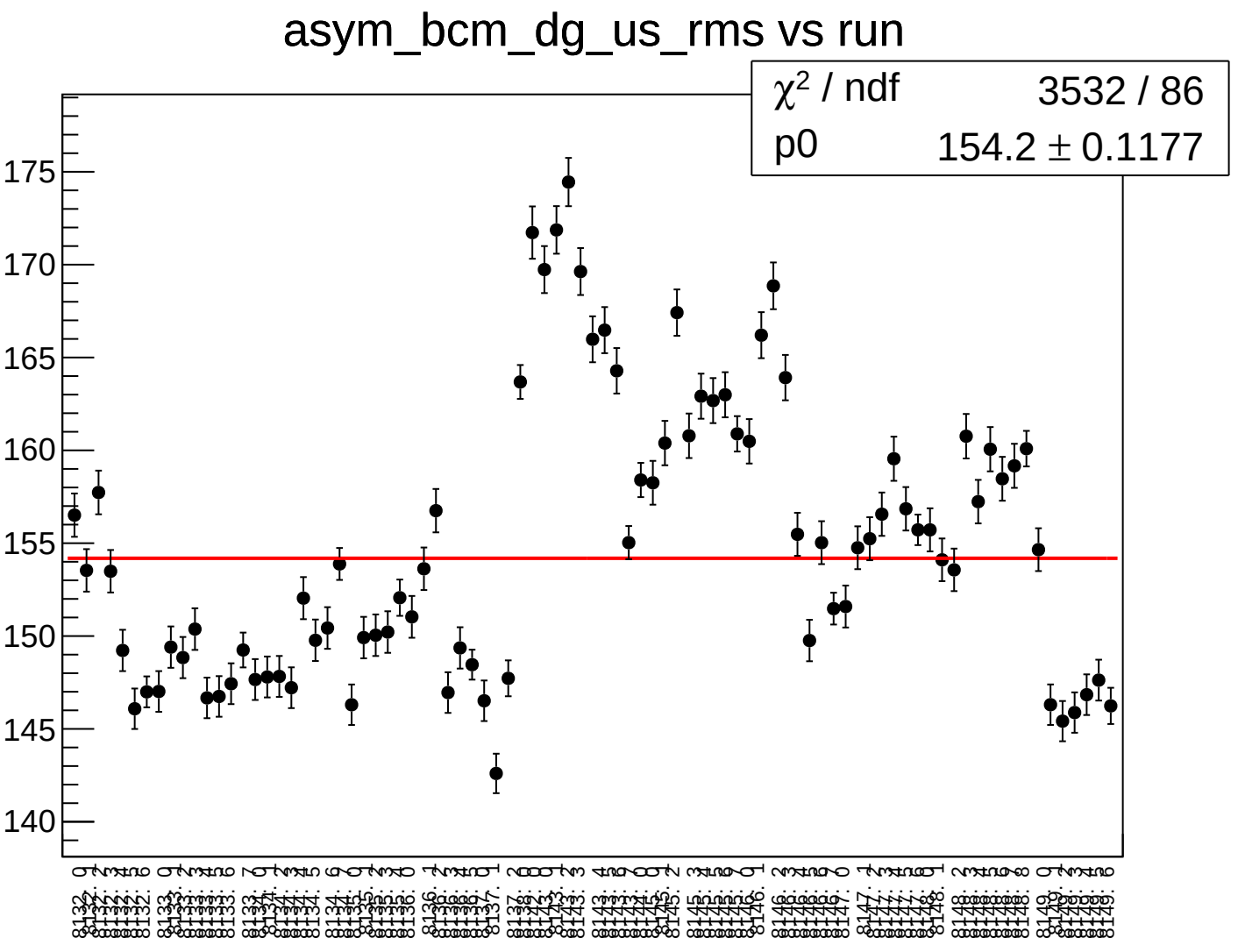

asym_bcm_an_us_mean vs run
χ² / ndf 18.09 / 86
p0 −299.6 ± 161.4
4000
2000
0
−2000
−4000
pull
Entries 87
Mean −960.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

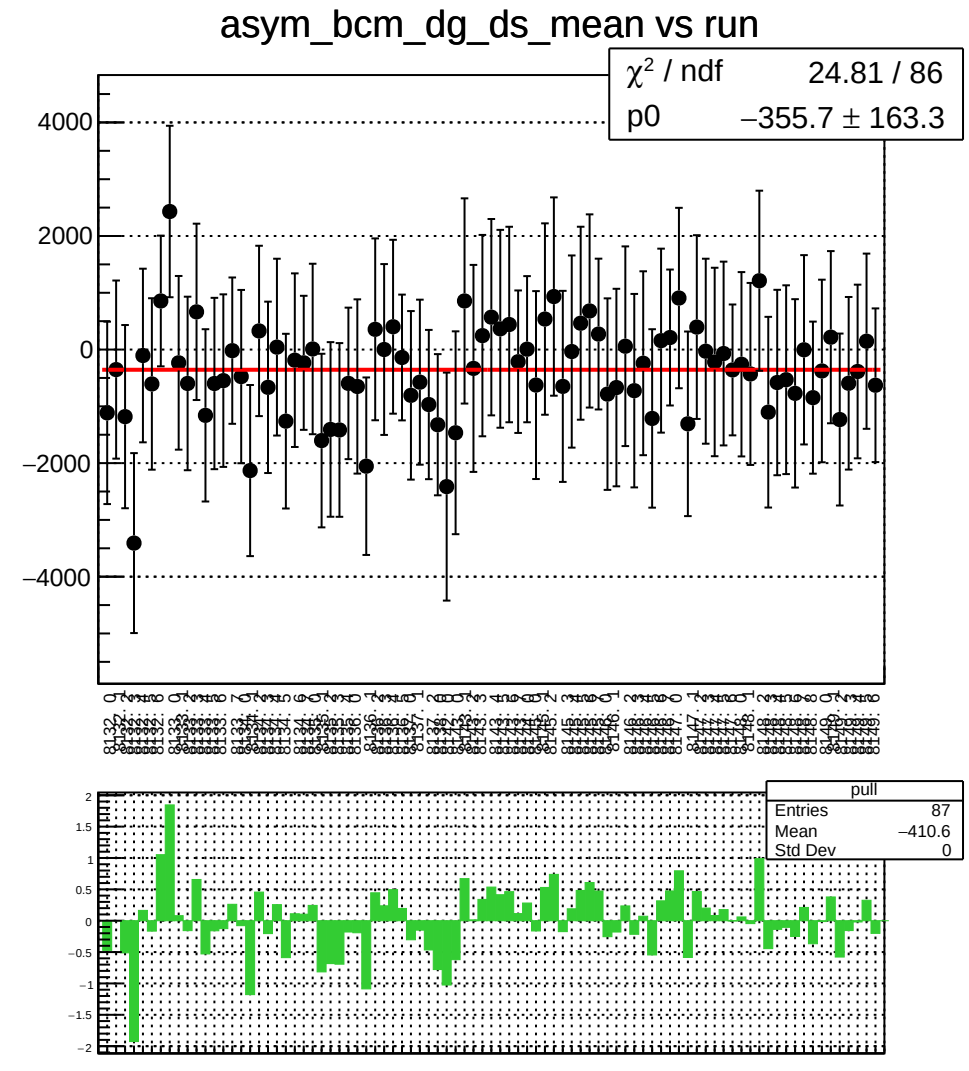

pull1D
Entries 87
Mean −0.001593
Std Dev 0.4559
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

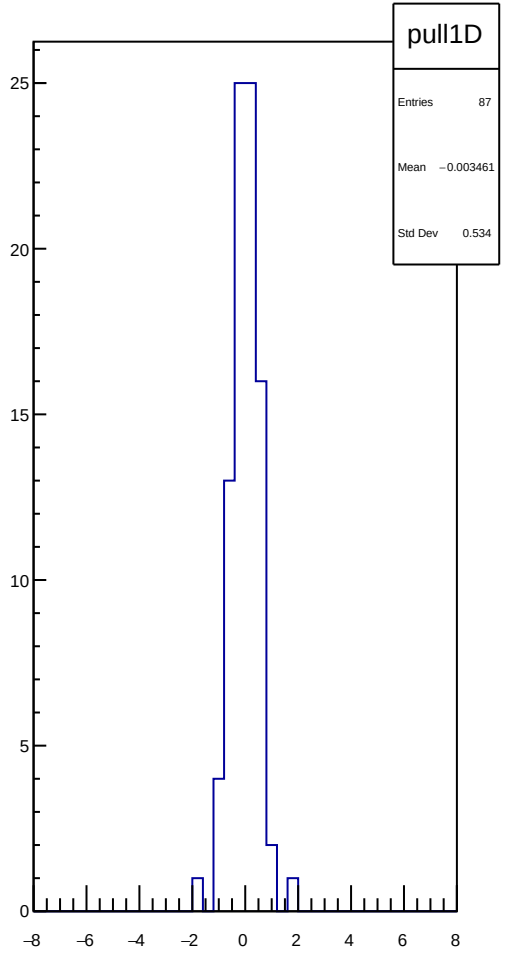

asym_bcm_an_us_rms vs run
χ² / ndf 4264 / 86
p0 149.4 ± 0.1141
175
170
165
160
155
150
145
140
135

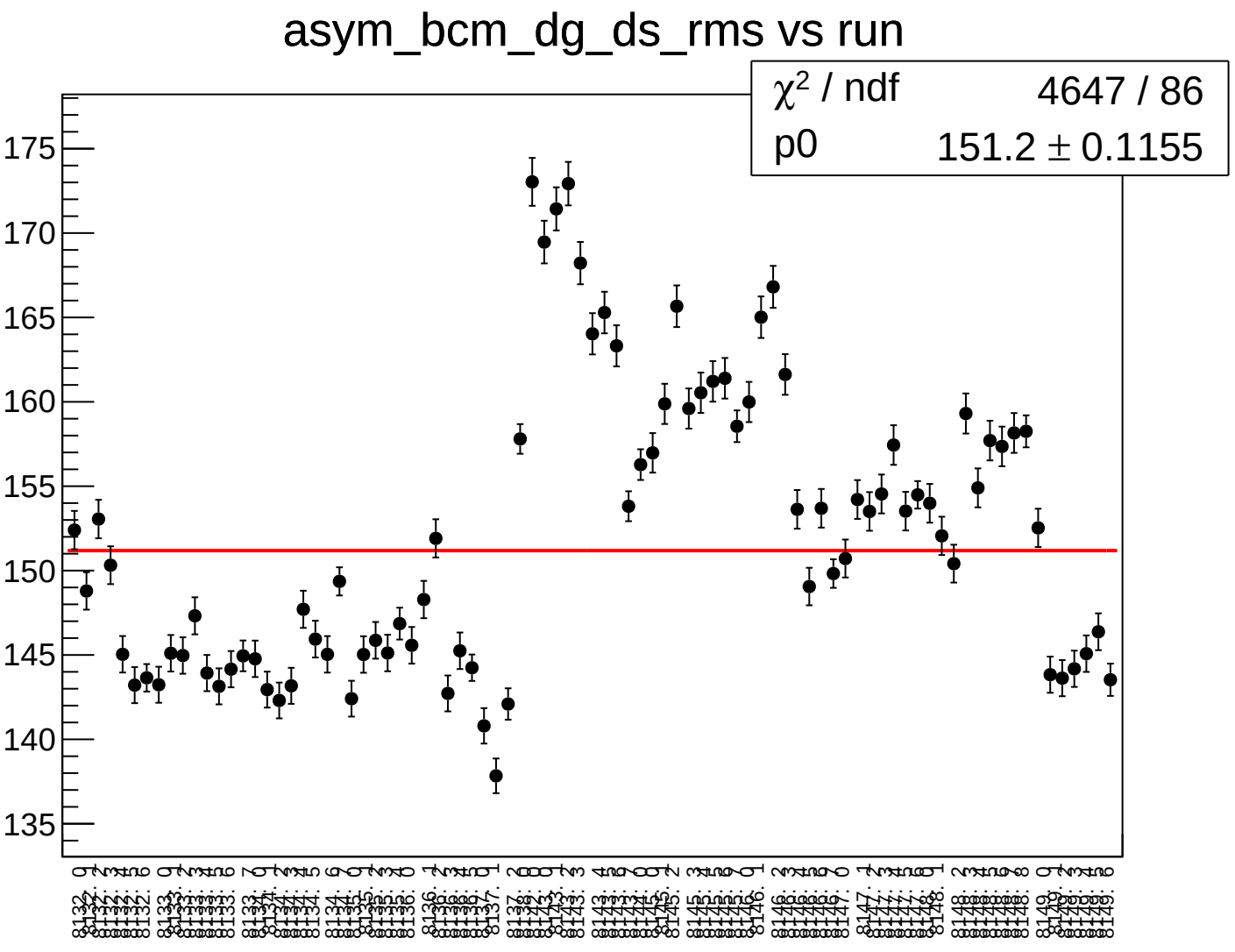

asym_bcm_dg_us_mean vs run
χ² / ndf 25.73 / 86
p0 −344.6 ± 166.5
4000
2000
0
−2000
−4000
pull
Entries 87
Mean −527.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

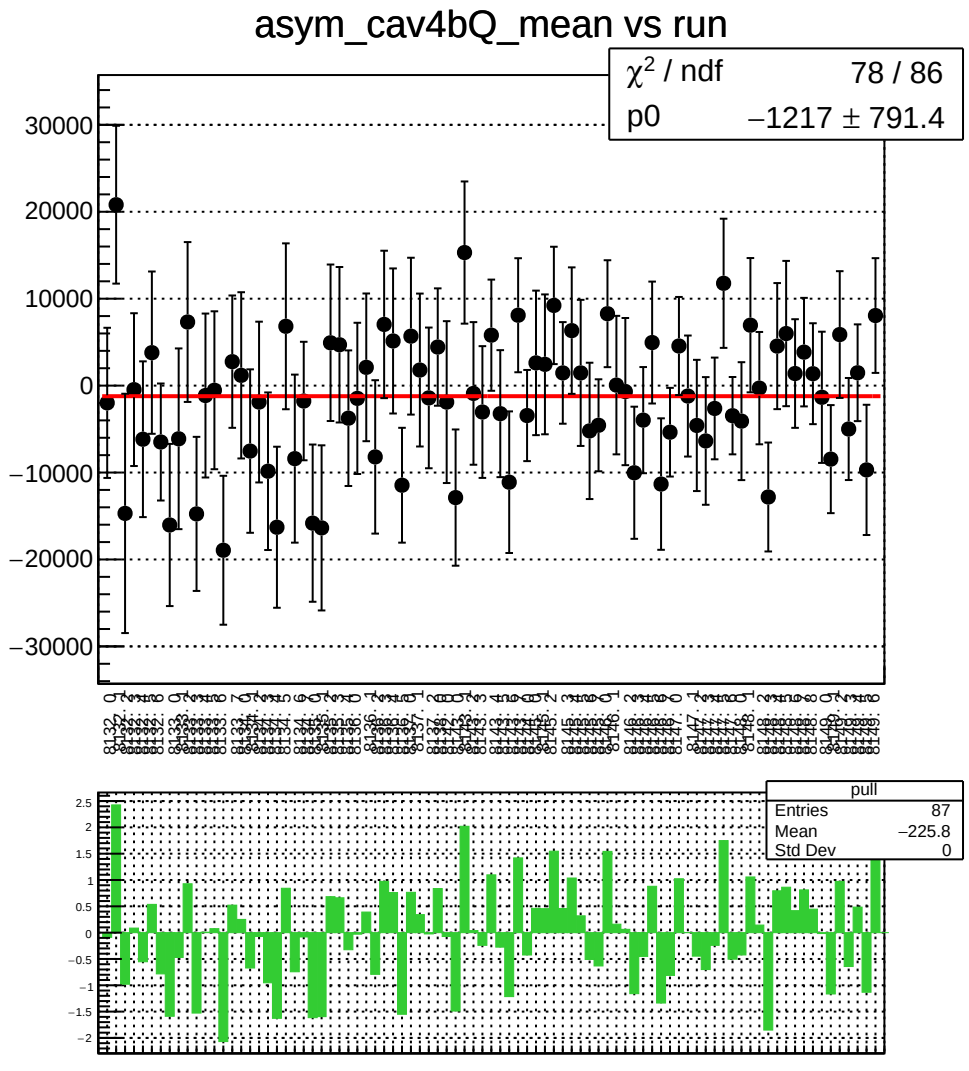

pull1D
Entries 87
Mean −0.002843
Std Dev 0.5438
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

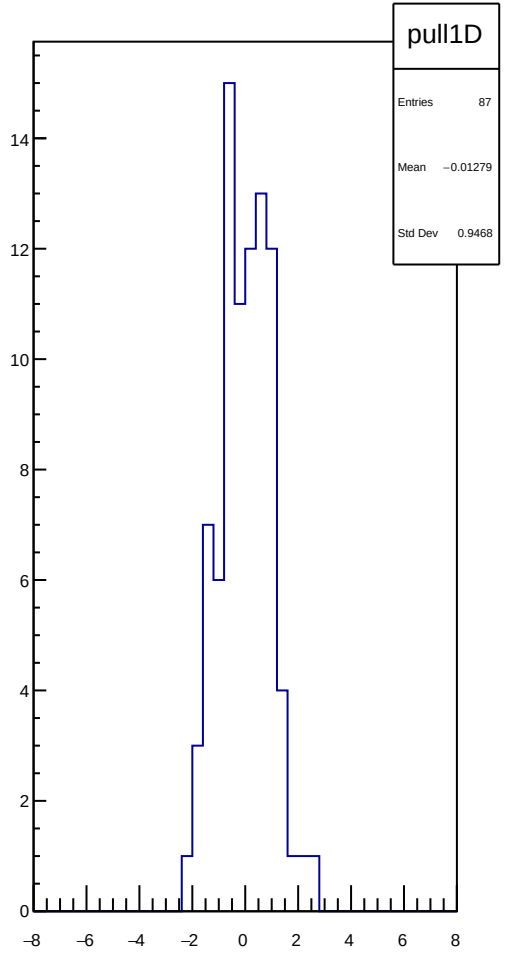

asym_bcm_dg_us_rms vs run
χ² / ndf 3532 / 86
p0 154.2 ± 0.1177
175
170
165
160
155
150
145
140


asym_bcm_dg_ds_mean vs run
χ² / ndf 24.81 / 86
p0 −355.7 ± 163.3
4000
2000
0
−2000
−4000
pull
Entries 87
Mean −410.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

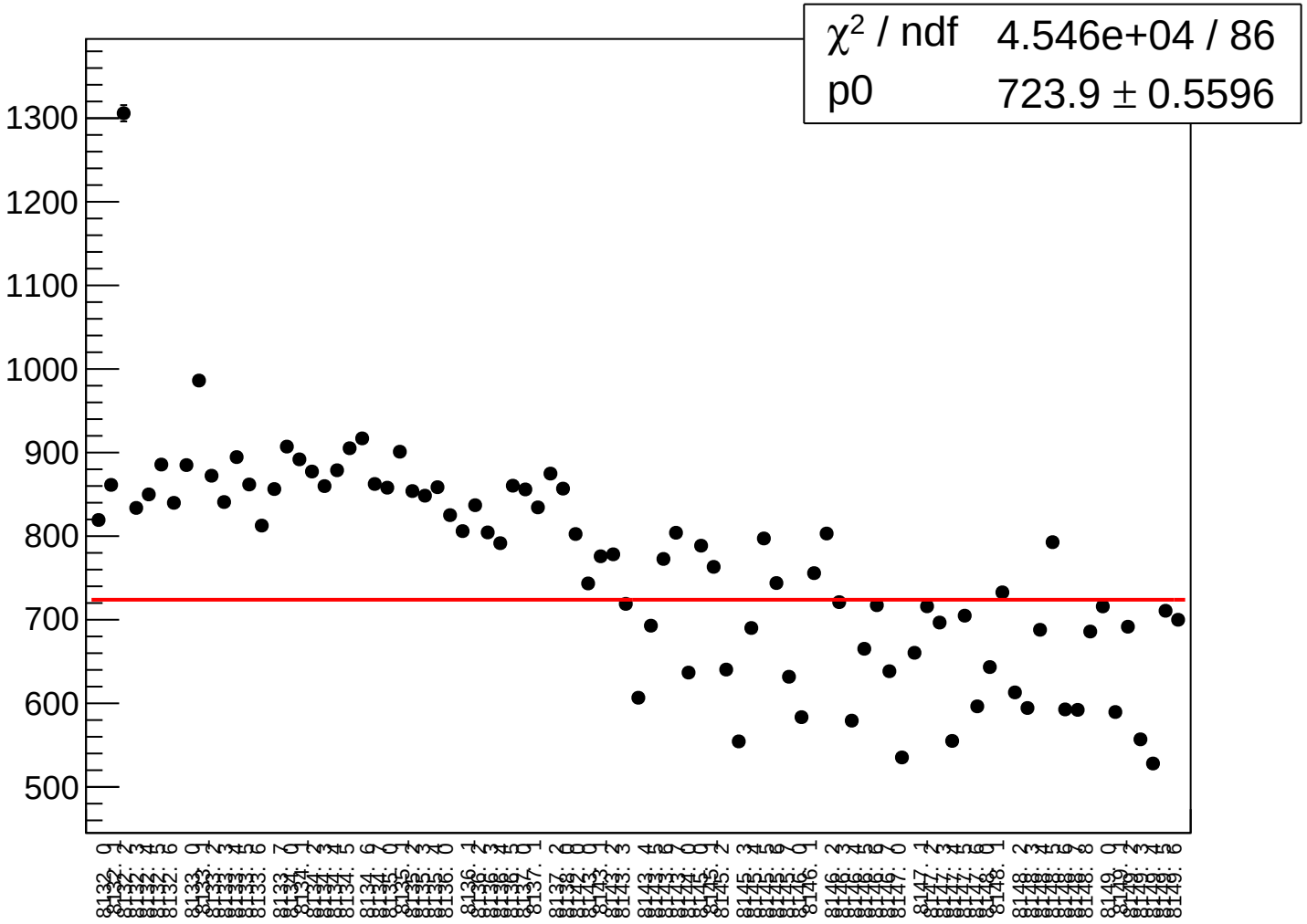

pull1D
Entries 87
Mean −0.003461
Std Dev 0.534
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

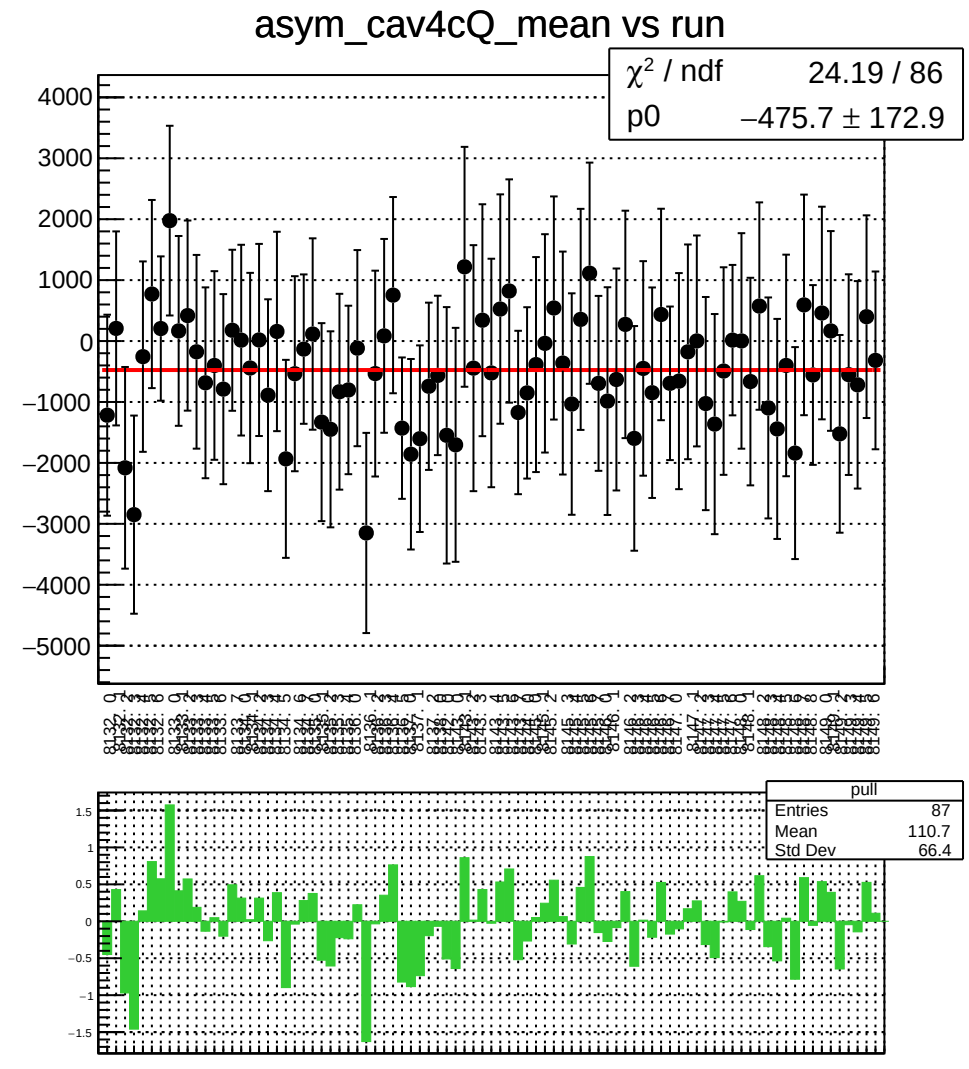

asym_bcm_dg_ds_rms vs run
χ² / ndf 4647 / 86
p0 151.2 ± 0.1155
175
170
165
160
155
150
145
140
135

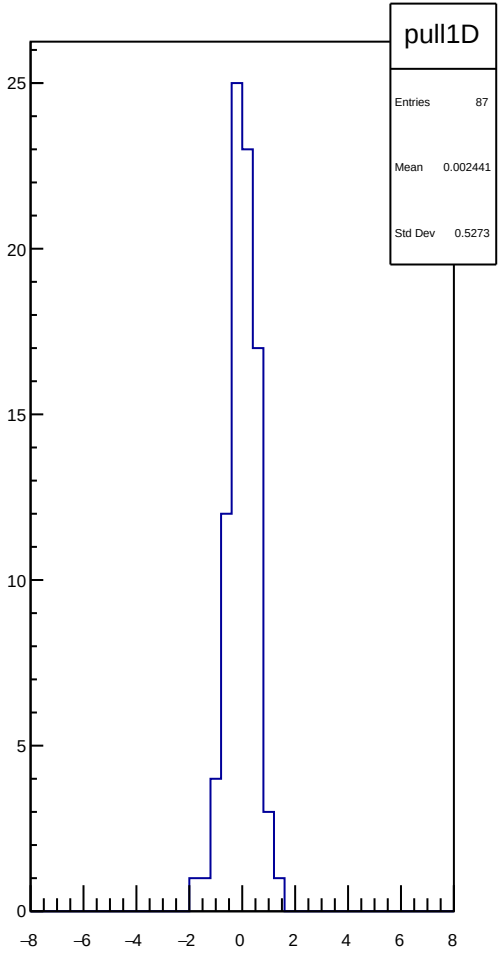

asym_cav4bQ_mean vs run
χ² / ndf 78 / 86
p0 −1217 ± 791.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean −225.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

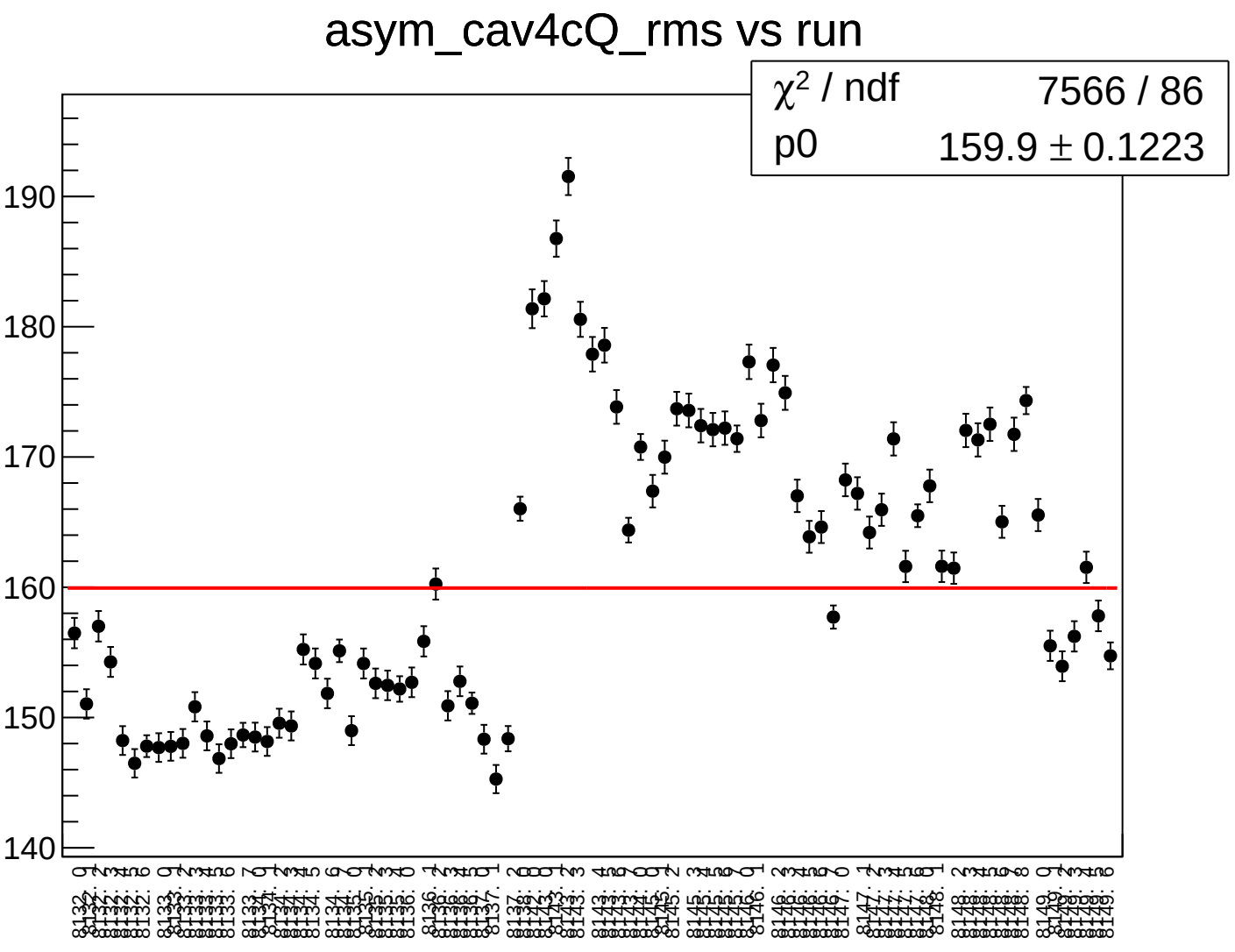

pull1D
Entries 87
Mean −0.01279
Std Dev 0.9468
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

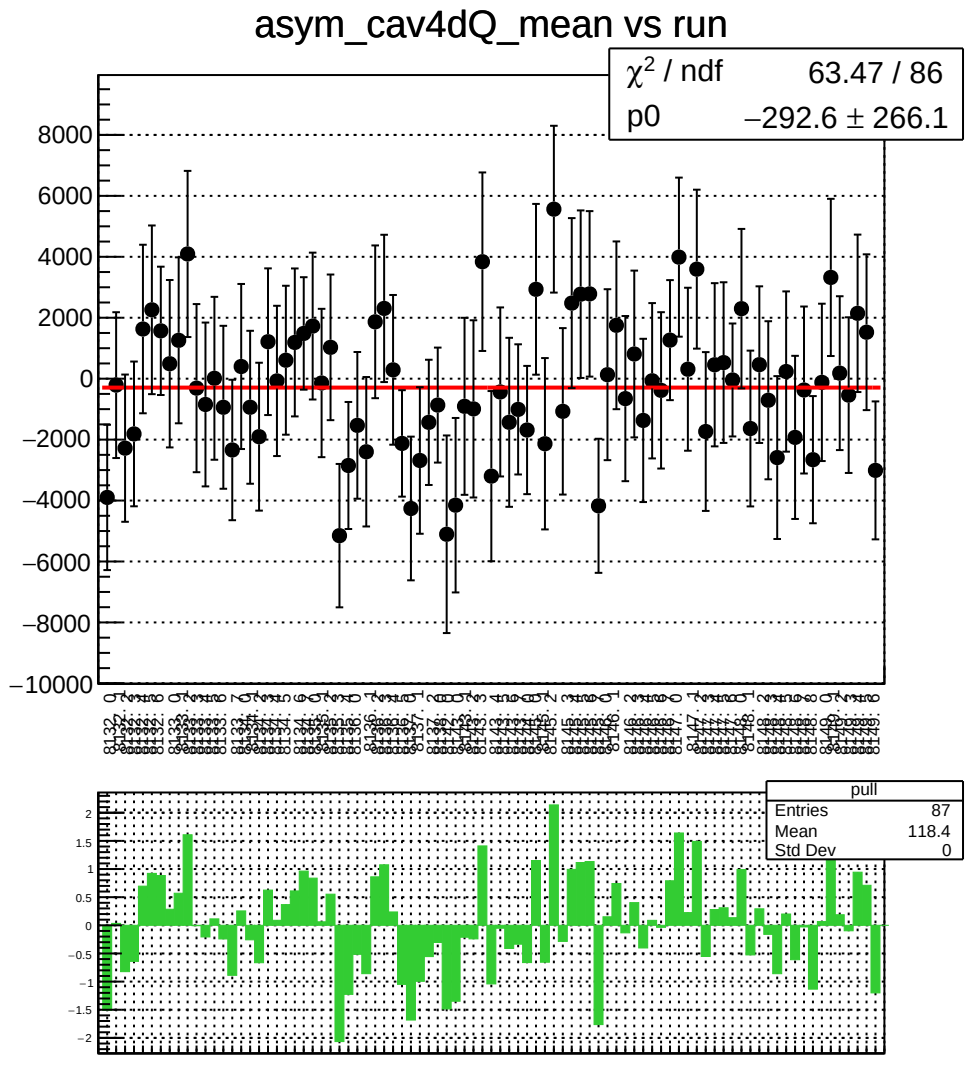
asym_cav4bQ_rms vs run

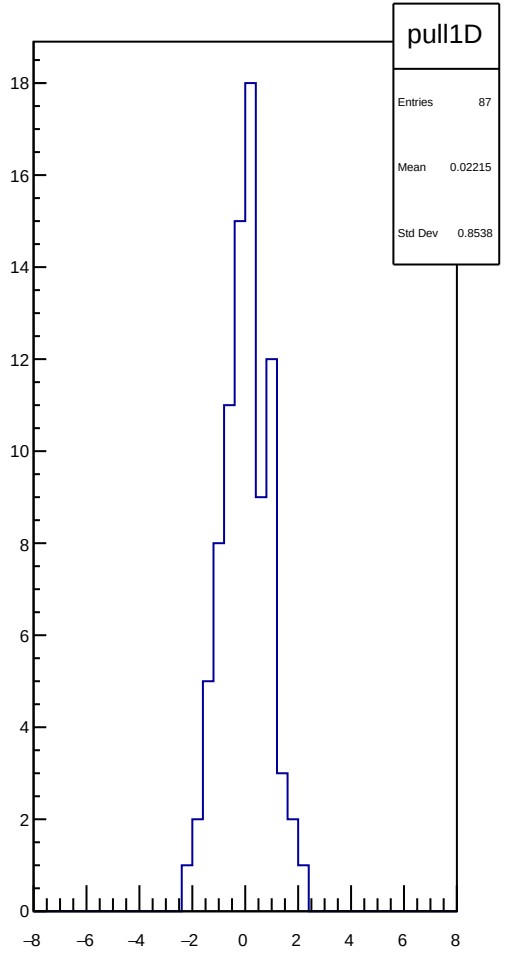


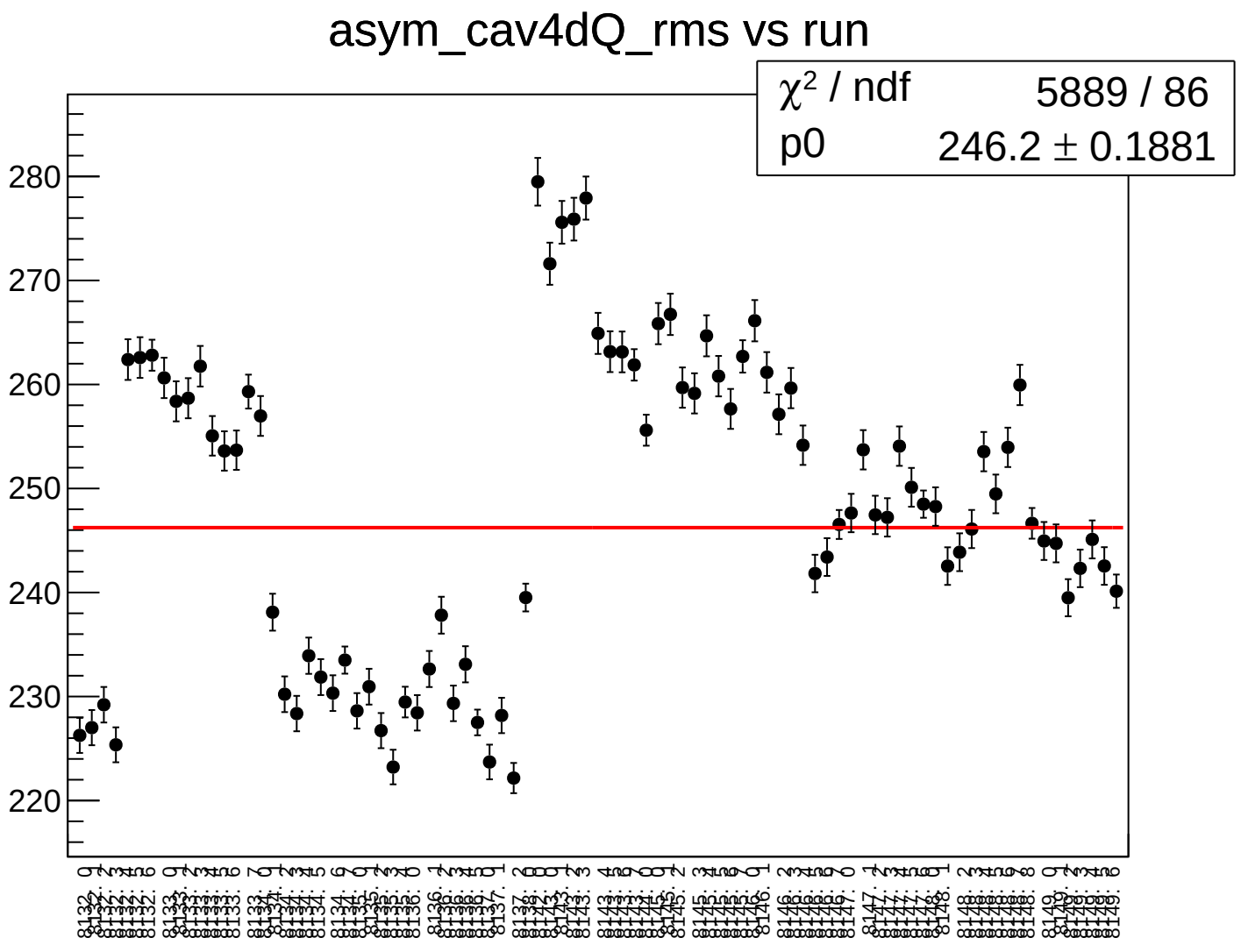

asym_cav4cQ_mean vs run
χ² / ndf 24.19 / 86
p0 −475.7 ± 172.9
pull
Entries 87
Mean 110.7
Std Dev 66.4

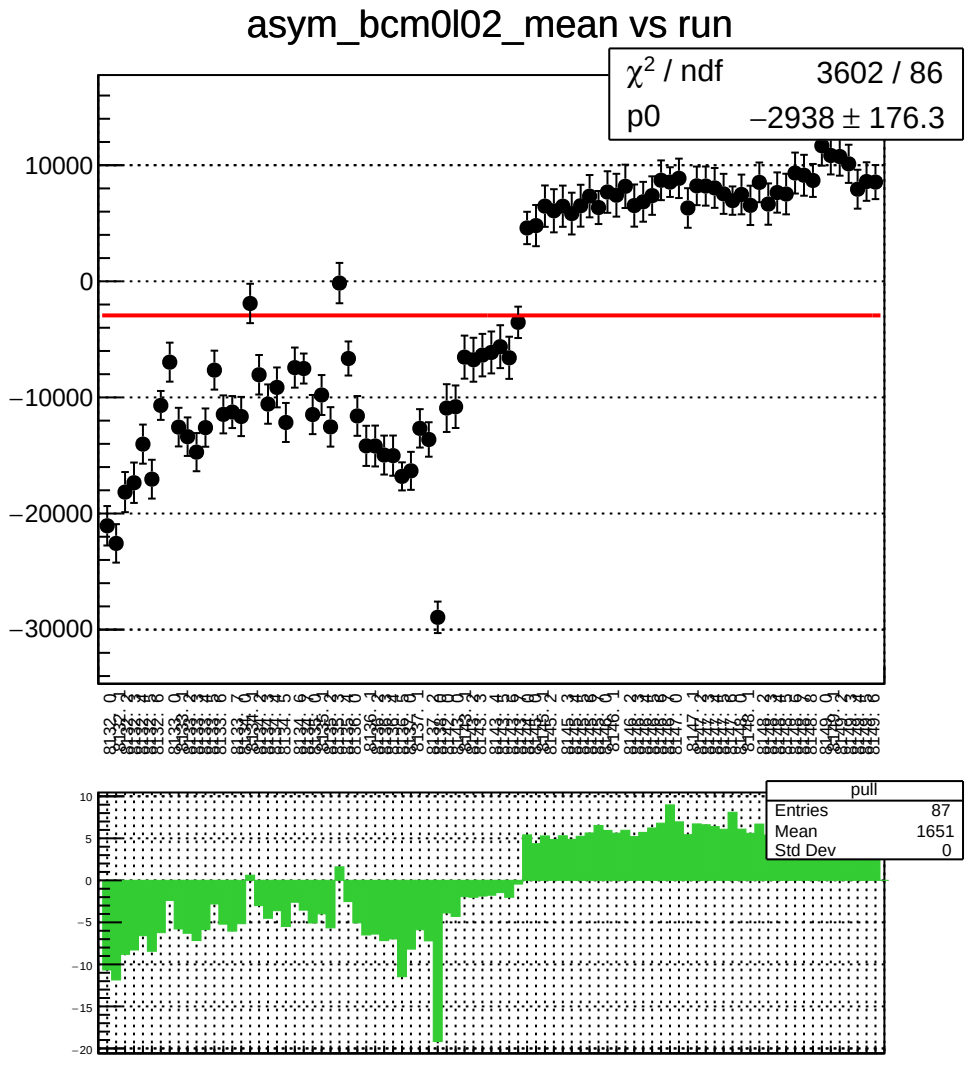

pull1D
Entries 87
Mean 0.002441
Std Dev 0.5273

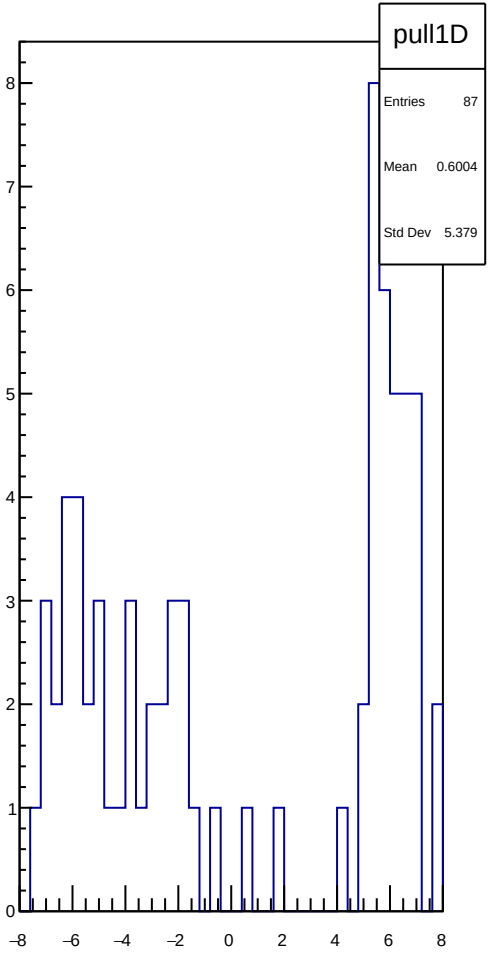

asym_cav4cQ_rms vs run
χ² / ndf 7566 / 86
p0 159.9 ± 0.1223
190
180
170
160
150
140

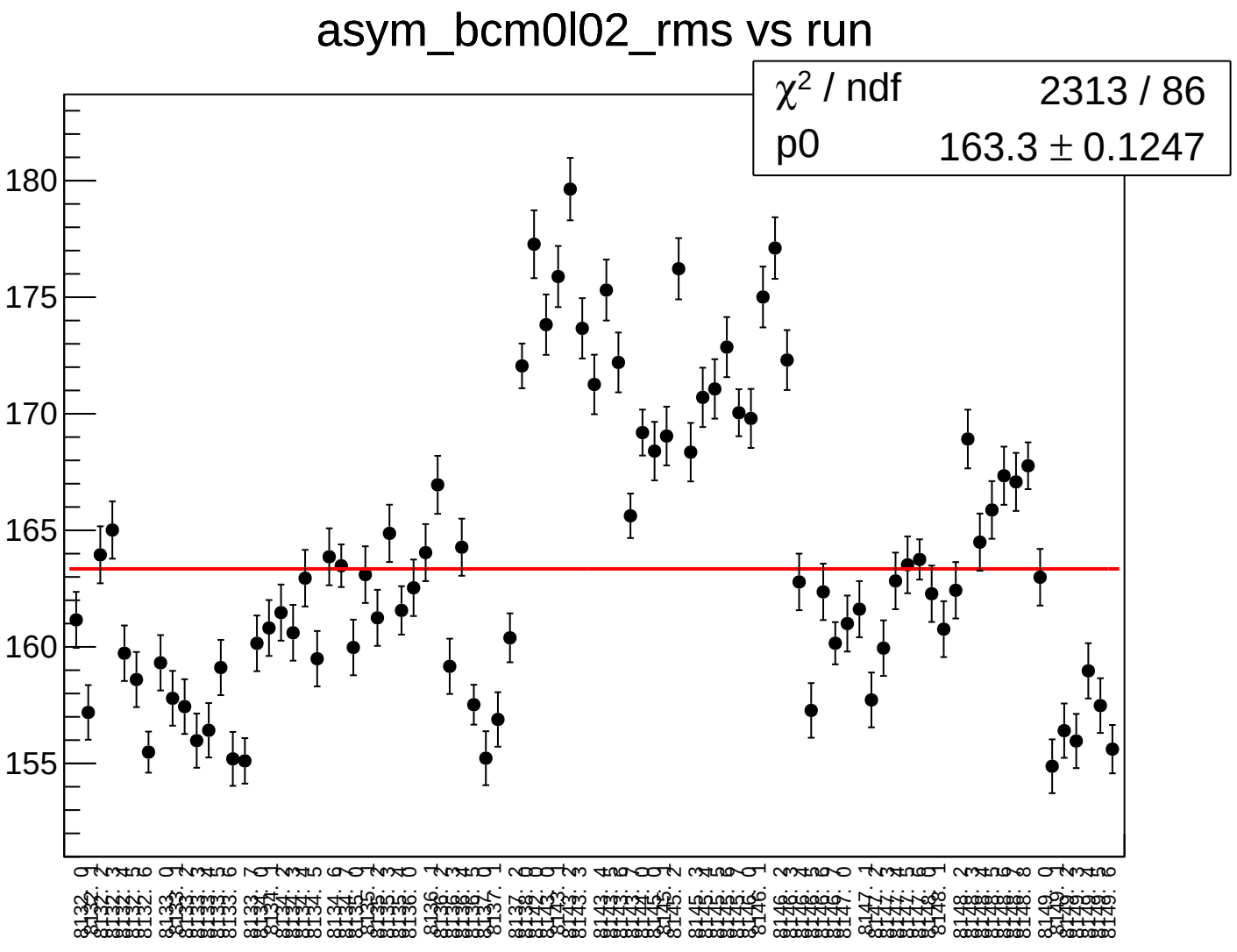

asym_cav4dQ_mean vs run
χ² / ndf 63.47 / 86
p0 −292.6 ± 266.1
pull
Entries 87
Mean 118.4
Std Dev 0

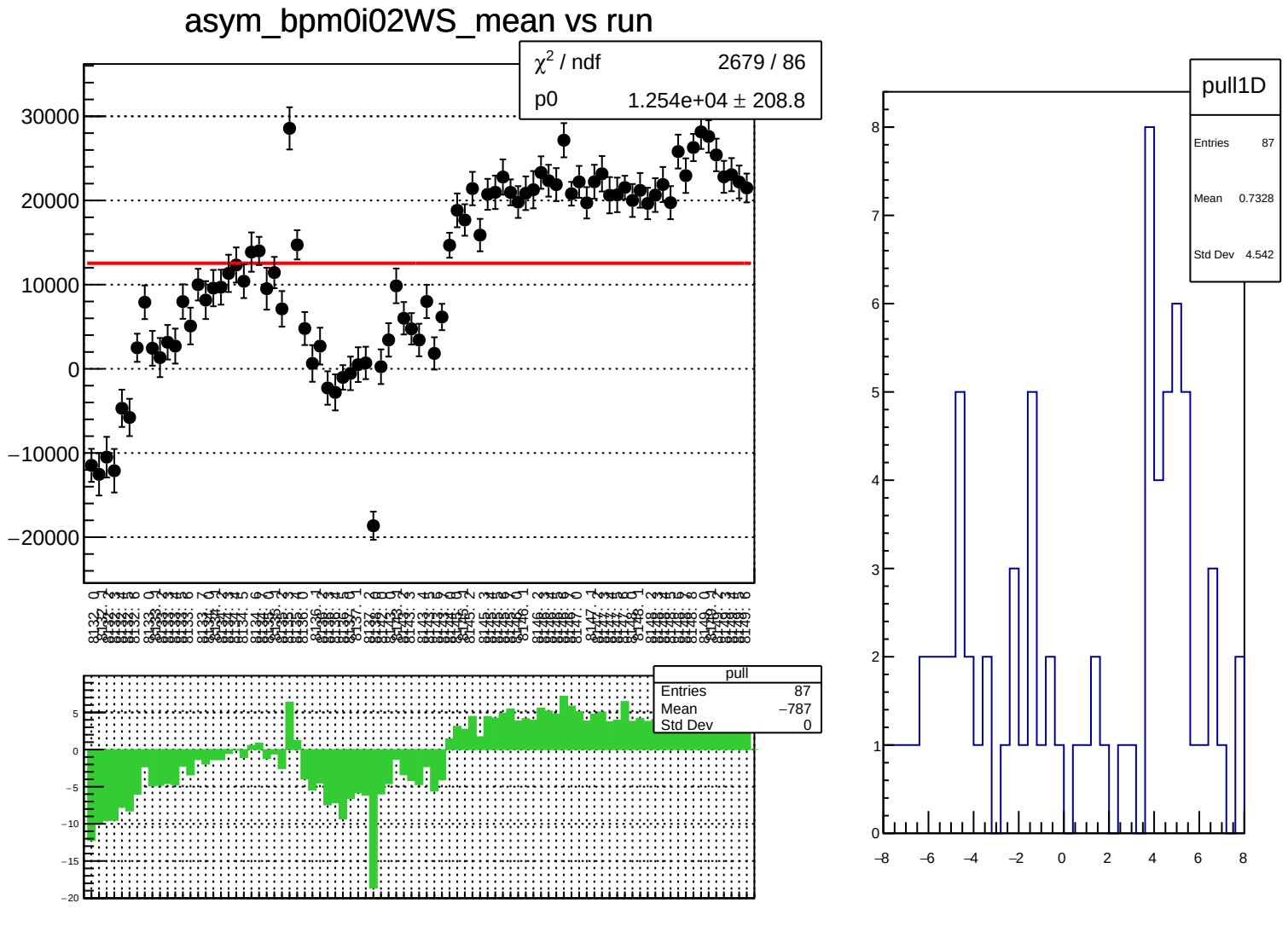

pull1D
Entries 87
Mean 0.02215
Std Dev 0.8538

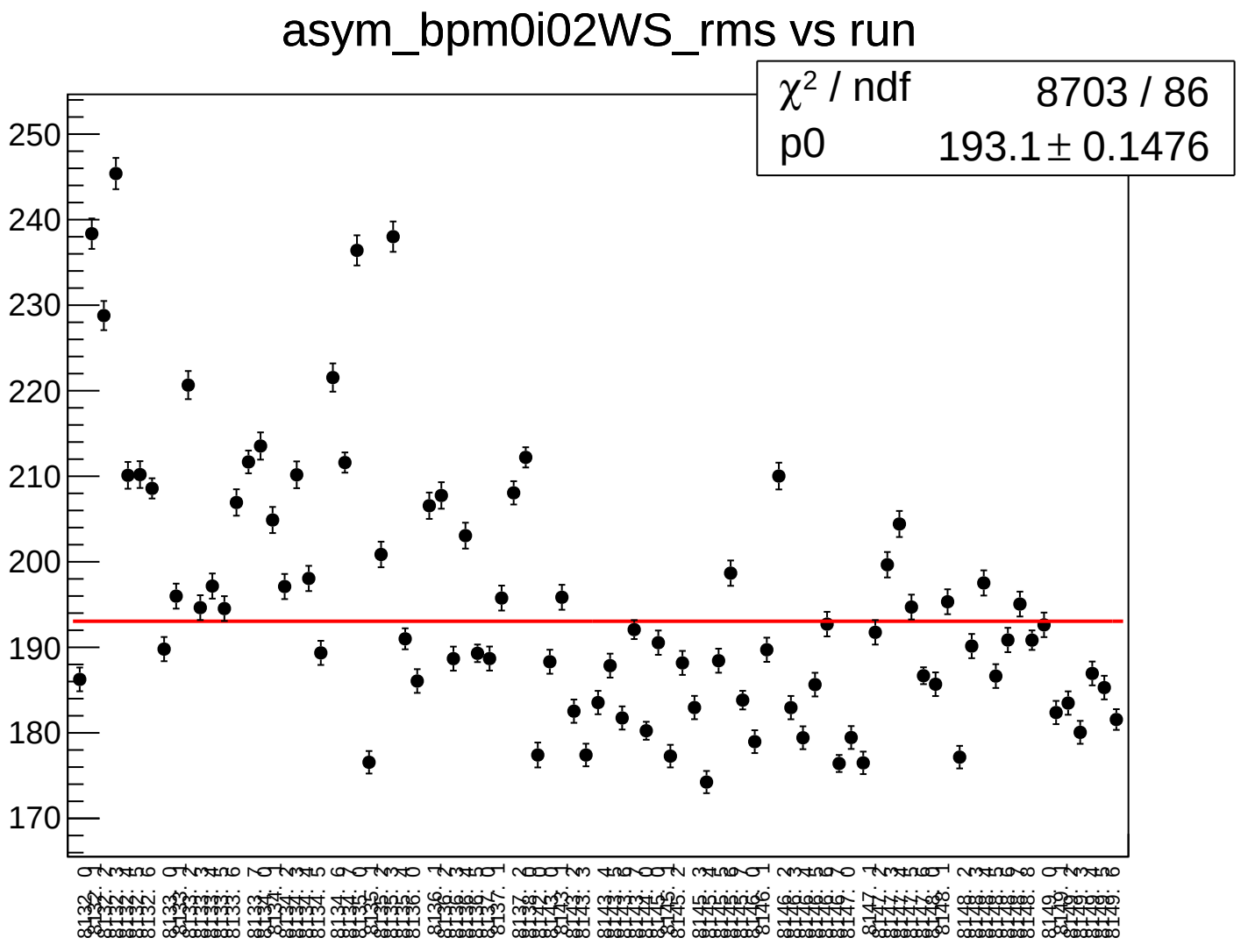

asym_cav4dQ_rms vs run
χ² / ndf 5889 / 86
p0 246.2 ± 0.1881
280
270
260
250
240
230
220

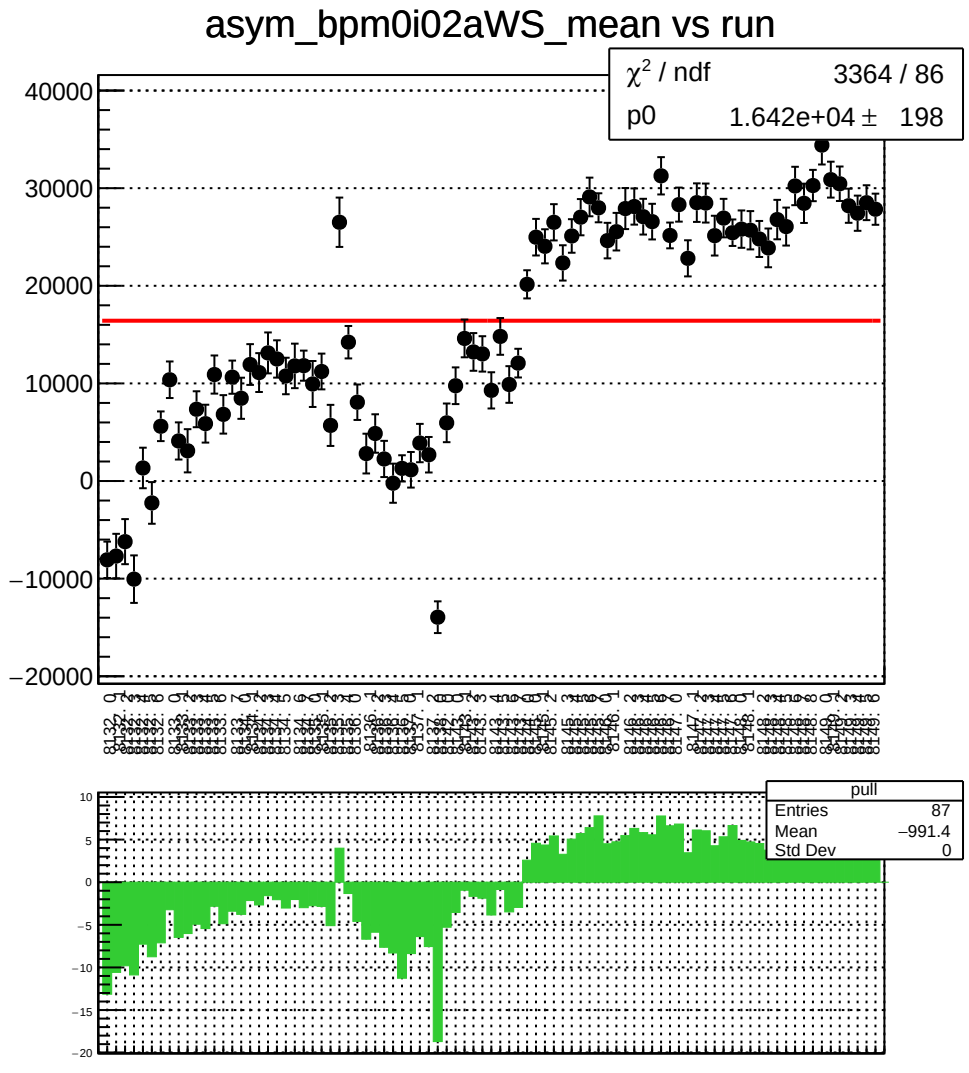

asym_bcm0l02_mean vs run
χ² / ndf 3602 / 86
p0 −2938 ± 176.3
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean 1651
Std Dev 0
10
5
0
−5
−10
−15
−20

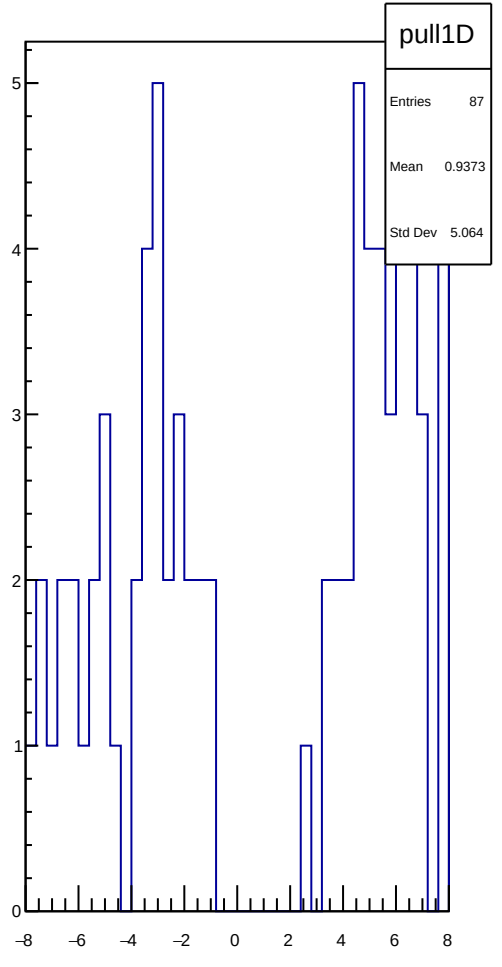

pull1D
Entries 87
Mean 0.6004
Std Dev 5.379
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

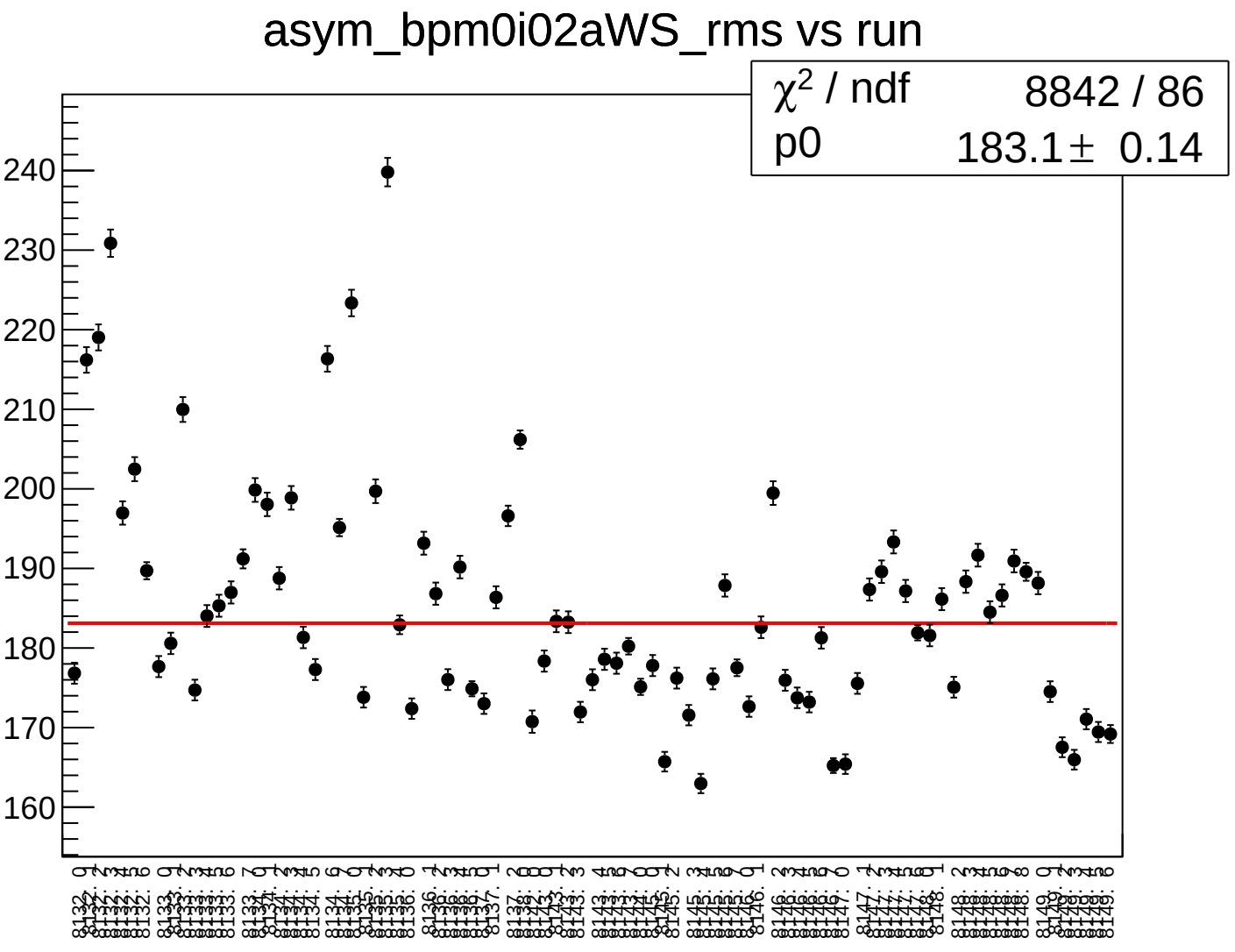

asym_bcm0l02_rms vs run
χ^2 / ndf 2313 / 86
p0 163.3 ± 0.1247
180
175
170
165
160
155

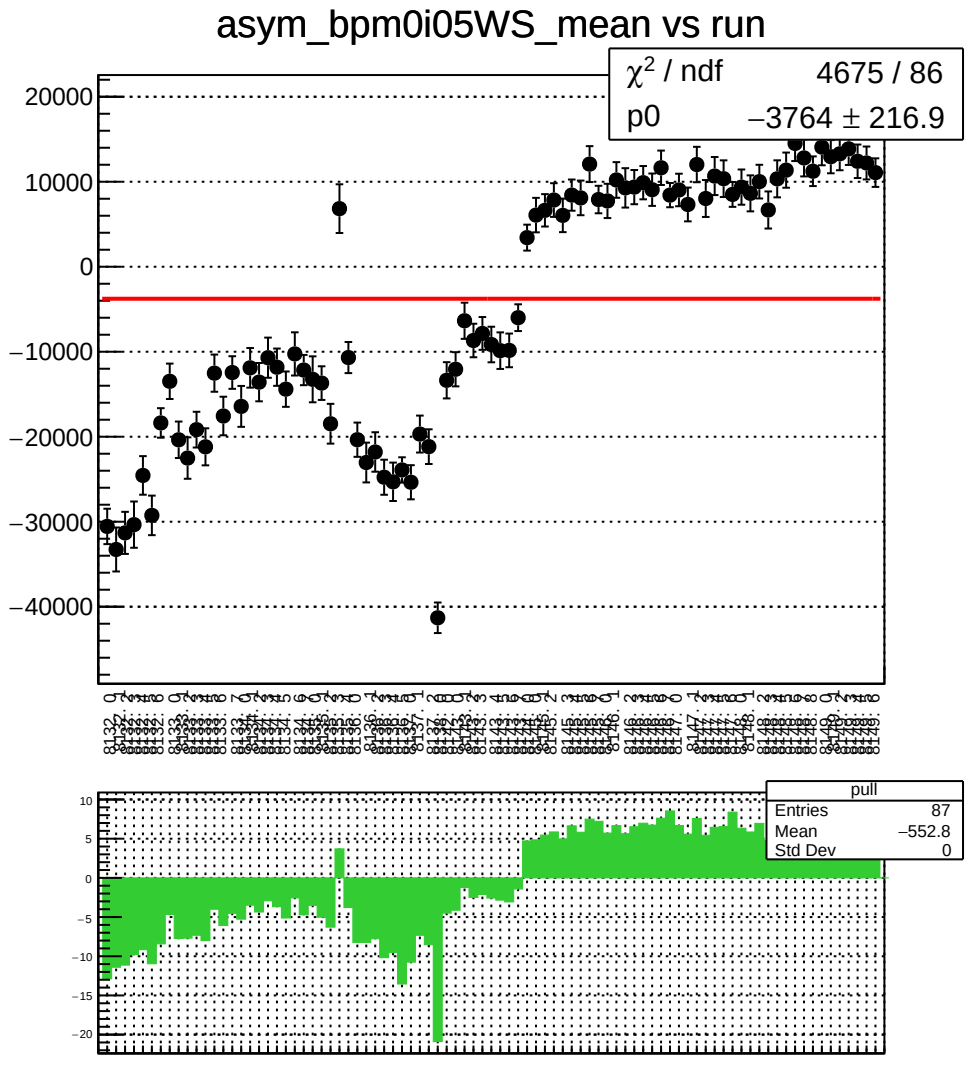

asym_bpm0i02WS_mean vs run
χ² / ndf 2679 / 86
p0 1.254e+04 ± 208.8
30000
20000
10000
0
−10000
−20000
pull
Entries 87
Mean −787
Std Dev 0
5
0
−5
−10
−15
−20
pull1D
Entries 87
Mean 0.7328
Std Dev 4.542
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

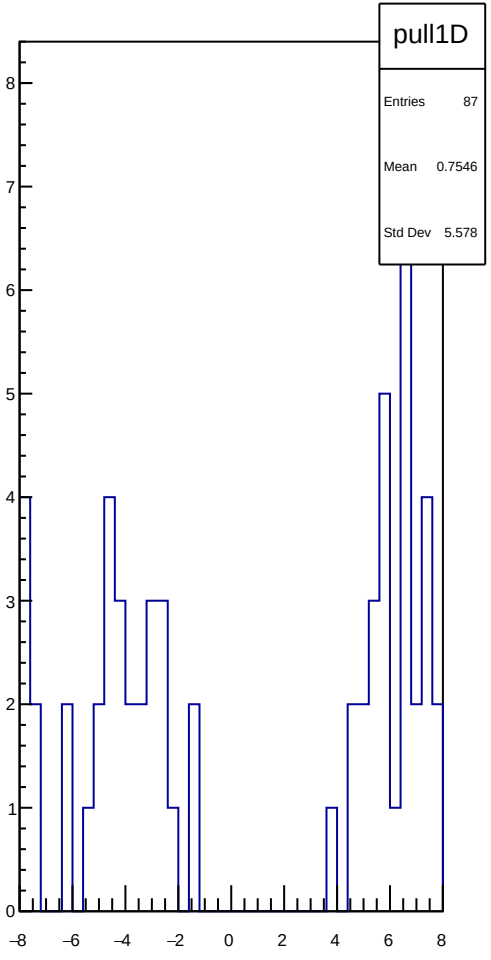

asym_bpm0i02WS_rms vs run
χ² / ndf 8703 / 86
p0 193.1 ± 0.1476
250
240
230
220
210
200
190
180
170

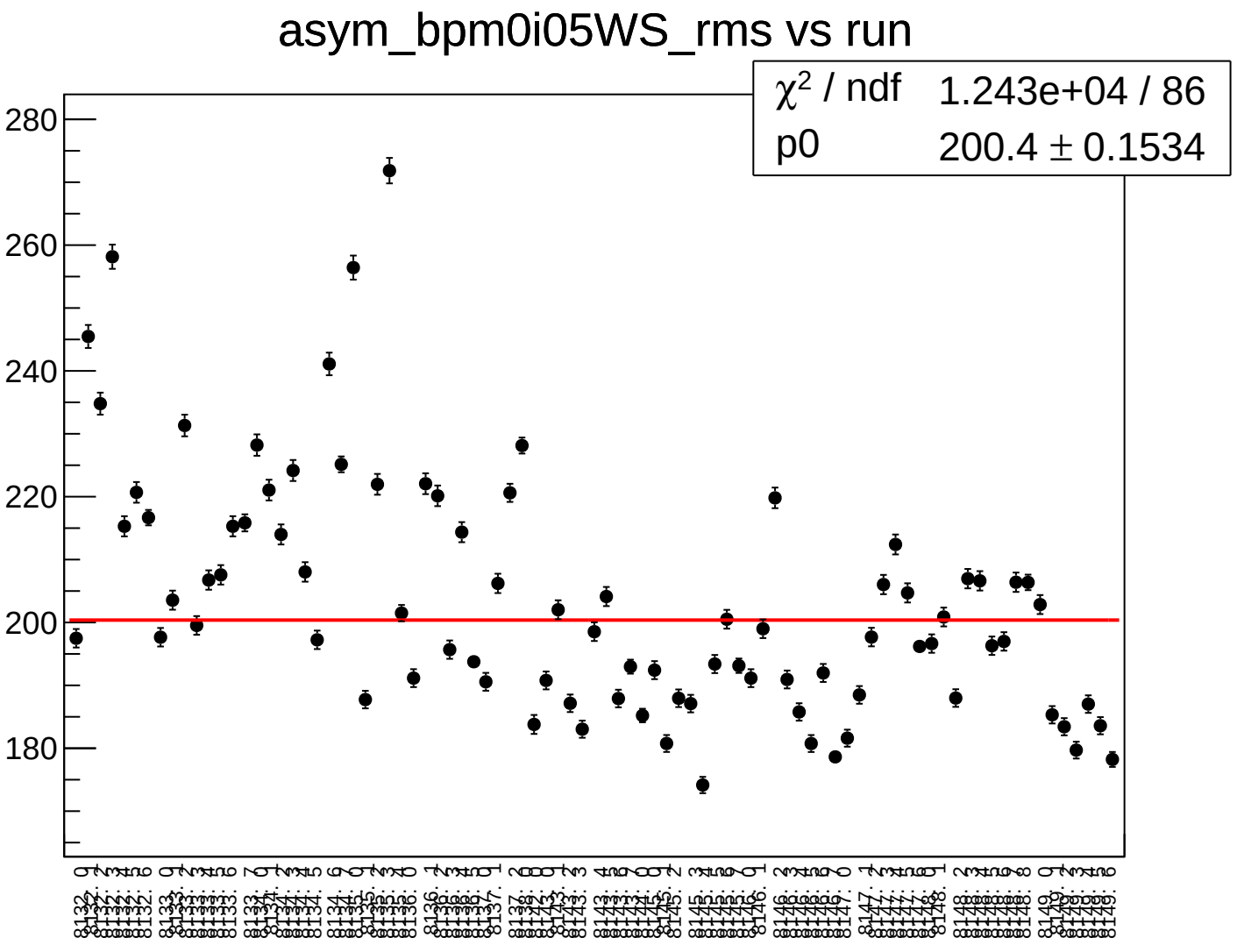

asym_bpm0i02aWS_mean vs run
χ² / ndf 3364 / 86
p0 1.642e+04 ± 198
pull
Entries 87
Mean −991.4
Std Dev 0

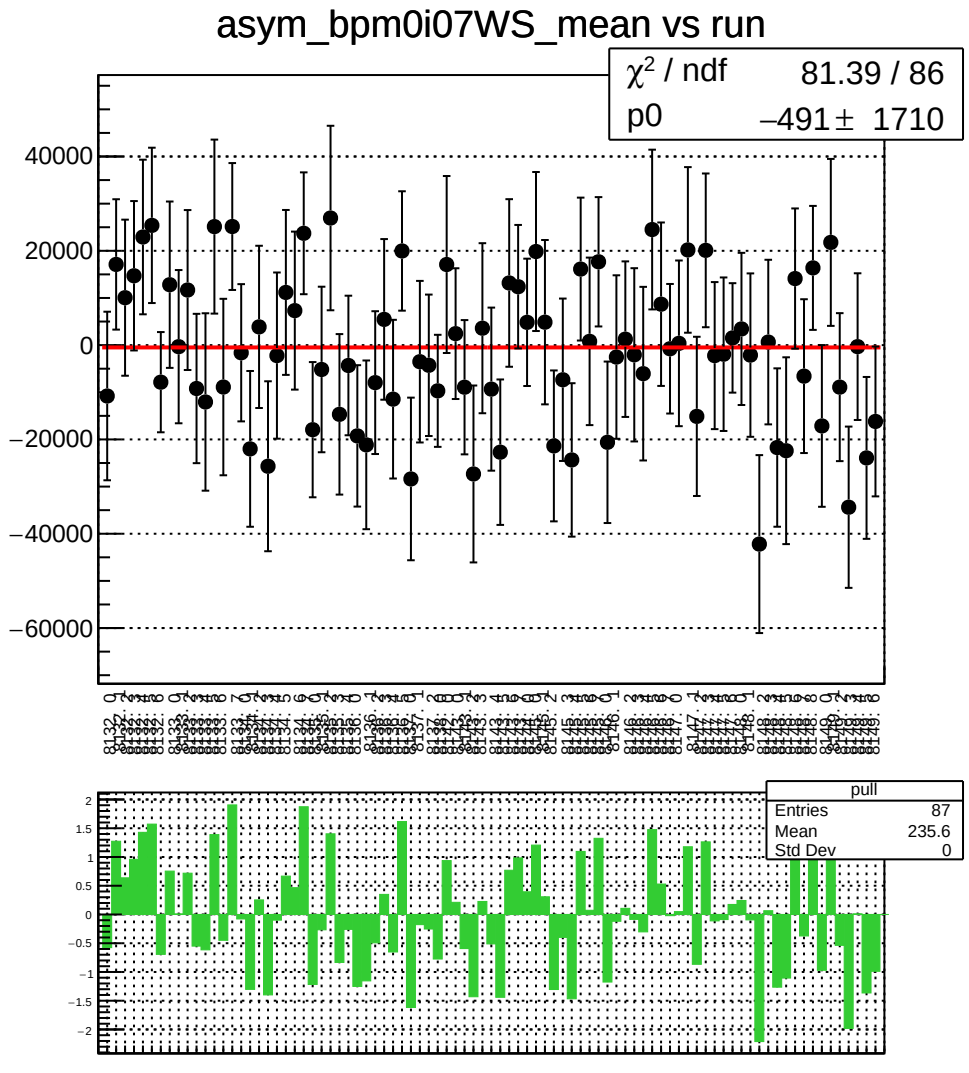

pull1D
Entries 87
Mean 0.9373
Std Dev 5.064

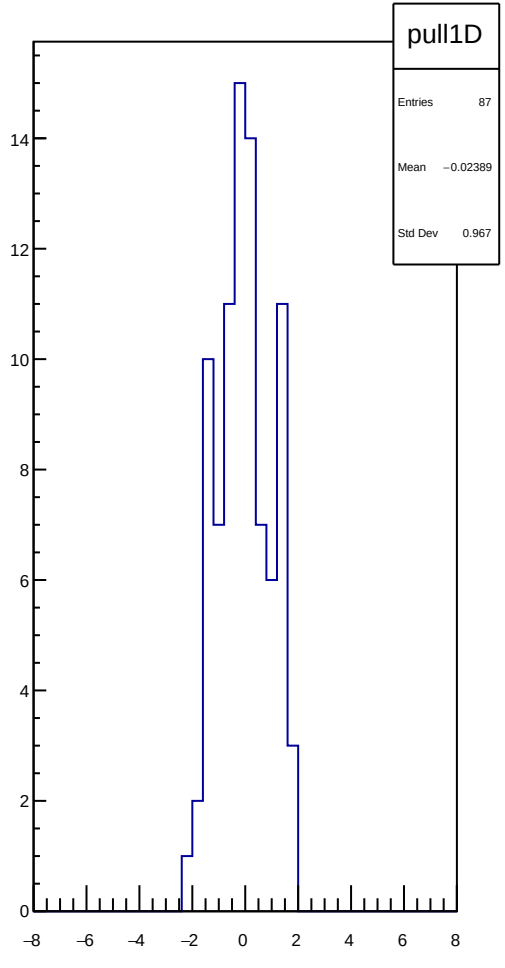

asym_bpm0i02aWS_rms vs run
χ² / ndf 8842 / 86
p0 183.1 ± 0.14
240
230
220
210
200
190
180
170
160

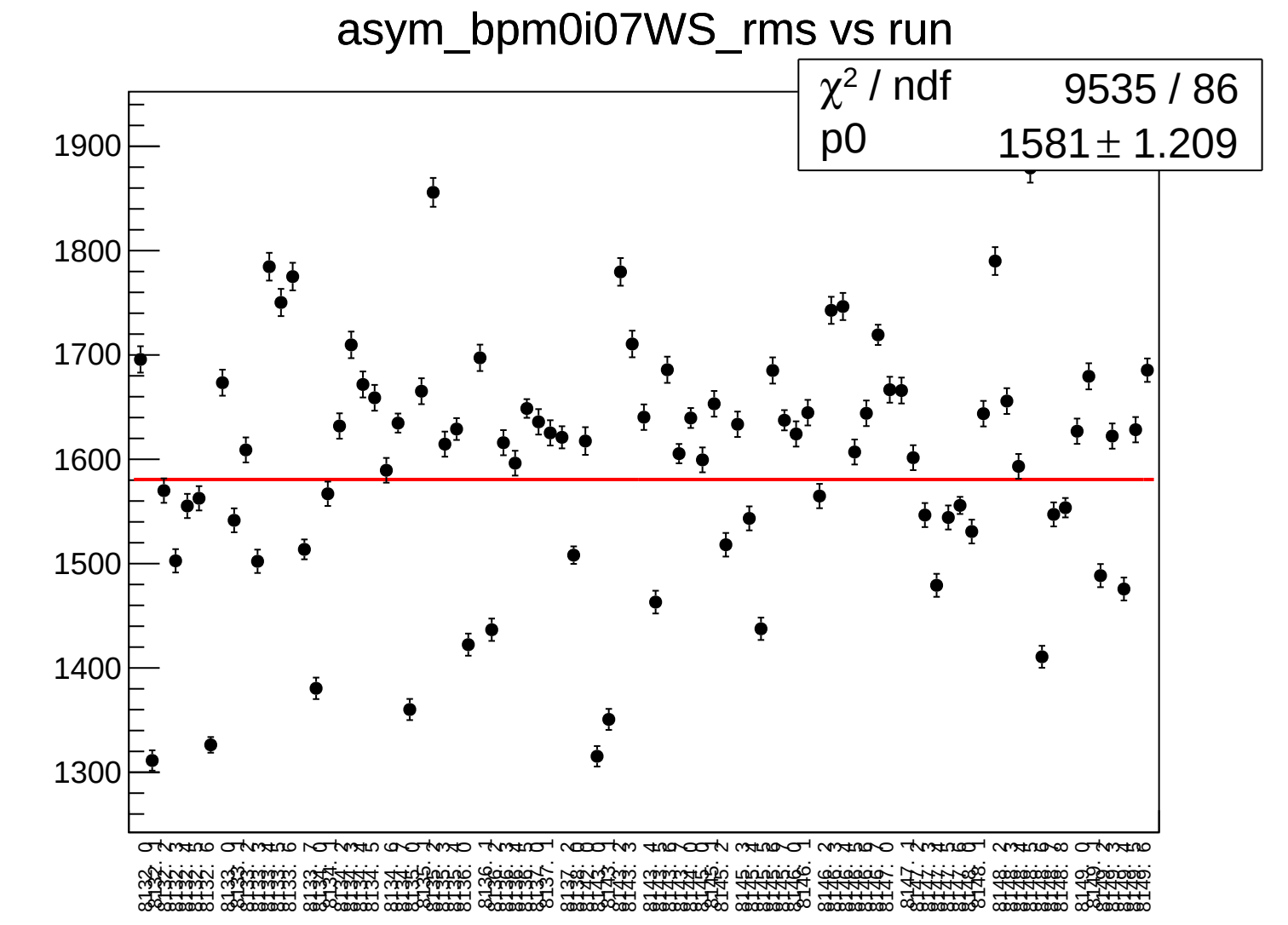

asym_bpm0i05WS_mean vs run
χ² / ndf 4675 / 86
p0 −3764 ± 216.9
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 87
Mean −552.8
Std Dev 0
10
5
0
−5
−10
−15
−20

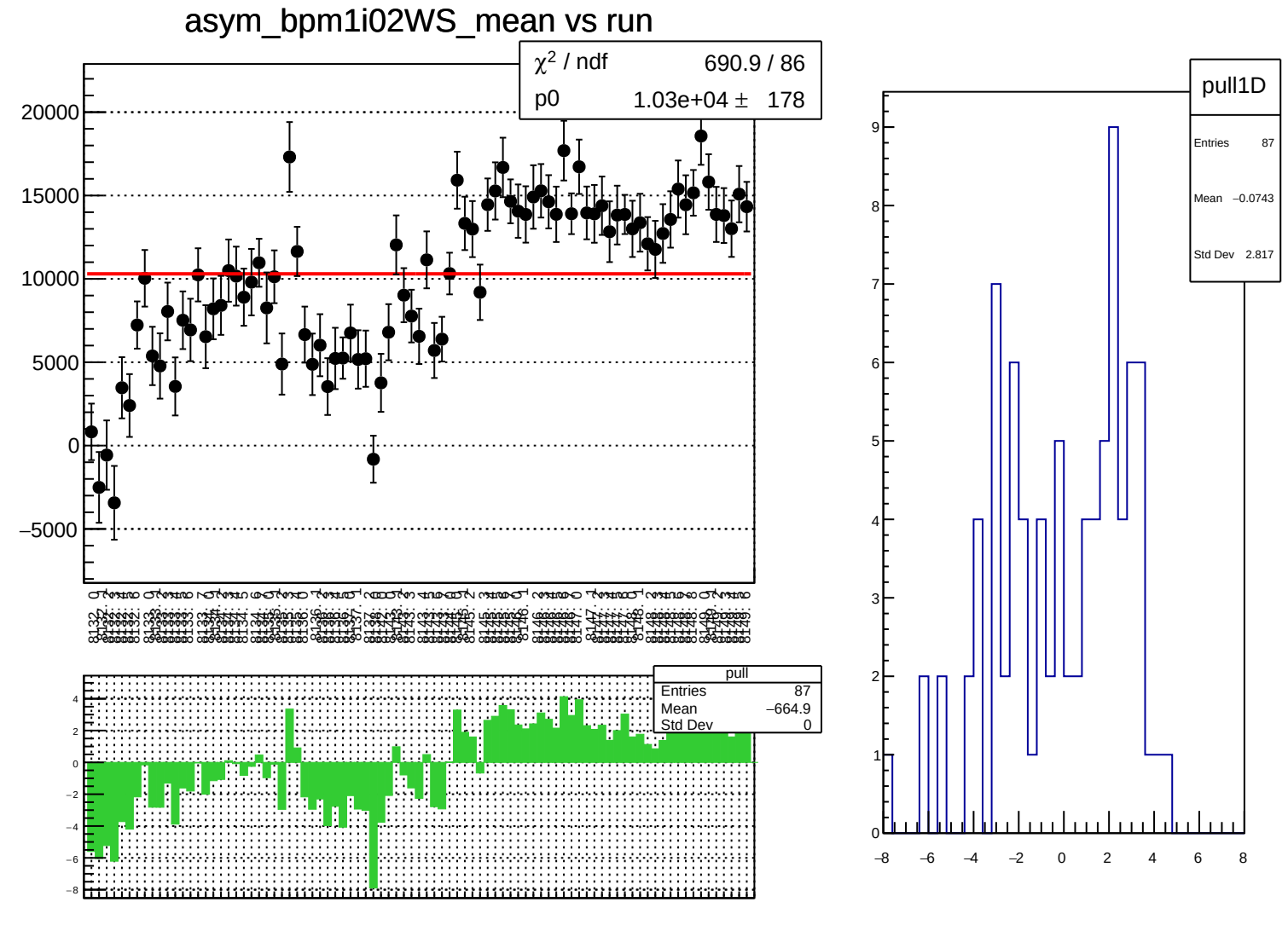

pull1D
Entries 87
Mean 0.7546
Std Dev 5.578
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

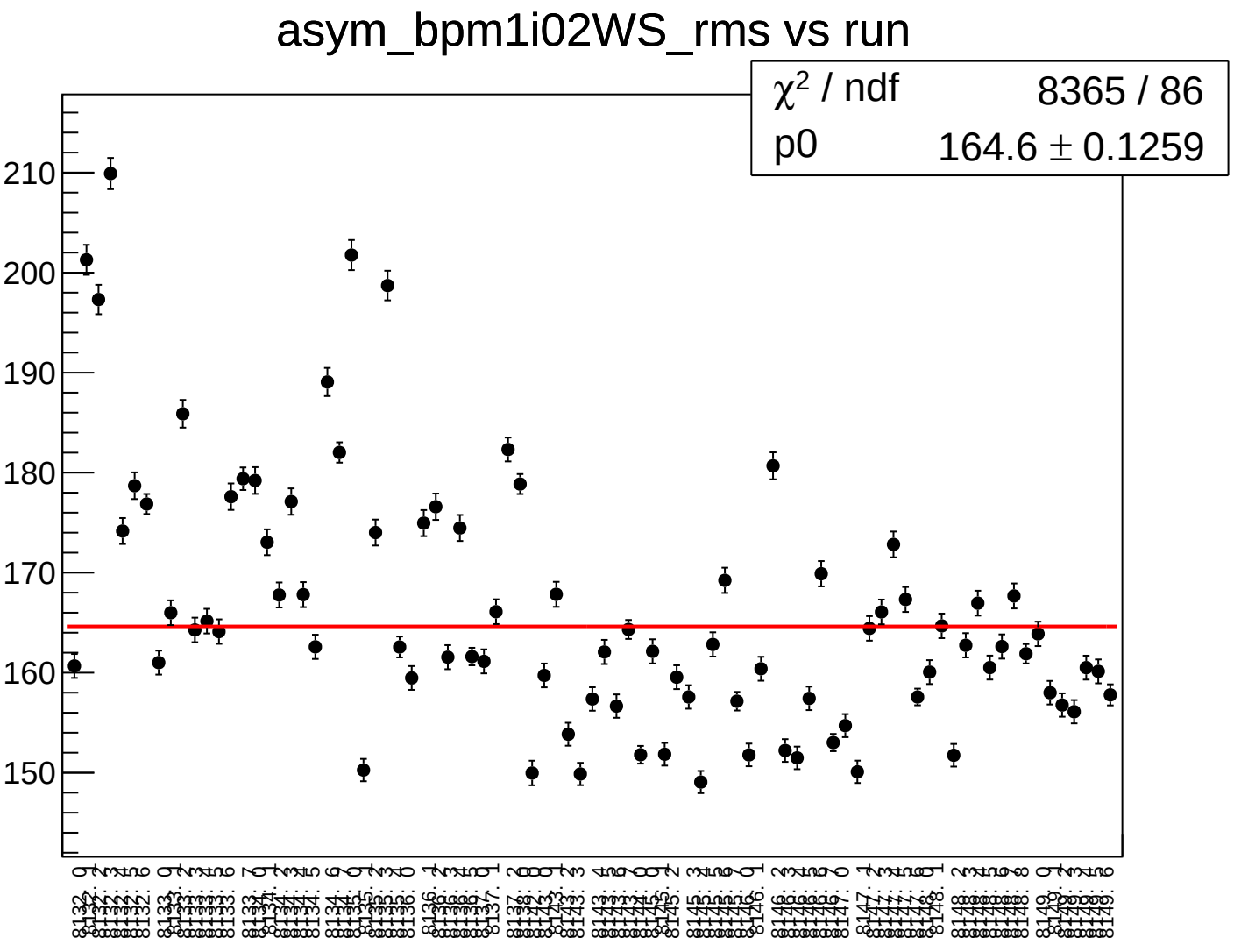

asym_bpm0i05WS_rms vs run
χ² / ndf 1.243e+04 / 86
p0 200.4 ± 0.1534
280
260
240
220
200
180

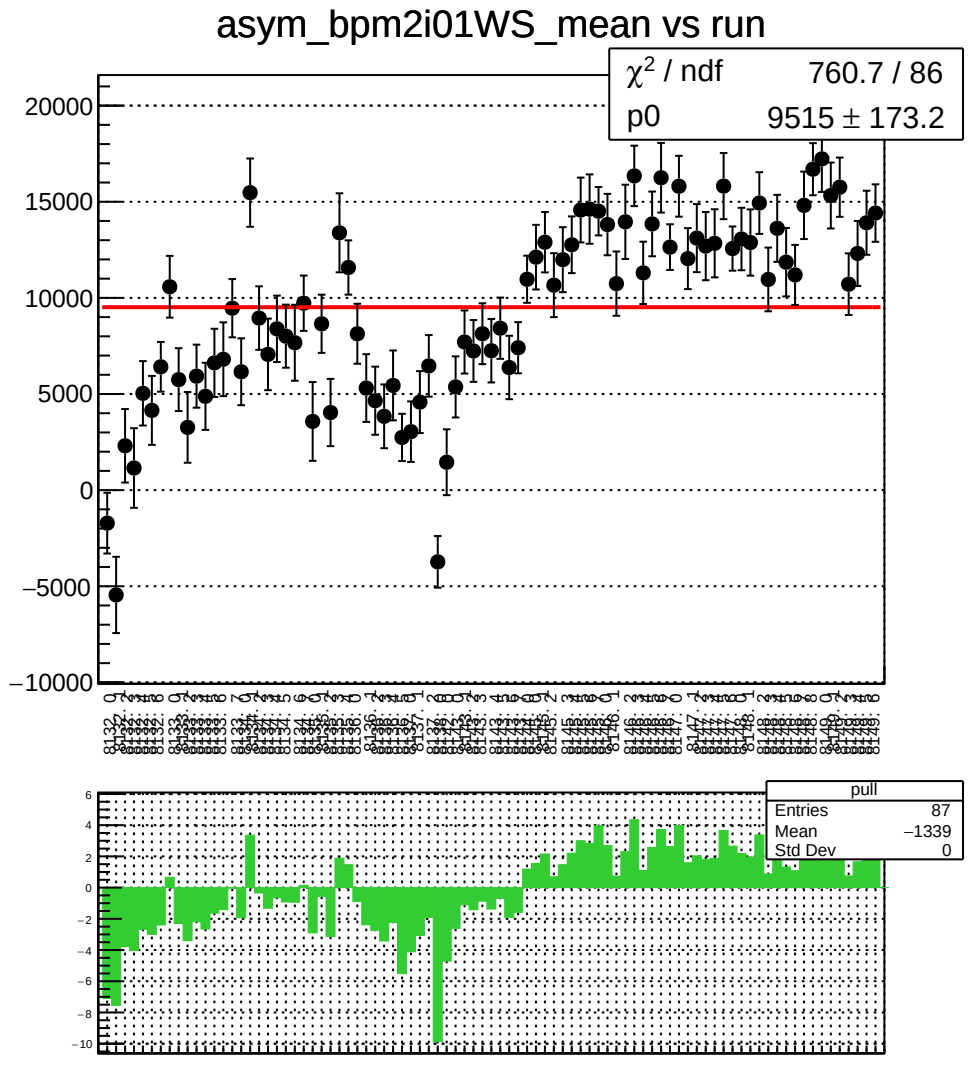

asym_bpm0i07WS_mean vs run
χ² / ndf 81.39 / 86
p0 −491 ± 1710
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 235.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

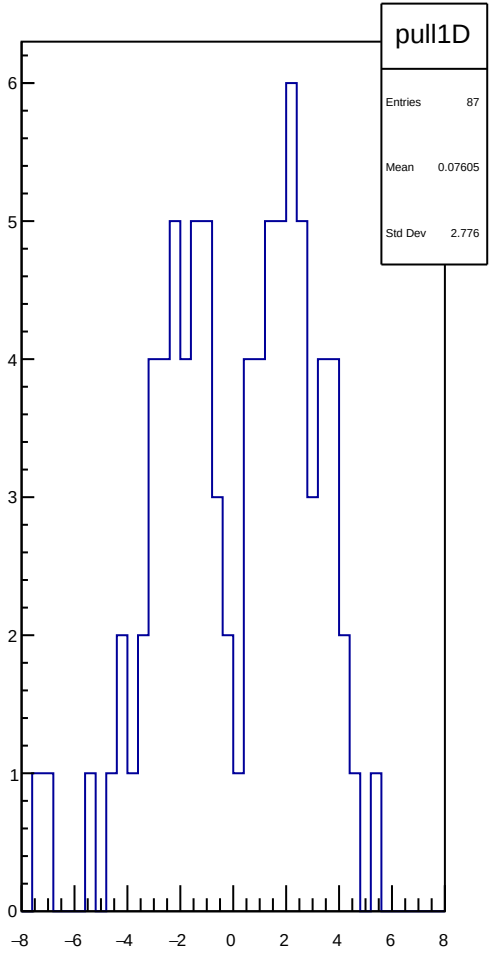

pull1D
Entries 87
Mean −0.02389
Std Dev 0.967
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

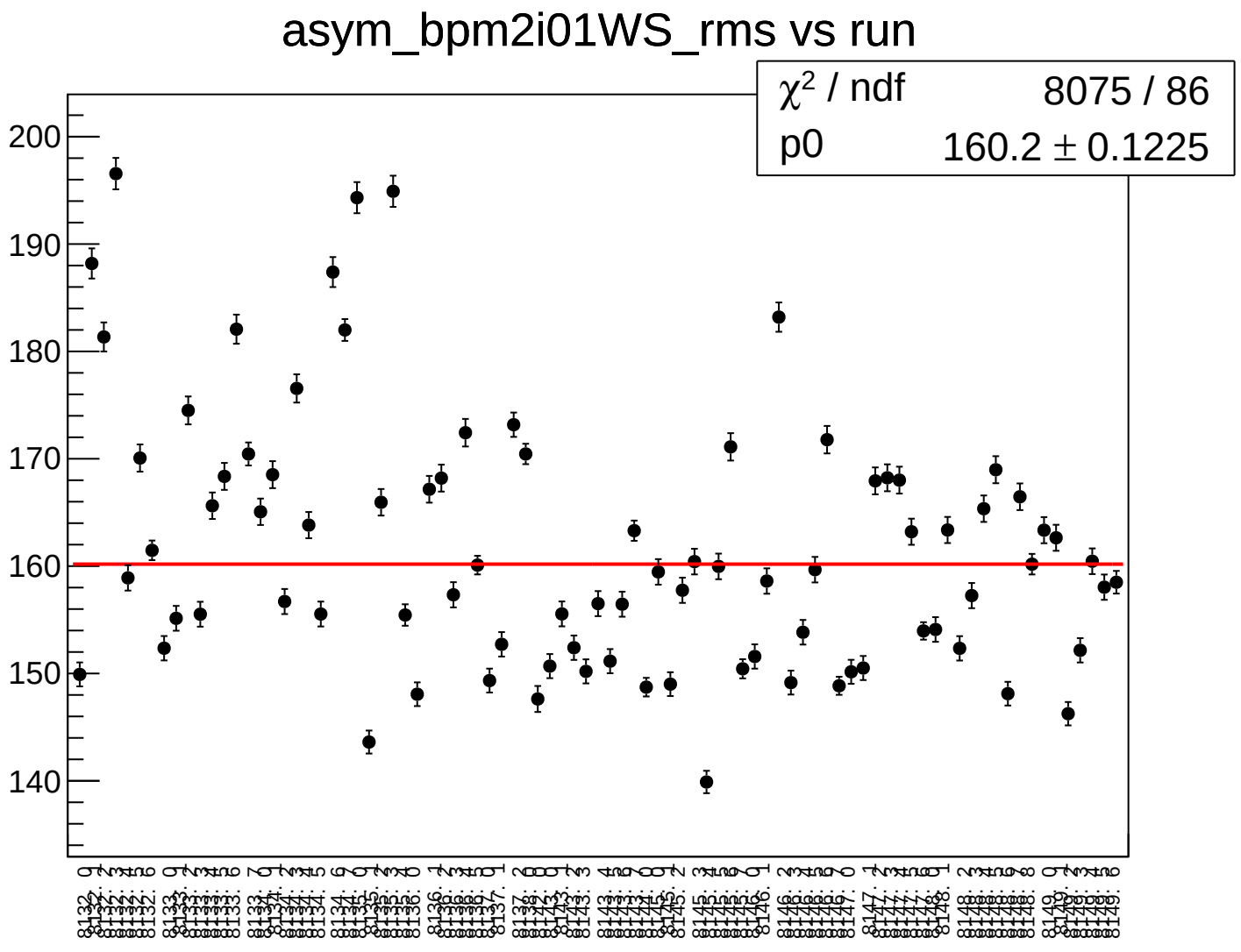

asym_bpm0i07WS_rms vs run
χ² / ndf 9535 / 86
p0 1581 ± 1.209
1900
1800
1700
1600
1500
1400
1300

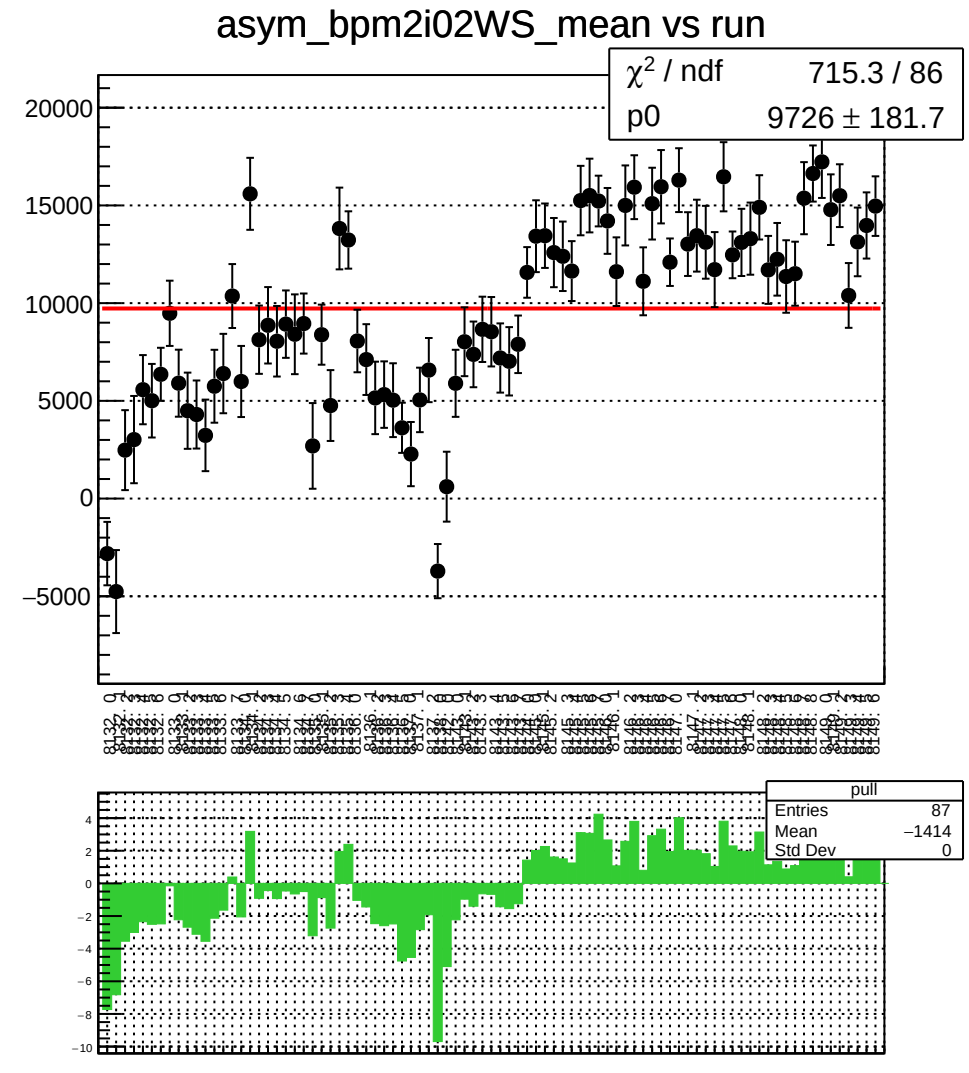

asym_bpm1i02WS_mean vs run
χ² / ndf 690.9 / 86
p0 1.03e+04 ± 178
pull
Entries 87
Mean −664.9
Std Dev 0
pull1D
Entries 87
Mean −0.0743
Std Dev 2.817

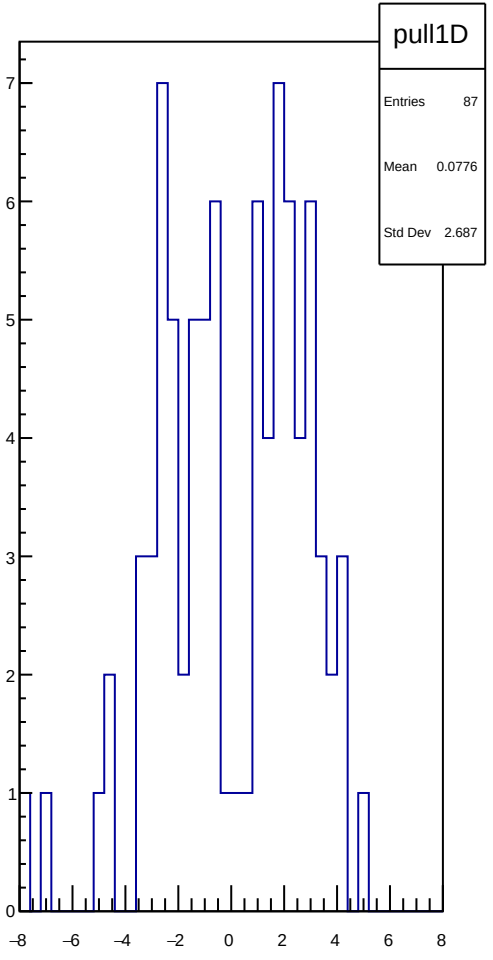

asym_bpm1i02WS_rms vs run
χ² / ndf 8365 / 86
p0 164.6 ± 0.1259
210
200
190
180
170
160
150

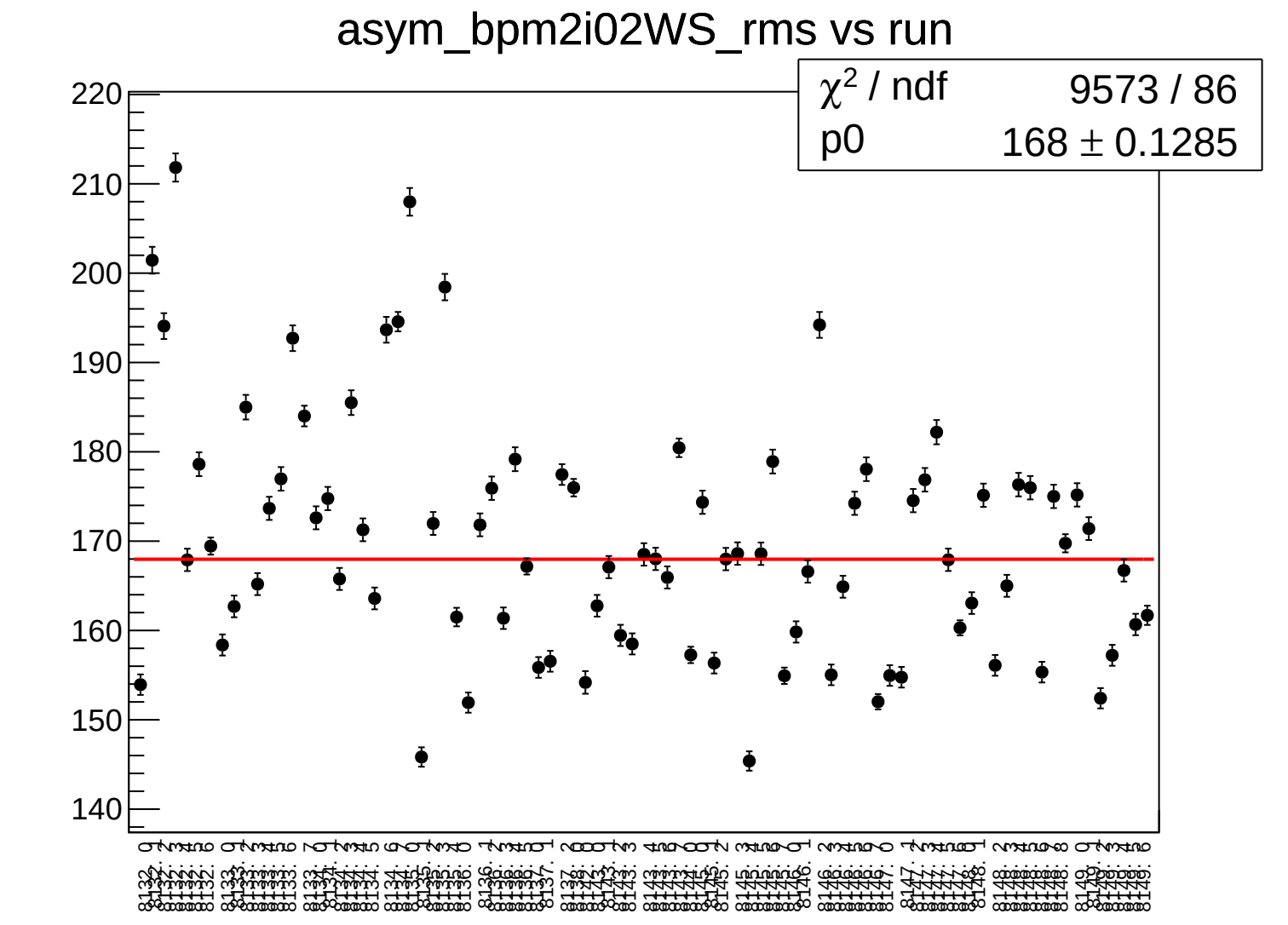

asym_bpm2i01WS_mean vs run
χ² / ndf 760.7 / 86
p0 9515 ± 173.2
pull
Entries 87
Mean −1339
Std Dev 0

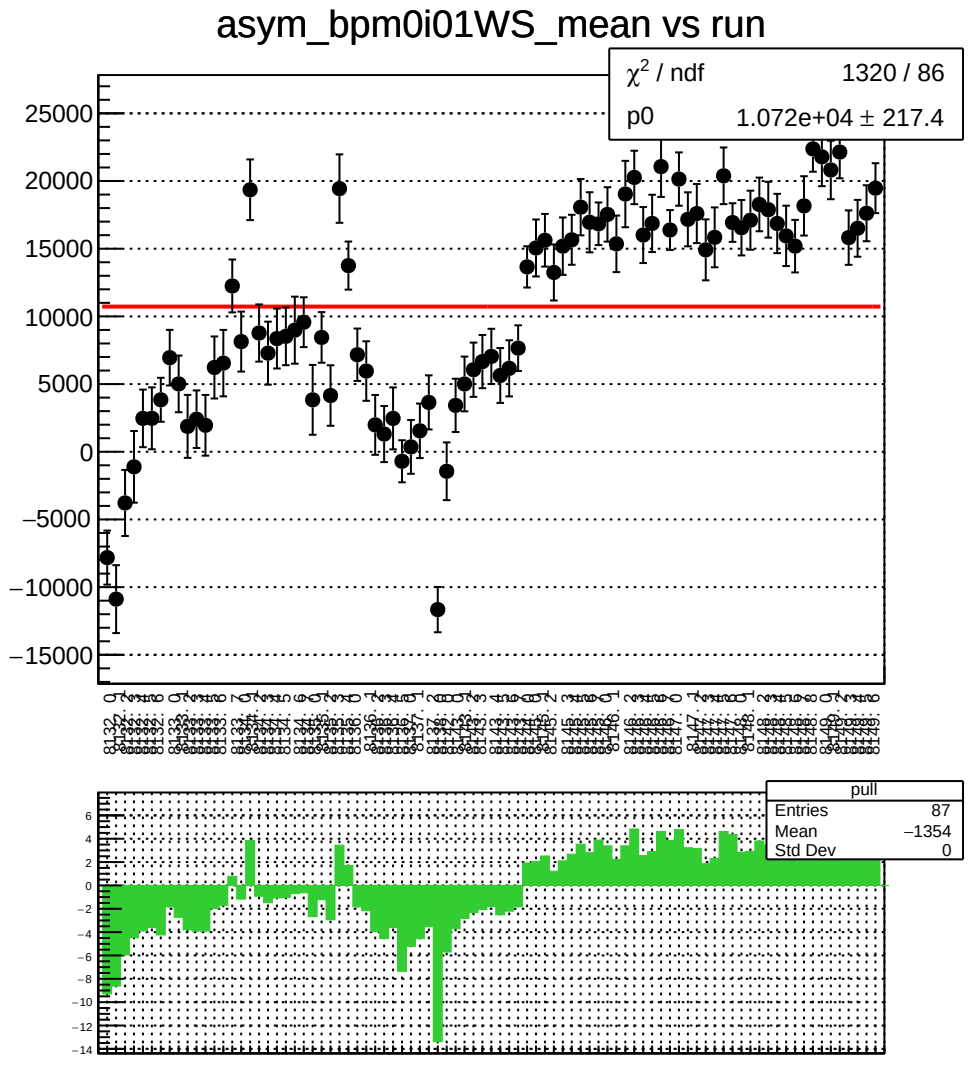

pull1D
Entries 87
Mean 0.07605
Std Dev 2.776

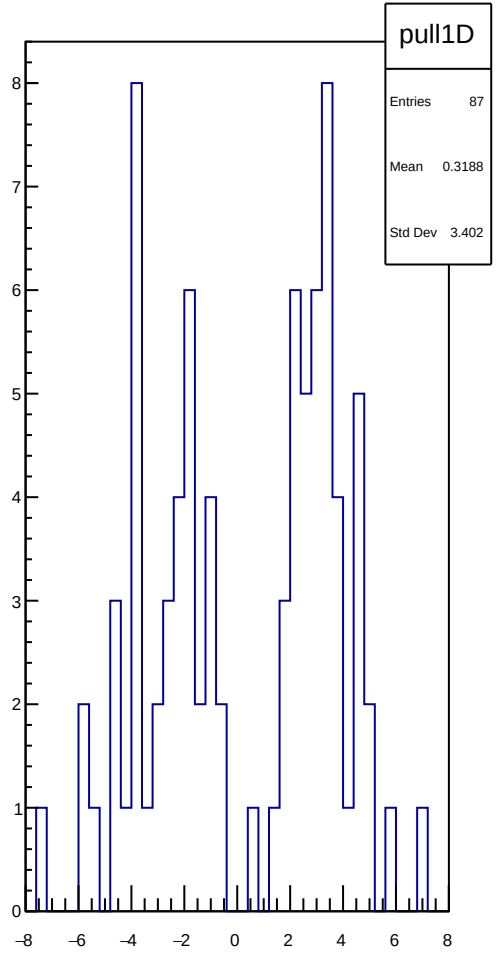

asym_bpm2i01WS_rms vs run
χ² / ndf 8075 / 86
p0 160.2 ± 0.1225
200
190
180
170
160
150
140

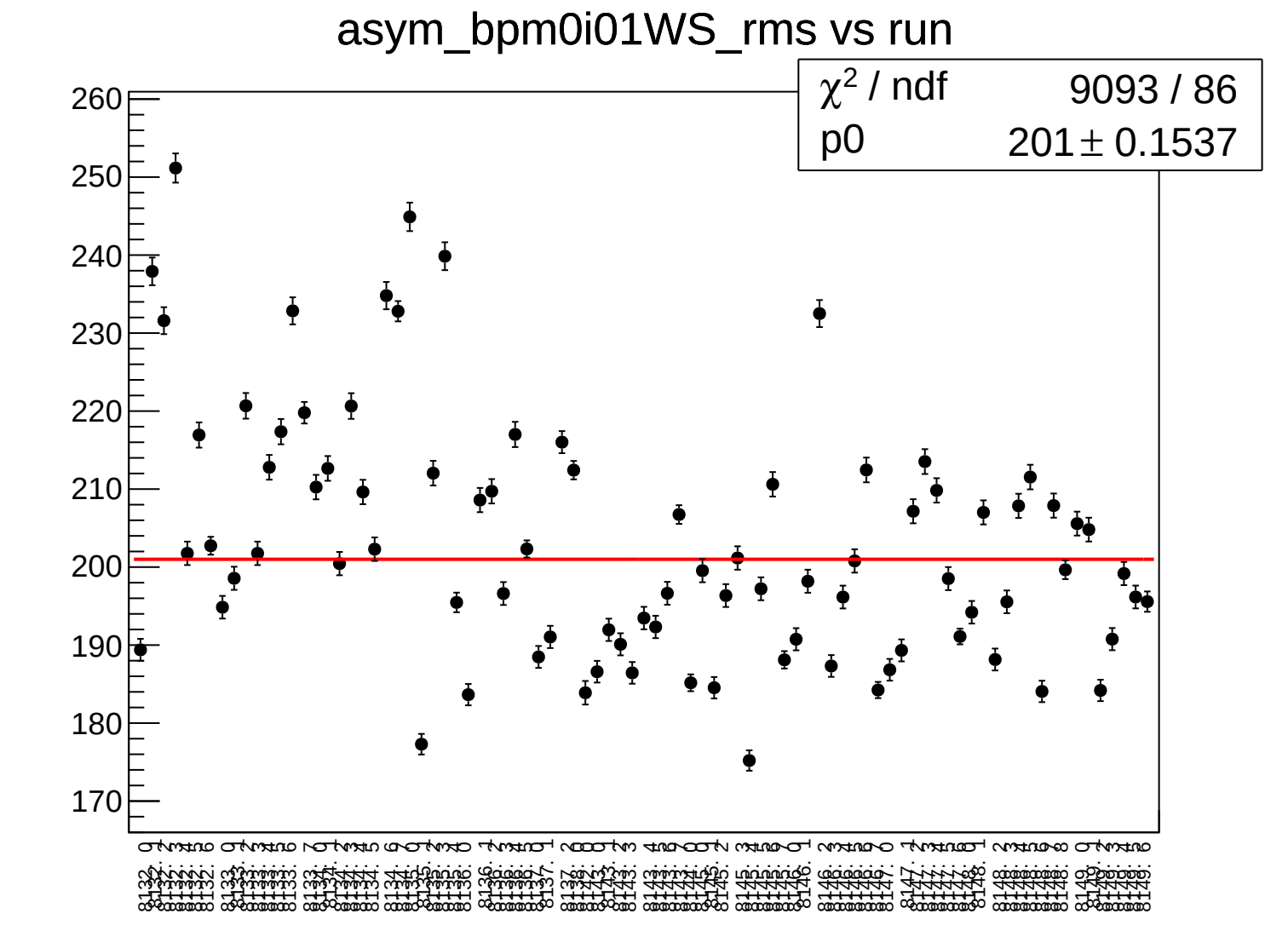

asym_bpm2i02WS_mean vs run
χ² / ndf 715.3 / 86
p0 9726 ± 181.7
pull
Entries 87
Mean −1414
Std Dev 0

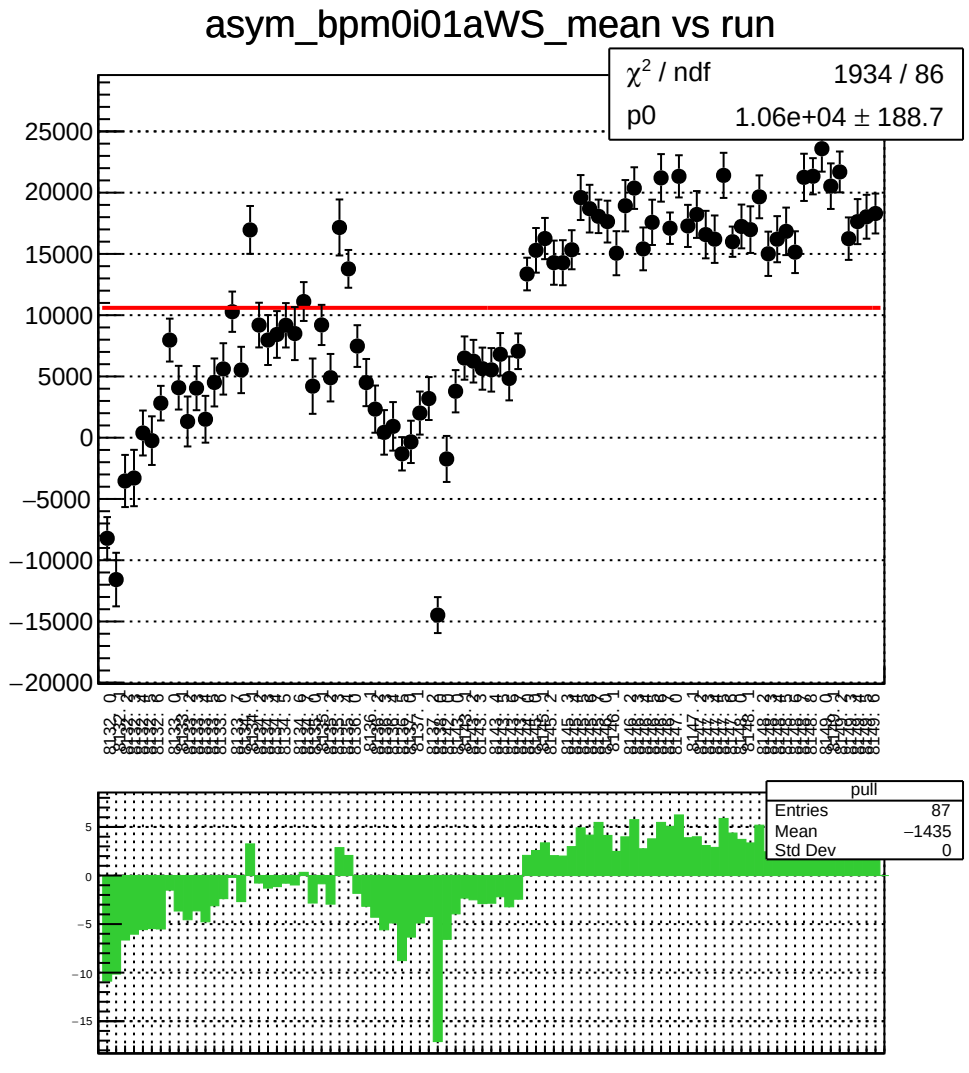

pull1D
Entries 87
Mean 0.0776
Std Dev 2.687

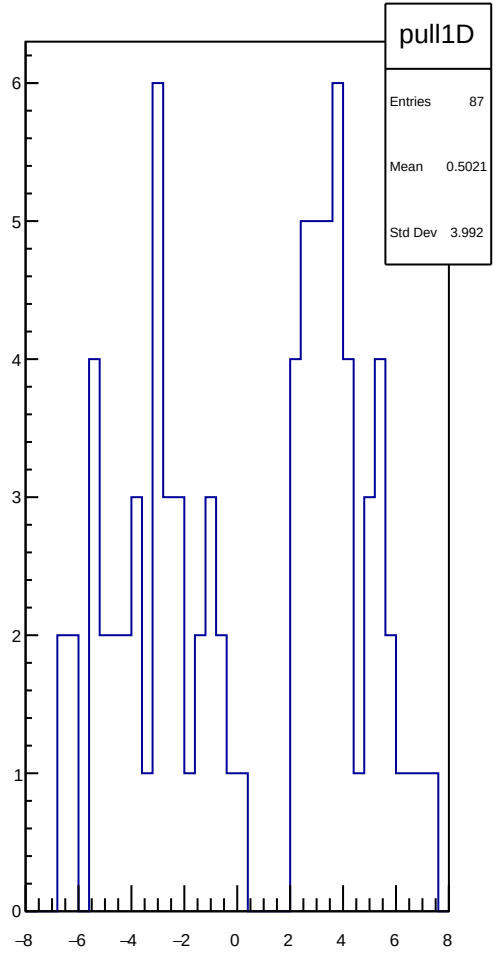

asym_bpm2i02WS_rms vs run
χ^2 / ndf 9573 / 86
p0 168 ± 0.1285
220
210
200
190
180
170
160
150
140

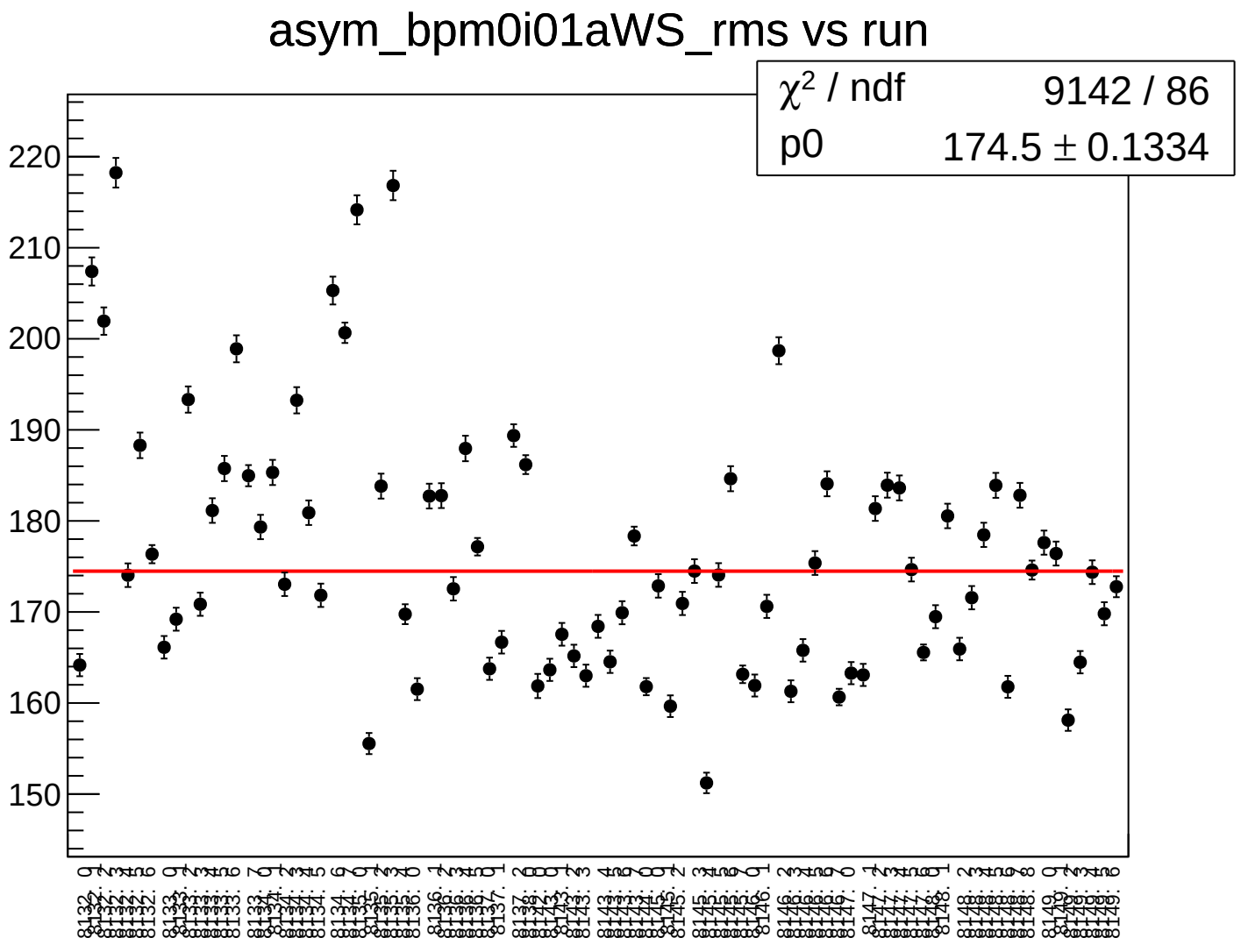

asym_bpm0i01WS_mean vs run
χ² / ndf 1320 / 86
p0 1.072e+04 ± 217.4
pull
Entries 87
Mean −1354
Std Dev 0

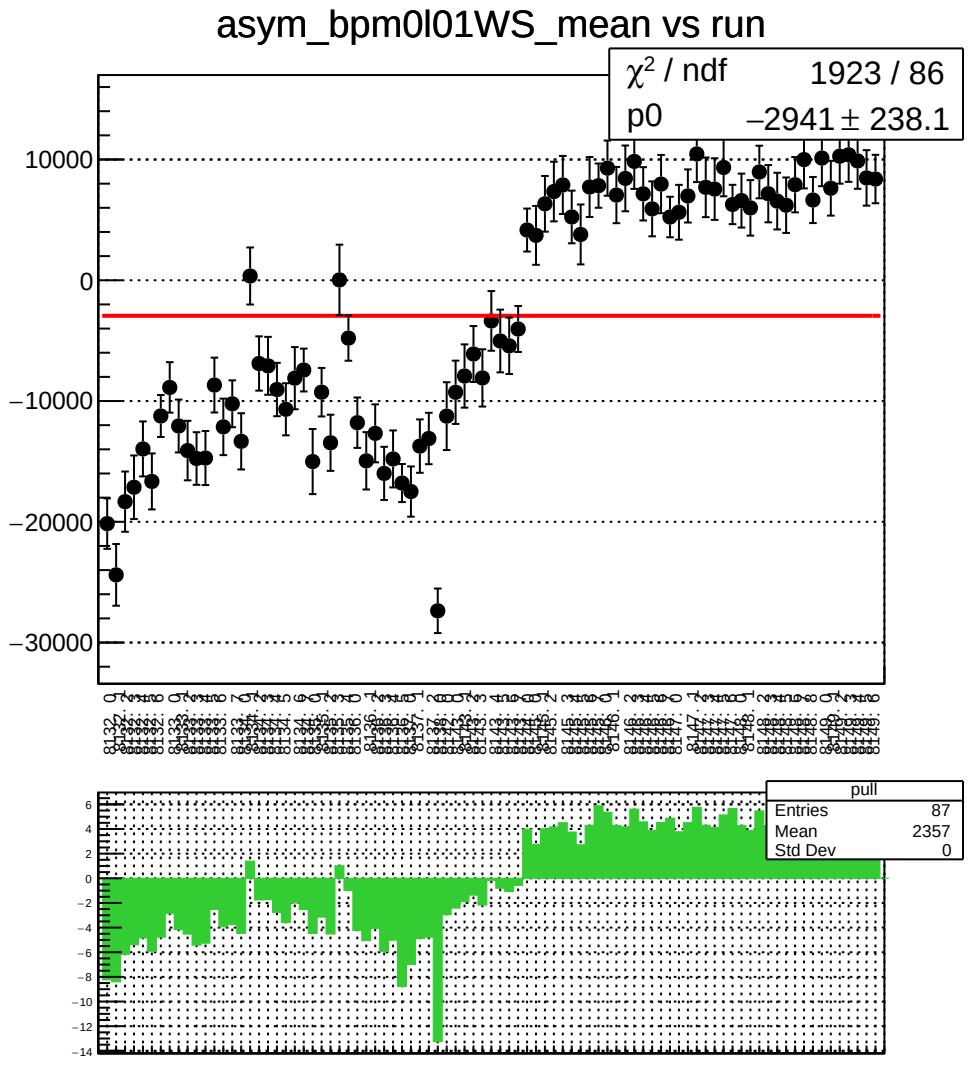

pull1D
Entries 87
Mean 0.3188
Std Dev 3.402

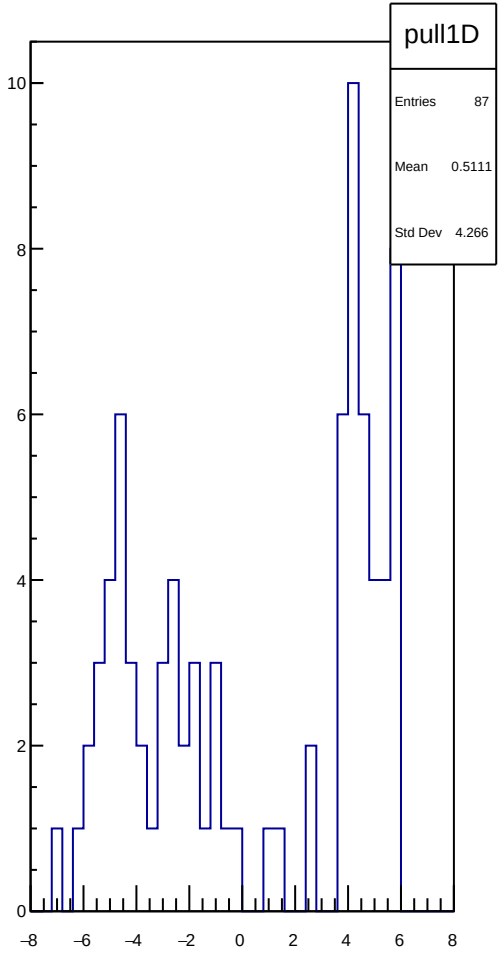

asym_bpm0i01WS_rms vs run
χ^2 / ndf 9093 / 86
p0 201 ± 0.1537
260
250
240
230
220
210
200
190
180
170

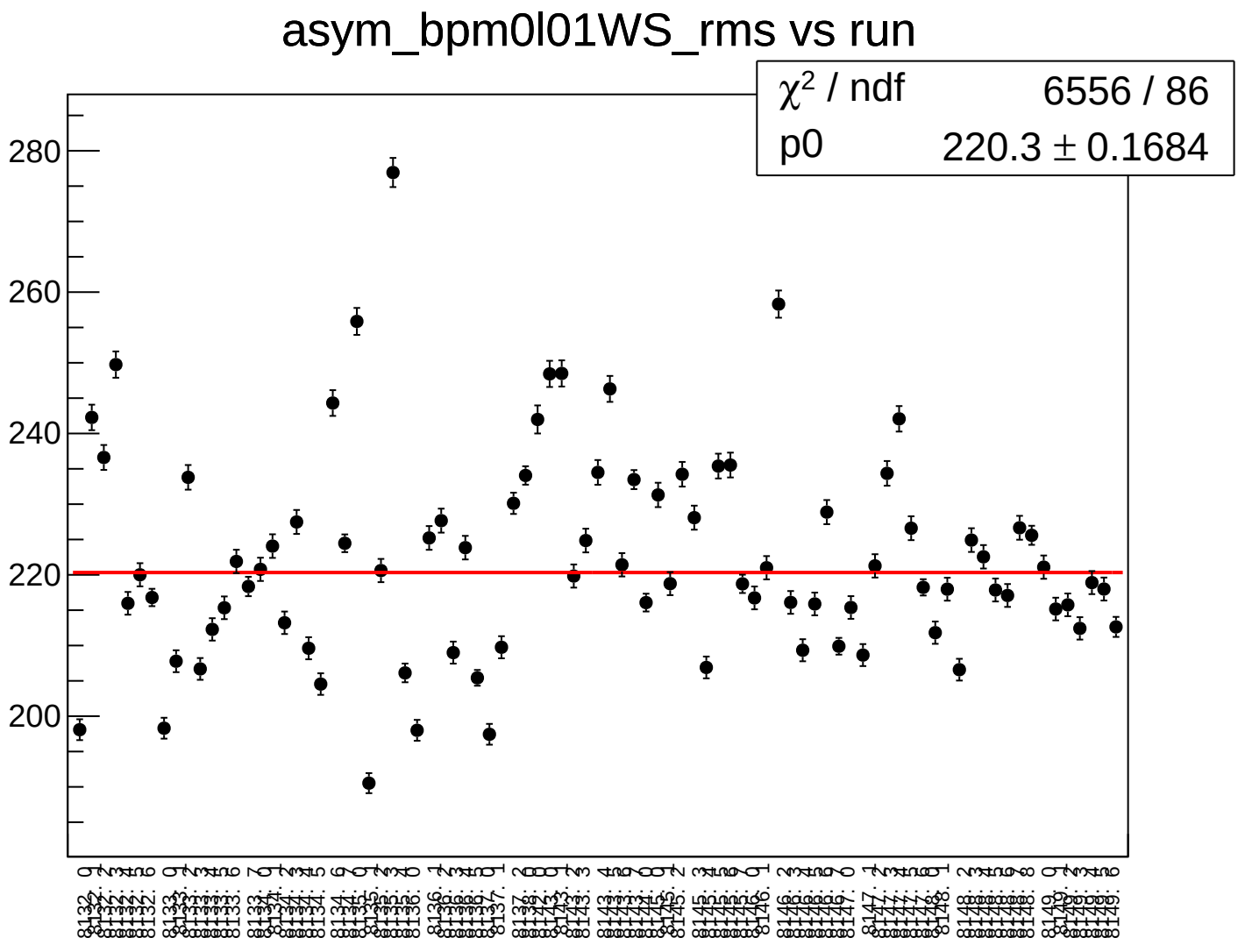

asym_bpm0i01aWS_mean vs run
χ² / ndf 1934 / 86
p0 1.06e+04 ± 188.7
pull
Entries 87
Mean −1435
Std Dev 0

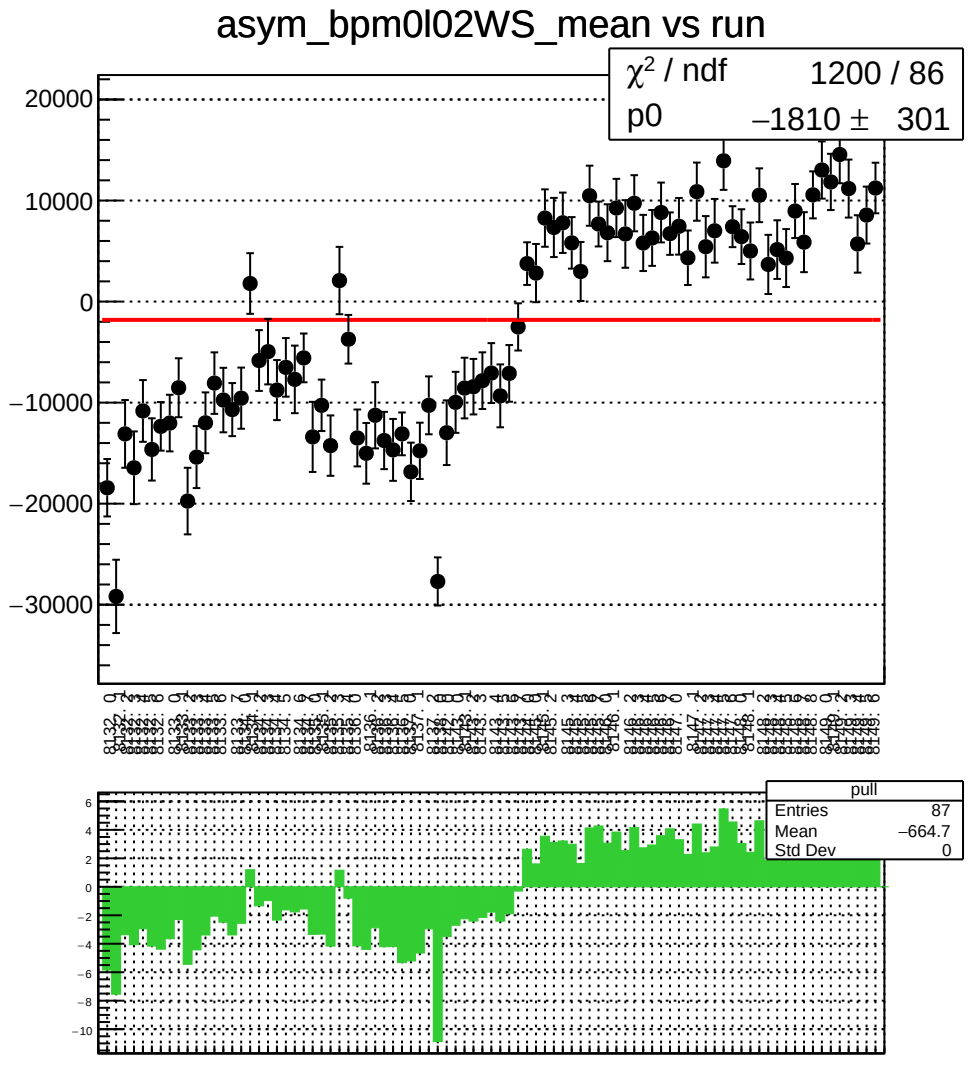

pull1D
Entries 87
Mean 0.5021
Std Dev 3.992

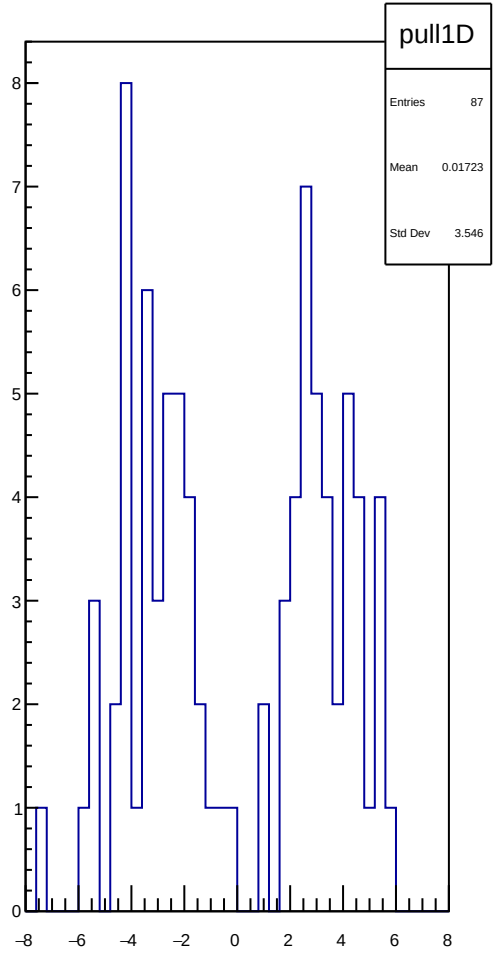

asym_bpm0i01aWS_rms vs run
χ² / ndf 9142 / 86
p0 174.5 ± 0.1334
220
210
200
190
180
170
160
150

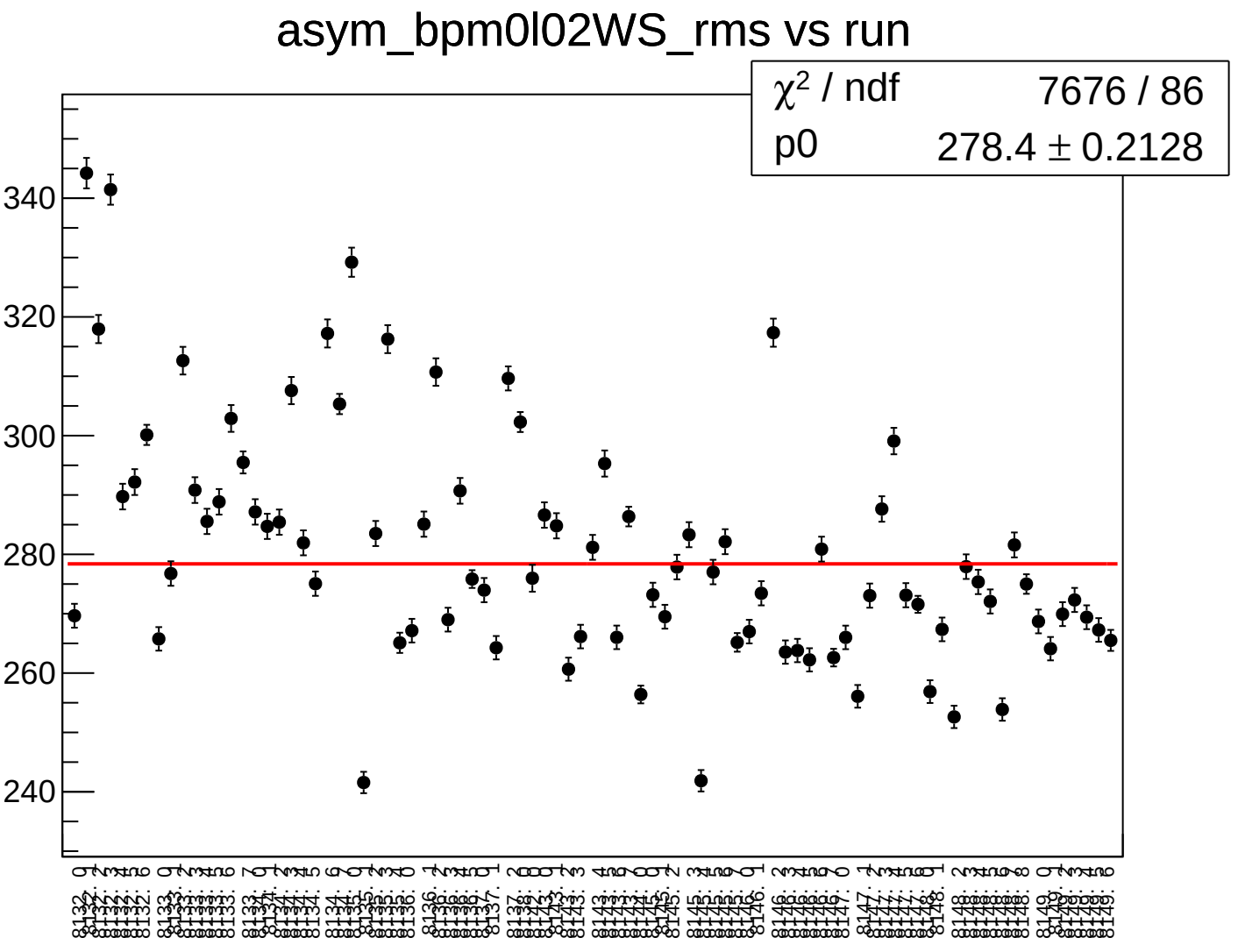

asym_bpm0l01WS_mean vs run
χ² / ndf 1923 / 86
p0 −2941 ± 238.1
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean 2357
Std Dev 0
6
4
2
0
−2
−4
−6
−8
−10
−12
−14

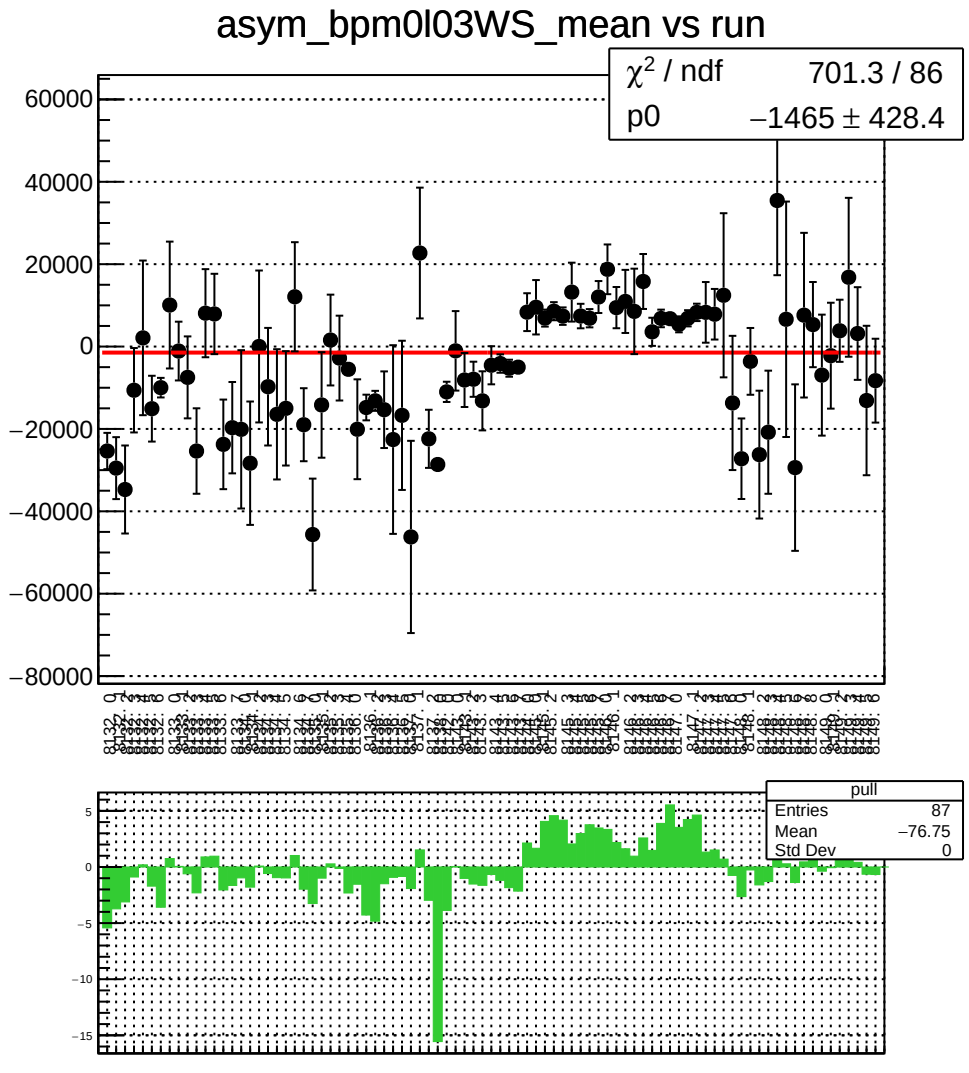

pull1D
Entries 87
Mean 0.5111
Std Dev 4.266
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

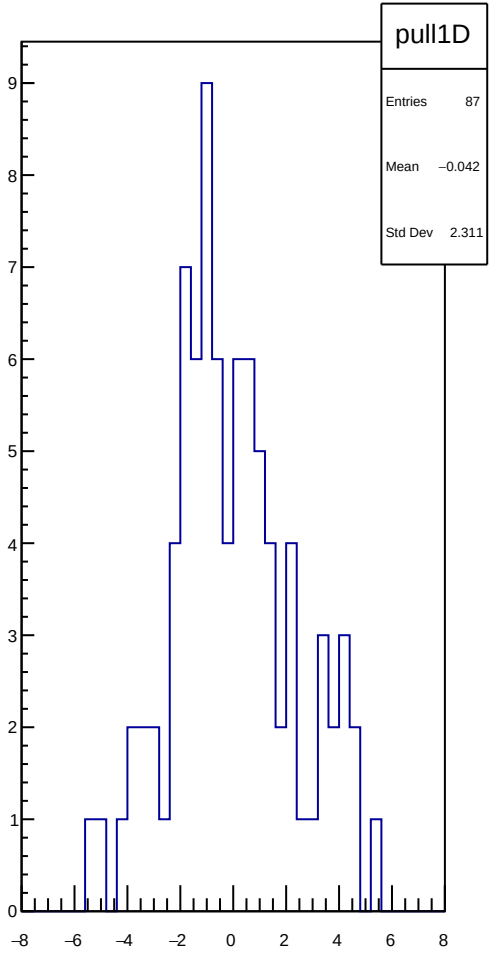

asym_bpm0l01WS_rms vs run
χ² / ndf 6556 / 86
p0 220.3 ± 0.1684
280
260
240
220
200

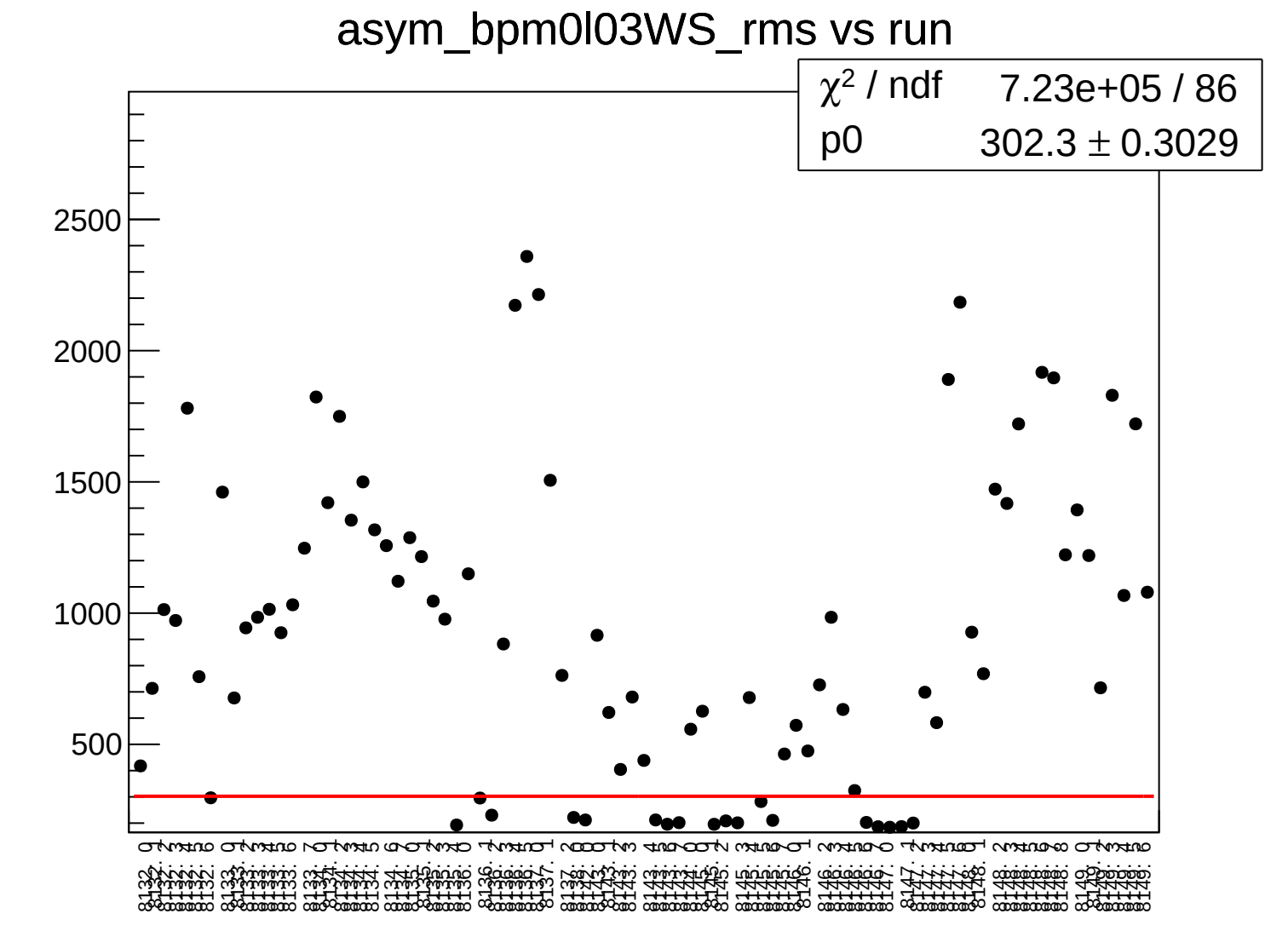

asym_bpm0l02WS_mean vs run
χ² / ndf 1200 / 86
p0 −1810 ± 301
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean −664.7
Std Dev 0
6
4
2
0
−2
−4
−6
−8
−10

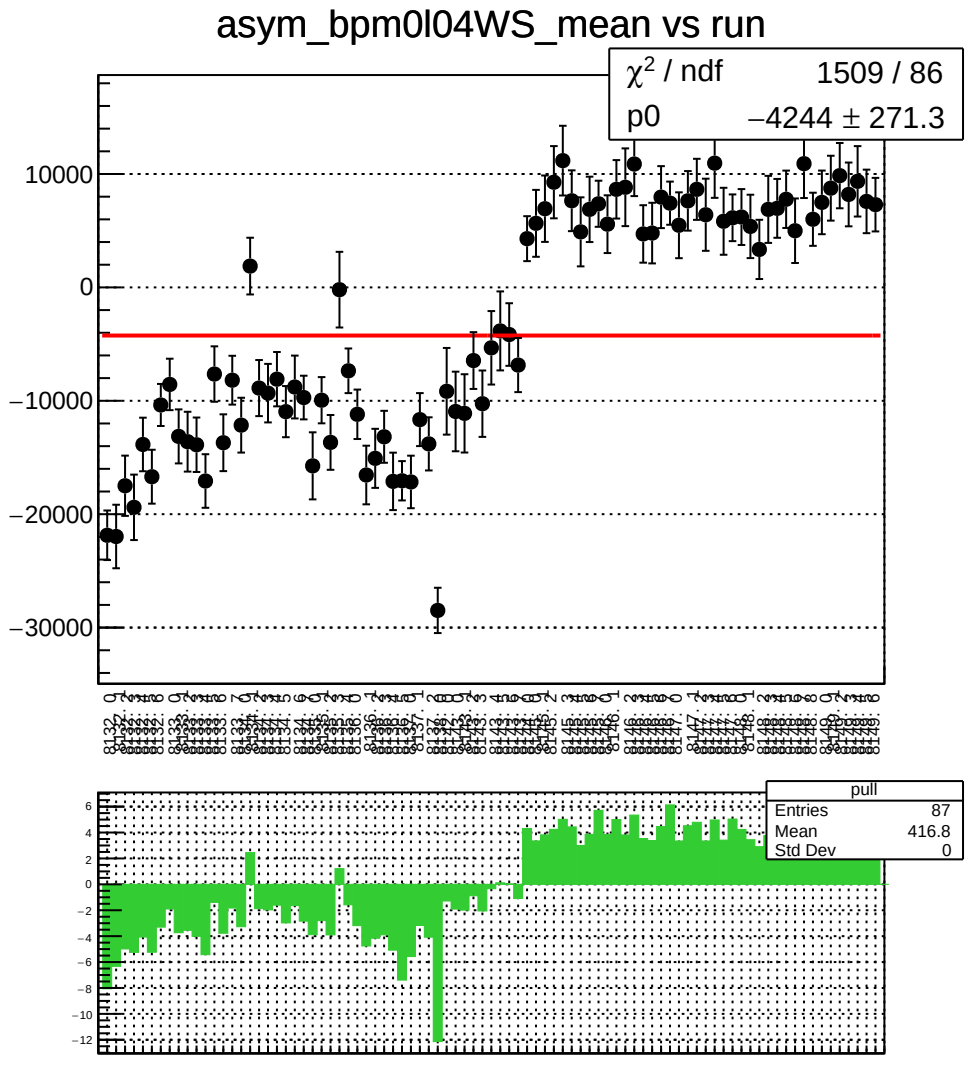

pull1D
Entries 87
Mean 0.01723
Std Dev 3.546
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

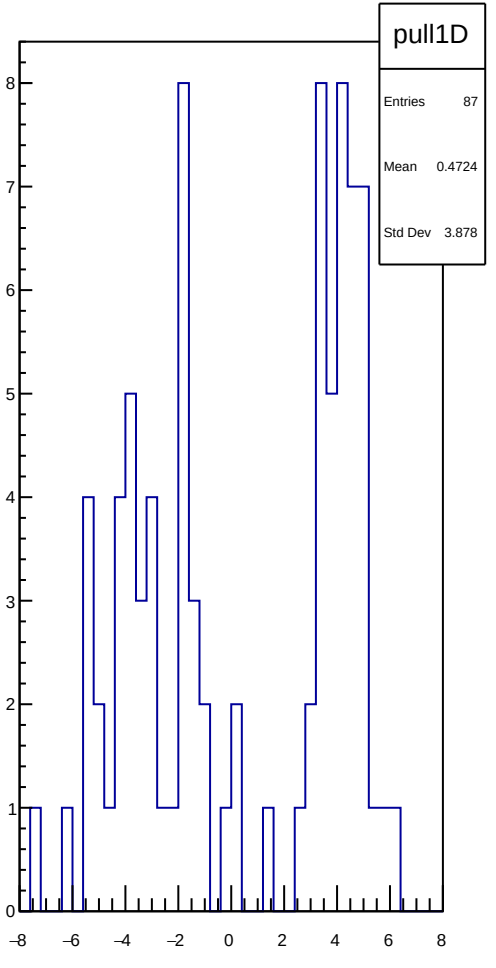

asym_bpm0l02WS_rms vs run
χ² / ndf 7676 / 86
p0 278.4 ± 0.2128
340
320
300
280
260
240

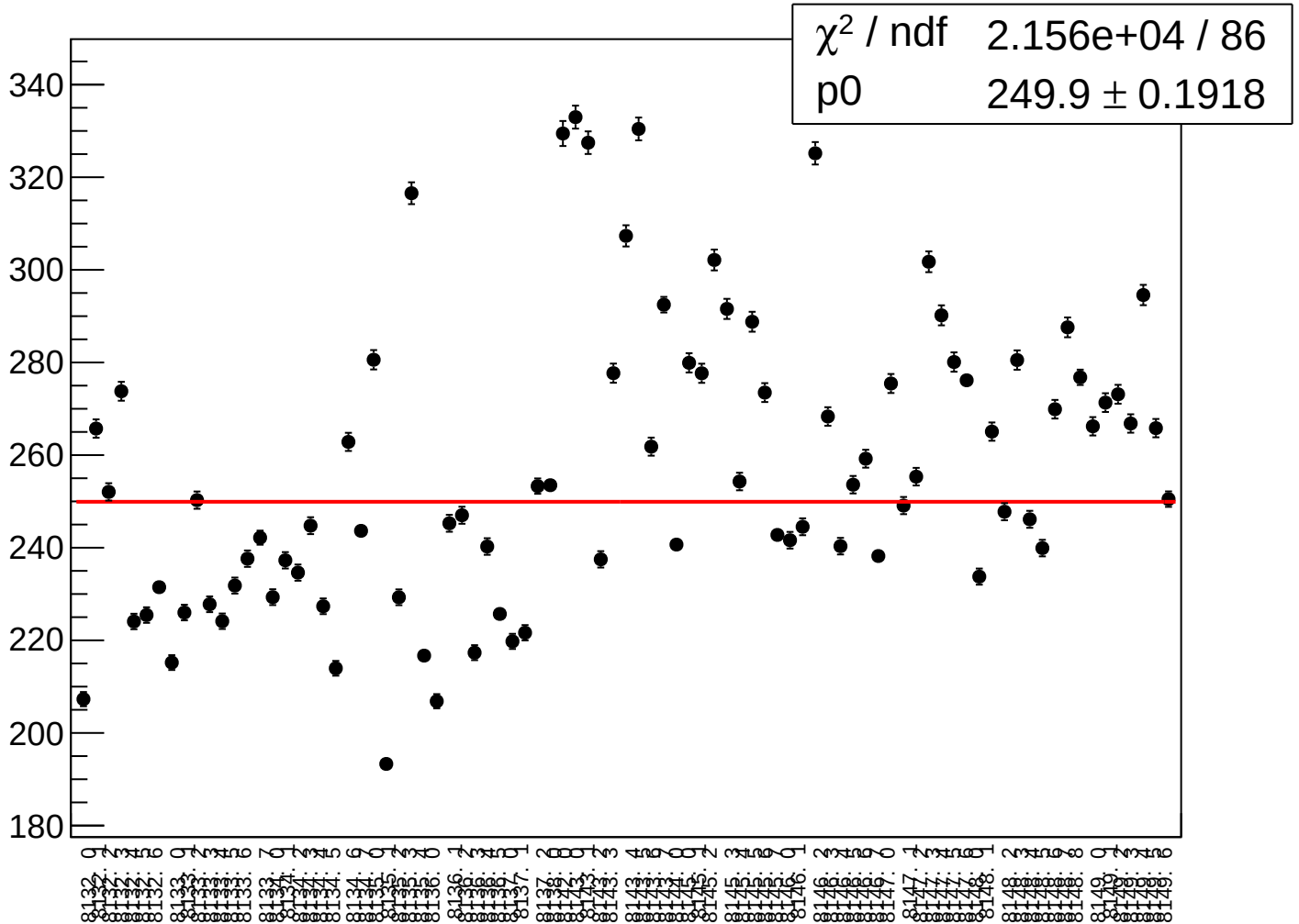

asym_bpm0l03WS_mean vs run
χ² / ndf 701.3 / 86
p0 −1465 ± 428.4
pull
Entries 87
Mean −76.75
Std Dev 0

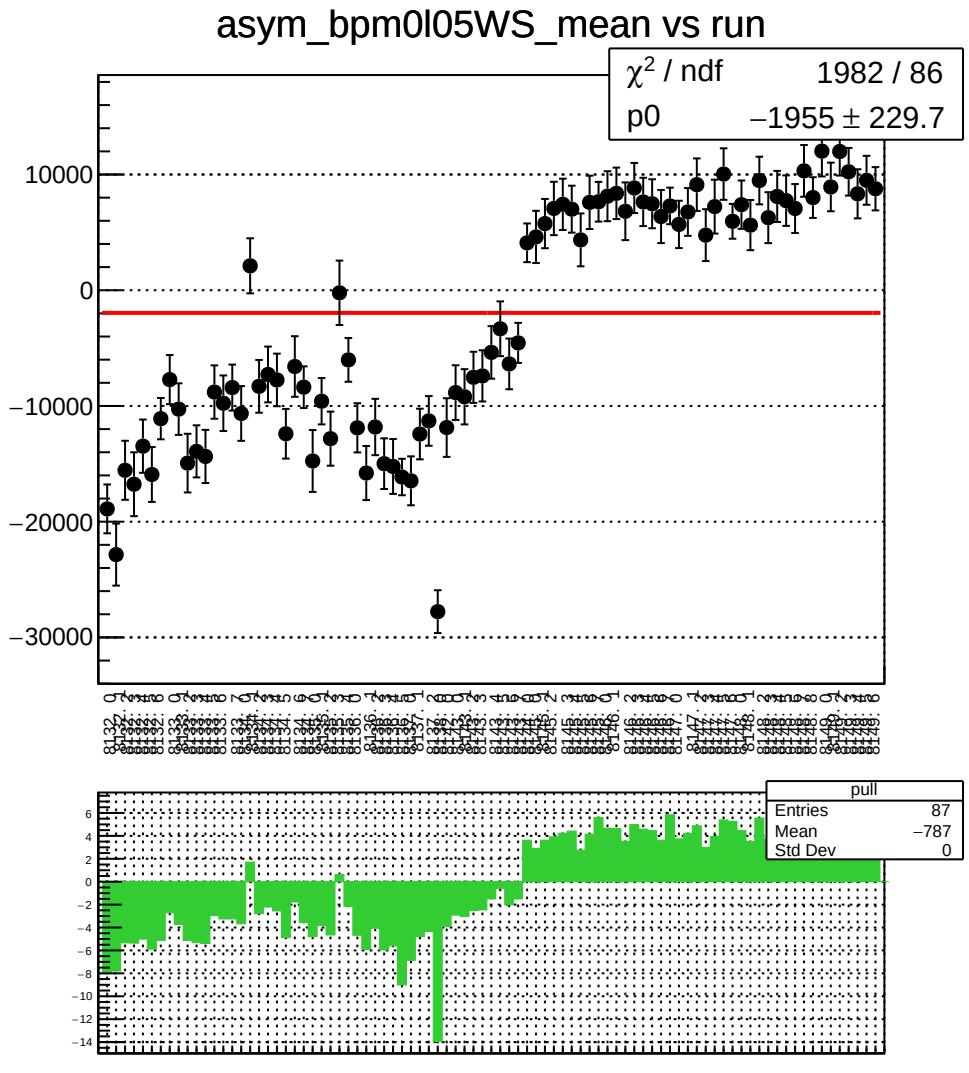

pull1D
Entries 87
Mean −0.042
Std Dev 2.311

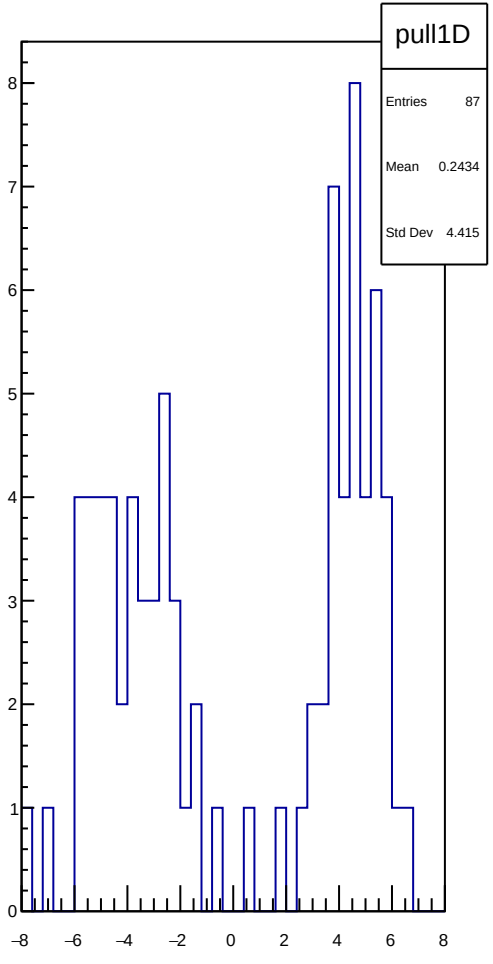

asym_bpm0l03WS_rms vs run
χ² / ndf 7.23e+05 / 86
p0 302.3 ± 0.3029
2500
2000
1500
1000
500

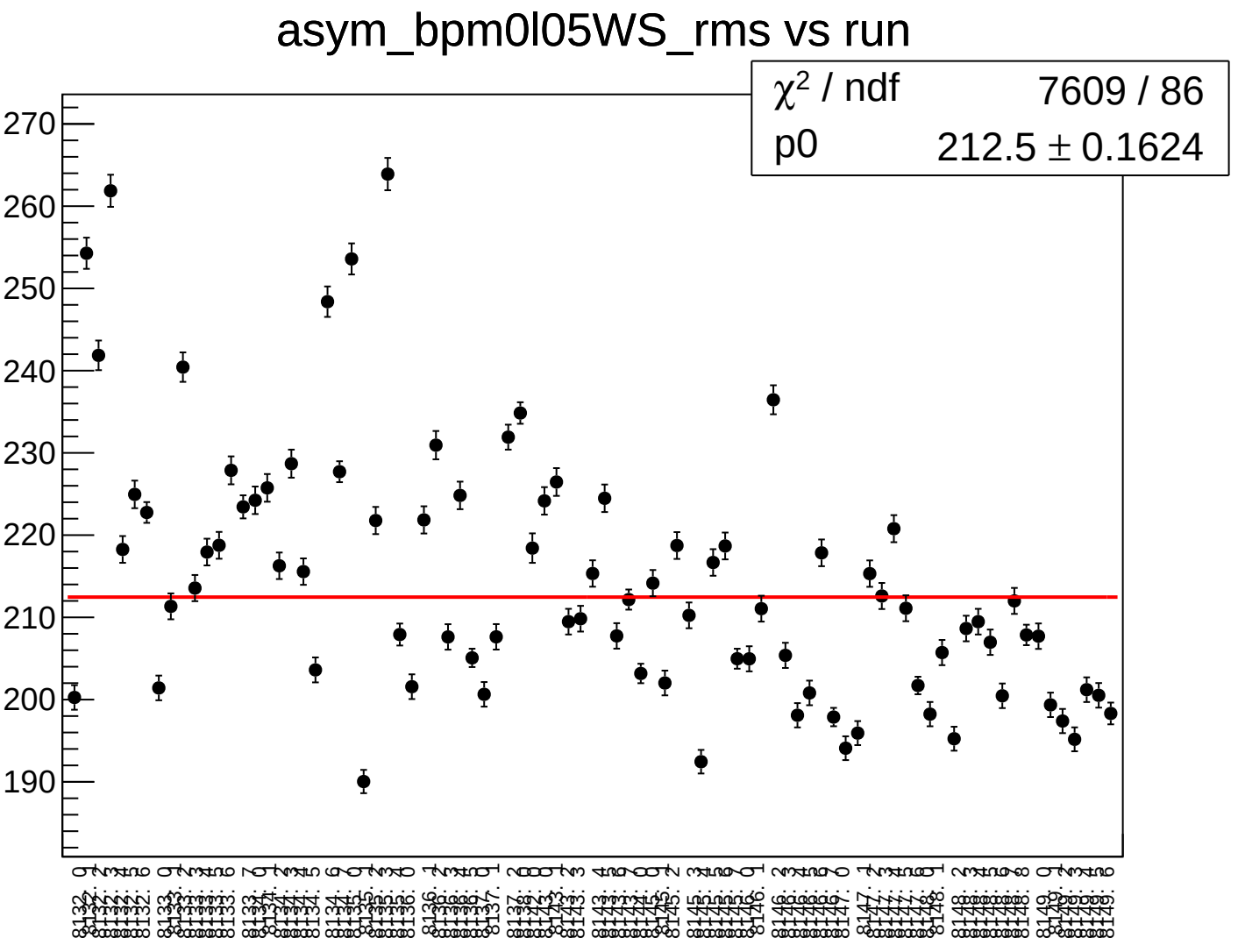

asym_bpm0l04WS_mean vs run
χ² / ndf 1509 / 86
p0 −4244 ± 271.3
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean 416.8
Std Dev 0
6
4
2
0
−2
−4
−6
−8
−10
−12

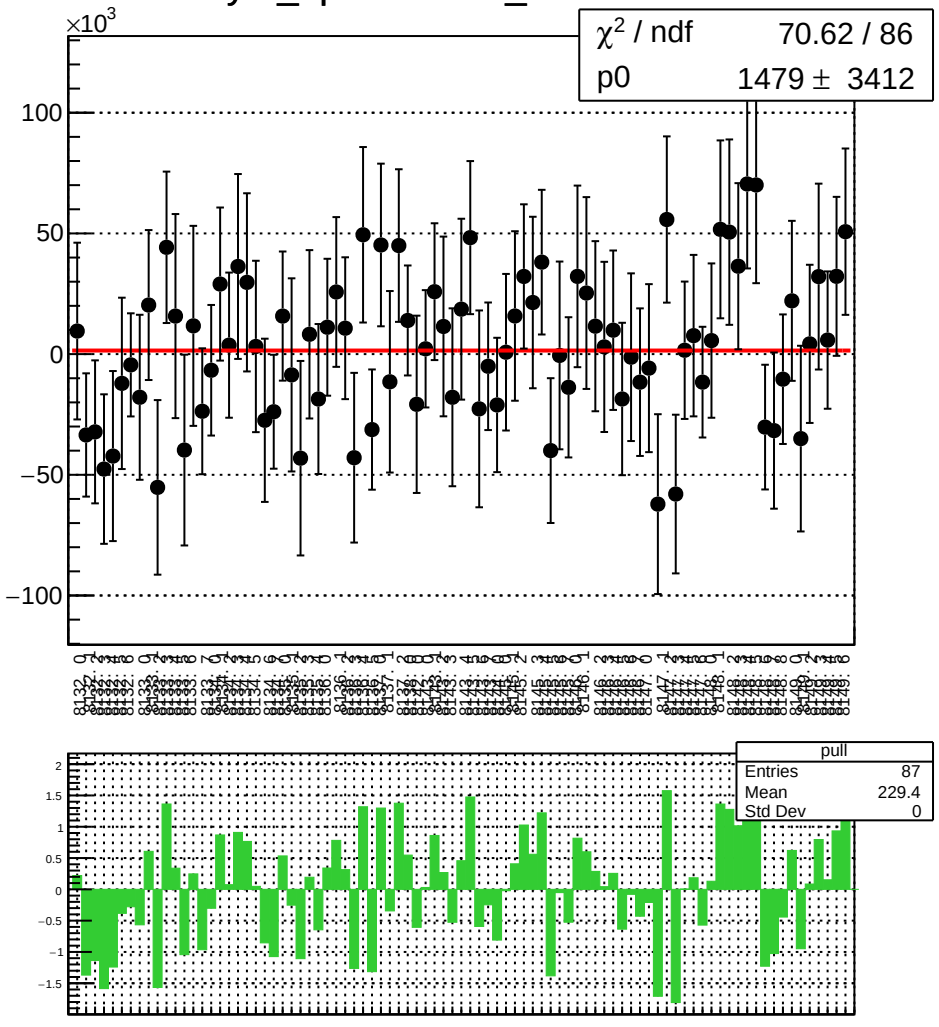

pull1D
Entries 87
Mean 0.4724
Std Dev 3.878
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

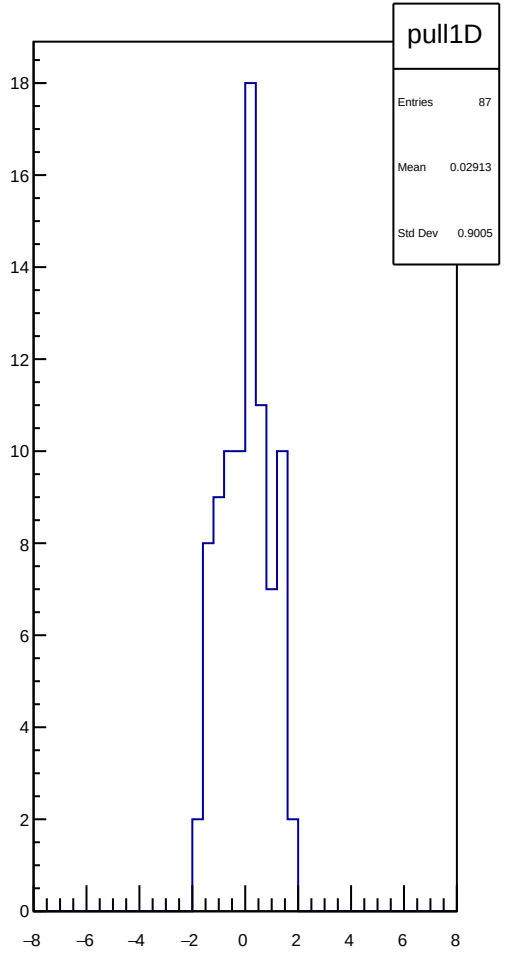

asym_bpm0l04WS_rms vs run
χ² / ndf 2.156e+04 / 86
p0 249.9 ± 0.1918
340
320
300
280
260
240
220
200
180

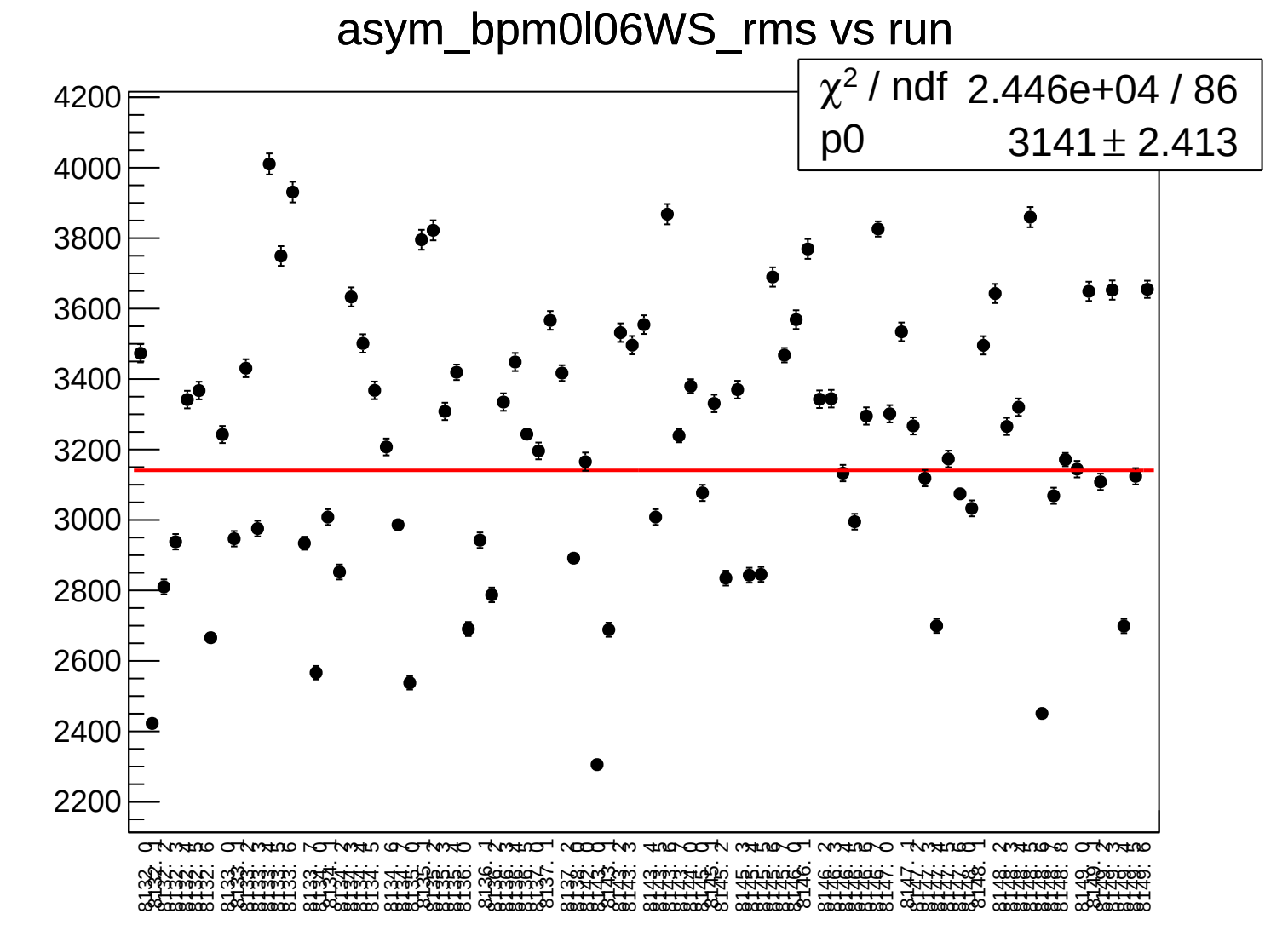

asym_bpm0l05WS_mean vs run
χ² / ndf 1982 / 86
p0 −1955 ± 229.7
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean −787
Std Dev 0
6
4
2
0
−2
−4
−6
−8
−10
−12
−14

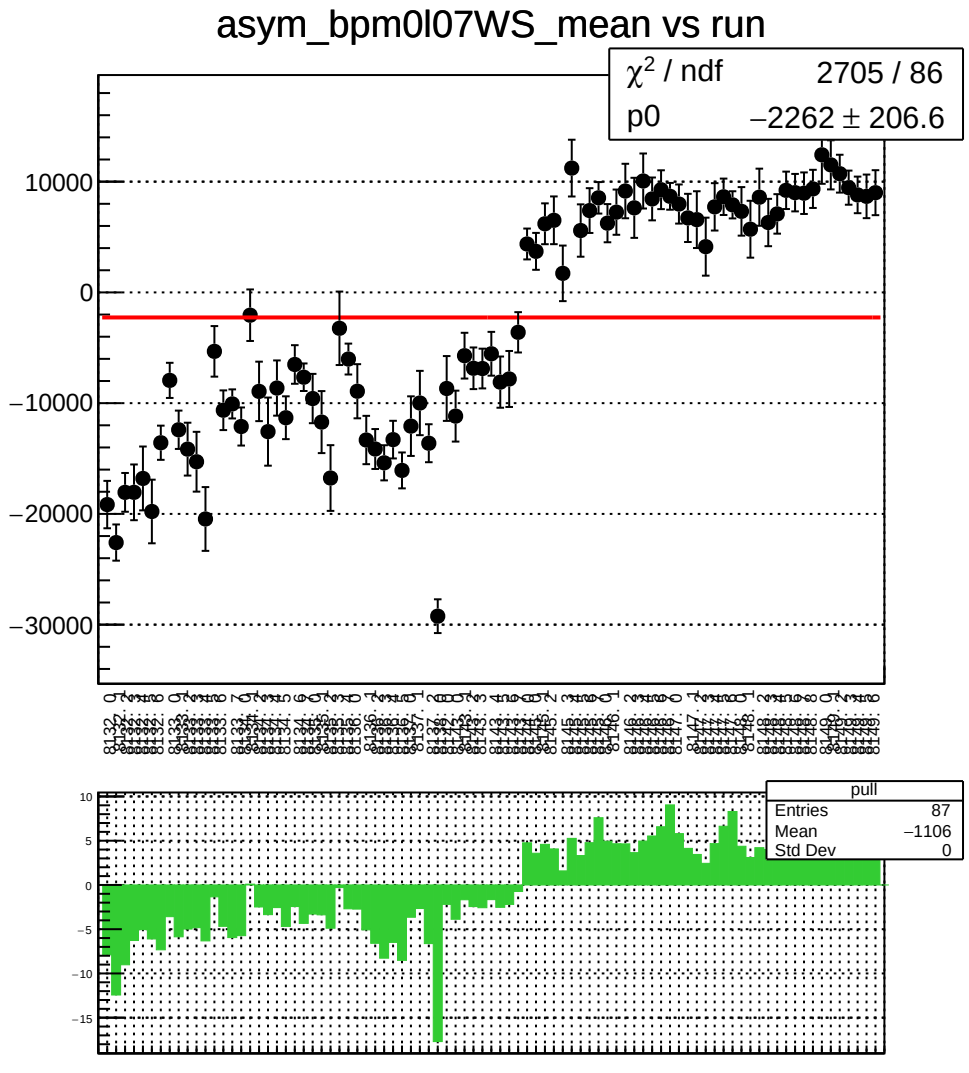

pull1D
Entries 87
Mean 0.2434
Std Dev 4.415
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

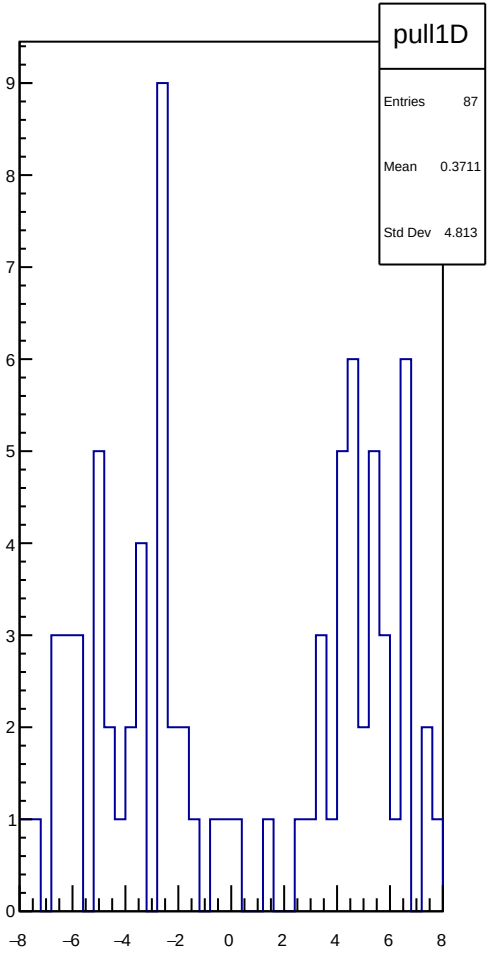

asym_bpm0l05WS_rms vs run
χ² / ndf 7609 / 86
p0 212.5 ± 0.1624
270
260
250
240
230
220
210
200
190

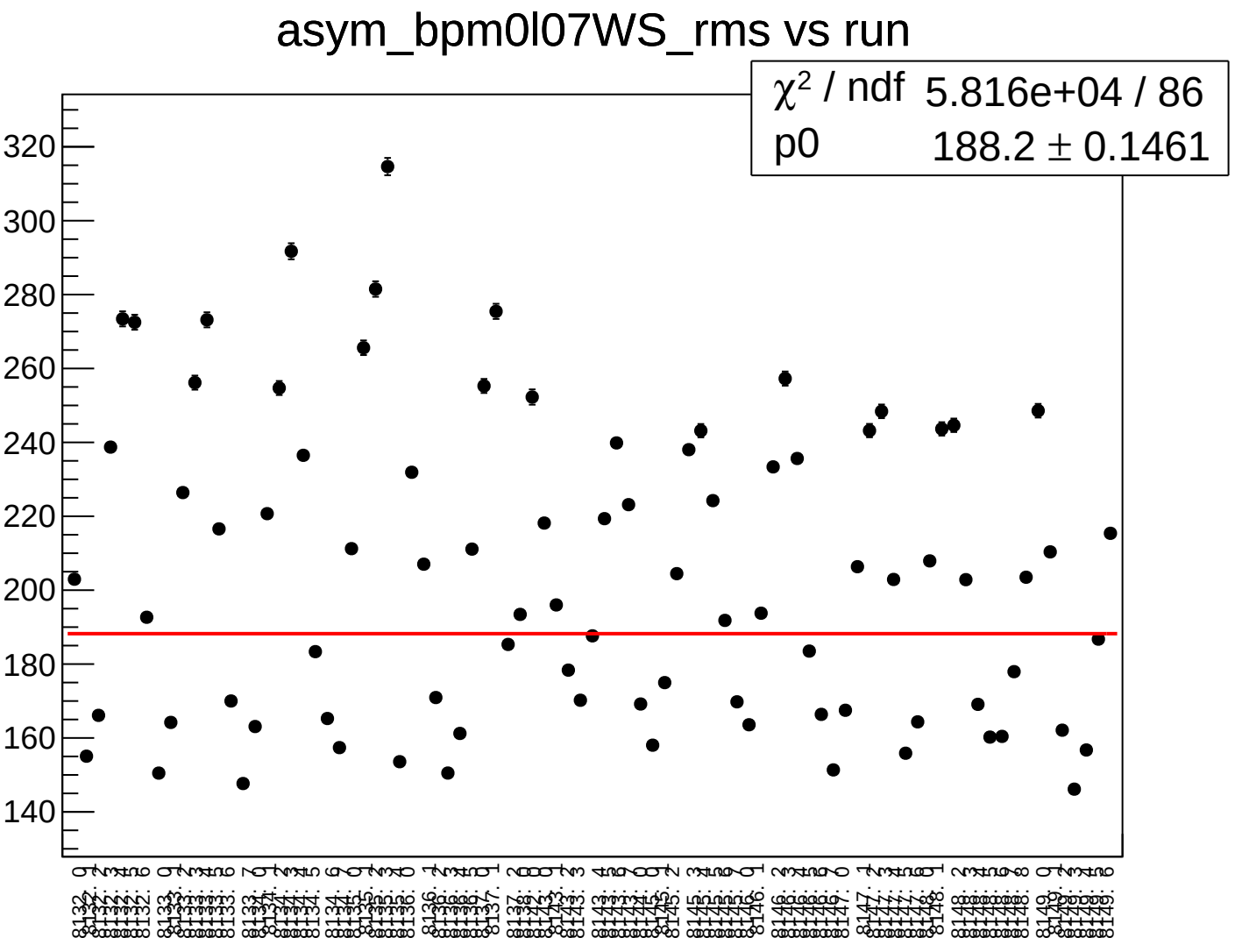

asym_bpm0l06WS_mean vs run
×10^3
χ² / ndf 70.62 / 86
p0 1479 ± 3412
100
50
0
−50
−100
pull
Entries 87
Mean 229.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

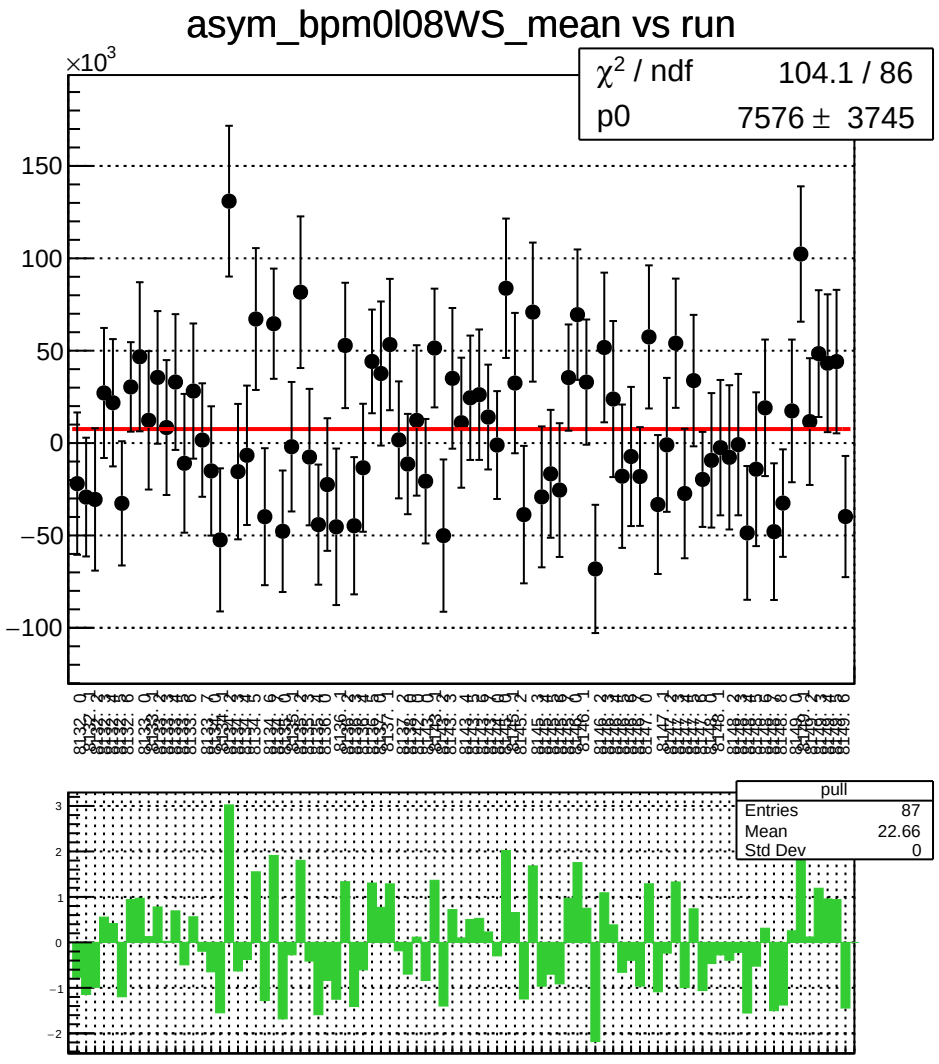

pull1D
Entries 87
Mean 0.02913
Std Dev 0.9005
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

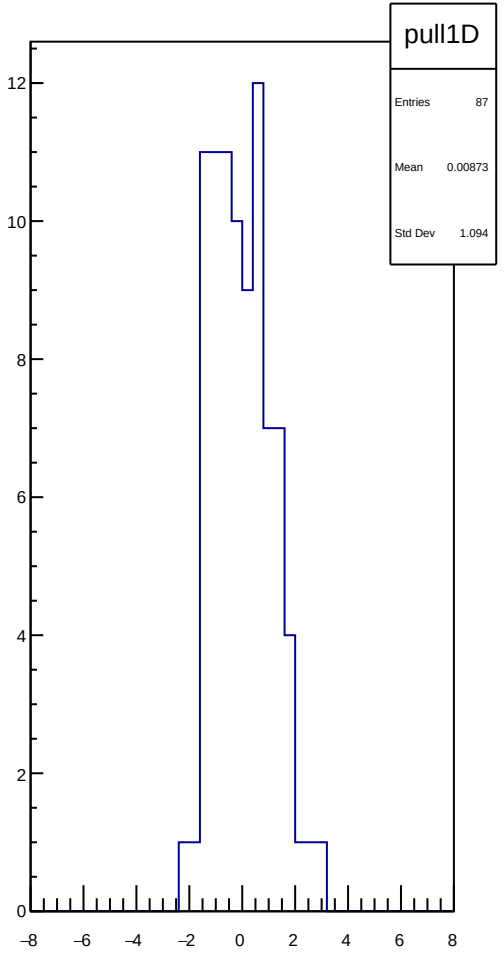

asym_bpm0l06WS_rms vs run
χ² / ndf 2.446e+04 / 86
p0 3141 ± 2.413
4200
4000
3800
3600
3400
3200
3000
2800
2600
2400
2200

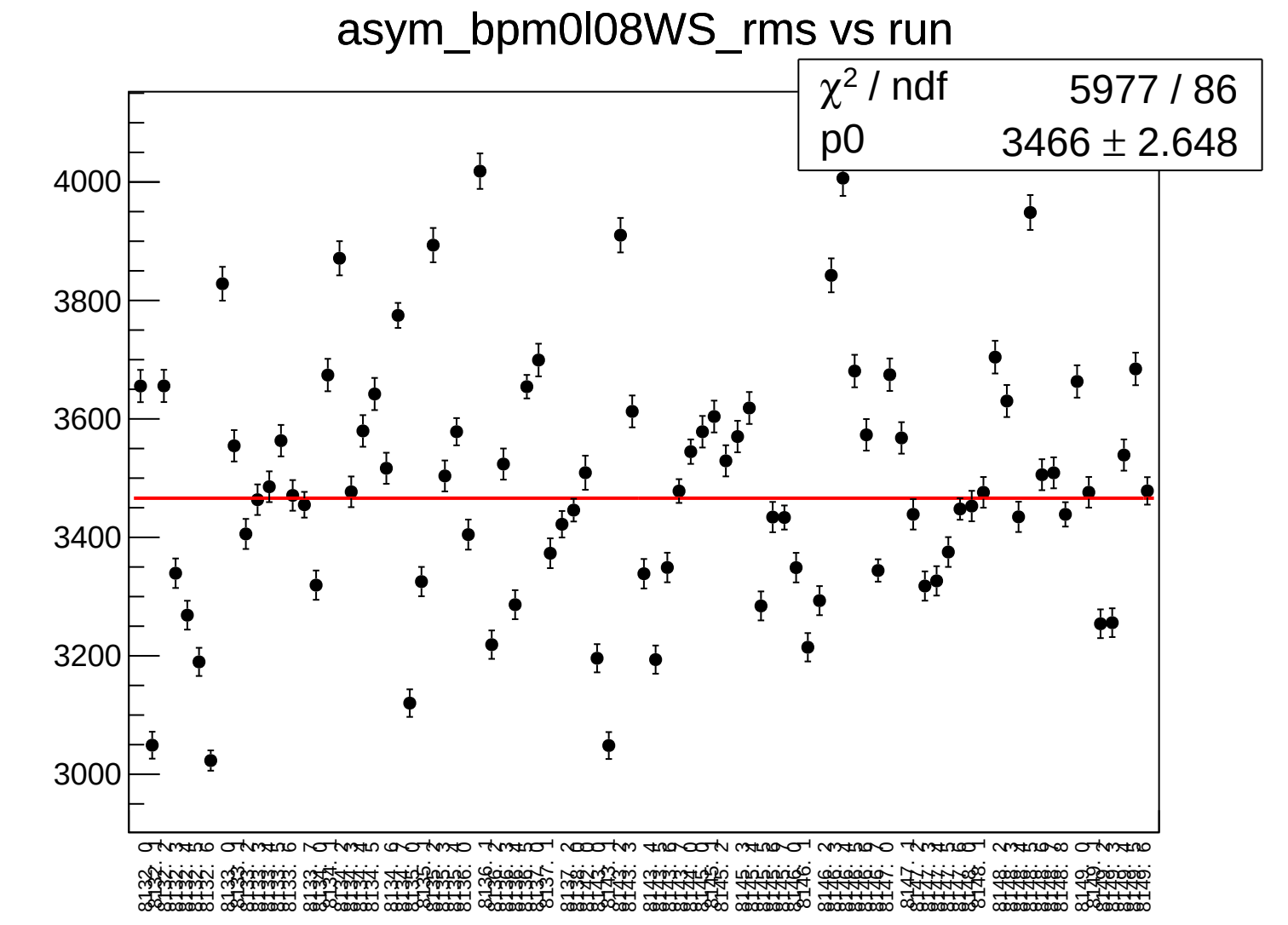

asym_bpm0l07WS_mean vs run
χ² / ndf 2705 / 86
p0 −2262 ± 206.6
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean −1106
Std Dev 0
10
5
0
−5
−10
−15

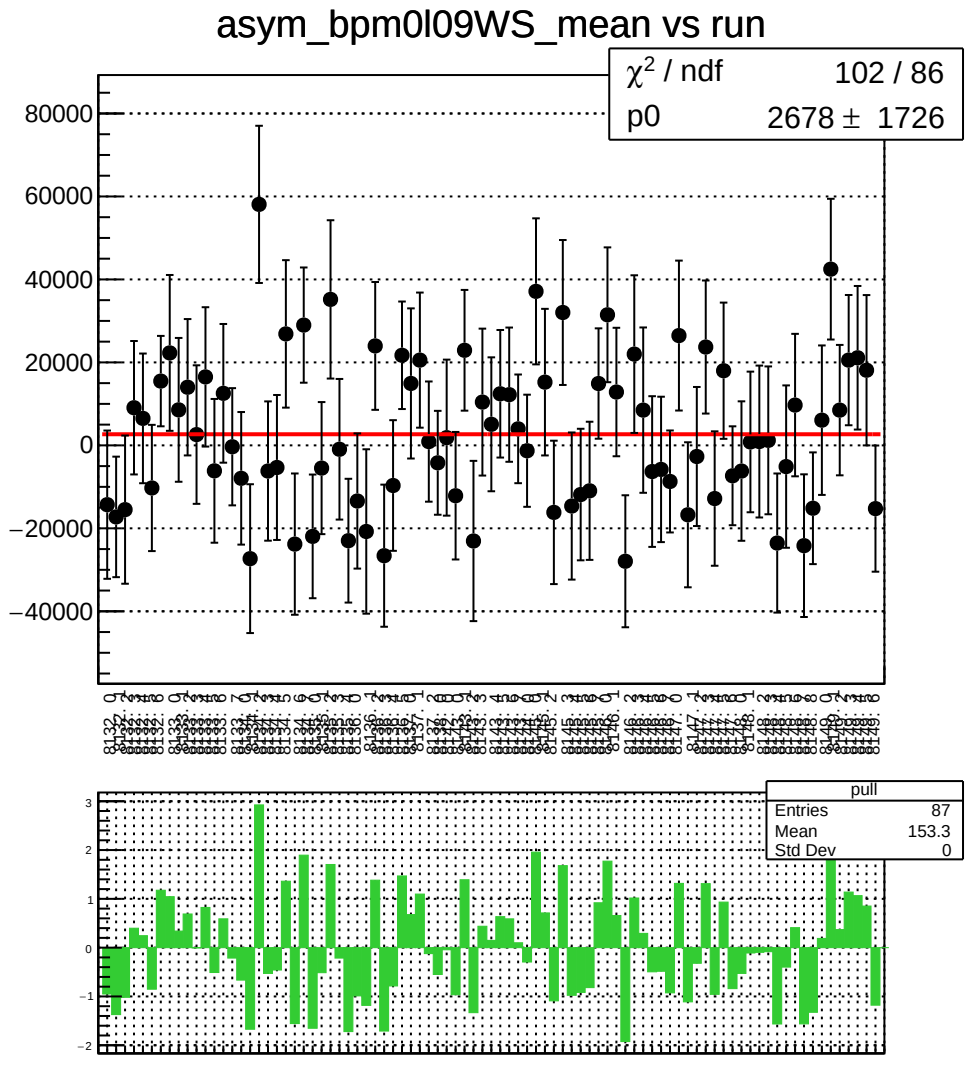

pull1D
Entries 87
Mean 0.3711
Std Dev 4.813
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

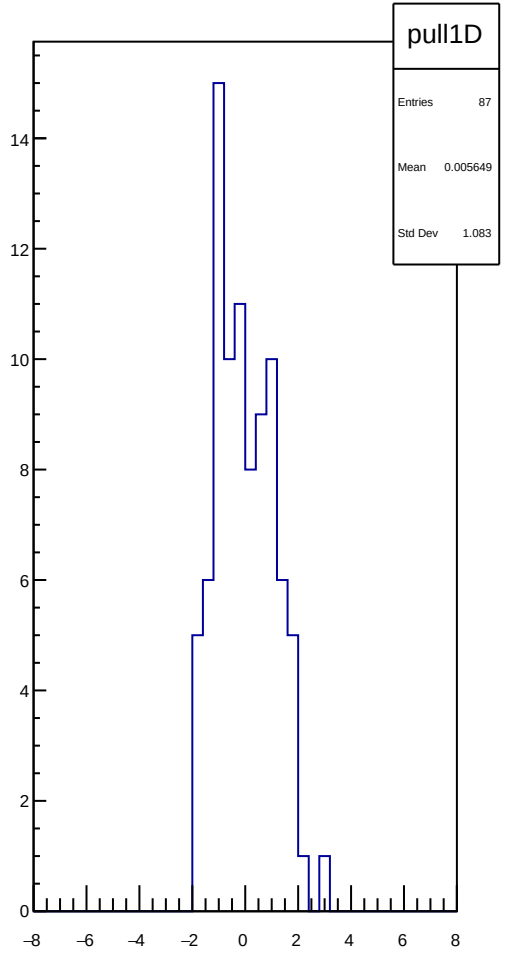

asym_bpm0l07WS_rms vs run
χ² / ndf 5.816e+04 / 86
p0 188.2 ± 0.1461
320
300
280
260
240
220
200
180
160
140

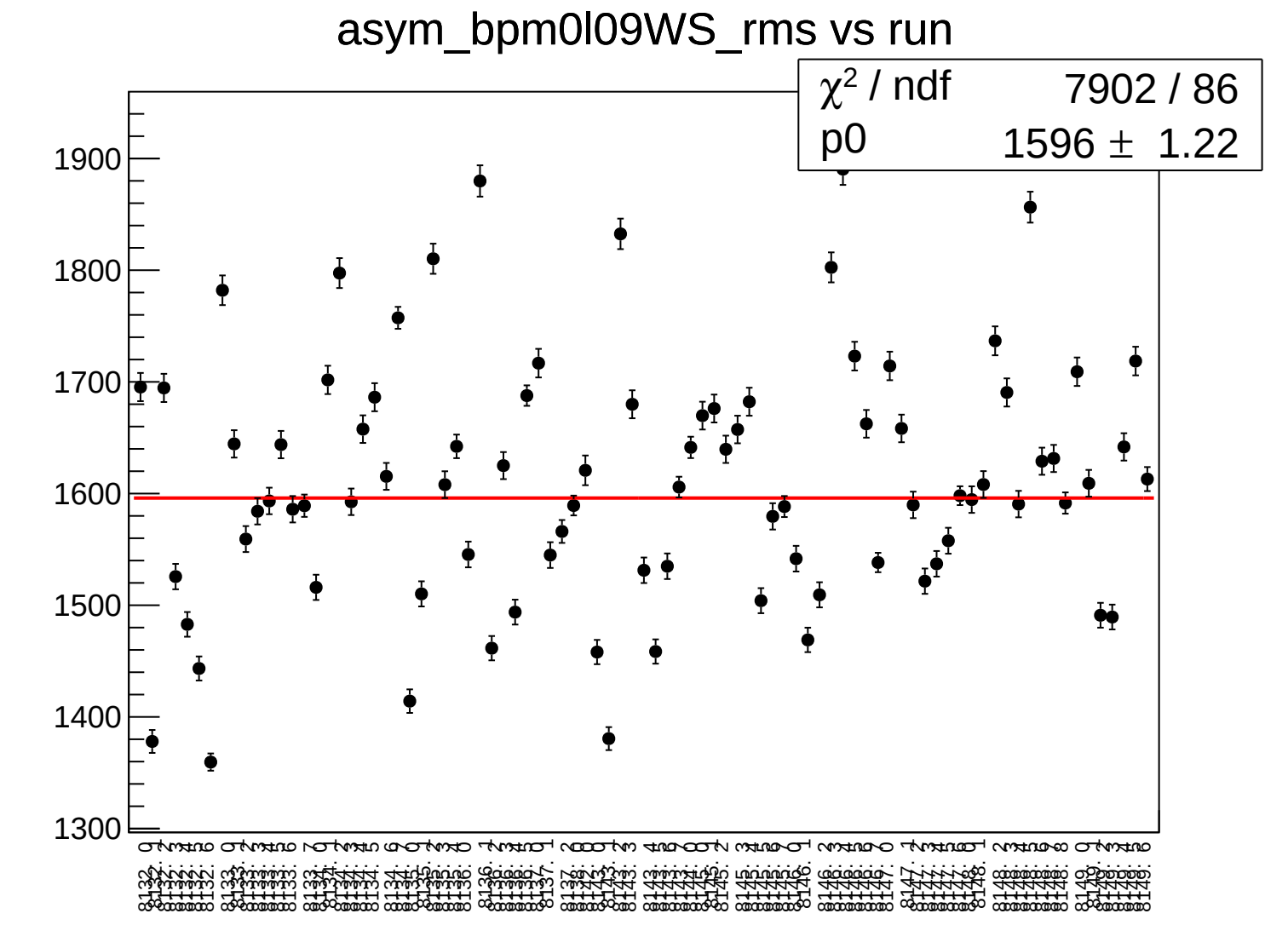

asym_bpm0l08WS_mean vs run
×10^3
χ^2 / ndf 104.1 / 86
p0 7576 ± 3745
150
100
50
0
−50
−100
pull
Entries 87
Mean 22.66
Std Dev 0
3
2
1
0
−1
−2

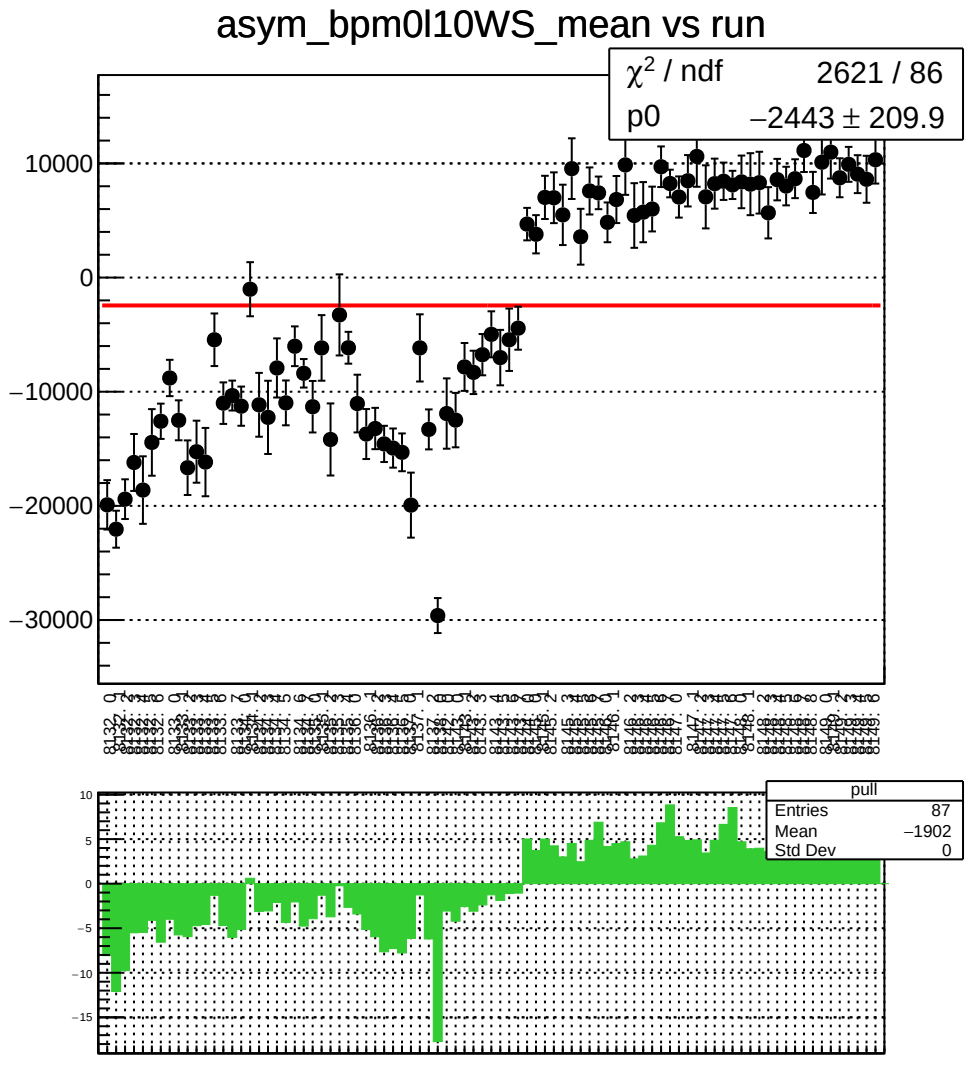

pull1D
Entries 87
Mean 0.00873
Std Dev 1.094
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

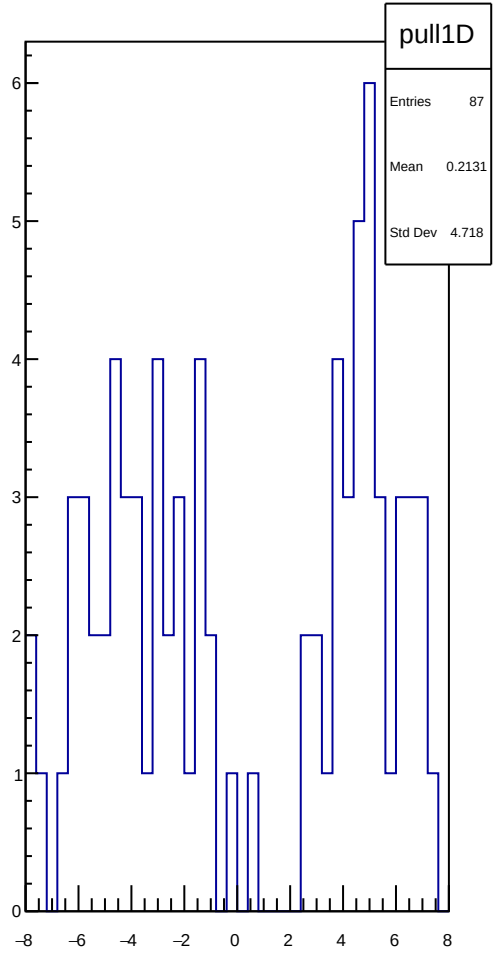

asym_bpm0l08WS_rms vs run
χ² / ndf 5977 / 86
p0 3466 ± 2.648
4000
3800
3600
3400
3200
3000

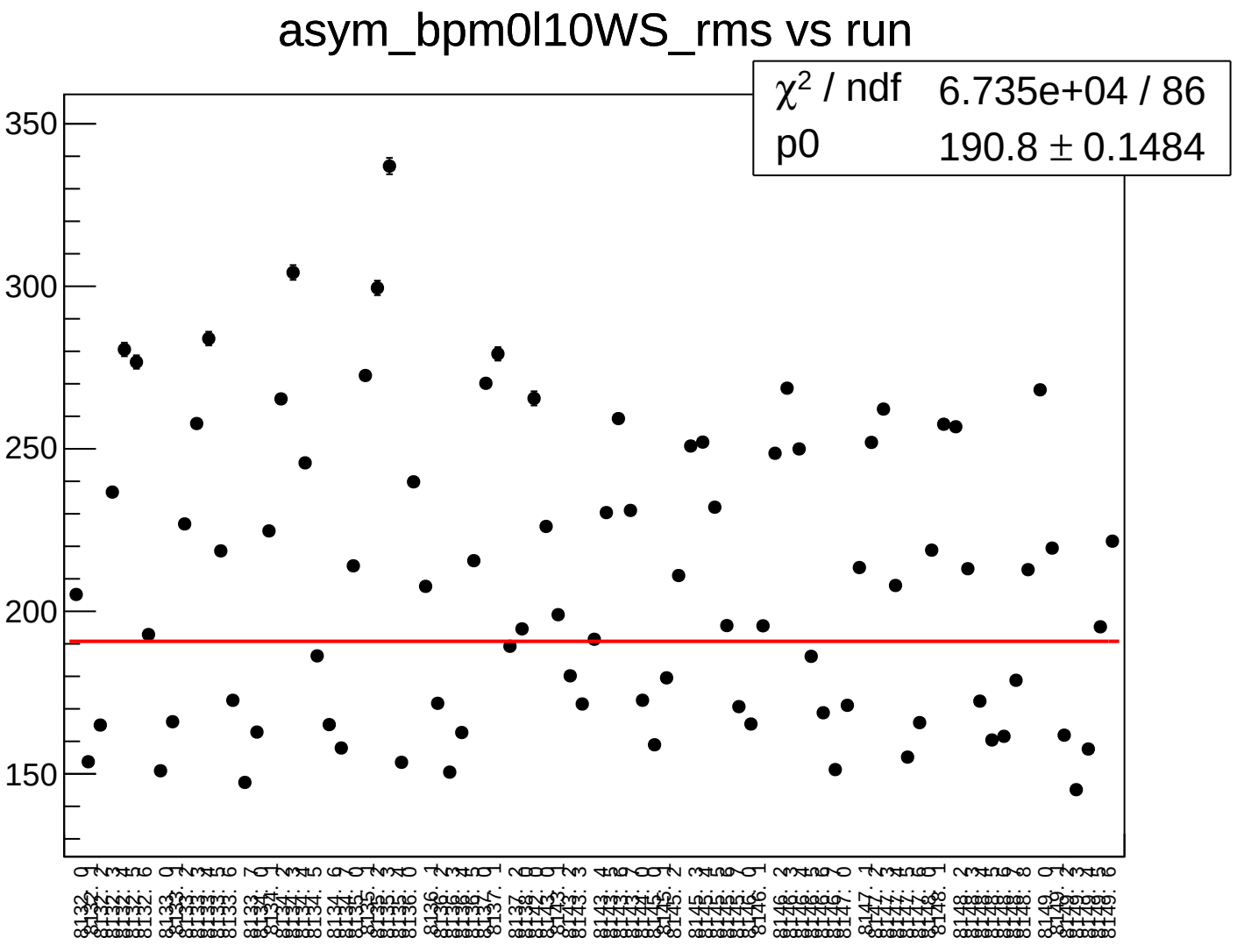

asym_bpm0l09WS_mean vs run
χ² / ndf 102 / 86
p0 2678 ± 1726
pull
Entries 87
Mean 153.3
Std Dev 0

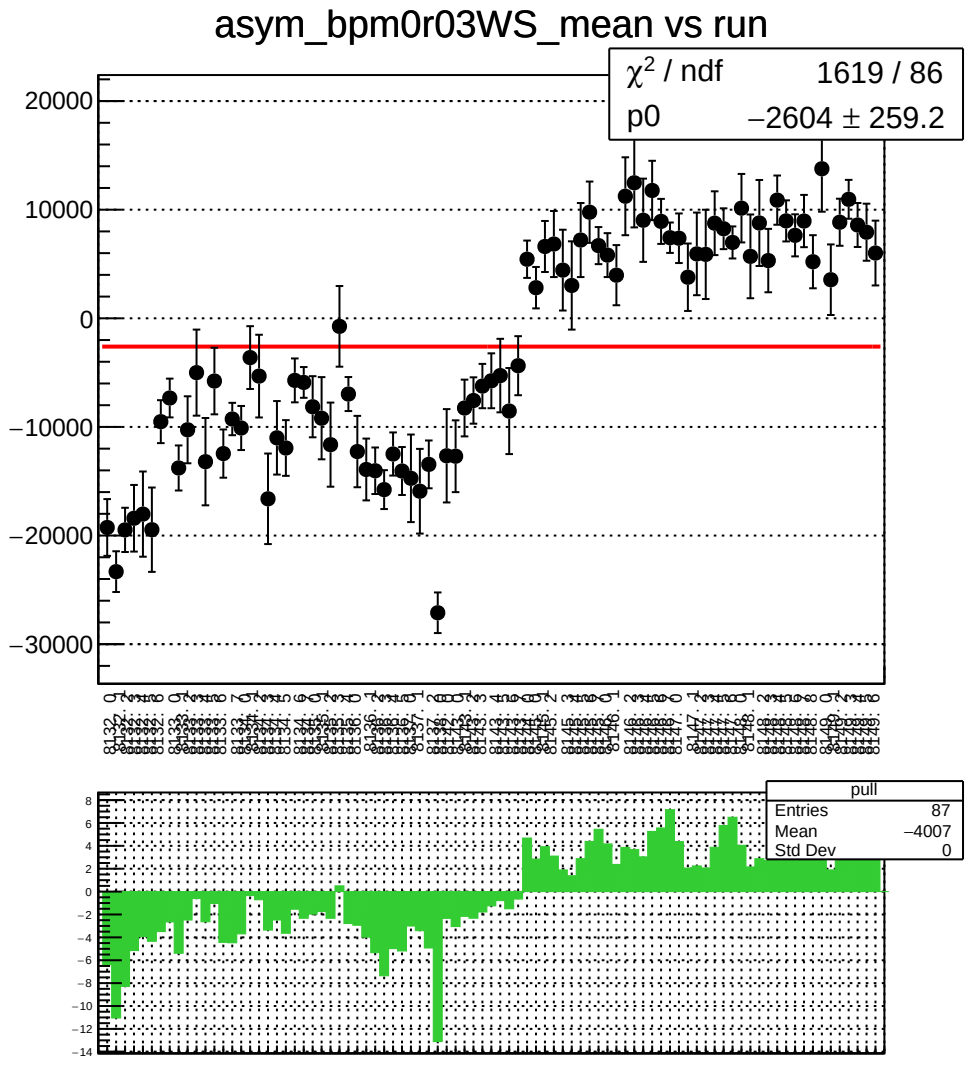

pull1D
Entries 87
Mean 0.005649
Std Dev 1.083

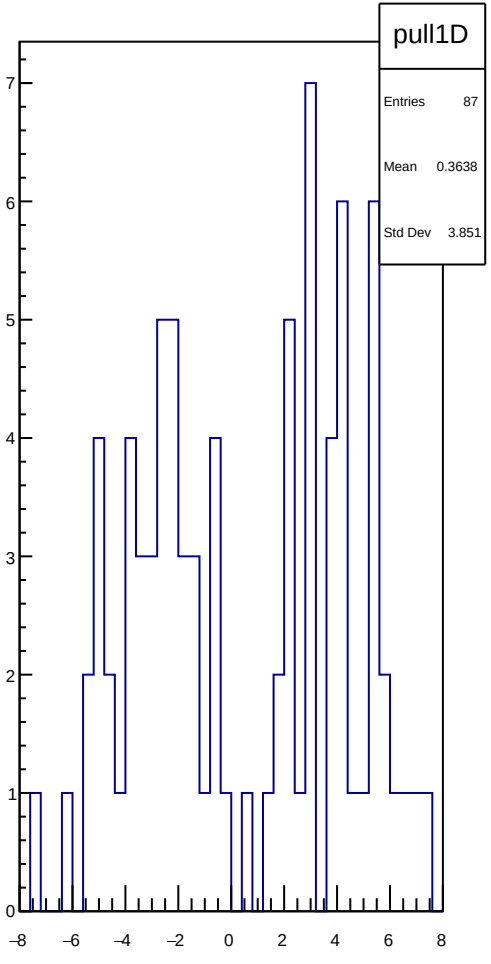

asym_bpm0l09WS_rms vs run
χ² / ndf 7902 / 86
p0 1596 ± 1.22
1900
1800
1700
1600
1500
1400
1300

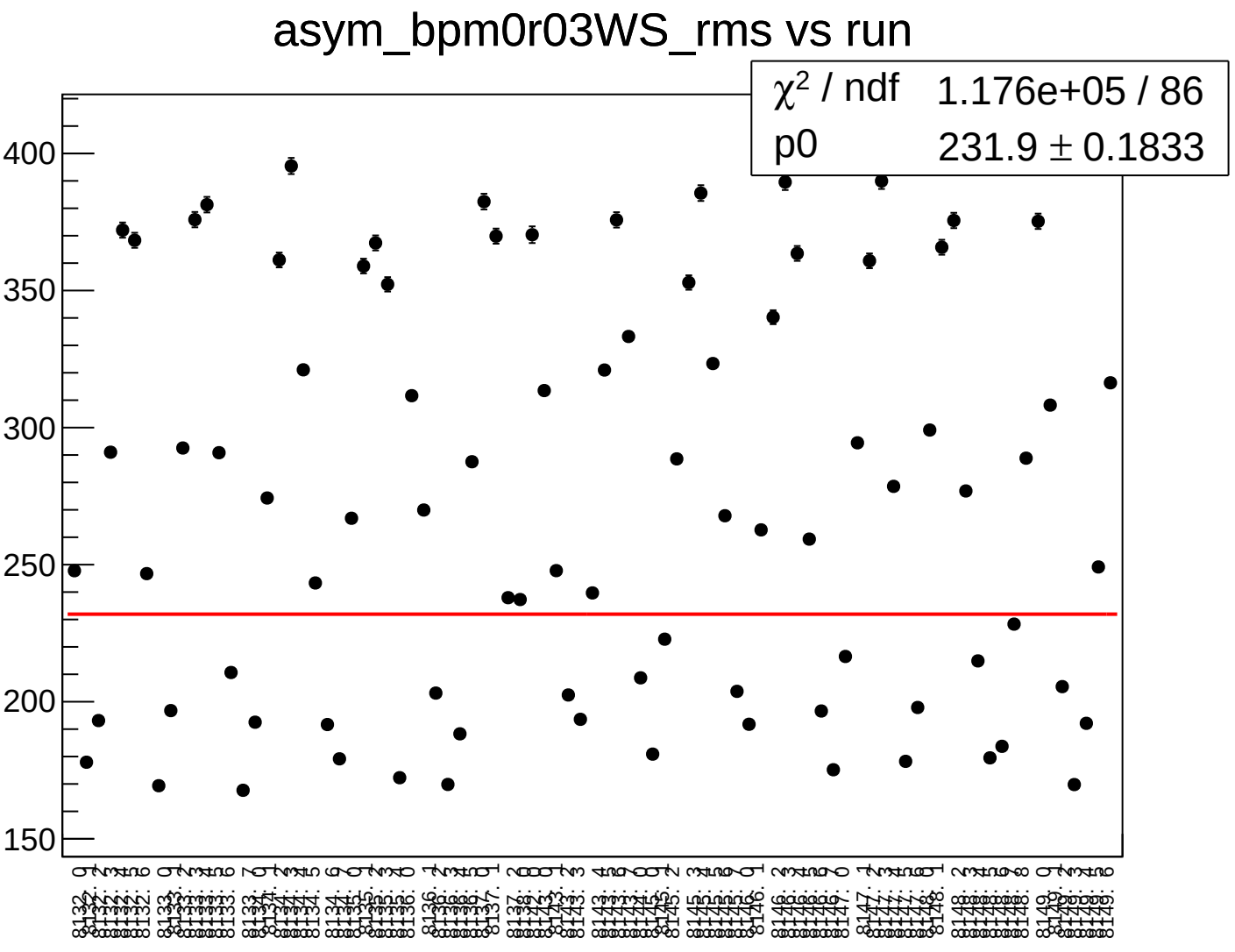

asym_bpm0l10WS_mean vs run
χ² / ndf 2621 / 86
p0 −2443 ± 209.9
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean −1902
Std Dev 0
10
5
0
−5
−10
−15

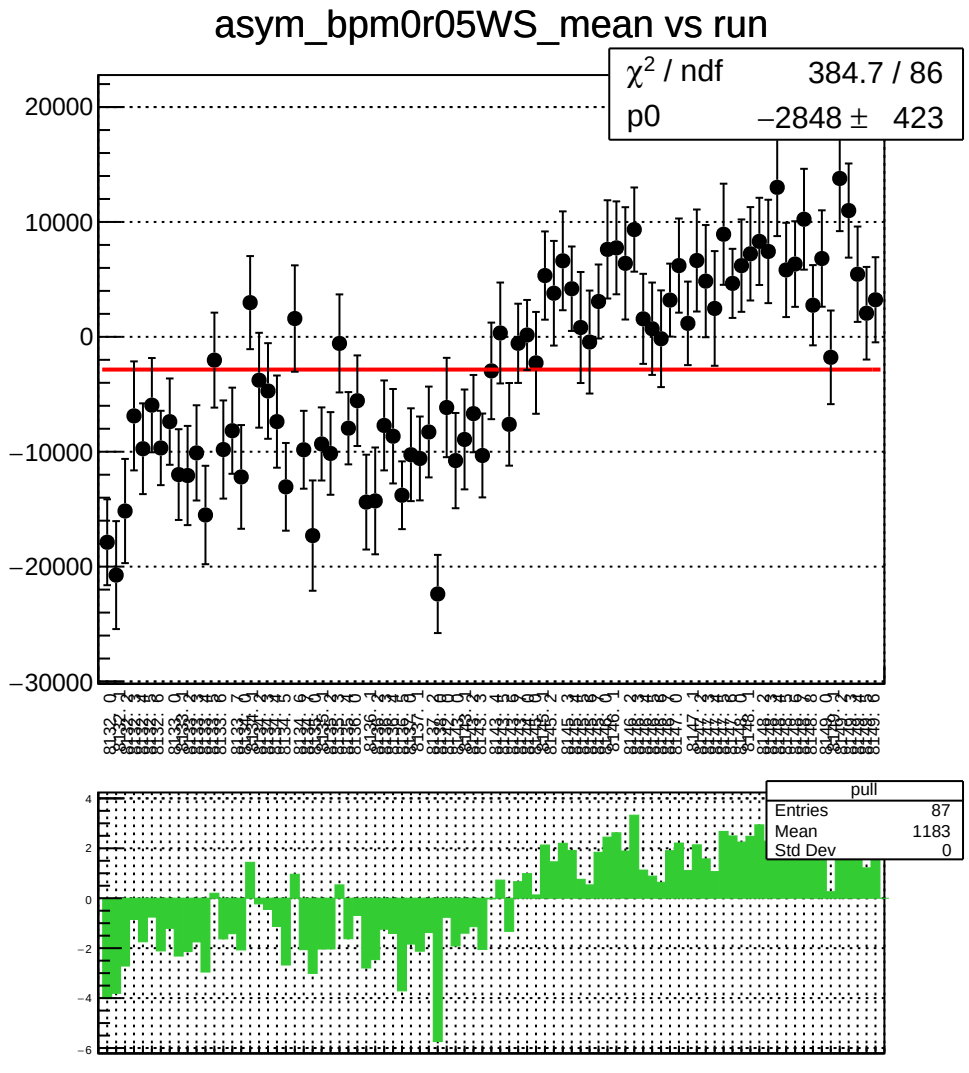

pull1D
Entries 87
Mean 0.2131
Std Dev 4.718
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

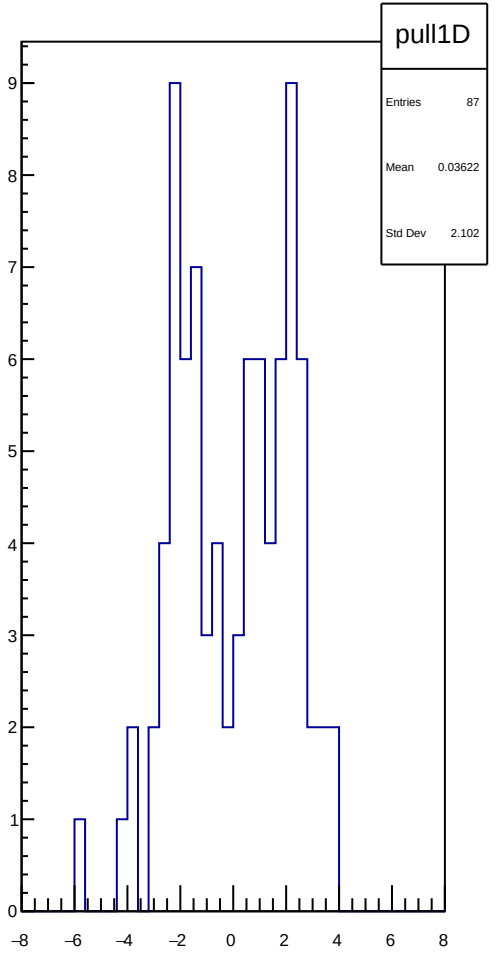

asym_bpm0l10WS_rms vs run
χ² / ndf 6.735e+04 / 86
p0 190.8 ± 0.1484
350
300
250
200
150

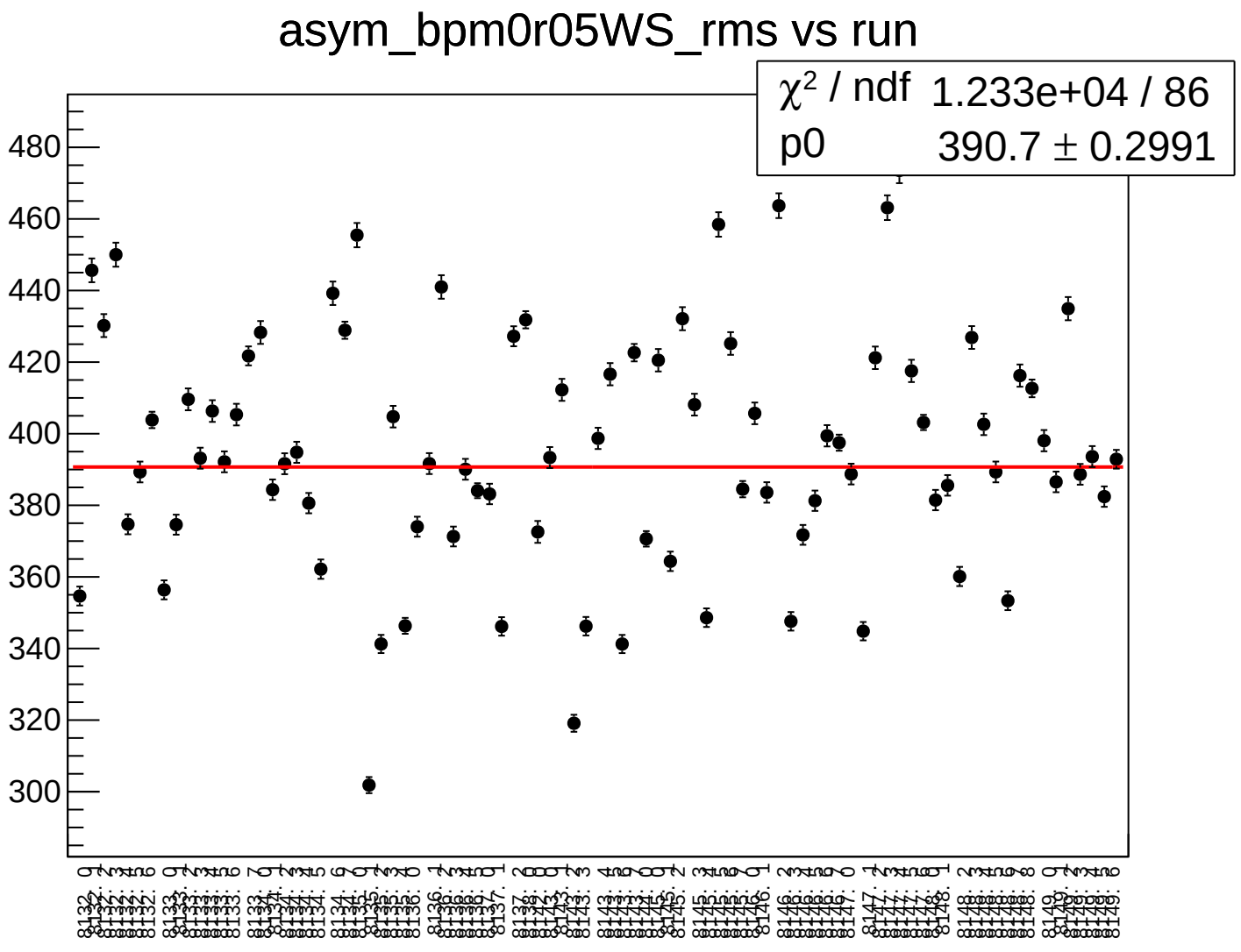

asym_bpm0r03WS_mean vs run
χ² / ndf 1619 / 86
p0 −2604 ± 259.2
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean −4007
Std Dev 0
8
6
4
2
0
−2
−4
−6
−8
−10
−12
−14

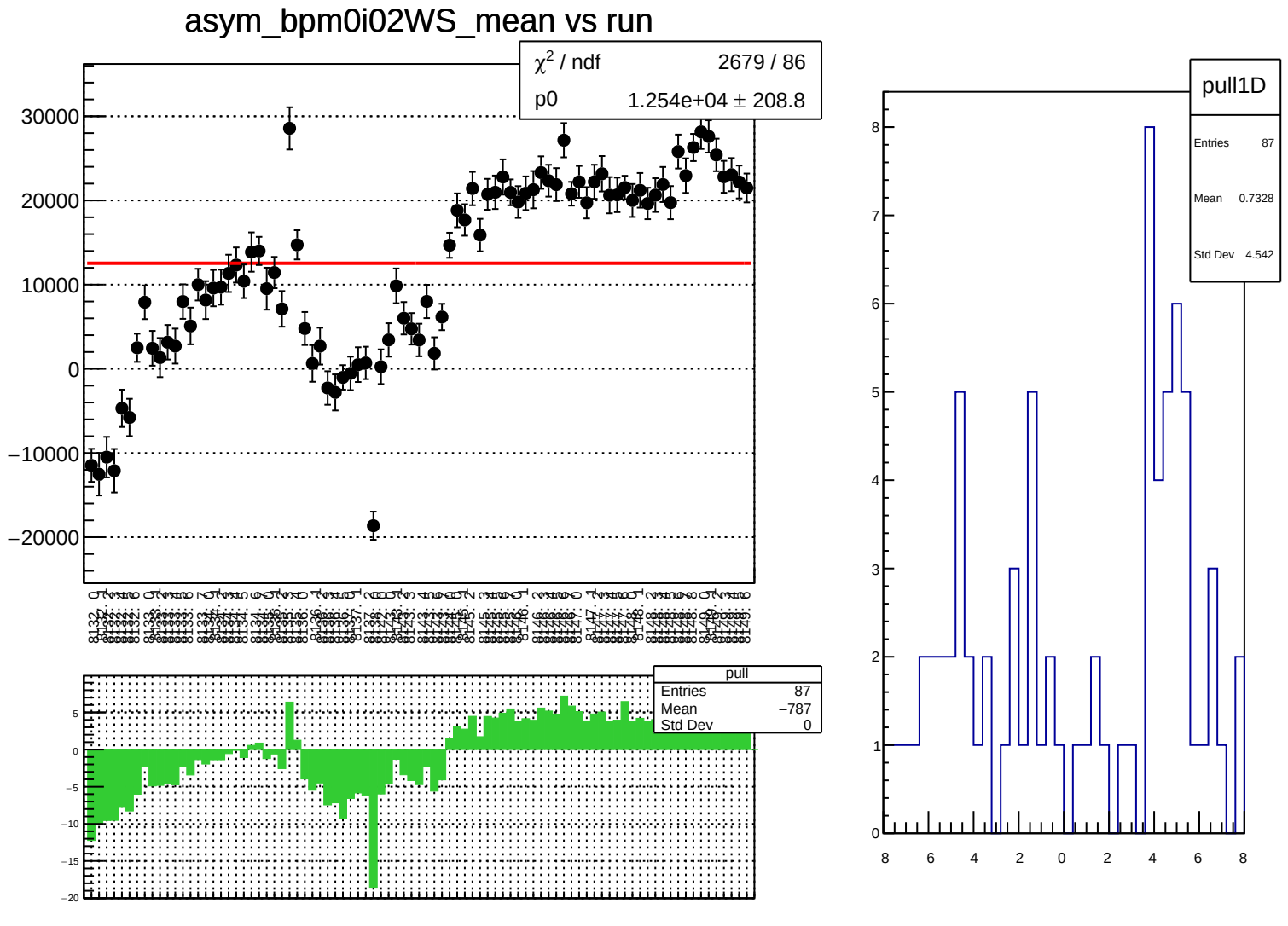

pull1D
Entries 87
Mean 0.3638
Std Dev 3.851
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

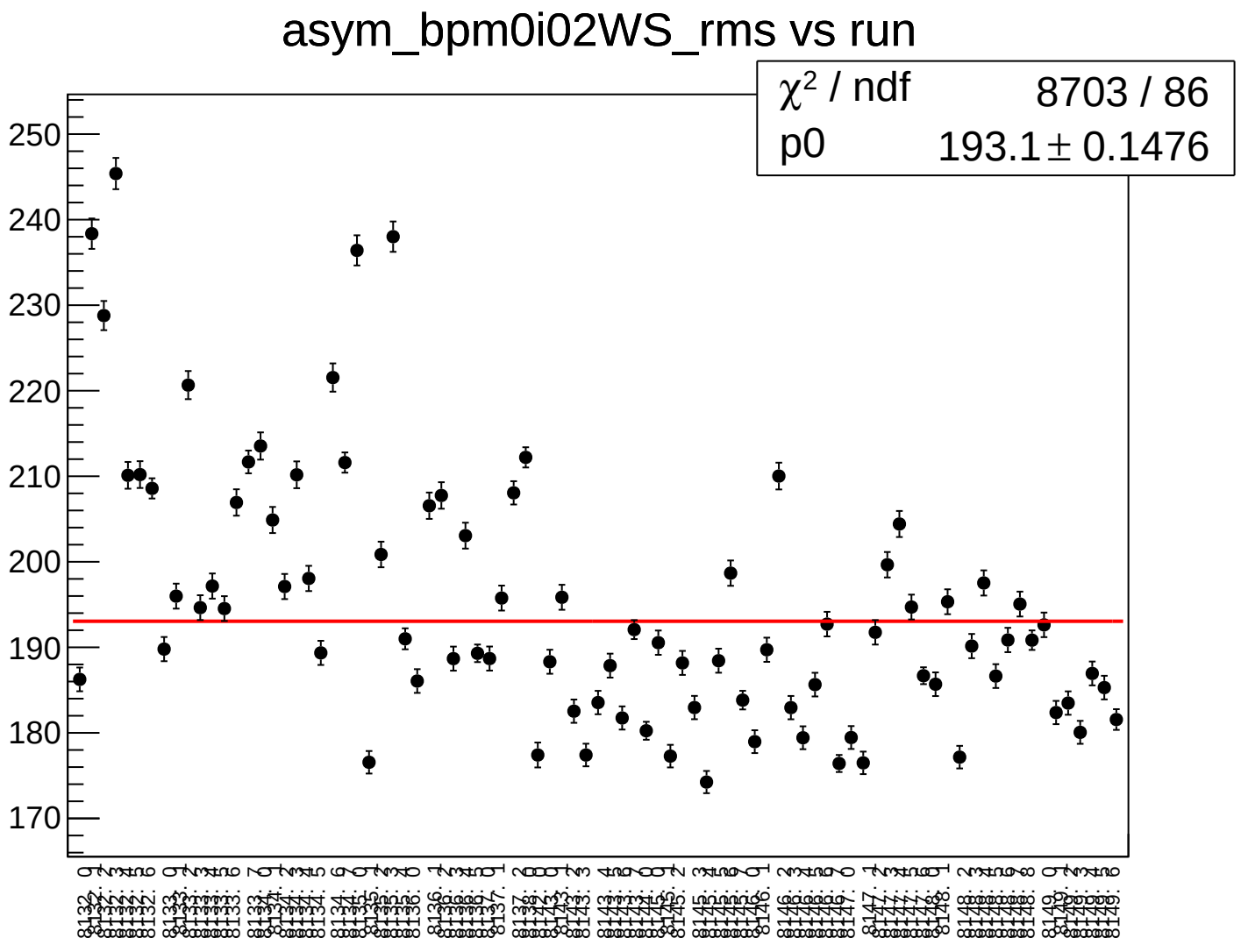

asym_bpm0r03WS_rms vs run
χ² / ndf 1.176e+05 / 86
p0 231.9 ± 0.1833
400
350
300
250
200
150

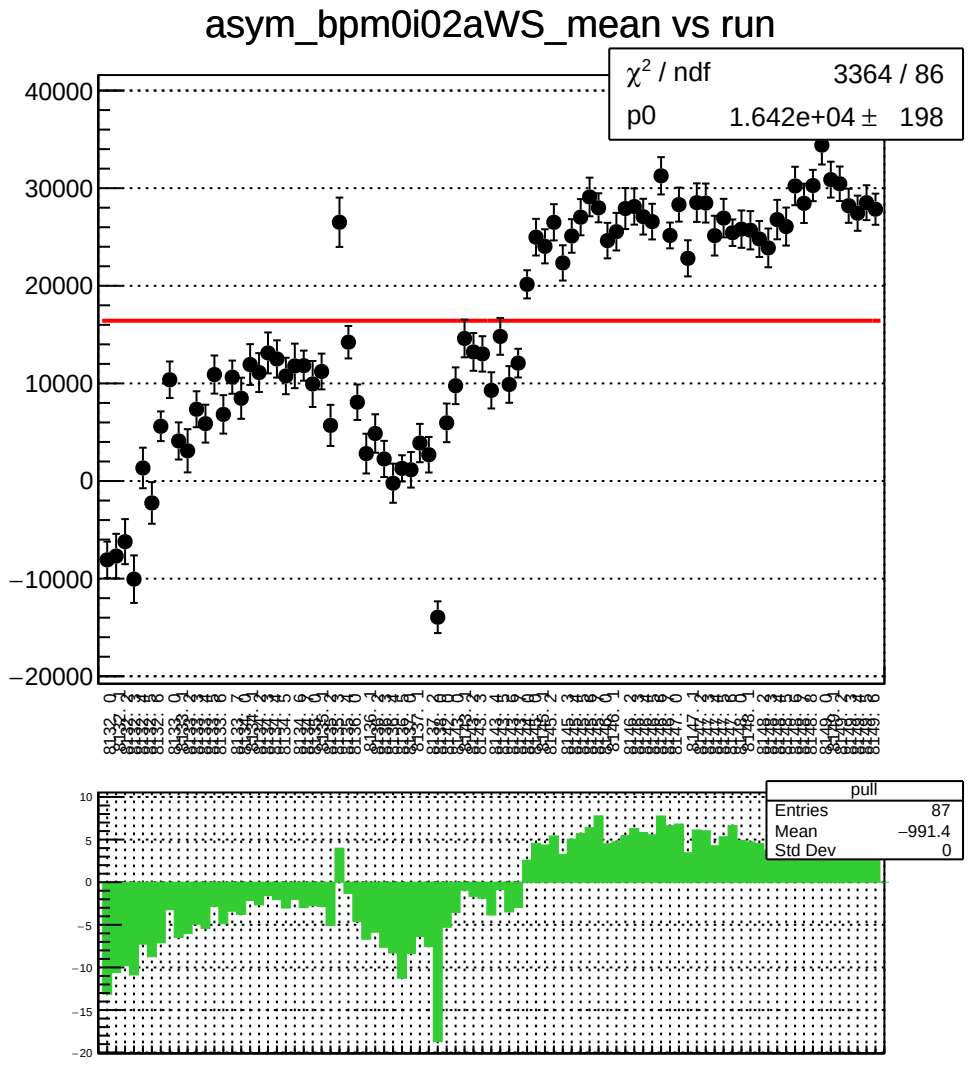

asym_bpm0r05WS_mean vs run
χ² / ndf 384.7 / 86
p0 −2848 ± 423
pull
Entries 87
Mean 1183
Std Dev 0

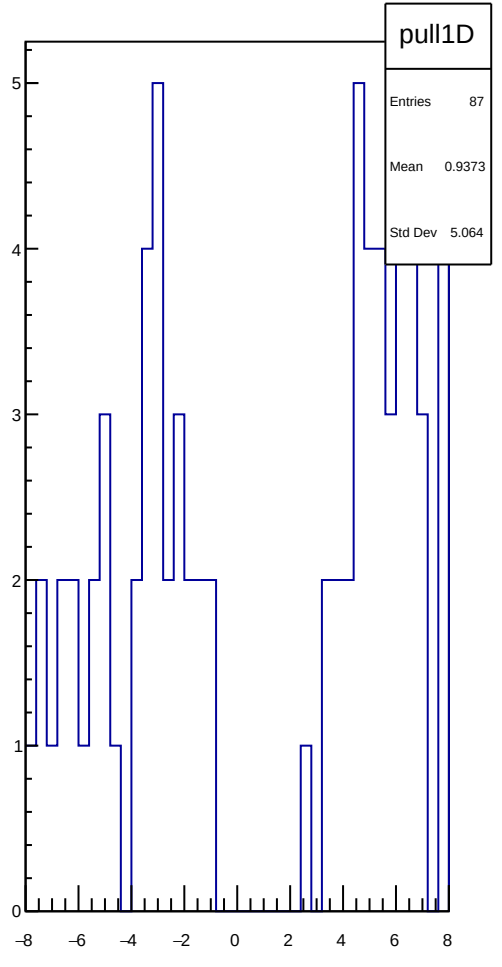

pull1D
Entries 87
Mean 0.03622
Std Dev 2.102

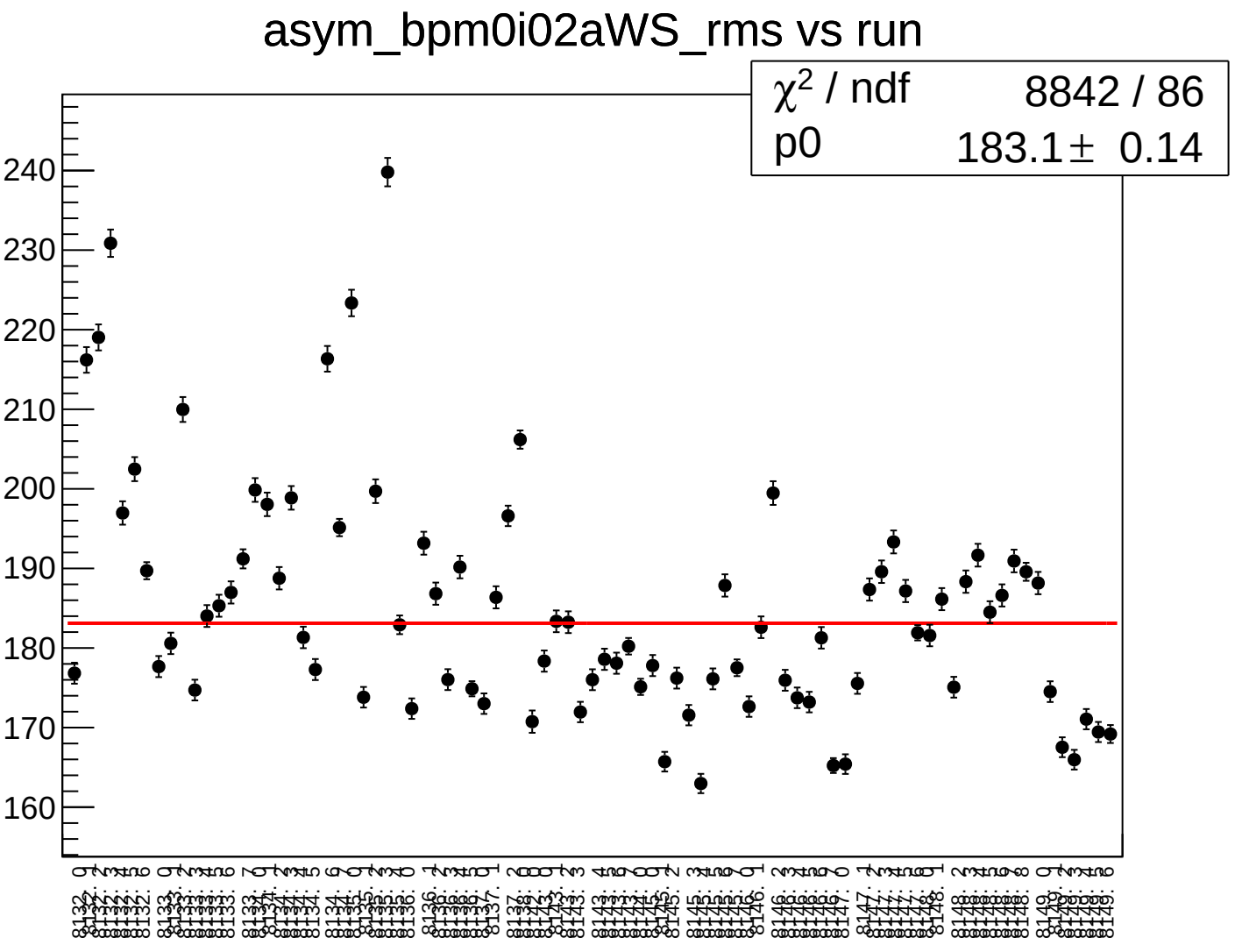

asym_bpm0r05WS_rms vs run
χ² / ndf 1.233e+04 / 86
p0 390.7 ± 0.2991
480
460
440
420
400
380
360
340
320
300

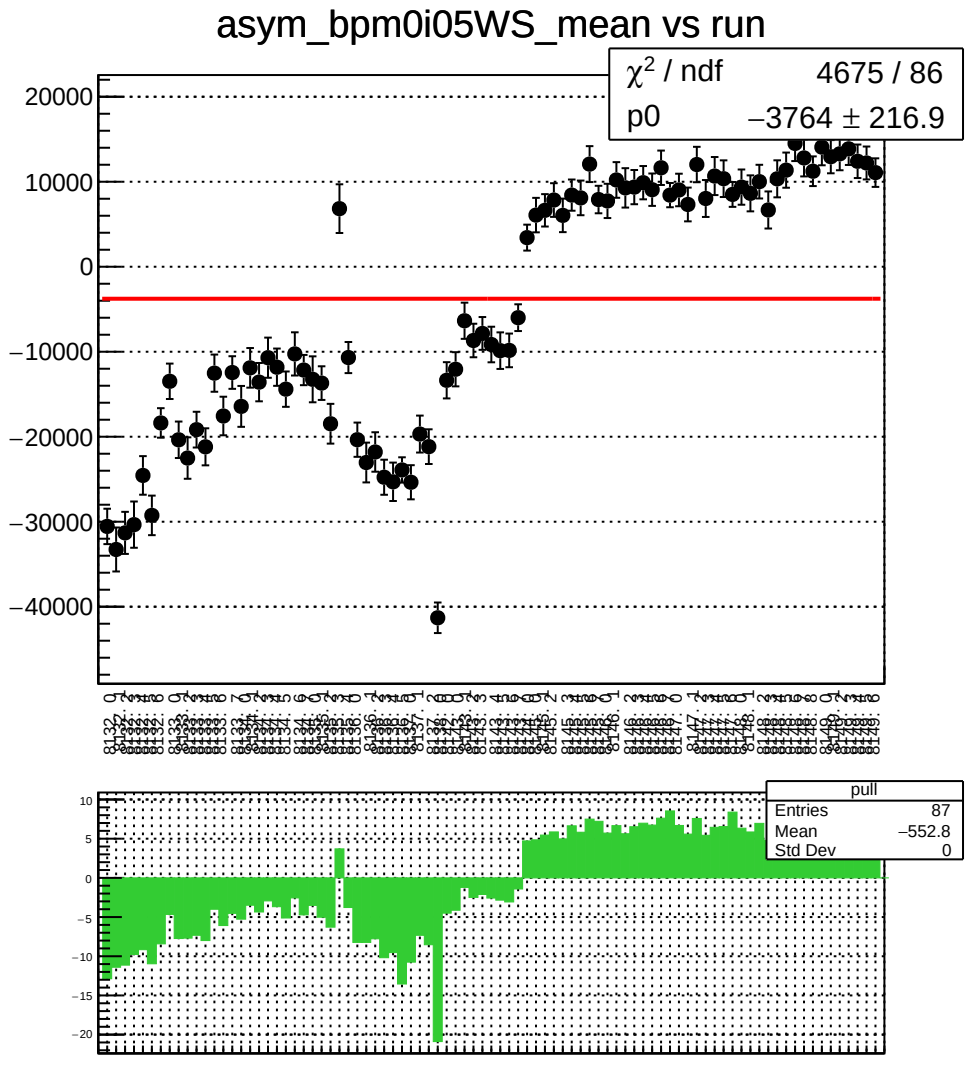

asym_bpm0i02WS_mean vs run
χ² / ndf 2679 / 86
p0 1.254e+04 ± 208.8
30000
20000
10000
0
−10000
−20000
pull
Entries 87
Mean −787
Std Dev 0
5
0
−5
−10
−15
−20
pull1D
Entries 87
Mean 0.7328
Std Dev 4.542
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

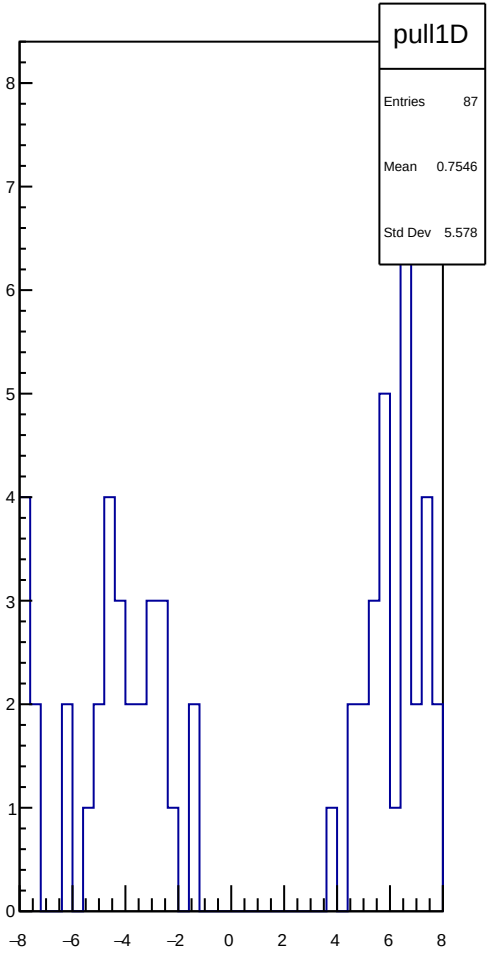

asym_bpm0i02WS_rms vs run
χ² / ndf 8703 / 86
p0 193.1 ± 0.1476
250
240
230
220
210
200
190
180
170

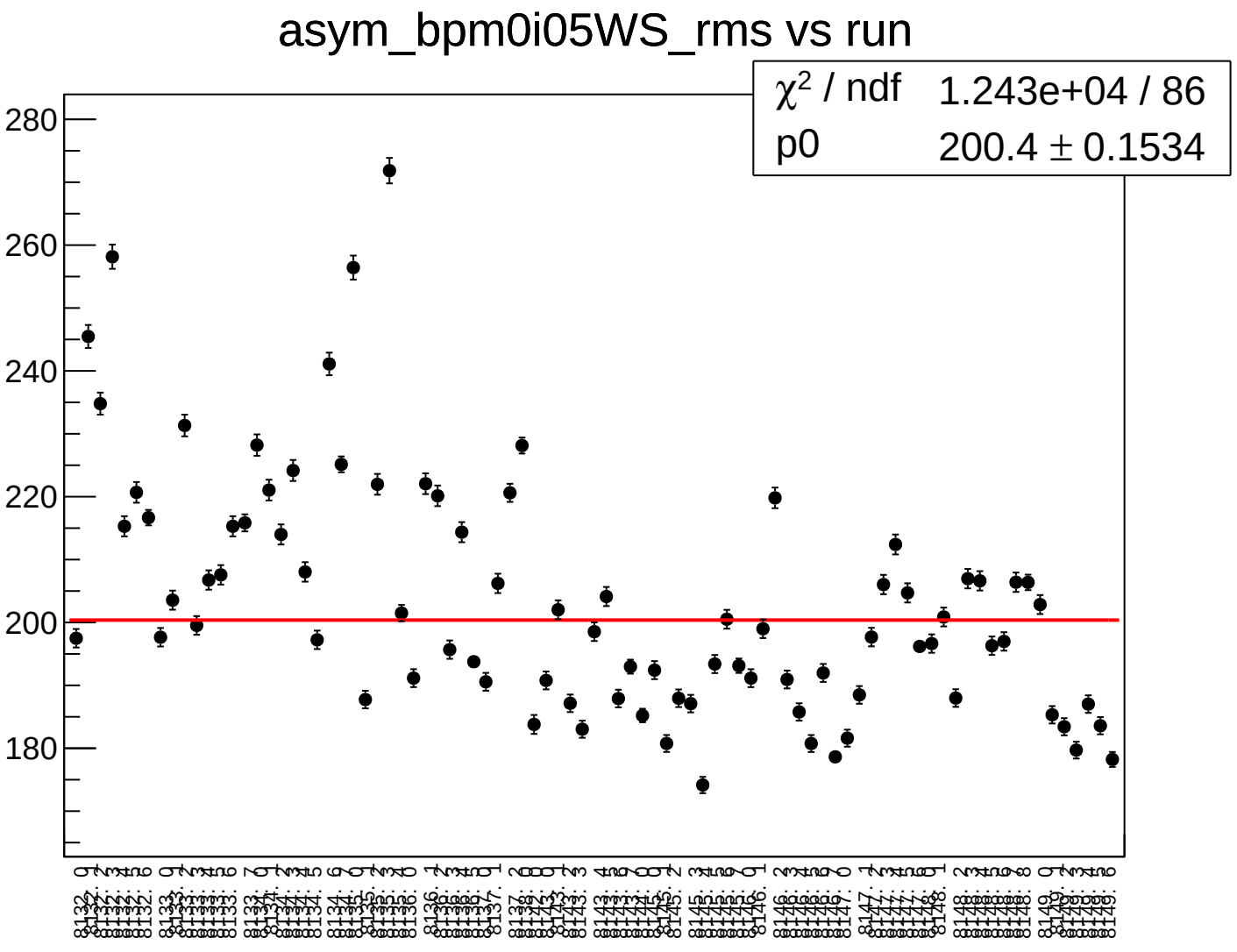

asym_bpm0i02aWS_mean vs run
χ² / ndf 3364 / 86
p0 1.642e+04 ± 198
pull
Entries 87
Mean −991.4
Std Dev 0

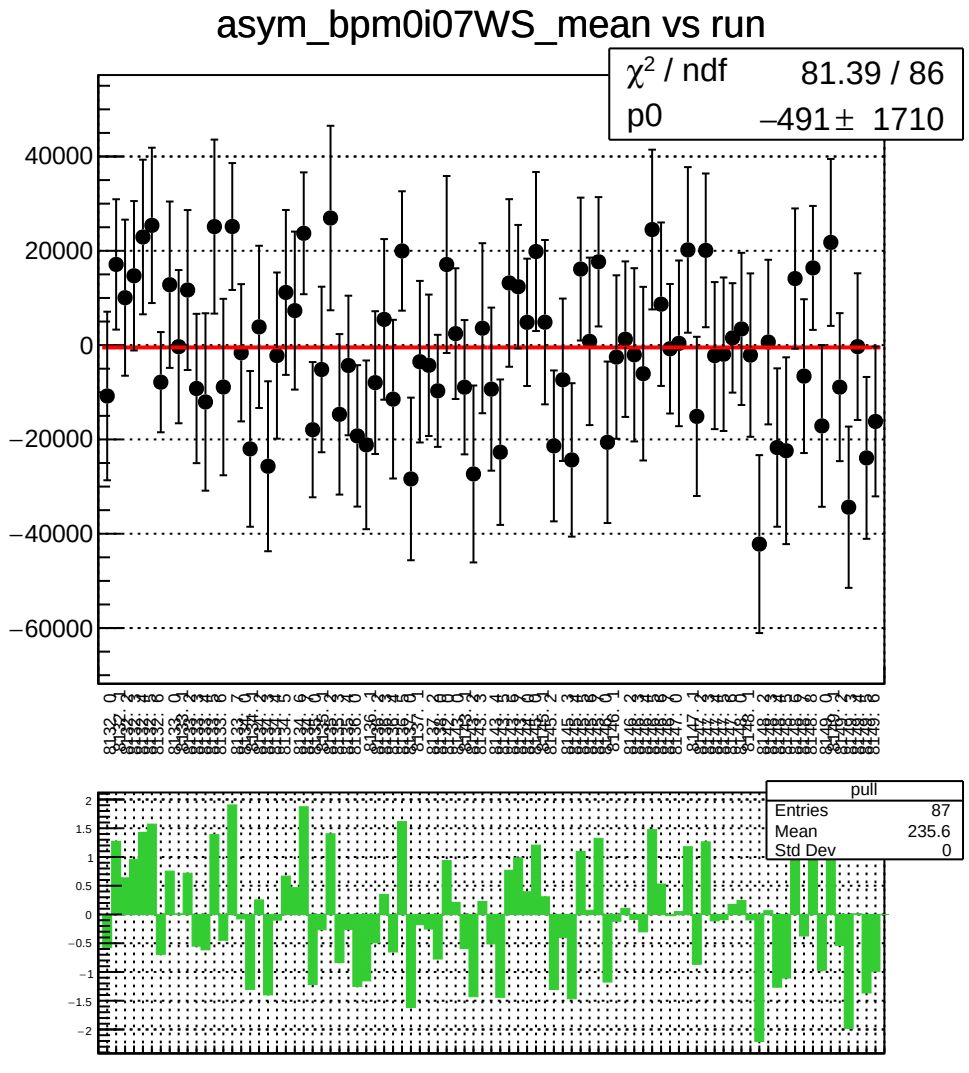

pull1D
Entries 87
Mean 0.9373
Std Dev 5.064

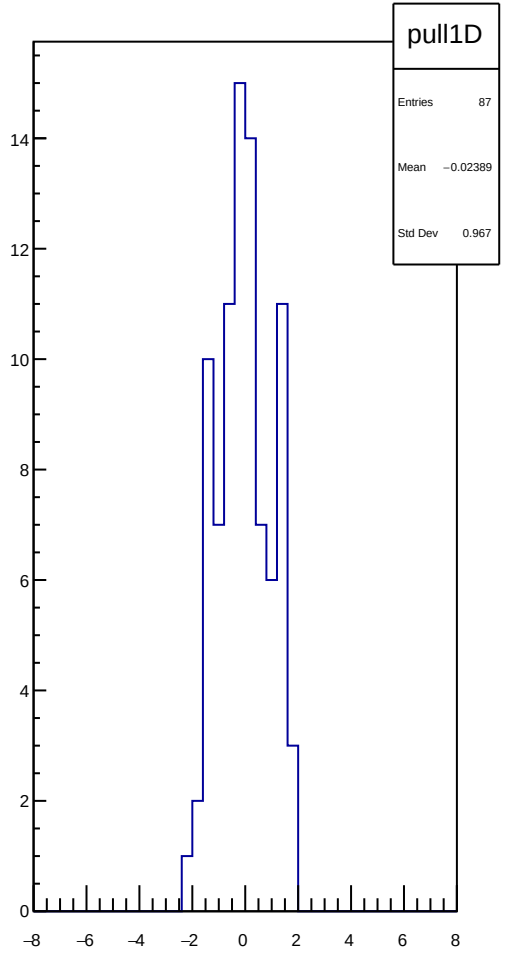

asym_bpm0i02aWS_rms vs run
χ² / ndf 8842 / 86
p0 183.1 ± 0.14
240
230
220
210
200
190
180
170
160

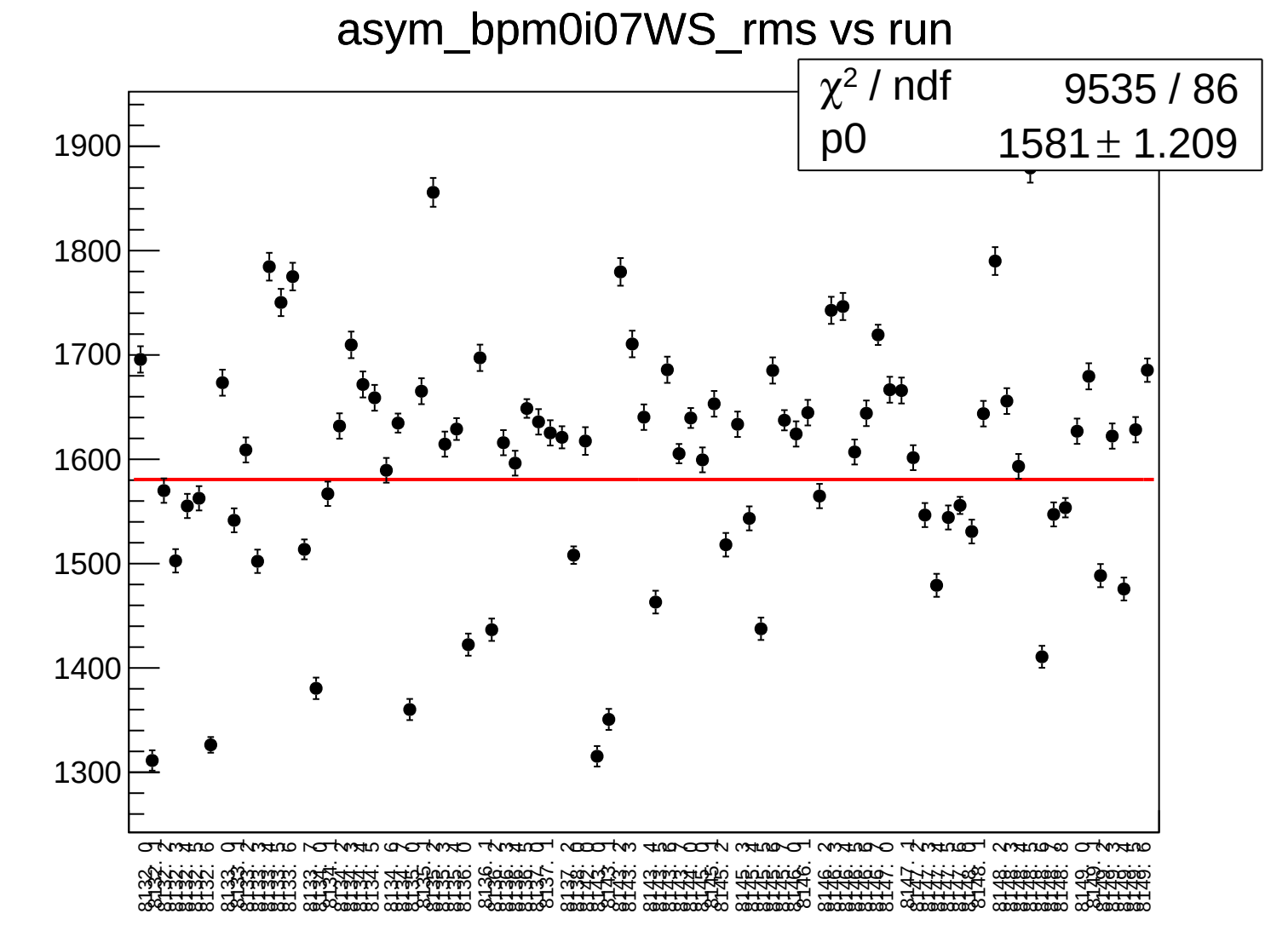

asym_bpm0i05WS_mean vs run
χ² / ndf 4675 / 86
p0 −3764 ± 216.9
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 87
Mean −552.8
Std Dev 0
10
5
0
−5
−10
−15
−20

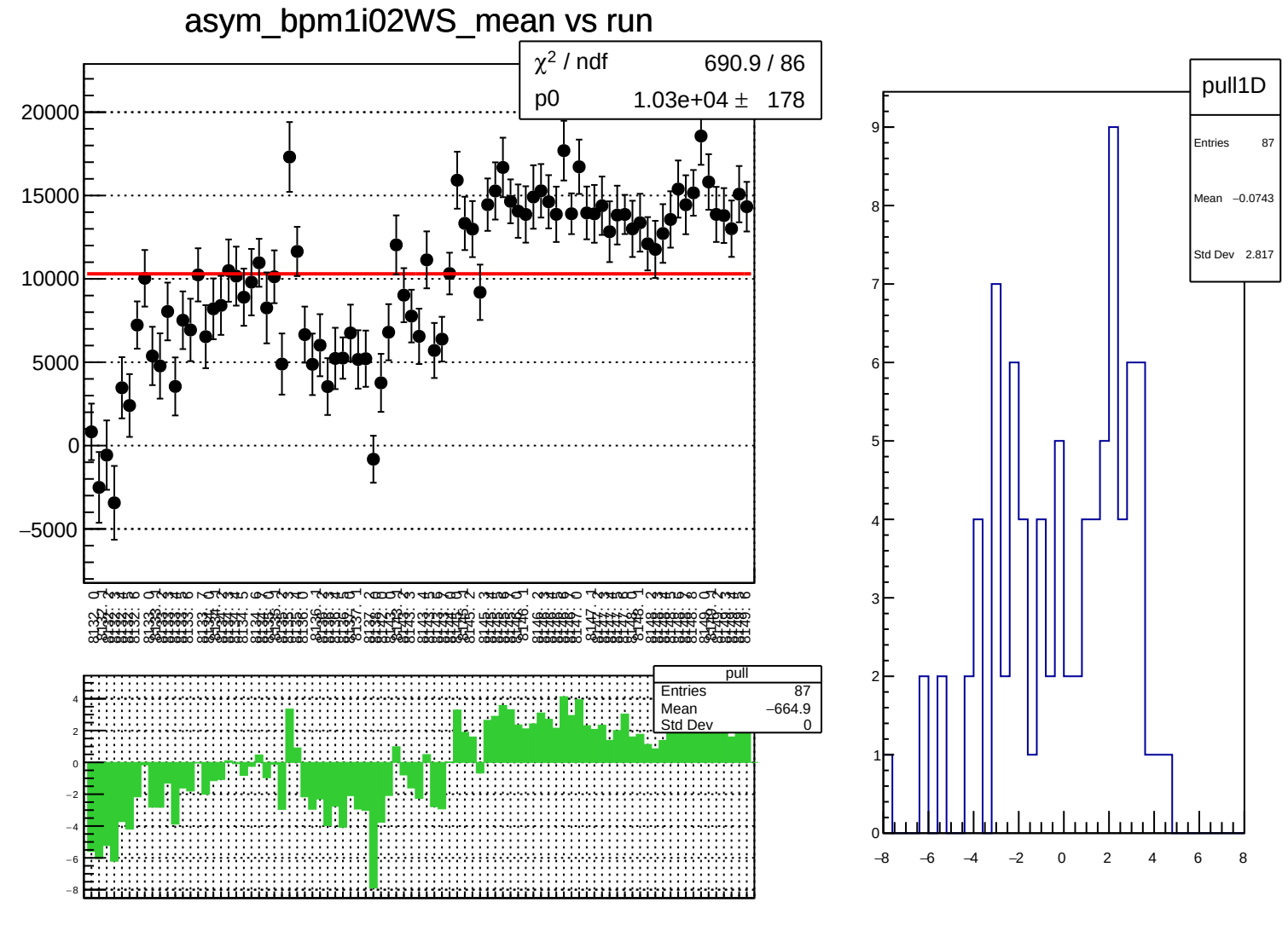

pull1D
Entries 87
Mean 0.7546
Std Dev 5.578
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

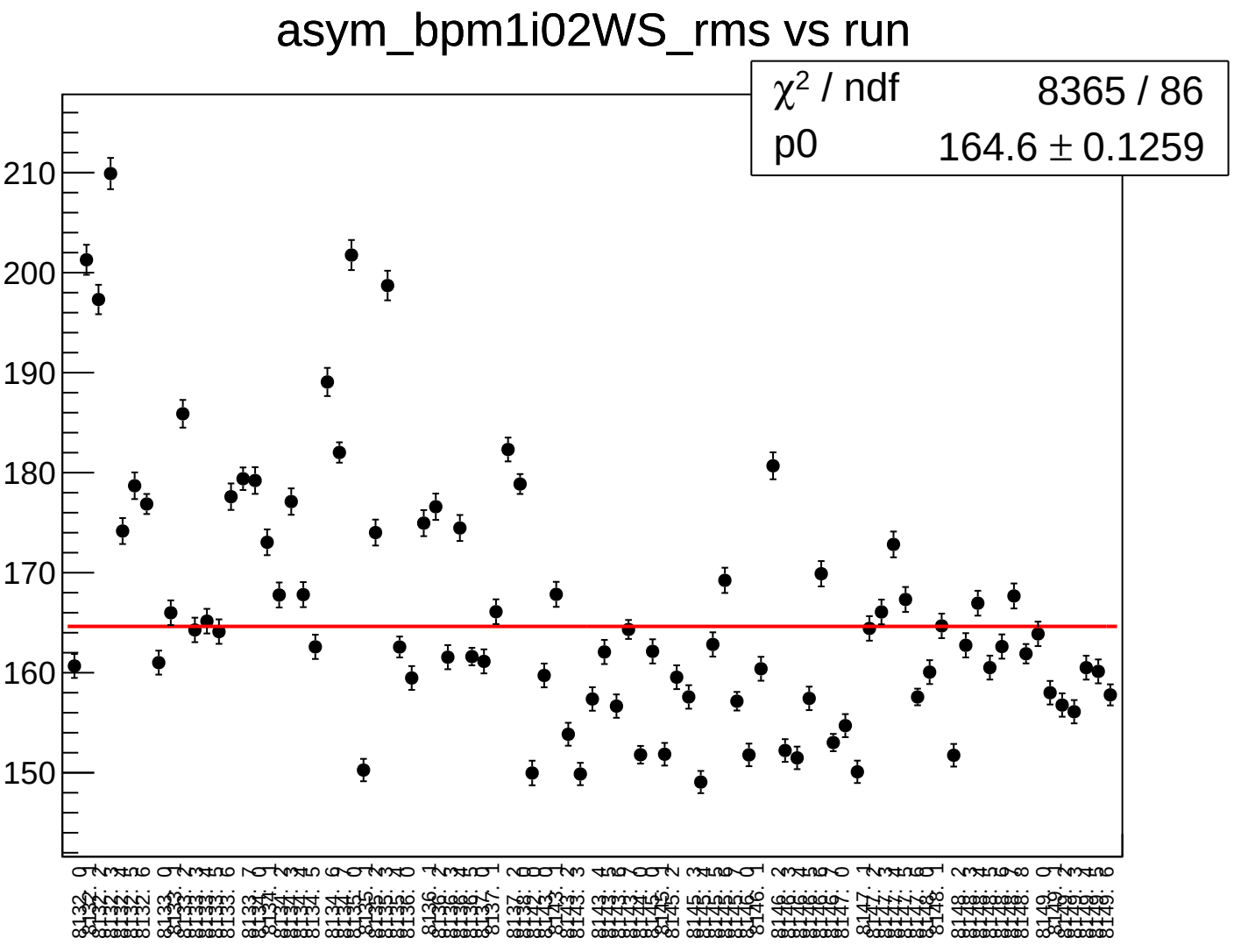

asym_bpm0i05WS_rms vs run
χ² / ndf 1.243e+04 / 86
p0 200.4 ± 0.1534
280
260
240
220
200
180

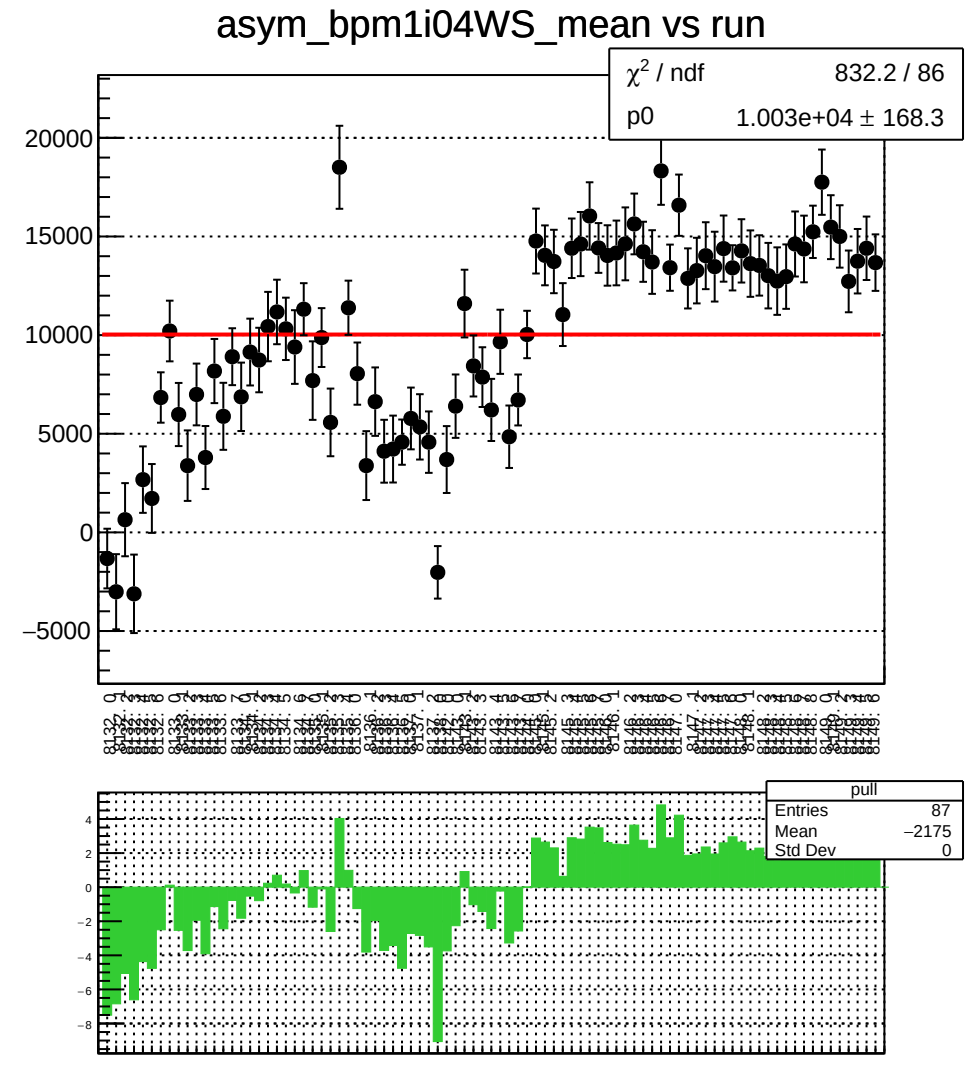

asym_bpm0i07WS_mean vs run
χ² / ndf 81.39 / 86
p0 −491 ± 1710
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 235.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

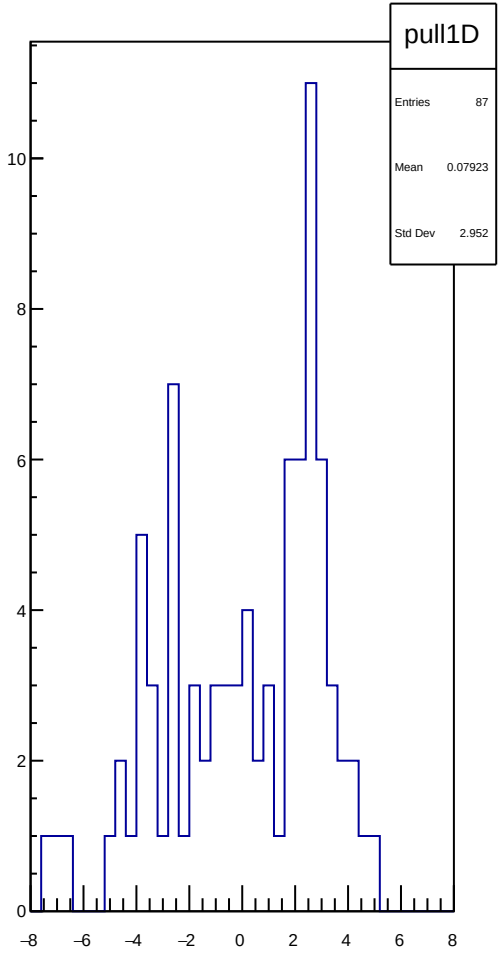

pull1D
Entries 87
Mean −0.02389
Std Dev 0.967
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

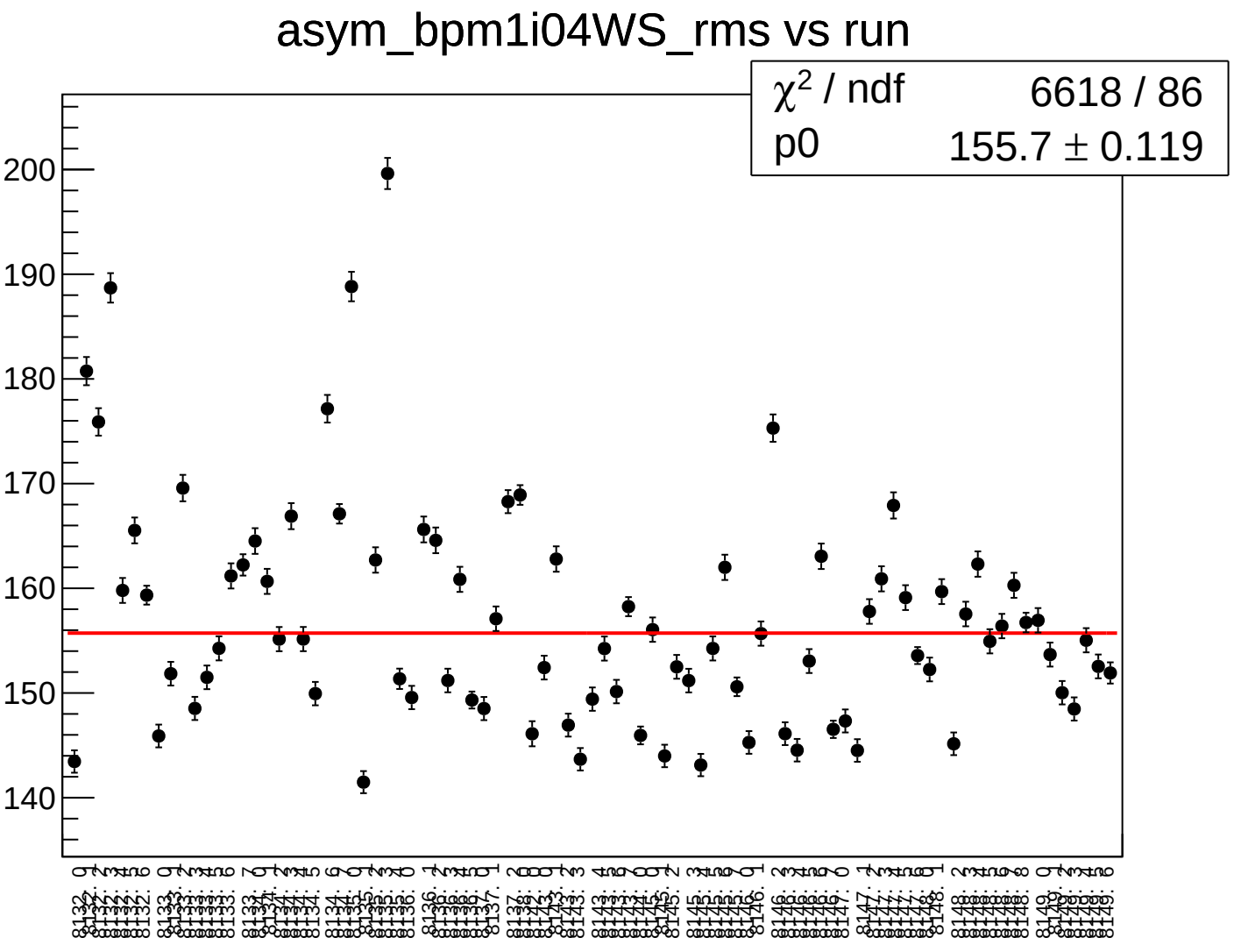

asym_bpm0i07WS_rms vs run
χ² / ndf 9535 / 86
p0 1581 ± 1.209
1900
1800
1700
1600
1500
1400
1300

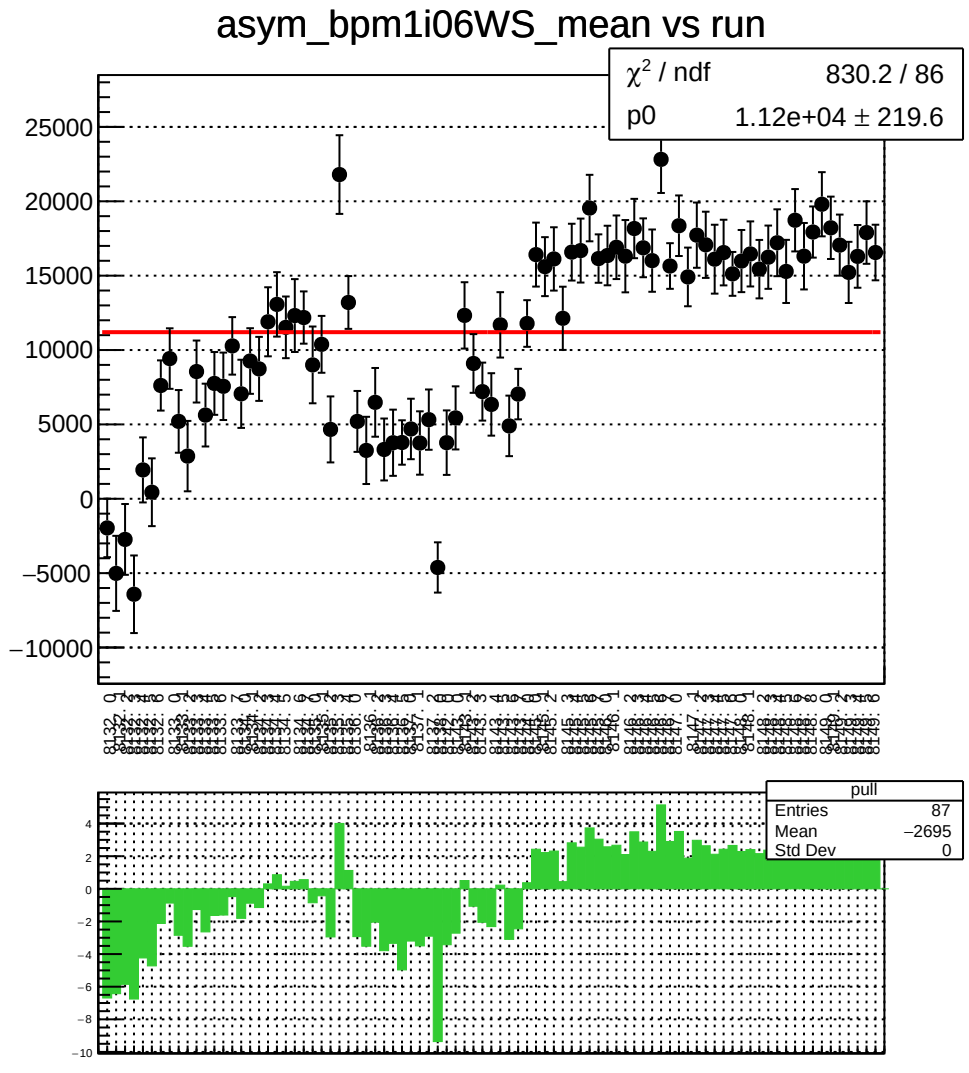

asym_bpm1i02WS_mean vs run
χ² / ndf 690.9 / 86
p0 1.03e+04 ± 178
pull
Entries 87
Mean −664.9
Std Dev 0
pull1D
Entries 87
Mean −0.0743
Std Dev 2.817

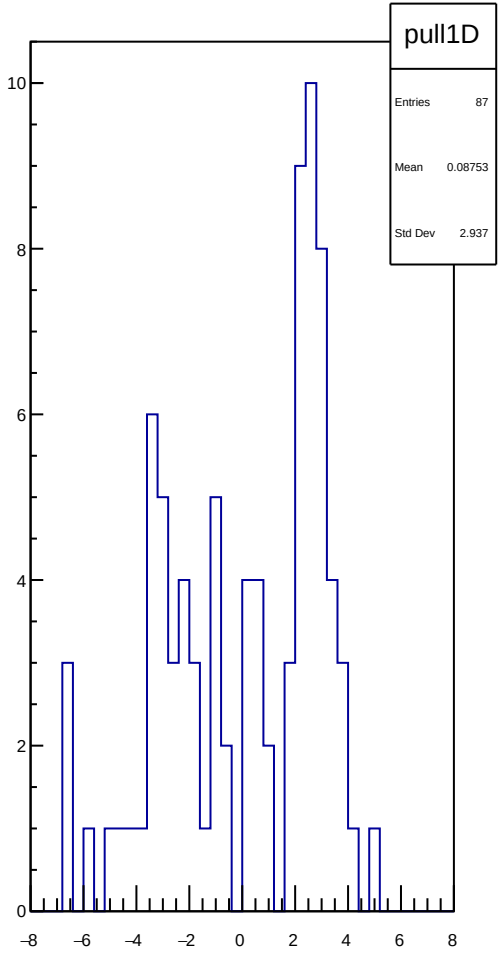

asym_bpm1i02WS_rms vs run
χ² / ndf 8365 / 86
p0 164.6 ± 0.1259
210
200
190
180
170
160
150

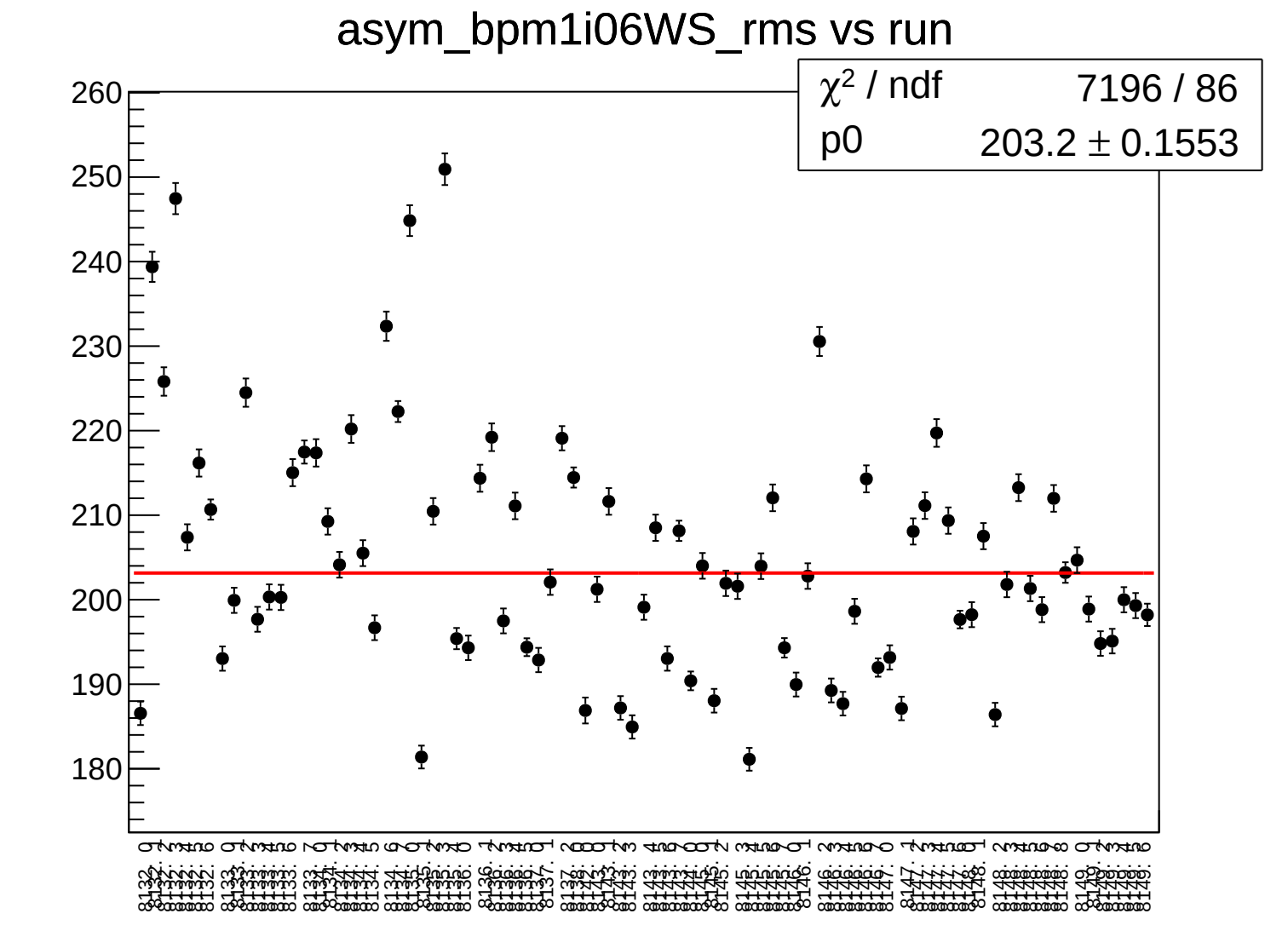

asym_bpm1i04WS_mean vs run
χ² / ndf 832.2 / 86
p0 1.003e+04 ± 168.3
20000
15000
10000
5000
0
−5000
pull
Entries 87
Mean −2175
Std Dev 0
4
2
0
−2
−4
−6
−8

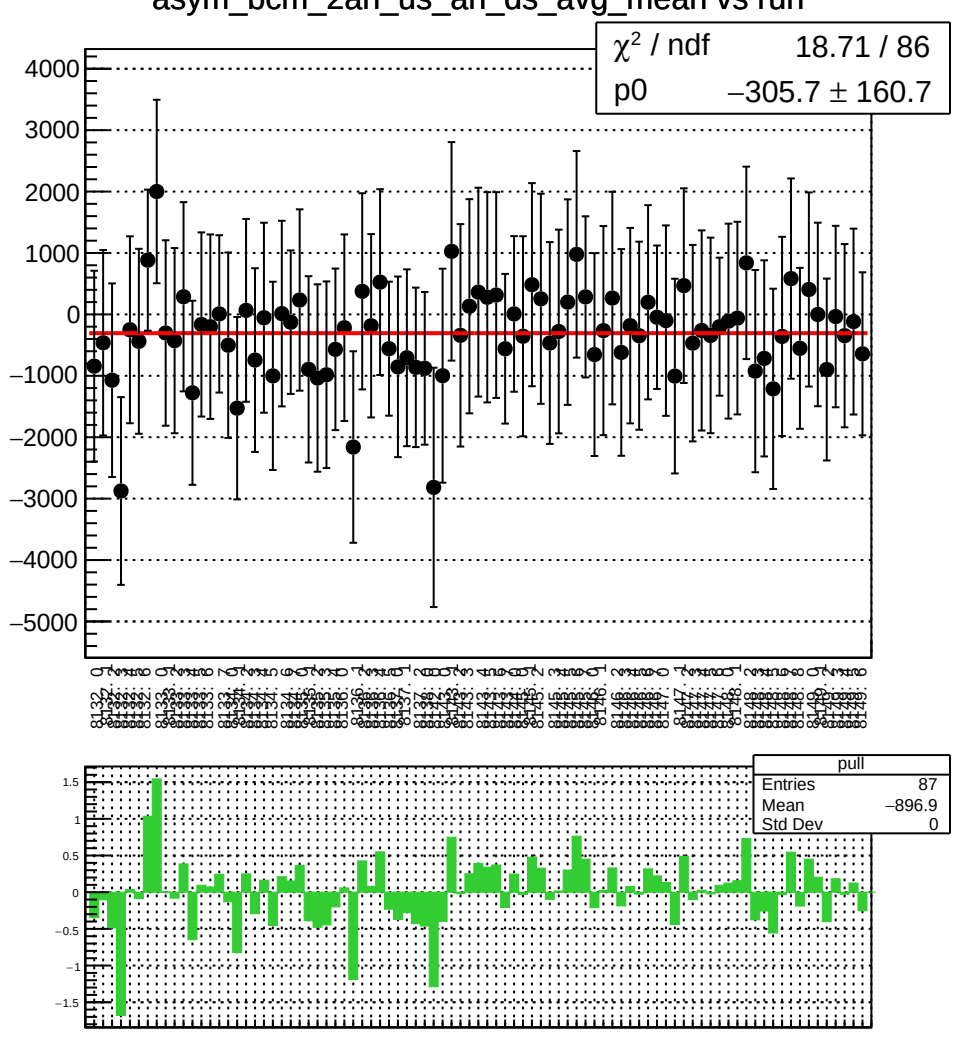

pull1D
Entries 87
Mean 0.07923
Std Dev 2.952
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

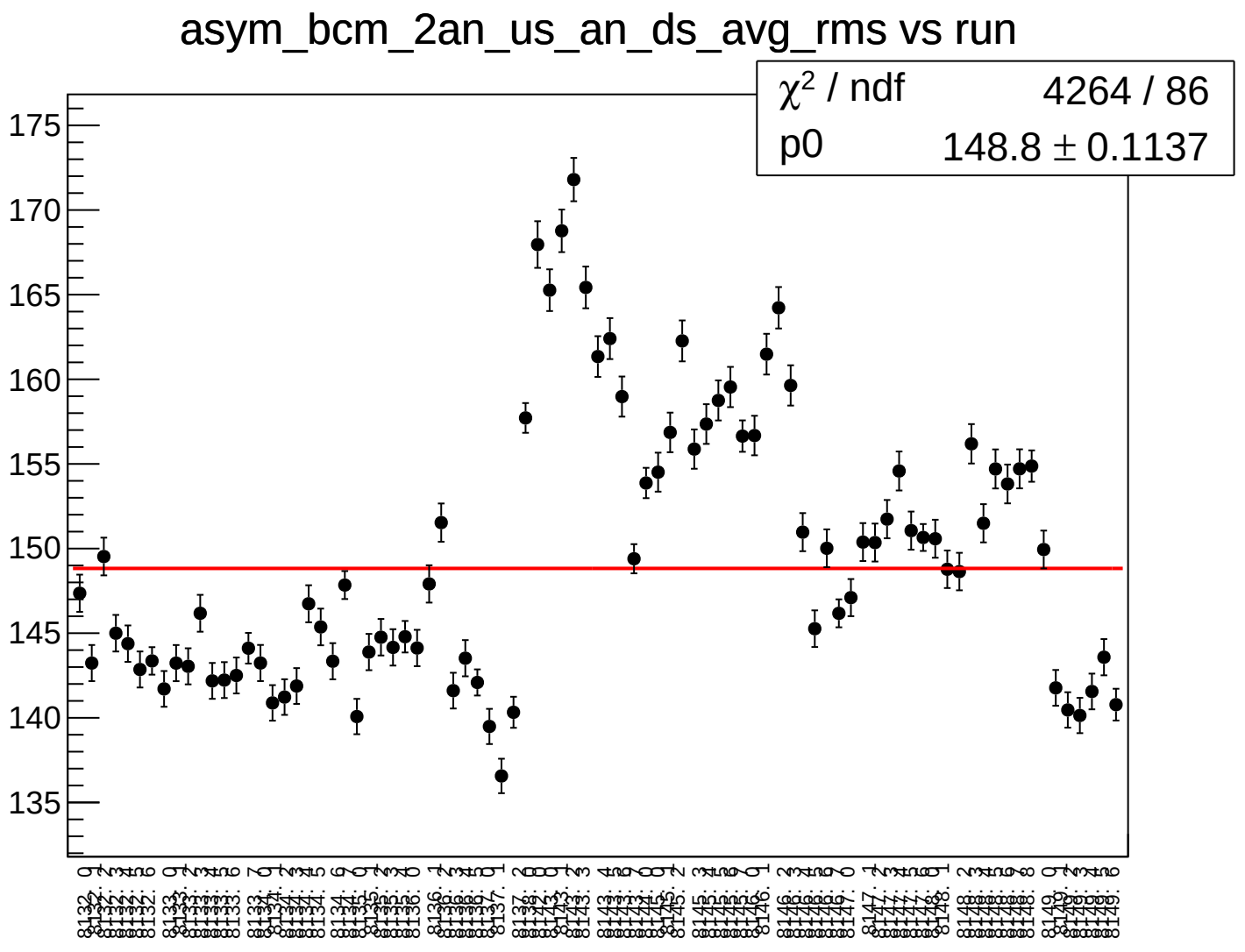

asym_bpm1i04WS_rms vs run
χ² / ndf 6618 / 86
p0 155.7 ± 0.119
200
190
180
170
160
150
140

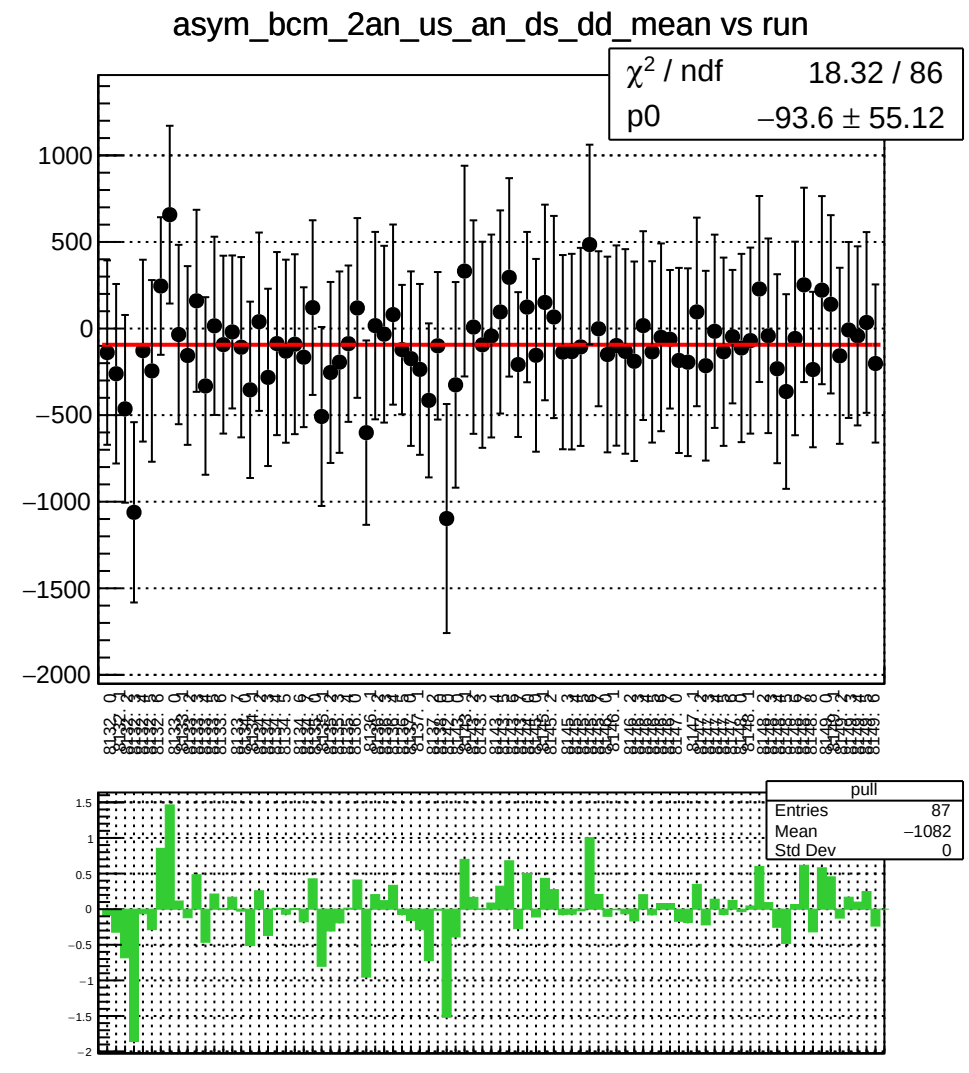

asym_bpm1i06WS_mean vs run
χ² / ndf 830.2 / 86
p0 1.12e+04 ± 219.6
pull
Entries 87
Mean −2695
Std Dev 0

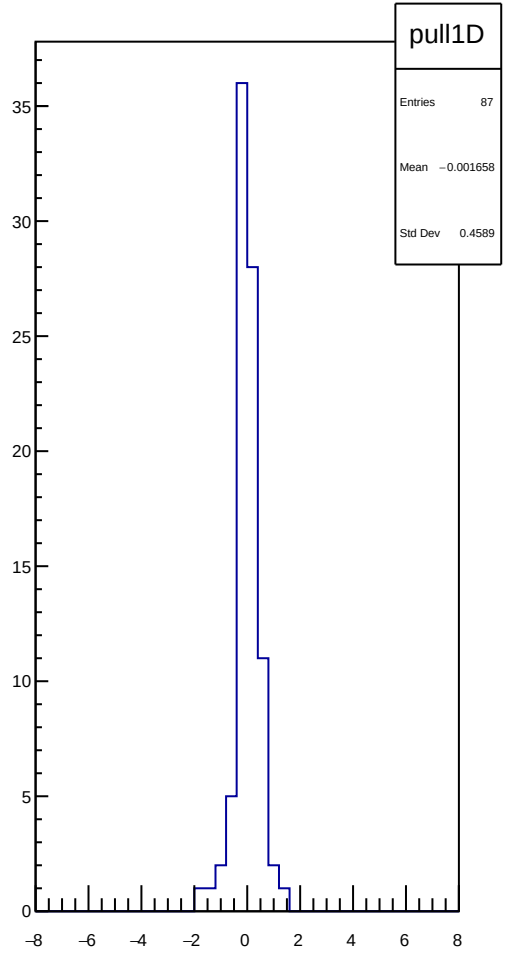

pull1D
Entries 87
Mean 0.08753
Std Dev 2.937

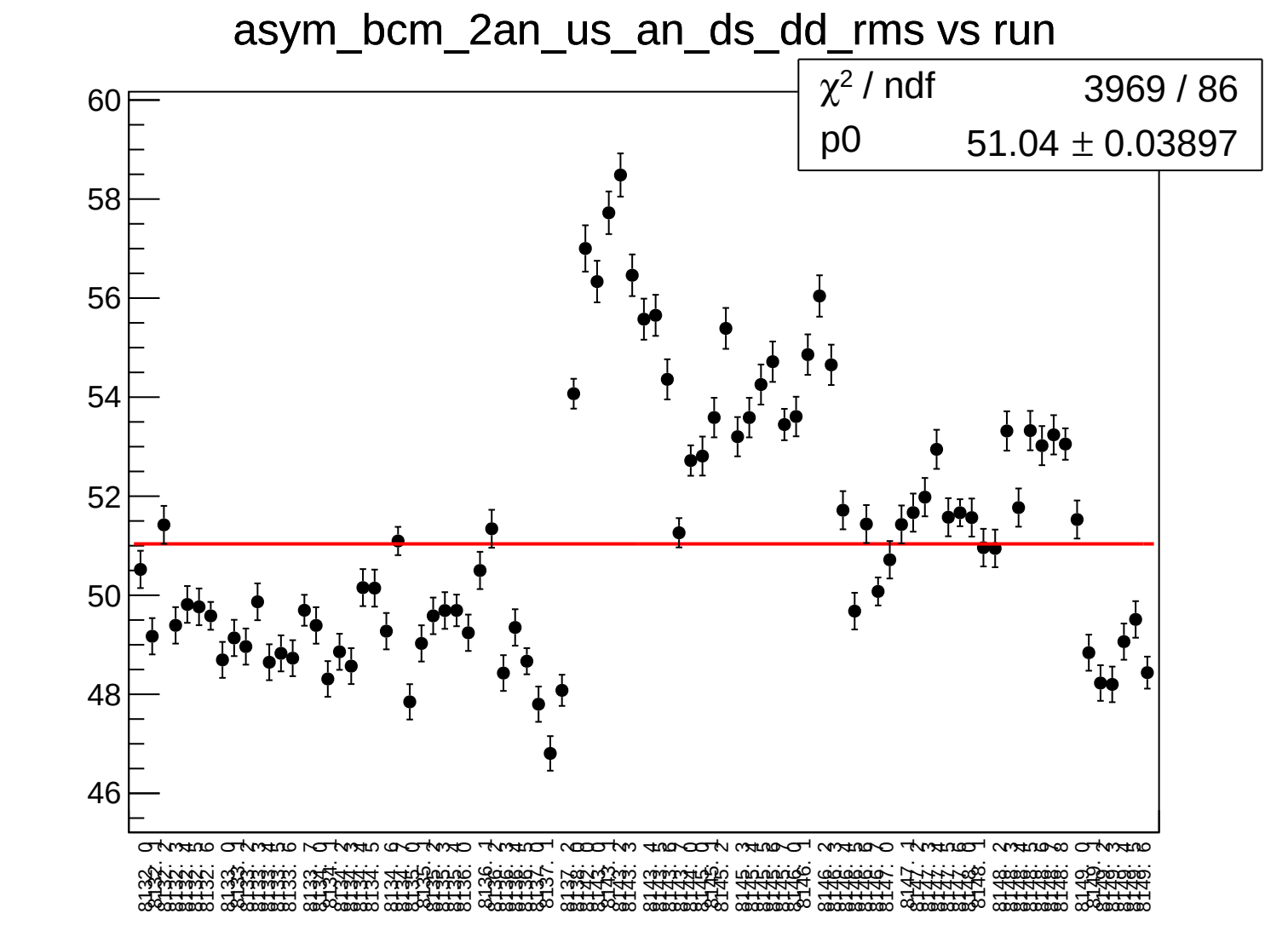

asym_bpm1i06WS_rms vs run
χ² / ndf 7196 / 86
p0 203.2 ± 0.1553
260
250
240
230
220
210
200
190
180

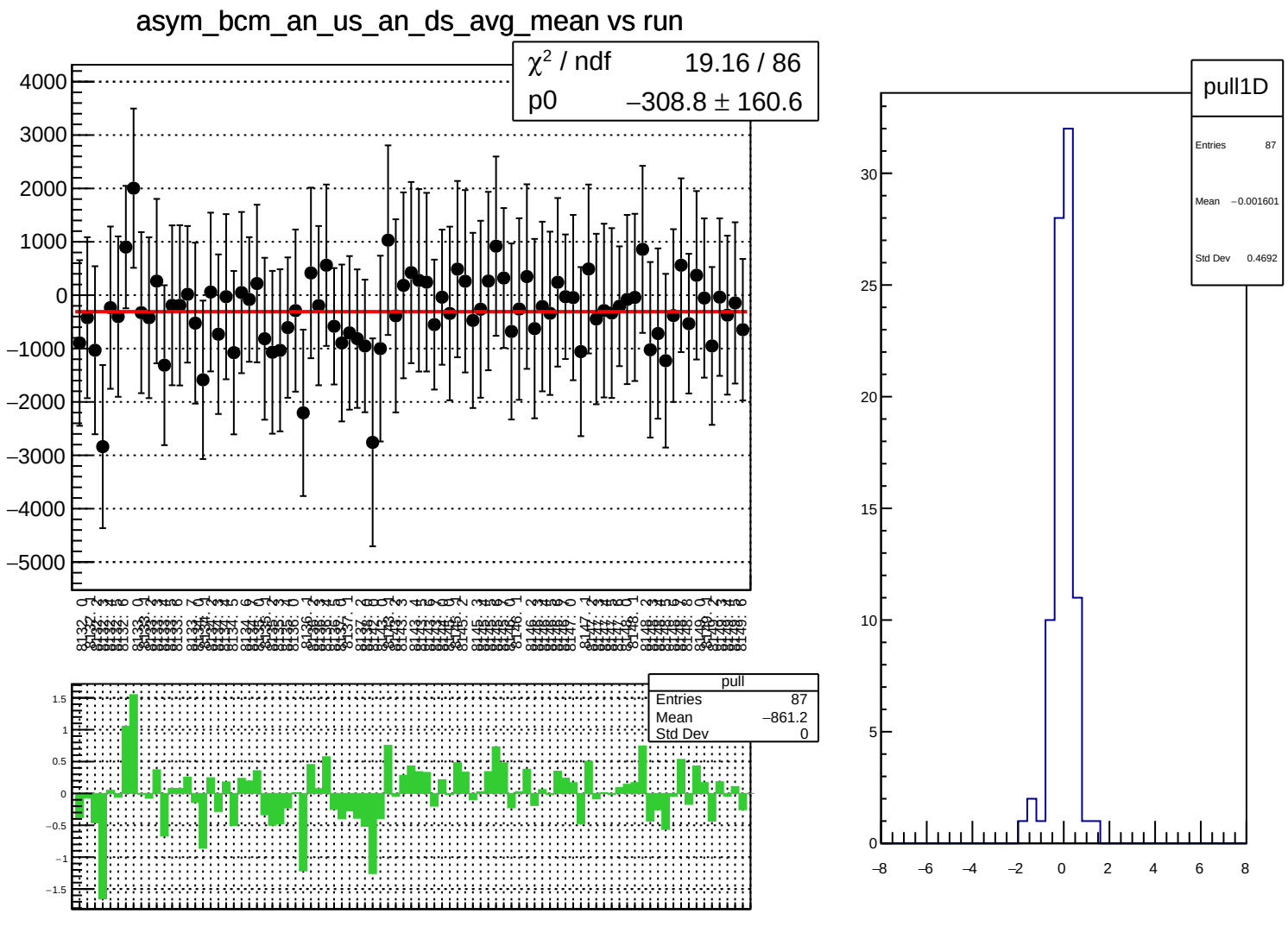

asym_bcm_2an_us_an_ds_avg_mean vs run
χ² / ndf 18.71 / 86
p0 −305.7 ± 160.7
pull
Entries 87
Mean −896.9
Std Dev 0
pull1D
Entries 87
Mean −0.001595
Std Dev 0.4637

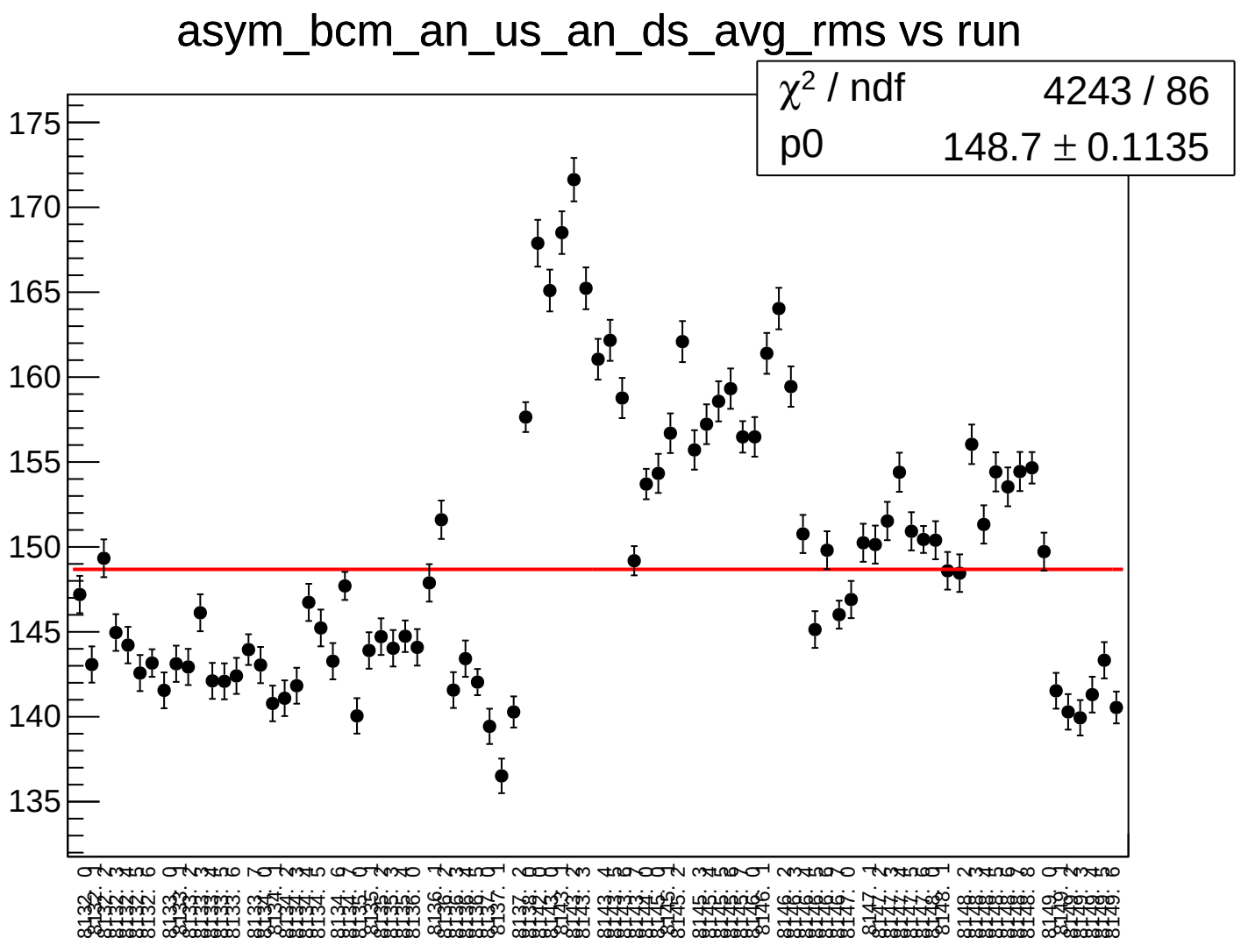

asym_bcm_2an_us_an_ds_avg_rms vs run
χ² / ndf 4264 / 86
p0 148.8 ± 0.1137
175
170
165
160
155
150
145
140
135

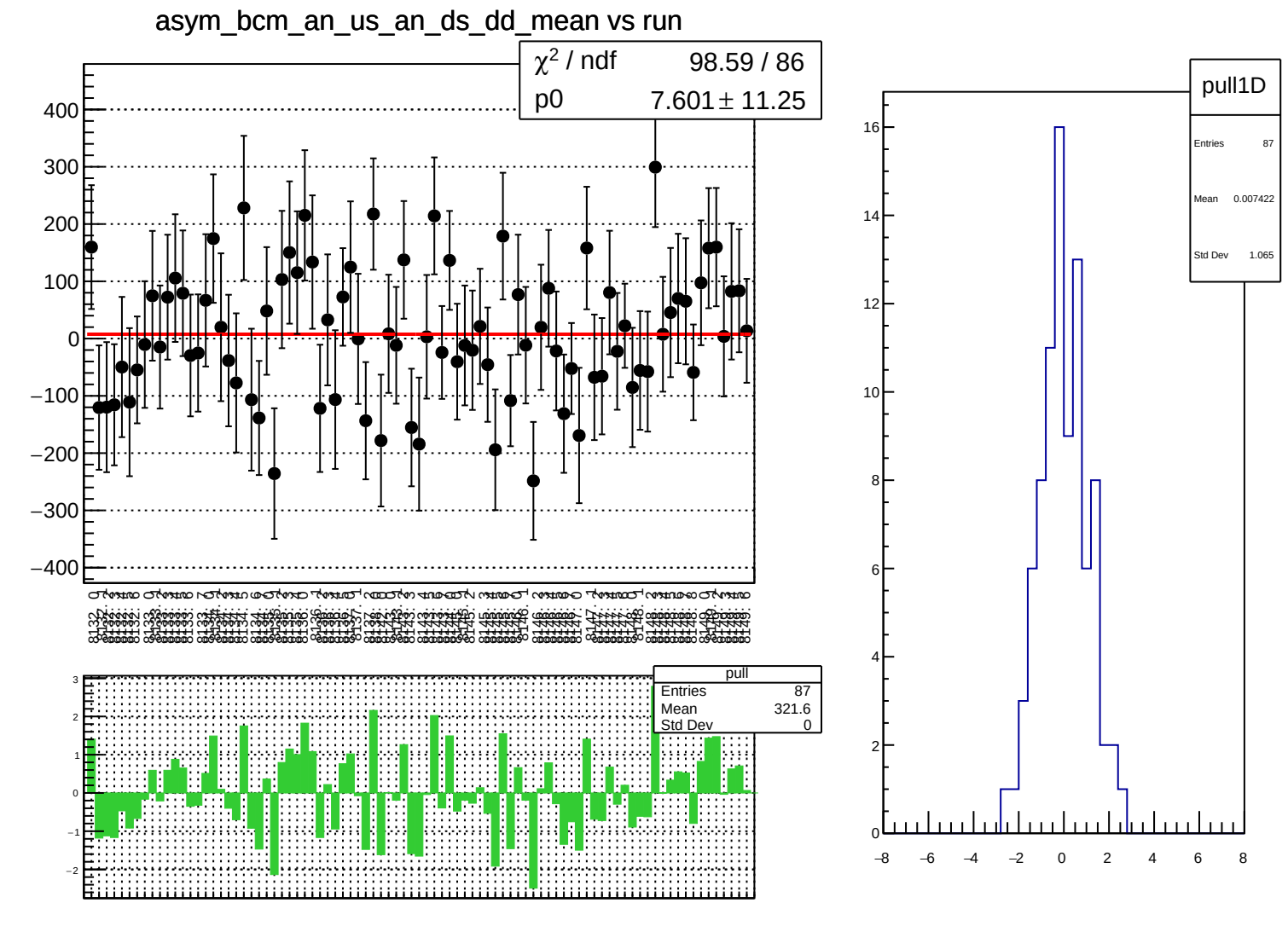

asym_bcm_2an_us_an_ds_dd_mean vs run
χ² / ndf 18.32 / 86
p0 −93.6 ± 55.12
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 87
Mean −1082
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

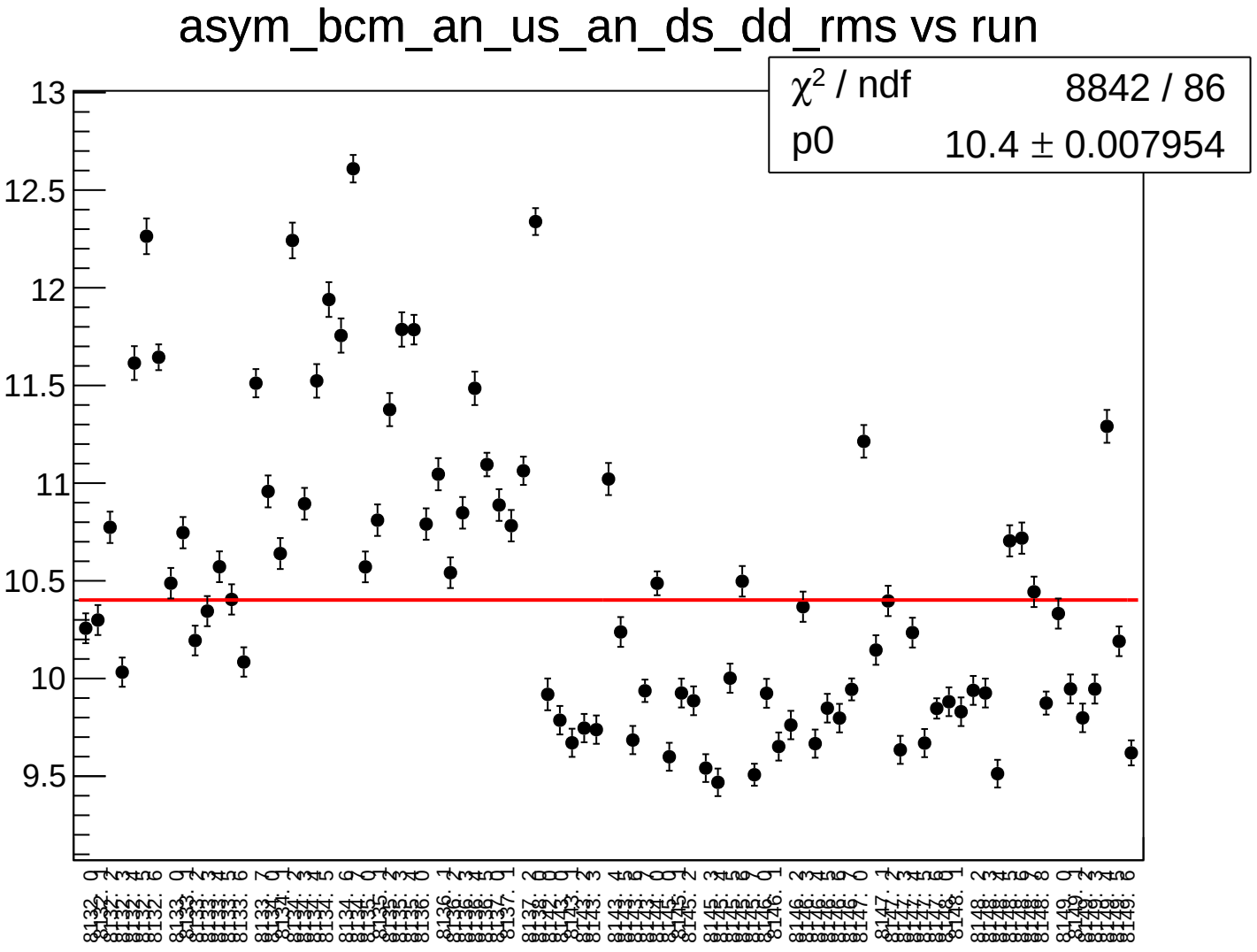

pull1D
Entries 87
Mean −0.001658
Std Dev 0.4589
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

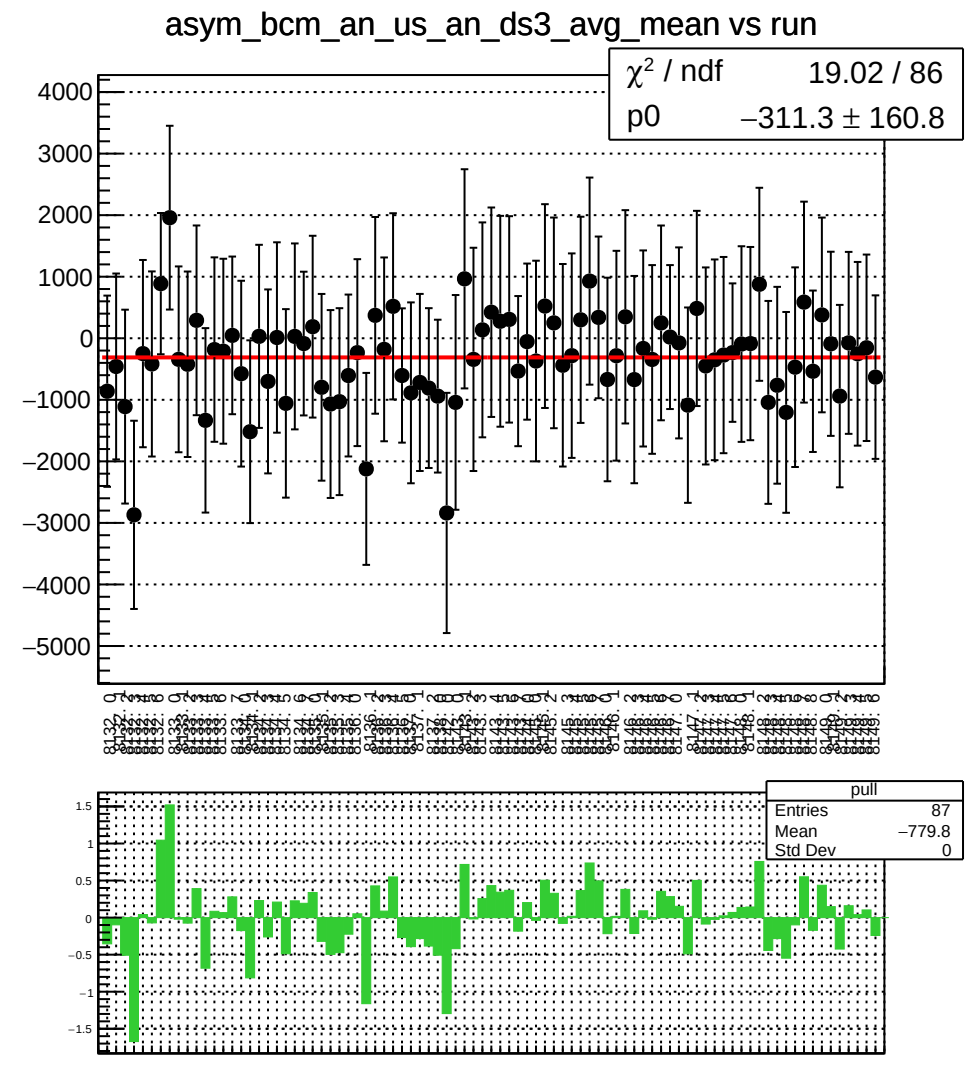

asym_bcm_2an_us_an_ds_dd_rms vs run
χ² / ndf 3969 / 86
p0 51.04 ± 0.03897
60
58
56
54
52
50
48
46

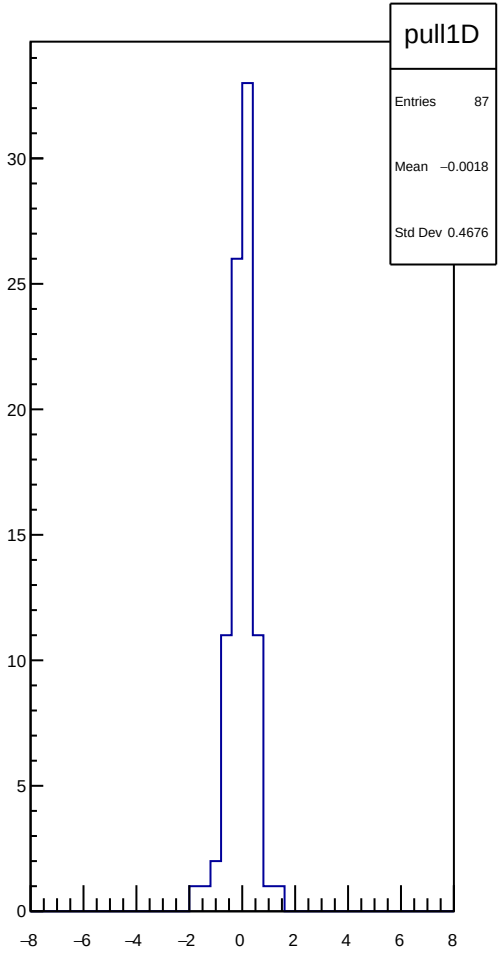

asym_bcm_an_us_an_ds_avg_mean vs run
χ² / ndf 19.16 / 86
p0 −308.8 ± 160.6
pull
Entries 87
Mean −861.2
Std Dev 0
pull1D
Entries 87
Mean −0.001601
Std Dev 0.4692

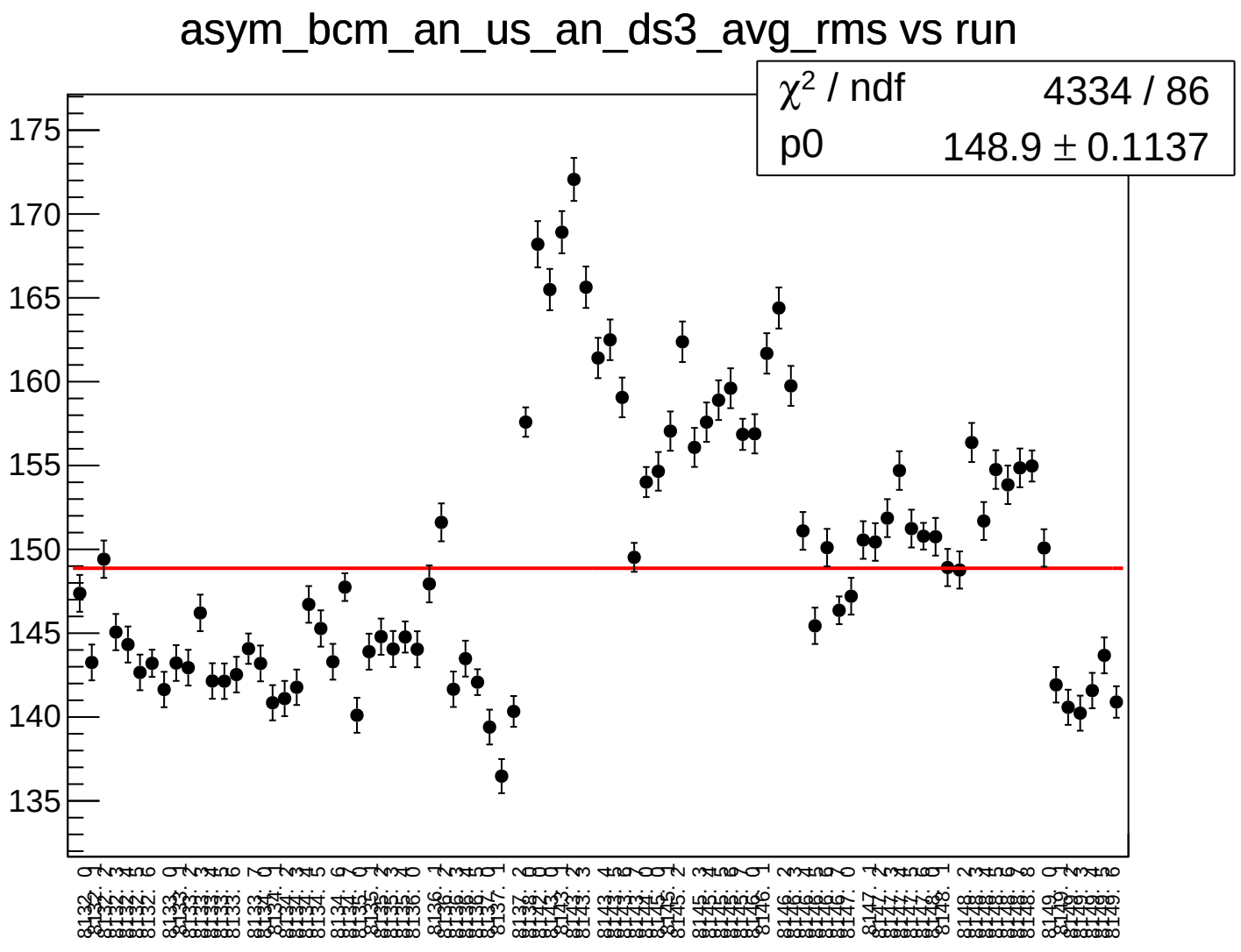

asym_bcm_an_us_an_ds_avg_rms vs run
χ² / ndf 4243 / 86
p0 148.7 ± 0.1135
175
170
165
160
155
150
145
140
135

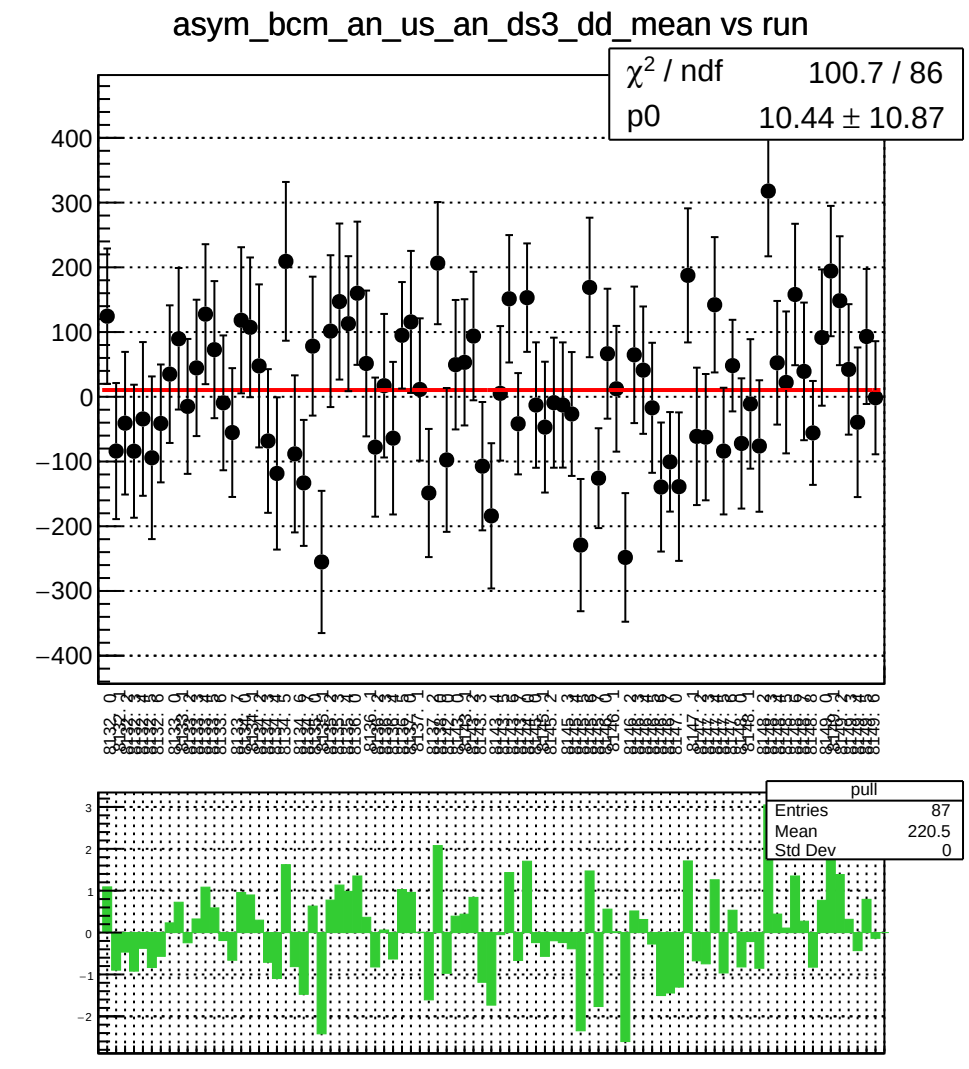

asym_bcm_an_us_an_ds_dd_mean vs run
χ² / ndf 98.59 / 86
p0 7.601 ± 11.25
pull
Entries 87
Mean 321.6
Std Dev 0
pull1D
Entries 87
Mean 0.007422
Std Dev 1.065

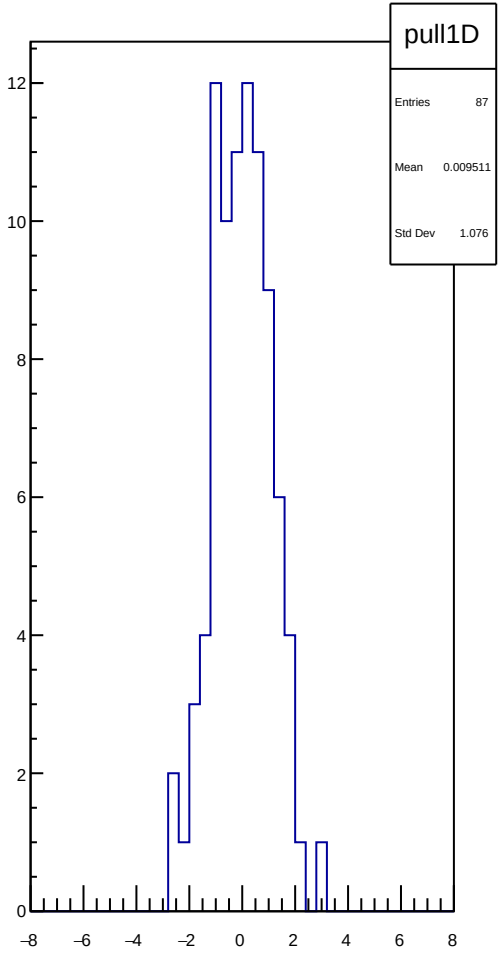

asym_bcm_an_us_an_ds_dd_rms vs run
χ² / ndf 8842 / 86
p0 10.4 ± 0.007954
13
12.5
12
11.5
11
10.5
10
9.5

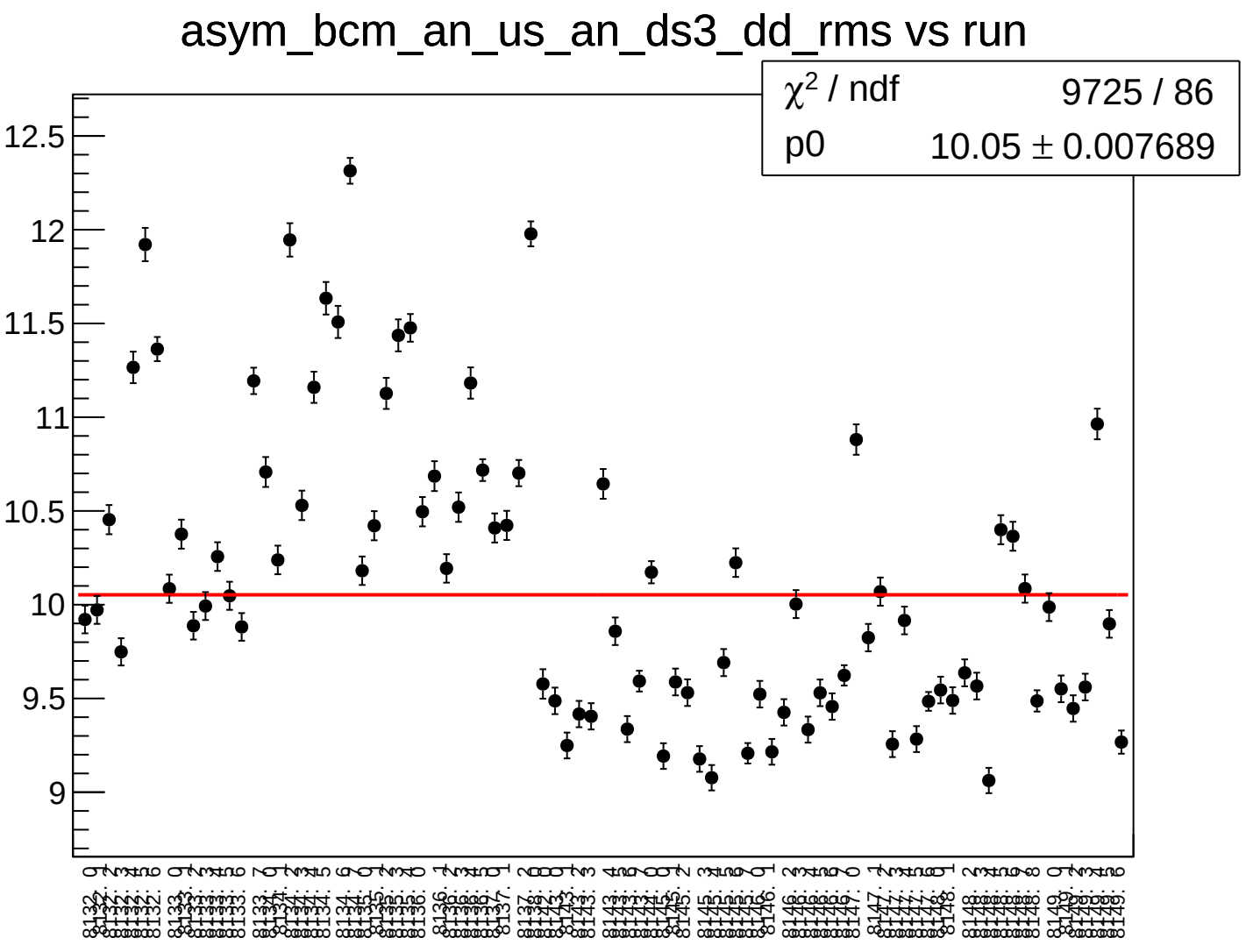

asym_bcm_an_us_an_ds3_avg_mean vs run
χ² / ndf 19.02 / 86
p0 −311.3 ± 160.8
pull
Entries 87
Mean −779.8
Std Dev 0

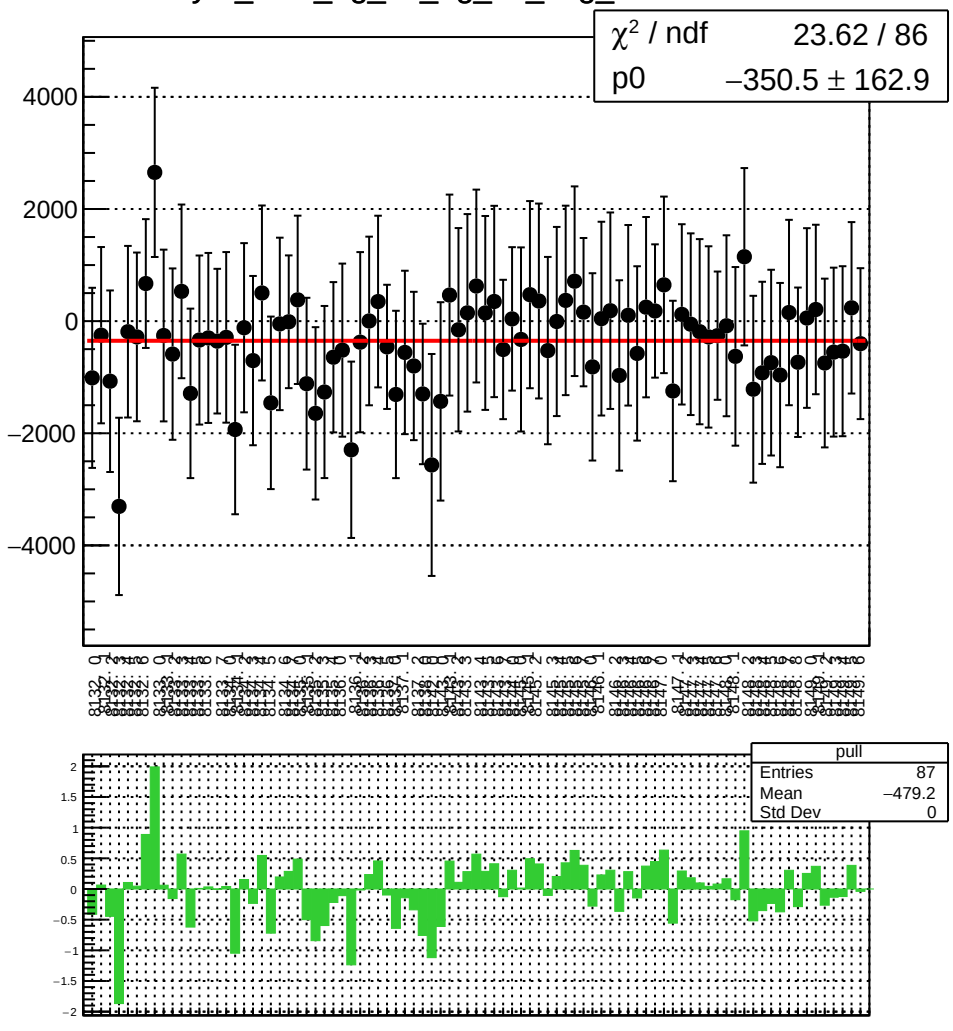

pull1D
Entries 87
Mean −0.0018
Std Dev 0.4676

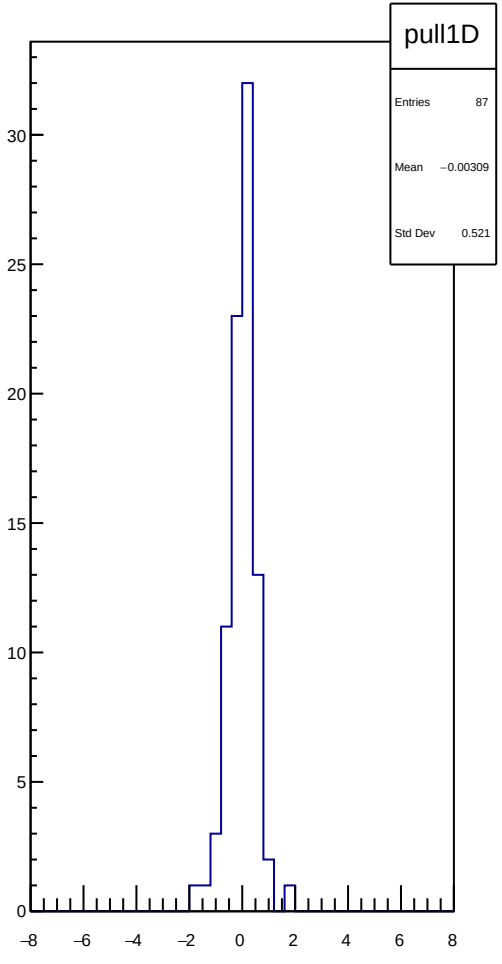

asym_bcm_an_us_an_ds3_avg_rms vs run
χ² / ndf 4334 / 86
p0 148.9 ± 0.1137
175
170
165
160
155
150
145
140
135

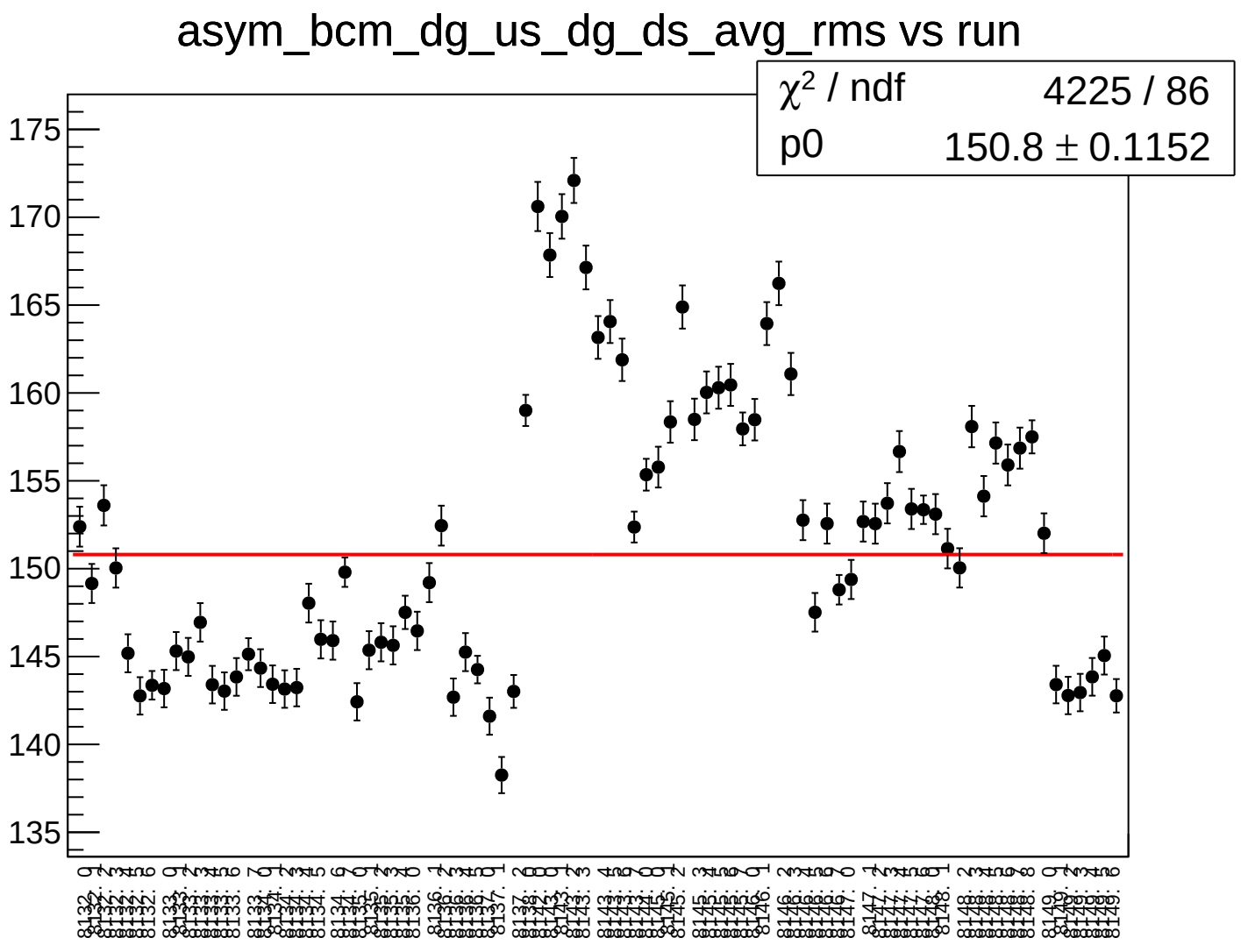

asym_bcm_an_us_an_ds3_dd_mean vs run
χ² / ndf 100.7 / 86
p0 10.44 ± 10.87
pull
Entries 87
Mean 220.5
Std Dev 0

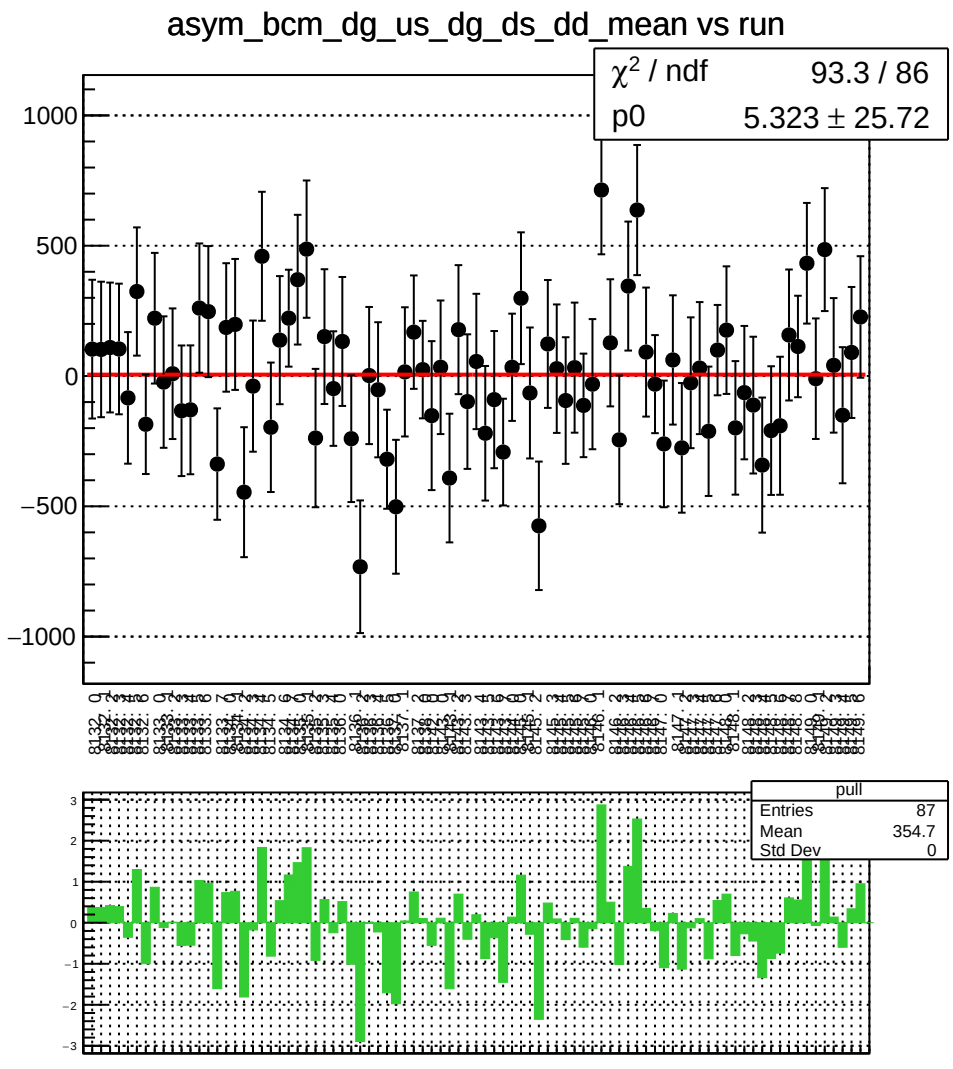

pull1D
Entries 87
Mean 0.009511
Std Dev 1.076

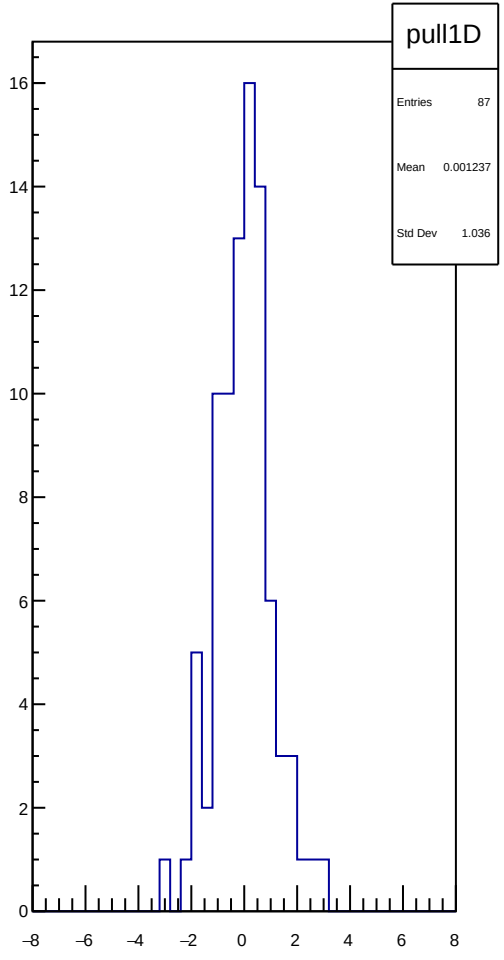

asym_bcm_an_us_an_ds3_dd_rms vs run
χ^2 / ndf 9725 / 86
p0 10.05 ± 0.007689
12.5
12
11.5
11
10.5
10
9.5
9

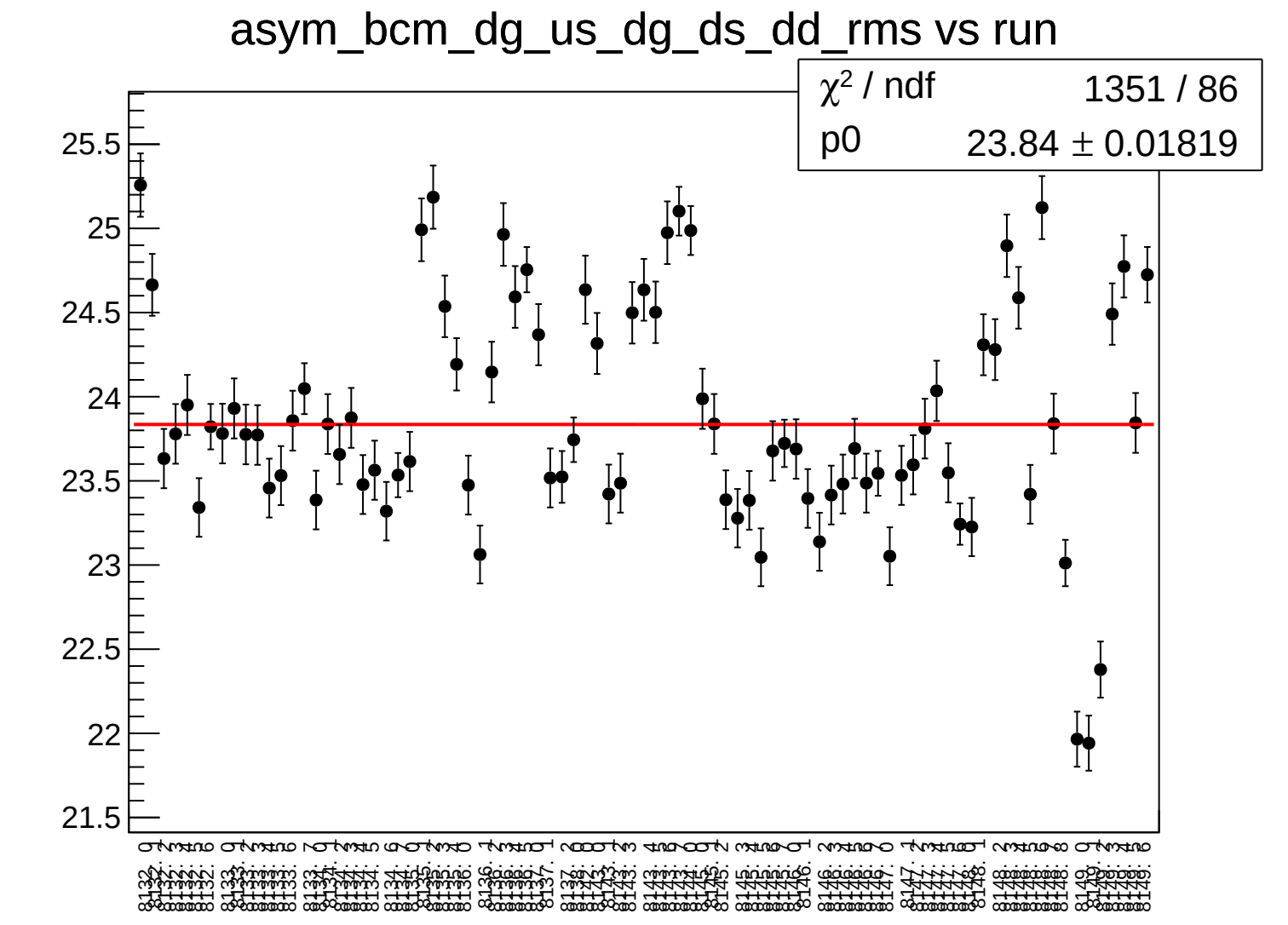

asym_bcm_dg_us_dg_ds_avg_mean vs run
χ² / ndf 23.62 / 86
p0 −350.5 ± 162.9
4000
2000
0
−2000
−4000
pull
Entries 87
Mean −479.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

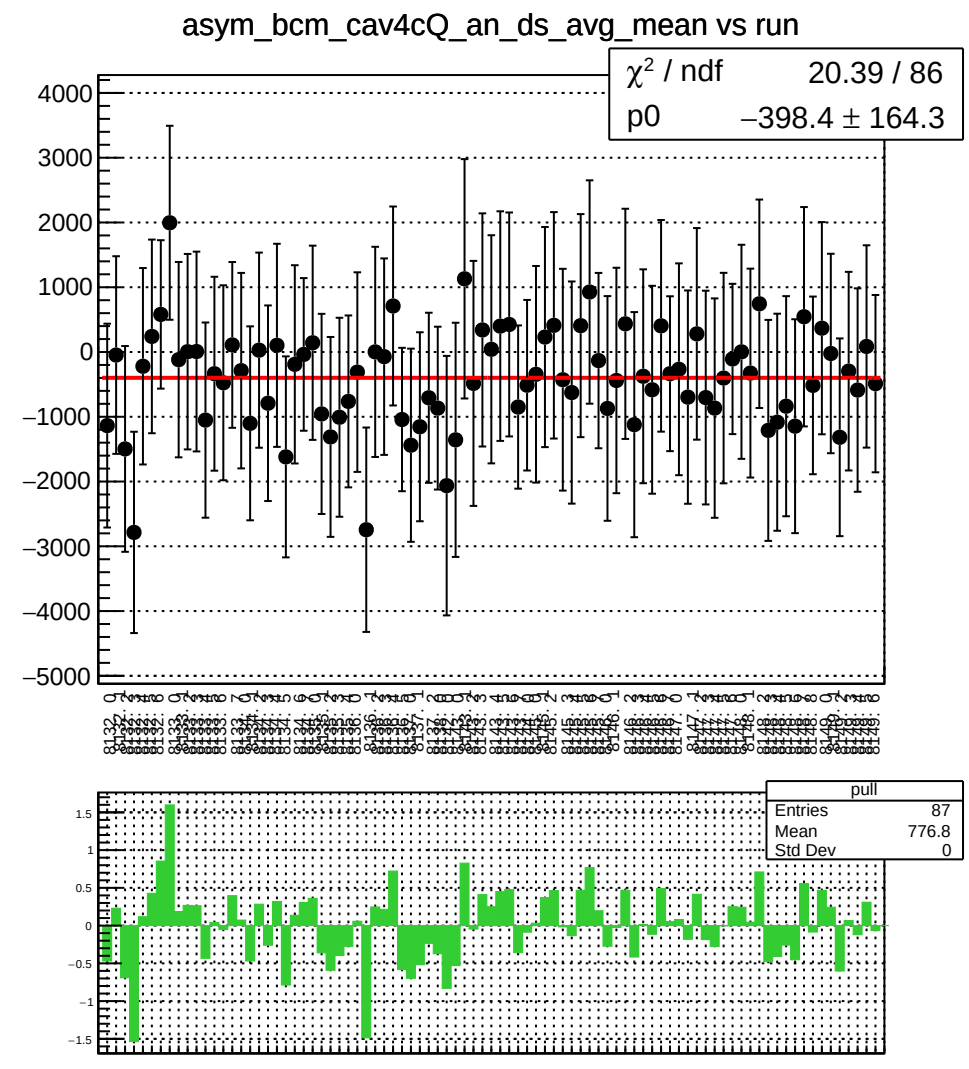

pull1D
Entries 87
Mean −0.00309
Std Dev 0.521
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

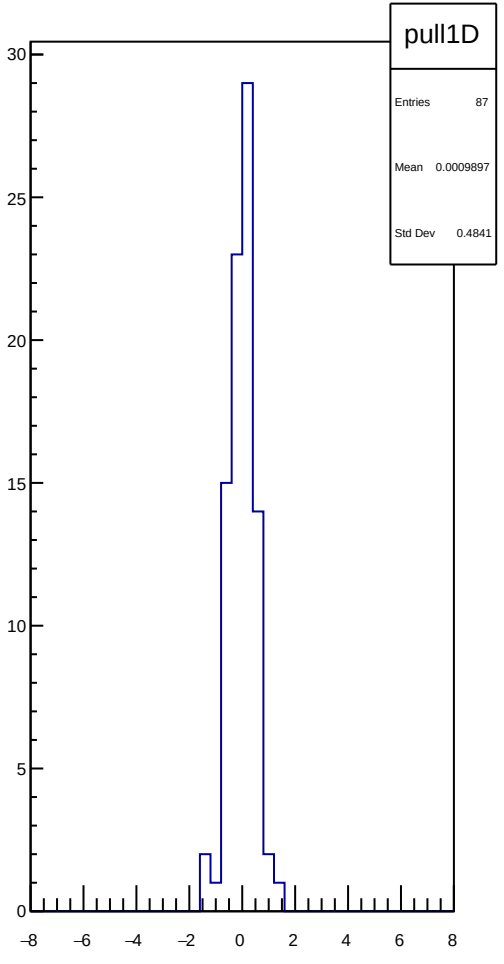

asym_bcm_dg_us_dg_ds_avg_rms vs run
χ² / ndf 4225 / 86
p0 150.8 ± 0.1152
175
170
165
160
155
150
145
140
135

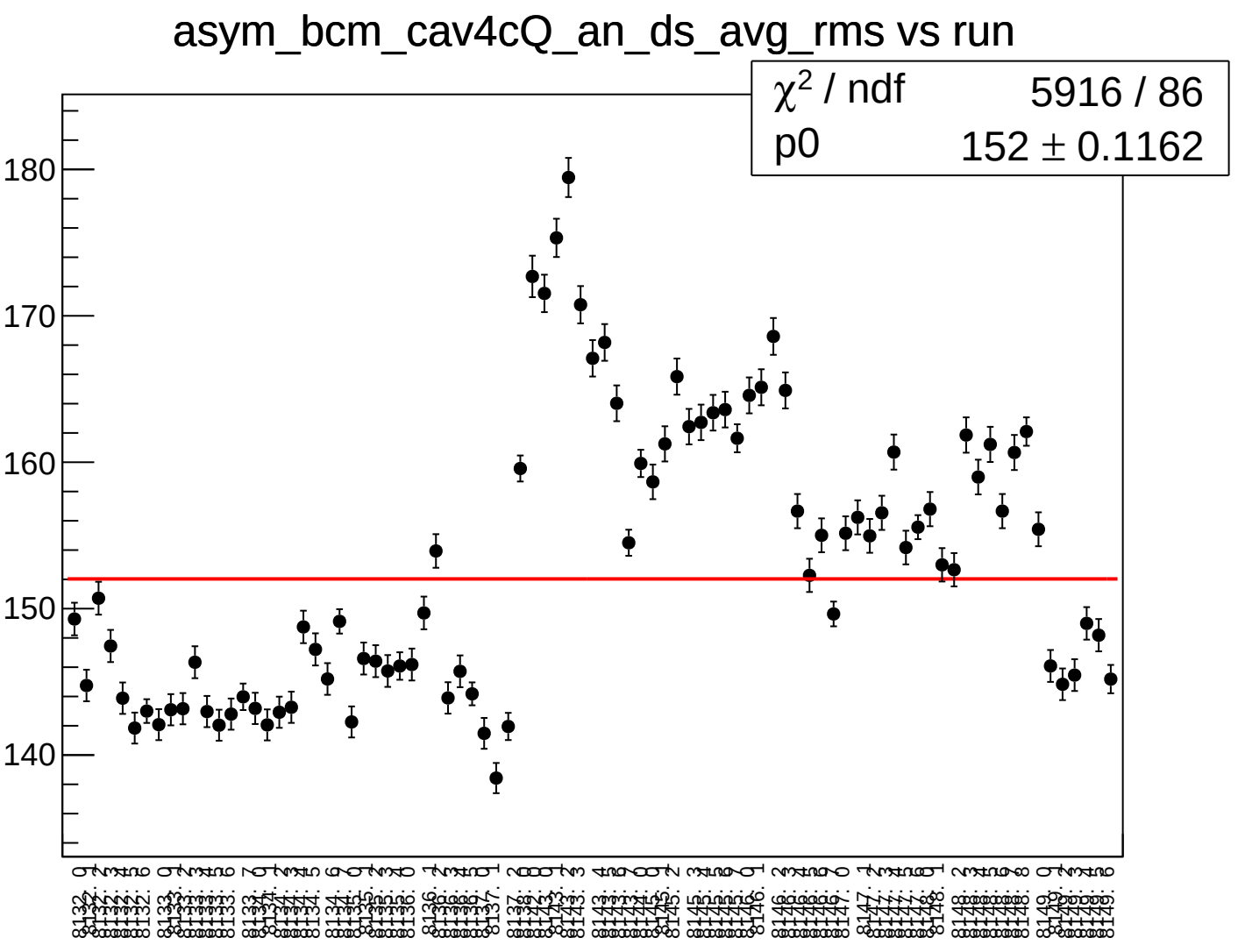

asym_bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 93.3 / 86
p0 5.323 ± 25.72
1000
500
0
−500
−1000
pull
Entries 87
Mean 354.7
Std Dev 0
3
2
1
0
−1
−2
−3

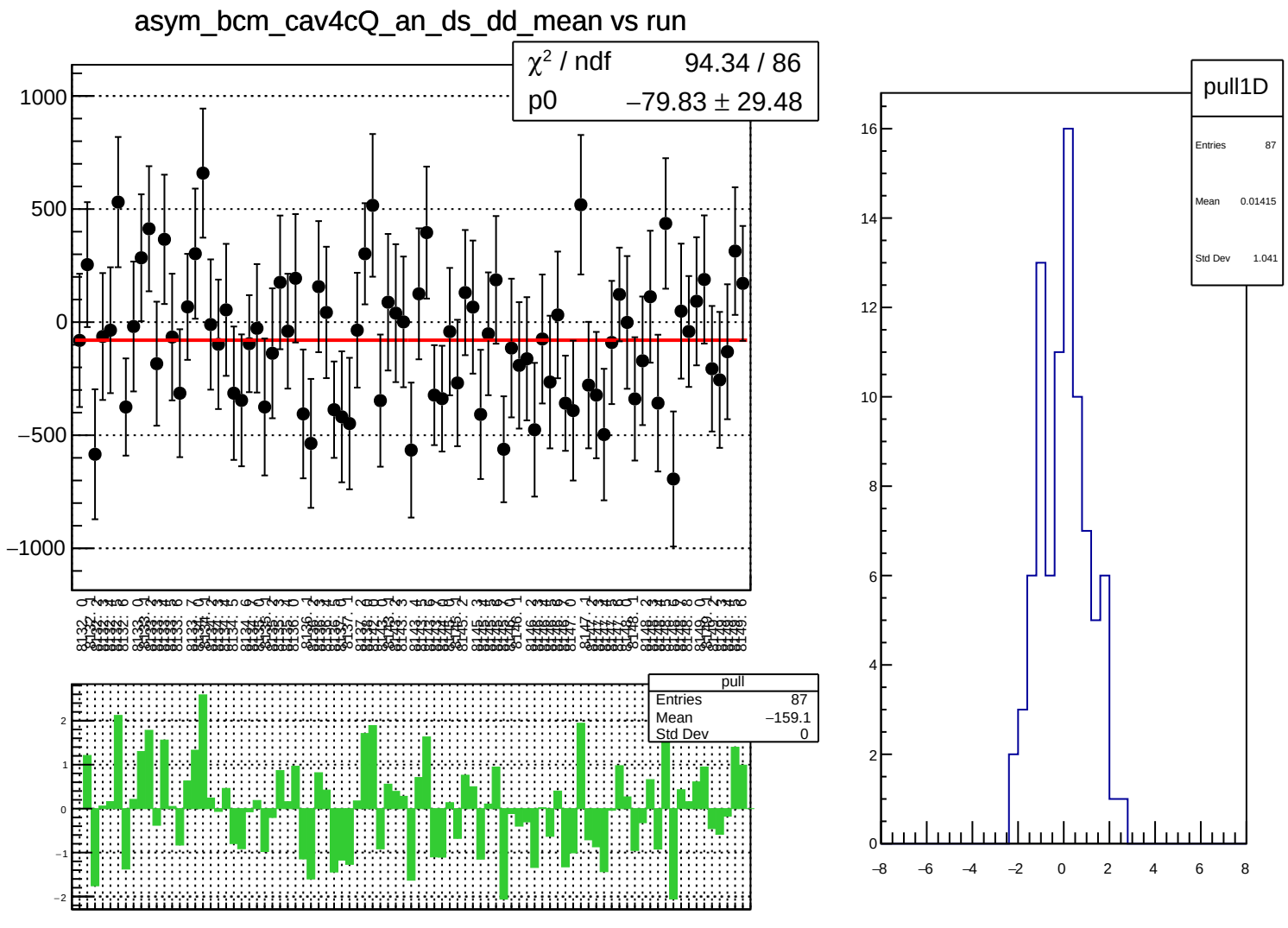

pull1D
Entries 87
Mean 0.001237
Std Dev 1.036
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

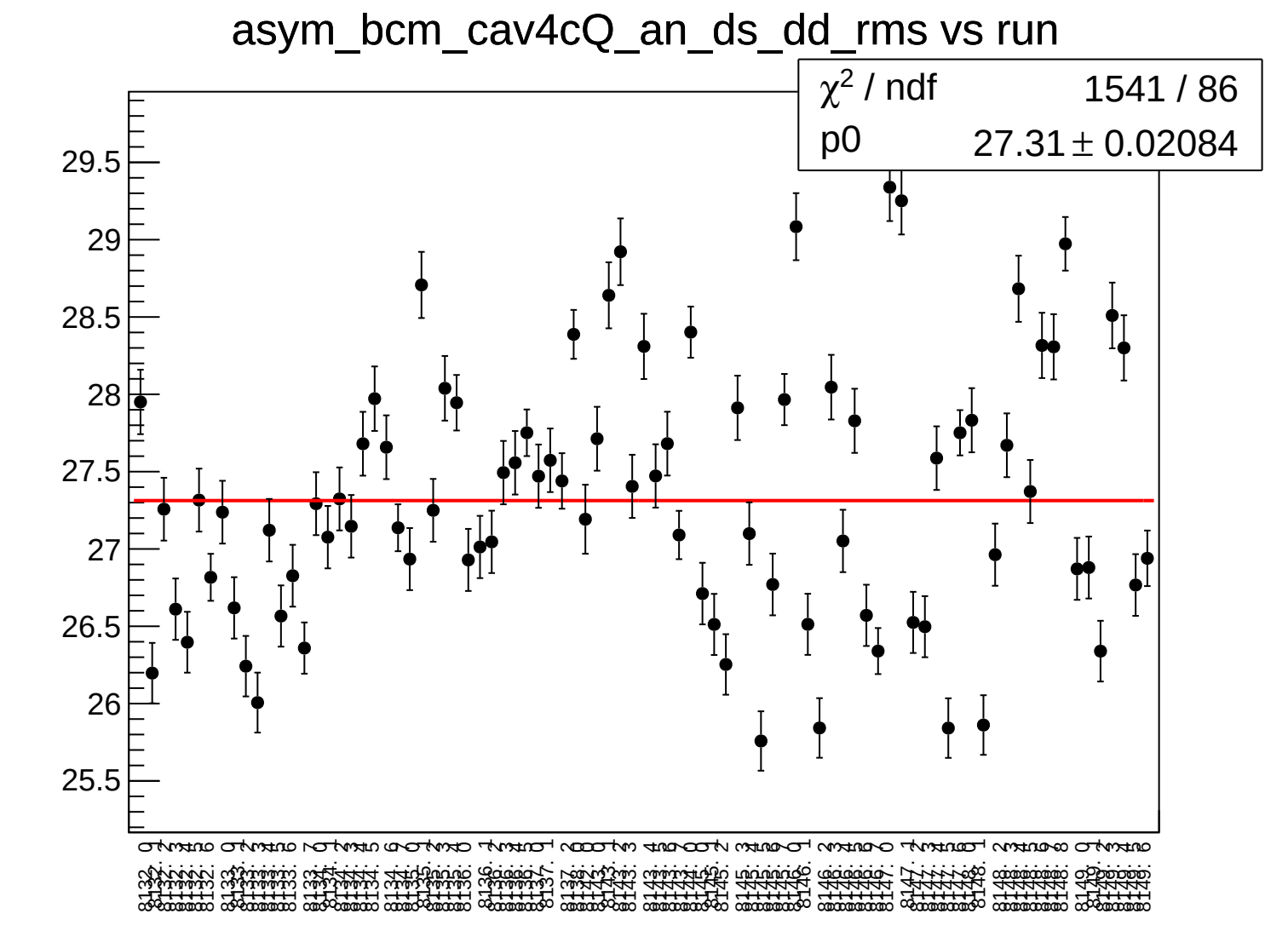

asym_bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 1351 / 86
p0 23.84 ± 0.01819
25.5
25
24.5
24
23.5
23
22.5
22
21.5

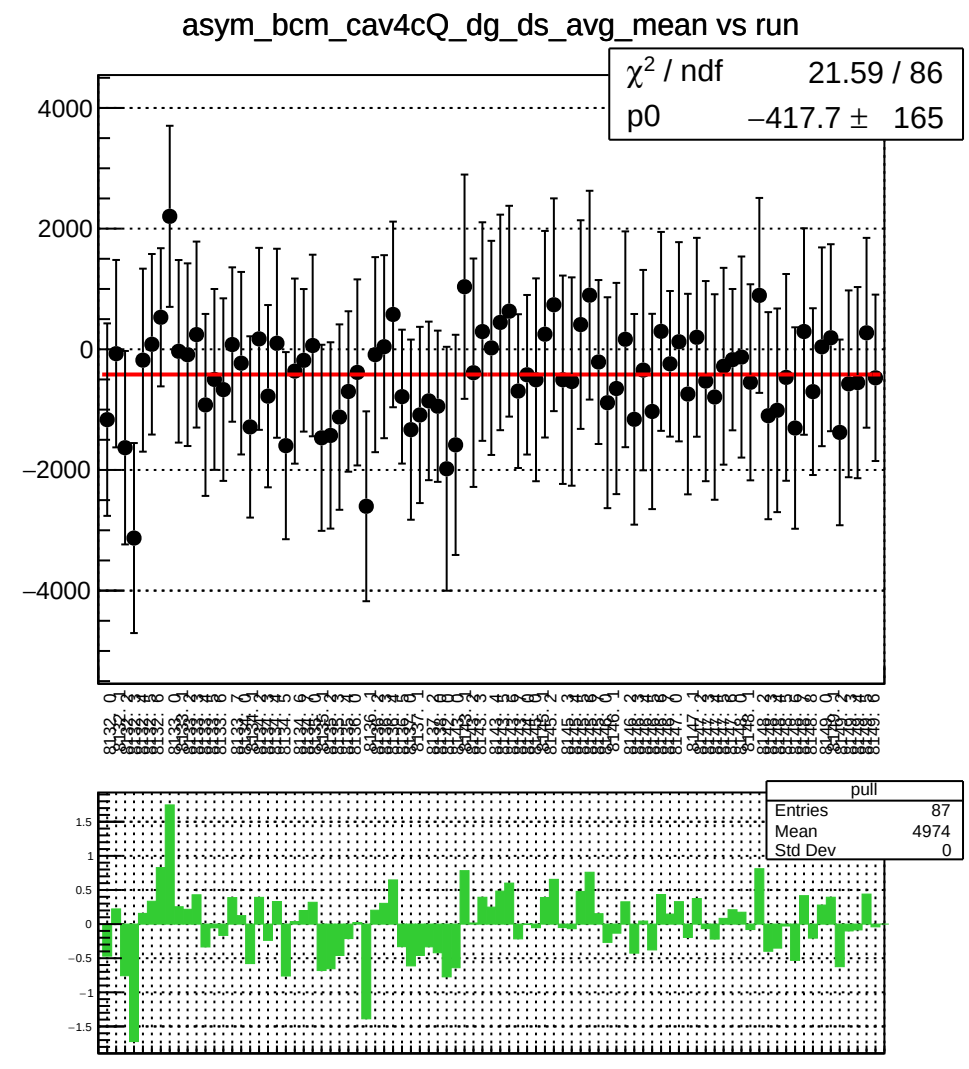

asym_bcm_cav4cQ_an_ds_avg_mean vs run
χ² / ndf 20.39 / 86
p0 −398.4 ± 164.3
pull
Entries 87
Mean 776.8
Std Dev 0

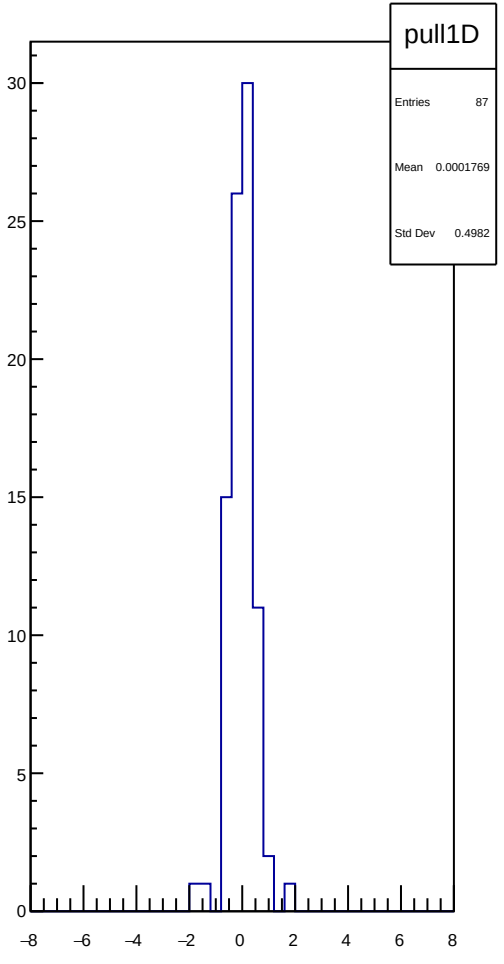

pull1D
Entries 87
Mean 0.0009897
Std Dev 0.4841

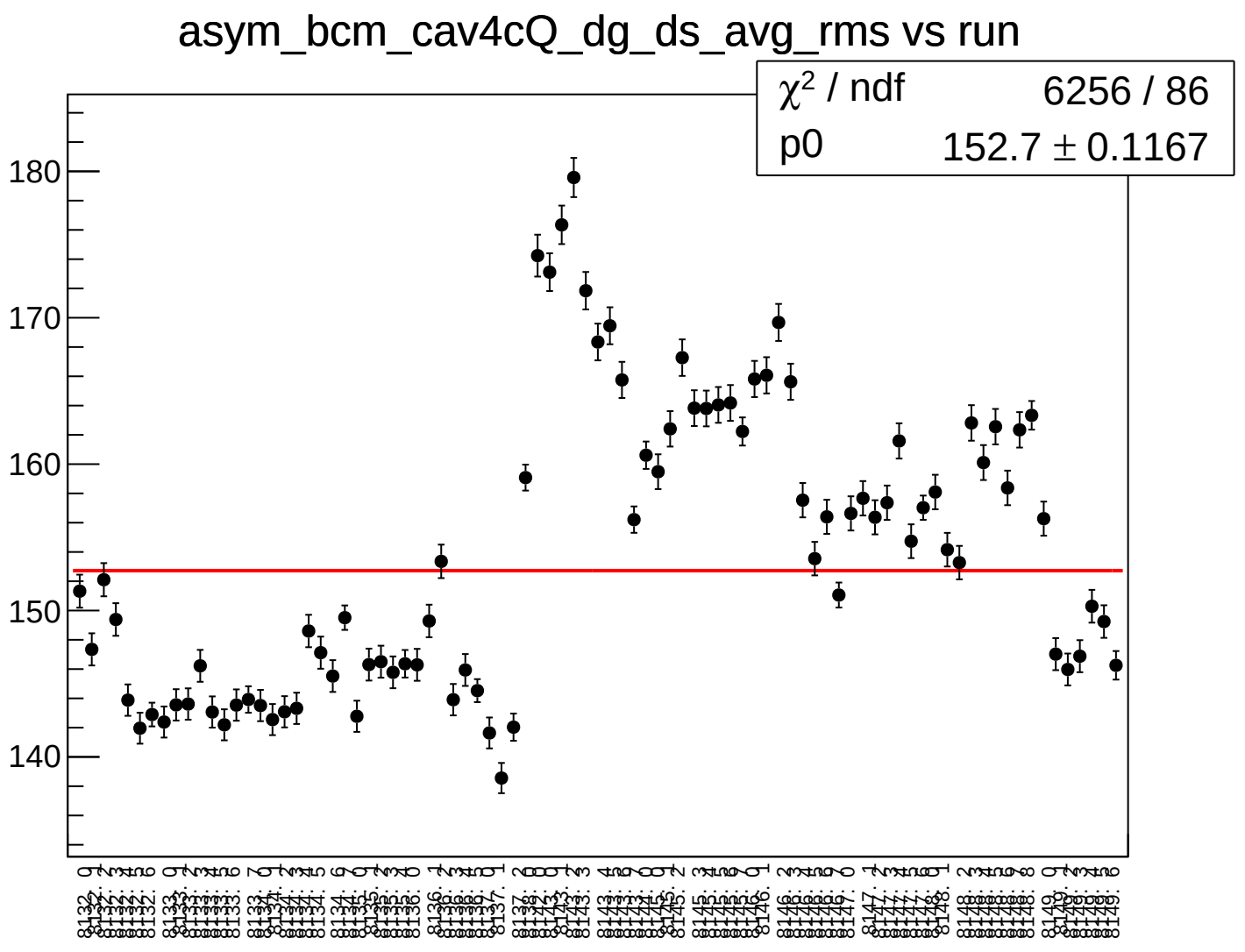

asym_bcm_cav4cQ_an_ds_avg_rms vs run
χ² / ndf 5916 / 86
p0 152 ± 0.1162
180
170
160
150
140

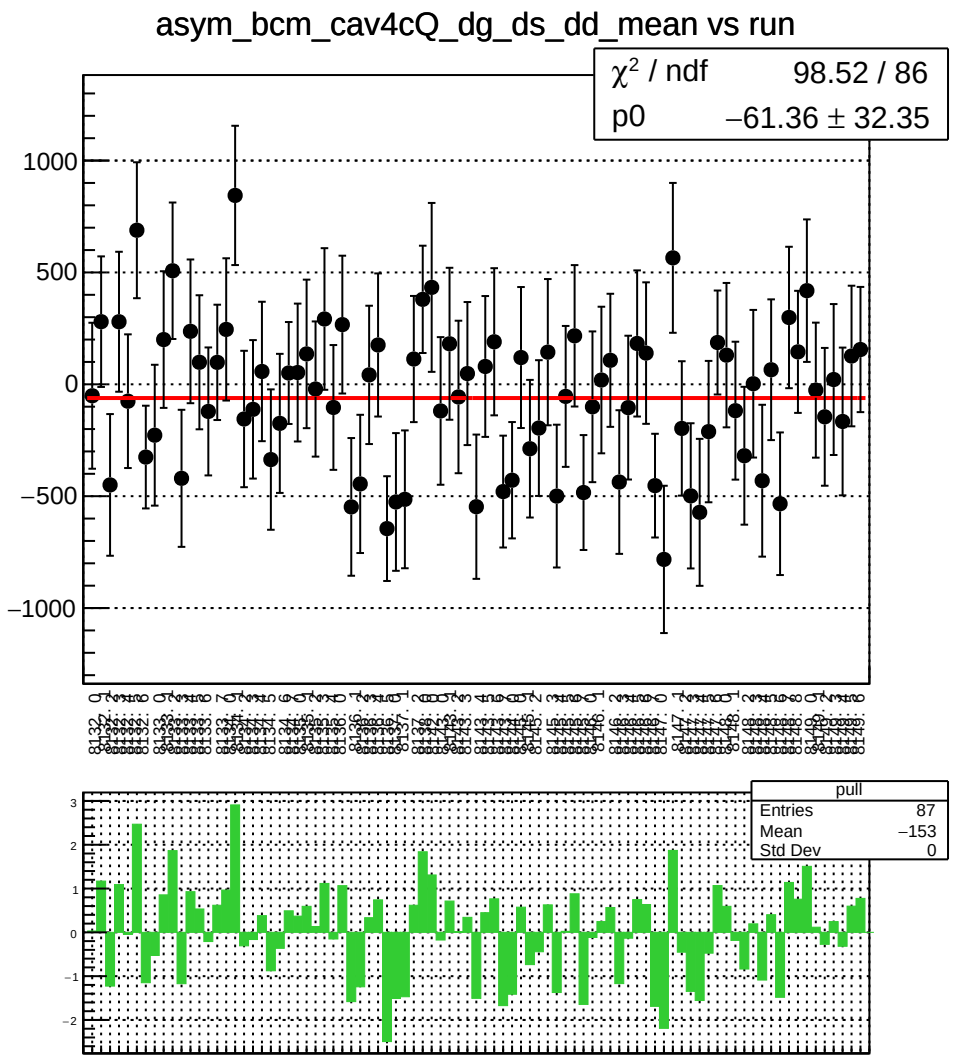

asym_bcm_cav4cQ_an_ds_dd_mean vs run
χ² / ndf 94.34 / 86
p0 −79.83 ± 29.48
1000
500
0
−500
−1000
pull
Entries 87
Mean −159.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.01415
Std Dev 1.041
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

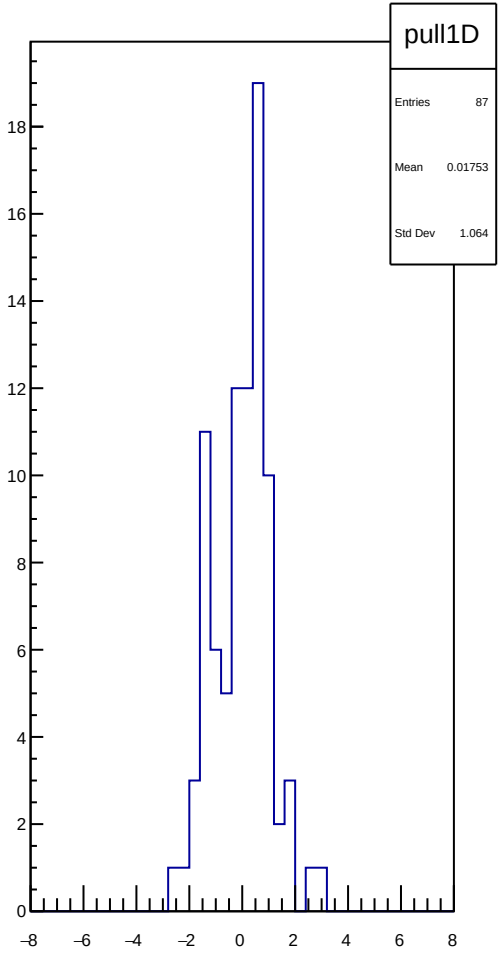

asym_bcm_cav4cQ_an_ds_dd_rms vs run
χ² / ndf 1541 / 86
p0 27.31 ± 0.02084
29.5
29
28.5
28
27.5
27
26.5
26
25.5

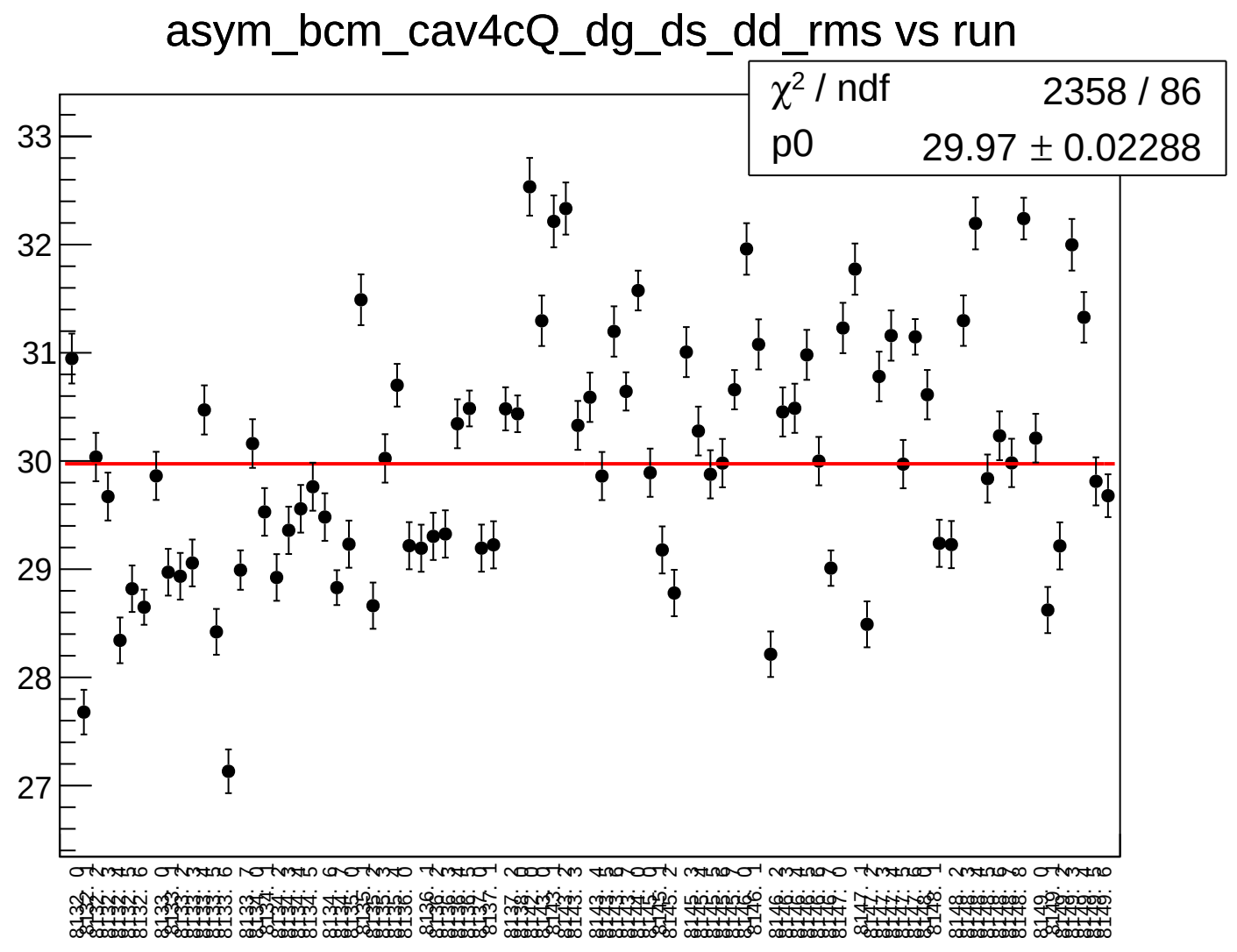

asym_bcm_cav4cQ_dg_ds_avg_mean vs run
χ² / ndf 21.59 / 86
p0 −417.7 ± 165
4000
2000
0
−2000
−4000
pull
Entries 87
Mean 4974
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

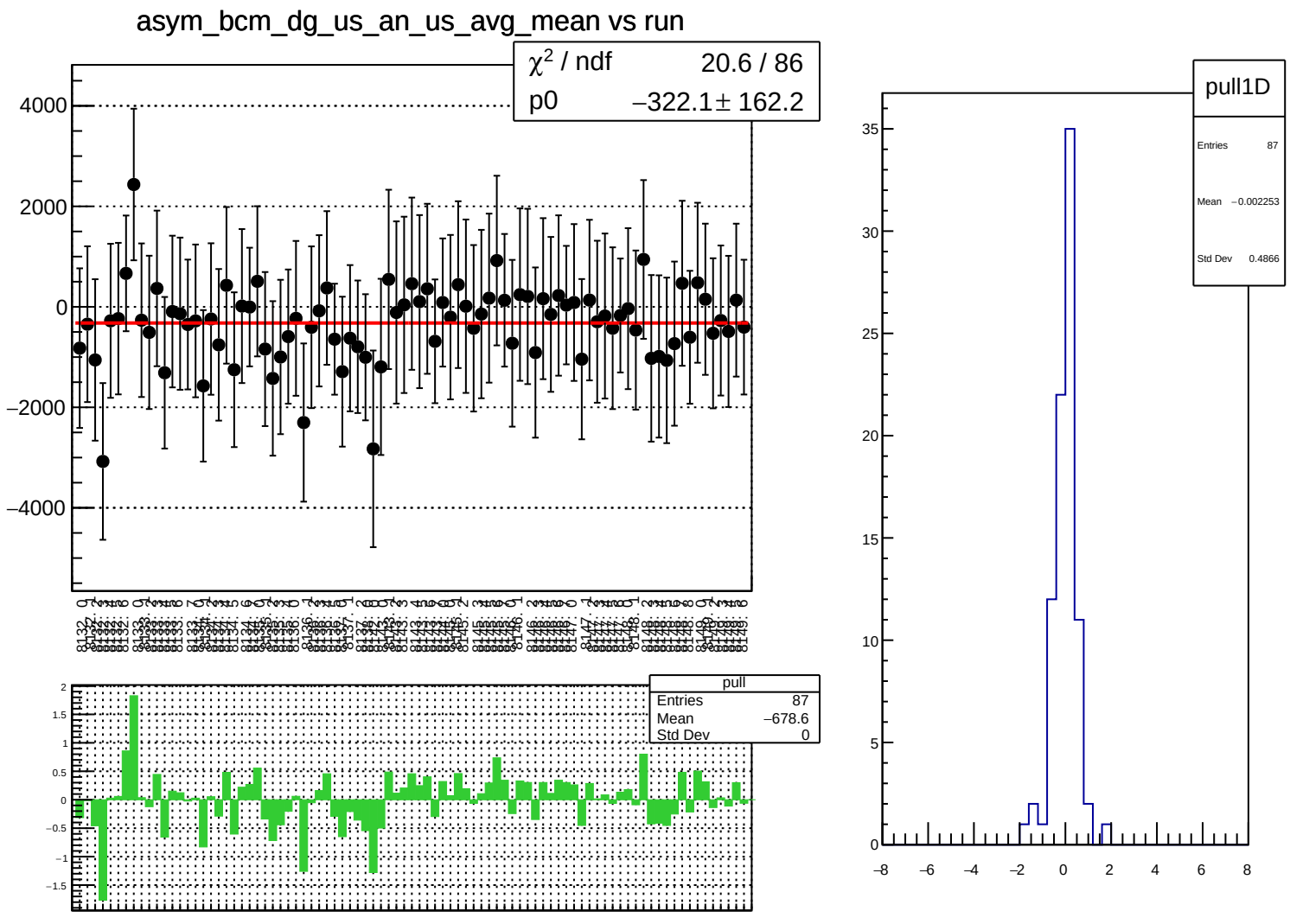

pull1D
Entries 87
Mean 0.0001769
Std Dev 0.4982
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

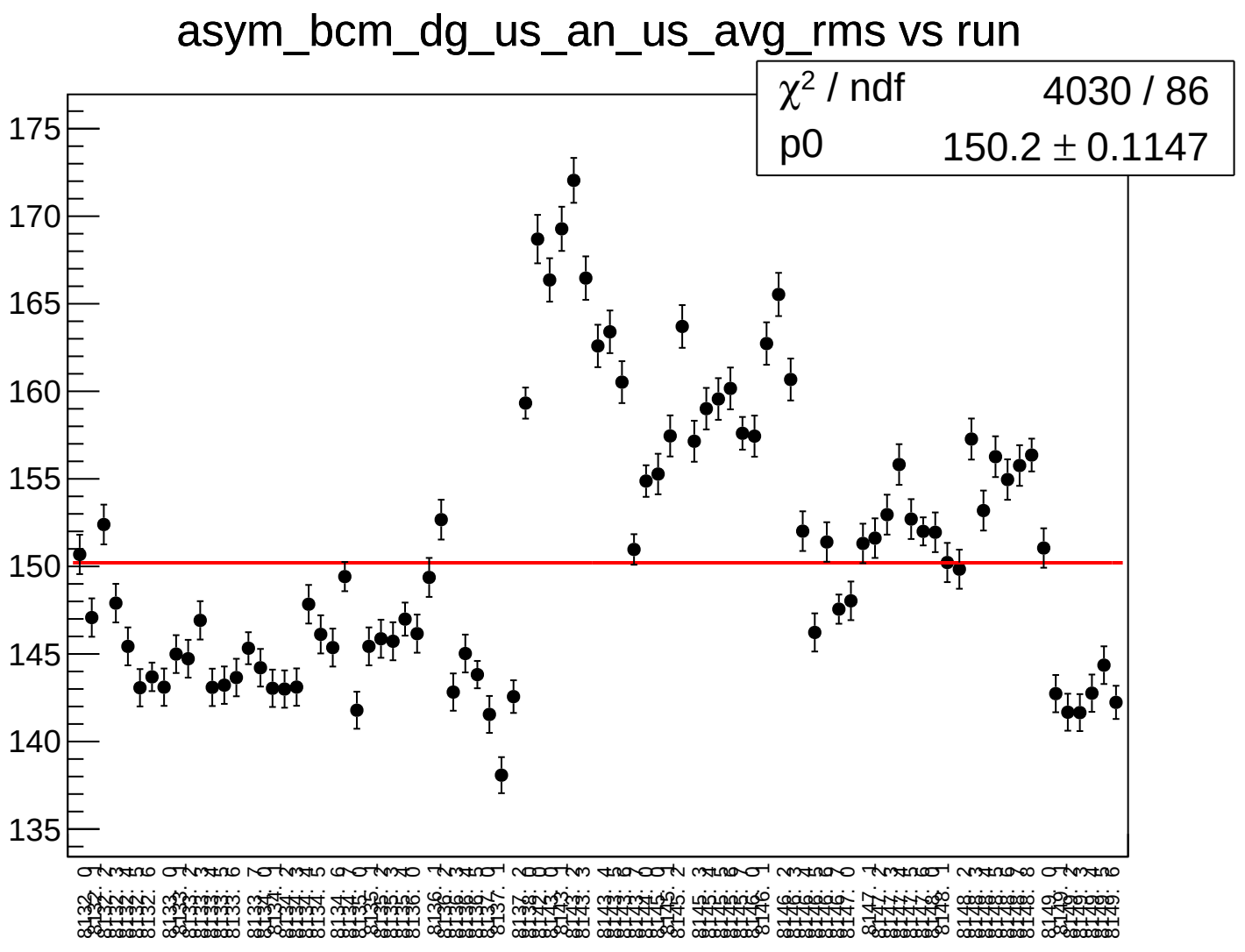

asym_bcm_cav4cQ_dg_ds_avg_rms vs run
χ² / ndf 6256 / 86
p0 152.7 ± 0.1167
180
170
160
150
140

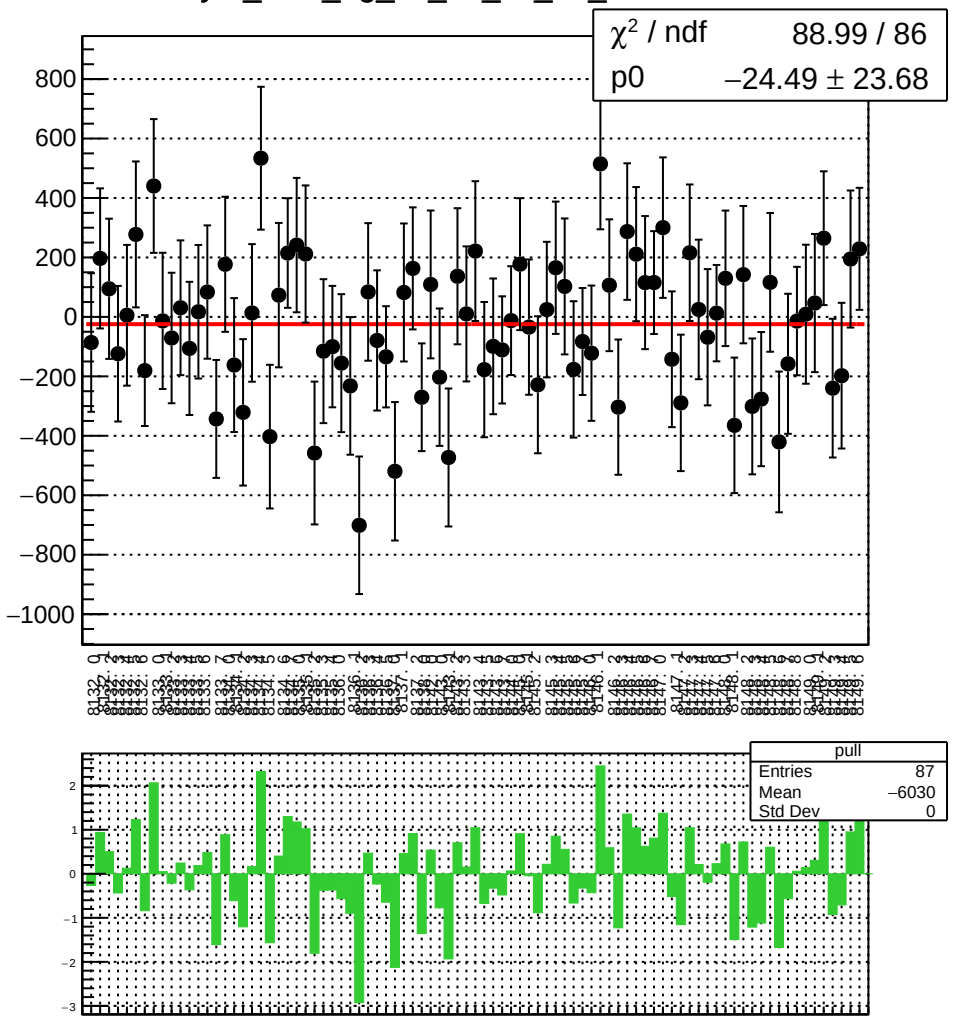

asym_bcm_cav4cQ_dg_ds_dd_mean vs run
χ² / ndf 98.52 / 86
p0 −61.36 ± 32.35
1000
500
0
−500
−1000
pull
Entries 87
Mean −153
Std Dev 0
3
2
1
0
−1
−2

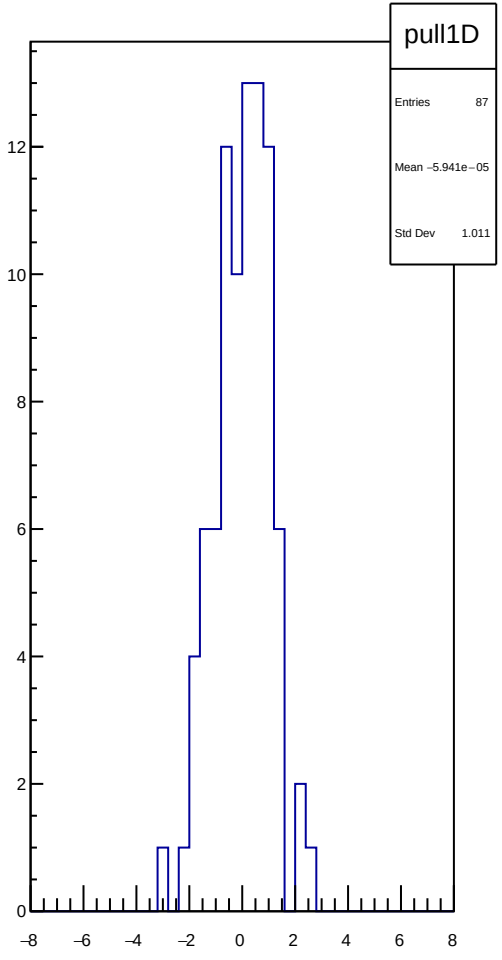

pull1D
Entries 87
Mean 0.01753
Std Dev 1.064
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_cav4cQ_dg_ds_dd_rms vs run
χ² / ndf 2358 / 86
p0 29.97 ± 0.02288
33
32
31
30
29
28
27

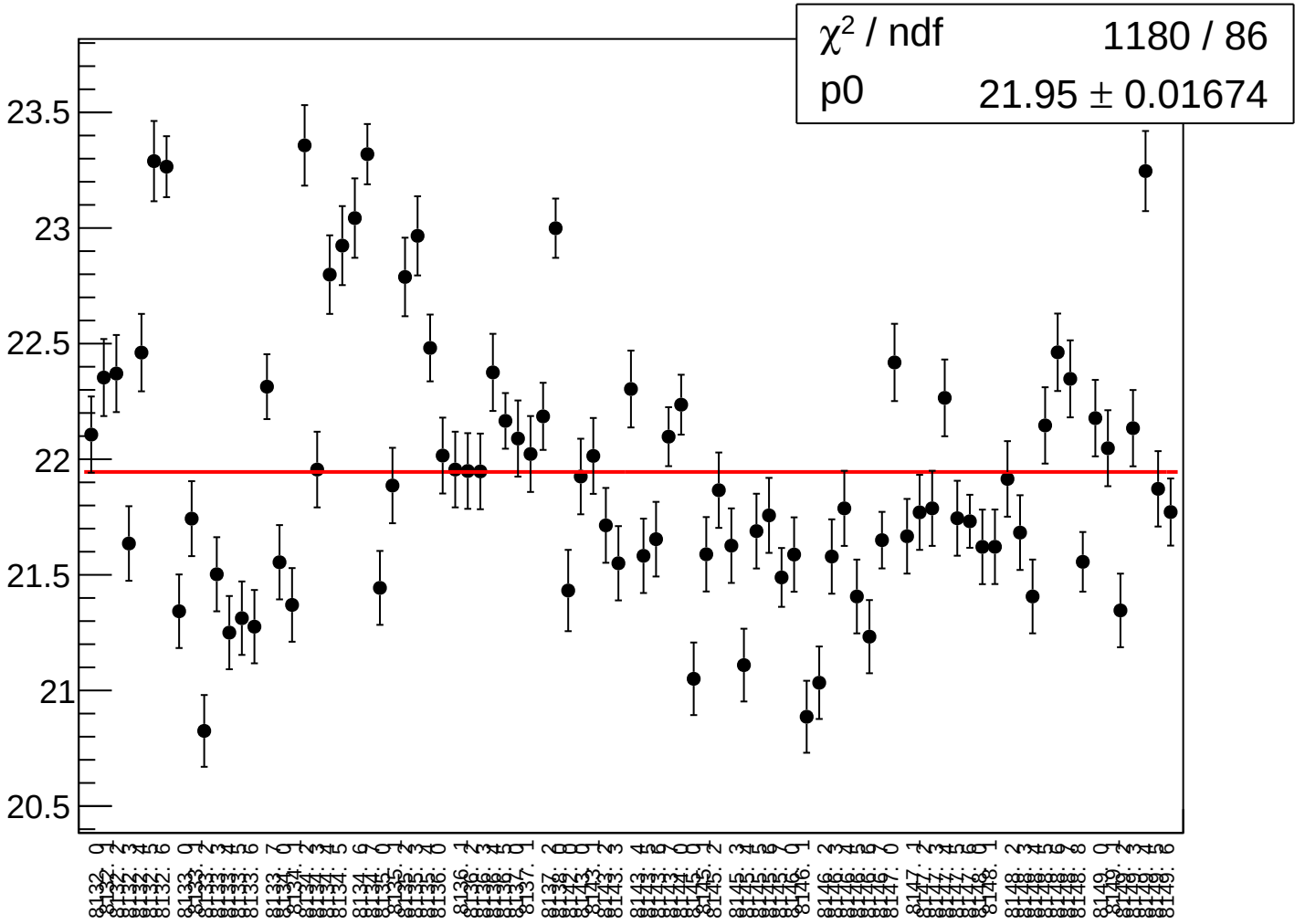

asym_bcm_dg_us_an_us_avg_mean vs run
χ² / ndf 20.6 / 86
p0 −322.1± 162.2
4000
2000
0
−2000
−4000
pull
Entries 87
Mean −678.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 87
Mean −0.002253
Std Dev 0.4866
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

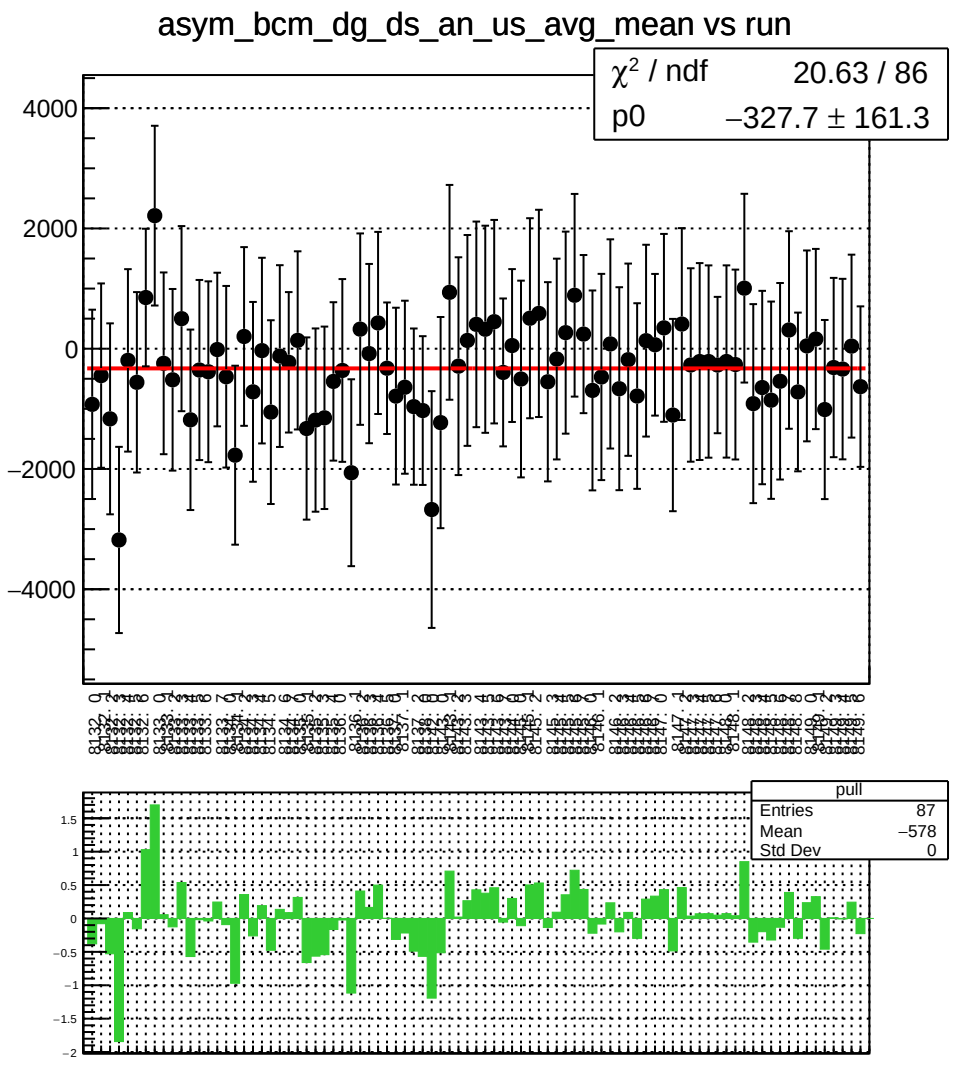

asym_bcm_dg_us_an_us_avg_rms vs run
χ² / ndf 4030 / 86
p0 150.2 ± 0.1147
175
170
165
160
155
150
145
140
135

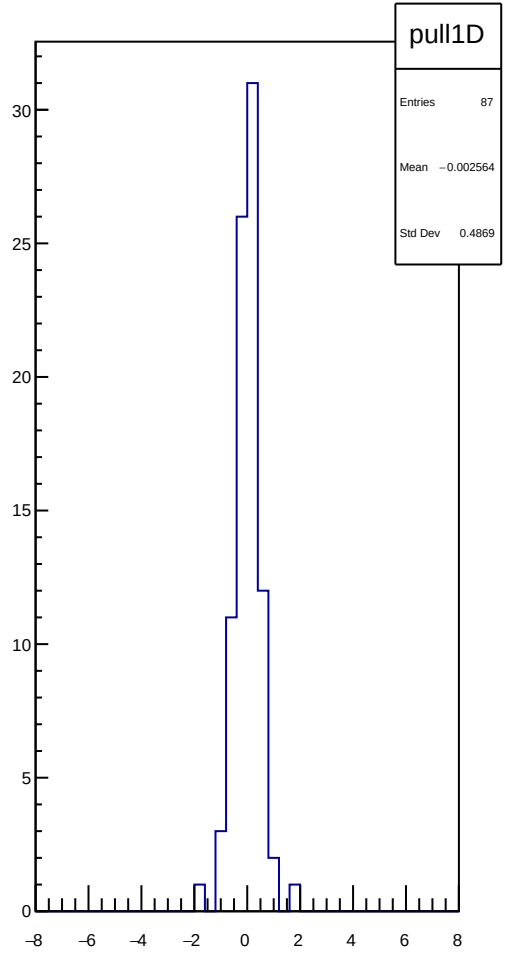

asym_bcm_dg_us_an_us_dd_mean vs run
χ² / ndf 88.99 / 86
p0 −24.49 ± 23.68
pull
Entries 87
Mean −6030
Std Dev 0

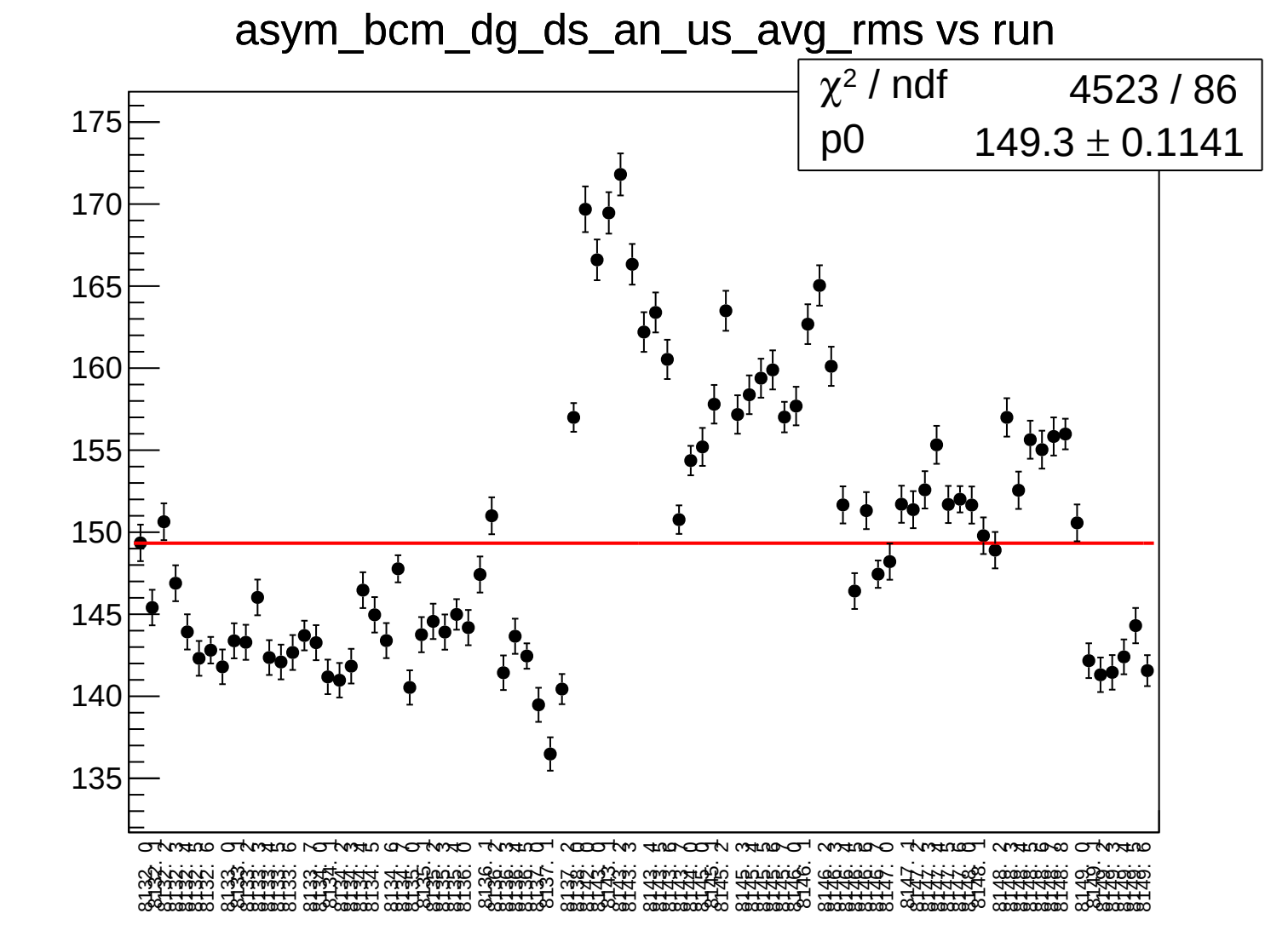

pull1D
Entries 87
Mean −5.941e−05
Std Dev 1.011

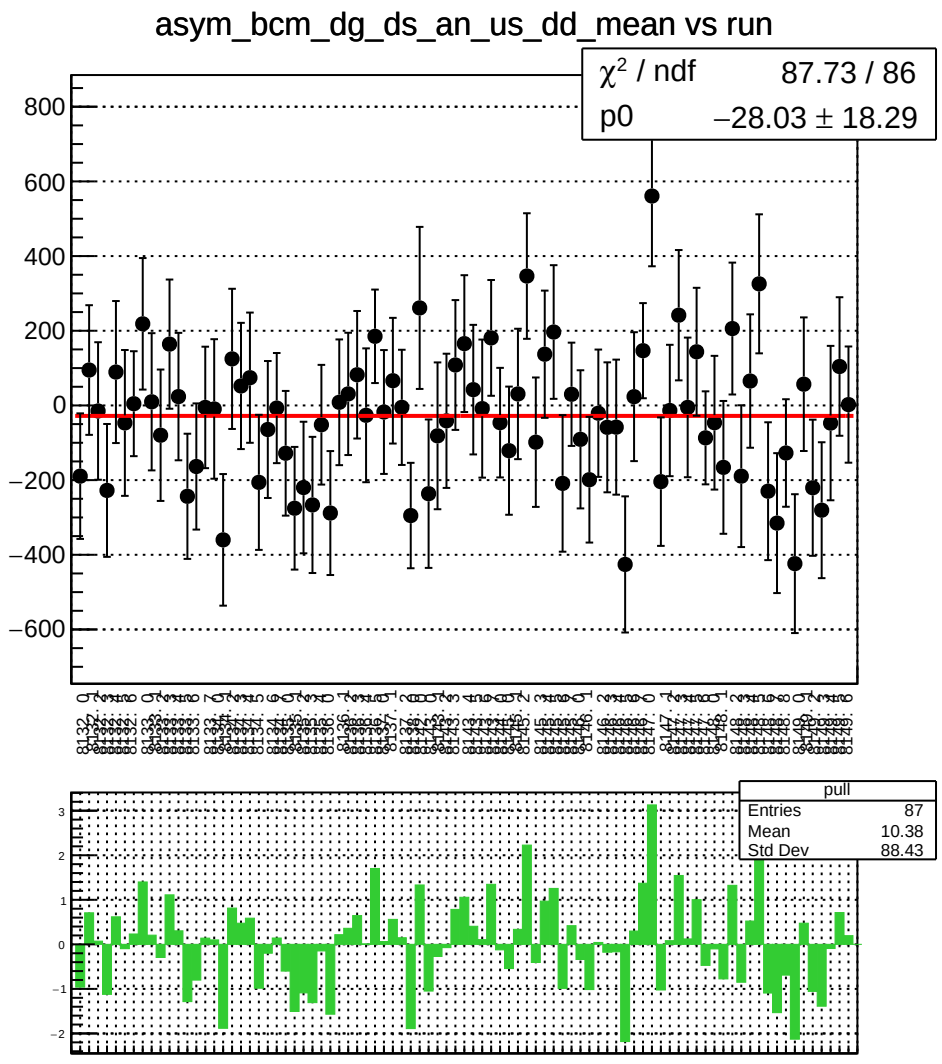
asym_bcm_dg_us_an_us_dd_rms vs run

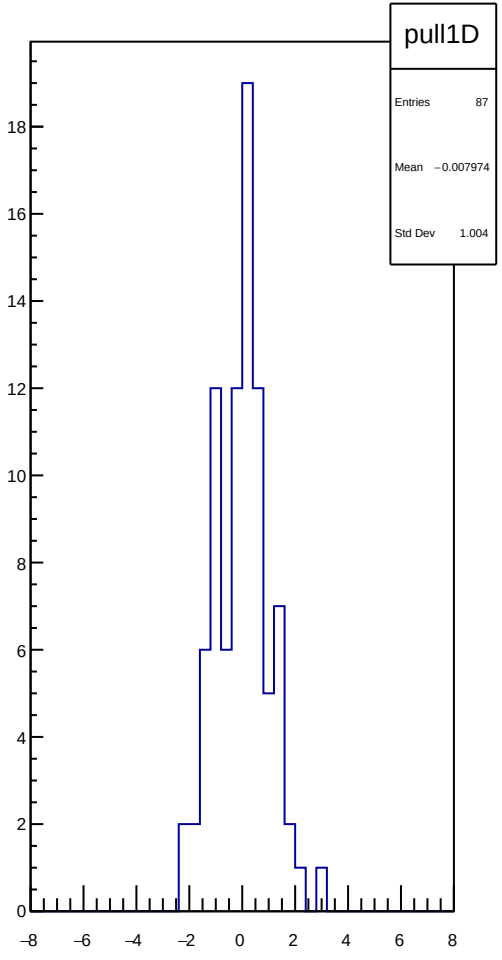


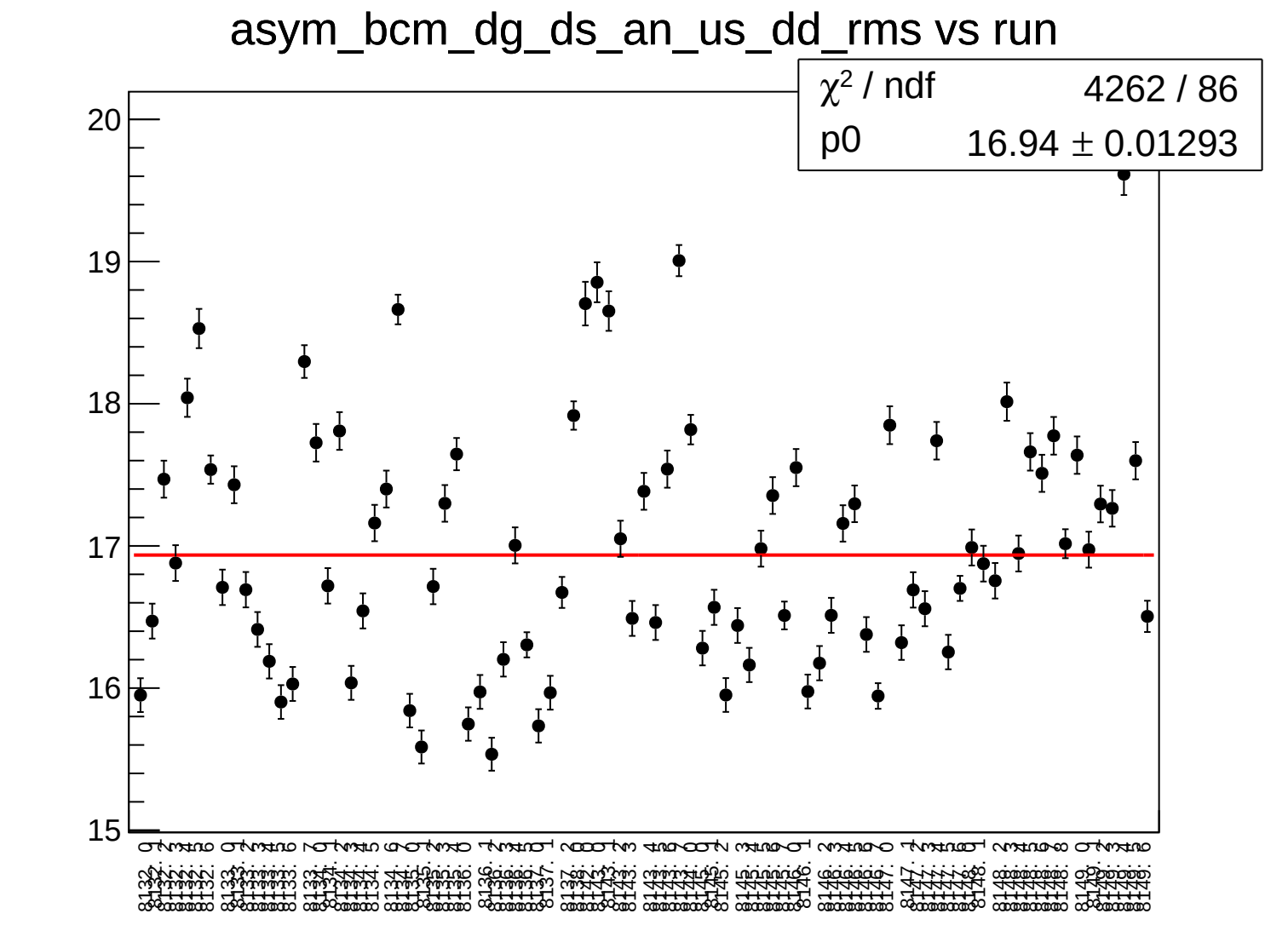

asym_bcm_dg_ds_an_us_avg_mean vs run
χ² / ndf 20.63 / 86
p0 −327.7 ± 161.3
4000
2000
0
−2000
−4000
pull
Entries 87
Mean −578
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

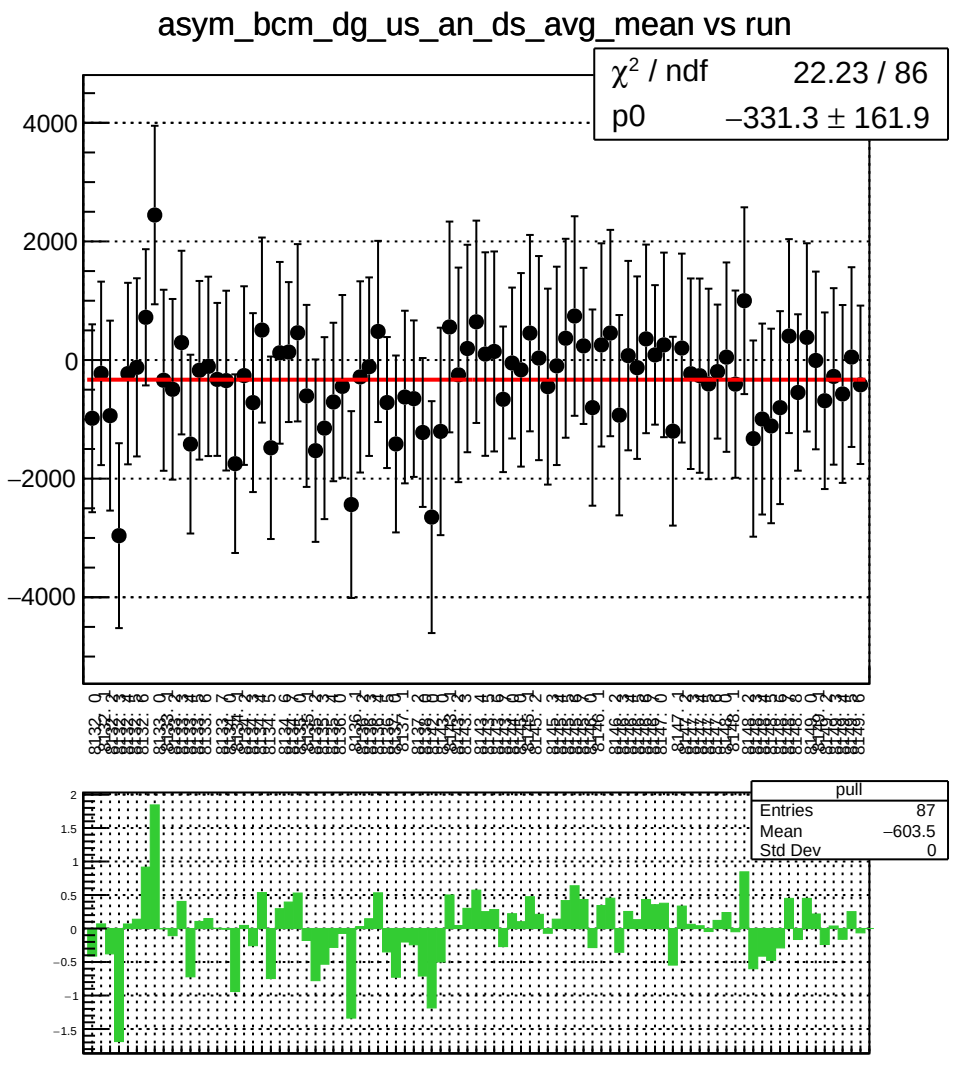

pull1D
Entries 87
Mean −0.002564
Std Dev 0.4869
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

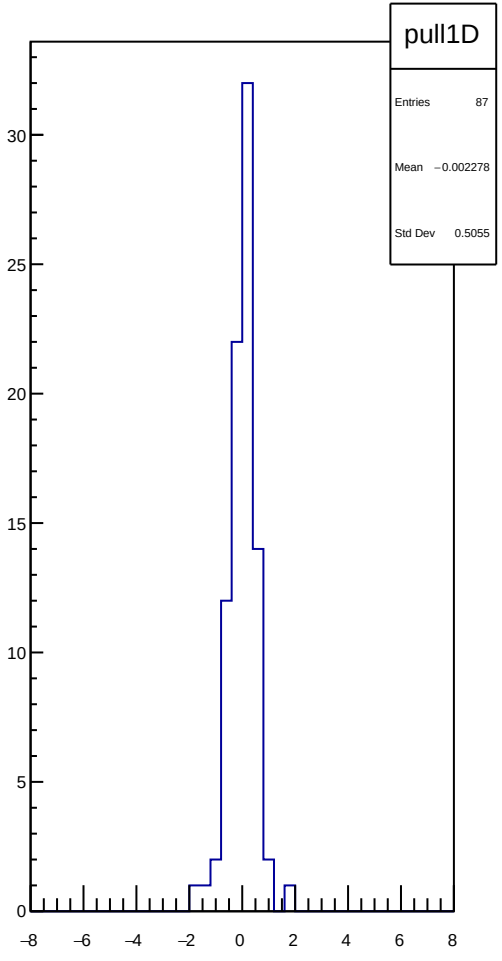

asym_bcm_dg_ds_an_us_avg_rms vs run
χ² / ndf 4523 / 86
p0 149.3 ± 0.1141
175
170
165
160
155
150
145
140
135

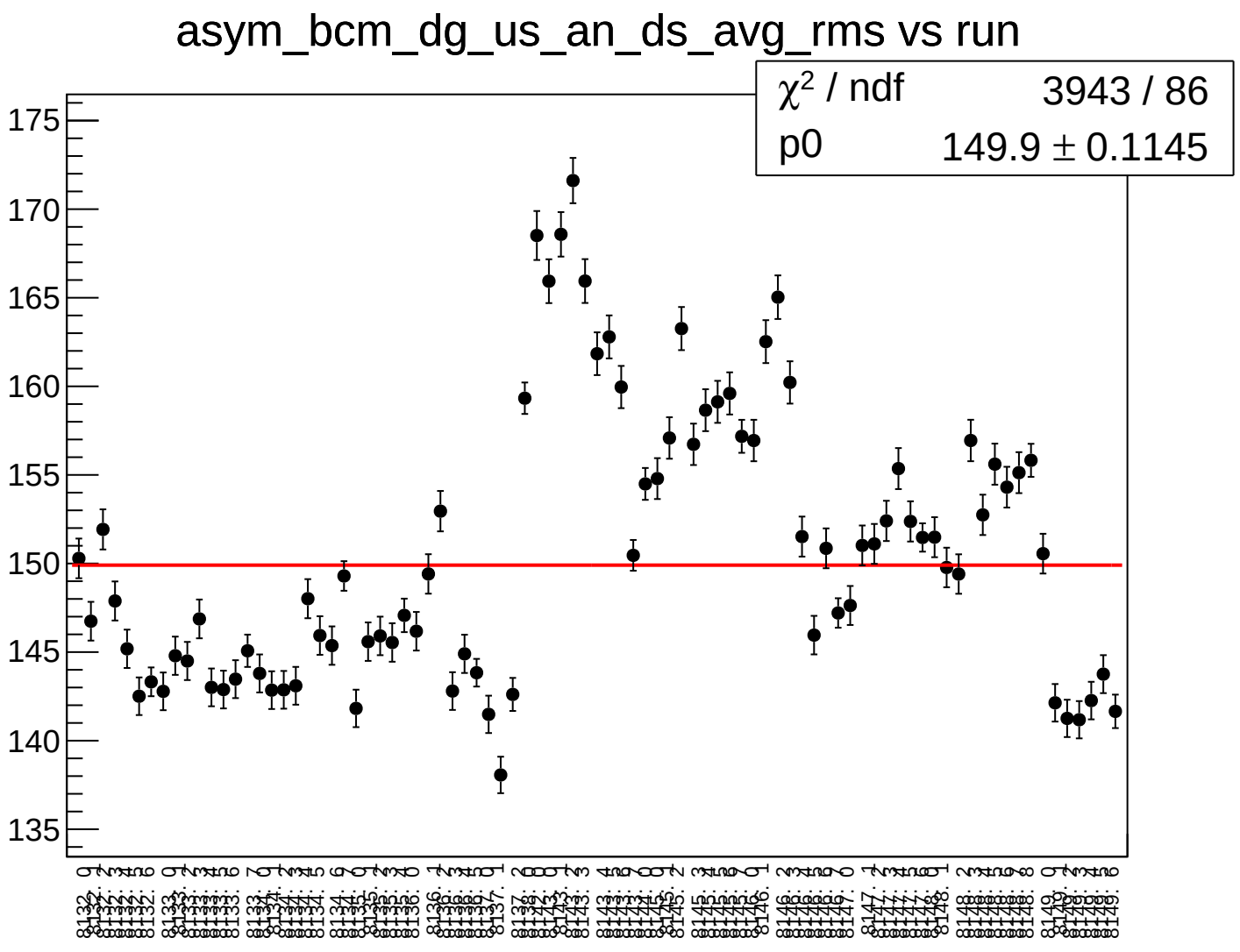

asym_bcm_dg_ds_an_us_dd_mean vs run
χ² / ndf 87.73 / 86
p0 −28.03 ± 18.29
pull
Entries 87
Mean 10.38
Std Dev 88.43

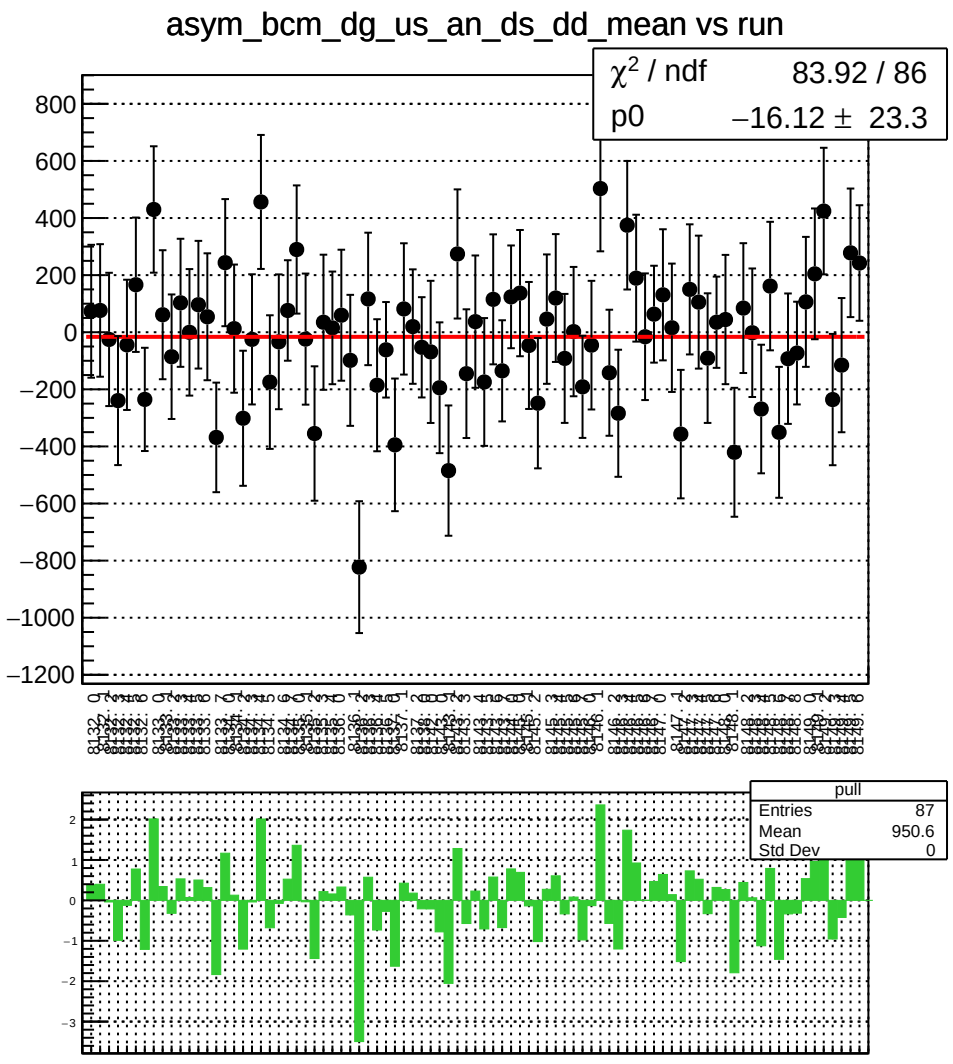

pull1D
Entries 87
Mean −0.007974
Std Dev 1.004

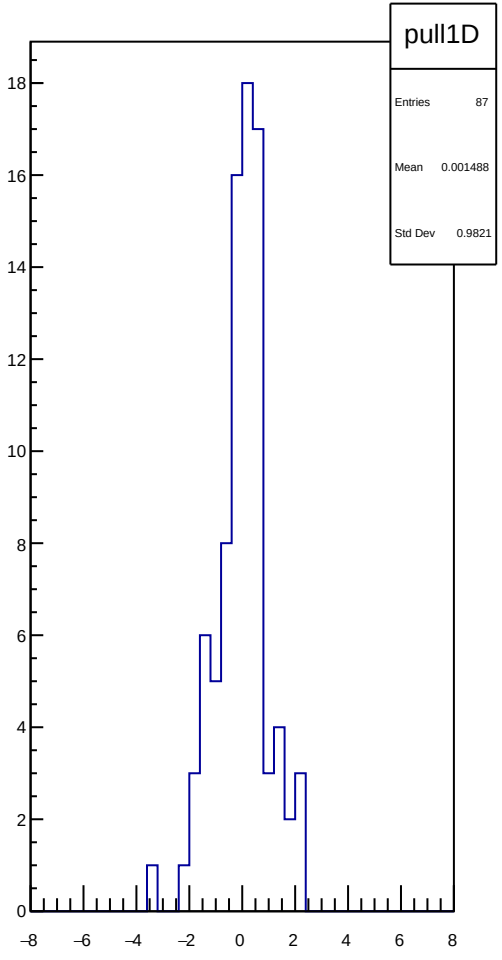

asym_bcm_dg_ds_an_us_dd_rms vs run
χ² / ndf 4262 / 86
p0 16.94 ± 0.01293
20
19
18
17
16
15

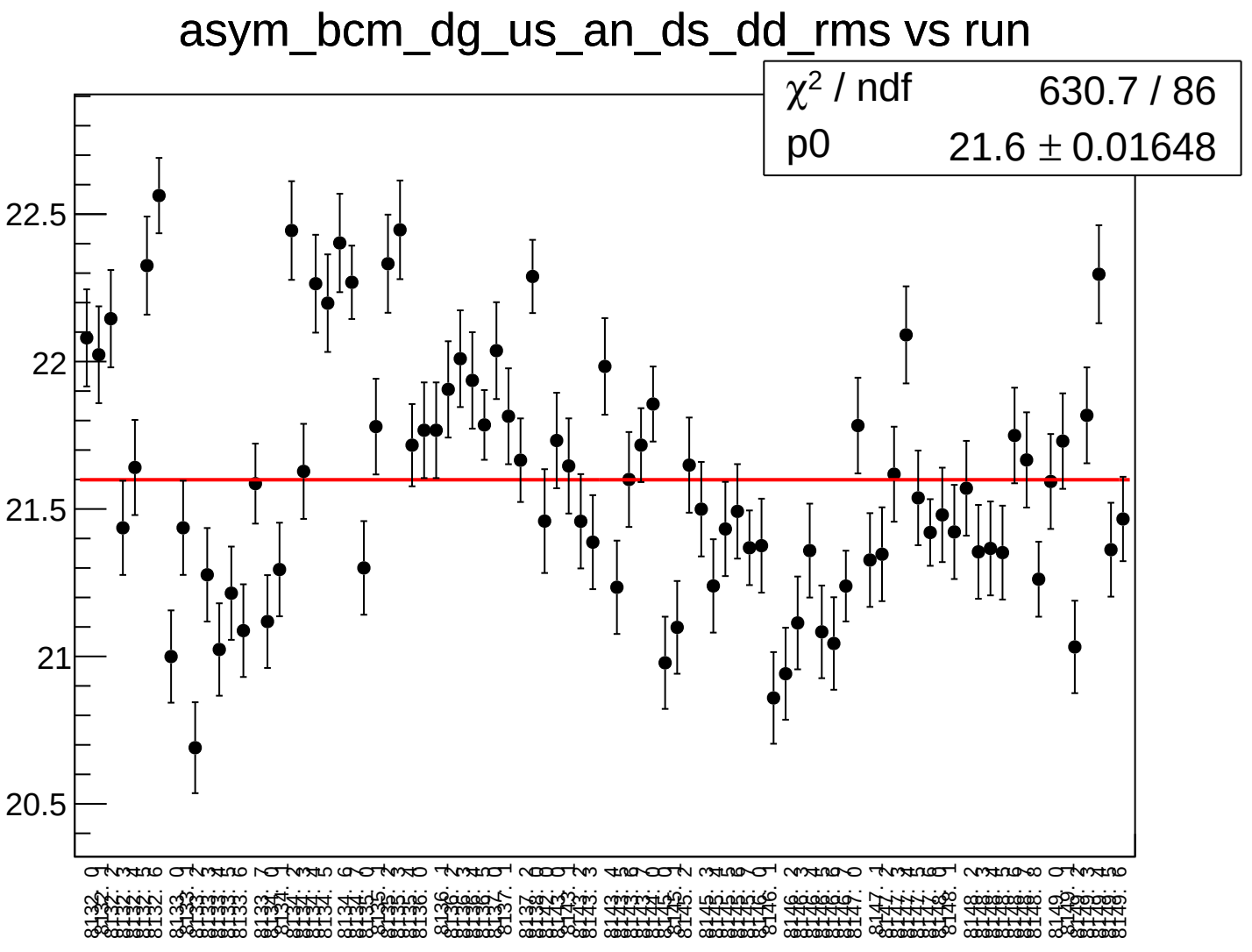

asym_bcm_dg_us_an_ds_avg_mean vs run
χ² / ndf 22.23 / 86
p0 −331.3 ± 161.9
4000
2000
0
−2000
−4000
pull
Entries 87
Mean −603.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

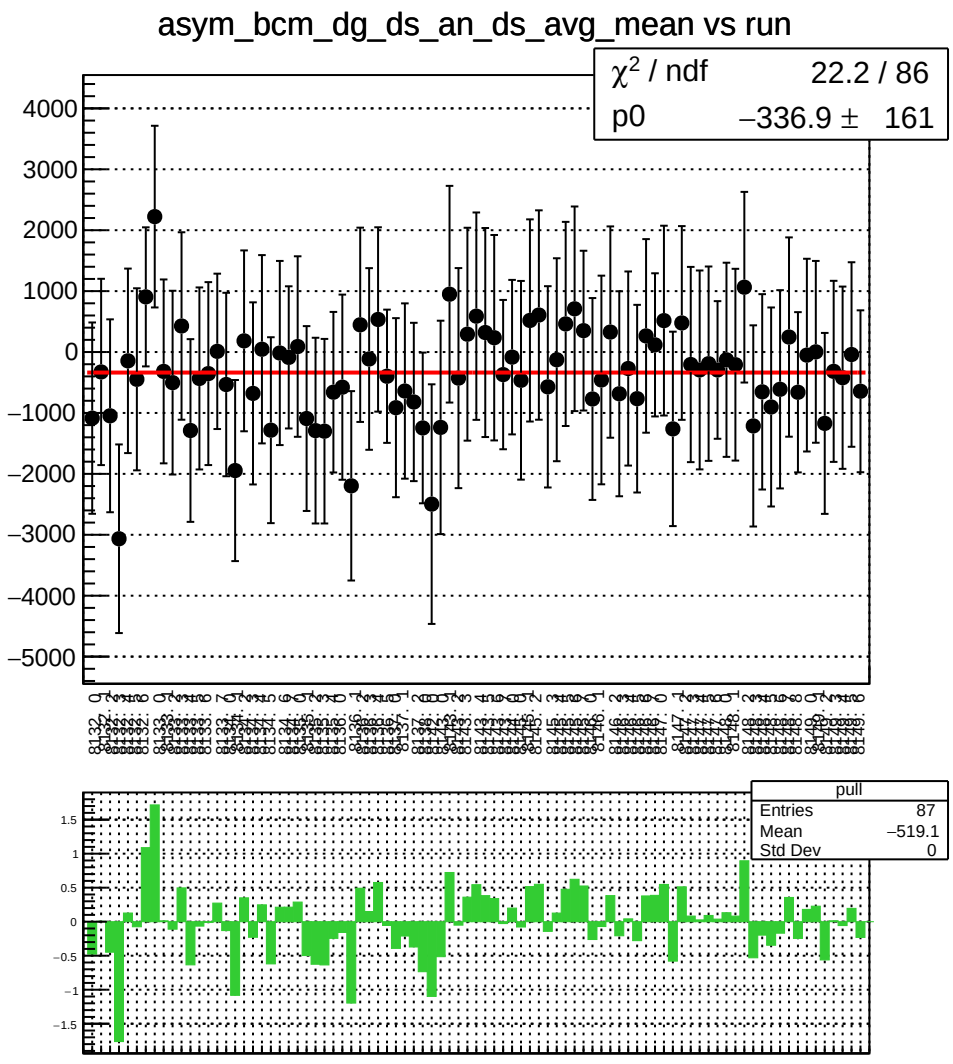

pull1D
Entries 87
Mean −0.002278
Std Dev 0.5055
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

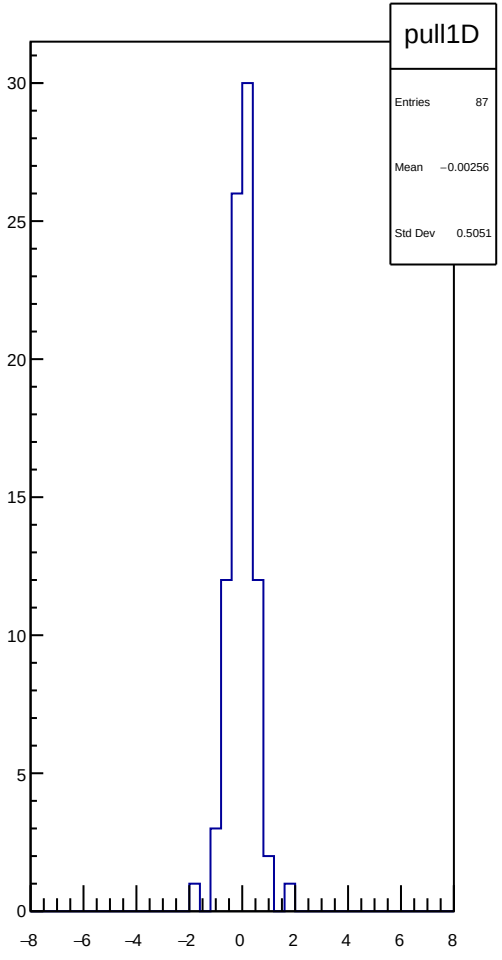

asym_bcm_dg_us_an_ds_avg_rms vs run
χ² / ndf 3943 / 86
p0 149.9 ± 0.1145
175
170
165
160
155
150
145
140
135

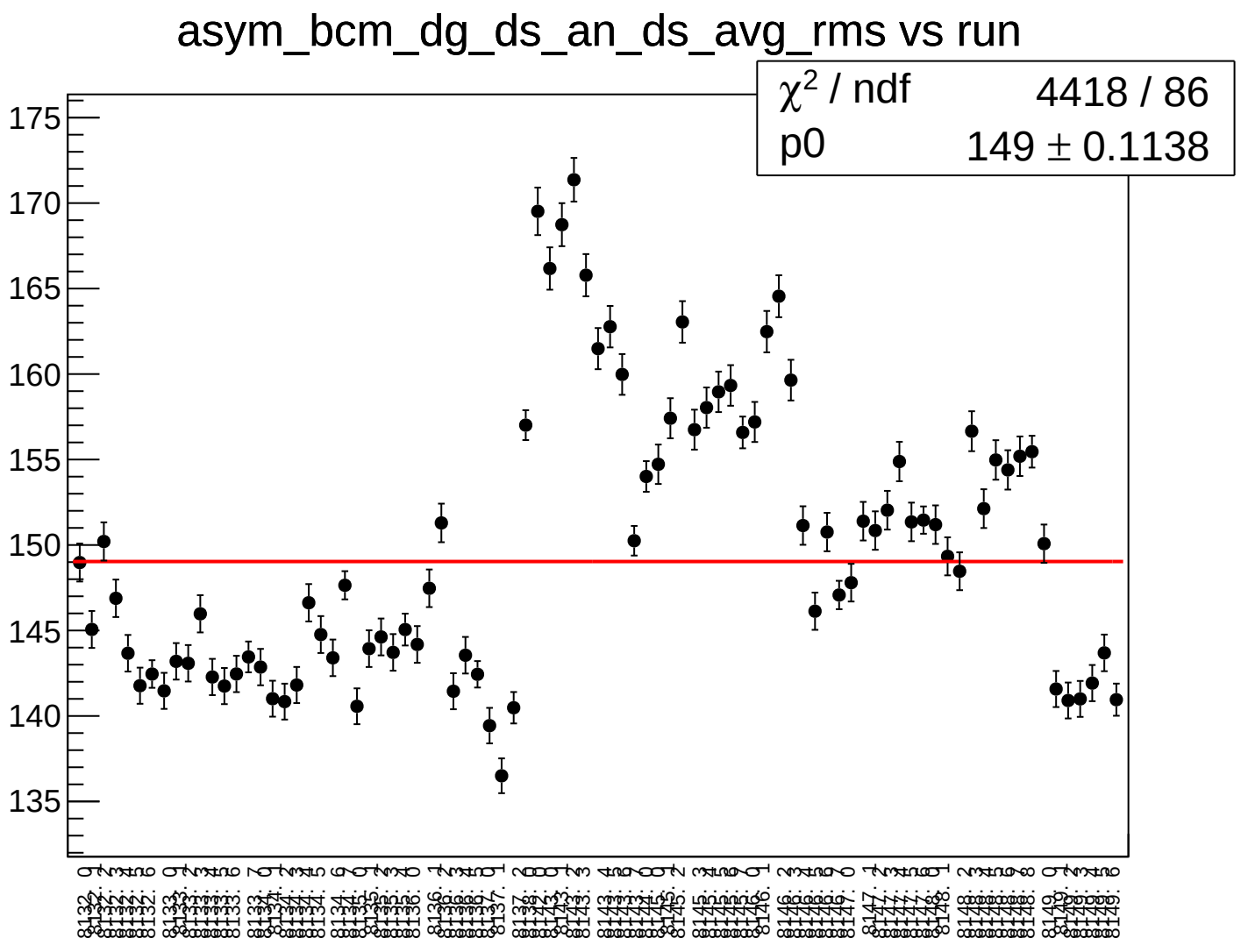

asym_bcm_dg_us_an_ds_dd_mean vs run
χ² / ndf 83.92 / 86
p0 −16.12 ± 23.3
pull
Entries 87
Mean 950.6
Std Dev 0

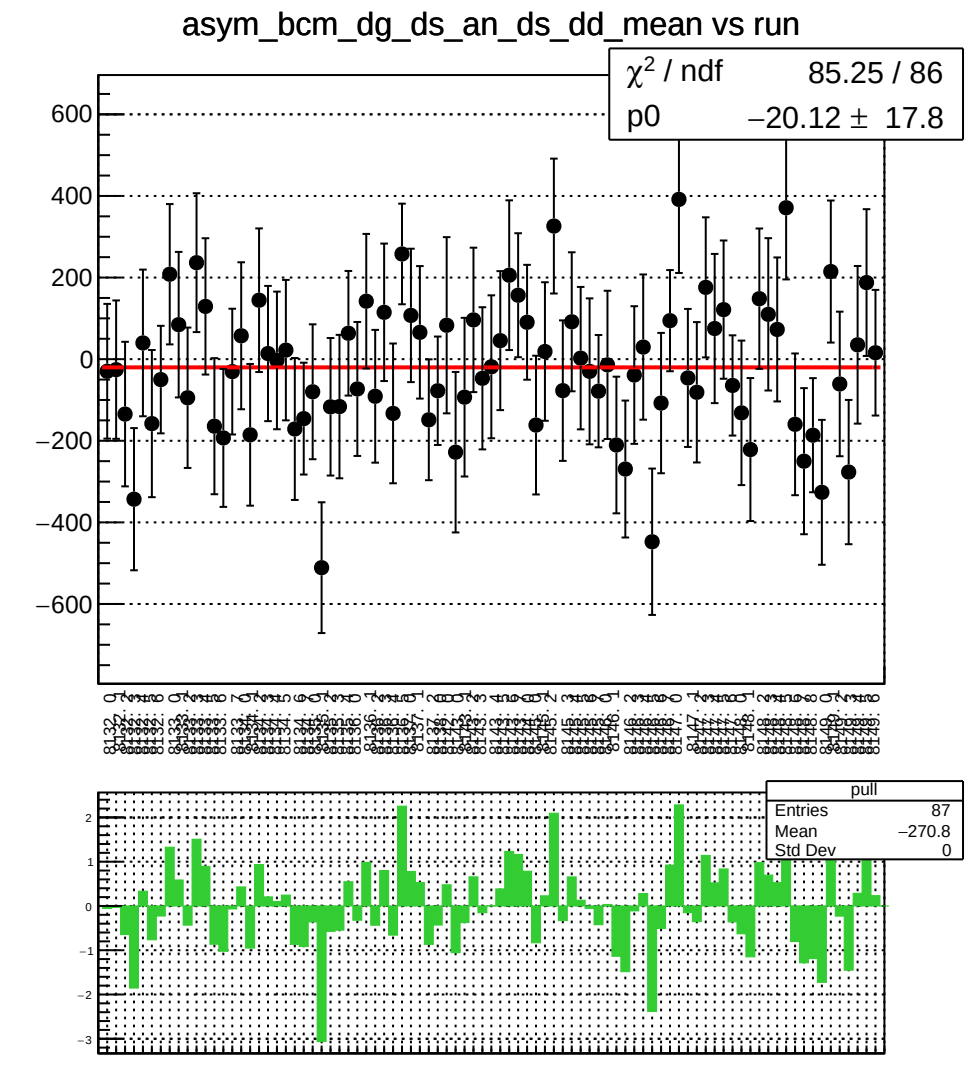

pull1D
Entries 87
Mean 0.001488
Std Dev 0.9821

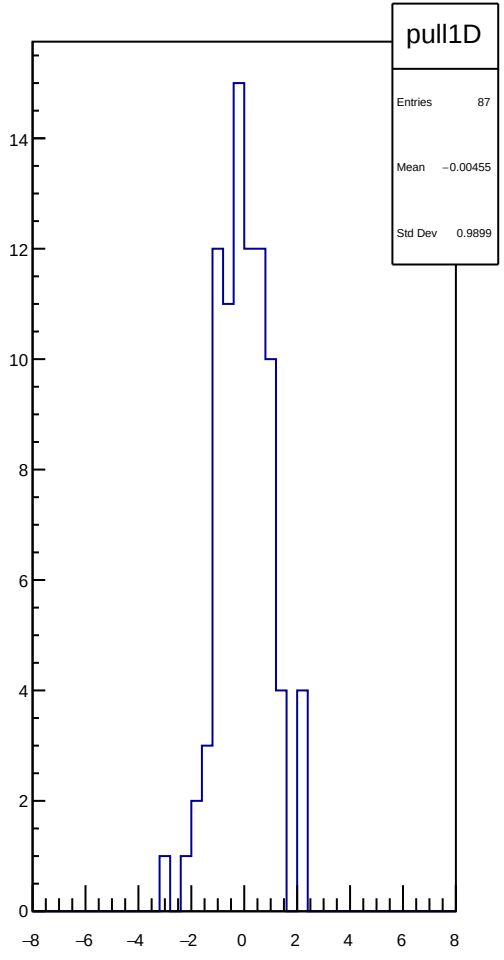

asym_bcm_dg_us_an_ds_dd_rms vs run
χ² / ndf 630.7 / 86
p0 21.6 ± 0.01648
22.5
22
21.5
21
20.5

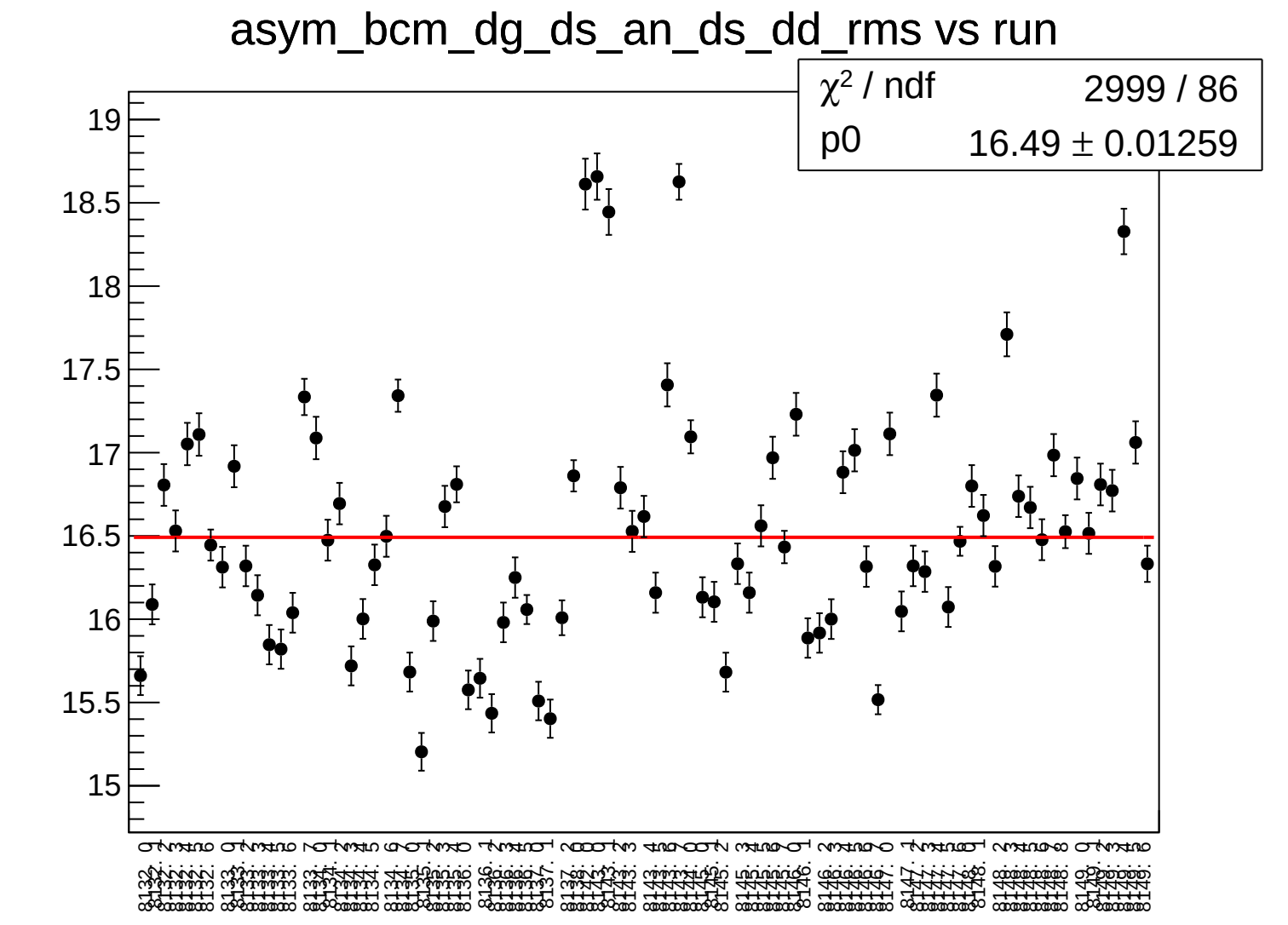

asym_bcm_dg_ds_an_ds_avg_mean vs run
χ² / ndf 22.2 / 86
p0 −336.9 ± 161
pull
Entries 87
Mean −519.1
Std Dev 0

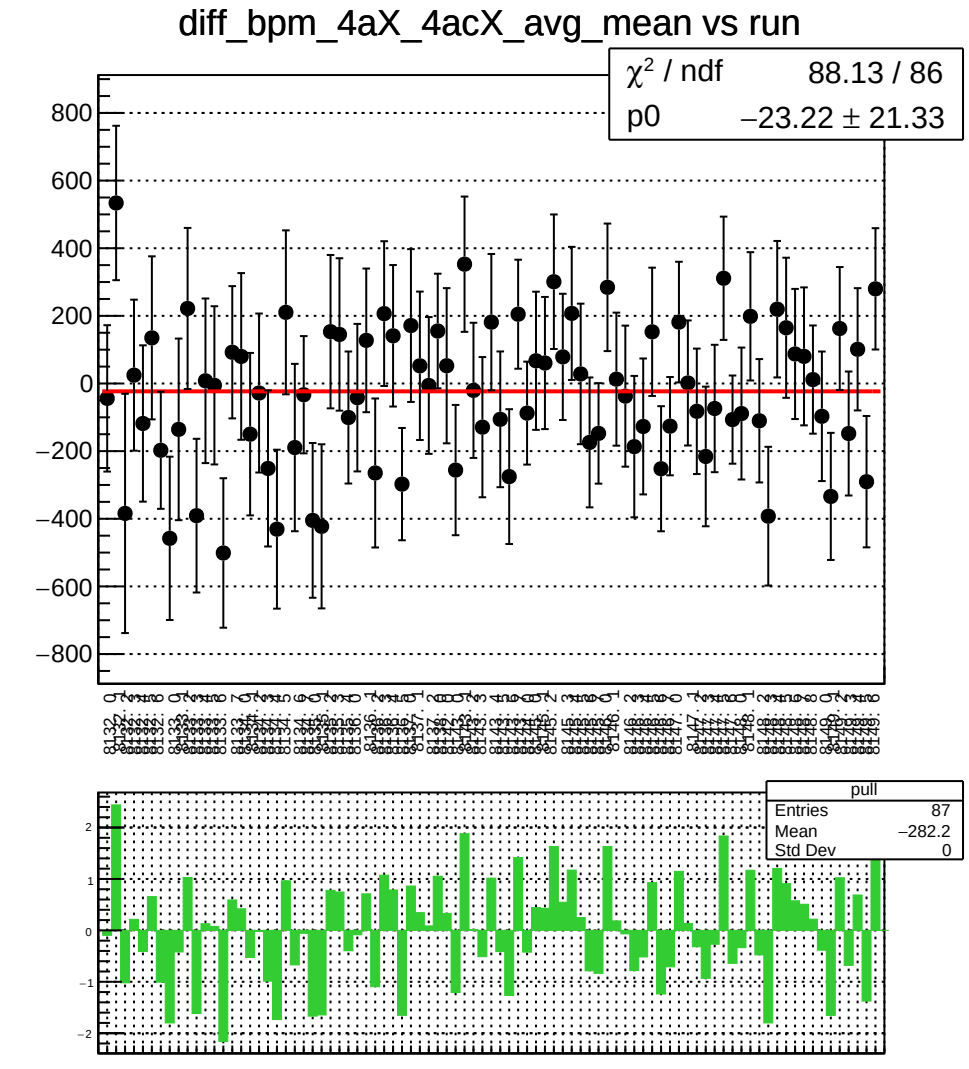

pull1D
Entries 87
Mean −0.00256
Std Dev 0.5051

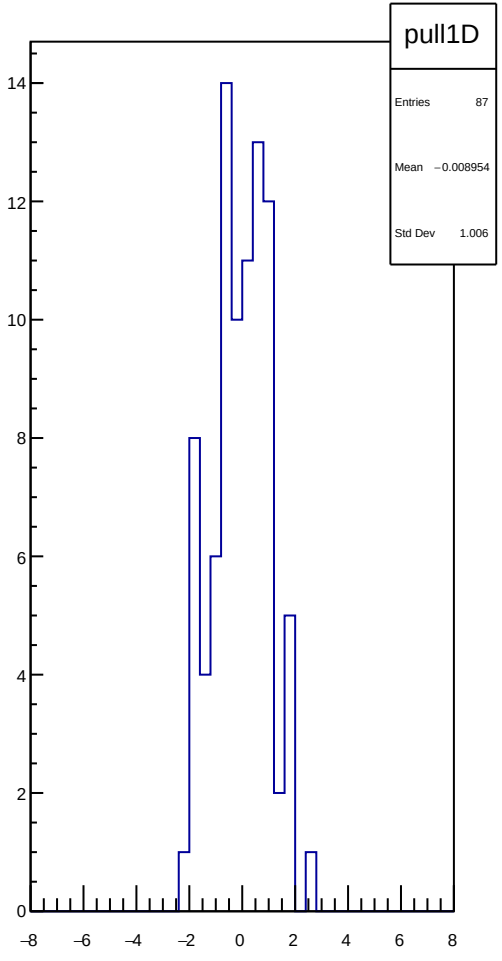

asym_bcm_dg_ds_an_ds_avg_rms vs run
χ² / ndf 4418 / 86
p0 149 ± 0.1138
175
170
165
160
155
150
145
140
135

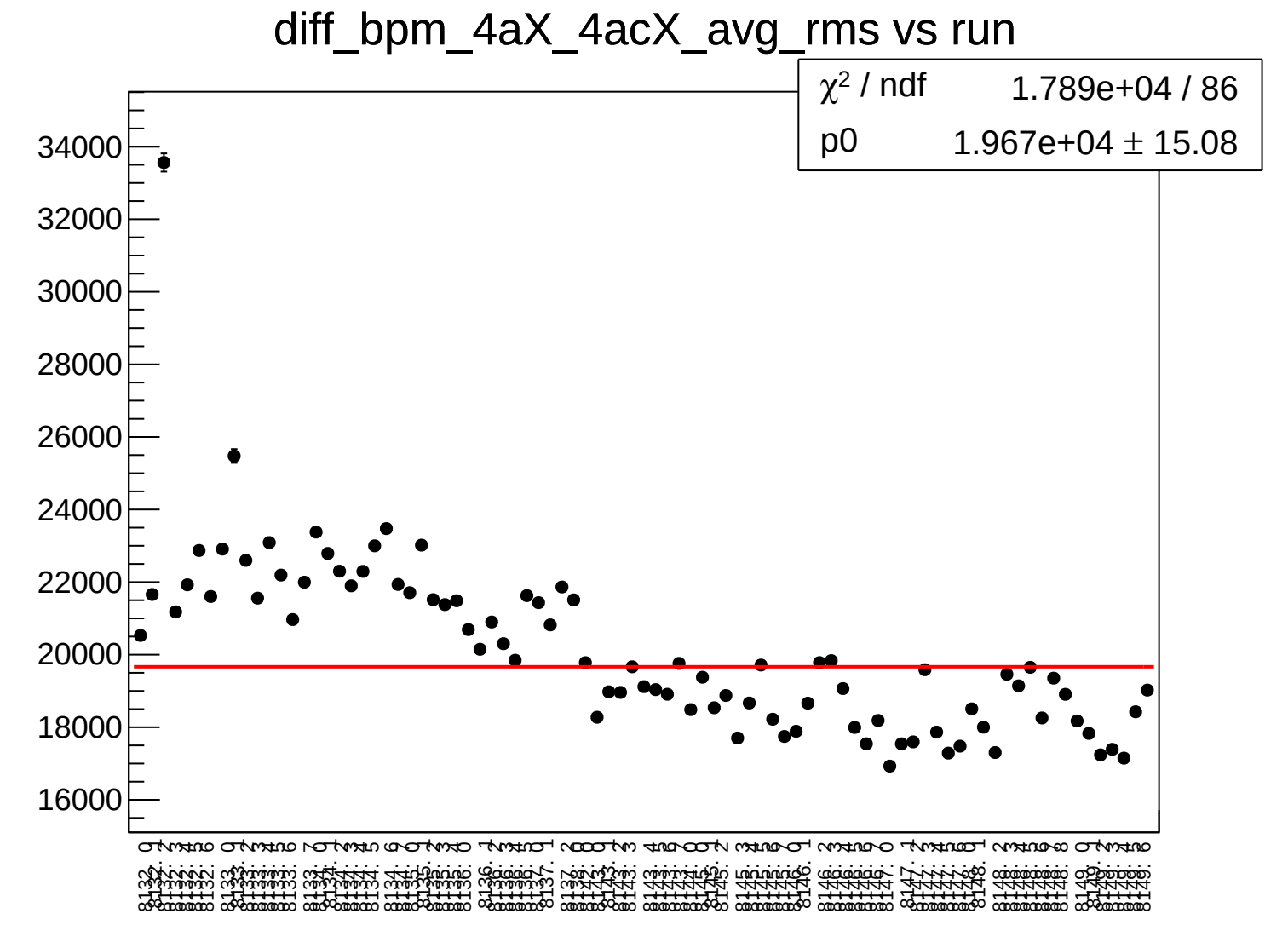

asym_bcm_dg_ds_an_ds_dd_mean vs run
χ² / ndf 85.25 / 86
p0 −20.12 ± 17.8
600
400
200
0
−200
−400
−600
pull
Entries 87
Mean −270.8
Std Dev 0
2
1
0
−1
−2
−3

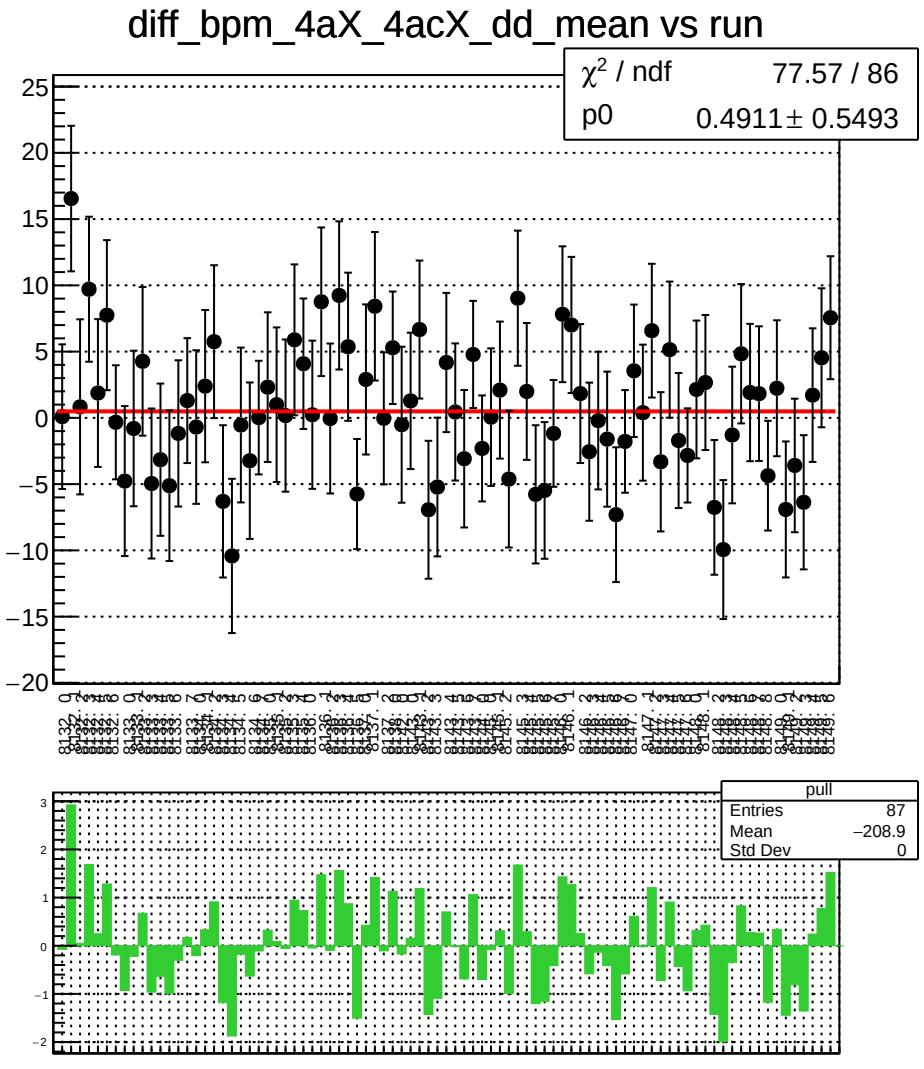

pull1D
Entries 87
Mean −0.00455
Std Dev 0.9899
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

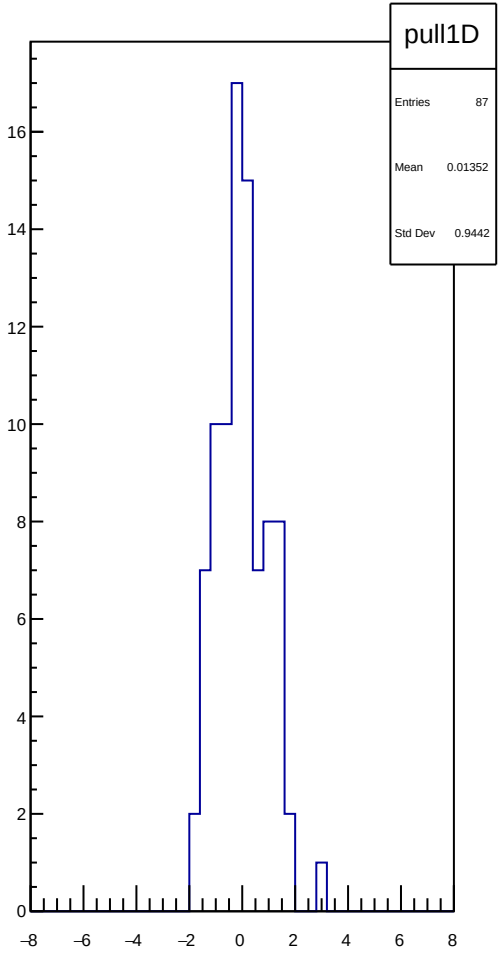

asym_bcm_dg_ds_an_ds_dd_rms vs run
χ² / ndf 2999 / 86
p0 16.49 ± 0.01259
19
18.5
18
17.5
17
16.5
16
15.5
15

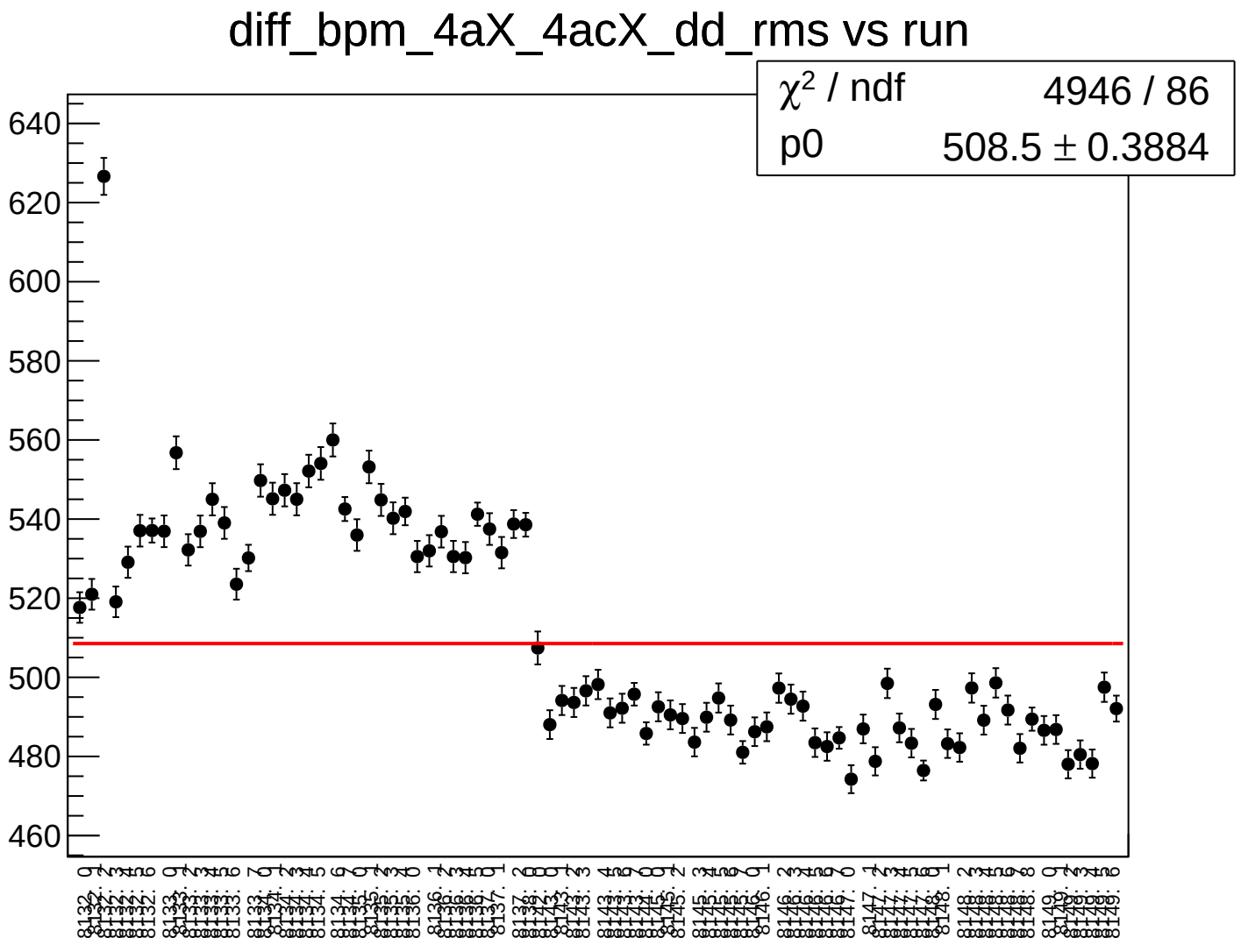

diff_bpm_4aX_4acX_avg_mean vs run
χ² / ndf 88.13 / 86
p0 −23.22 ± 21.33
pull
Entries 87
Mean −282.2
Std Dev 0

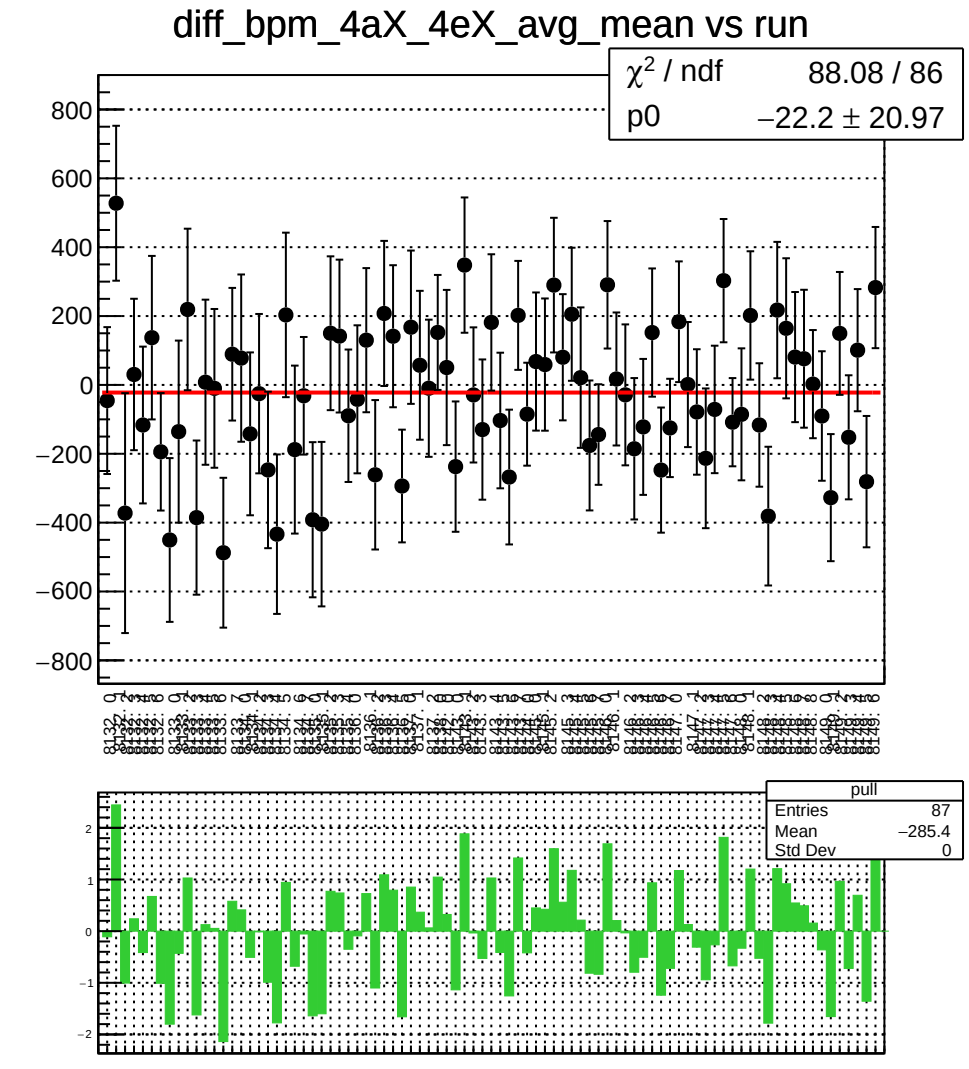

pull1D
Entries 87
Mean −0.008954
Std Dev 1.006

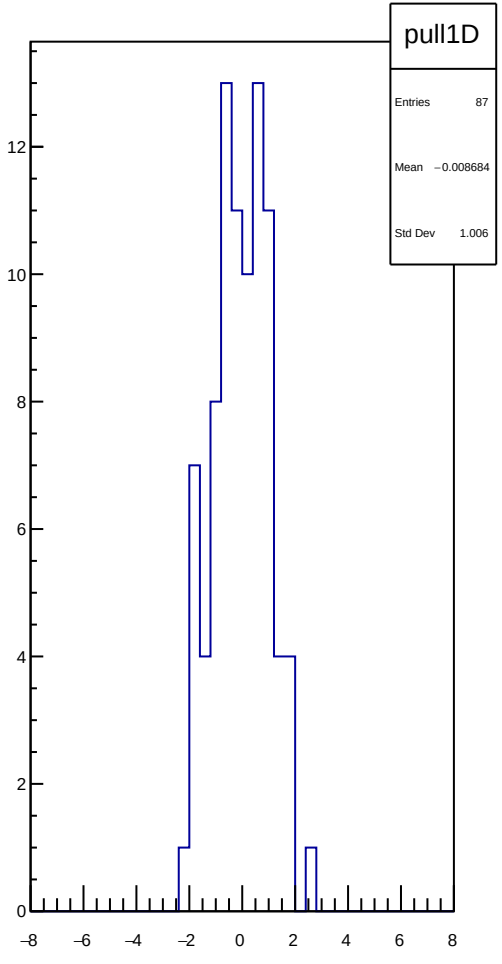

diff_bpm_4aX_4acX_avg_rms vs run
χ² / ndf 1.789e+04 / 86
p0 1.967e+04 ± 15.08
34000
32000
30000
28000
26000
24000
22000
20000
18000
16000

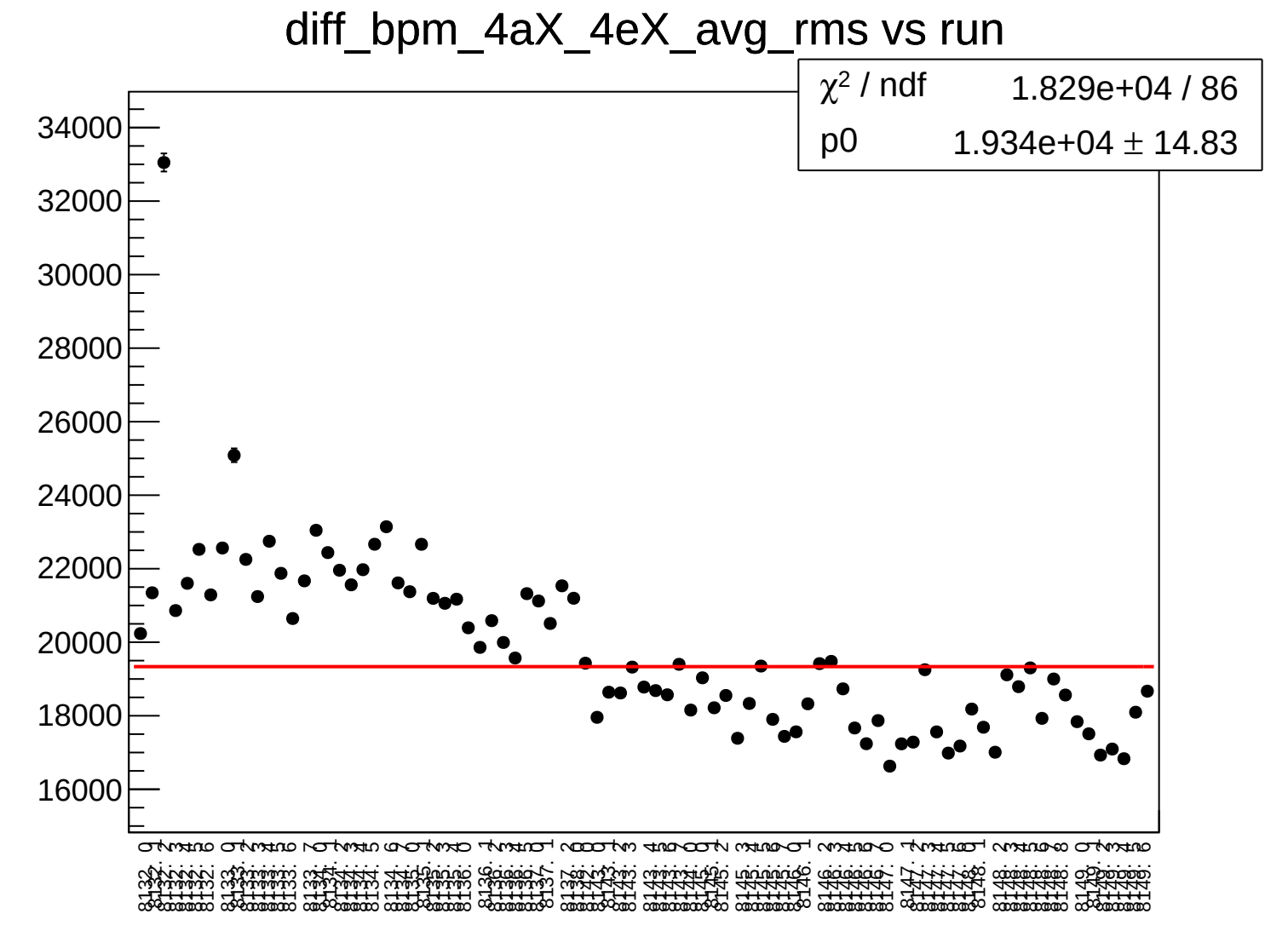

diff_bpm_4aX_4acX_dd_mean vs run
χ² / ndf 77.57 / 86
p0 0.4911 ± 0.5493
pull
Entries 87
Mean −208.9
Std Dev 0

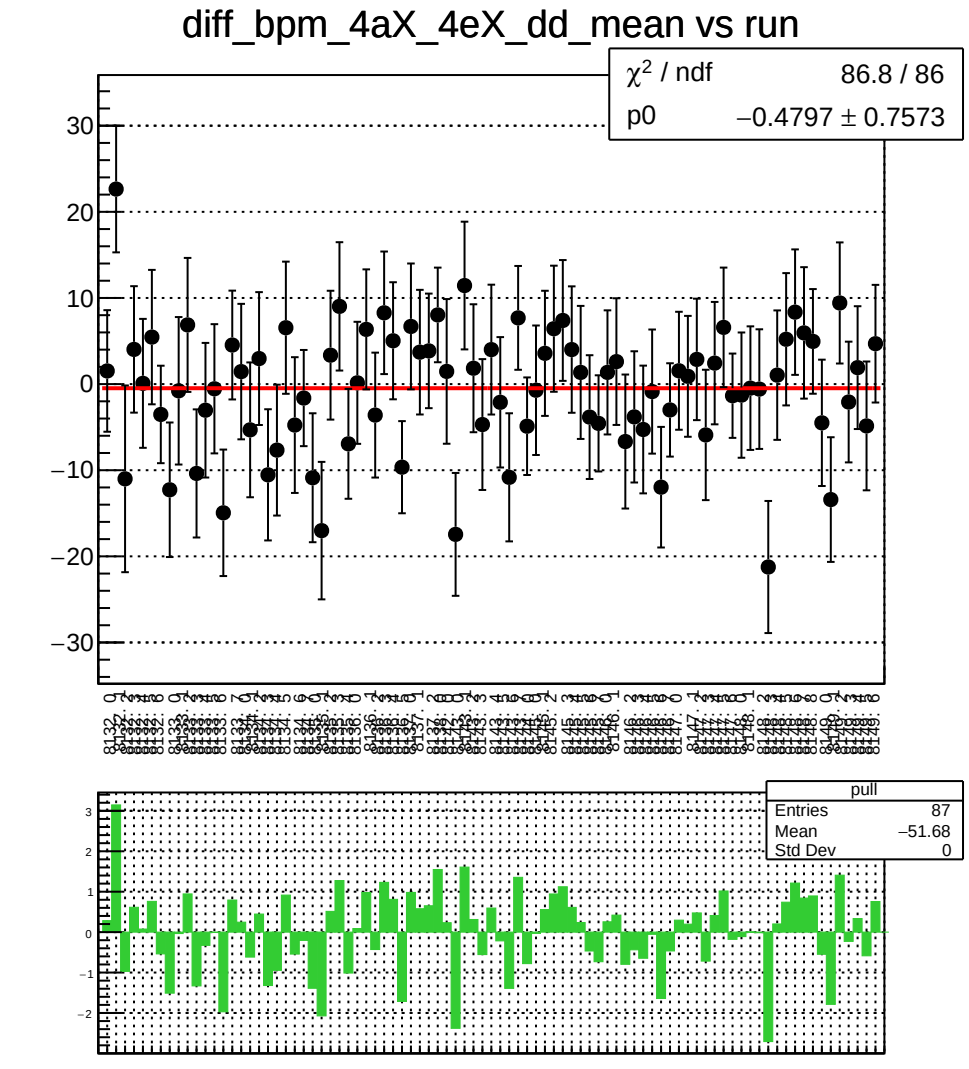

pull1D
Entries 87
Mean 0.01352
Std Dev 0.9442

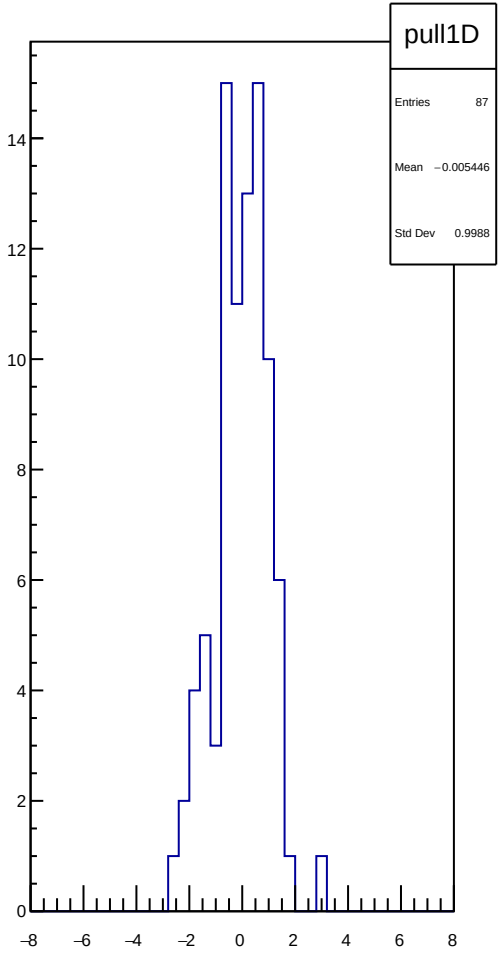

diff_bpm_4aX_4acX_dd_rms vs run
χ² / ndf 4946 / 86
p0 508.5 ± 0.3884
640
620
600
580
560
540
520
500
480
460

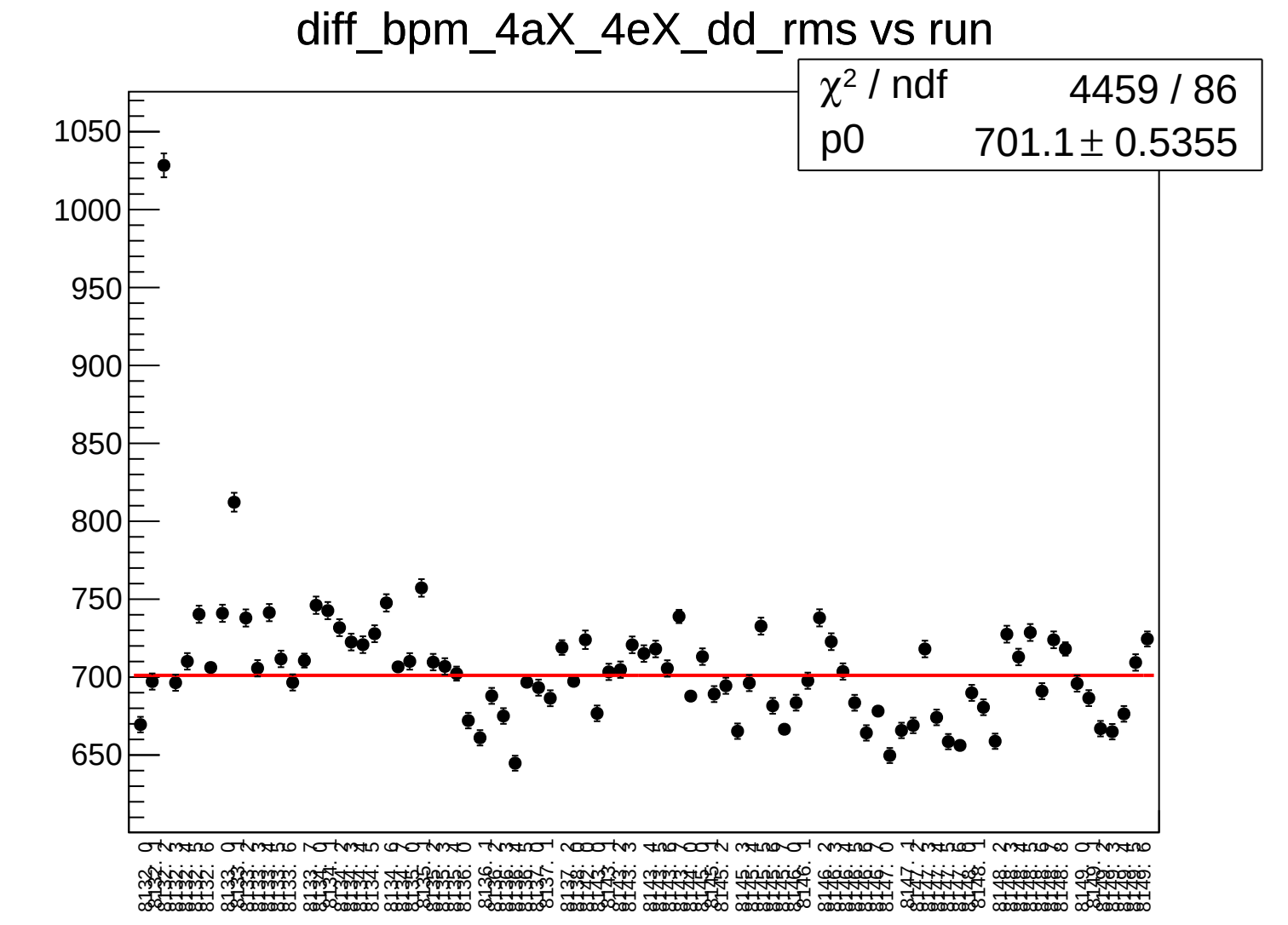

diff_bpm_4aX_4eX_avg_mean vs run
χ² / ndf 88.08 / 86
p0 −22.2 ± 20.97
pull
Entries 87
Mean −285.4
Std Dev 0

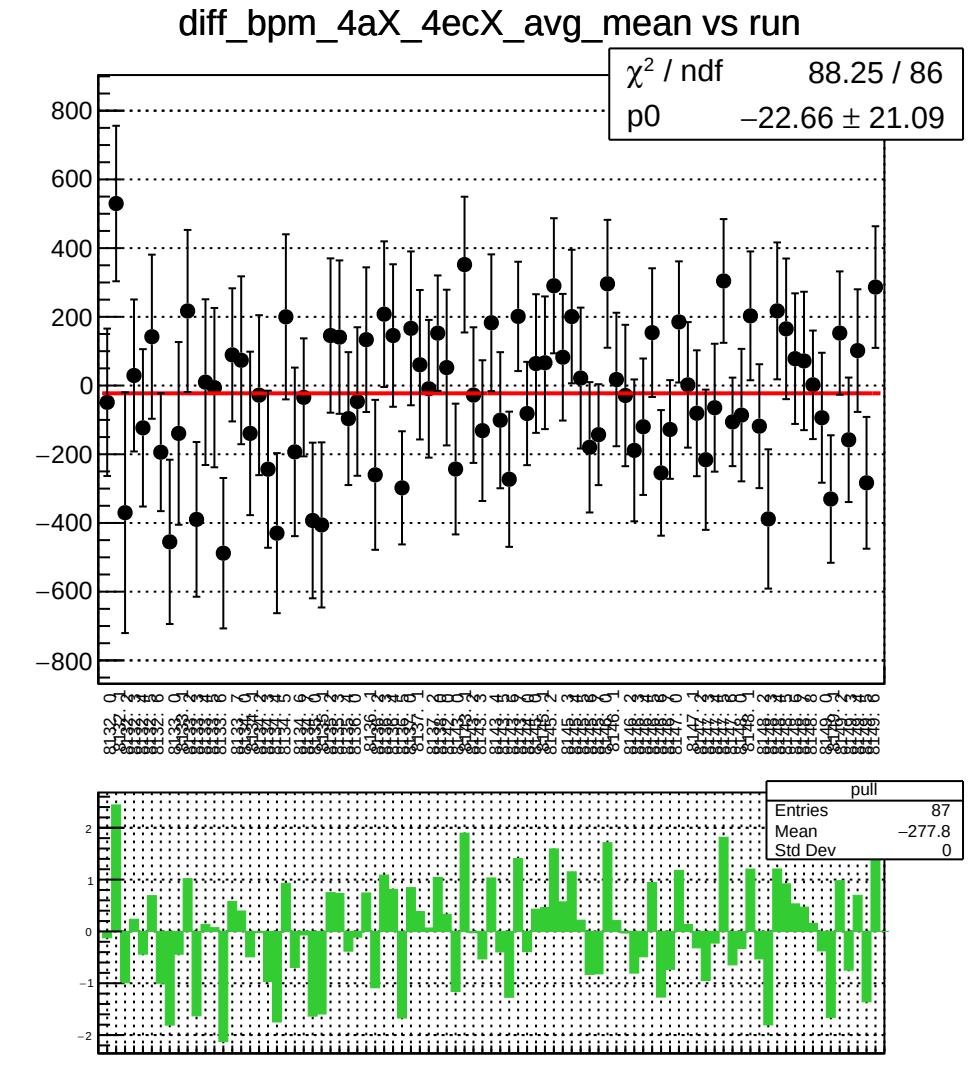

pull1D
Entries 87
Mean −0.008684
Std Dev 1.006

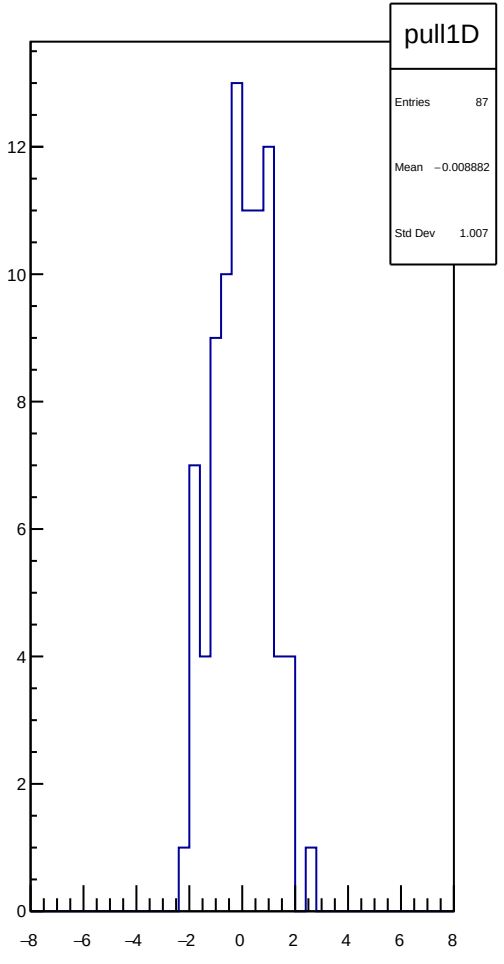

diff_bpm_4aX_4eX_avg_rms vs run
χ² / ndf 1.829e+04 / 86
p0 1.934e+04 ± 14.83
34000
32000
30000
28000
26000
24000
22000
20000
18000
16000

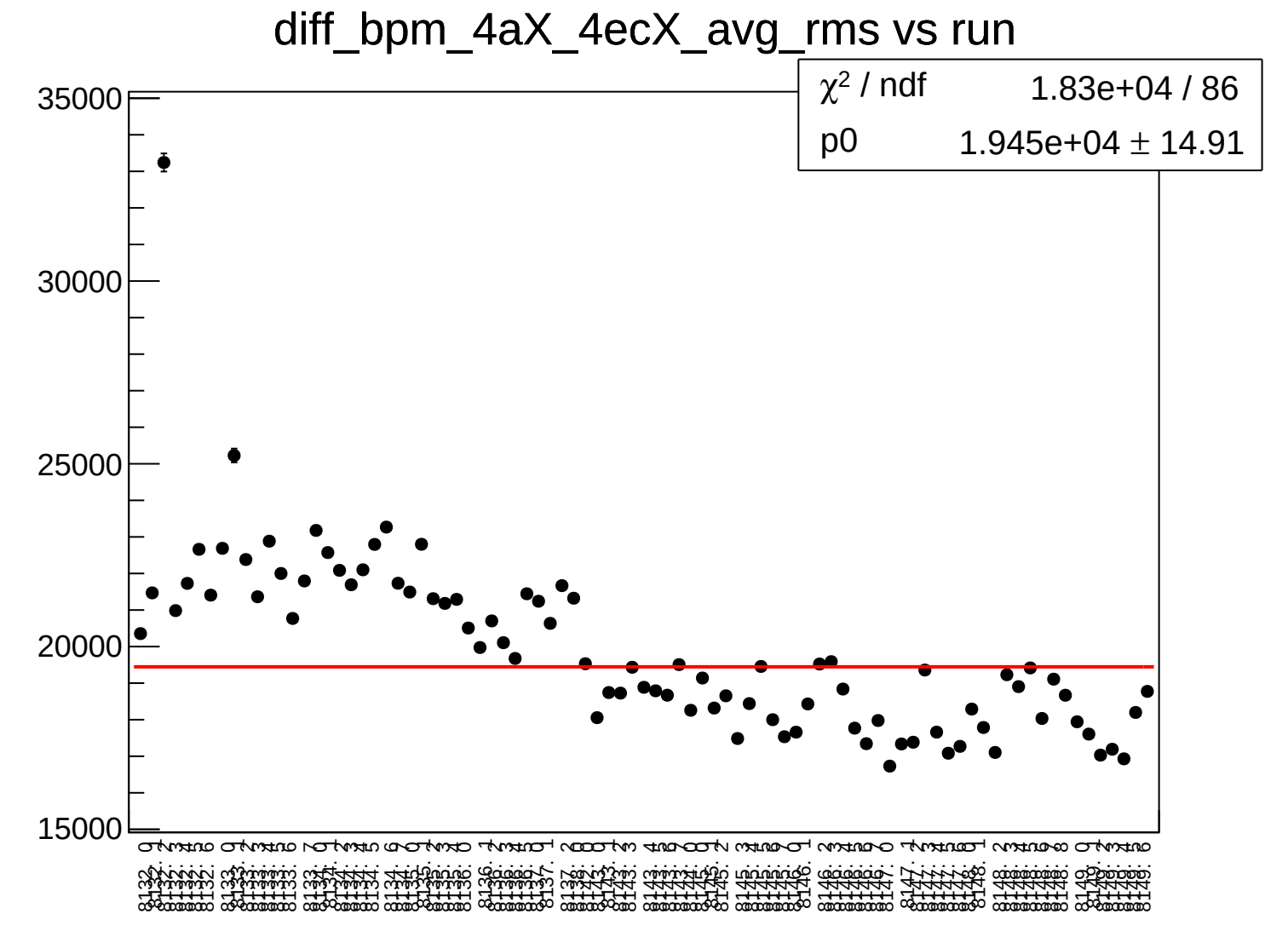

diff_bpm_4aX_4eX_dd_mean vs run
χ² / ndf 86.8 / 86
p0 −0.4797 ± 0.7573
pull
Entries 87
Mean −51.68
Std Dev 0

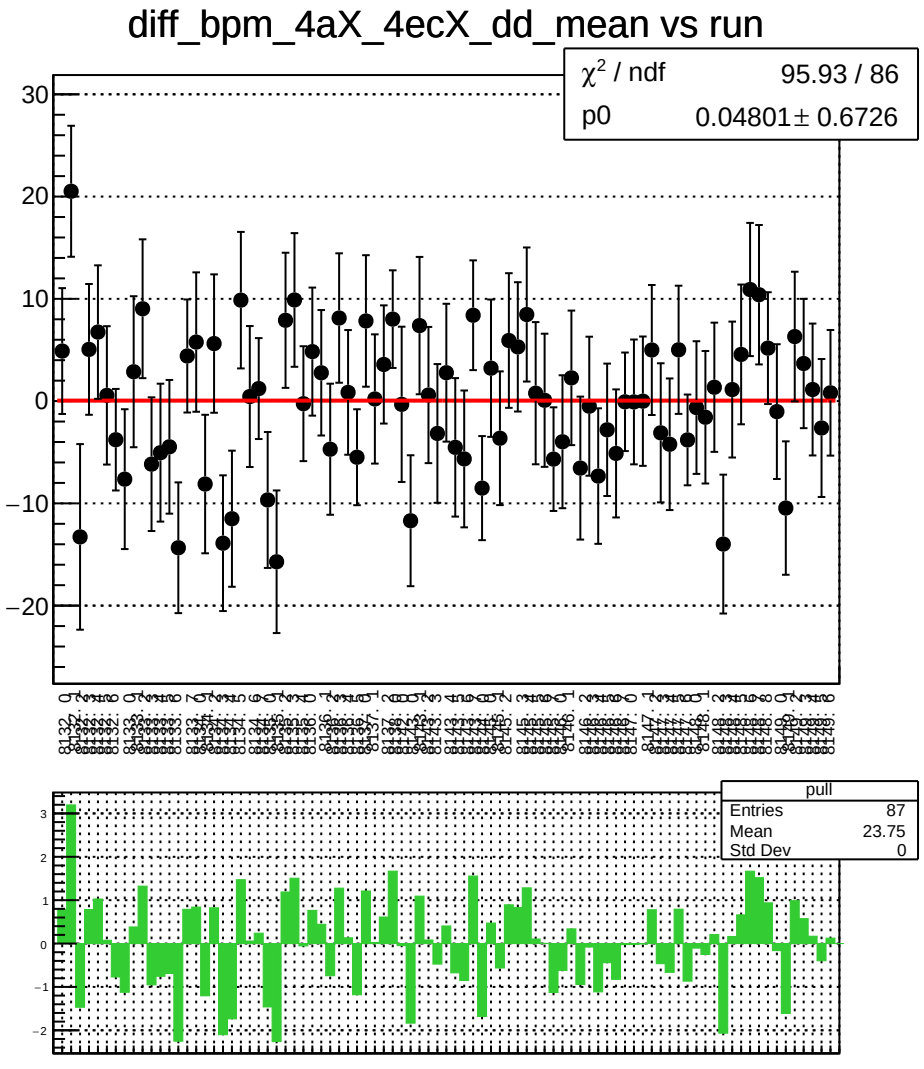

pull1D
Entries 87
Mean −0.005446
Std Dev 0.9988

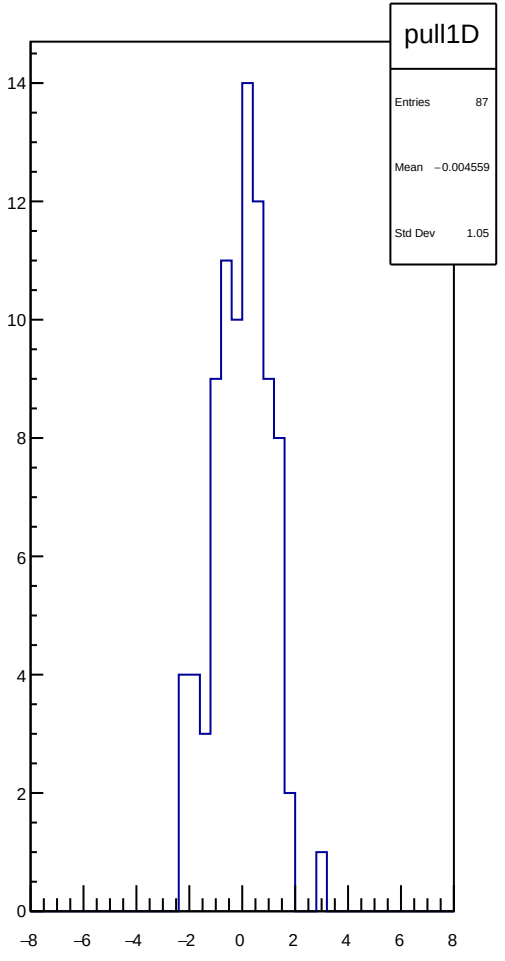

diff_bpm_4aX_4eX_dd_rms vs run
χ² / ndf 4459 / 86
p0 701.1 ± 0.5355
1050
1000
950
900
850
800
750
700
650

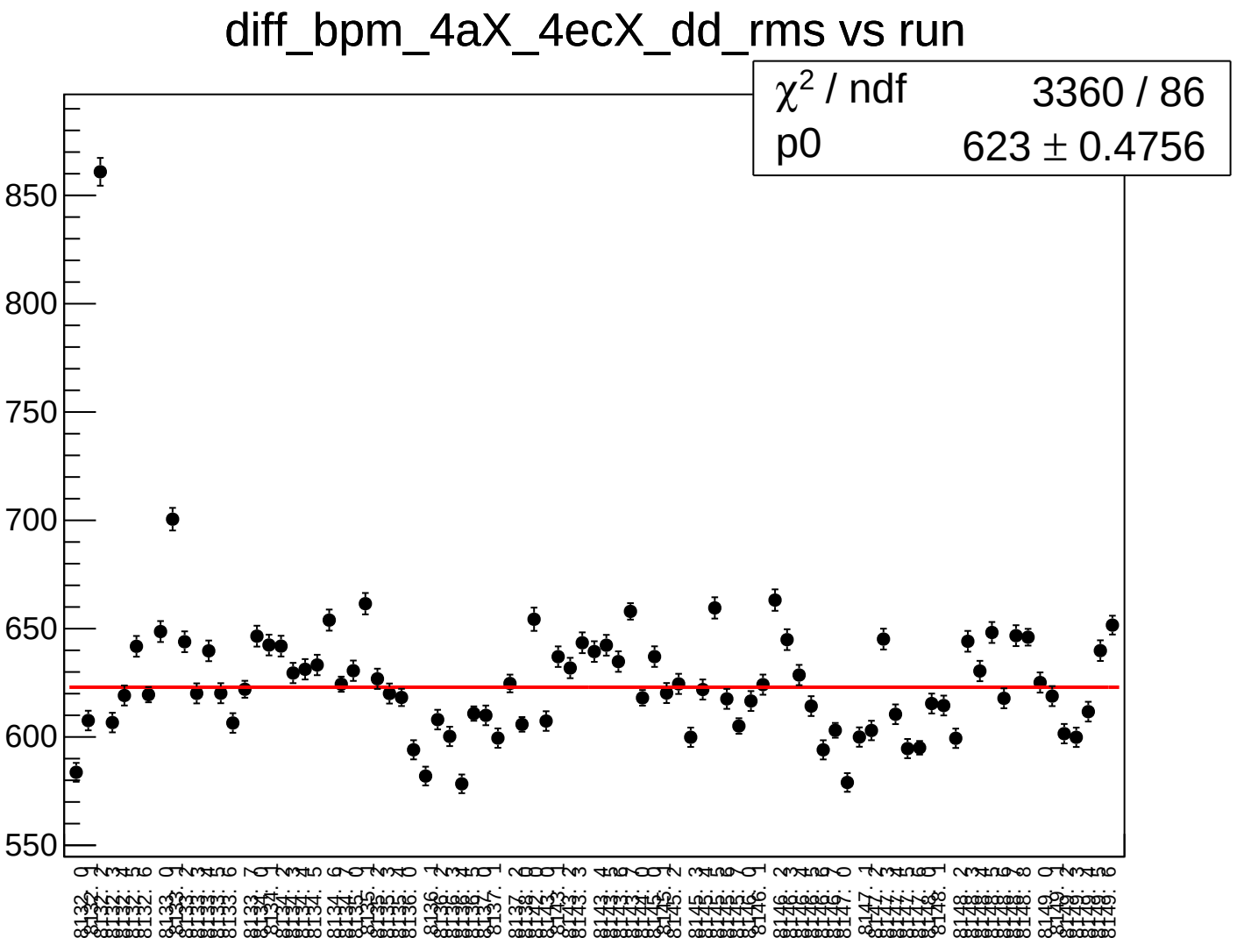

diff_bpm_4aX_4ecX_avg_mean vs run
χ² / ndf 88.25 / 86
p0 −22.66 ± 21.09
pull
Entries 87
Mean −277.8
Std Dev 0

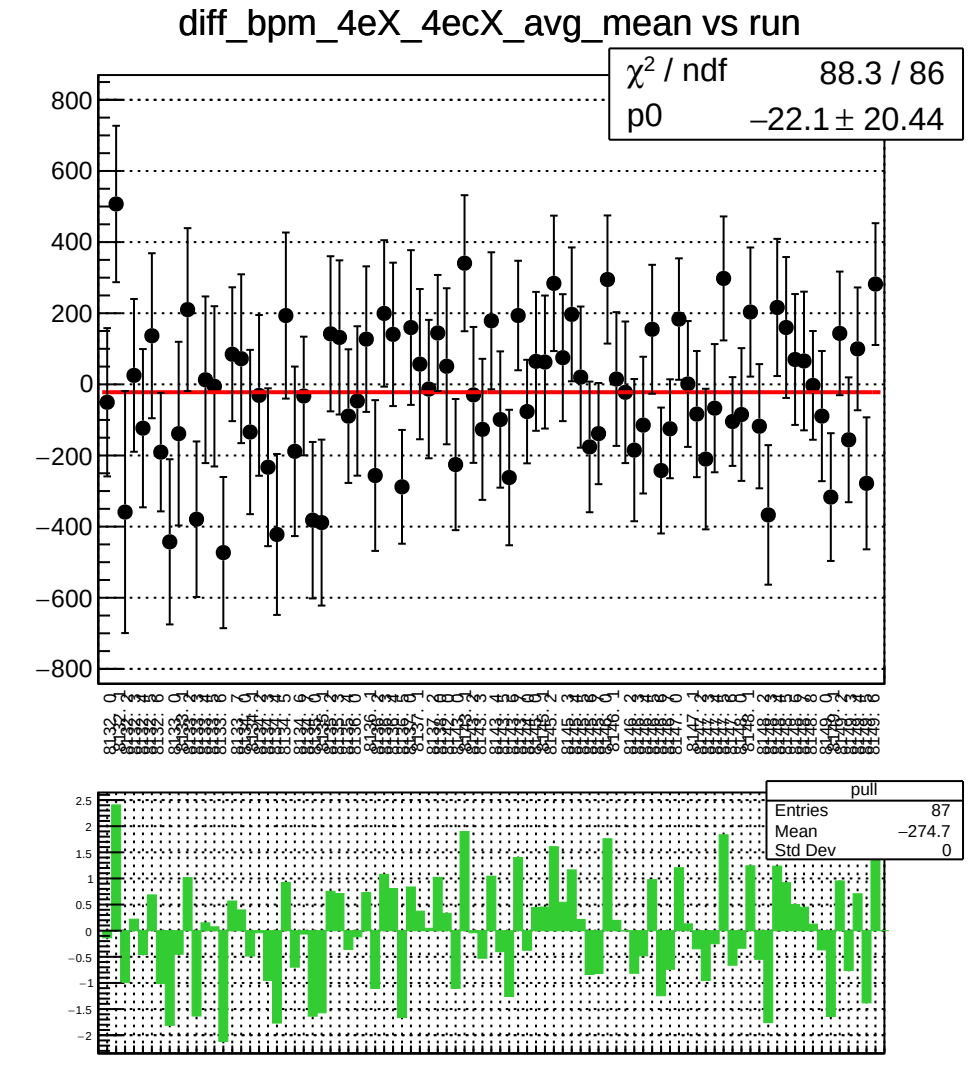

pull1D
Entries 87
Mean −0.008882
Std Dev 1.007

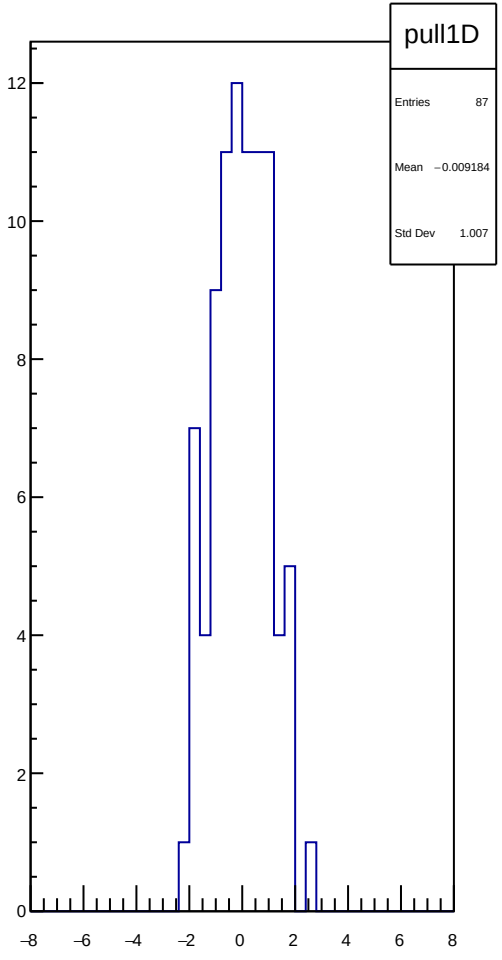

diff_bpm_4aX_4ecX_avg_rms vs run
χ² / ndf 1.83e+04 / 86
p0 1.945e+04 ± 14.91
35000
30000
25000
20000
15000

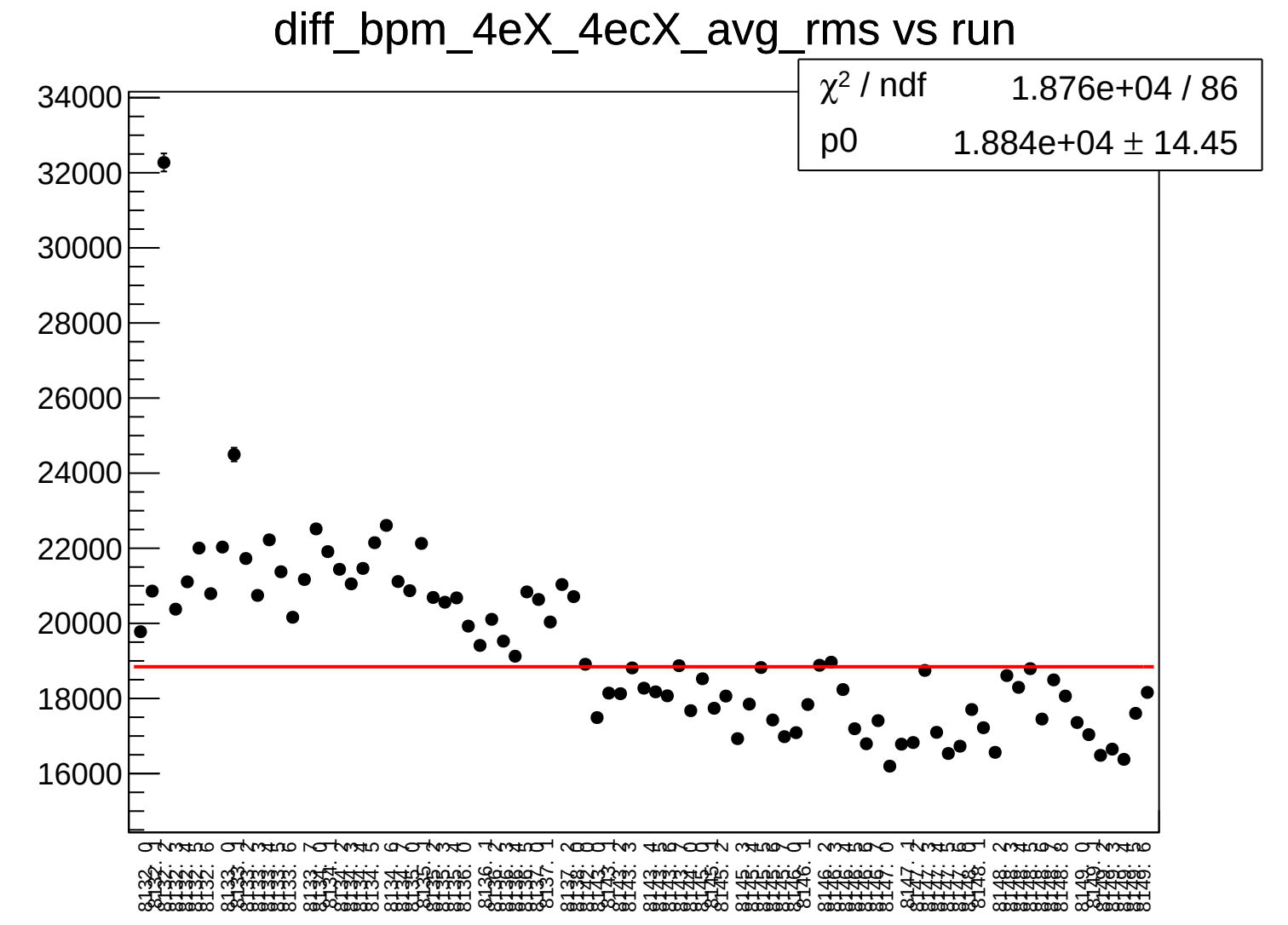

diff_bpm_4aX_4ecX_dd_mean vs run
χ² / ndf 95.93 / 86
p0 0.04801 ± 0.6726
pull
Entries 87
Mean 23.75
Std Dev 0

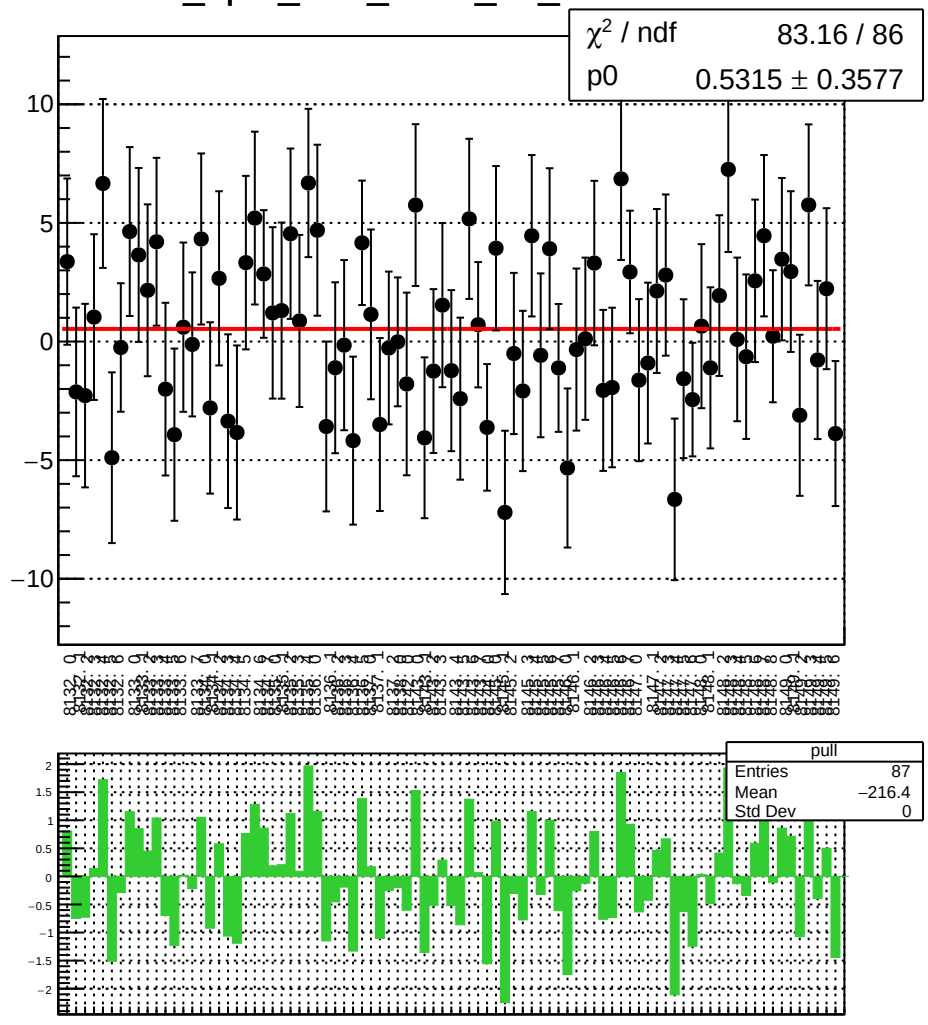

pull1D
Entries 87
Mean −0.004559
Std Dev 1.05

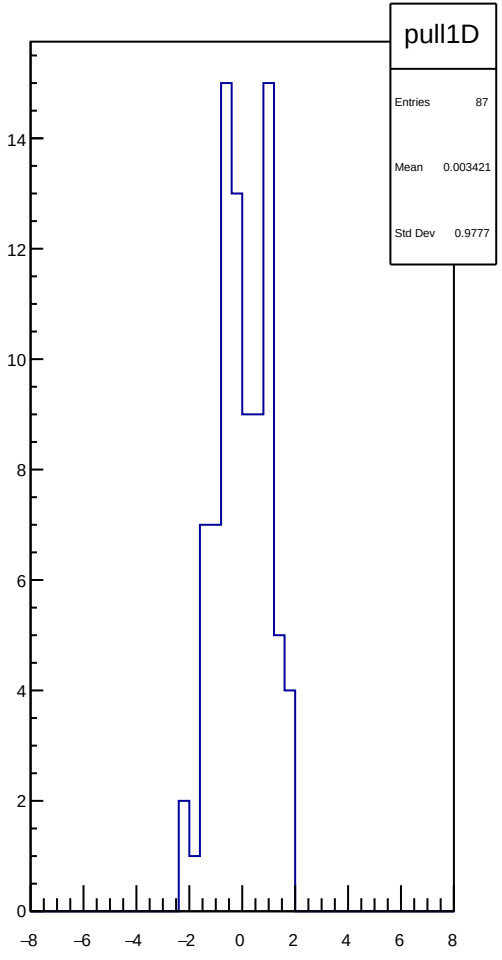

diff_bpm_4aX_4ecX_dd_rms vs run
χ² / ndf 3360 / 86
p0 623 ± 0.4756
850
800
750
700
650
600
550

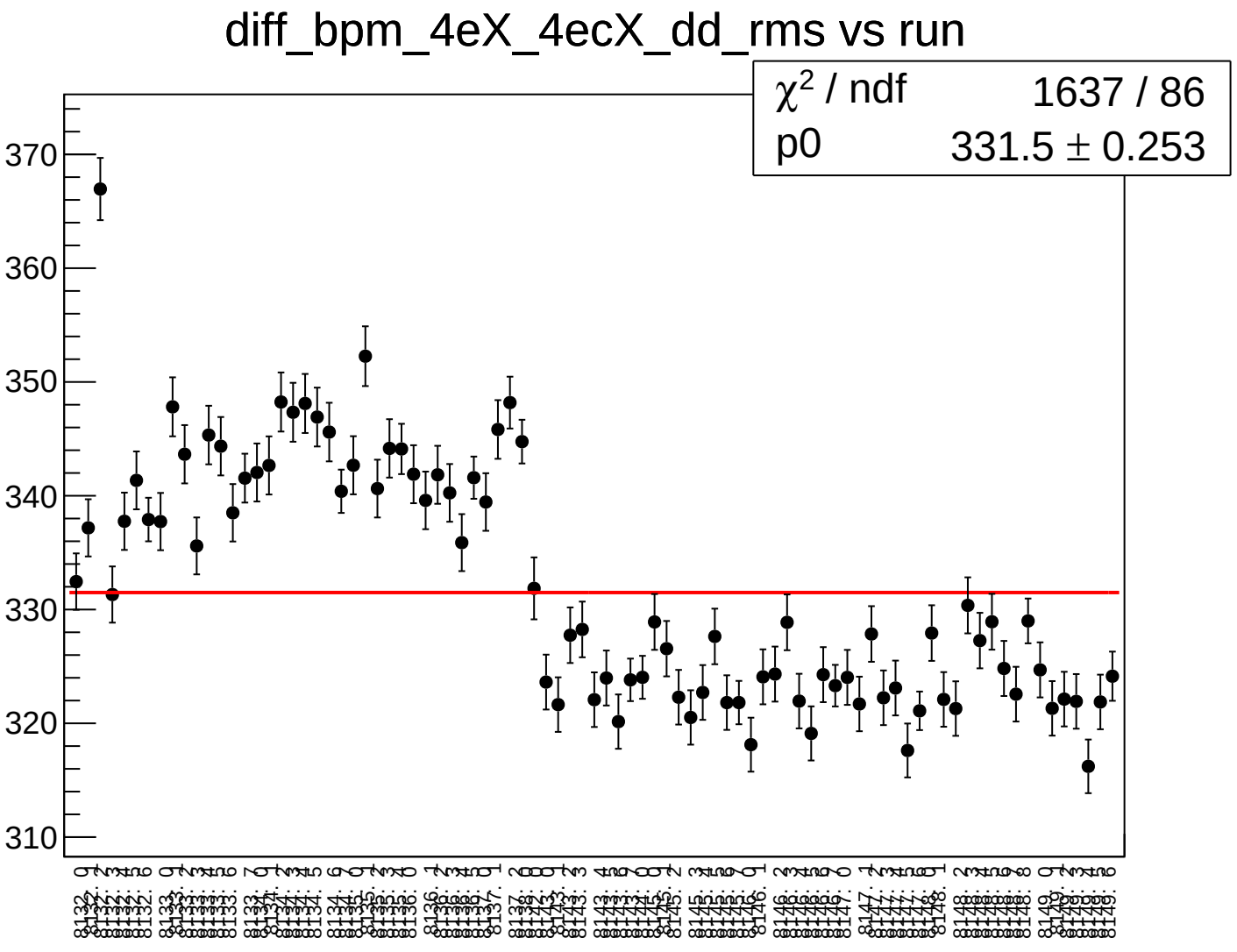

diff_bpm_4eX_4ecX_avg_mean vs run
χ² / ndf 88.3 / 86
p0 −22.1 ± 20.44
pull
Entries 87
Mean −274.7
Std Dev 0

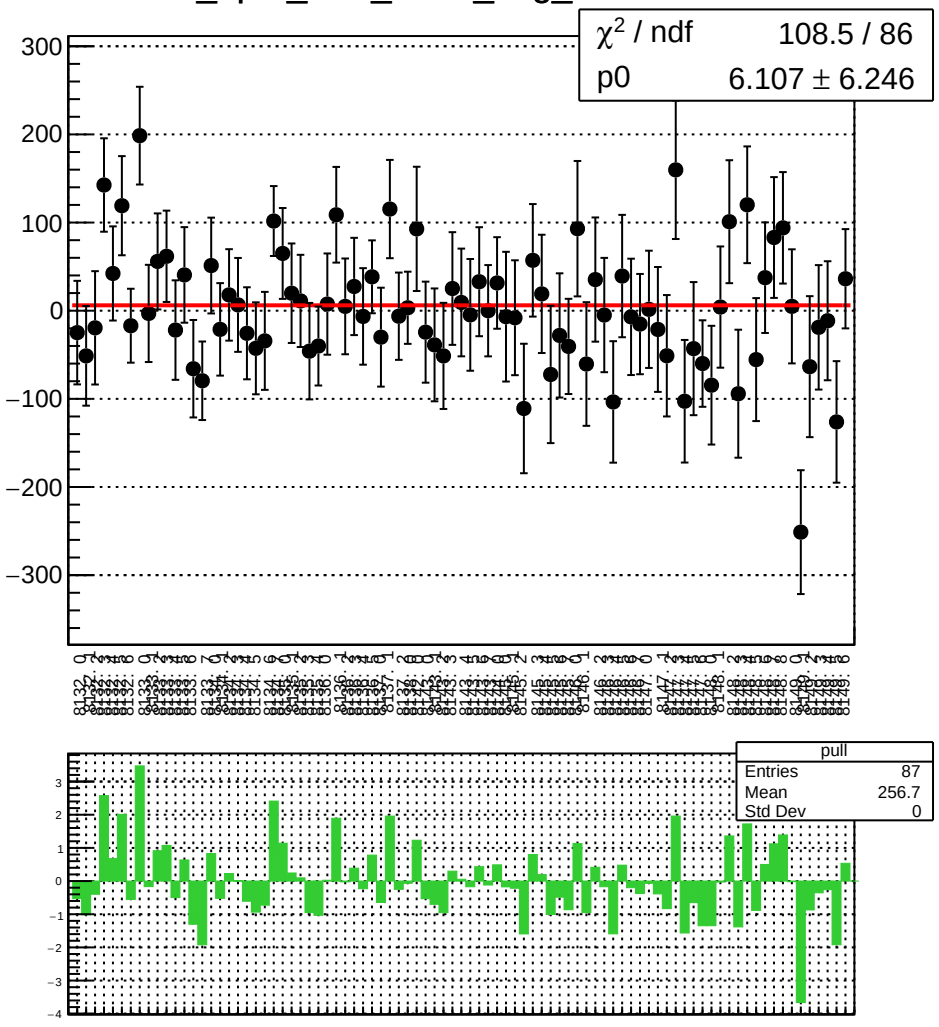

pull1D
Entries 87
Mean −0.009184
Std Dev 1.007

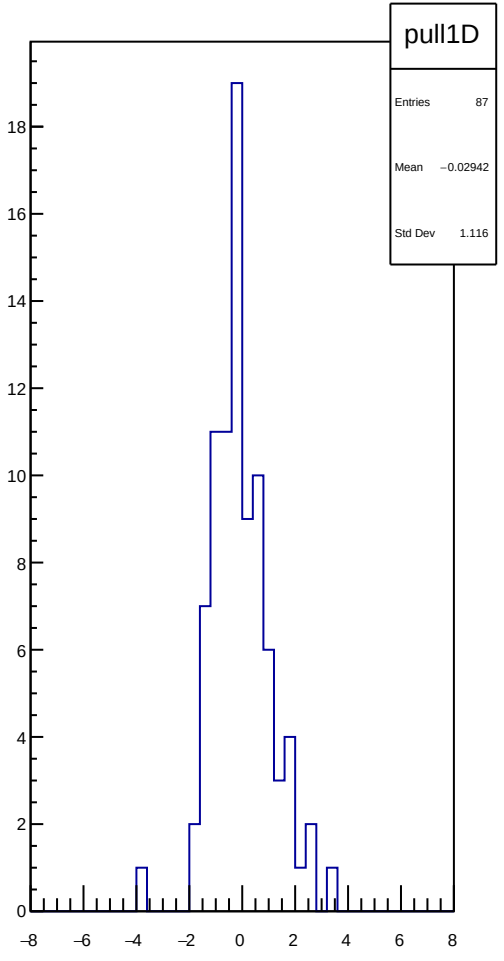

diff_bpm_4eX_4ecX_avg_rms vs run
χ² / ndf 1.876e+04 / 86
p0 1.884e+04 ± 14.45
34000
32000
30000
28000
26000
24000
22000
20000
18000
16000

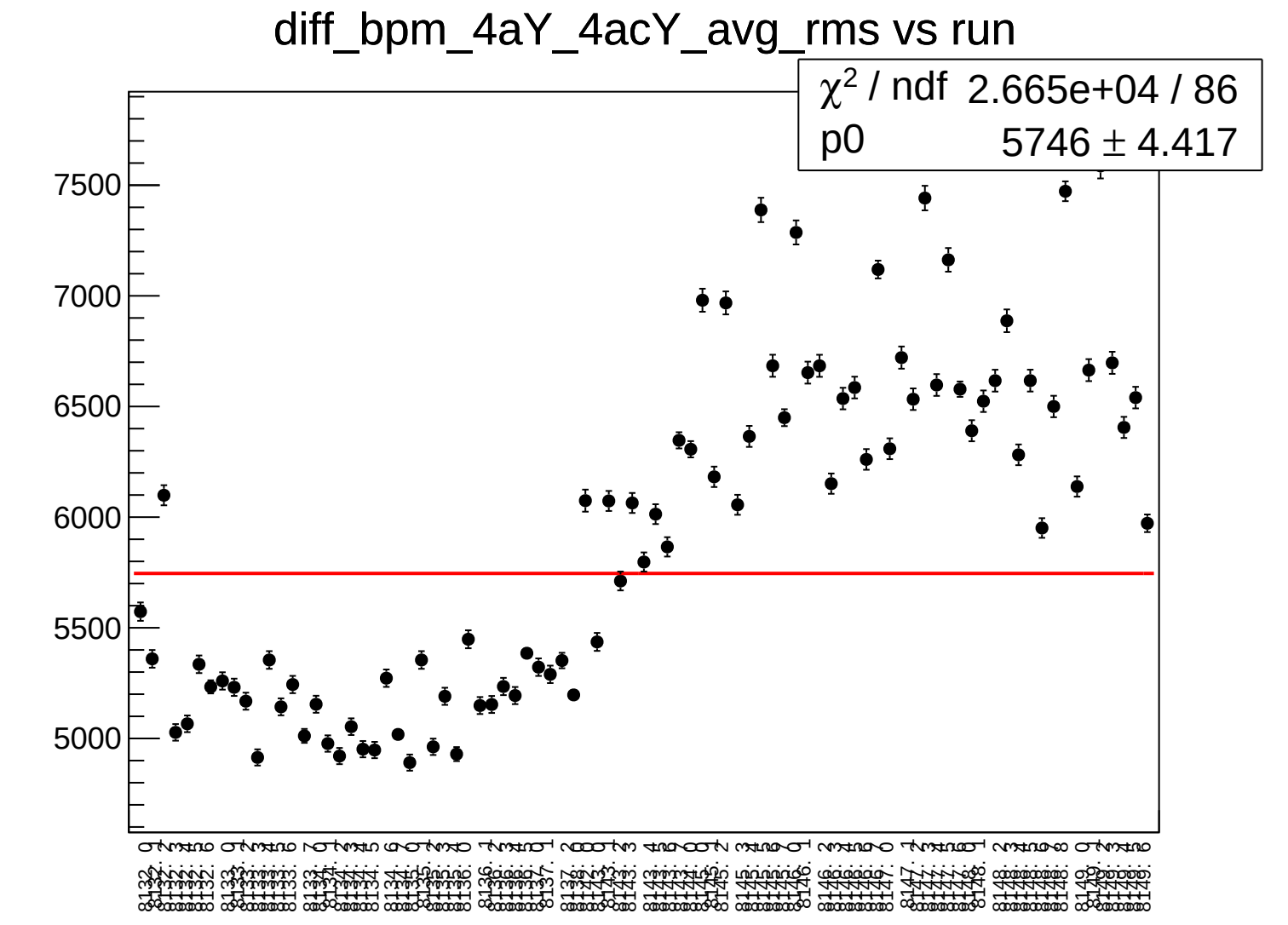

diff_bpm_4eX_4ecX_dd_mean vs run
χ² / ndf 83.16 / 86
p0 0.5315 ± 0.3577
pull
Entries 87
Mean −216.4
Std Dev 0

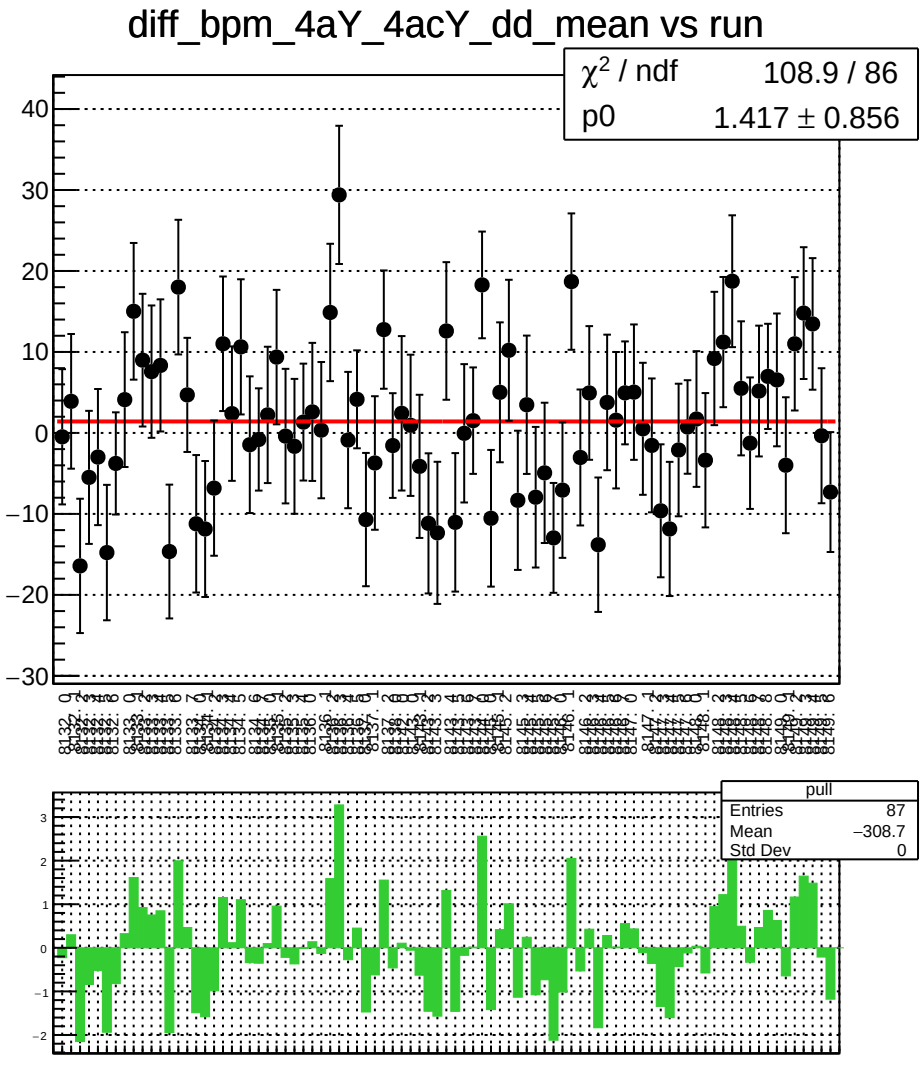

pull1D
Entries 87
Mean 0.003421
Std Dev 0.9777

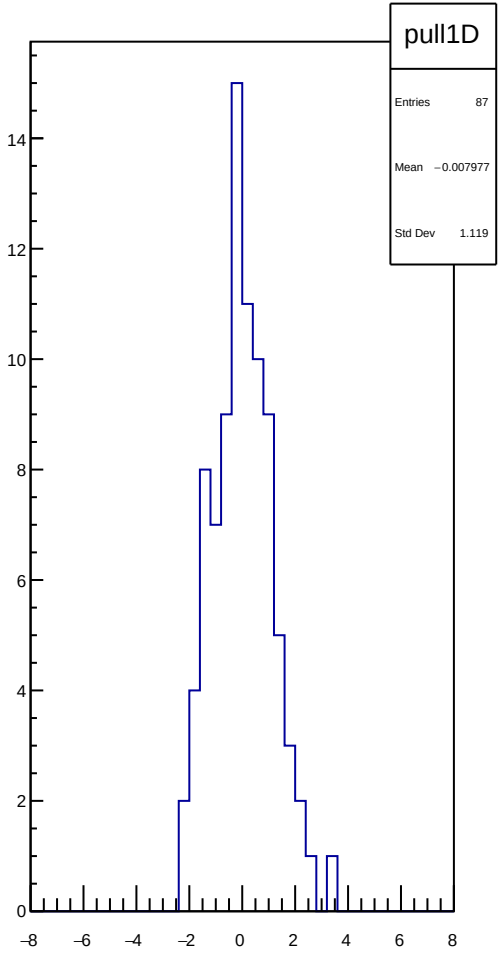

diff_bpm_4eX_4ecX_dd_rms vs run
χ² / ndf 1637 / 86
p0 331.5 ± 0.253
370
360
350
340
330
320
310

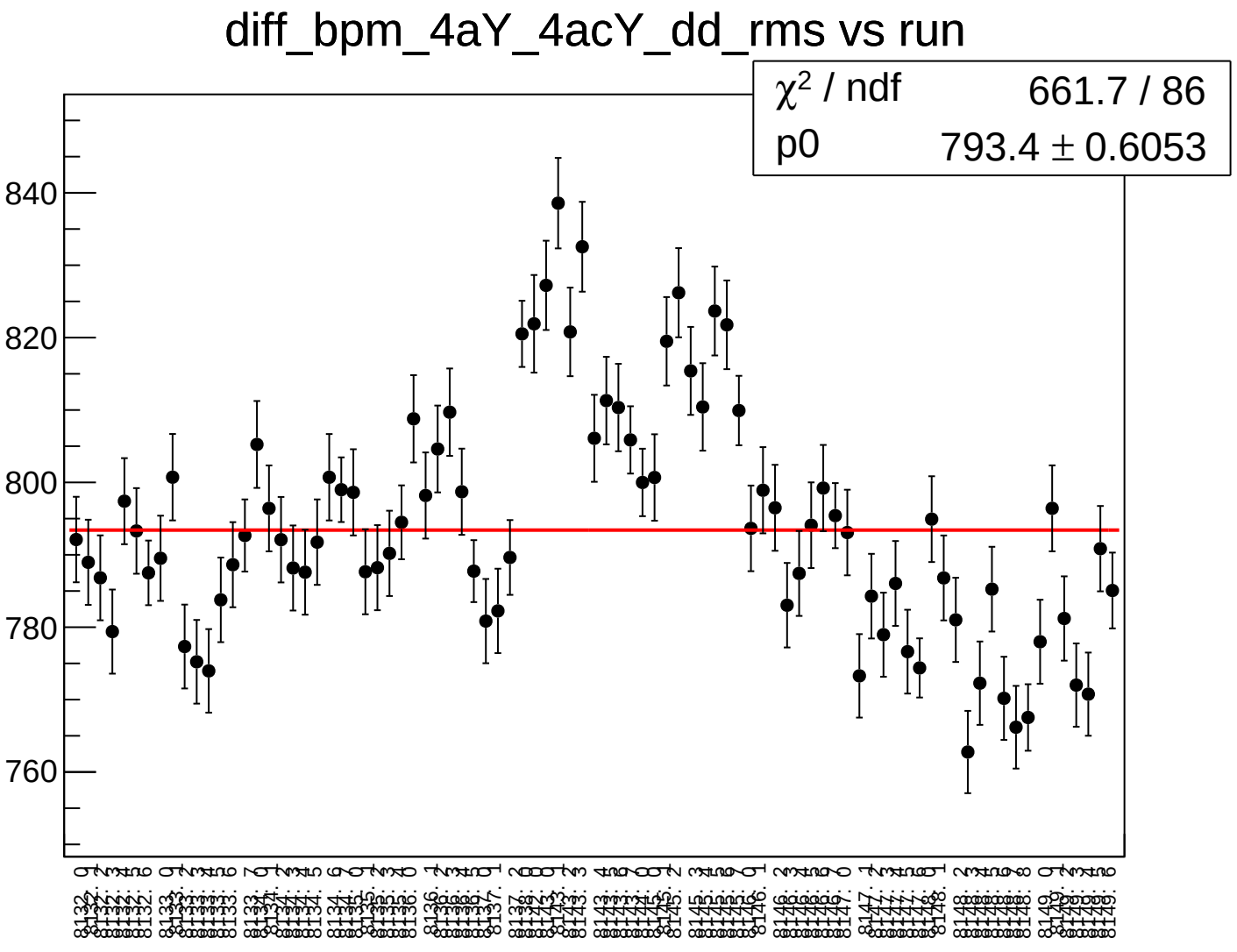

diff_bpm_4aY_4acY_avg_mean vs run
χ² / ndf 108.5 / 86
p0 6.107 ± 6.246
pull
Entries 87
Mean 256.7
Std Dev 0

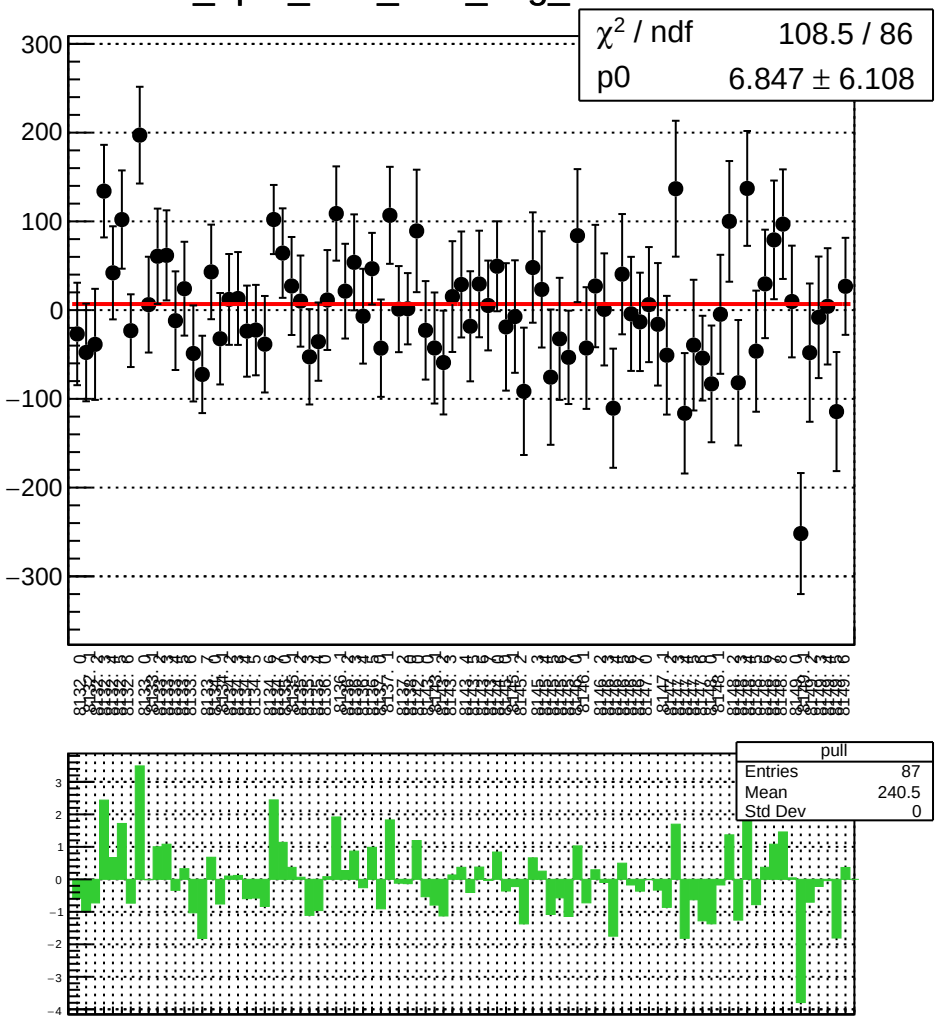

pull1D
Entries 87
Mean −0.02942
Std Dev 1.116

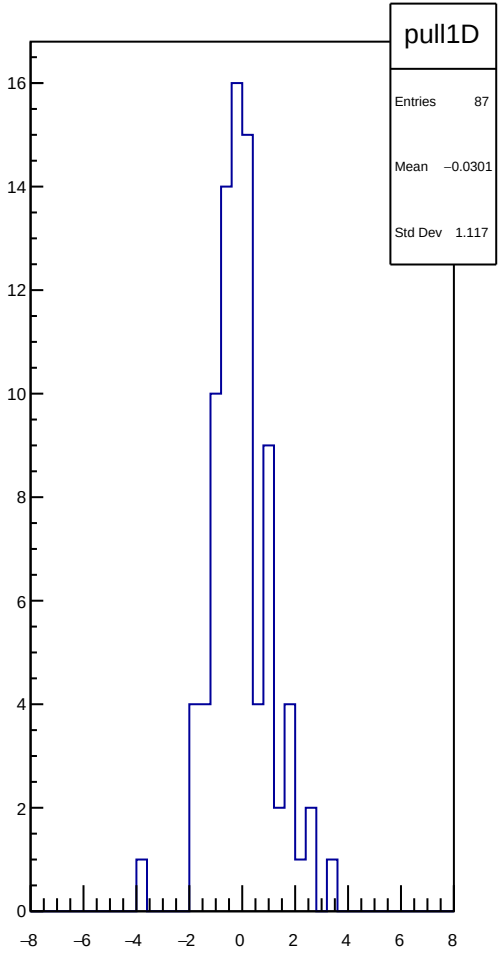

diff_bpm_4aY_4acY_avg_rms vs run
χ² / ndf 2.665e+04 / 86
p0 5746 ± 4.417
7500
7000
6500
6000
5500
5000

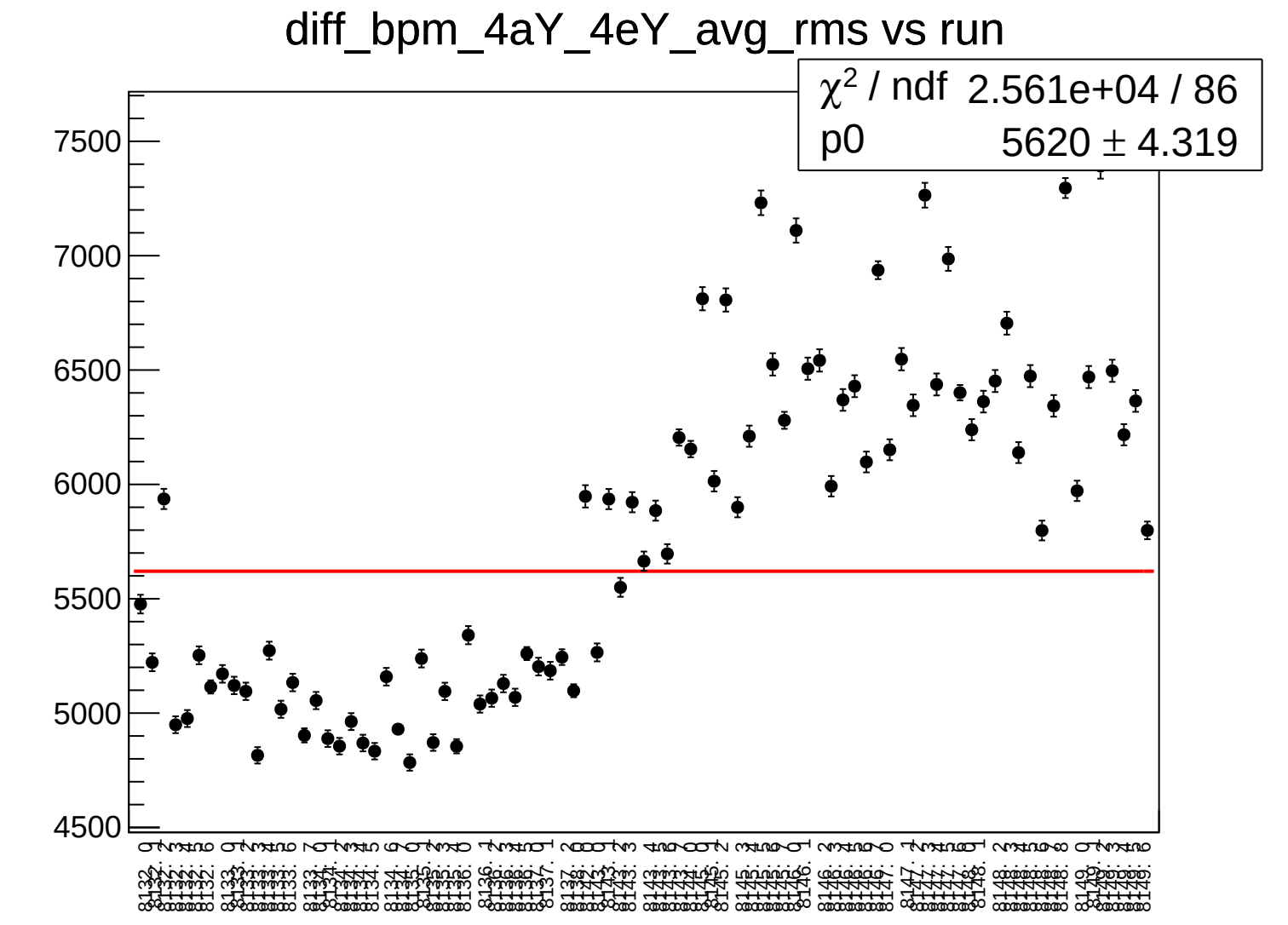

diff_bpm_4aY_4acY_dd_mean vs run
χ² / ndf 108.9 / 86
p0 1.417 ± 0.856
pull
Entries 87
Mean −308.7
Std Dev 0

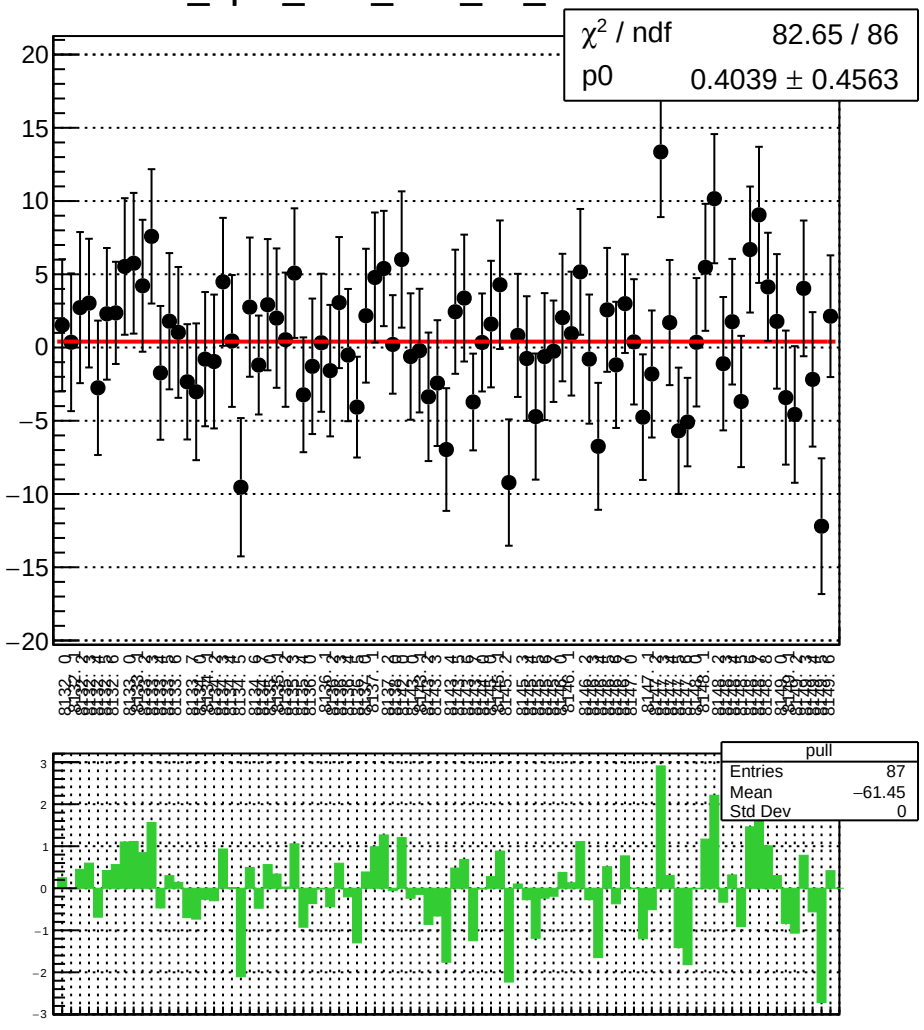

pull1D
Entries 87
Mean −0.007977
Std Dev 1.119

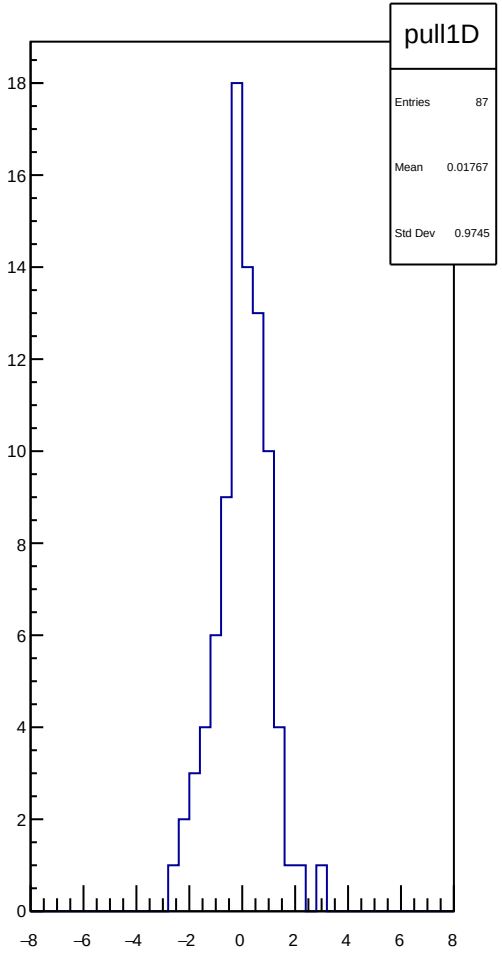

diff_bpm_4aY_4acY_dd_rms vs run
χ² / ndf 661.7 / 86
p0 793.4 ± 0.6053
840
820
800
780
760

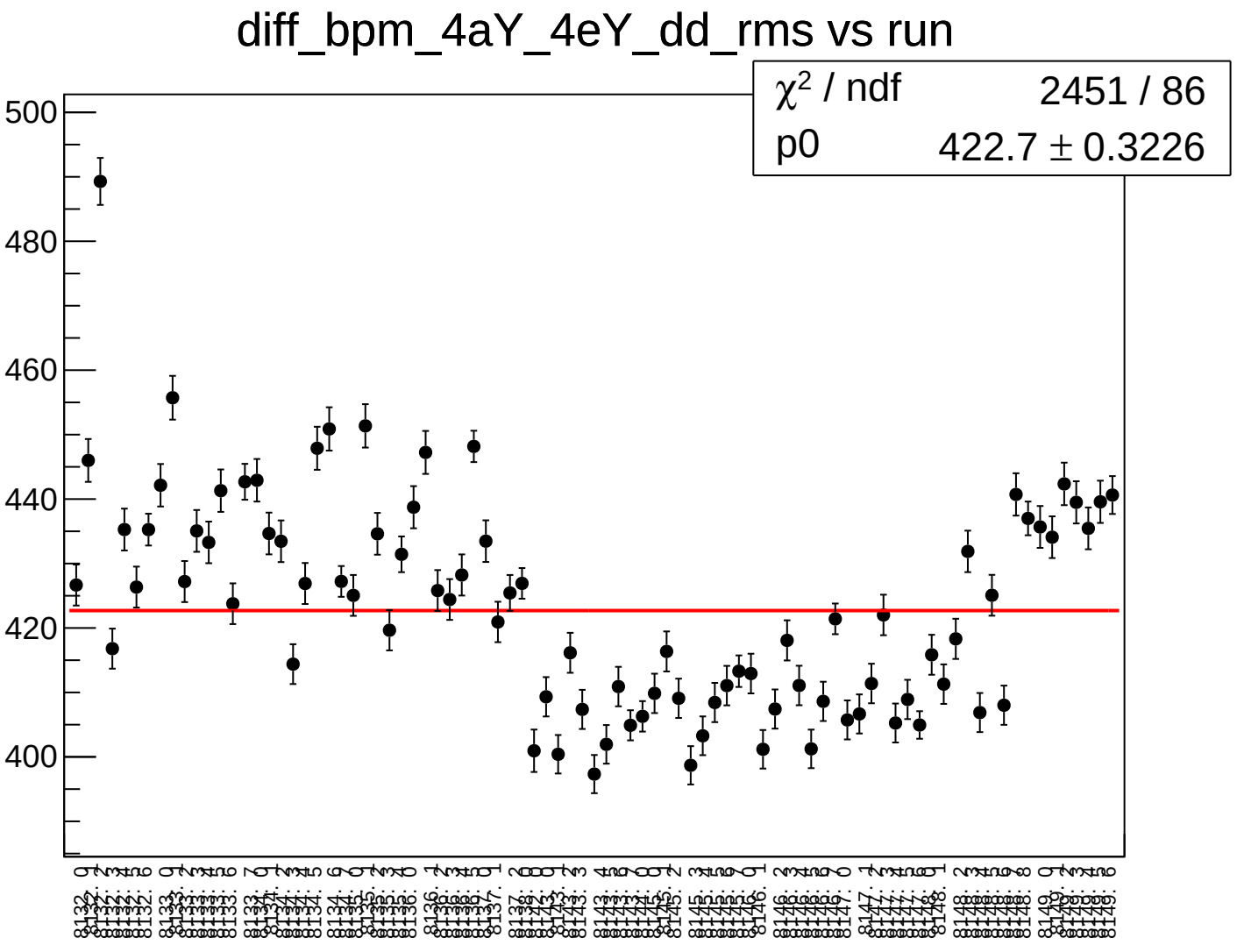

diff_bpm_4aY_4eY_avg_mean vs run
χ² / ndf 108.5 / 86
p0 6.847 ± 6.108
pull
Entries 87
Mean 240.5
Std Dev 0

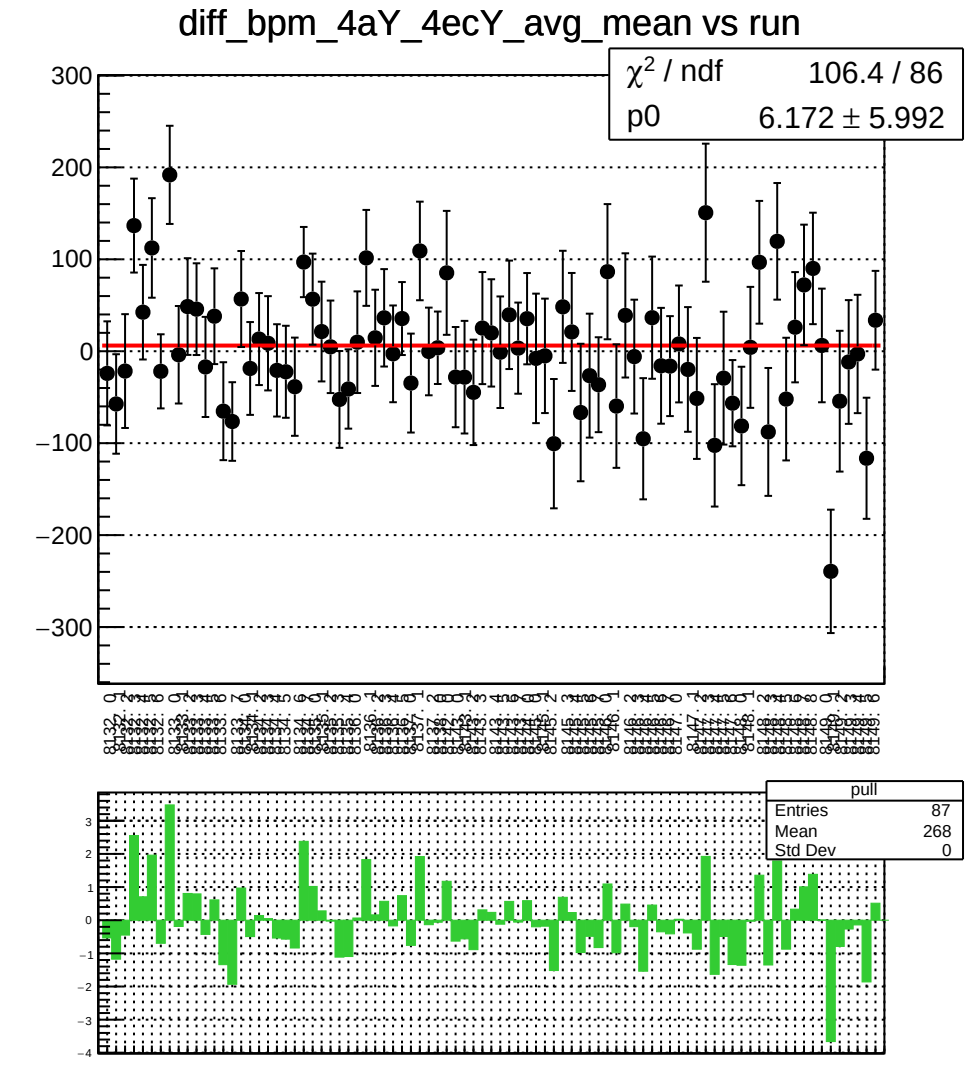

pull1D
Entries 87
Mean −0.0301
Std Dev 1.117

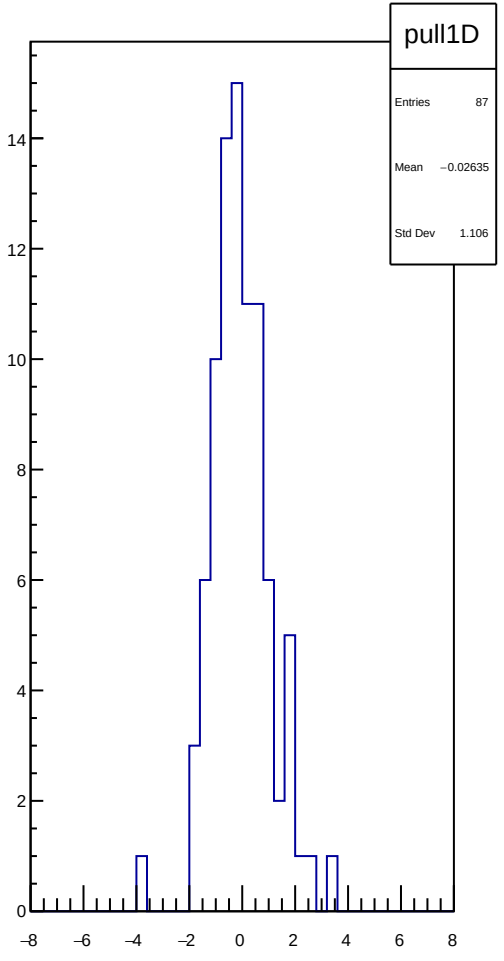

diff_bpm_4aY_4eY_avg_rms vs run
χ² / ndf 2.561e+04 / 86
p0 5620 ± 4.319
7500
7000
6500
6000
5500
5000
4500

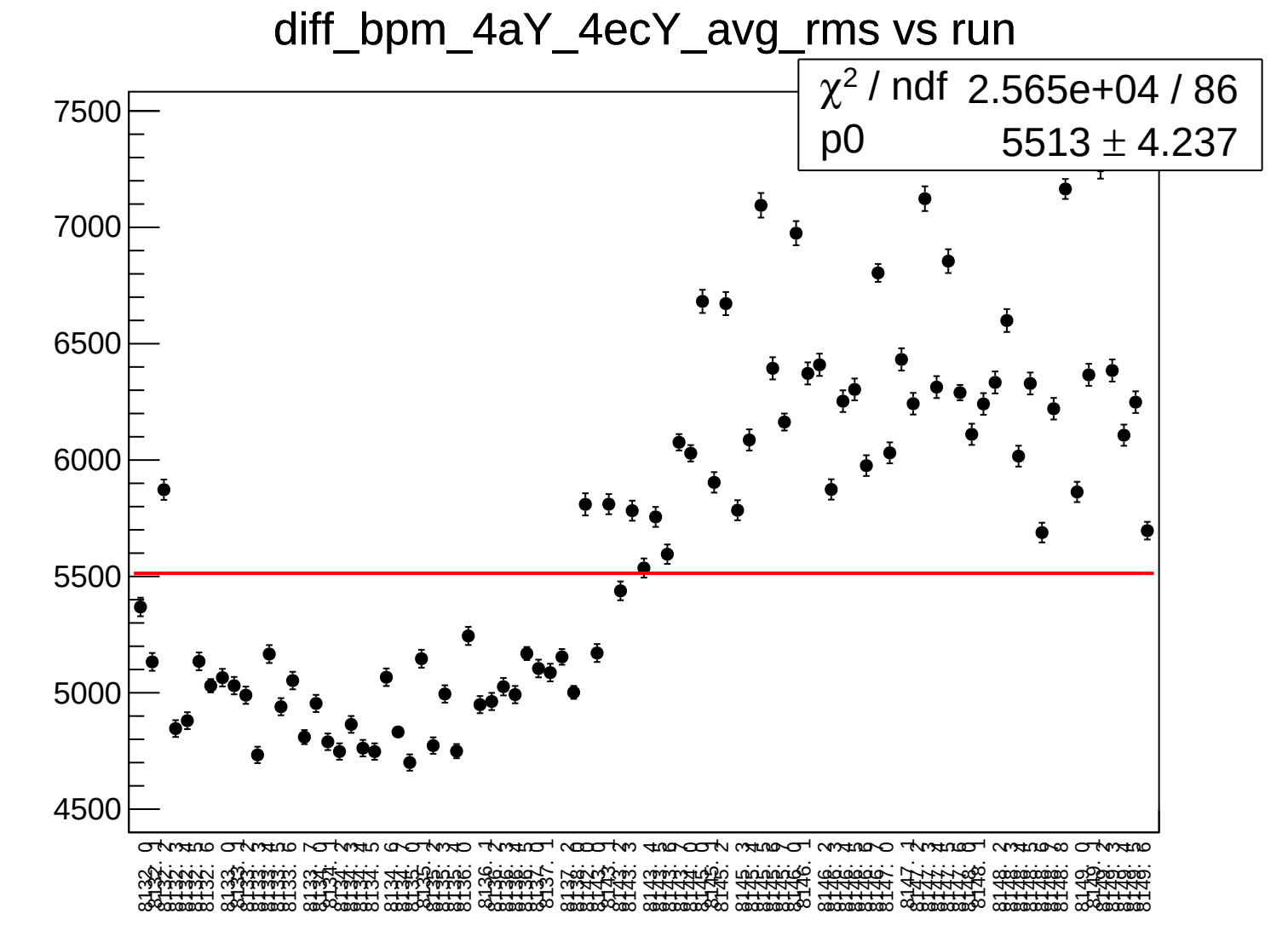

diff_bpm_4aY_4eY_dd_mean vs run
χ² / ndf 82.65 / 86
p0 0.4039 ± 0.4563
pull
Entries 87
Mean −61.45
Std Dev 0

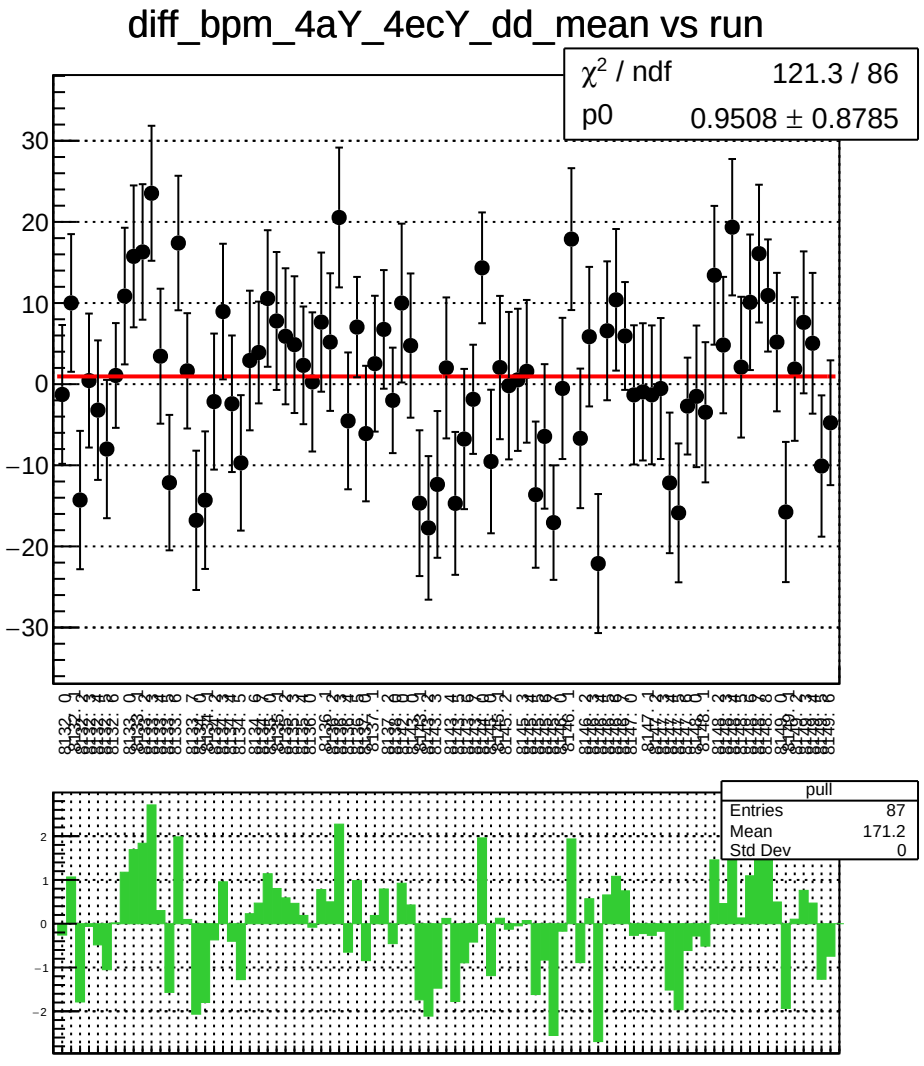

pull1D
Entries 87
Mean 0.01767
Std Dev 0.9745

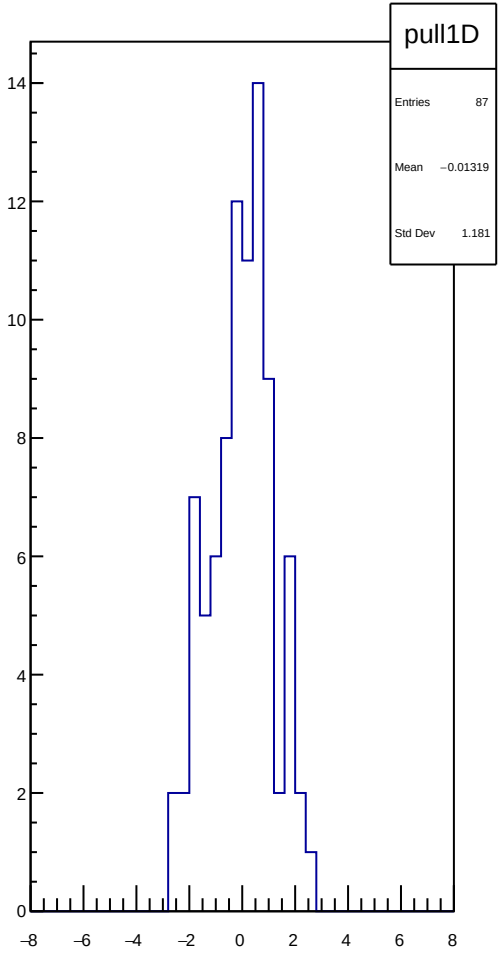

diff_bpm_4aY_4eY_dd_rms vs run
χ² / ndf 2451 / 86
p0 422.7 ± 0.3226
500
480
460
440
420
400

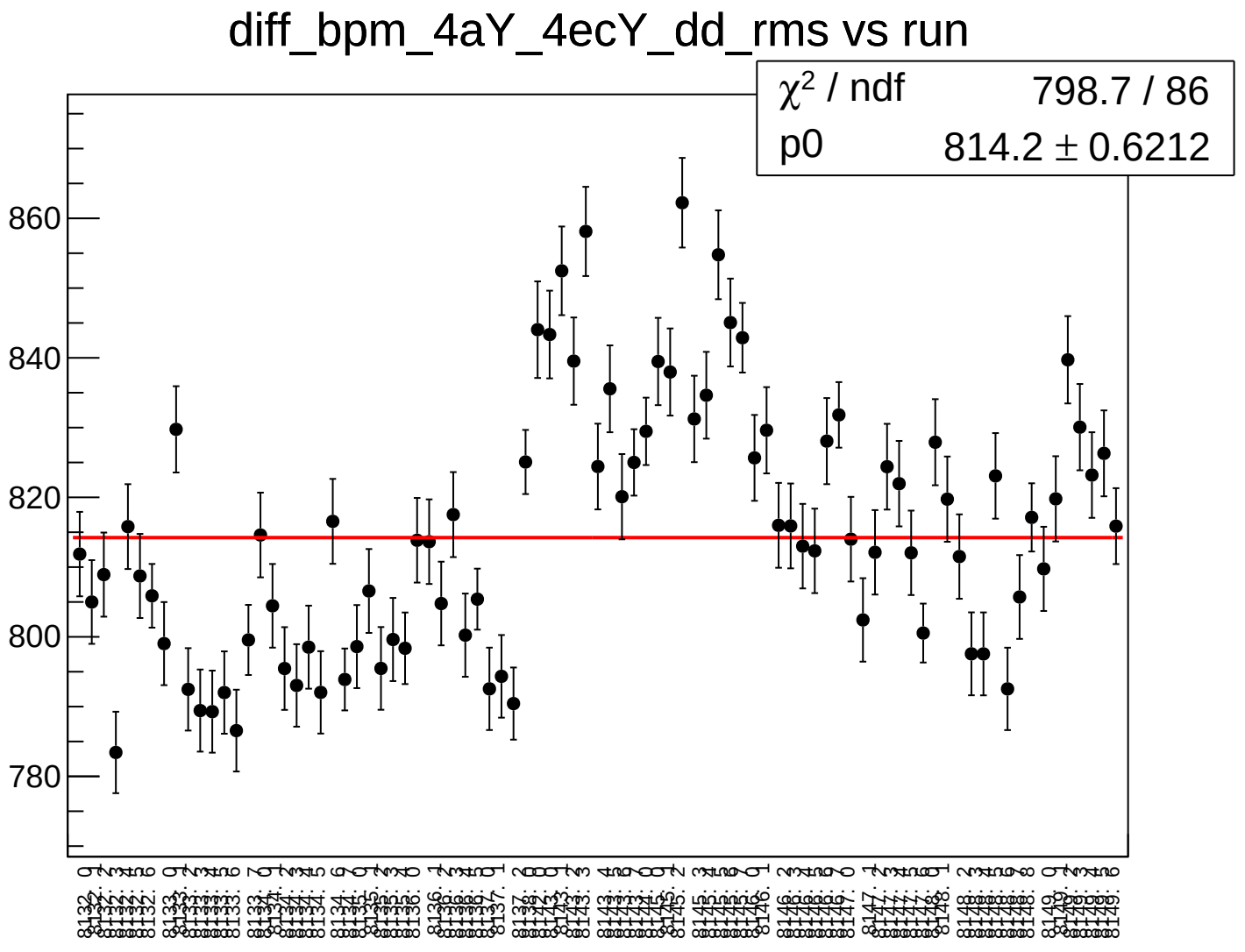

diff_bpm_4aY_4ecY_avg_mean vs run
χ² / ndf 106.4 / 86
p0 6.172 ± 5.992
pull
Entries 87
Mean 268
Std Dev 0

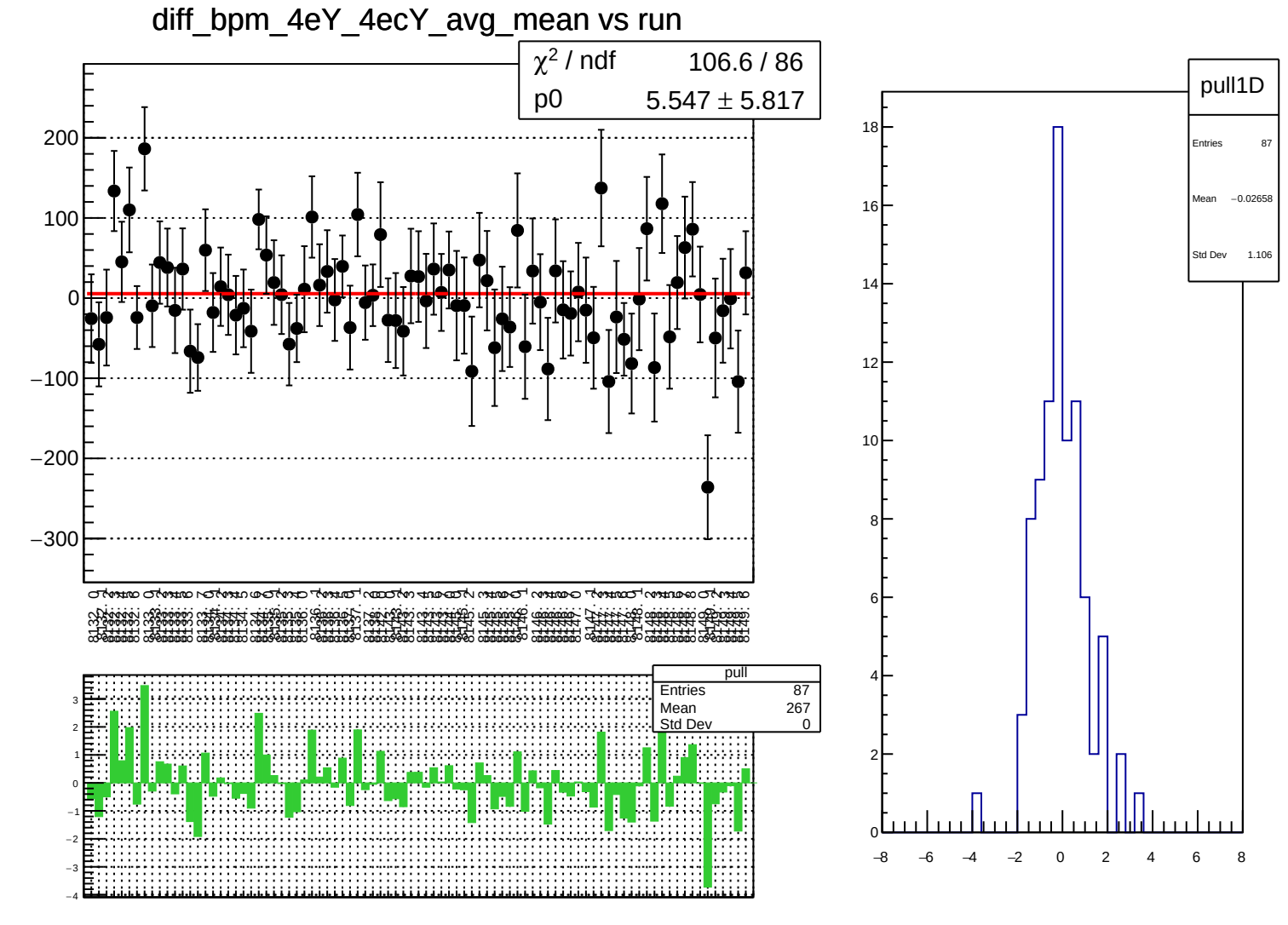

pull1D
Entries 87
Mean −0.02635
Std Dev 1.106

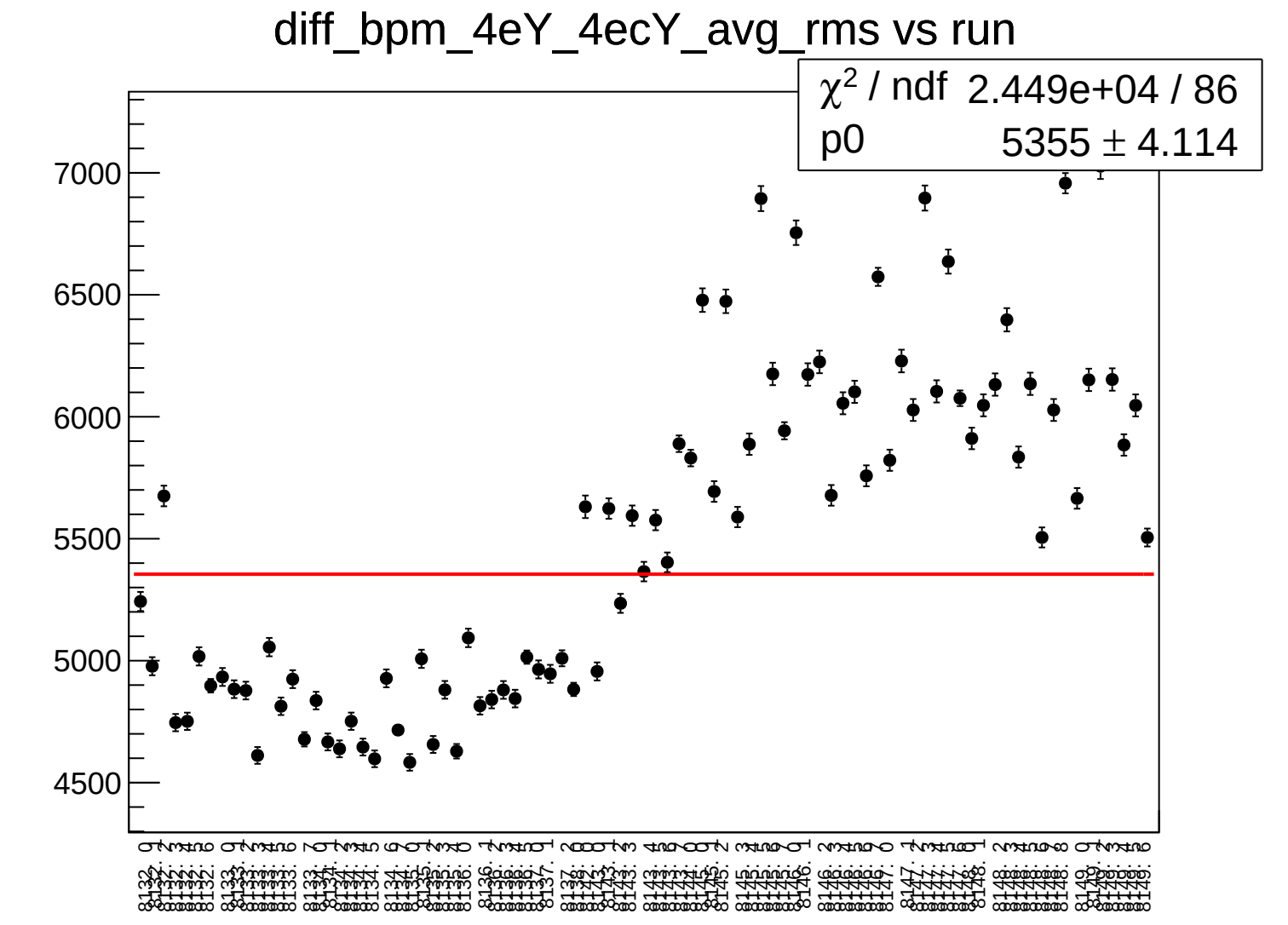

diff_bpm_4aY_4ecY_avg_rms vs run
χ² / ndf 2.565e+04 / 86
p0 5513 ± 4.237
7500
7000
6500
6000
5500
5000
4500

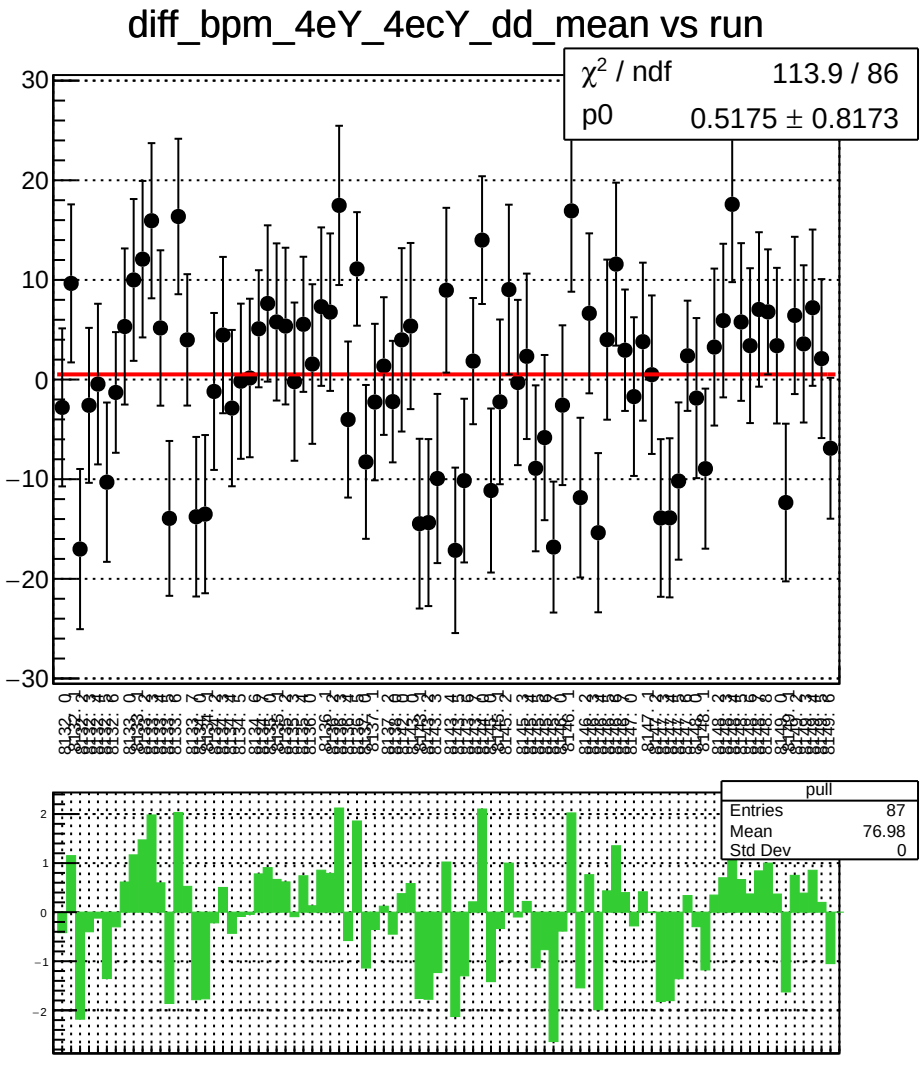

diff_bpm_4aY_4ecY_dd_mean vs run
χ² / ndf 121.3 / 86
p0 0.9508 ± 0.8785
pull
Entries 87
Mean 171.2
Std Dev 0

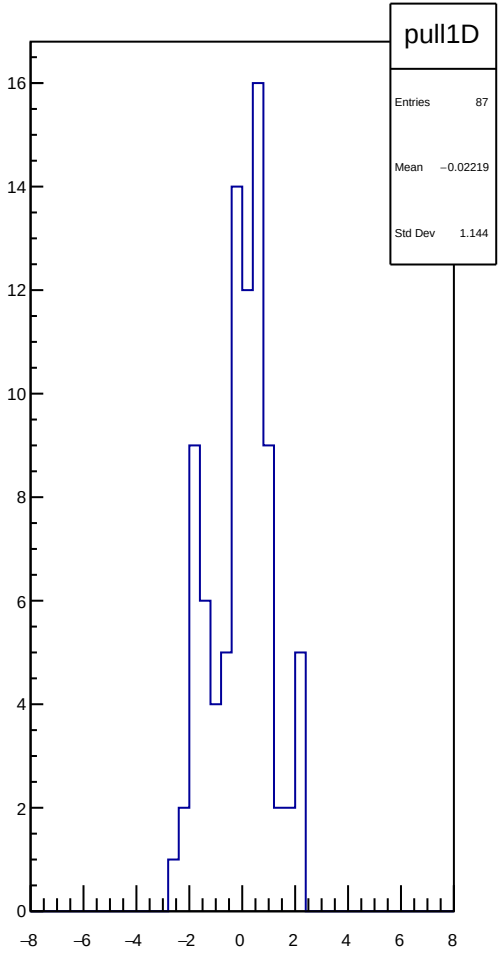

pull1D
Entries 87
Mean −0.01319
Std Dev 1.181

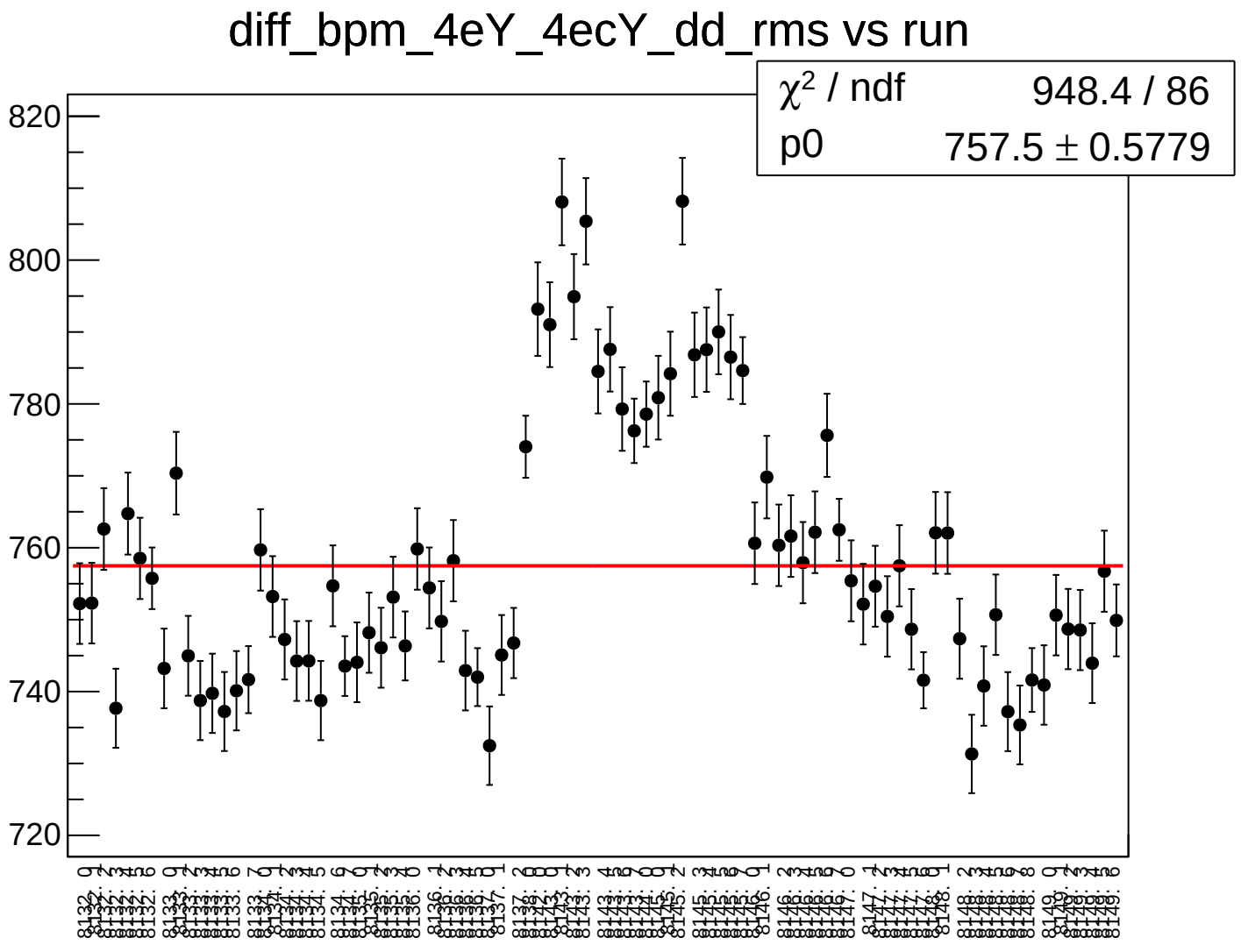

diff_bpm_4aY_4ecY_dd_rms vs run
χ² / ndf 798.7 / 86
p0 814.2 ± 0.6212
860
840
820
800
780

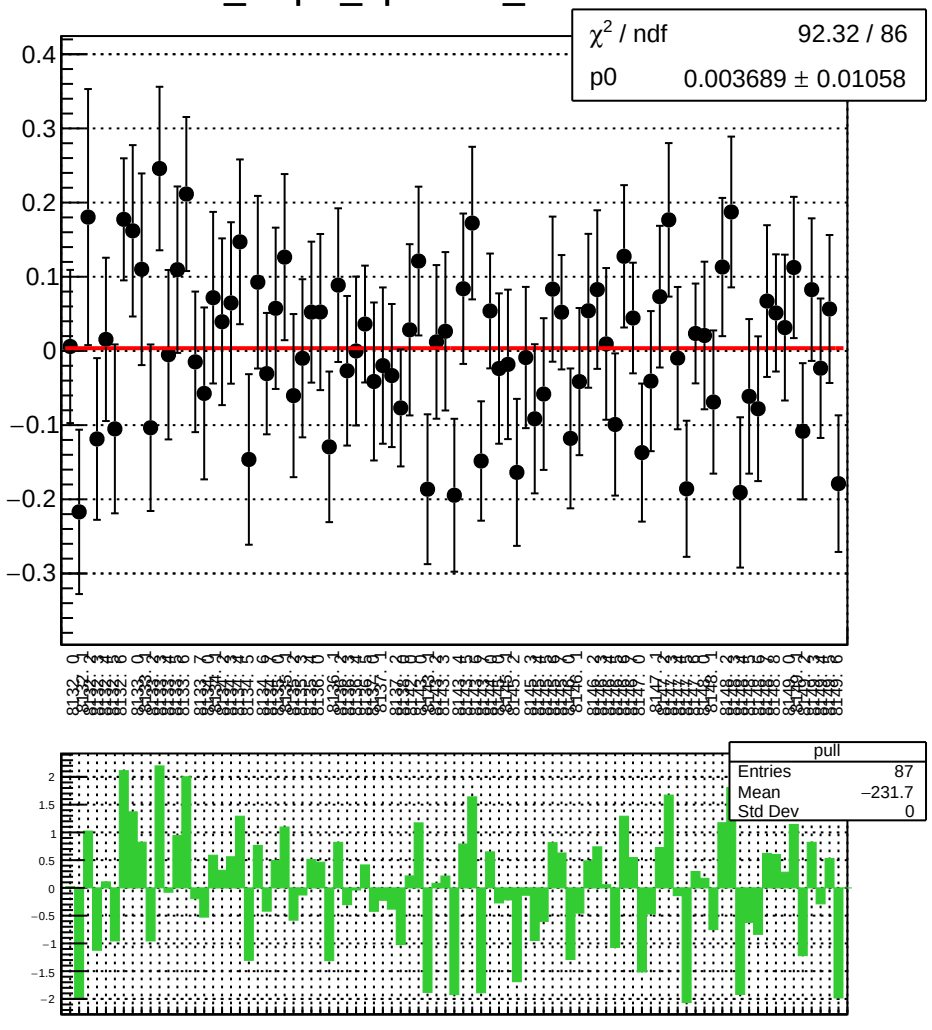

diff_bpm_4eY_4ecY_avg_mean vs run
χ² / ndf 106.6 / 86
p0 5.547 ± 5.817
200
100
0
−100
−200
−300
pull
Entries 87
Mean 267
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 87
Mean −0.02658
Std Dev 1.106
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

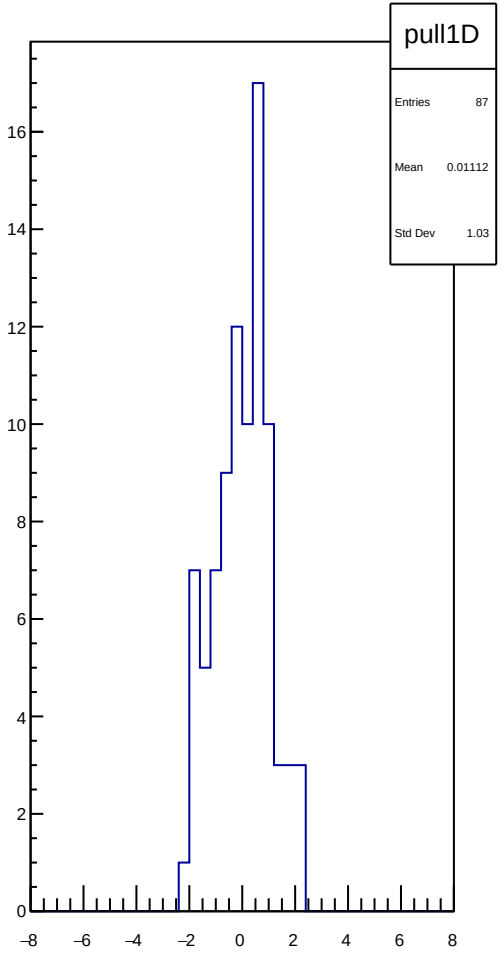

diff_bpm_4eY_4ecY_avg_rms vs run
χ² / ndf 2.449e+04 / 86
p0 5355 ± 4.114
7000
6500
6000
5500
5000
4500

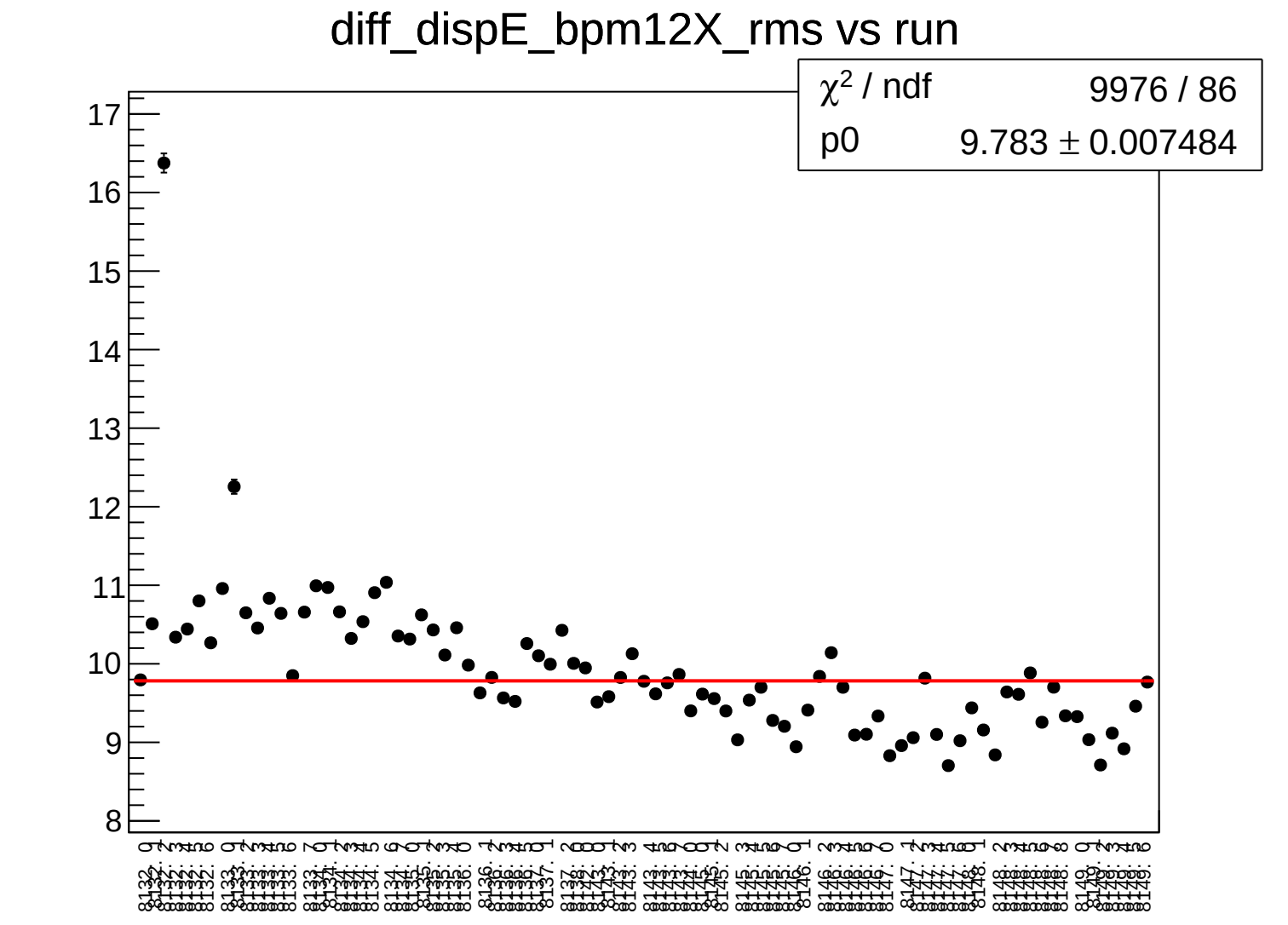

diff_bpm_4eY_4ecY_dd_mean vs run
χ² / ndf 113.9 / 86
p0 0.5175 ± 0.8173
pull
Entries 87
Mean 76.98
Std Dev 0

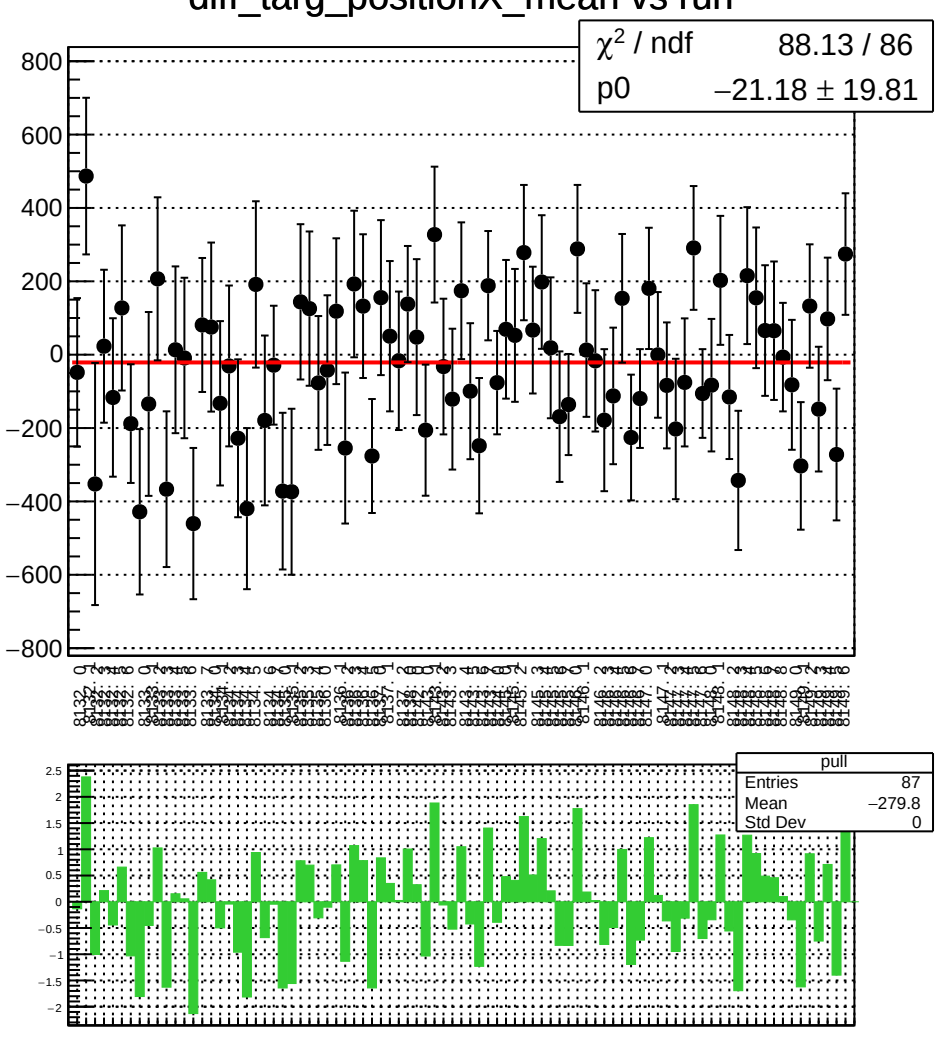

pull1D
Entries 87
Mean −0.02219
Std Dev 1.144

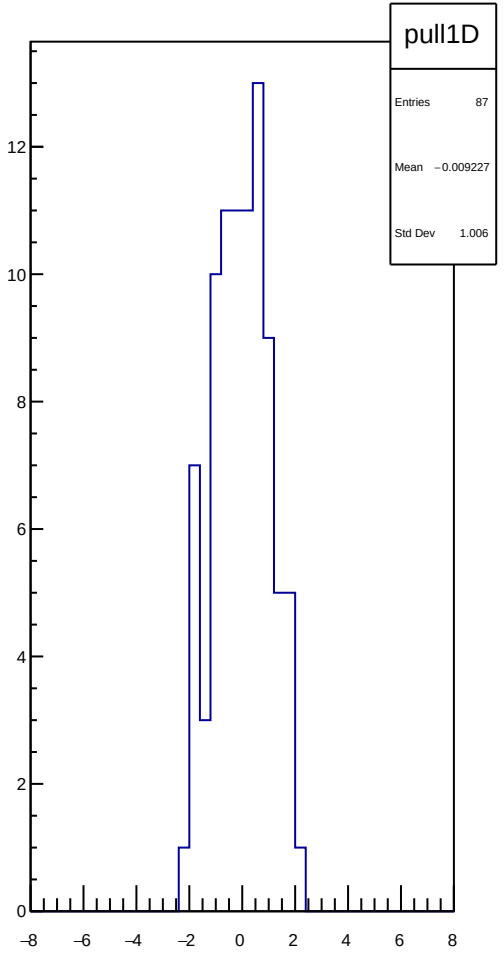

diff_bpm_4eY_4ecY_dd_rms vs run
χ² / ndf 948.4 / 86
p0 757.5 ± 0.5779
820
800
780
760
740
720

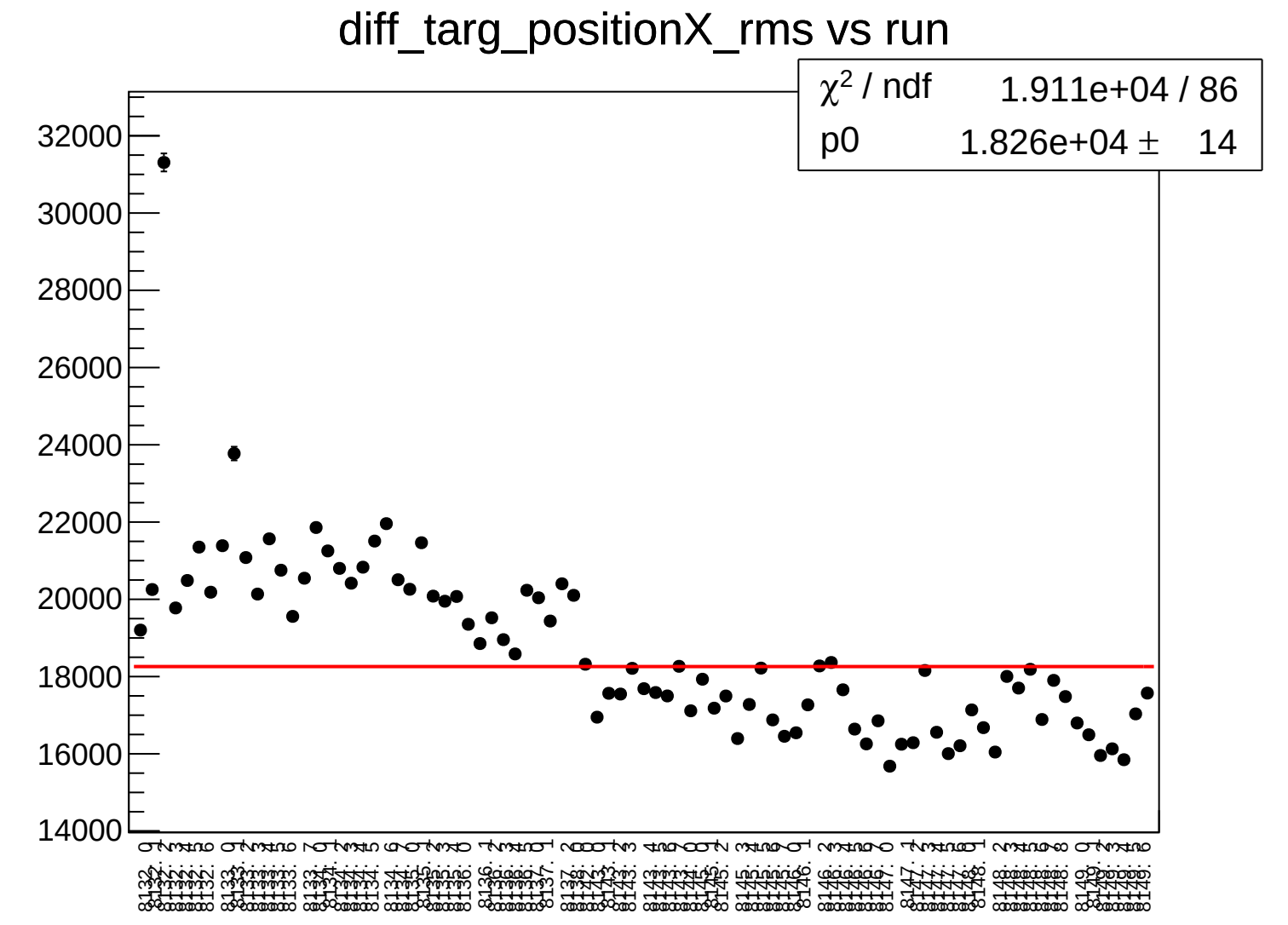

diff_dispE_bpm12X_mean vs run
χ² / ndf 92.32 / 86
p0 0.003689 ± 0.01058
pull
Entries 87
Mean −231.7
Std Dev 0

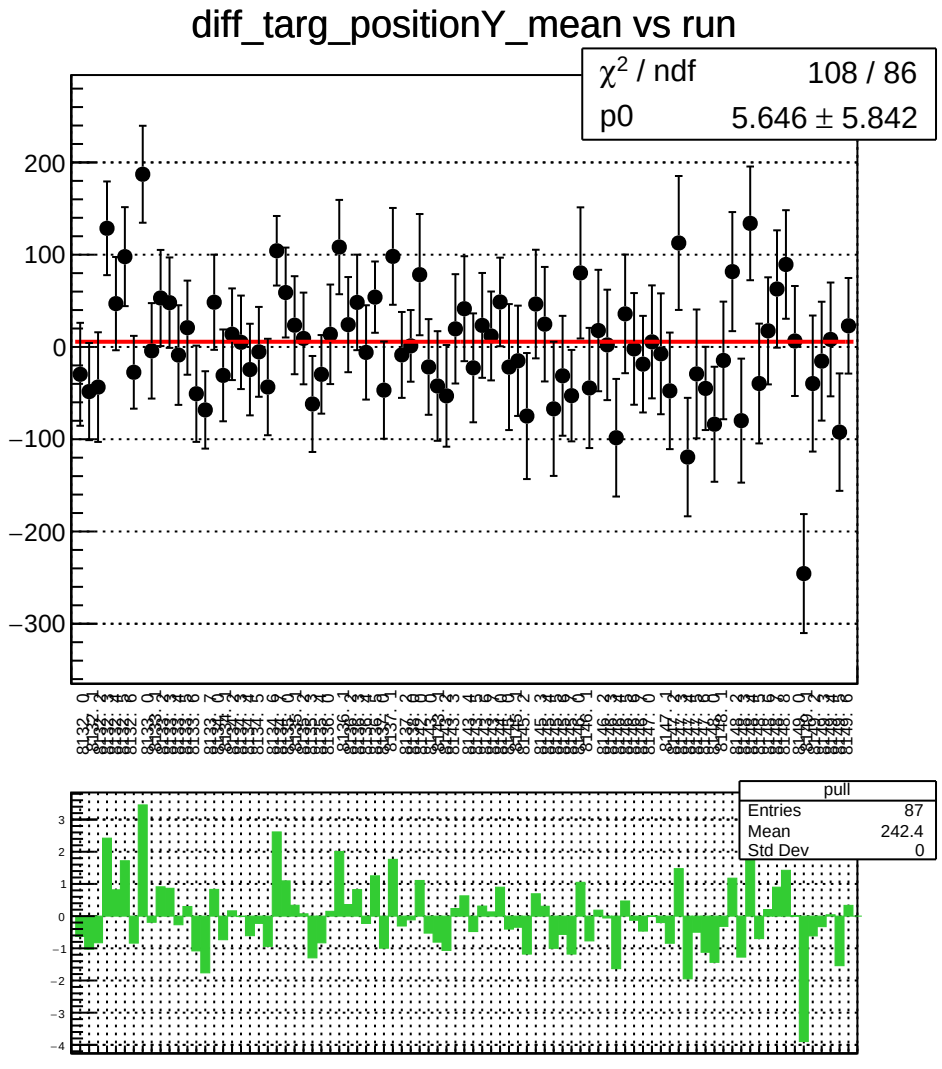

pull1D
Entries 87
Mean 0.01112
Std Dev 1.03

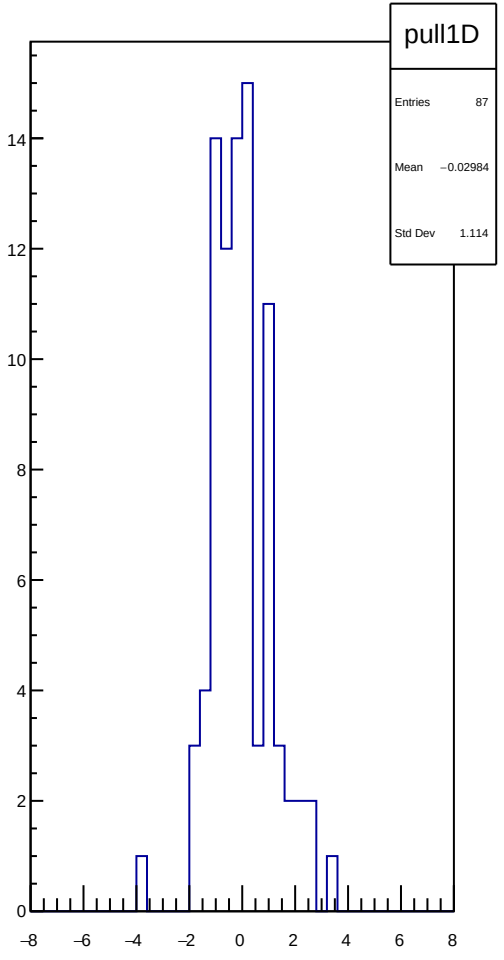

diff_dispE_bpm12X_rms vs run
χ^2 / ndf 9976 / 86
p0 9.783 ± 0.007484
17
16
15
14
13
12
11
10
9
8

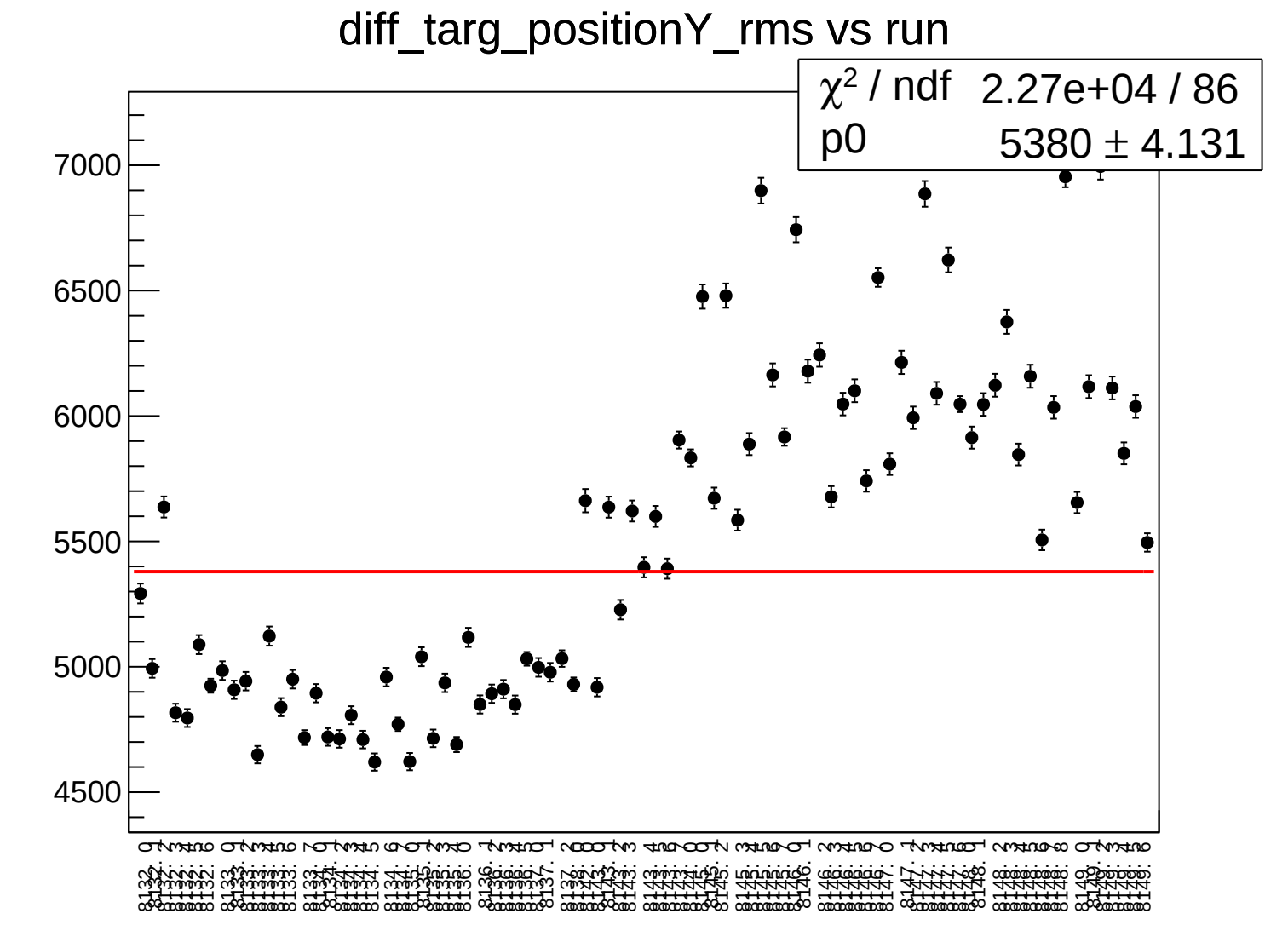

diff_targ_positionX_mean vs run
χ² / ndf 88.13 / 86
p0 −21.18 ± 19.81
pull
Entries 87
Mean −279.8
Std Dev 0

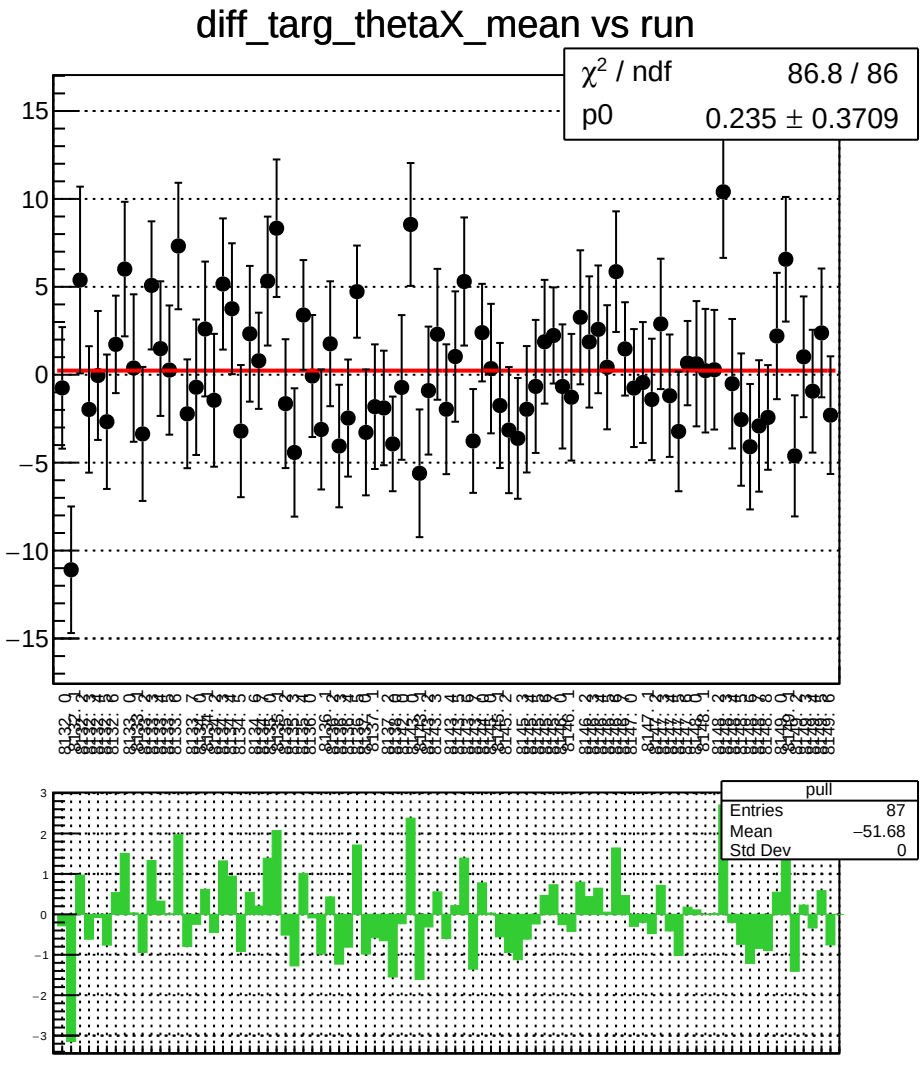

pull1D
Entries 87
Mean −0.009227
Std Dev 1.006

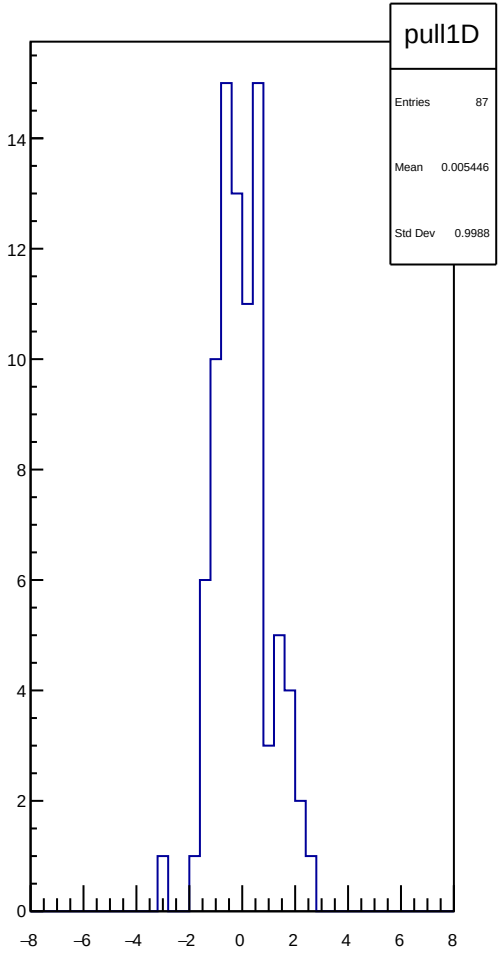

diff_targ_positionX_rms vs run
χ² / ndf 1.911e+04 / 86
p0 1.826e+04 ± 14
32000
30000
28000
26000
24000
22000
20000
18000
16000
14000

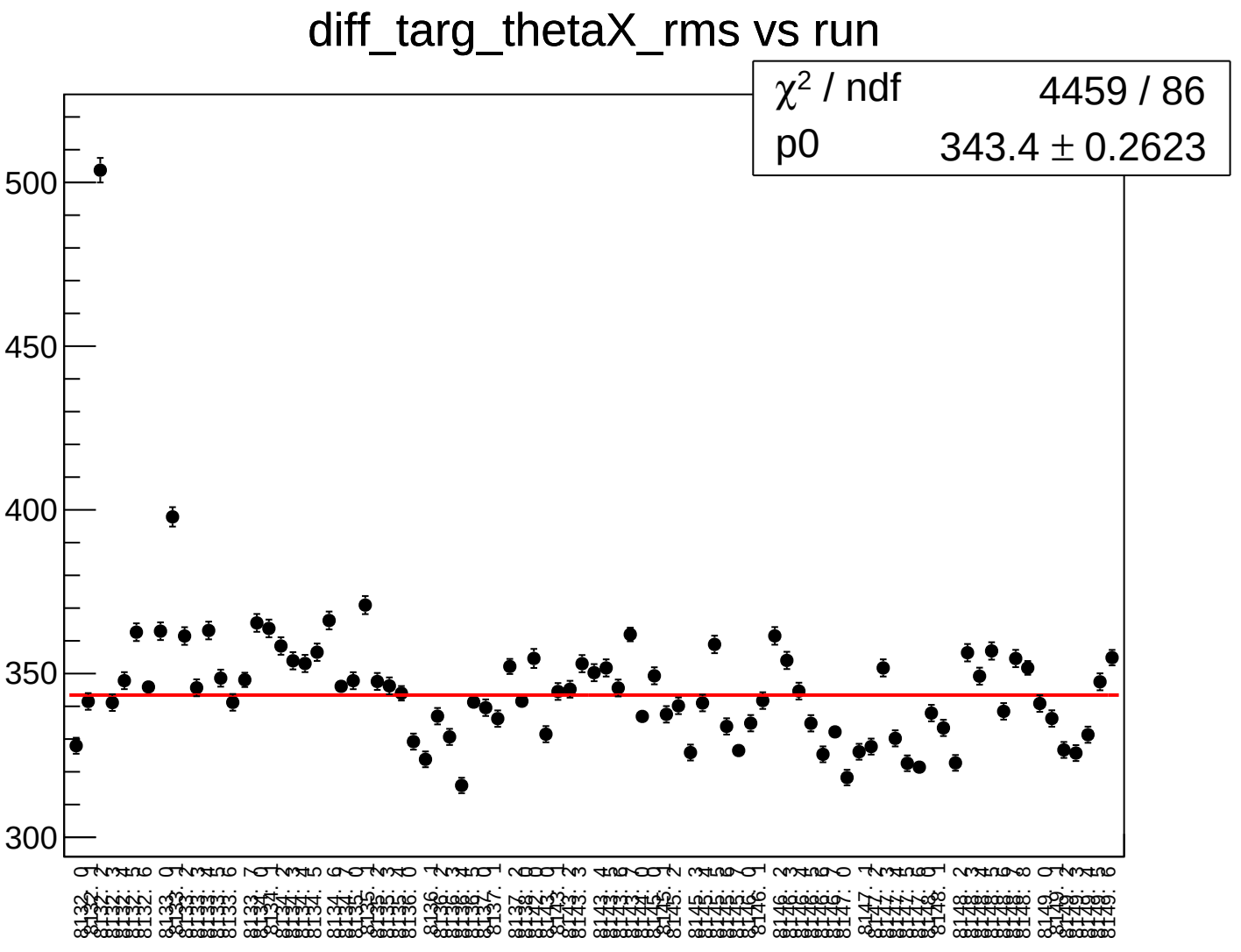

diff_targ_positionY_mean vs run
χ² / ndf 108 / 86
p0 5.646 ± 5.842
200
100
0
−100
−200
−300
pull
Entries 87
Mean 242.4
Std Dev 0
3
2
1
0
−1
−2
−3
−4

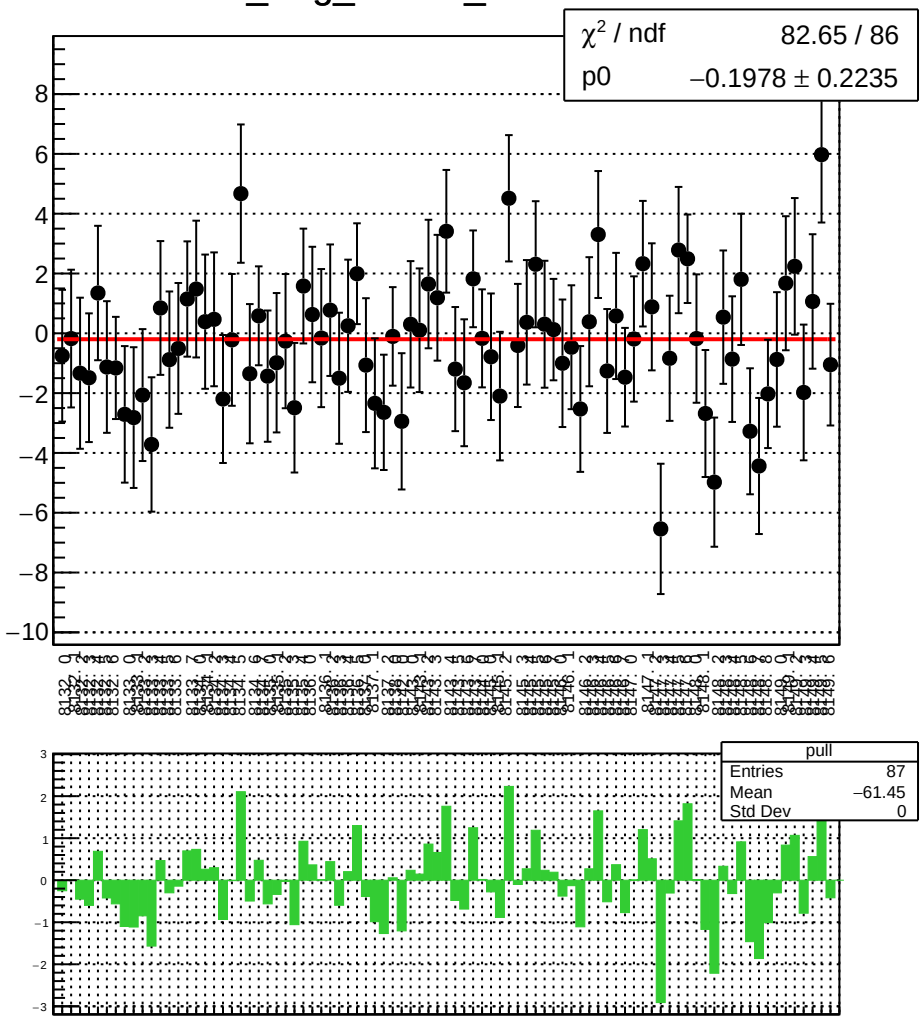

pull1D
Entries 87
Mean −0.02984
Std Dev 1.114
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

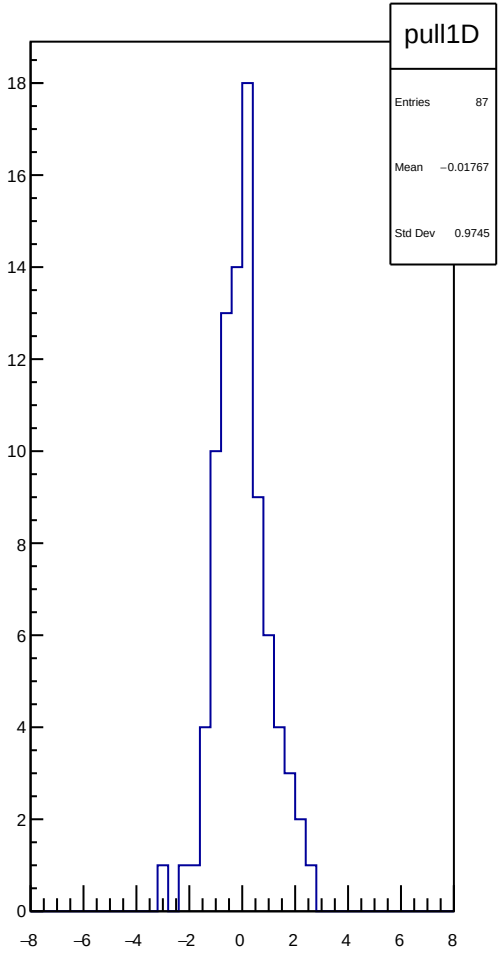

diff_targ_positionY_rms vs run
χ² / ndf 2.27e+04 / 86
p0 5380 ± 4.131
7000
6500
6000
5500
5000
4500

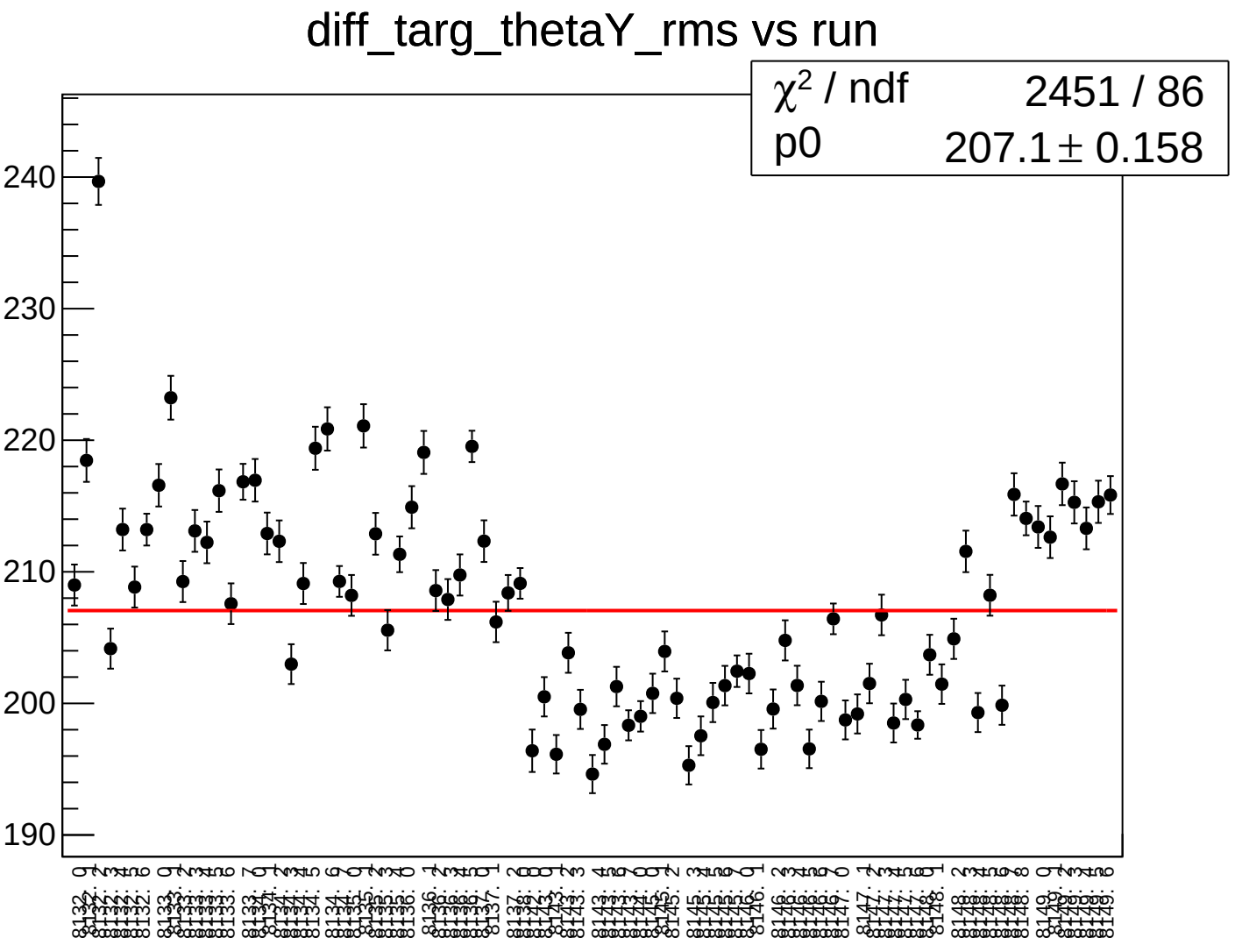

diff_targ_thetaX_mean vs run
χ² / ndf 86.8 / 86
p0 0.235 ± 0.3709
pull
Entries 87
Mean −51.68
Std Dev 0

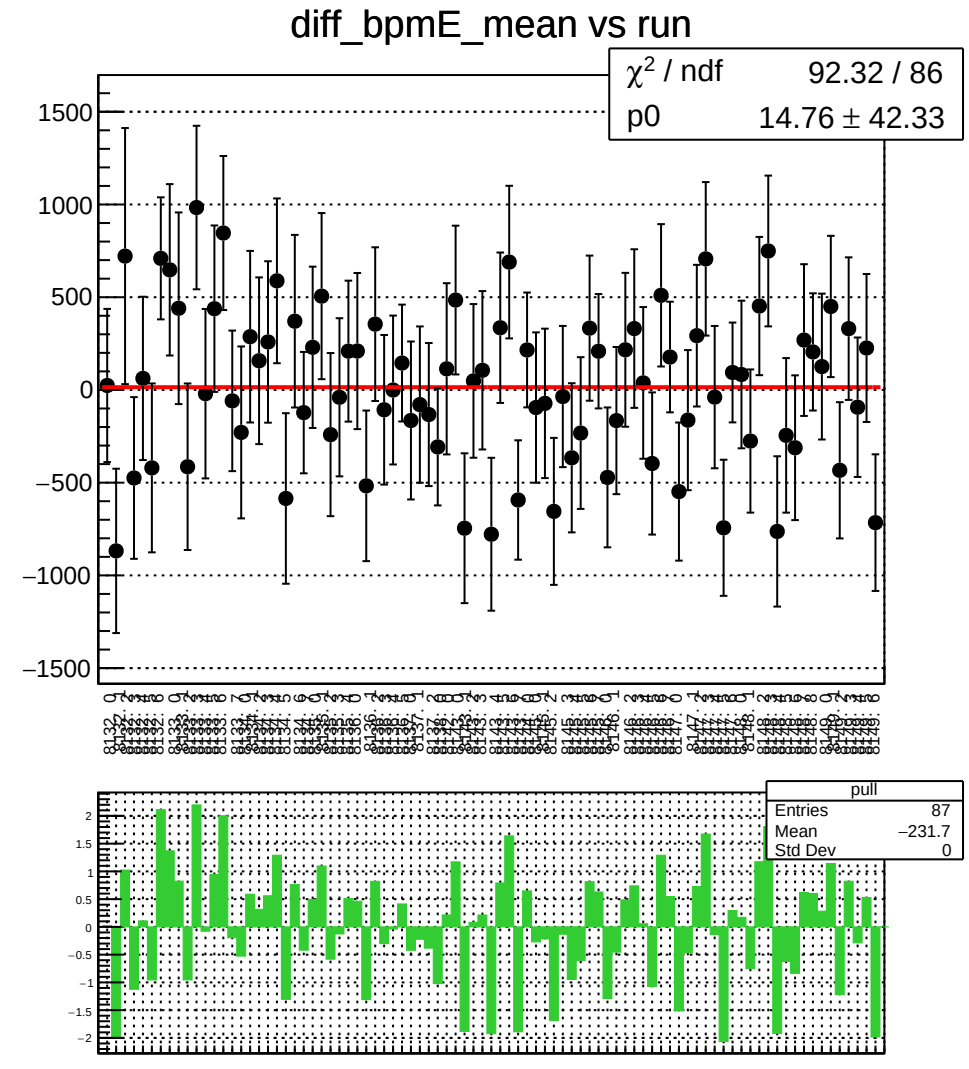

pull1D
Entries 87
Mean 0.005446
Std Dev 0.9988

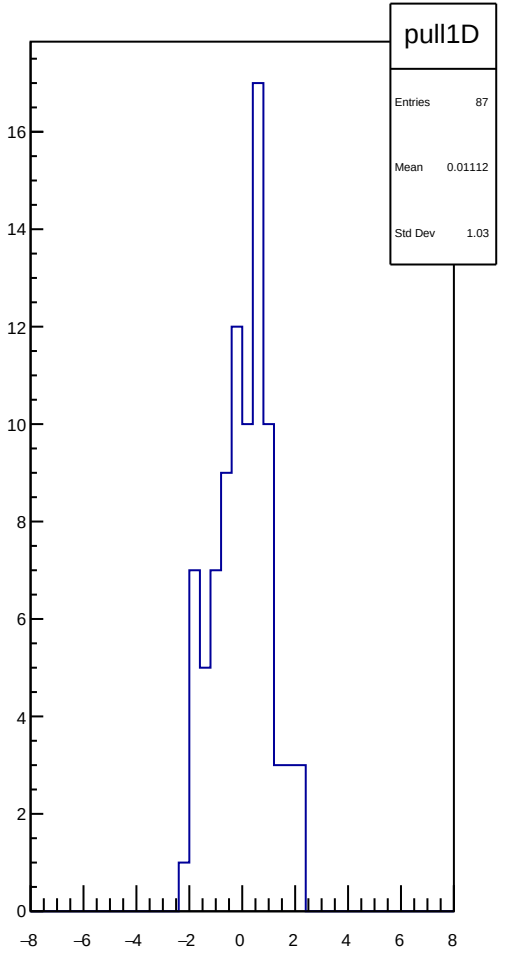

diff_targ_thetaX_rms vs run
χ² / ndf 4459 / 86
p0 343.4 ± 0.2623
500
450
400
350
300

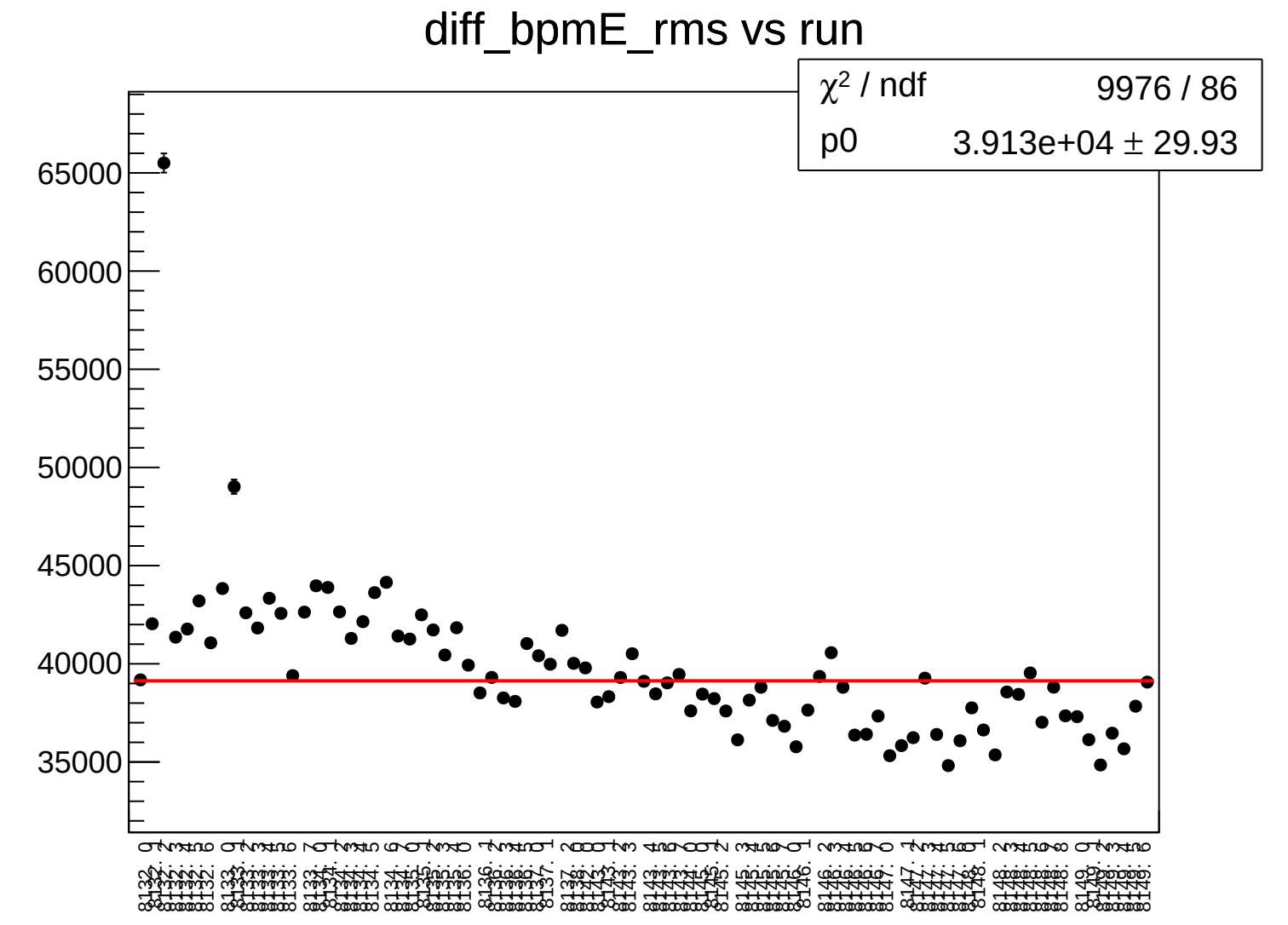

diff_targ_thetaY_mean vs run
χ² / ndf 82.65 / 86
p0 −0.1978 ± 0.2235
pull
Entries 87
Mean −61.45
Std Dev 0

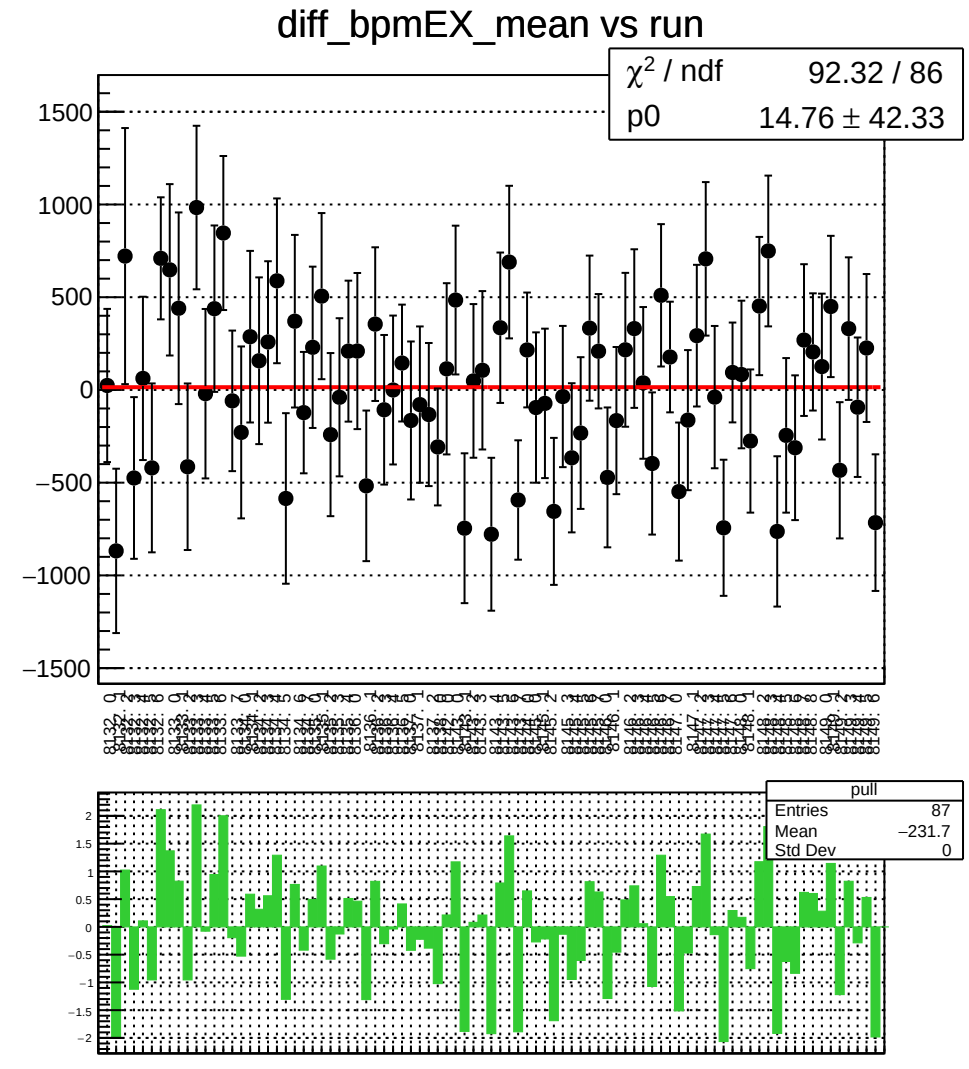

pull1D
Entries 87
Mean −0.01767
Std Dev 0.9745

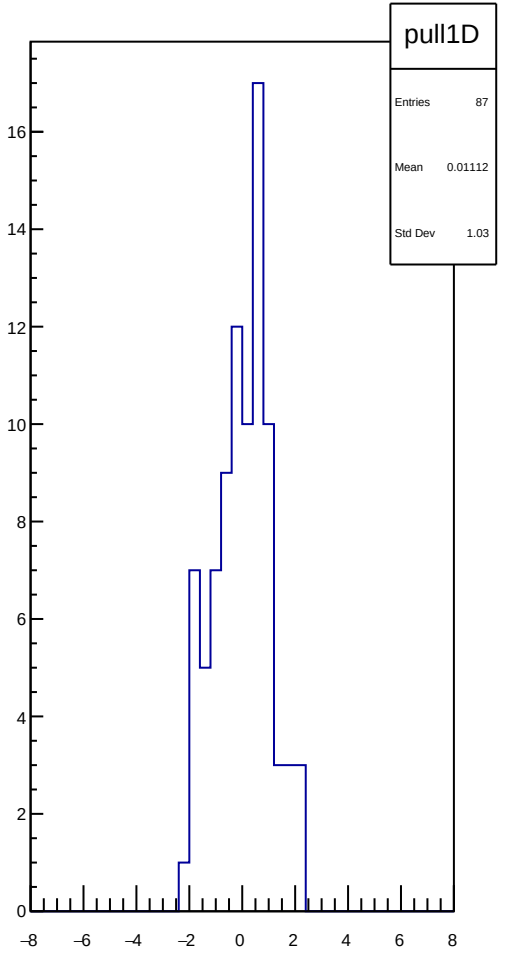

diff_targ_thetaY_rms vs run
χ² / ndf 2451 / 86
p0 207.1 ± 0.158
240
230
220
210
200
190

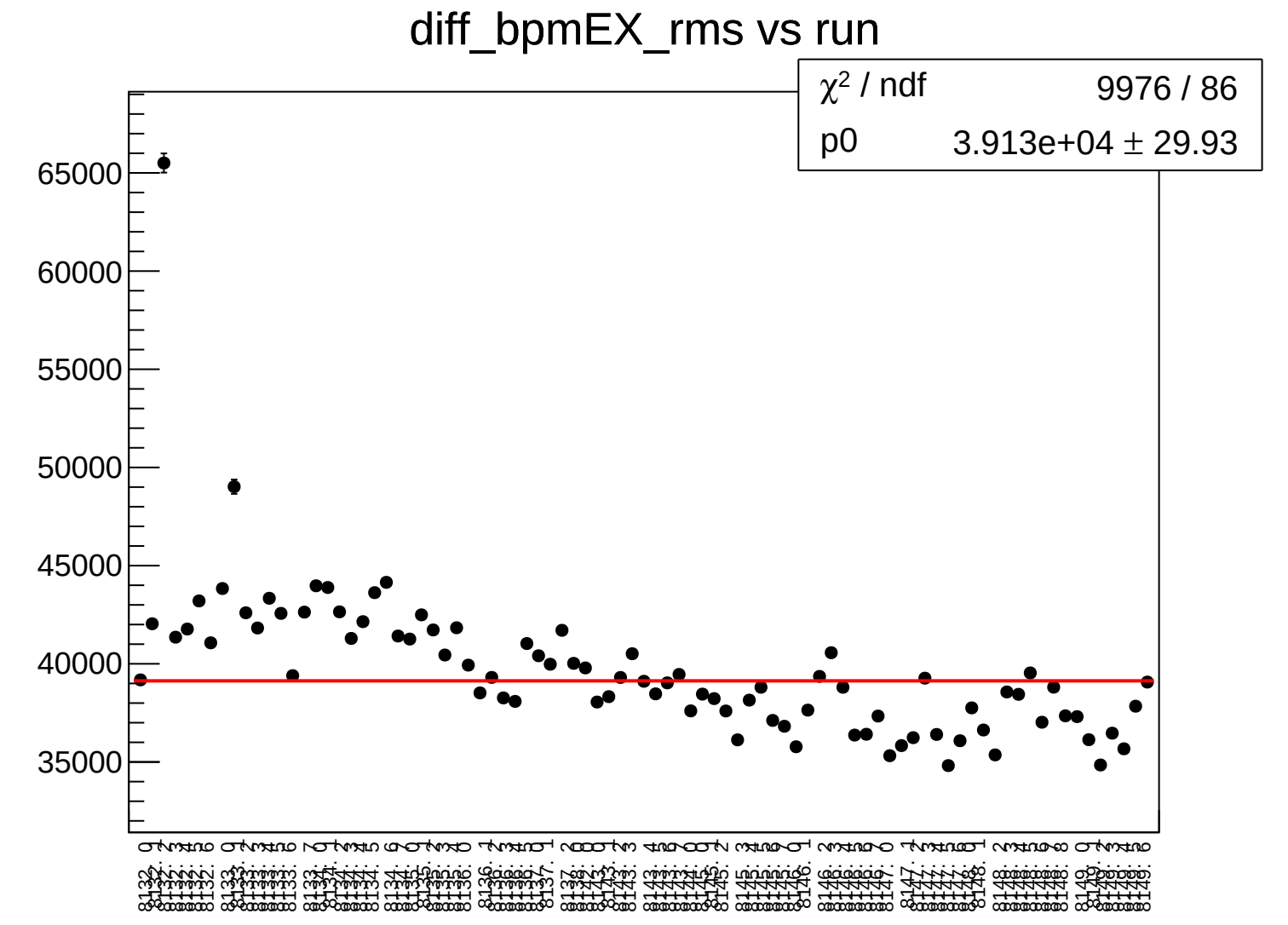

diff_bpmE_mean vs run
χ² / ndf 92.32 / 86
p0 14.76 ± 42.33
pull
Entries 87
Mean −231.7
Std Dev 0

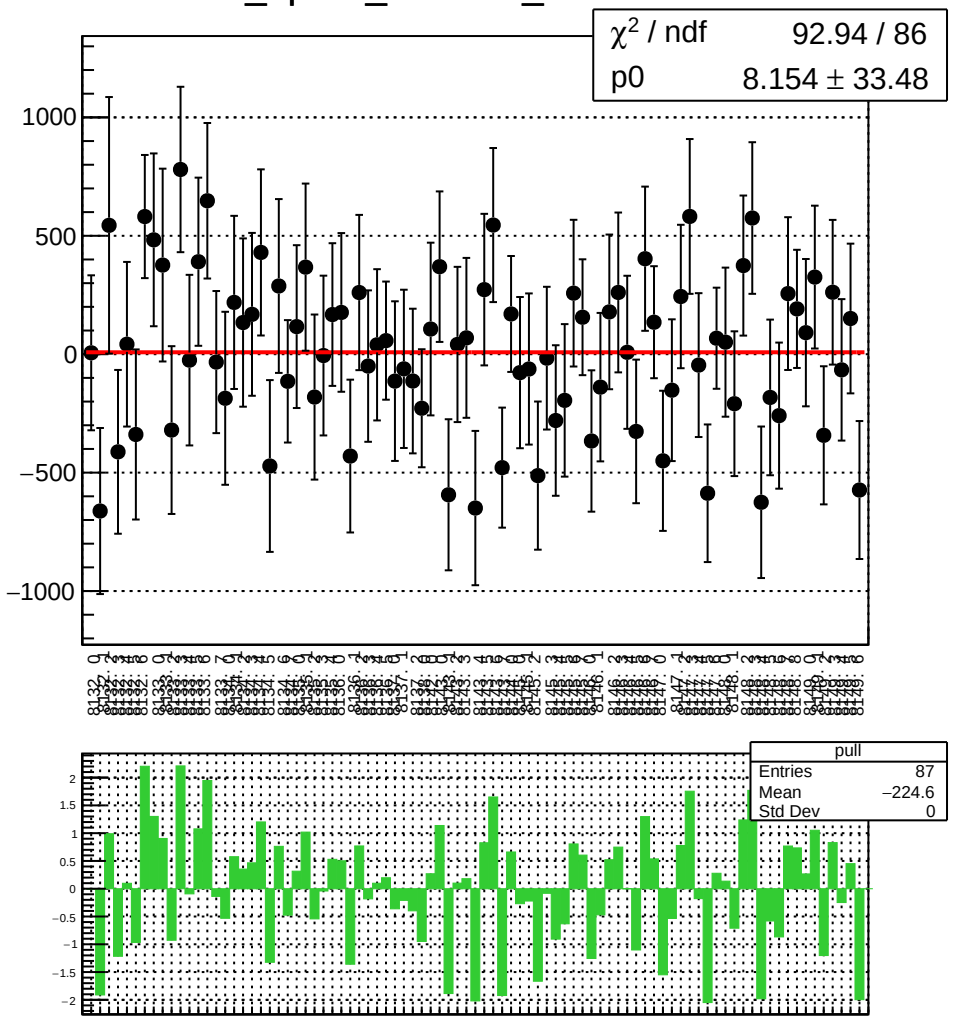

pull1D
Entries 87
Mean 0.01112
Std Dev 1.03

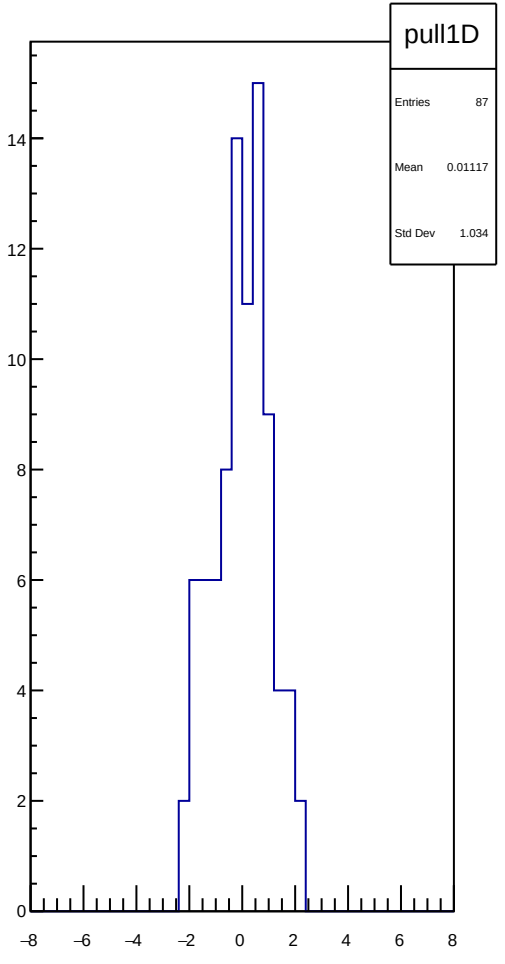

diff_bpmE_rms vs run
χ^2 / ndf 9976 / 86
p0 3.913e+04 ± 29.93
65000
60000
55000
50000
45000
40000
35000

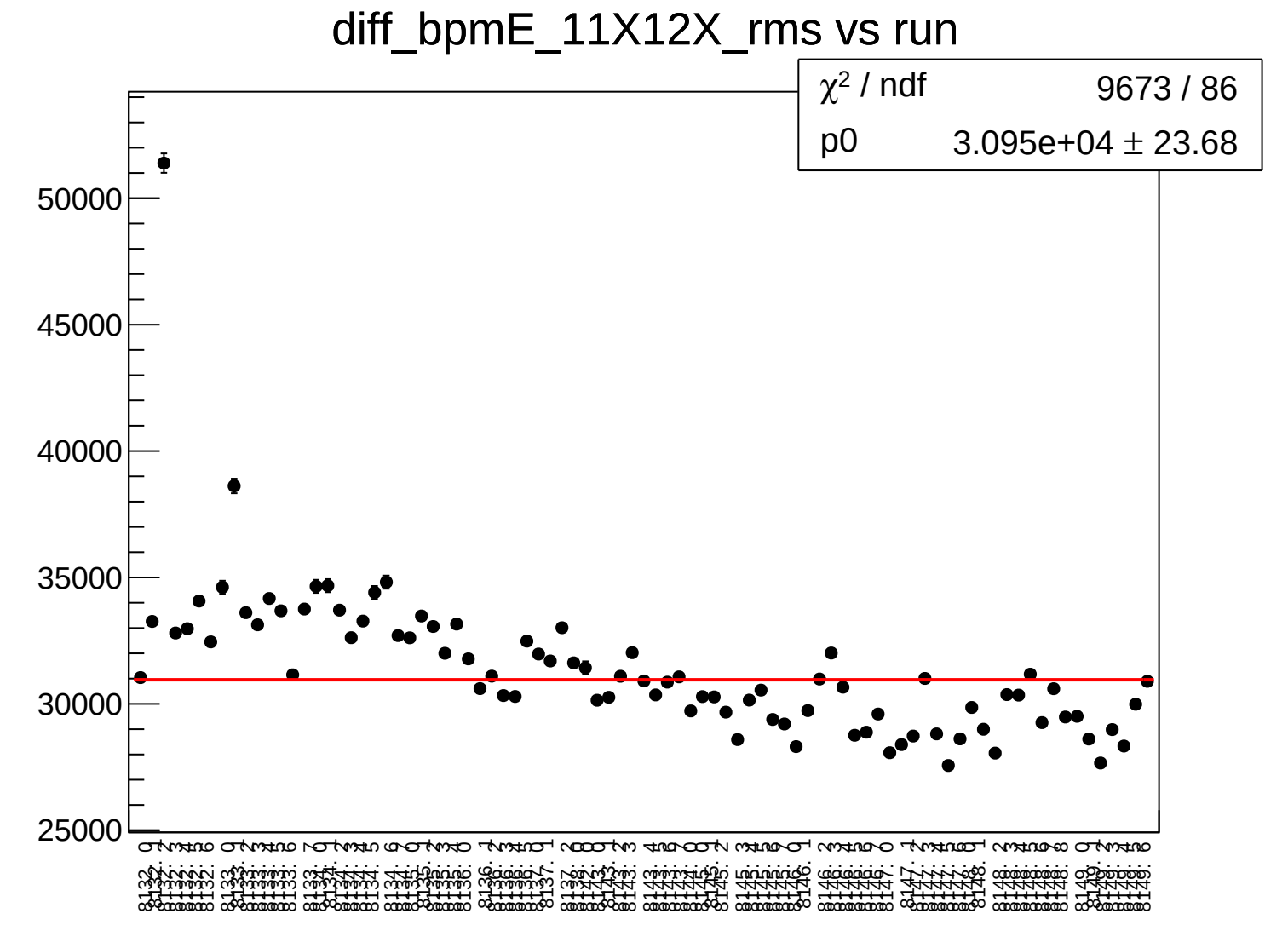

diff_bpmEX_mean vs run
χ² / ndf 92.32 / 86
p0 14.76 ± 42.33
pull
Entries 87
Mean −231.7
Std Dev 0

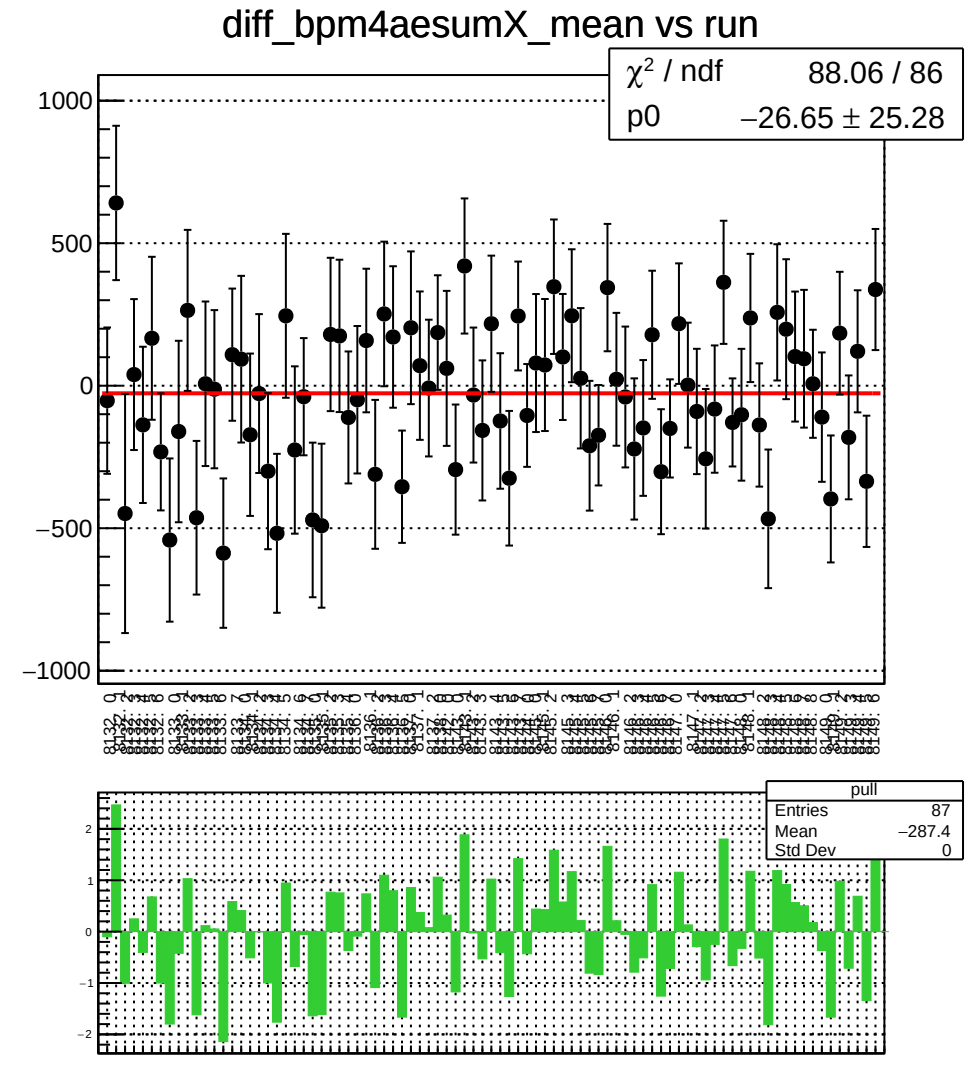

pull1D
Entries 87
Mean 0.01112
Std Dev 1.03

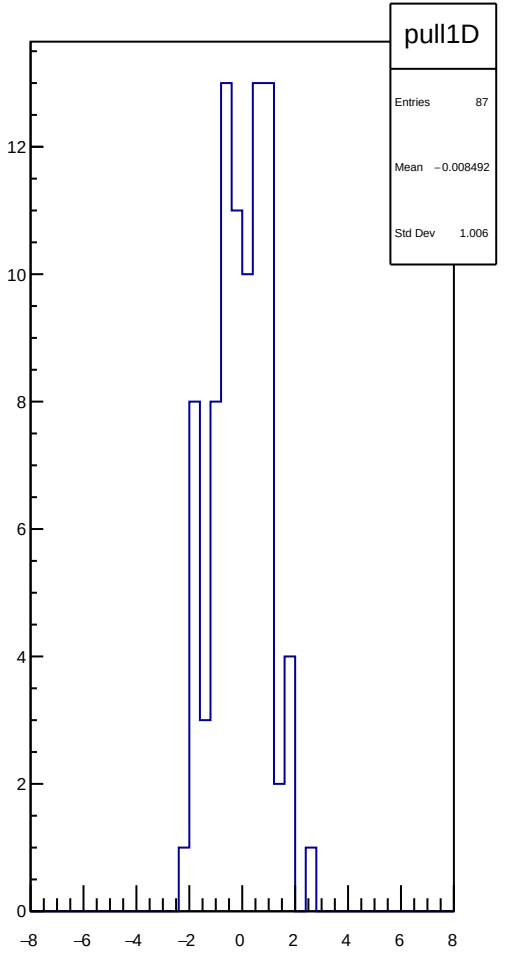

diff_bpmEX_rms vs run
χ^2 / ndf 9976 / 86
p0 3.913e+04 ± 29.93
65000
60000
55000
50000
45000
40000
35000

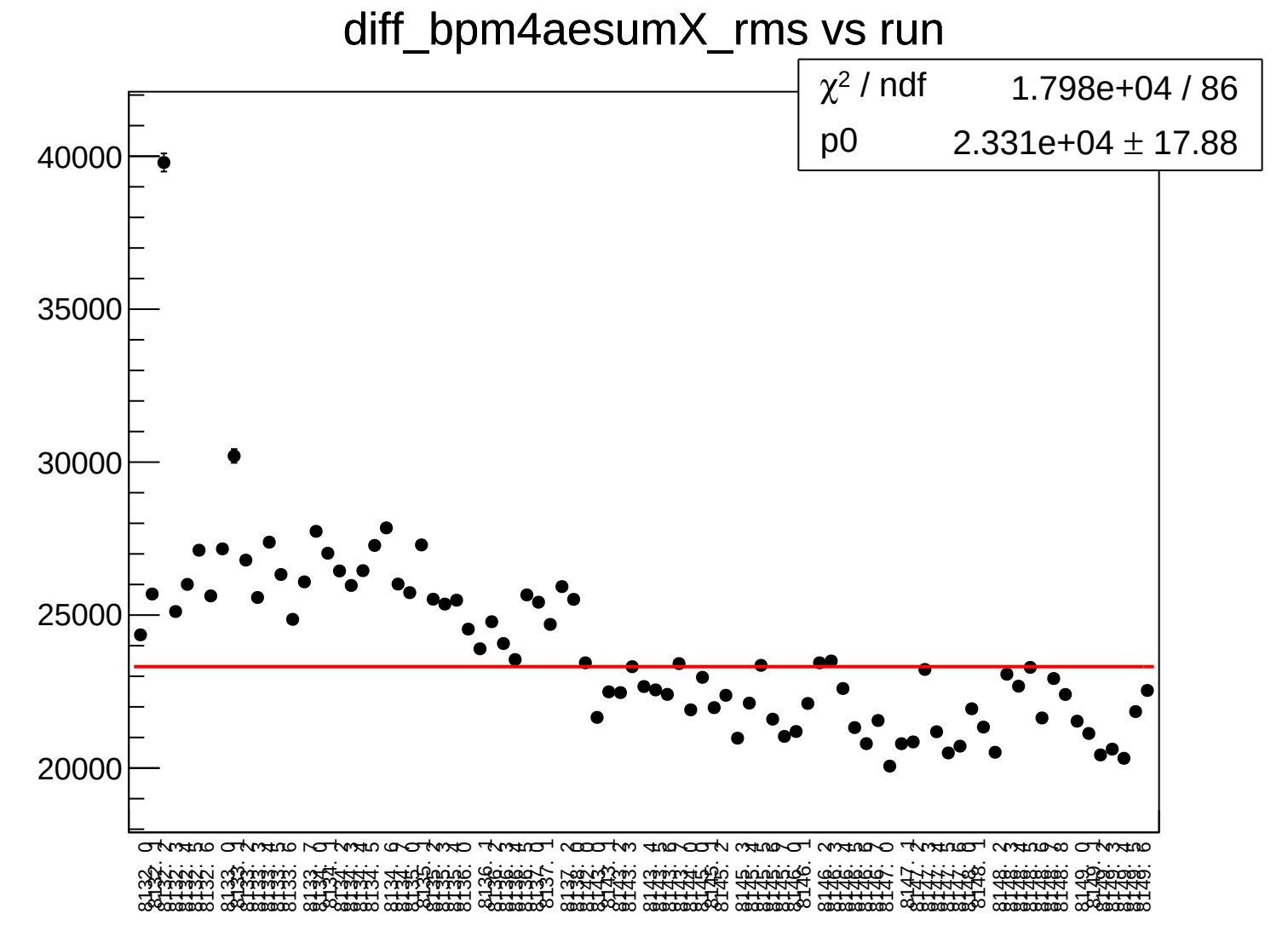

diff_bpmE_11X12X_mean vs run
χ² / ndf 92.94 / 86
p0 8.154 ± 33.48
1000
500
0
−500
−1000
pull
Entries 87
Mean −224.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

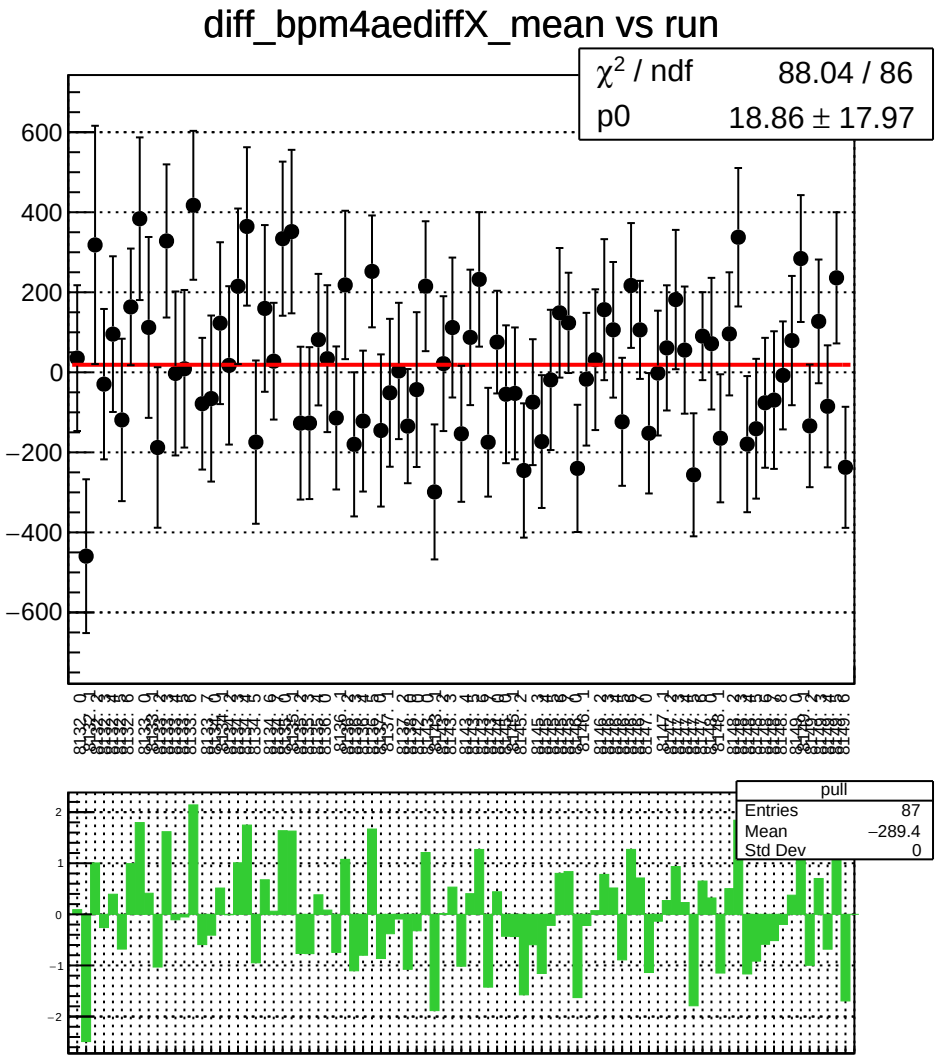

pull1D
Entries 87
Mean 0.01117
Std Dev 1.034
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

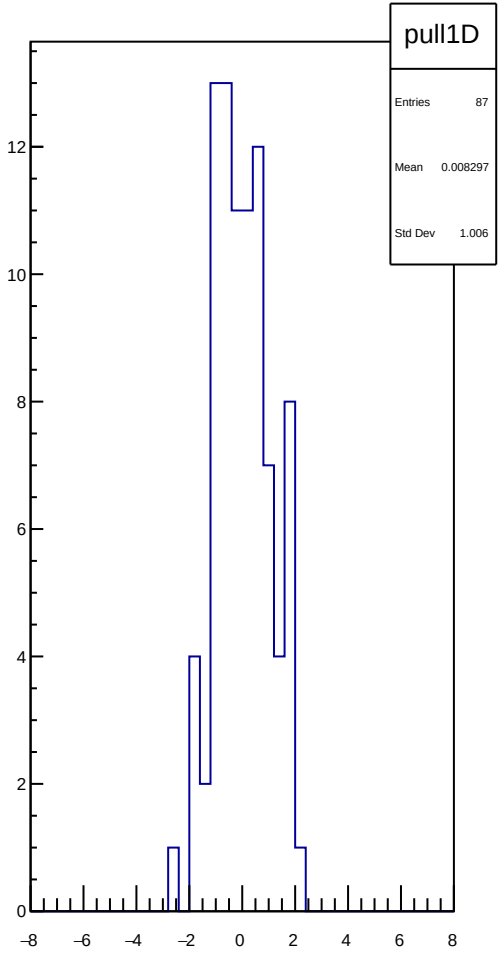

diff_bpmE_11X12X_rms vs run
χ² / ndf 9673 / 86
p0 3.095e+04 ± 23.68
50000
45000
40000
35000
30000
25000


diff_bpm4aesumX_mean vs run
χ² / ndf 88.06 / 86
p0 −26.65 ± 25.28
1000
500
0
−500
−1000
pull
Entries 87
Mean −287.4
Std Dev 0
2
1
0
−1
−2

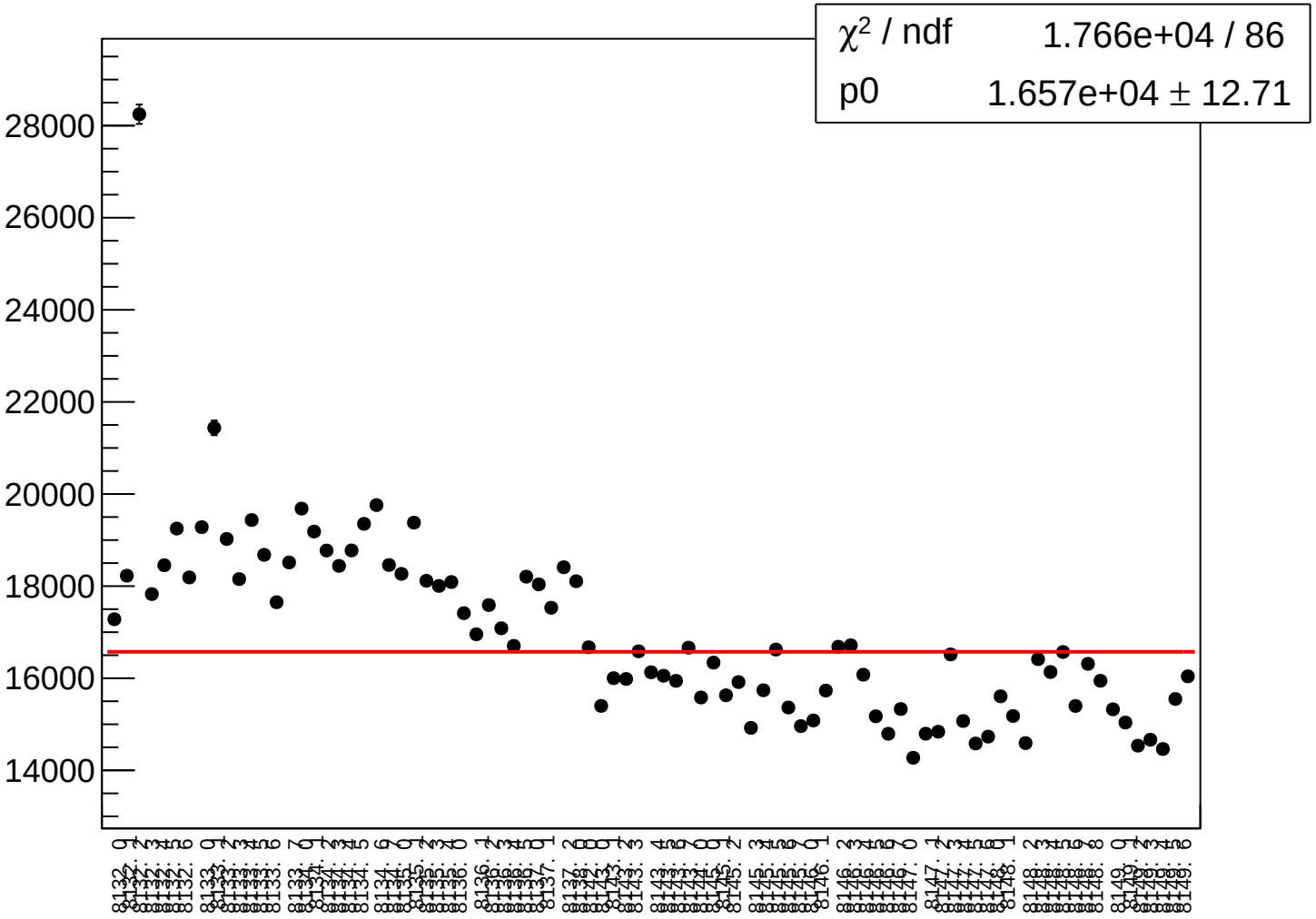

pull1D
Entries 87
Mean −0.008492
Std Dev 1.006
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

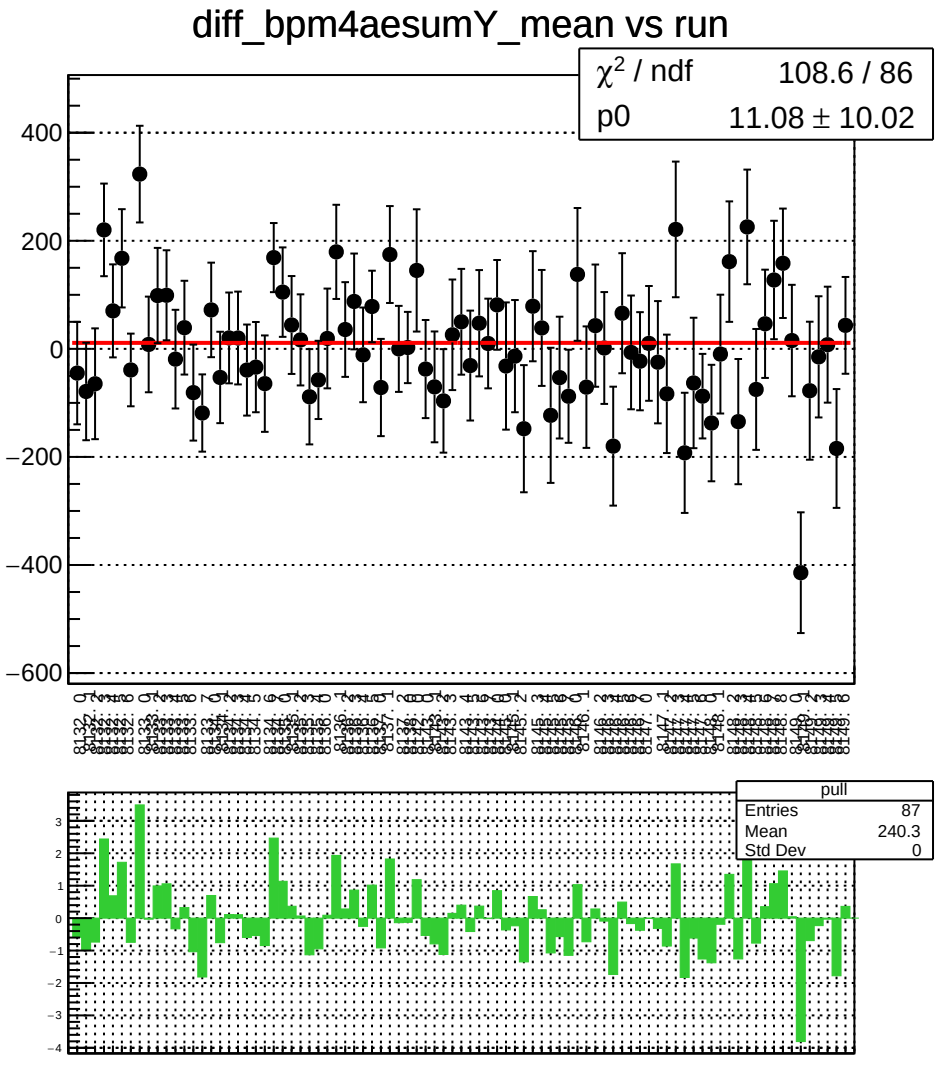

diff_bpm4aesumX_rms vs run
χ² / ndf 1.798e+04 / 86
p0 2.331e+04 ± 17.88
40000
35000
30000
25000
20000

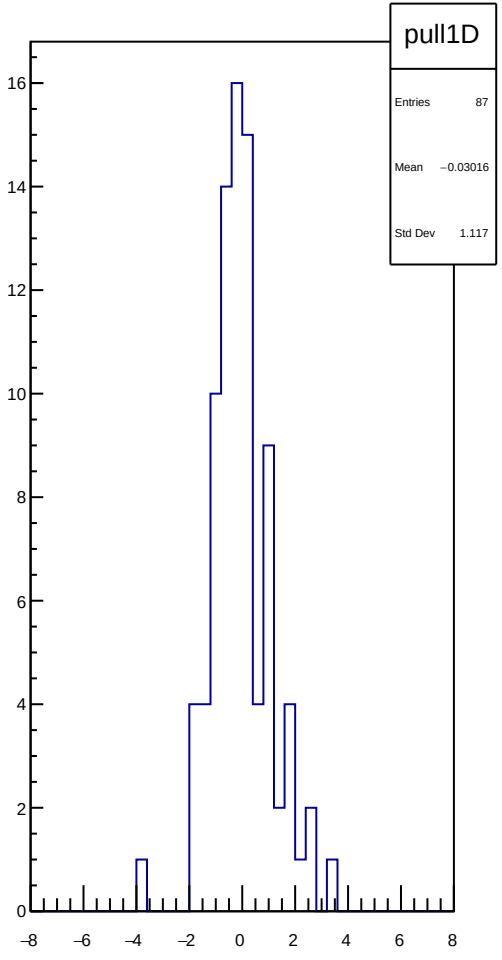

diff_bpm4aediffX_mean vs run
χ² / ndf 88.04 / 86
p0 18.86 ± 17.97
pull
Entries 87
Mean −289.4
Std Dev 0

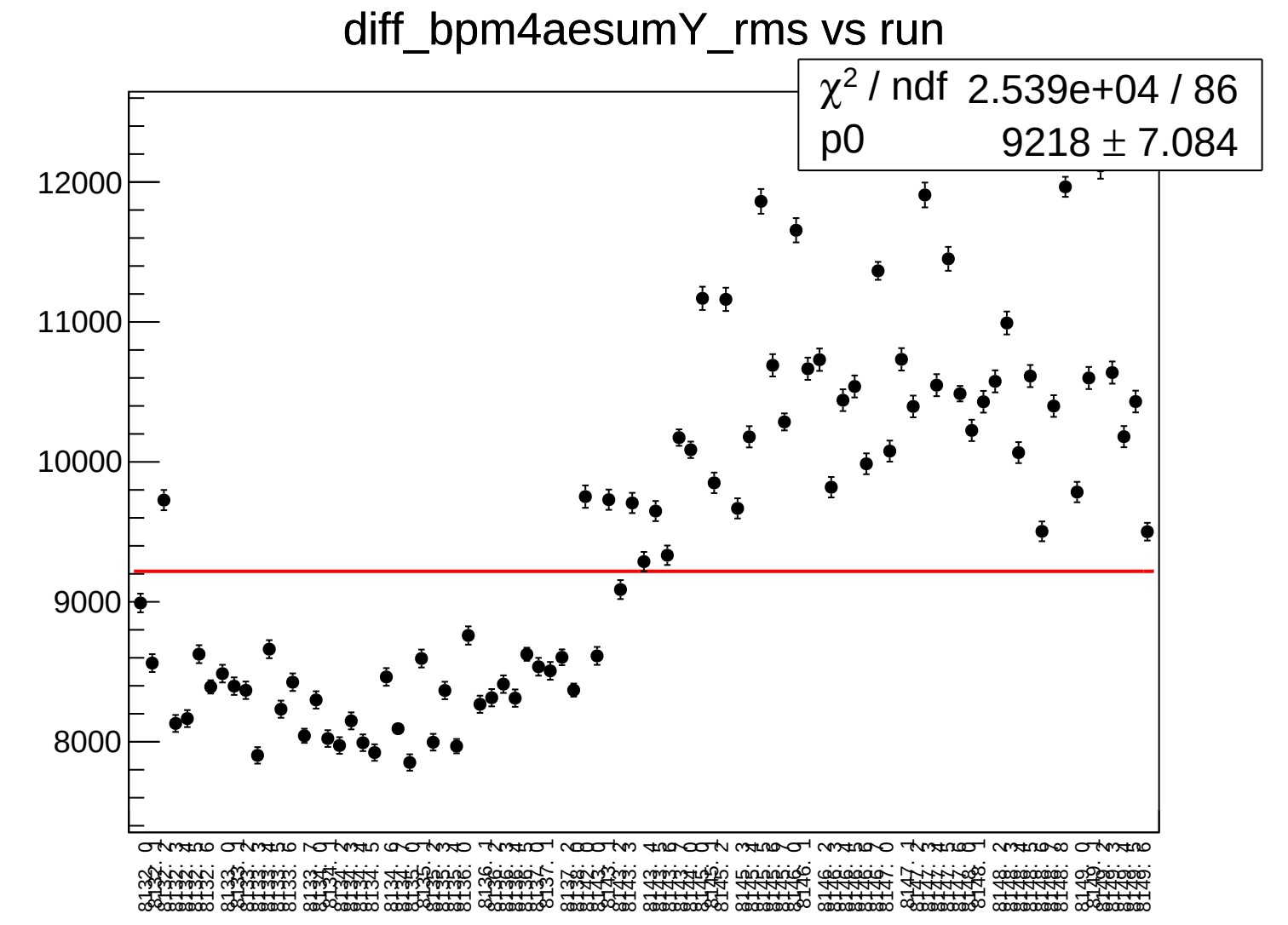

pull1D
Entries 87
Mean 0.008297
Std Dev 1.006

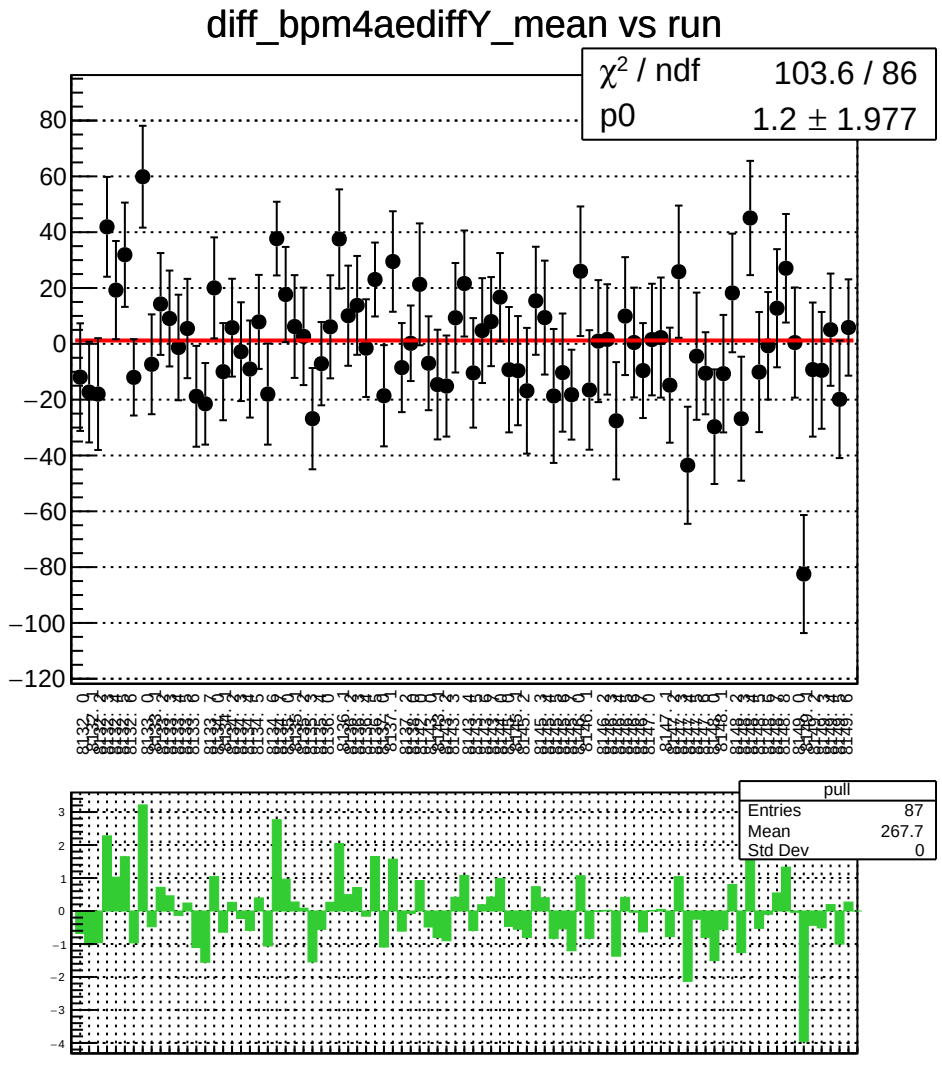
diff_bpm4aediffX_rms vs run

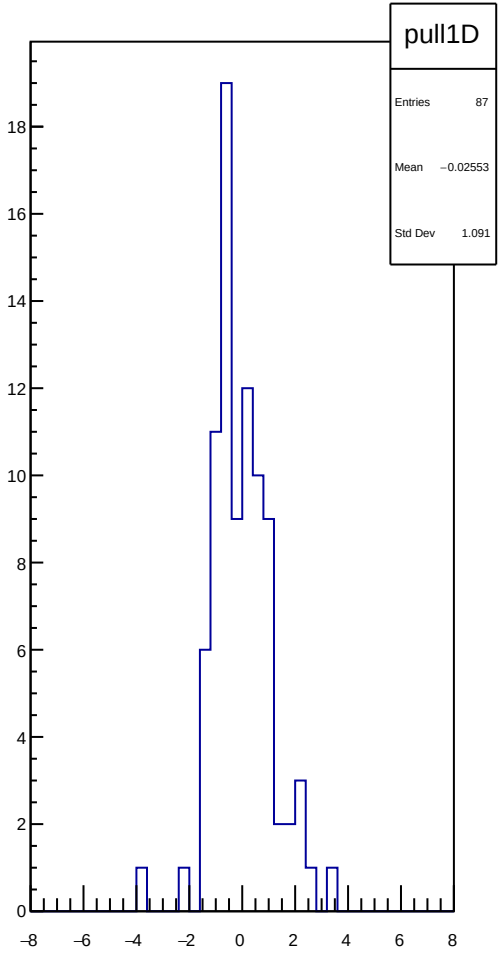


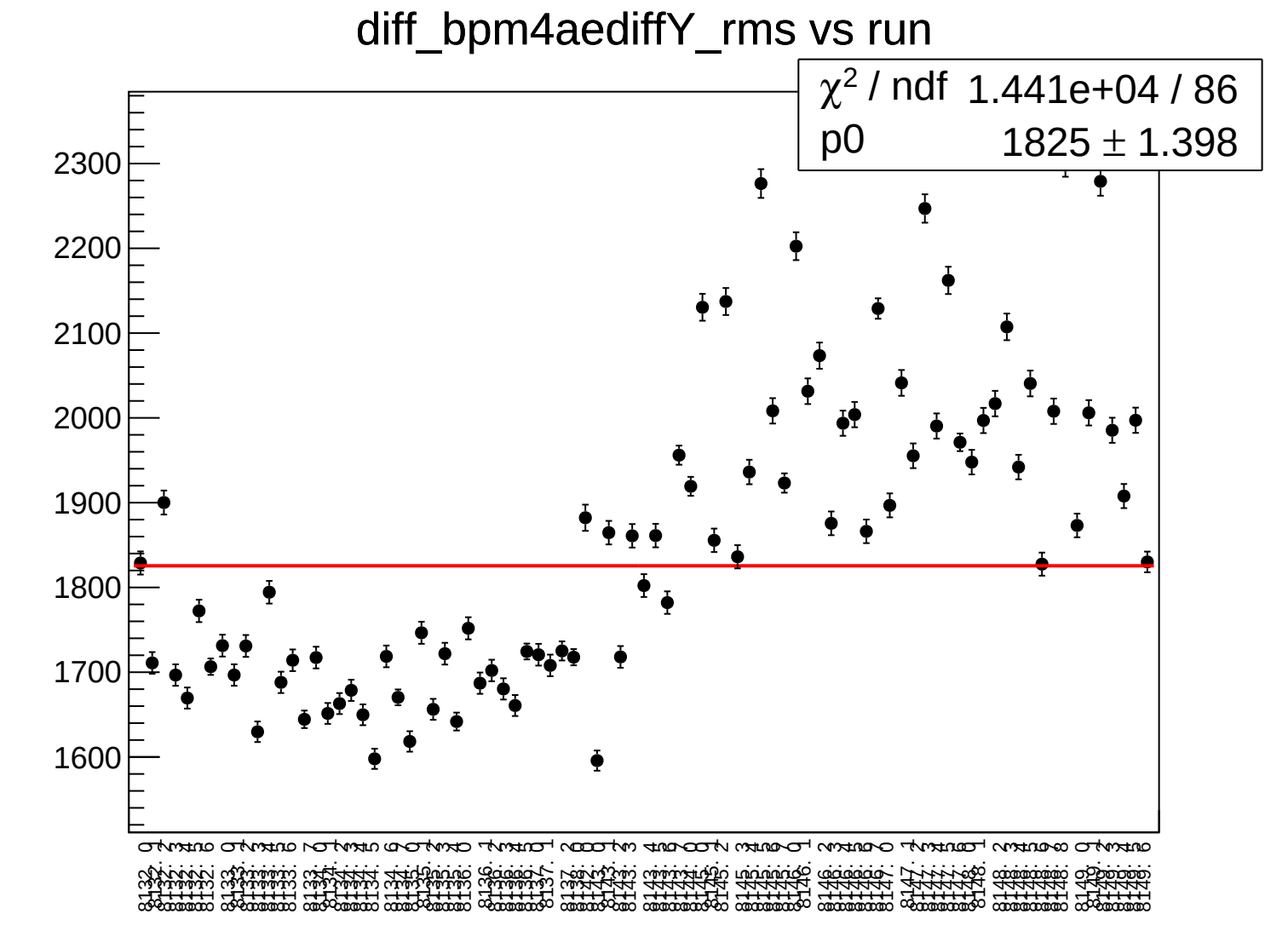

diff_bpm4aesumY_mean vs run
χ^2 / ndf 108.6 / 86
p0 11.08 ± 10.02
pull
Entries 87
Mean 240.3
Std Dev 0

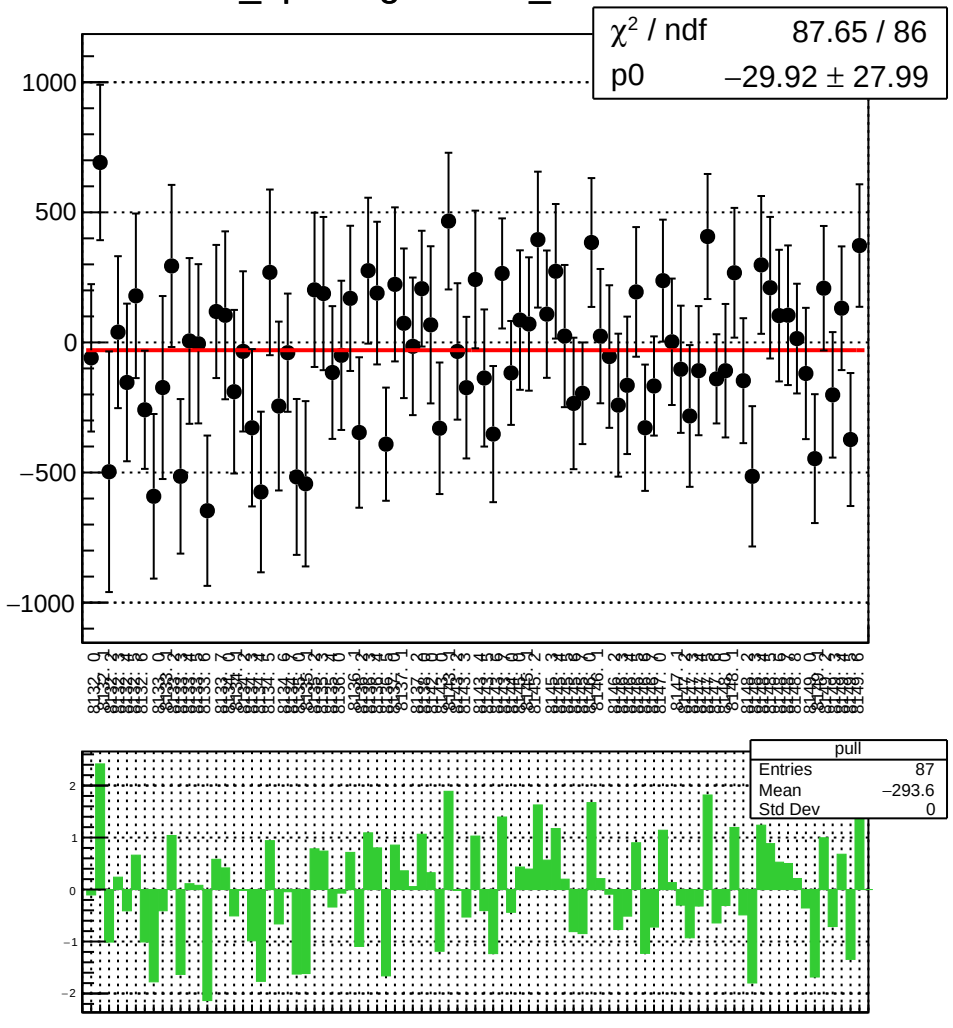

pull1D
Entries 87
Mean −0.03016
Std Dev 1.117

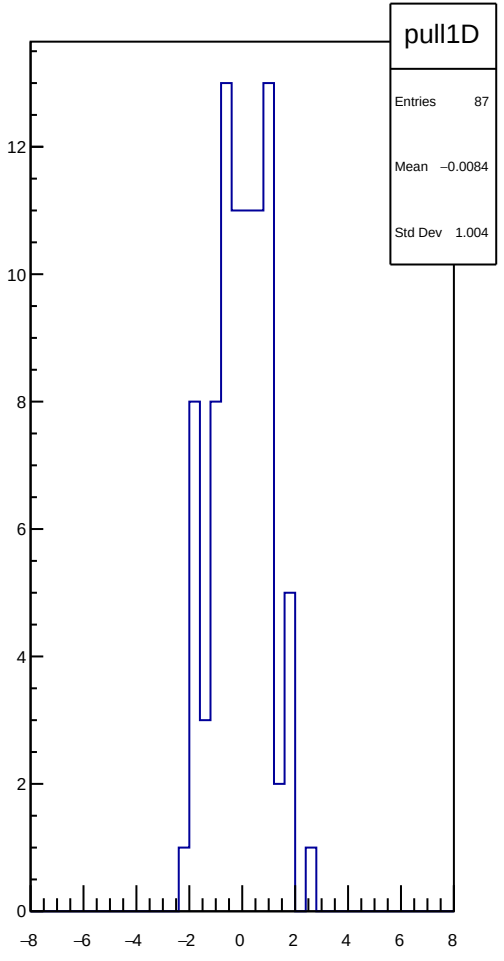

diff_bpm4aesumY_rms vs run
χ² / ndf 2.539e+04 / 86
p0 9218 ± 7.084
12000
11000
10000
9000
8000

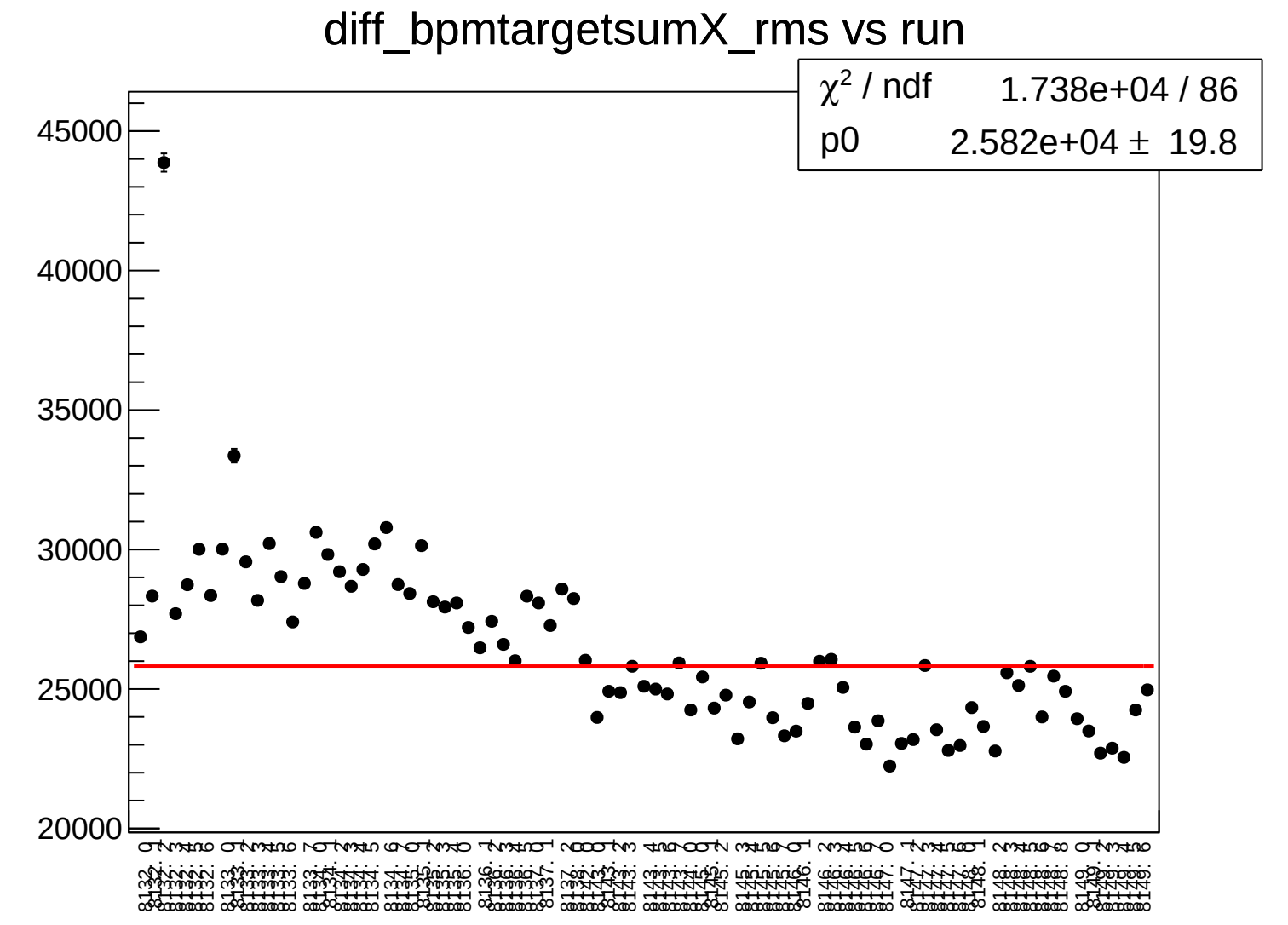

diff_bpm4aediffY_mean vs run
χ² / ndf 103.6 / 86
p0 1.2 ± 1.977
pull
Entries 87
Mean 267.7
Std Dev 0

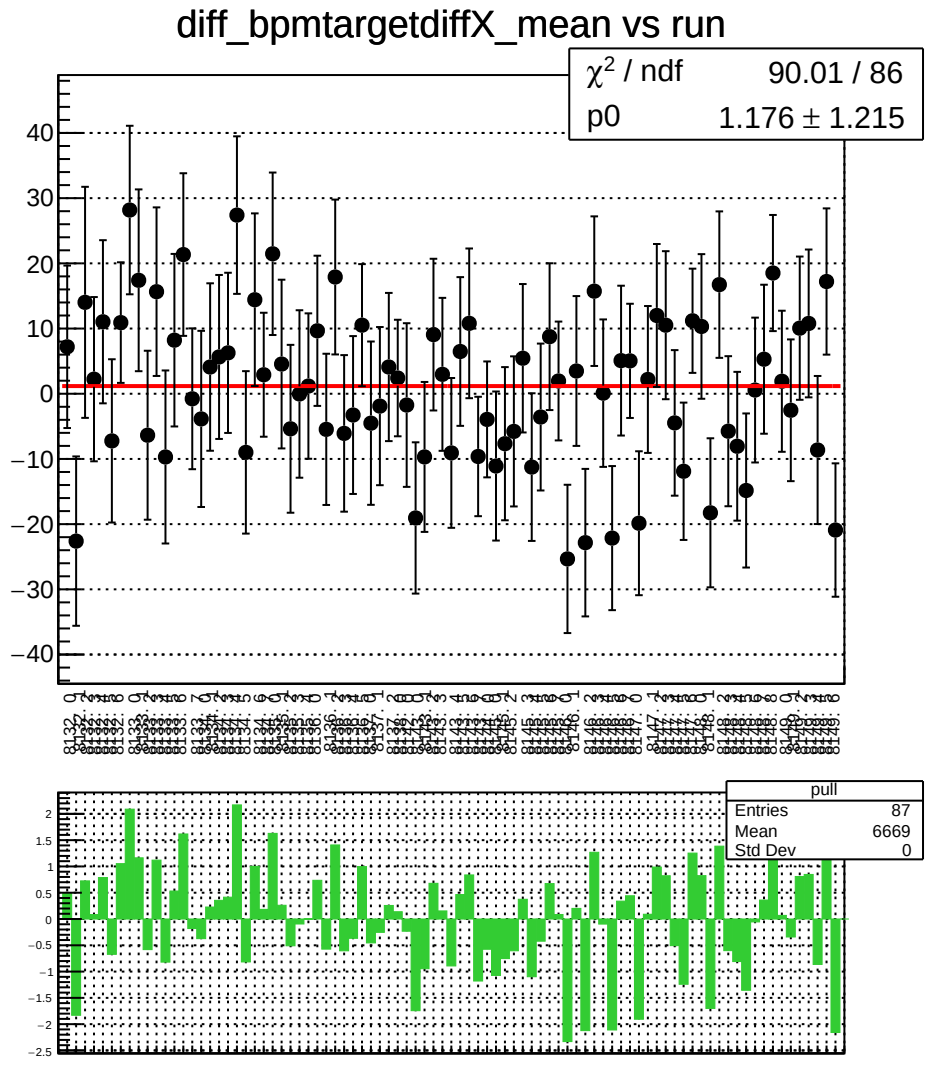

pull1D
Entries 87
Mean −0.02553
Std Dev 1.091

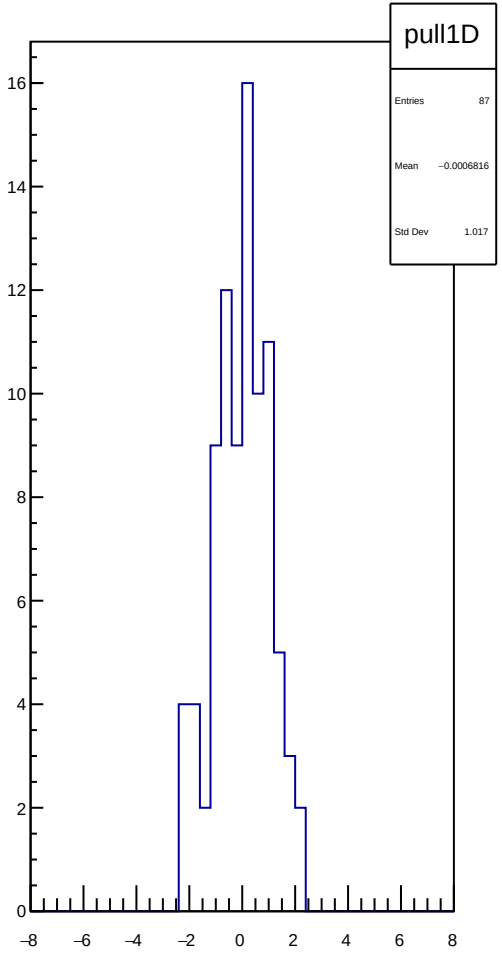

diff_bpm4aediffY_rms vs run
χ² / ndf 1.441e+04 / 86
p0 1825 ± 1.398
2300
2200
2100
2000
1900
1800
1700
1600

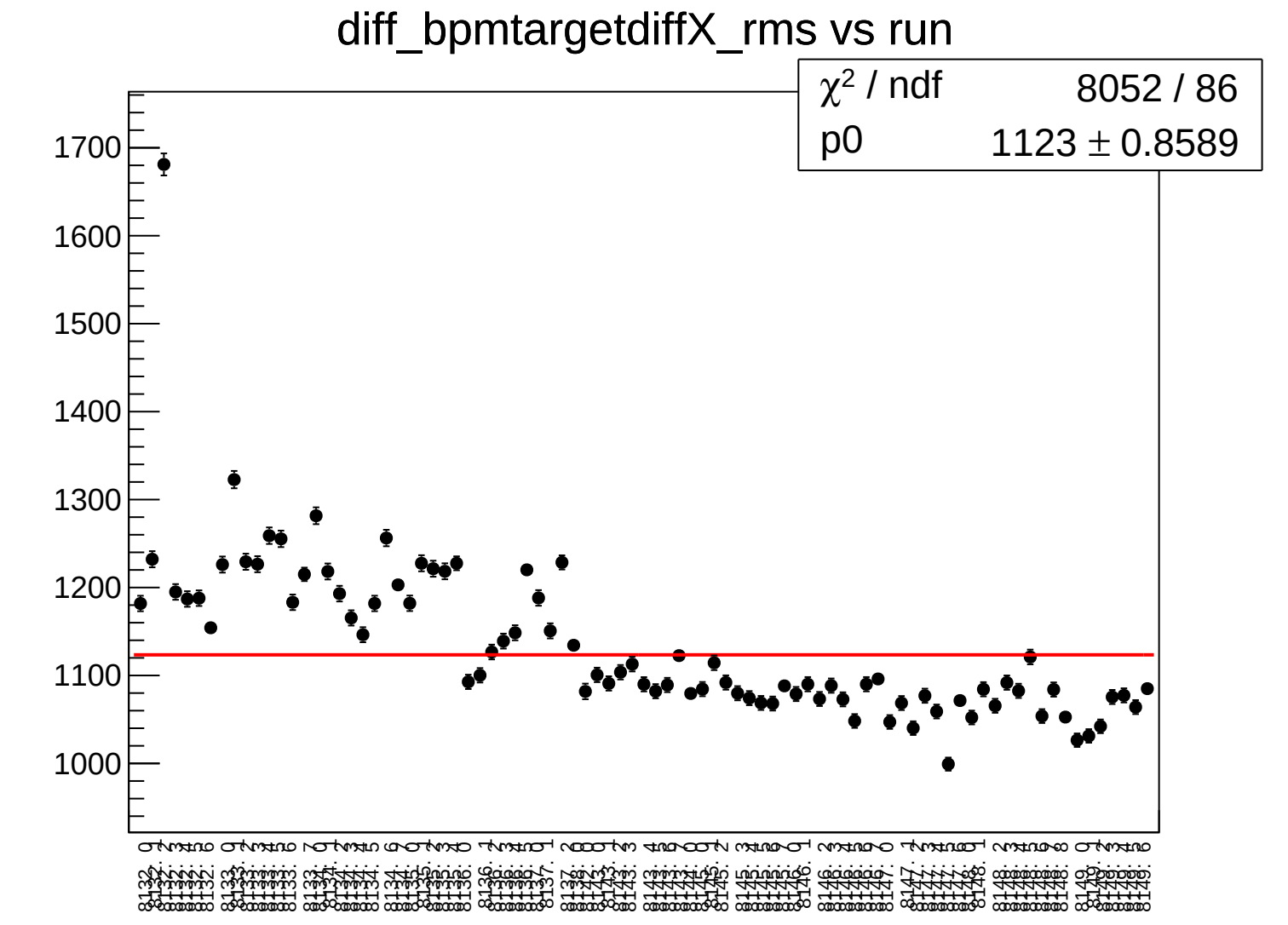

diff_bpmtargetsumX_mean vs run
χ² / ndf 87.65 / 86
p0 −29.92 ± 27.99
1000
500
0
−500
−1000
pull
Entries 87
Mean −293.6
Std Dev 0
2
1
0
−1
−2

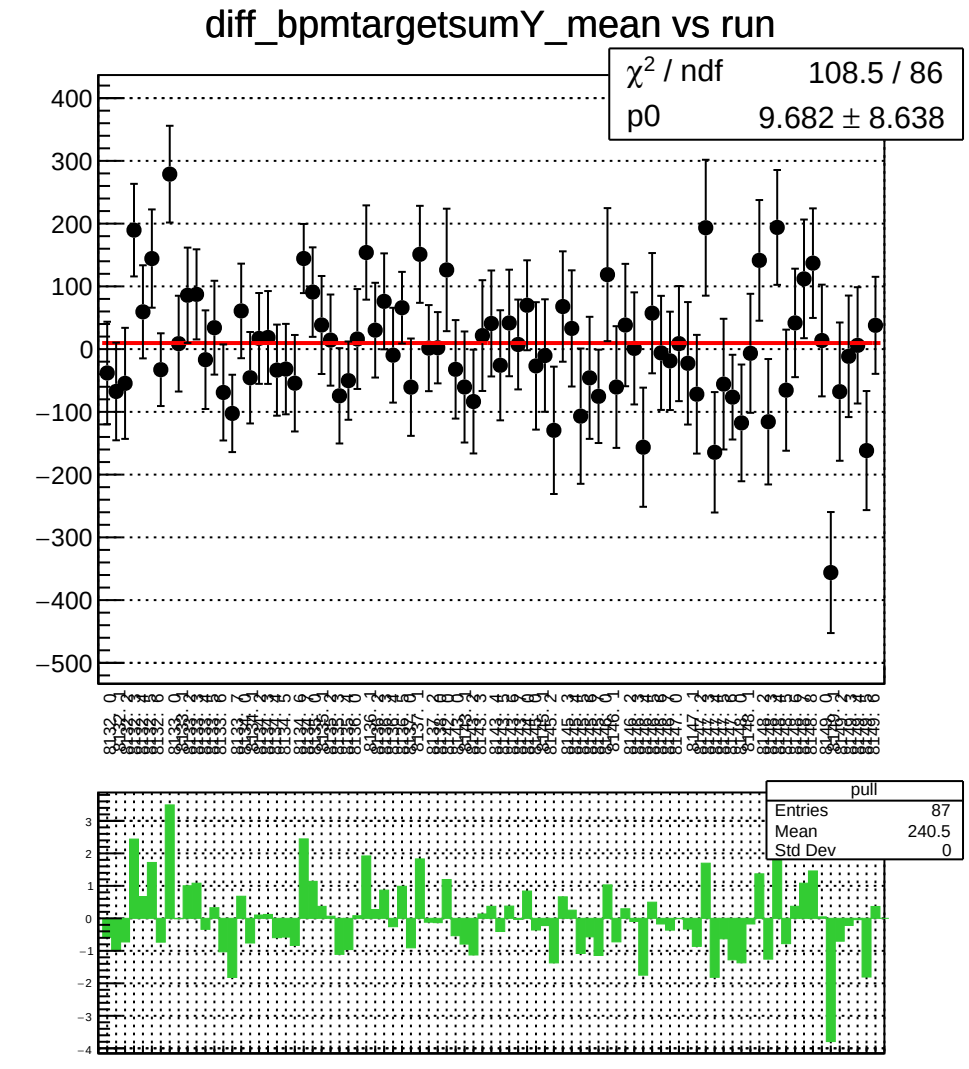

pull1D
Entries 87
Mean −0.0084
Std Dev 1.004
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

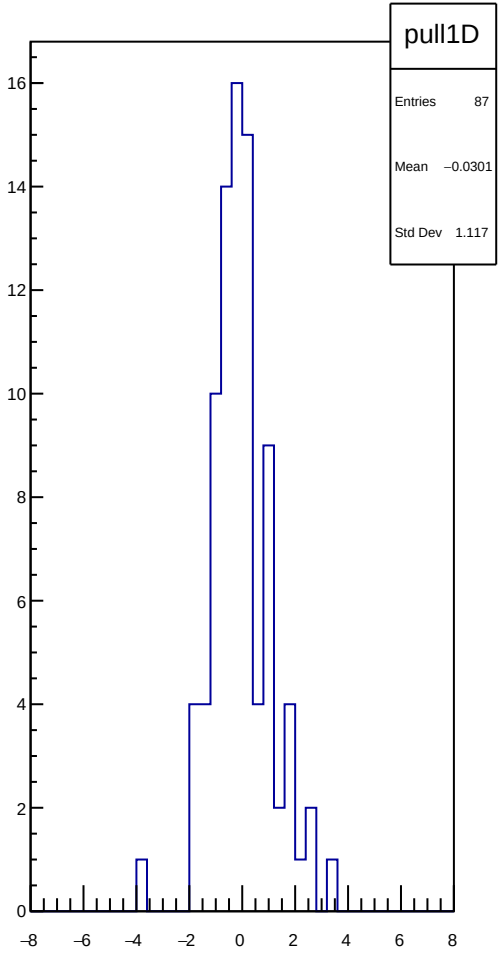

diff_bpmtargetsumX_rms vs run
χ² / ndf 1.738e+04 / 86
p0 2.582e+04 ± 19.8
45000
40000
35000
30000
25000
20000

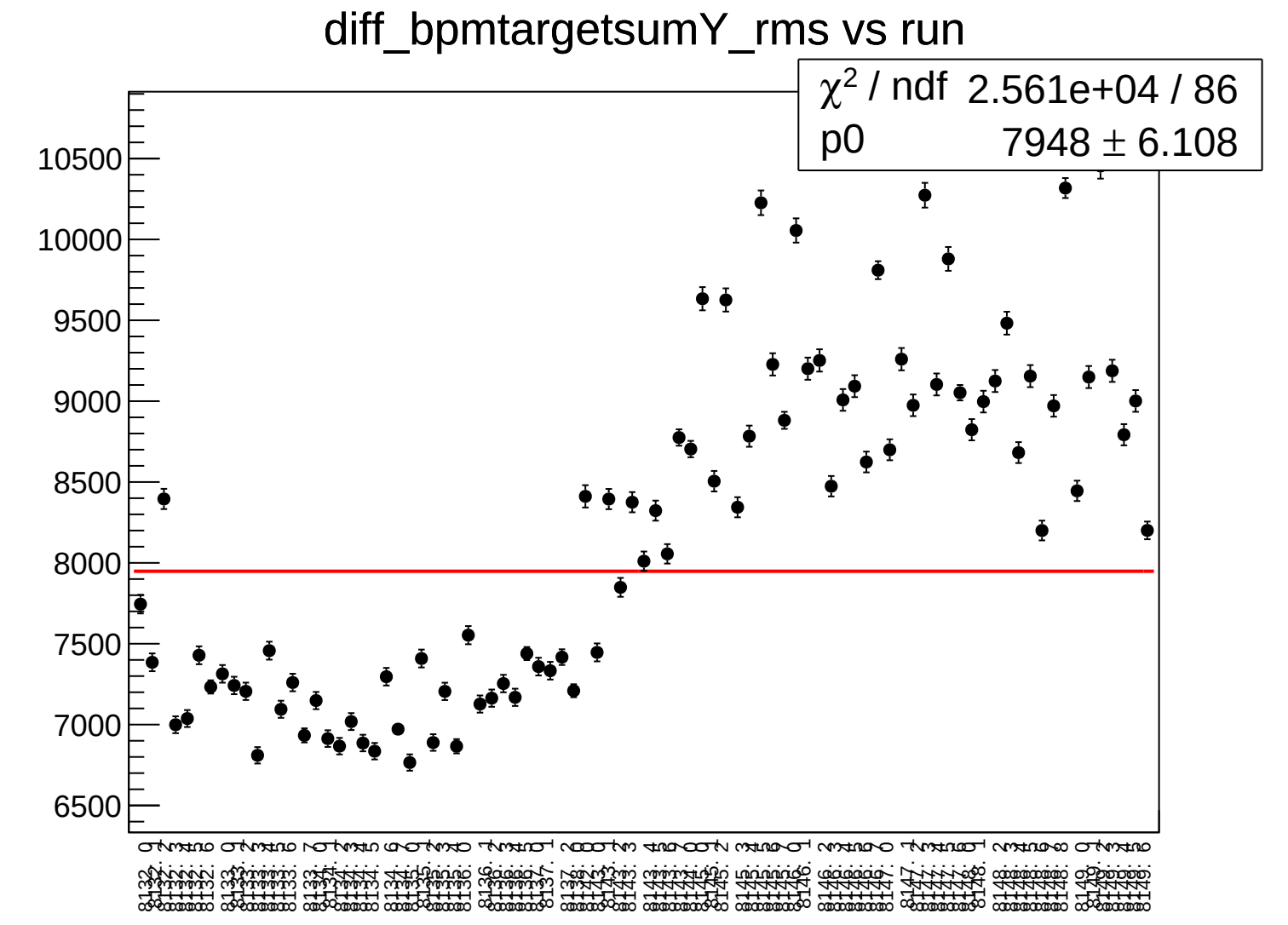

diff_bpmtargetdiffX_mean vs run
χ² / ndf 90.01 / 86
p0 1.176 ± 1.215
pull
Entries 87
Mean 6669
Std Dev 0

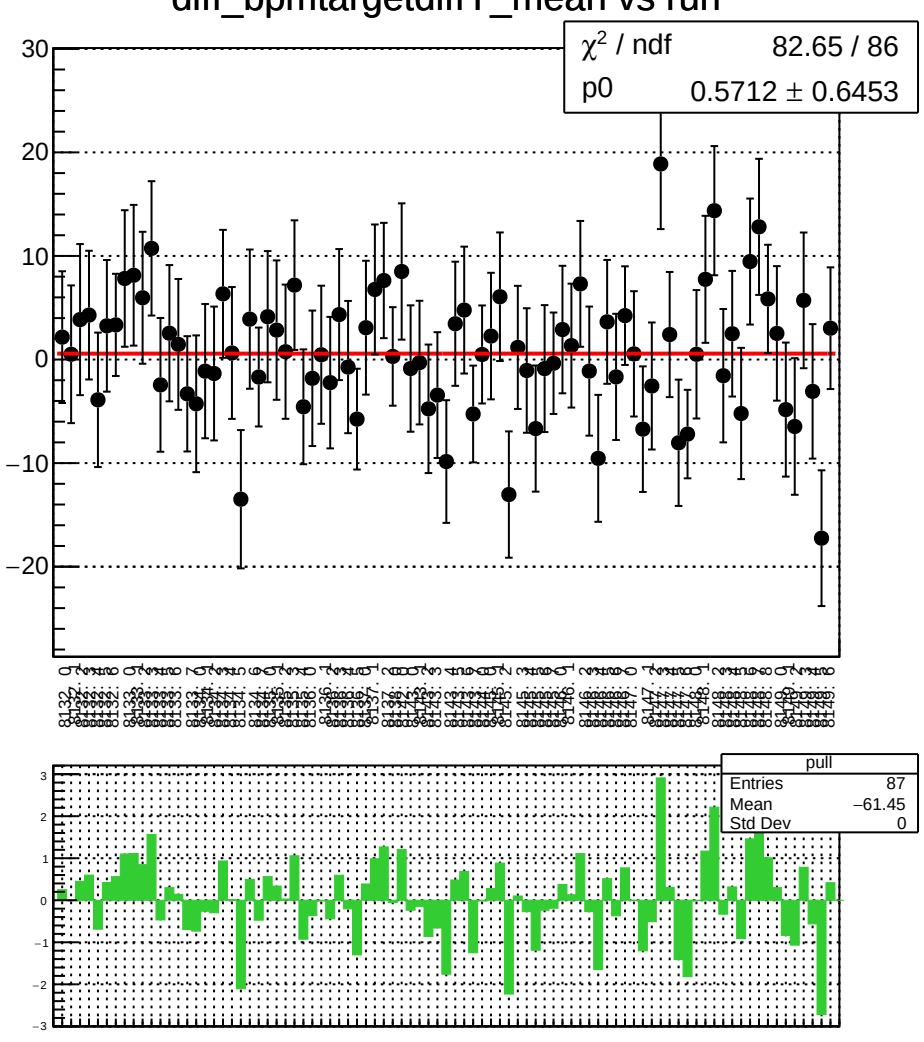

pull1D
Entries 87
Mean −0.0006816
Std Dev 1.017

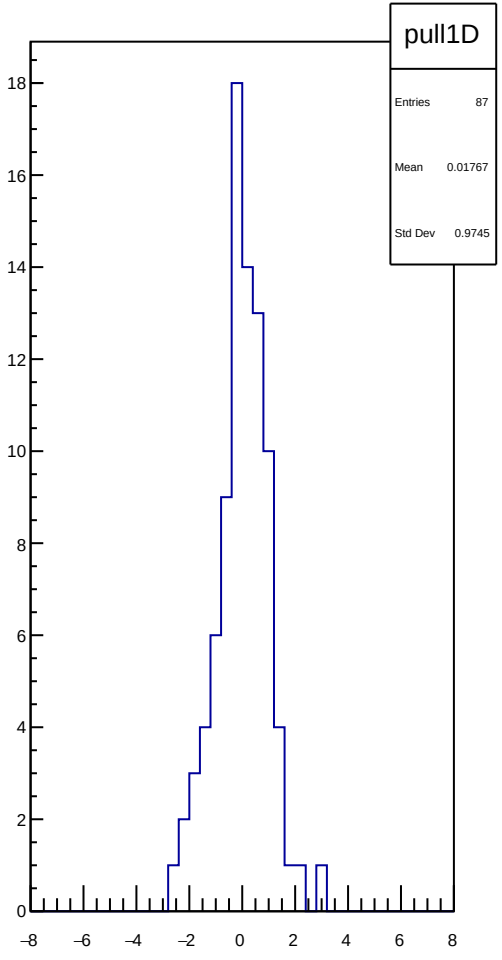

diff_bpmtargetdiffX_rms vs run
χ² / ndf 8052 / 86
p0 1123 ± 0.8589
1700
1600
1500
1400
1300
1200
1100
1000

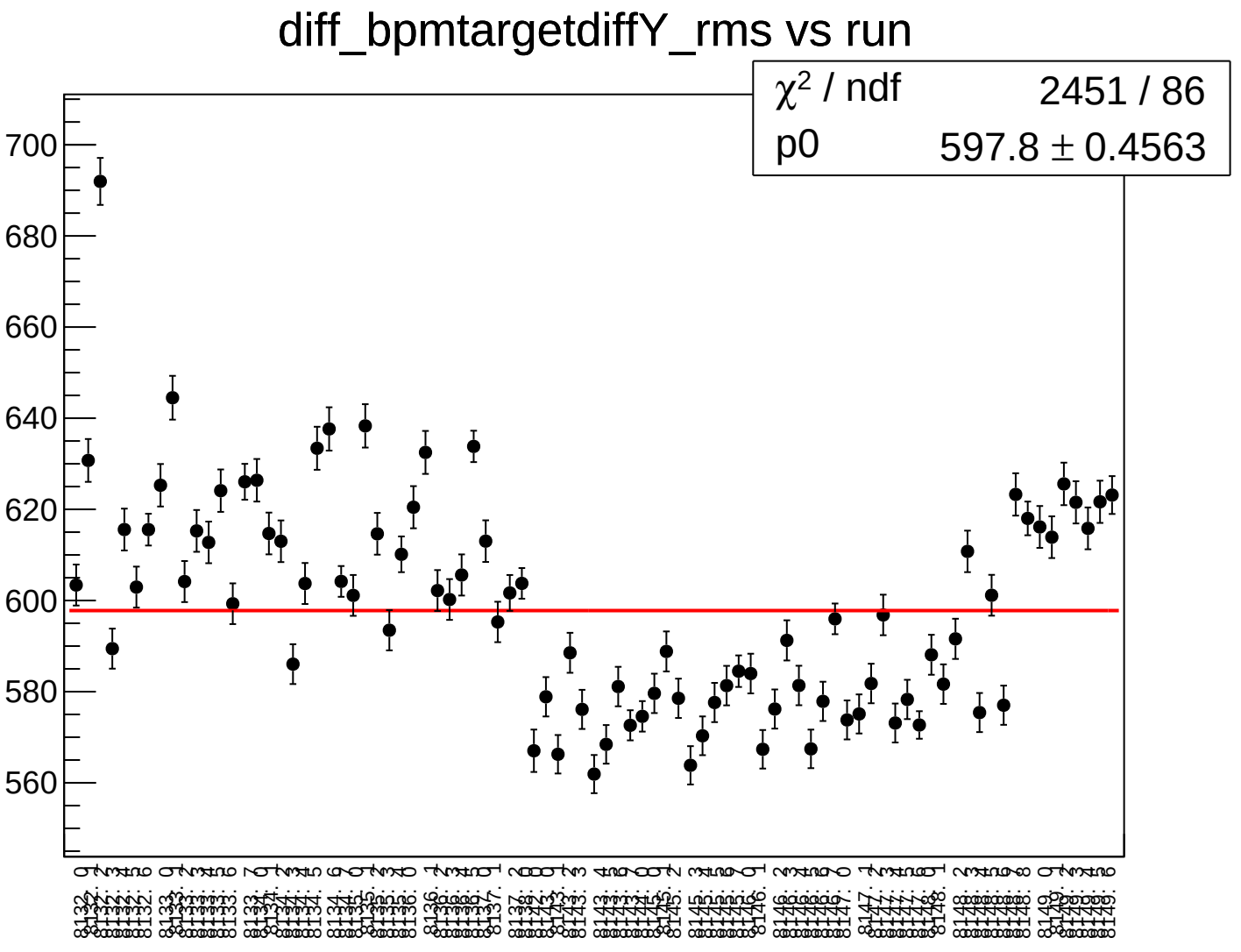

diff_bpmtargetsumY_mean vs run
χ² / ndf 108.5 / 86
p0 9.682 ± 8.638
pull
Entries 87
Mean 240.5
Std Dev 0

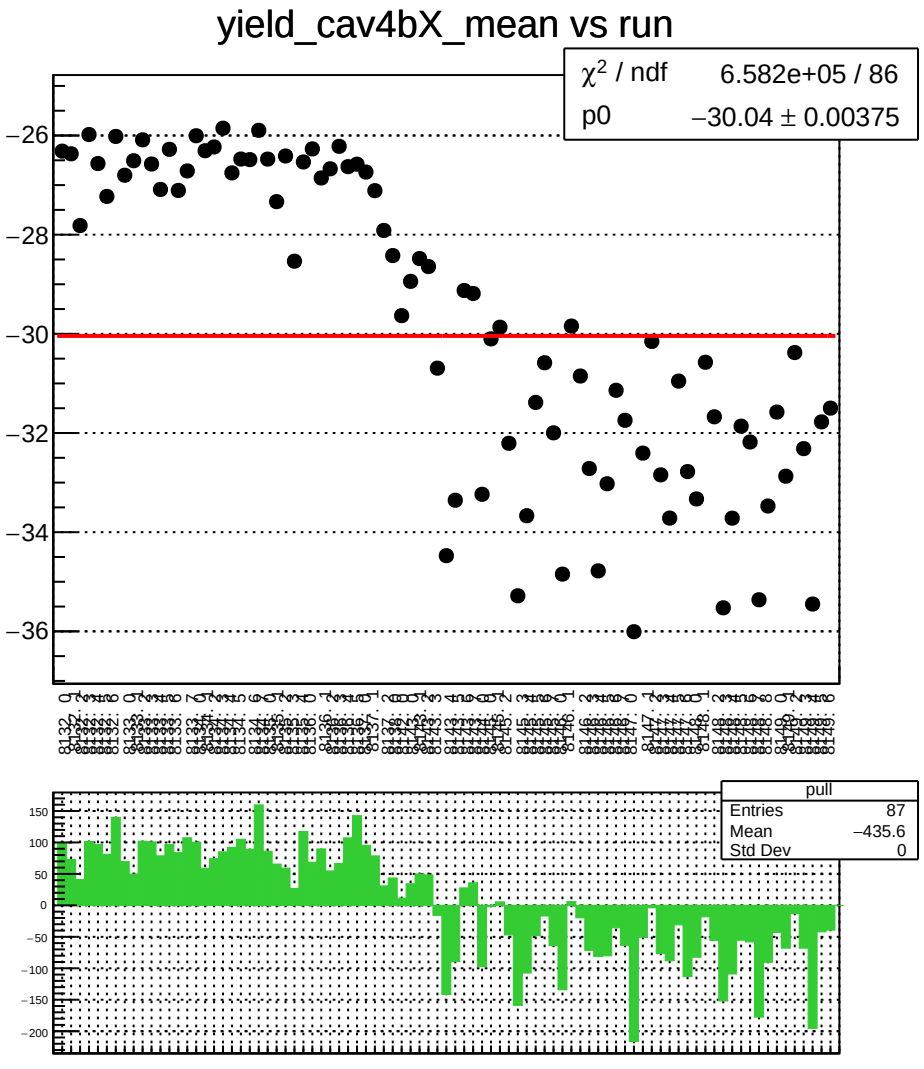

pull1D
Entries 87
Mean −0.0301
Std Dev 1.117

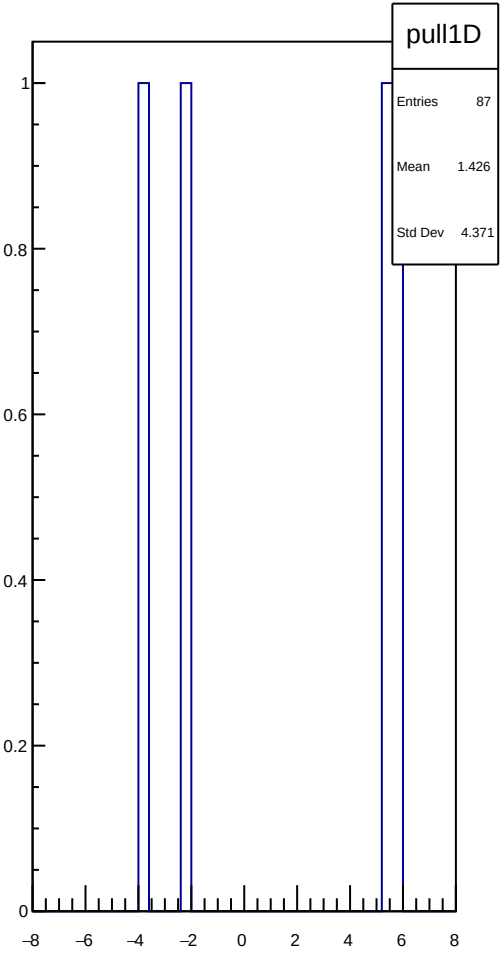

diff_bpmtargetsumY_rms vs run
χ² / ndf 2.561e+04 / 86
p0 7948 ± 6.108
10500
10000
9500
9000
8500
8000
7500
7000
6500

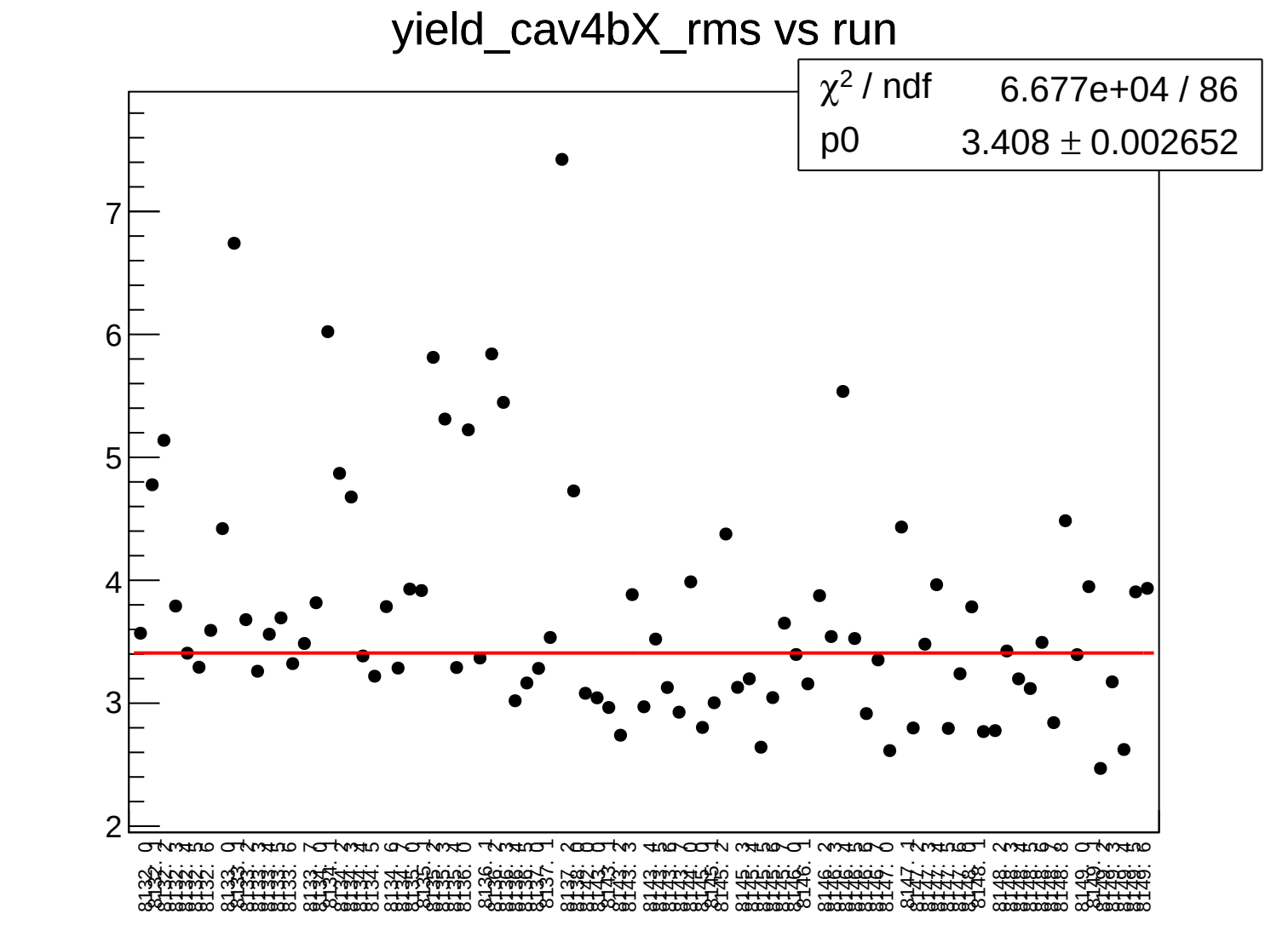

diff_bpmtargetdiffY_mean vs run
χ² / ndf 82.65 / 86
p0 0.5712 ± 0.6453
pull
Entries 87
Mean −61.45
Std Dev 0

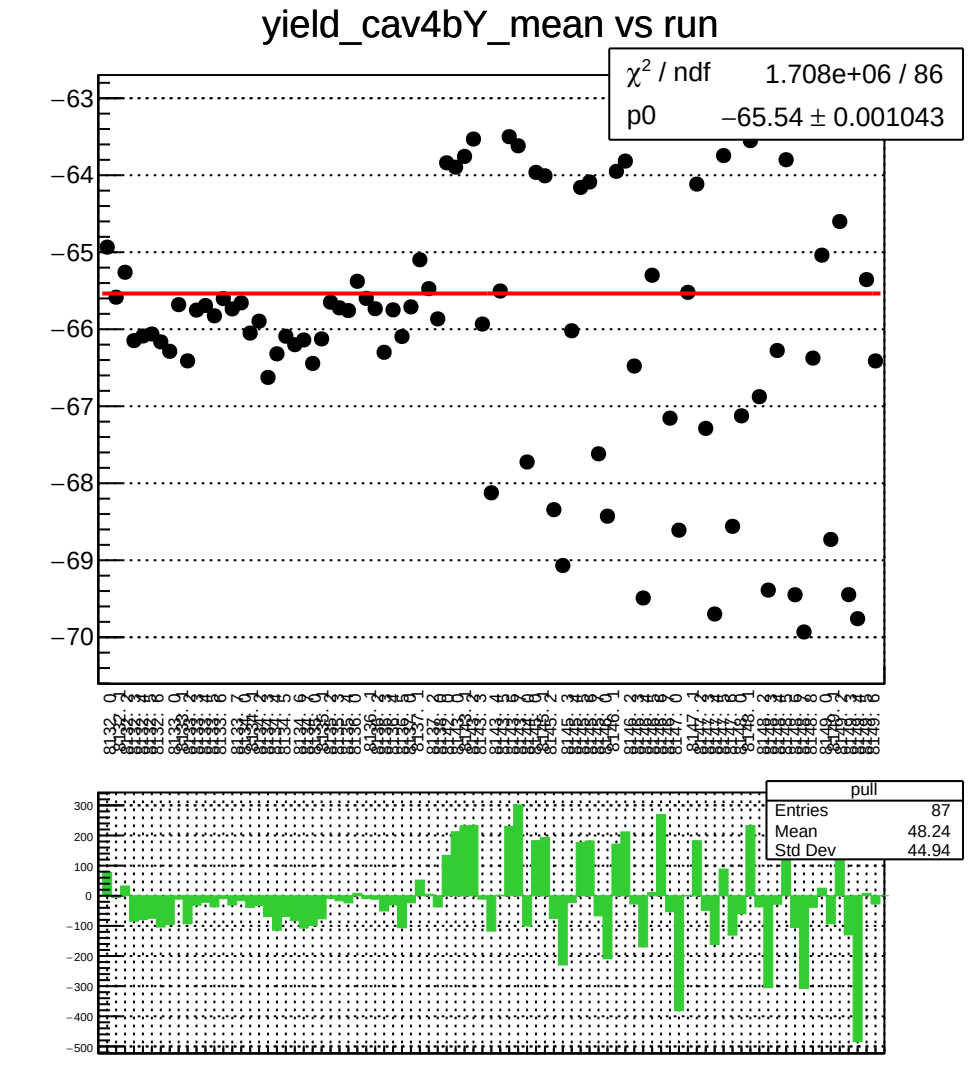

pull1D
Entries 87
Mean 0.01767
Std Dev 0.9745

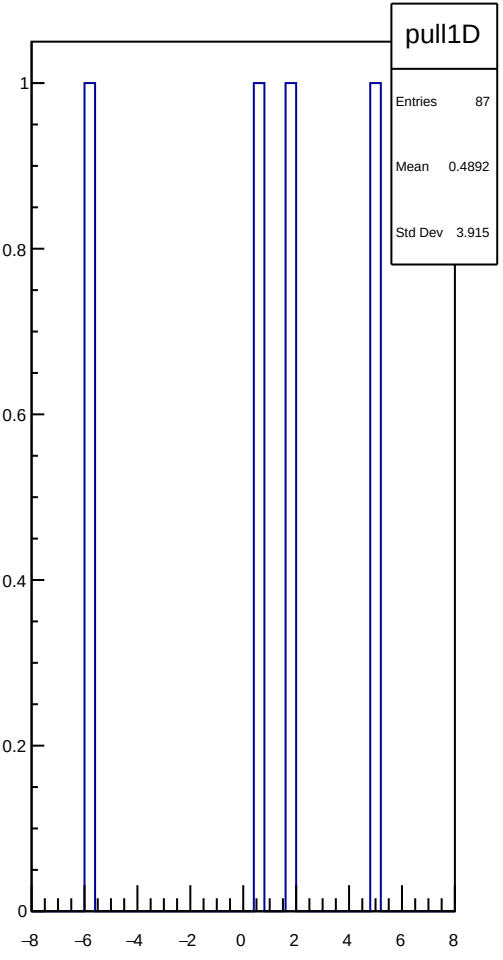

diff_bpmtargetdiffY_rms vs run
χ² / ndf 2451 / 86
p0 597.8 ± 0.4563
700
680
660
640
620
600
580
560

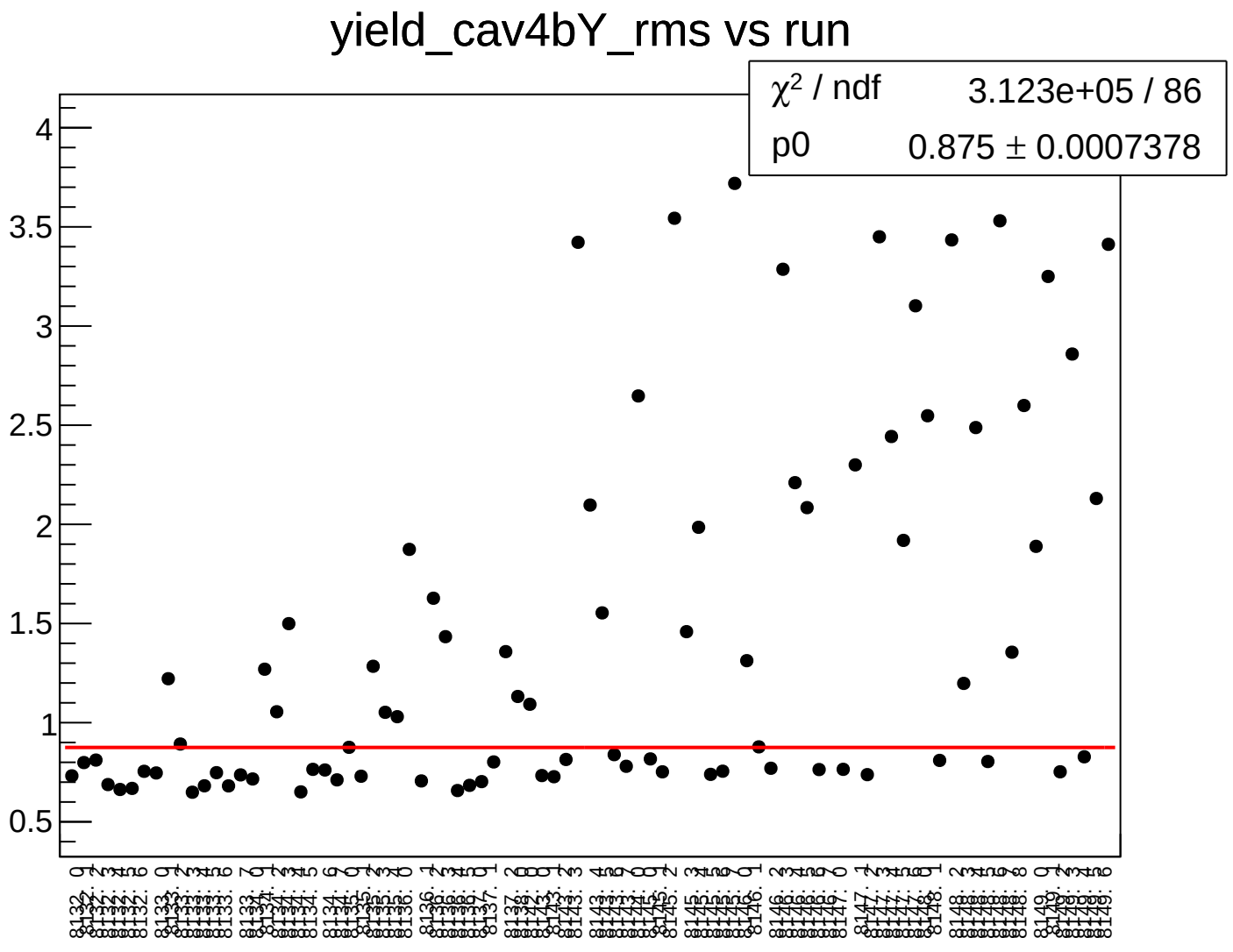

yield_cav4bX_mean vs run
χ² / ndf 6.582e+05 / 86
p0 −30.04 ± 0.00375
−26
−28
−30
−32
−34
−36
pull
Entries 87
Mean −435.6
Std Dev 0
150
100
50
0
−50
−100
−150
−200

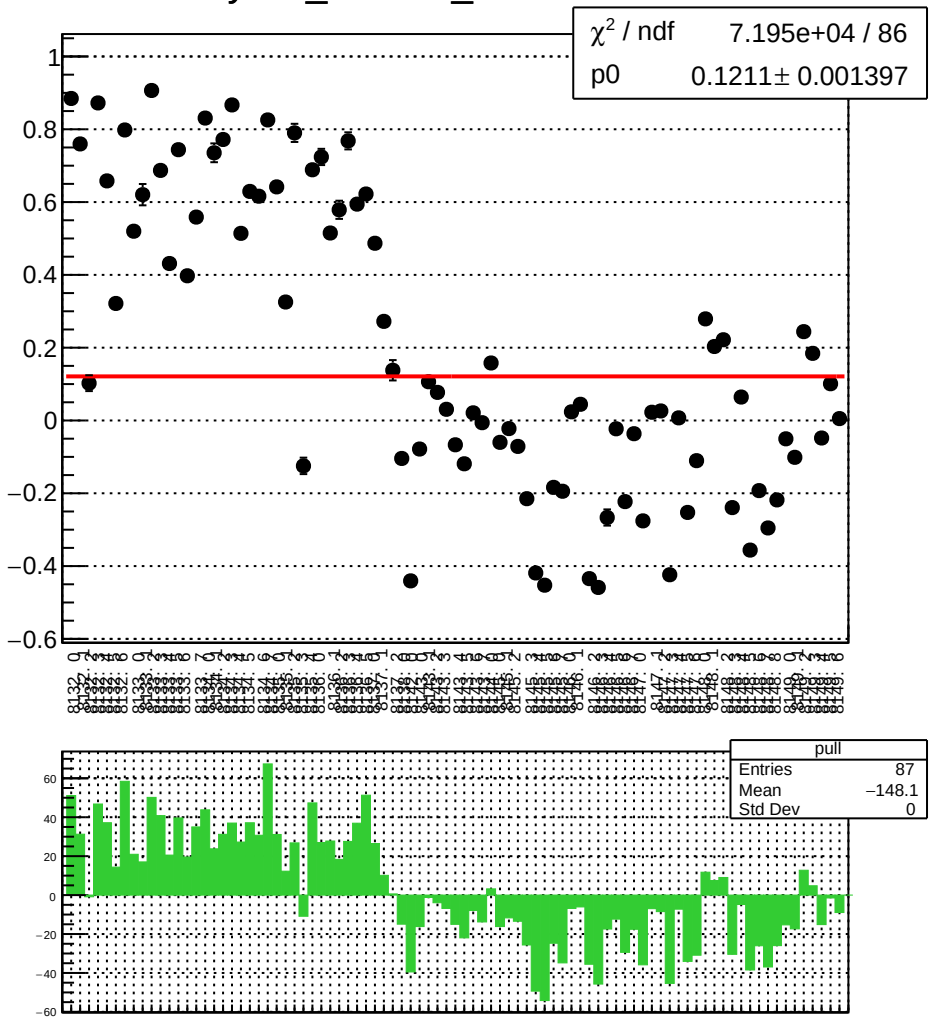

pull1D
Entries 87
Mean 1.426
Std Dev 4.371
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

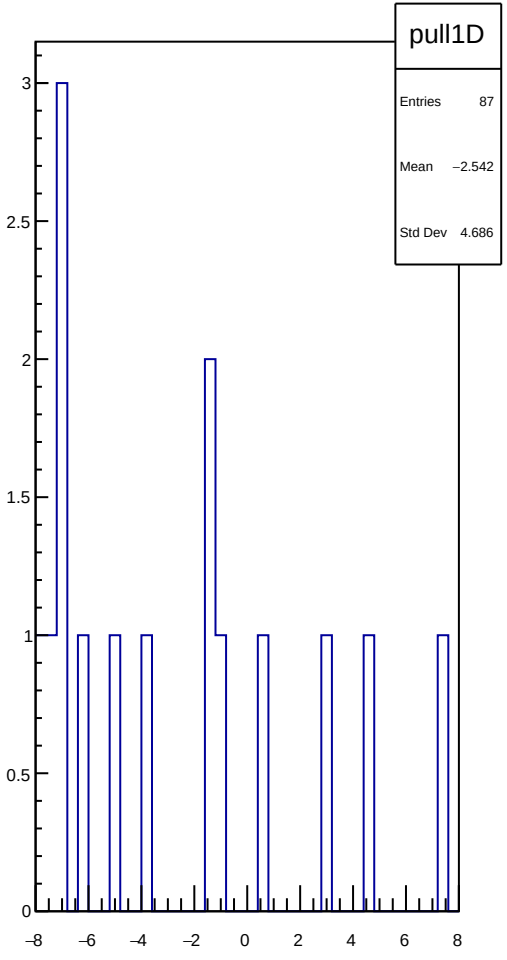

yield_cav4bX_rms vs run
χ^2 / ndf 6.677e+04 / 86
p0 3.408 ± 0.002652
7
6
5
4
3
2

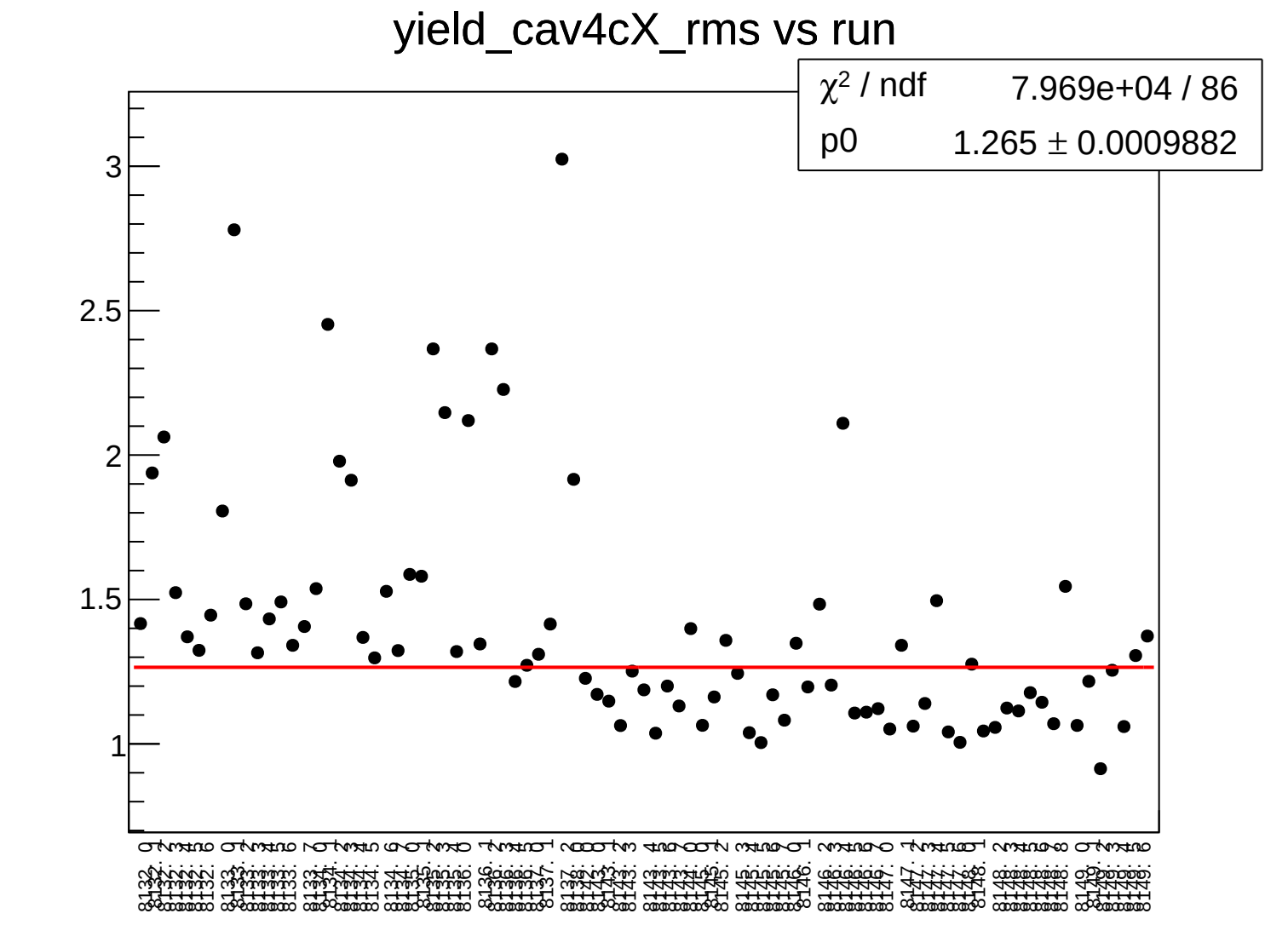

yield_cav4bY_mean vs run
χ² / ndf 1.708e+06 / 86
p0 −65.54 ± 0.001043
pull
Entries 87
Mean 48.24
Std Dev 44.94

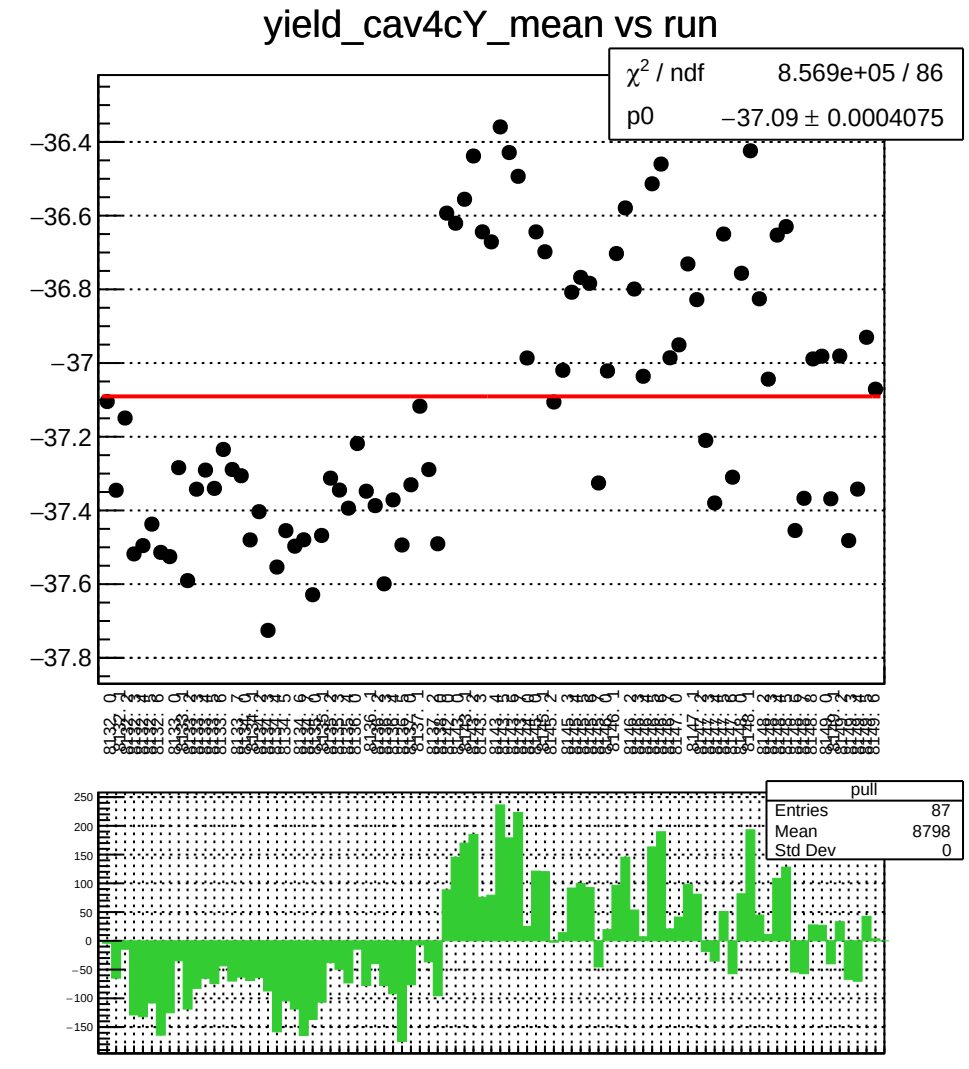

pull1D
Entries 87
Mean 0.4892
Std Dev 3.915

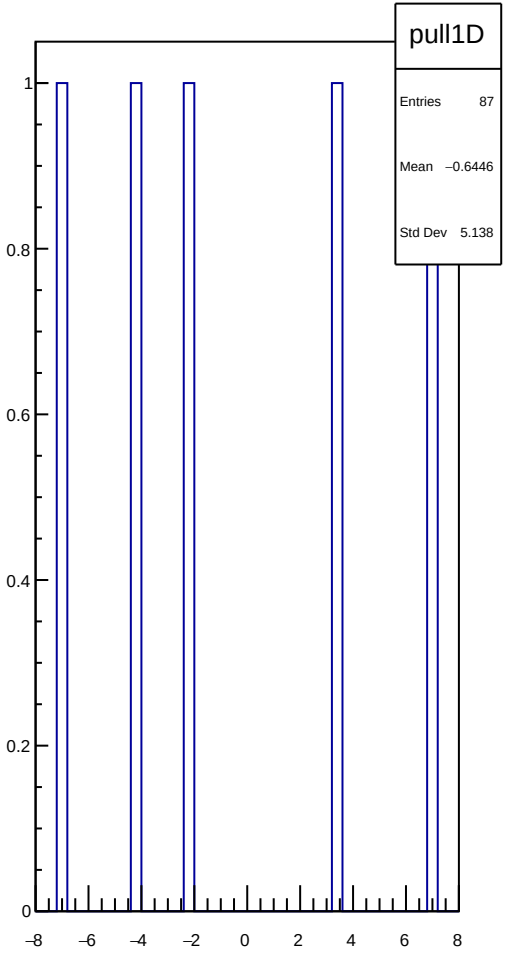

yield_cav4bY_rms vs run
χ² / ndf 3.123e+05 / 86
p0 0.875 ± 0.0007378
4
3.5
3
2.5
2
1.5
1
0.5

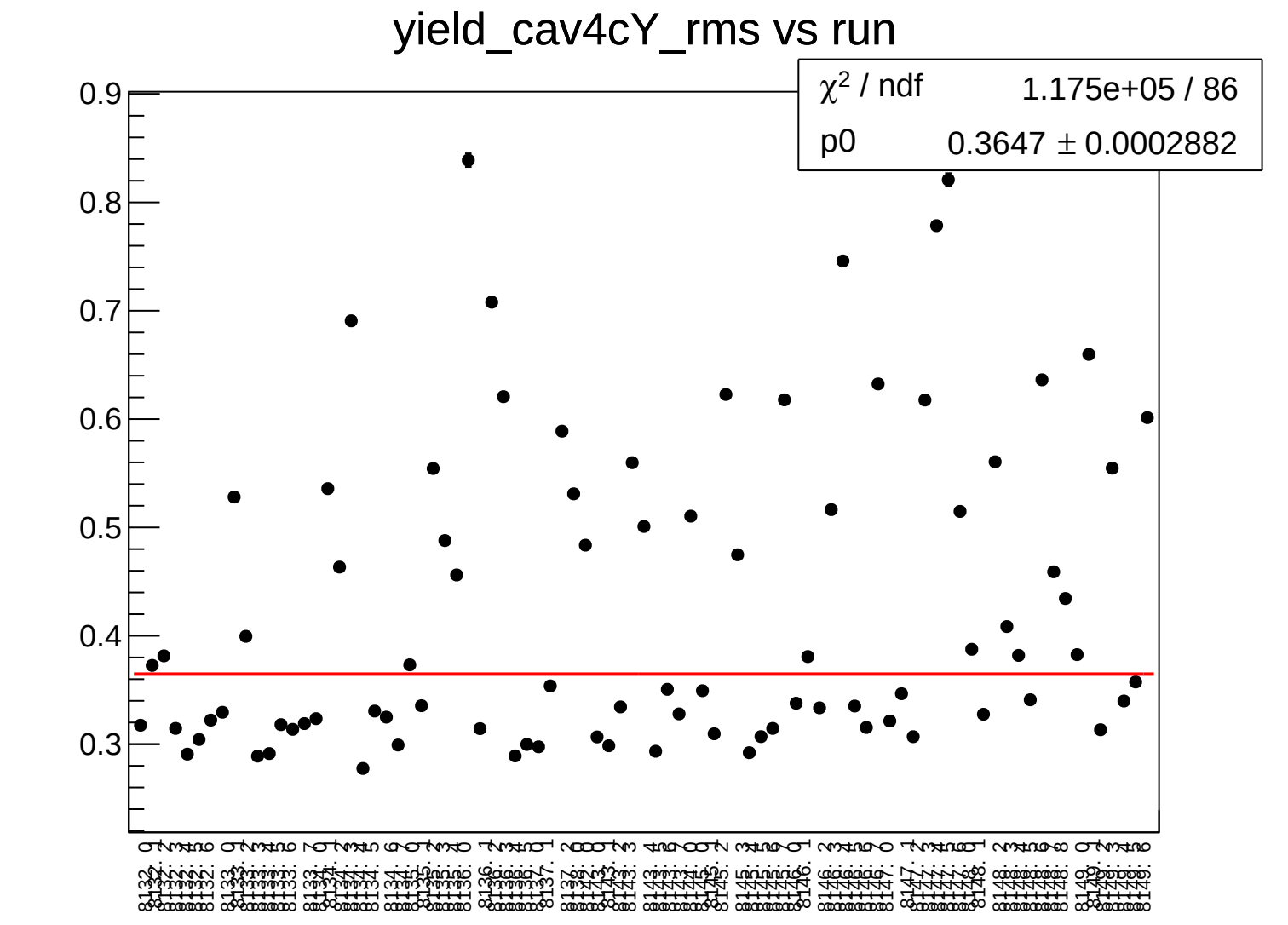

yield_cav4cX_mean vs run
χ² / ndf 7.195e+04 / 86
p0 0.1211± 0.001397
pull
Entries 87
Mean −148.1
Std Dev 0

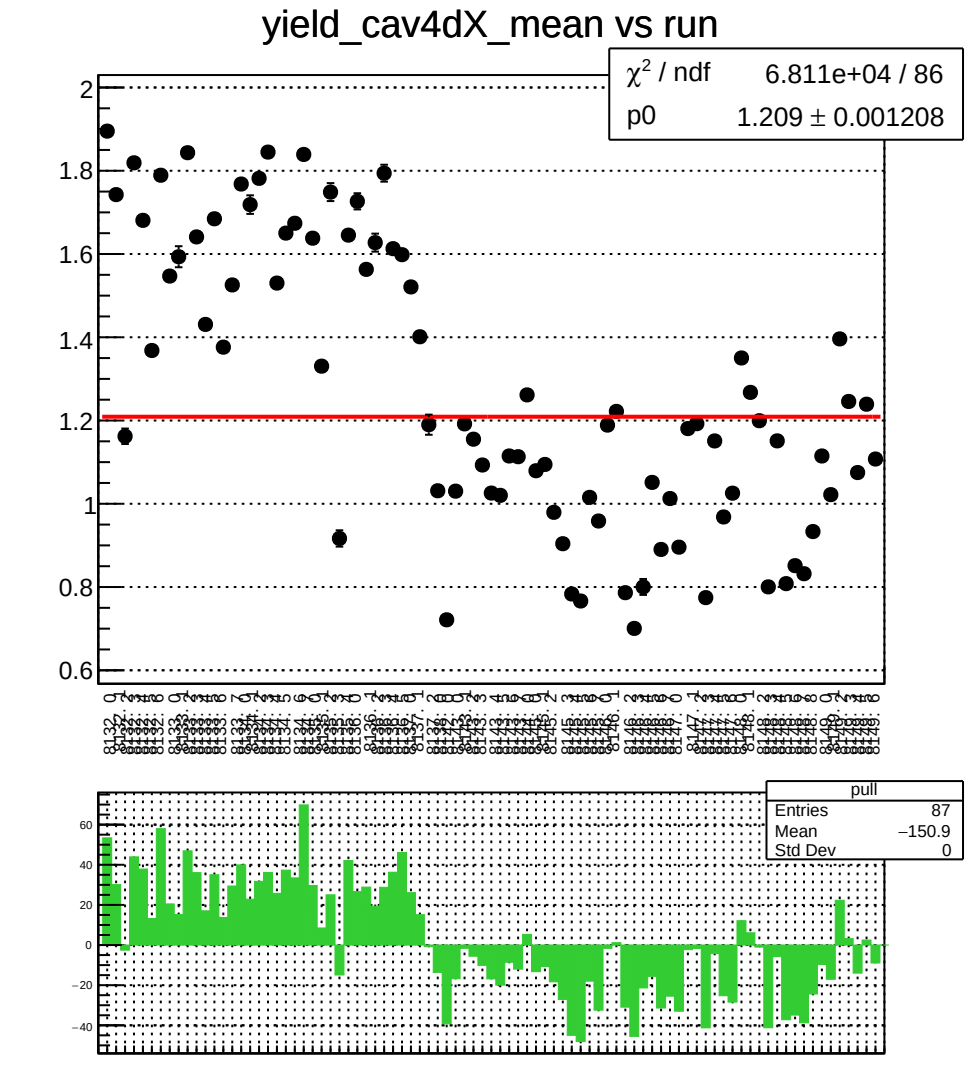

pull1D
Entries 87
Mean −2.542
Std Dev 4.686

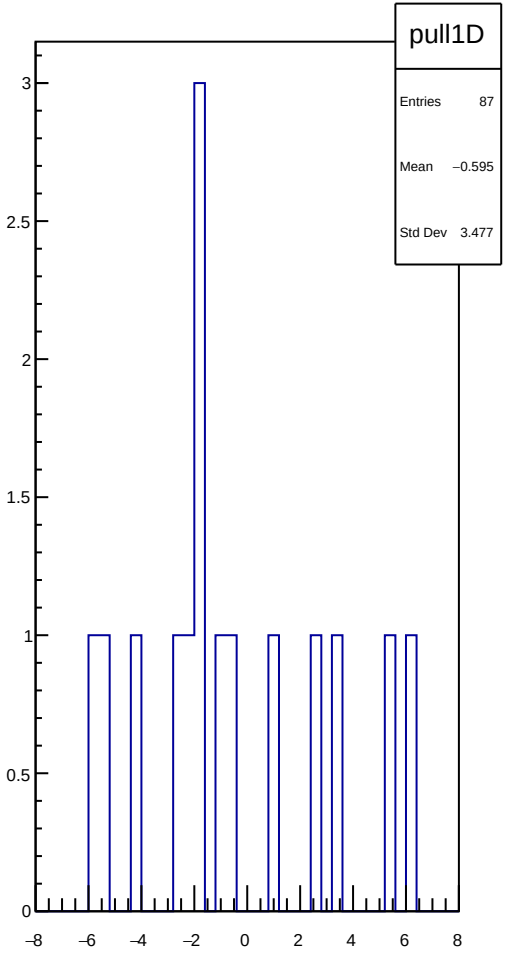

yield_cav4cX_rms vs run
χ² / ndf 7.969e+04 / 86
p0 1.265 ± 0.0009882
3
2.5
2
1.5
1

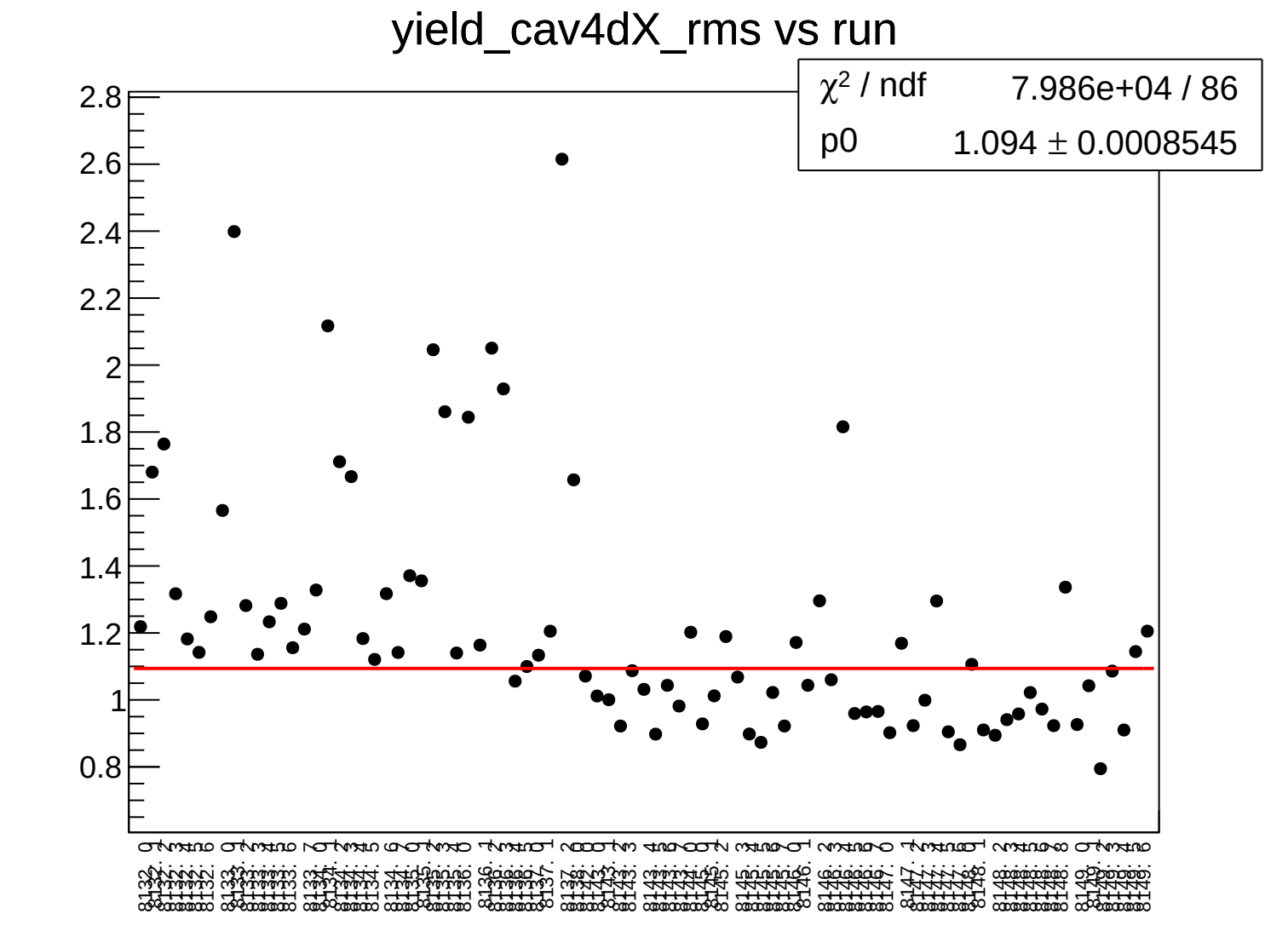

yield_cav4cY_mean vs run
χ² / ndf 8.569e+05 / 86
p0 −37.09 ± 0.0004075
−36.4
−36.6
−36.8
−37
−37.2
−37.4
−37.6
−37.8
pull
Entries 87
Mean 8798
Std Dev 0
250
200
150
100
50
0
−50
−100
−150

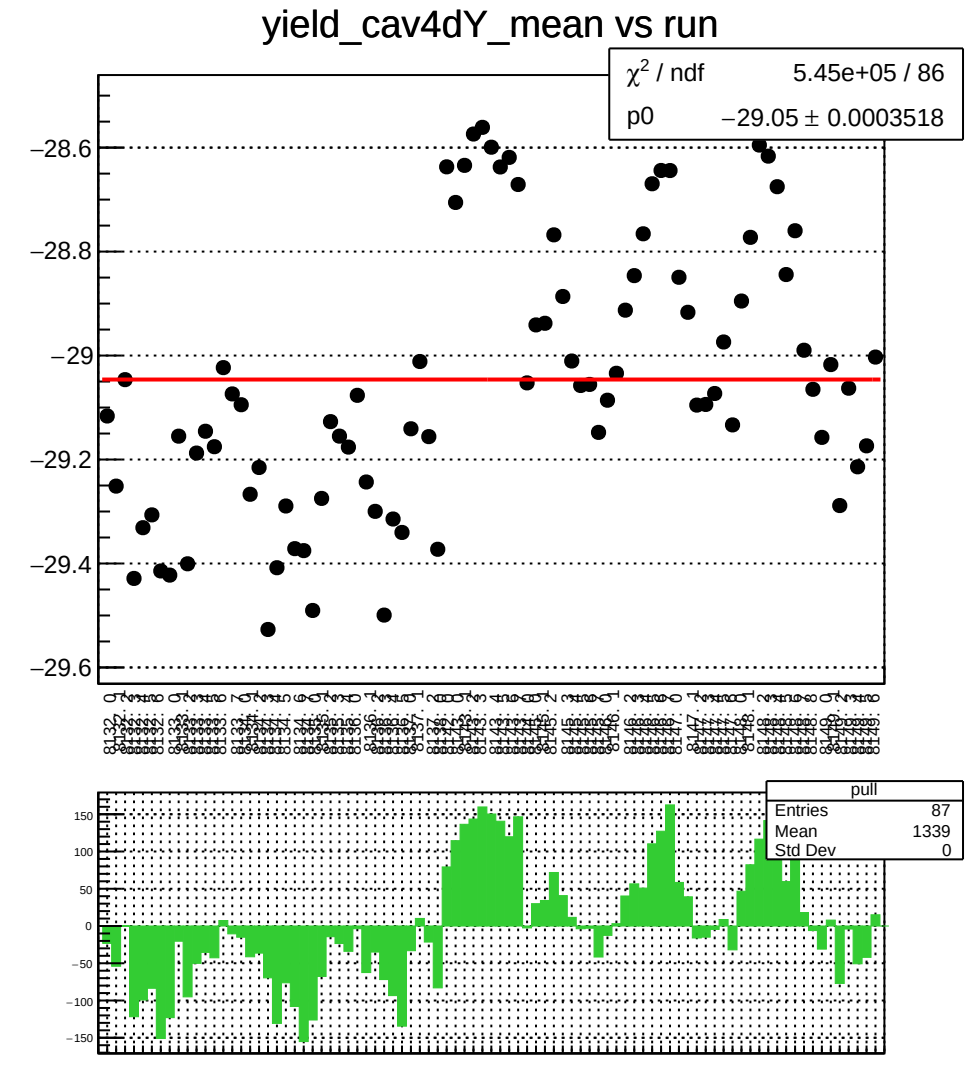

pull1D
Entries 87
Mean −0.6446
Std Dev 5.138
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

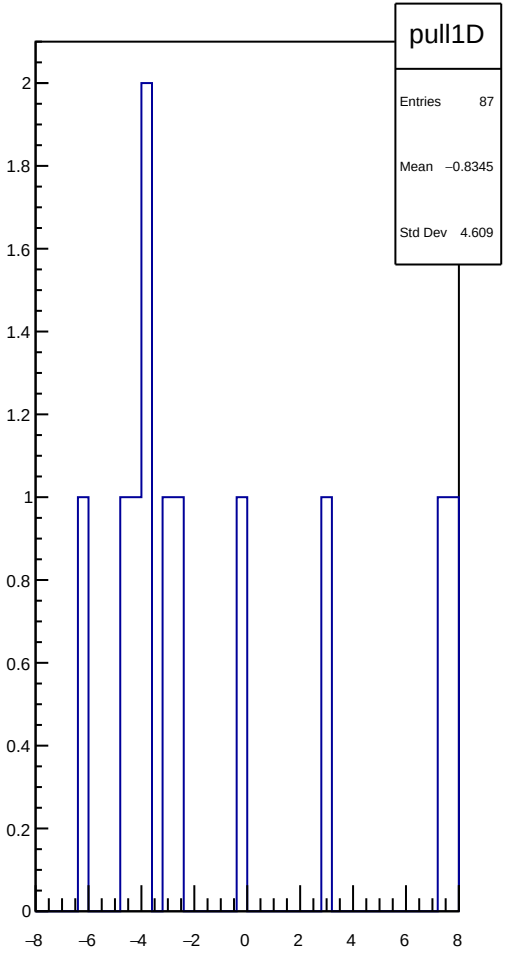

yield_cav4cY_rms vs run
χ^2 / ndf 1.175e+05 / 86
p0 0.3647 ± 0.0002882
0.9
0.8
0.7
0.6
0.5
0.4
0.3

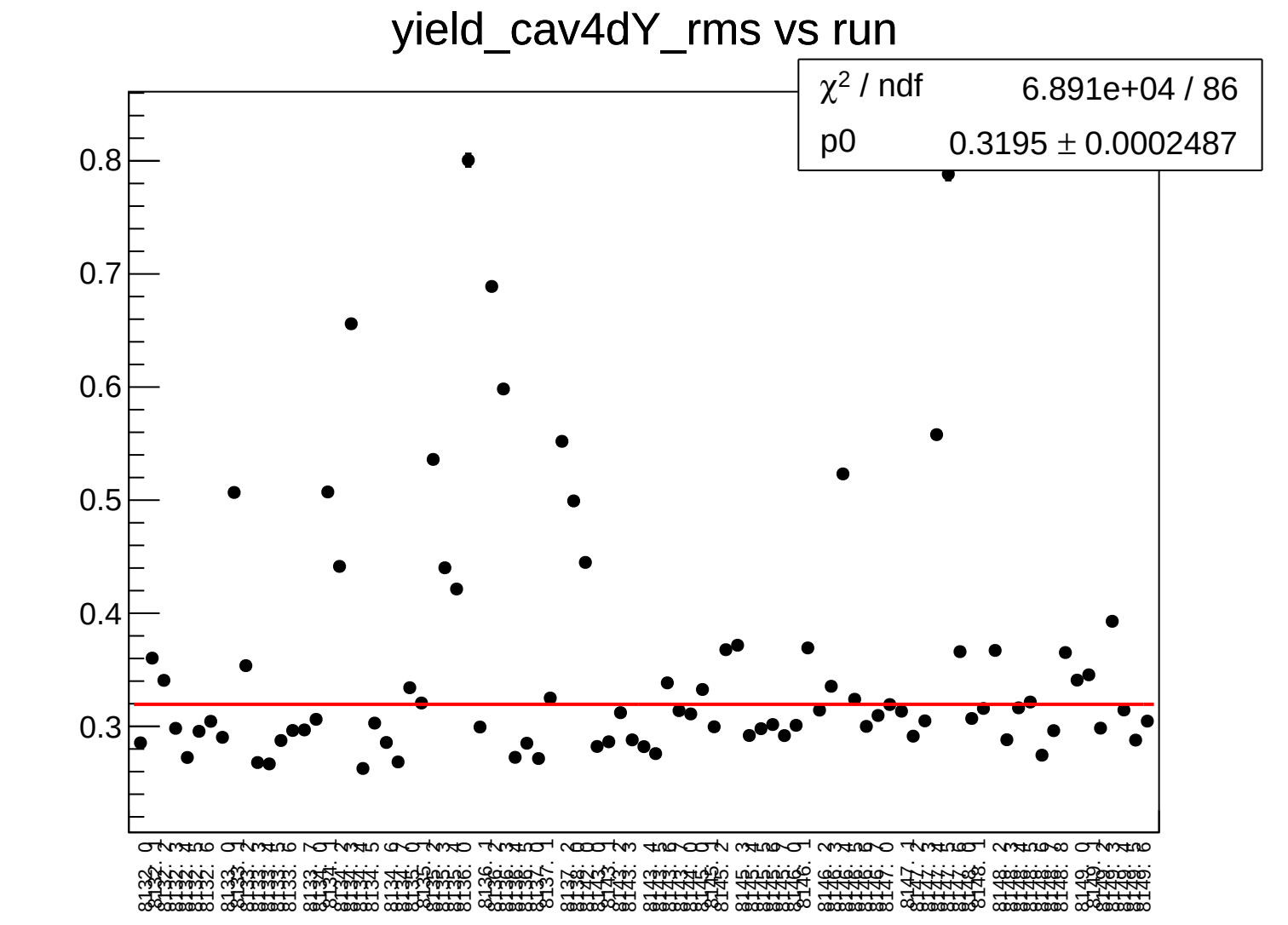

yield_cav4dX_mean vs run
χ² / ndf 6.811e+04 / 86
p0 1.209 ± 0.001208
pull
Entries 87
Mean −150.9
Std Dev 0

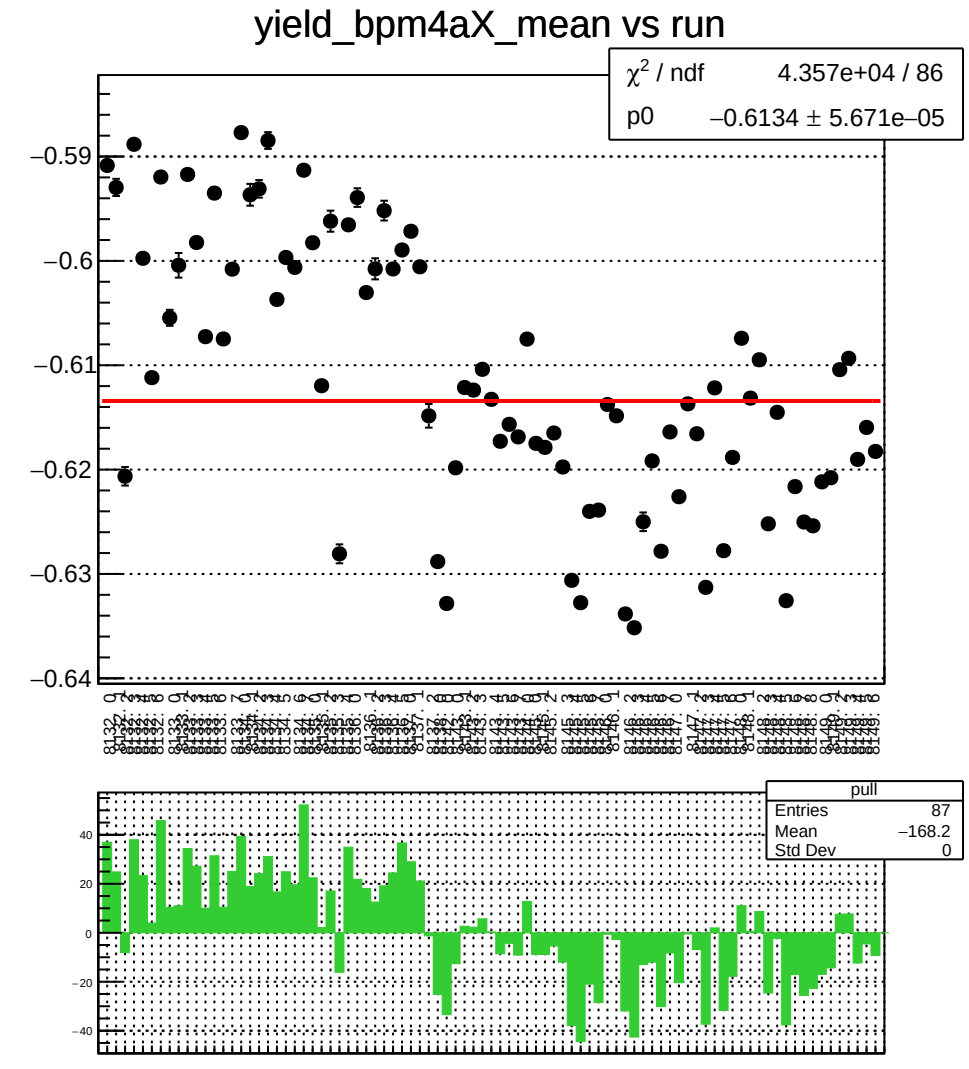

pull1D
Entries 87
Mean −0.595
Std Dev 3.477

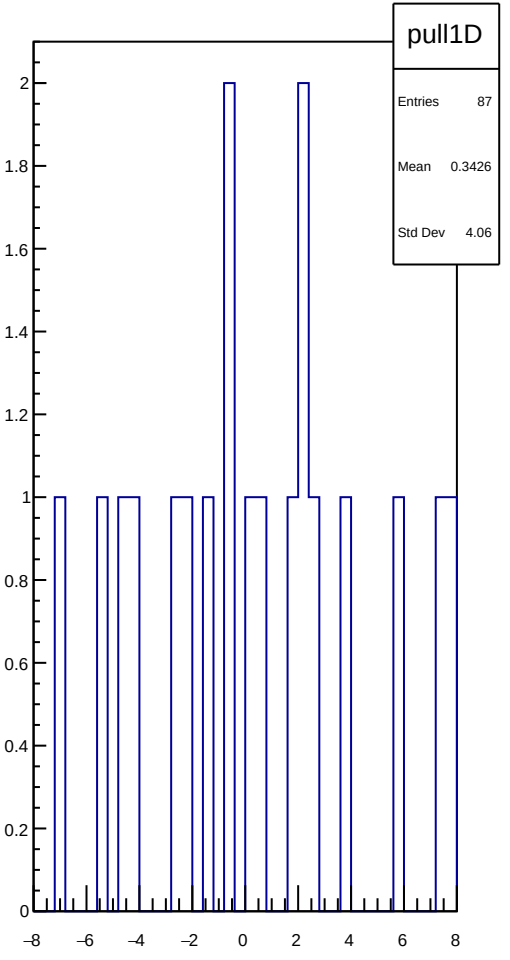

yield_cav4dX_rms vs run
χ² / ndf 7.986e+04 / 86
p0 1.094 ± 0.0008545
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8


yield_cav4dY_mean vs run
χ² / ndf 5.45e+05 / 86
p0 −29.05 ± 0.0003518
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 87
Mean 1339
Std Dev 0
150
100
50
0
−50
−100
−150

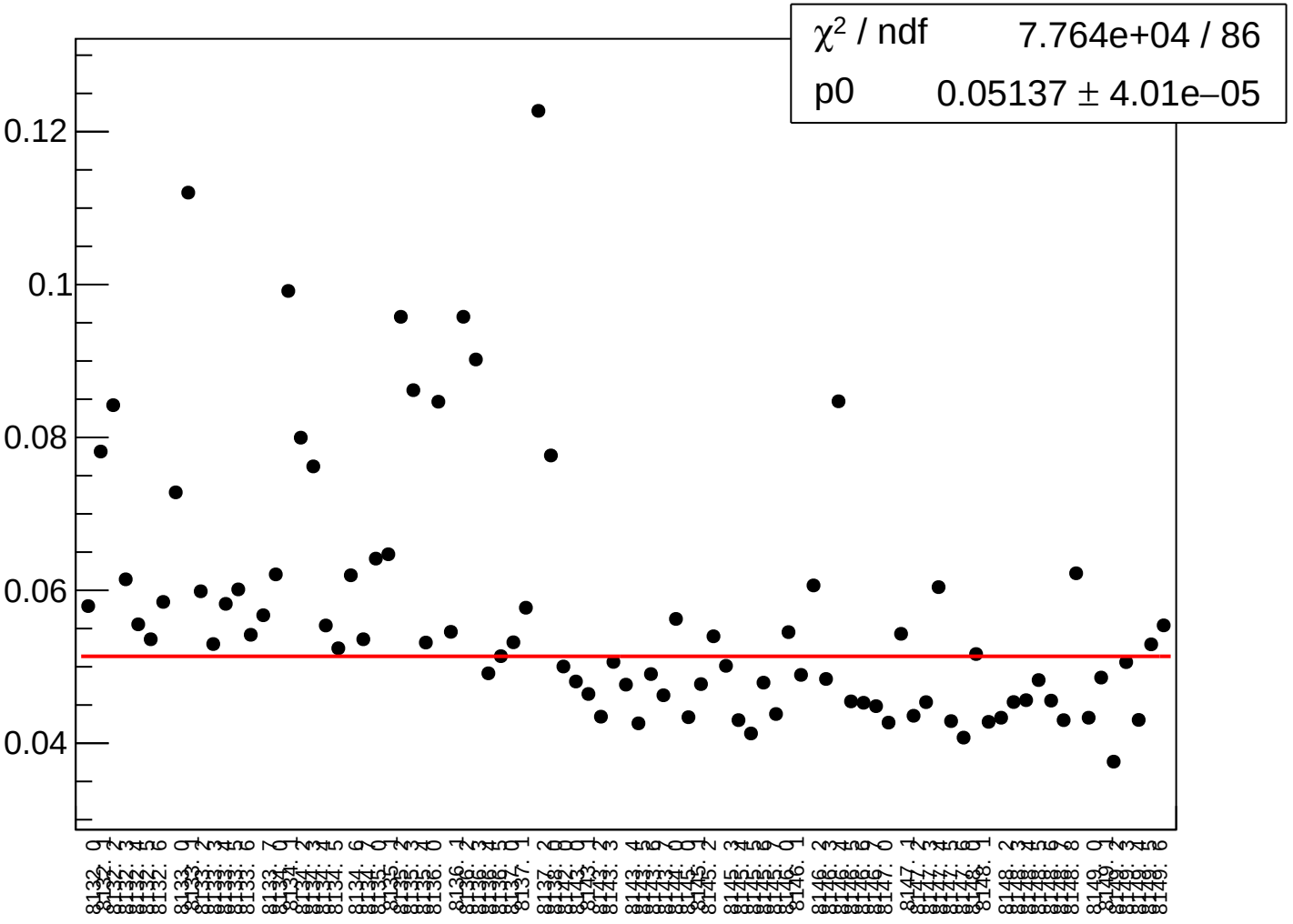

pull1D
Entries 87
Mean −0.8345
Std Dev 4.609
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

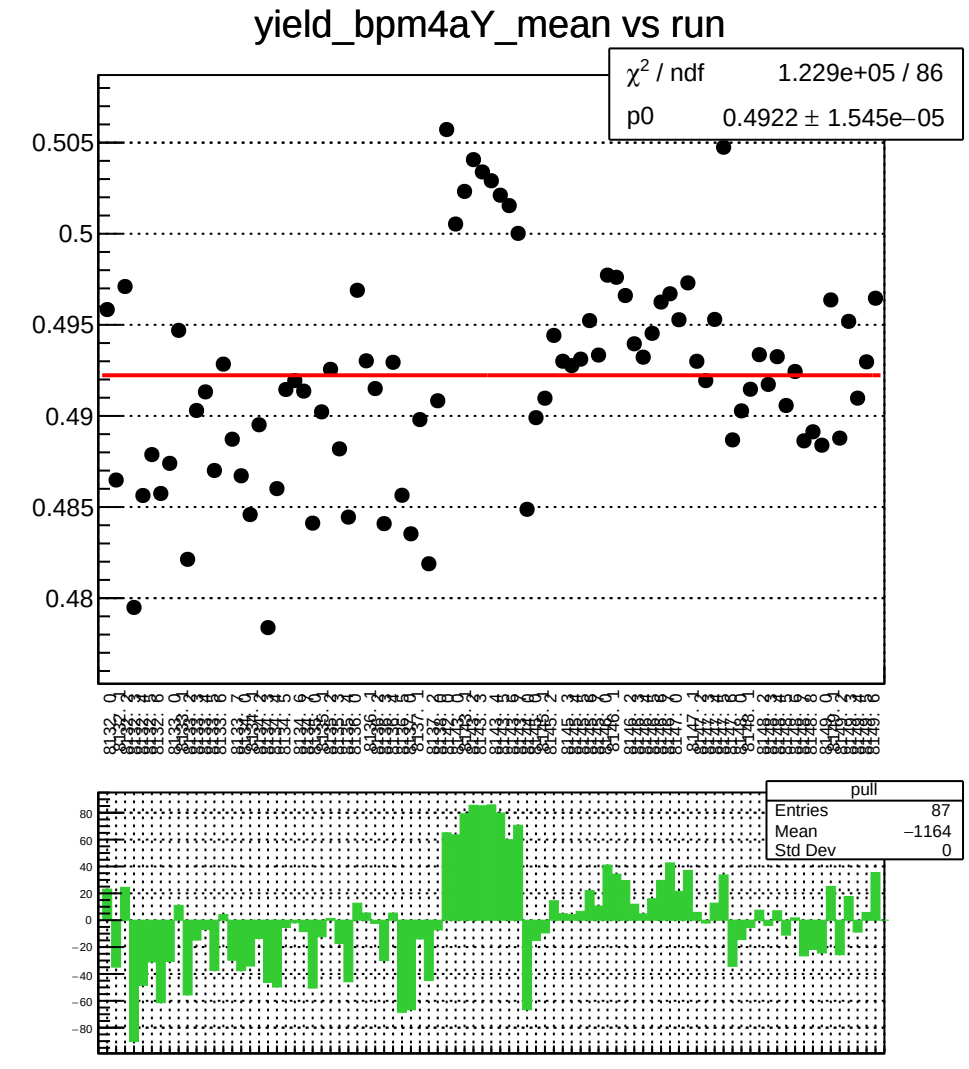

yield_cav4dY_rms vs run
χ² / ndf 6.891e+04 / 86
p0 0.3195 ± 0.0002487
0.8
0.7
0.6
0.5
0.4
0.3

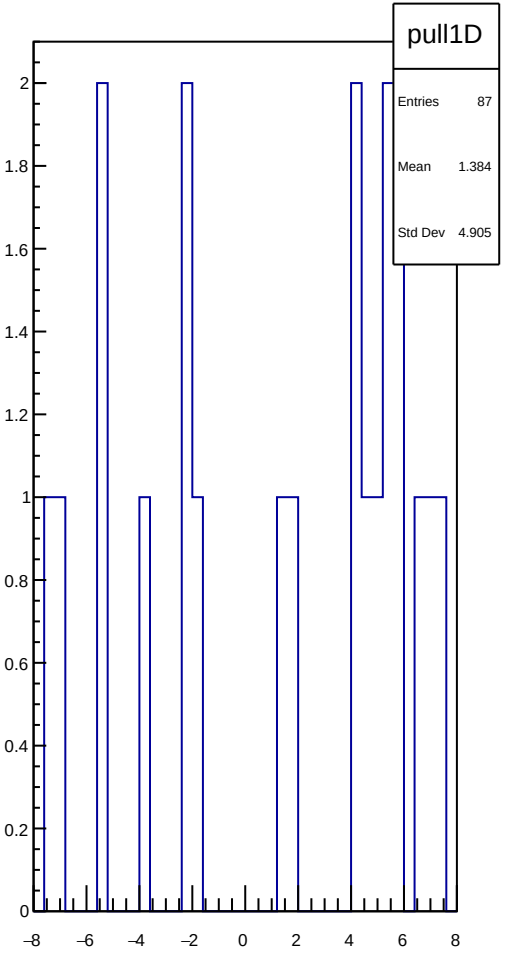

yield_bpm4aX_mean vs run
χ² / ndf 4.357e+04 / 86
p0 −0.6134 ± 5.671e−05
−0.59
−0.6
−0.61
−0.62
−0.63
−0.64
pull
Entries 87
Mean −168.2
Std Dev 0
40
20
0
−20
−40

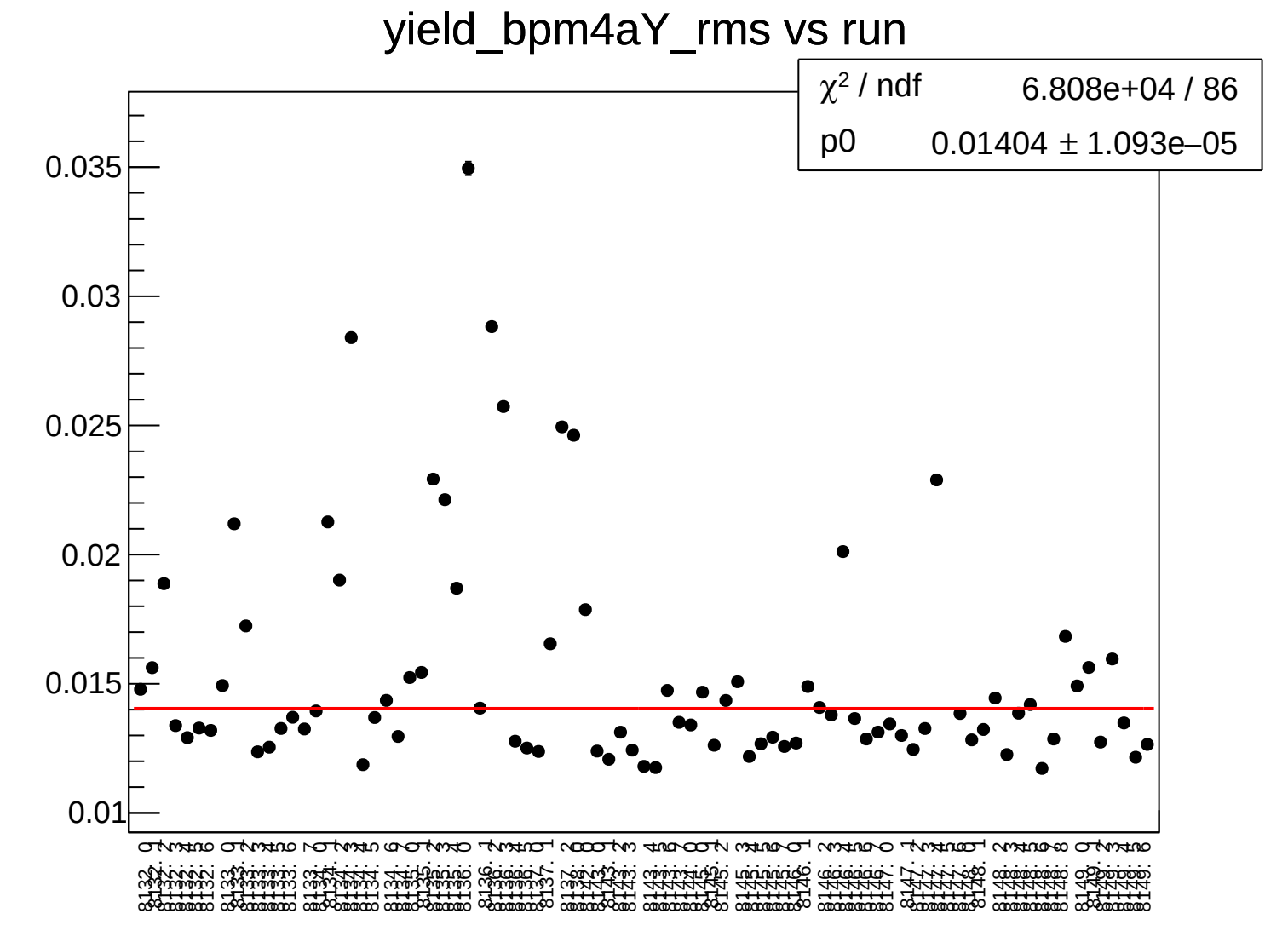

pull1D
Entries 87
Mean 0.3426
Std Dev 4.06
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

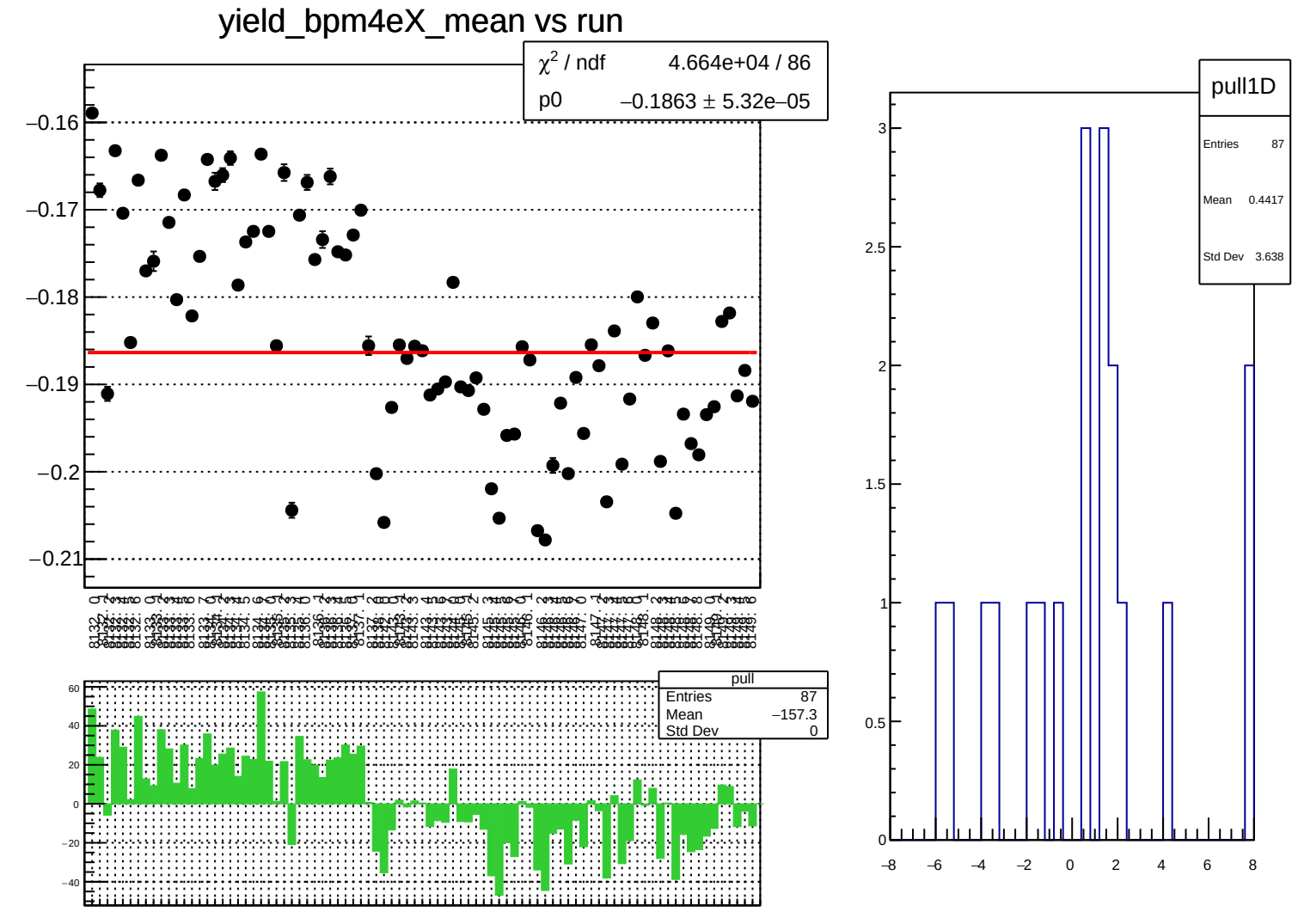
yield_bpm4aX_rms vs run



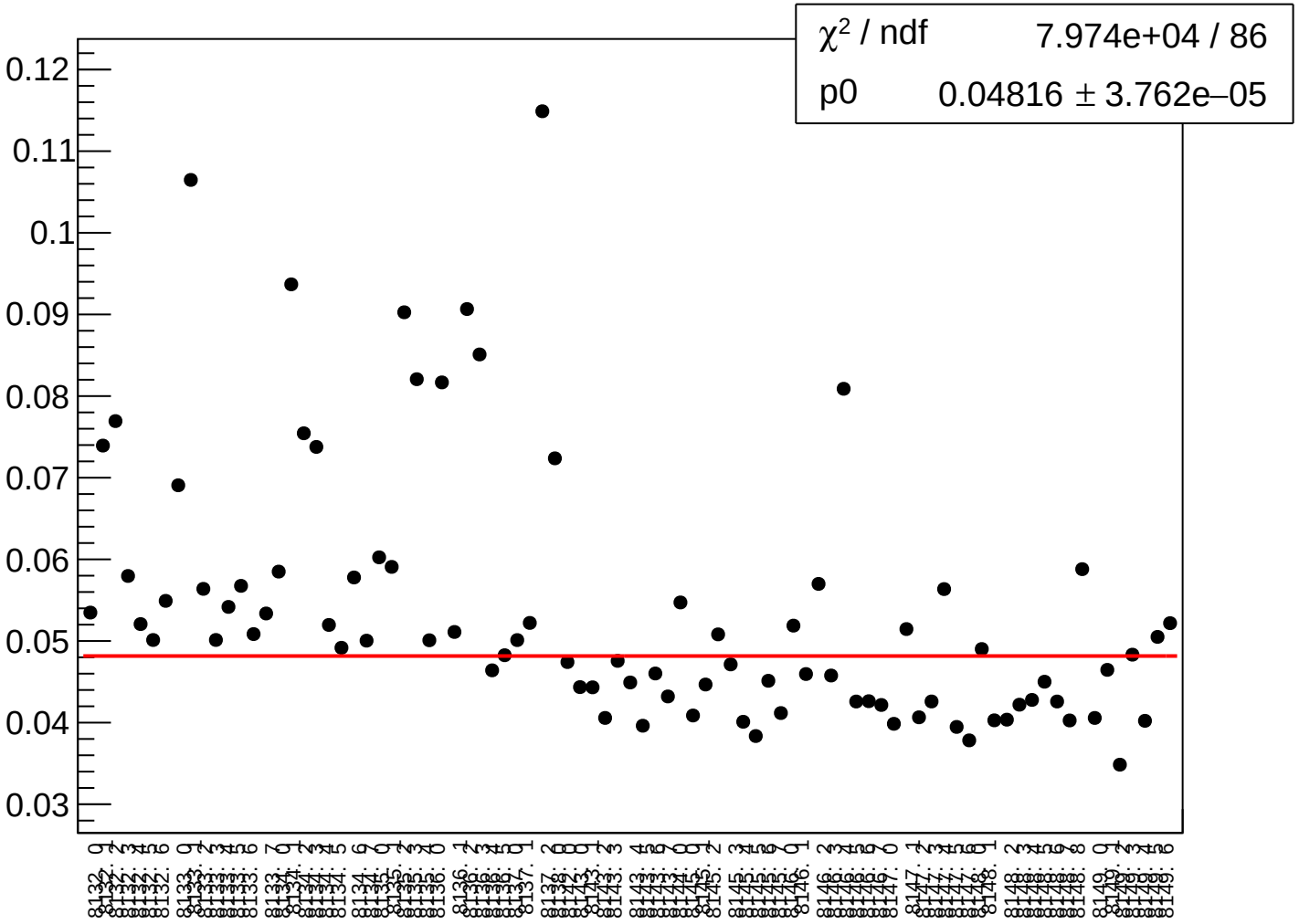

yield_bpm4aY_mean vs run
χ² / ndf 1.229e+05 / 86
p0 0.4922 ± 1.545e−05
0.505
0.5
0.495
0.49
0.485
0.48
pull
Entries 87
Mean −1164
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80

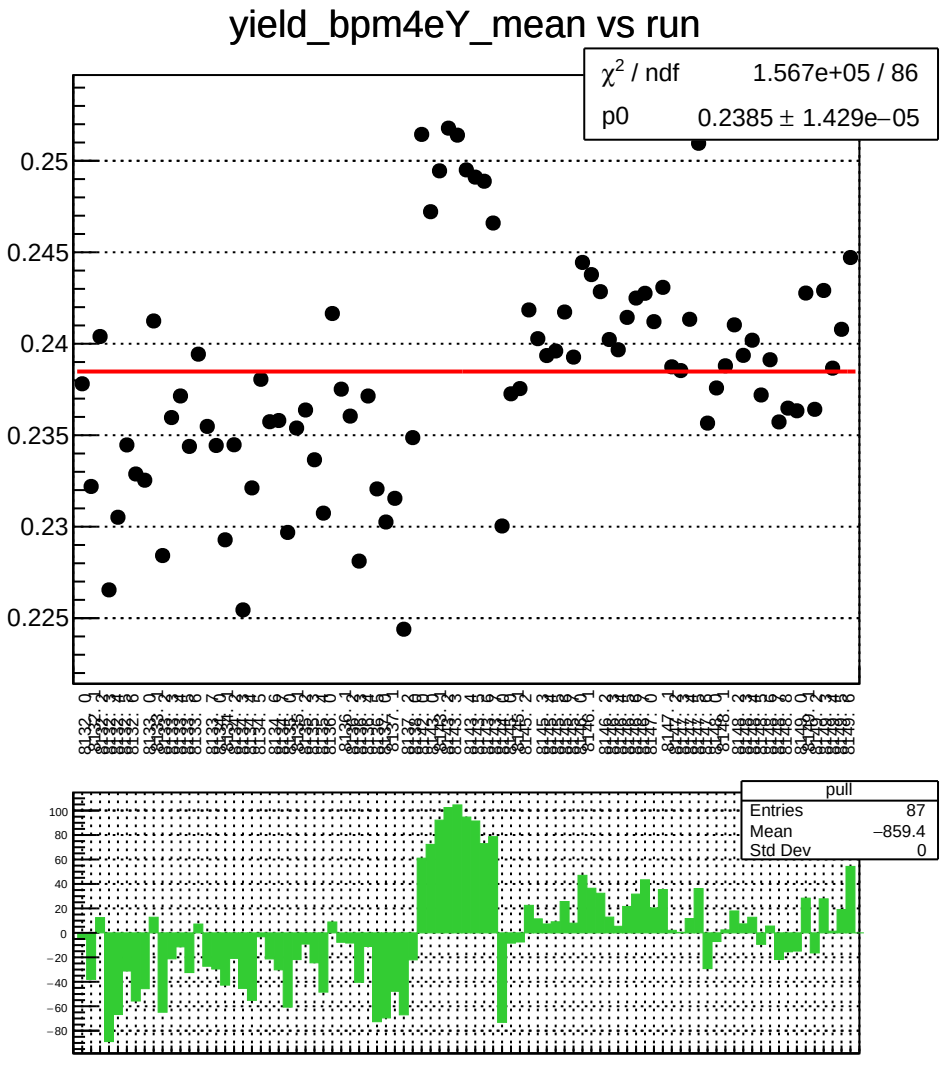

pull1D
Entries 87
Mean 1.384
Std Dev 4.905
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

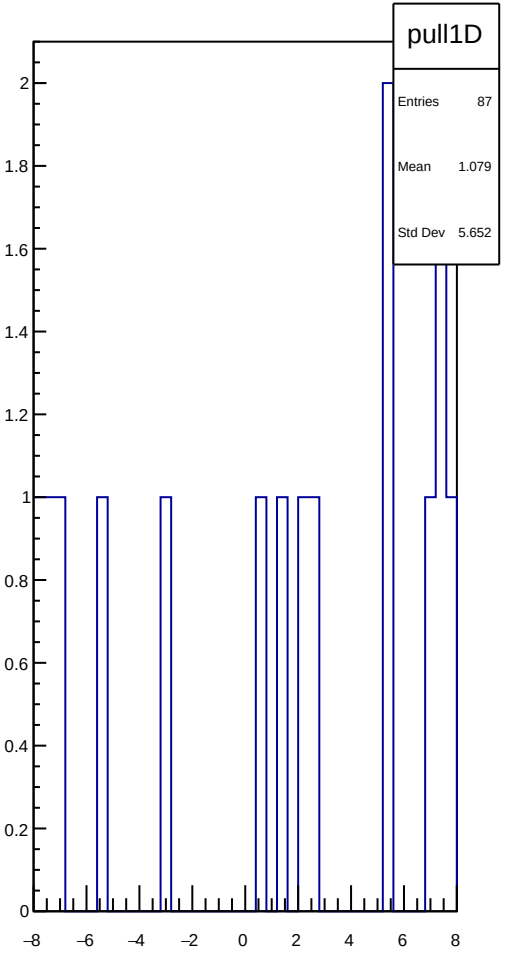

yield_bpm4aY_rms vs run
χ² / ndf 6.808e+04 / 86
p0 0.01404 ± 1.093e–05
0.035
0.03
0.025
0.02
0.015
0.01

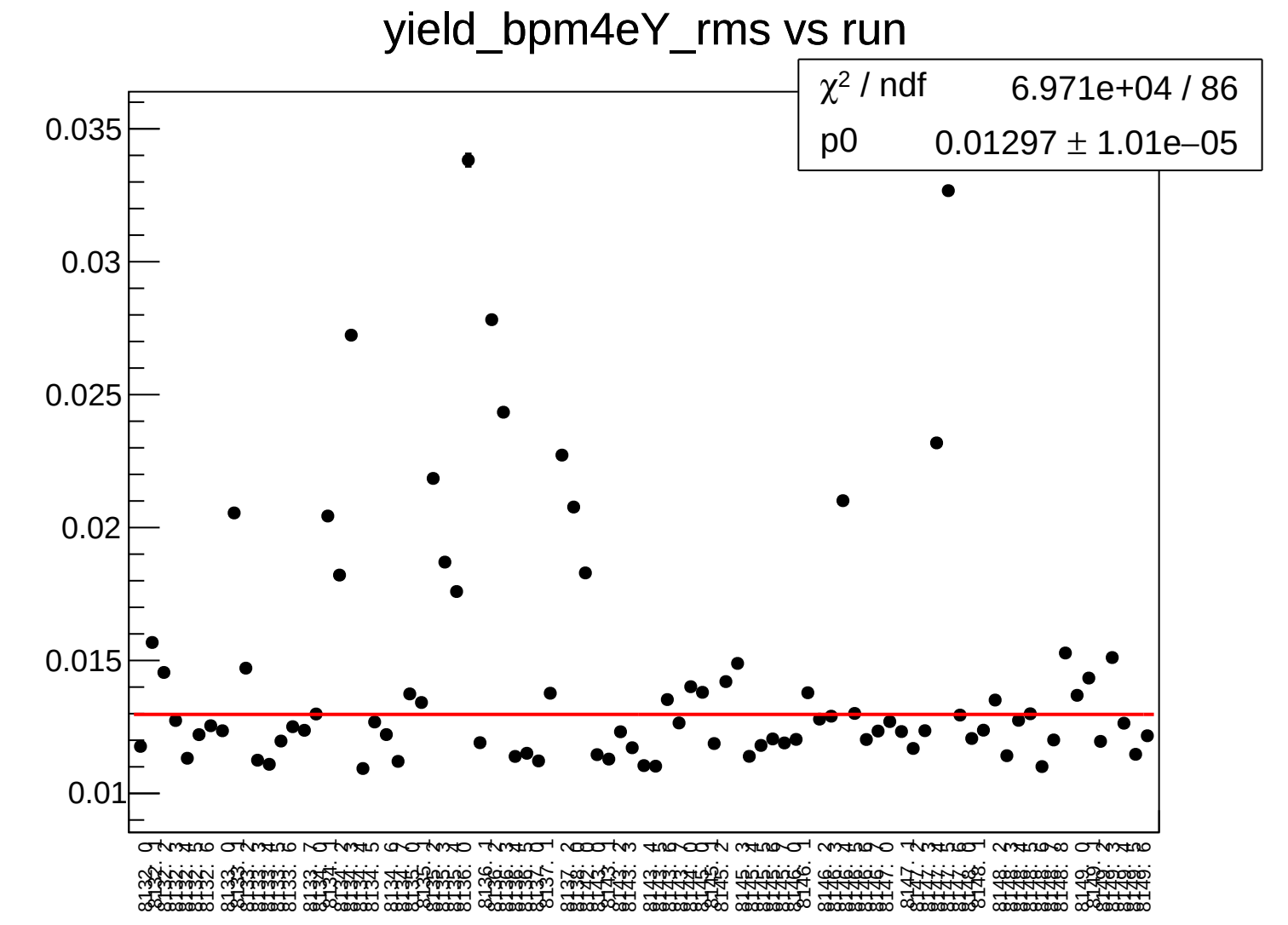

yield_bpm4eX_mean vs run
χ² / ndf 4.664e+04 / 86
p0 −0.1863 ± 5.32e−05
−0.16
−0.17
−0.18
−0.19
−0.2
−0.21
pull
Entries 87
Mean −157.3
Std Dev 0
60
40
20
0
−20
−40
pull1D
Entries 87
Mean 0.4417
Std Dev 3.638
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

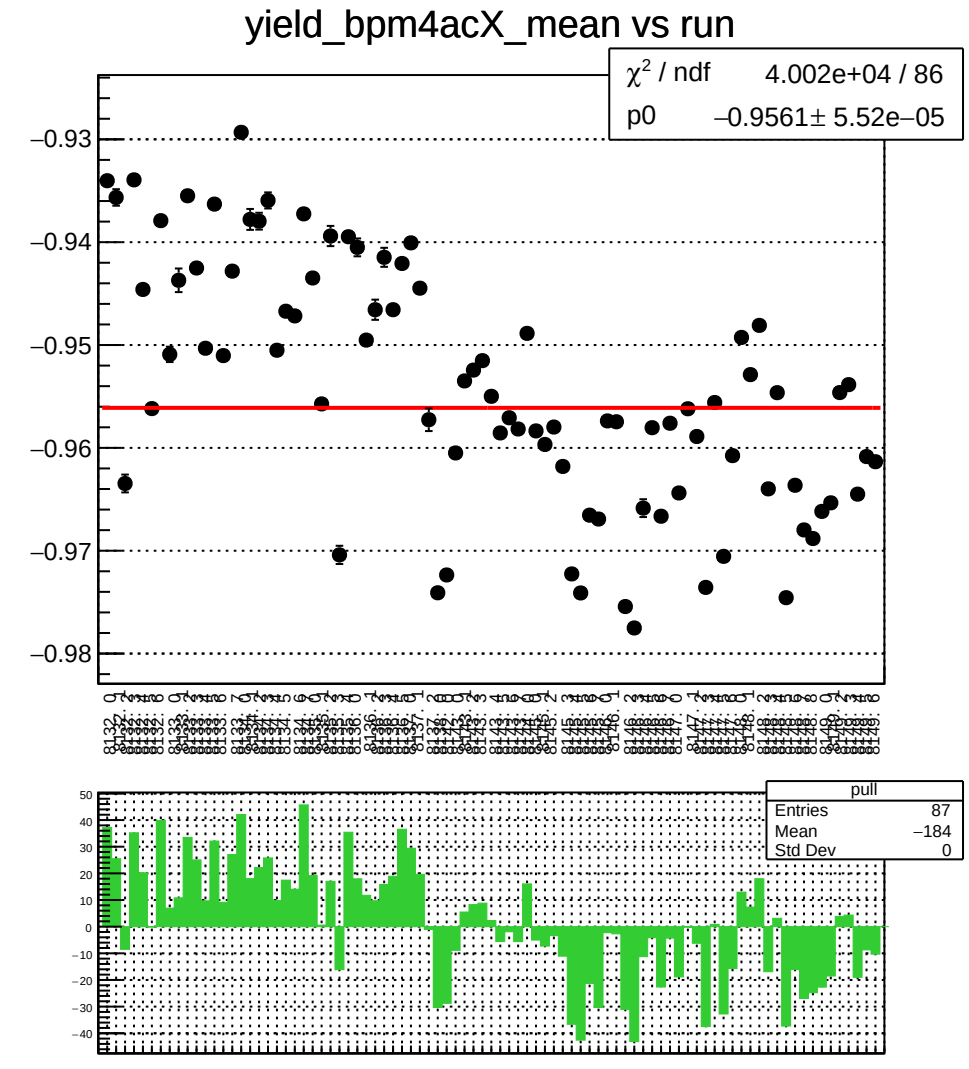
yield_bpm4eX_rms vs run

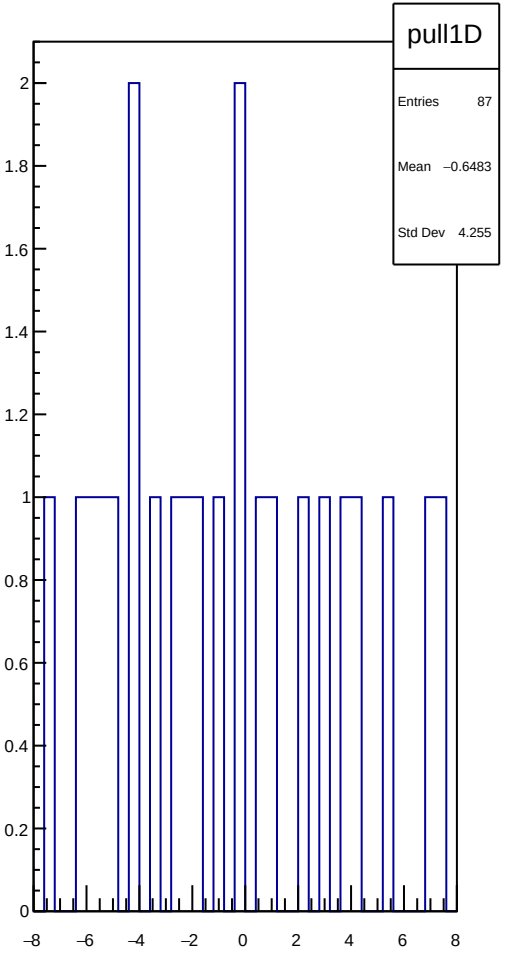


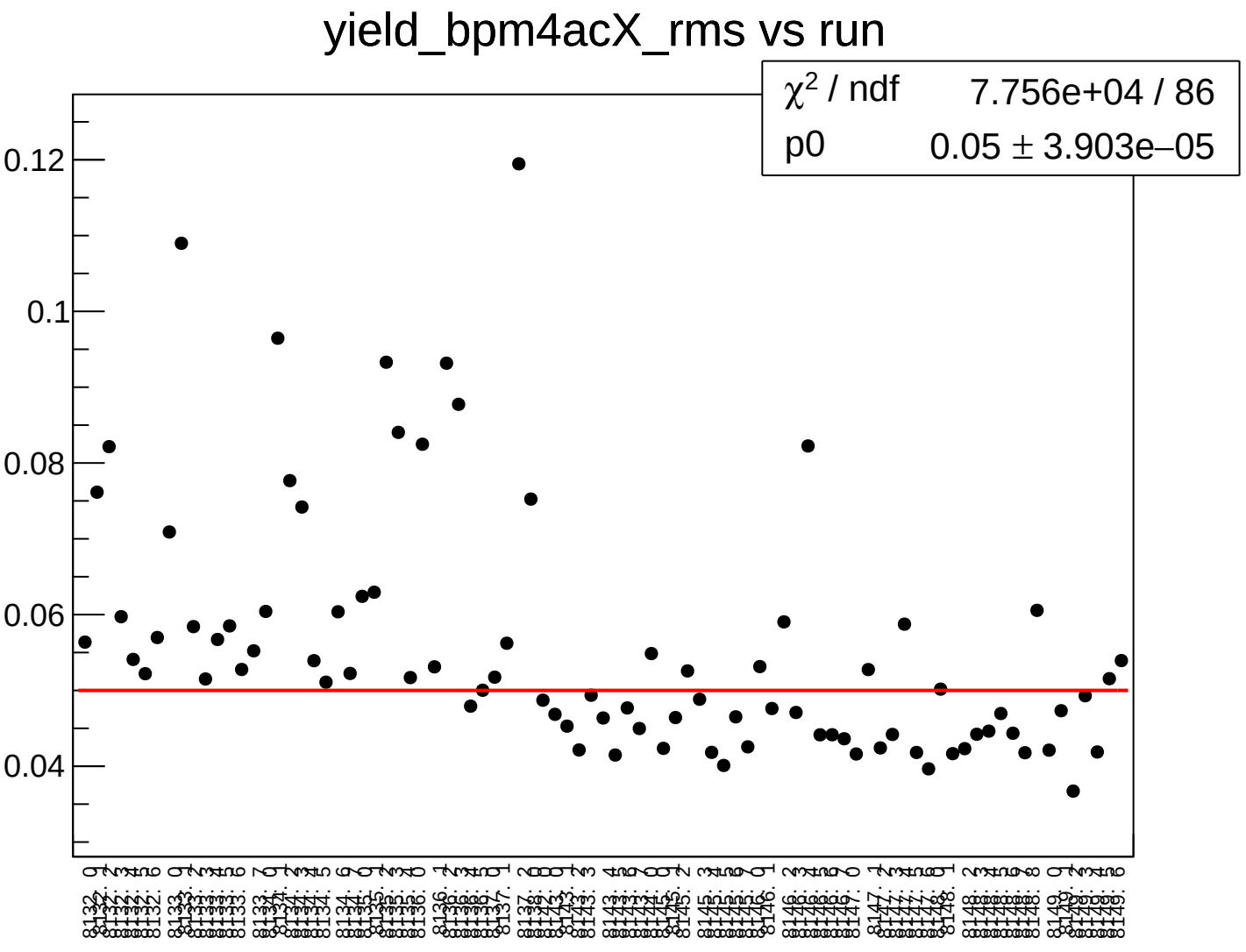

yield_bpm4eY_mean vs run
χ² / ndf 1.567e+05 / 86
p0 0.2385 ± 1.429e−05
0.25
0.245
0.24
0.235
0.23
0.225
pull
Entries 87
Mean −859.4
Std Dev 0
100
80
60
40
20
0
−20
−40
−60
−80

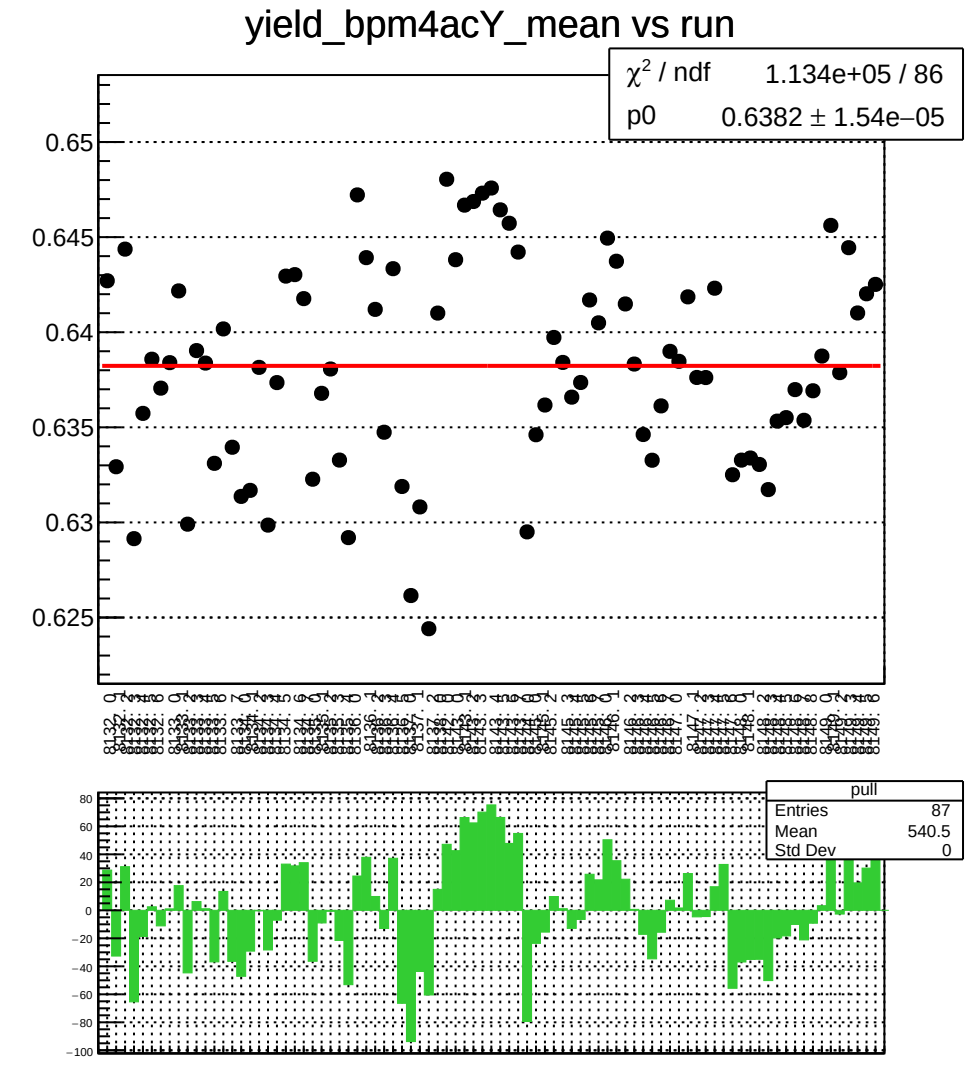

pull1D
Entries 87
Mean 1.079
Std Dev 5.652
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

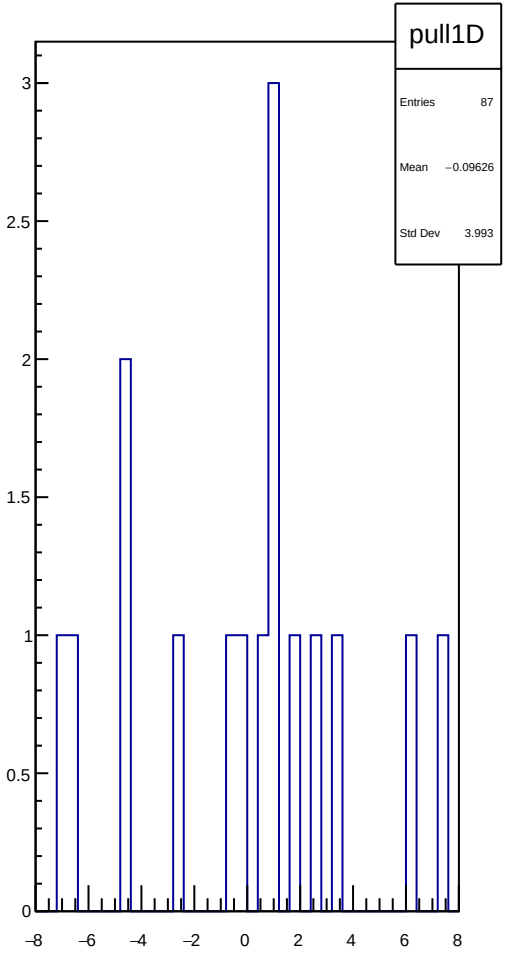

yield_bpm4eY_rms vs run
χ² / ndf 6.971e+04 / 86
p0 0.01297 ± 1.01e−05
0.035
0.03
0.025
0.02
0.015
0.01

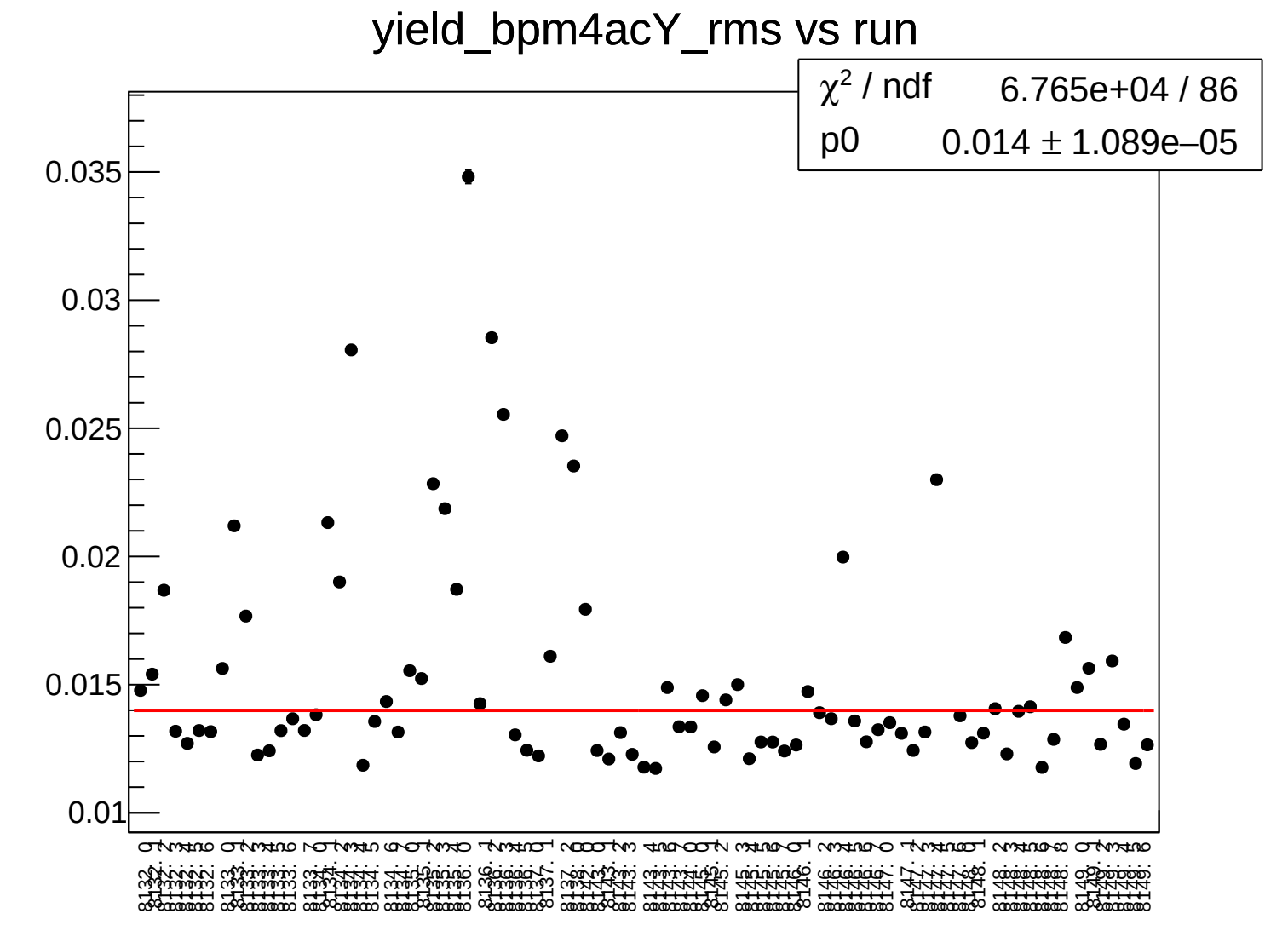

yield_bpm4acX_mean vs run
χ² / ndf 4.002e+04 / 86
p0 −0.9561± 5.52e−05
−0.93
−0.94
−0.95
−0.96
−0.97
−0.98
pull
Entries 87
Mean −184
Std Dev 0
50
40
30
20
10
0
−10
−20
−30
−40

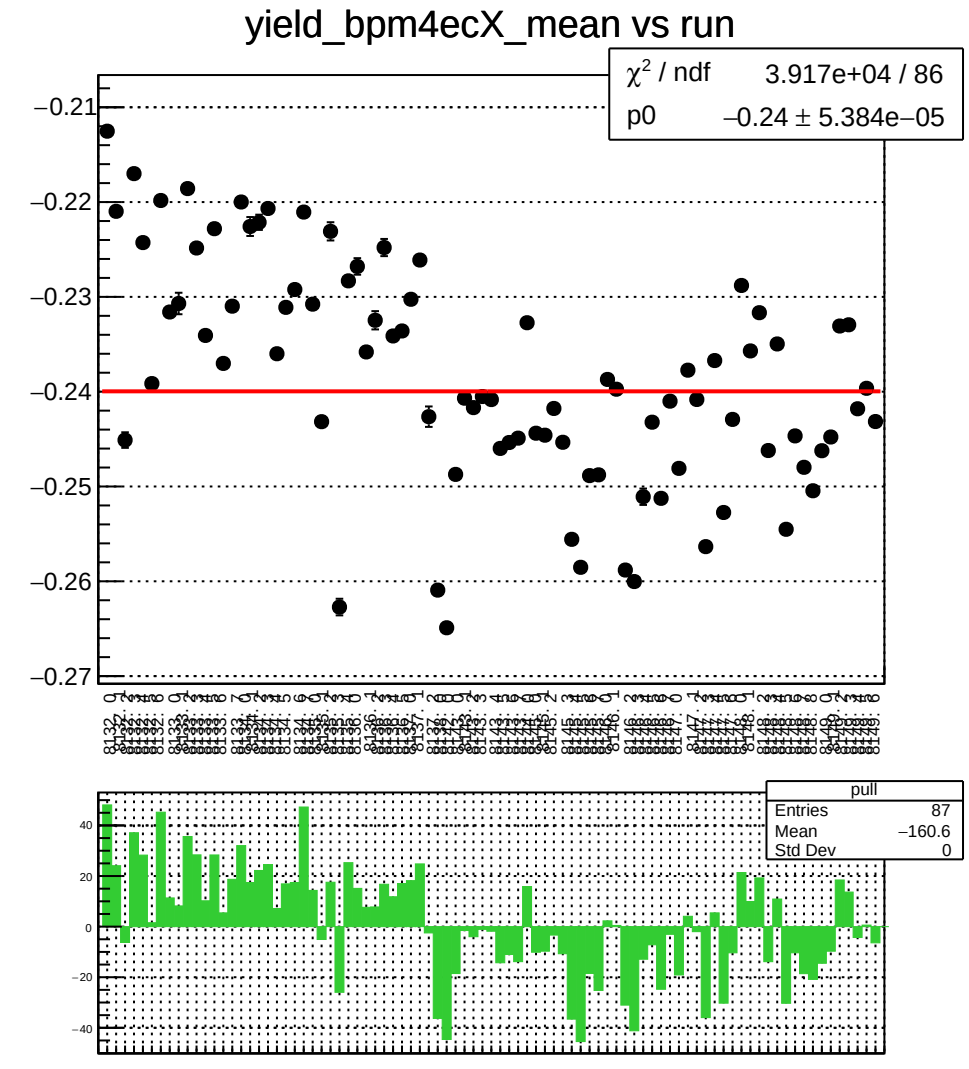

pull1D
Entries 87
Mean −0.6483
Std Dev 4.255
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

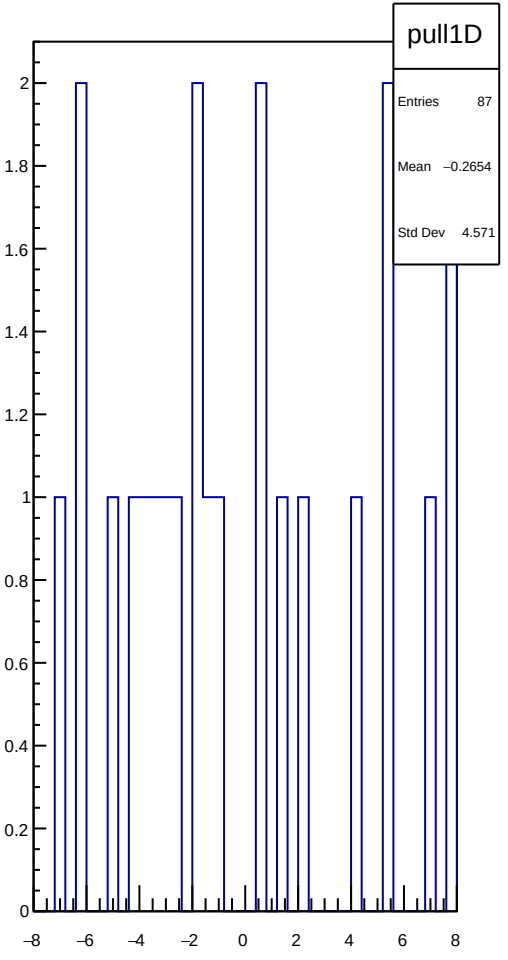

yield_bpm4acX_rms vs run
χ² / ndf 7.756e+04 / 86
p0 0.05 ± 3.903e–05
0.12
0.1
0.08
0.06
0.04

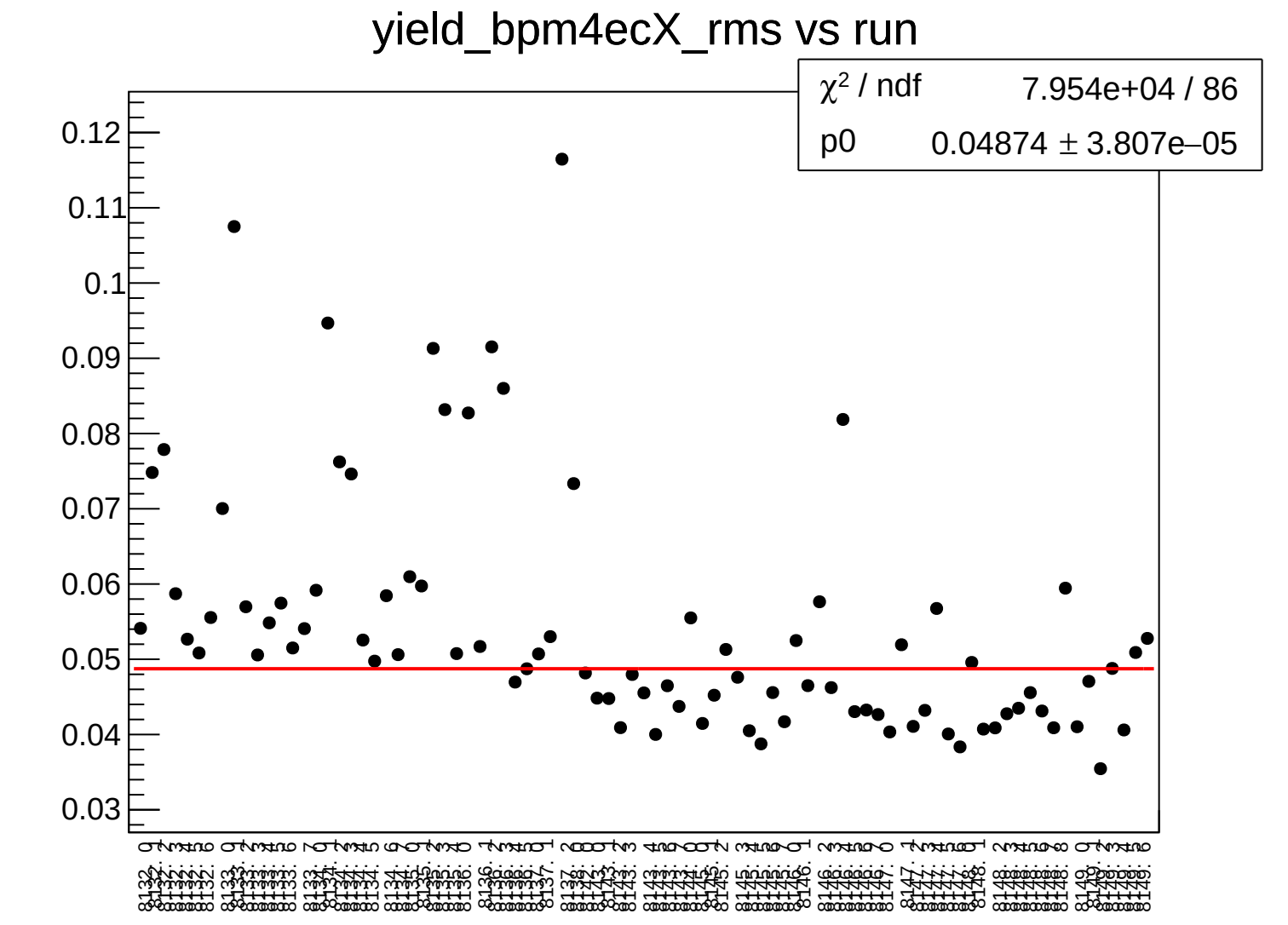

yield_bpm4acY_mean vs run
χ² / ndf 1.134e+05 / 86
p0 0.6382 ± 1.54e−05
0.65
0.645
0.64
0.635
0.63
0.625
pull
Entries 87
Mean 540.5
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100

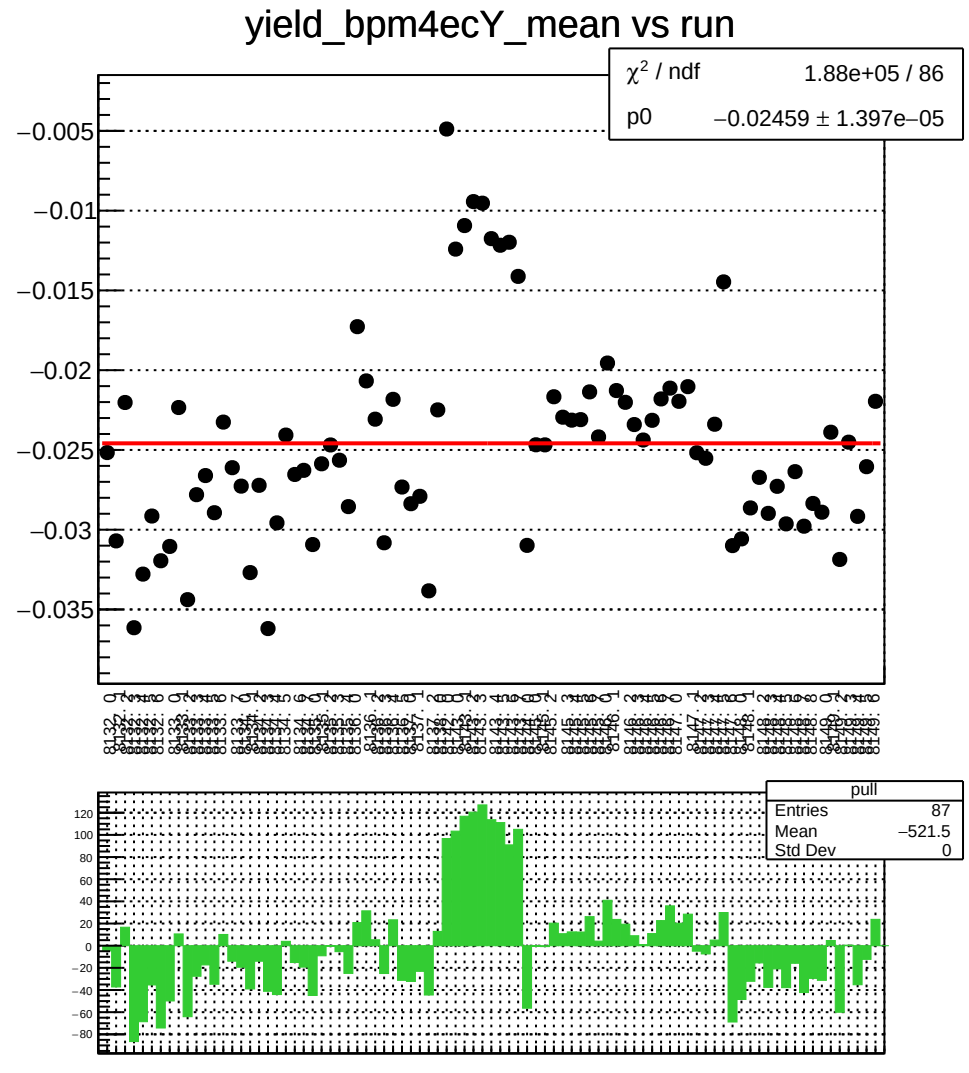

pull1D
Entries 87
Mean −0.09626
Std Dev 3.993
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

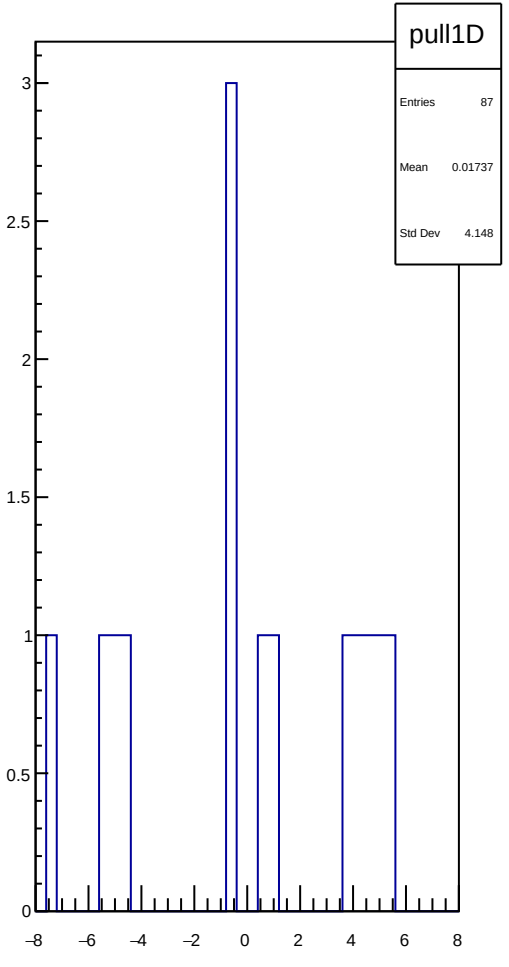

yield_bpm4acY_rms vs run
χ² / ndf 6.765e+04 / 86
p0 0.014 ± 1.089e–05
0.035
0.03
0.025
0.02
0.015
0.01

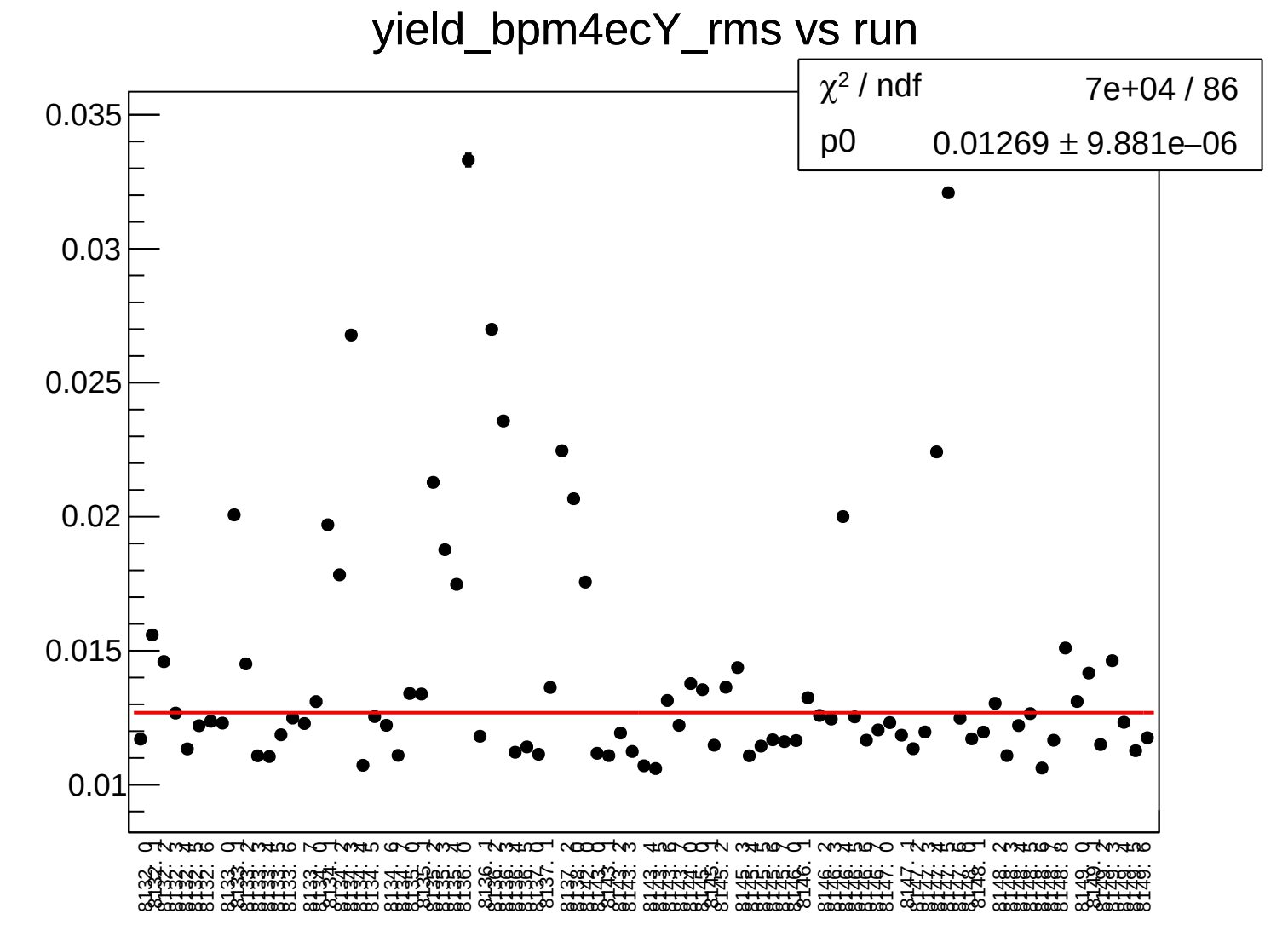

yield_bpm4ecX_mean vs run
χ² / ndf 3.917e+04 / 86
p0 −0.24 ± 5.384e−05
−0.21
−0.22
−0.23
−0.24
−0.25
−0.26
−0.27
pull
Entries 87
Mean −160.6
Std Dev 0
40
20
0
−20
−40

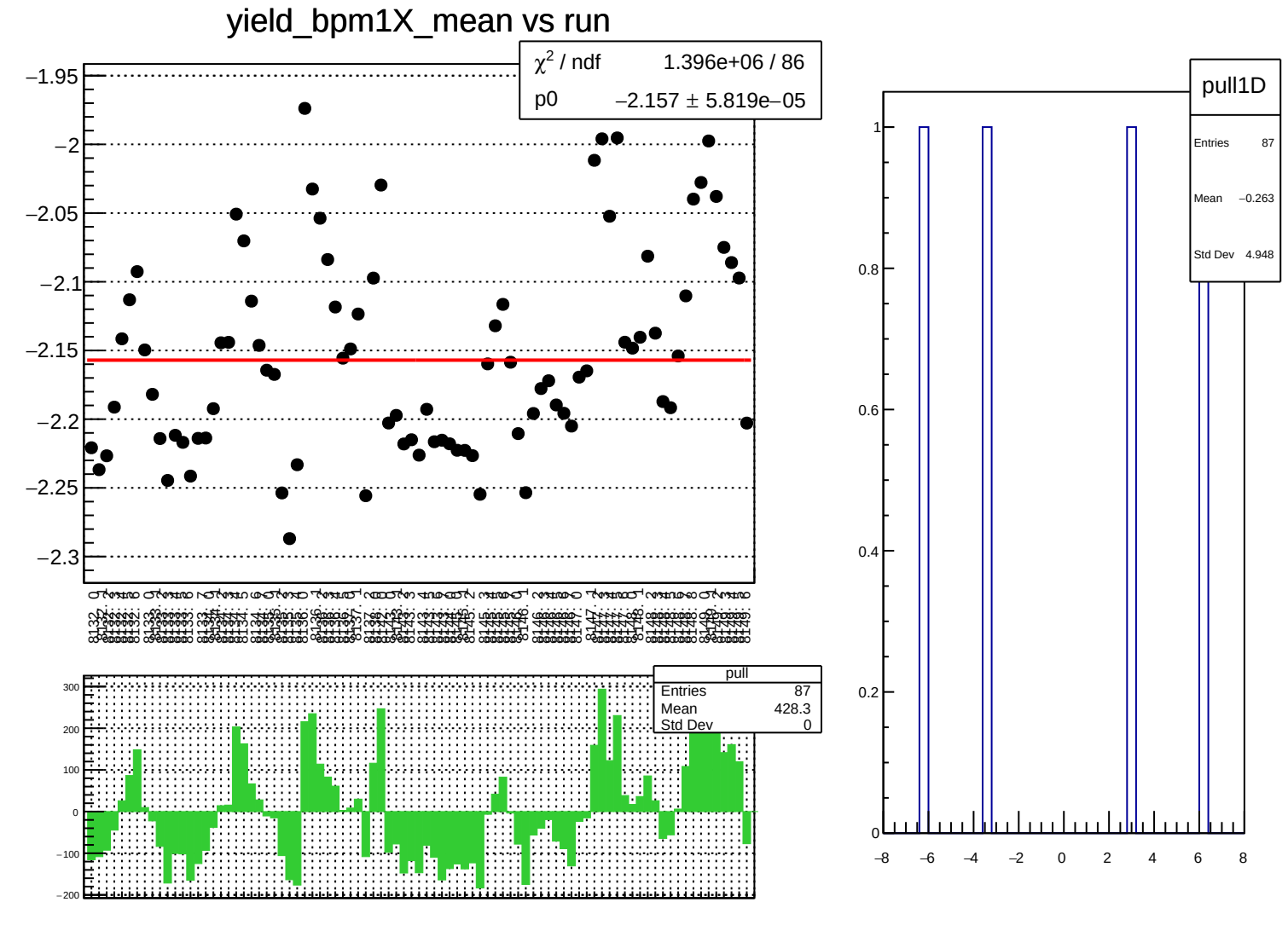

pull1D
Entries 87
Mean −0.2654
Std Dev 4.571
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

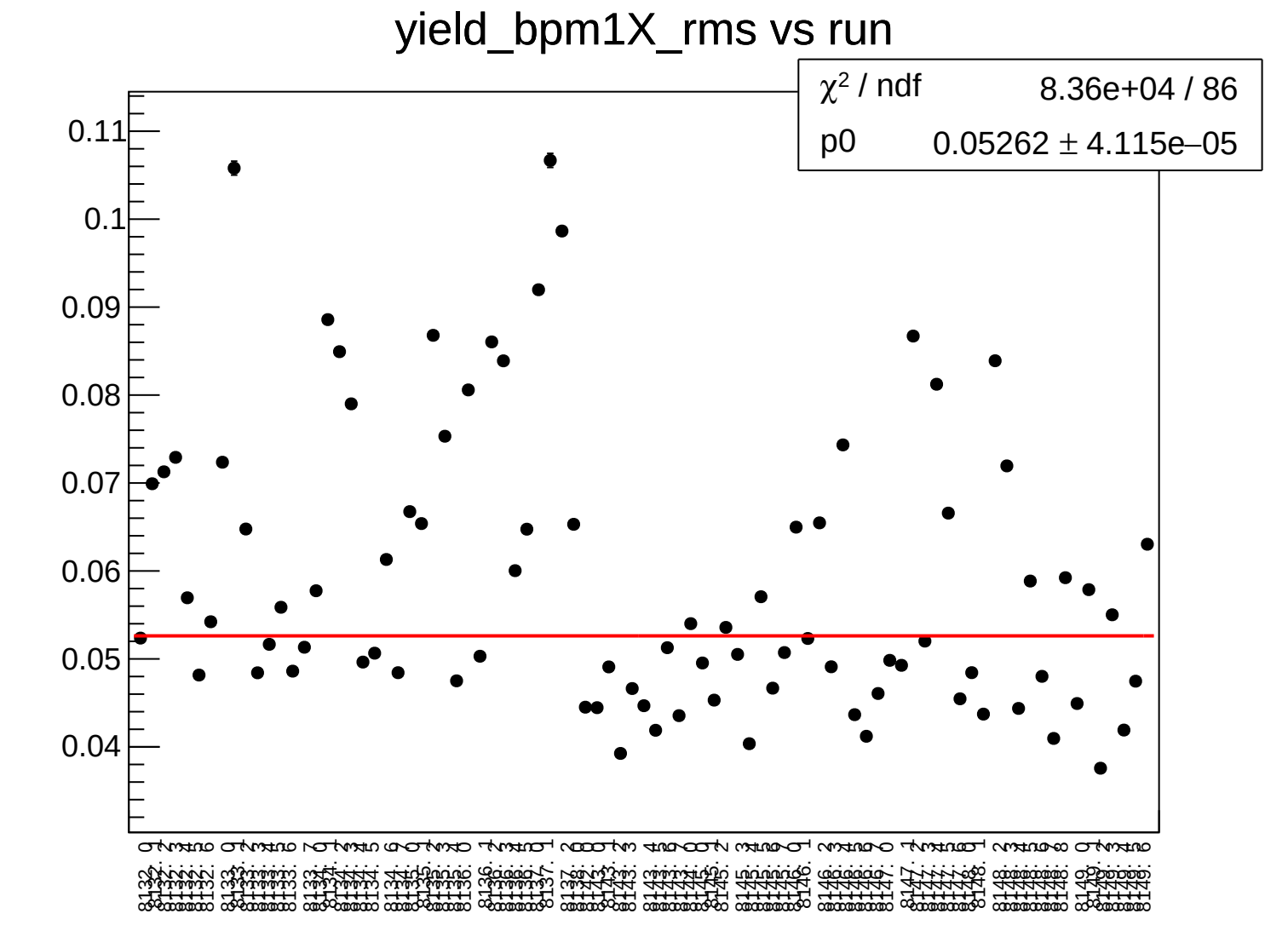

yield_bpm4ecX_rms vs run
χ² / ndf 7.954e+04 / 86
p0 0.04874 ± 3.807e–05
0.12
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03

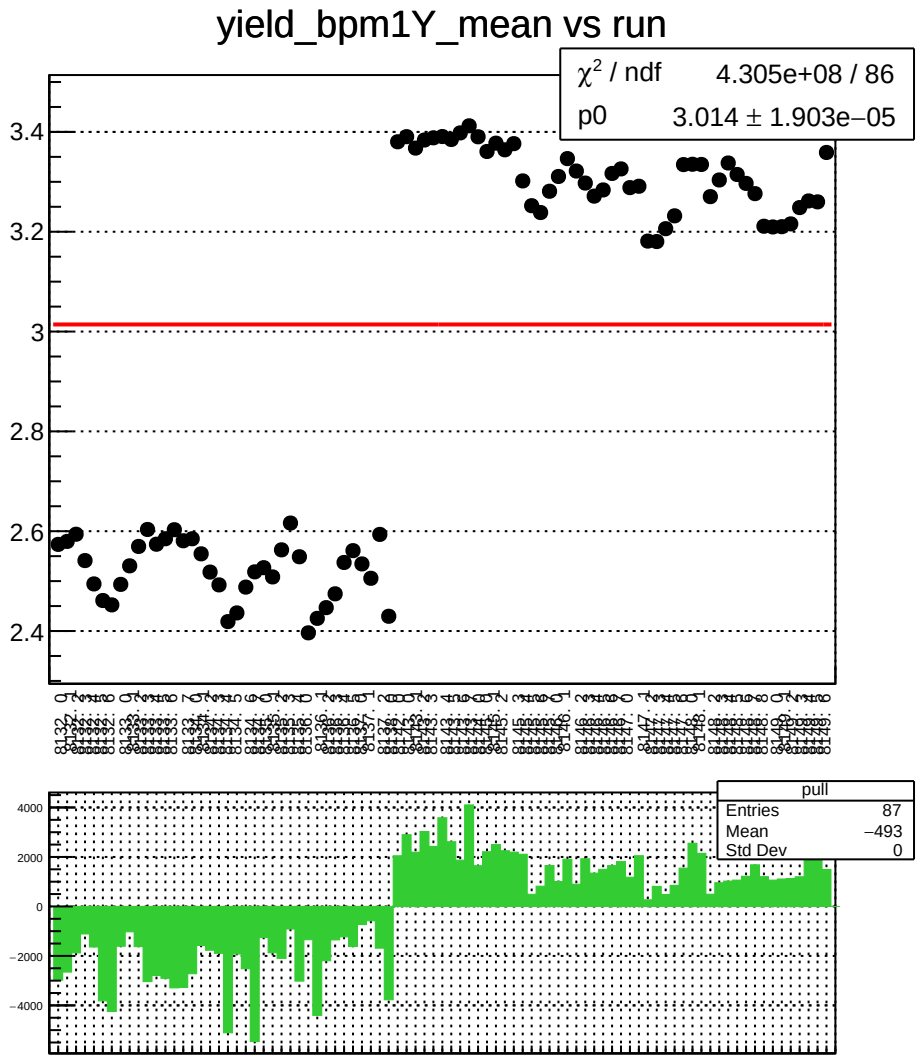

yield_bpm4ecY_mean vs run
χ² / ndf 1.88e+05 / 86
p0 −0.02459 ± 1.397e−05
−0.005
−0.01
−0.015
−0.02
−0.025
−0.03
−0.035
pull
Entries 87
Mean −521.5
Std Dev 0
120
100
80
60
40
20
0
−20
−40
−60
−80

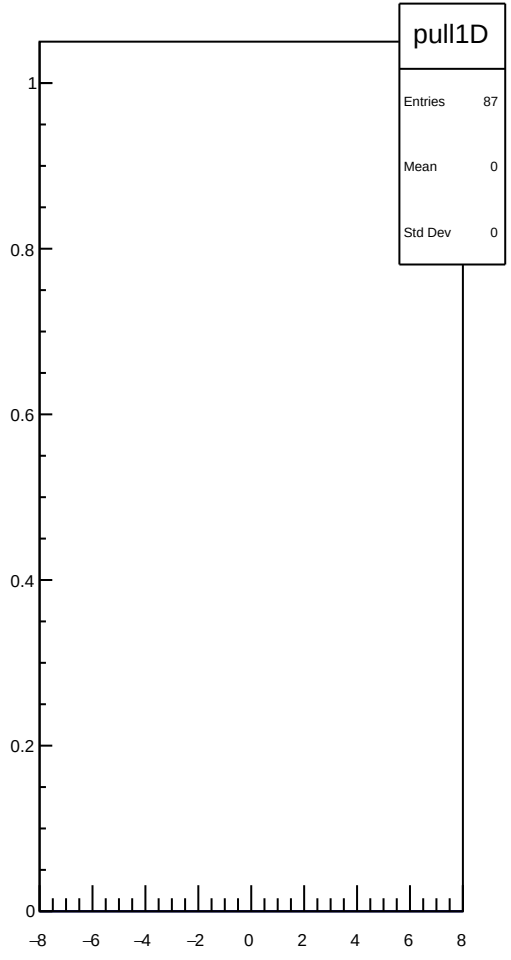

pull1D
Entries 87
Mean 0.01737
Std Dev 4.148
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

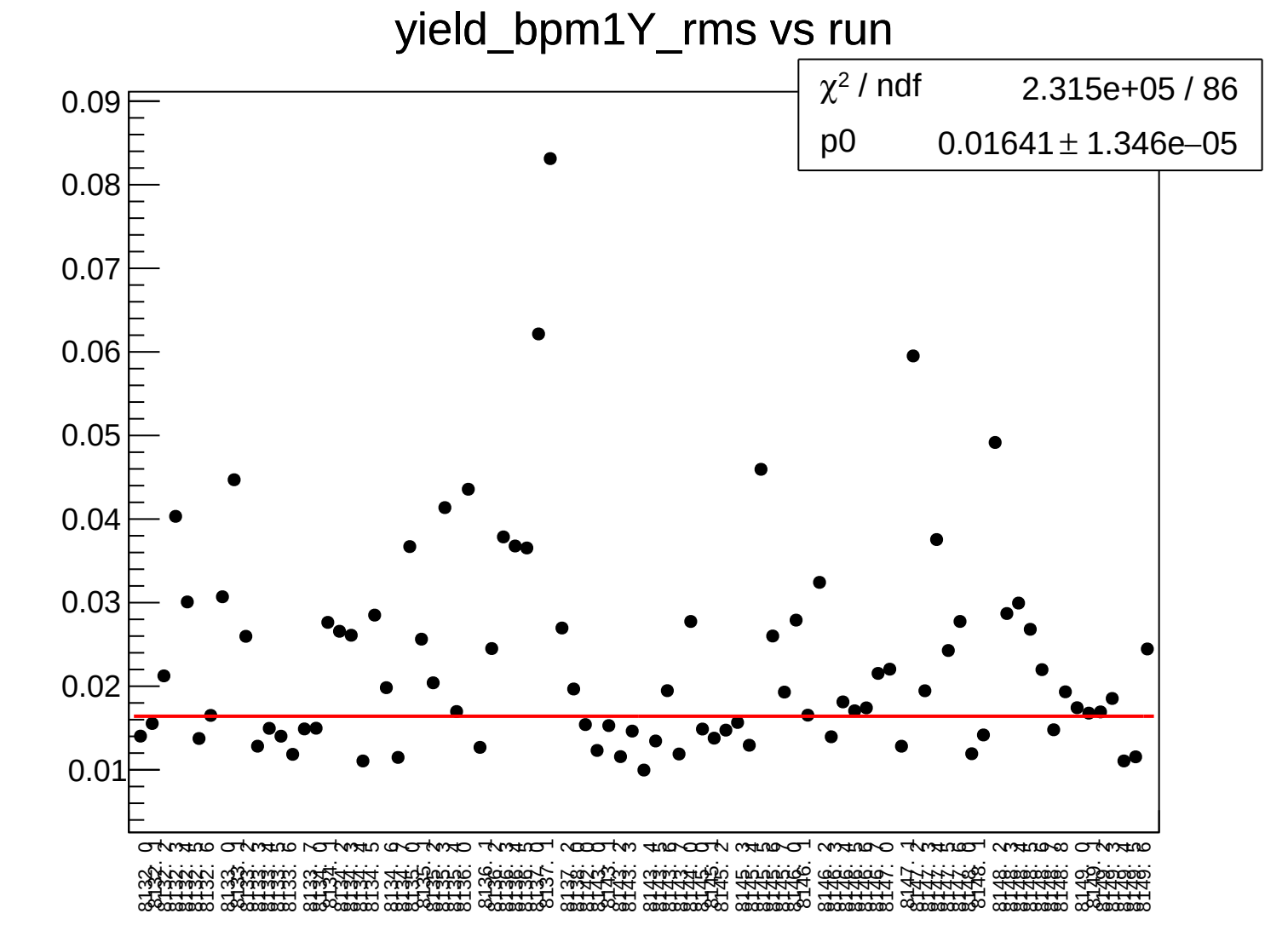

yield_bpm4ecY_rms vs run
χ² / ndf 7e+04 / 86
p0 0.01269 ± 9.881e–06
0.035
0.03
0.025
0.02
0.015
0.01

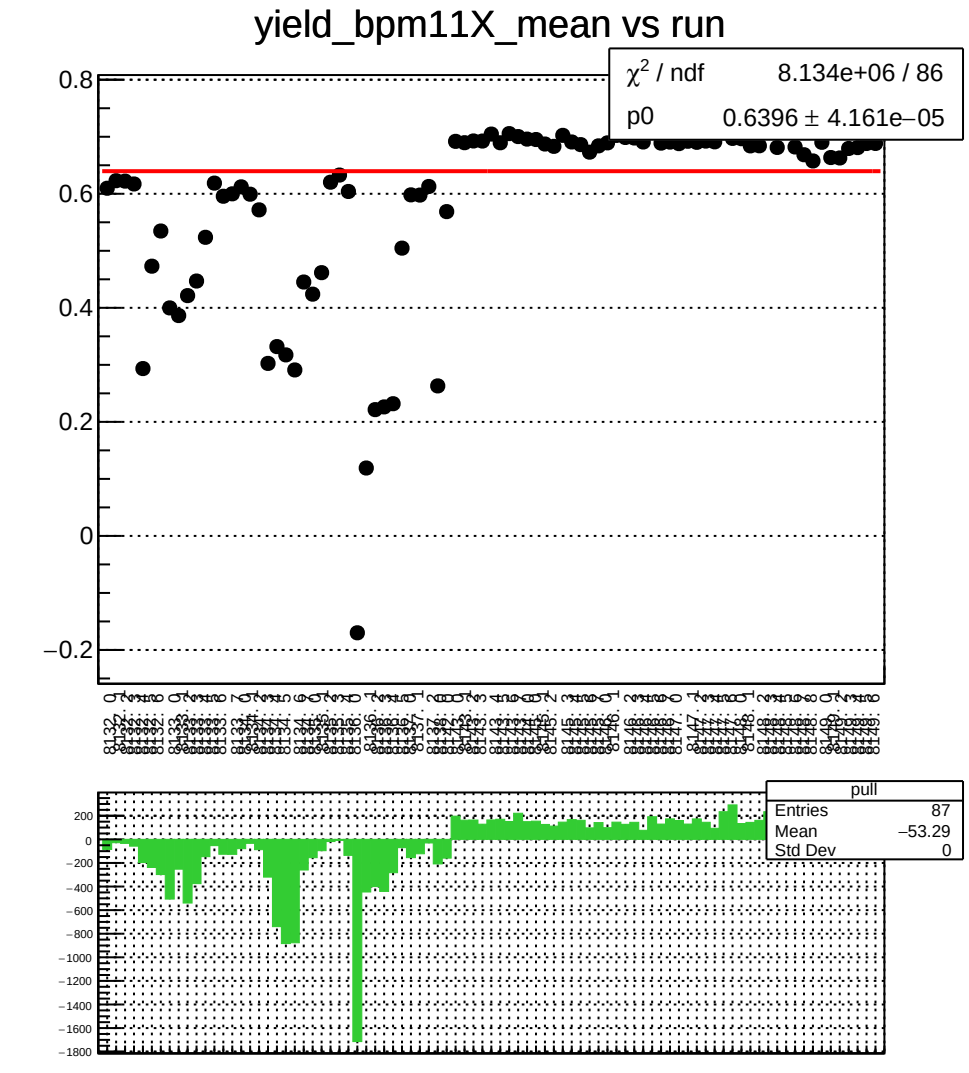

yield_bpm1X_mean vs run
χ² / ndf 1.396e+06 / 86
p0 −2.157 ± 5.819e−05
−1.95
−2
−2.05
−2.1
−2.15
−2.2
−2.25
−2.3
pull
Entries 87
Mean 428.3
Std Dev 0
300
200
100
0
−100
−200
pull1D
Entries 87
Mean −0.263
Std Dev 4.948
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

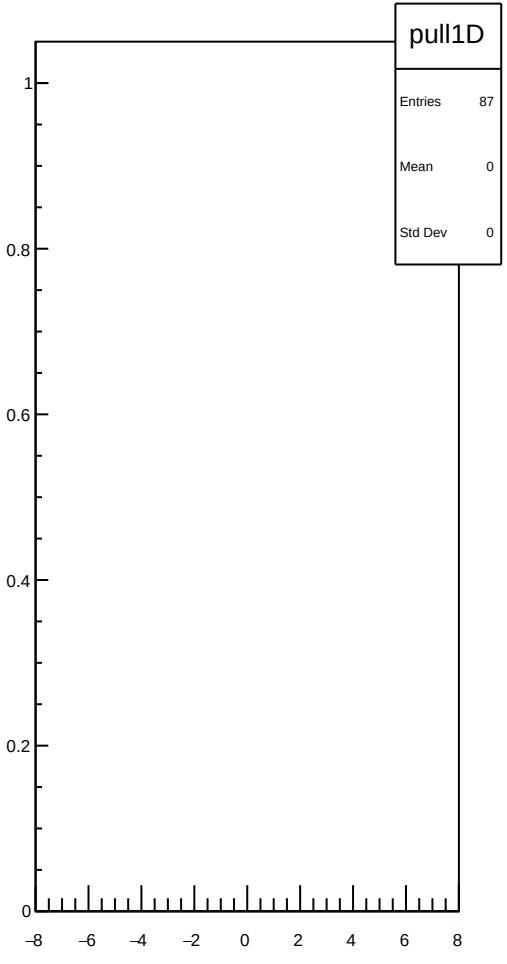

yield_bpm1X_rms vs run
χ² / ndf 8.36e+04 / 86
p0 0.05262 ± 4.115e−05
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04

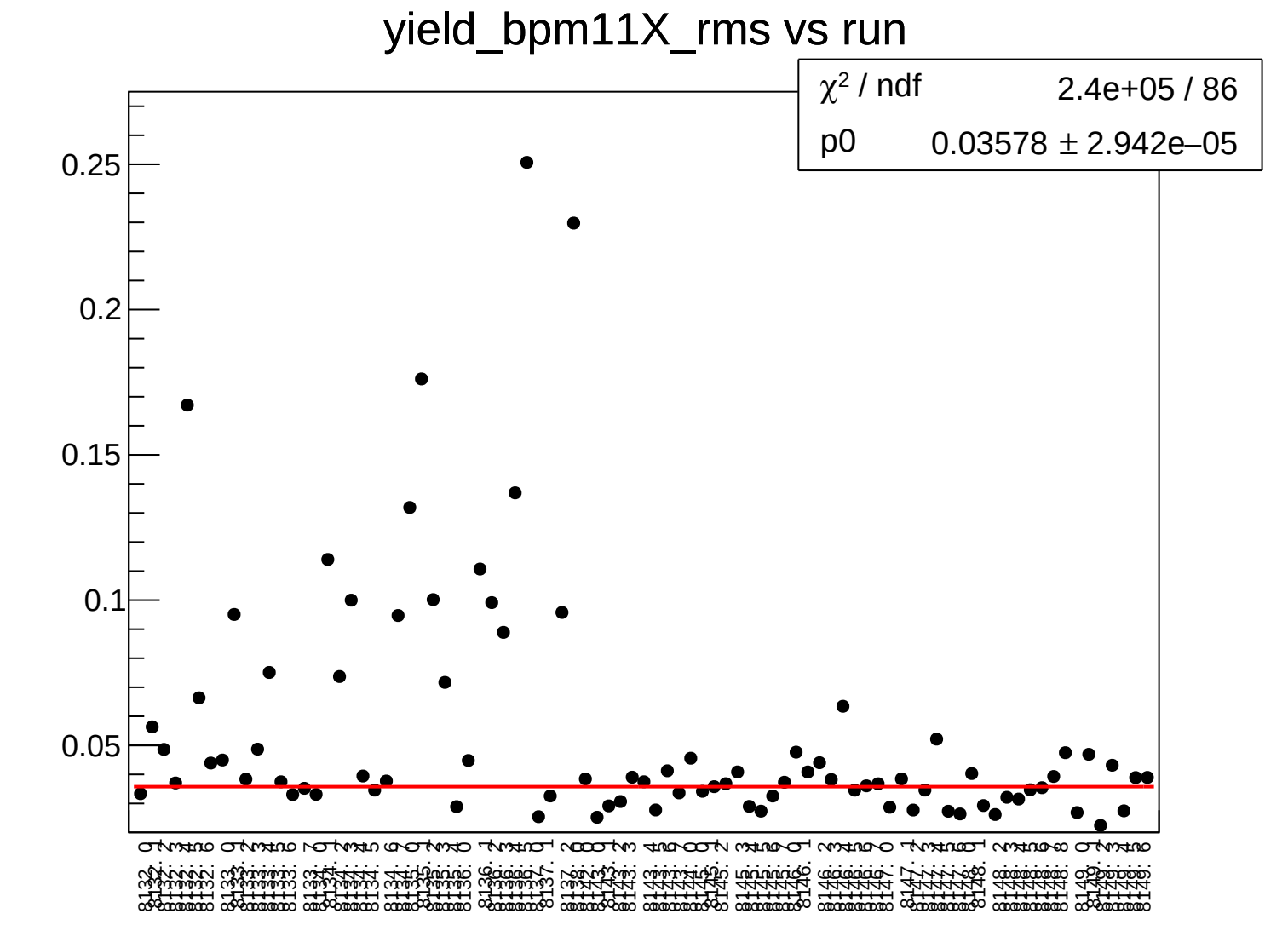

yield_bpm1Y_mean vs run
χ² / ndf 4.305e+08 / 86
p0 3.014 ± 1.903e−05
3.4
3.2
3
2.8
2.6
2.4
pull
Entries 87
Mean −493
Std Dev 0
4000
2000
0
−2000
−4000

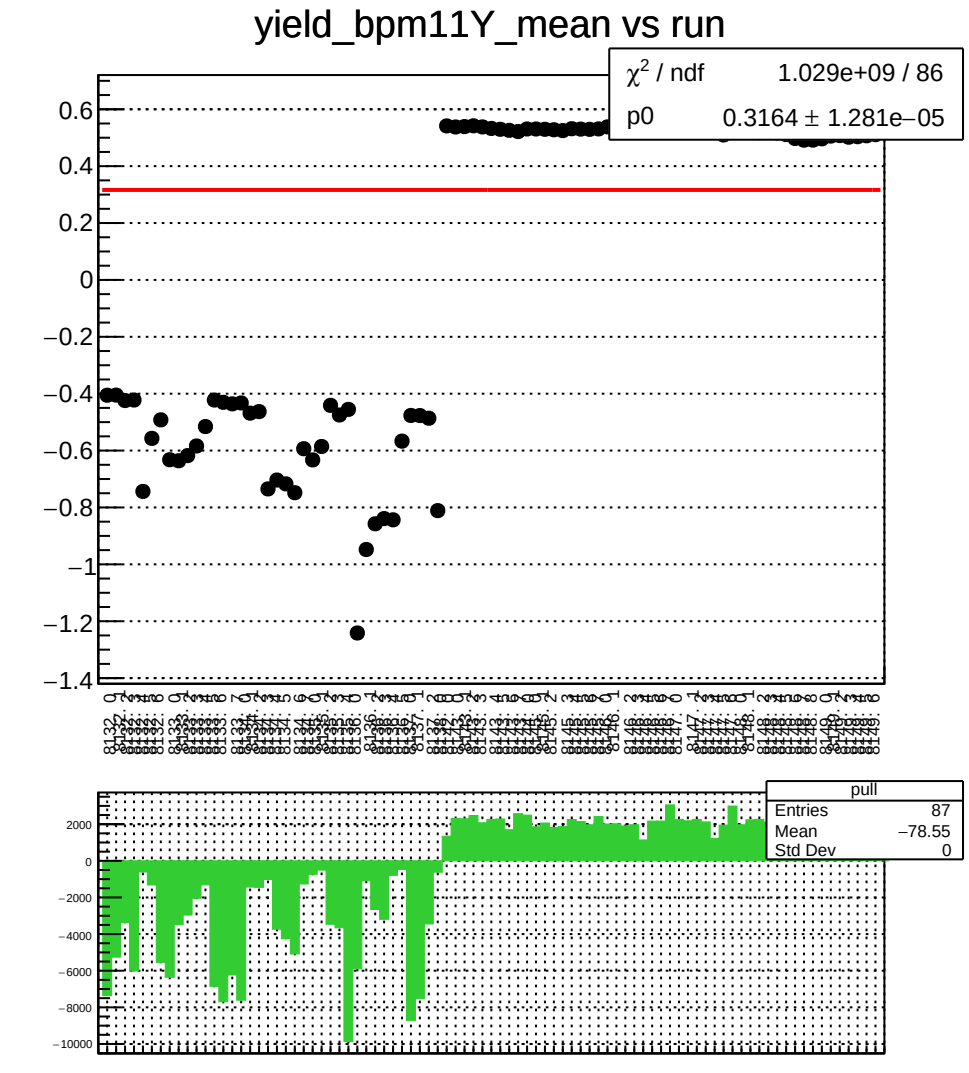

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

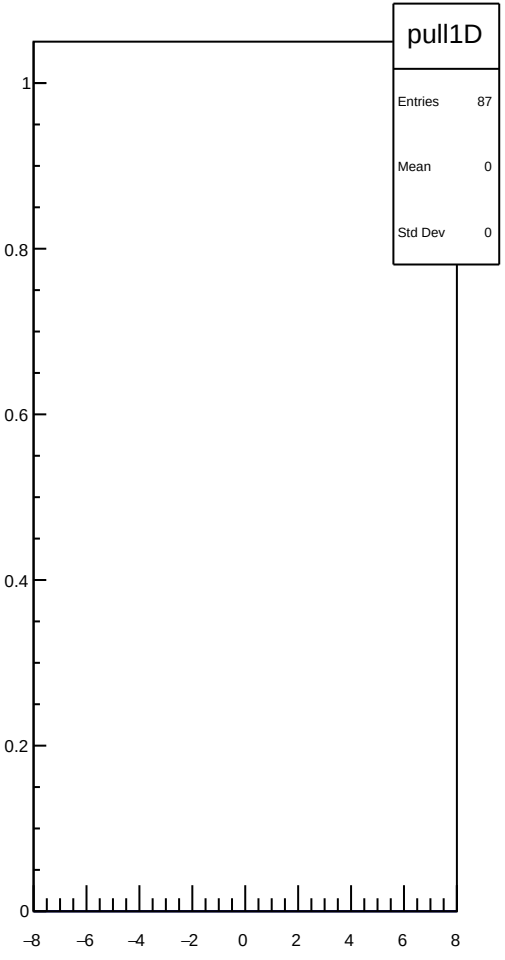

yield_bpm1Y_rms vs run
χ² / ndf 2.315e+05 / 86
p0 0.01641 ± 1.346e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

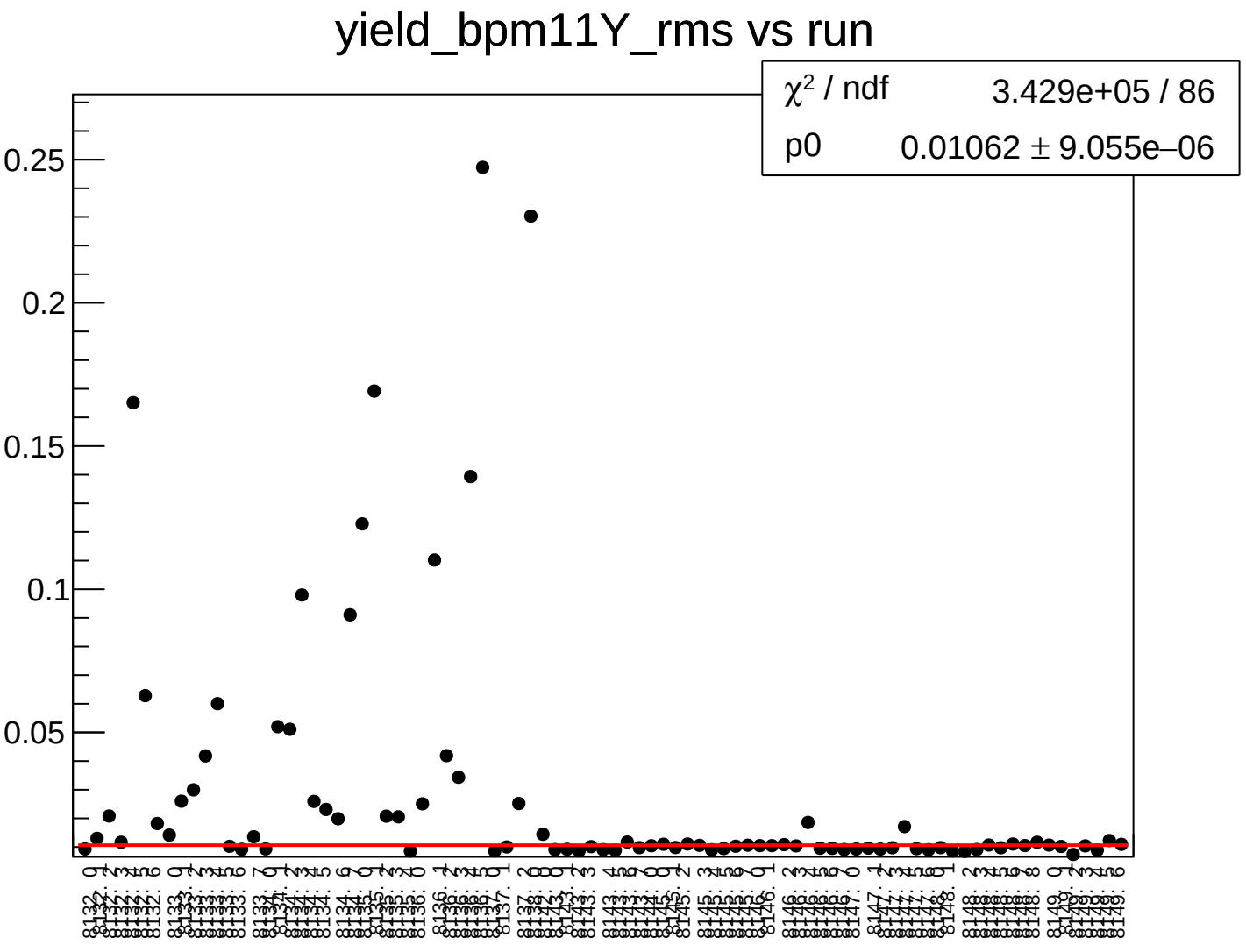

yield_bpm11X_mean vs run
χ² / ndf 8.134e+06 / 86
p0 0.6396 ± 4.161e−05
pull
Entries 87
Mean −53.29
Std Dev 0

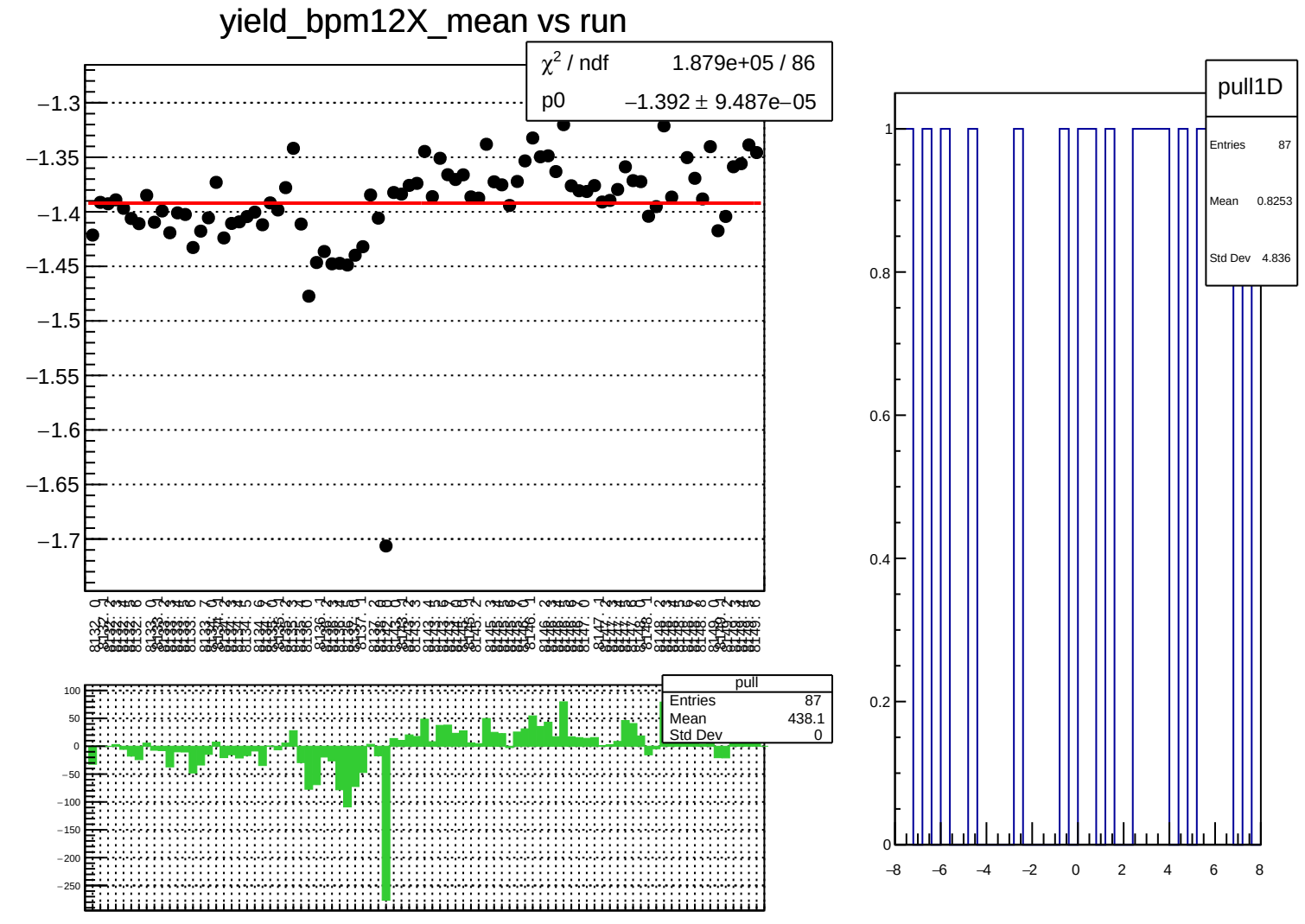

pull1D
Entries 87
Mean 0
Std Dev 0

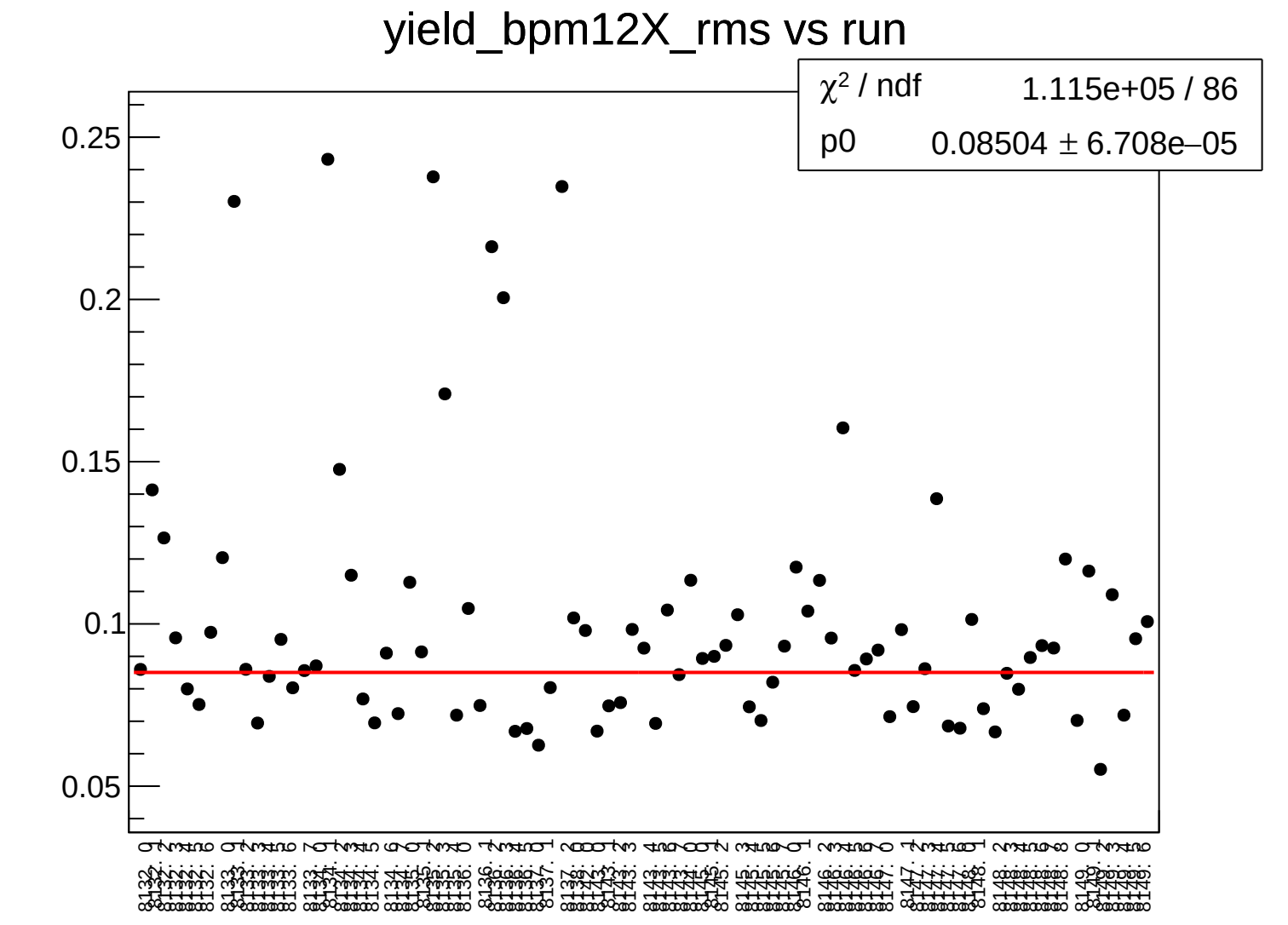

yield_bpm11X_rms vs run
χ² / ndf 2.4e+05 / 86
p0 0.03578 ± 2.942e–05
0.25
0.2
0.15
0.1
0.05

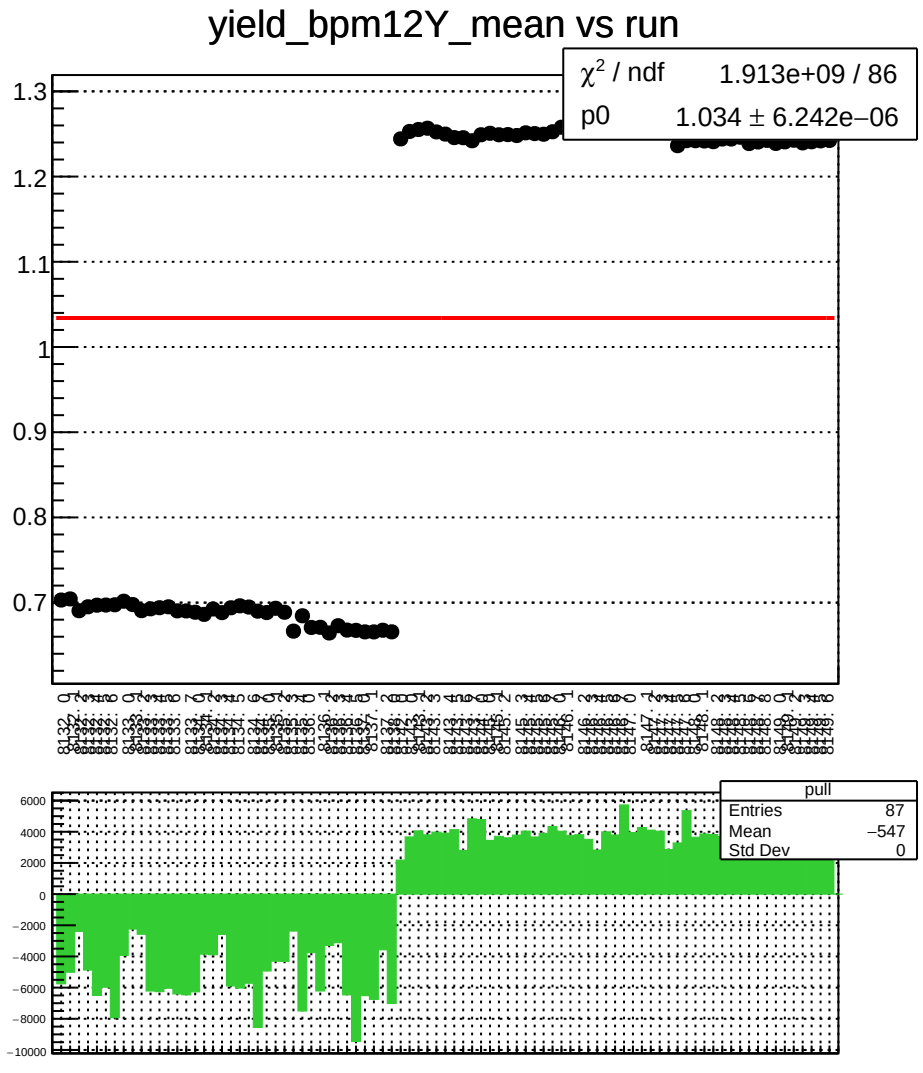

yield_bpm11Y_mean vs run
χ² / ndf 1.029e+09 / 86
p0 0.3164 ± 1.281e−05
pull
Entries 87
Mean −78.55
Std Dev 0

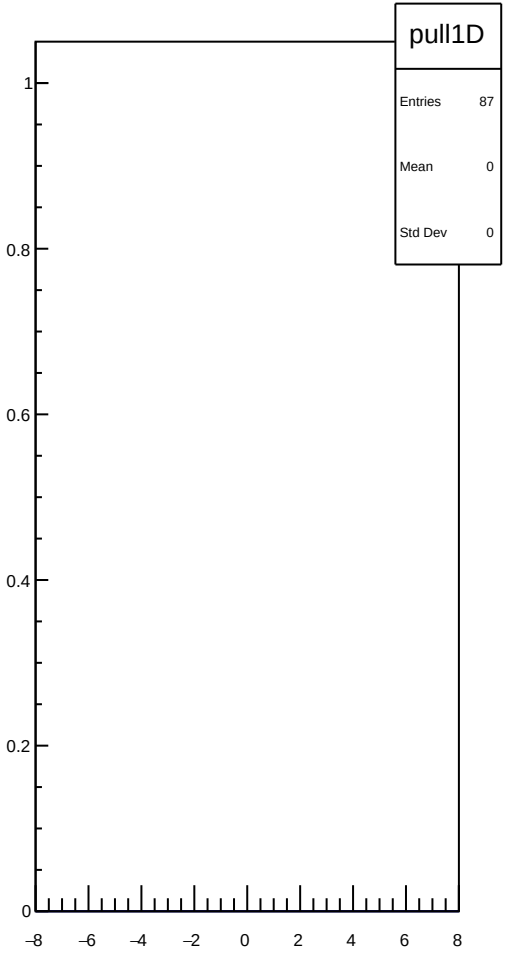

pull1D
Entries 87
Mean 0
Std Dev 0

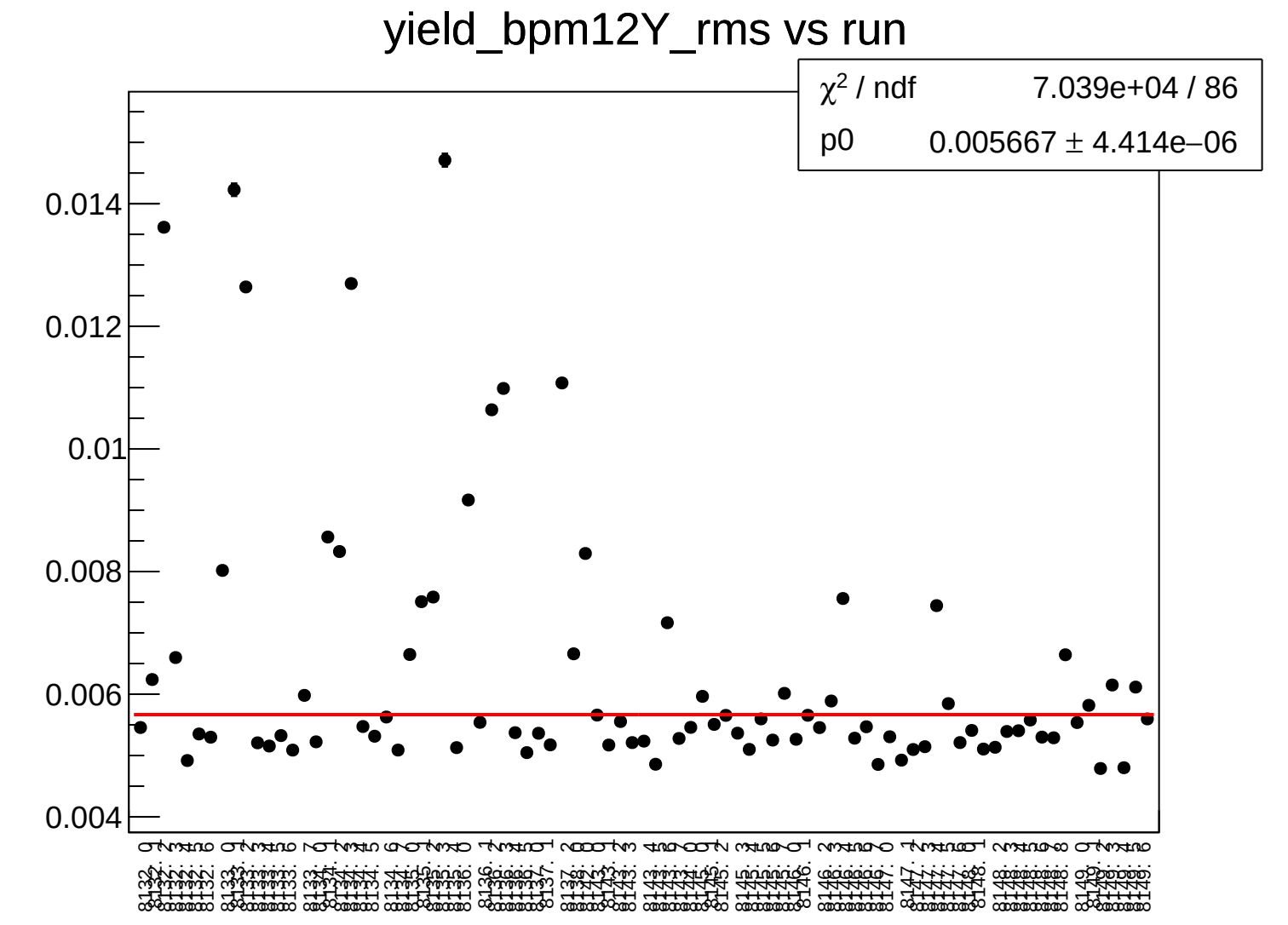

yield_bpm11Y_rms vs run
χ² / ndf 3.429e+05 / 86
p0 0.01062 ± 9.055e–06
0.25
0.2
0.15
0.1
0.05

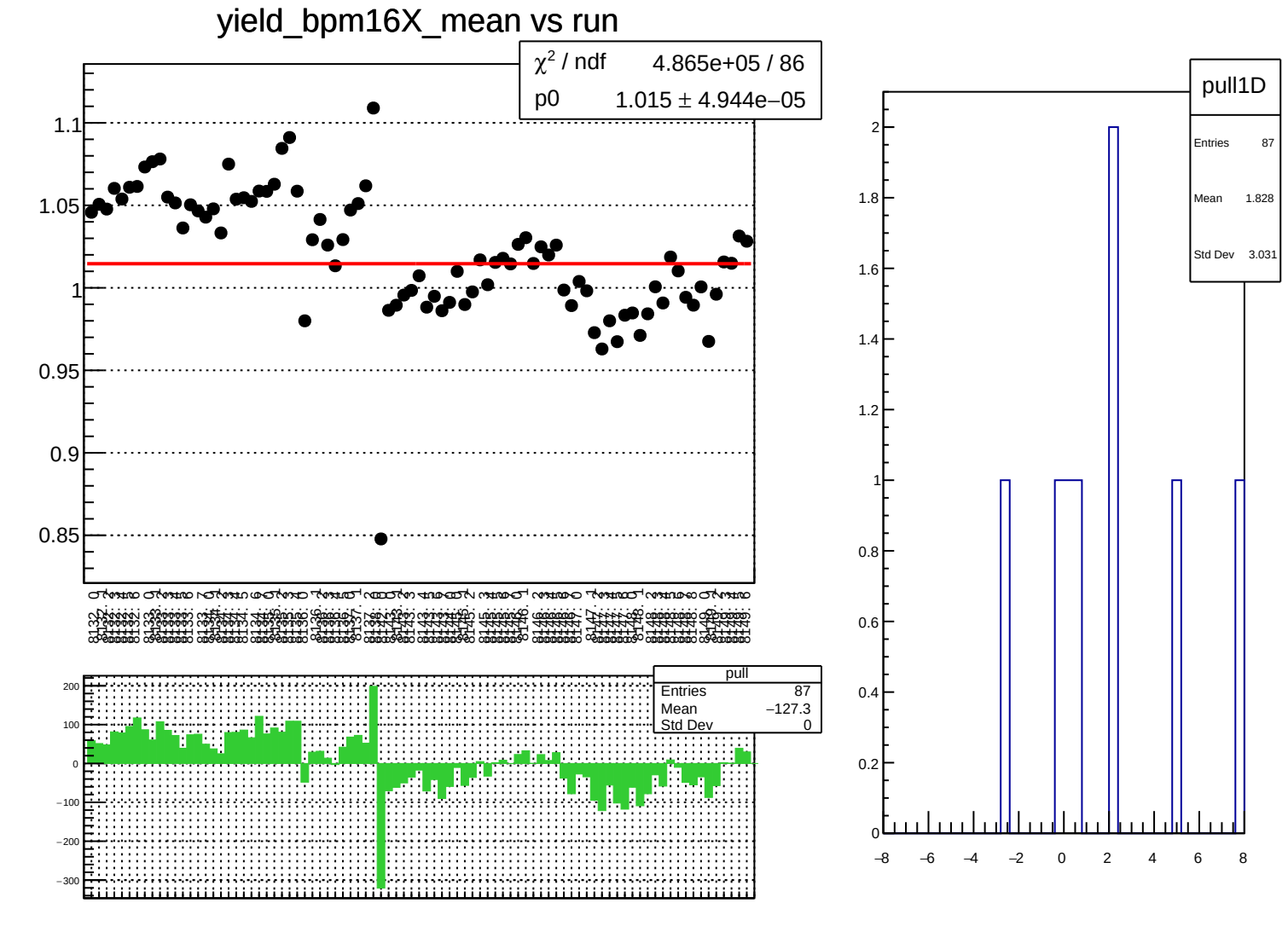

yield_bpm12X_mean vs run
χ² / ndf 1.879e+05 / 86
p0 −1.392 ± 9.487e−05
pull
Entries 87
Mean 438.1
Std Dev 0
pull1D
Entries 87
Mean 0.8253
Std Dev 4.836

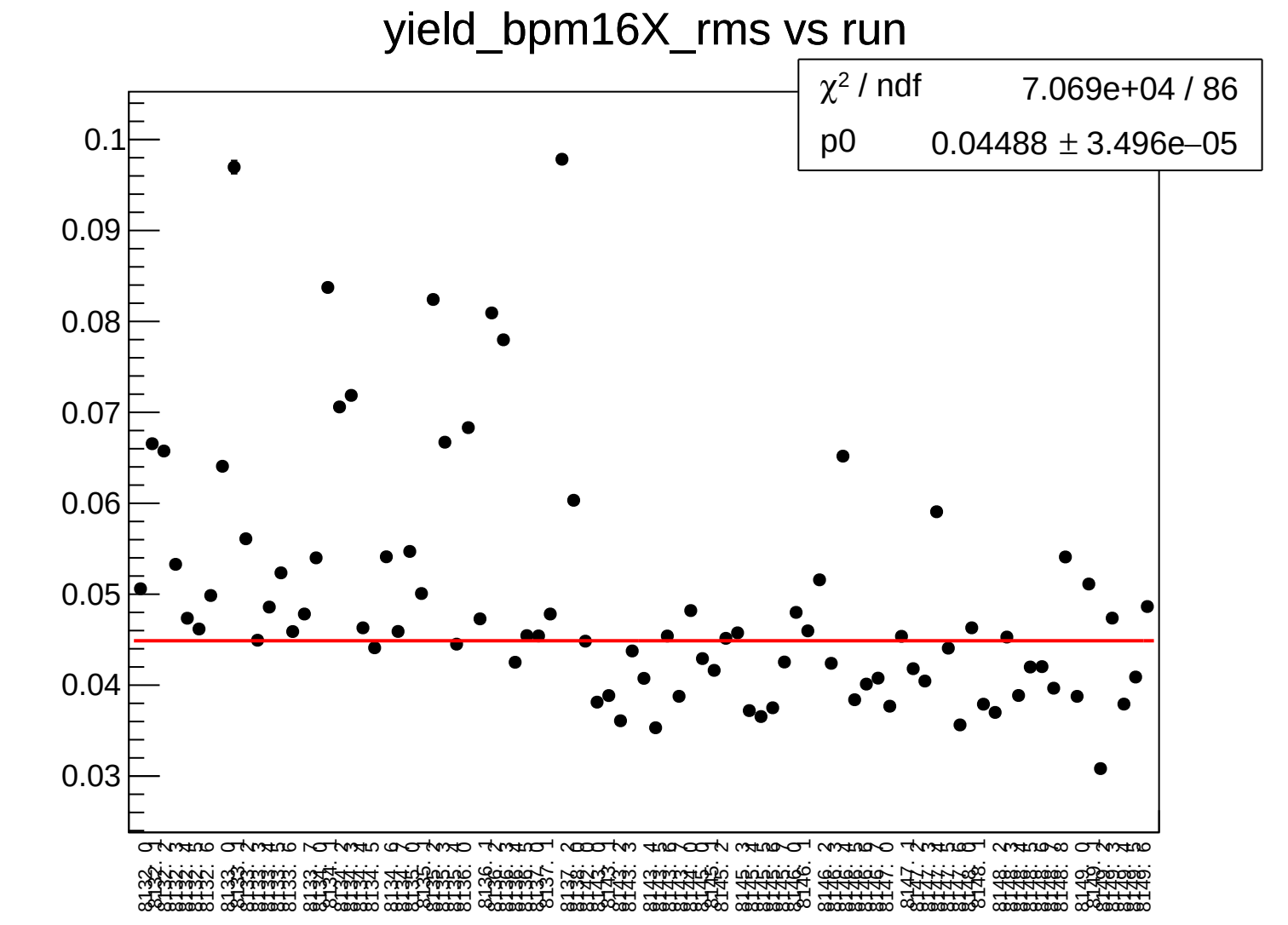

yield_bpm12X_rms vs run
χ² / ndf 1.115e+05 / 86
p0 0.08504 ± 6.708e–05
0.25
0.2
0.15
0.1
0.05

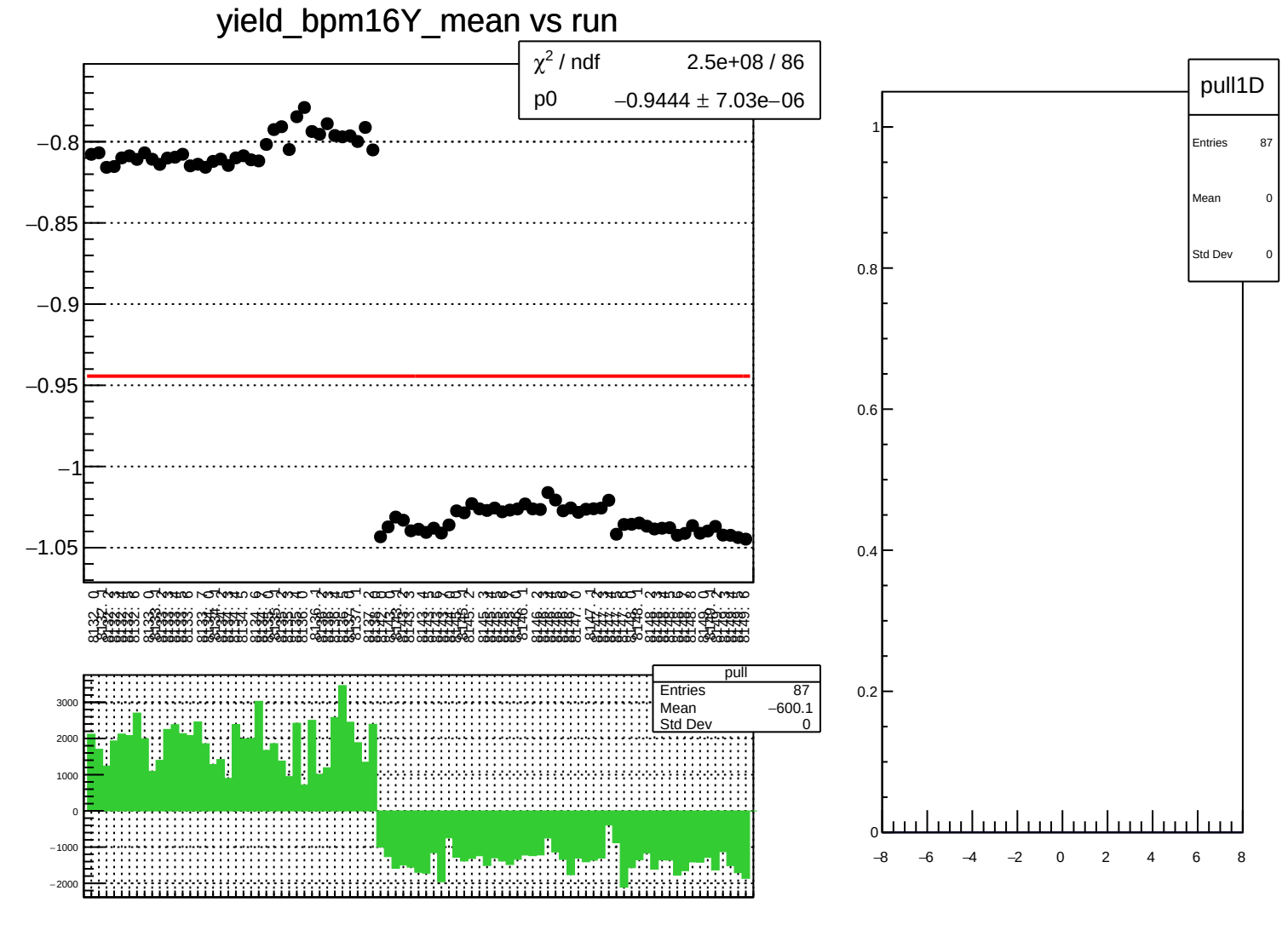

yield_bpm12Y_mean vs run
χ² / ndf 1.913e+09 / 86
p0 1.034 ± 6.242e−06
pull
Entries 87
Mean −547
Std Dev 0


pull1D
Entries 87
Mean 0
Std Dev 0

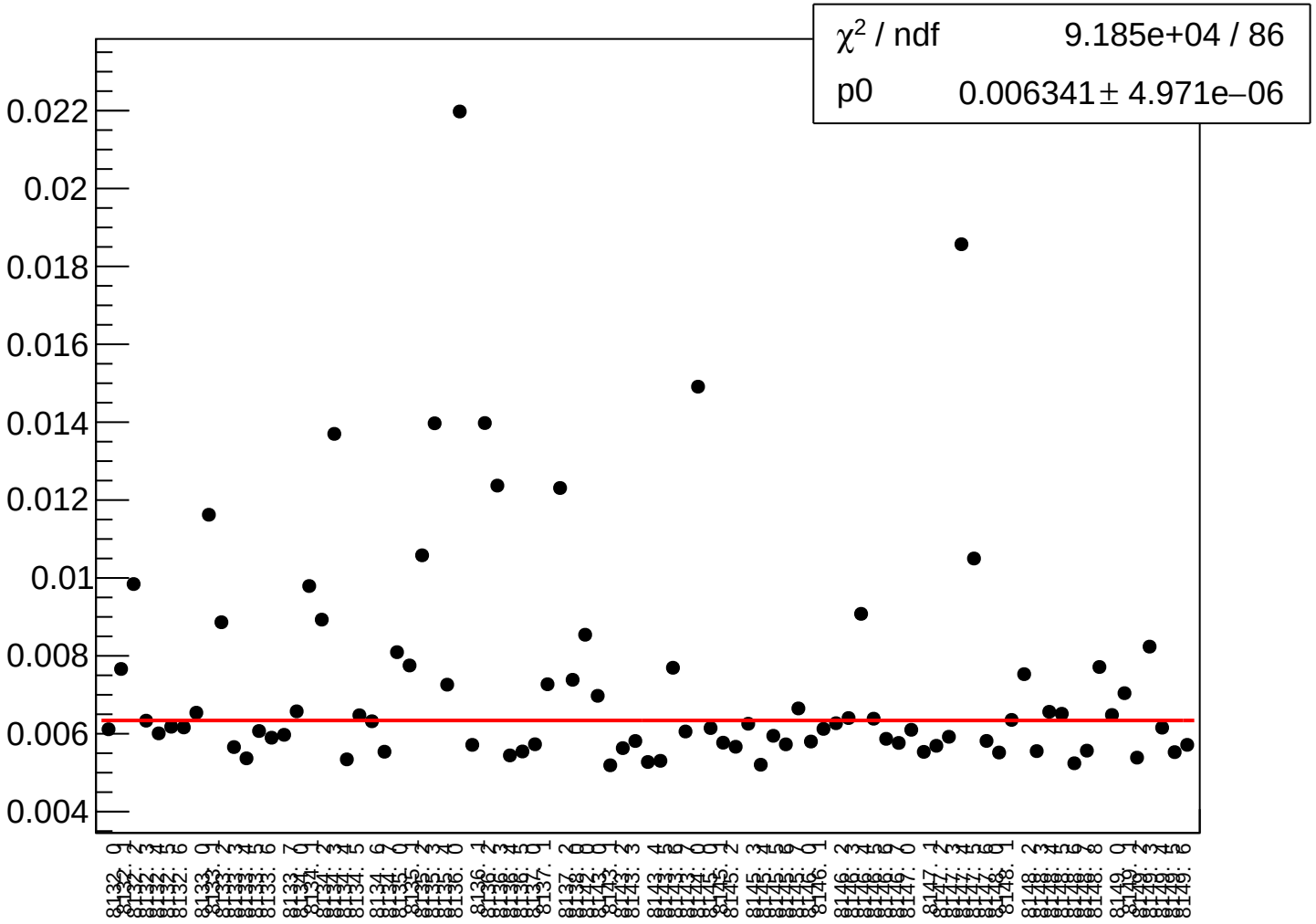

yield_bpm12Y_rms vs run
χ^2 / ndf 7.039e+04 / 86
p0 0.005667 ± 4.414e−06
0.014
0.012
0.01
0.008
0.006
0.004

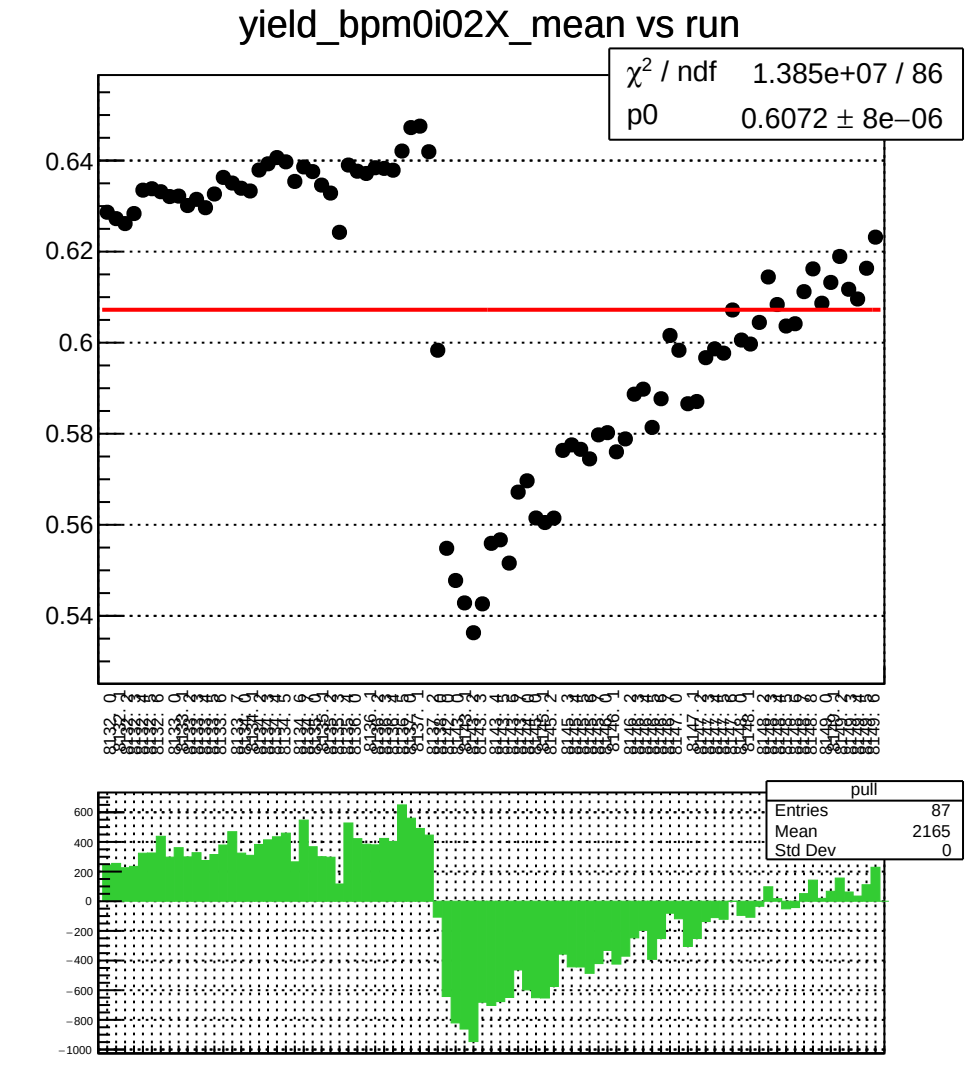

yield_bpm16X_mean vs run
χ² / ndf 4.865e+05 / 86
p0 1.015 ± 4.944e−05
1.1
1.05
1
0.95
0.9
0.85
pull
Entries 87
Mean −127.3
Std Dev 0
200
100
0
−100
−200
−300
pull1D
Entries 87
Mean 1.828
Std Dev 3.031
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

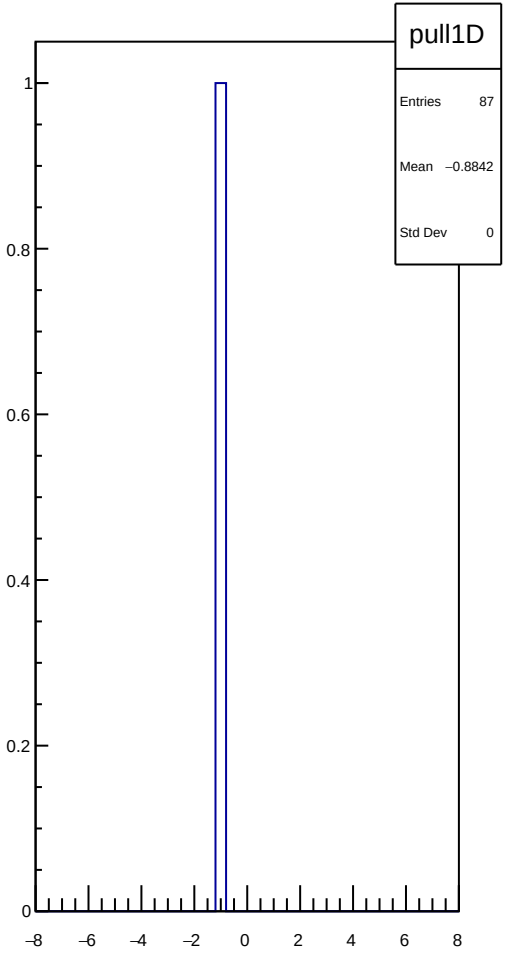

yield_bpm16X_rms vs run
χ² / ndf 7.069e+04 / 86
p0 0.04488 ± 3.496e−05
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03

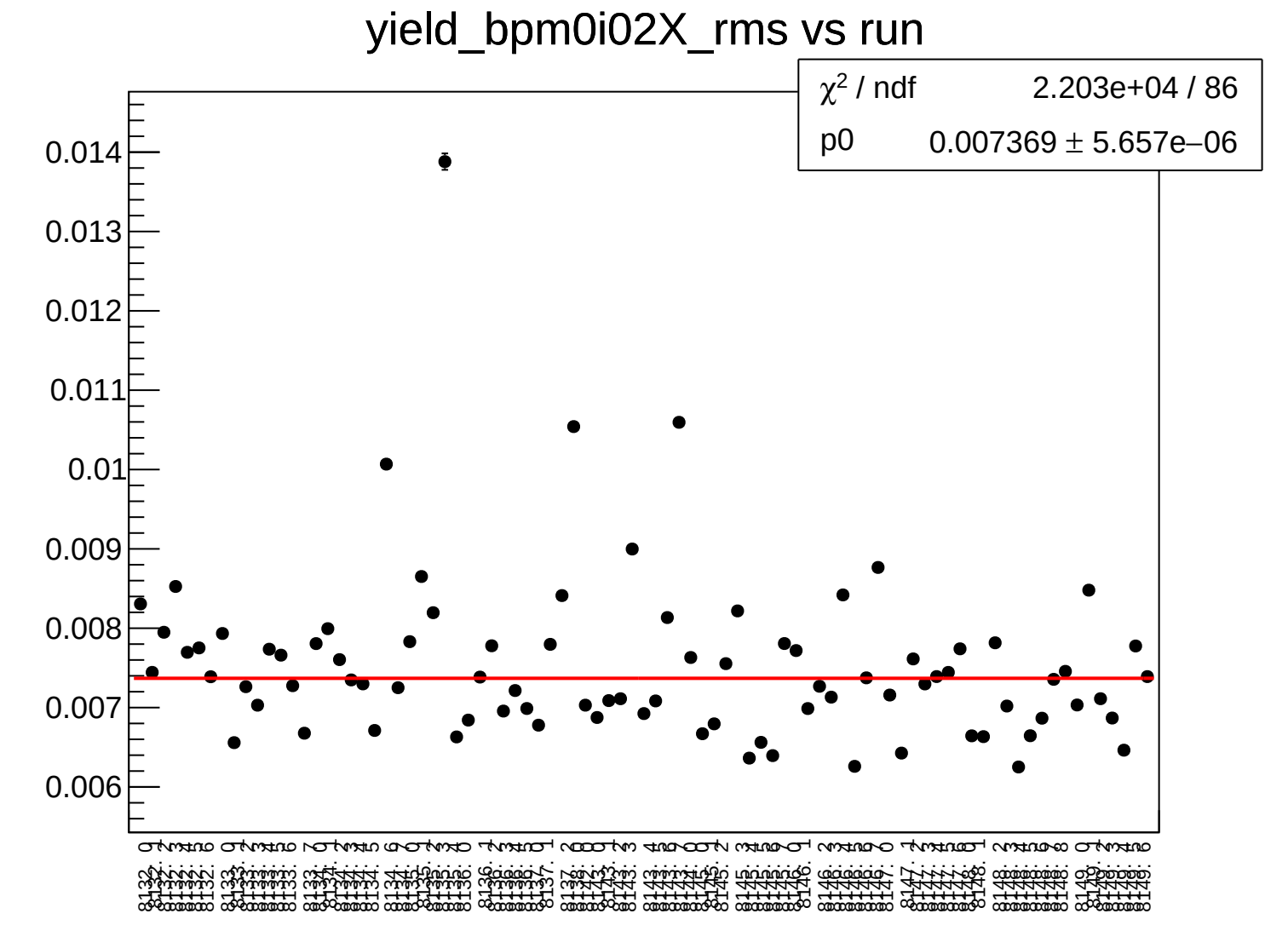

yield_bpm16Y_mean vs run
χ² / ndf 2.5e+08 / 86
p0 −0.9444 ± 7.03e−06
−0.8
−0.85
−0.9
−0.95
−1
−1.05
pull
Entries 87
Mean −600.1
Std Dev 0
3000
2000
1000
0
−1000
−2000
pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

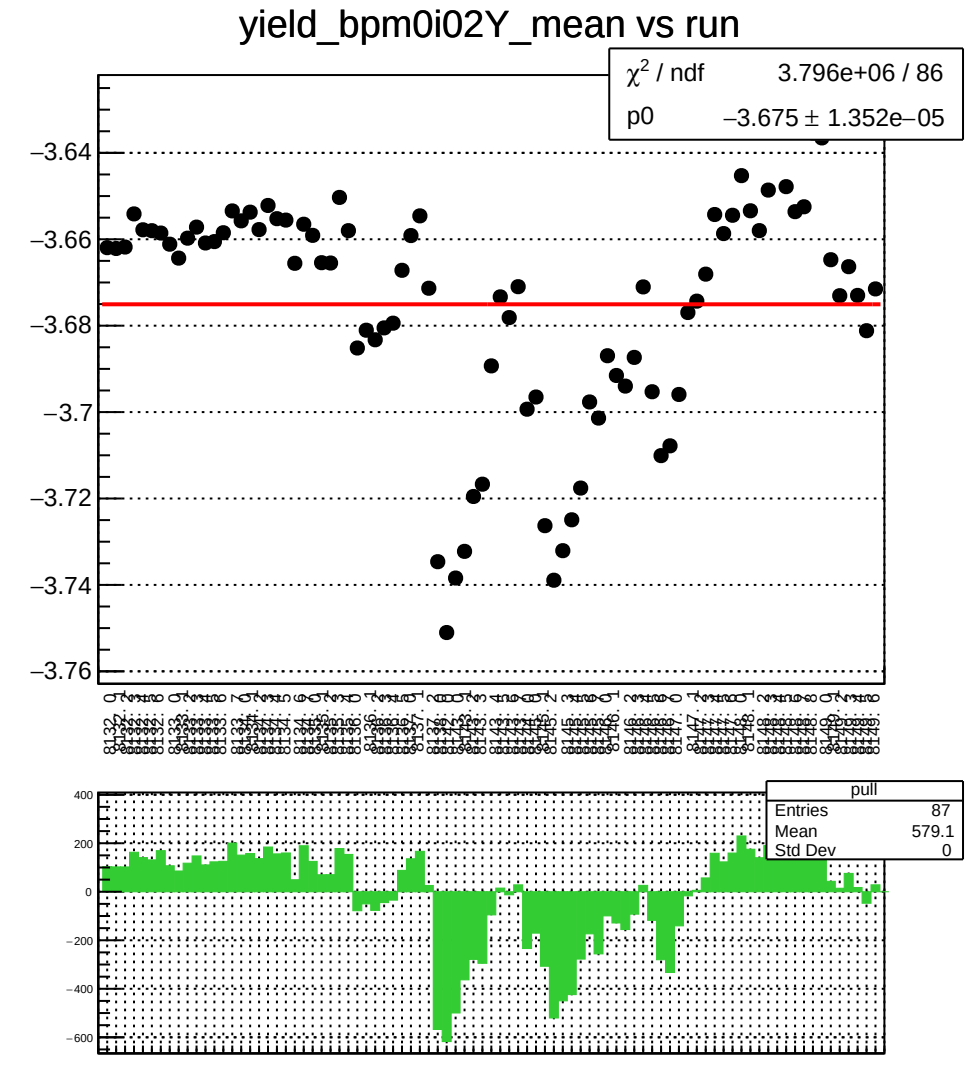
yield_bpm16Y_rms vs run

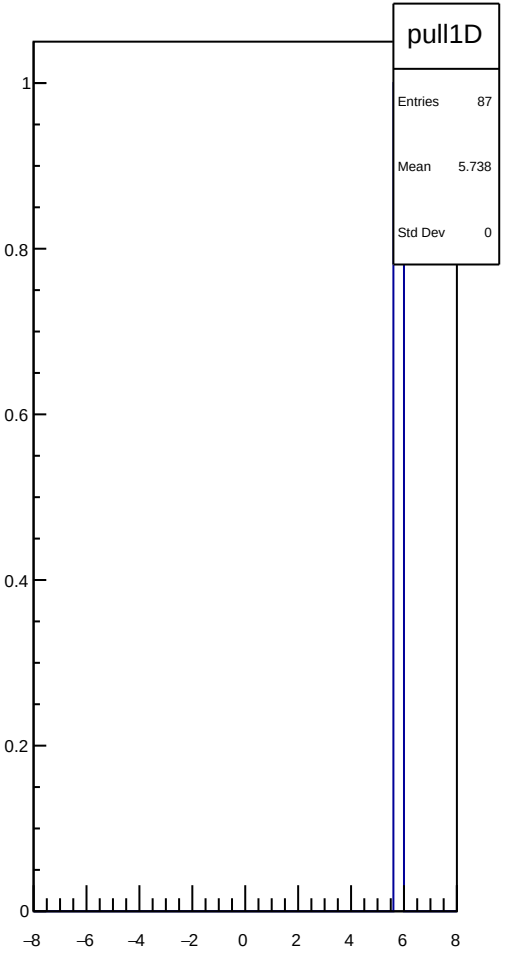


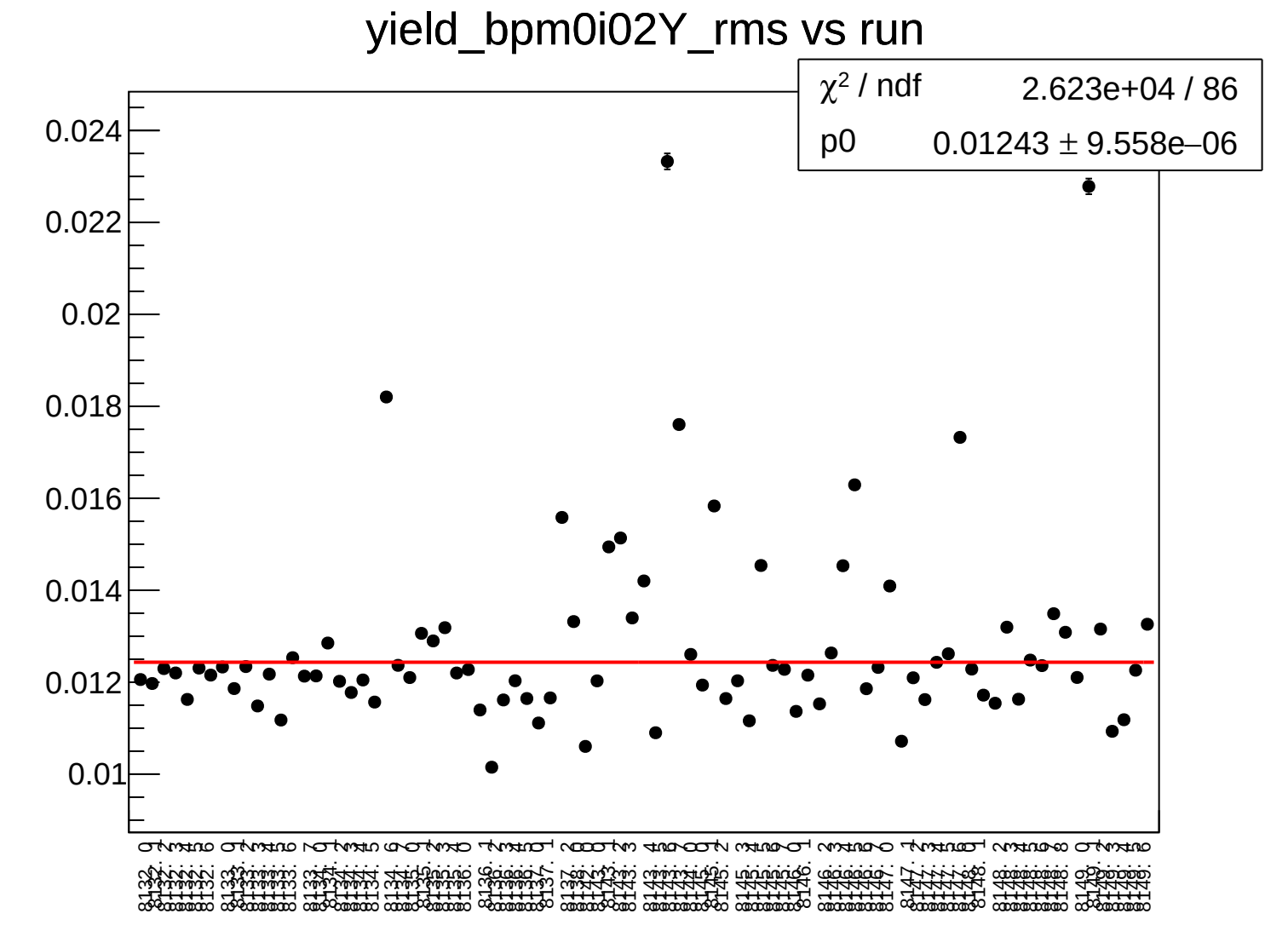

yield_bpm0i02X_mean vs run
χ² / ndf 1.385e+07 / 86
p0 0.6072 ± 8e−06
0.64
0.62
0.6
0.58
0.56
0.54
pull
Entries 87
Mean 2165
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000

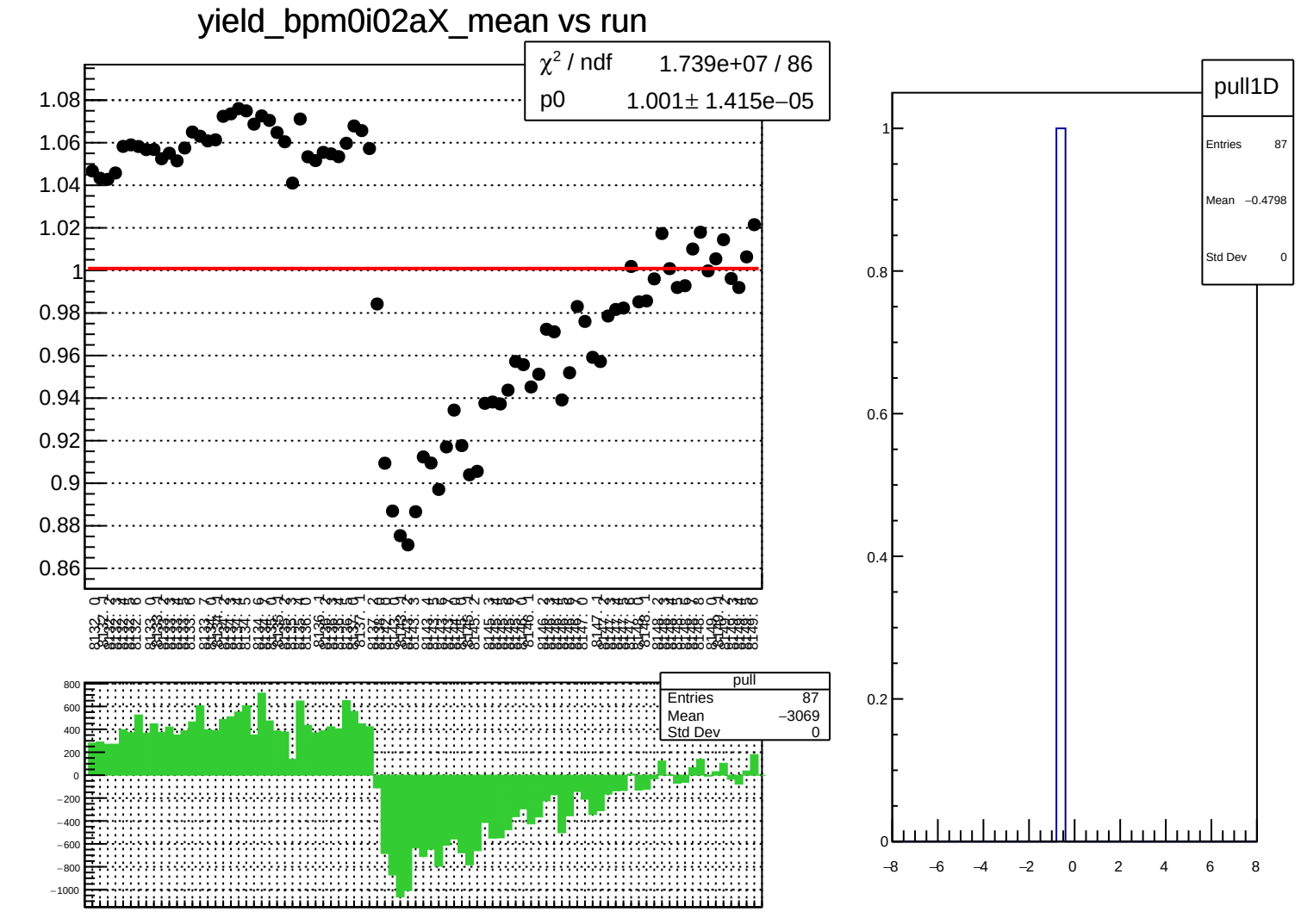

pull1D
Entries 87
Mean −0.8842
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

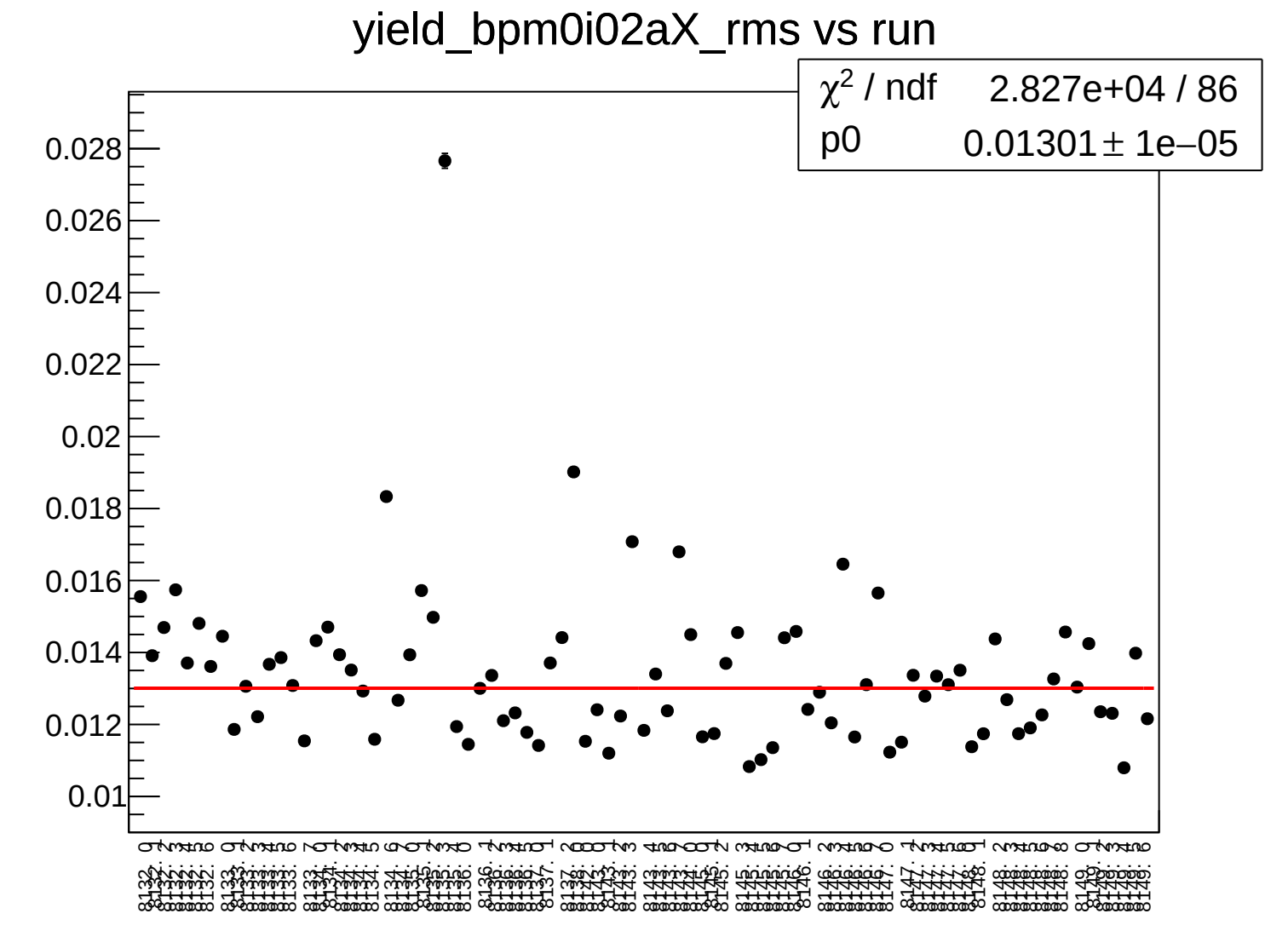

yield_bpm0i02X_rms vs run
χ² / ndf 2.203e+04 / 86
p0 0.007369 ± 5.657e−06
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006

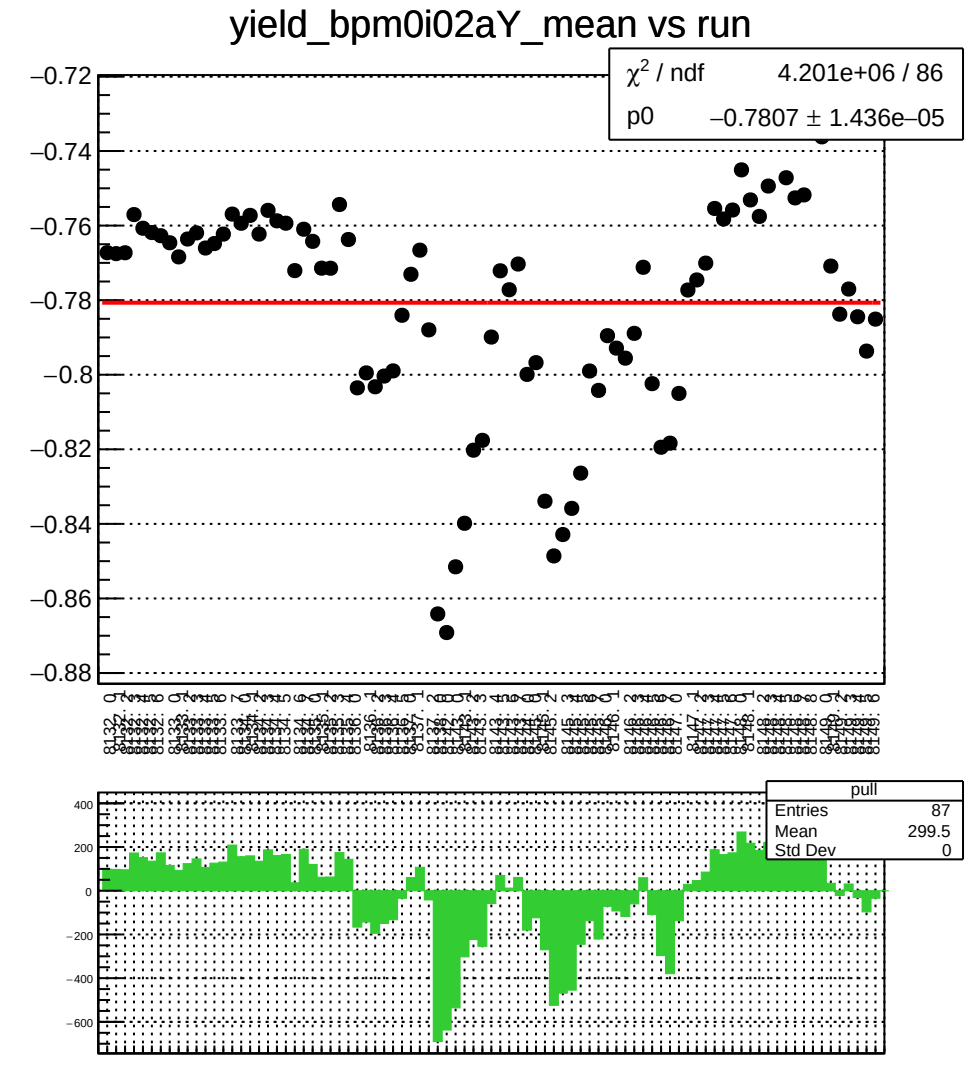

yield_bpm0i02Y_mean vs run
χ² / ndf 3.796e+06 / 86
p0 −3.675 ± 1.352e−05
−3.64
−3.66
−3.68
−3.7
−3.72
−3.74
−3.76
pull
Entries 87
Mean 579.1
Std Dev 0
400
200
0
−200
−400
−600

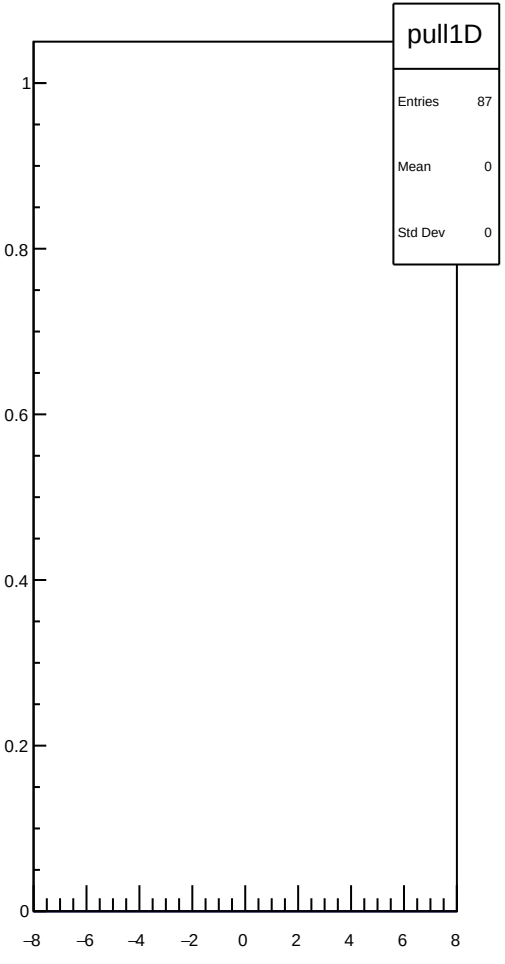

pull1D
Entries 87
Mean 5.738
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

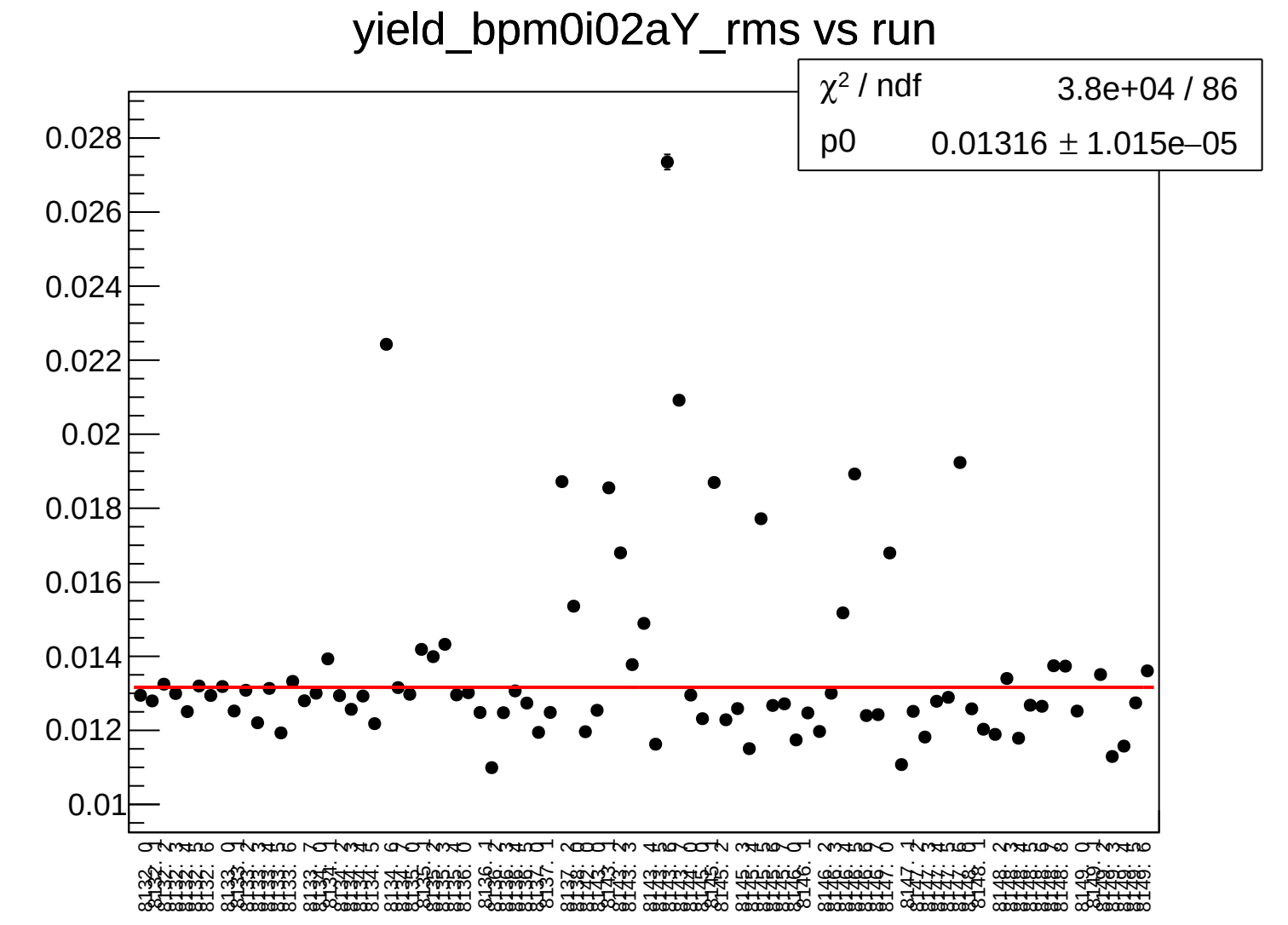

yield_bpm0i02Y_rms vs run
χ² / ndf 2.623e+04 / 86
p0 0.01243 ± 9.558e–06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

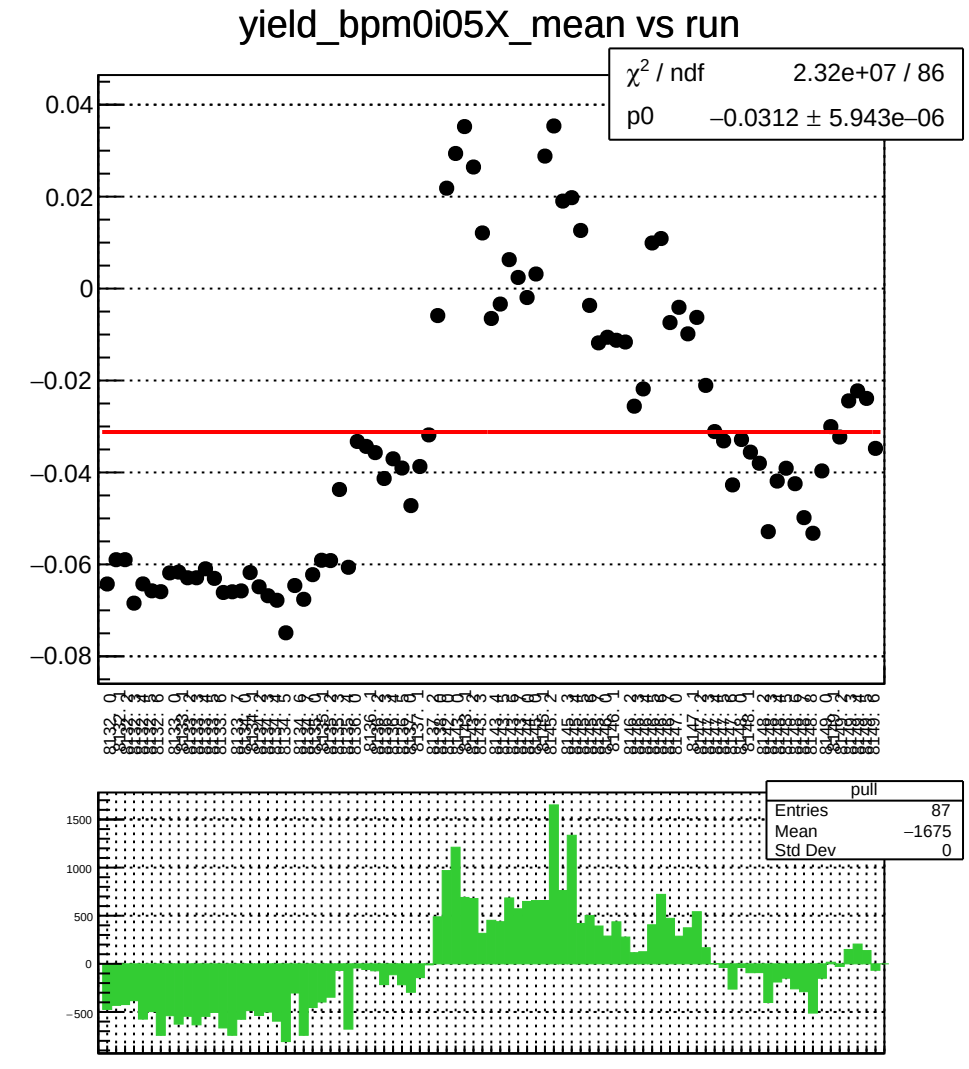

yield_bpm0i02aX_mean vs run
χ² / ndf 1.739e+07 / 86
p0 1.001± 1.415e−05
pull
Entries 87
Mean −3069
Std Dev 0
pull1D
Entries 87
Mean −0.4798
Std Dev 0

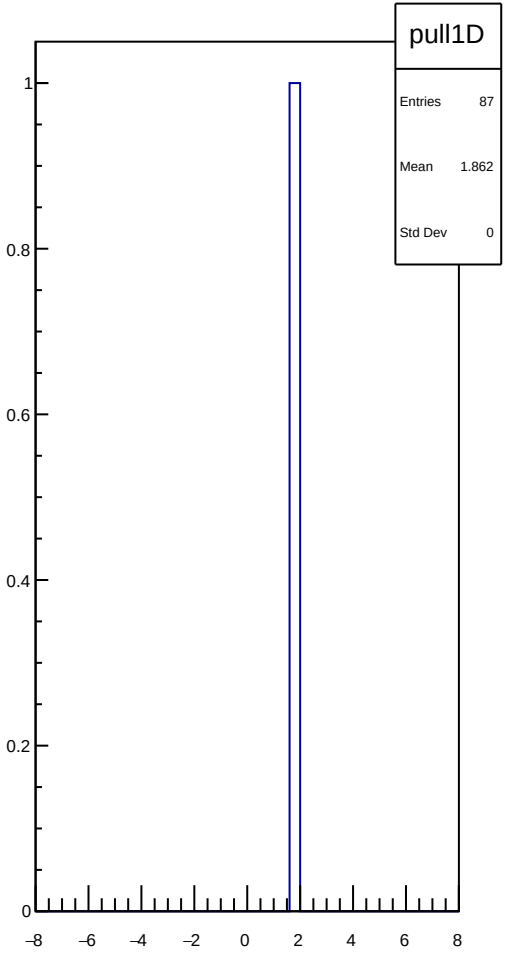

yield_bpm0i02aX_rms vs run
χ² / ndf 2.827e+04 / 86
p0 0.01301 ± 1e−05
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

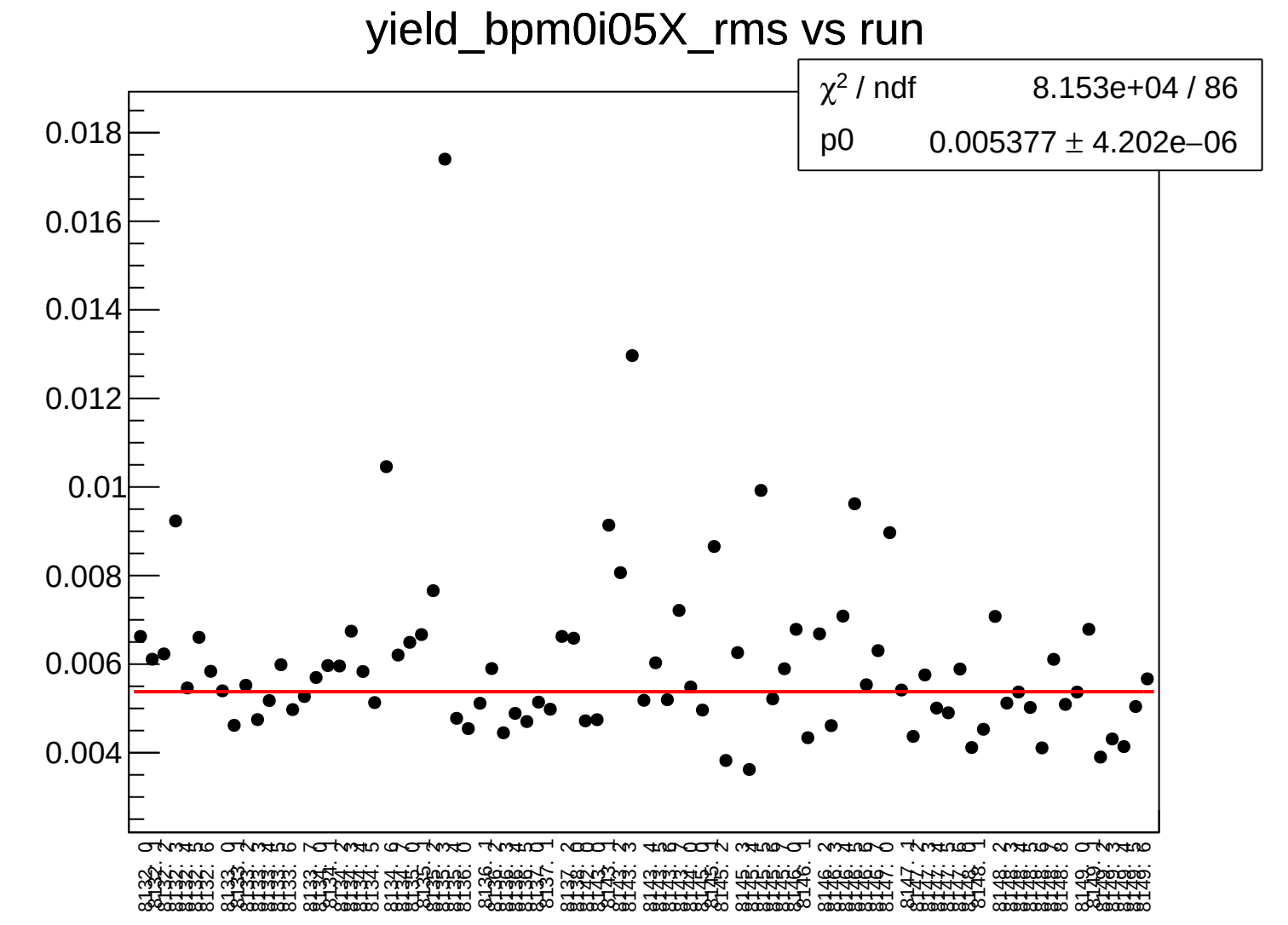

yield_bpm0i02aY_mean vs run
χ² / ndf 4.201e+06 / 86
p0 −0.7807 ± 1.436e−05
pull
Entries 87
Mean 299.5
Std Dev 0

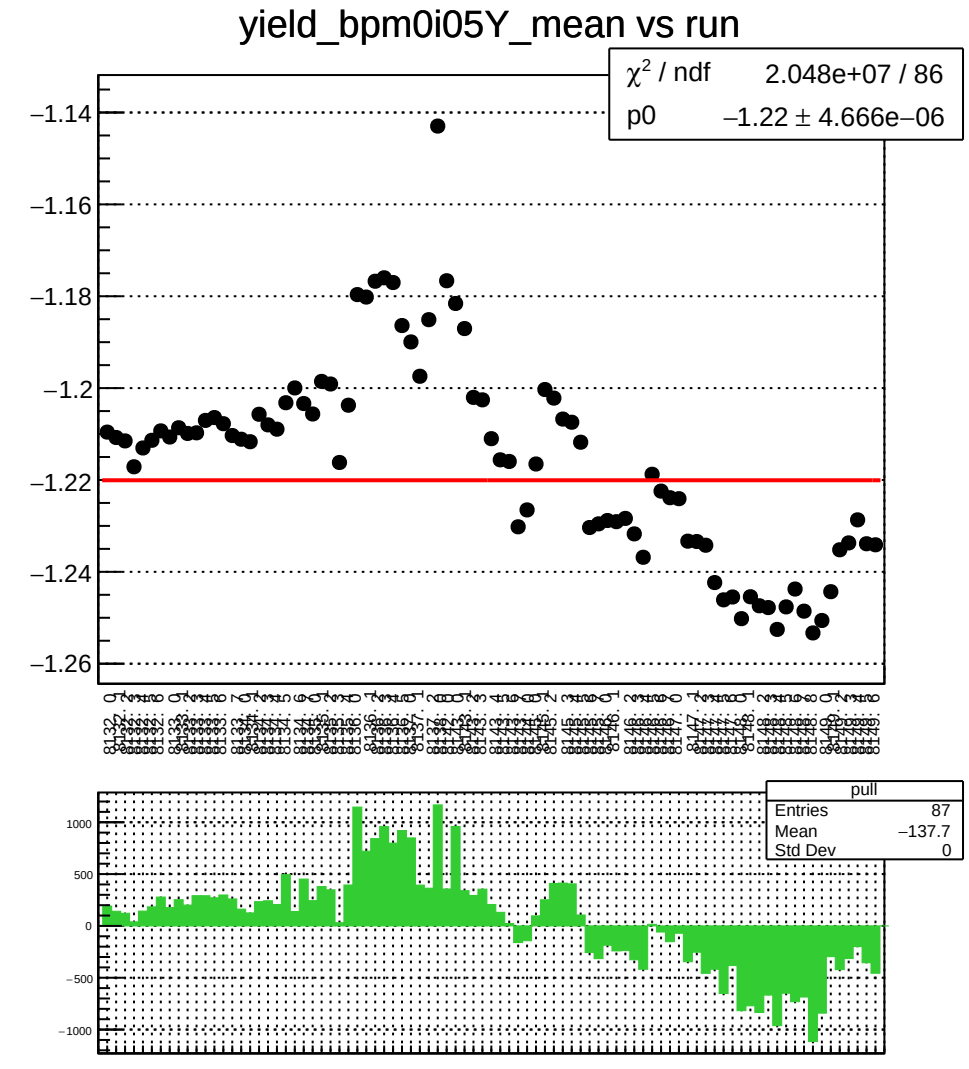

pull1D
Entries 87
Mean 0
Std Dev 0

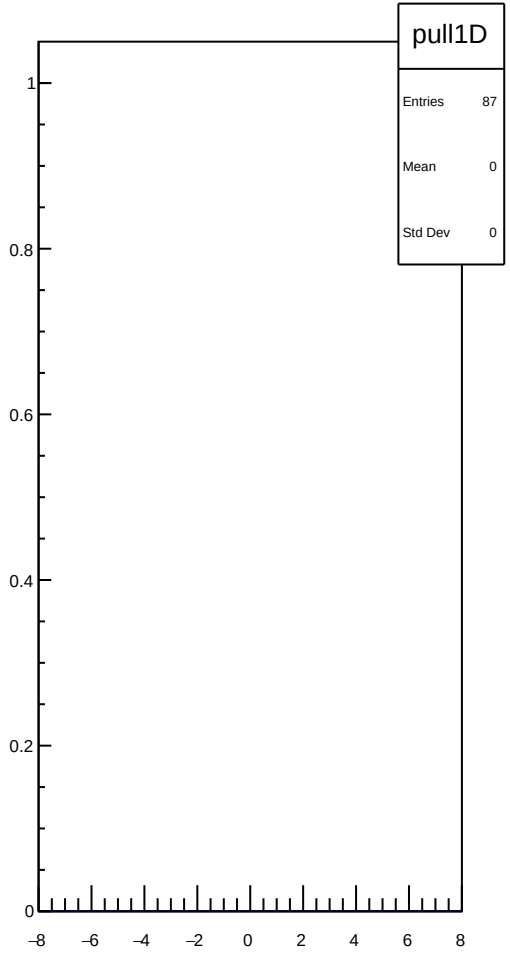

yield_bpm0i02aY_rms vs run
χ² / ndf 3.8e+04 / 86
p0 0.01316 ± 1.015e−05
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

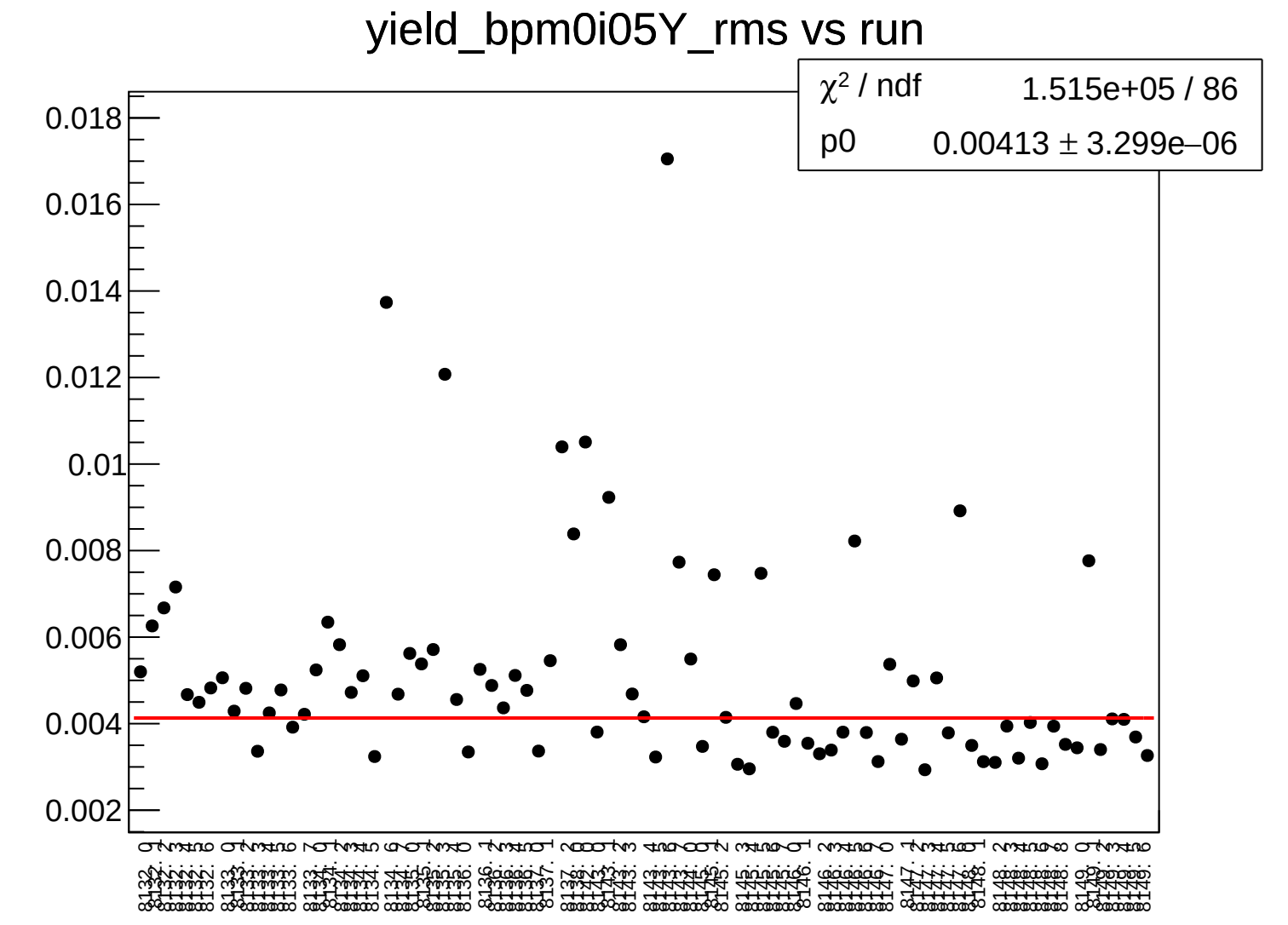

yield_bpm0i05X_mean vs run
χ² / ndf 2.32e+07 / 86
p0 −0.0312 ± 5.943e−06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 87
Mean −1675
Std Dev 0
1500
1000
500
0
−500

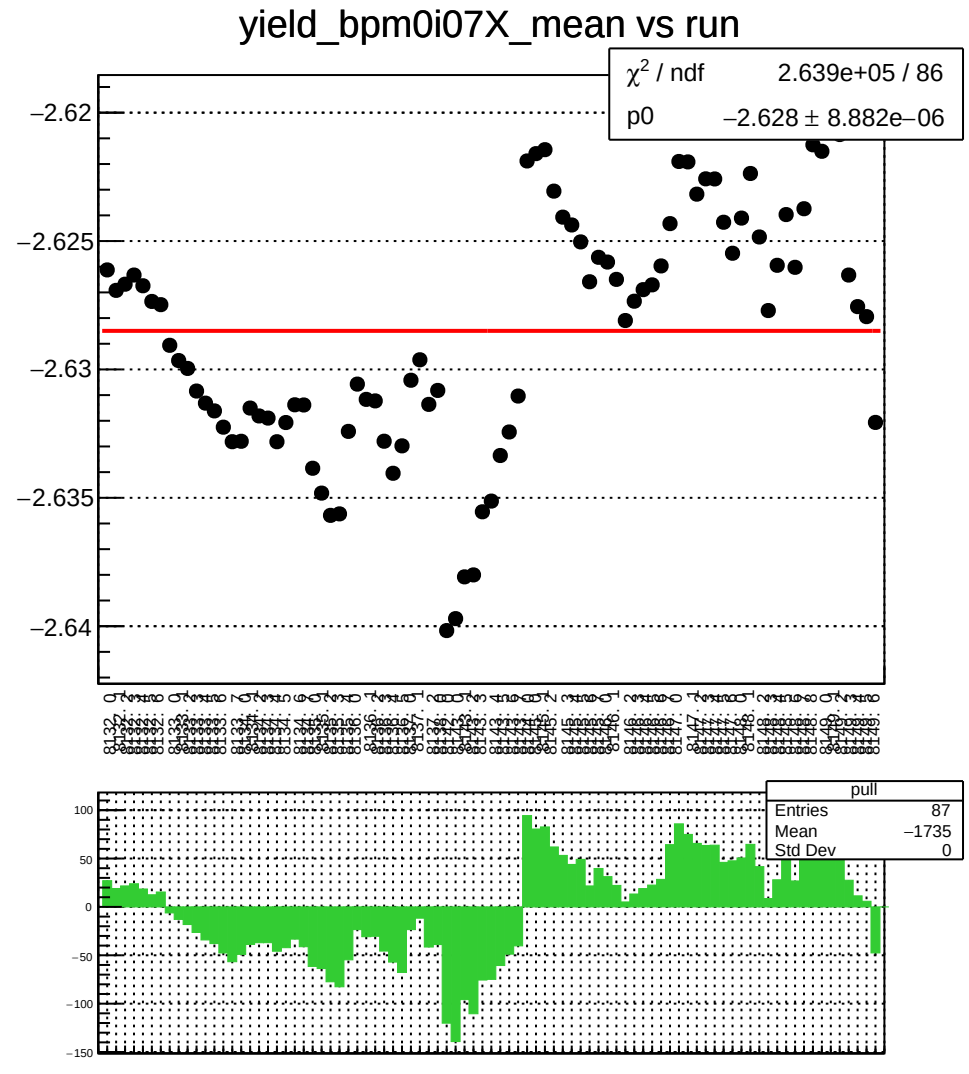

pull1D
Entries 87
Mean 1.862
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

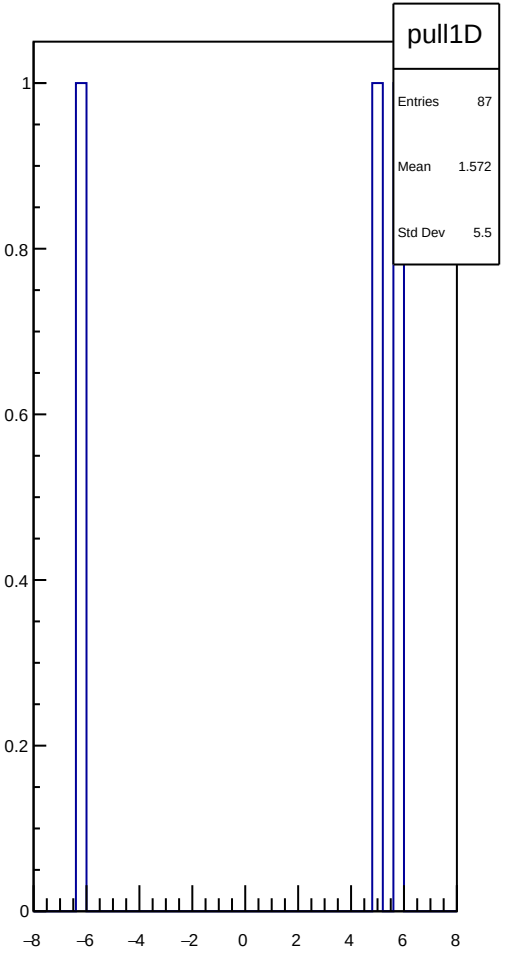

yield_bpm0i05X_rms vs run
χ^2 / ndf 8.153e+04 / 86
p0 0.005377 ± 4.202e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

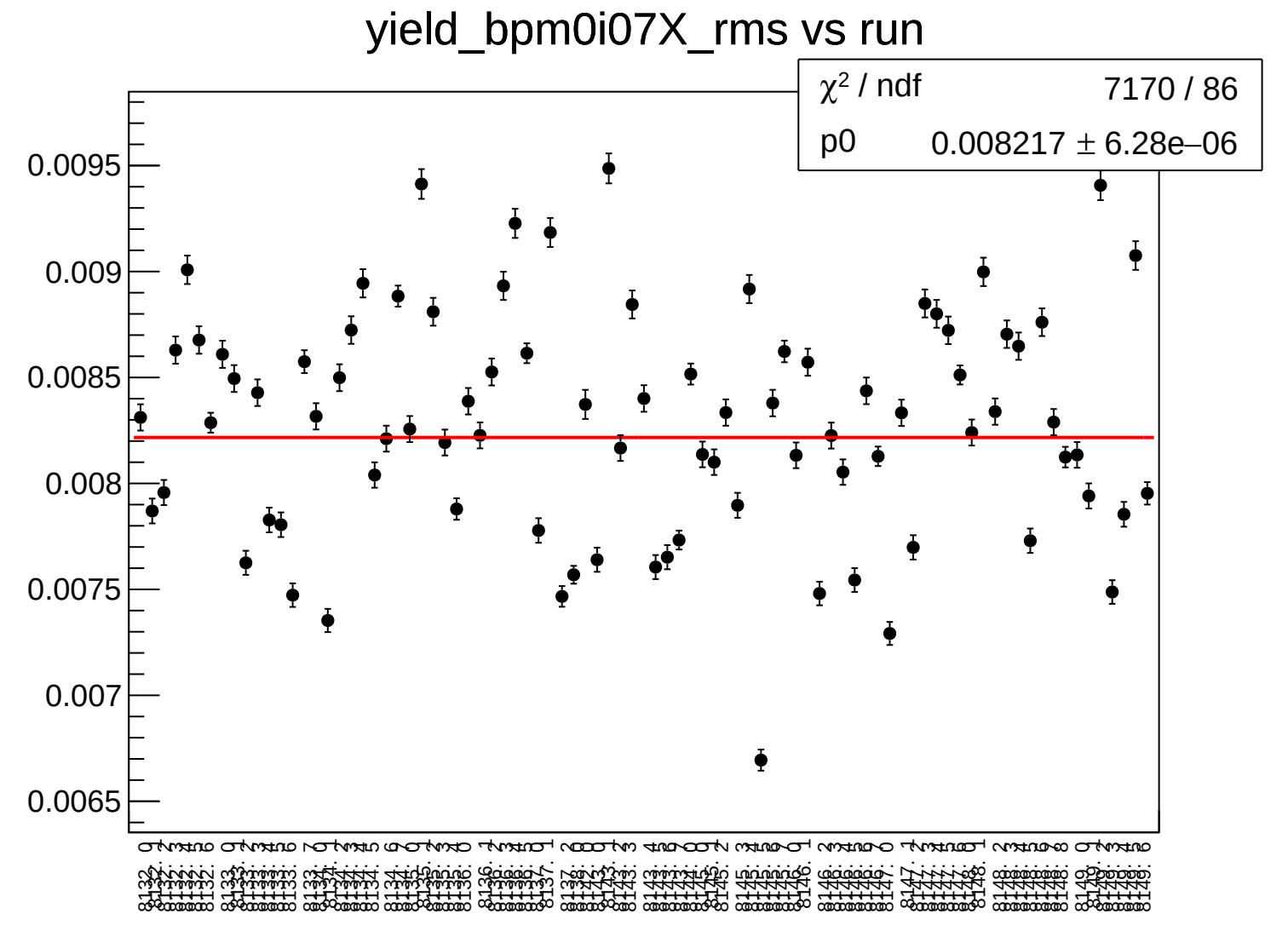

yield_bpm0i05Y_mean vs run
χ² / ndf 2.048e+07 / 86
p0 −1.22 ± 4.666e−06
−1.14
−1.16
−1.18
−1.2
−1.22
−1.24
−1.26
pull
Entries 87
Mean −137.7
Std Dev 0
1000
500
0
−500
−1000

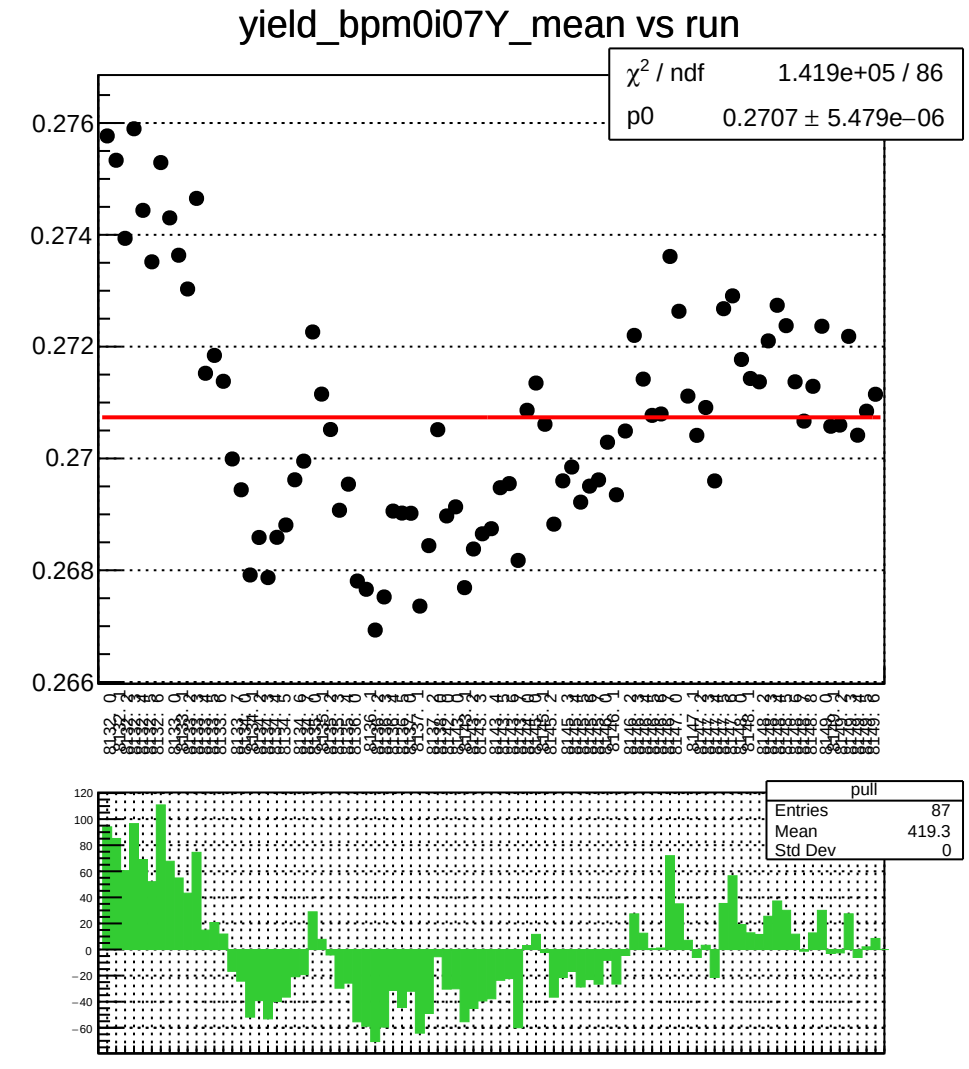

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

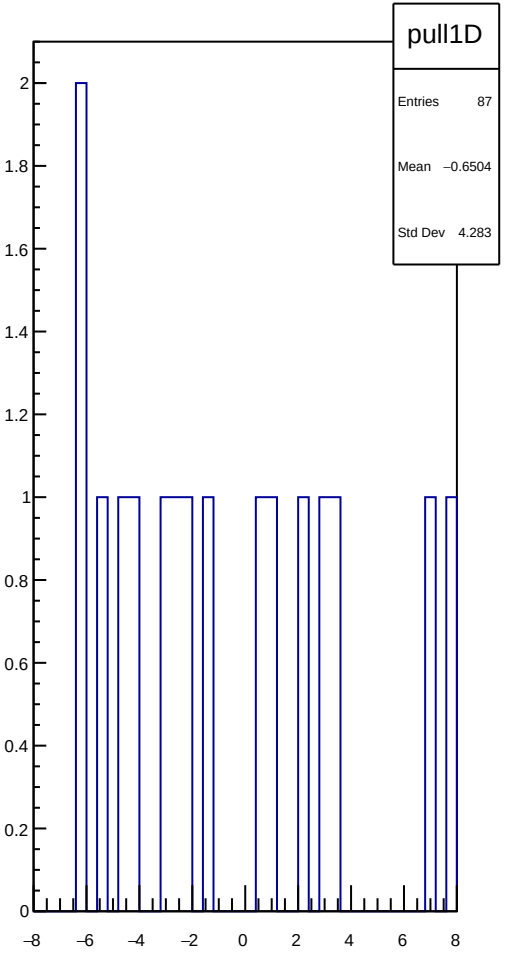

yield_bpm0i05Y_rms vs run
χ² / ndf 1.515e+05 / 86
p0 0.00413 ± 3.299e–06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

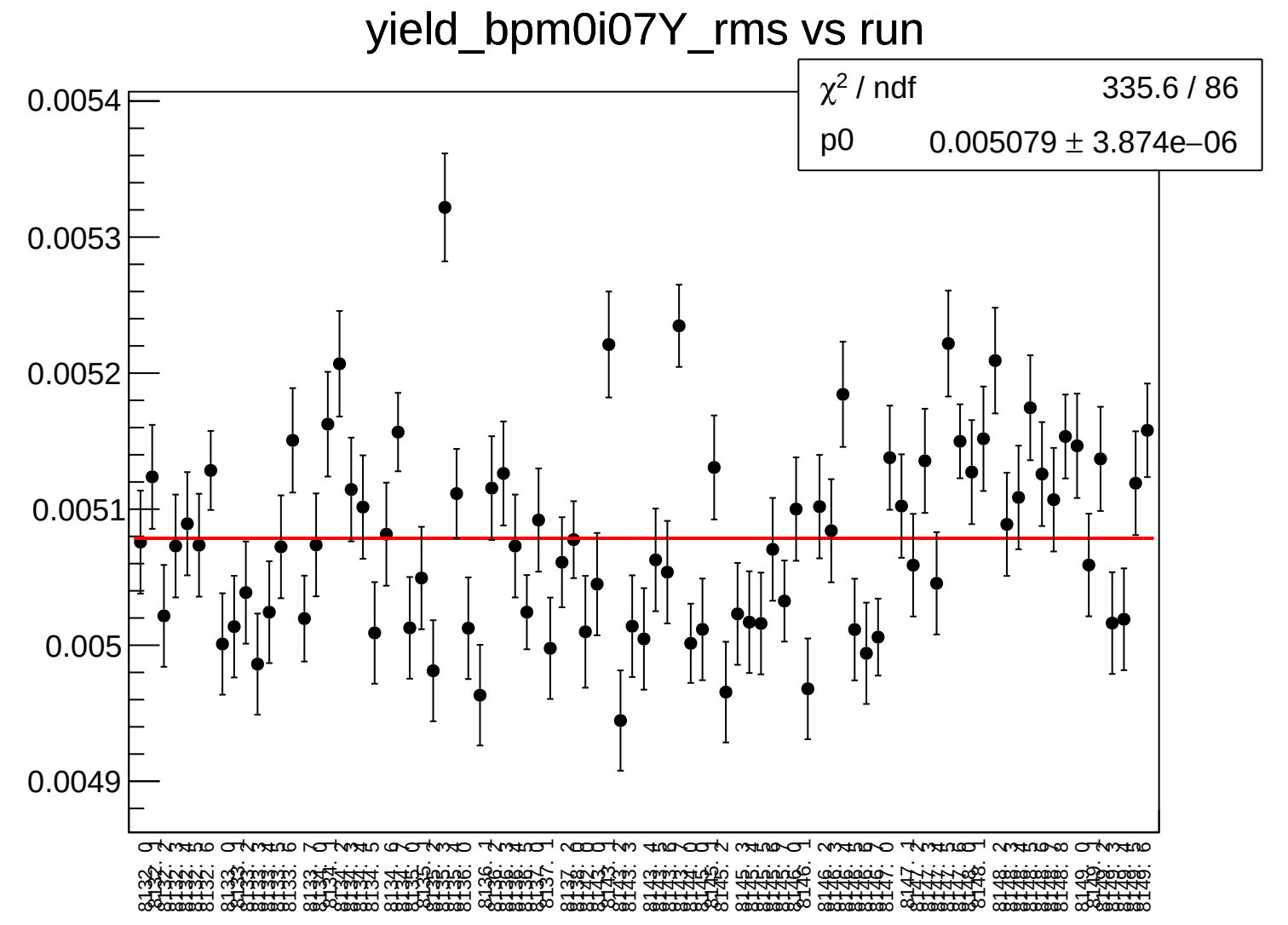

yield_bpm0i07X_mean vs run
χ² / ndf 2.639e+05 / 86
p0 −2.628 ± 8.882e−06
−2.62
−2.625
−2.63
−2.635
−2.64
pull
Entries 87
Mean −1735
Std Dev 0
100
50
0
−50
−100
−150

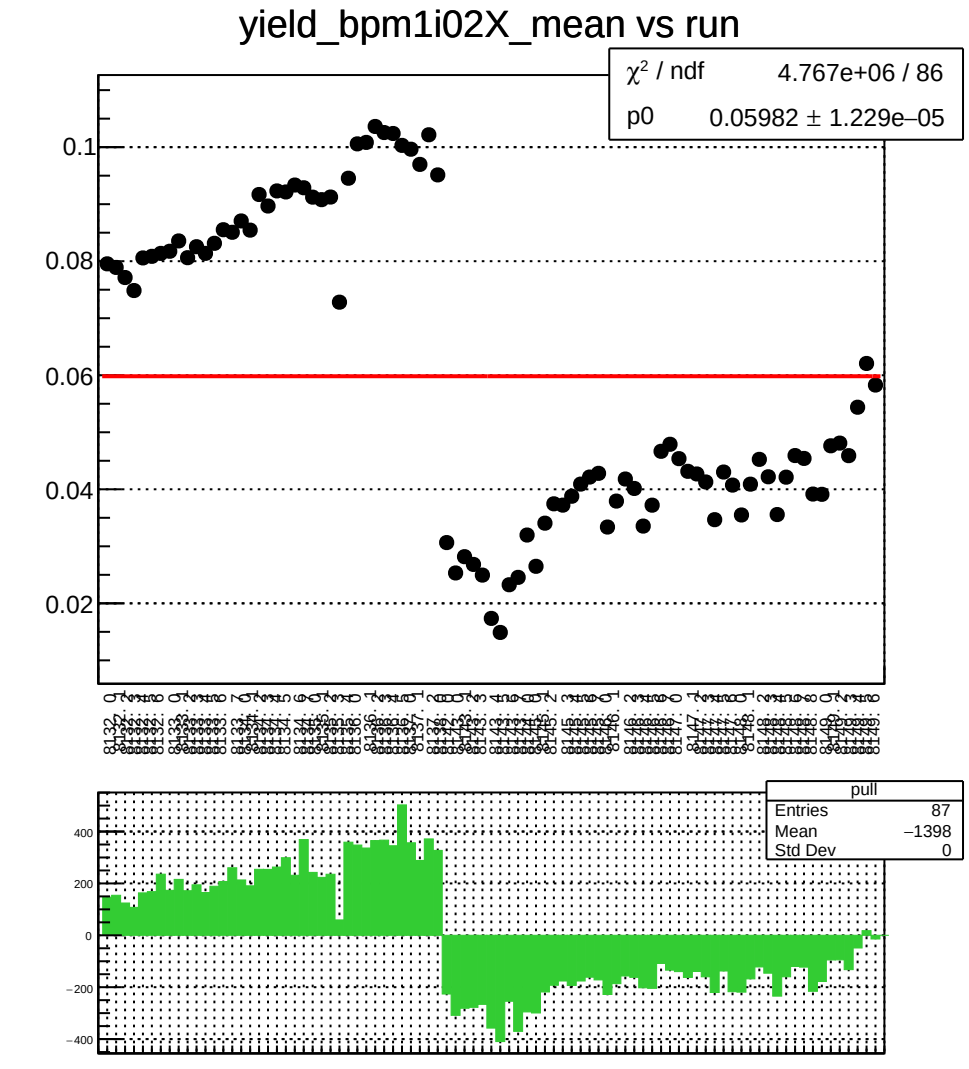

pull1D
Entries 87
Mean 1.572
Std Dev 5.5
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

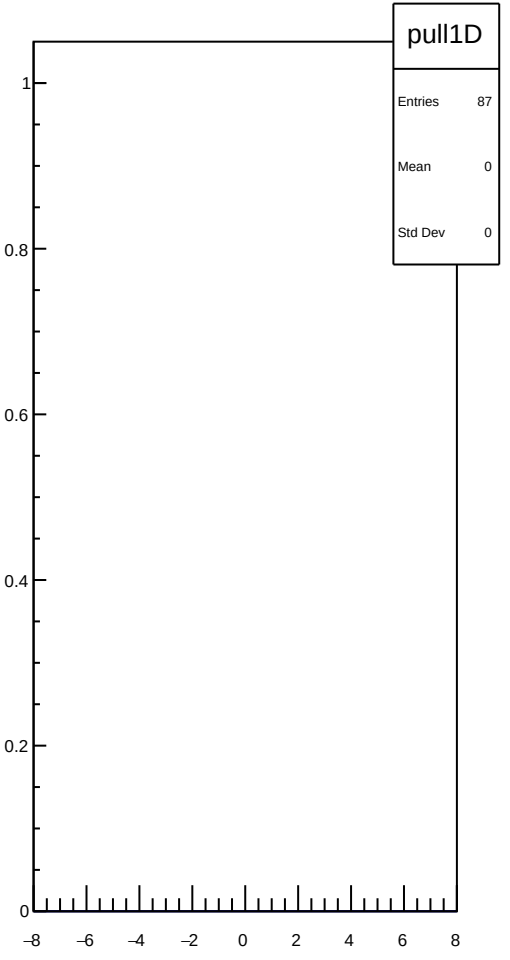

yield_bpm0i07X_rms vs run
χ² / ndf 7170 / 86
p0 0.008217 ± 6.28e–06
0.0095
0.009
0.0085
0.008
0.0075
0.007
0.0065

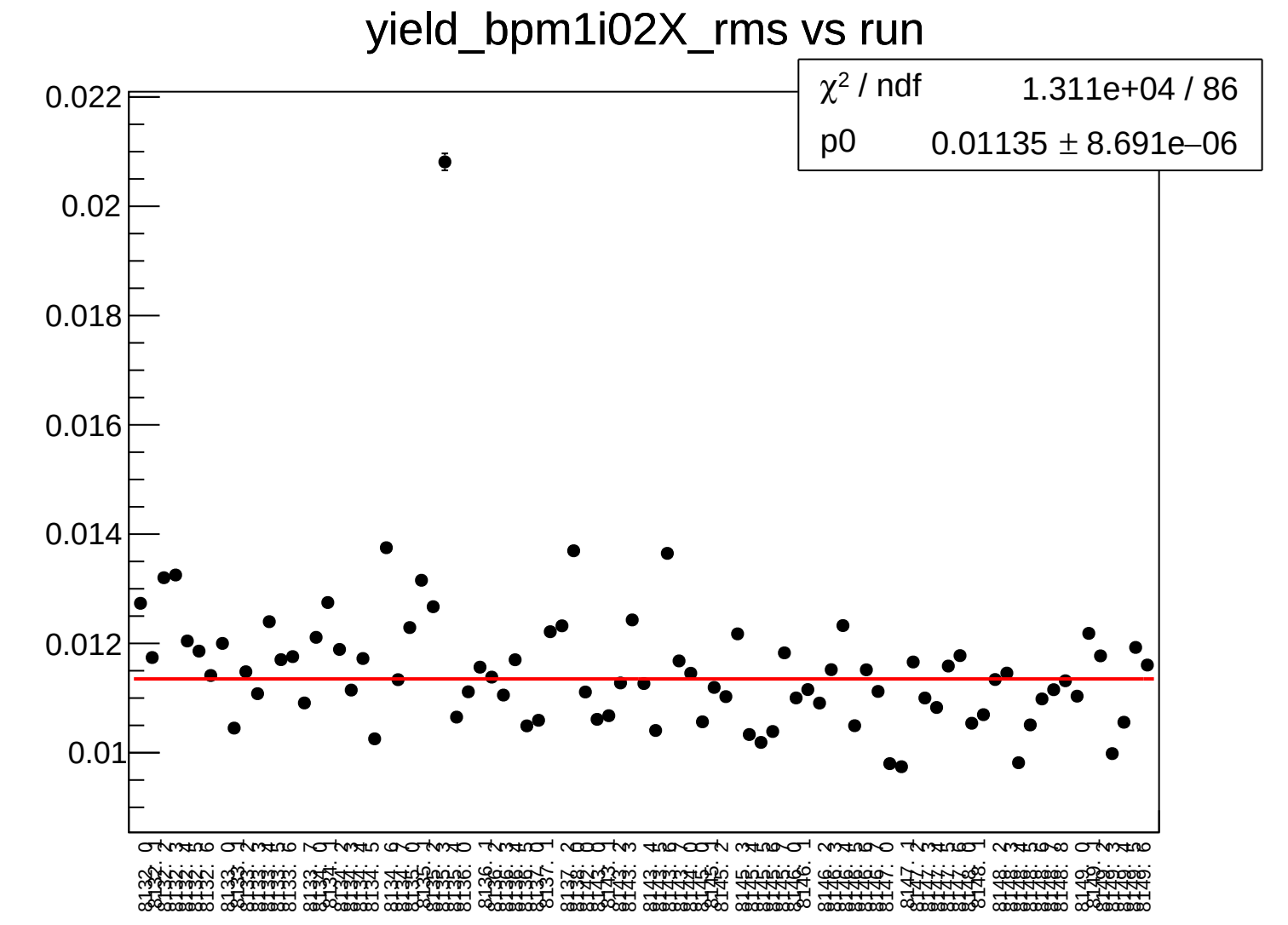

yield_bpm0i07Y_mean vs run
χ² / ndf 1.419e+05 / 86
p0 0.2707 ± 5.479e−06
0.276
0.274
0.272
0.27
0.268
0.266
pull
Entries 87
Mean 419.3
Std Dev 0
120
100
80
60
40
20
0
−20
−40
−60

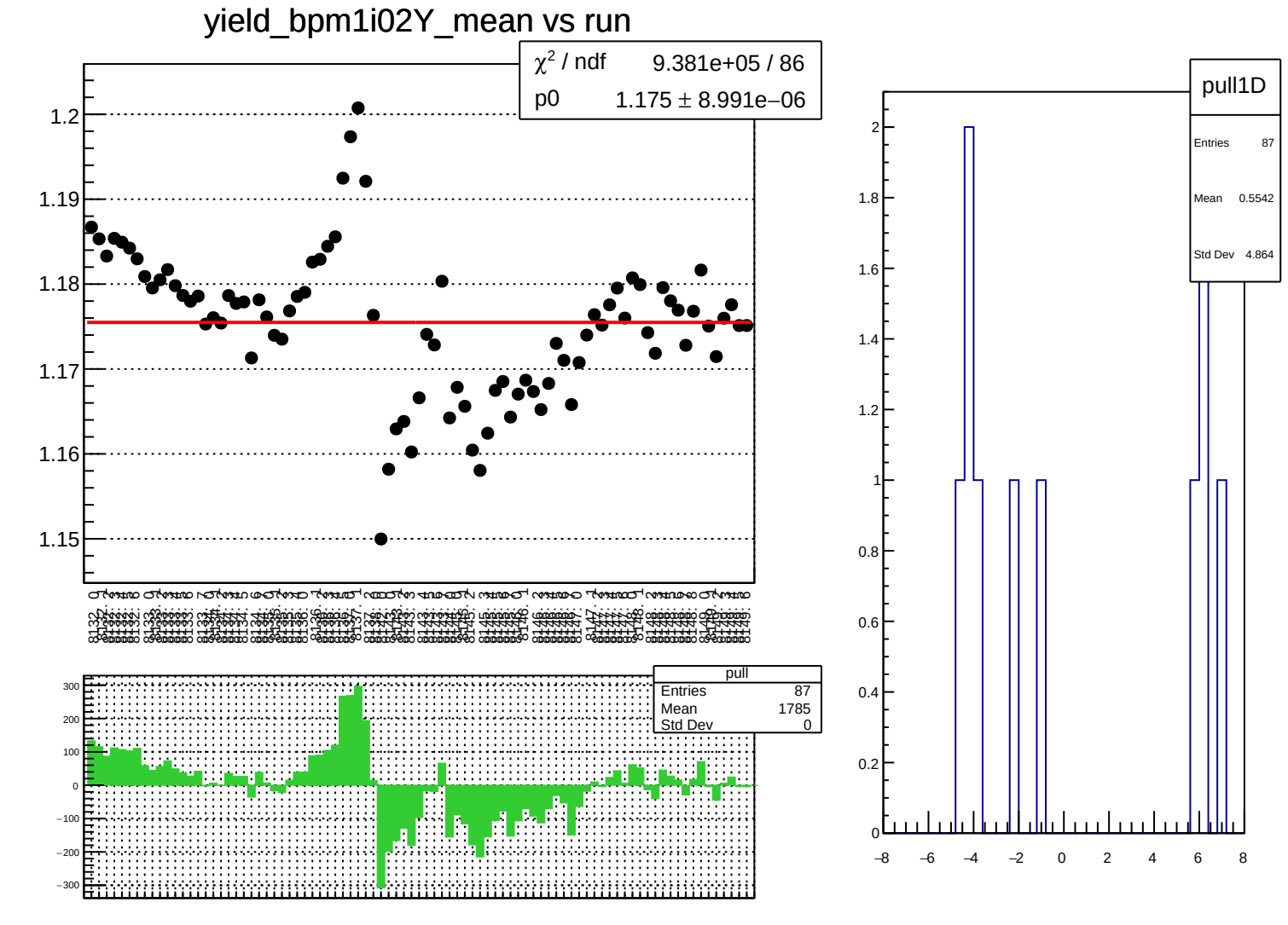

pull1D
Entries 87
Mean −0.6504
Std Dev 4.283
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

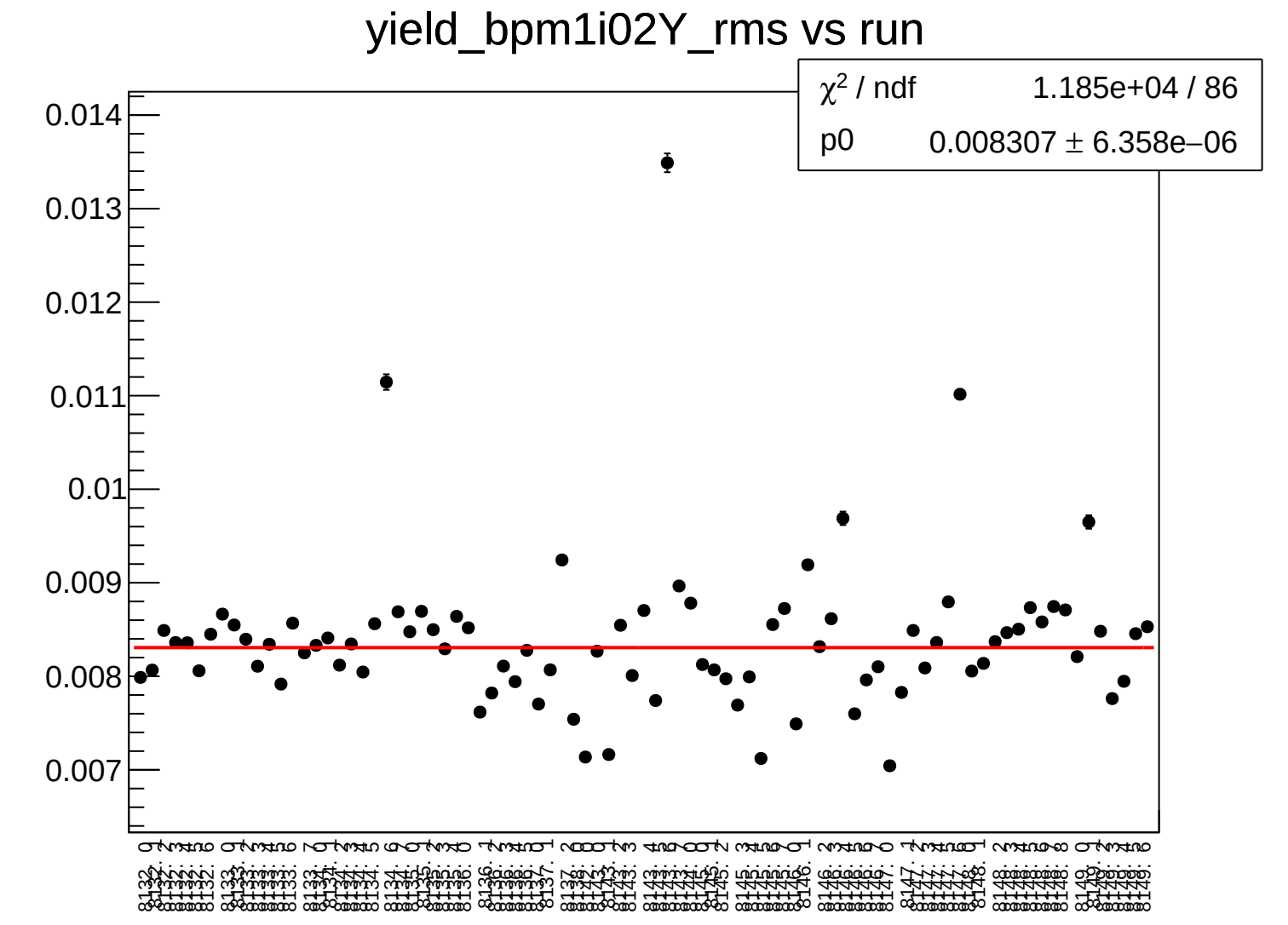

yield_bpm0i07Y_rms vs run
χ² / ndf 335.6 / 86
p0 0.005079 ± 3.874e−06
0.0054
0.0053
0.0052
0.0051
0.005
0.0049

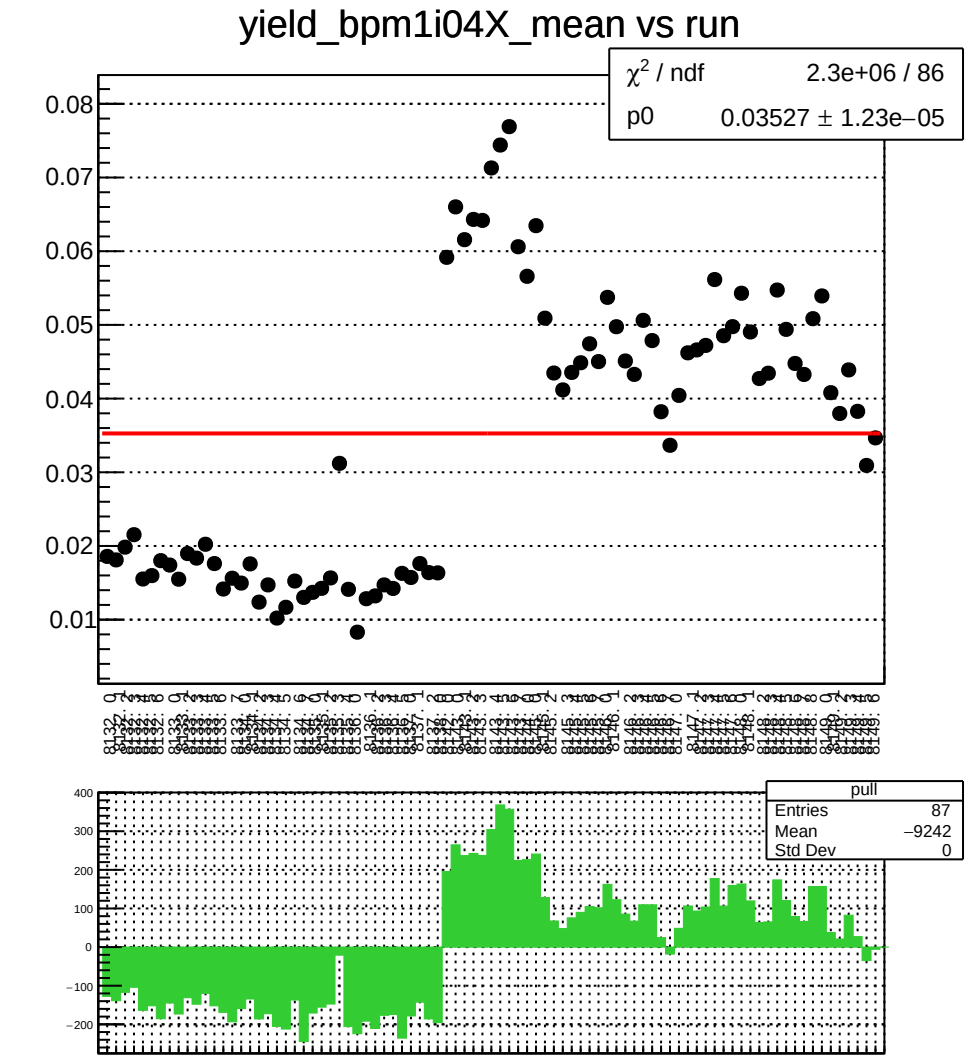

yield_bpm1i02X_mean vs run
χ² / ndf 4.767e+06 / 86
p0 0.05982 ± 1.229e−05
0.1
0.08
0.06
0.04
0.02
pull
Entries 87
Mean −1398
Std Dev 0
400
200
0
−200
−400

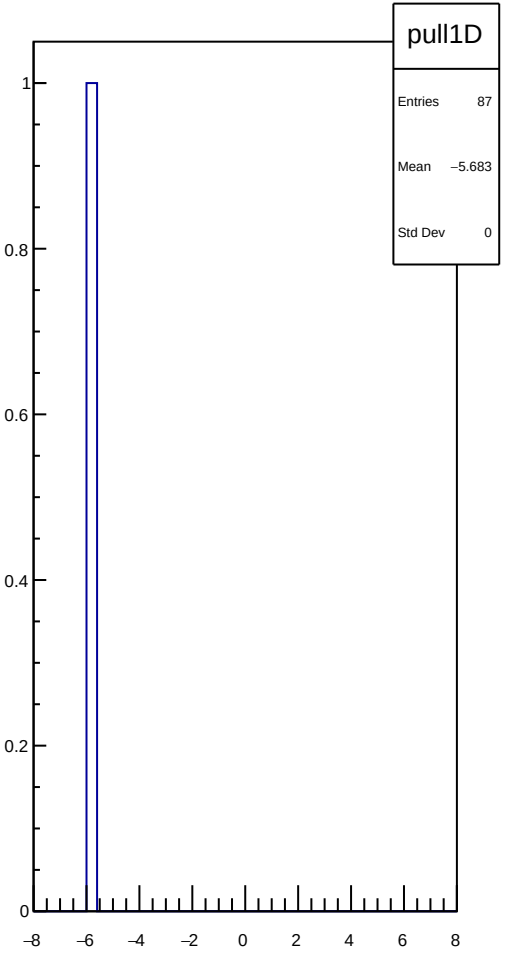

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

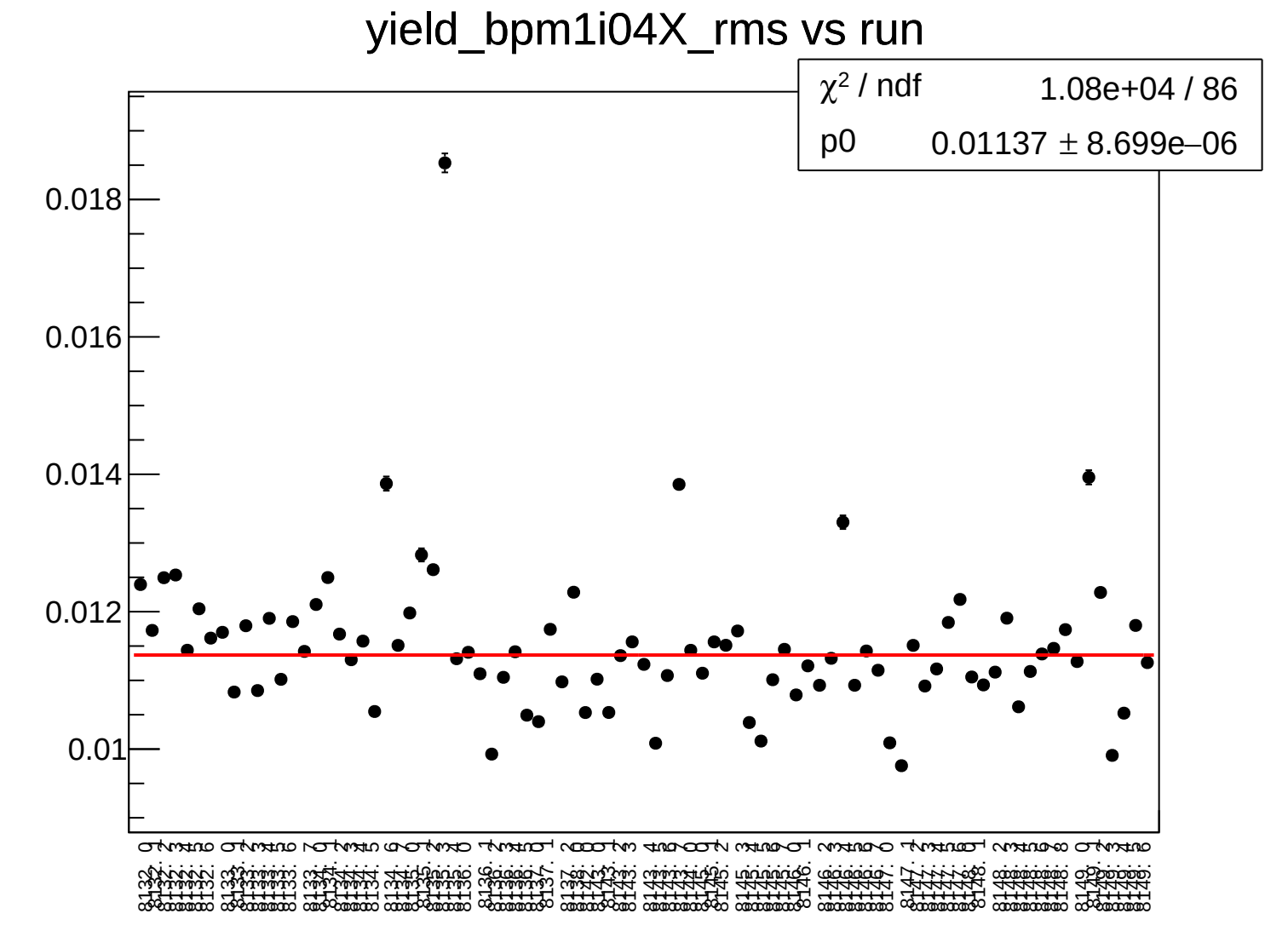

yield_bpm1i02X_rms vs run
χ² / ndf 1.311e+04 / 86
p0 0.01135 ± 8.691e–06
0.022
0.02
0.018
0.016
0.014
0.012
0.01

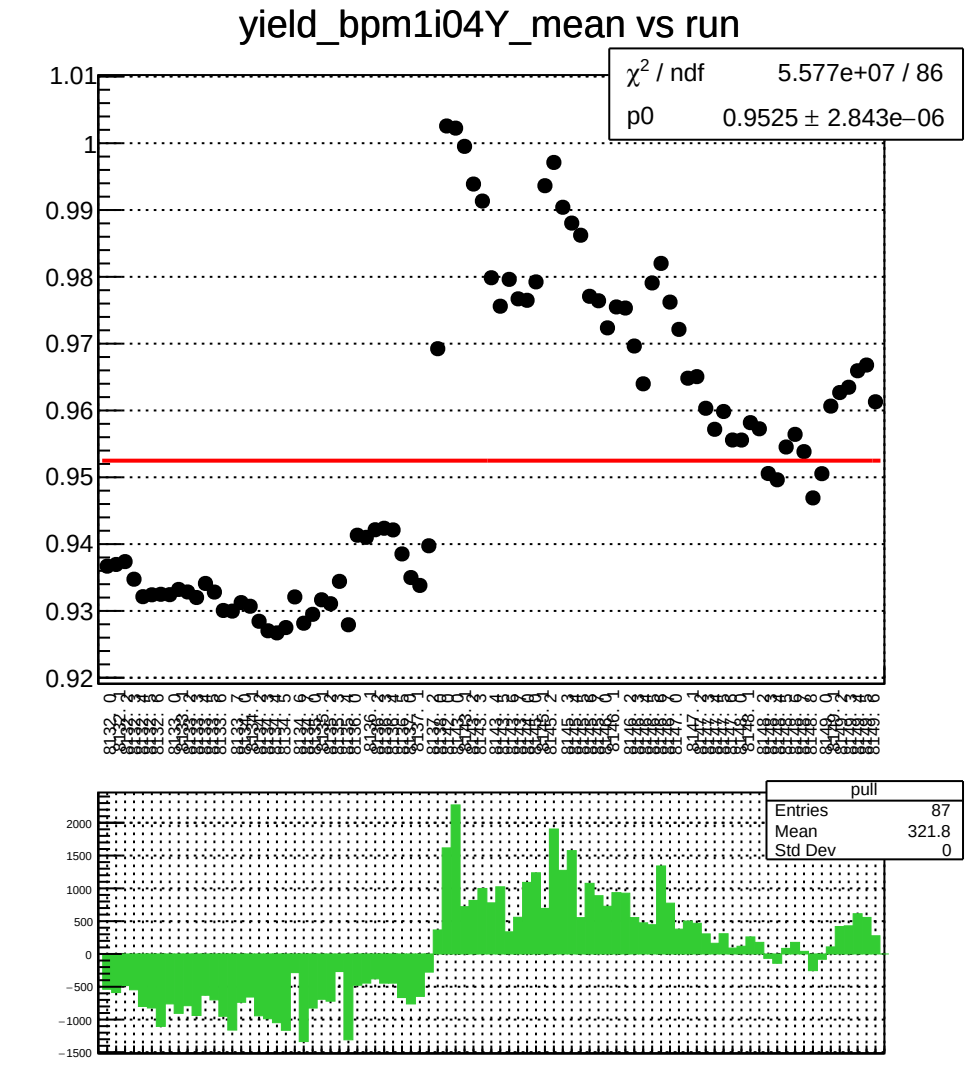

yield_bpm1i02Y_mean vs run
χ² / ndf 9.381e+05 / 86
p0 1.175 ± 8.991e−06
1.2
1.19
1.18
1.17
1.16
1.15
pull
Entries 87
Mean 1785
Std Dev 0
300
200
100
0
−100
−200
−300
pull1D
Entries 87
Mean 0.5542
Std Dev 4.864
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

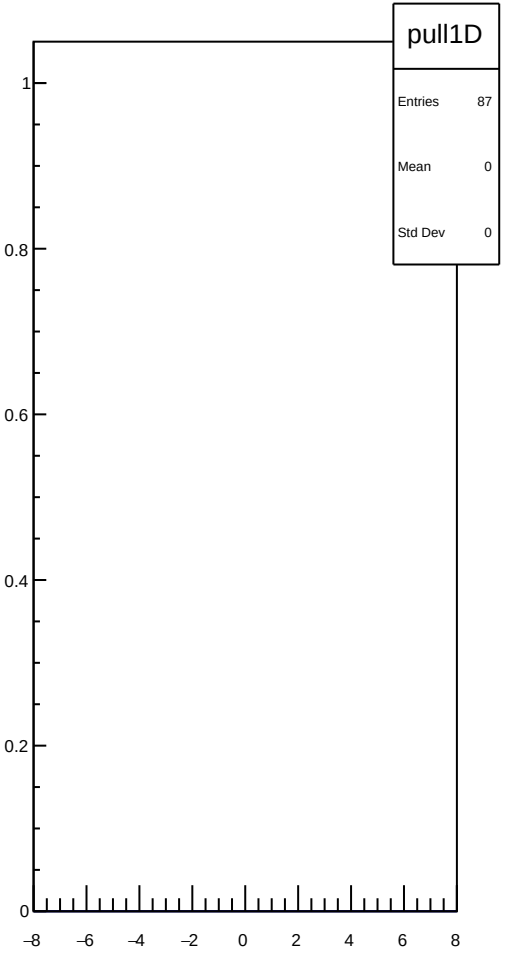

yield_bpm1i02Y_rms vs run
χ² / ndf 1.185e+04 / 86
p0 0.008307 ± 6.358e−06
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007

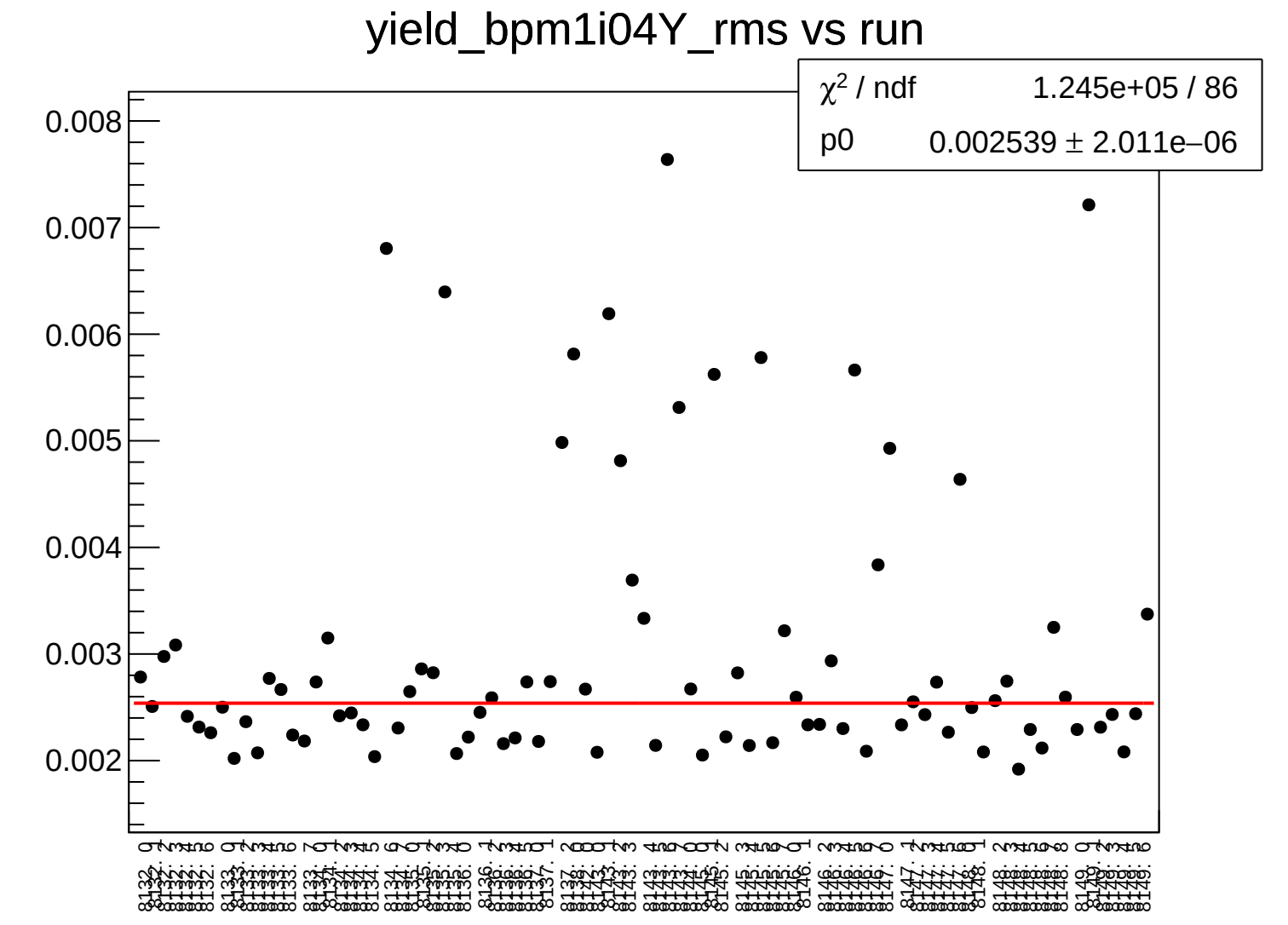

yield_bpm1i04X_mean vs run
χ² / ndf 2.3e+06 / 86
p0 0.03527 ± 1.23e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
pull
Entries 87
Mean −9242
Std Dev 0
400
300
200
100
0
−100
−200

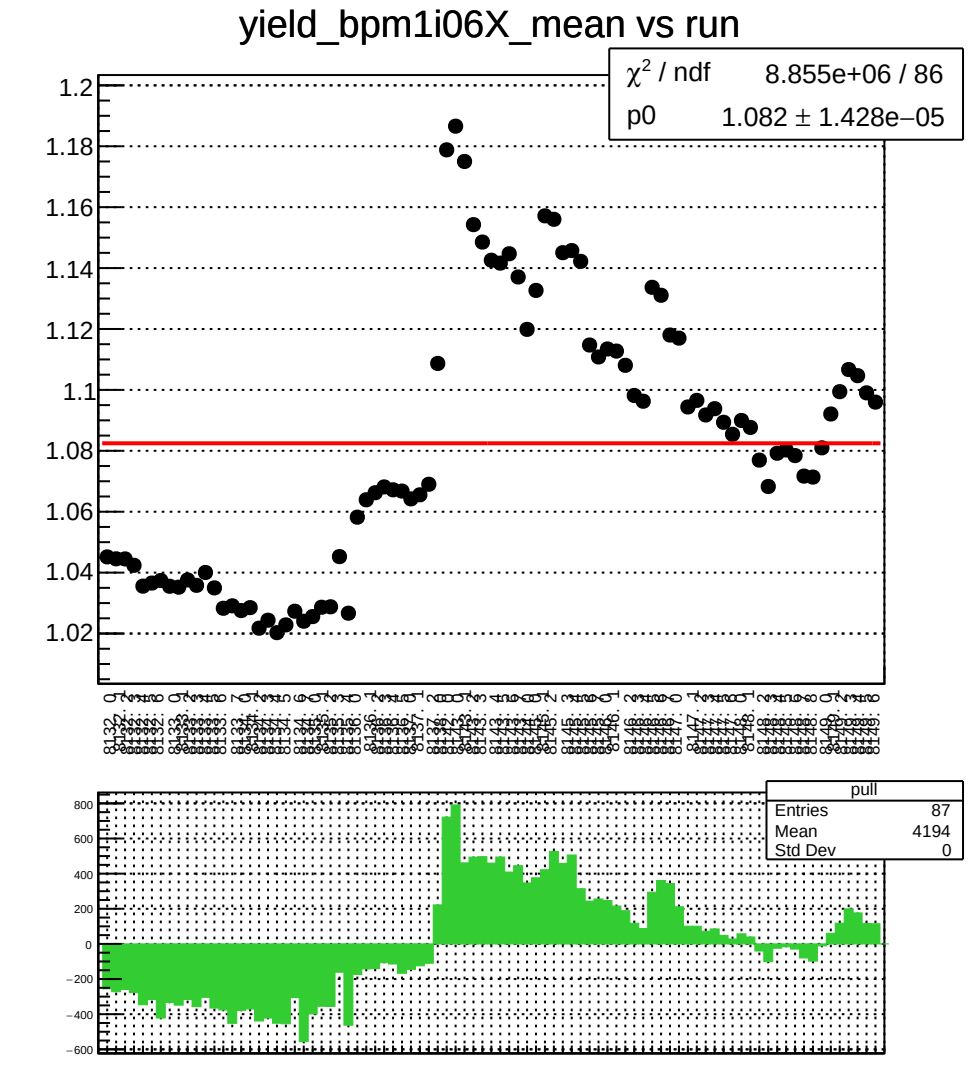

pull1D
Entries 87
Mean −5.683
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

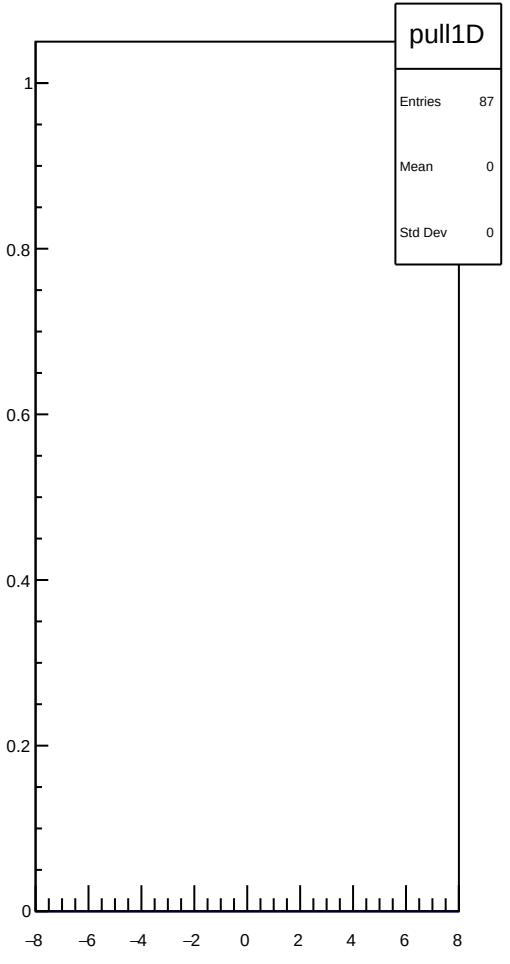

yield_bpm1i04X_rms vs run
χ² / ndf 1.08e+04 / 86
p0 0.01137 ± 8.699e–06
0.018
0.016
0.014
0.012
0.01

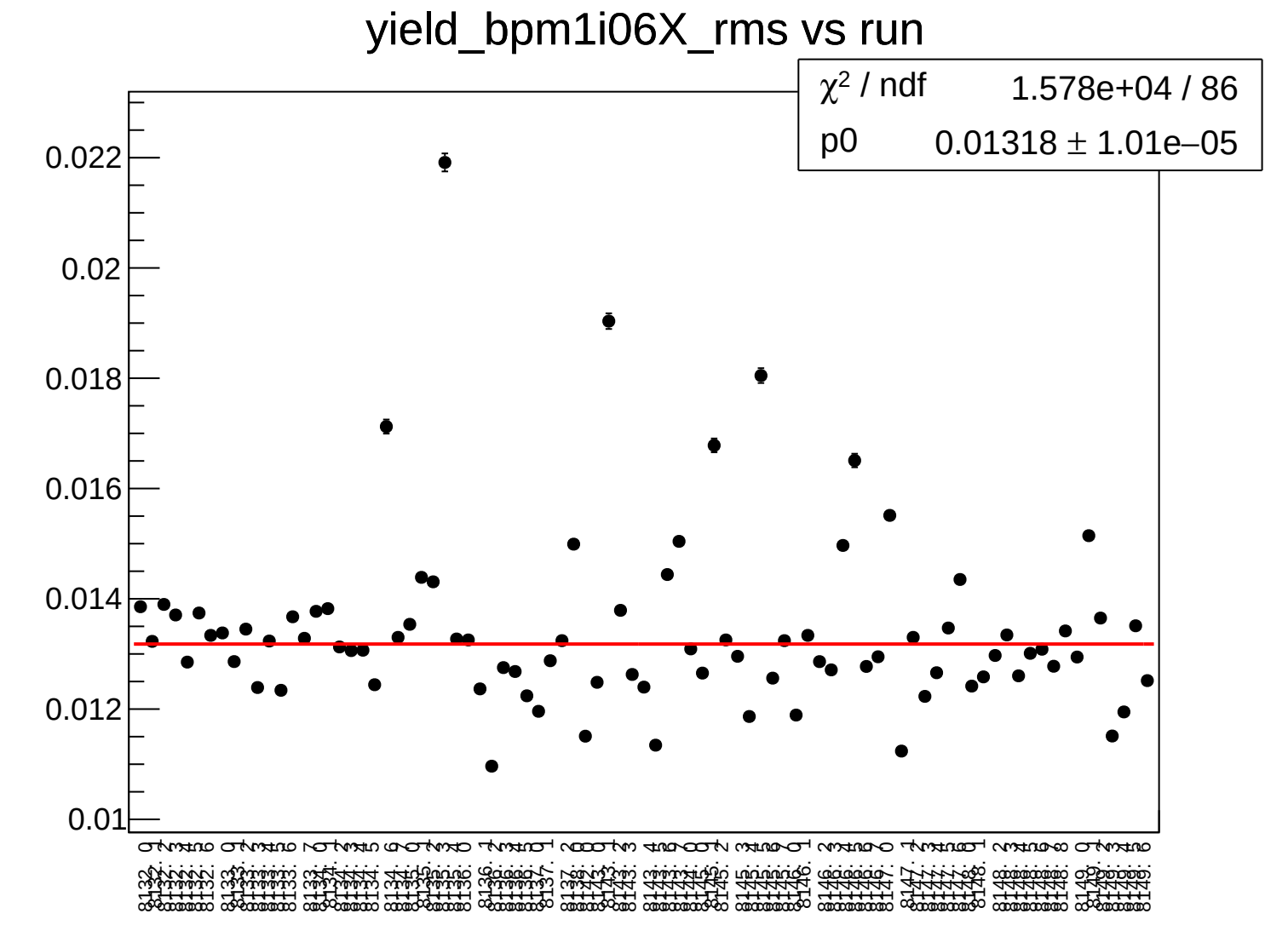

yield_bpm1i04Y_mean vs run
χ² / ndf 5.577e+07 / 86
p0 0.9525 ± 2.843e−06
pull
Entries 87
Mean 321.8
Std Dev 0

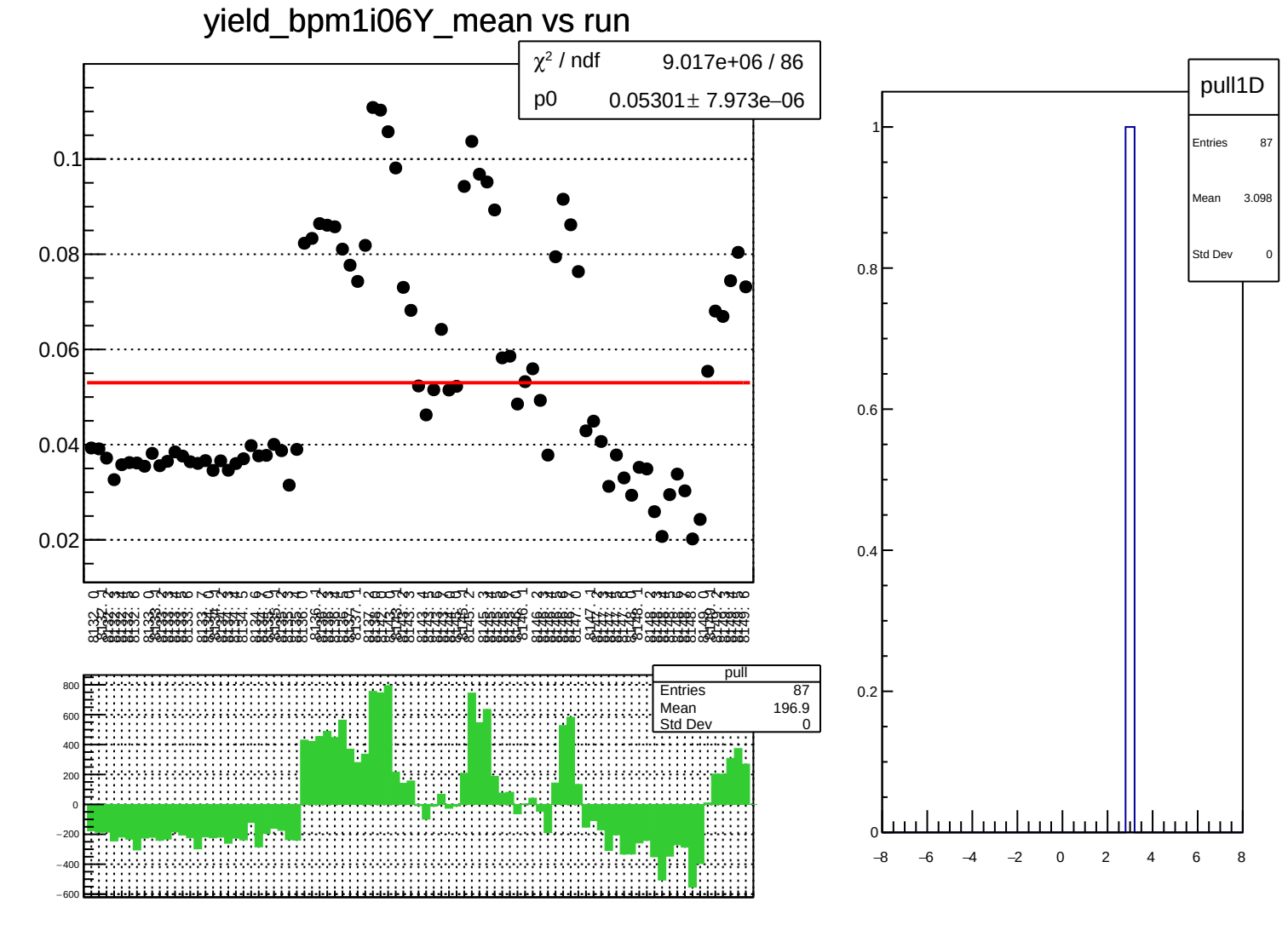

pull1D
Entries 87
Mean 0
Std Dev 0

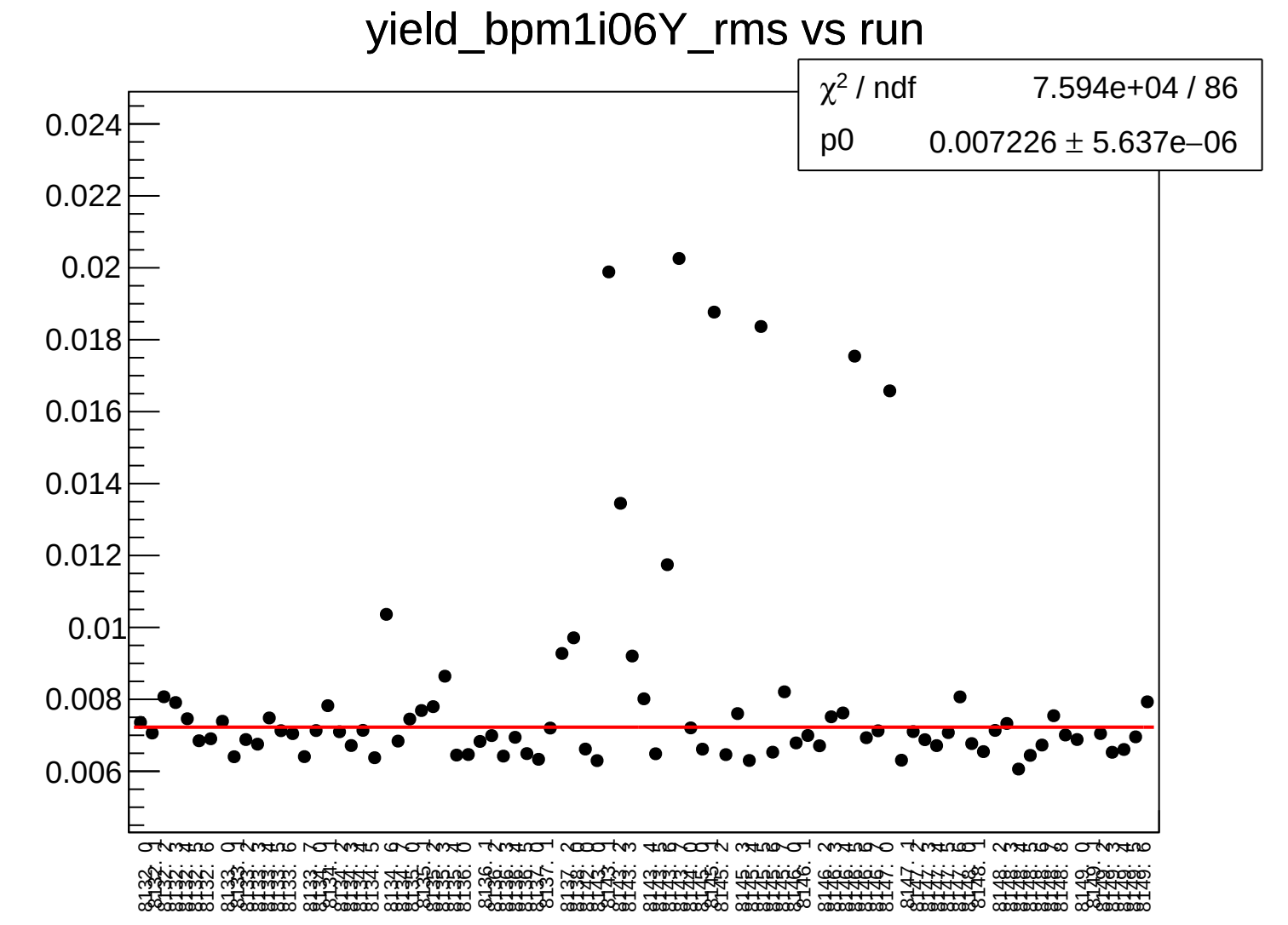

yield_bpm1i04Y_rms vs run
χ² / ndf 1.245e+05 / 86
p0 0.002539 ± 2.011e−06
0.008
0.007
0.006
0.005
0.004
0.003
0.002

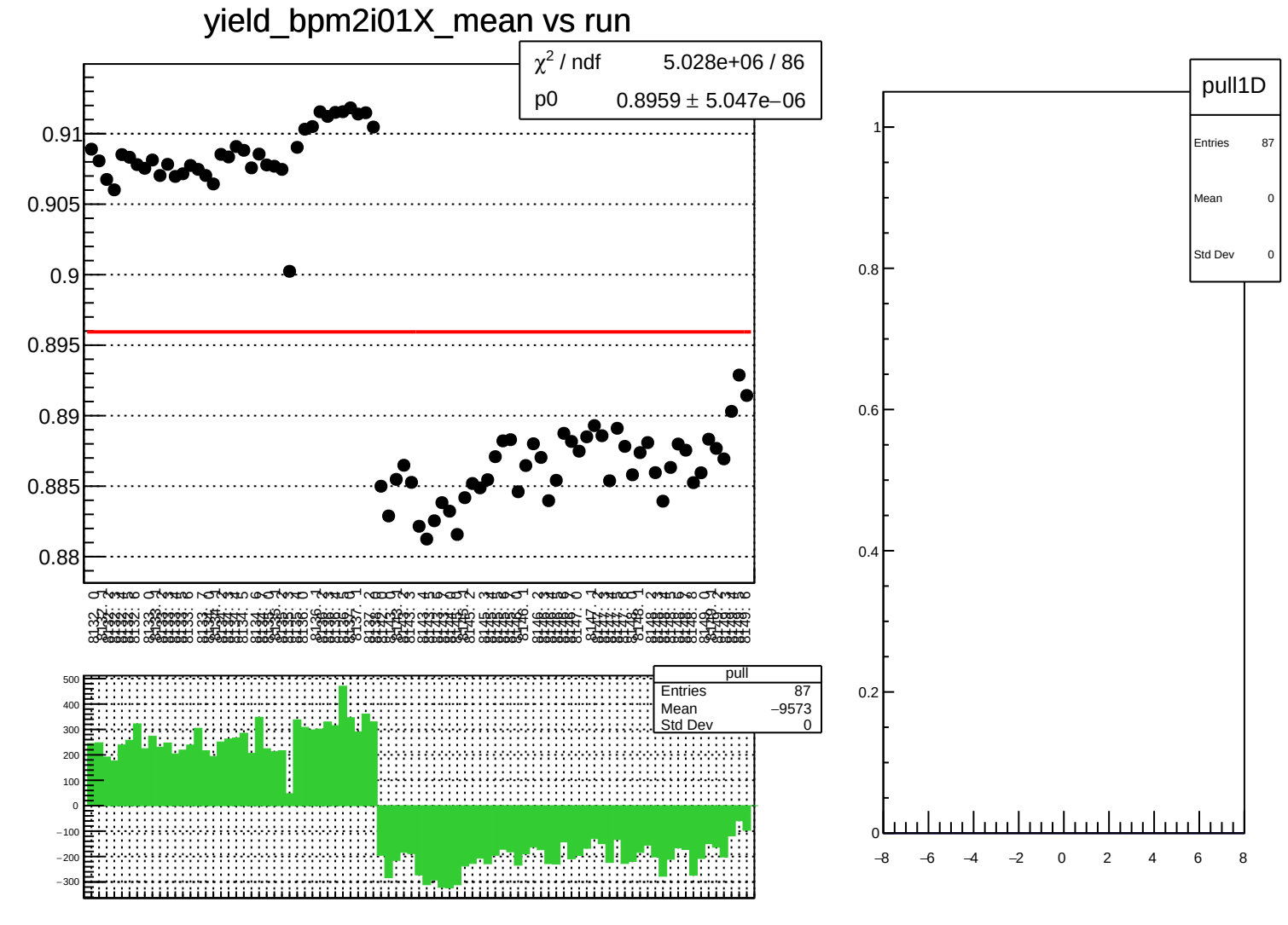

yield_bpm1i06X_mean vs run
χ² / ndf 8.855e+06 / 86
p0 1.082 ± 1.428e−05
pull
Entries 87
Mean 4194
Std Dev 0

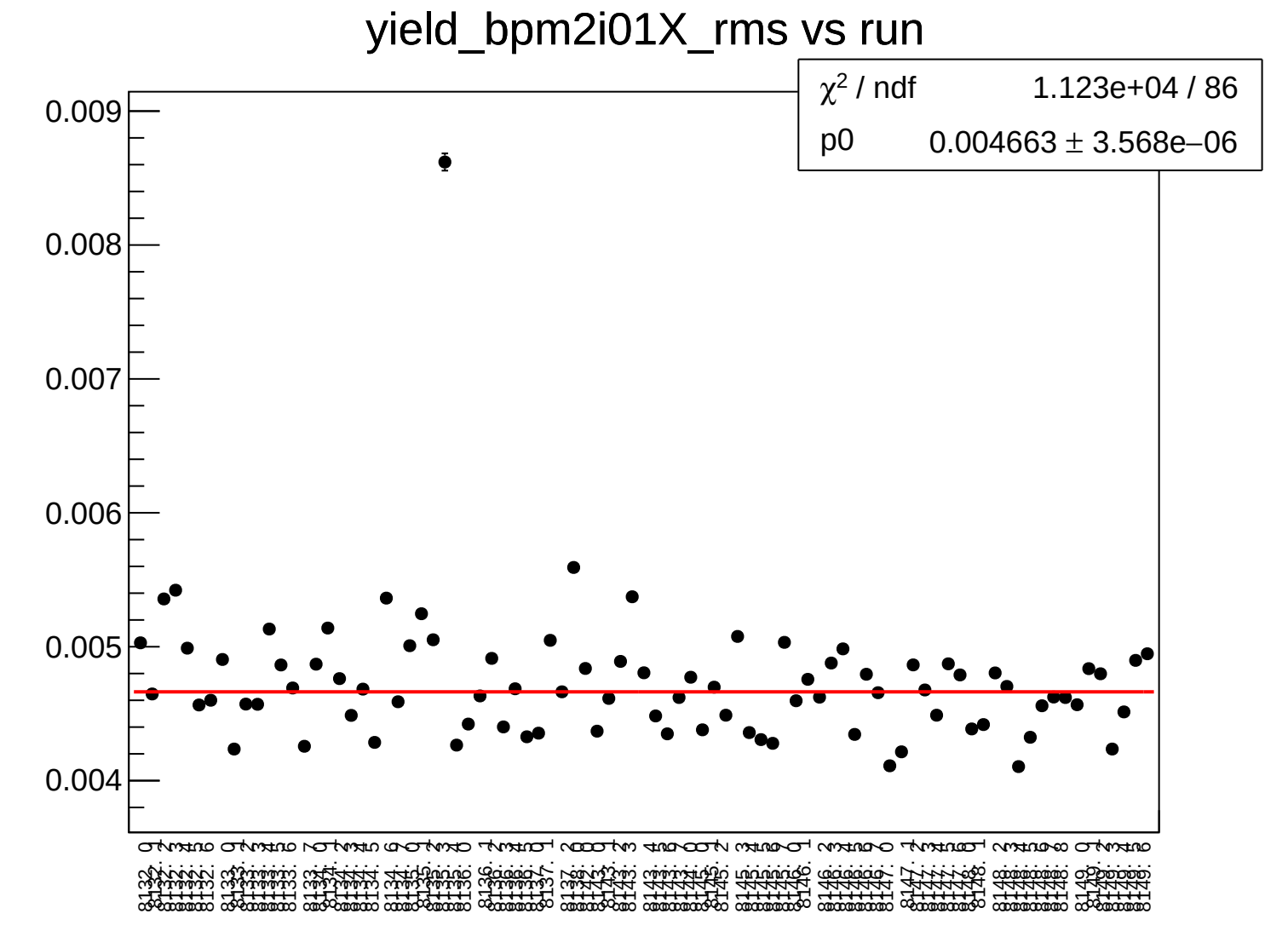

pull1D
Entries 87
Mean 0
Std Dev 0

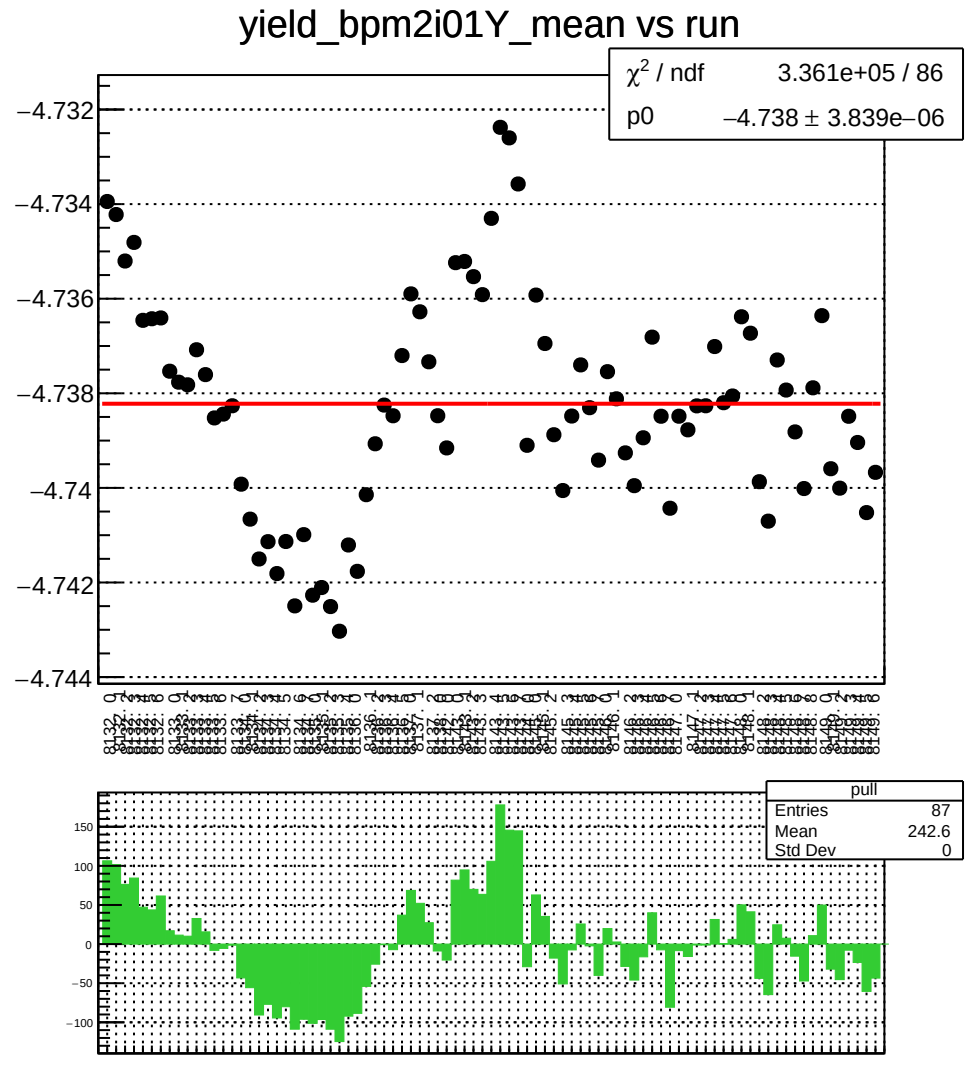

yield_bpm1i06X_rms vs run
χ² / ndf 1.578e+04 / 86
p0 0.01318 ± 1.01e−05
0.022
0.02
0.018
0.016
0.014
0.012
0.01

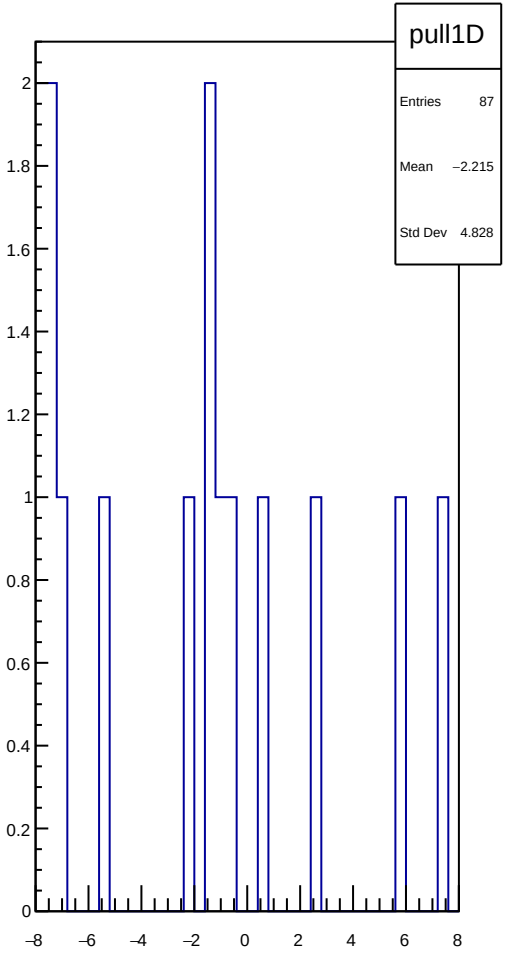

yield_bpm1i06Y_mean vs run
χ² / ndf 9.017e+06 / 86
p0 0.05301± 7.973e−06
0.1
0.08
0.06
0.04
0.02
pull
Entries 87
Mean 196.9
Std Dev 0
800
600
400
200
0
−200
−400
−600
pull1D
Entries 87
Mean 3.098
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

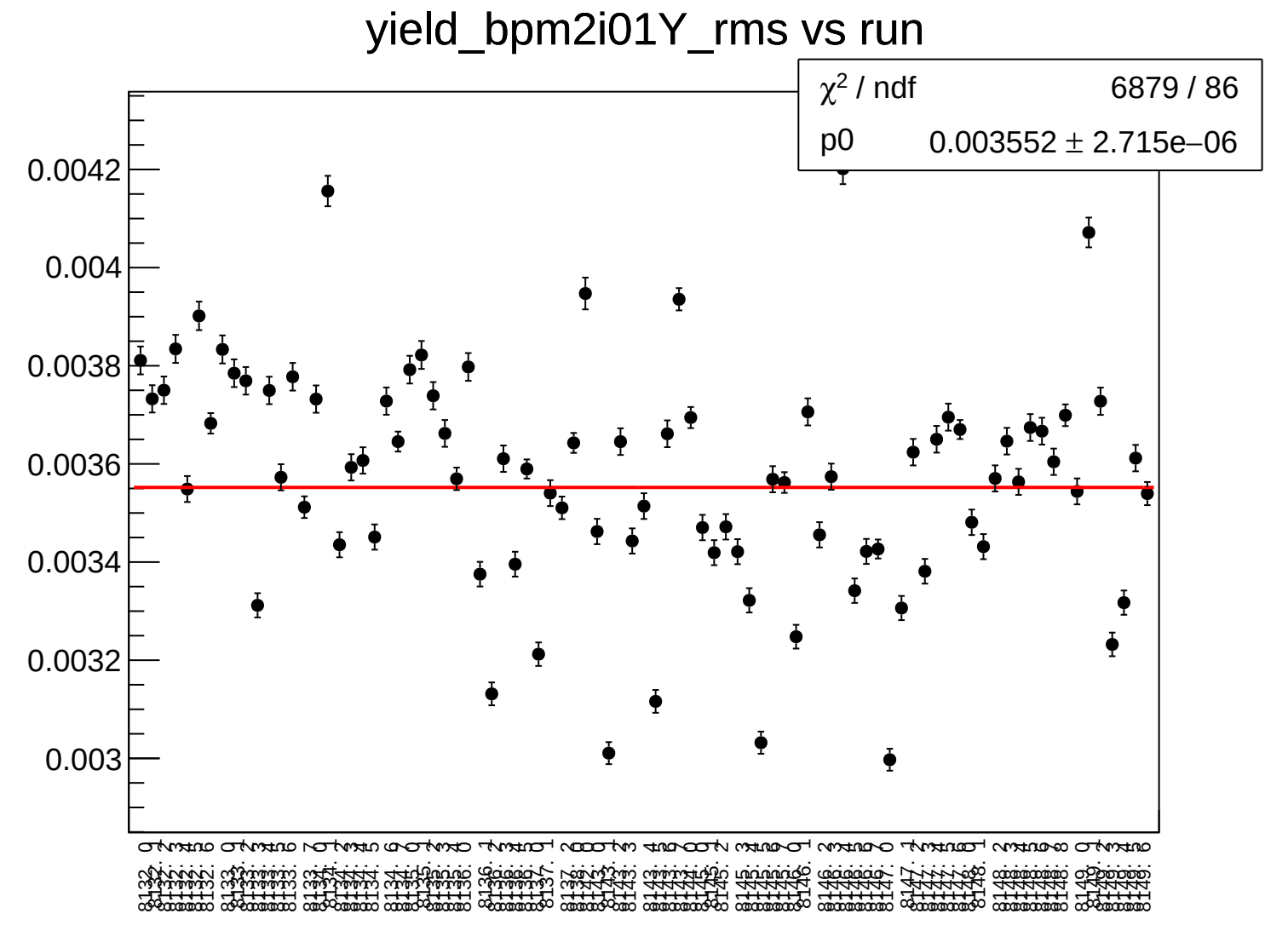

yield_bpm1i06Y_rms vs run
χ² / ndf 7.594e+04 / 86
p0 0.007226 ± 5.637e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

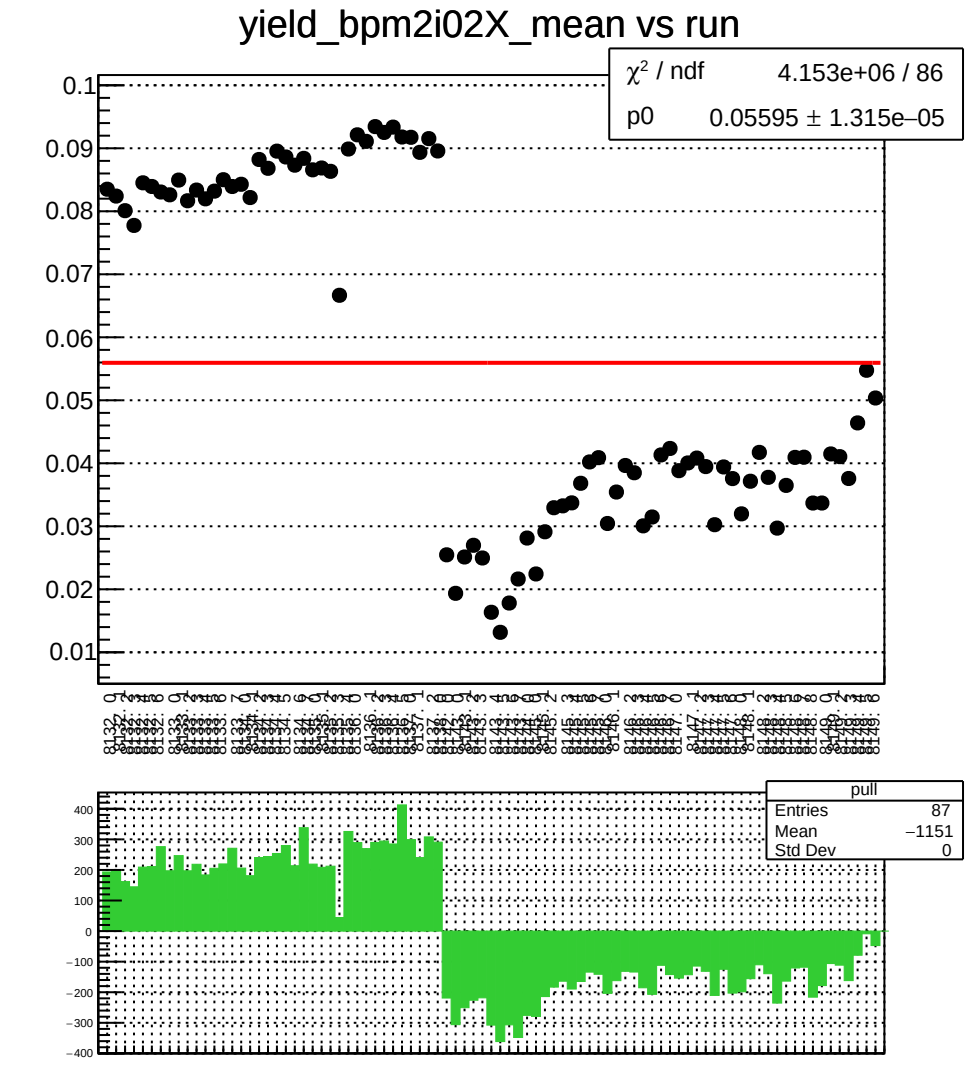

yield_bpm2i01X_mean vs run
χ² / ndf 5.028e+06 / 86
p0 0.8959 ± 5.047e−06
0.91
0.905
0.9
0.895
0.89
0.885
0.88
pull
Entries 87
Mean −9573
Std Dev 0
500
400
300
200
100
0
−100
−200
−300
pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

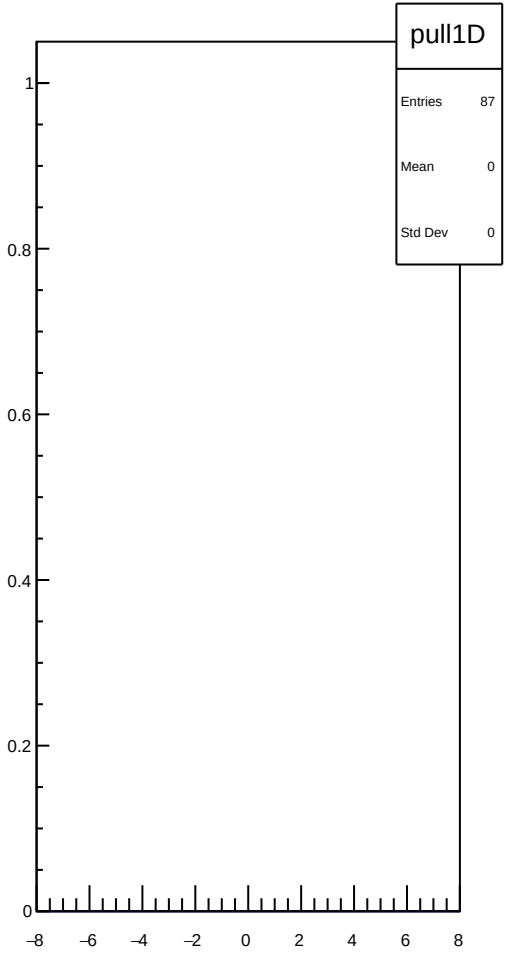

yield_bpm2i01X_rms vs run
χ² / ndf 1.123e+04 / 86
p0 0.004663 ± 3.568e−06
0.009
0.008
0.007
0.006
0.005
0.004

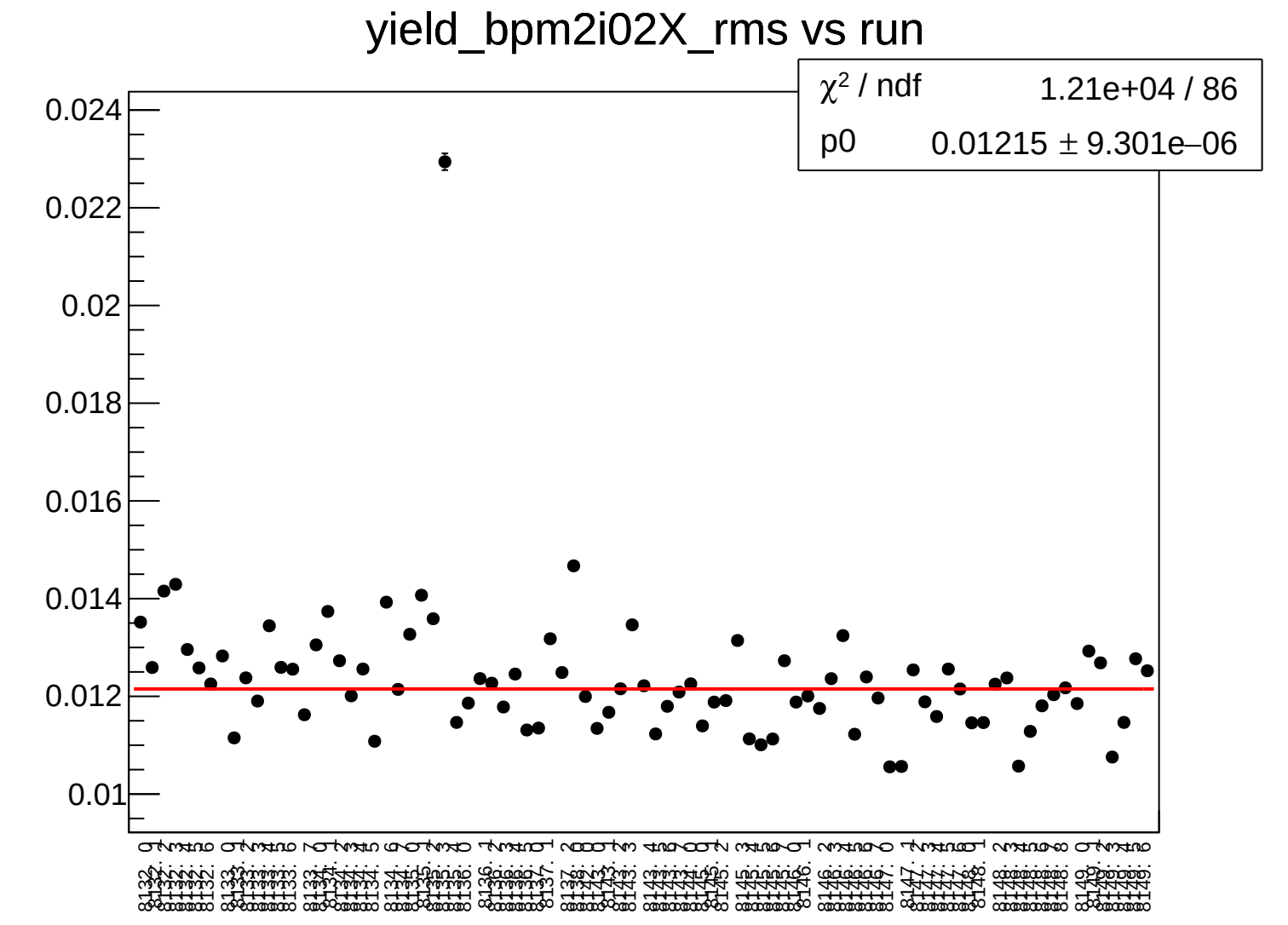

yield_bpm2i01Y_mean vs run
χ² / ndf 3.361e+05 / 86
p0 −4.738 ± 3.839e−06
−4.732
−4.734
−4.736
−4.738
−4.74
−4.742
−4.744
pull
Entries 87
Mean 242.6
Std Dev 0
150
100
50
0
−50
−100

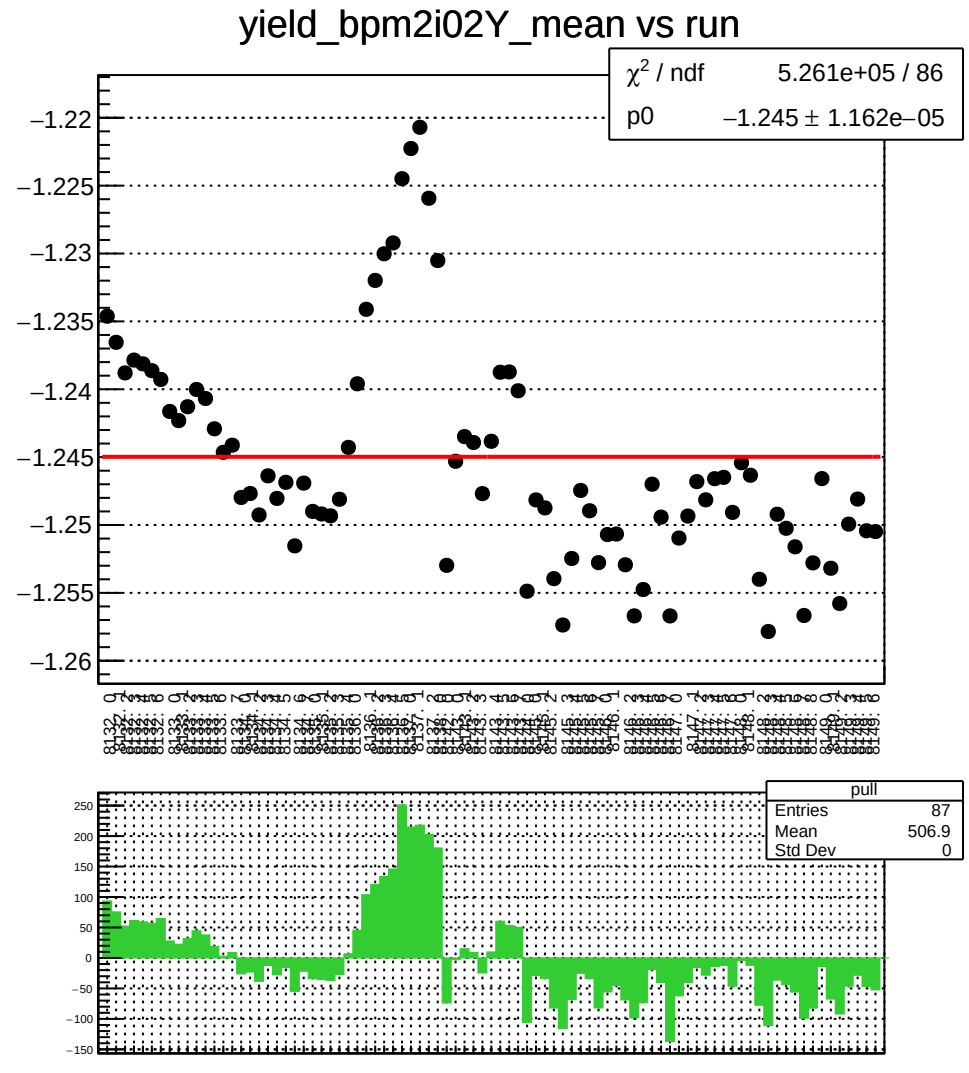

pull1D
Entries 87
Mean −2.215
Std Dev 4.828
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

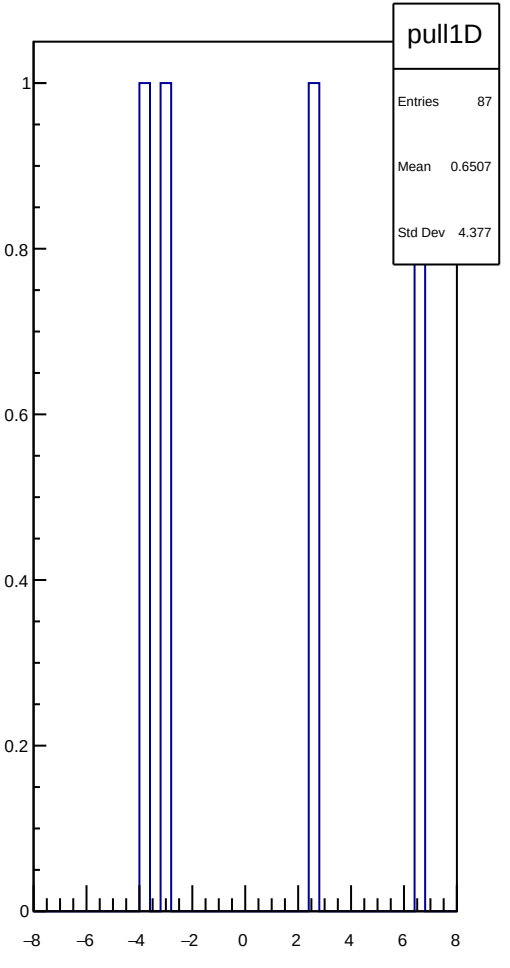

yield_bpm2i01Y_rms vs run
χ² / ndf 6879 / 86
p0 0.003552 ± 2.715e−06
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003

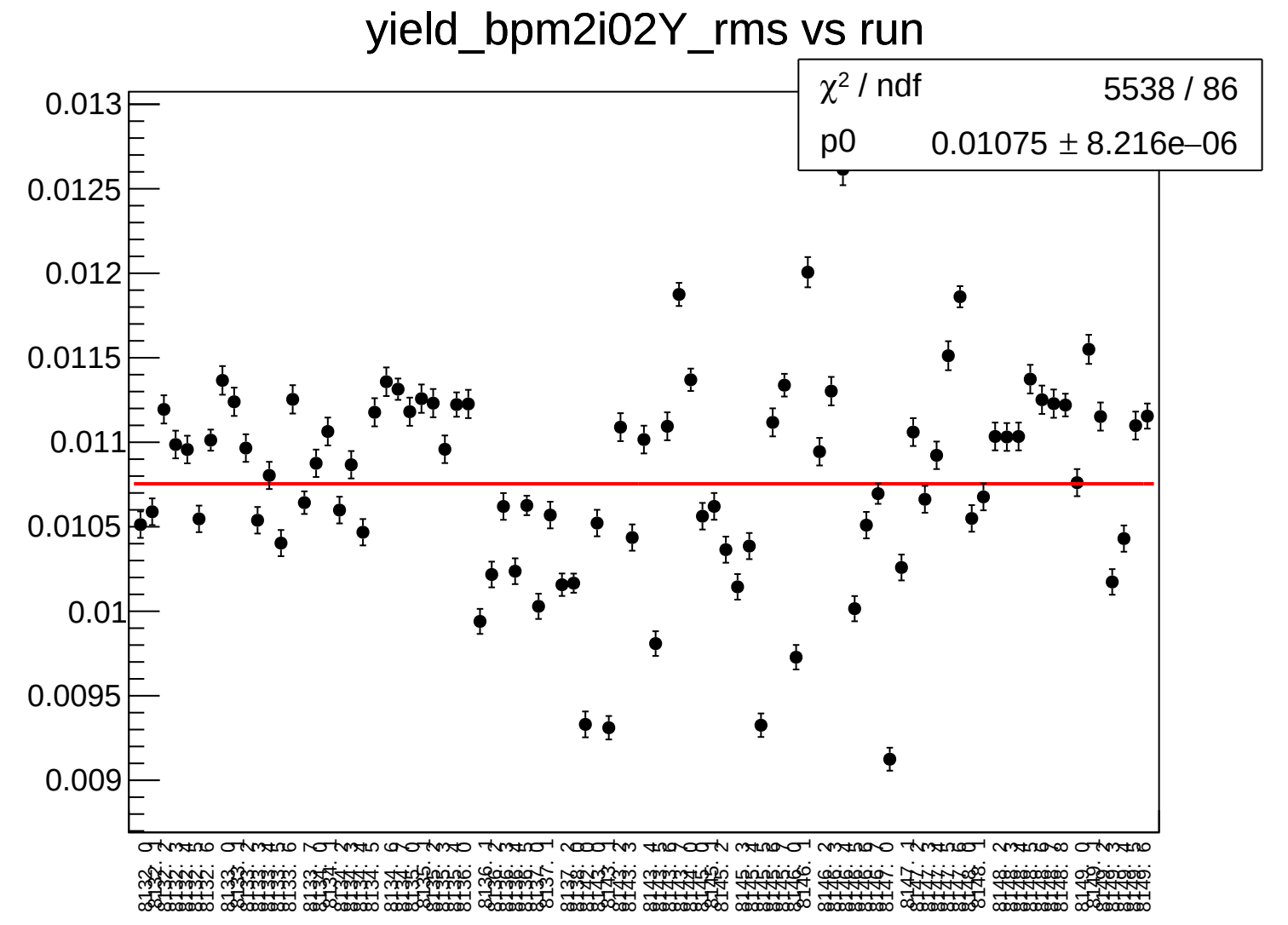

yield_bpm2i02X_mean vs run
χ² / ndf 4.153e+06 / 86
p0 0.05595 ± 1.315e−05
pull
Entries 87
Mean −1151
Std Dev 0

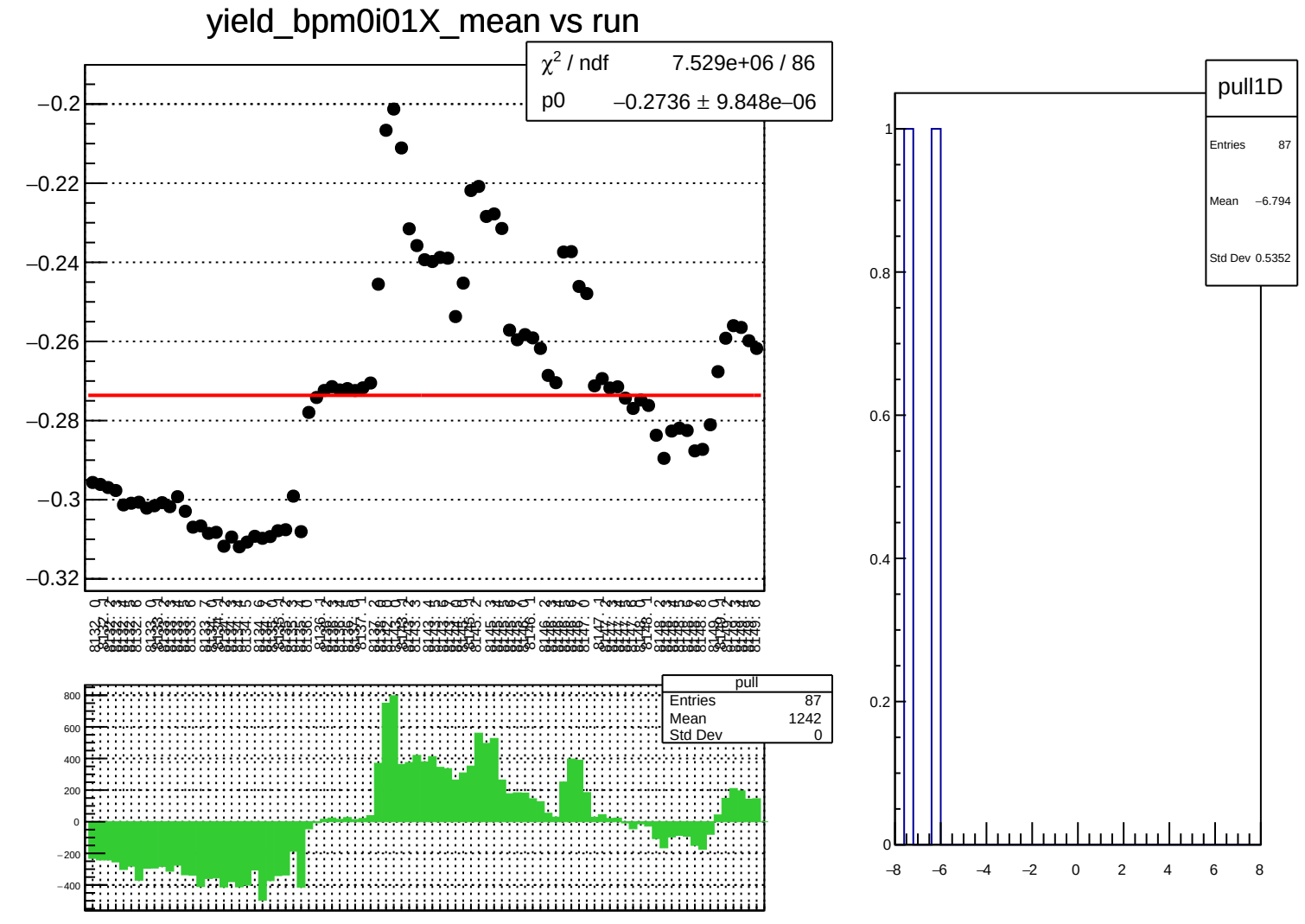

pull1D
Entries 87
Mean 0
Std Dev 0


yield_bpm2i02X_rms vs run
χ² / ndf 1.21e+04 / 86
p0 0.01215 ± 9.301e–06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

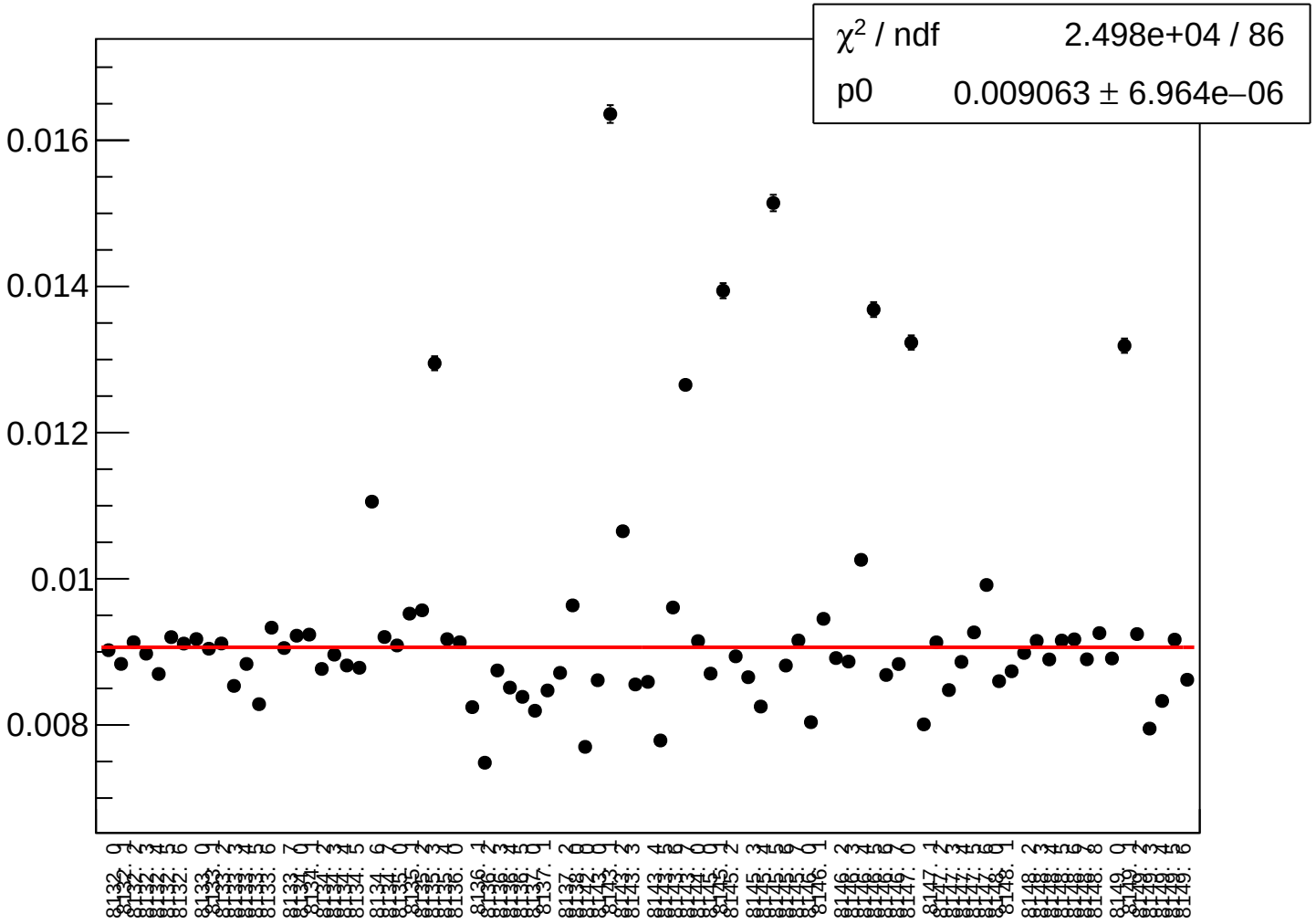

yield_bpm2i02Y_mean vs run
χ² / ndf 5.261e+05 / 86
p0 −1.245 ± 1.162e−05
−1.22
−1.225
−1.23
−1.235
−1.24
−1.245
−1.25
−1.255
−1.26
pull
Entries 87
Mean 506.9
Std Dev 0
250
200
150
100
50
0
−50
−100
−150

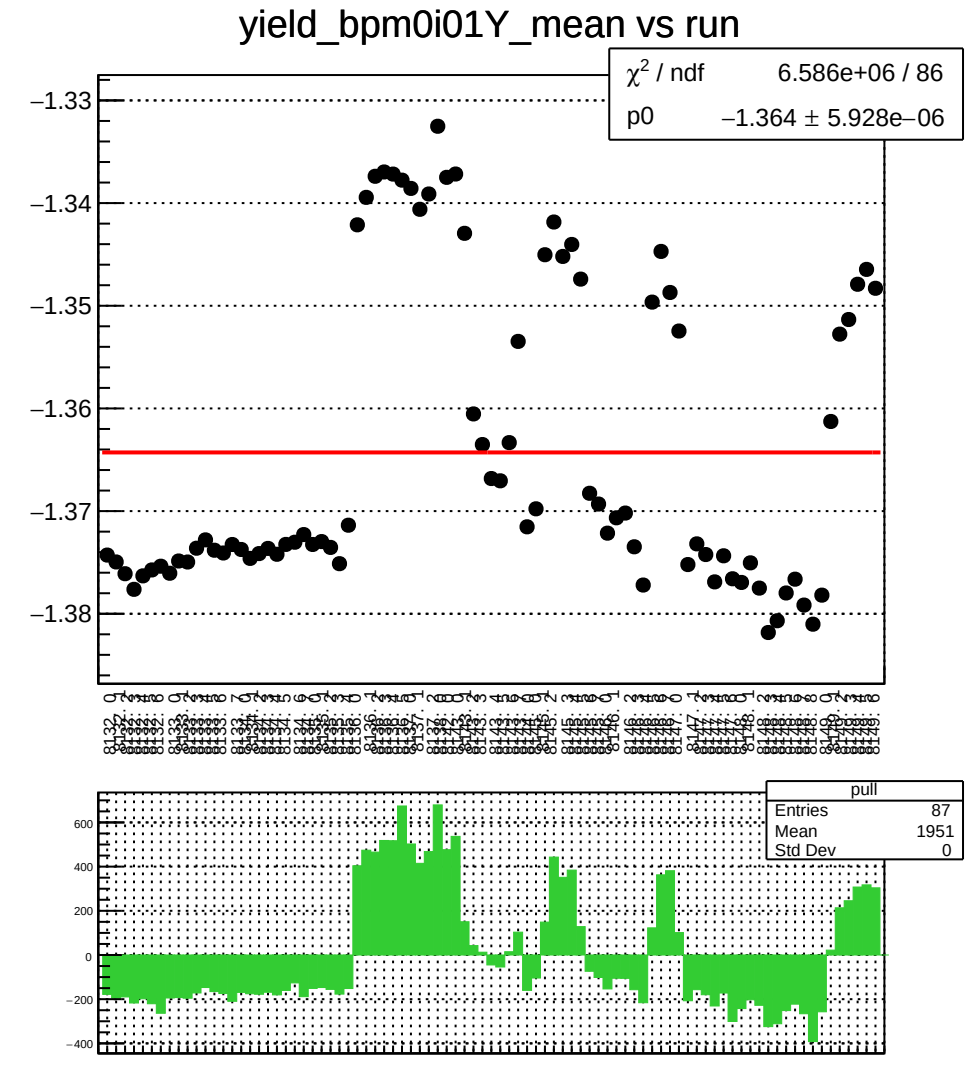

pull1D
Entries 87
Mean 0.6507
Std Dev 4.377
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

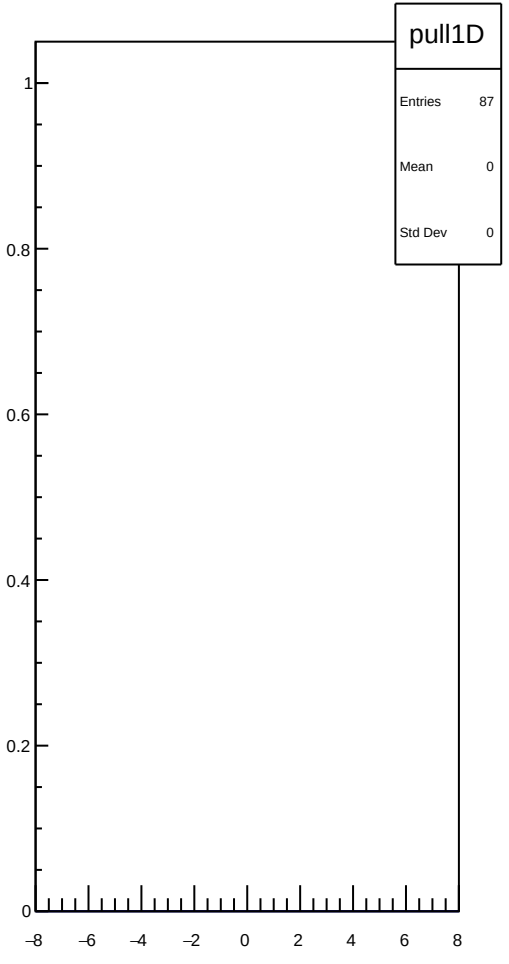

yield_bpm2i02Y_rms vs run
χ² / ndf 5538 / 86
p0 0.01075 ± 8.216e–06
0.013
0.0125
0.012
0.0115
0.011
0.0105
0.01
0.0095
0.009

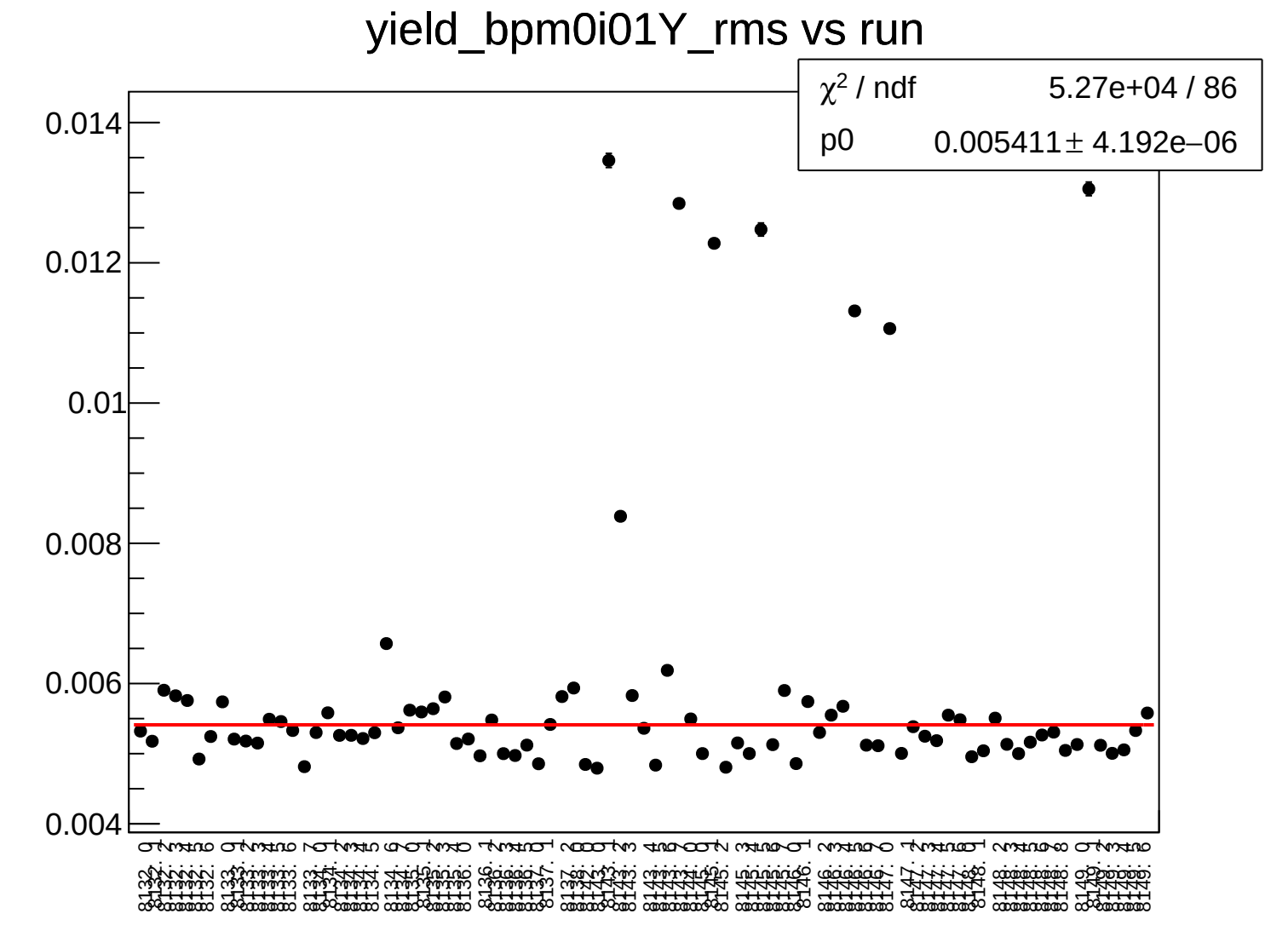

yield_bpm0i01X_mean vs run
χ² / ndf 7.529e+06 / 86
p0 −0.2736 ± 9.848e−06
−0.2
−0.22
−0.24
−0.26
−0.28
−0.3
−0.32
pull
Entries 87
Mean 1242
Std Dev 0
800
600
400
200
0
−200
−400
pull1D
Entries 87
Mean −6.794
Std Dev 0.5352
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

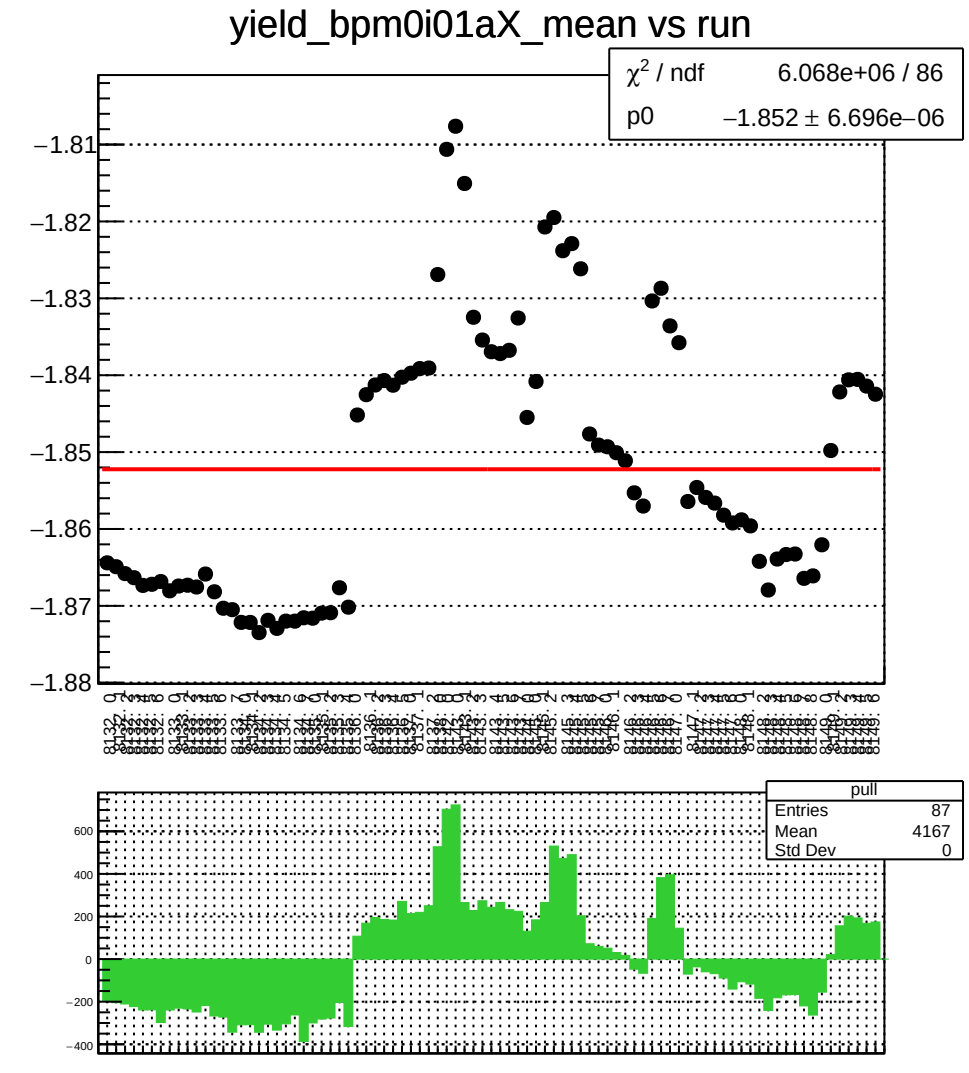
yield_bpm0i01X_rms vs run

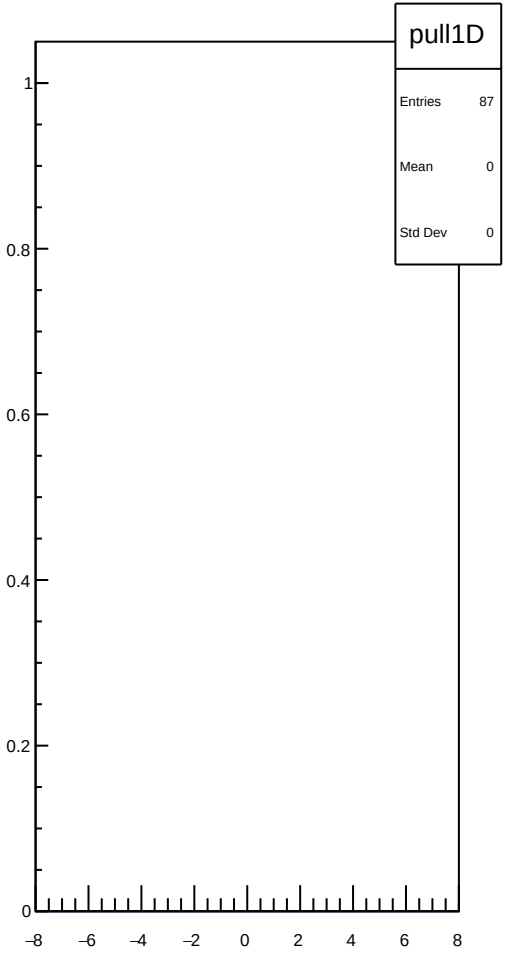


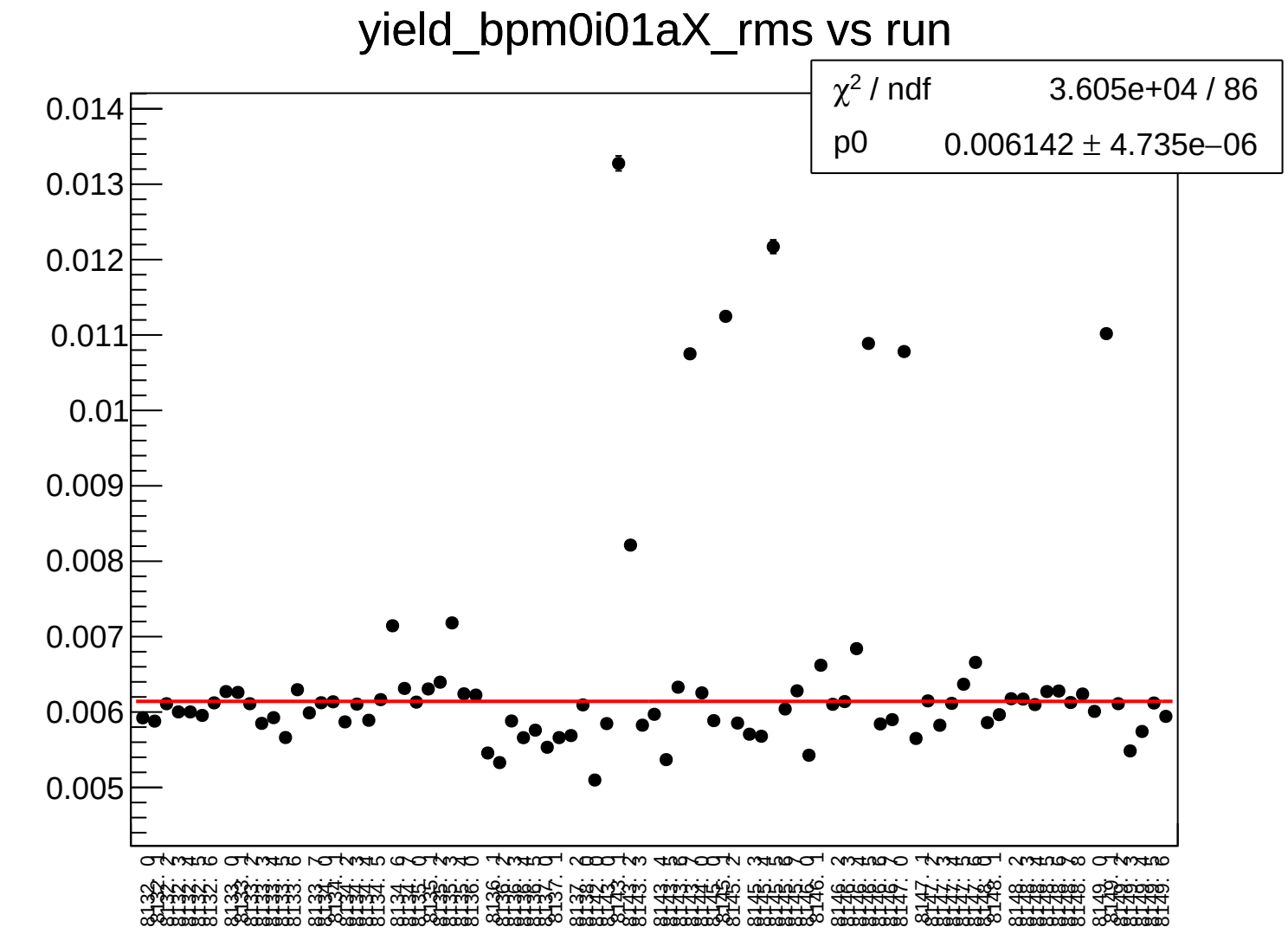

yield_bpm0i01Y_mean vs run
χ² / ndf 6.586e+06 / 86
p0 −1.364 ± 5.928e−06
−1.33
−1.34
−1.35
−1.36
−1.37
−1.38
pull
Entries 87
Mean 1951
Std Dev 0
600
400
200
0
−200
−400

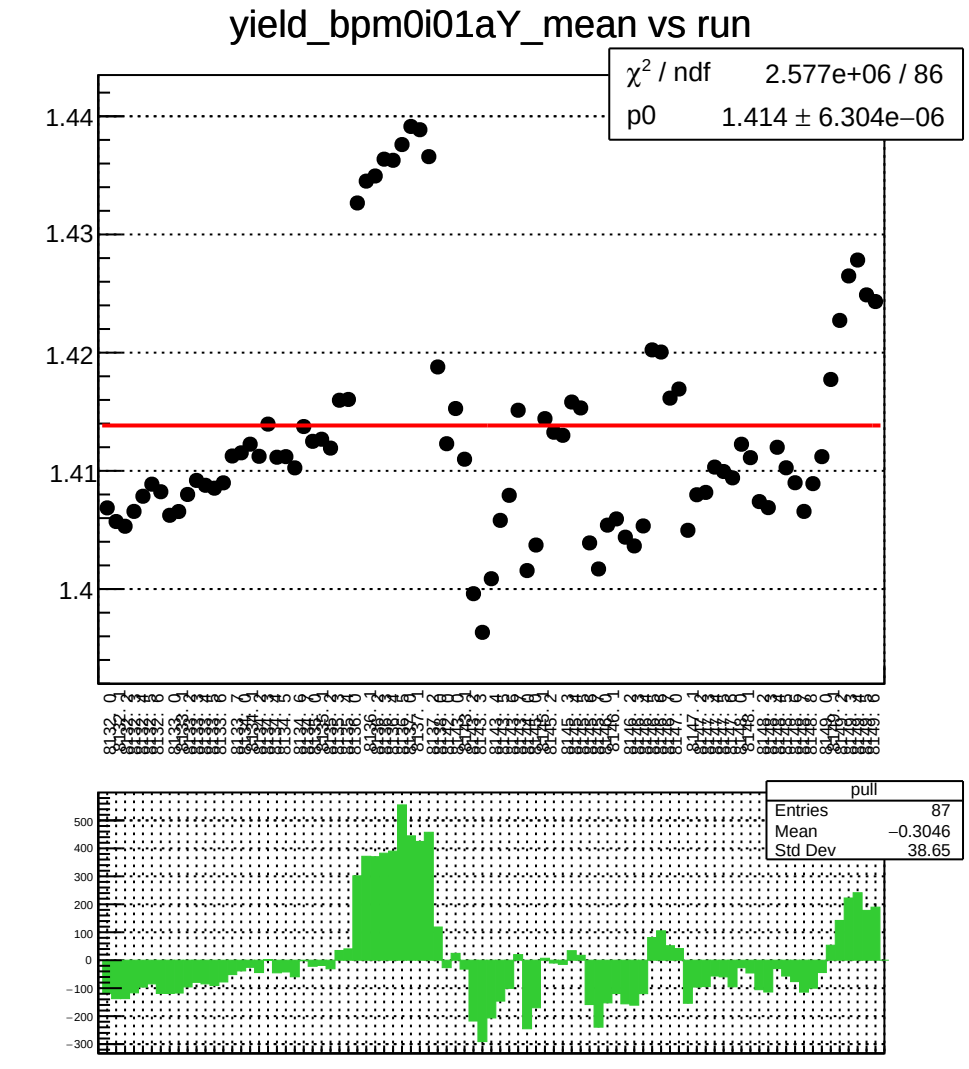

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

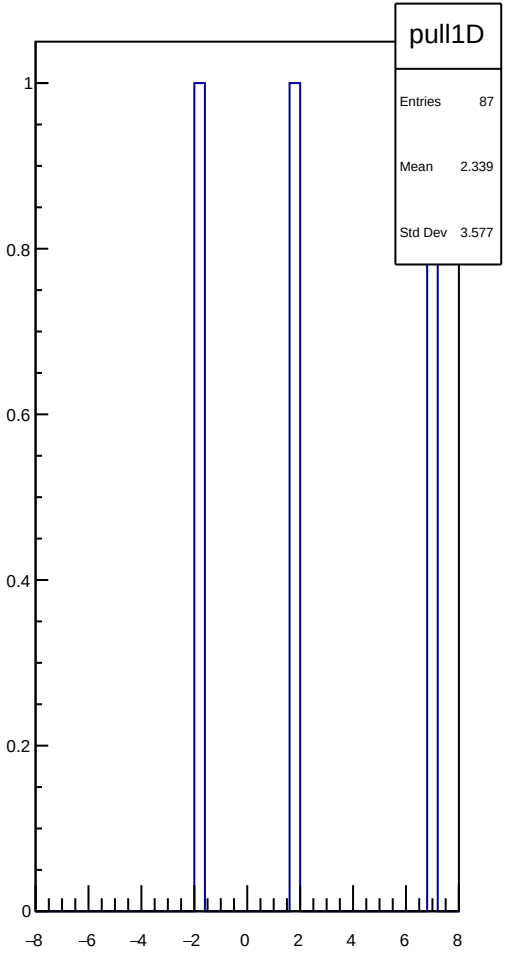

yield_bpm0i01Y_rms vs run
χ² / ndf 5.27e+04 / 86
p0 0.005411 ± 4.192e−06
0.014
0.012
0.01
0.008
0.006
0.004

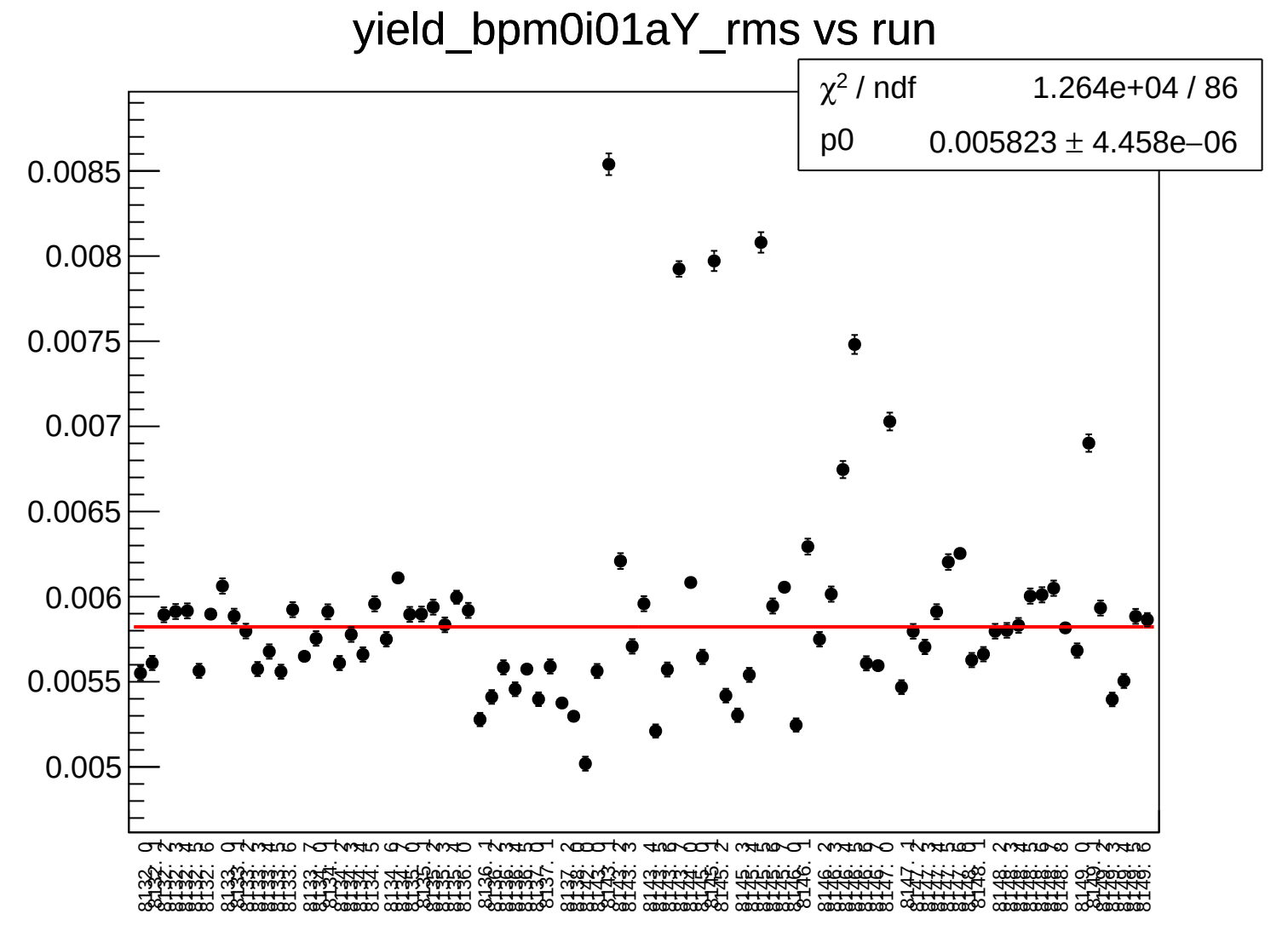

yield_bpm0i01aX_mean vs run
χ² / ndf 6.068e+06 / 86
p0 −1.852 ± 6.696e−06
−1.81
−1.82
−1.83
−1.84
−1.85
−1.86
−1.87
−1.88
pull
Entries 87
Mean 4167
Std Dev 0
600
400
200
0
−200
−400

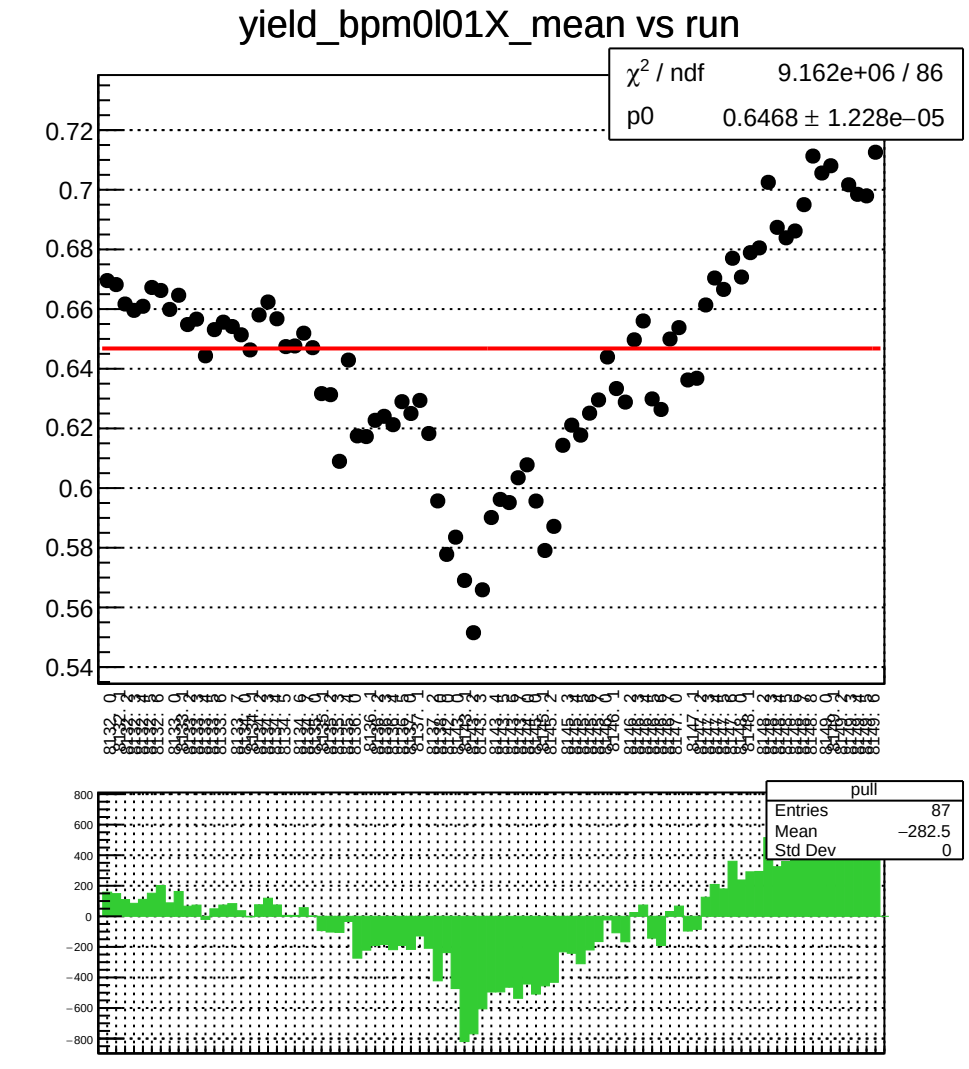

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

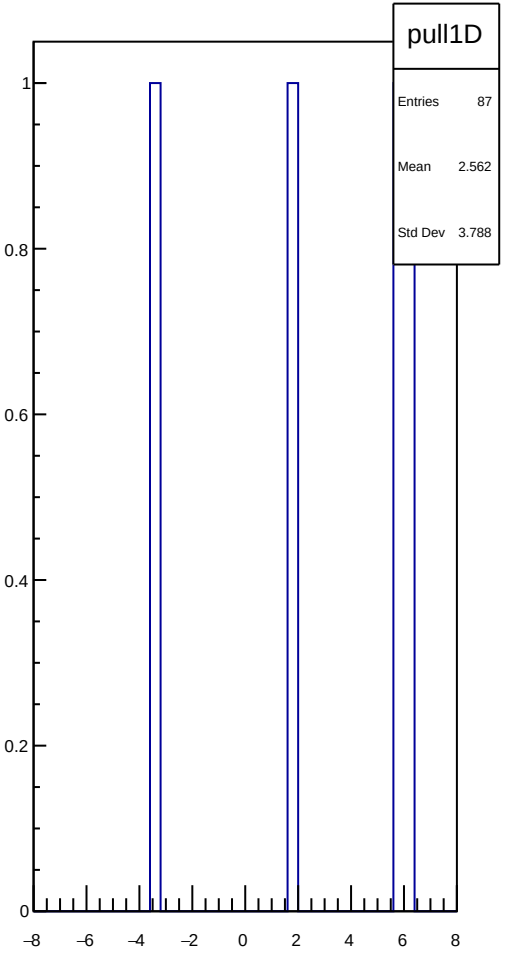

yield_bpm0i01aX_rms vs run
χ² / ndf 3.605e+04 / 86
p0 0.006142 ± 4.735e−06
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005

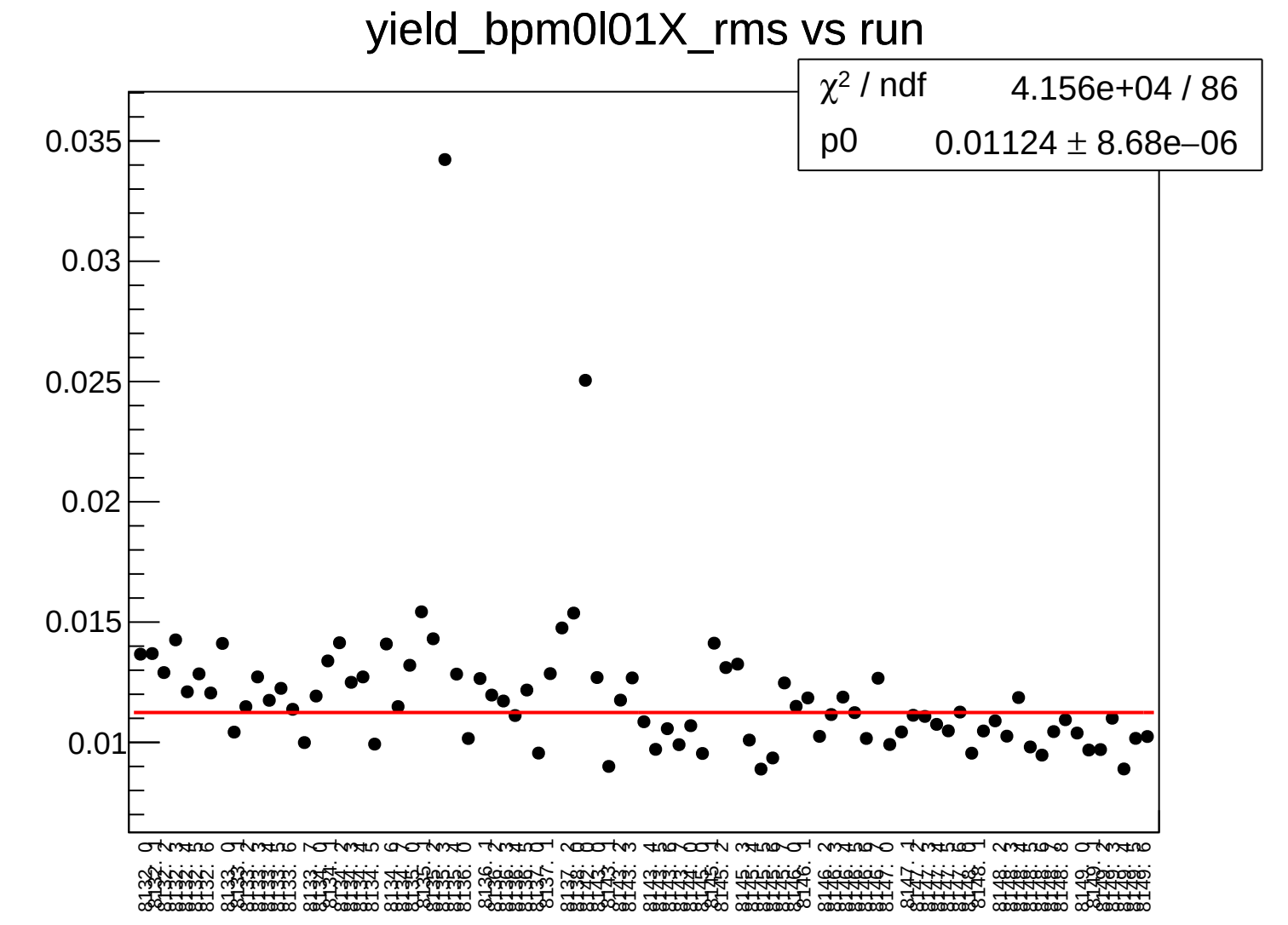

yield_bpm0i01aY_mean vs run
χ² / ndf 2.577e+06 / 86
p0 1.414 ± 6.304e−06
1.44
1.43
1.42
1.41
1.4
pull
Entries 87
Mean −0.3046
Std Dev 38.65
500
400
300
200
100
0
−100
−200
−300

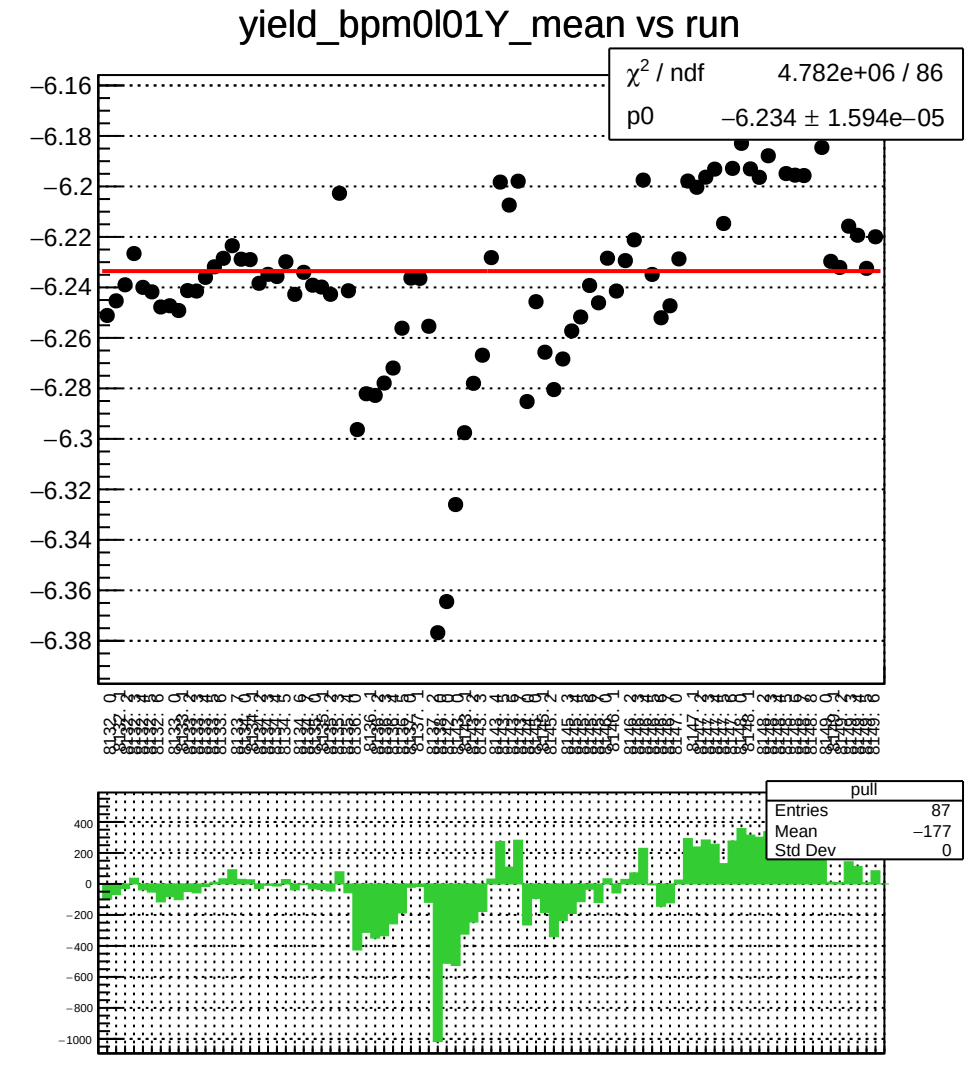

pull1D
Entries 87
Mean 2.339
Std Dev 3.577
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

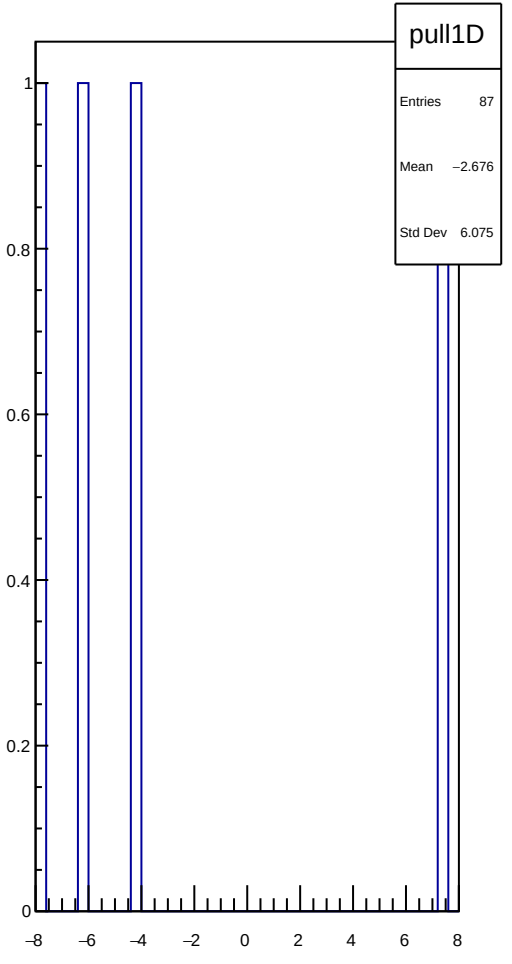

yield_bpm0i01aY_rms vs run
χ² / ndf 1.264e+04 / 86
p0 0.005823 ± 4.458e−06
0.0085
0.008
0.0075
0.007
0.0065
0.006
0.0055
0.005

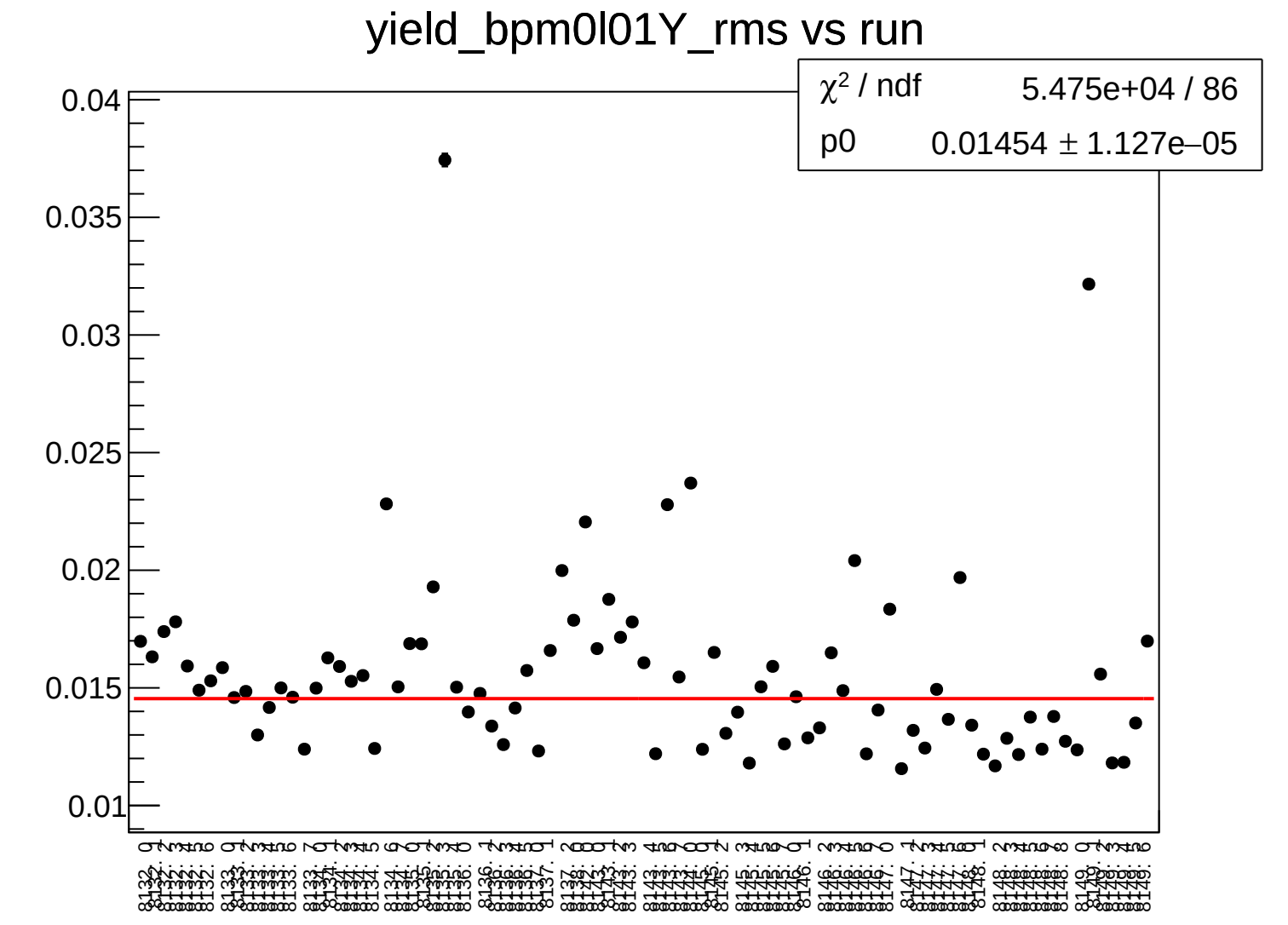

yield_bpm0l01X_mean vs run
χ² / ndf 9.162e+06 / 86
p0 0.6468 ± 1.228e−05
0.72
0.7
0.68
0.66
0.64
0.62
0.6
0.58
0.56
0.54
pull
Entries 87
Mean −282.5
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800

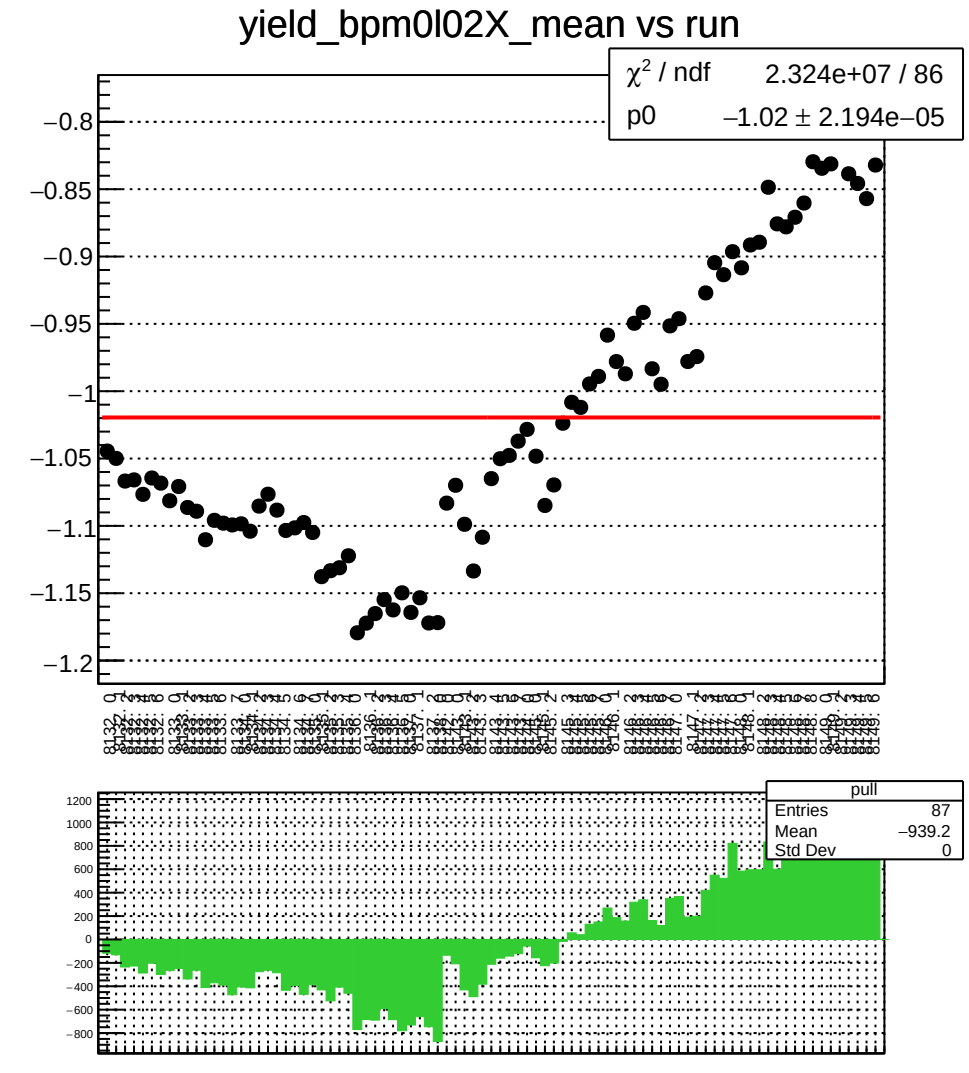

pull1D
Entries 87
Mean 2.562
Std Dev 3.788
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

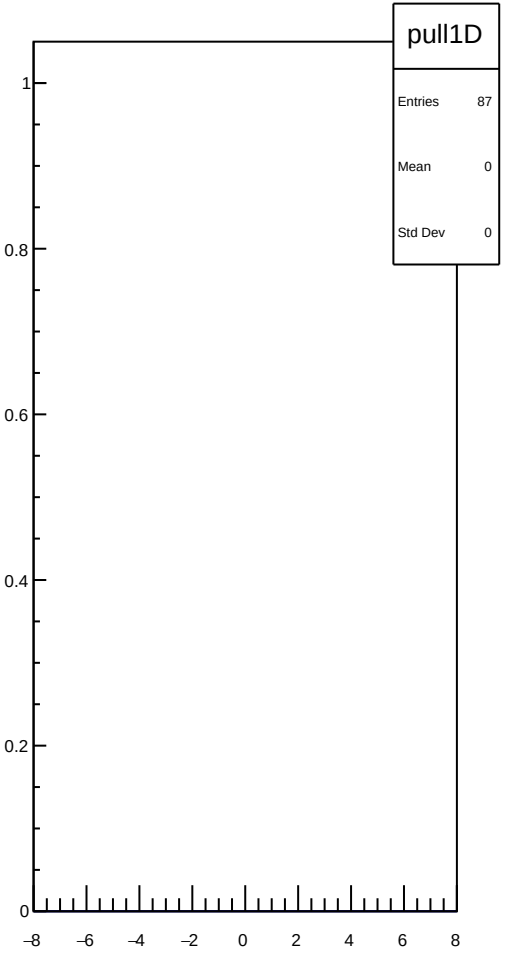

yield_bpm0l01X_rms vs run
χ² / ndf 4.156e+04 / 86
p0 0.01124 ± 8.68e−06
0.035
0.03
0.025
0.02
0.015
0.01

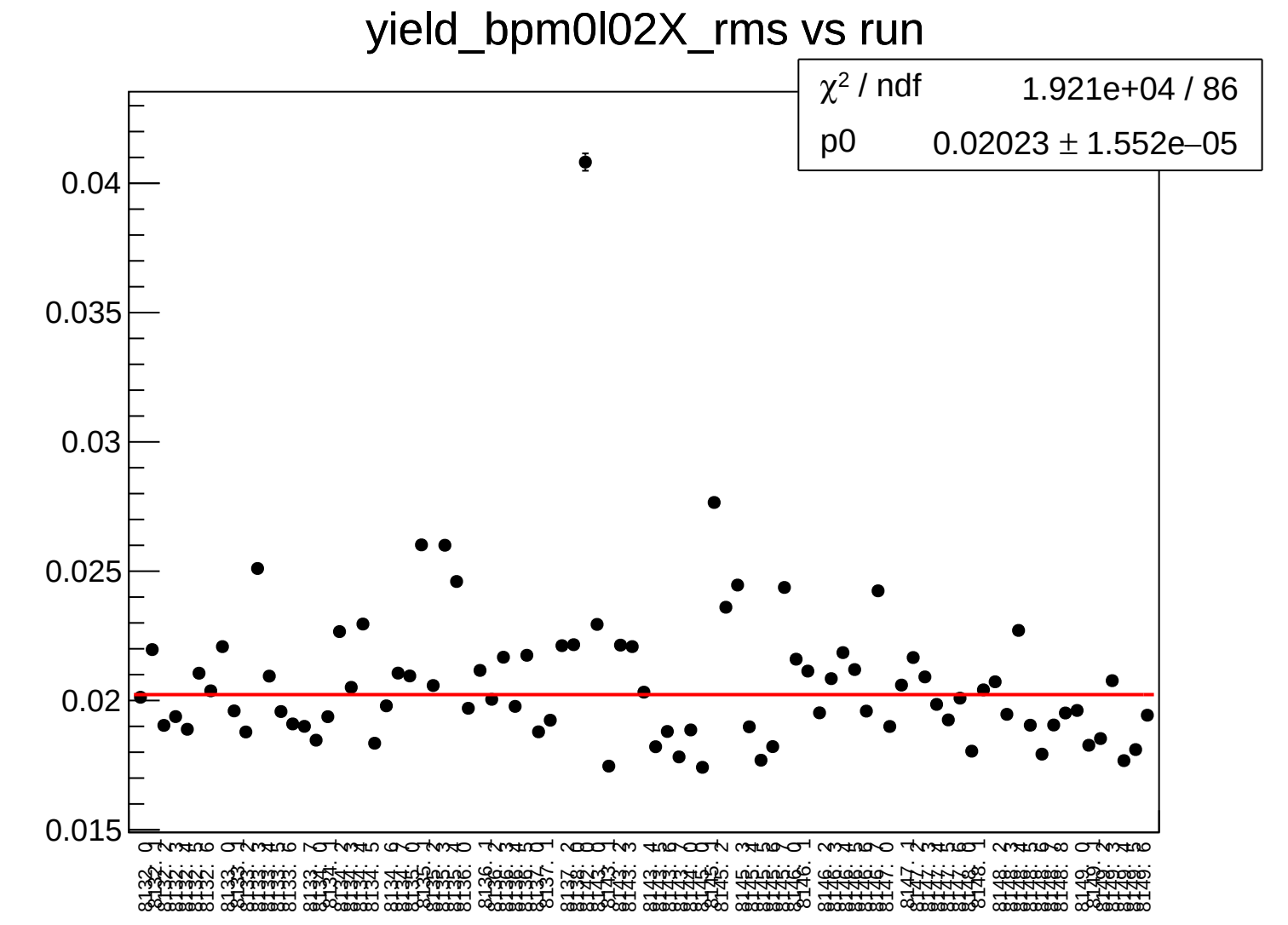

yield_bpm0l01Y_mean vs run
χ² / ndf 4.782e+06 / 86
p0 −6.234 ± 1.594e−05
−6.16
−6.18
−6.2
−6.22
−6.24
−6.26
−6.28
−6.3
−6.32
−6.34
−6.36
−6.38
pull
Entries 87
Mean −177
Std Dev 0
400
200
0
−200
−400
−600
−800
−1000

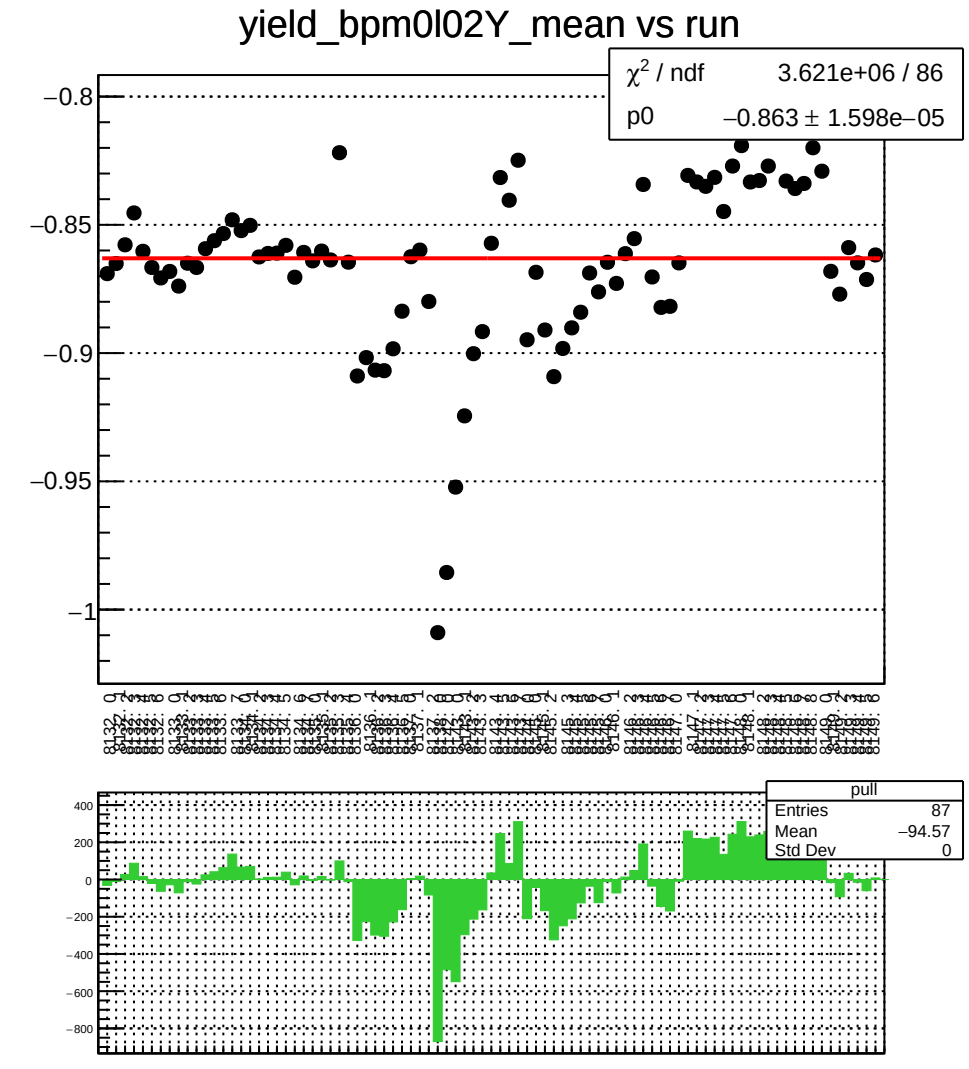

pull1D
Entries 87
Mean −2.676
Std Dev 6.075
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

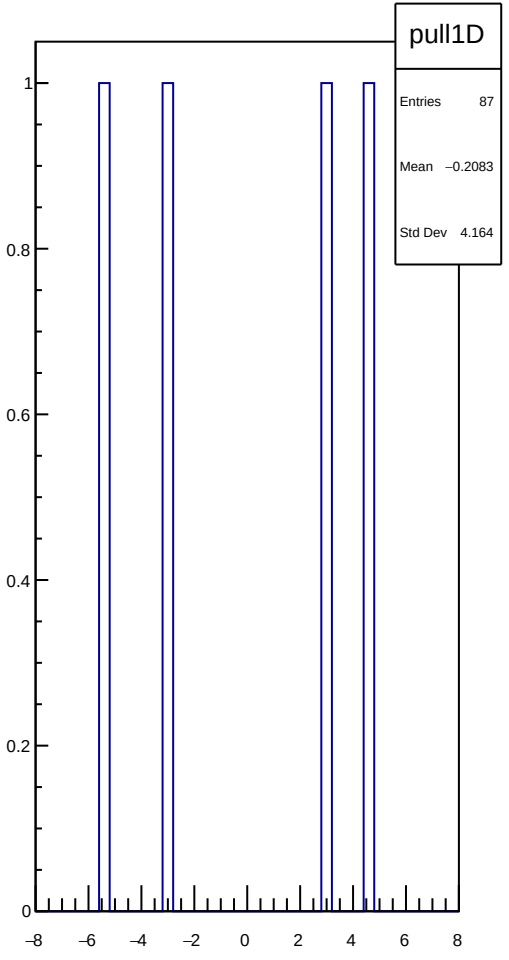

yield_bpm0l01Y_rms vs run
χ² / ndf 5.475e+04 / 86
p0 0.01454 ± 1.127e−05
0.04
0.035
0.03
0.025
0.02
0.015
0.01

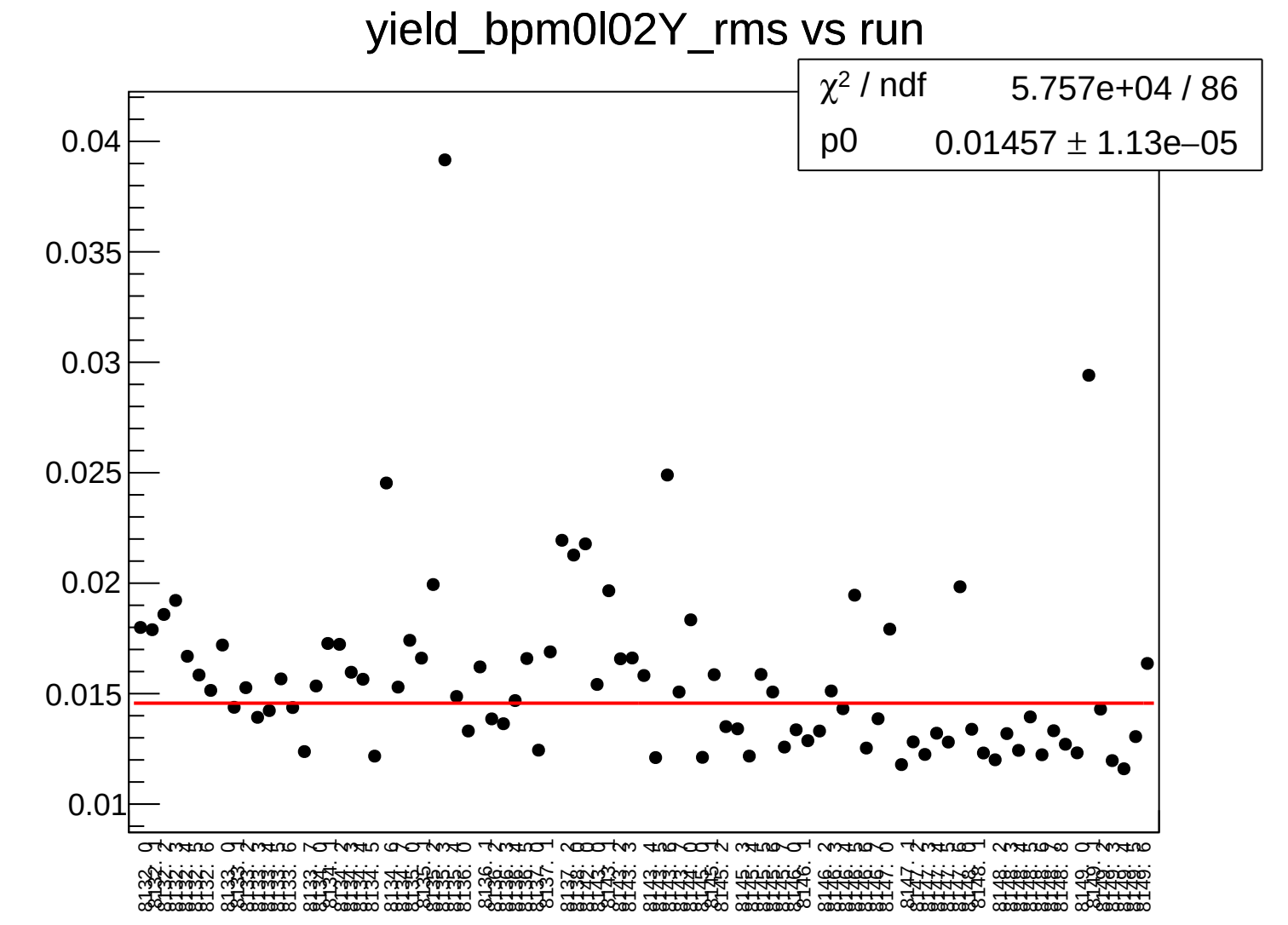

yield_bpm0l02X_mean vs run
χ² / ndf 2.324e+07 / 86
p0 −1.02 ± 2.194e−05
pull
Entries 87
Mean −939.2
Std Dev 0

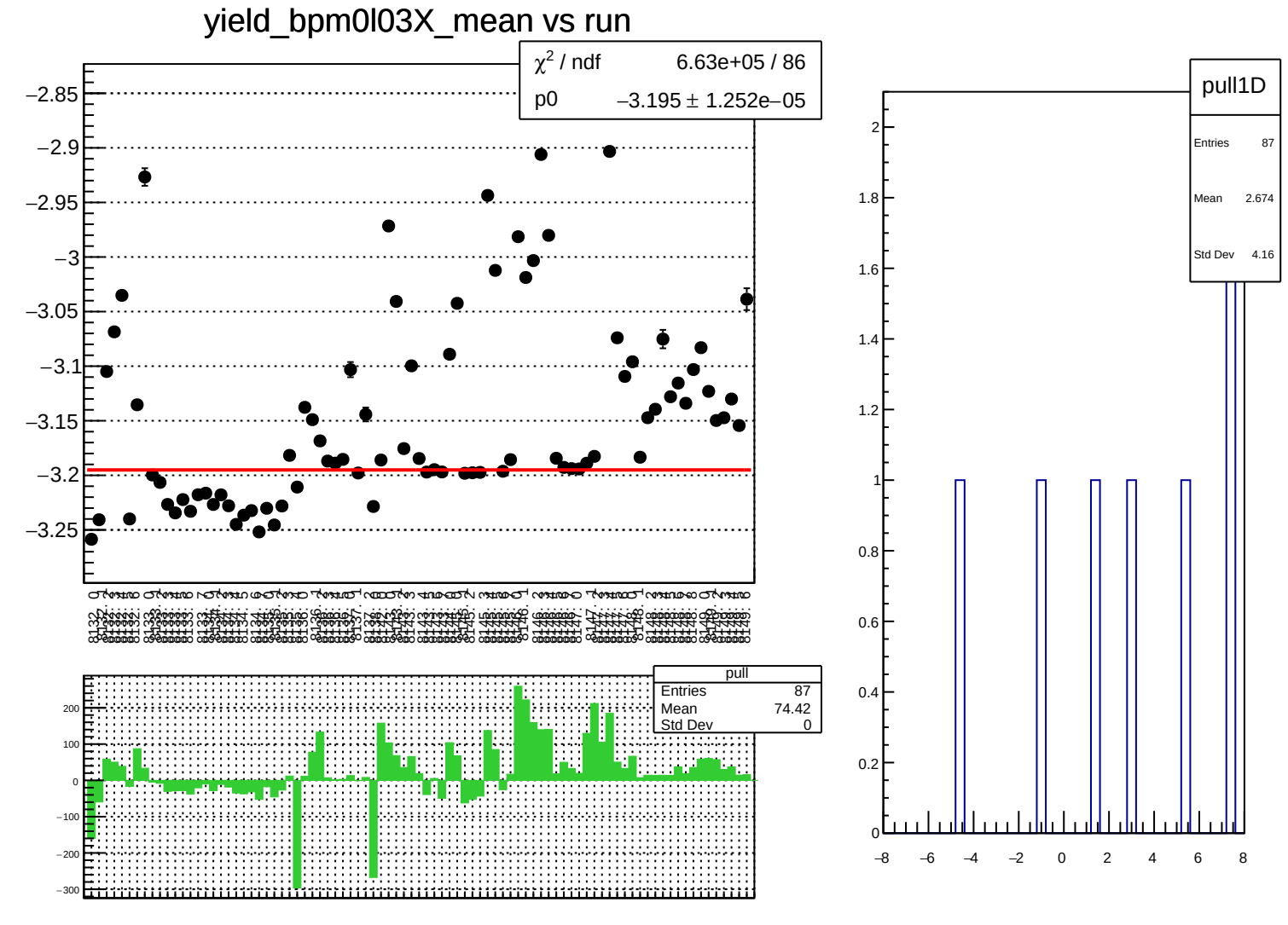

pull1D
Entries 87
Mean 0
Std Dev 0

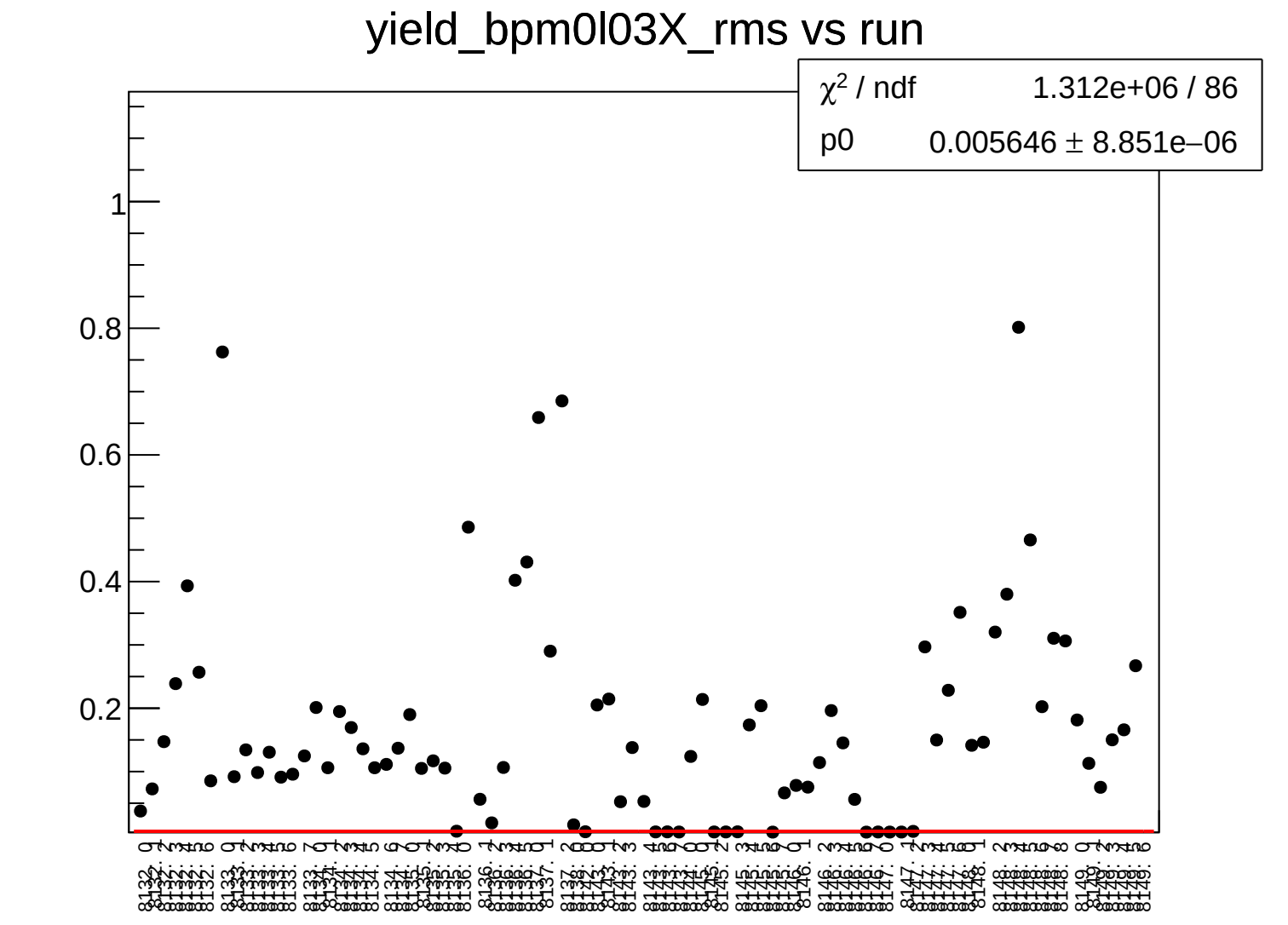

yield_bpm0l02X_rms vs run
χ² / ndf 1.921e+04 / 86
p0 0.02023 ± 1.552e–05
0.04
0.035
0.03
0.025
0.02
0.015

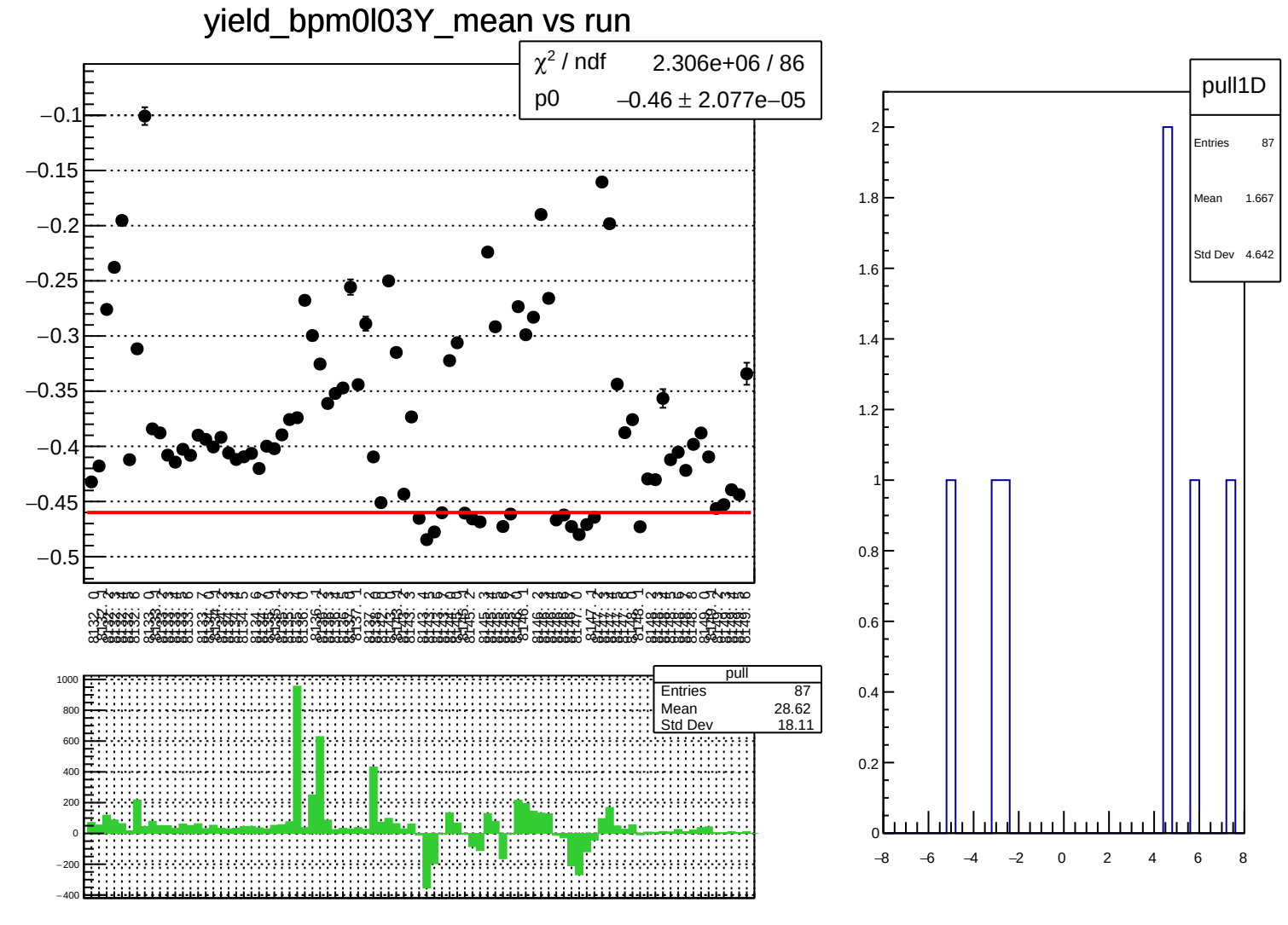

yield_bpm0l02Y_mean vs run
χ² / ndf 3.621e+06 / 86
p0 −0.863 ± 1.598e−05
−0.8
−0.85
−0.9
−0.95
−1
pull
Entries 87
Mean −94.57
Std Dev 0
400
200
0
−200
−400
−600
−800

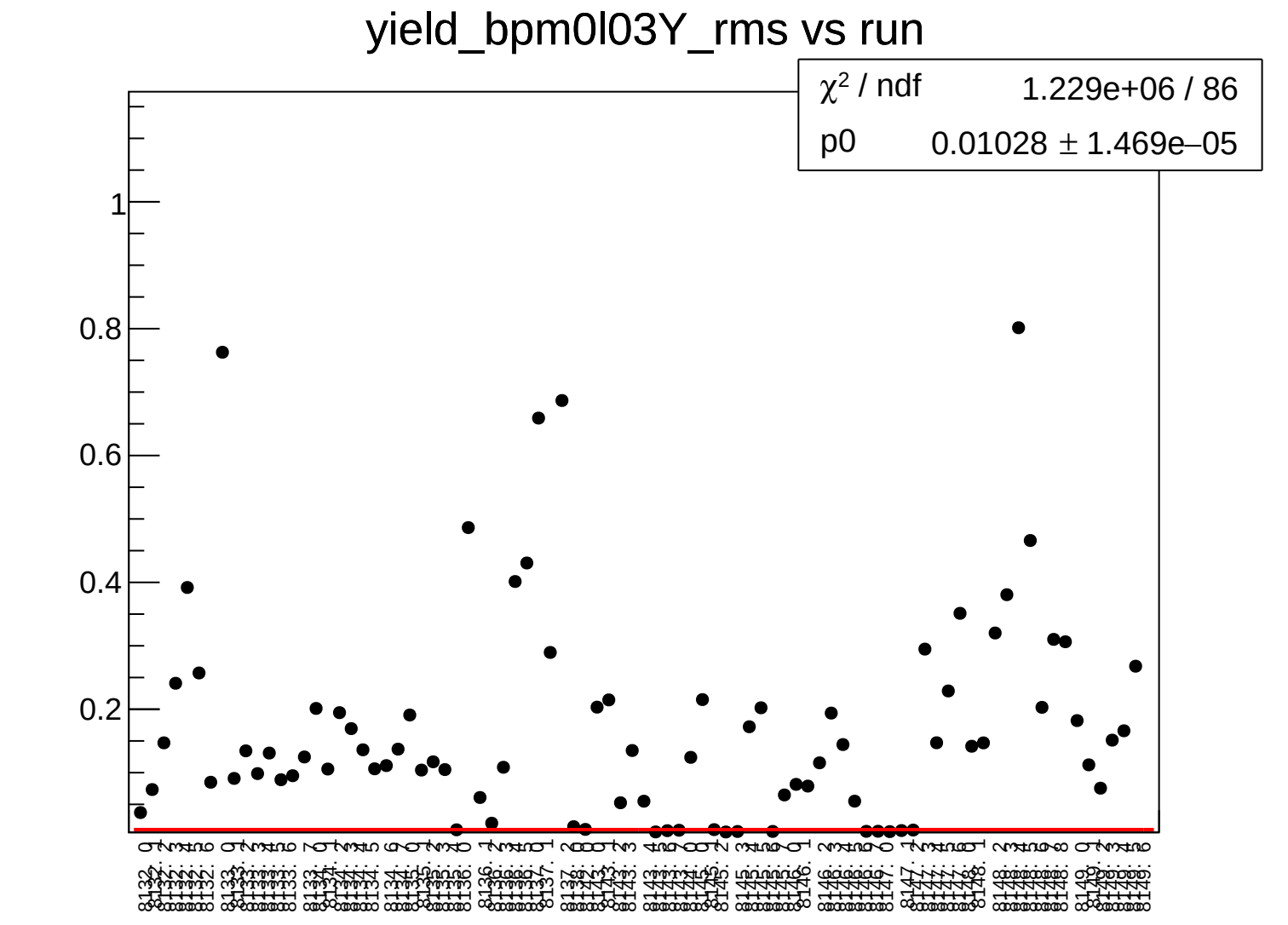

pull1D
Entries 87
Mean −0.2083
Std Dev 4.164
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

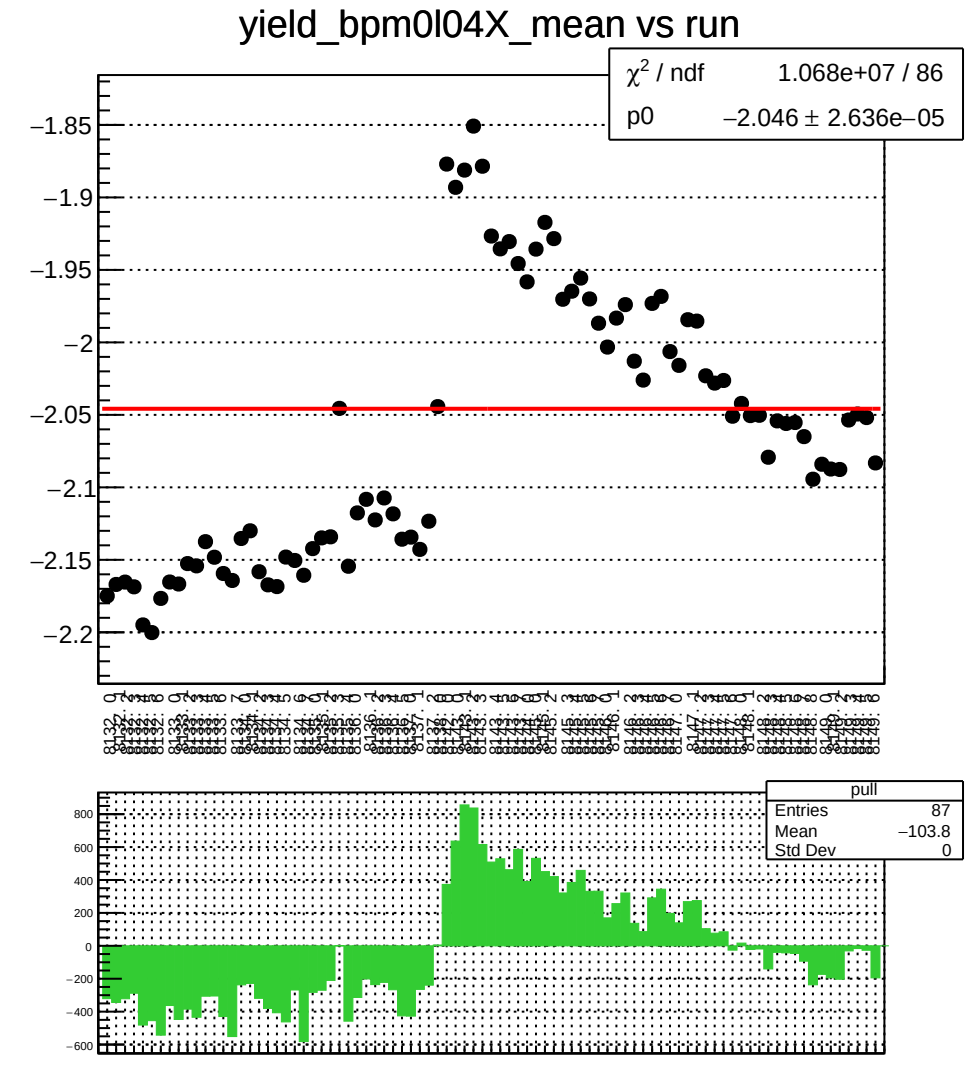

yield_bpm0l02Y_rms vs run
χ² / ndf 5.757e+04 / 86
p0 0.01457 ± 1.13e−05
0.04
0.035
0.03
0.025
0.02
0.015
0.01

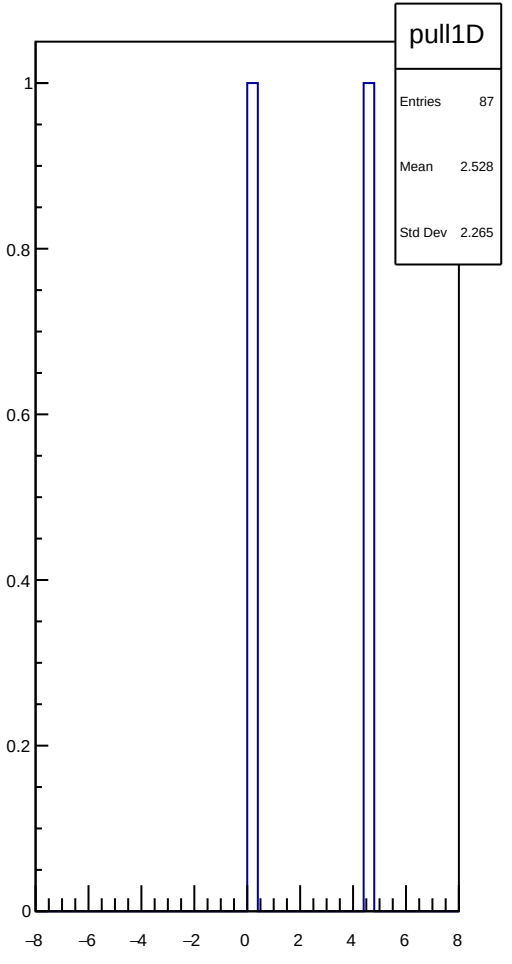

yield_bpm0l03X_mean vs run
χ² / ndf 6.63e+05 / 86
p0 −3.195 ± 1.252e−05
−2.85
−2.9
−2.95
−3
−3.05
−3.1
−3.15
−3.2
−3.25
pull
Entries 87
Mean 74.42
Std Dev 0
200
100
0
−100
−200
−300
pull1D
Entries 87
Mean 2.674
Std Dev 4.16
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

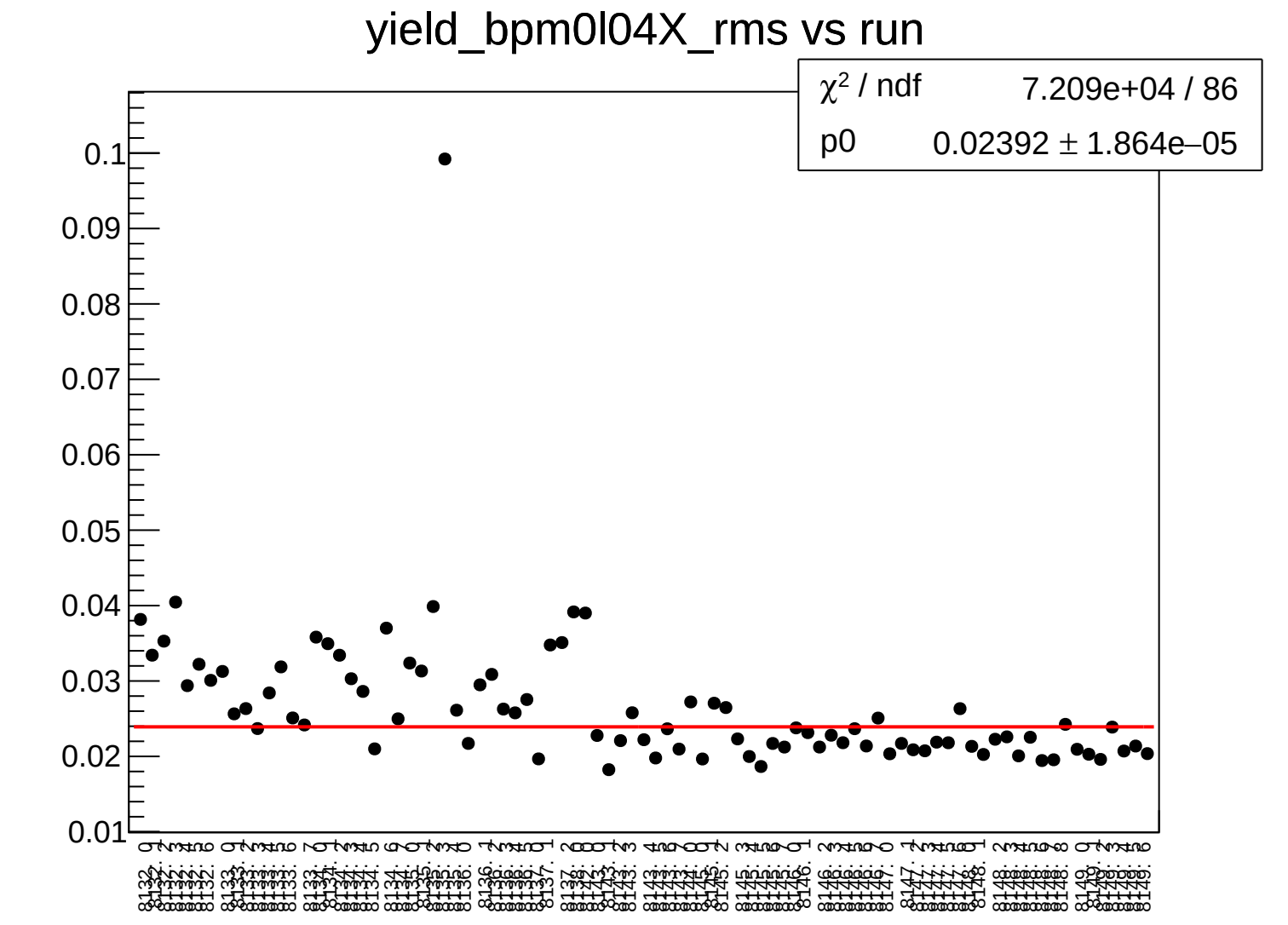

yield_bpm0l03X_rms vs run
χ² / ndf 1.312e+06 / 86
p0 0.005646 ± 8.851e−06
1
0.8
0.6
0.4
0.2

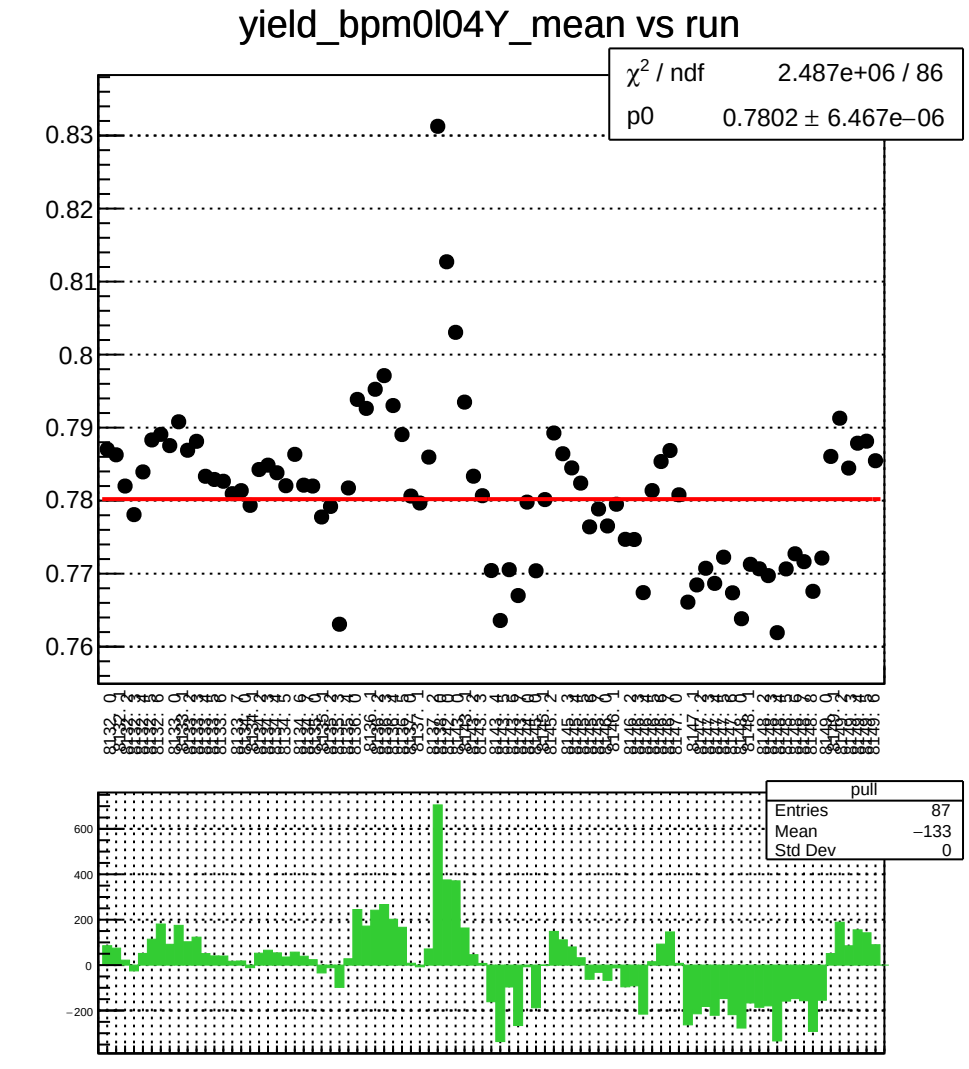

yield_bpm0l03Y_mean vs run
χ² / ndf 2.306e+06 / 86
p0 −0.46 ± 2.077e−05
pull
Entries 87
Mean 28.62
Std Dev 18.11
pull1D
Entries 87
Mean 1.667
Std Dev 4.642

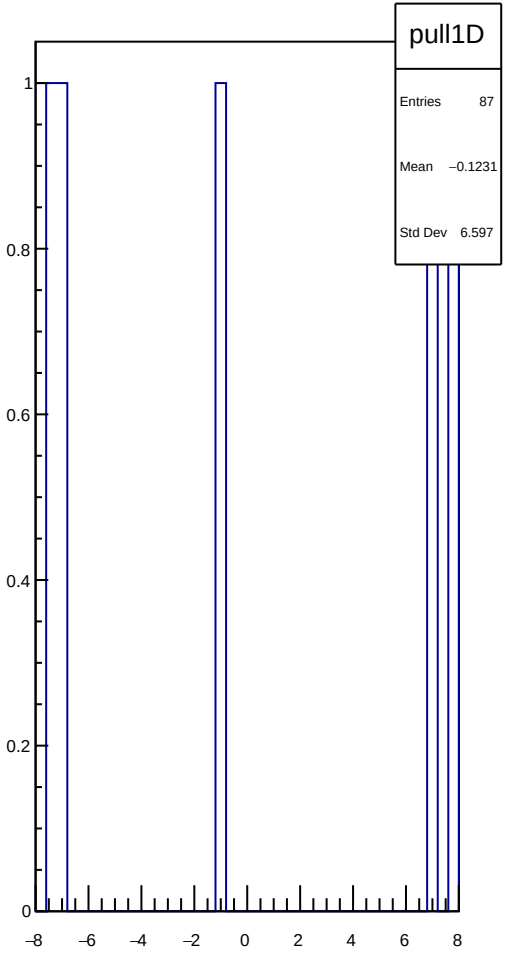

yield_bpm0l03Y_rms vs run
χ² / ndf 1.229e+06 / 86
p0 0.01028 ± 1.469e–05
1
0.8
0.6
0.4
0.2

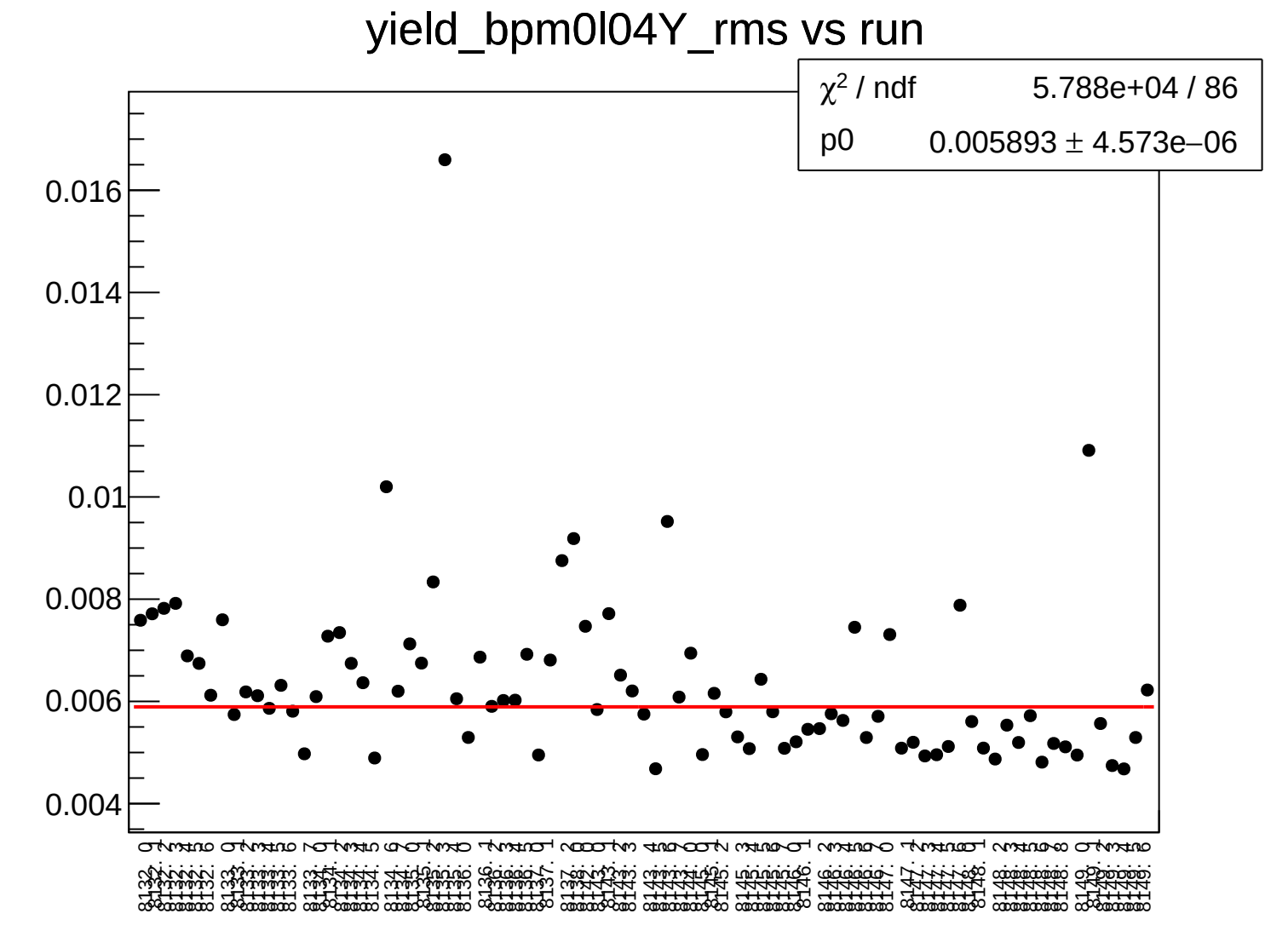

yield_bpm0l04X_mean vs run
χ² / ndf 1.068e+07 / 86
p0 −2.046 ± 2.636e−05
−1.85
−1.9
−1.95
−2
−2.05
−2.1
−2.15
−2.2
pull
Entries 87
Mean −103.8
Std Dev 0
800
600
400
200
0
−200
−400
−600

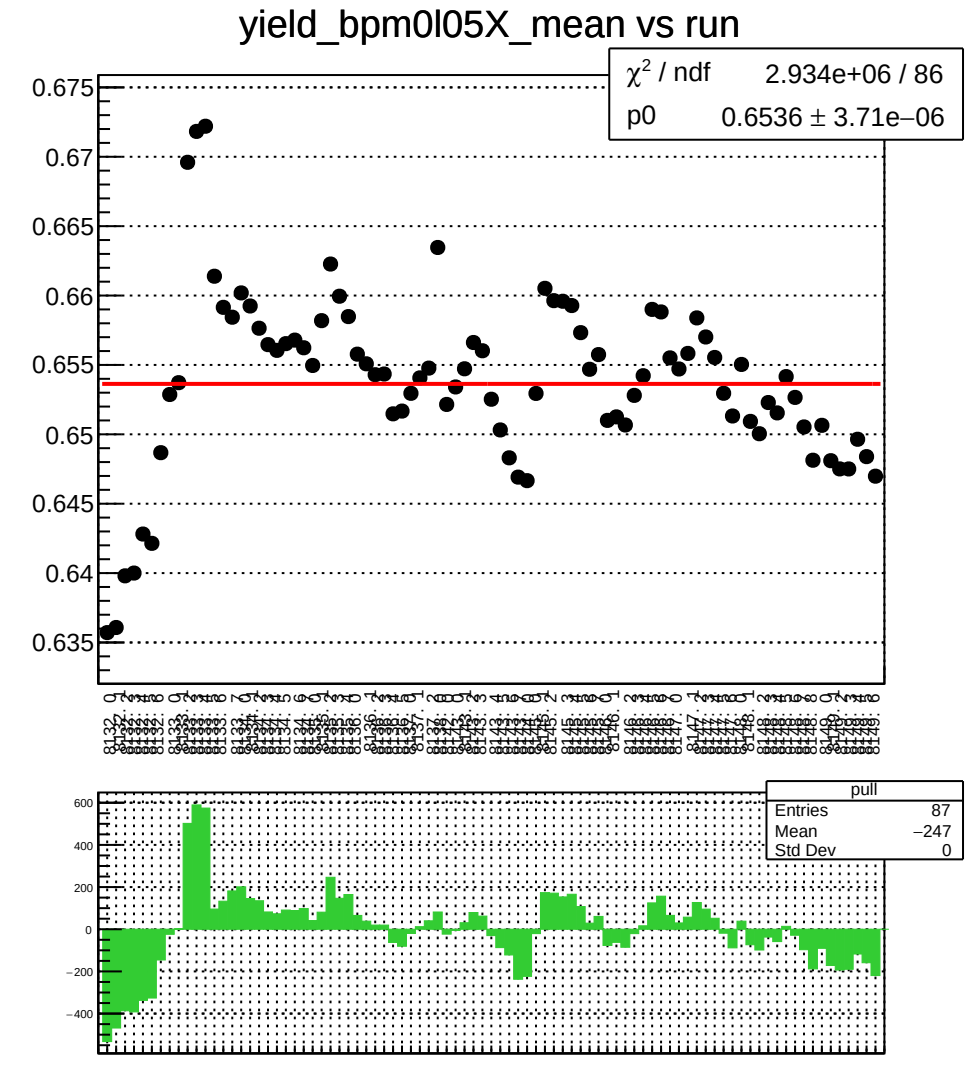

pull1D
Entries 87
Mean 2.528
Std Dev 2.265
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

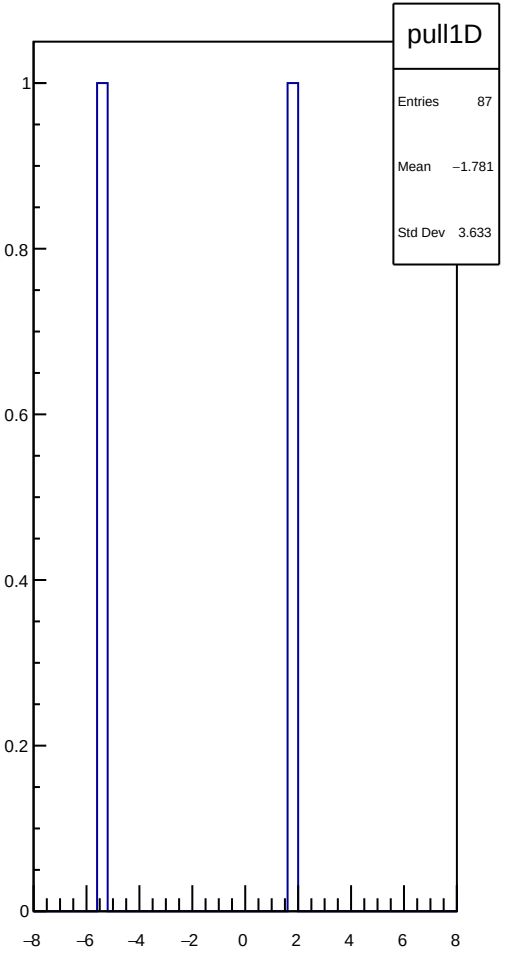

yield_bpm0l04X_rms vs run
χ^2 / ndf 7.209e+04 / 86
p0 0.02392 ± 1.864e−05
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

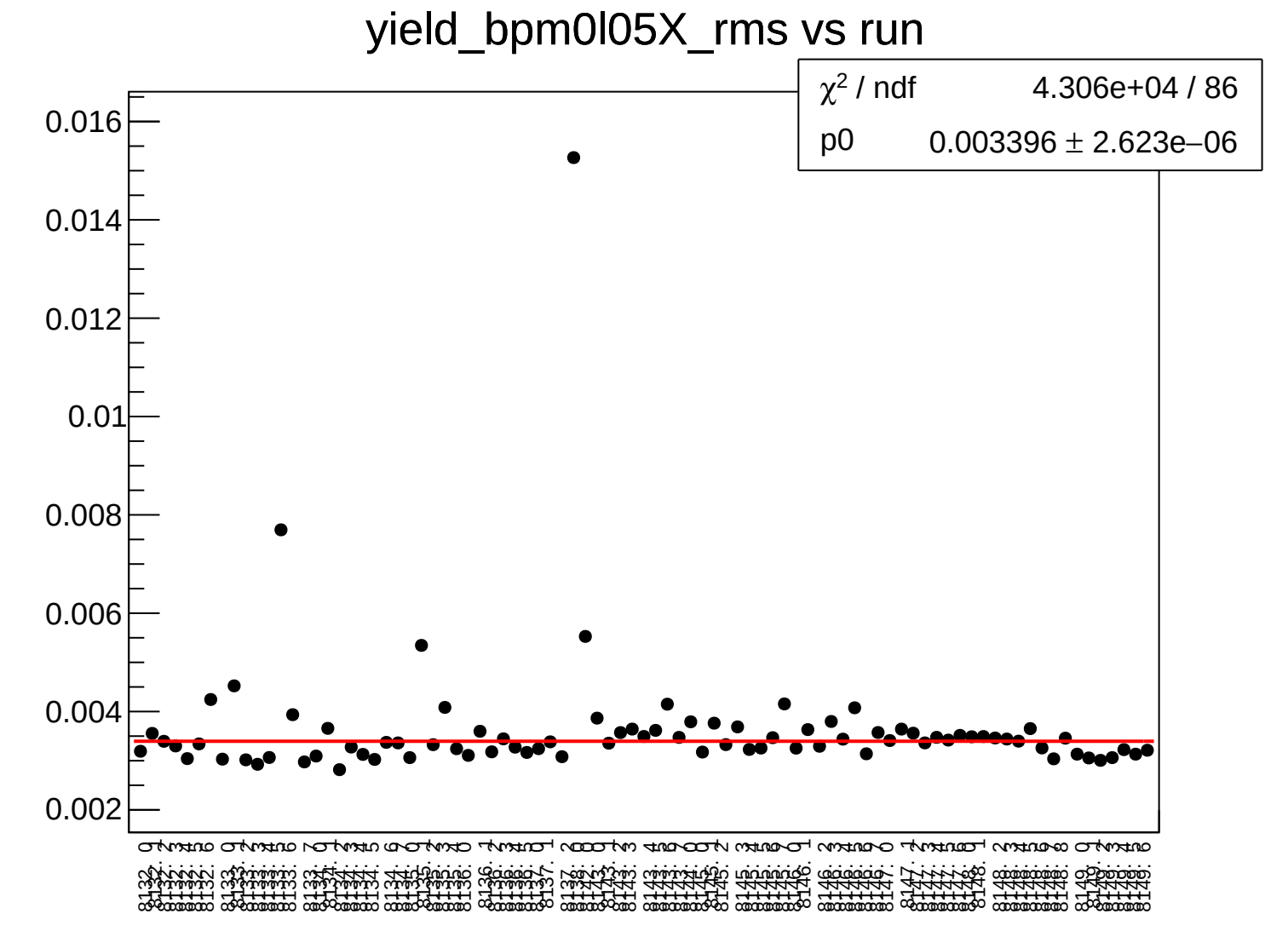

yield_bpm0l04Y_mean vs run
χ² / ndf 2.487e+06 / 86
p0 0.7802 ± 6.467e−06
0.83
0.82
0.81
0.8
0.79
0.78
0.77
0.76
pull
Entries 87
Mean −133
Std Dev 0
600
400
200
0
−200

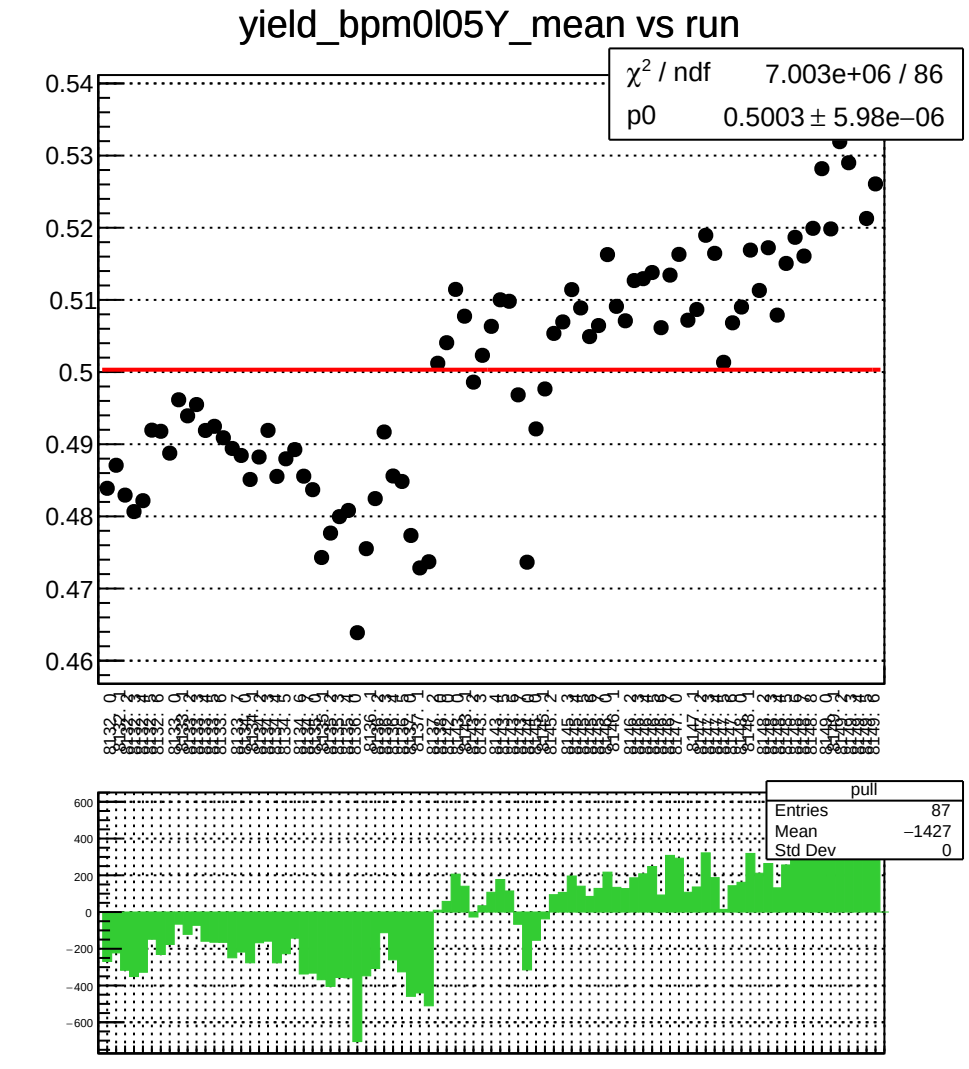

pull1D
Entries 87
Mean −0.1231
Std Dev 6.597
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

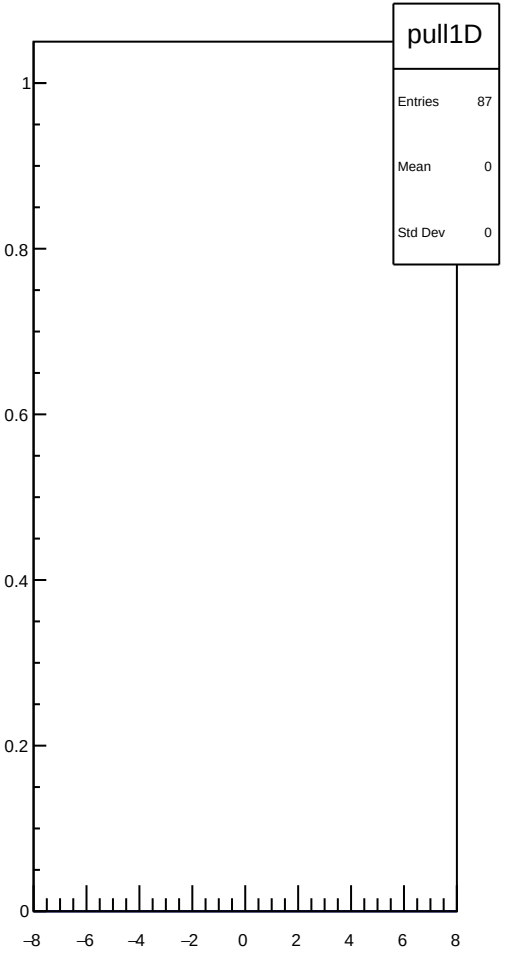

yield_bpm0l04Y_rms vs run
χ^2 / ndf 5.788e+04 / 86
p0 0.005893 ± 4.573e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004

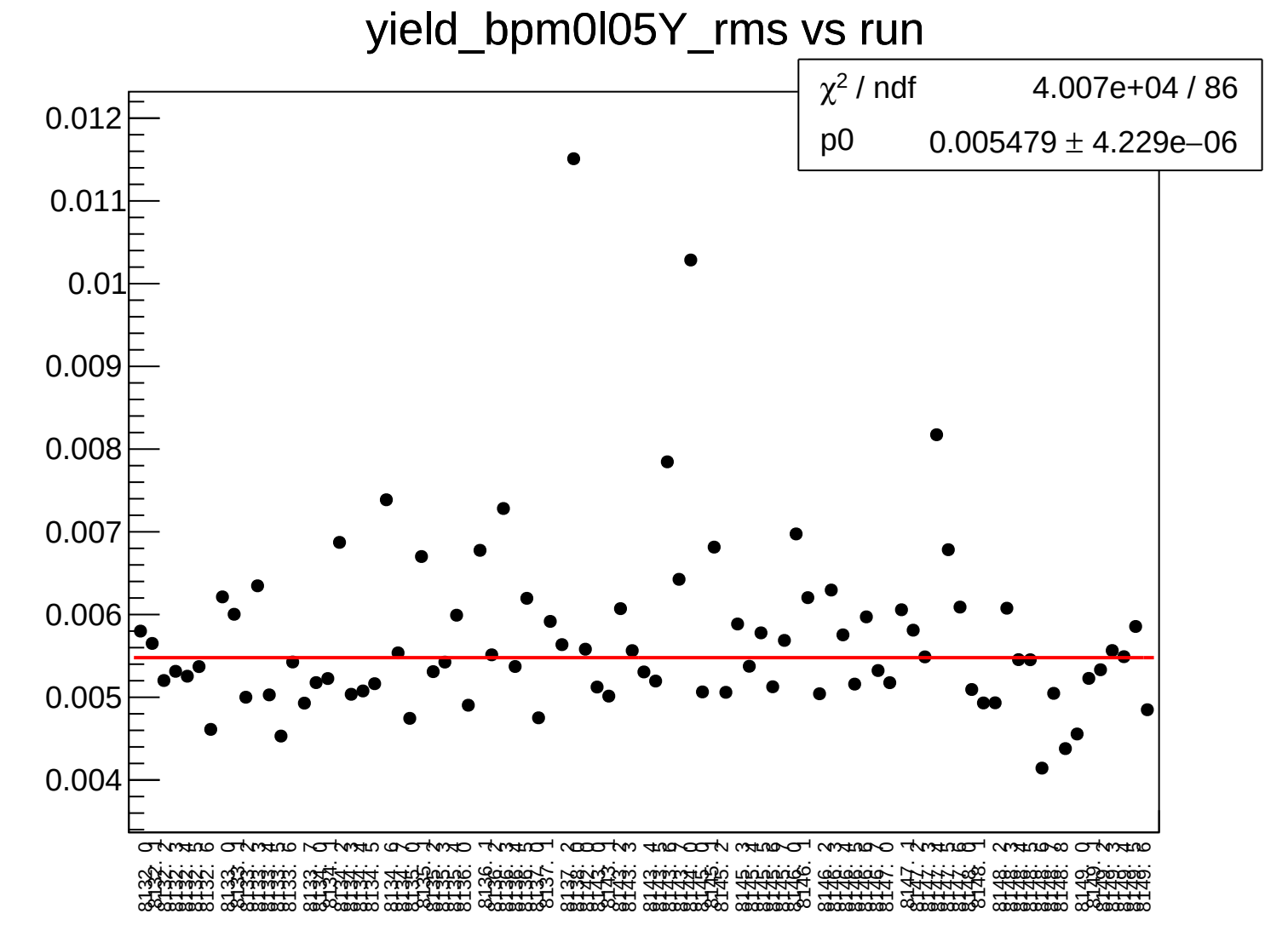

yield_bpm0l05X_mean vs run
χ² / ndf 2.934e+06 / 86
p0 0.6536 ± 3.71e−06
0.675
0.67
0.665
0.66
0.655
0.65
0.645
0.64
0.635
pull
Entries 87
Mean −247
Std Dev 0
600
400
200
0
−200
−400

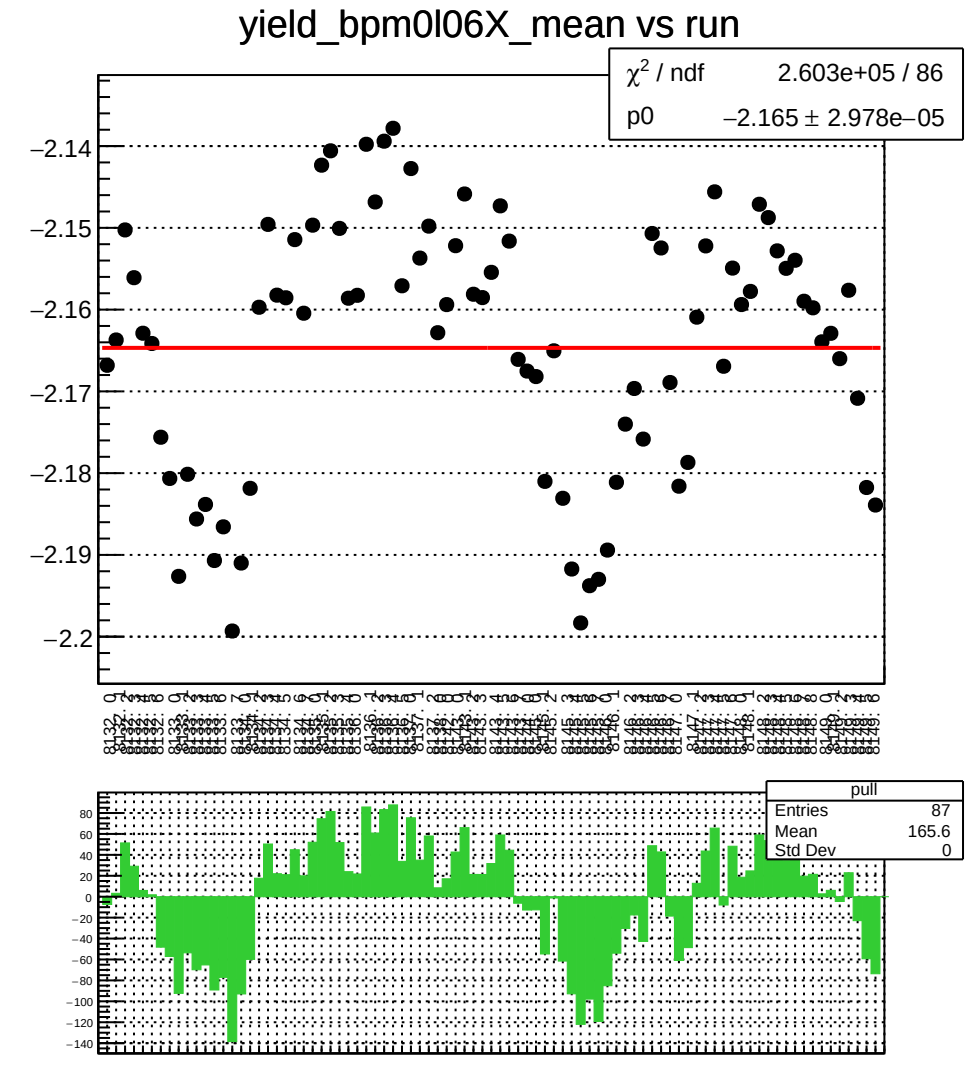

pull1D
Entries 87
Mean −1.781
Std Dev 3.633
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

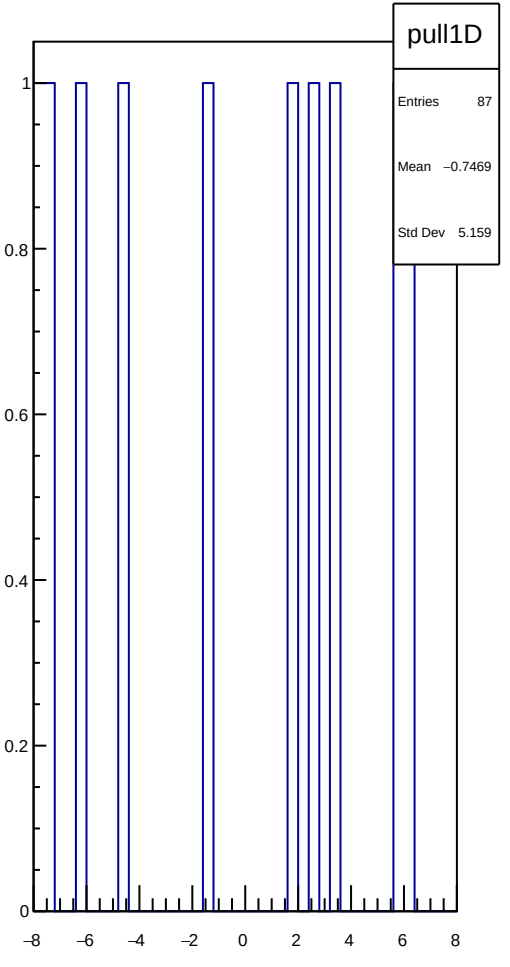

yield_bpm0l05X_rms vs run
χ² / ndf 4.306e+04 / 86
p0 0.003396 ± 2.623e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

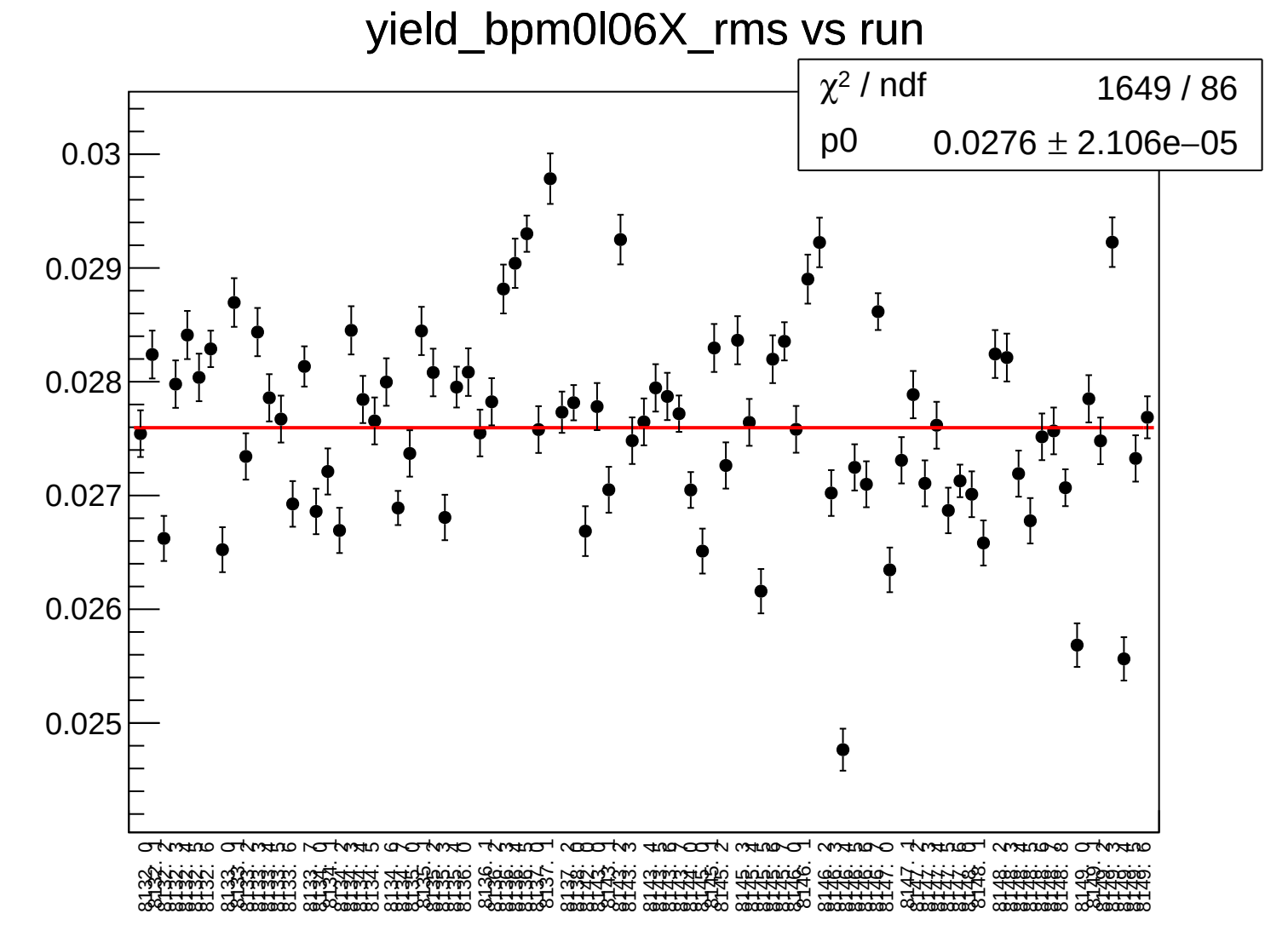

yield_bpm0l05Y_mean vs run
χ² / ndf 7.003e+06 / 86
p0 0.5003 ± 5.98e−06
pull
Entries 87
Mean −1427
Std Dev 0

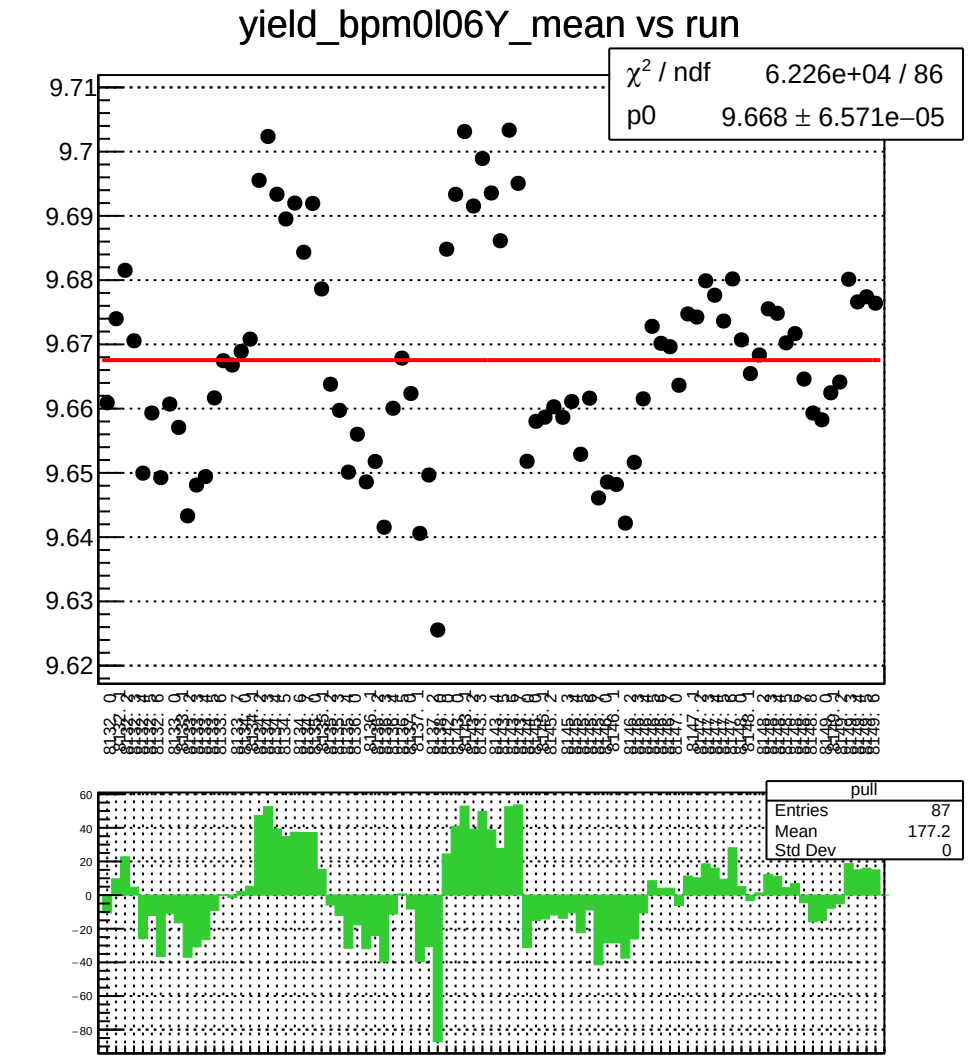

pull1D
Entries 87
Mean 0
Std Dev 0

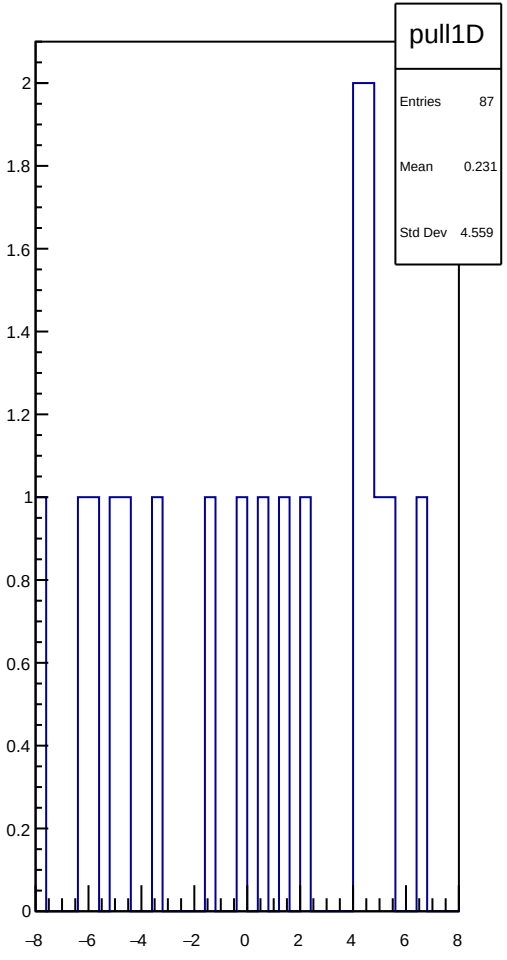

yield_bpm0l05Y_rms vs run
χ² / ndf 4.007e+04 / 86
p0 0.005479 ± 4.229e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004

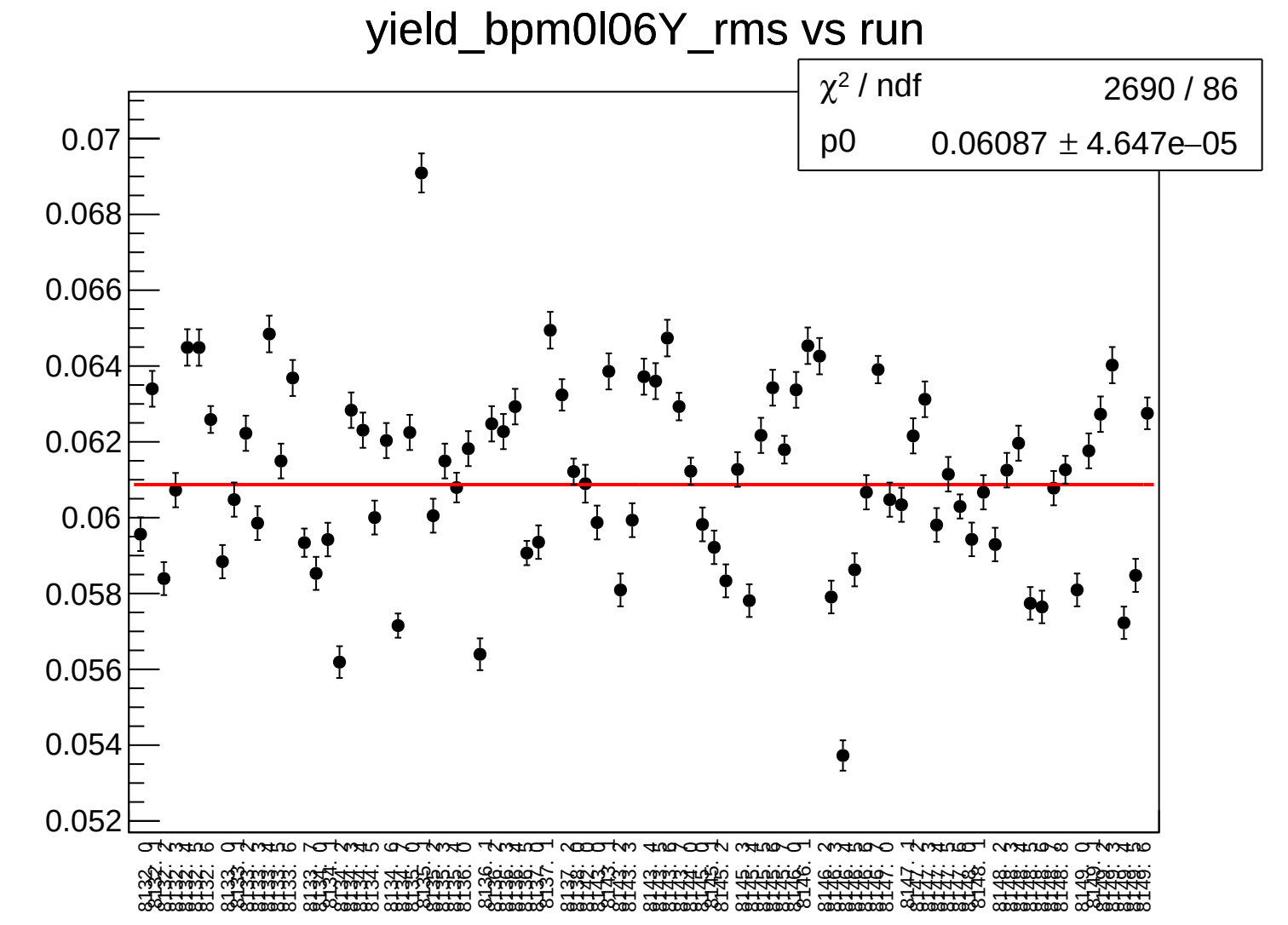

yield_bpm0l06X_mean vs run
χ² / ndf 2.603e+05 / 86
p0 −2.165 ± 2.978e−05
−2.14
−2.15
−2.16
−2.17
−2.18
−2.19
−2.2
pull
Entries 87
Mean 165.6
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100
−120
−140

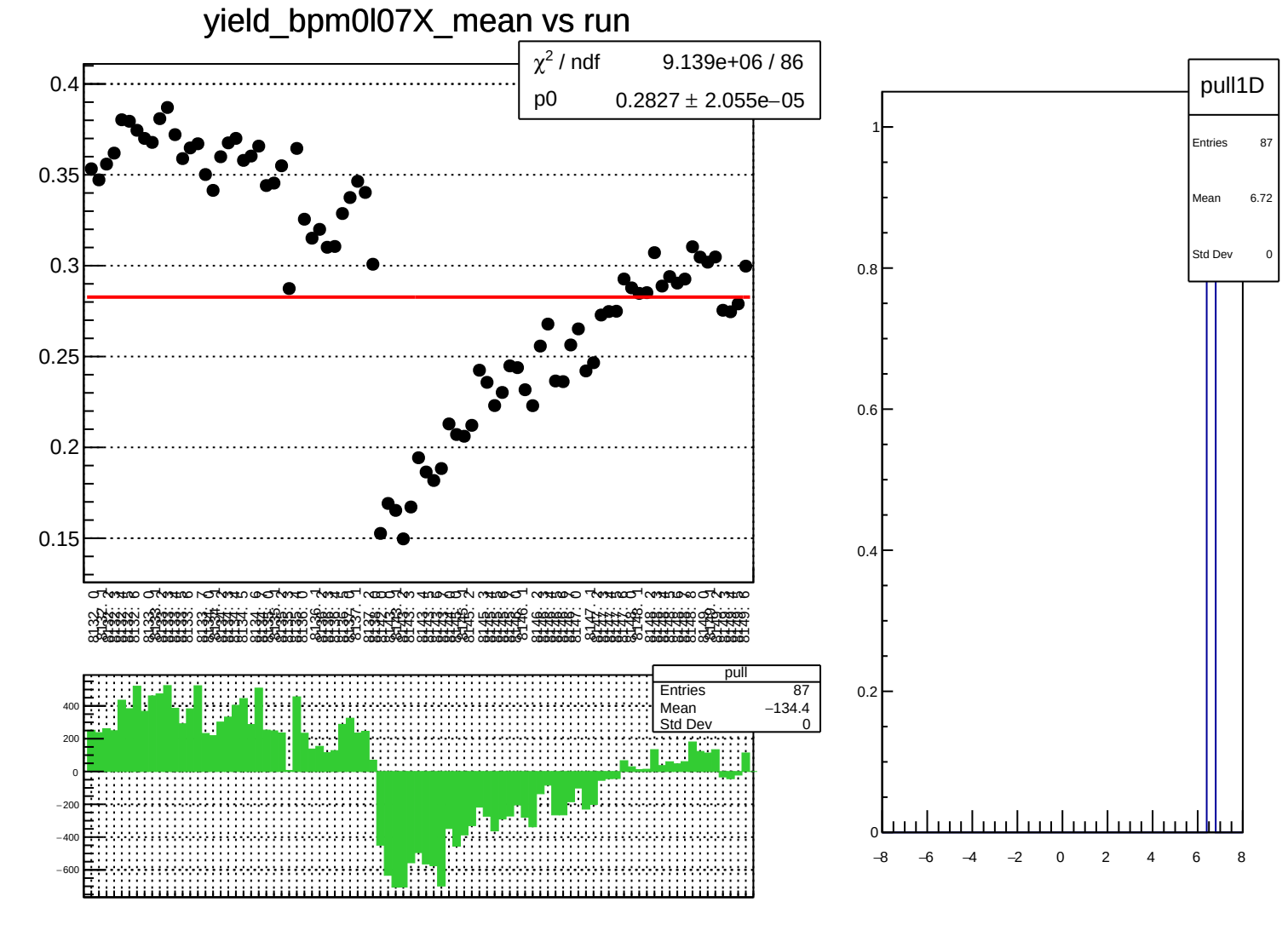

pull1D
Entries 87
Mean −0.7469
Std Dev 5.159
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

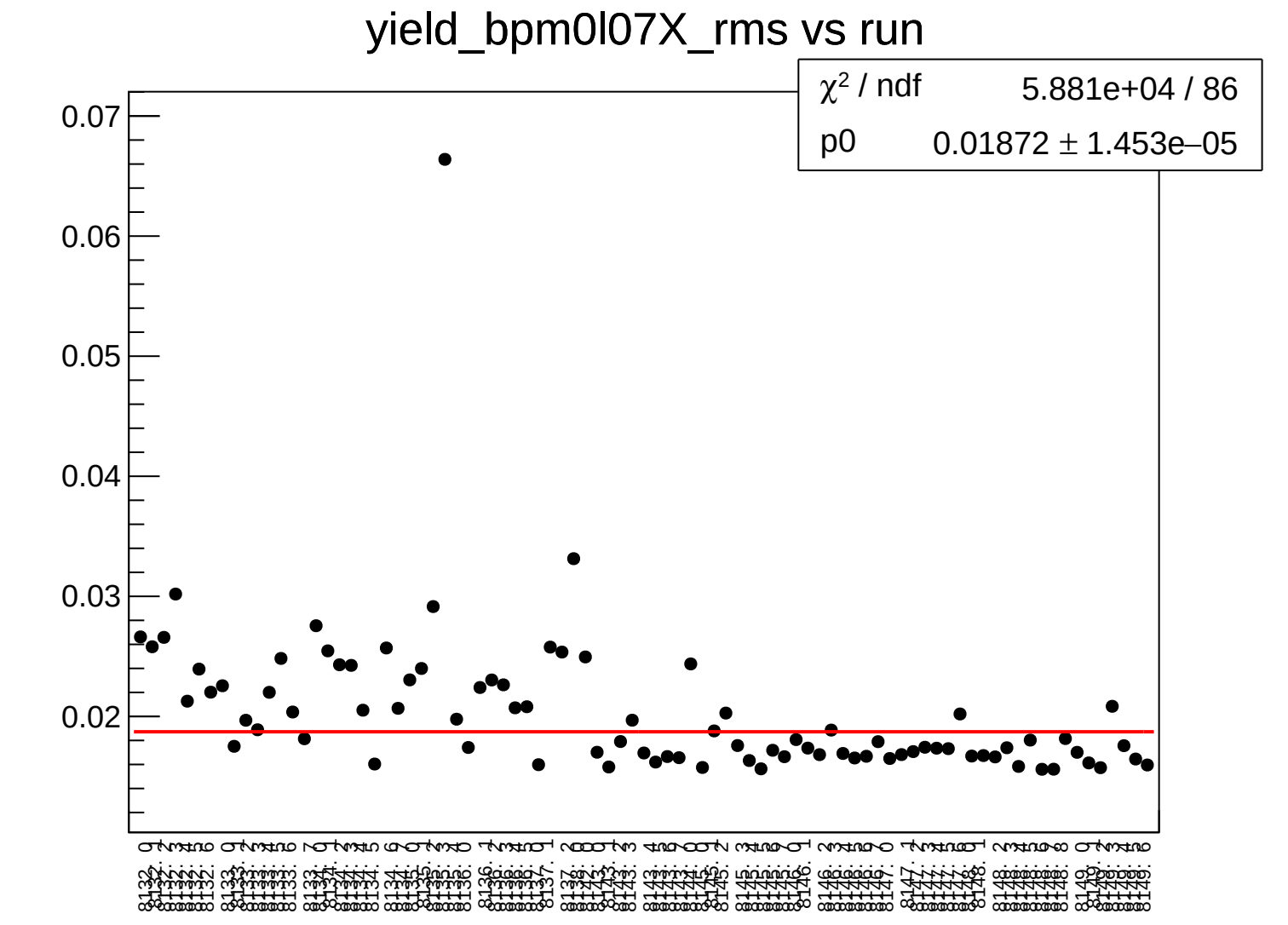

yield_bpm0l06X_rms vs run
χ² / ndf 1649 / 86
p0 0.0276 ± 2.106e−05
0.03
0.029
0.028
0.027
0.026
0.025

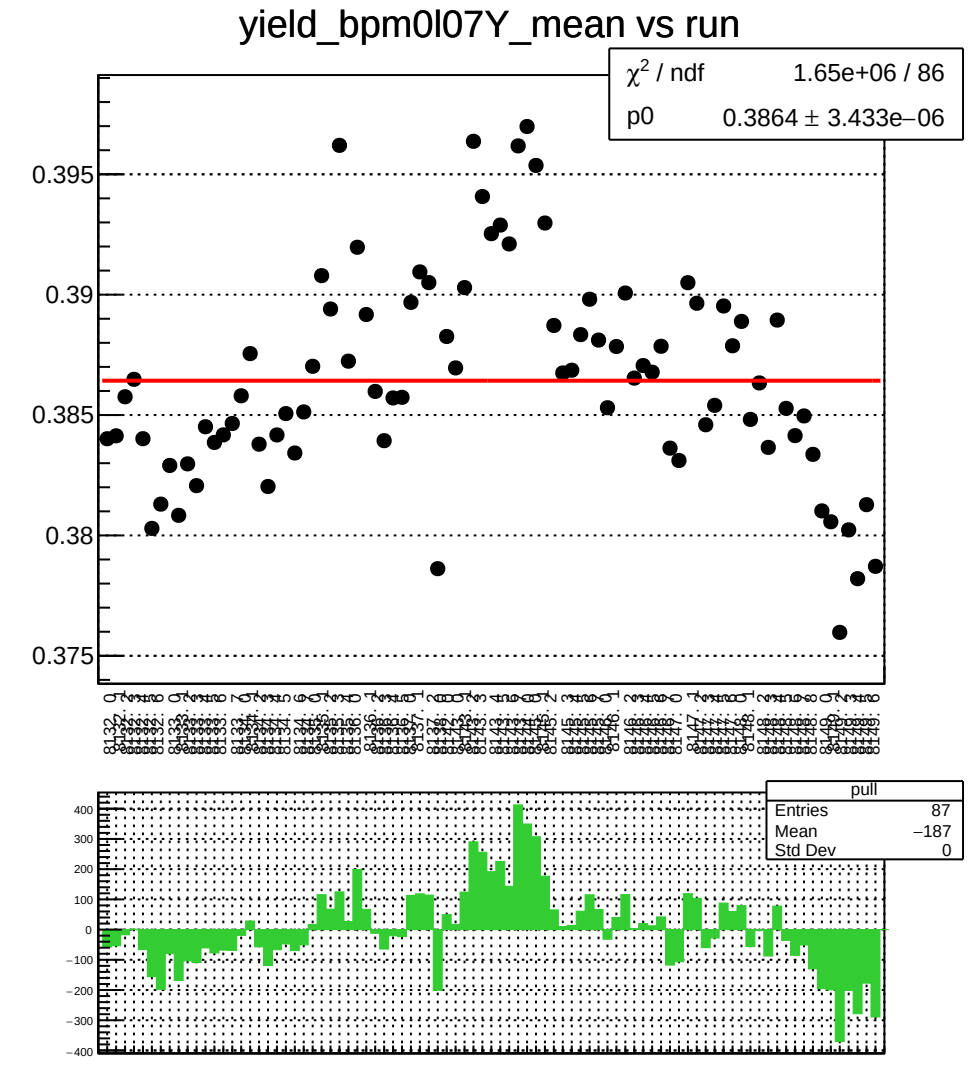

yield_bpm0l06Y_mean vs run
χ² / ndf 6.226e+04 / 86
p0 9.668 ± 6.571e−05
9.71
9.7
9.69
9.68
9.67
9.66
9.65
9.64
9.63
9.62
pull
Entries 87
Mean 177.2
Std Dev 0
60
40
20
0
−20
−40
−60
−80

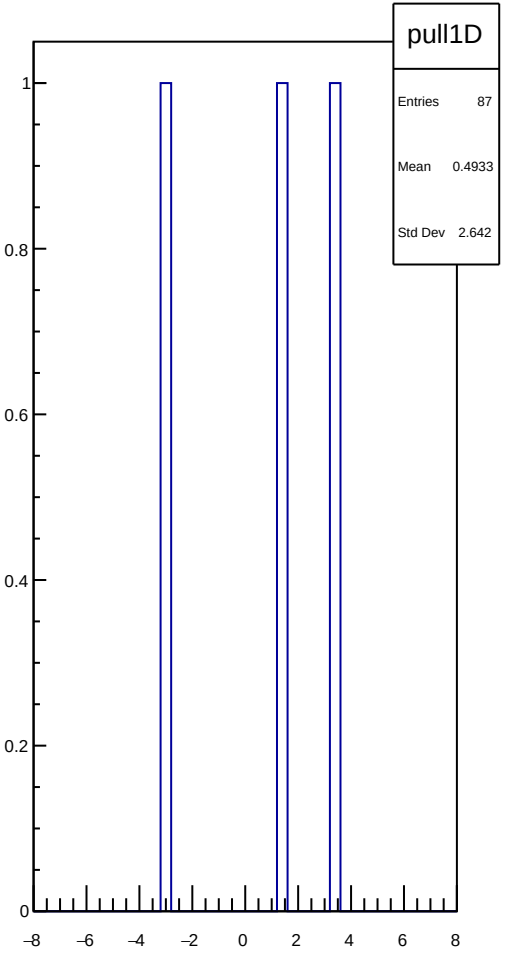

pull1D
Entries 87
Mean 0.231
Std Dev 4.559
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

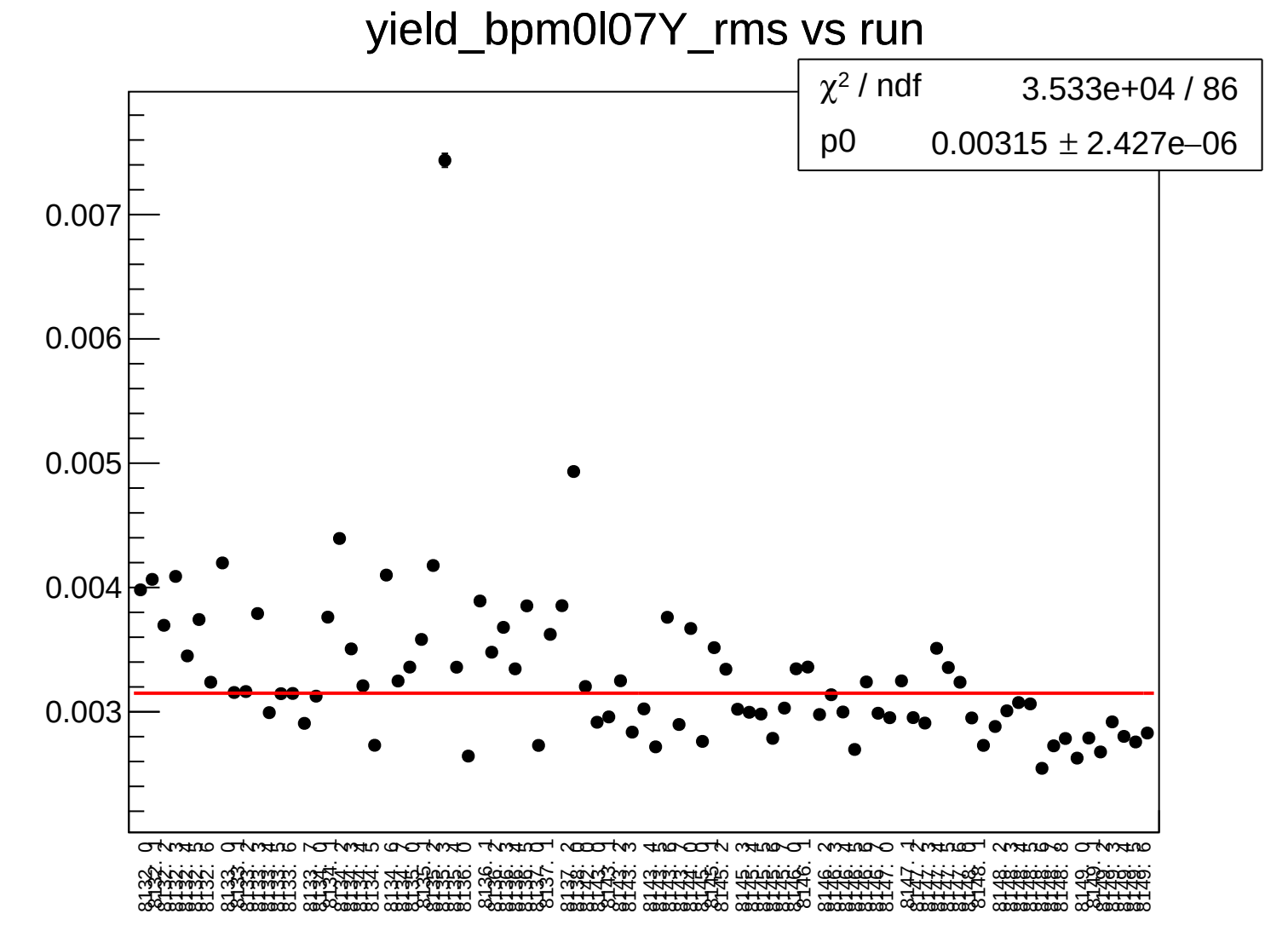

yield_bpm0l06Y_rms vs run
χ² / ndf 2690 / 86
p0 0.06087 ± 4.647e–05
0.07
0.068
0.066
0.064
0.062
0.06
0.058
0.056
0.054
0.052

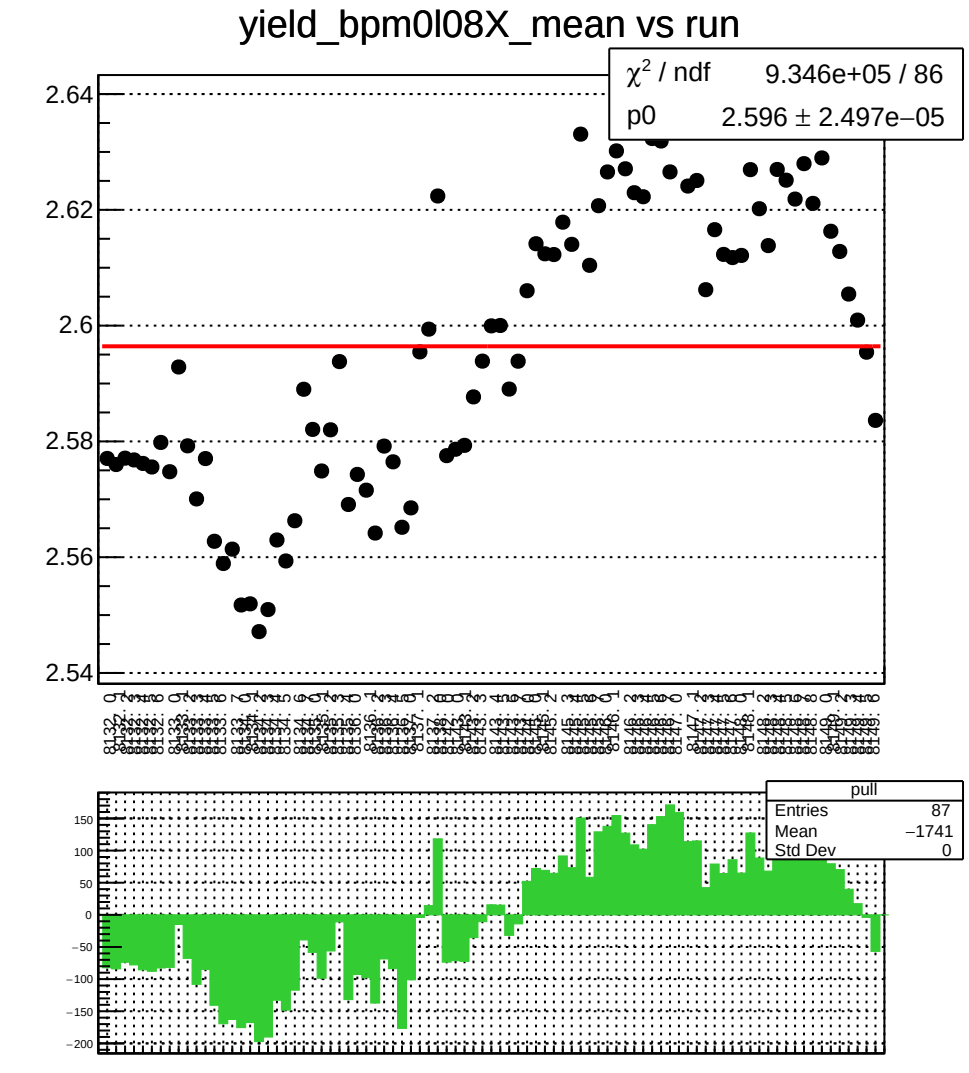

yield_bpm0l07X_mean vs run
χ² / ndf 9.139e+06 / 86
p0 0.2827 ± 2.055e−05
0.4
0.35
0.3
0.25
0.2
0.15
pull
Entries 87
Mean −134.4
Std Dev 0
400
200
0
−200
−400
−600
pull1D
Entries 87
Mean 6.72
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

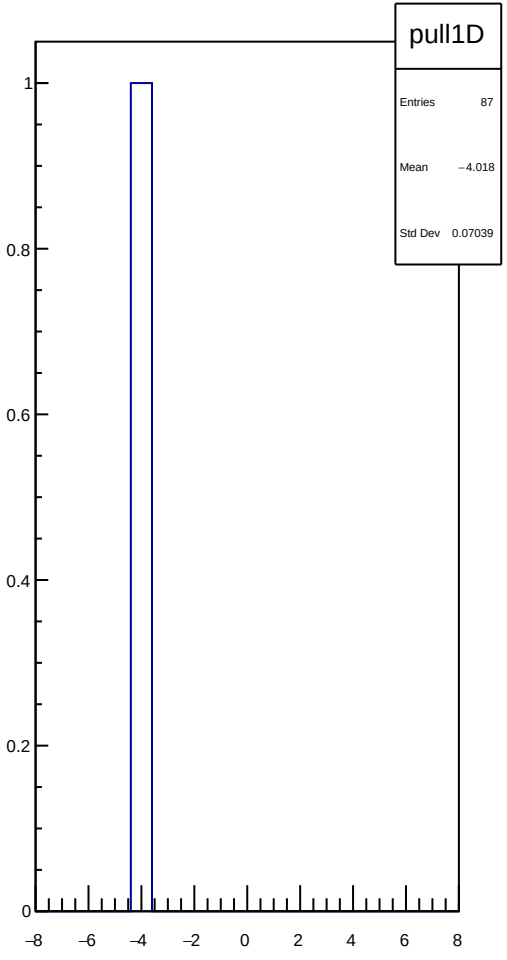

yield_bpm0l07X_rms vs run
χ^2 / ndf 5.881e+04 / 86
p0 0.01872 ± 1.453e−05
0.07
0.06
0.05
0.04
0.03
0.02

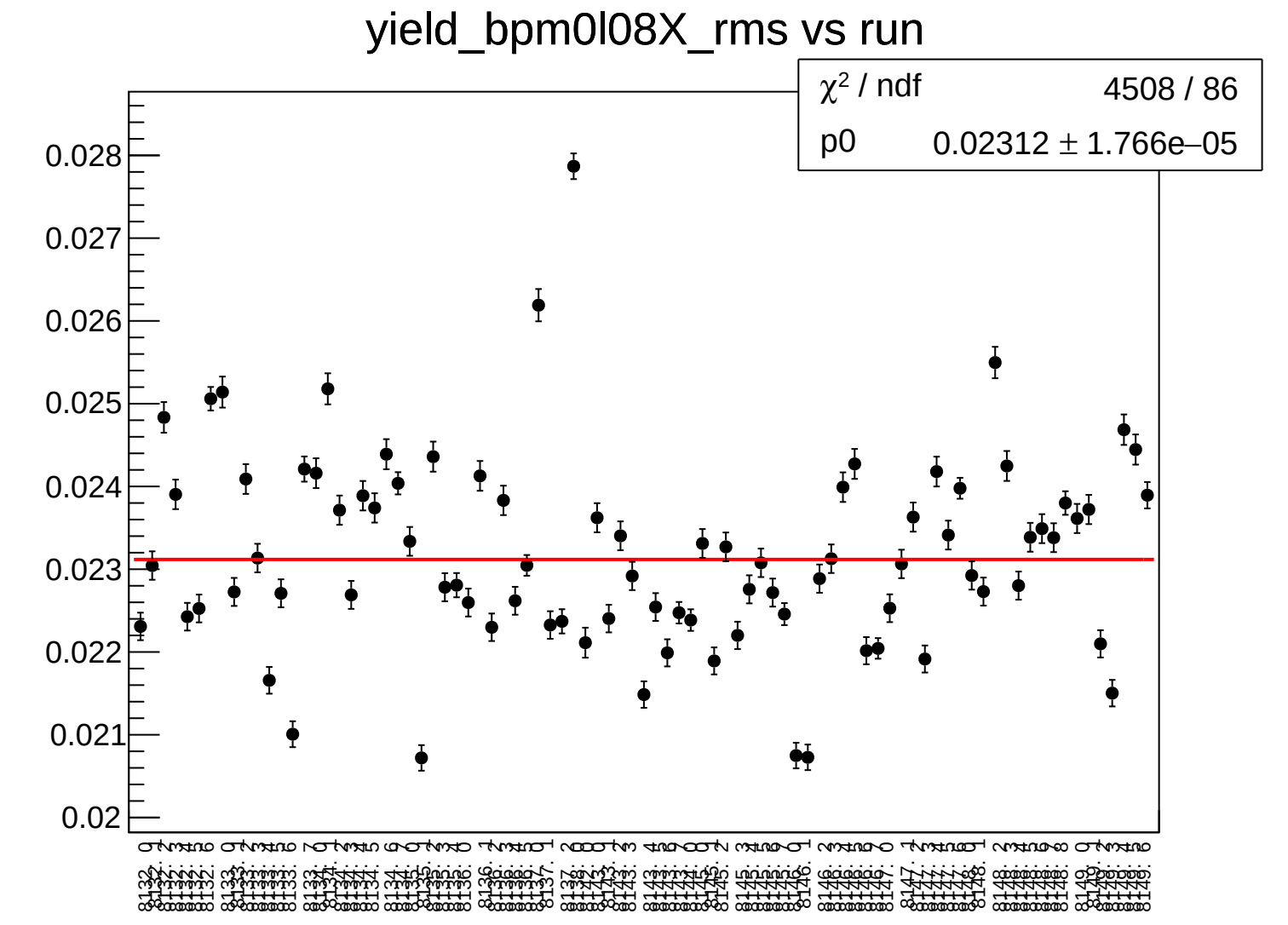

yield_bpm0l07Y_mean vs run
χ² / ndf 1.65e+06 / 86
p0 0.3864 ± 3.433e−06
0.395
0.39
0.385
0.38
0.375
pull
Entries 87
Mean −187
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400

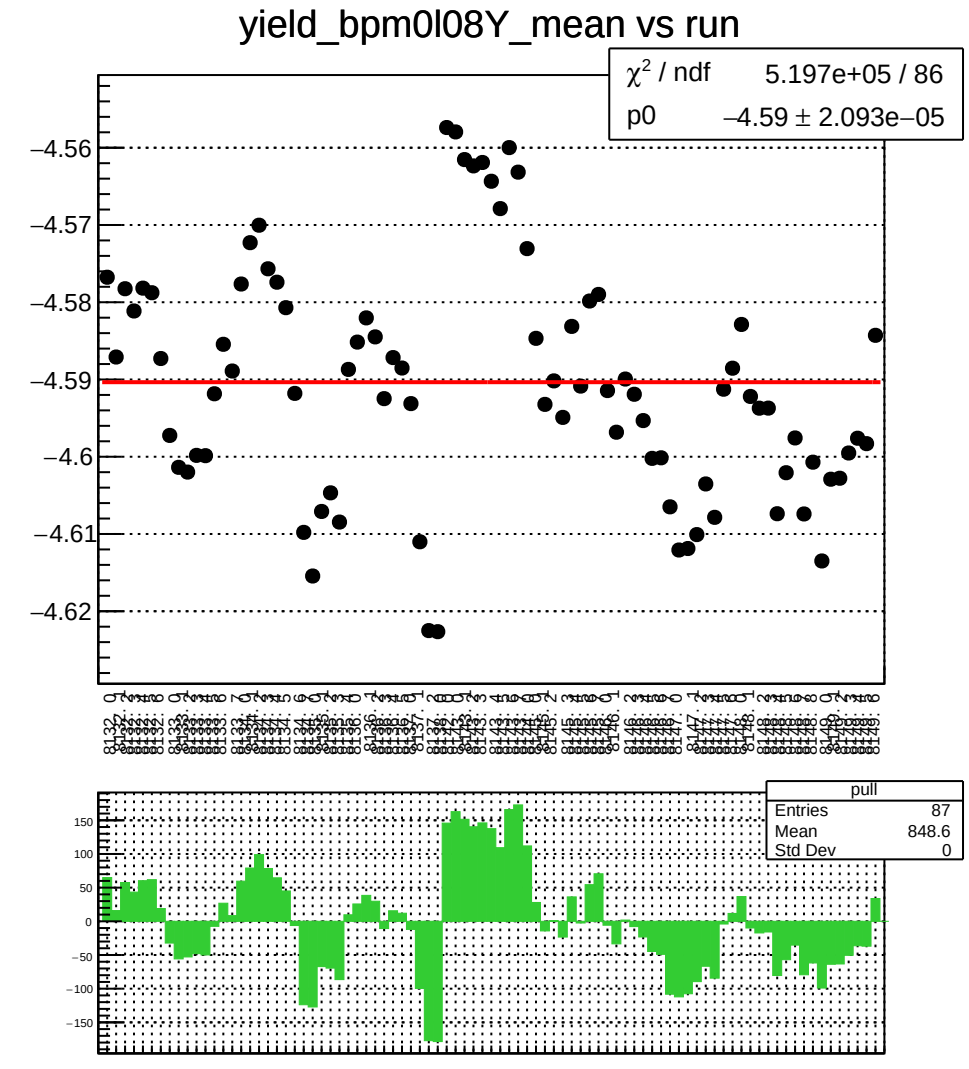

pull1D
Entries 87
Mean 0.4933
Std Dev 2.642
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

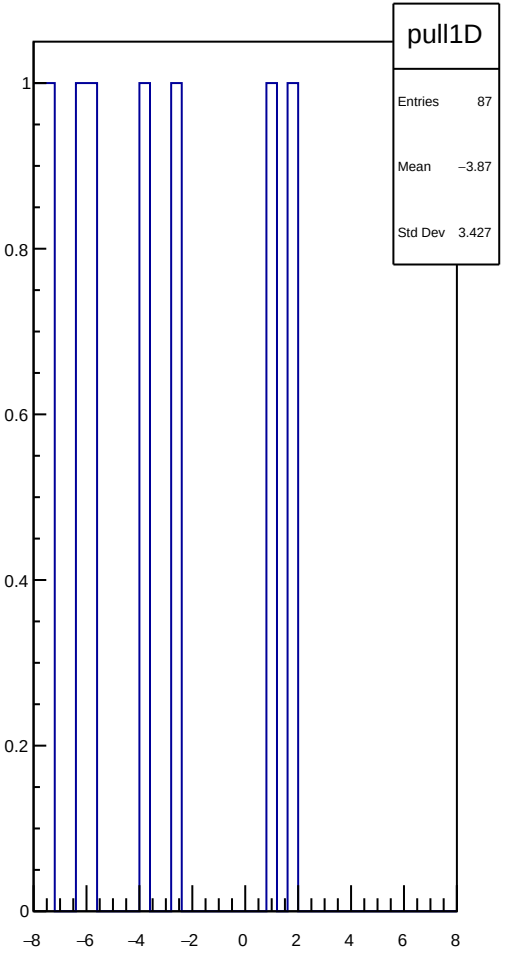

yield_bpm0l07Y_rms vs run
χ² / ndf 3.533e+04 / 86
p0 0.00315 ± 2.427e–06
0.007
0.006
0.005
0.004
0.003

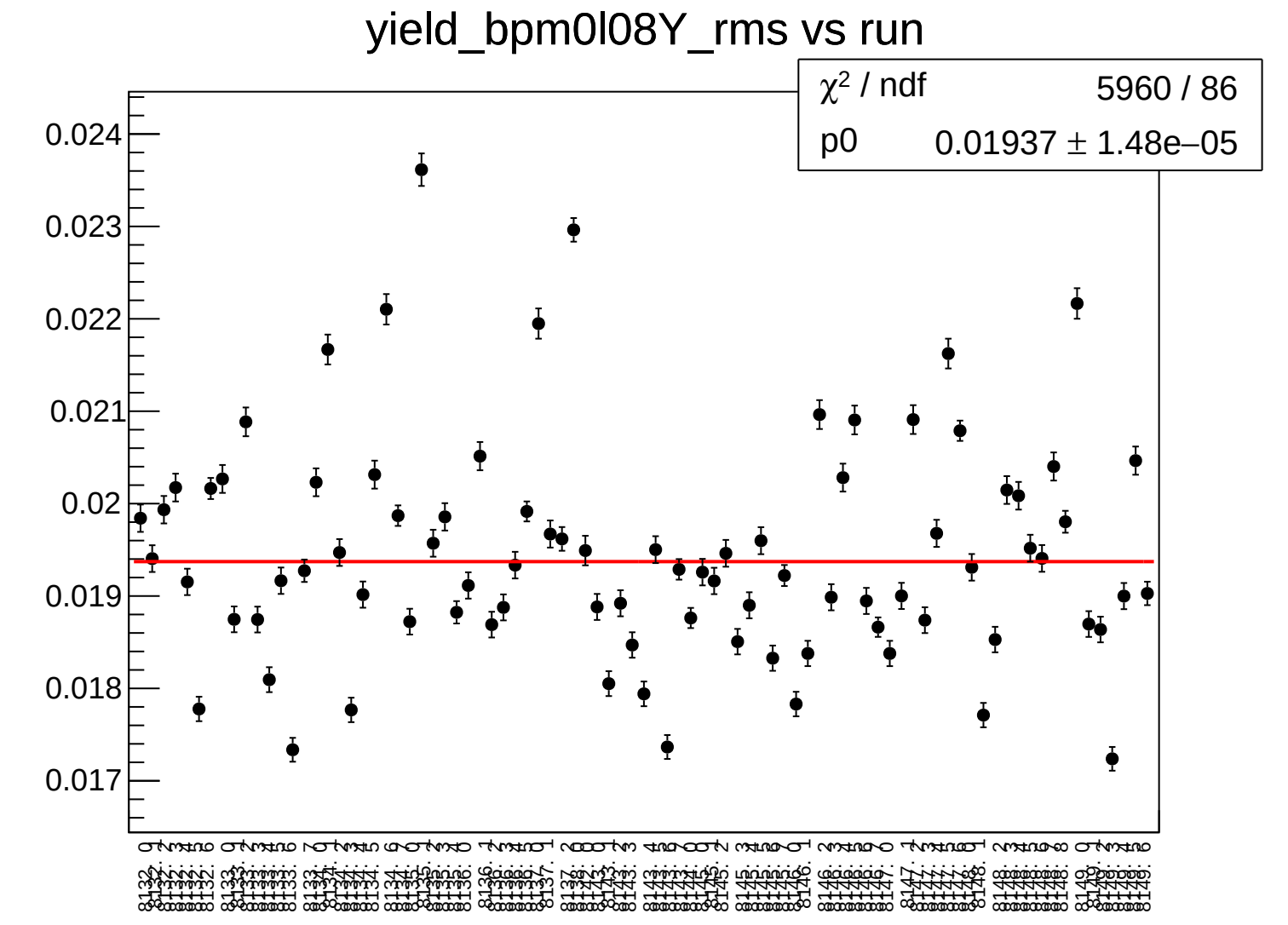

yield_bpm0l08X_mean vs run
χ² / ndf 9.346e+05 / 86
p0 2.596 ± 2.497e−05
2.64
2.62
2.6
2.58
2.56
2.54
pull
Entries 87
Mean −1741
Std Dev 0
150
100
50
0
−50
−100
−150
−200

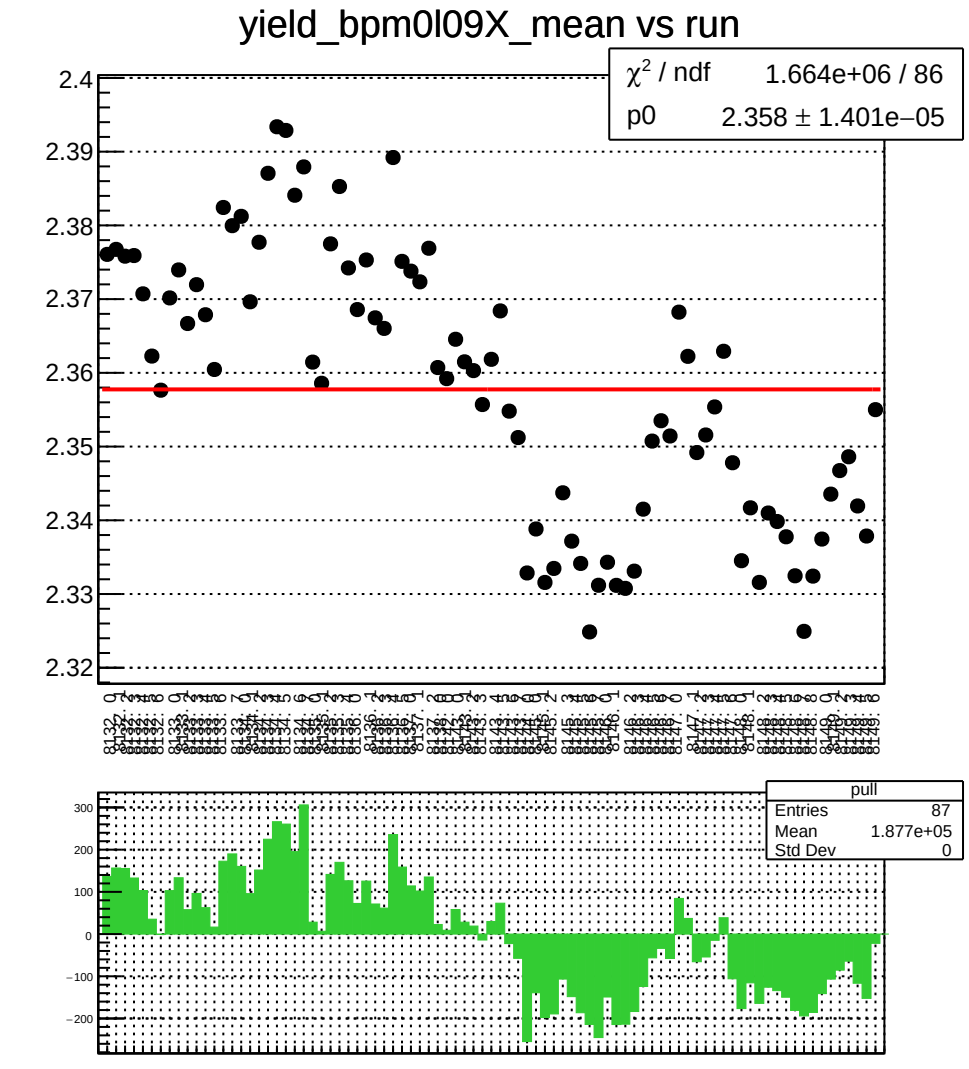

pull1D
Entries 87
Mean −4.018
Std Dev 0.07039
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

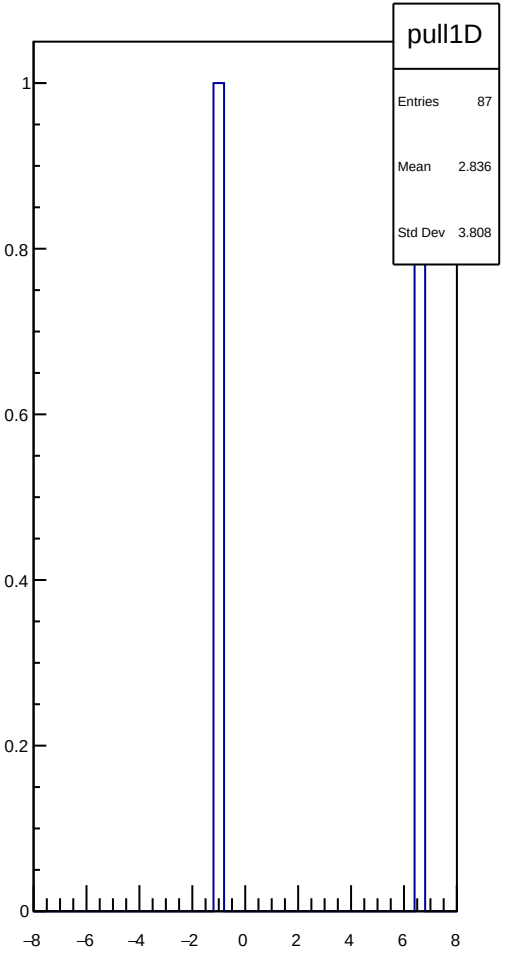

yield_bpm0l08X_rms vs run
χ² / ndf 4508 / 86
p0 0.02312 ± 1.766e–05
0.028
0.027
0.026
0.025
0.024
0.023
0.022
0.021
0.02

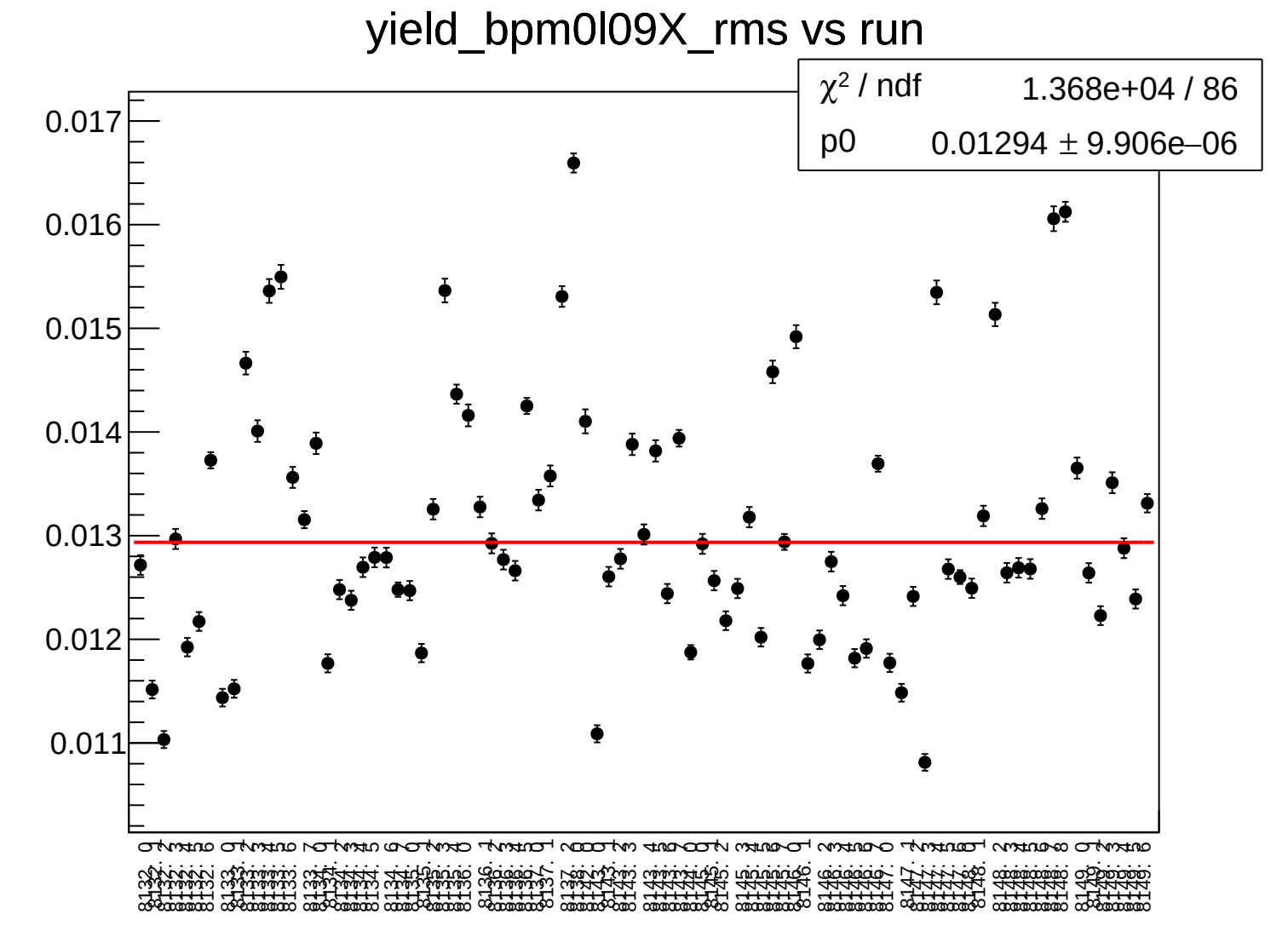

yield_bpm0l08Y_mean vs run
χ² / ndf 5.197e+05 / 86
p0 −4.59 ± 2.093e−05
−4.56
−4.57
−4.58
−4.59
−4.6
−4.61
−4.62
pull
Entries 87
Mean 848.6
Std Dev 0
150
100
50
0
−50
−100
−150

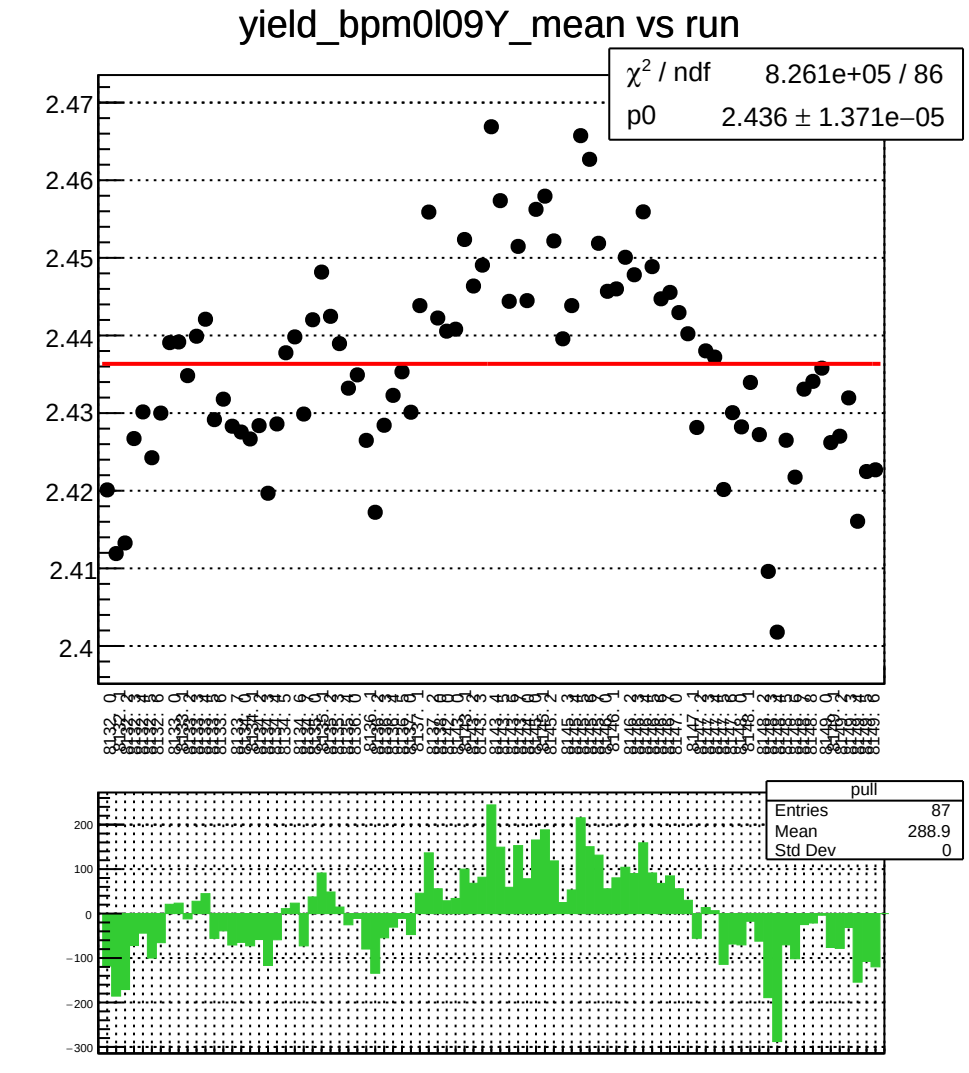

pull1D
Entries 87
Mean −3.87
Std Dev 3.427
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

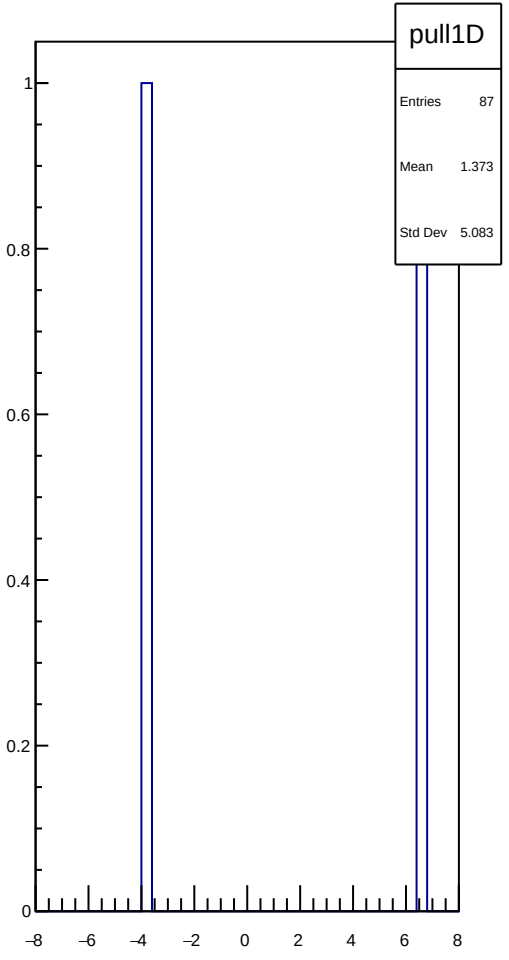

yield_bpm0l08Y_rms vs run
χ² / ndf 5960 / 86
p0 0.01937 ± 1.48e−05
0.024
0.023
0.022
0.021
0.02
0.019
0.018
0.017

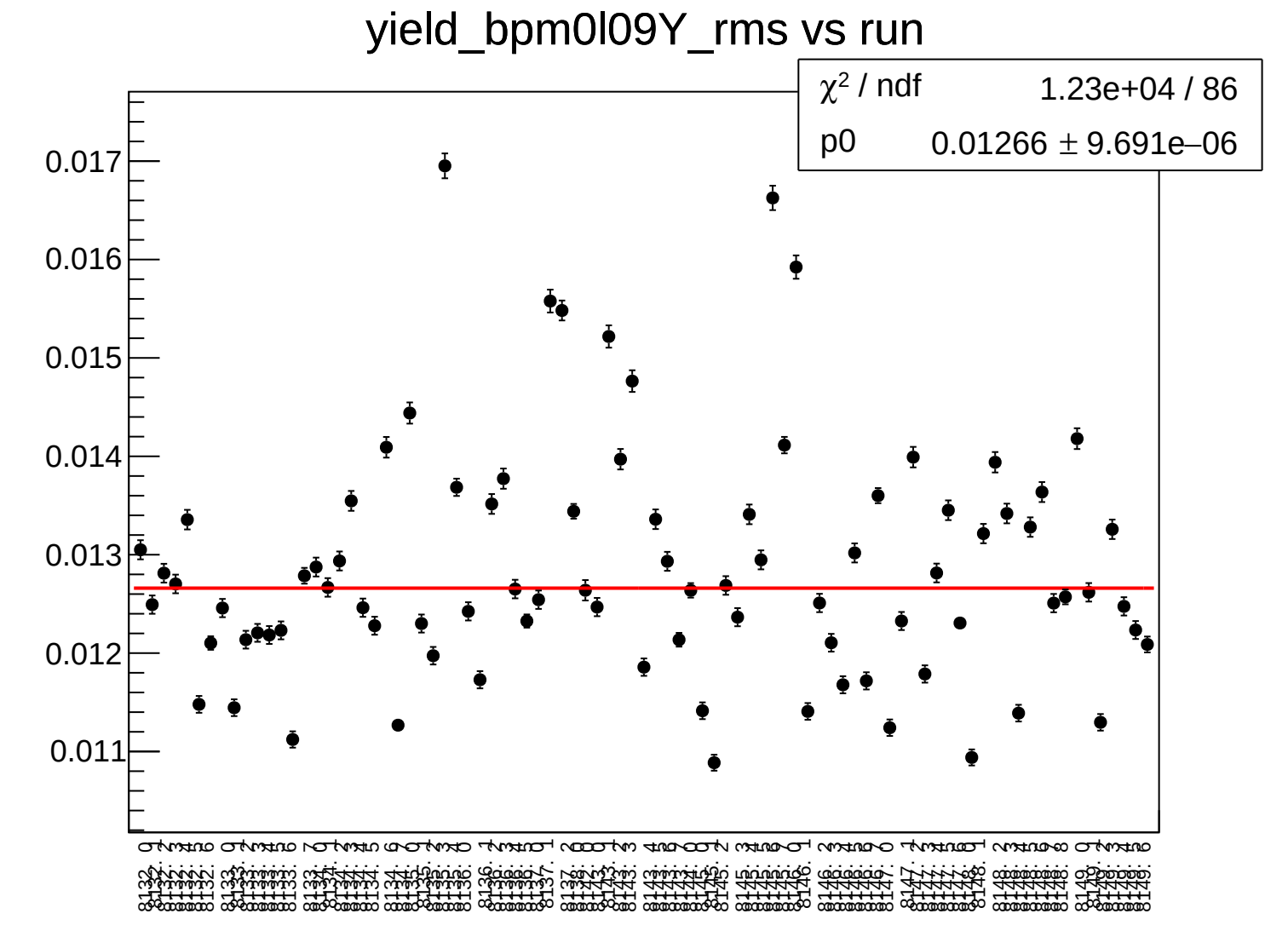

yield_bpm0l09X_mean vs run
χ² / ndf 1.664e+06 / 86
p0 2.358 ± 1.401e−05
2.4
2.39
2.38
2.37
2.36
2.35
2.34
2.33
2.32
pull
Entries 87
Mean 1.877e+05
Std Dev 0
300
200
100
0
−100
−200

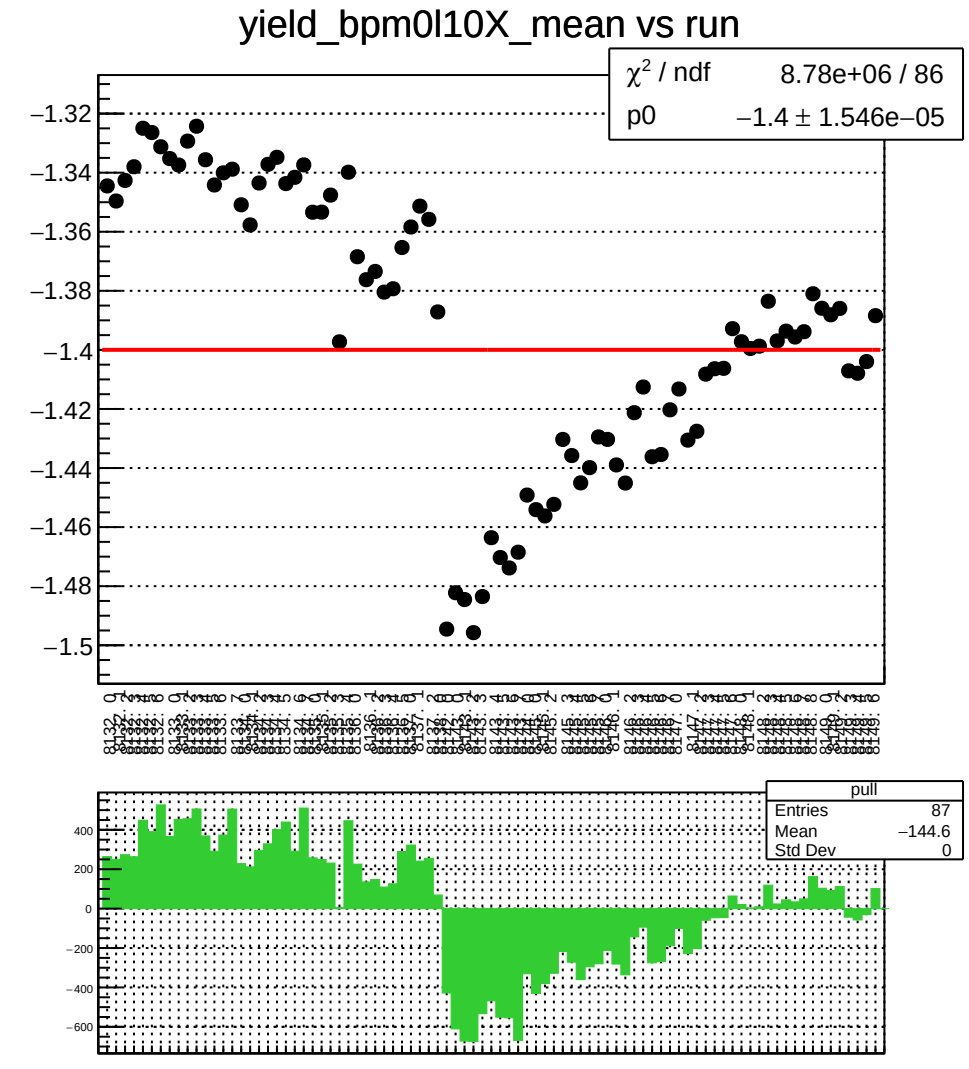

pull1D
Entries 87
Mean 2.836
Std Dev 3.808
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

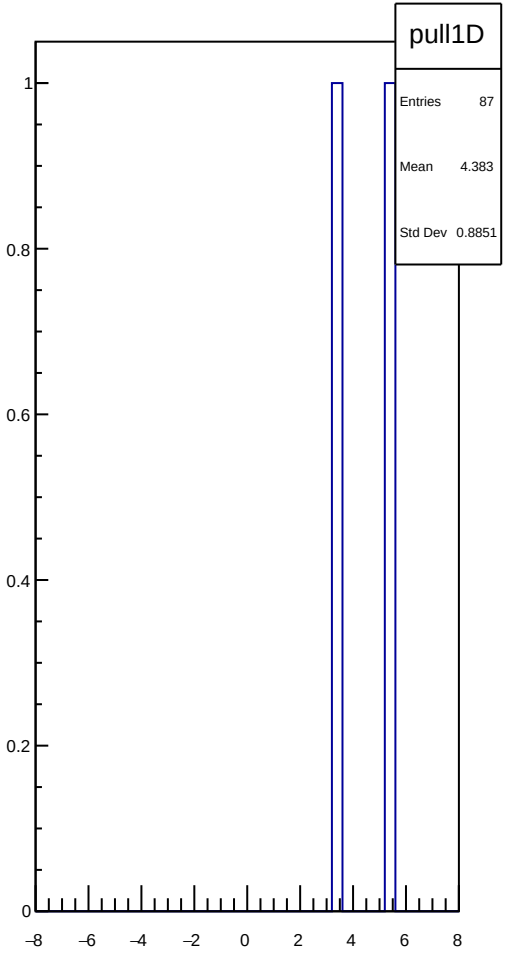

yield_bpm0l09X_rms vs run
χ² / ndf 1.368e+04 / 86
p0 0.01294 ± 9.906e–06
0.017
0.016
0.015
0.014
0.013
0.012
0.011

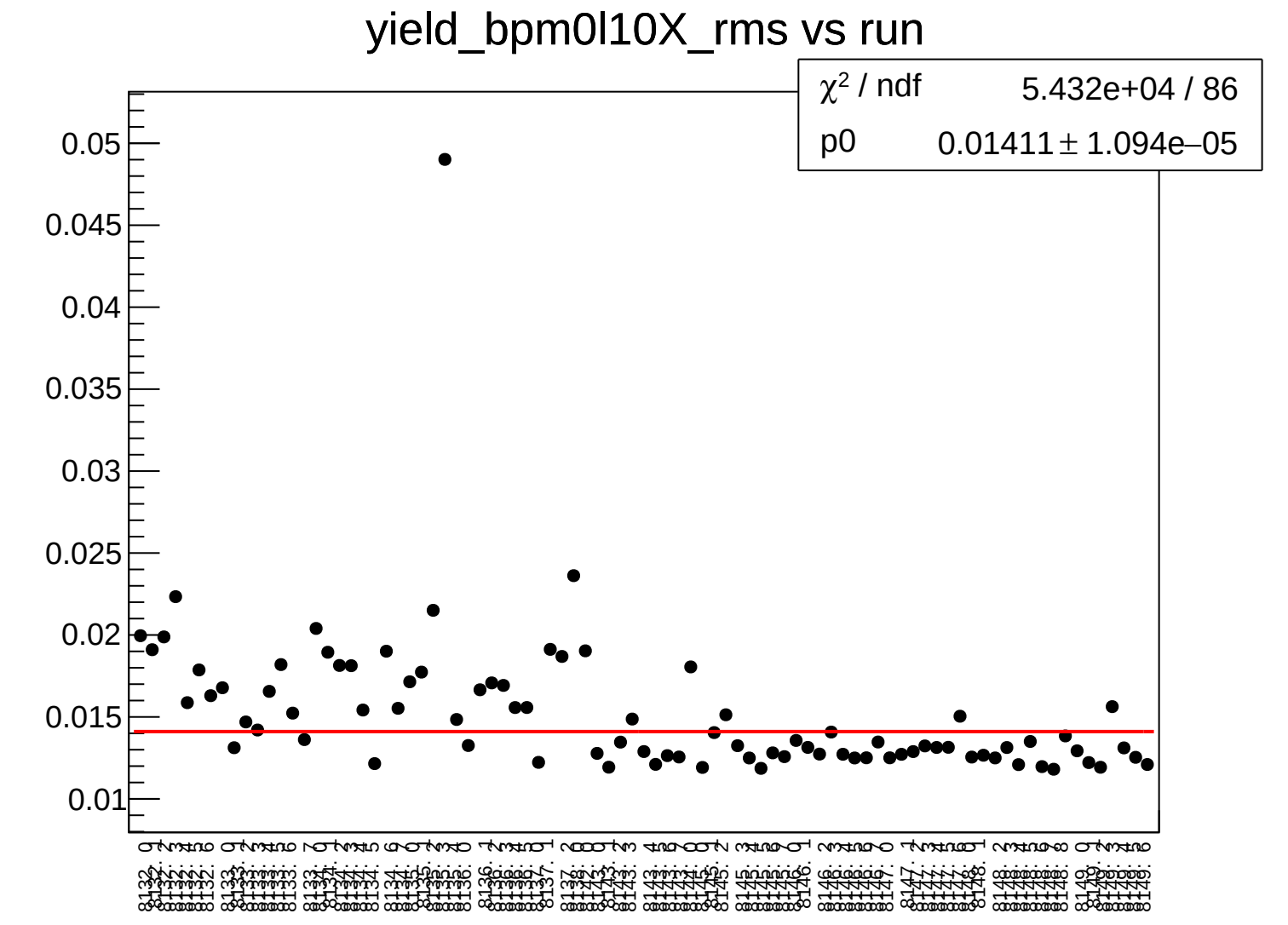

yield_bpm0l09Y_mean vs run
χ² / ndf 8.261e+05 / 86
p0 2.436 ± 1.371e−05
2.47
2.46
2.45
2.44
2.43
2.42
2.41
2.4
pull
Entries 87
Mean 288.9
Std Dev 0
200
100
0
−100
−200
−300

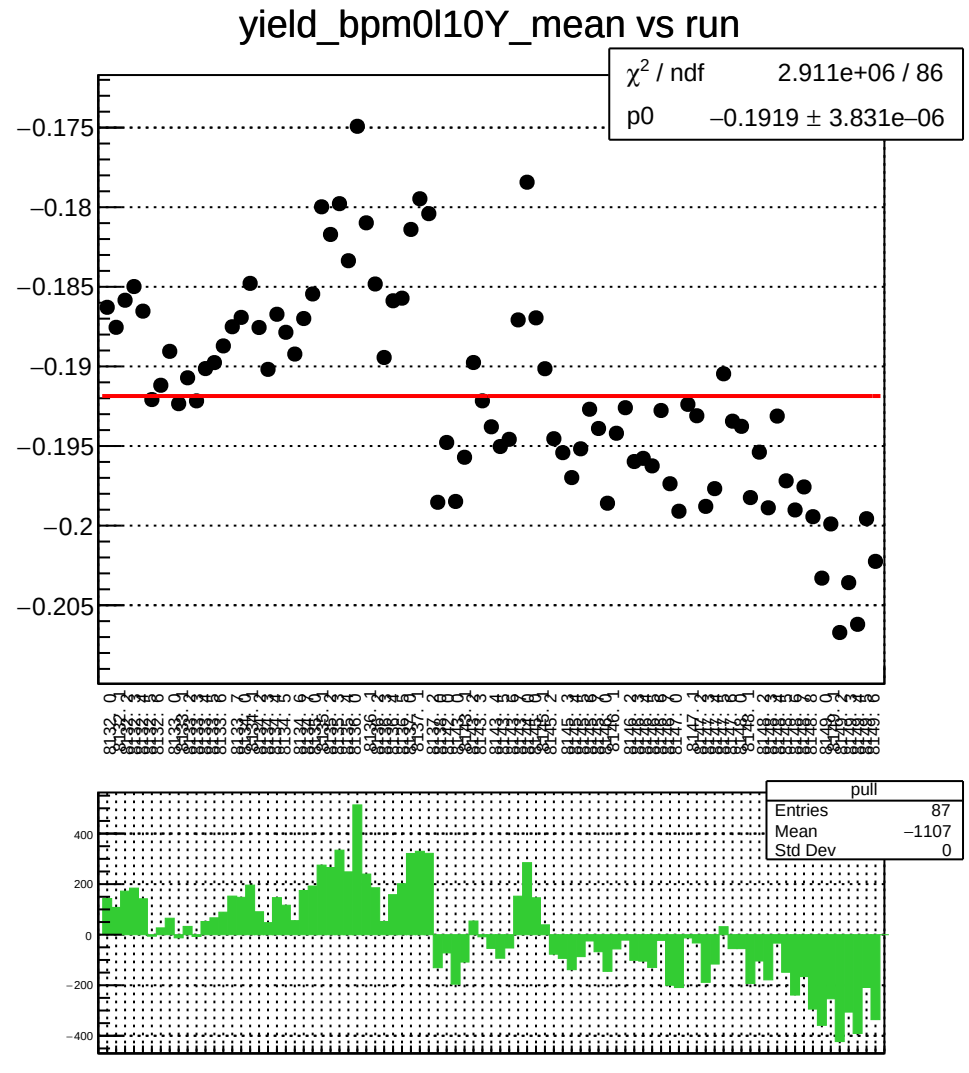

pull1D
Entries 87
Mean 1.373
Std Dev 5.083
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

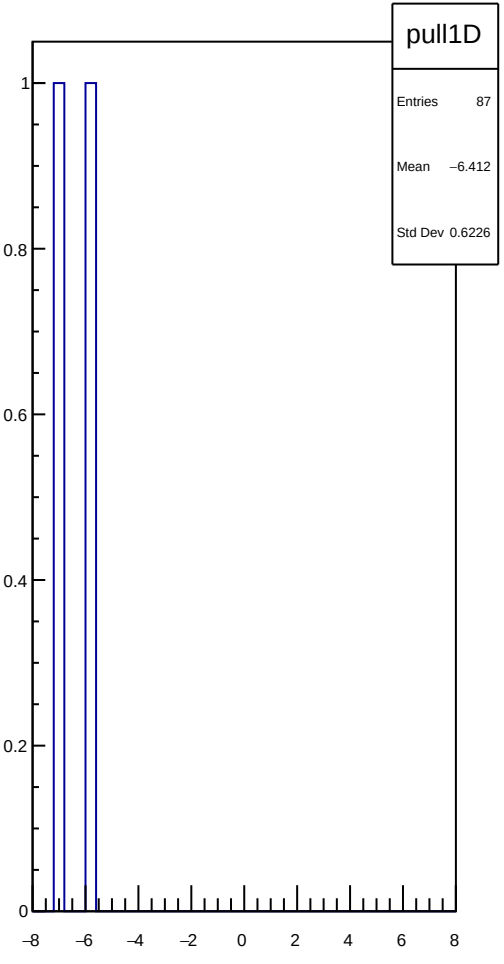

yield_bpm0l09Y_rms vs run
χ² / ndf 1.23e+04 / 86
p0 0.01266 ± 9.691e–06
0.017
0.016
0.015
0.014
0.013
0.012
0.011

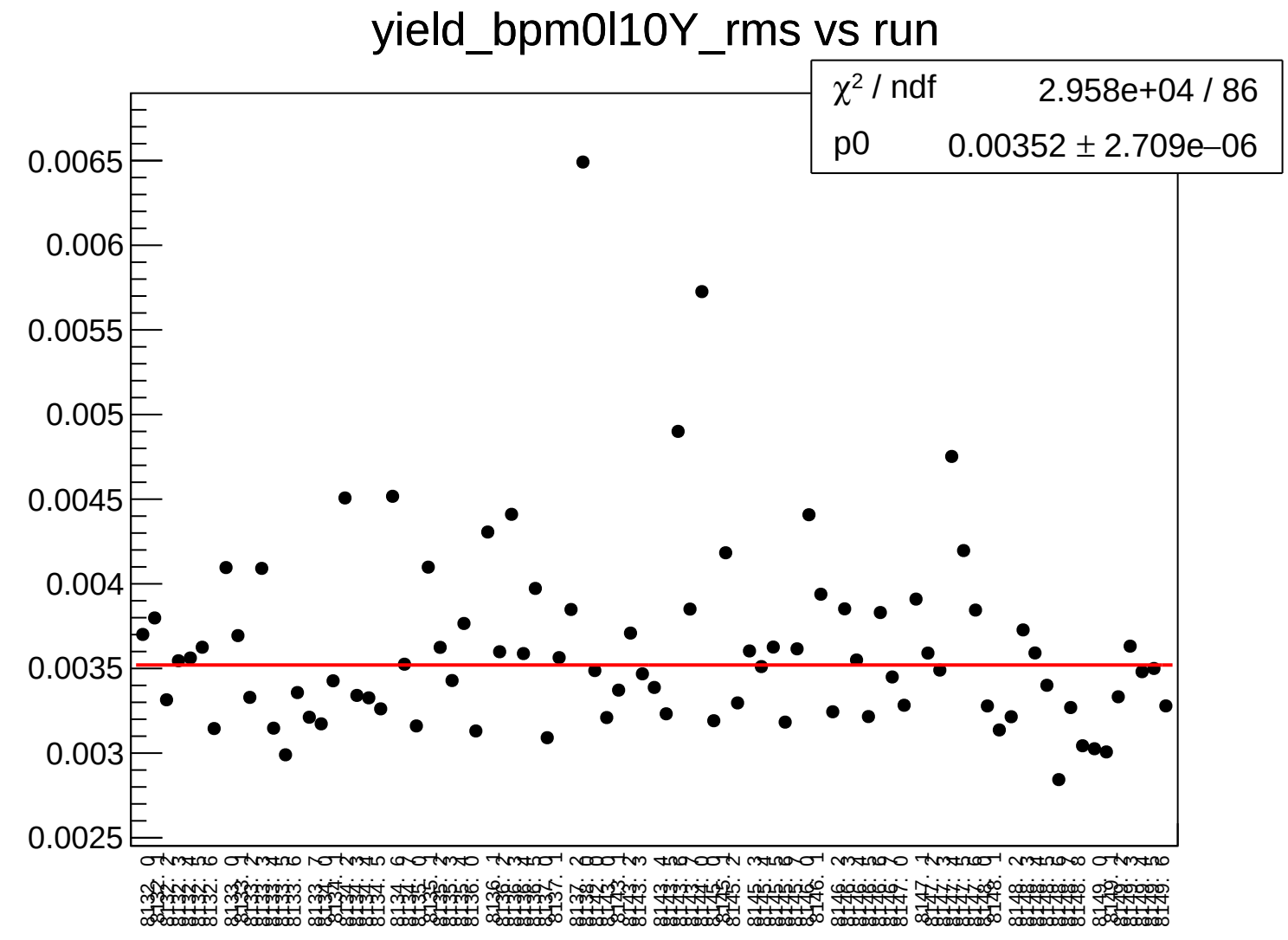

yield_bpm0l10X_mean vs run
χ² / ndf 8.78e+06 / 86
p0 −1.4 ± 1.546e−05
−1.32
−1.34
−1.36
−1.38
−1.4
−1.42
−1.44
−1.46
−1.48
−1.5
pull
Entries 87
Mean −144.6
Std Dev 0
400
200
0
−200
−400
−600

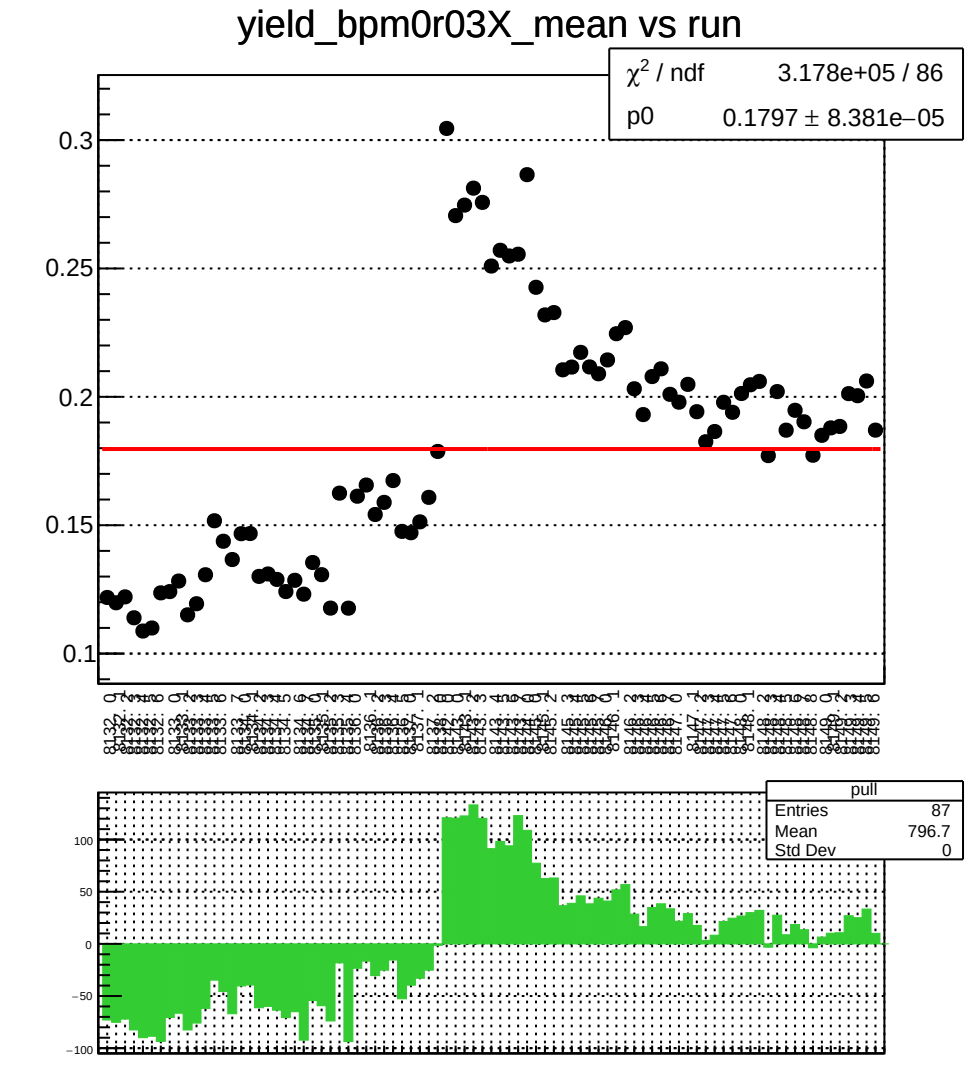

pull1D
Entries 87
Mean 4.383
Std Dev 0.8851
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

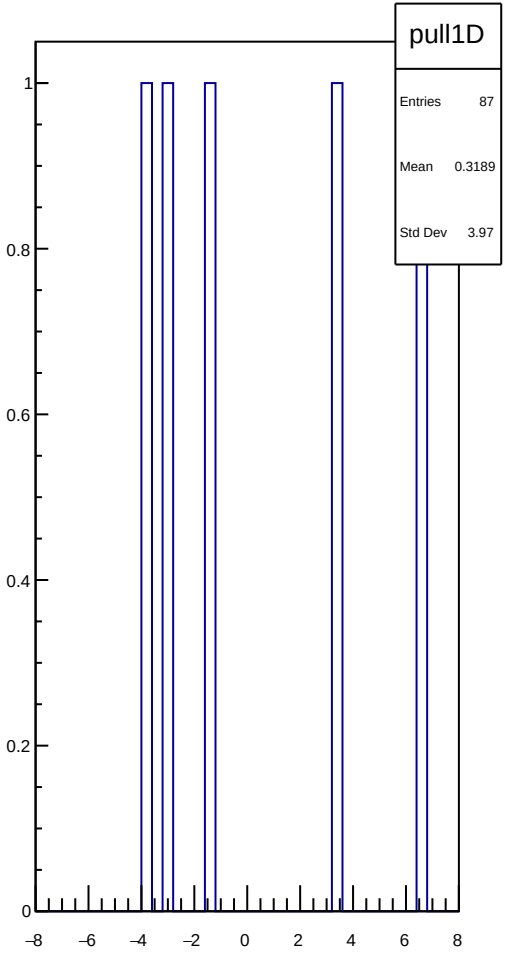

yield_bpm0l10X_rms vs run
χ² / ndf 5.432e+04 / 86
p0 0.01411 ± 1.094e–05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

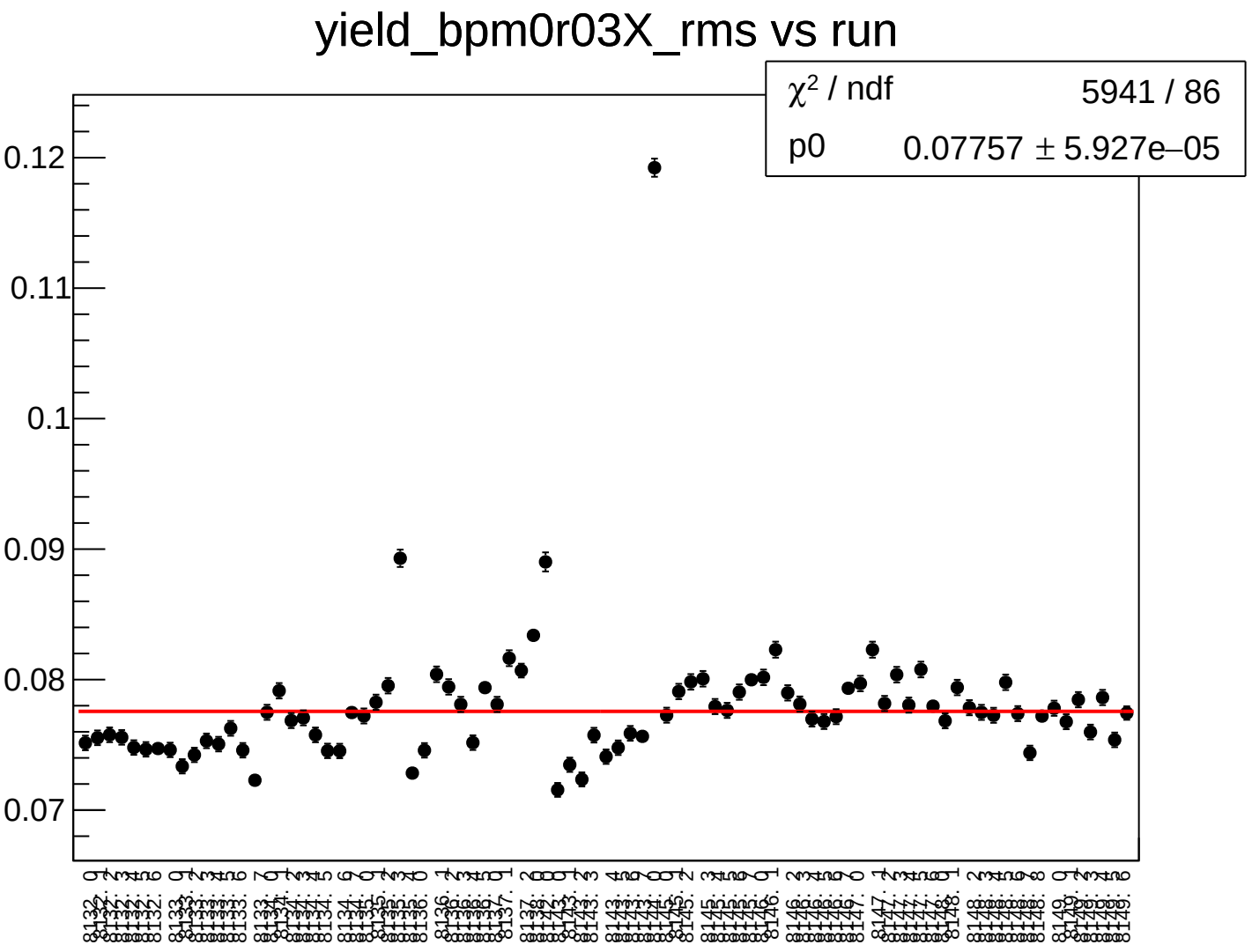

yield_bpm0l10Y_mean vs run
χ² / ndf 2.911e+06 / 86
p0 −0.1919 ± 3.831e−06
−0.175
−0.18
−0.185
−0.19
−0.195
−0.2
−0.205
pull
Entries 87
Mean −1107
Std Dev 0
400
200
0
−200
−400

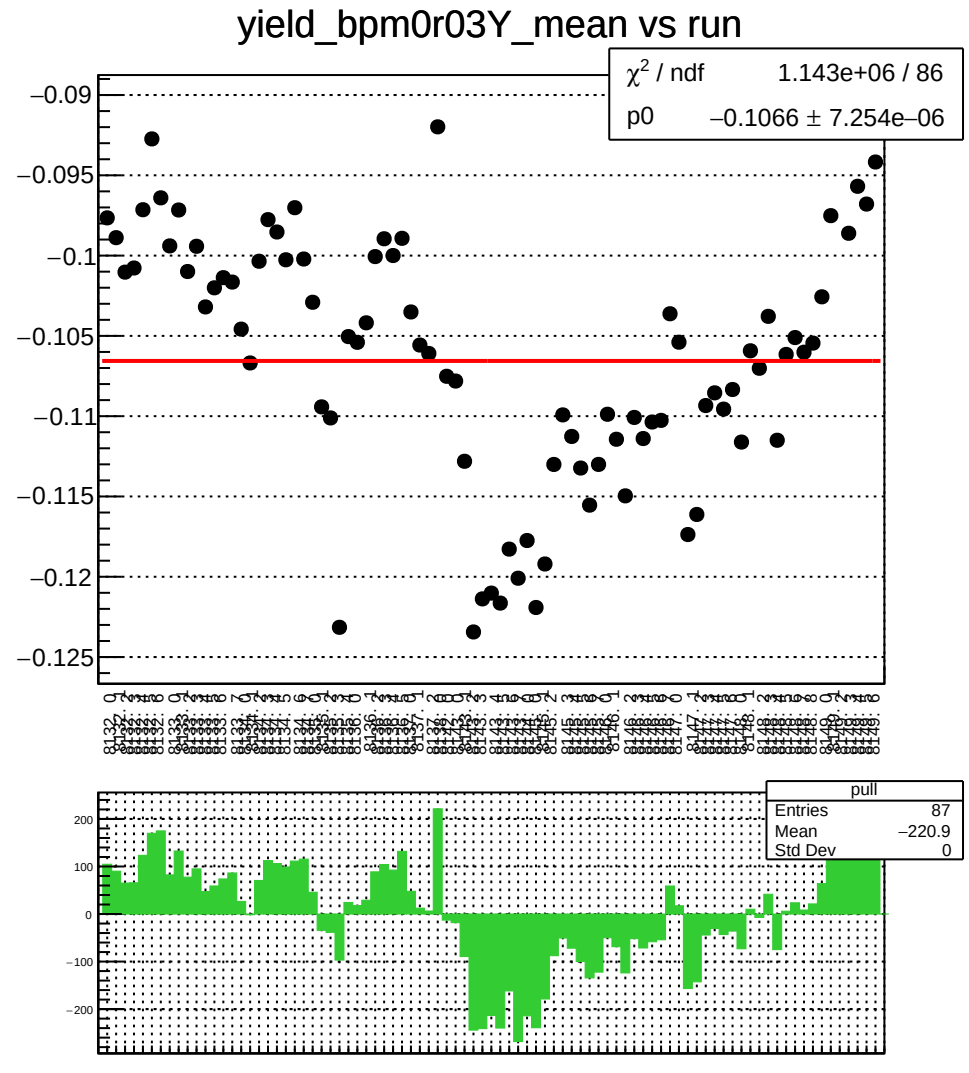

pull1D
Entries 87
Mean −6.412
Std Dev 0.6226
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

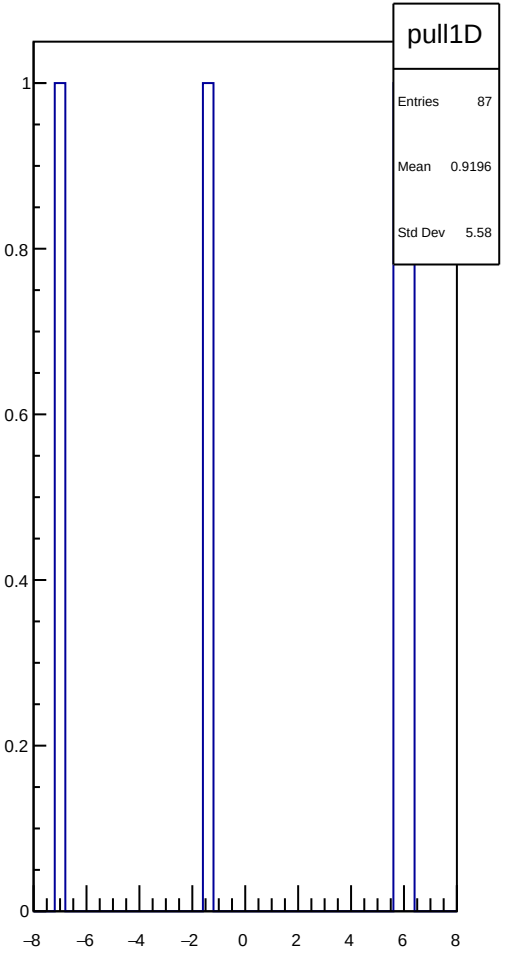

yield_bpm0l10Y_rms vs run
χ² / ndf 2.958e+04 / 86
p0 0.00352 ± 2.709e−06
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025

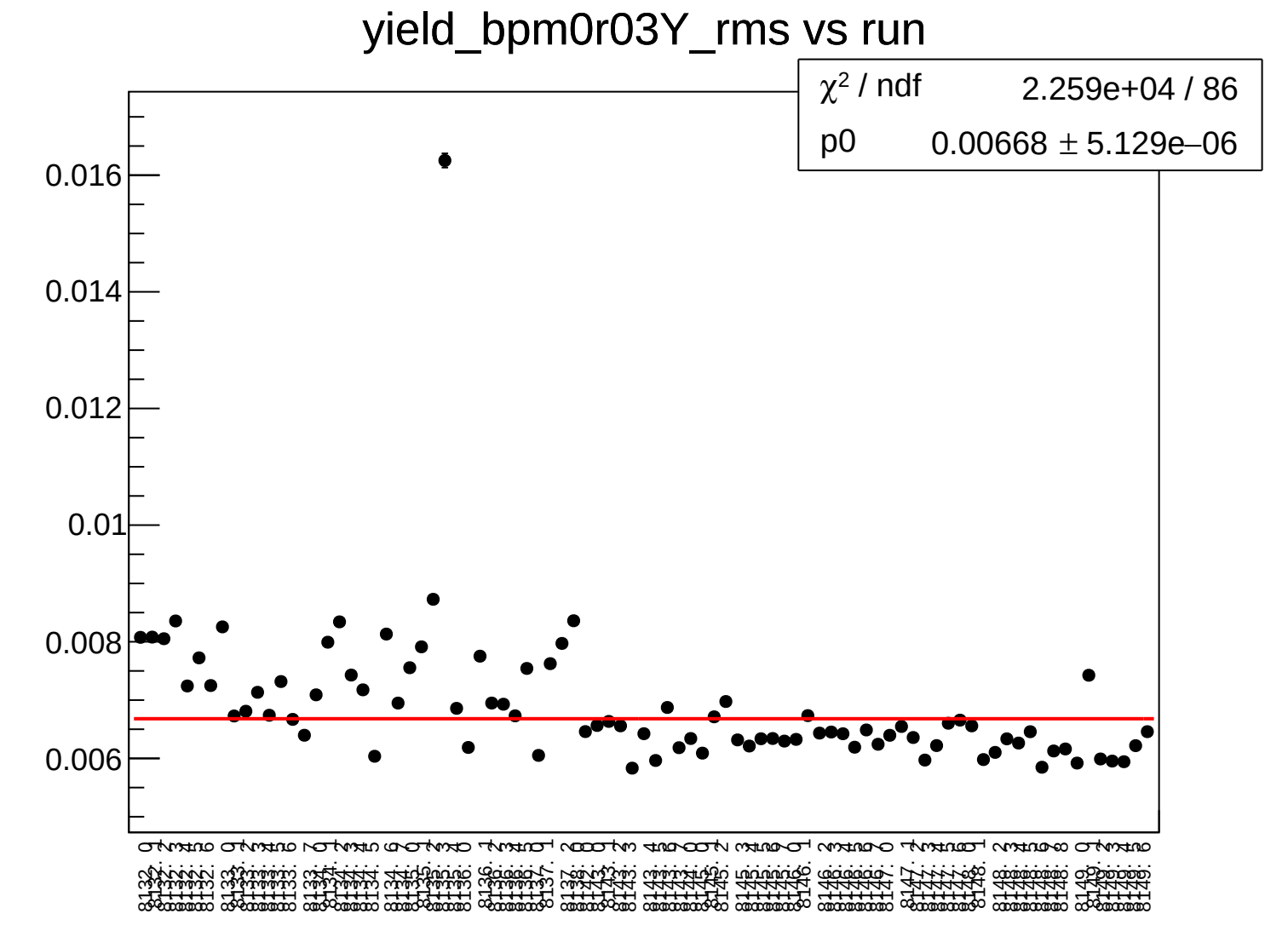

yield_bpm0r03X_mean vs run
χ² / ndf 3.178e+05 / 86
p0 0.1797 ± 8.381e−05
0.3
0.25
0.2
0.15
0.1
pull
Entries 87
Mean 796.7
Std Dev 0
100
50
0
−50
−100

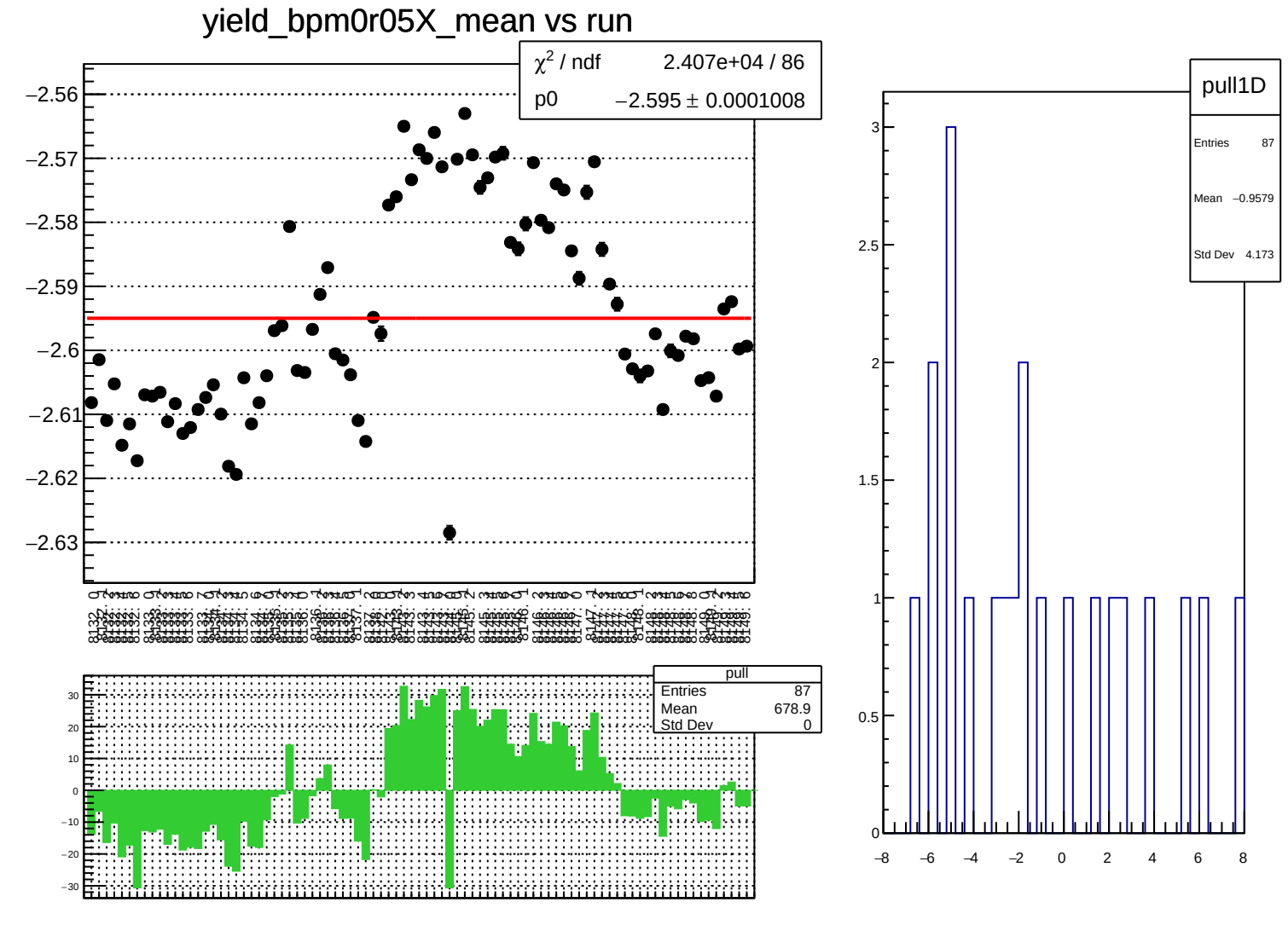

pull1D
Entries 87
Mean 0.3189
Std Dev 3.97
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

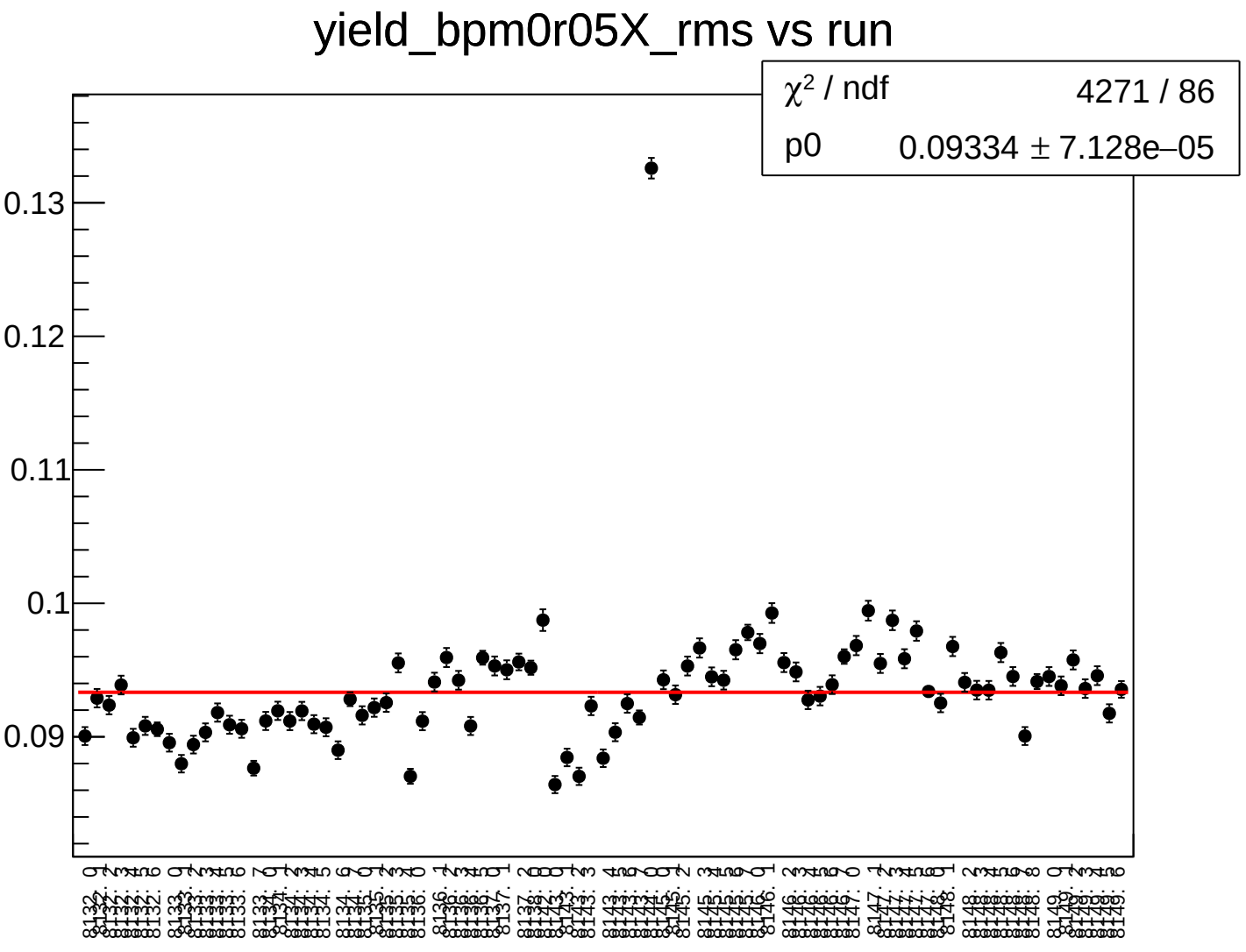

yield_bpm0r03X_rms vs run
χ² / ndf 5941 / 86
p0 0.07757 ± 5.927e–05
0.12
0.11
0.1
0.09
0.08
0.07

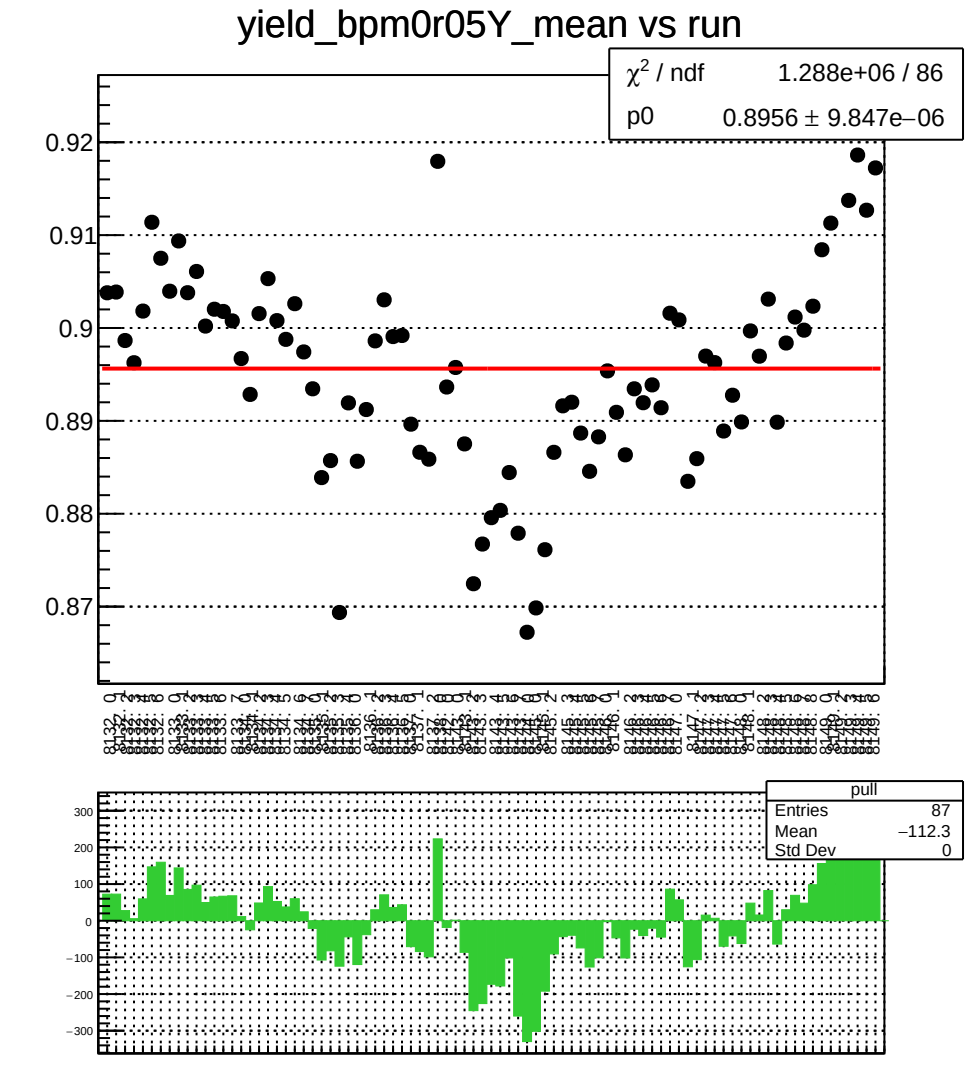

yield_bpm0r03Y_mean vs run
χ² / ndf 1.143e+06 / 86
p0 −0.1066 ± 7.254e−06
−0.09
−0.095
−0.1
−0.105
−0.11
−0.115
−0.12
−0.125
pull
Entries 87
Mean −220.9
Std Dev 0
200
100
0
−100
−200

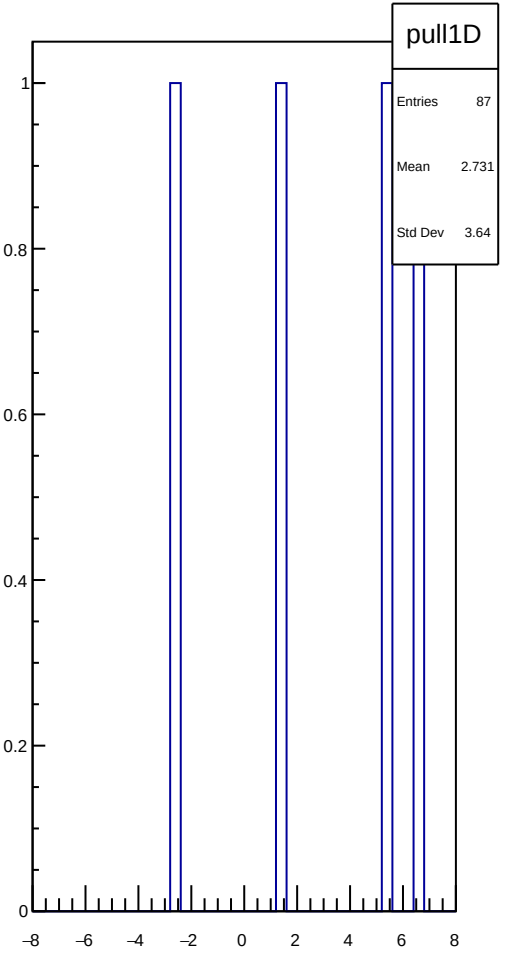

pull1D
Entries 87
Mean 0.9196
Std Dev 5.58
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

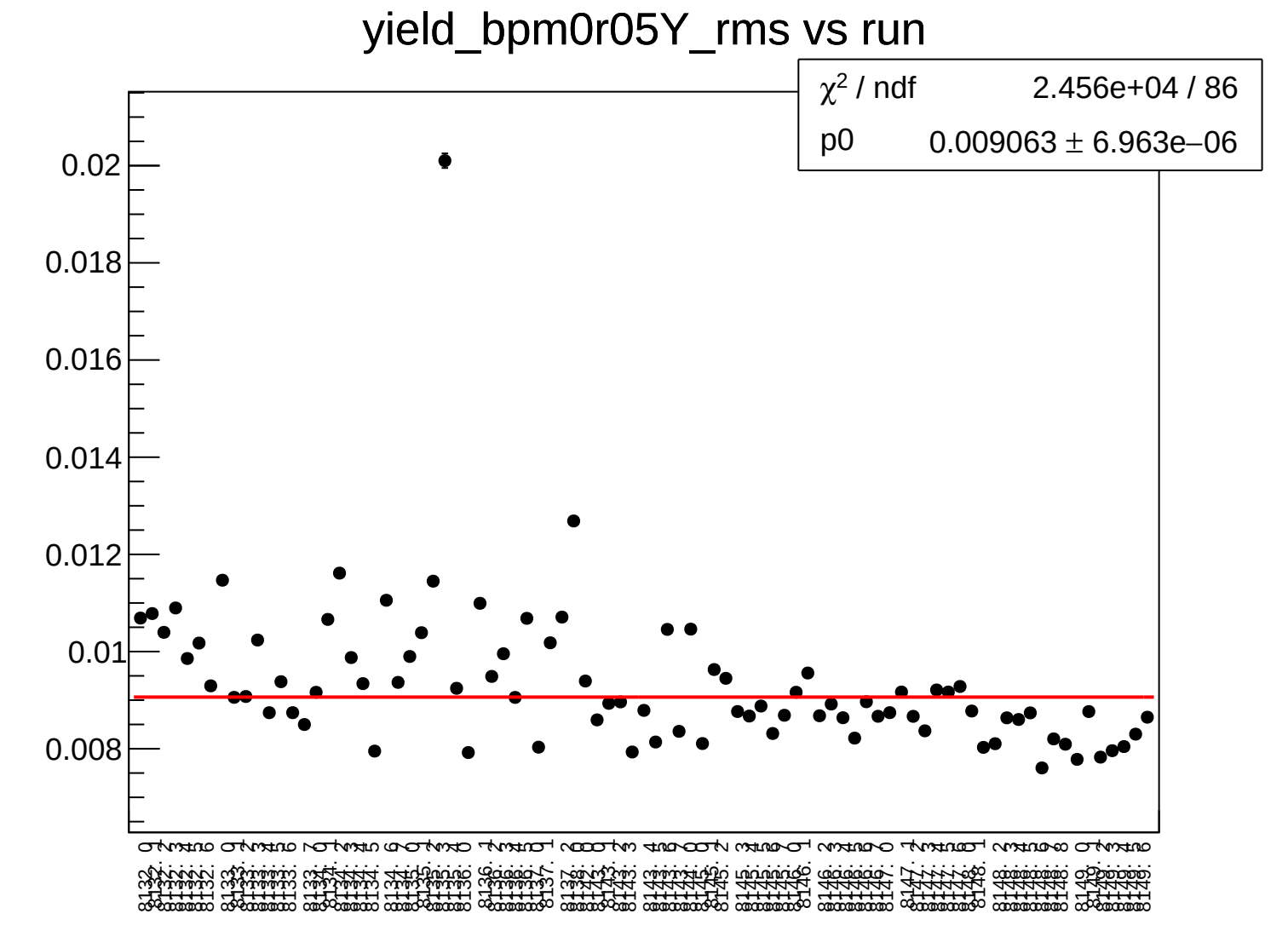

yield_bpm0r03Y_rms vs run
χ² / ndf 2.259e+04 / 86
p0 0.00668 ± 5.129e−06
0.016
0.014
0.012
0.01
0.008
0.006

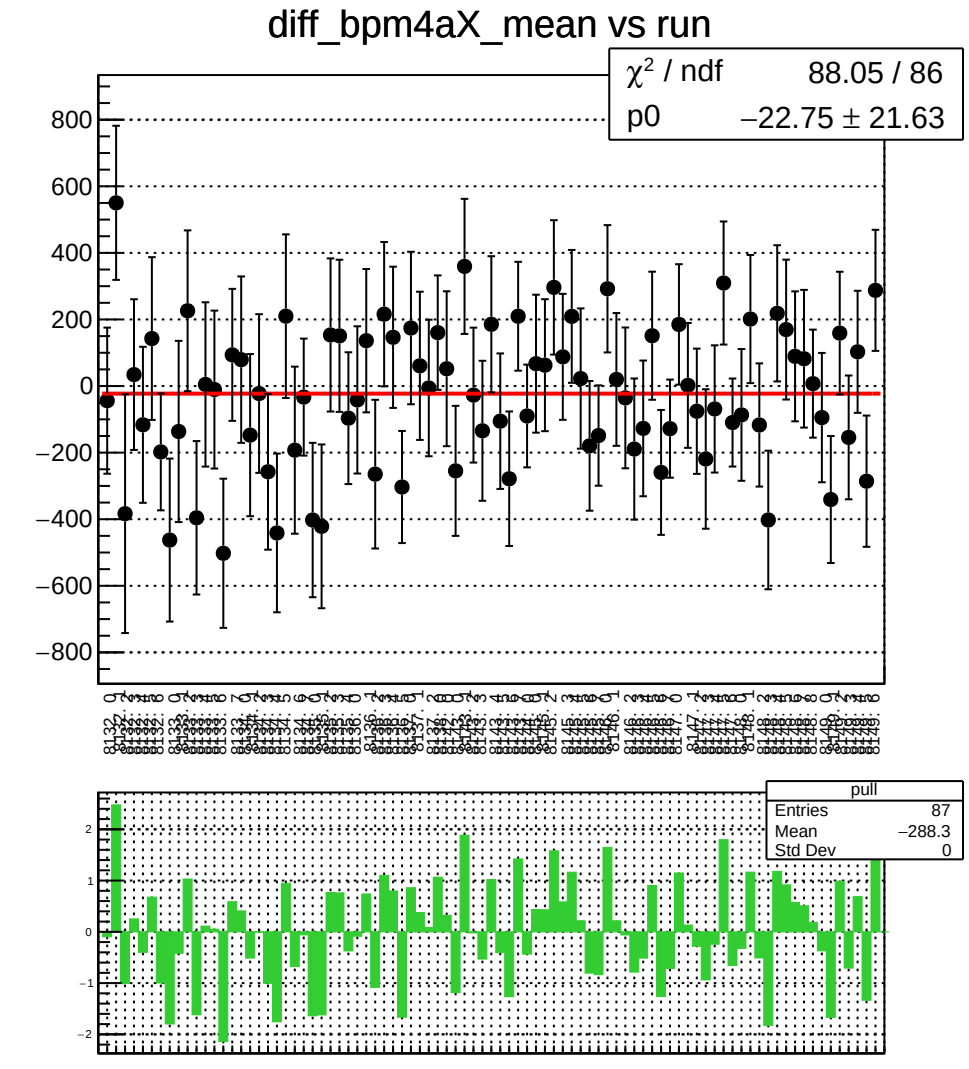

yield_bpm0r05X_mean vs run
χ² / ndf 2.407e+04 / 86
p0 −2.595 ± 0.0001008
−2.56
−2.57
−2.58
−2.59
−2.6
−2.61
−2.62
−2.63
pull
Entries 87
Mean 678.9
Std Dev 0
30
20
10
0
−10
−20
−30
pull1D
Entries 87
Mean −0.9579
Std Dev 4.173
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

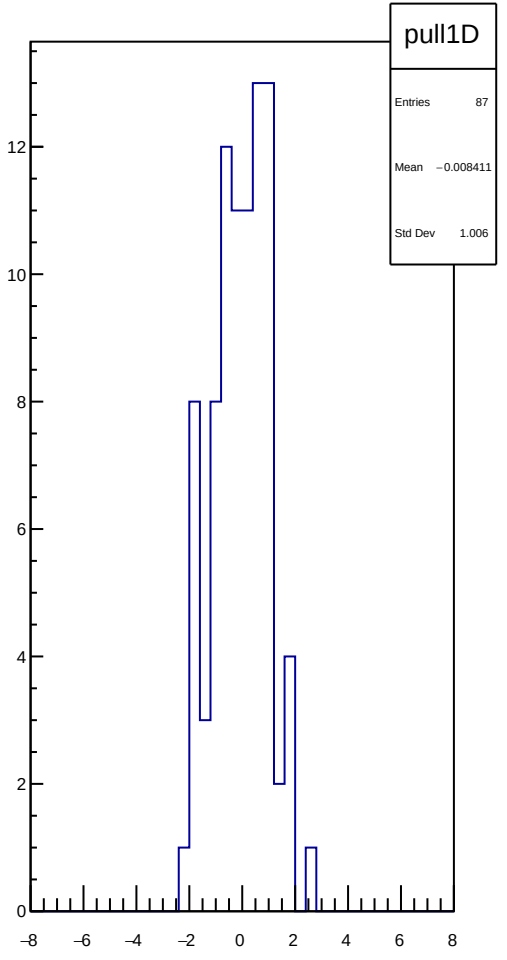

yield_bpm0r05X_rms vs run
χ² / ndf 4271 / 86
p0 0.09334 ± 7.128e−05
0.13
0.12
0.11
0.1
0.09

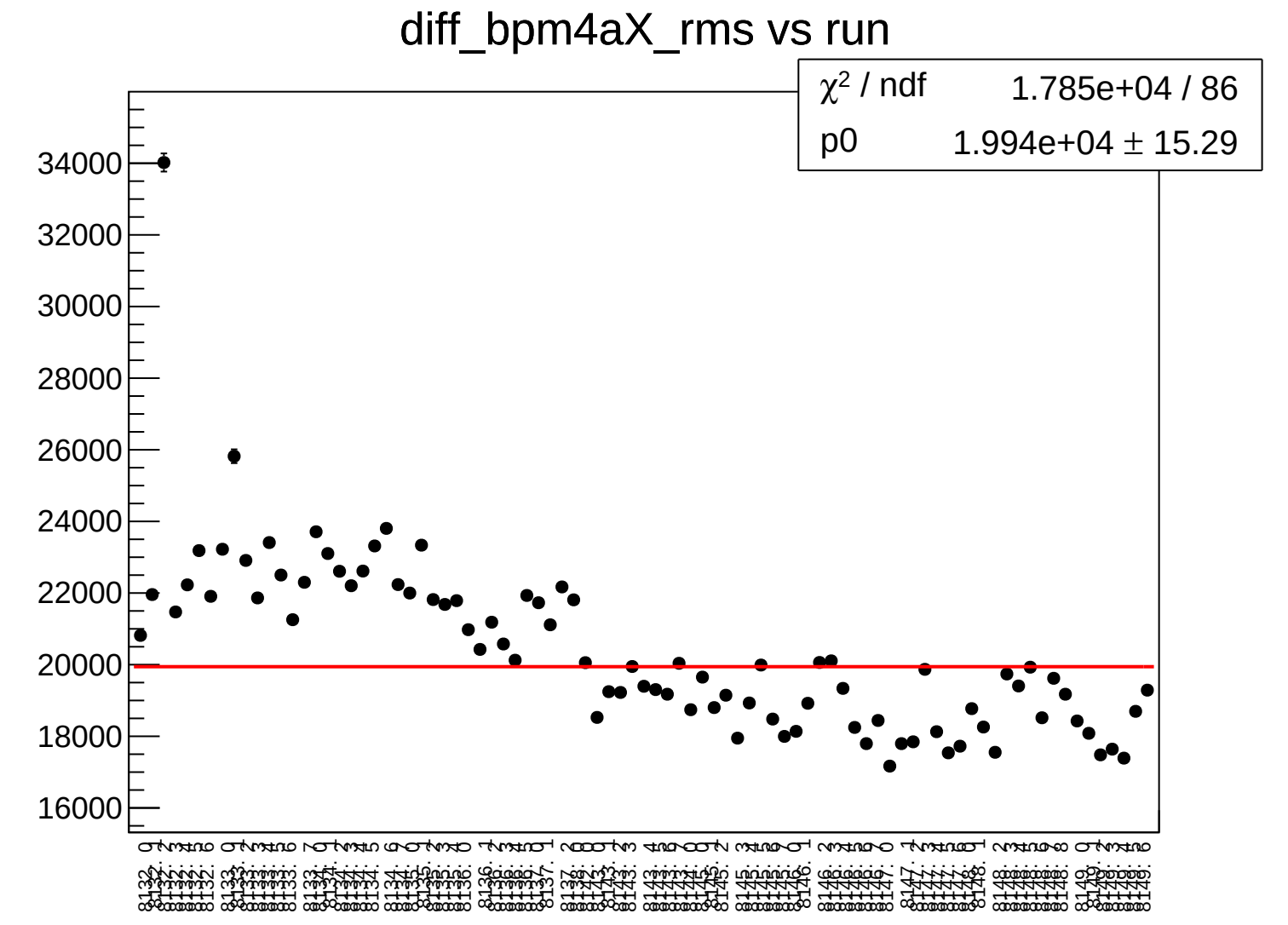

yield_bpm0r05Y_mean vs run
χ² / ndf 1.288e+06 / 86
p0 0.8956 ± 9.847e−06
0.92
0.91
0.9
0.89
0.88
0.87
pull
Entries 87
Mean −112.3
Std Dev 0
300
200
100
0
−100
−200
−300

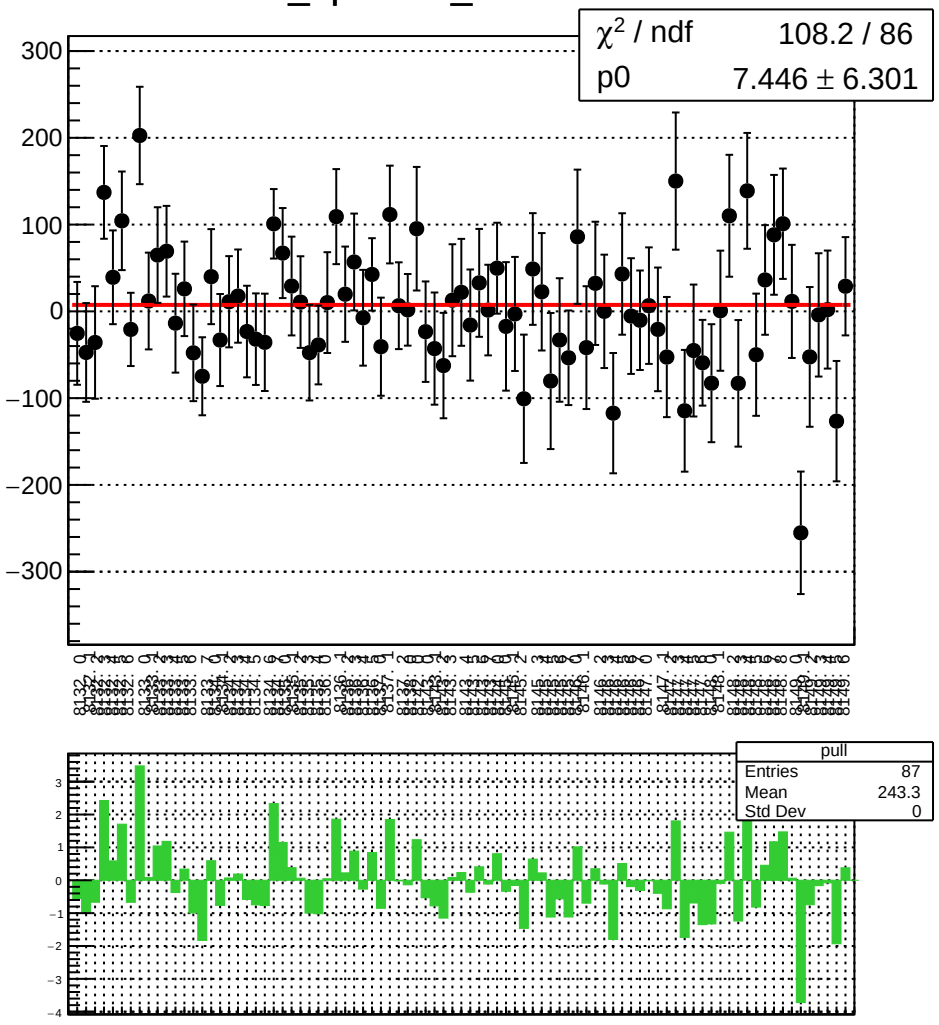

pull1D
Entries 87
Mean 2.731
Std Dev 3.64
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

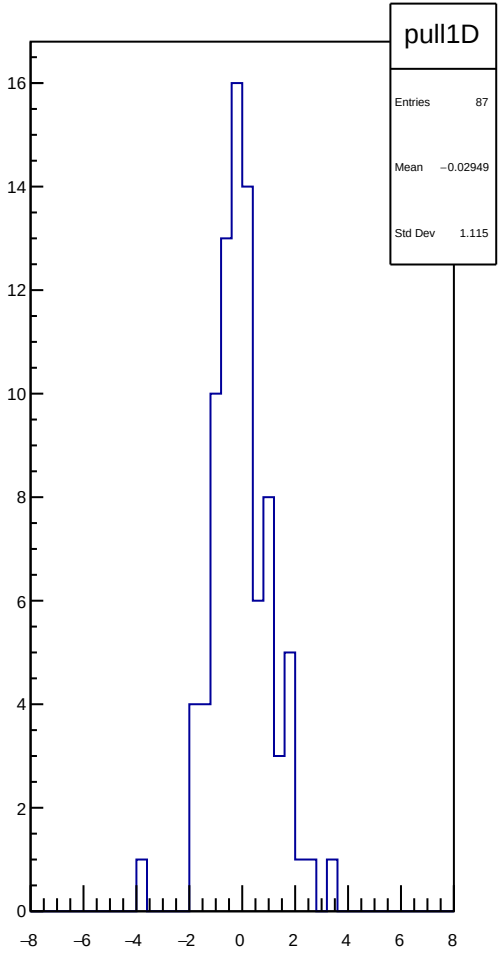

yield_bpm0r05Y_rms vs run
χ² / ndf 2.456e+04 / 86
p0 0.009063 ± 6.963e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008

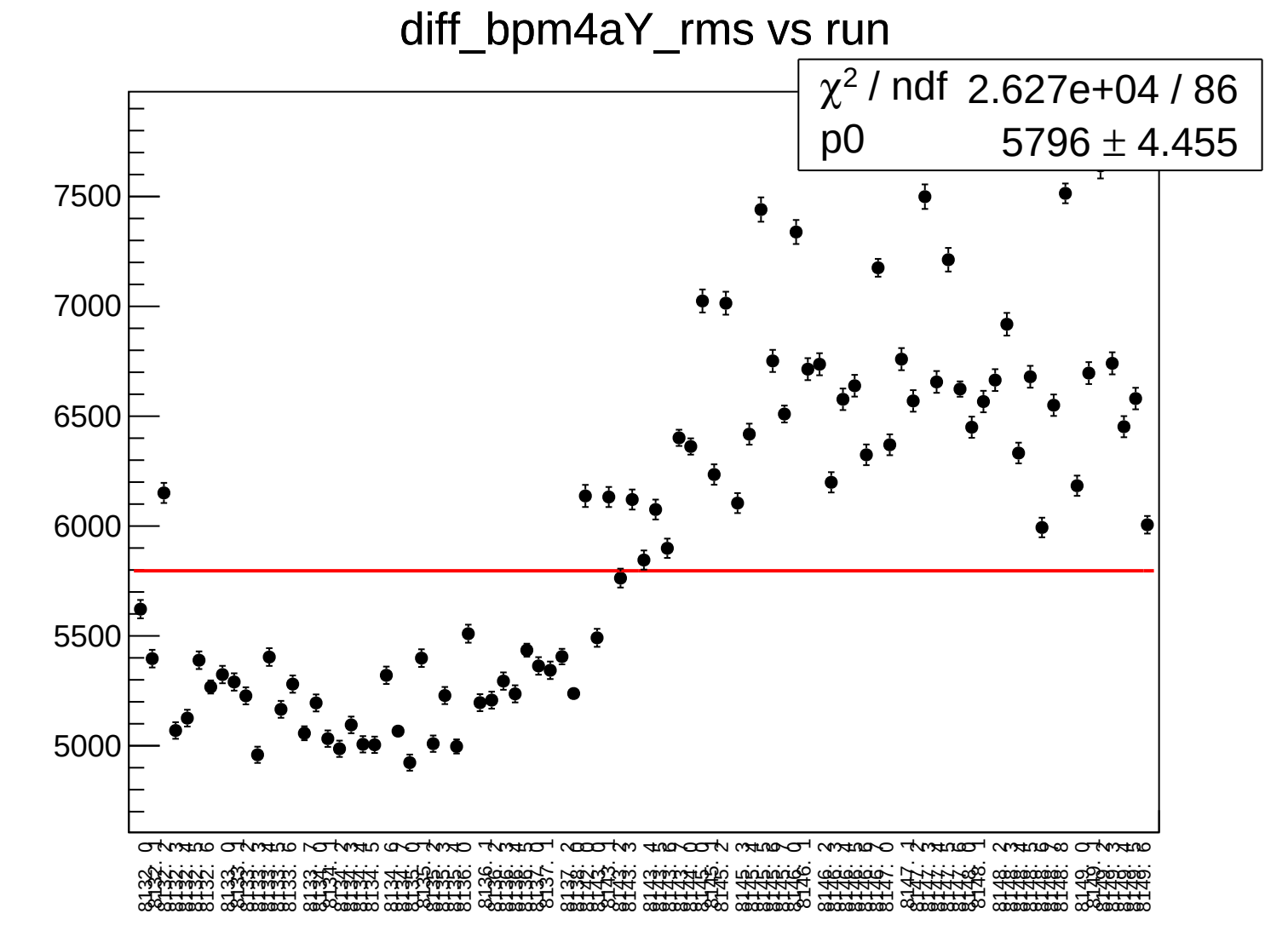

diff_bpm4aX_mean vs run
χ² / ndf 88.05 / 86
p0 −22.75 ± 21.63
pull
Entries 87
Mean −288.3
Std Dev 0

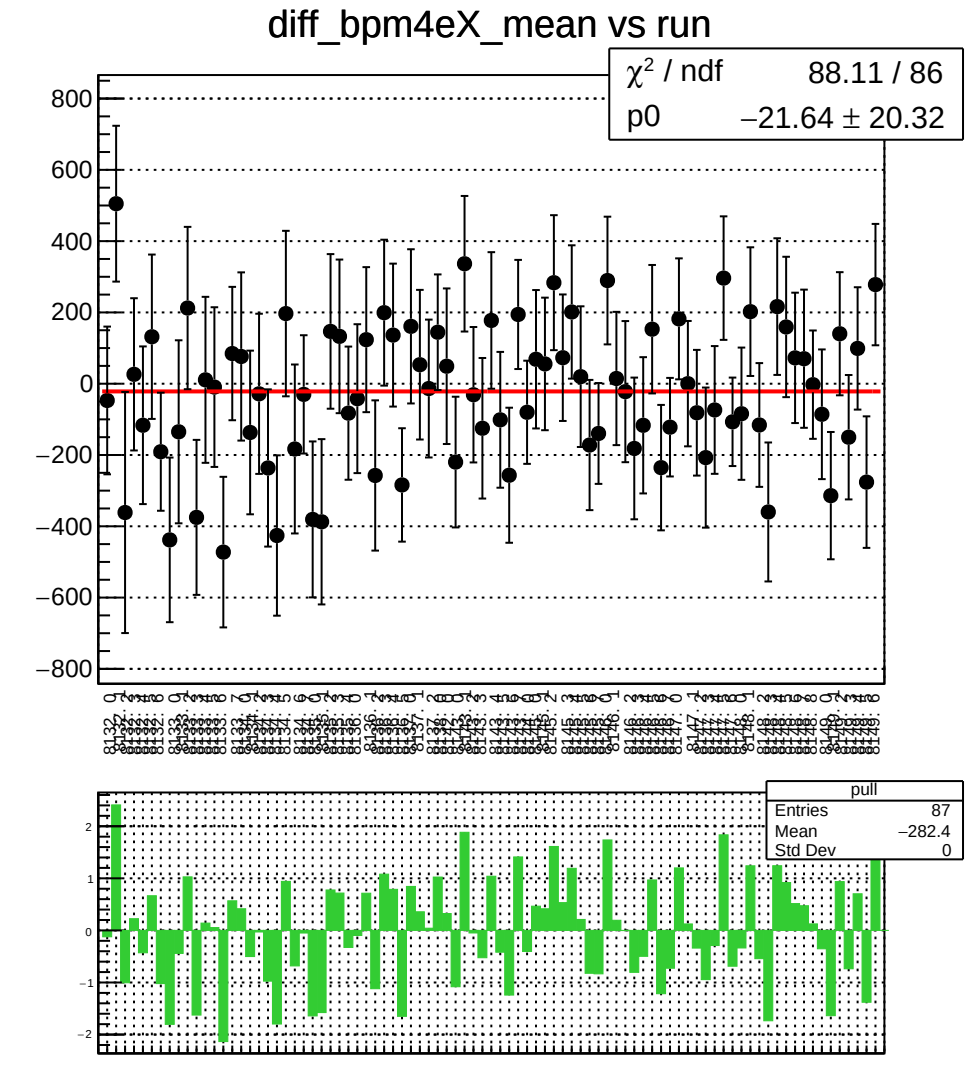

pull1D
Entries 87
Mean −0.008411
Std Dev 1.006

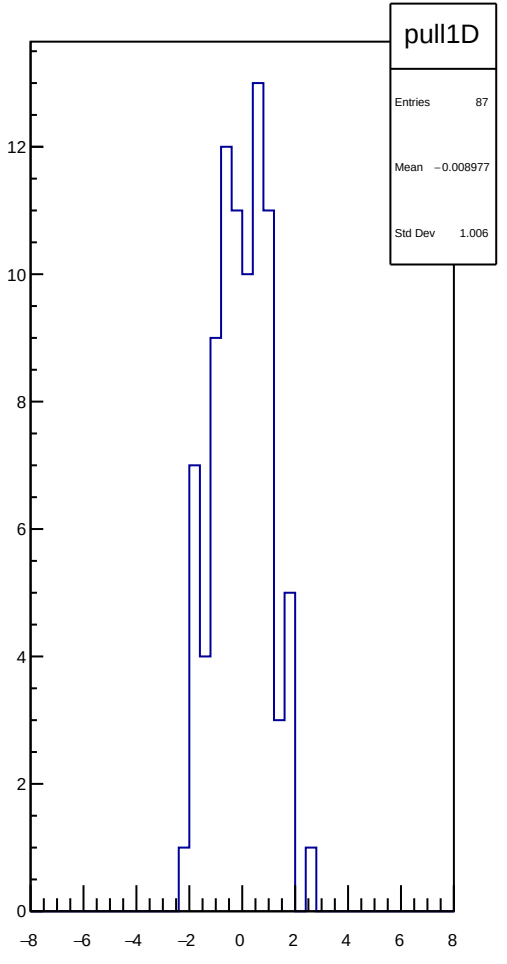

diff_bpm4aX_rms vs run
χ² / ndf 1.785e+04 / 86
p0 1.994e+04 ± 15.29
34000
32000
30000
28000
26000
24000
22000
20000
18000
16000


diff_bpm4aY_mean vs run
χ² / ndf 108.2 / 86
p0 7.446 ± 6.301
pull
Entries 87
Mean 243.3
Std Dev 0

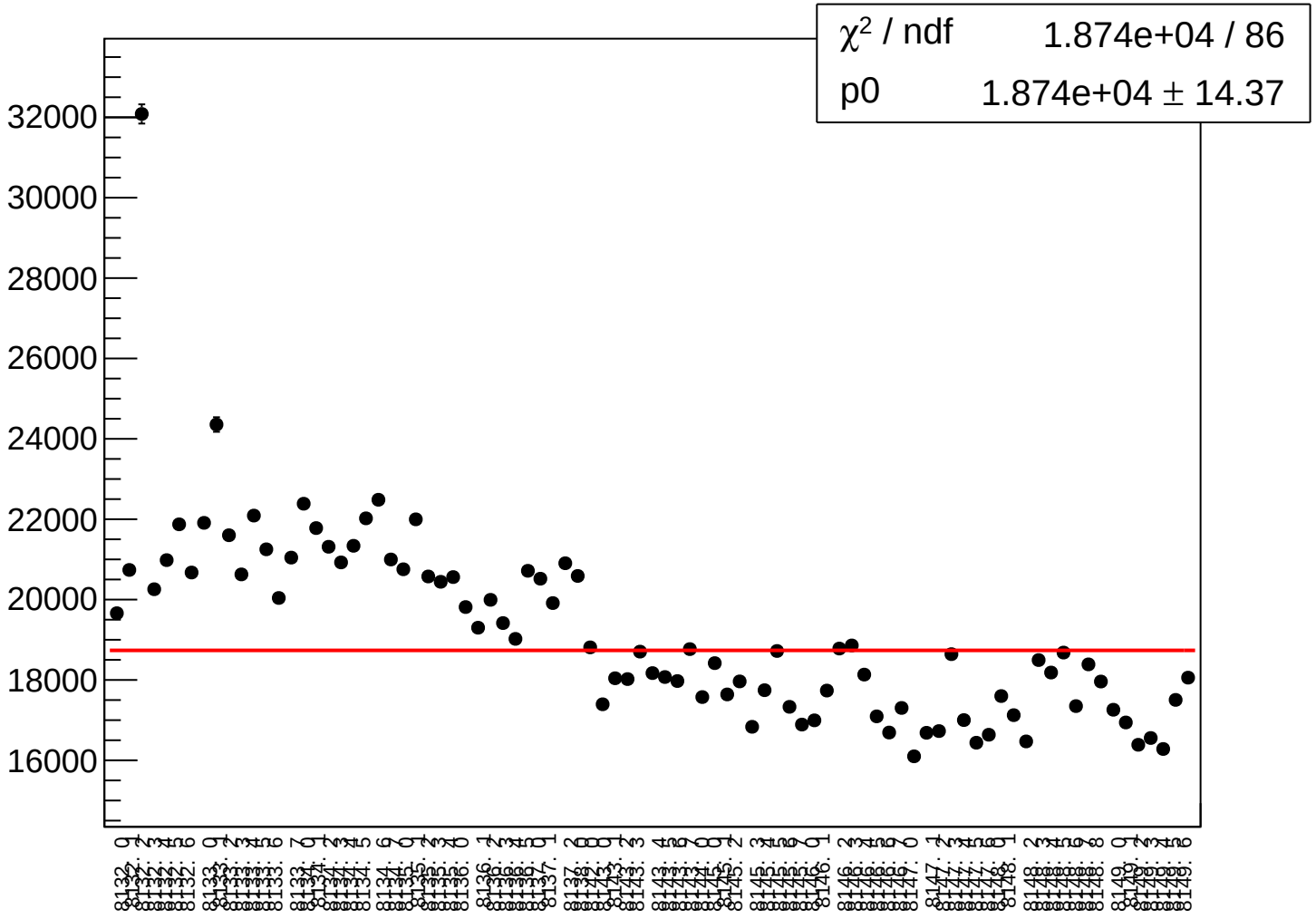

pull1D
Entries 87
Mean −0.02949
Std Dev 1.115

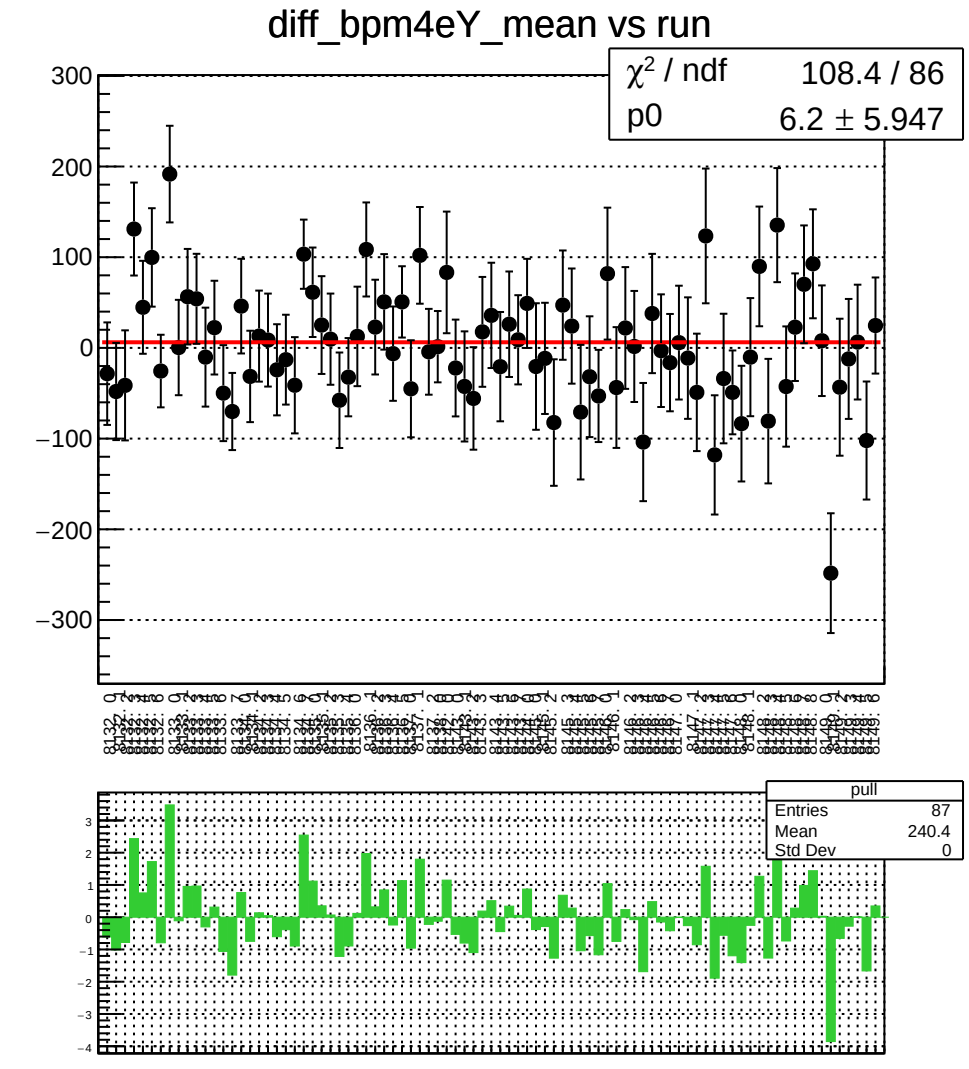

diff_bpm4aY_rms vs run
χ^2 / ndf 2.627e+04 / 86
p0 5796 ± 4.455
7500
7000
6500
6000
5500
5000

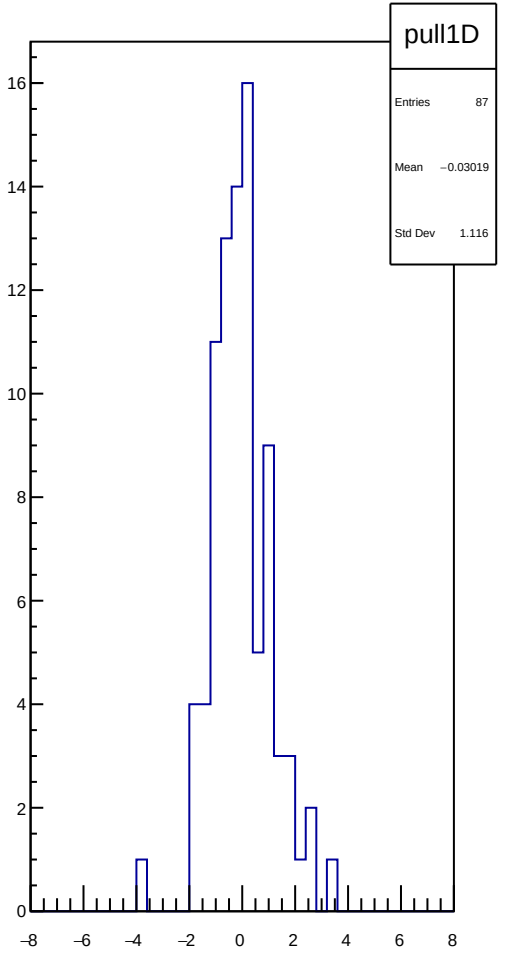

diff_bpm4eX_mean vs run
χ² / ndf 88.11 / 86
p0 −21.64 ± 20.32
pull
Entries 87
Mean −282.4
Std Dev 0

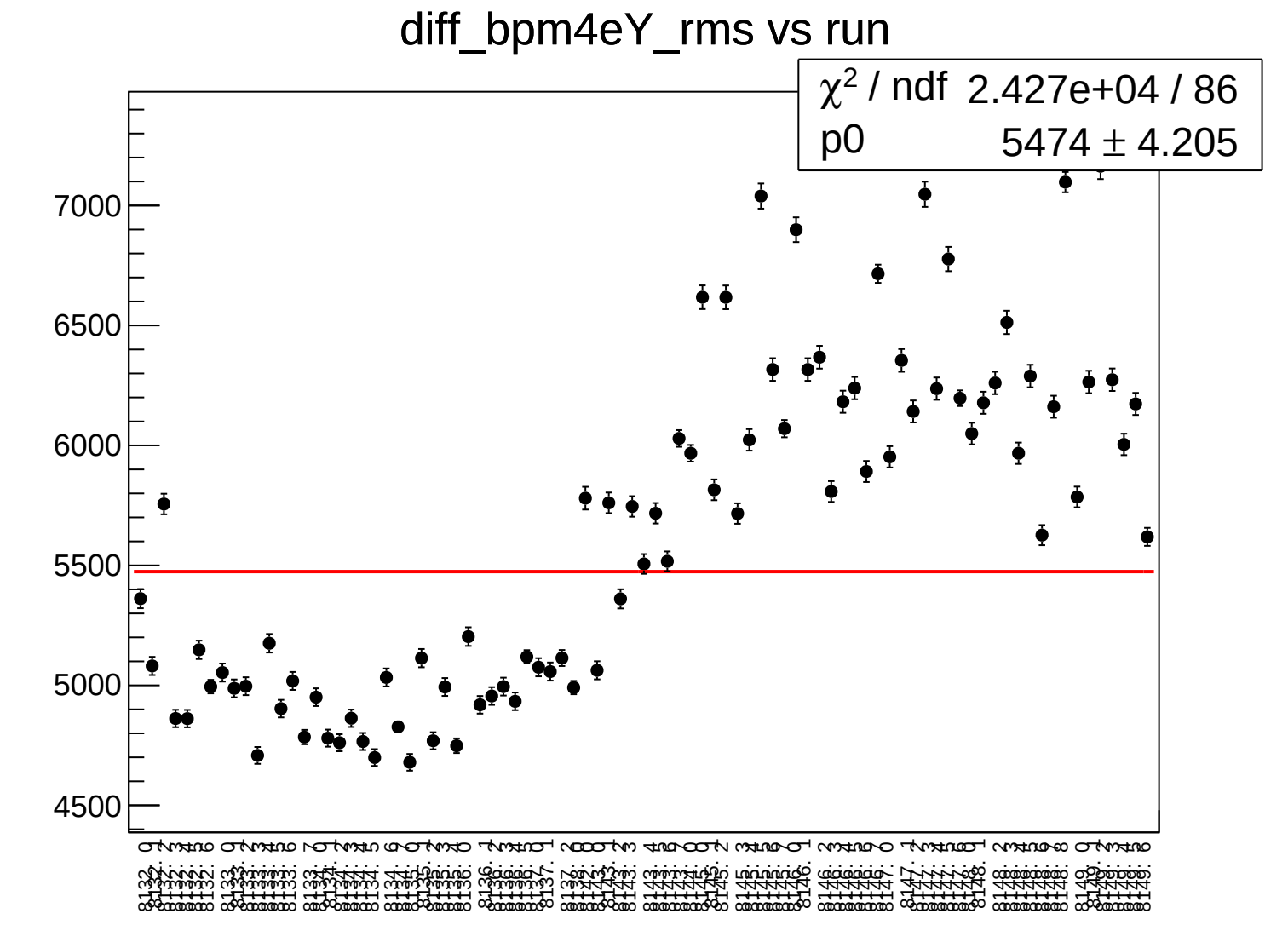

pull1D
Entries 87
Mean −0.008977
Std Dev 1.006

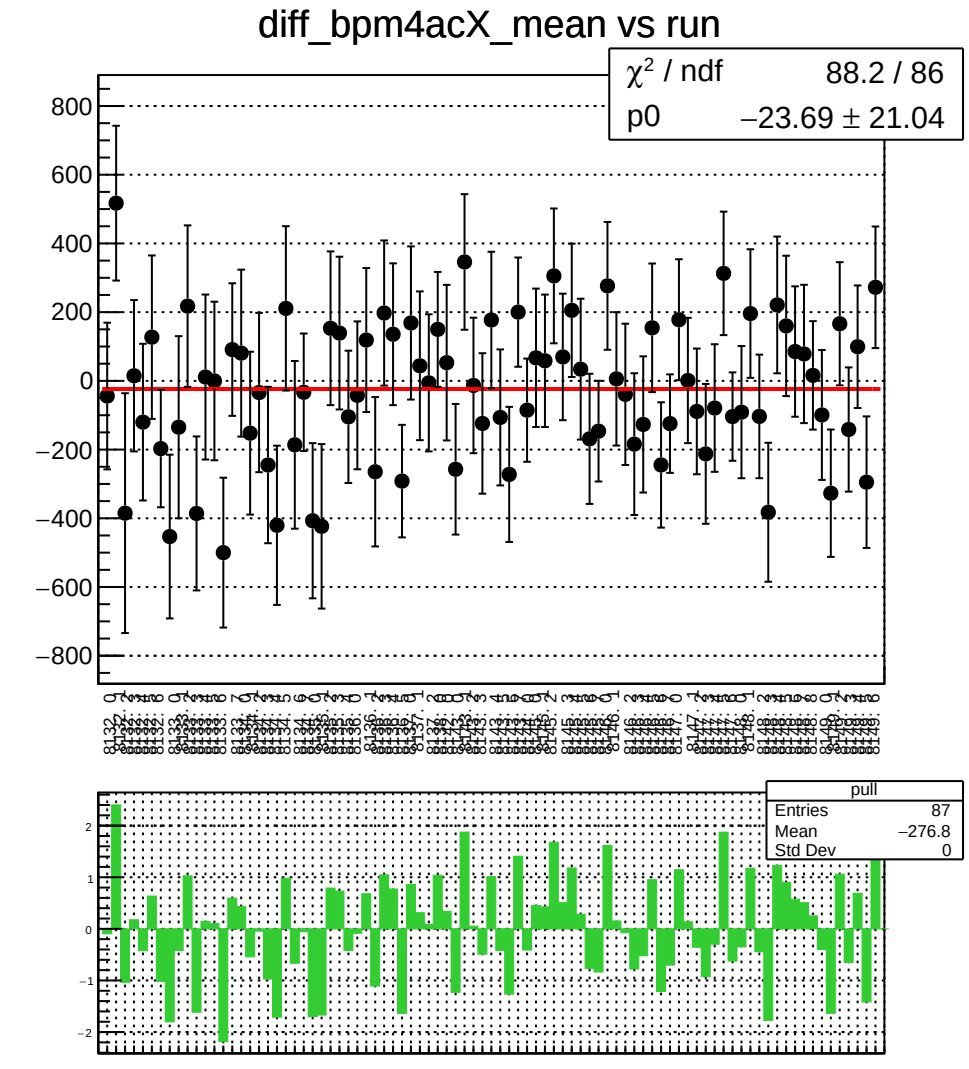
diff_bpm4eX_rms vs run

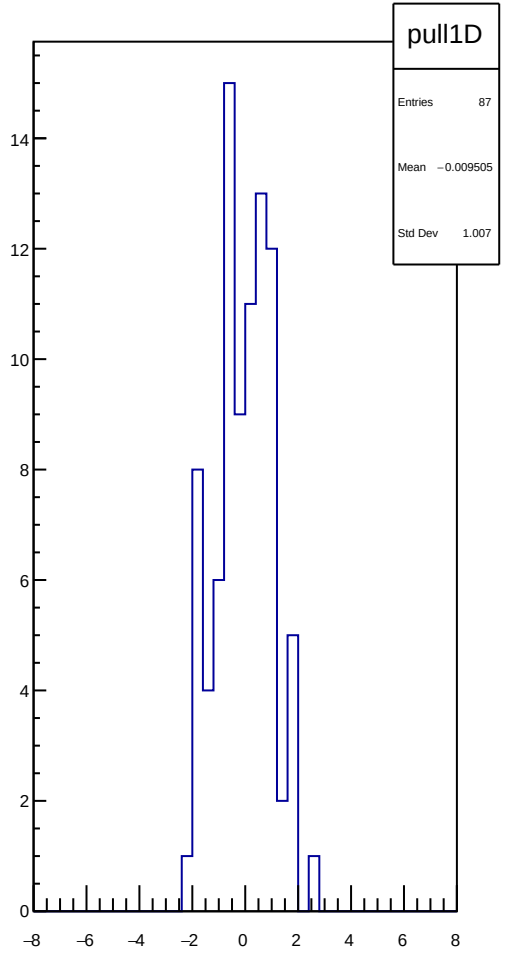


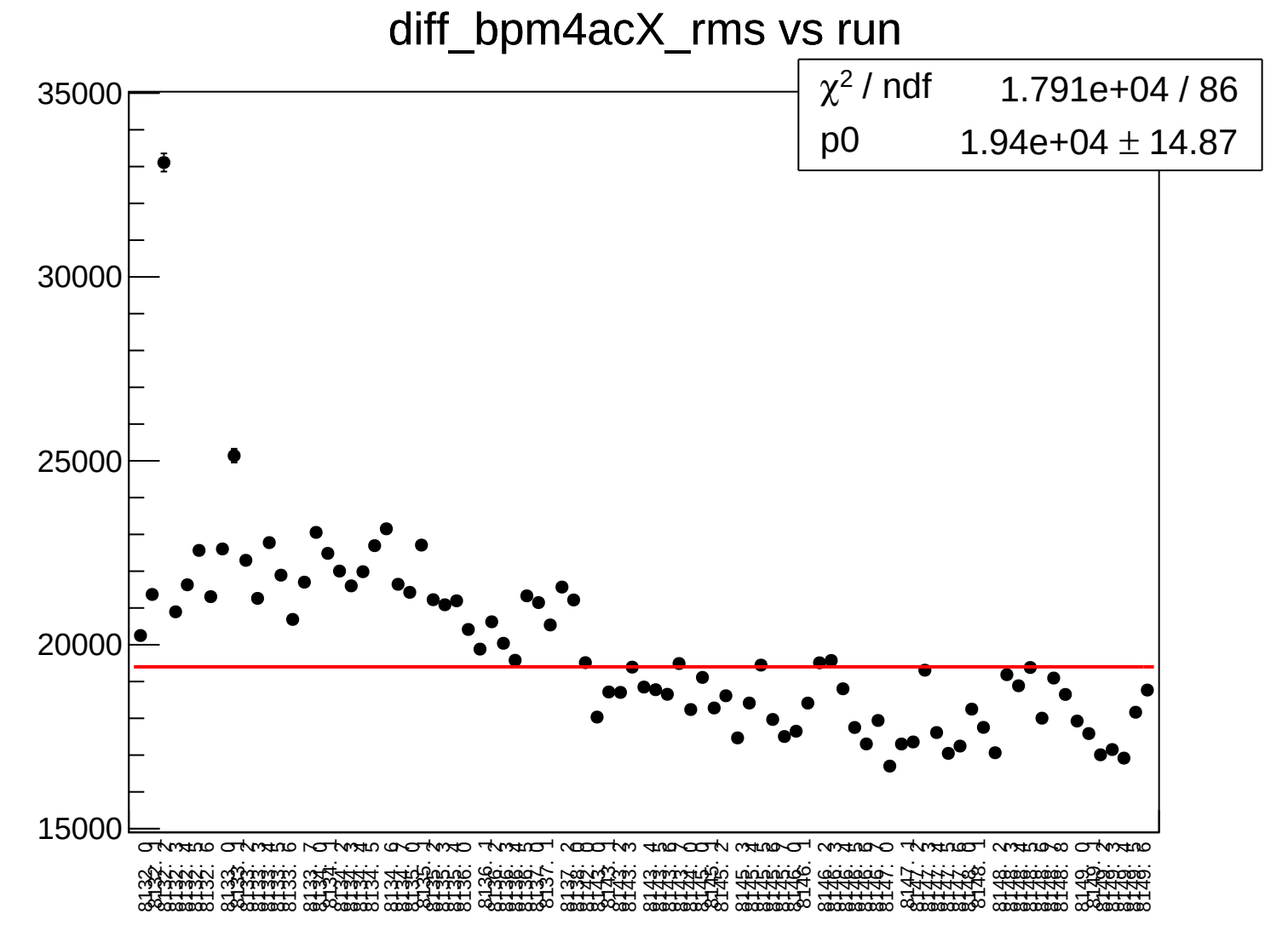

diff_bpm4eY_mean vs run
χ² / ndf 108.4 / 86
p0 6.2 ± 5.947
pull
Entries 87
Mean 240.4
Std Dev 0

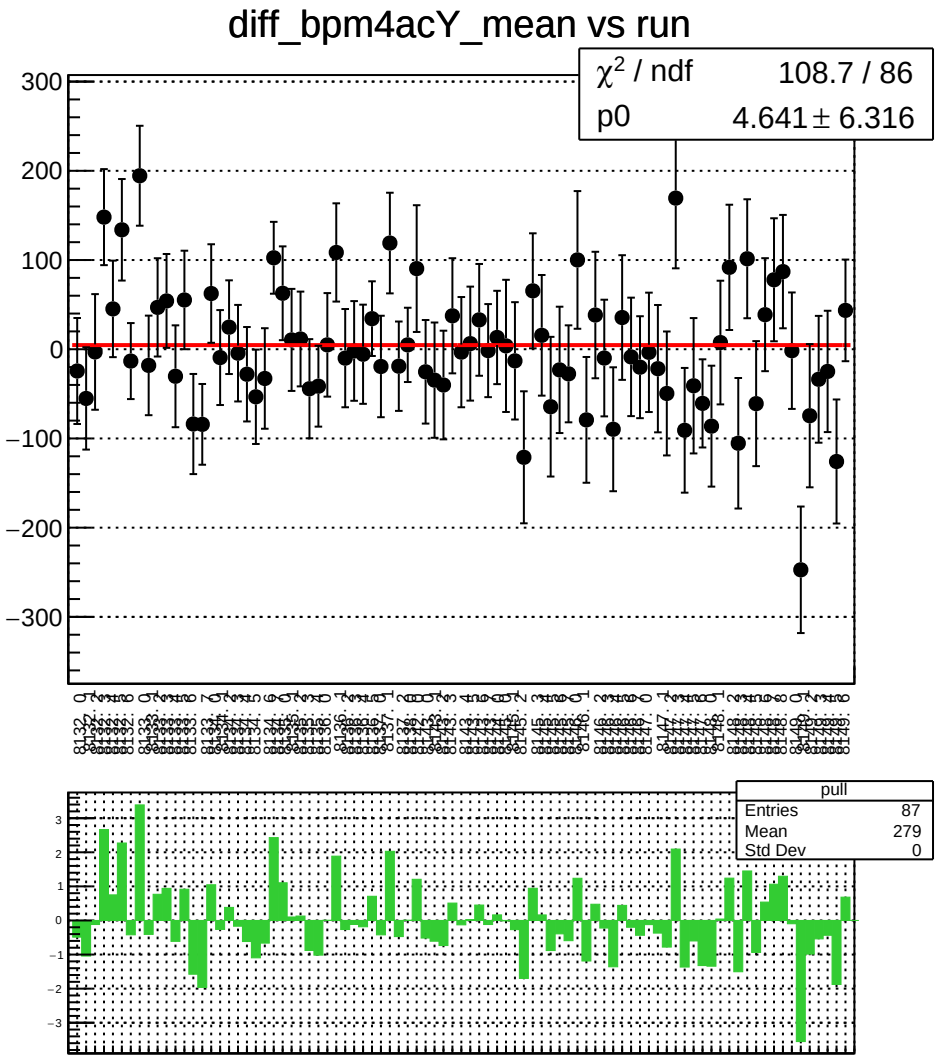

pull1D
Entries 87
Mean −0.03019
Std Dev 1.116

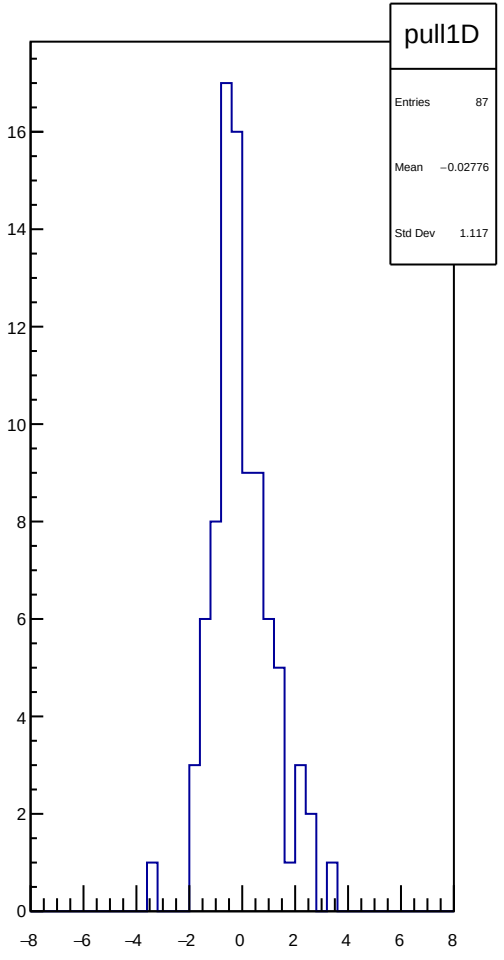

diff_bpm4eY_rms vs run
χ² / ndf 2.427e+04 / 86
p0 5474 ± 4.205
7000
6500
6000
5500
5000
4500

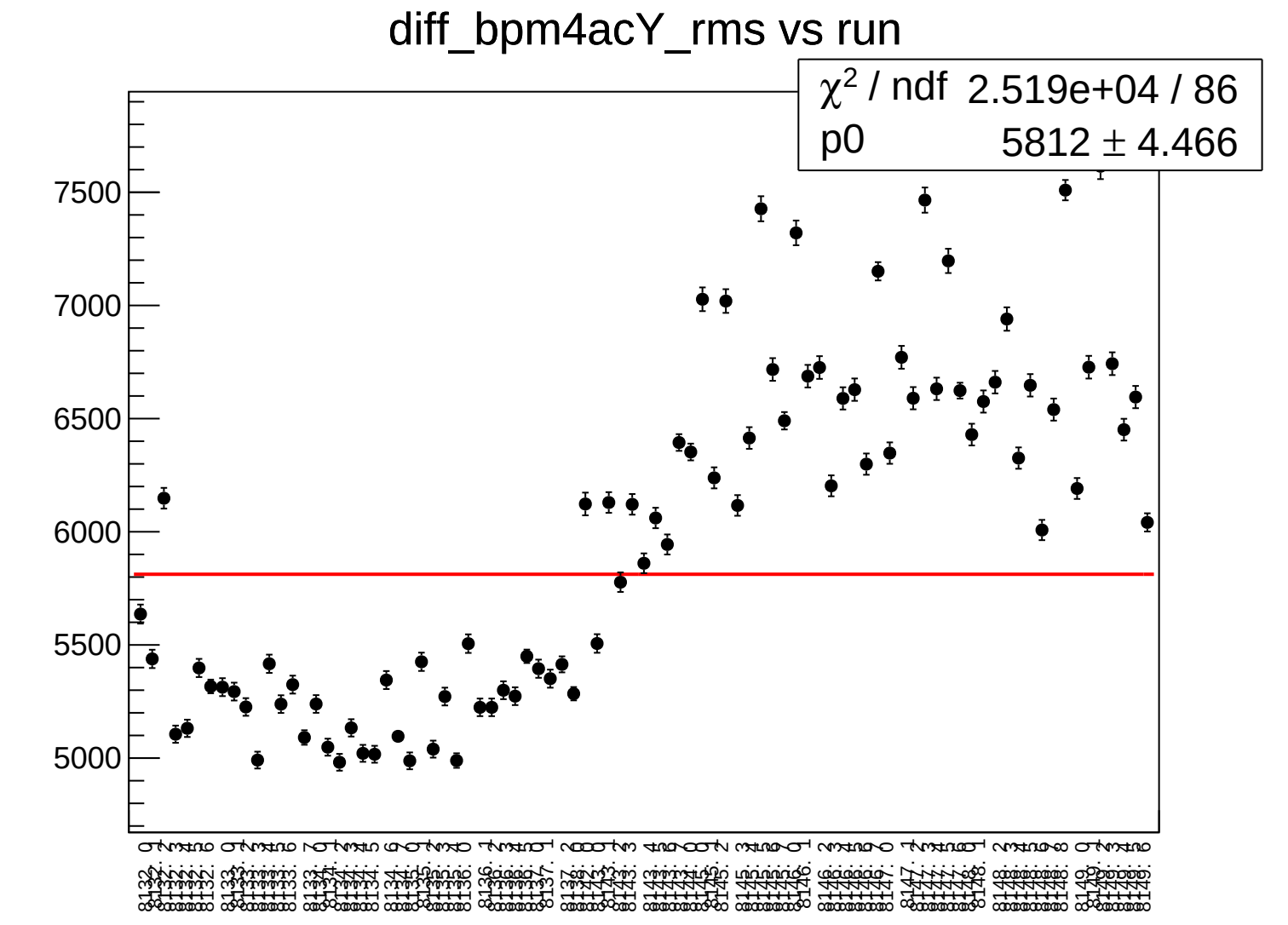

diff_bpm4acX_mean vs run
χ² / ndf 88.2 / 86
p0 −23.69 ± 21.04
pull
Entries 87
Mean −276.8
Std Dev 0

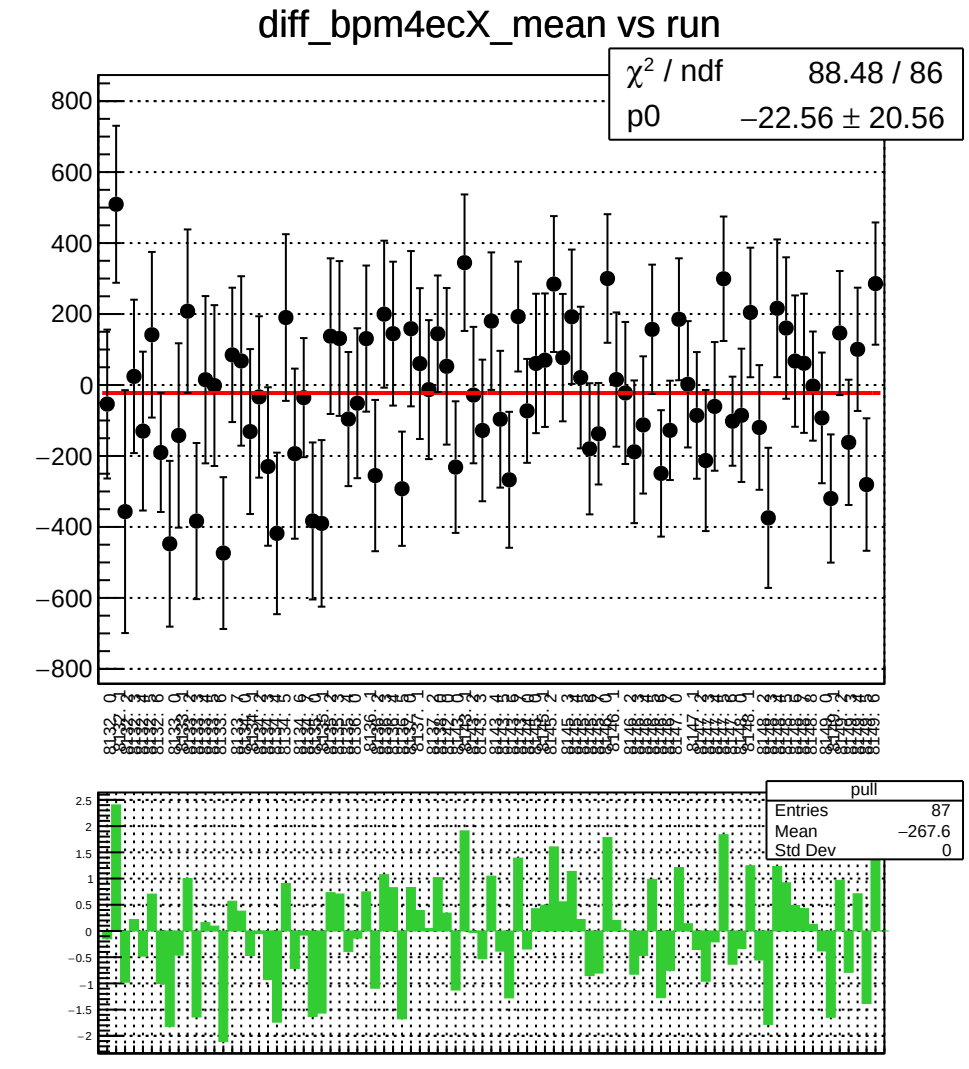

pull1D
Entries 87
Mean −0.009505
Std Dev 1.007

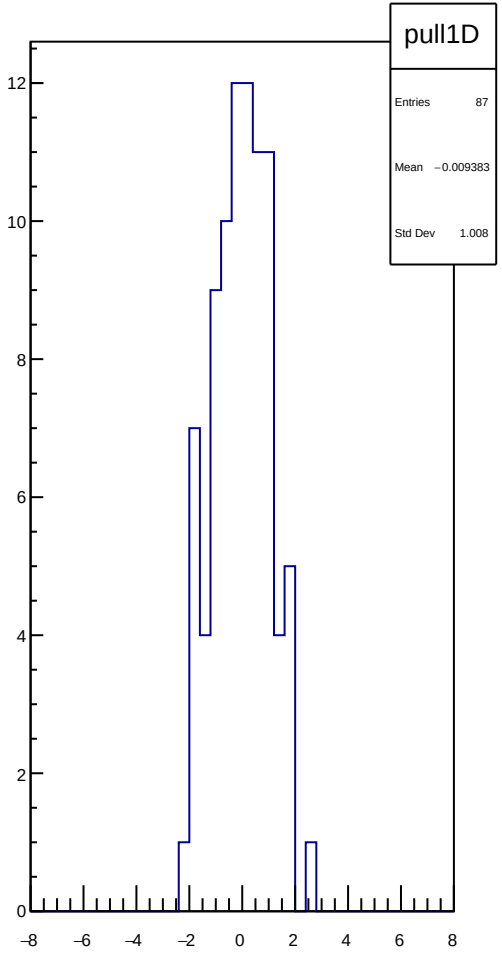

diff_bpm4acX_rms vs run
χ² / ndf 1.791e+04 / 86
p0 1.94e+04 ± 14.87
35000
30000
25000
20000
15000


diff_bpm4acY_mean vs run
χ² / ndf 108.7 / 86
p0 4.641 ± 6.316
pull
Entries 87
Mean 279
Std Dev 0

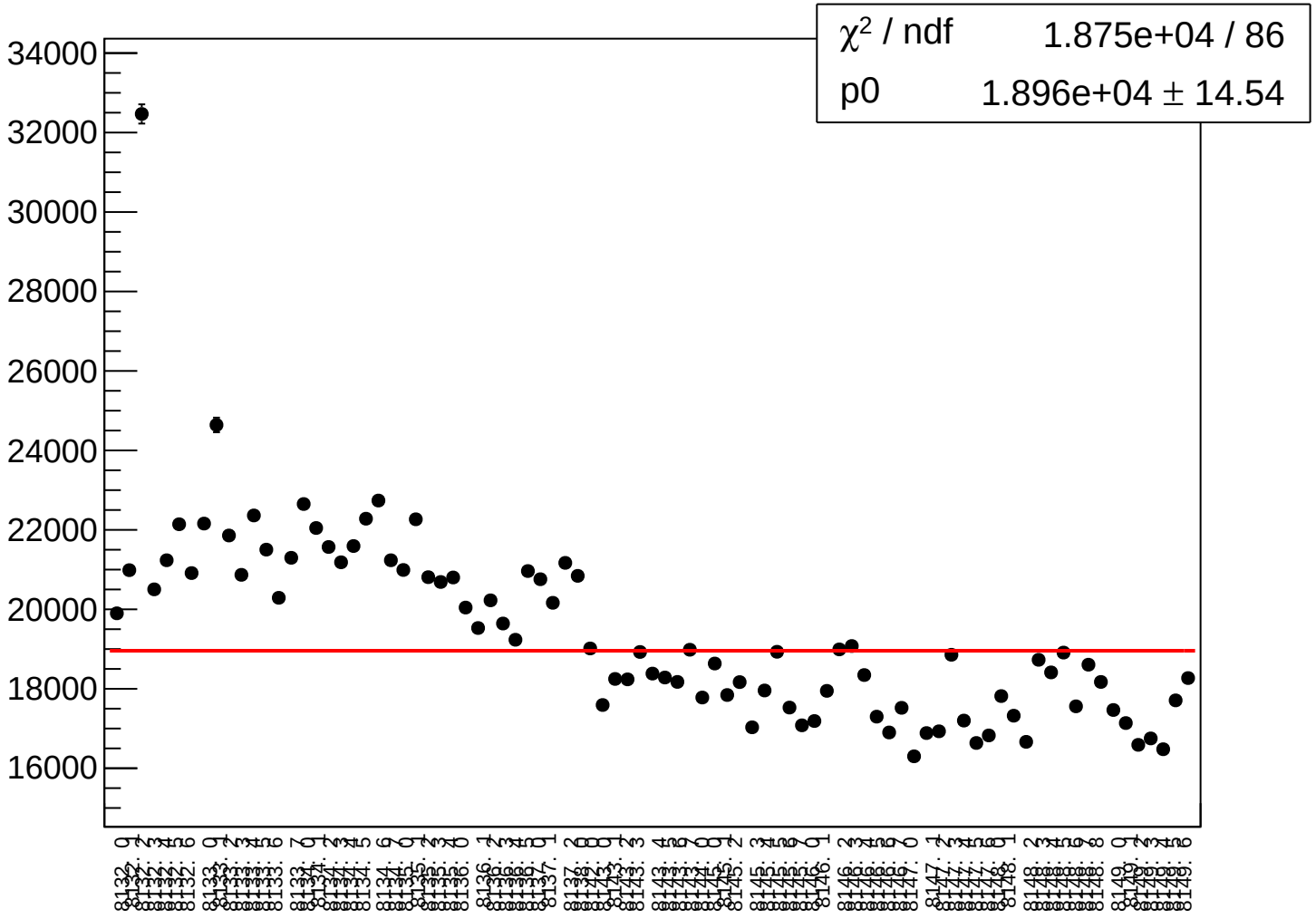

pull1D
Entries 87
Mean −0.02776
Std Dev 1.117

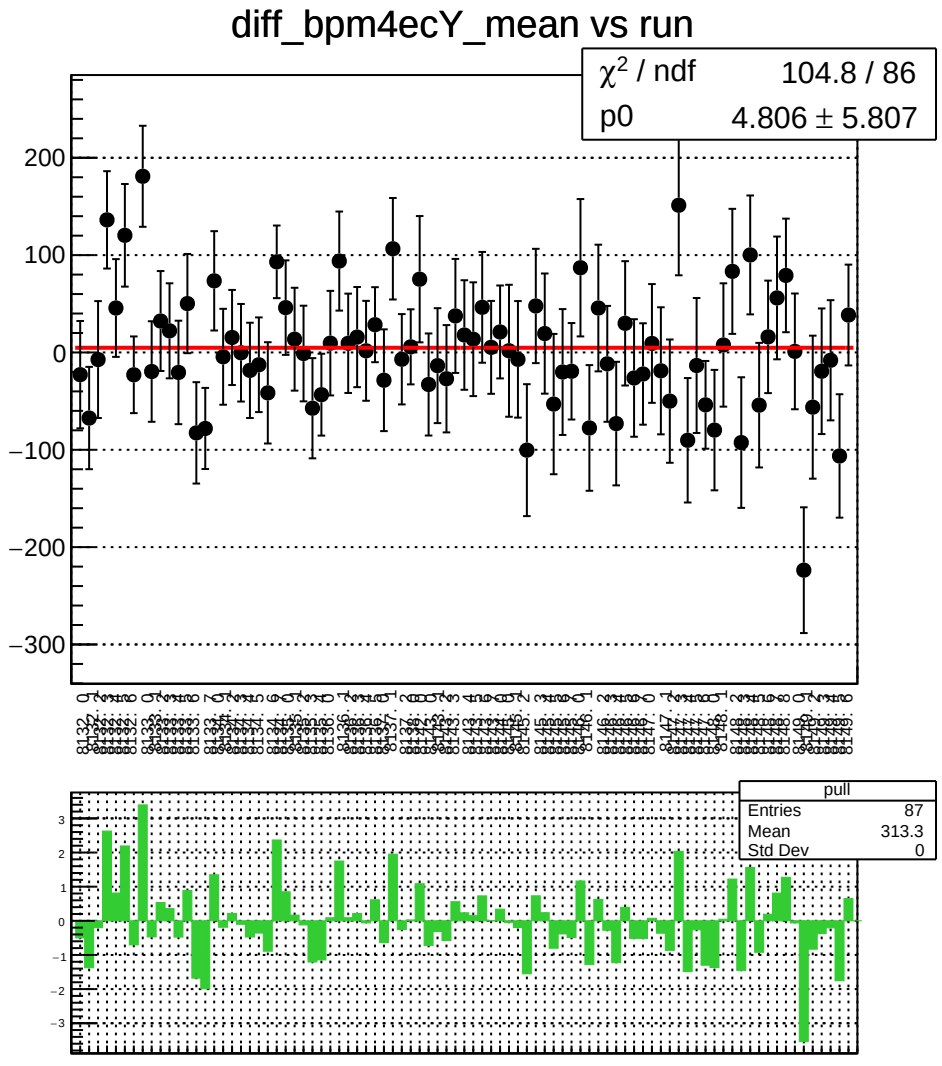

diff_bpm4acY_rms vs run
χ² / ndf 2.519e+04 / 86
p0 5812 ± 4.466
7500
7000
6500
6000
5500
5000

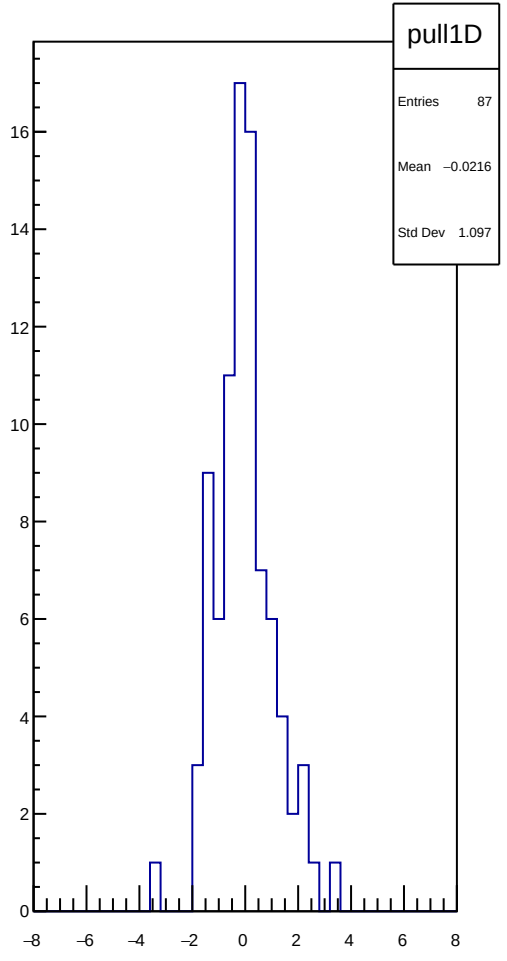

diff_bpm4ecX_mean vs run
χ² / ndf 88.48 / 86
p0 −22.56 ± 20.56
pull
Entries 87
Mean −267.6
Std Dev 0

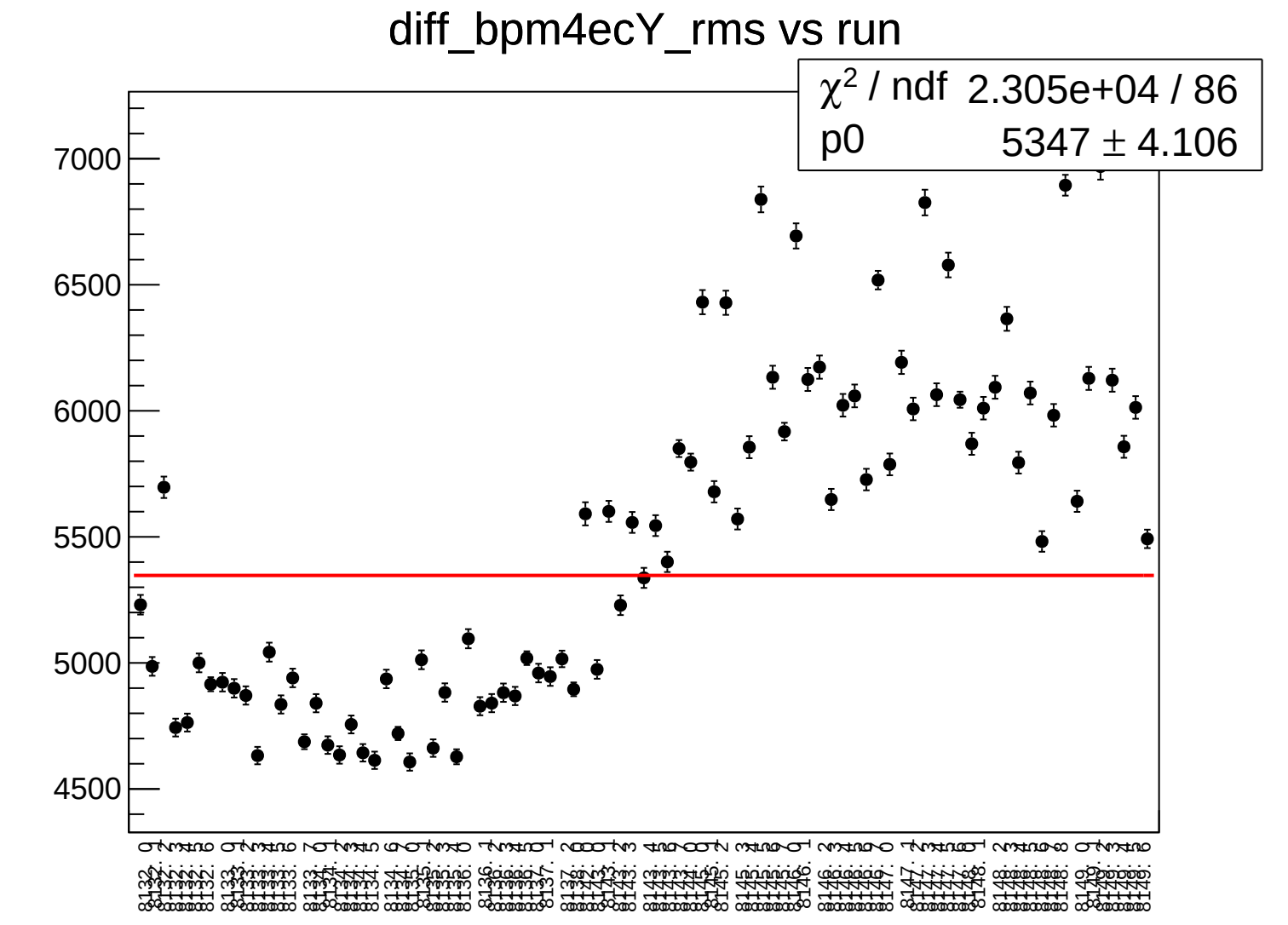

pull1D
Entries 87
Mean −0.009383
Std Dev 1.008

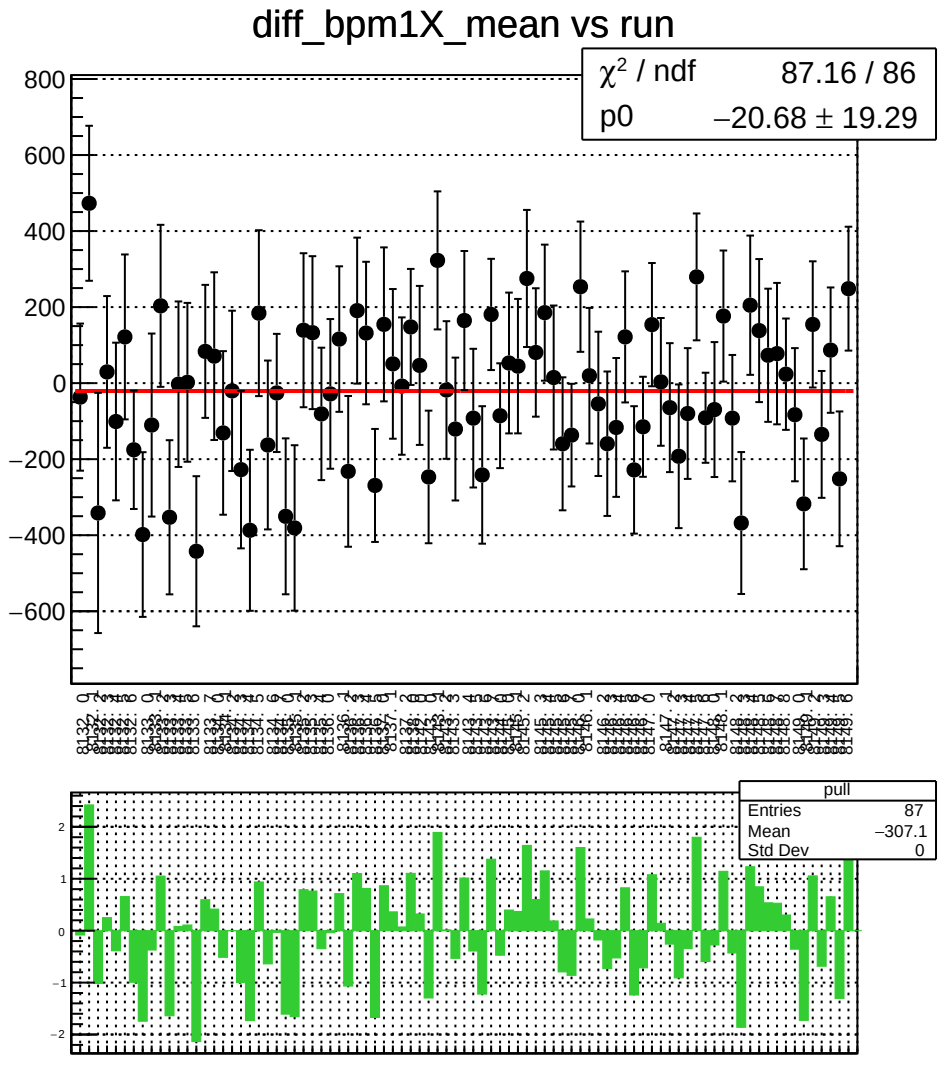
diff_bpm4ecX_rms vs run

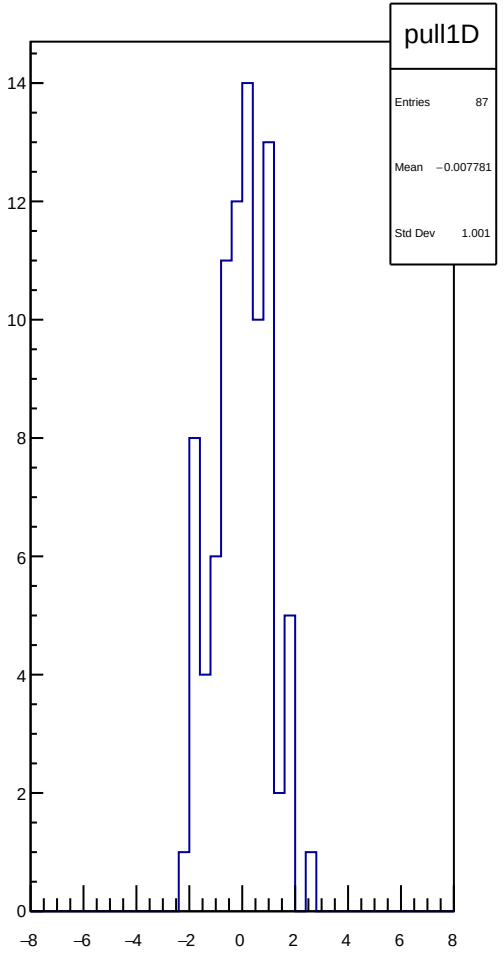


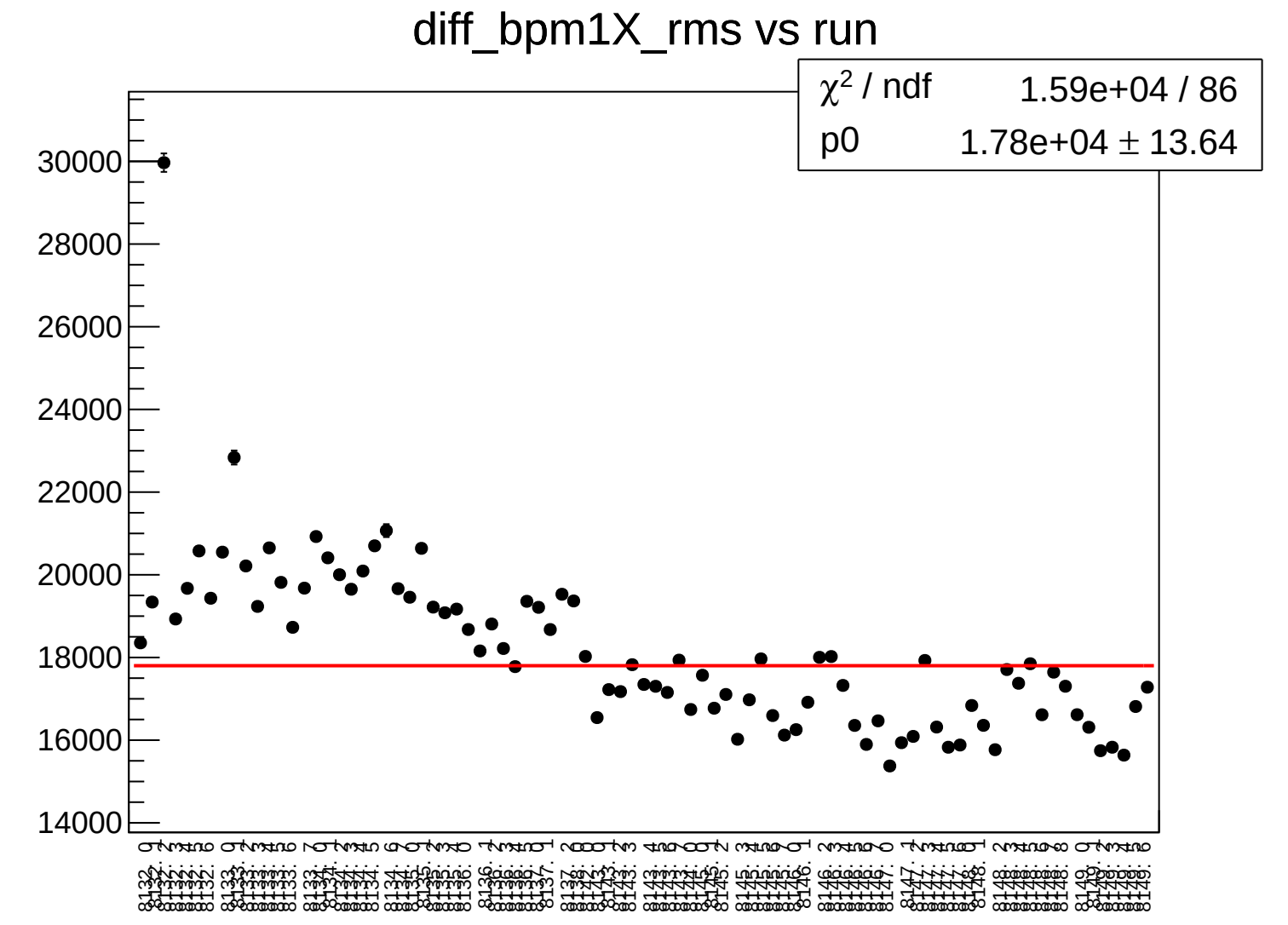

diff_bpm4ecY_mean vs run
χ² / ndf 104.8 / 86
p0 4.806 ± 5.807
200
100
0
−100
−200
−300
pull
Entries 87
Mean 313.3
Std Dev 0
3
2
1
0
−1
−2
−3

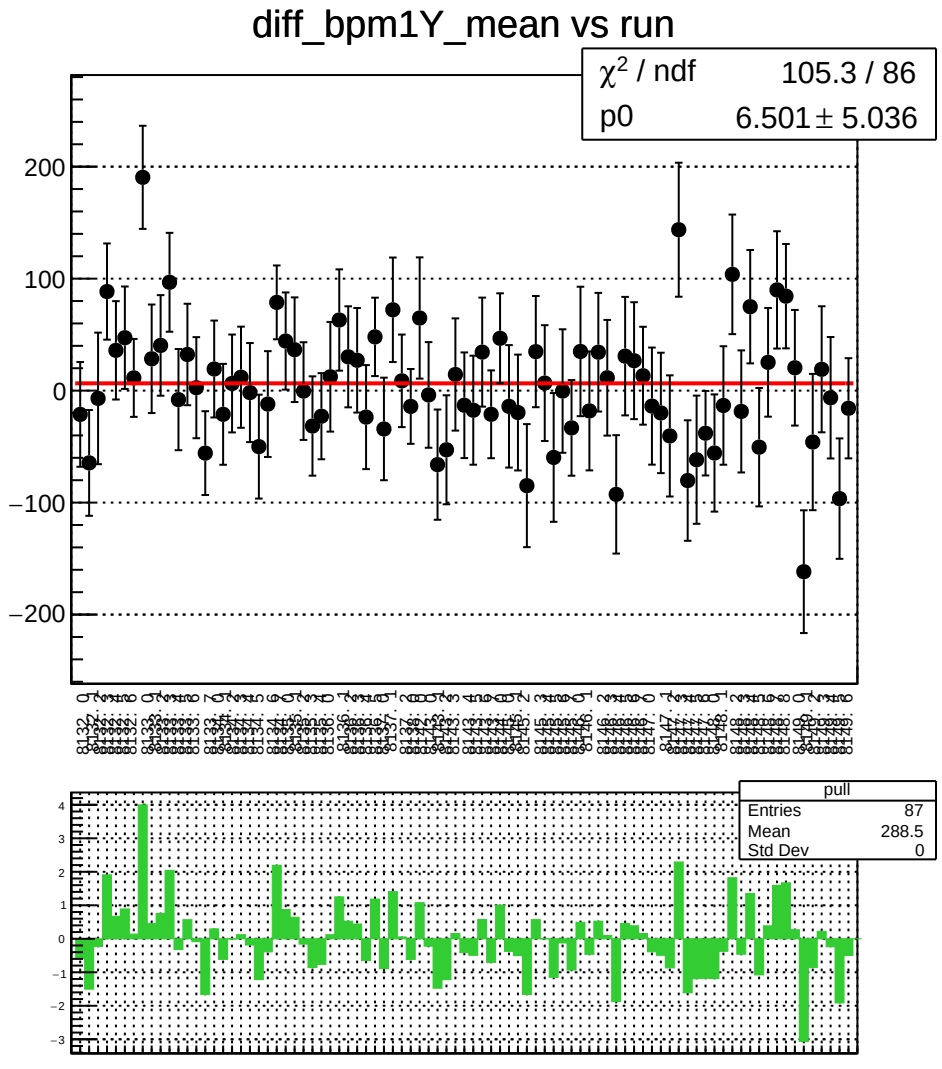

pull1D
Entries 87
Mean −0.0216
Std Dev 1.097
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

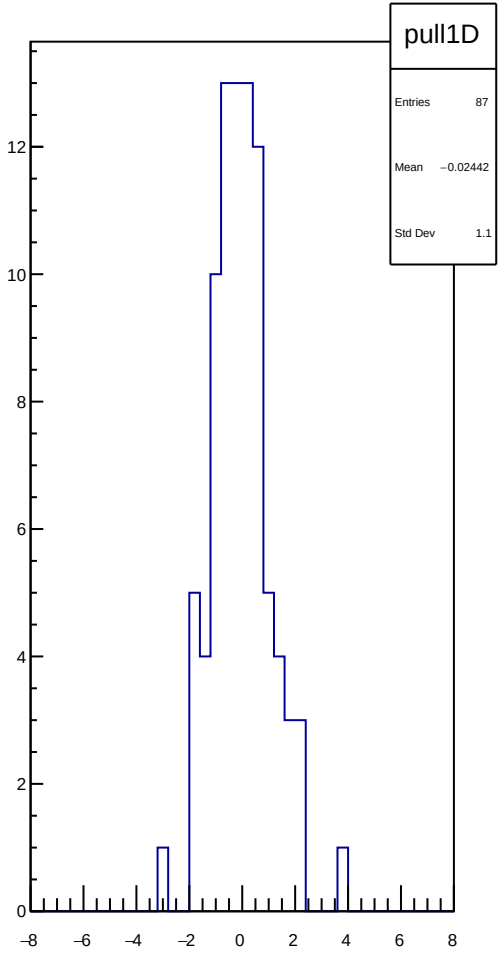

diff_bpm4ecY_rms vs run
χ² / ndf 2.305e+04 / 86
p0 5347 ± 4.106
7000
6500
6000
5500
5000
4500

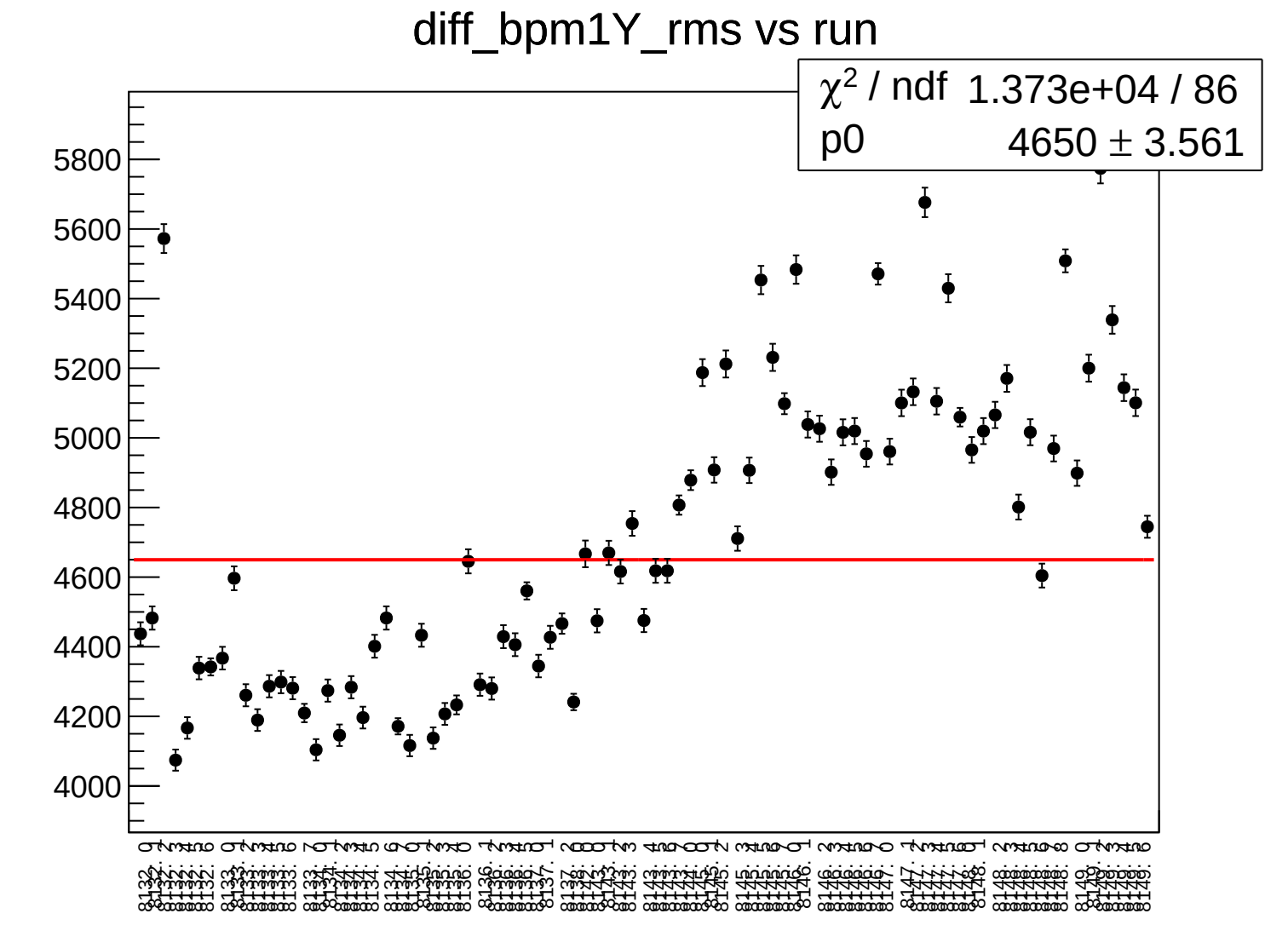

diff_bpm1X_mean vs run
χ² / ndf 87.16 / 86
p0 −20.68 ± 19.29
pull
Entries 87
Mean −307.1
Std Dev 0

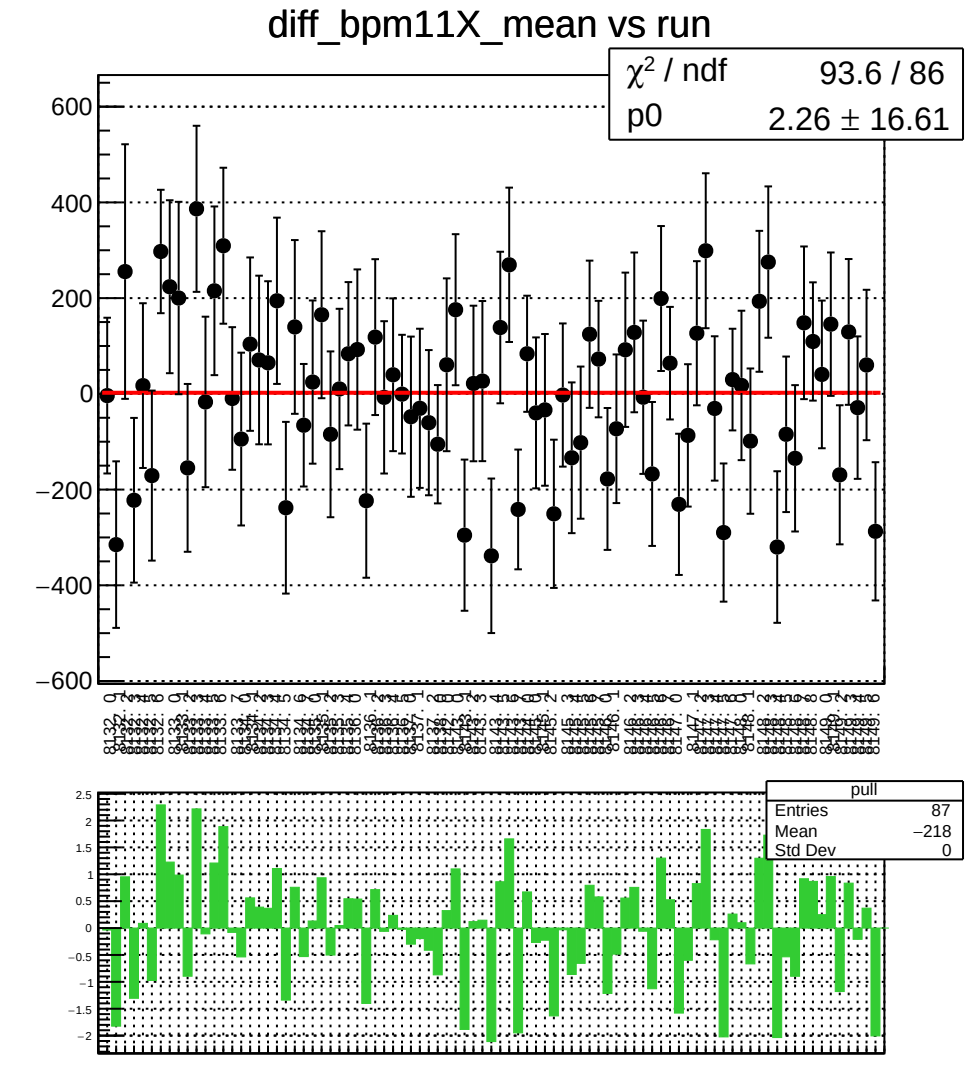

pull1D
Entries 87
Mean −0.007781
Std Dev 1.001

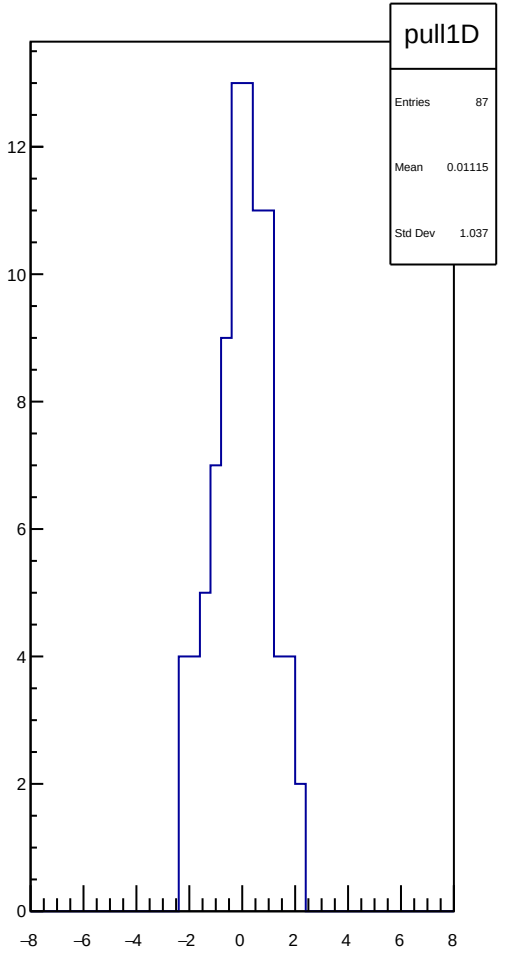

diff_bpm1X_rms vs run
χ² / ndf 1.59e+04 / 86
p0 1.78e+04 ± 13.64
30000
28000
26000
24000
22000
20000
18000
16000
14000


diff_bpm1Y_mean vs run
χ² / ndf 105.3 / 86
p0 6.501 ± 5.036
200
100
0
−100
−200
pull
Entries 87
Mean 288.5
Std Dev 0
4
3
2
1
0
−1
−2
−3

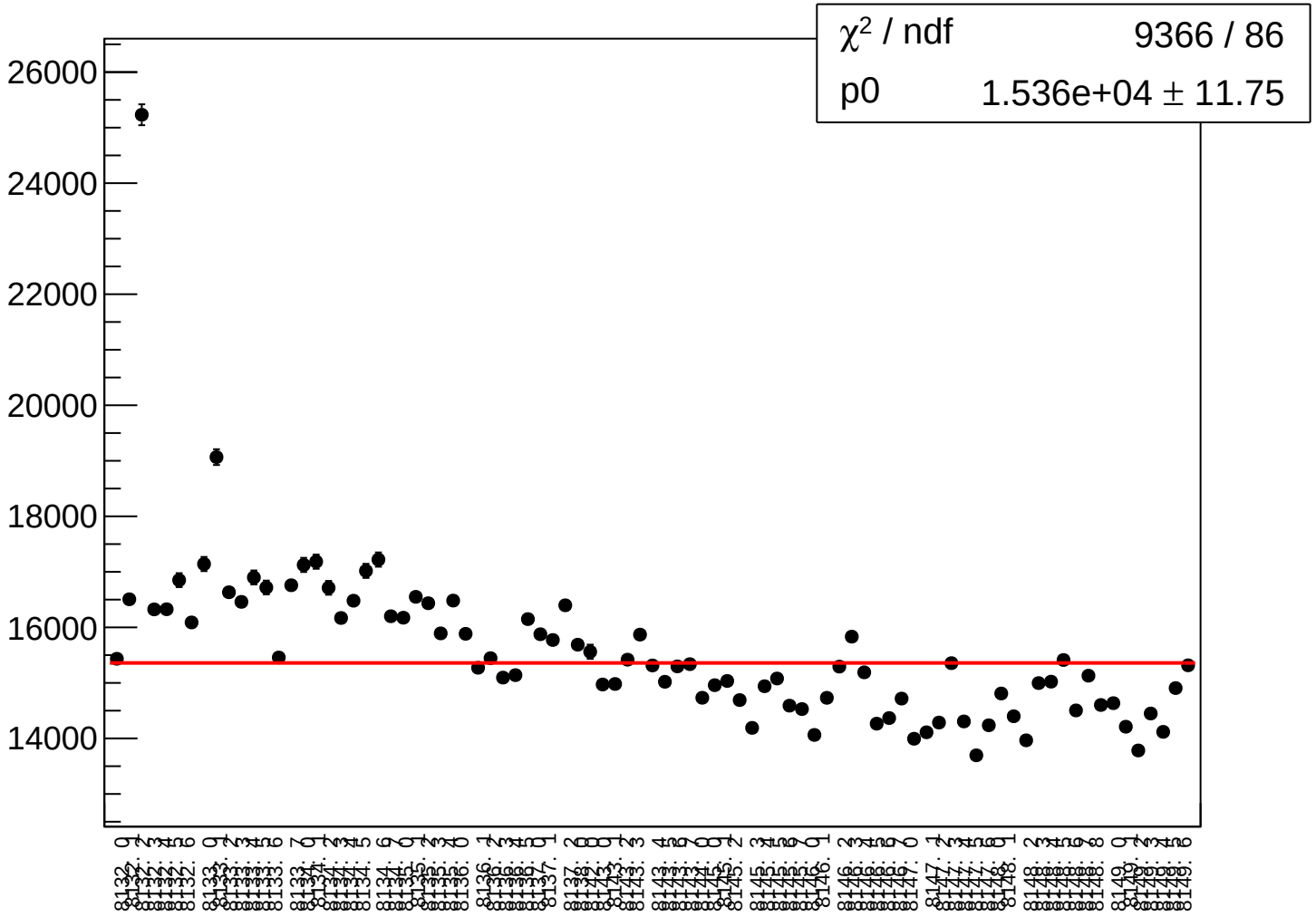

pull1D
Entries 87
Mean −0.02442
Std Dev 1.1
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

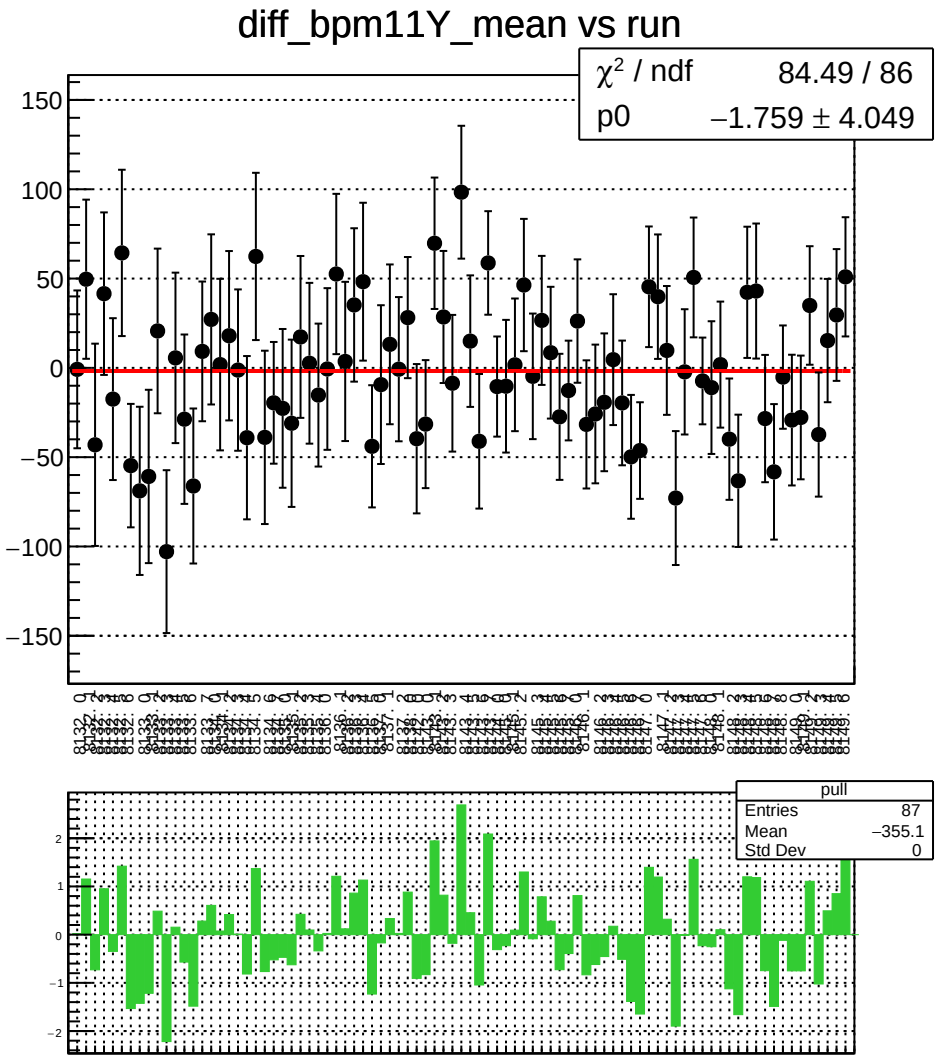

diff_bpm1Y_rms vs run
χ² / ndf 1.373e+04 / 86
p0 4650 ± 3.561
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000

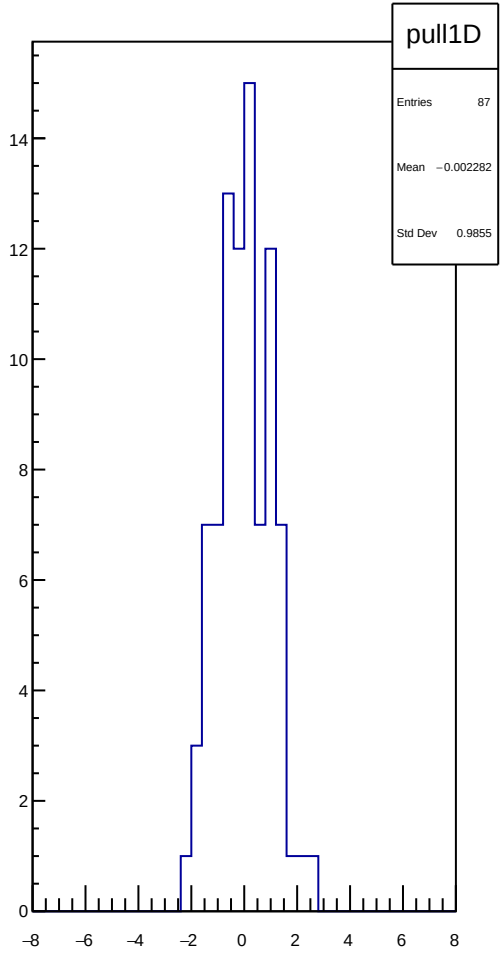

diff_bpm11X_mean vs run
χ² / ndf 93.6 / 86
p0 2.26 ± 16.61
pull
Entries 87
Mean −218
Std Dev 0

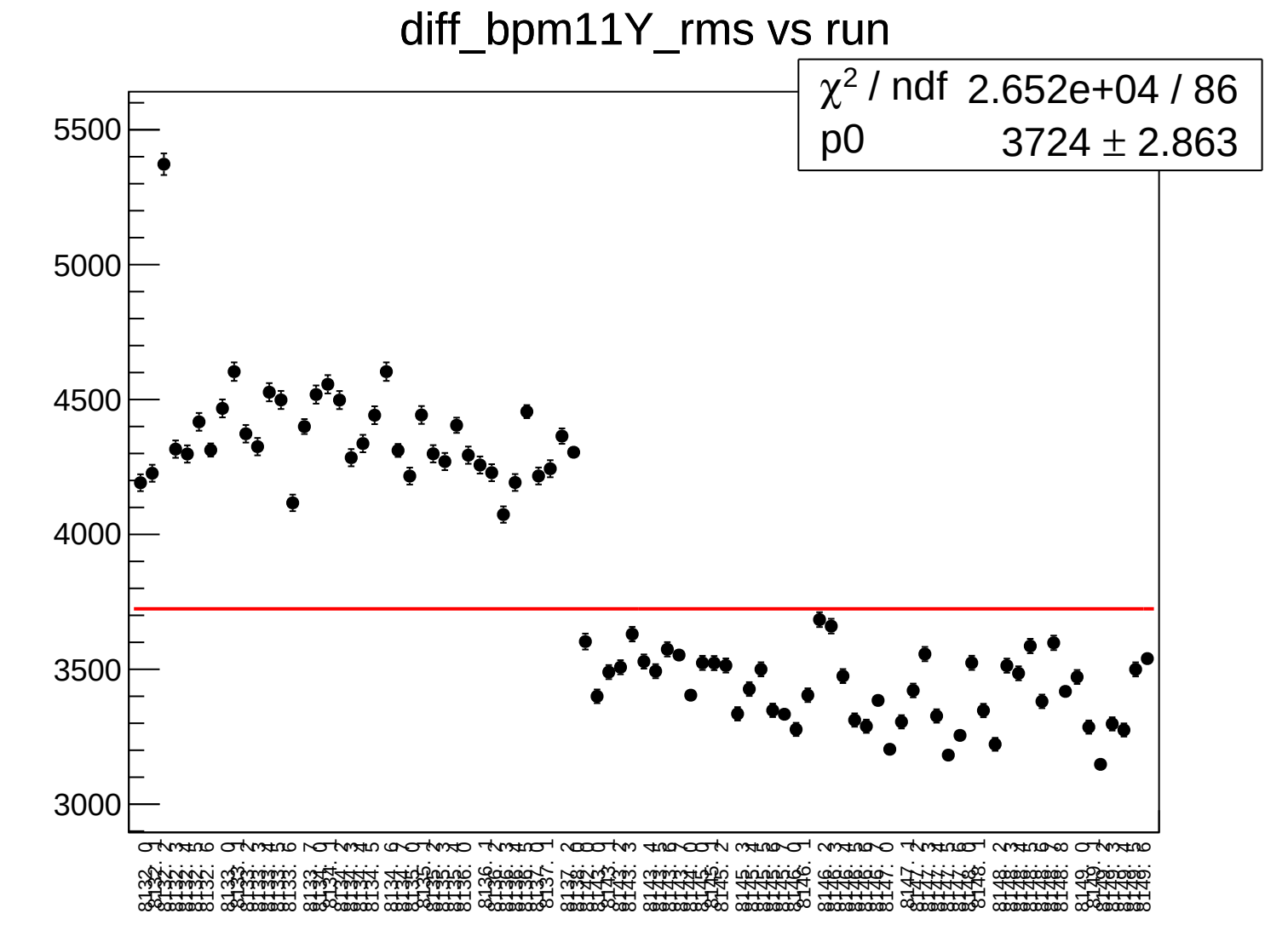

pull1D
Entries 87
Mean 0.01115
Std Dev 1.037

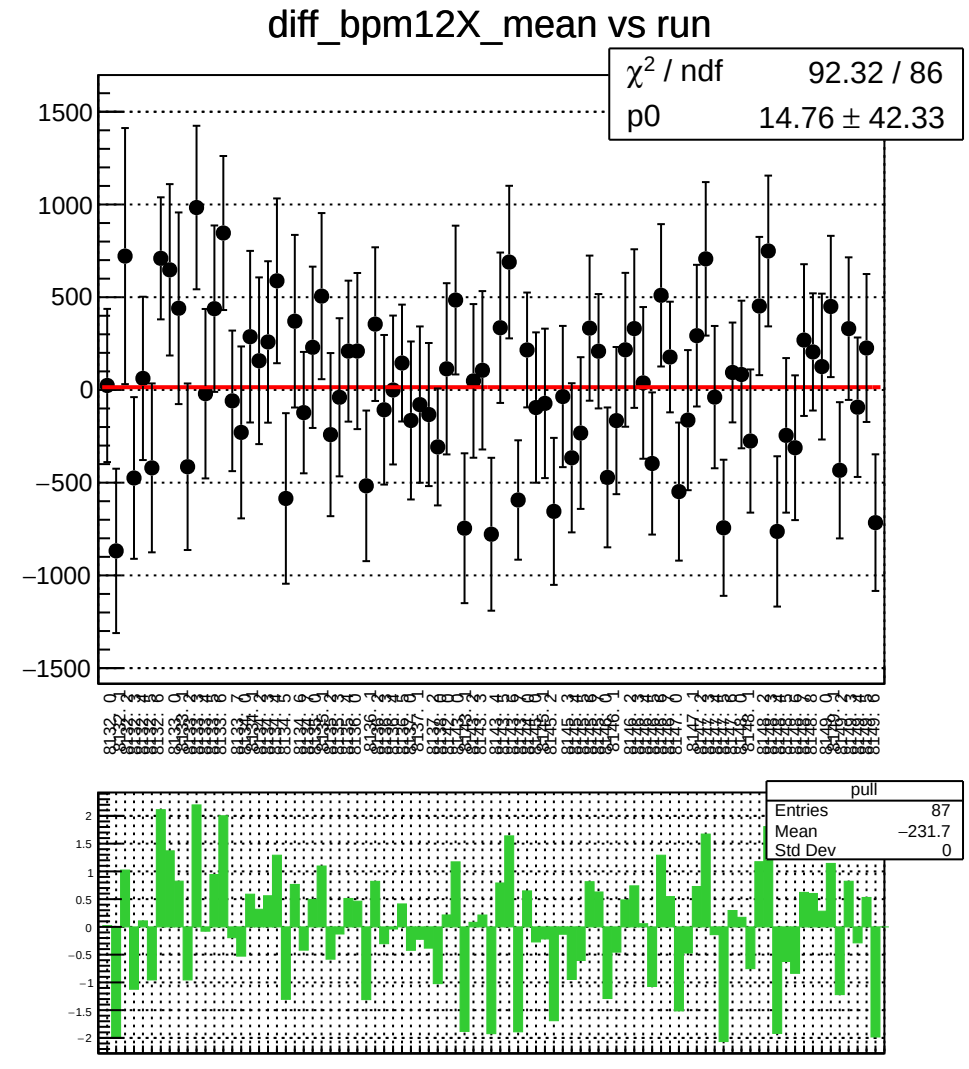
diff_bpm11X_rms vs run

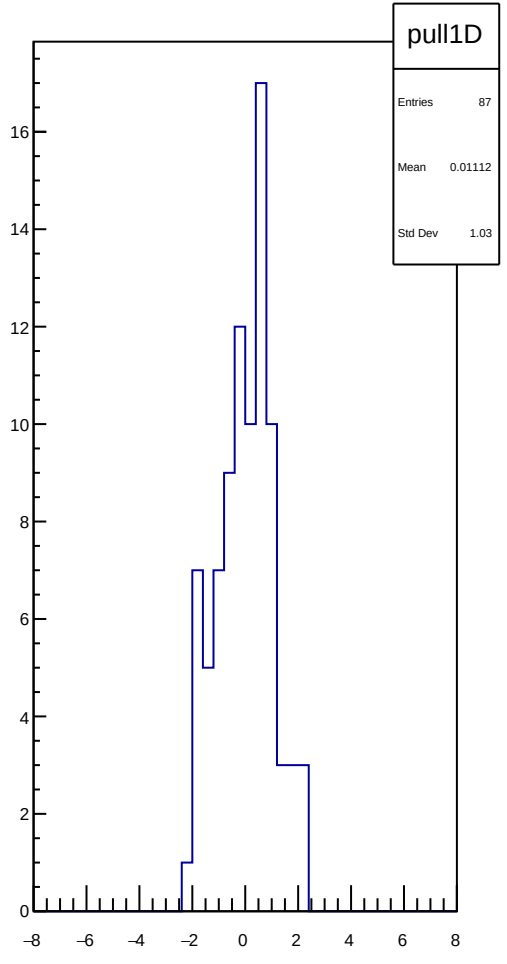



diff_bpm11Y_mean vs run
χ² / ndf 84.49 / 86
p0 −1.759 ± 4.049
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean −355.1
Std Dev 0
2
1
0
−1
−2

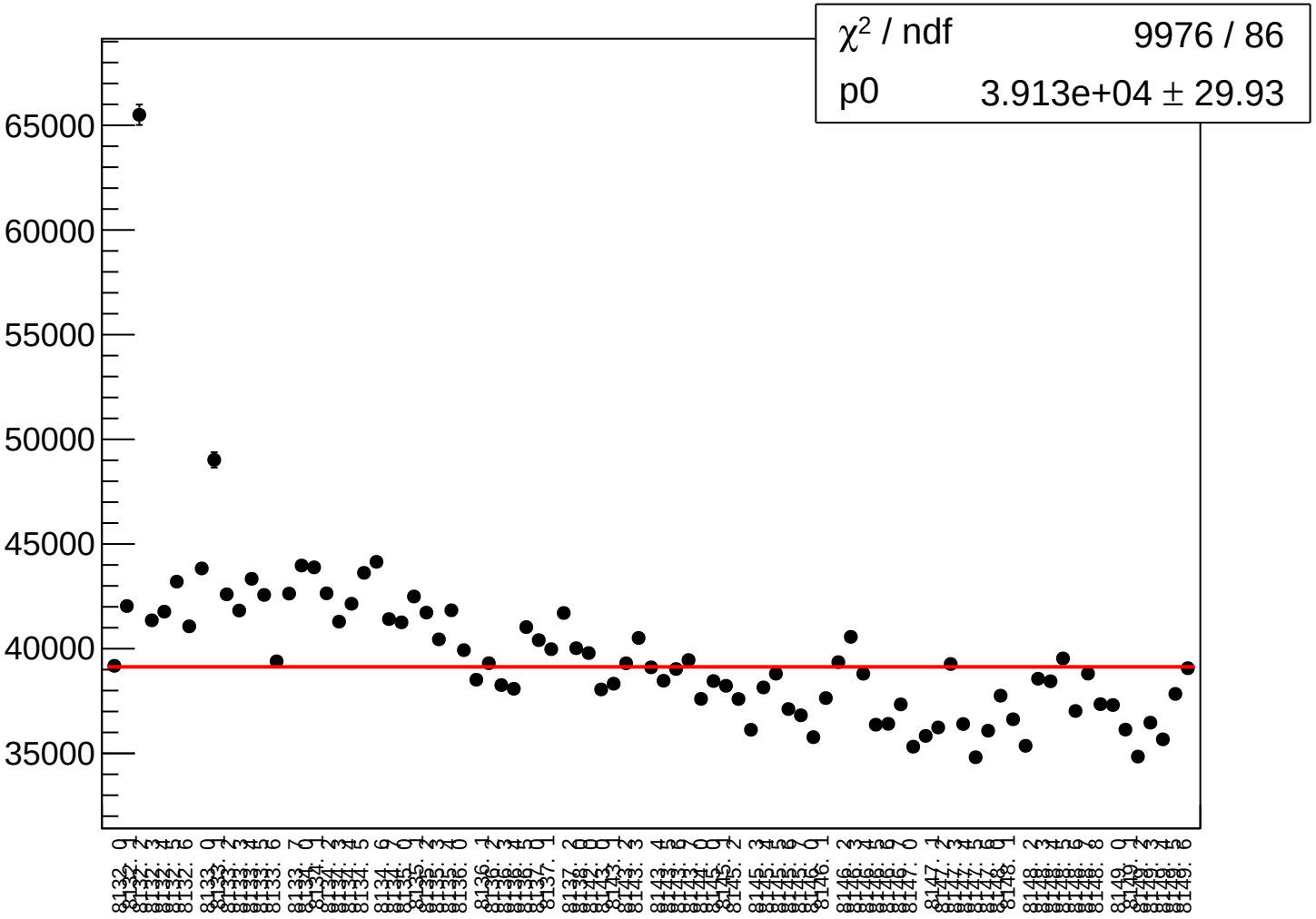

pull1D
Entries 87
Mean −0.002282
Std Dev 0.9855
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

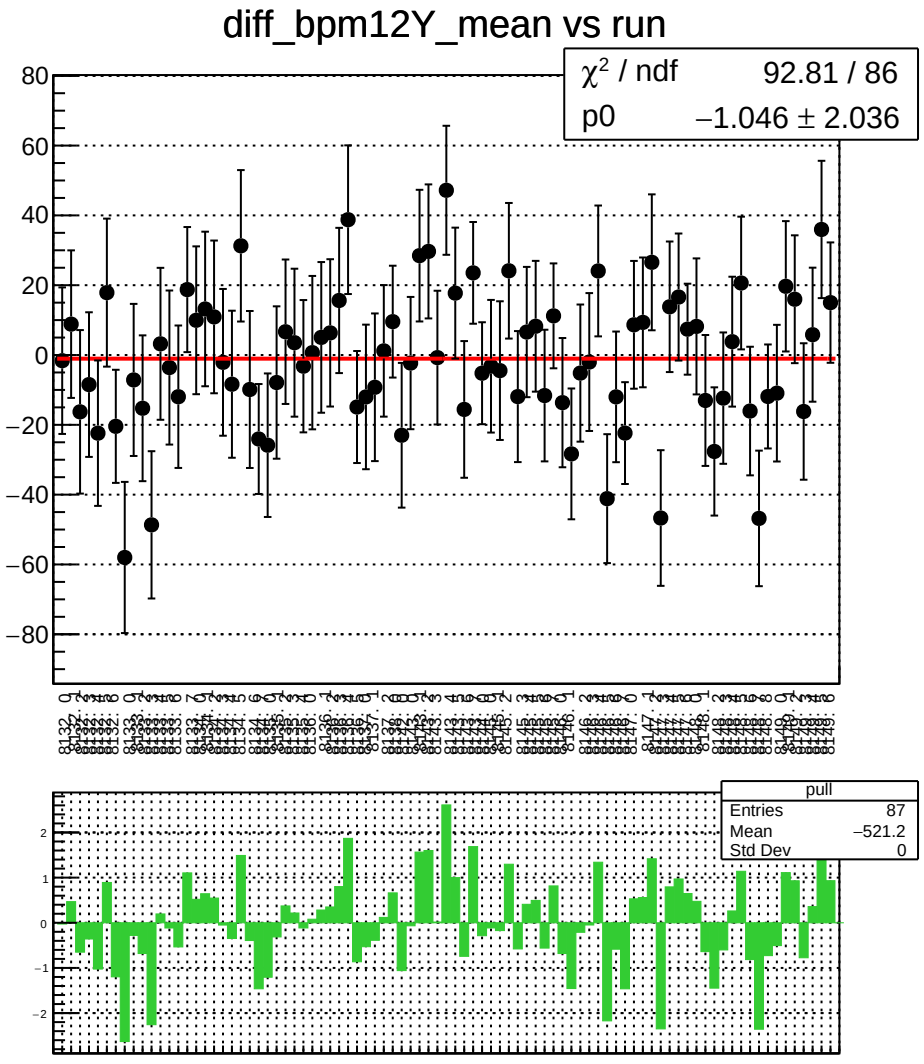

diff_bpm11Y_rms vs run
χ² / ndf 2.652e+04 / 86
p0 3724 ± 2.863
5500
5000
4500
4000
3500
3000

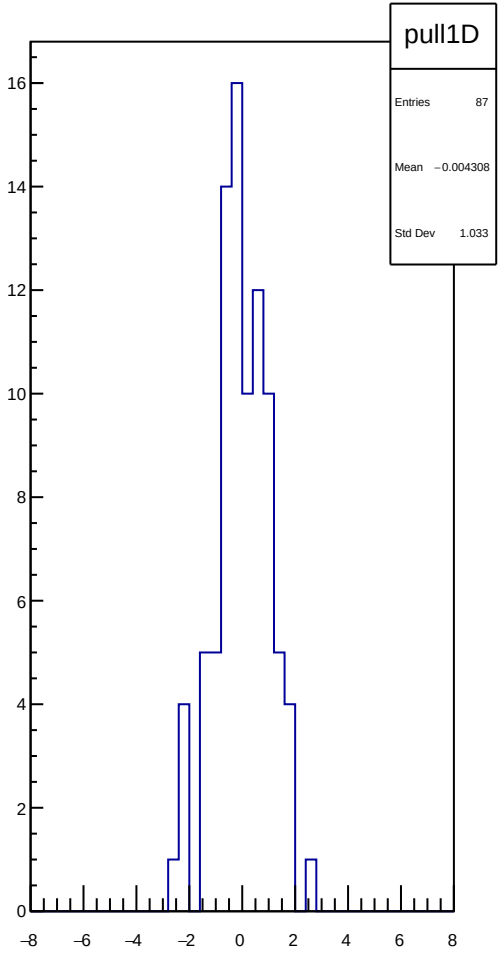

diff_bpm12X_mean vs run
χ² / ndf 92.32 / 86
p0 14.76 ± 42.33
1500
1000
500
0
−500
−1000
−1500
pull
Entries 87
Mean −231.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

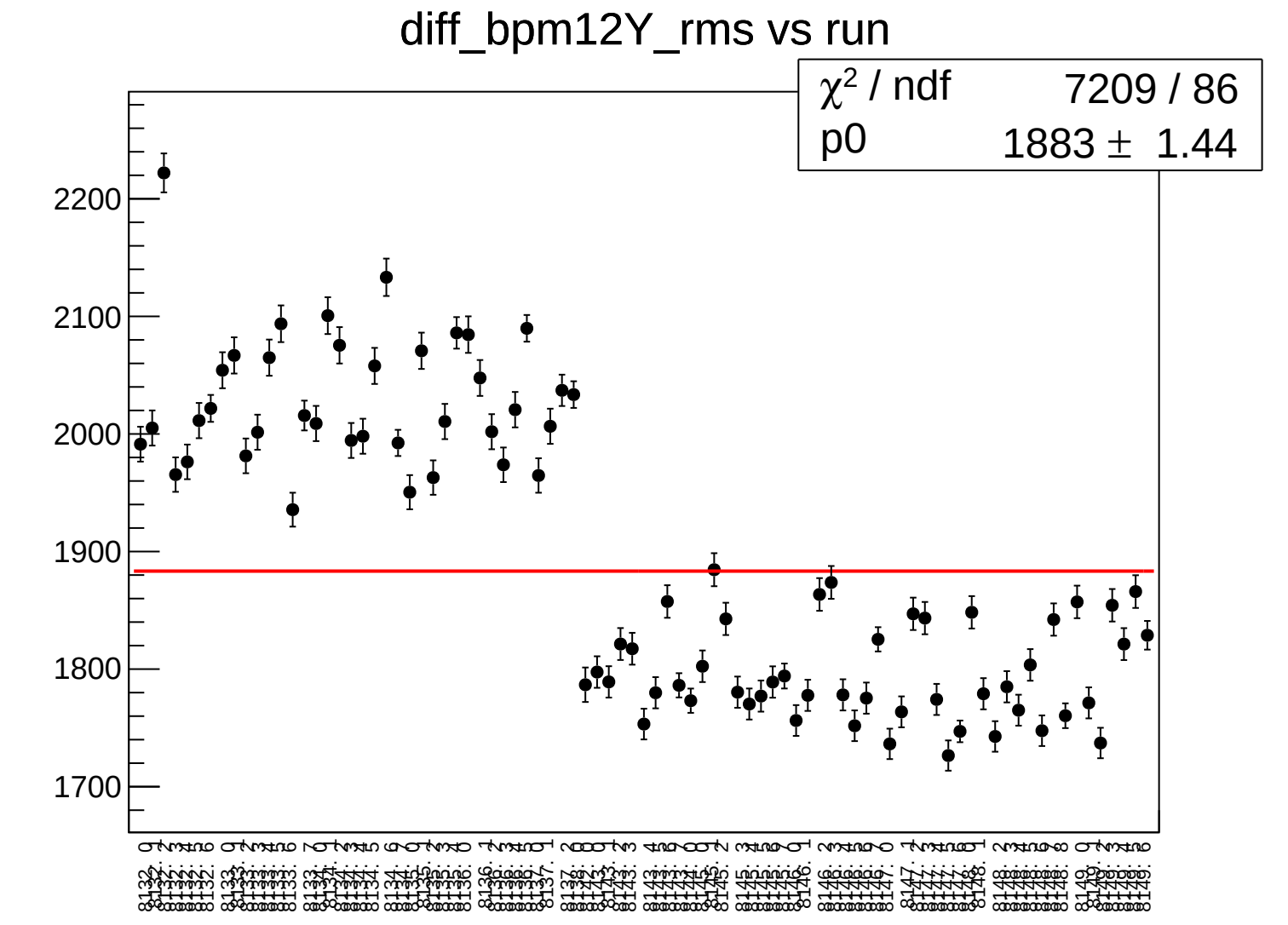

pull1D
Entries 87
Mean 0.01112
Std Dev 1.03
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

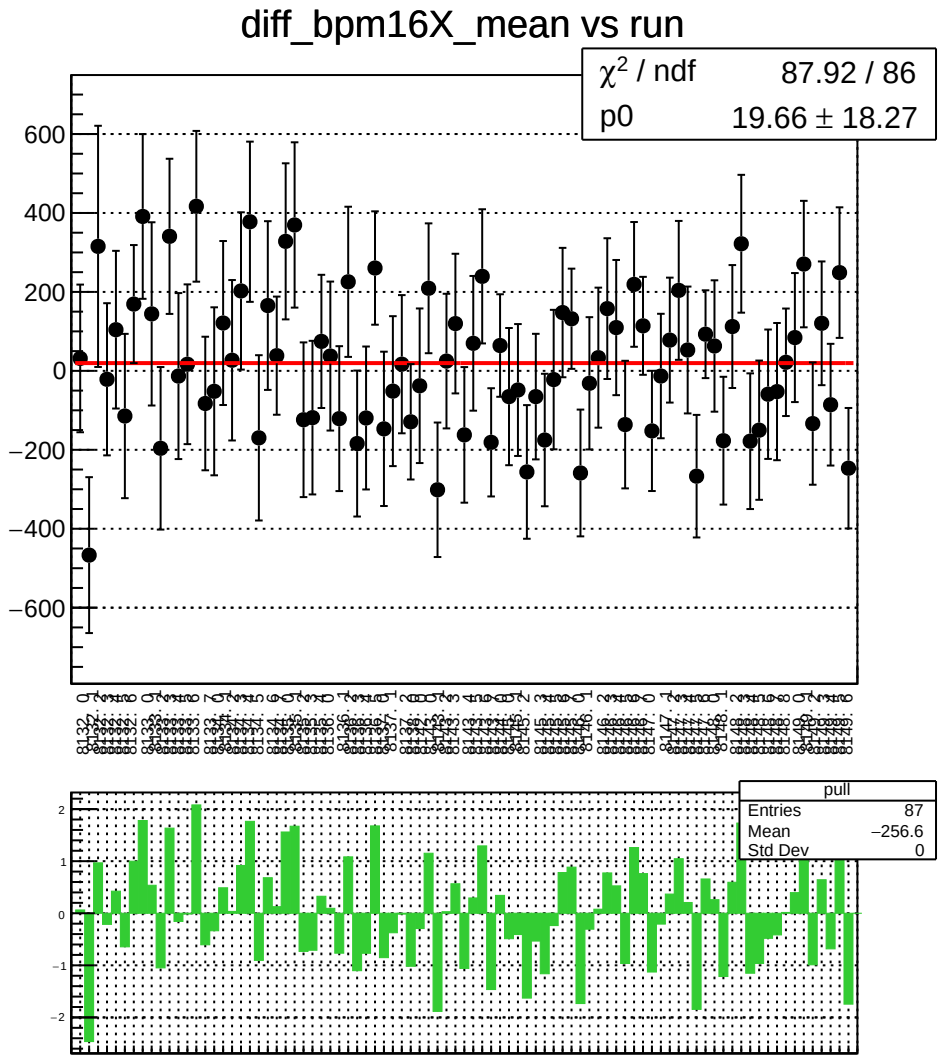
diff_bpm12X_rms vs run

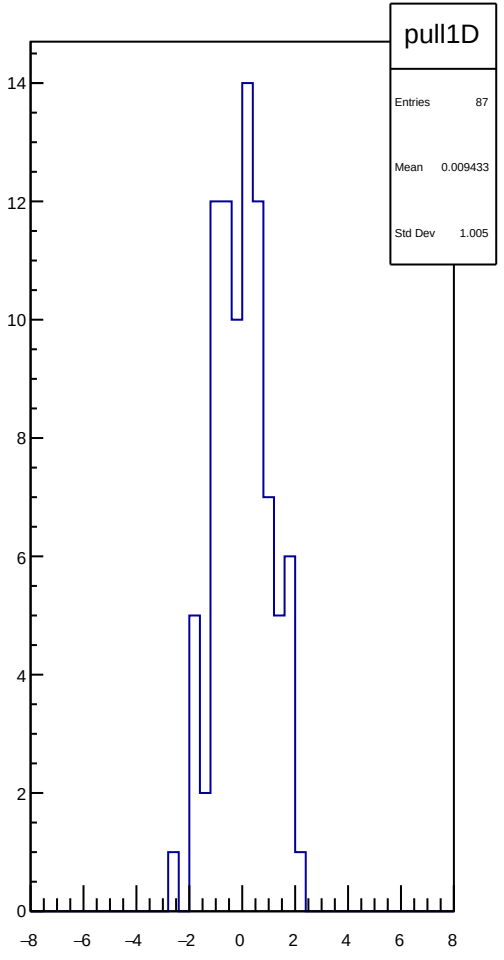


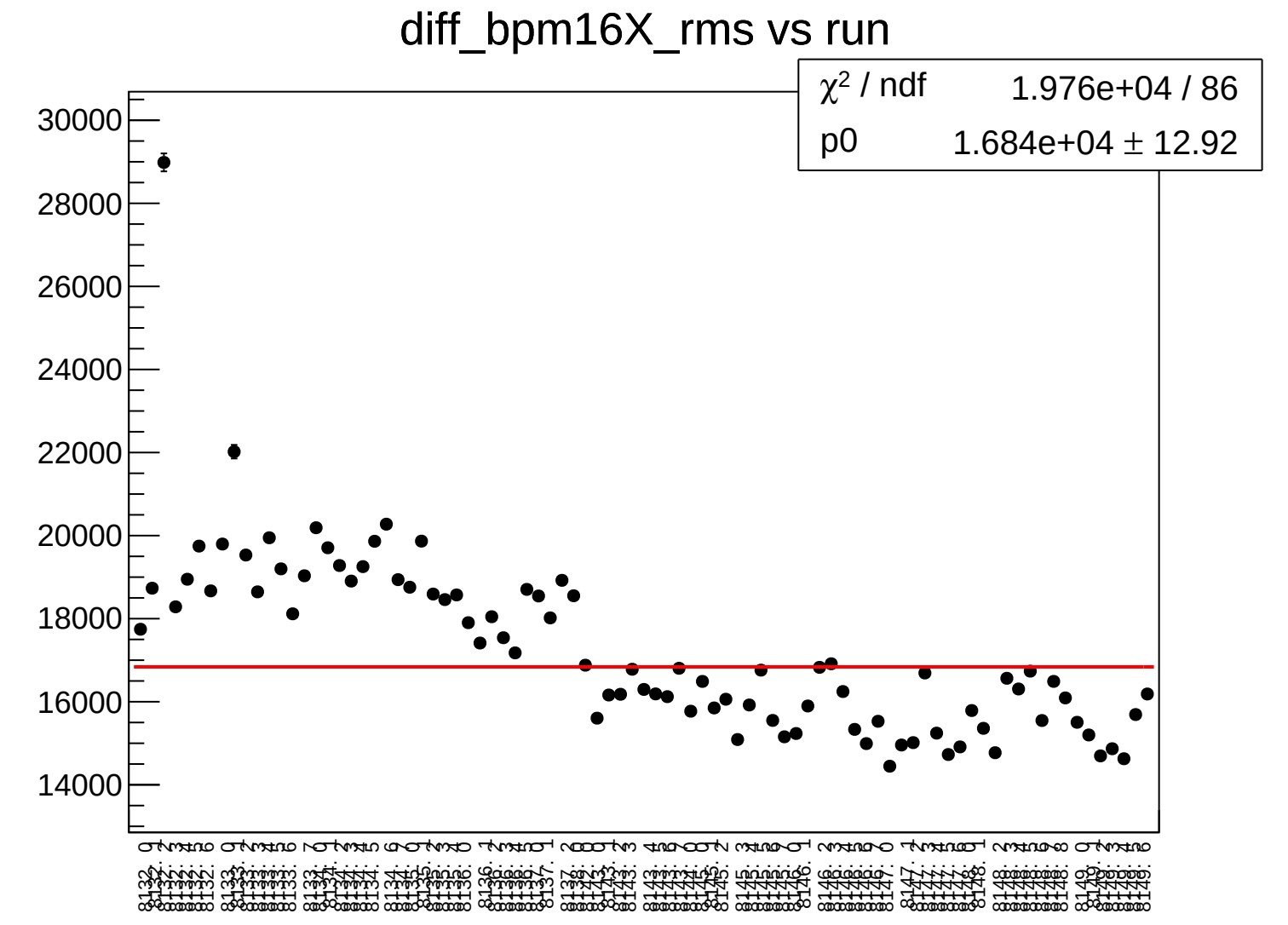

diff_bpm12Y_mean vs run
χ² / ndf 92.81 / 86
p0 −1.046 ± 2.036
pull
Entries 87
Mean −521.2
Std Dev 0

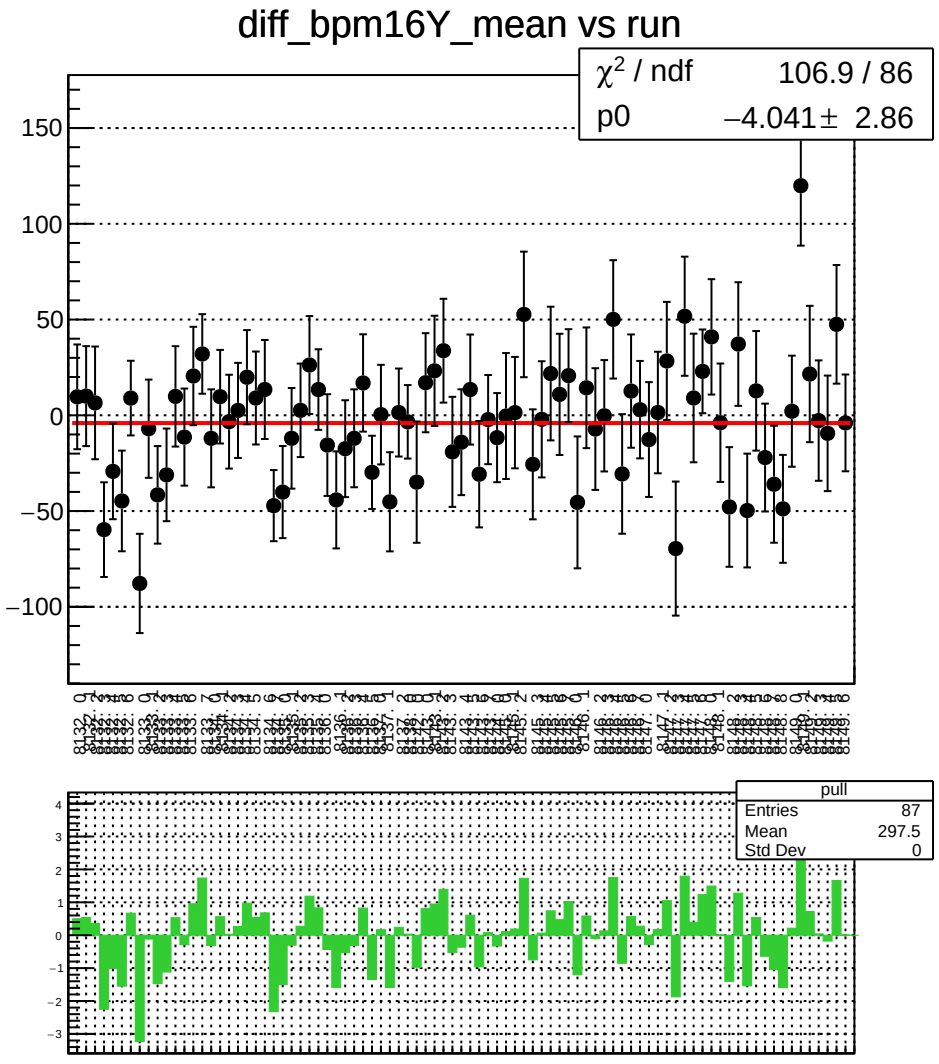

pull1D
Entries 87
Mean −0.004308
Std Dev 1.033

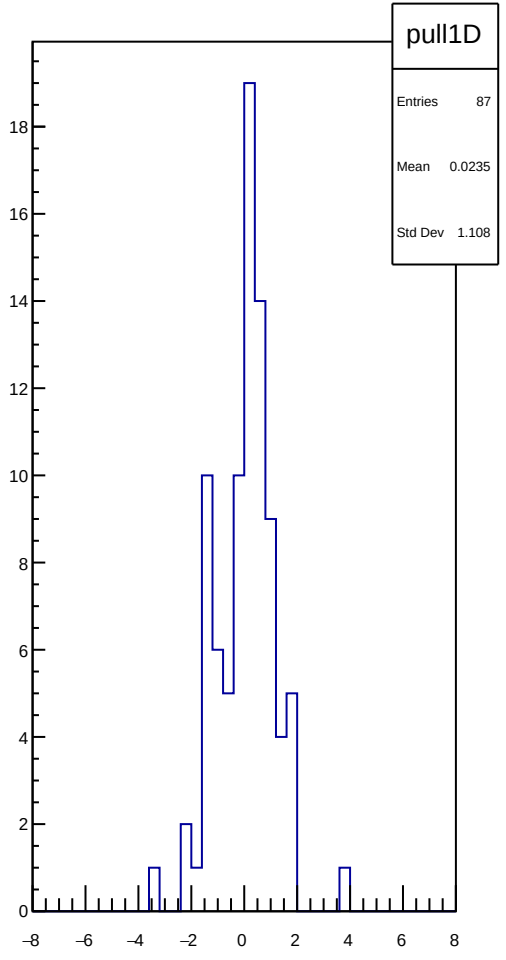

diff_bpm12Y_rms vs run
χ² / ndf 7209 / 86
p0 1883 ± 1.44
2200
2100
2000
1900
1800
1700

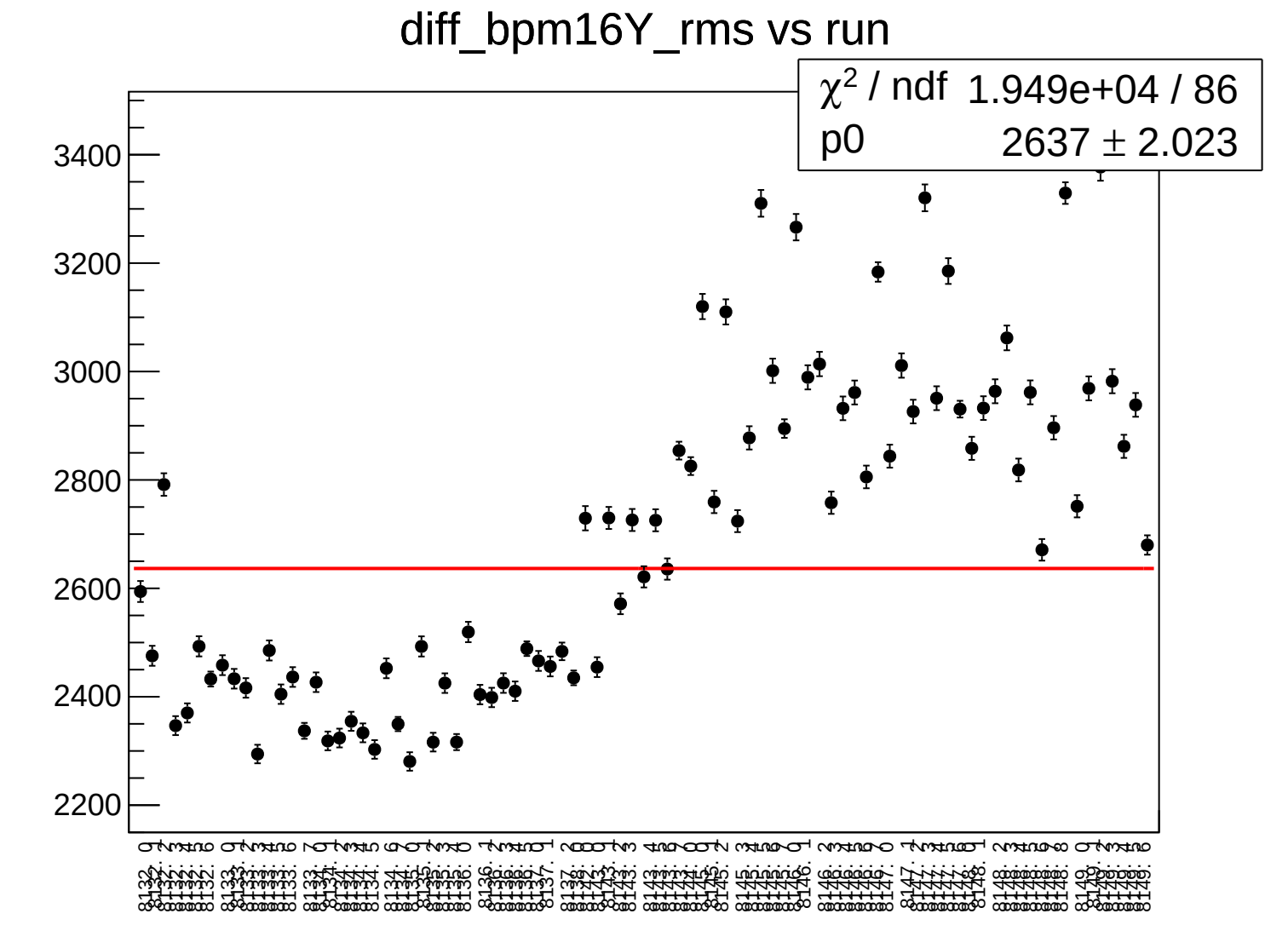

diff_bpm16X_mean vs run
χ² / ndf 87.92 / 86
p0 19.66 ± 18.27
600
400
200
0
−200
−400
−600
pull
Entries 87
Mean −256.6
Std Dev 0
2
1
0
−1
−2

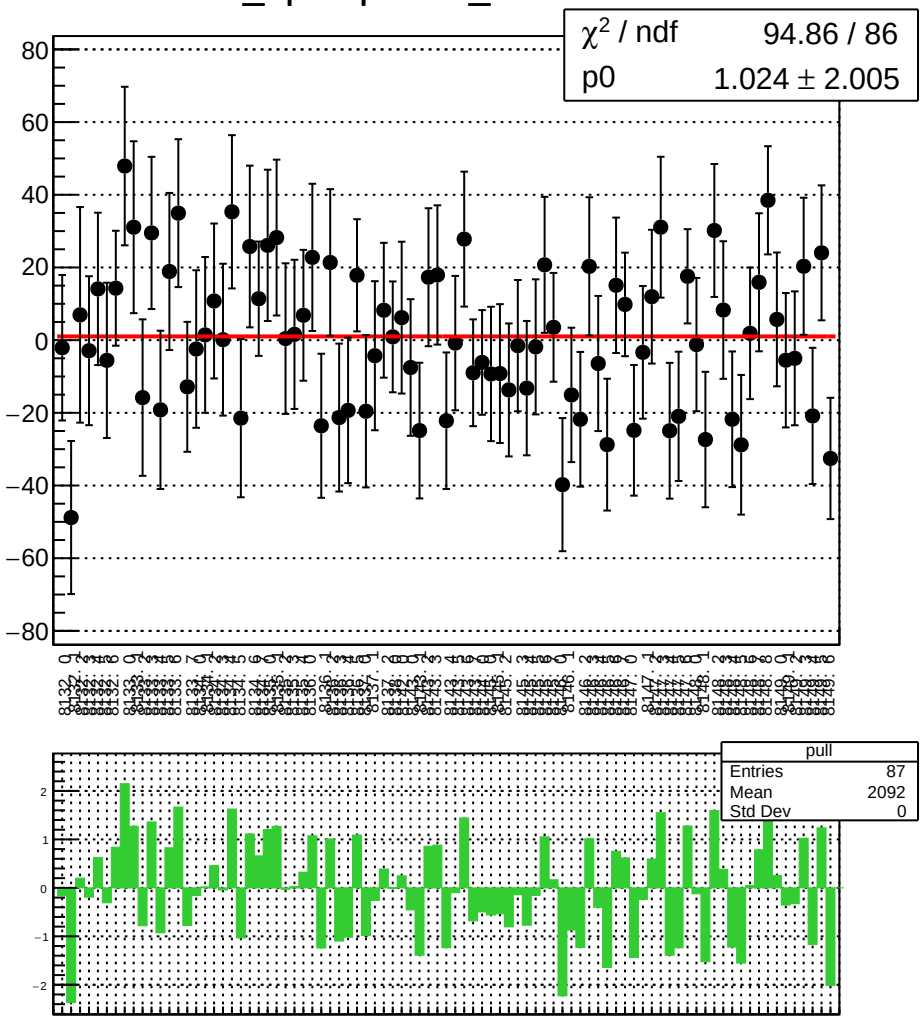

pull1D
Entries 87
Mean 0.009433
Std Dev 1.005
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

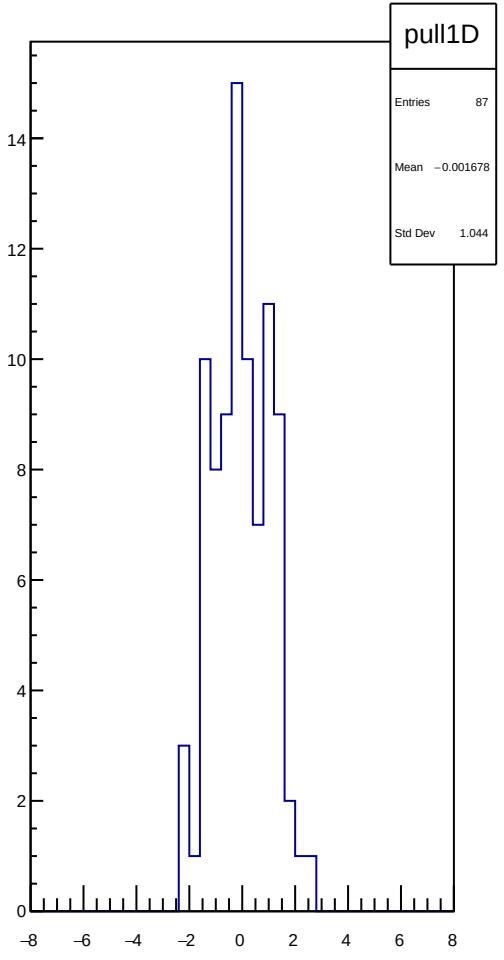

diff_bpm16X_rms vs run
χ² / ndf 1.976e+04 / 86
p0 1.684e+04 ± 12.92
30000
28000
26000
24000
22000
20000
18000
16000
14000

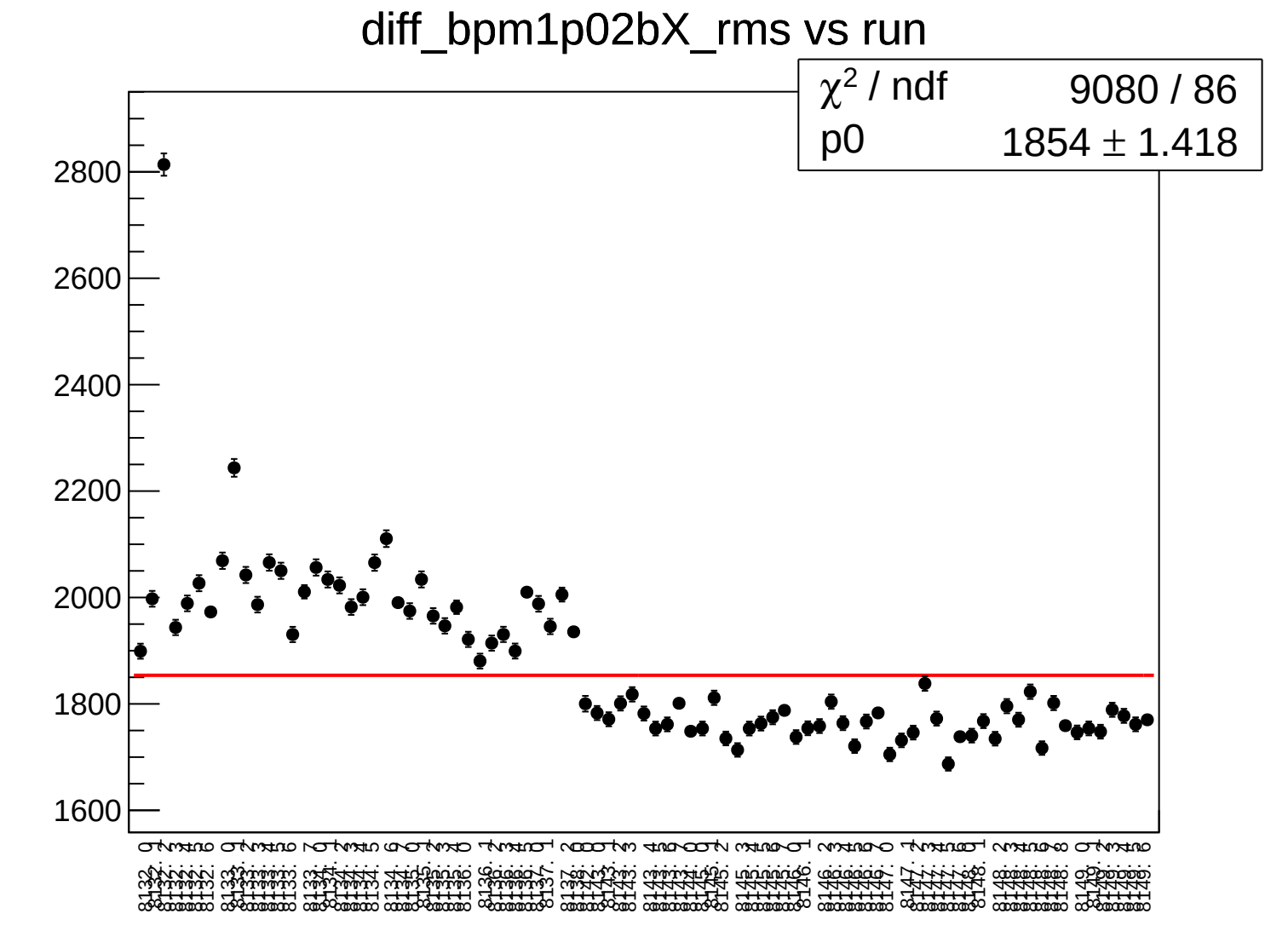

diff_bpm16Y_mean vs run
χ² / ndf 106.9 / 86
p0 −4.041 ± 2.86
150
100
50
0
−50
−100
pull
Entries 87
Mean 297.5
Std Dev 0
4
3
2
1
0
−1
−2
−3

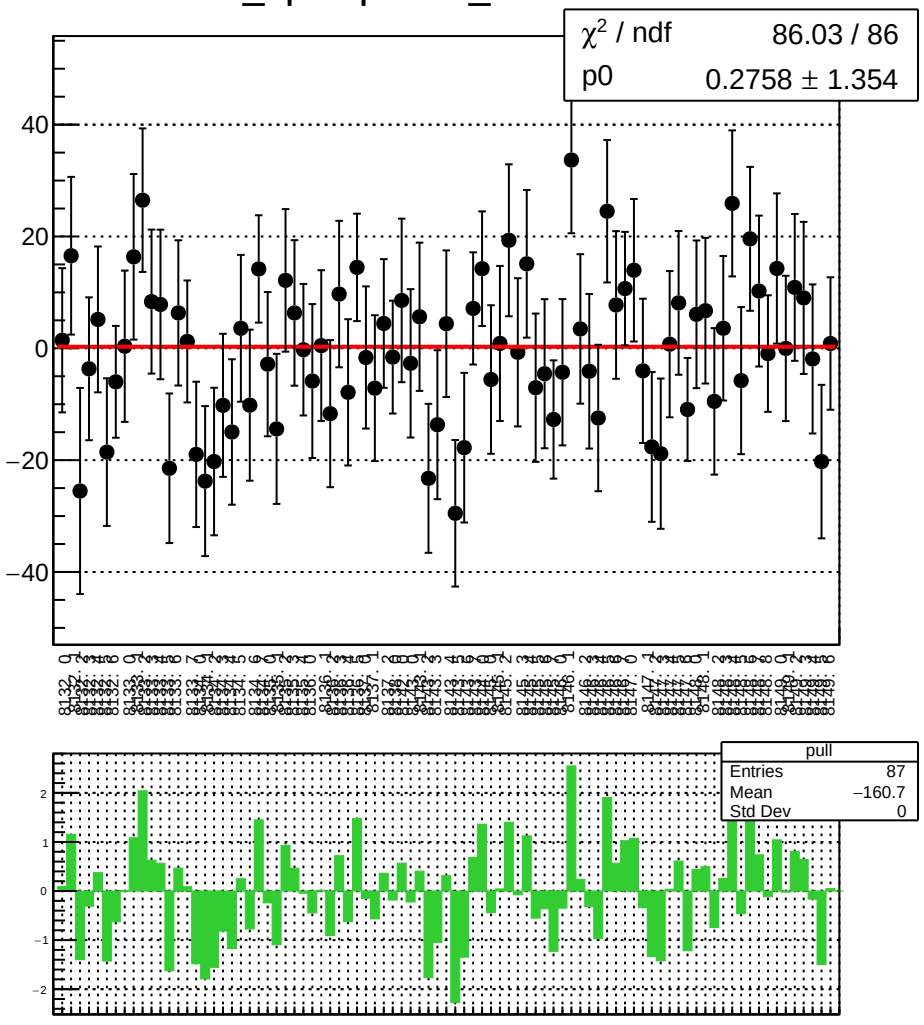

pull1D
Entries 87
Mean 0.0235
Std Dev 1.108
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

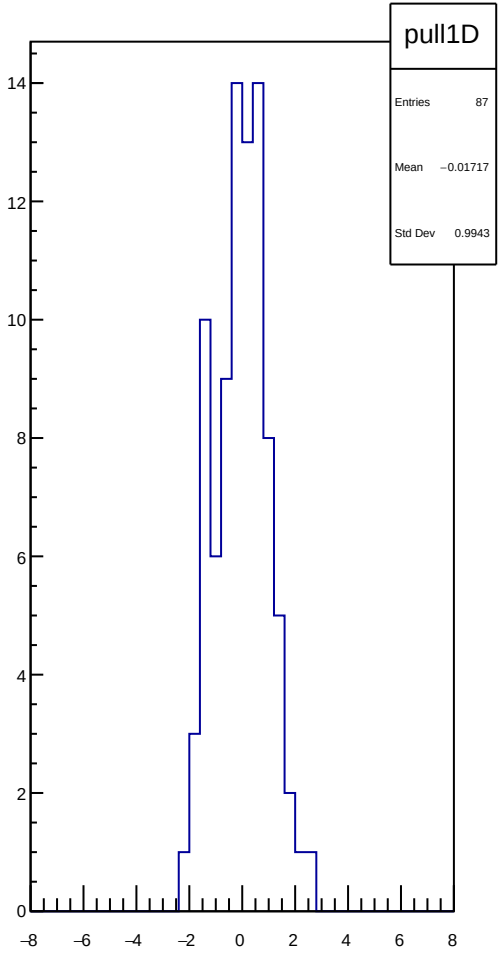

diff_bpm16Y_rms vs run
χ² / ndf 1.949e+04 / 86
p0 2637 ± 2.023
3400
3200
3000
2800
2600
2400
2200

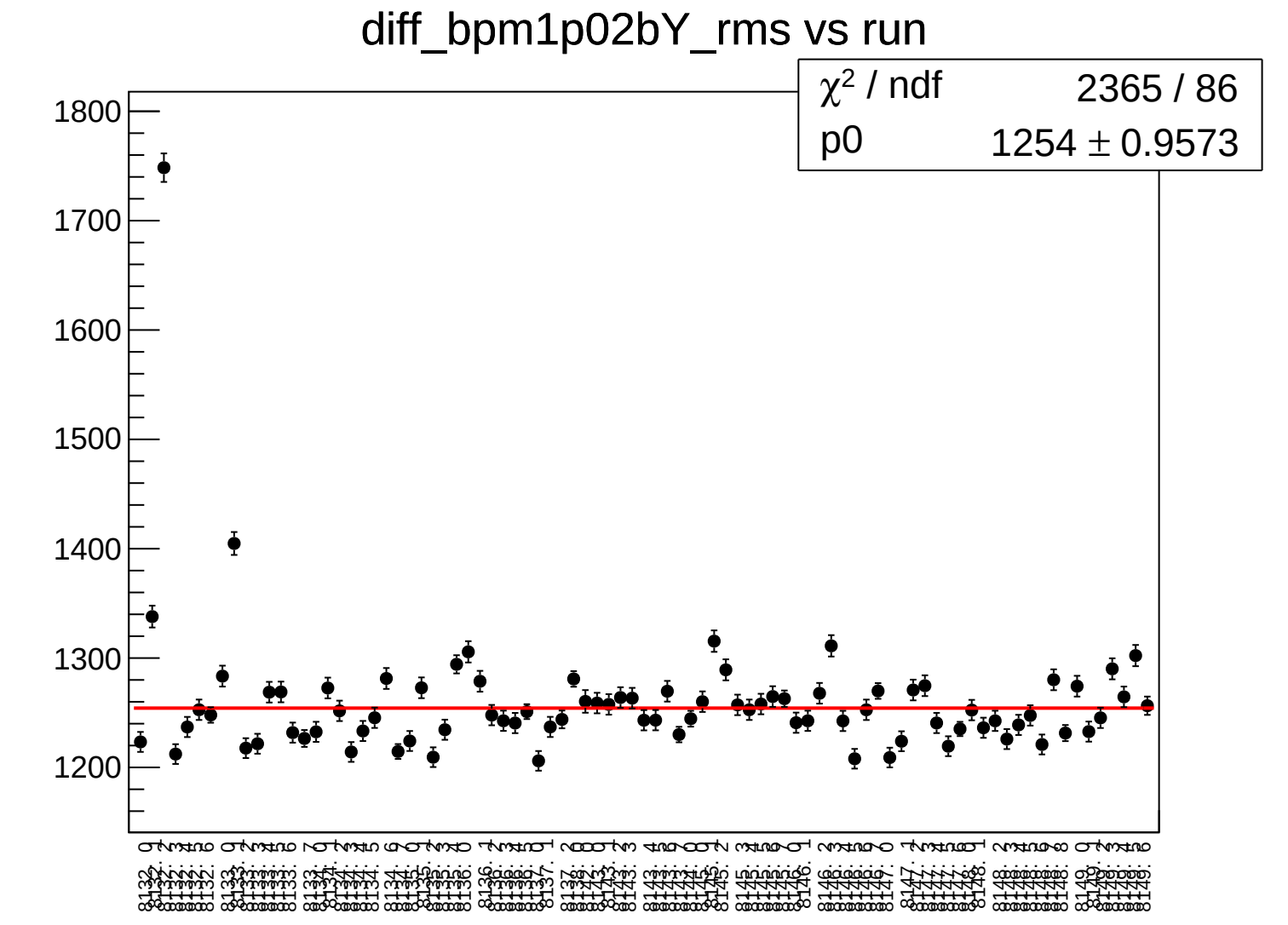

diff_bpm1p02bX_mean vs run
χ² / ndf 94.86 / 86
p0 1.024 ± 2.005
pull
Entries 87
Mean 2092
Std Dev 0

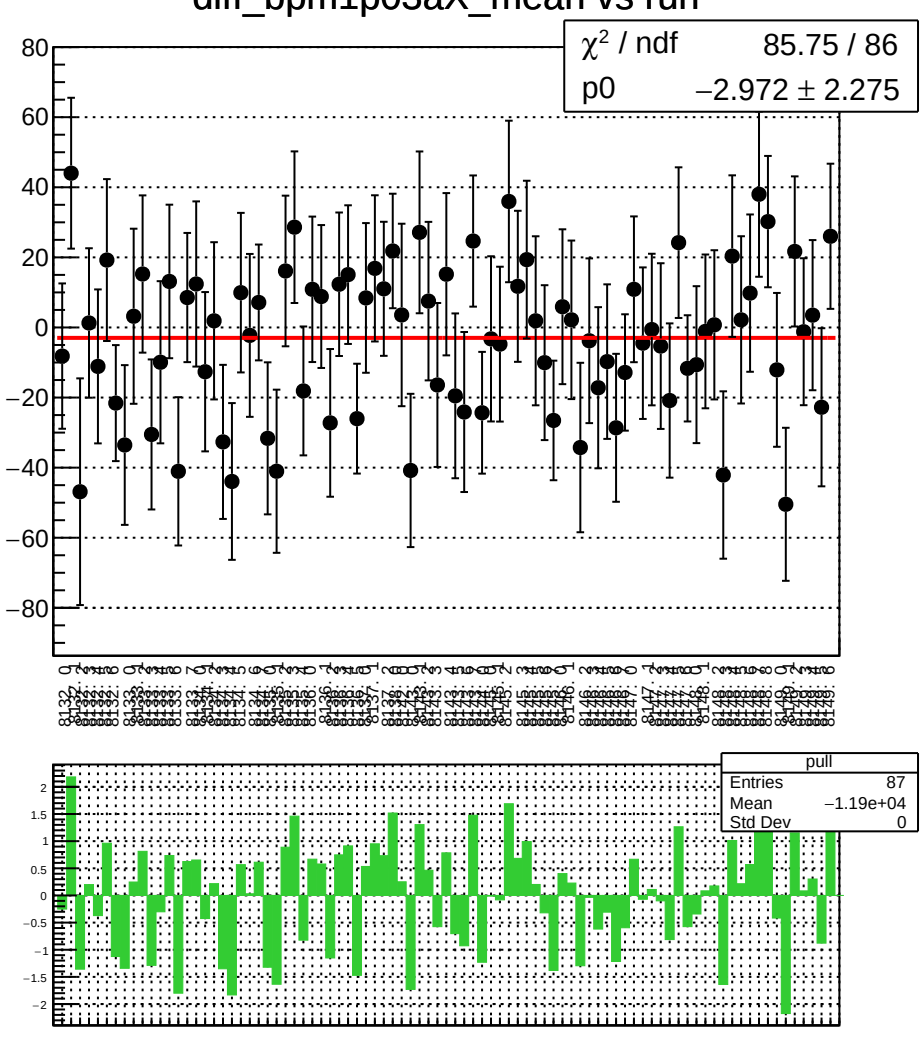

pull1D
Entries 87
Mean −0.001678
Std Dev 1.044

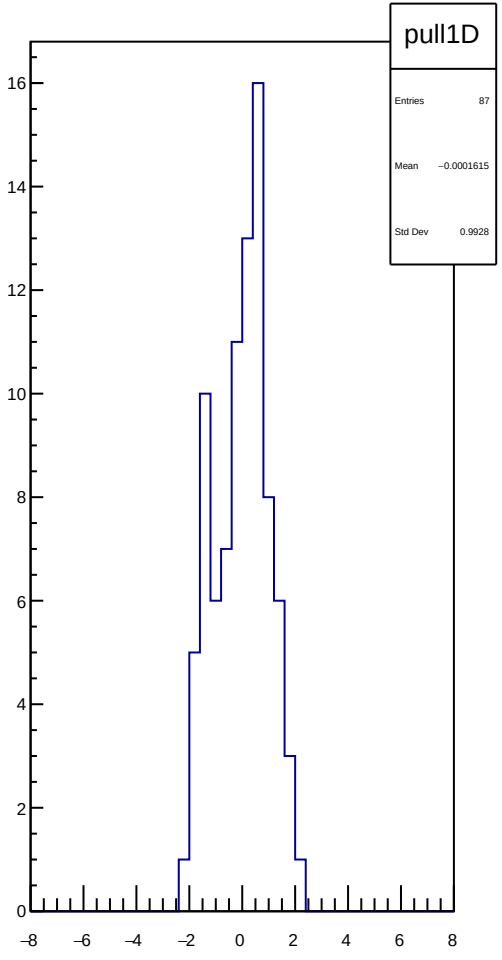

diff_bpm1p02bX_rms vs run
χ² / ndf 9080 / 86
p0 1854 ± 1.418
2800
2600
2400
2200
2000
1800
1600

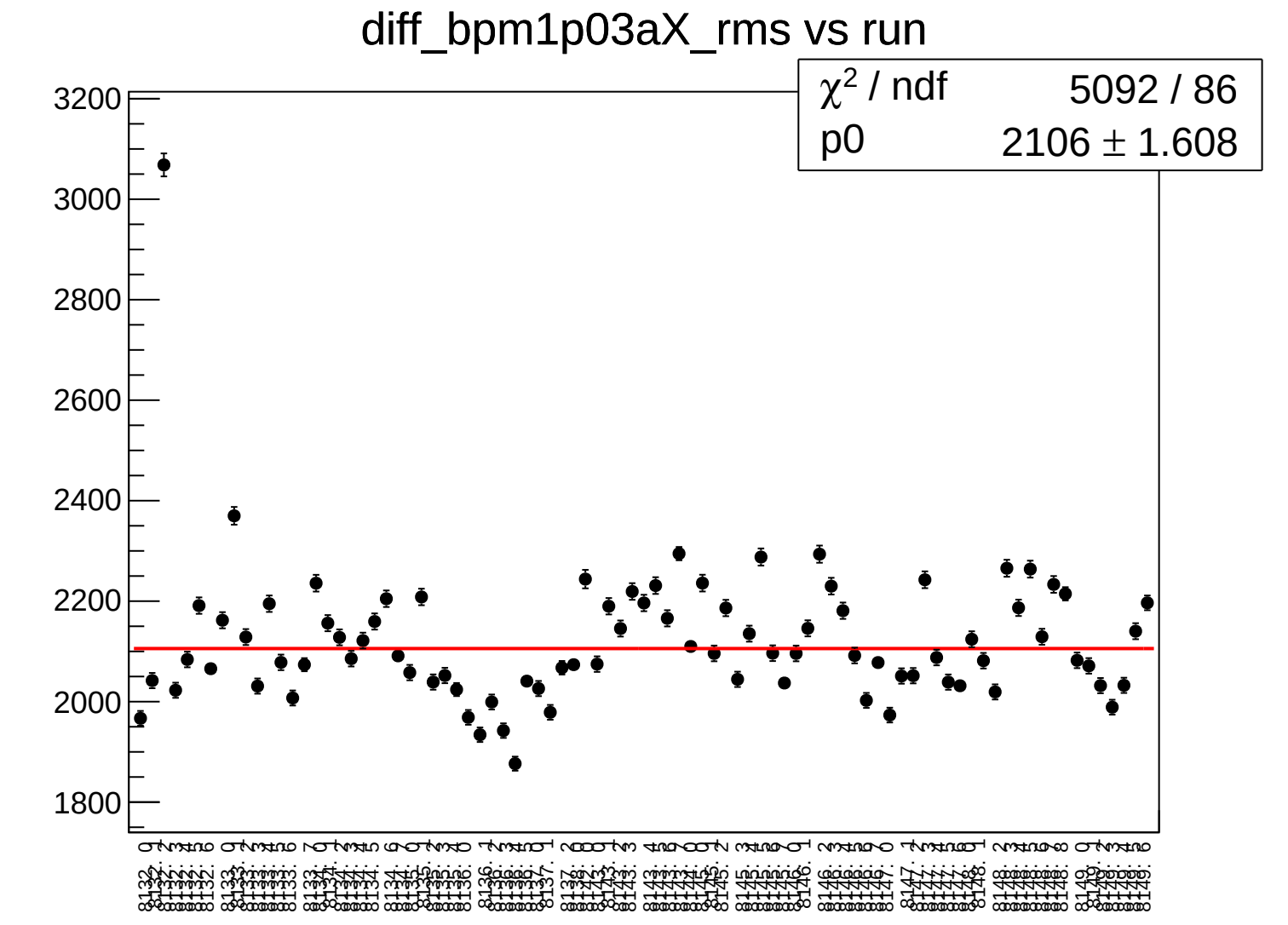

diff_bpm1p02bY_mean vs run
χ² / ndf 86.03 / 86
p0 0.2758 ± 1.354
pull
Entries 87
Mean −160.7
Std Dev 0

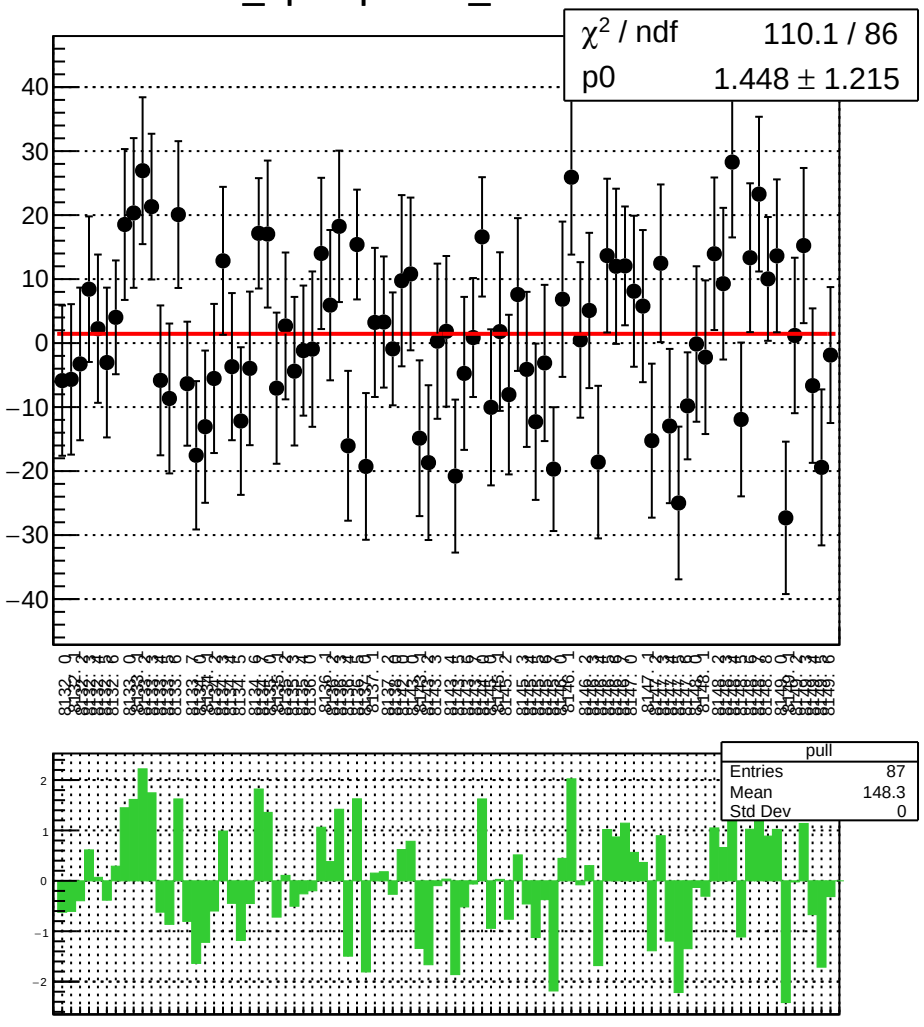

pull1D
Entries 87
Mean −0.01717
Std Dev 0.9943

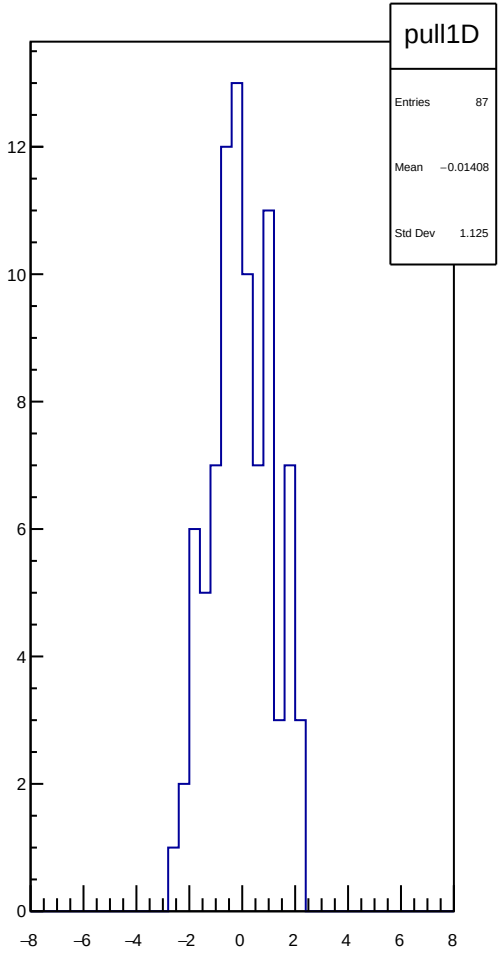

diff_bpm1p02bY_rms vs run
χ² / ndf 2365 / 86
p0 1254 ± 0.9573
1800
1700
1600
1500
1400
1300
1200

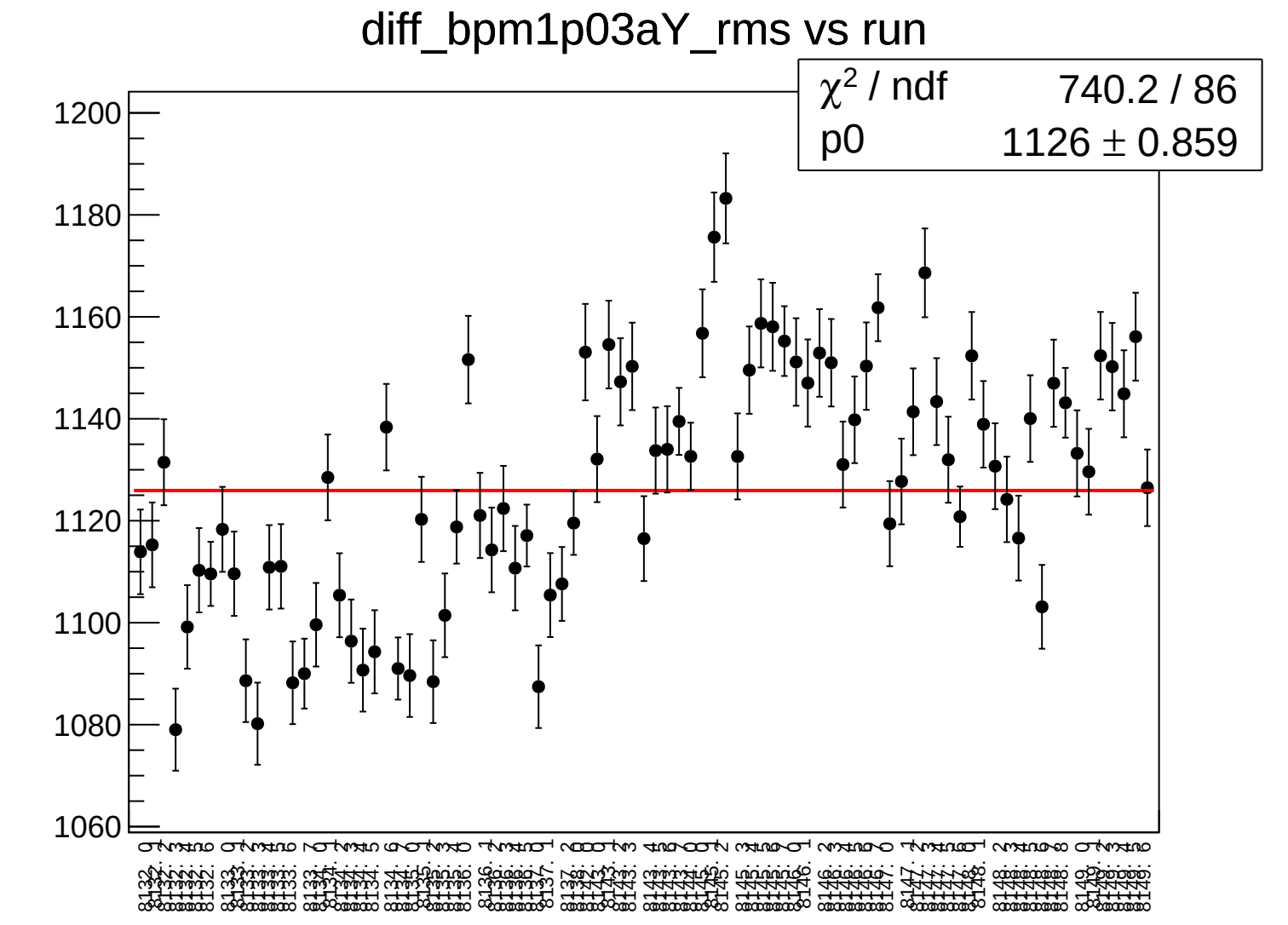

diff_bpm1p03aX_mean vs run
χ² / ndf 85.75 / 86
p0 −2.972 ± 2.275
pull
Entries 87
Mean −1.19e+04
Std Dev 0

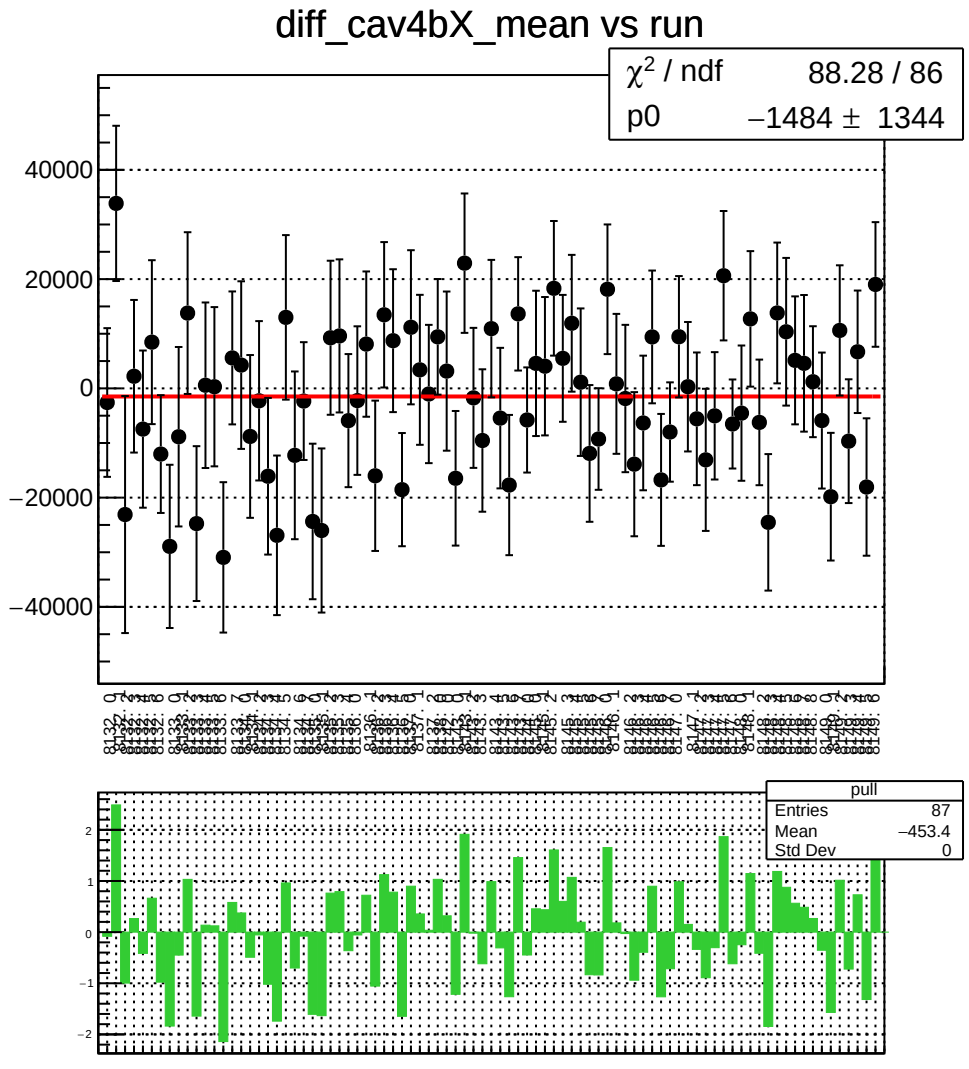

pull1D
Entries 87
Mean −0.0001615
Std Dev 0.9928

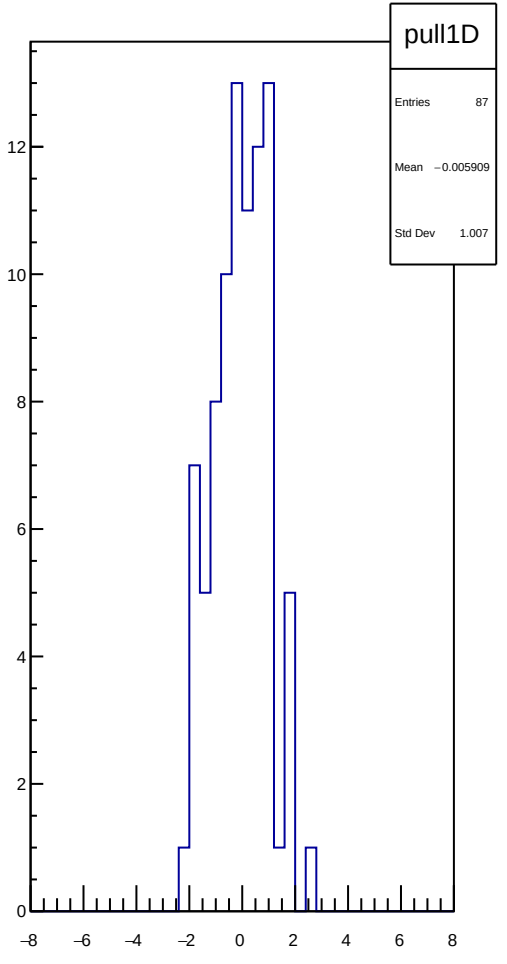

diff_bpm1p03aX_rms vs run
χ² / ndf 5092 / 86
p0 2106 ± 1.608
3200
3000
2800
2600
2400
2200
2000
1800

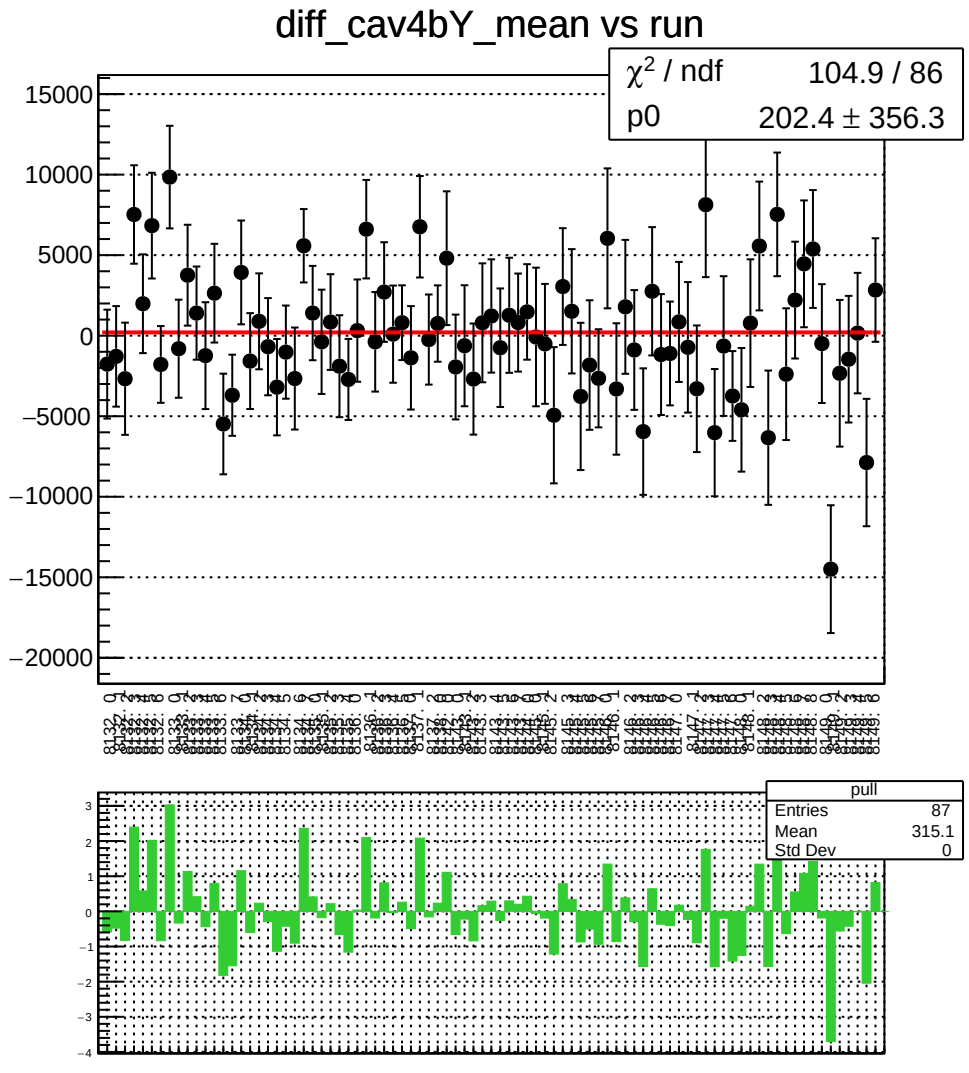

diff_bpm1p03aY_mean vs run
χ² / ndf 110.1 / 86
p0 1.448 ± 1.215
pull
Entries 87
Mean 148.3
Std Dev 0

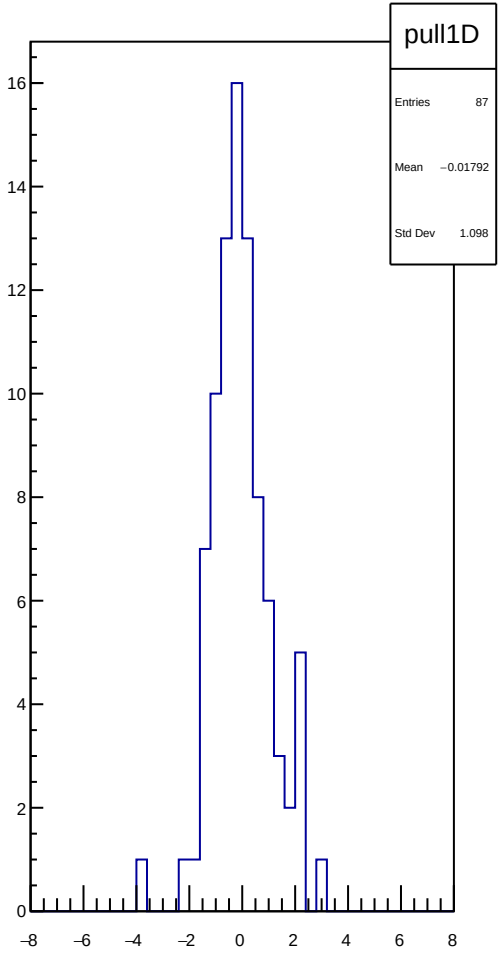

pull1D
Entries 87
Mean −0.01408
Std Dev 1.125

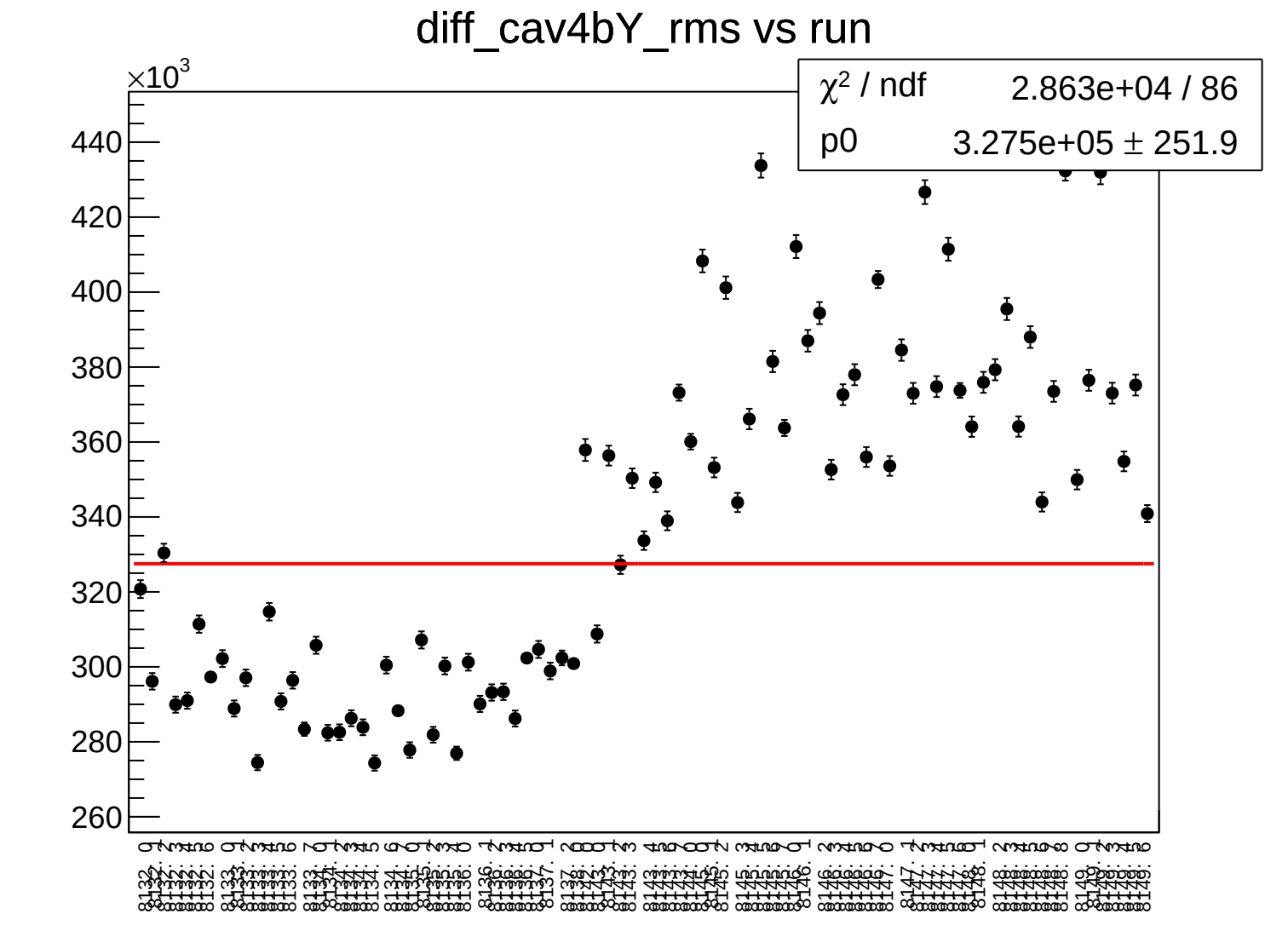

diff_bpm1p03aY_rms vs run
χ² / ndf 740.2 / 86
p0 1126 ± 0.859
1200
1180
1160
1140
1120
1100
1080
1060

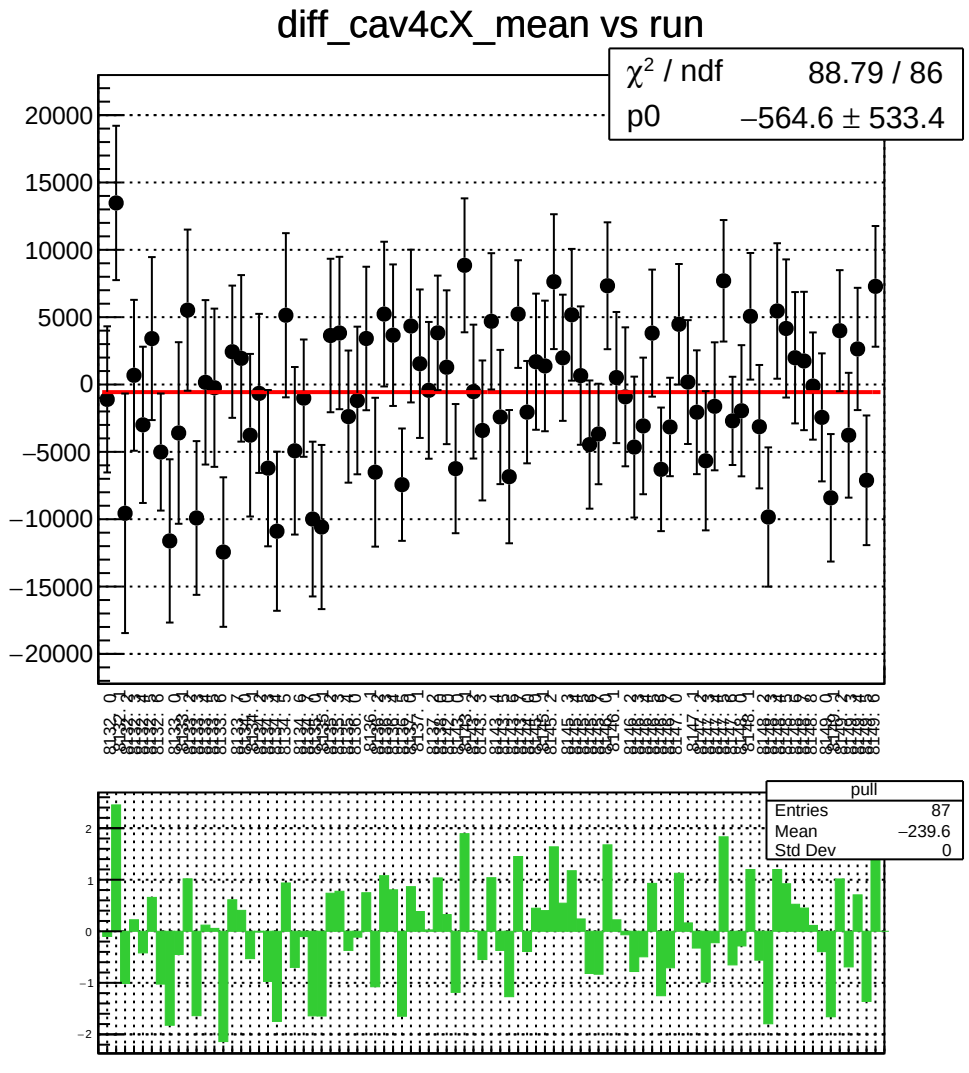

diff_cav4bX_mean vs run
χ² / ndf 88.28 / 86
p0 −1484 ± 1344
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −453.4
Std Dev 0
2
1
0
−1
−2

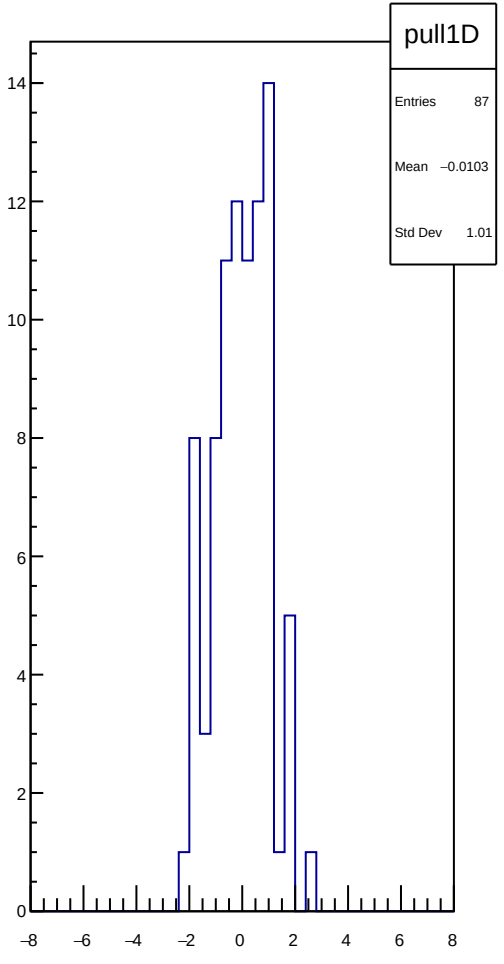

pull1D
Entries 87
Mean −0.005909
Std Dev 1.007
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

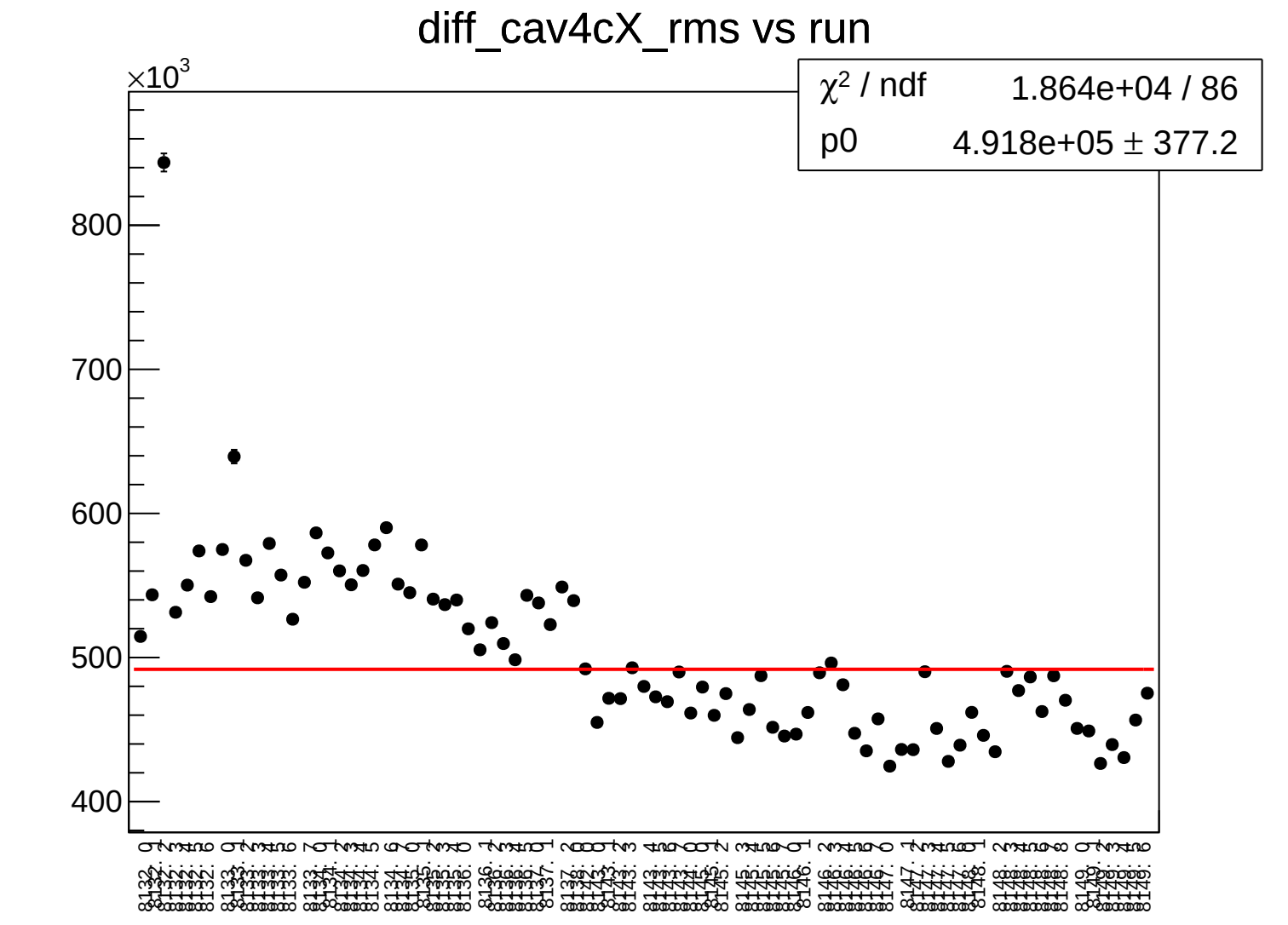

diff_cav4bY_mean vs run
χ² / ndf 104.9 / 86
p0 202.4 ± 356.3
pull
Entries 87
Mean 315.1
Std Dev 0

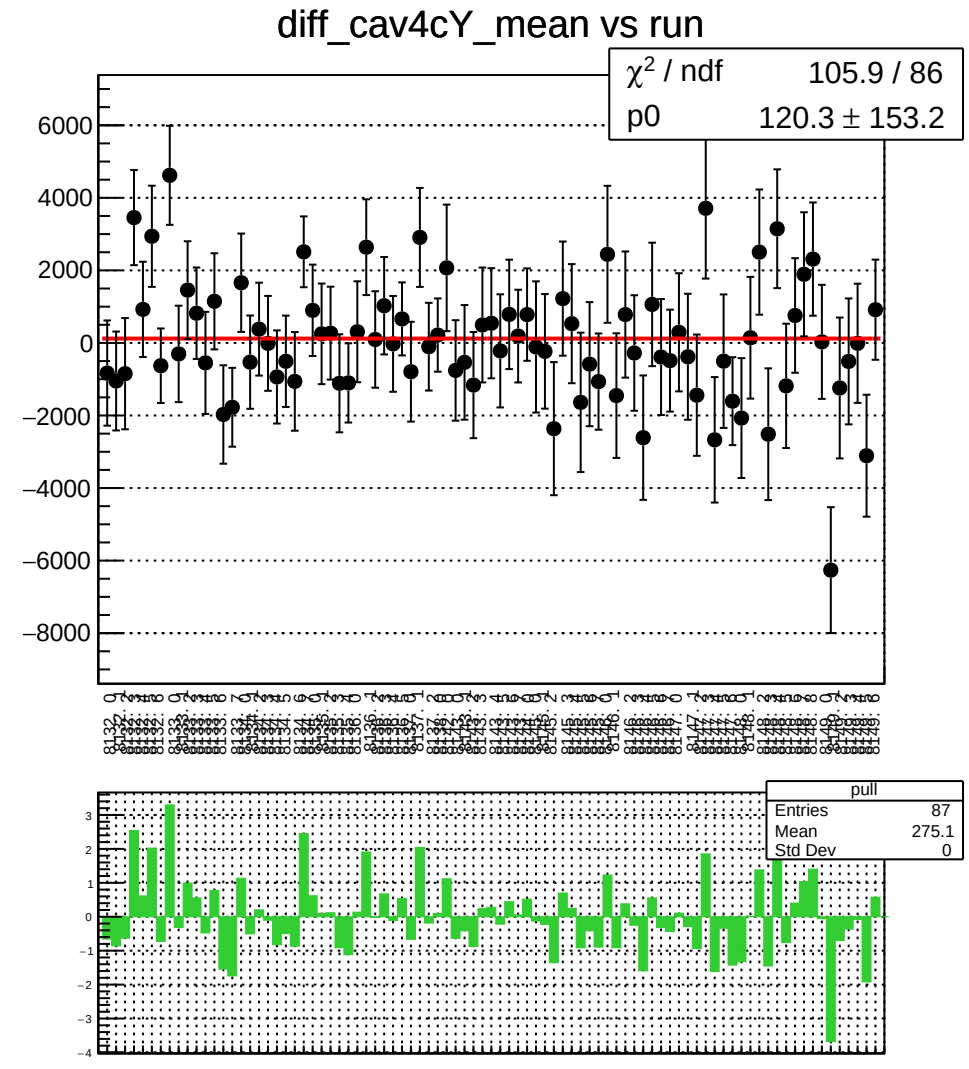

pull1D
Entries 87
Mean −0.01792
Std Dev 1.098

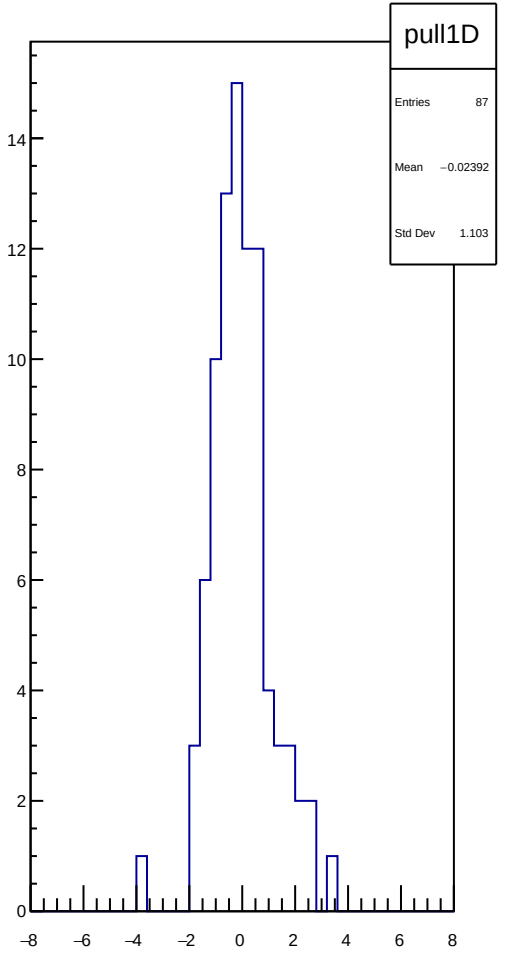

diff_cav4bY_rms vs run
×10^3
440
420
400
380
360
340
320
300
280
260
χ² / ndf 2.863e+04 / 86
p0 3.275e+05 ± 251.9

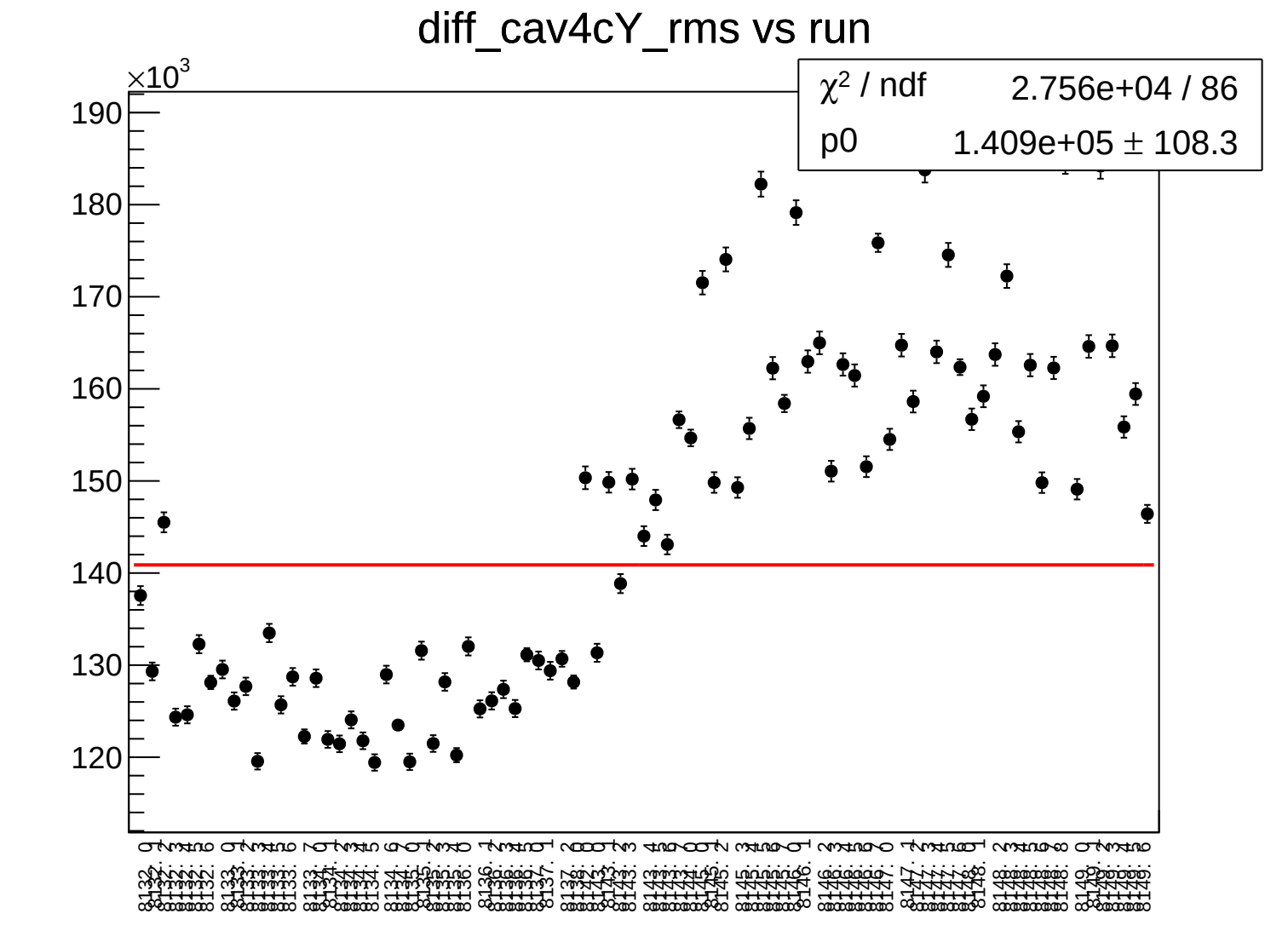

diff_cav4cX_mean vs run
χ² / ndf 88.79 / 86
p0 −564.6 ± 533.4
pull
Entries 87
Mean −239.6
Std Dev 0

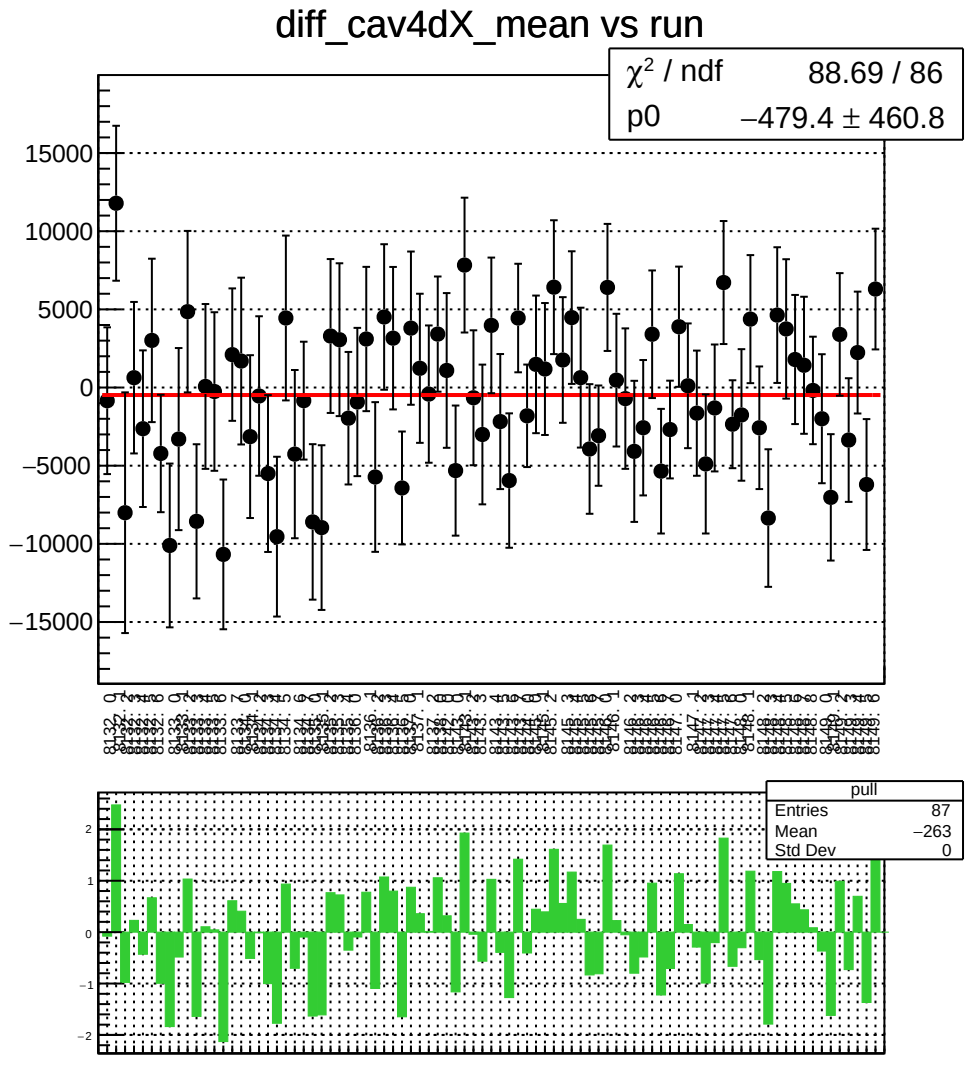

pull1D
Entries 87
Mean −0.0103
Std Dev 1.01

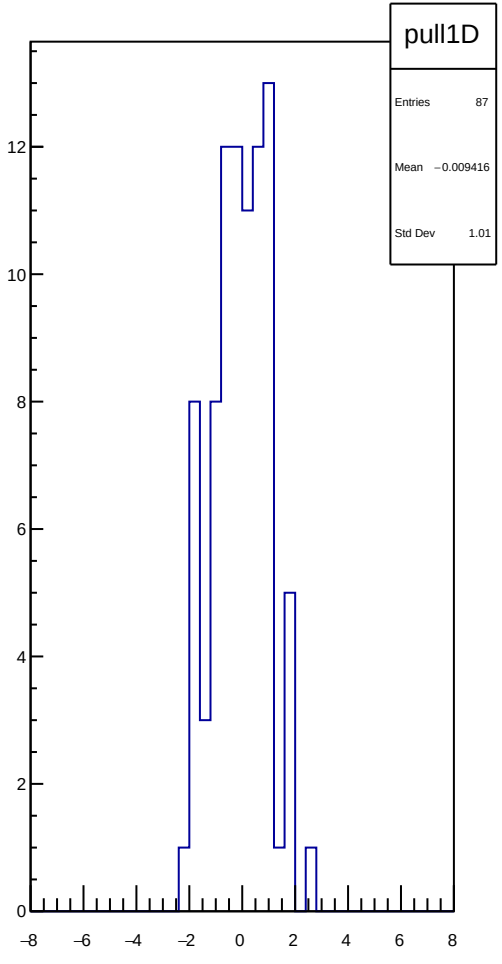

diff_cav4cX_rms vs run
×10^3
χ^2 / ndf 1.864e+04 / 86
p0 4.918e+05 ± 377.2
800
700
600
500
400

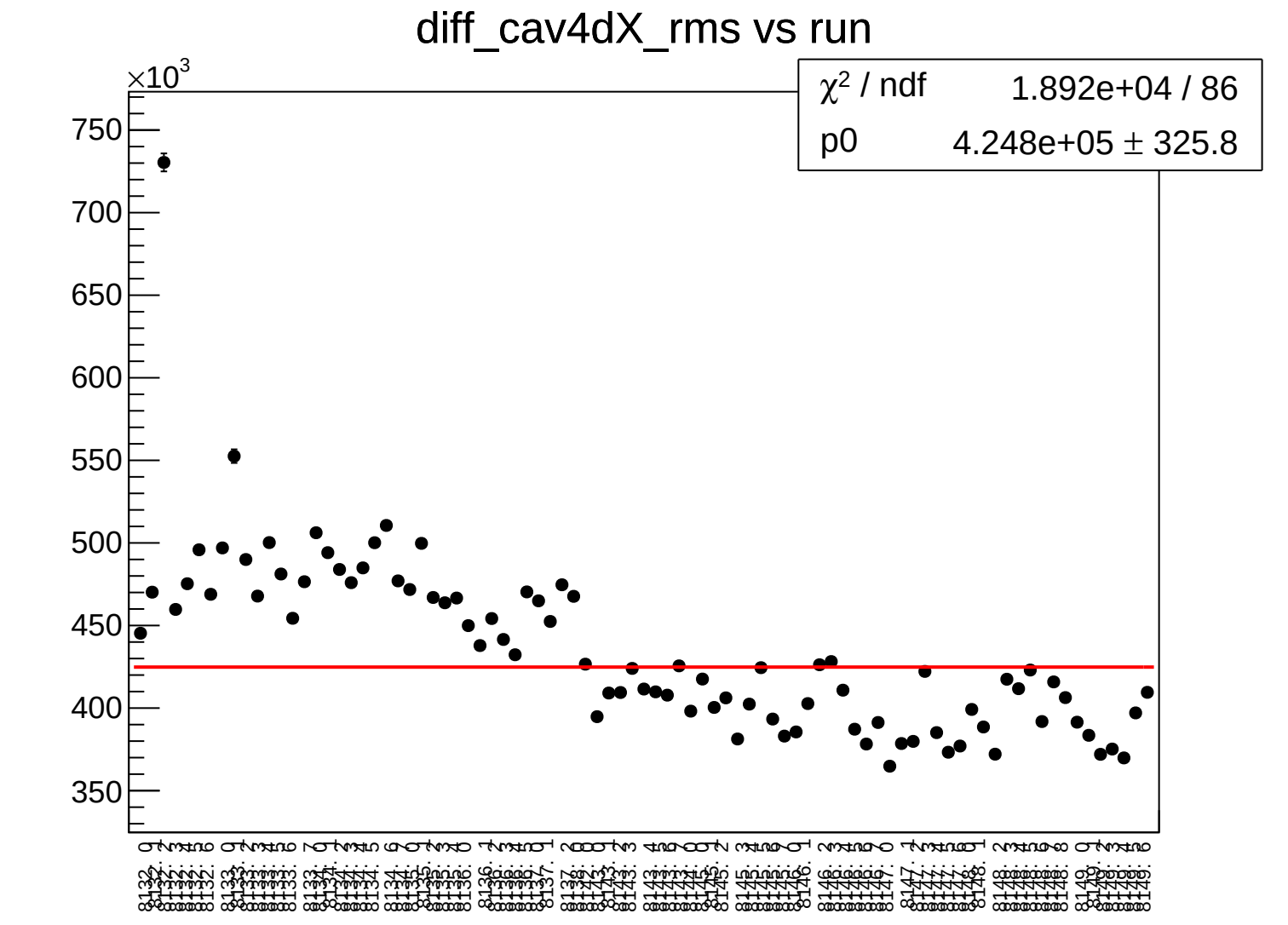

diff_cav4cY_mean vs run
χ² / ndf 105.9 / 86
p0 120.3 ± 153.2
pull
Entries 87
Mean 275.1
Std Dev 0

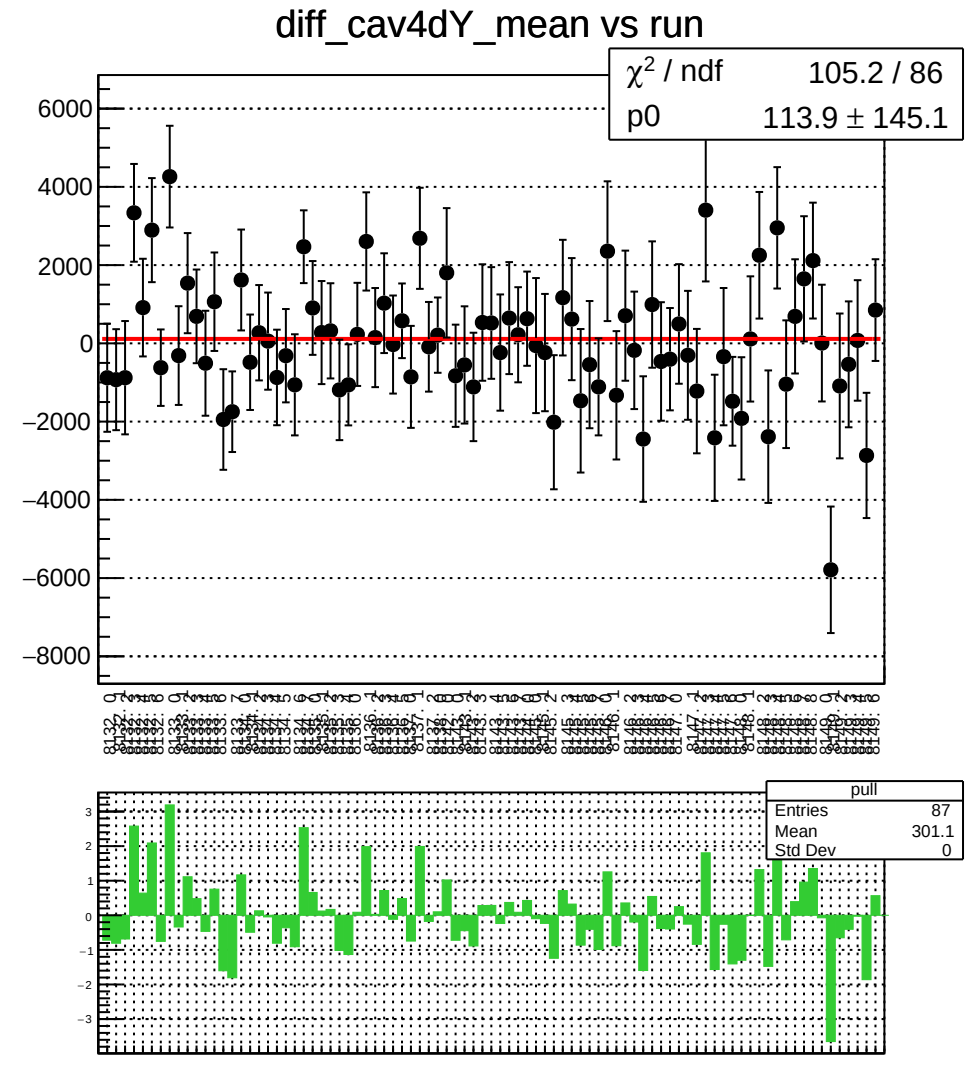

pull1D
Entries 87
Mean −0.02392
Std Dev 1.103

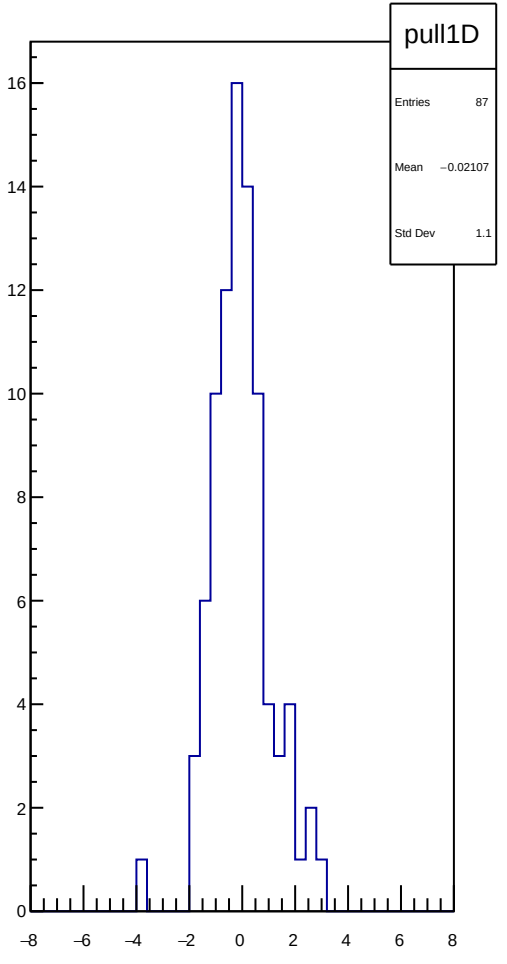

diff_cav4cY_rms vs run
×10^3
χ² / ndf 2.756e+04 / 86
p0 1.409e+05 ± 108.3
190
180
170
160
150
140
130
120

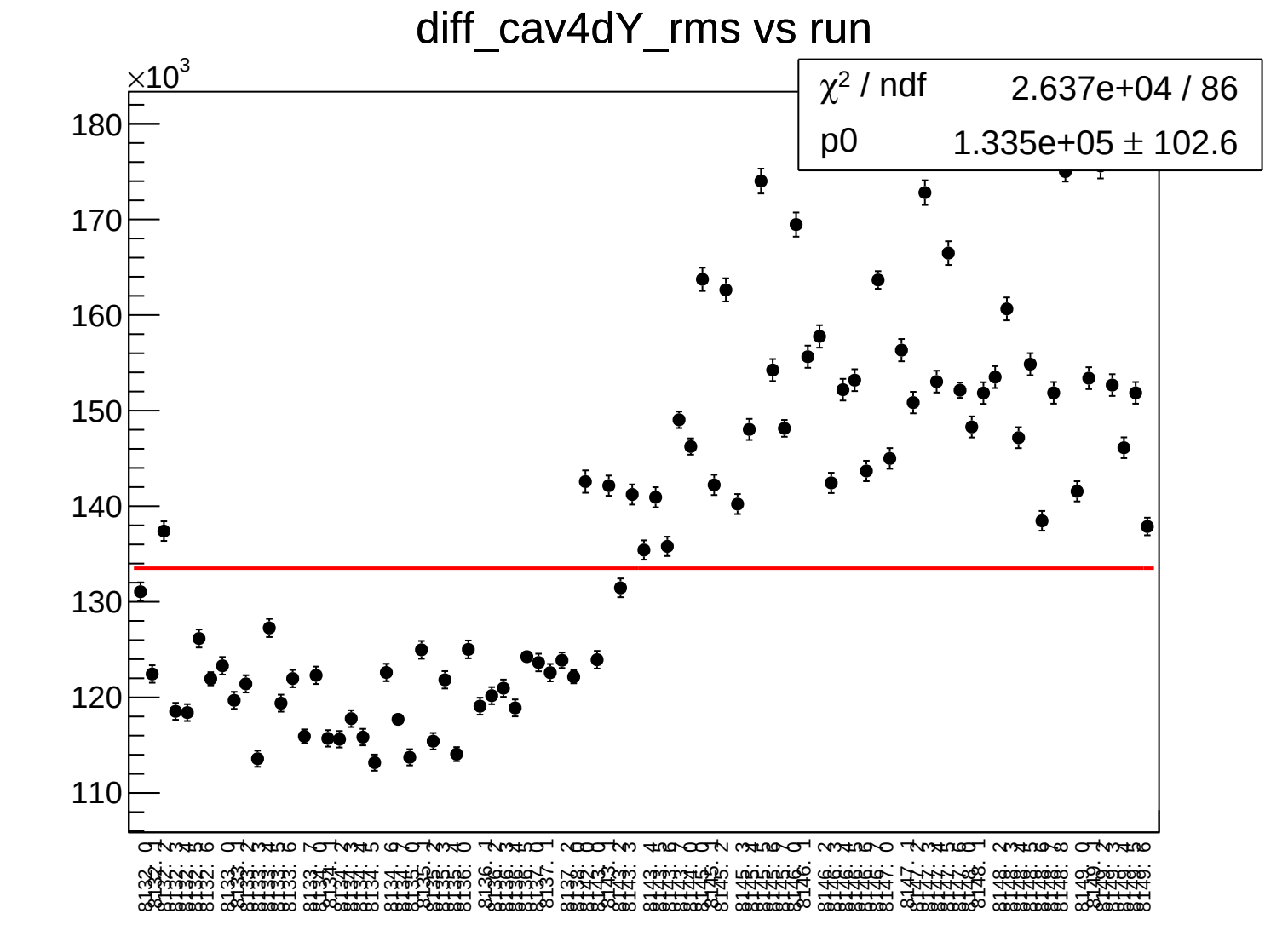

diff_cav4dX_mean vs run
χ² / ndf 88.69 / 86
p0 −479.4 ± 460.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean −263
Std Dev 0
2
1
0
−1
−2

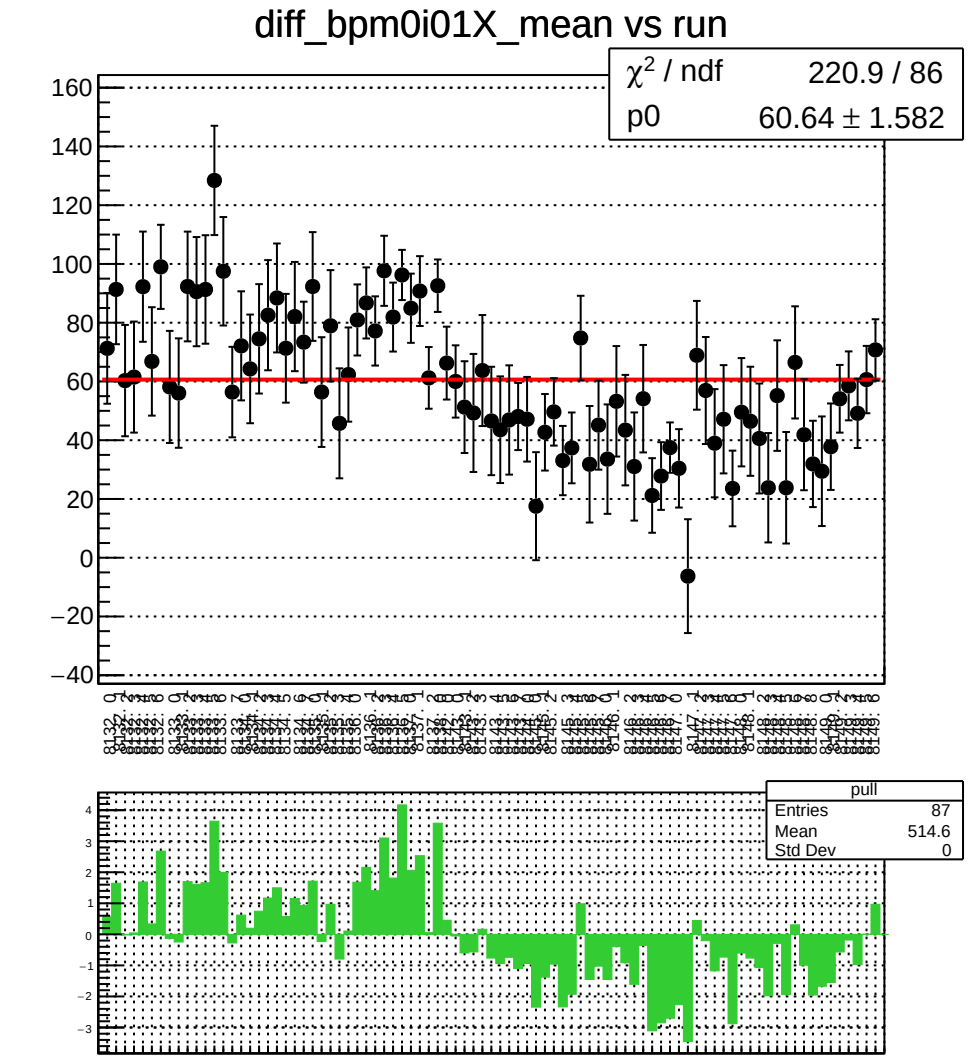

pull1D
Entries 87
Mean −0.009416
Std Dev 1.01
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

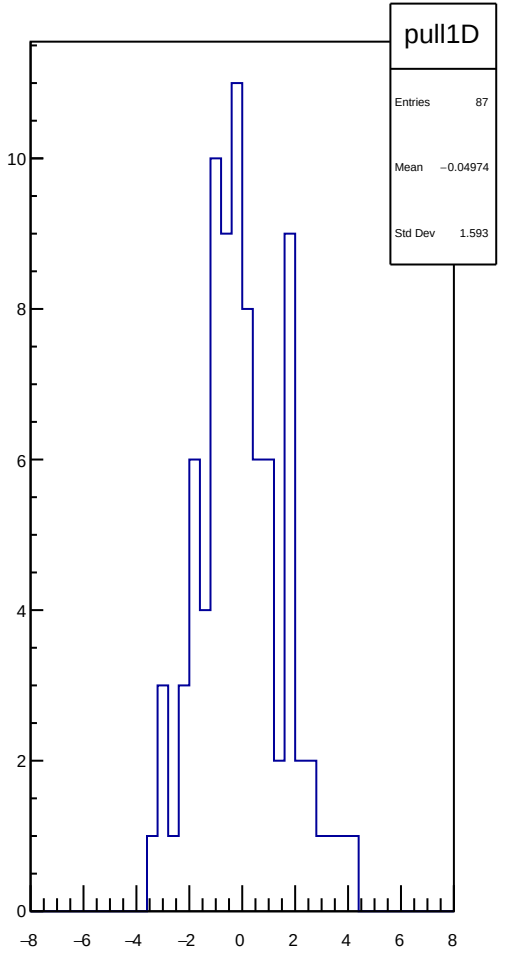

diff_cav4dX_rms vs run
×10^3
χ² / ndf 1.892e+04 / 86
p0 4.248e+05 ± 325.8
750
700
650
600
550
500
450
400
350

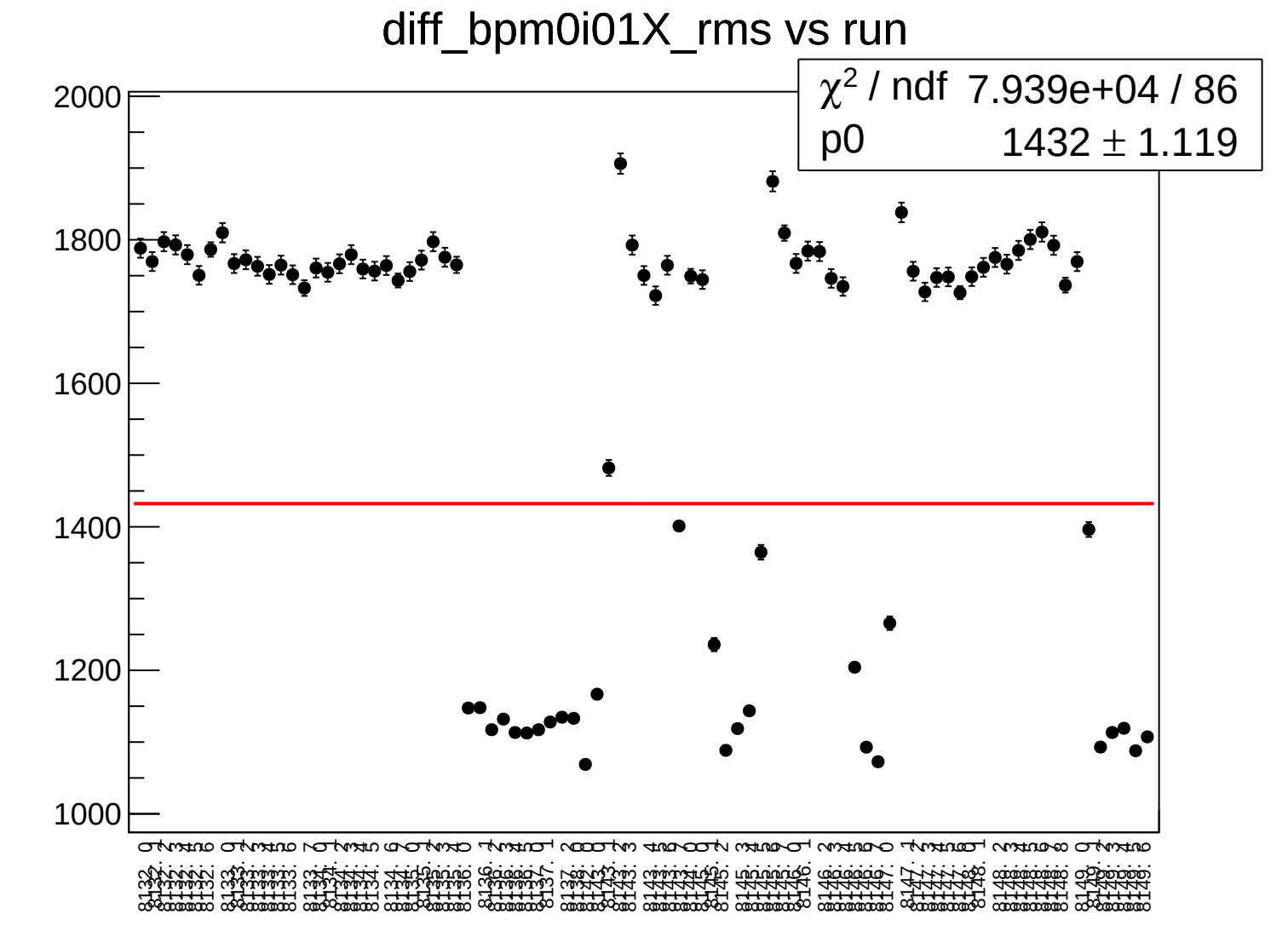

diff_cav4dY_mean vs run
χ² / ndf 105.2 / 86
p0 113.9 ± 145.1
pull
Entries 87
Mean 301.1
Std Dev 0

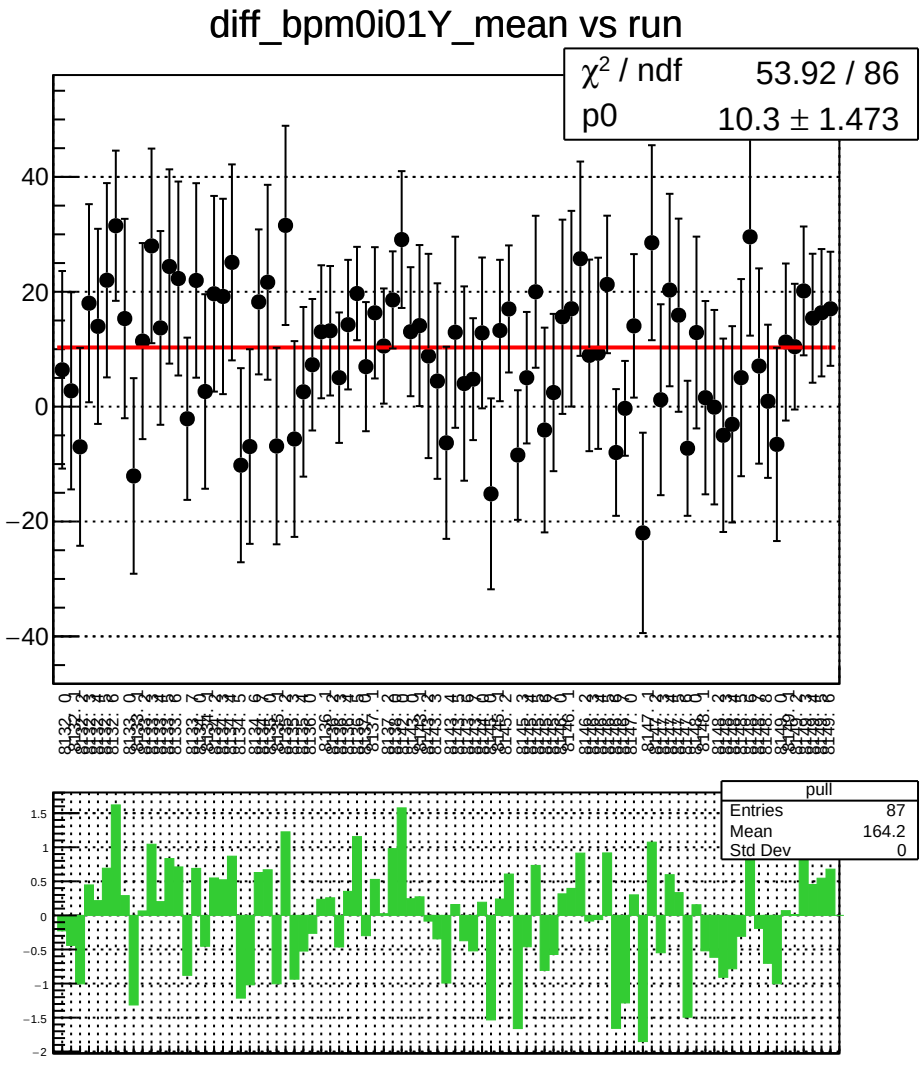

pull1D
Entries 87
Mean −0.02107
Std Dev 1.1

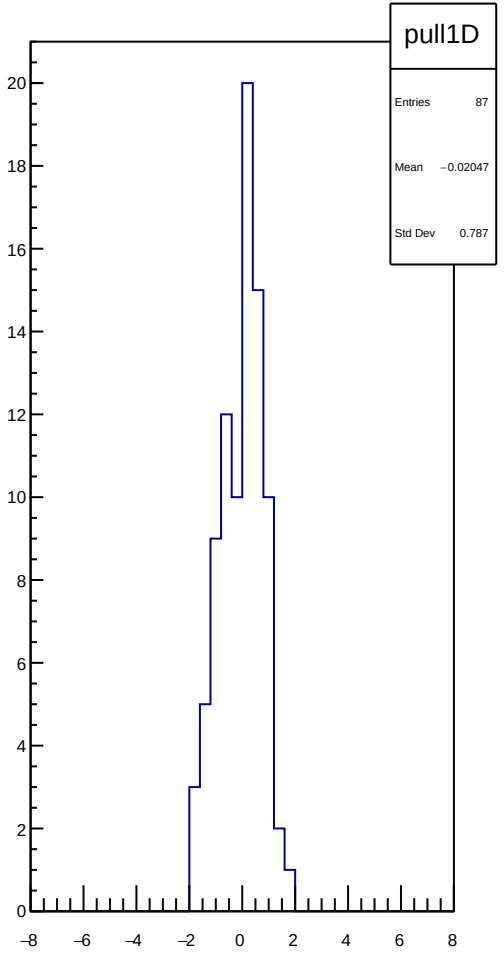

diff_cav4dY_rms vs run
×10^3
χ² / ndf 2.637e+04 / 86
p0 1.335e+05 ± 102.6
180
170
160
150
140
130
120
110

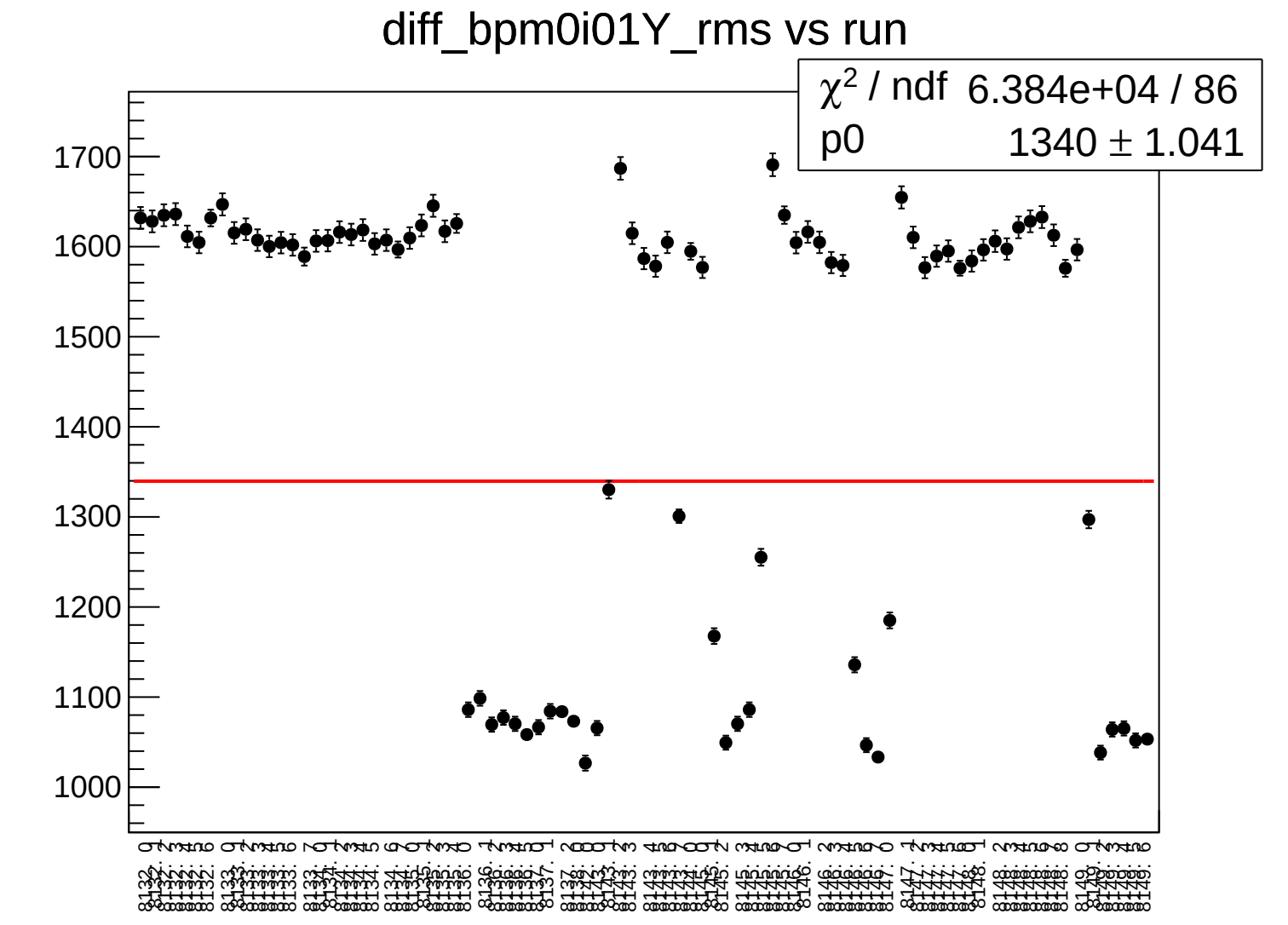

diff_bpm0i01X_mean vs run
χ² / ndf 220.9 / 86
p0 60.64 ± 1.582
pull
Entries 87
Mean 514.6
Std Dev 0

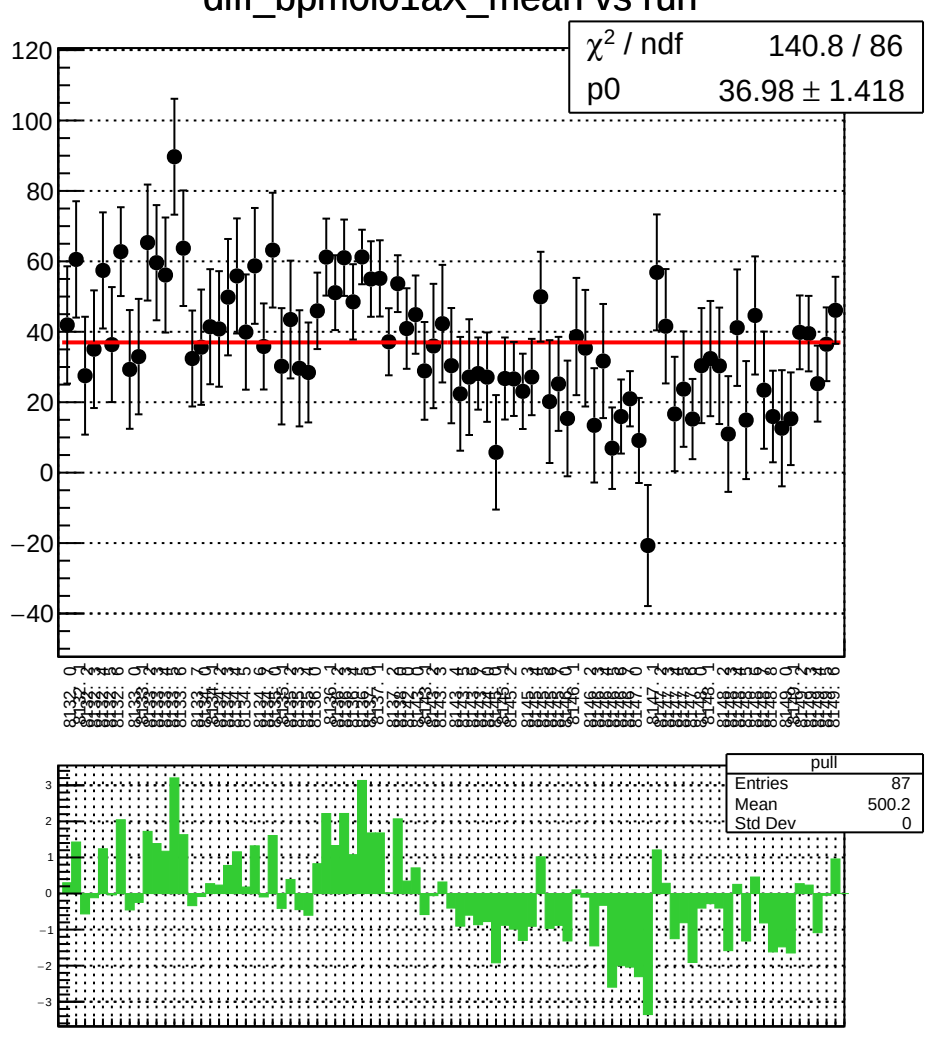

pull1D
Entries 87
Mean −0.04974
Std Dev 1.593

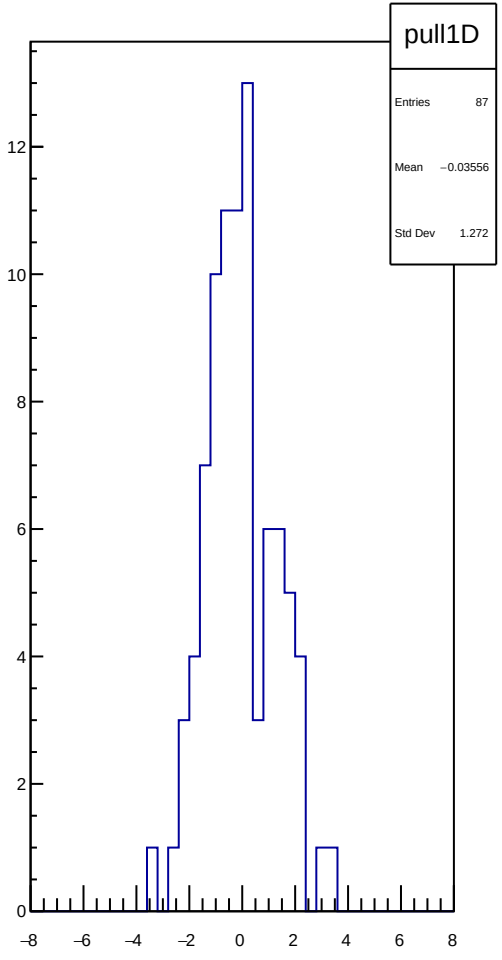

diff_bpm0i01X_rms vs run
χ² / ndf 7.939e+04 / 86
p0 1432 ± 1.119
2000
1800
1600
1400
1200
1000

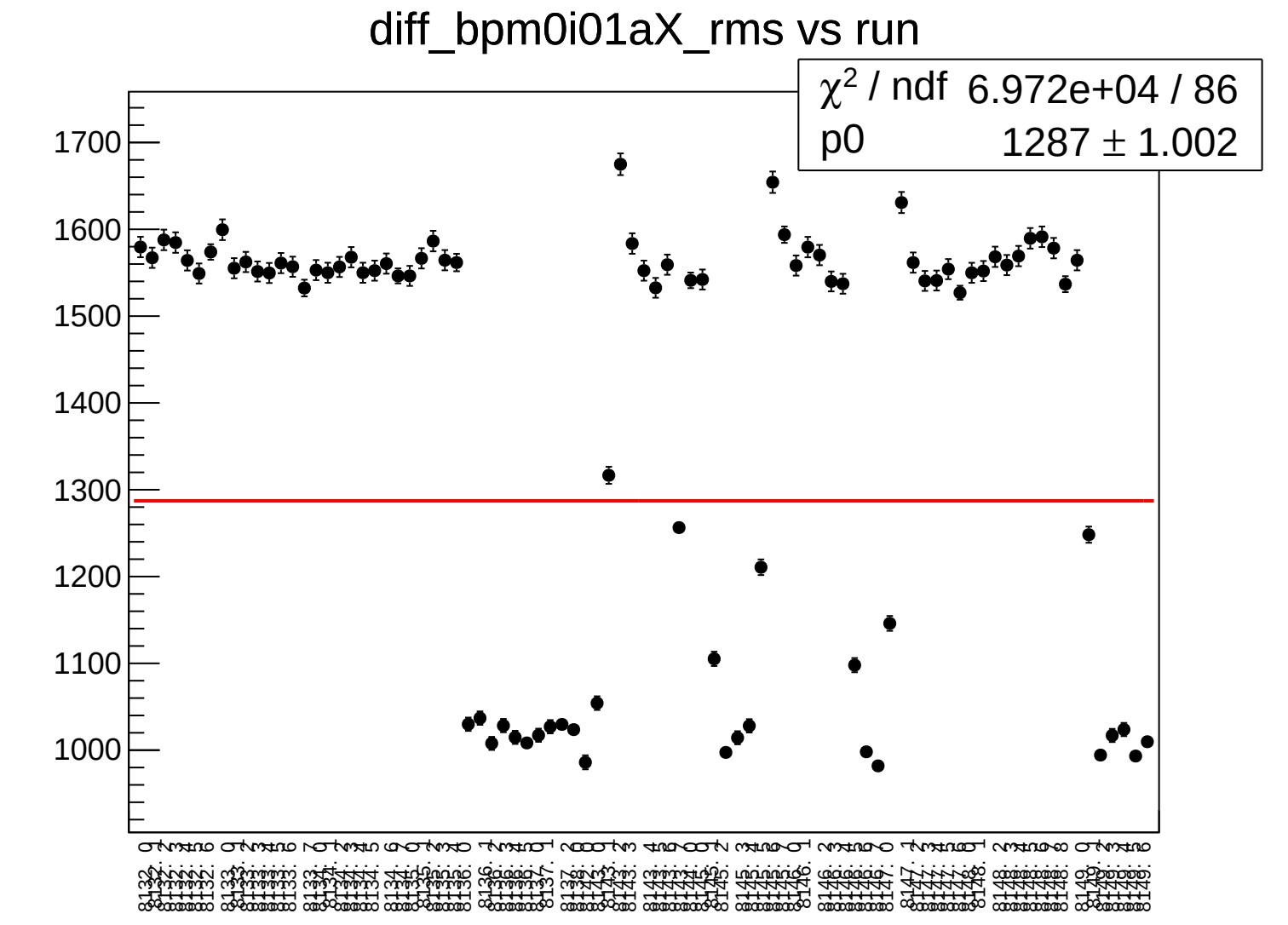

diff_bpm0i01Y_mean vs run
χ² / ndf 53.92 / 86
p0 10.3 ± 1.473
pull
Entries 87
Mean 164.2
Std Dev 0

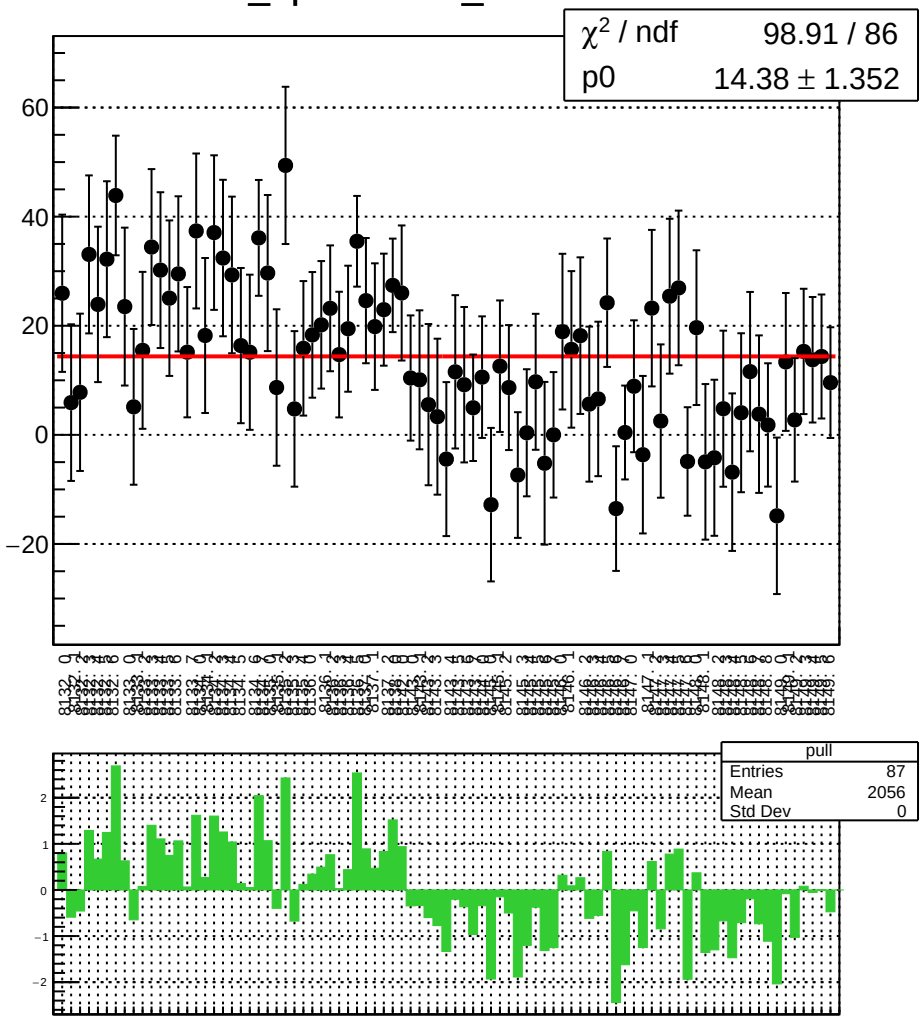

pull1D
Entries 87
Mean −0.02047
Std Dev 0.787

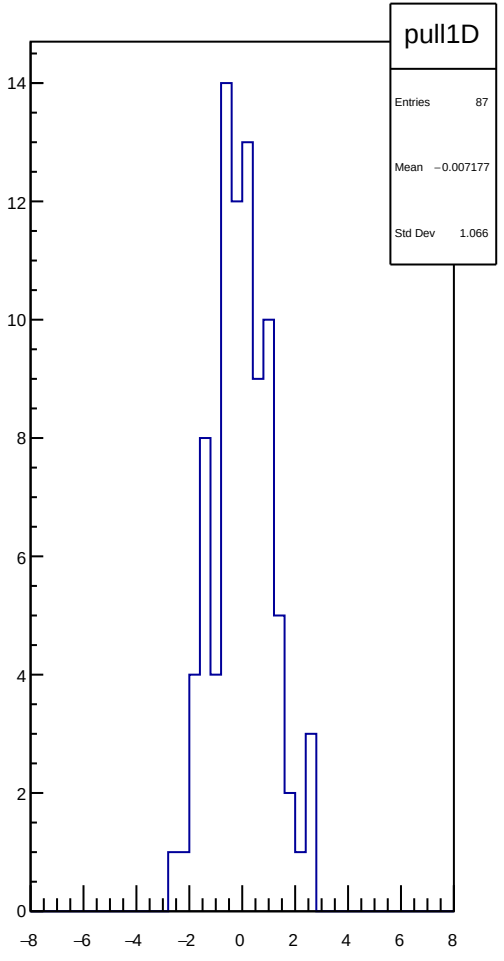

diff_bpm0i01Y_rms vs run
χ² / ndf 6.384e+04 / 86
p0 1340 ± 1.041
1700
1600
1500
1400
1300
1200
1100
1000

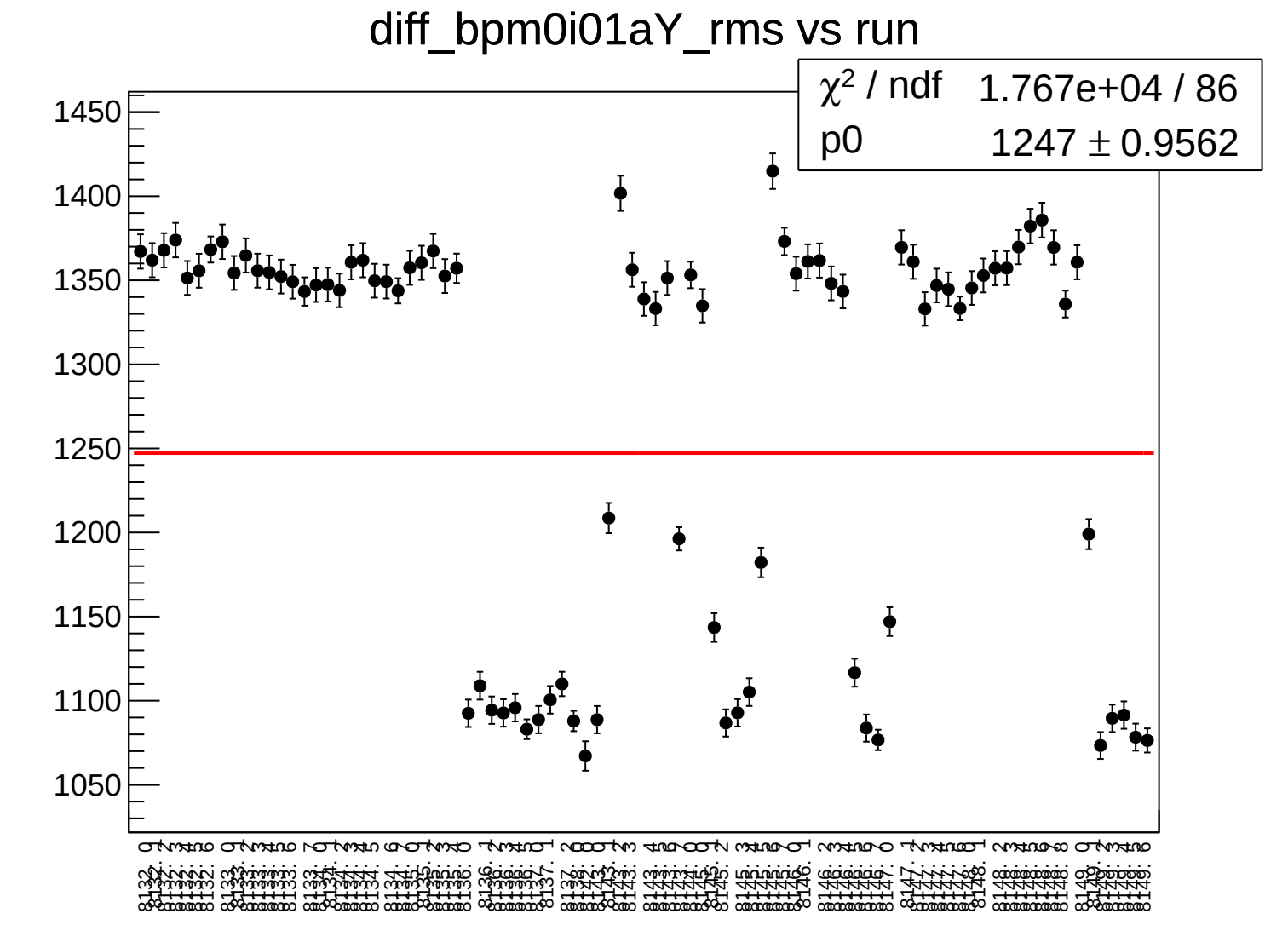

diff_bpm0i01aX_mean vs run
χ^2 / ndf 140.8 / 86
p0 36.98 ± 1.418
pull
Entries 87
Mean 500.2
Std Dev 0

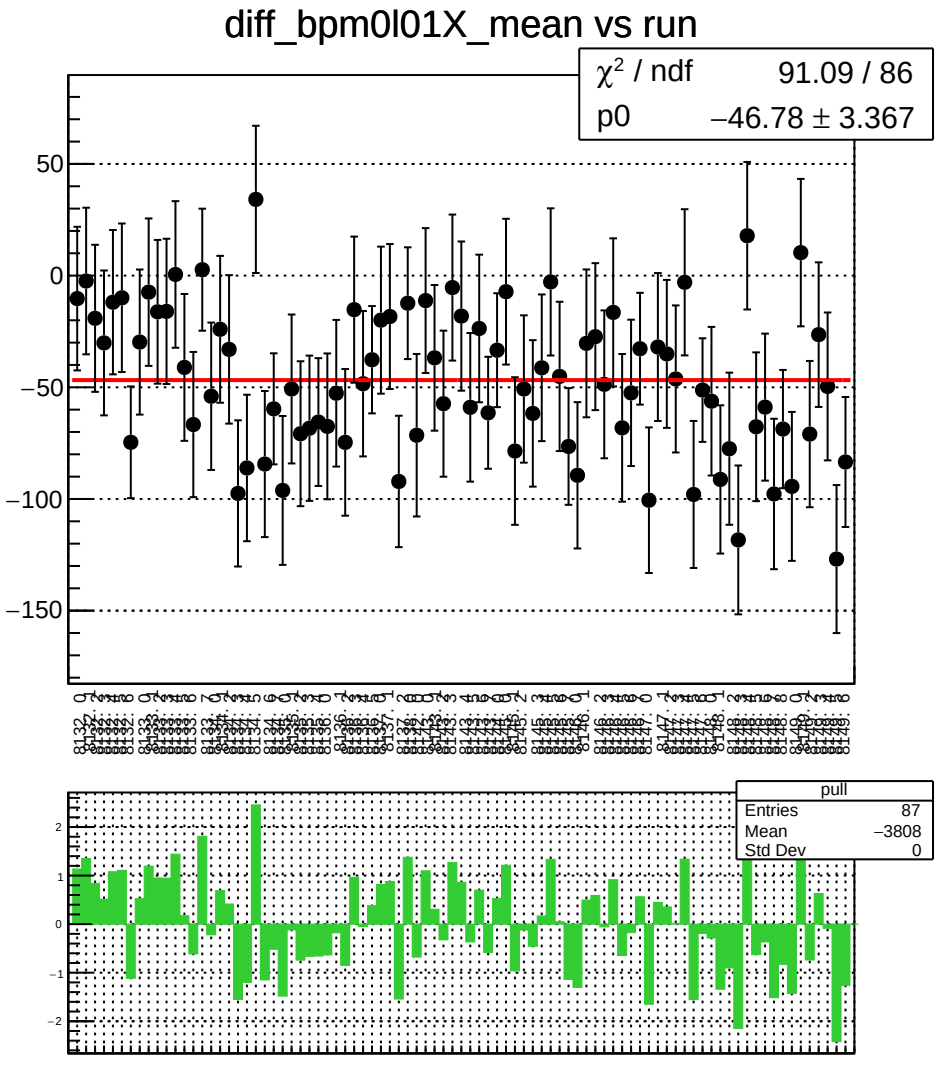

pull1D
Entries 87
Mean −0.03556
Std Dev 1.272

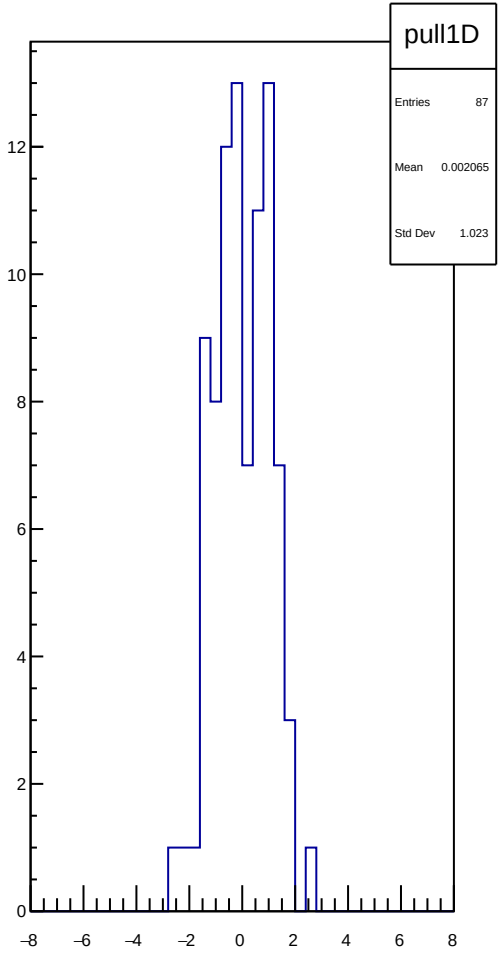

diff_bpm0i01aX_rms vs run
χ² / ndf 6.972e+04 / 86
p0 1287 ± 1.002
1700
1600
1500
1400
1300
1200
1100
1000

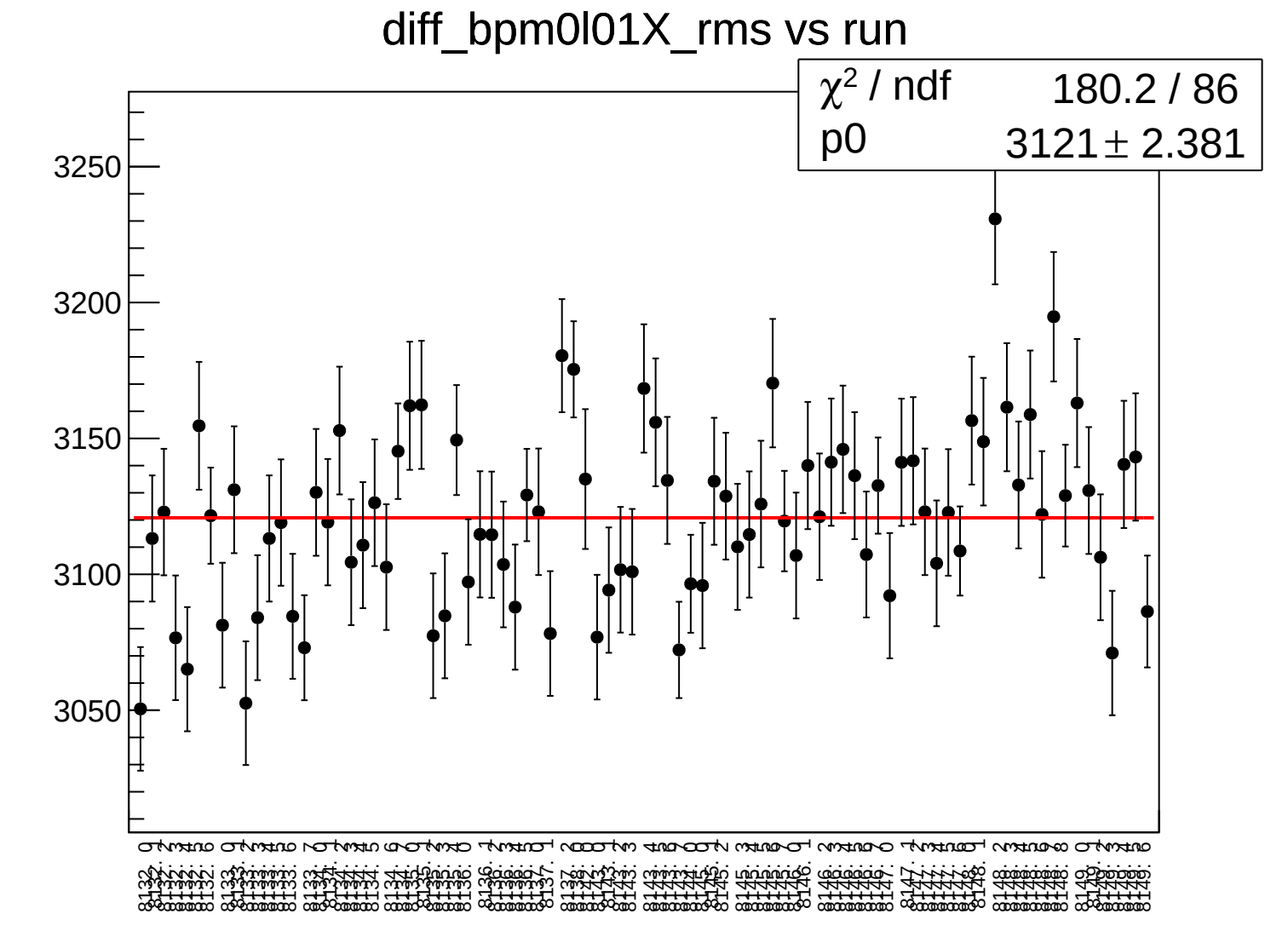

diff_bpm0i01aY_mean vs run
χ² / ndf 98.91 / 86
p0 14.38 ± 1.352
pull
Entries 87
Mean 2056
Std Dev 0

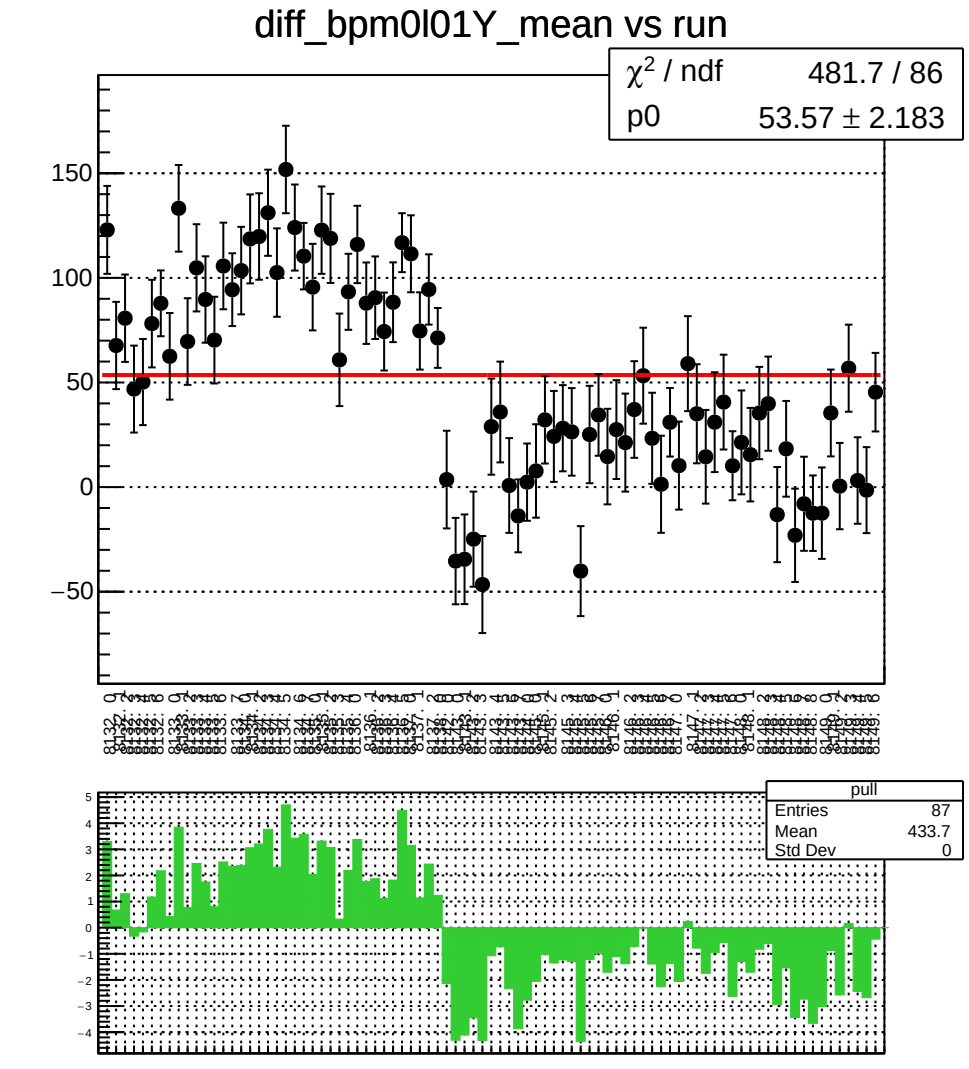

pull1D
Entries 87
Mean −0.007177
Std Dev 1.066

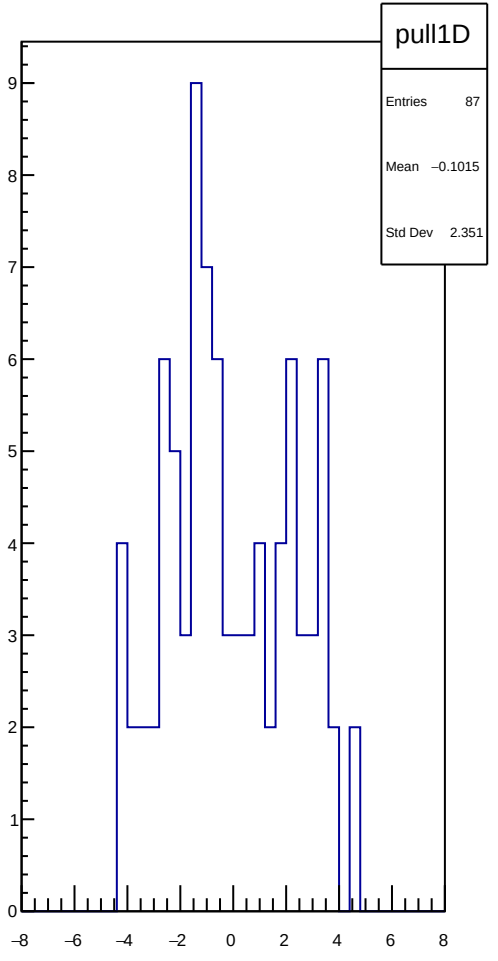

diff_bpm0i01aY_rms vs run
χ² / ndf 1.767e+04 / 86
p0 1247 ± 0.9562
1450
1400
1350
1300
1250
1200
1150
1100
1050

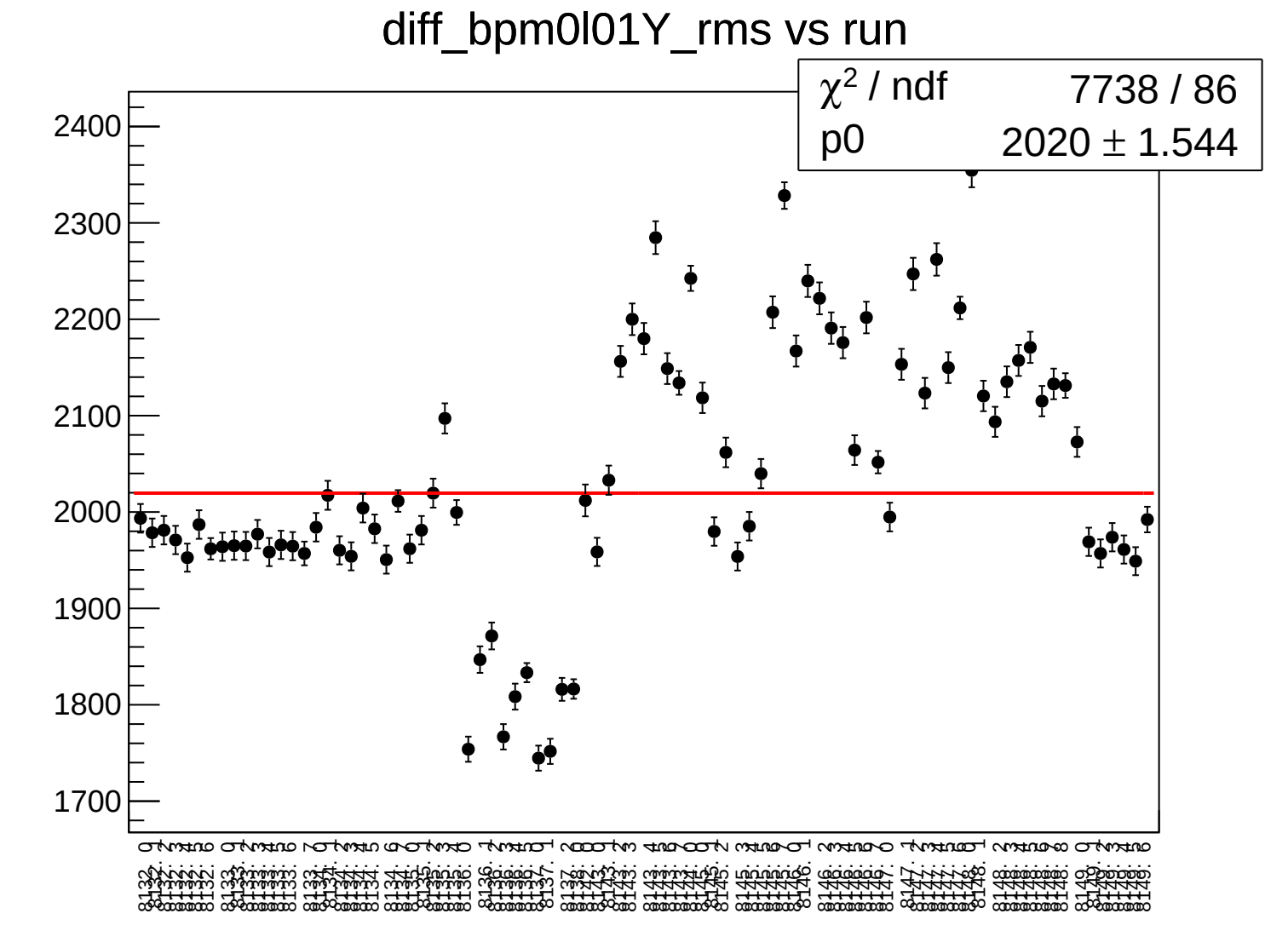

diff_bpm0l01X_mean vs run
χ² / ndf 91.09 / 86
p0 −46.78 ± 3.367
50
0
−50
−100
−150
pull
Entries 87
Mean −3808
Std Dev 0
2
1
0
−1
−2

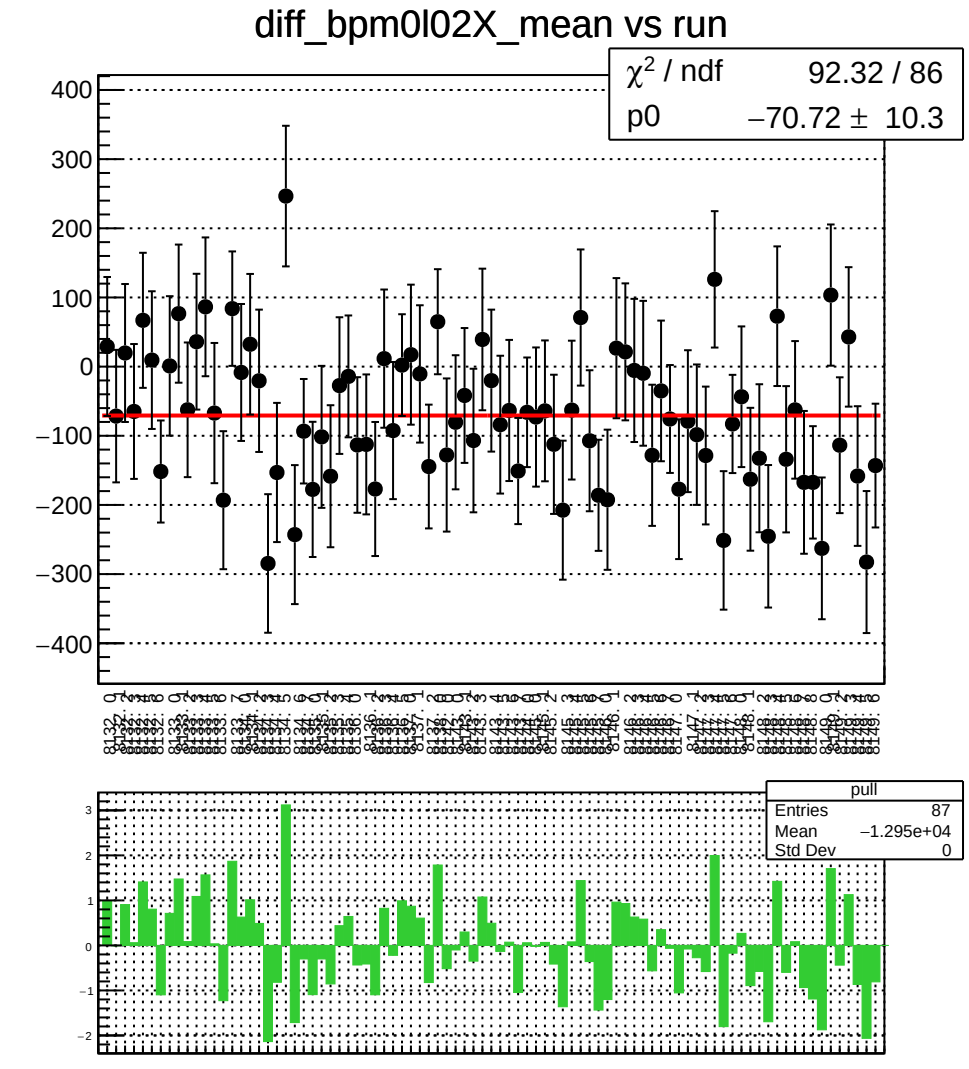

pull1D
Entries 87
Mean 0.002065
Std Dev 1.023
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

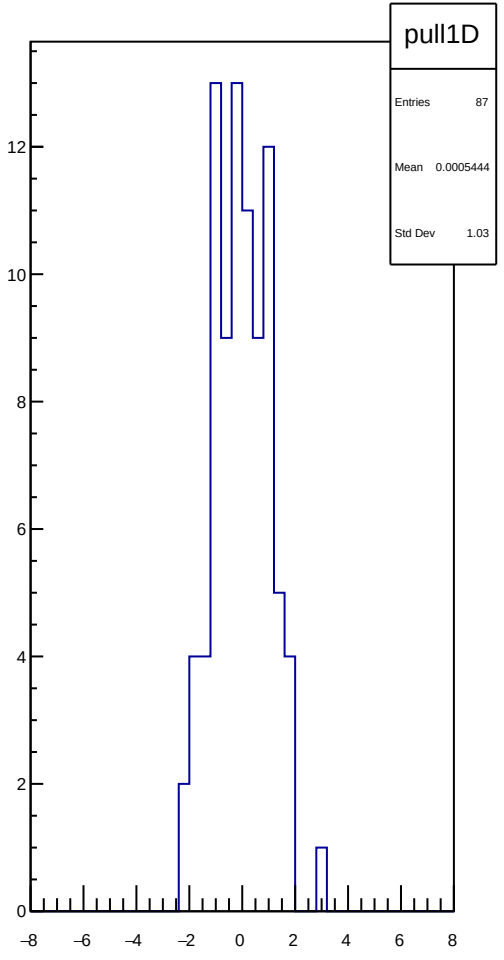

diff_bpm0l01X_rms vs run
χ² / ndf 180.2 / 86
p0 3121 ± 2.381
3250
3200
3150
3100
3050

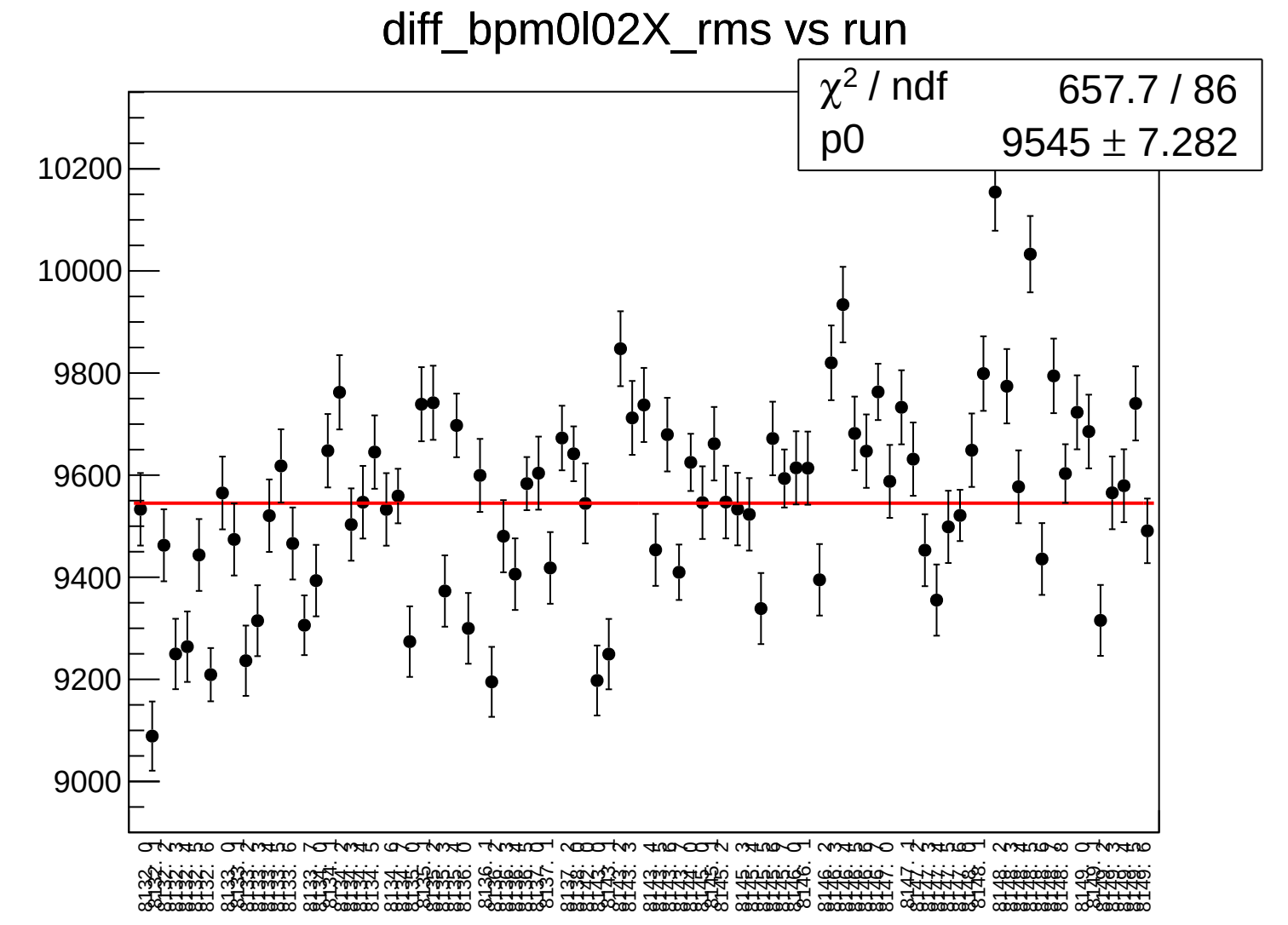

diff_bpm0l01Y_mean vs run
χ² / ndf 481.7 / 86
p0 53.57 ± 2.183
150
100
50
0
−50
pull
Entries 87
Mean 433.7
Std Dev 0
5
4
3
2
1
0
−1
−2
−3
−4

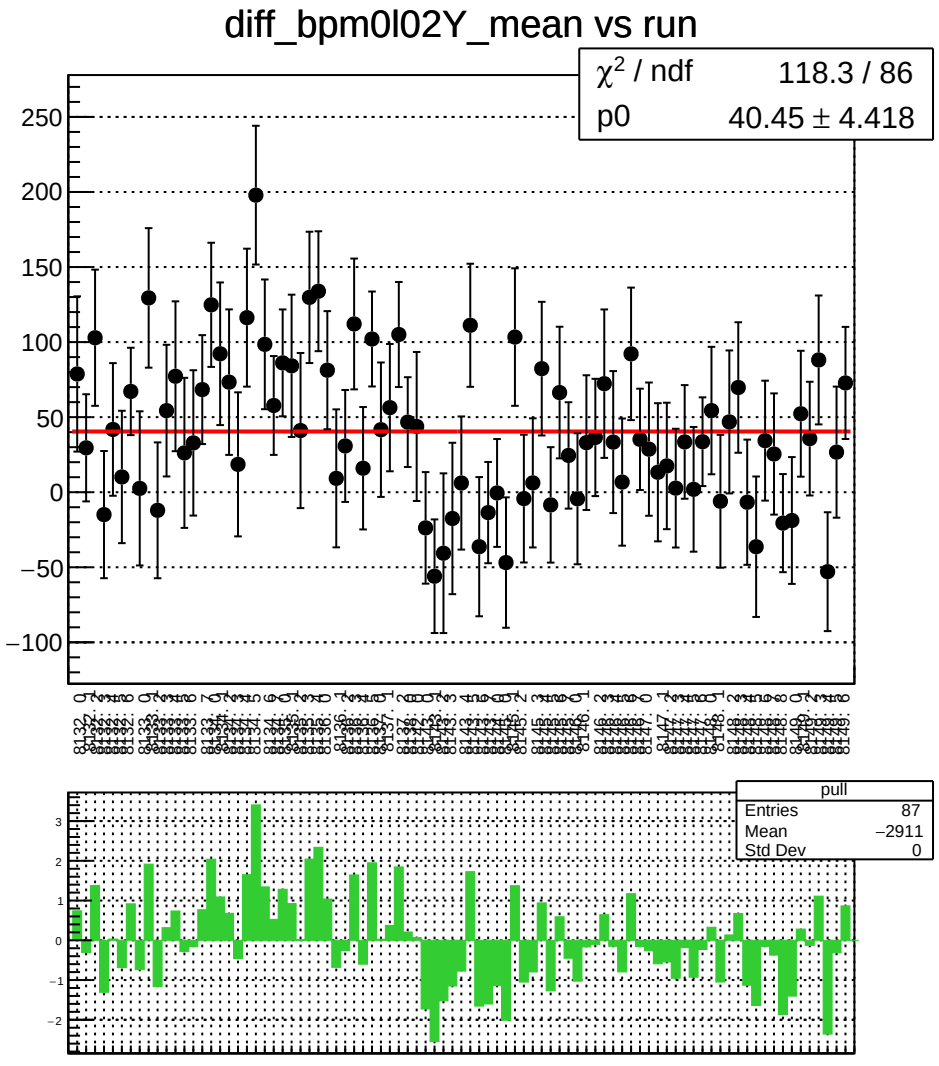

pull1D
Entries 87
Mean −0.1015
Std Dev 2.351
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

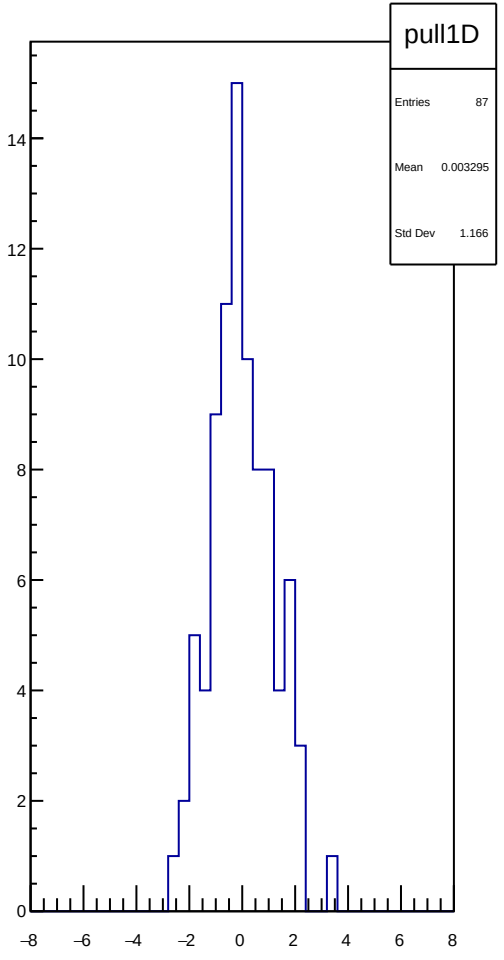

diff_bpm0l01Y_rms vs run
χ² / ndf 7738 / 86
p0 2020 ± 1.544
2400
2300
2200
2100
2000
1900
1800
1700

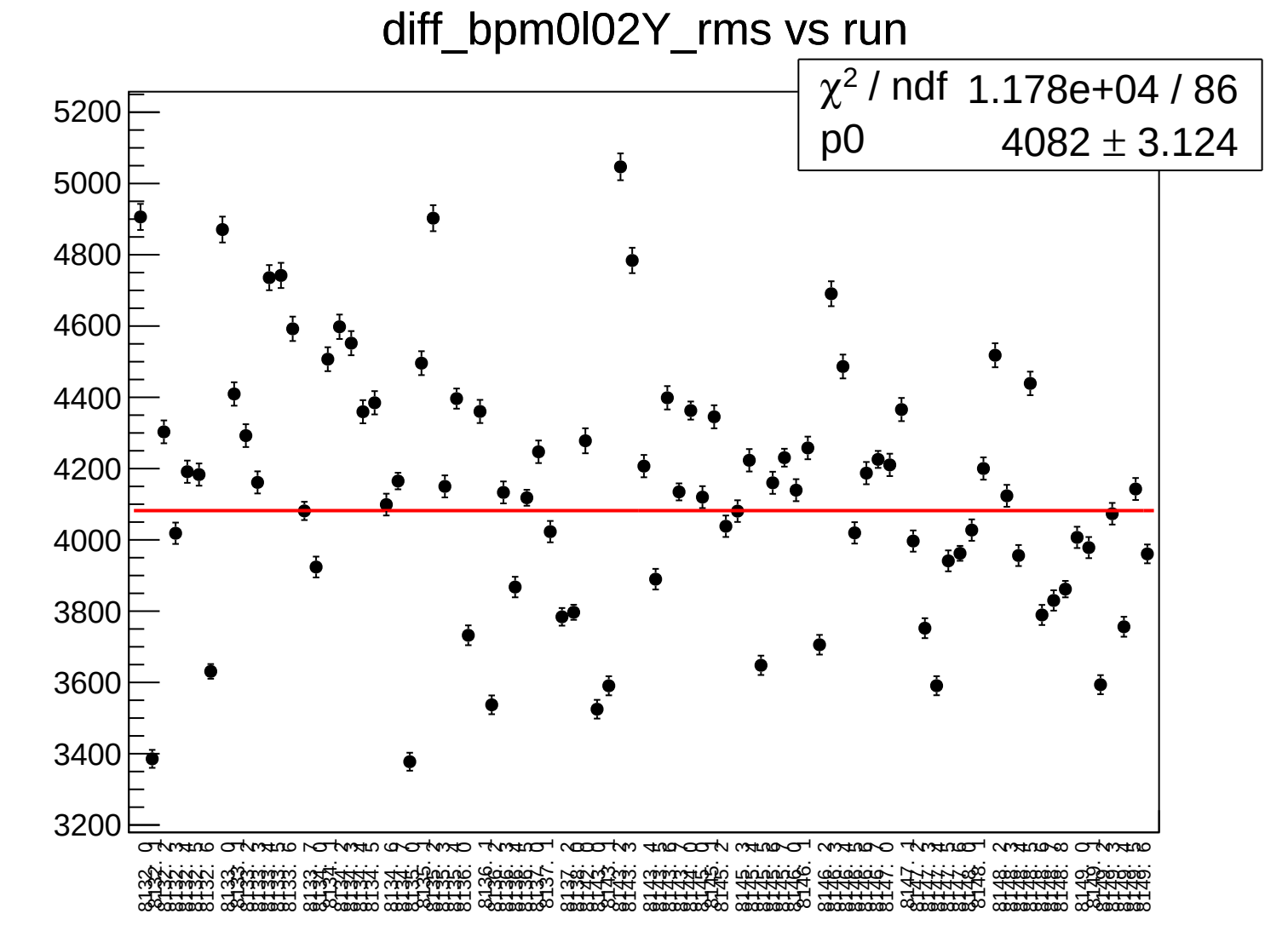

diff_bpm0l02X_mean vs run
χ² / ndf 92.32 / 86
p0 −70.72 ± 10.3
pull
Entries 87
Mean −1.295e+04
Std Dev 0

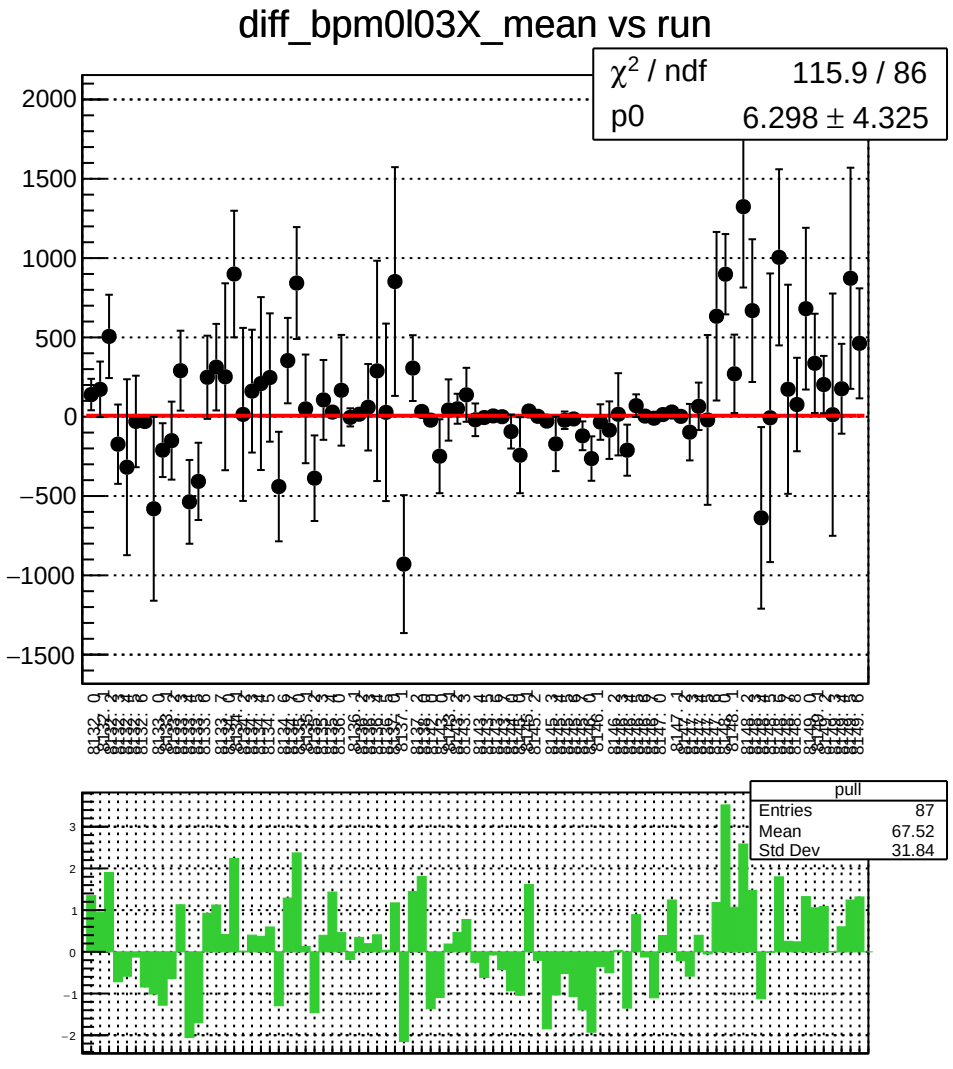

pull1D
Entries 87
Mean 0.0005444
Std Dev 1.03

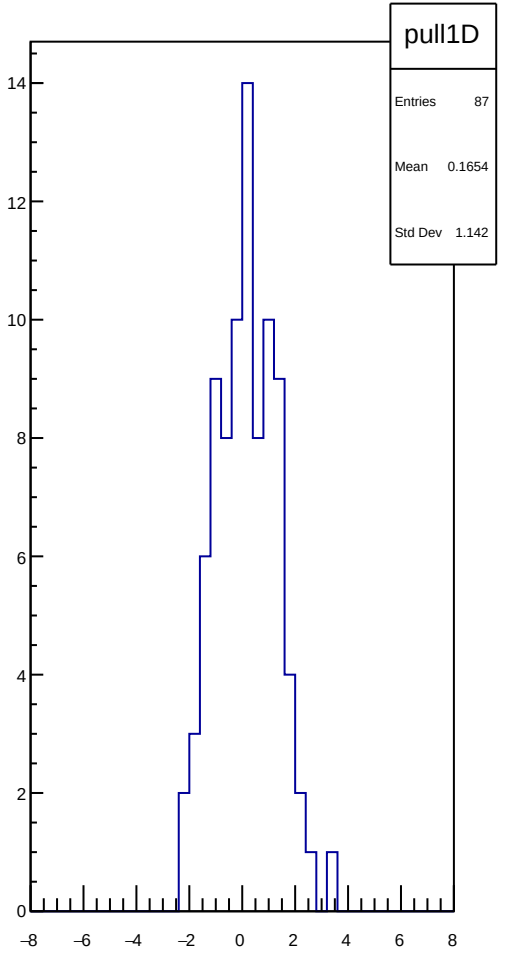

diff_bpm0l02X_rms vs run
χ² / ndf 657.7 / 86
p0 9545 ± 7.282
10200
10000
9800
9600
9400
9200
9000

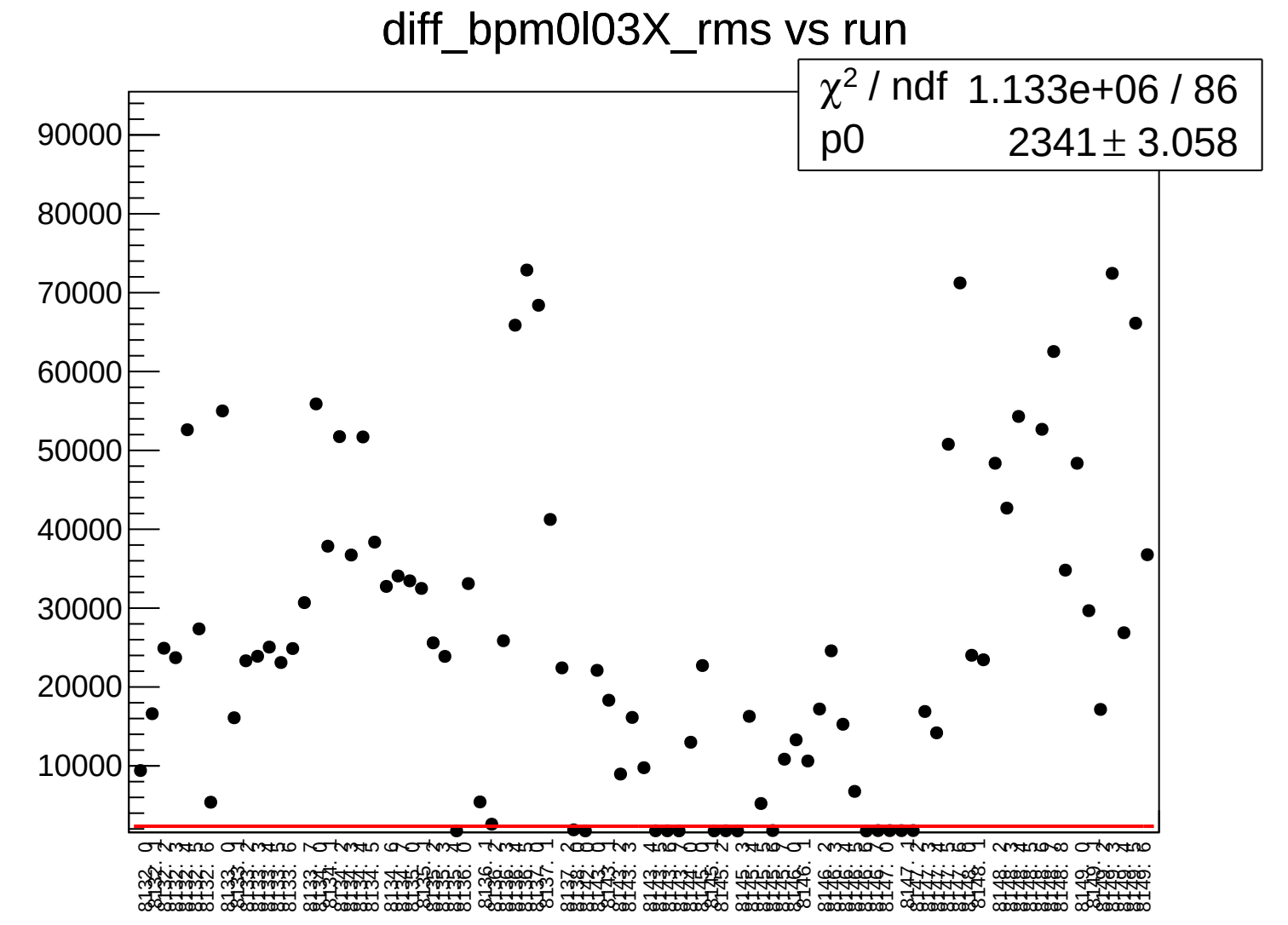

diff_bpm0l02Y_mean vs run
χ² / ndf 118.3 / 86
p0 40.45 ± 4.418
pull
Entries 87
Mean −2911
Std Dev 0

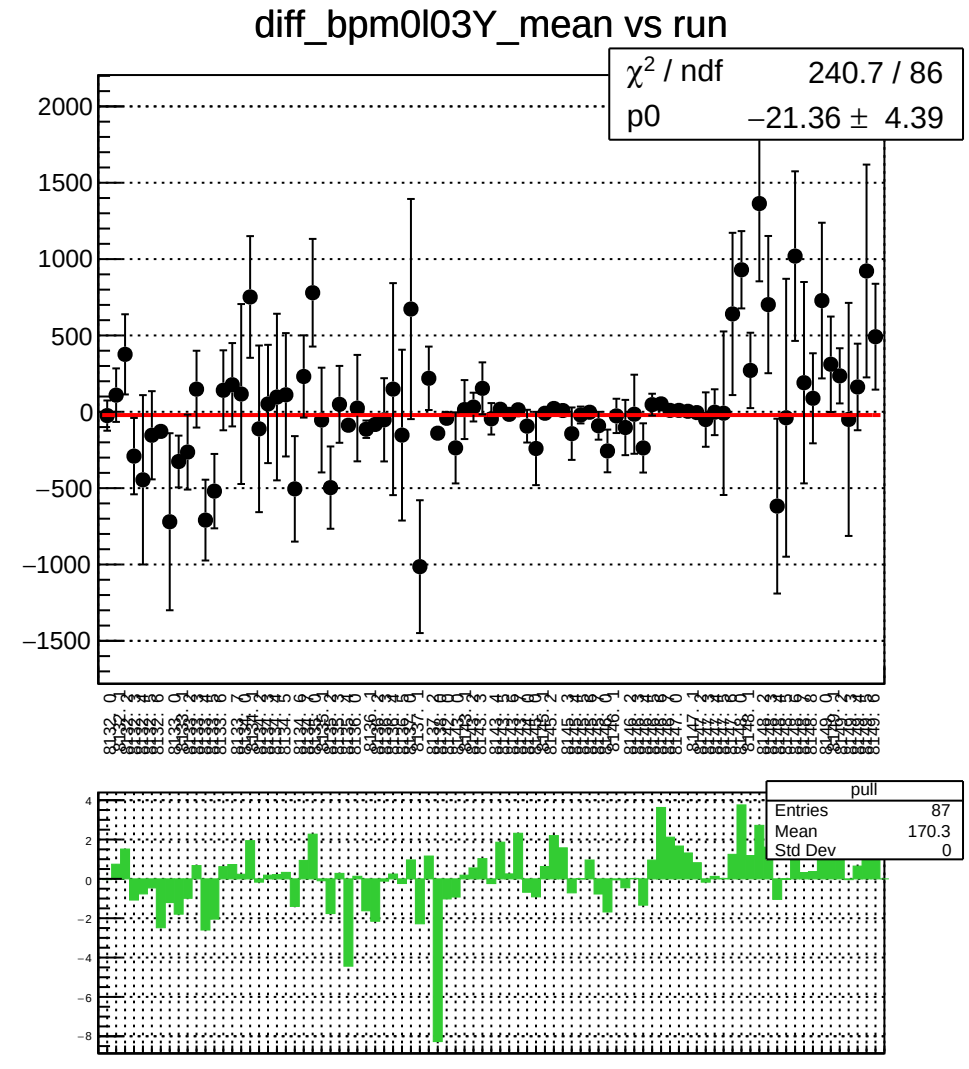

pull1D
Entries 87
Mean 0.003295
Std Dev 1.166

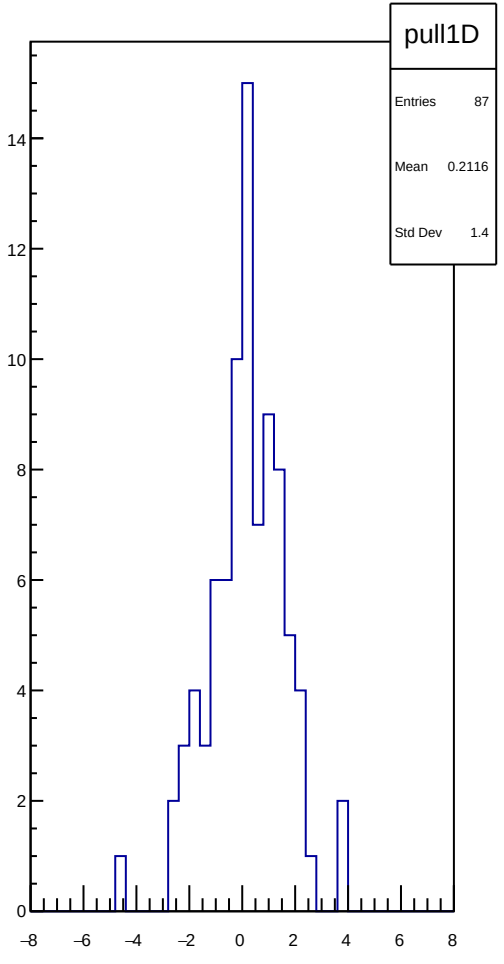

diff_bpm0l02Y_rms vs run
χ² / ndf 1.178e+04 / 86
p0 4082 ± 3.124
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

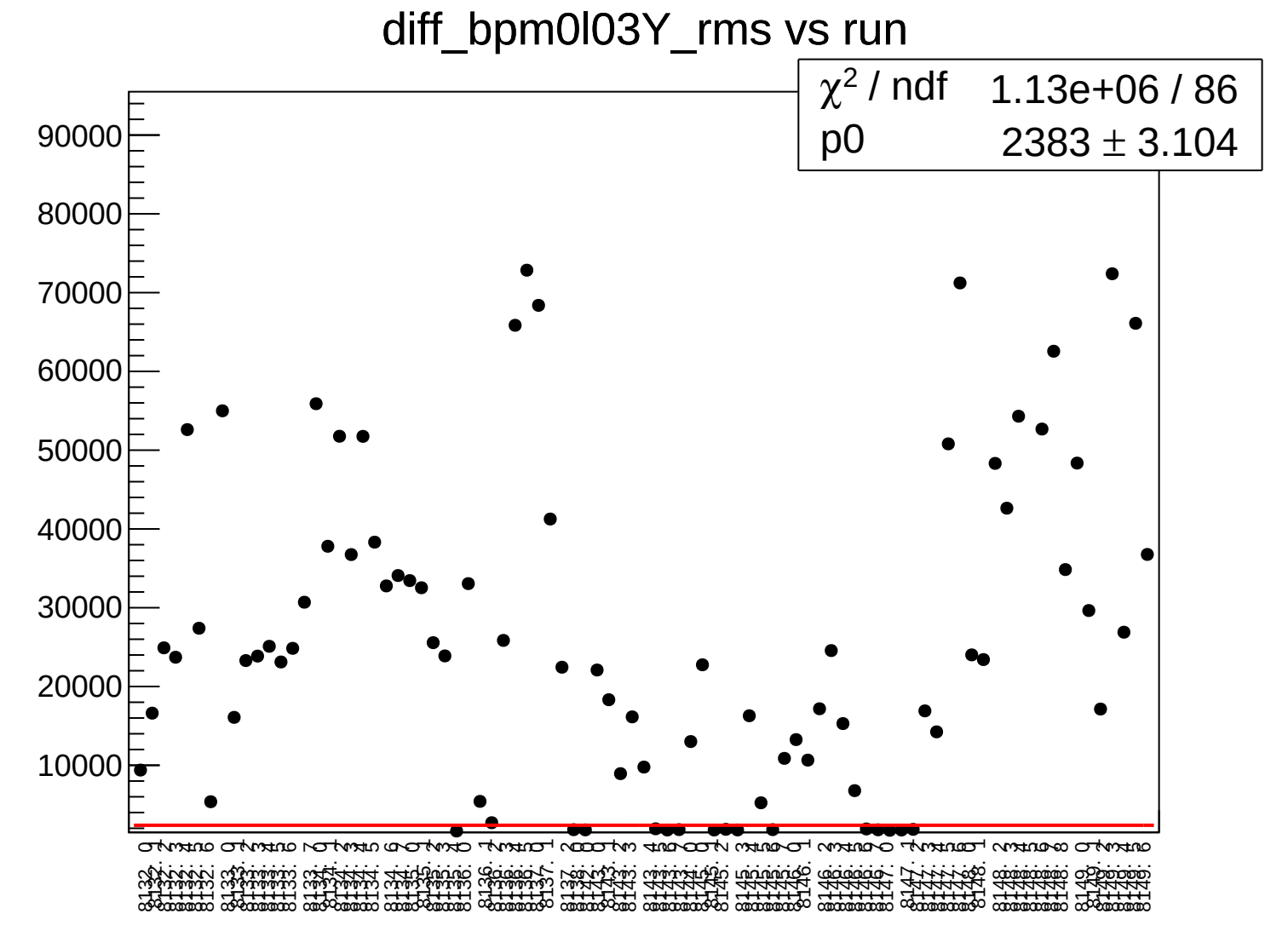

diff_bpm0l03X_mean vs run
χ^2 / ndf 115.9 / 86
p0 6.298 ± 4.325
pull
Entries 87
Mean 67.52
Std Dev 31.84

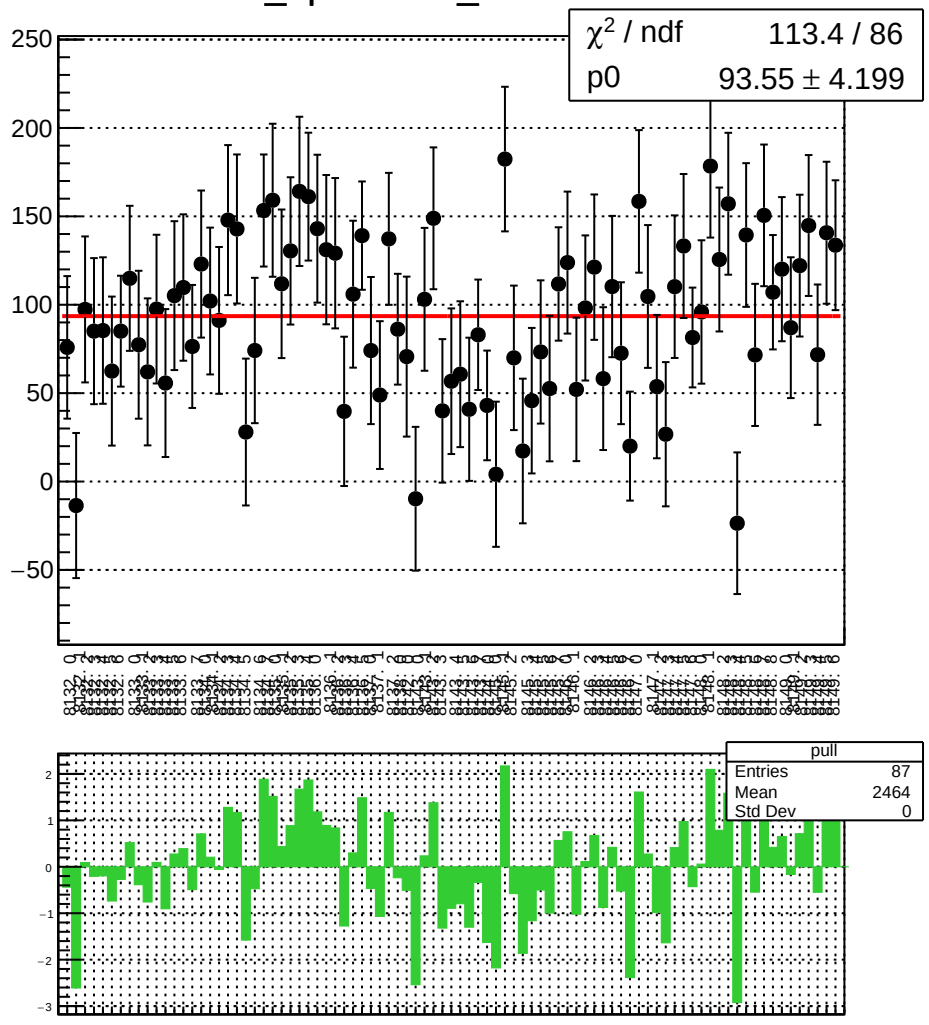

pull1D
Entries 87
Mean 0.1654
Std Dev 1.142

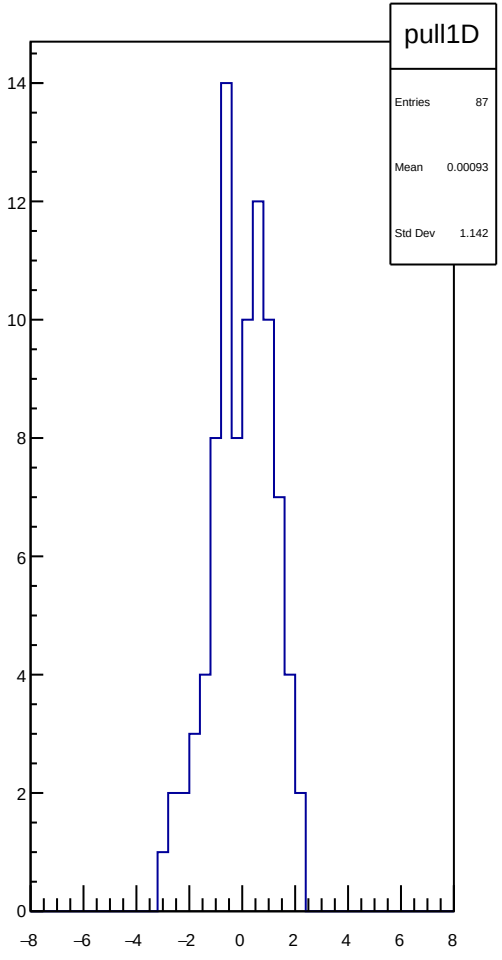

diff_bpm0l03X_rms vs run
χ^2 / ndf 1.133e+06 / 86
p0 2341 ± 3.058
90000
80000
70000
60000
50000
40000
30000
20000
10000

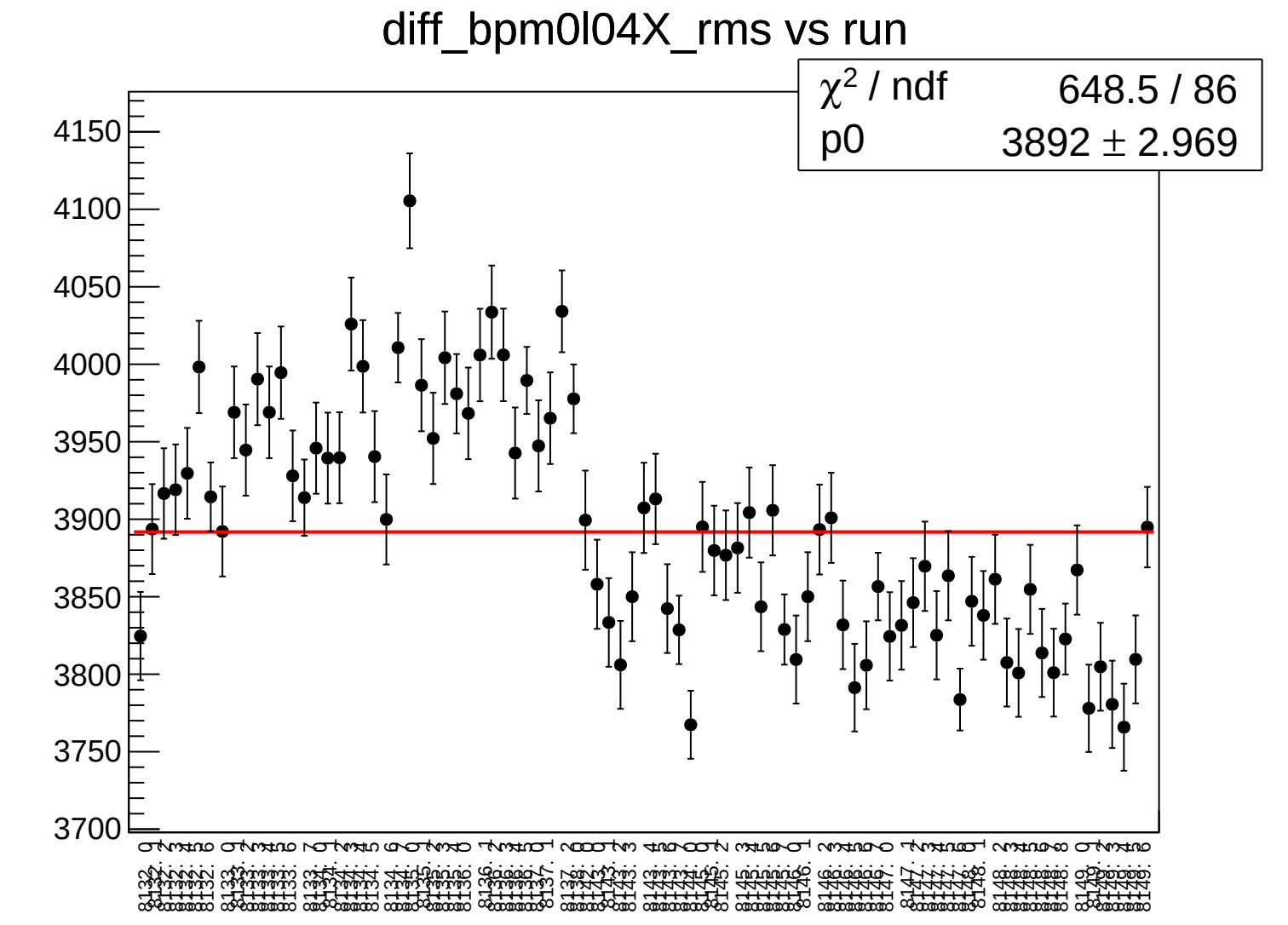

diff_bpm0l03Y_mean vs run
χ² / ndf 240.7 / 86
p0 −21.36 ± 4.39
pull
Entries 87
Mean 170.3
Std Dev 0

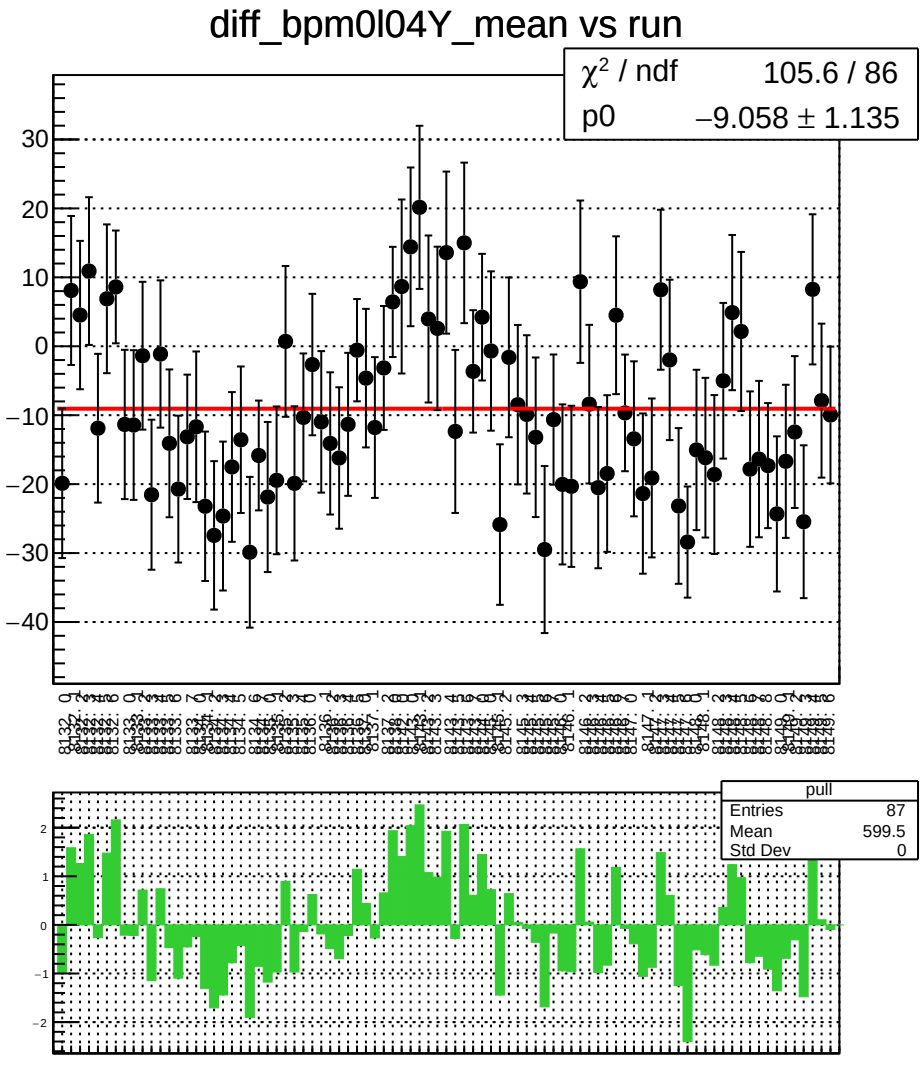

pull1D
Entries 87
Mean 0.2116
Std Dev 1.4

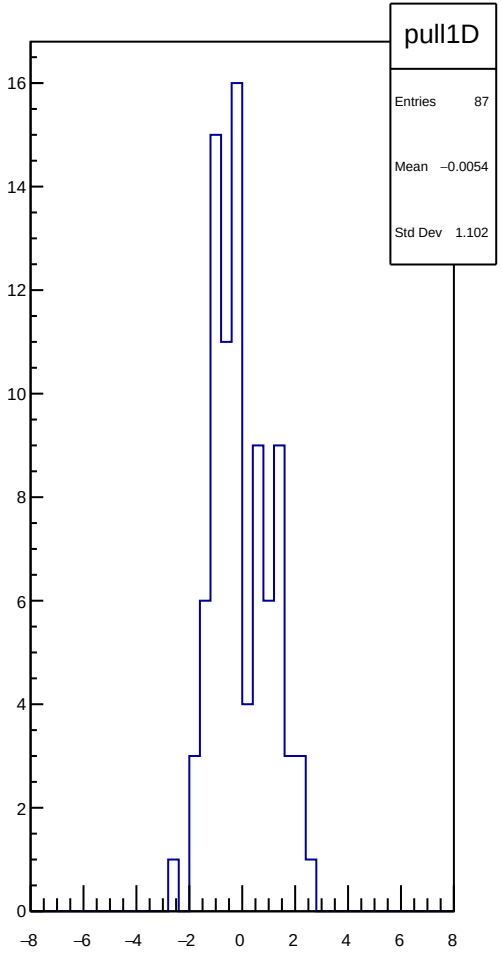

diff_bpm0l03Y_rms vs run
χ^2 / ndf 1.13e+06 / 86
p0 2383 ± 3.104
90000
80000
70000
60000
50000
40000
30000
20000
10000

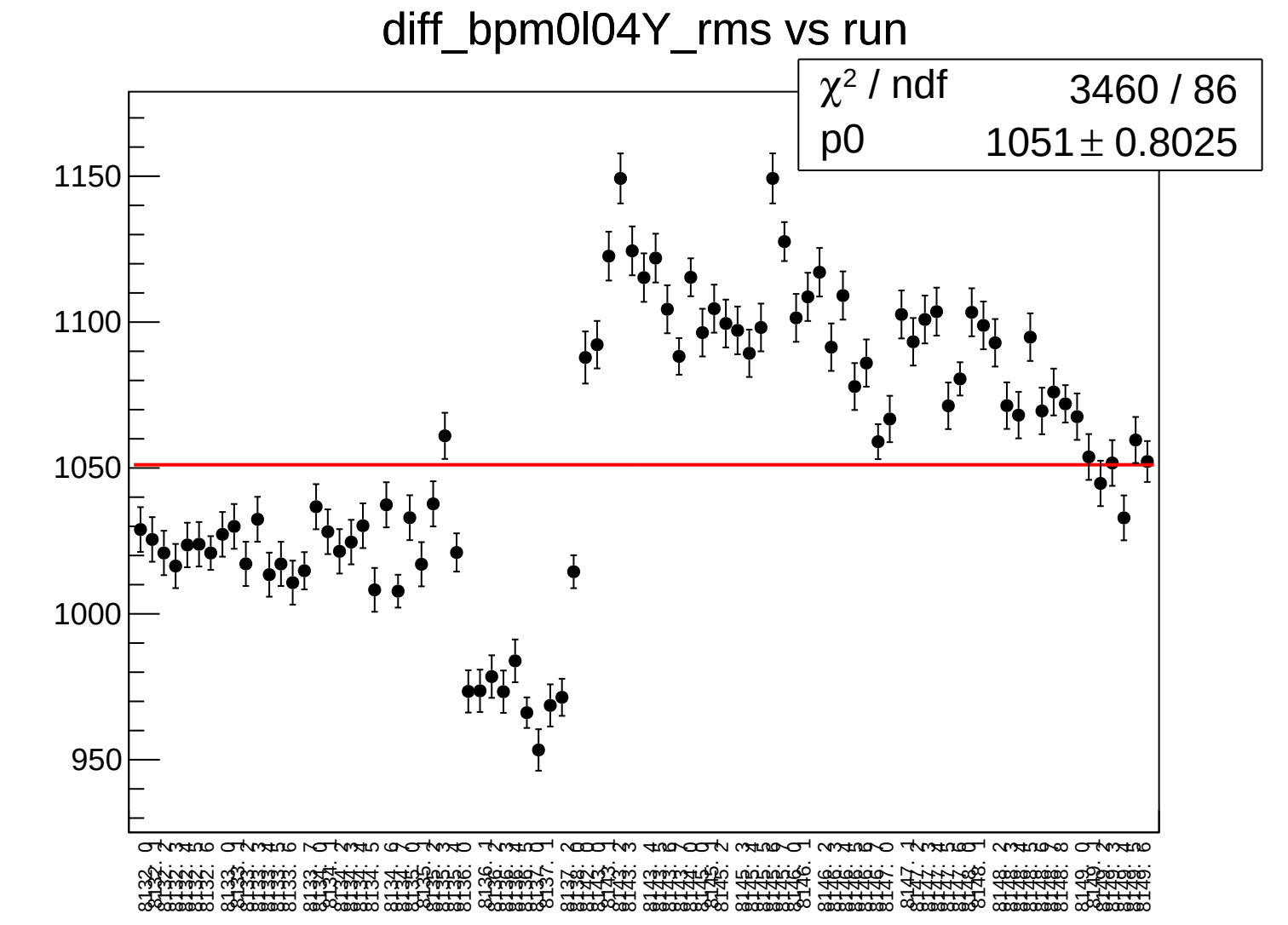

diff_bpm0l04X_mean vs run
χ^2 / ndf 113.4 / 86
p0 93.55 ± 4.199
pull
Entries 87
Mean 2464
Std Dev 0

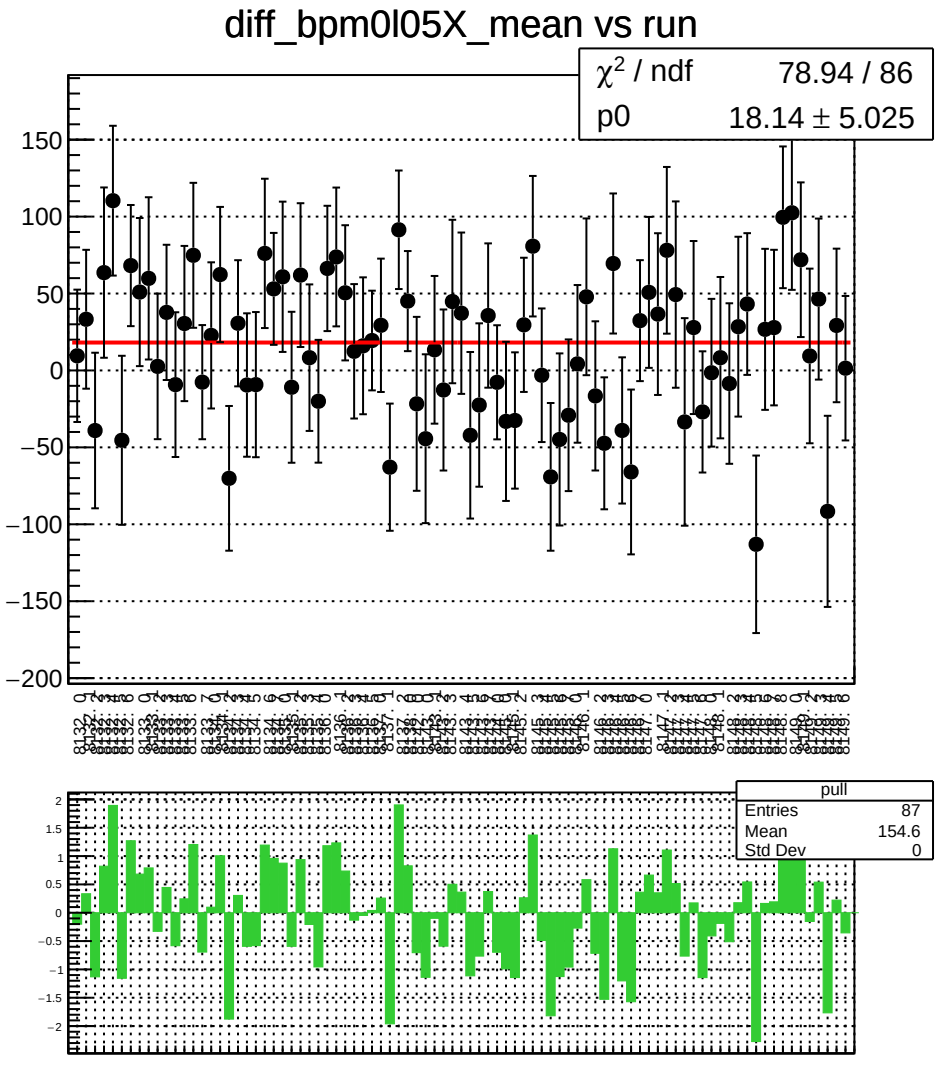

pull1D
Entries 87
Mean 0.00093
Std Dev 1.142

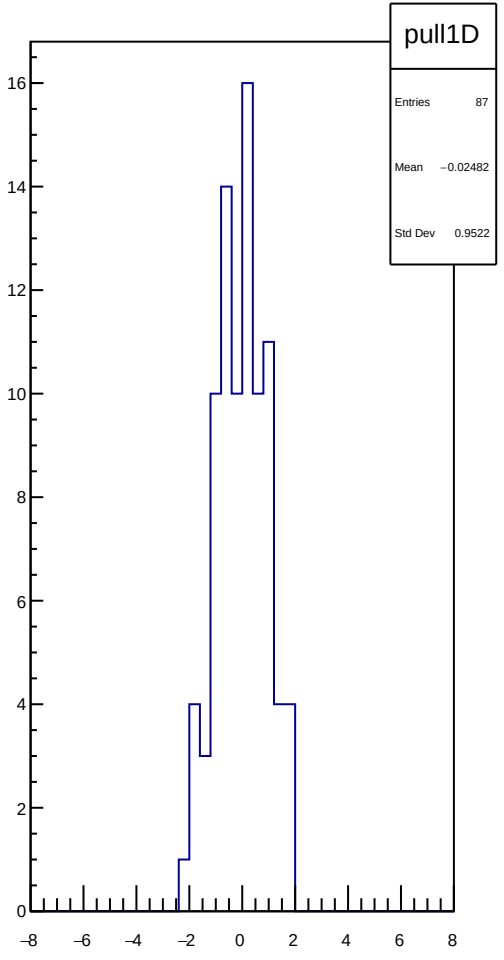

diff_bpm0l04X_rms vs run
χ² / ndf 648.5 / 86
p0 3892 ± 2.969
4150
4100
4050
4000
3950
3900
3850
3800
3750
3700

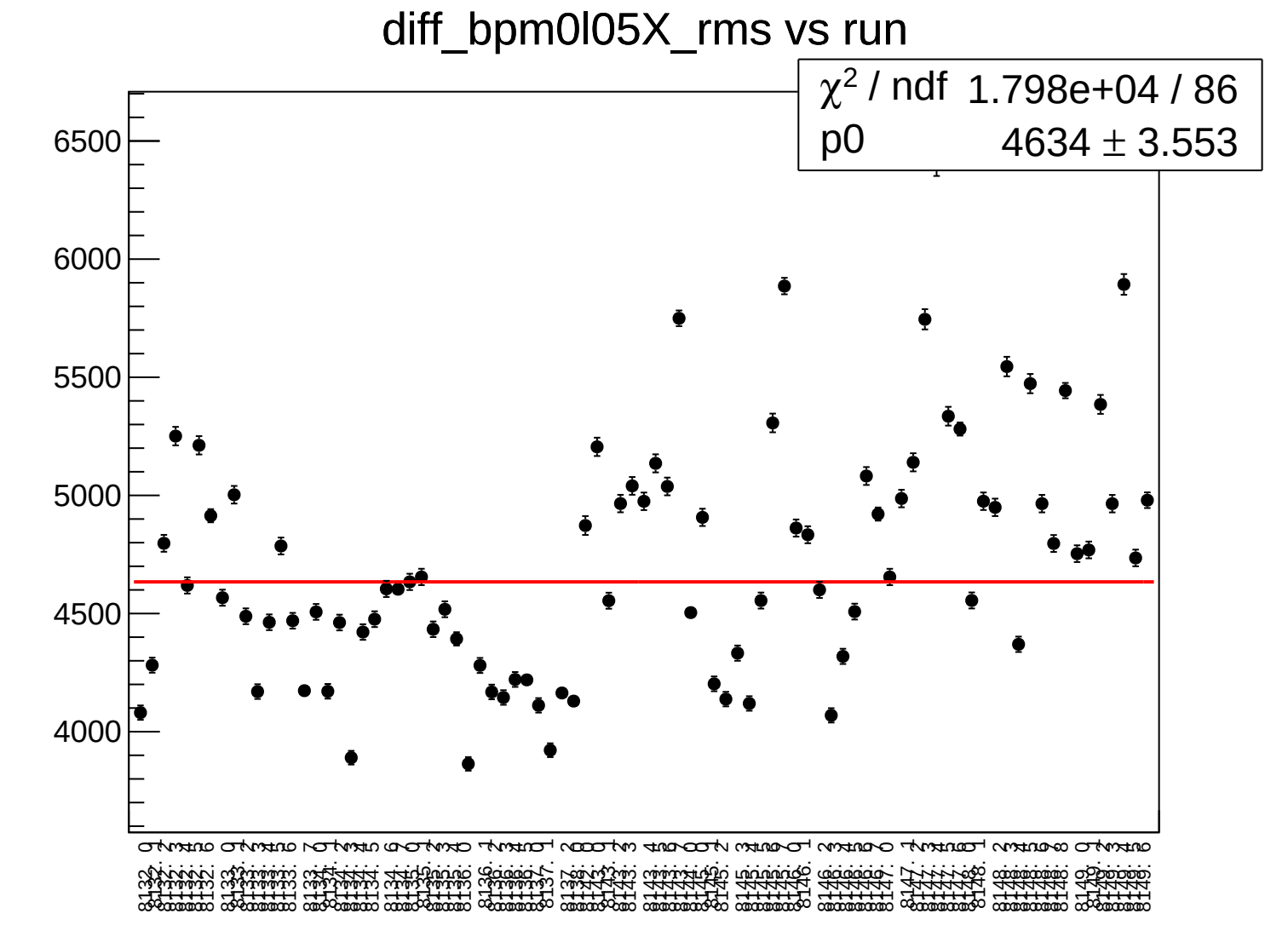

diff_bpm0l04Y_mean vs run
χ² / ndf 105.6 / 86
p0 −9.058 ± 1.135
pull
Entries 87
Mean 599.5
Std Dev 0

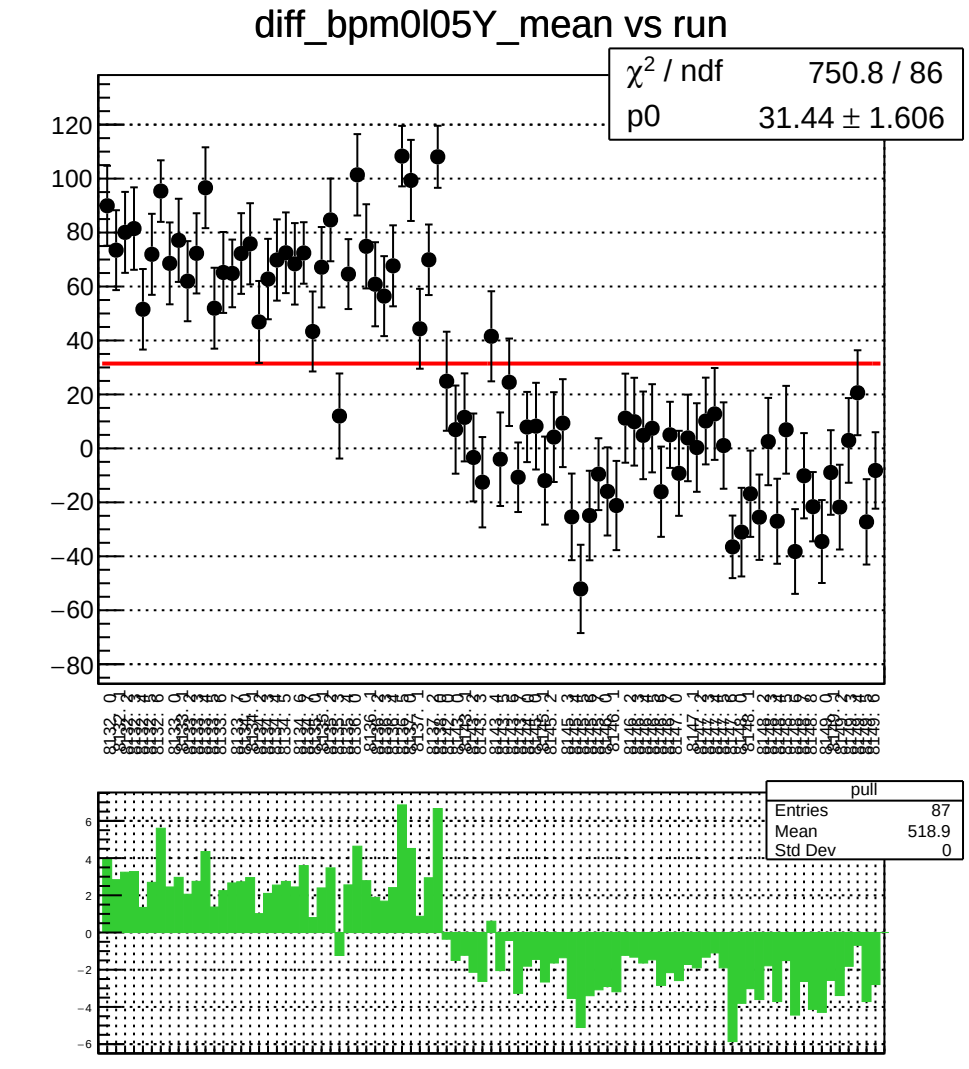

pull1D
Entries 87
Mean −0.0054
Std Dev 1.102

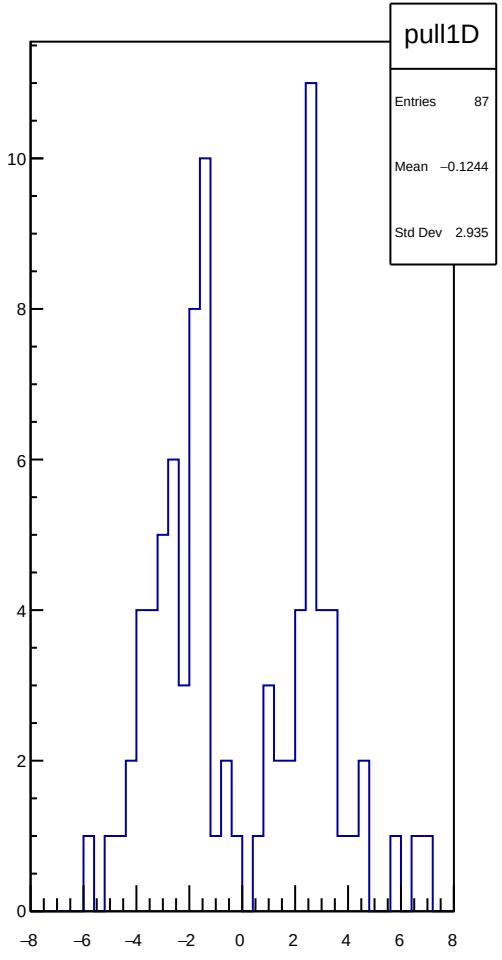

diff_bpm0l04Y_rms vs run
χ² / ndf 3460 / 86
p0 1051 ± 0.8025
1150
1100
1050
1000
950

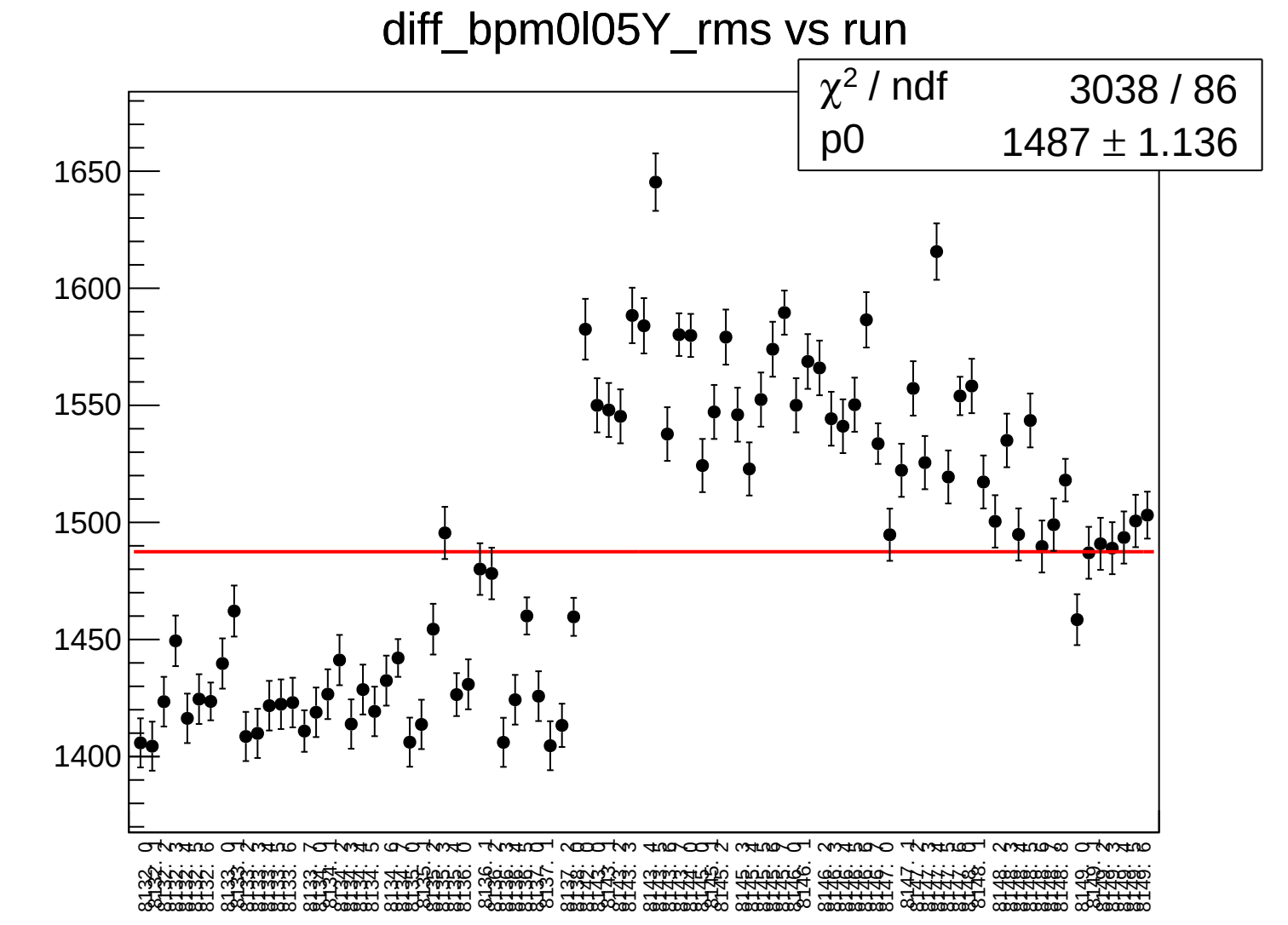

diff_bpm0l05X_mean vs run
χ^2 / ndf 78.94 / 86
p0 18.14 ± 5.025
pull
Entries 87
Mean 154.6
Std Dev 0

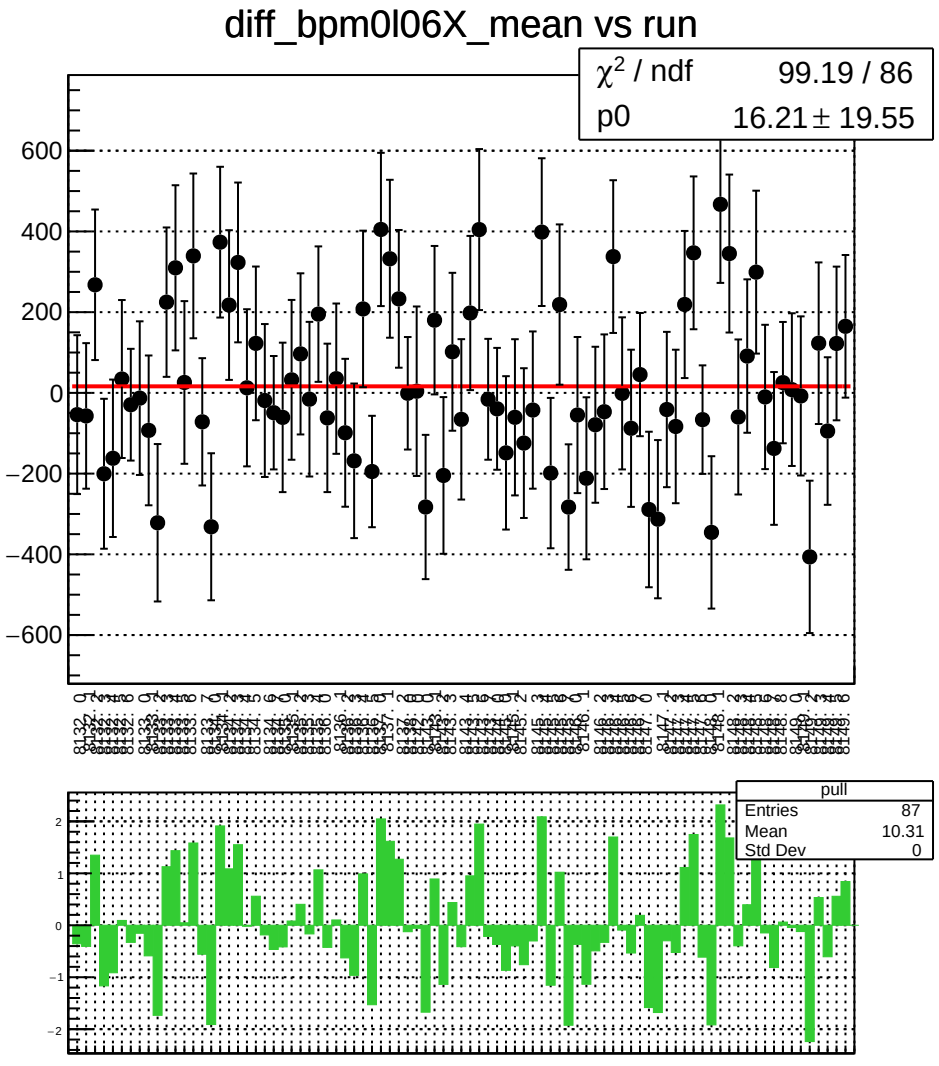

pull1D
Entries 87
Mean −0.02482
Std Dev 0.9522

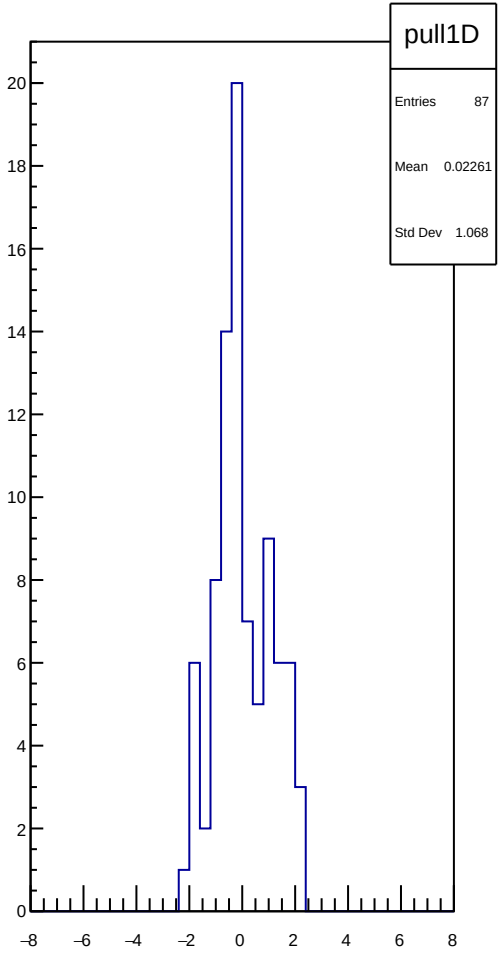

diff_bpm0l05X_rms vs run
χ² / ndf 1.798e+04 / 86
p0 4634 ± 3.553
6500
6000
5500
5000
4500
4000


diff_bpm0l05Y_mean vs run
χ^2 / ndf 750.8 / 86
p0 31.44 ± 1.606
pull
Entries 87
Mean 518.9
Std Dev 0

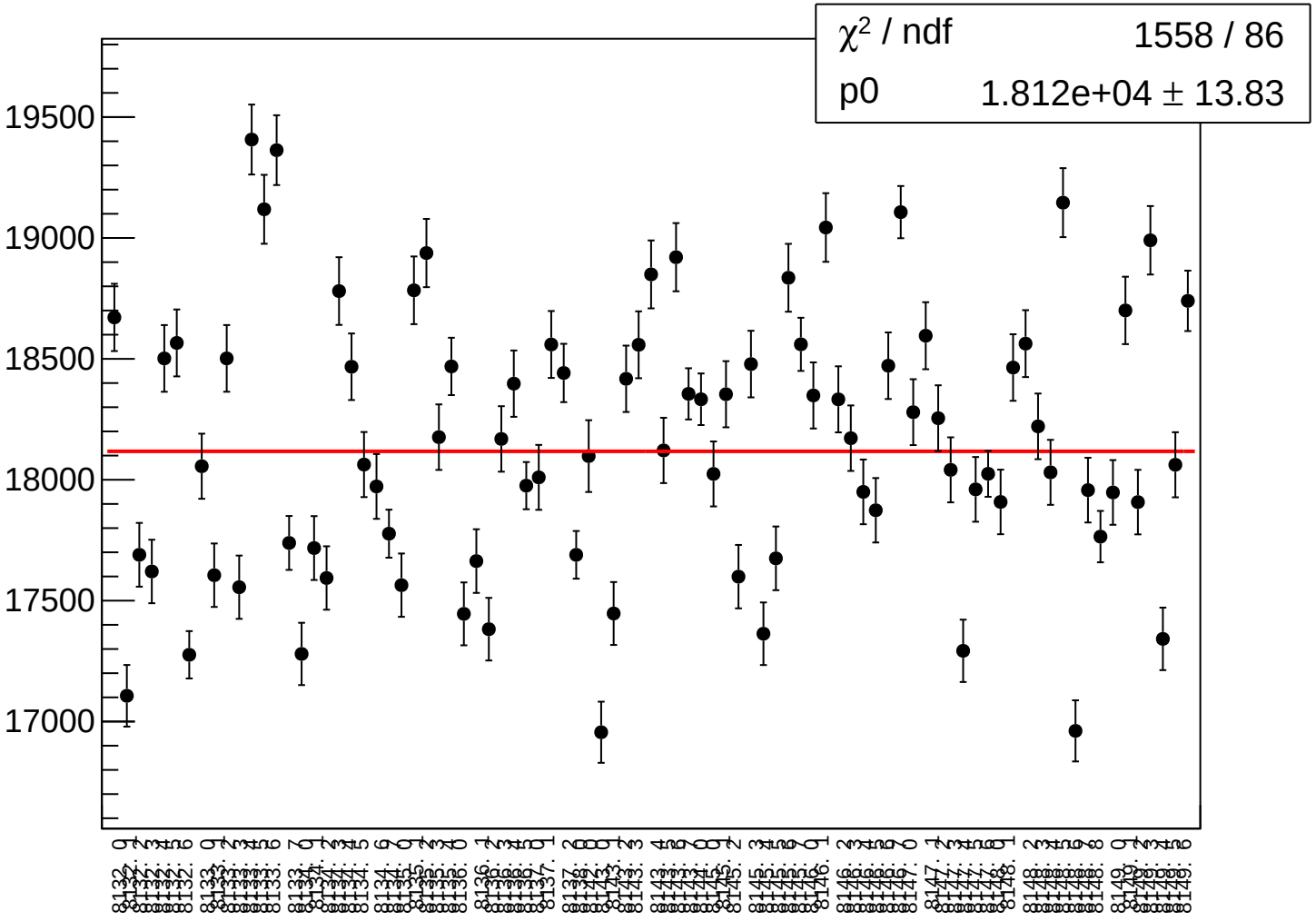

pull1D
Entries 87
Mean −0.1244
Std Dev 2.935

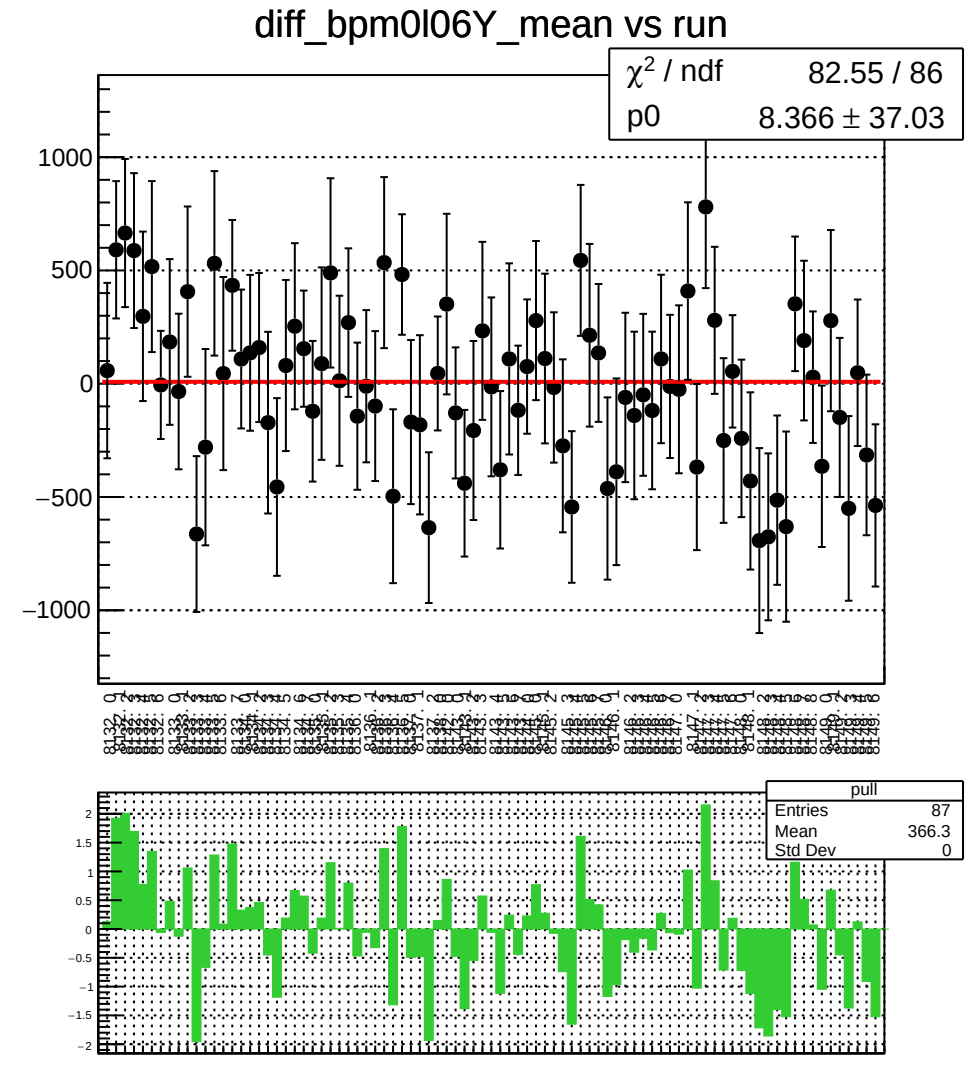

diff_bpm0l05Y_rms vs run
χ² / ndf 3038 / 86
p0 1487 ± 1.136
1650
1600
1550
1500
1450
1400

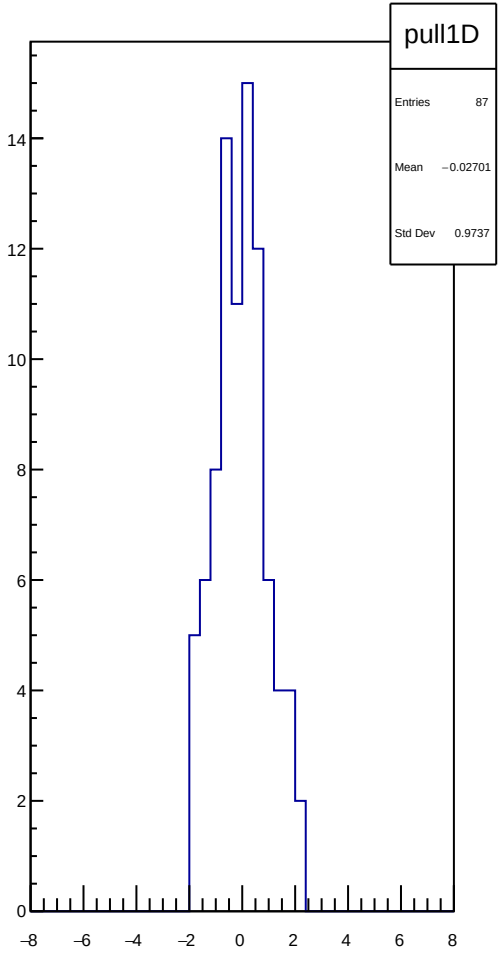

diff_bpm0l06X_mean vs run
χ² / ndf 99.19 / 86
p0 16.21 ± 19.55
pull
Entries 87
Mean 10.31
Std Dev 0

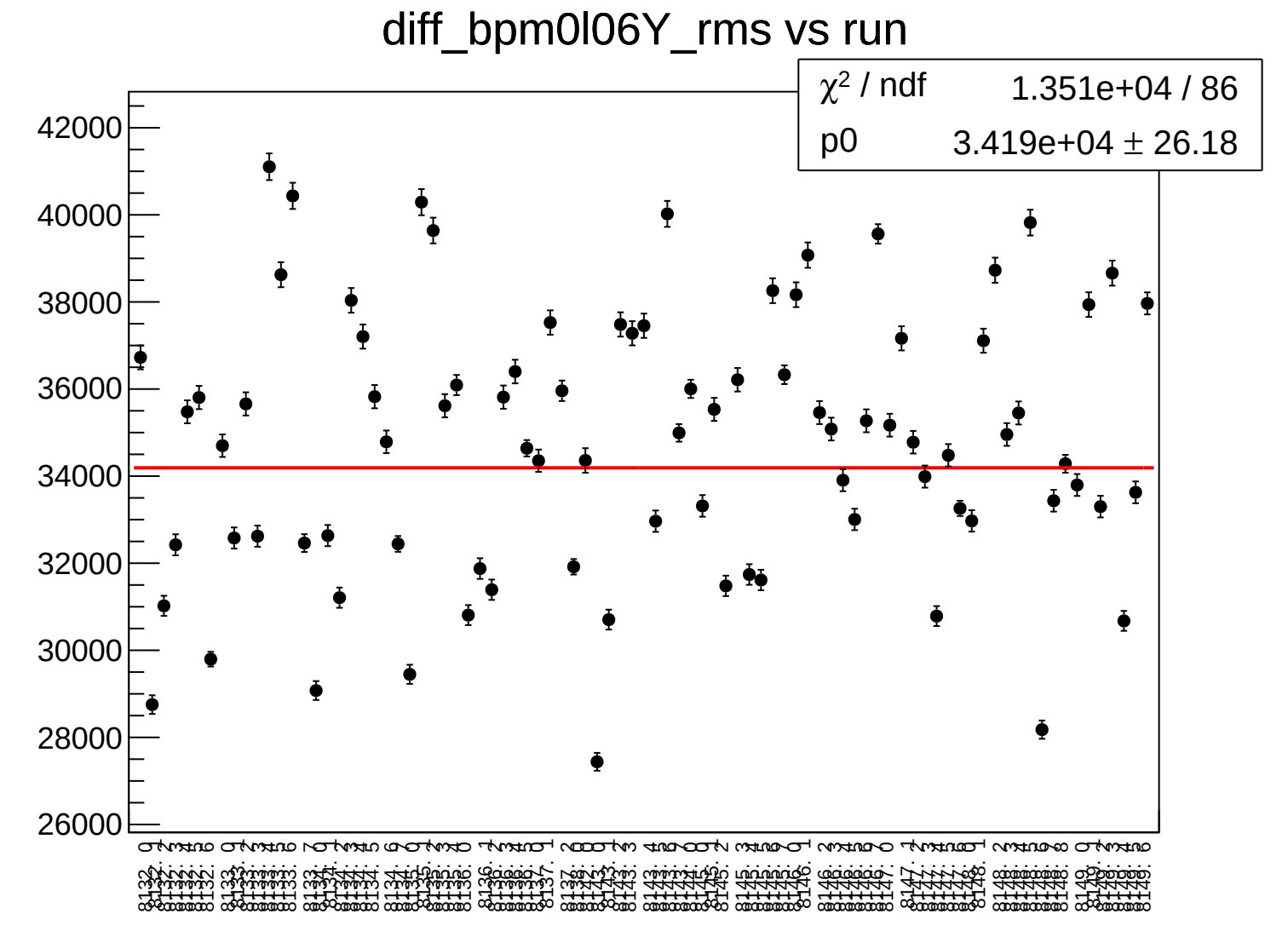

pull1D
Entries 87
Mean 0.02261
Std Dev 1.068

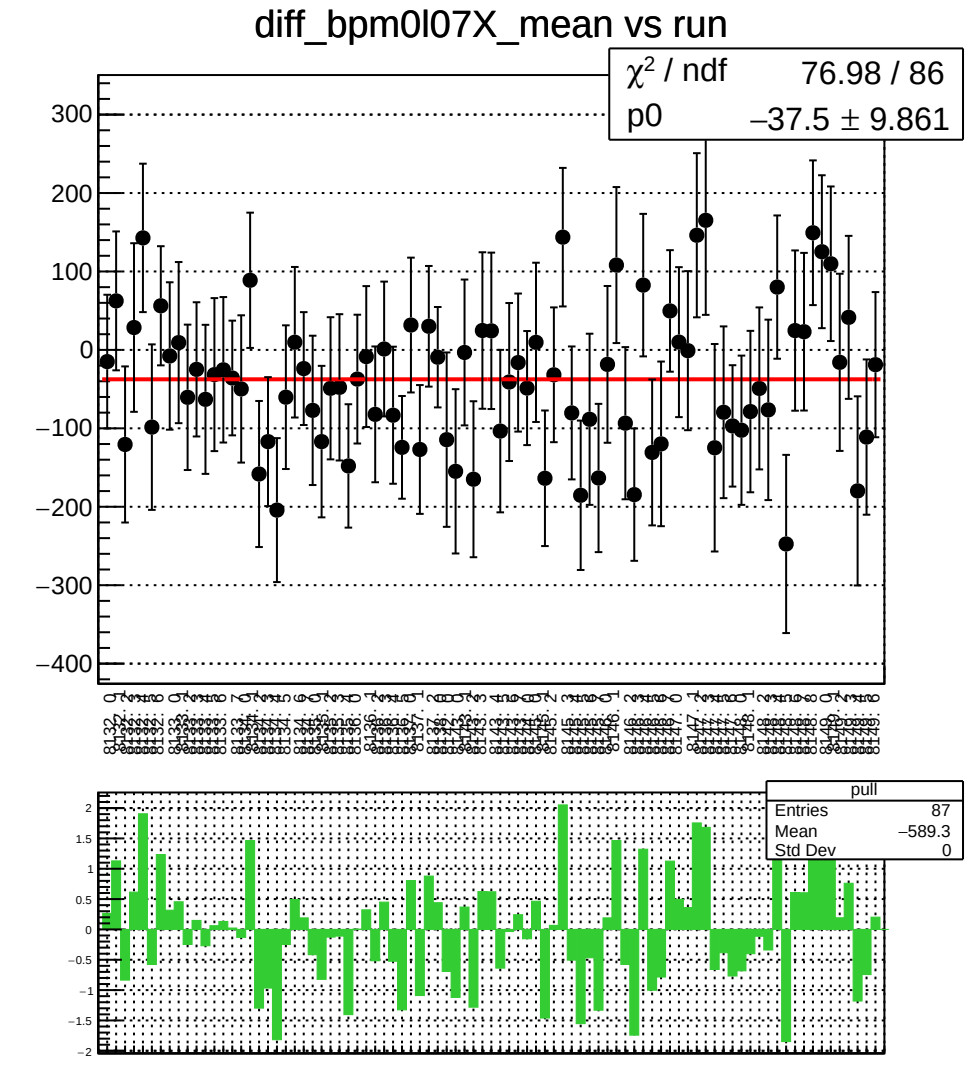
diff_bpm0l06X_rms vs run

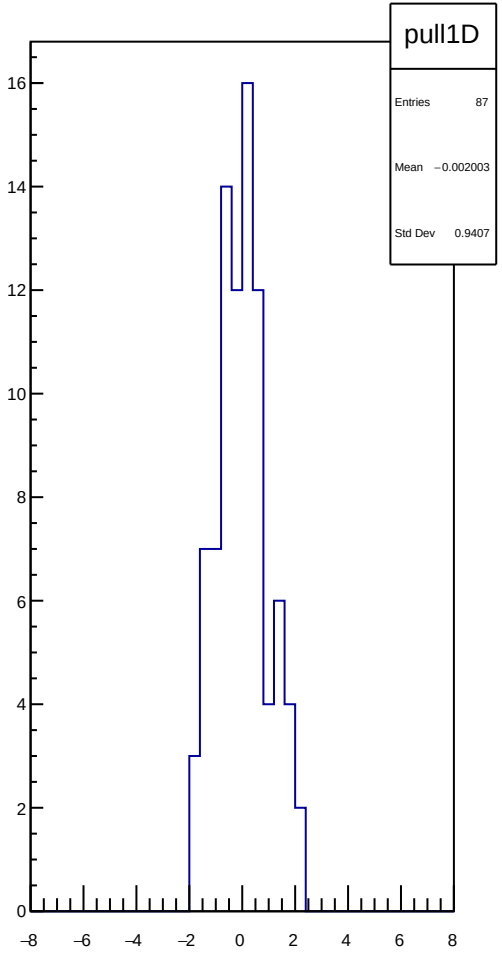


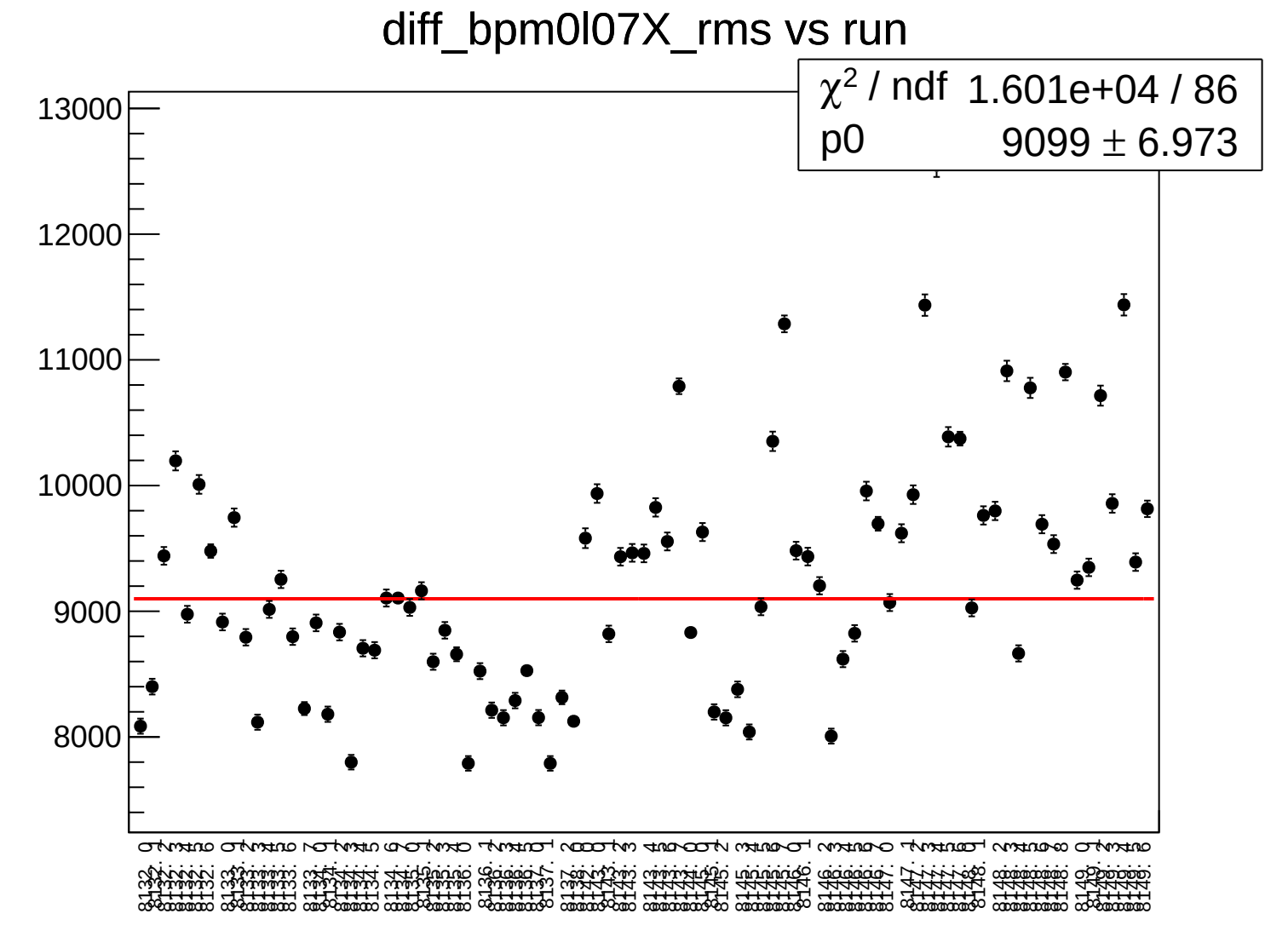

diff_bpm0l06Y_mean vs run
χ² / ndf 82.55 / 86
p0 8.366 ± 37.03
1000
500
0
−500
−1000
pull
Entries 87
Mean 366.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

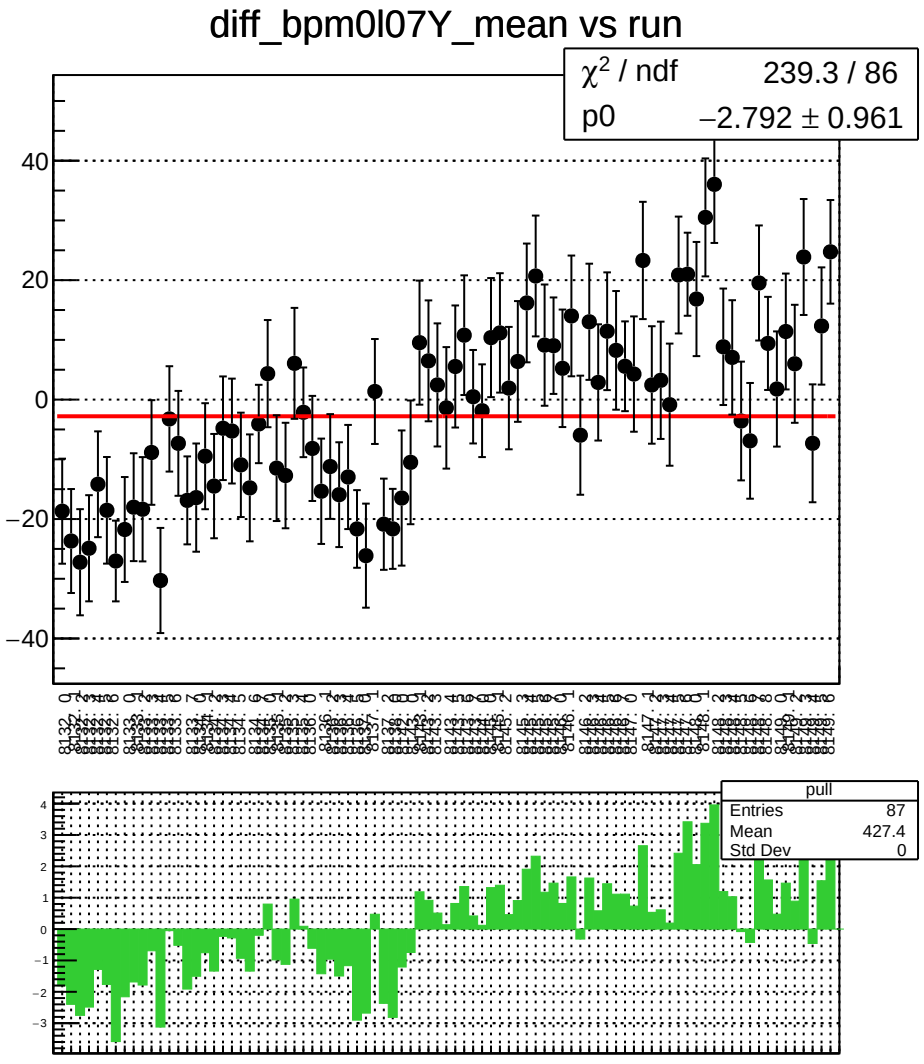

pull1D
Entries 87
Mean −0.02701
Std Dev 0.9737
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

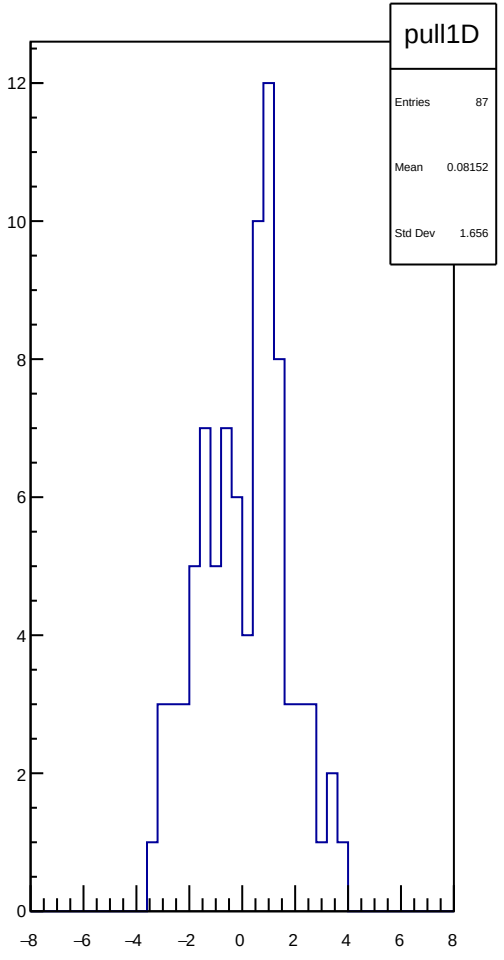

diff_bpm0l06Y_rms vs run
χ² / ndf 1.351e+04 / 86
p0 3.419e+04 ± 26.18
42000
40000
38000
36000
34000
32000
30000
28000
26000

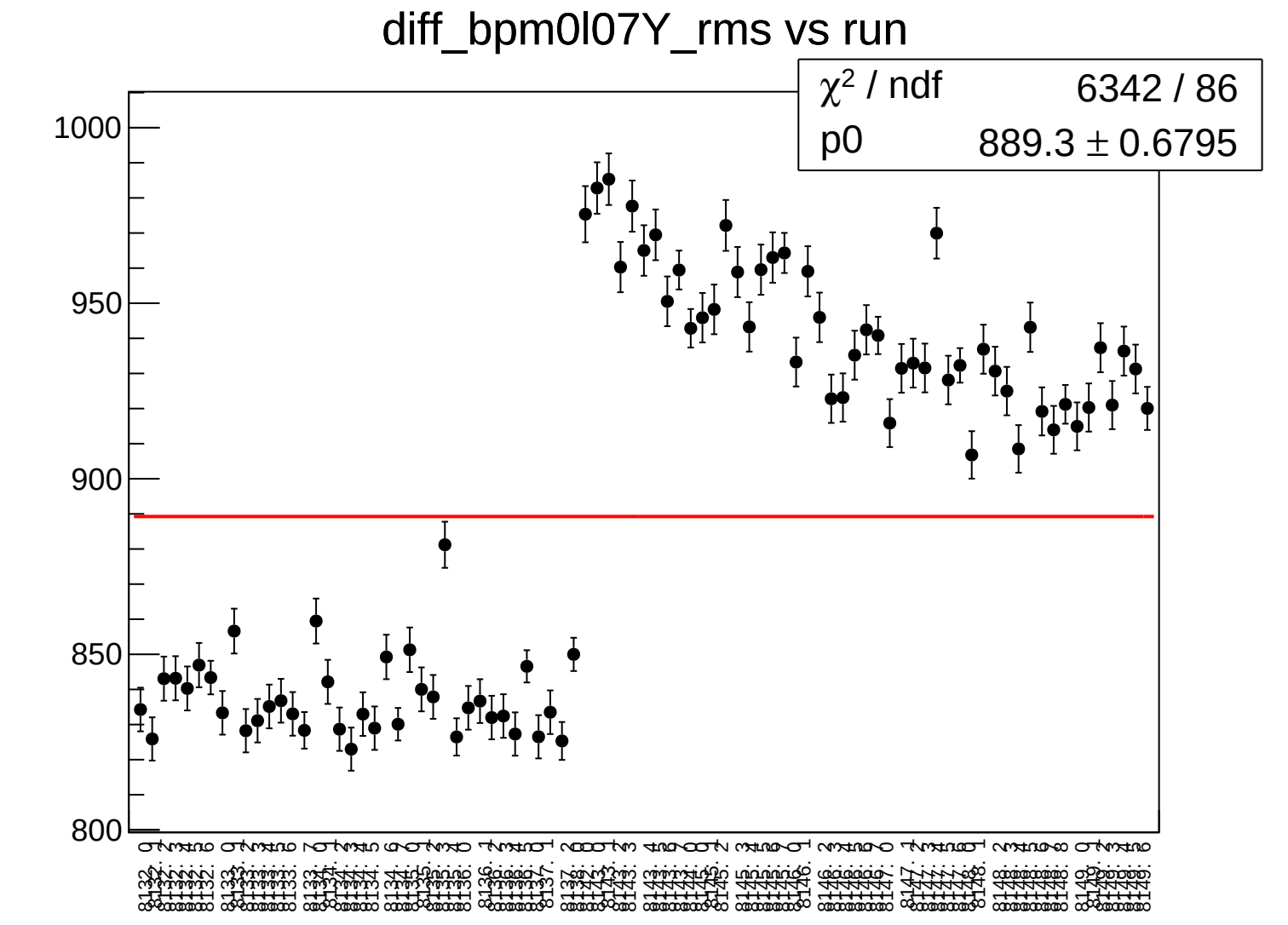

diff_bpm0l07X_mean vs run
χ² / ndf 76.98 / 86
p0 −37.5 ± 9.861
pull
Entries 87
Mean −589.3
Std Dev 0

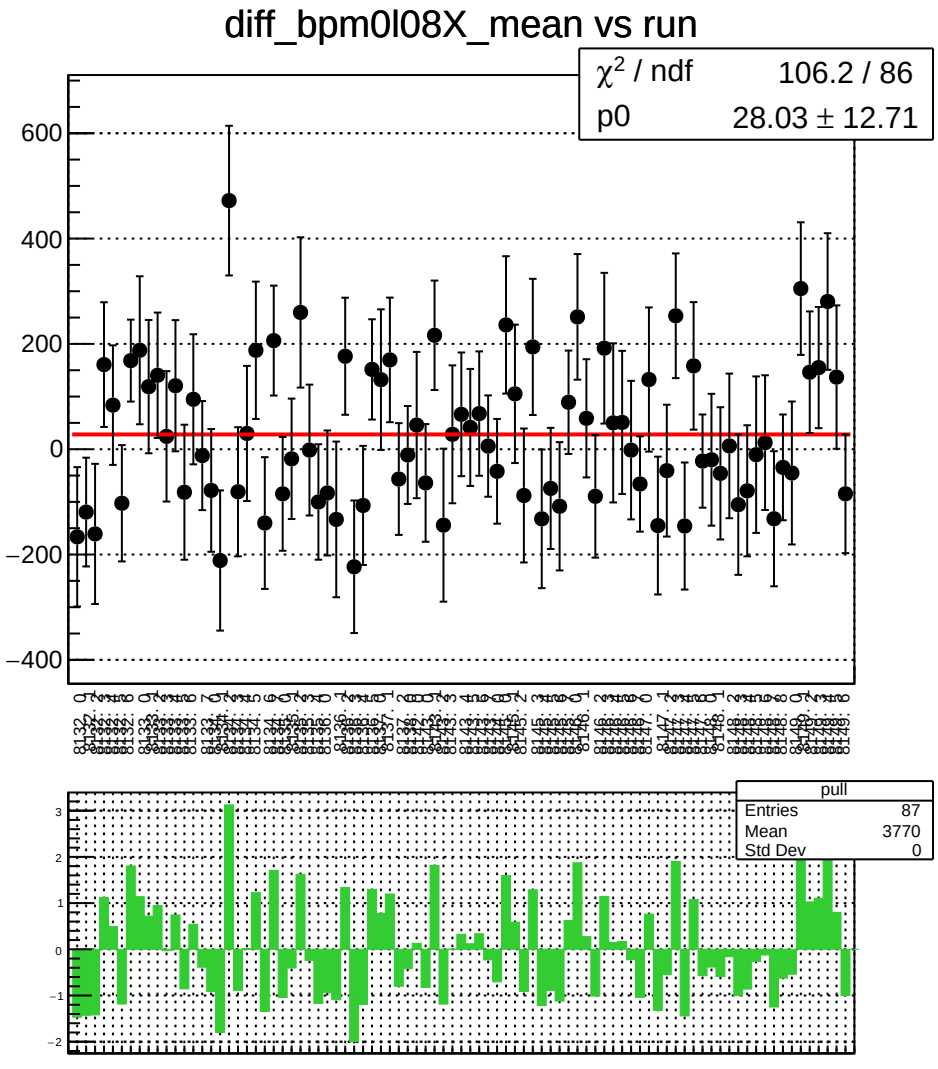

pull1D
Entries 87
Mean −0.002003
Std Dev 0.9407

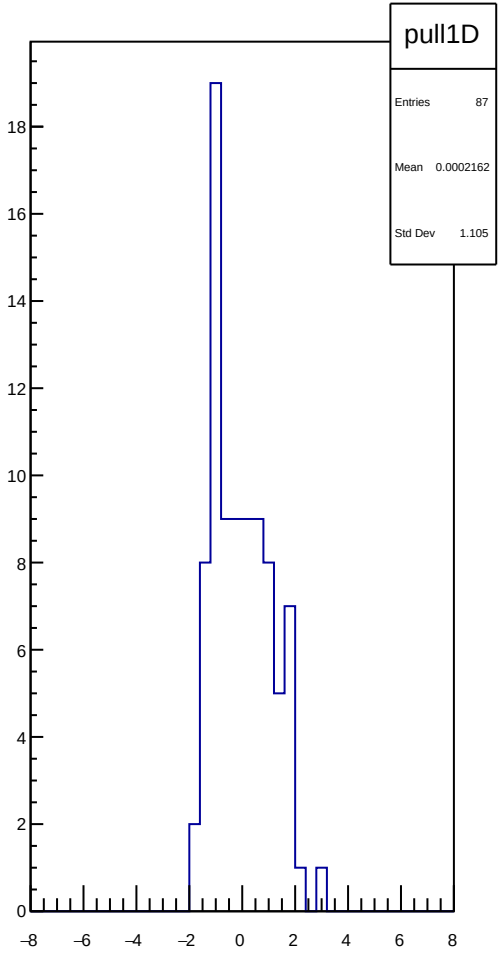

diff_bpm0l07X_rms vs run
χ² / ndf 1.601e+04 / 86
p0 9099 ± 6.973
13000
12000
11000
10000
9000
8000

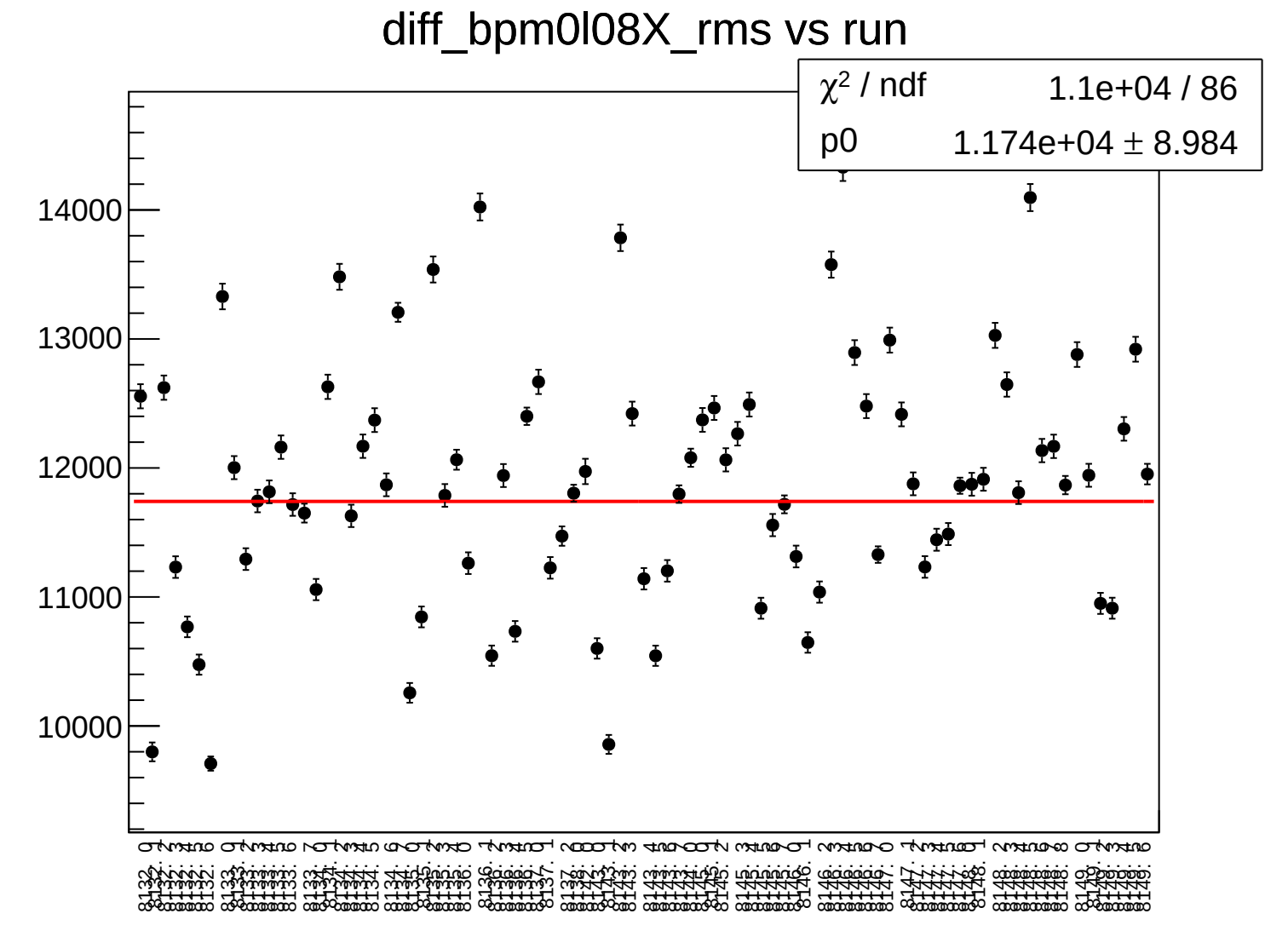

diff_bpm0l07Y_mean vs run
χ² / ndf 239.3 / 86
p0 −2.792 ± 0.961
pull
Entries 87
Mean 427.4
Std Dev 0

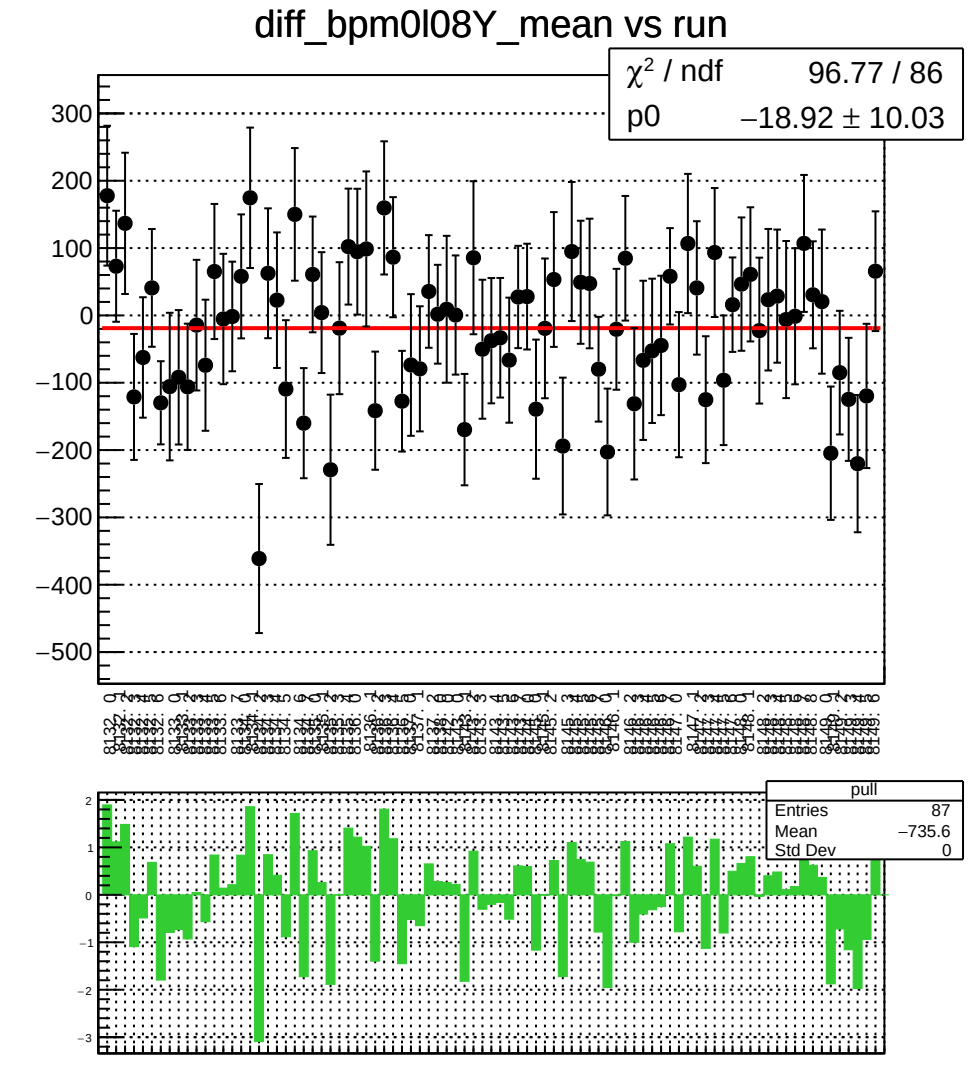

pull1D
Entries 87
Mean 0.08152
Std Dev 1.656

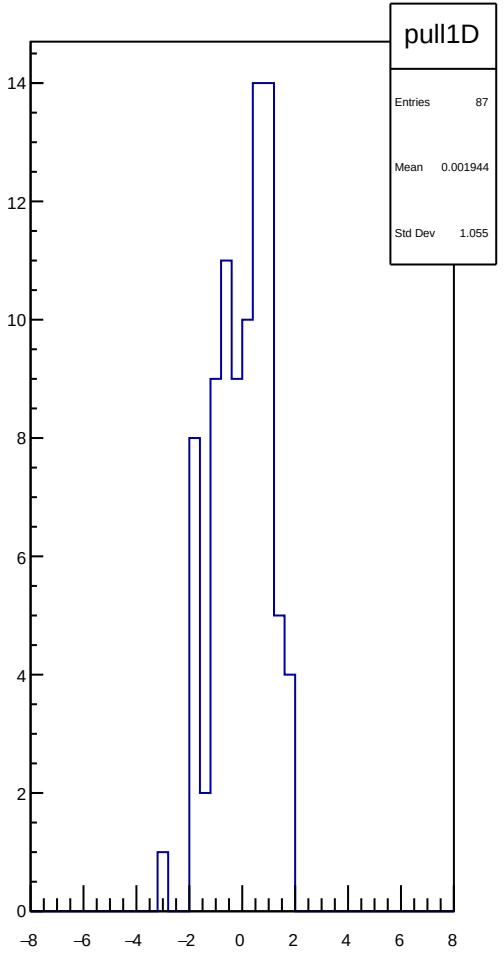

diff_bpm0l07Y_rms vs run
χ² / ndf 6342 / 86
p0 889.3 ± 0.6795
1000
950
900
850
800

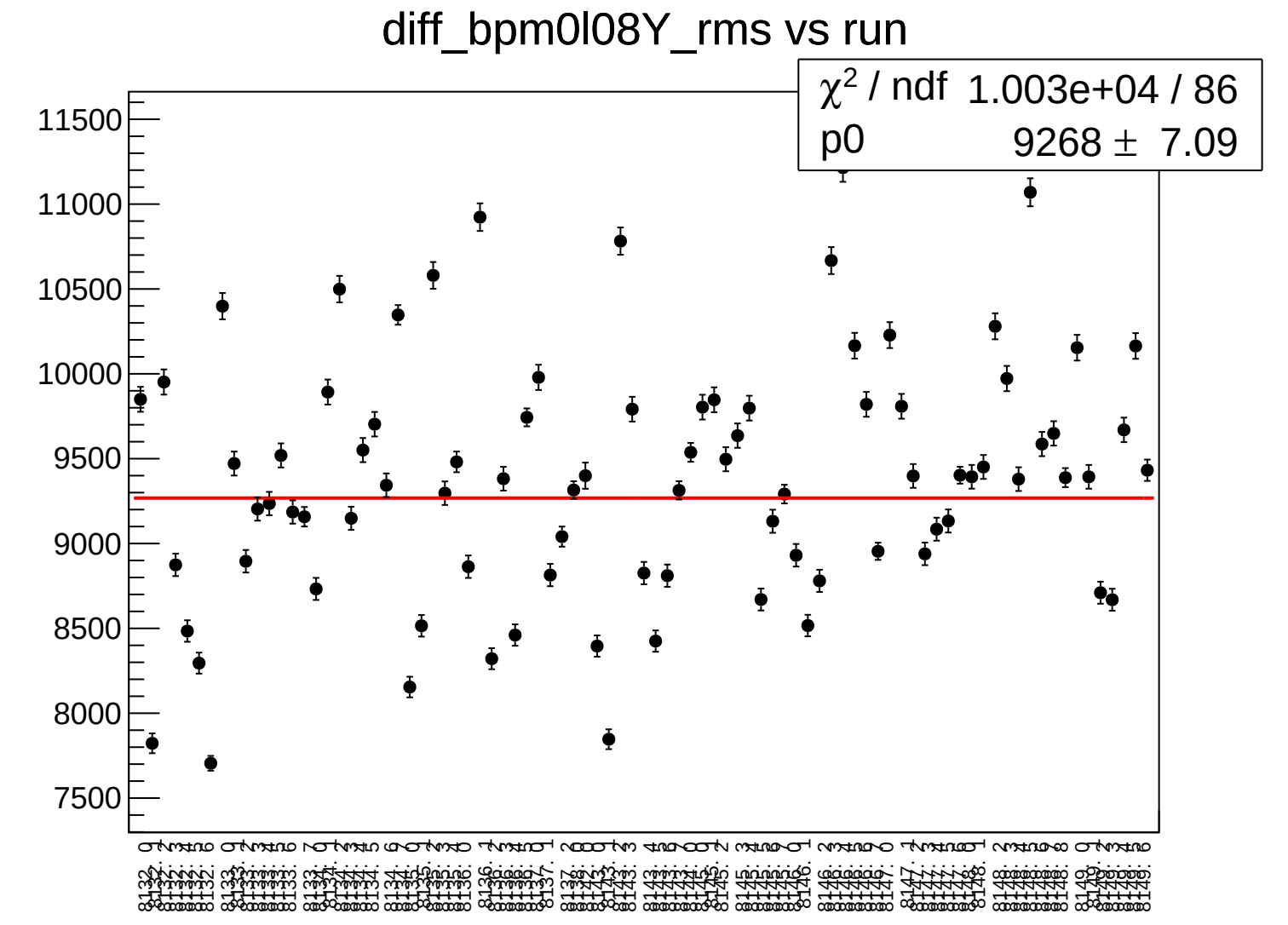

diff_bpm0l08X_mean vs run
χ^2 / ndf 106.2 / 86
p0 28.03 ± 12.71
pull
Entries 87
Mean 3770
Std Dev 0

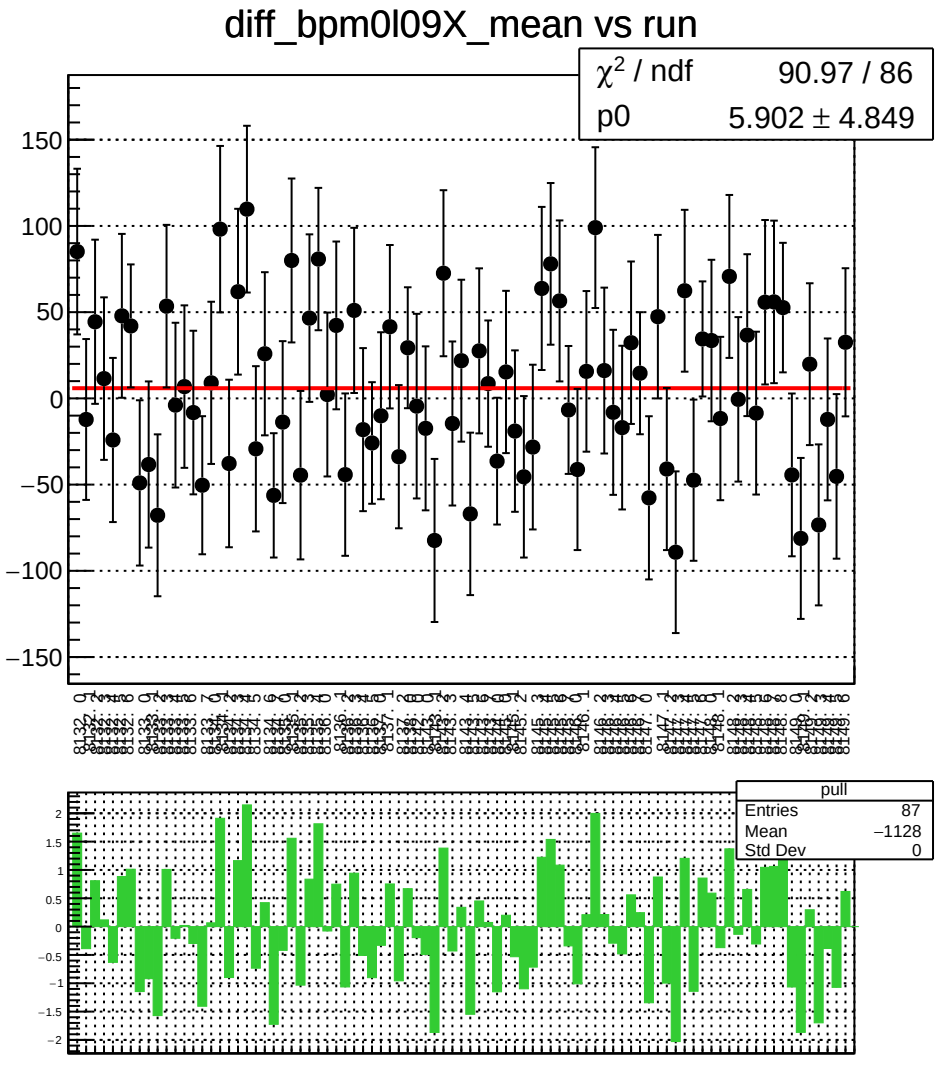

pull1D
Entries 87
Mean 0.0002162
Std Dev 1.105

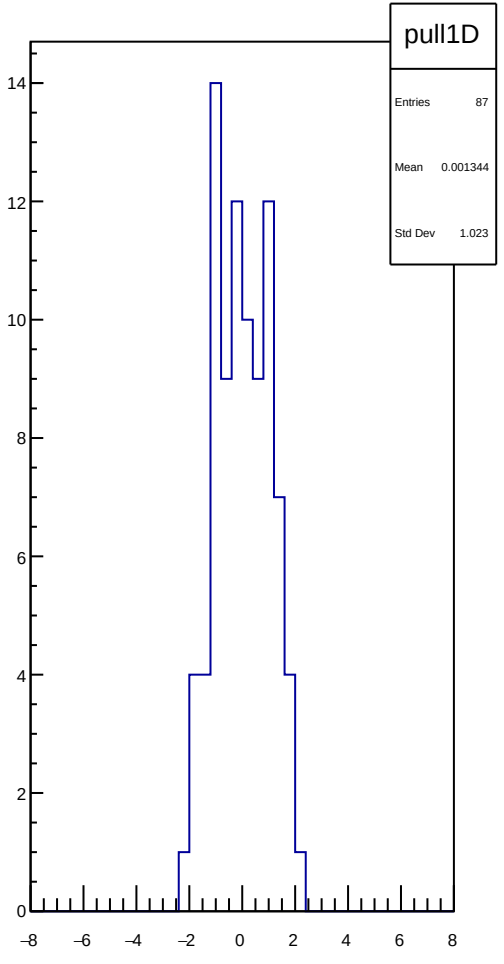

diff_bpm0l08X_rms vs run
χ² / ndf 1.1e+04 / 86
p0 1.174e+04 ± 8.984
14000
13000
12000
11000
10000

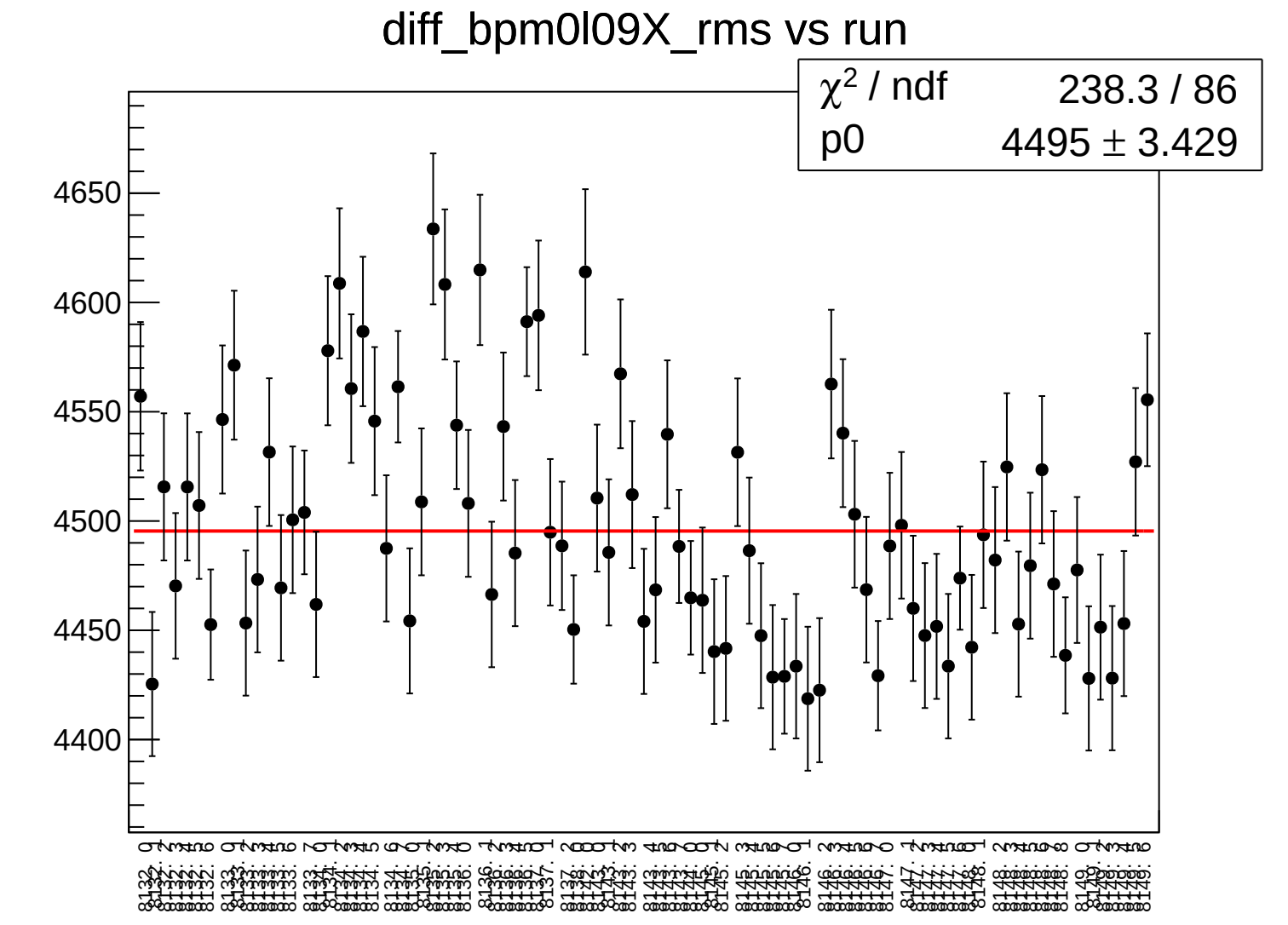

diff_bpm0l08Y_mean vs run
χ² / ndf 96.77 / 86
p0 −18.92 ± 10.03
pull
Entries 87
Mean −735.6
Std Dev 0

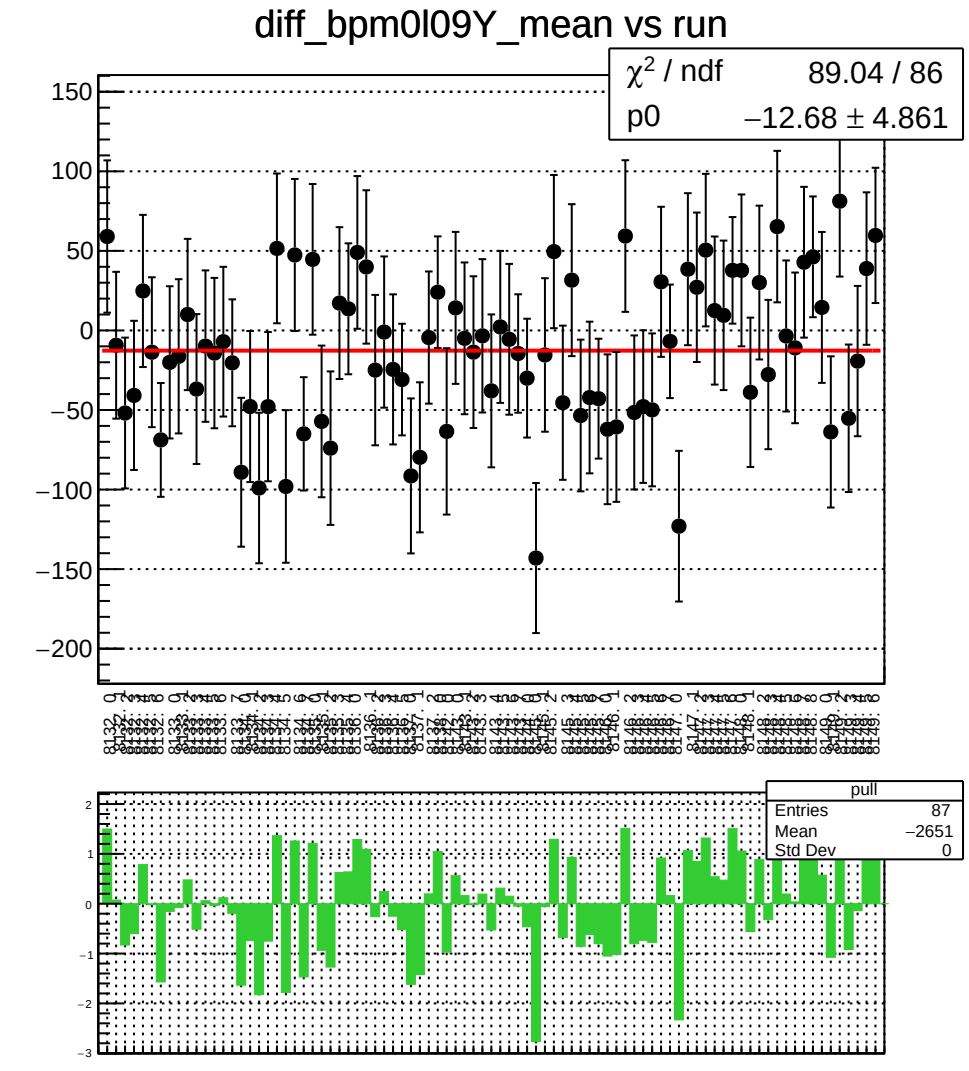

pull1D
Entries 87
Mean 0.001944
Std Dev 1.055

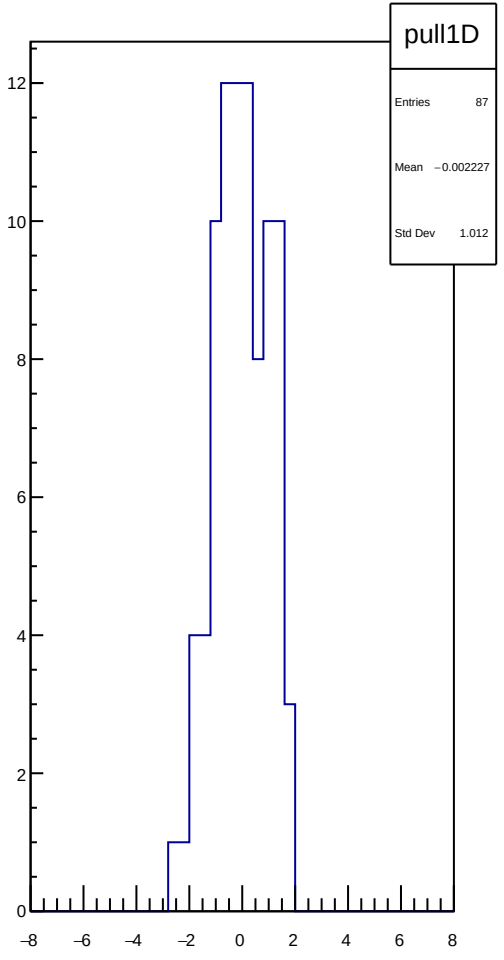

diff_bpm0l08Y_rms vs run
χ² / ndf 1.003e+04 / 86
p0 9268 ± 7.09
11500
11000
10500
10000
9500
9000
8500
8000
7500

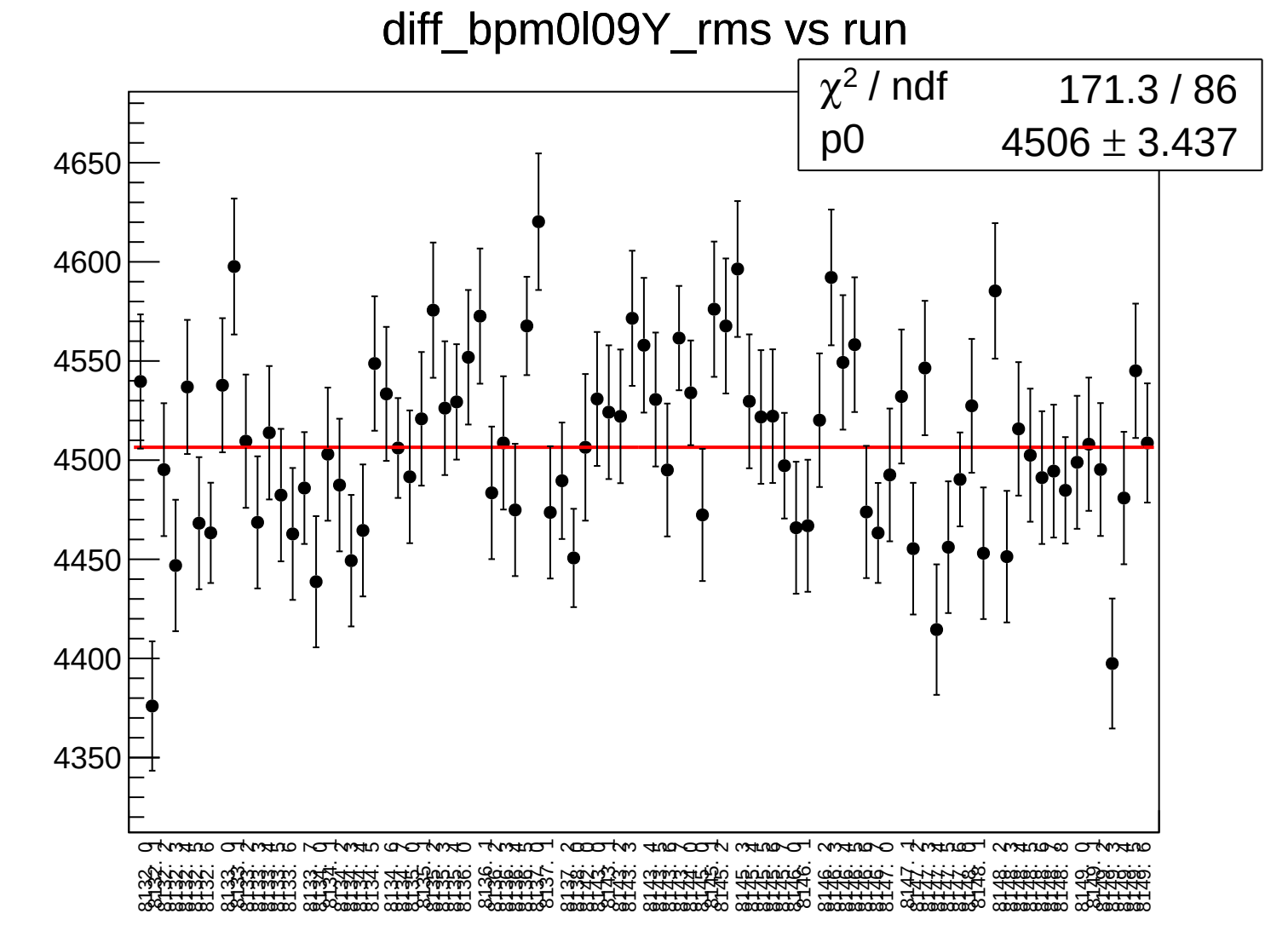

diff_bpm0l09X_mean vs run
χ² / ndf 90.97 / 86
p0 5.902 ± 4.849
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean −1128
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

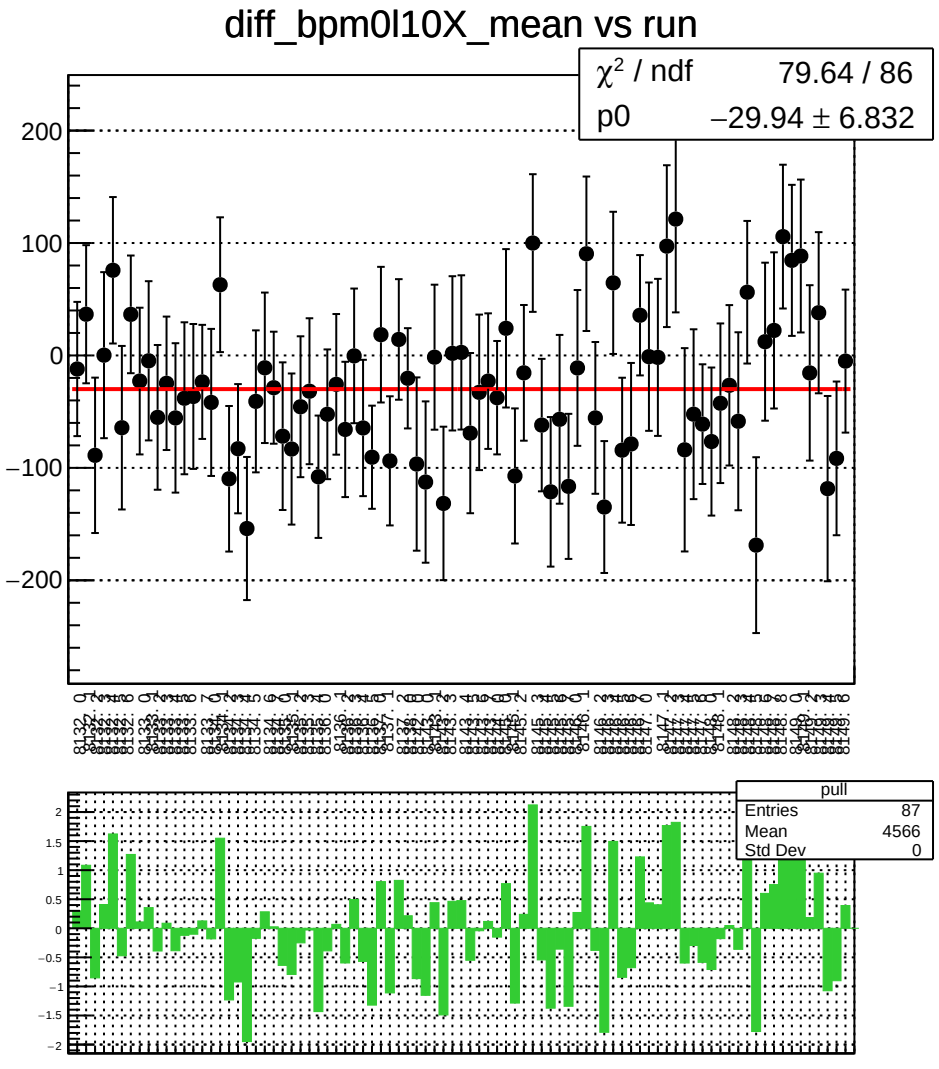

pull1D
Entries 87
Mean 0.001344
Std Dev 1.023
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

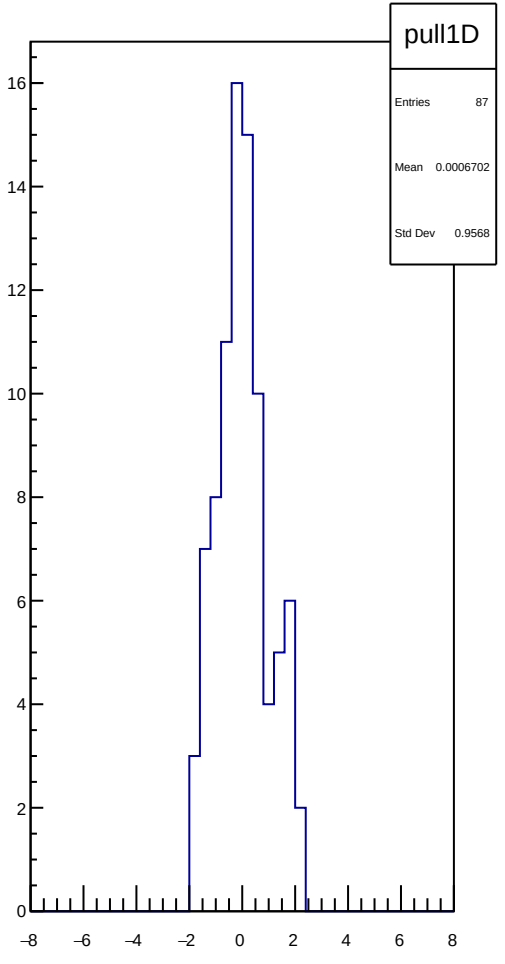

diff_bpm0l09X_rms vs run
χ² / ndf 238.3 / 86
p0 4495 ± 3.429
4650
4600
4550
4500
4450
4400

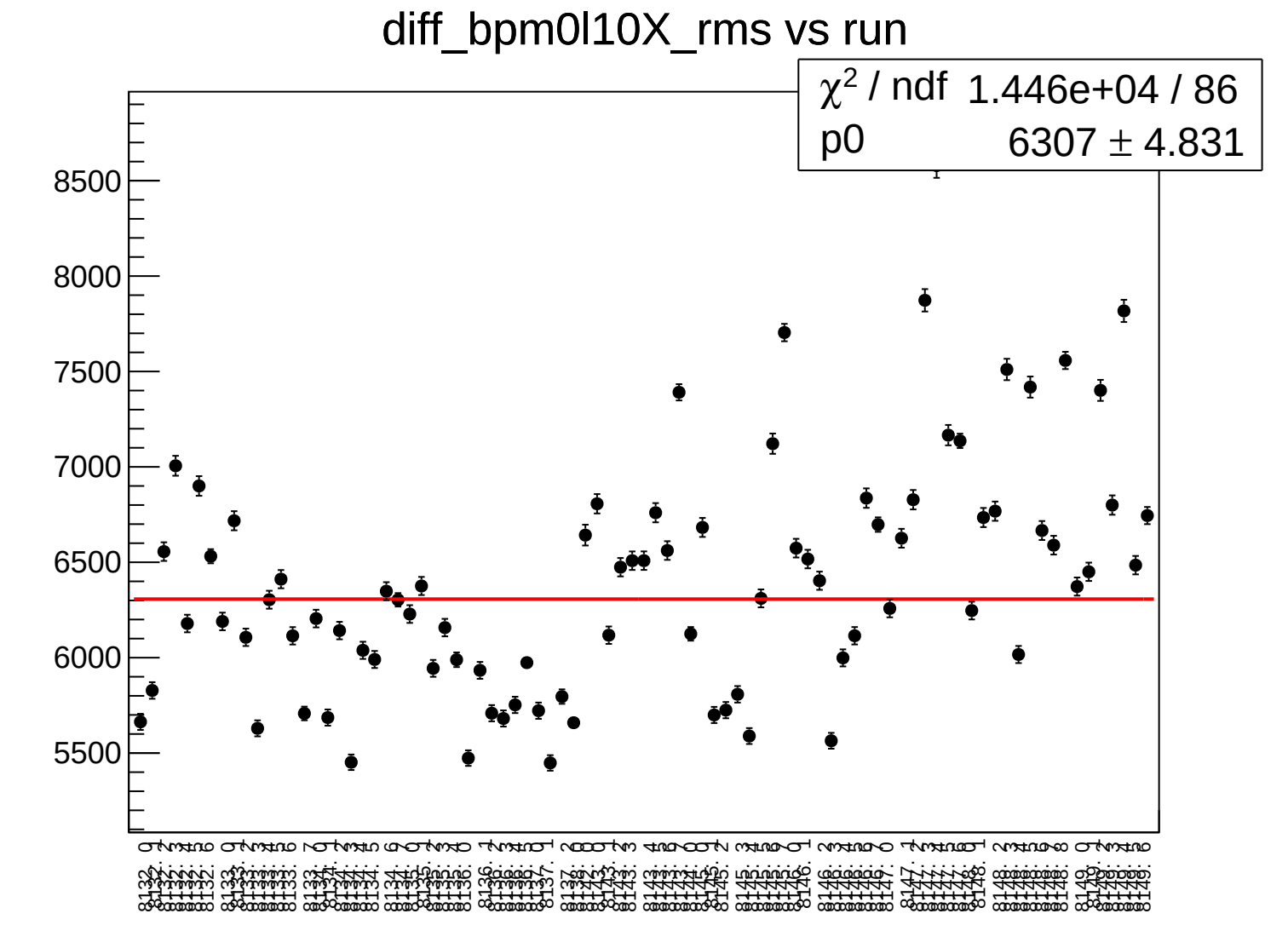

diff_bpm0l09Y_mean vs run
χ² / ndf 89.04 / 86
p0 −12.68 ± 4.861
pull
Entries 87
Mean −2651
Std Dev 0

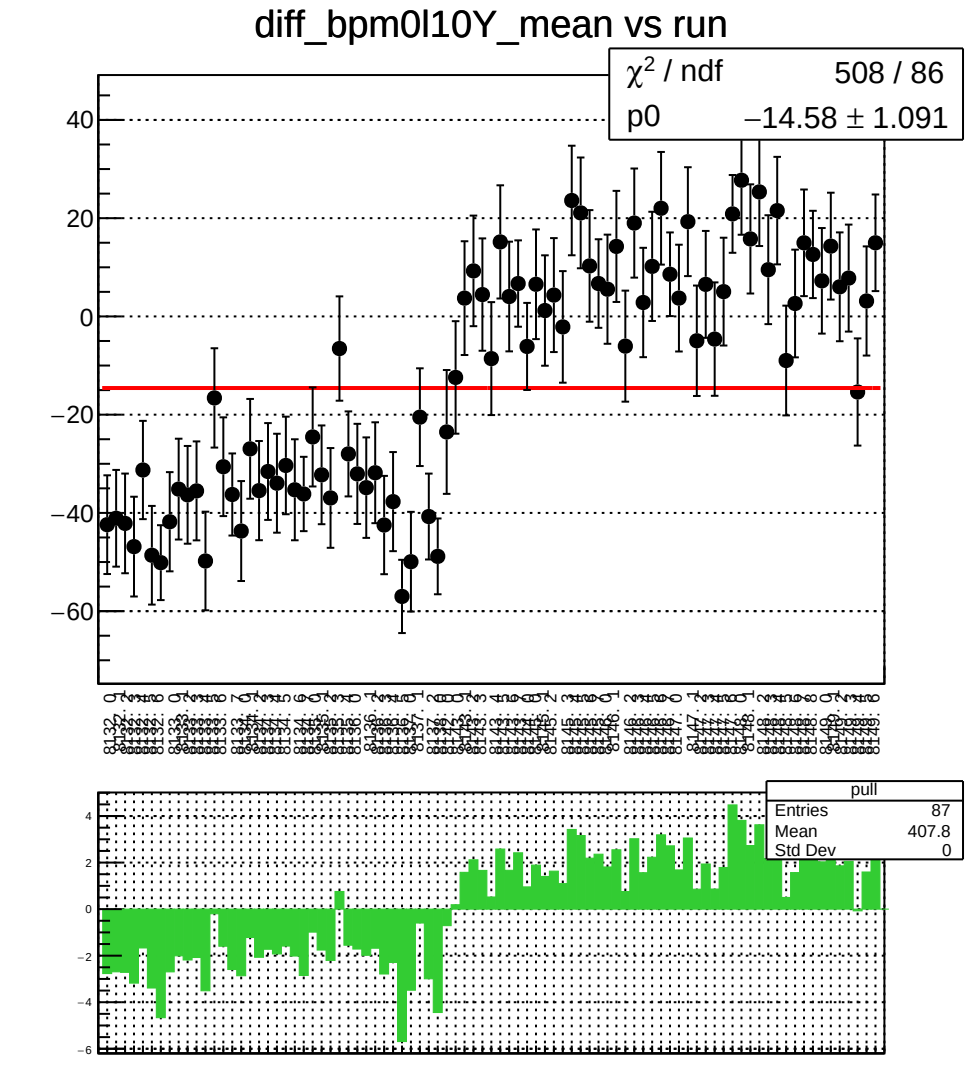

pull1D
Entries 87
Mean −0.002227
Std Dev 1.012

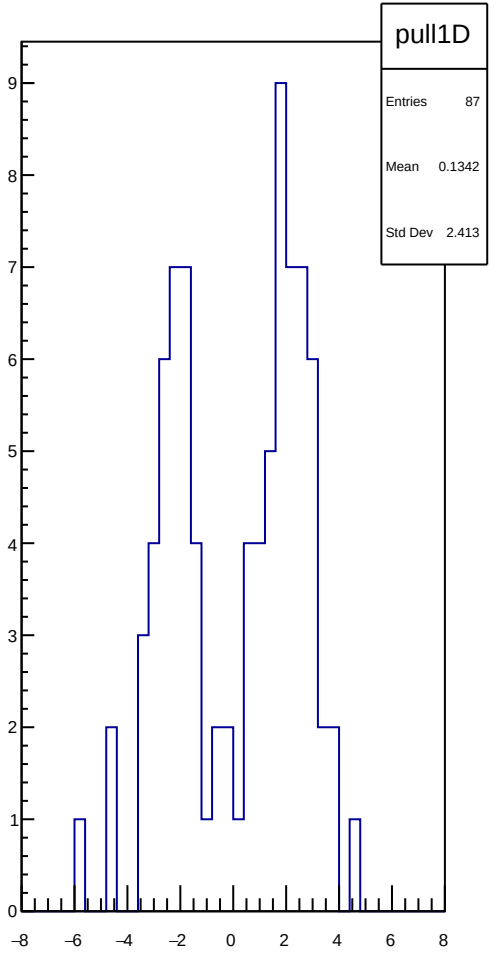

diff_bpm0l09Y_rms vs run
χ² / ndf 171.3 / 86
p0 4506 ± 3.437
4650
4600
4550
4500
4450
4400
4350

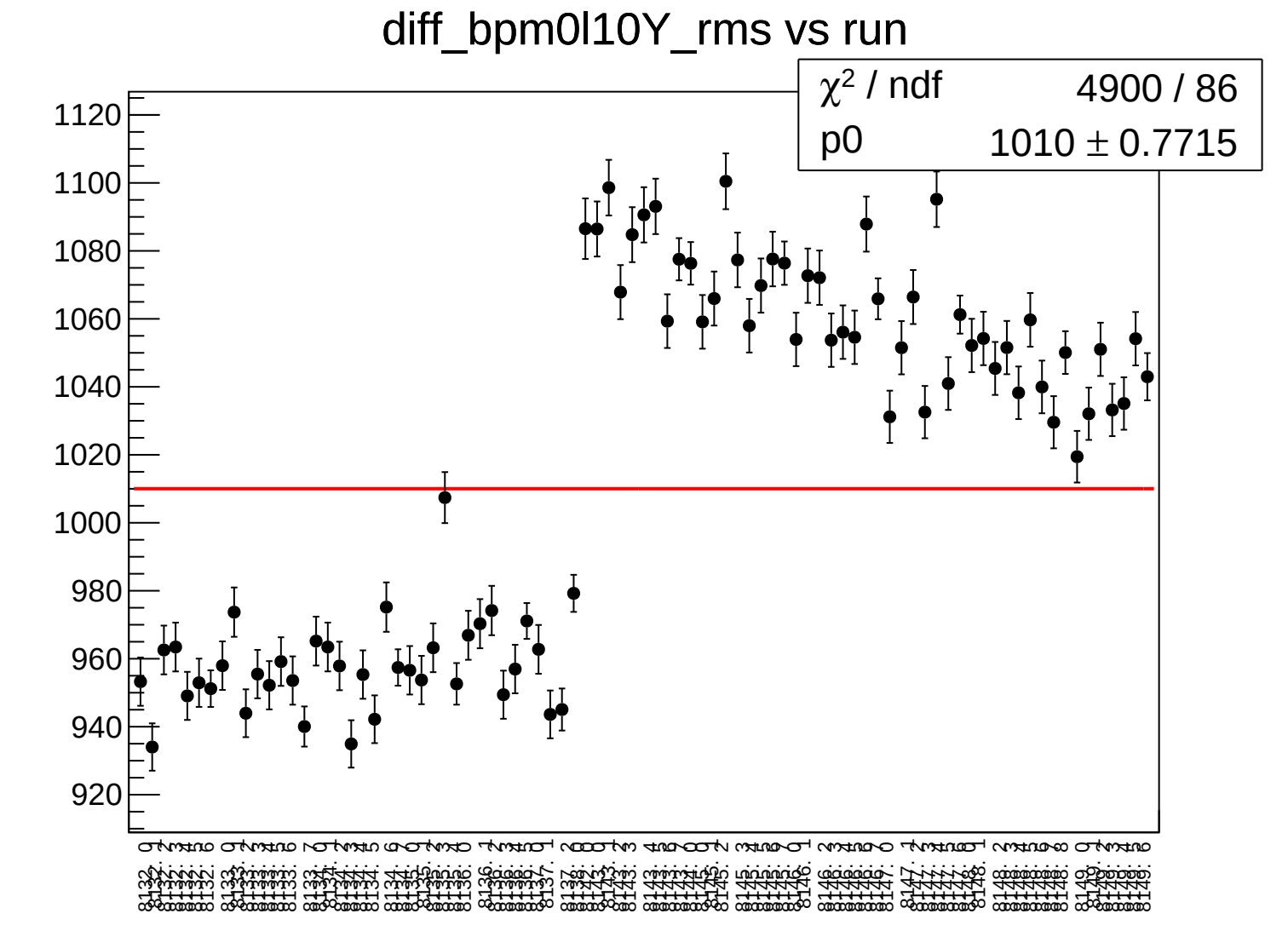

diff_bpm0l10X_mean vs run
χ² / ndf 79.64 / 86
p0 −29.94 ± 6.832
200
100
0
−100
−200
pull
Entries 87
Mean 4566
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

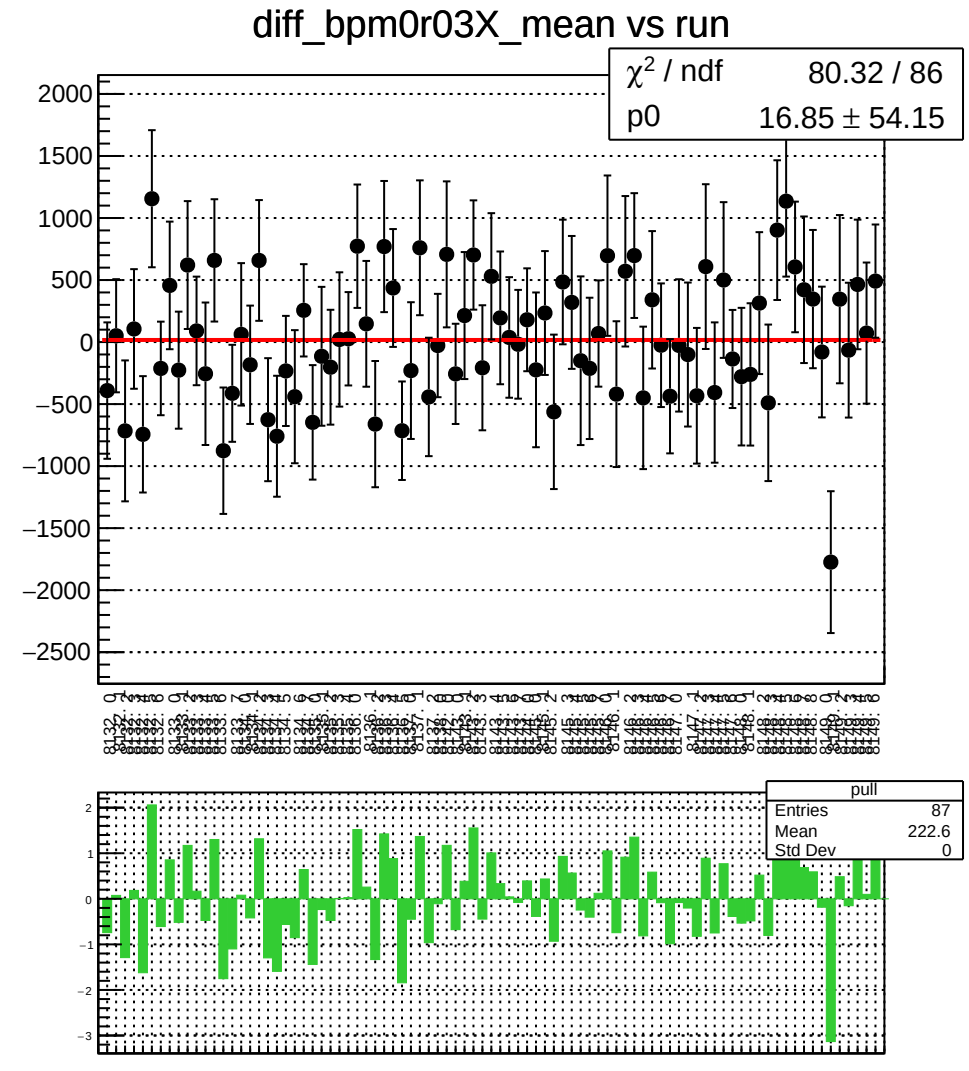

pull1D
Entries 87
Mean 0.0006702
Std Dev 0.9568
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

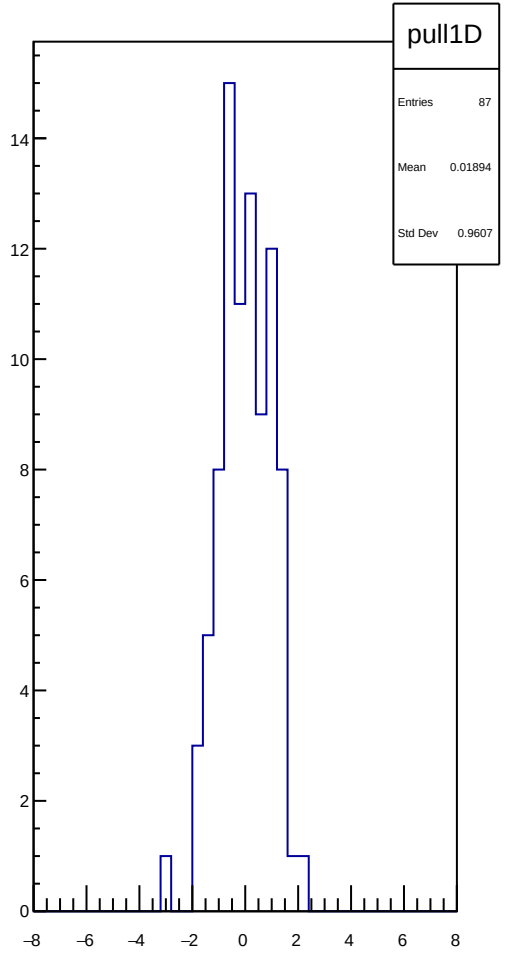

diff_bpm0l10X_rms vs run
χ² / ndf 1.446e+04 / 86
p0 6307 ± 4.831
8500
8000
7500
7000
6500
6000
5500

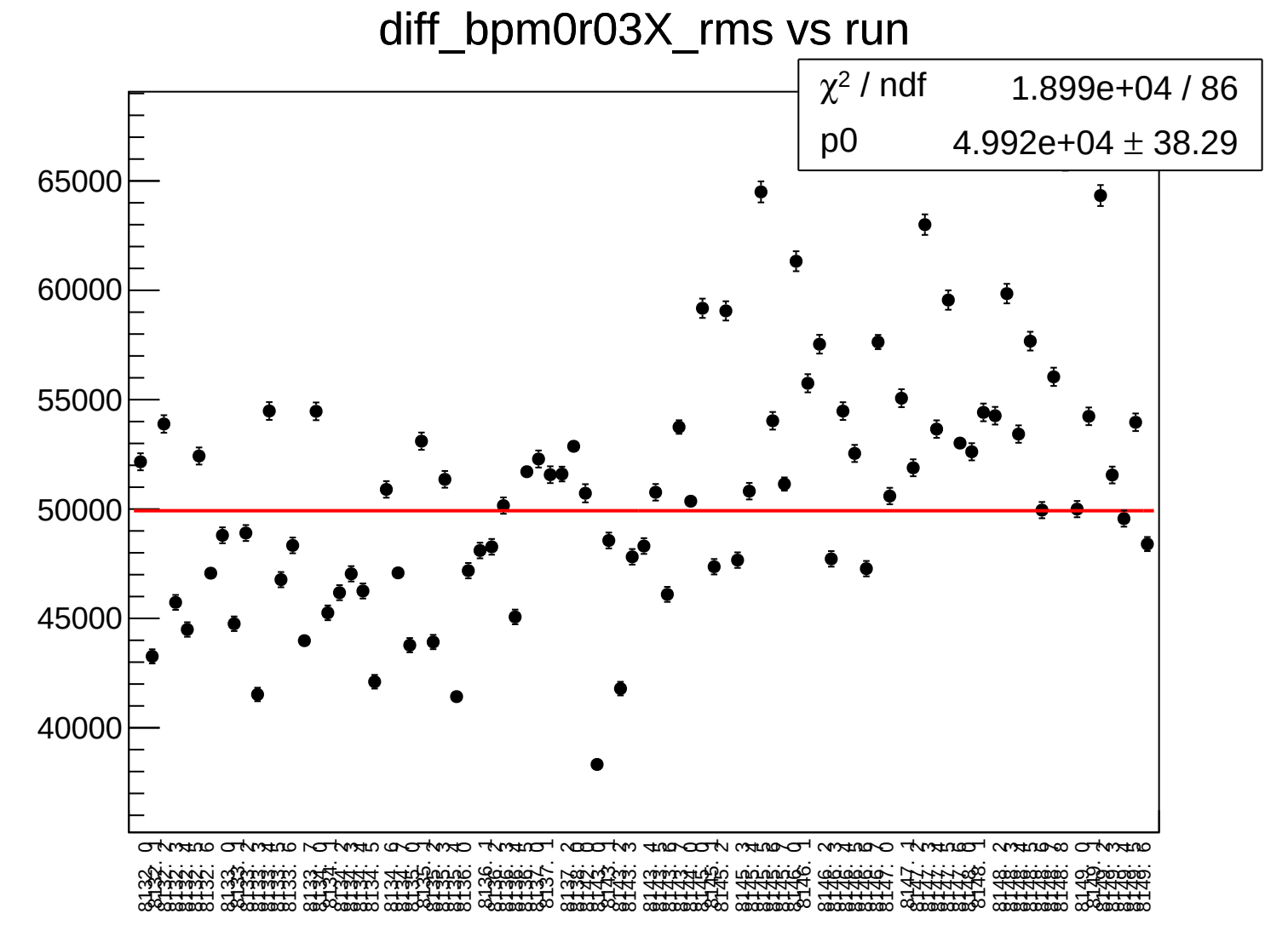

diff_bpm0l10Y_mean vs run
χ² / ndf 508 / 86
p0 −14.58 ± 1.091
pull
Entries 87
Mean 407.8
Std Dev 0

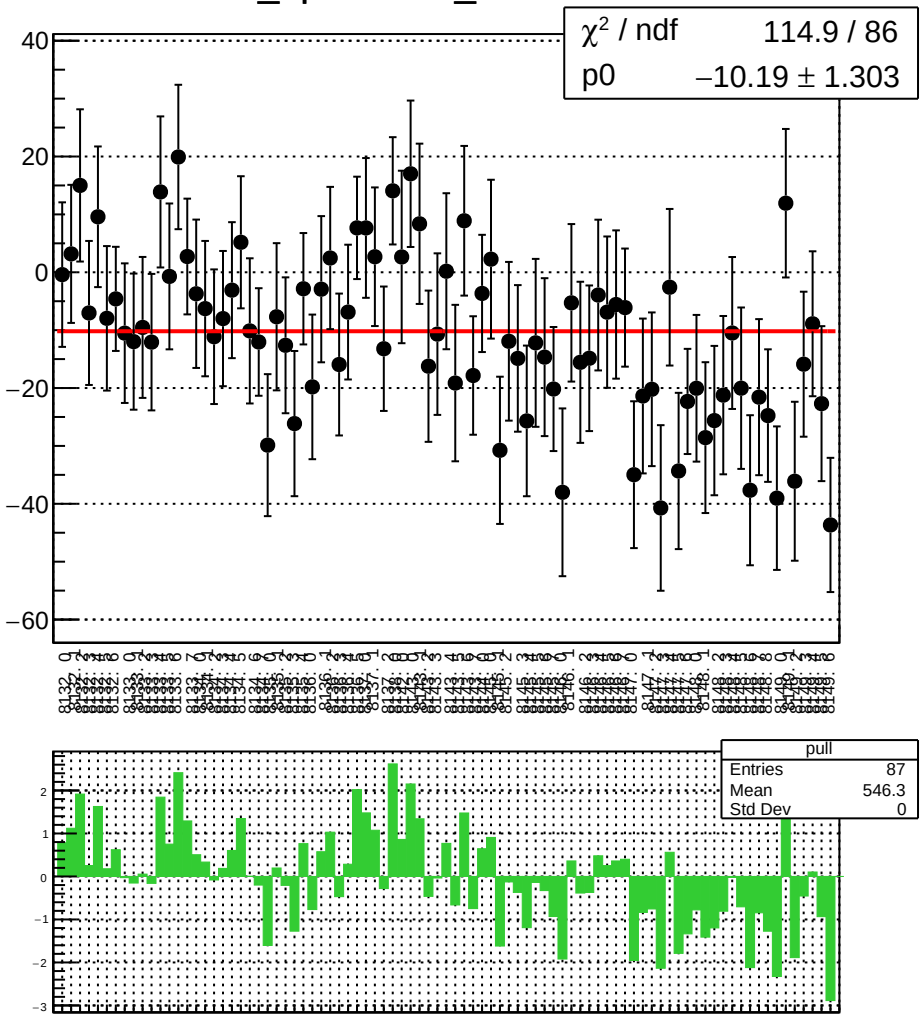

pull1D
Entries 87
Mean 0.1342
Std Dev 2.413

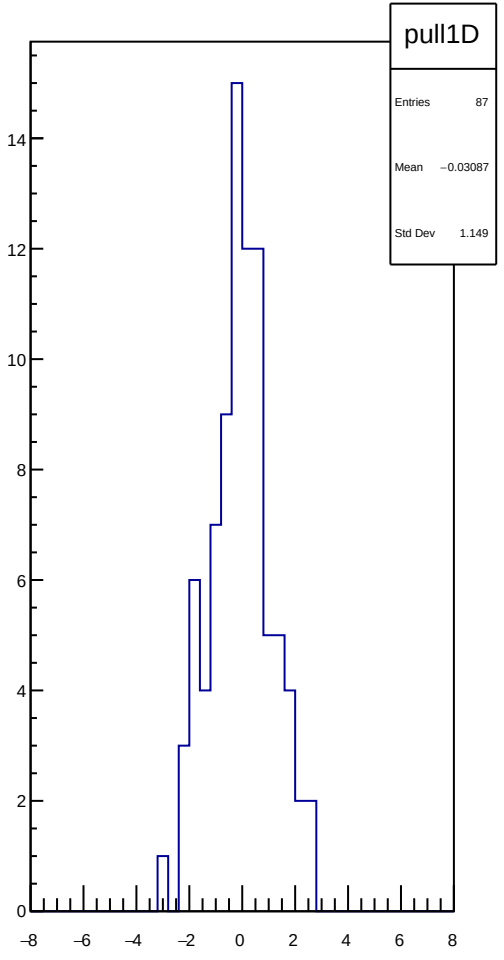

diff_bpm0l10Y_rms vs run
χ² / ndf 4900 / 86
p0 1010 ± 0.7715
1120
1100
1080
1060
1040
1020
1000
980
960
940
920

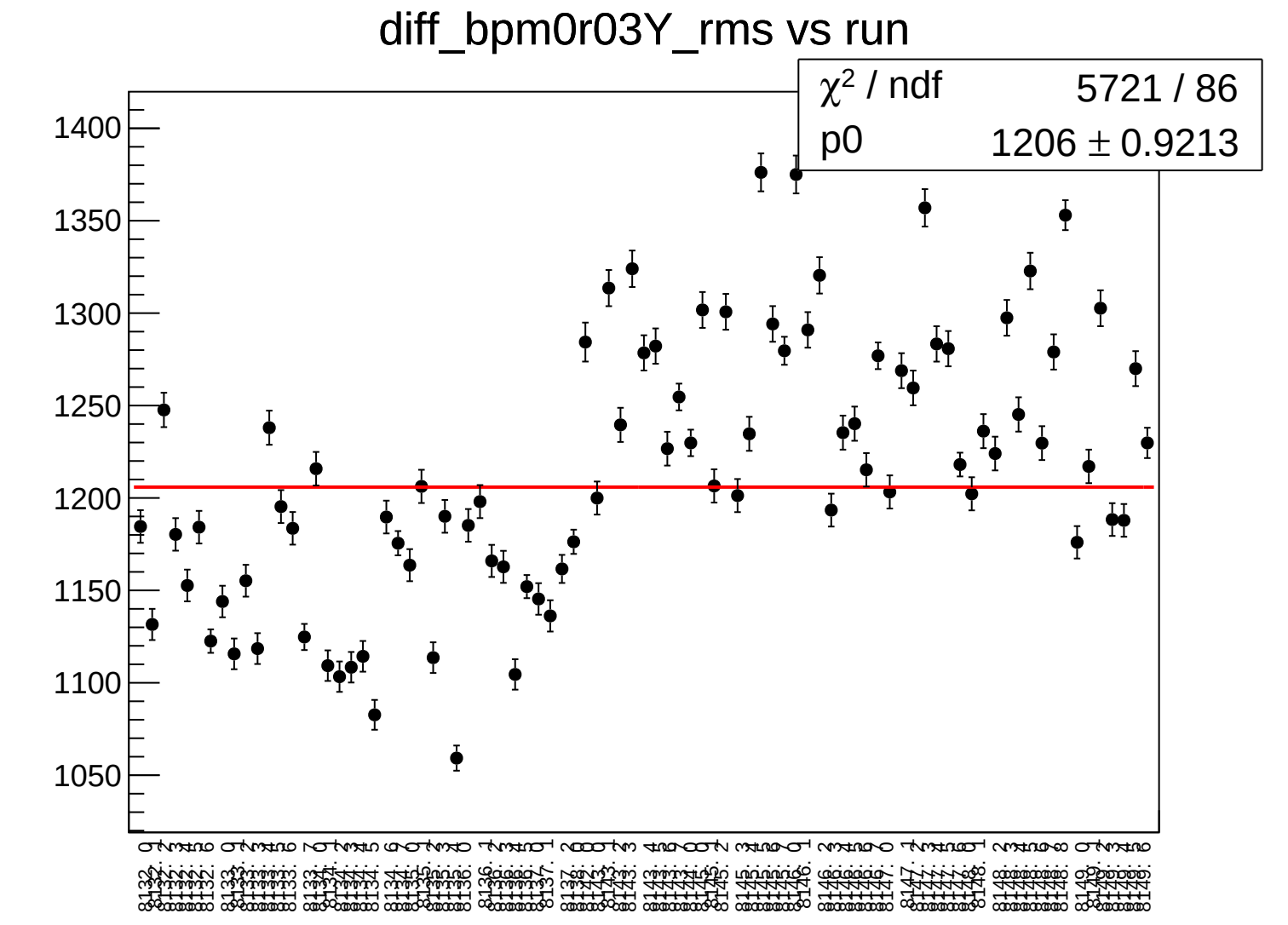

diff_bpm0r03X_mean vs run
χ² / ndf 80.32 / 86
p0 16.85 ± 54.15
pull
Entries 87
Mean 222.6
Std Dev 0

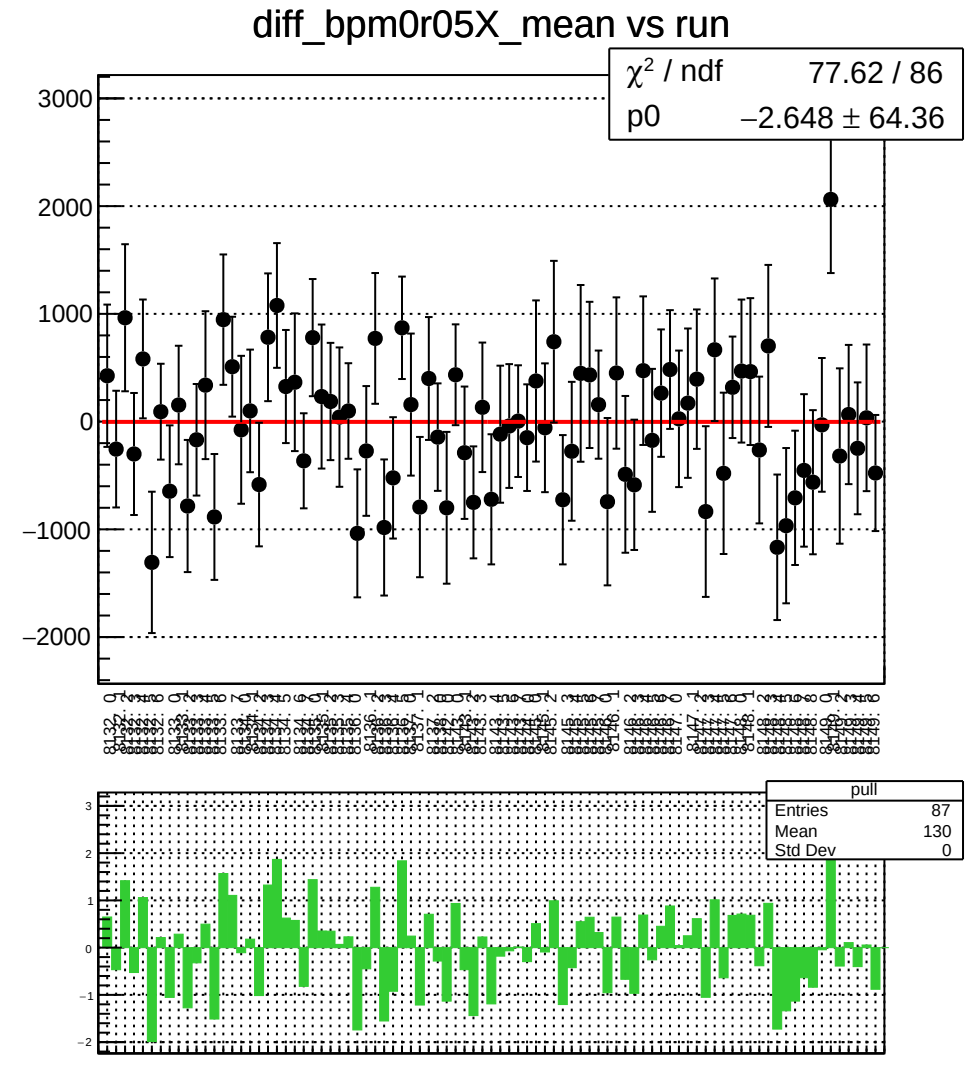

pull1D
Entries 87
Mean 0.01894
Std Dev 0.9607

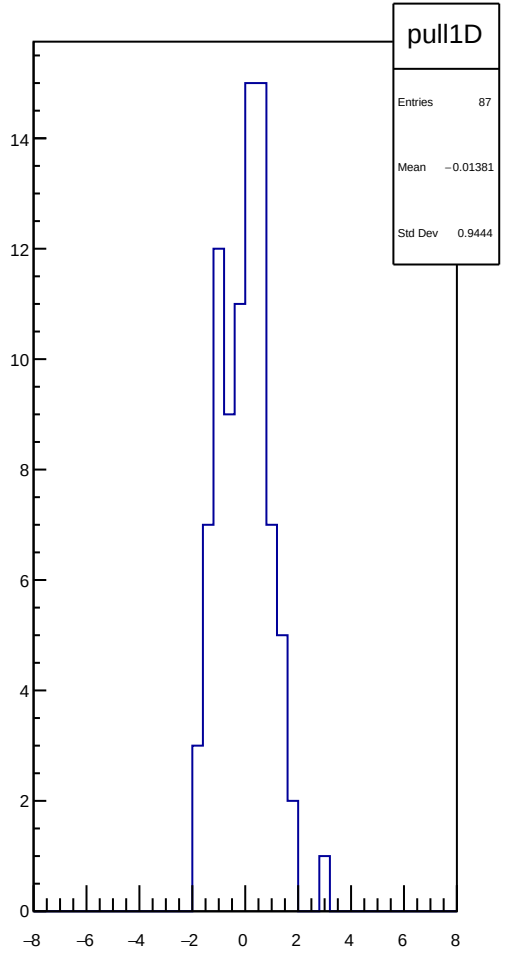

diff_bpm0r03X_rms vs run
χ² / ndf 1.899e+04 / 86
p0 4.992e+04 ± 38.29
65000
60000
55000
50000
45000
40000


diff_bpm0r03Y_mean vs run
χ² / ndf 114.9 / 86
p0 −10.19 ± 1.303
pull
Entries 87
Mean 546.3
Std Dev 0

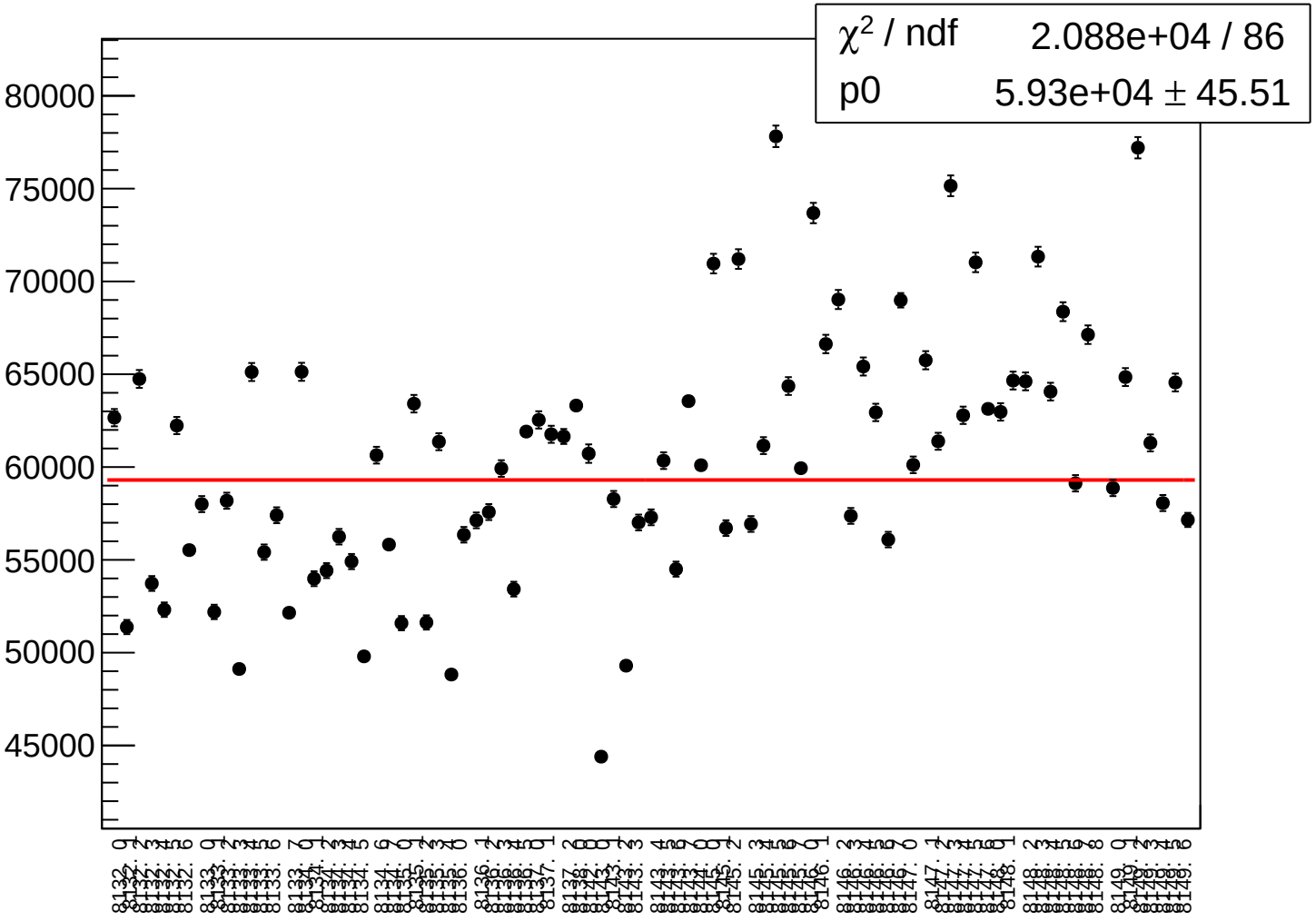

pull1D
Entries 87
Mean −0.03087
Std Dev 1.149

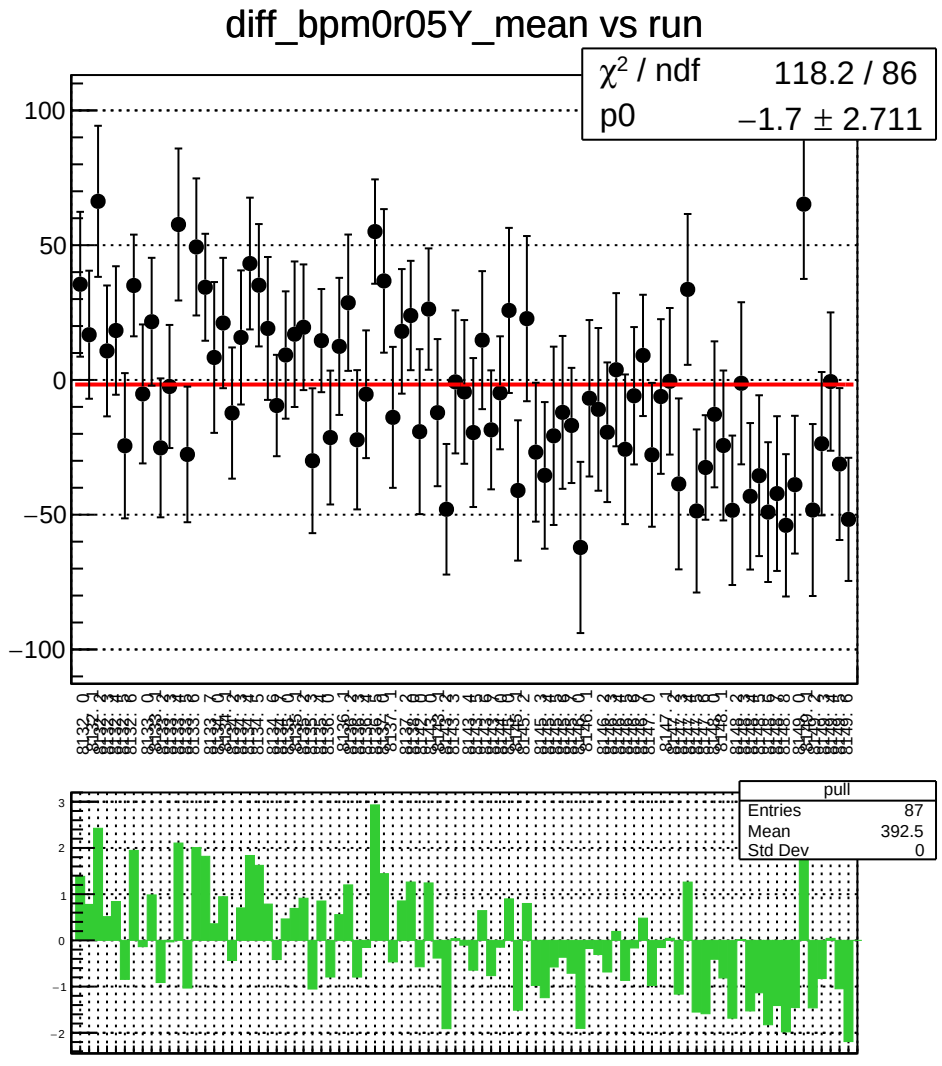

diff_bpm0r03Y_rms vs run
χ² / ndf 5721 / 86
p0 1206 ± 0.9213
1400
1350
1300
1250
1200
1150
1100
1050

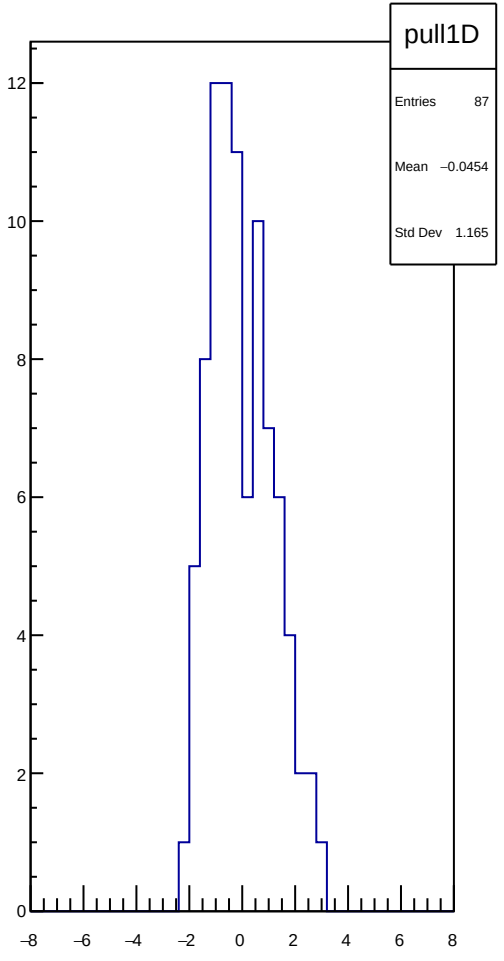

diff_bpm0r05X_mean vs run
χ² / ndf 77.62 / 86
p0 −2.648 ± 64.36
pull
Entries 87
Mean 130
Std Dev 0

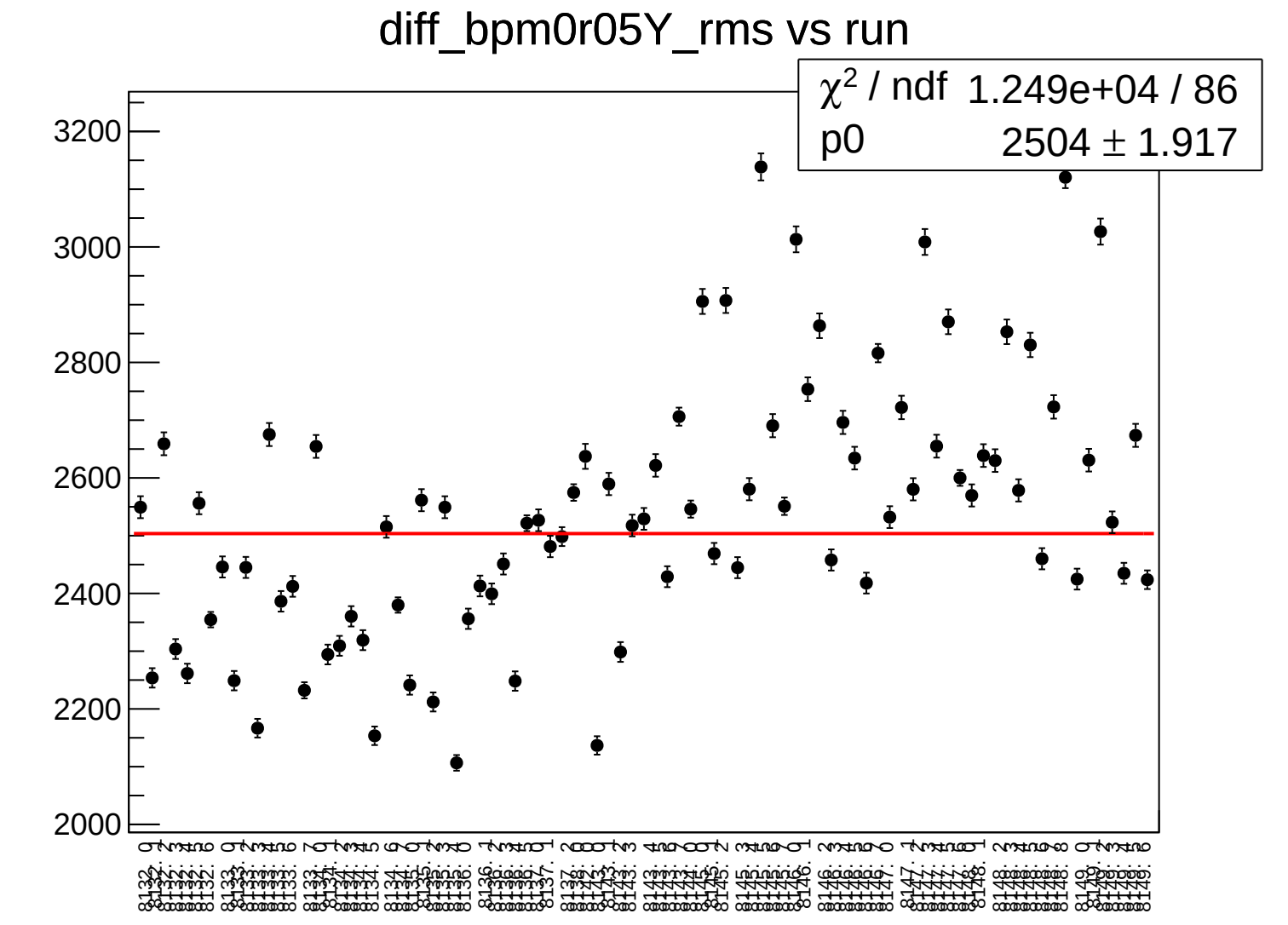

pull1D
Entries 87
Mean −0.01381
Std Dev 0.9444

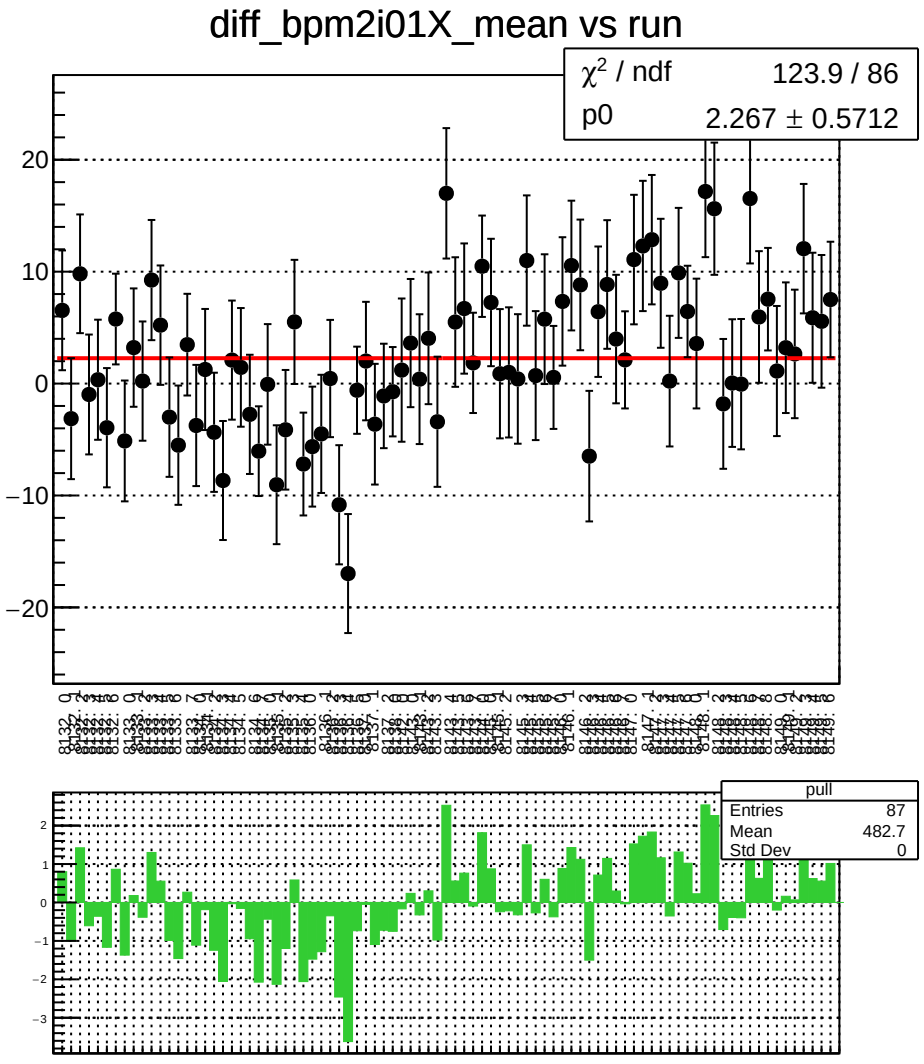
diff_bpm0r05X_rms vs run

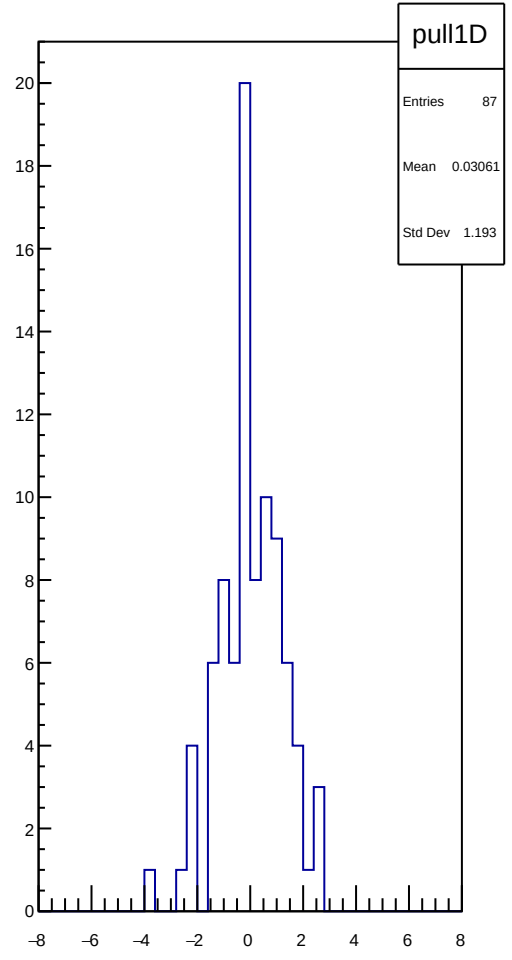


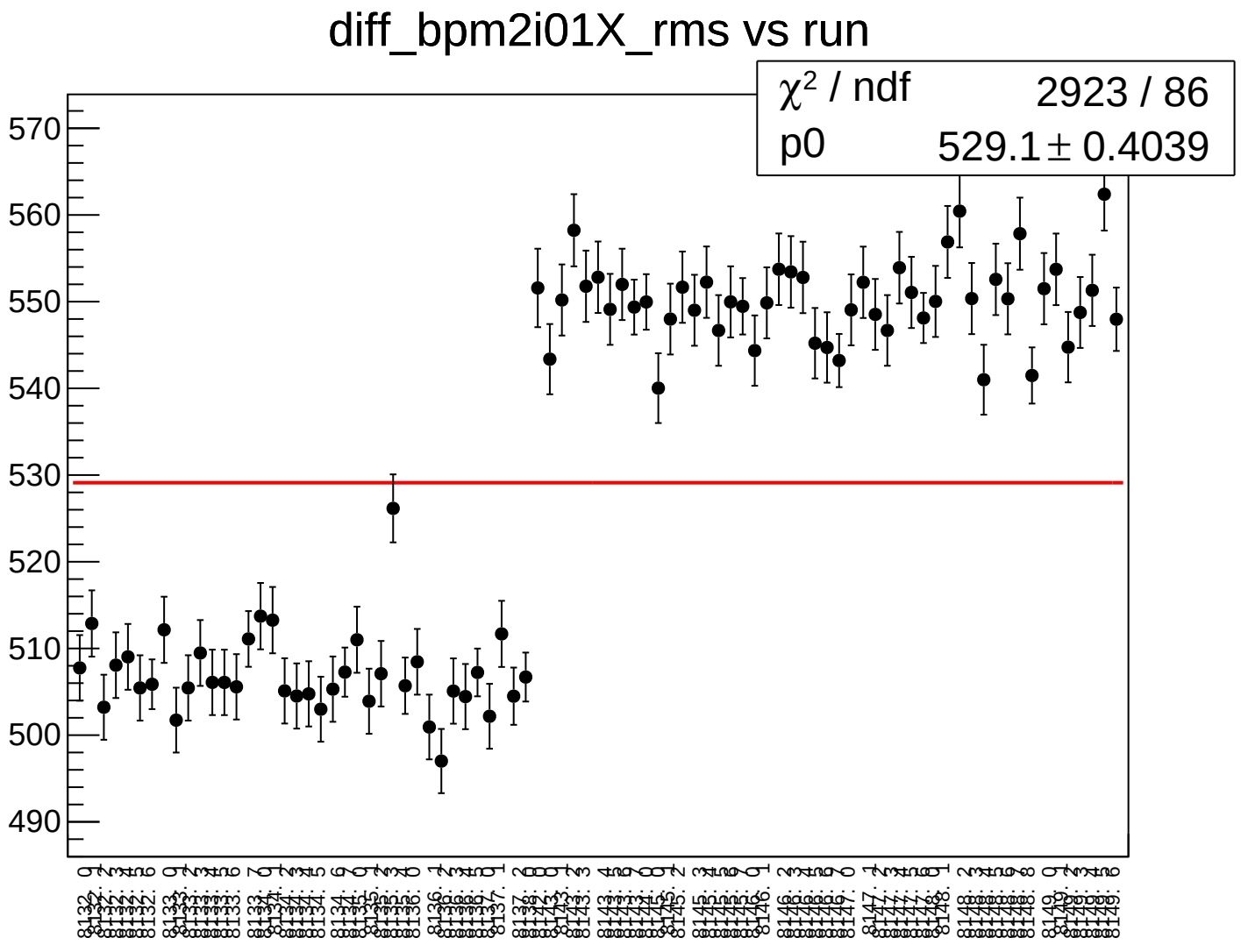

diff_bpm0r05Y_mean vs run
χ² / ndf 118.2 / 86
p0 −1.7 ± 2.711
100
50
0
−50
−100
pull
Entries 87
Mean 392.5
Std Dev 0
3
2
1
0
−1
−2

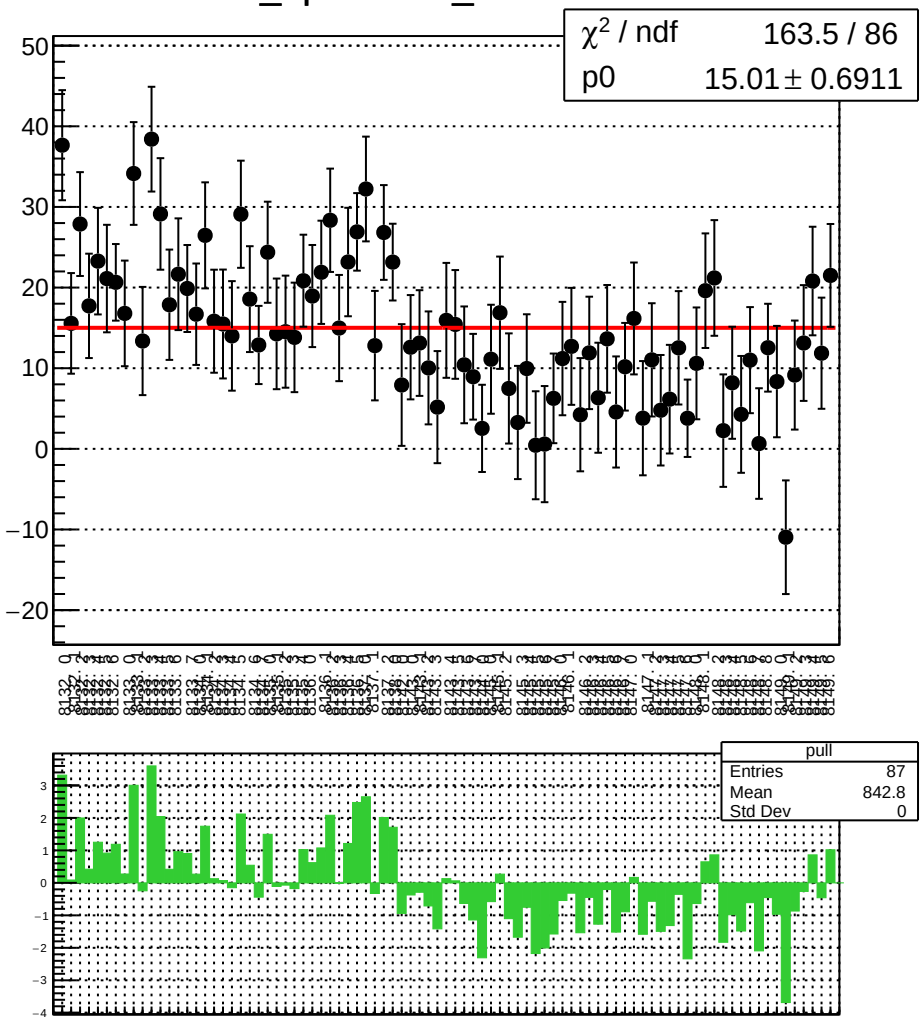

pull1D
Entries 87
Mean −0.0454
Std Dev 1.165
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

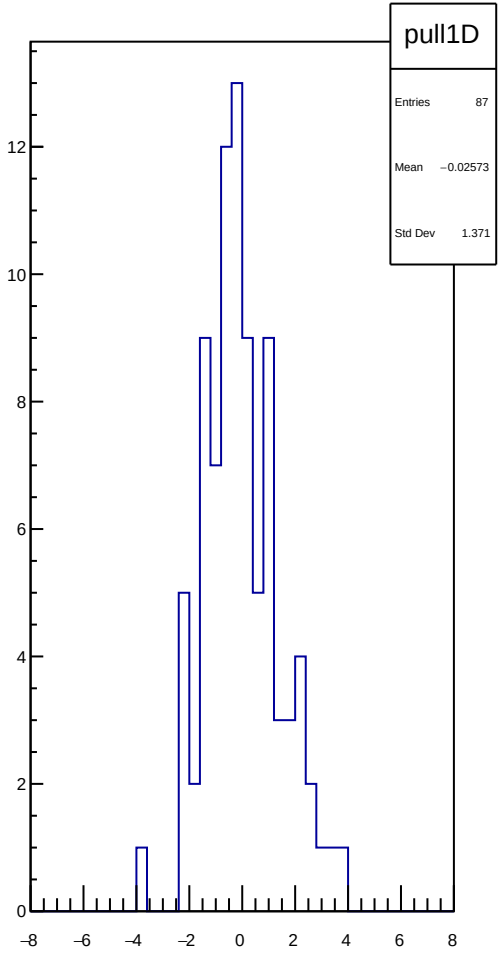

diff_bpm0r05Y_rms vs run
χ² / ndf 1.249e+04 / 86
p0 2504 ± 1.917
3200
3000
2800
2600
2400
2200
2000

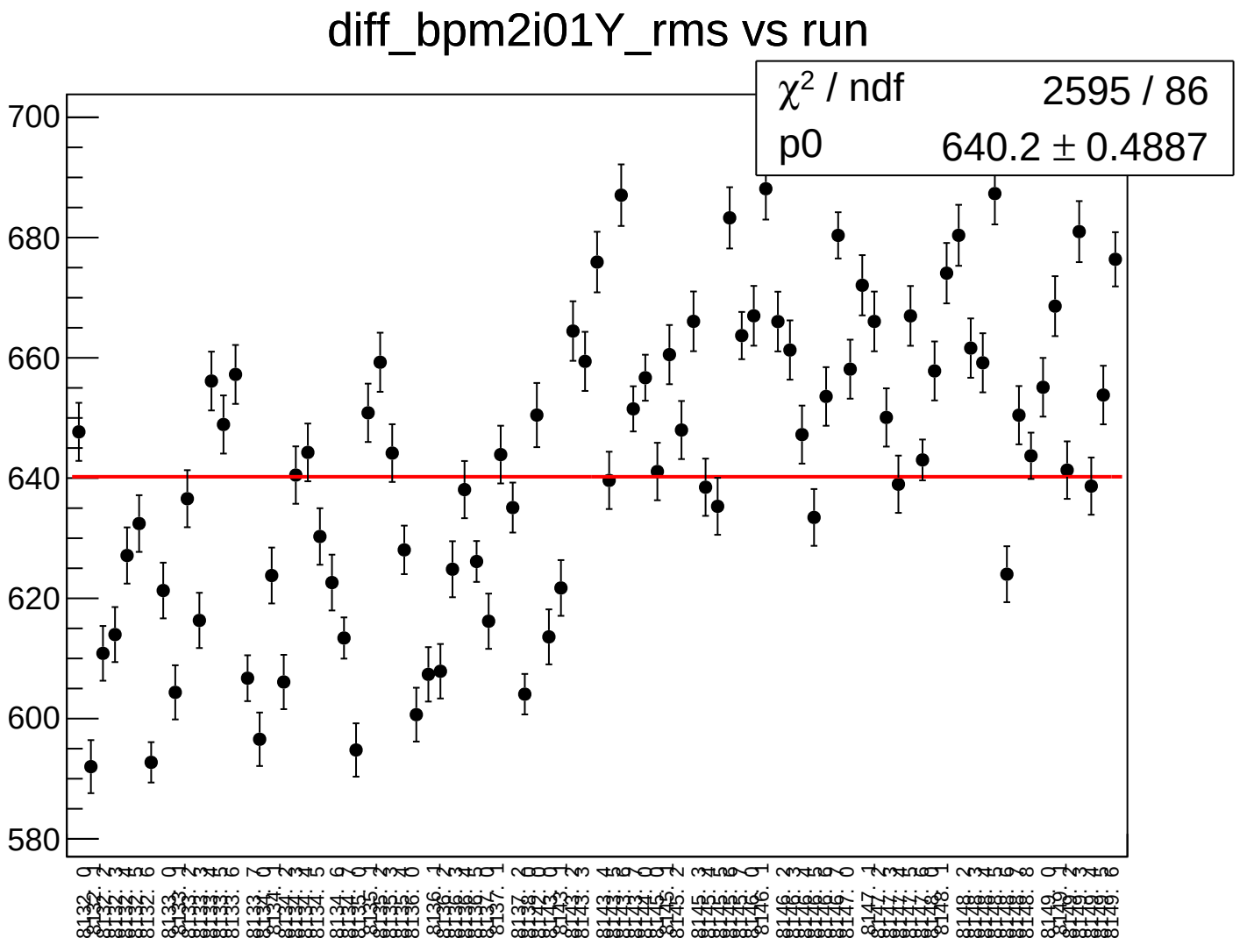

diff_bpm2i01X_mean vs run
χ² / ndf 123.9 / 86
p0 2.267 ± 0.5712
pull
Entries 87
Mean 482.7
Std Dev 0

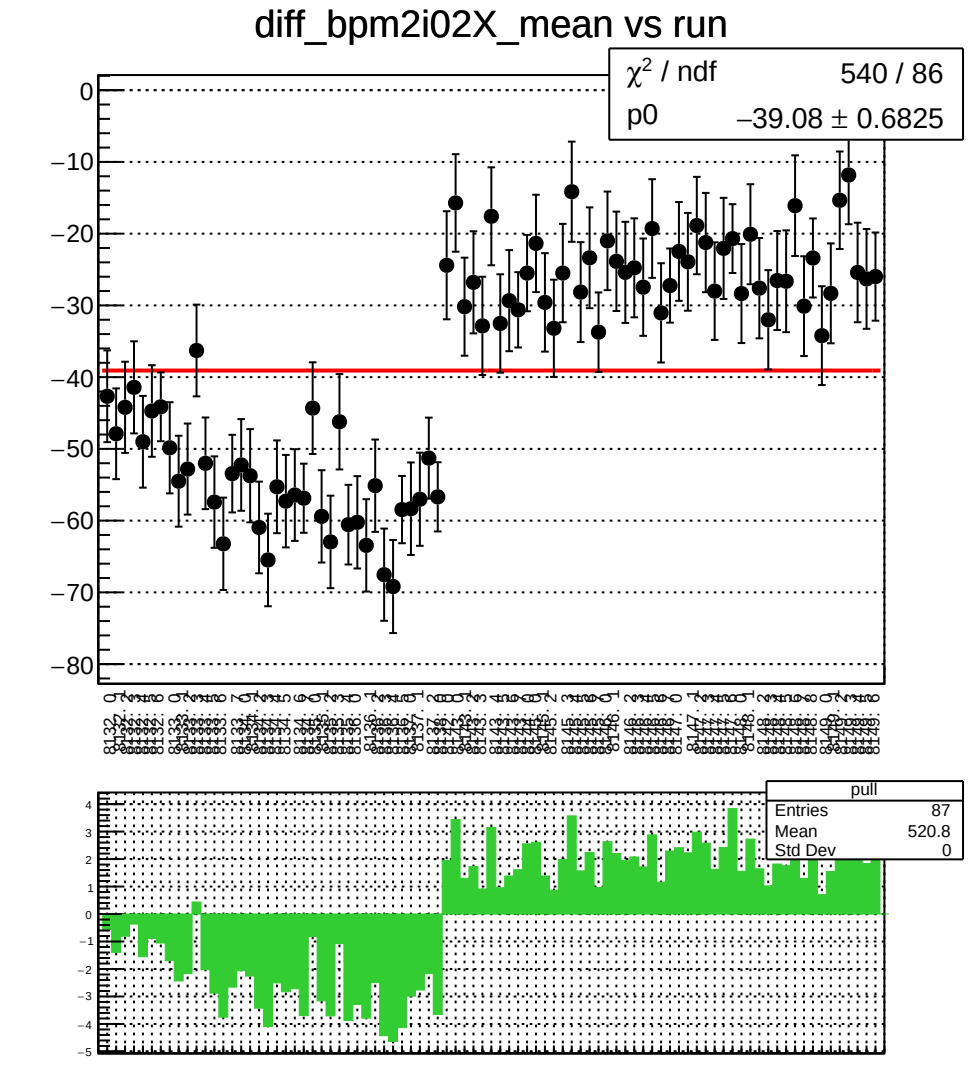

pull1D
Entries 87
Mean 0.03061
Std Dev 1.193

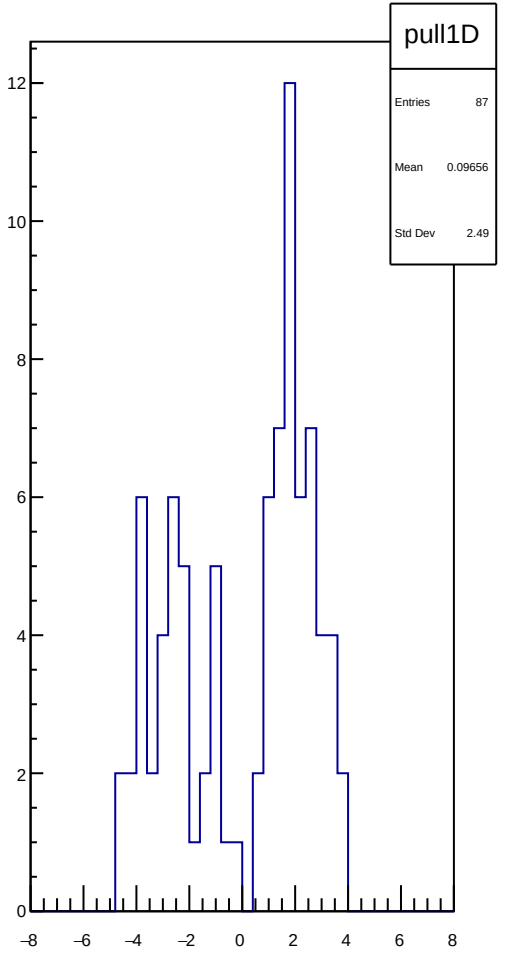

diff_bpm2i01X_rms vs run
χ² / ndf 2923 / 86
p0 529.1 ± 0.4039
570
560
550
540
530
520
510
500
490

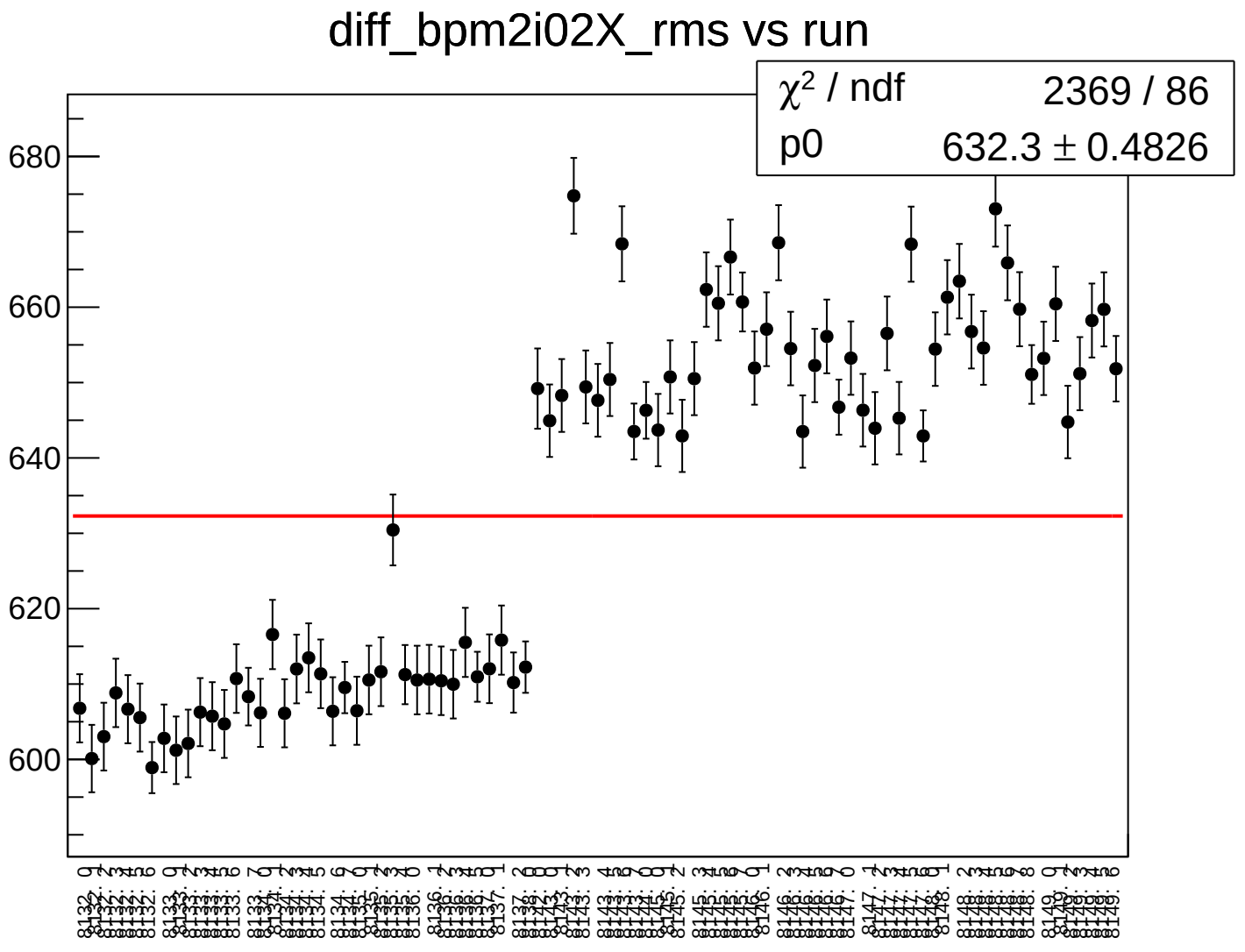

diff_bpm2i01Y_mean vs run
χ² / ndf 163.5 / 86
p0 15.01 ± 0.6911
pull
Entries 87
Mean 842.8
Std Dev 0

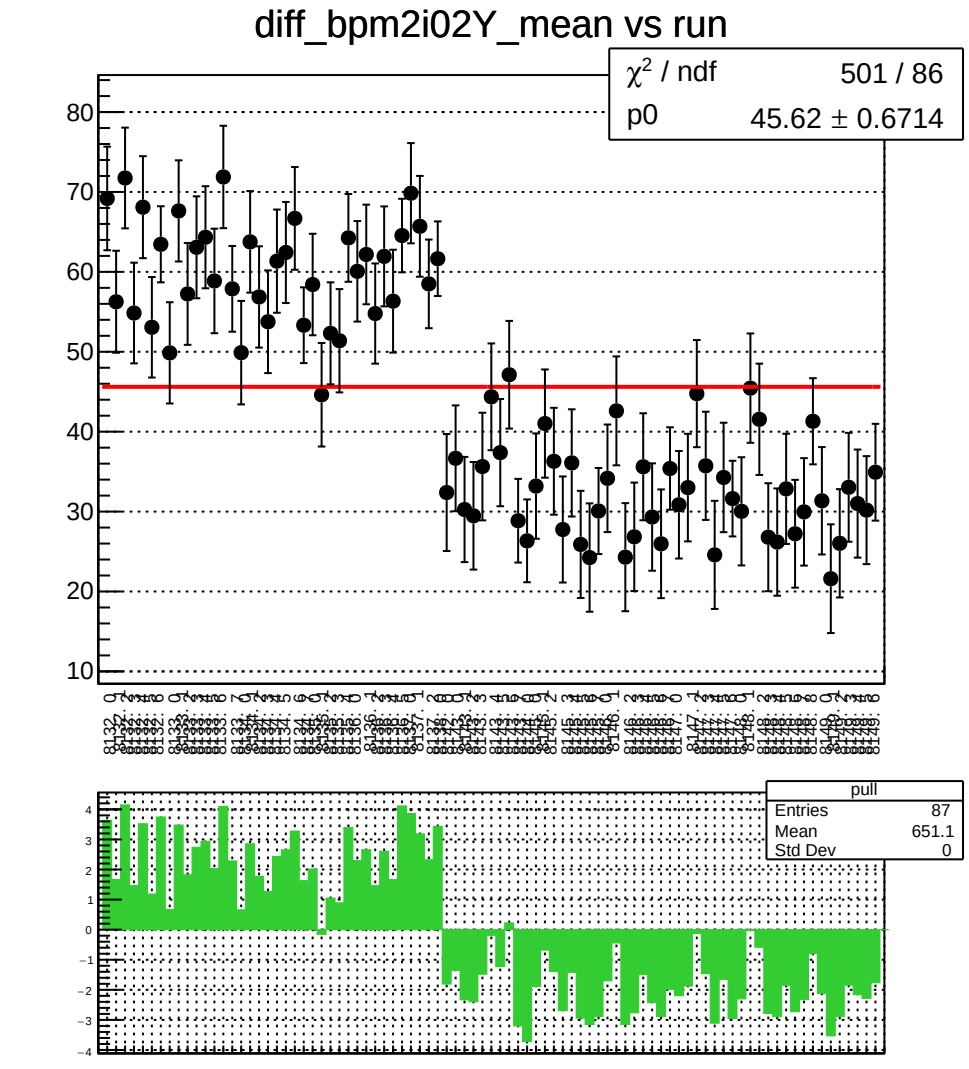

pull1D
Entries 87
Mean −0.02573
Std Dev 1.371

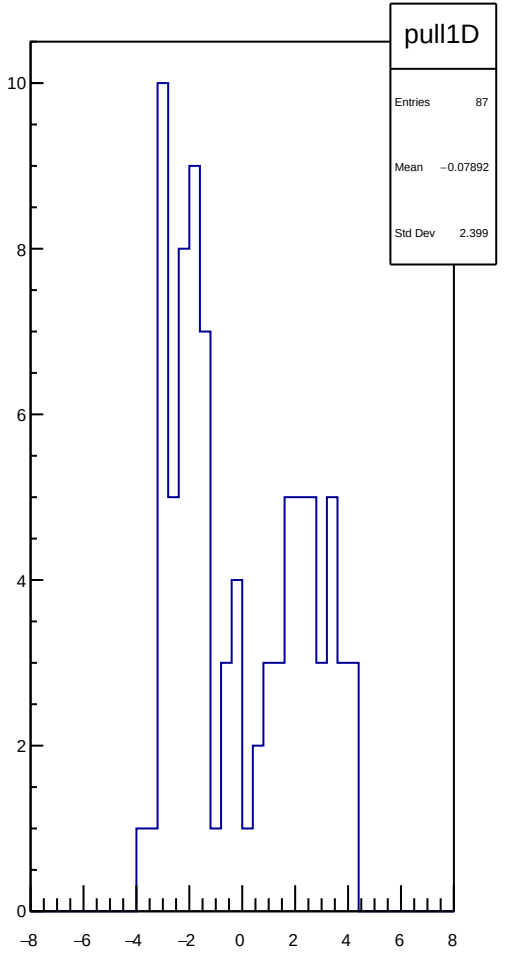

diff_bpm2i01Y_rms vs run
χ² / ndf 2595 / 86
p0 640.2 ± 0.4887
700
680
660
640
620
600
580

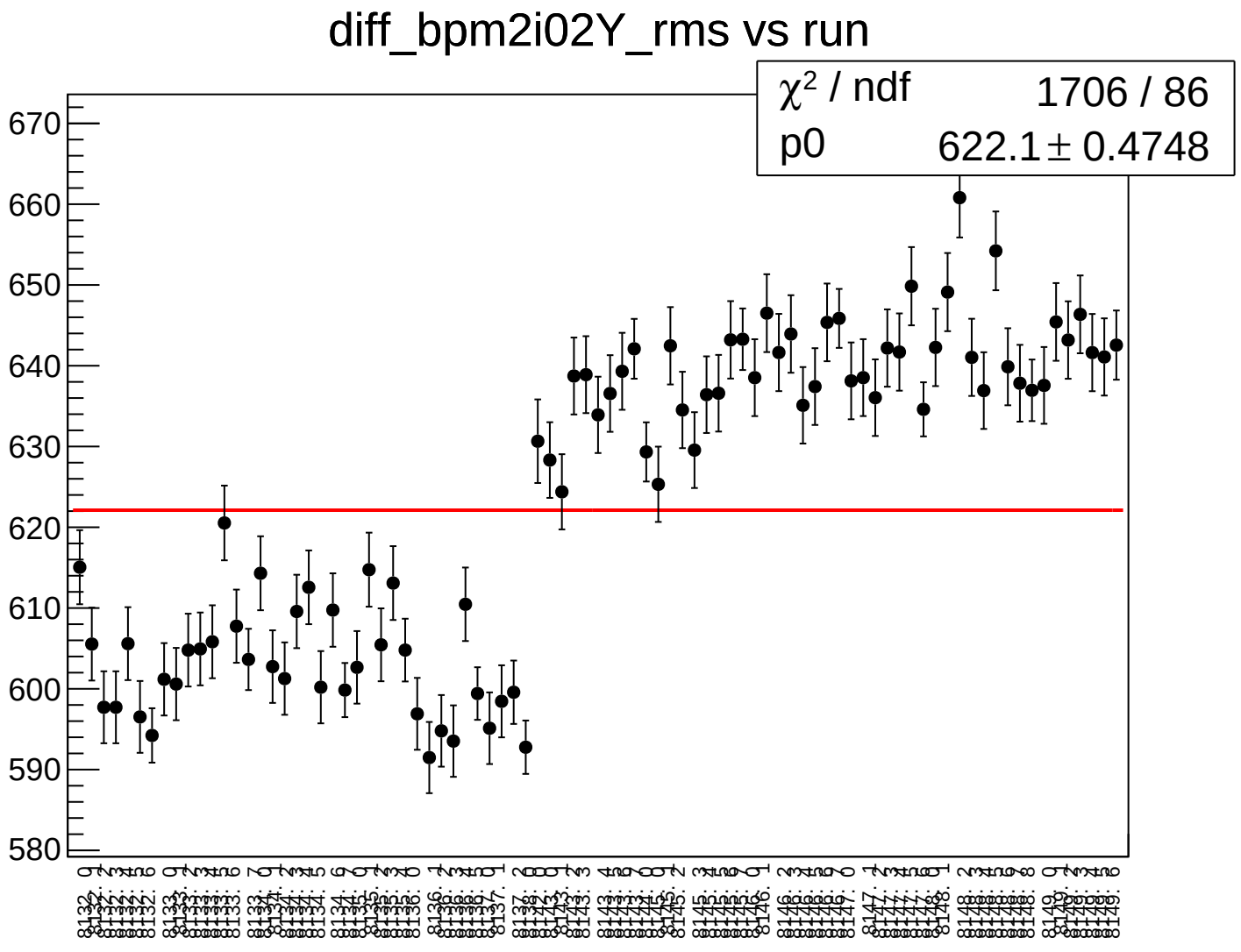

diff_bpm2i02X_mean vs run
χ² / ndf 540 / 86
p0 −39.08 ± 0.6825
pull
Entries 87
Mean 520.8
Std Dev 0

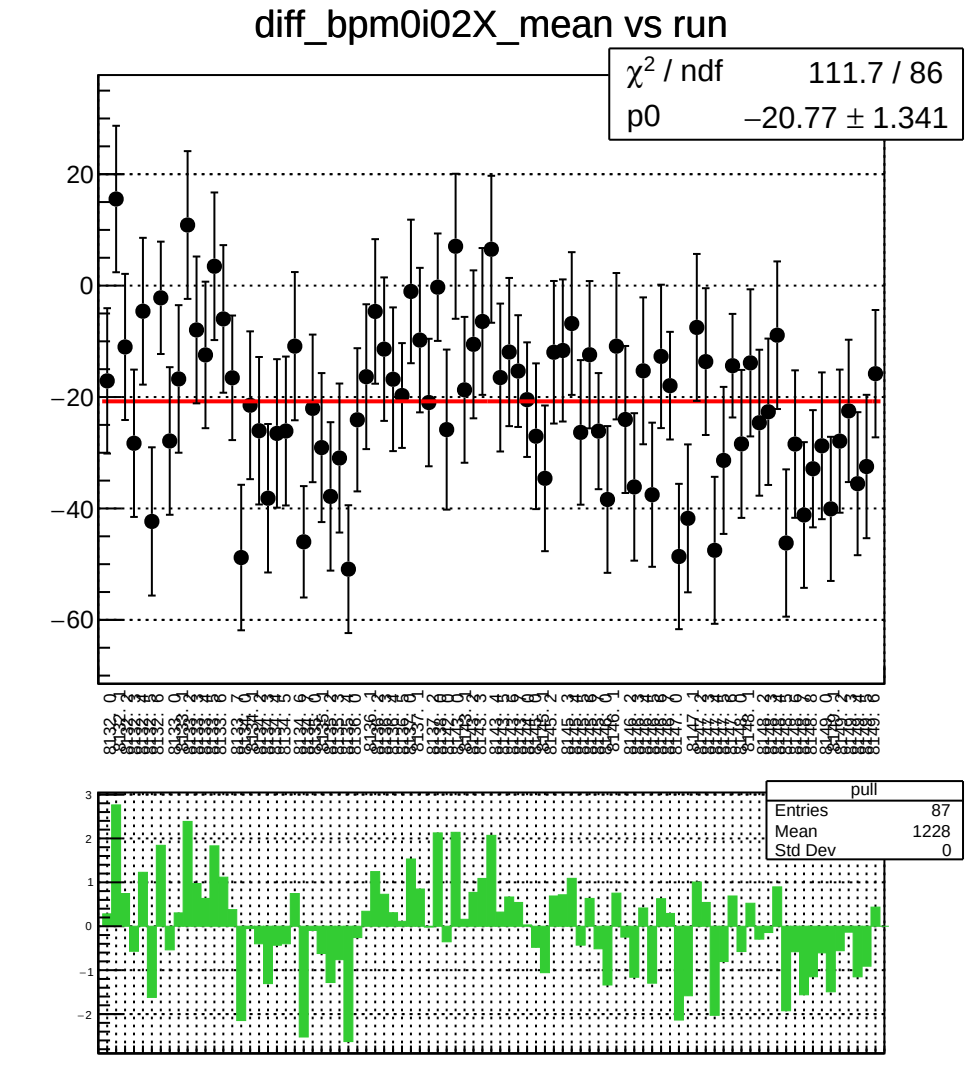

pull1D
Entries 87
Mean 0.09656
Std Dev 2.49

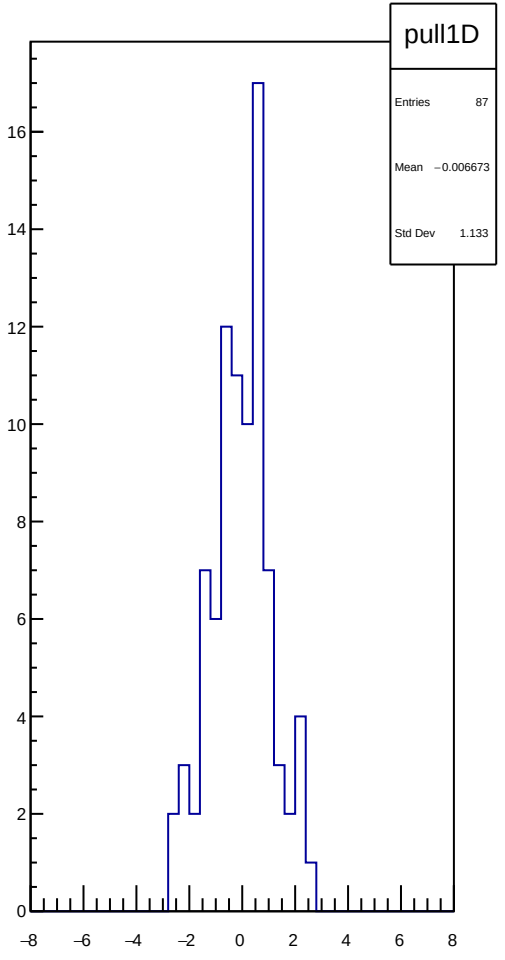

diff_bpm2i02X_rms vs run
χ² / ndf 2369 / 86
p0 632.3 ± 0.4826
680
660
640
620
600

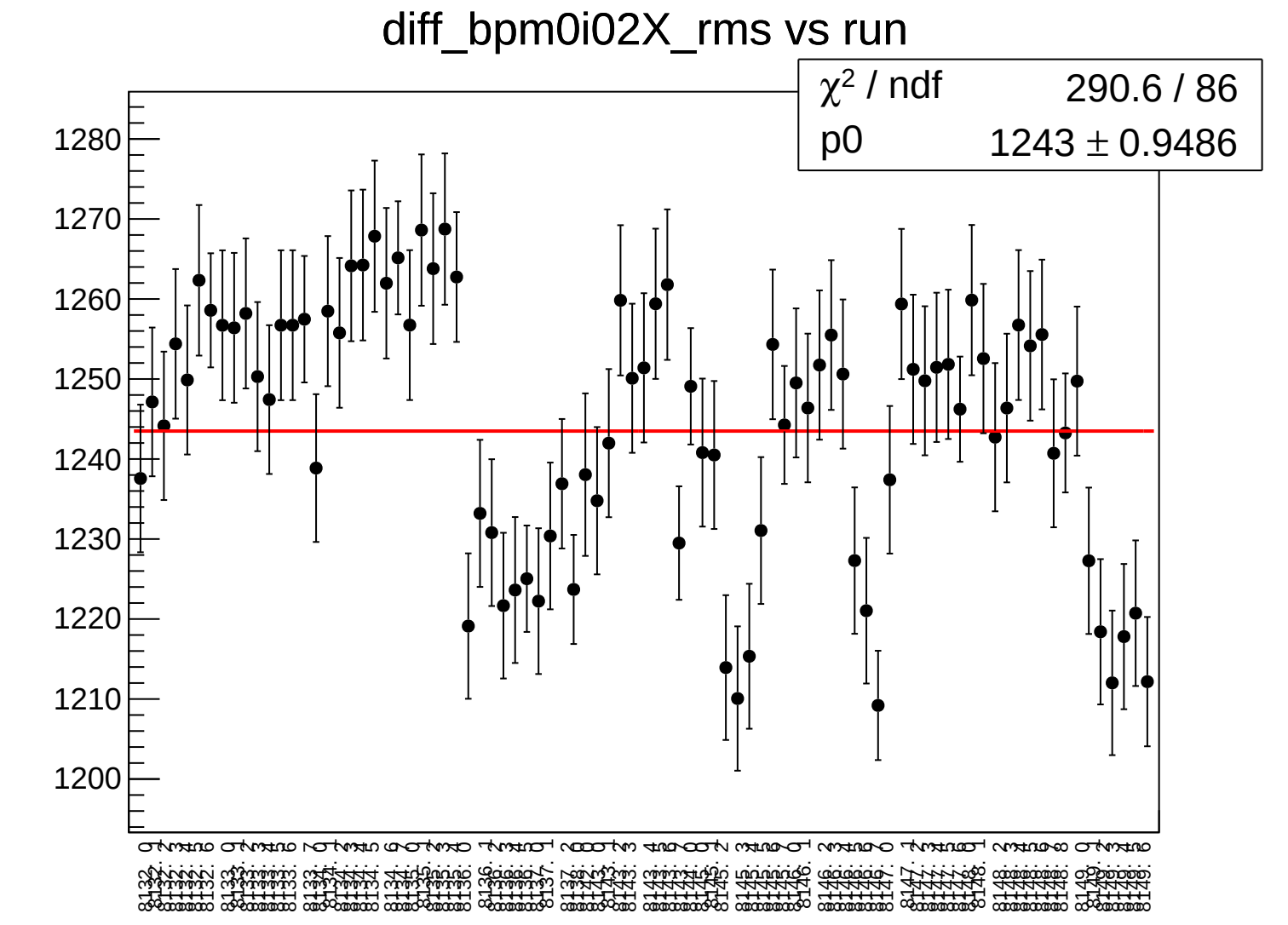

diff_bpm2i02Y_mean vs run
χ² / ndf 501 / 86
p0 45.62 ± 0.6714
pull
Entries 87
Mean 651.1
Std Dev 0

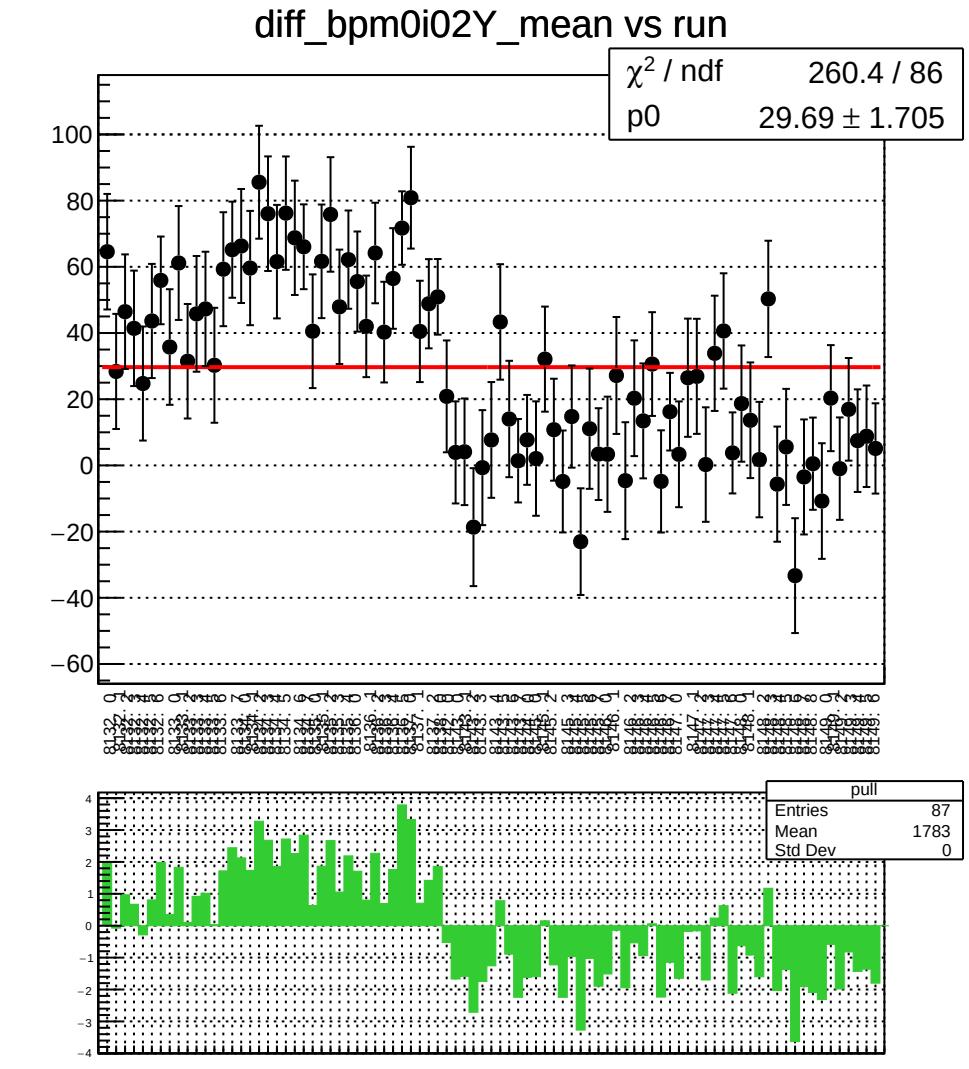

pull1D
Entries 87
Mean −0.07892
Std Dev 2.399

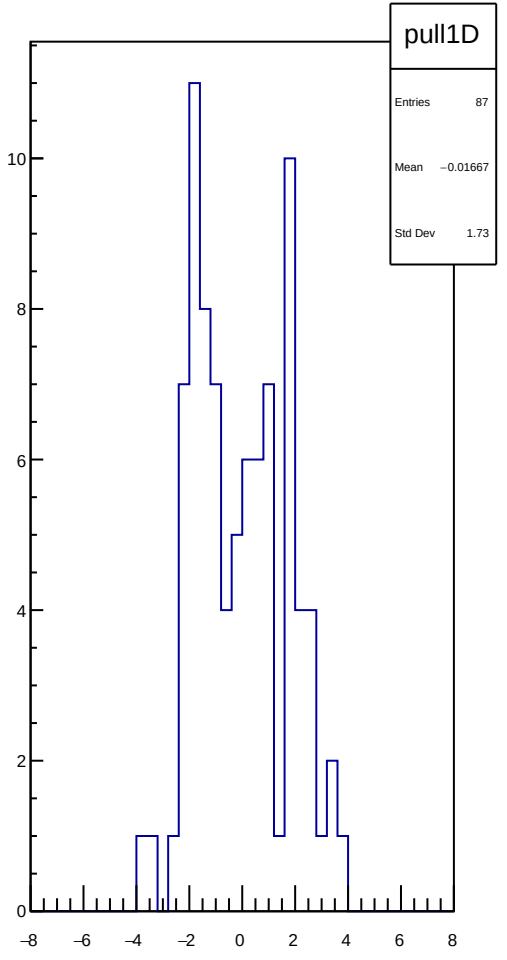

diff_bpm2i02Y_rms vs run
χ² / ndf 1706 / 86
p0 622.1 ± 0.4748
670
660
650
640
630
620
610
600
590
580

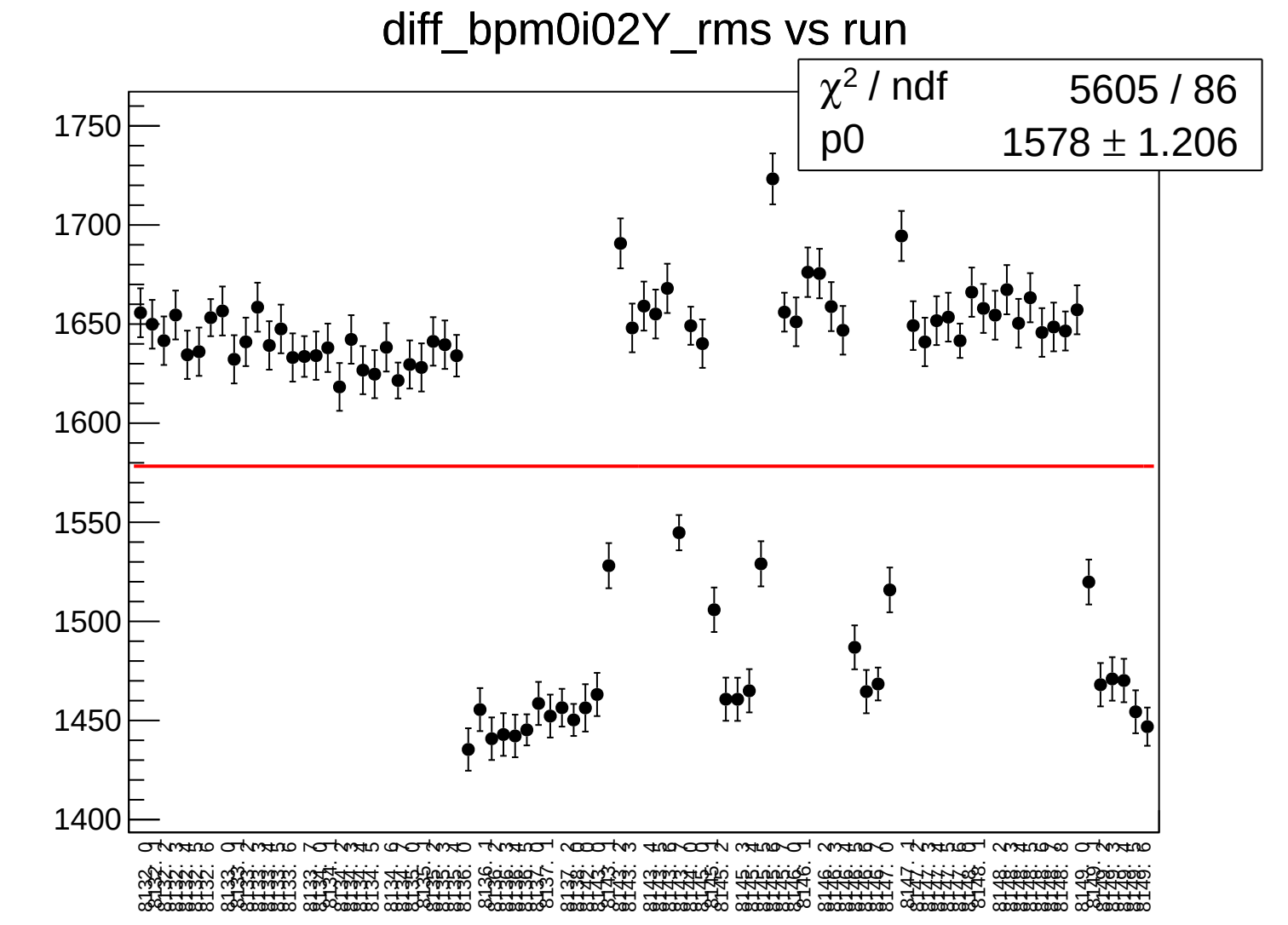

diff_bpm0i02X_mean vs run
χ² / ndf 111.7 / 86
p0 −20.77 ± 1.341
pull
Entries 87
Mean 1228
Std Dev 0

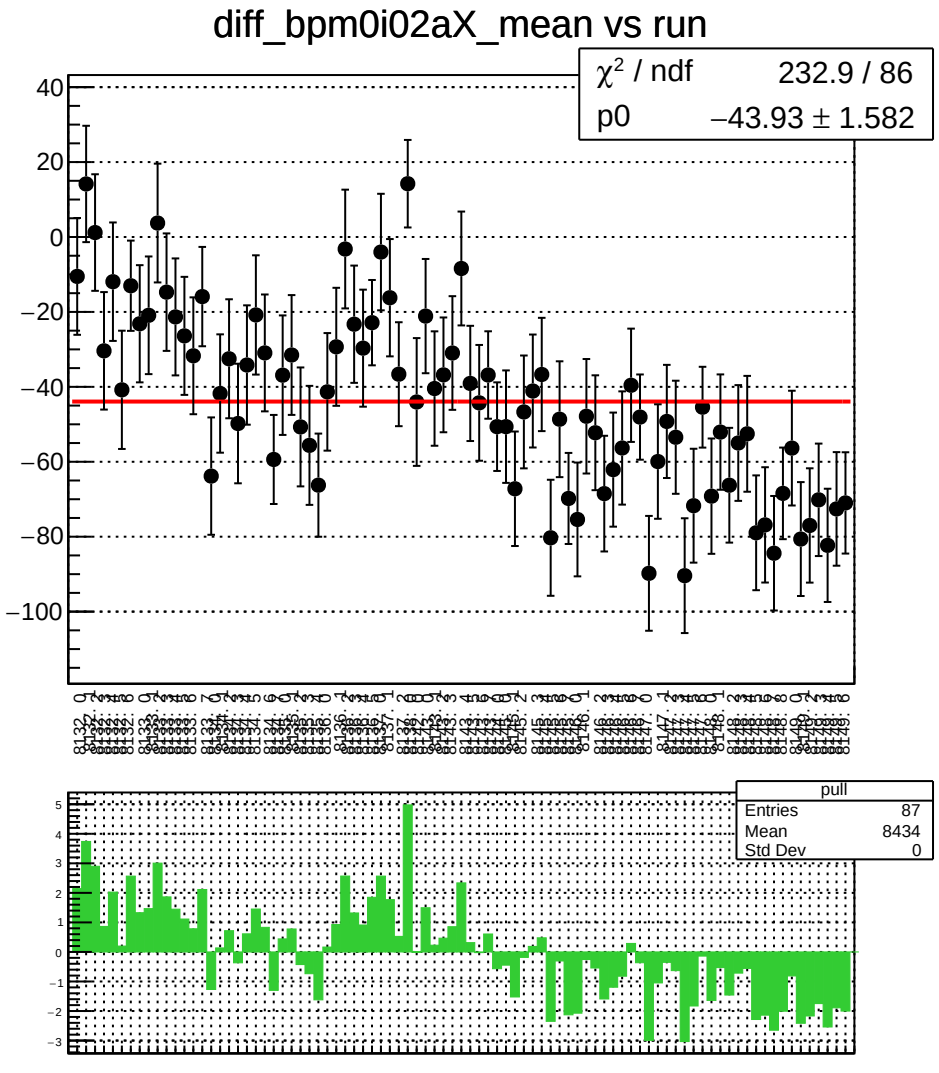

pull1D
Entries 87
Mean −0.006673
Std Dev 1.133

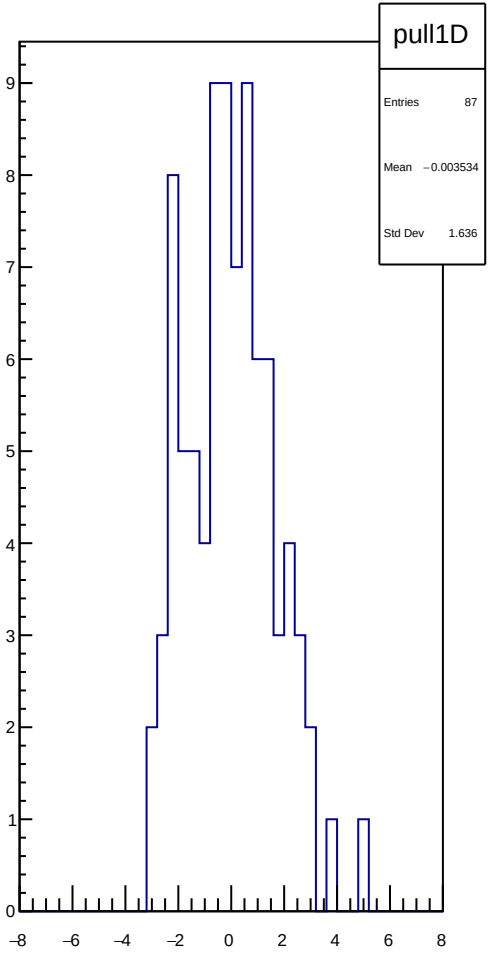

diff_bpm0i02X_rms vs run
χ² / ndf 290.6 / 86
p0 1243 ± 0.9486
1280
1270
1260
1250
1240
1230
1220
1210
1200

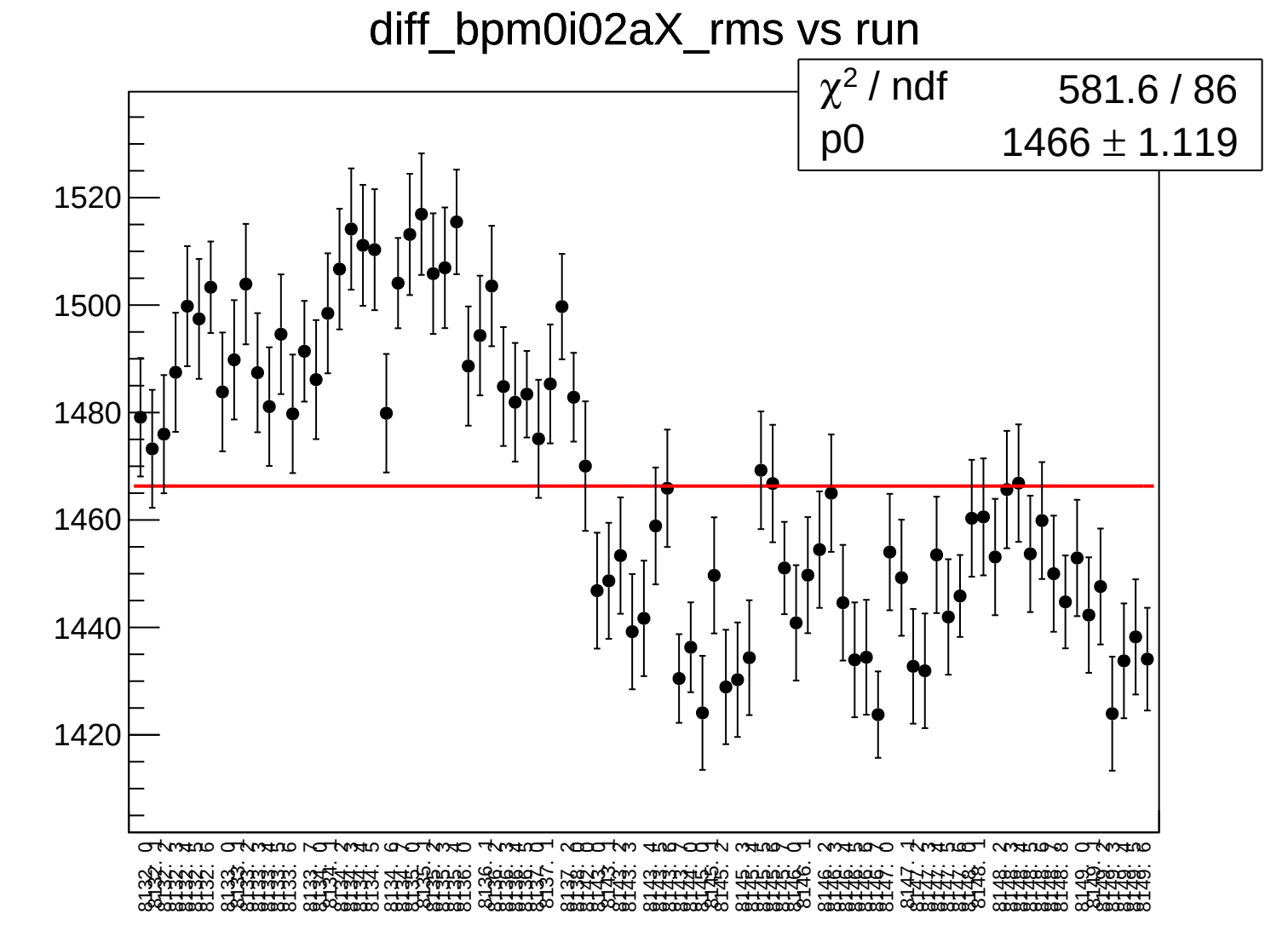

diff_bpm0i02Y_mean vs run
χ² / ndf 260.4 / 86
p0 29.69 ± 1.705
pull
Entries 87
Mean 1783
Std Dev 0

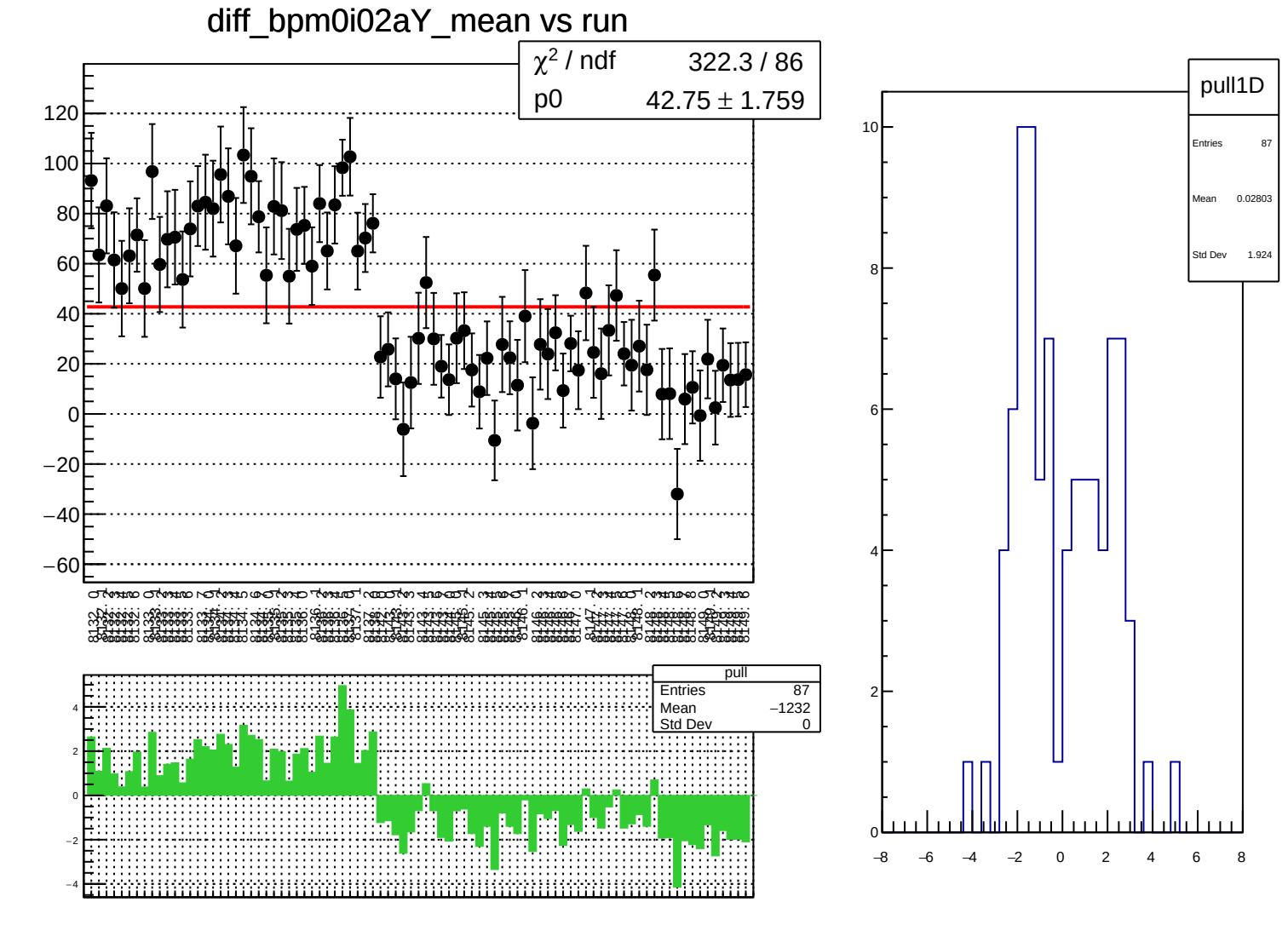

pull1D
Entries 87
Mean −0.01667
Std Dev 1.73

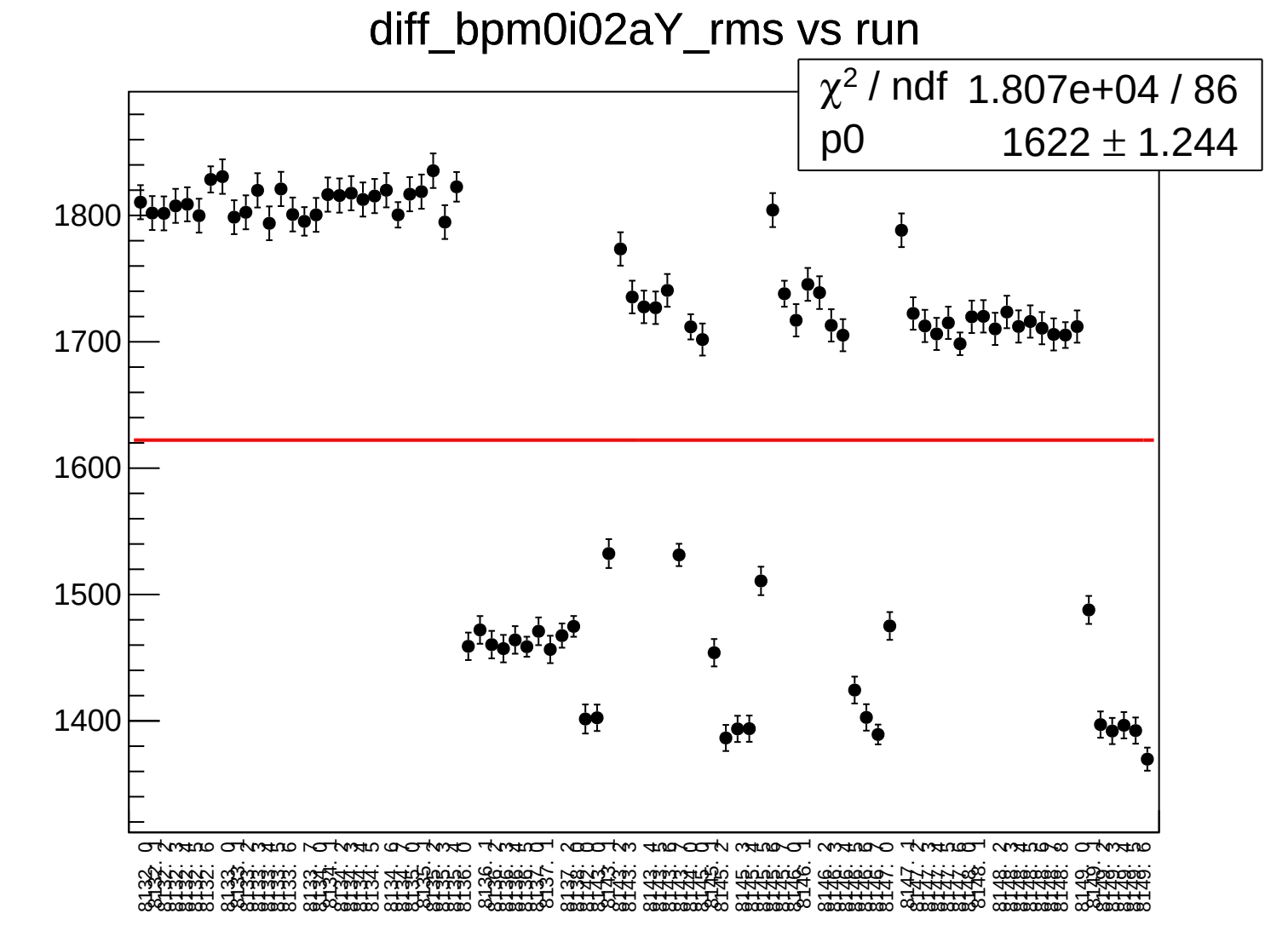

diff_bpm0i02Y_rms vs run
χ^2 / ndf 5605 / 86
p0 1578 ± 1.206
1750
1700
1650
1600
1550
1500
1450
1400

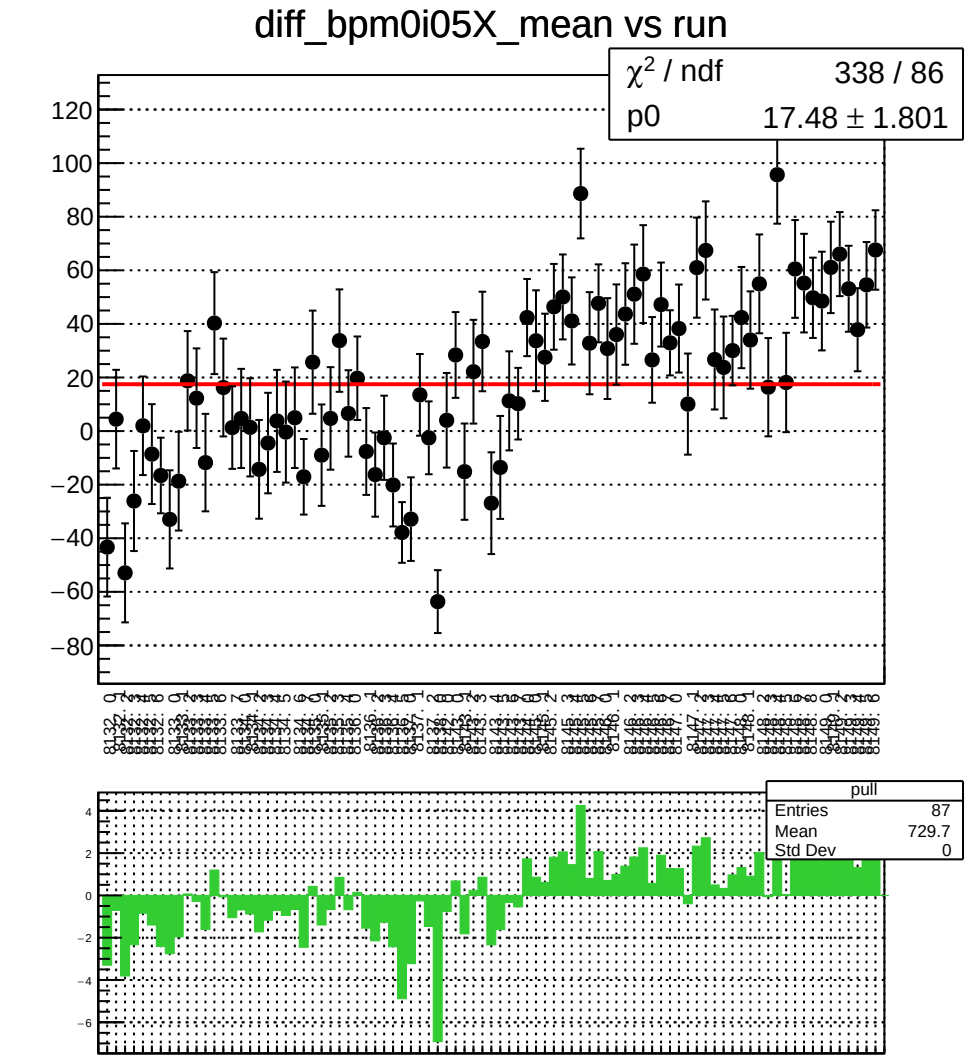

diff_bpm0i02aX_mean vs run
χ² / ndf 232.9 / 86
p0 −43.93 ± 1.582
pull
Entries 87
Mean 8434
Std Dev 0

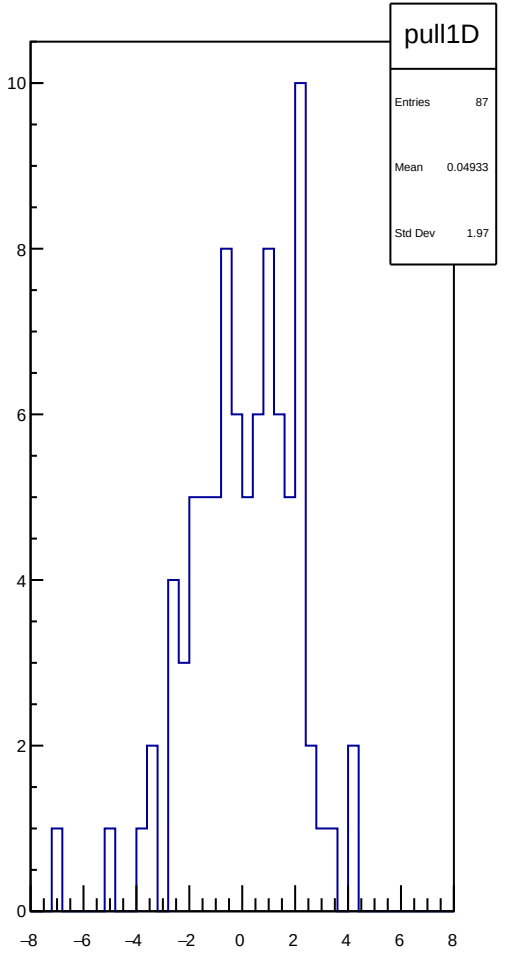

pull1D
Entries 87
Mean −0.003534
Std Dev 1.636

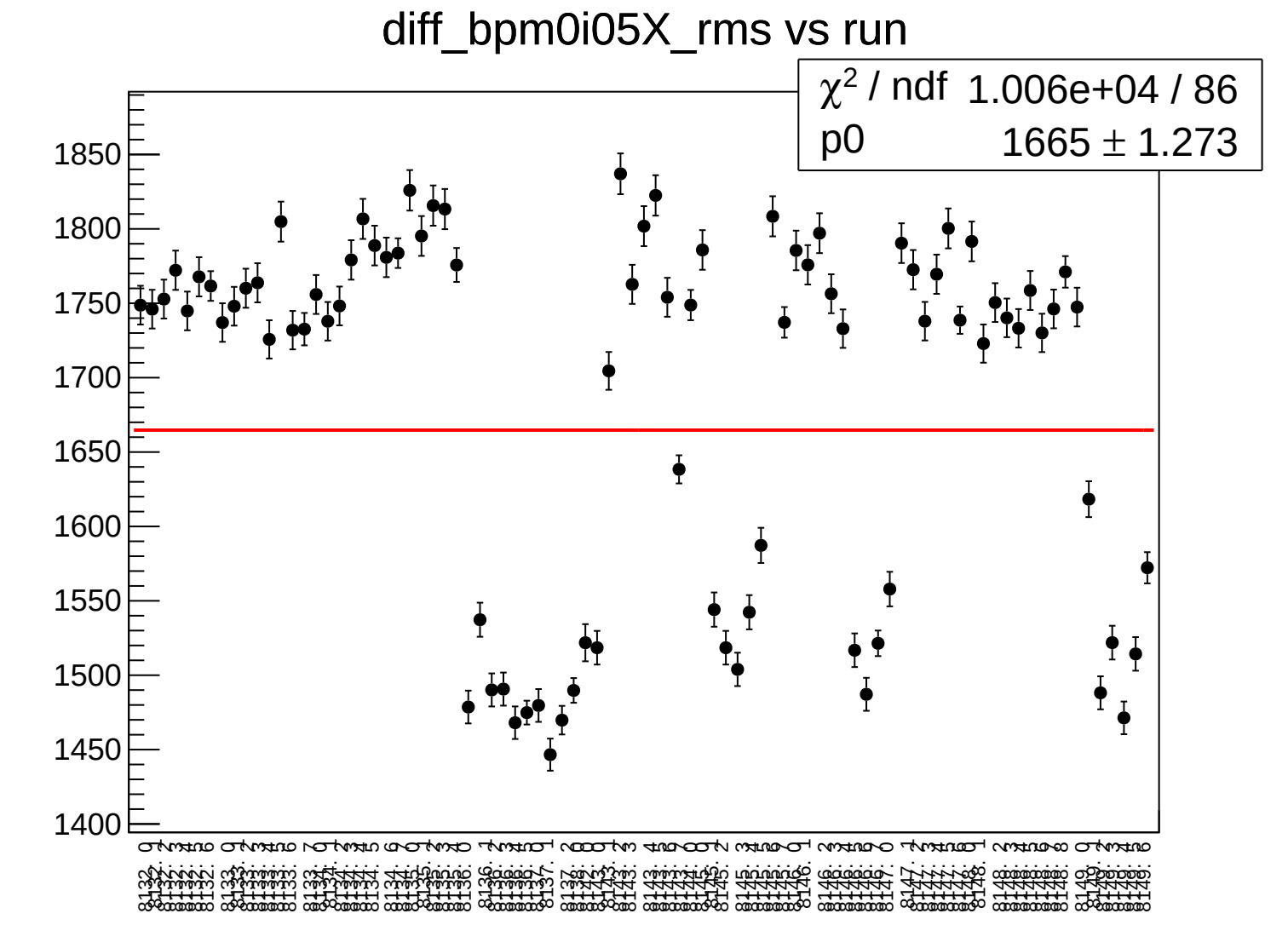

diff_bpm0i02aX_rms vs run
χ² / ndf 581.6 / 86
p0 1466 ± 1.119
1520
1500
1480
1460
1440
1420

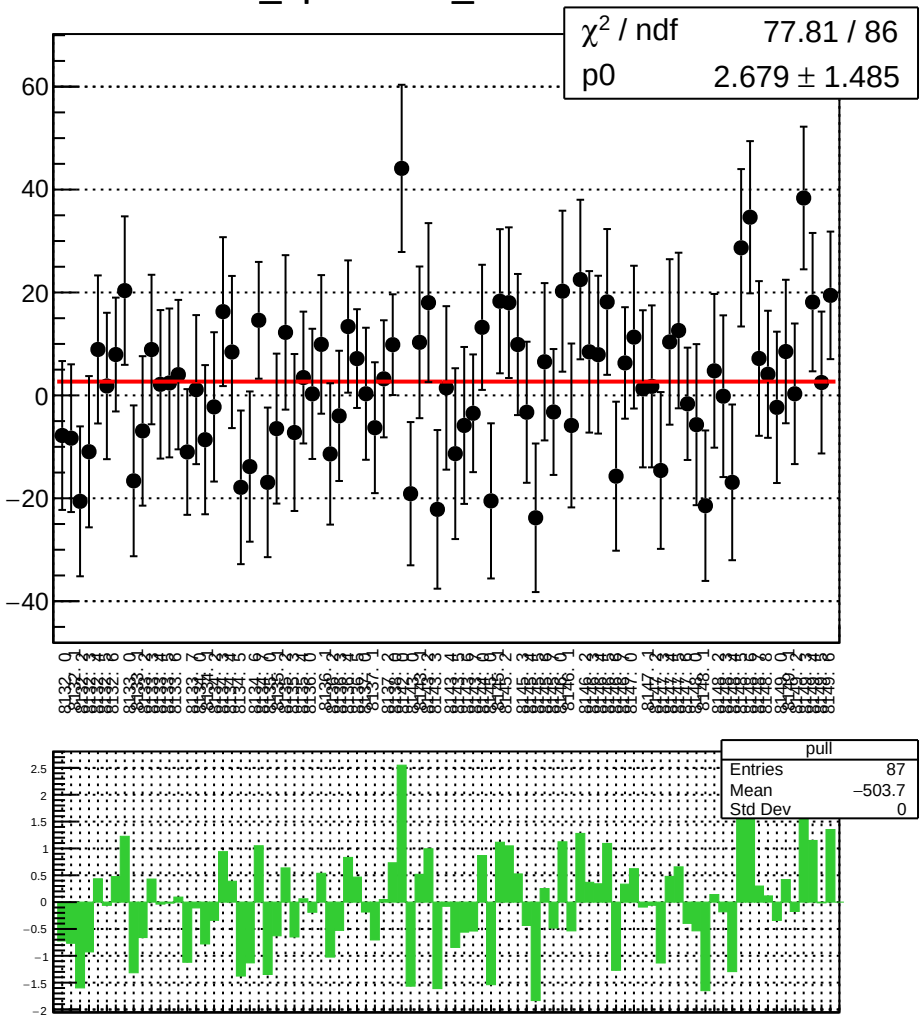

diff_bpm0i02aY_mean vs run
χ² / ndf 322.3 / 86
p0 42.75 ± 1.759
pull
Entries 87
Mean −1232
Std Dev 0
pull1D
Entries 87
Mean 0.02803
Std Dev 1.924

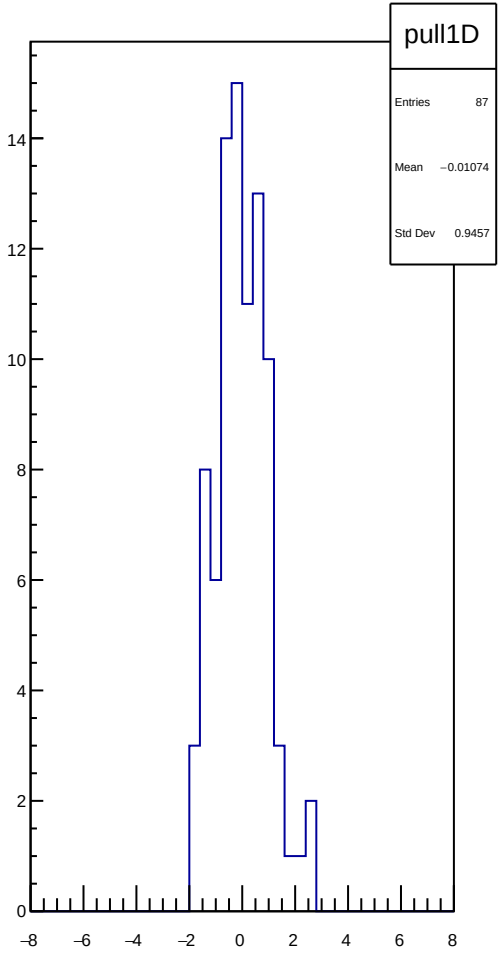

diff_bpm0i02aY_rms vs run
χ² / ndf 1.807e+04 / 86
p0 1622 ± 1.244
1800
1700
1600
1500
1400

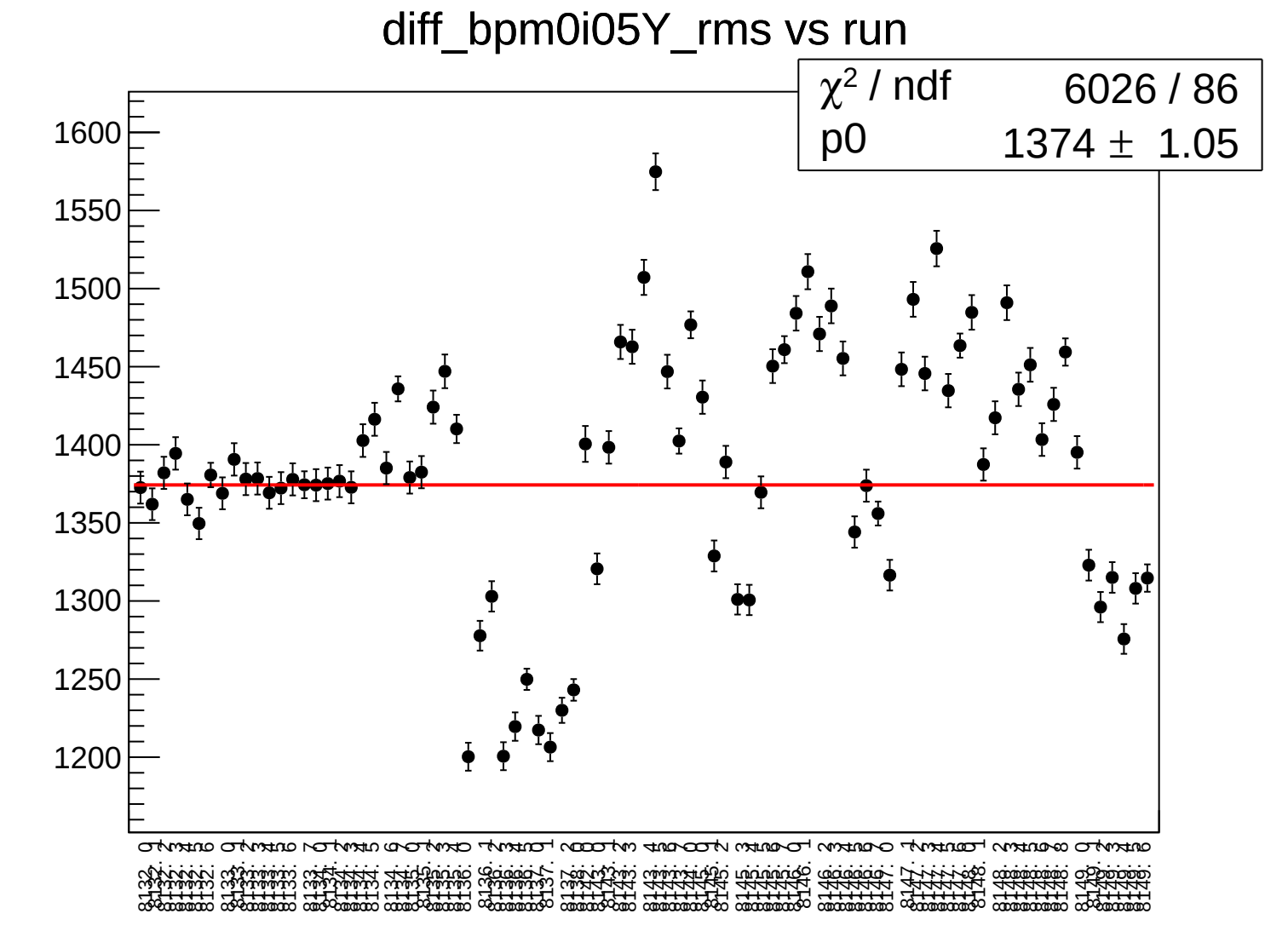

diff_bpm0i05X_mean vs run
χ² / ndf 338 / 86
p0 17.48 ± 1.801
pull
Entries 87
Mean 729.7
Std Dev 0

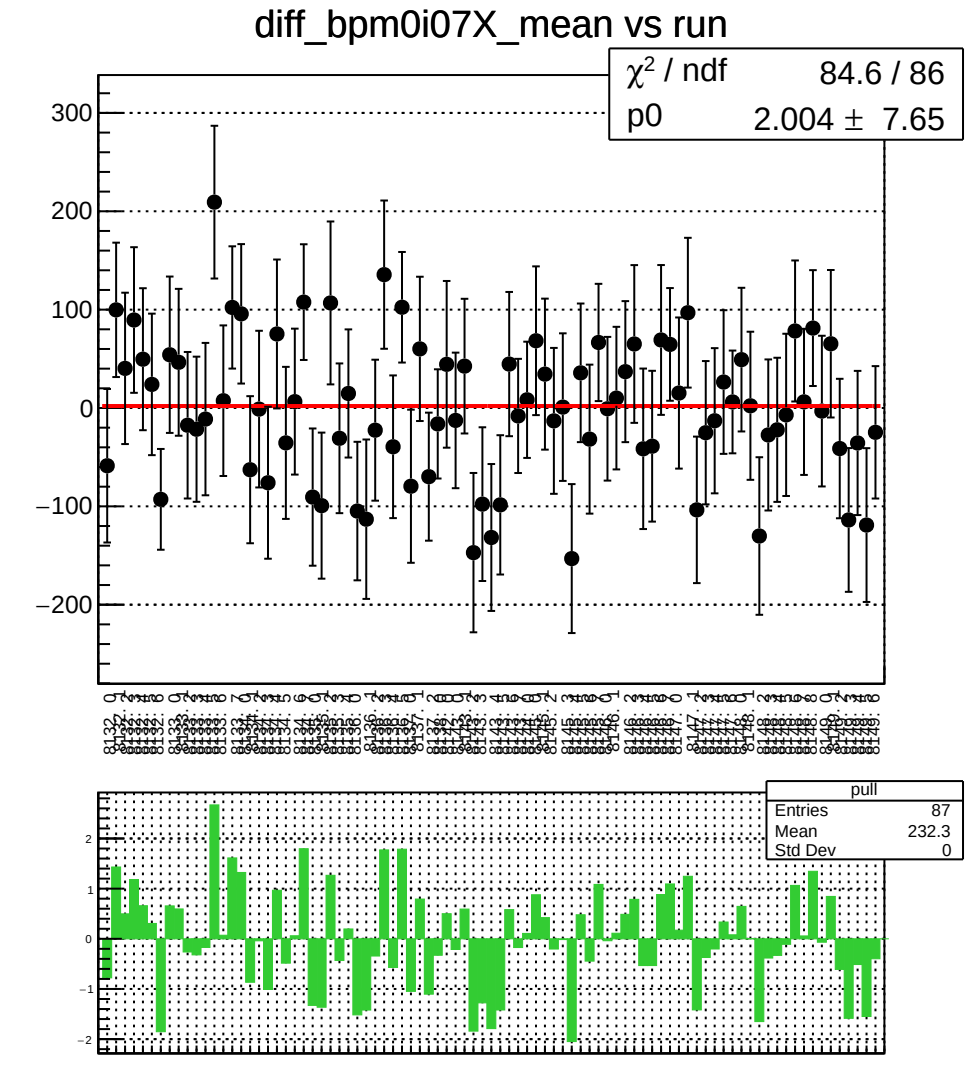

pull1D
Entries 87
Mean 0.04933
Std Dev 1.97

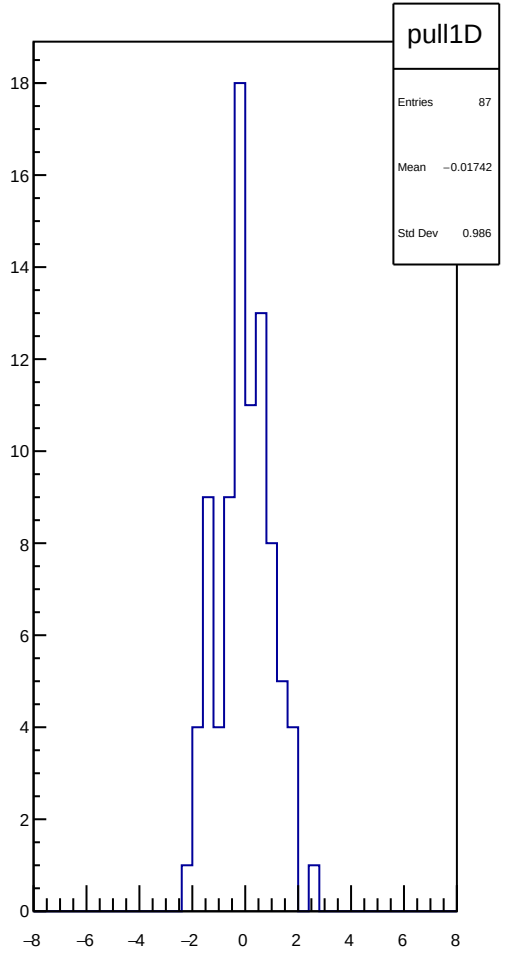

diff_bpm0i05X_rms vs run
χ^2 / ndf 1.006e+04 / 86
p0 1665 ± 1.273
1850
1800
1750
1700
1650
1600
1550
1500
1450
1400

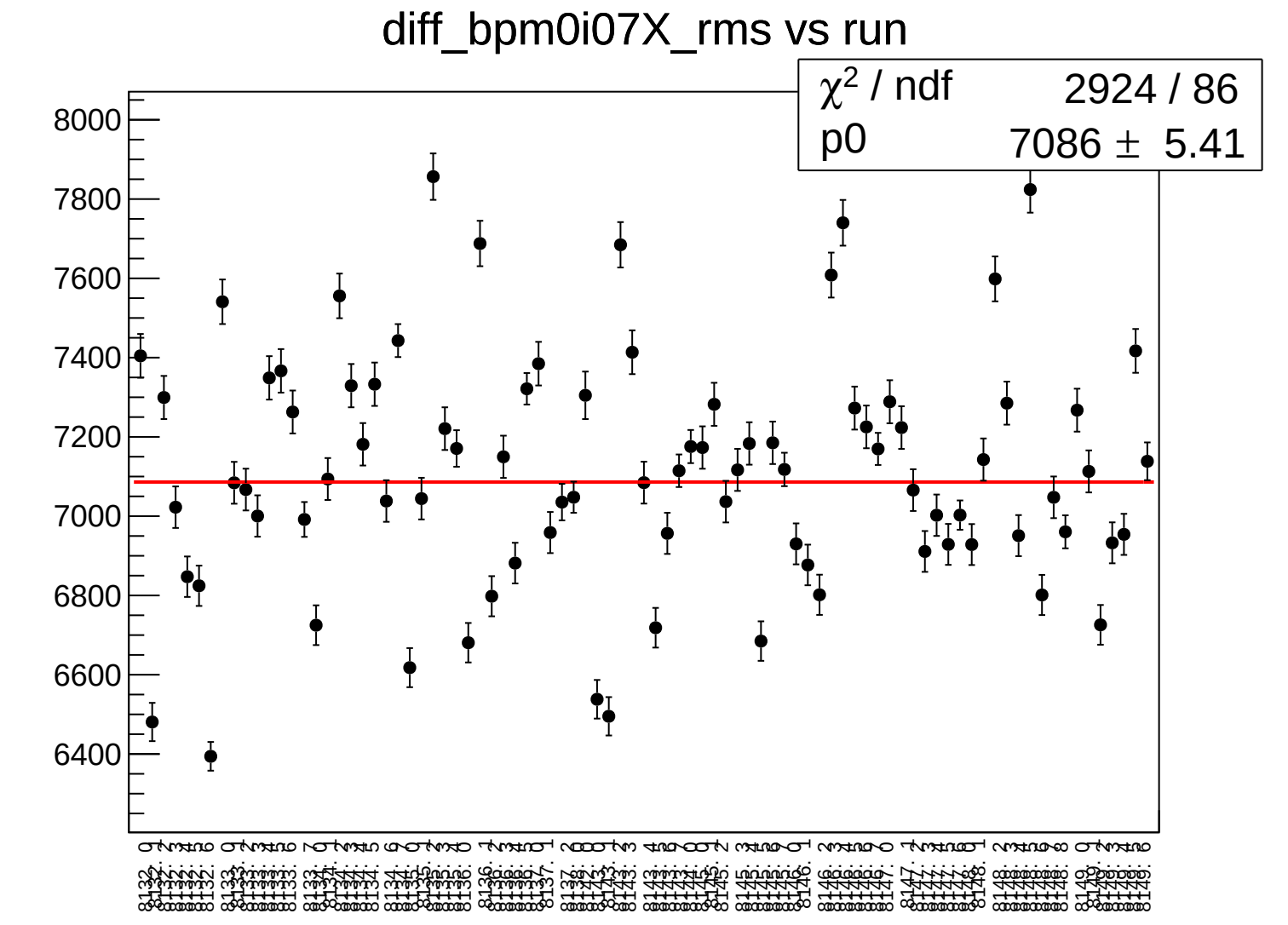

diff_bpm0i05Y_mean vs run
χ² / ndf 77.81 / 86
p0 2.679 ± 1.485
pull
Entries 87
Mean −503.7
Std Dev 0

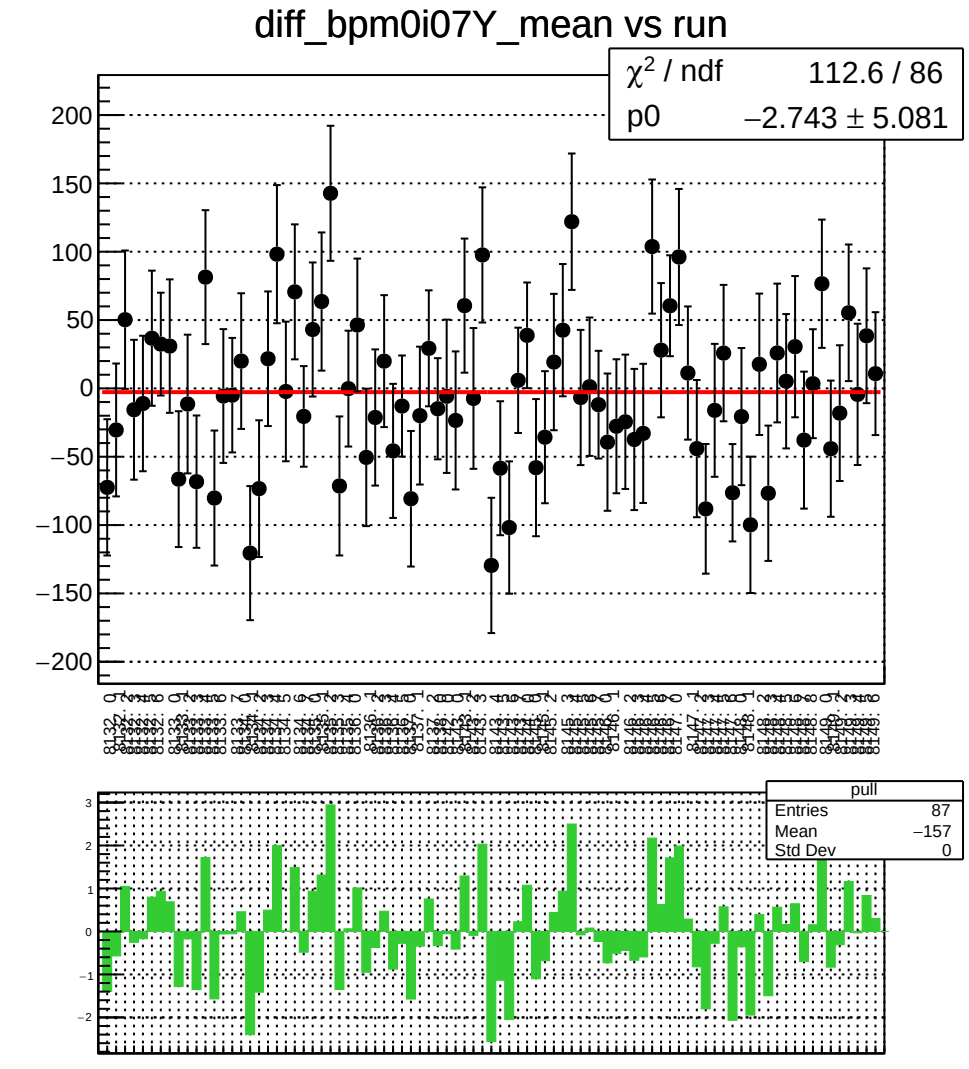

pull1D
Entries 87
Mean −0.01074
Std Dev 0.9457

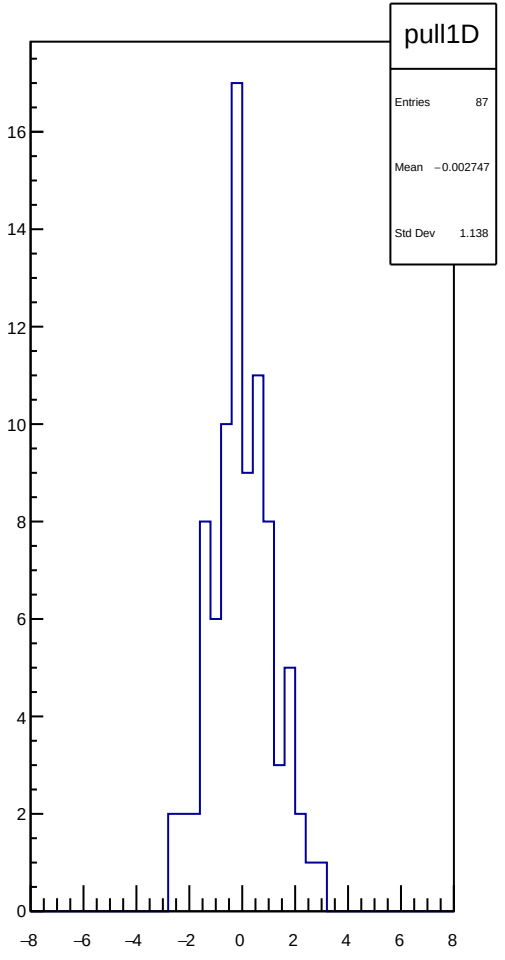

diff_bpm0i05Y_rms vs run
χ² / ndf 6026 / 86
p0 1374 ± 1.05
1600
1550
1500
1450
1400
1350
1300
1250
1200

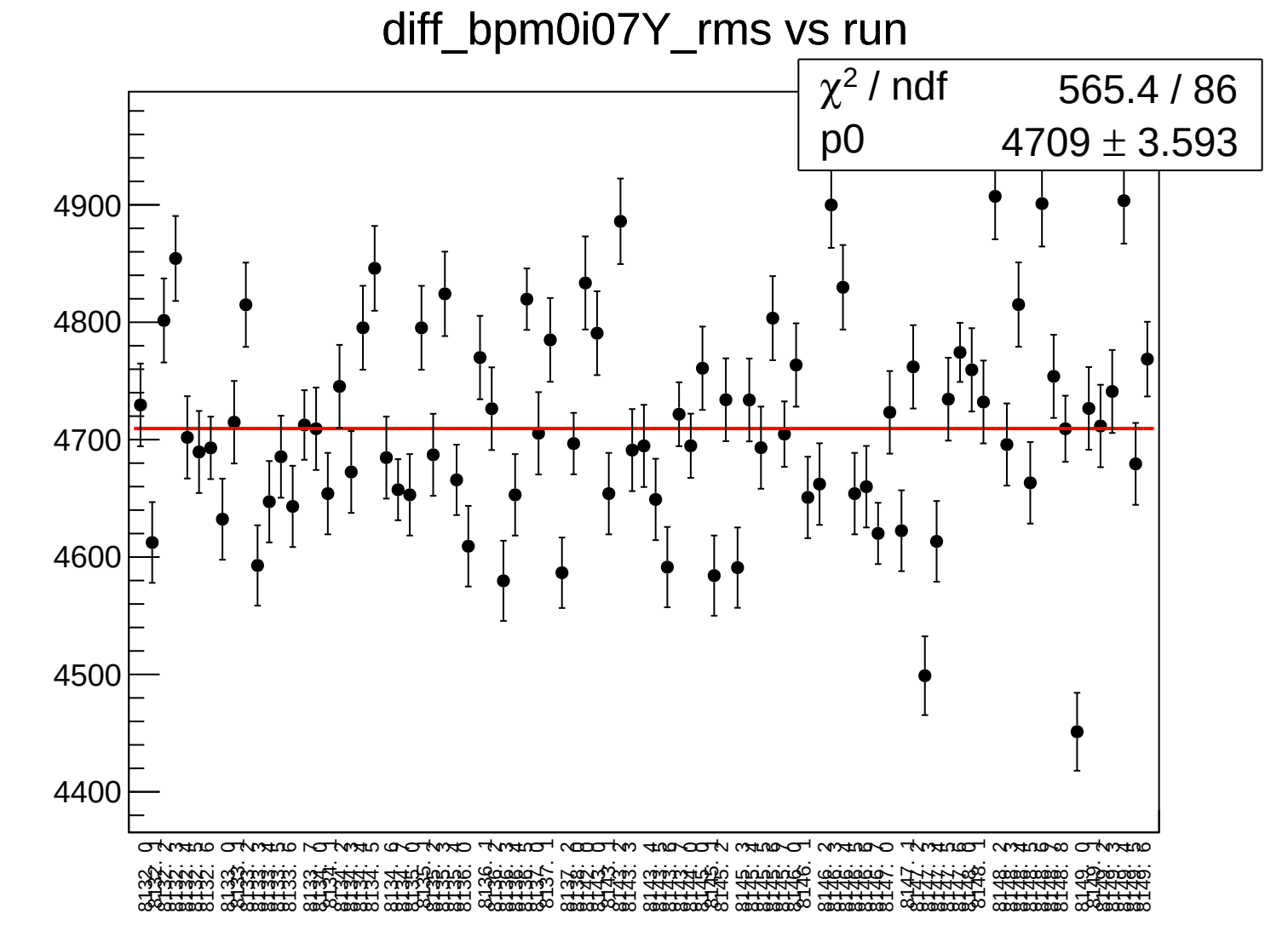

diff_bpm0i07X_mean vs run
χ² / ndf 84.6 / 86
p0 2.004 ± 7.65
pull
Entries 87
Mean 232.3
Std Dev 0

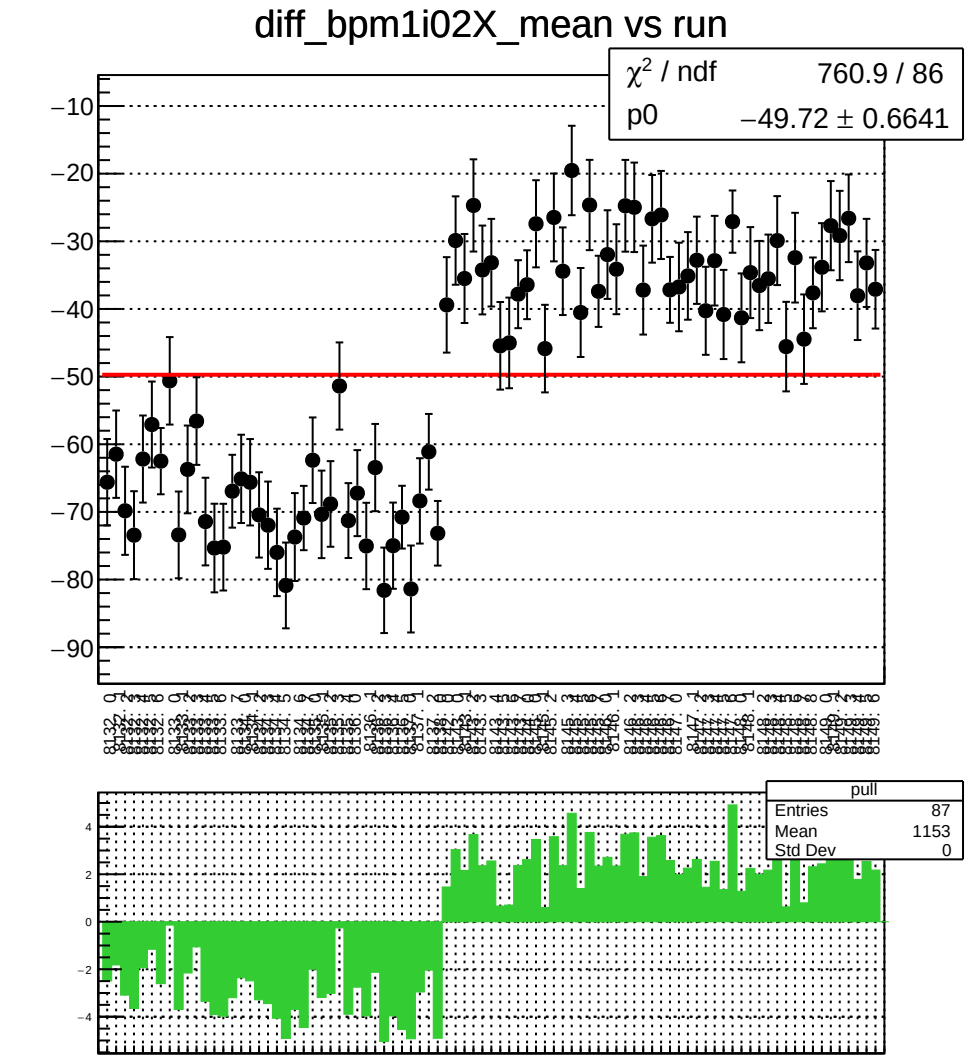

pull1D
Entries 87
Mean −0.01742
Std Dev 0.986

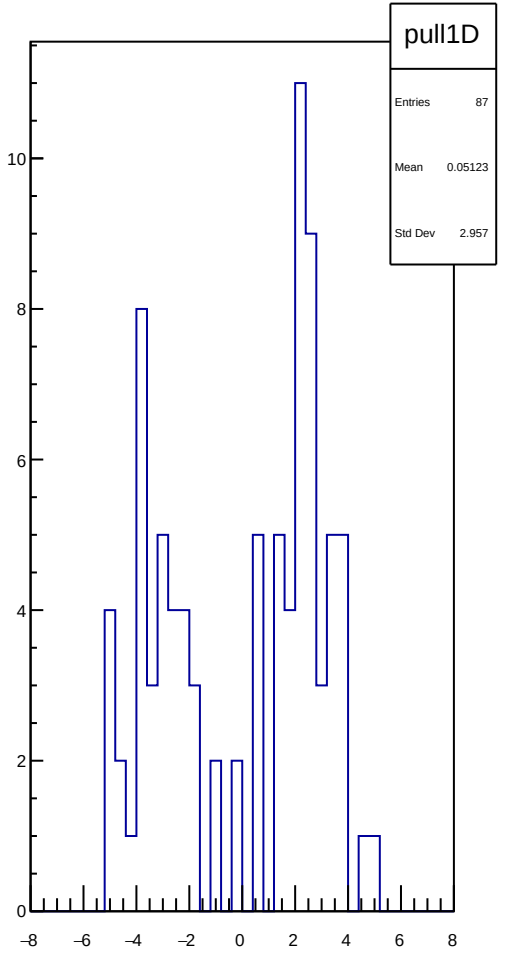

diff_bpm0i07X_rms vs run
χ² / ndf 2924 / 86
p0 7086 ± 5.41
8000
7800
7600
7400
7200
7000
6800
6600
6400

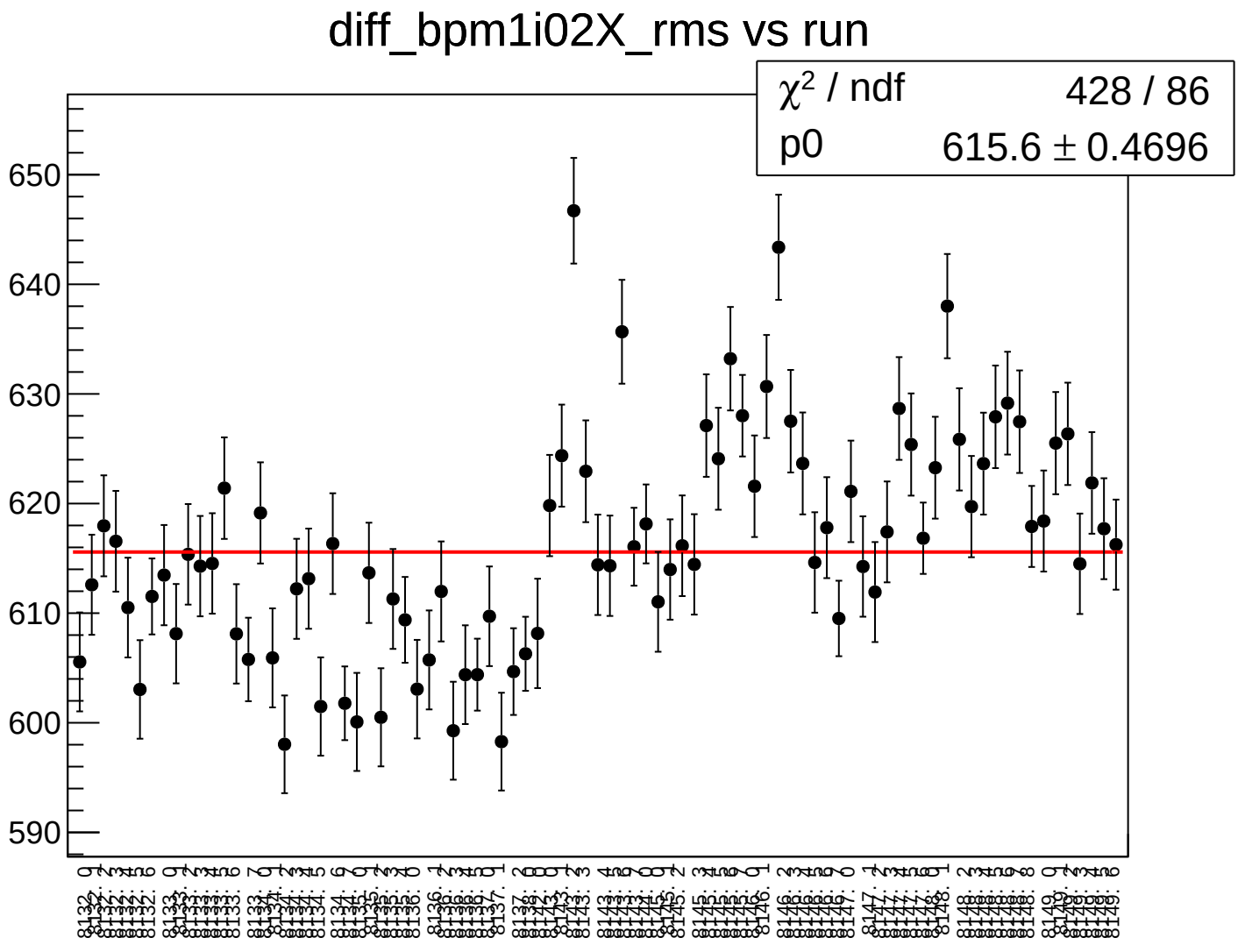

diff_bpm0i07Y_mean vs run
χ² / ndf 112.6 / 86
p0 −2.743 ± 5.081
pull
Entries 87
Mean −157
Std Dev 0

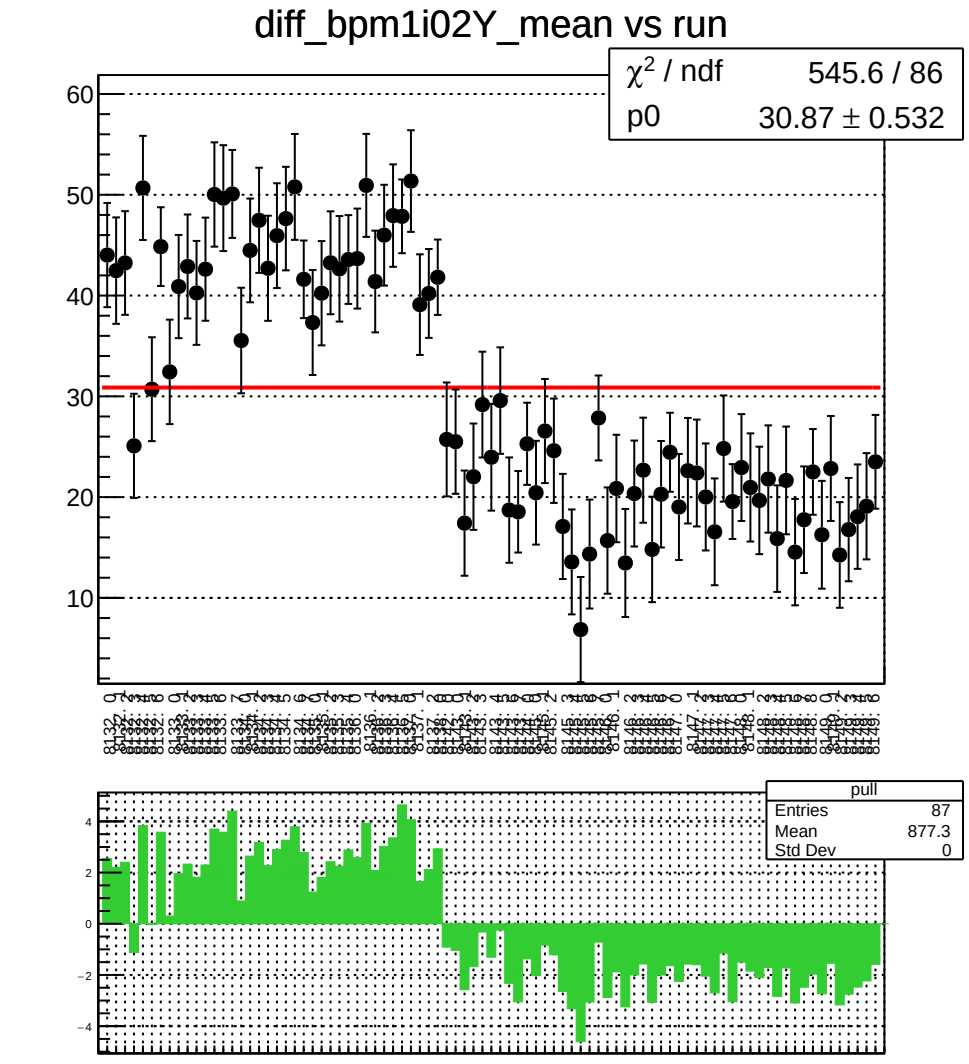

pull1D
Entries 87
Mean −0.002747
Std Dev 1.138

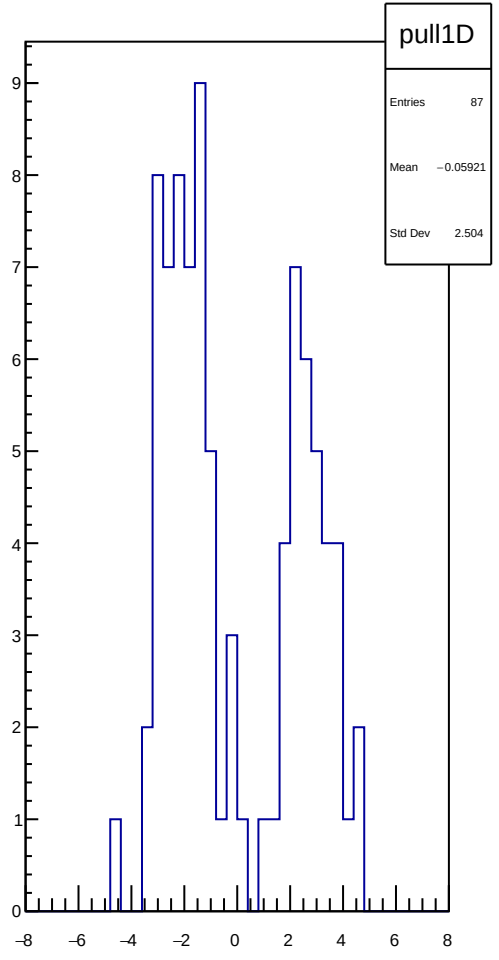

diff_bpm0i07Y_rms vs run
χ² / ndf 565.4 / 86
p0 4709 ± 3.593
4900
4800
4700
4600
4500
4400

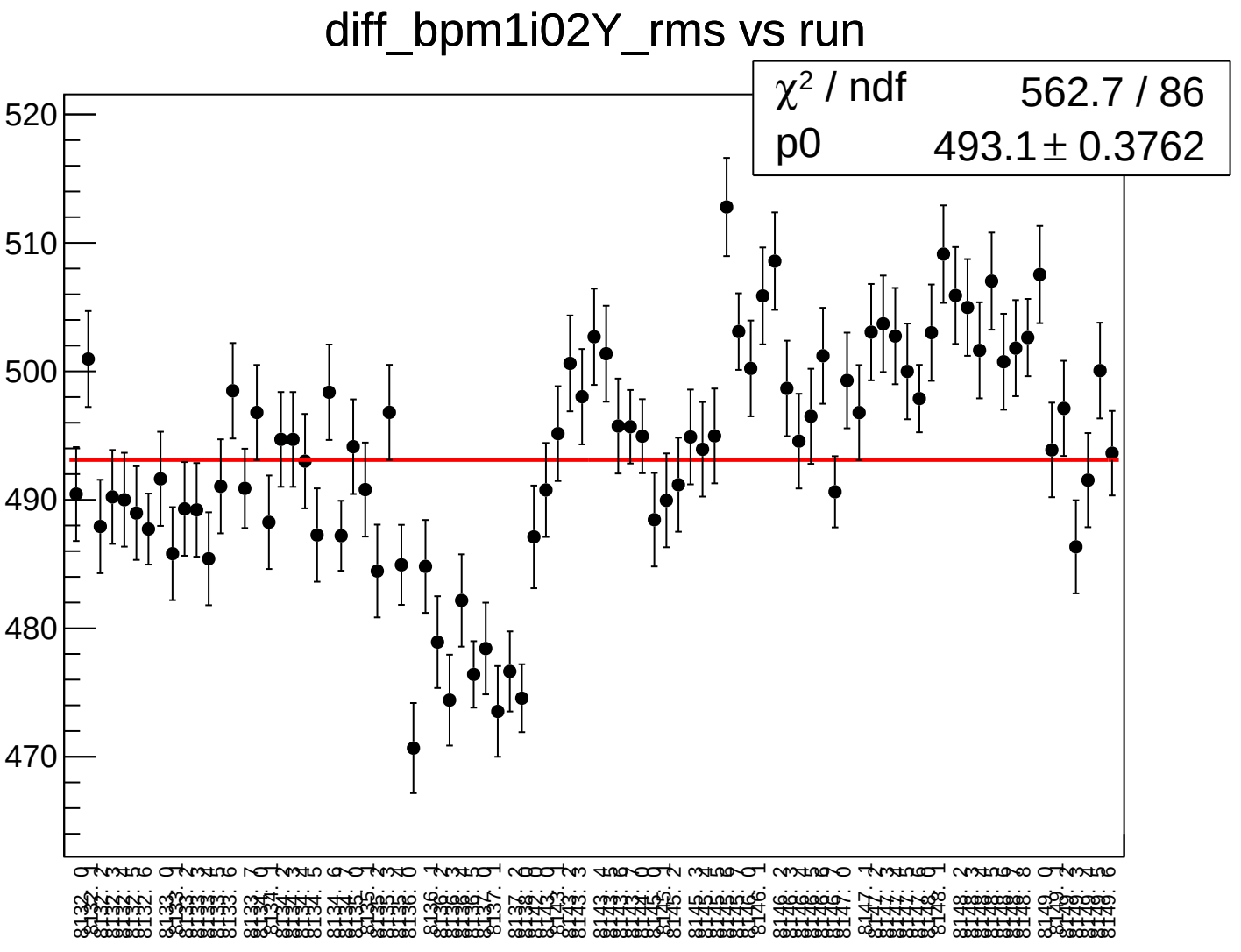

diff_bpm1i02X_mean vs run
χ² / ndf 760.9 / 86
p0 −49.72 ± 0.6641
pull
Entries 87
Mean 1153
Std Dev 0

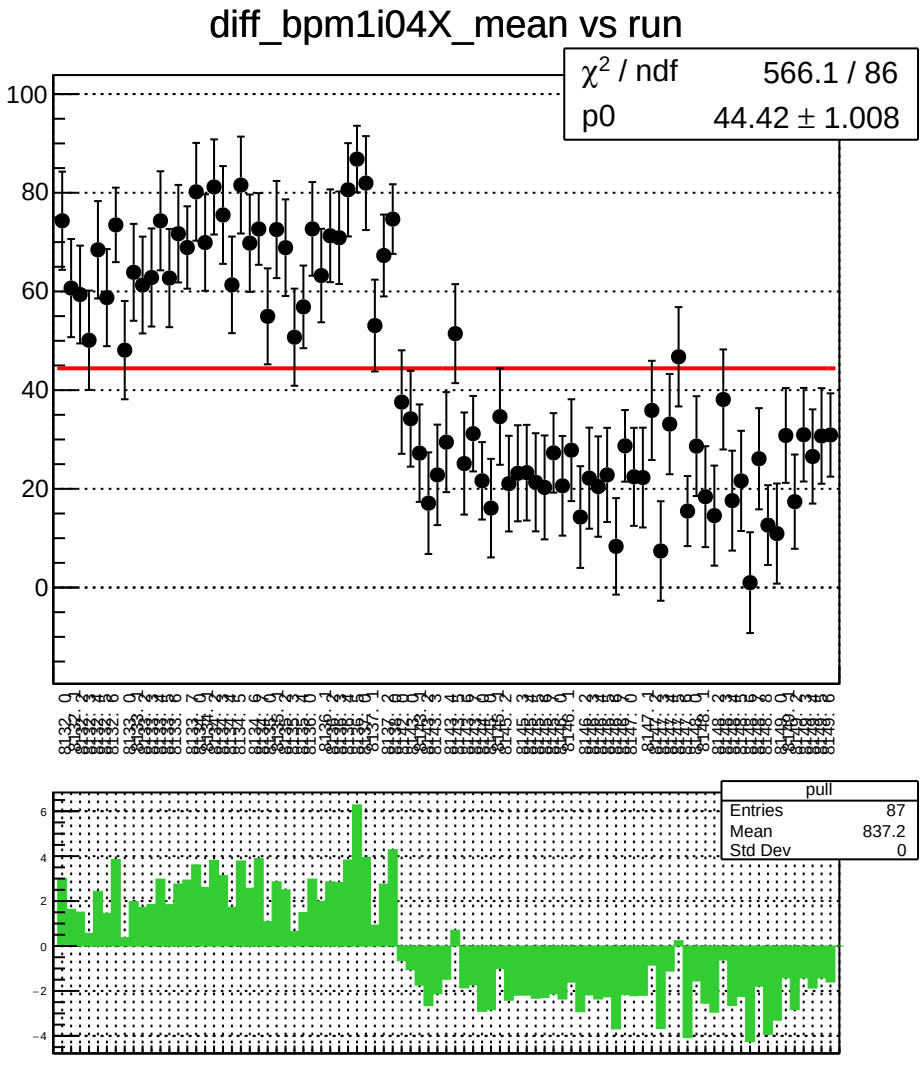

pull1D
Entries 87
Mean 0.05123
Std Dev 2.957

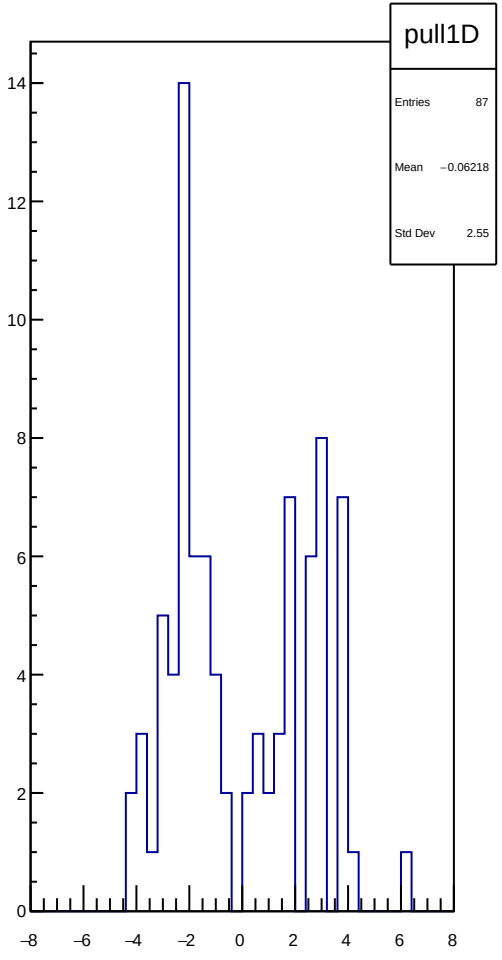

diff_bpm1i02X_rms vs run
χ² / ndf 428 / 86
p0 615.6 ± 0.4696
650
640
630
620
610
600
590

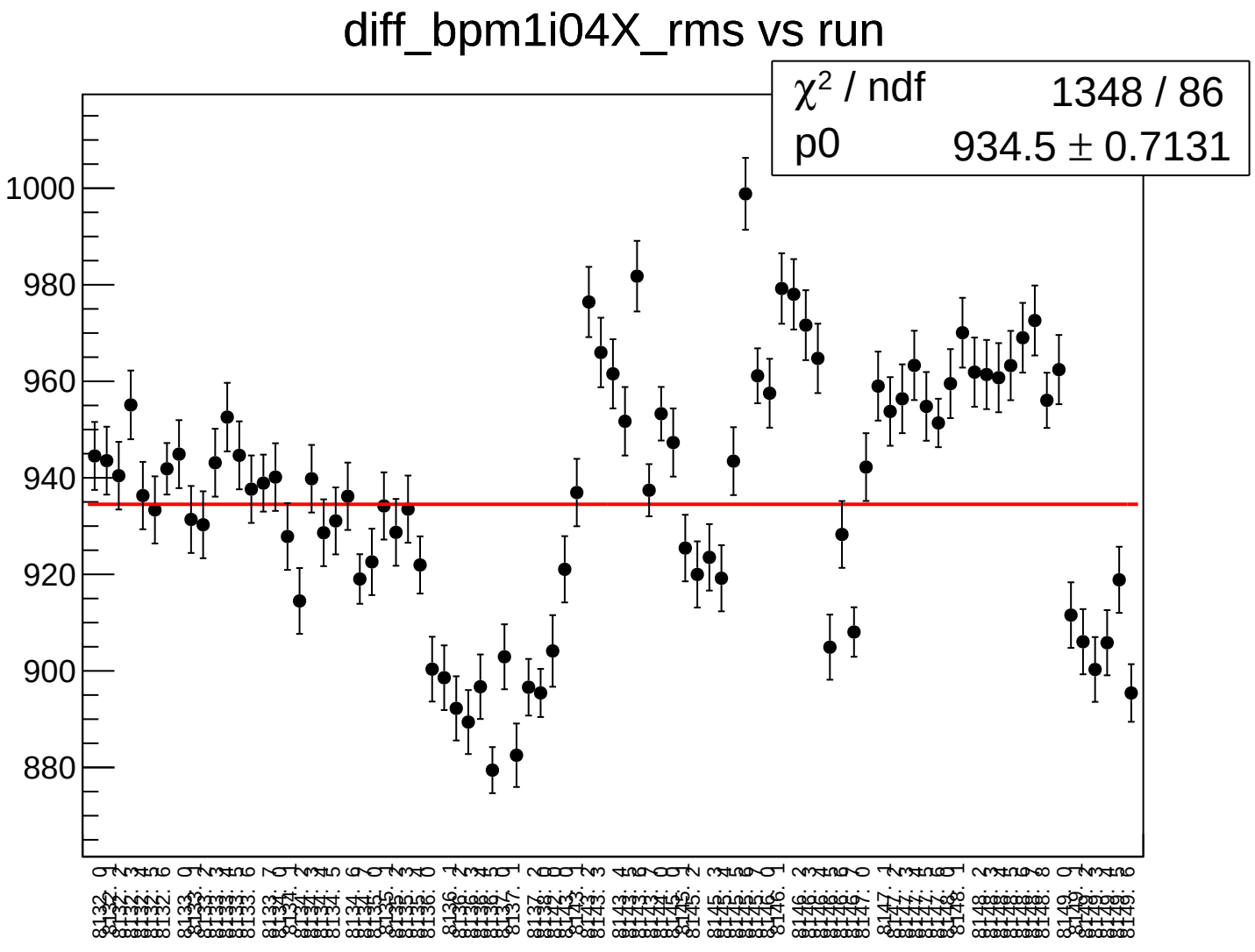

diff_bpm1i02Y_mean vs run
χ^2 / ndf 545.6 / 86
p0 30.87 ± 0.532
pull
Entries 87
Mean 877.3
Std Dev 0

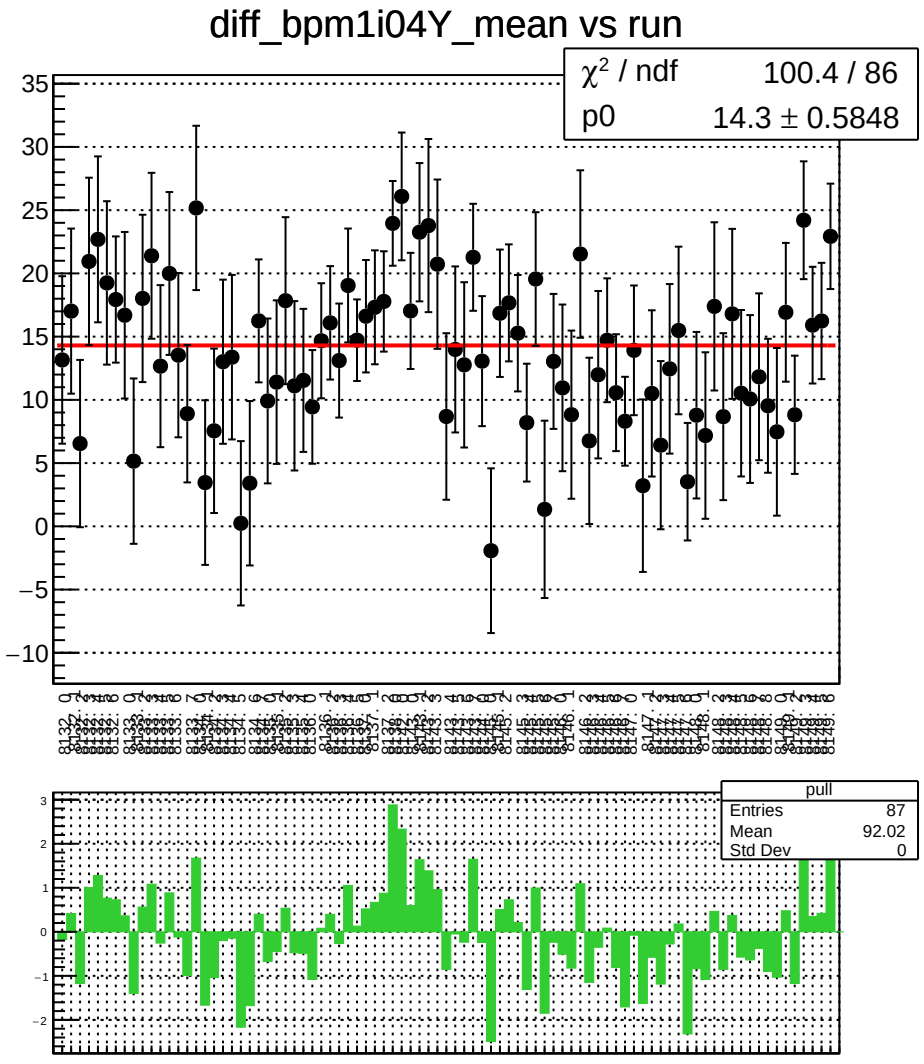

pull1D
Entries 87
Mean −0.05921
Std Dev 2.504

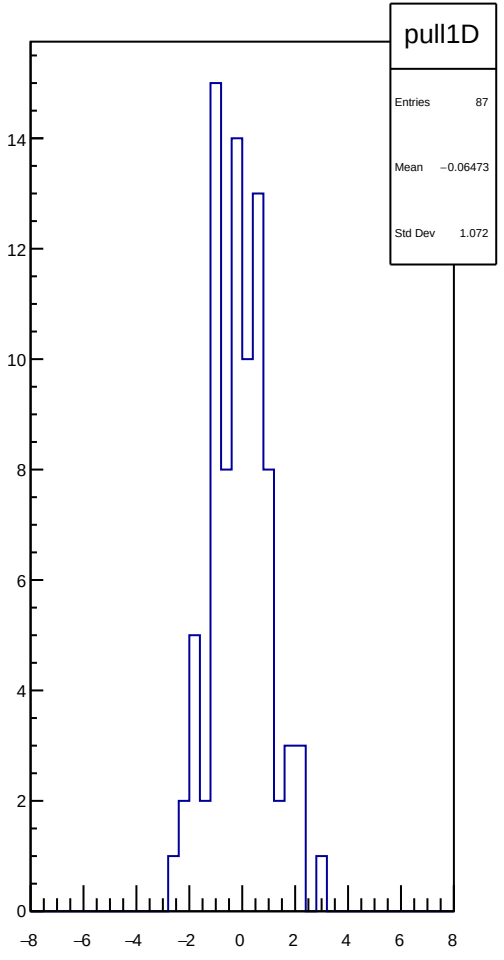

diff_bpm1i02Y_rms vs run
χ² / ndf 562.7 / 86
p0 493.1 ± 0.3762
520
510
500
490
480
470

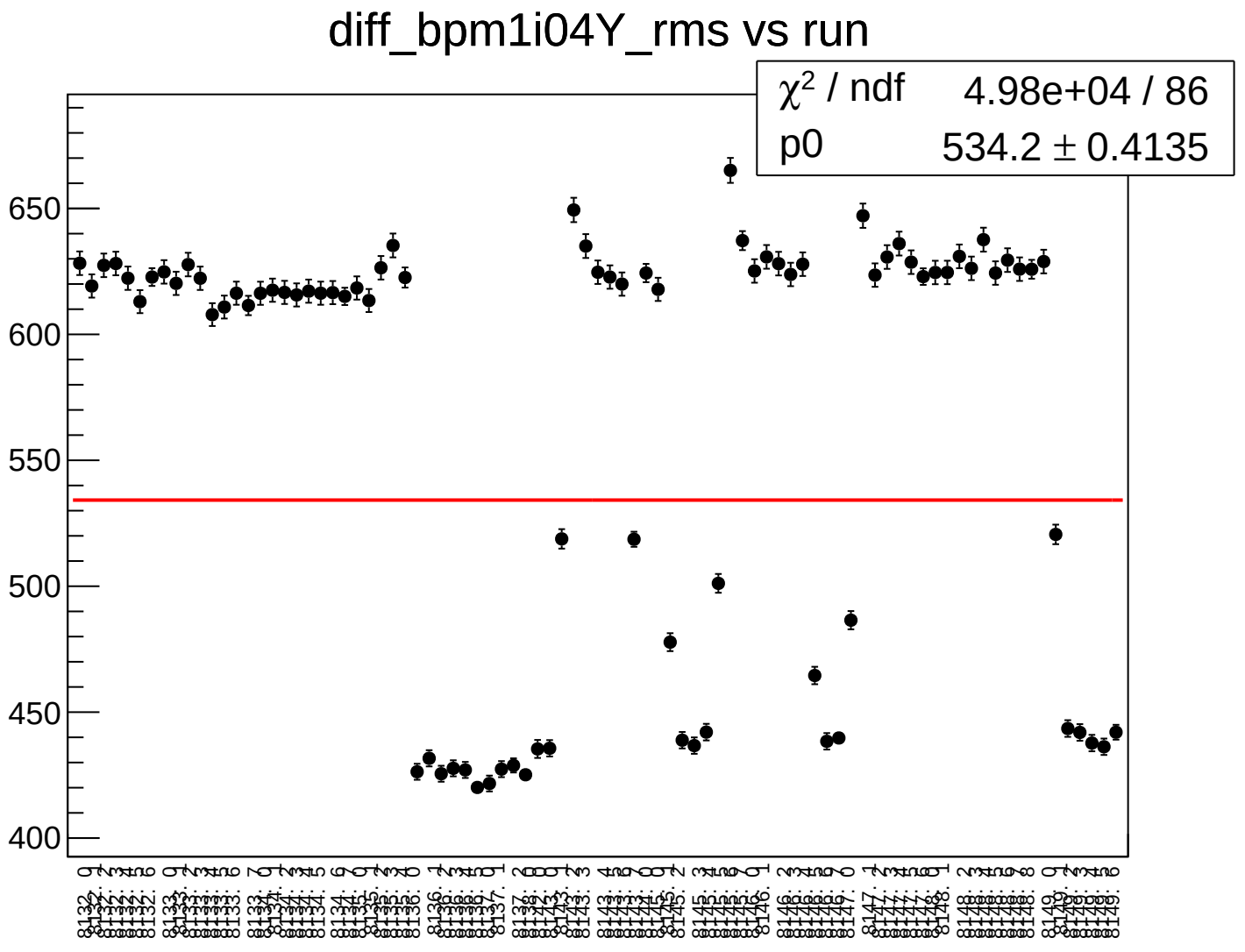

diff_bpm1i04X_mean vs run
χ^2 / ndf 566.1 / 86
p0 44.42 ± 1.008
pull
Entries 87
Mean 837.2
Std Dev 0

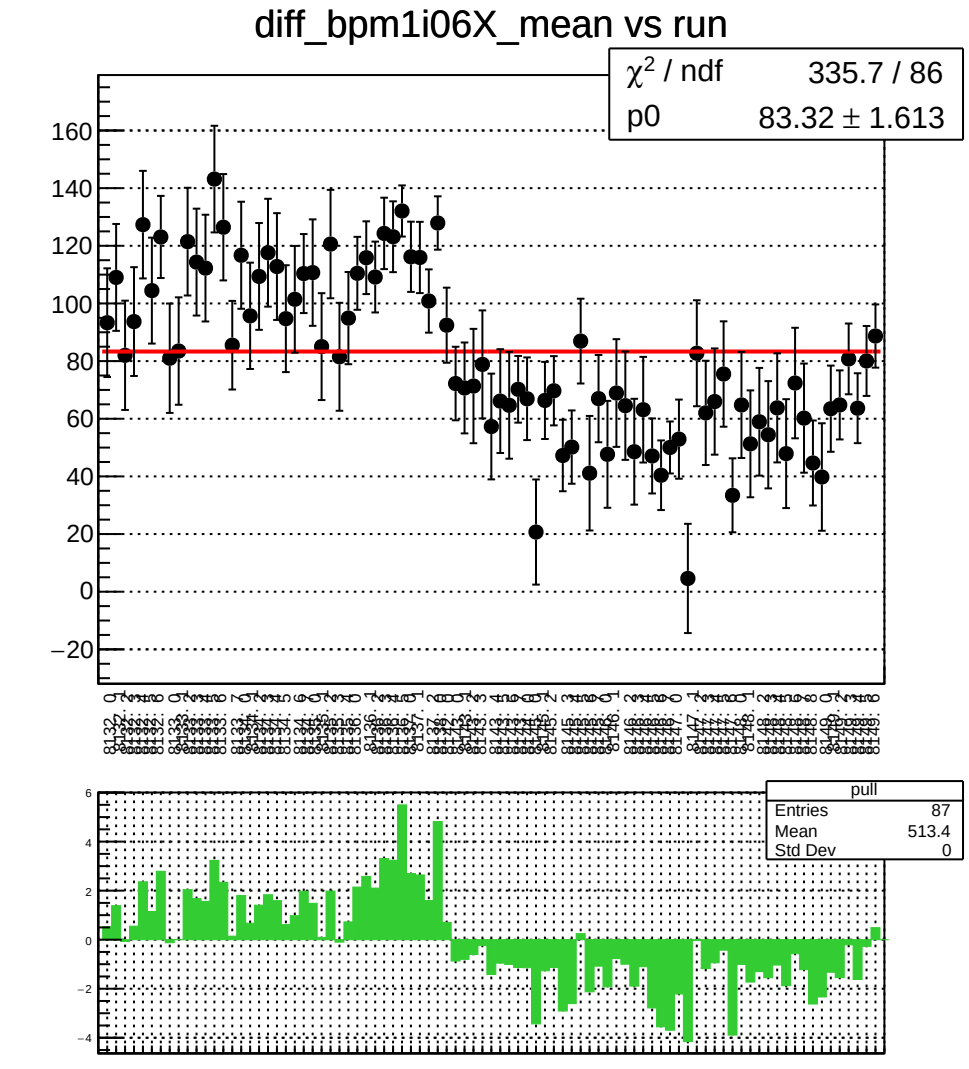

pull1D
Entries 87
Mean −0.06218
Std Dev 2.55

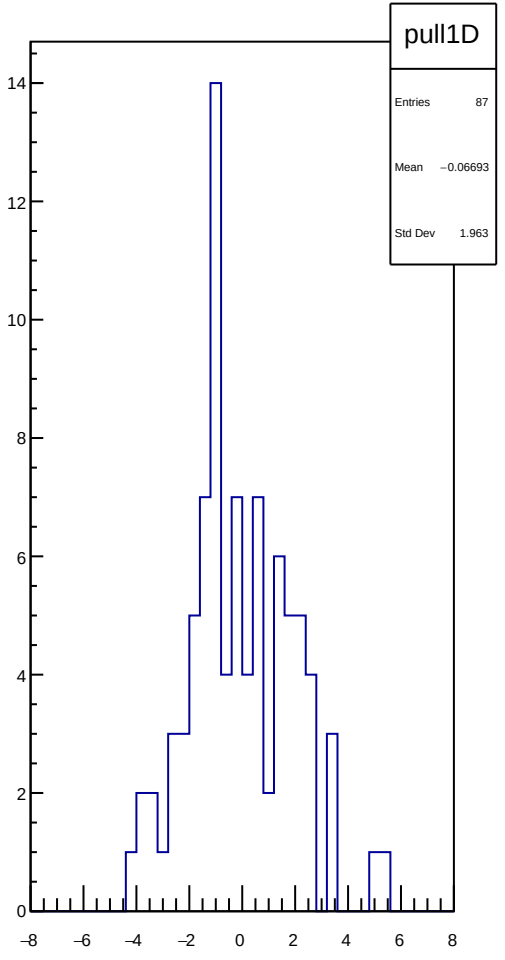

diff_bpm1i04X_rms vs run
χ² / ndf 1348 / 86
p0 934.5 ± 0.7131
1000
980
960
940
920
900
880

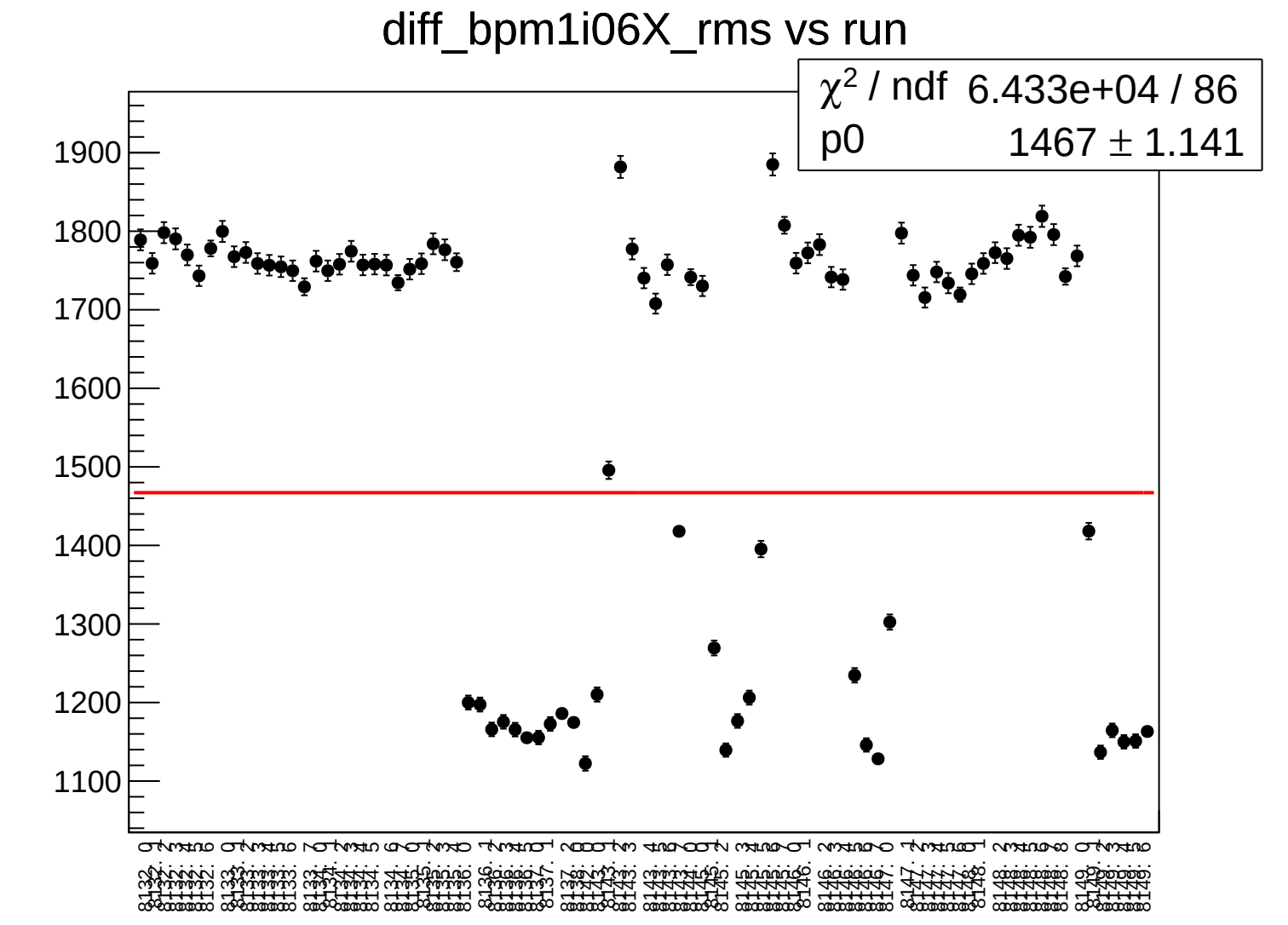

diff_bpm1i04Y_mean vs run
χ² / ndf 100.4 / 86
p0 14.3 ± 0.5848
pull
Entries 87
Mean 92.02
Std Dev 0

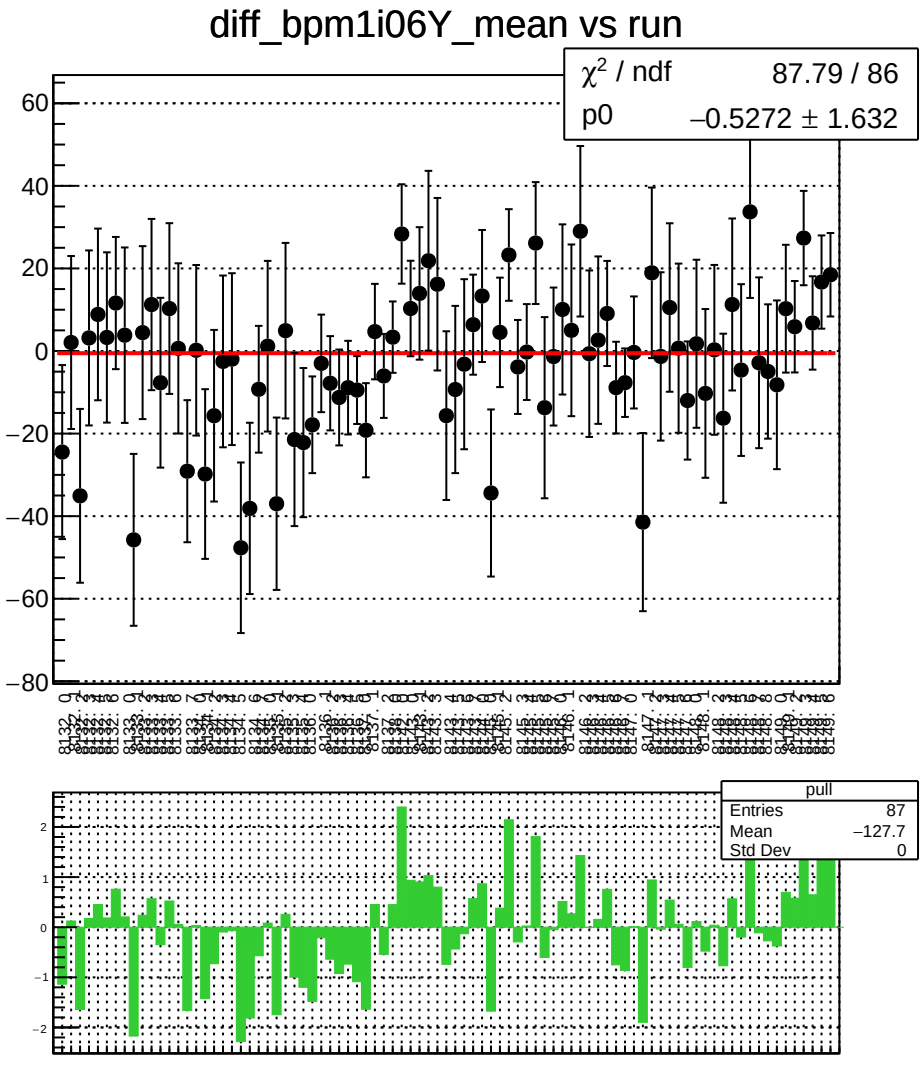

pull1D
Entries 87
Mean −0.06473
Std Dev 1.072

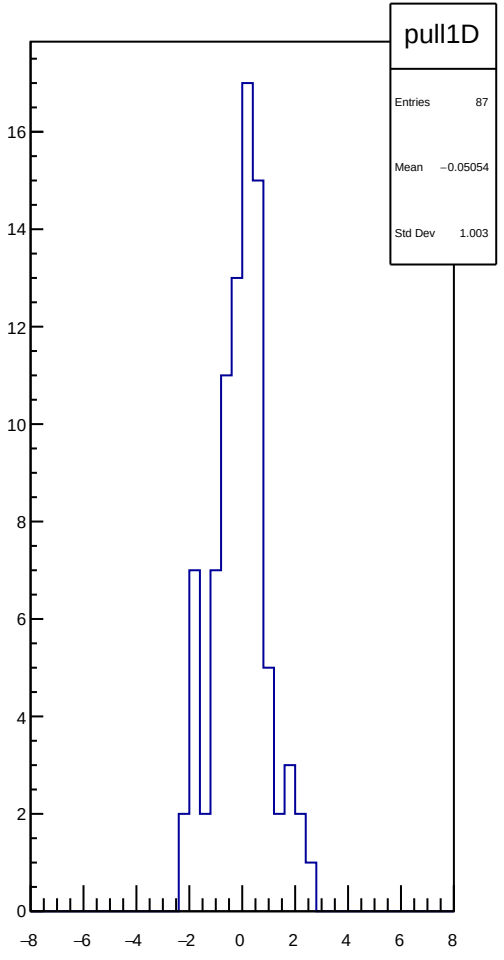

diff_bpm1i04Y_rms vs run
χ² / ndf 4.98e+04 / 86
p0 534.2 ± 0.4135
650
600
550
500
450
400

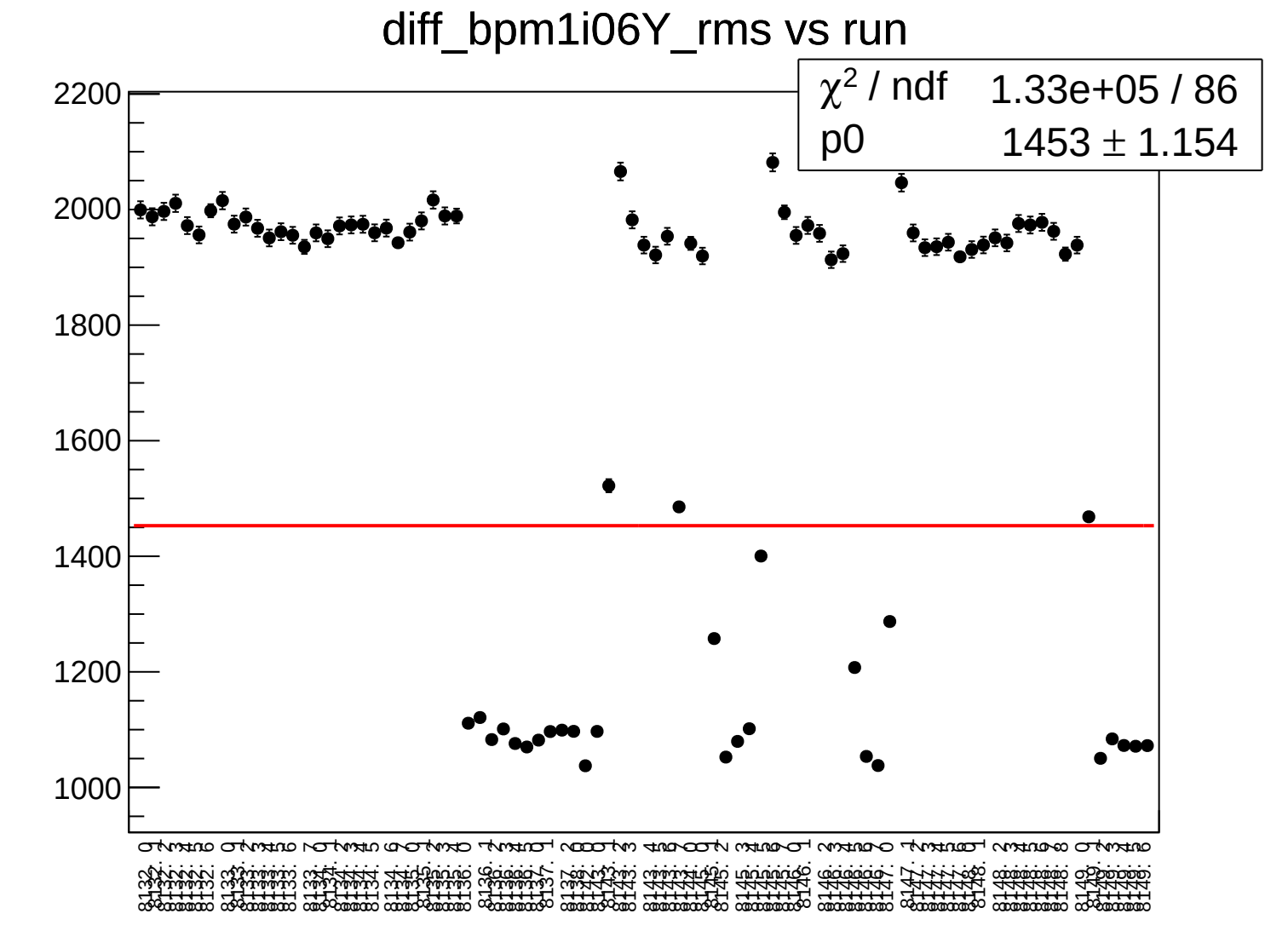

diff_bpm1i06X_mean vs run
χ^2 / ndf 335.7 / 86
p0 83.32 ± 1.613
pull
Entries 87
Mean 513.4
Std Dev 0

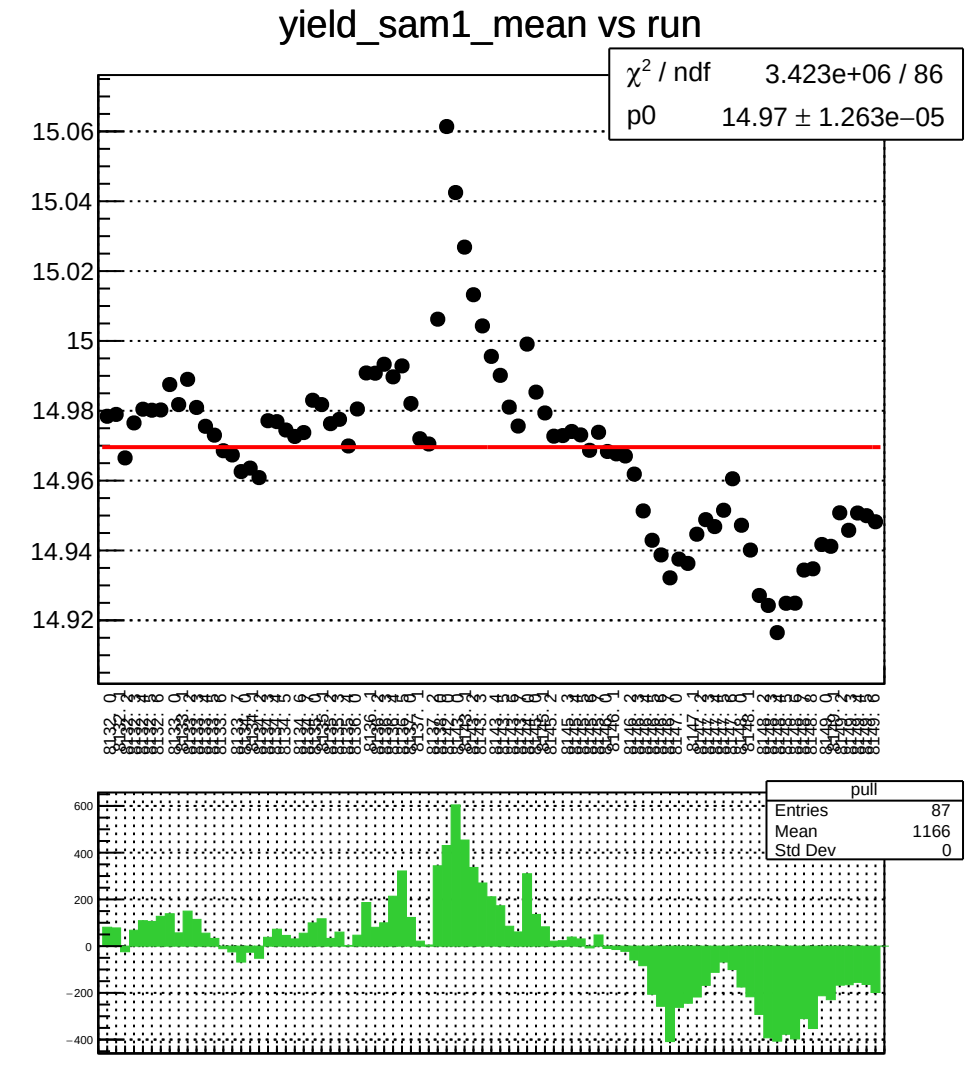

pull1D
Entries 87
Mean −0.06693
Std Dev 1.963

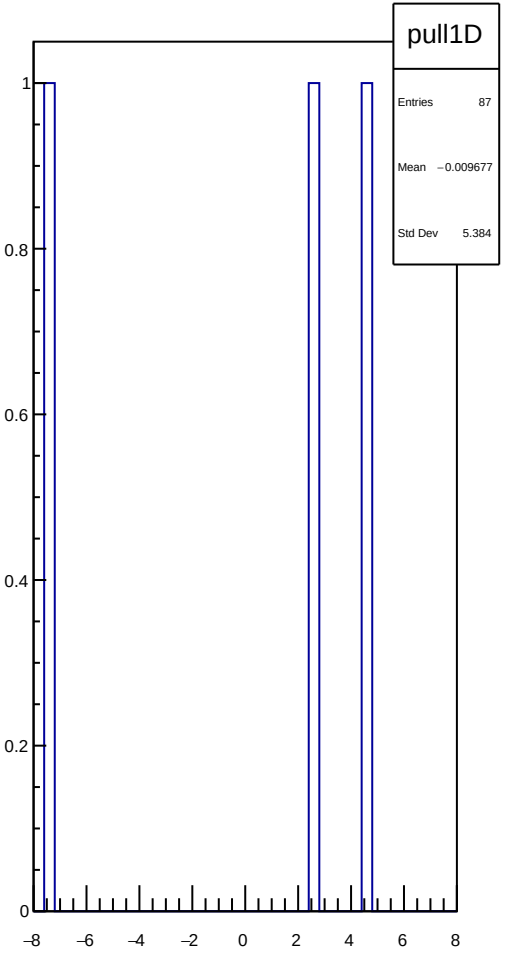

diff_bpm1i06X_rms vs run
χ^2 / ndf 6.433e+04 / 86
p0 1467 ± 1.141
1900
1800
1700
1600
1500
1400
1300
1200
1100

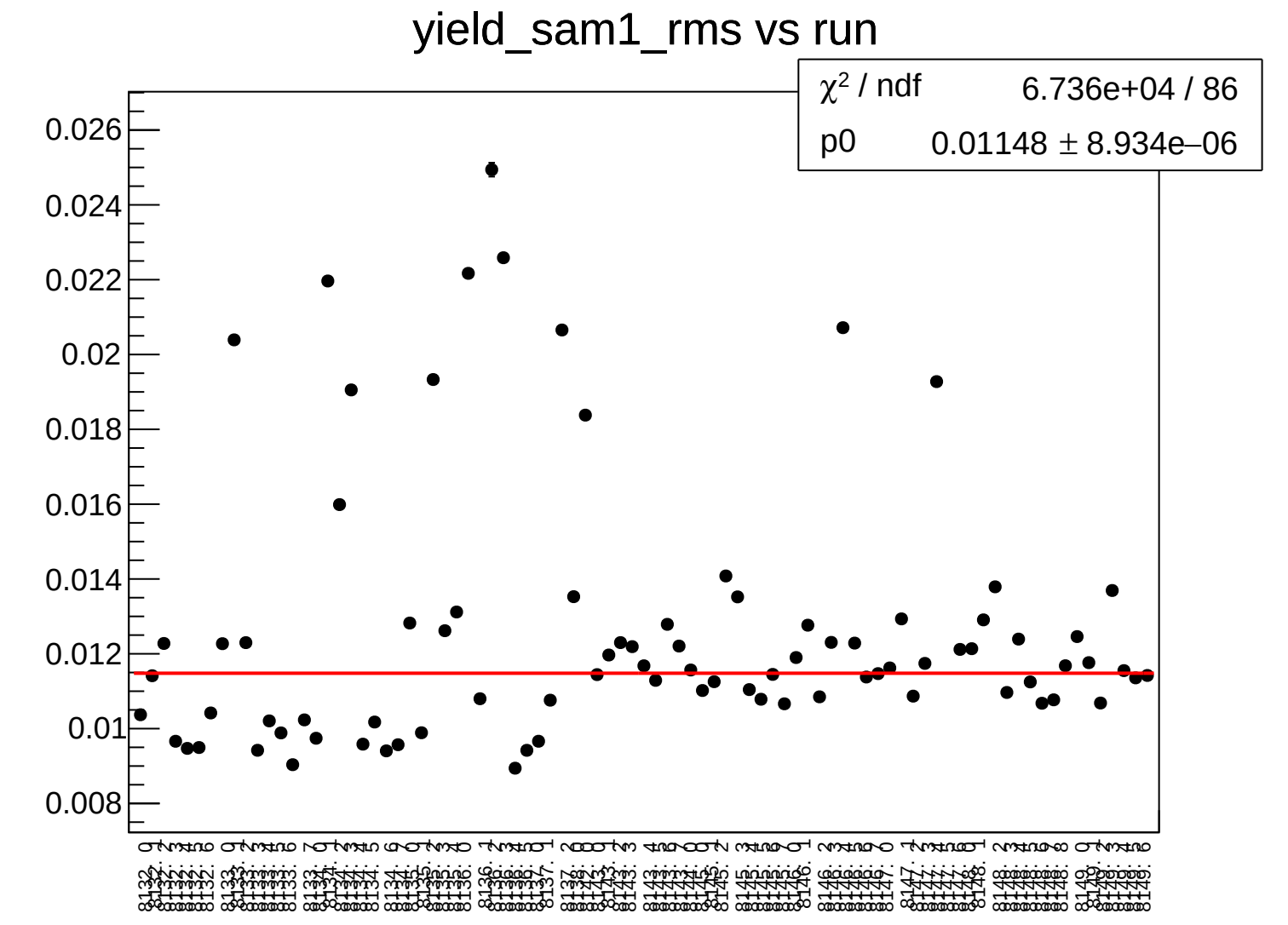

diff_bpm1i06Y_mean vs run
χ² / ndf 87.79 / 86
p0 −0.5272 ± 1.632
pull
Entries 87
Mean −127.7
Std Dev 0

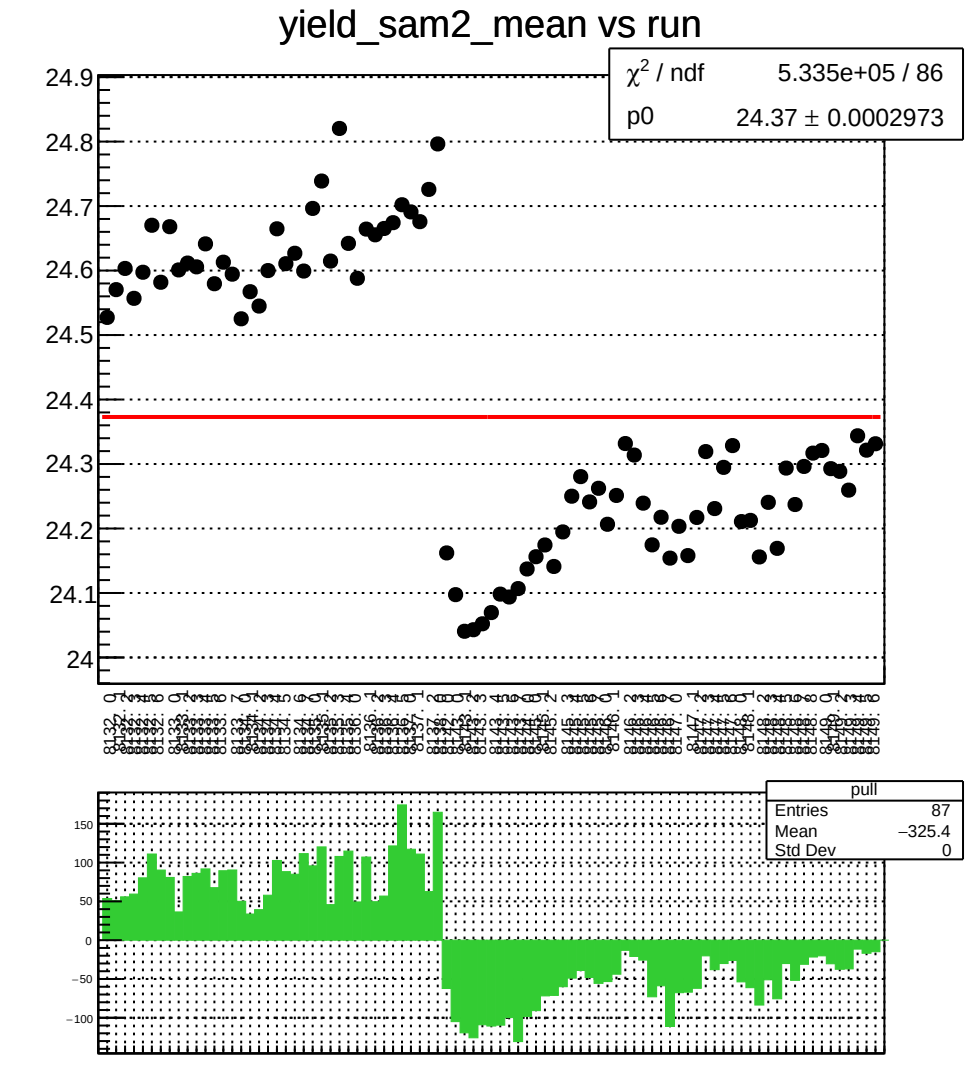

pull1D
Entries 87
Mean −0.05054
Std Dev 1.003

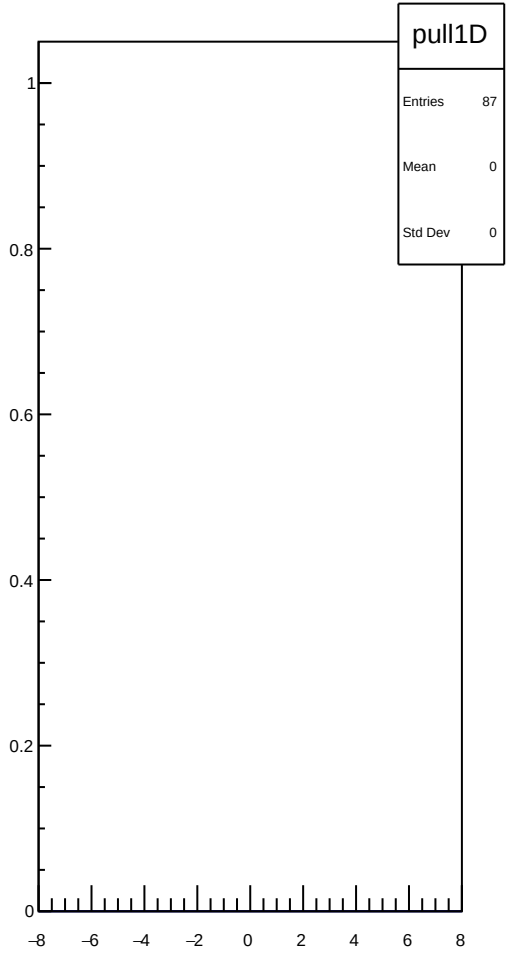

diff_bpm1i06Y_rms vs run
χ² / ndf 1.33e+05 / 86
p0 1453 ± 1.154
2200
2000
1800
1600
1400
1200
1000

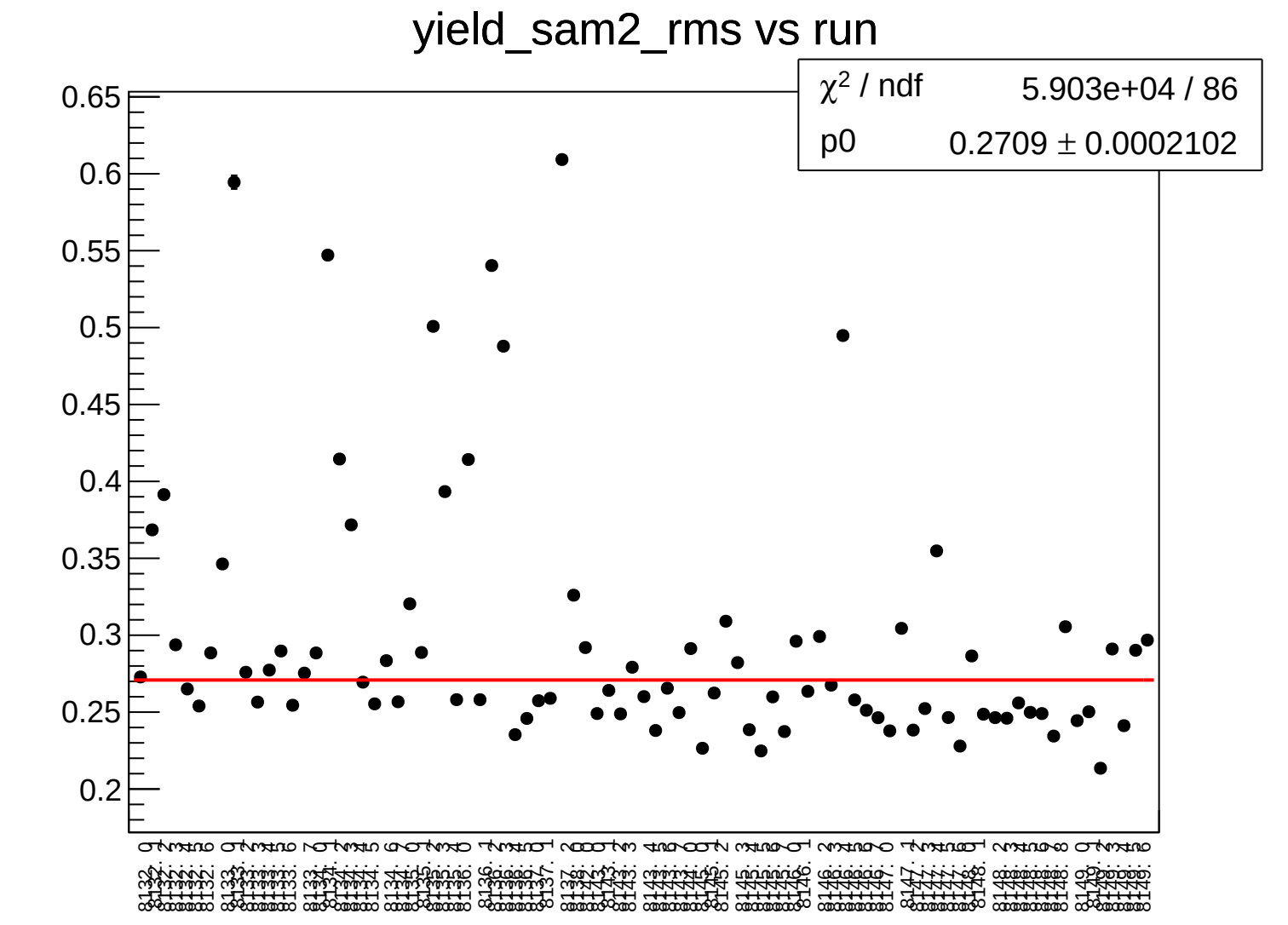

yield_sam1_mean vs run
χ² / ndf 3.423e+06 / 86
p0 14.97 ± 1.263e−05
15.06
15.04
15.02
15
14.98
14.96
14.94
14.92
pull
Entries 87
Mean 1166
Std Dev 0
600
400
200
0
−200
−400

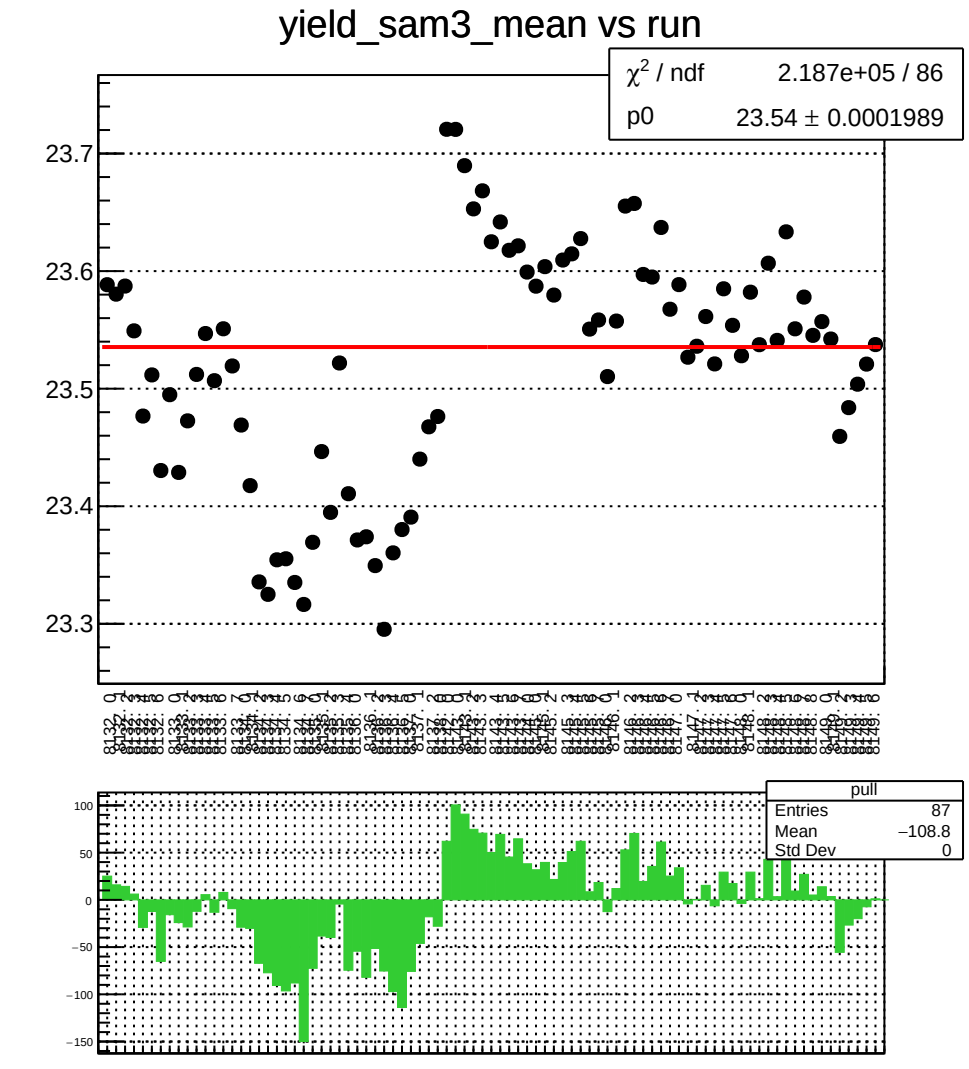

pull1D
Entries 87
Mean −0.009677
Std Dev 5.384
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

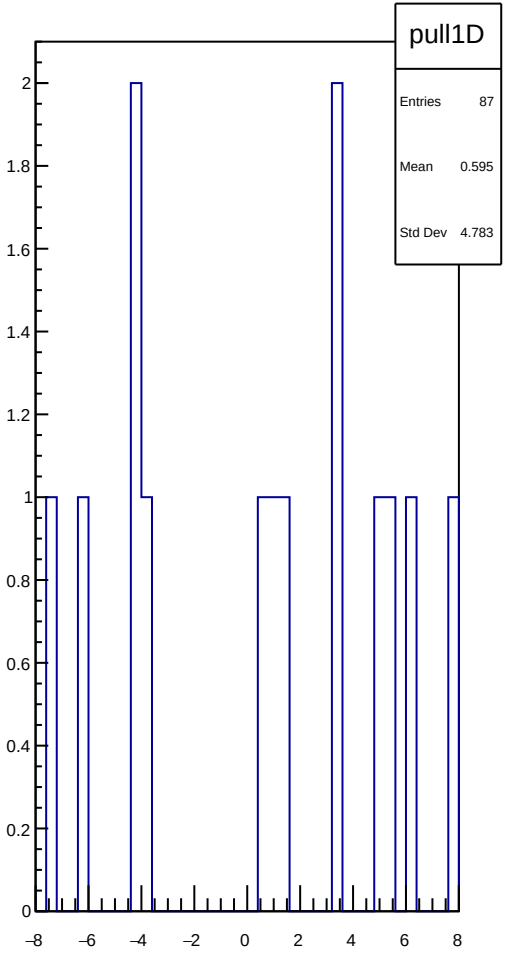

yield_sam1_rms vs run
χ² / ndf 6.736e+04 / 86
p0 0.01148 ± 8.934e–06
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

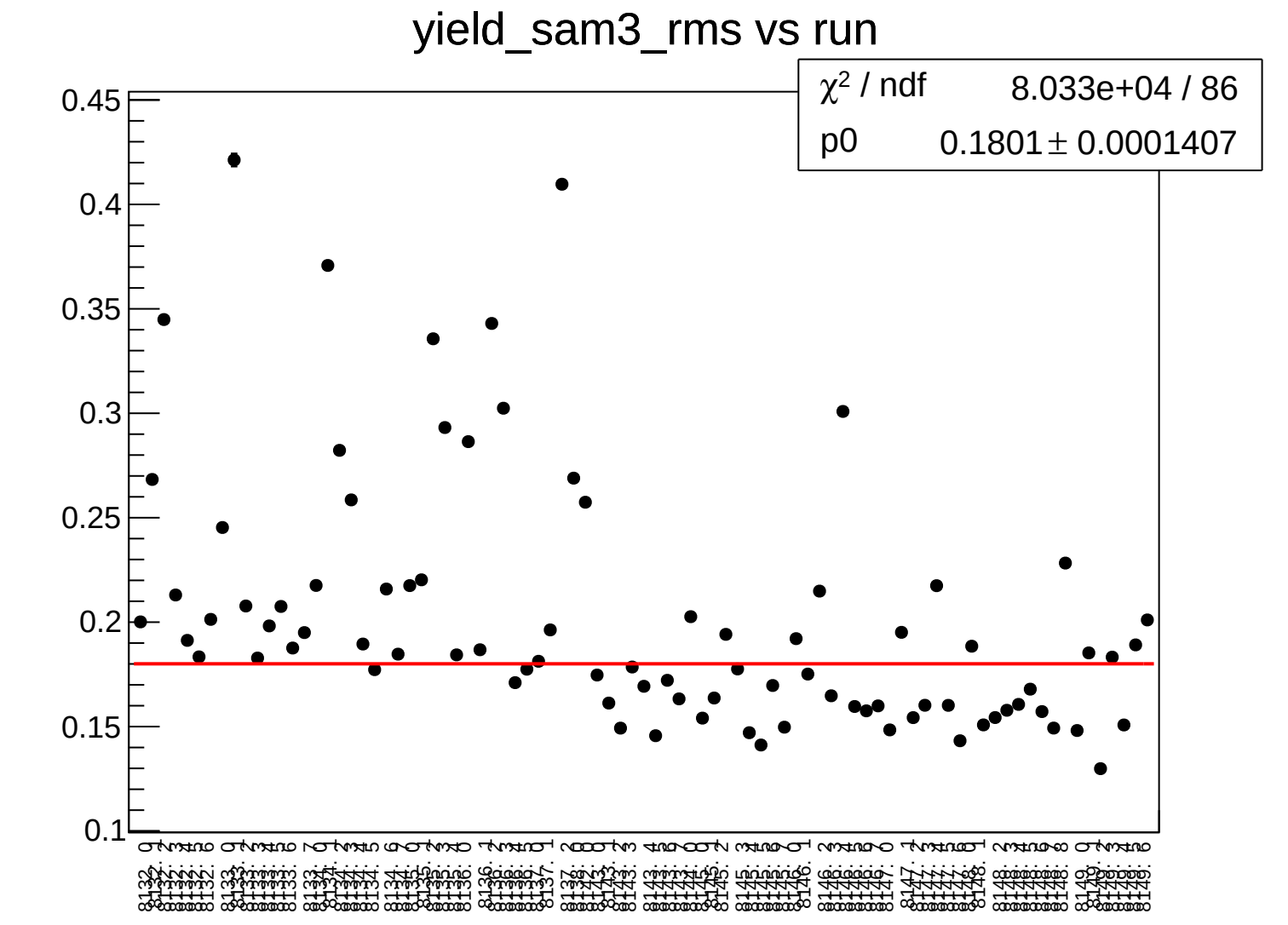

yield_sam2_mean vs run
χ² / ndf 5.335e+05 / 86
p0 24.37 ± 0.0002973
24.9
24.8
24.7
24.6
24.5
24.4
24.3
24.2
24.1
24
pull
Entries 87
Mean −325.4
Std Dev 0
150
100
50
0
−50
−100

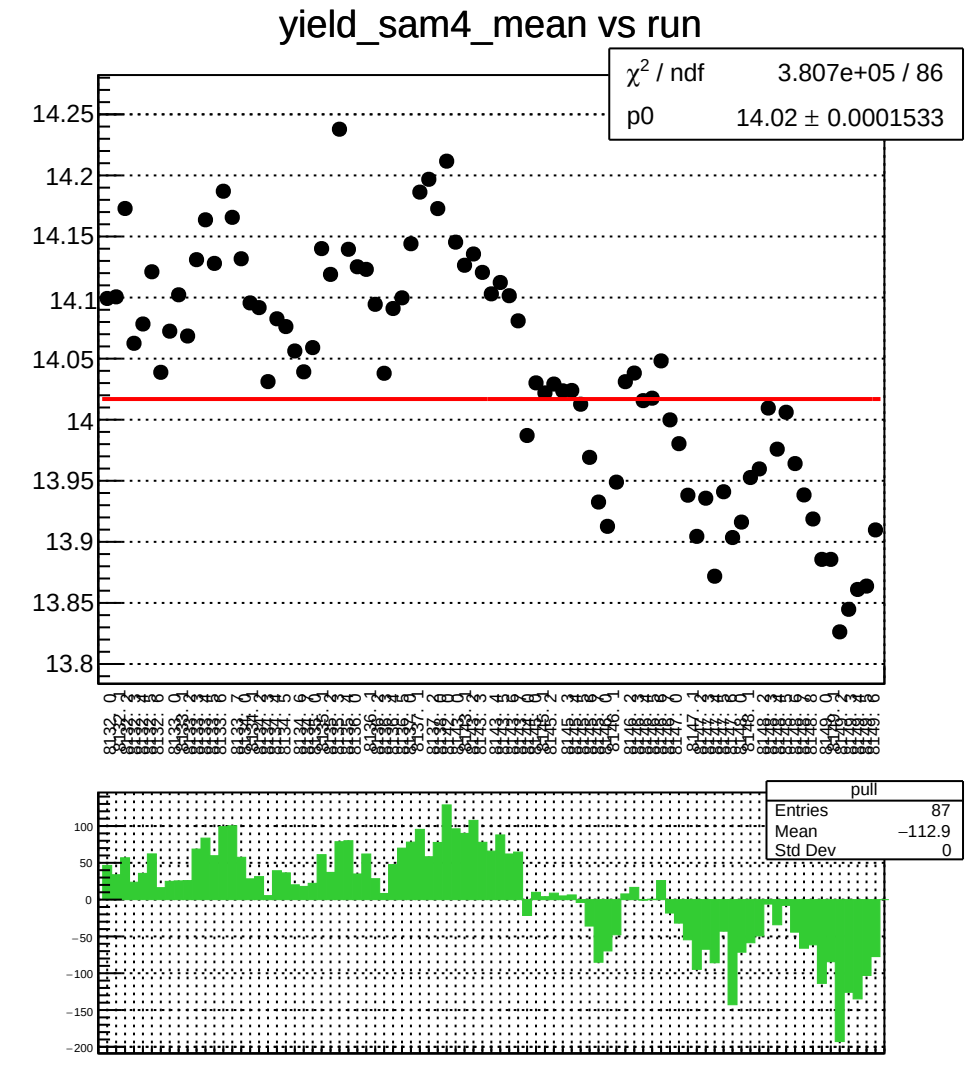

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

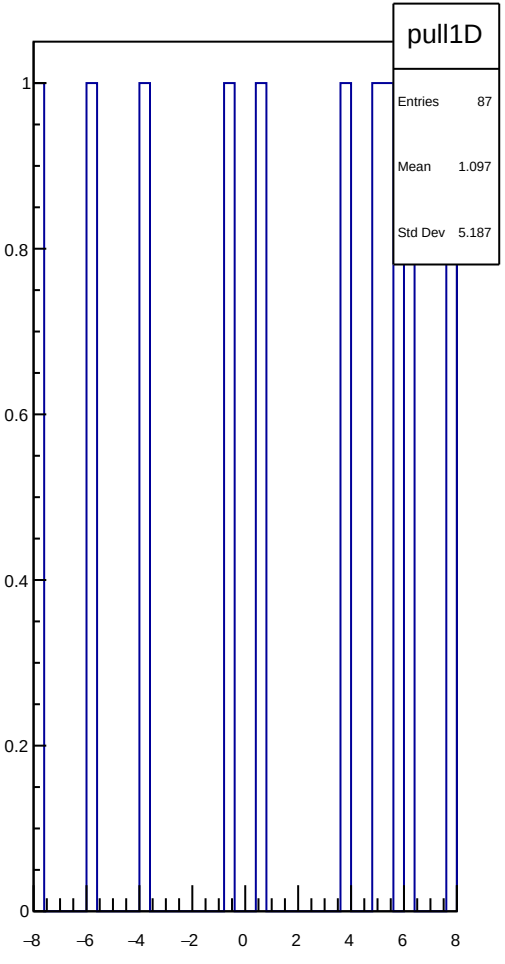

yield_sam2_rms vs run
χ² / ndf 5.903e+04 / 86
p0 0.2709 ± 0.0002102
0.65
0.6
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2

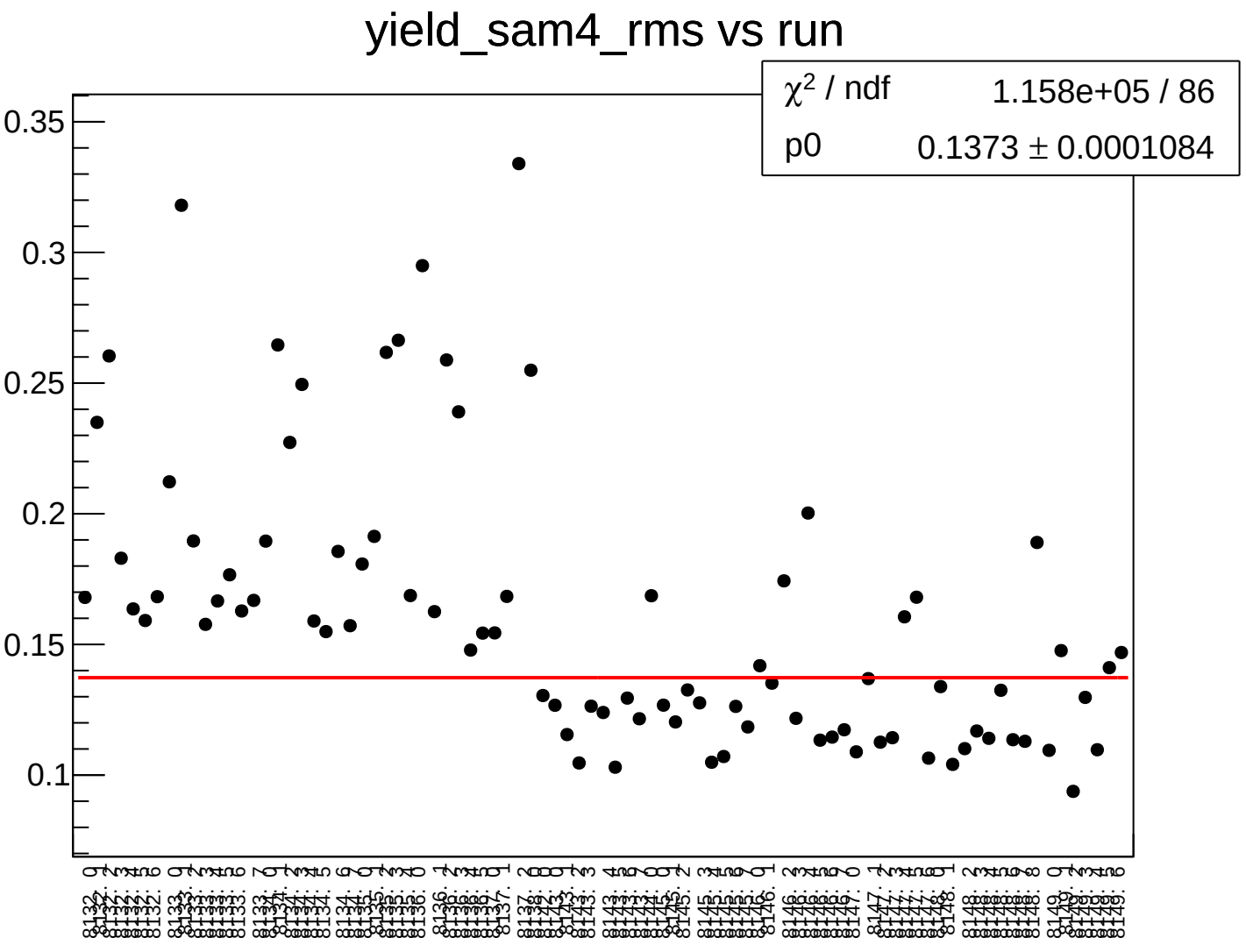

yield_sam3_mean vs run
χ² / ndf 2.187e+05 / 86
p0 23.54 ± 0.0001989
23.7
23.6
23.5
23.4
23.3
pull
Entries 87
Mean −108.8
Std Dev 0
100
50
0
−50
−100
−150

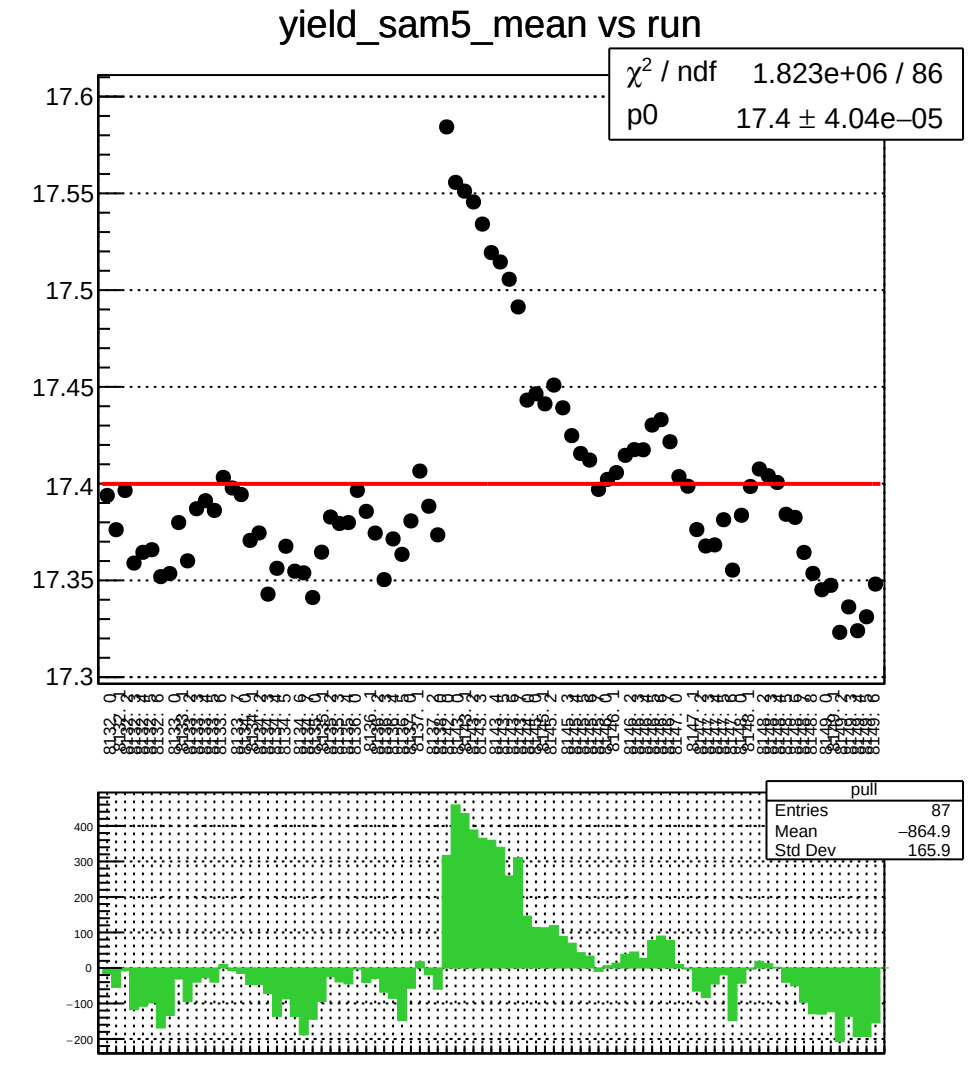

pull1D
Entries 87
Mean 0.595
Std Dev 4.783
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

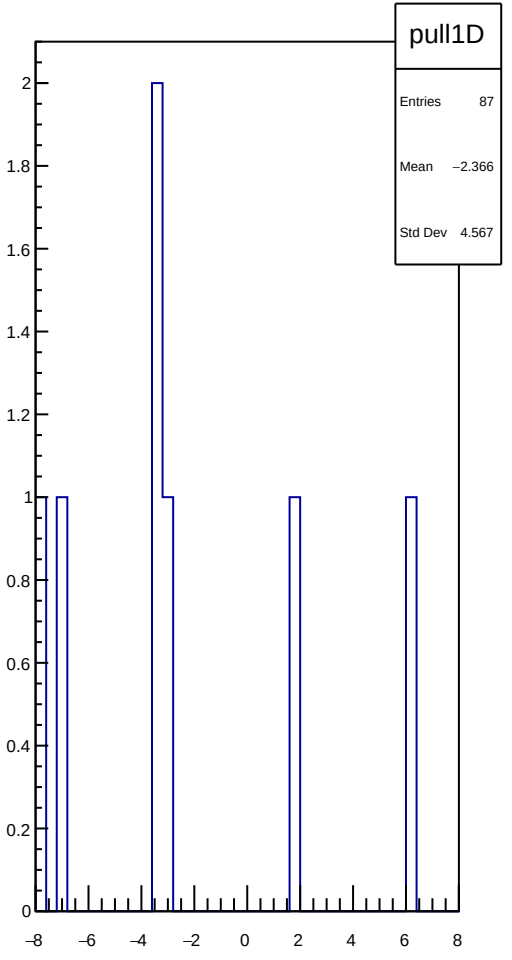

yield_sam3_rms vs run
χ² / ndf 8.033e+04 / 86
p0 0.1801 ± 0.0001407
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1

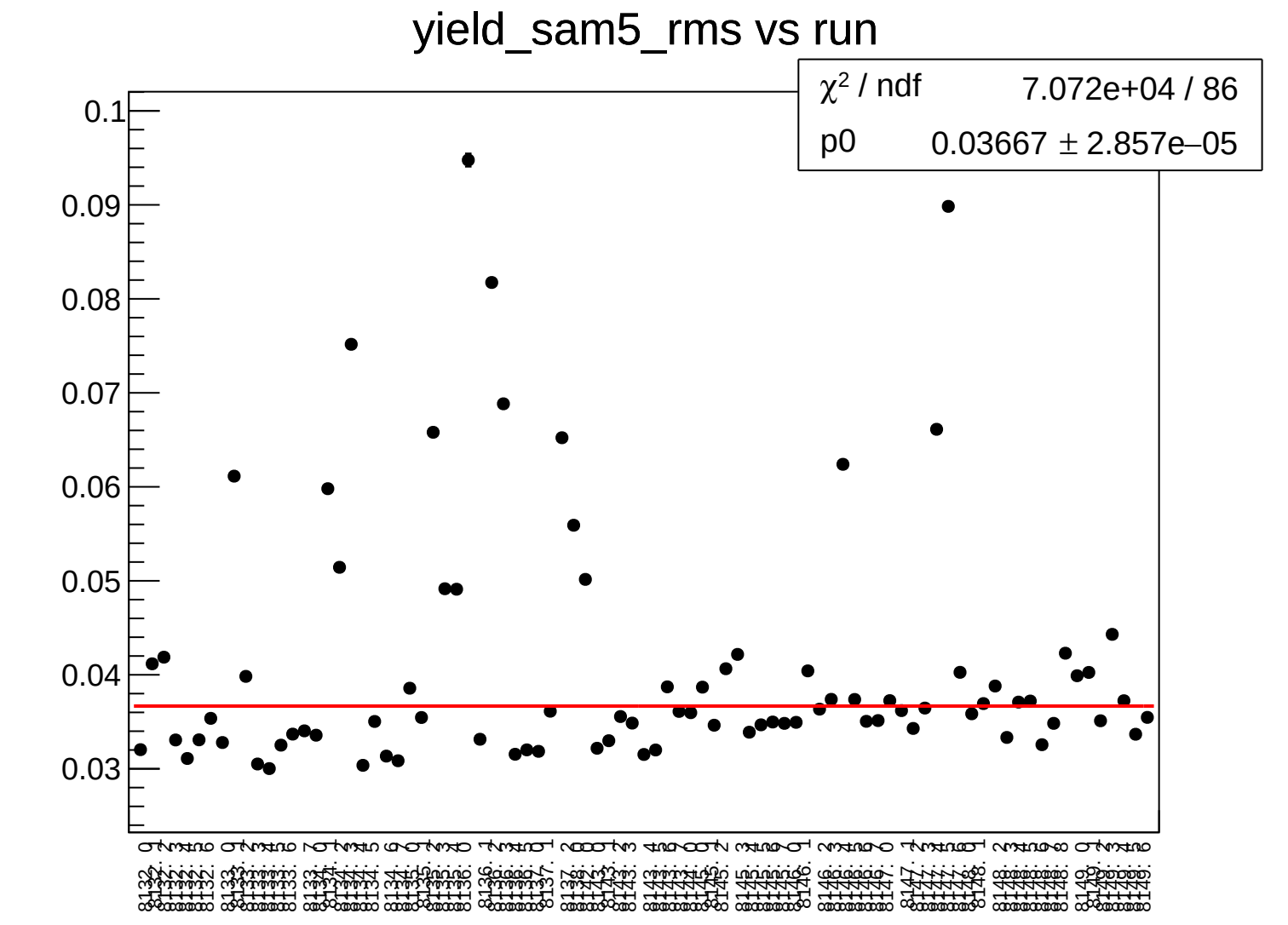

yield_sam4_mean vs run
χ² / ndf 3.807e+05 / 86
p0 14.02 ± 0.0001533
14.25
14.2
14.15
14.1
14.05
14
13.95
13.9
13.85
13.8
pull
Entries 87
Mean −112.9
Std Dev 0
100
50
0
−50
−100
−150
−200

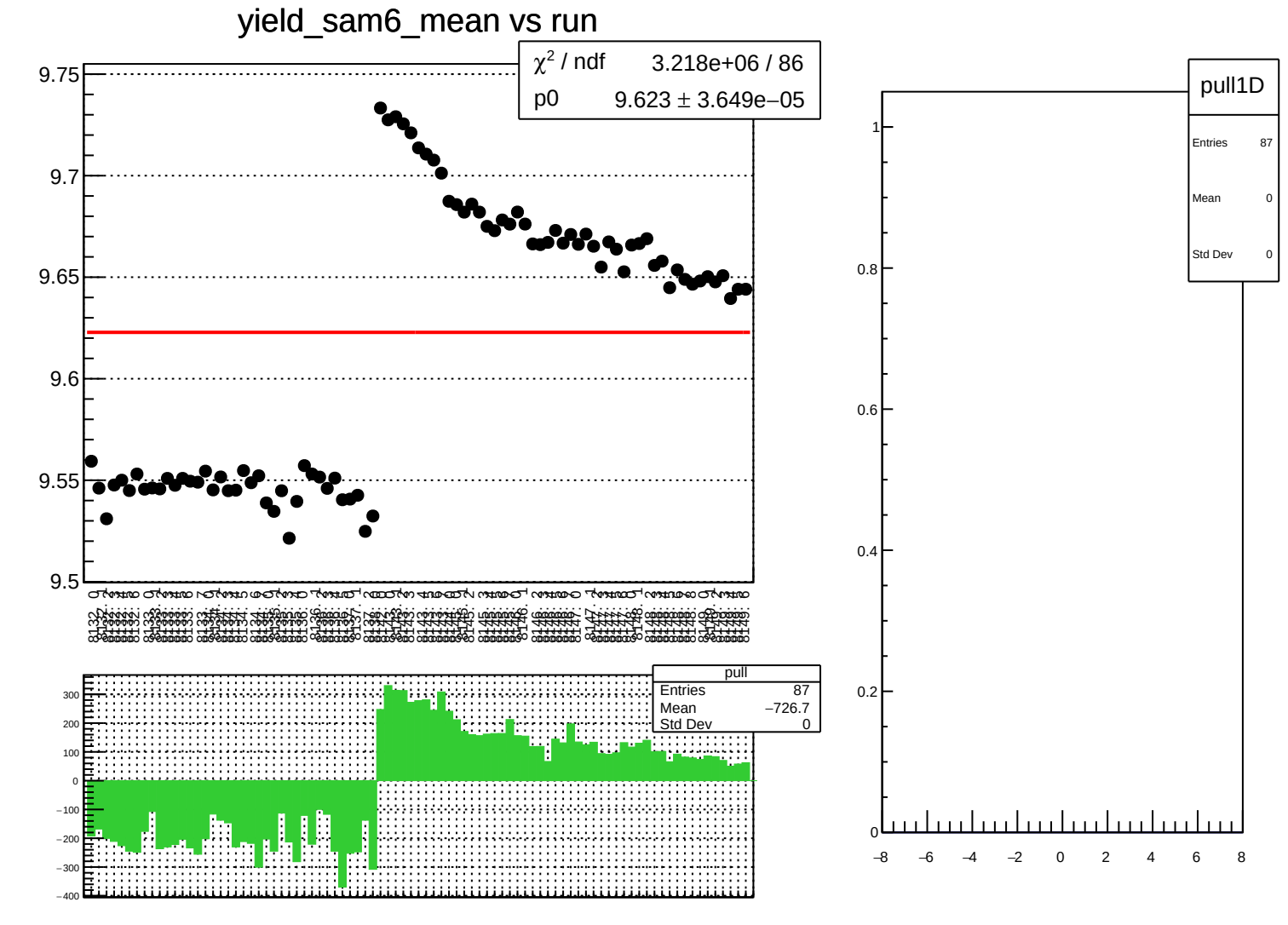

pull1D
Entries 87
Mean 1.097
Std Dev 5.187
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

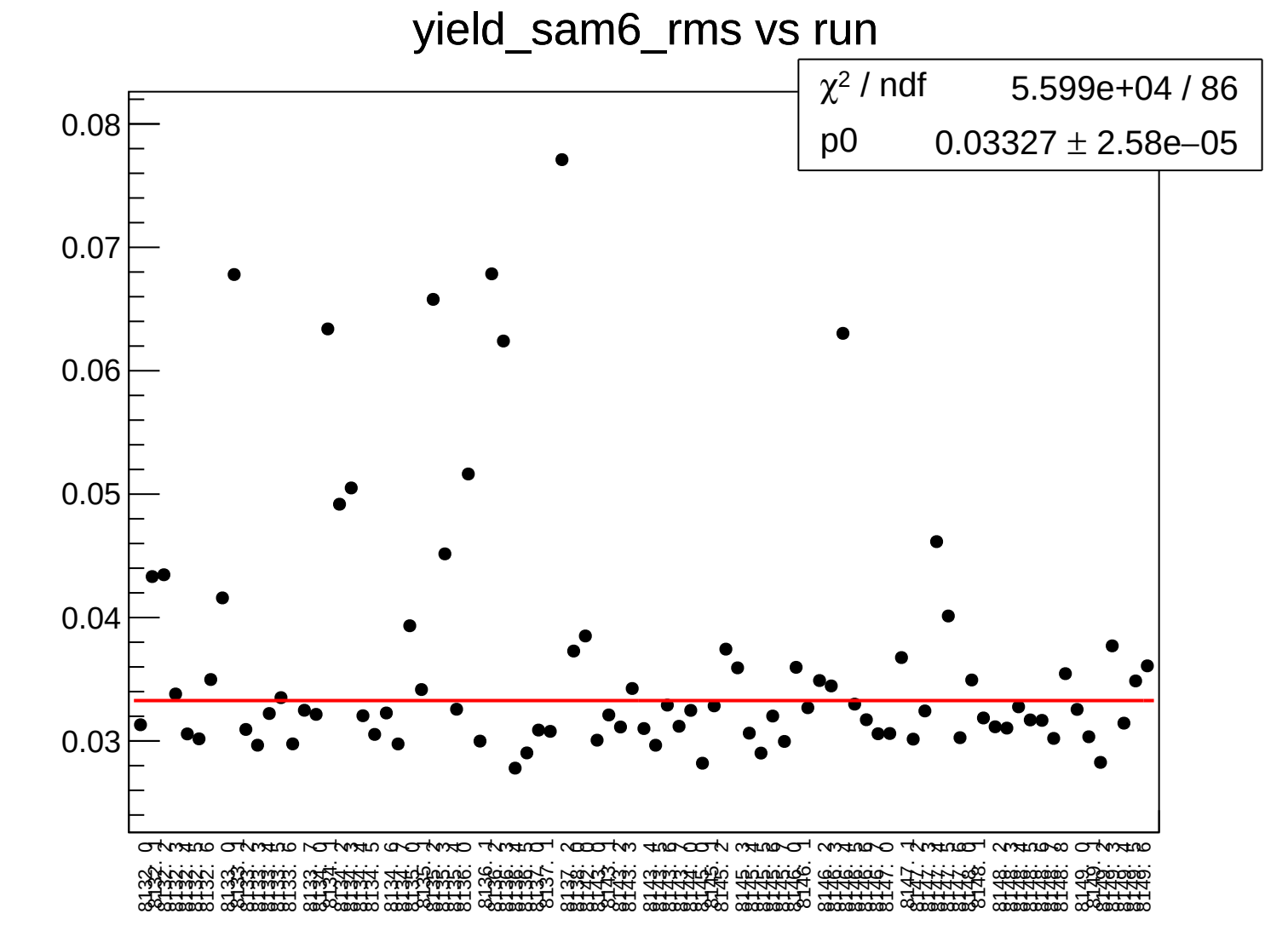

yield_sam4_rms vs run
χ² / ndf 1.158e+05 / 86
p0 0.1373 ± 0.0001084
0.35
0.3
0.25
0.2
0.15
0.1

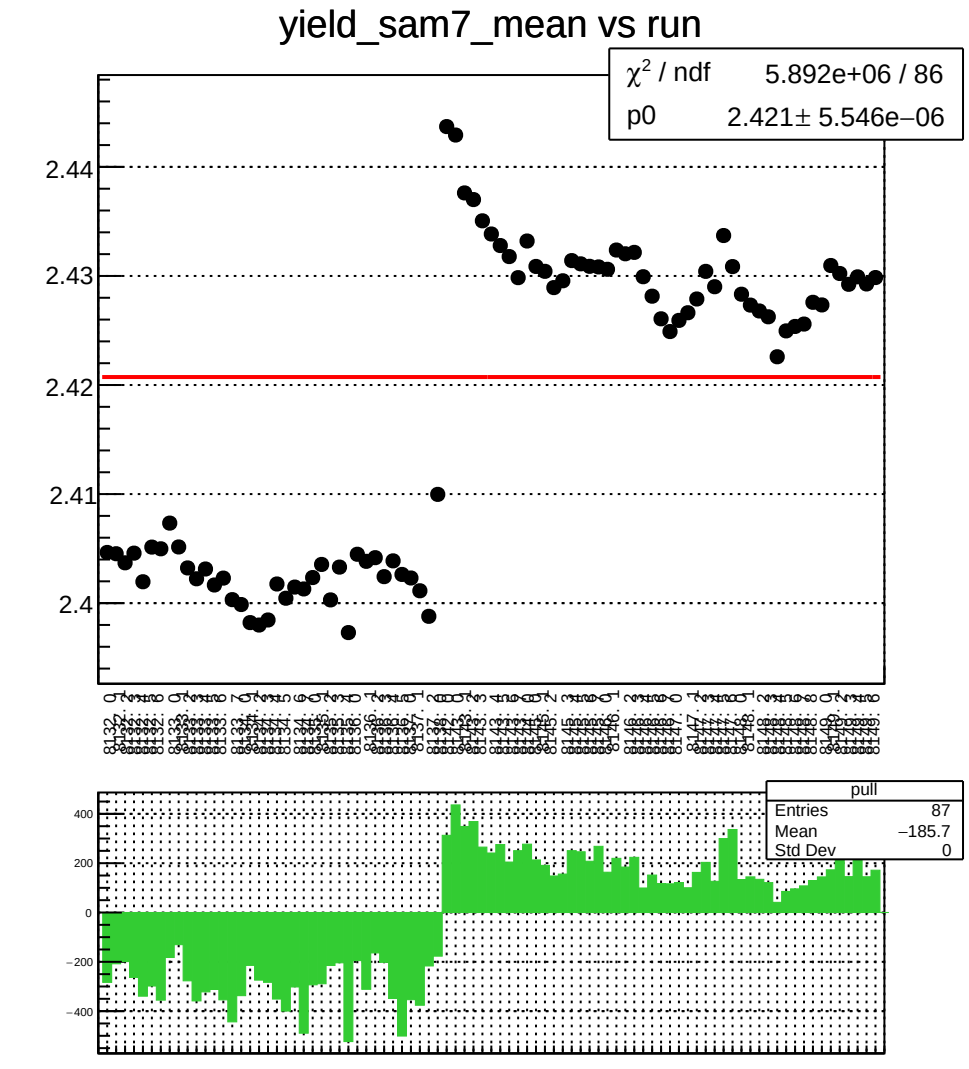

yield_sam5_mean vs run
χ² / ndf 1.823e+06 / 86
p0 17.4 ± 4.04e−05
17.6
17.55
17.5
17.45
17.4
17.35
17.3
pull
Entries 87
Mean −864.9
Std Dev 165.9
400
300
200
100
0
−100
−200

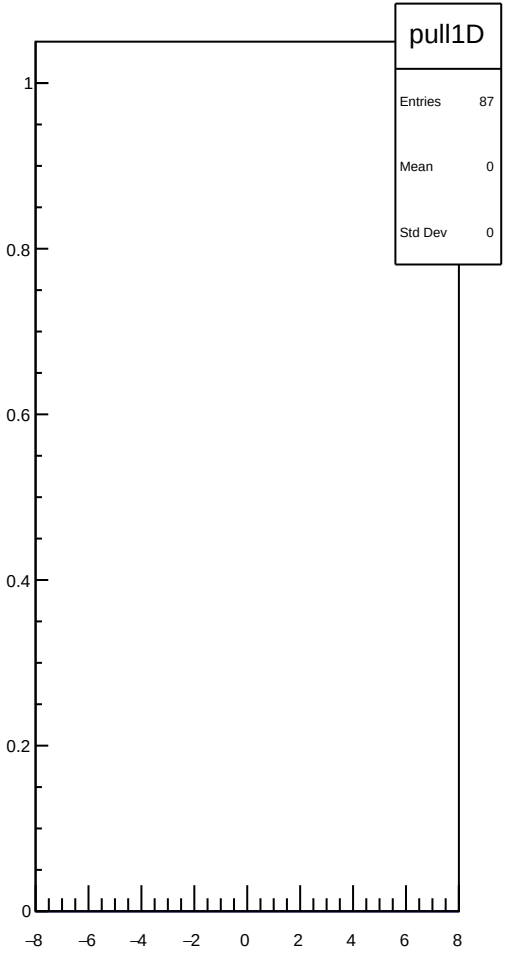

pull1D
Entries 87
Mean −2.366
Std Dev 4.567
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

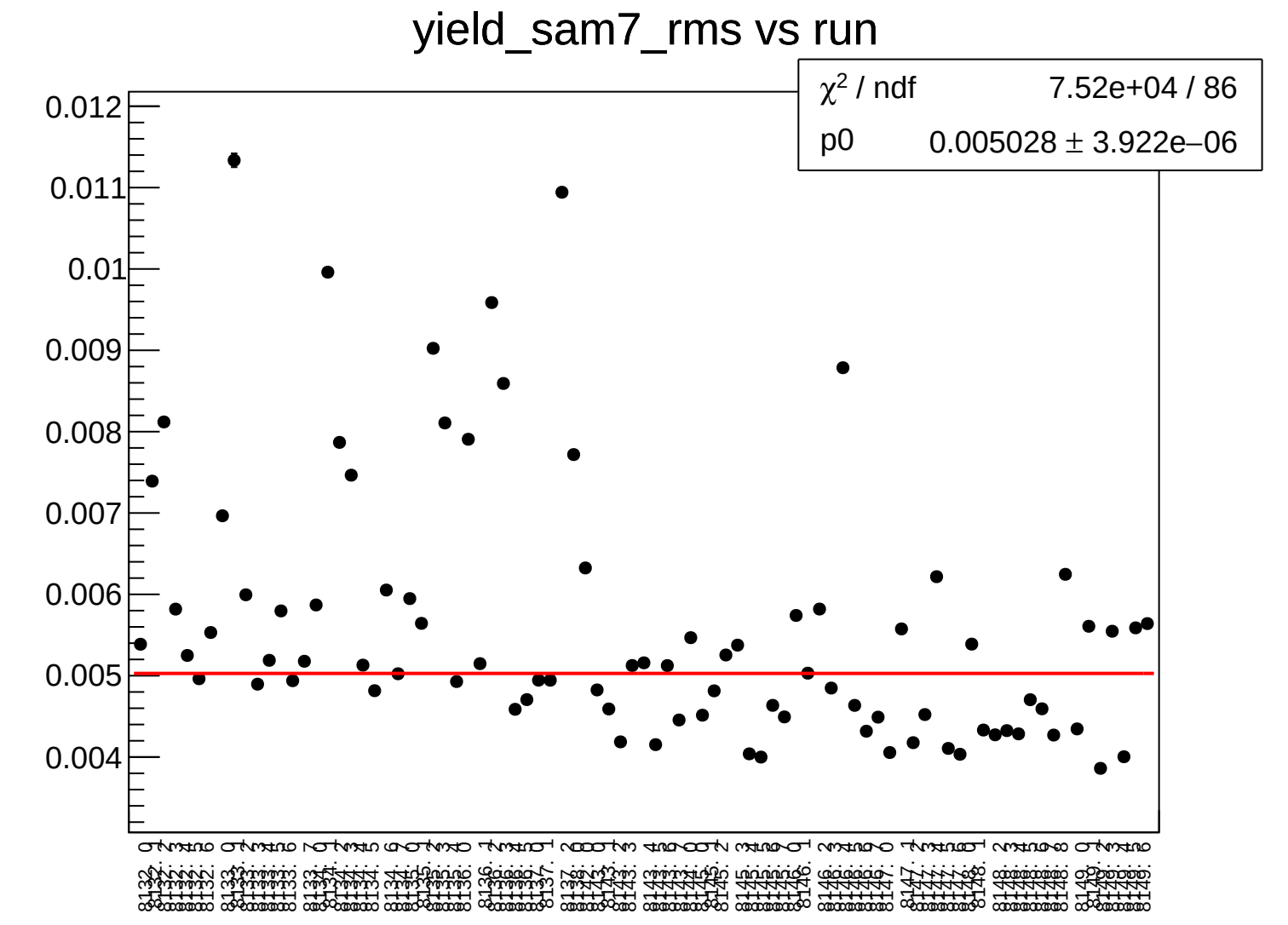

yield_sam5_rms vs run
χ² / ndf 7.072e+04 / 86
p0 0.03667 ± 2.857e−05
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03

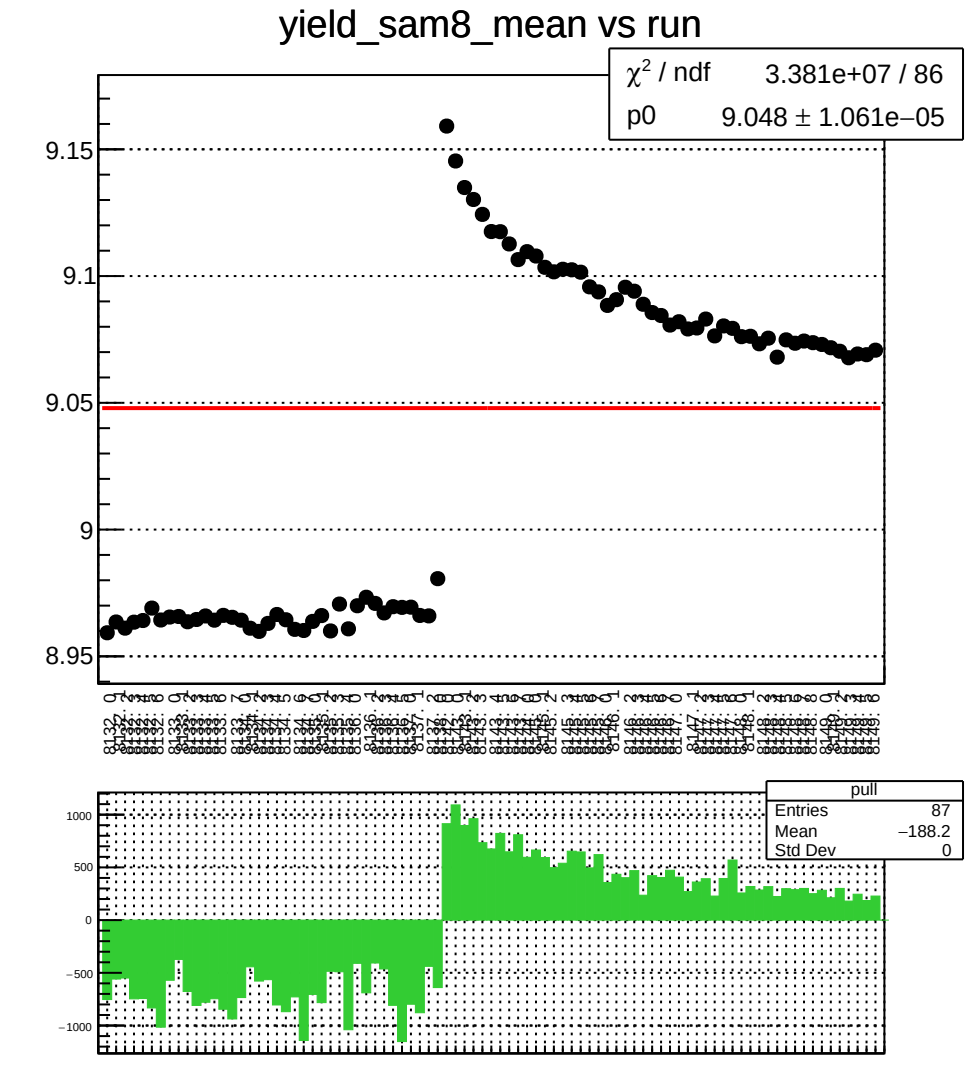

yield_sam6_mean vs run
χ² / ndf 3.218e+06 / 86
p0 9.623 ± 3.649e−05
9.75
9.7
9.65
9.6
9.55
9.5
pull
Entries 87
Mean −726.7
Std Dev 0
300
200
100
0
−100
−200
−300
−400
pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

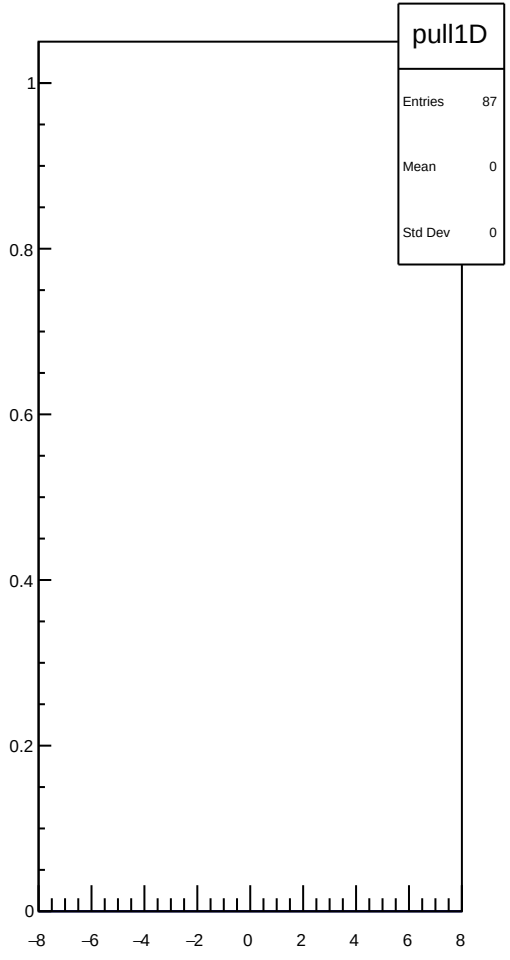

yield_sam6_rms vs run
χ² / ndf 5.599e+04 / 86
p0 0.03327 ± 2.58e−05
0.08
0.07
0.06
0.05
0.04
0.03

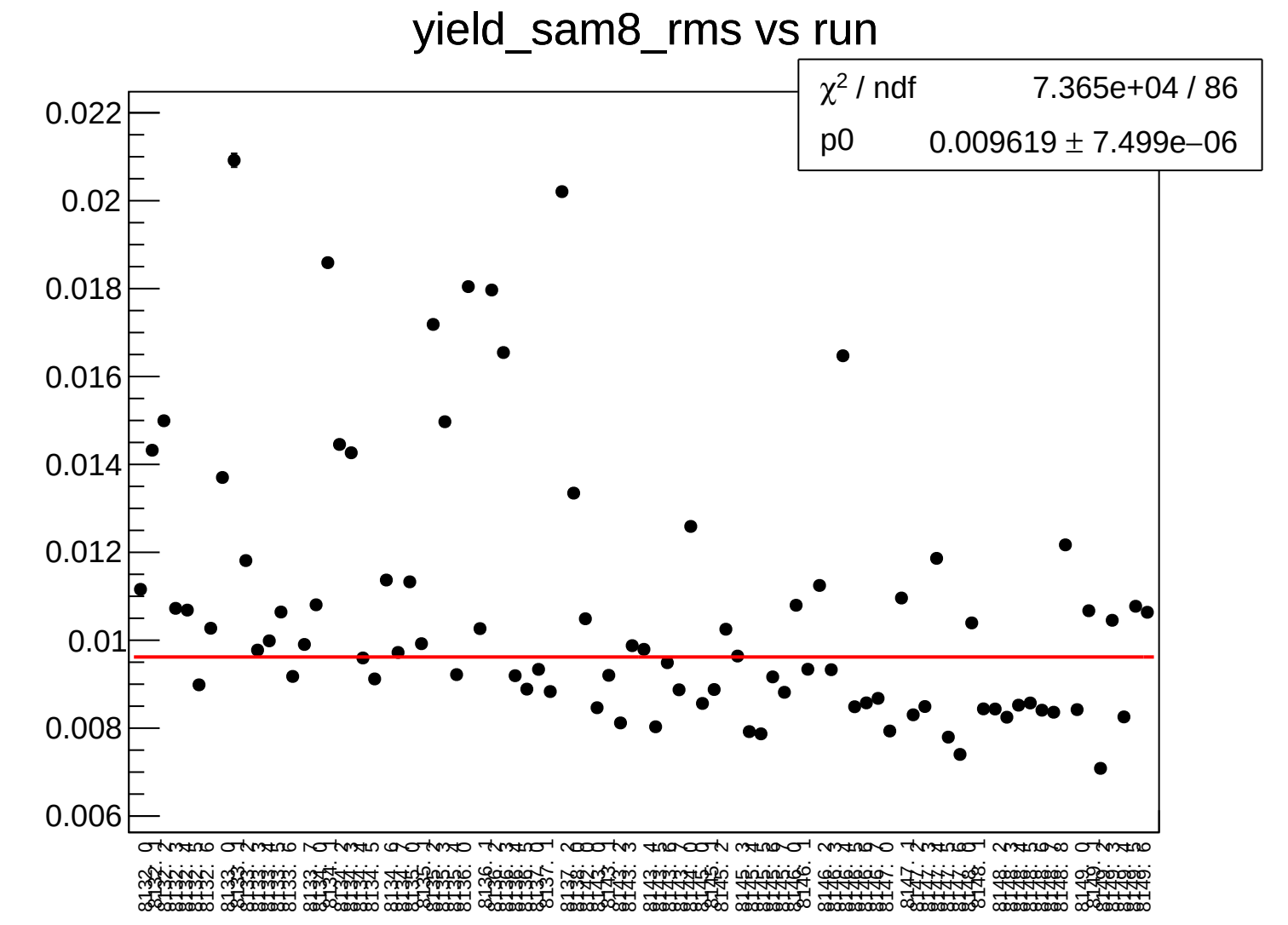

yield_sam7_mean vs run
χ² / ndf 5.892e+06 / 86
p0 2.421± 5.546e−06
2.44
2.43
2.42
2.41
2.4
pull
Entries 87
Mean −185.7
Std Dev 0
400
200
0
−200
−400

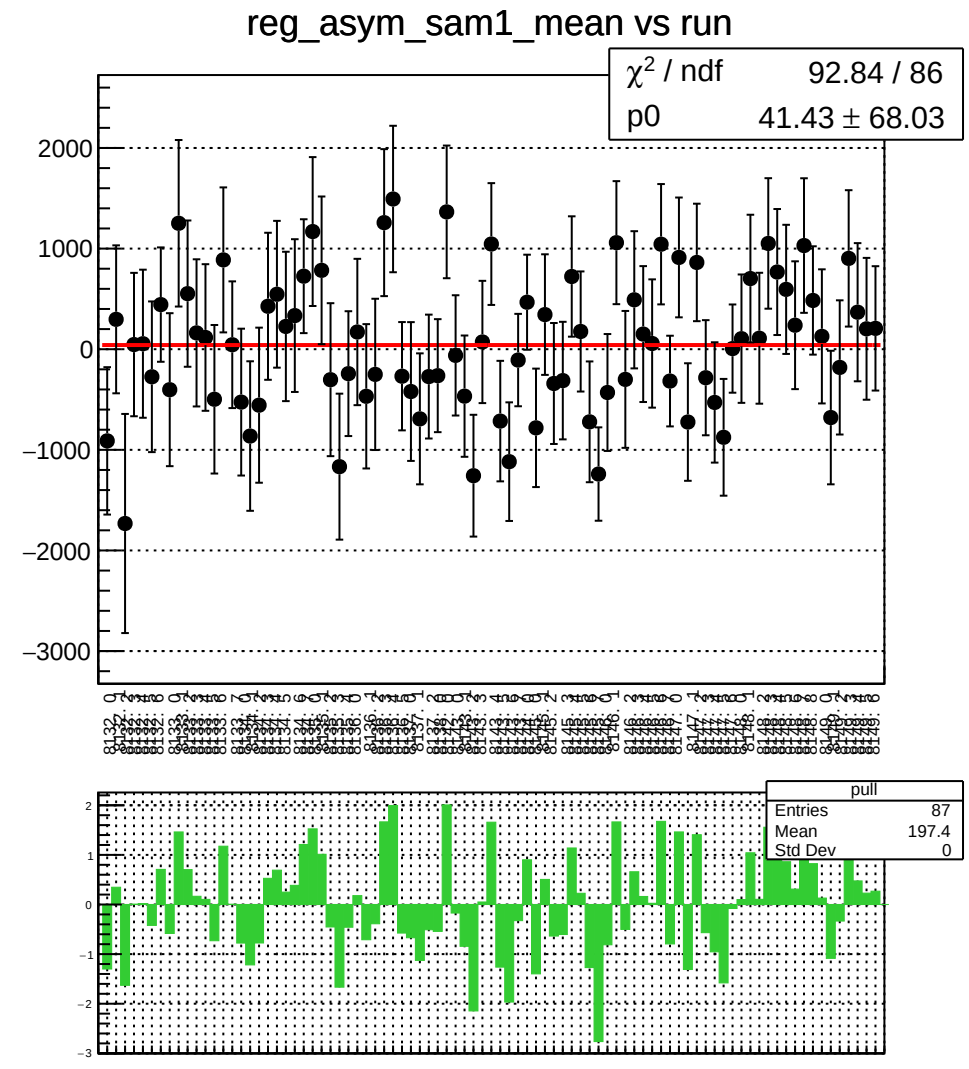

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

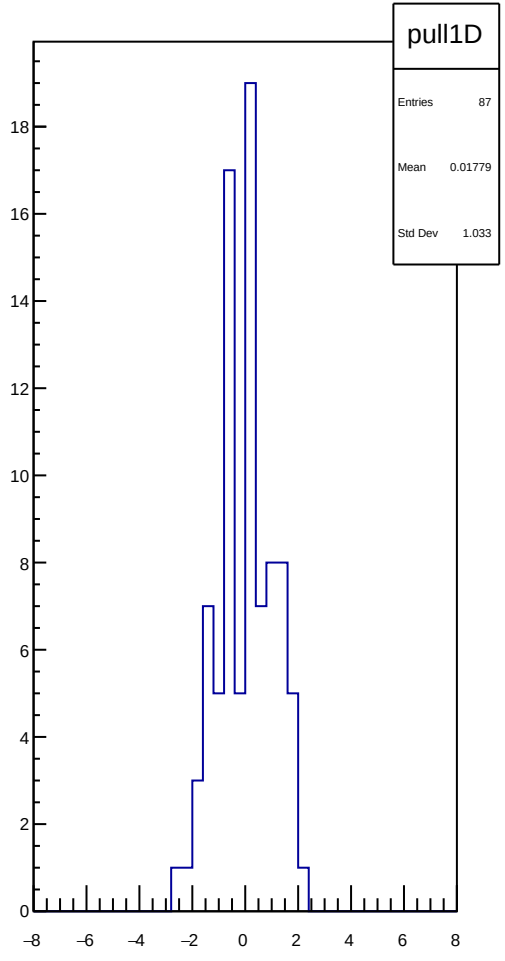

yield_sam7_rms vs run
χ² / ndf 7.52e+04 / 86
p0 0.005028 ± 3.922e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004

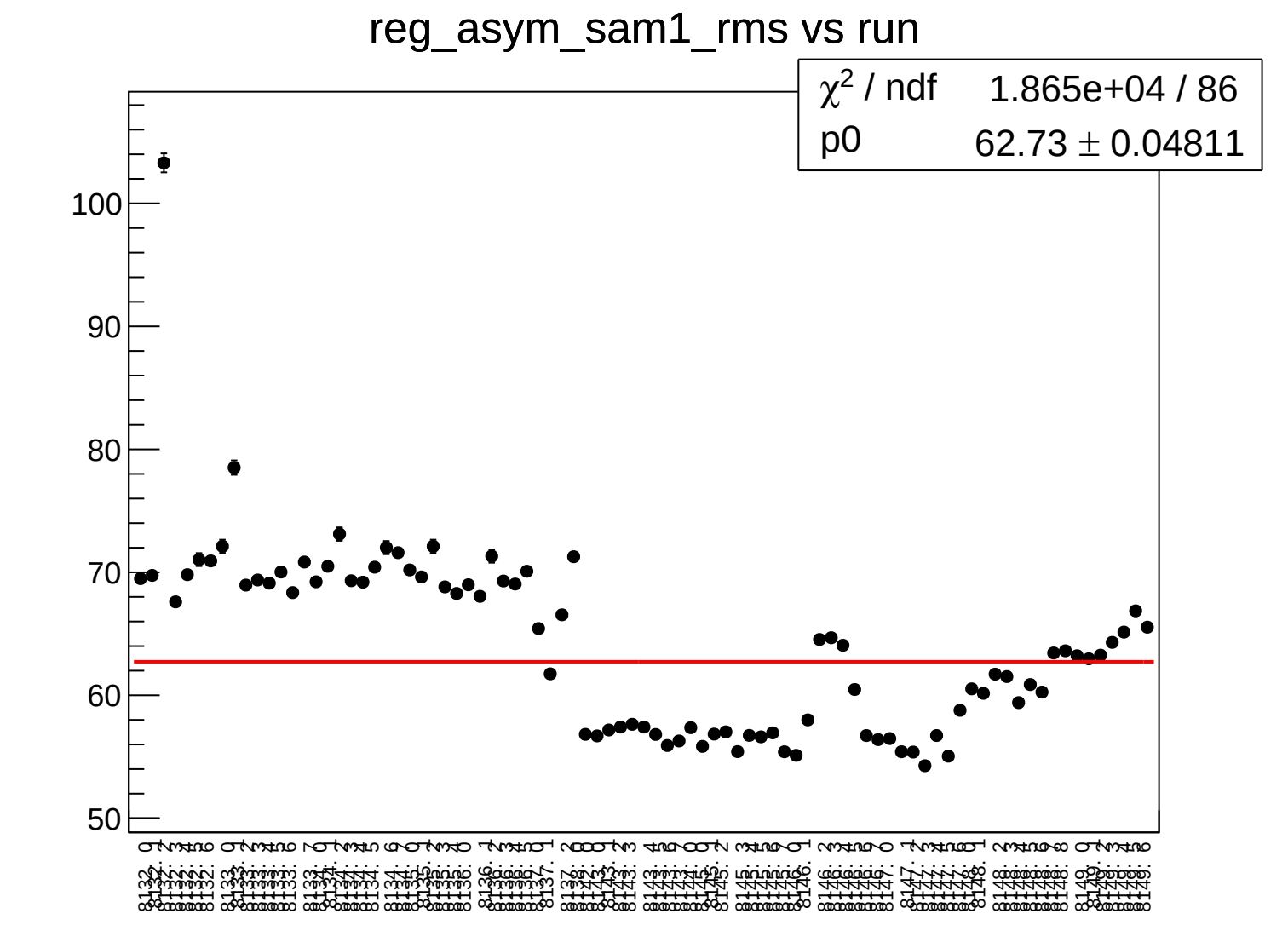

yield_sam8_mean vs run
χ² / ndf 3.381e+07 / 86
p0 9.048 ± 1.061e−05
9.15
9.1
9.05
9
8.95
pull
Entries 87
Mean −188.2
Std Dev 0
1000
500
0
−500
−1000

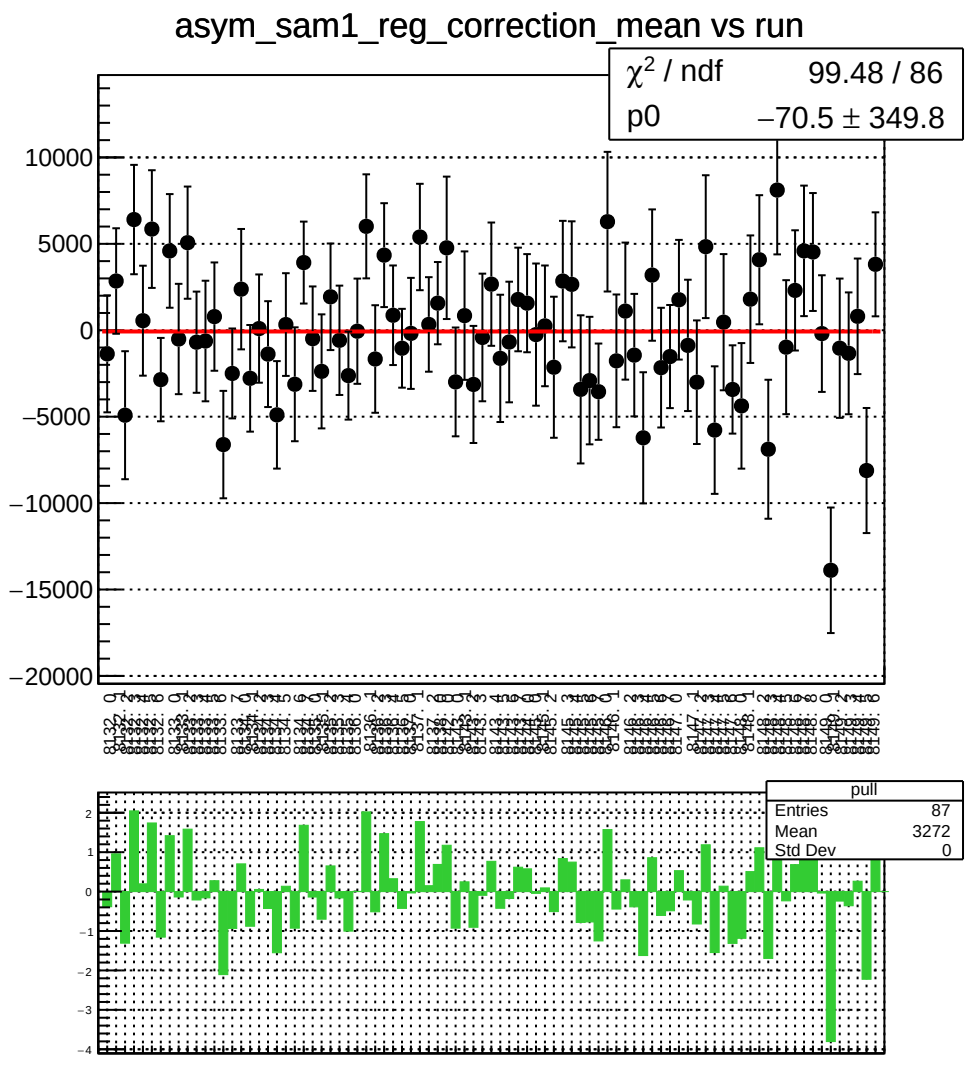

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

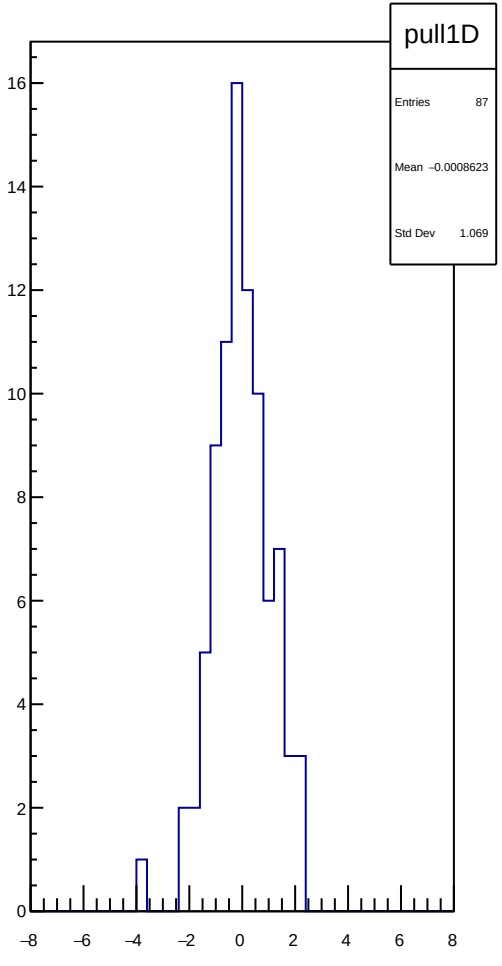

yield_sam8_rms vs run
χ² / ndf 7.365e+04 / 86
p0 0.009619 ± 7.499e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

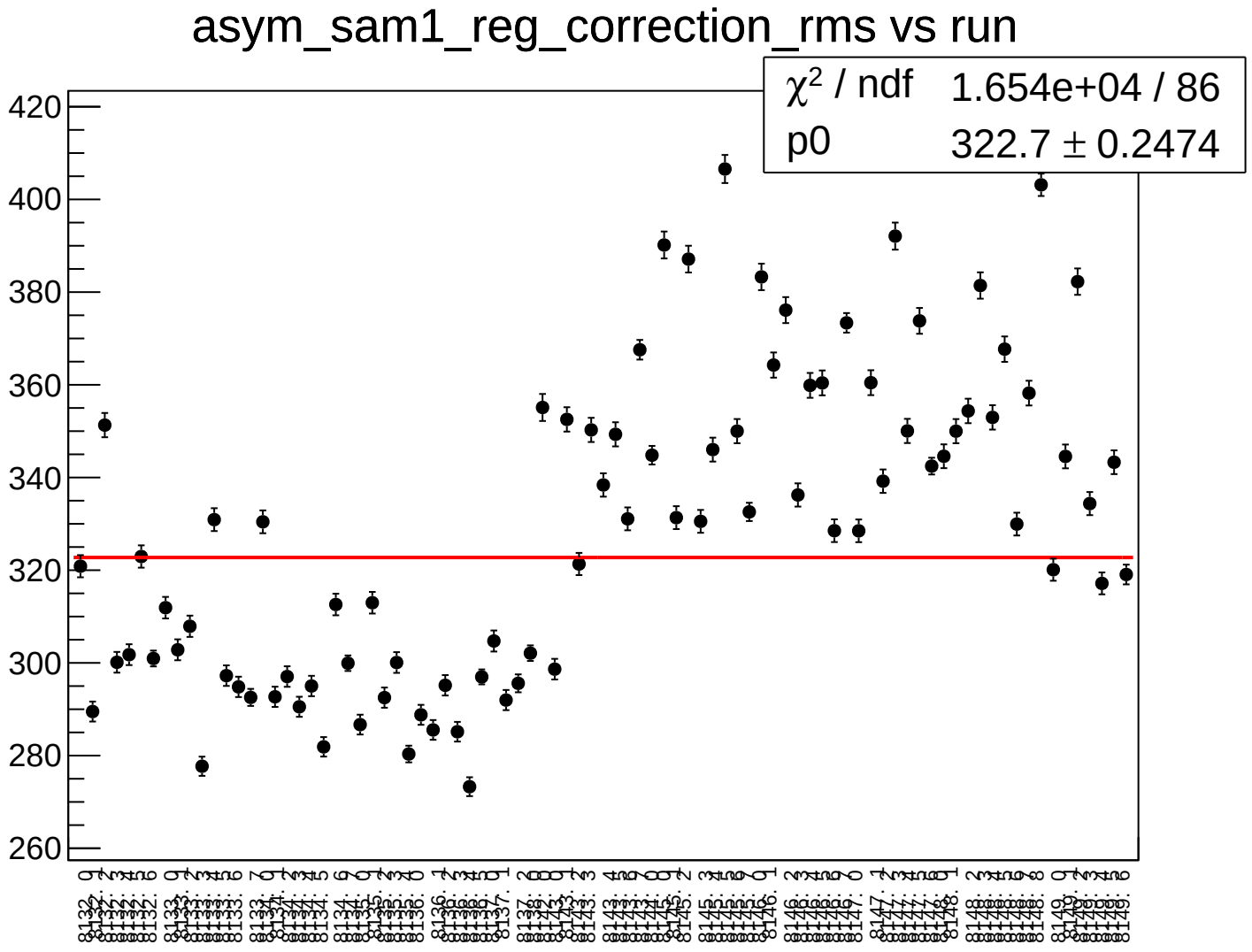

reg_asym_sam1_mean vs run
χ² / ndf 92.84 / 86
p0 41.43 ± 68.03
2000
1000
0
−1000
−2000
−3000
pull
Entries 87
Mean 197.4
Std Dev 0
2
1
0
−1
−2
−3

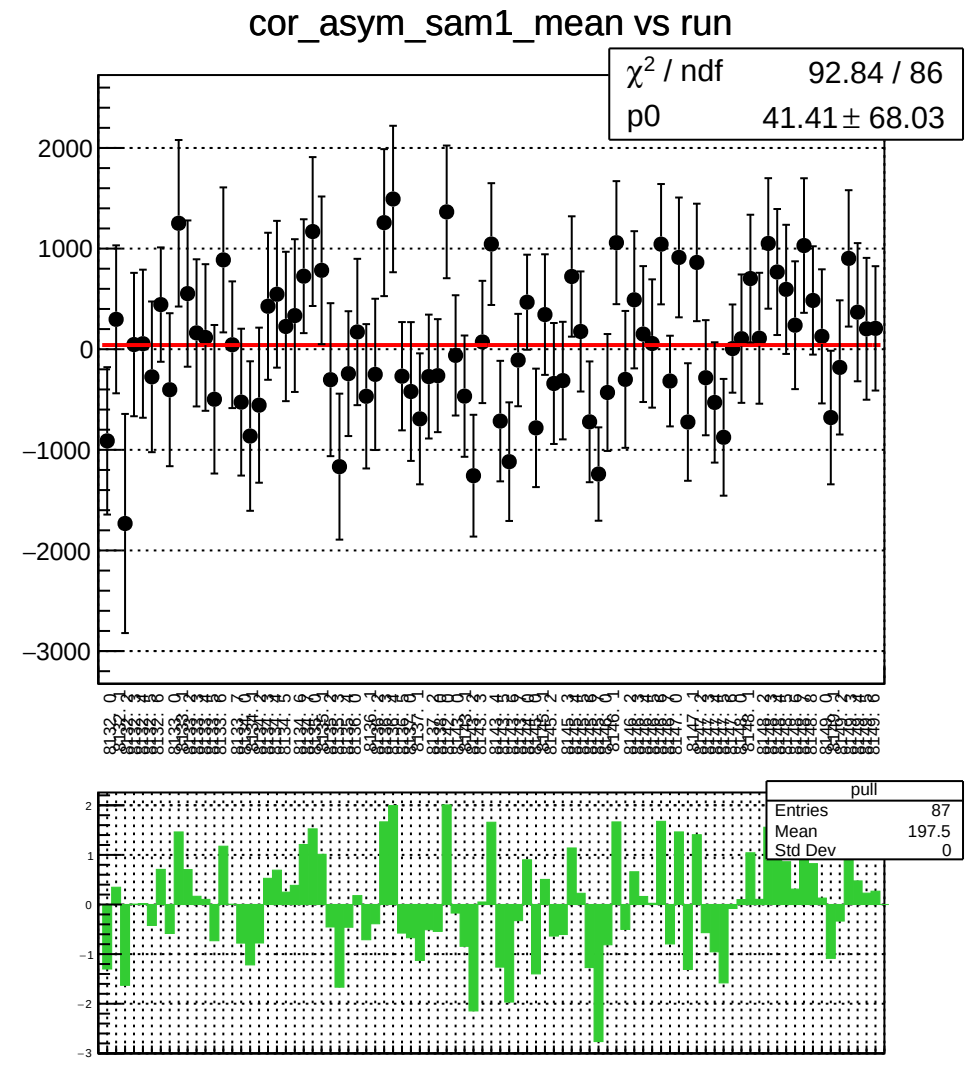

pull1D
Entries 87
Mean 0.01779
Std Dev 1.033
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

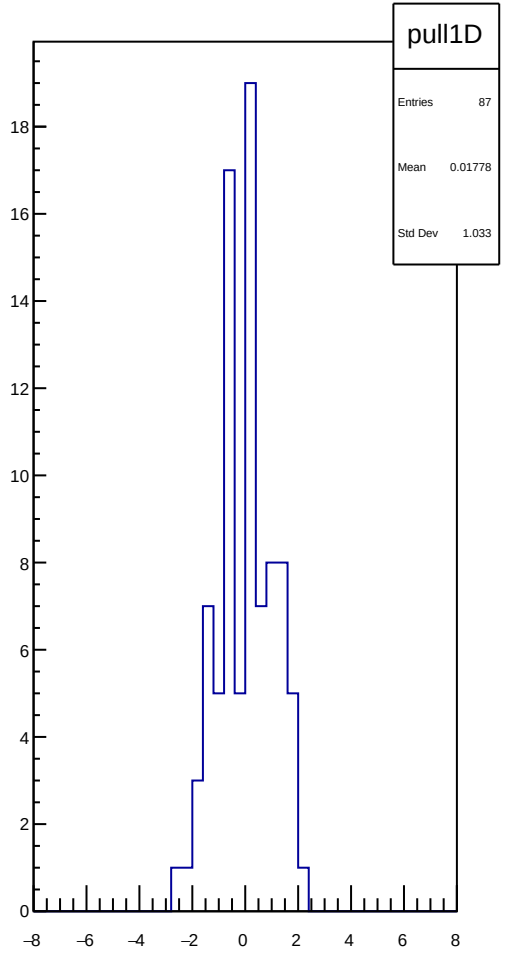

reg_asym_sam1_rms vs run
χ^2 / ndf 1.865e+04 / 86
p0 62.73 ± 0.04811
100
90
80
70
60
50

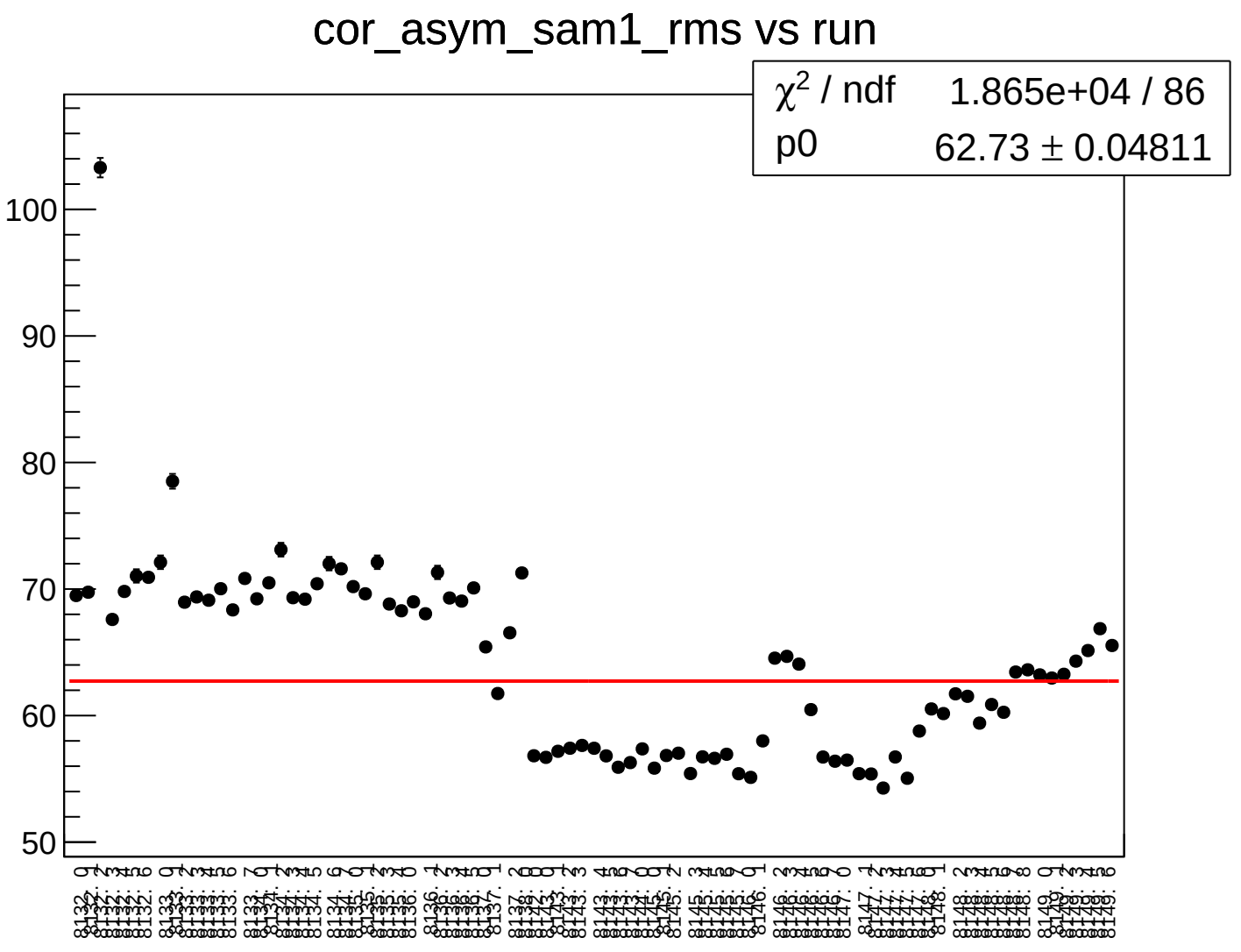

asym_sam1_reg_correction_mean vs run
χ² / ndf 99.48 / 86
p0 −70.5 ± 349.8
pull
Entries 87
Mean 3272
Std Dev 0

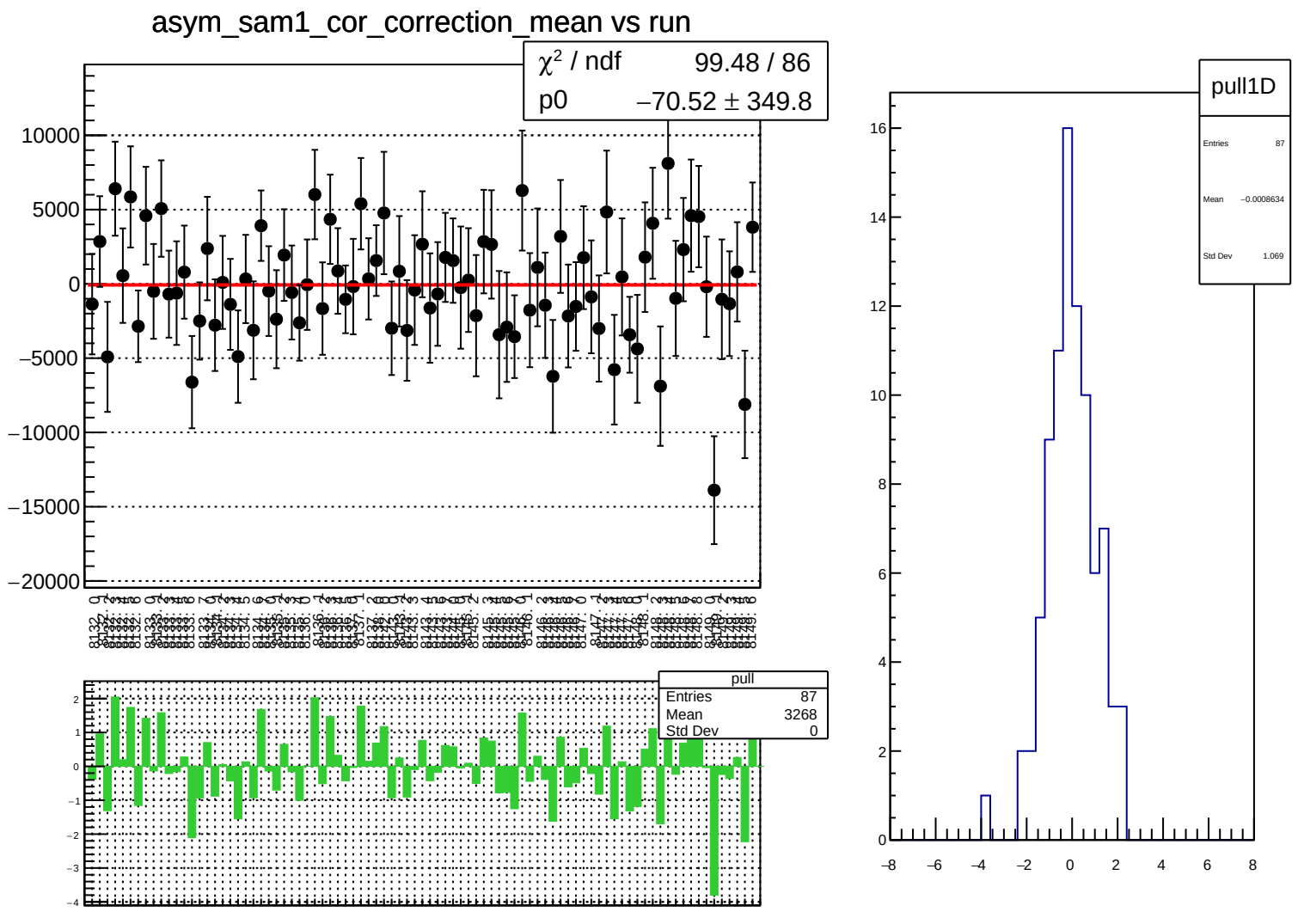

pull1D
Entries 87
Mean −0.0008623
Std Dev 1.069

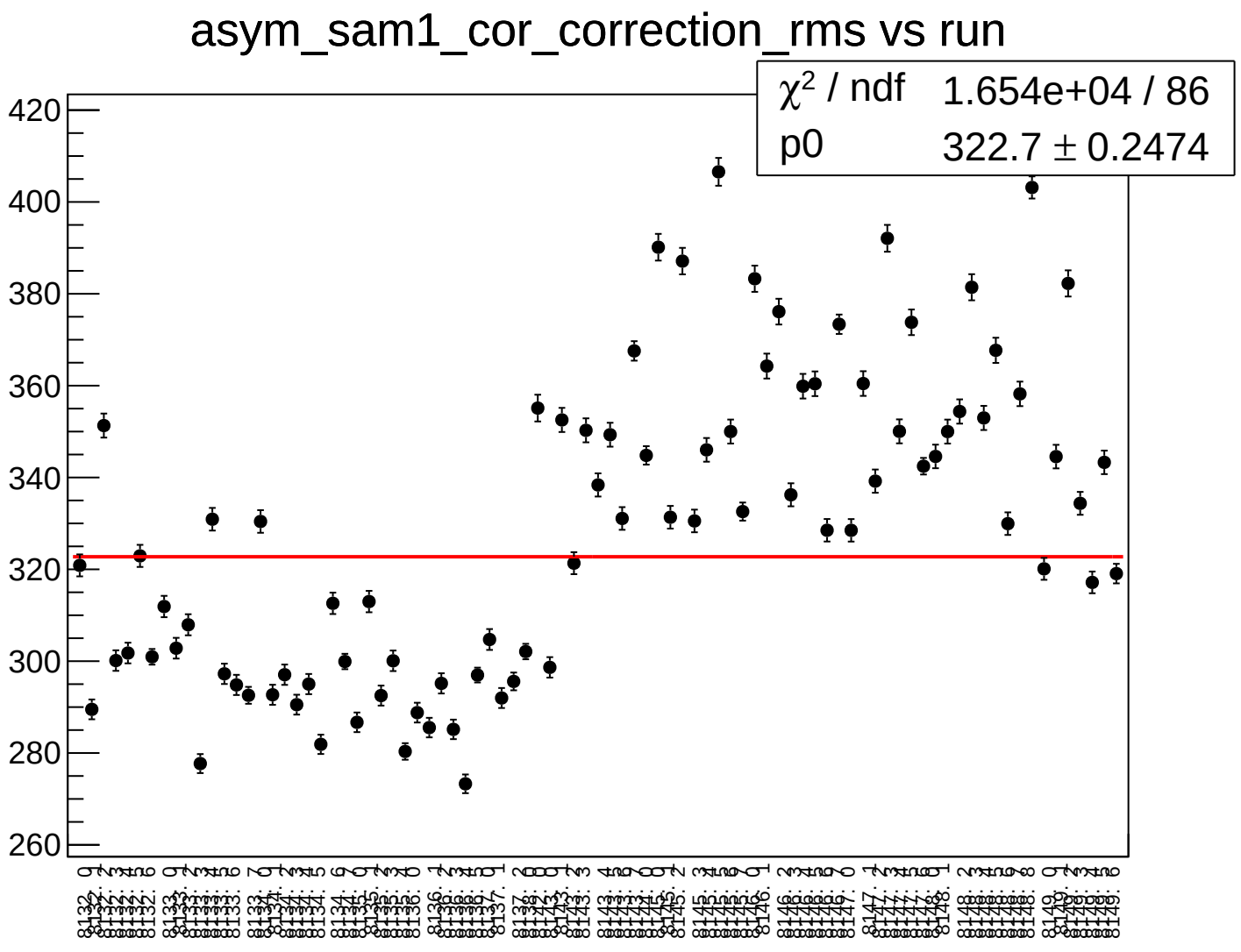

asym_sam1_reg_correction_rms vs run
χ² / ndf 1.654e+04 / 86
p0 322.7 ± 0.2474
420
400
380
360
340
320
300
280
260

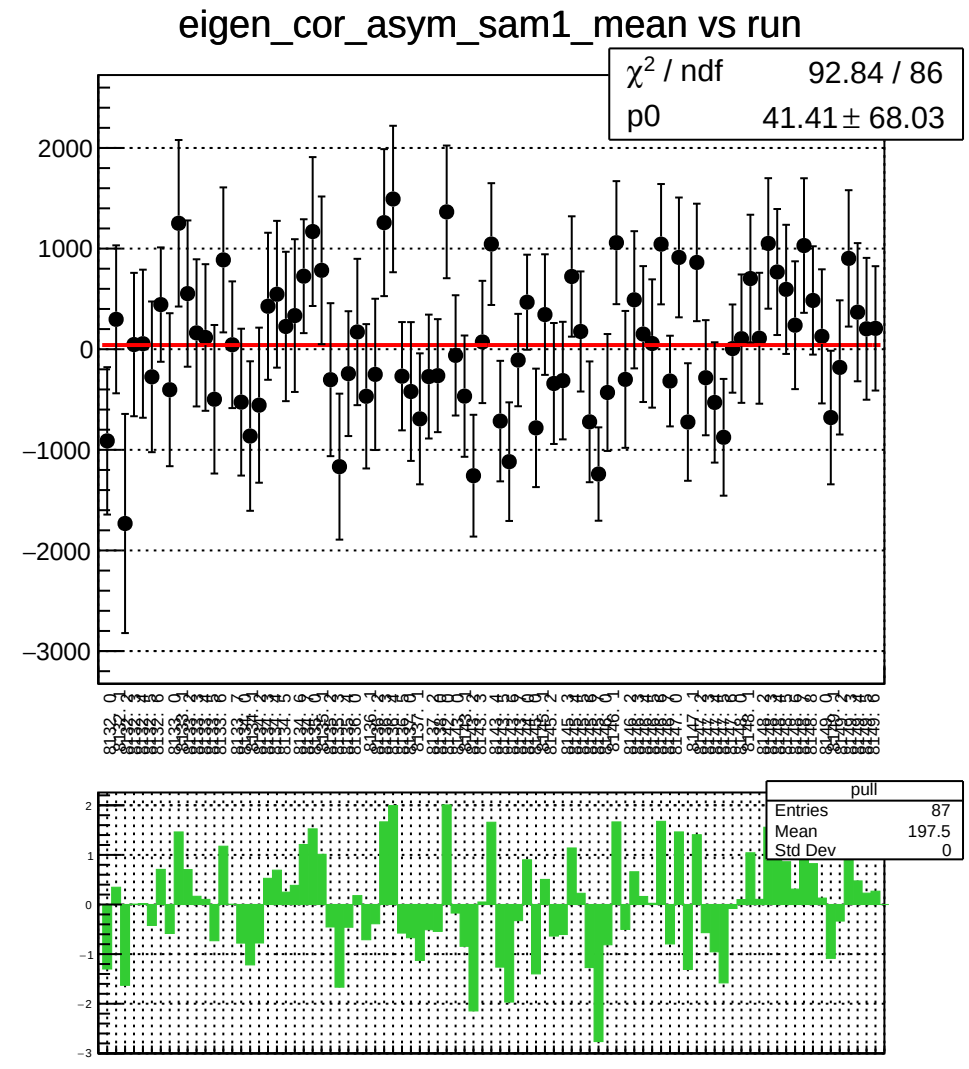

cor_asym_sam1_mean vs run
χ² / ndf 92.84 / 86
p0 41.41 ± 68.03
2000
1000
0
−1000
−2000
−3000
pull
Entries 87
Mean 197.5
Std Dev 0
2
1
0
−1
−2
−3

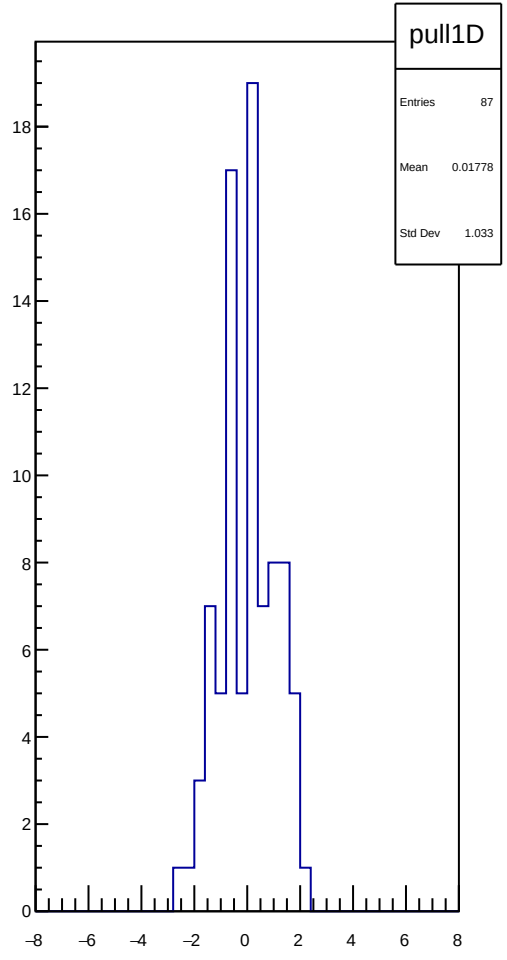

pull1D
Entries 87
Mean 0.01778
Std Dev 1.033
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

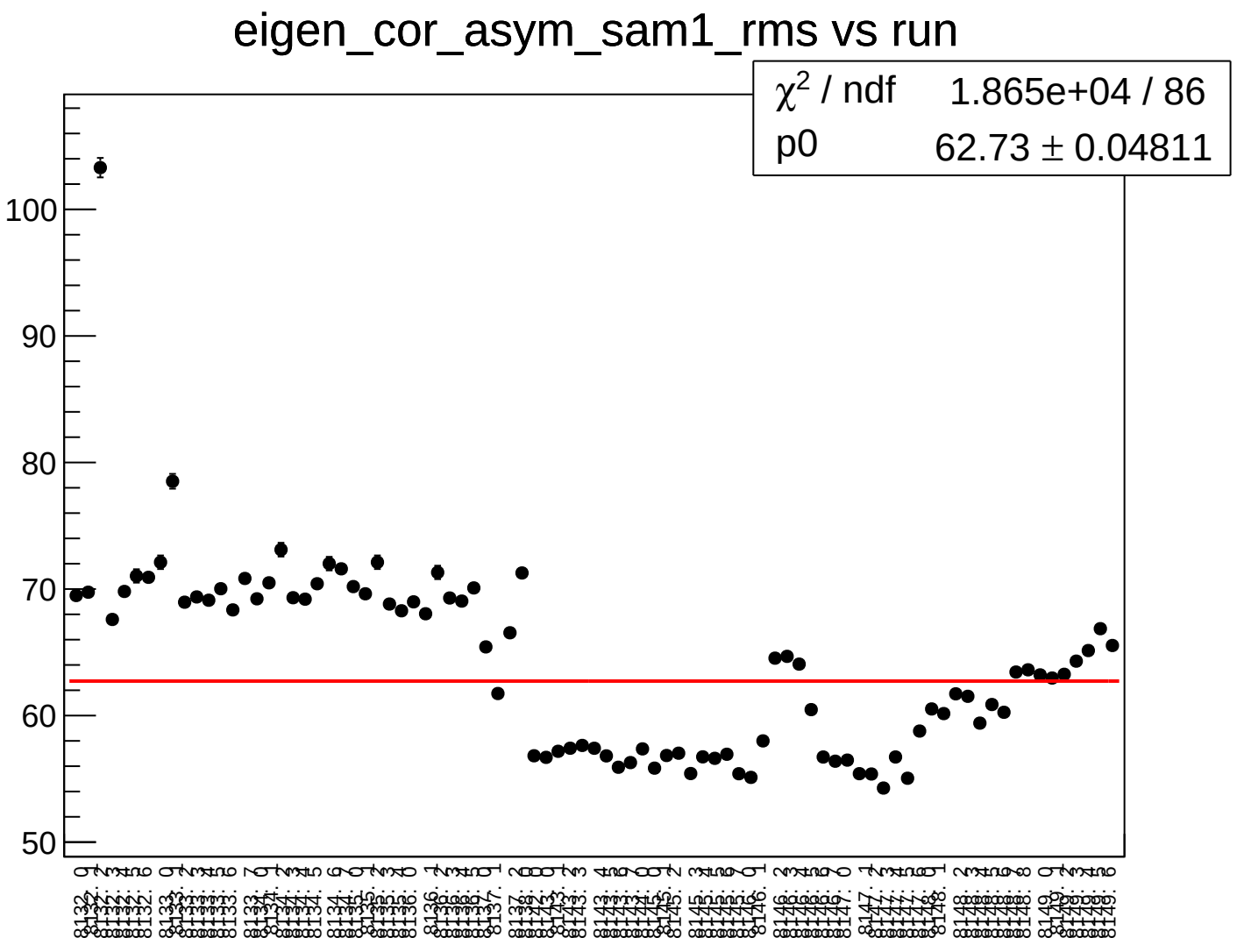

cor_asym_sam1_rms vs run
χ^2 / ndf 1.865e+04 / 86
p0 62.73 ± 0.04811
100
90
80
70
60
50

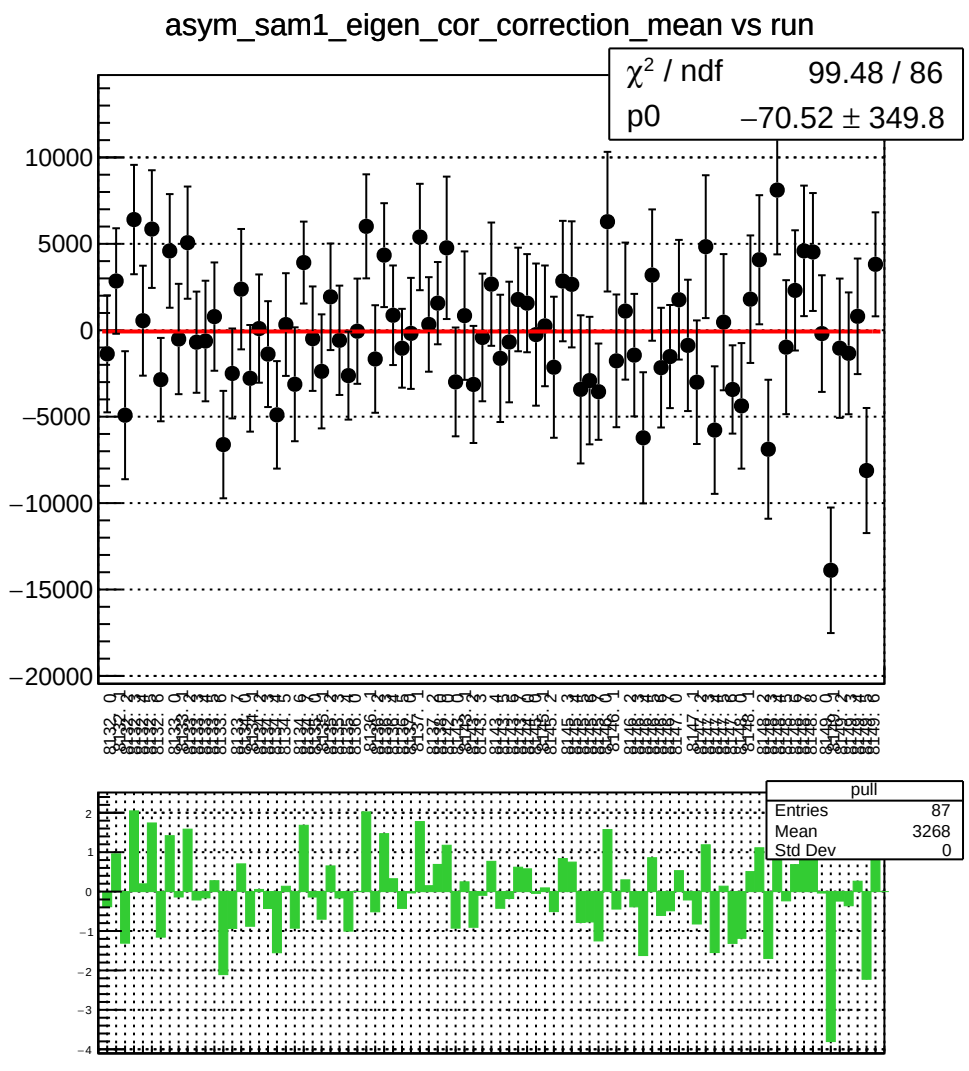

asym_sam1_cor_correction_mean vs run
χ² / ndf 99.48 / 86
p0 −70.52 ± 349.8
pull
Entries 87
Mean 3268
Std Dev 0
pull1D
Entries 87
Mean −0.0008634
Std Dev 1.069

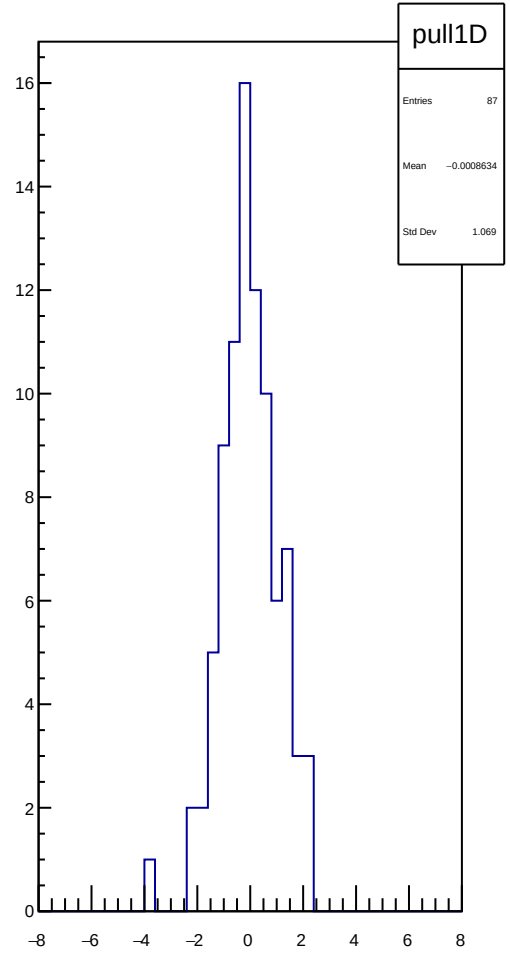

asym_sam1_cor_correction_rms vs run
χ² / ndf 1.654e+04 / 86
p0 322.7 ± 0.2474
420
400
380
360
340
320
300
280
260

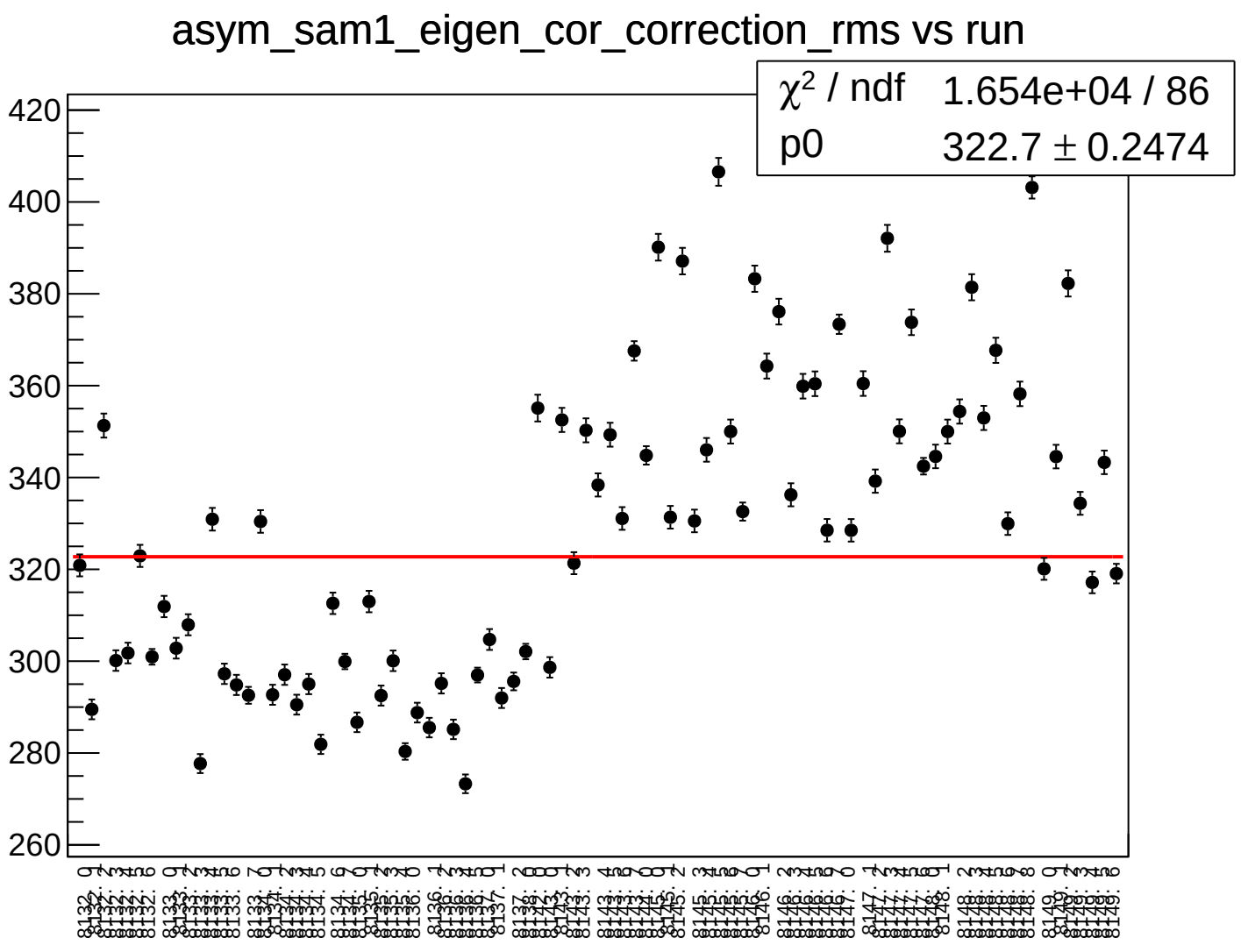

eigen_cor_asym_sam1_mean vs run
χ² / ndf 92.84 / 86
p0 41.41 ± 68.03
2000
1000
0
−1000
−2000
−3000
pull
Entries 87
Mean 197.5
Std Dev 0
2
1
0
−1
−2
−3

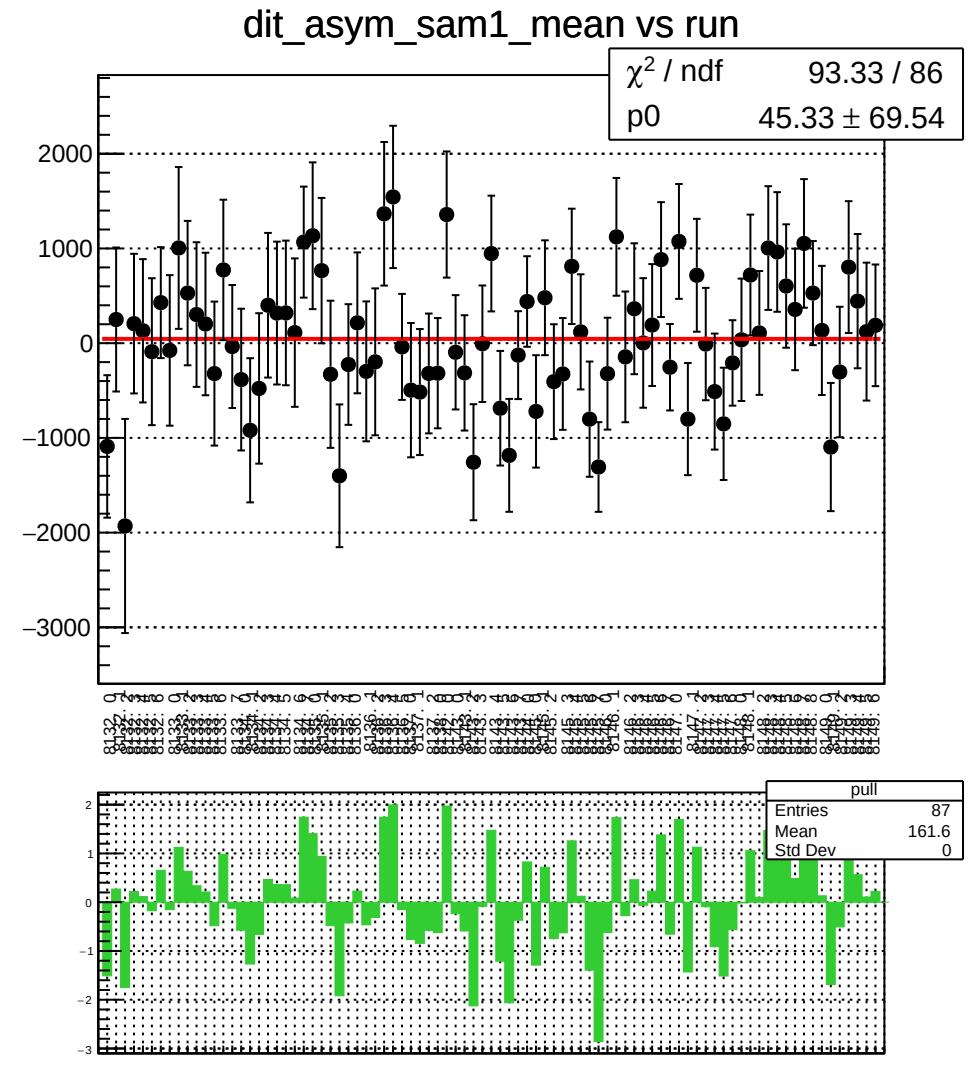

pull1D
Entries 87
Mean 0.01778
Std Dev 1.033
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

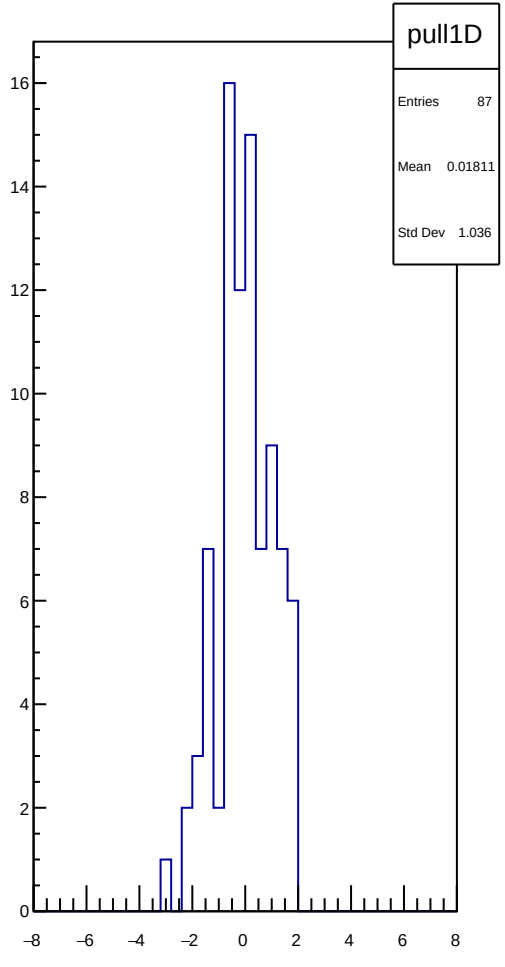

eigen_cor_asym_sam1_rms vs run
χ^2 / ndf 1.865e+04 / 86
p0 62.73 ± 0.04811
100
90
80
70
60
50


asym_sam1_eigen_cor_correction_mean vs run
χ² / ndf 99.48 / 86
p0 −70.52 ± 349.8
pull
Entries 87
Mean 3268
Std Dev 0

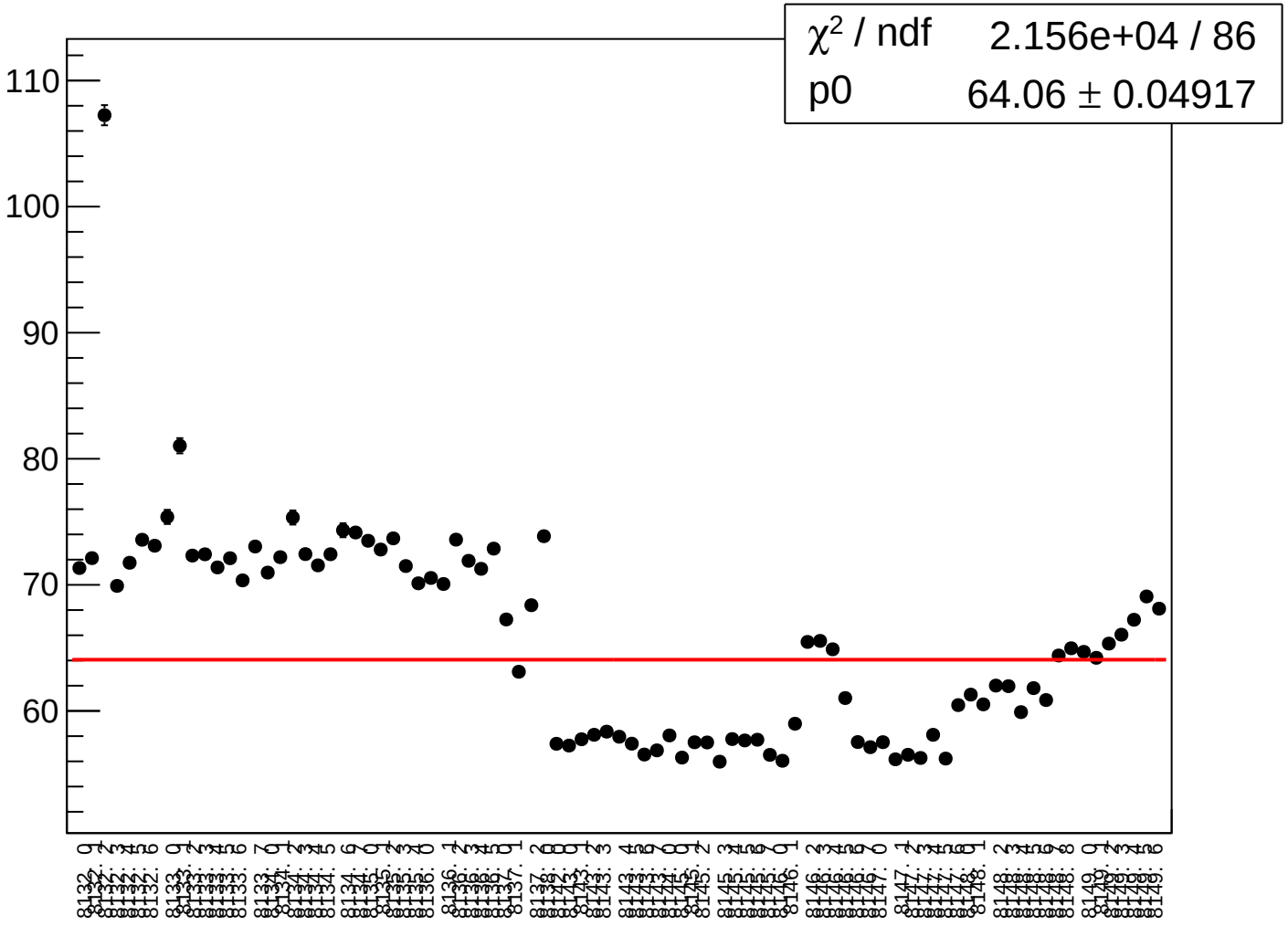

pull1D
Entries 87
Mean −0.0008634
Std Dev 1.069

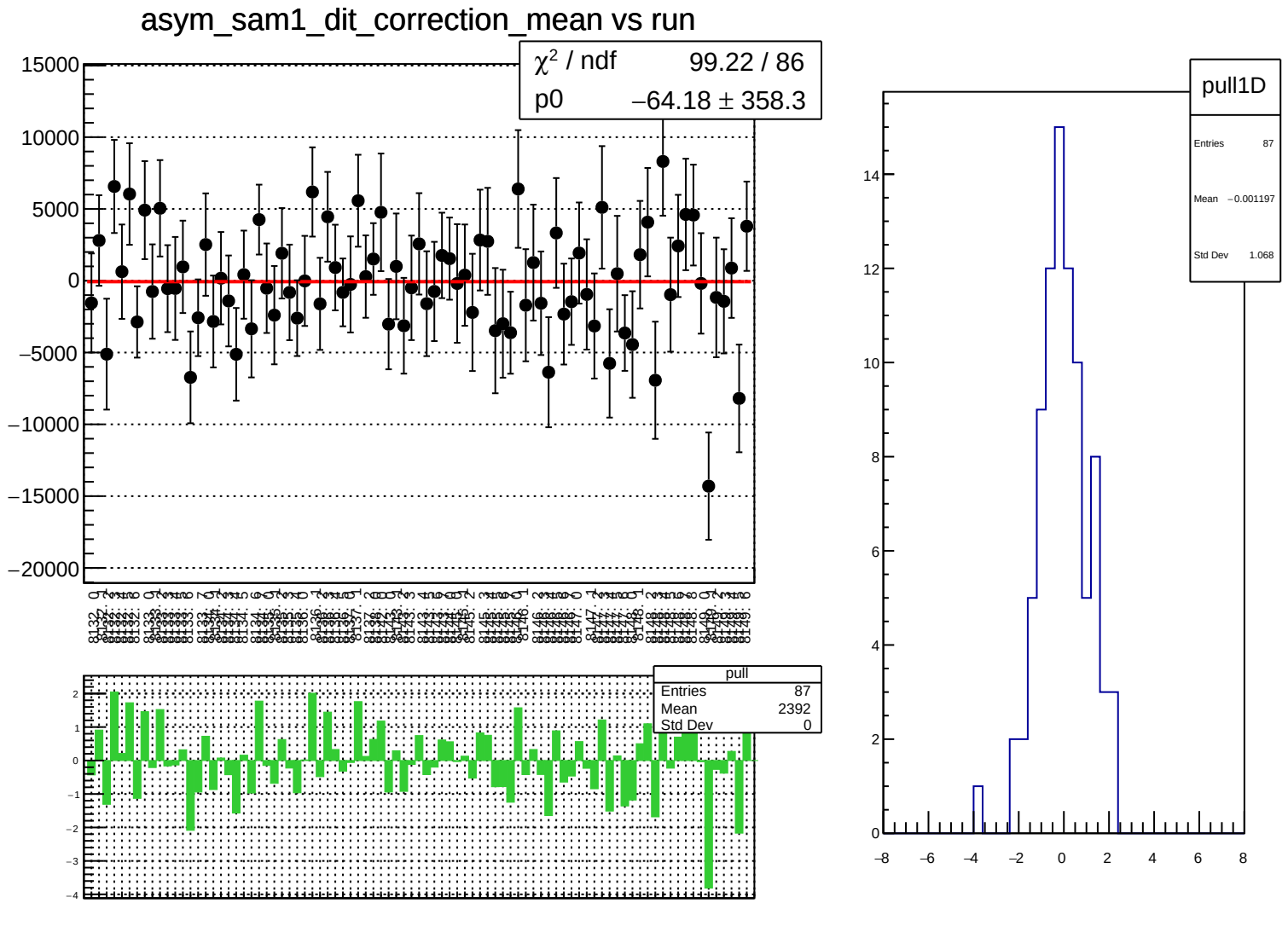

asym_sam1_eigen_cor_correction_rms vs run
χ² / ndf 1.654e+04 / 86
p0 322.7 ± 0.2474
420
400
380
360
340
320
300
280
260

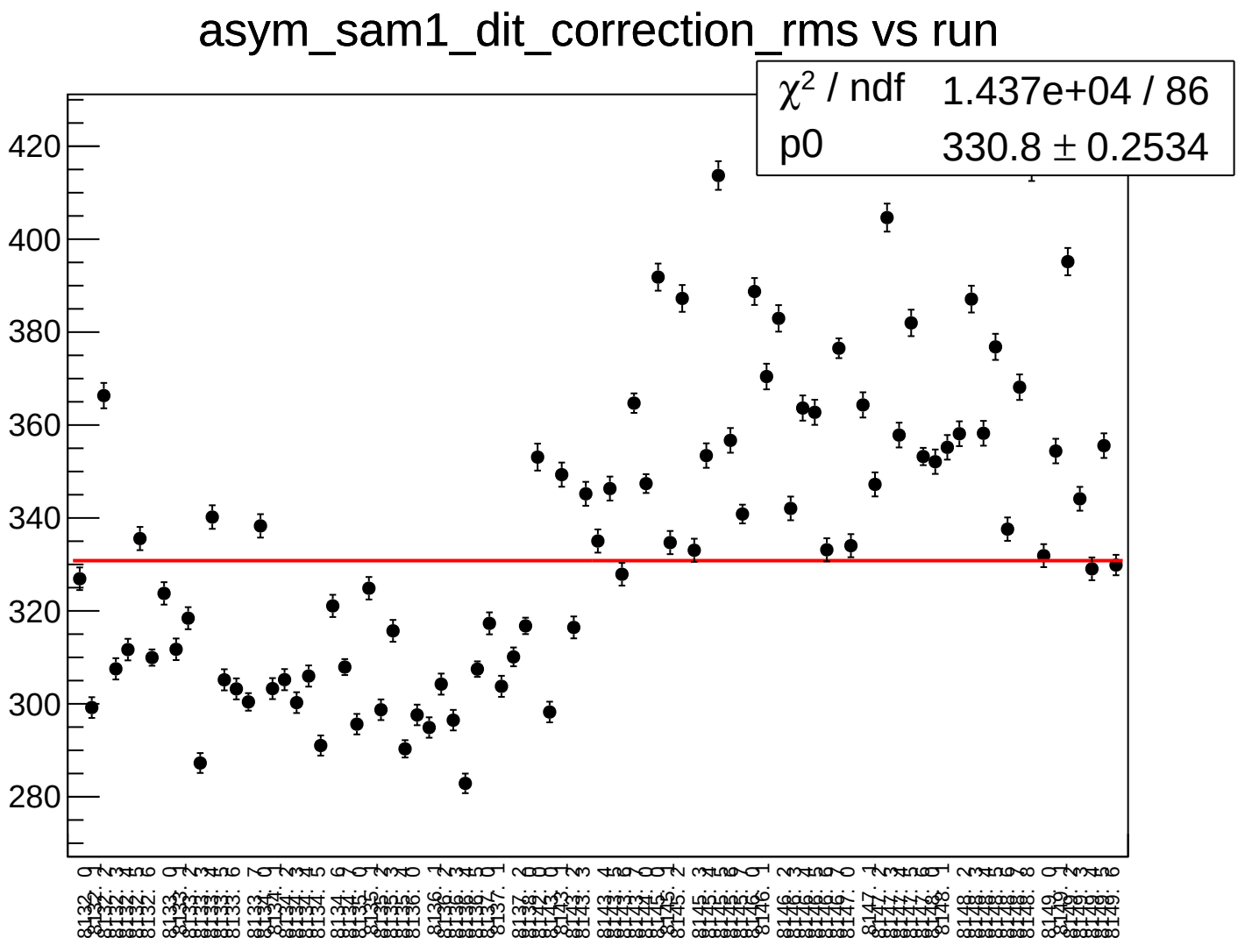

dit_asym_sam1_mean vs run
χ² / ndf 93.33 / 86
p0 45.33 ± 69.54
2000
1000
0
−1000
−2000
−3000
pull
Entries 87
Mean 161.6
Std Dev 0
2
1
0
−1
−2
−3

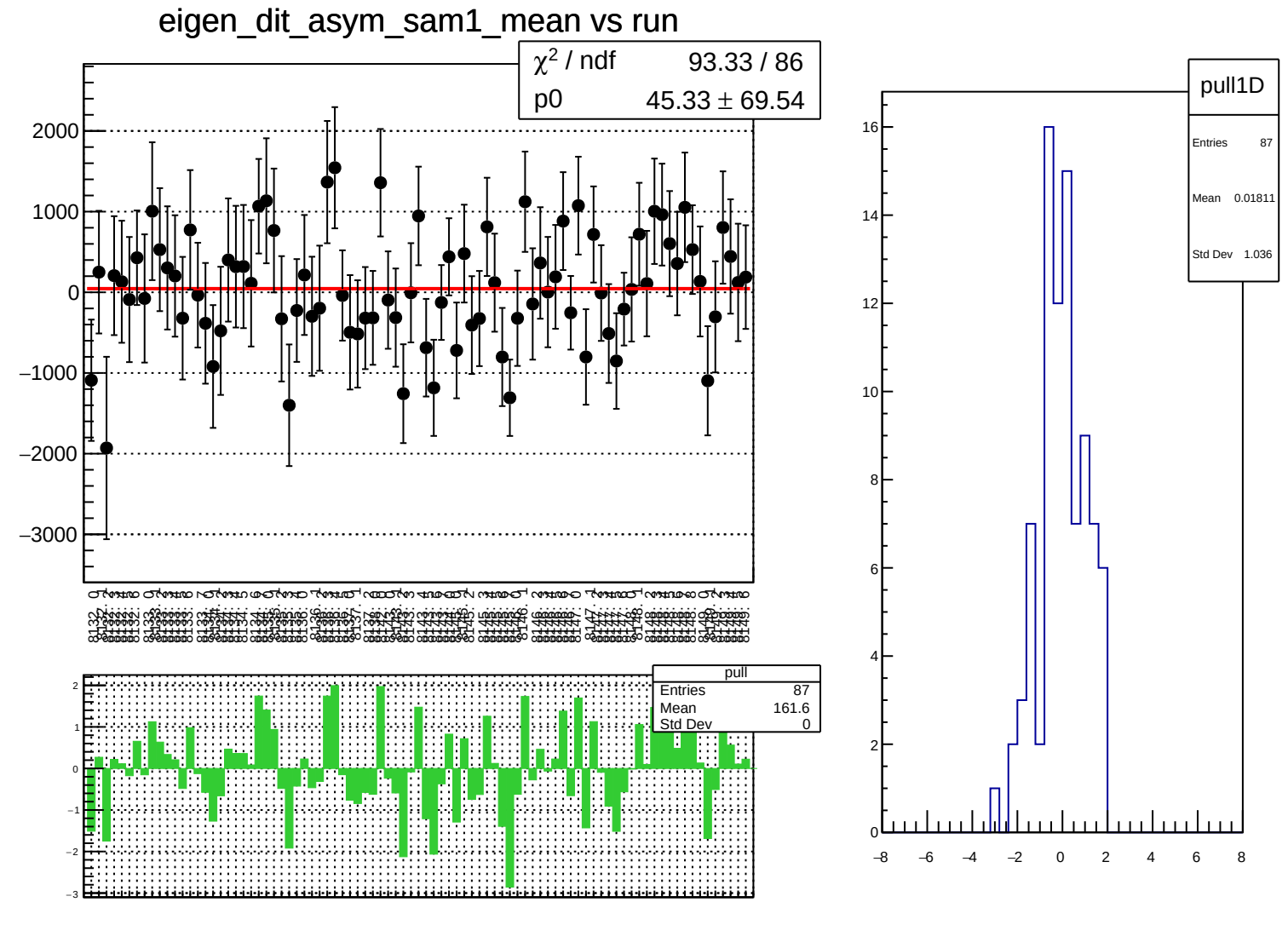

pull1D
Entries 87
Mean 0.01811
Std Dev 1.036
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

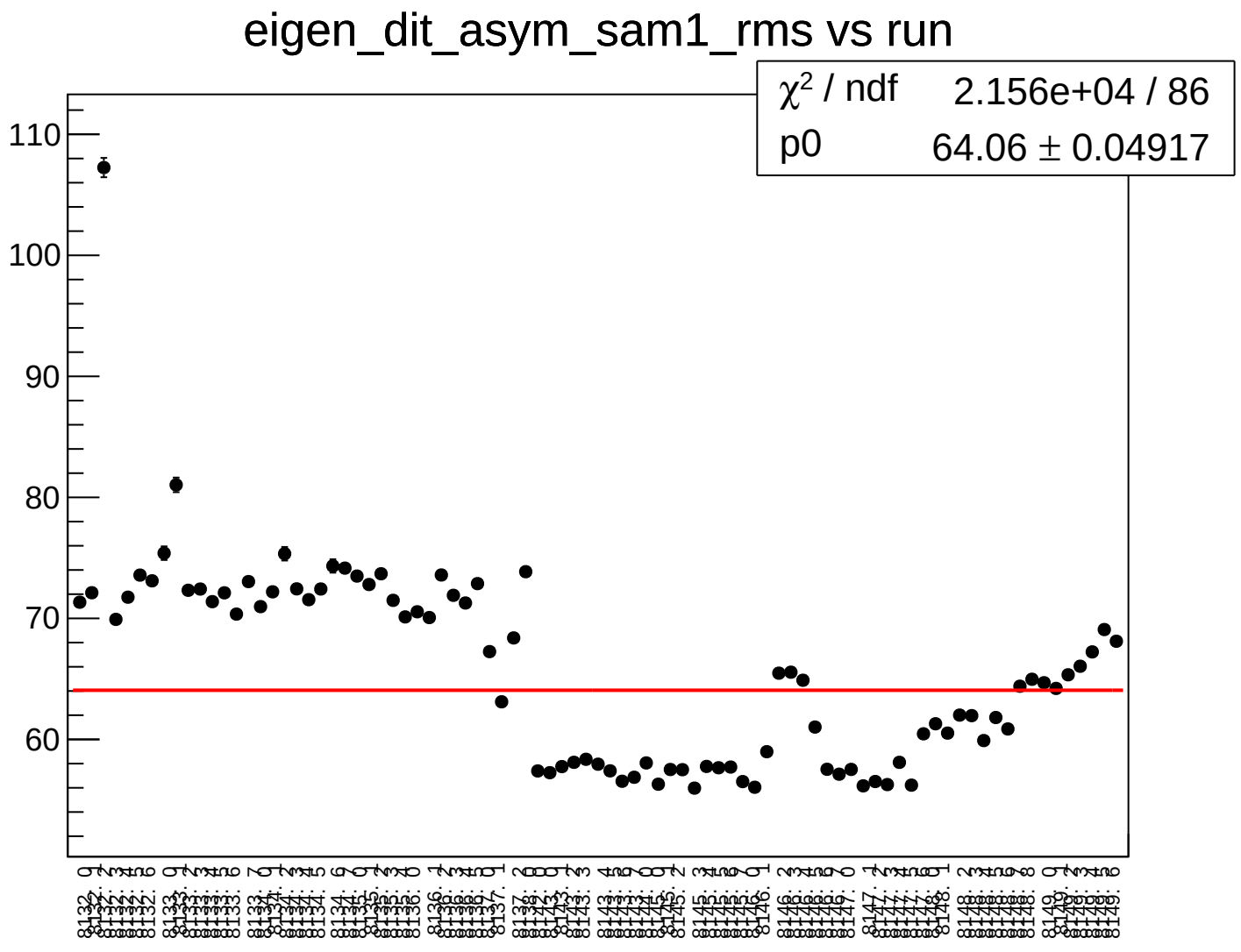
dit_asym_sam1_rms vs run

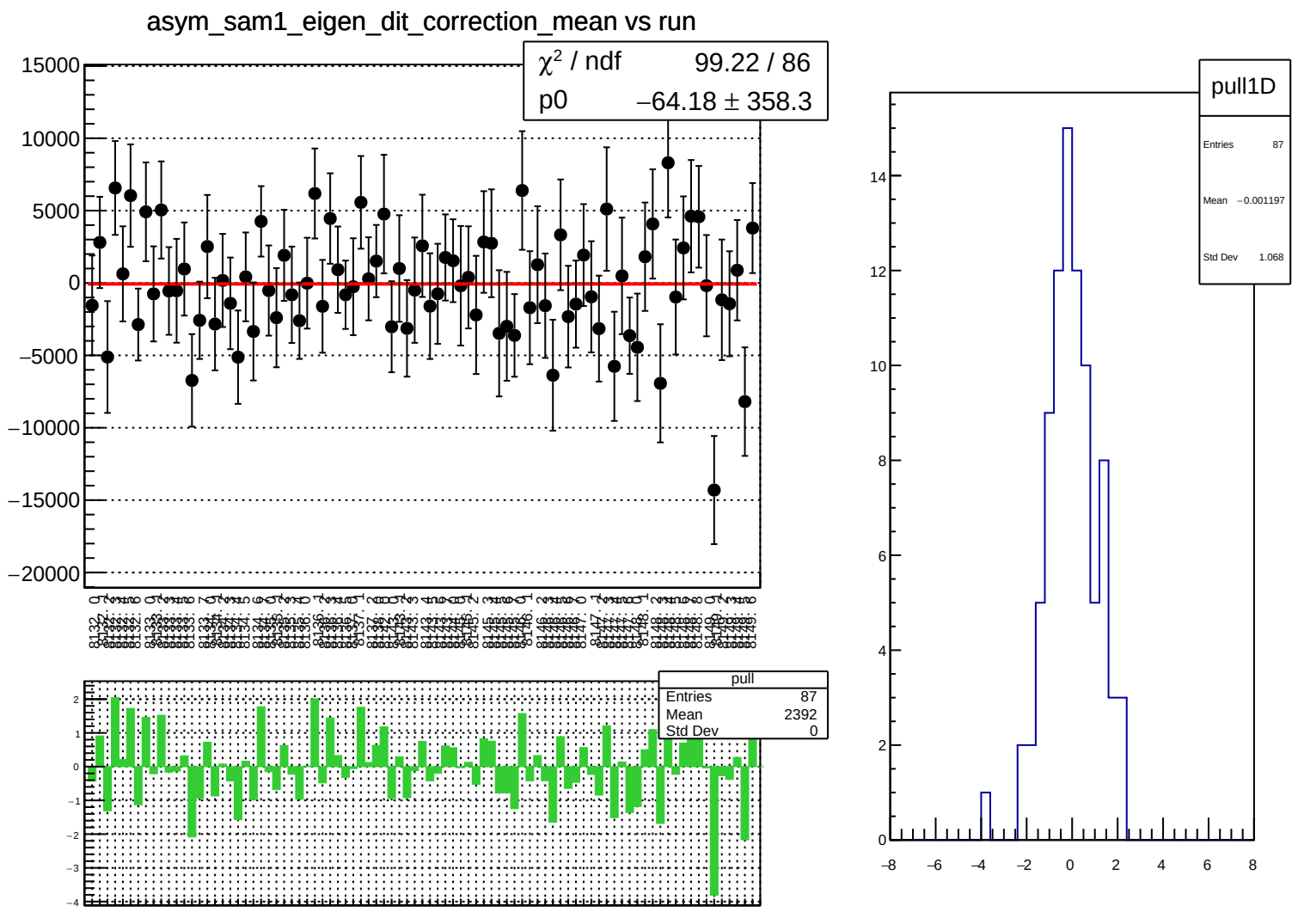


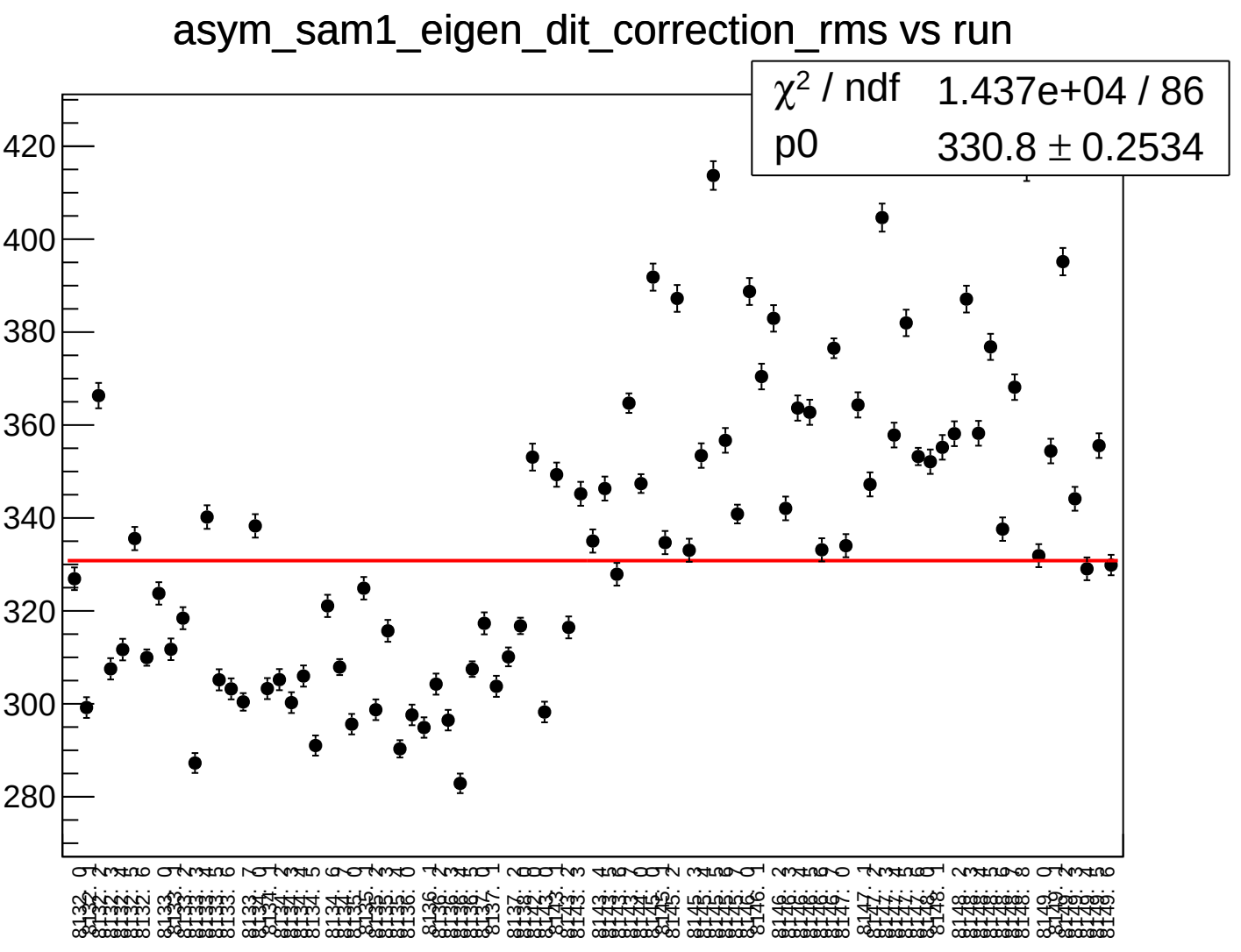

asym_sam1_dit_correction_mean vs run
χ² / ndf 99.22 / 86
p0 −64.18 ± 358.3
pull
Entries 87
Mean 2392
Std Dev 0
pull1D
Entries 87
Mean −0.001197
Std Dev 1.068

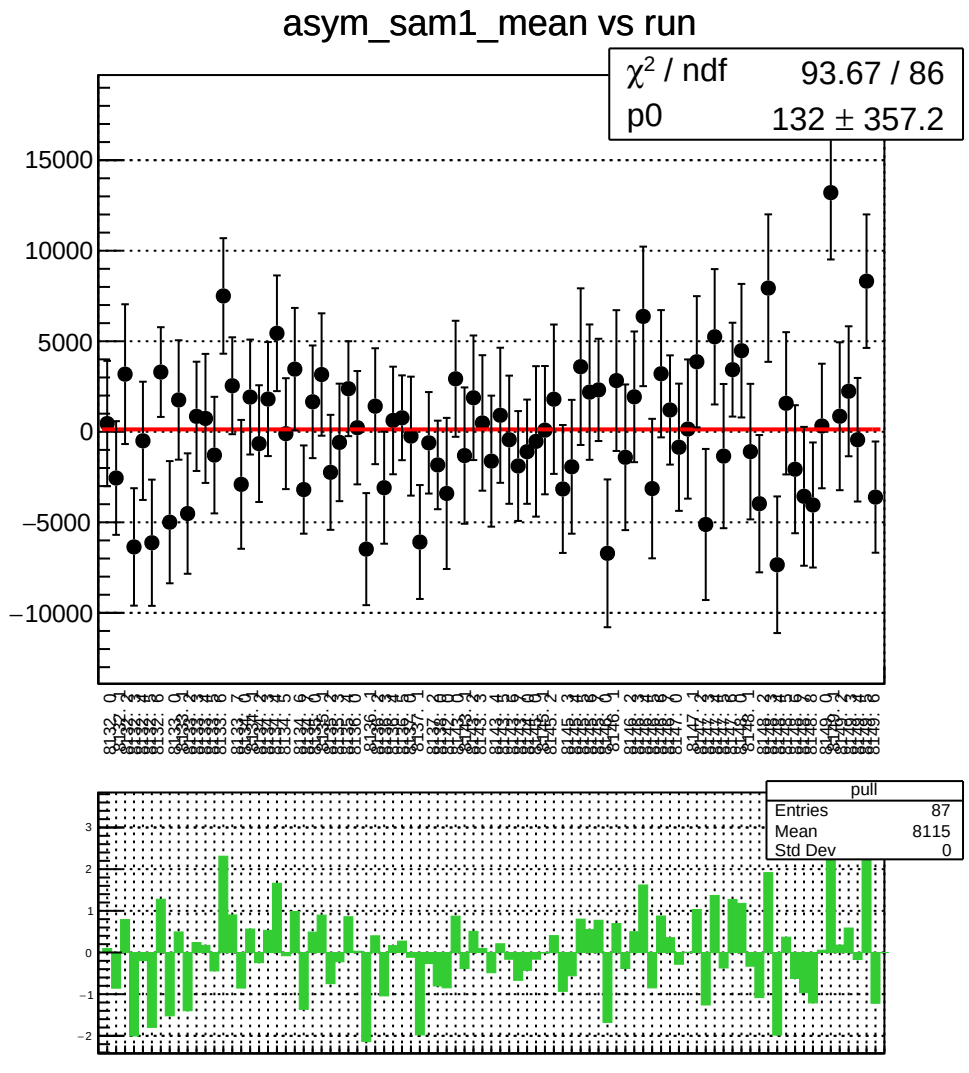

asym_sam1_dit_correction_rms vs run
χ² / ndf 1.437e+04 / 86
p0 330.8 ± 0.2534
420
400
380
360
340
320
300
280

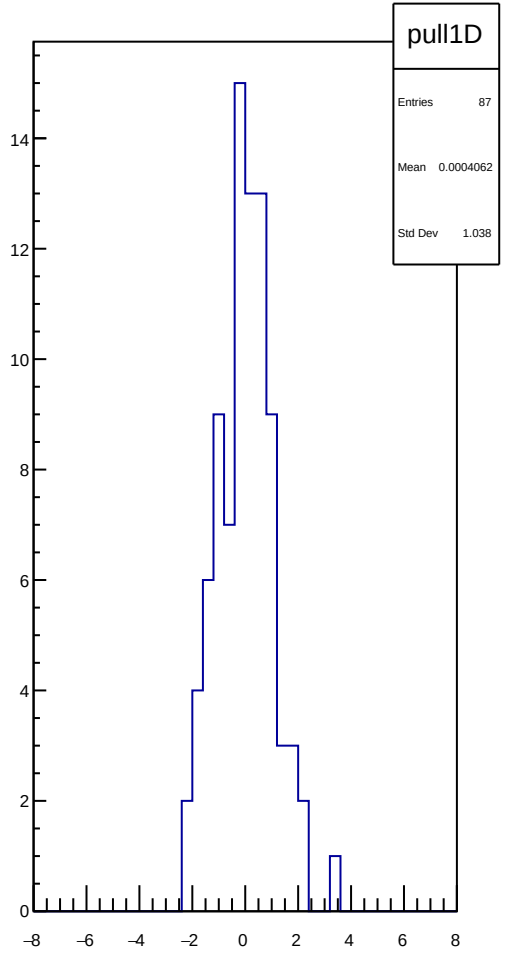

eigen_dit_asym_sam1_mean vs run
χ² / ndf 93.33 / 86
p0 45.33 ± 69.54
2000
1000
0
−1000
−2000
−3000
pull
Entries 87
Mean 161.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean 0.01811
Std Dev 1.036
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

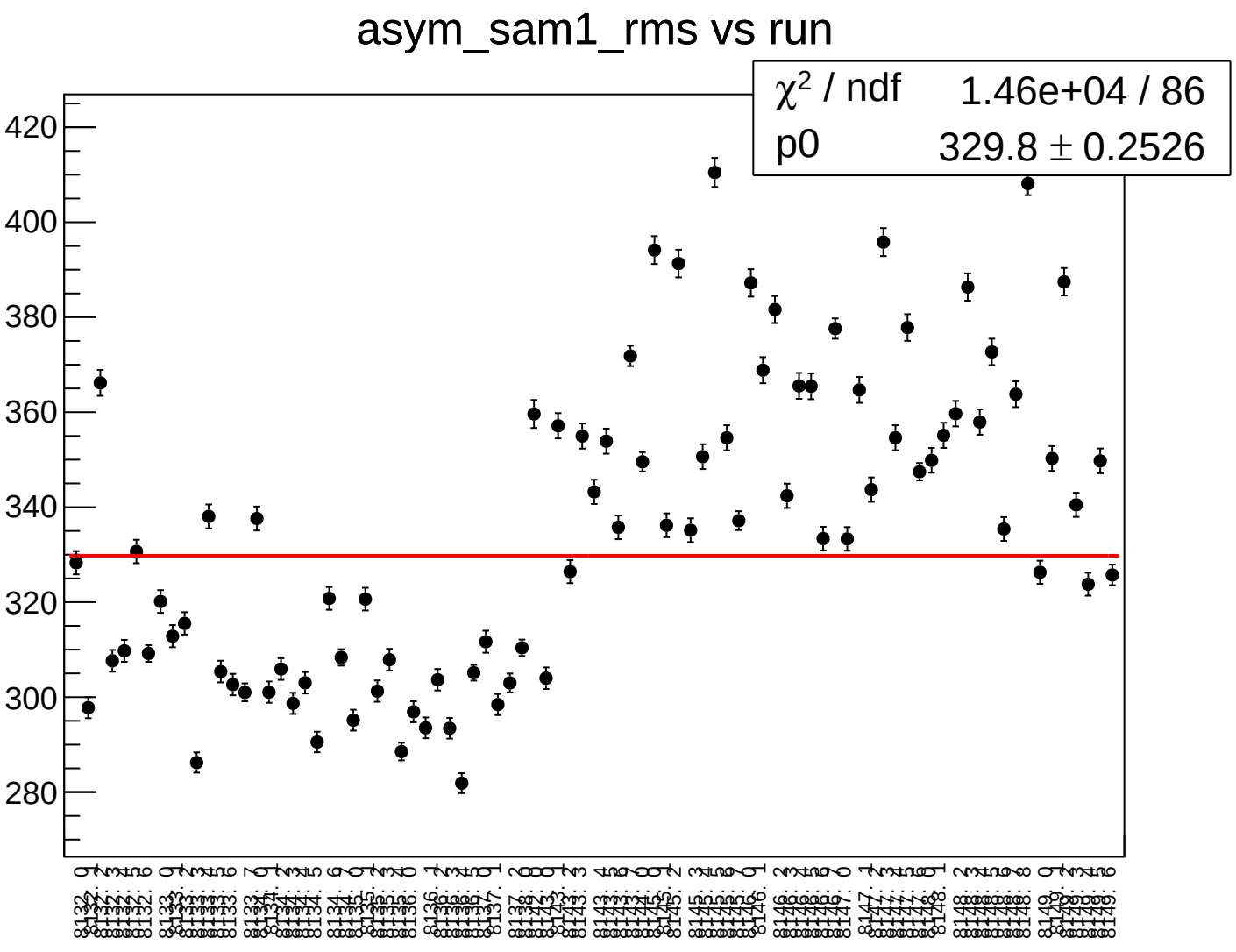

eigen_dit_asym_sam1_rms vs run
χ^2 / ndf 2.156e+04 / 86
p0 64.06 ± 0.04917
110
100
90
80
70
60

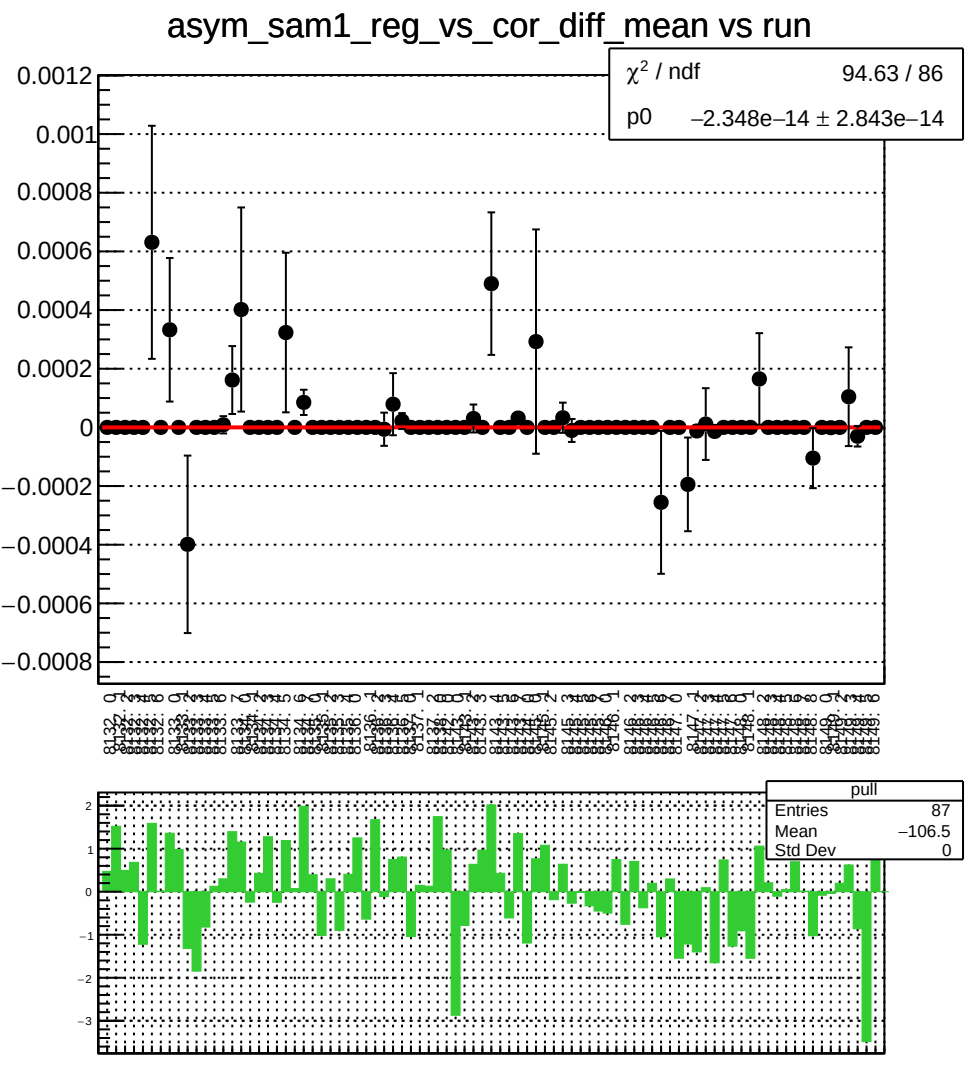

asym_sam1_eigen_dit_correction_mean vs run
χ² / ndf 99.22 / 86
p0 −64.18 ± 358.3
pull
Entries 87
Mean 2392
Std Dev 0
pull1D
Entries 87
Mean −0.001197
Std Dev 1.068

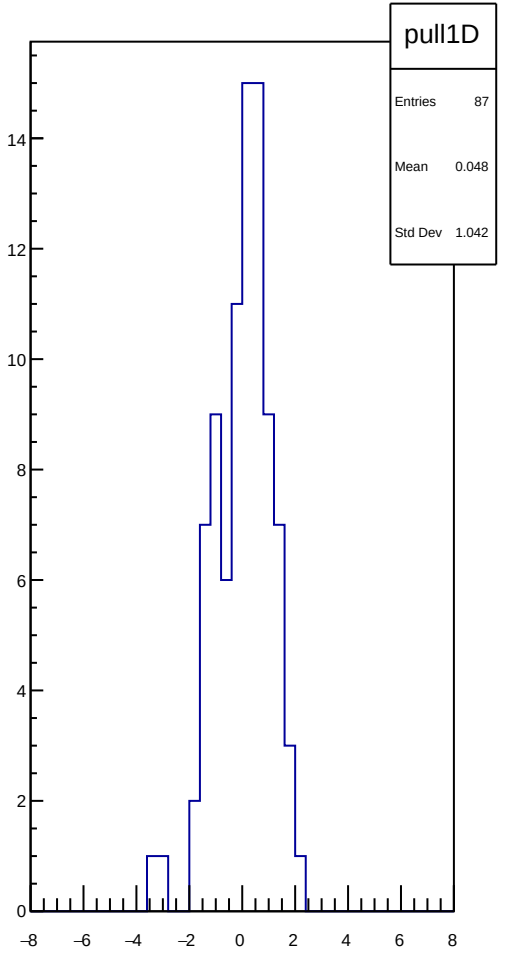

asym_sam1_eigen_dit_correction_rms vs run
χ² / ndf 1.437e+04 / 86
p0 330.8 ± 0.2534
420
400
380
360
340
320
300
280

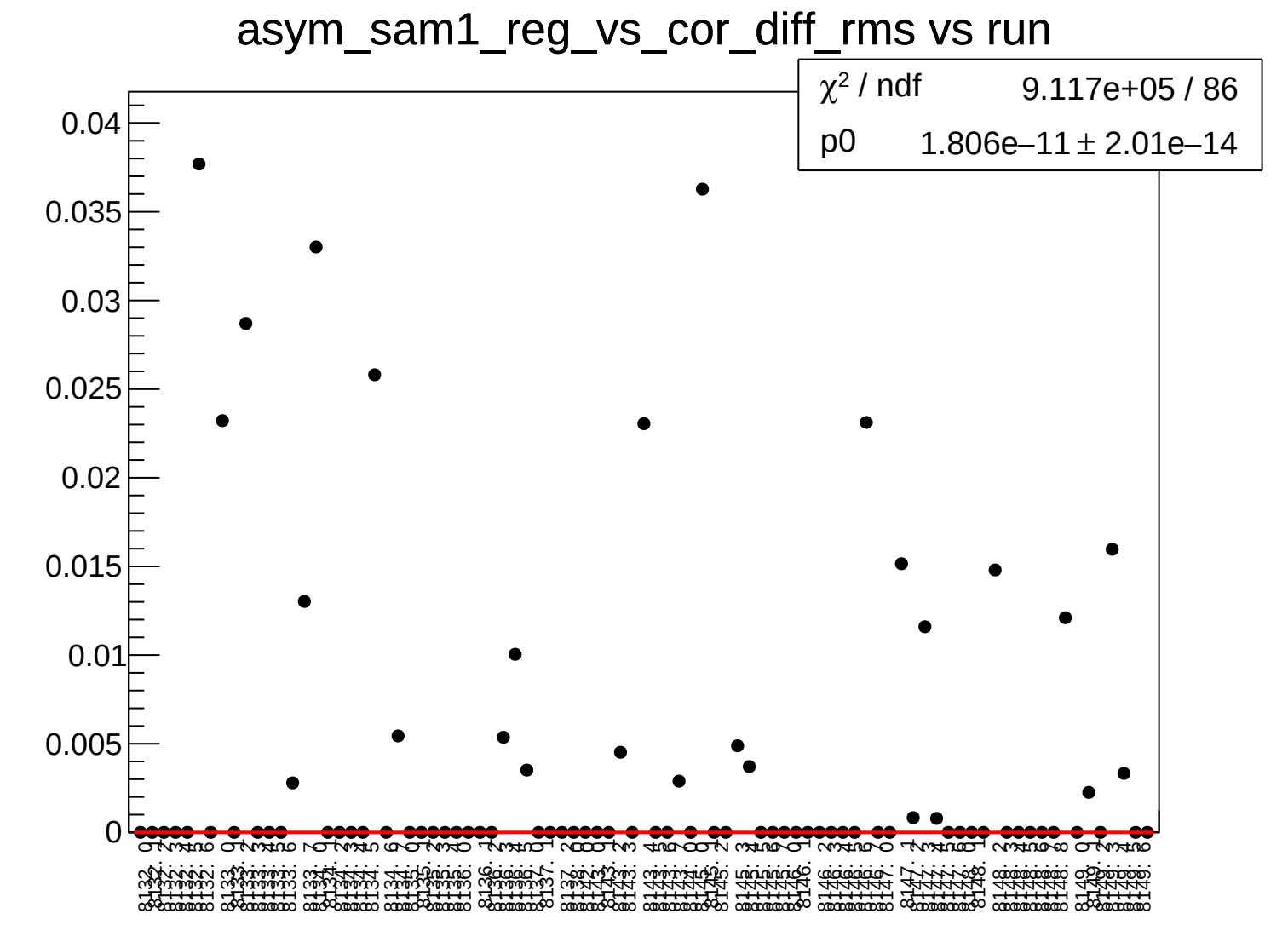

asym_sam1_mean vs run
χ² / ndf 93.67 / 86
p0 132 ± 357.2
15000
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 8115
Std Dev 0
3
2
1
0
−1
−2

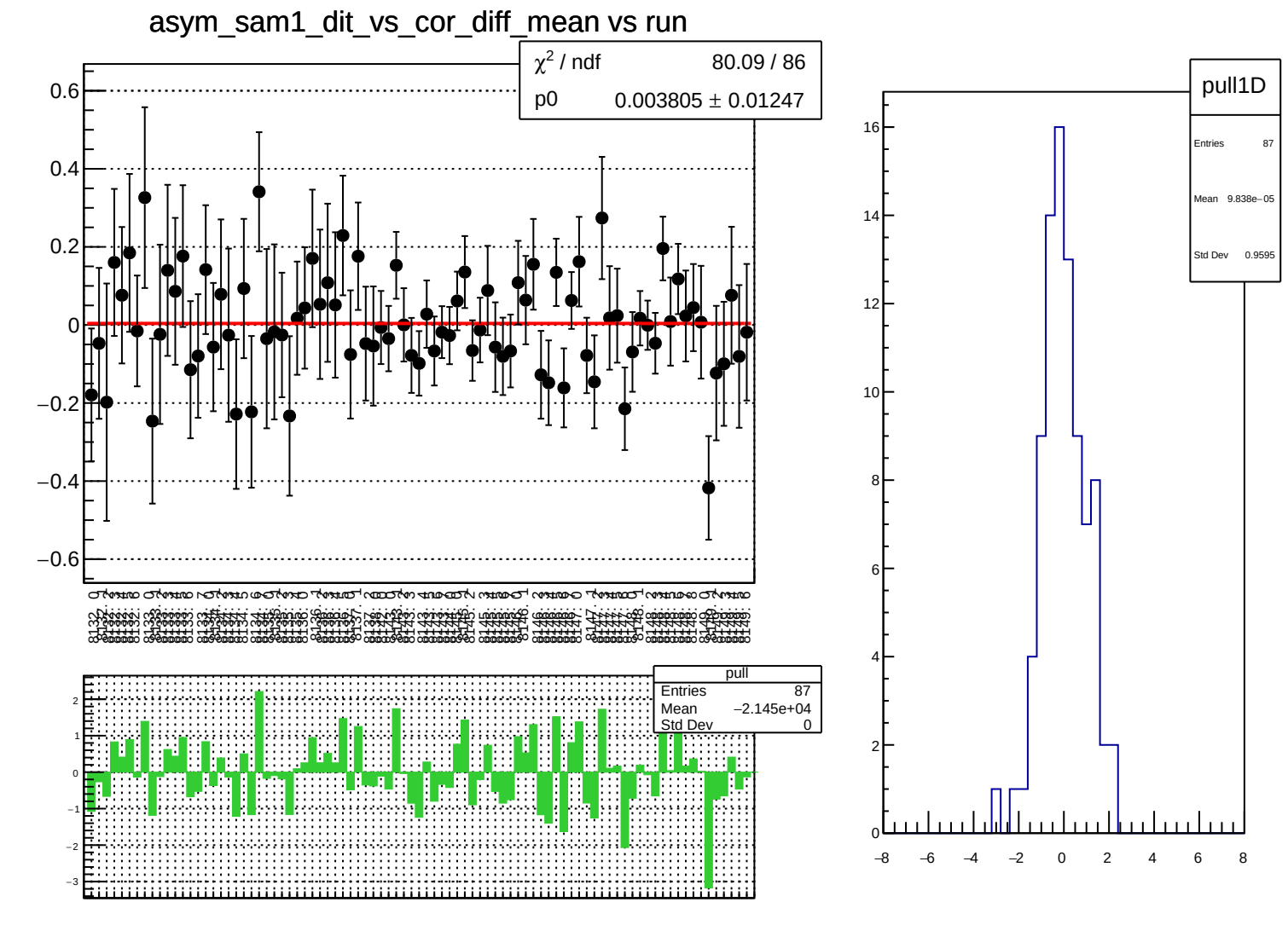

pull1D
Entries 87
Mean 0.0004062
Std Dev 1.038
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

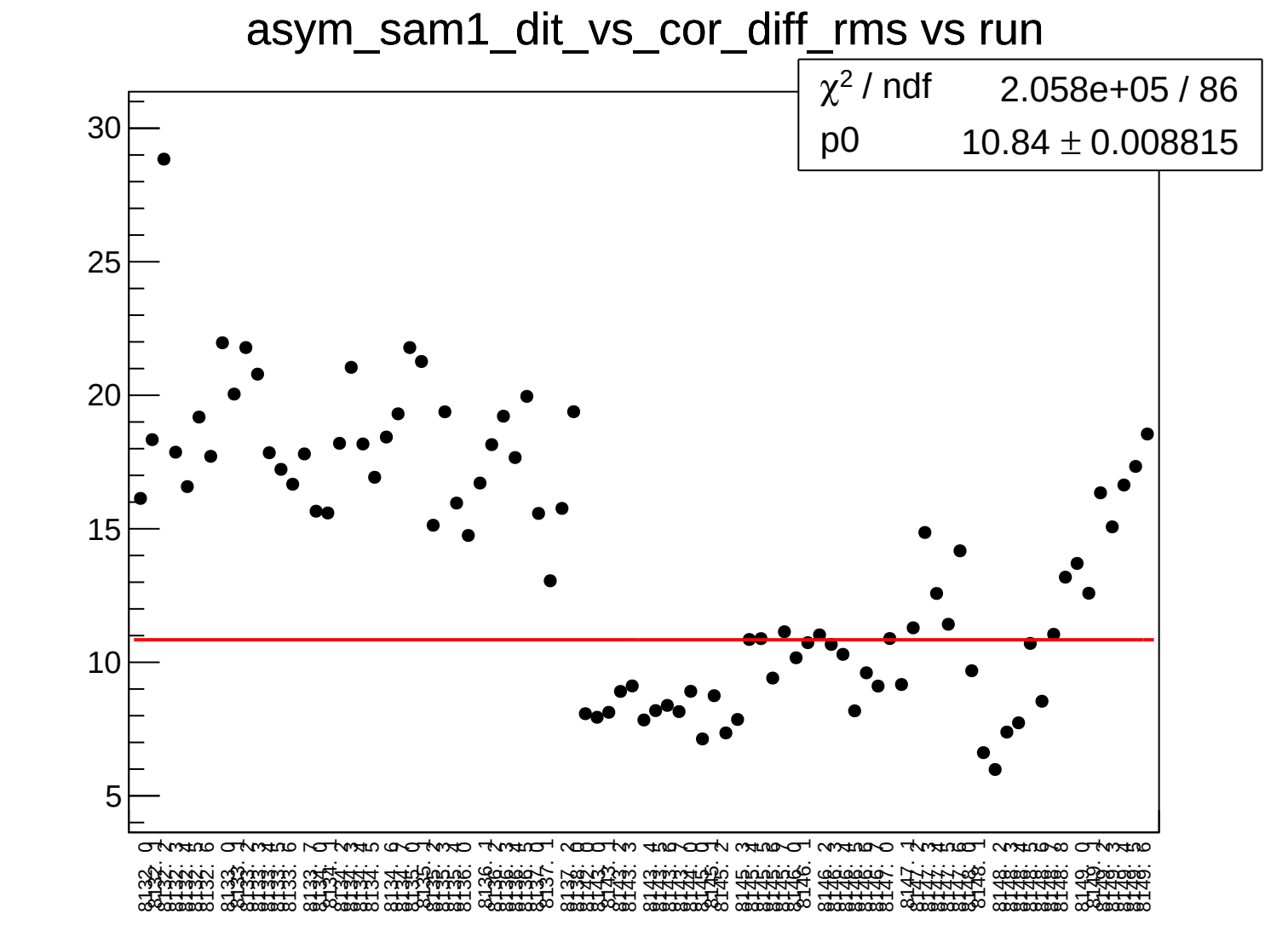

asym_sam1_rms vs run
χ² / ndf 1.46e+04 / 86
p0 329.8 ± 0.2526
420
400
380
360
340
320
300
280

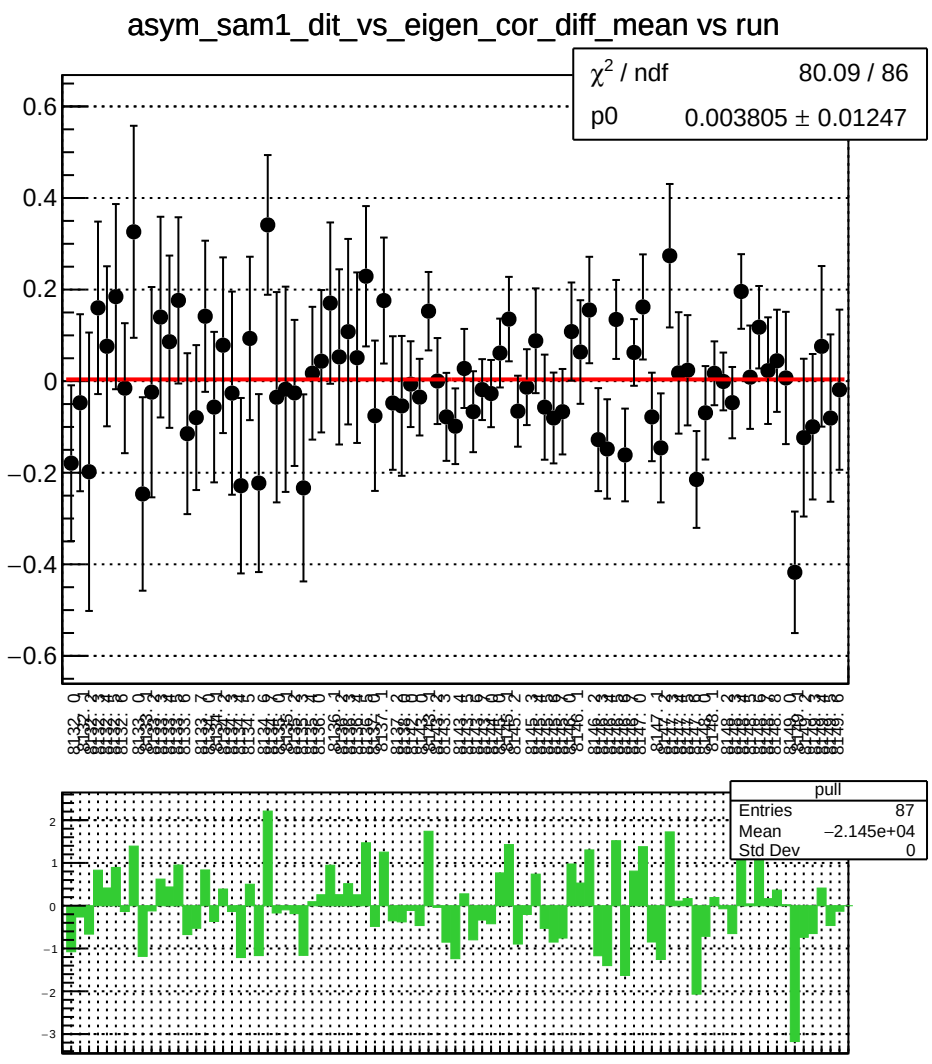

asym_sam1_reg_vs_cor_diff_mean vs run
χ² / ndf 94.63 / 86
p0 −2.348e−14 ± 2.843e−14
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
pull
Entries 87
Mean −106.5
Std Dev 0
2
1
0
−1
−2
−3

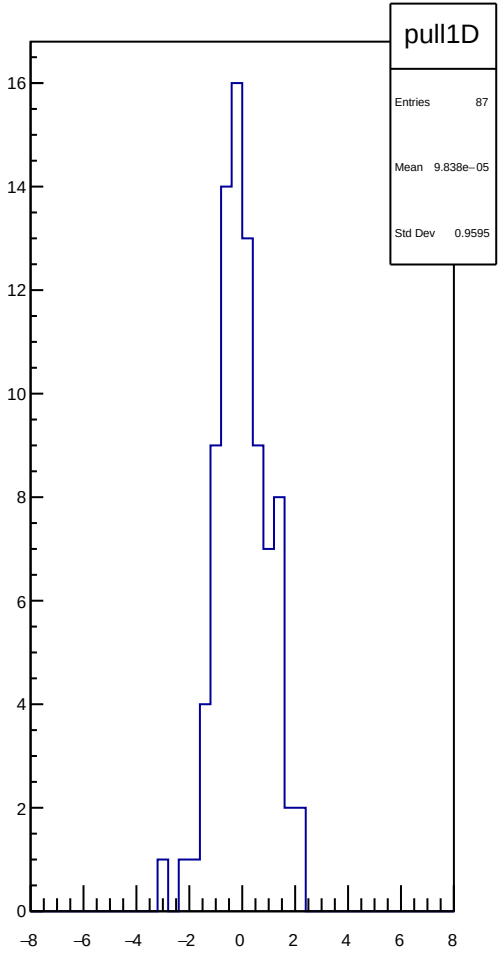

pull1D
Entries 87
Mean 0.048
Std Dev 1.042
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

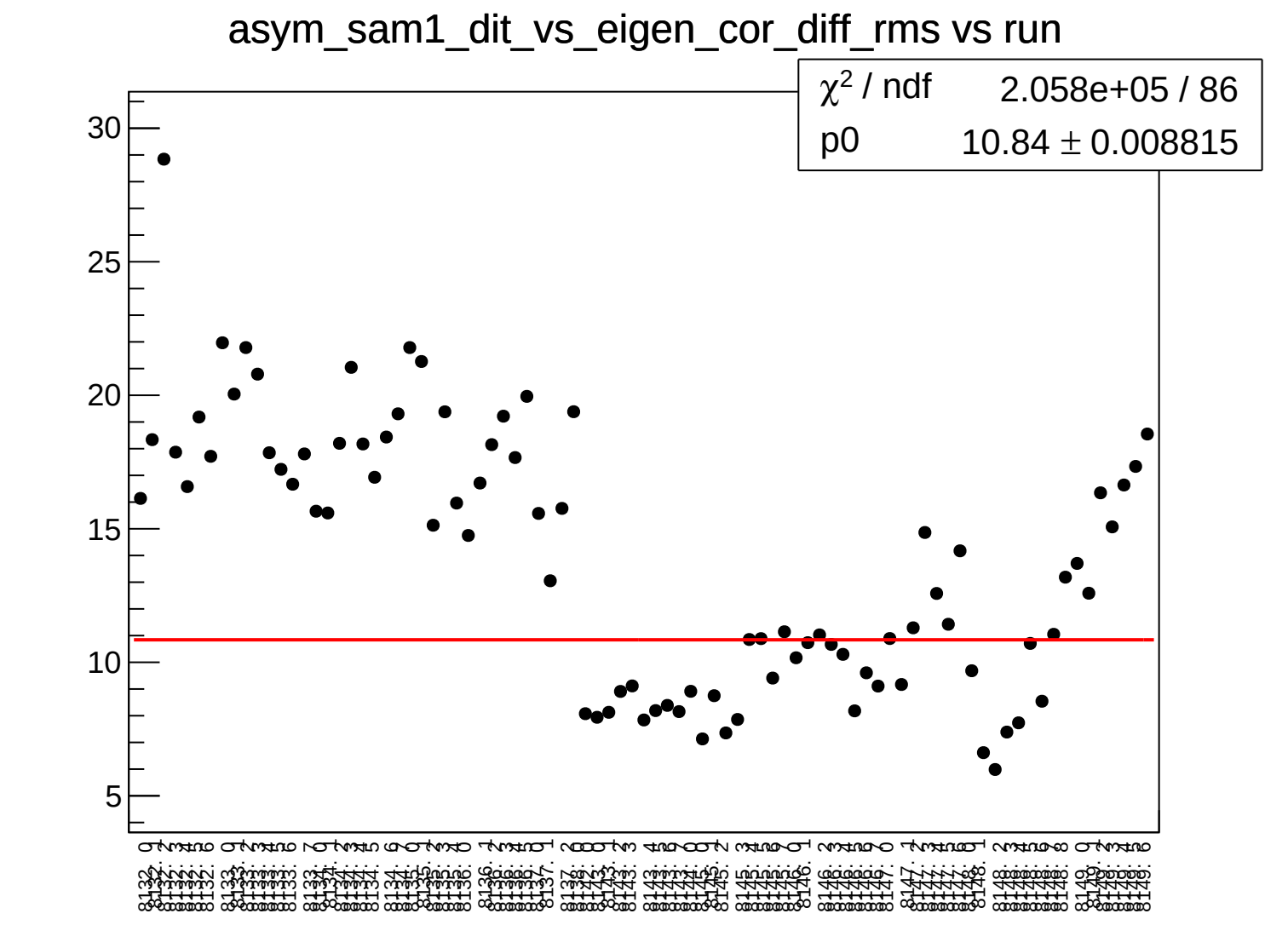

asym_sam1_reg_vs_cor_diff_rms vs run
χ² / ndf 9.117e+05 / 86
p0 1.806e−11 ± 2.01e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

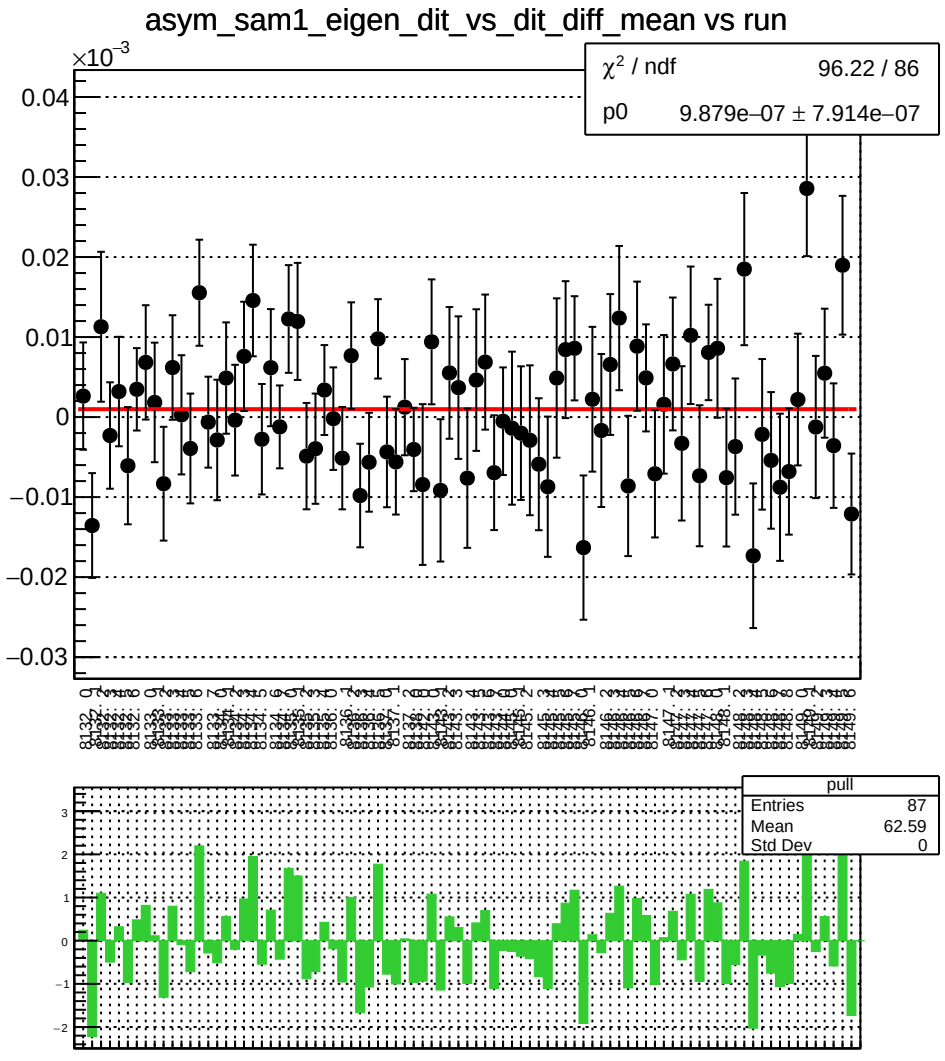

asym_sam1_dit_vs_cor_diff_mean vs run
χ² / ndf 80.09 / 86
p0 0.003805 ± 0.01247
pull
Entries 87
Mean −2.145e+04
Std Dev 0
pull1D
Entries 87
Mean 9.838e−05
Std Dev 0.9595

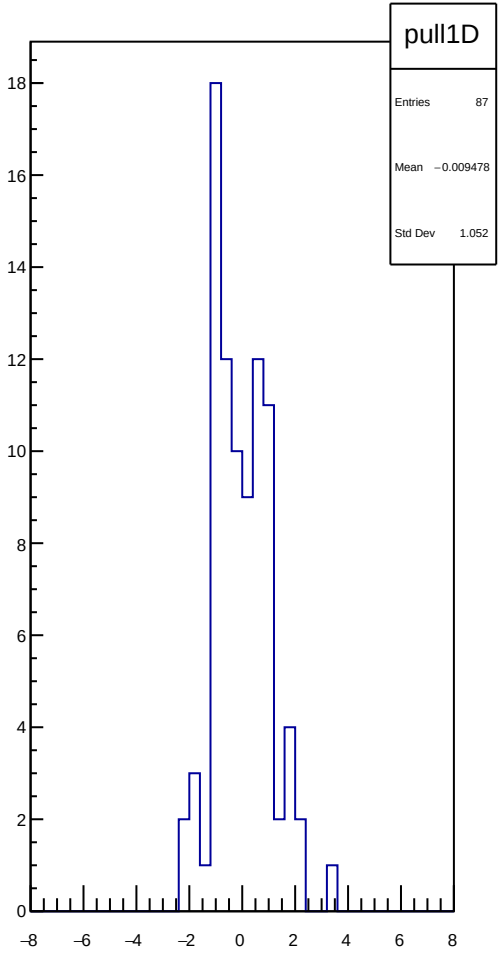

asym_sam1_dit_vs_cor_diff_rms vs run
χ² / ndf 2.058e+05 / 86
p0 10.84 ± 0.008815
30
25
20
15
10
5

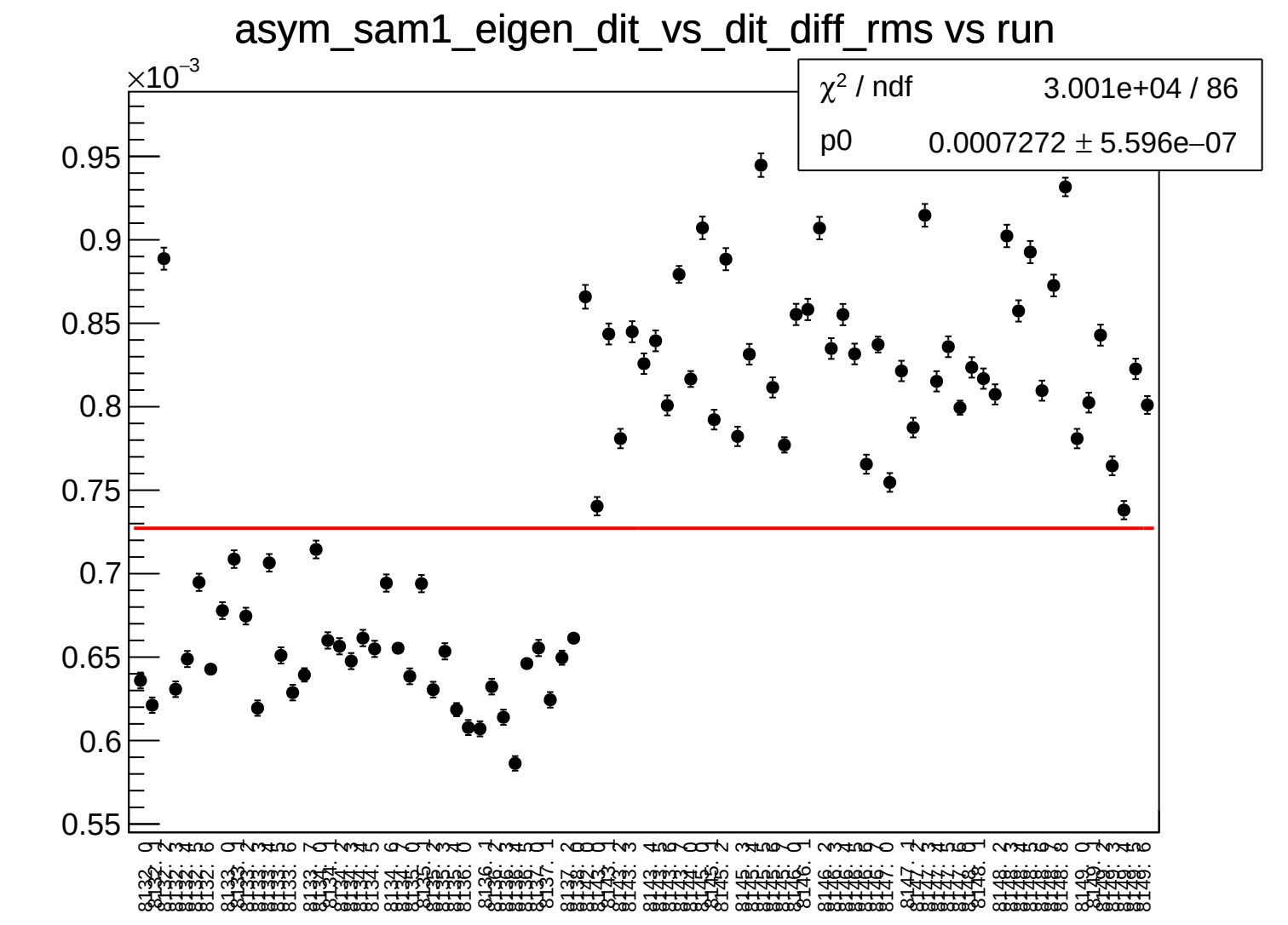

asym_sam1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.09 / 86
p0 0.003805 ± 0.01247
pull
Entries 87
Mean −2.145e+04
Std Dev 0

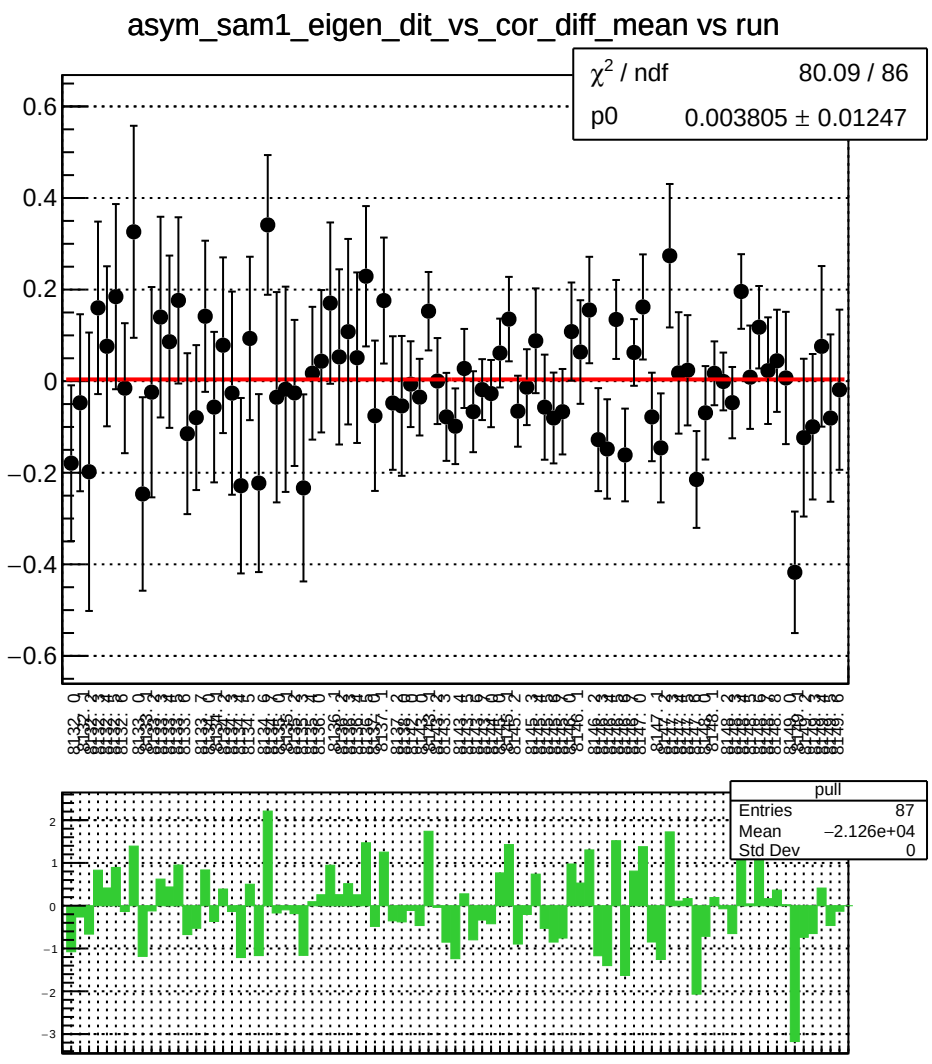

pull1D
Entries 87
Mean 9.838e−05
Std Dev 0.9595

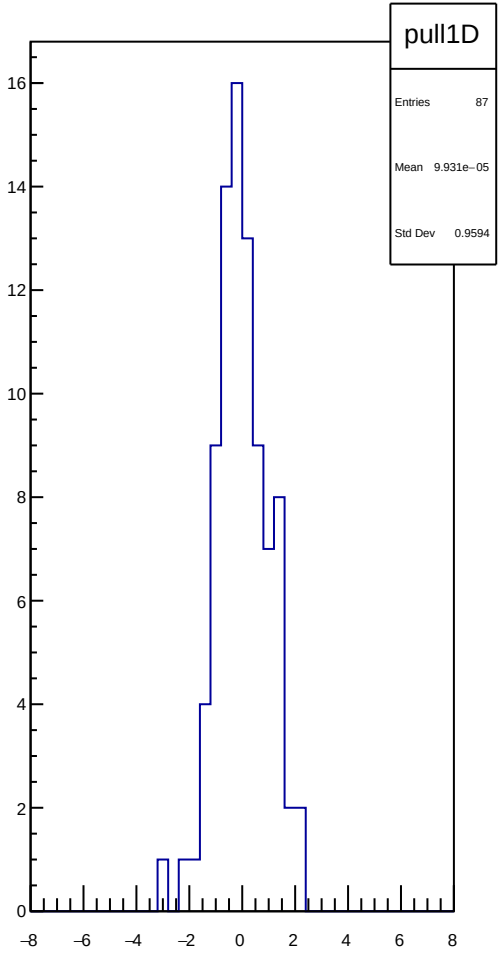

asym_sam1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.058e+05 / 86
p0 10.84 ± 0.008815
30
25
20
15
10
5

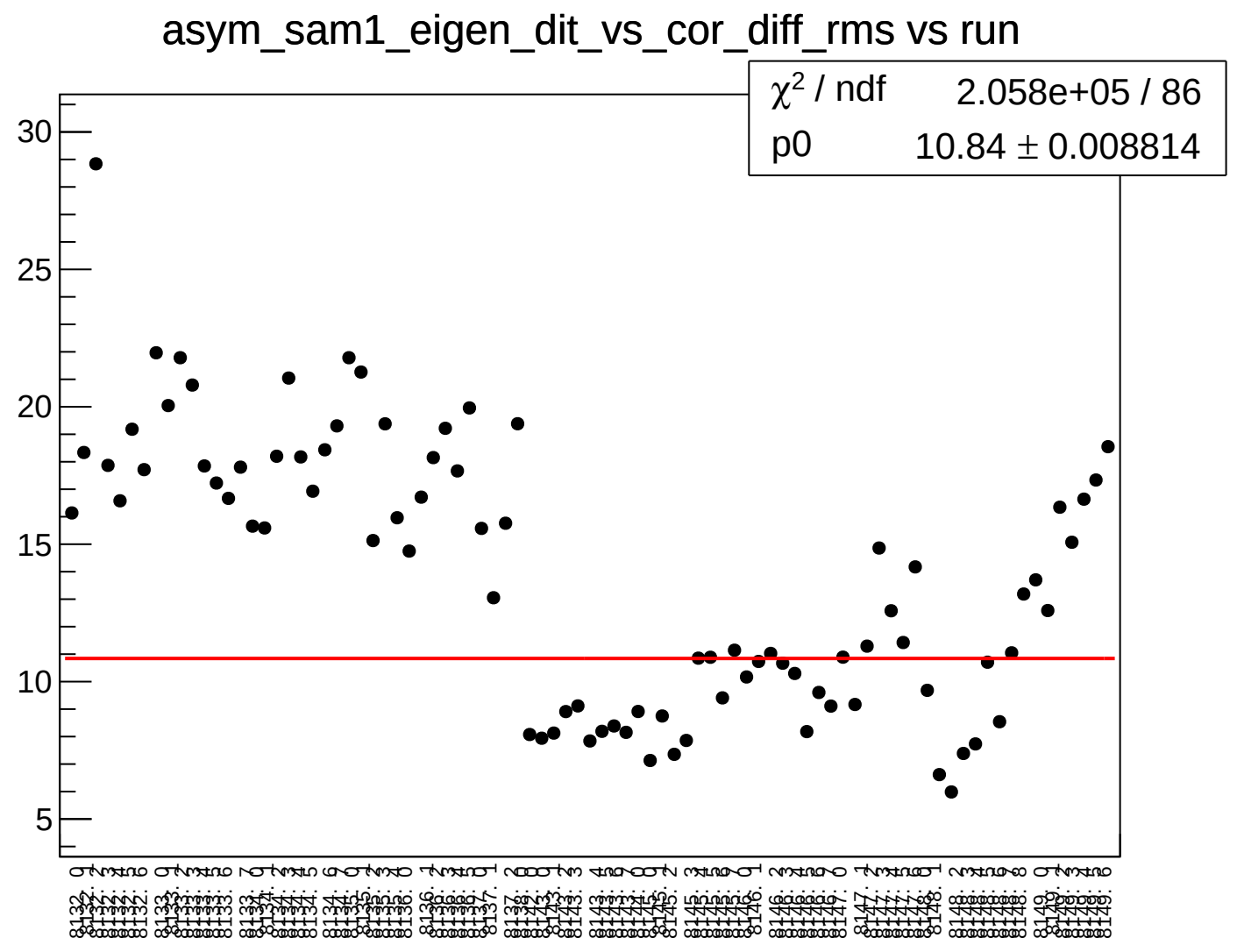

asym_sam1_eigen_dit_vs_dit_diff_mean vs run
×10−3
χ2 / ndf 96.22 / 86
p0 9.879e−07 ± 7.914e−07
pull
Entries 87
Mean 62.59
Std Dev 0

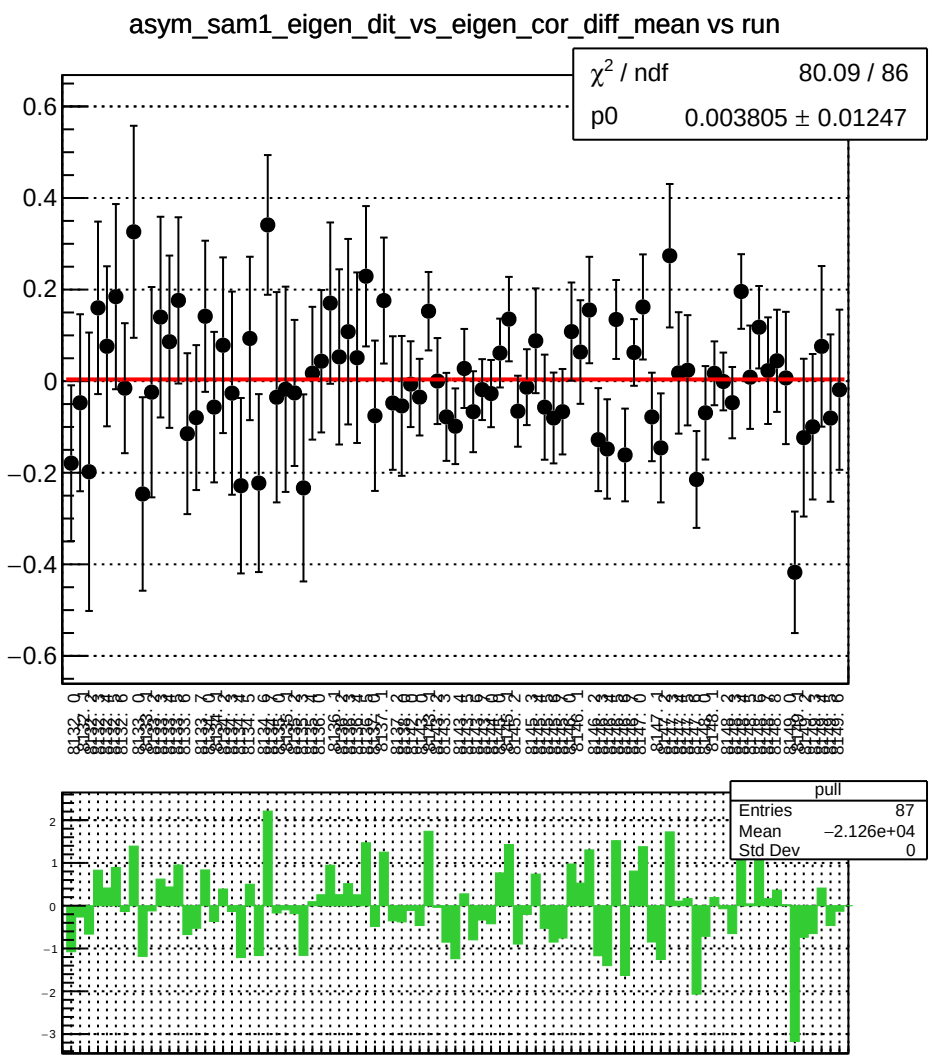

pull1D
Entries 87
Mean −0.009478
Std Dev 1.052

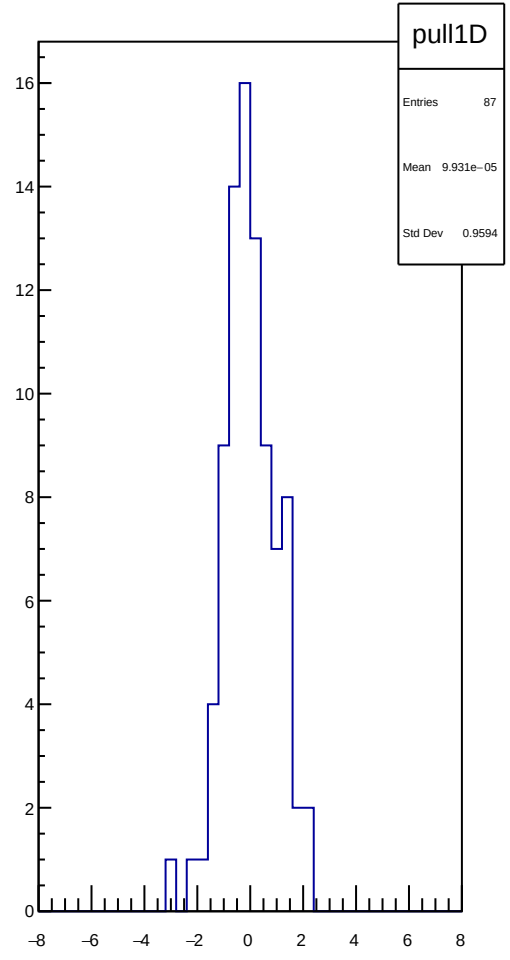

asym_sam1_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 3.001e+04 / 86
p0 0.0007272 ± 5.596e−07
0.95
0.9
0.85
0.8
0.75
0.7
0.65
0.6
0.55

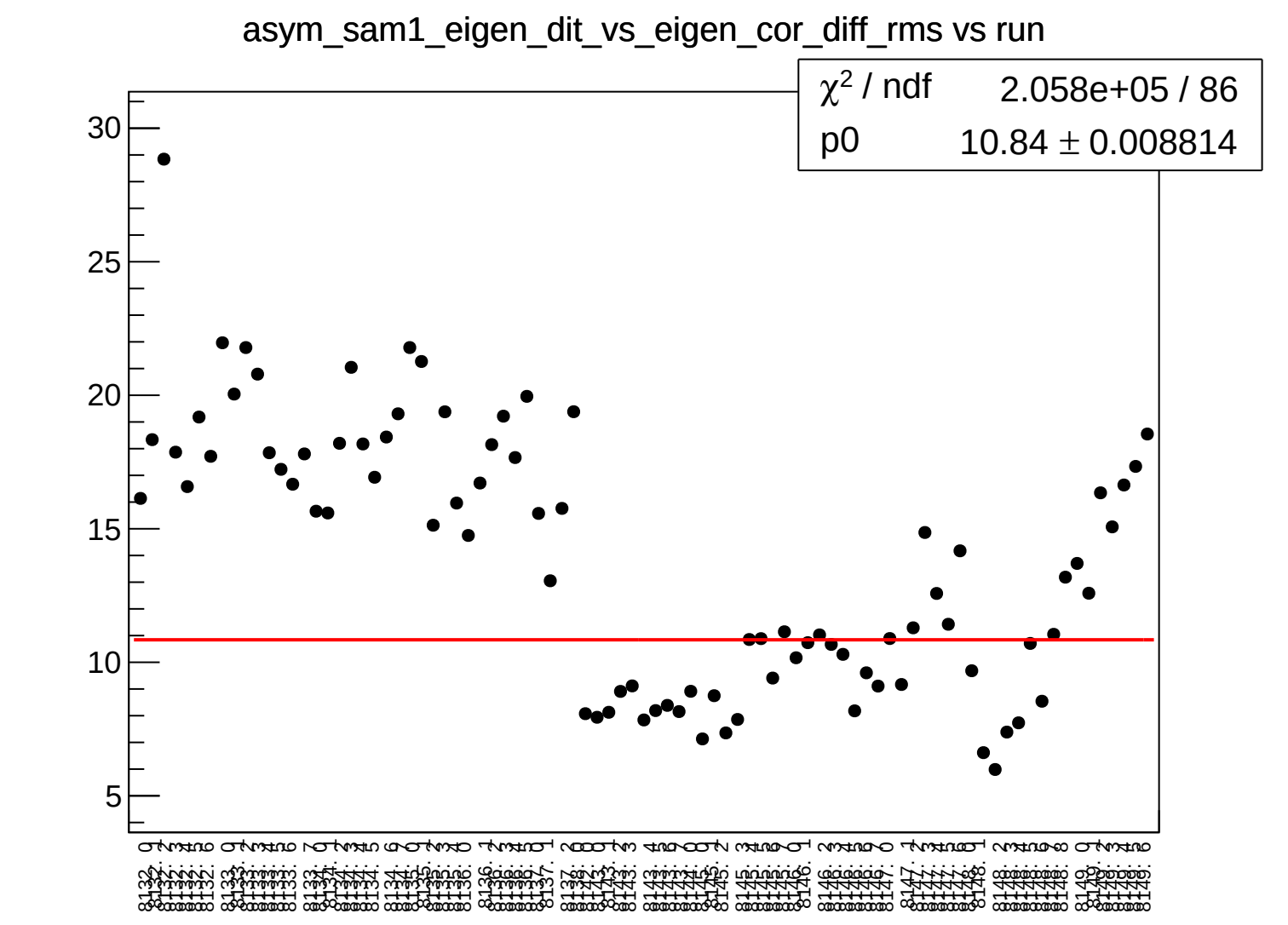

asym_sam1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.09 / 86
p0 0.003805 ± 0.01247
pull
Entries 87
Mean −2.126e+04
Std Dev 0

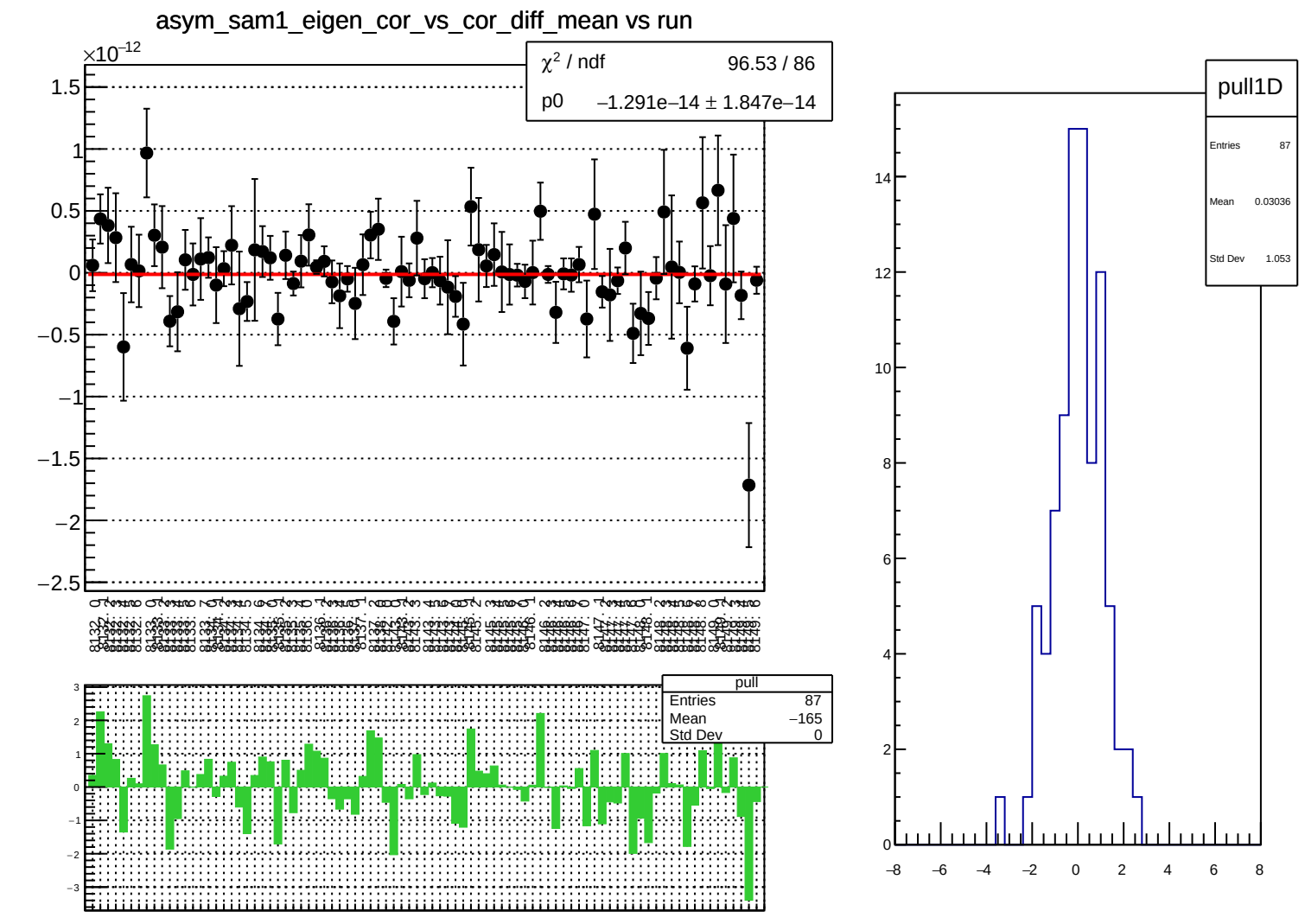

pull1D
Entries 87
Mean 9.931e−05
Std Dev 0.9594

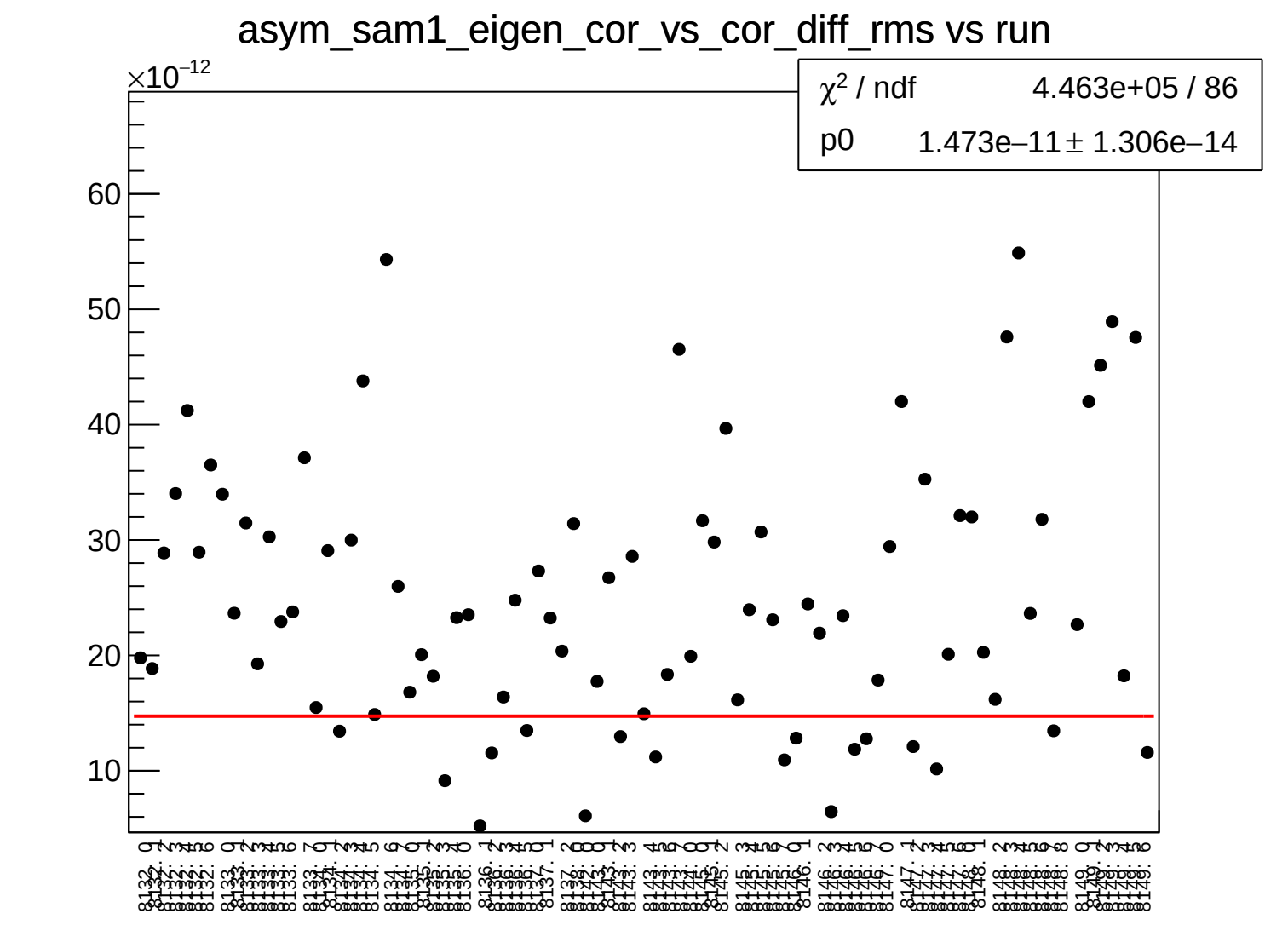

asym_sam1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.058e+05 / 86
p0 10.84 ± 0.008814
30
25
20
15
10
5

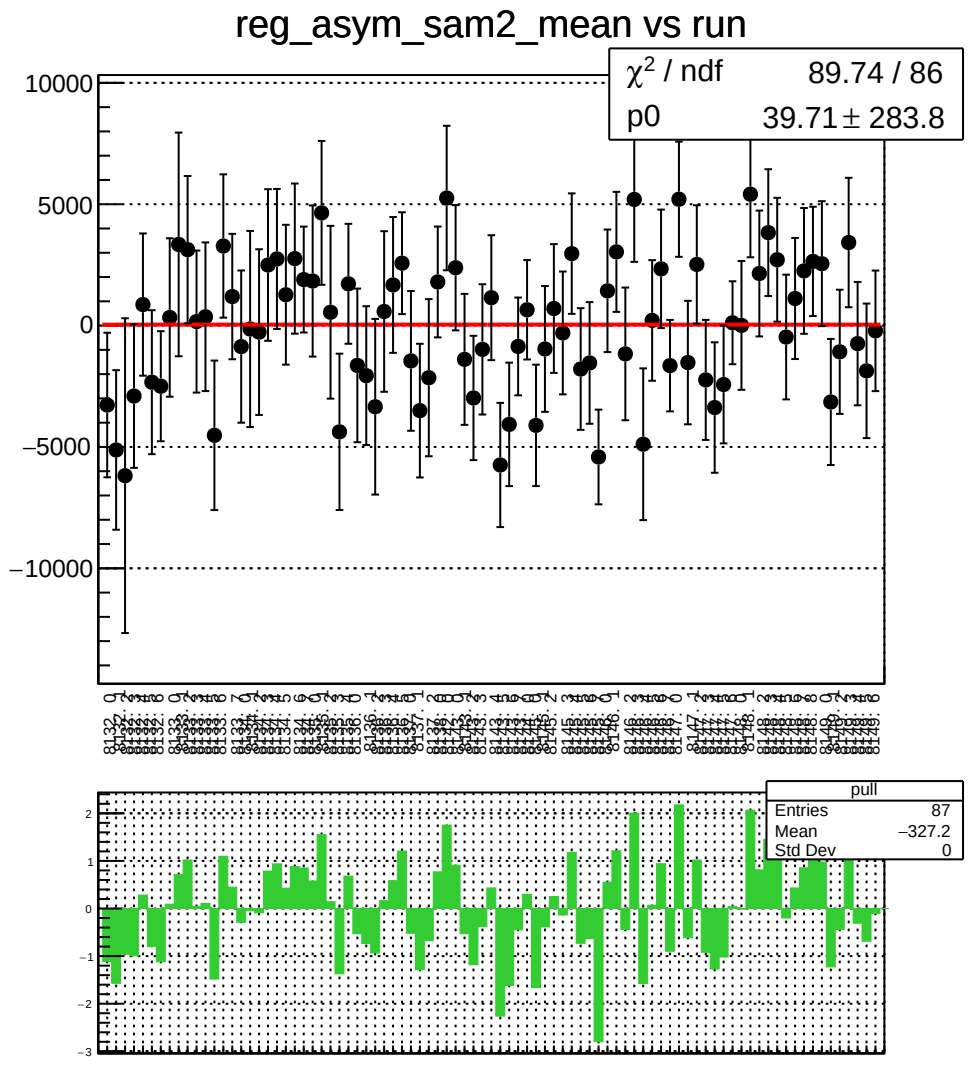

asym_sam1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.09 / 86
p0 0.003805 ± 0.01247
pull
Entries 87
Mean −2.126e+04
Std Dev 0

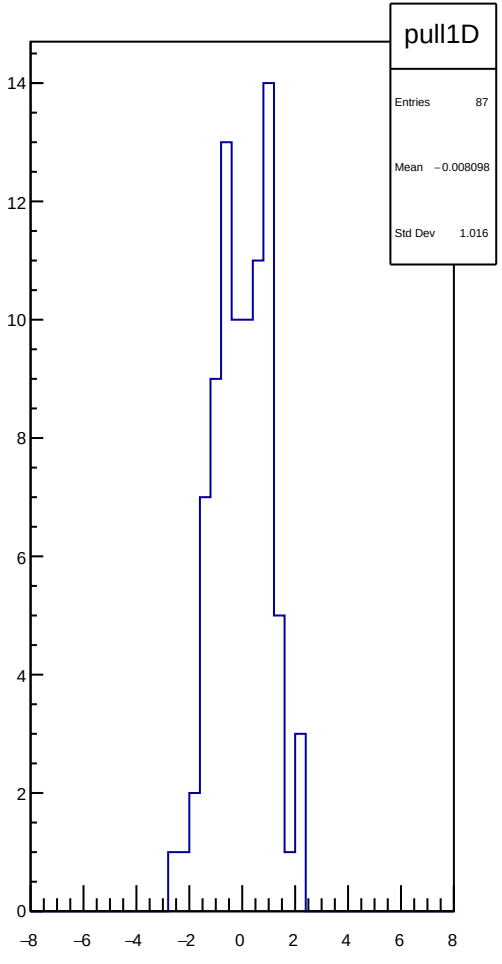

pull1D
Entries 87
Mean 9.931e−05
Std Dev 0.9594

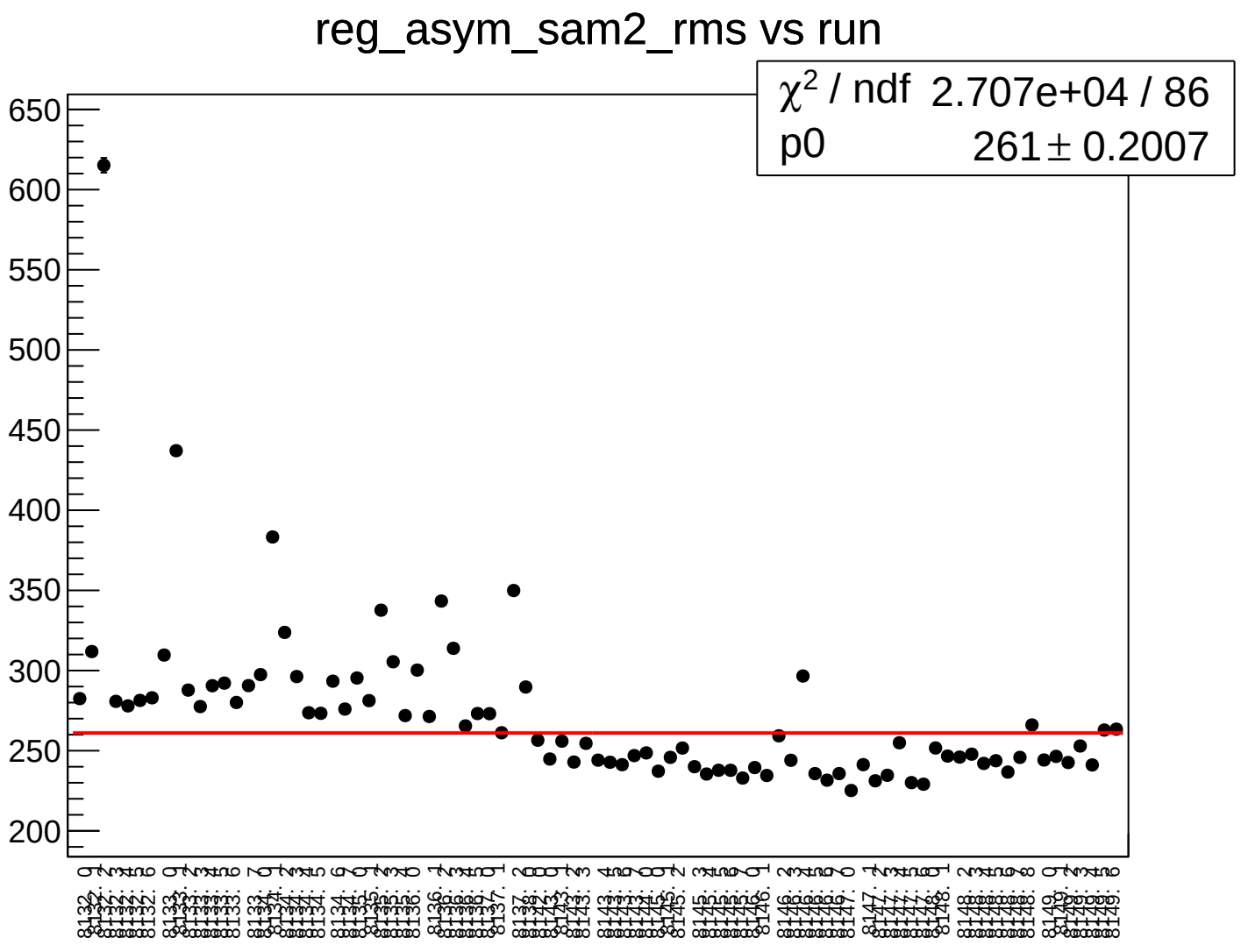

asym_sam1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.058e+05 / 86
p0 10.84 ± 0.008814
30
25
20
15
10
5

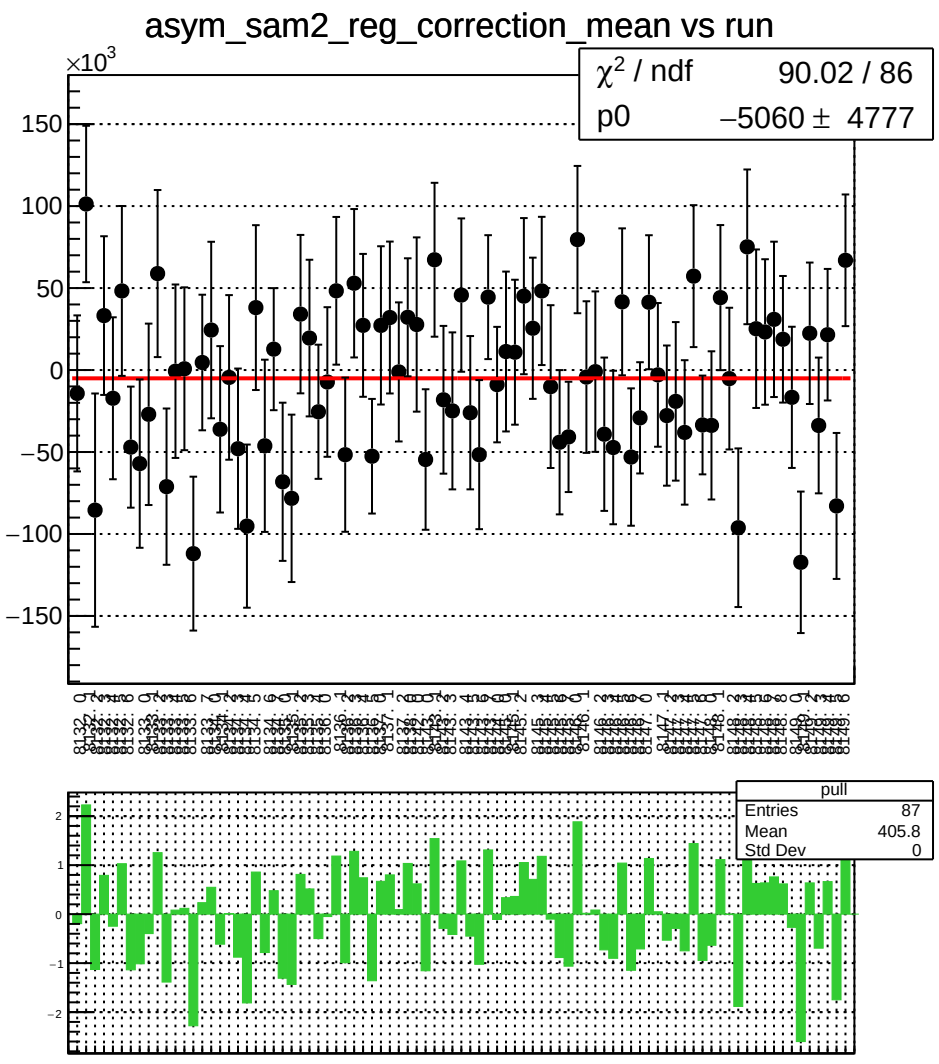

asym_sam1_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 96.53 / 86
p0 −1.291e−14 ± 1.847e−14
pull
Entries 87
Mean −165
Std Dev 0
pull1D
Entries 87
Mean 0.03036
Std Dev 1.053

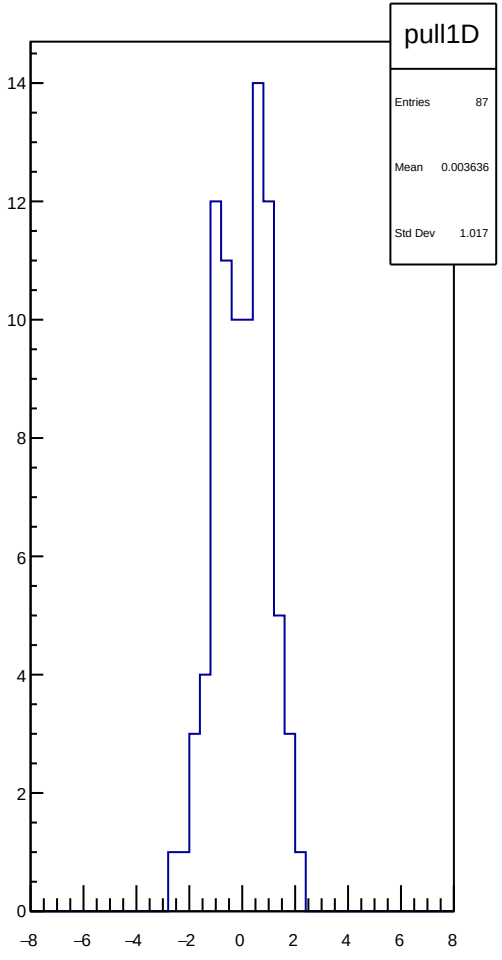

asym_sam1_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.463e+05 / 86
p0 1.473e−11 ± 1.306e−14
60
50
40
30
20
10


reg_asym_sam2_mean vs run
χ^2 / ndf 89.74 / 86
p0 39.71 ± 283.8
10000
5000
0
−5000
−10000
pull
Entries 87
Mean −327.2
Std Dev 0
2
1
0
−1
−2
−3

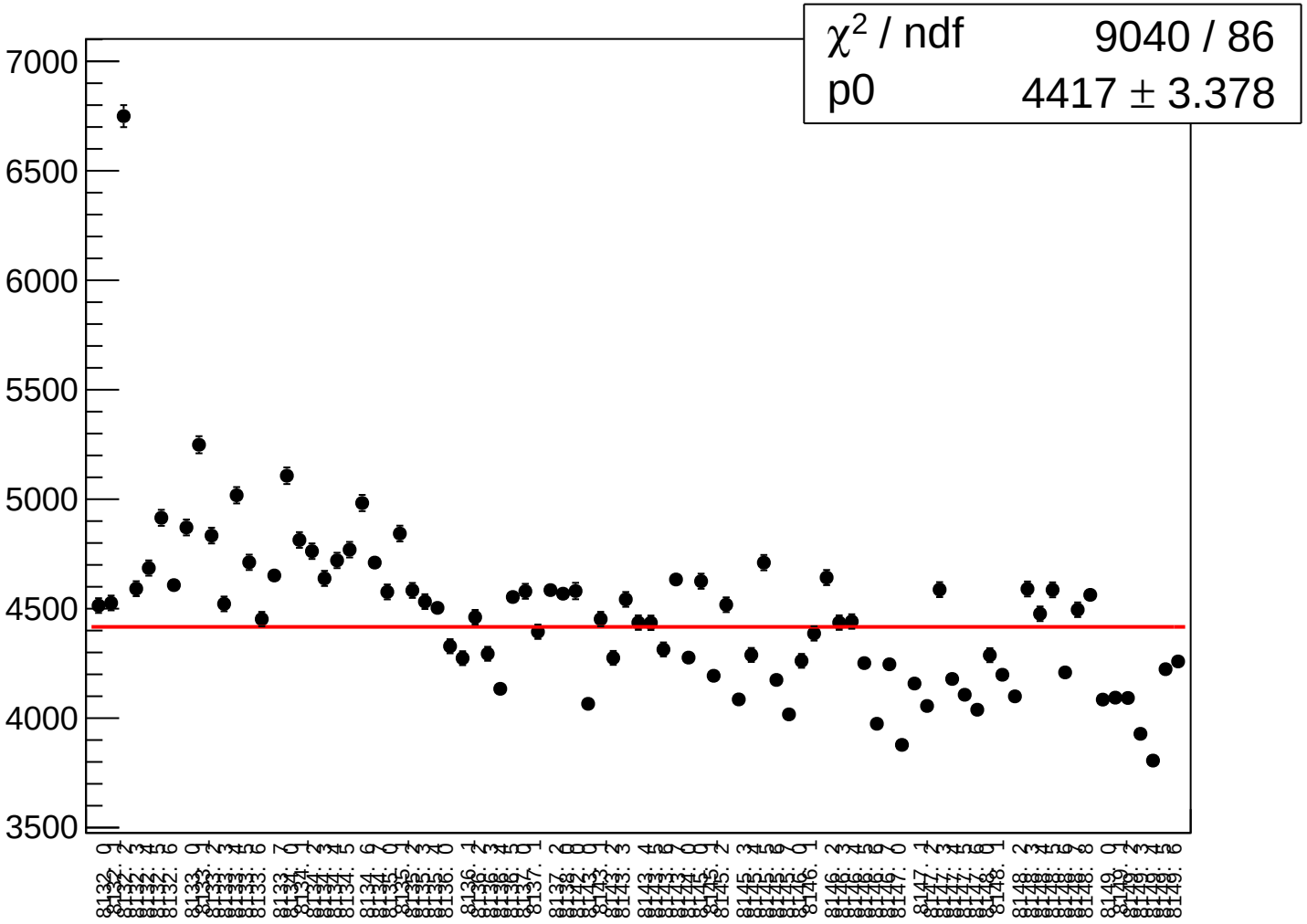

pull1D
Entries 87
Mean −0.008098
Std Dev 1.016
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

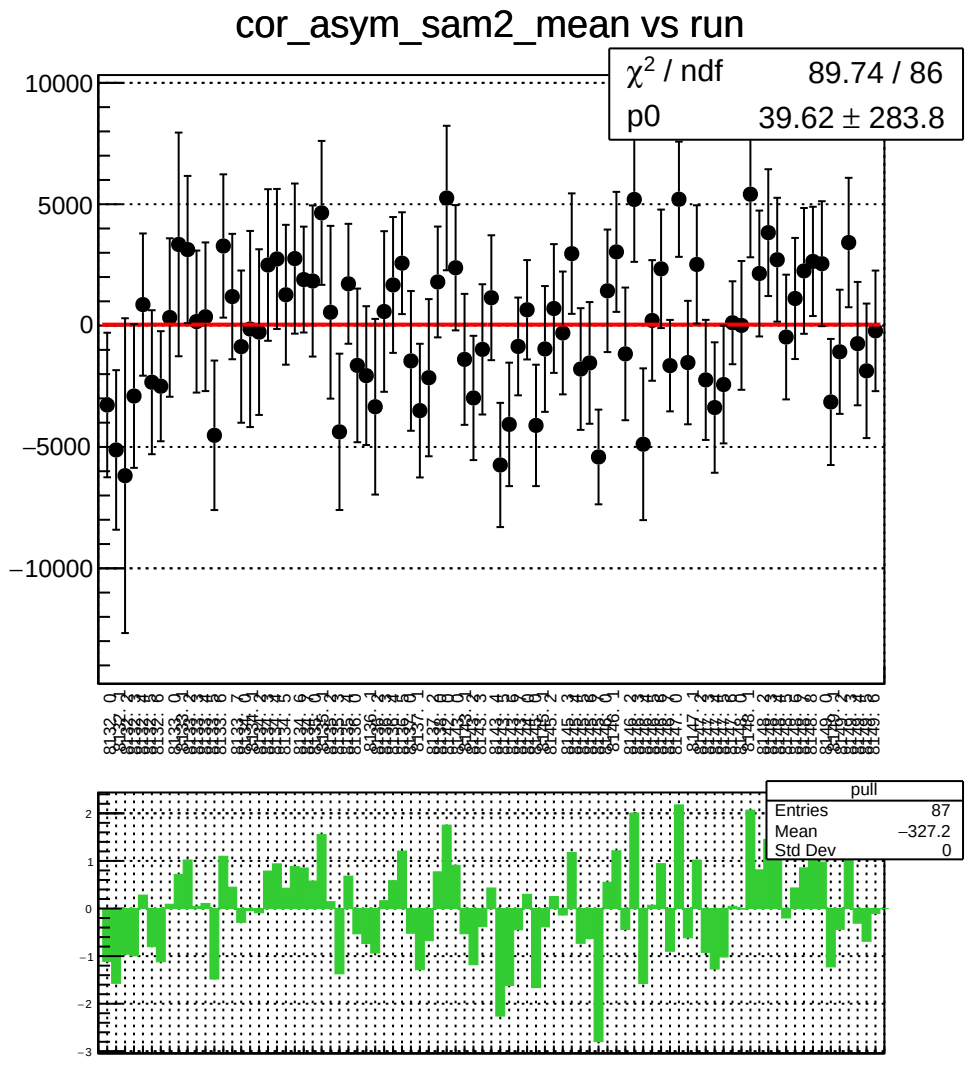

reg_asym_sam2_rms vs run
χ² / ndf 2.707e+04 / 86
p0 261 ± 0.2007
650
600
550
500
450
400
350
300
250
200

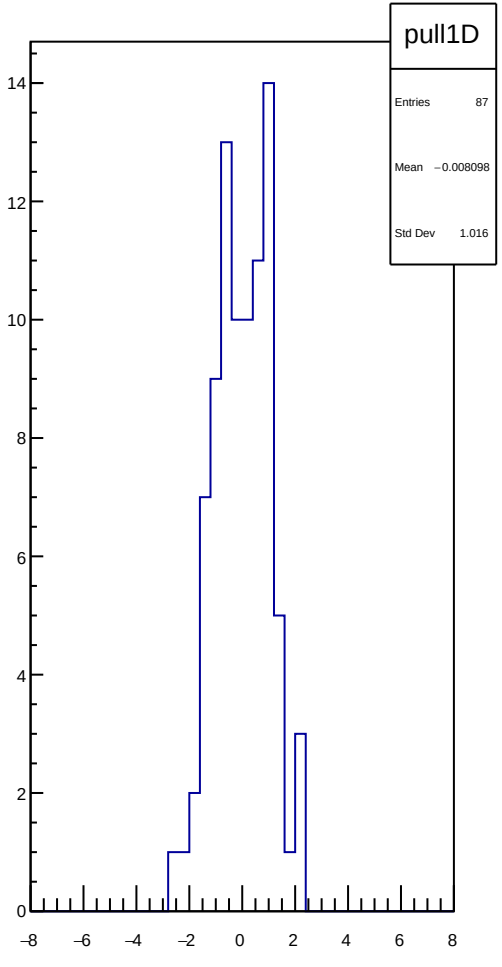

asym_sam2_reg_correction_mean vs run
×10^3
χ^2 / ndf 90.02 / 86
p0 −5060 ± 4777
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean 405.8
Std Dev 0
2
1
0
−1
−2

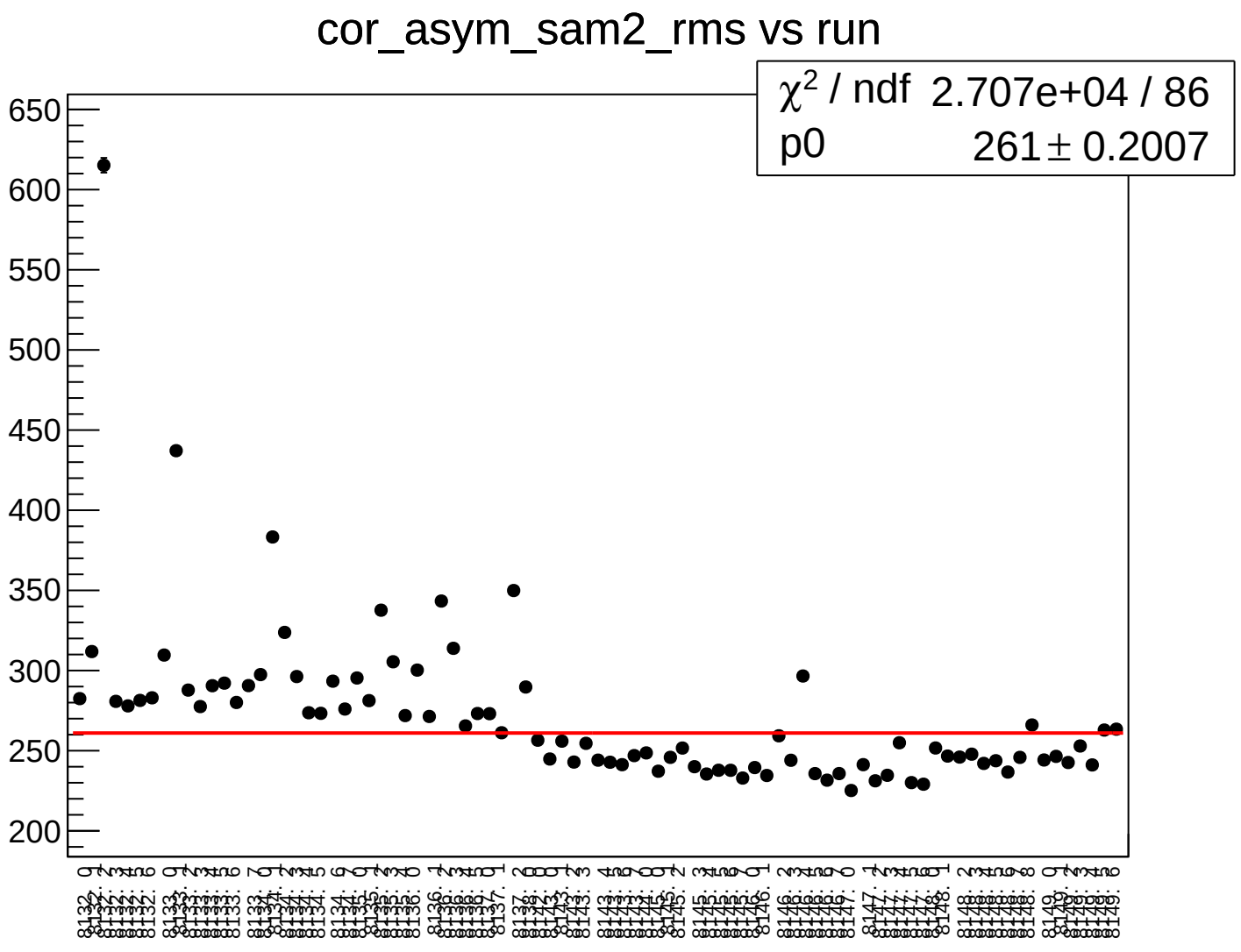

pull1D
Entries 87
Mean 0.003636
Std Dev 1.017
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

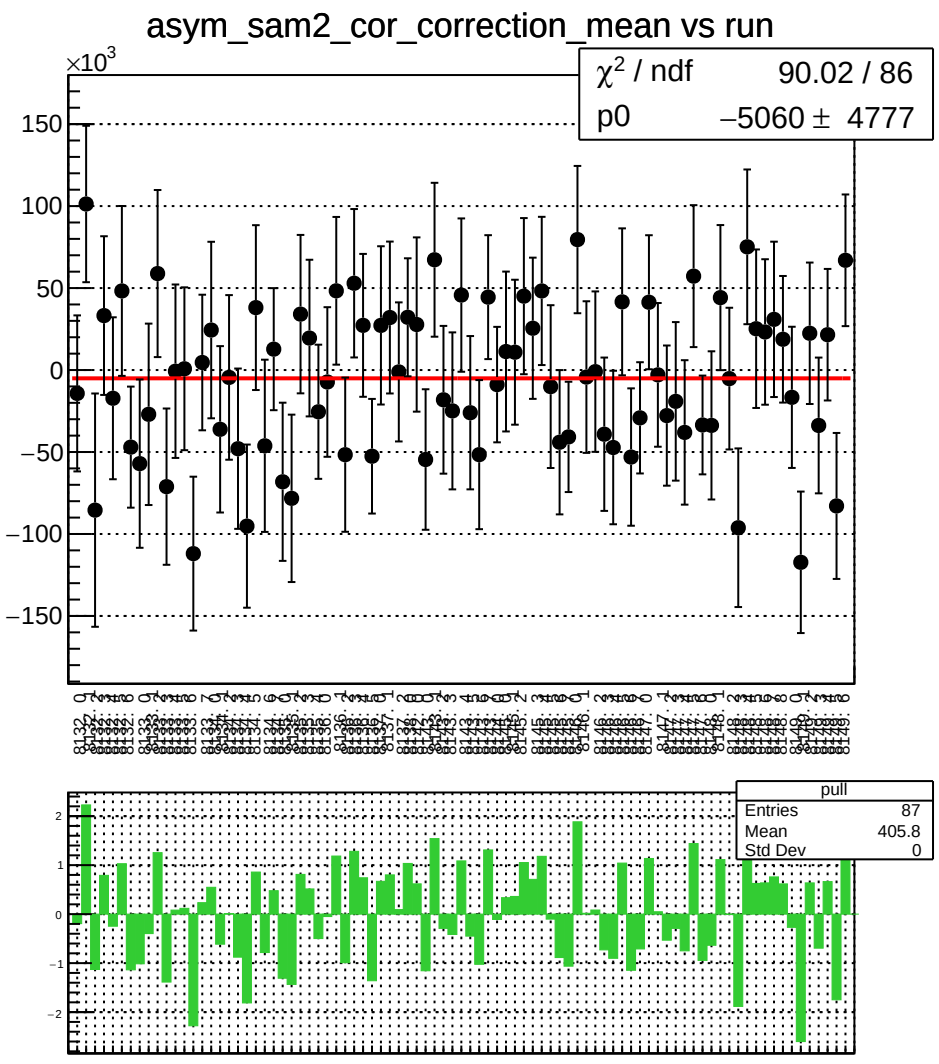
asym_sam2_reg_correction_rms vs run

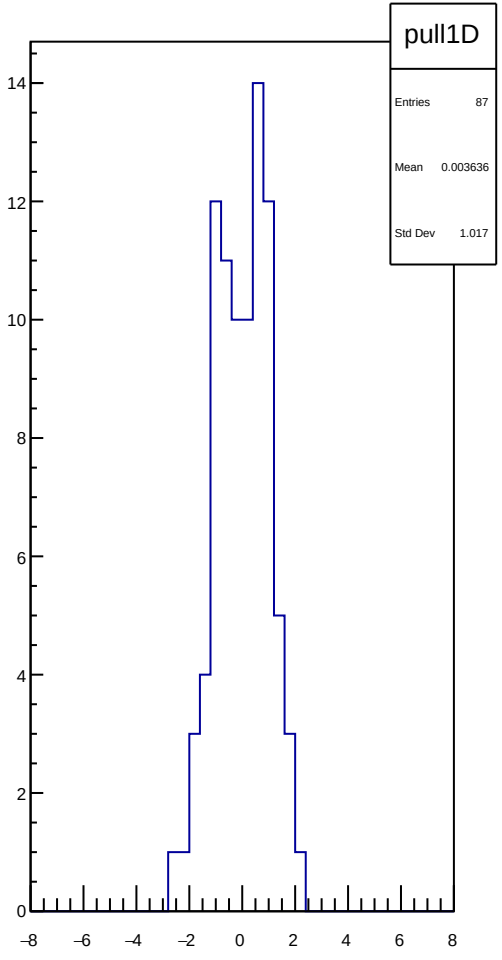


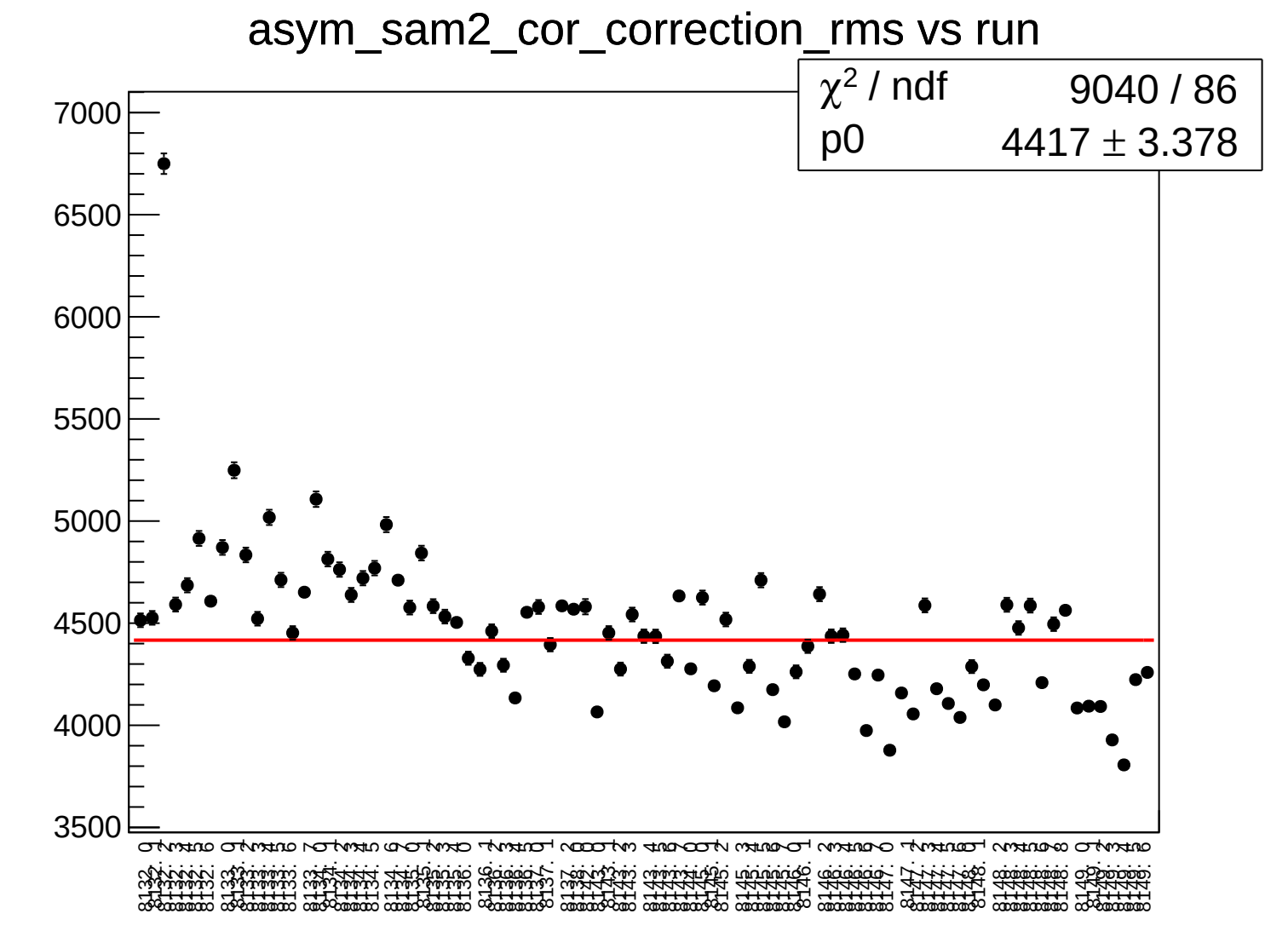

cor_asym_sam2_mean vs run
χ² / ndf 89.74 / 86
p0 39.62 ± 283.8
10000
5000
0
−5000
−10000
pull
Entries 87
Mean −327.2
Std Dev 0
2
1
0
−1
−2
−3

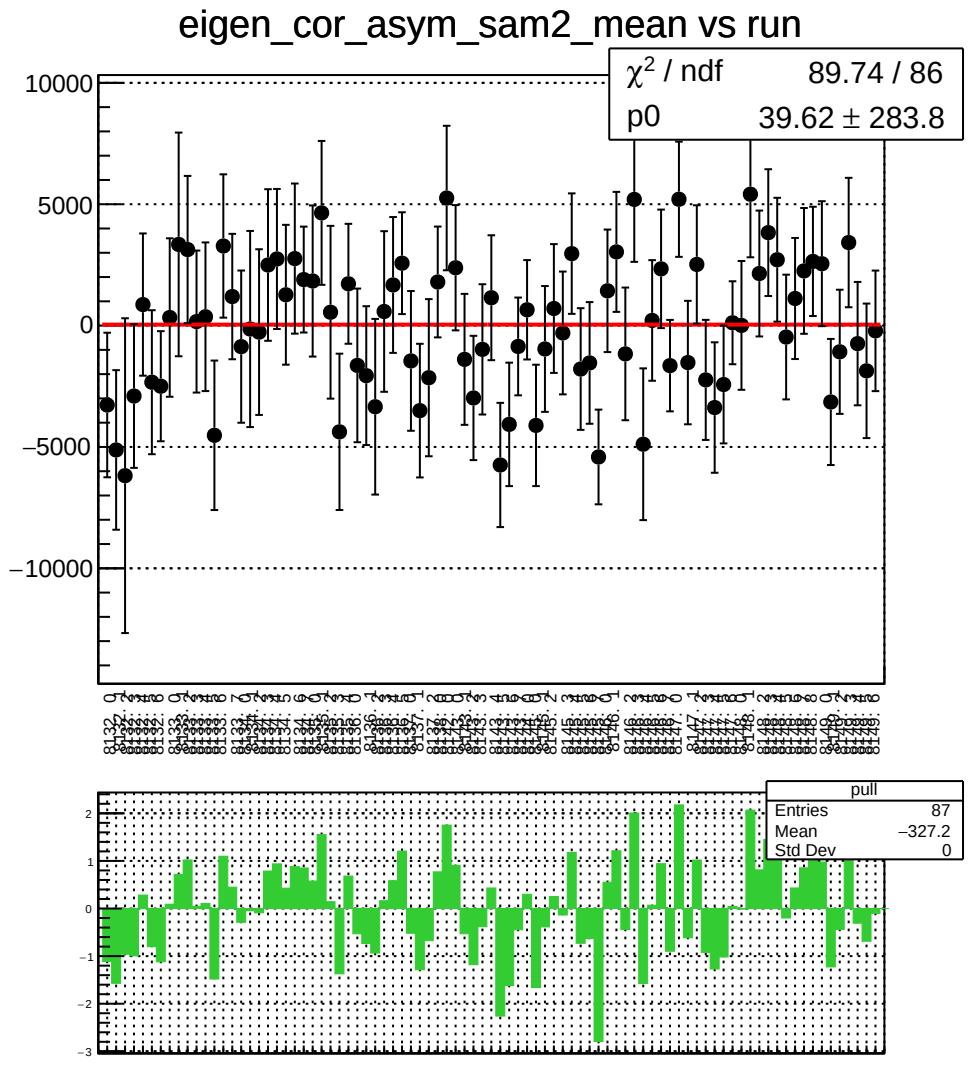

pull1D
Entries 87
Mean −0.008098
Std Dev 1.016
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

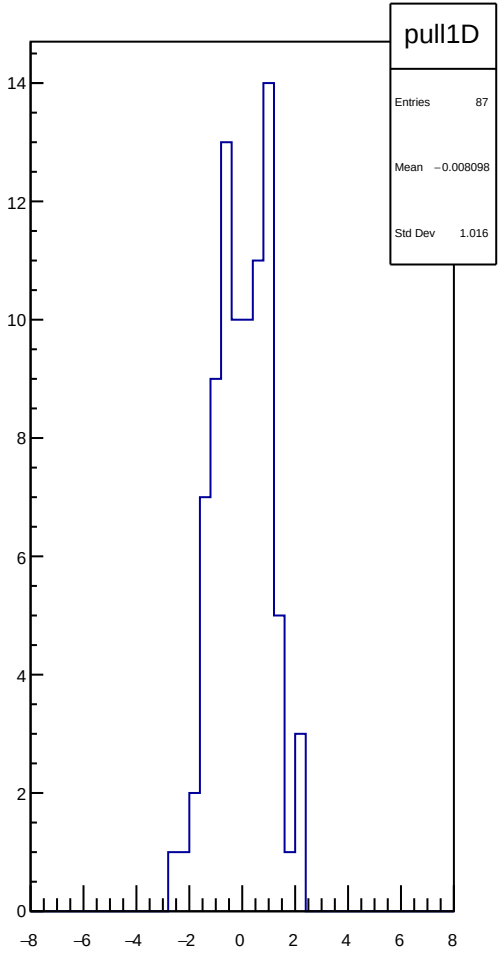

cor_asym_sam2_rms vs run
χ² / ndf 2.707e+04 / 86
p0 261 ± 0.2007
650
600
550
500
450
400
350
300
250
200

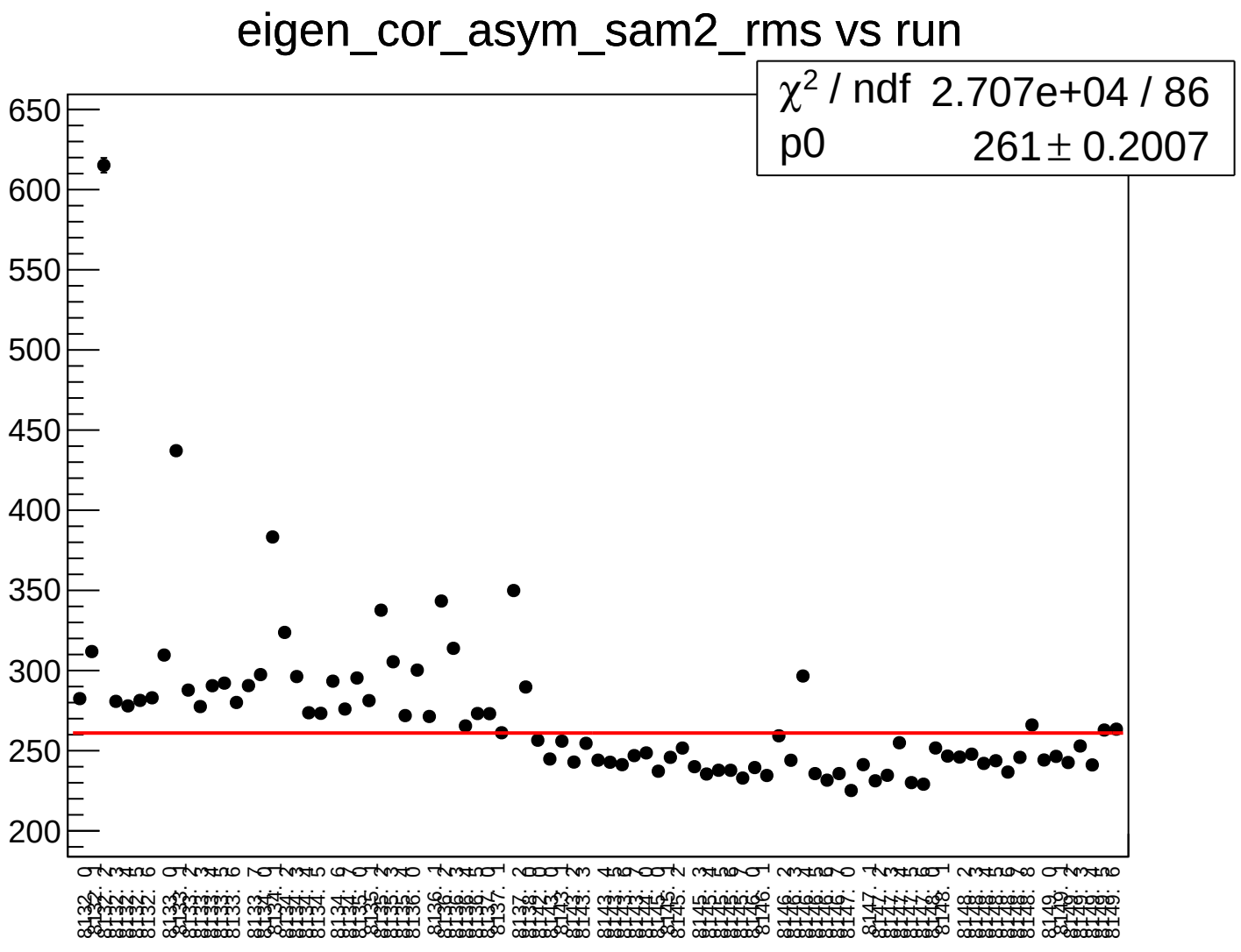

asym_sam2_cor_correction_mean vs run
×10^3
χ^2 / ndf 90.02 / 86
p0 −5060 ± 4777
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean 405.8
Std Dev 0
2
1
0
−1
−2

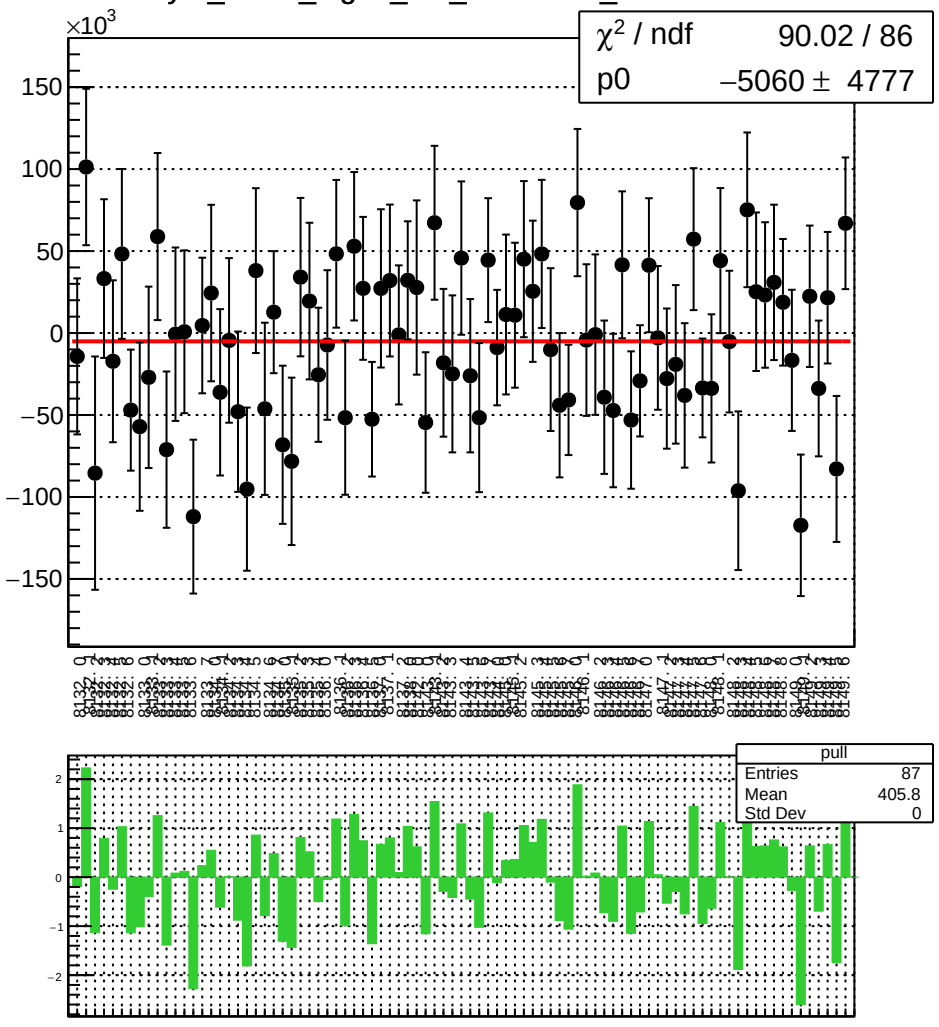

pull1D
Entries 87
Mean 0.003636
Std Dev 1.017
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

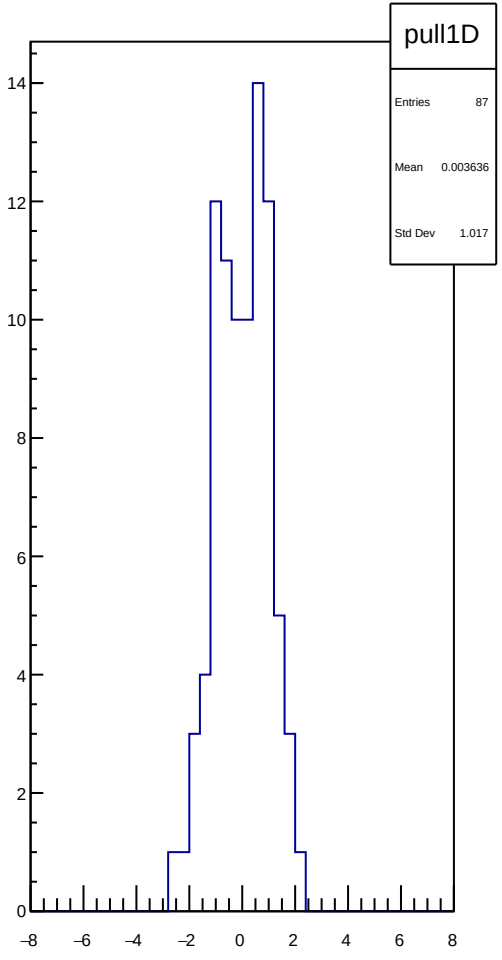

asym_sam2_cor_correction_rms vs run
χ^2 / ndf 9040 / 86
p0 4417 ± 3.378
7000
6500
6000
5500
5000
4500
4000
3500

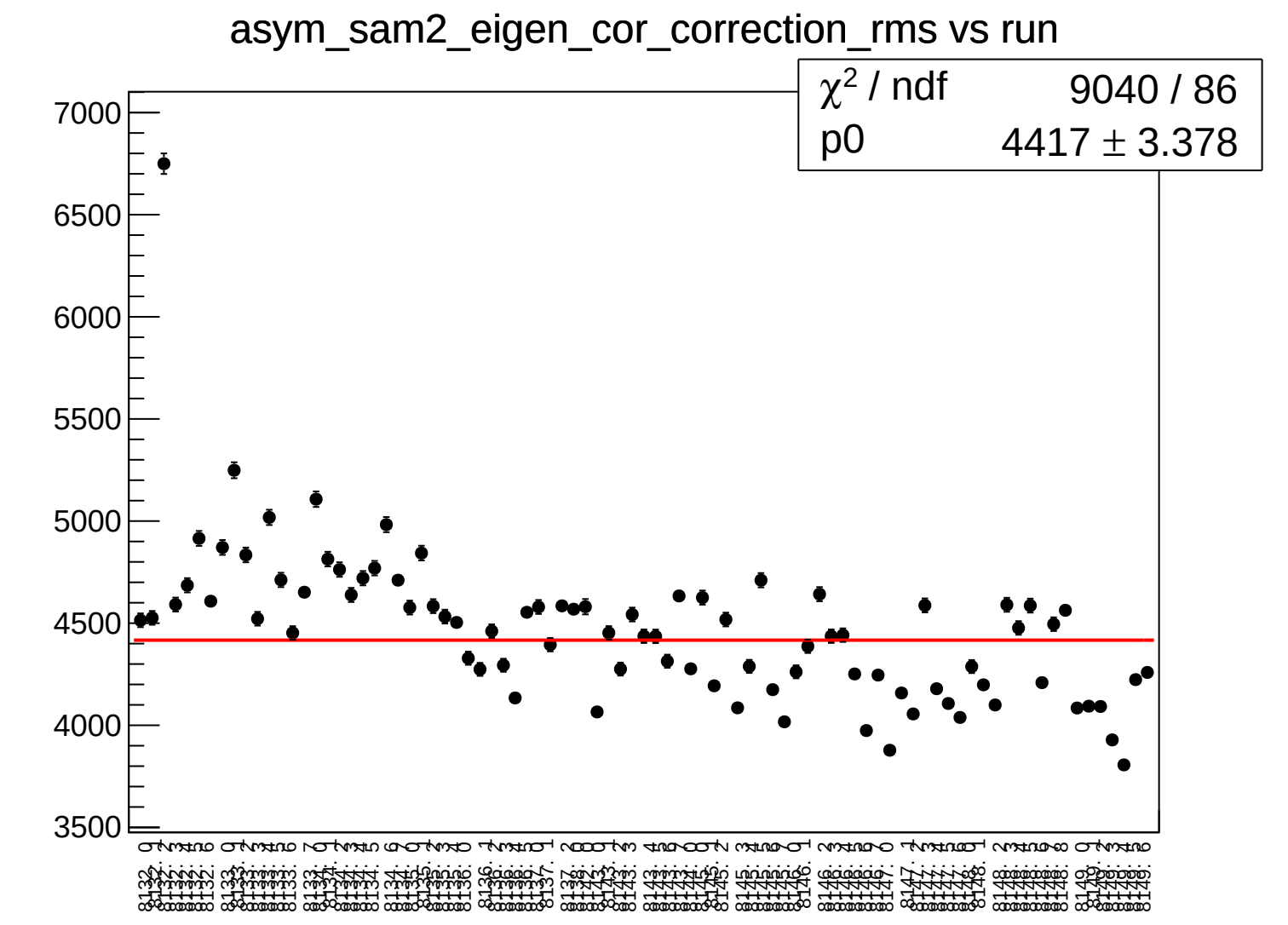

eigen_cor_asym_sam2_mean vs run
χ² / ndf 89.74 / 86
p0 39.62 ± 283.8
10000
5000
0
−5000
−10000
pull
Entries 87
Mean −327.2
Std Dev 0
2
1
0
−1
−2
−3

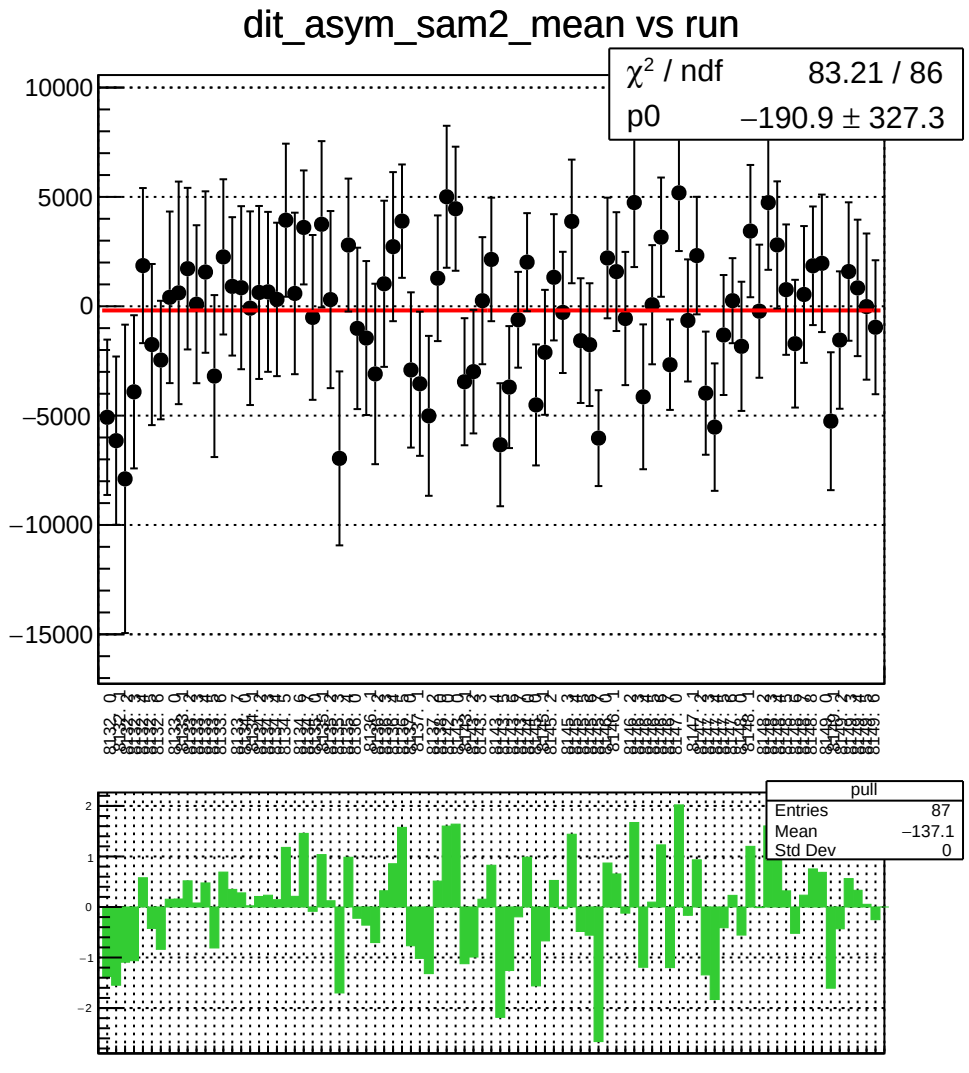

pull1D
Entries 87
Mean −0.008098
Std Dev 1.016
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

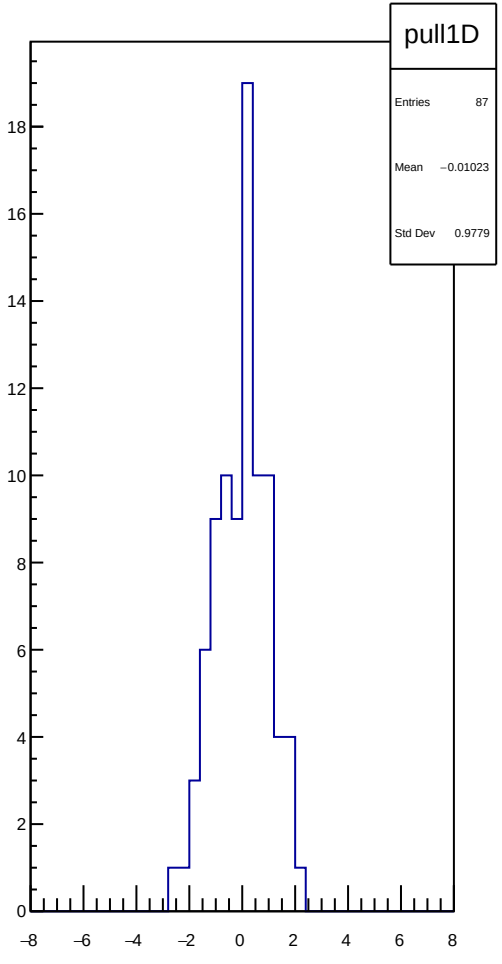

eigen_cor_asym_sam2_rms vs run
χ² / ndf 2.707e+04 / 86
p0 261 ± 0.2007
650
600
550
500
450
400
350
300
250
200

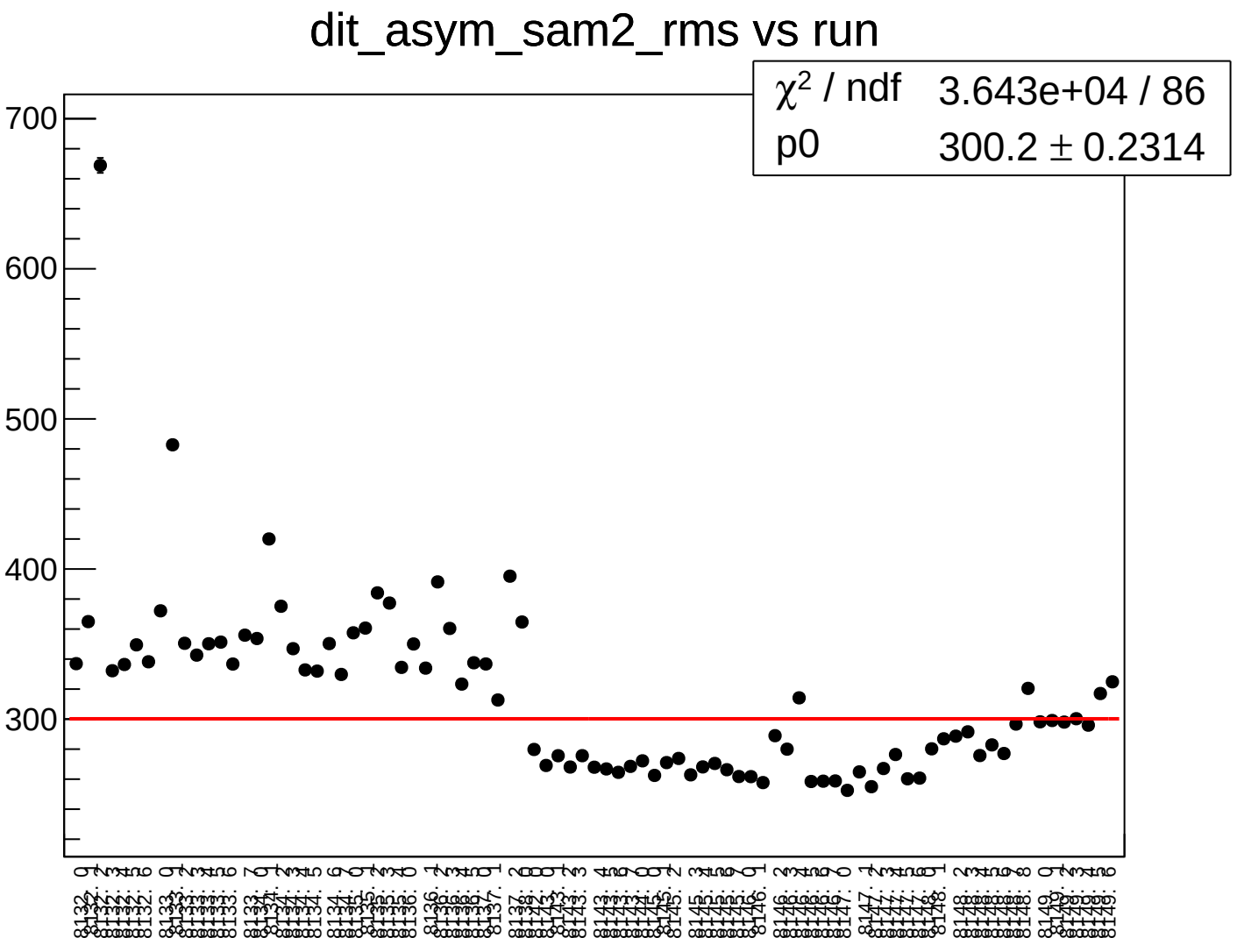

asym_sam2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 90.02 / 86
p0 −5060 ± 4777
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean 405.8
Std Dev 0
2
1
0
−1
−2

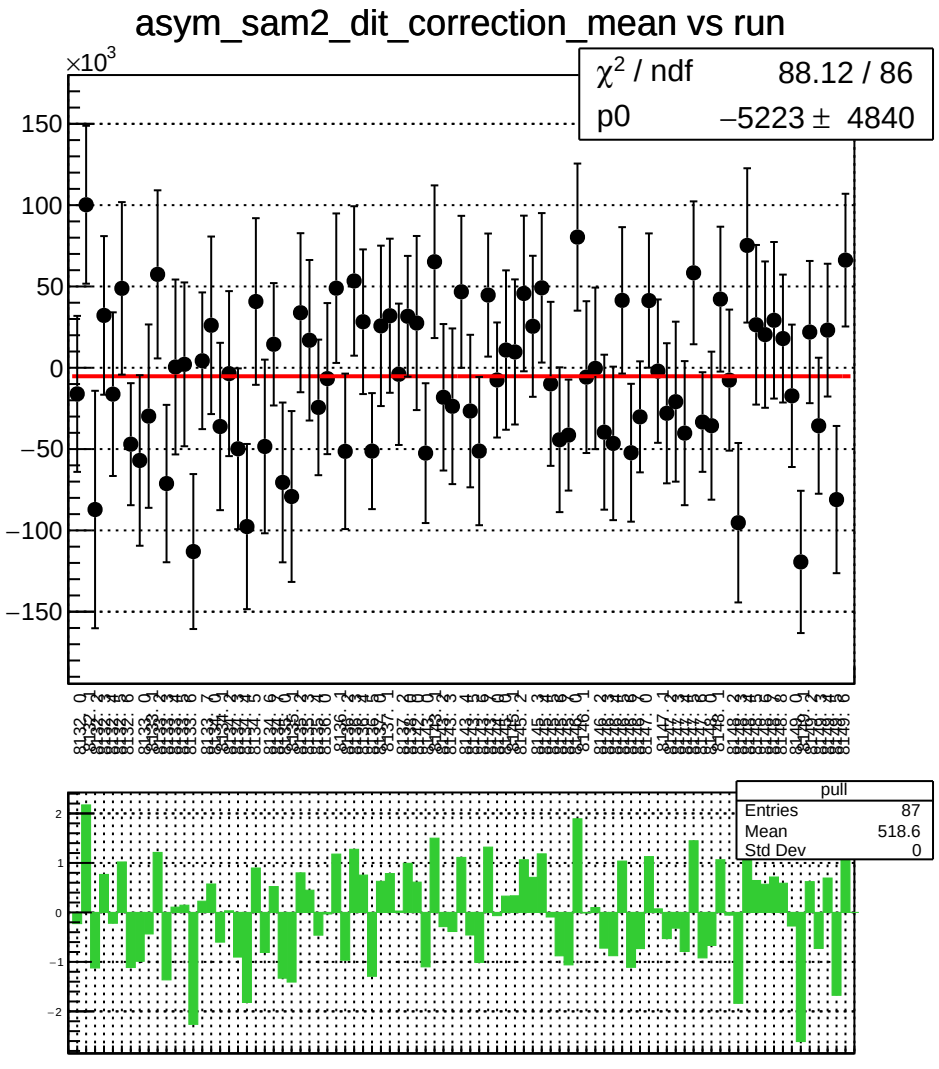

pull1D
Entries 87
Mean 0.003636
Std Dev 1.017
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

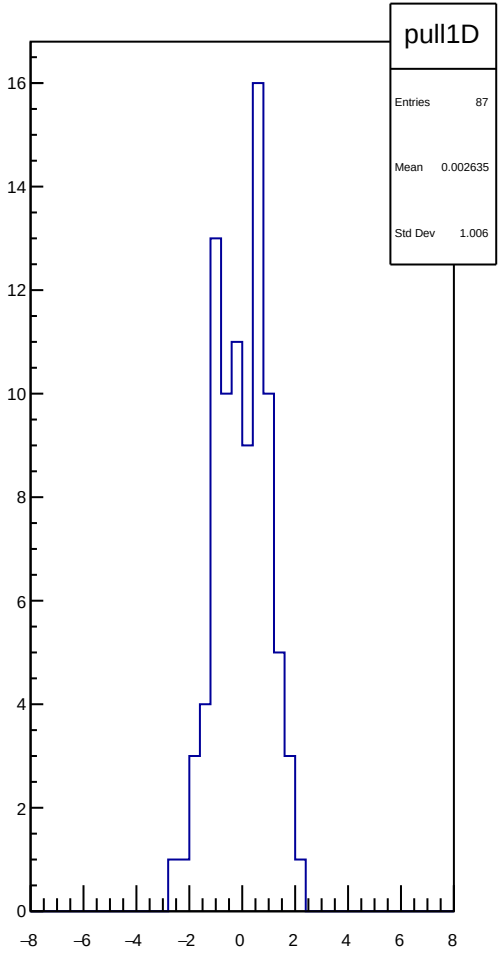

asym_sam2_eigen_cor_correction_rms vs run
χ^2 / ndf 9040 / 86
p0 4417 ± 3.378
7000
6500
6000
5500
5000
4500
4000
3500

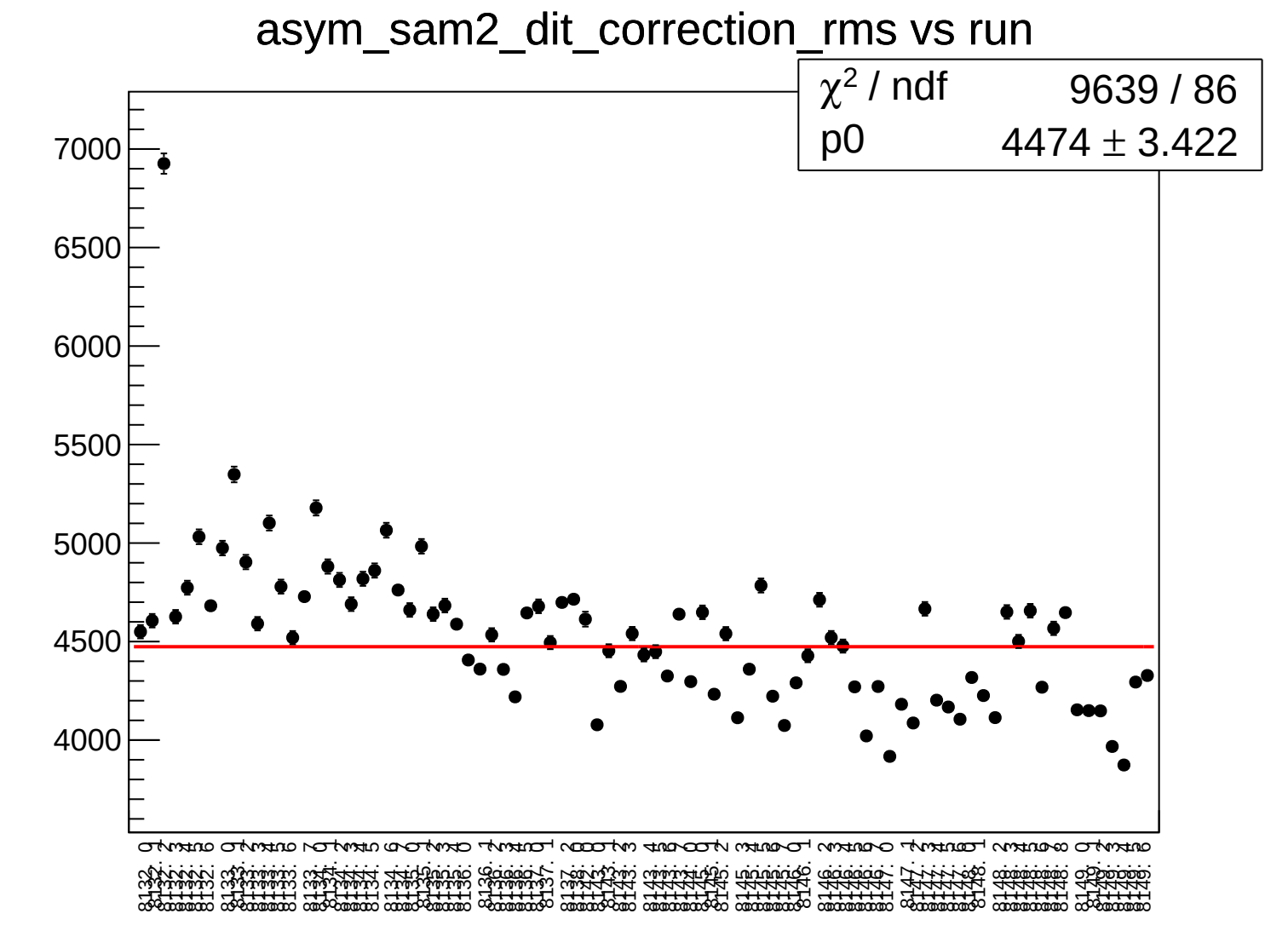

dit_asym_sam2_mean vs run
χ² / ndf 83.21 / 86
p0 −190.9 ± 327.3
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean −137.1
Std Dev 0
2
1
0
−1
−2

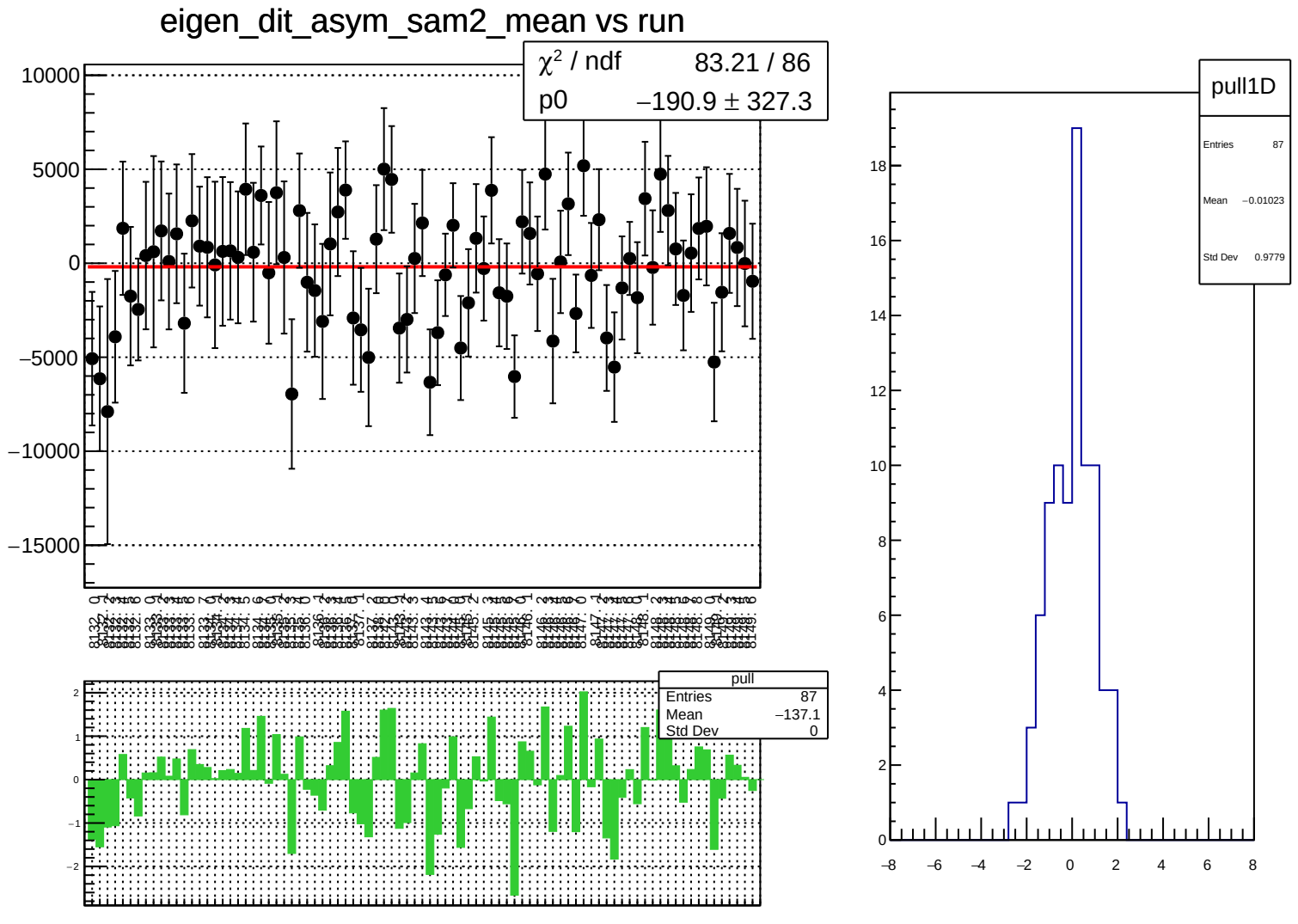

pull1D
Entries 87
Mean −0.01023
Std Dev 0.9779
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

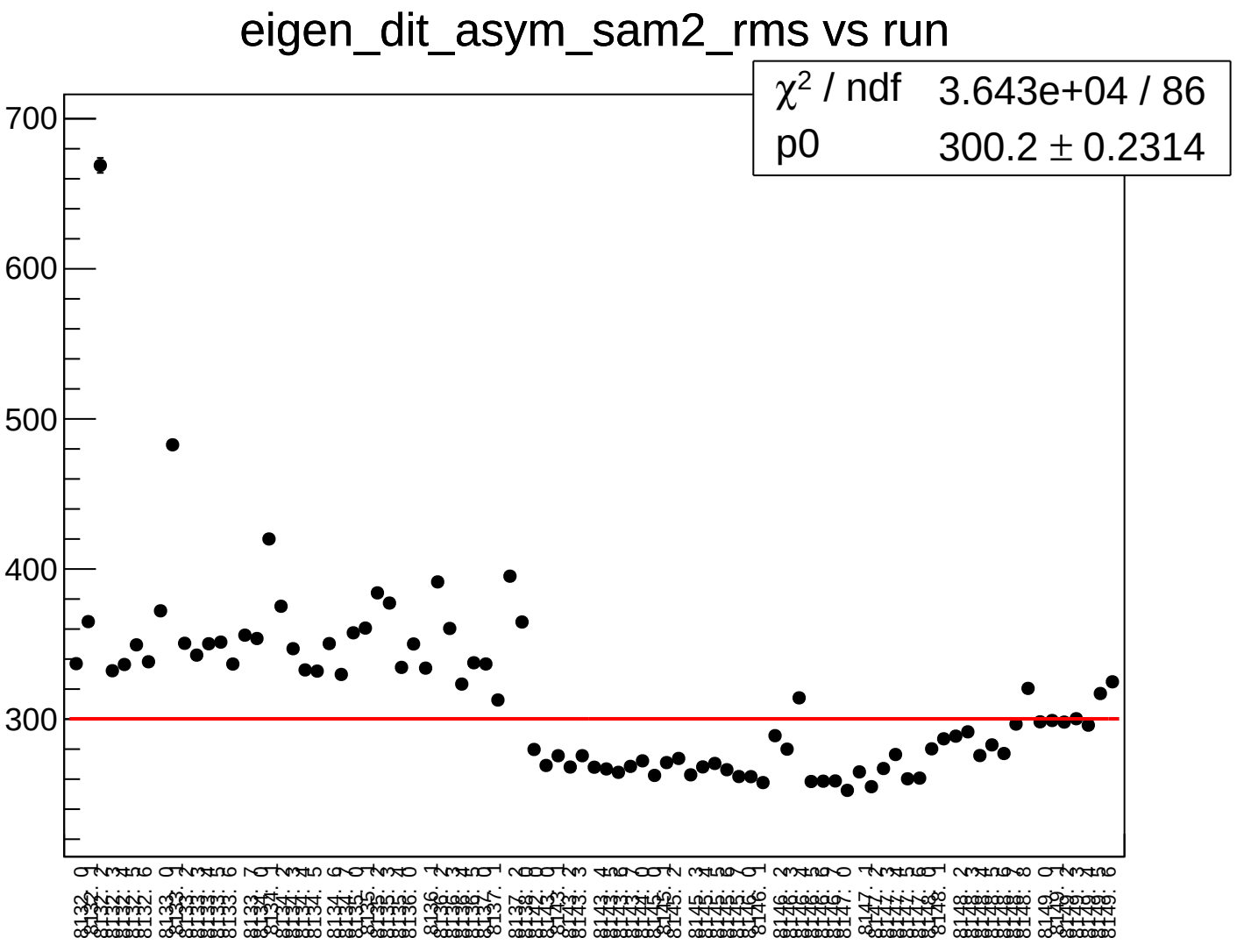

dit_asym_sam2_rms vs run
χ^2 / ndf 3.643e+04 / 86
p0 300.2 ± 0.2314
700
600
500
400
300

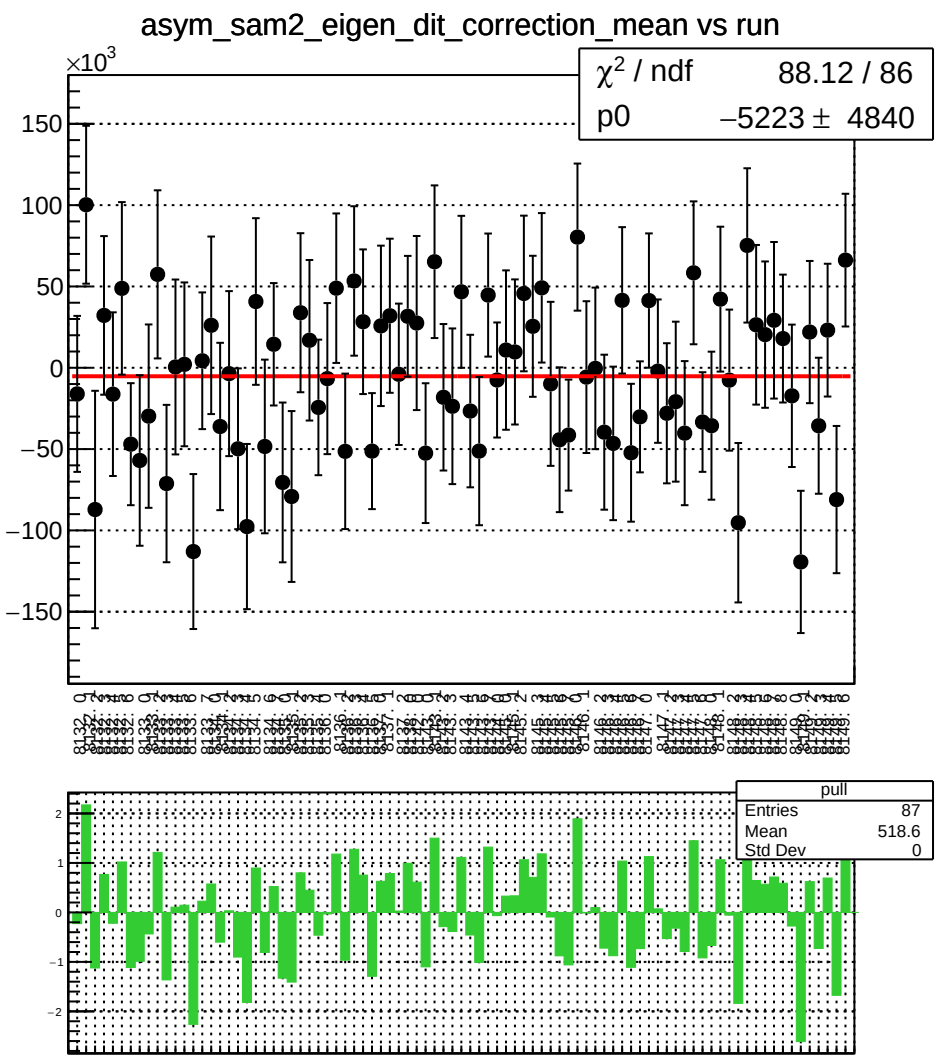

asym_sam2_dit_correction_mean vs run
×10^3
χ² / ndf 88.12 / 86
p0 −5223 ± 4840
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean 518.6
Std Dev 0
2
1
0
−1
−2

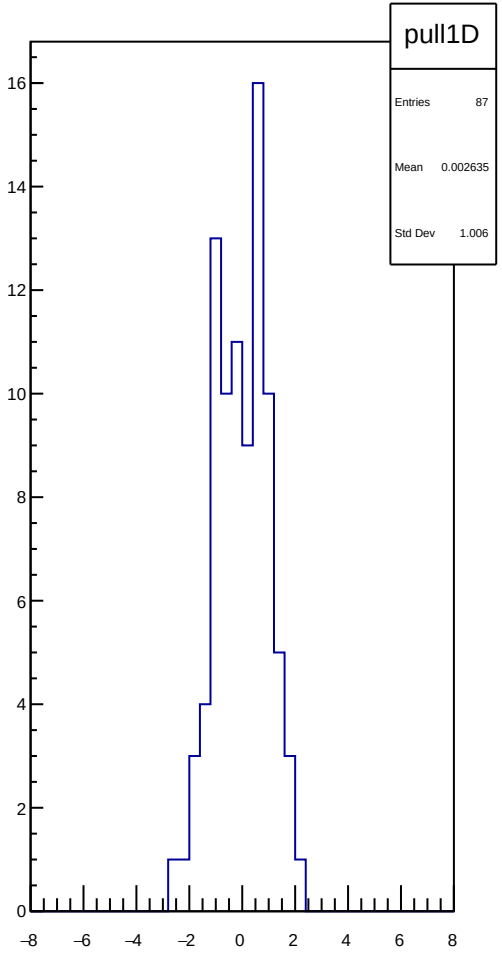

pull1D
Entries 87
Mean 0.002635
Std Dev 1.006
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

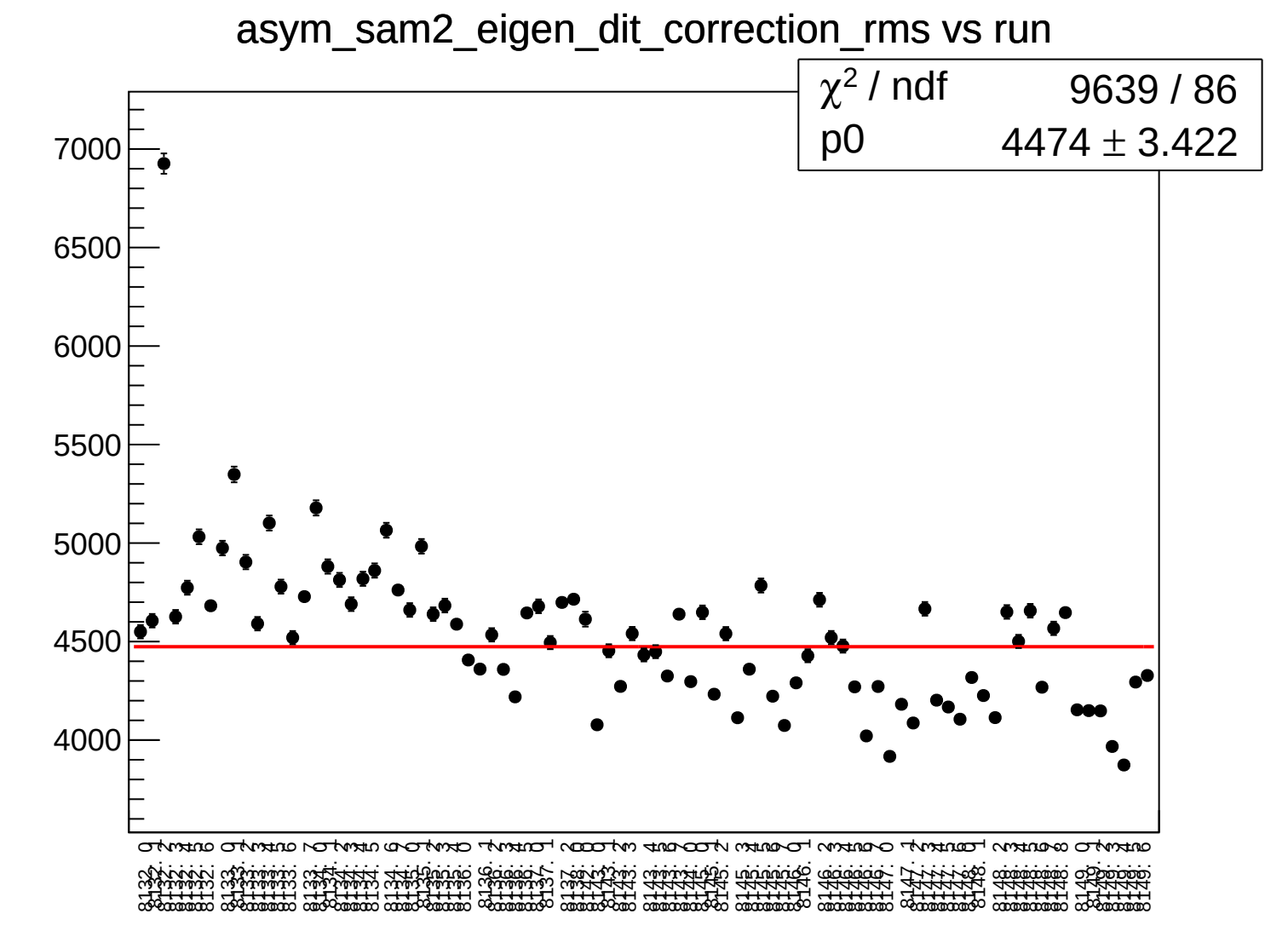

asym_sam2_dit_correction_rms vs run
χ² / ndf 9639 / 86
p0 4474 ± 3.422
7000
6500
6000
5500
5000
4500
4000

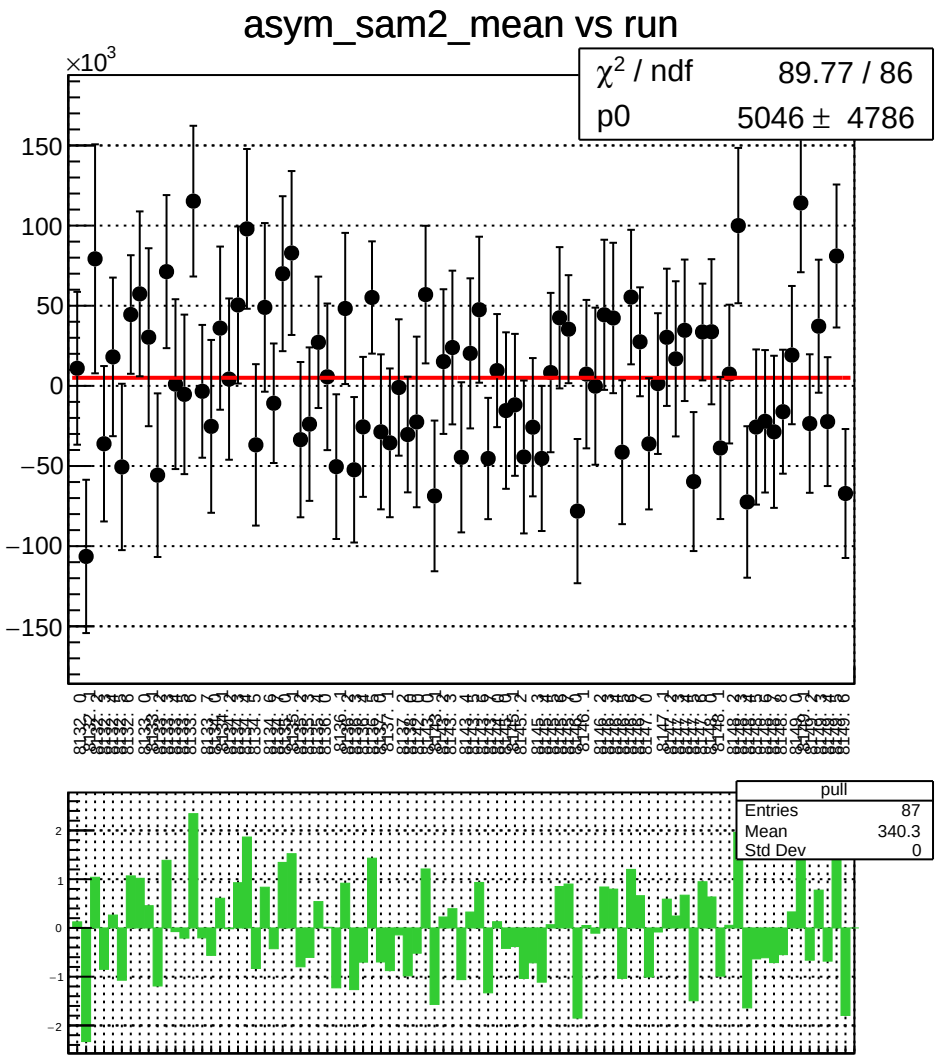

eigen_dit_asym_sam2_mean vs run
χ² / ndf 83.21 / 86
p0 −190.9 ± 327.3
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean −137.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.01023
Std Dev 0.9779
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

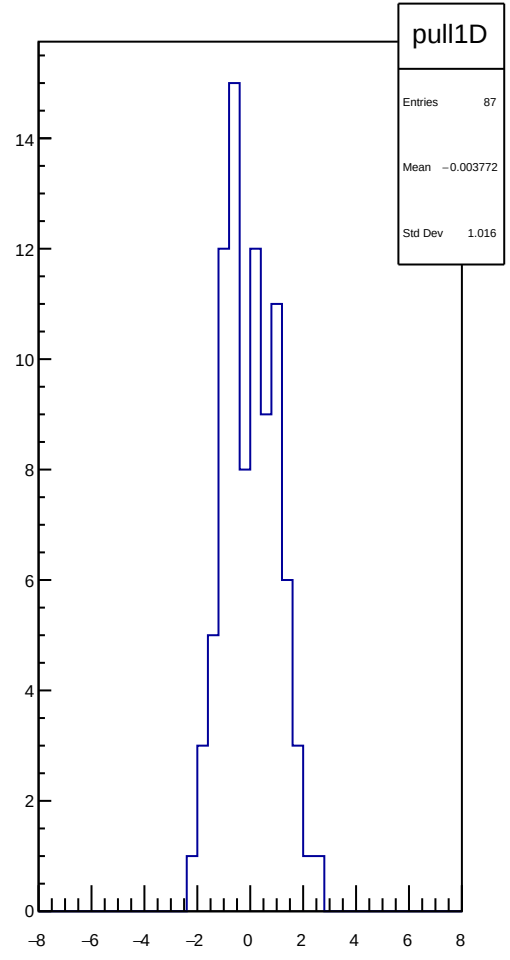

eigen_dit_asym_sam2_rms vs run
χ² / ndf 3.643e+04 / 86
p0 300.2 ± 0.2314
700
600
500
400
300

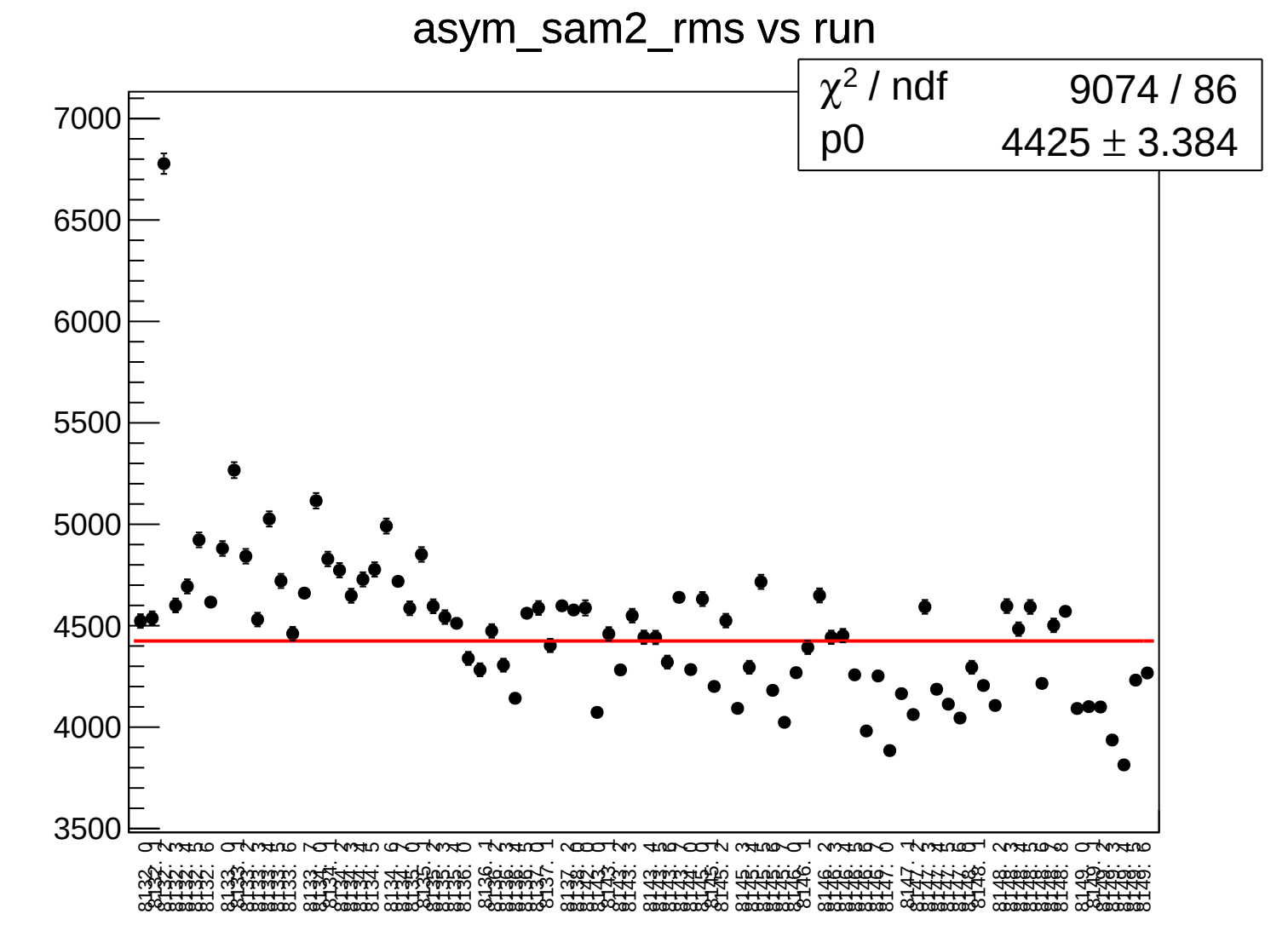

asym_sam2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 88.12 / 86
p0 −5223 ± 4840
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean 518.6
Std Dev 0
2
1
0
−1
−2

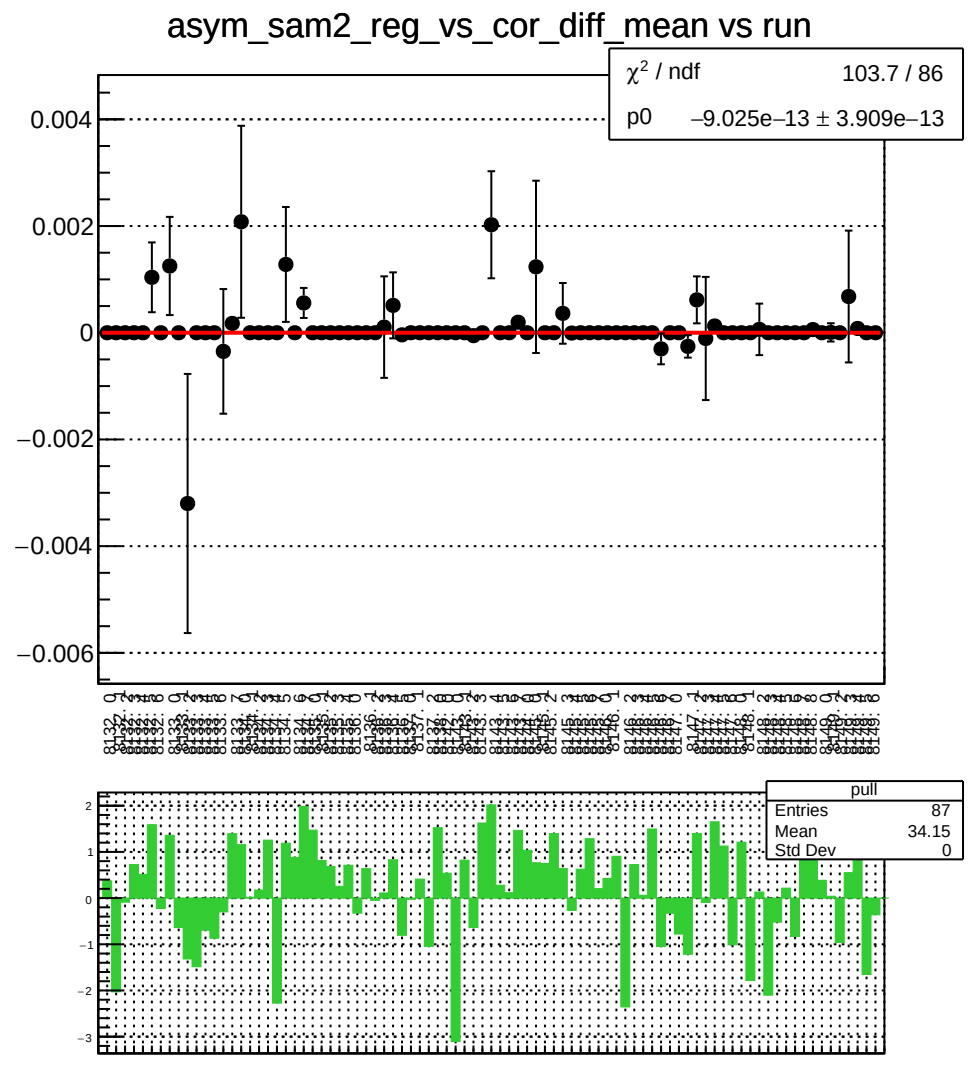

pull1D
Entries 87
Mean 0.002635
Std Dev 1.006
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

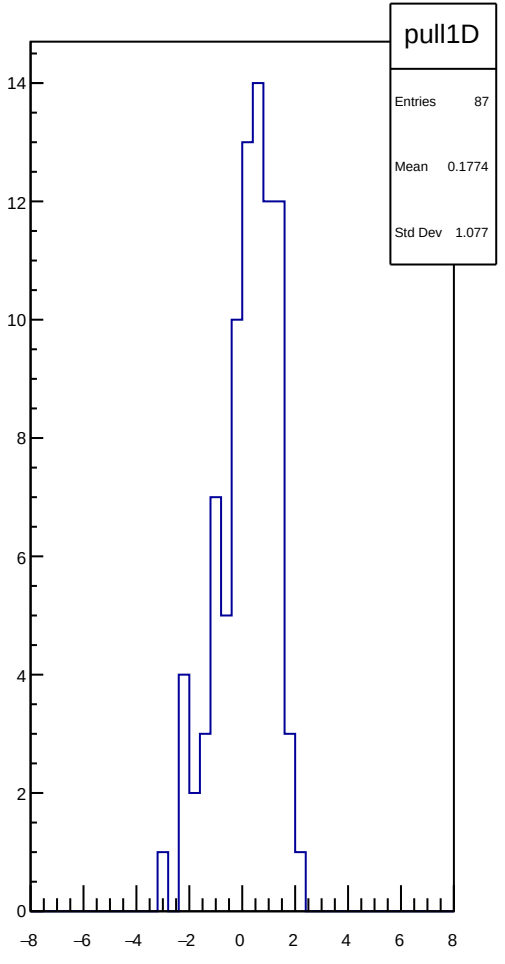

asym_sam2_eigen_dit_correction_rms vs run
χ² / ndf 9639 / 86
p0 4474 ± 3.422
7000
6500
6000
5500
5000
4500
4000

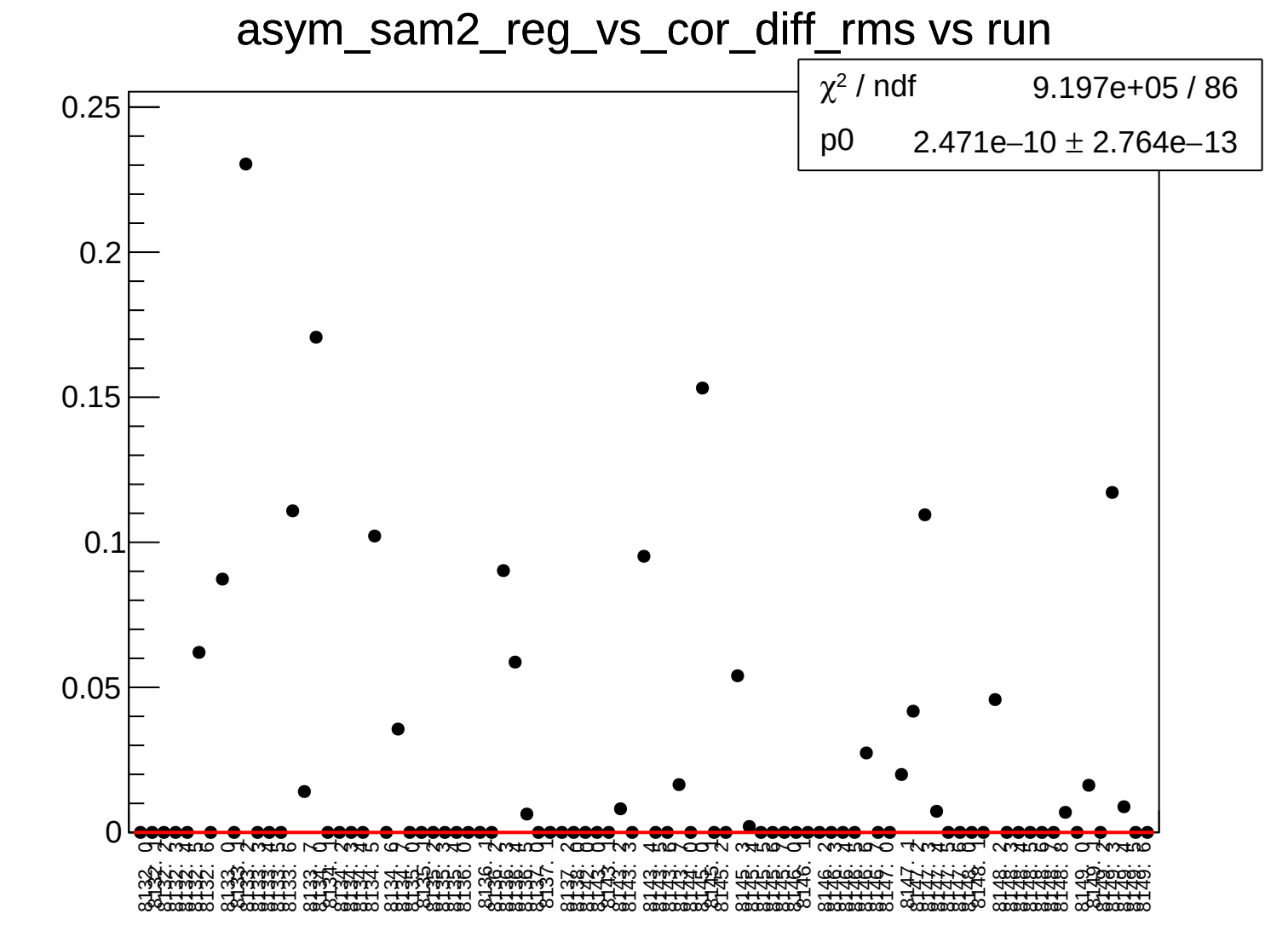

asym_sam2_mean vs run
×10^3
χ^2 / ndf 89.77 / 86
p0 5046 ± 4786
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean 340.3
Std Dev 0
2
1
0
−1
−2

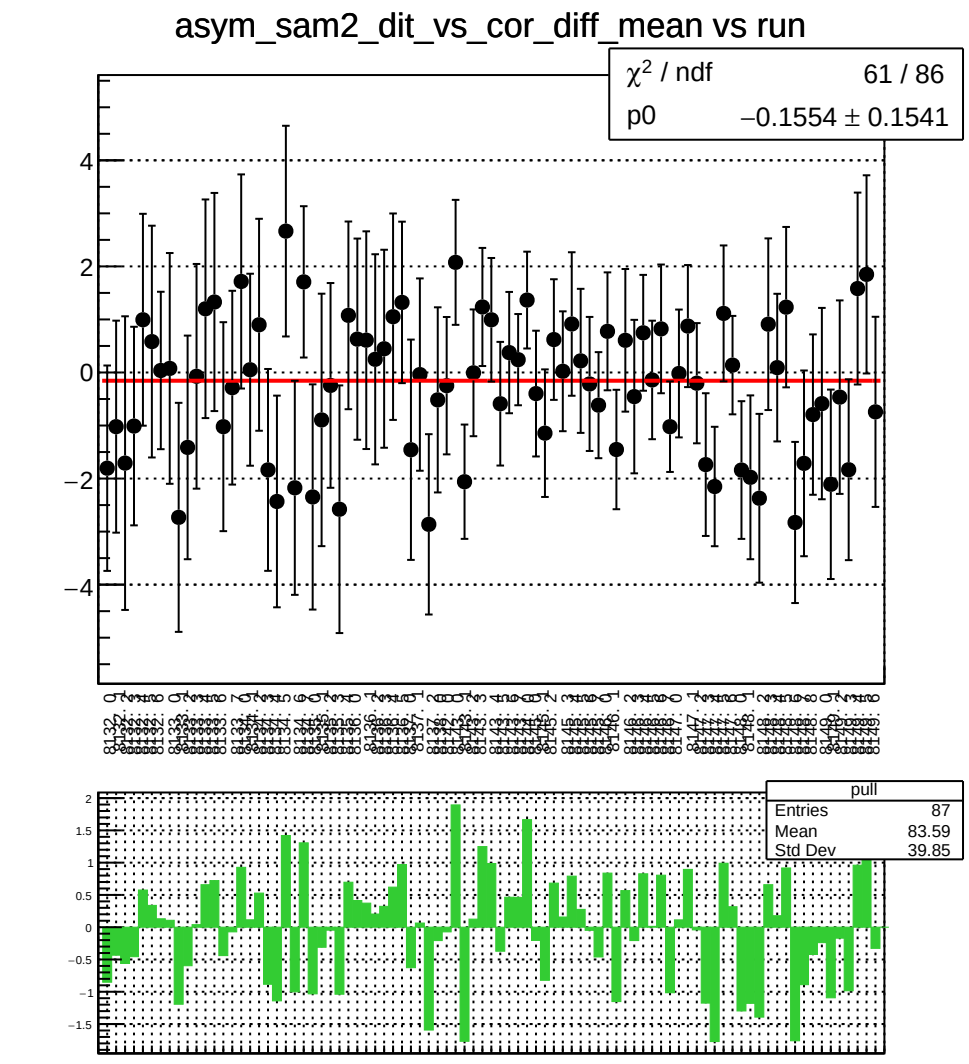

pull1D
Entries 87
Mean −0.003772
Std Dev 1.016
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

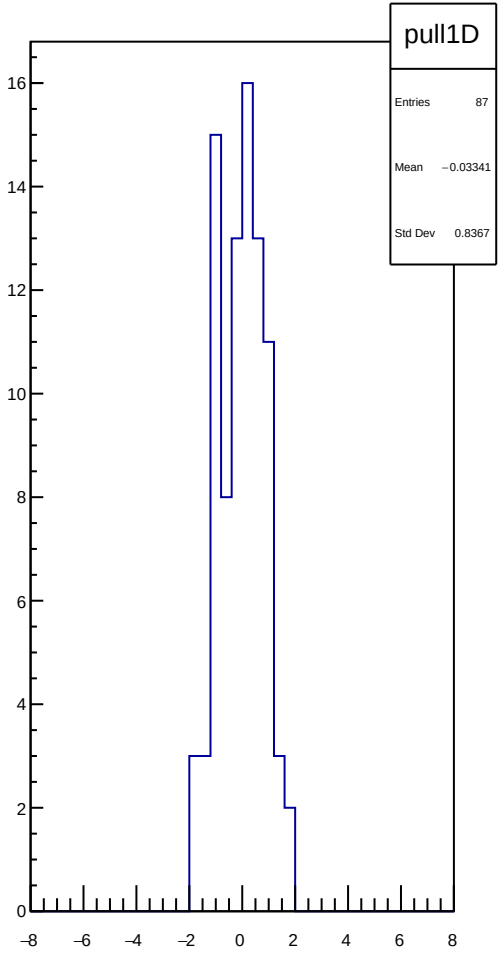

asym_sam2_rms vs run
χ^2 / ndf 9074 / 86
p0 4425 ± 3.384
7000
6500
6000
5500
5000
4500
4000
3500

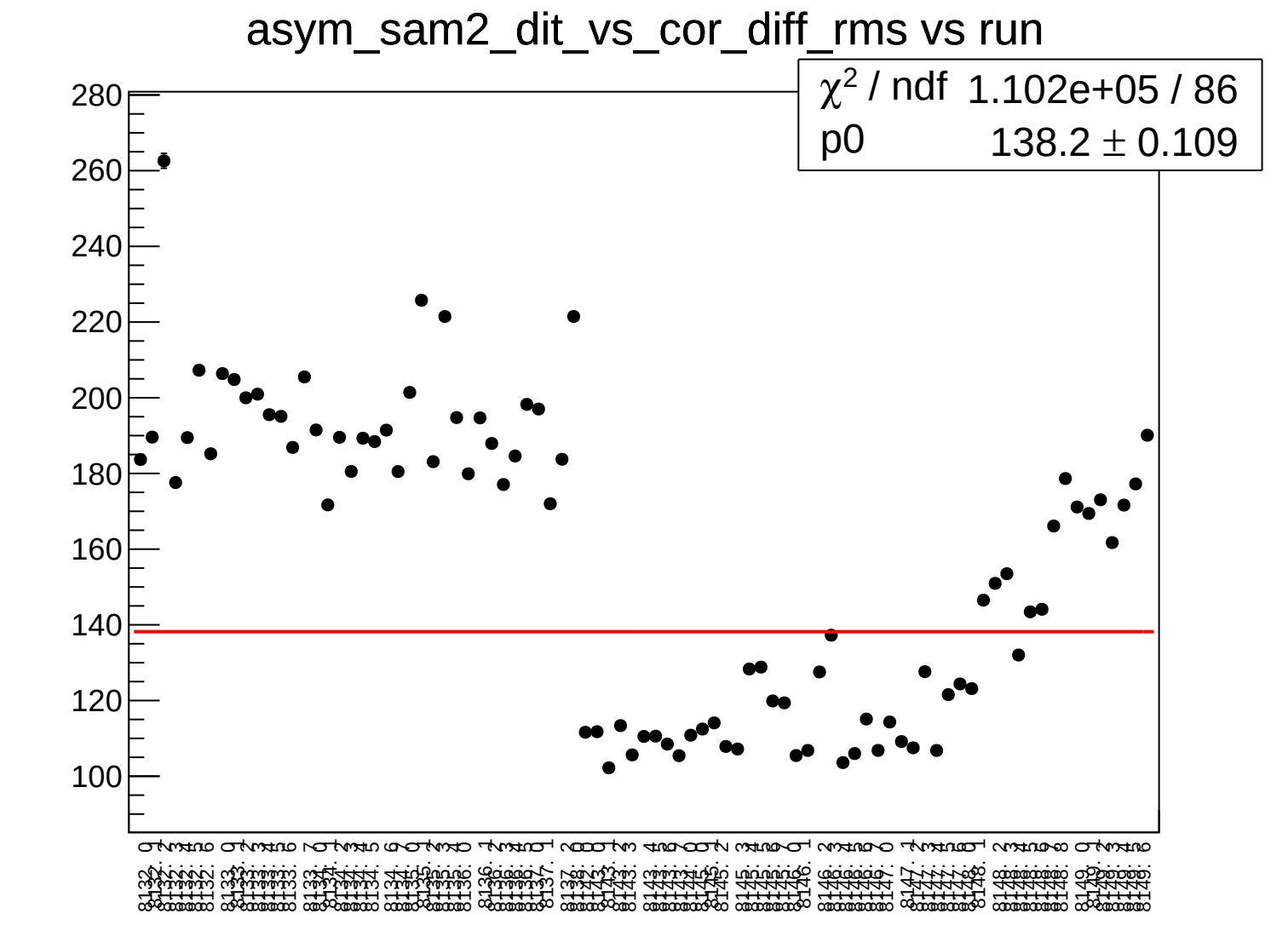

asym_sam2_reg_vs_cor_diff_mean vs run
χ² / ndf 103.7 / 86
p0 −9.025e−13 ± 3.909e−13
0.004
0.002
0
−0.002
−0.004
−0.006
pull
Entries 87
Mean 34.15
Std Dev 0
2
1
0
−1
−2
−3

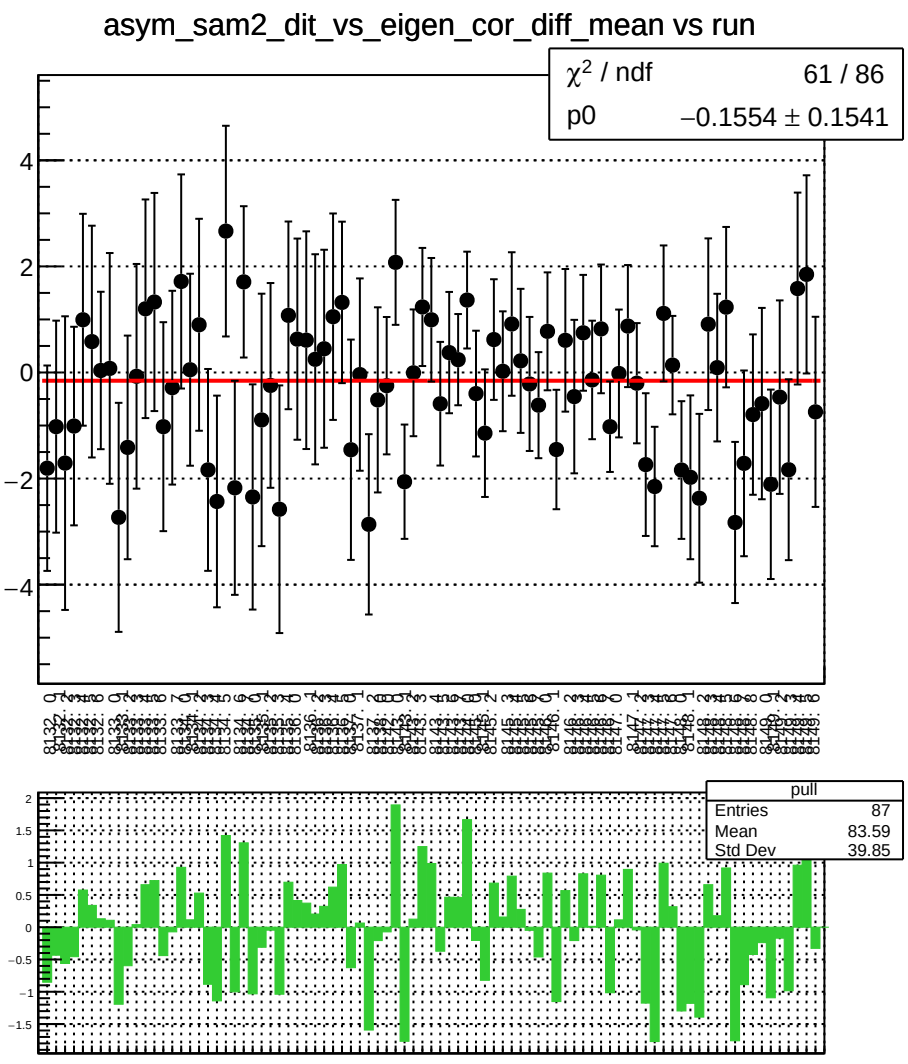

pull1D
Entries 87
Mean 0.1774
Std Dev 1.077
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

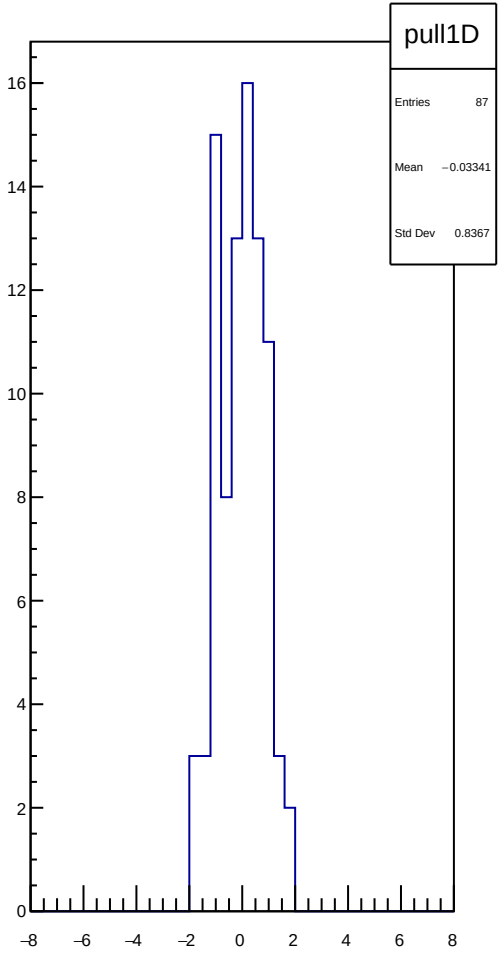

asym_sam2_reg_vs_cor_diff_rms vs run
χ² / ndf 9.197e+05 / 86
p0 2.471e−10 ± 2.764e−13
0.25
0.2
0.15
0.1
0.05
0

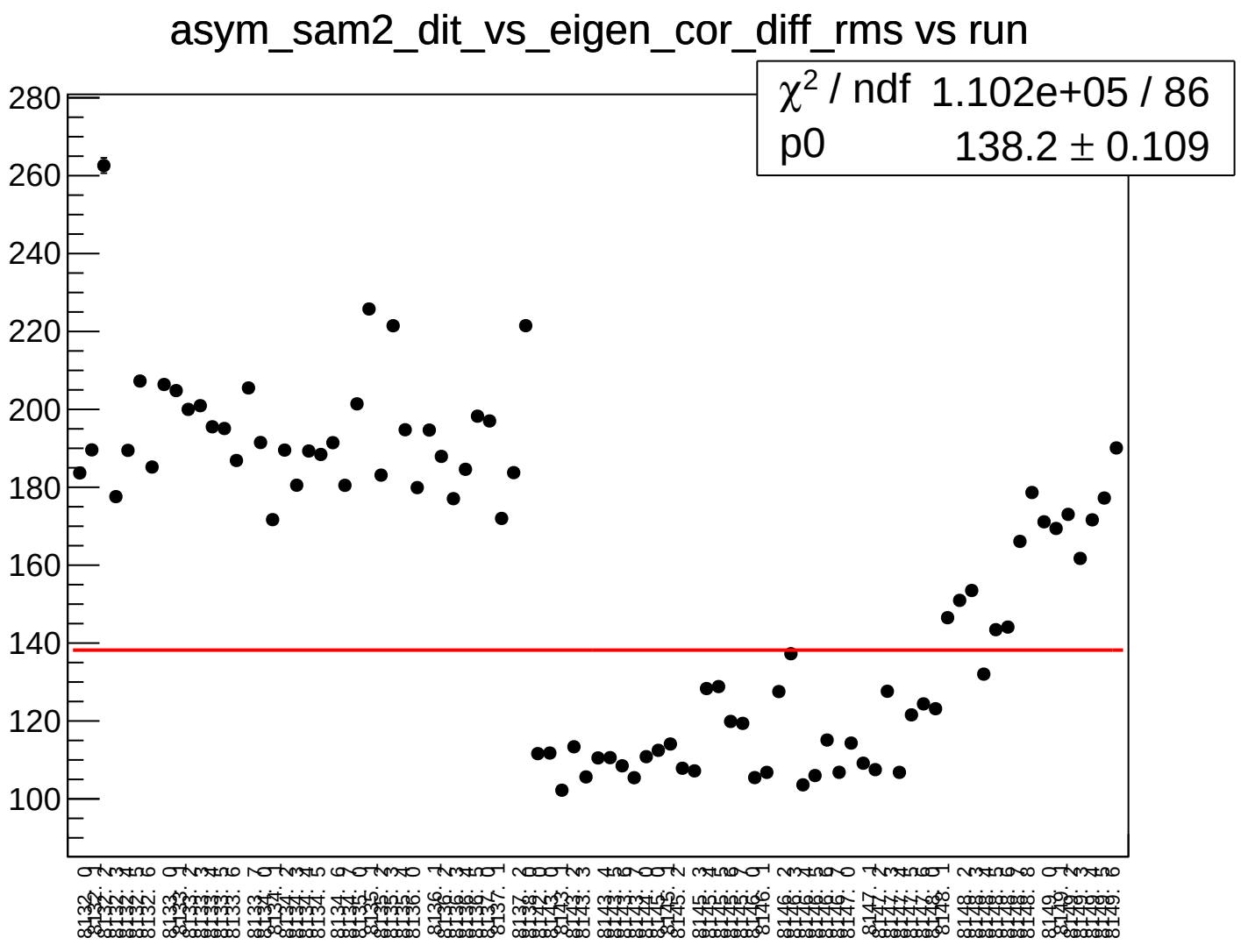

asym_sam2_dit_vs_cor_diff_mean vs run
χ² / ndf 61 / 86
p0 −0.1554 ± 0.1541
pull
Entries 87
Mean 83.59
Std Dev 39.85

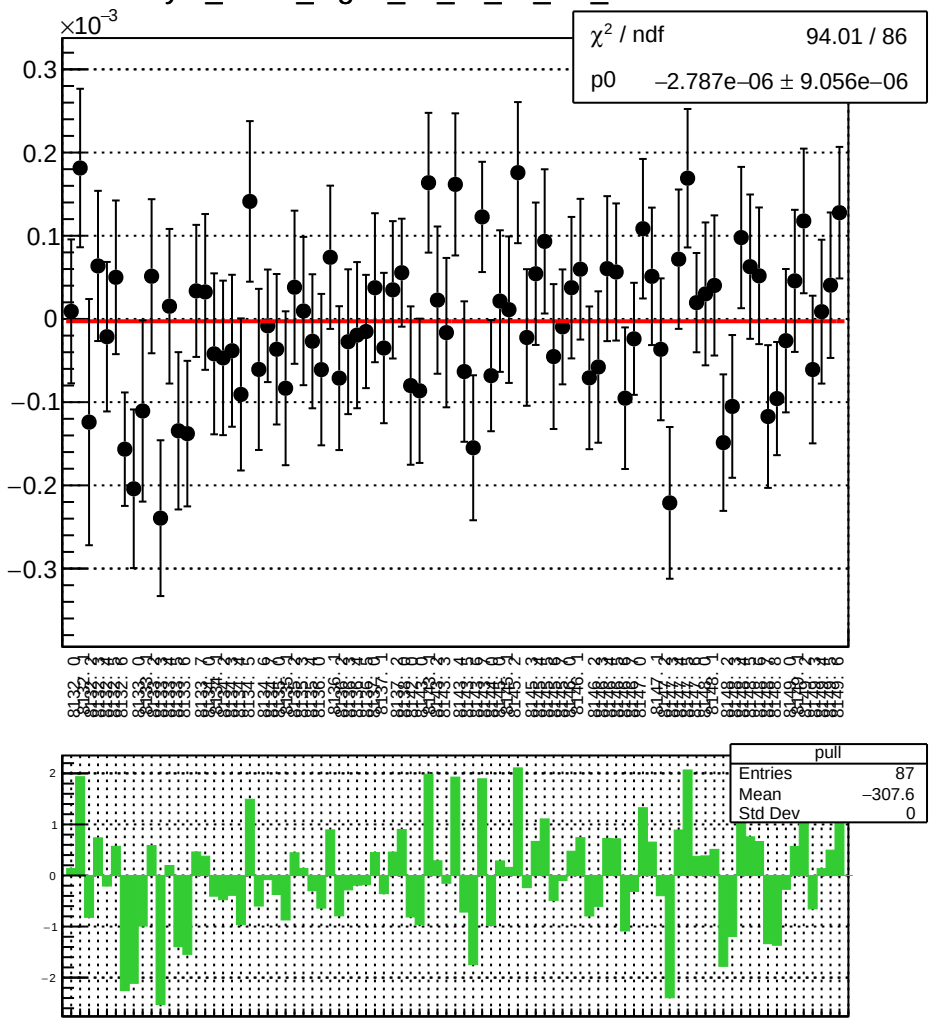

pull1D
Entries 87
Mean −0.03341
Std Dev 0.8367

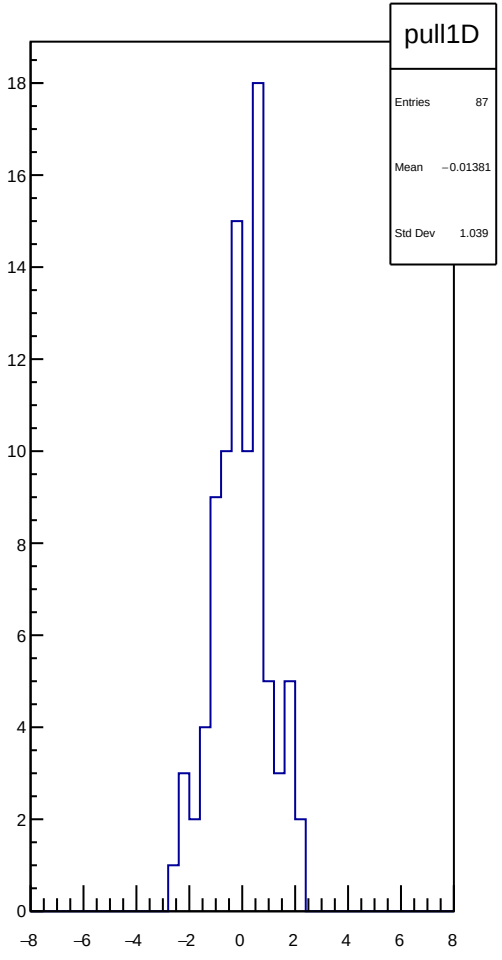

asym_sam2_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.102e+05 / 86
p0 138.2 ± 0.109
280
260
240
220
200
180
160
140
120
100

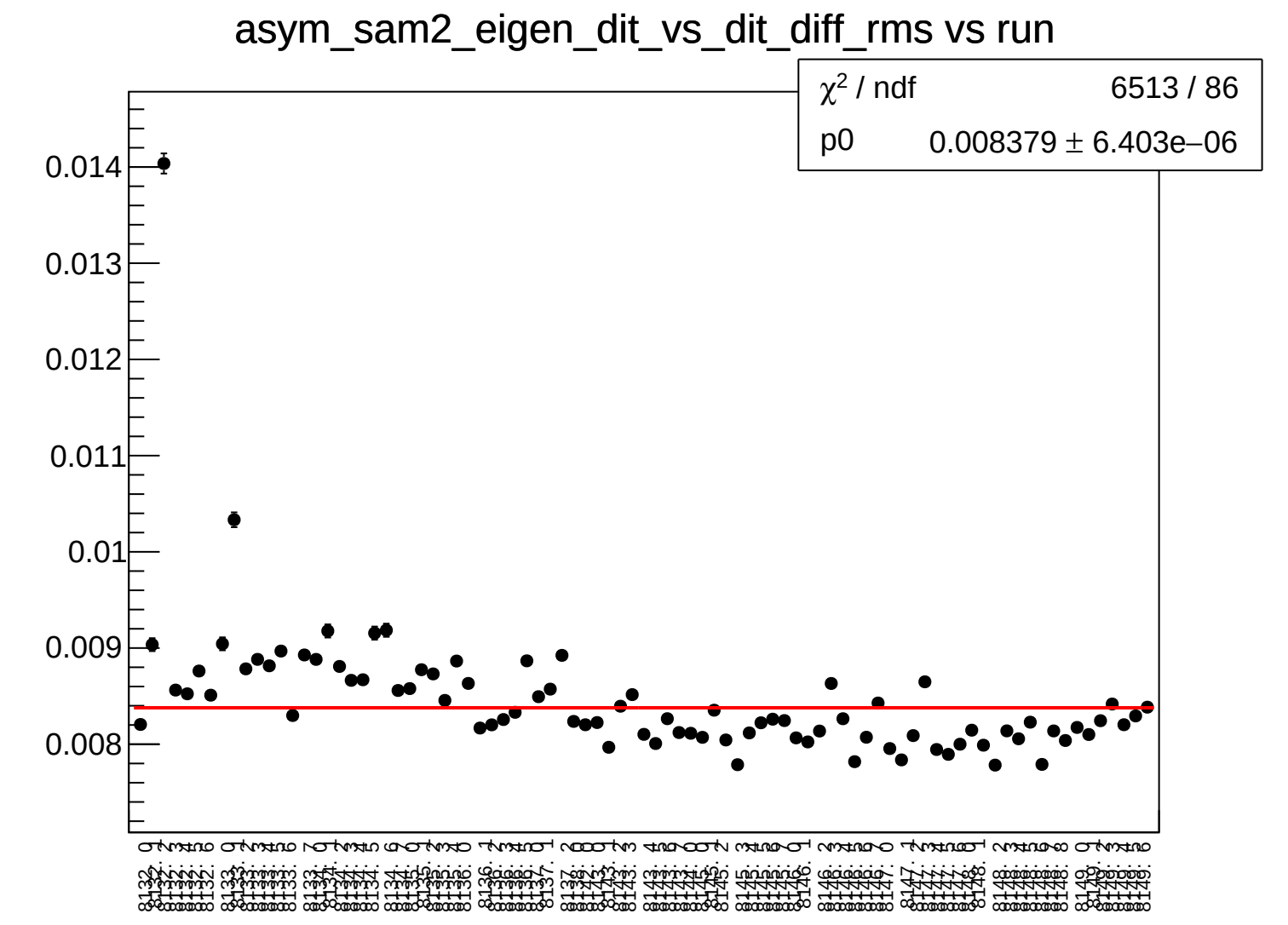

asym_sam2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 61 / 86
p0 −0.1554 ± 0.1541
pull
Entries 87
Mean 83.59
Std Dev 39.85

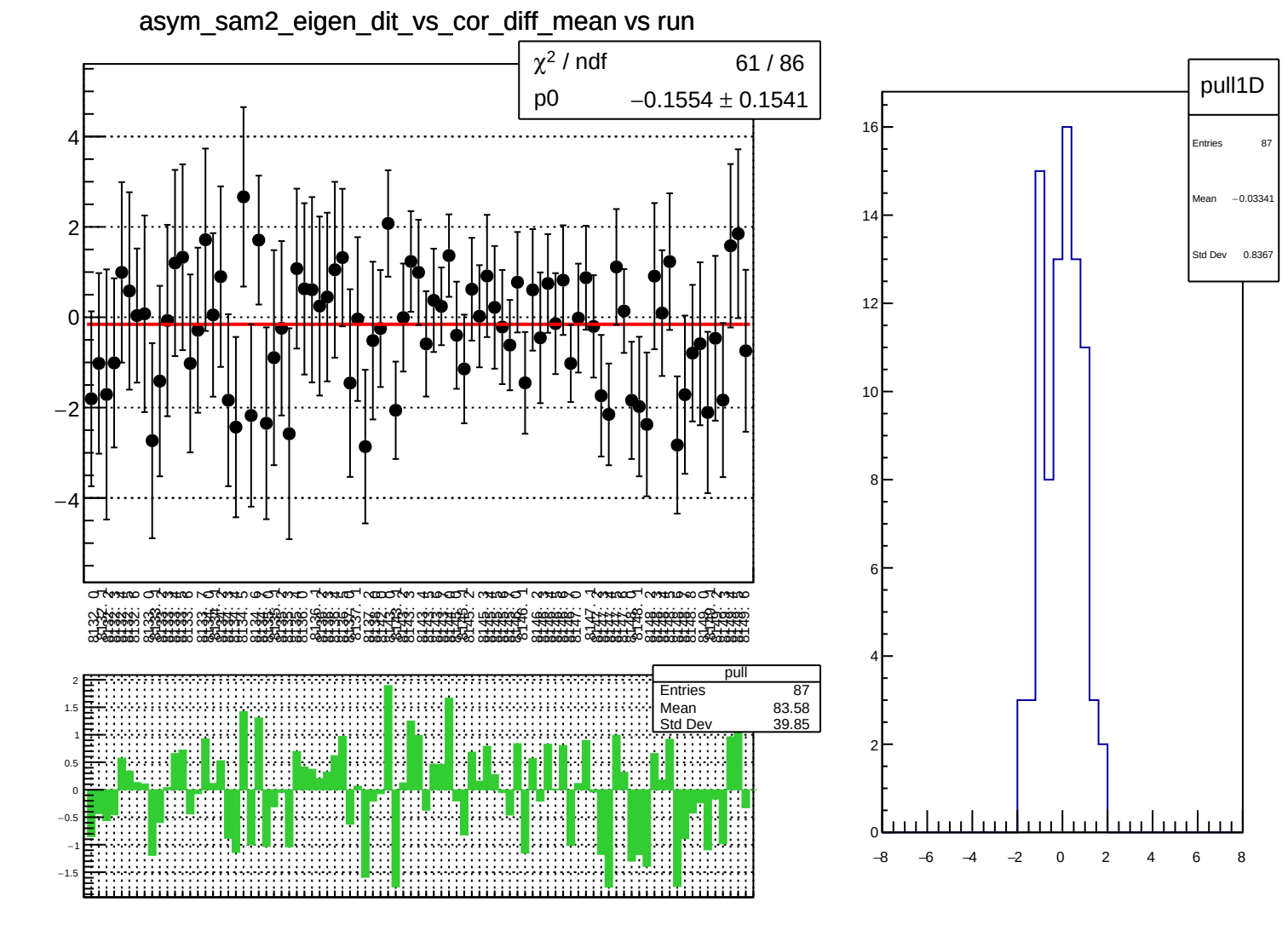

pull1D
Entries 87
Mean −0.03341
Std Dev 0.8367

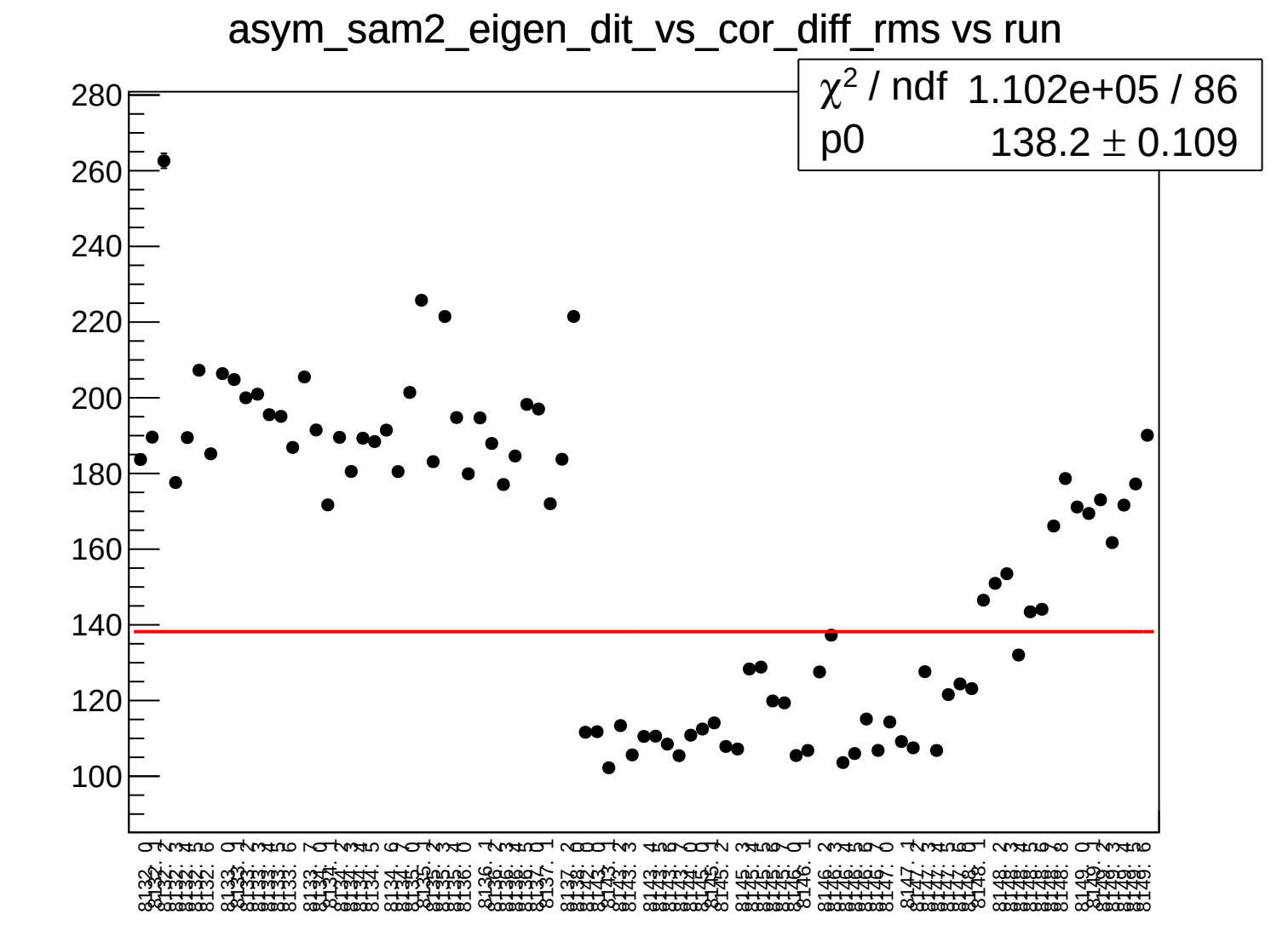

asym_sam2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.102e+05 / 86
p0 138.2 ± 0.109
280
260
240
220
200
180
160
140
120
100

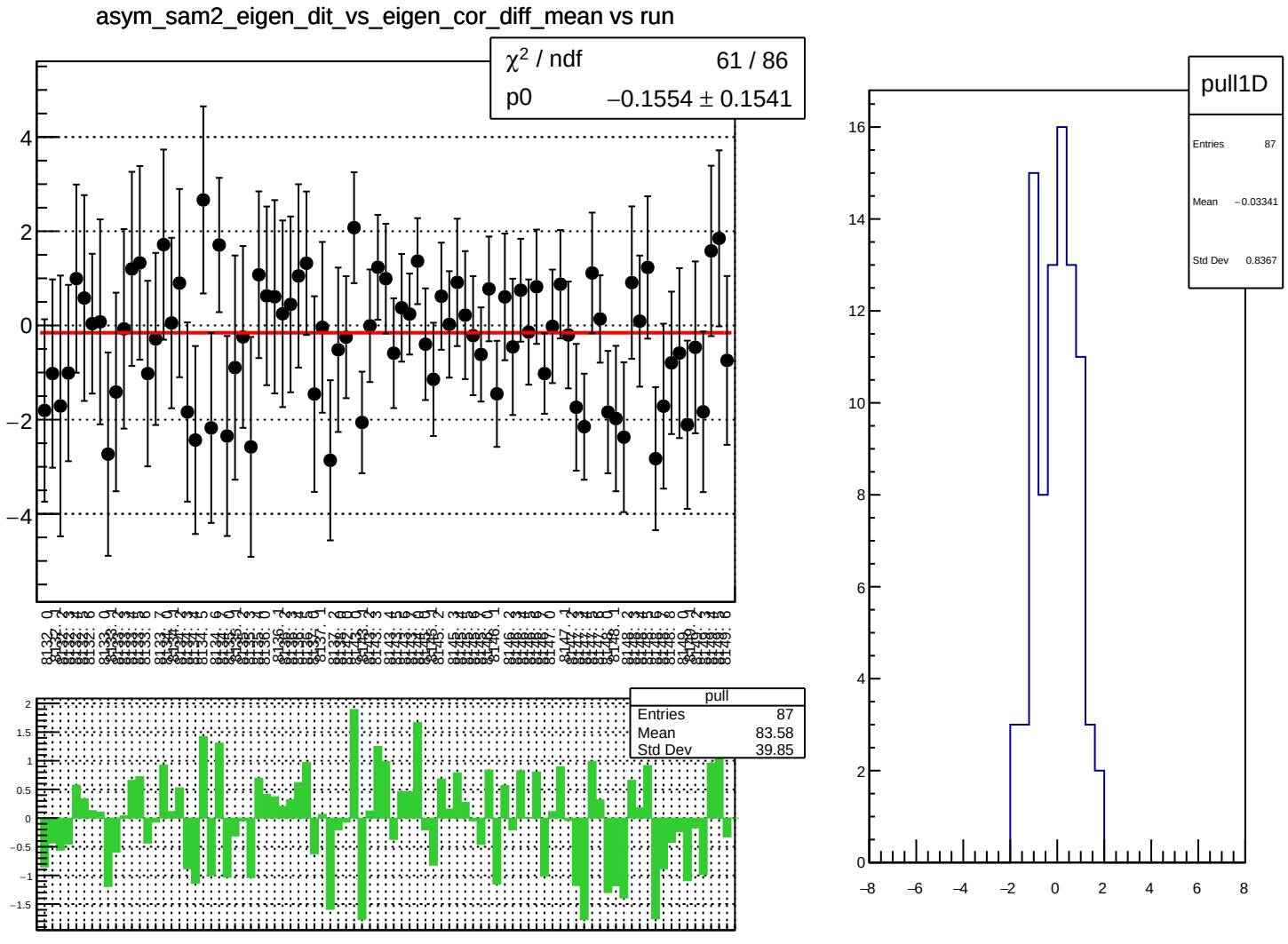

asym_sam2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 94.01 / 86
p0 −2.787e−06 ± 9.056e−06
pull
Entries 87
Mean −307.6
Std Dev 0

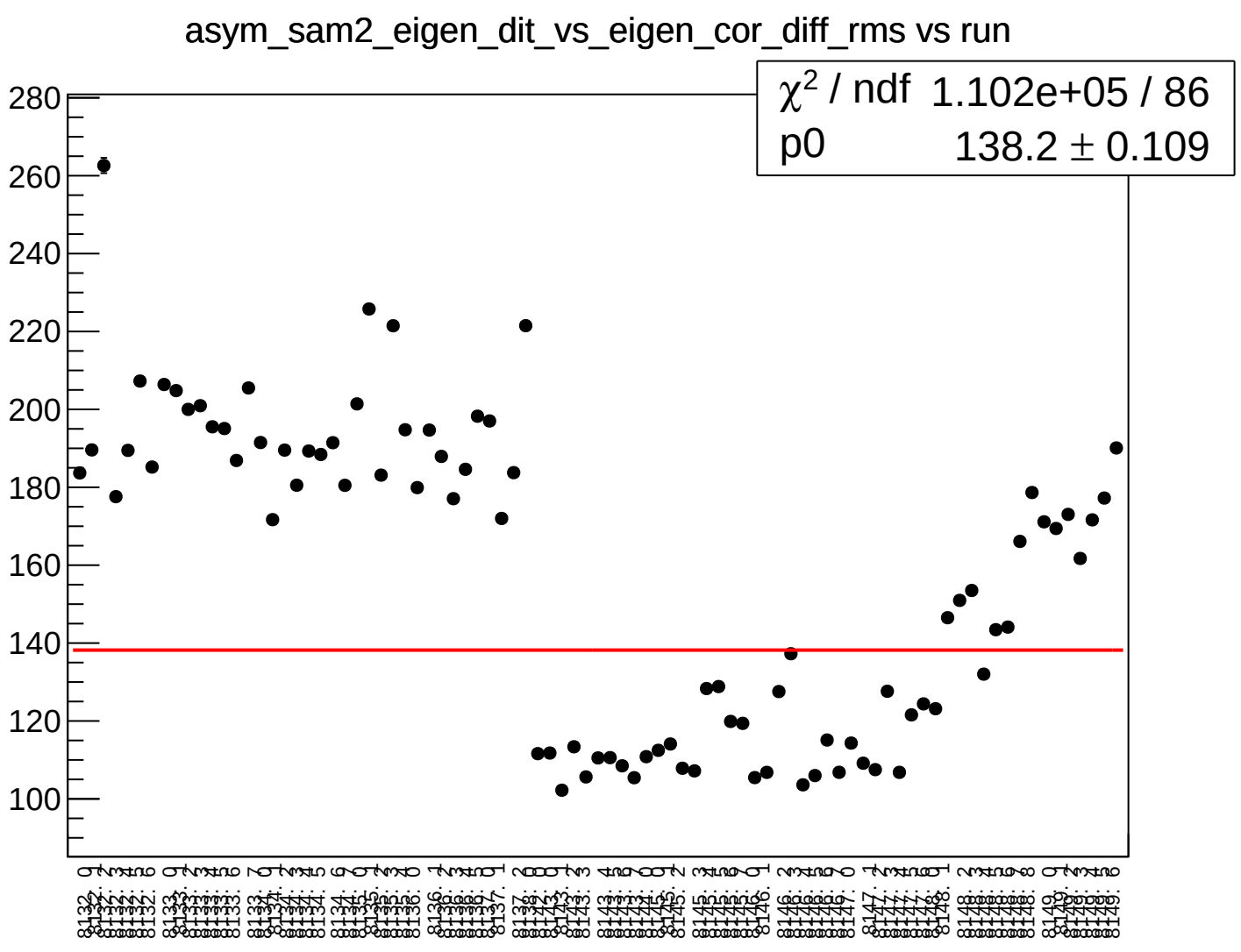

pull1D
Entries 87
Mean −0.01381
Std Dev 1.039

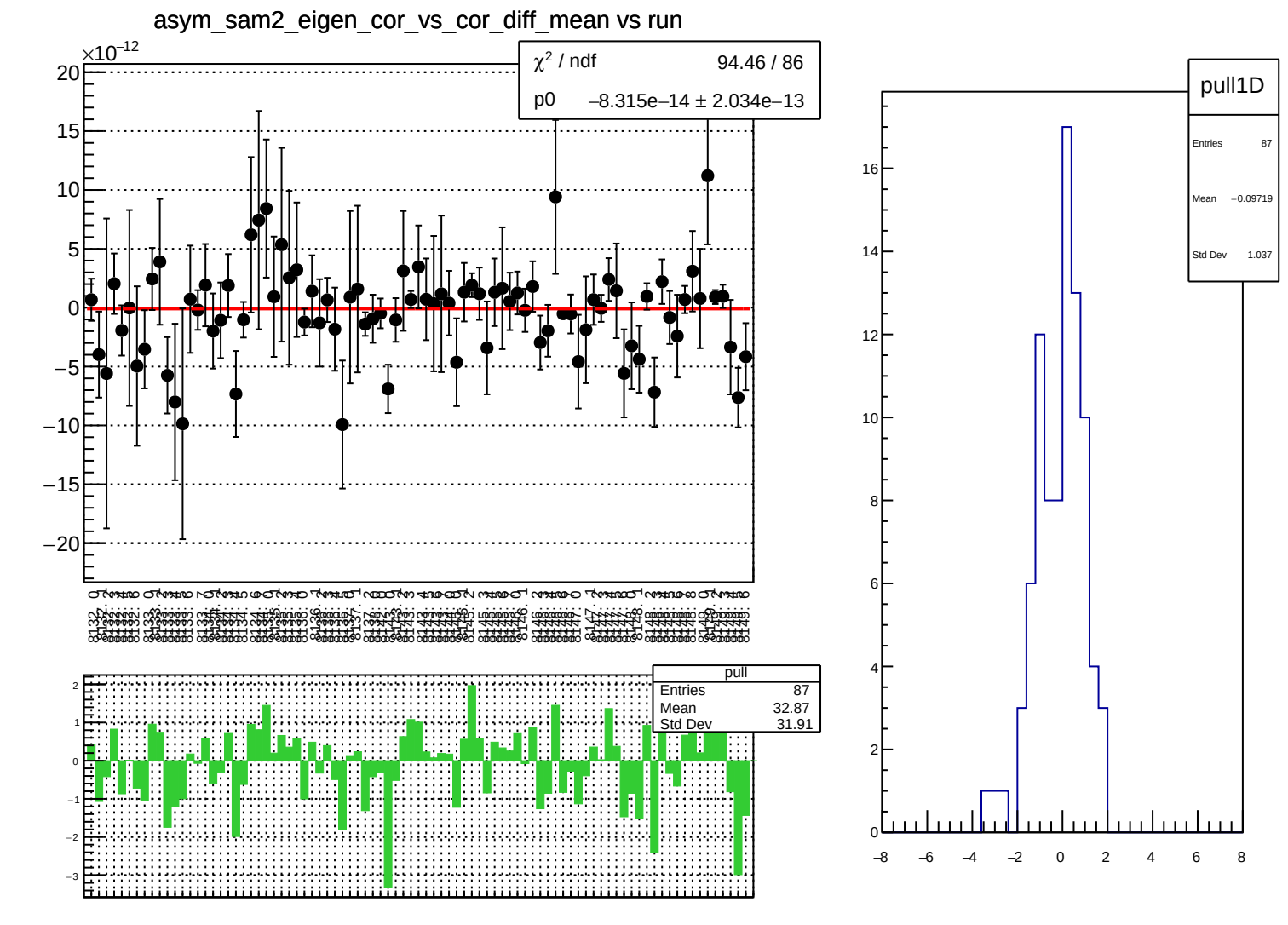

asym_sam2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6513 / 86
p0 0.008379 ± 6.403e−06
0.014
0.013
0.012
0.011
0.01
0.009
0.008

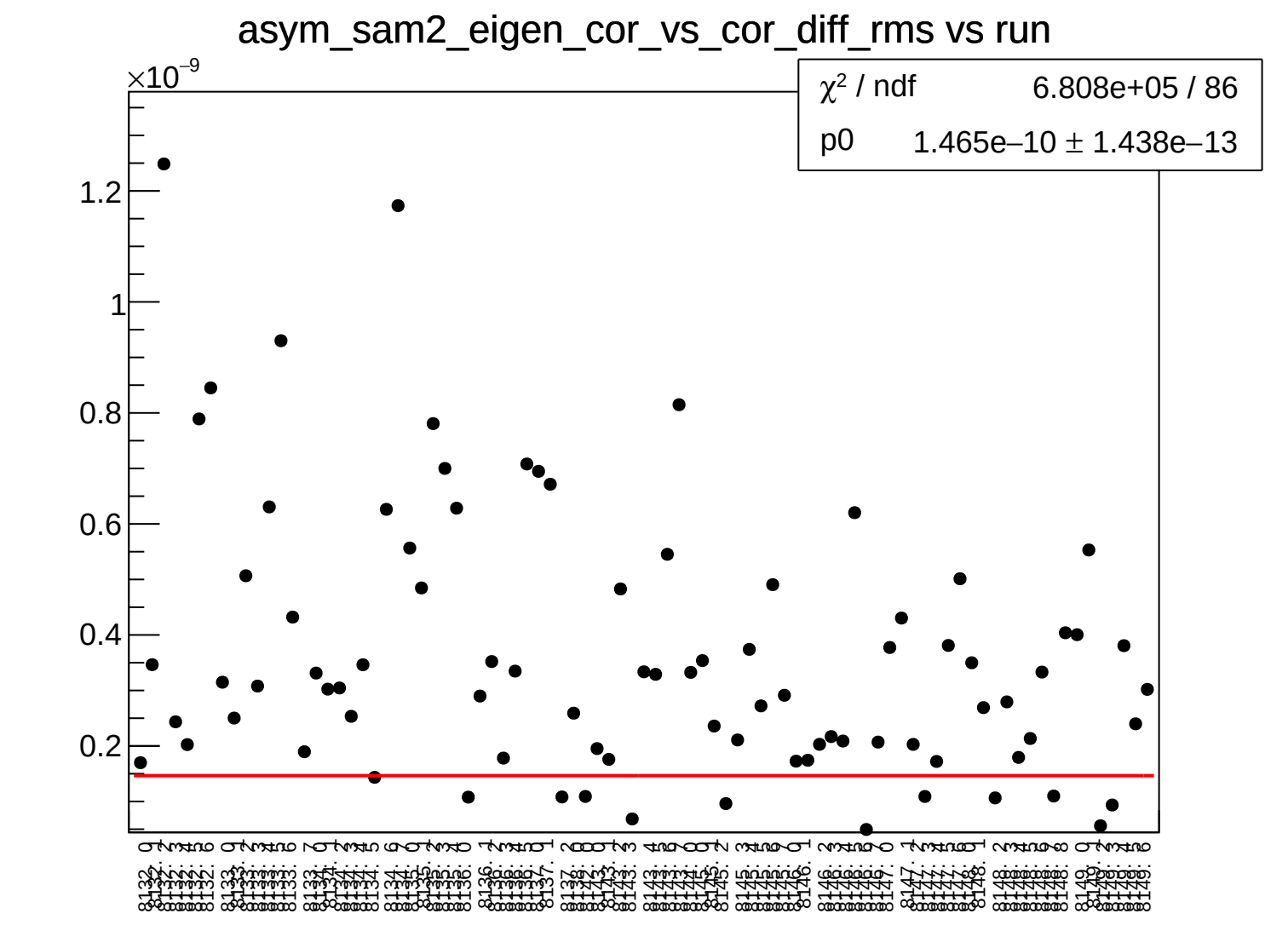

asym_sam2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 61 / 86
p0 −0.1554 ± 0.1541
pull
Entries 87
Mean 83.58
Std Dev 39.85
pull1D
Entries 87
Mean −0.03341
Std Dev 0.8367

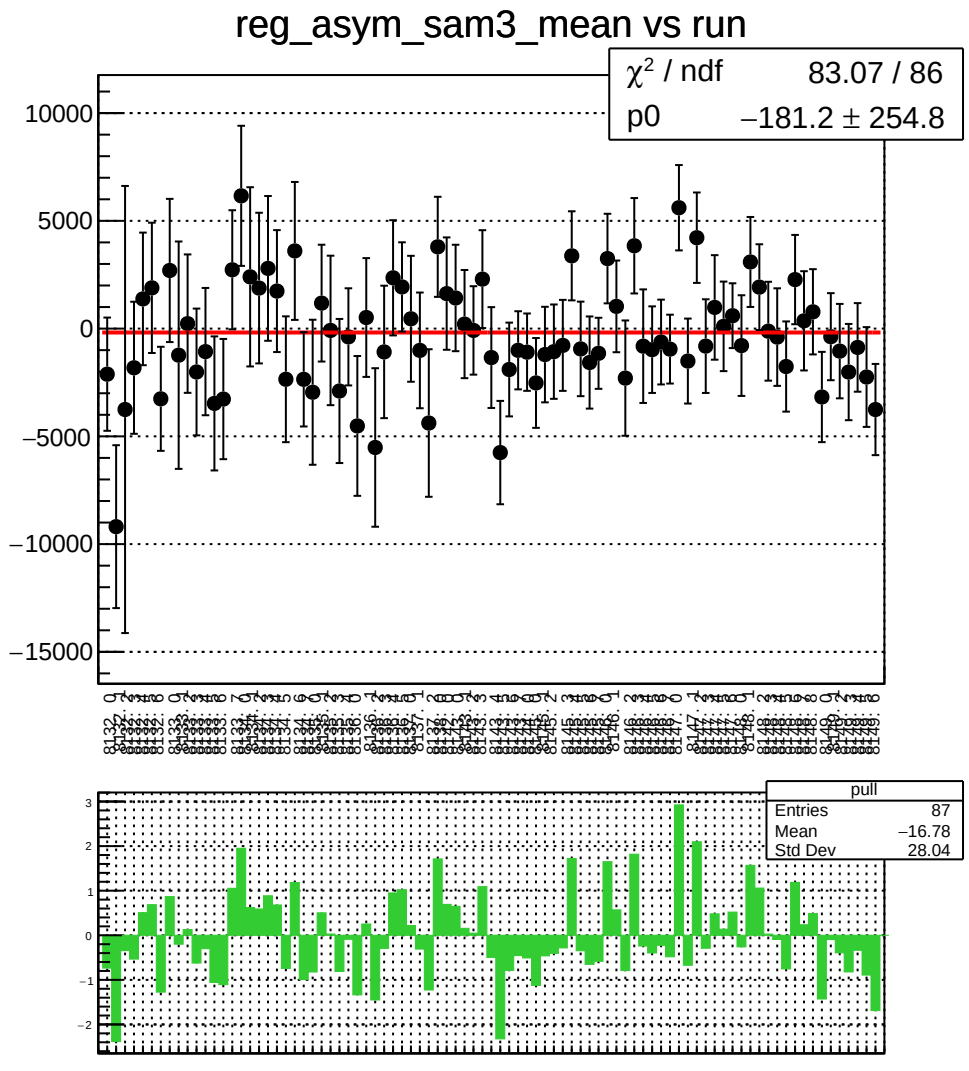

asym_sam2_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.102e+05 / 86
p0 138.2 ± 0.109
280
260
240
220
200
180
160
140
120
100

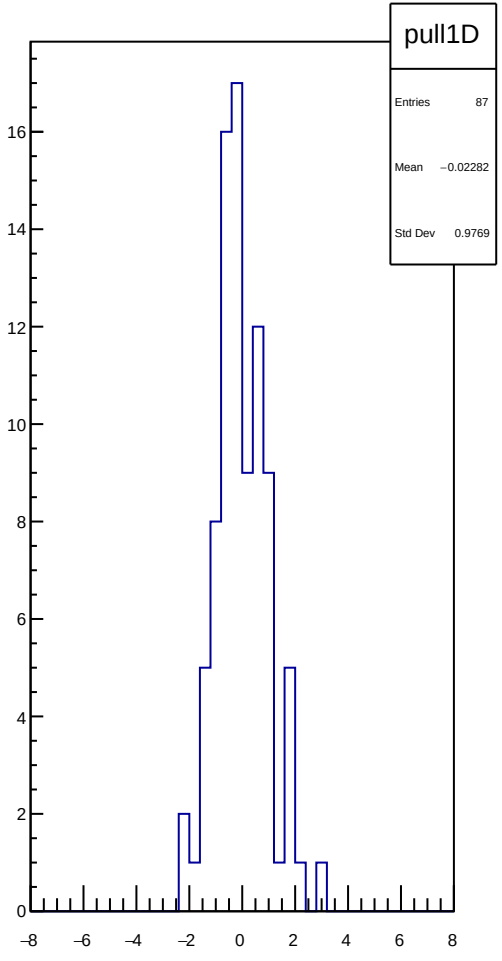

asym_sam2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 61 / 86
p0 −0.1554 ± 0.1541
pull
Entries 87
Mean 83.58
Std Dev 39.85
pull1D
Entries 87
Mean −0.03341
Std Dev 0.8367

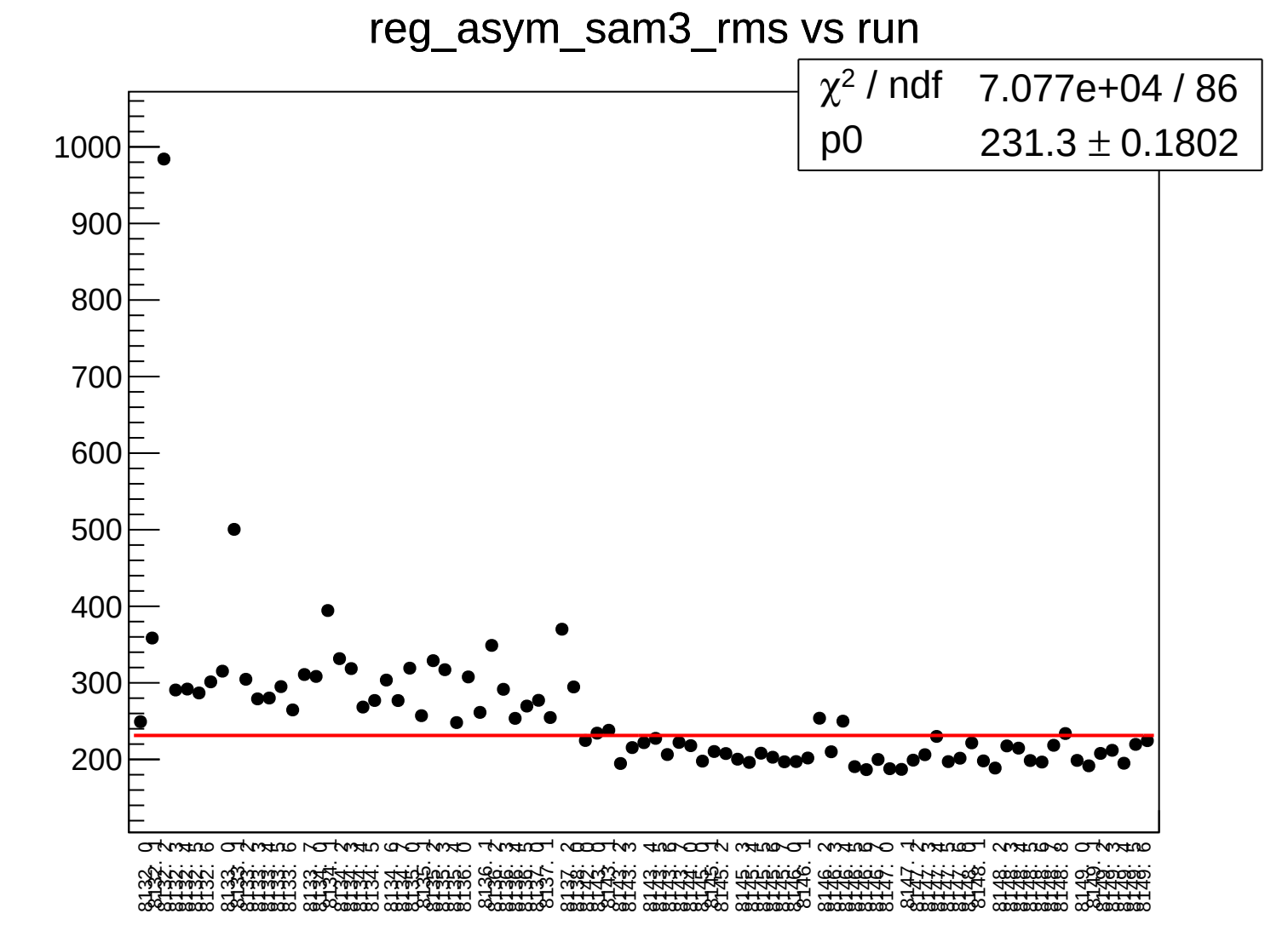

asym_sam2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.102e+05 / 86
p0 138.2 ± 0.109
280
260
240
220
200
180
160
140
120
100

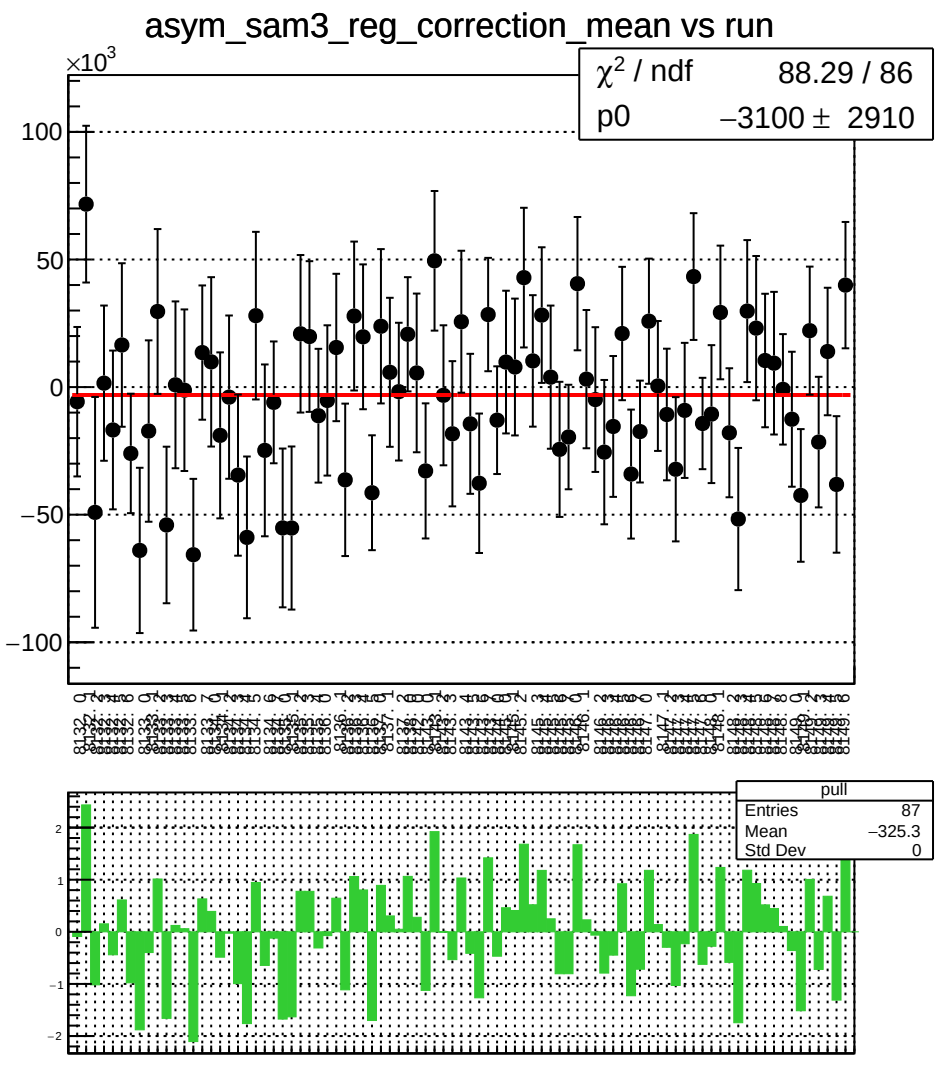

asym_sam2_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 94.46 / 86
p0 −8.315e−14 ± 2.034e−13
pull
Entries 87
Mean 32.87
Std Dev 31.91
pull1D
Entries 87
Mean −0.09719
Std Dev 1.037

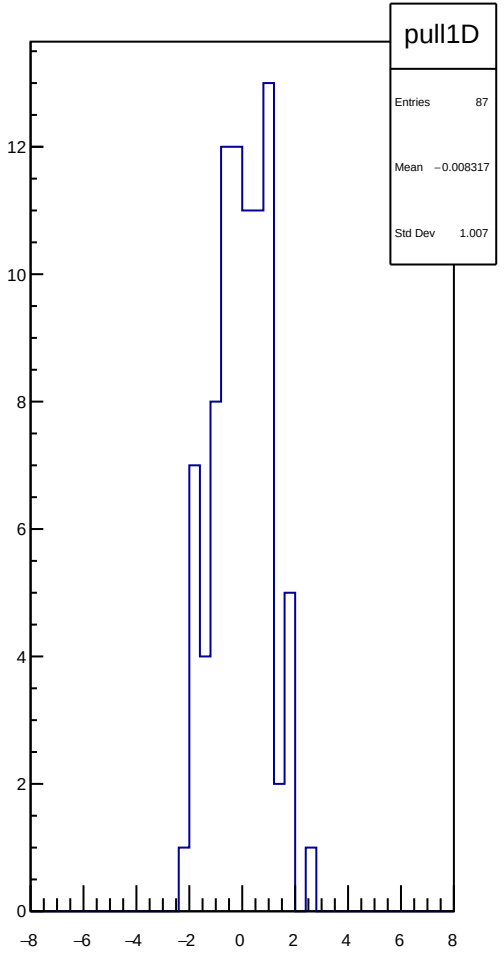

asym_sam2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.808e+05 / 86
p0 1.465e−10 ± 1.438e−13
1.2
1
0.8
0.6
0.4
0.2


reg_asym_sam3_mean vs run
χ² / ndf 83.07 / 86
p0 −181.2 ± 254.8
pull
Entries 87
Mean −16.78
Std Dev 28.04

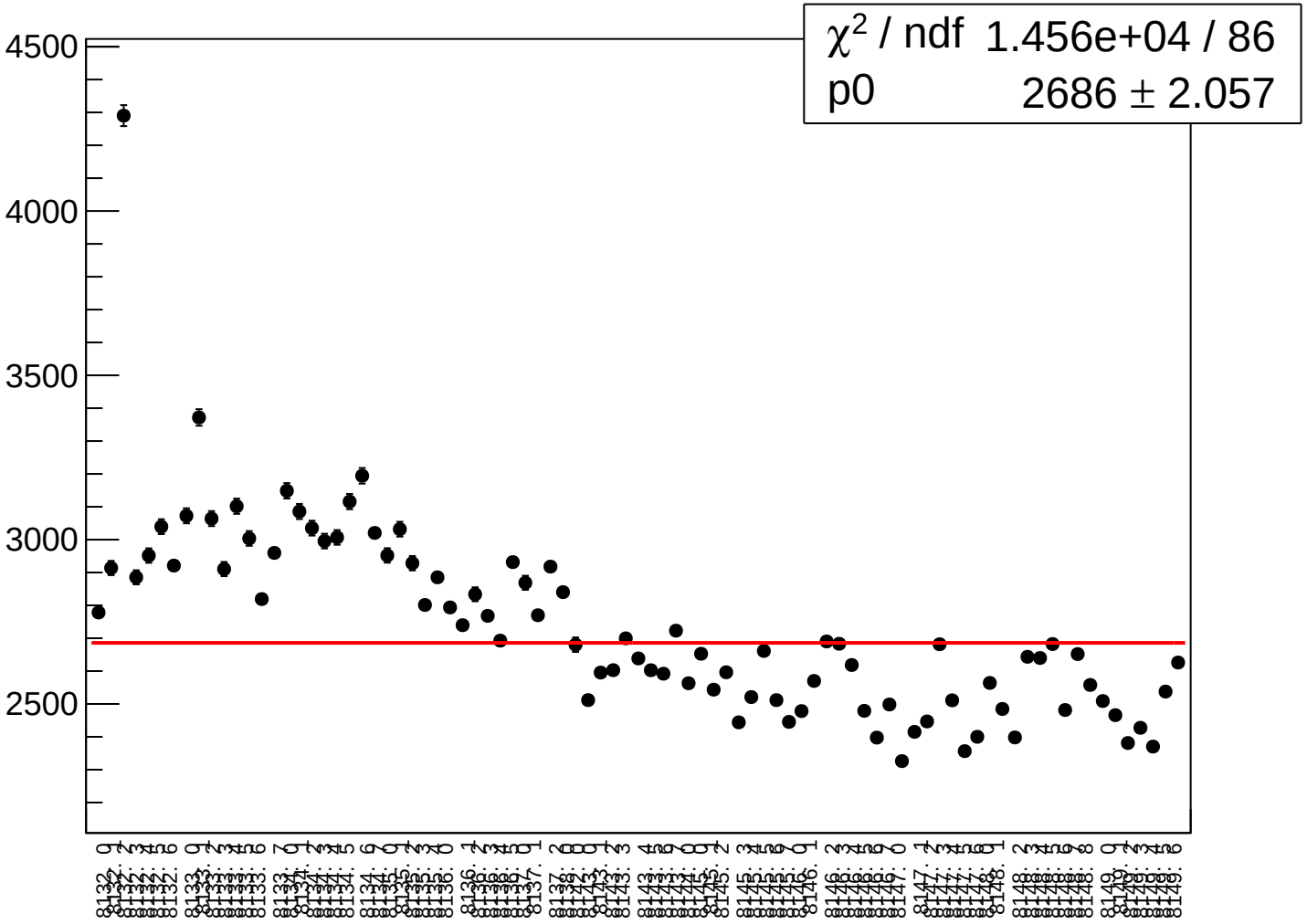

pull1D
Entries 87
Mean −0.02282
Std Dev 0.9769

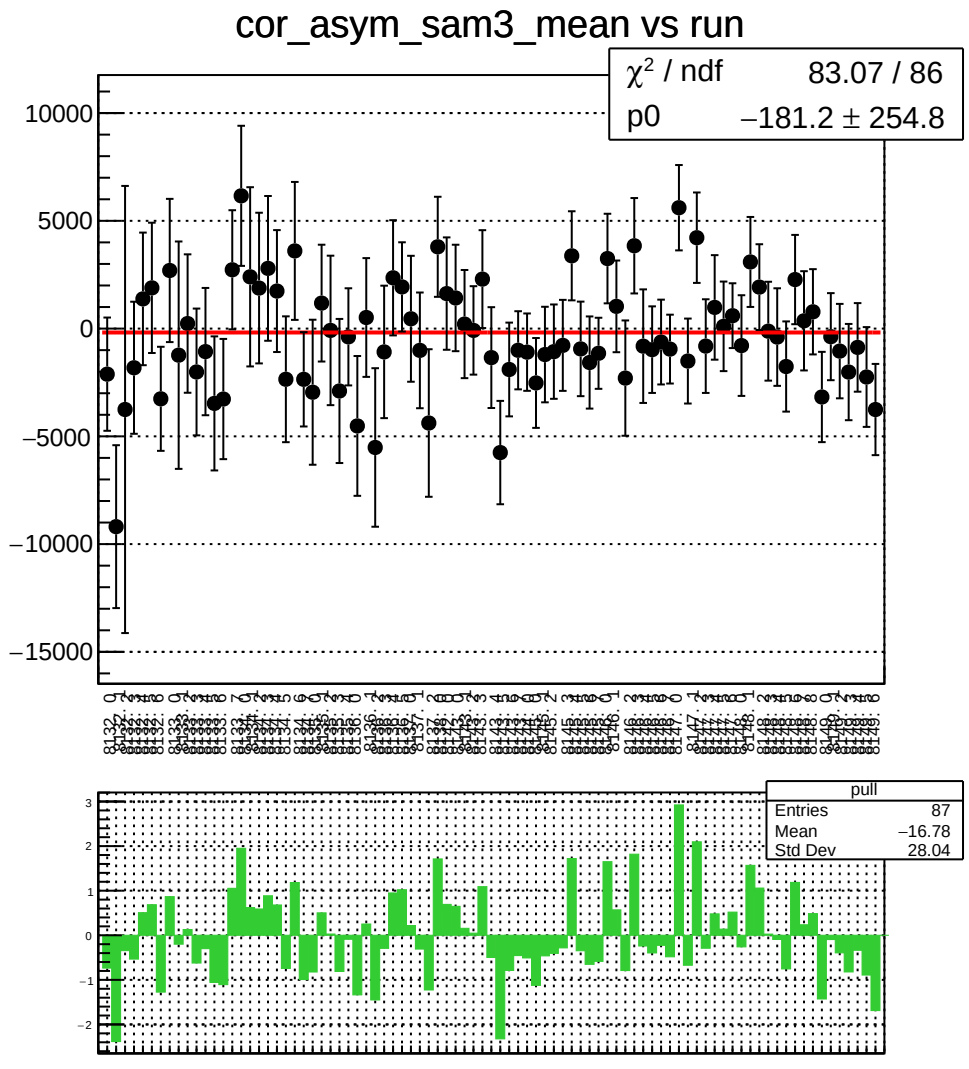

reg_asym_sam3_rms vs run
χ² / ndf 7.077e+04 / 86
p0 231.3 ± 0.1802
1000
900
800
700
600
500
400
300
200

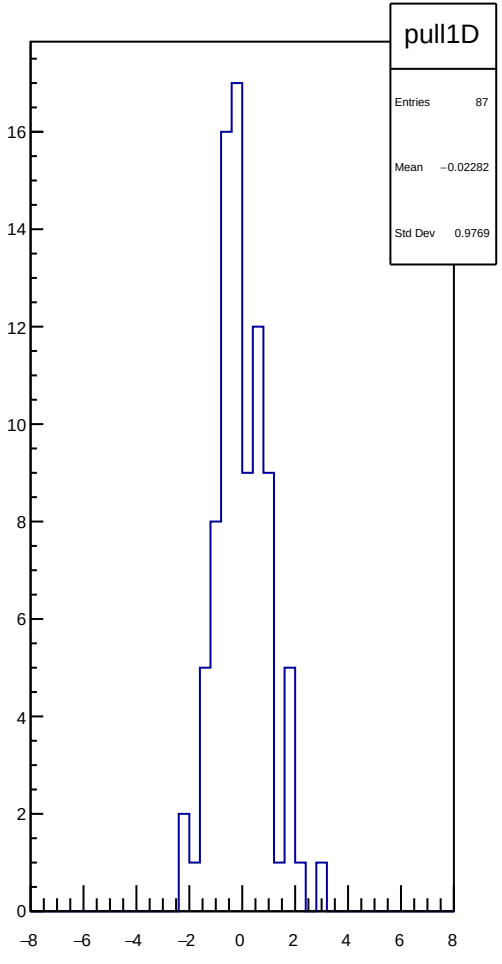

asym_sam3_reg_correction_mean vs run
×10^3
χ² / ndf 88.29 / 86
p0 −3100 ± 2910
100
50
0
−50
−100
pull
Entries 87
Mean −325.3
Std Dev 0
2
1
0
−1
−2

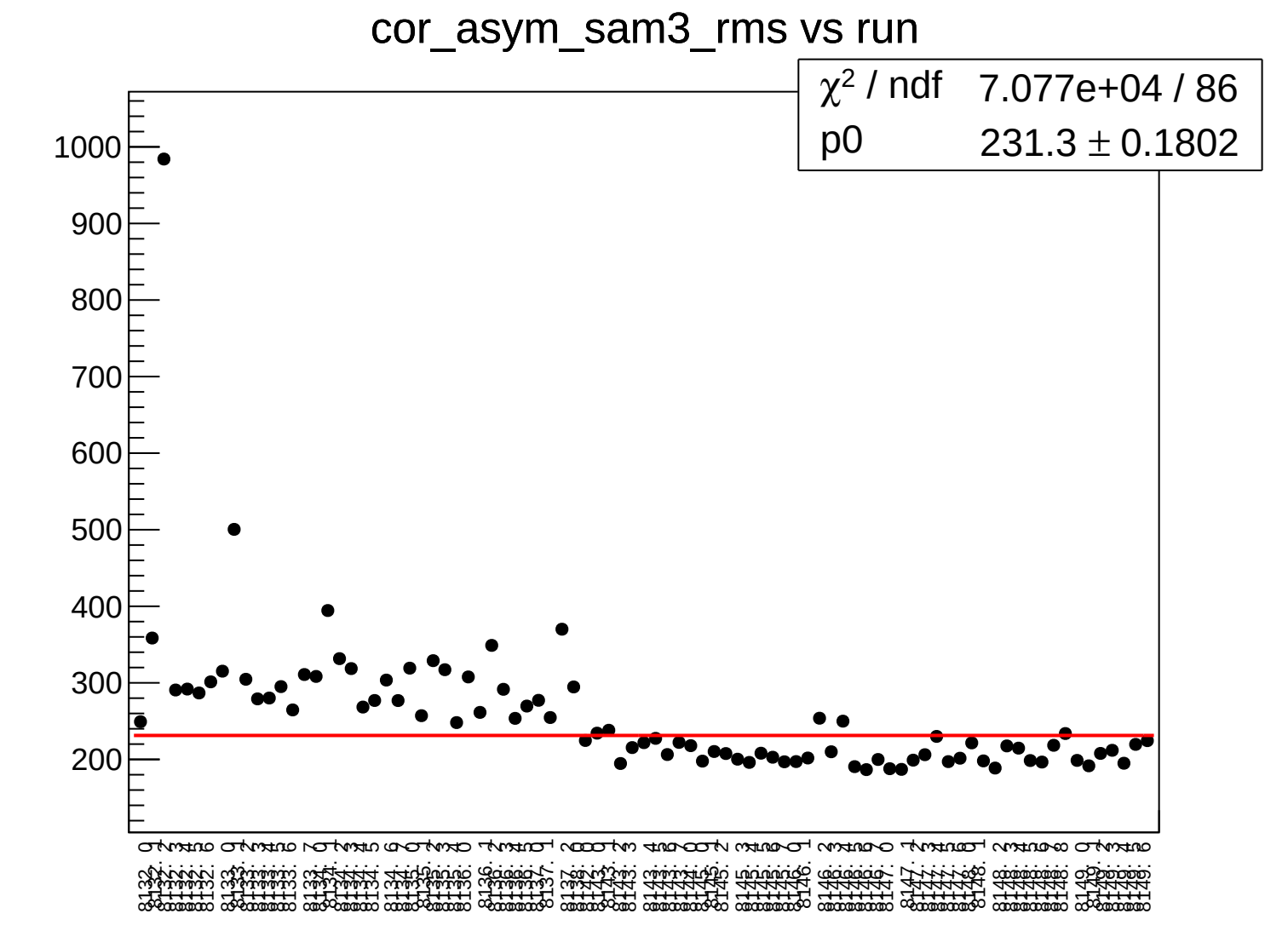

pull1D
Entries 87
Mean −0.008317
Std Dev 1.007
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

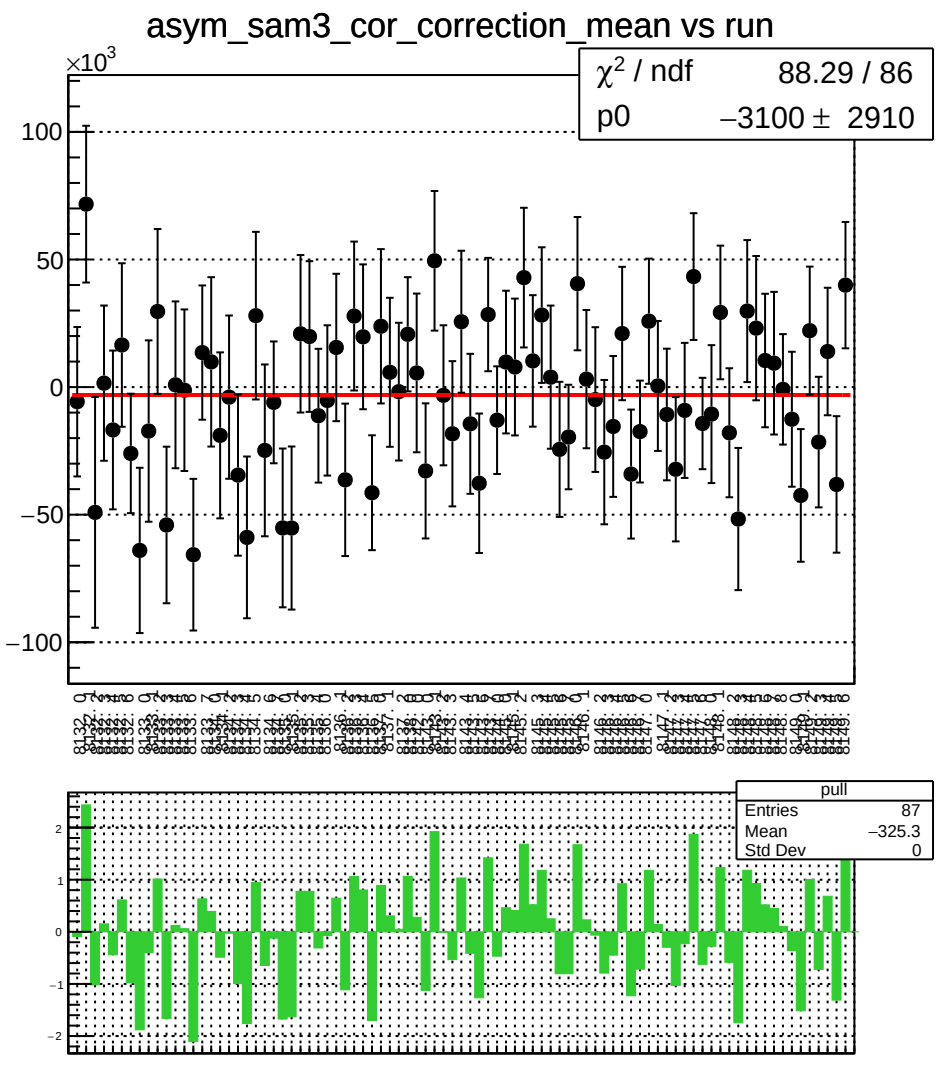
asym_sam3_reg_correction_rms vs run

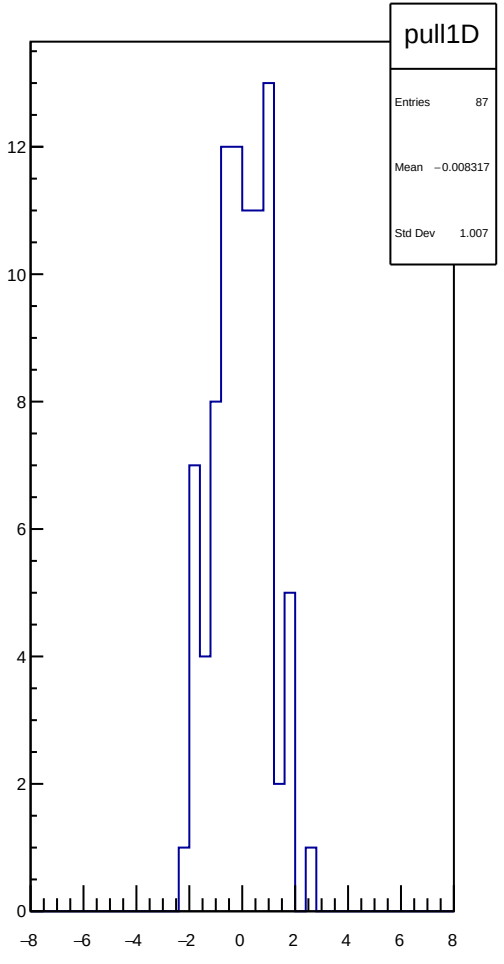


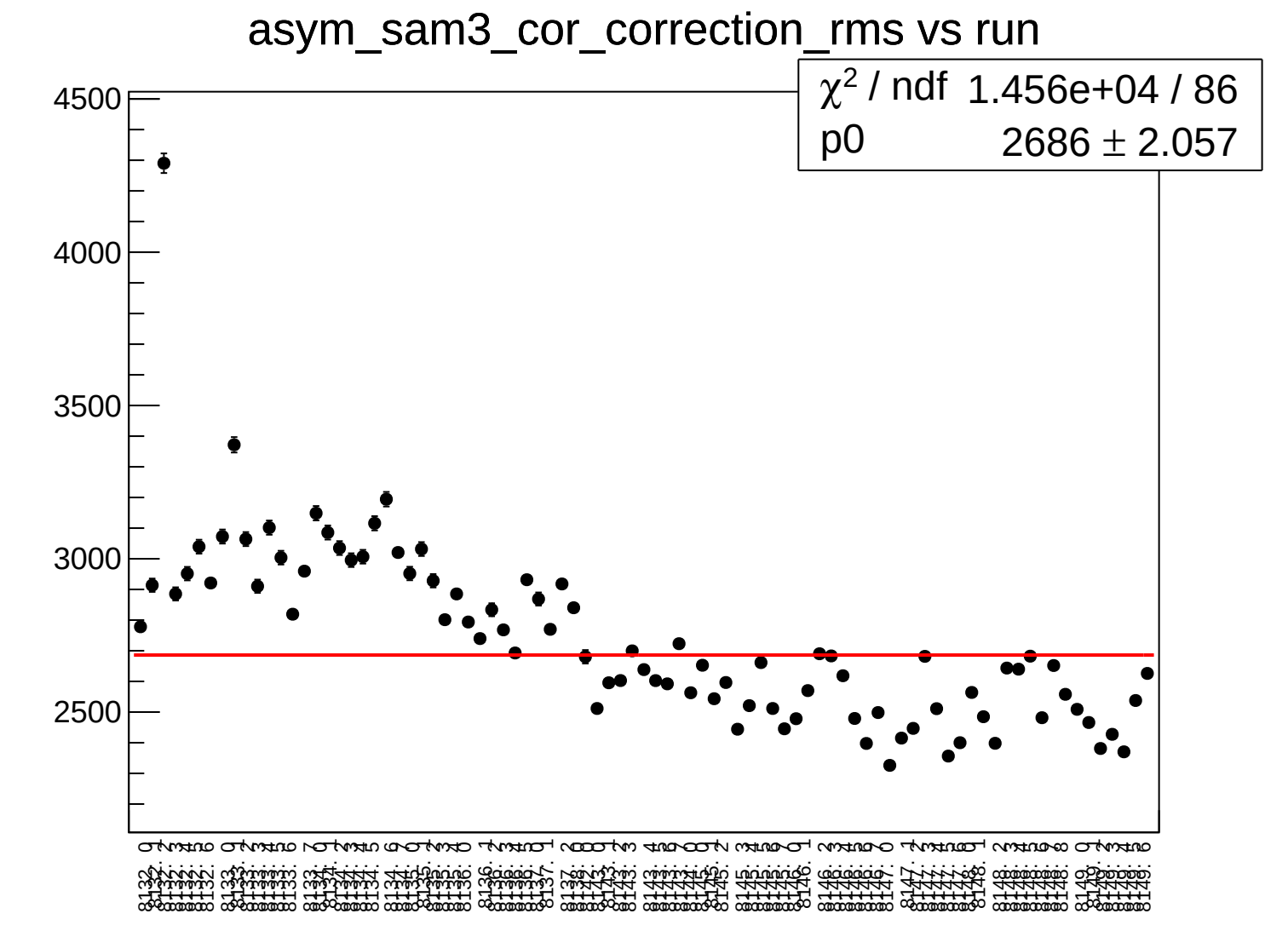

cor_asym_sam3_mean vs run
χ² / ndf 83.07 / 86
p0 −181.2 ± 254.8
pull
Entries 87
Mean −16.78
Std Dev 28.04

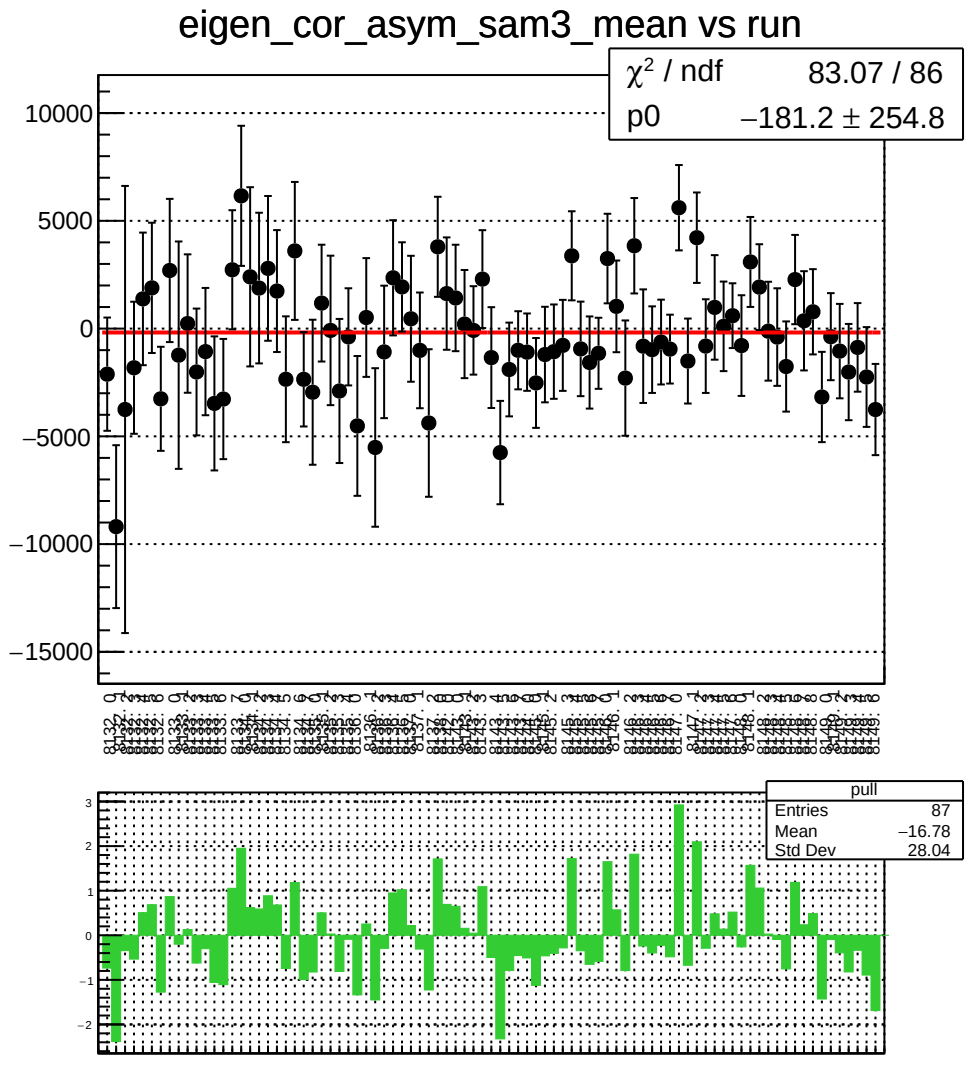

pull1D
Entries 87
Mean −0.02282
Std Dev 0.9769

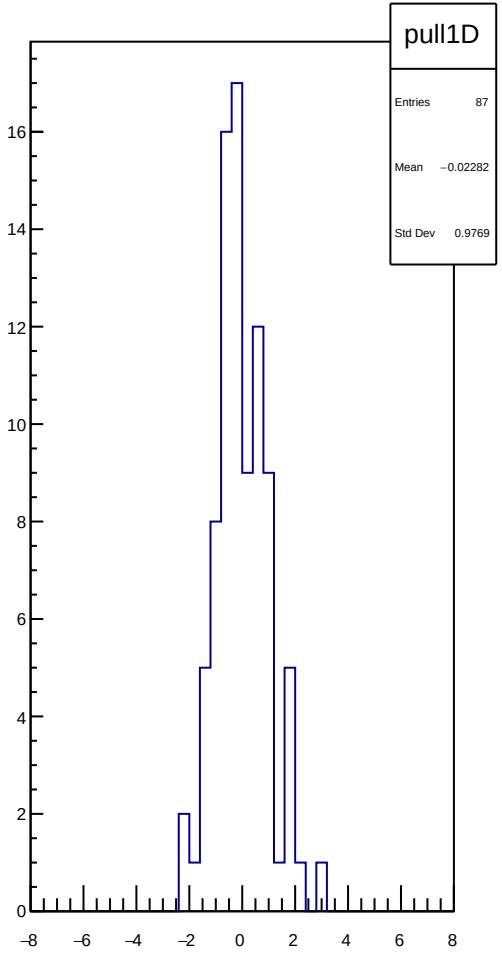

cor_asym_sam3_rms vs run
χ² / ndf 7.077e+04 / 86
p0 231.3 ± 0.1802
1000
900
800
700
600
500
400
300
200

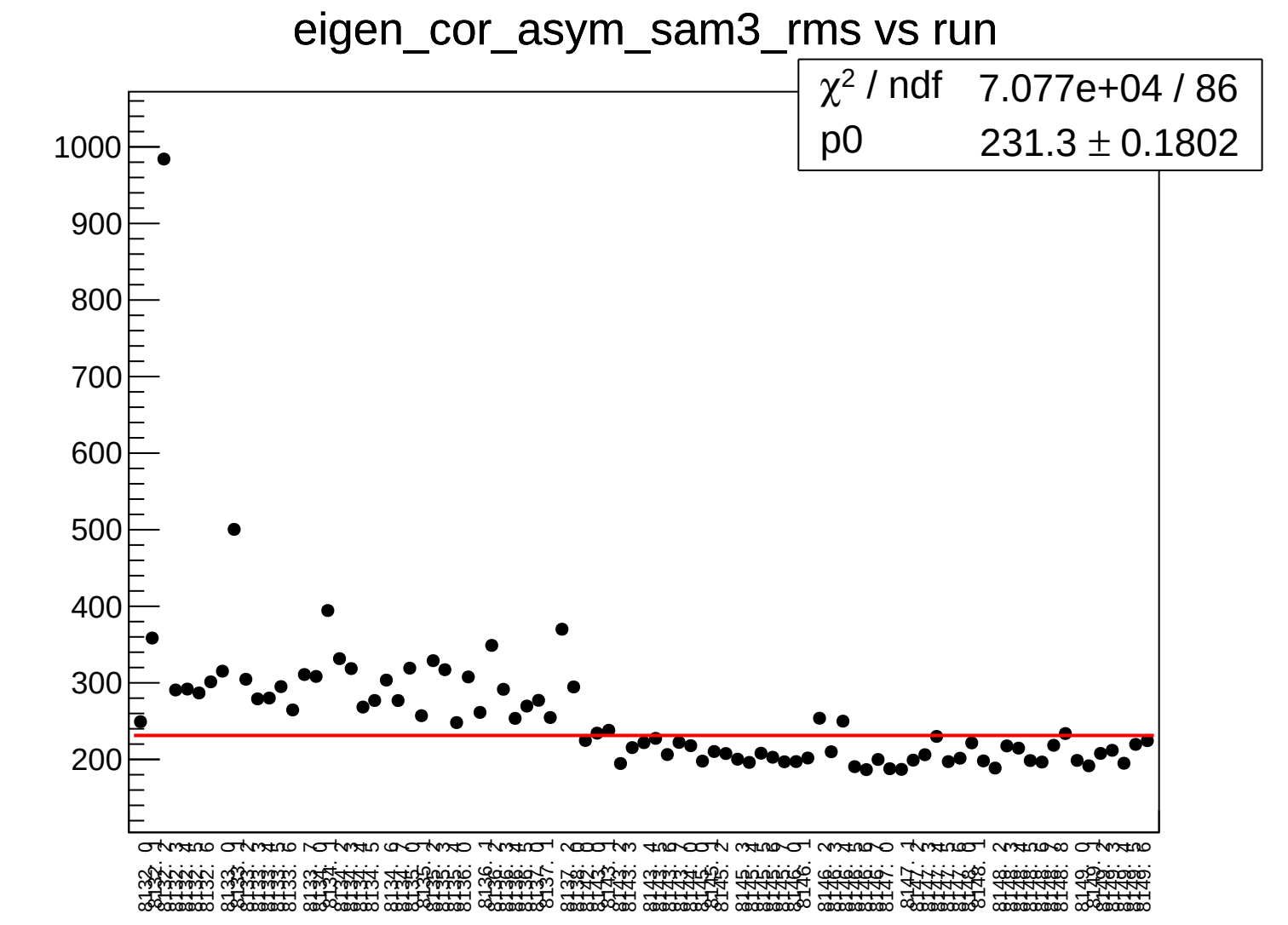

asym_sam3_cor_correction_mean vs run
×10^3
χ² / ndf 88.29 / 86
p0 −3100 ± 2910
100
50
0
−50
−100
pull
Entries 87
Mean −325.3
Std Dev 0
2
1
0
−1
−2

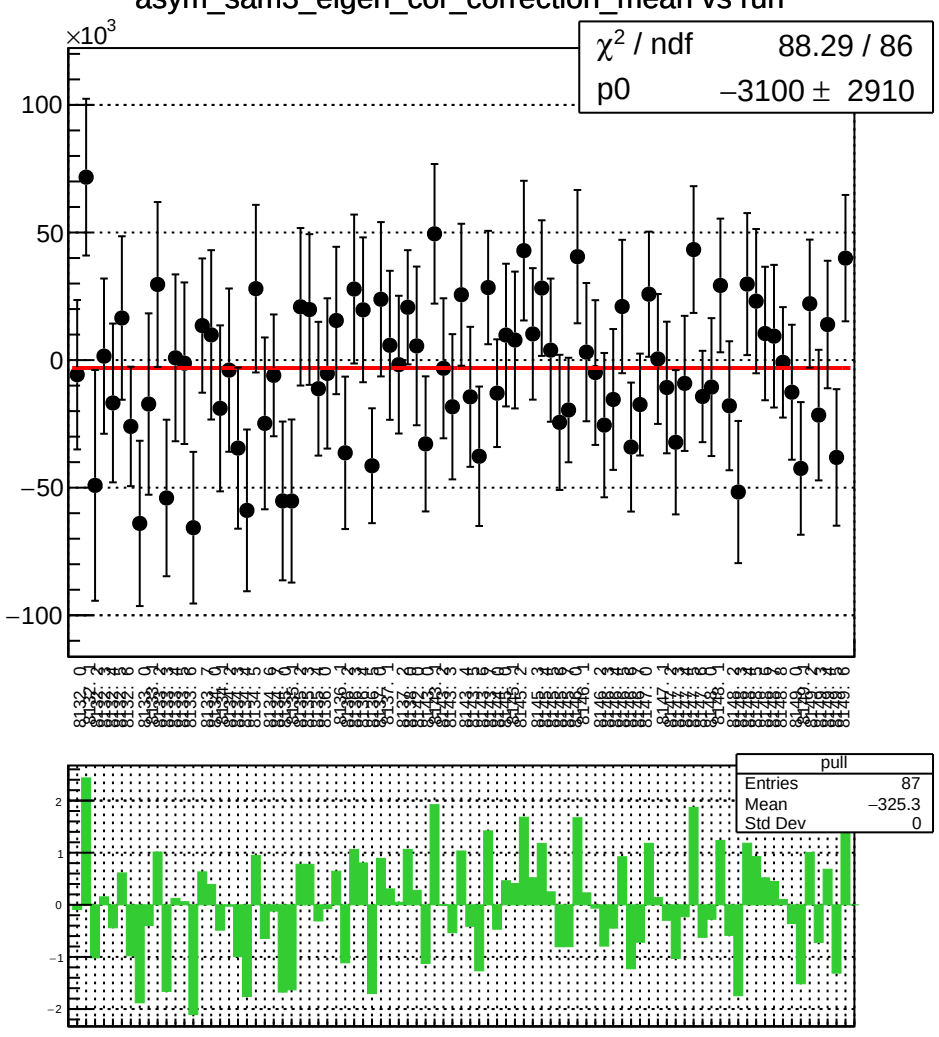

pull1D
Entries 87
Mean −0.008317
Std Dev 1.007
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

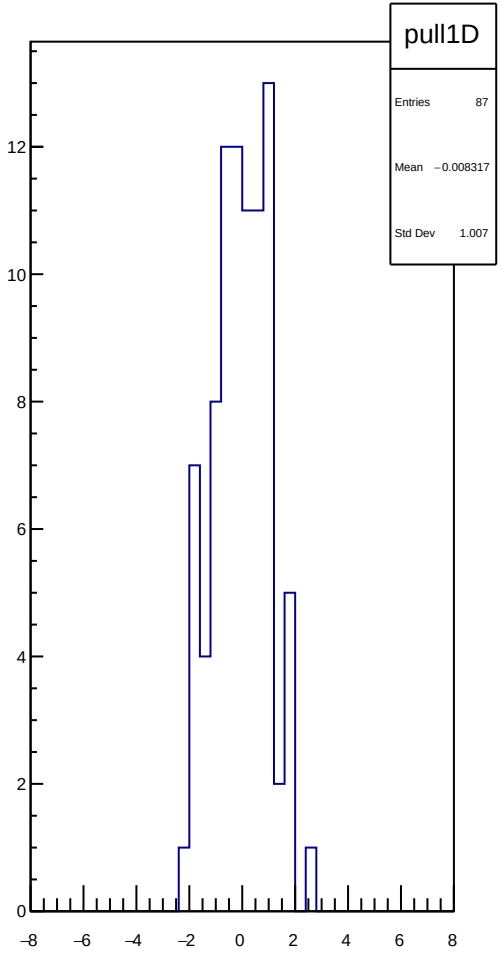

asym_sam3_cor_correction_rms vs run
χ² / ndf 1.456e+04 / 86
p0 2686 ± 2.057
4500
4000
3500
3000
2500

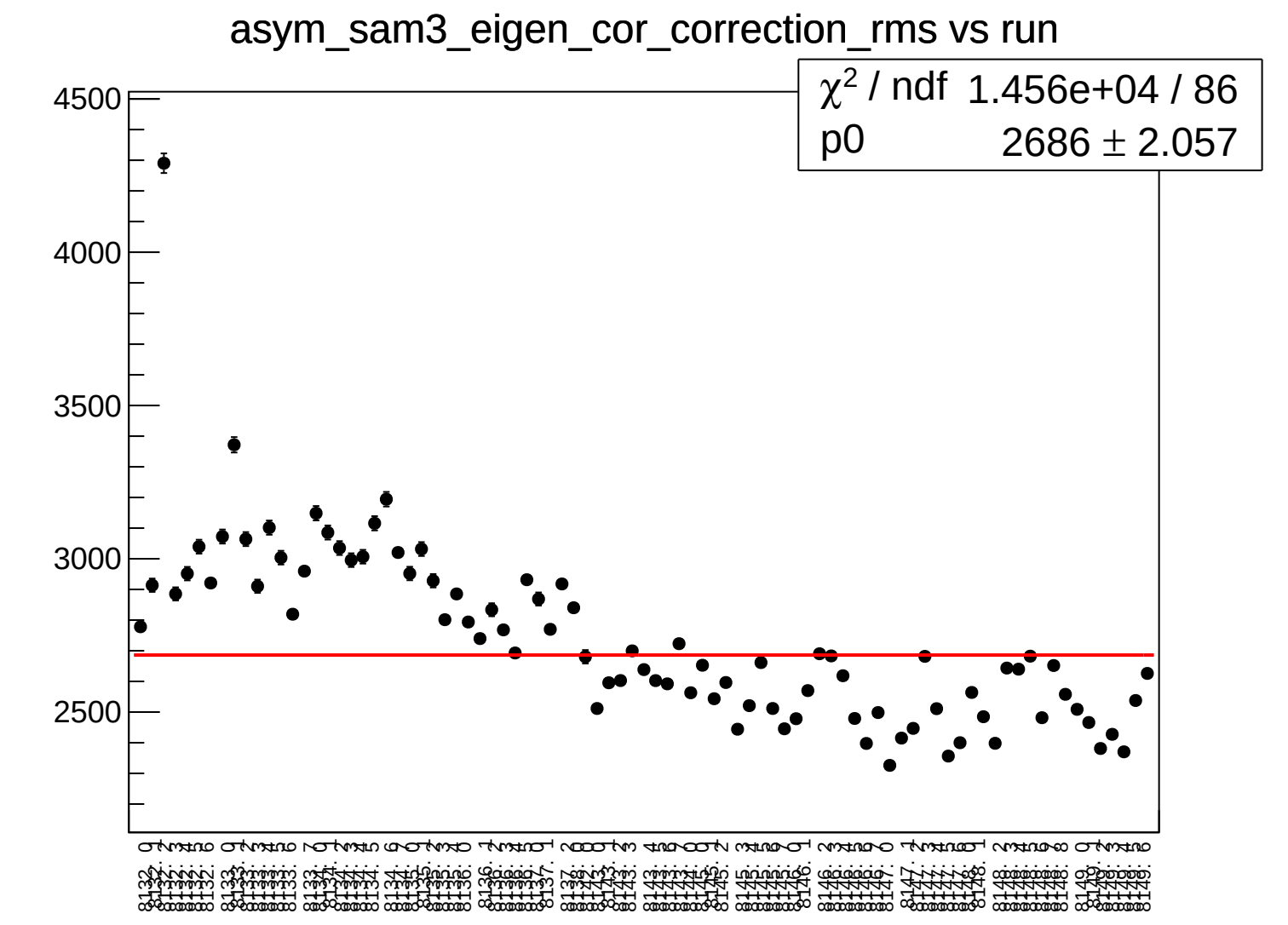

eigen_cor_asym_sam3_mean vs run
χ² / ndf 83.07 / 86
p0 −181.2 ± 254.8
pull
Entries 87
Mean −16.78
Std Dev 28.04

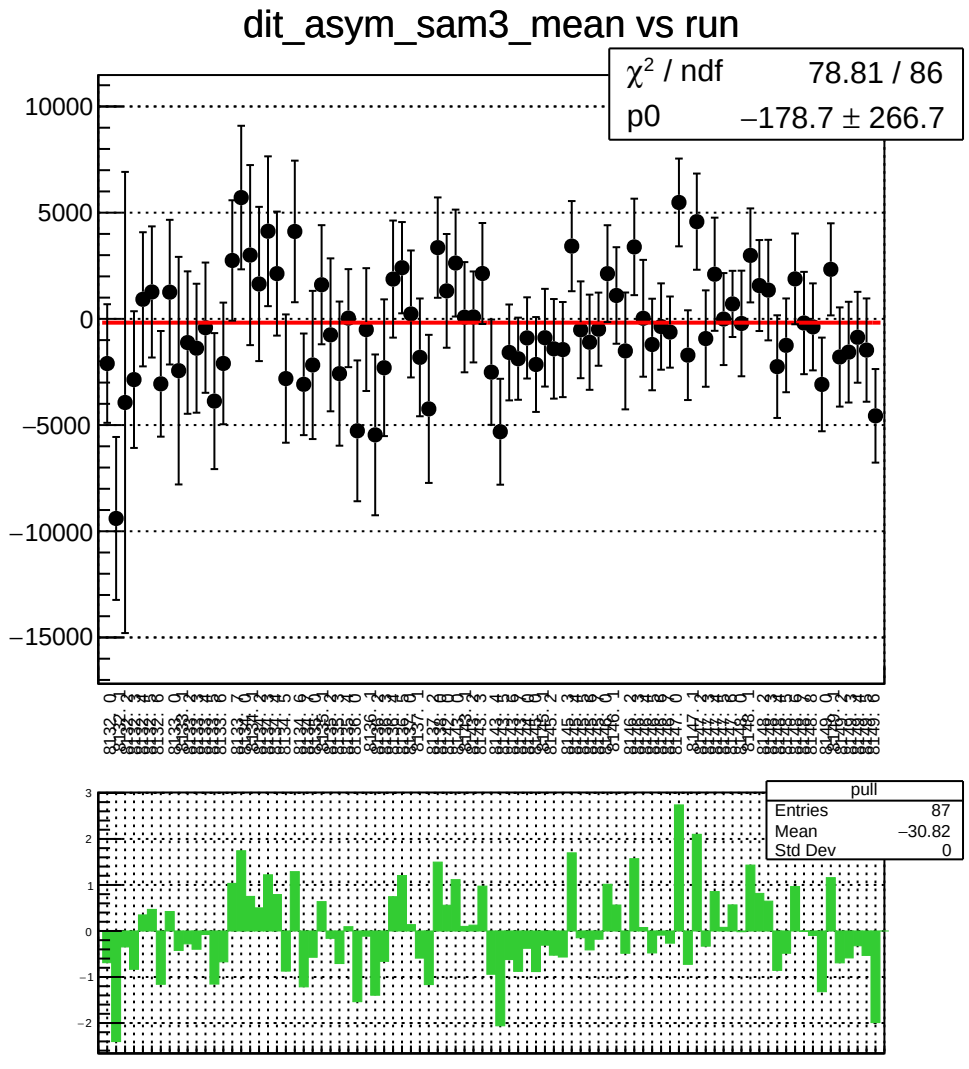

pull1D
Entries 87
Mean −0.02282
Std Dev 0.9769

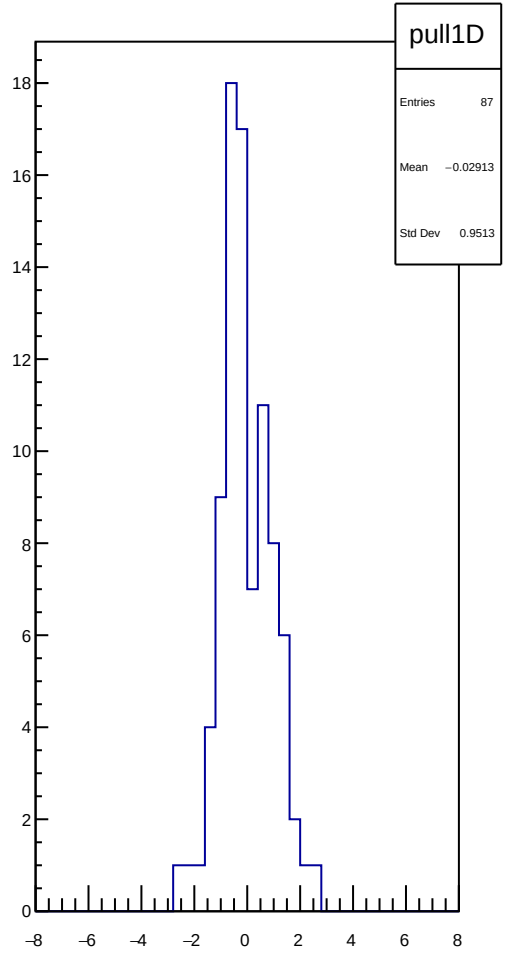

eigen_cor_asym_sam3_rms vs run
χ² / ndf 7.077e+04 / 86
p0 231.3 ± 0.1802
1000
900
800
700
600
500
400
300
200

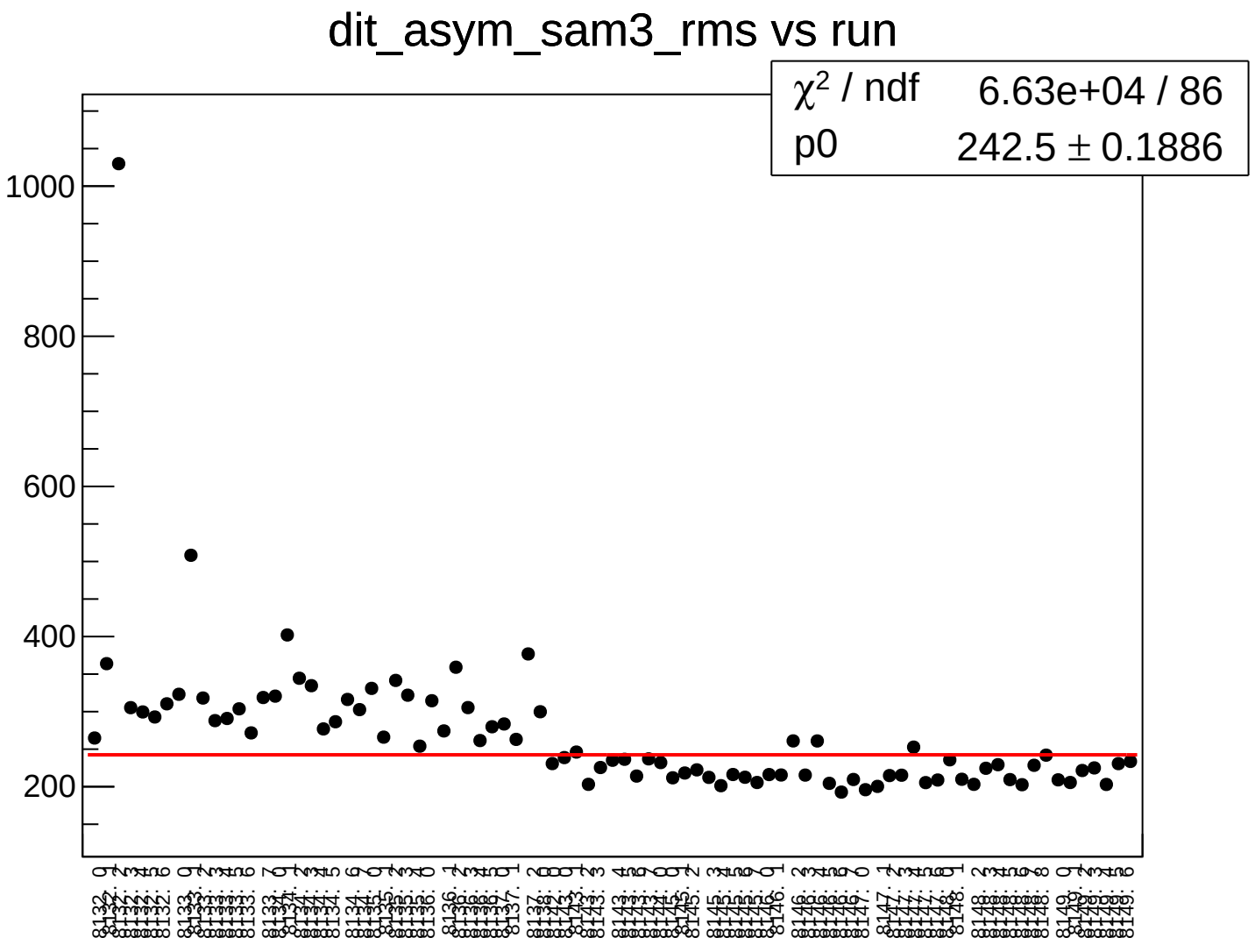

asym_sam3_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 88.29 / 86
p0 −3100 ± 2910
100
50
0
−50
−100
pull
Entries 87
Mean −325.3
Std Dev 0
2
1
0
−1
−2

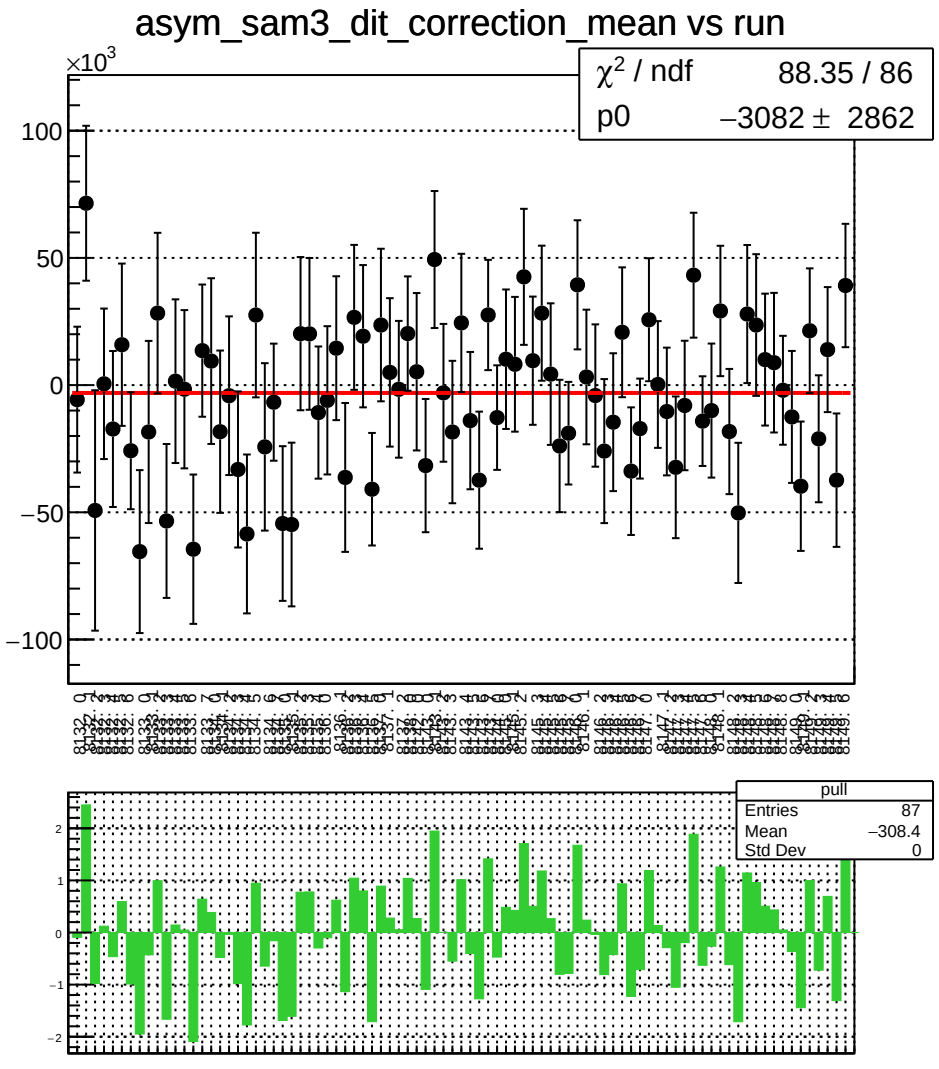

pull1D
Entries 87
Mean −0.008317
Std Dev 1.007
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

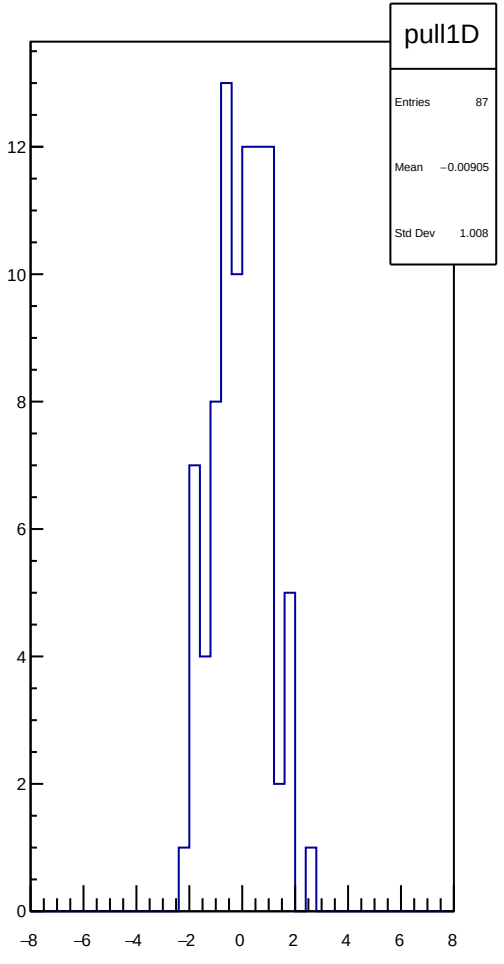

asym_sam3_eigen_cor_correction_rms vs run
χ² / ndf 1.456e+04 / 86
p0 2686 ± 2.057
4500
4000
3500
3000
2500


dit_asym_sam3_mean vs run
χ² / ndf 78.81 / 86
p0 −178.7 ± 266.7
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean −30.82
Std Dev 0
3
2
1
0
−1
−2

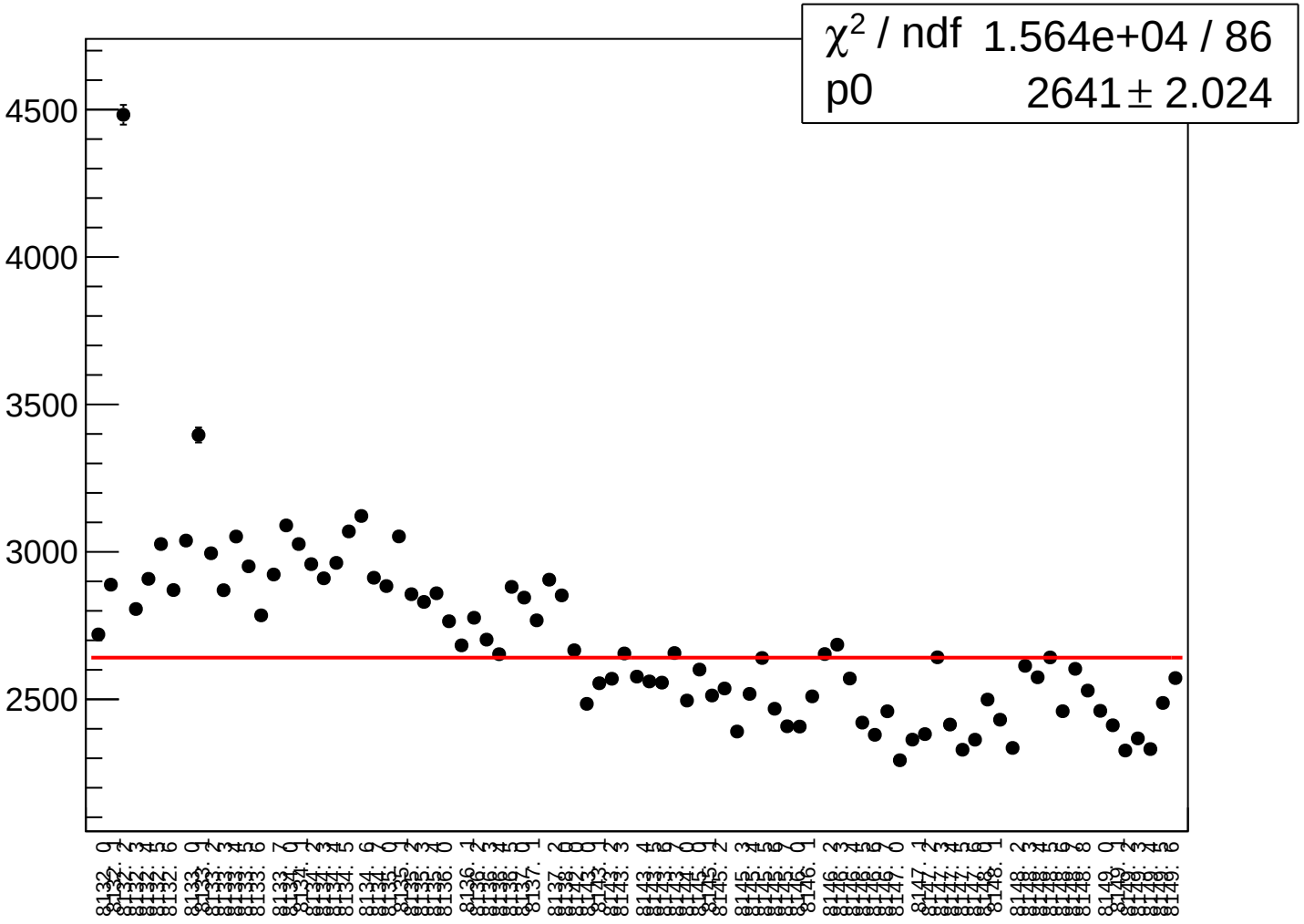

pull1D
Entries 87
Mean −0.02913
Std Dev 0.9513
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

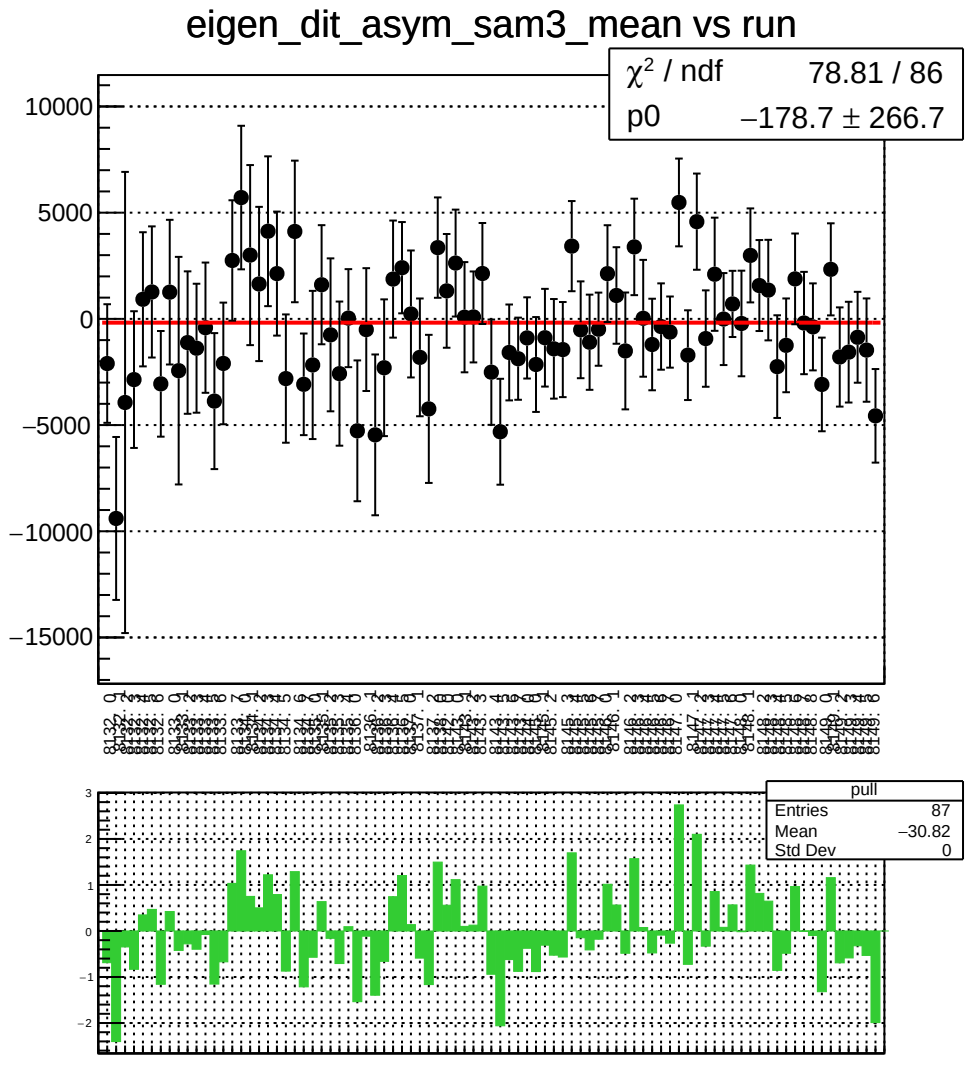

dit_asym_sam3_rms vs run
χ² / ndf 6.63e+04 / 86
p0 242.5 ± 0.1886
1000
800
600
400
200

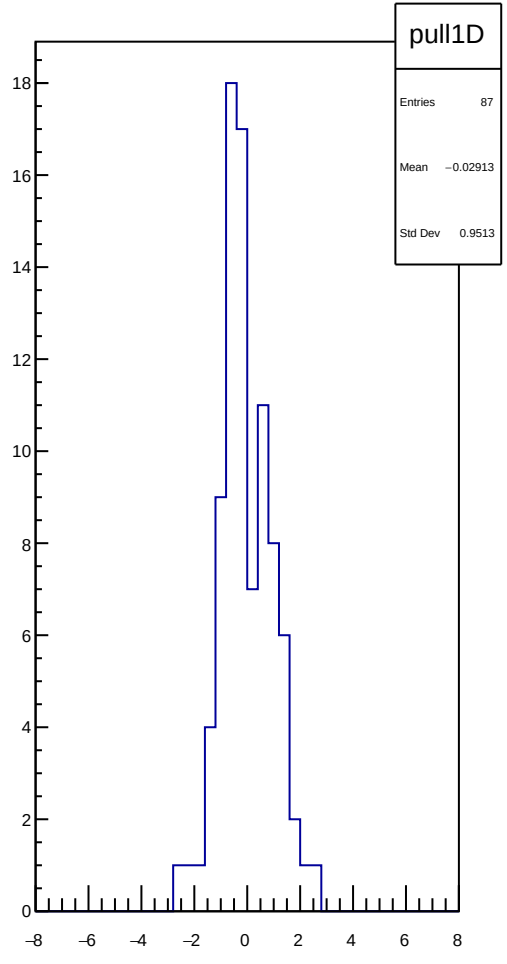

asym_sam3_dit_correction_mean vs run
×10^3
χ² / ndf 88.35 / 86
p0 −3082 ± 2862
100
50
0
−50
−100
pull
Entries 87
Mean −308.4
Std Dev 0
2
1
0
−1
−2

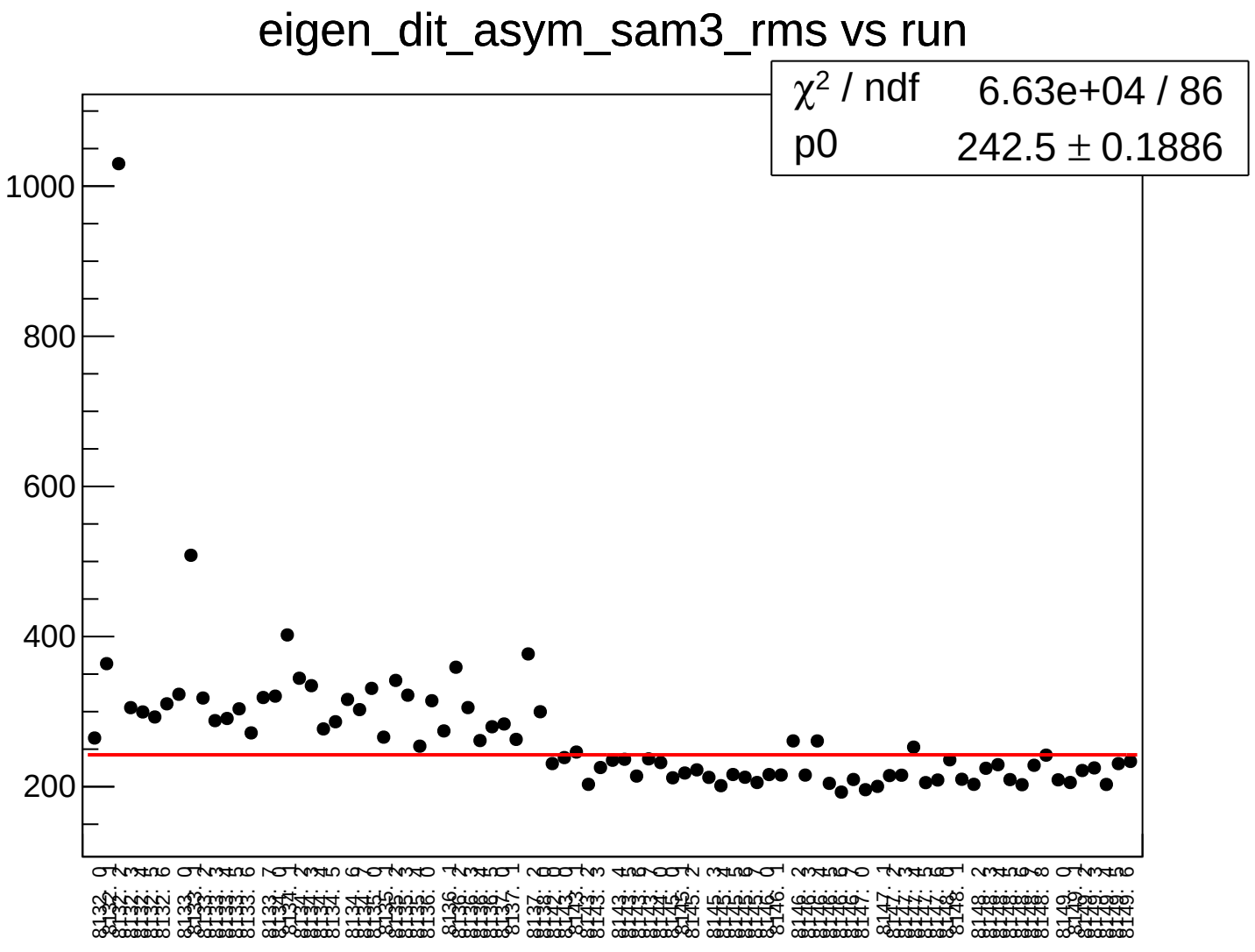

pull1D
Entries 87
Mean −0.00905
Std Dev 1.008
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

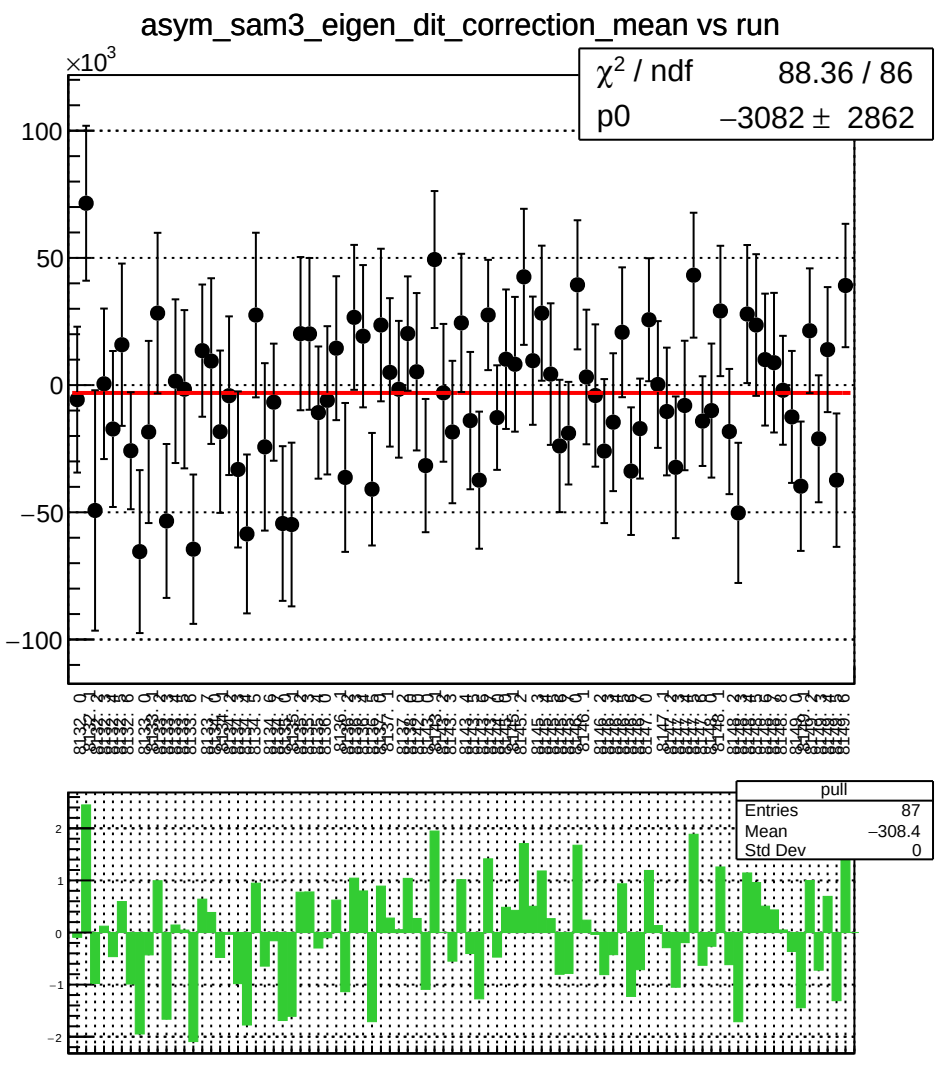
asym_sam3_dit_correction_rms vs run

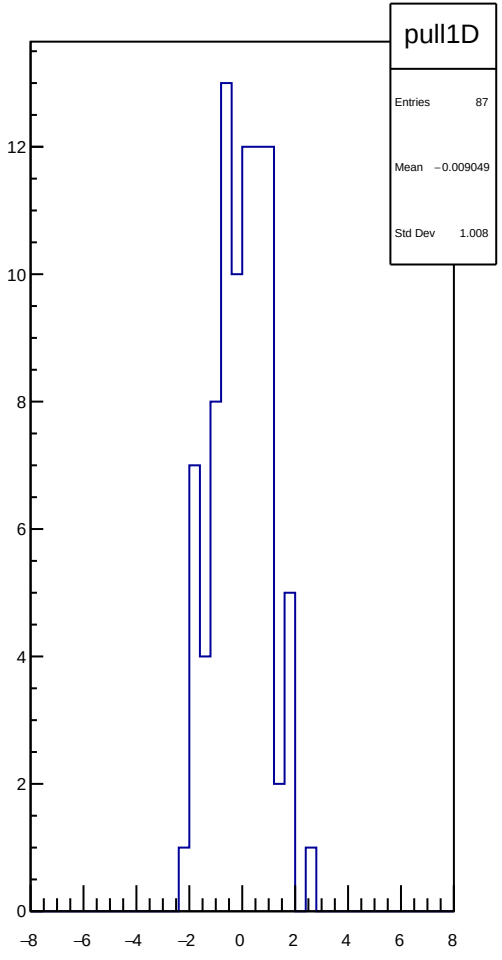


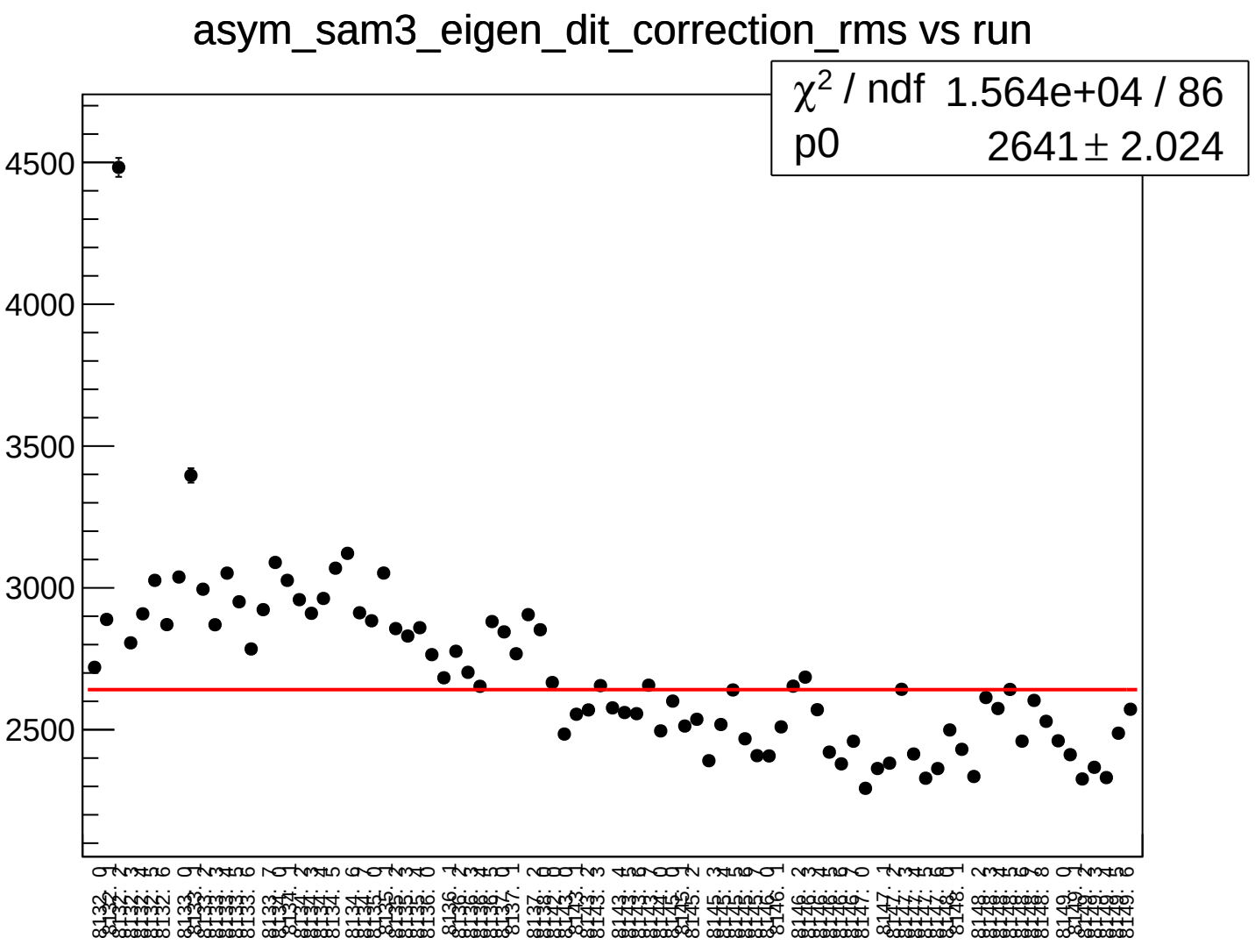

eigen_dit_asym_sam3_mean vs run
χ² / ndf 78.81 / 86
p0 −178.7 ± 266.7
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean −30.82
Std Dev 0
3
2
1
0
−1
−2

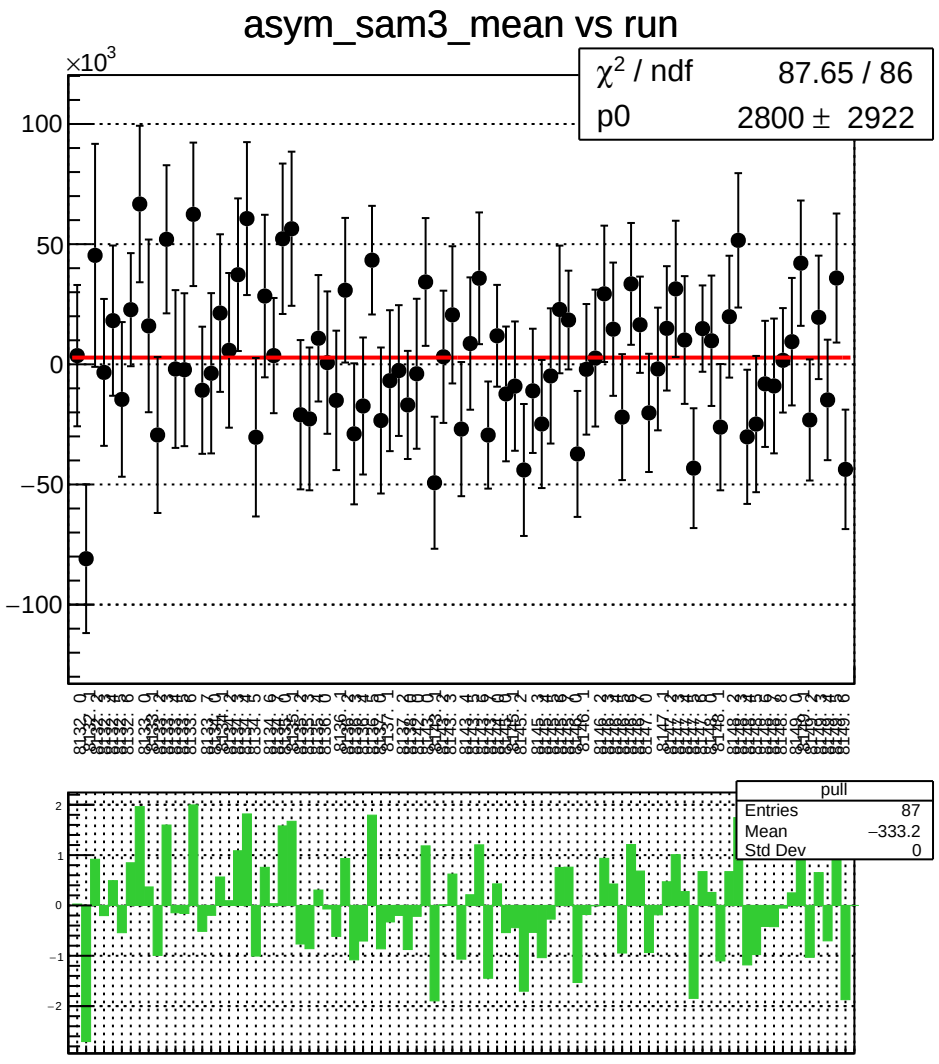

pull1D
Entries 87
Mean −0.02913
Std Dev 0.9513
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

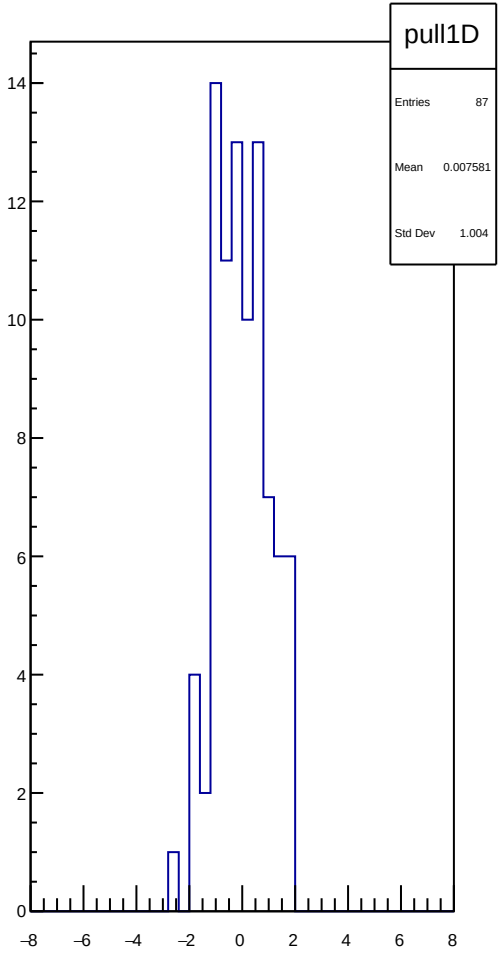

eigen_dit_asym_sam3_rms vs run
χ² / ndf 6.63e+04 / 86
p0 242.5 ± 0.1886
1000
800
600
400
200

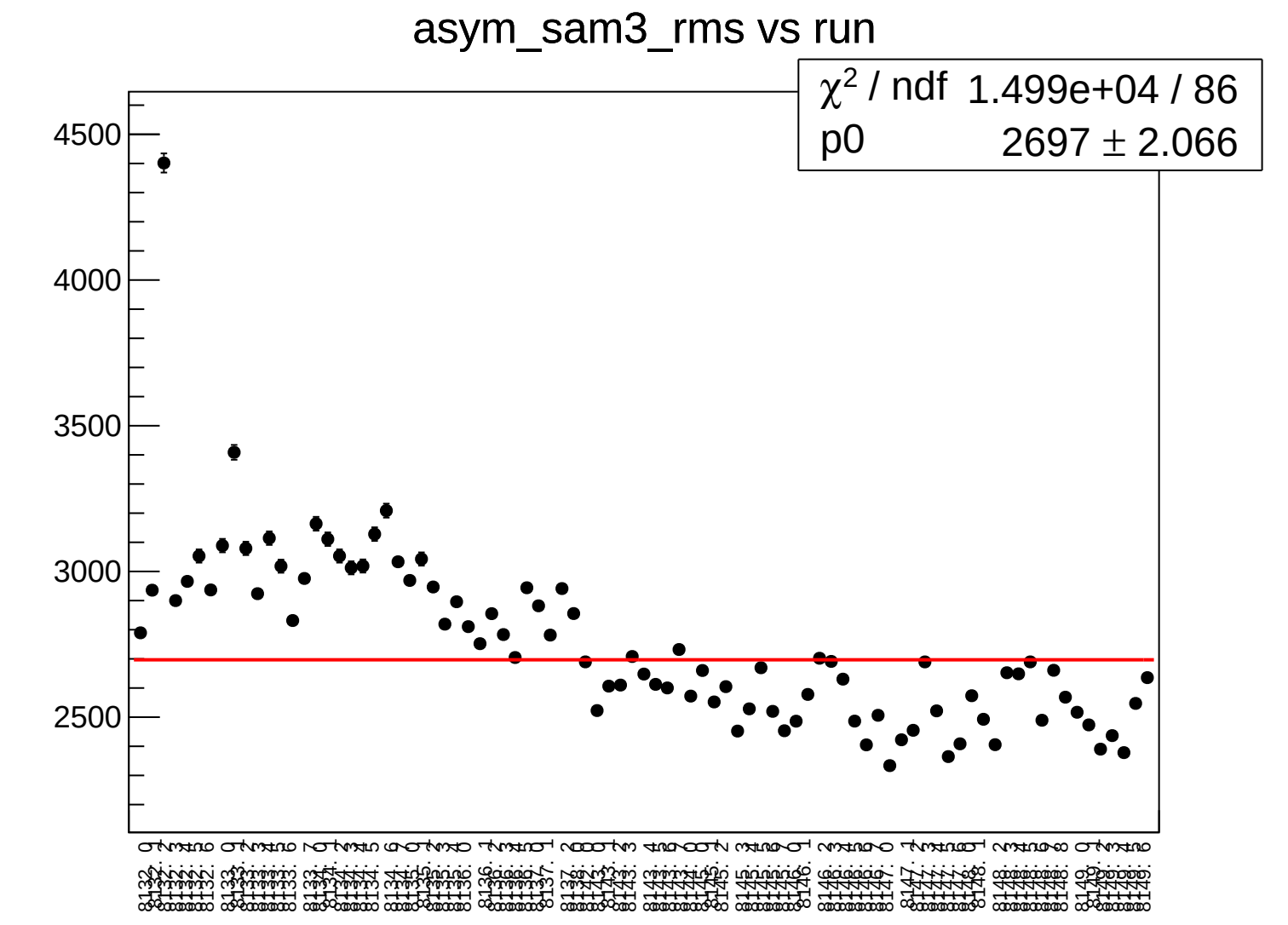

asym_sam3_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 88.36 / 86
p0 −3082 ± 2862
100
50
0
−50
−100
pull
Entries 87
Mean −308.4
Std Dev 0
2
1
0
−1
−2

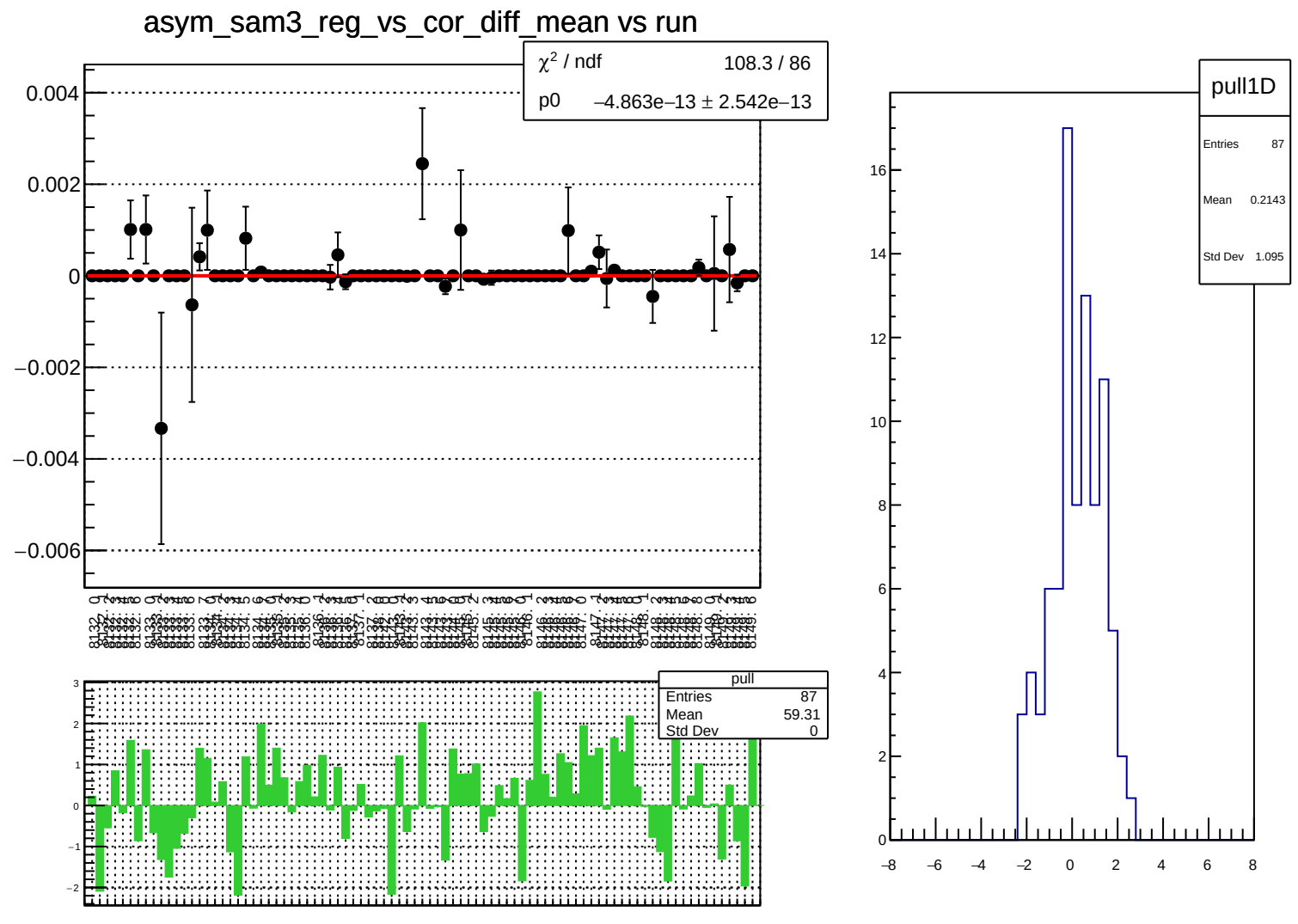

pull1D
Entries 87
Mean −0.009049
Std Dev 1.008
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

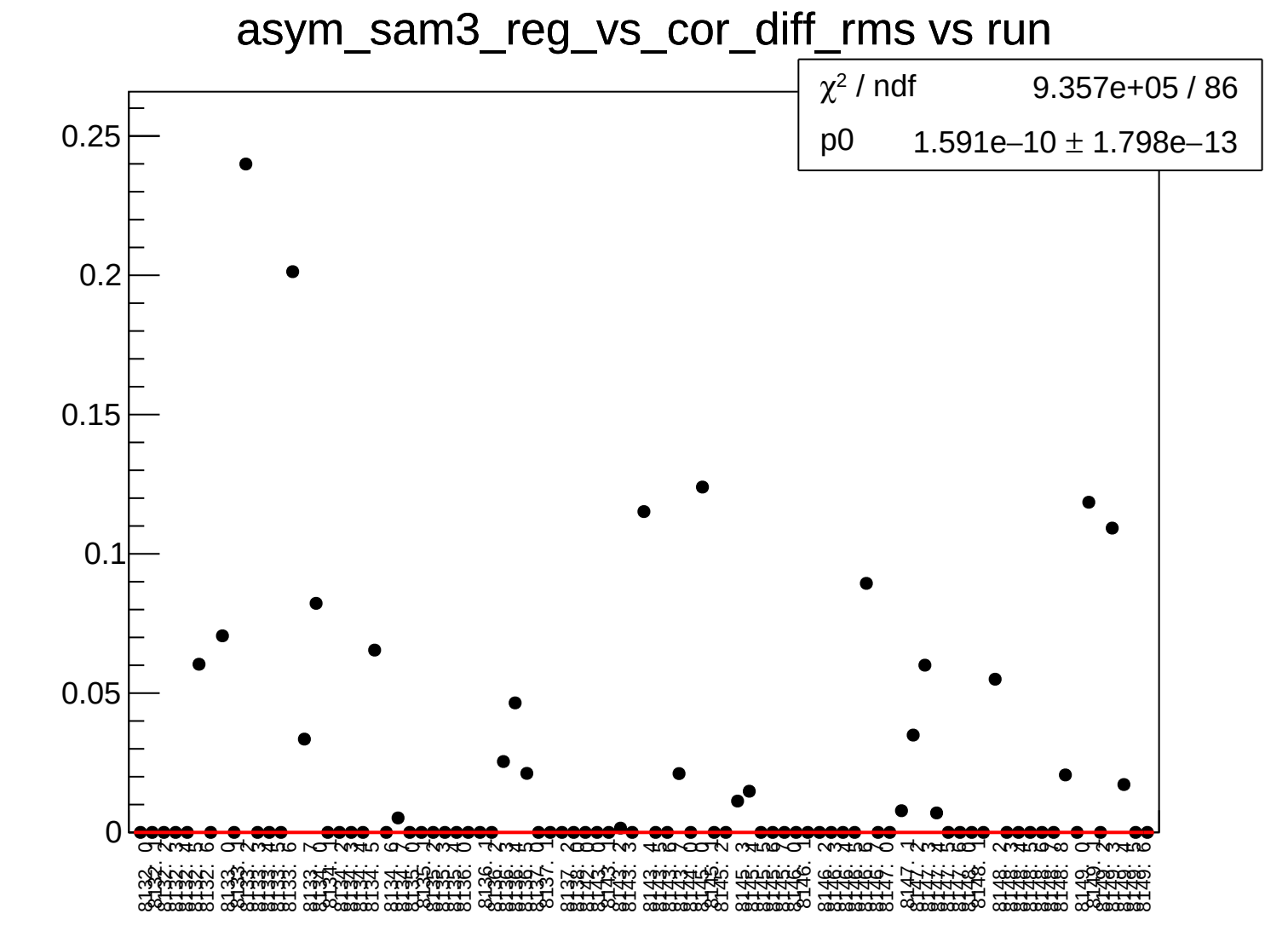

asym_sam3_eigen_dit_correction_rms vs run
χ² / ndf 1.564e+04 / 86
p0 2641 ± 2.024
4500
4000
3500
3000
2500

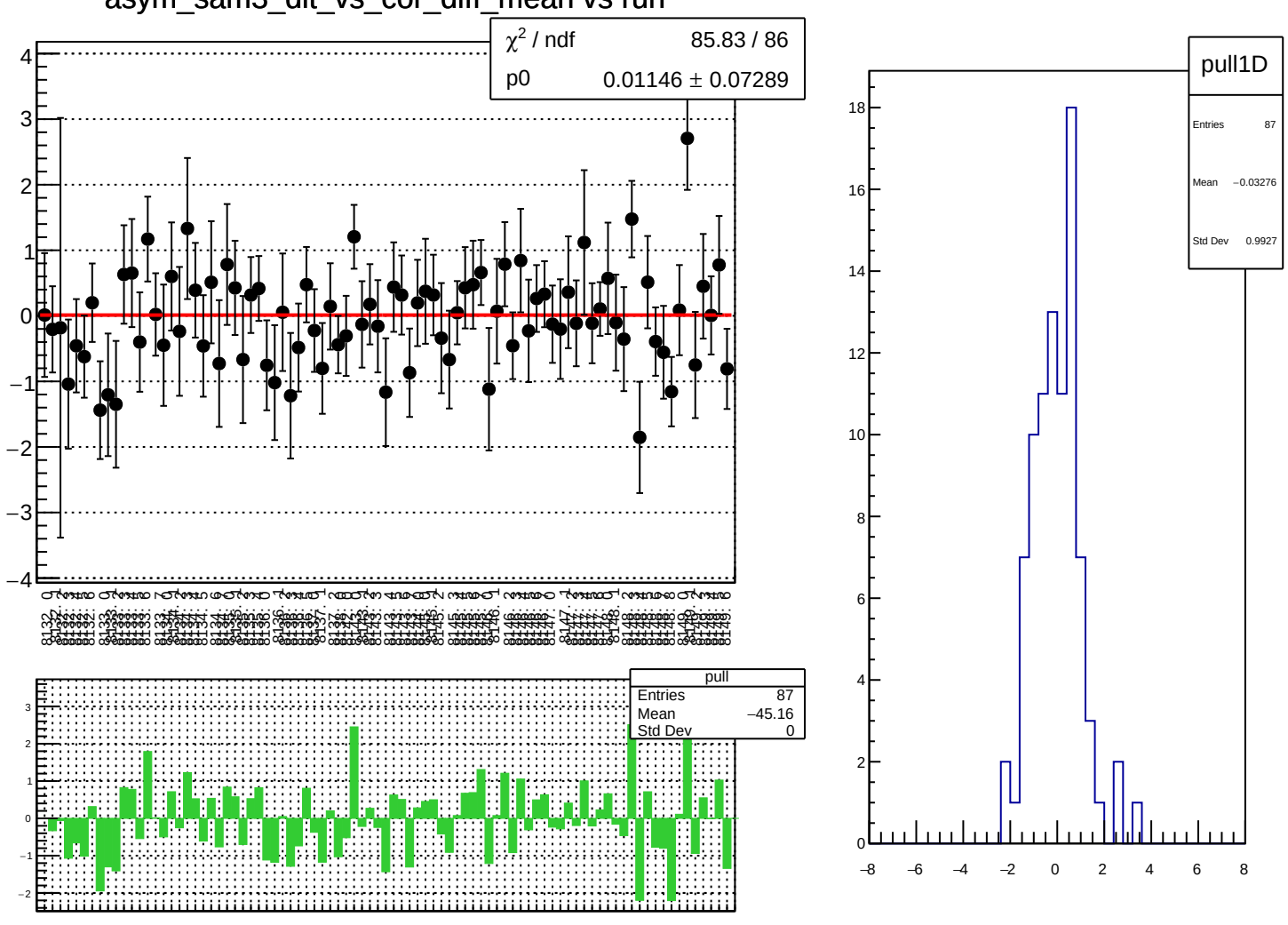

asym_sam3_mean vs run
×10^3
χ^2 / ndf 87.65 / 86
p0 2800 ± 2922
100
50
0
−50
−100
pull
Entries 87
Mean −333.2
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 87
Mean 0.007581
Std Dev 1.004
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

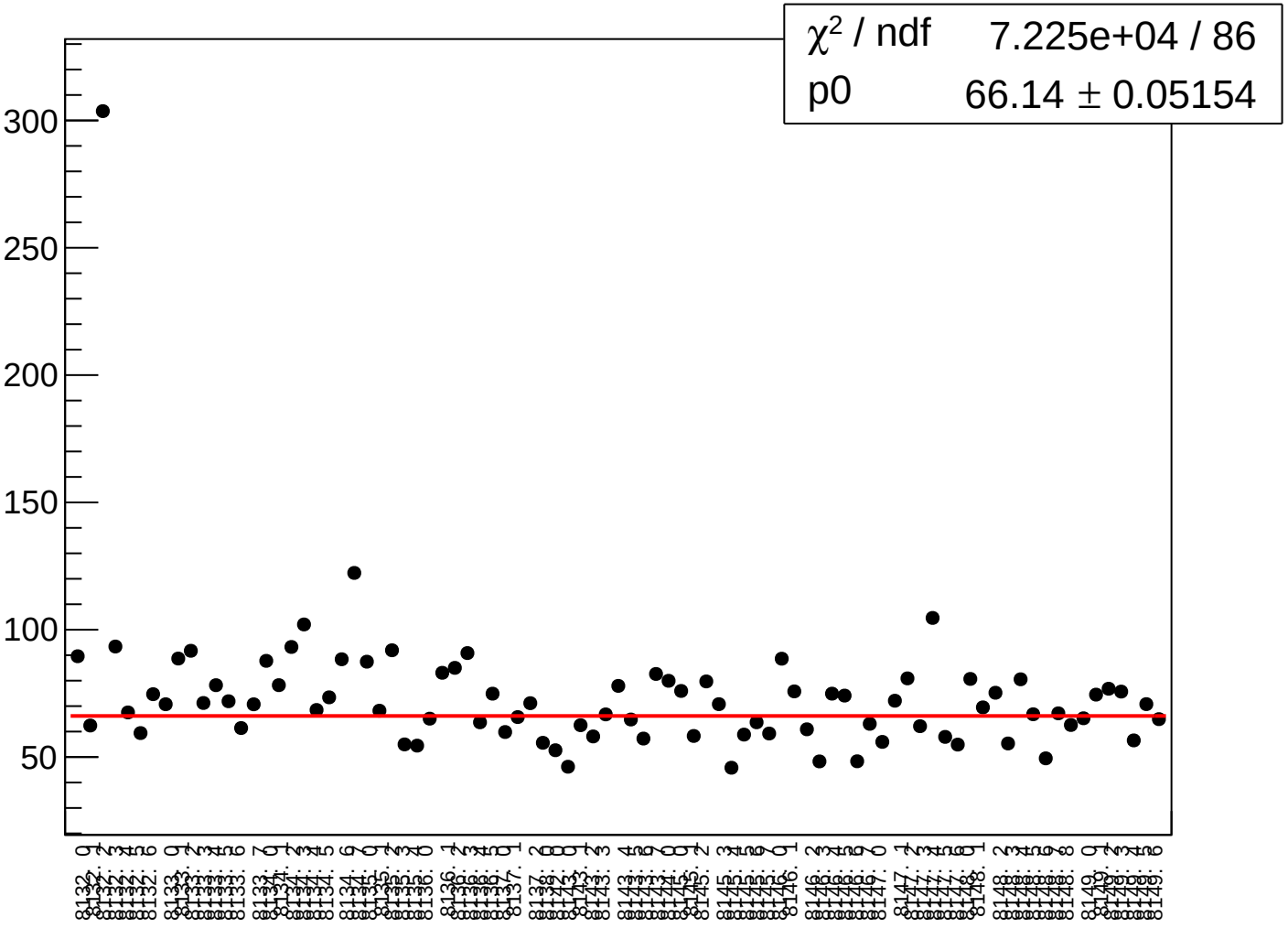

asym_sam3_rms vs run
χ^2 / ndf 1.499e+04 / 86
p0 2697 ± 2.066
4500
4000
3500
3000
2500

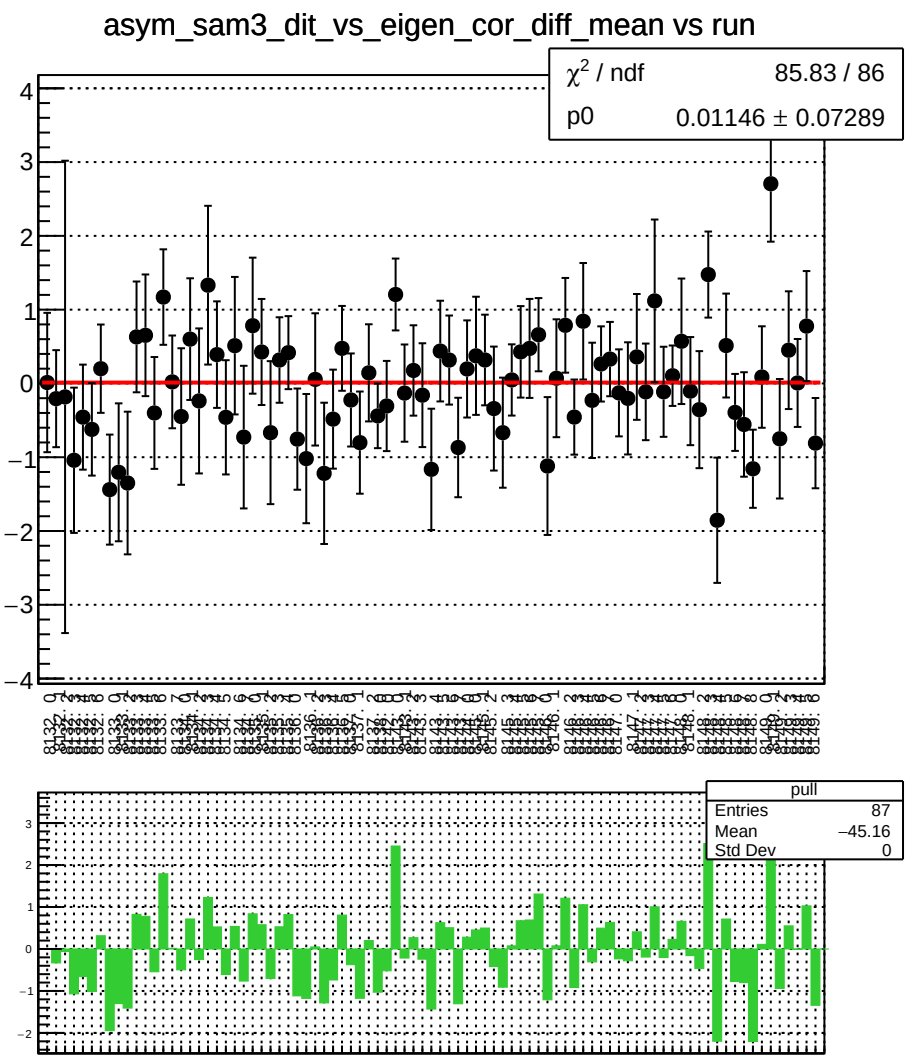

asym_sam3_reg_vs_cor_diff_mean vs run
χ² / ndf 108.3 / 86
p0 −4.863e−13 ± 2.542e−13
0.004
0.002
0
−0.002
−0.004
−0.006
pull
Entries 87
Mean 59.31
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.2143
Std Dev 1.095
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

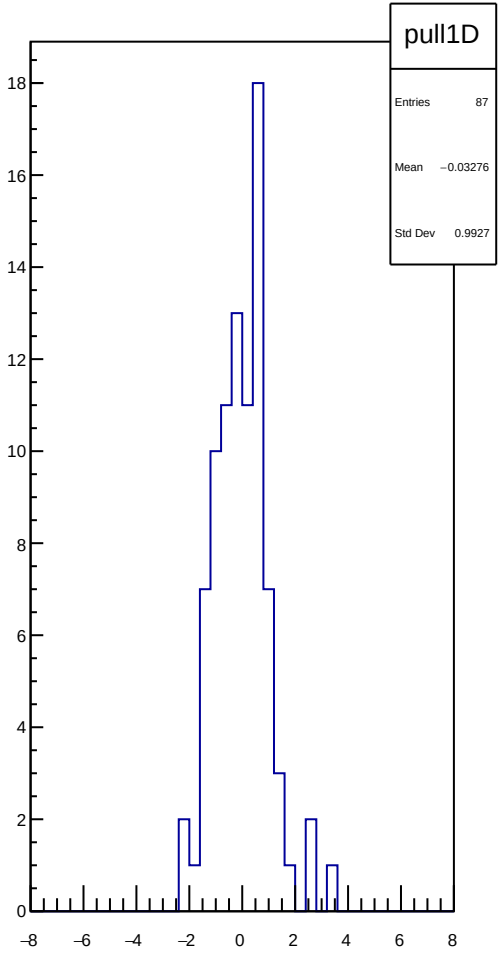

asym_sam3_reg_vs_cor_diff_rms vs run
χ² / ndf 9.357e+05 / 86
p0 1.591e−10 ± 1.798e−13
0.25
0.2
0.15
0.1
0.05
0

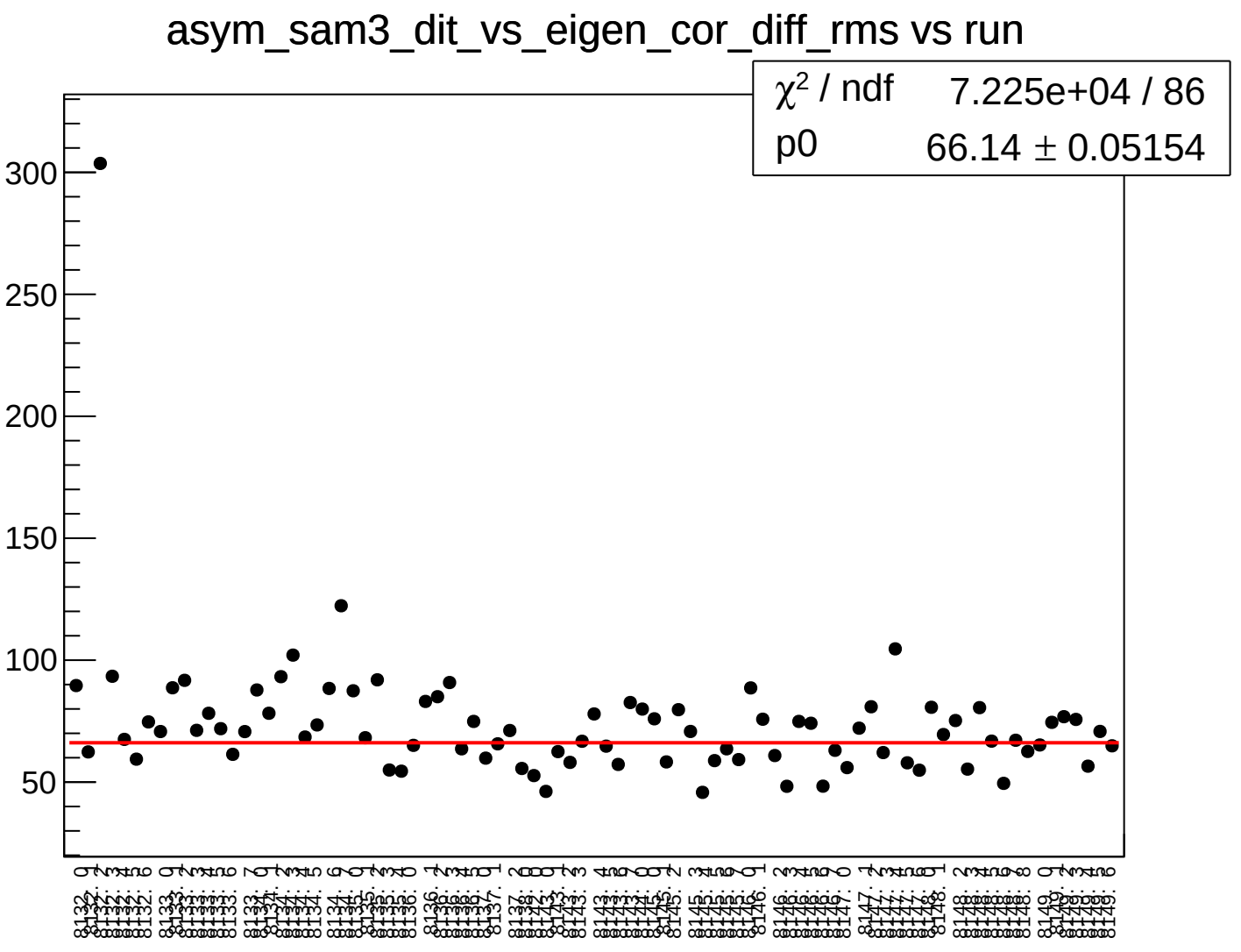

asym_sam3_dit_vs_cor_diff_mean vs run
χ² / ndf 85.83 / 86
p0 0.01146 ± 0.07289
pull
Entries 87
Mean −45.16
Std Dev 0
pull1D
Entries 87
Mean −0.03276
Std Dev 0.9927

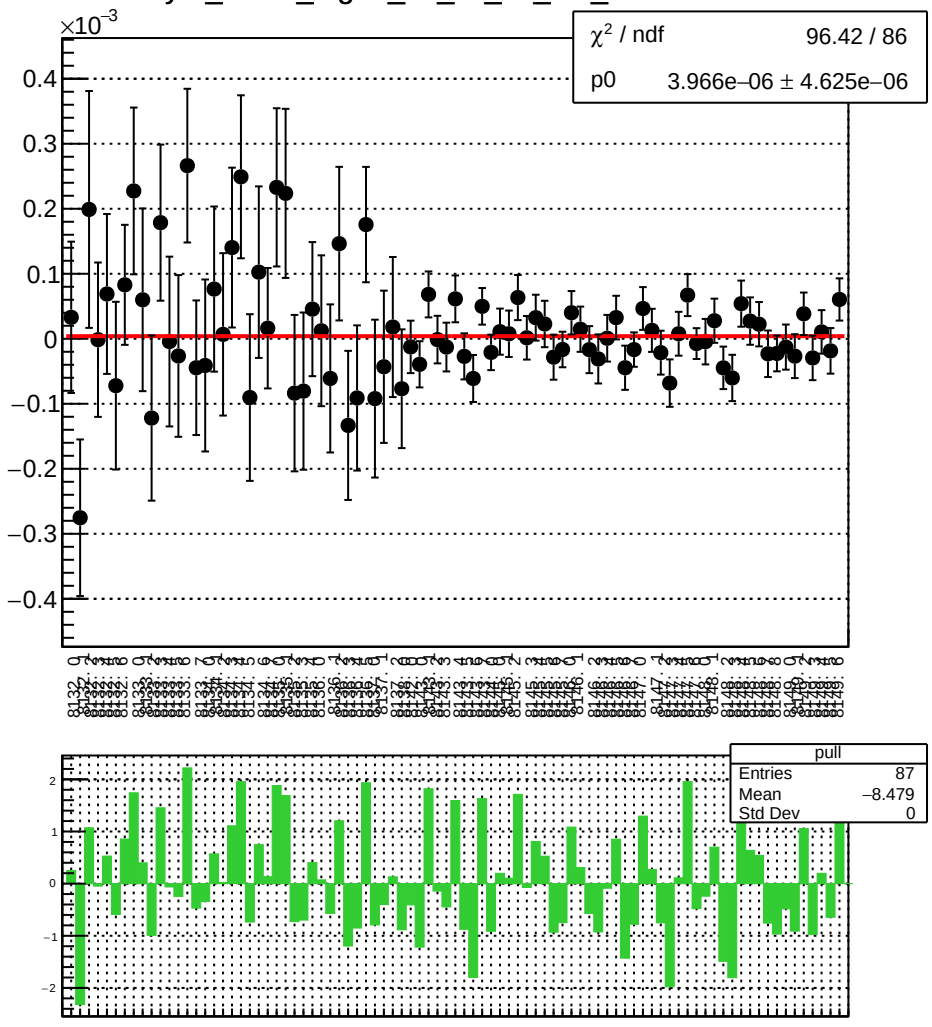
asym_sam3_dit_vs_cor_diff_rms vs run

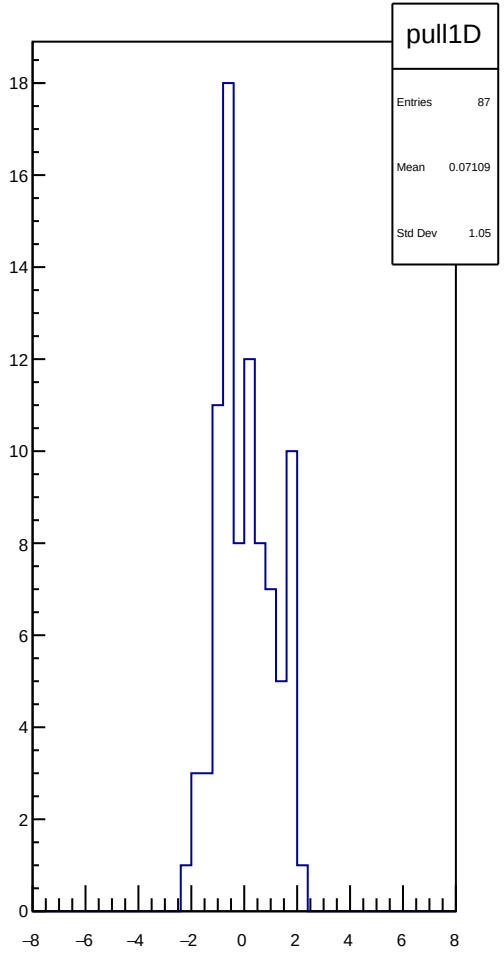


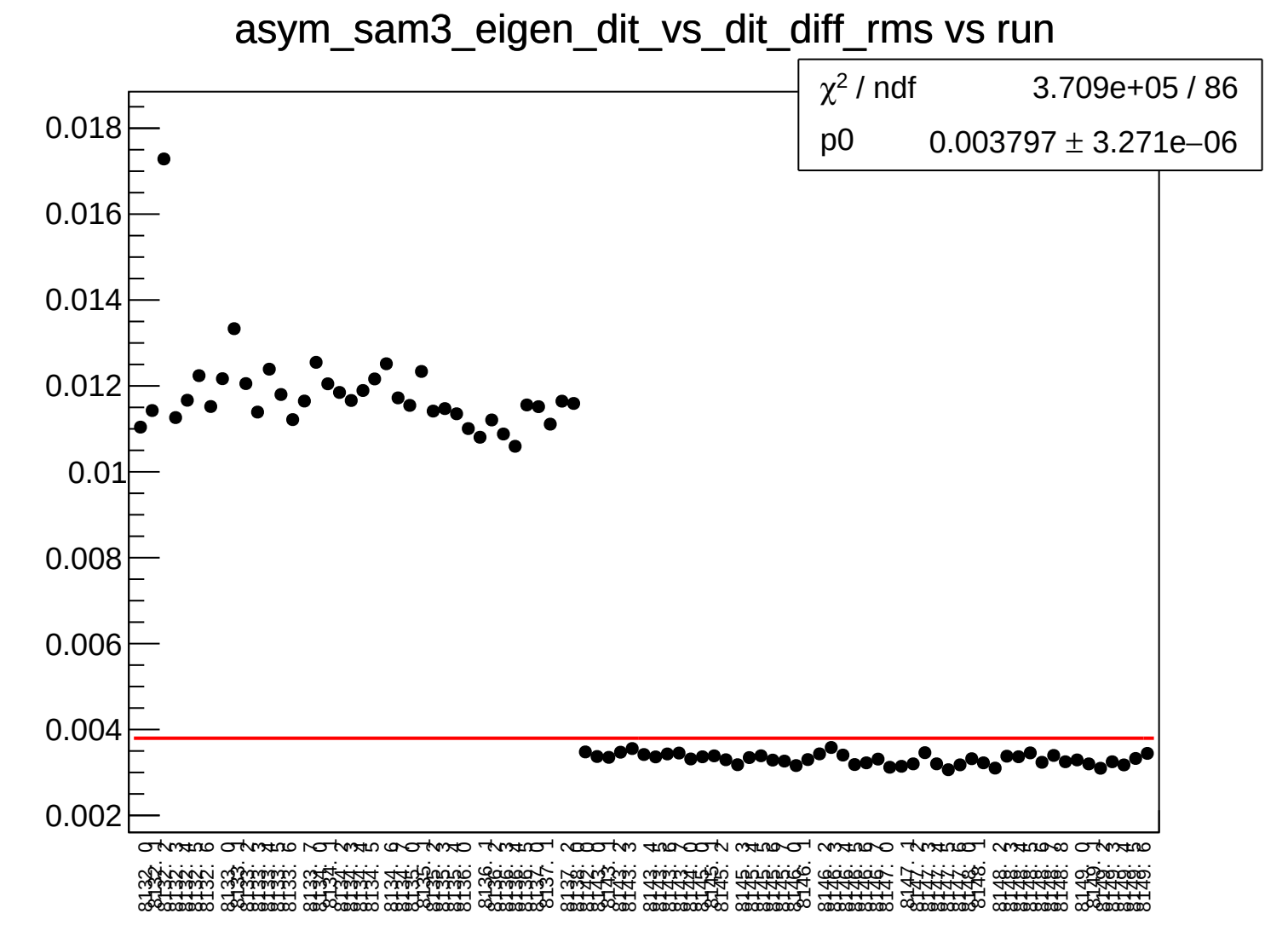

asym_sam3_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.83 / 86
p0 0.01146 ± 0.07289
pull
Entries 87
Mean −45.16
Std Dev 0

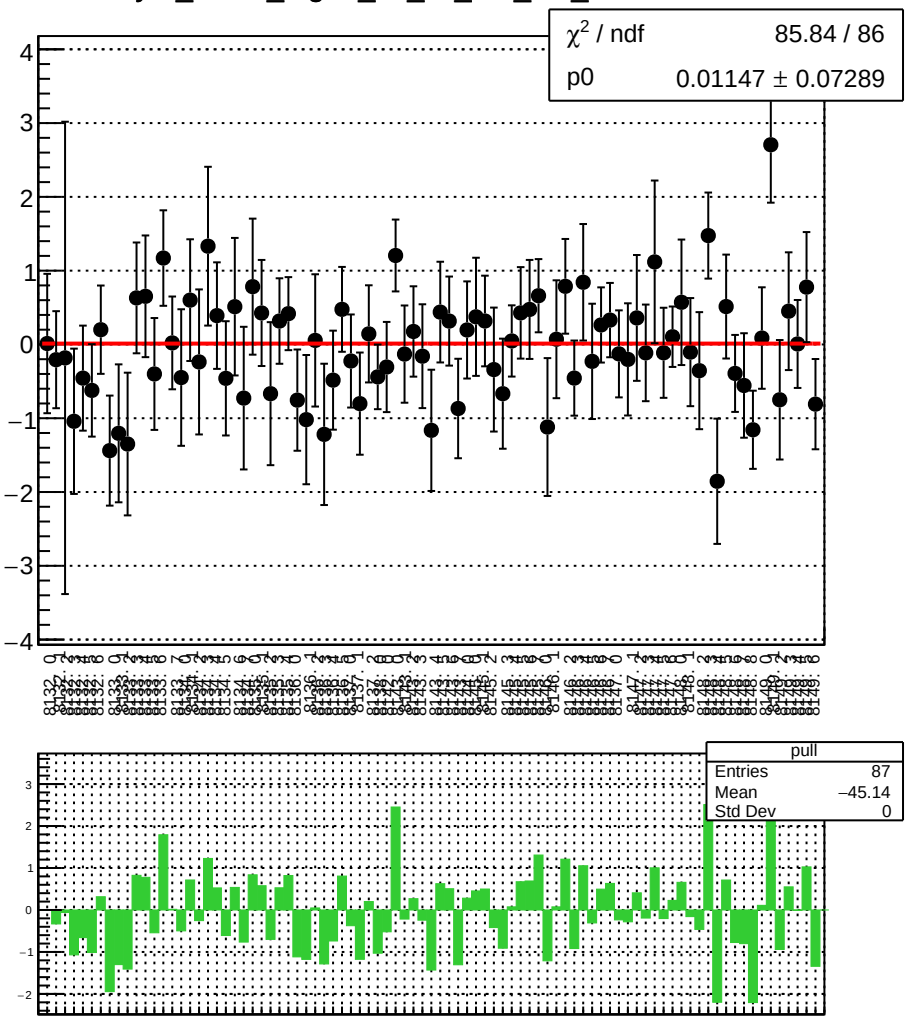

pull1D
Entries 87
Mean −0.03276
Std Dev 0.9927

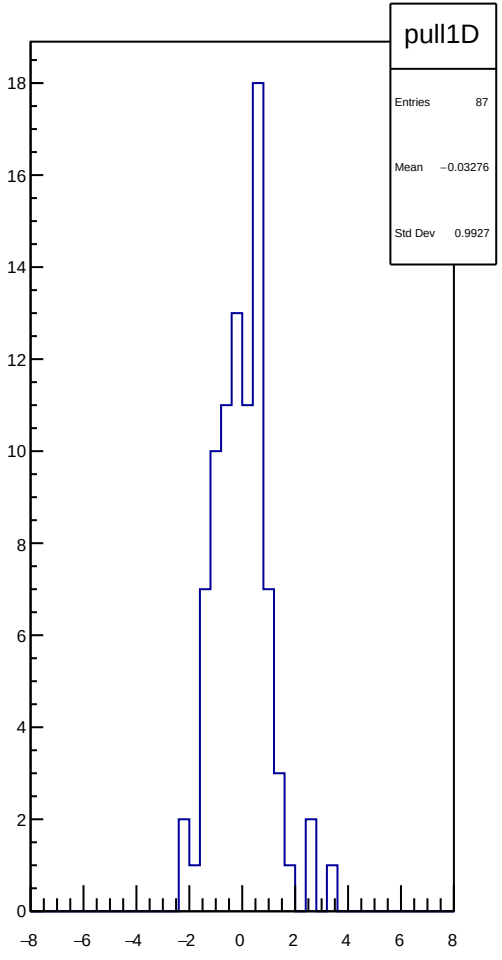

asym_sam3_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.225e+04 / 86
p0 66.14 ± 0.05154
300
250
200
150
100
50

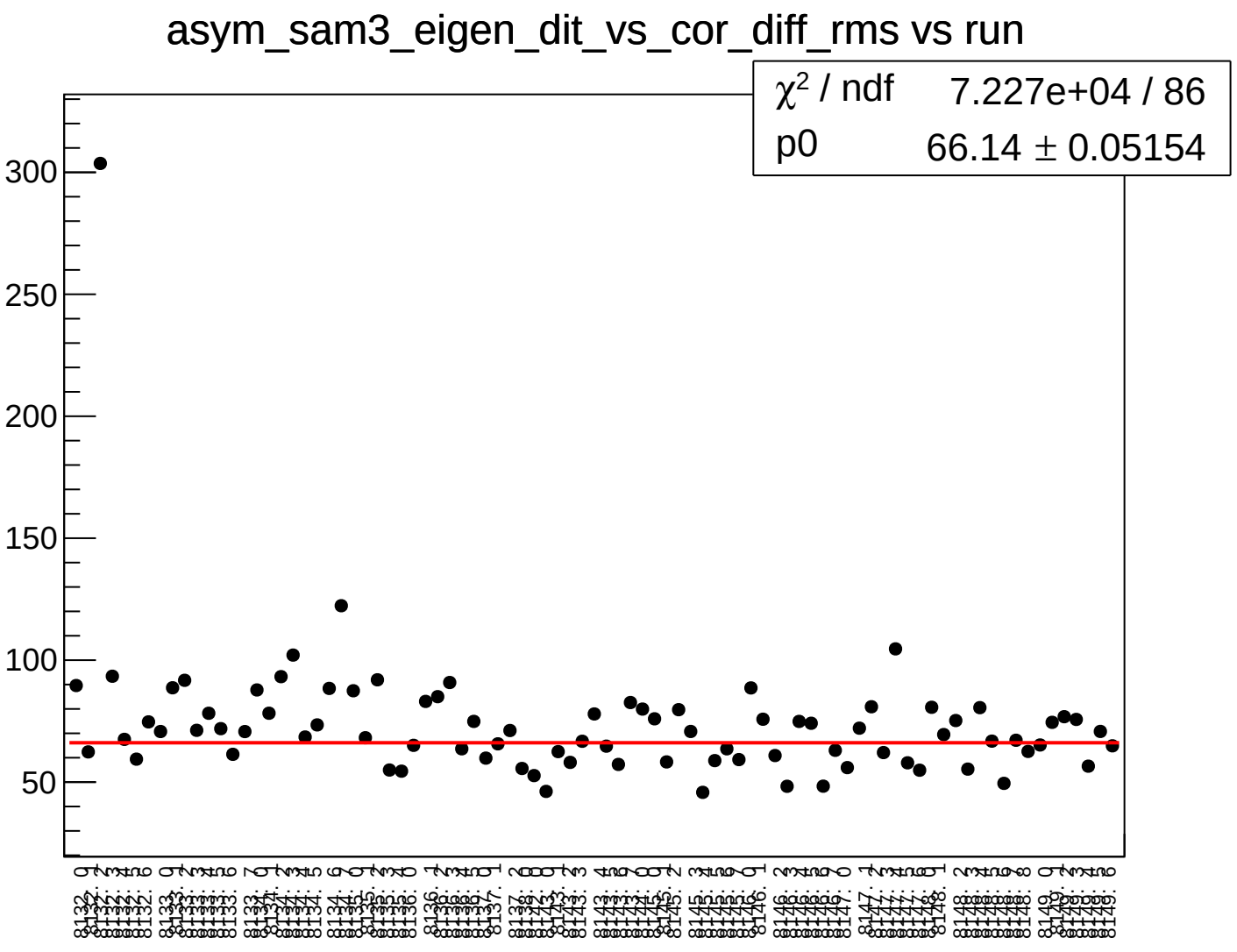

asym_sam3_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.42 / 86
p0 3.966e−06 ± 4.625e−06
pull
Entries 87
Mean −8.479
Std Dev 0

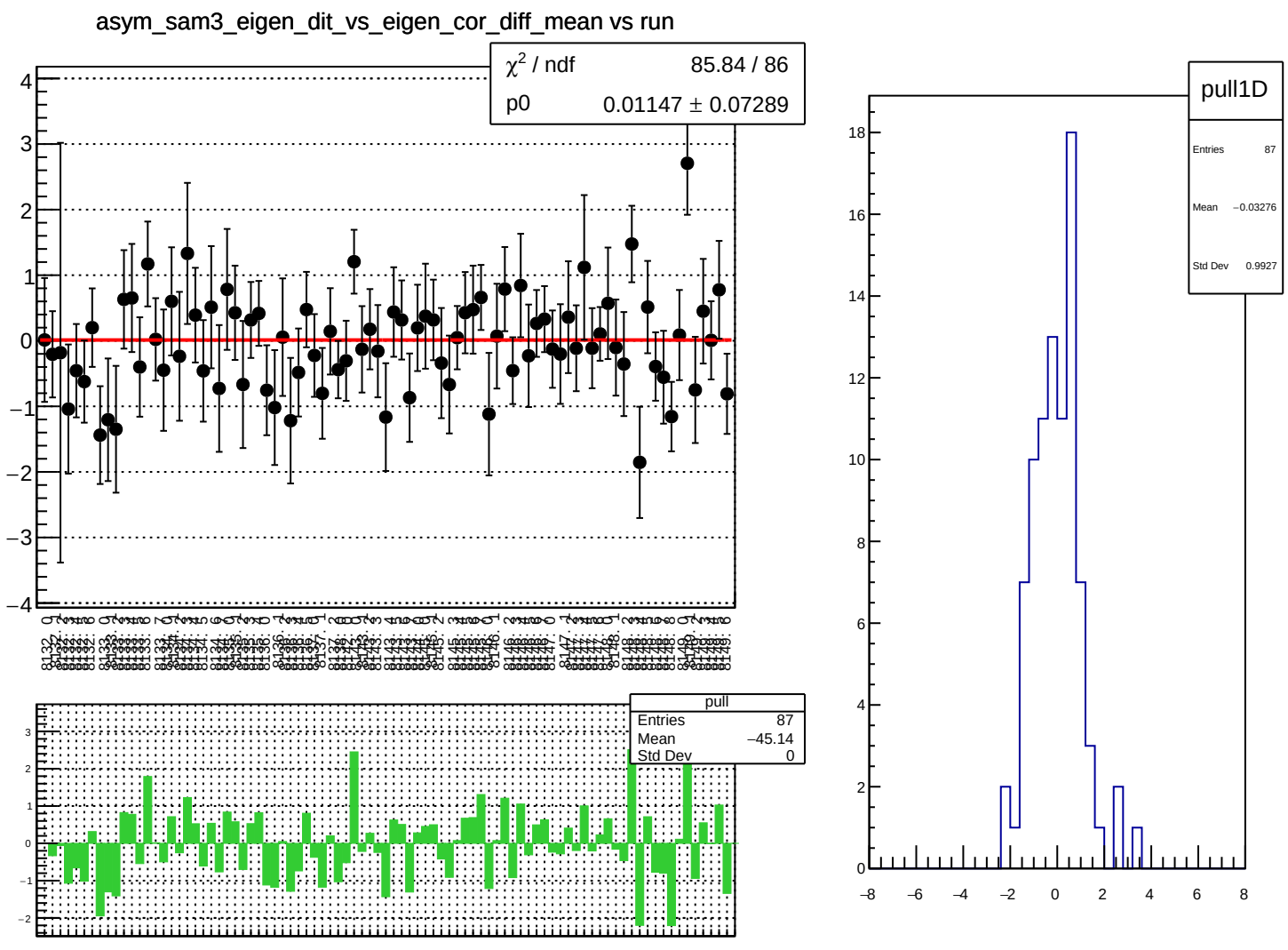

pull1D
Entries 87
Mean 0.07109
Std Dev 1.05

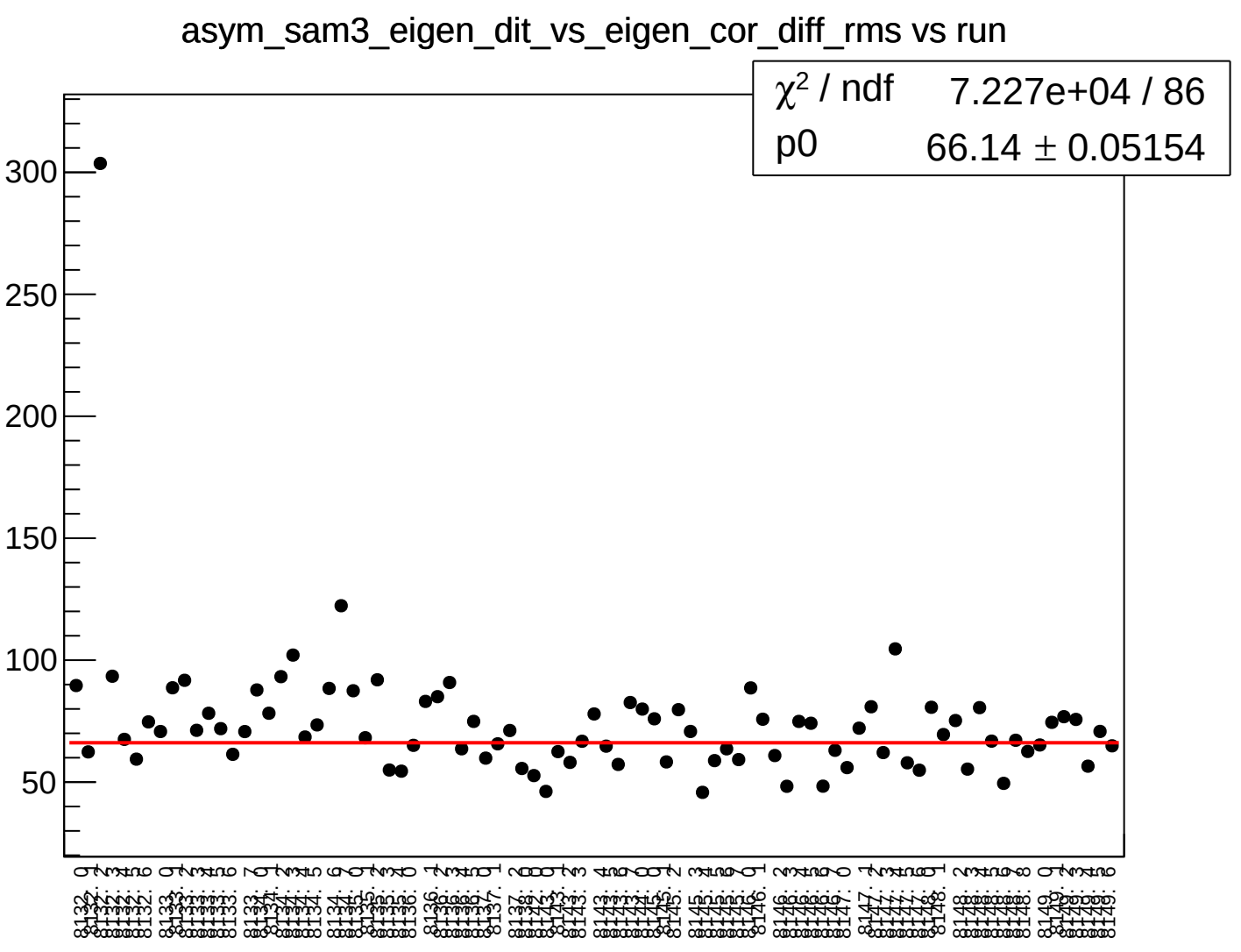

asym_sam3_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.709e+05 / 86
p0 0.003797 ± 3.271e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

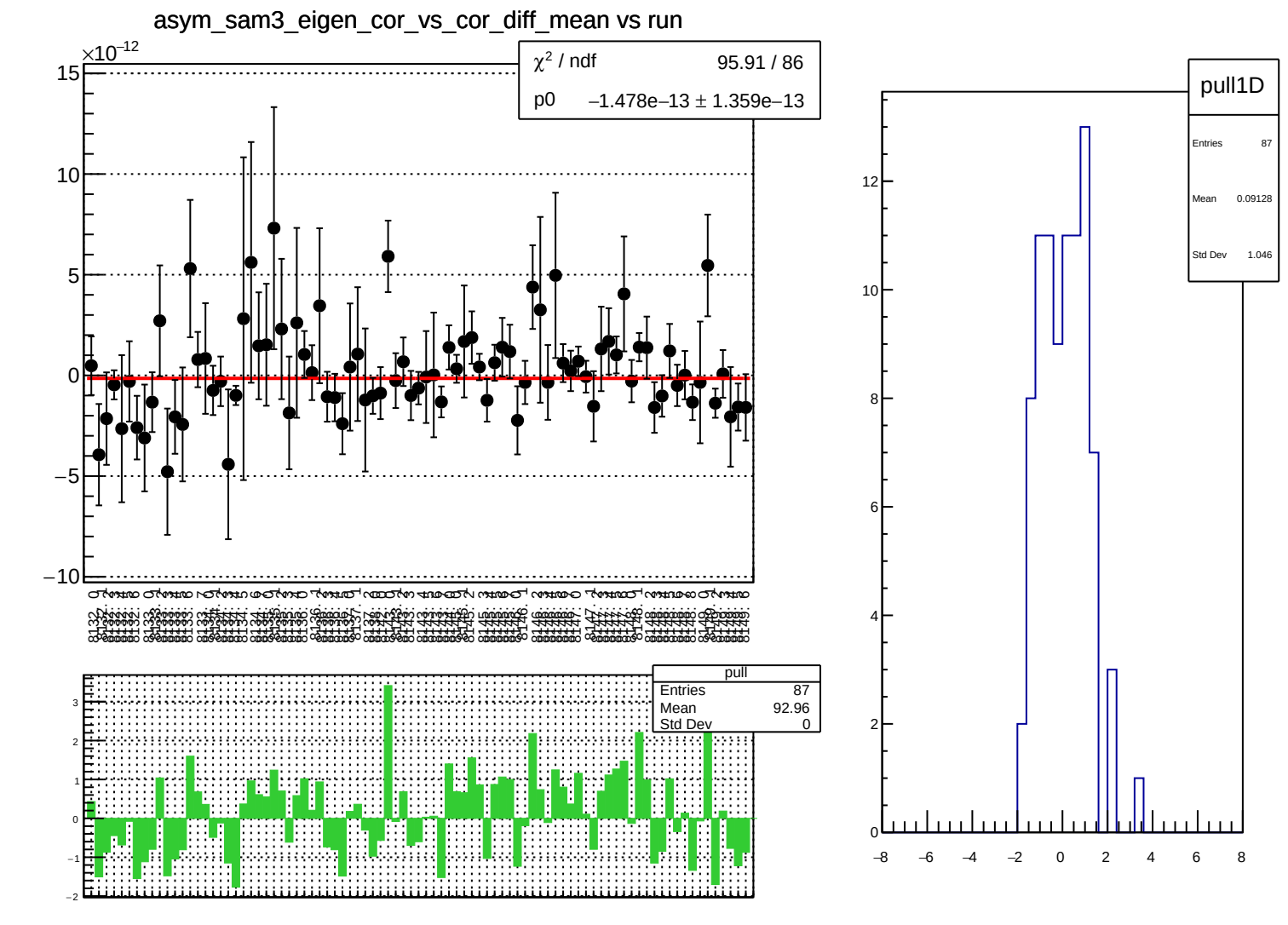

asym_sam3_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.84 / 86
p0 0.01147 ± 0.07289
pull
Entries 87
Mean −45.14
Std Dev 0

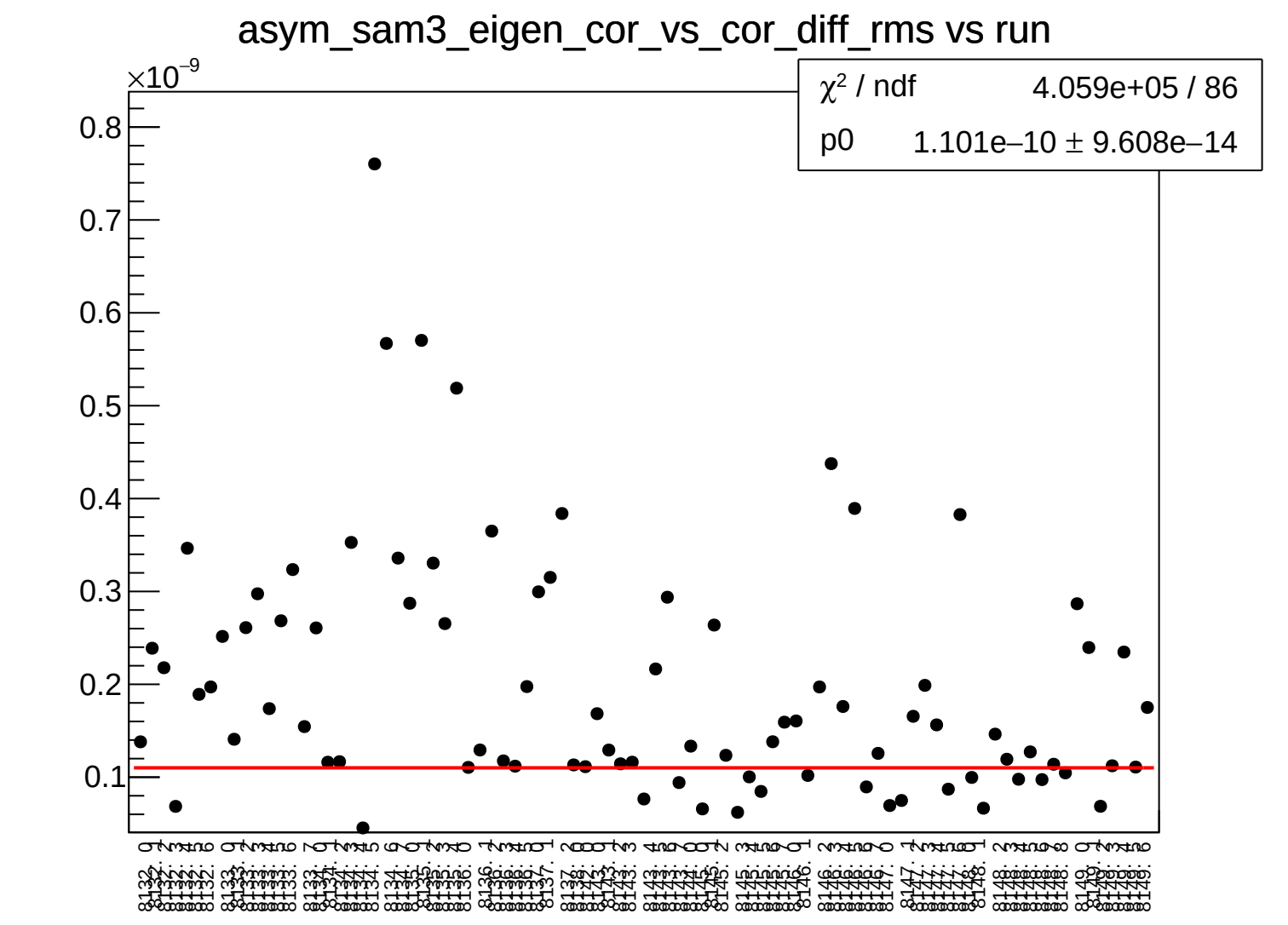

pull1D
Entries 87
Mean −0.03276
Std Dev 0.9927

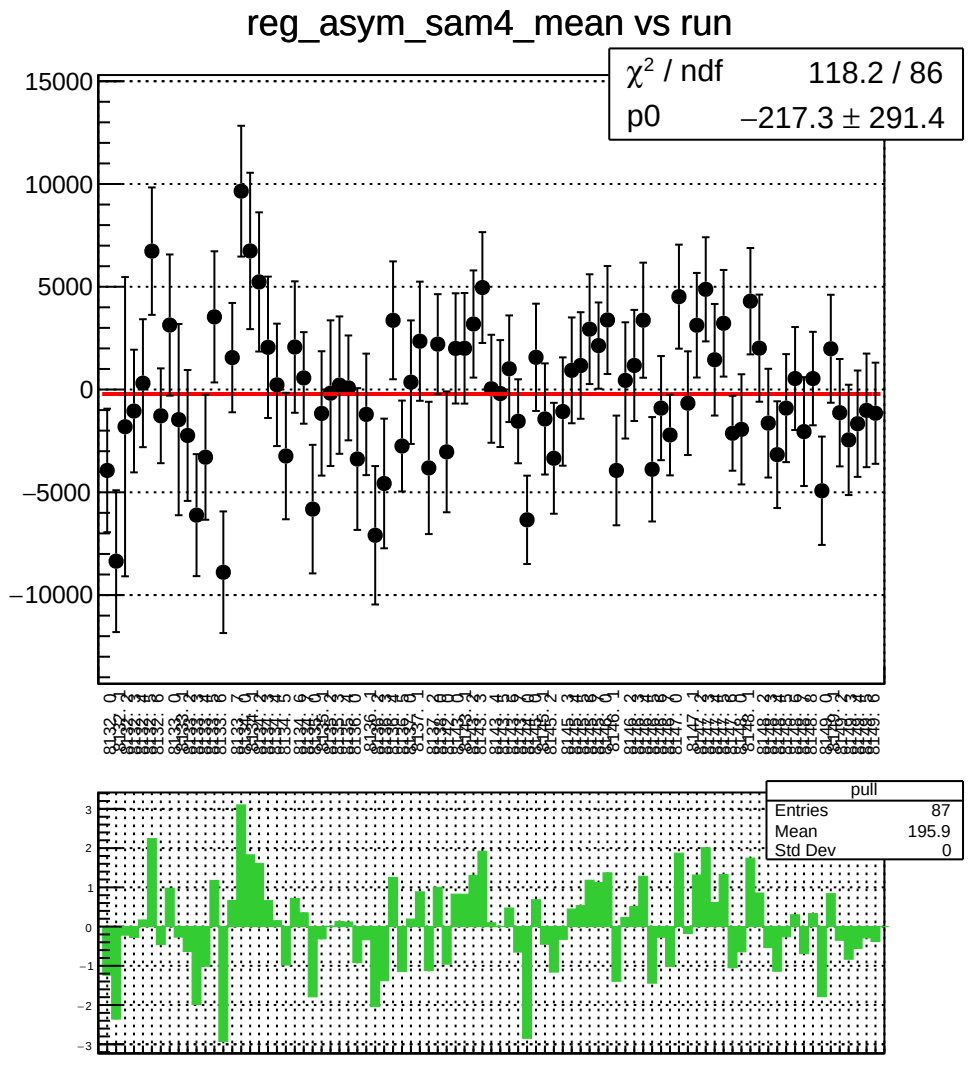

asym_sam3_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.227e+04 / 86
p0 66.14 ± 0.05154
300
250
200
150
100
50

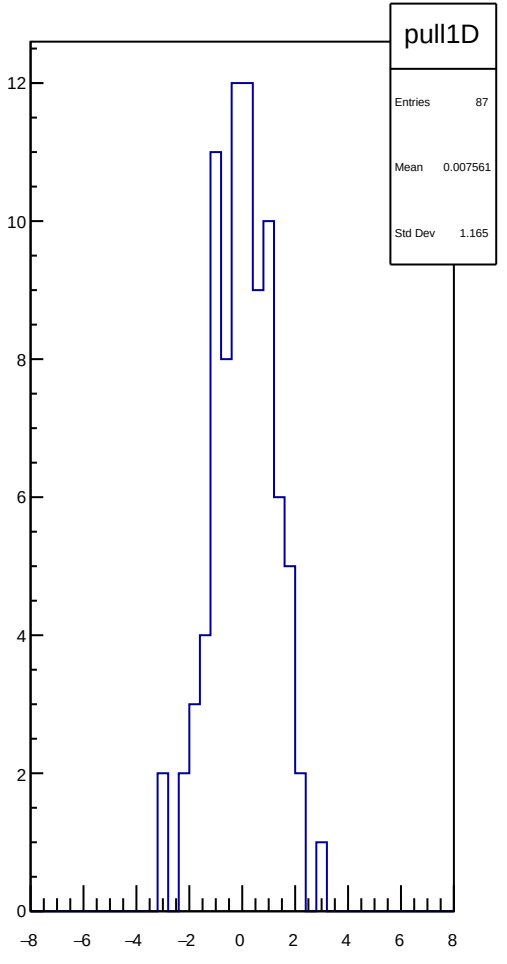

asym_sam3_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.84 / 86
p0 0.01147 ± 0.07289
pull
Entries 87
Mean −45.14
Std Dev 0
pull1D
Entries 87
Mean −0.03276
Std Dev 0.9927

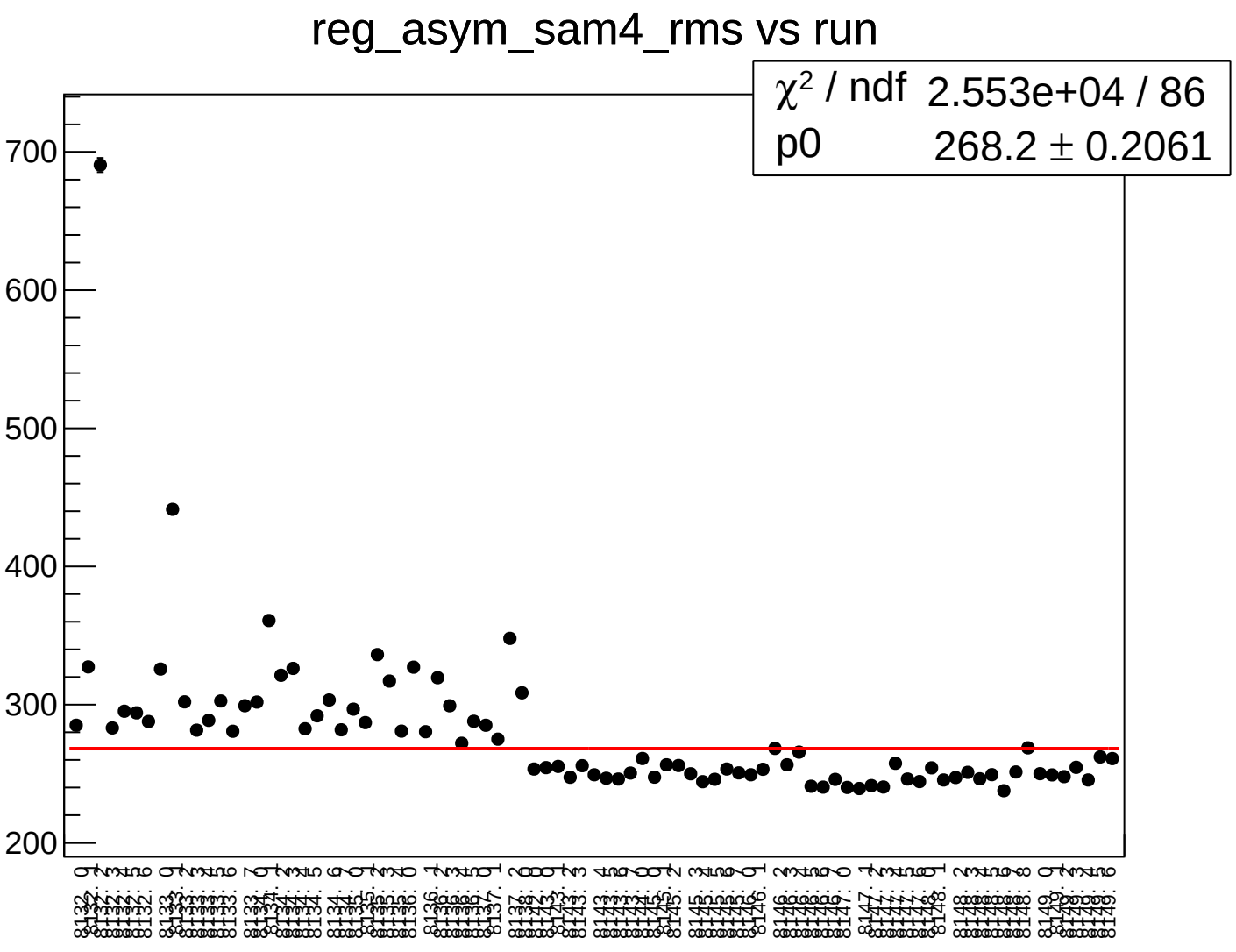

asym_sam3_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.227e+04 / 86
p0 66.14 ± 0.05154
300
250
200
150
100
50

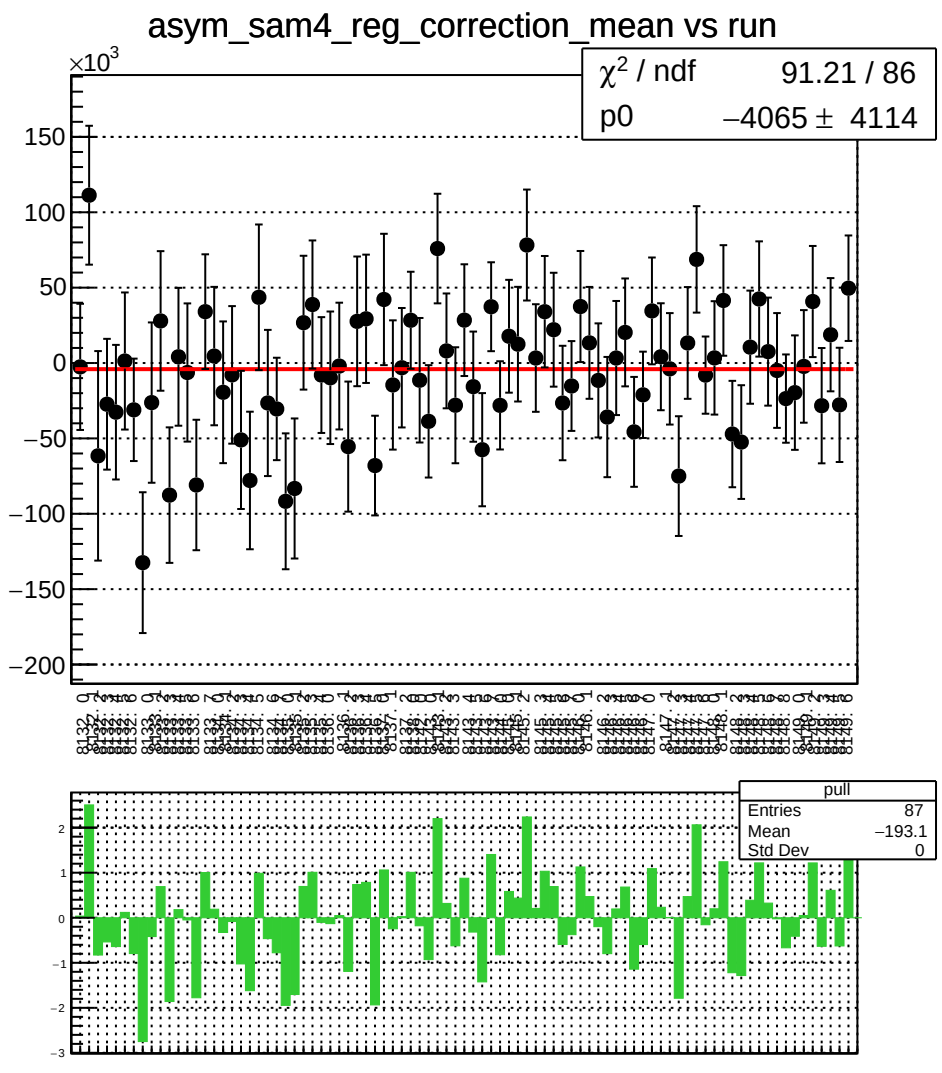

asym_sam3_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.91 / 86
p0 −1.478e−13 ± 1.359e−13
pull
Entries 87
Mean 92.96
Std Dev 0
pull1D
Entries 87
Mean 0.09128
Std Dev 1.046

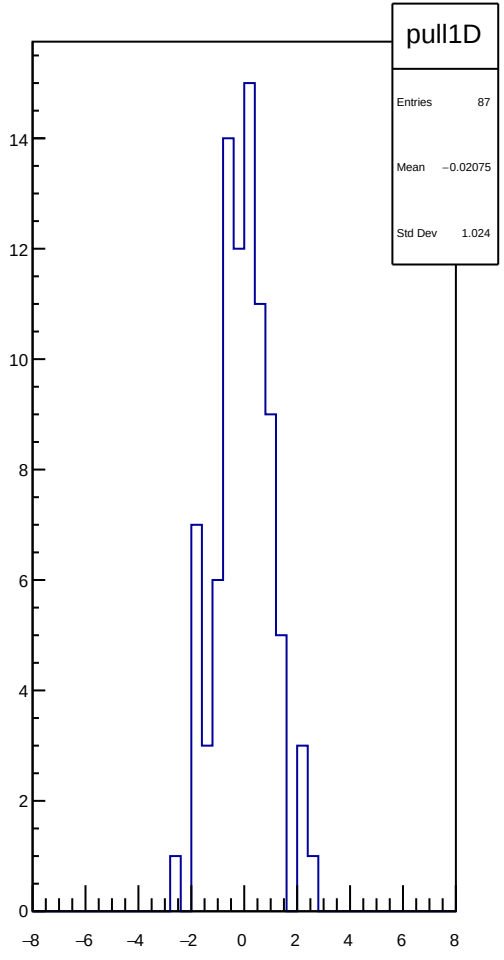

asym_sam3_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.059e+05 / 86
p0 1.101e−10 ± 9.608e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1


reg_asym_sam4_mean vs run
χ² / ndf 118.2 / 86
p0 −217.3 ± 291.4
15000
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 195.9
Std Dev 0
3
2
1
0
−1
−2
−3

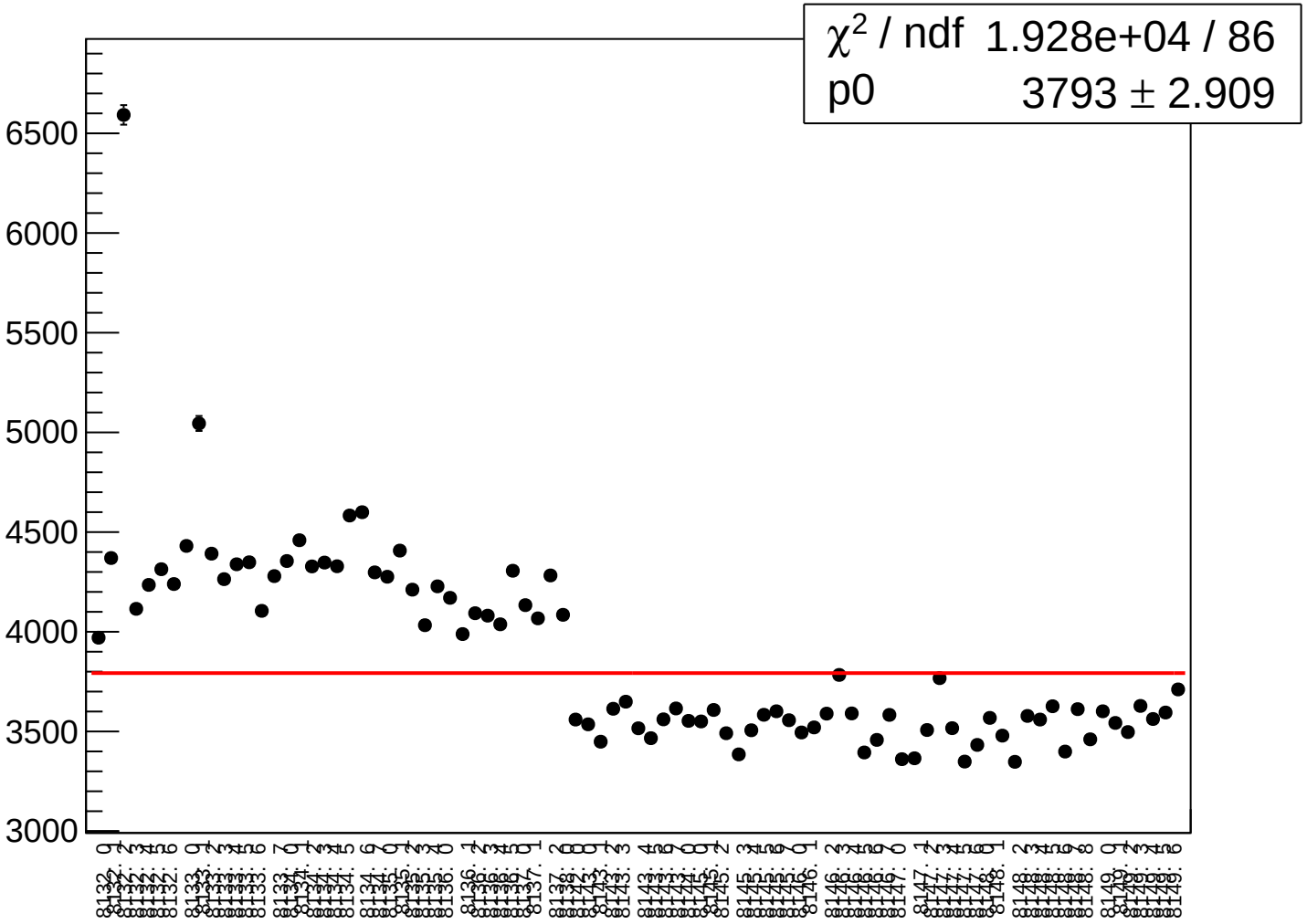

pull1D
Entries 87
Mean 0.007561
Std Dev 1.165
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

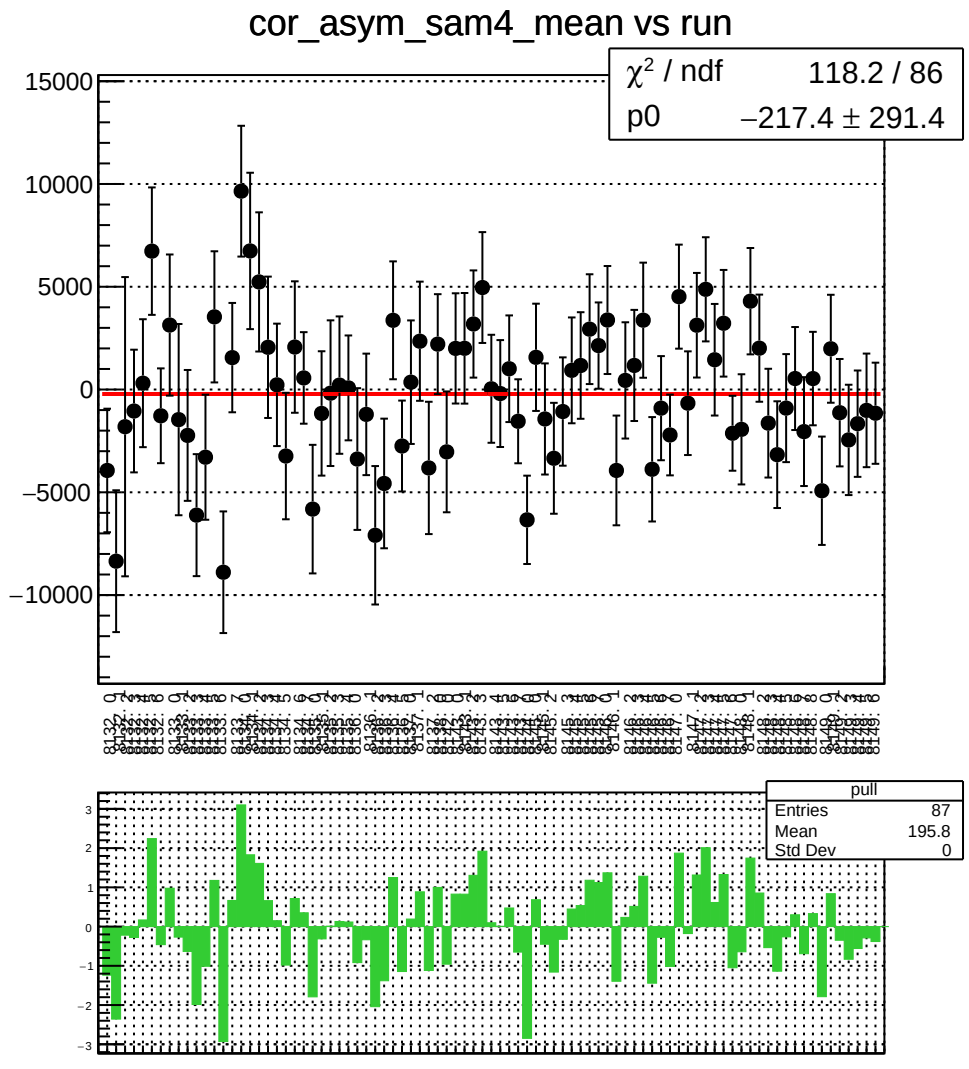

reg_asym_sam4_rms vs run
χ² / ndf 2.553e+04 / 86
p0 268.2 ± 0.2061
700
600
500
400
300
200

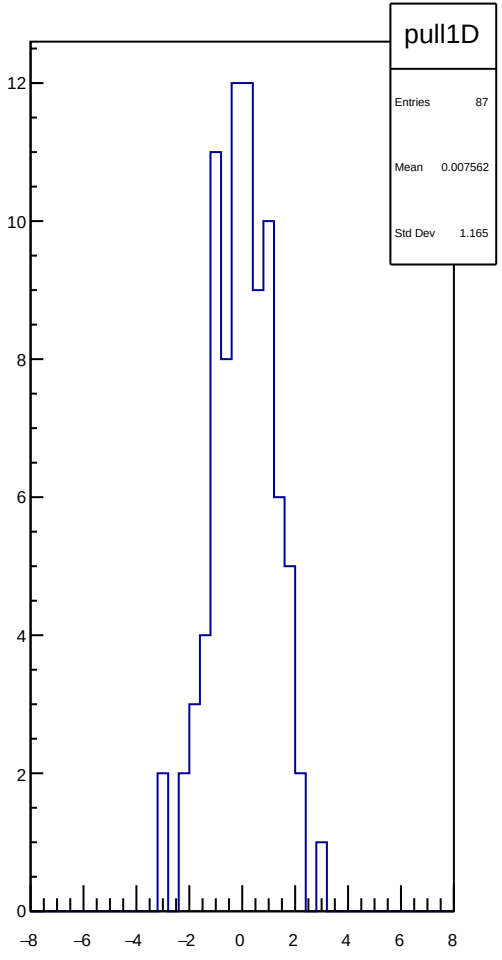

asym_sam4_reg_correction_mean vs run
×10^3
χ^2 / ndf 91.21 / 86
p0 −4065 ± 4114
150
100
50
0
−50
−100
−150
−200
pull
Entries 87
Mean −193.1
Std Dev 0
2
1
0
−1
−2
−3

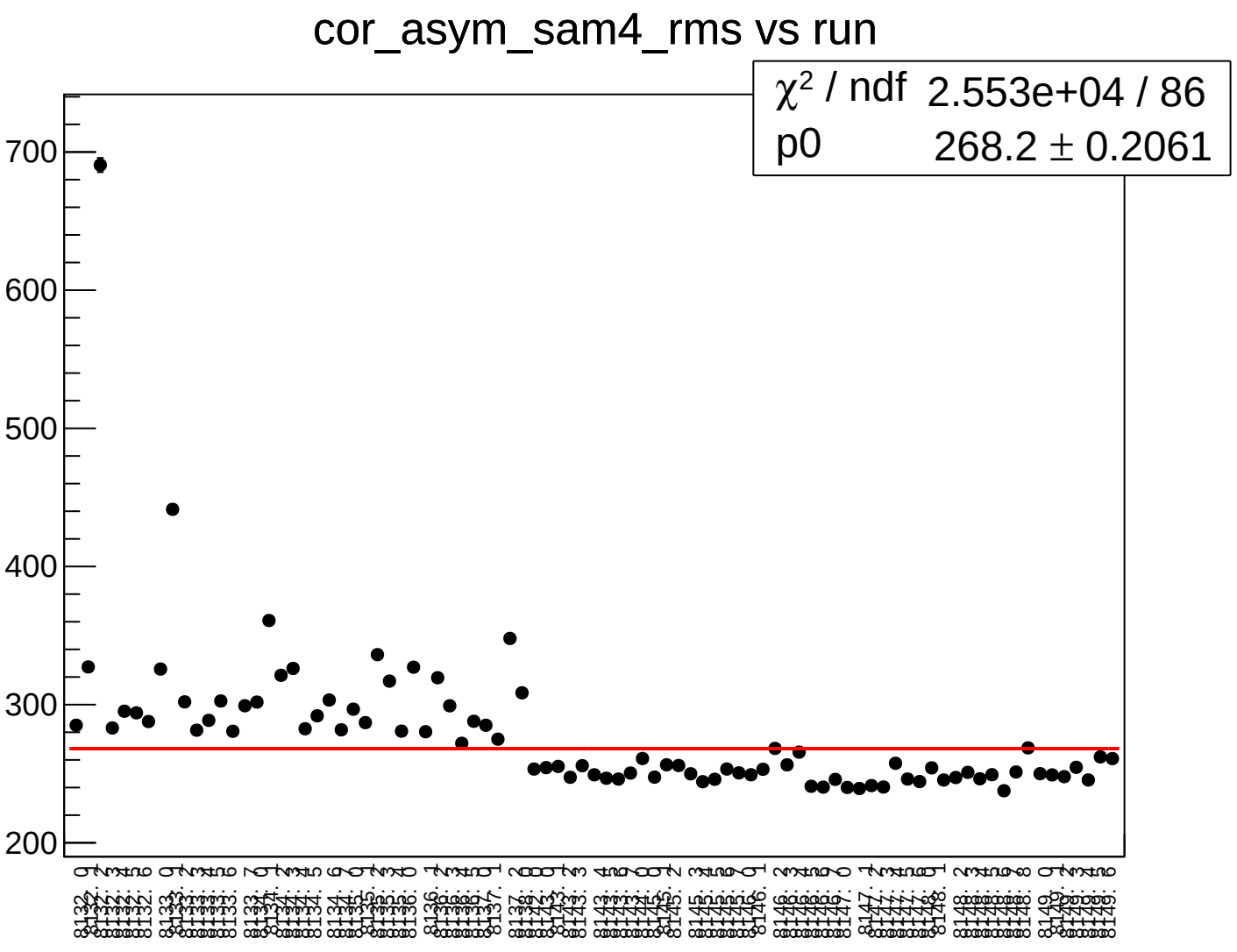

pull1D
Entries 87
Mean −0.02075
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

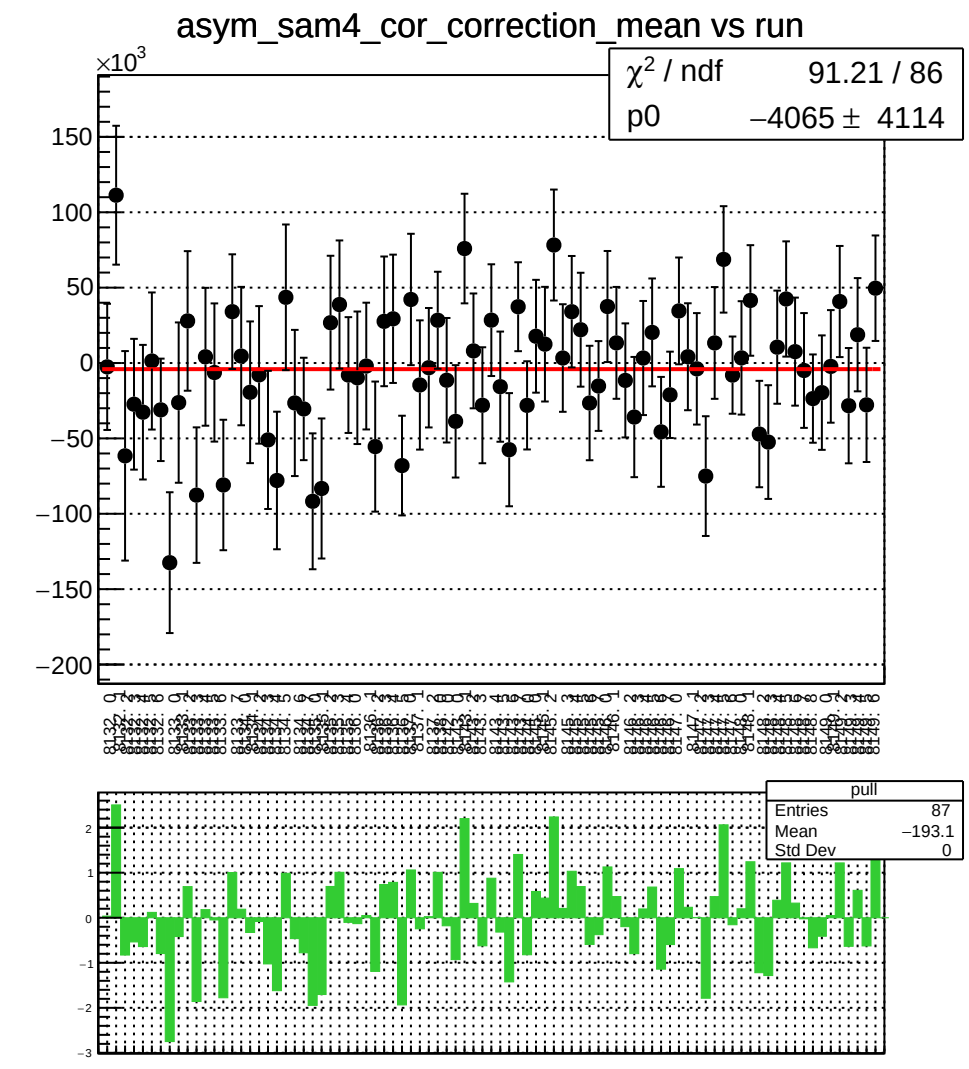
asym_sam4_reg_correction_rms vs run

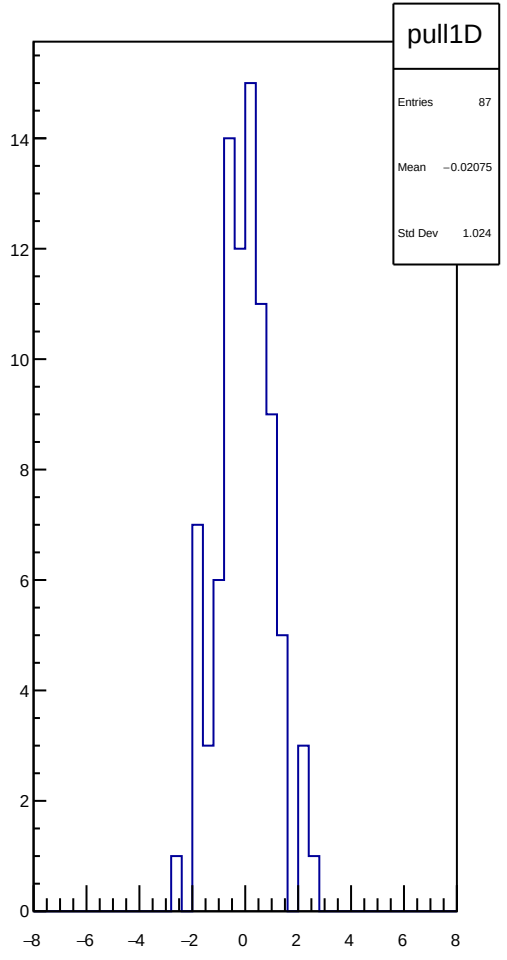



cor_asym_sam4_mean vs run
χ² / ndf 118.2 / 86
p0 −217.4 ± 291.4
15000
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 195.8
Std Dev 0
3
2
1
0
−1
−2
−3

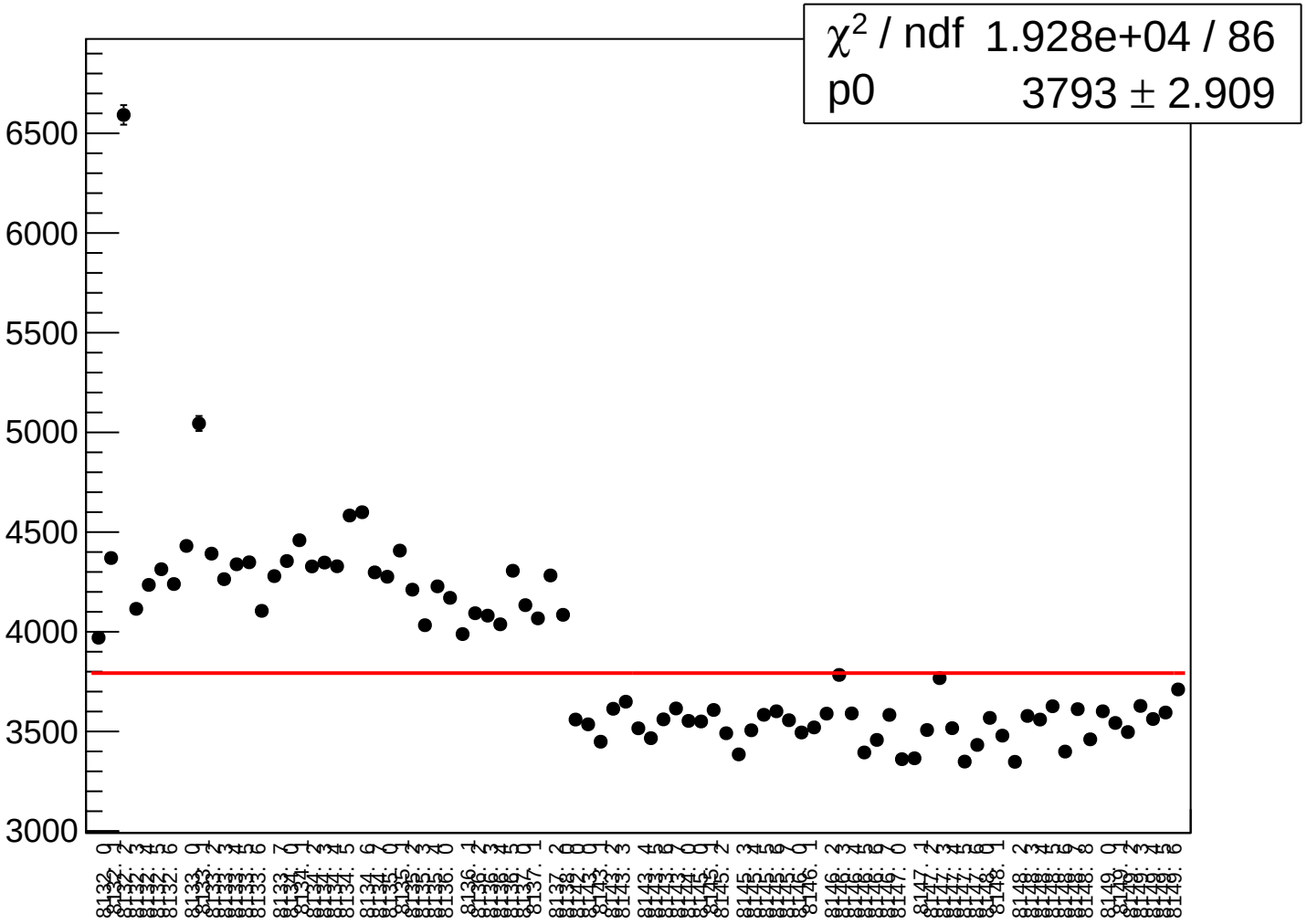

pull1D
Entries 87
Mean 0.007562
Std Dev 1.165
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

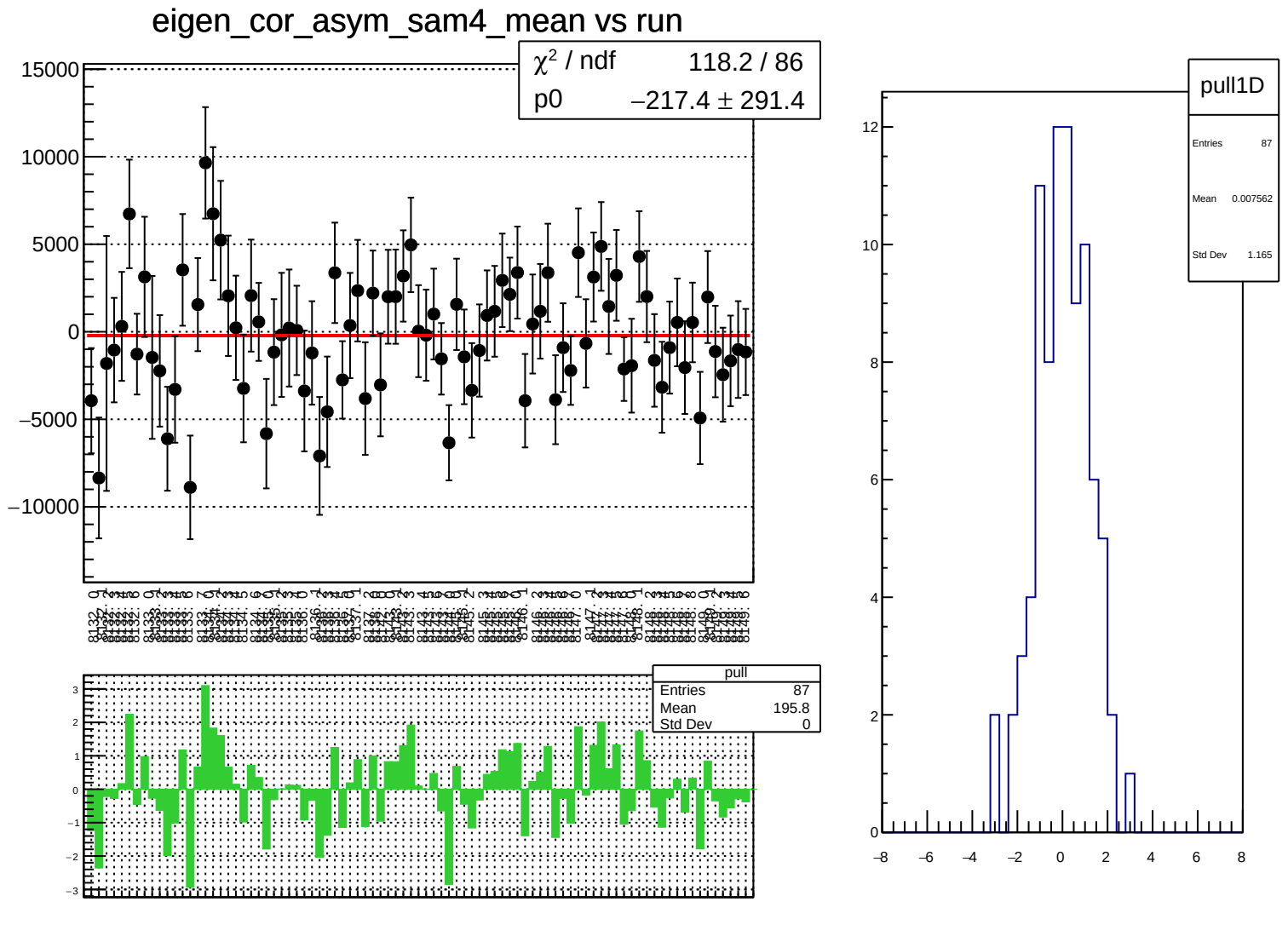

cor_asym_sam4_rms vs run
χ² / ndf 2.553e+04 / 86
p0 268.2 ± 0.2061
700
600
500
400
300
200

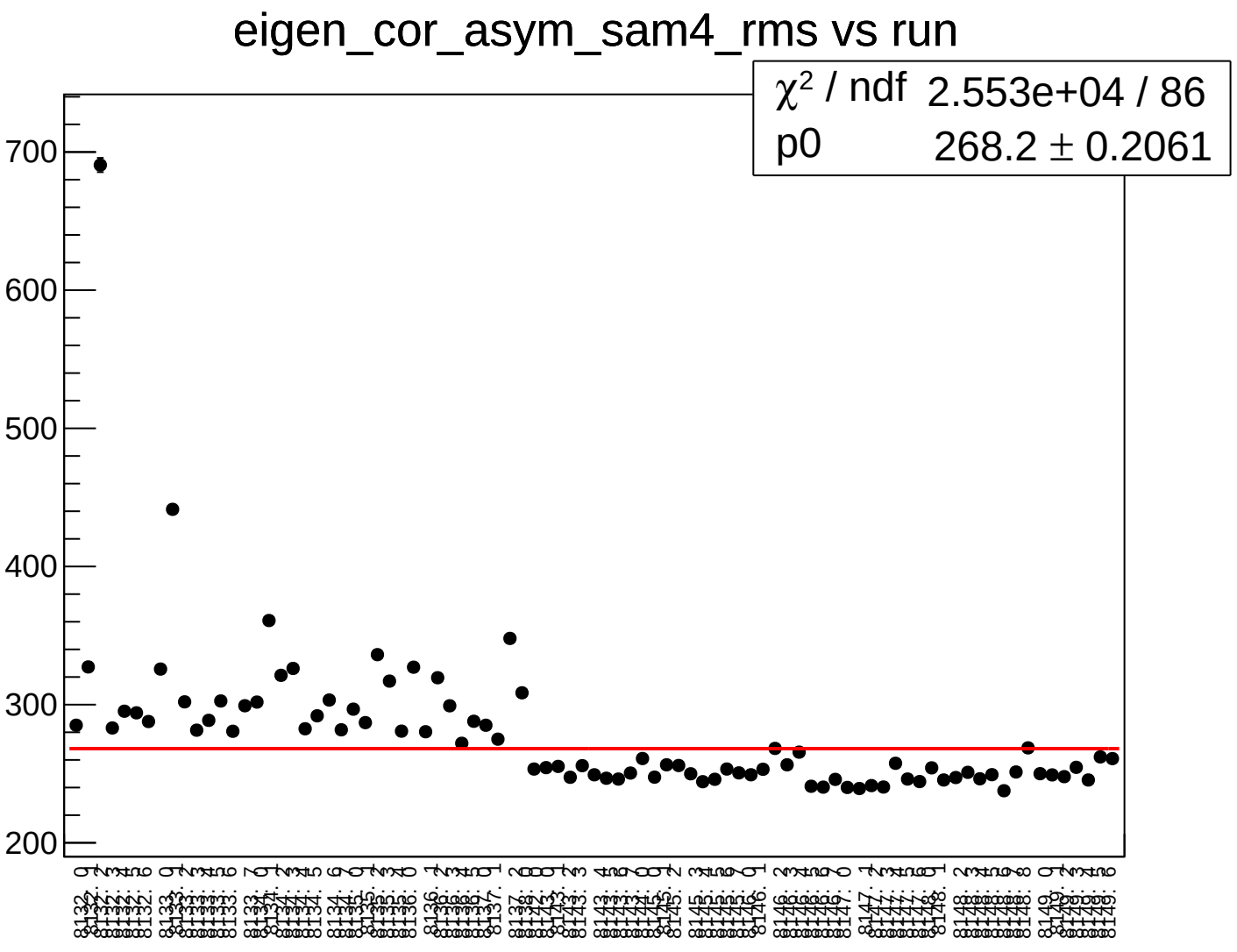

asym_sam4_cor_correction_mean vs run
×10^3
χ^2 / ndf 91.21 / 86
p0 −4065 ± 4114
150
100
50
0
−50
−100
−150
−200
pull
Entries 87
Mean −193.1
Std Dev 0
2
1
0
−1
−2
−3

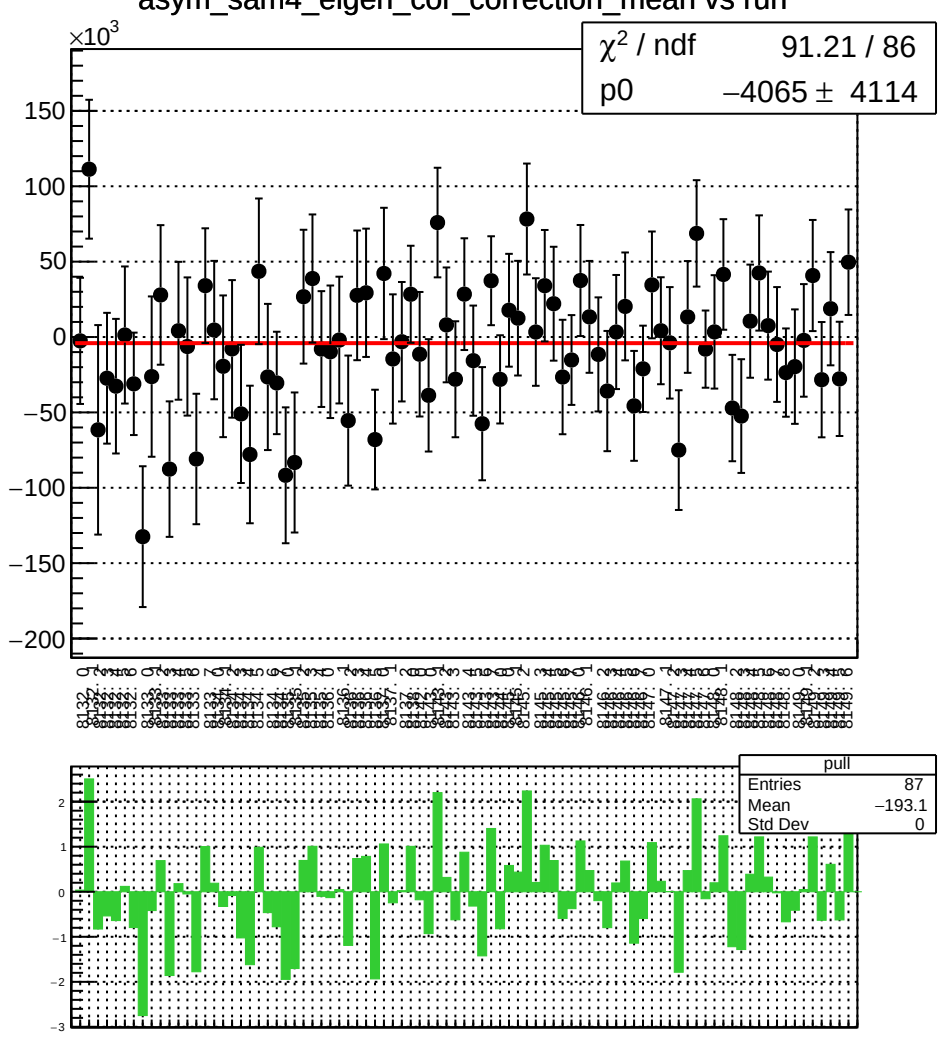

pull1D
Entries 87
Mean −0.02075
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

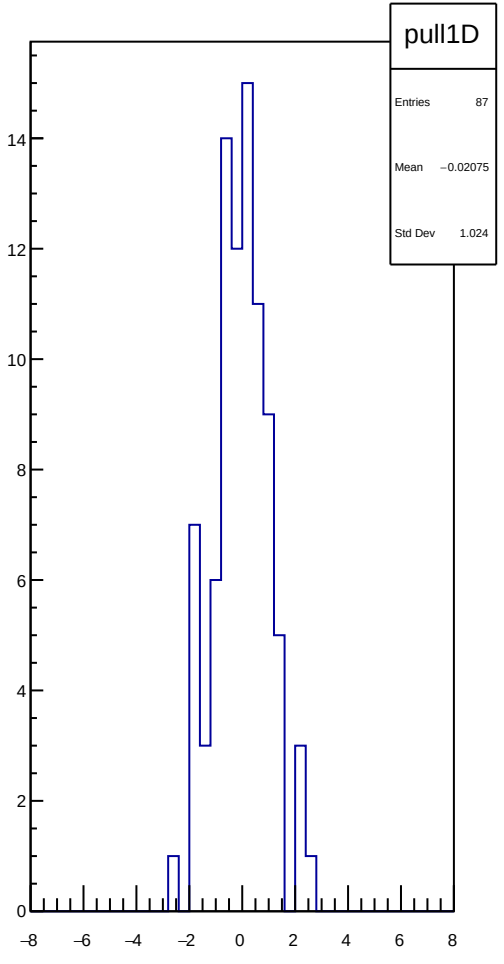
asym_sam4_cor_correction_rms vs run

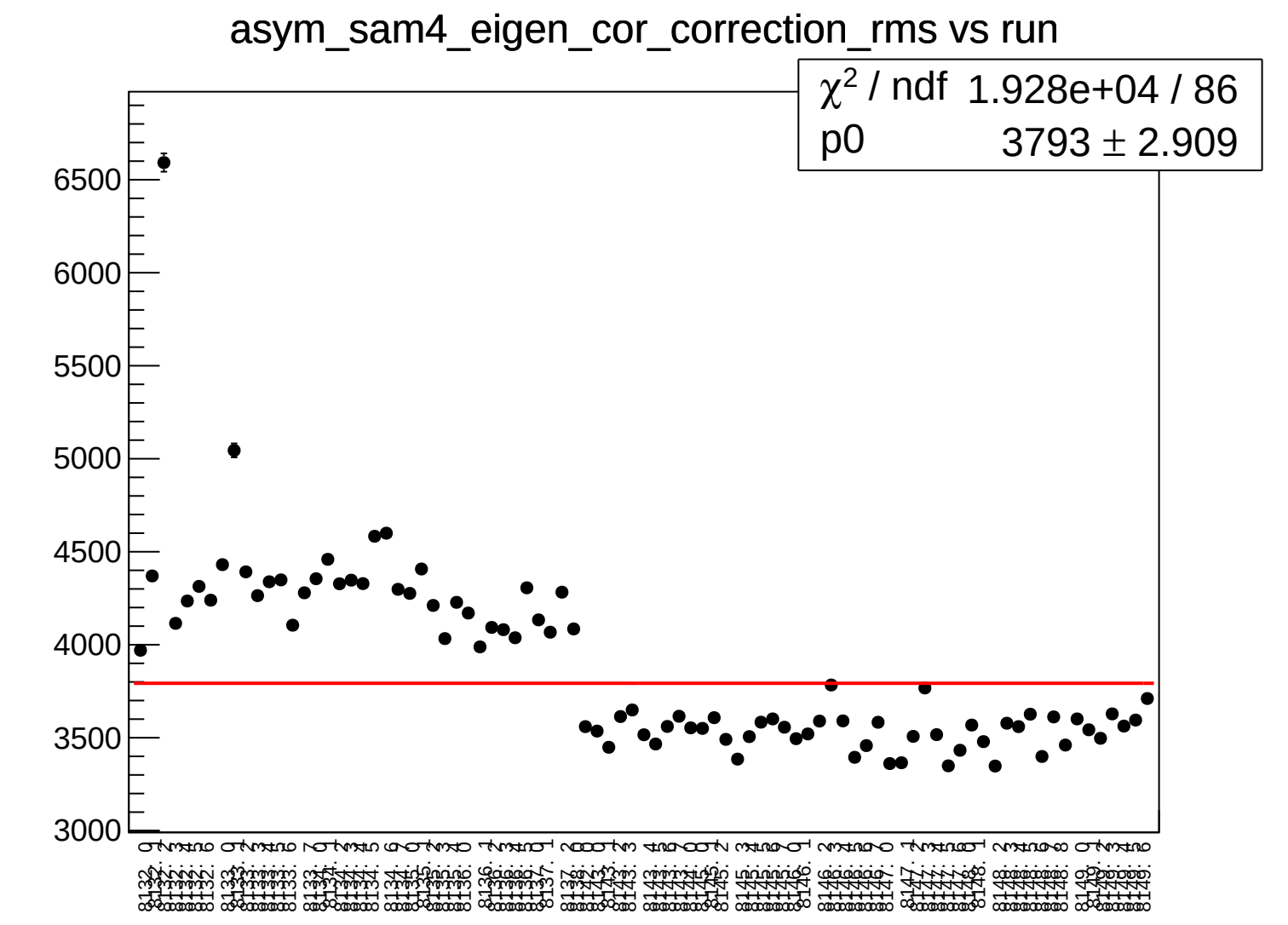


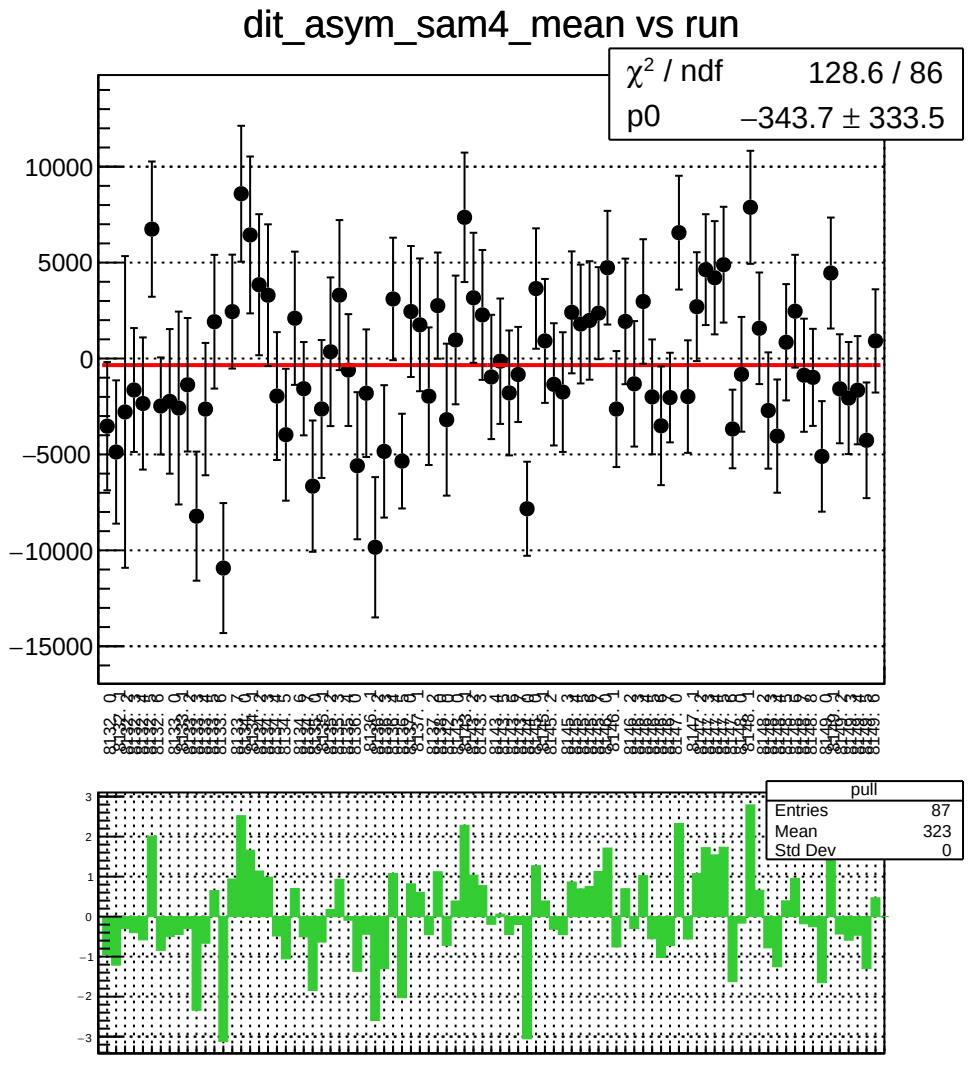

eigen_cor_asym_sam4_mean vs run
χ² / ndf 118.2 / 86
p0 −217.4 ± 291.4
15000
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 195.8
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean 0.007562
Std Dev 1.165
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

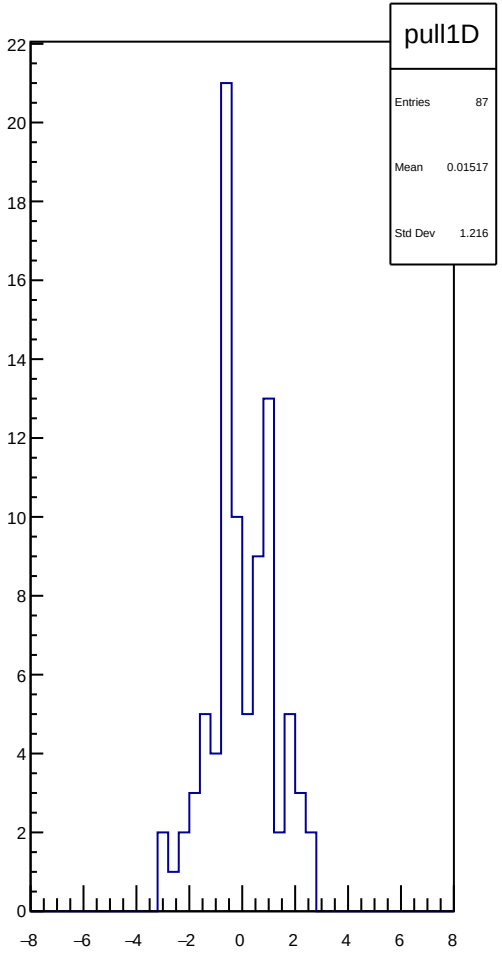

eigen_cor_asym_sam4_rms vs run
χ² / ndf 2.553e+04 / 86
p0 268.2 ± 0.2061
700
600
500
400
300
200

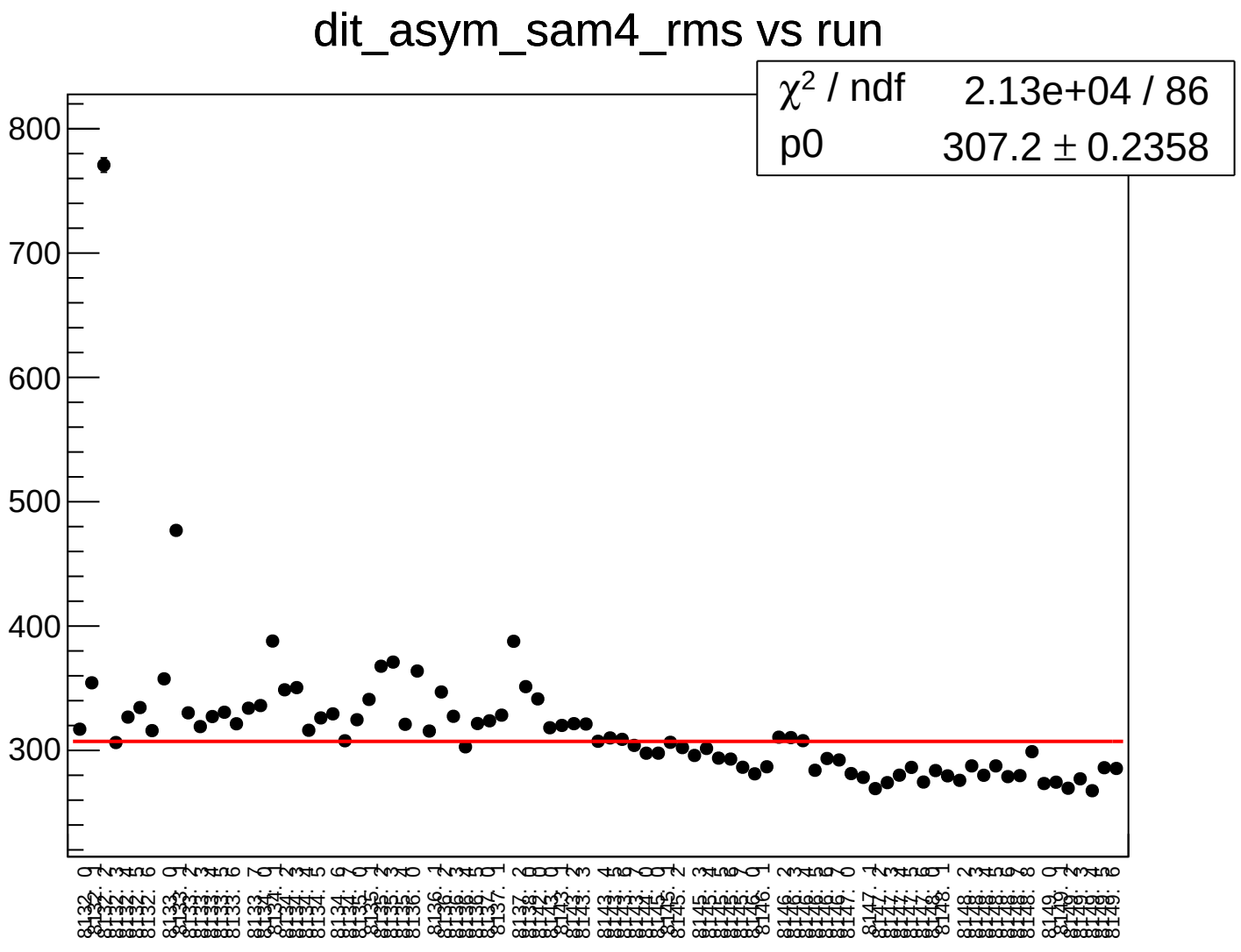

asym_sam4_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 91.21 / 86
p0 −4065 ± 4114
150
100
50
0
−50
−100
−150
−200
pull
Entries 87
Mean −193.1
Std Dev 0
2
1
0
−1
−2
−3

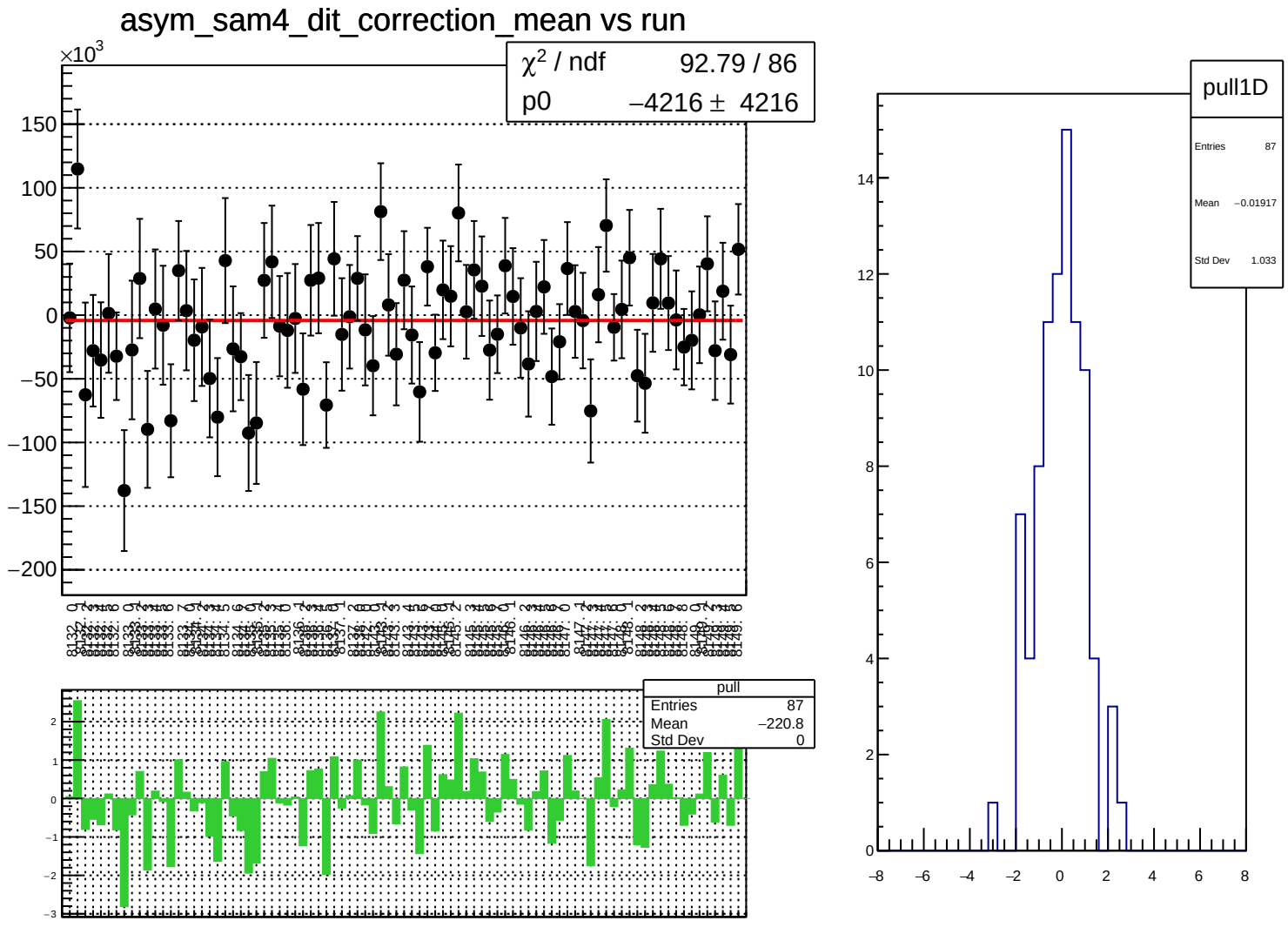

pull1D
Entries 87
Mean −0.02075
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

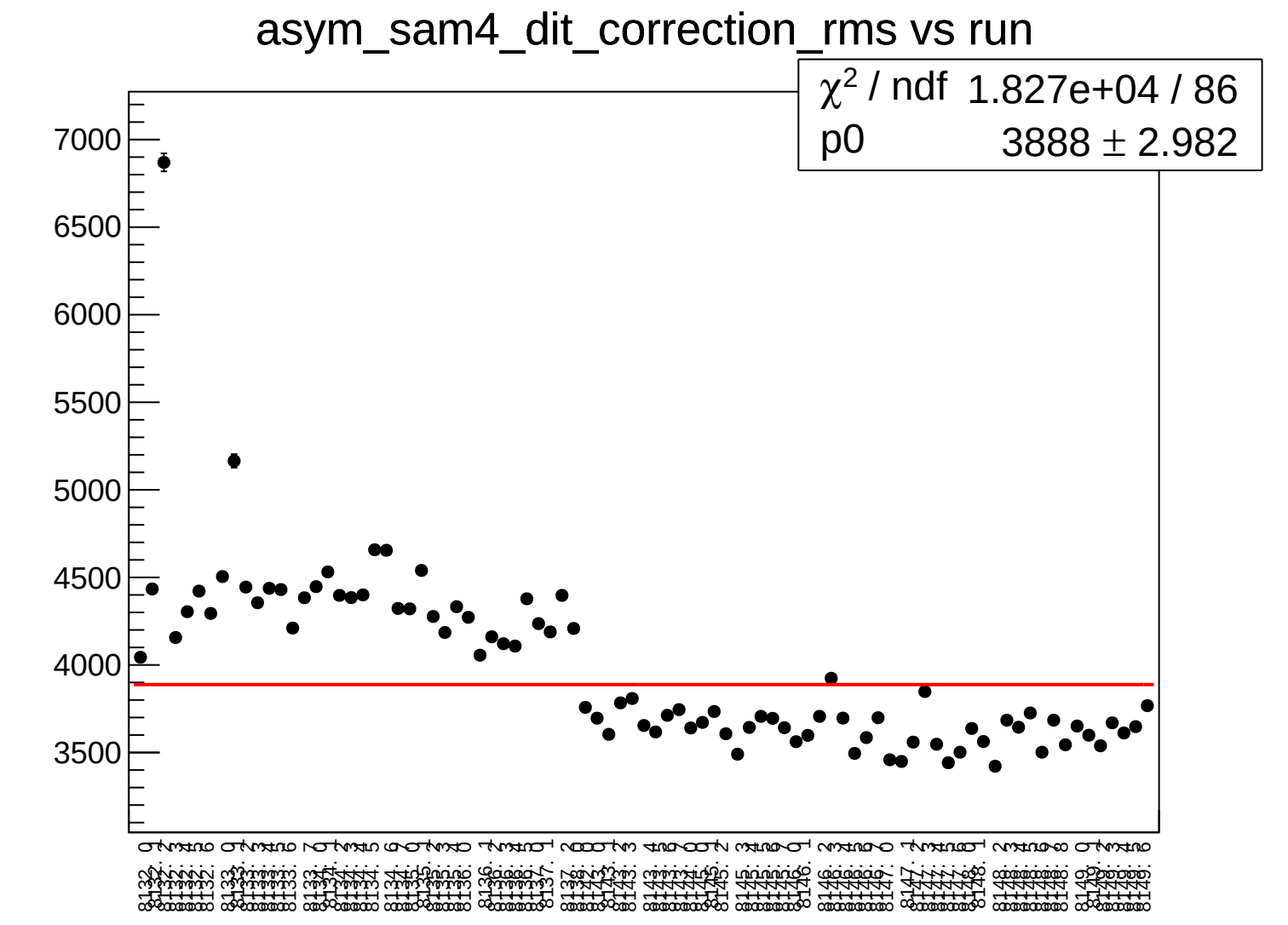

asym_sam4_eigen_cor_correction_rms vs run
χ² / ndf 1.928e+04 / 86
p0 3793 ± 2.909
6500
6000
5500
5000
4500
4000
3500
3000

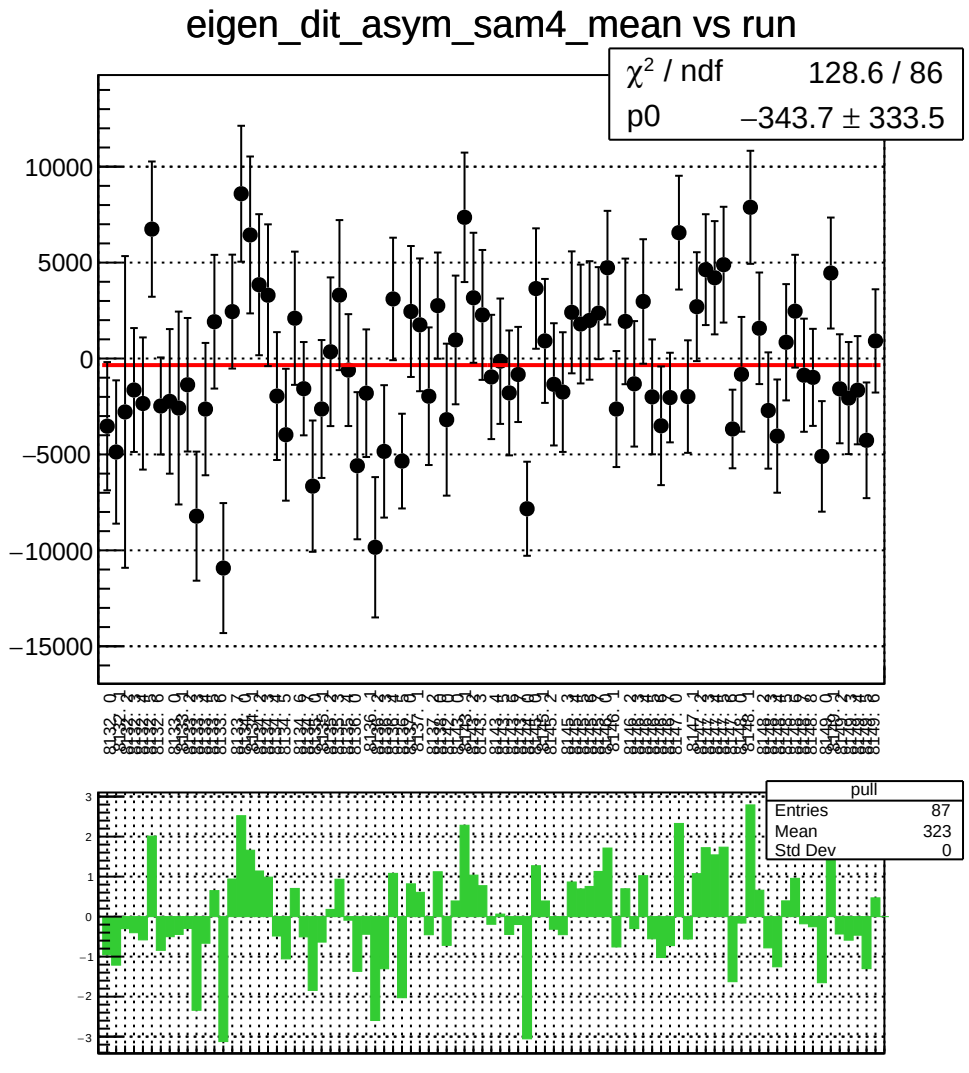

dit_asym_sam4_mean vs run
χ² / ndf 128.6 / 86
p0 −343.7 ± 333.5
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean 323
Std Dev 0
3
2
1
0
−1
−2
−3

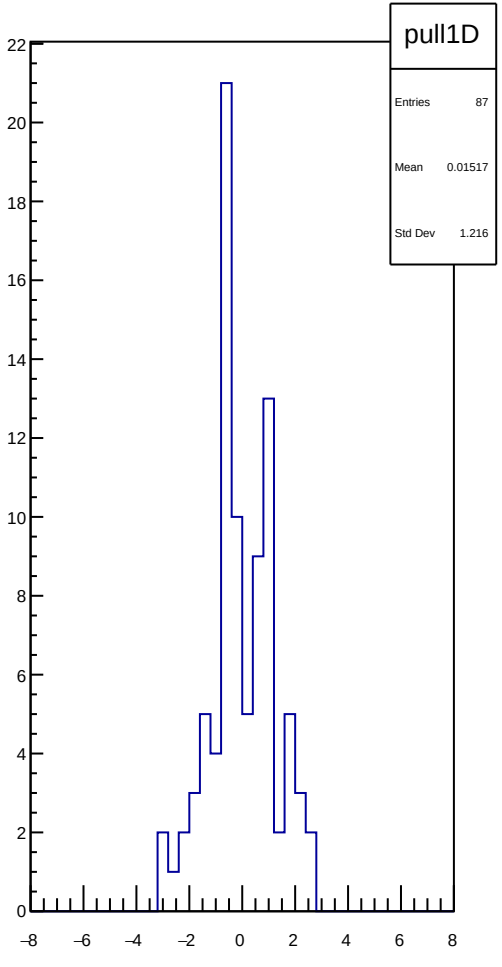

pull1D
Entries 87
Mean 0.01517
Std Dev 1.216
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

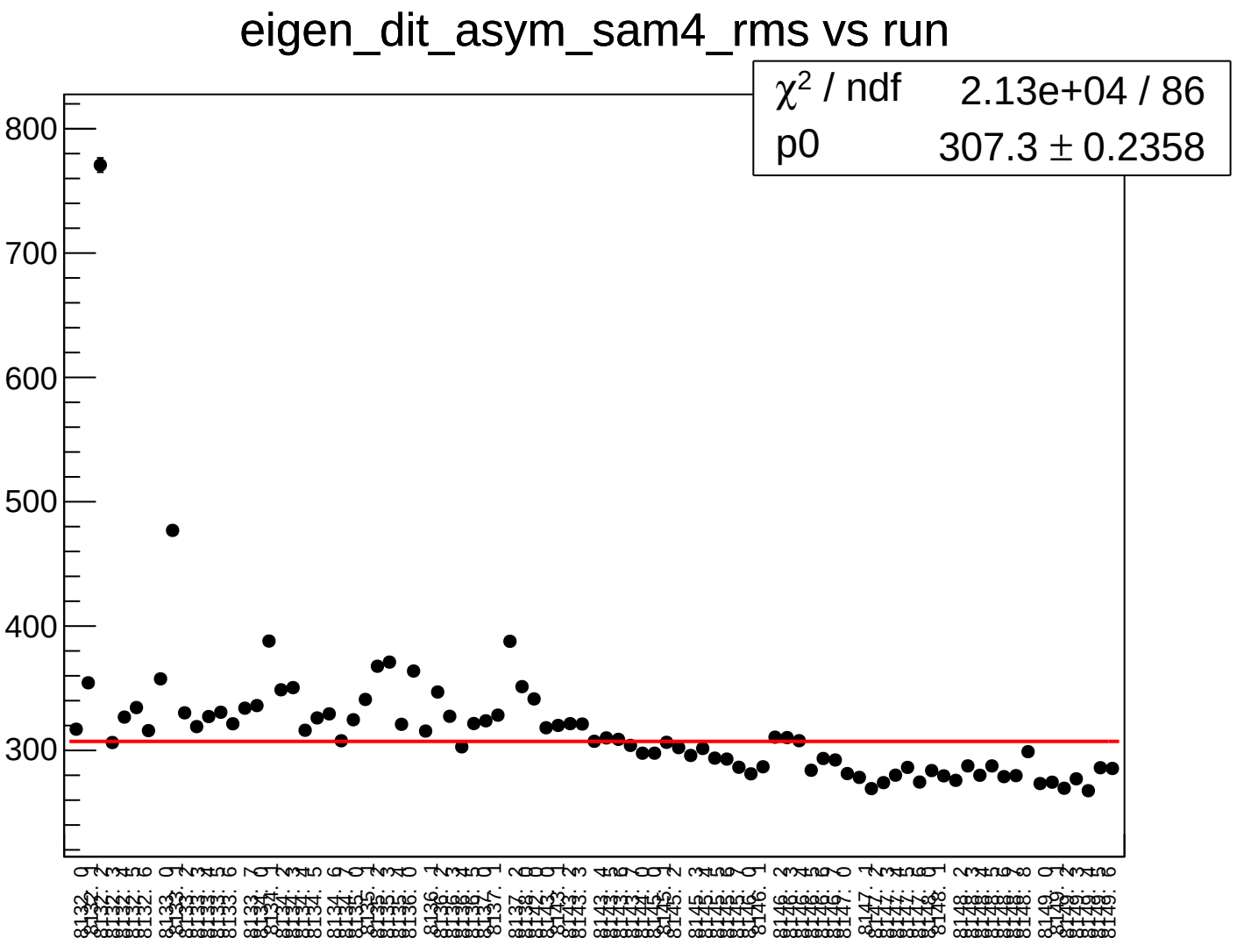

dit_asym_sam4_rms vs run
χ² / ndf 2.13e+04 / 86
p0 307.2 ± 0.2358
800
700
600
500
400
300

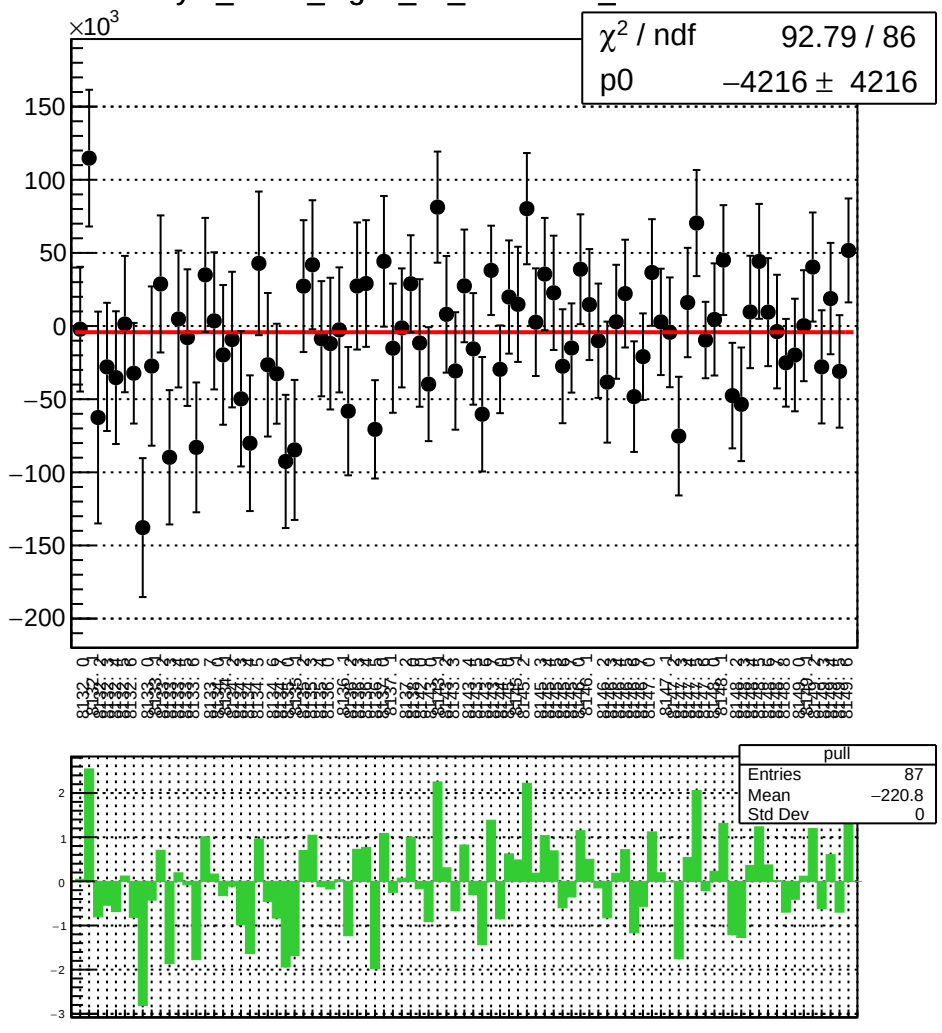

asym_sam4_dit_correction_mean vs run
×10^3
χ² / ndf 92.79 / 86
p0 −4216 ± 4216
150
100
50
0
−50
−100
−150
−200
pull
Entries 87
Mean −220.8
Std Dev 0
pull1D
Entries 87
Mean −0.01917
Std Dev 1.033

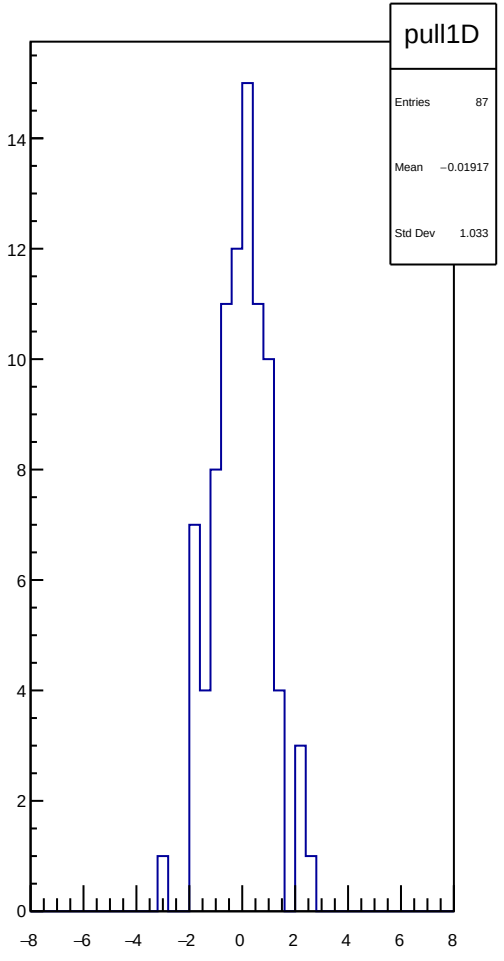

asym_sam4_dit_correction_rms vs run
χ² / ndf 1.827e+04 / 86
p0 3888 ± 2.982
7000
6500
6000
5500
5000
4500
4000
3500

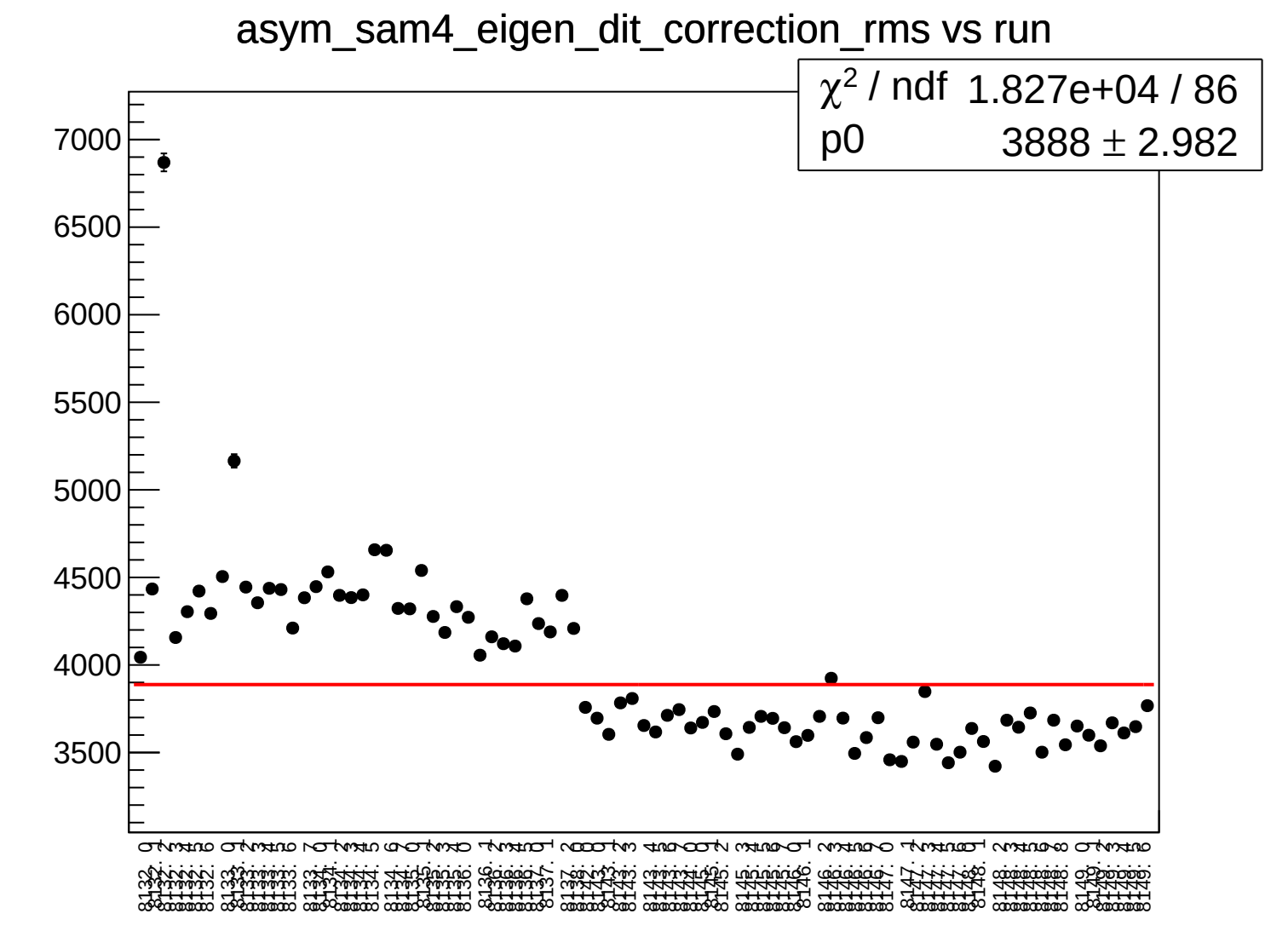

eigen_dit_asym_sam4_mean vs run
χ² / ndf 128.6 / 86
p0 −343.7 ± 333.5
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean 323
Std Dev 0
3
2
1
0
−1
−2
−3

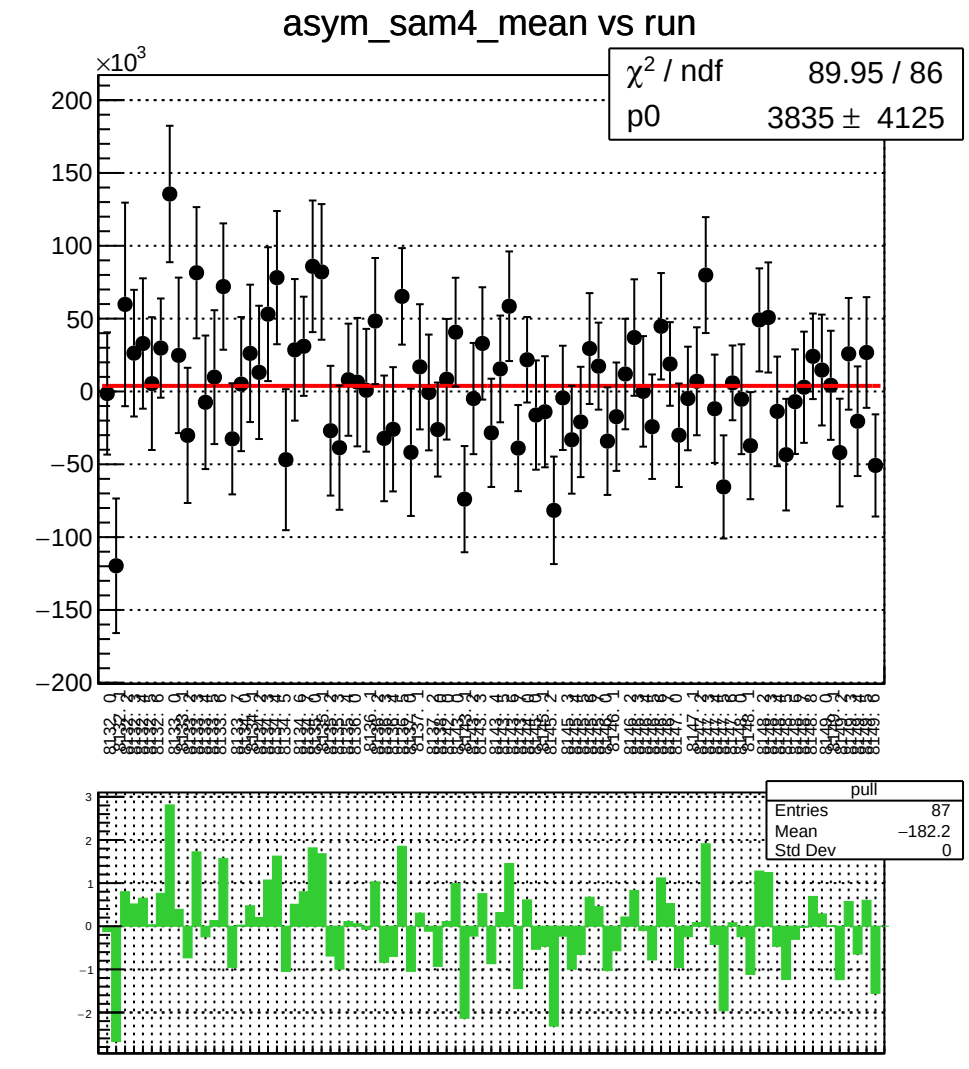

pull1D
Entries 87
Mean 0.01517
Std Dev 1.216
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

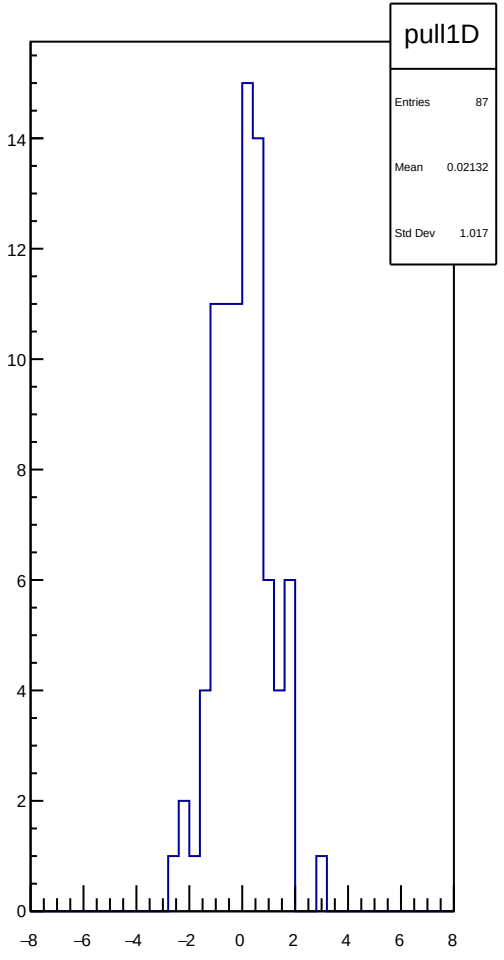

eigen_dit_asym_sam4_rms vs run
χ² / ndf 2.13e+04 / 86
p0 307.3 ± 0.2358
800
700
600
500
400
300

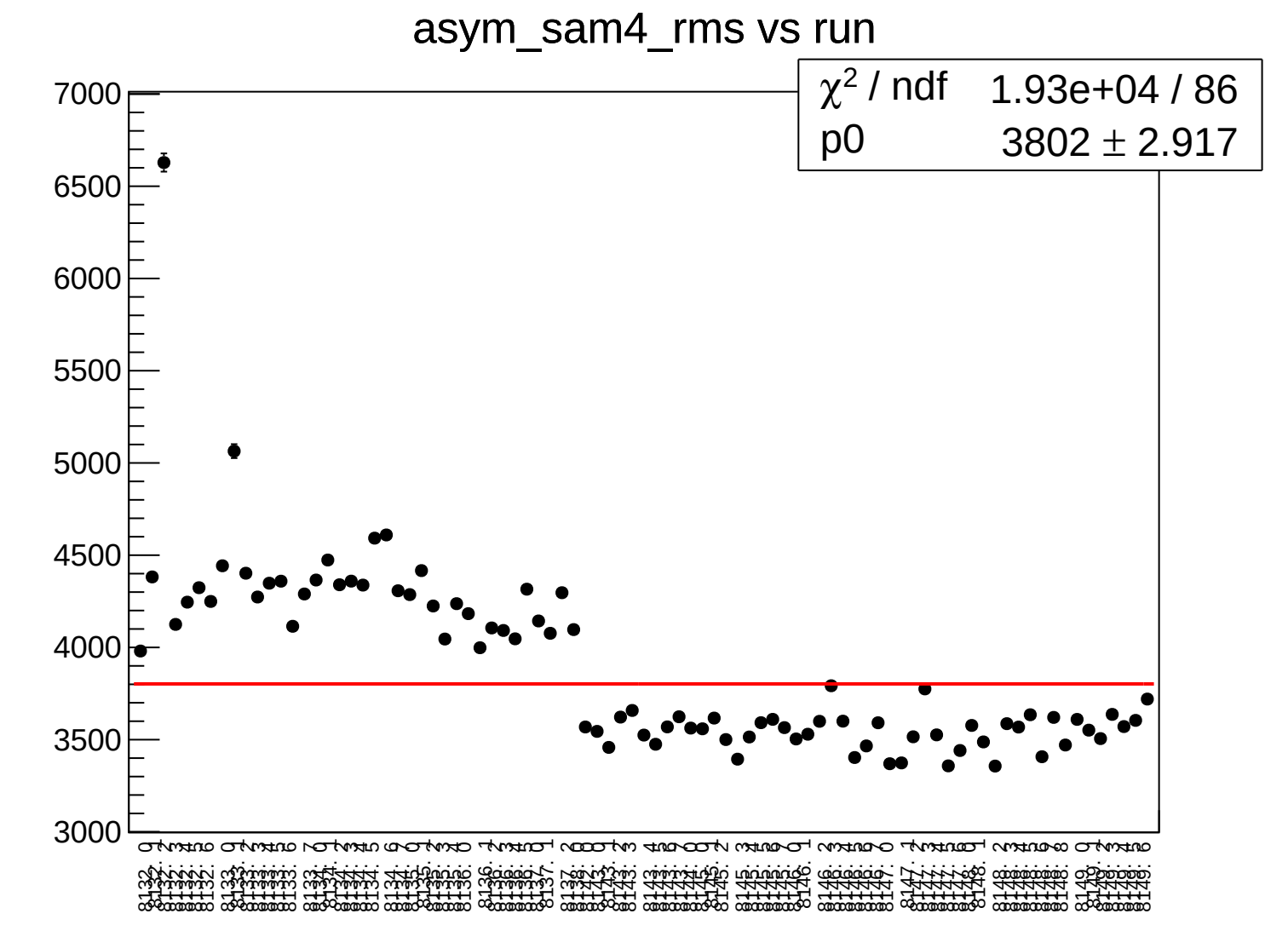

asym_sam4_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 92.79 / 86
p0 −4216 ± 4216
150
100
50
0
−50
−100
−150
−200
pull
Entries 87
Mean −220.8
Std Dev 0
2
1
0
−1
−2
−3

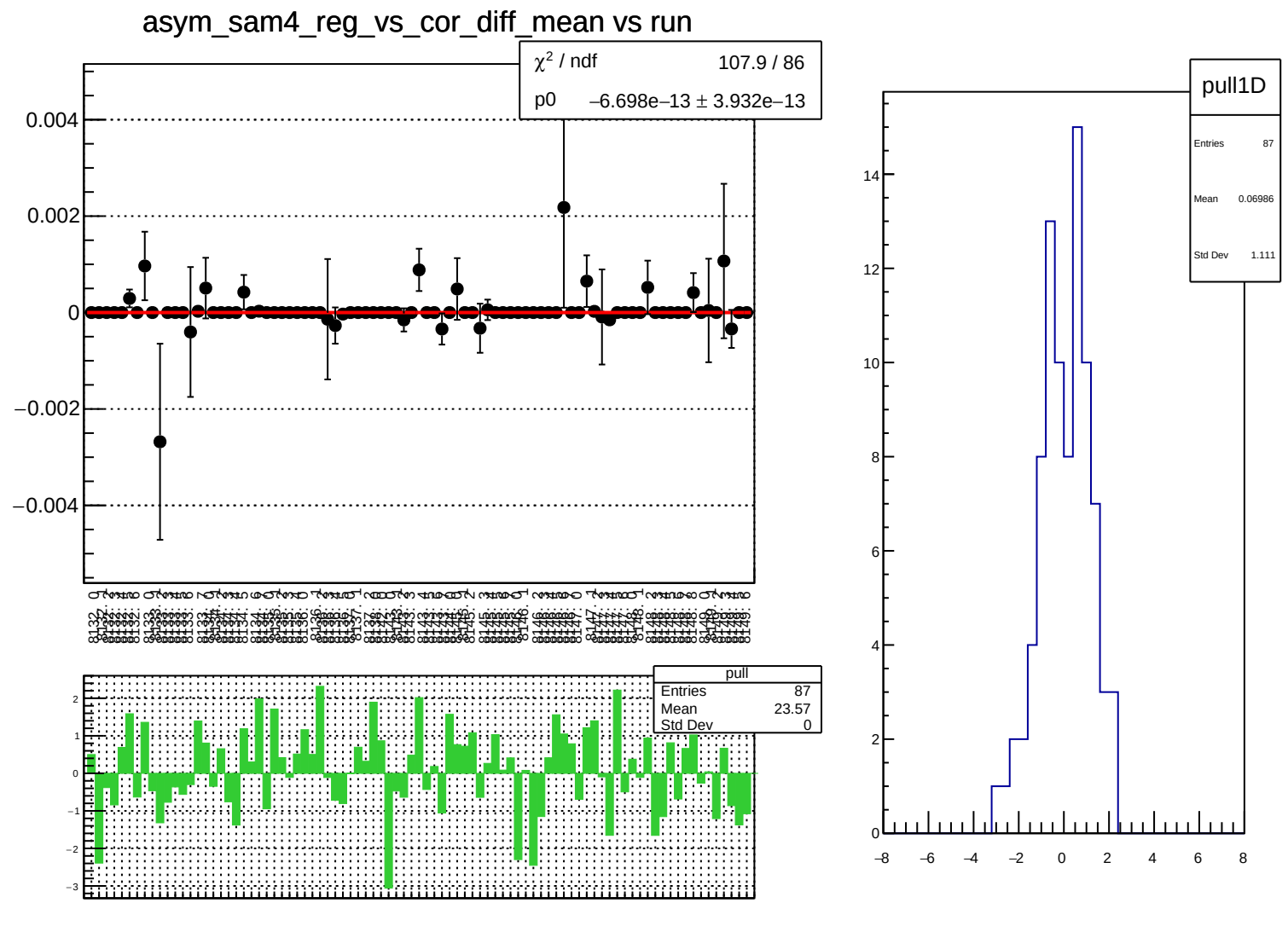

pull1D
Entries 87
Mean −0.01917
Std Dev 1.033
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

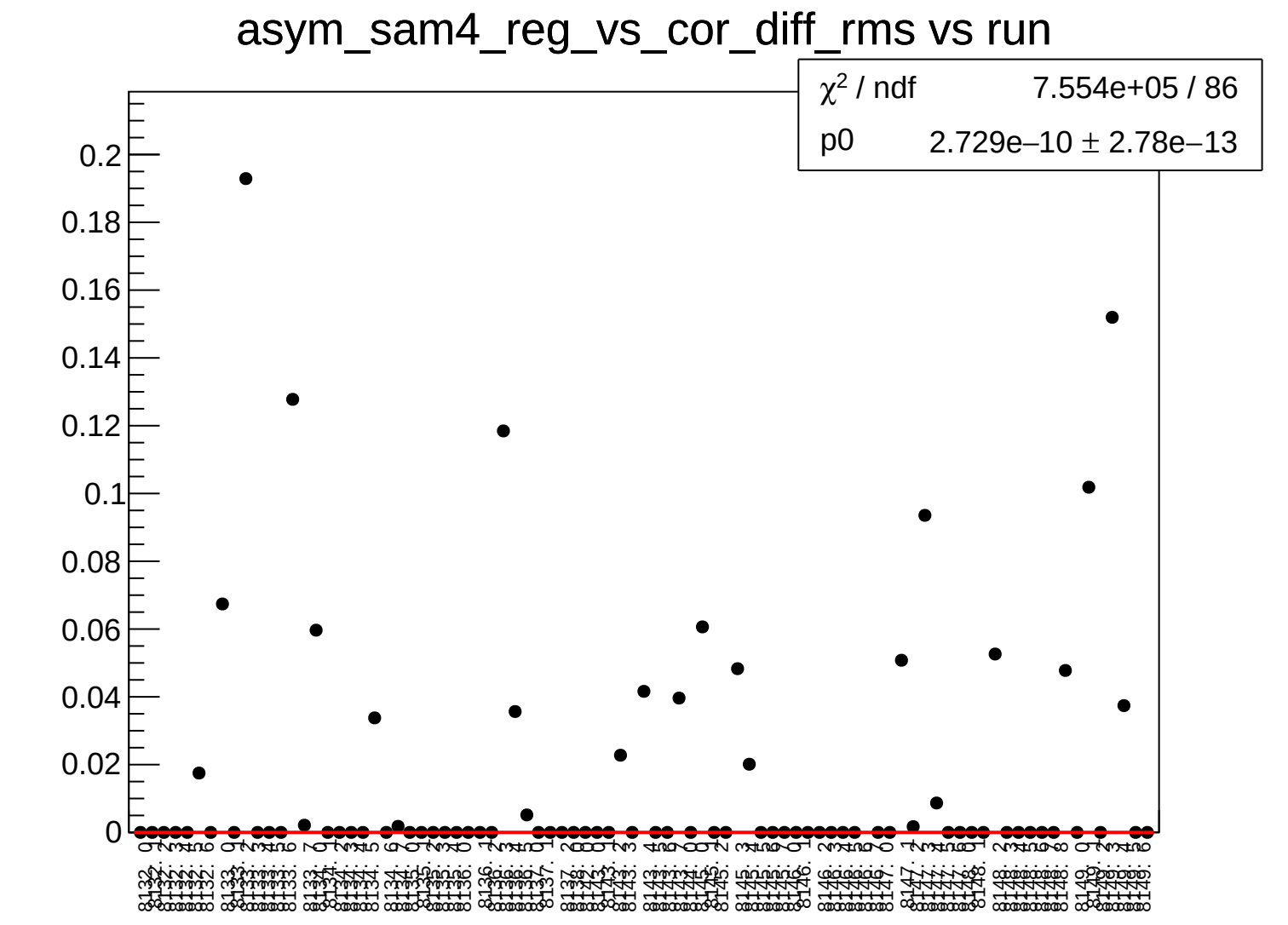

asym_sam4_eigen_dit_correction_rms vs run
χ² / ndf 1.827e+04 / 86
p0 3888 ± 2.982
7000
6500
6000
5500
5000
4500
4000
3500

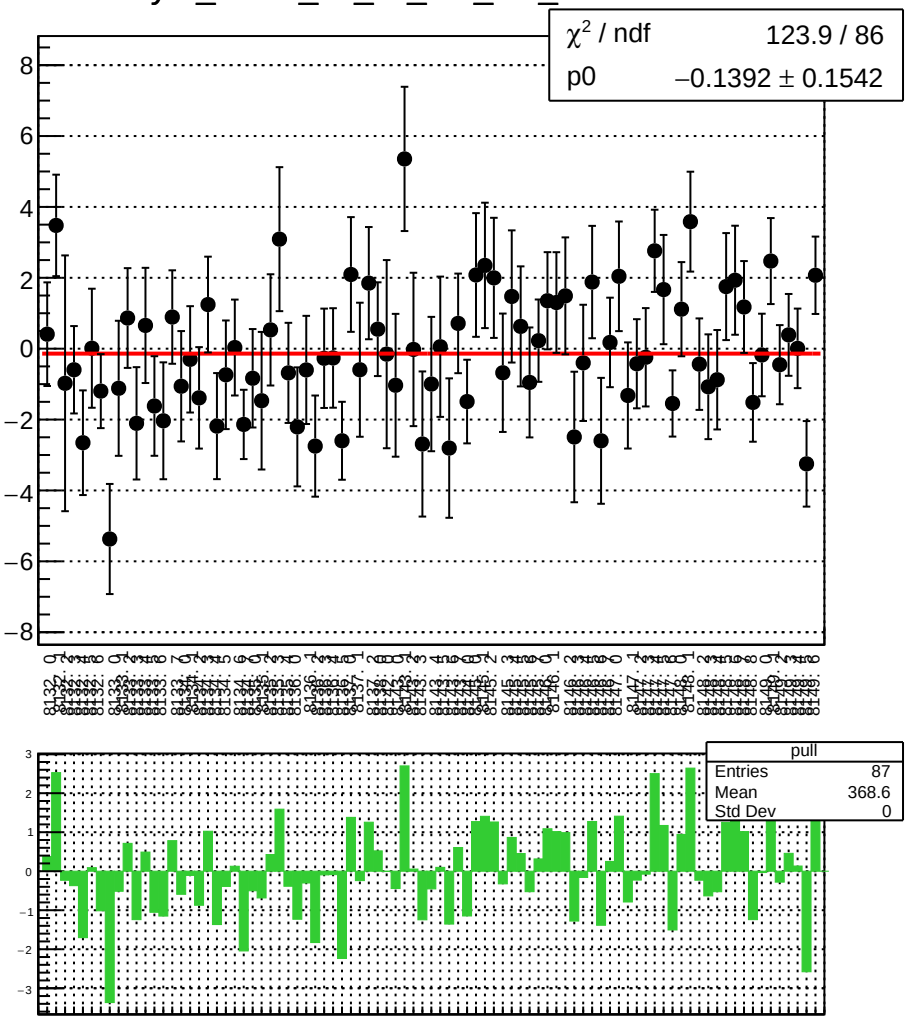

asym_sam4_mean vs run
×10^3
χ^2 / ndf 89.95 / 86
p0 3835 ± 4125
pull
Entries 87
Mean −182.2
Std Dev 0

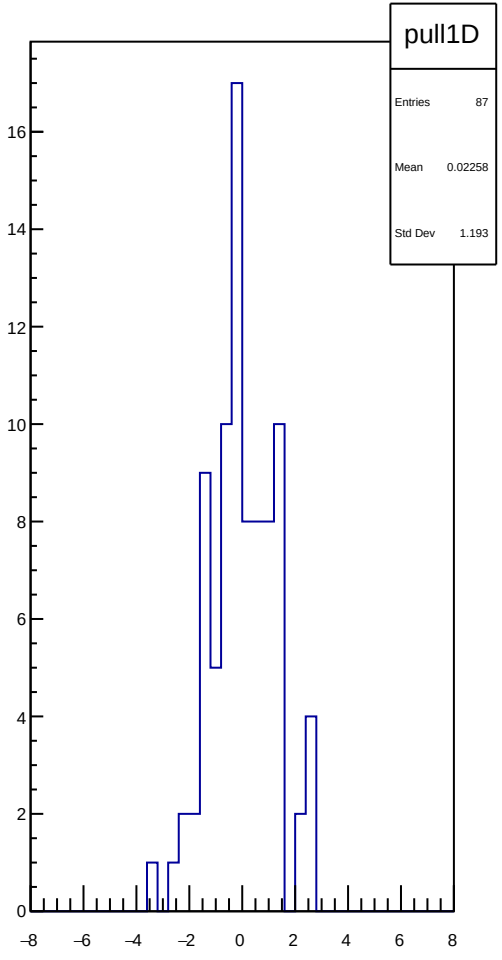

pull1D
Entries 87
Mean 0.02132
Std Dev 1.017

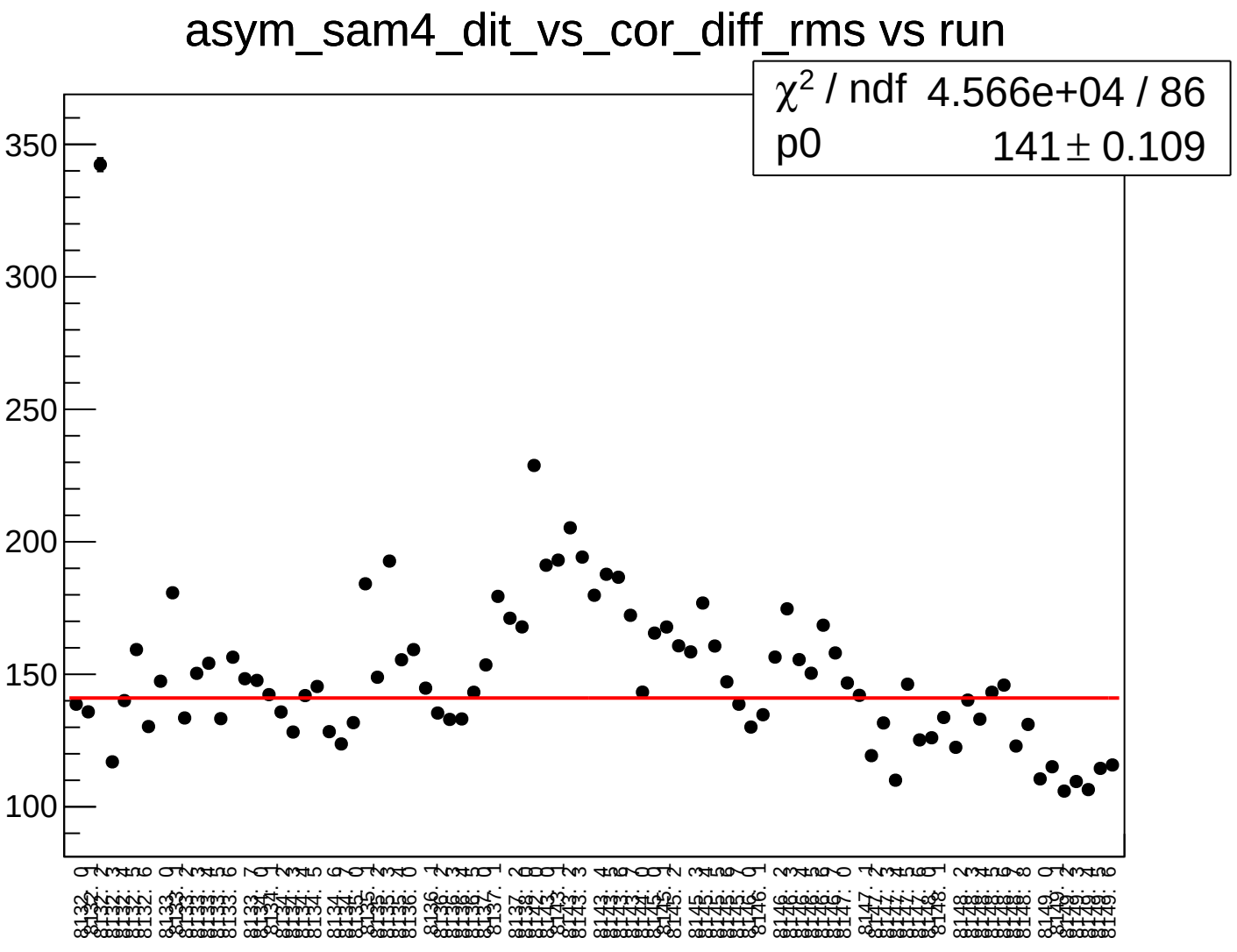

asym_sam4_rms vs run
χ^2 / ndf 1.93e+04 / 86
p0 3802 ± 2.917
7000
6500
6000
5500
5000
4500
4000
3500
3000

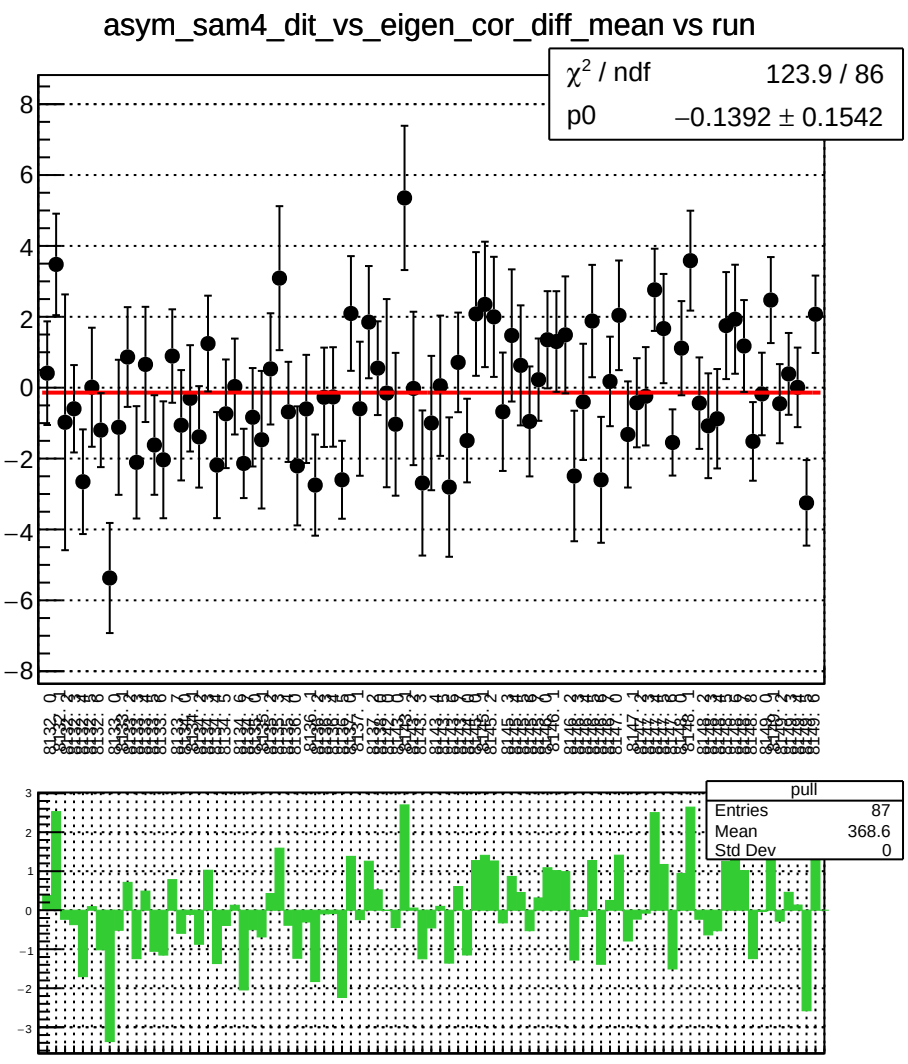

asym_sam4_reg_vs_cor_diff_mean vs run
χ² / ndf 107.9 / 86
p0 −6.698e−13 ± 3.932e−13
0.004
0.002
0
−0.002
−0.004
pull
Entries 87
Mean 23.57
Std Dev 0
pull1D
Entries 87
Mean 0.06986
Std Dev 1.111

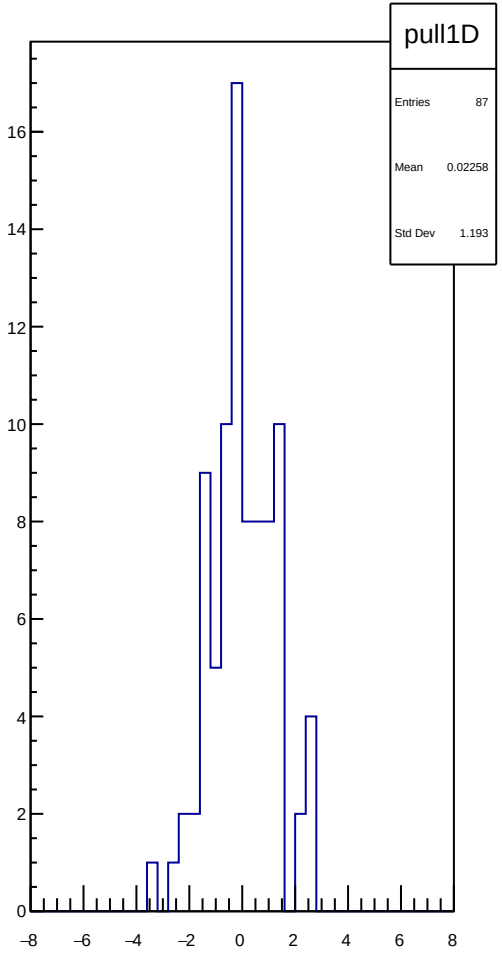

asym_sam4_reg_vs_cor_diff_rms vs run
χ² / ndf 7.554e+05 / 86
p0 2.729e−10 ± 2.78e−13
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

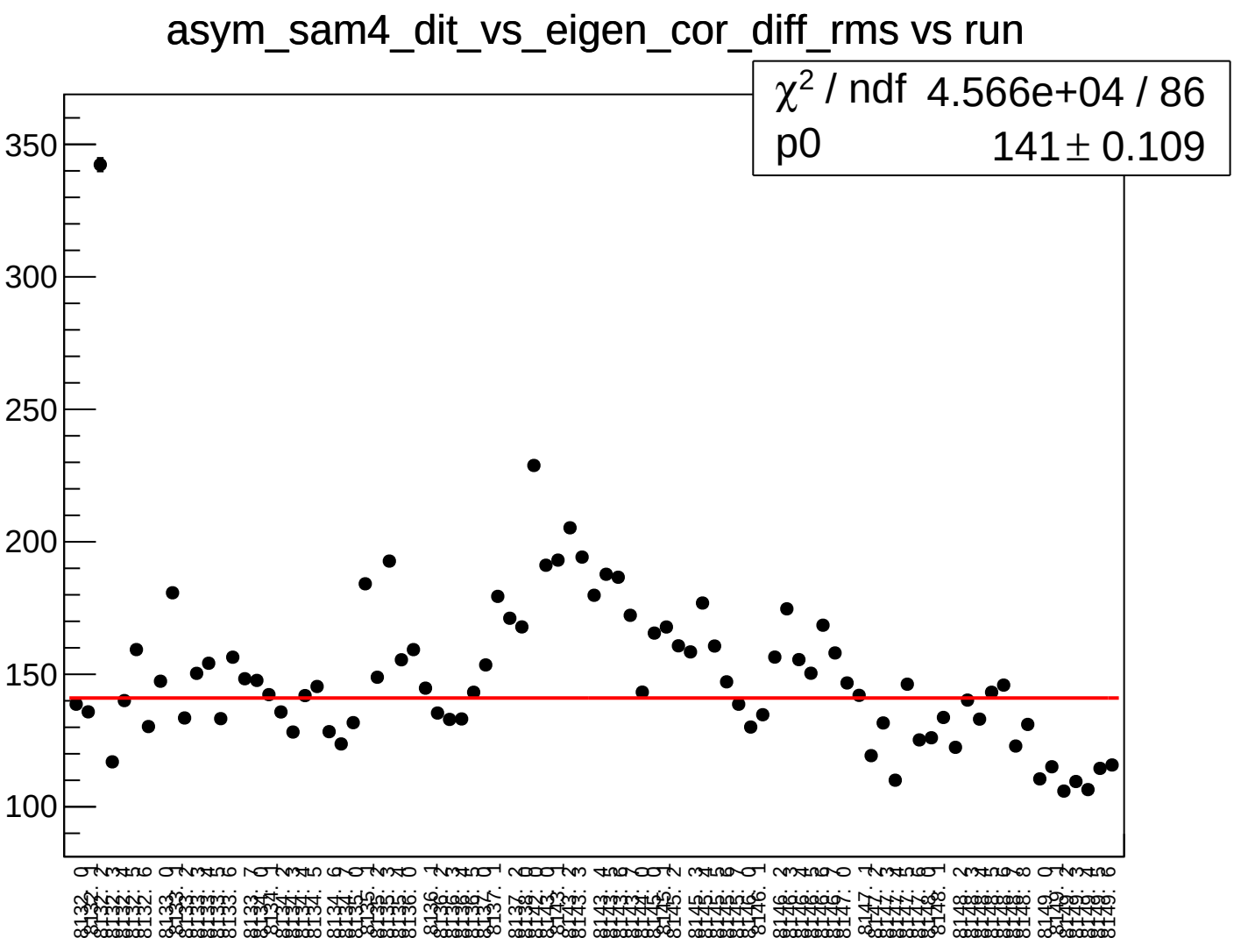

asym_sam4_dit_vs_cor_diff_mean vs run
χ² / ndf 123.9 / 86
p0 −0.1392 ± 0.1542
pull
Entries 87
Mean 368.6
Std Dev 0

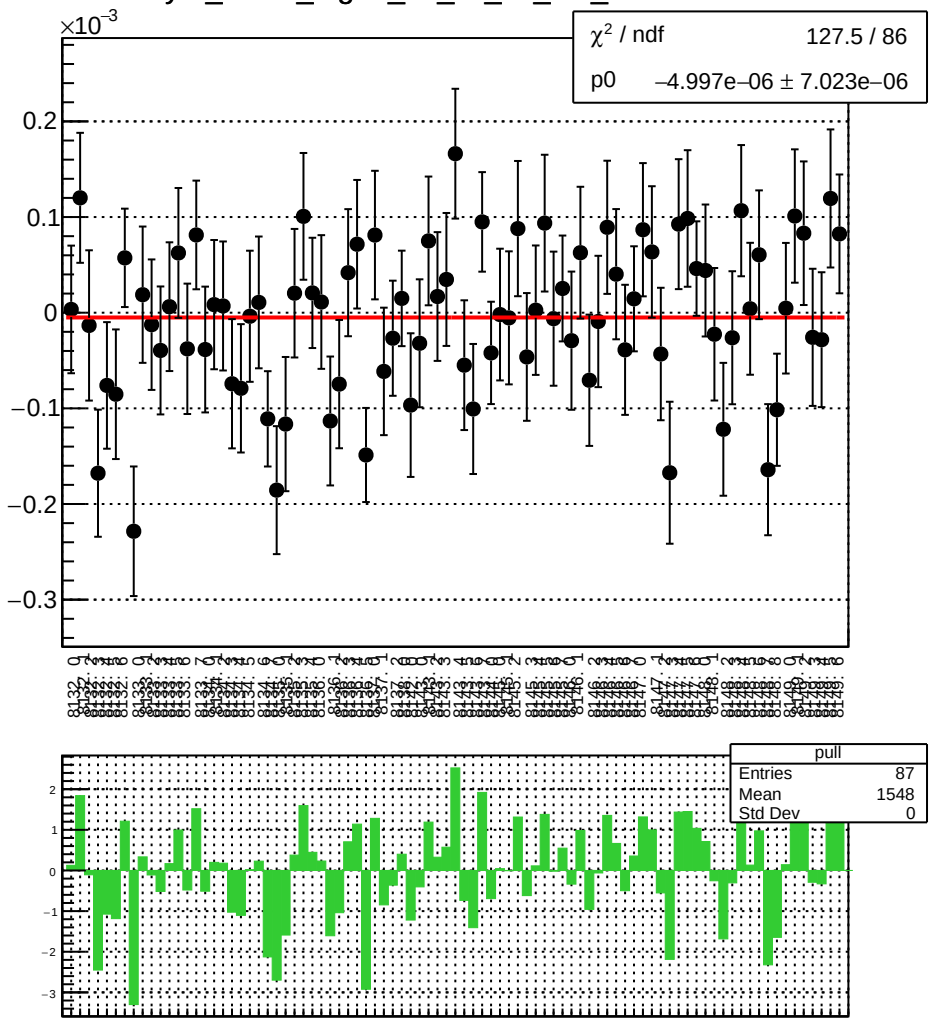

pull1D
Entries 87
Mean 0.02258
Std Dev 1.193

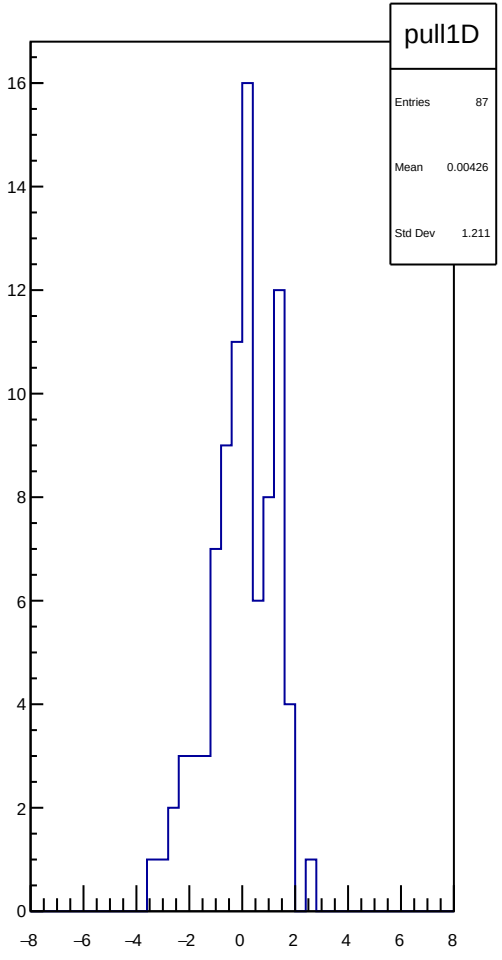

asym_sam4_dit_vs_cor_diff_rms vs run
χ² / ndf 4.566e+04 / 86
p0 141 ± 0.109
350
300
250
200
150
100


asym_sam4_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 123.9 / 86
p0 −0.1392 ± 0.1542
pull
Entries 87
Mean 368.6
Std Dev 0

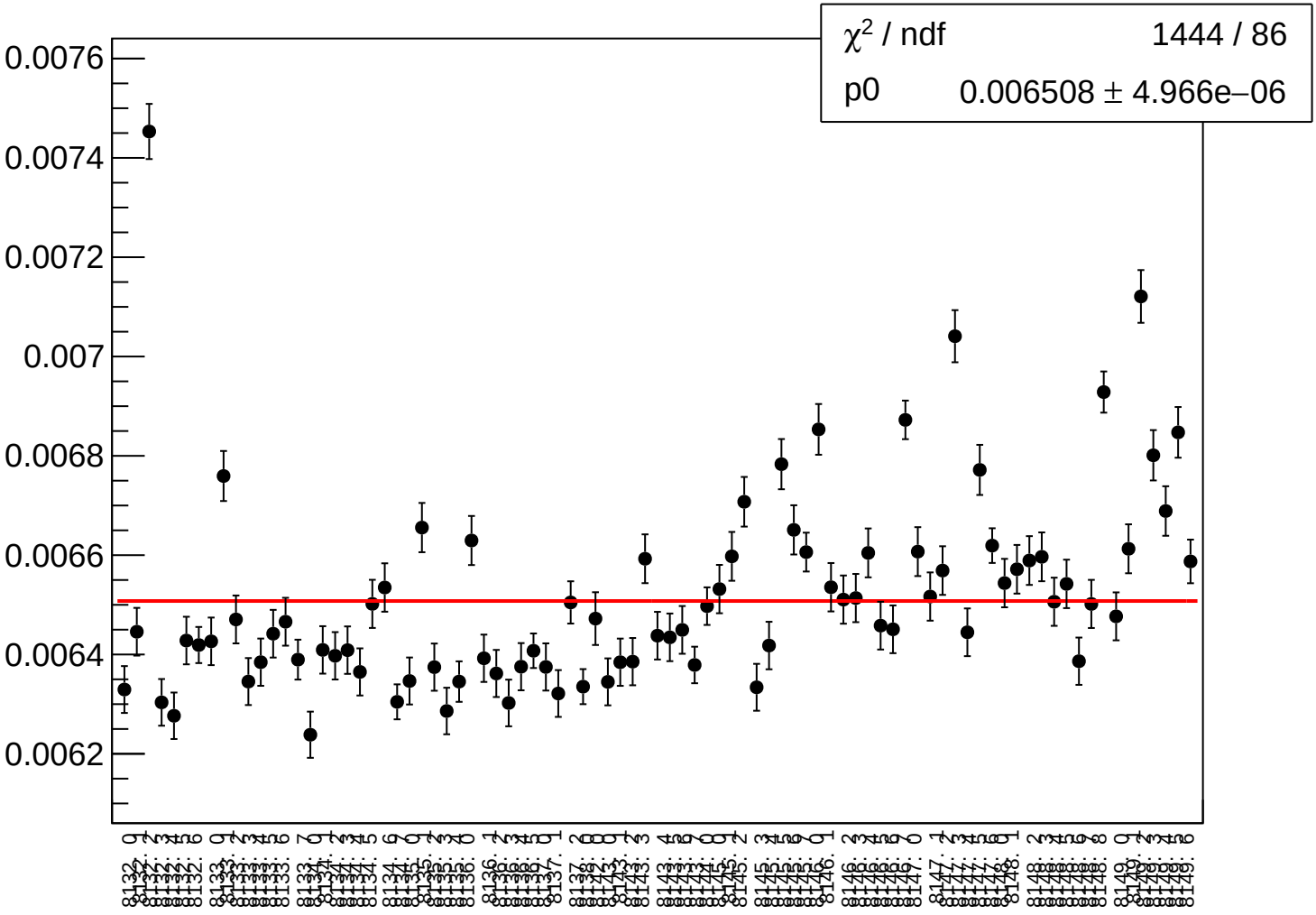

pull1D
Entries 87
Mean 0.02258
Std Dev 1.193

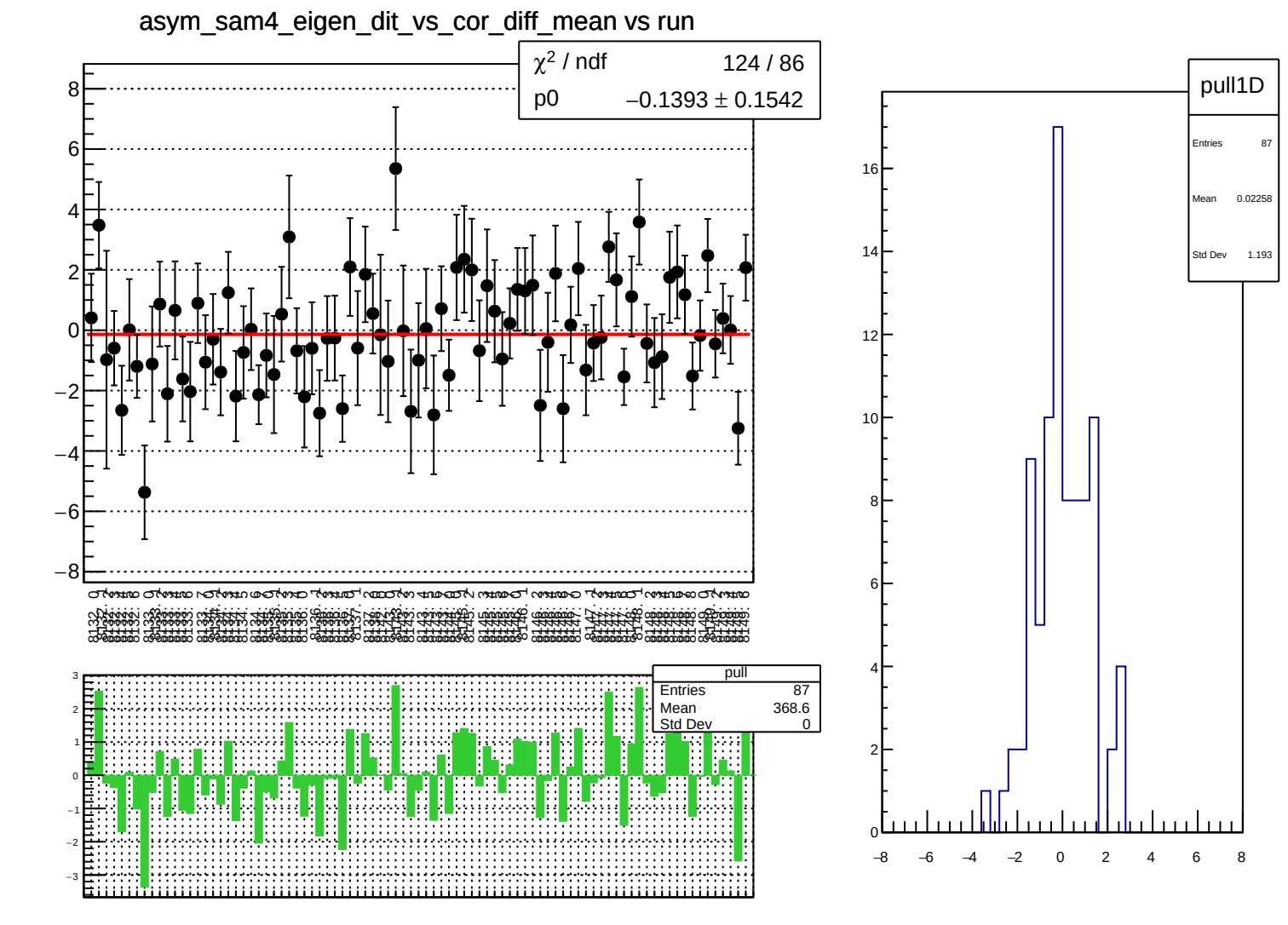

asym_sam4_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.566e+04 / 86
p0 141 ± 0.109
350
300
250
200
150
100

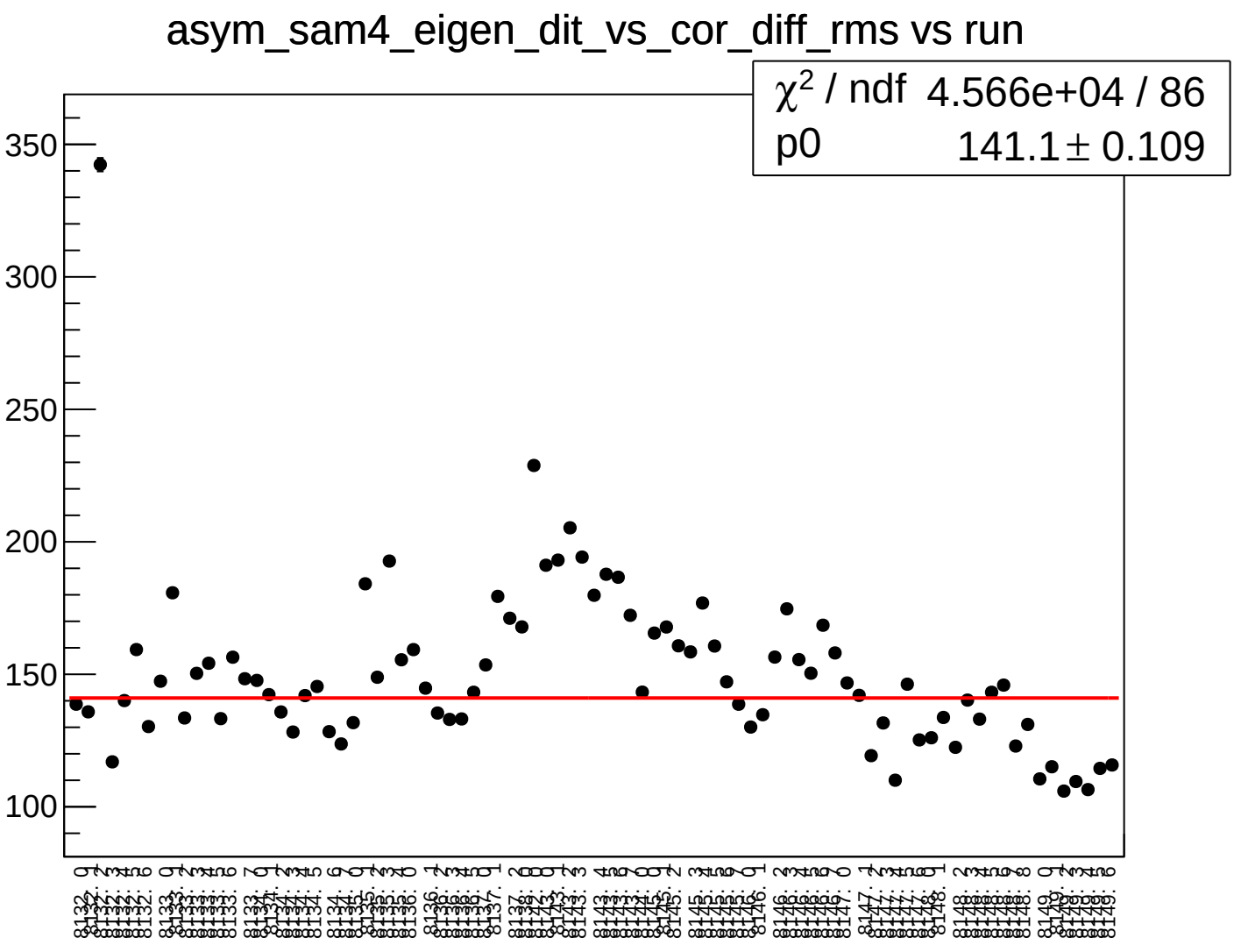

asym_sam4_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 127.5 / 86
p0 −4.997e−06 ± 7.023e−06
pull
Entries 87
Mean 1548
Std Dev 0

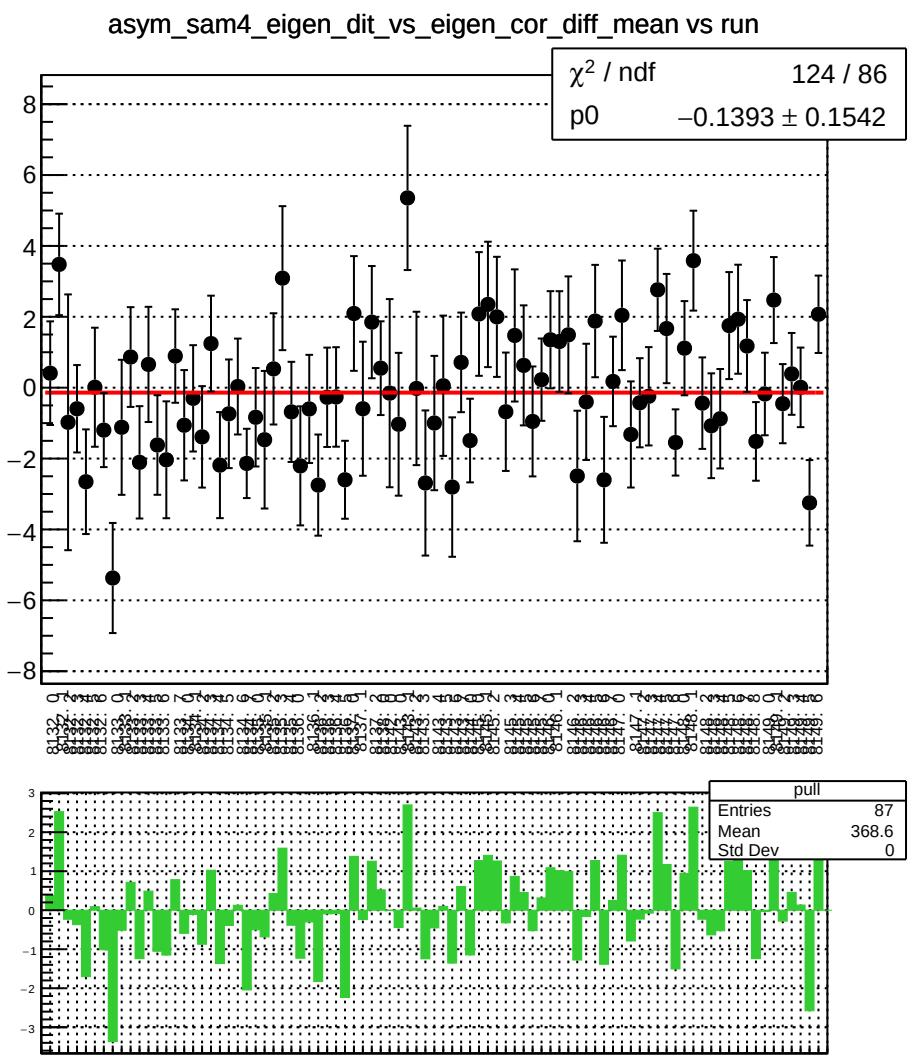

pull1D
Entries 87
Mean 0.00426
Std Dev 1.211

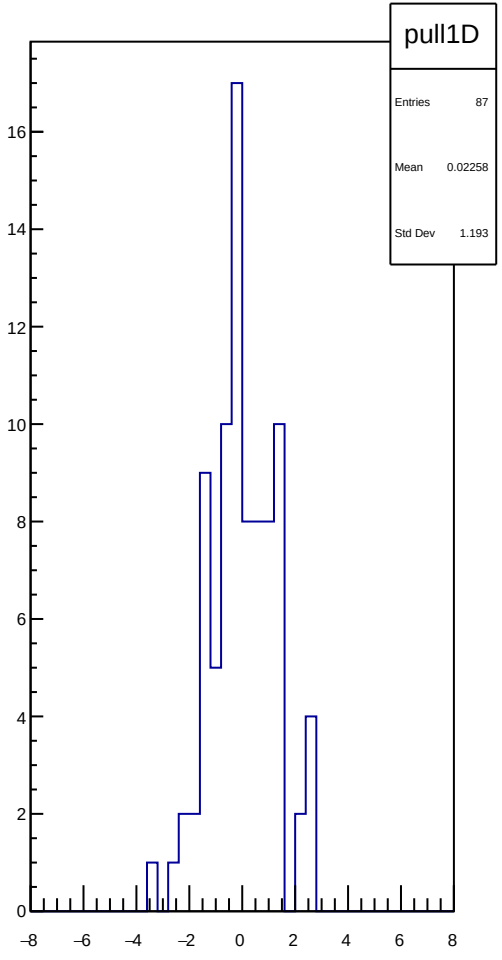
asym_sam4_eigen_dit_vs_dit_diff_rms vs run

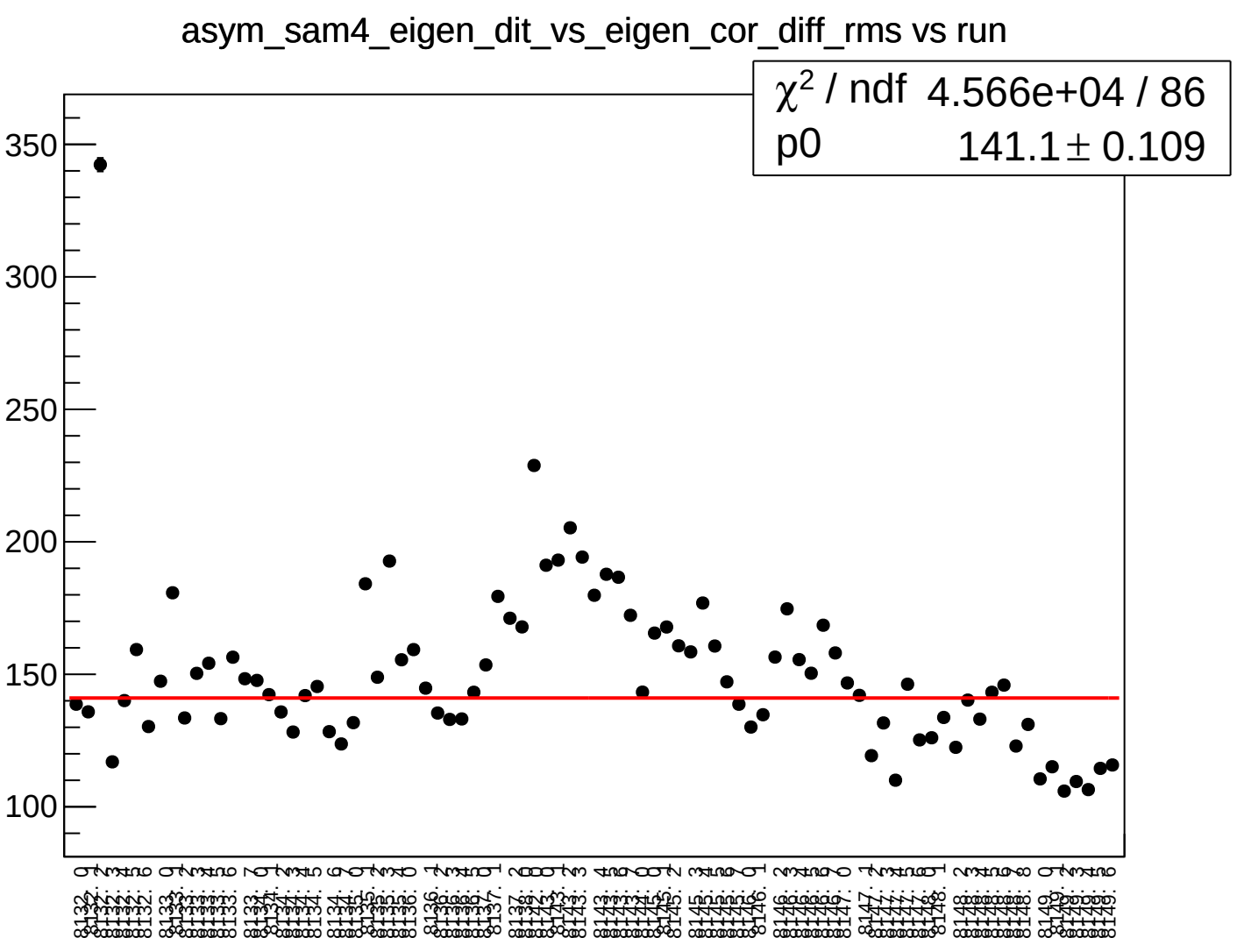


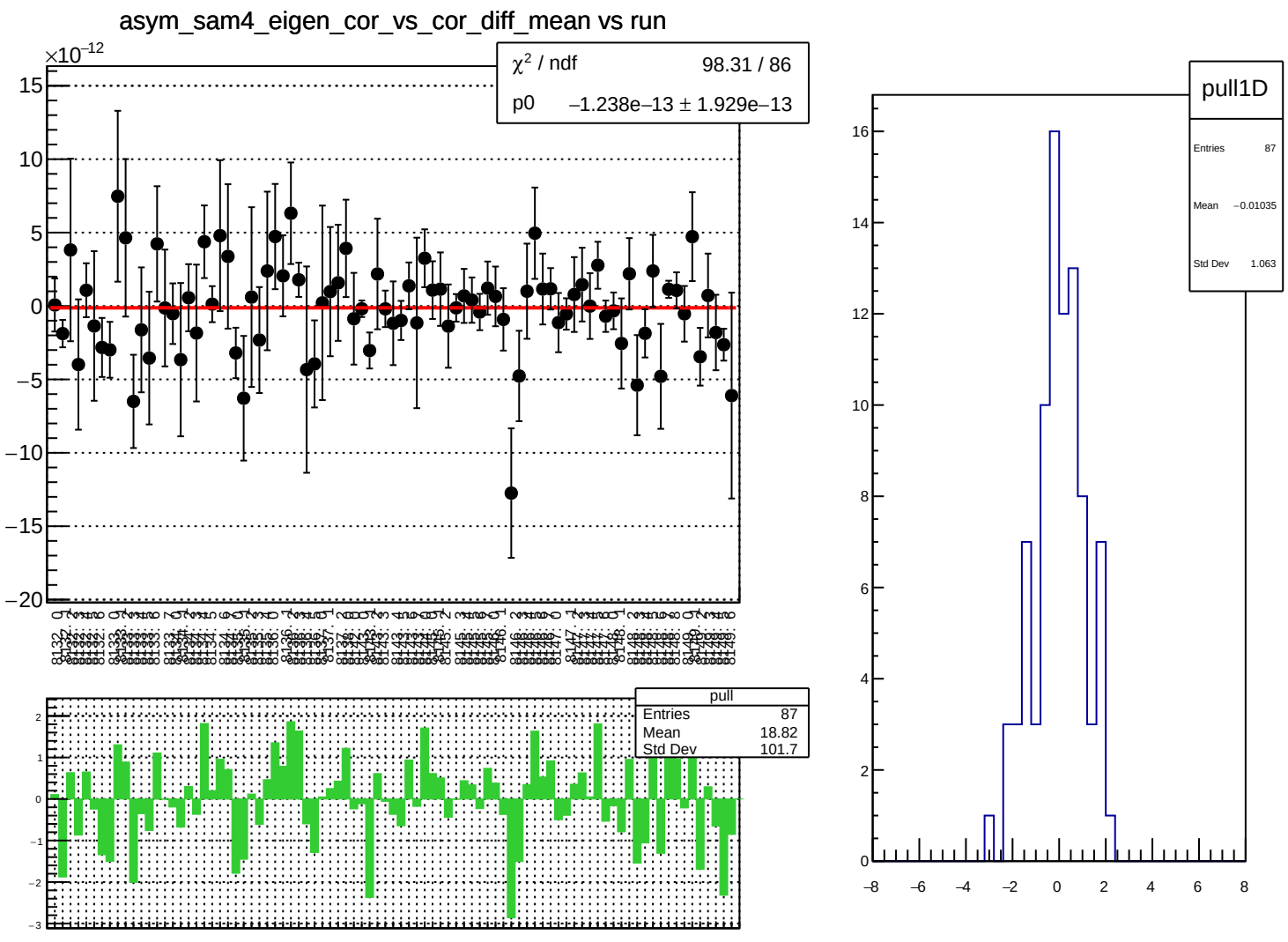

asym_sam4_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 124 / 86
p0 −0.1393 ± 0.1542
pull
Entries 87
Mean 368.6
Std Dev 0
pull1D
Entries 87
Mean 0.02258
Std Dev 1.193

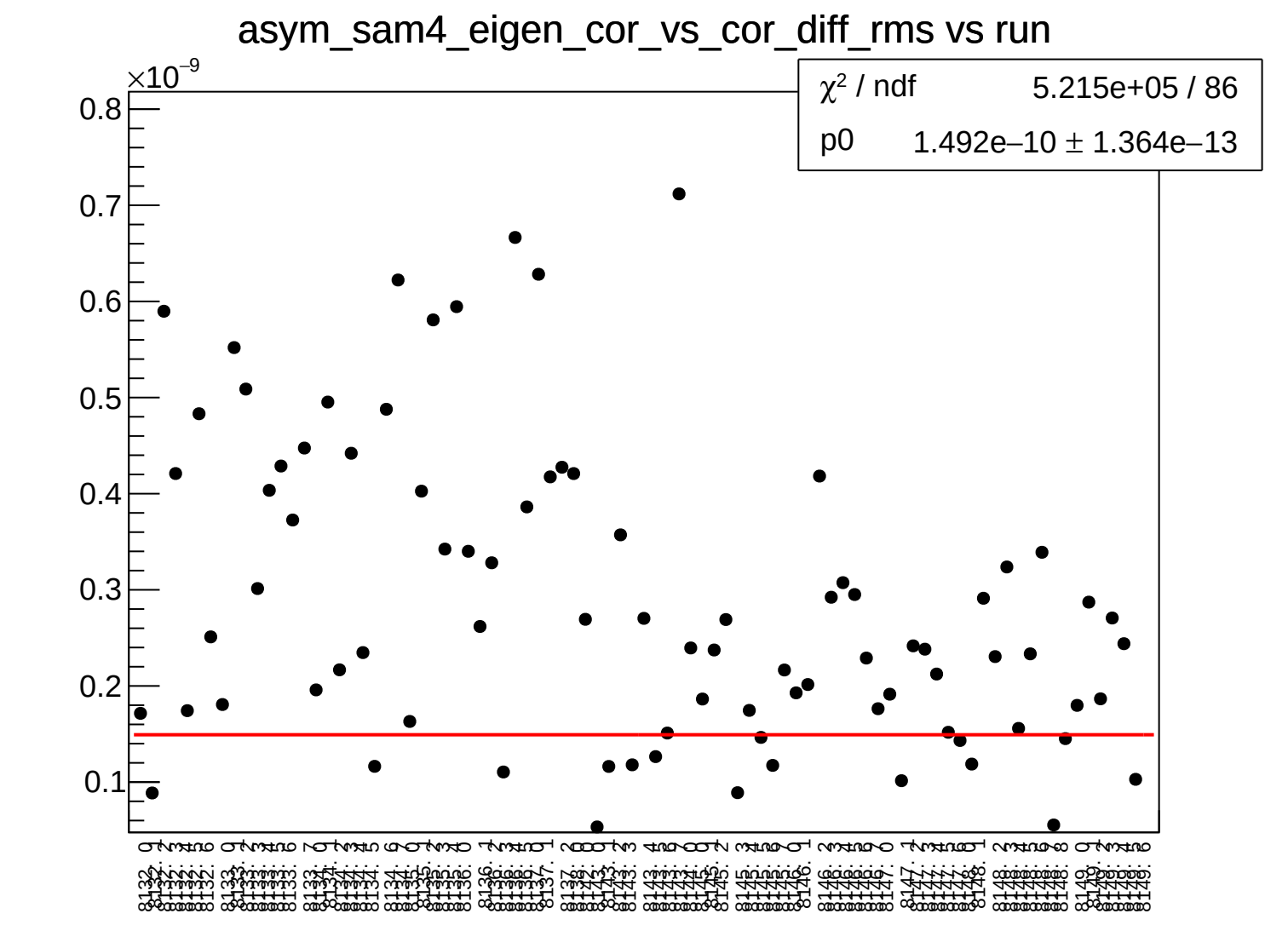

asym_sam4_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.566e+04 / 86
p0 141.1 ± 0.109
350
300
250
200
150
100

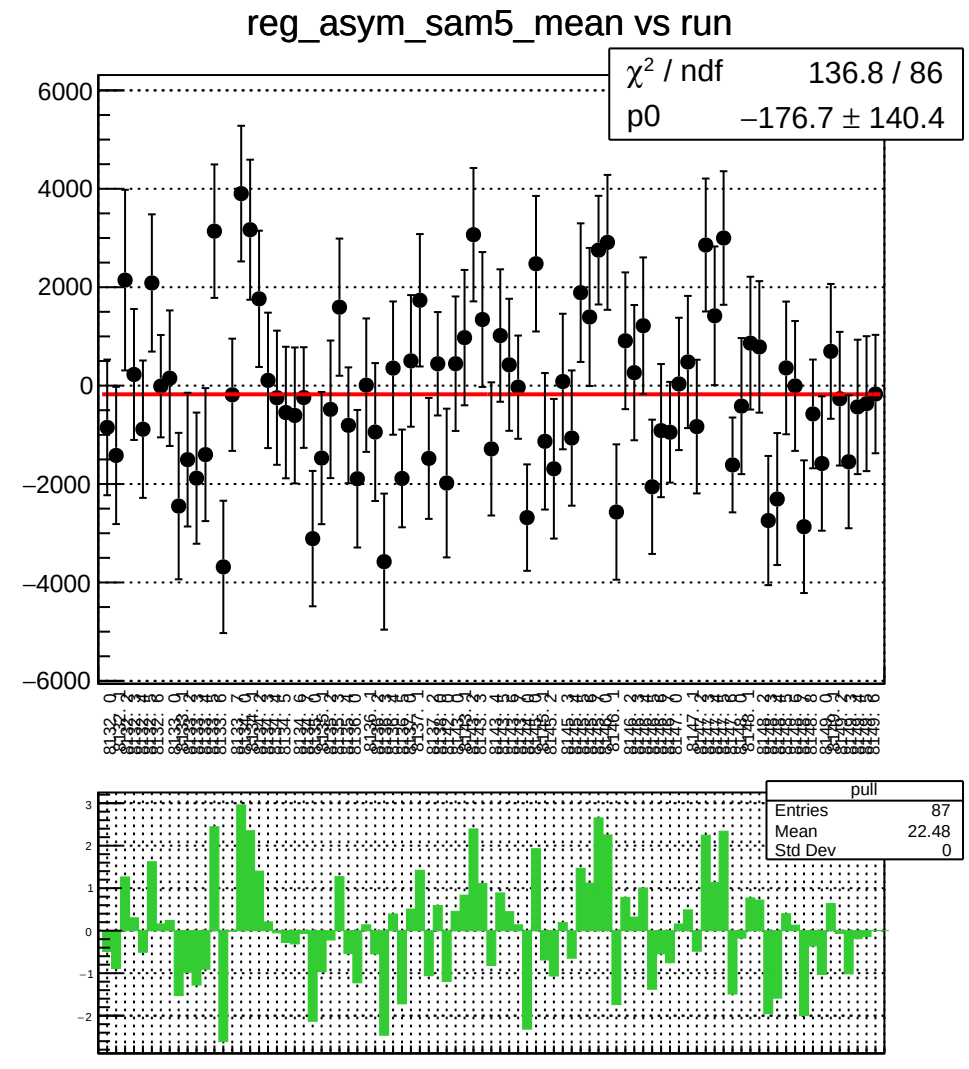

asym_sam4_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 124 / 86
p0 −0.1393 ± 0.1542
pull
Entries 87
Mean 368.6
Std Dev 0

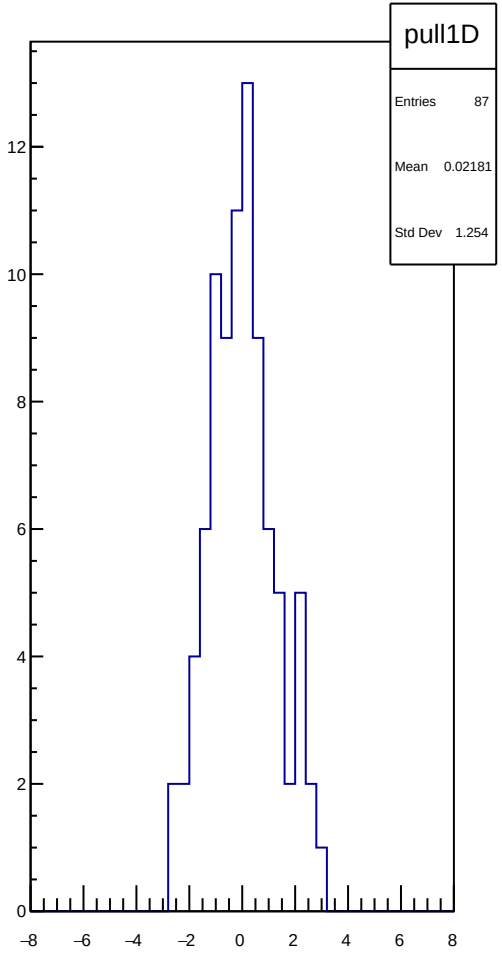

pull1D
Entries 87
Mean 0.02258
Std Dev 1.193

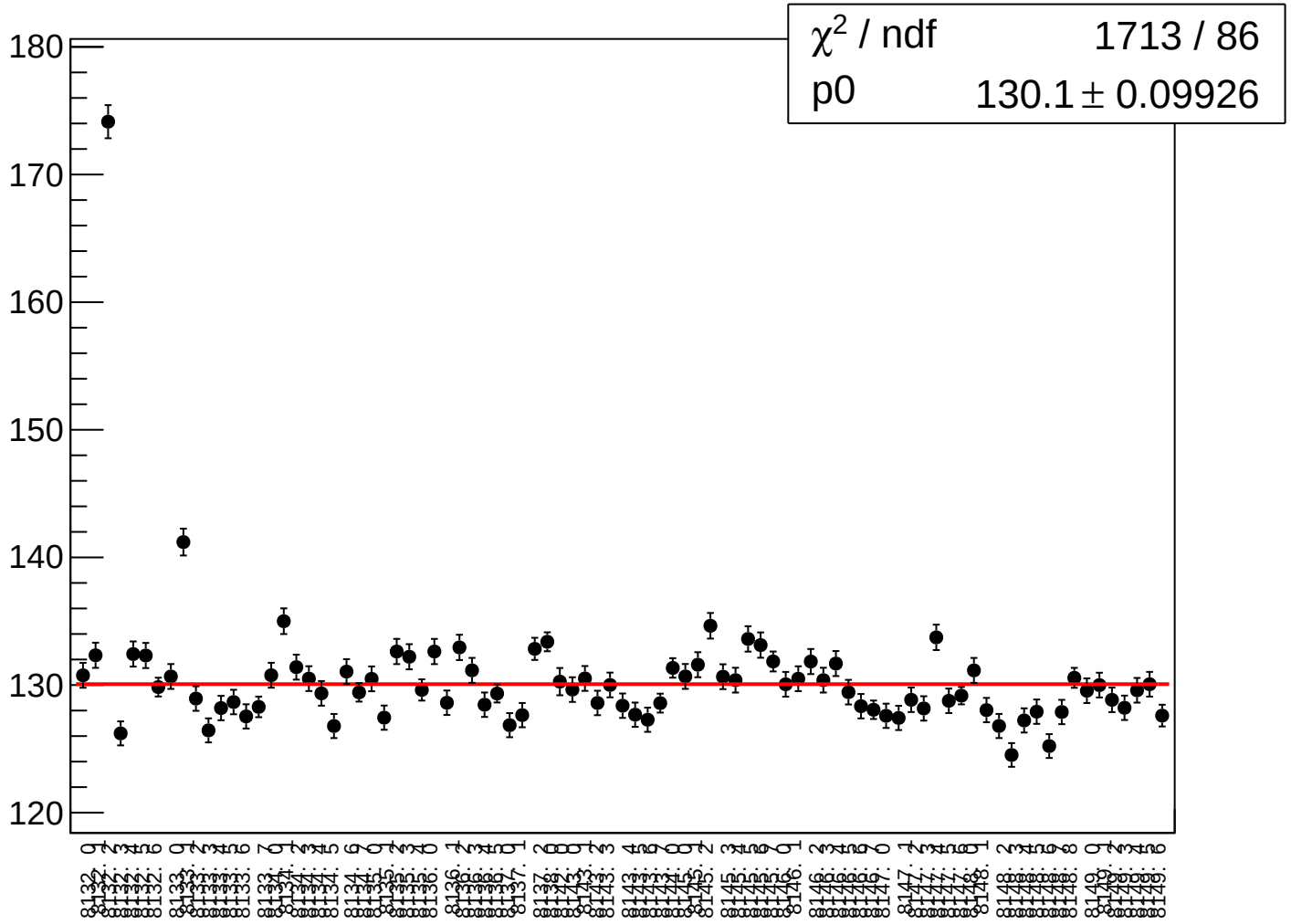

asym_sam4_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.566e+04 / 86
p0 141.1 ± 0.109
350
300
250
200
150
100

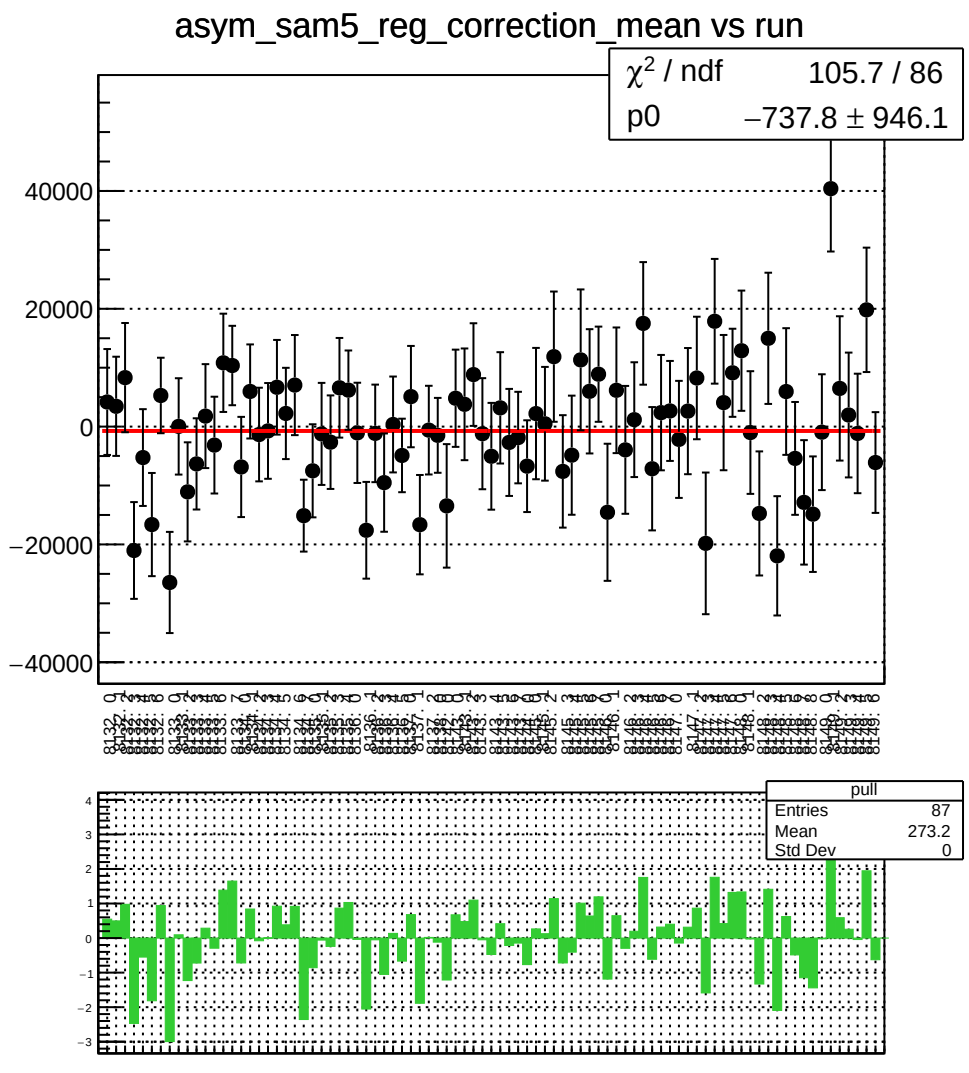

asym_sam4_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 98.31 / 86
p0 −1.238e−13 ± 1.929e−13
pull
Entries 87
Mean 18.82
Std Dev 101.7
pull1D
Entries 87
Mean −0.01035
Std Dev 1.063

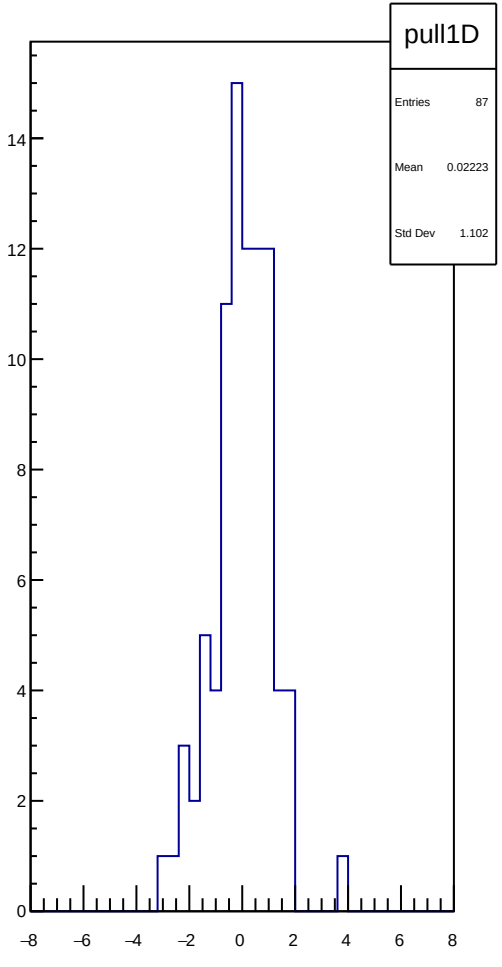

asym_sam4_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.215e+05 / 86
p0 1.492e−10 ± 1.364e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

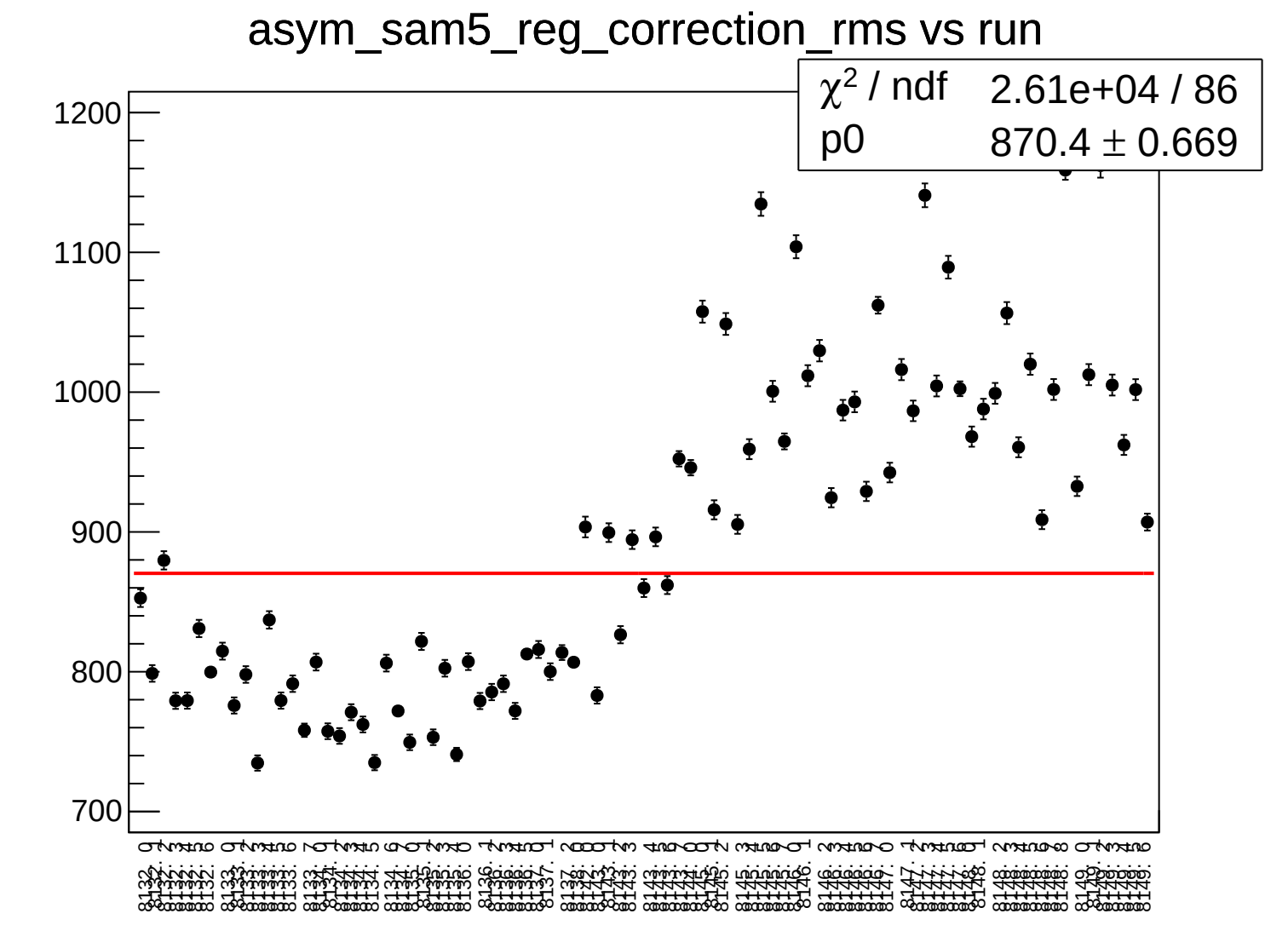

reg_asym_sam5_mean vs run
χ² / ndf 136.8 / 86
p0 −176.7 ± 140.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 87
Mean 22.48
Std Dev 0
3
2
1
0
−1
−2

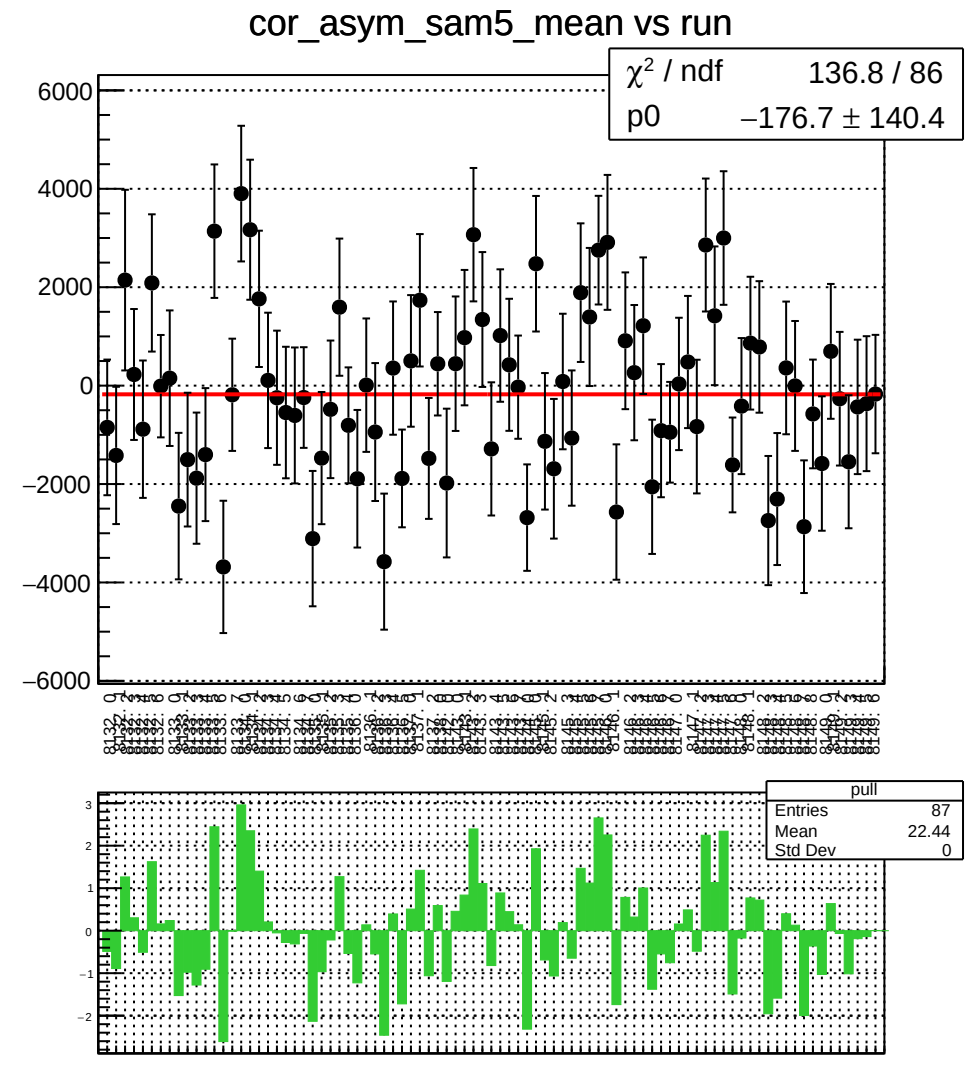

pull1D
Entries 87
Mean 0.02181
Std Dev 1.254
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

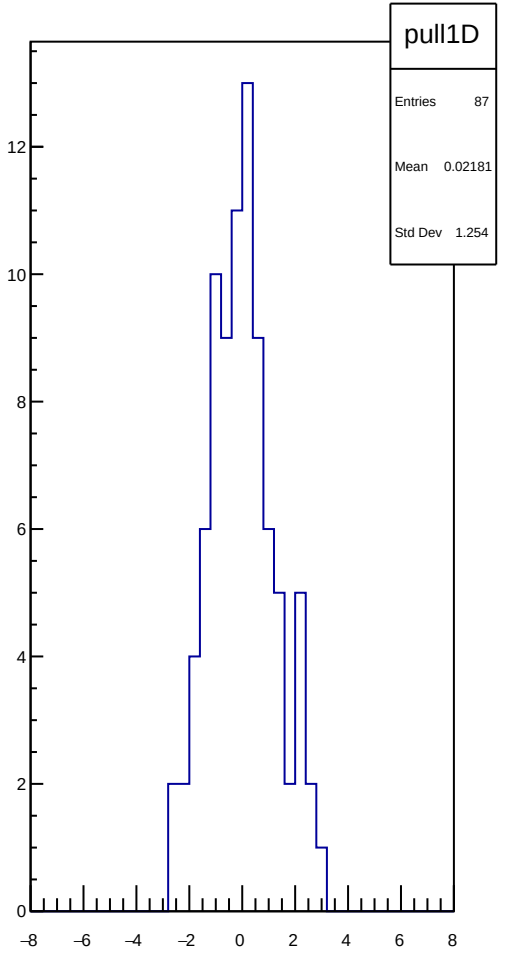

reg_asym_sam5_rms vs run
χ^2 / ndf 1713 / 86
p0 130.1 ± 0.09926
180
170
160
150
140
130
120

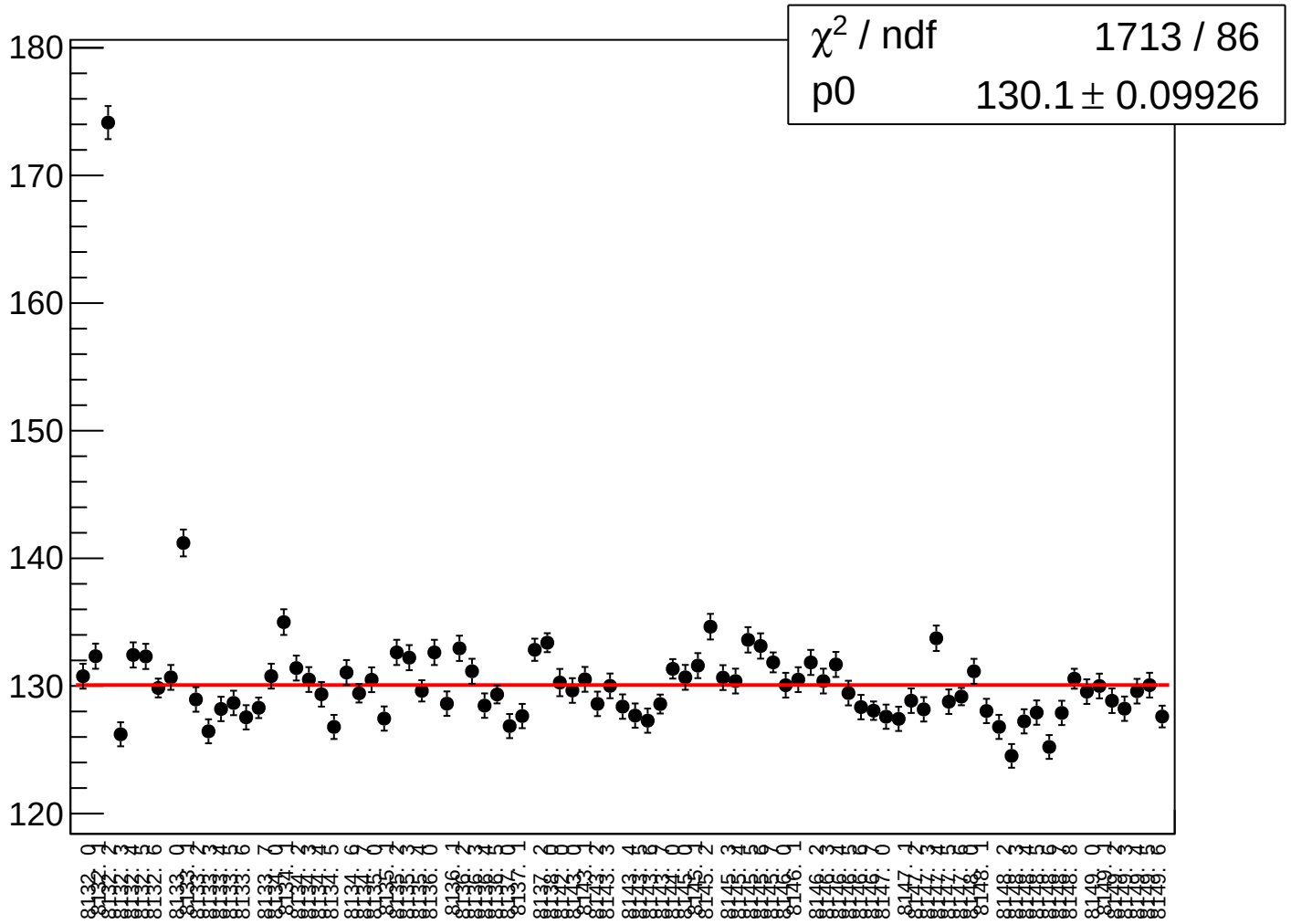

asym_sam5_reg_correction_mean vs run
χ² / ndf 105.7 / 86
p0 −737.8 ± 946.1
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 273.2
Std Dev 0
4
3
2
1
0
−1
−2
−3

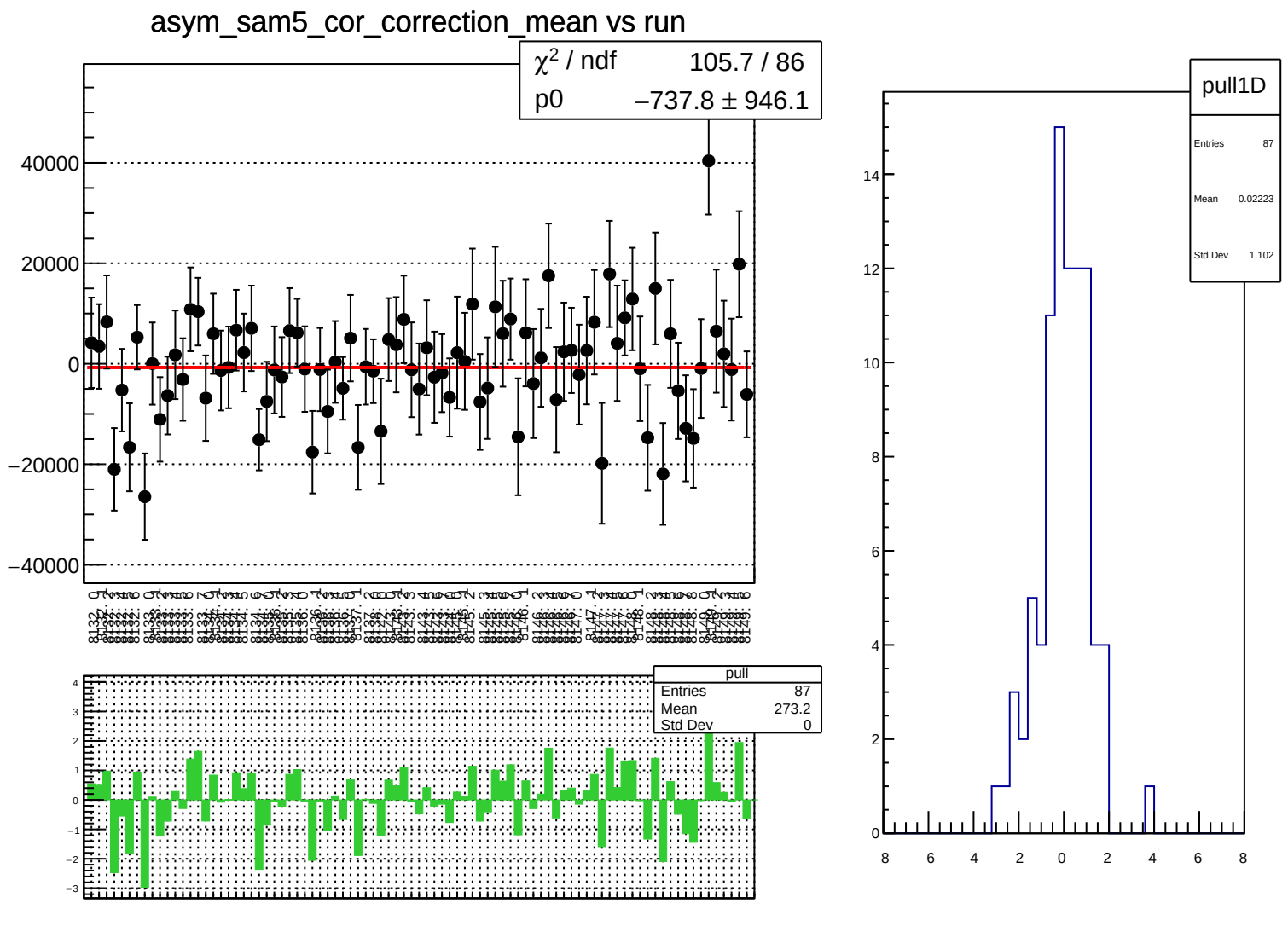

pull1D
Entries 87
Mean 0.02223
Std Dev 1.102
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

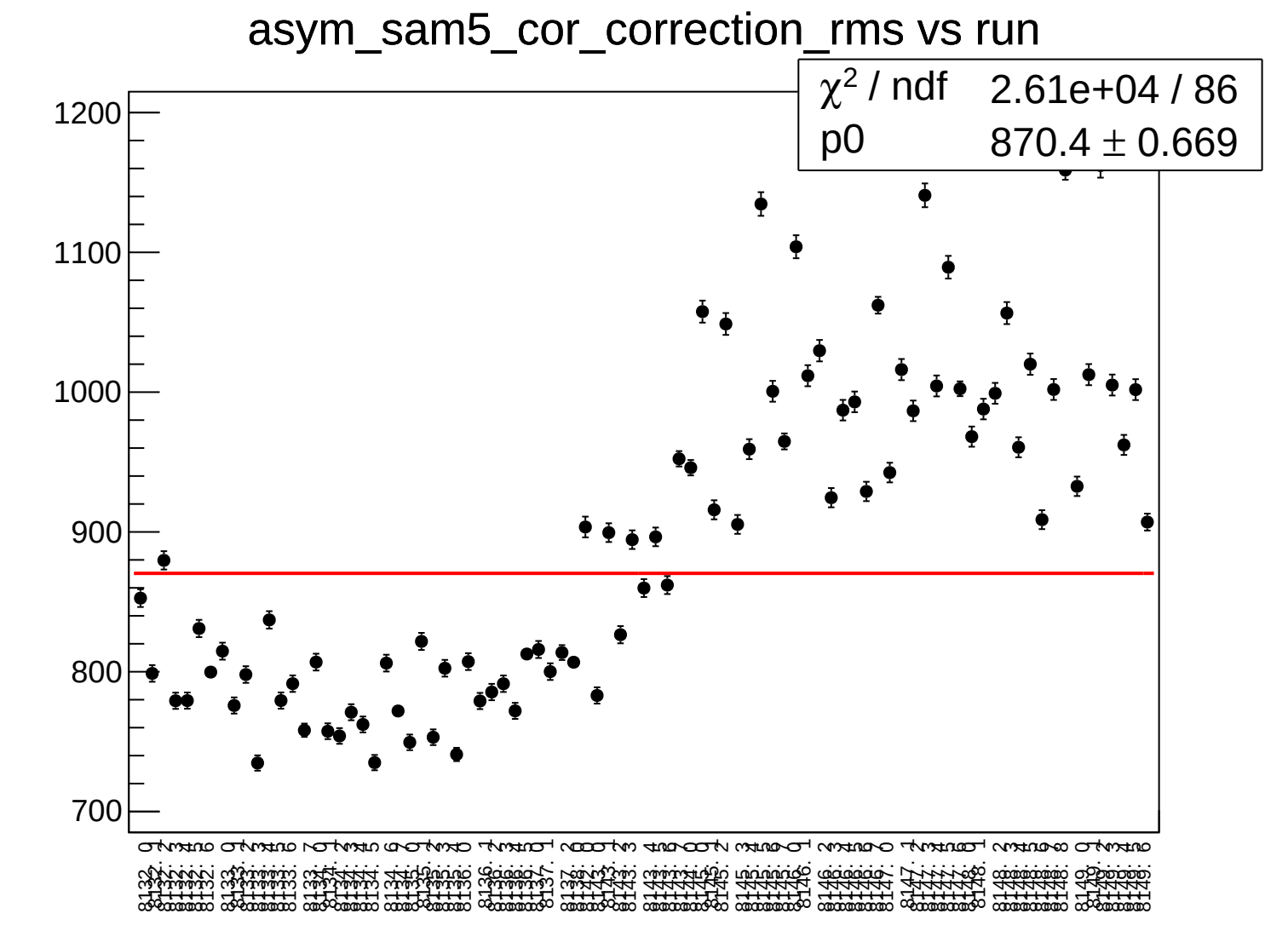

asym_sam5_reg_correction_rms vs run
χ² / ndf 2.61e+04 / 86
p0 870.4 ± 0.669
1200
1100
1000
900
800
700

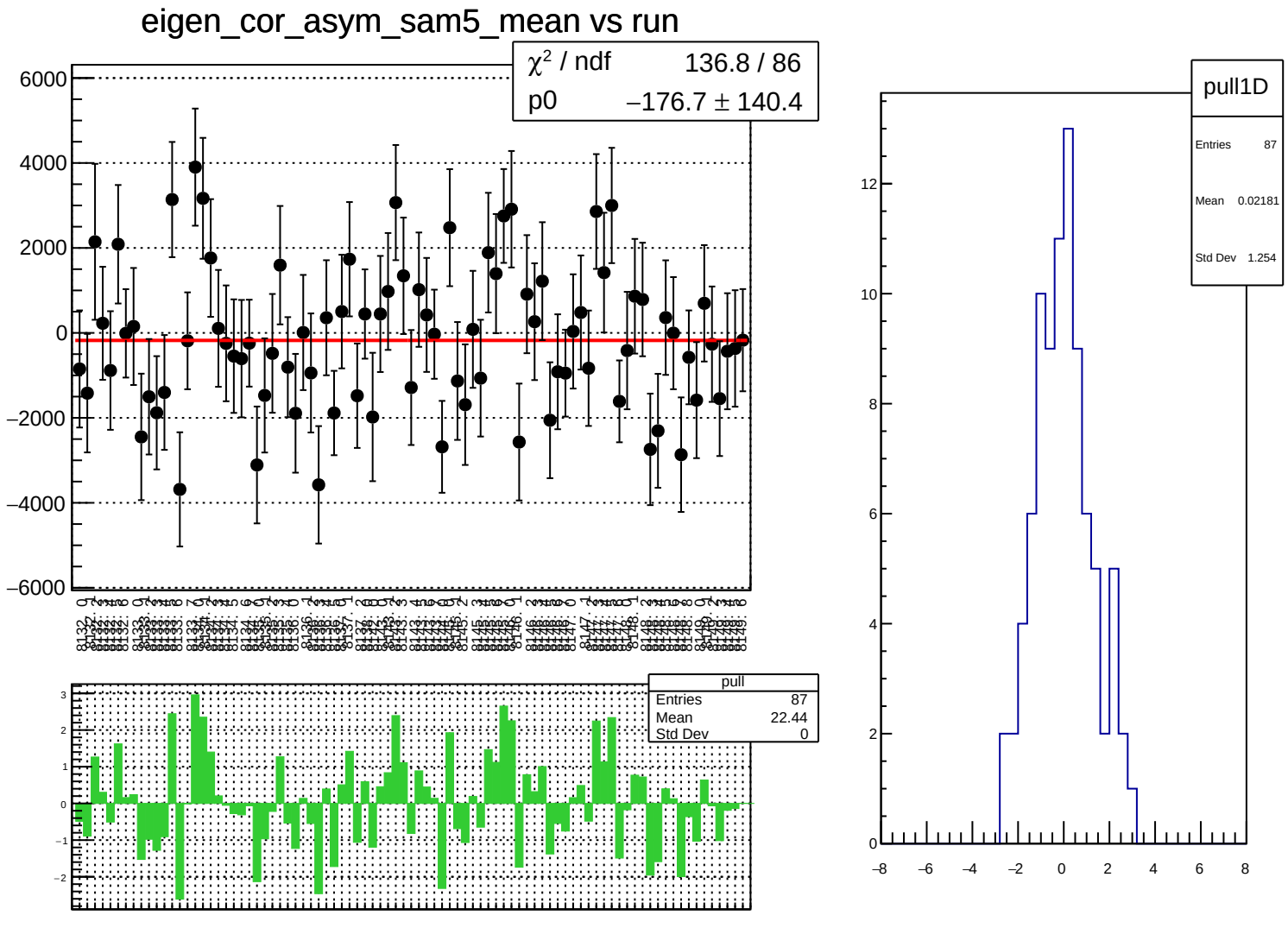

cor_asym_sam5_mean vs run
χ² / ndf 136.8 / 86
p0 −176.7 ± 140.4
pull
Entries 87
Mean 22.44
Std Dev 0


pull1D
Entries 87
Mean 0.02181
Std Dev 1.254

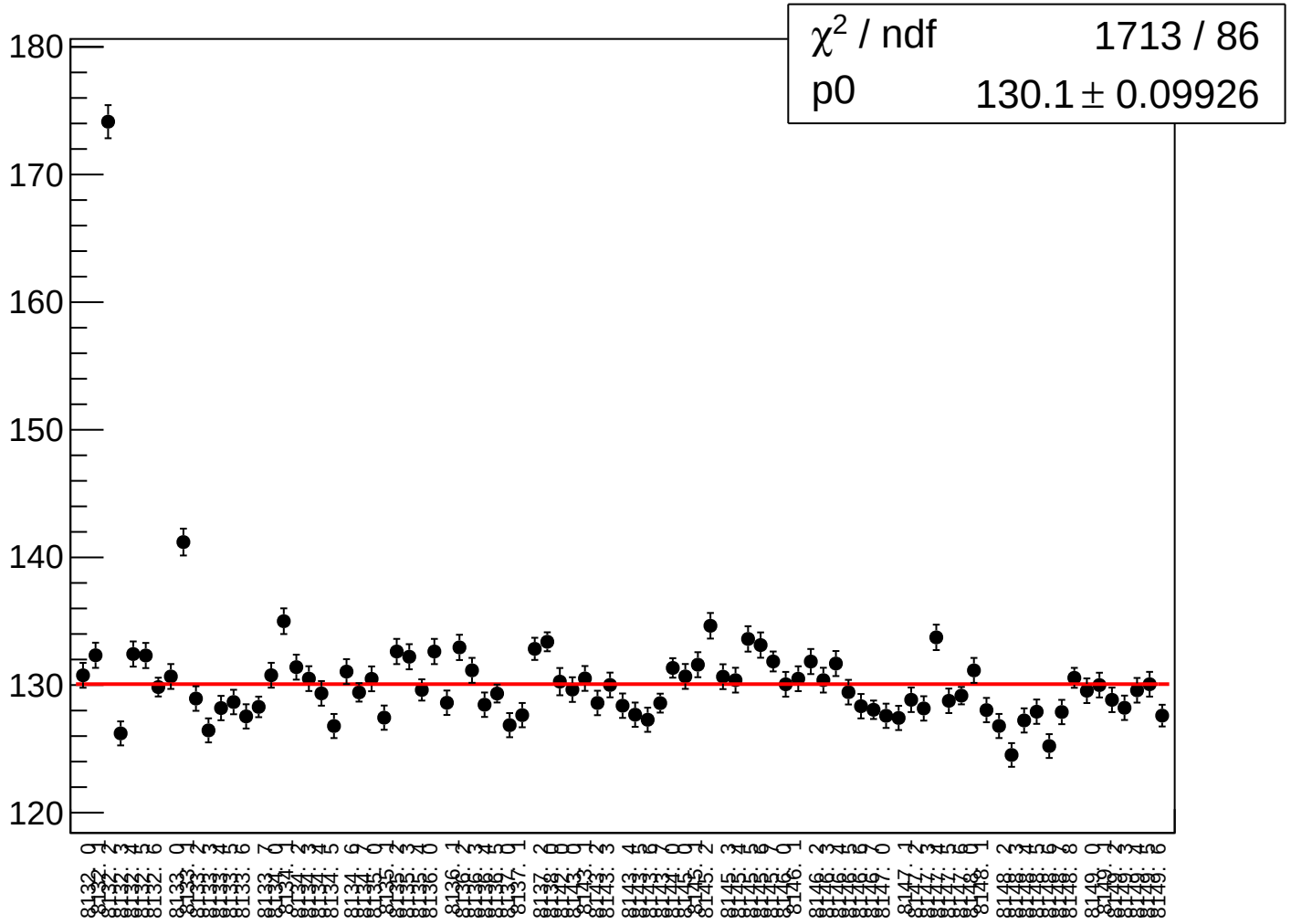

cor_asym_sam5_rms vs run
χ^2 / ndf 1713 / 86
p0 130.1 ± 0.09926
180
170
160
150
140
130
120

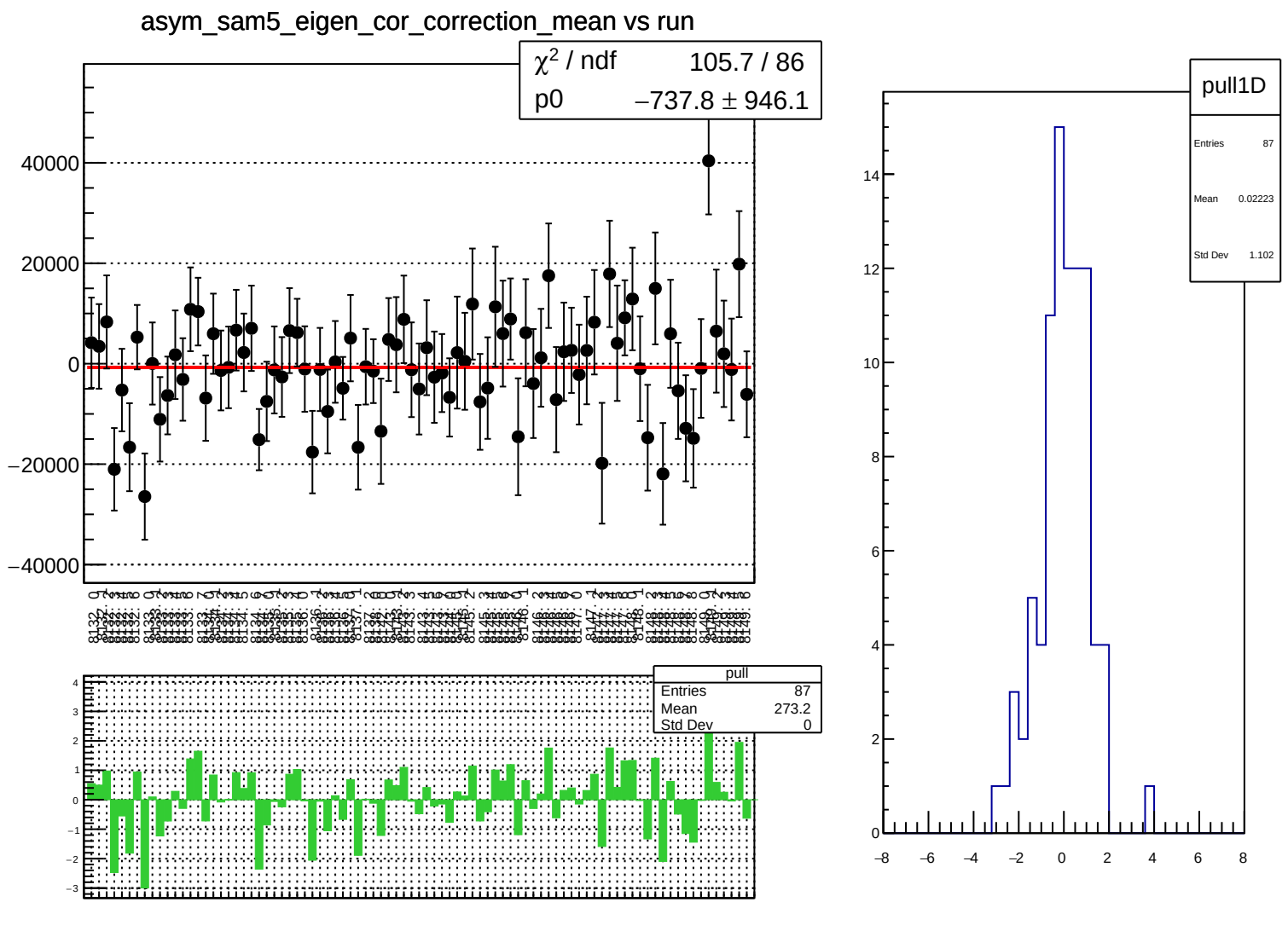

asym_sam5_cor_correction_mean vs run
χ² / ndf 105.7 / 86
p0 −737.8 ± 946.1
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 273.2
Std Dev 0
pull1D
Entries 87
Mean 0.02223
Std Dev 1.102

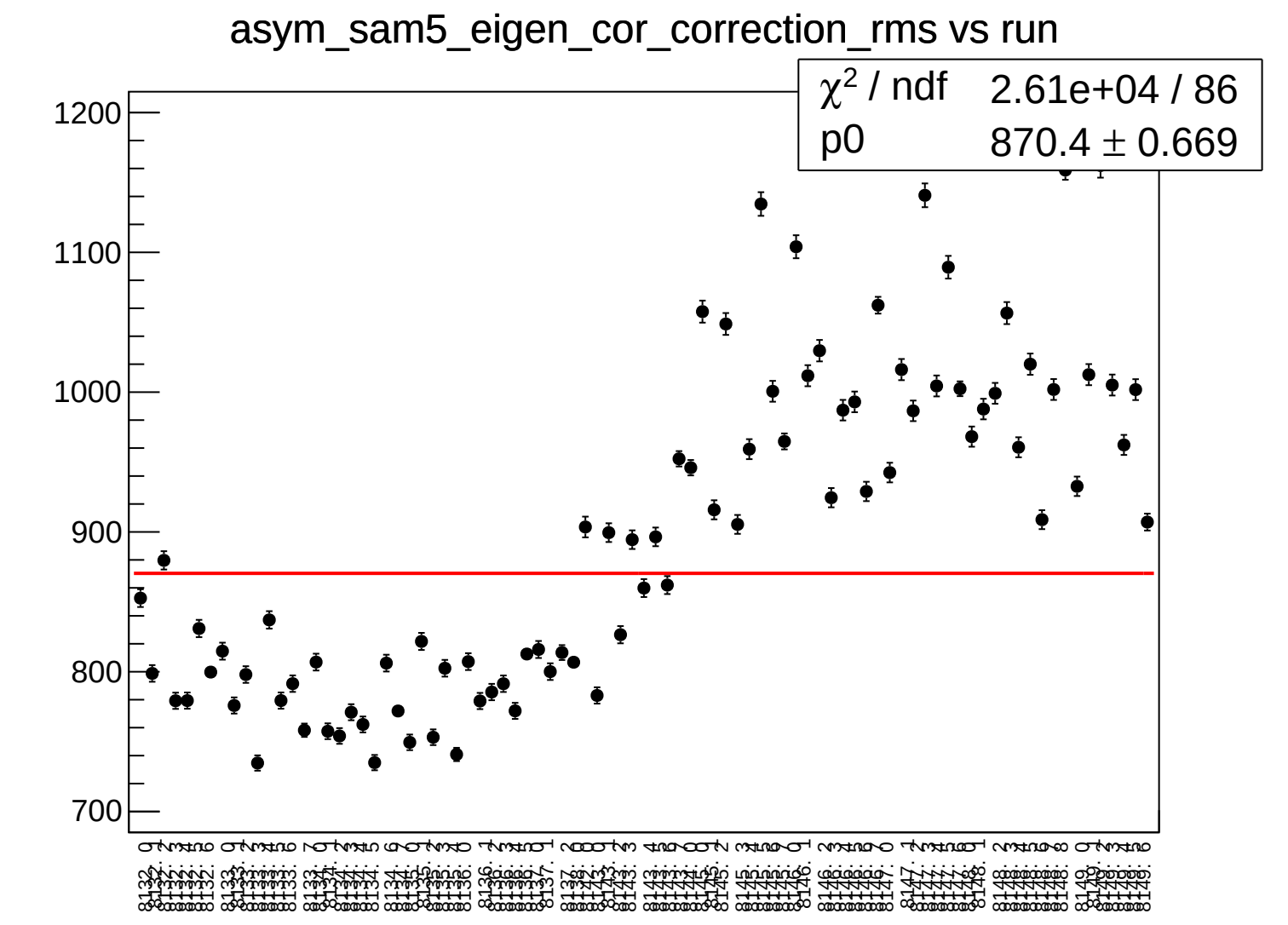

asym_sam5_cor_correction_rms vs run
χ² / ndf 2.61e+04 / 86
p0 870.4 ± 0.669
1200
1100
1000
900
800
700

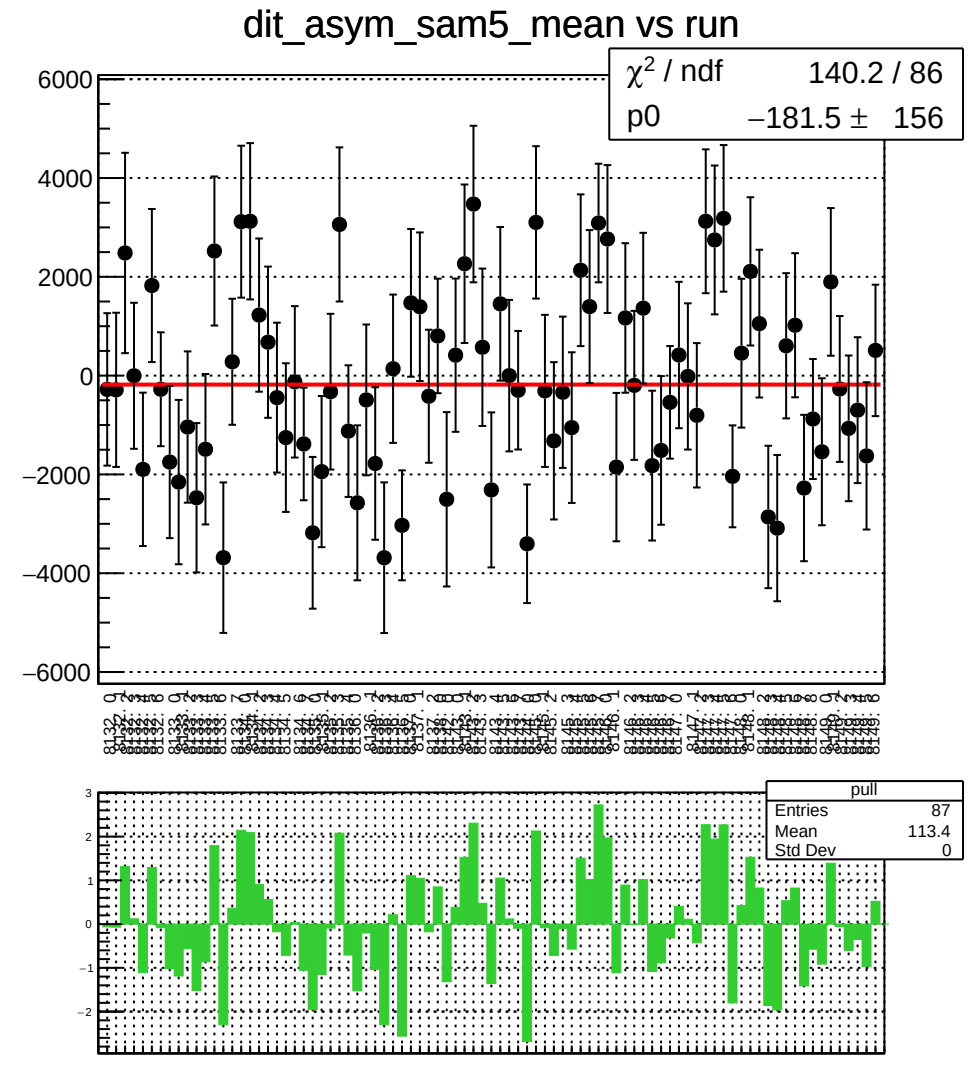

eigen_cor_asym_sam5_mean vs run
χ² / ndf 136.8 / 86
p0 −176.7 ± 140.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 87
Mean 22.44
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.02181
Std Dev 1.254
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

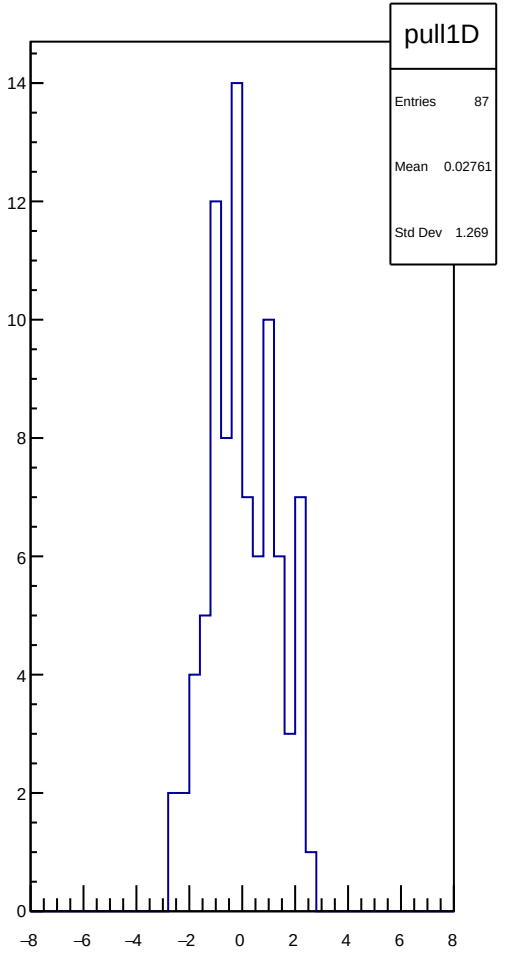
eigen_cor_asym_sam5_rms vs run

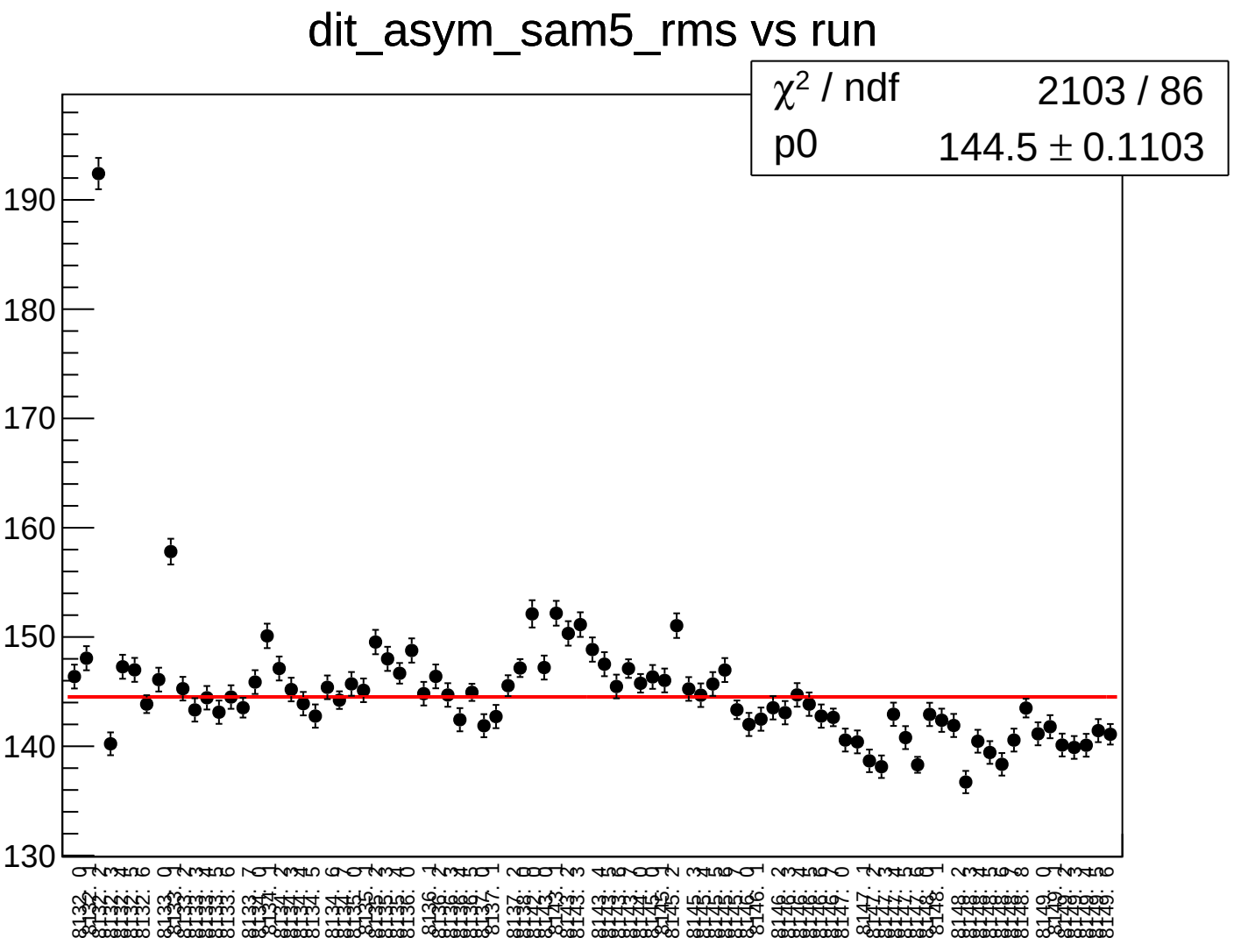


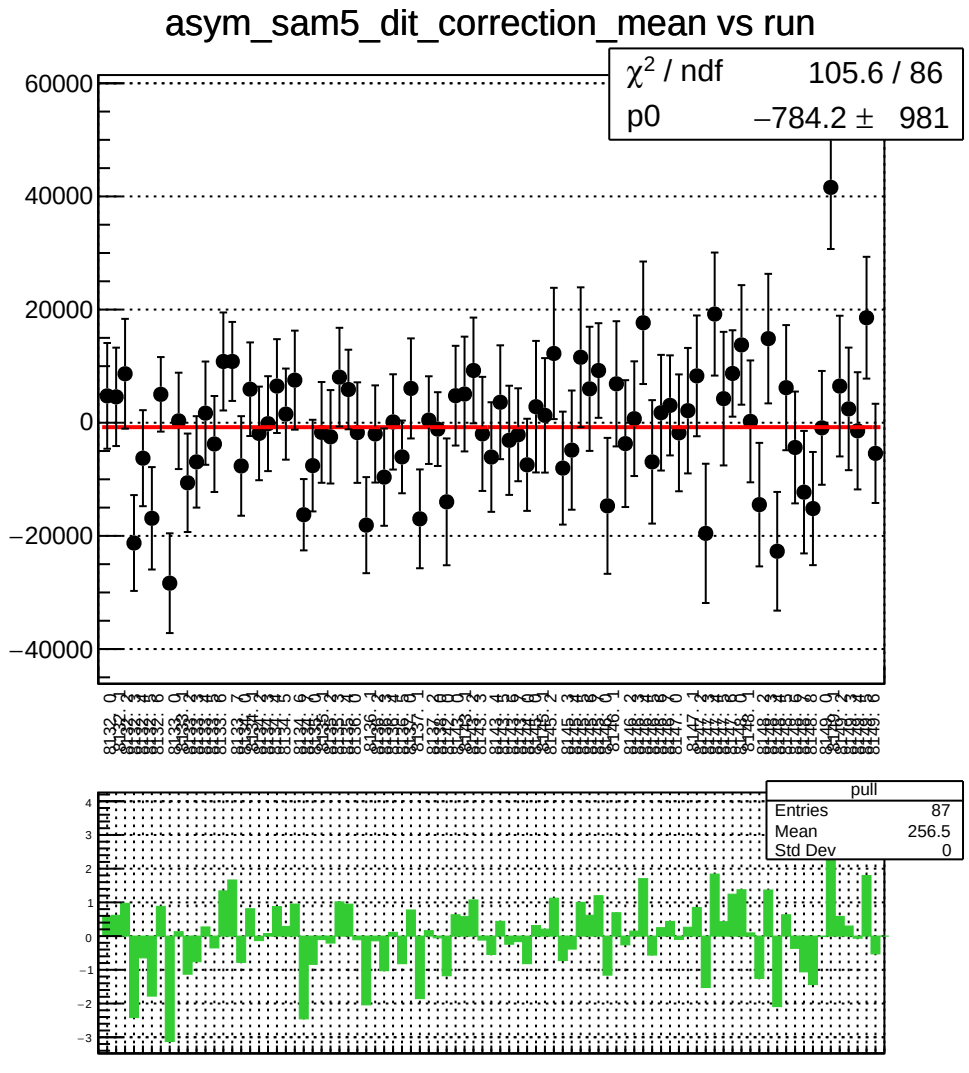

asym_sam5_eigen_cor_correction_mean vs run
χ² / ndf 105.7 / 86
p0 −737.8 ± 946.1
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 273.2
Std Dev 0
pull1D
Entries 87
Mean 0.02223
Std Dev 1.102

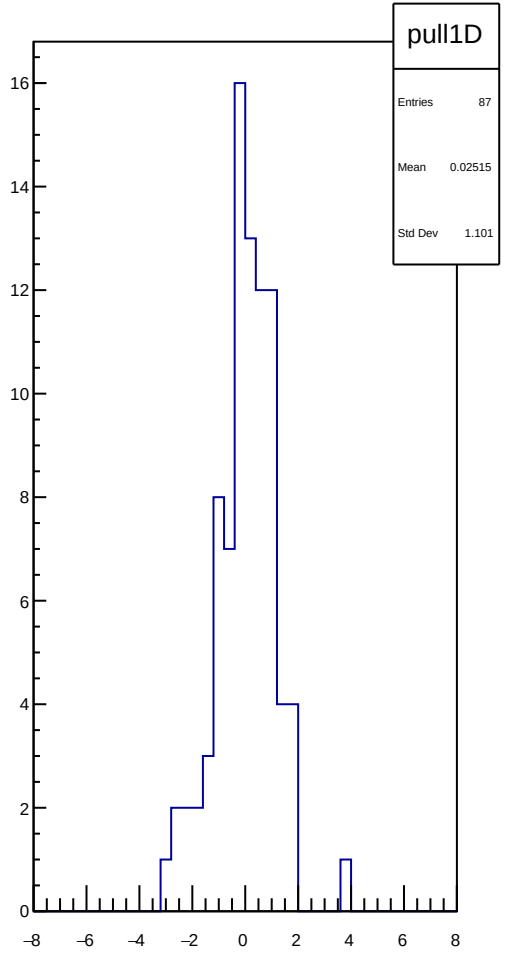

asym_sam5_eigen_cor_correction_rms vs run
χ² / ndf 2.61e+04 / 86
p0 870.4 ± 0.669
1200
1100
1000
900
800
700

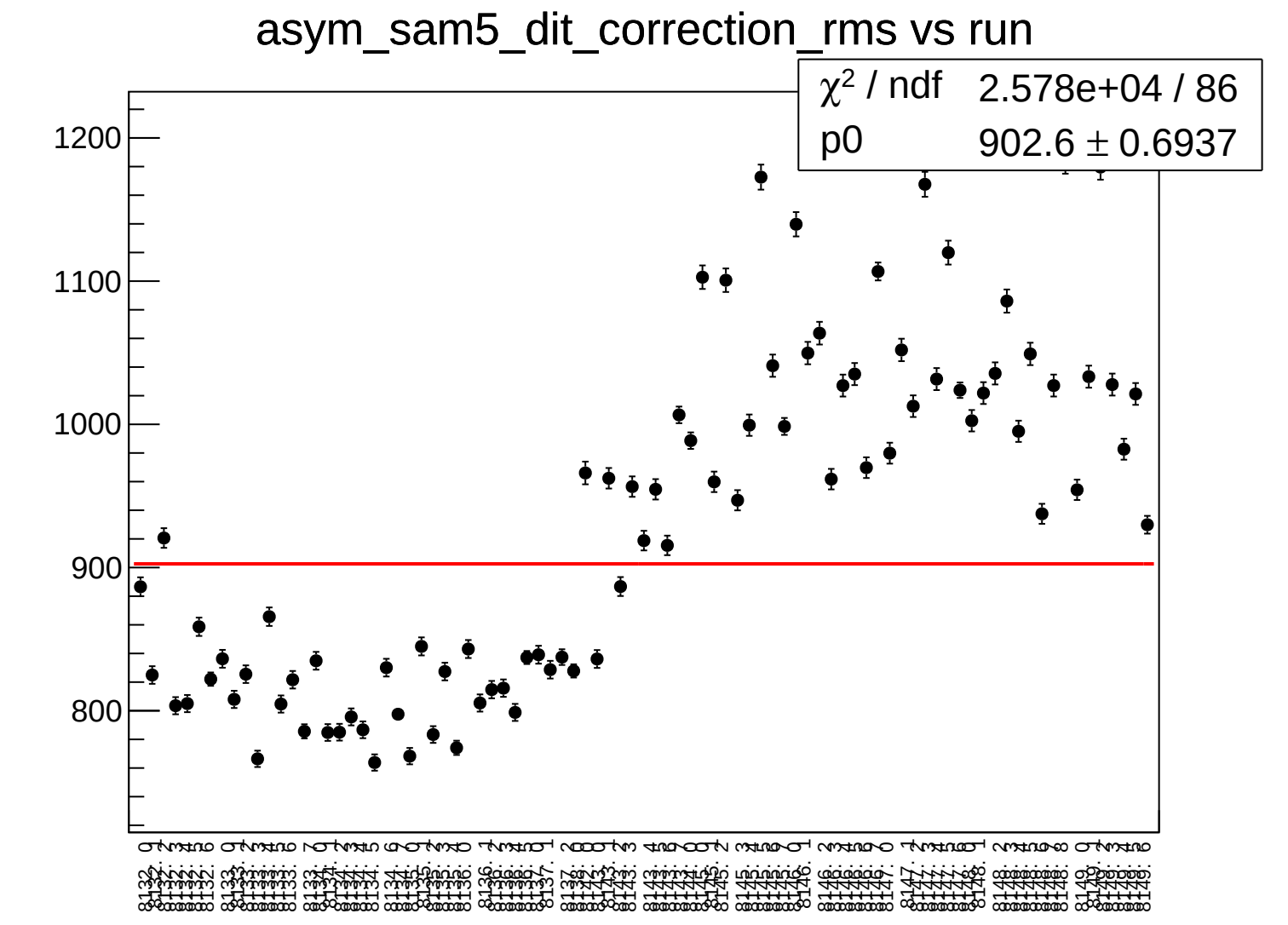

dit_asym_sam5_mean vs run
χ² / ndf 140.2 / 86
p0 −181.5 ± 156
pull
Entries 87
Mean 113.4
Std Dev 0

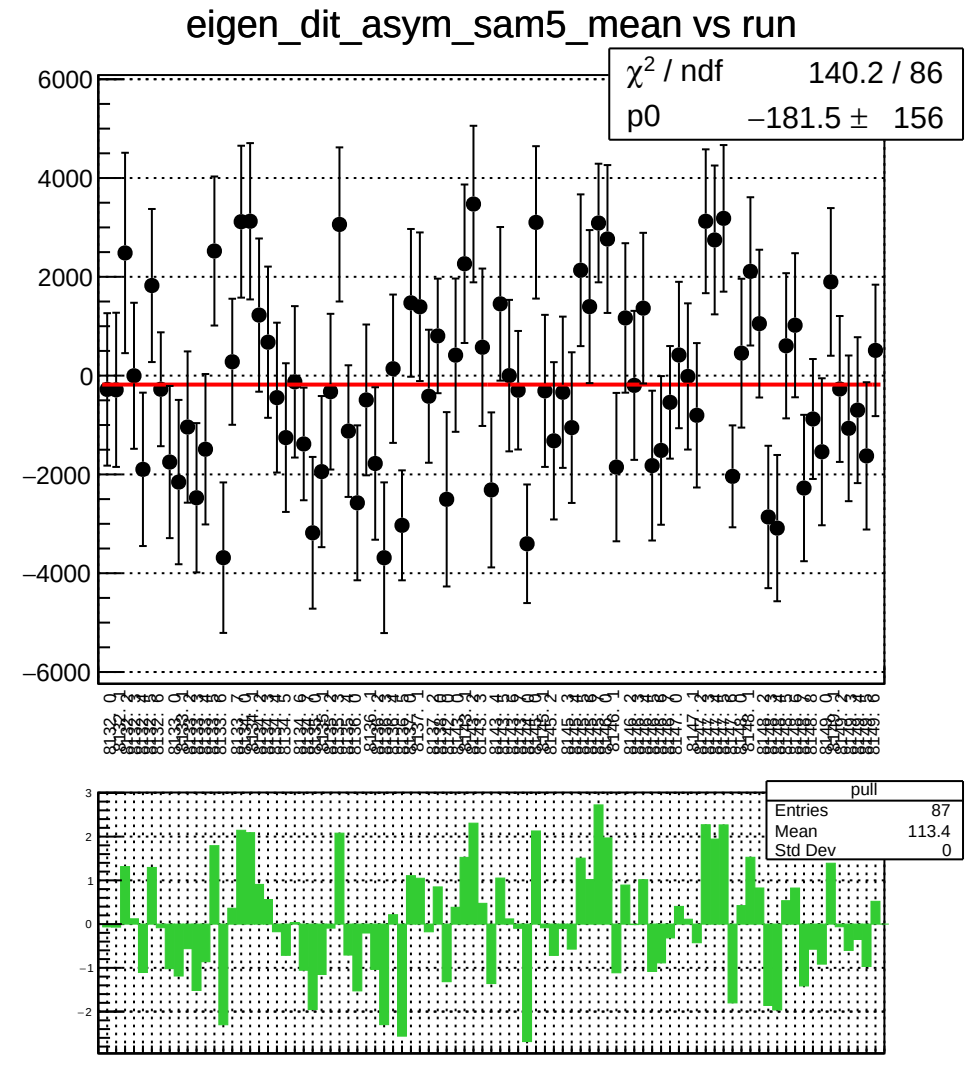

pull1D
Entries 87
Mean 0.02761
Std Dev 1.269

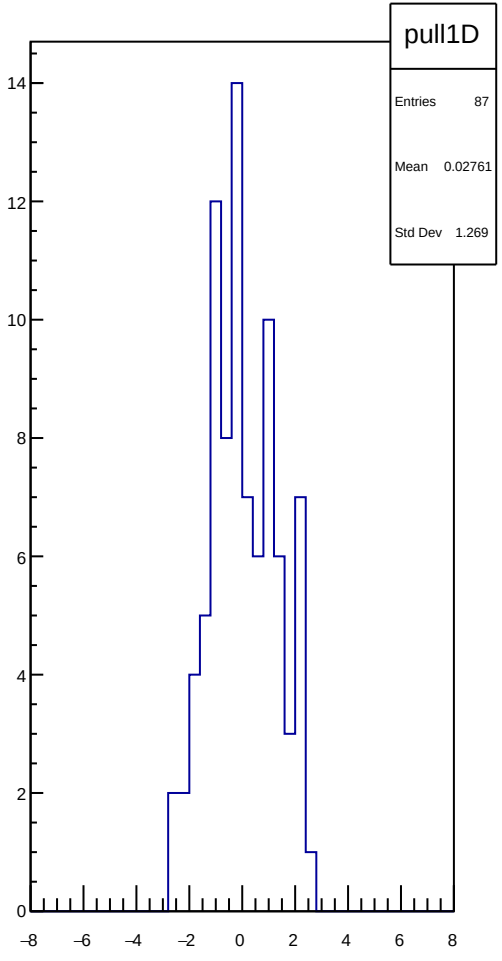

dit_asym_sam5_rms vs run
χ² / ndf 2103 / 86
p0 144.5 ± 0.1103
190
180
170
160
150
140
130

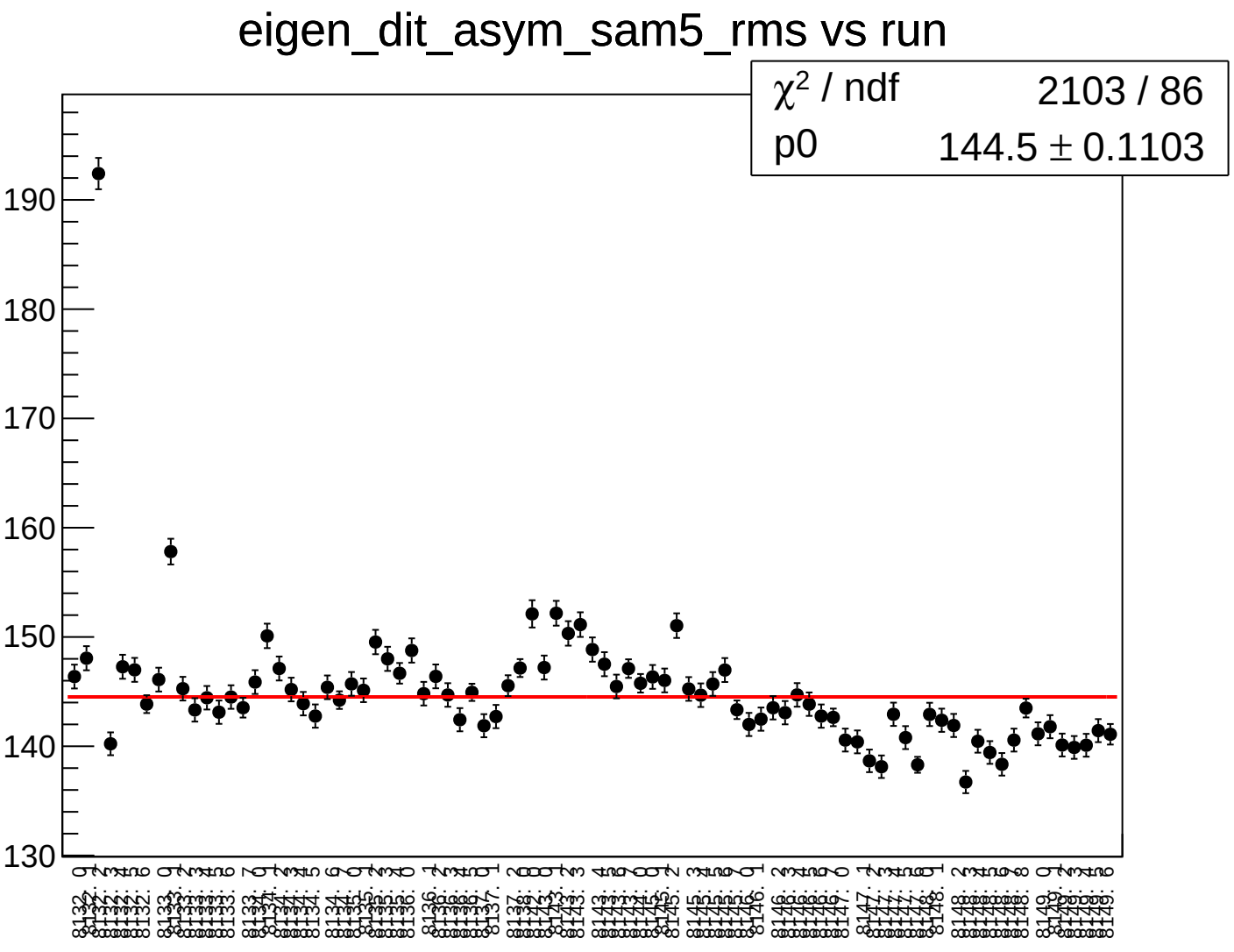

asym_sam5_dit_correction_mean vs run
χ² / ndf 105.6 / 86
p0 −784.2 ± 981
pull
Entries 87
Mean 256.5
Std Dev 0

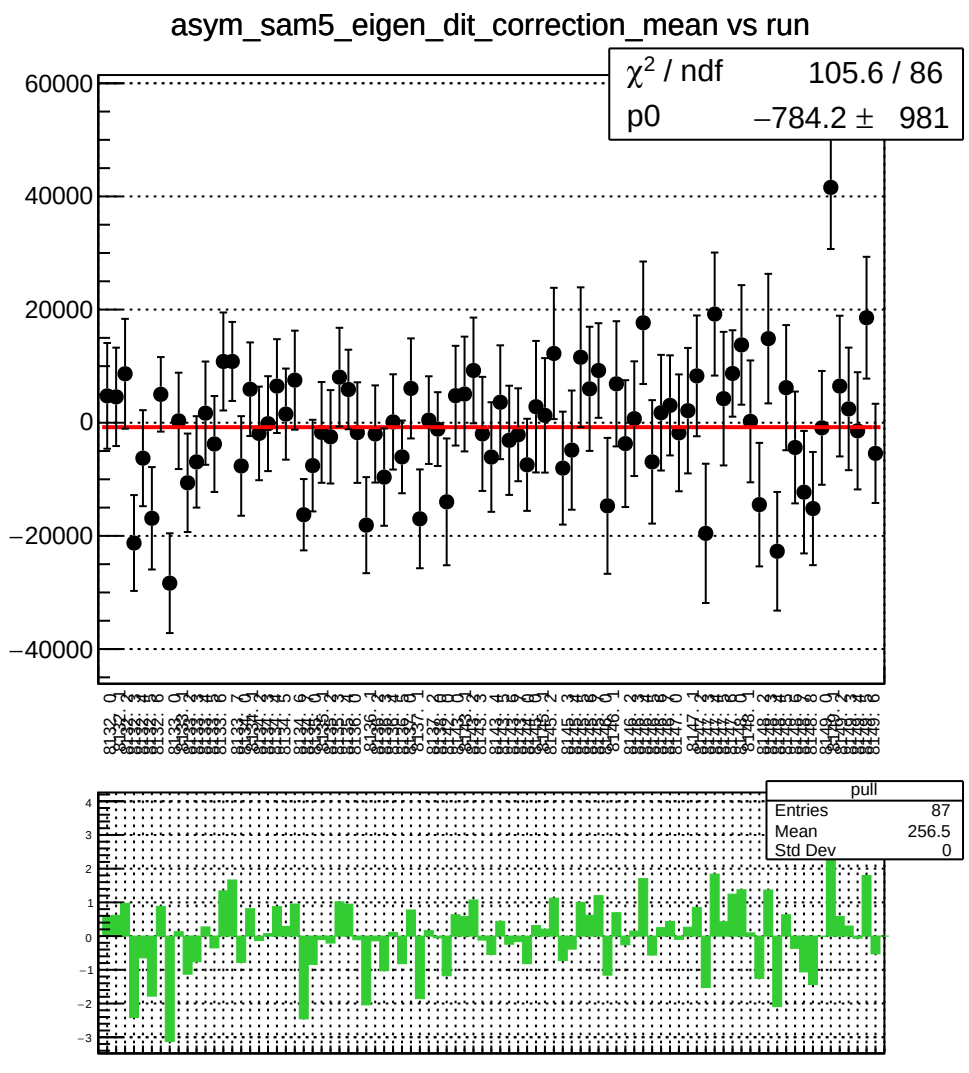

pull1D
Entries 87
Mean 0.02515
Std Dev 1.101

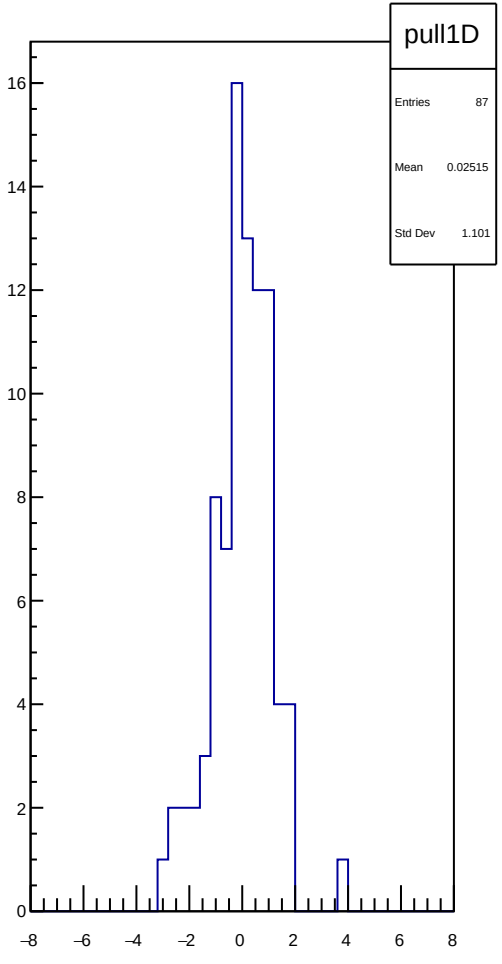

asym_sam5_dit_correction_rms vs run
χ² / ndf 2.578e+04 / 86
p0 902.6 ± 0.6937
1200
1100
1000
900
800

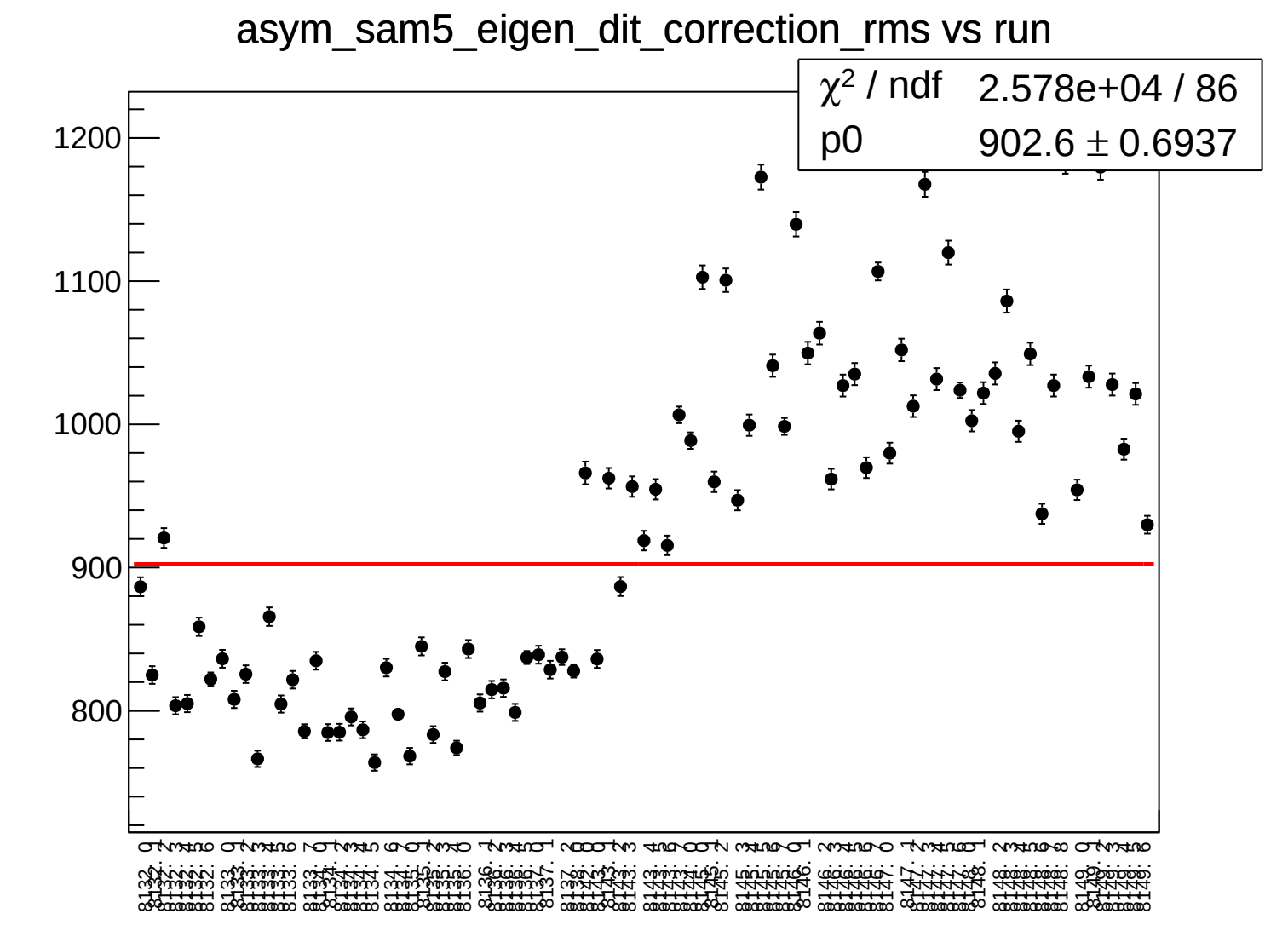

eigen_dit_asym_sam5_mean vs run
χ² / ndf 140.2 / 86
p0 −181.5 ± 156
pull
Entries 87
Mean 113.4
Std Dev 0

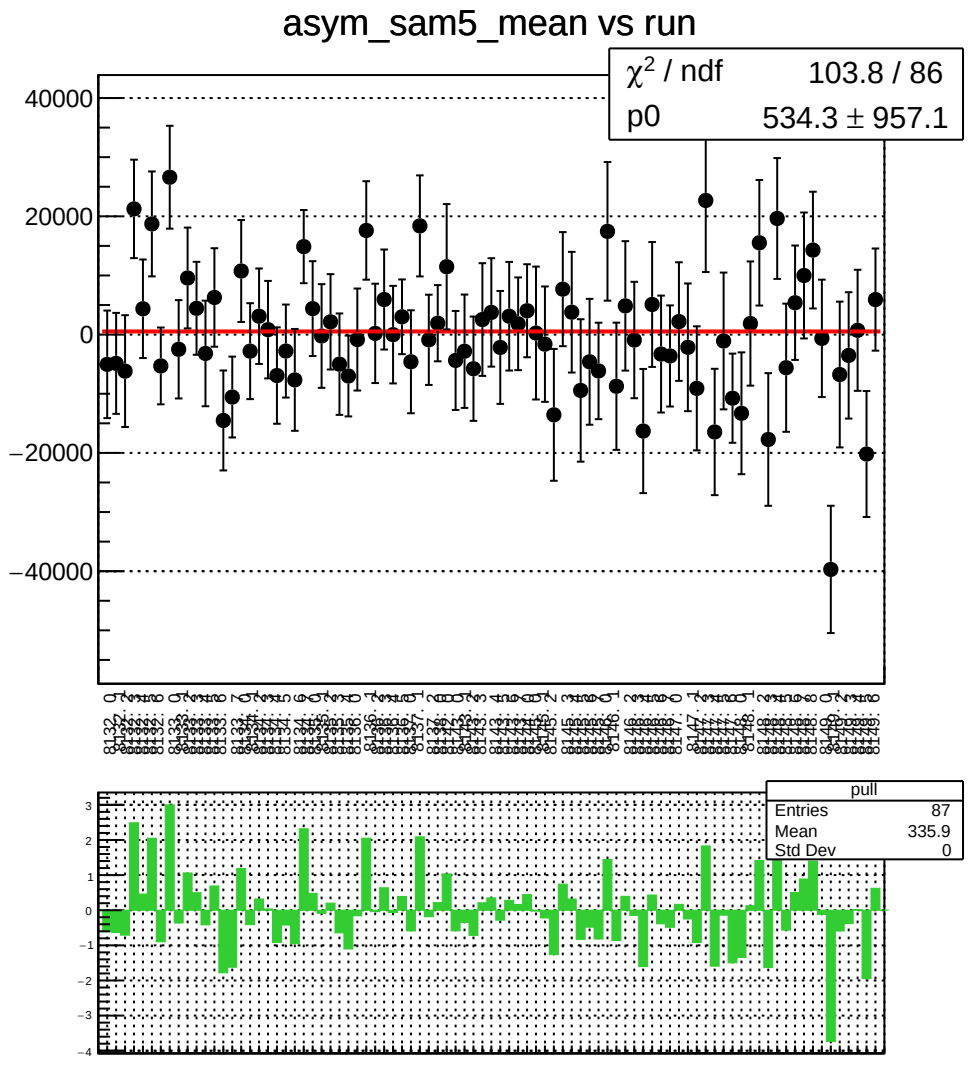

pull1D
Entries 87
Mean 0.02761
Std Dev 1.269

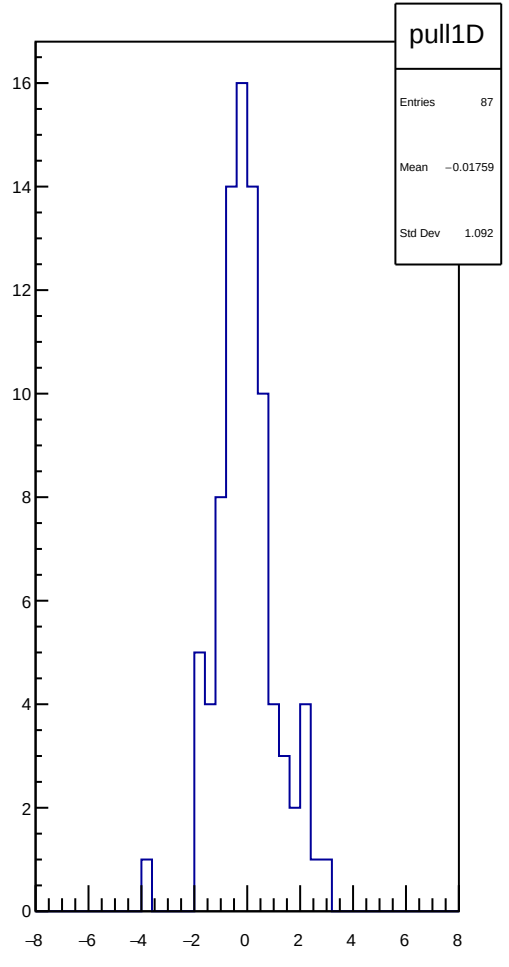

eigen_dit_asym_sam5_rms vs run
χ² / ndf 2103 / 86
p0 144.5 ± 0.1103
190
180
170
160
150
140
130

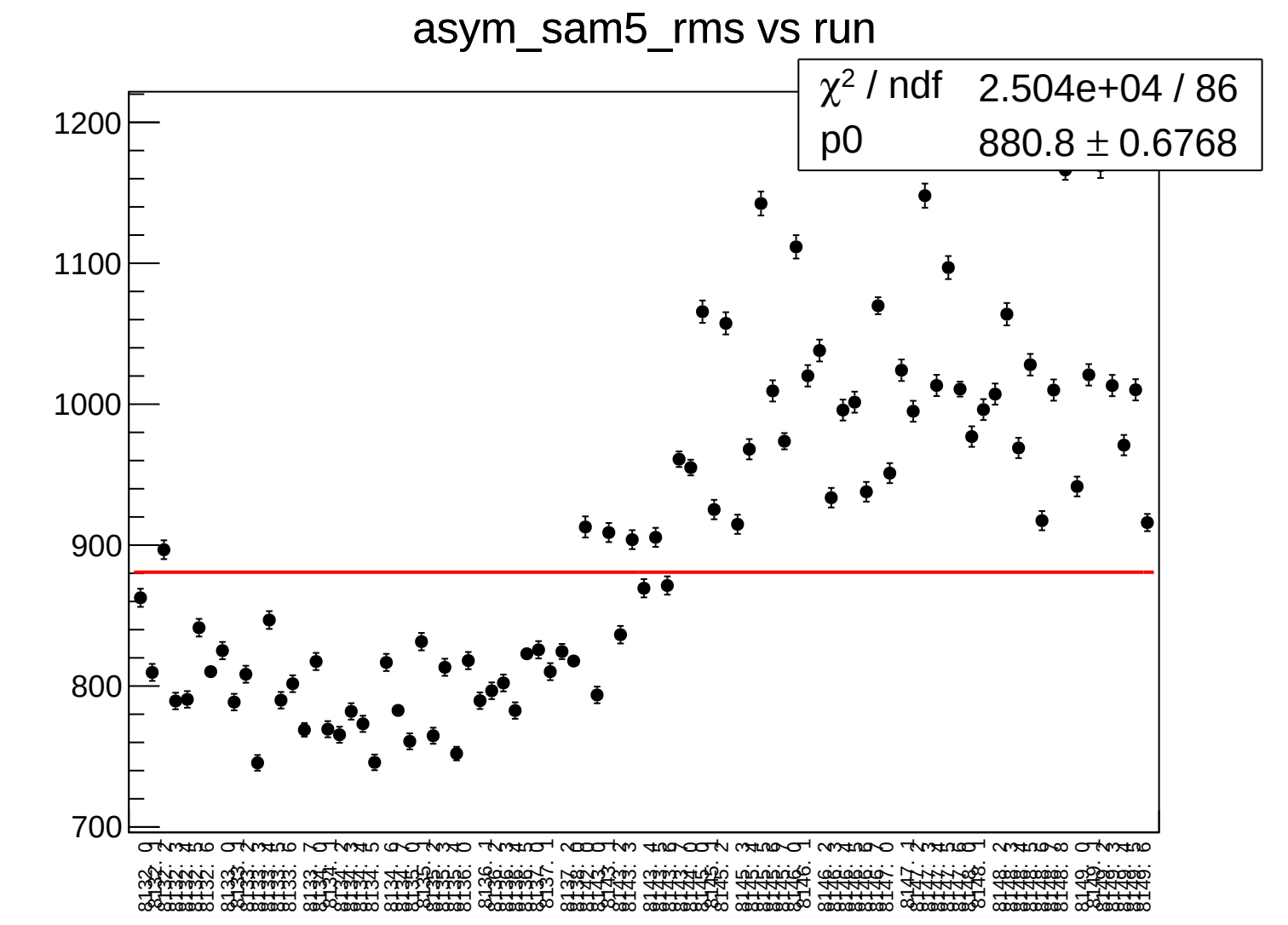

asym_sam5_eigen_dit_correction_mean vs run
χ² / ndf 105.6 / 86
p0 −784.2 ± 981
pull
Entries 87
Mean 256.5
Std Dev 0

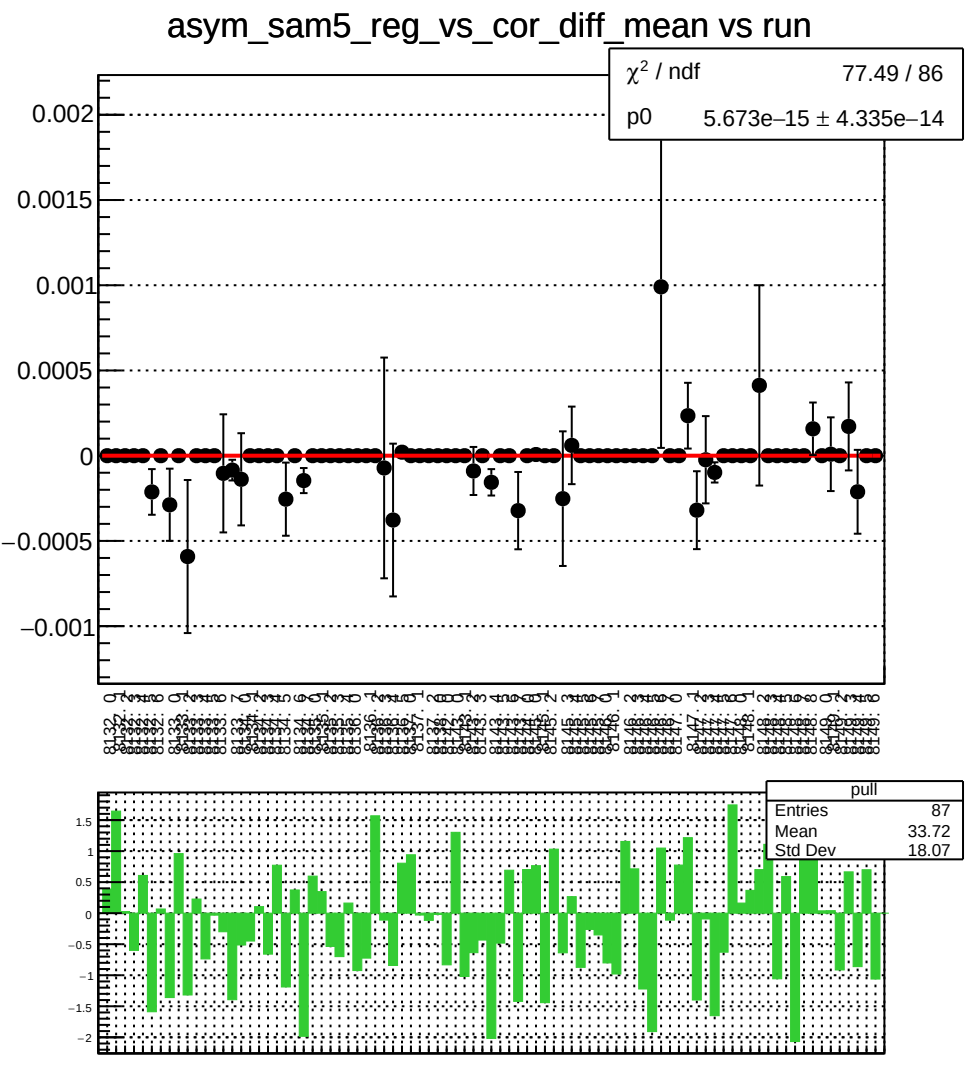

pull1D
Entries 87
Mean 0.02515
Std Dev 1.101

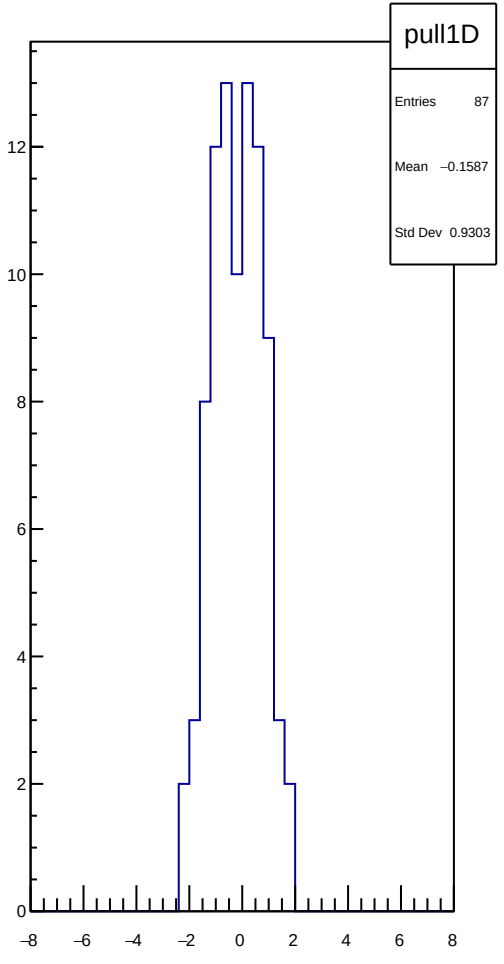

asym_sam5_eigen_dit_correction_rms vs run
χ² / ndf 2.578e+04 / 86
p0 902.6 ± 0.6937
1200
1100
1000
900
800

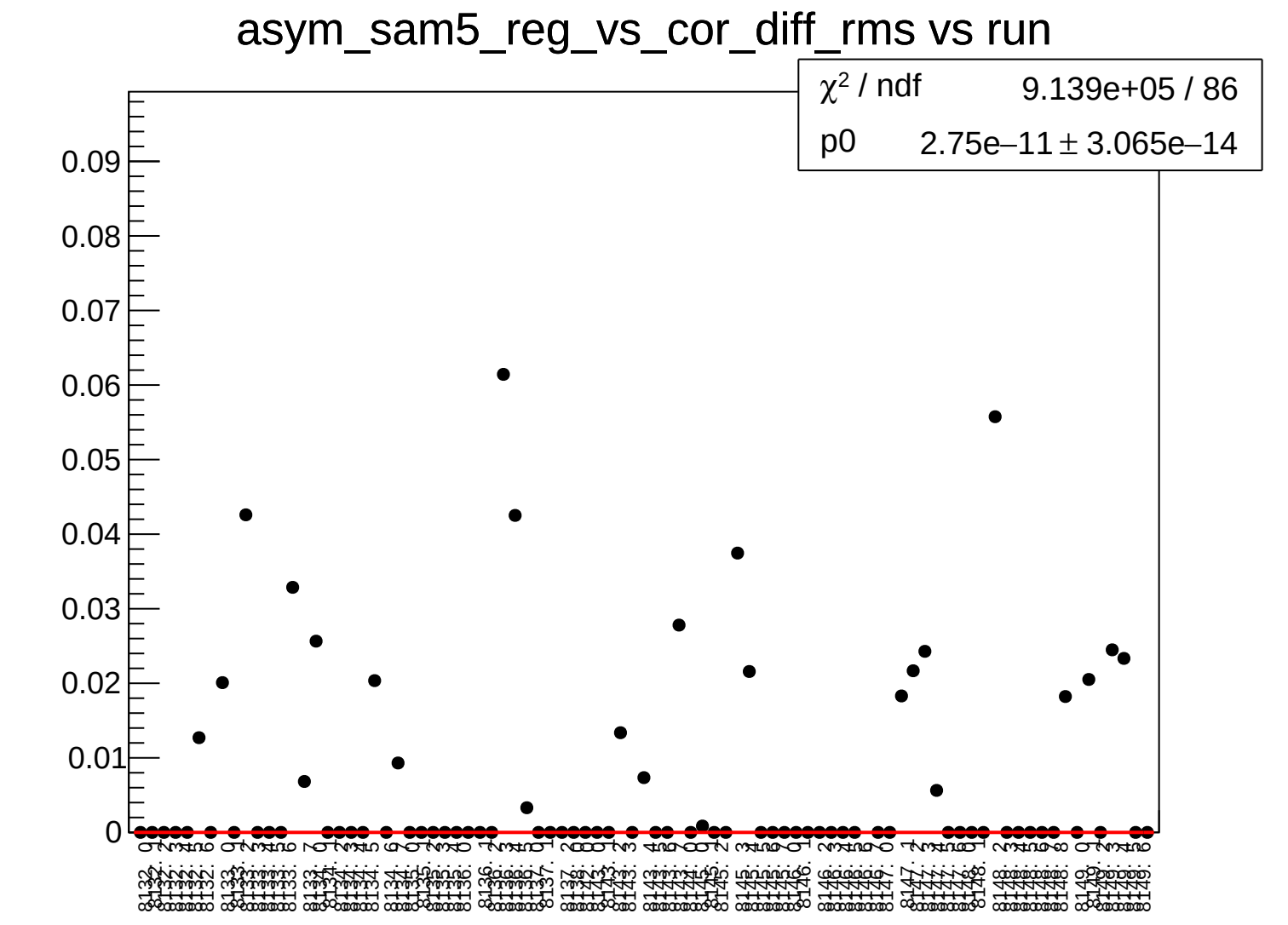

asym_sam5_mean vs run
χ² / ndf 103.8 / 86
p0 534.3 ± 957.1
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 335.9
Std Dev 0
3
2
1
0
−1
−2
−3
−4

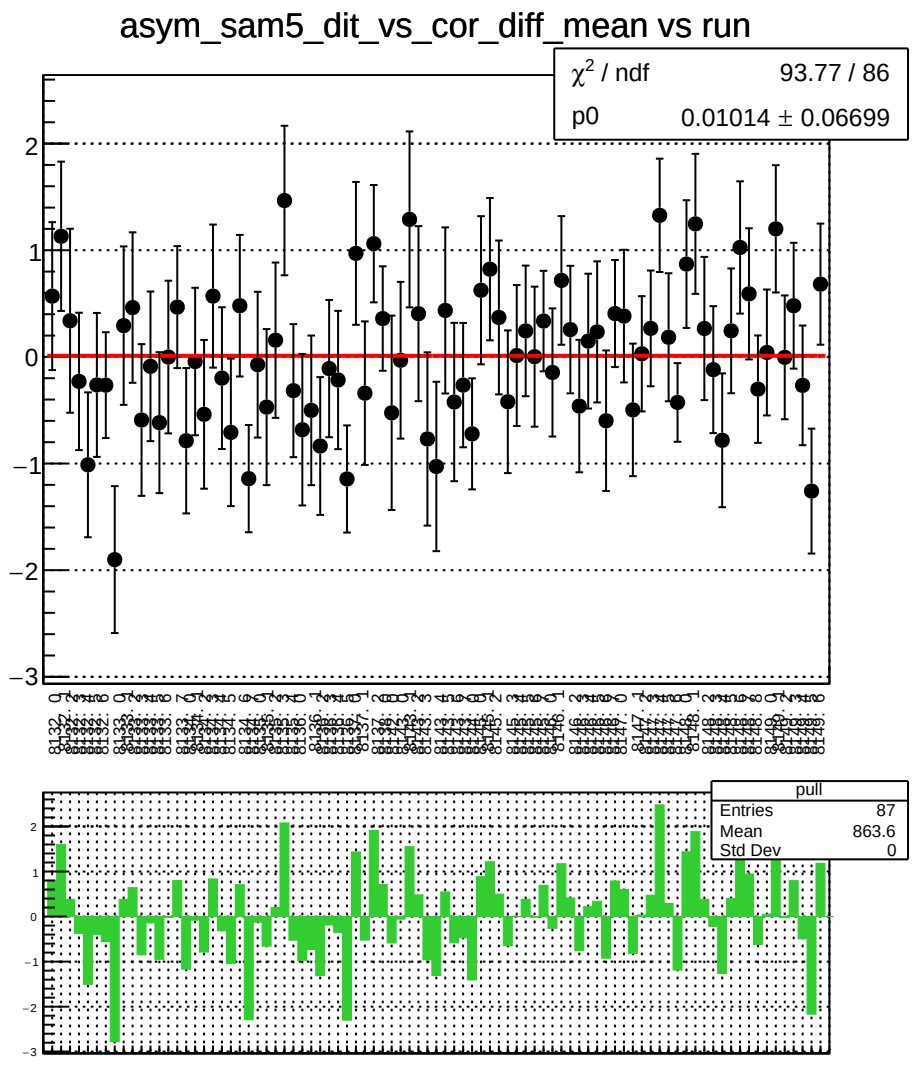

pull1D
Entries 87
Mean −0.01759
Std Dev 1.092
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

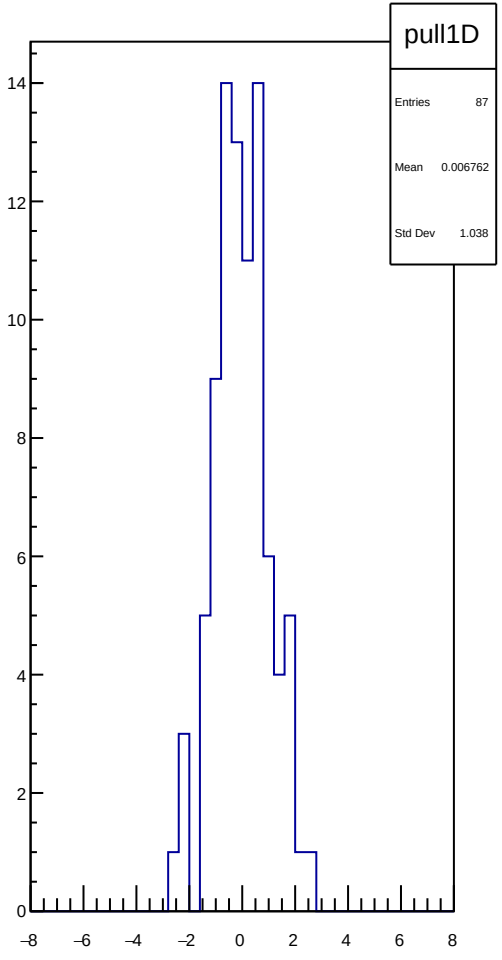

asym_sam5_rms vs run
χ² / ndf 2.504e+04 / 86
p0 880.8 ± 0.6768
1200
1100
1000
900
800
700


asym_sam5_reg_vs_cor_diff_mean vs run
χ² / ndf 77.49 / 86
p0 5.673e−15 ± 4.335e−14
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 87
Mean 33.72
Std Dev 18.07
1.5
1
0.5
0
−0.5
−1
−1.5
−2

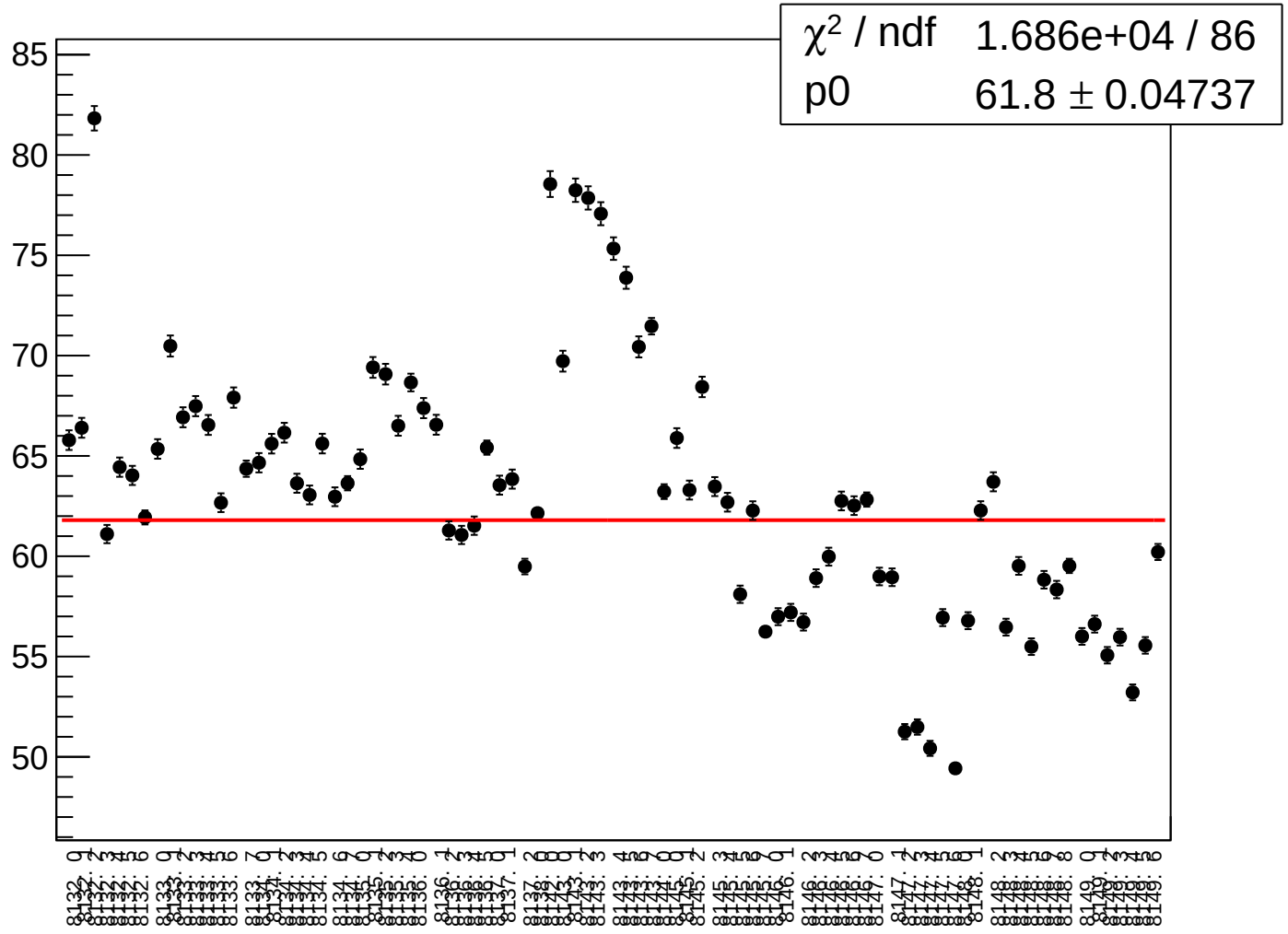

pull1D
Entries 87
Mean −0.1587
Std Dev 0.9303
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

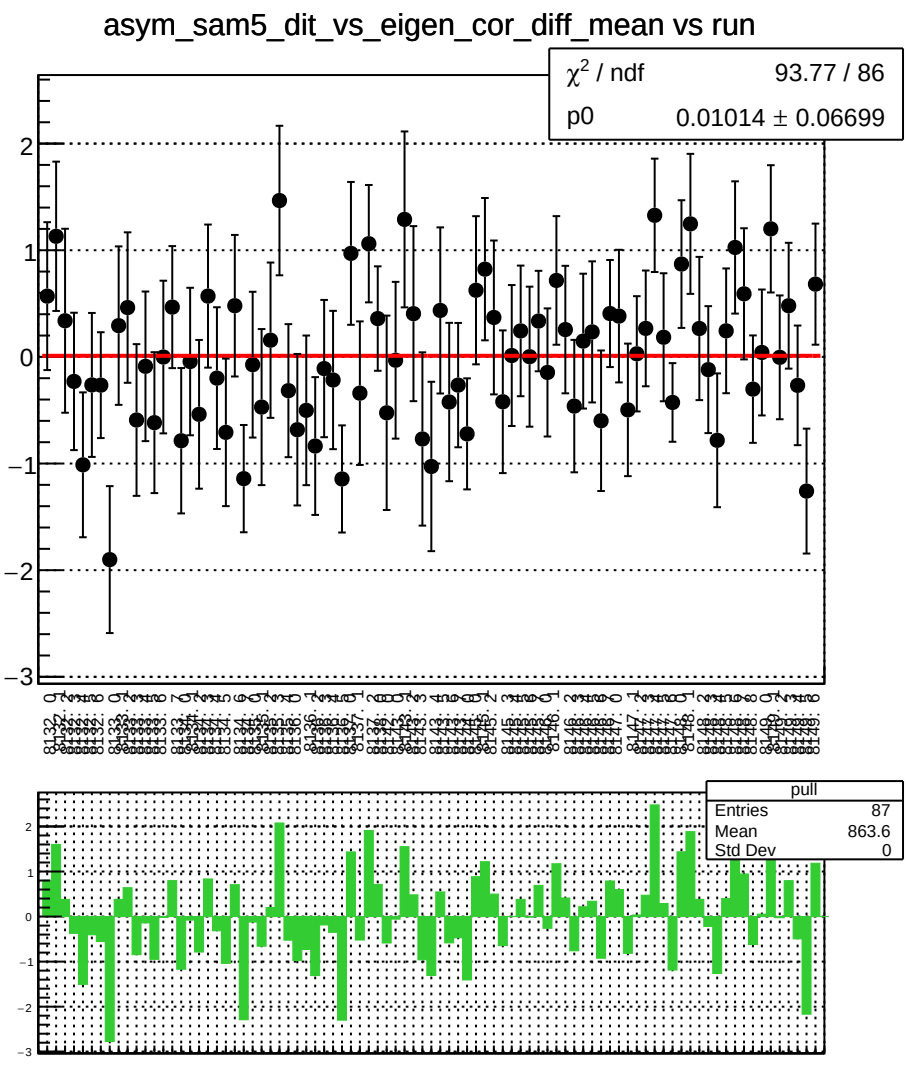

asym_sam5_reg_vs_cor_diff_rms vs run
χ² / ndf 9.139e+05 / 86
p0 2.75e−11 ± 3.065e−14
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

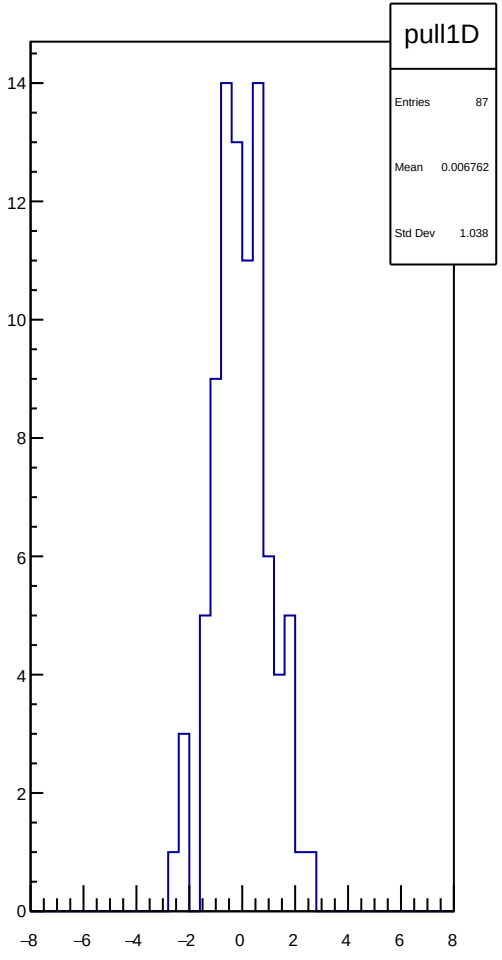

asym_sam5_dit_vs_cor_diff_mean vs run
χ² / ndf 93.77 / 86
p0 0.01014 ± 0.06699
pull
Entries 87
Mean 863.6
Std Dev 0

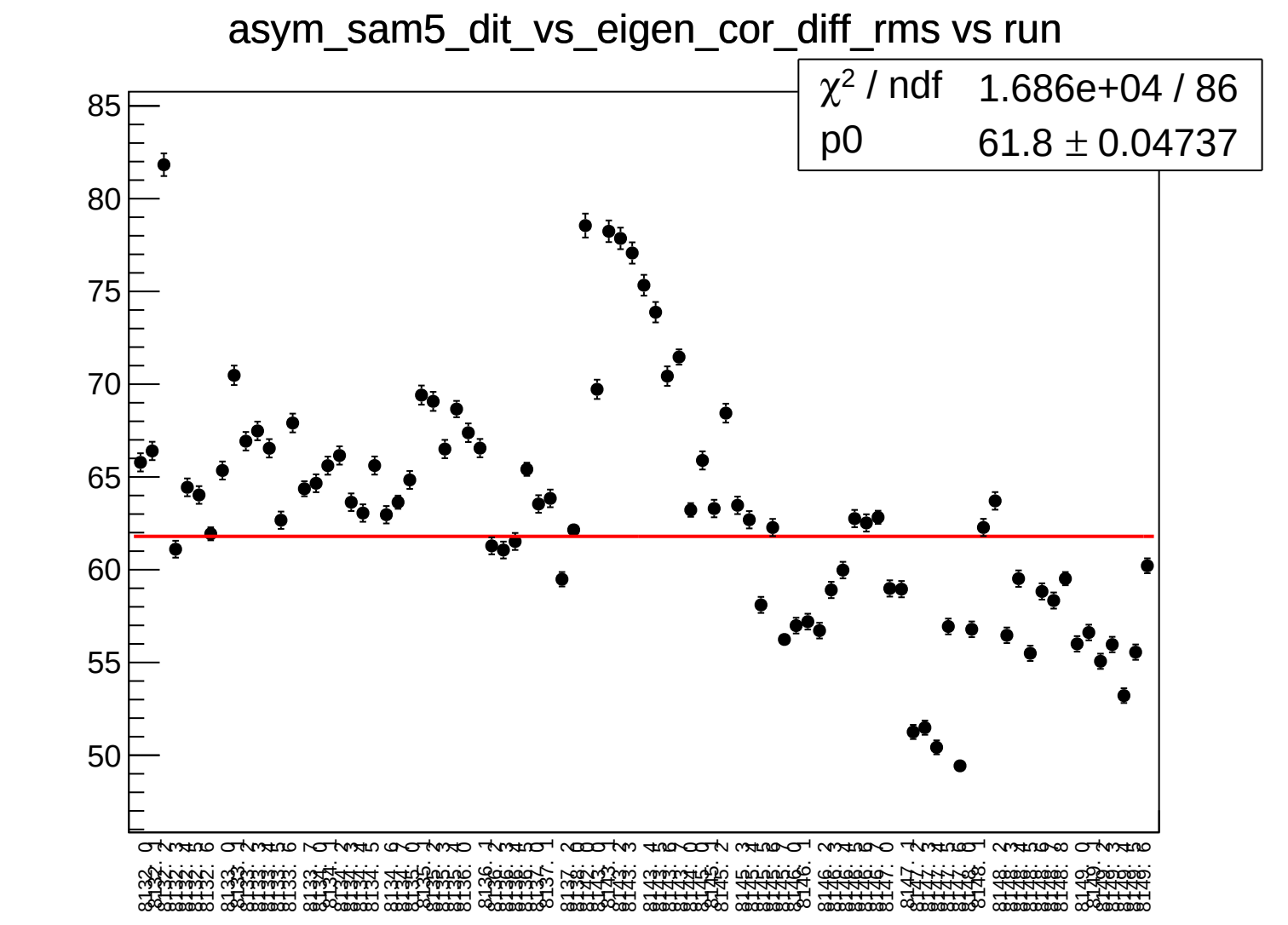

pull1D
Entries 87
Mean 0.006762
Std Dev 1.038

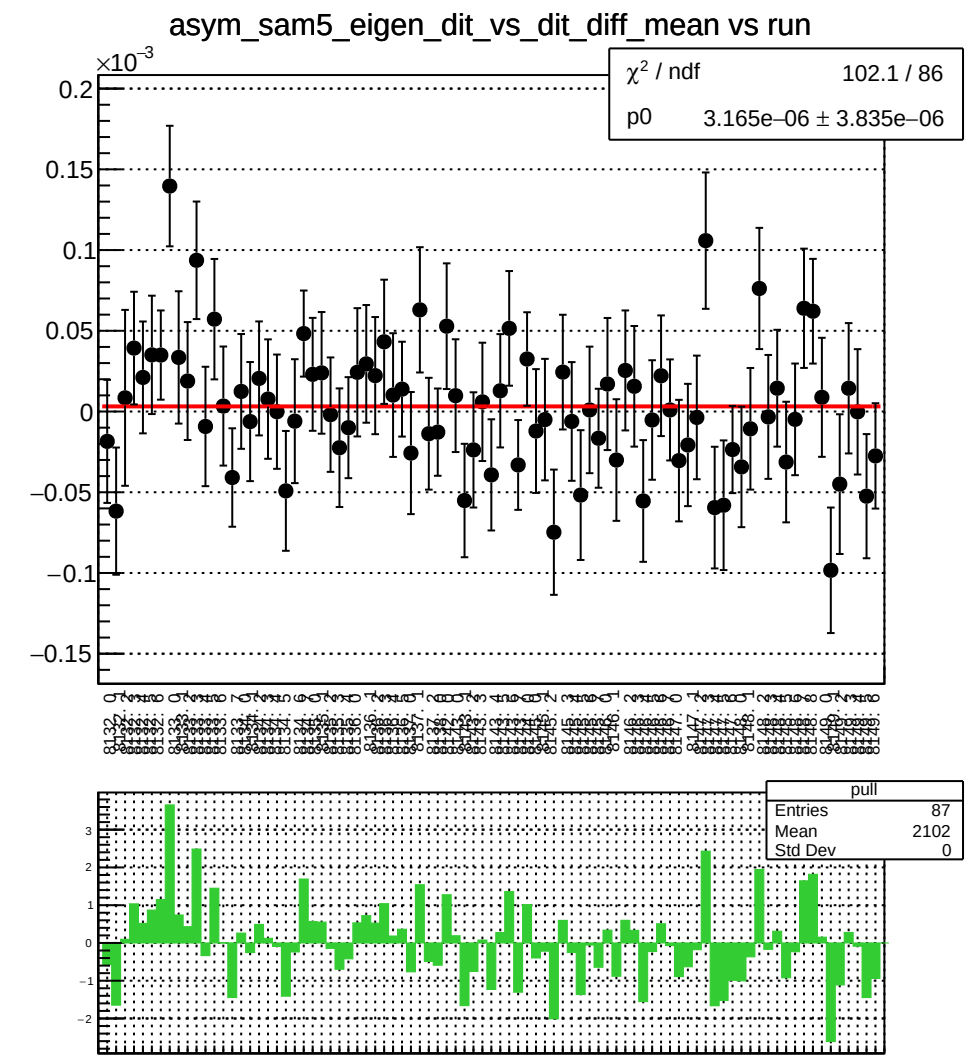
asym_sam5_dit_vs_cor_diff_rms vs run

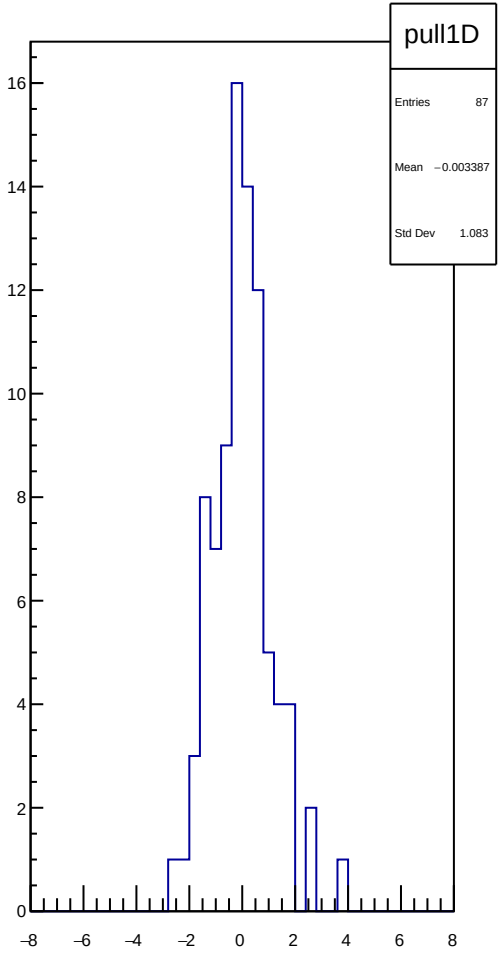


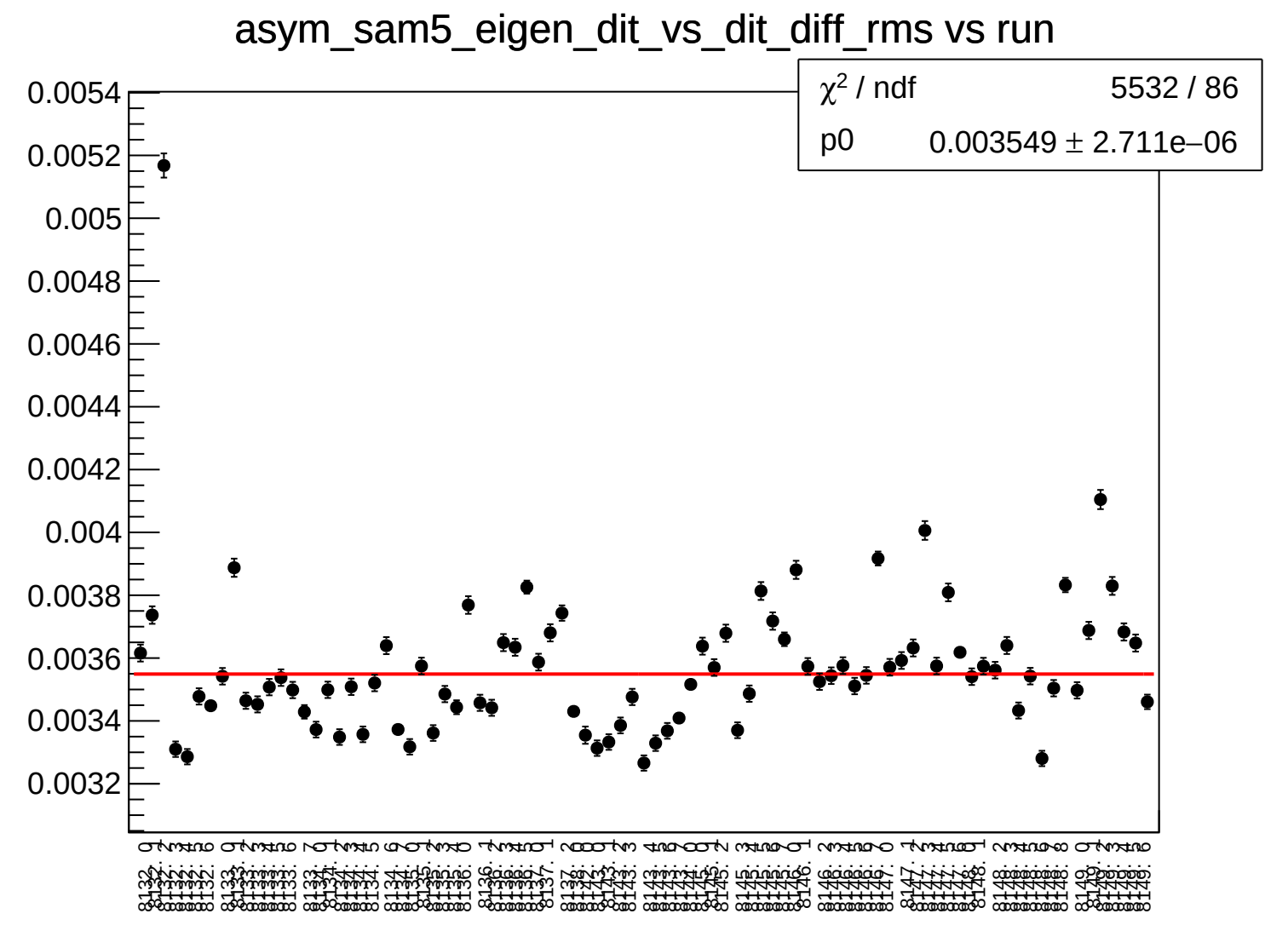

asym_sam5_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.77 / 86
p0 0.01014 ± 0.06699
pull
Entries 87
Mean 863.6
Std Dev 0

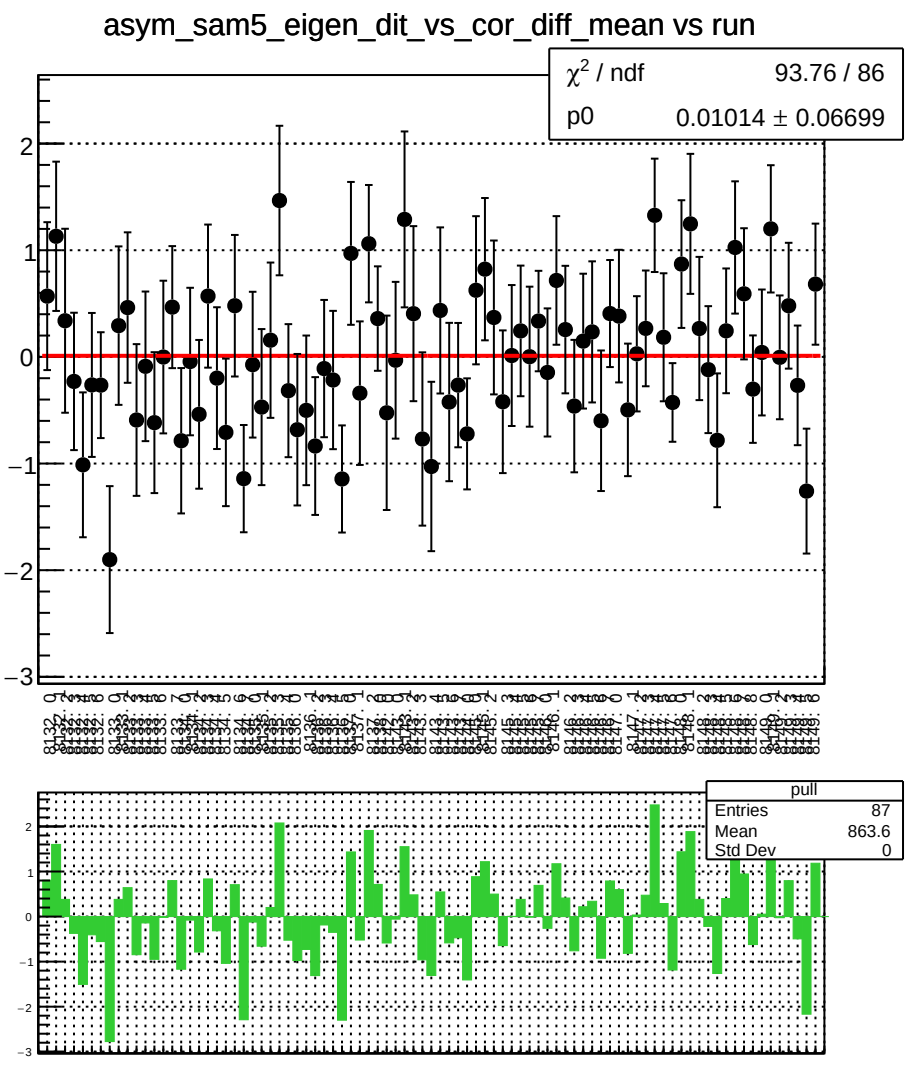

pull1D
Entries 87
Mean 0.006762
Std Dev 1.038

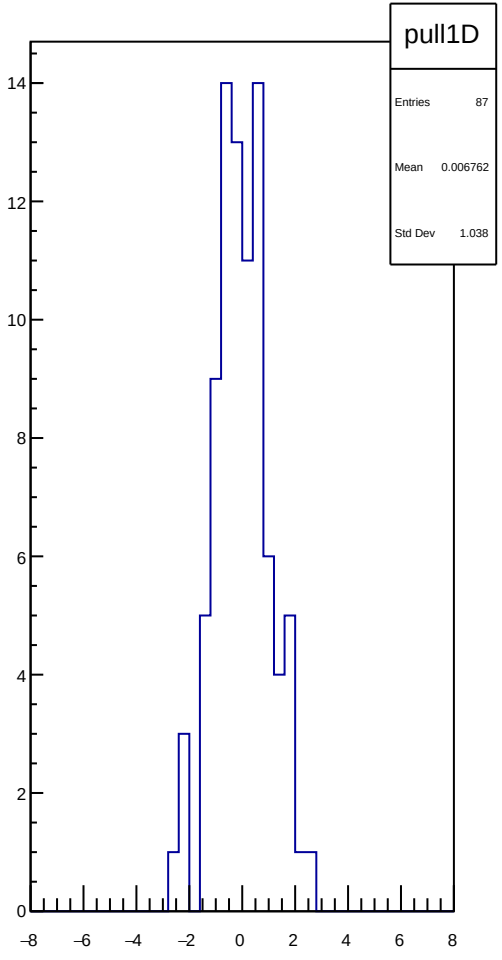

asym_sam5_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.686e+04 / 86
p0 61.8 ± 0.04737
85
80
75
70
65
60
55
50

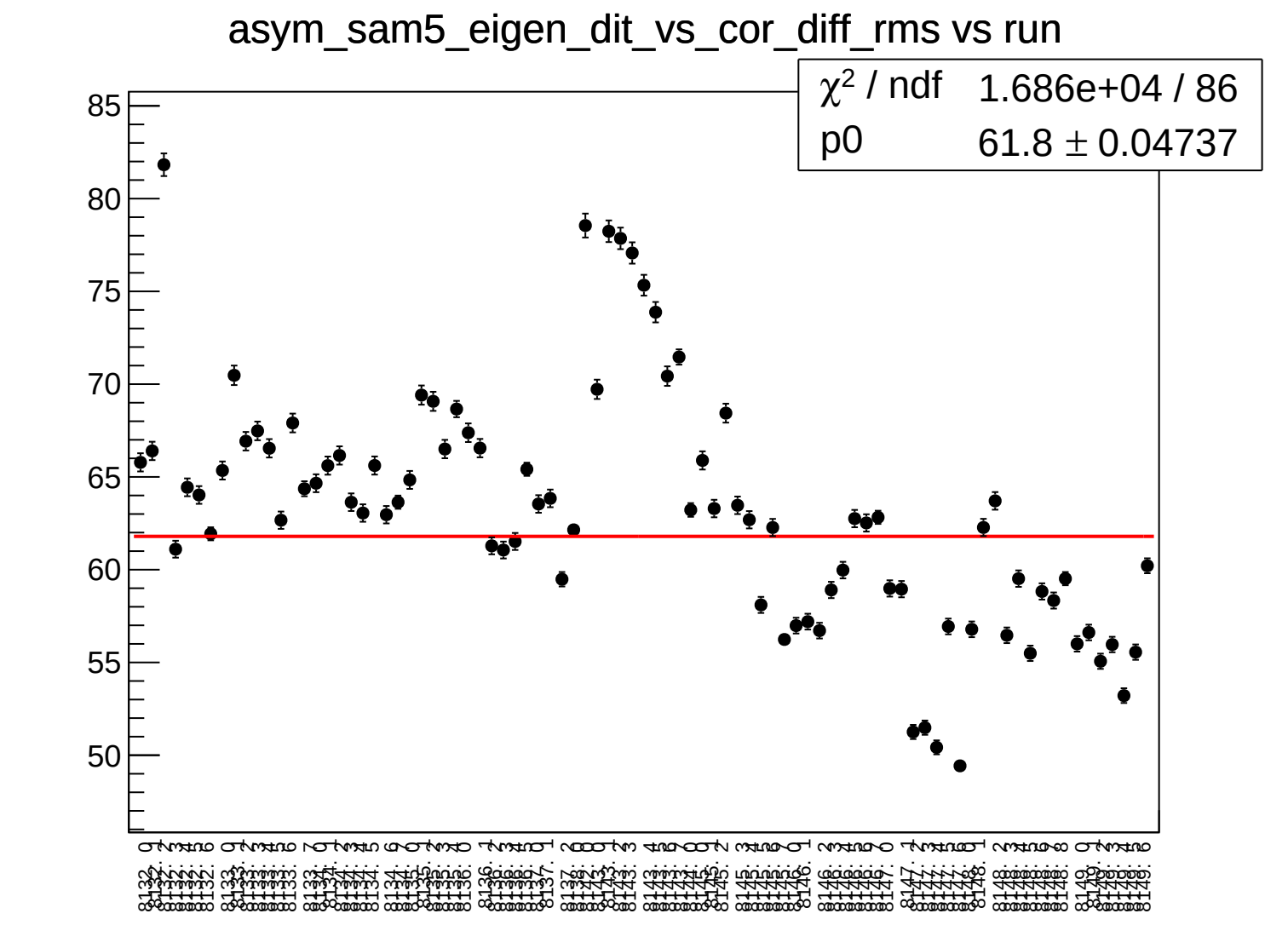

asym_sam5_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 102.1 / 86
p0 3.165e−06 ± 3.835e−06
pull
Entries 87
Mean 2102
Std Dev 0

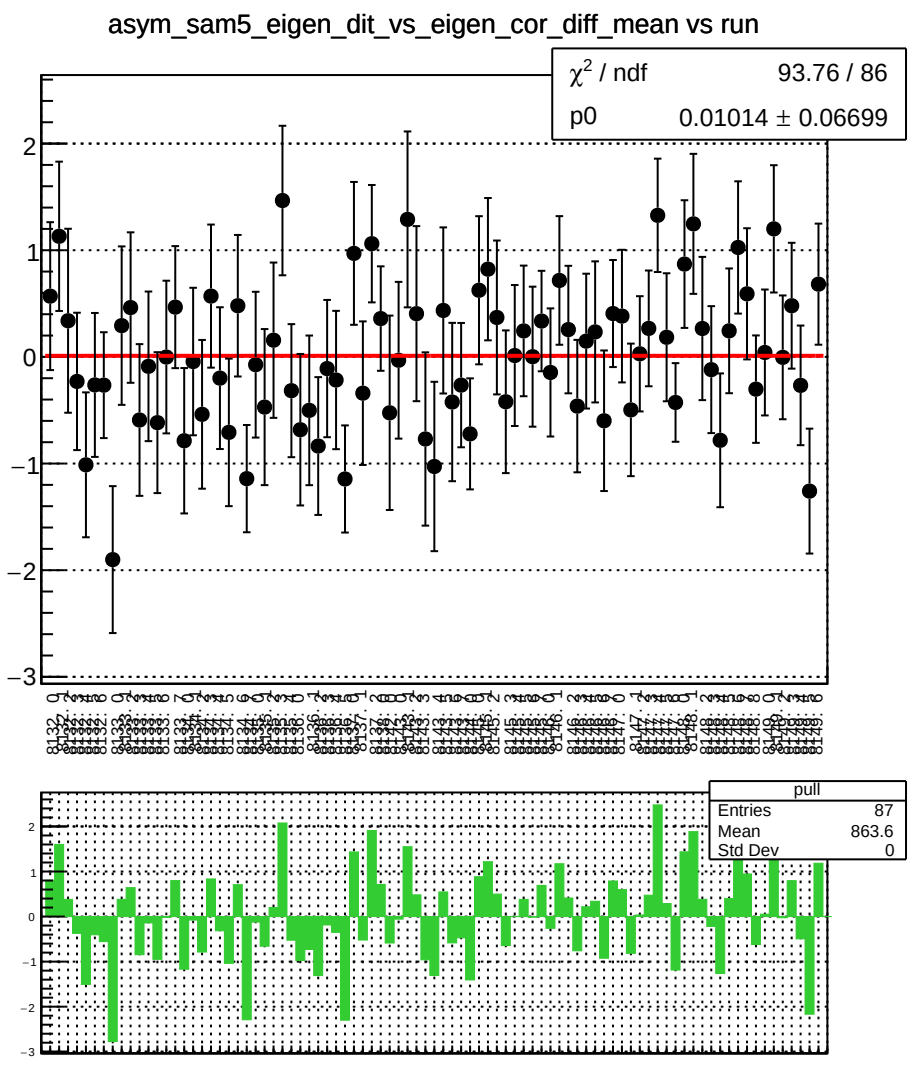

pull1D
Entries 87
Mean −0.003387
Std Dev 1.083

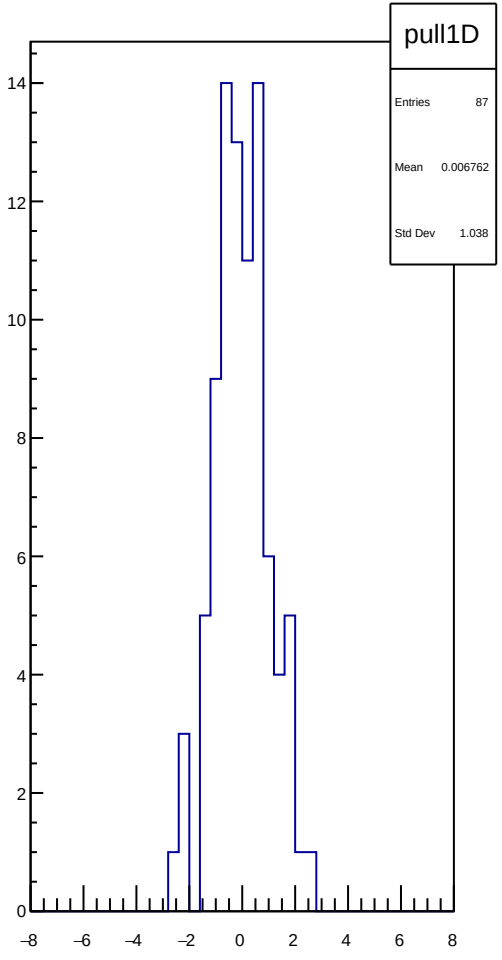

asym_sam5_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5532 / 86
p0 0.003549 ± 2.711e−06
0.0054
0.0052
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032

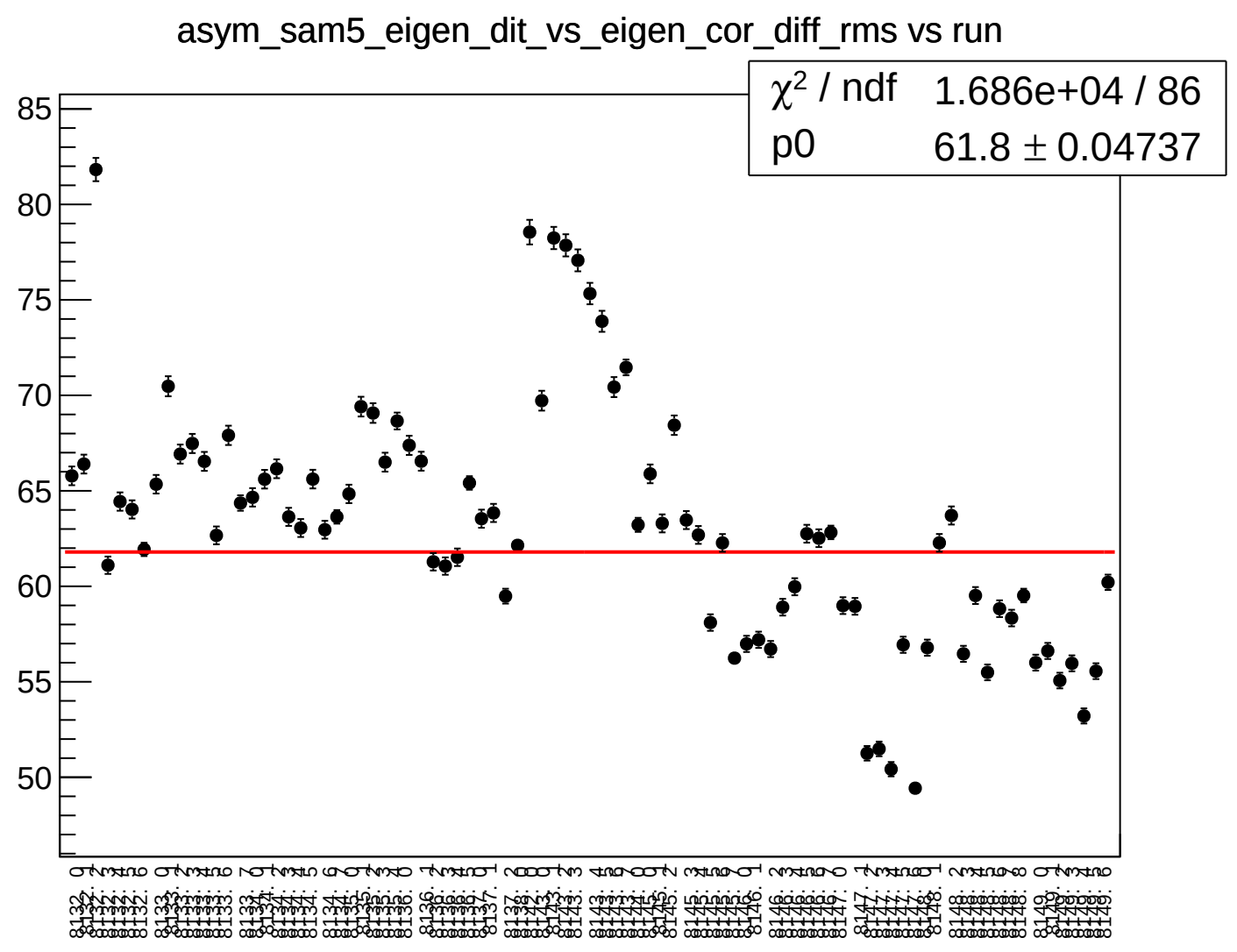

asym_sam5_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.76 / 86
p0 0.01014 ± 0.06699
pull
Entries 87
Mean 863.6
Std Dev 0

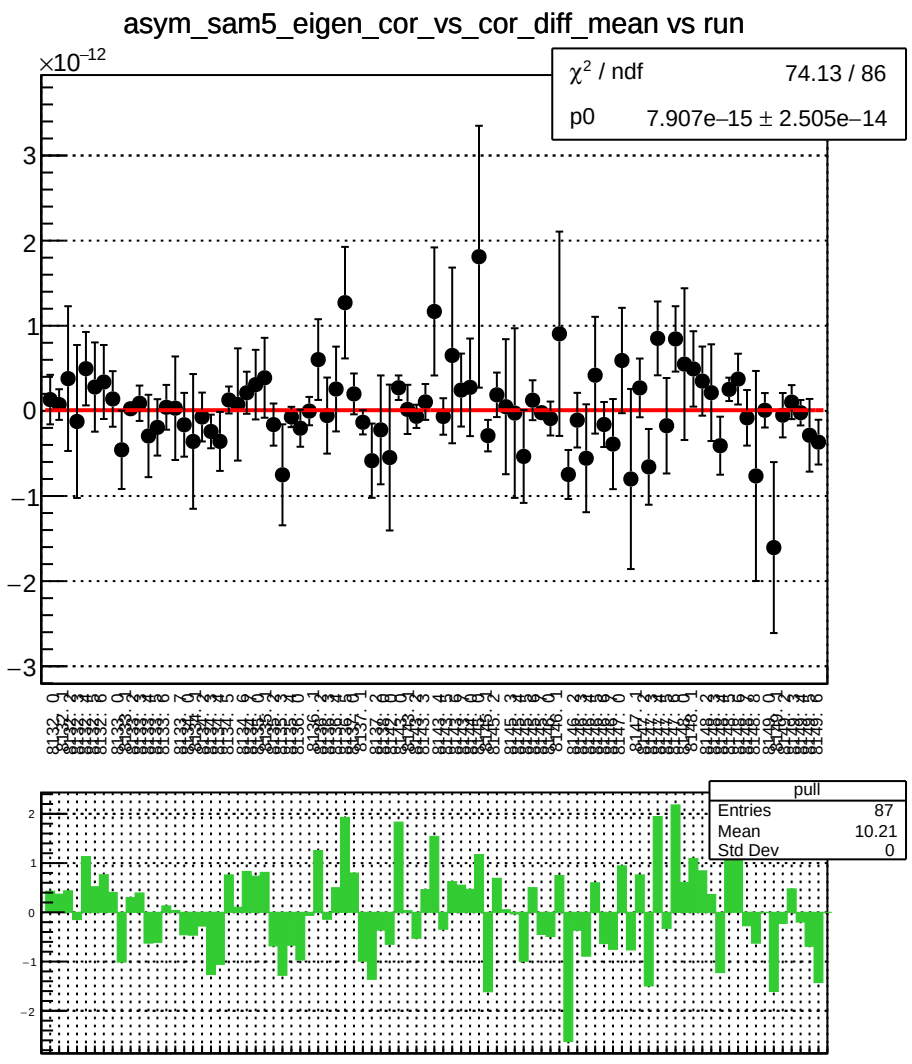

pull1D
Entries 87
Mean 0.006762
Std Dev 1.038

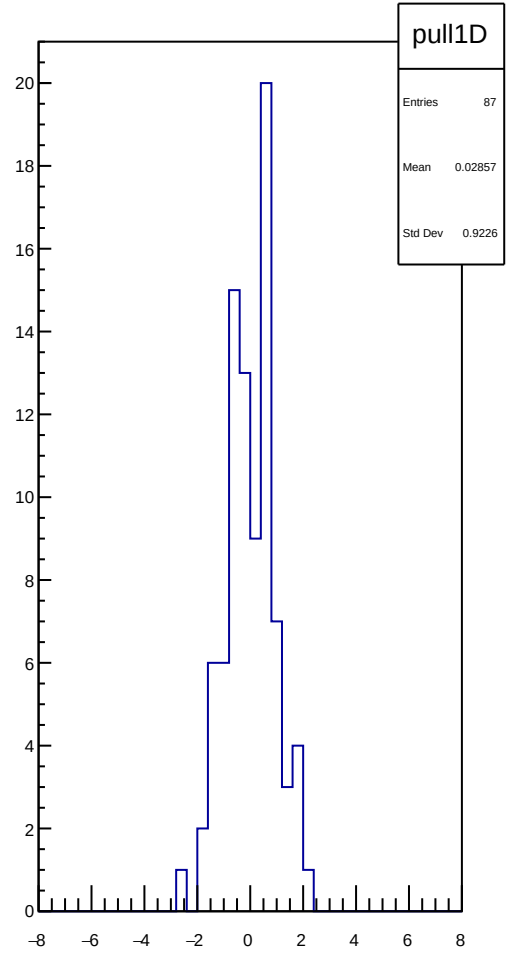

asym_sam5_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.686e+04 / 86
p0 61.8 ± 0.04737
85
80
75
70
65
60
55
50

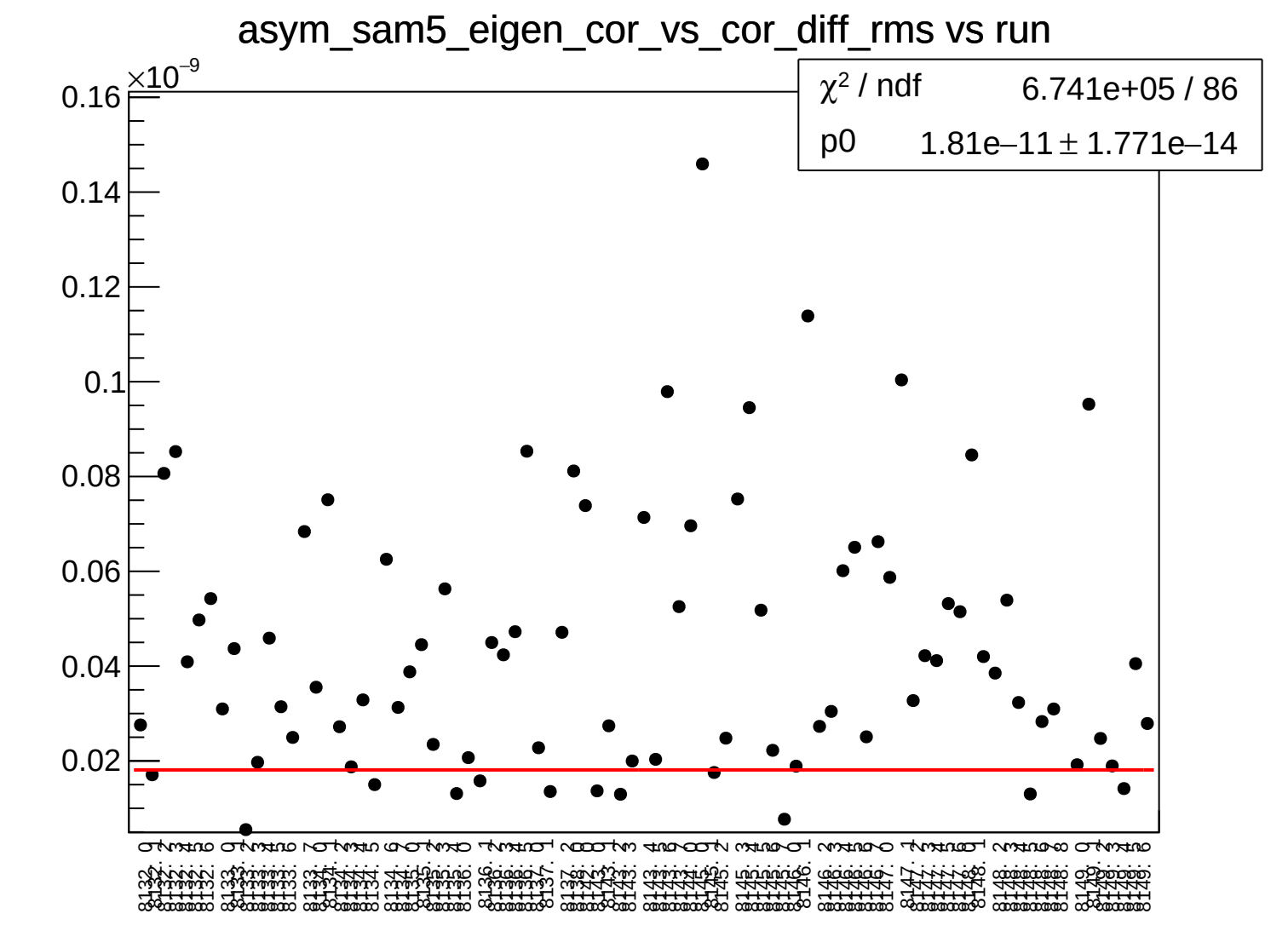

asym_sam5_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.76 / 86
p0 0.01014 ± 0.06699
pull
Entries 87
Mean 863.6
Std Dev 0

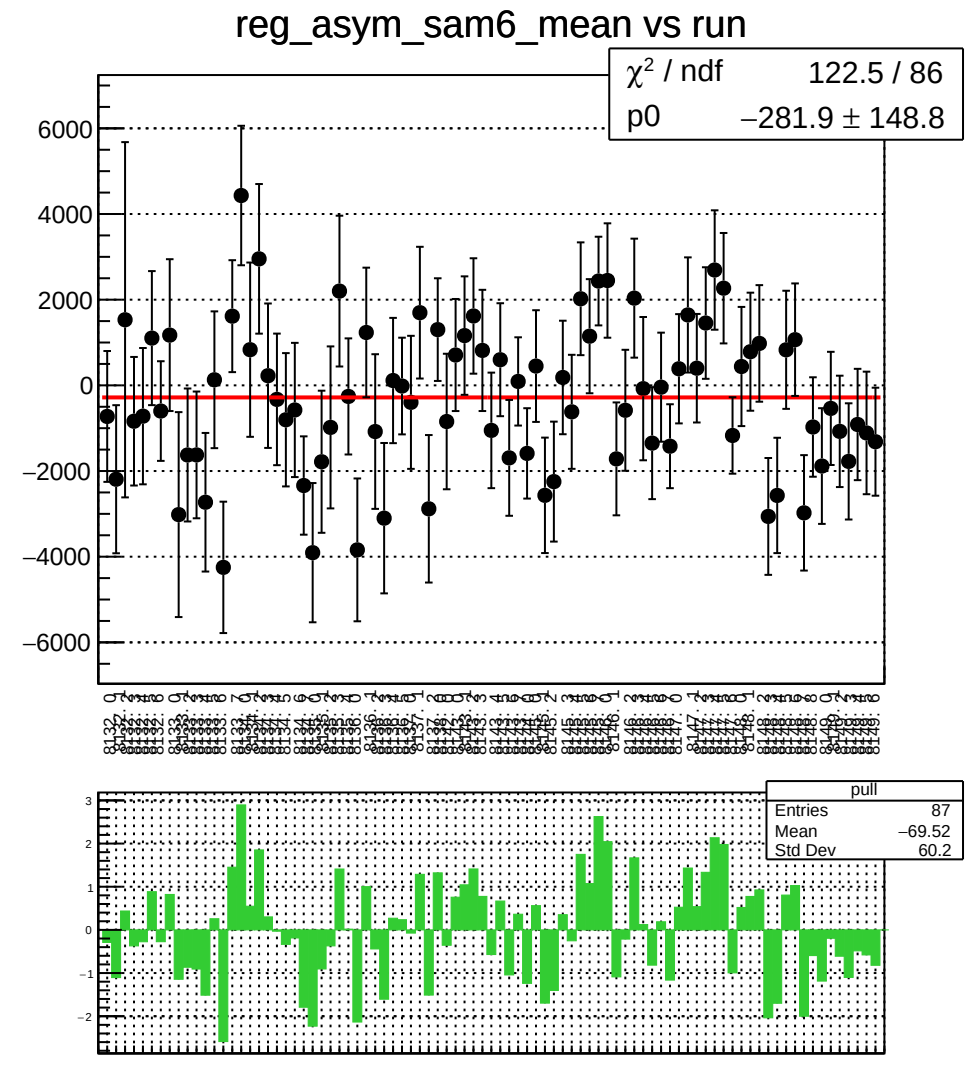

pull1D
Entries 87
Mean 0.006762
Std Dev 1.038

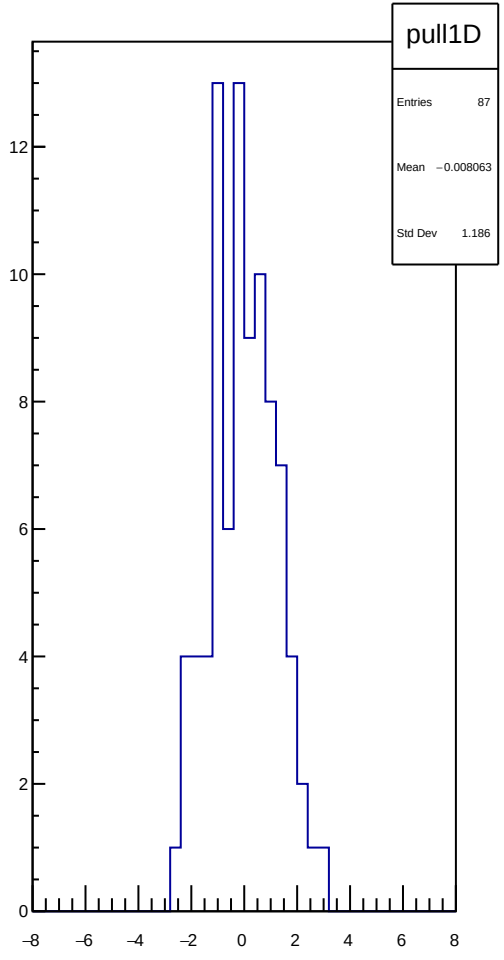

asym_sam5_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.686e+04 / 86
p0 61.8 ± 0.04737
85
80
75
70
65
60
55
50

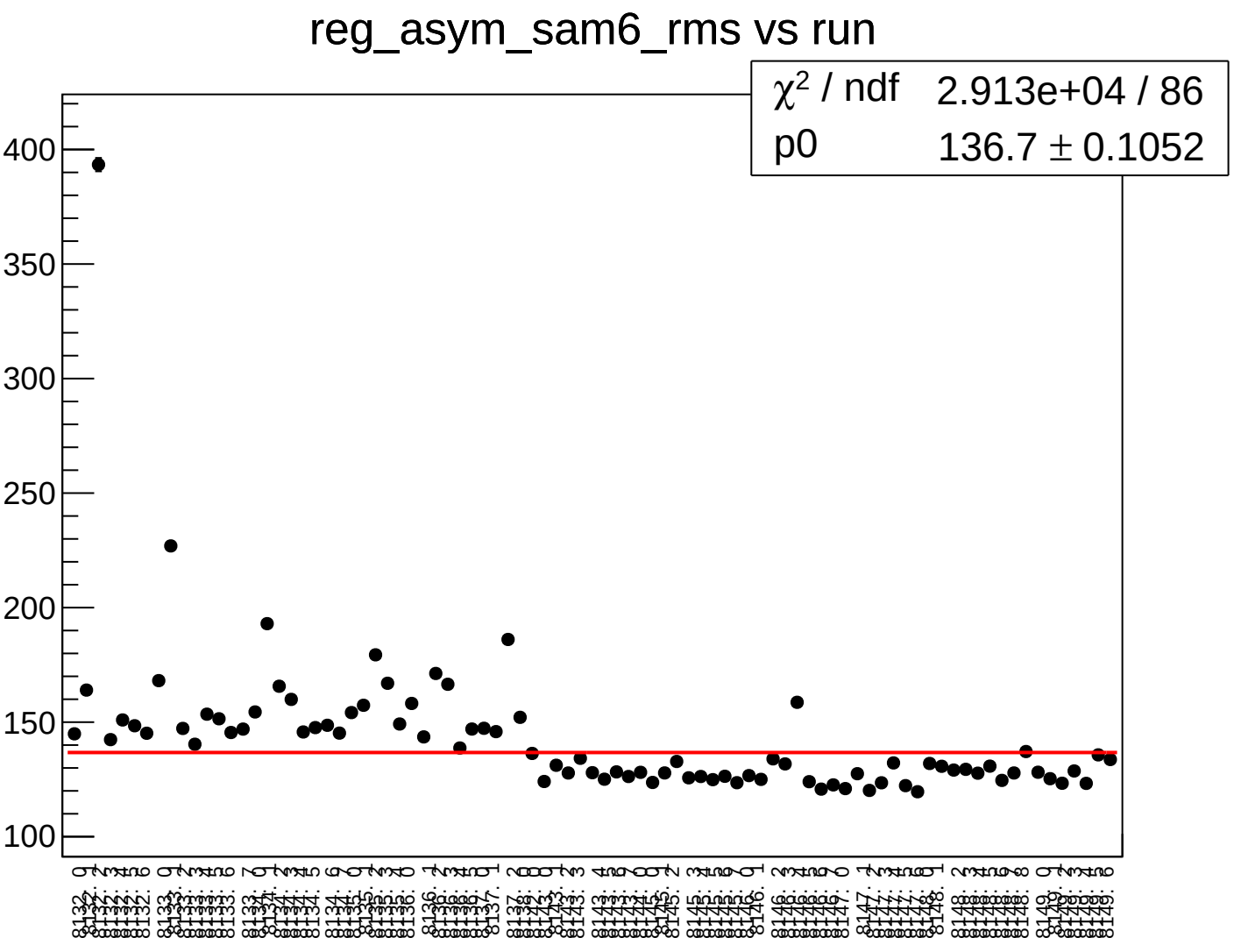

asym_sam5_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.13 / 86
p0 7.907e−15 ± 2.505e−14
pull
Entries 87
Mean 10.21
Std Dev 0

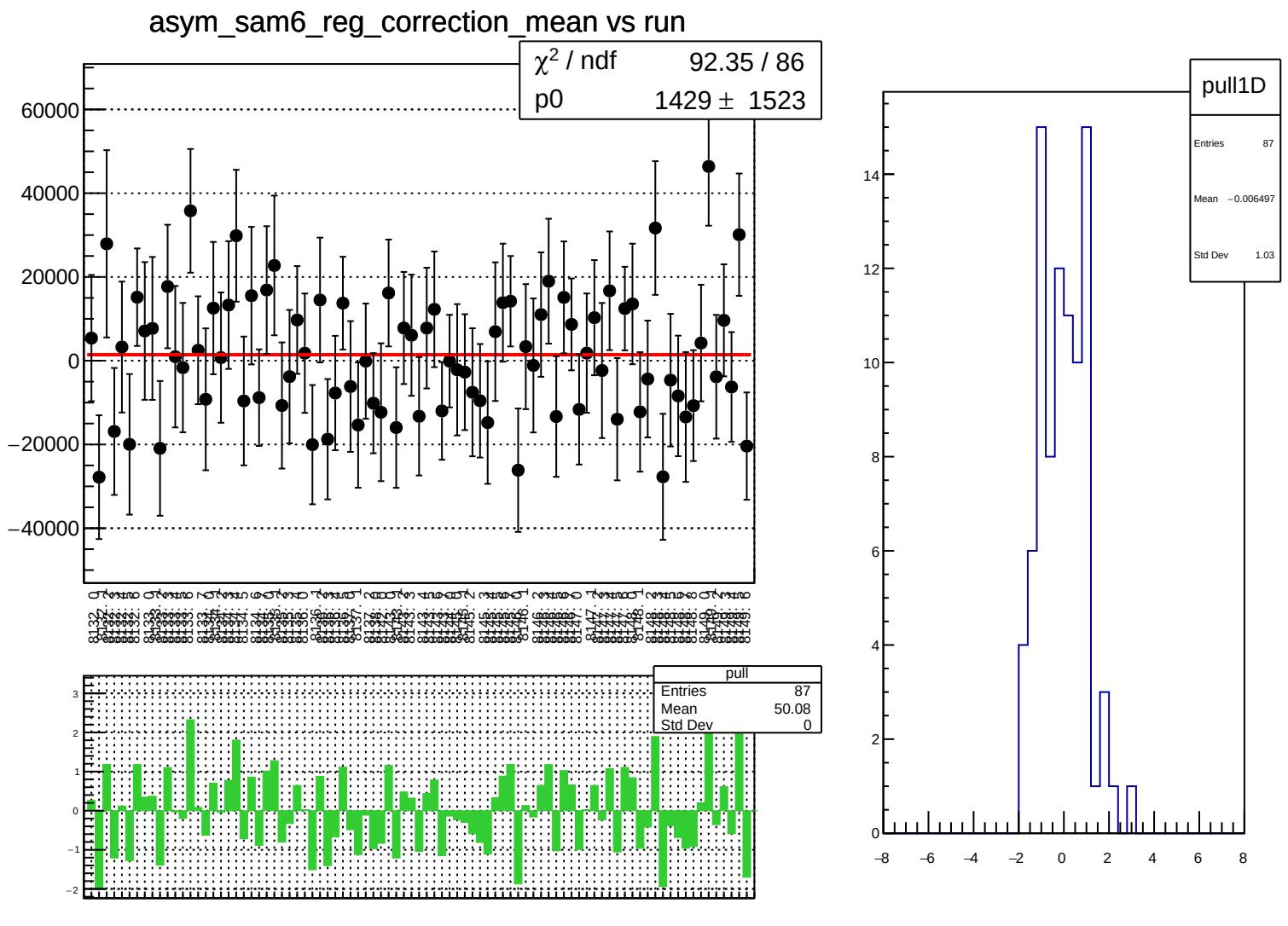

pull1D
Entries 87
Mean 0.02857
Std Dev 0.9226


asym_sam5_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
χ² / ndf 6.741e+05 / 86
p0 1.81e−11 ± 1.771e−14

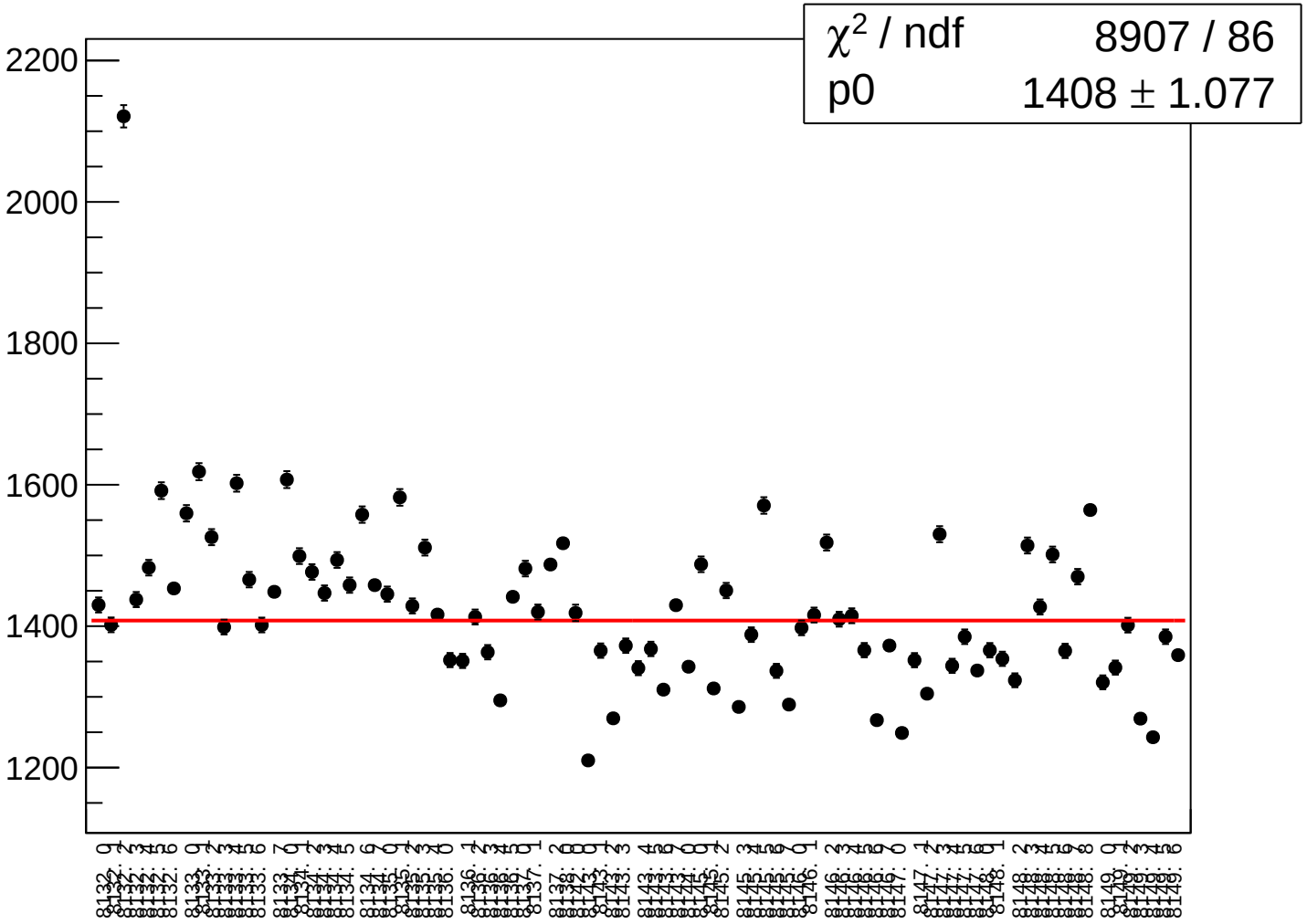

reg_asym_sam6_mean vs run
χ² / ndf 122.5 / 86
p0 −281.9 ± 148.8
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 87
Mean −69.52
Std Dev 60.2
3
2
1
0
−1
−2

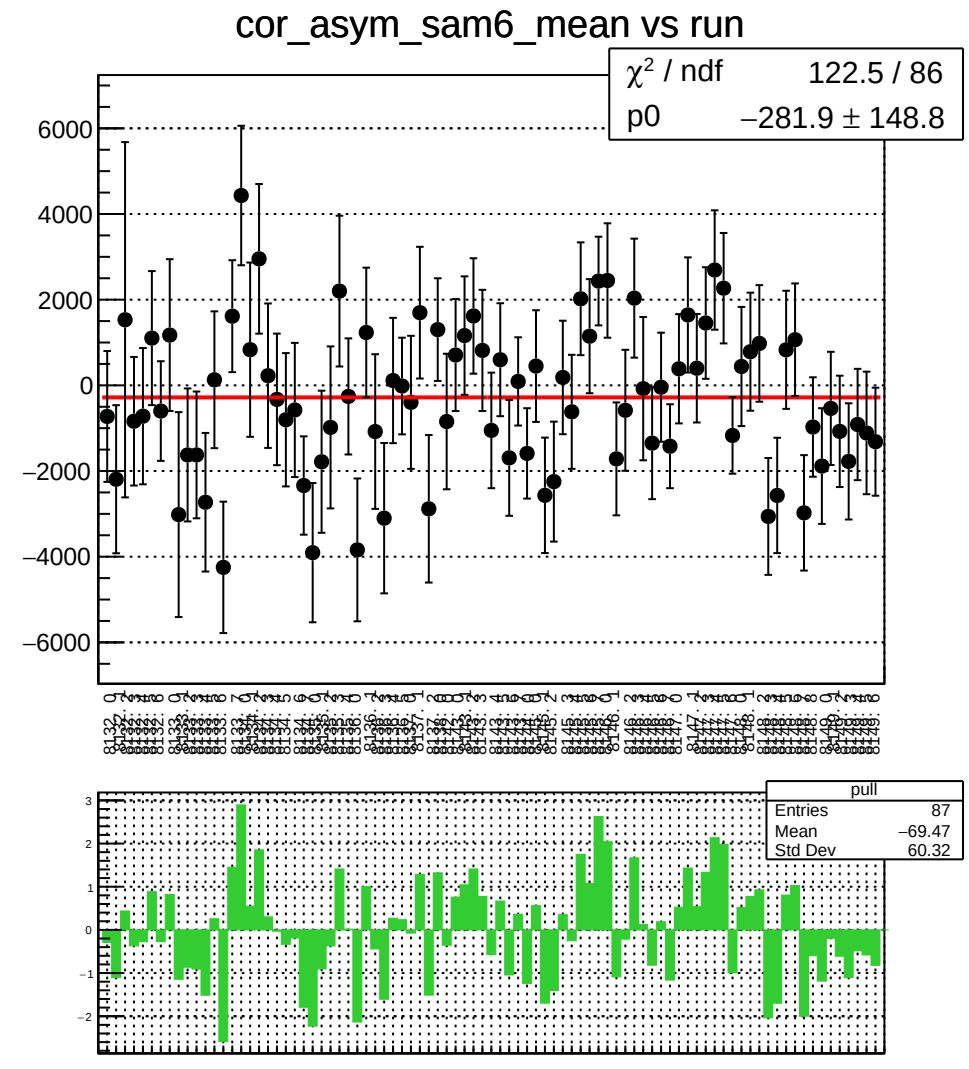

pull1D
Entries 87
Mean −0.008063
Std Dev 1.186
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

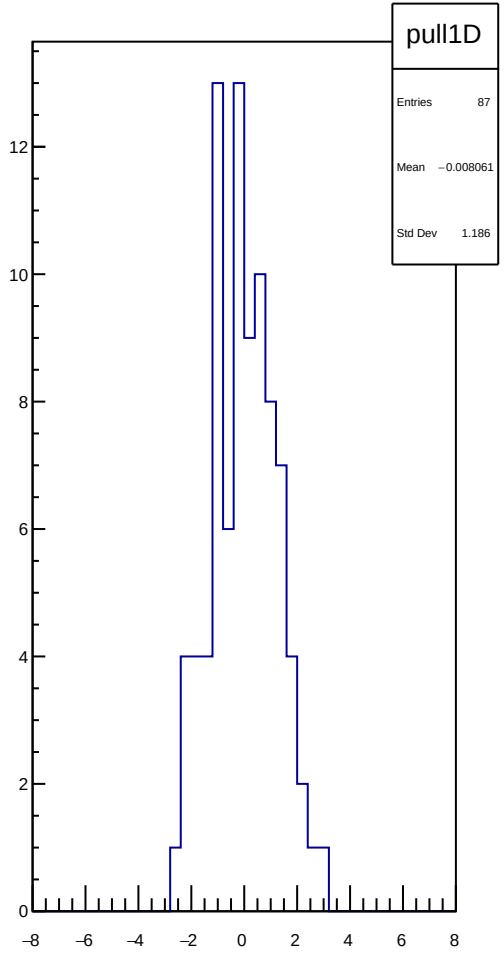

reg_asym_sam6_rms vs run
χ² / ndf 2.913e+04 / 86
p0 136.7 ± 0.1052
400
350
300
250
200
150
100

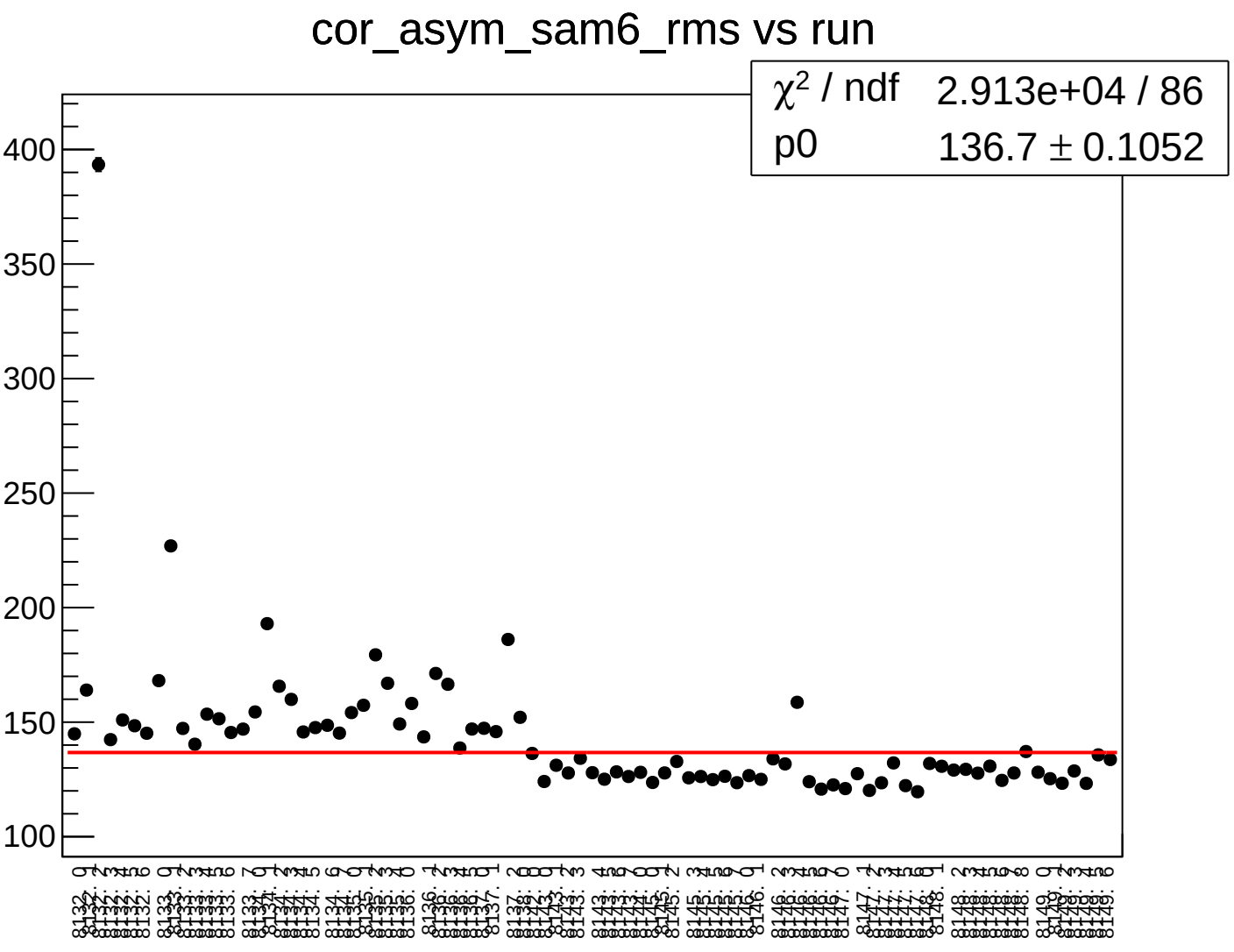

asym_sam6_reg_correction_mean vs run
χ² / ndf 92.35 / 86
p0 1429 ± 1523
60000
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 50.08
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.006497
Std Dev 1.03
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

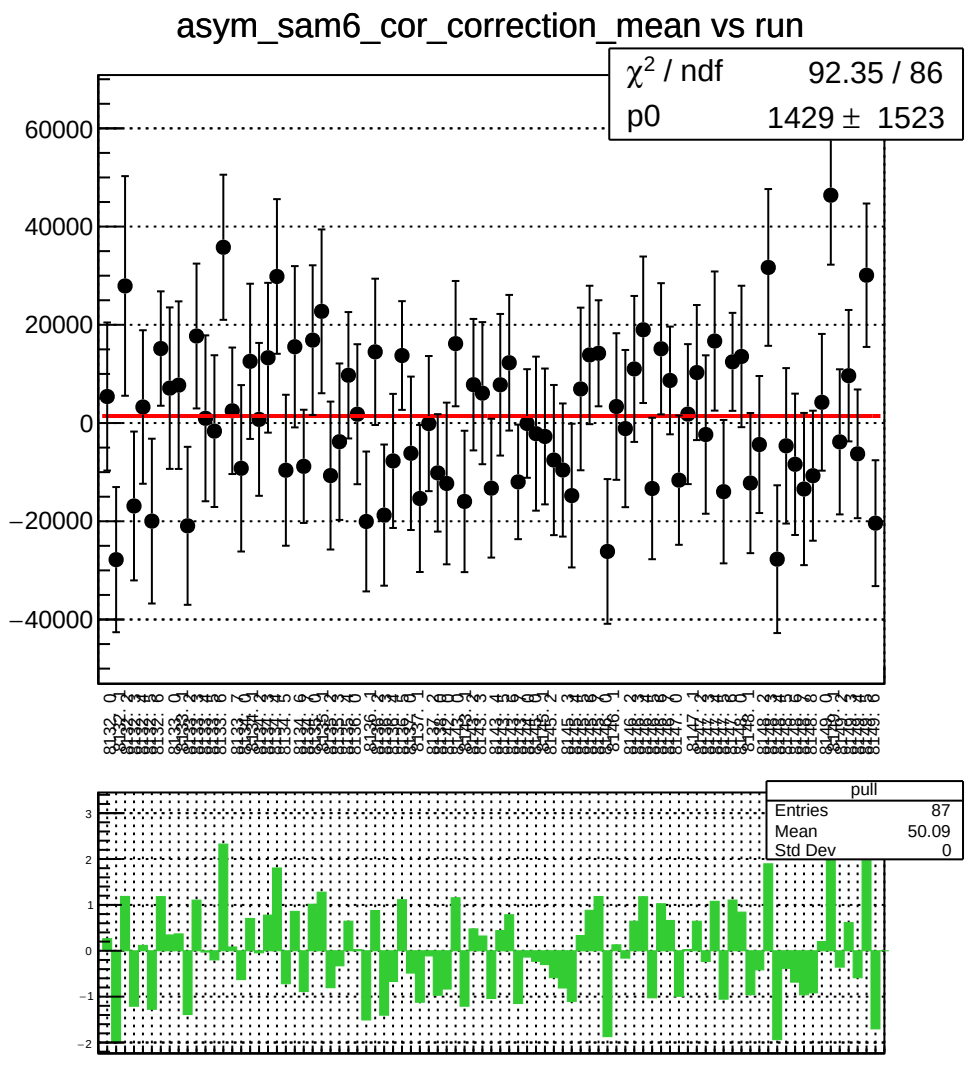
asym_sam6_reg_correction_rms vs run

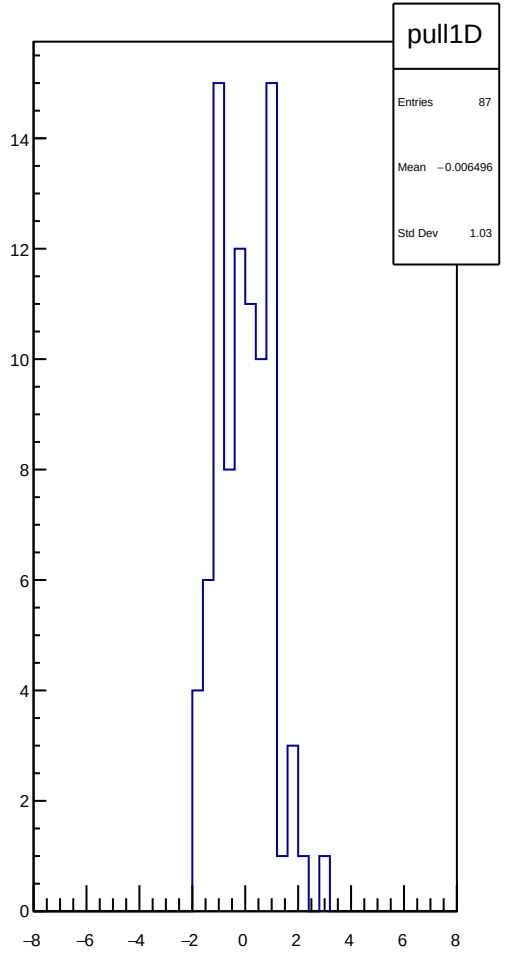



cor_asym_sam6_mean vs run
χ² / ndf 122.5 / 86
p0 −281.9 ± 148.8
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 87
Mean −69.47
Std Dev 60.32
3
2
1
0
−1
−2

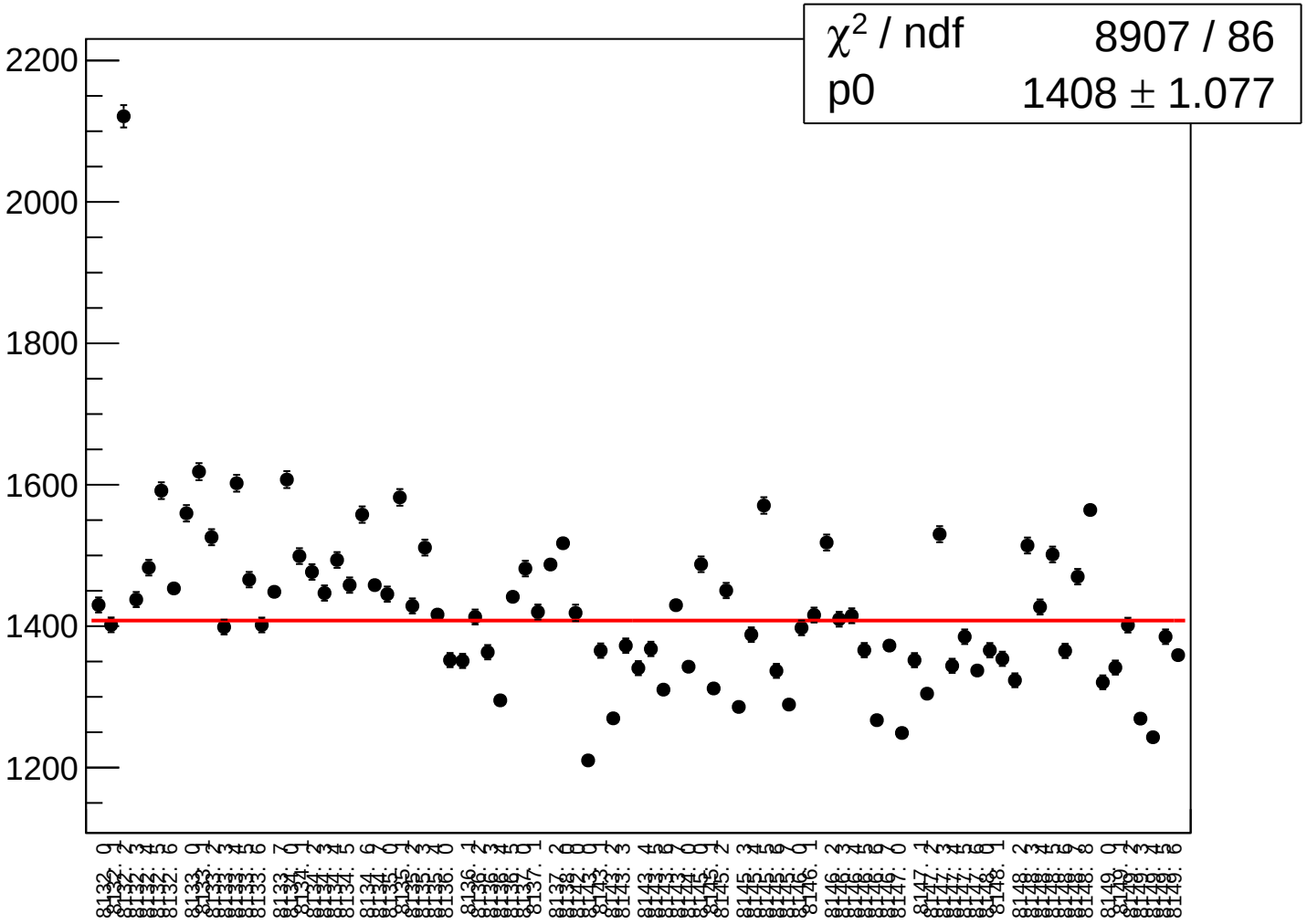

pull1D
Entries 87
Mean −0.008061
Std Dev 1.186
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

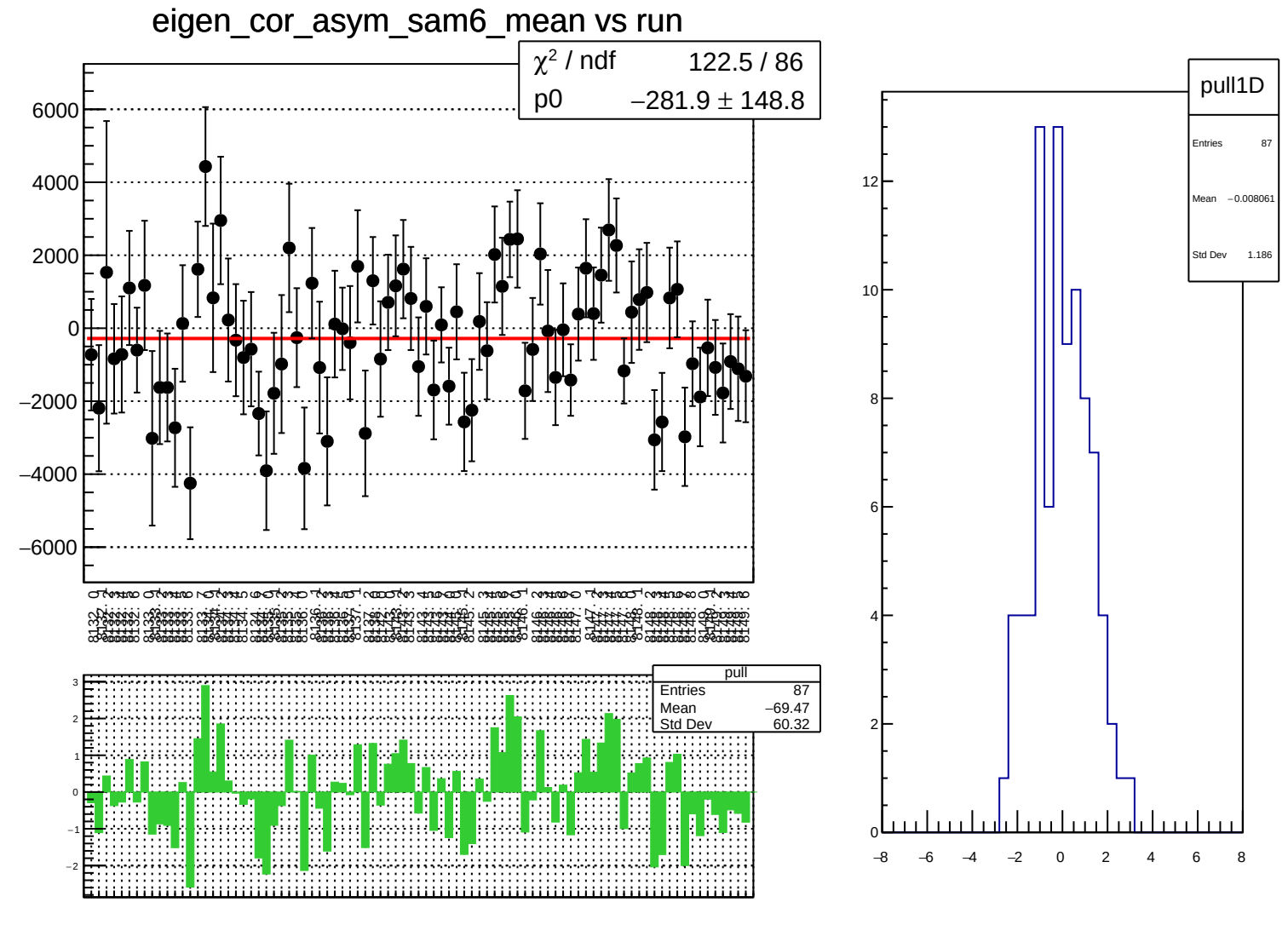

cor_asym_sam6_rms vs run
χ² / ndf 2.913e+04 / 86
p0 136.7 ± 0.1052
400
350
300
250
200
150
100

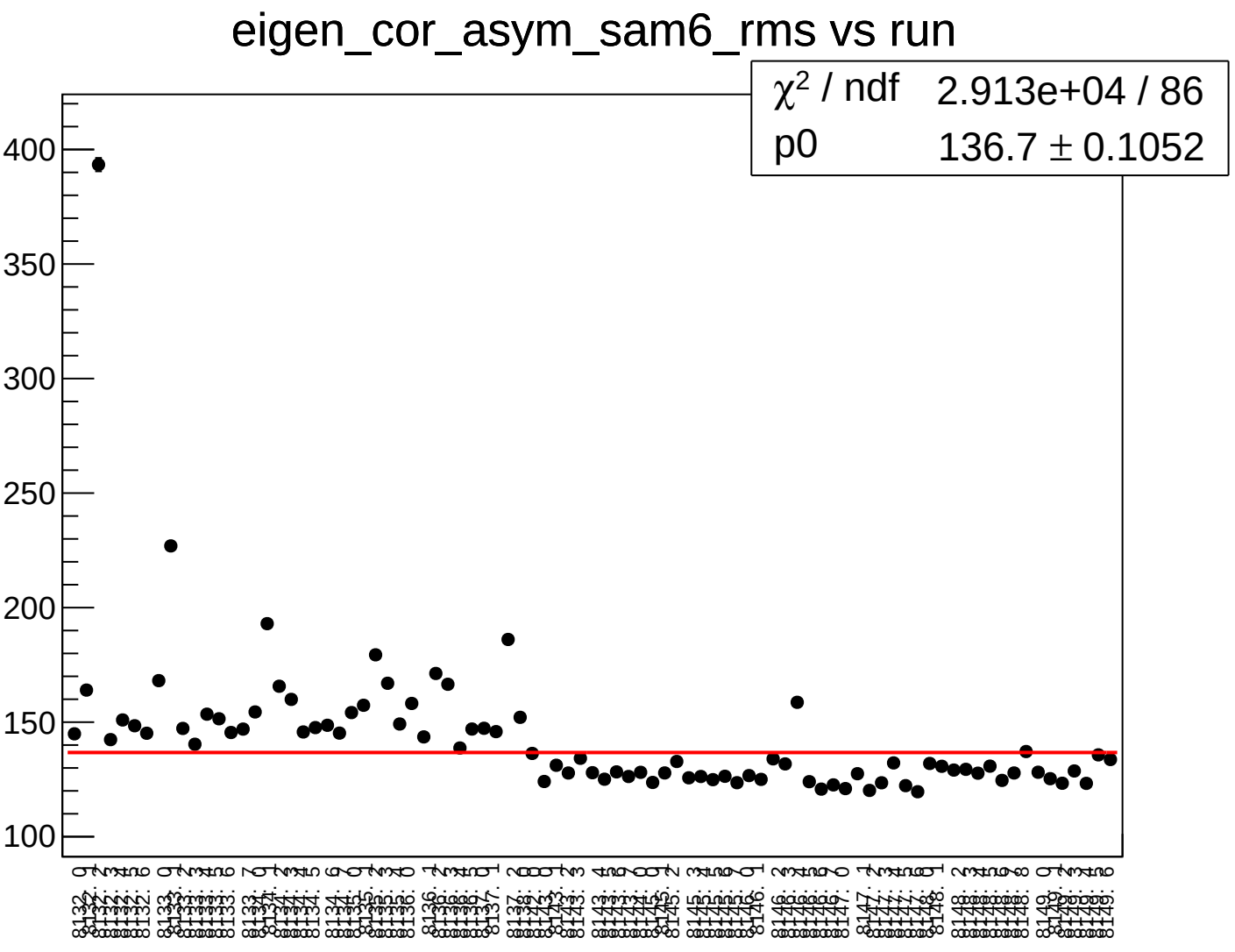

asym_sam6_cor_correction_mean vs run
χ² / ndf 92.35 / 86
p0 1429 ± 1523
60000
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 50.09
Std Dev 0
3
2
1
0
−1
−2

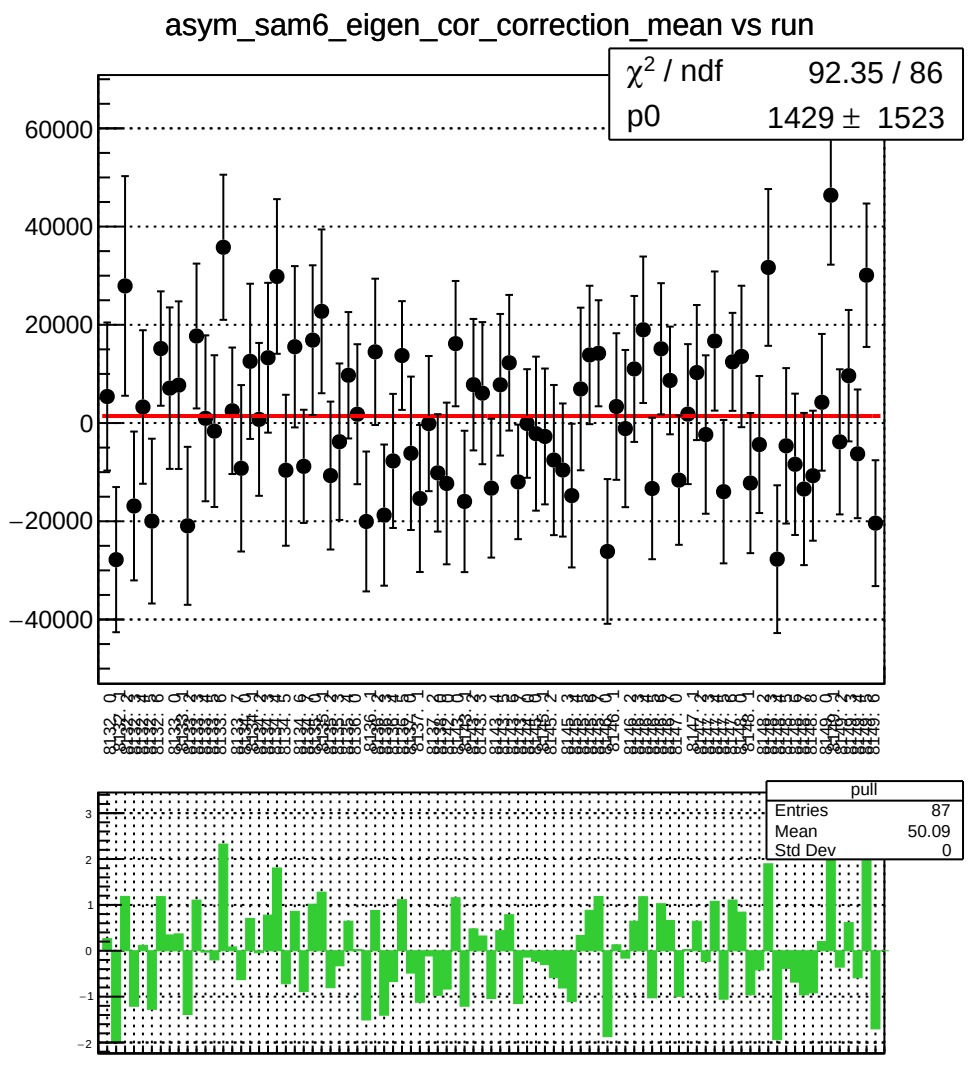

pull1D
Entries 87
Mean −0.006496
Std Dev 1.03
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

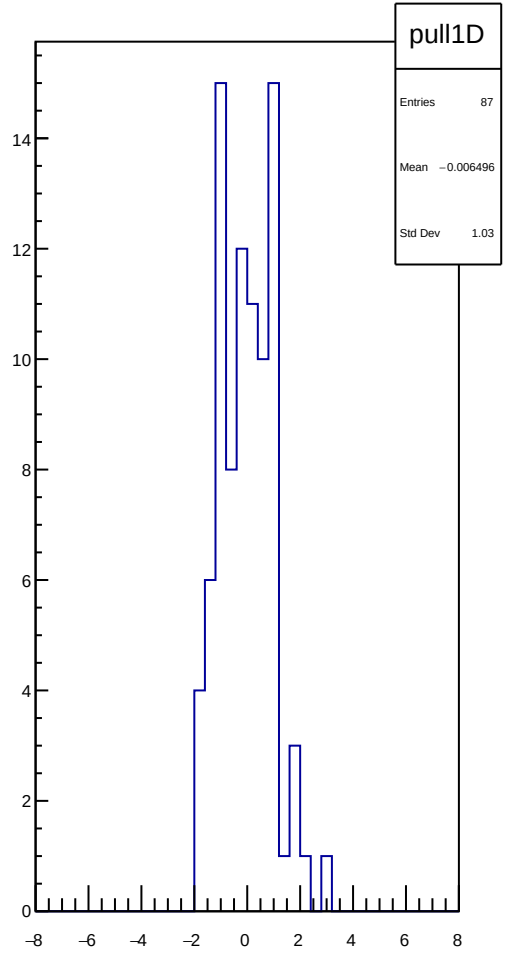
asym_sam6_cor_correction_rms vs run




eigen_cor_asym_sam6_mean vs run
χ² / ndf 122.5 / 86
p0 −281.9 ± 148.8
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 87
Mean −69.47
Std Dev 60.32
3
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.008061
Std Dev 1.186
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 2.913e+04 / 86
p0 136.7 ± 0.1052
400
350
300
250
200
150
100


asym_sam6_eigen_cor_correction_mean vs run
χ² / ndf 92.35 / 86
p0 1429 ± 1523
60000
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 50.09
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 87
Mean −0.006496
Std Dev 1.03
14
12
10
8
6
4
2
0
−8
−6
−4
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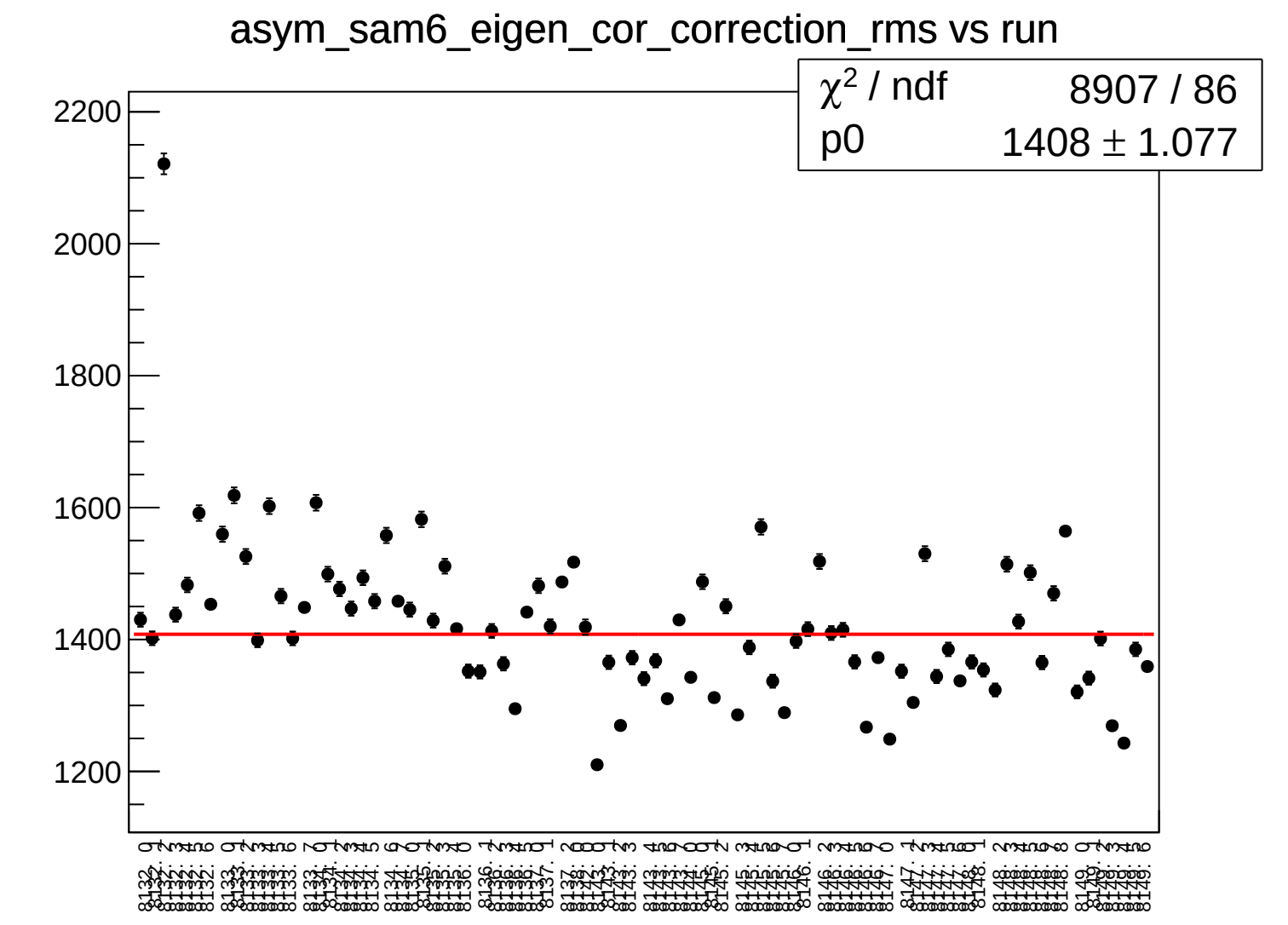
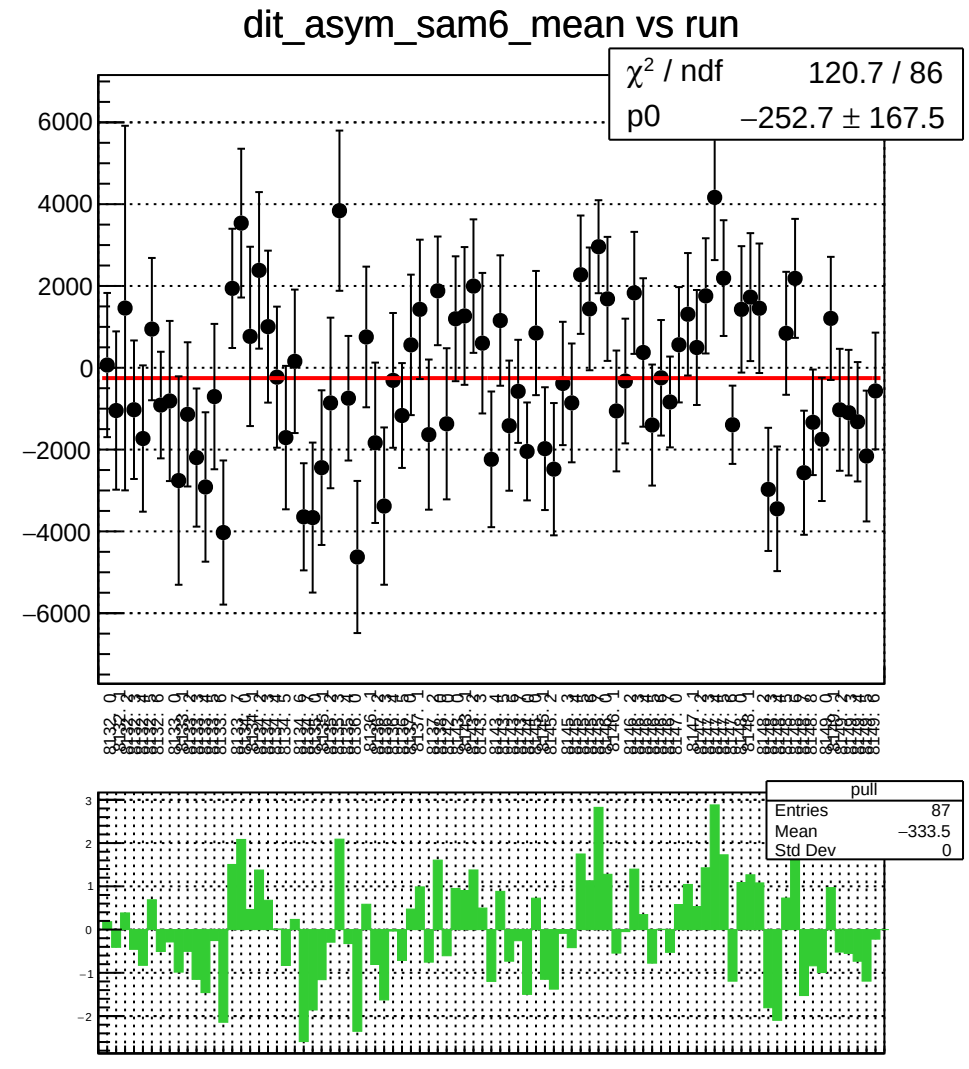
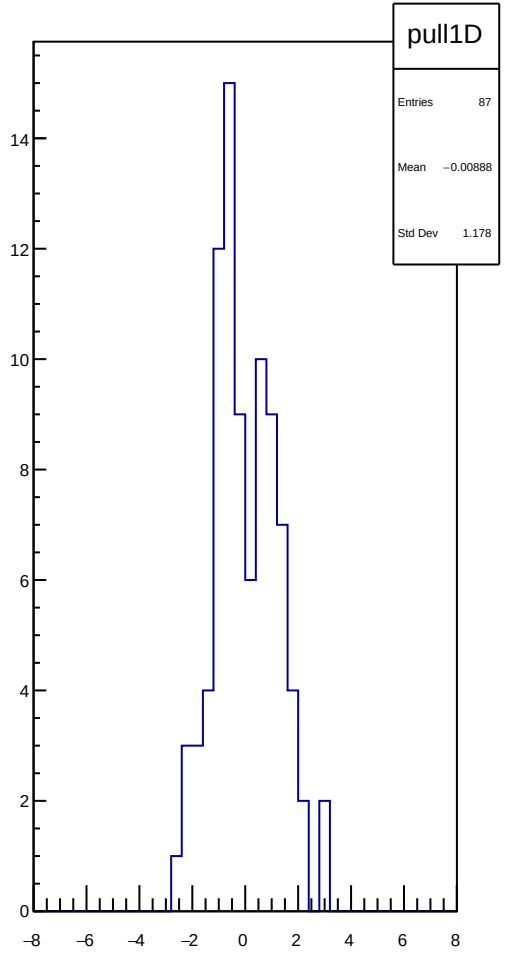
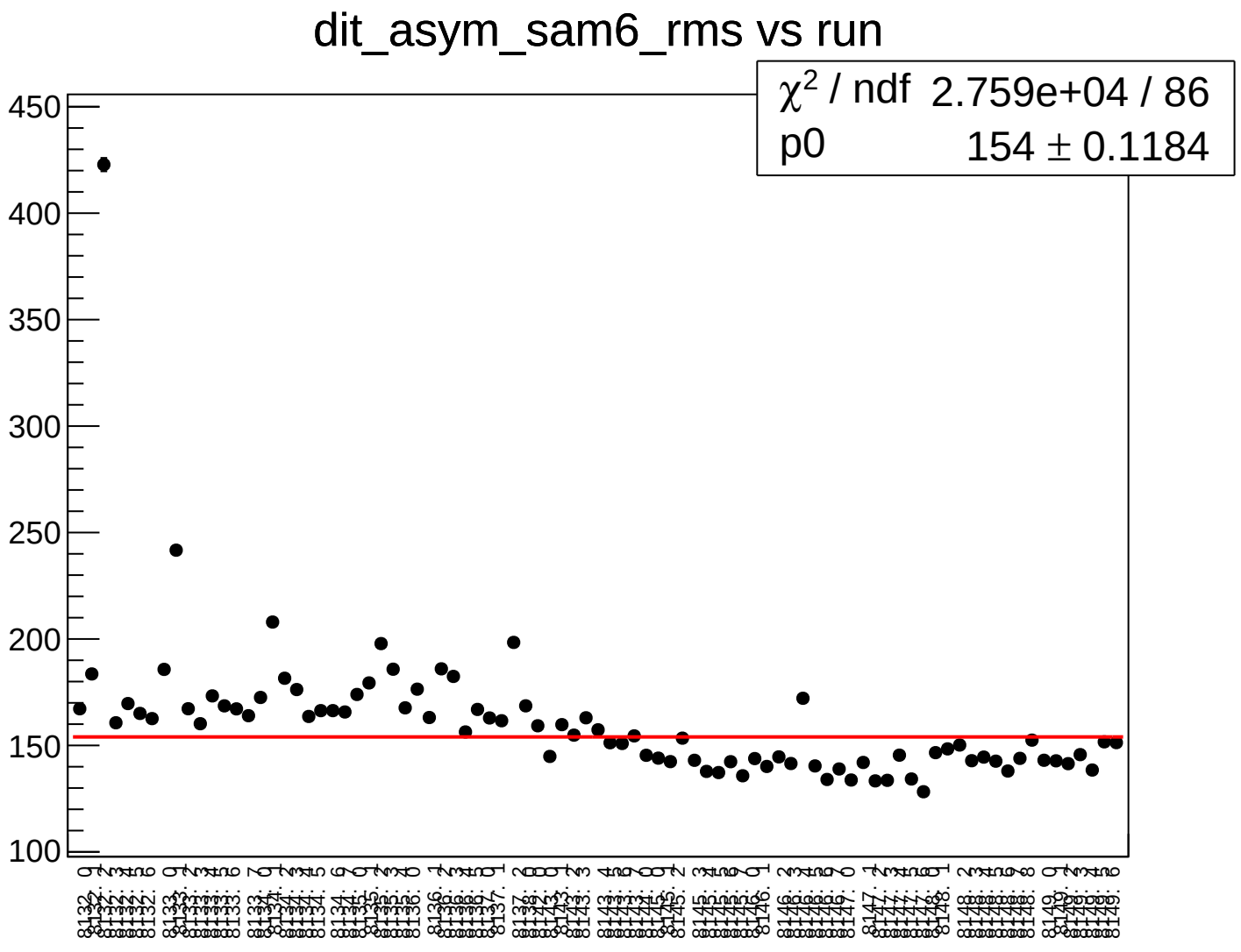
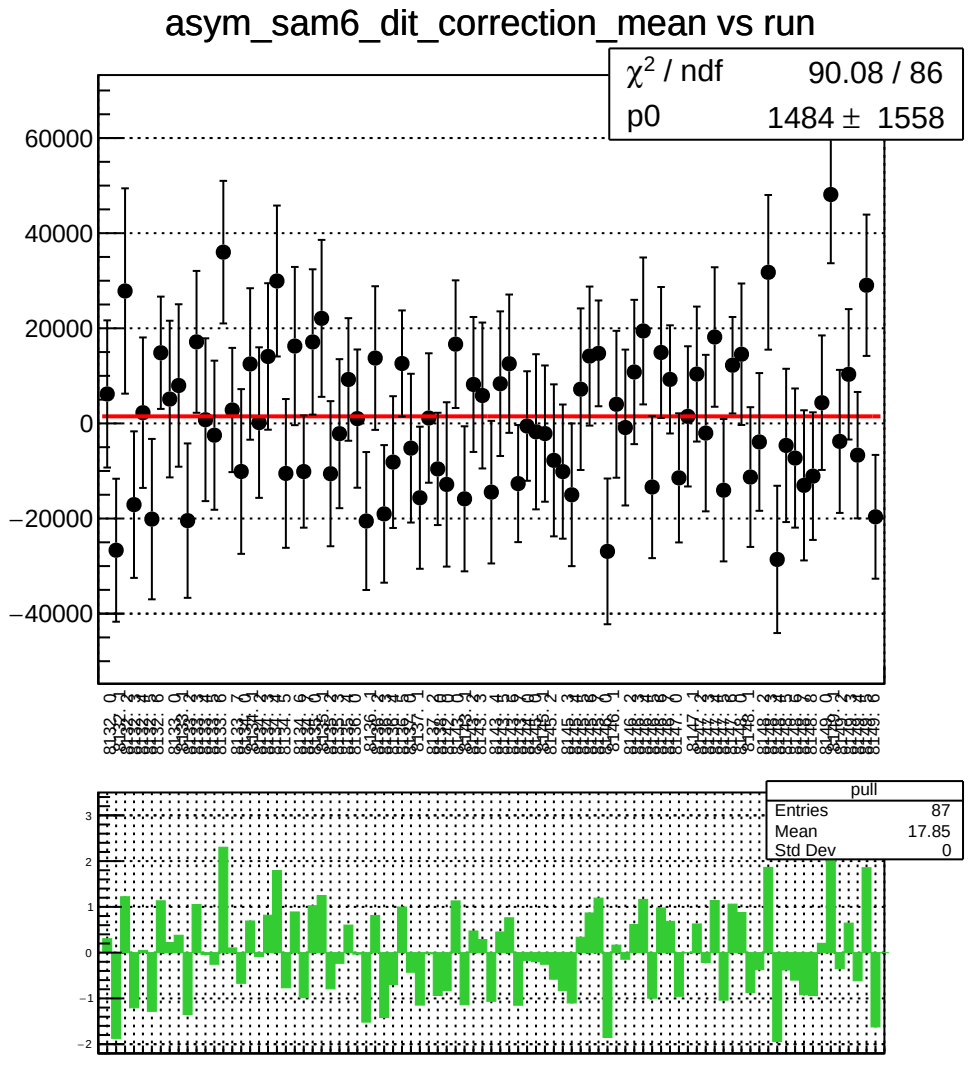
2
4
6
8

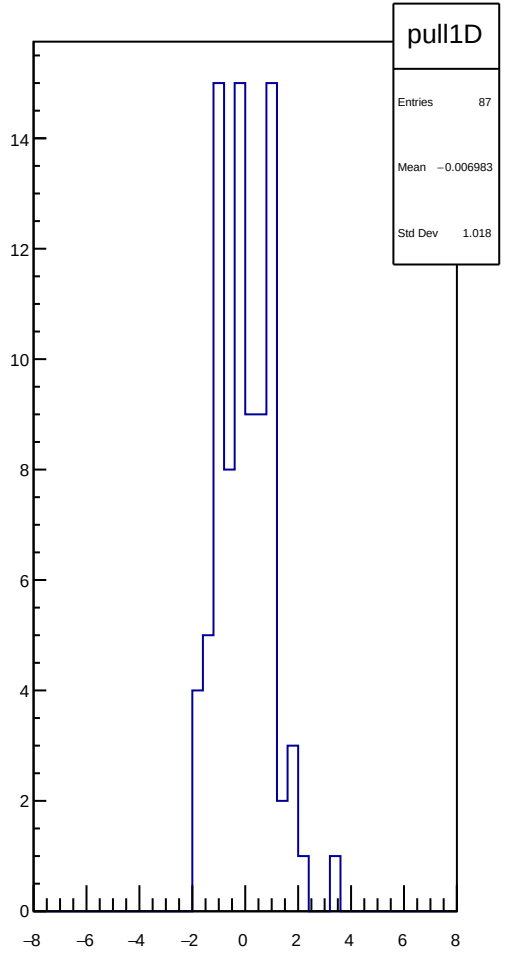

asym_sam6_eigen_cor_correction_rms vs run
χ² / ndf 8907 / 86
p0 1408 ± 1.077
2200
2000
1800
1600
1400
1200

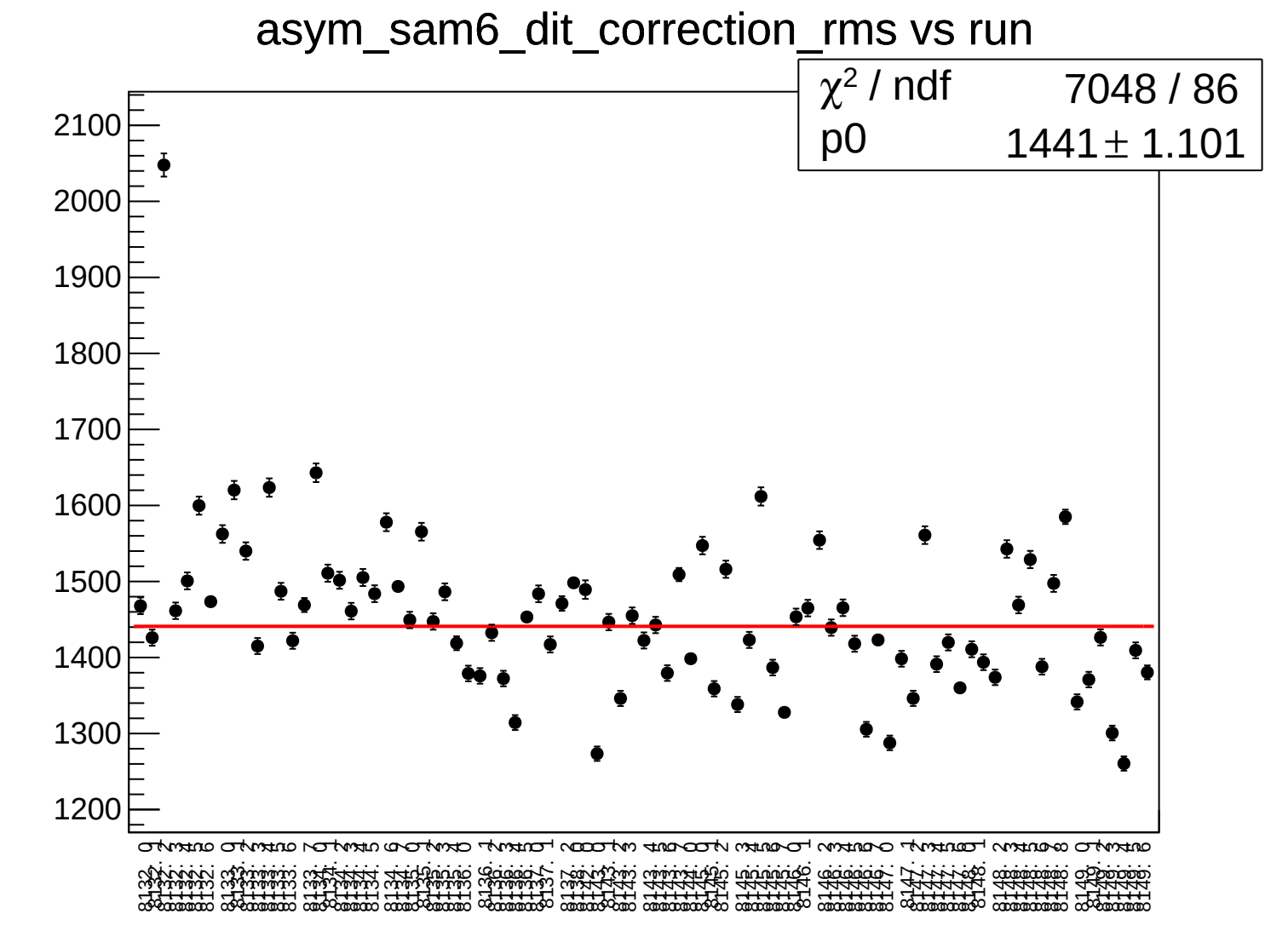

dit_asym_sam6_mean vs run
χ² / ndf 120.7 / 86
p0 −252.7 ± 167.5
pull
Entries 87
Mean −333.5
Std Dev 0

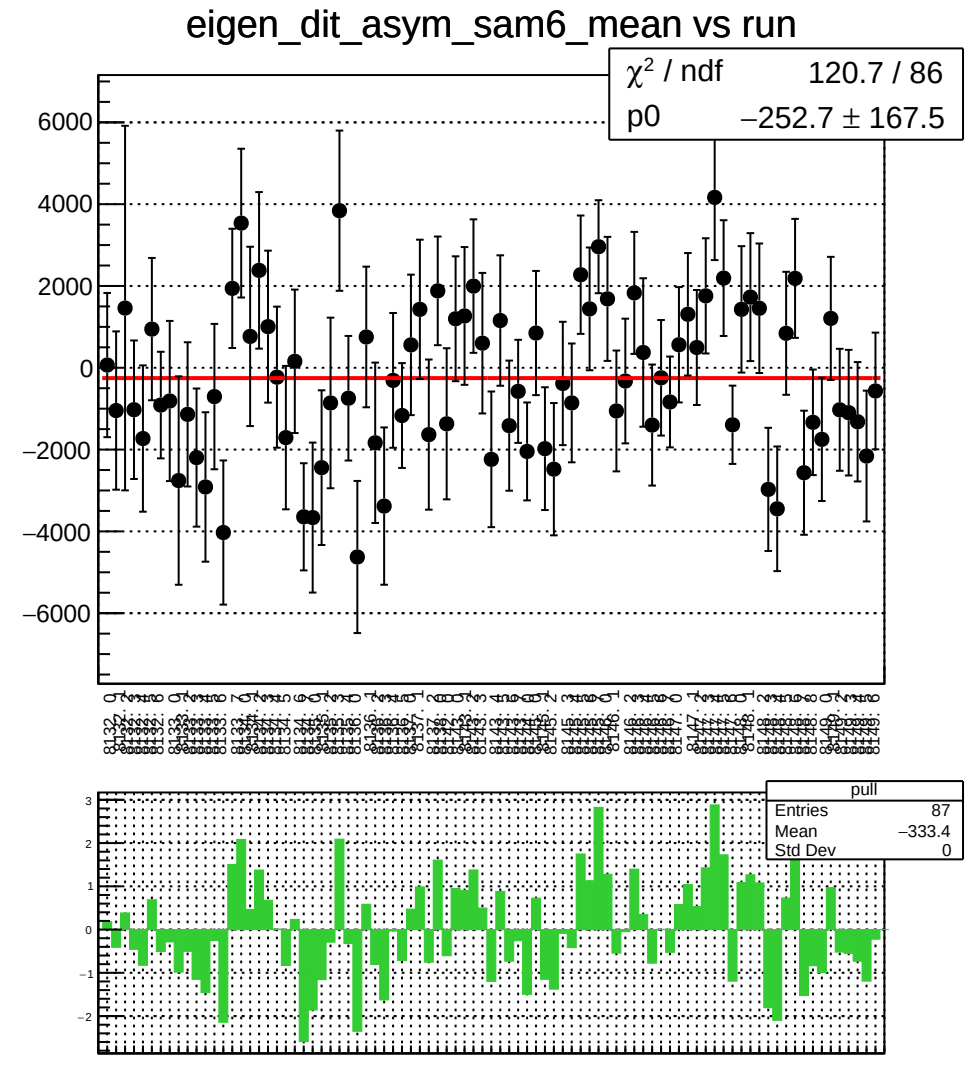

pull1D
Entries 87
Mean −0.00888
Std Dev 1.178

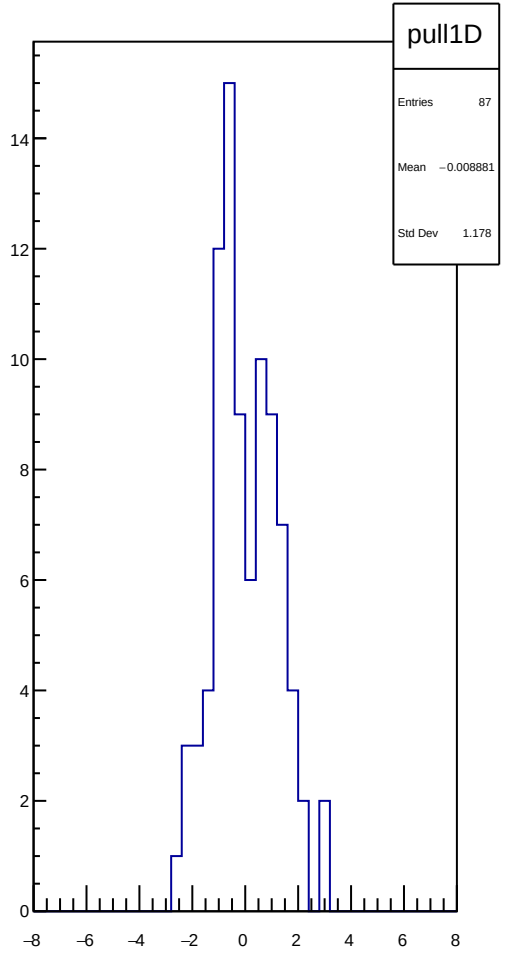

dit_asym_sam6_rms vs run
χ² / ndf 2.759e+04 / 86
p0 154 ± 0.1184
450
400
350
300
250
200
150
100

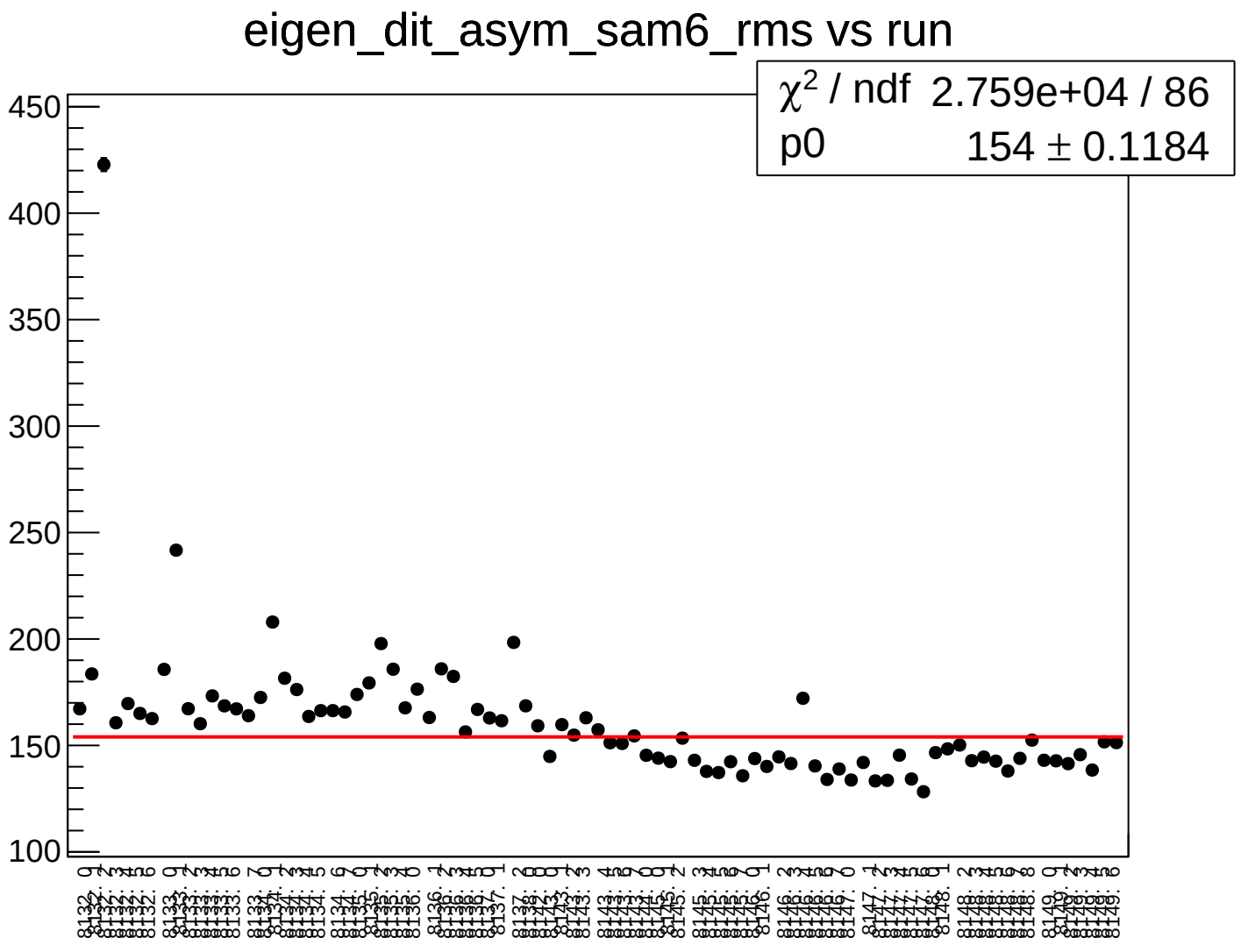

asym_sam6_dit_correction_mean vs run
χ² / ndf 90.08 / 86
p0 1484 ± 1558
60000
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 17.85
Std Dev 0
3
2
1
0
−1
−2

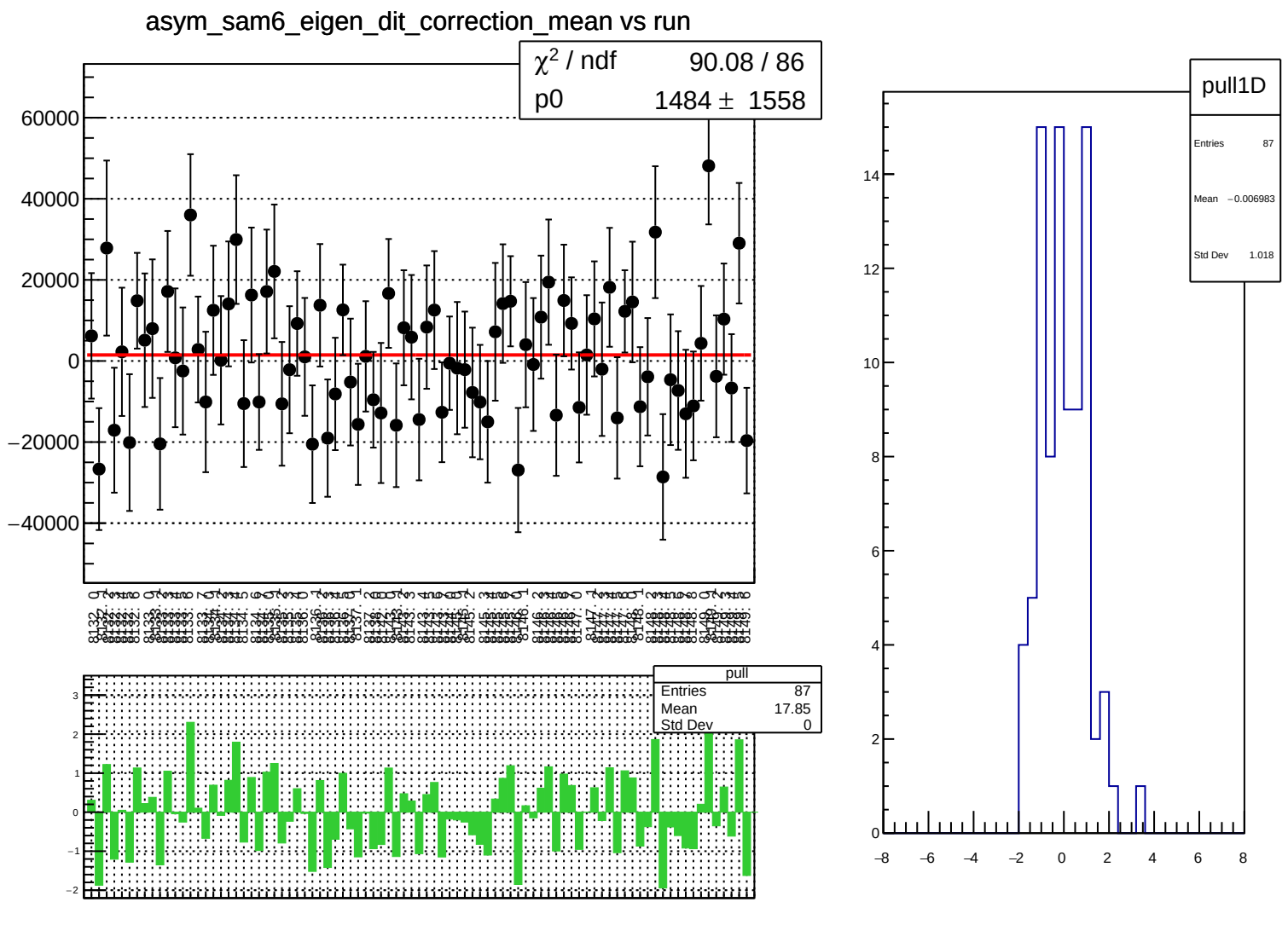

pull1D
Entries 87
Mean −0.006983
Std Dev 1.018
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

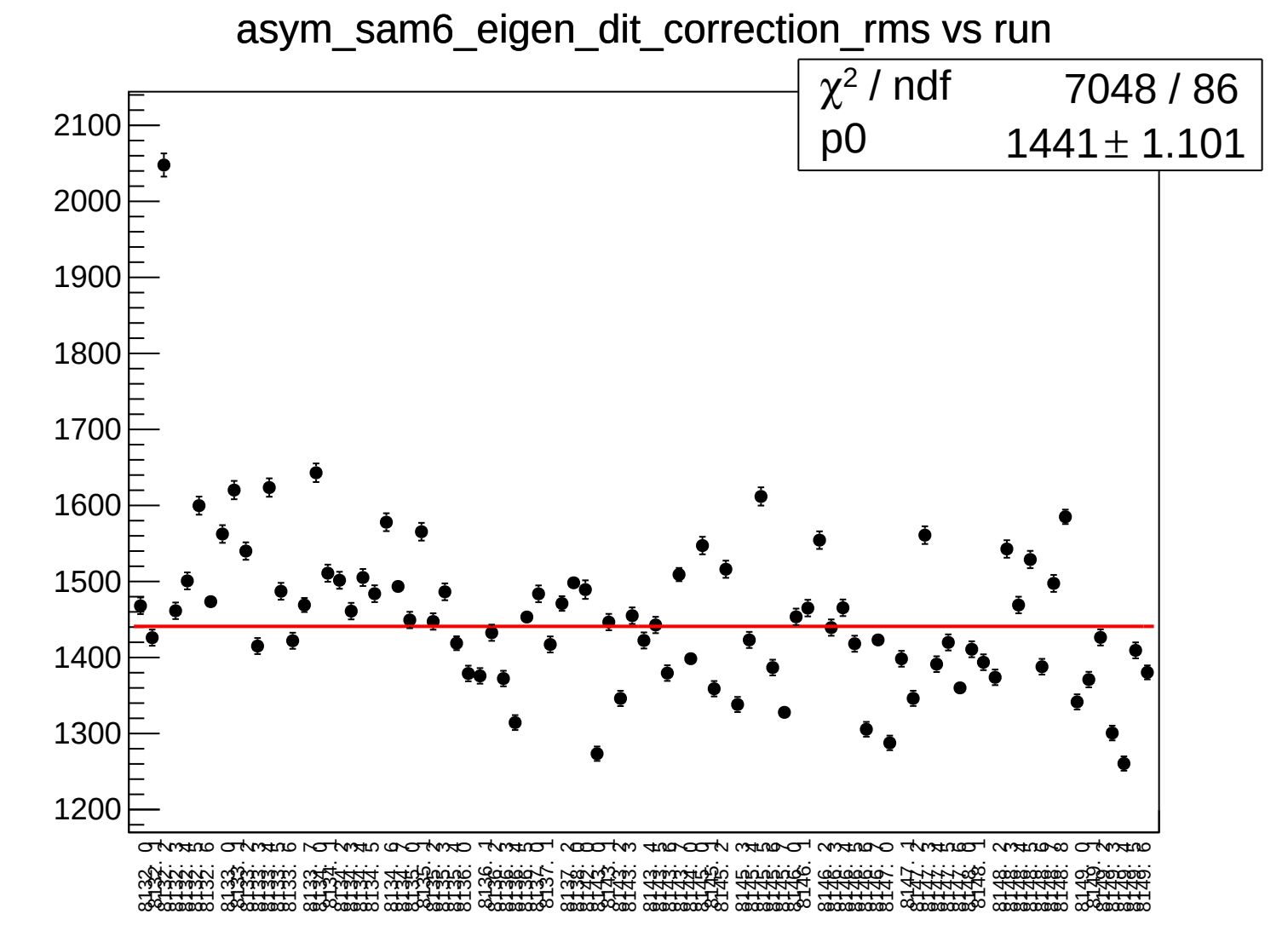

asym_sam6_dit_correction_rms vs run
χ² / ndf 7048 / 86
p0 1441 ± 1.101
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200

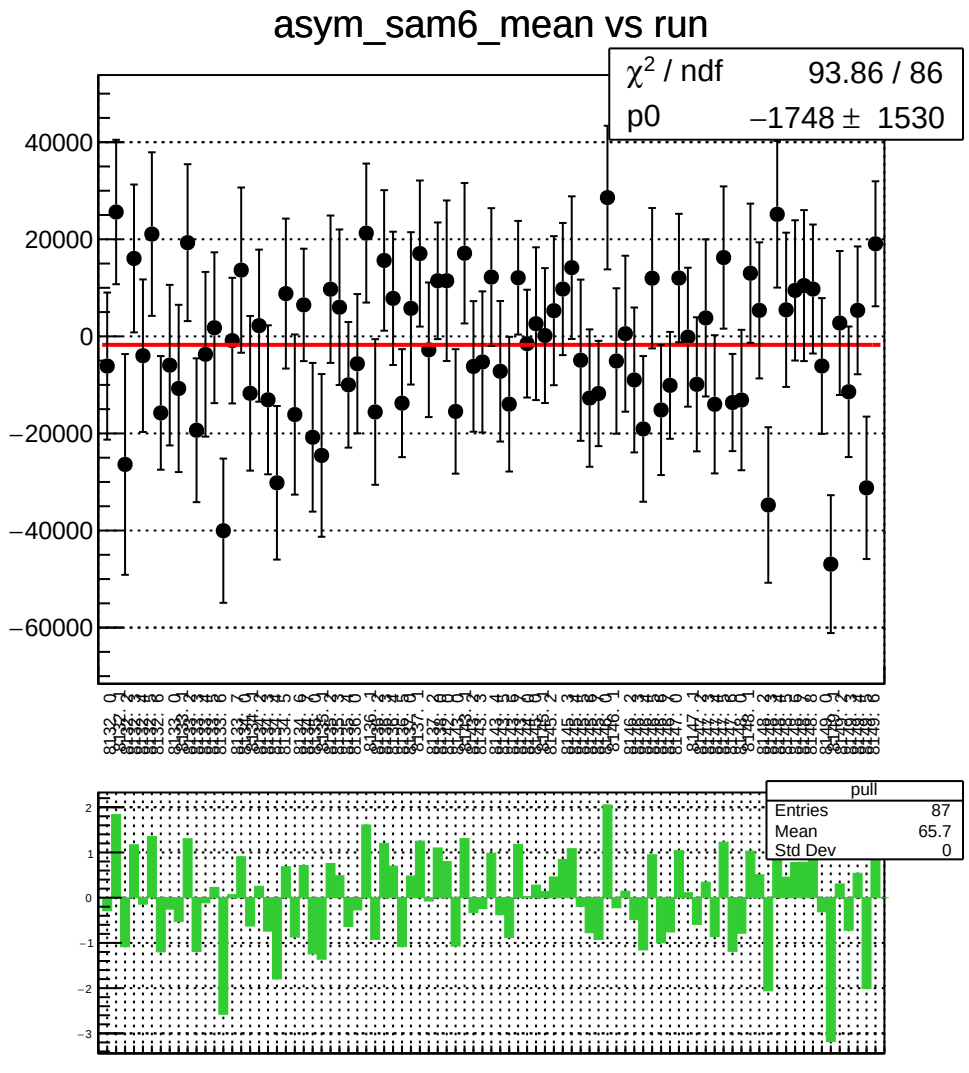

eigen_dit_asym_sam6_mean vs run
χ² / ndf 120.7 / 86
p0 −252.7 ± 167.5
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 87
Mean −333.4
Std Dev 0
3
2
1
0
−1
−2

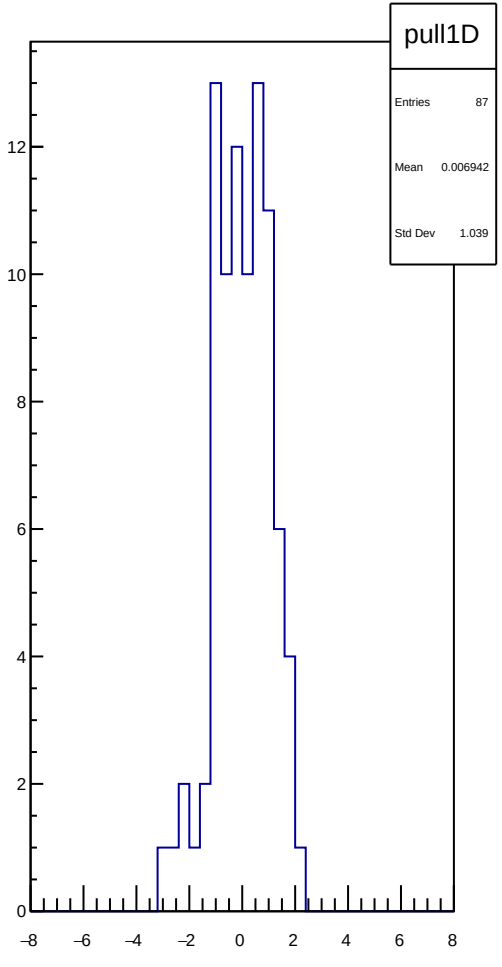

pull1D
Entries 87
Mean −0.008881
Std Dev 1.178
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

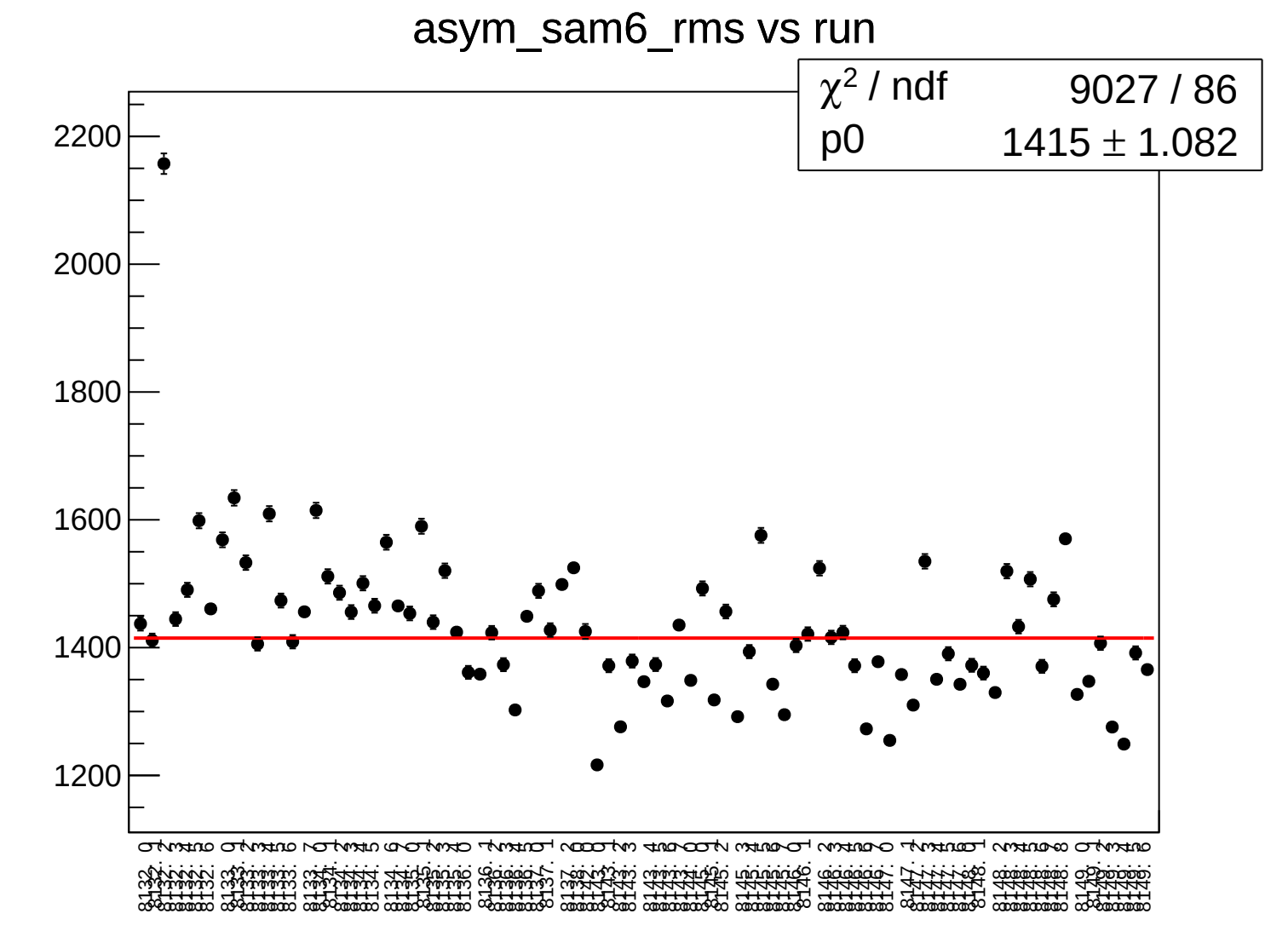

eigen_dit_asym_sam6_rms vs run
χ² / ndf 2.759e+04 / 86
p0 154 ± 0.1184
450
400
350
300
250
200
150
100

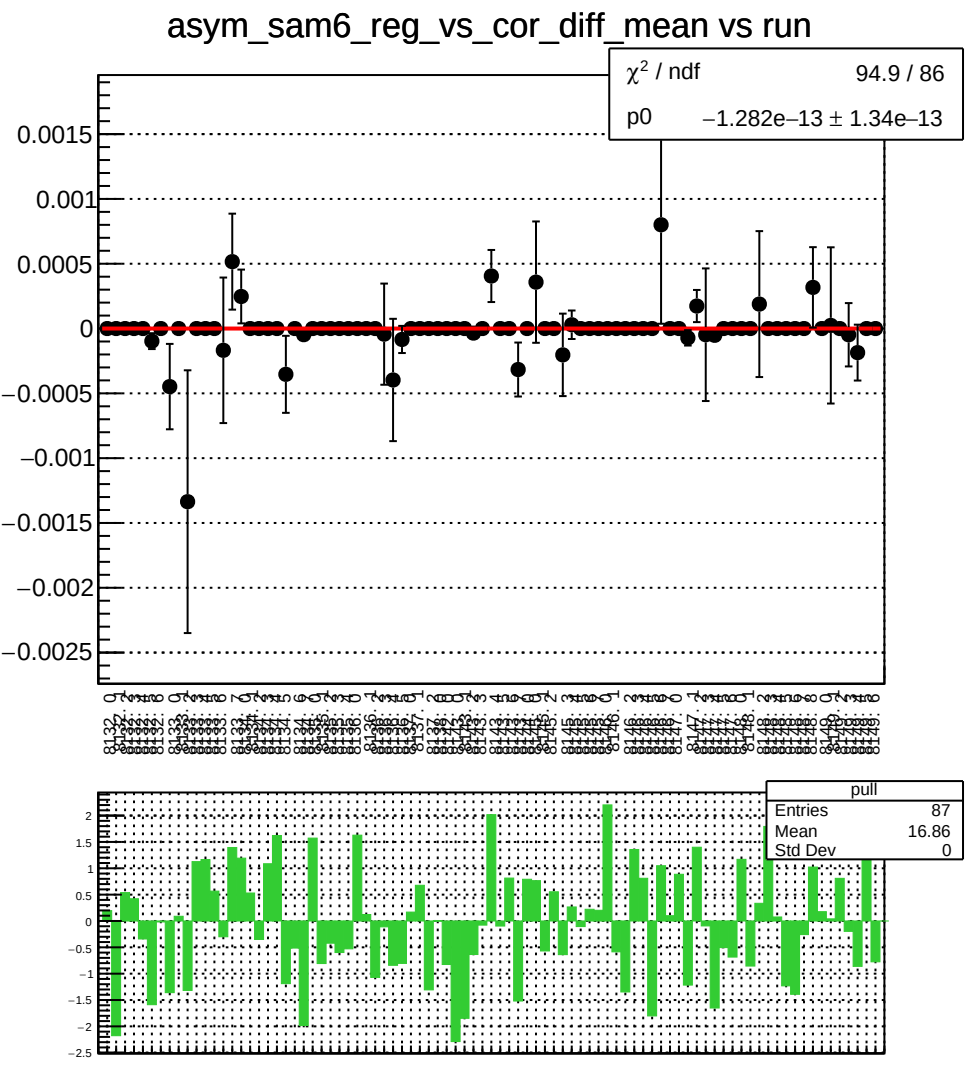

asym_sam6_eigen_dit_correction_mean vs run
χ² / ndf 90.08 / 86
p0 1484 ± 1558
60000
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 17.85
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.006983
Std Dev 1.018
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

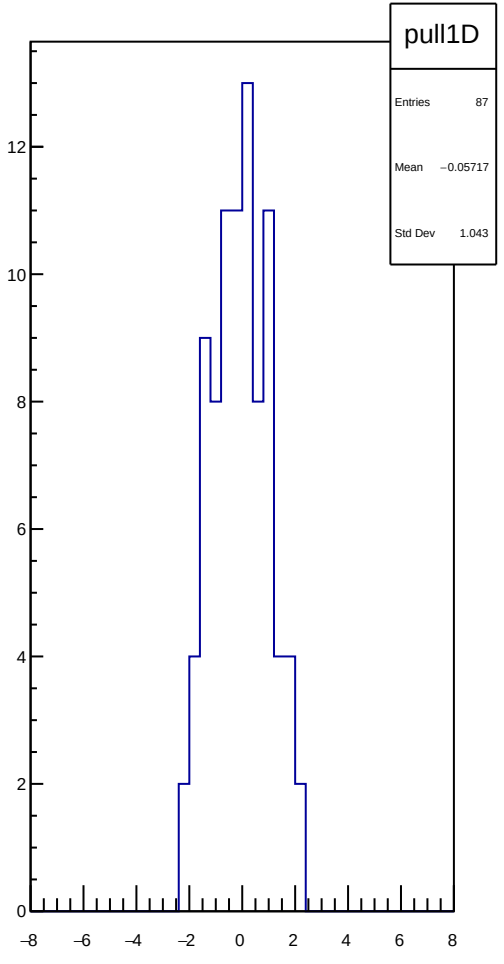

asym_sam6_eigen_dit_correction_rms vs run
χ² / ndf 7048 / 86
p0 1441 ± 1.101
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200

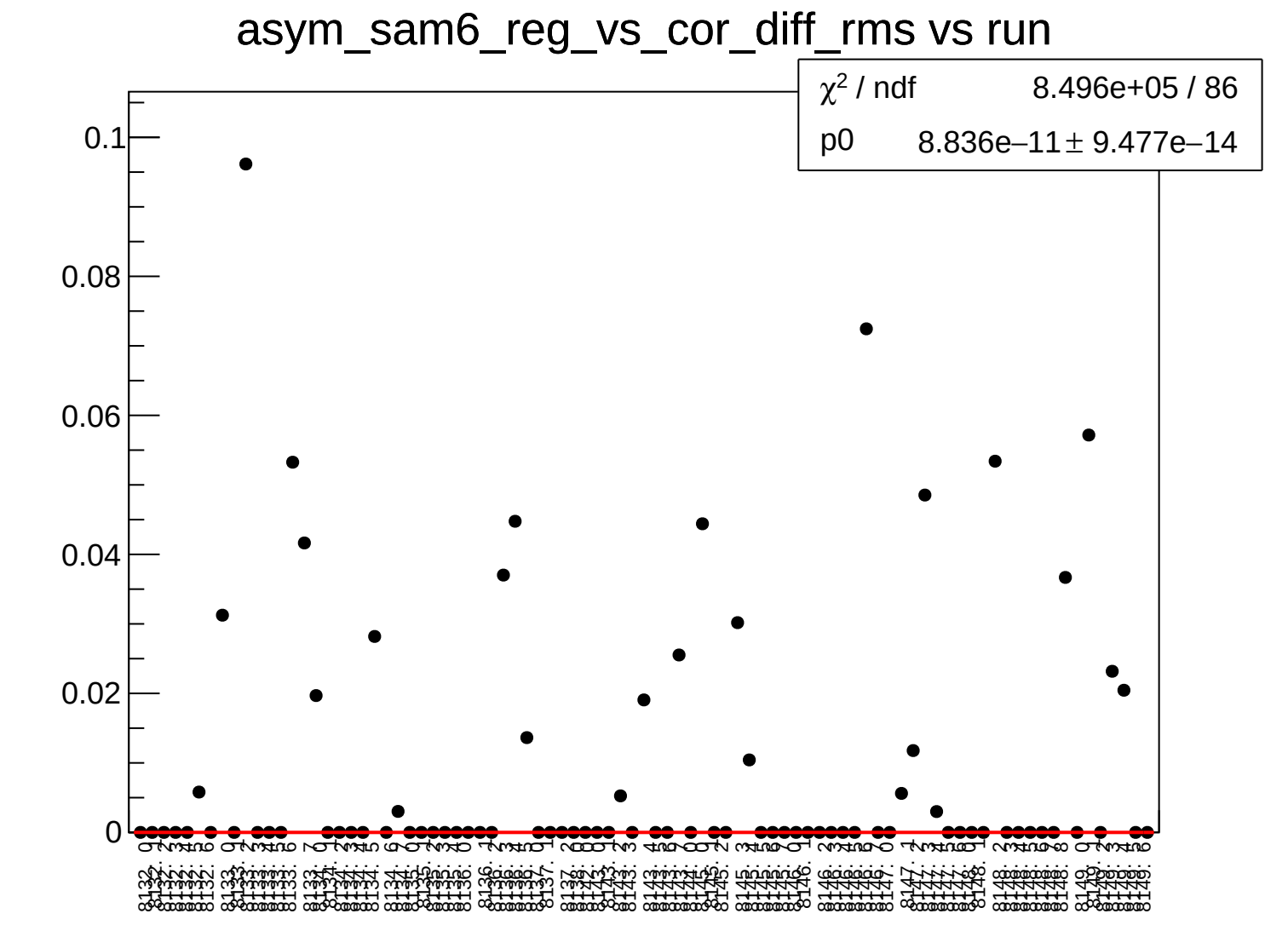

asym_sam6_mean vs run
χ² / ndf 93.86 / 86
p0 −1748 ± 1530
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 65.7
Std Dev 0
2
1
0
−1
−2
−3

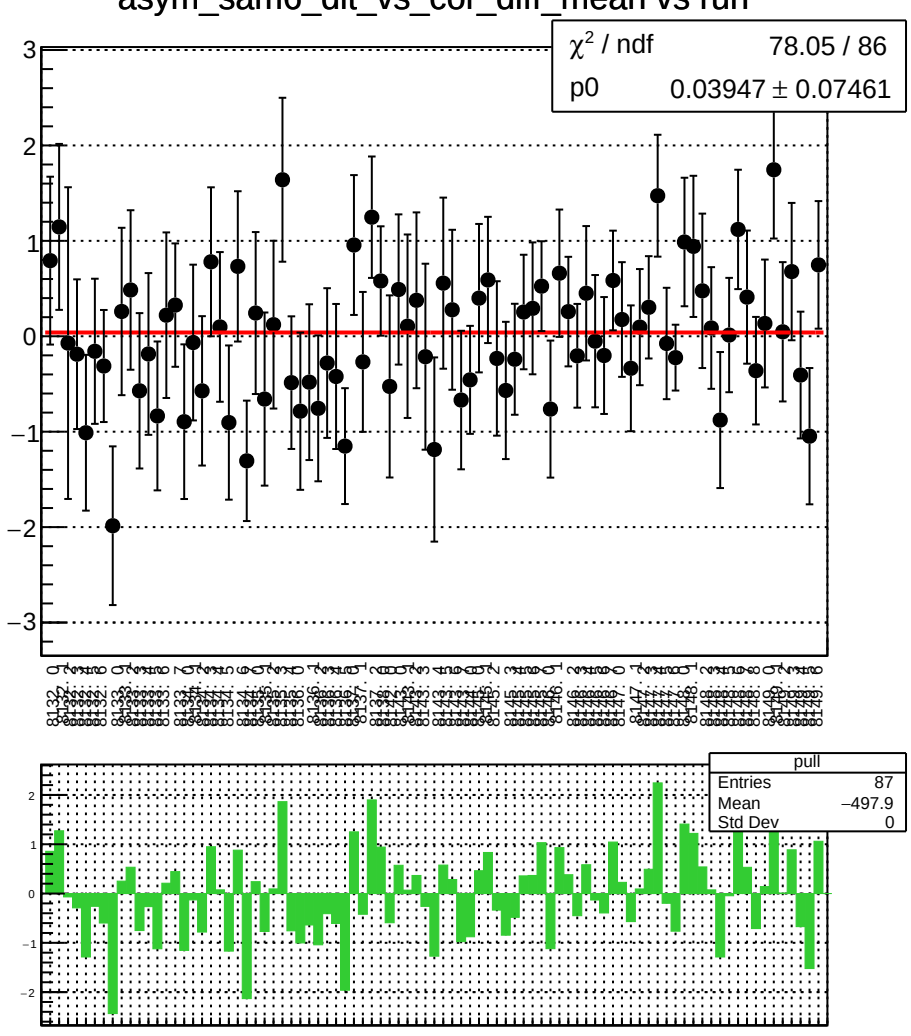

pull1D
Entries 87
Mean 0.006942
Std Dev 1.039
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

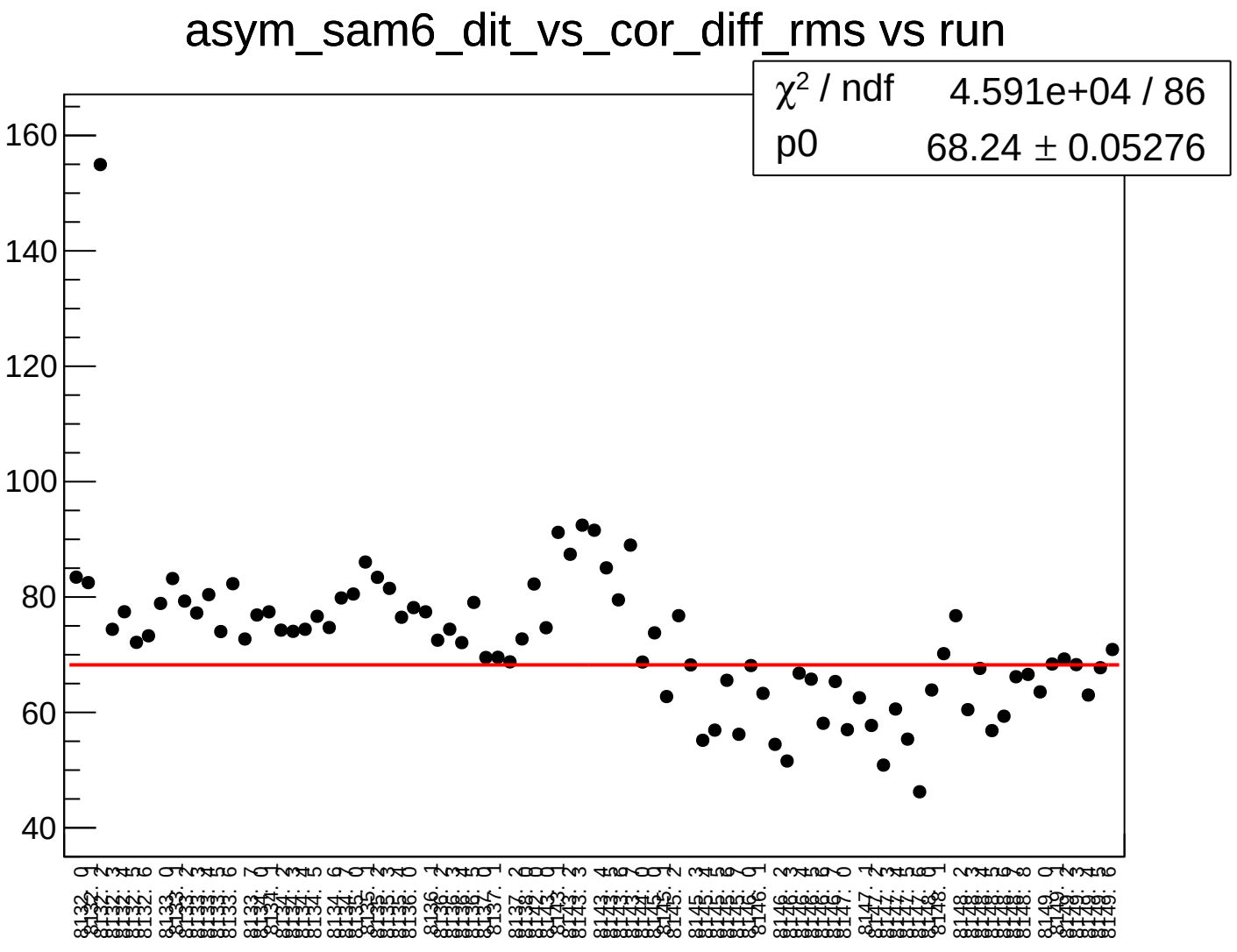

asym_sam6_rms vs run
χ^2 / ndf 9027 / 86
p0 1415 ± 1.082
2200
2000
1800
1600
1400
1200

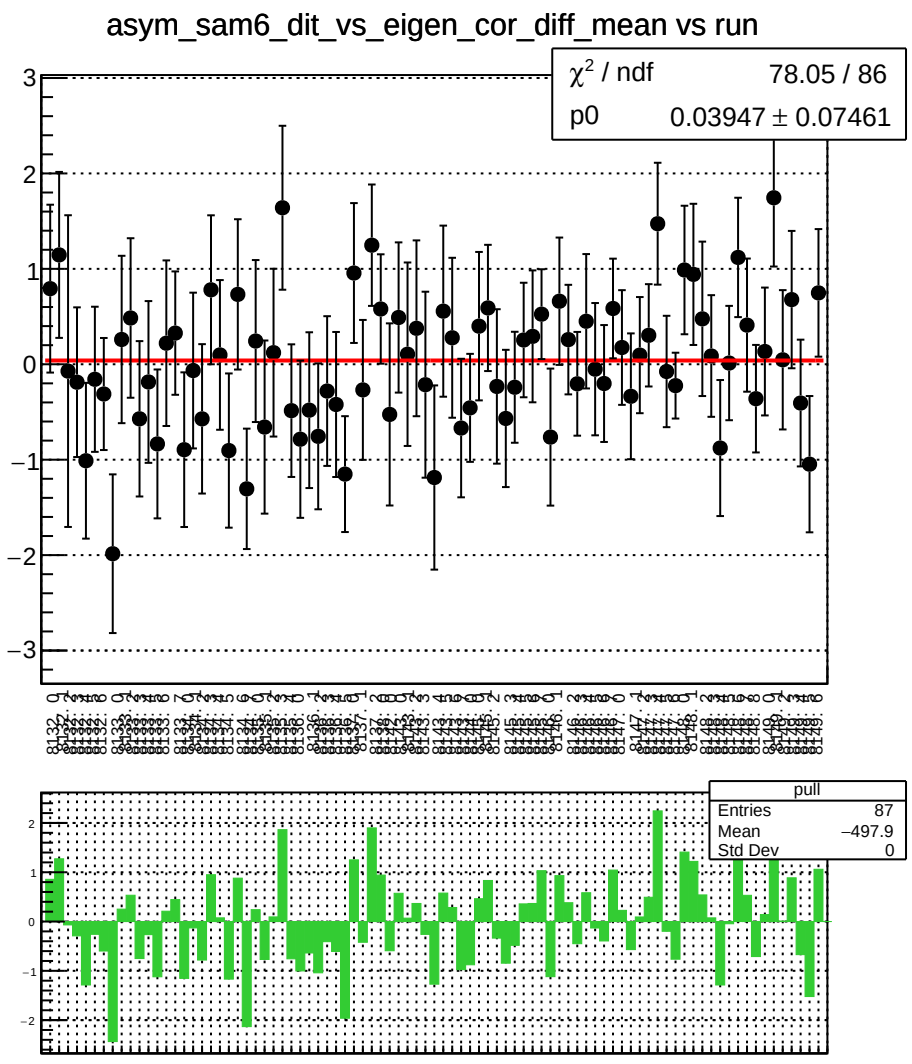

asym_sam6_reg_vs_cor_diff_mean vs run
χ² / ndf 94.9 / 86
p0 −1.282e−13 ± 1.34e−13
pull
Entries 87
Mean 16.86
Std Dev 0

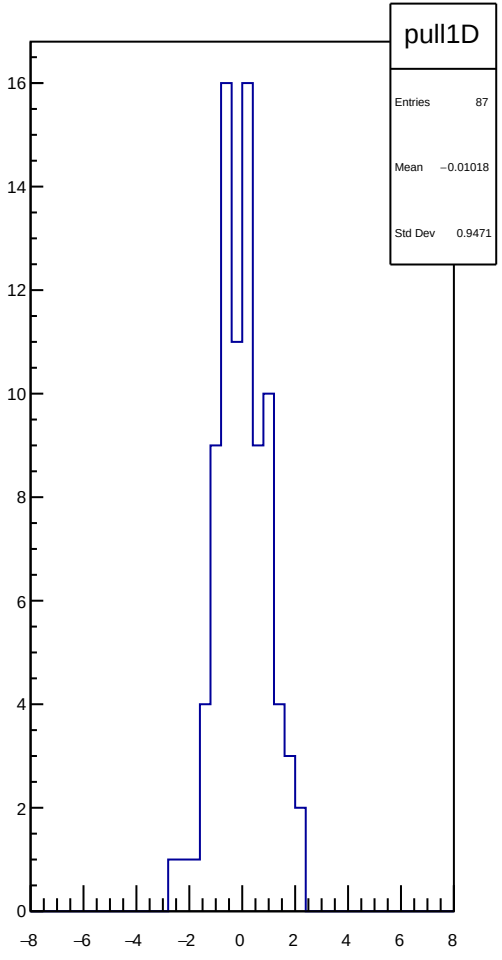

pull1D
Entries 87
Mean −0.05717
Std Dev 1.043

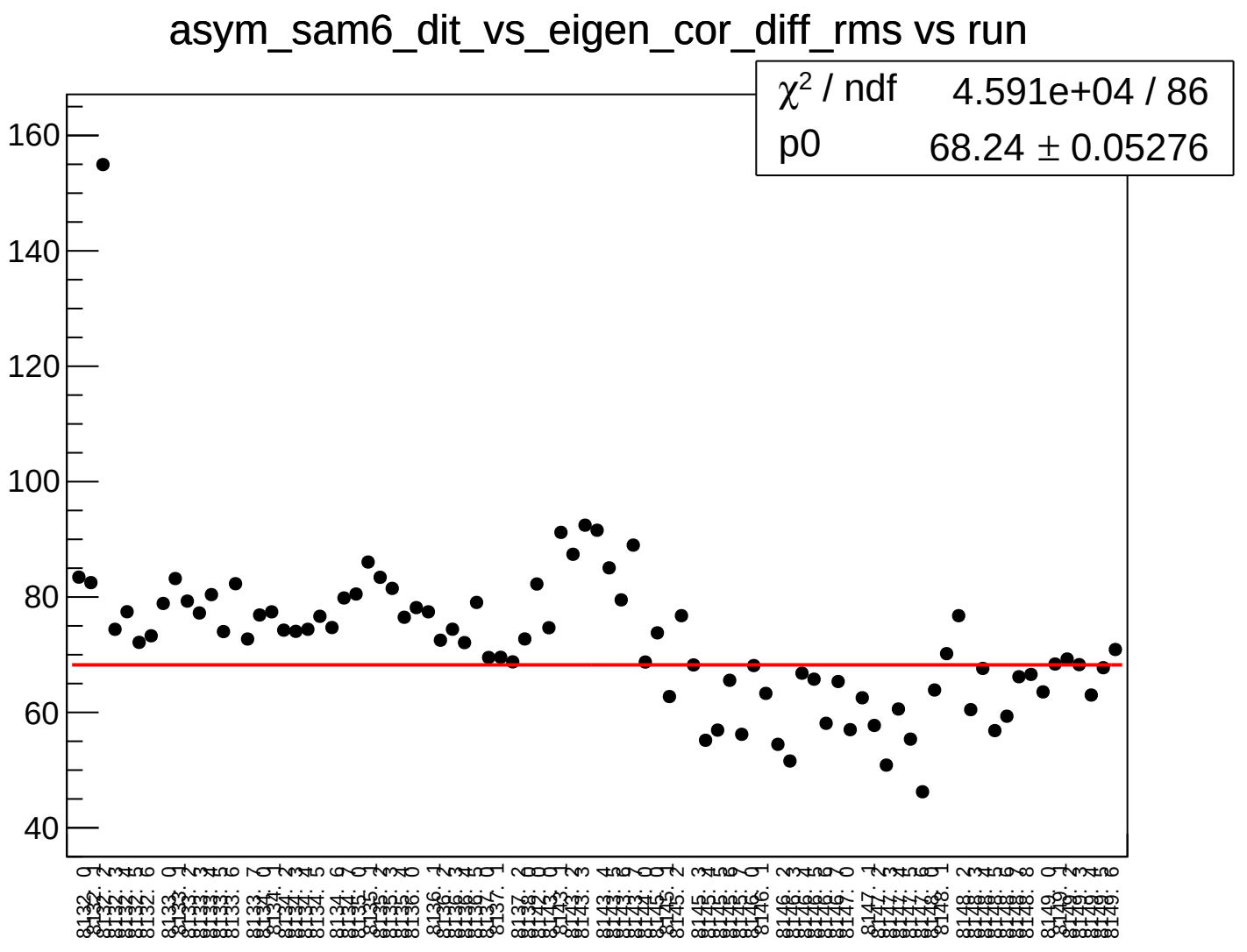

asym_sam6_reg_vs_cor_diff_rms vs run
χ² / ndf 8.496e+05 / 86
p0 8.836e−11 ± 9.477e−14
0.1
0.08
0.06
0.04
0.02
0

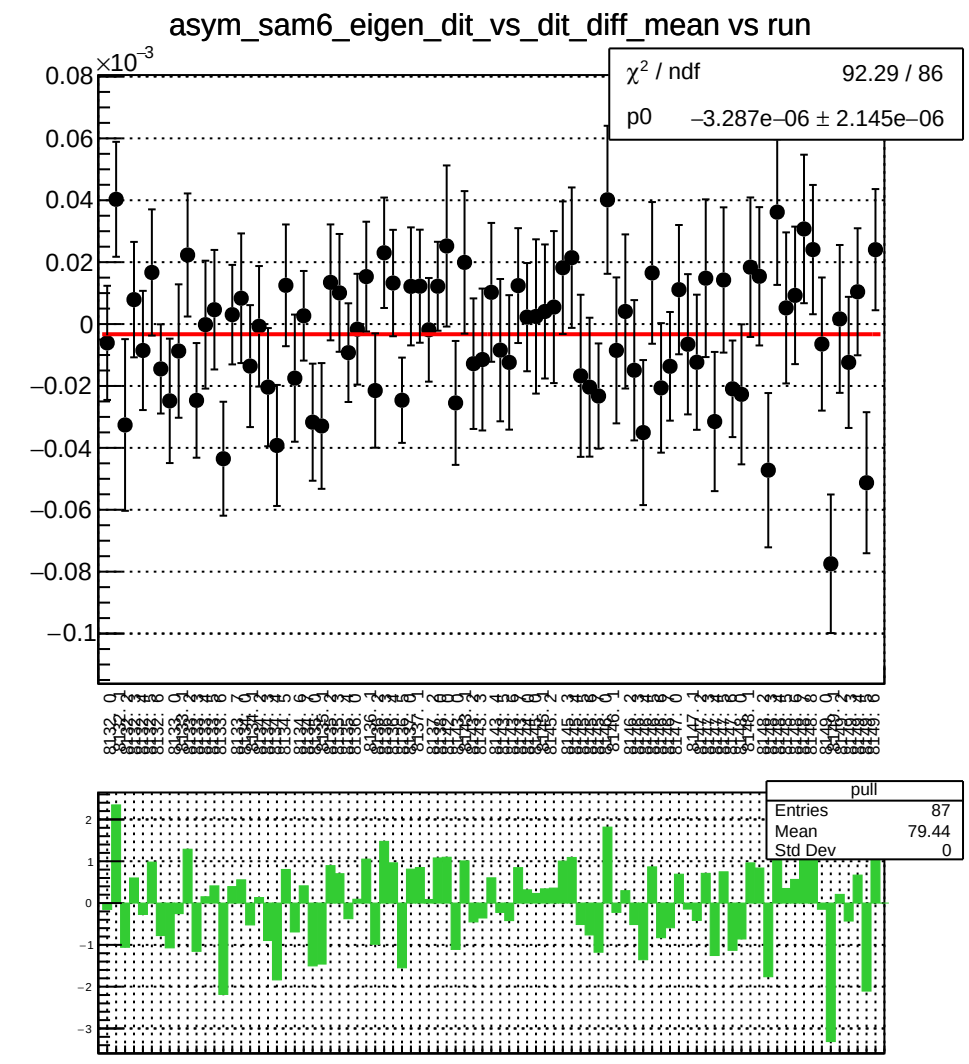

asym_sam6_dit_vs_cor_diff_mean vs run
χ² / ndf 78.05 / 86
p0 0.03947 ± 0.07461
pull
Entries 87
Mean −497.9
Std Dev 0
pull1D
Entries 87
Mean −0.01018
Std Dev 0.9471

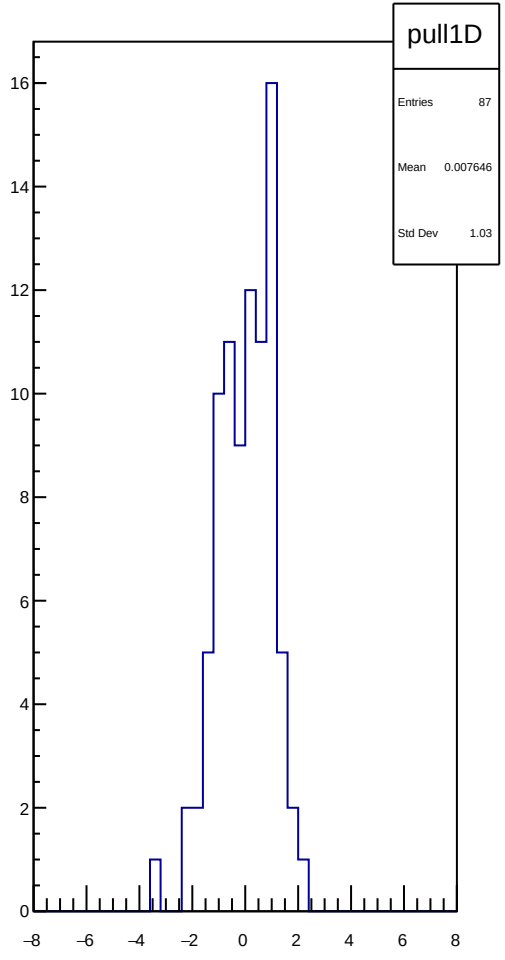

asym_sam6_dit_vs_cor_diff_rms vs run
χ² / ndf 4.591e+04 / 86
p0 68.24 ± 0.05276
160
140
120
100
80
60
40

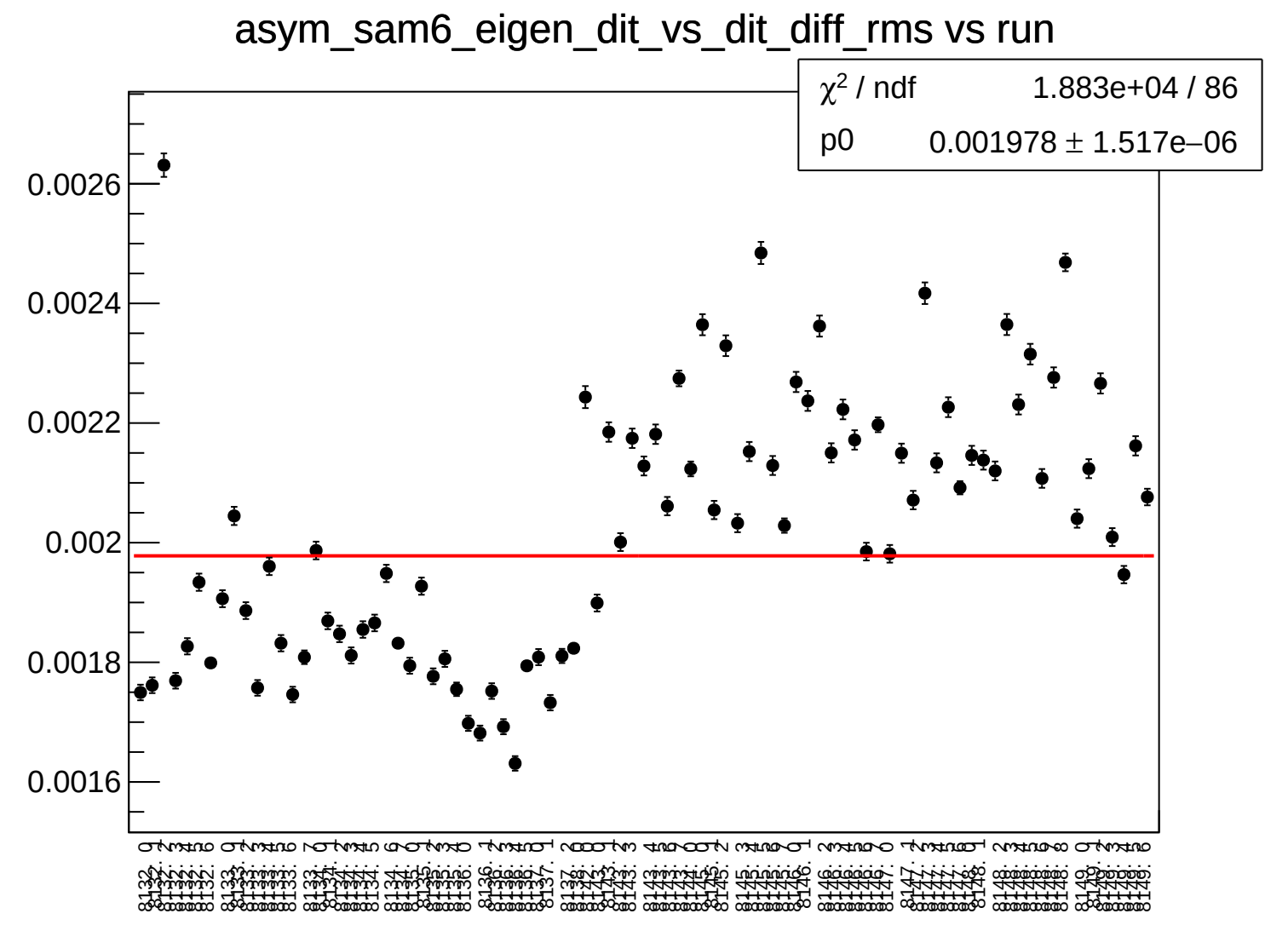

asym_sam6_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.05 / 86
p0 0.03947 ± 0.07461
pull
Entries 87
Mean −497.9
Std Dev 0

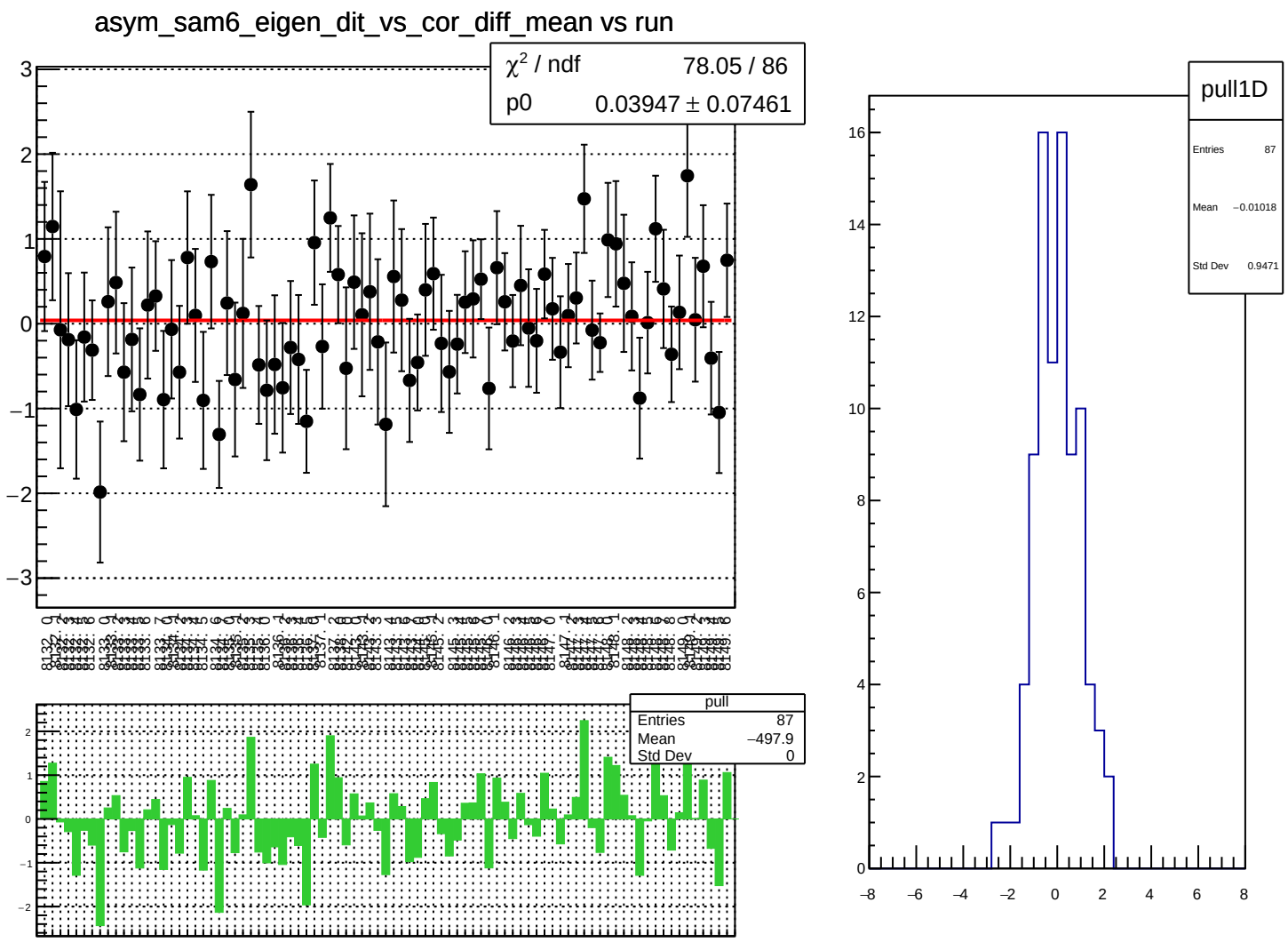

pull1D
Entries 87
Mean −0.01018
Std Dev 0.9471

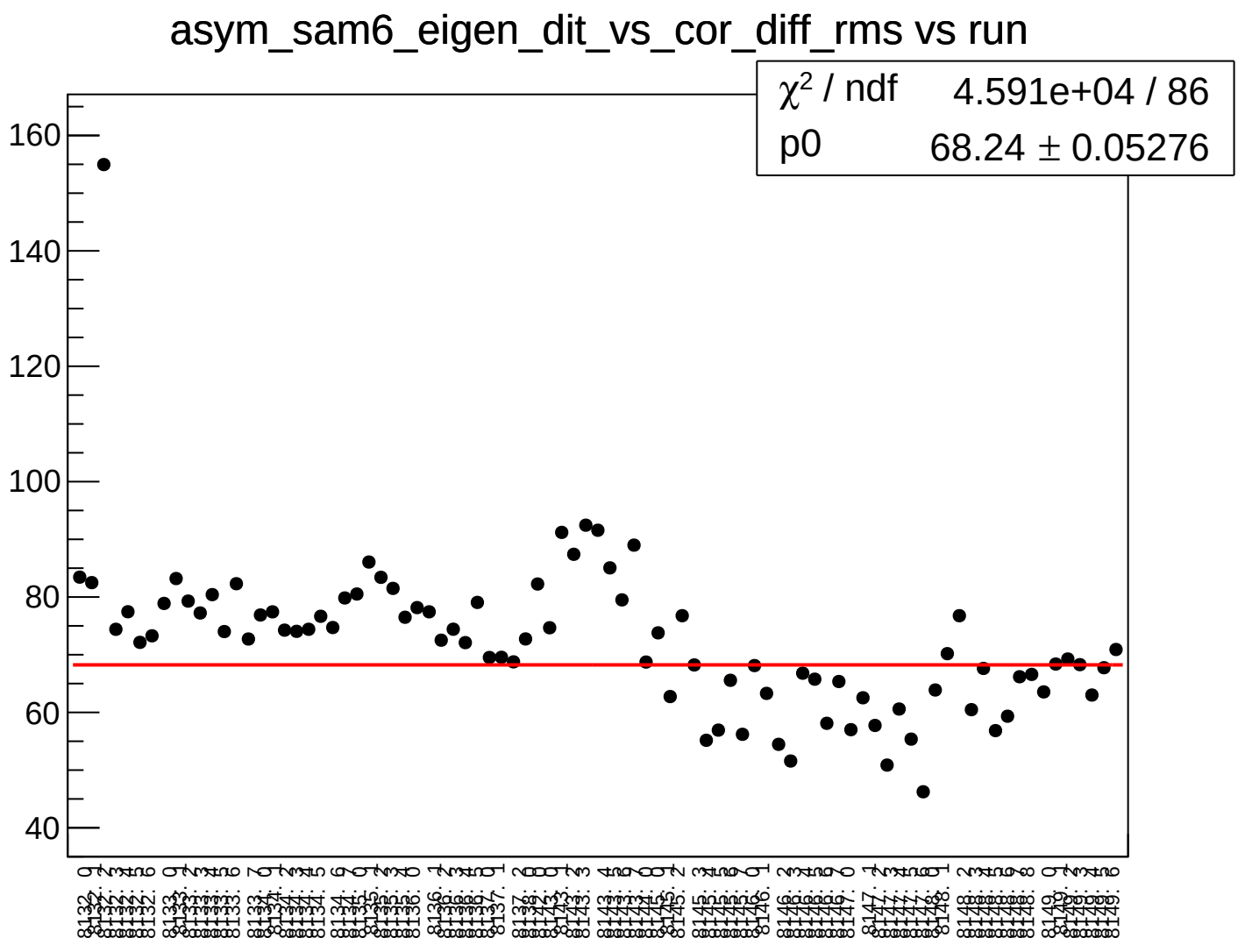

asym_sam6_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.591e+04 / 86
p0 68.24 ± 0.05276
160
140
120
100
80
60
40

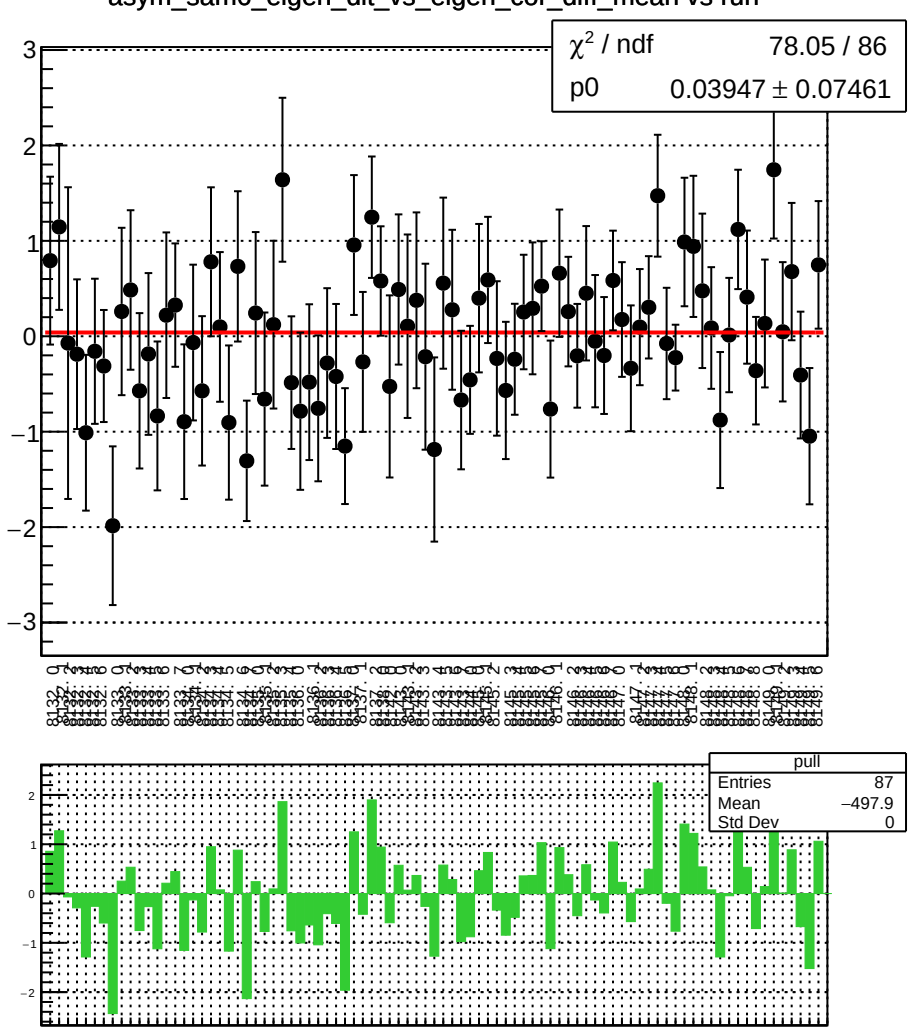

asym_sam6_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 92.29 / 86
p0 −3.287e−06 ± 2.145e−06
×10⁻³
pull
Entries 87
Mean 79.44
Std Dev 0

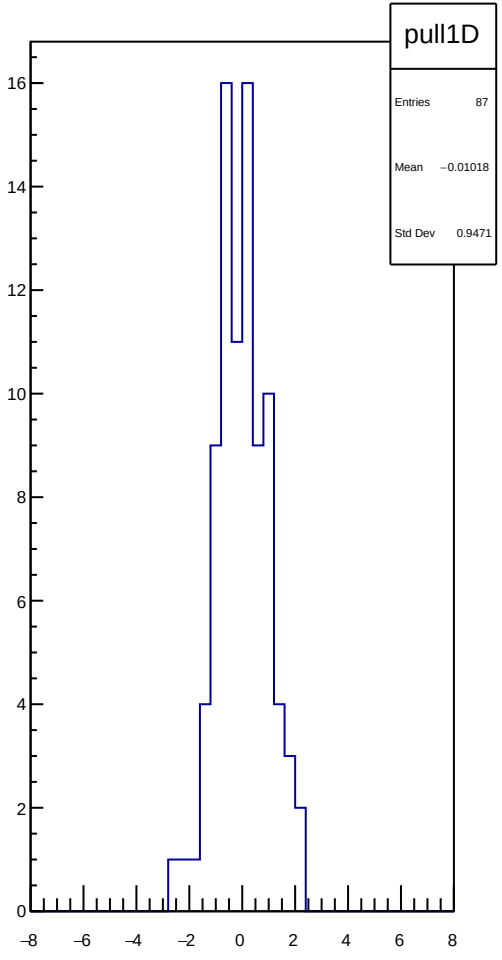

pull1D
Entries 87
Mean 0.007646
Std Dev 1.03

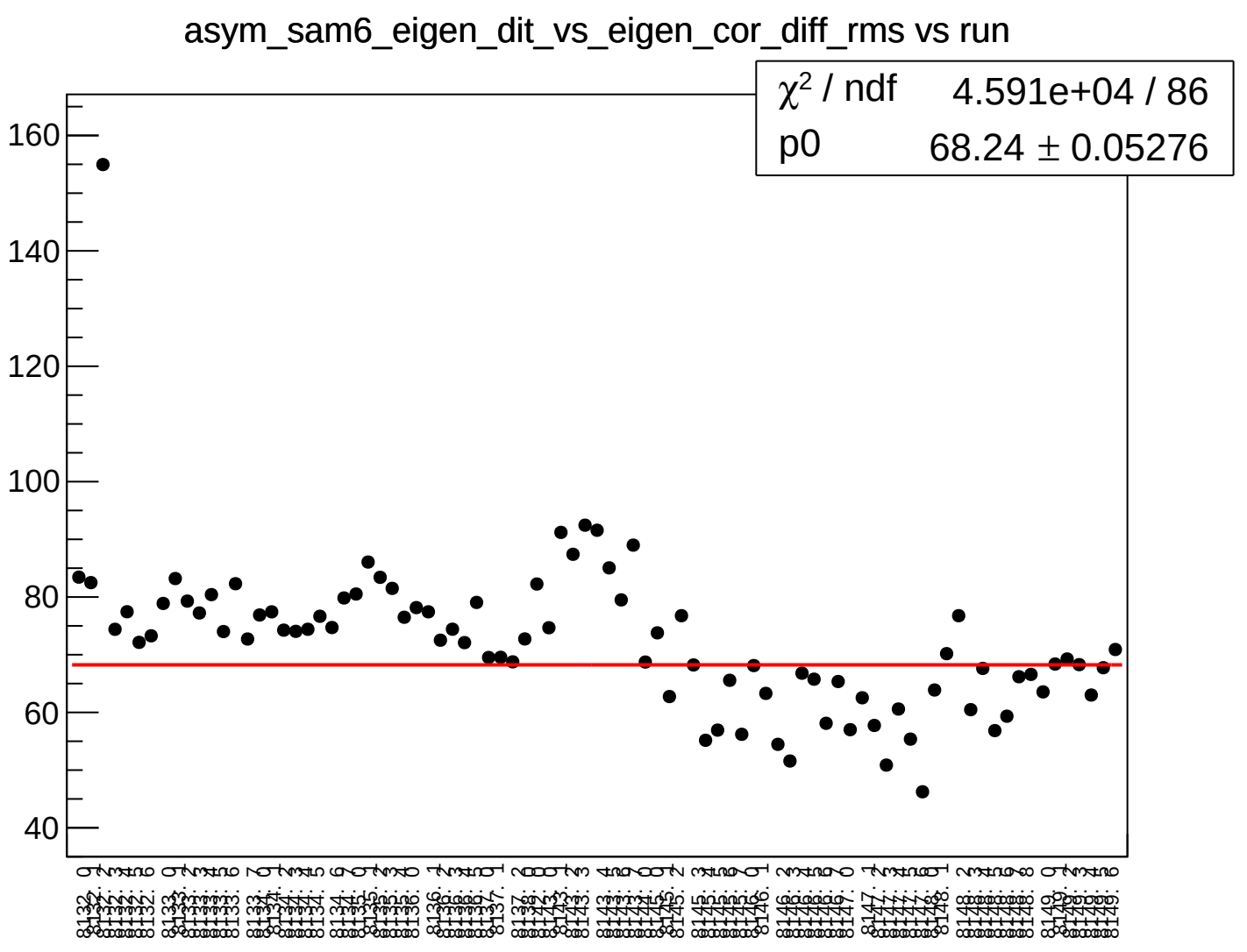

asym_sam6_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.883e+04 / 86
p0 0.001978 ± 1.517e−06
0.0026
0.0024
0.0022
0.002
0.0018
0.0016

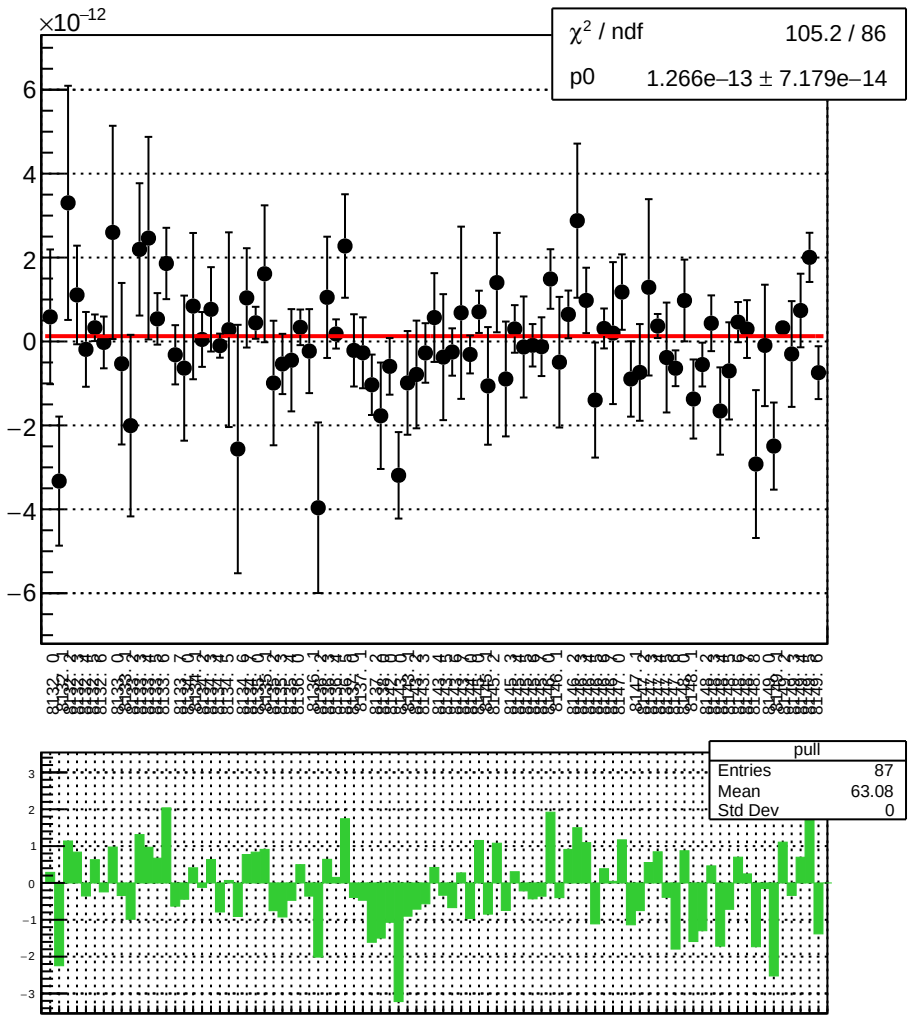

asym_sam6_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.05 / 86
p0 0.03947 ± 0.07461
pull
Entries 87
Mean −497.9
Std Dev 0
pull1D
Entries 87
Mean −0.01018
Std Dev 0.9471

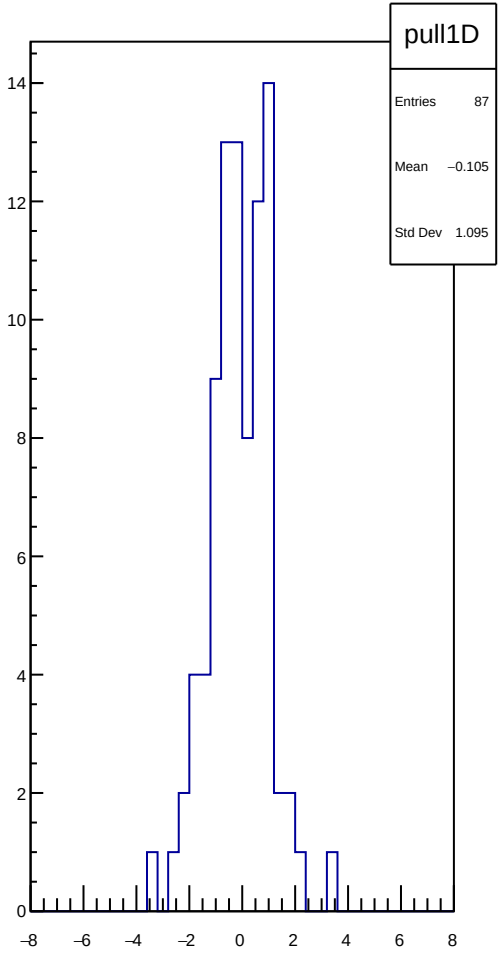

asym_sam6_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.591e+04 / 86
p0 68.24 ± 0.05276
160
140
120
100
80
60
40

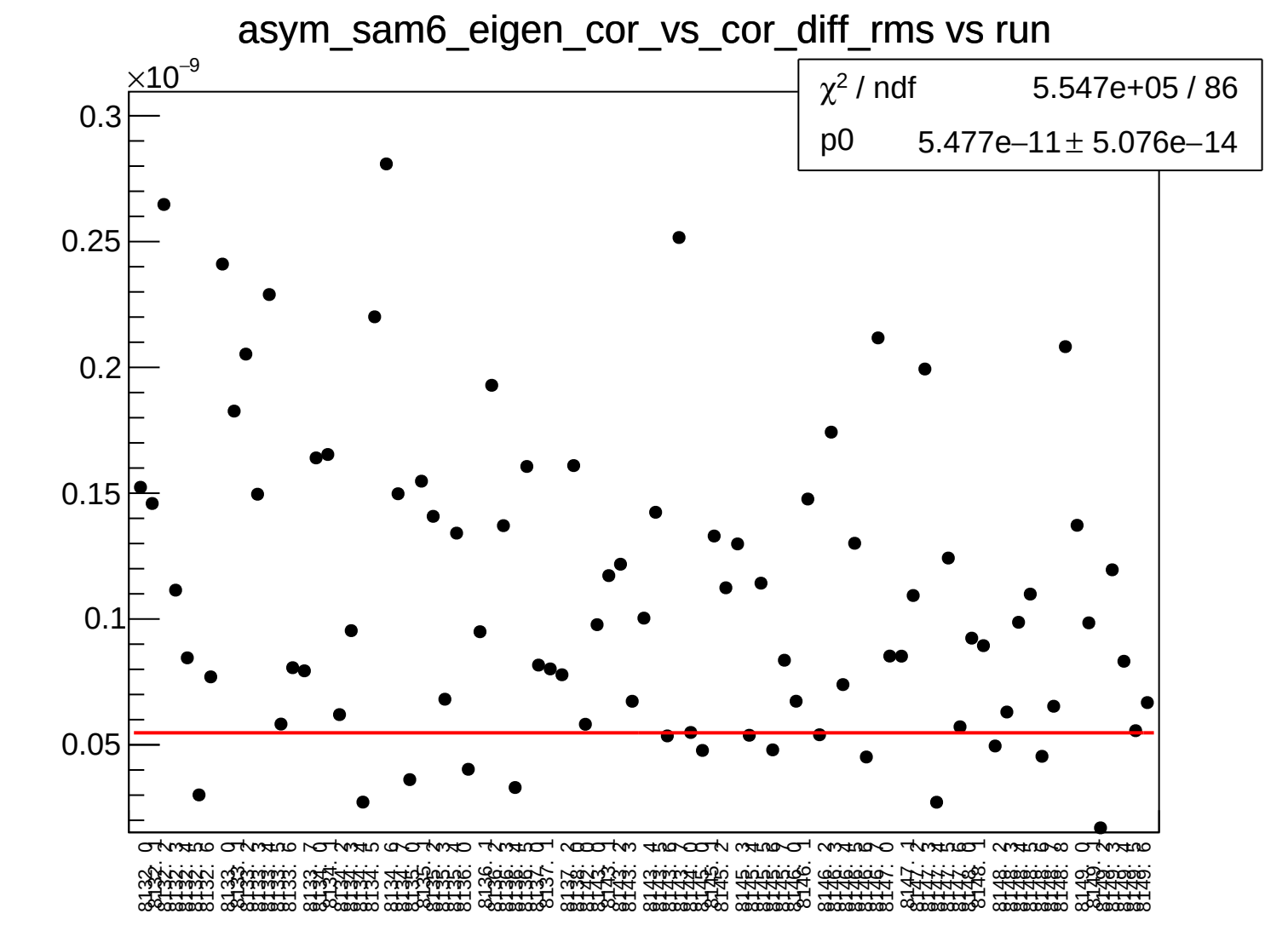

asym_sam6_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.05 / 86
p0 0.03947 ± 0.07461
pull
Entries 87
Mean −497.9
Std Dev 0

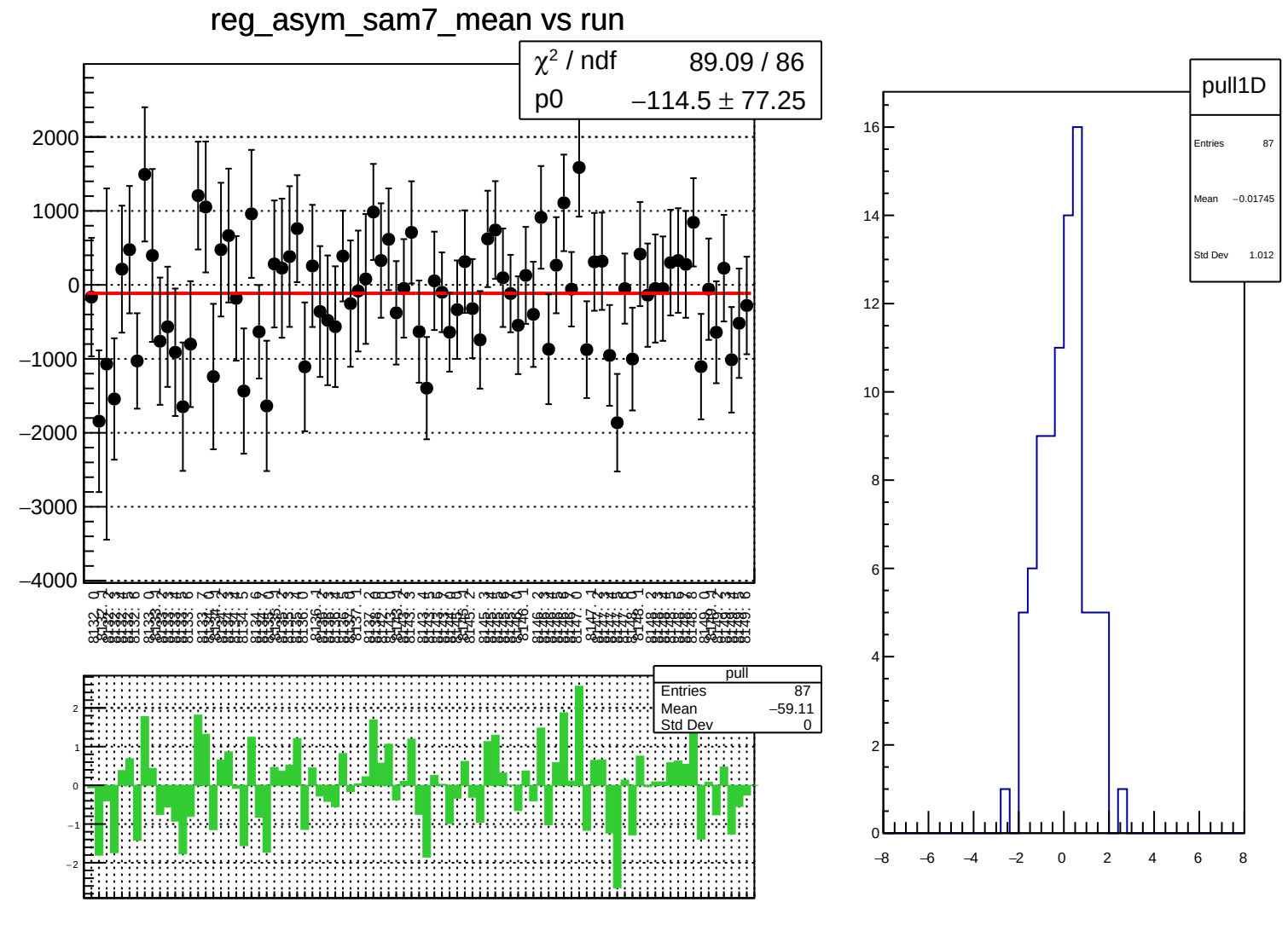

pull1D
Entries 87
Mean −0.01018
Std Dev 0.9471

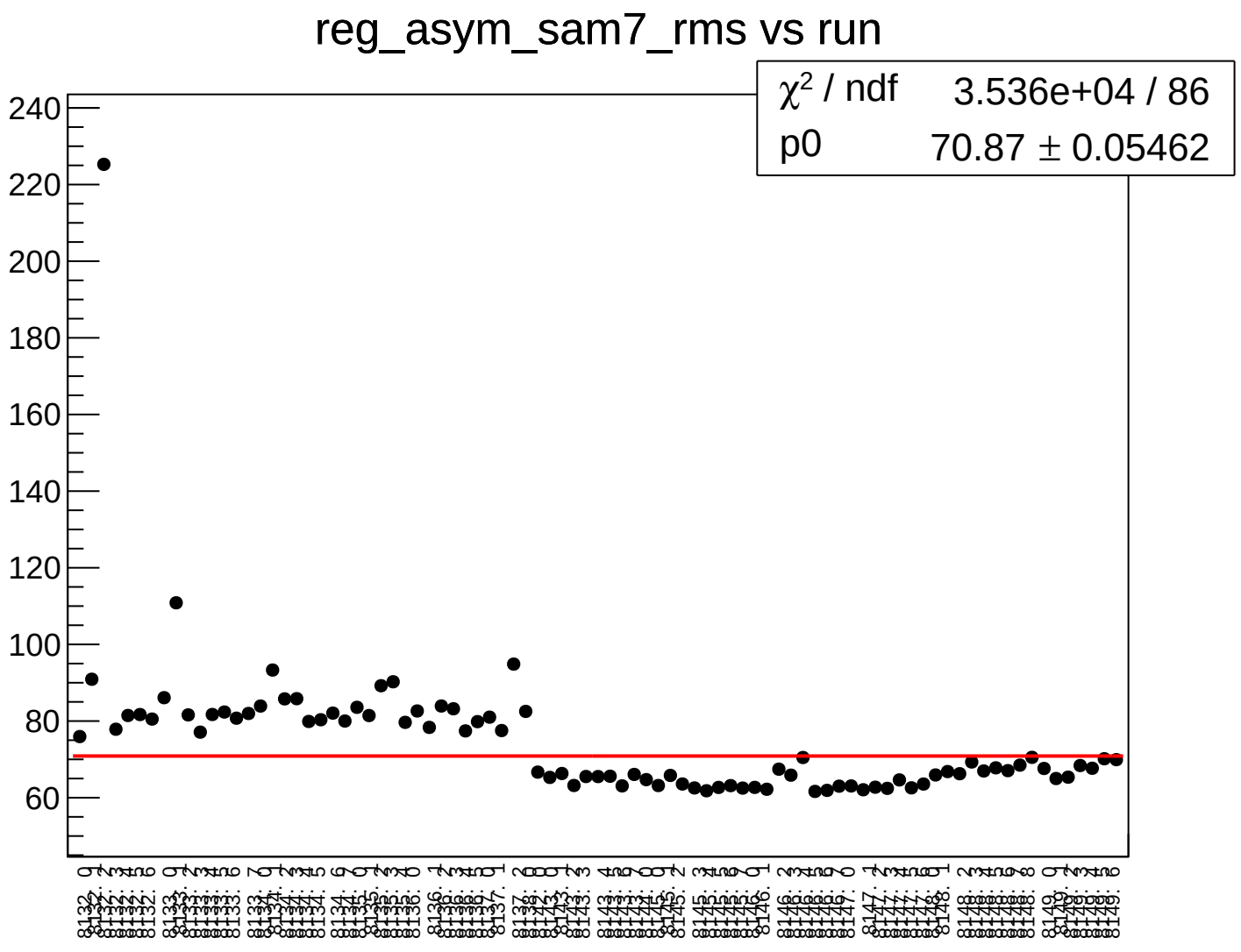

asym_sam6_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.591e+04 / 86
p0 68.24 ± 0.05276
160
140
120
100
80
60
40

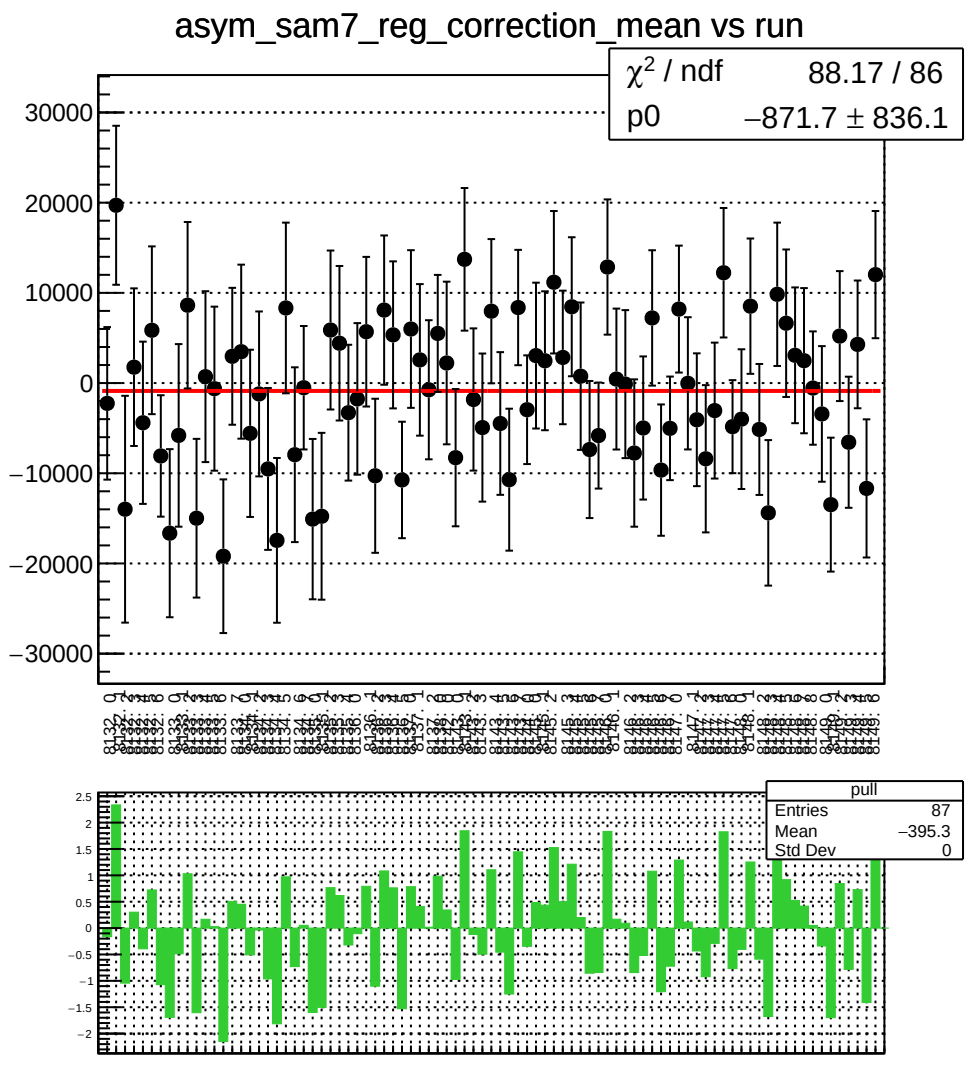

asym_sam6_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 105.2 / 86
p0 1.266e−13 ± 7.179e−14
pull
Entries 87
Mean 63.08
Std Dev 0

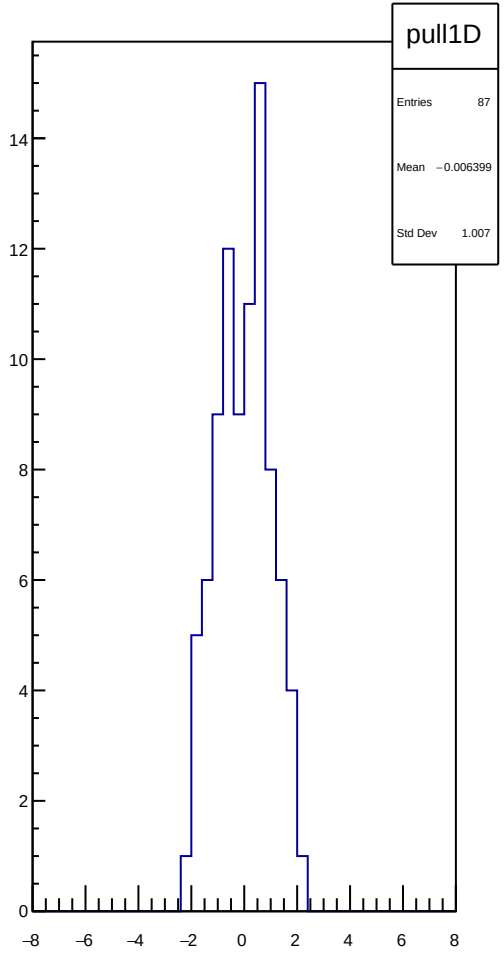

pull1D
Entries 87
Mean −0.105
Std Dev 1.095


asym_sam6_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.3
0.25
0.2
0.15
0.1
0.05
χ² / ndf 5.547e+05 / 86
p0 5.477e−11 ± 5.076e−14

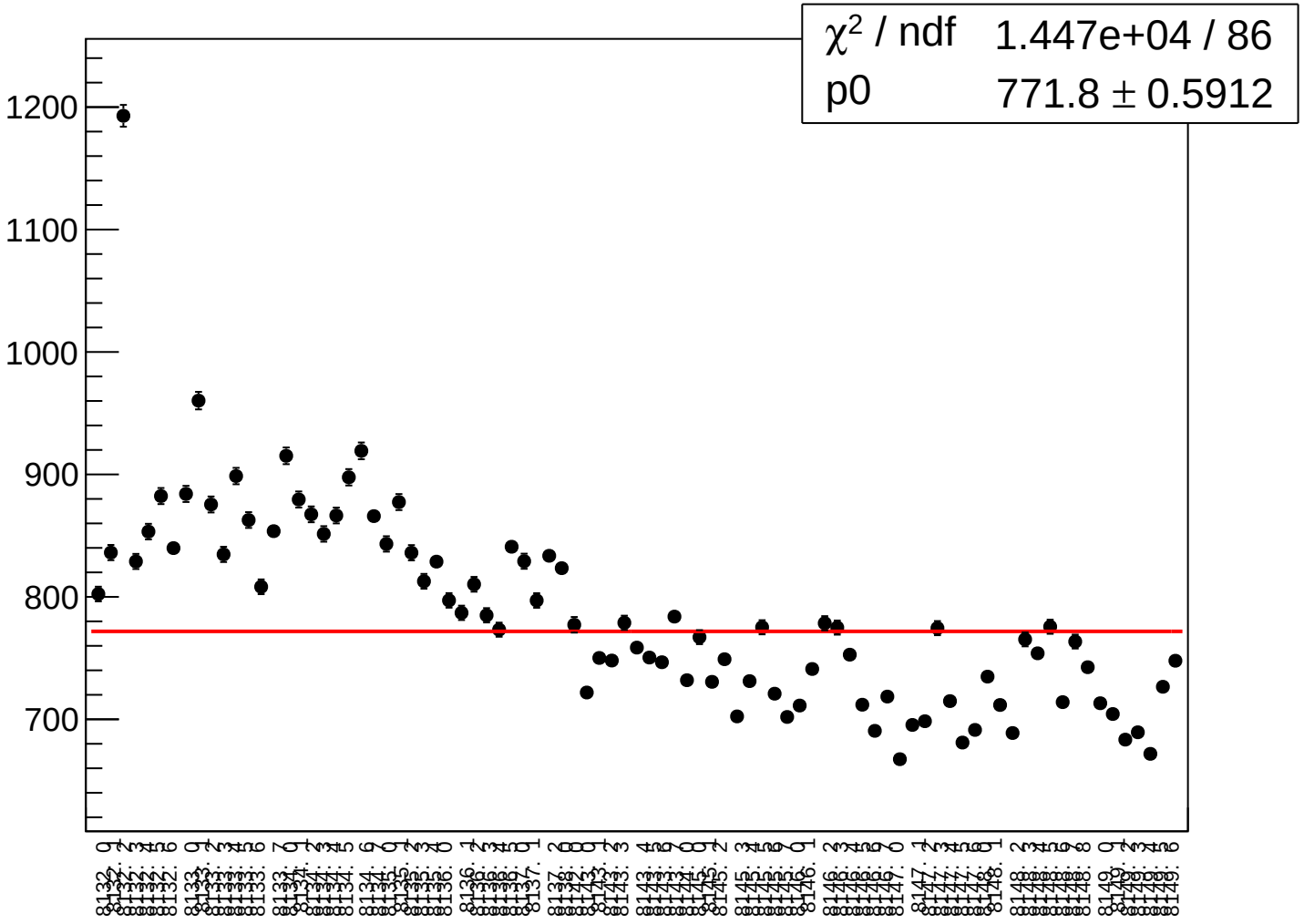

reg_asym_sam7_mean vs run
χ² / ndf 89.09 / 86
p0 −114.5 ± 77.25
pull
Entries 87
Mean −59.11
Std Dev 0
pull1D
Entries 87
Mean −0.01745
Std Dev 1.012

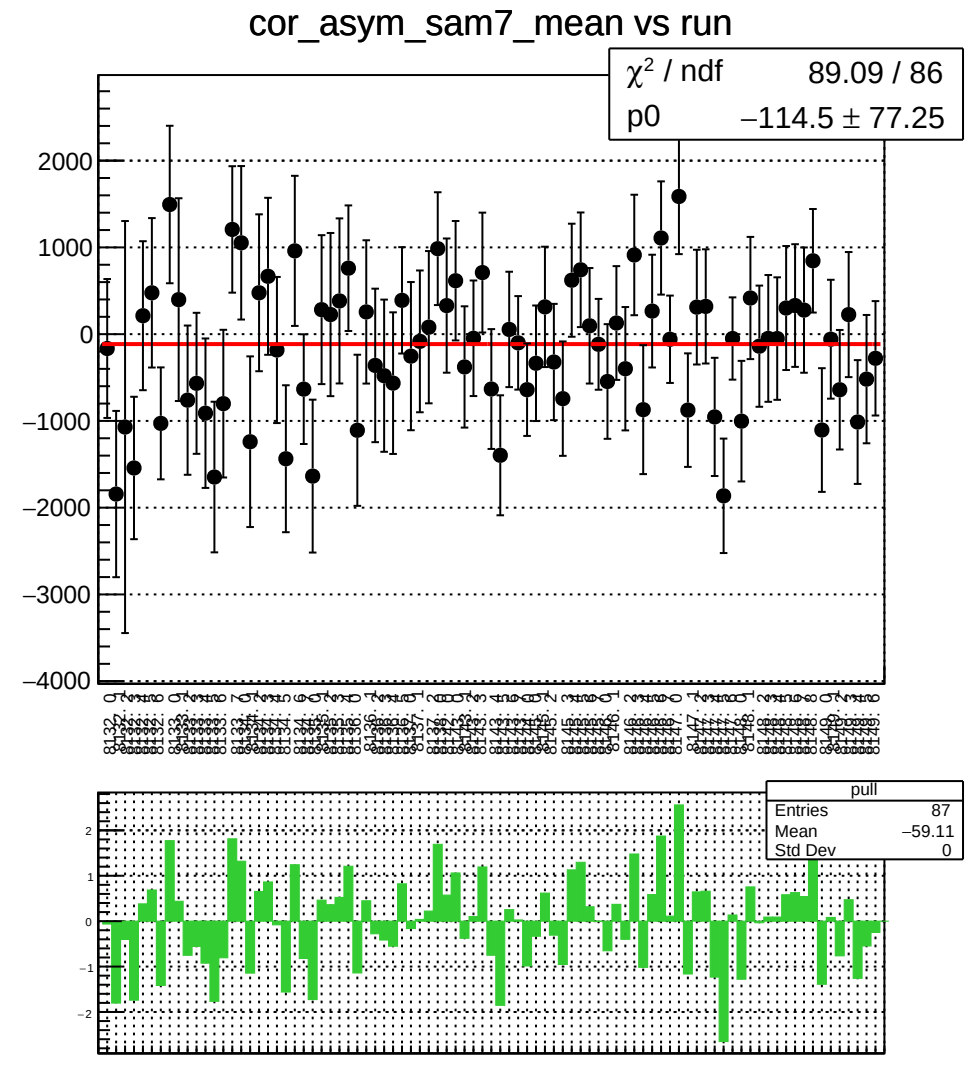

reg_asym_sam7_rms vs run
χ² / ndf 3.536e+04 / 86
p0 70.87 ± 0.05462
240
220
200
180
160
140
120
100
80
60

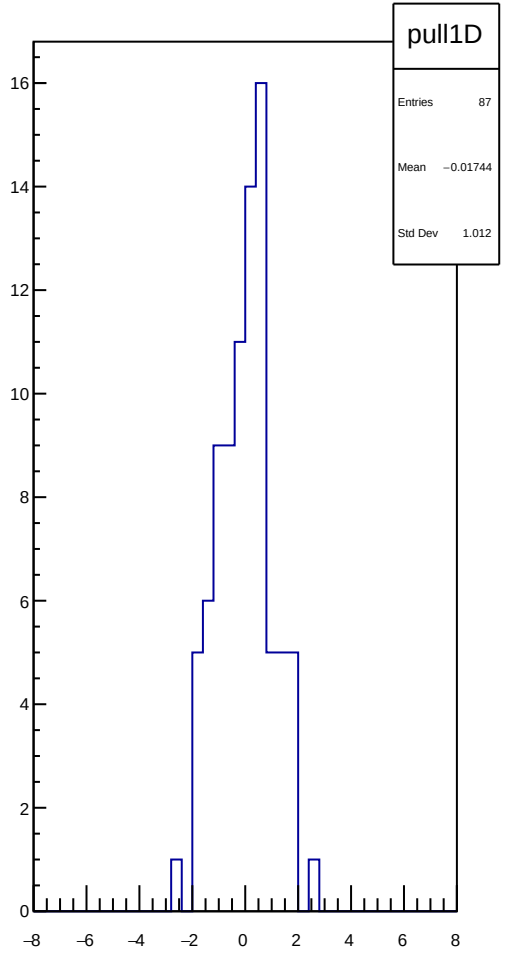

asym_sam7_reg_correction_mean vs run
χ² / ndf 88.17 / 86
p0 −871.7 ± 836.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean −395.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

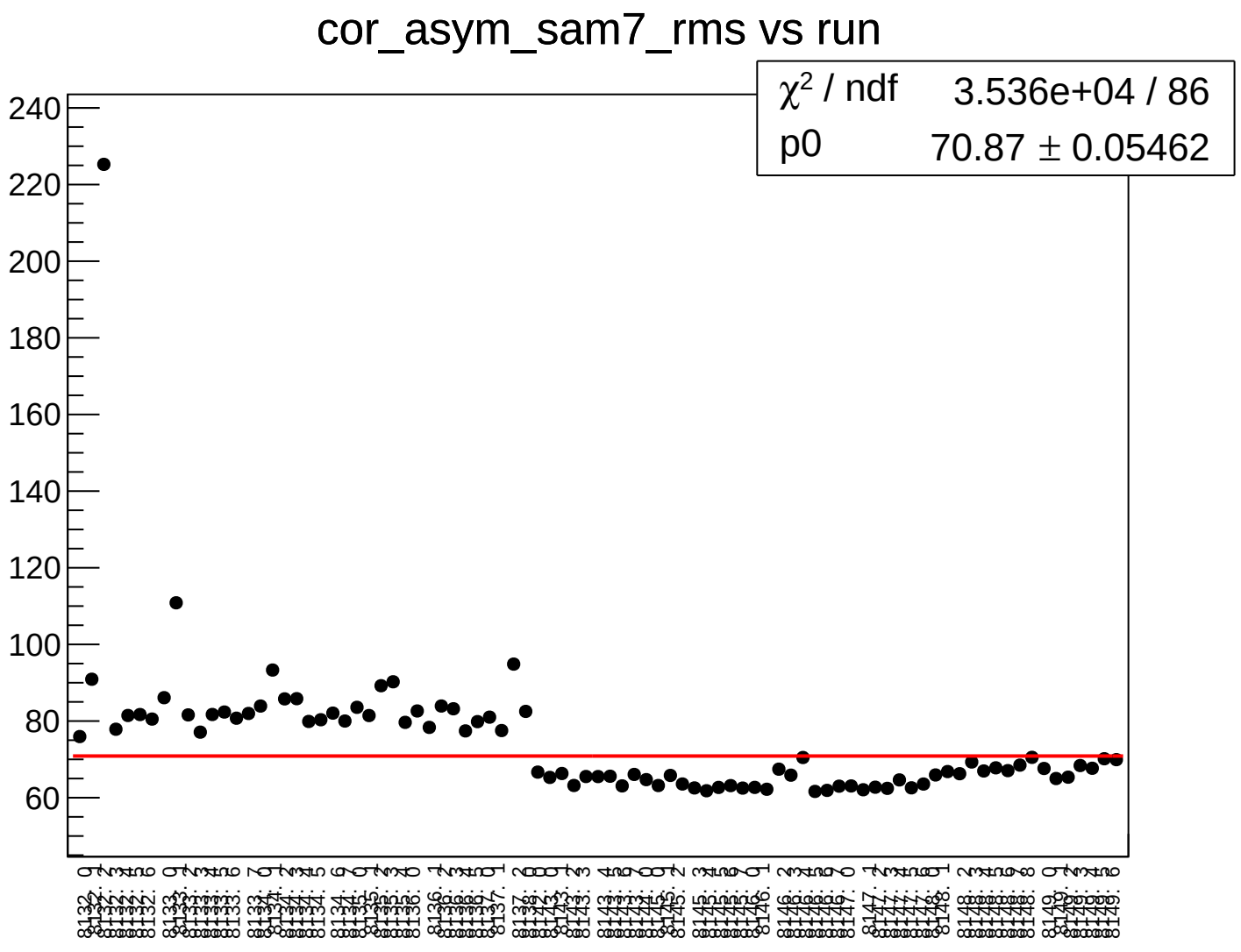

pull1D
Entries 87
Mean −0.006399
Std Dev 1.007
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

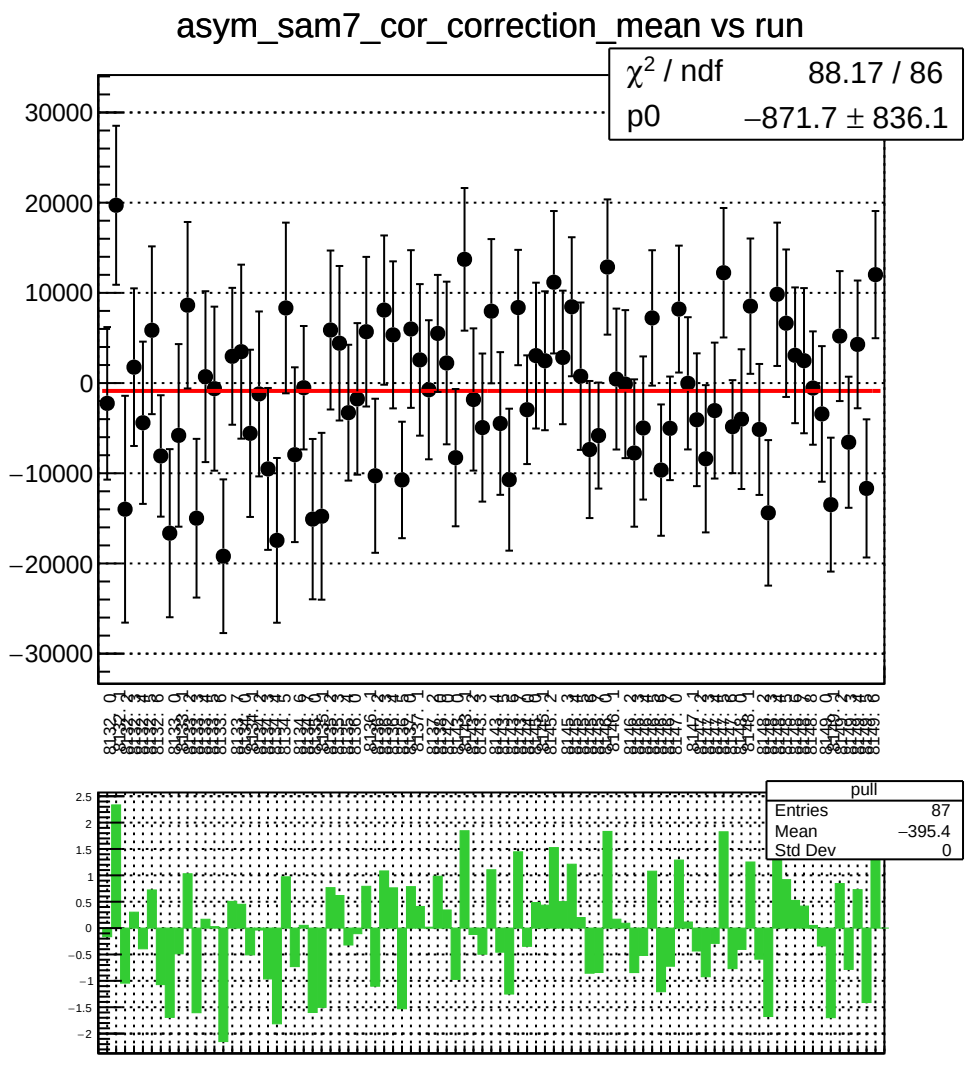
asym_sam7_reg_correction_rms vs run

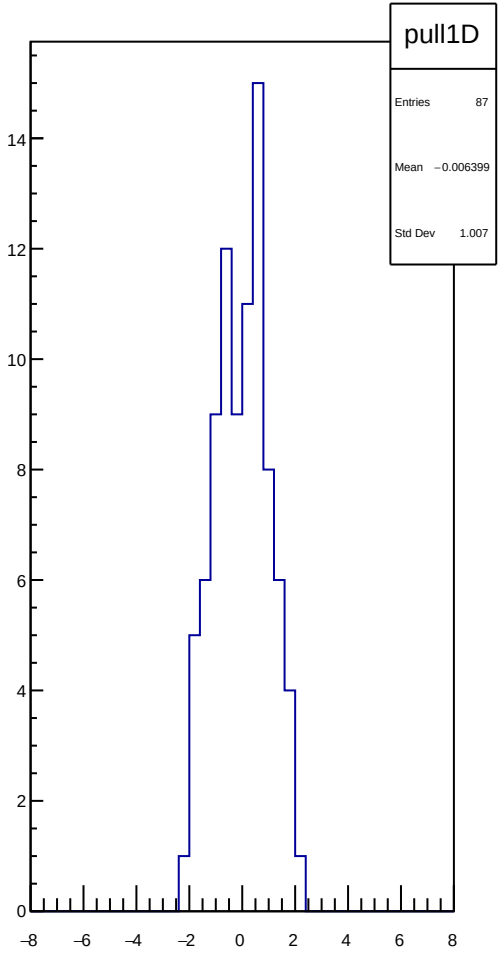


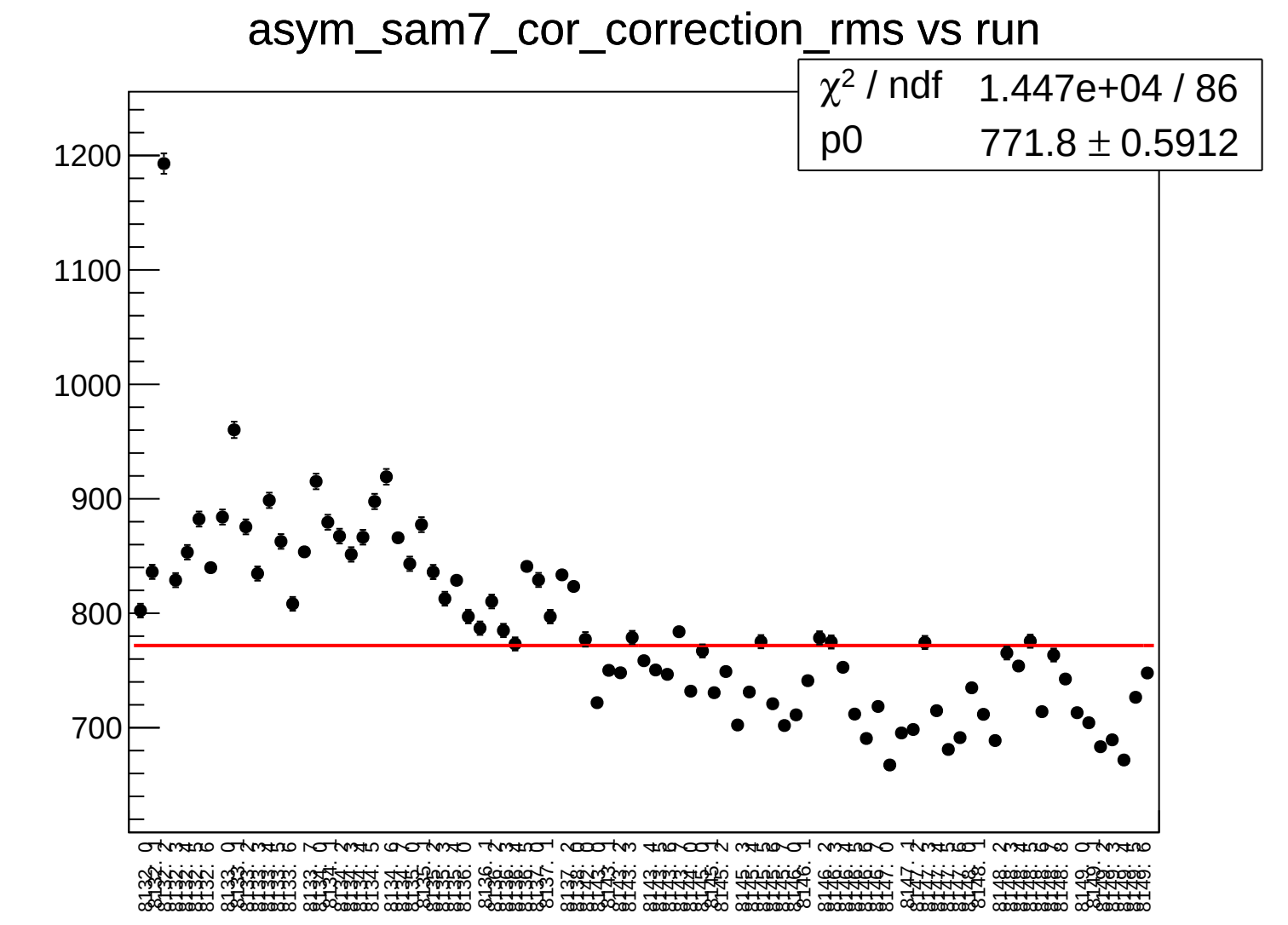

cor_asym_sam7_mean vs run
χ² / ndf 89.09 / 86
p0 −114.5 ± 77.25
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 87
Mean −59.11
Std Dev 0
2
1
0
−1
−2

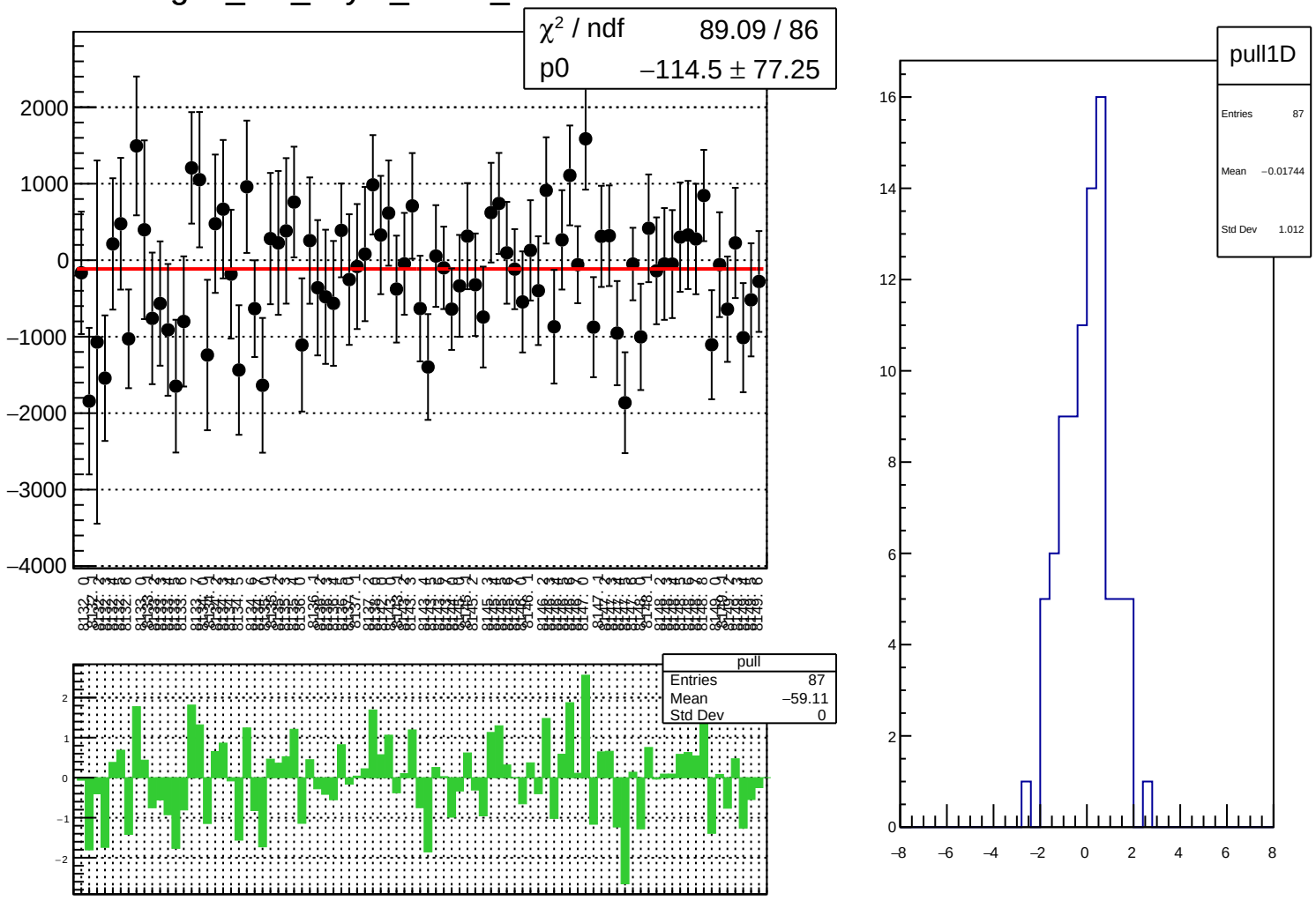

pull1D
Entries 87
Mean −0.01744
Std Dev 1.012
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

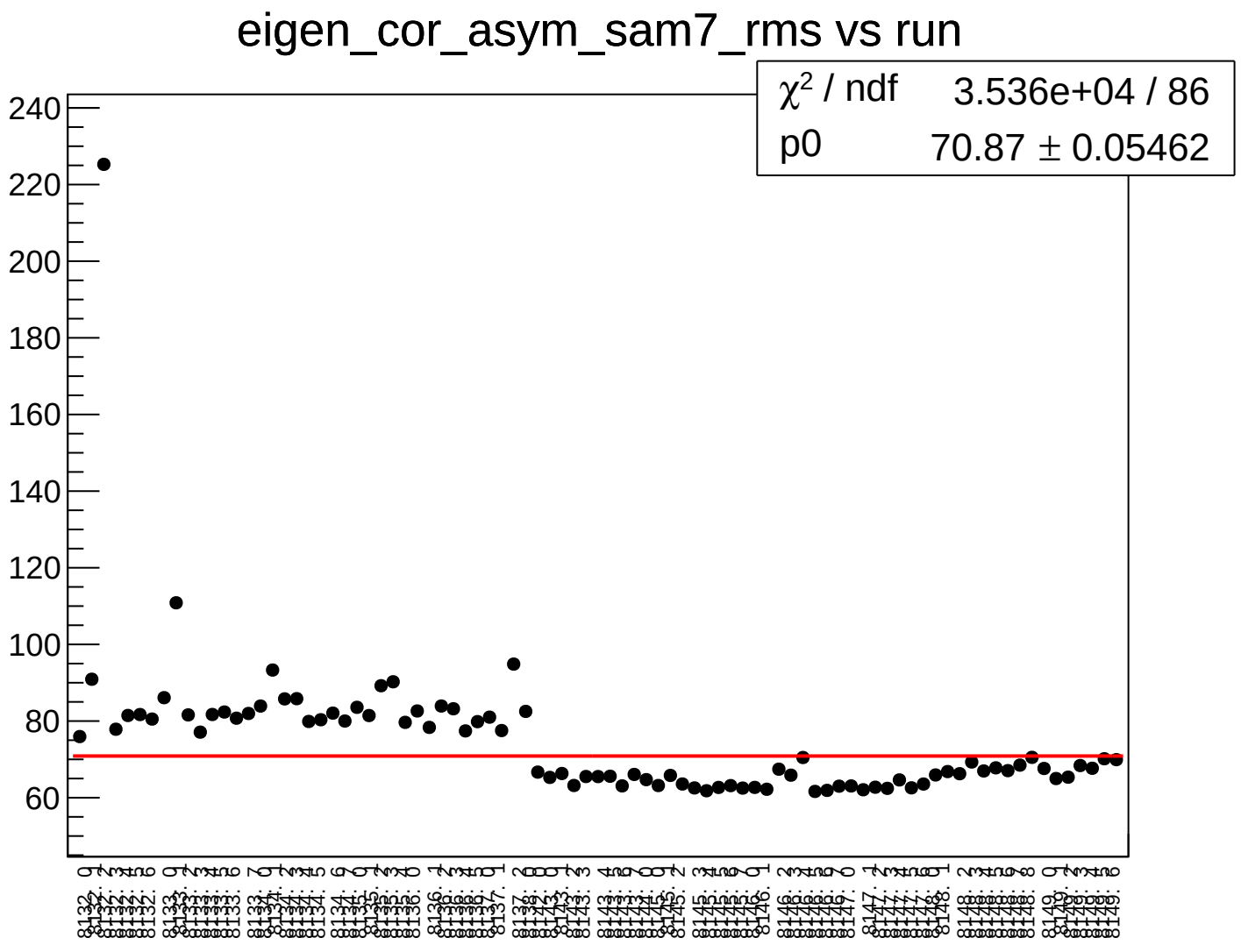

cor_asym_sam7_rms vs run
χ² / ndf 3.536e+04 / 86
p0 70.87 ± 0.05462
240
220
200
180
160
140
120
100
80
60

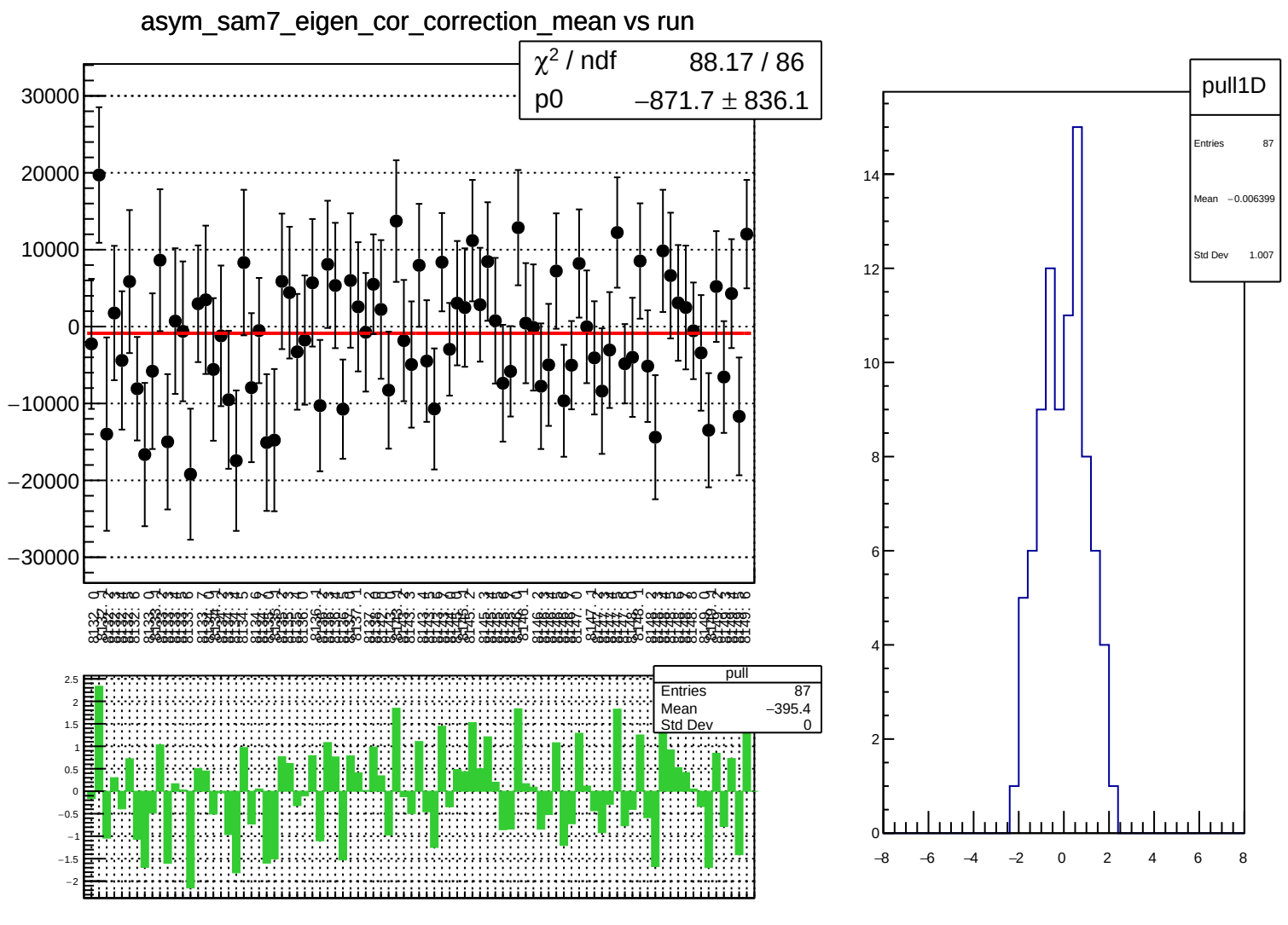

asym_sam7_cor_correction_mean vs run
χ² / ndf 88.17 / 86
p0 −871.7 ± 836.1
pull
Entries 87
Mean −395.4
Std Dev 0

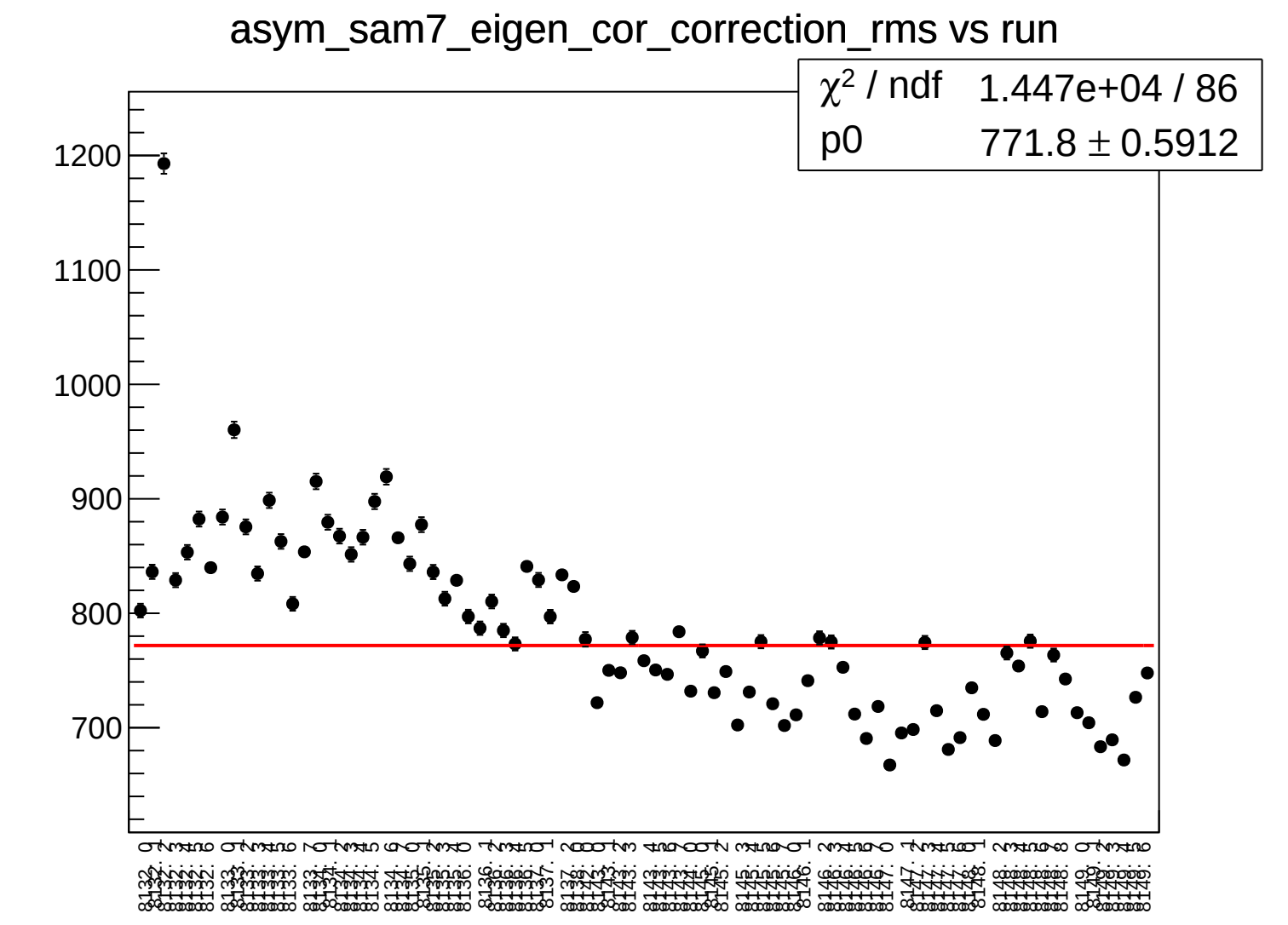

pull1D
Entries 87
Mean −0.006399
Std Dev 1.007

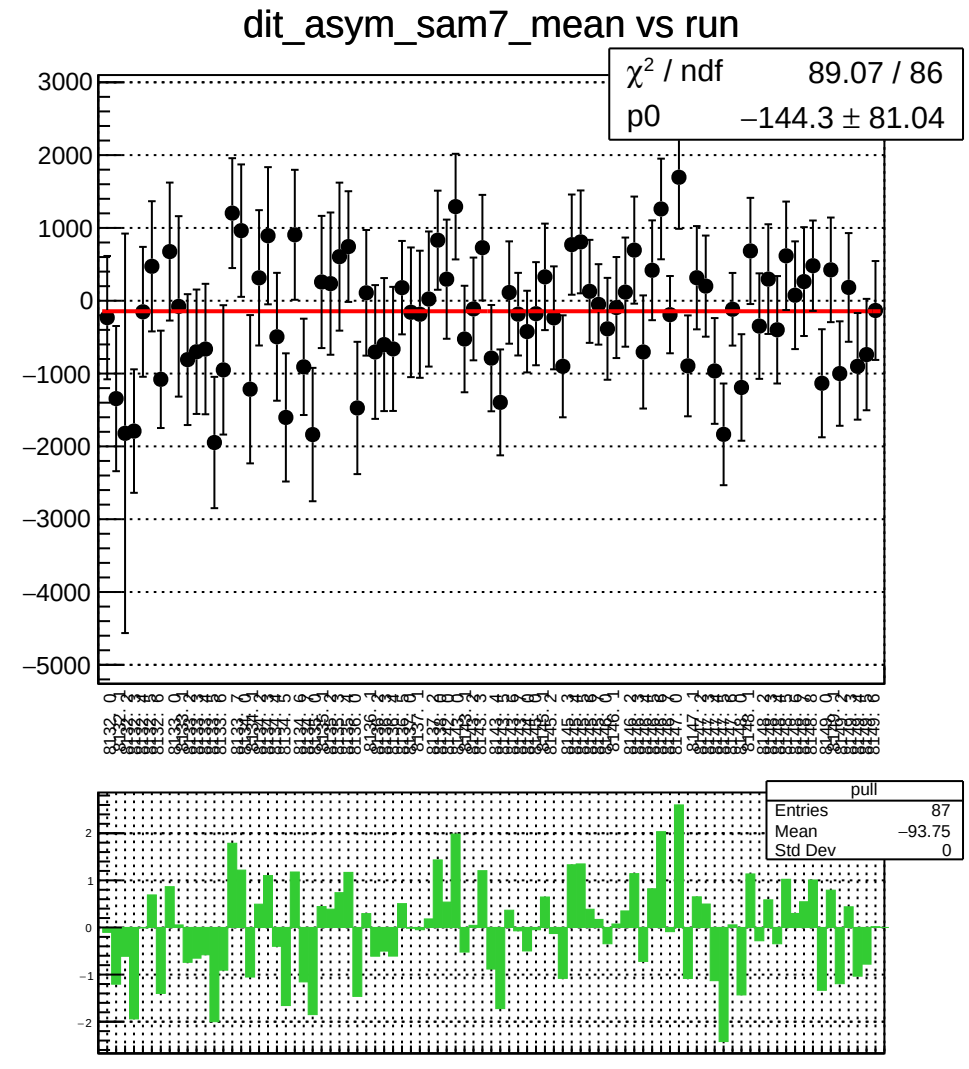

asym_sam7_cor_correction_rms vs run
χ² / ndf 1.447e+04 / 86
p0 771.8 ± 0.5912
1200
1100
1000
900
800
700

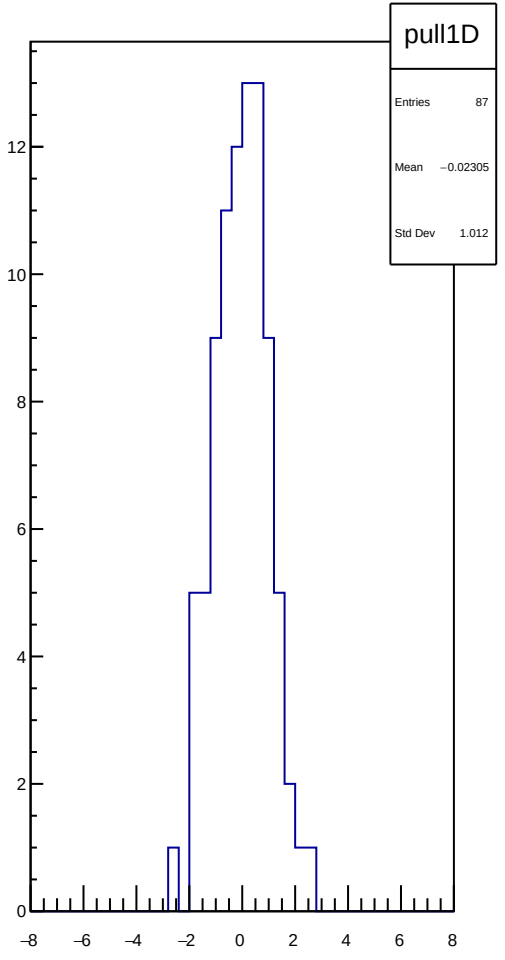

eigen_cor_asym_sam7_mean vs run
χ² / ndf 89.09 / 86
p0 −114.5 ± 77.25
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 87
Mean −59.11
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.01744
Std Dev 1.012
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

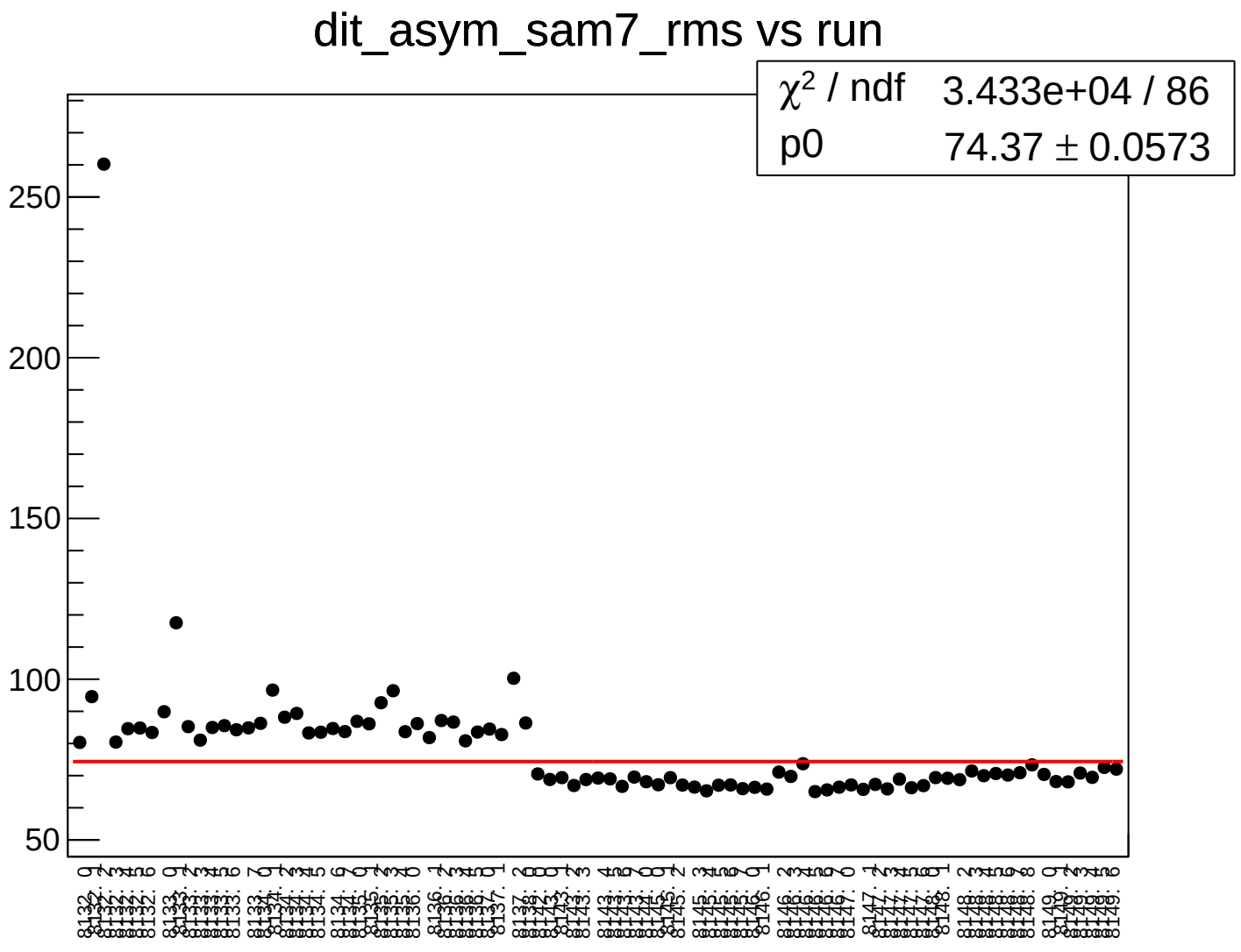

eigen_cor_asym_sam7_rms vs run
χ^2 / ndf 3.536e+04 / 86
p0 70.87 ± 0.05462
240
220
200
180
160
140
120
100
80
60

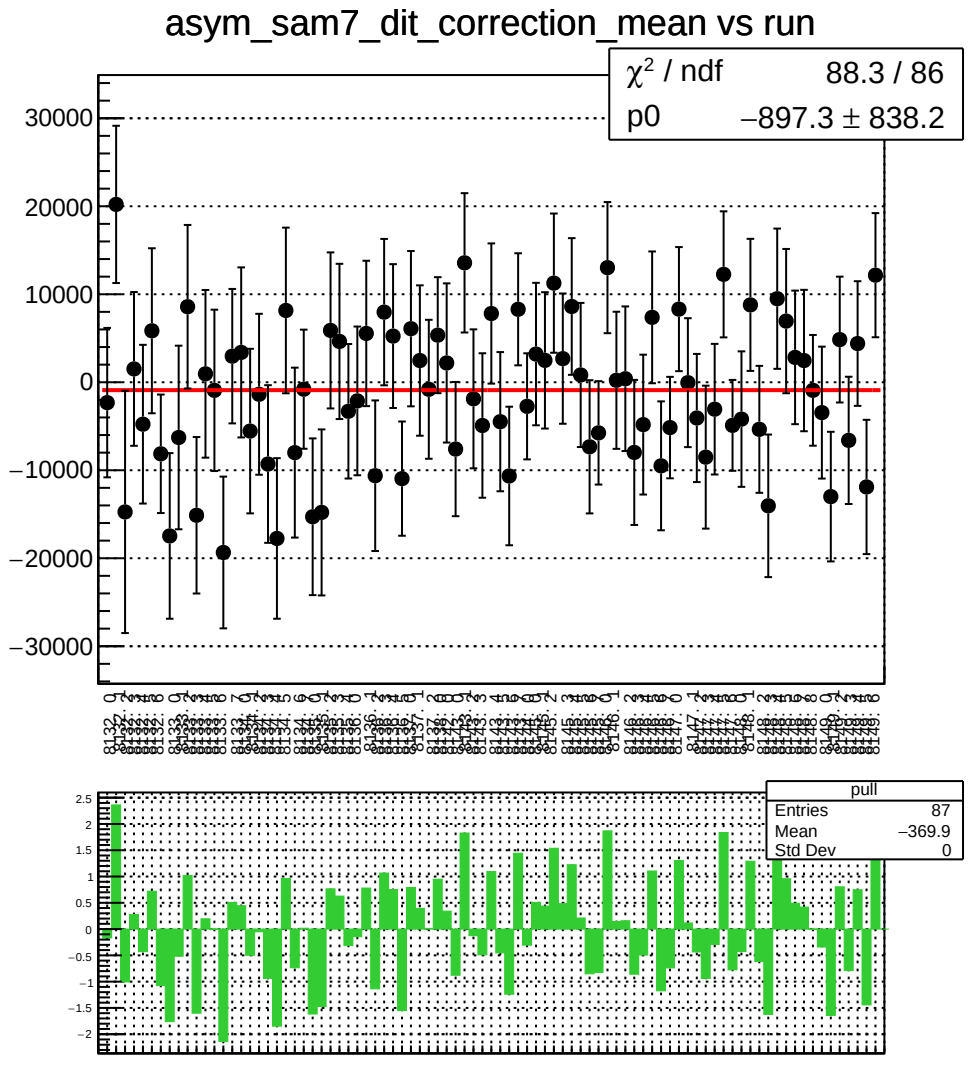

asym_sam7_eigen_cor_correction_mean vs run
χ² / ndf 88.17 / 86
p0 −871.7 ± 836.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean −395.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 87
Mean −0.006399
Std Dev 1.007
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

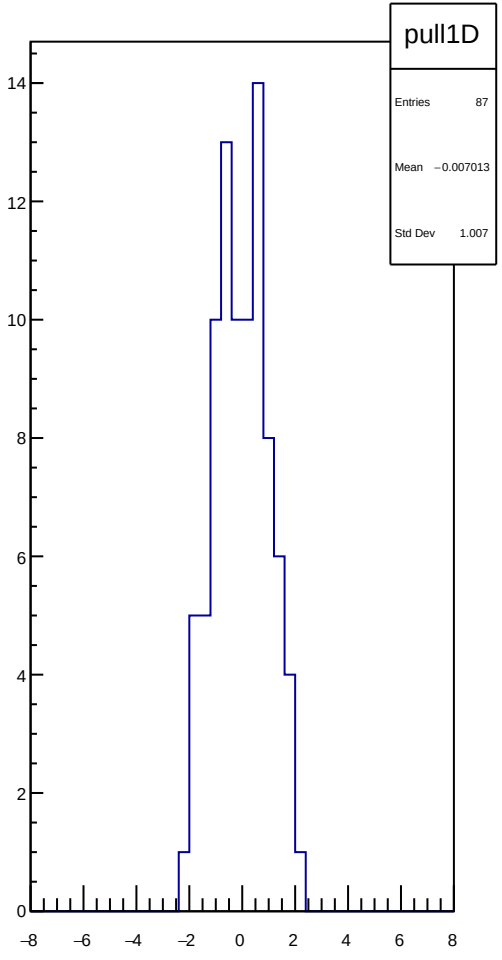

asym_sam7_eigen_cor_correction_rms vs run
χ² / ndf 1.447e+04 / 86
p0 771.8 ± 0.5912
1200
1100
1000
900
800
700

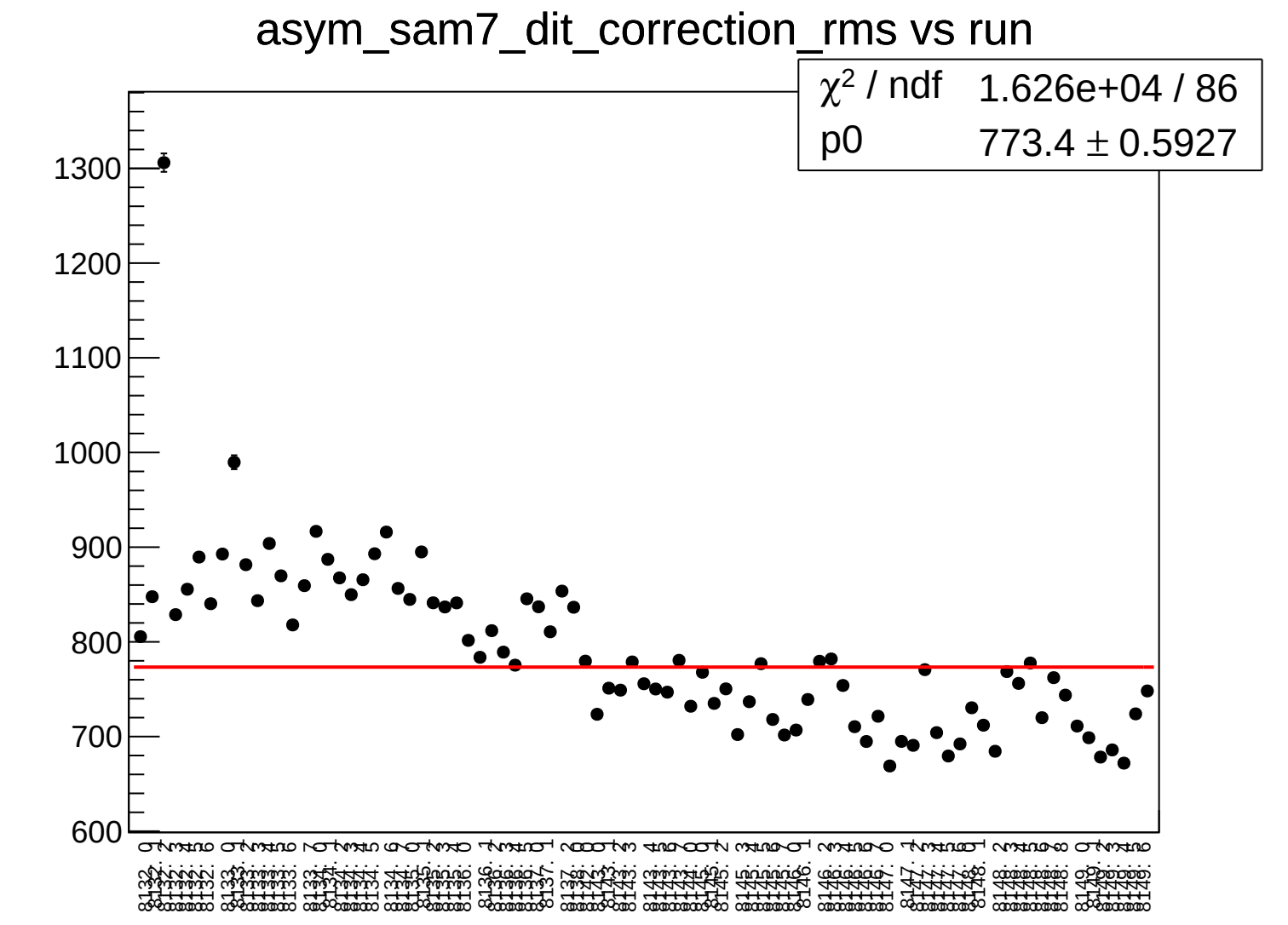

dit_asym_sam7_mean vs run
χ² / ndf 89.07 / 86
p0 −144.3 ± 81.04
pull
Entries 87
Mean −93.75
Std Dev 0

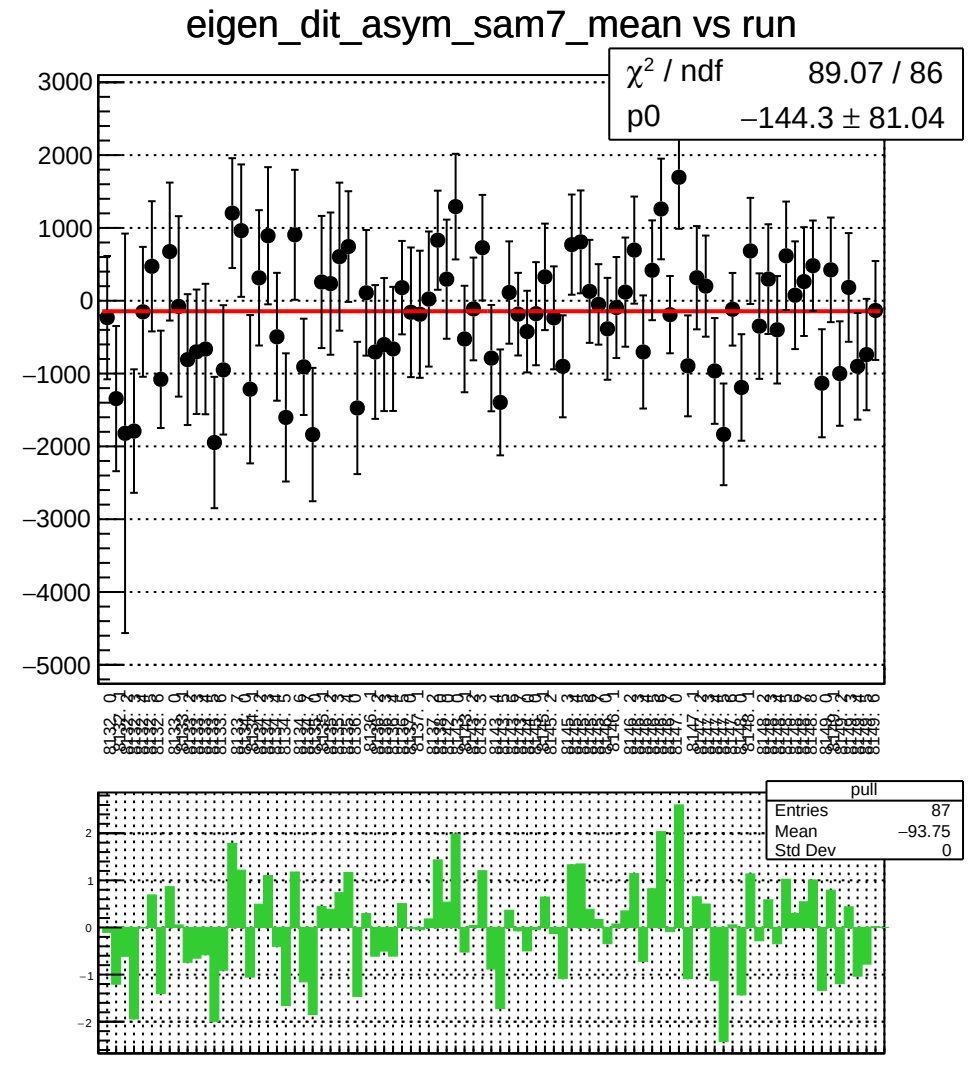

pull1D
Entries 87
Mean −0.02305
Std Dev 1.012

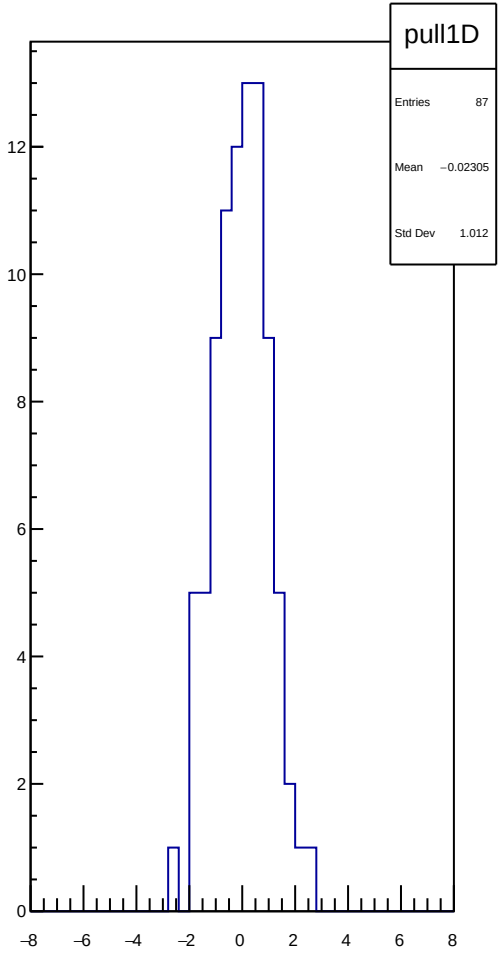

dit_asym_sam7_rms vs run
χ² / ndf 3.433e+04 / 86
p0 74.37 ± 0.0573
250
200
150
100
50

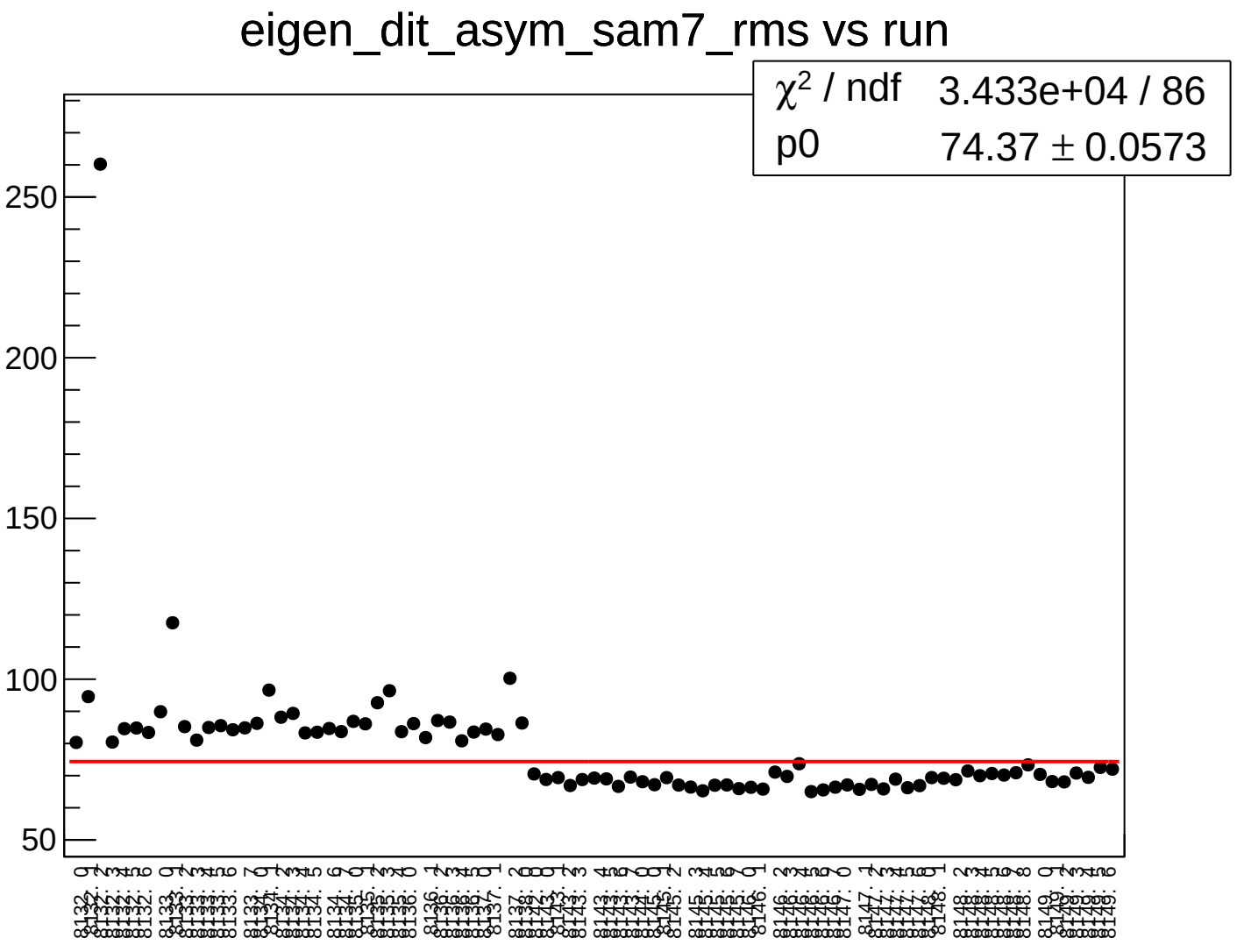

asym_sam7_dit_correction_mean vs run
χ² / ndf 88.3 / 86
p0 −897.3 ± 838.2
pull
Entries 87
Mean −369.9
Std Dev 0

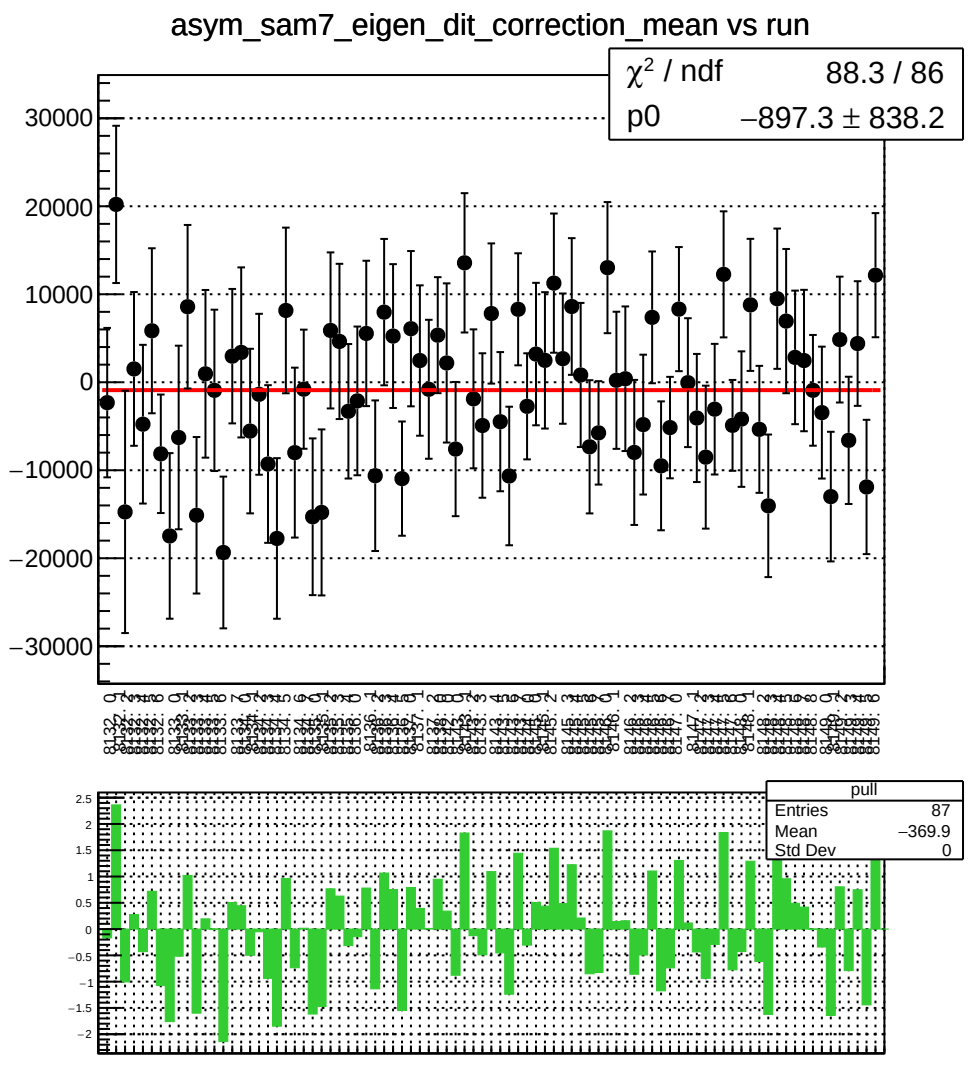

pull1D
Entries 87
Mean −0.007013
Std Dev 1.007

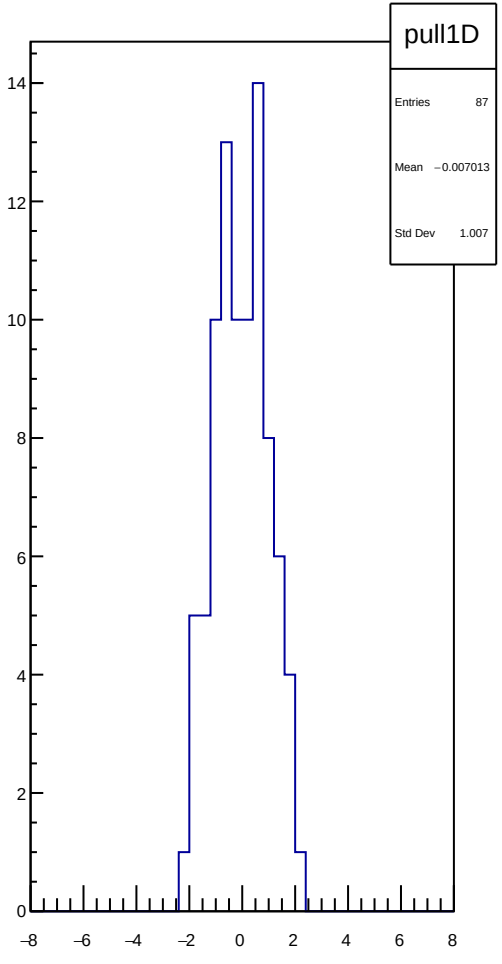

asym_sam7_dit_correction_rms vs run
χ² / ndf 1.626e+04 / 86
p0 773.4 ± 0.5927
1300
1200
1100
1000
900
800
700
600

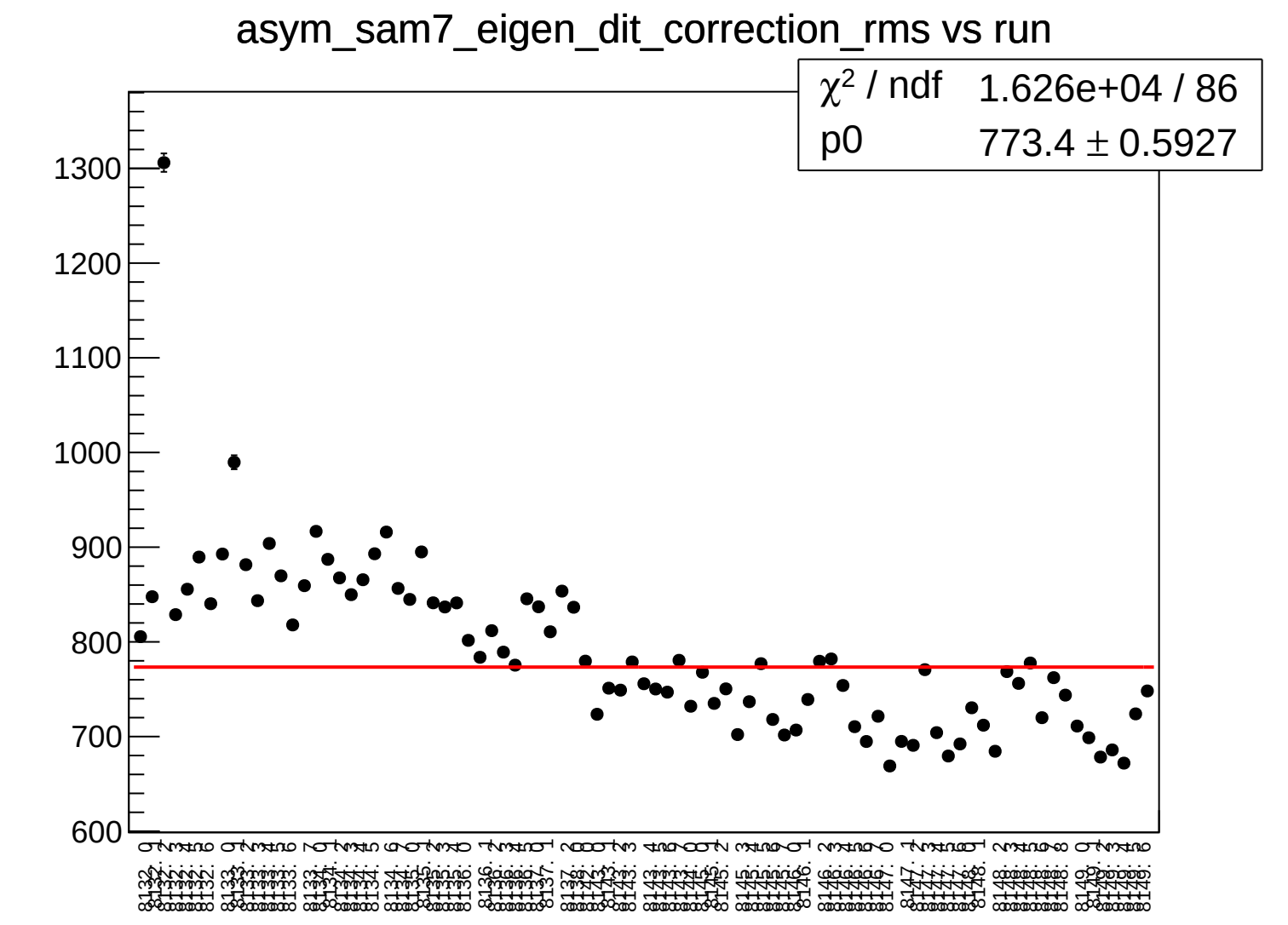

eigen_dit_asym_sam7_mean vs run
χ² / ndf 89.07 / 86
p0 −144.3 ± 81.04
pull
Entries 87
Mean −93.75
Std Dev 0

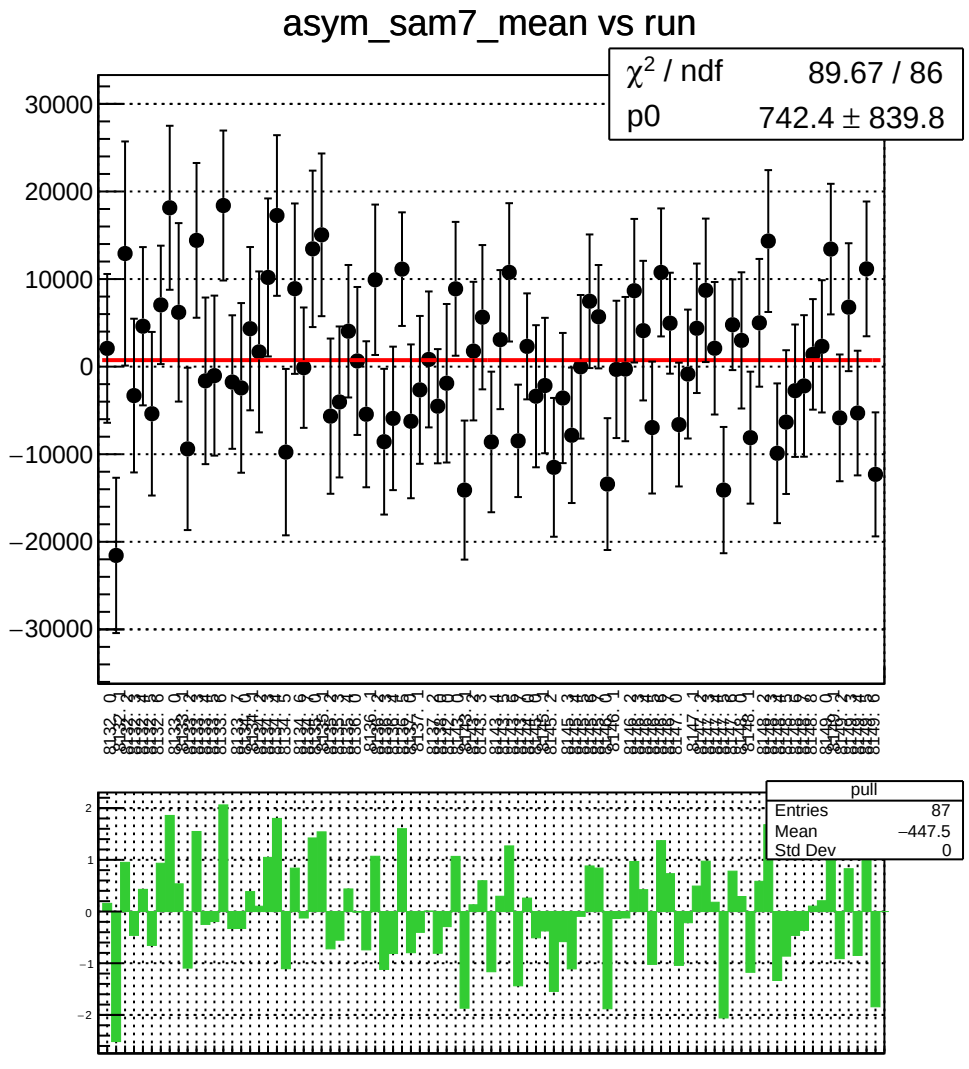

pull1D
Entries 87
Mean −0.02305
Std Dev 1.012

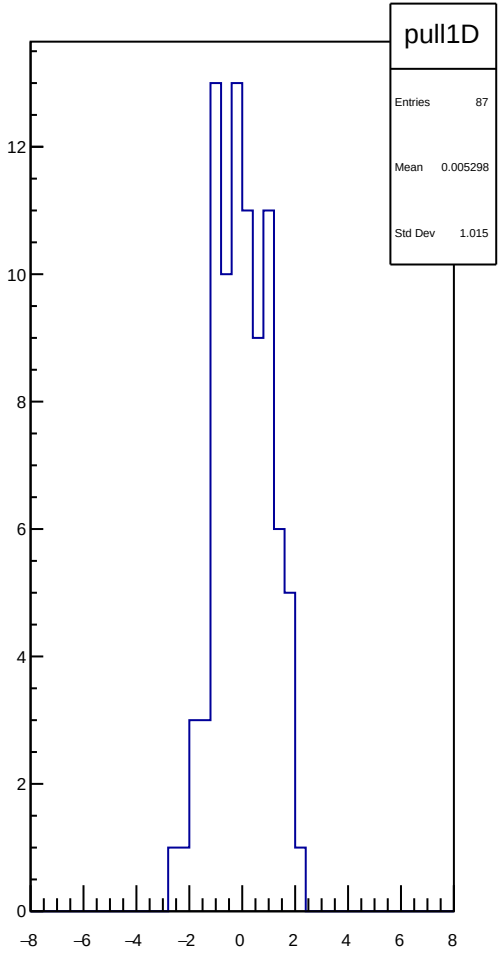

eigen_dit_asym_sam7_rms vs run
χ² / ndf 3.433e+04 / 86
p0 74.37 ± 0.0573
250
200
150
100
50

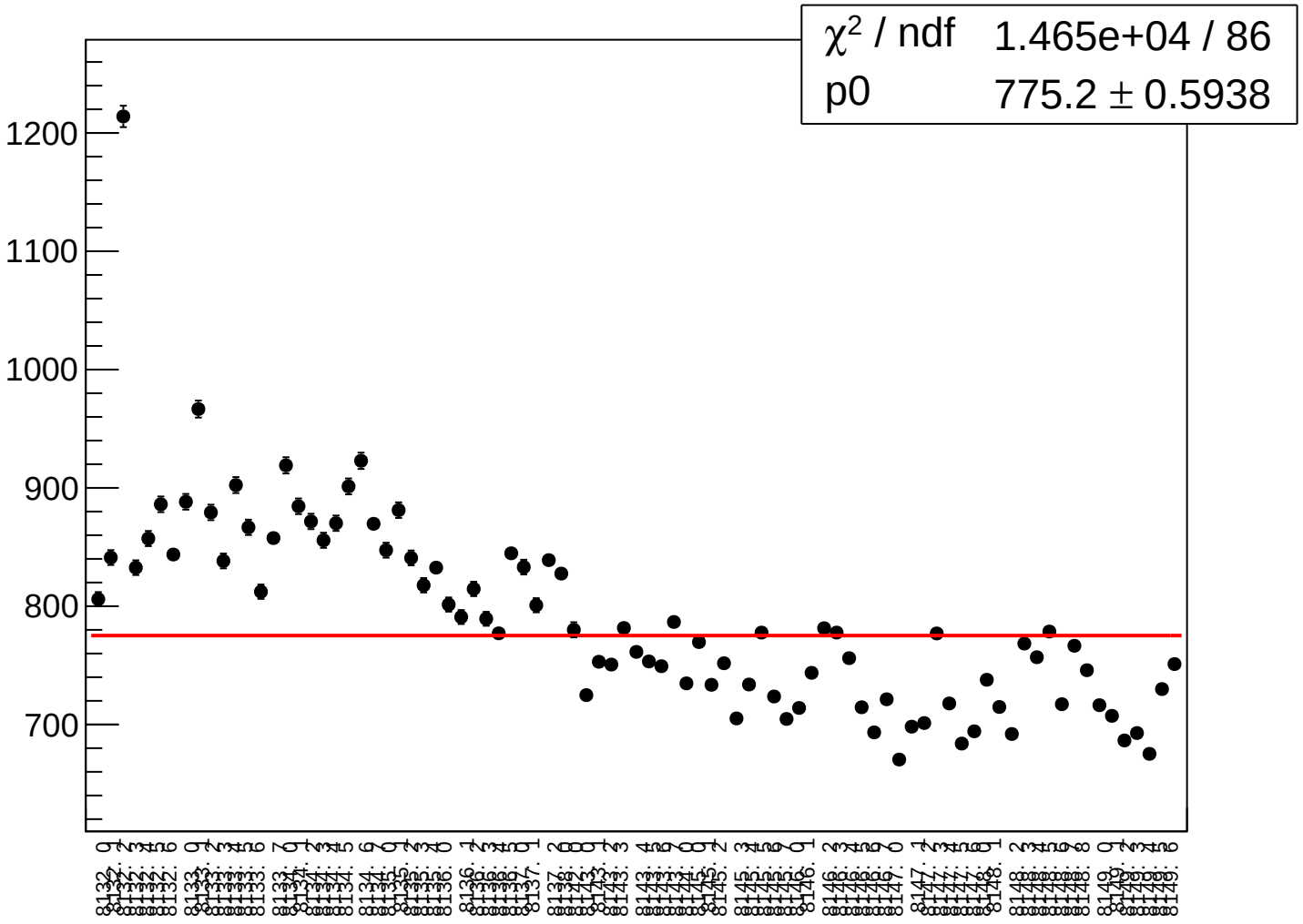

asym_sam7_eigen_dit_correction_mean vs run
χ² / ndf 88.3 / 86
p0 −897.3 ± 838.2
pull
Entries 87
Mean −369.9
Std Dev 0

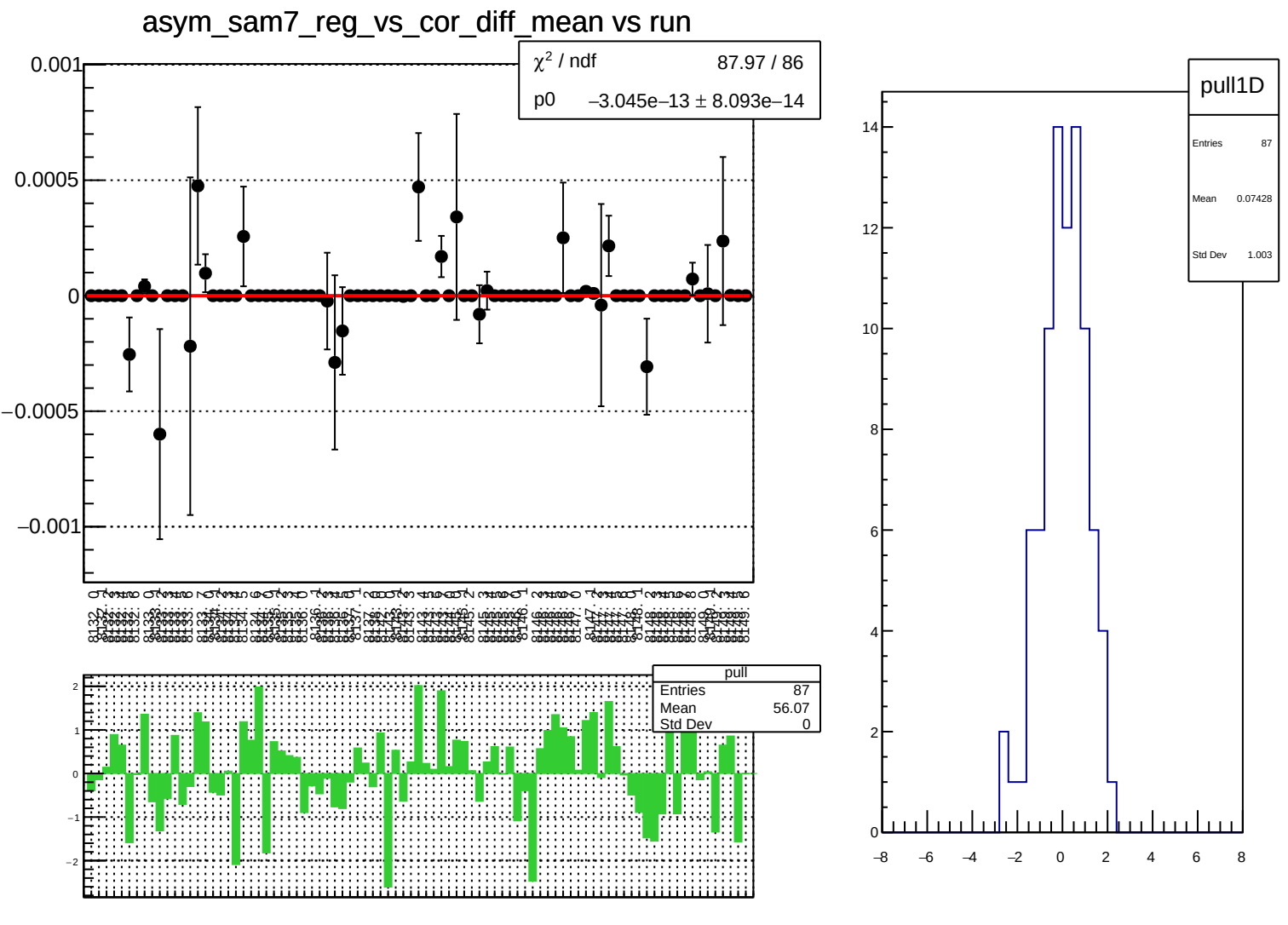

pull1D
Entries 87
Mean −0.007013
Std Dev 1.007

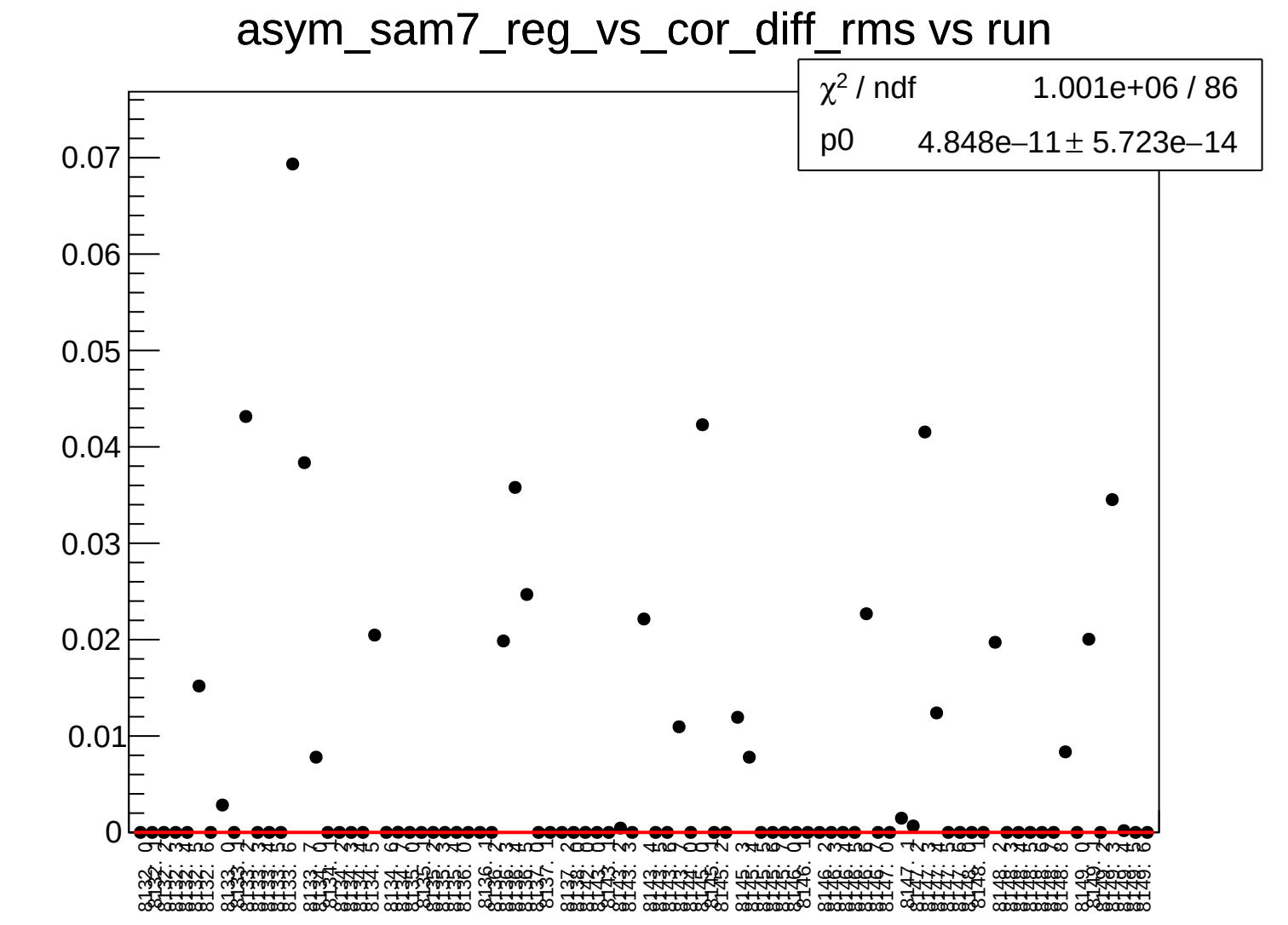

asym_sam7_eigen_dit_correction_rms vs run
χ² / ndf 1.626e+04 / 86
p0 773.4 ± 0.5927
1300
1200
1100
1000
900
800
700
600

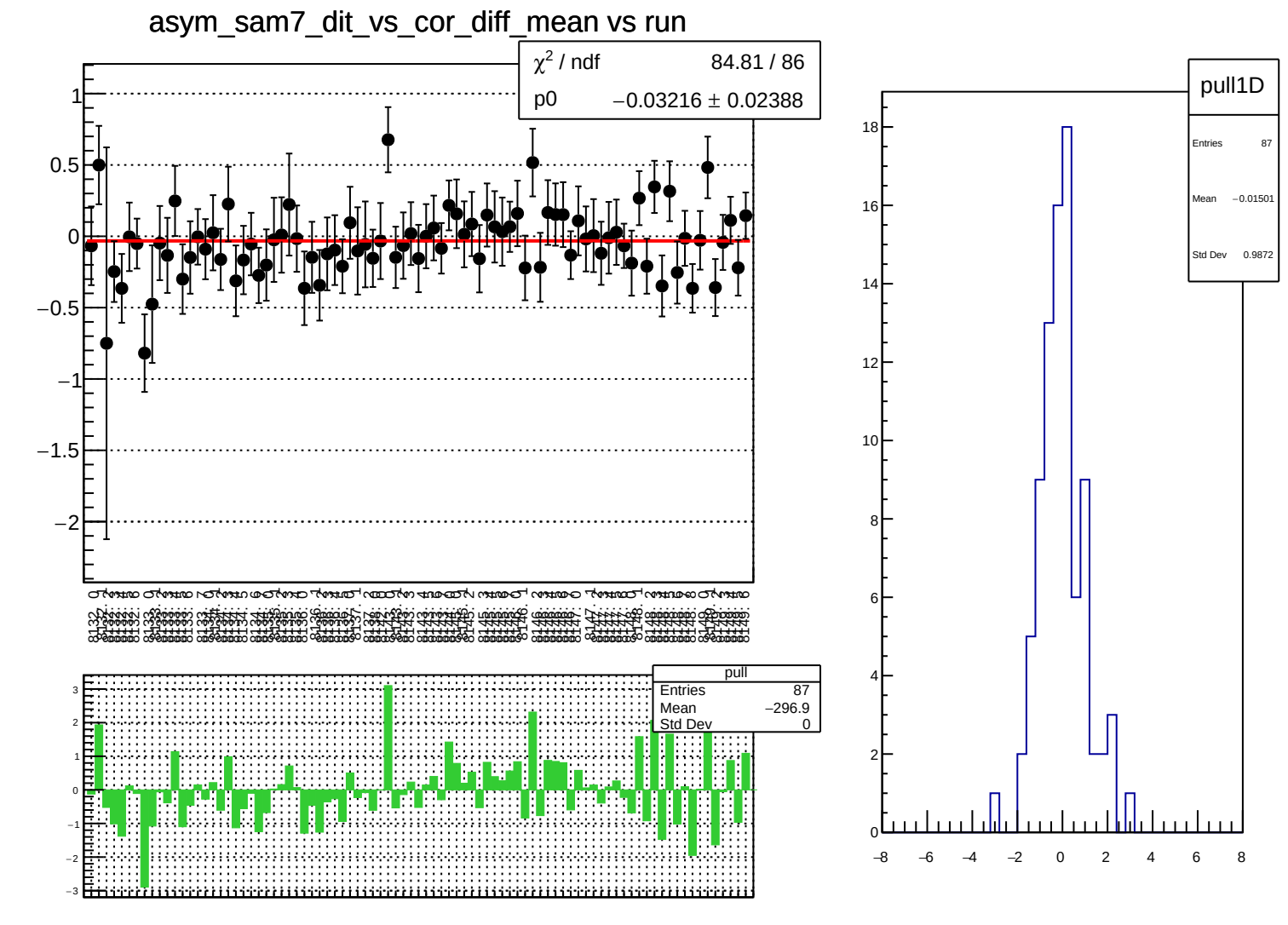

asym_sam7_mean vs run
χ² / ndf 89.67 / 86
p0 742.4 ± 839.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean −447.5
Std Dev 0
2
1
0
−1
−2

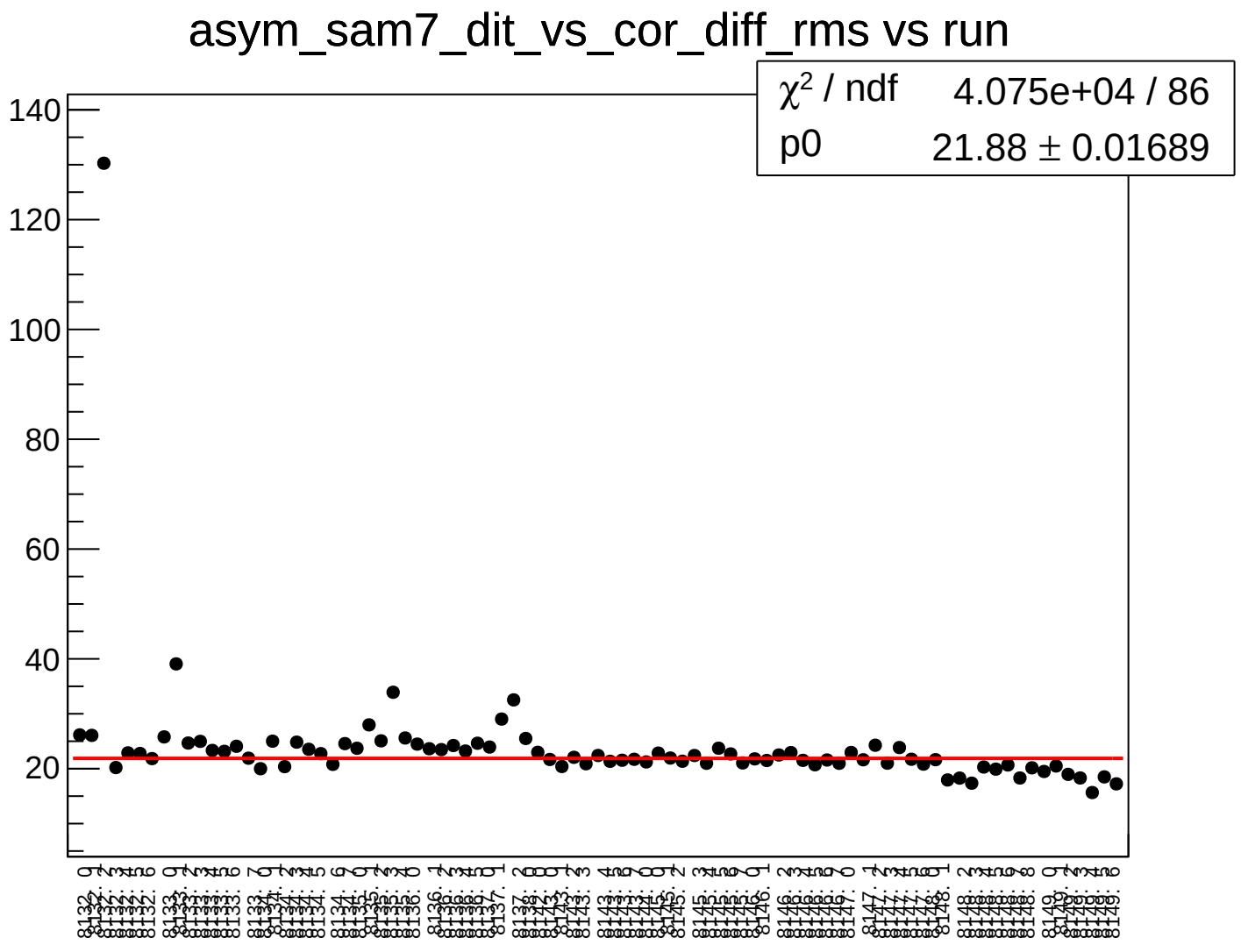

pull1D
Entries 87
Mean 0.005298
Std Dev 1.015
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

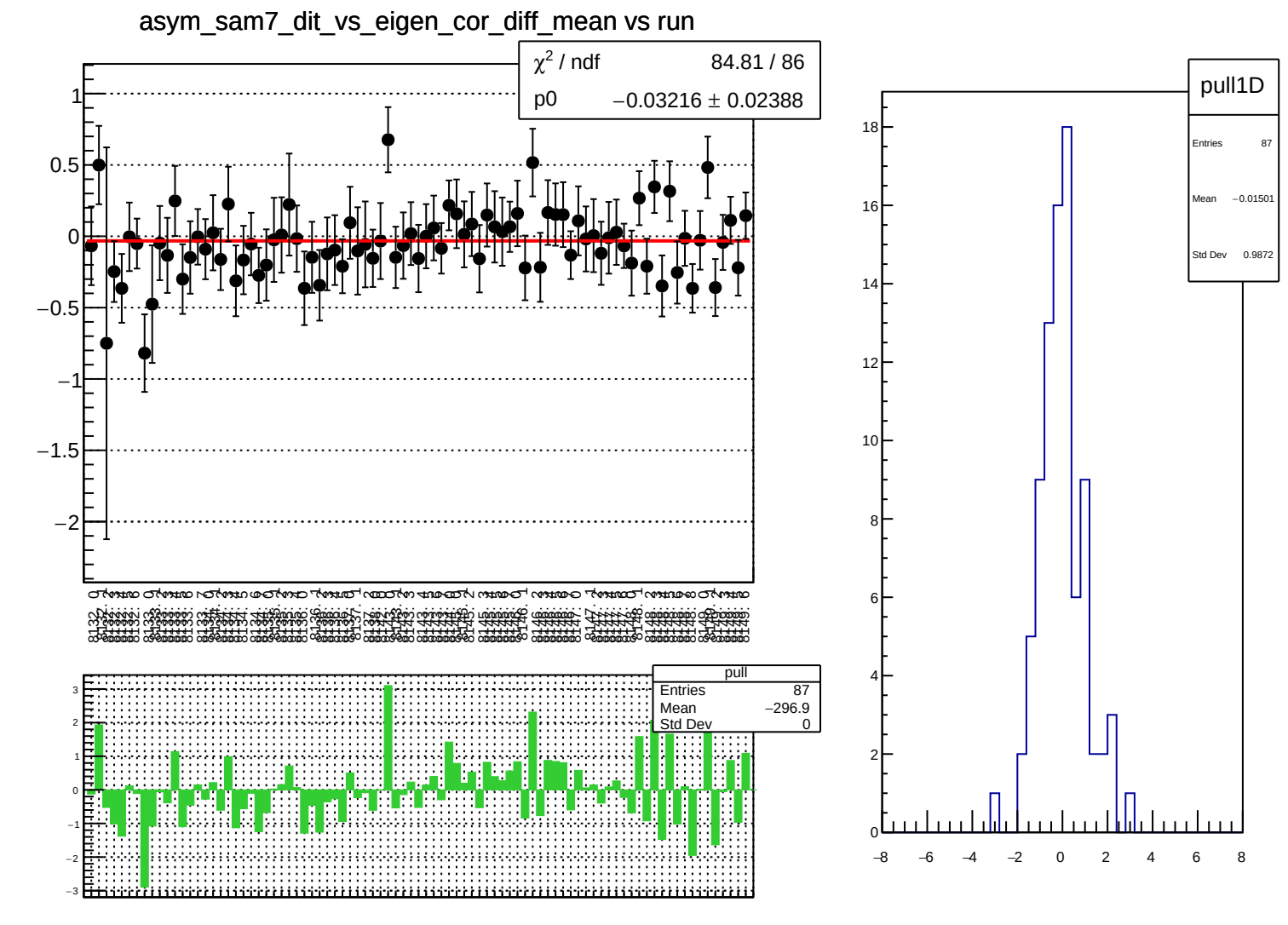

asym_sam7_rms vs run
χ^2 / ndf 1.465e+04 / 86
p0 775.2 ± 0.5938
1200
1100
1000
900
800
700

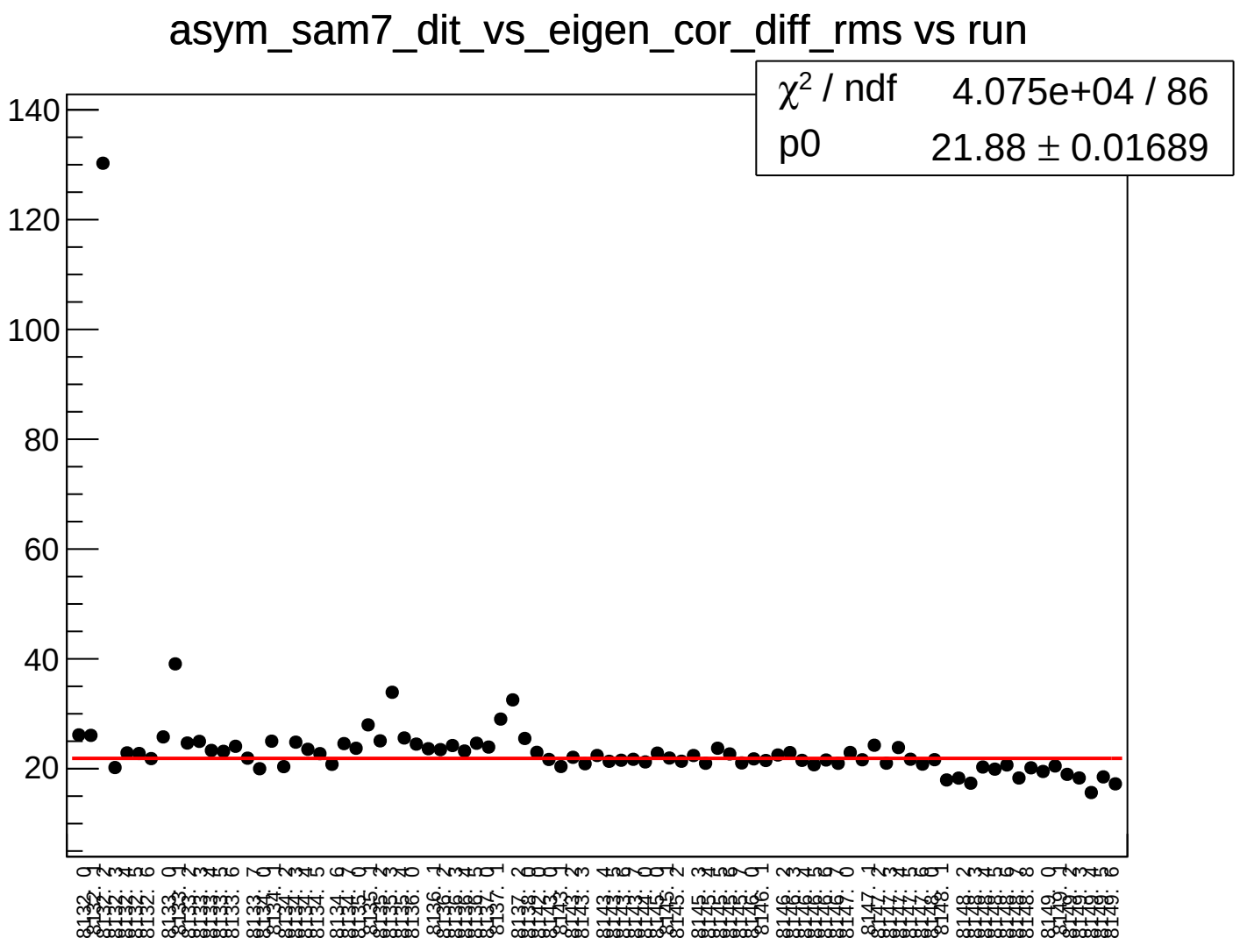

asym_sam7_reg_vs_cor_diff_mean vs run
χ² / ndf 87.97 / 86
p0 −3.045e−13 ± 8.093e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 87
Mean 56.07
Std Dev 0
pull1D
Entries 87
Mean 0.07428
Std Dev 1.003

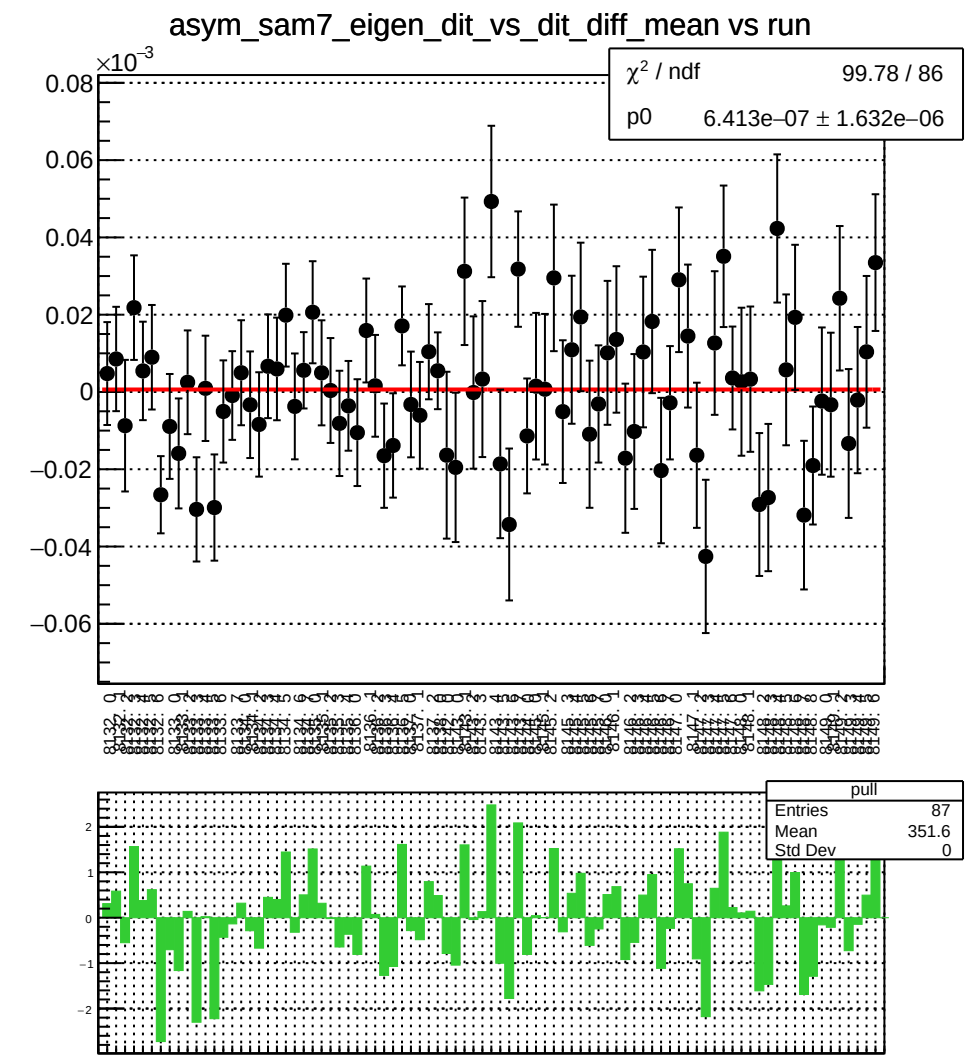

asym_sam7_reg_vs_cor_diff_rms vs run
χ² / ndf 1.001e+06 / 86
p0 4.848e−11 ± 5.723e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

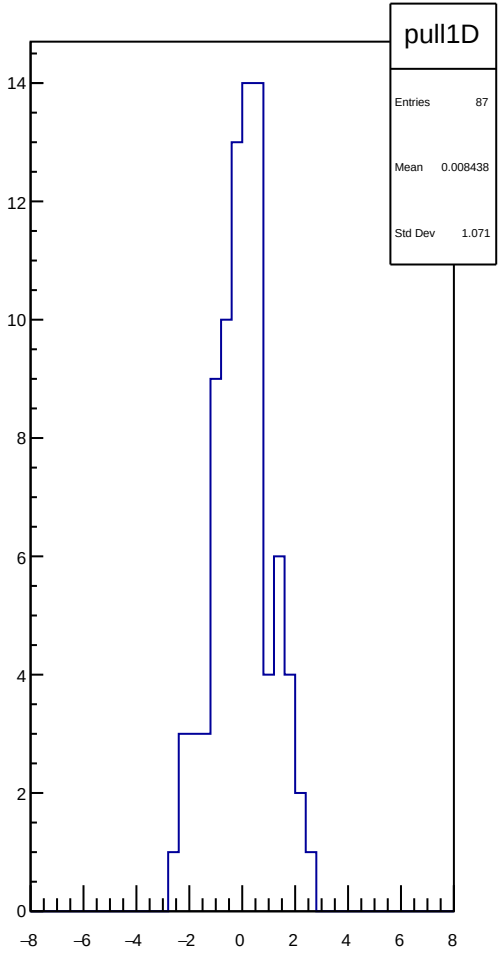

asym_sam7_dit_vs_cor_diff_mean vs run
χ² / ndf 84.81 / 86
p0 −0.03216 ± 0.02388
pull
Entries 87
Mean −296.9
Std Dev 0
pull1D
Entries 87
Mean −0.01501
Std Dev 0.9872

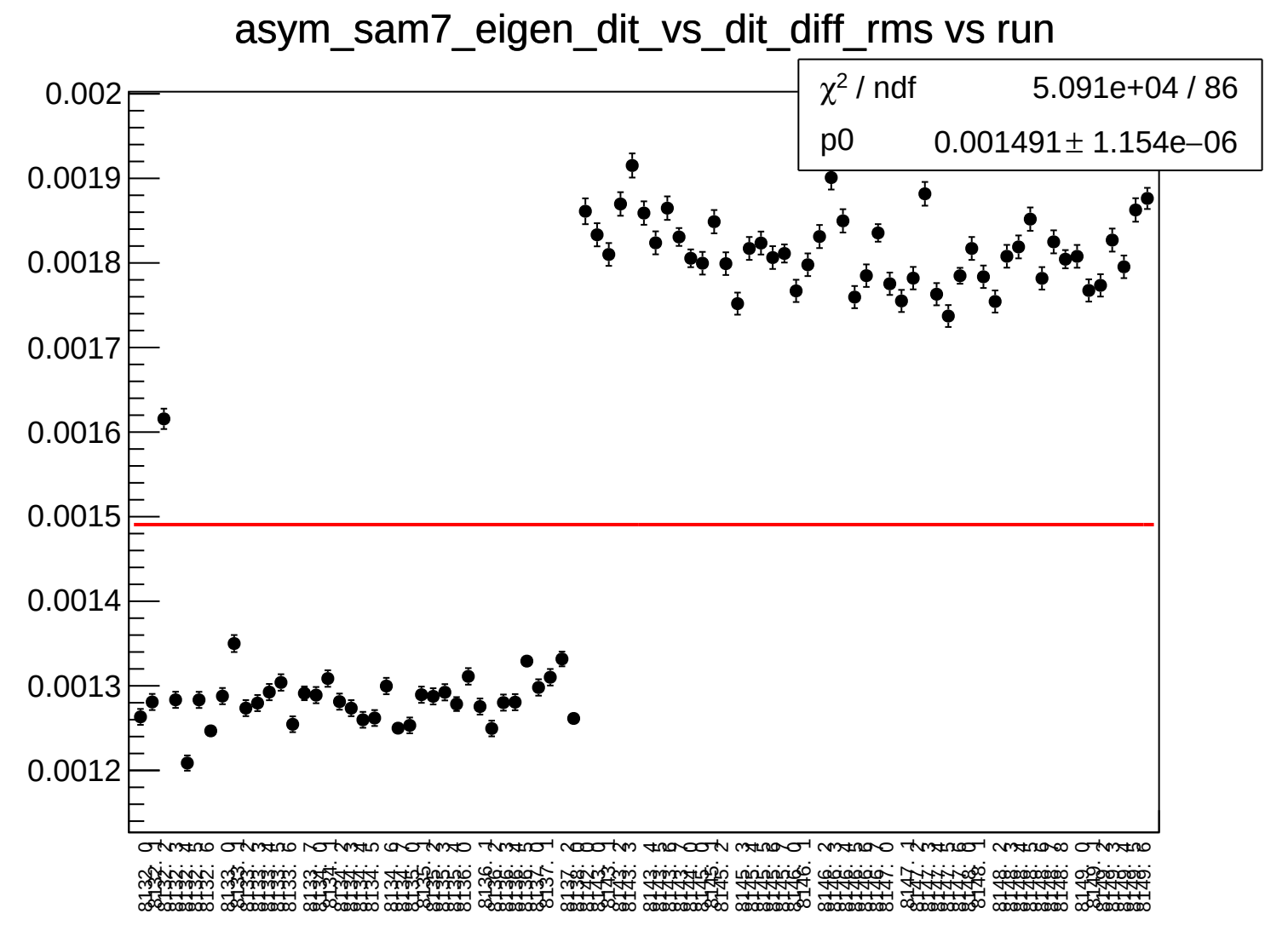

asym_sam7_dit_vs_cor_diff_rms vs run
χ² / ndf 4.075e+04 / 86
p0 21.88 ± 0.01689
140
120
100
80
60
40
20

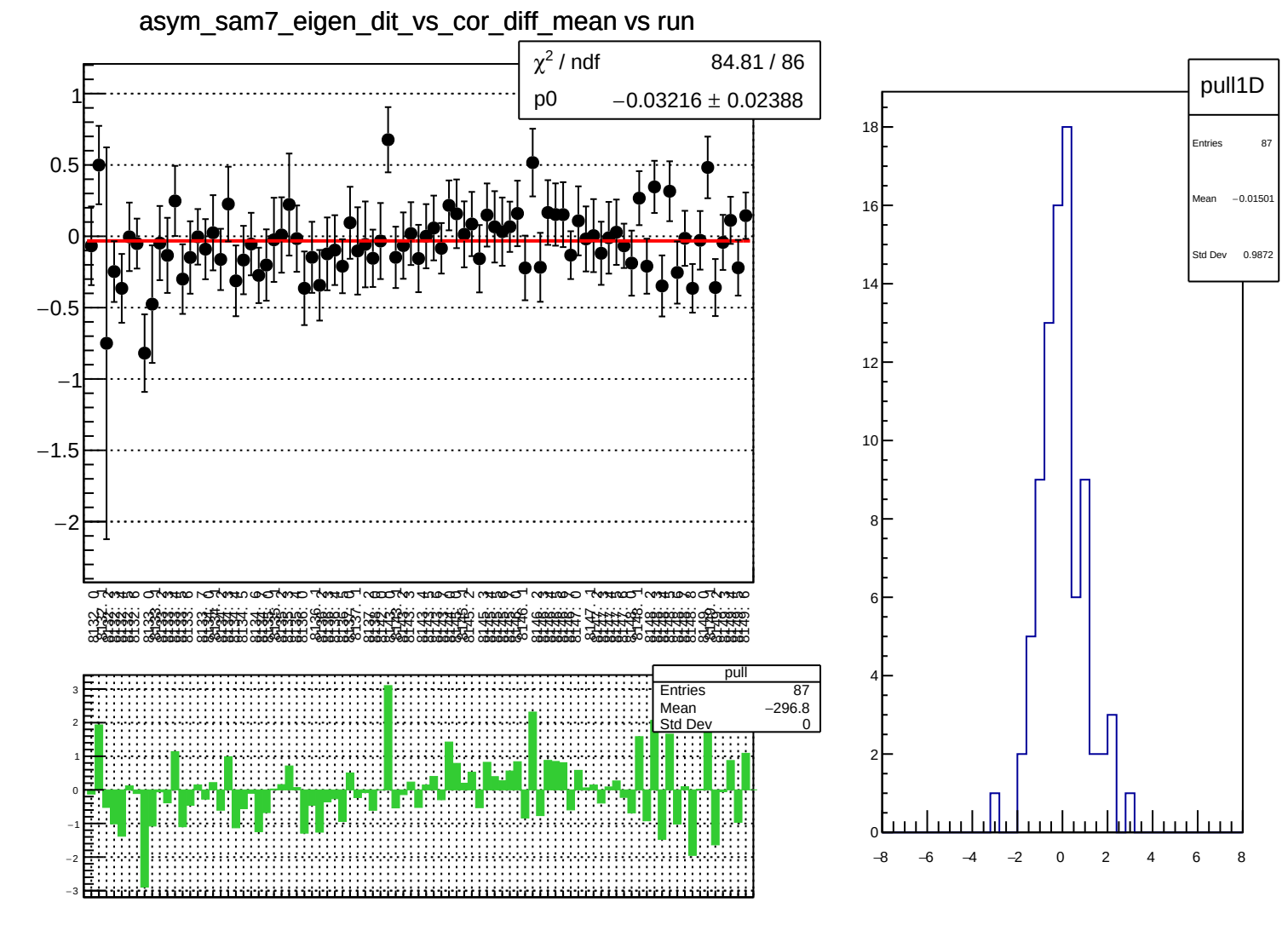

asym_sam7_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.81 / 86
p0 −0.03216 ± 0.02388
pull
Entries 87
Mean −296.9
Std Dev 0
pull1D
Entries 87
Mean −0.01501
Std Dev 0.9872

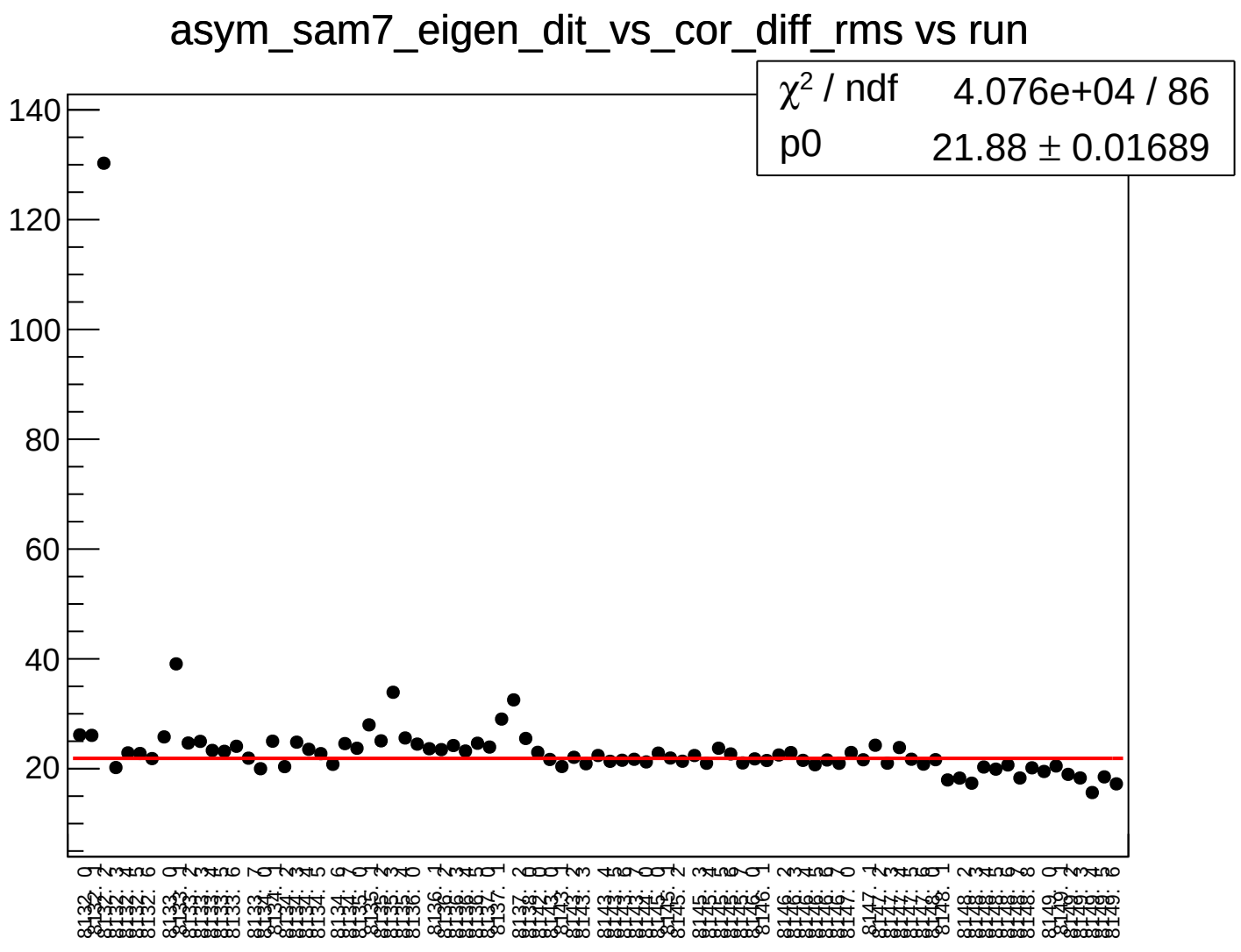

asym_sam7_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.075e+04 / 86
p0 21.88 ± 0.01689
140
120
100
80
60
40
20

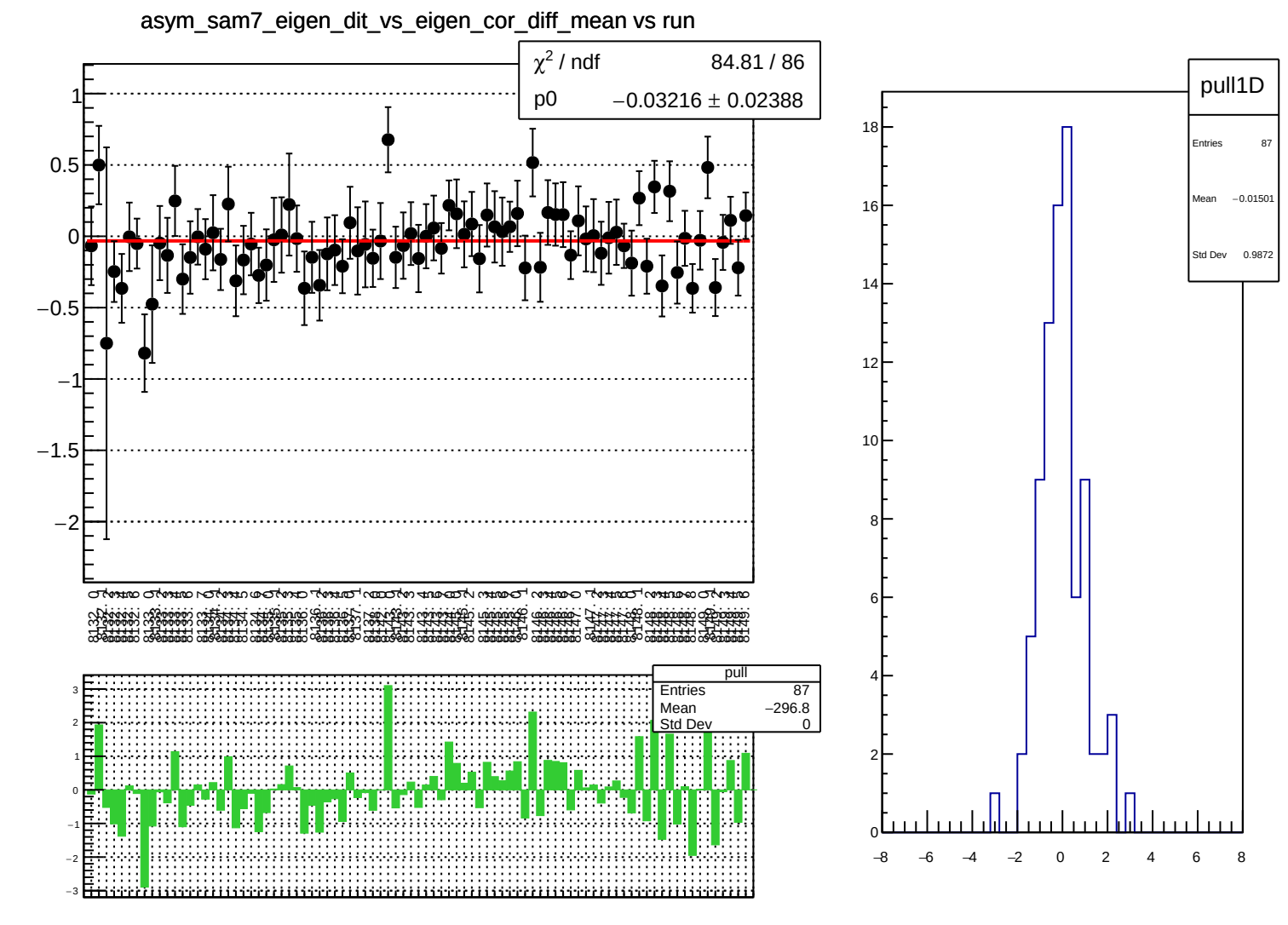

asym_sam7_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 99.78 / 86
p0 6.413e−07 ± 1.632e−06
×10⁻³
pull
Entries 87
Mean 351.6
Std Dev 0

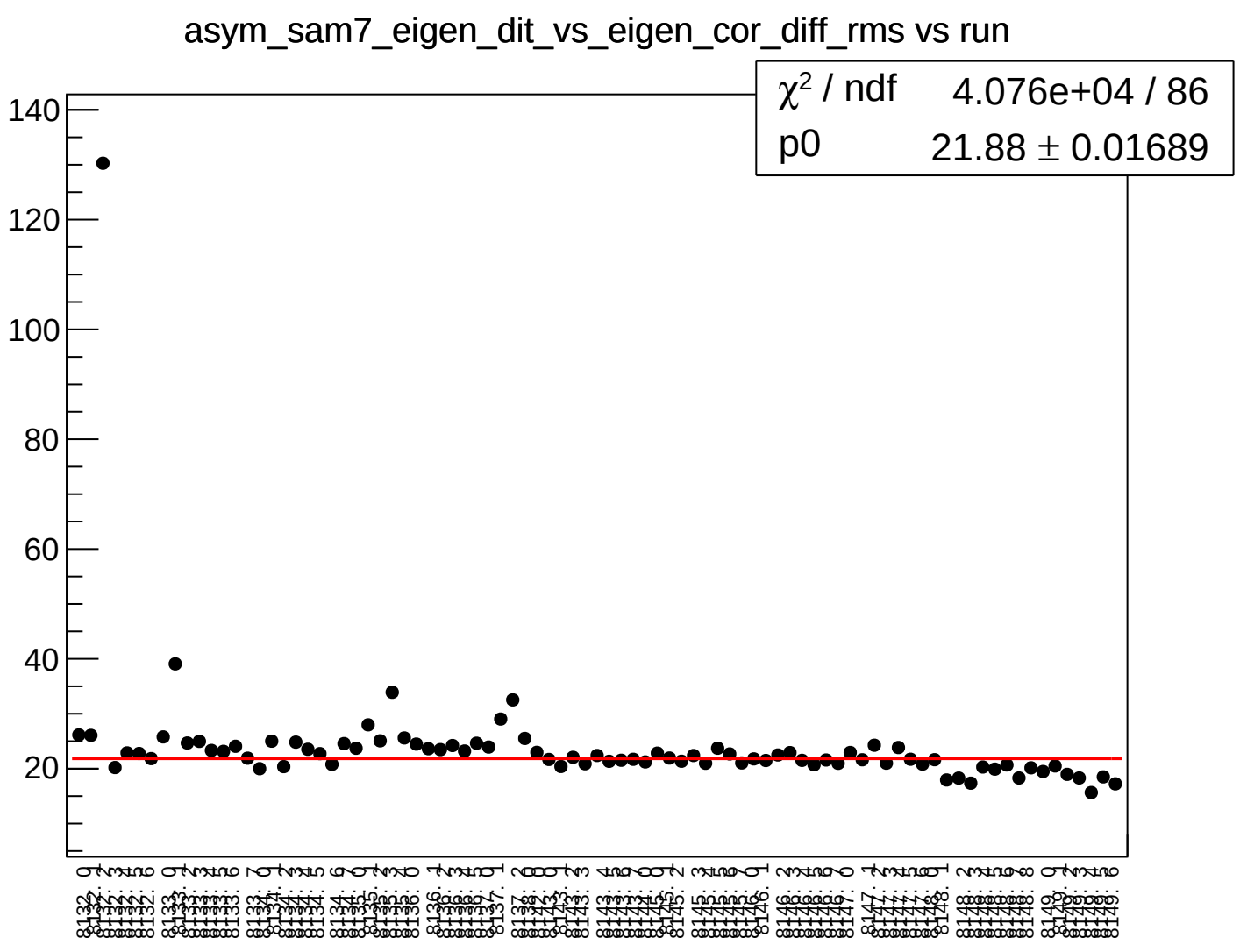

pull1D
Entries 87
Mean 0.008438
Std Dev 1.071

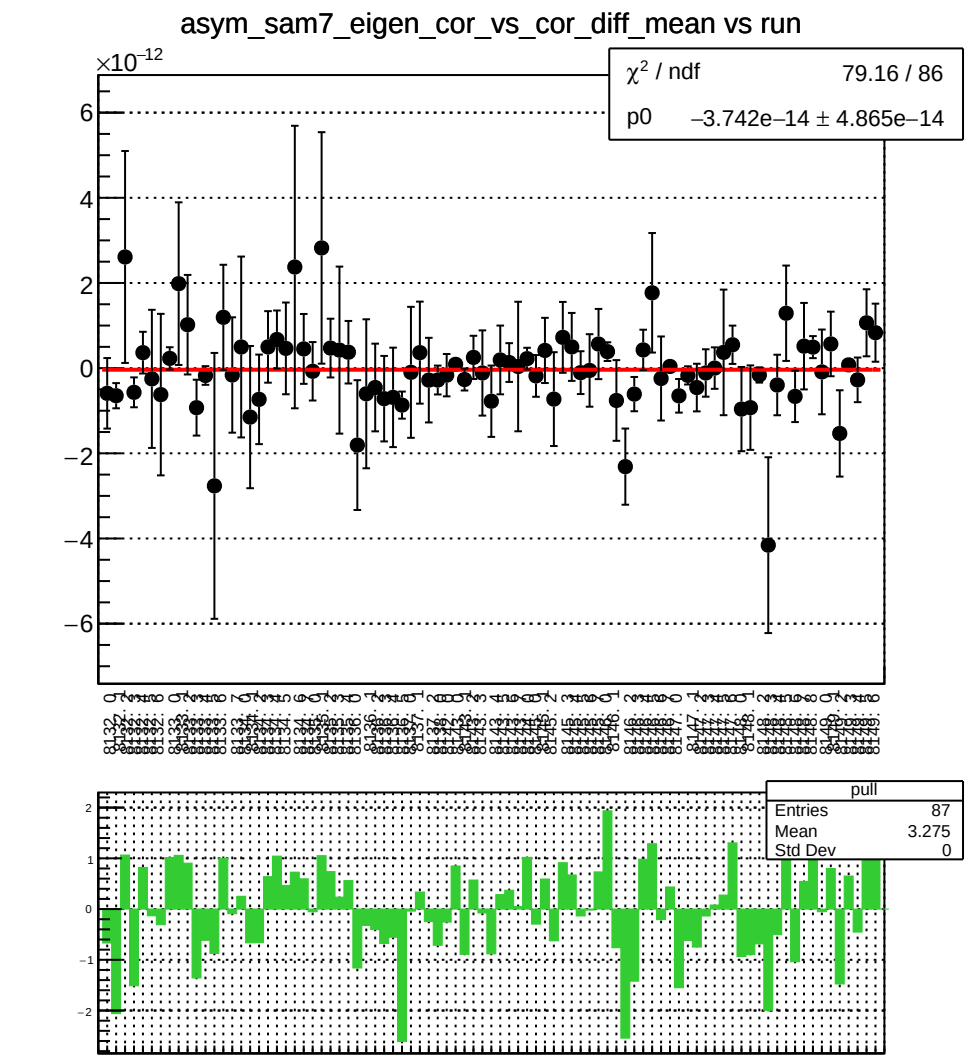

asym_sam7_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.091e+04 / 86
p0 0.001491 ± 1.154e−06
0.002
0.0019
0.0018
0.0017
0.0016
0.0015
0.0014
0.0013
0.0012

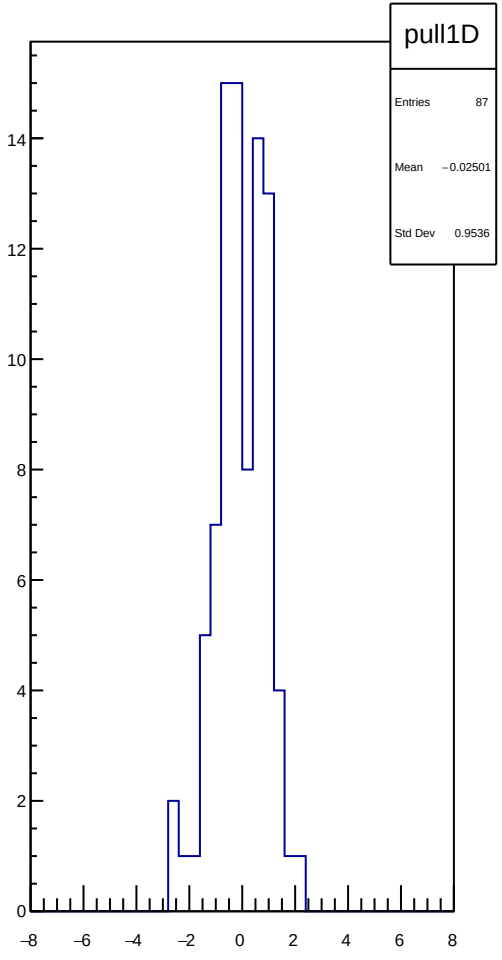

asym_sam7_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.81 / 86
p0 −0.03216 ± 0.02388
pull
Entries 87
Mean −296.8
Std Dev 0
pull1D
Entries 87
Mean −0.01501
Std Dev 0.9872

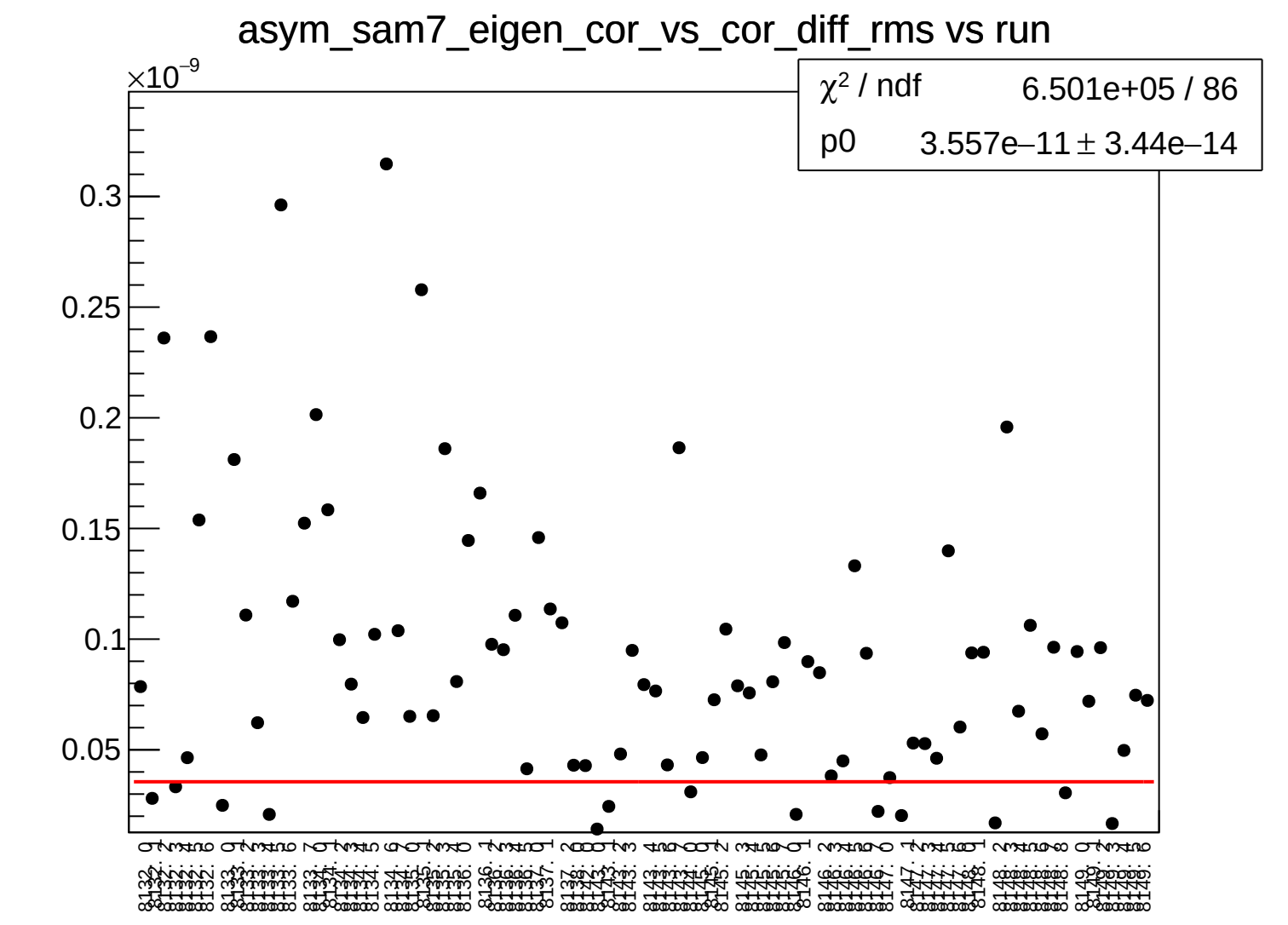

asym_sam7_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.076e+04 / 86
p0 21.88 ± 0.01689
140
120
100
80
60
40
20

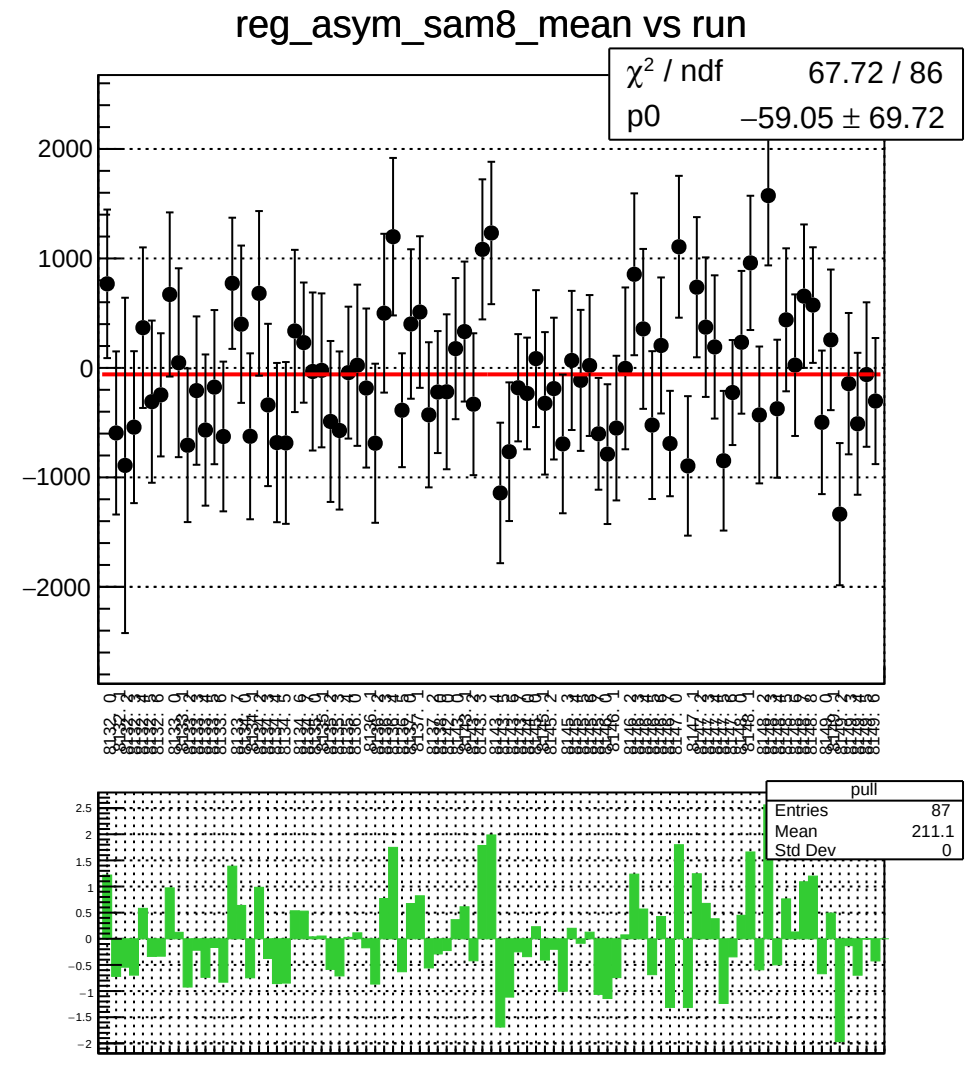

asym_sam7_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.81 / 86
p0 −0.03216 ± 0.02388
pull
Entries 87
Mean −296.8
Std Dev 0
pull1D
Entries 87
Mean −0.01501
Std Dev 0.9872

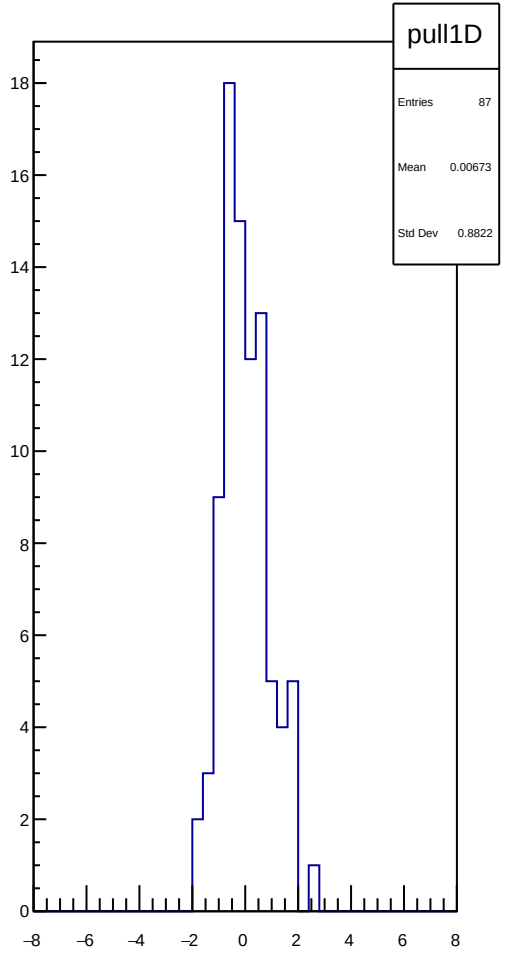

asym_sam7_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.076e+04 / 86
p0 21.88 ± 0.01689
140
120
100
80
60
40
20

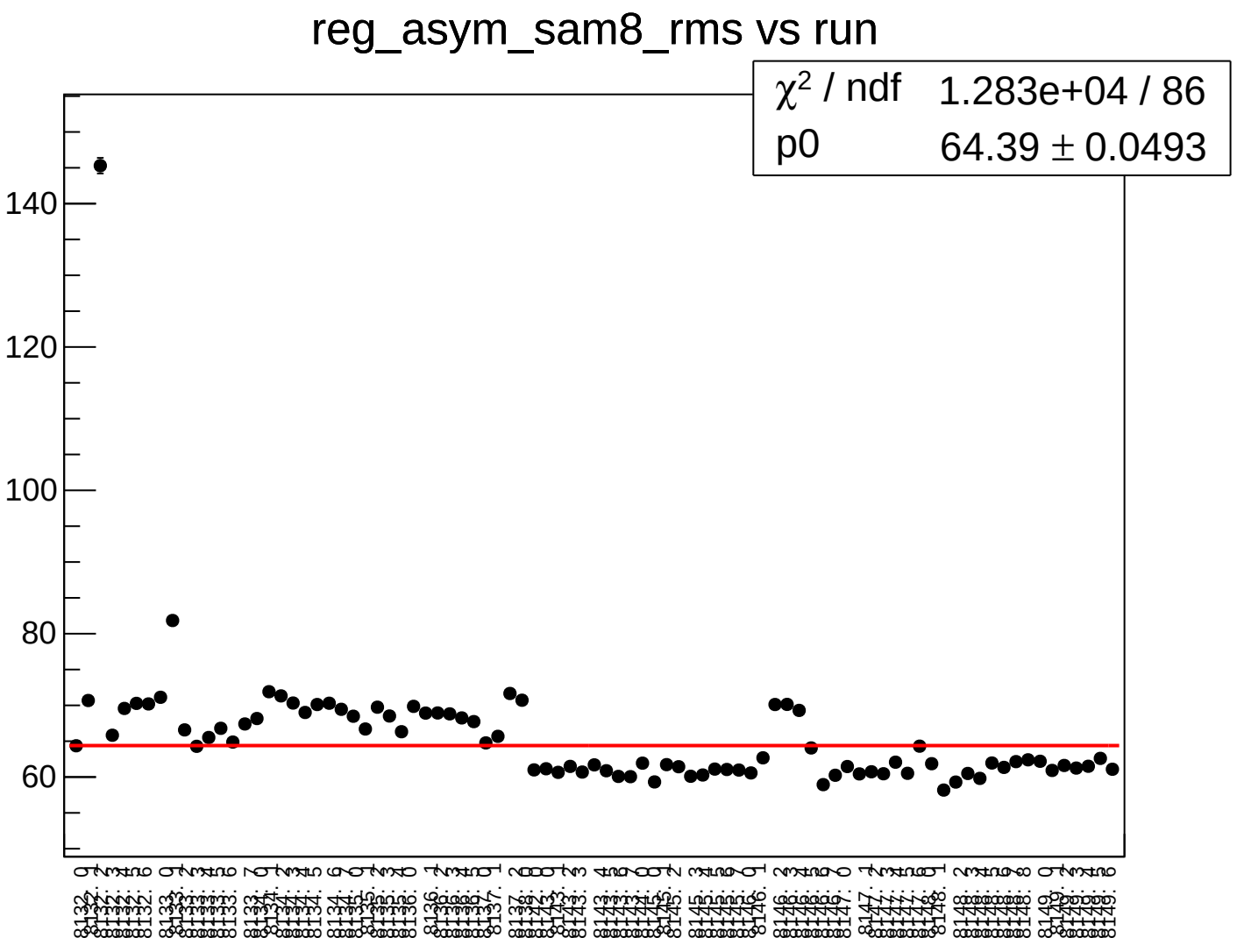

asym_sam7_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.16 / 86
p0 −3.742e−14 ± 4.865e−14
pull
Entries 87
Mean 3.275
Std Dev 0

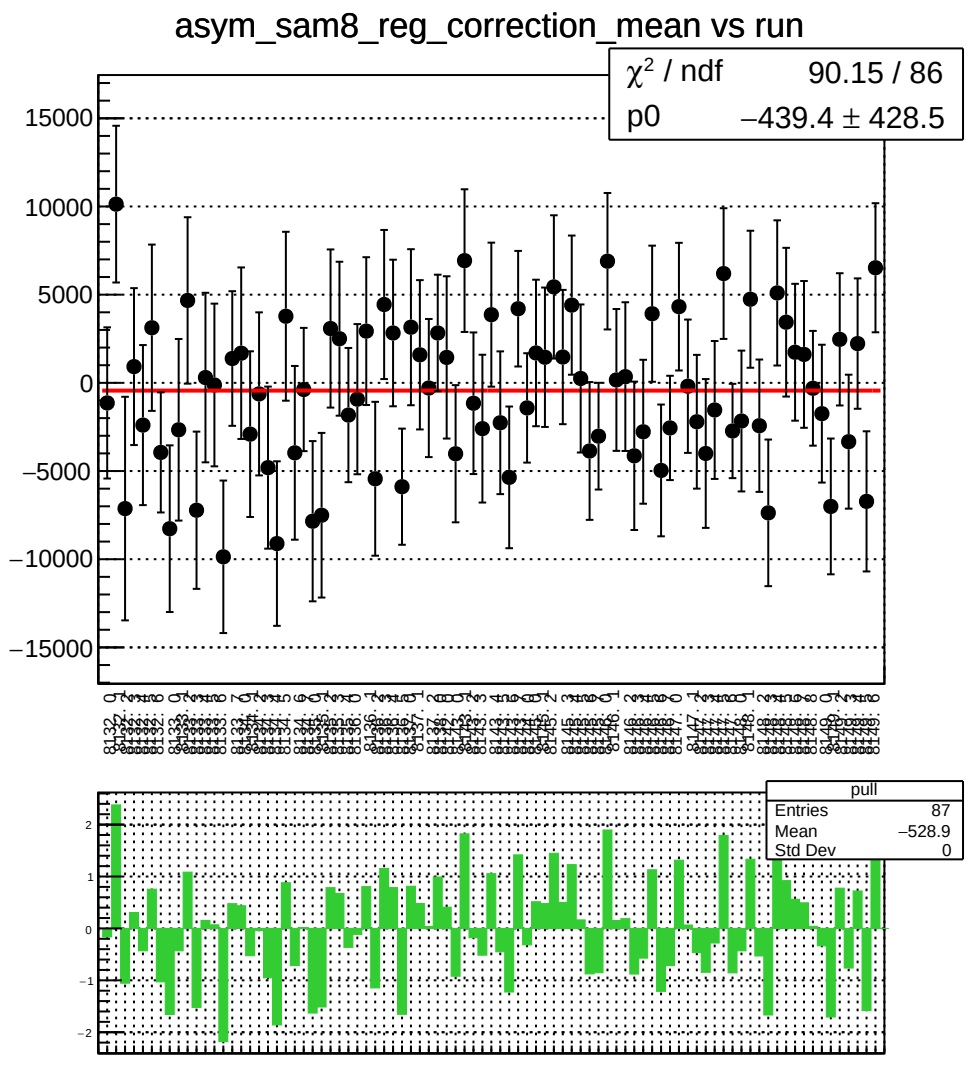

pull1D
Entries 87
Mean −0.02501
Std Dev 0.9536

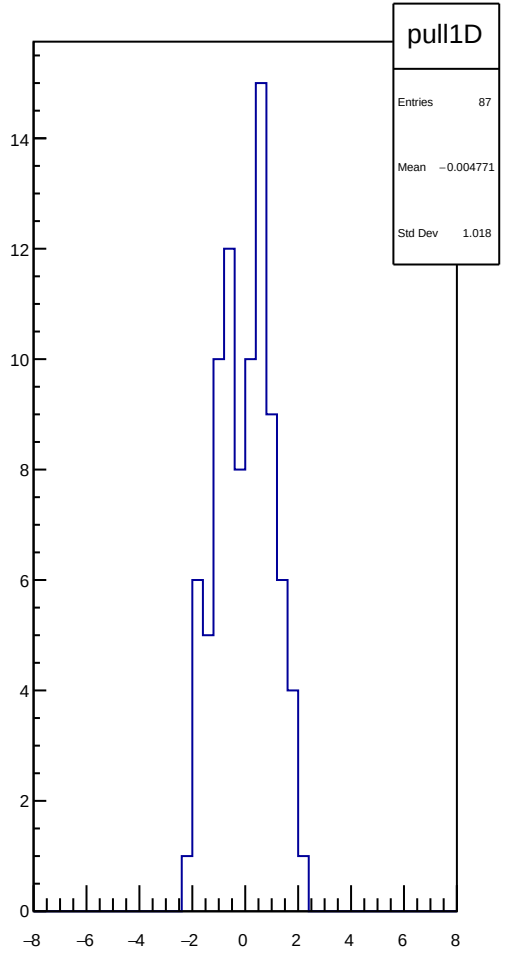

asym_sam7_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.501e+05 / 86
p0 3.557e−11 ± 3.44e−14
0.3
0.25
0.2
0.15
0.1
0.05

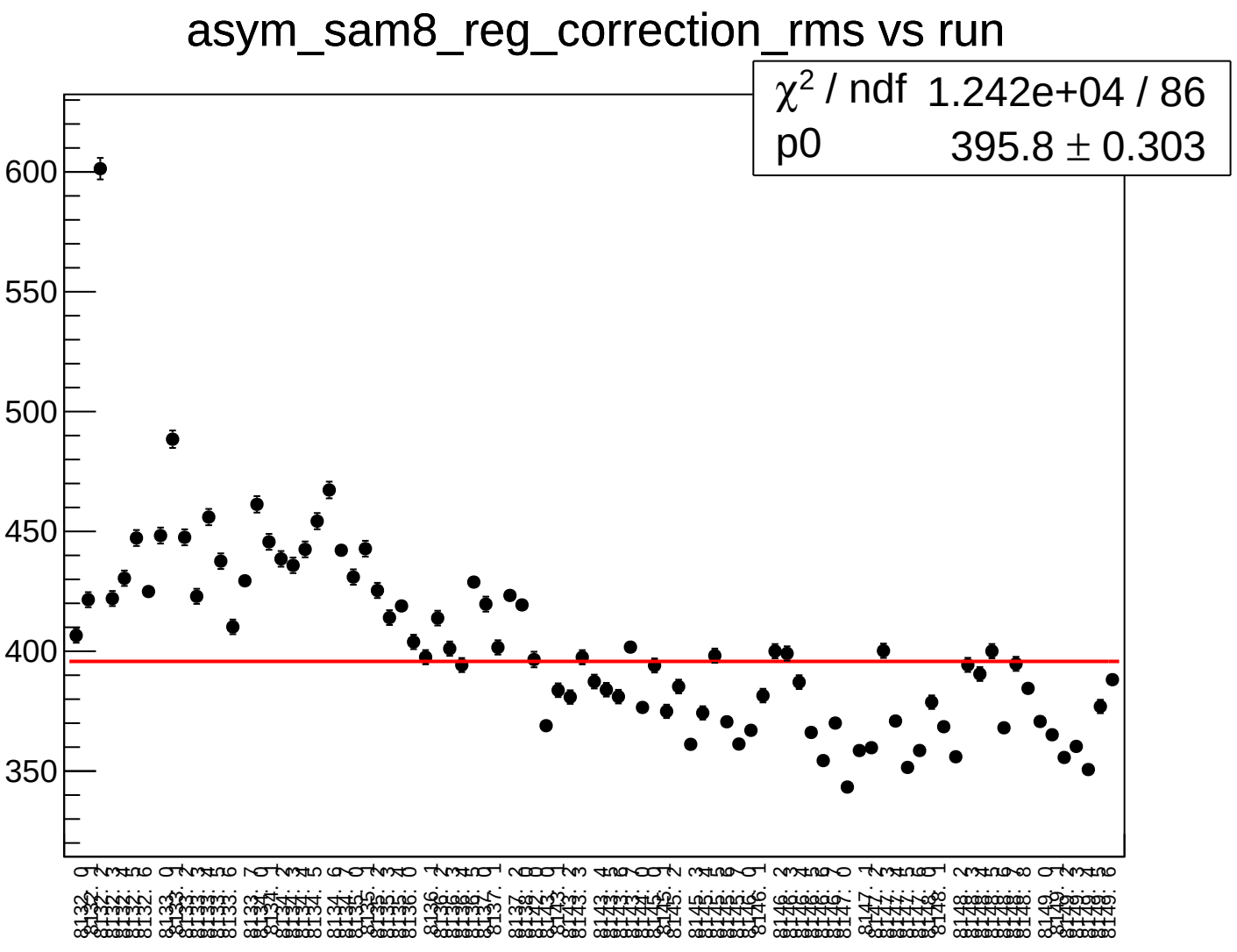

reg_asym_sam8_mean vs run
χ² / ndf 67.72 / 86
p0 −59.05 ± 69.72
2000
1000
0
−1000
−2000
pull
Entries 87
Mean 211.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

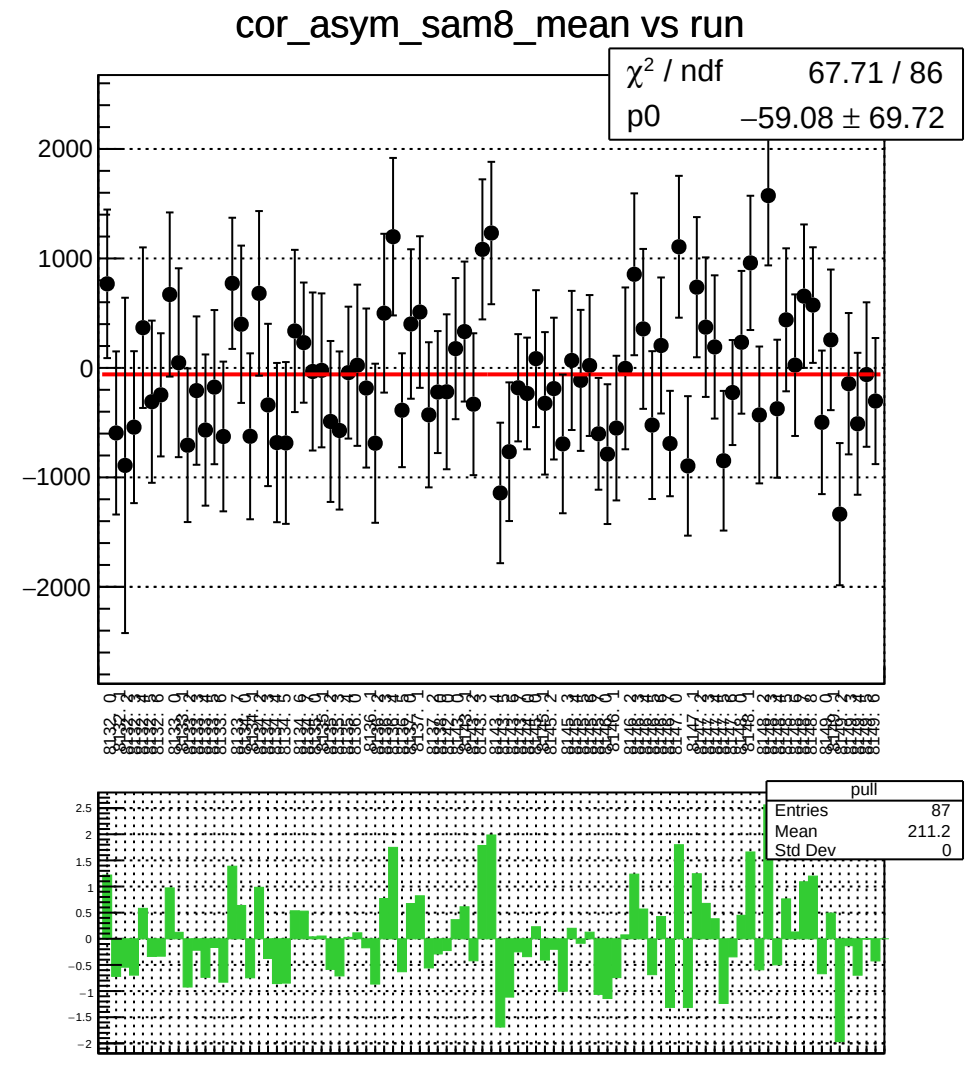

pull1D
Entries 87
Mean 0.00673
Std Dev 0.8822
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

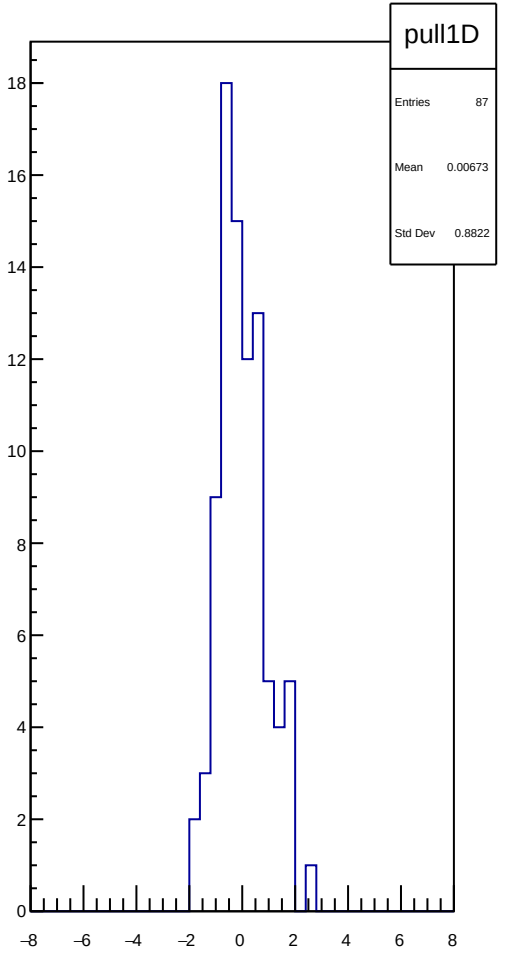

reg_asym_sam8_rms vs run
χ^2 / ndf 1.283e+04 / 86
p0 64.39 ± 0.0493
140
120
100
80
60

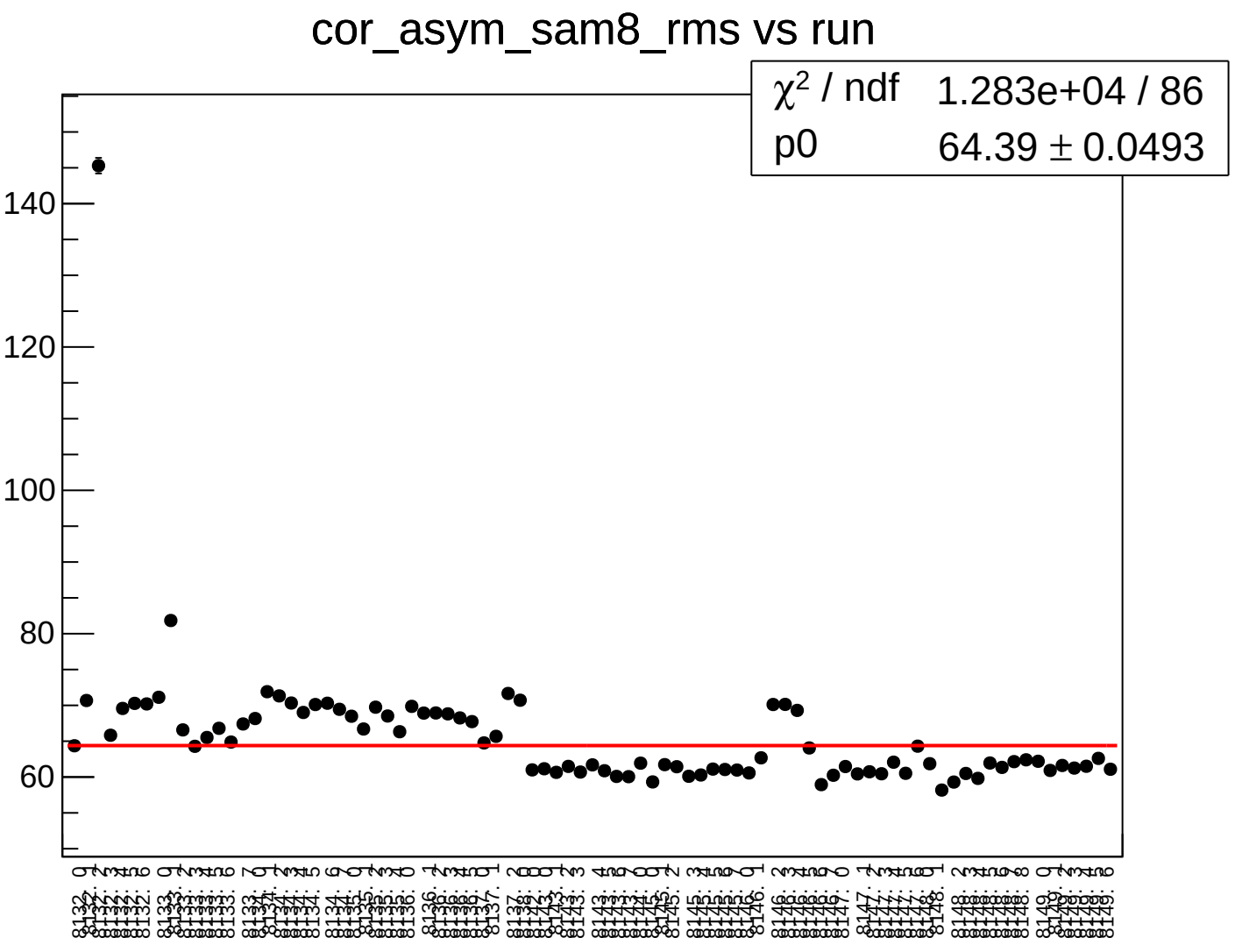

asym_sam8_reg_correction_mean vs run
χ² / ndf 90.15 / 86
p0 −439.4 ± 428.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean −528.9
Std Dev 0
2
1
0
−1
−2

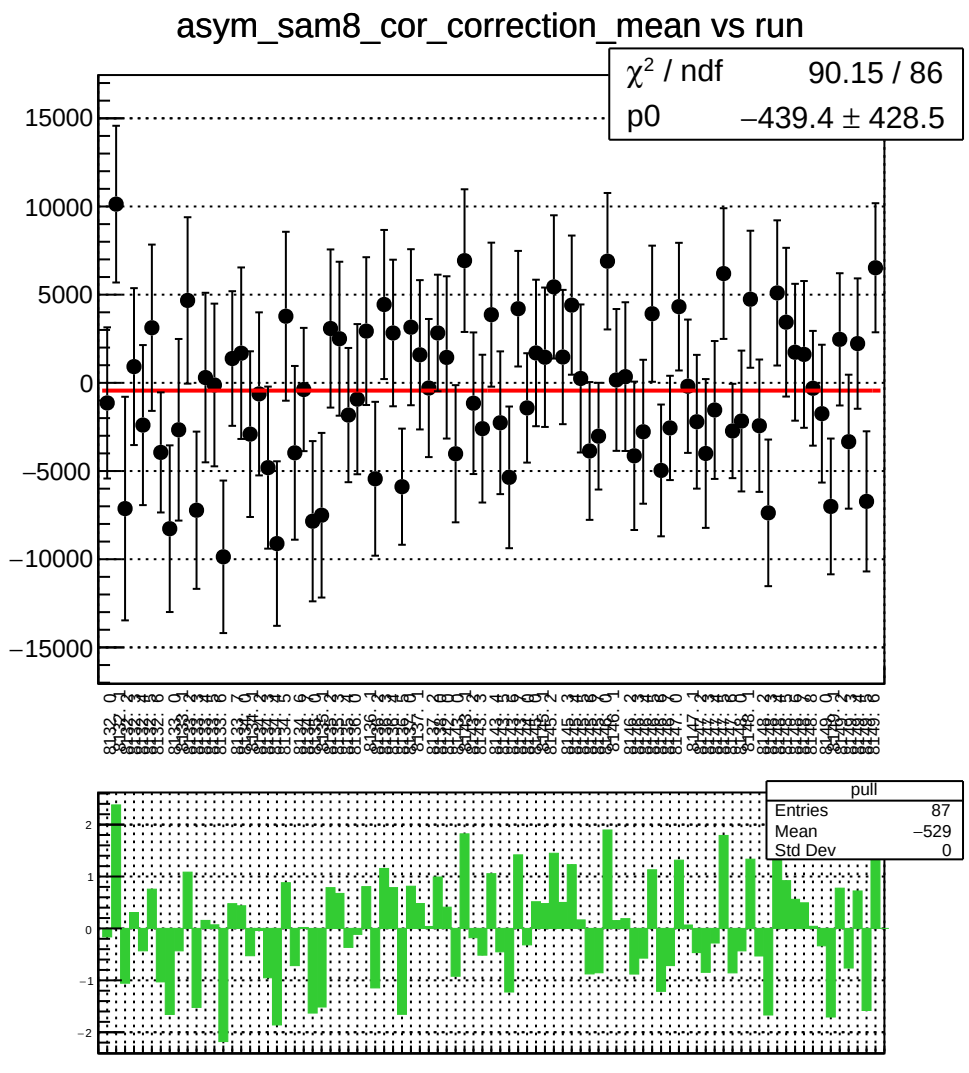

pull1D
Entries 87
Mean −0.004771
Std Dev 1.018
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

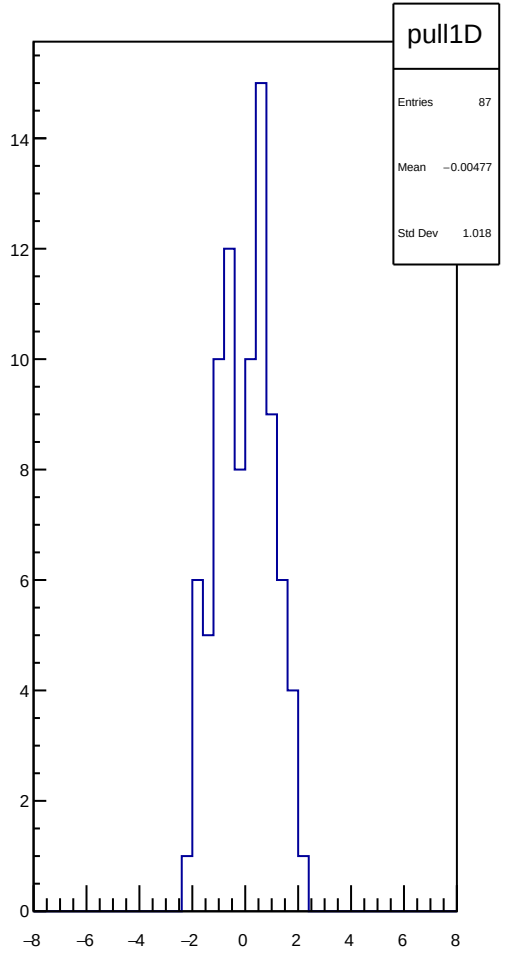

asym_sam8_reg_correction_rms vs run
χ² / ndf 1.242e+04 / 86
p0 395.8 ± 0.303
600
550
500
450
400
350

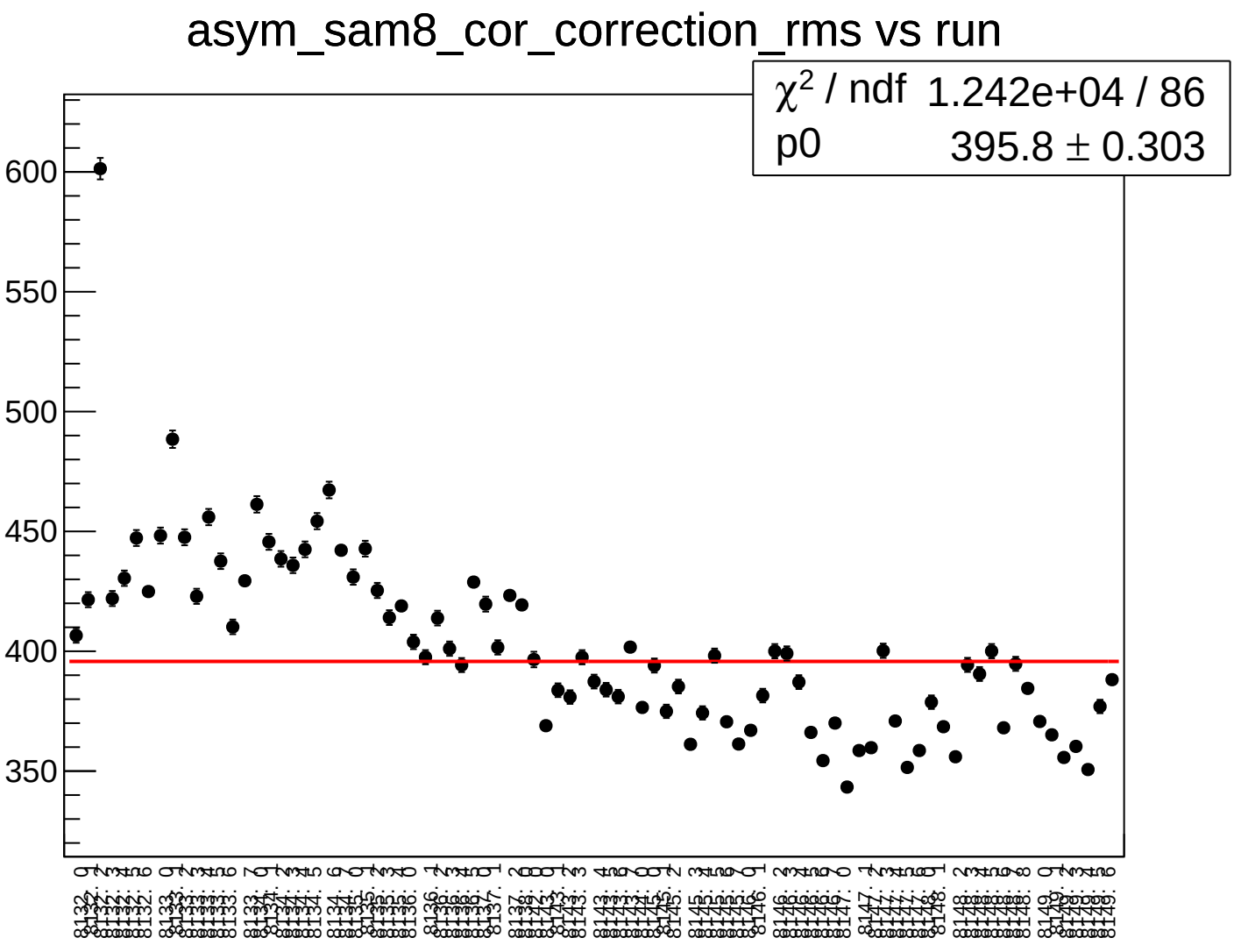

cor_asym_sam8_mean vs run
χ² / ndf 67.71 / 86
p0 −59.08 ± 69.72
2000
1000
0
−1000
−2000
pull
Entries 87
Mean 211.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

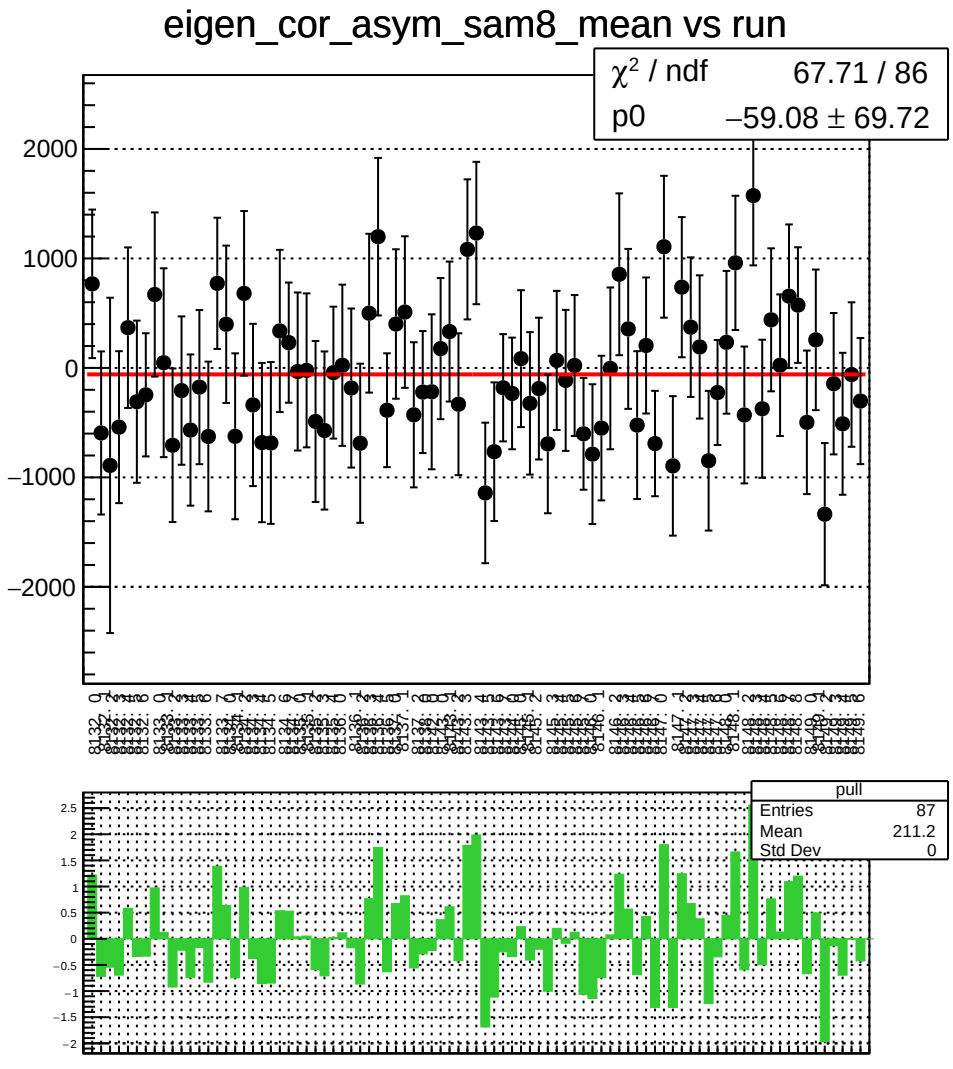

pull1D
Entries 87
Mean 0.00673
Std Dev 0.8822
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

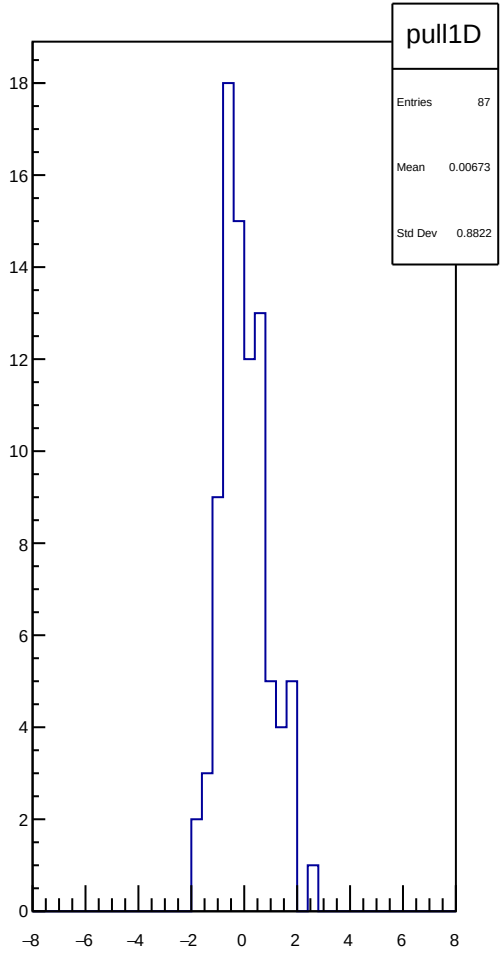

cor_asym_sam8_rms vs run
χ^2 / ndf 1.283e+04 / 86
p0 64.39 ± 0.0493
140
120
100
80
60

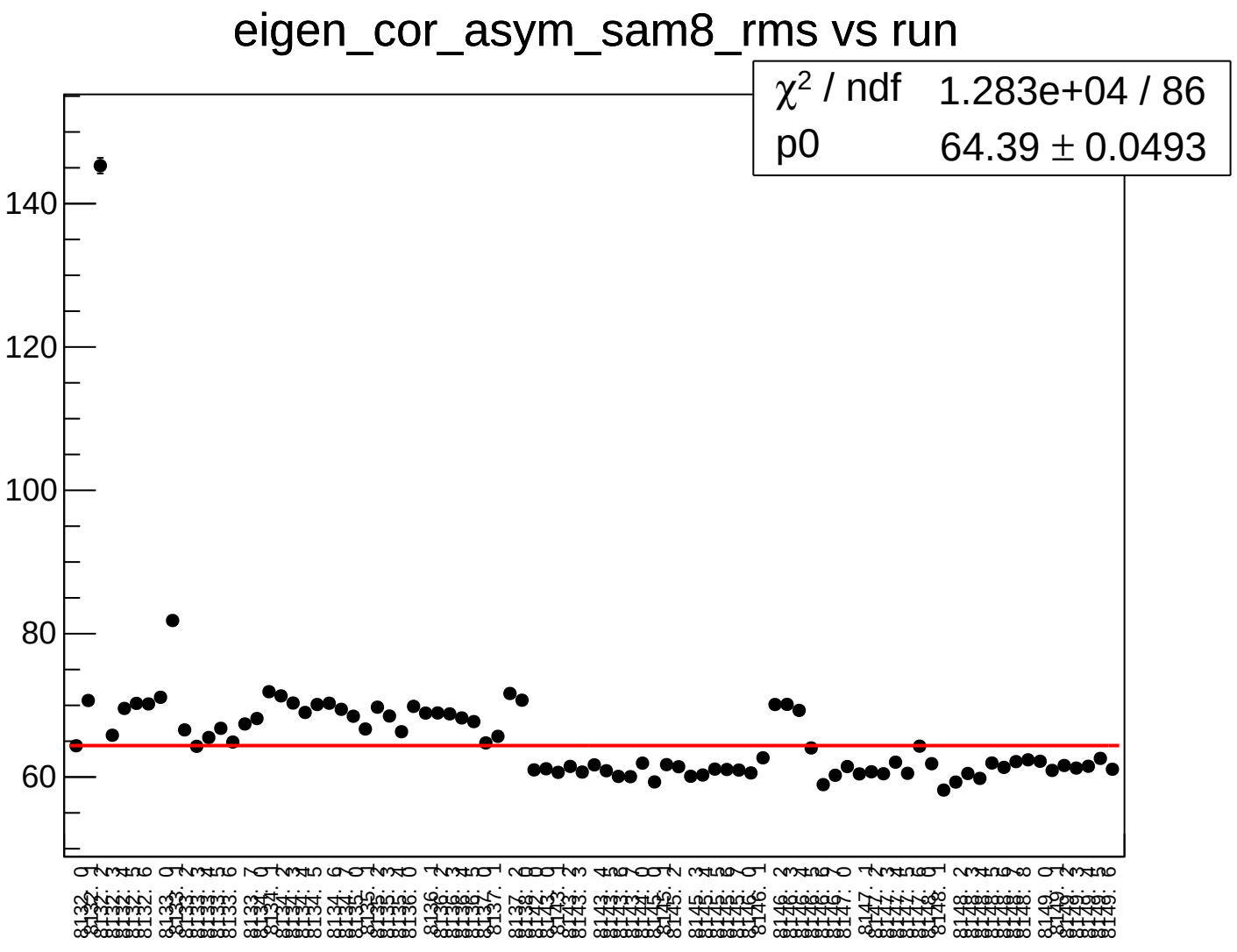

asym_sam8_cor_correction_mean vs run
χ² / ndf 90.15 / 86
p0 −439.4 ± 428.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean −529
Std Dev 0
2
1
0
−1
−2

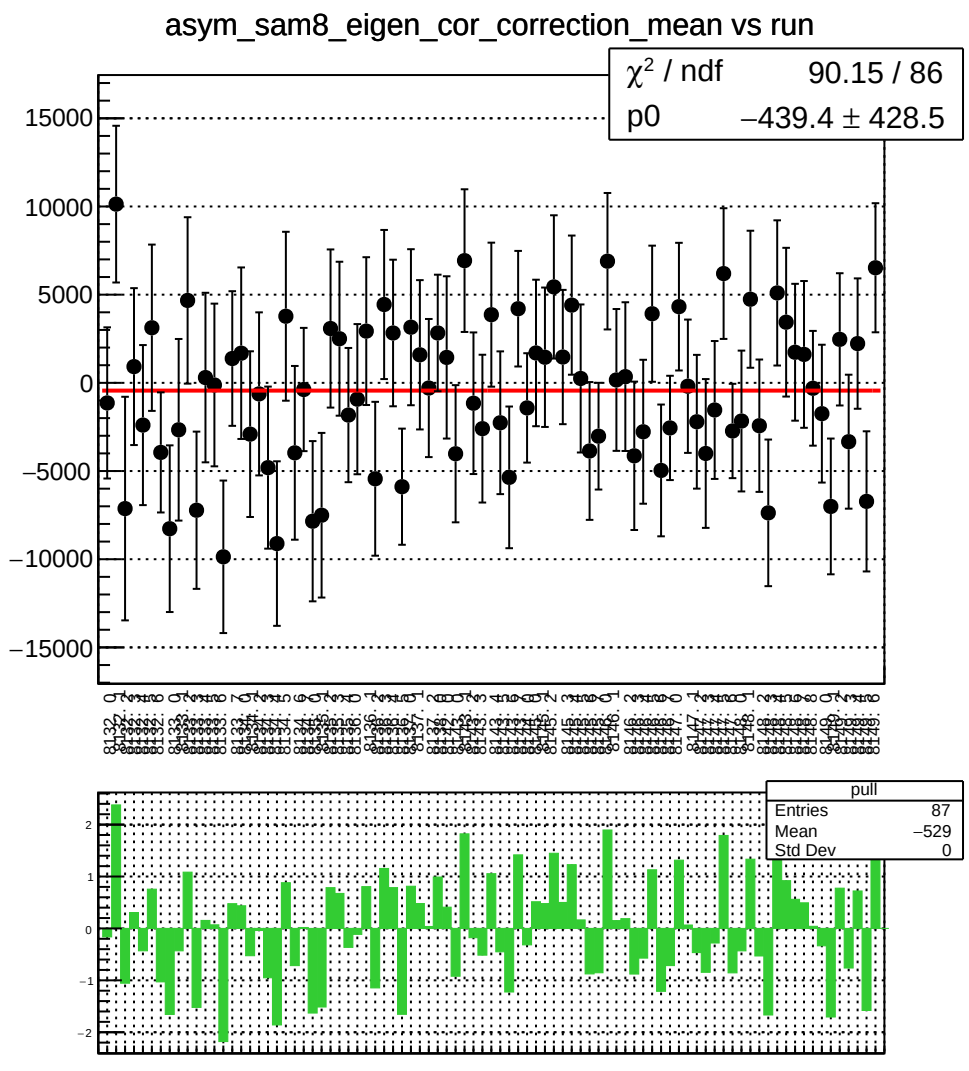

pull1D
Entries 87
Mean −0.00477
Std Dev 1.018
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

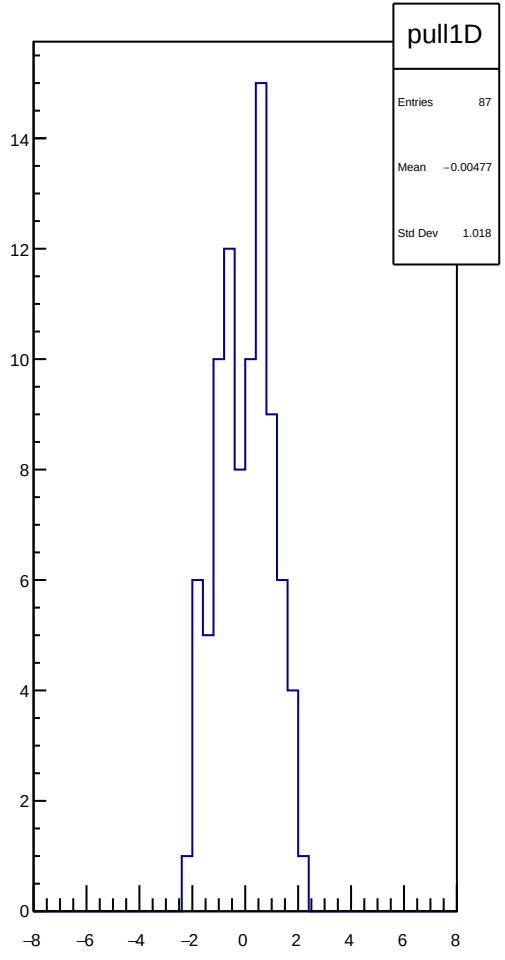

asym_sam8_cor_correction_rms vs run
χ² / ndf 1.242e+04 / 86
p0 395.8 ± 0.303
600
550
500
450
400
350

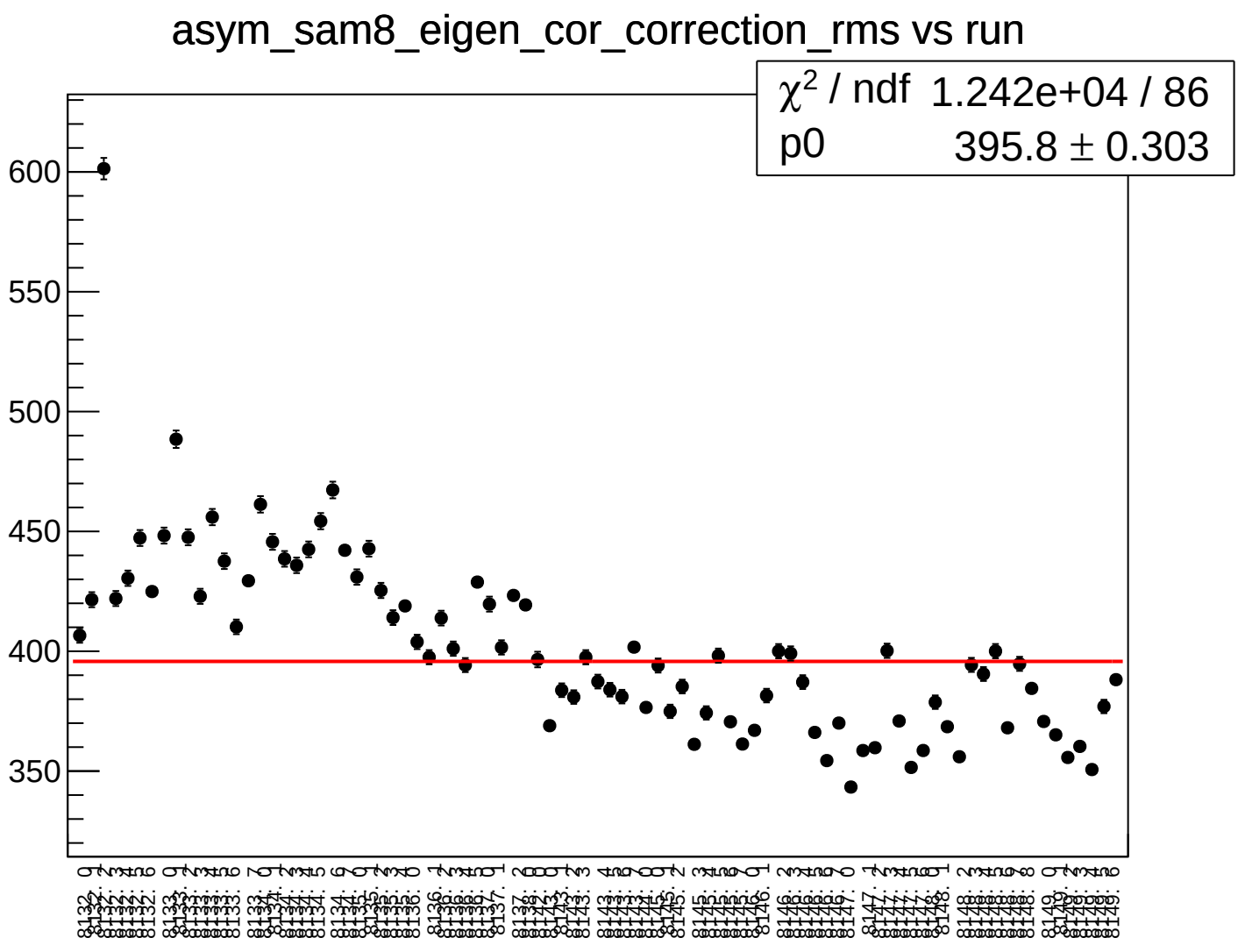

eigen_cor_asym_sam8_mean vs run
χ² / ndf 67.71 / 86
p0 −59.08 ± 69.72
2000
1000
0
−1000
−2000
pull
Entries 87
Mean 211.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

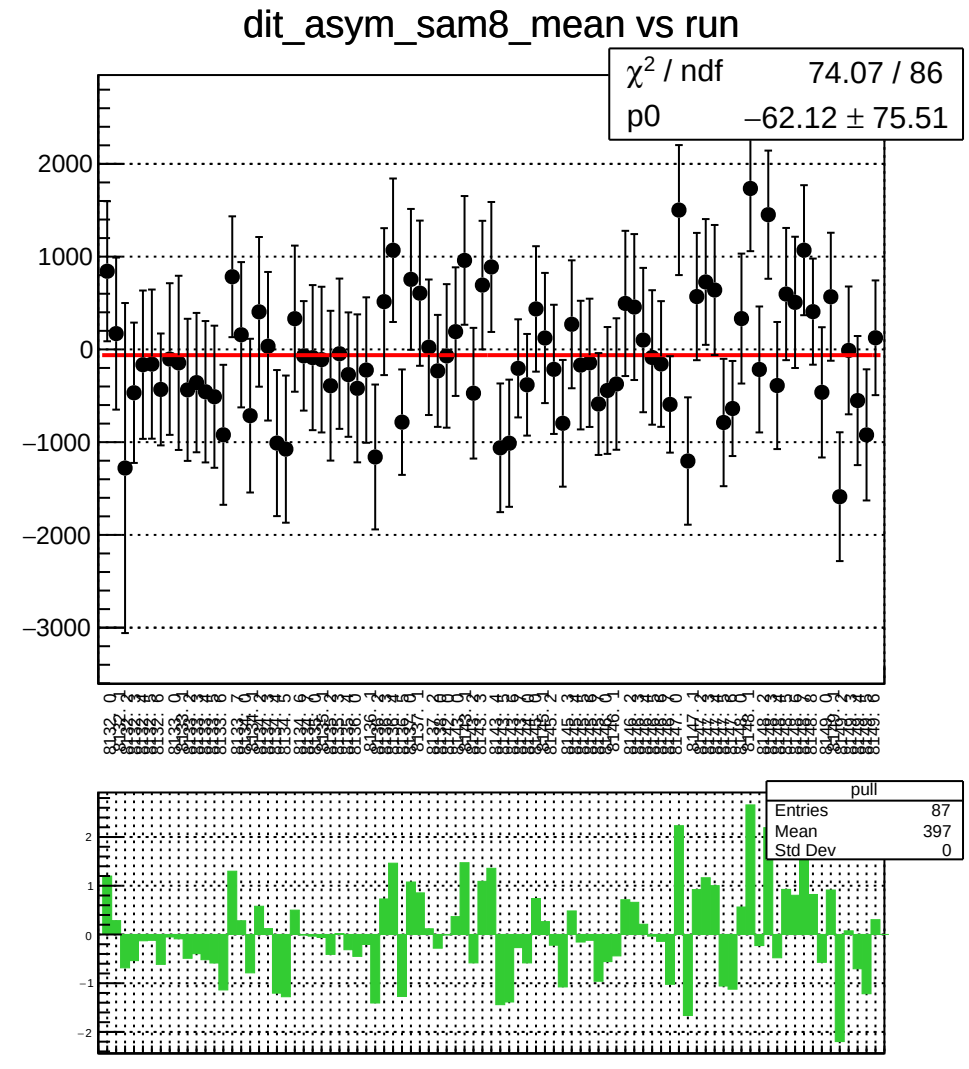

pull1D
Entries 87
Mean 0.00673
Std Dev 0.8822
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

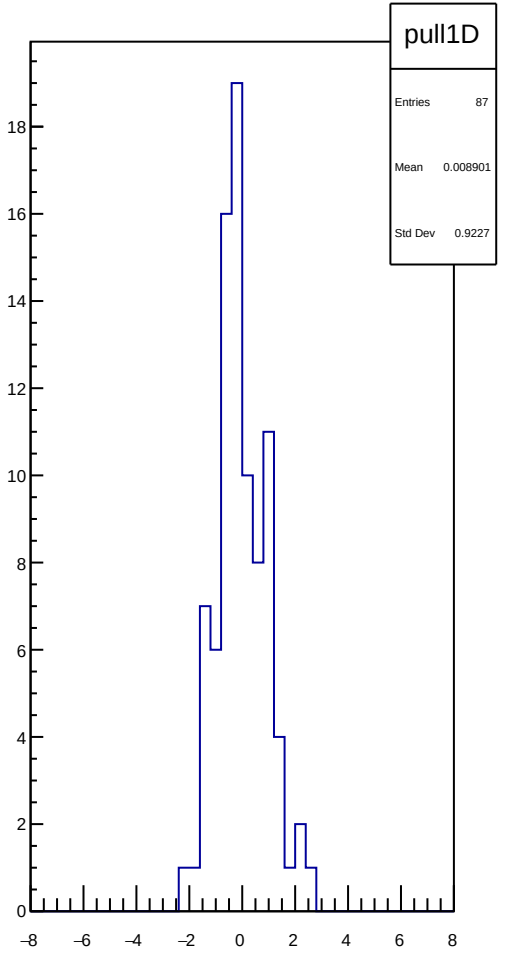

eigen_cor_asym_sam8_rms vs run
χ² / ndf 1.283e+04 / 86
p0 64.39 ± 0.0493
140
120
100
80
60


asym_sam8_eigen_cor_correction_mean vs run
χ² / ndf 90.15 / 86
p0 −439.4 ± 428.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean −529
Std Dev 0
2
1
0
−1
−2

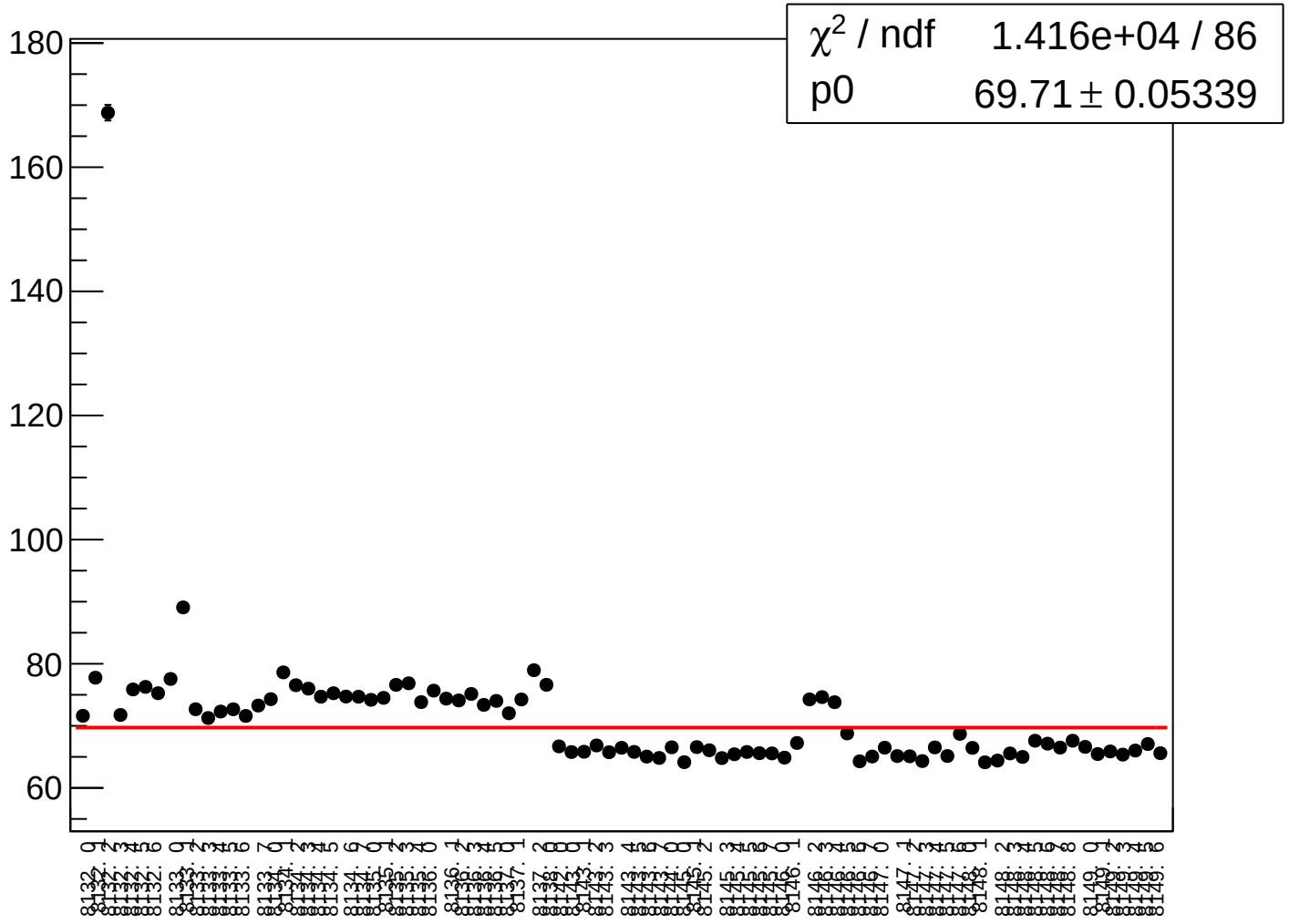

pull1D
Entries 87
Mean −0.00477
Std Dev 1.018
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

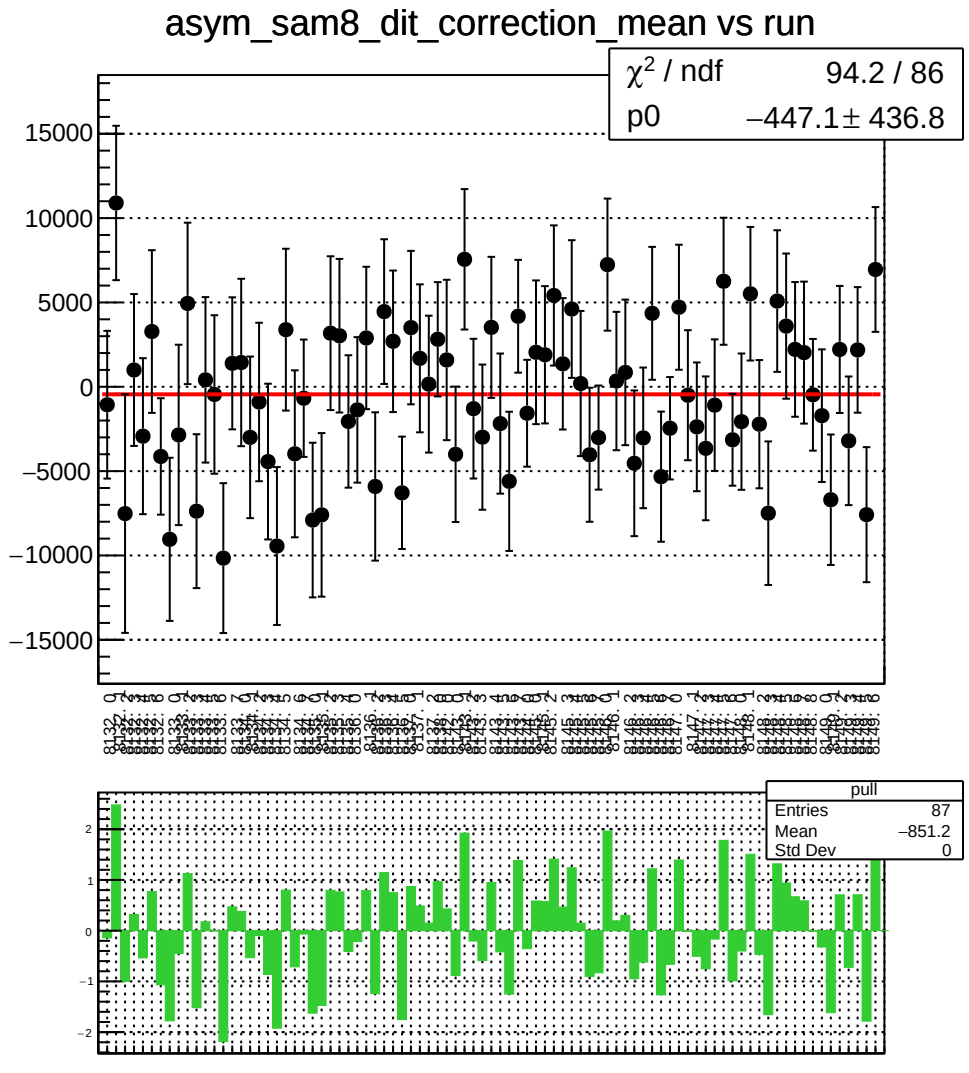

asym_sam8_eigen_cor_correction_rms vs run
χ^2 / ndf 1.242e+04 / 86
p0 395.8 ± 0.303
600
550
500
450
400
350

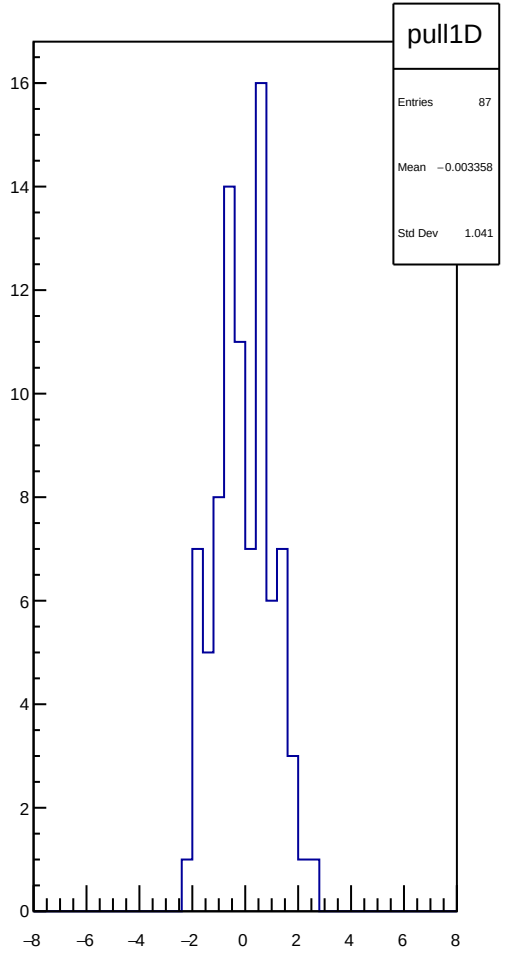

dit_asym_sam8_mean vs run
χ² / ndf 74.07 / 86
p0 −62.12 ± 75.51
2000
1000
0
−1000
−2000
−3000
pull
Entries 87
Mean 397
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 87
Mean 0.008901
Std Dev 0.9227
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

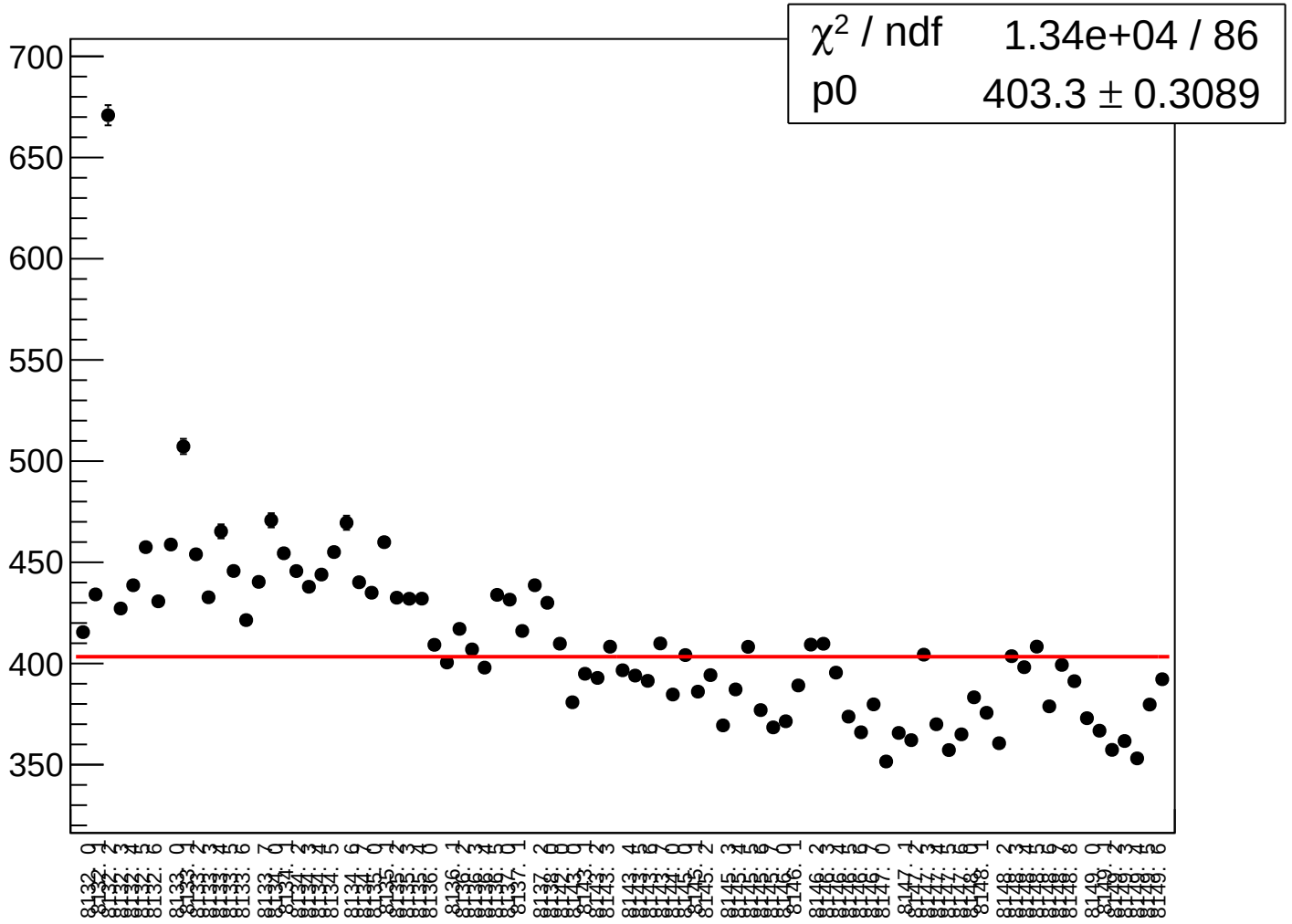
dit_asym_sam8_rms vs run

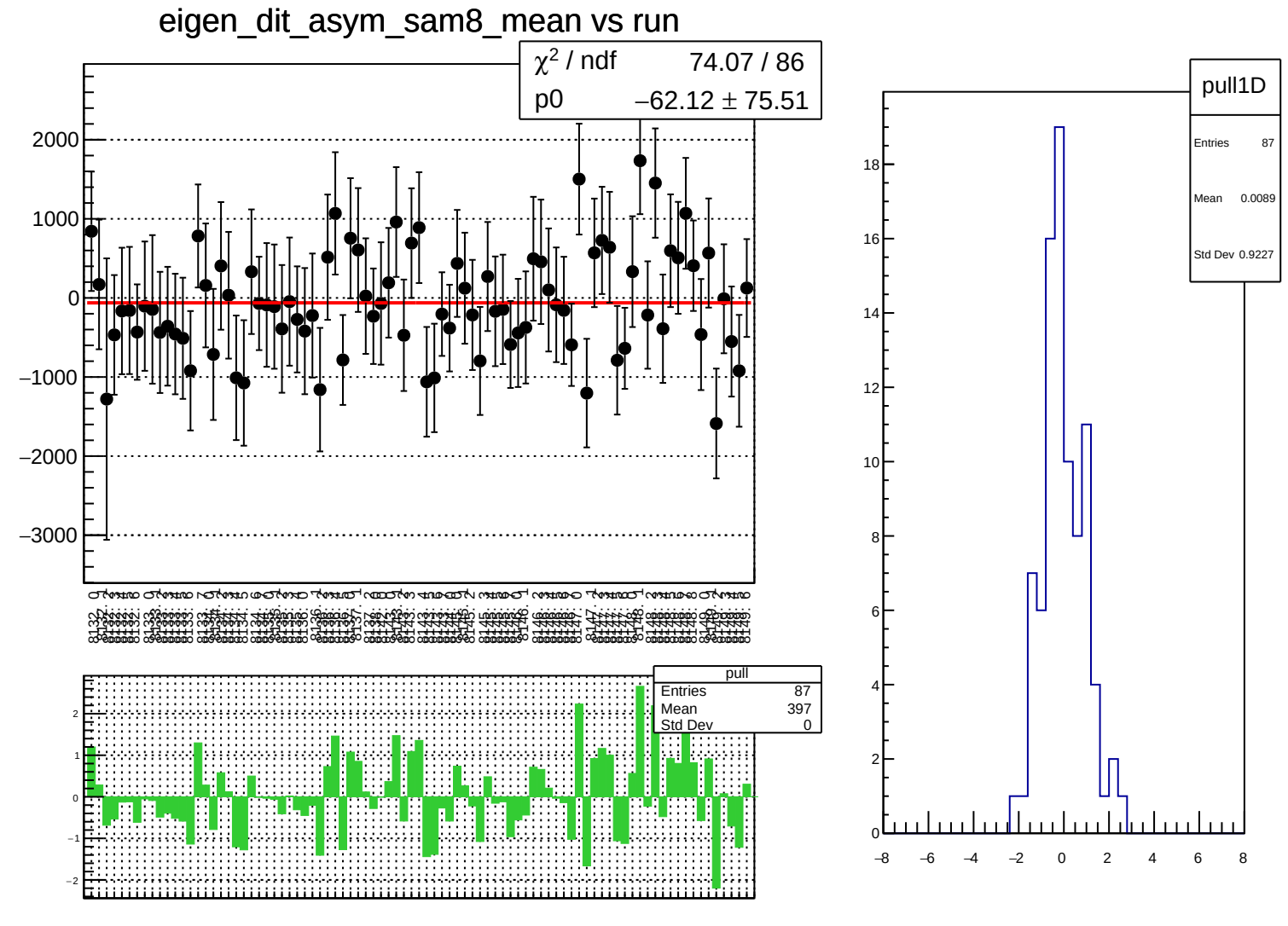


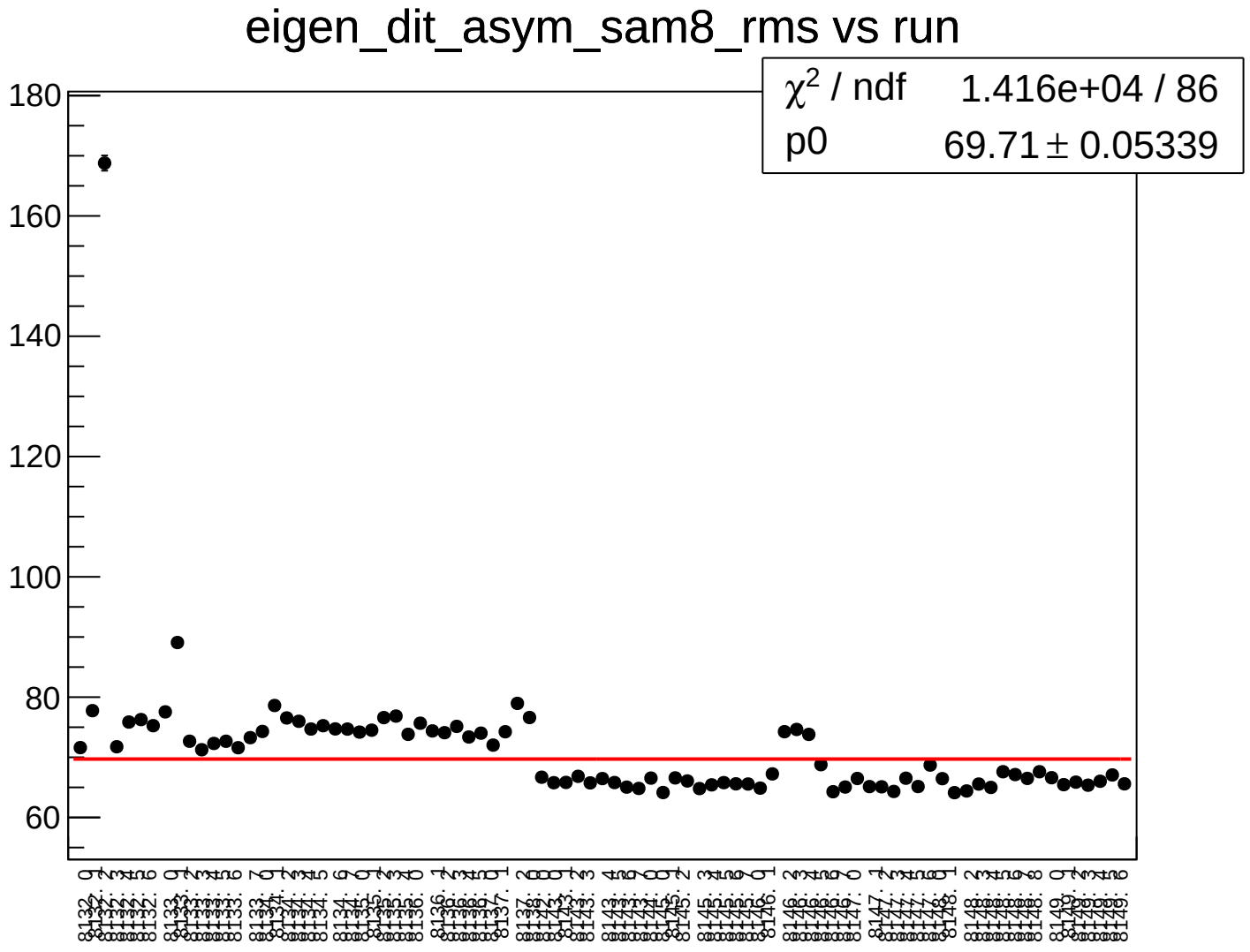

asym_sam8_dit_correction_mean vs run
χ² / ndf 94.2 / 86
p0 −447.1 ± 436.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean −851.2
Std Dev 0
2
1
0
−1
−2

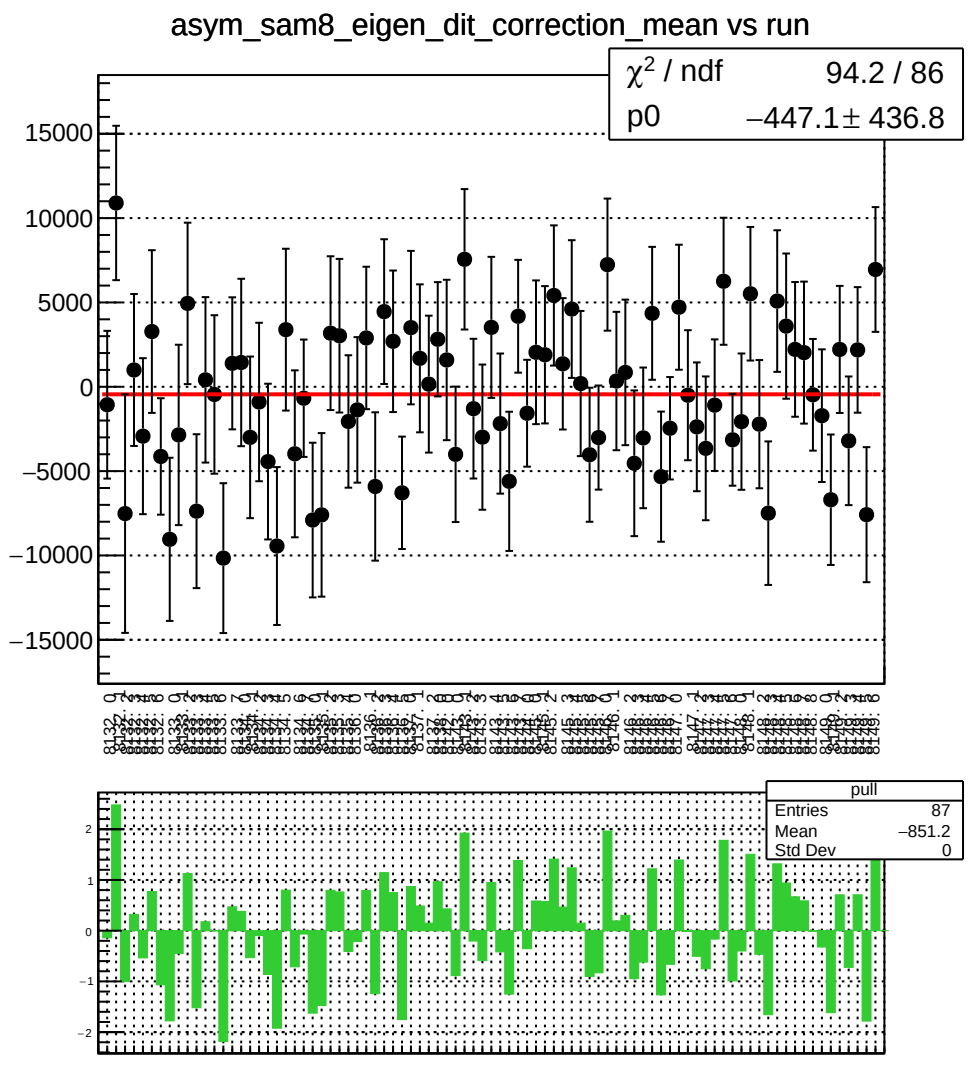

pull1D
Entries 87
Mean −0.003358
Std Dev 1.041
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

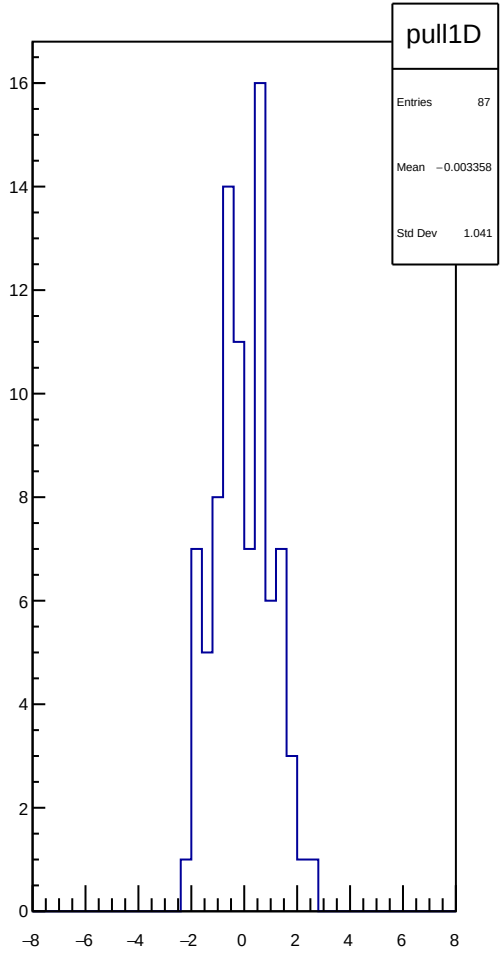
asym_sam8_dit_correction_rms vs run



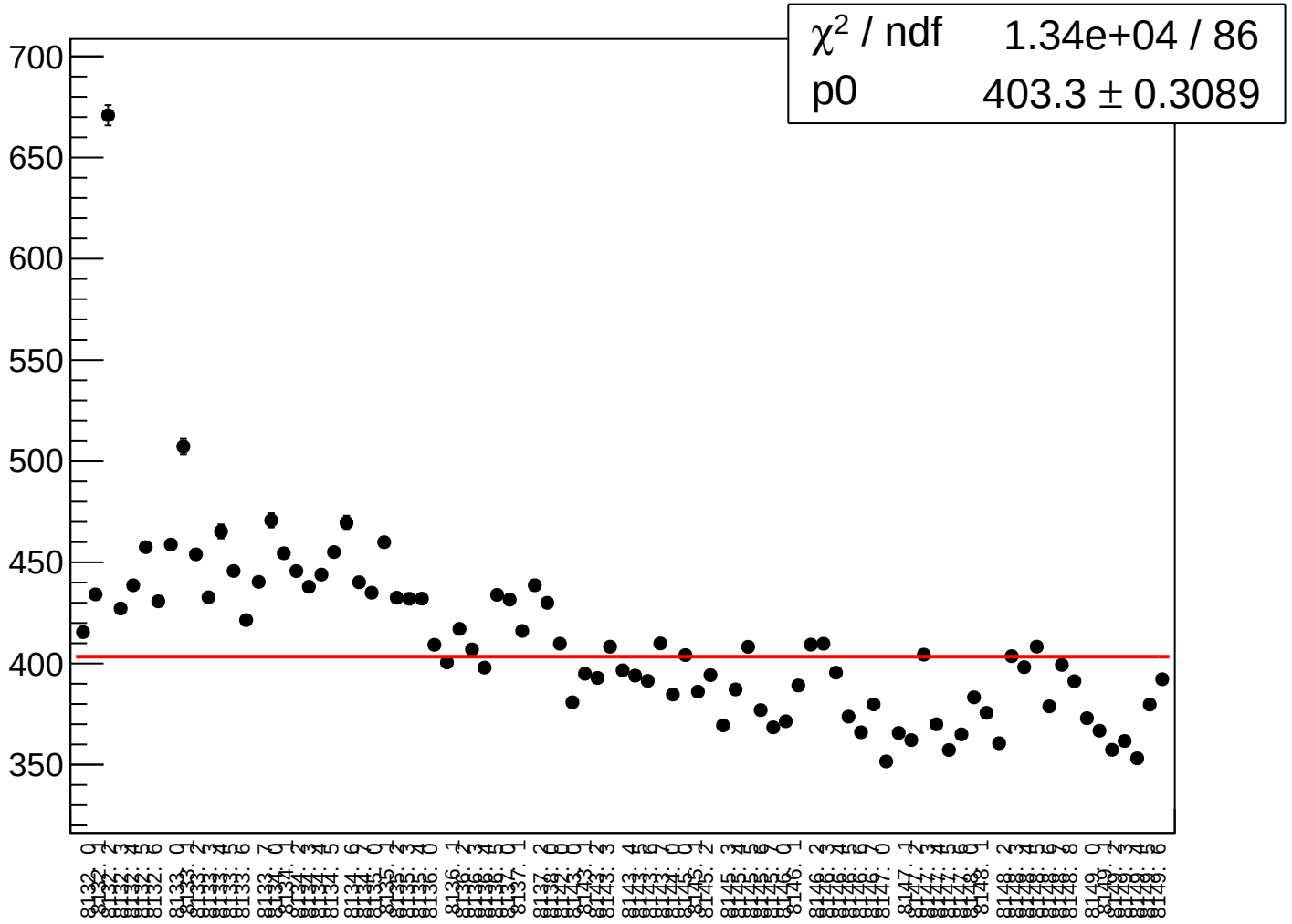

eigen_dit_asym_sam8_mean vs run
χ² / ndf 74.07 / 86
p0 −62.12 ± 75.51
2000
1000
0
−1000
−2000
−3000
pull
Entries 87
Mean 397
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.0089
Std Dev 0.9227
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

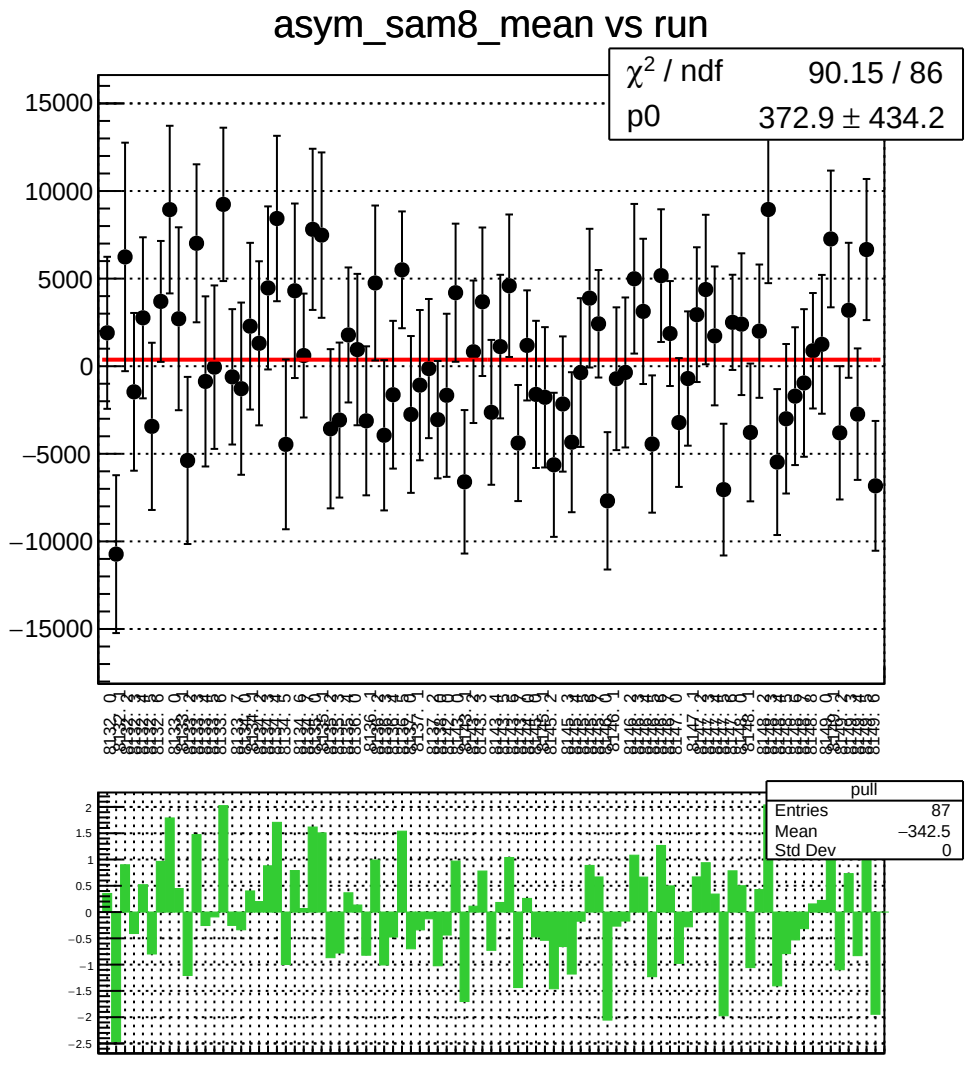

eigen_dit_asym_sam8_rms vs run
χ^2 / ndf 1.416e+04 / 86
p0 69.71 ± 0.05339
180
160
140
120
100
80
60

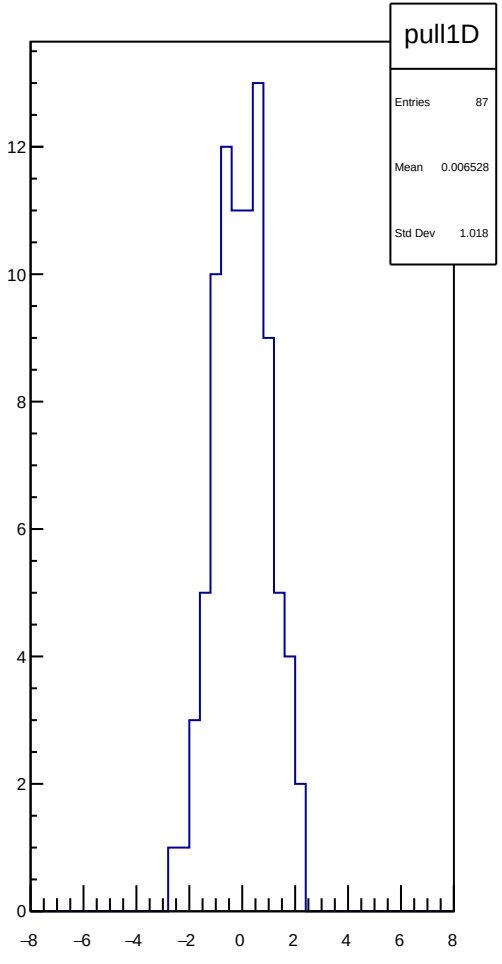

asym_sam8_eigen_dit_correction_mean vs run
χ² / ndf 94.2 / 86
p0 −447.1 ± 436.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean −851.2
Std Dev 0
2
1
0
−1
−2

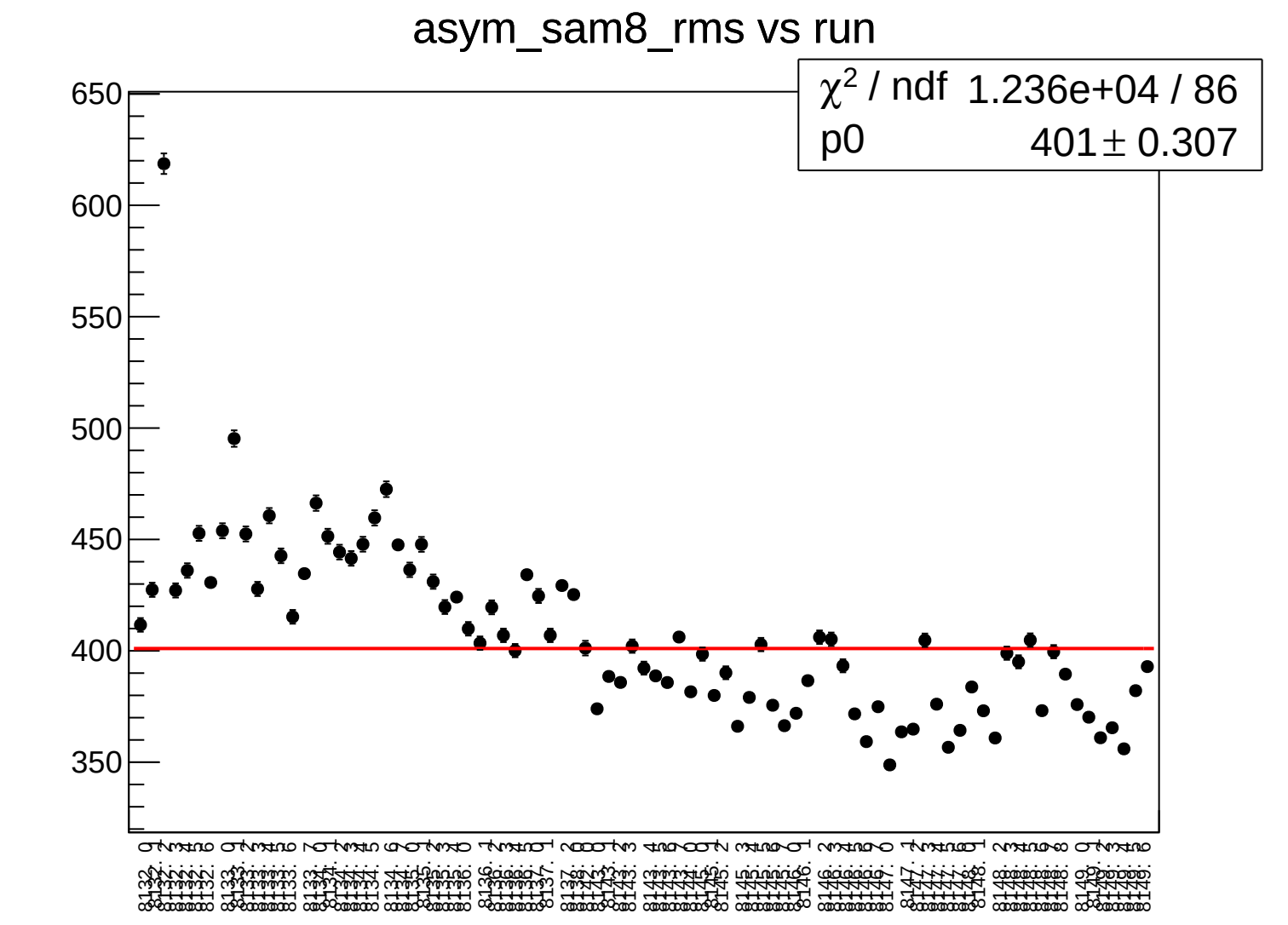

pull1D
Entries 87
Mean −0.003358
Std Dev 1.041
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

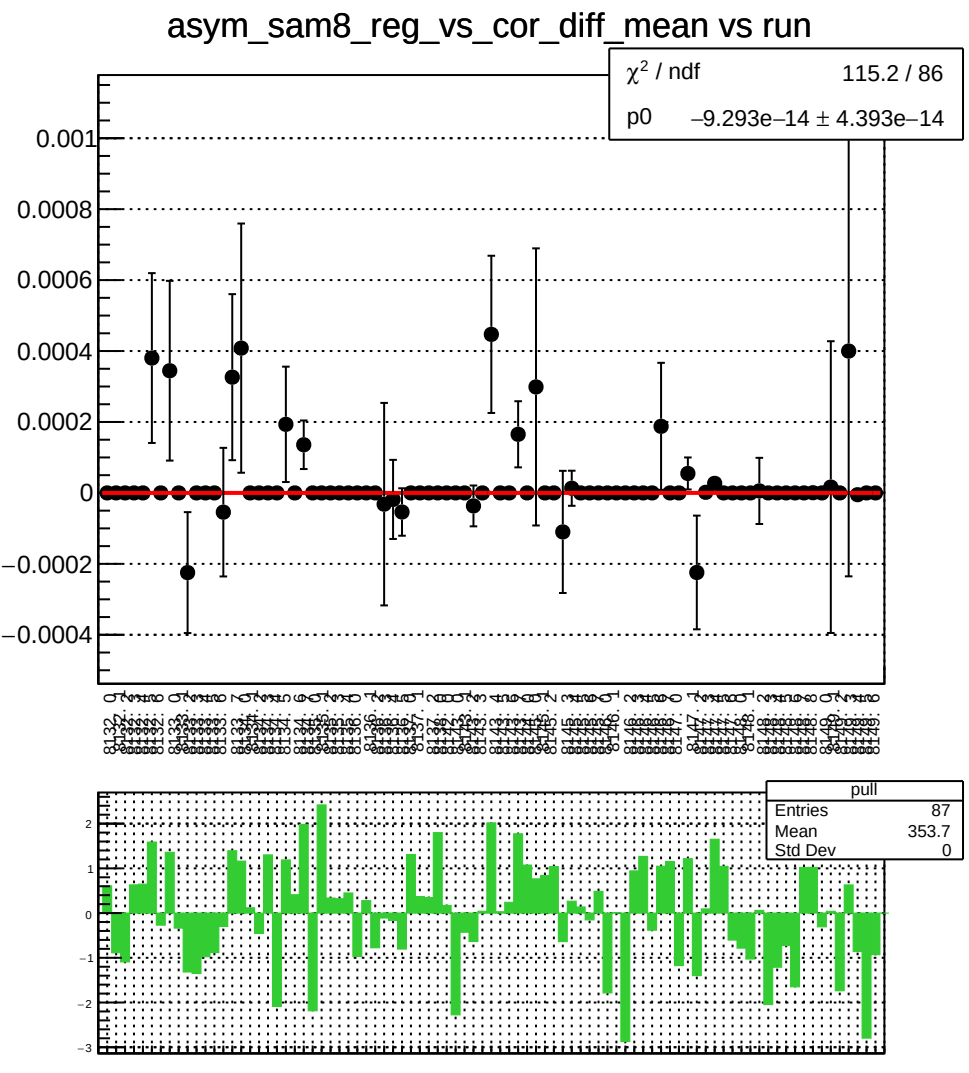
asym_sam8_eigen_dit_correction_rms vs run

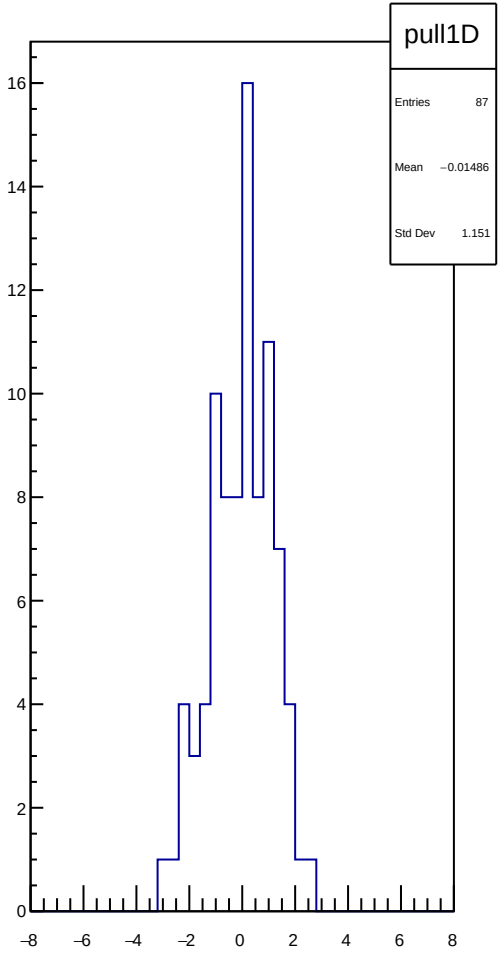


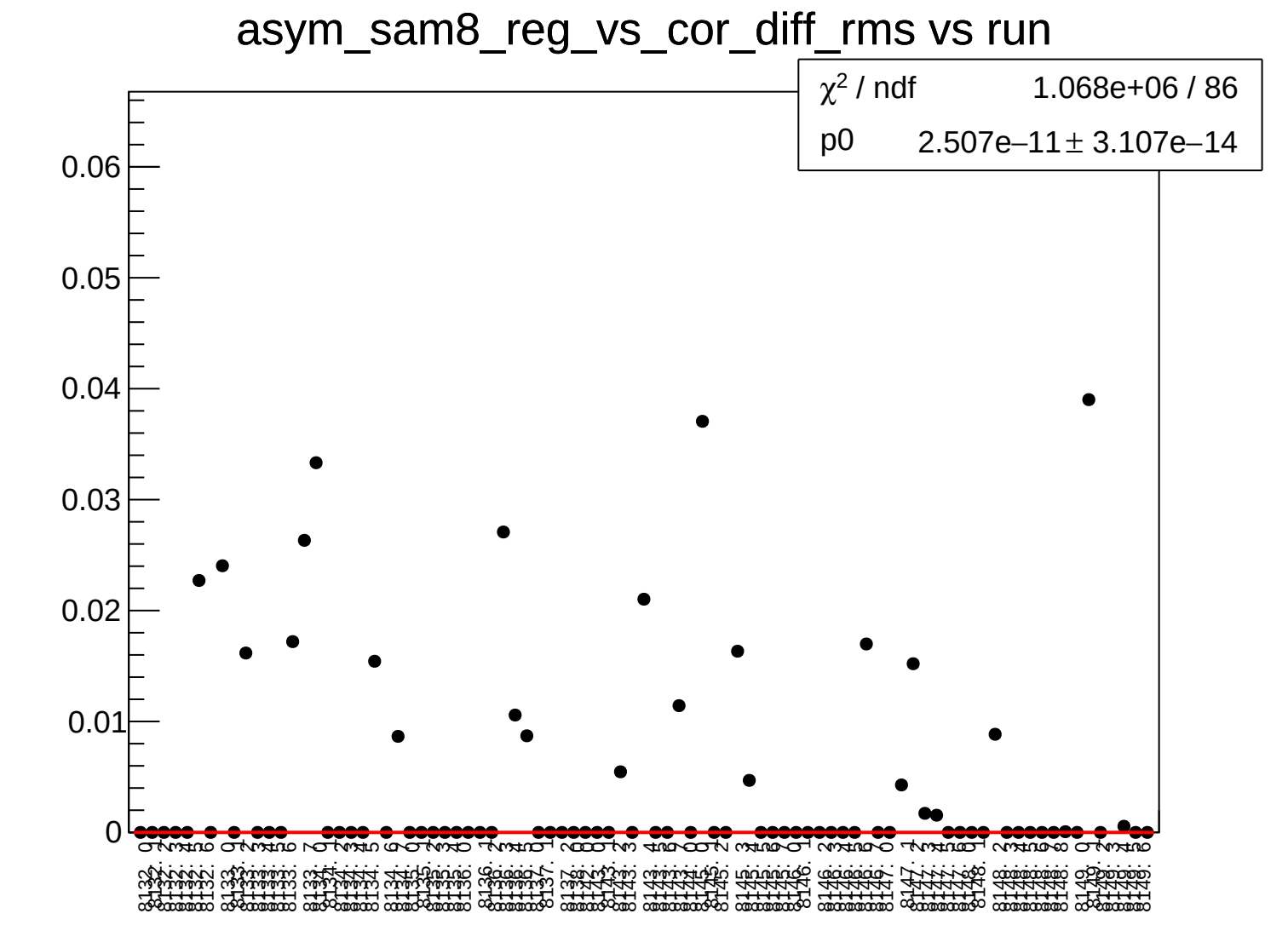

asym_sam8_mean vs run
χ² / ndf 90.15 / 86
p0 372.9 ± 434.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean −342.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

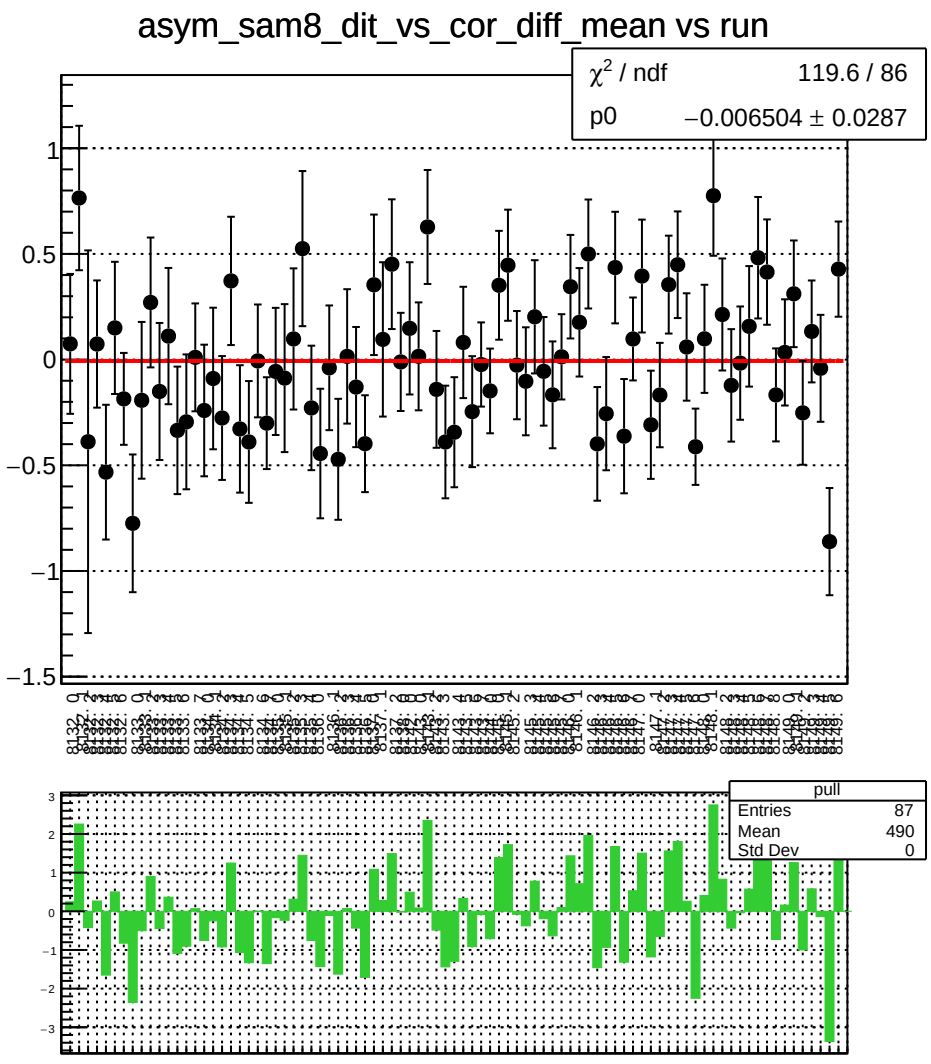

pull1D
Entries 87
Mean 0.006528
Std Dev 1.018
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

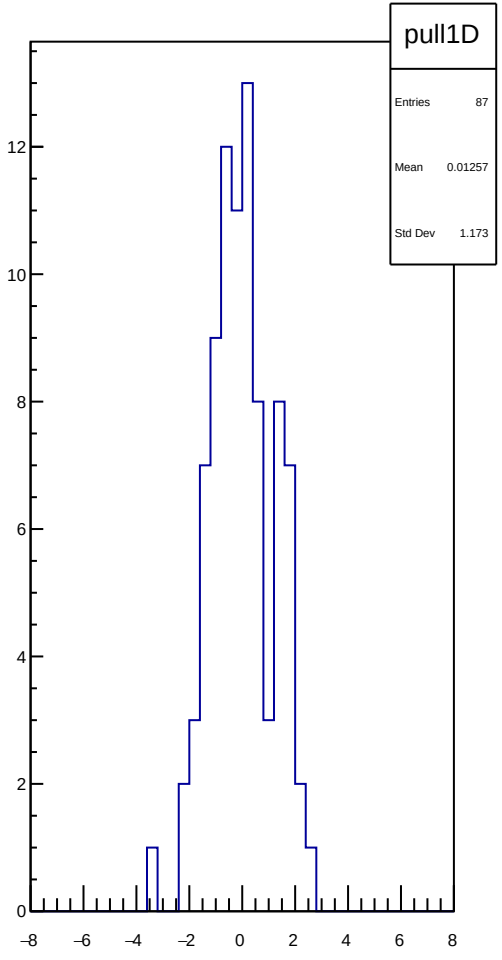

asym_sam8_rms vs run
χ² / ndf 1.236e+04 / 86
p0 401 ± 0.307
650
600
550
500
450
400
350

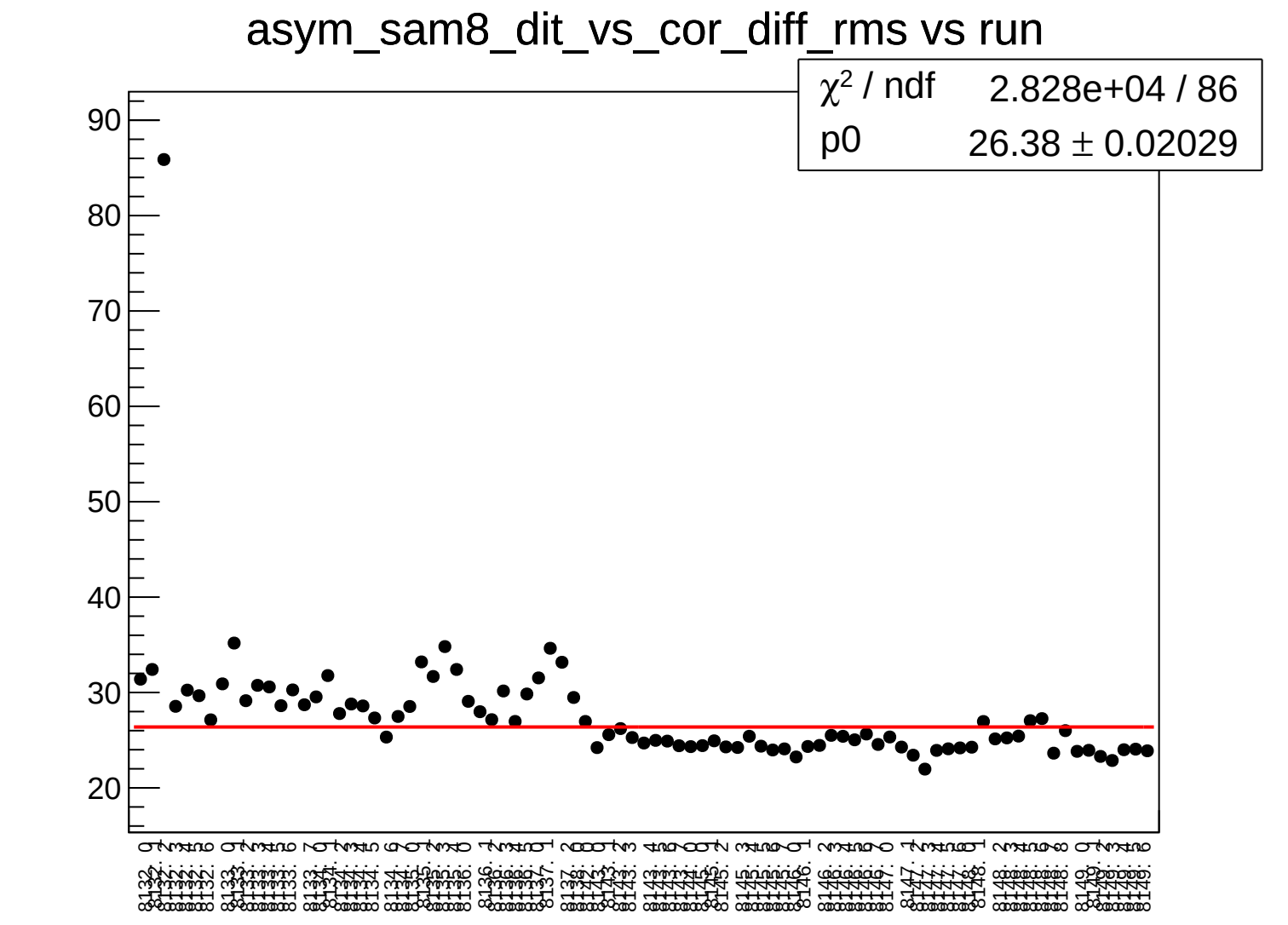

asym_sam8_reg_vs_cor_diff_mean vs run
χ² / ndf 115.2 / 86
p0 −9.293e−14 ± 4.393e−14
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
pull
Entries 87
Mean 353.7
Std Dev 0
2
1
0
−1
−2
−3

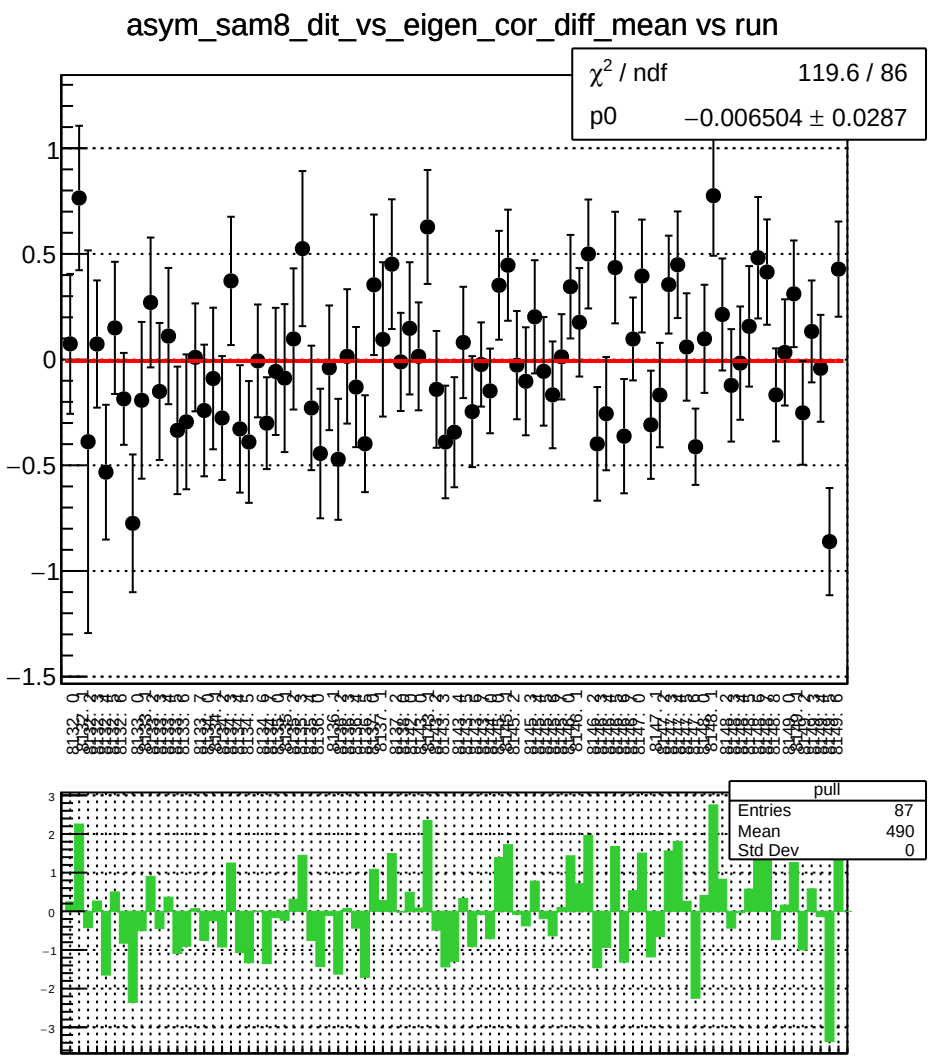

pull1D
Entries 87
Mean −0.01486
Std Dev 1.151
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

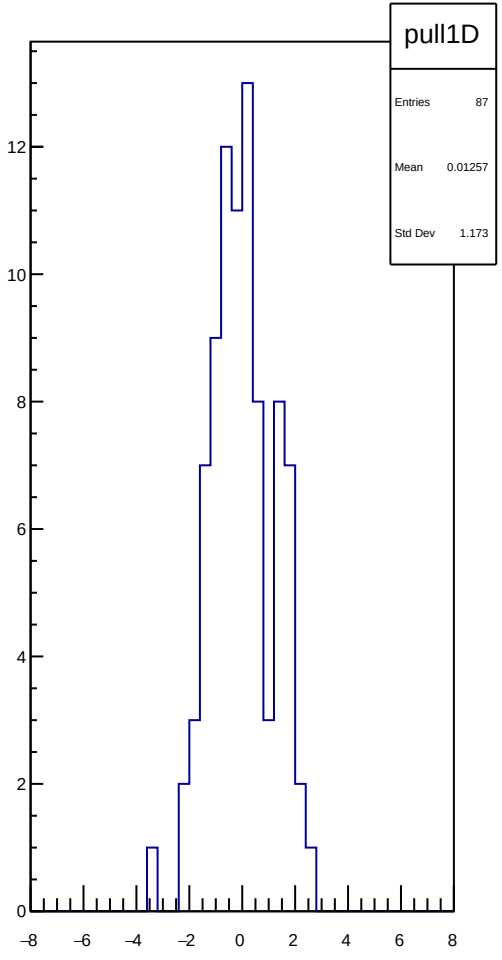

asym_sam8_reg_vs_cor_diff_rms vs run
χ² / ndf 1.068e+06 / 86
p0 2.507e−11 ± 3.107e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

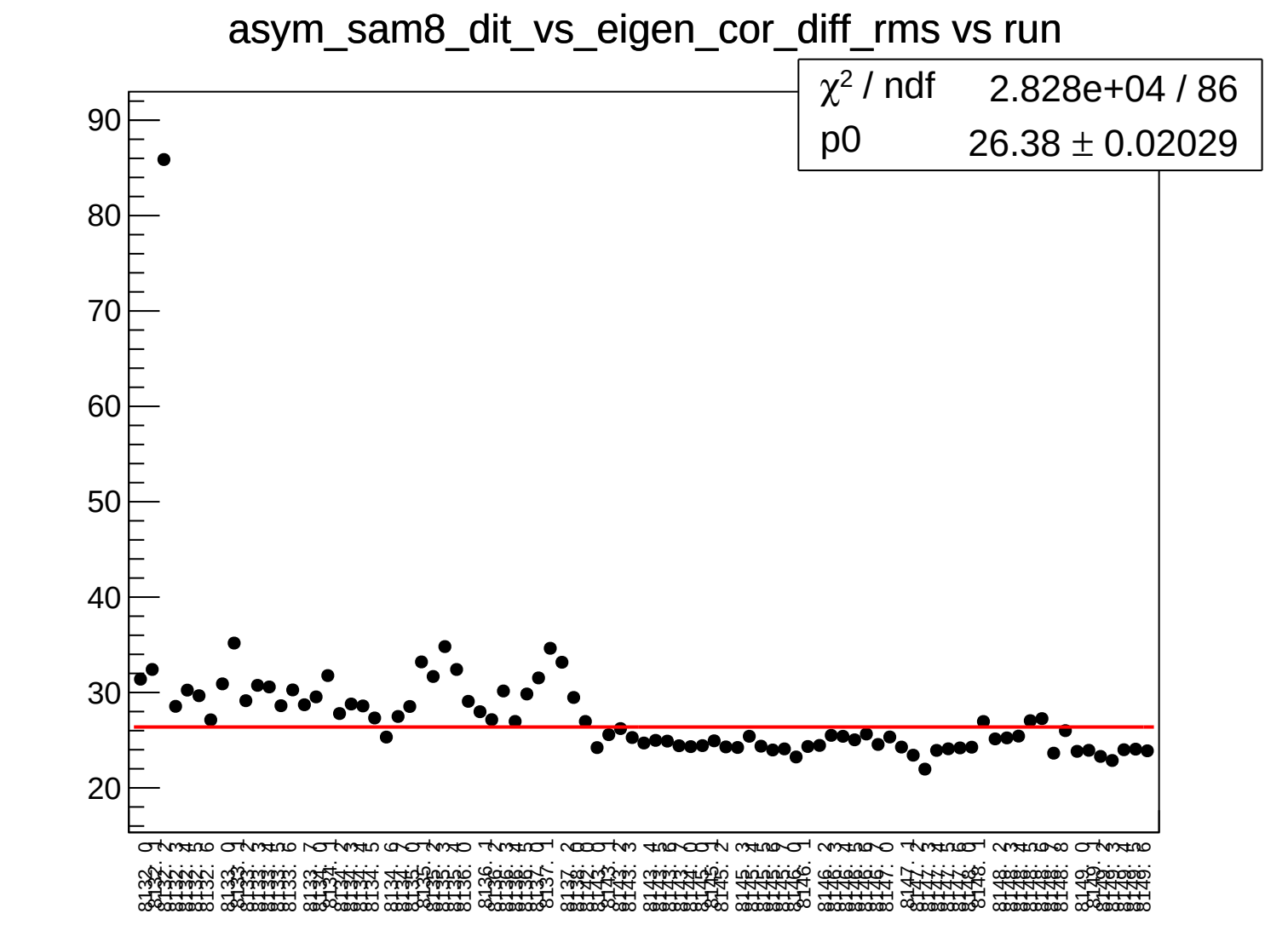

asym_sam8_dit_vs_cor_diff_mean vs run
χ² / ndf 119.6 / 86
p0 −0.006504 ± 0.0287
pull
Entries 87
Mean 490
Std Dev 0

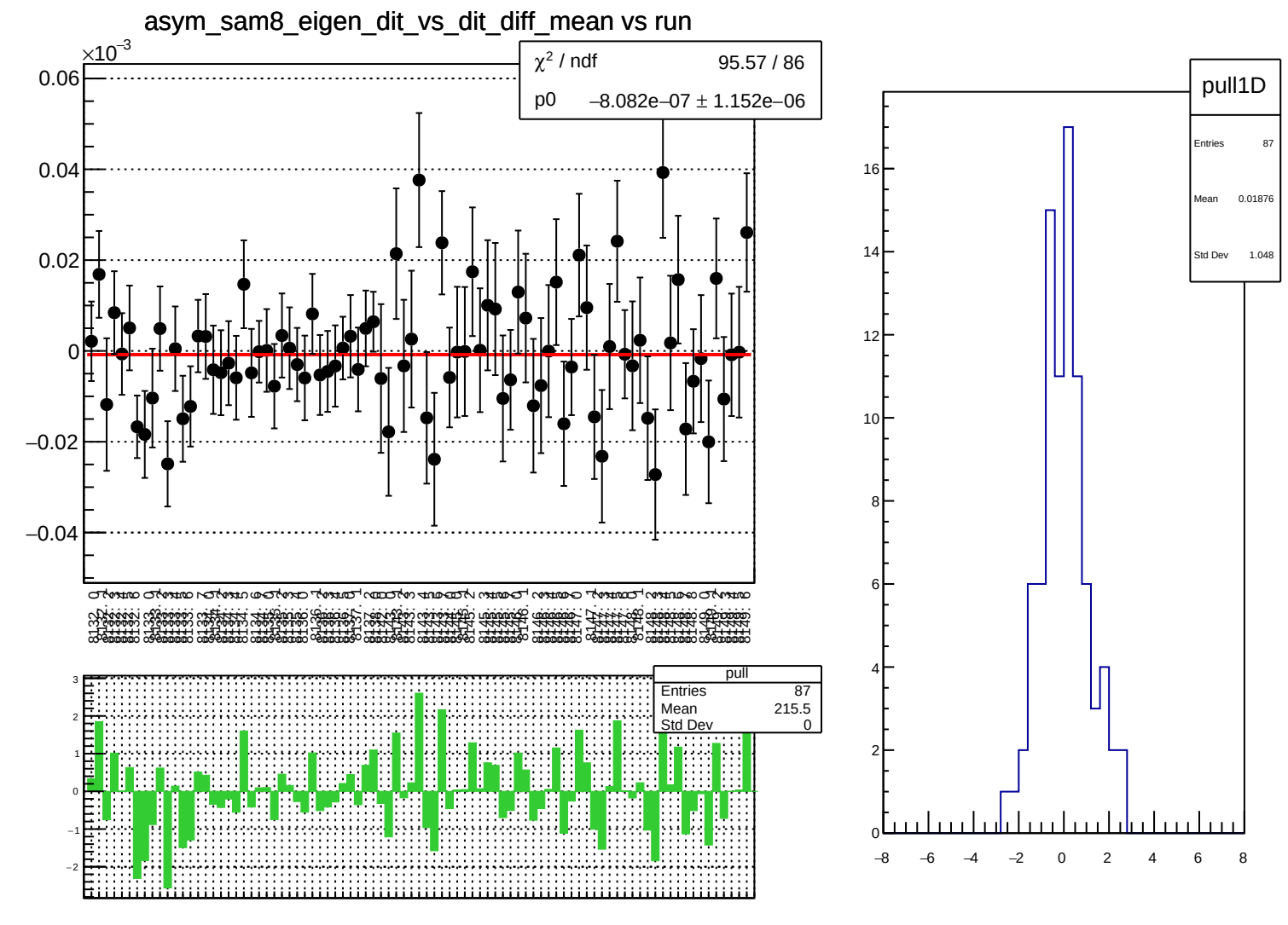

pull1D
Entries 87
Mean 0.01257
Std Dev 1.173

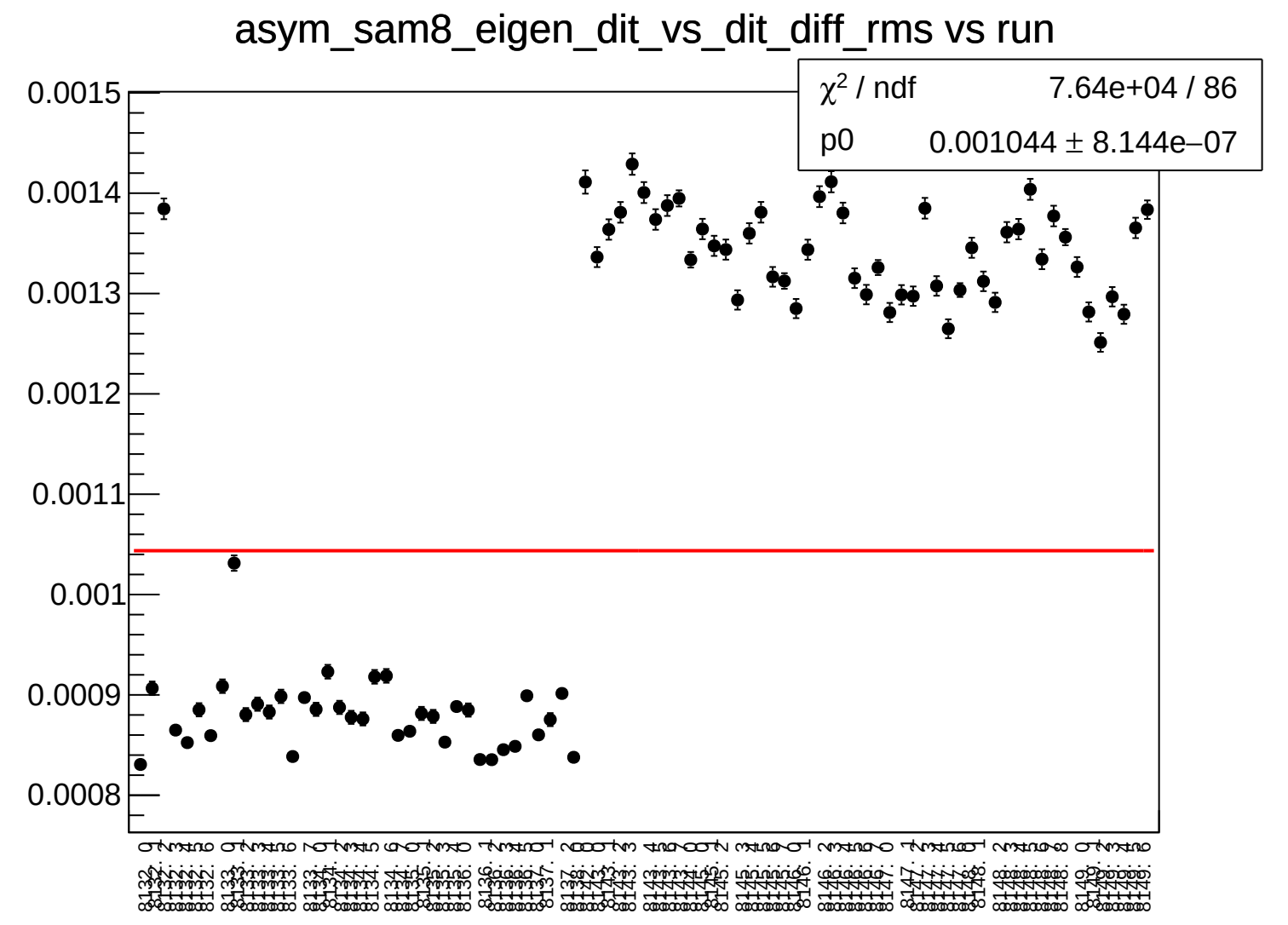

asym_sam8_dit_vs_cor_diff_rms vs run
χ² / ndf 2.828e+04 / 86
p0 26.38 ± 0.02029
90
80
70
60
50
40
30
20

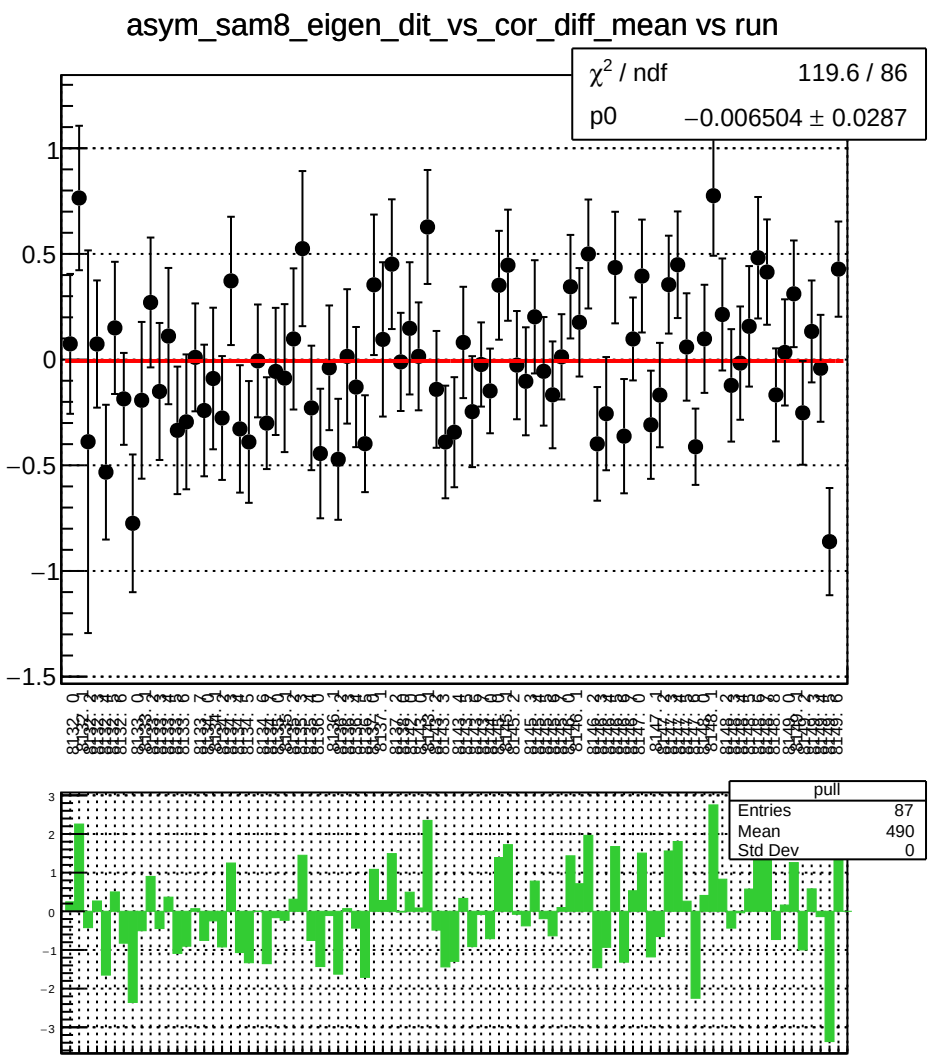

asym_sam8_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 119.6 / 86
p0 −0.006504 ± 0.0287
pull
Entries 87
Mean 490
Std Dev 0

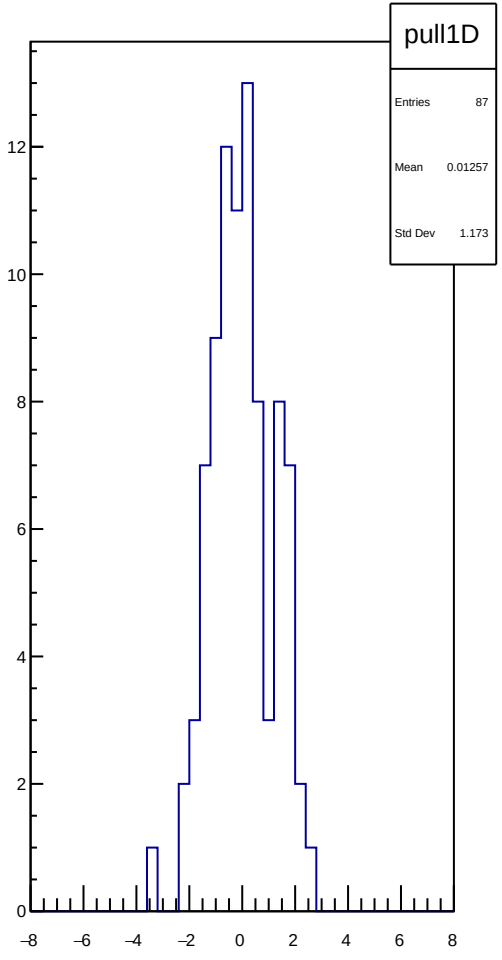

pull1D
Entries 87
Mean 0.01257
Std Dev 1.173

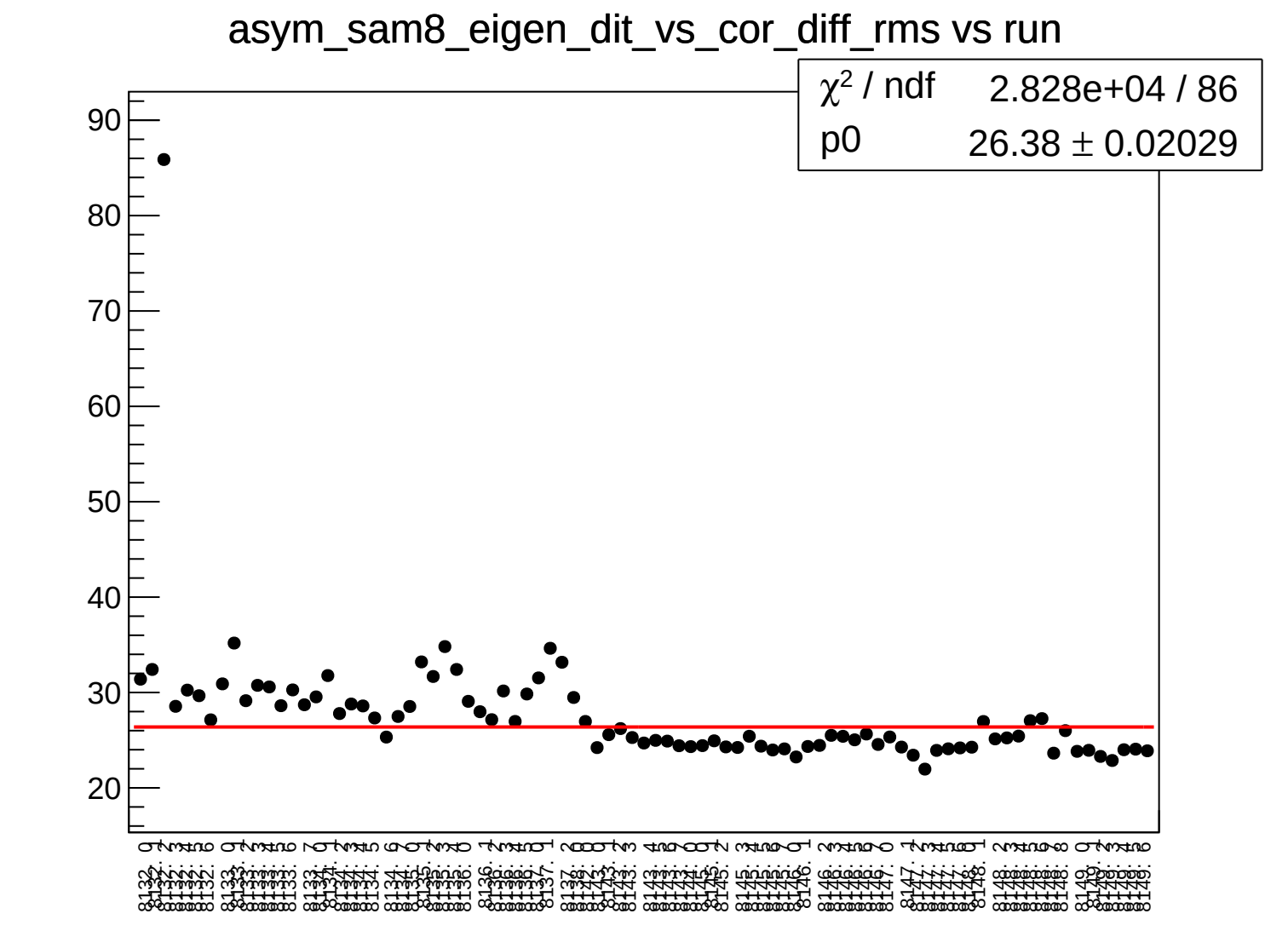

asym_sam8_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.828e+04 / 86
p0 26.38 ± 0.02029
90
80
70
60
50
40
30
20

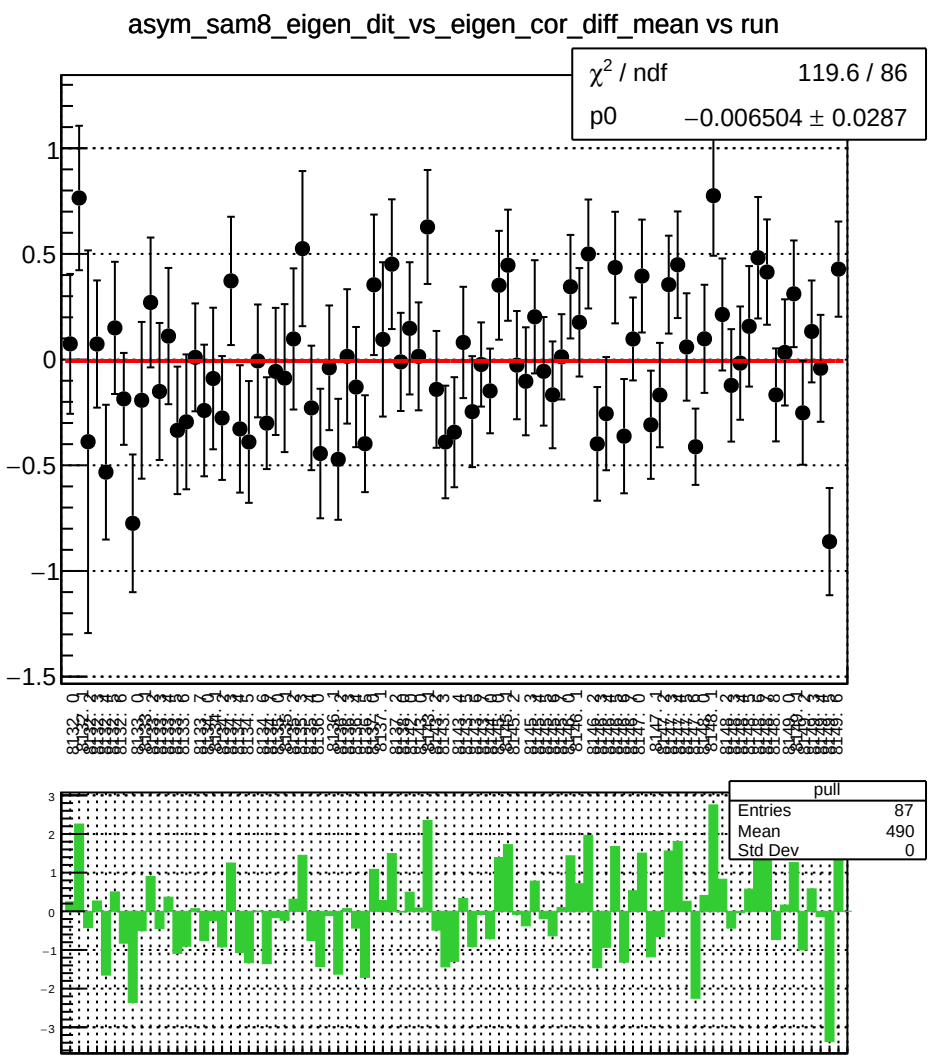

asym_sam8_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.57 / 86
p0 −8.082e−07 ± 1.152e−06
pull
Entries 87
Mean 215.5
Std Dev 0
pull1D
Entries 87
Mean 0.01876
Std Dev 1.048

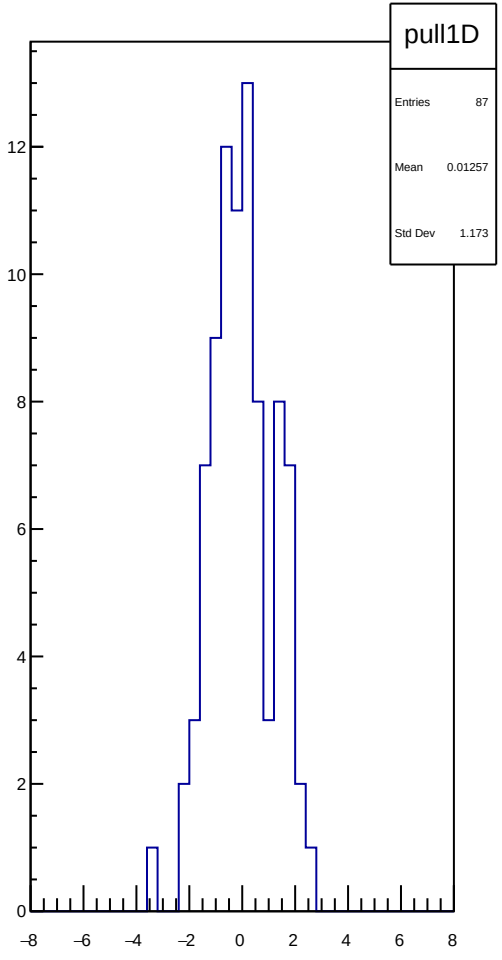

asym_sam8_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.64e+04 / 86
p0 0.001044 ± 8.144e−07
0.0015
0.0014
0.0013
0.0012
0.0011
0.001
0.0009
0.0008

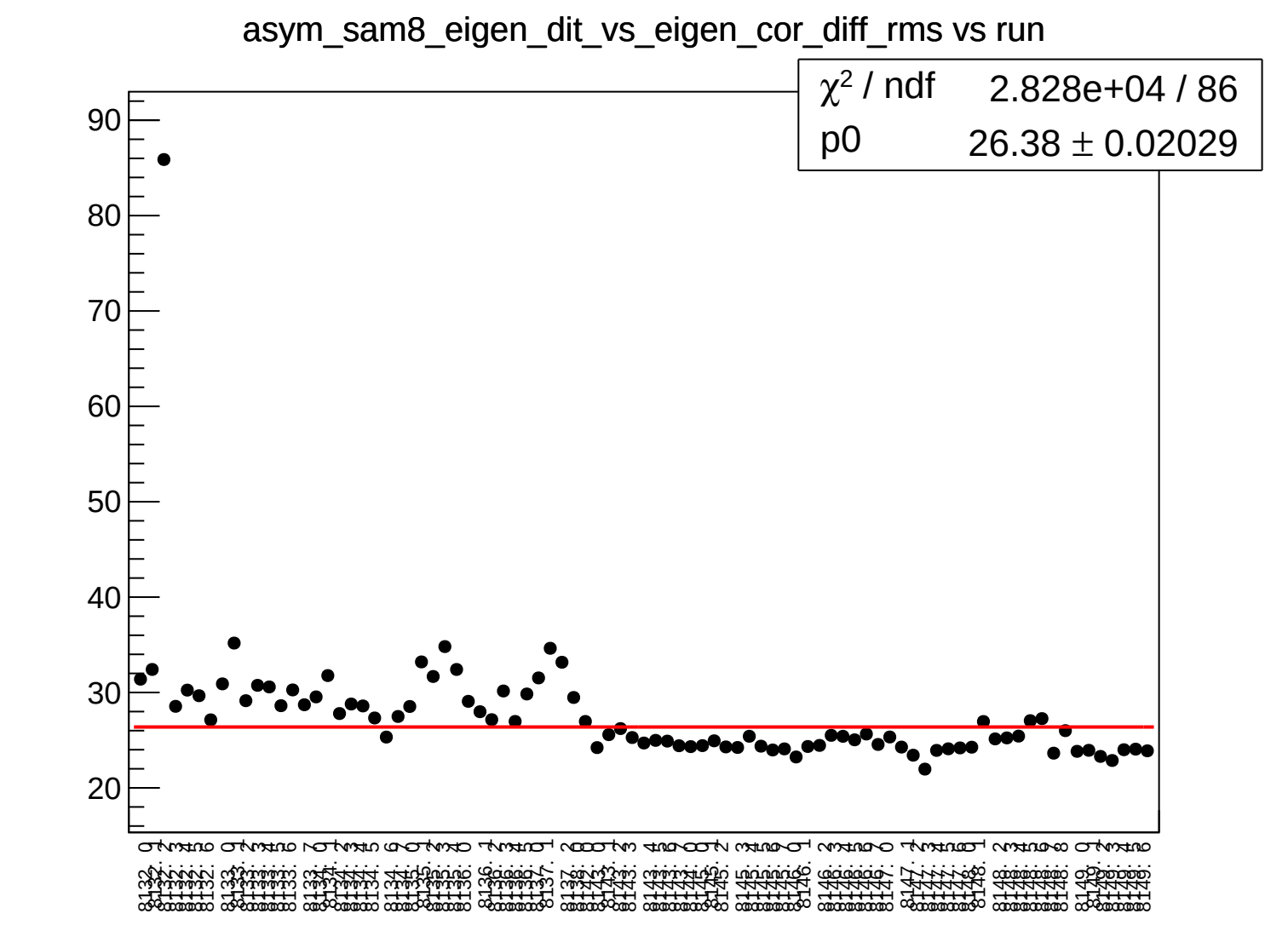

asym_sam8_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 119.6 / 86
p0 −0.006504 ± 0.0287
pull
Entries 87
Mean 490
Std Dev 0

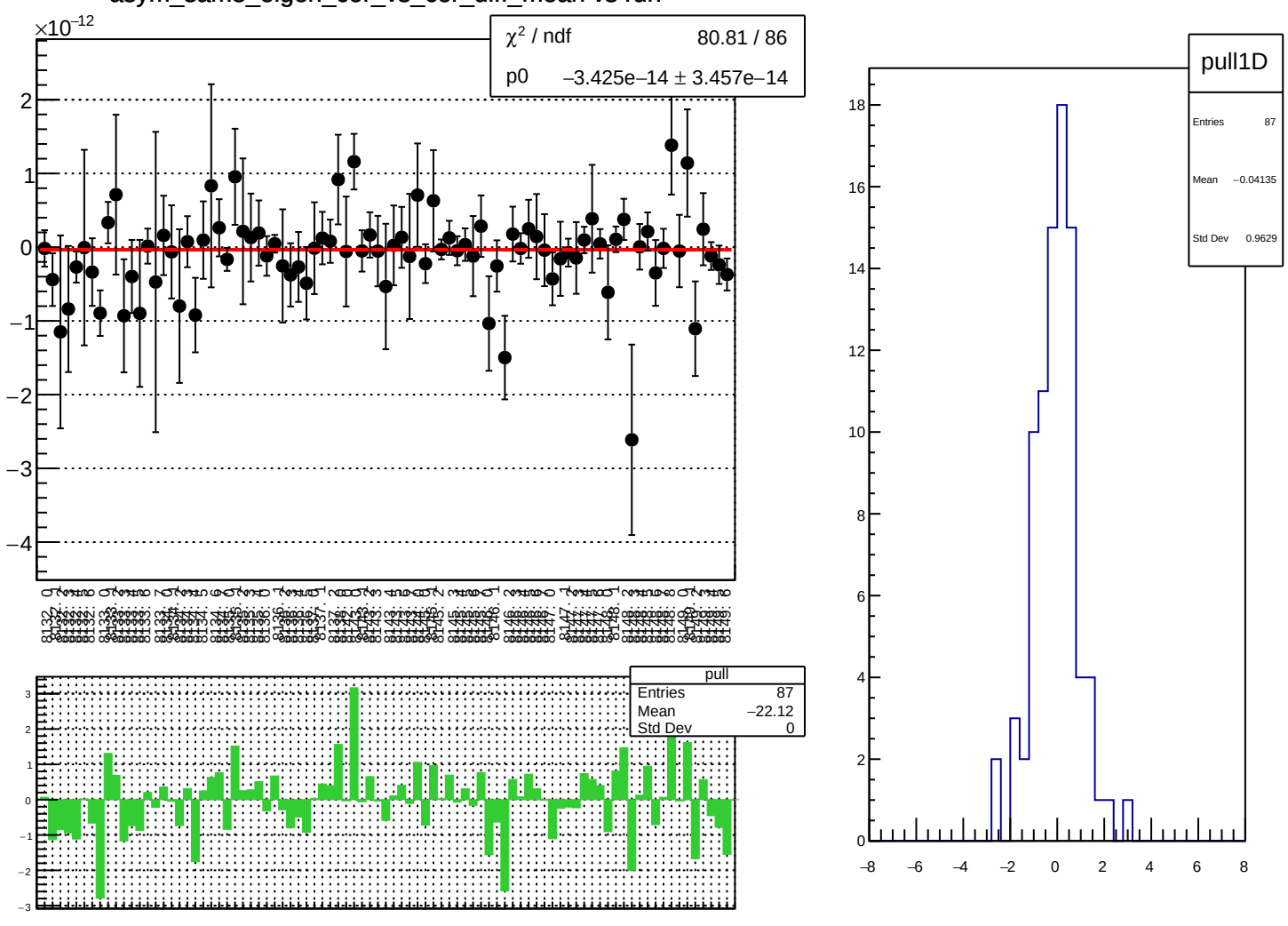

pull1D
Entries 87
Mean 0.01257
Std Dev 1.173

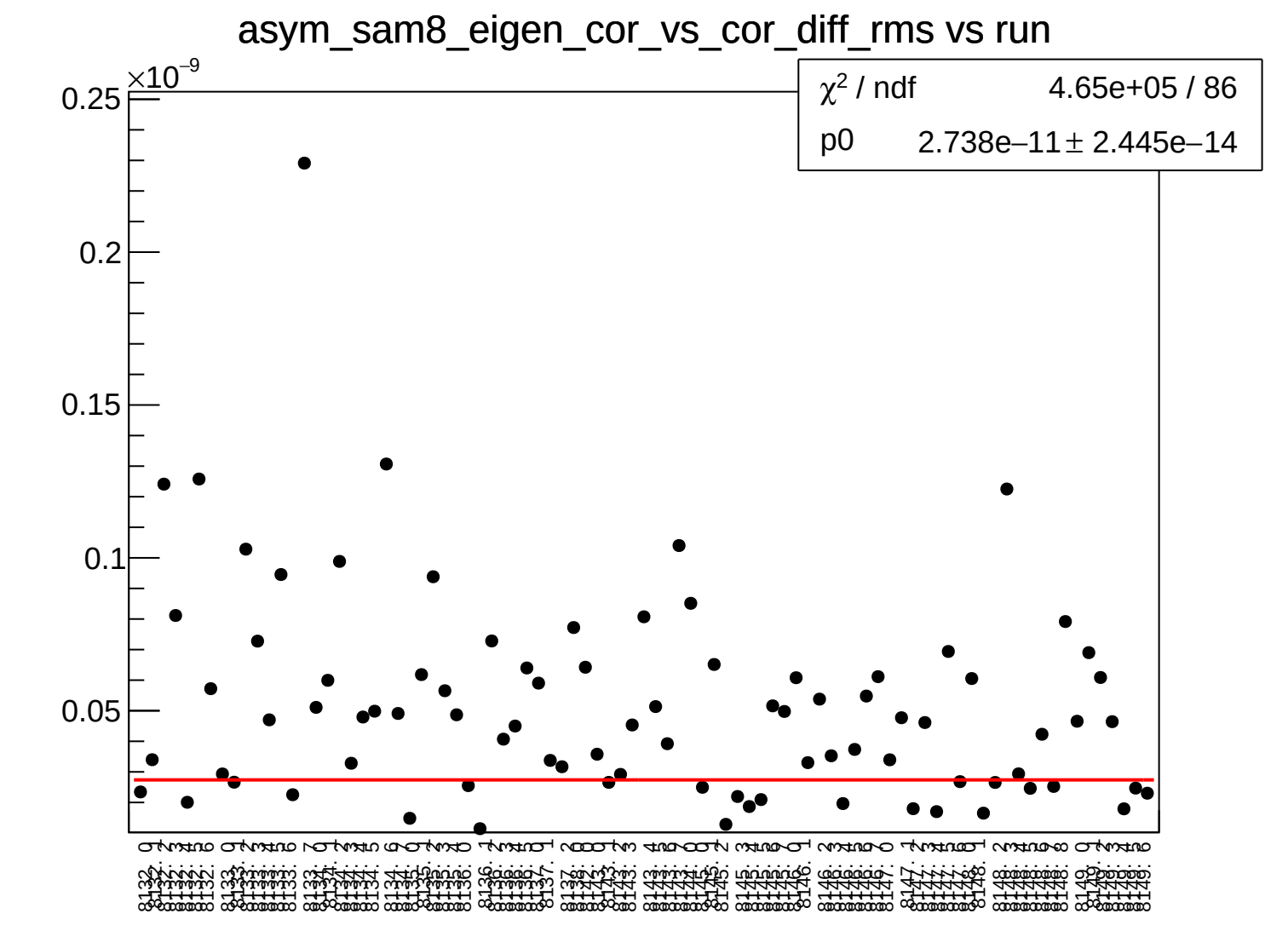

asym_sam8_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.828e+04 / 86
p0 26.38 ± 0.02029
90
80
70
60
50
40
30
20

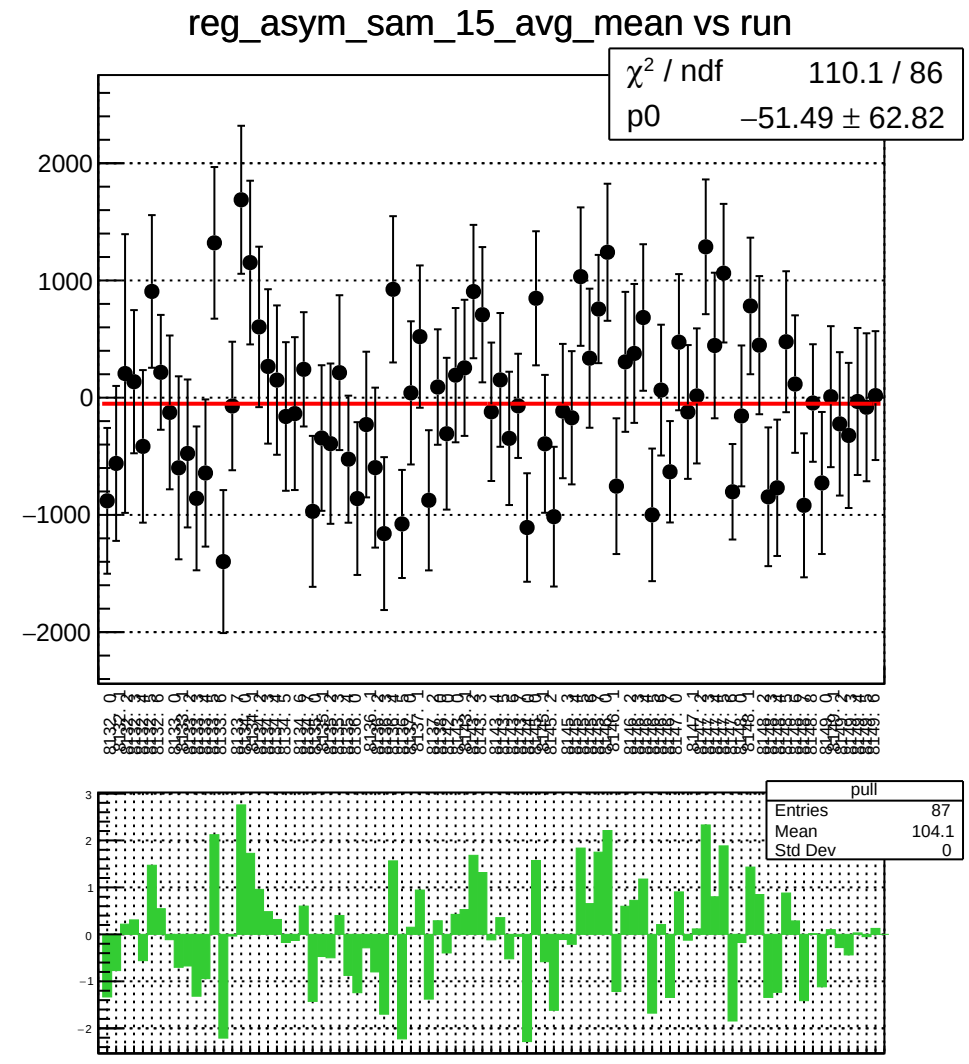

asym_sam8_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 119.6 / 86
p0 −0.006504 ± 0.0287
pull
Entries 87
Mean 490
Std Dev 0

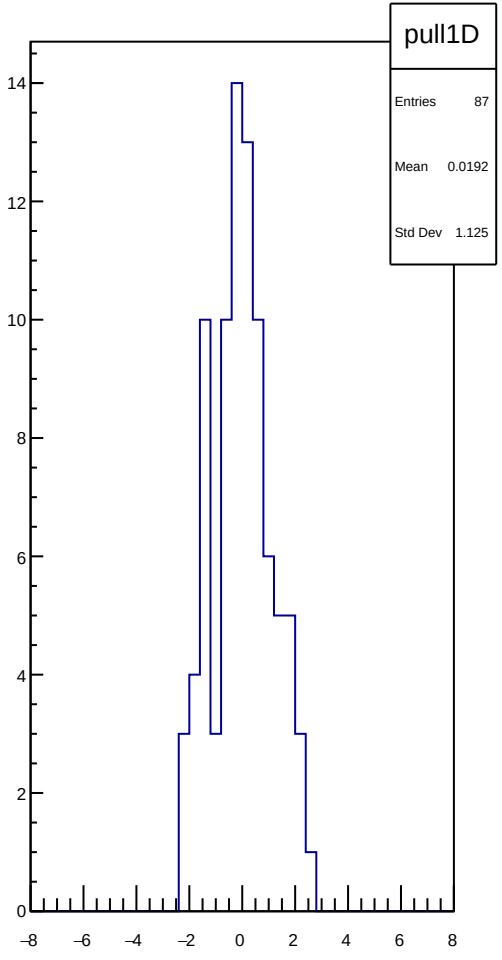

pull1D
Entries 87
Mean 0.01257
Std Dev 1.173

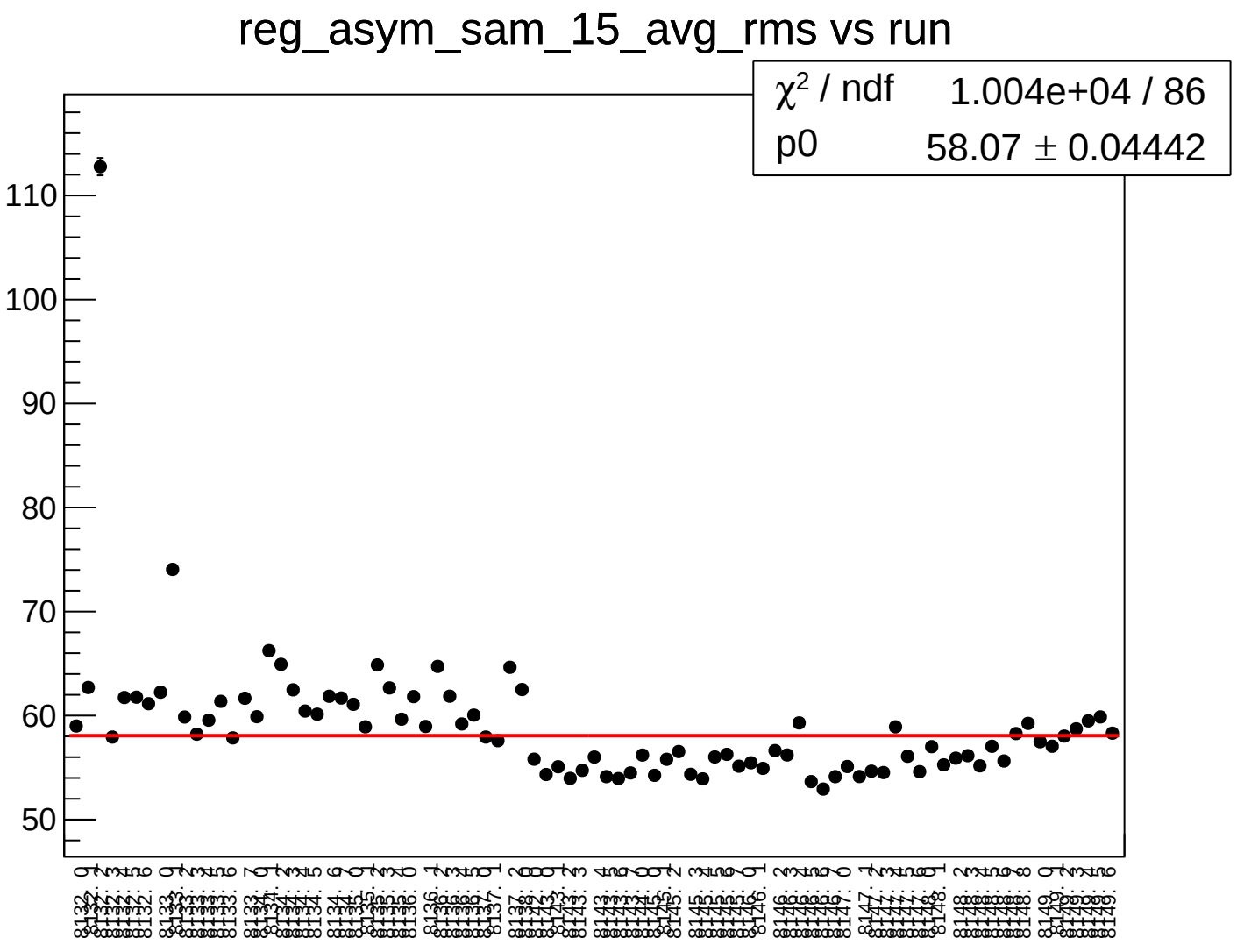

asym_sam8_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.828e+04 / 86
p0 26.38 ± 0.02029
90
80
70
60
50
40
30
20

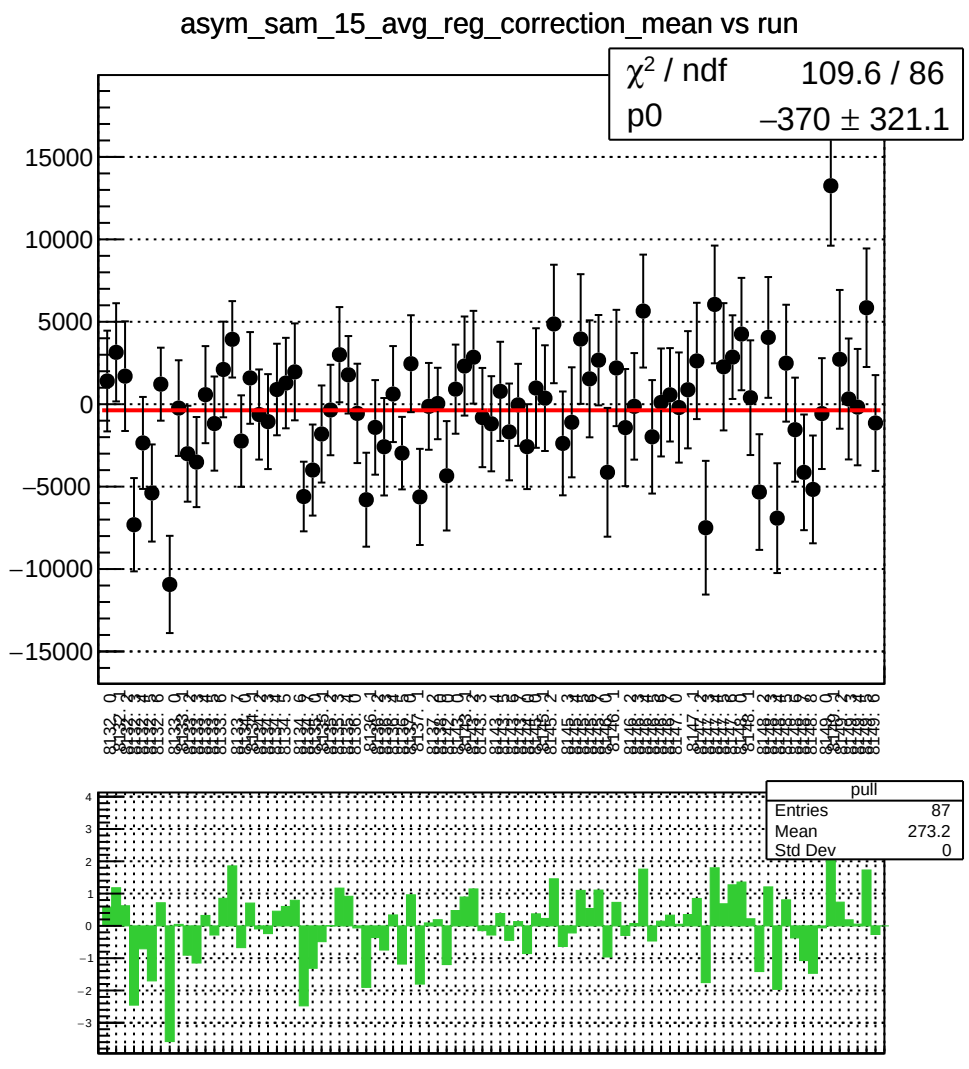

asym_sam8_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.81 / 86
p0 −3.425e−14 ± 3.457e−14
pull
Entries 87
Mean −22.12
Std Dev 0
pull1D
Entries 87
Mean −0.04135
Std Dev 0.9629

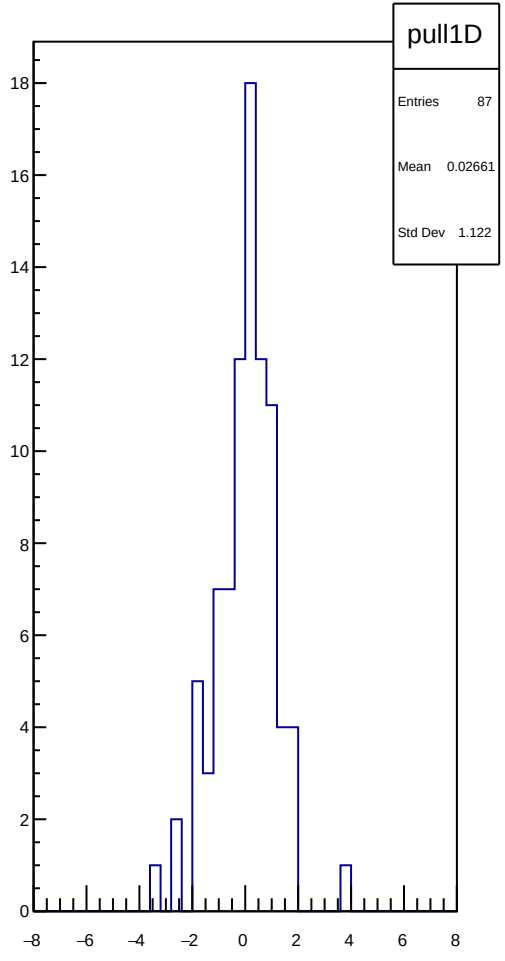

asym_sam8_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.25
0.2
0.15
0.1
0.05
χ² / ndf 4.65e+05 / 86
p0 2.738e−11 ± 2.445e−14

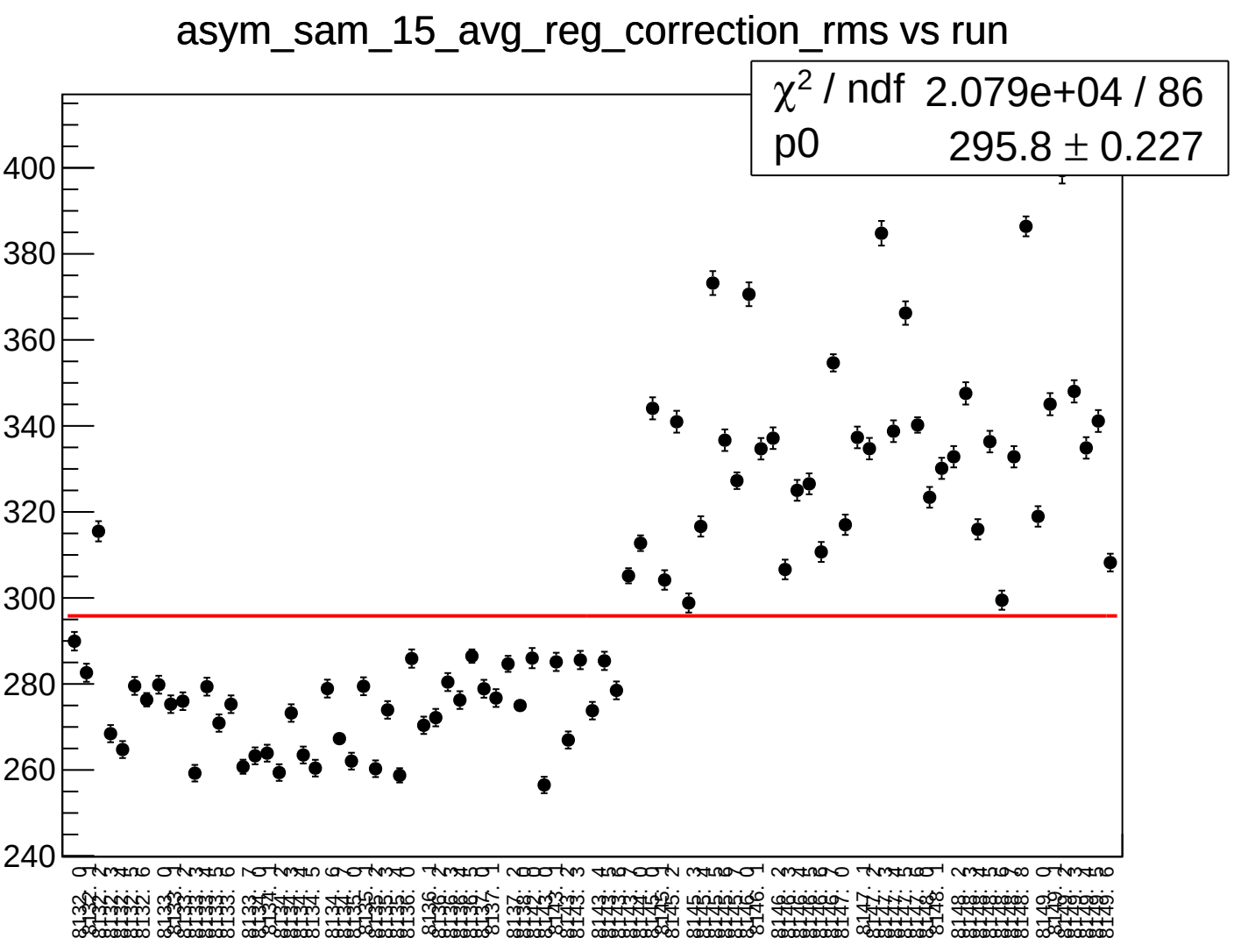

reg_asym_sam_15_avg_mean vs run
χ² / ndf 110.1 / 86
p0 −51.49 ± 62.82
2000
1000
0
−1000
−2000
pull
Entries 87
Mean 104.1
Std Dev 0
3
2
1
0
−1
−2

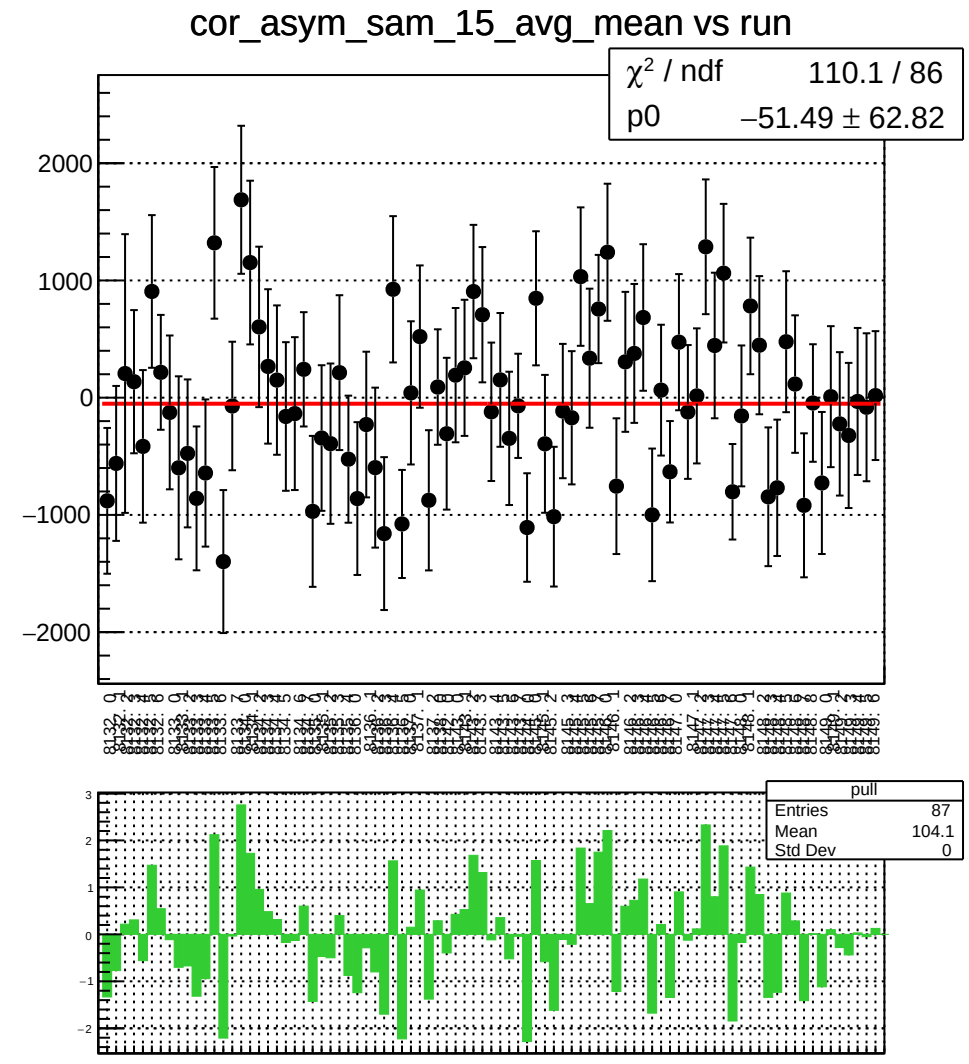

pull1D
Entries 87
Mean 0.0192
Std Dev 1.125
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

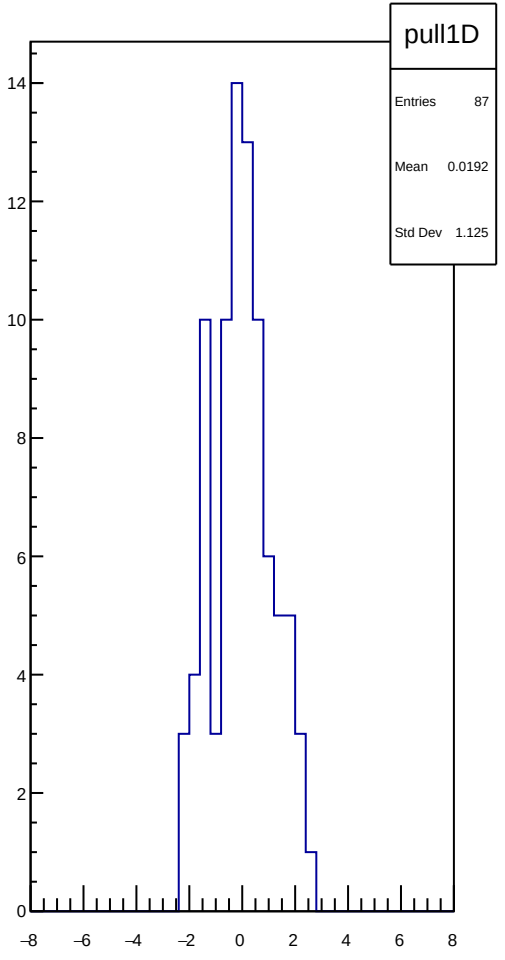

reg_asym_sam_15_avg_rms vs run
χ^2 / ndf 1.004e+04 / 86
p0 58.07 ± 0.04442
110
100
90
80
70
60
50

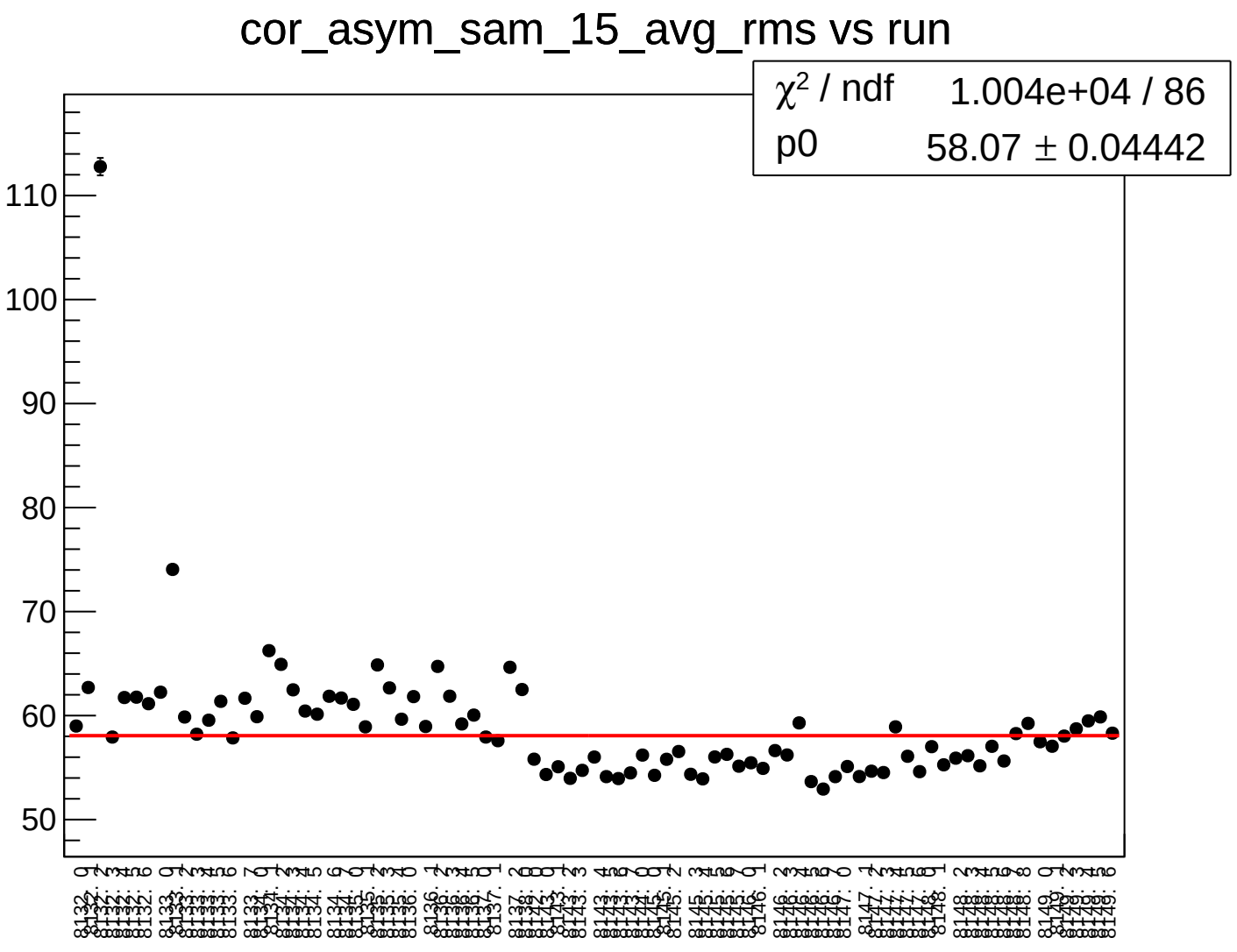

asym_sam_15_avg_reg_correction_mean vs run
χ² / ndf 109.6 / 86
p0 −370 ± 321.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean 273.2
Std Dev 0
4
3
2
1
0
−1
−2
−3

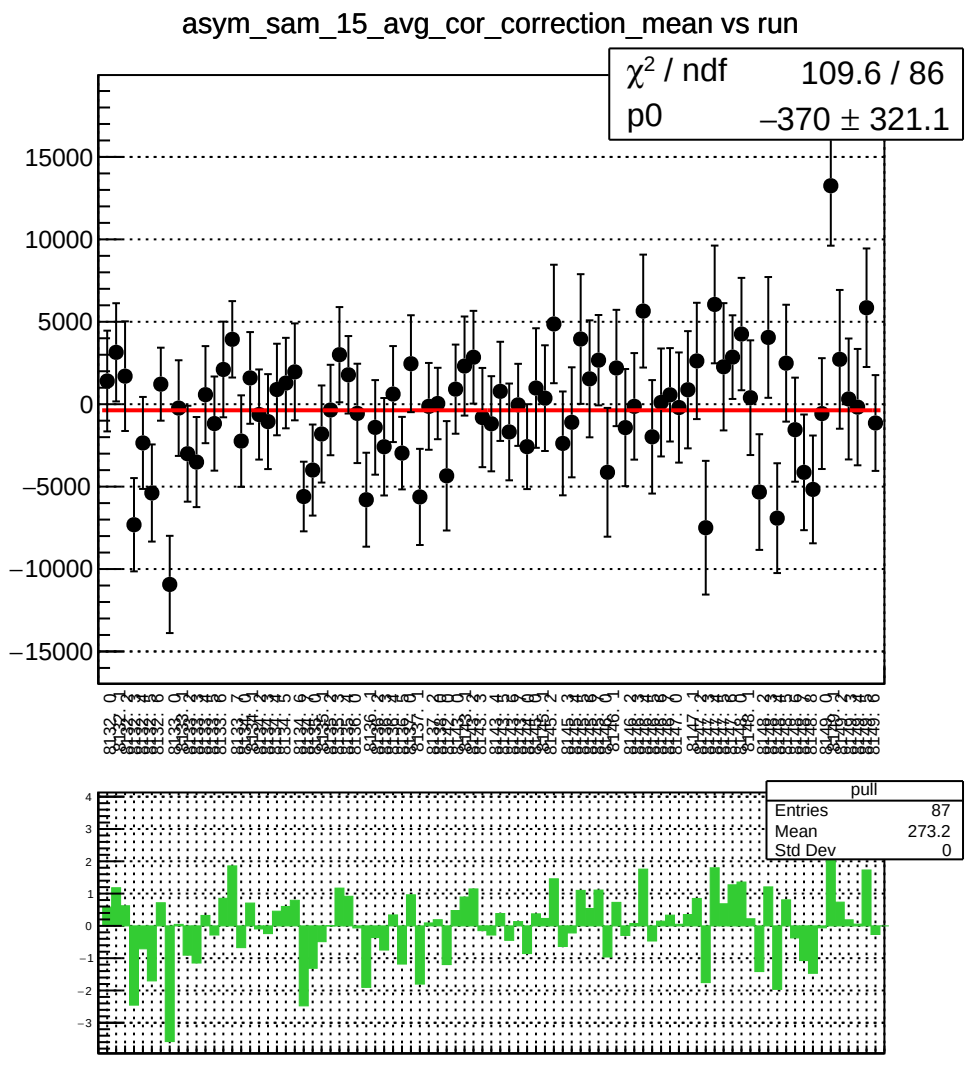

pull1D
Entries 87
Mean 0.02661
Std Dev 1.122
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

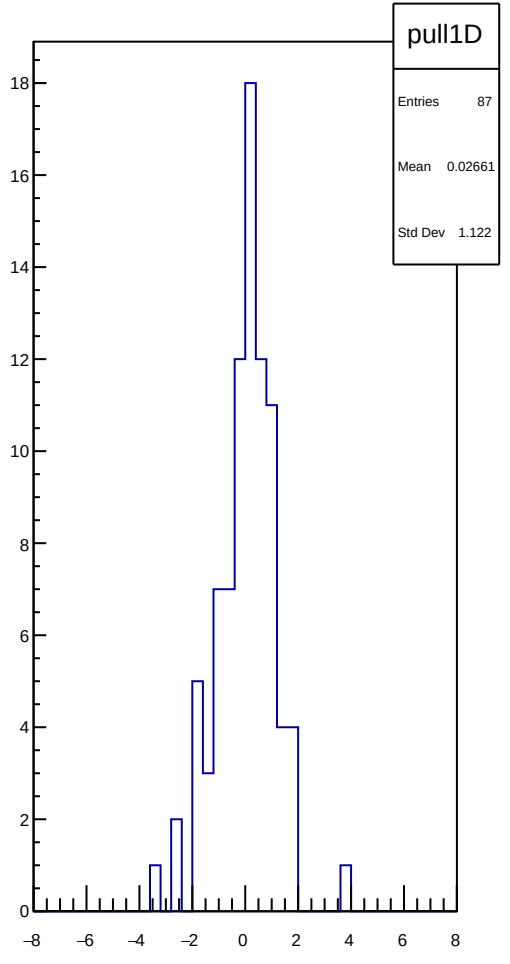

asym_sam_15_avg_reg_correction_rms vs run
χ² / ndf 2.079e+04 / 86
p0 295.8 ± 0.227
400
380
360
340
320
300
280
260
240

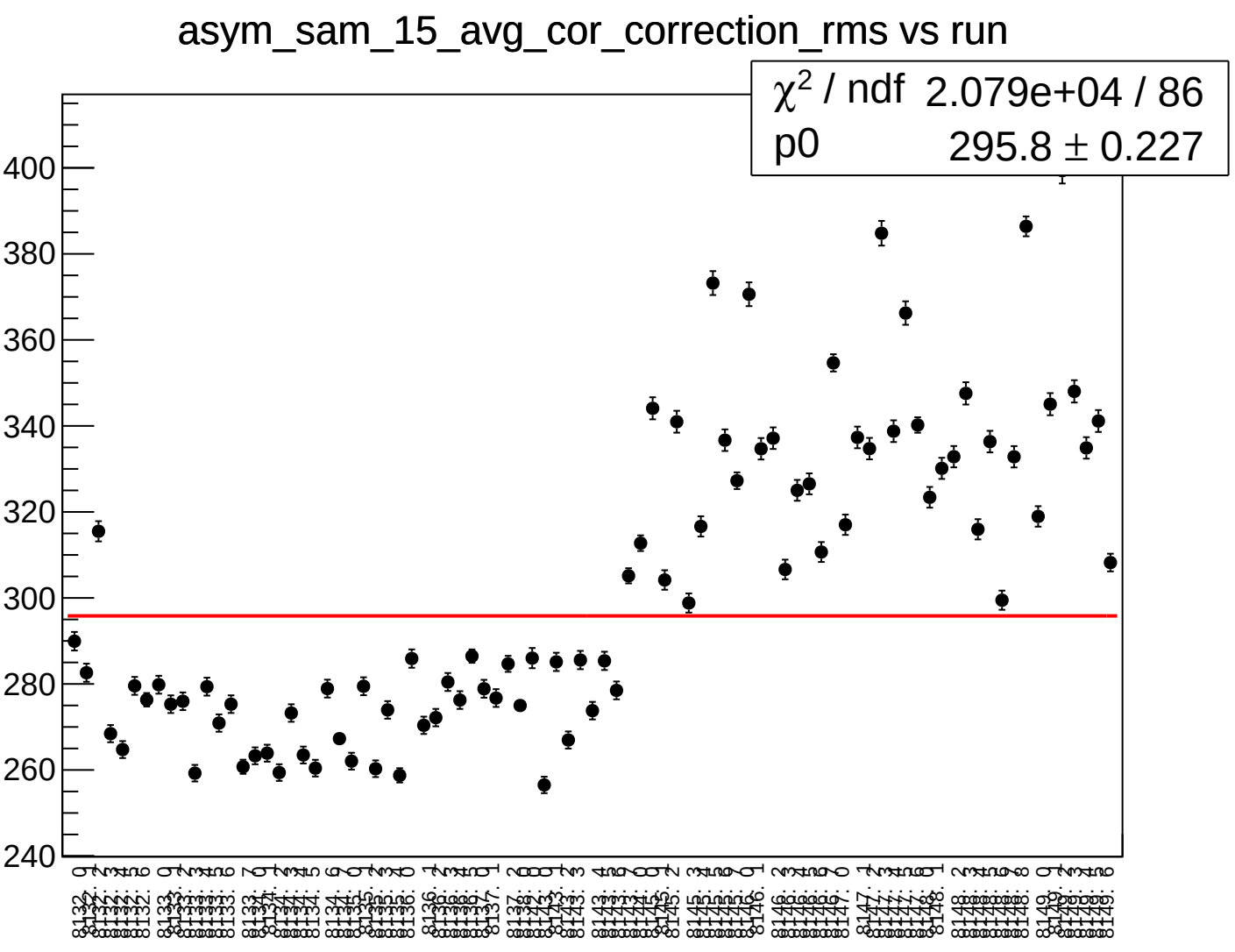

cor_asym_sam_15_avg_mean vs run
χ² / ndf 110.1 / 86
p0 −51.49 ± 62.82
2000
1000
0
−1000
−2000
pull
Entries 87
Mean 104.1
Std Dev 0
3
2
1
0
−1
−2

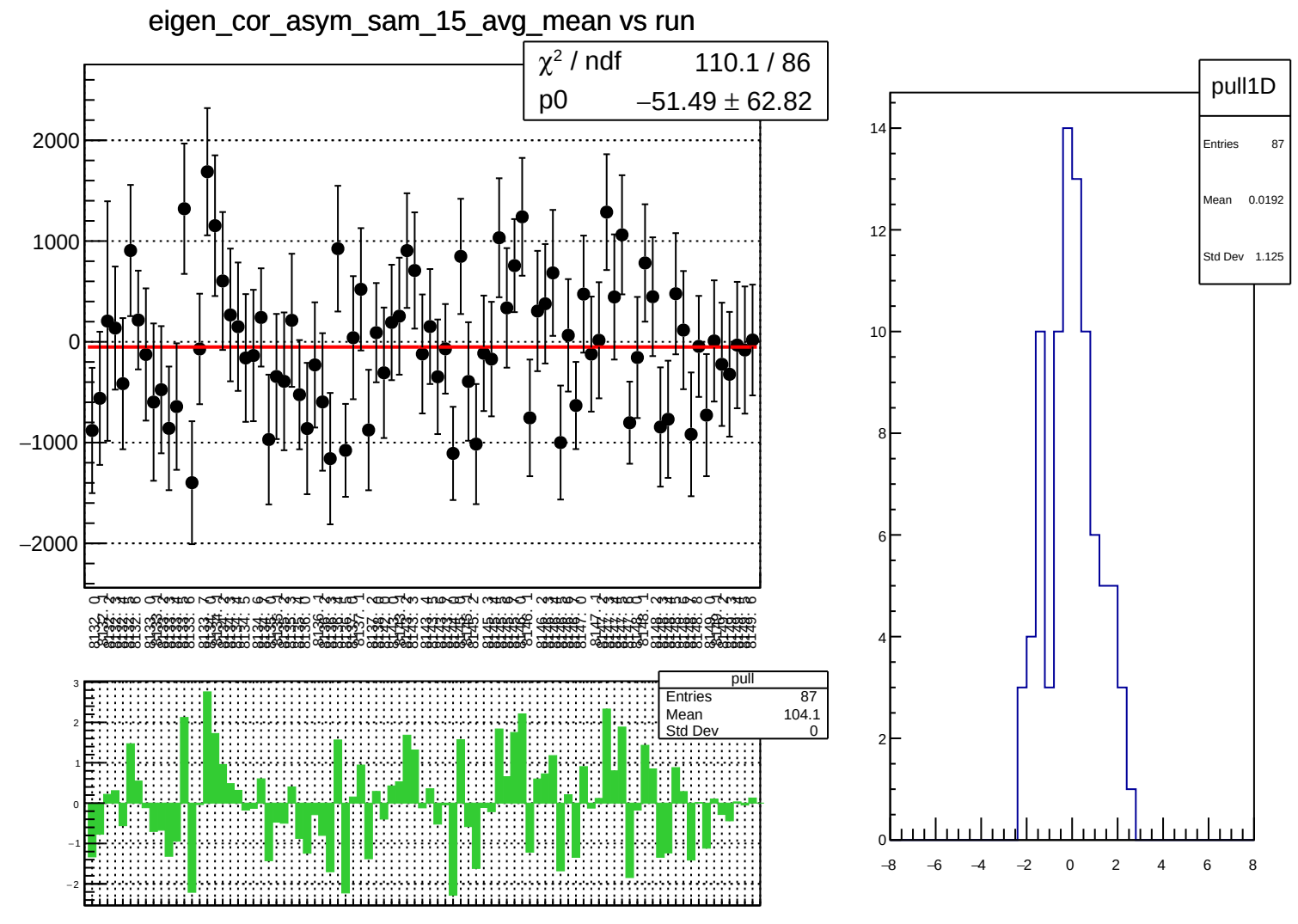

pull1D
Entries 87
Mean 0.0192
Std Dev 1.125
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

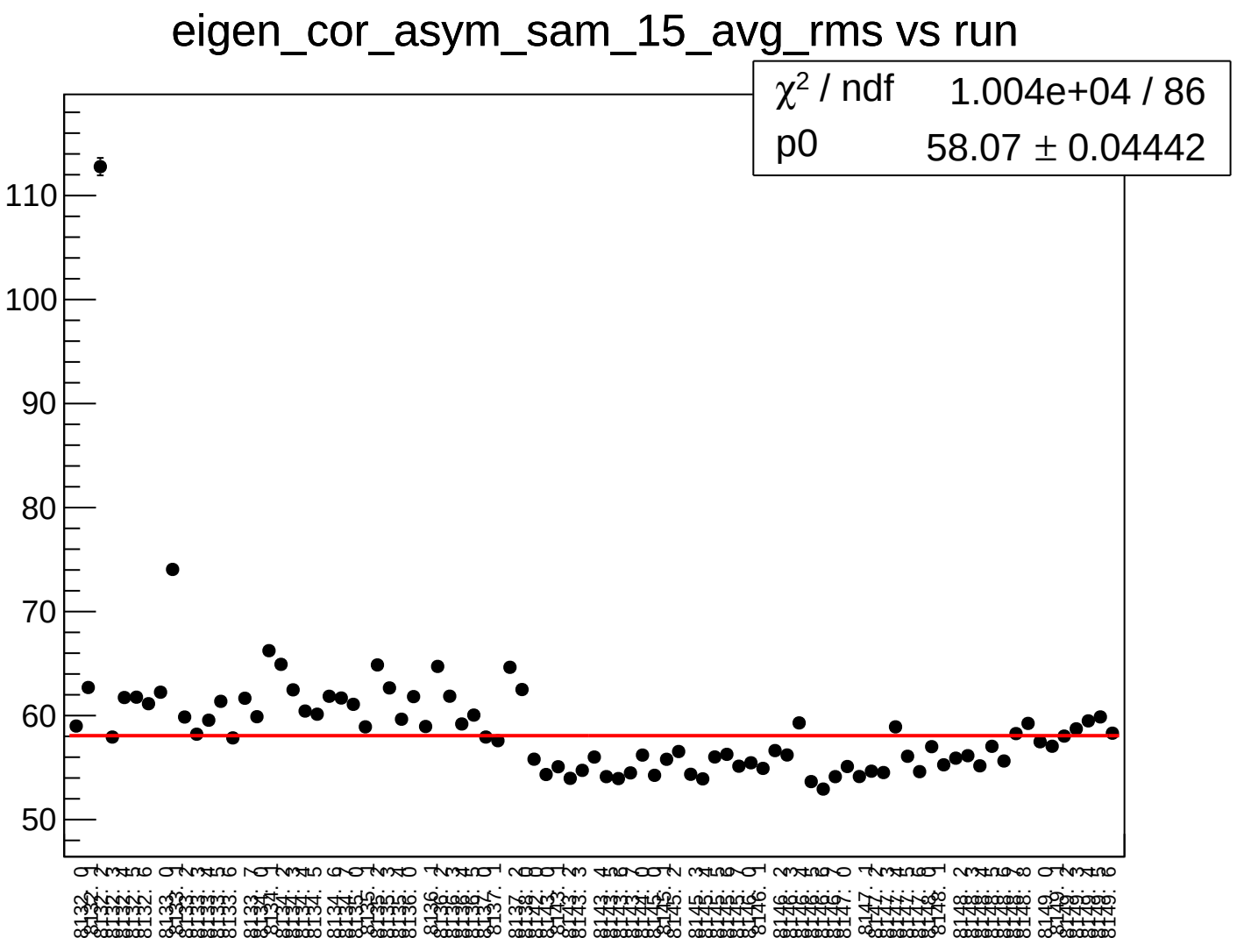

cor_asym_sam_15_avg_rms vs run
χ^2 / ndf 1.004e+04 / 86
p0 58.07 ± 0.04442
110
100
90
80
70
60
50

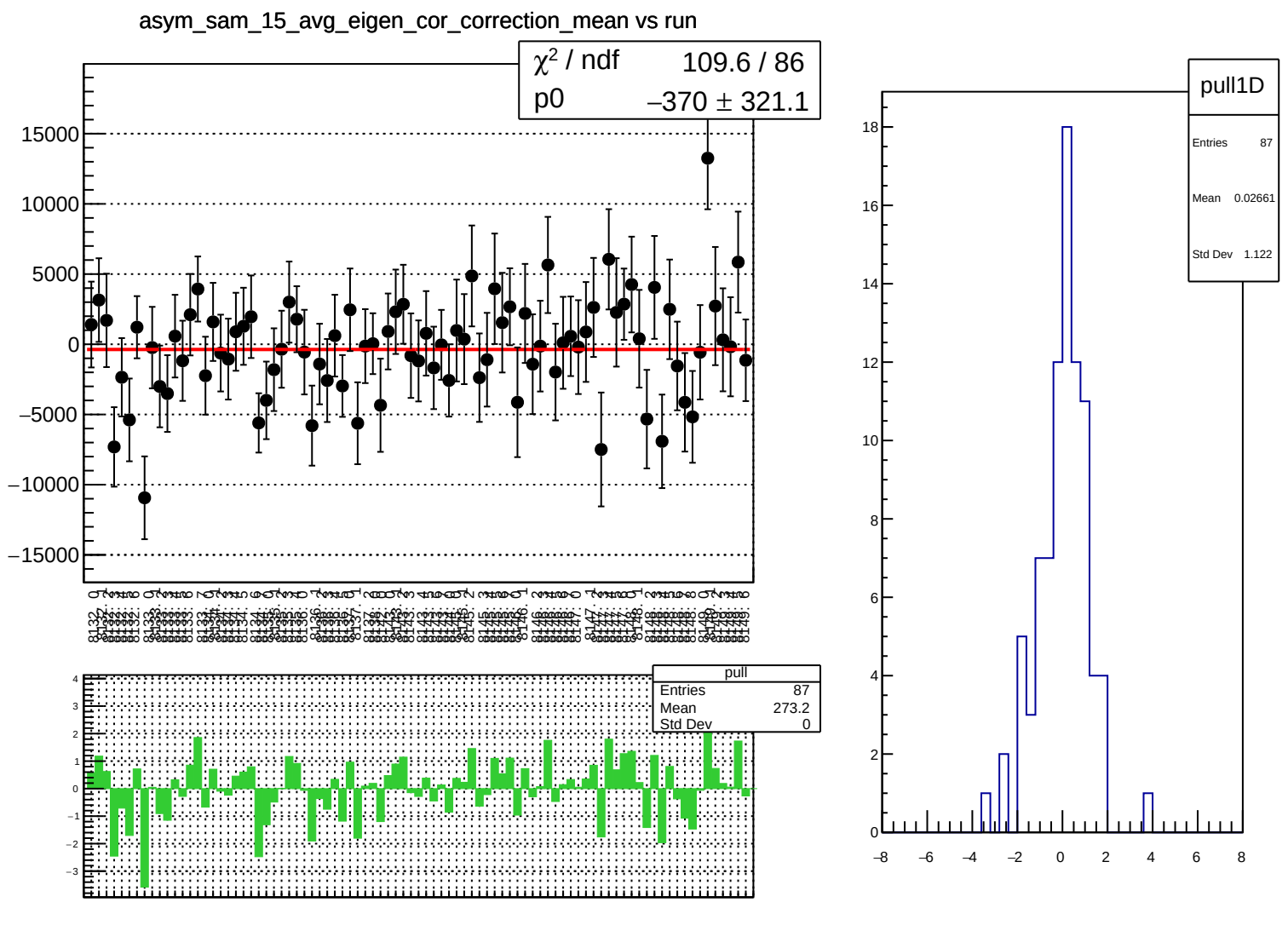

asym_sam_15_avg_cor_correction_mean vs run
χ² / ndf 109.6 / 86
p0 −370 ± 321.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean 273.2
Std Dev 0
4
3
2
1
0
−1
−2
−3

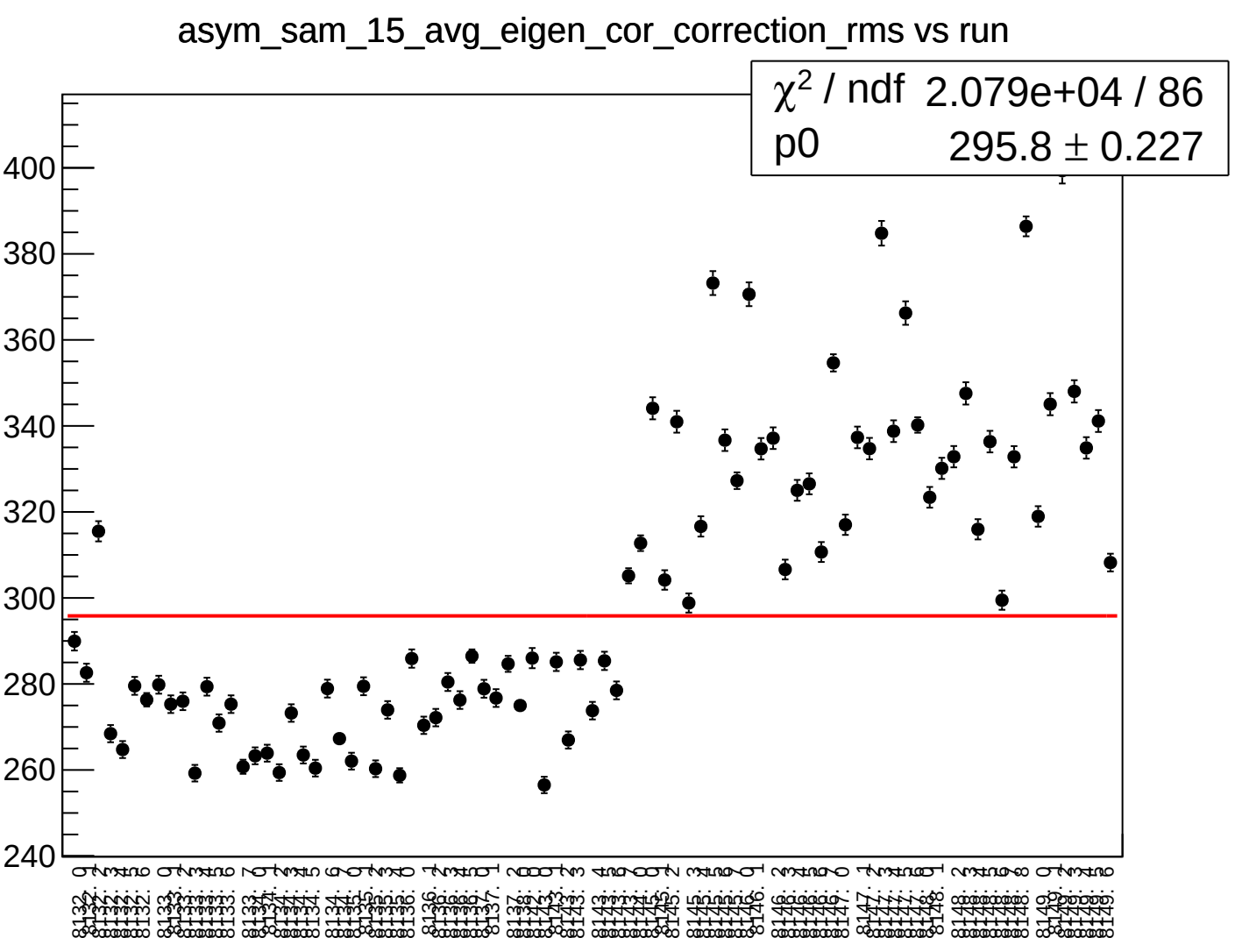

pull1D
Entries 87
Mean 0.02661
Std Dev 1.122
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

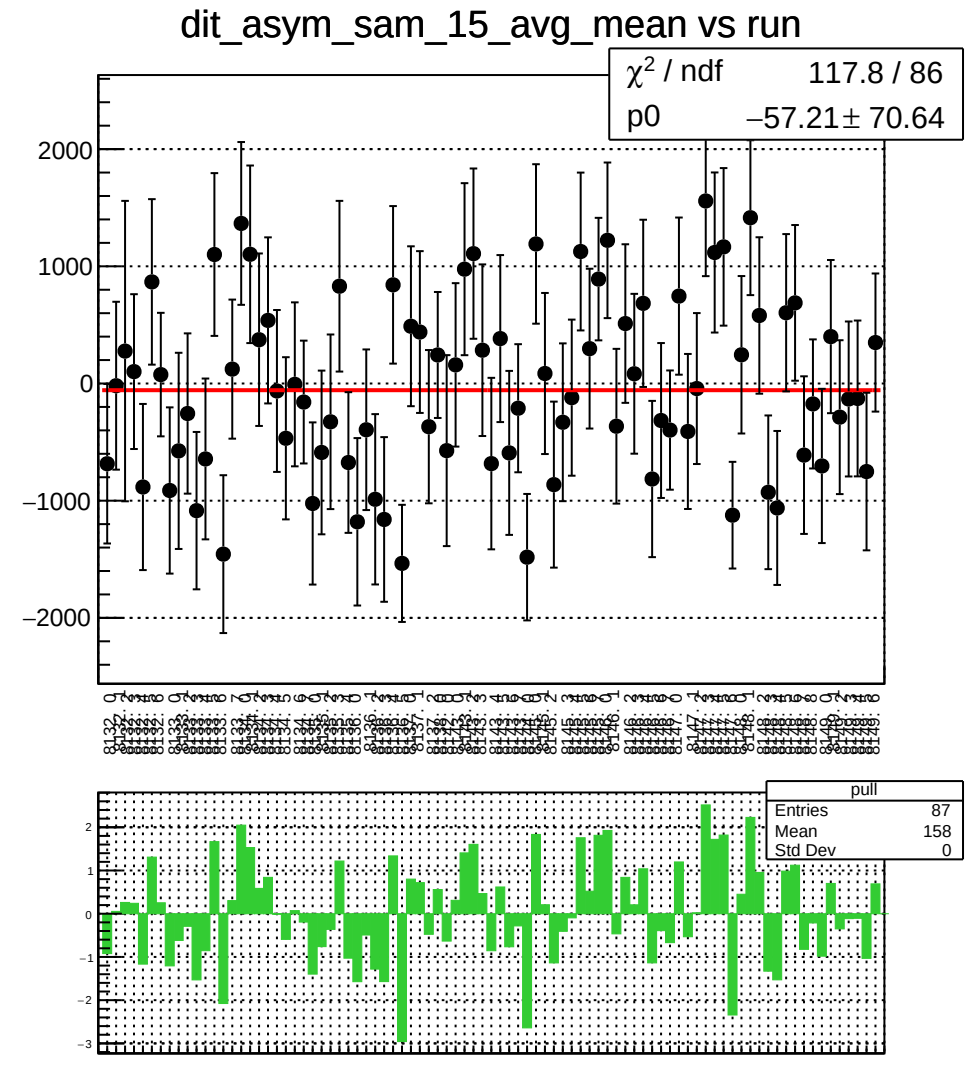

asym_sam_15_avg_cor_correction_rms vs run
χ² / ndf 2.079e+04 / 86
p0 295.8 ± 0.227
400
380
360
340
320
300
280
260
240

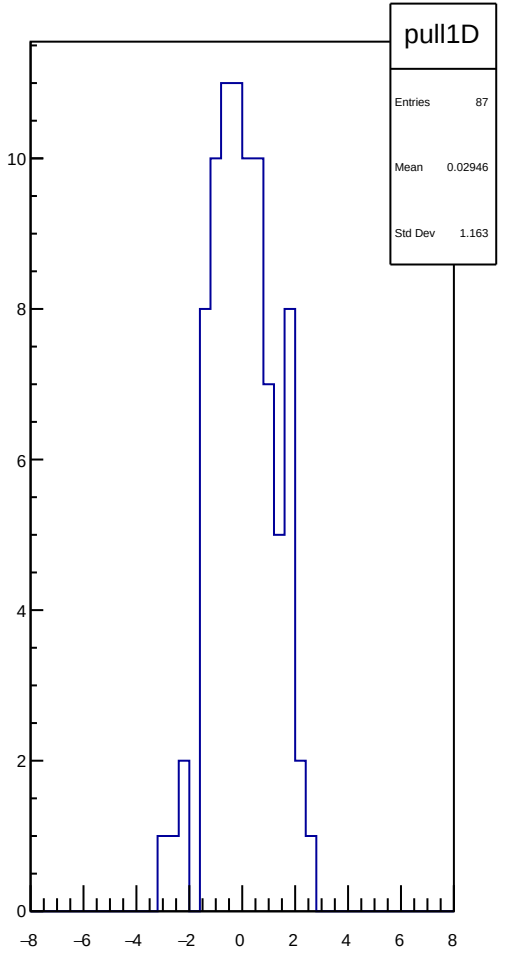

eigen_cor_asym_sam_15_avg_mean vs run
χ² / ndf 110.1 / 86
p0 −51.49 ± 62.82
2000
1000
0
−1000
−2000
pull
Entries 87
Mean 104.1
Std Dev 0
pull1D
Entries 87
Mean 0.0192
Std Dev 1.125
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

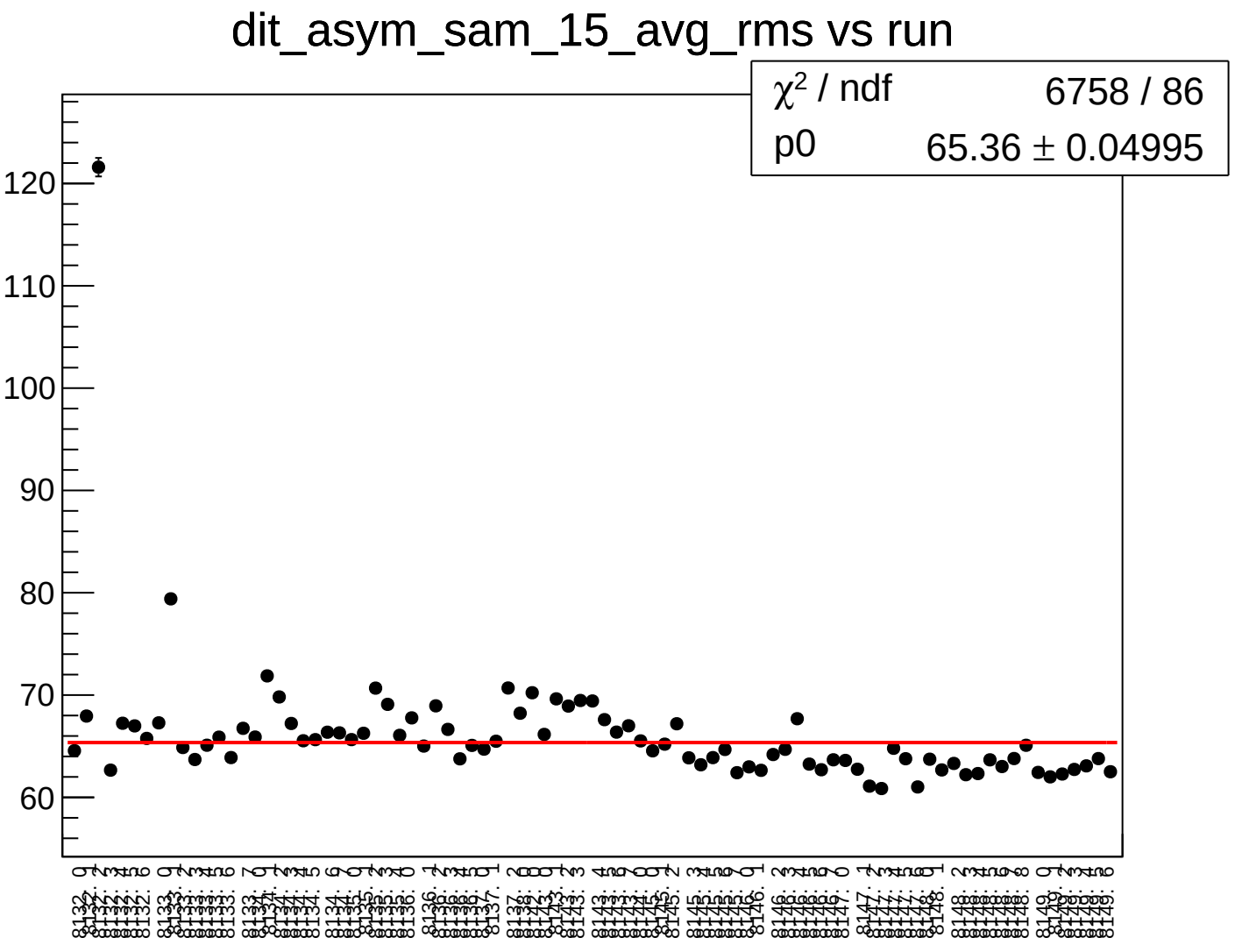

eigen_cor_asym_sam_15_avg_rms vs run
χ^2 / ndf 1.004e+04 / 86
p0 58.07 ± 0.04442
110
100
90
80
70
60
50

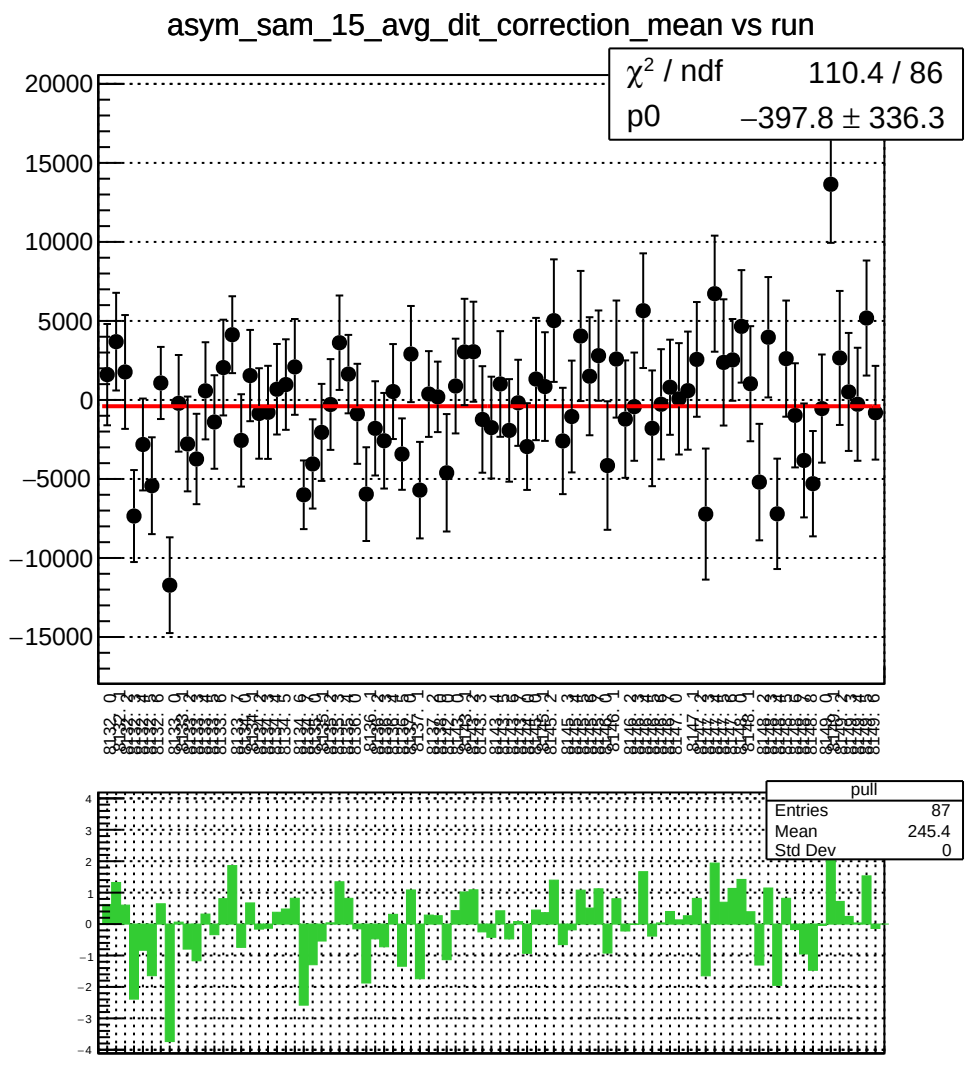

asym_sam_15_avg_eigen_cor_correction_mean vs run
χ² / ndf 109.6 / 86
p0 −370 ± 321.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean 273.2
Std Dev 0
pull1D
Entries 87
Mean 0.02661
Std Dev 1.122
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

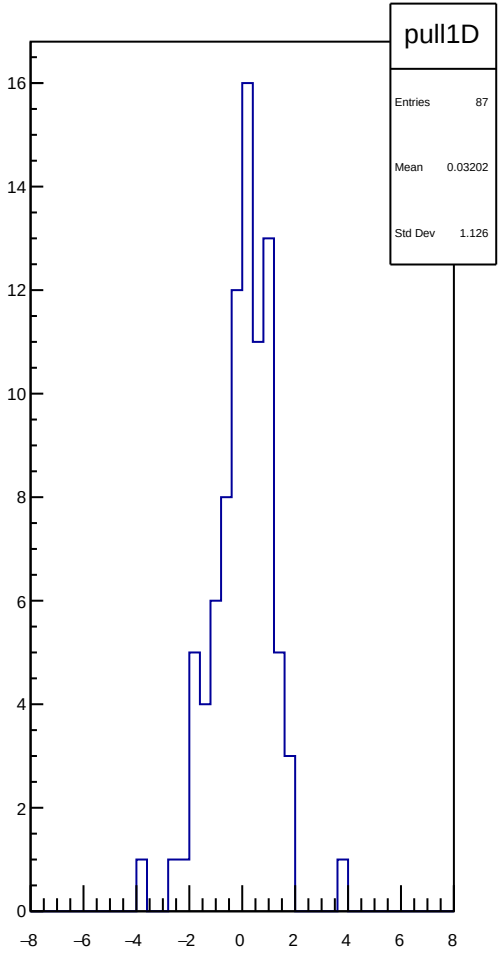

asym_sam_15_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.079e+04 / 86
p0 295.8 ± 0.227
400
380
360
340
320
300
280
260
240

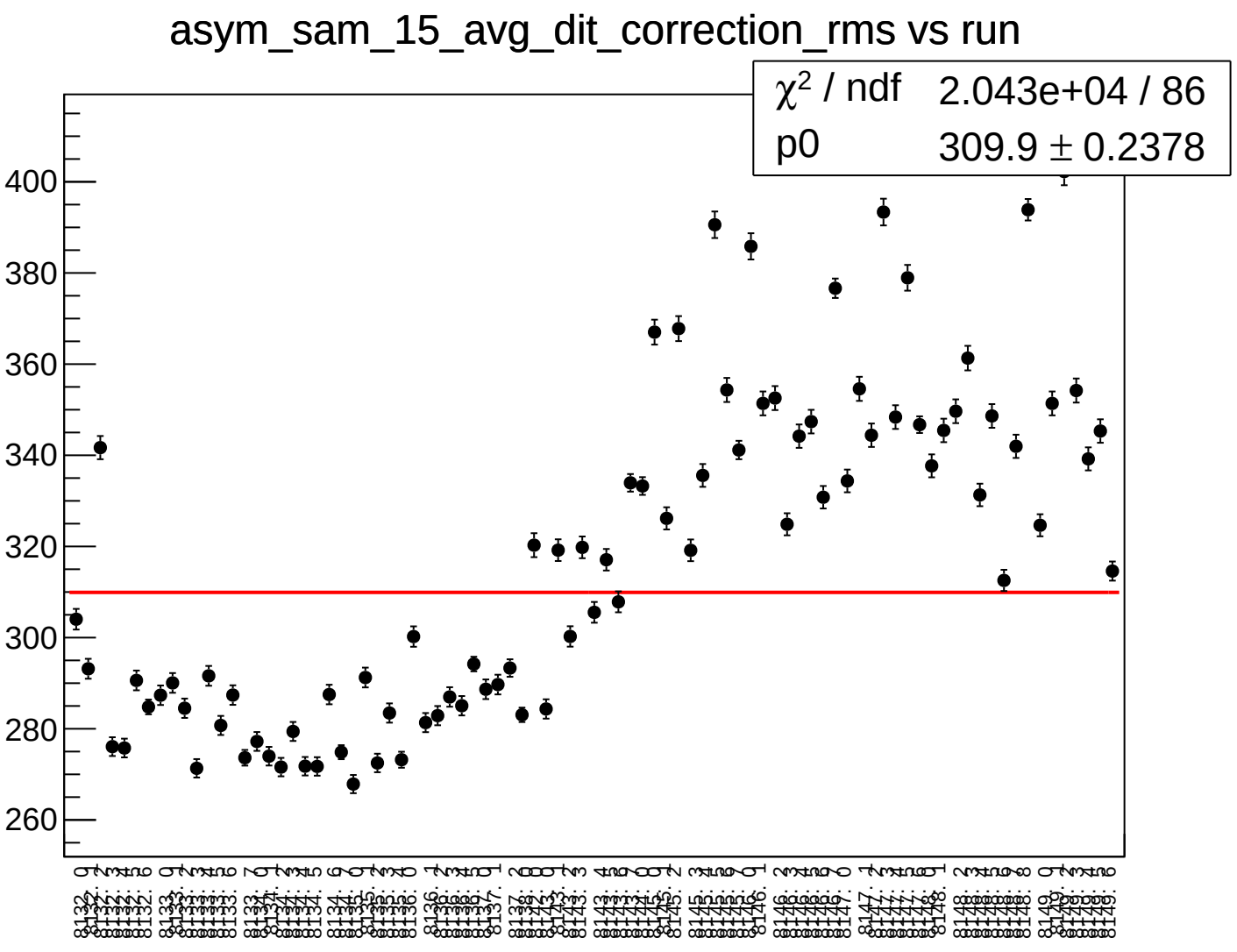

dit_asym_sam_15_avg_mean vs run
χ² / ndf 117.8 / 86
p0 −57.21± 70.64
2000
1000
0
−1000
−2000
pull
Entries 87
Mean 158
Std Dev 0
2
1
0
−1
−2
−3

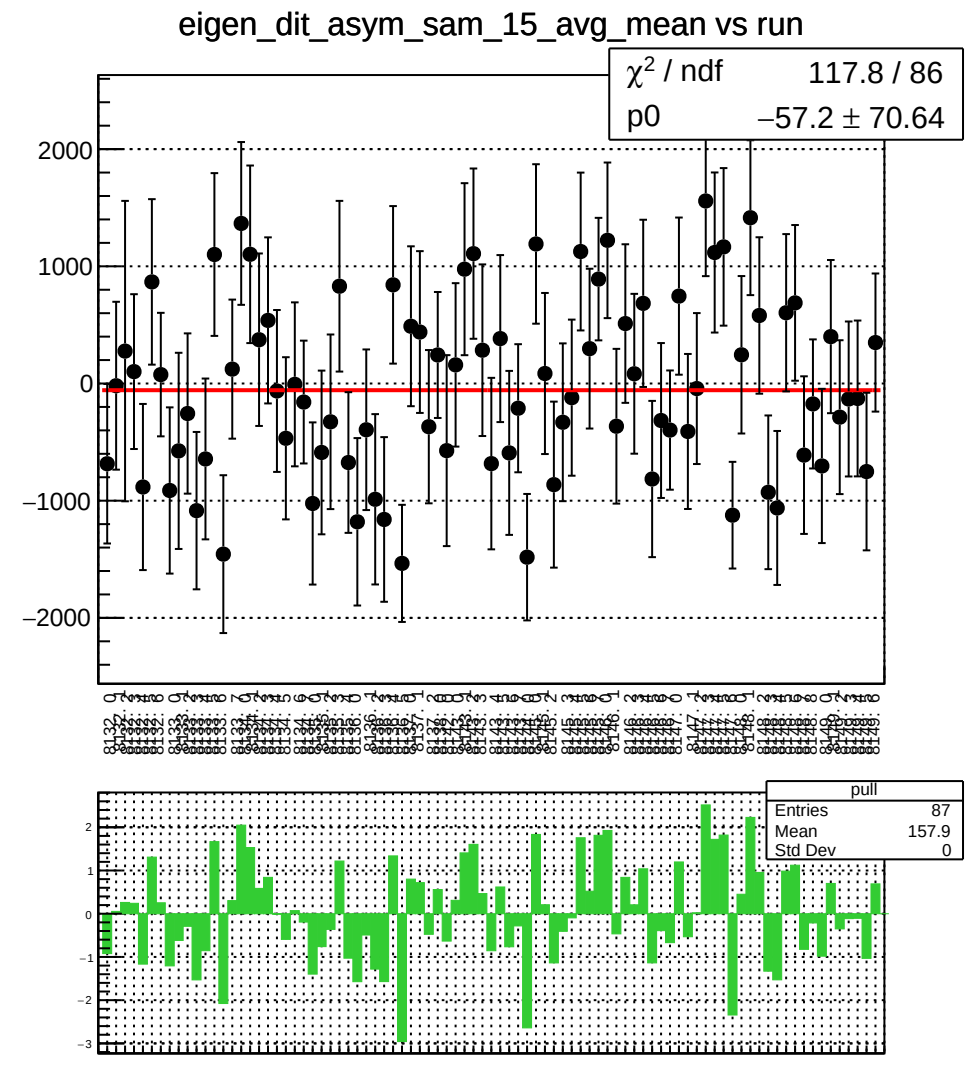

pull1D
Entries 87
Mean 0.02946
Std Dev 1.163
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

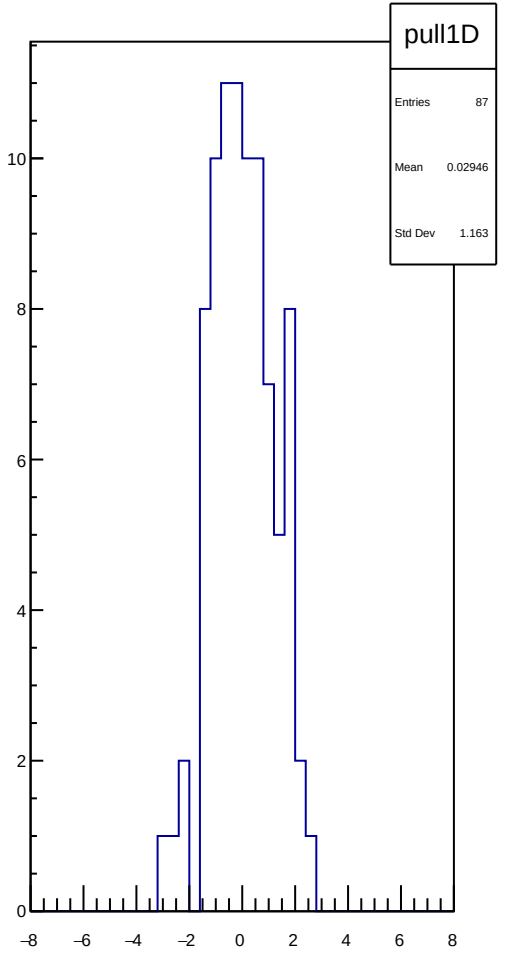

dit_asym_sam_15_avg_rms vs run
χ^2 / ndf 6758 / 86
p0 65.36 ± 0.04995
120
110
100
90
80
70
60

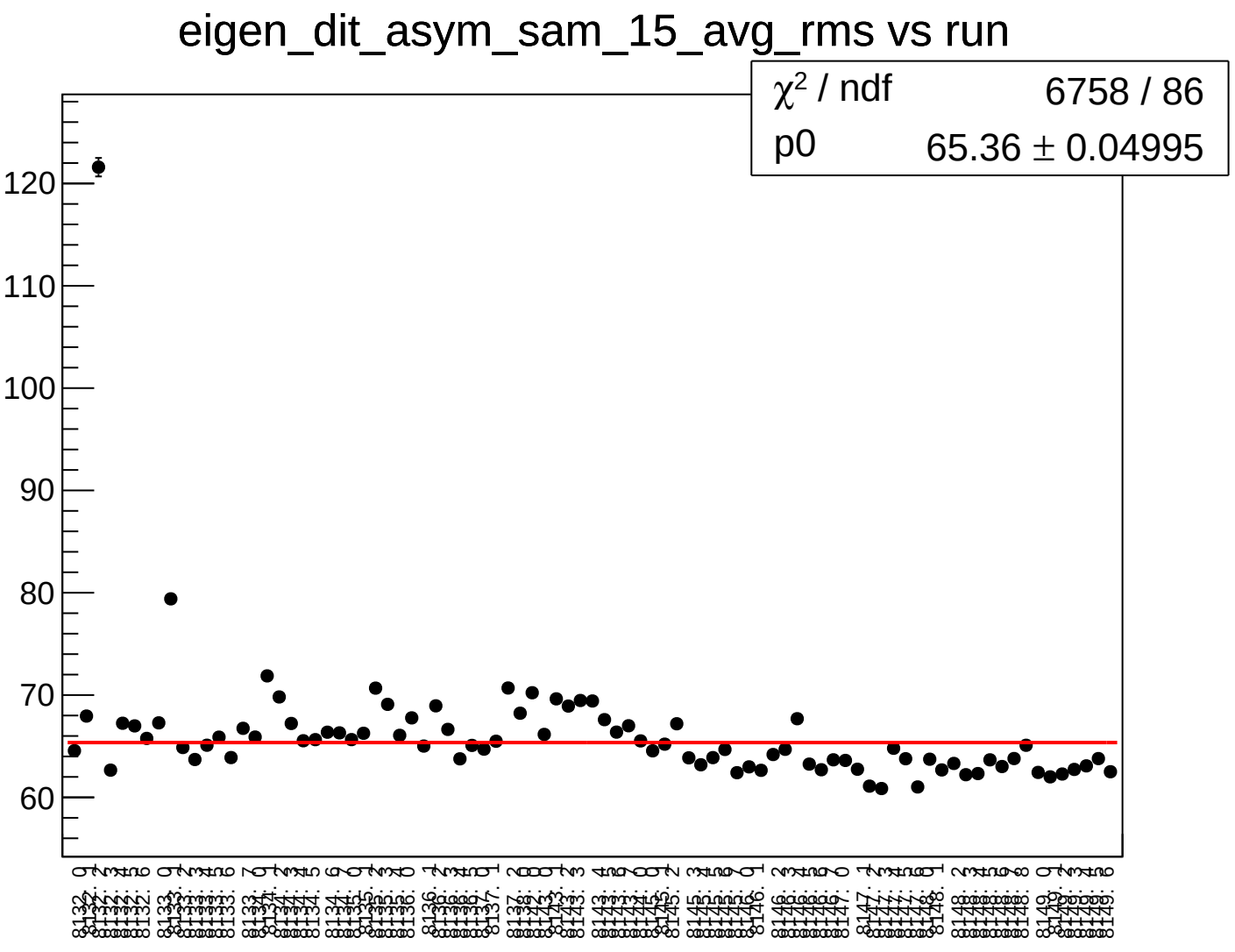

asym_sam_15_avg_dit_correction_mean vs run
χ² / ndf 110.4 / 86
p0 −397.8 ± 336.3
pull
Entries 87
Mean 245.4
Std Dev 0

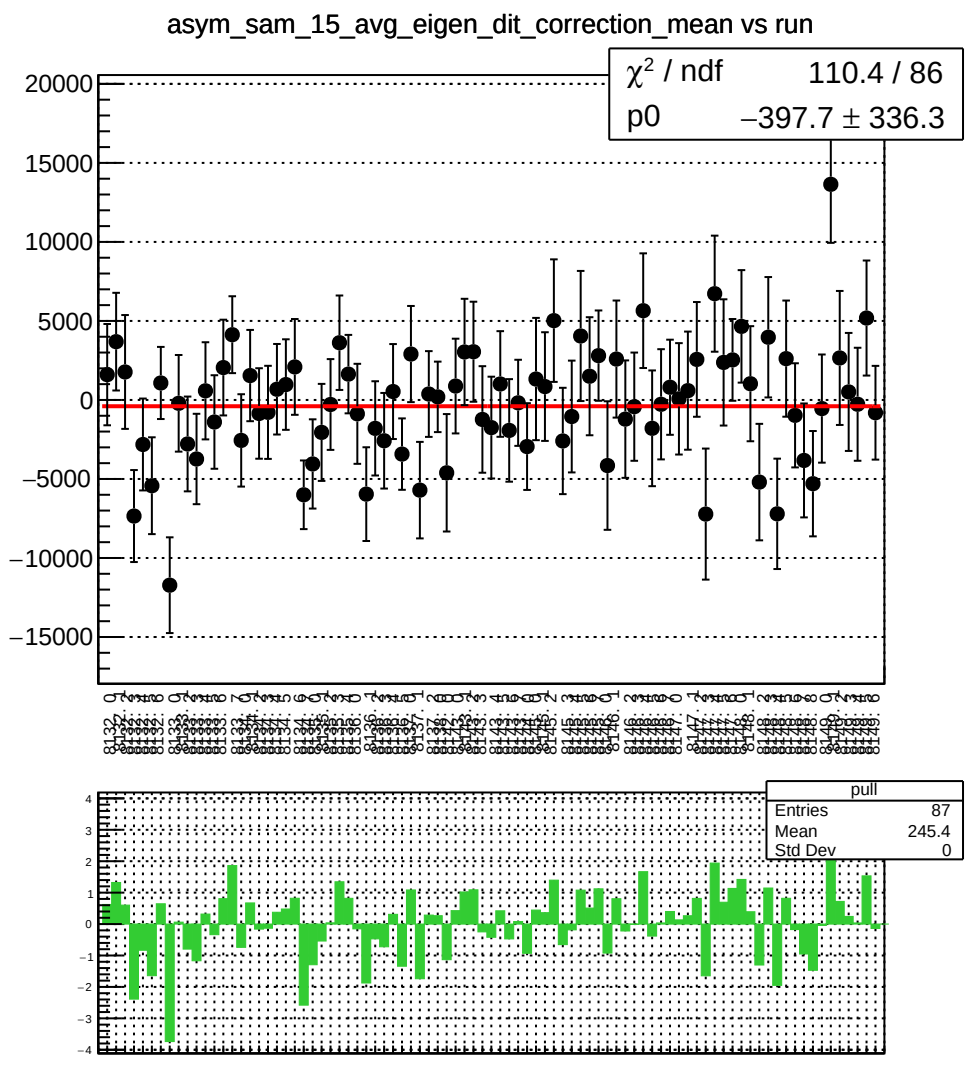

pull1D
Entries 87
Mean 0.03202
Std Dev 1.126

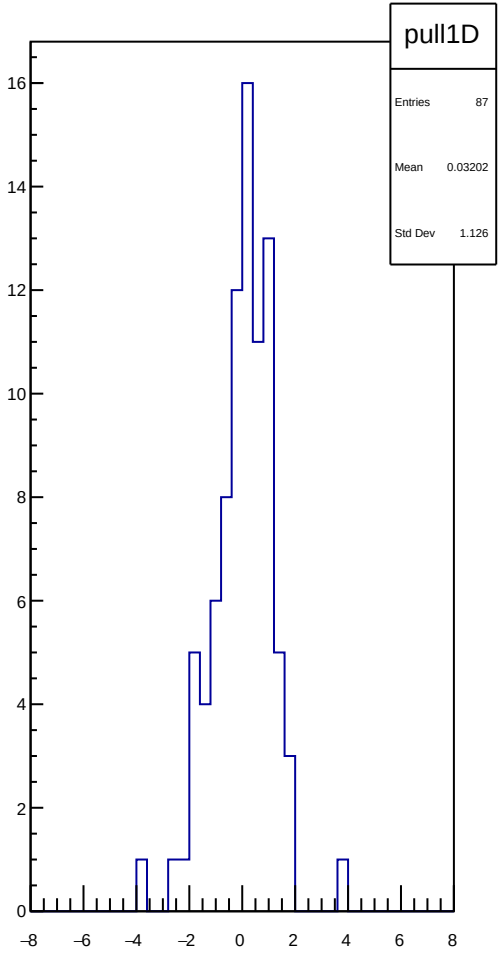

asym_sam_15_avg_dit_correction_rms vs run
χ² / ndf 2.043e+04 / 86
p0 309.9 ± 0.2378
400
380
360
340
320
300
280
260

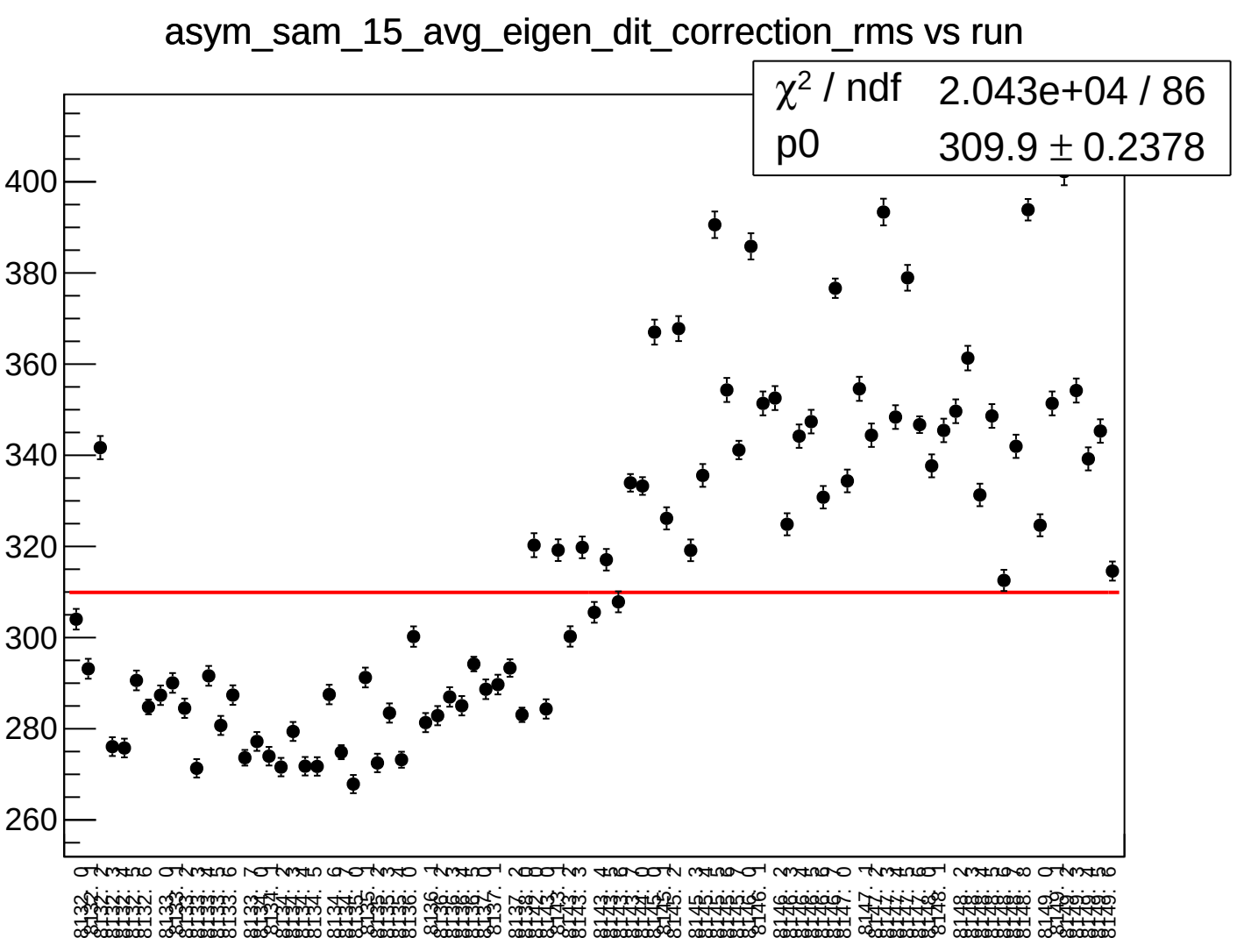

eigen_dit_asym_sam_15_avg_mean vs run
χ² / ndf 117.8 / 86
p0 −57.2 ± 70.64
2000
1000
0
−1000
−2000
pull
Entries 87
Mean 157.9
Std Dev 0
2
1
0
−1
−2
−3

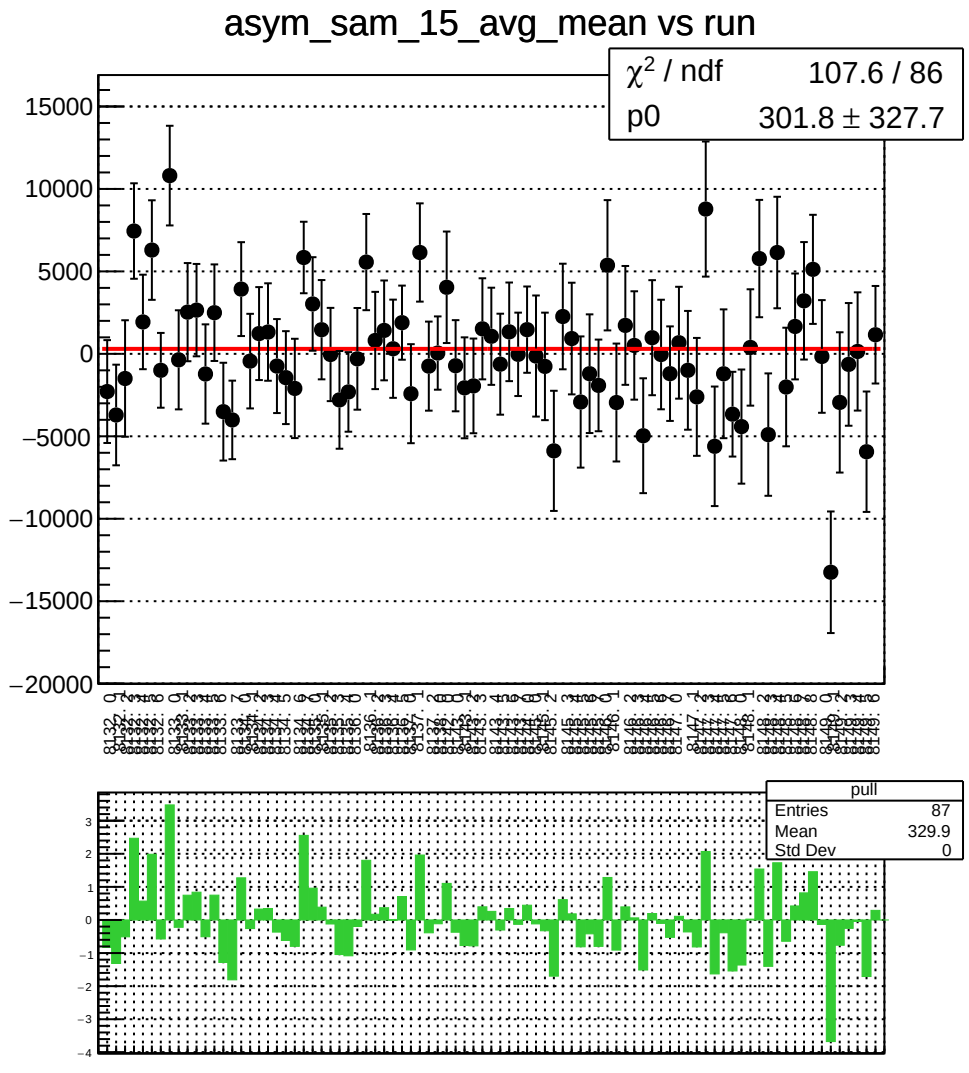

pull1D
Entries 87
Mean 0.02946
Std Dev 1.163
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

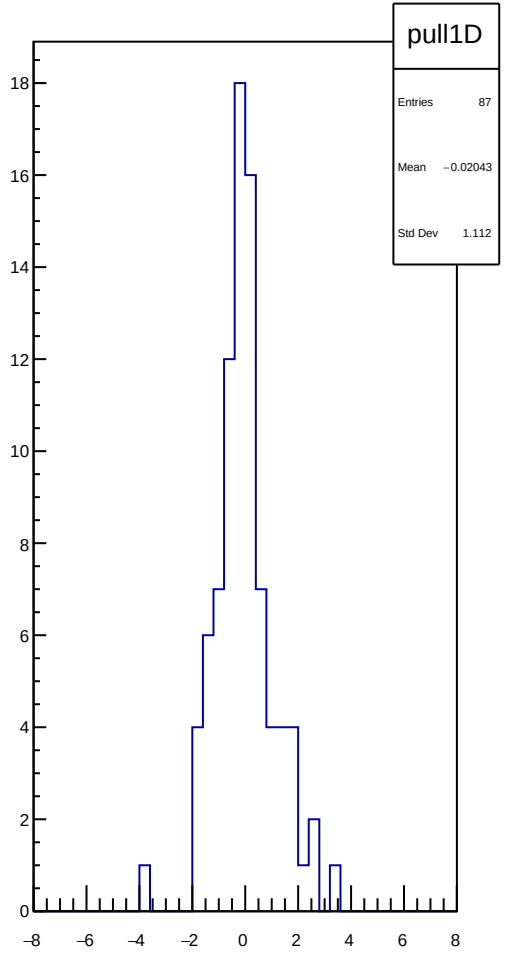

eigen_dit_asym_sam_15_avg_rms vs run
χ² / ndf 6758 / 86
p0 65.36 ± 0.04995
120
110
100
90
80
70
60

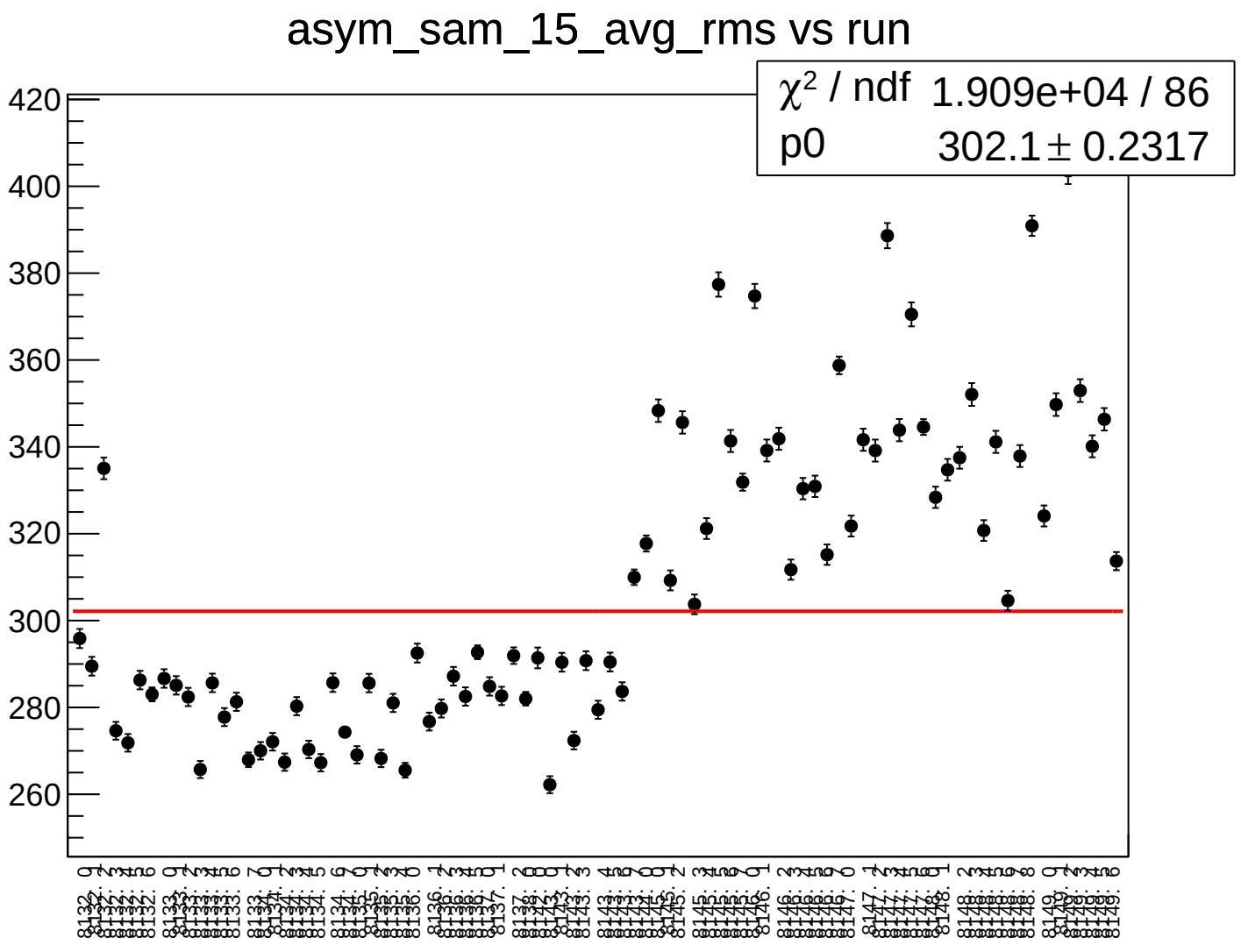

asym_sam_15_avg_eigen_dit_correction_mean vs run
χ² / ndf 110.4 / 86
p0 −397.7 ± 336.3
pull
Entries 87
Mean 245.4
Std Dev 0

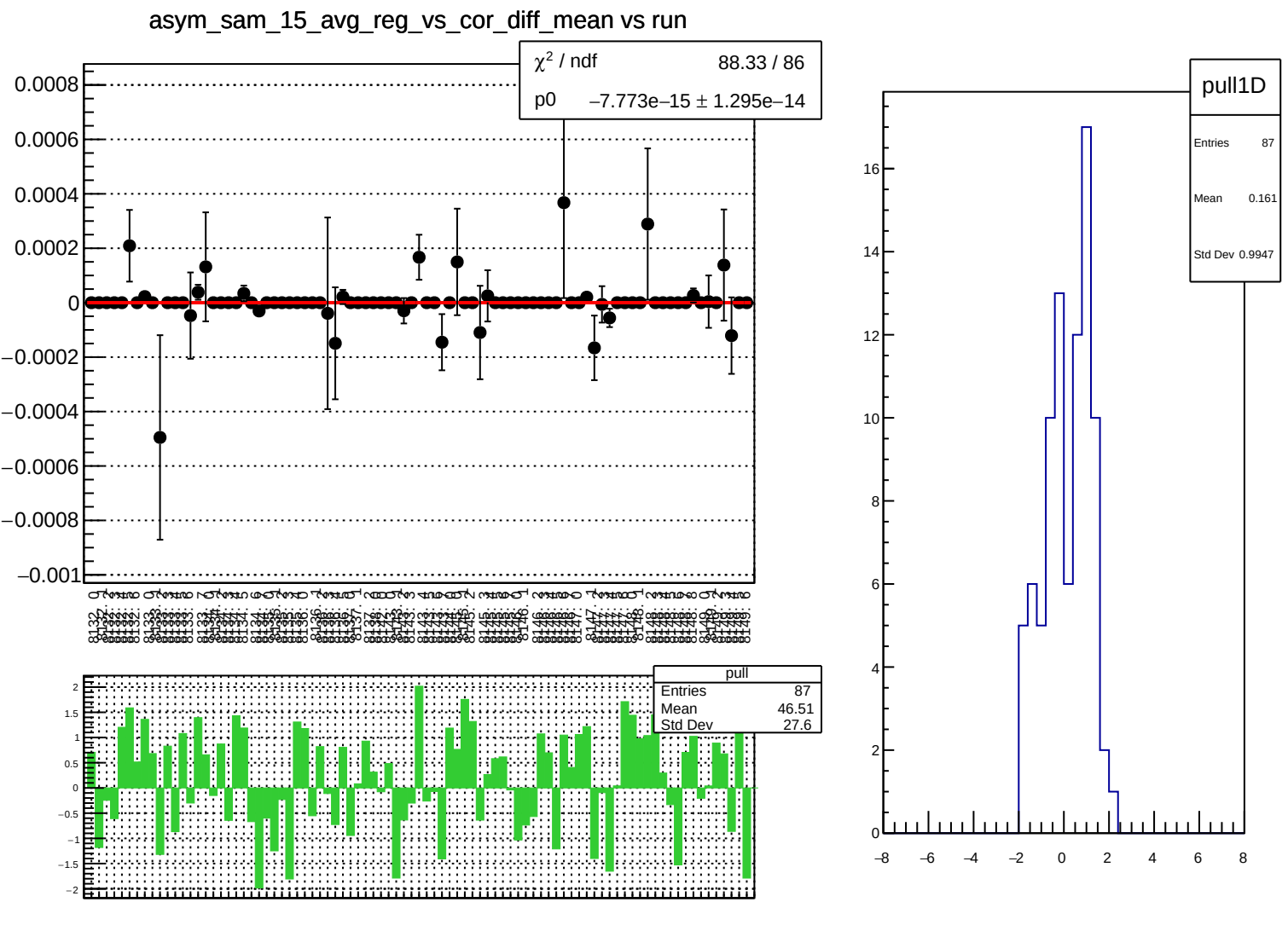

pull1D
Entries 87
Mean 0.03202
Std Dev 1.126

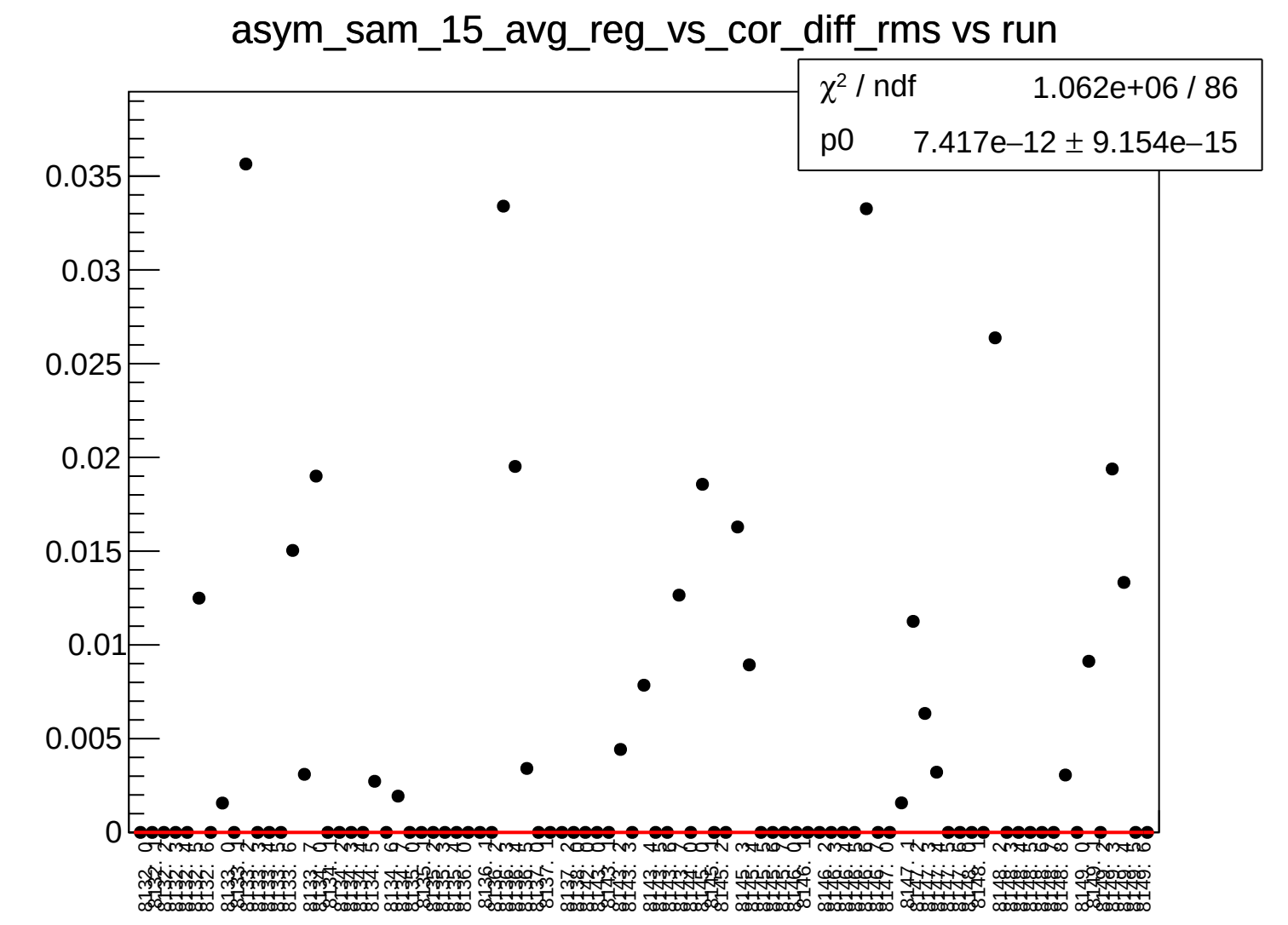

asym_sam_15_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.043e+04 / 86
p0 309.9 ± 0.2378
400
380
360
340
320
300
280
260

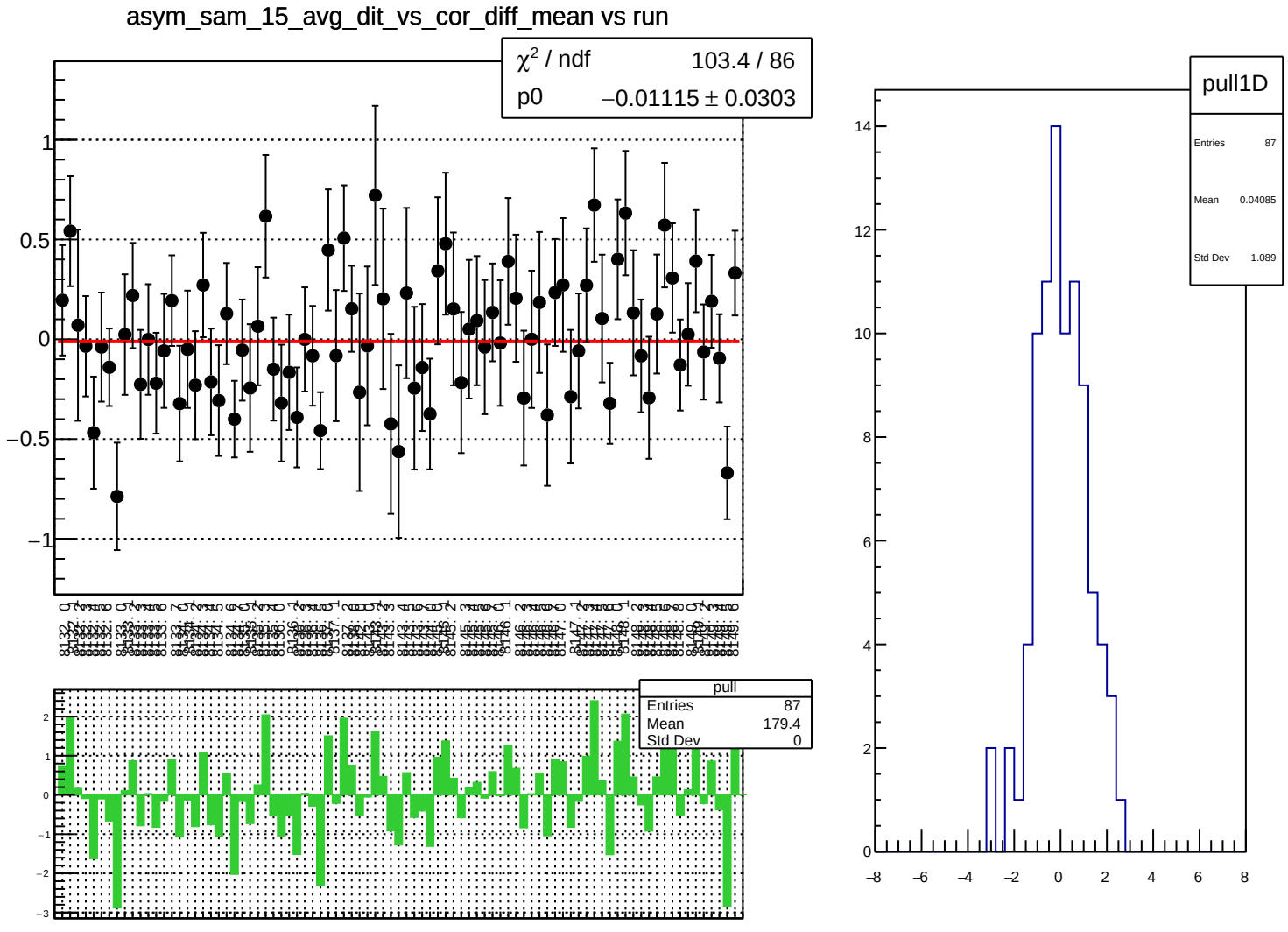

asym_sam_15_avg_mean vs run
χ² / ndf 107.6 / 86
p0 301.8 ± 327.7
pull
Entries 87
Mean 329.9
Std Dev 0

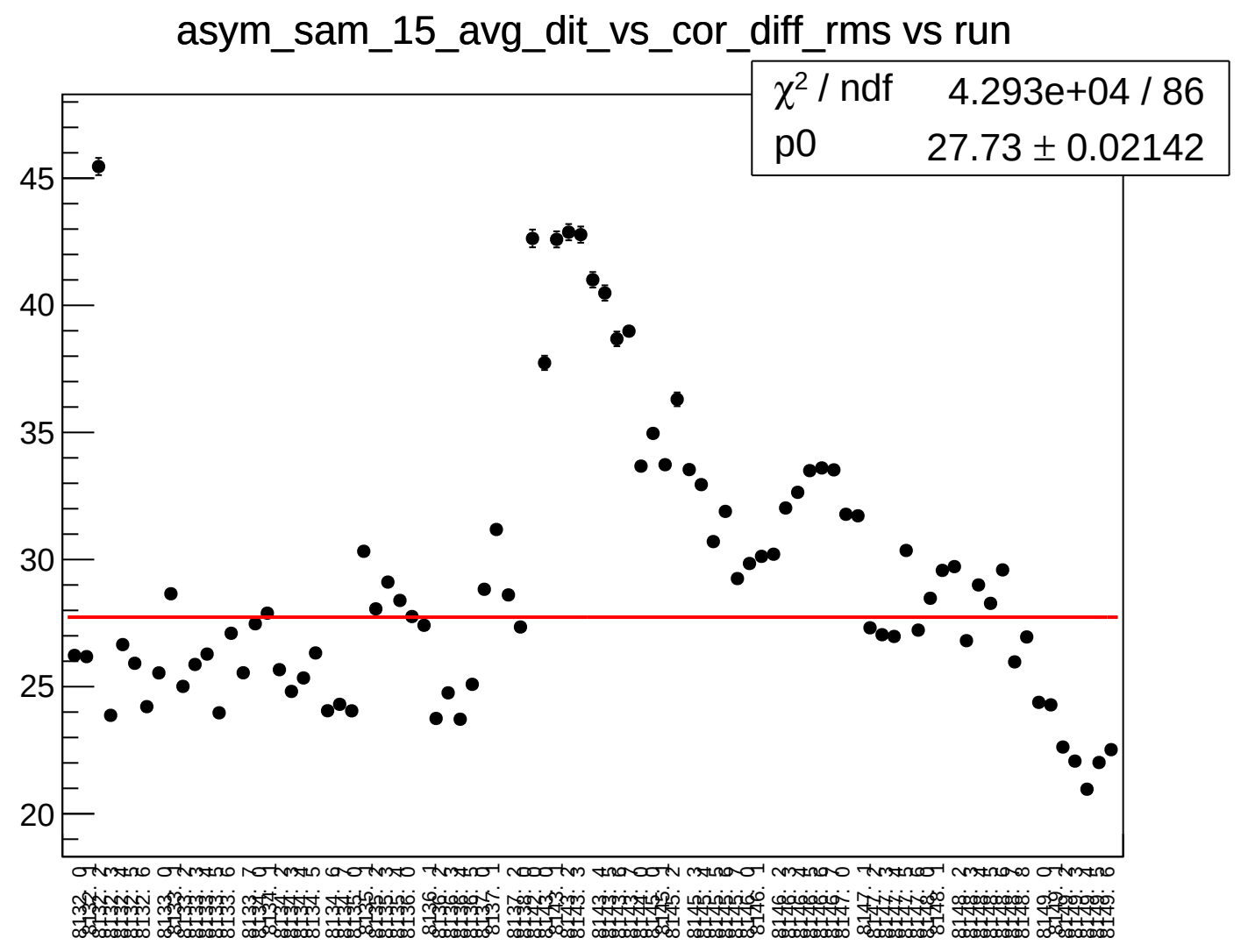

pull1D
Entries 87
Mean −0.02043
Std Dev 1.112

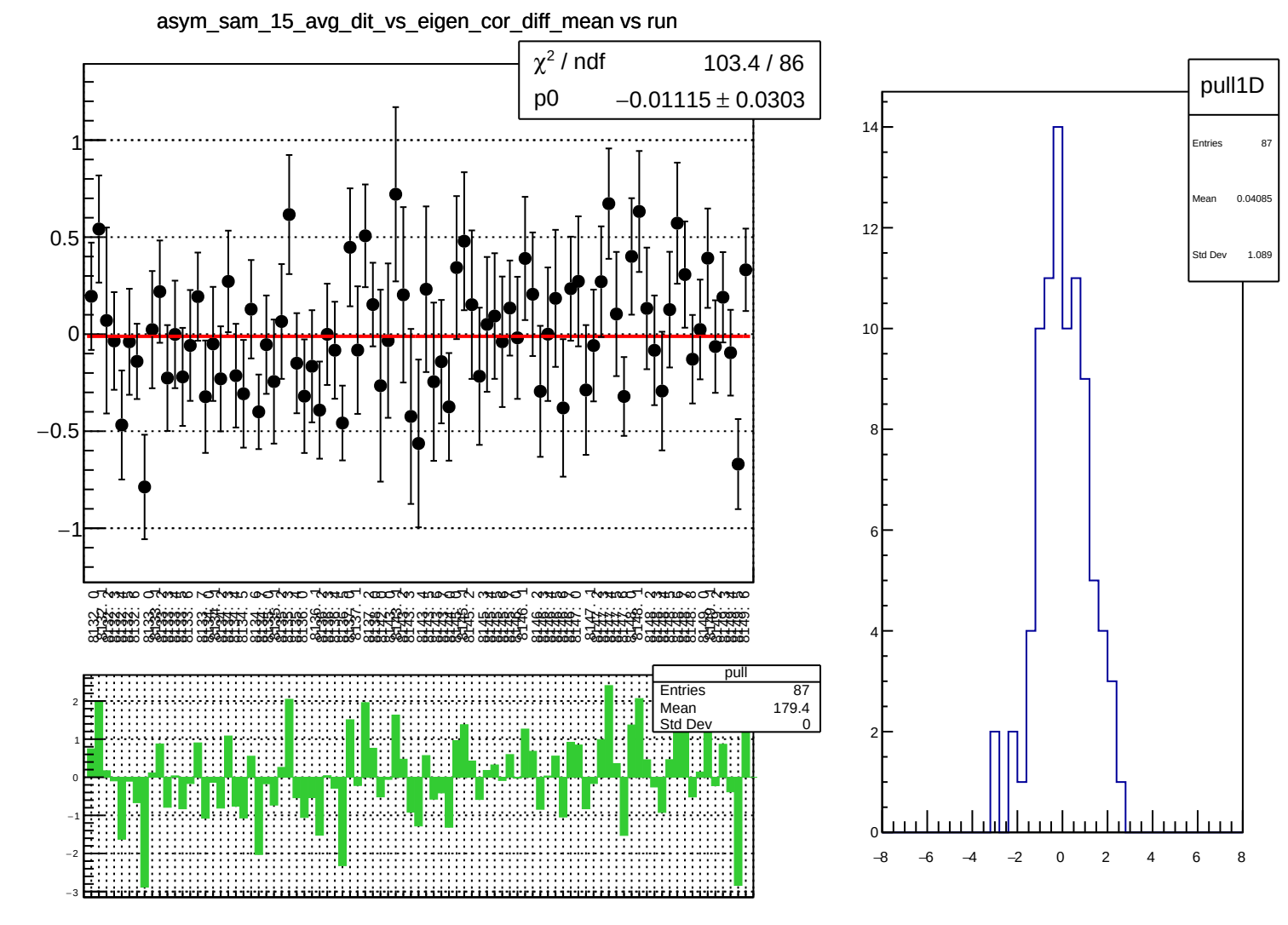

asym_sam_15_avg_rms vs run
χ² / ndf 1.909e+04 / 86
p0 302.1 ± 0.2317
420
400
380
360
340
320
300
280
260

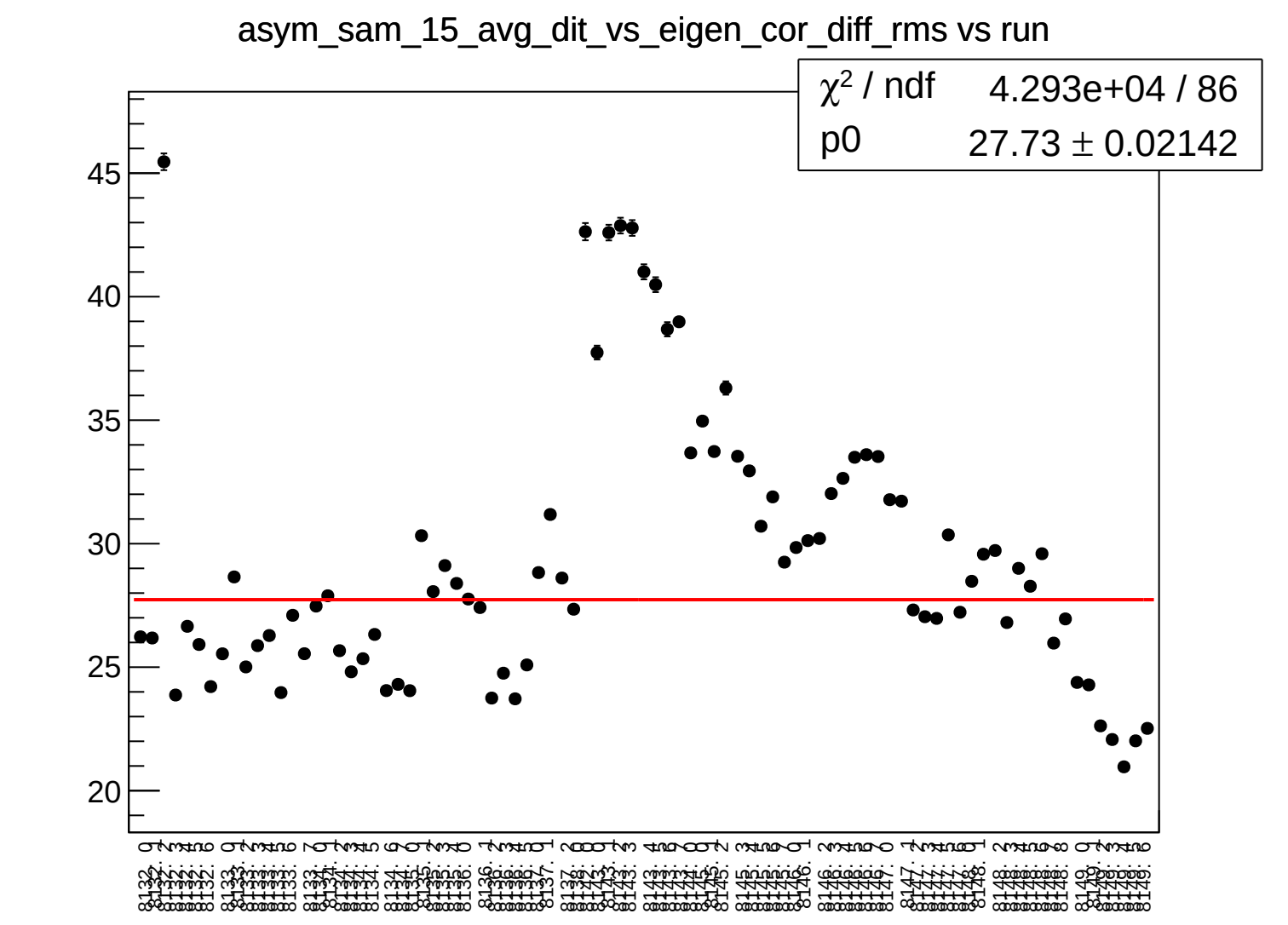

asym_sam_15_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 88.33 / 86
p0 −7.773e−15 ± 1.295e−14
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 87
Mean 46.51
Std Dev 27.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 87
Mean 0.161
Std Dev 0.9947
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

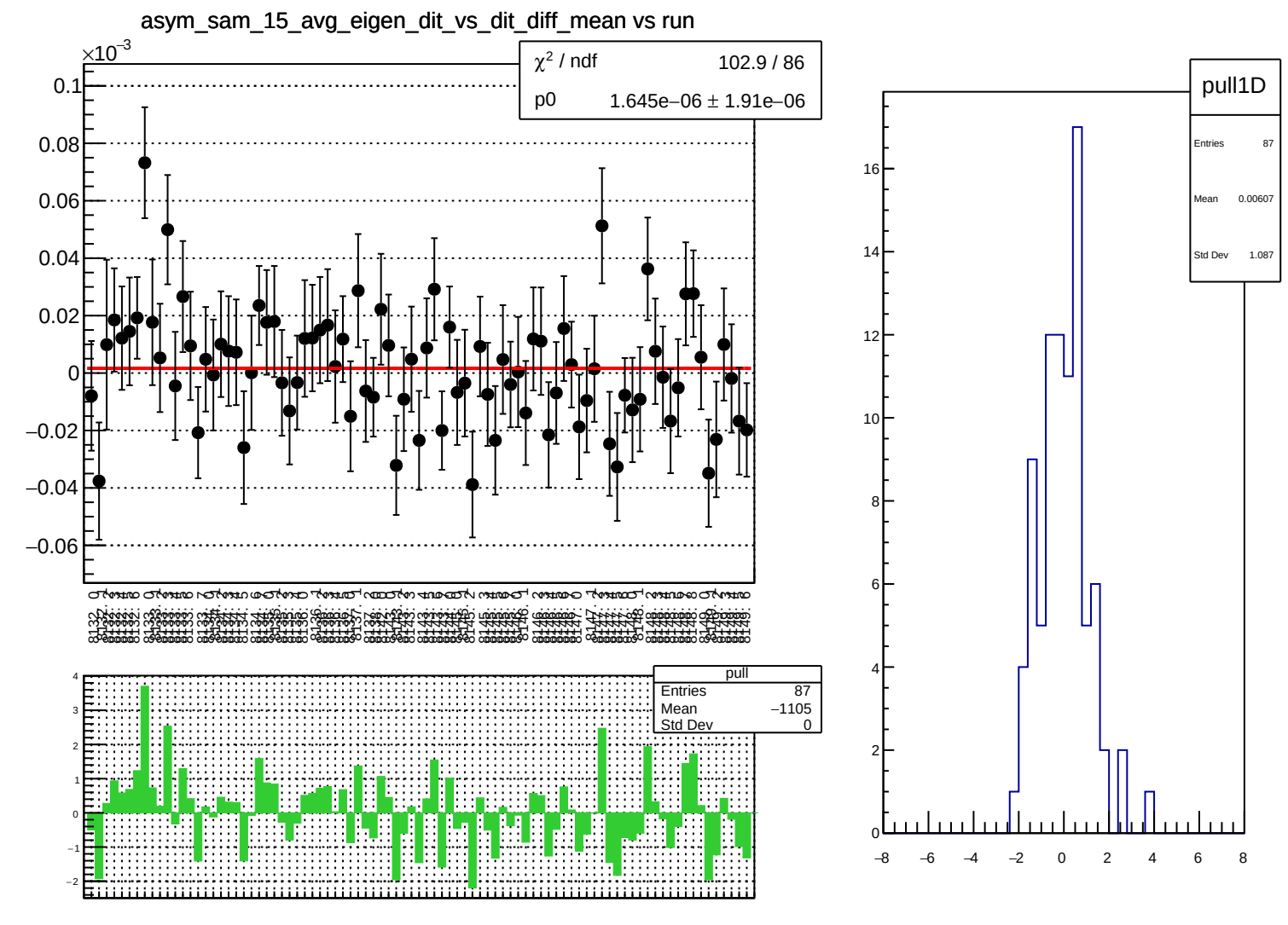

asym_sam_15_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.062e+06 / 86
p0 7.417e−12 ± 9.154e−15
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

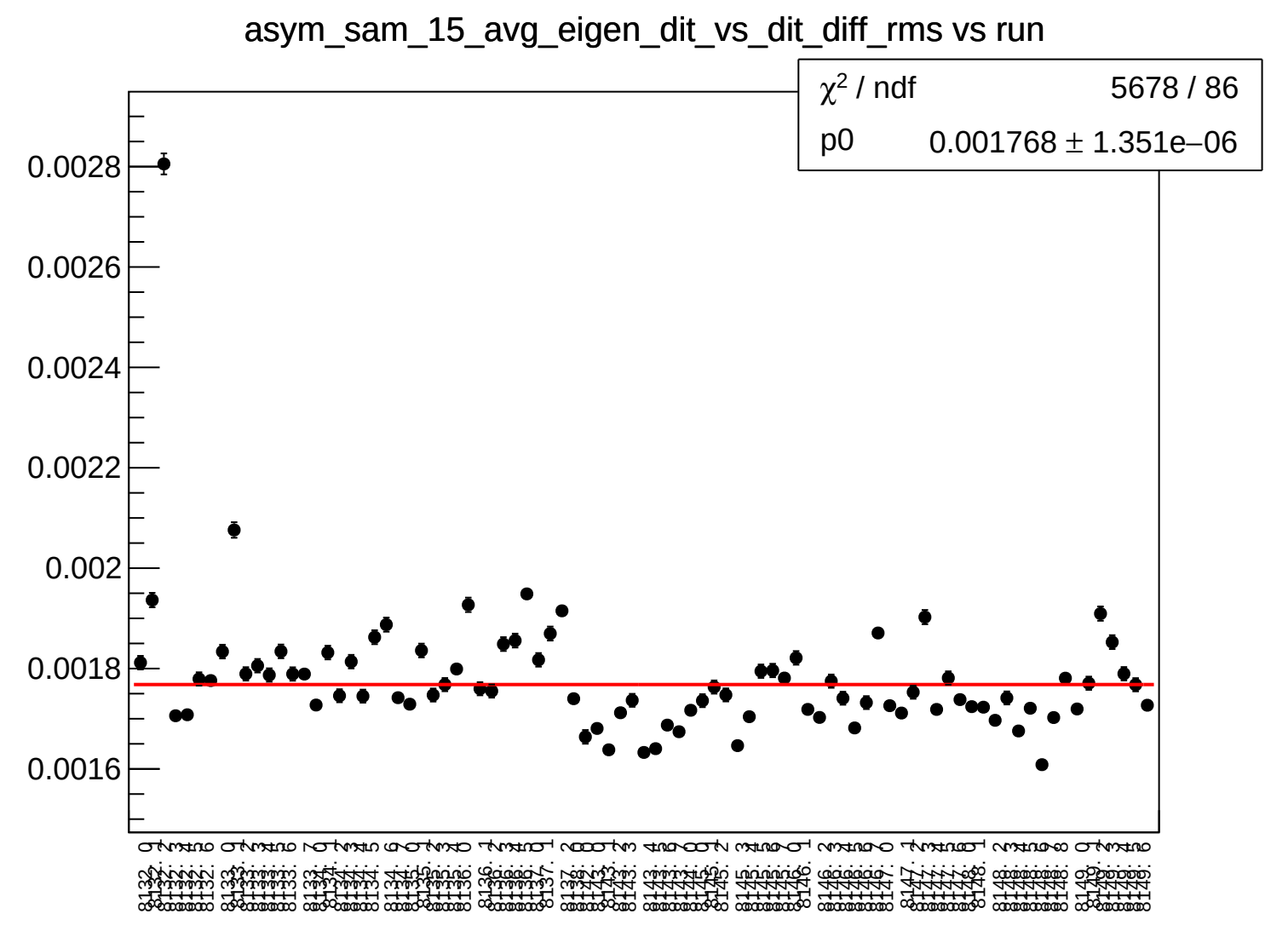

asym_sam_15_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 103.4 / 86
p0 −0.01115 ± 0.0303
pull
Entries 87
Mean 179.4
Std Dev 0
pull1D
Entries 87
Mean 0.04085
Std Dev 1.089

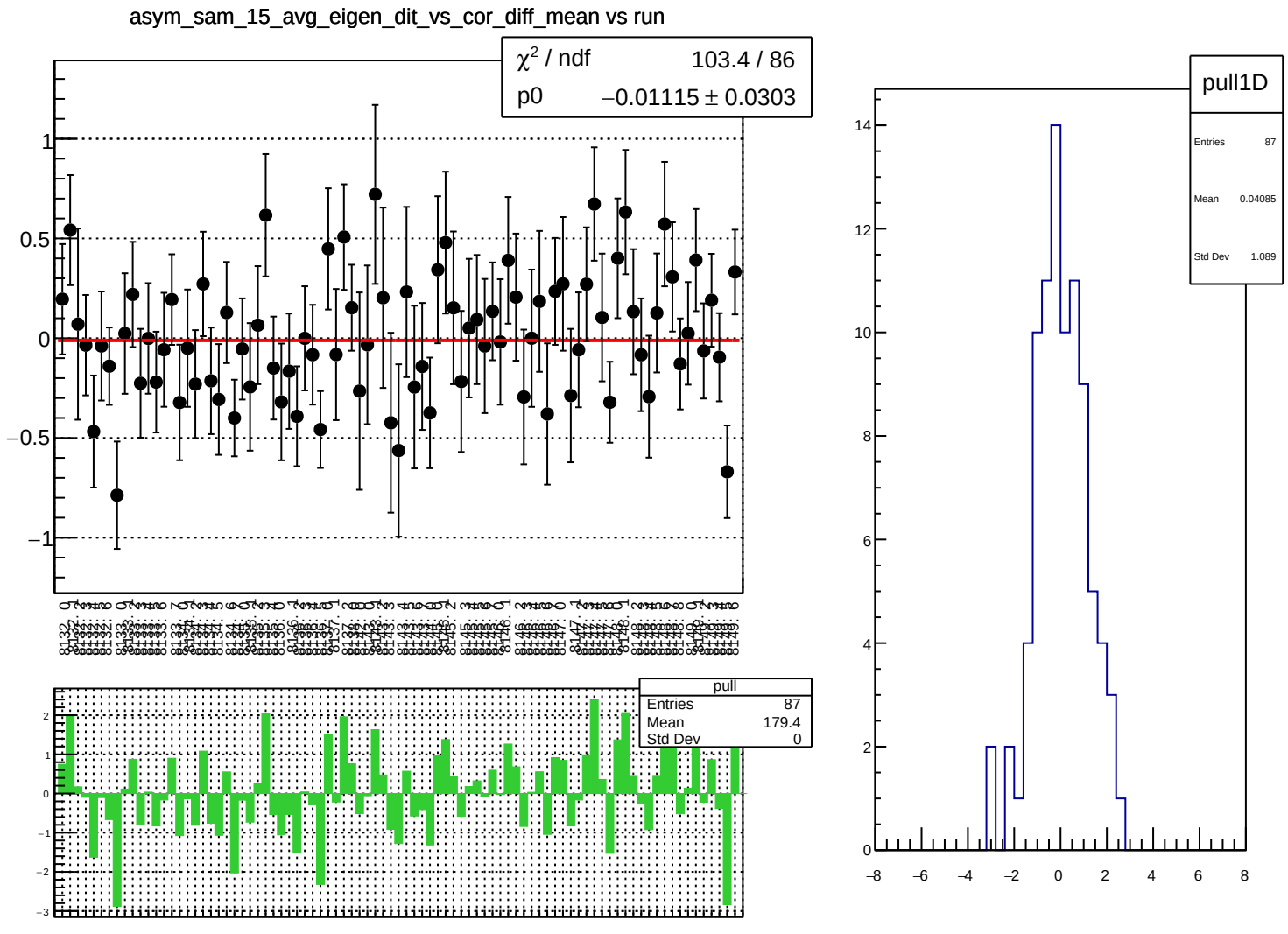

asym_sam_15_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.293e+04 / 86
p0 27.73 ± 0.02142
45
40
35
30
25
20

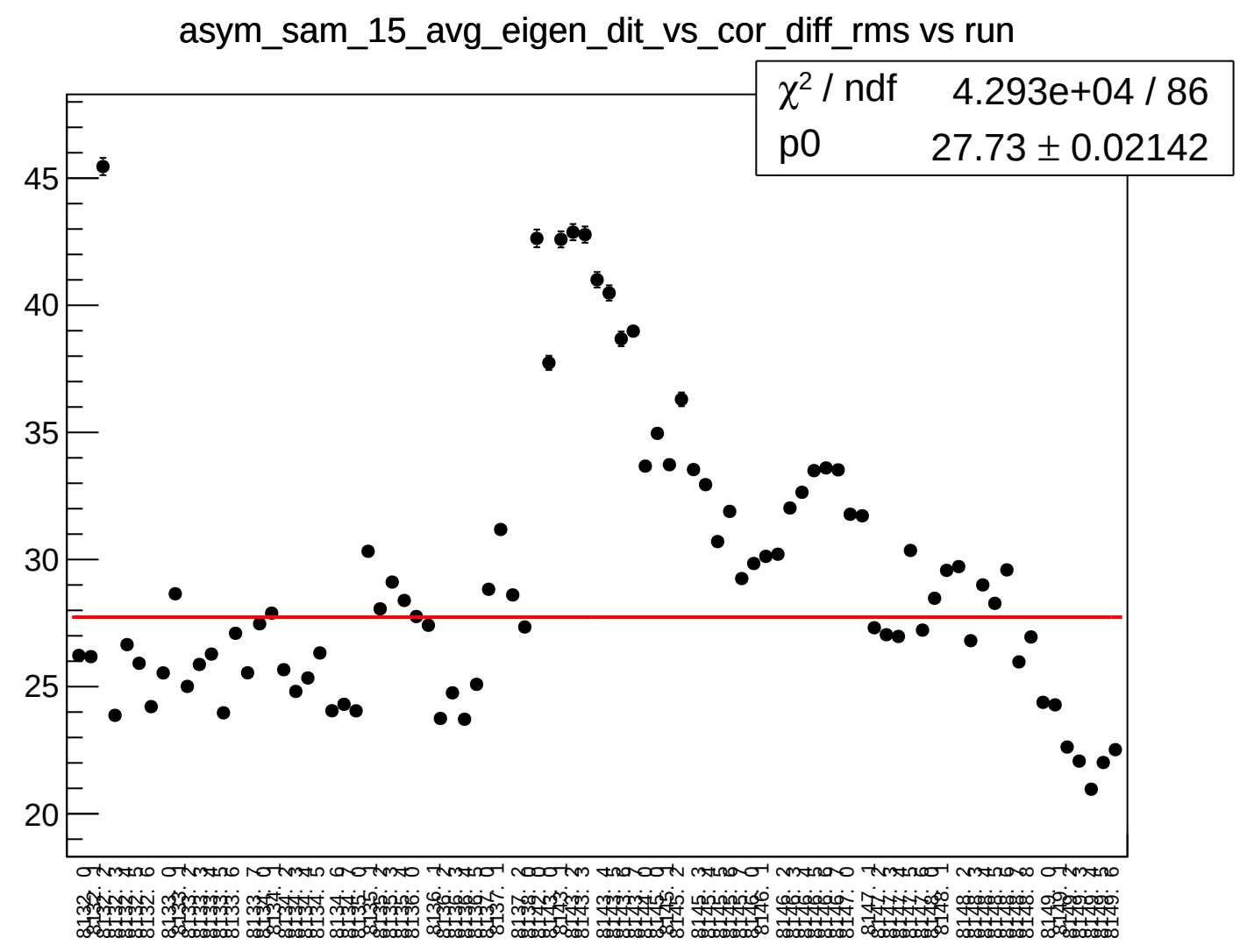

asym_sam_15_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.4 / 86
p0 −0.01115 ± 0.0303
pull
Entries 87
Mean 179.4
Std Dev 0
pull1D
Entries 87
Mean 0.04085
Std Dev 1.089

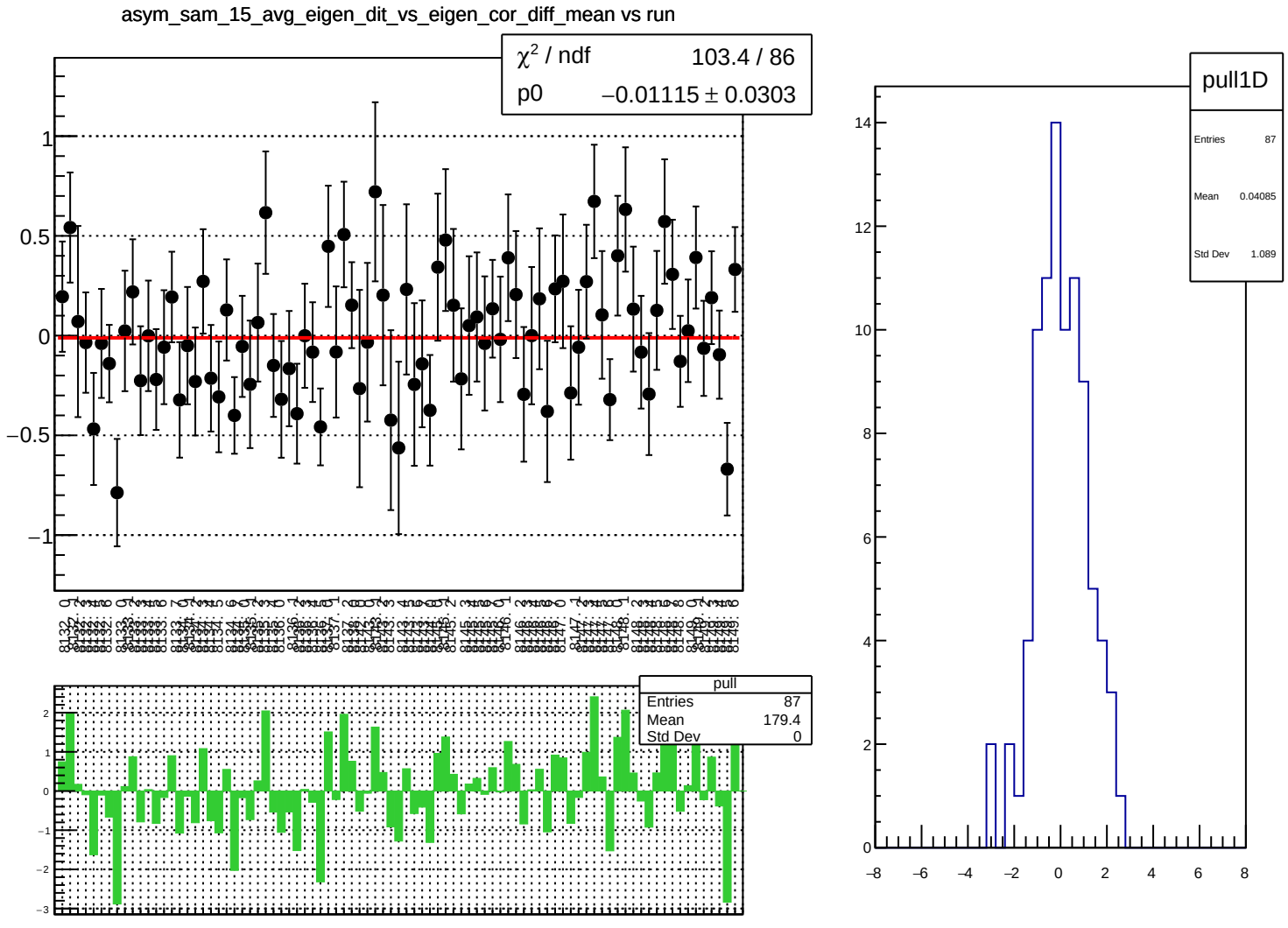

asym_sam_15_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.293e+04 / 86
p0 27.73 ± 0.02142
45
40
35
30
25
20

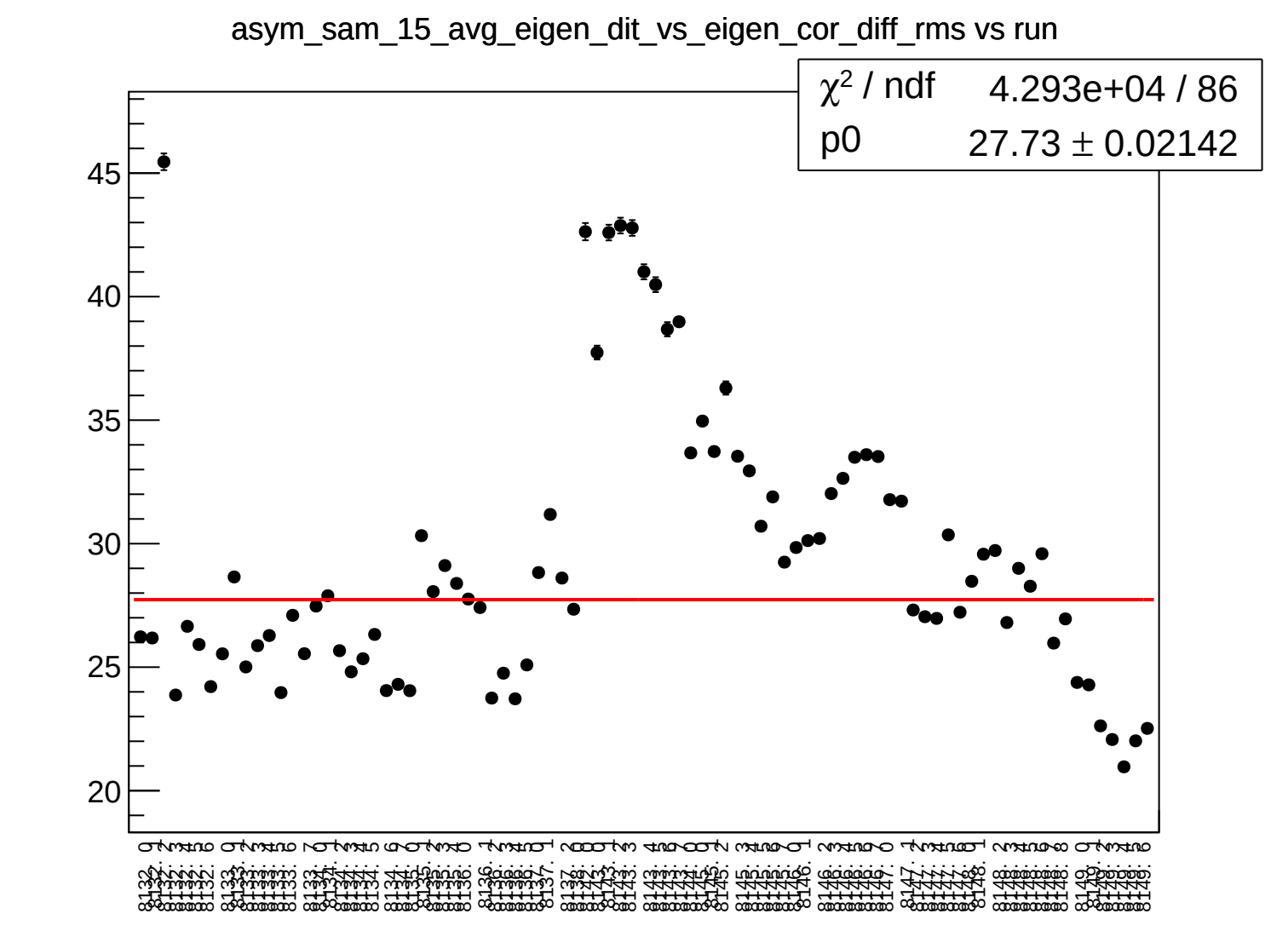

asym_sam_15_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 102.9 / 86
p0 1.645e−06 ± 1.91e−06
pull
Entries 87
Mean −1105
Std Dev 0
pull1D
Entries 87
Mean 0.00607
Std Dev 1.087

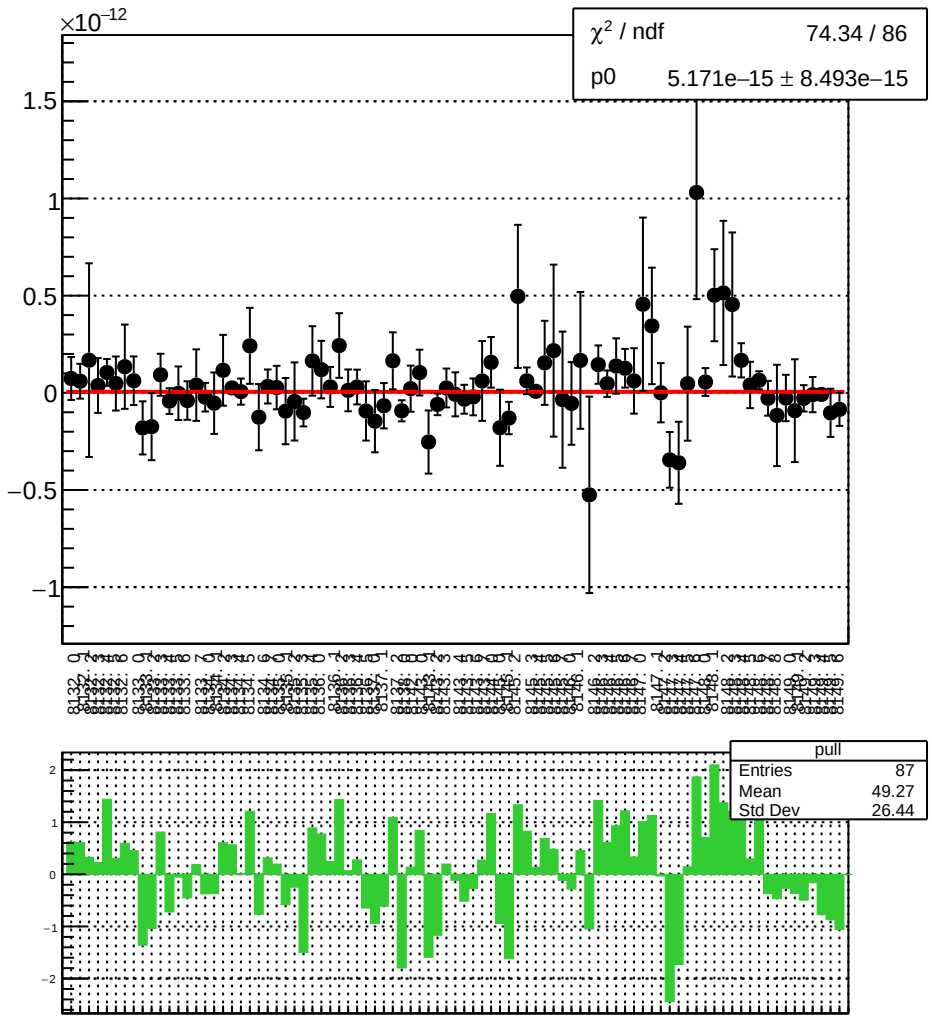

asym_sam_15_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5678 / 86
p0 0.001768 ± 1.351e−06
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016

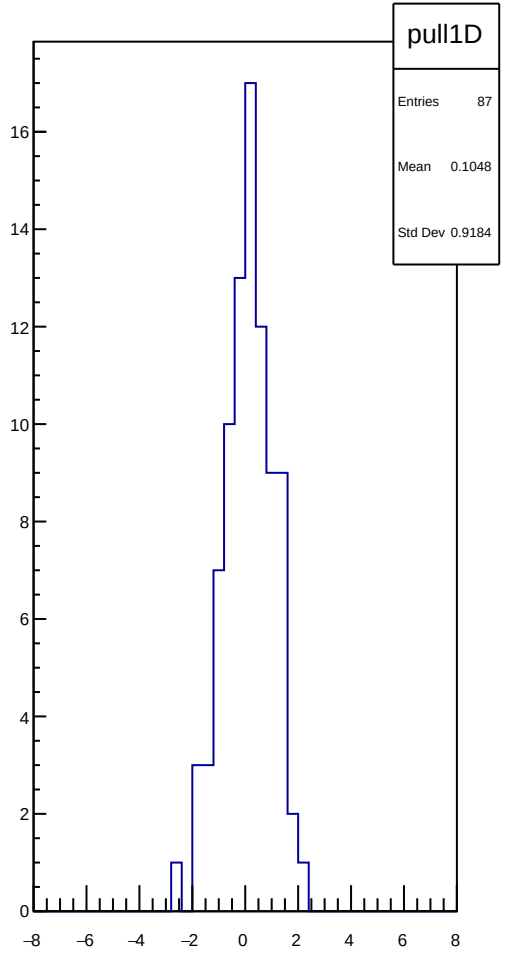

asym_sam_15_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 103.4 / 86
p0 −0.01115 ± 0.0303
pull
Entries 87
Mean 179.4
Std Dev 0
pull1D
Entries 87
Mean 0.04085
Std Dev 1.089

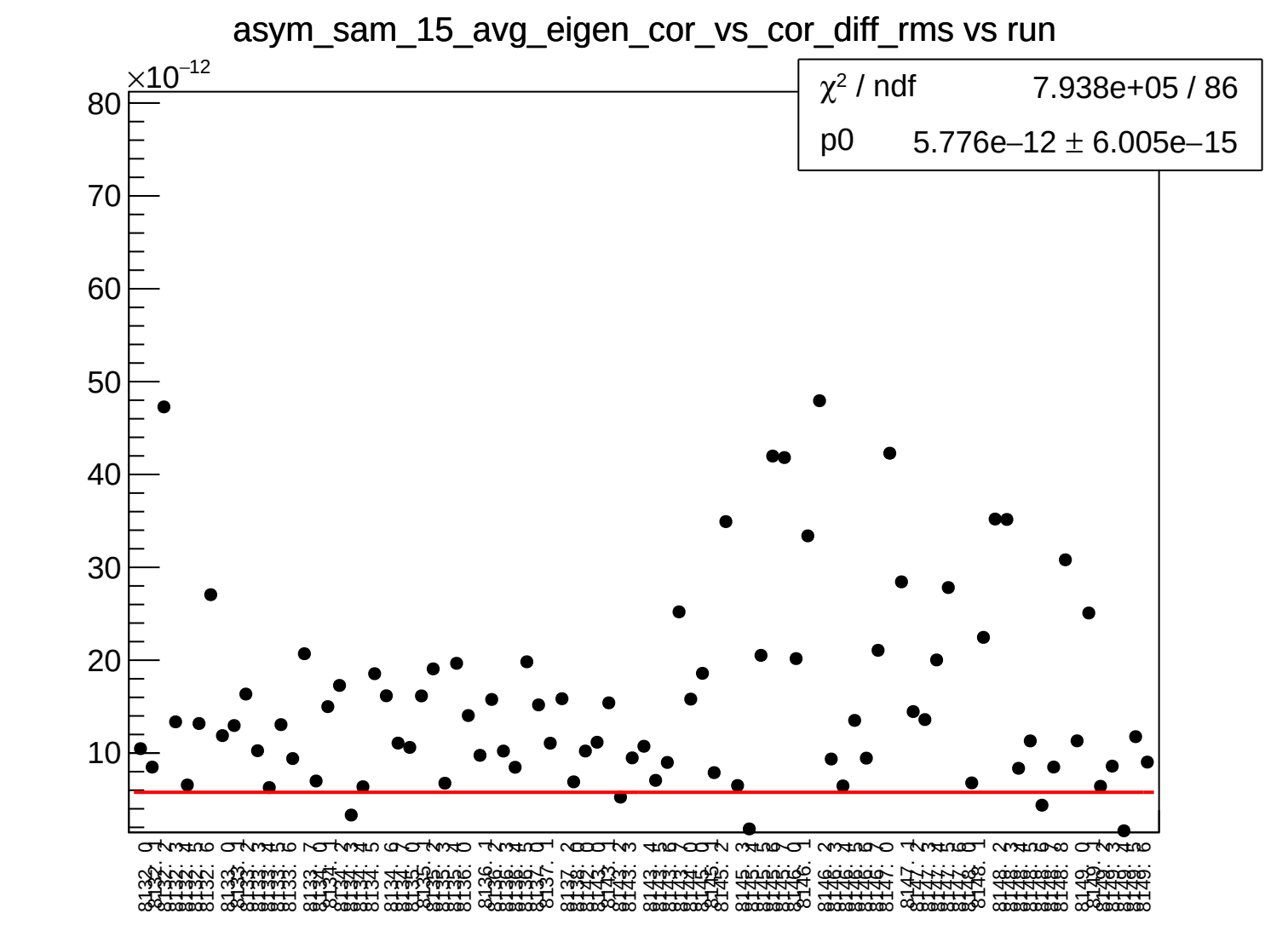

asym_sam_15_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.293e+04 / 86
p0 27.73 ± 0.02142
45
40
35
30
25
20

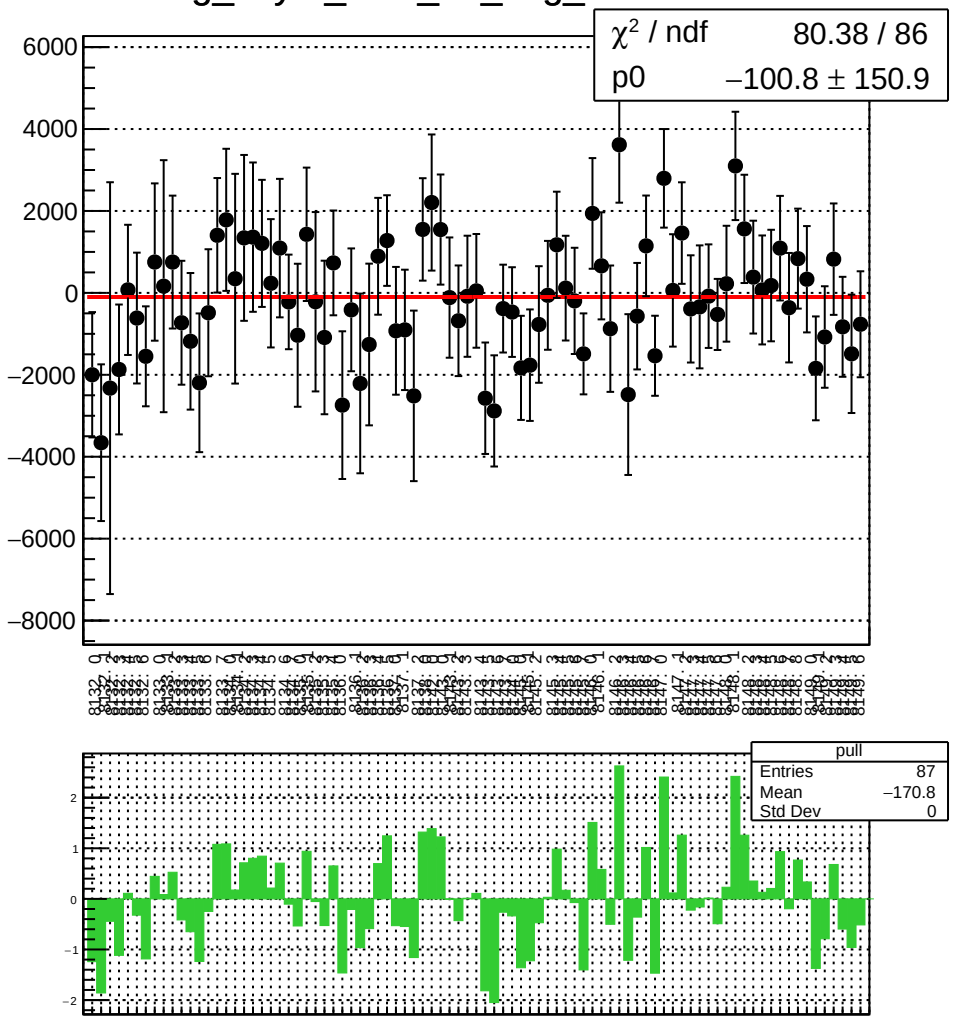

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.4 / 86
p0 −0.01115 ± 0.0303
pull
Entries 87
Mean 179.4
Std Dev 0
pull1D
Entries 87
Mean 0.04085
Std Dev 1.089

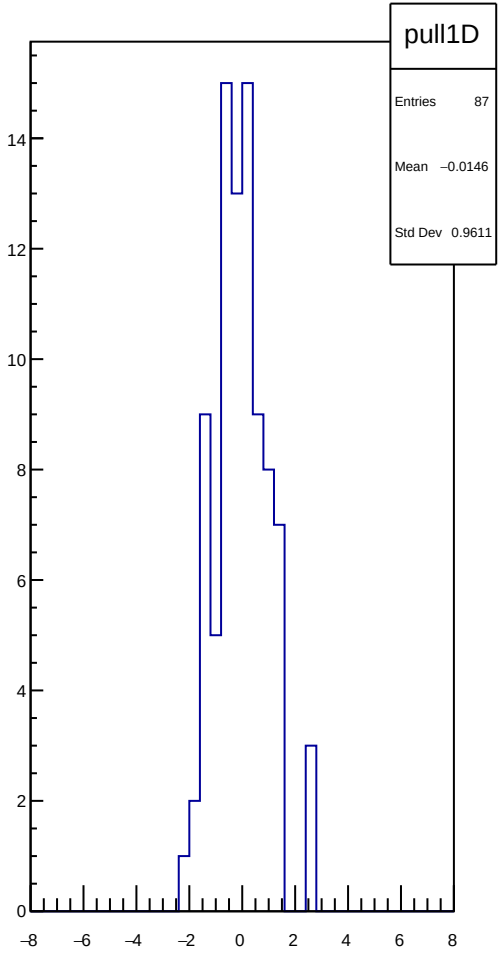

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.293e+04 / 86
p0 27.73 ± 0.02142
45
40
35
30
25
20

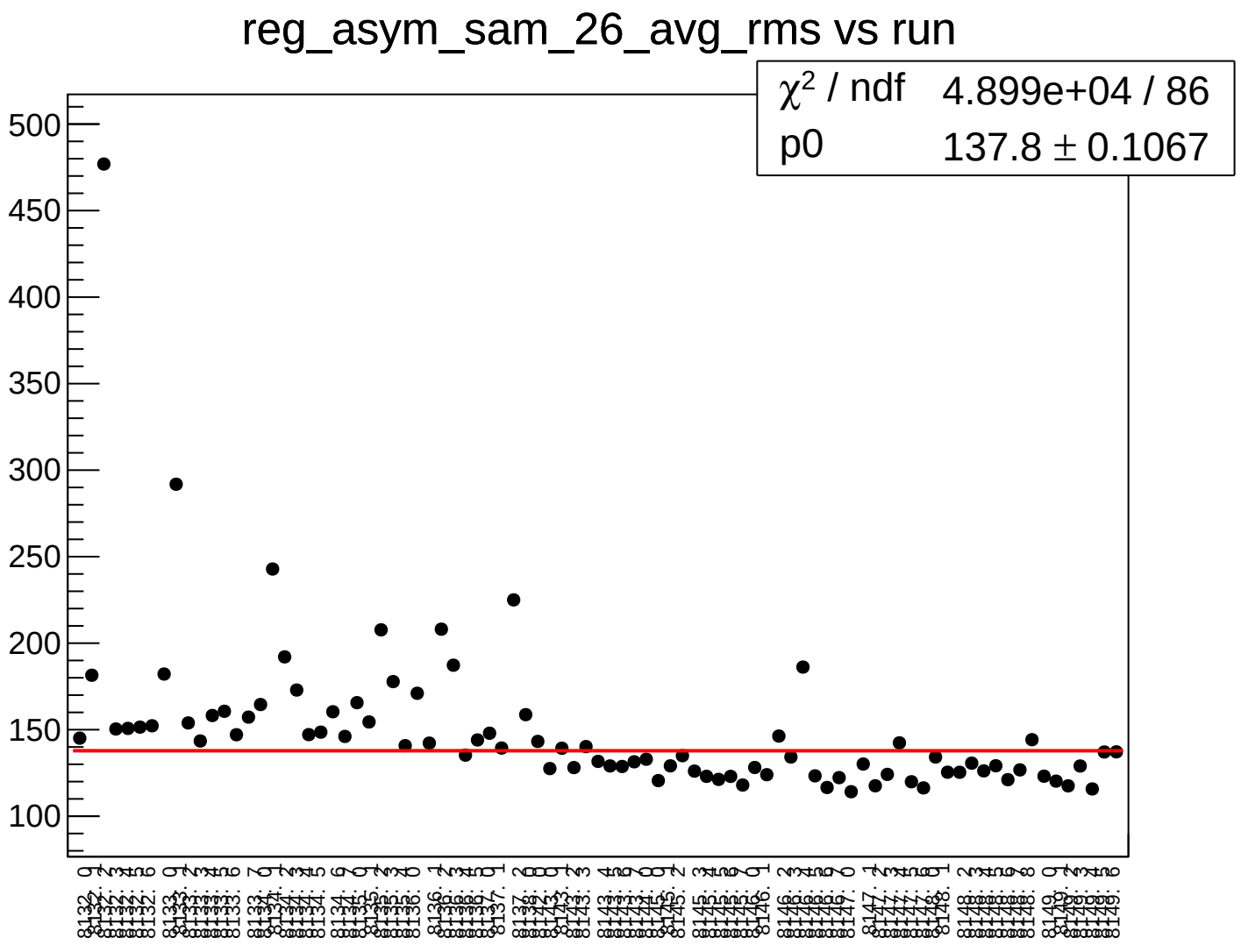

asym_sam_15_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.34 / 86
p0 5.171e−15 ± 8.493e−15
1.5
1
0.5
0
−0.5
−1
pull
Entries 87
Mean 49.27
Std Dev 26.44
2
1
0
−1
−2

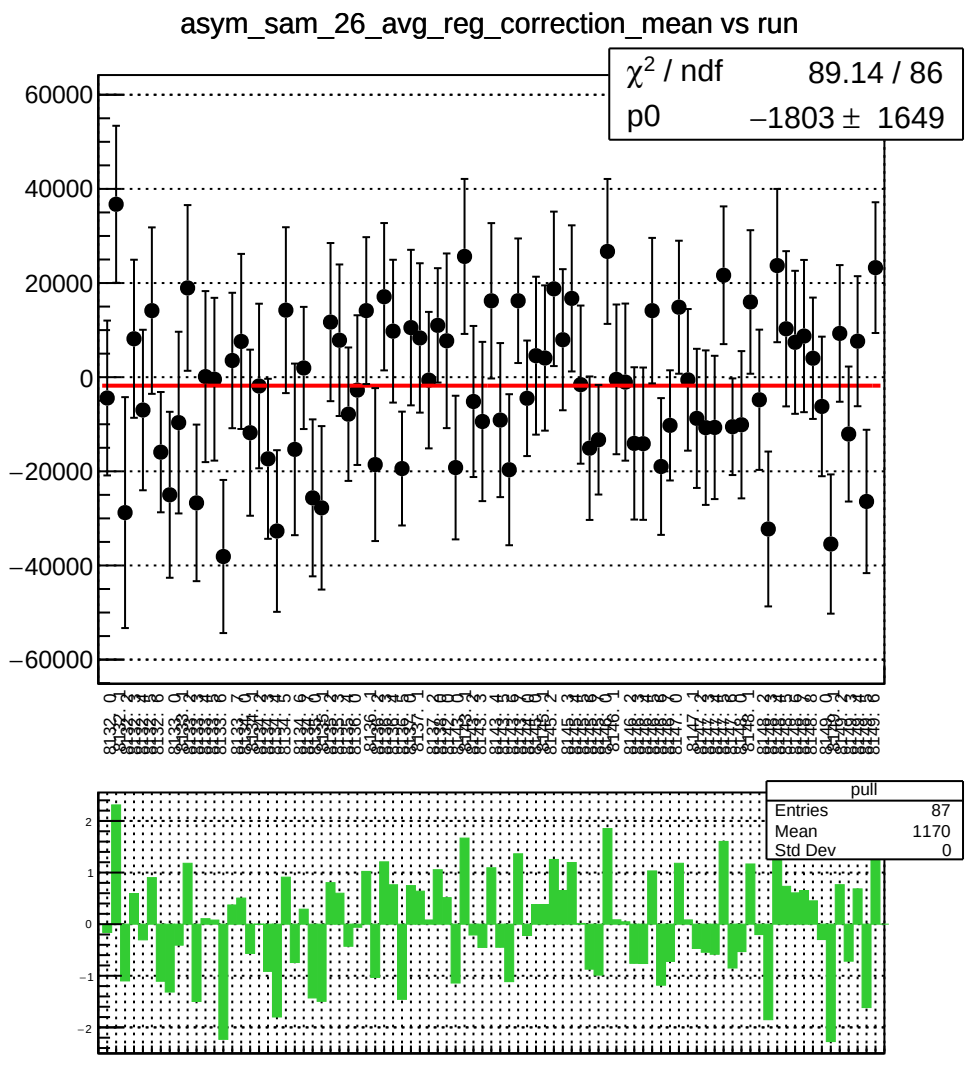

pull1D
Entries 87
Mean 0.1048
Std Dev 0.9184
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

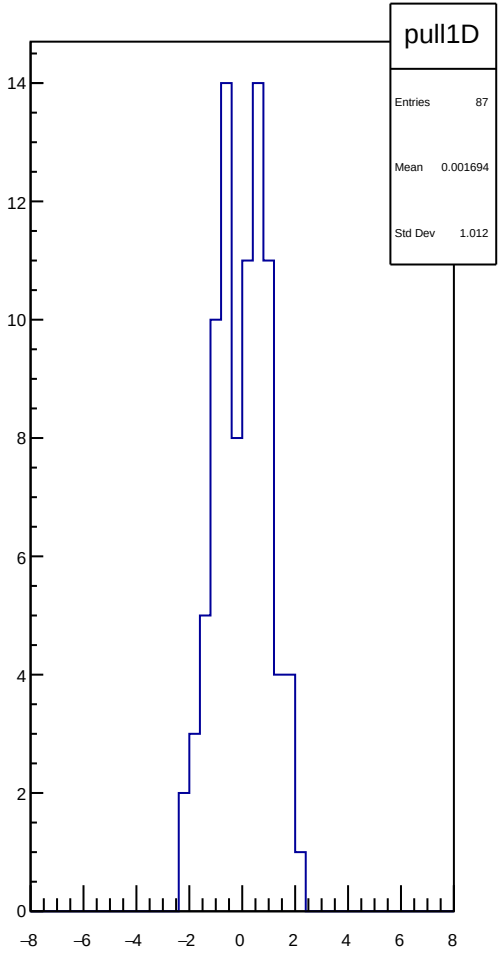

asym_sam_15_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.938e+05 / 86
p0 5.776e−12 ± 6.005e−15
80
70
60
50
40
30
20
10

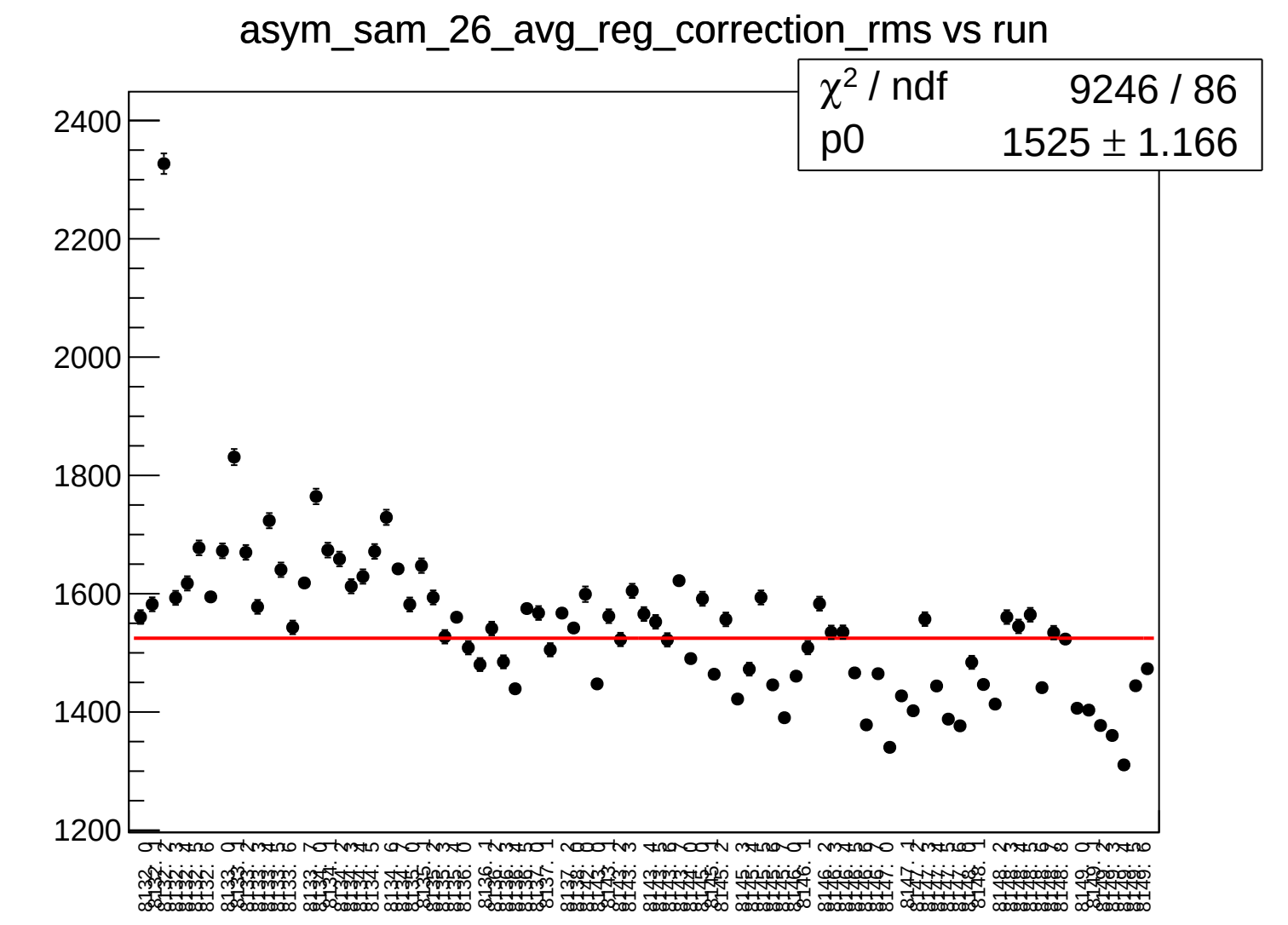

reg_asym_sam_26_avg_mean vs run
χ² / ndf 80.38 / 86
p0 −100.8 ± 150.9
pull
Entries 87
Mean −170.8
Std Dev 0

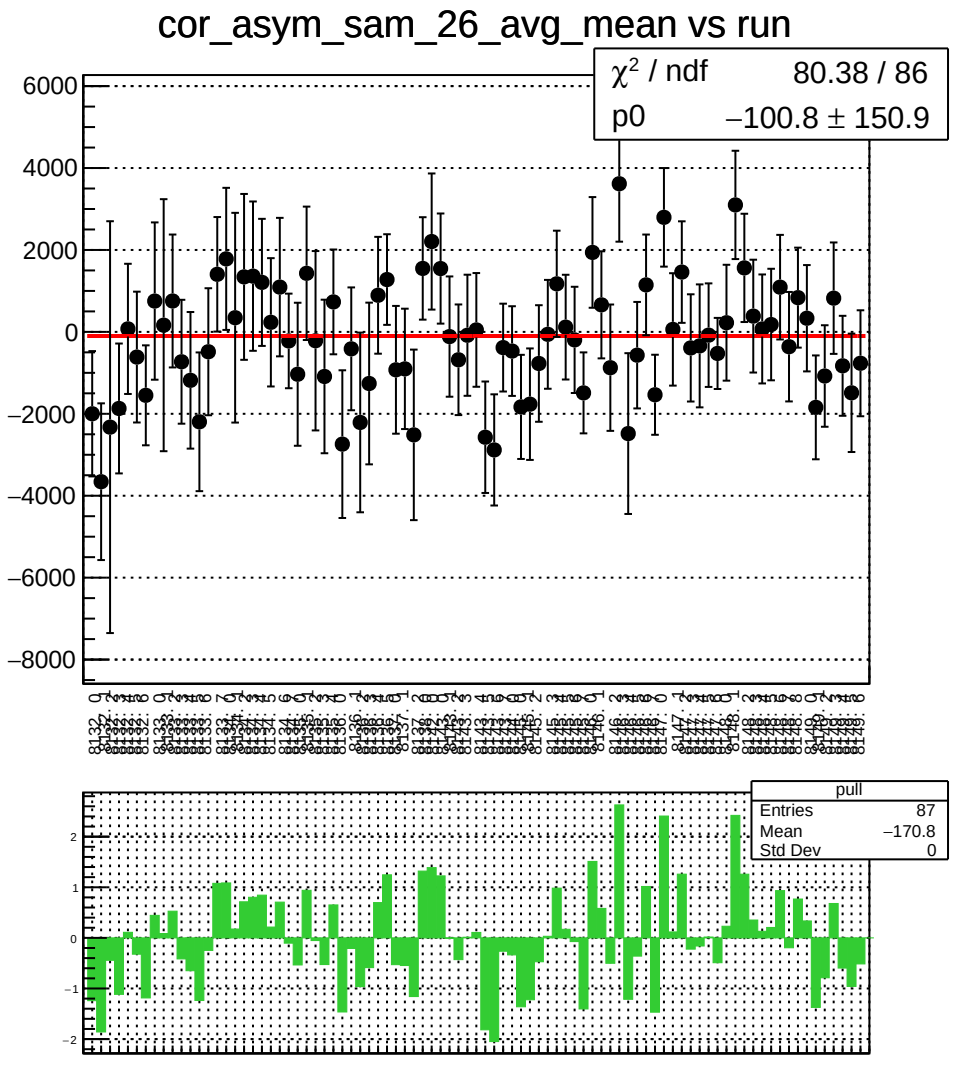

pull1D
Entries 87
Mean −0.0146
Std Dev 0.9611

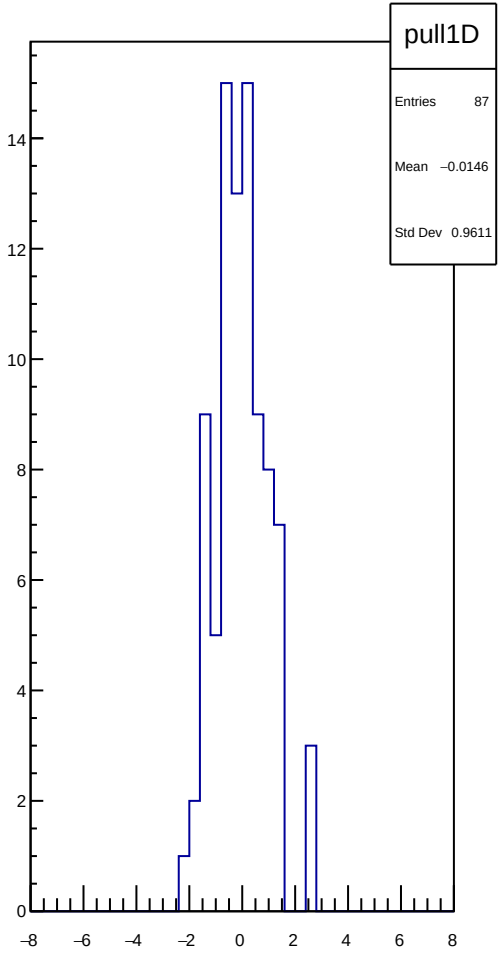

reg_asym_sam_26_avg_rms vs run
χ² / ndf 4.899e+04 / 86
p0 137.8 ± 0.1067
500
450
400
350
300
250
200
150
100

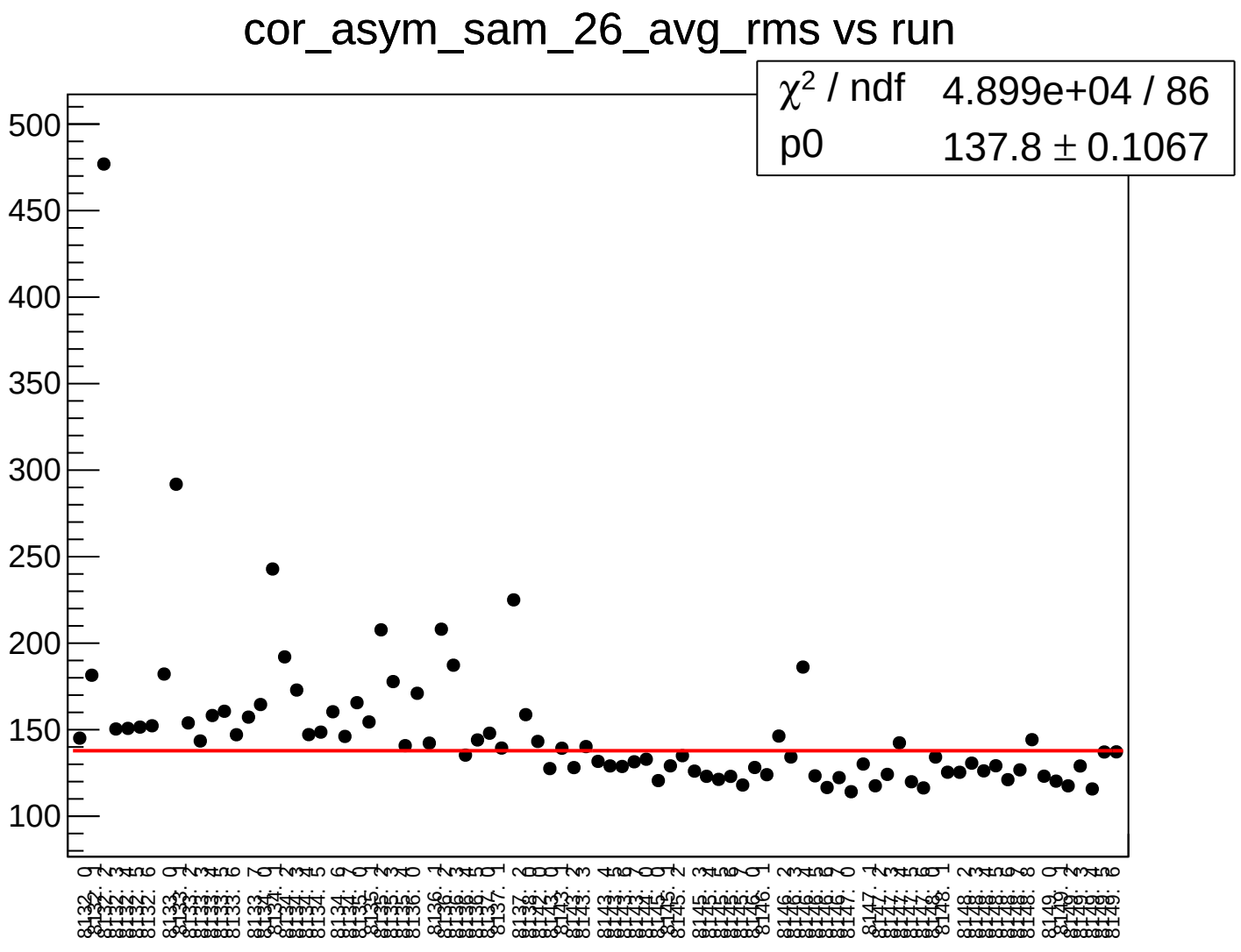

asym_sam_26_avg_reg_correction_mean vs run
χ² / ndf 89.14 / 86
p0 −1803 ± 1649
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 1170
Std Dev 0
2
1
0
−1
−2

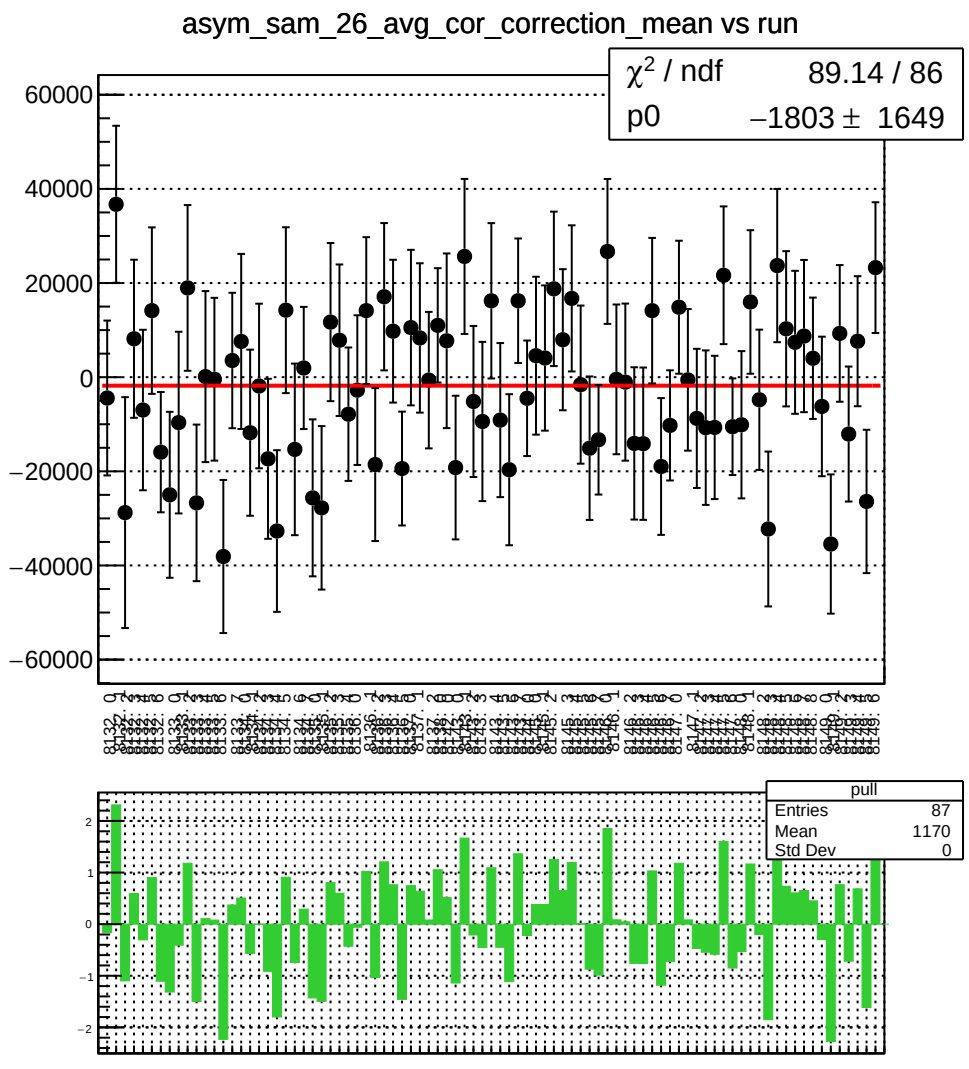

pull1D
Entries 87
Mean 0.001694
Std Dev 1.012
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

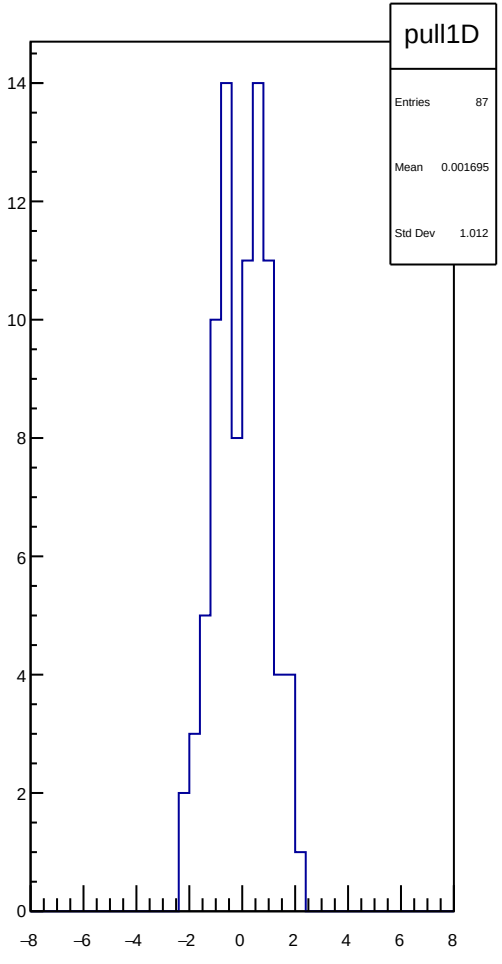

asym_sam_26_avg_reg_correction_rms vs run
χ² / ndf 9246 / 86
p0 1525 ± 1.166
2400
2200
2000
1800
1600
1400
1200

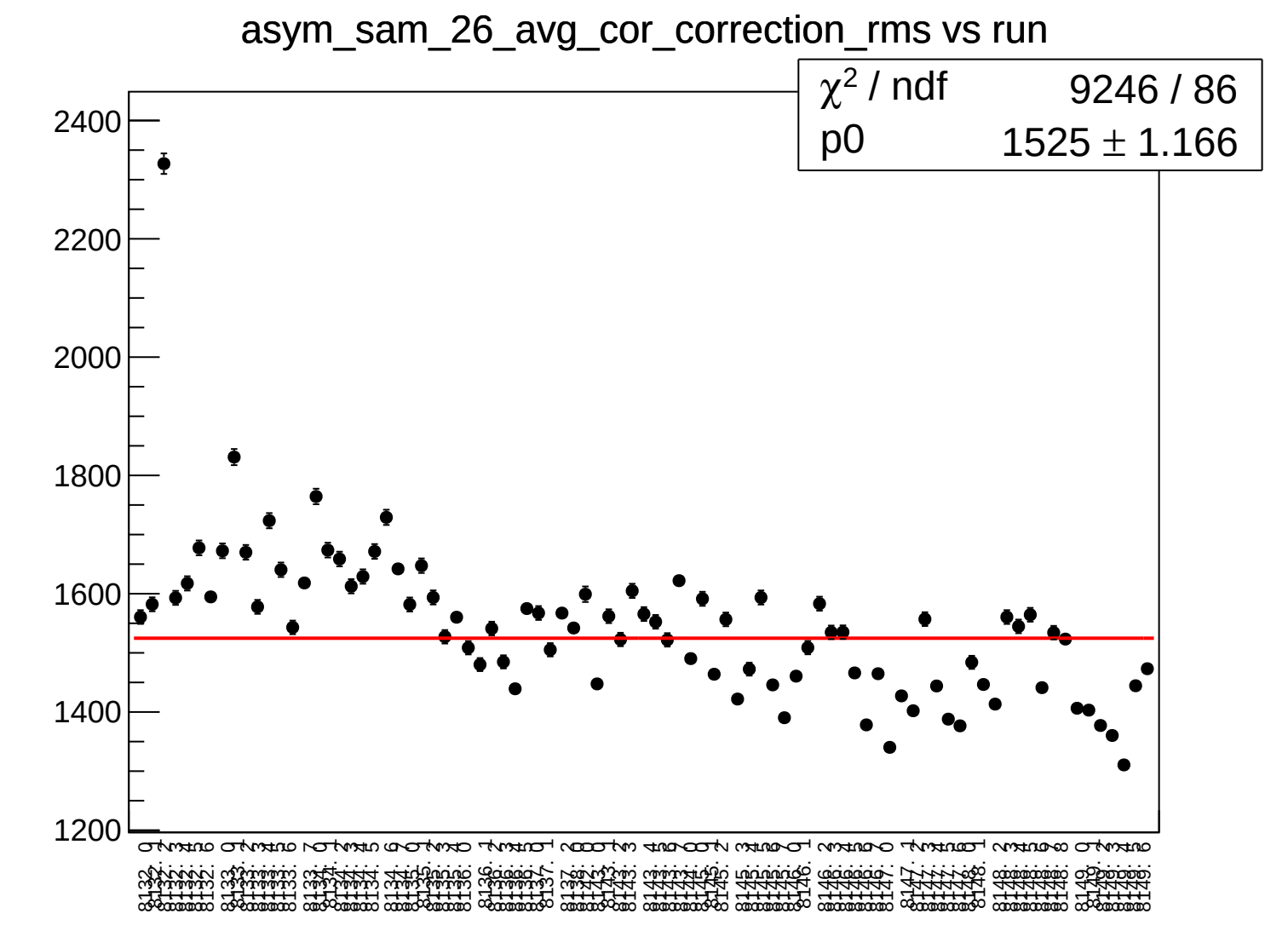

cor_asym_sam_26_avg_mean vs run
χ² / ndf 80.38 / 86
p0 −100.8 ± 150.9
pull
Entries 87
Mean −170.8
Std Dev 0

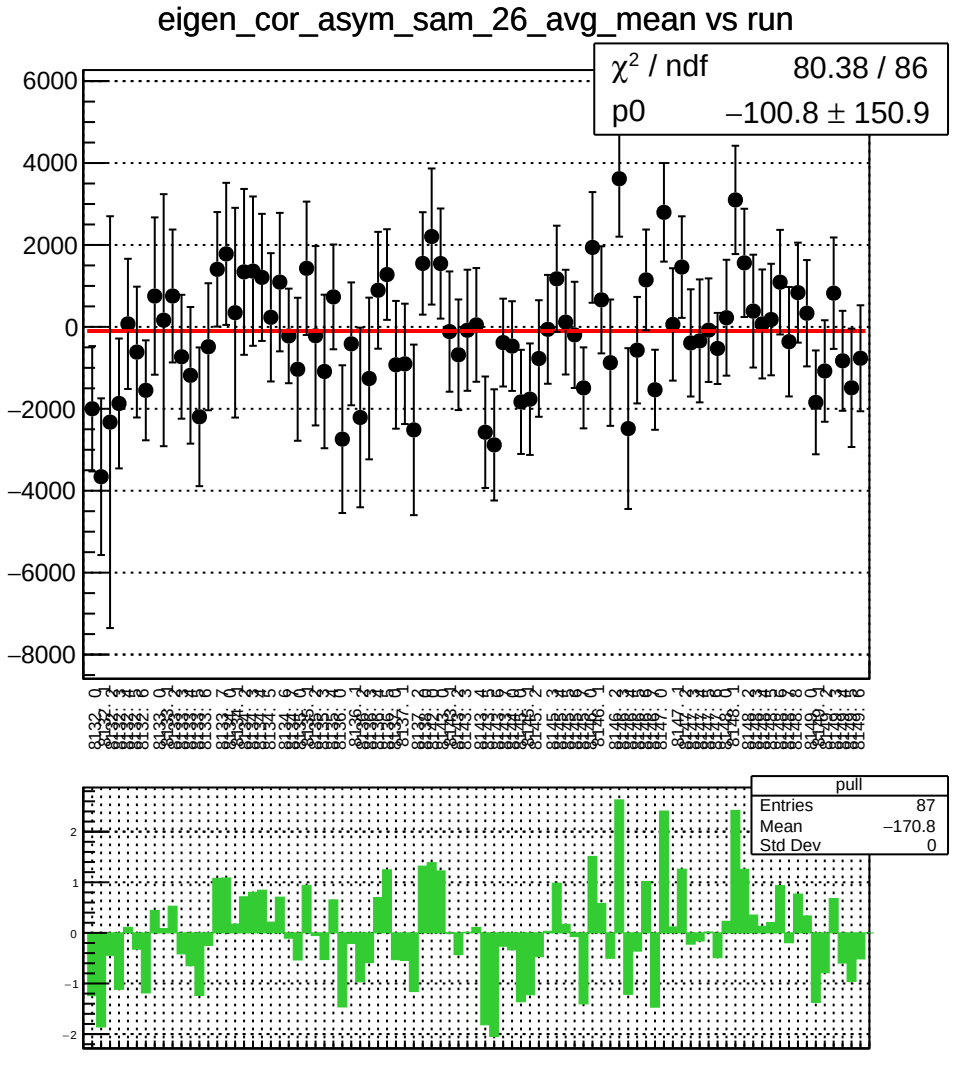

pull1D
Entries 87
Mean −0.0146
Std Dev 0.9611

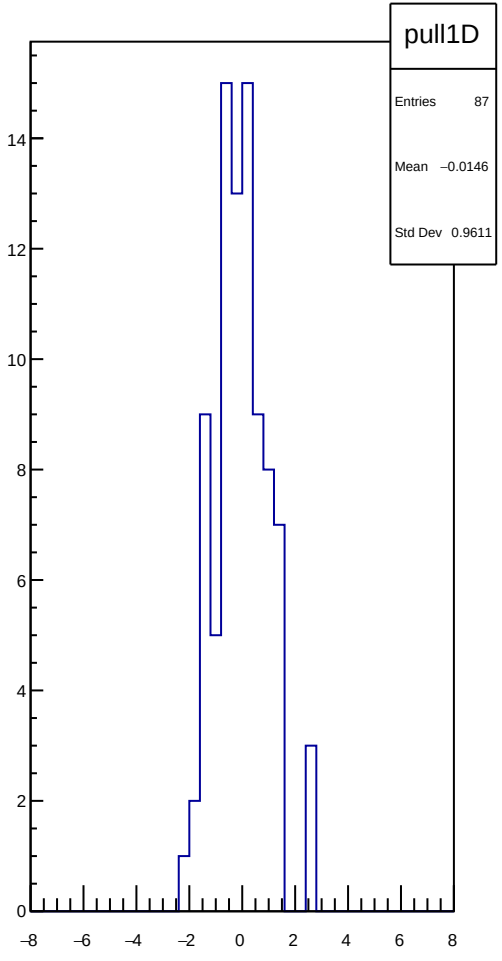

cor_asym_sam_26_avg_rms vs run
χ² / ndf 4.899e+04 / 86
p0 137.8 ± 0.1067
500
450
400
350
300
250
200
150
100

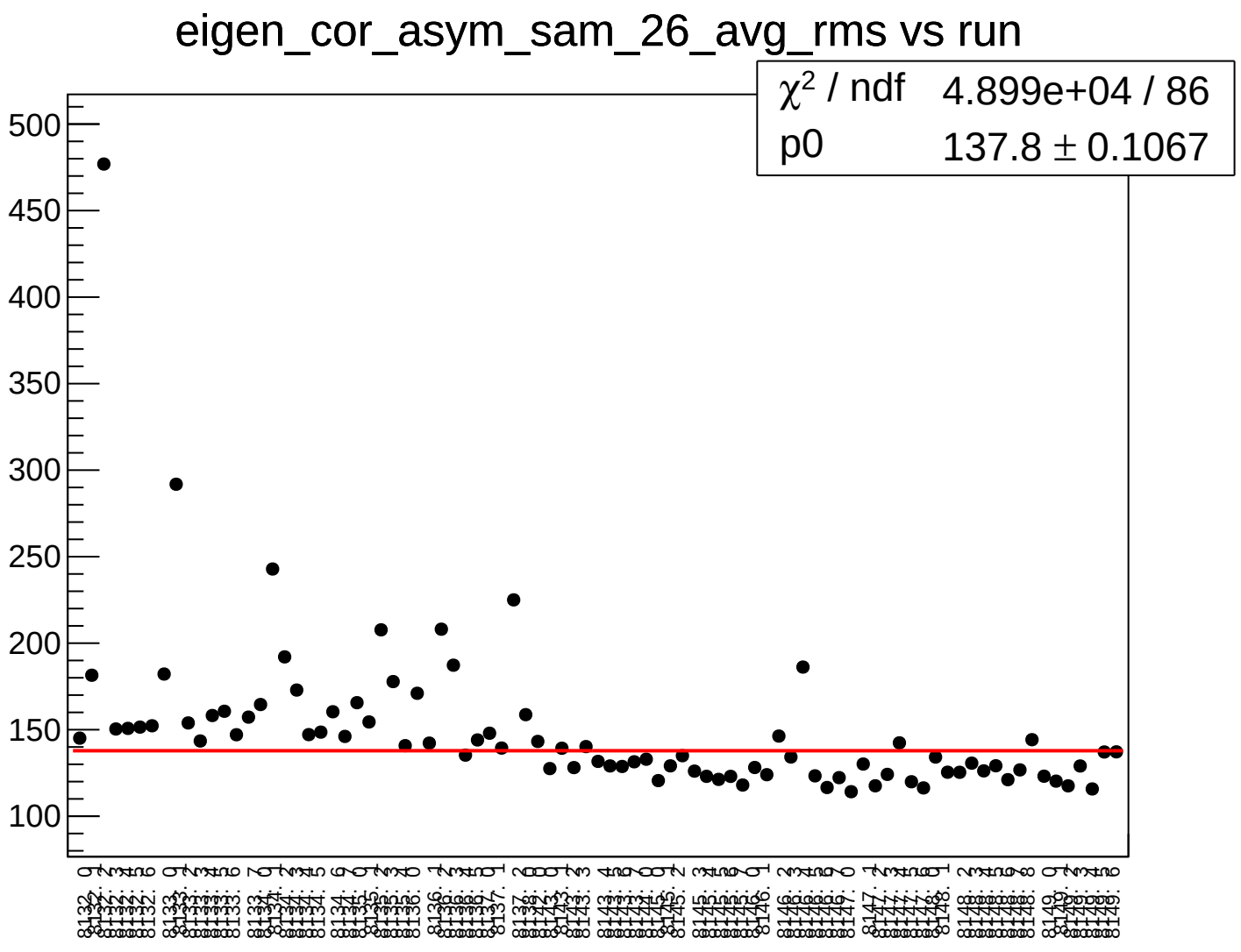

asym_sam_26_avg_cor_correction_mean vs run
χ² / ndf 89.14 / 86
p0 −1803 ± 1649
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 1170
Std Dev 0
2
1
0
−1
−2

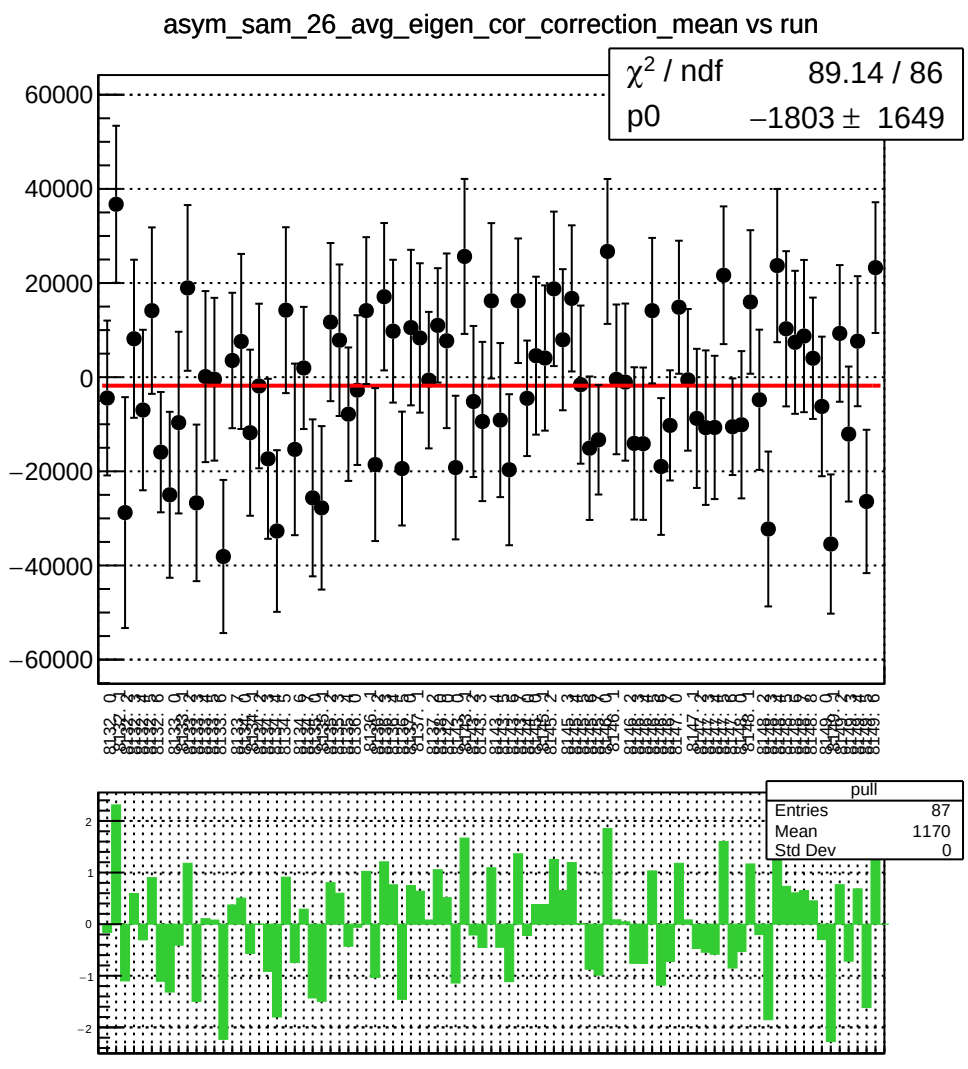

pull1D
Entries 87
Mean 0.001695
Std Dev 1.012
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

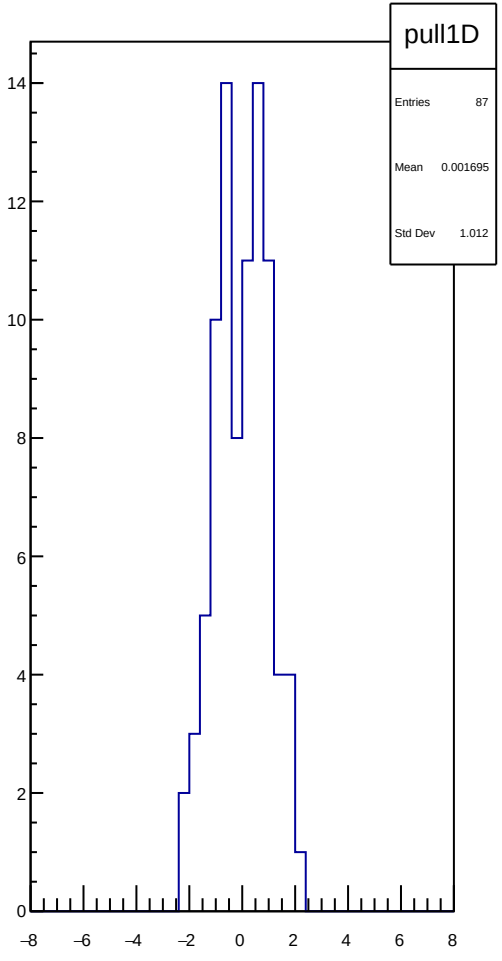

asym_sam_26_avg_cor_correction_rms vs run
χ² / ndf 9246 / 86
p0 1525 ± 1.166
2400
2200
2000
1800
1600
1400
1200

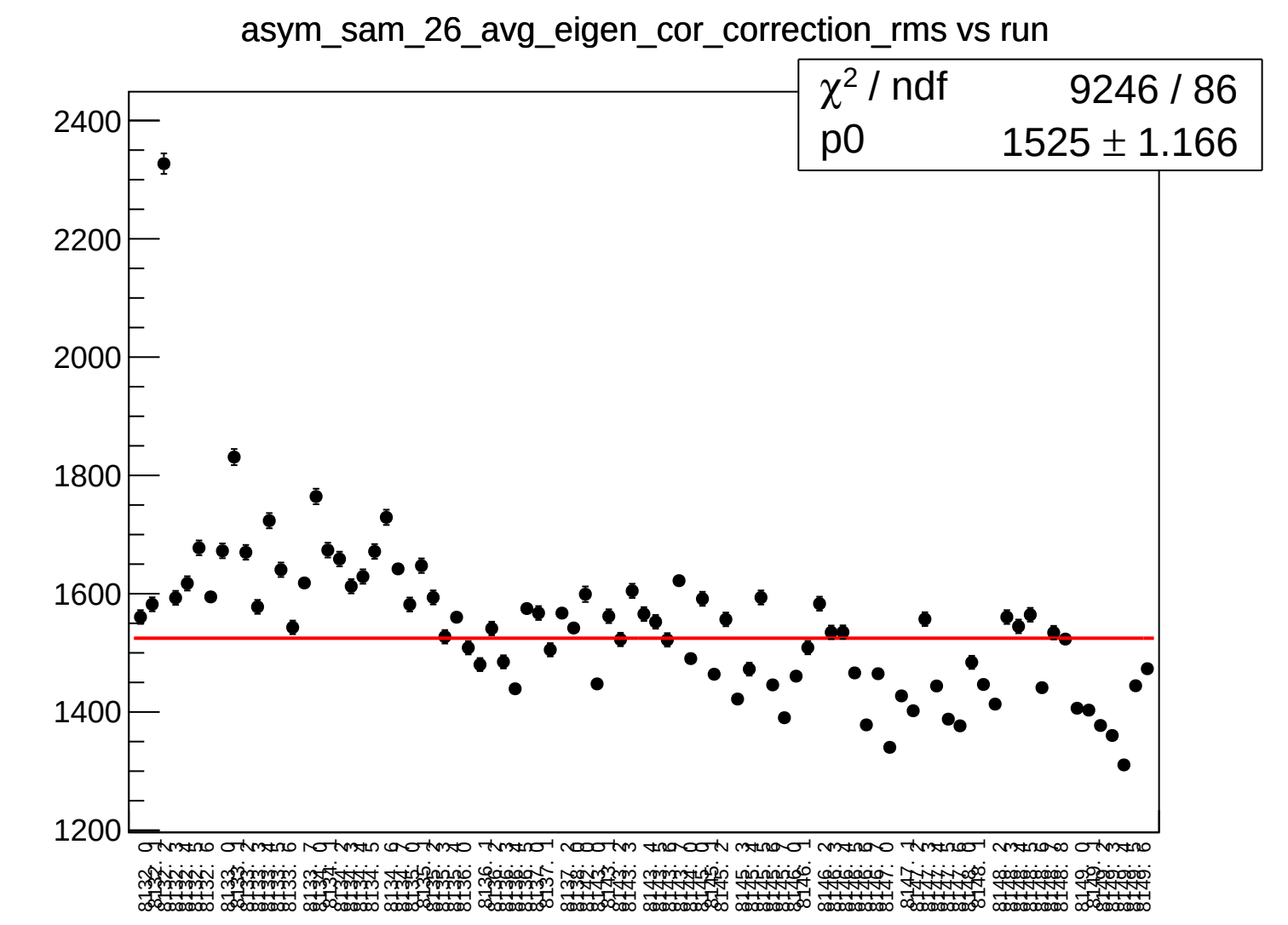

eigen_cor_asym_sam_26_avg_mean vs run
χ² / ndf 80.38 / 86
p0 −100.8 ± 150.9
pull
Entries 87
Mean −170.8
Std Dev 0

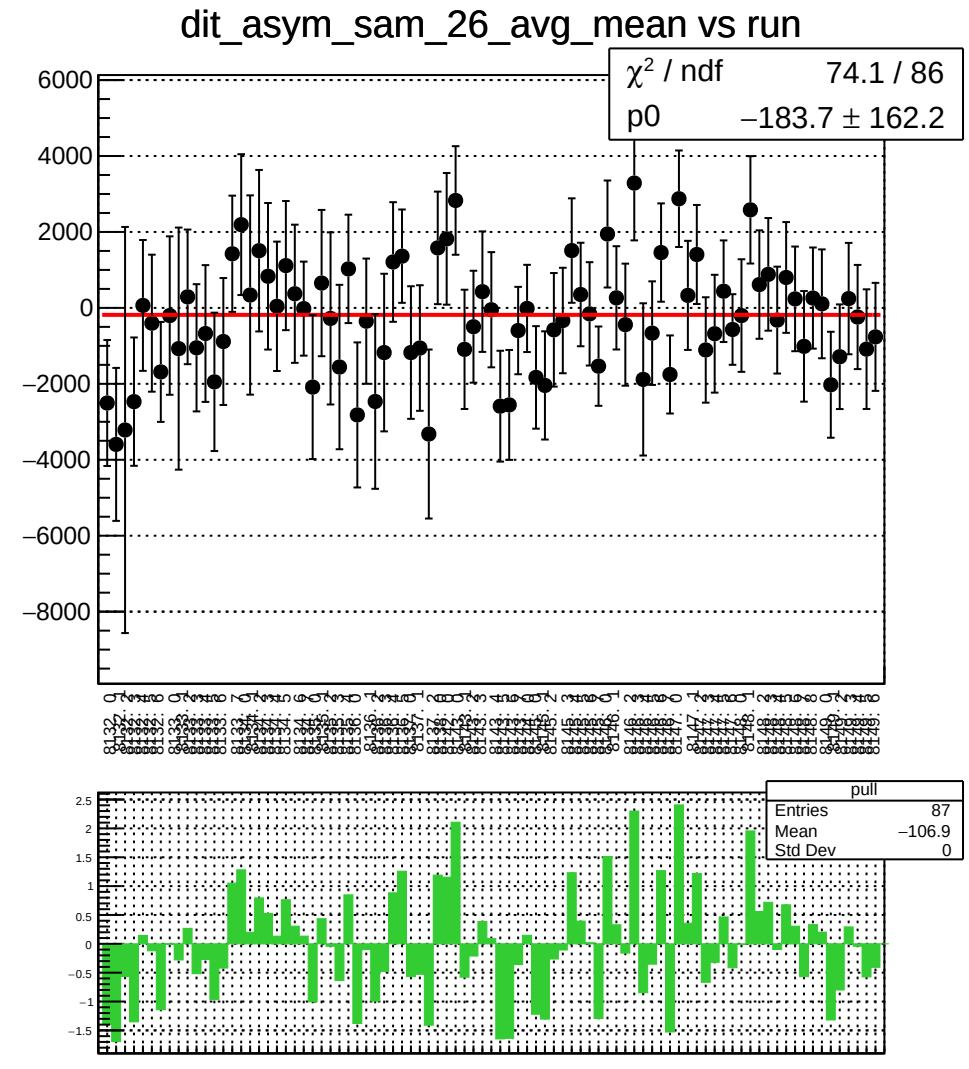

pull1D
Entries 87
Mean −0.0146
Std Dev 0.9611

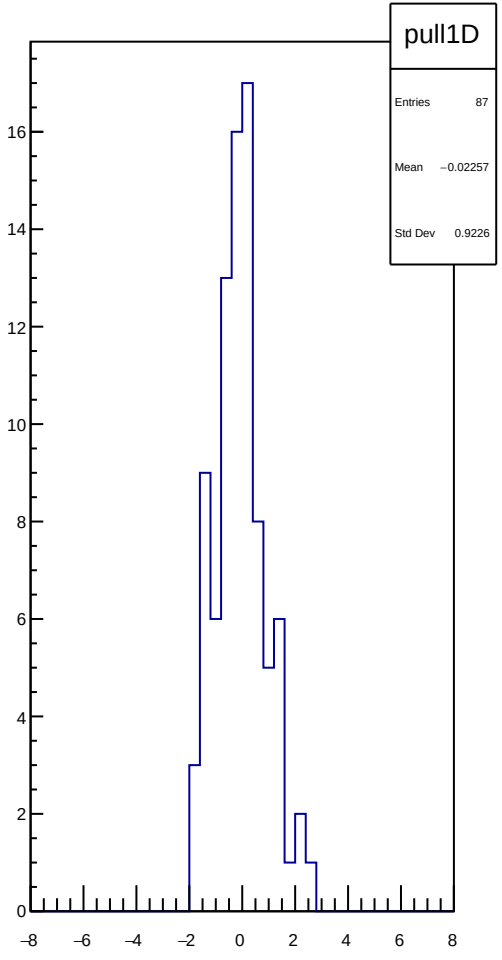

eigen_cor_asym_sam_26_avg_rms vs run
χ² / ndf 4.899e+04 / 86
p0 137.8 ± 0.1067
500
450
400
350
300
250
200
150
100

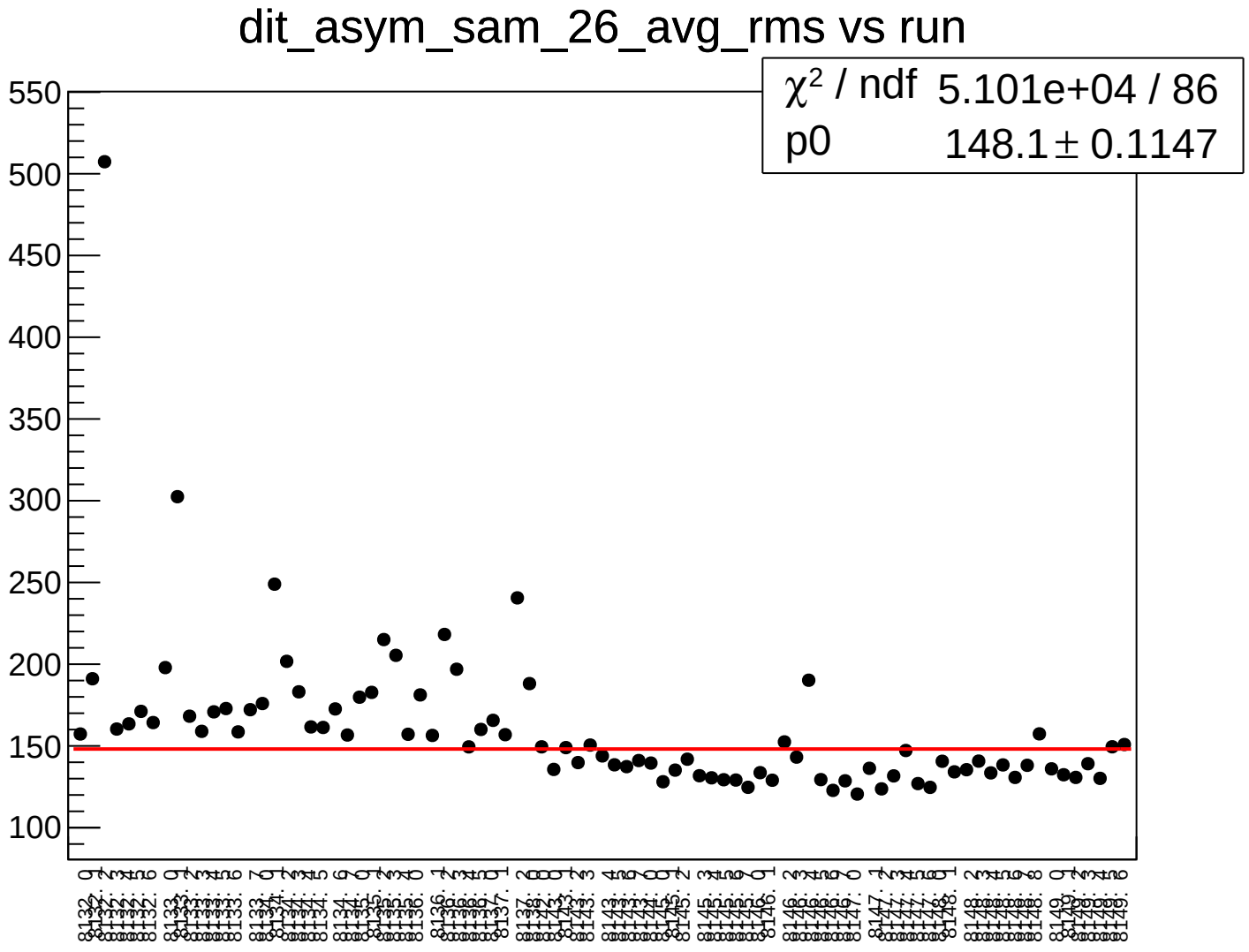

asym_sam_26_avg_eigen_cor_correction_mean vs run
χ² / ndf 89.14 / 86
p0 −1803 ± 1649
pull
Entries 87
Mean 1170
Std Dev 0

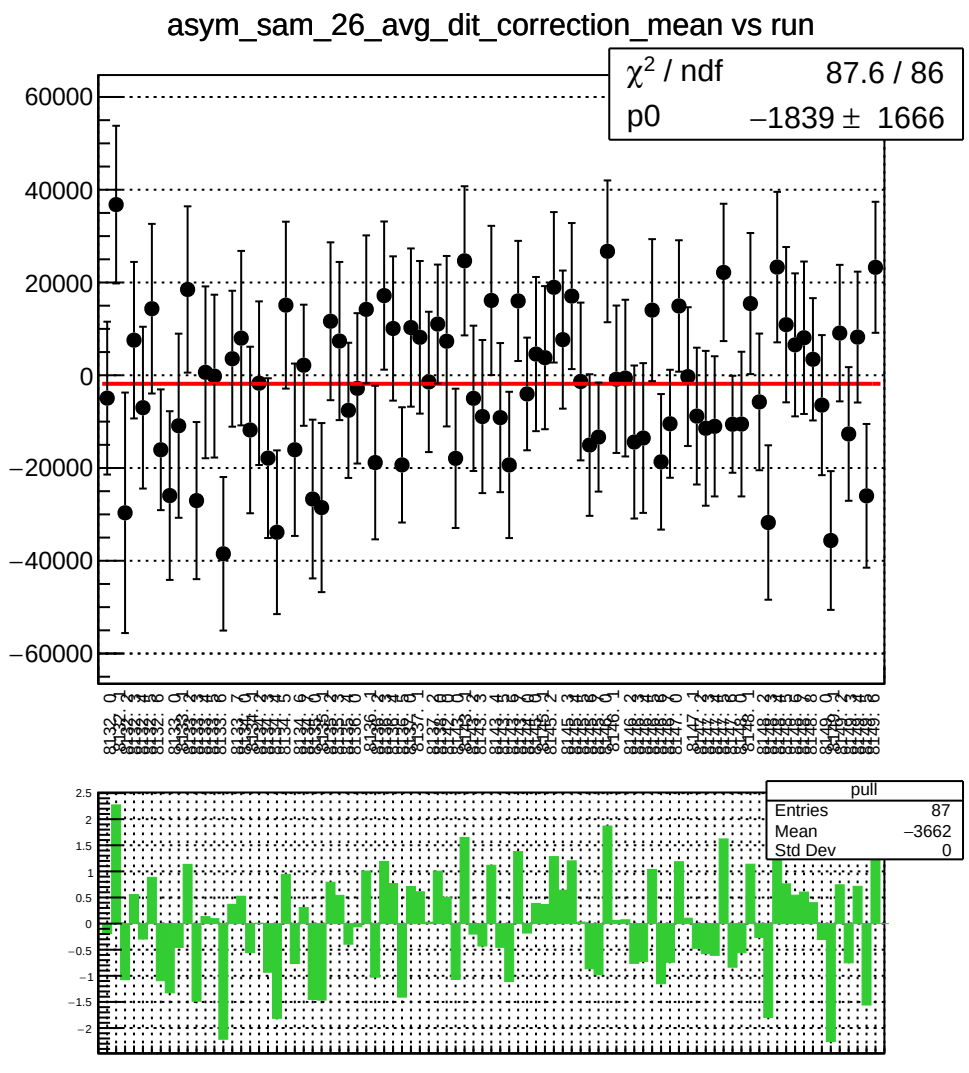

pull1D
Entries 87
Mean 0.001695
Std Dev 1.012

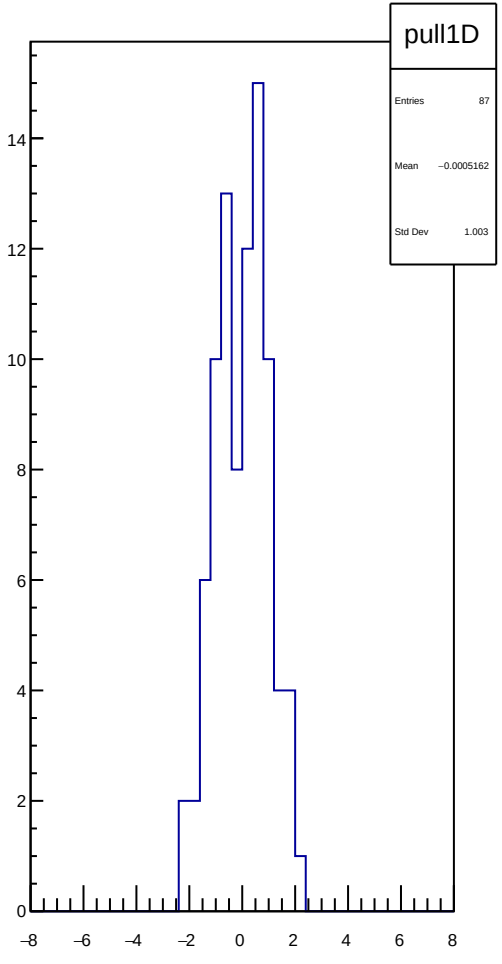

asym_sam_26_avg_eigen_cor_correction_rms vs run
χ² / ndf 9246 / 86
p0 1525 ± 1.166
2400
2200
2000
1800
1600
1400
1200

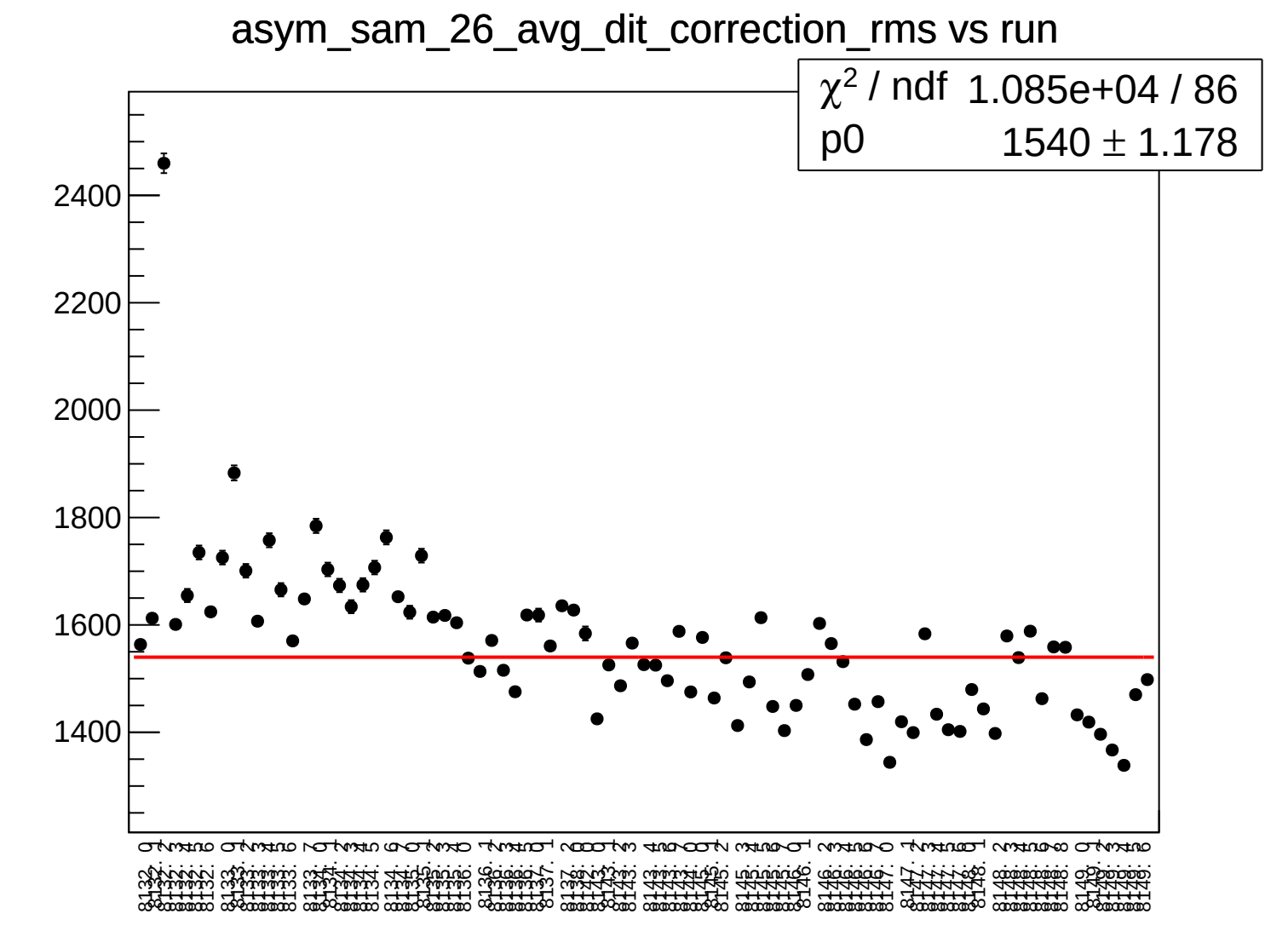

dit_asym_sam_26_avg_mean vs run
χ² / ndf 74.1 / 86
p0 −183.7 ± 162.2
pull
Entries 87
Mean −106.9
Std Dev 0

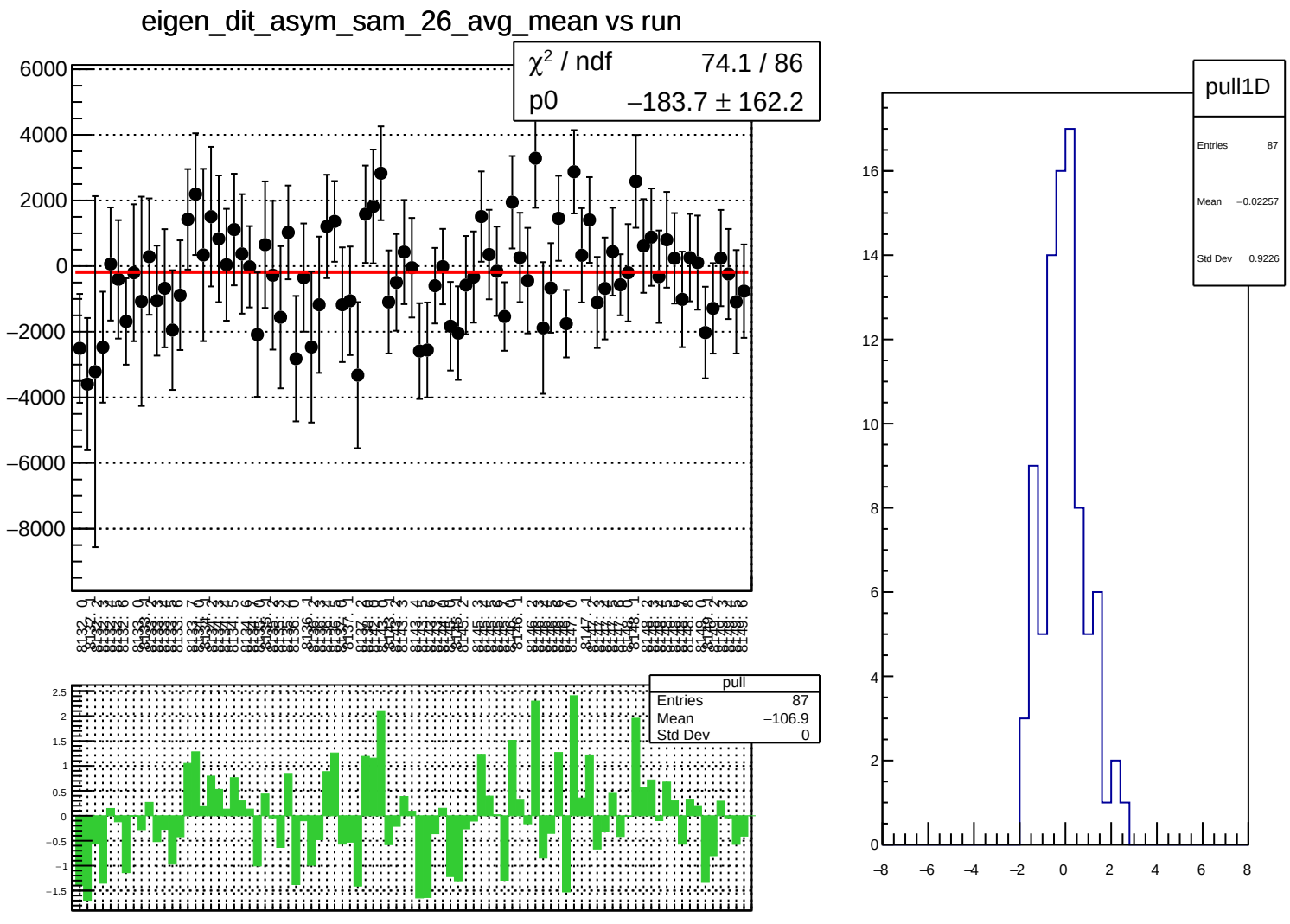

pull1D
Entries 87
Mean −0.02257
Std Dev 0.9226

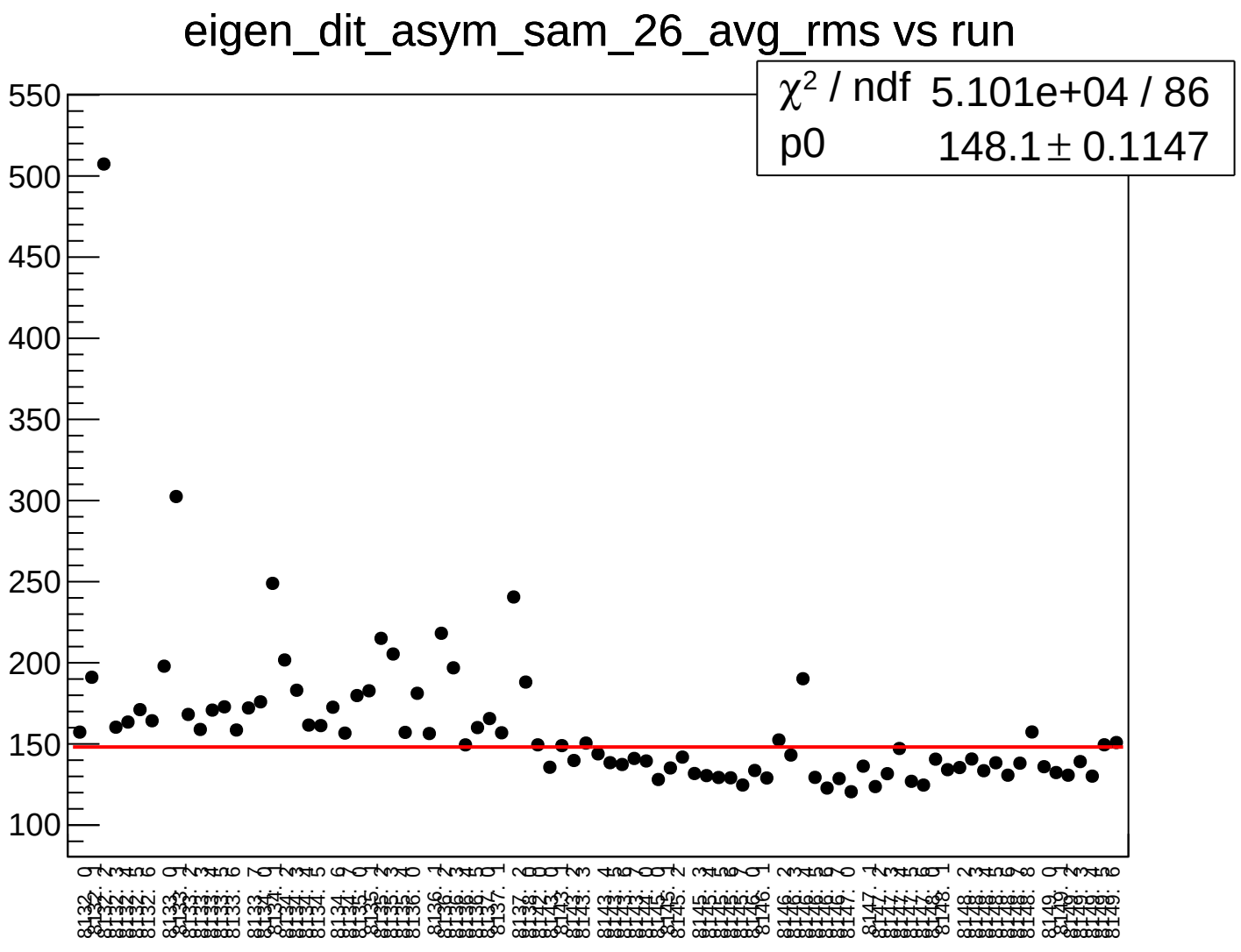

dit_asym_sam_26_avg_rms vs run
χ^2 / ndf 5.101e+04 / 86
p0 148.1 ± 0.1147
550
500
450
400
350
300
250
200
150
100

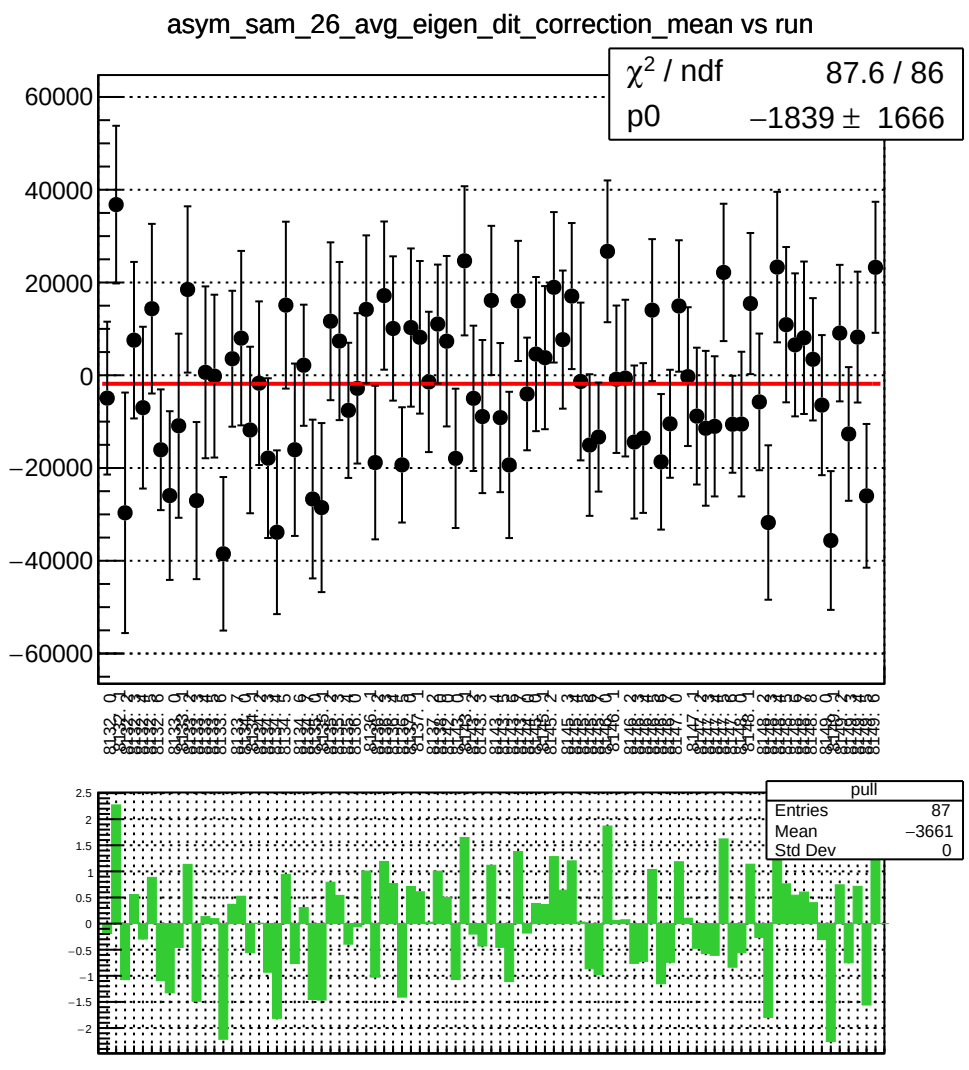

asym_sam_26_avg_dit_correction_mean vs run
χ² / ndf 87.6 / 86
p0 −1839 ± 1666
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −3662
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

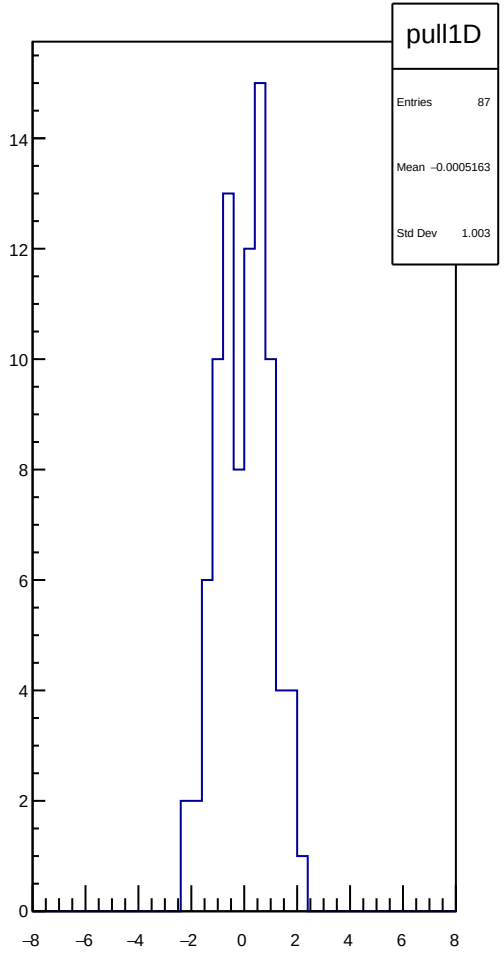

pull1D
Entries 87
Mean −0.0005162
Std Dev 1.003
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

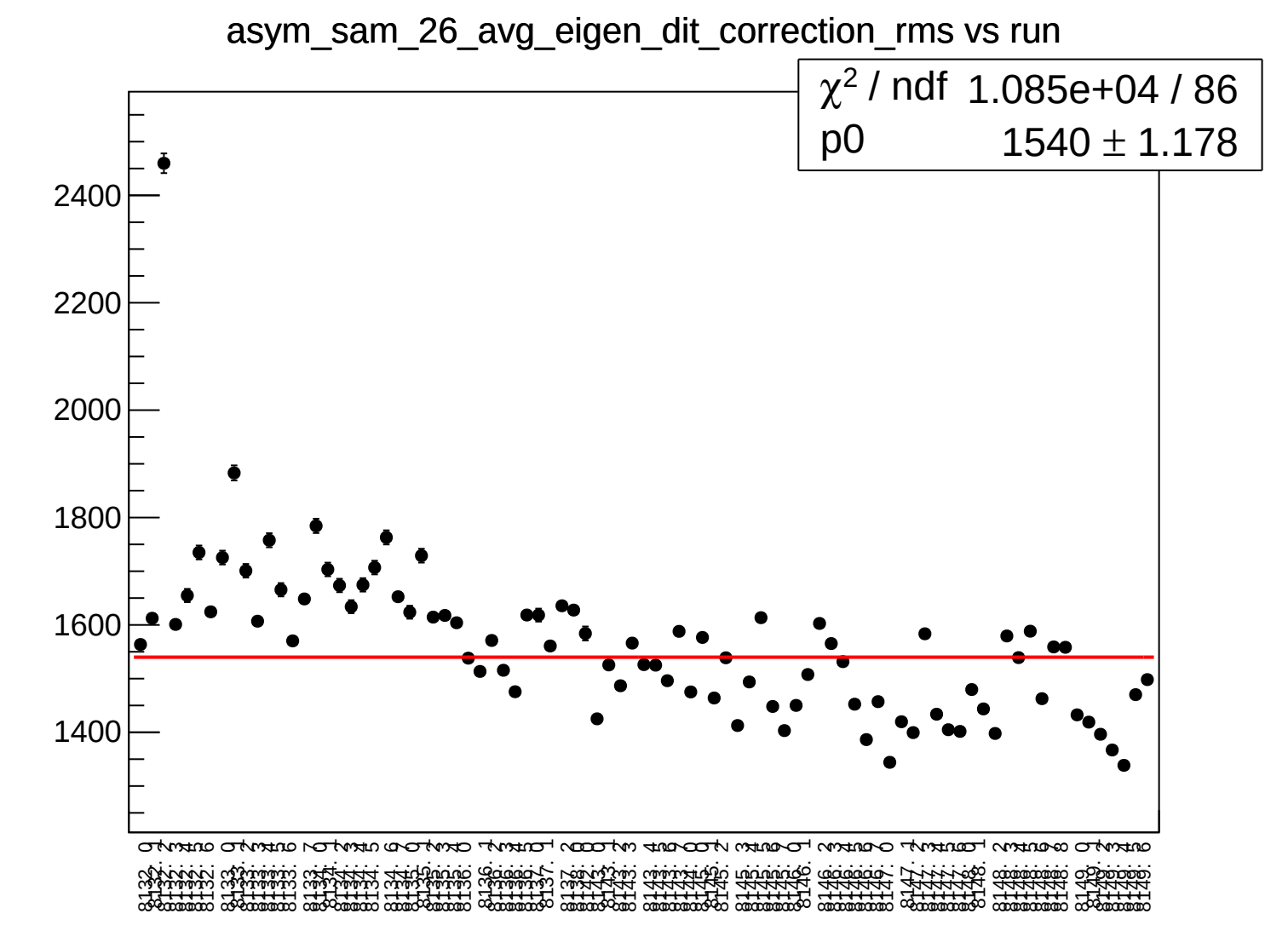

asym_sam_26_avg_dit_correction_rms vs run
χ² / ndf 1.085e+04 / 86
p0 1540 ± 1.178
2400
2200
2000
1800
1600
1400

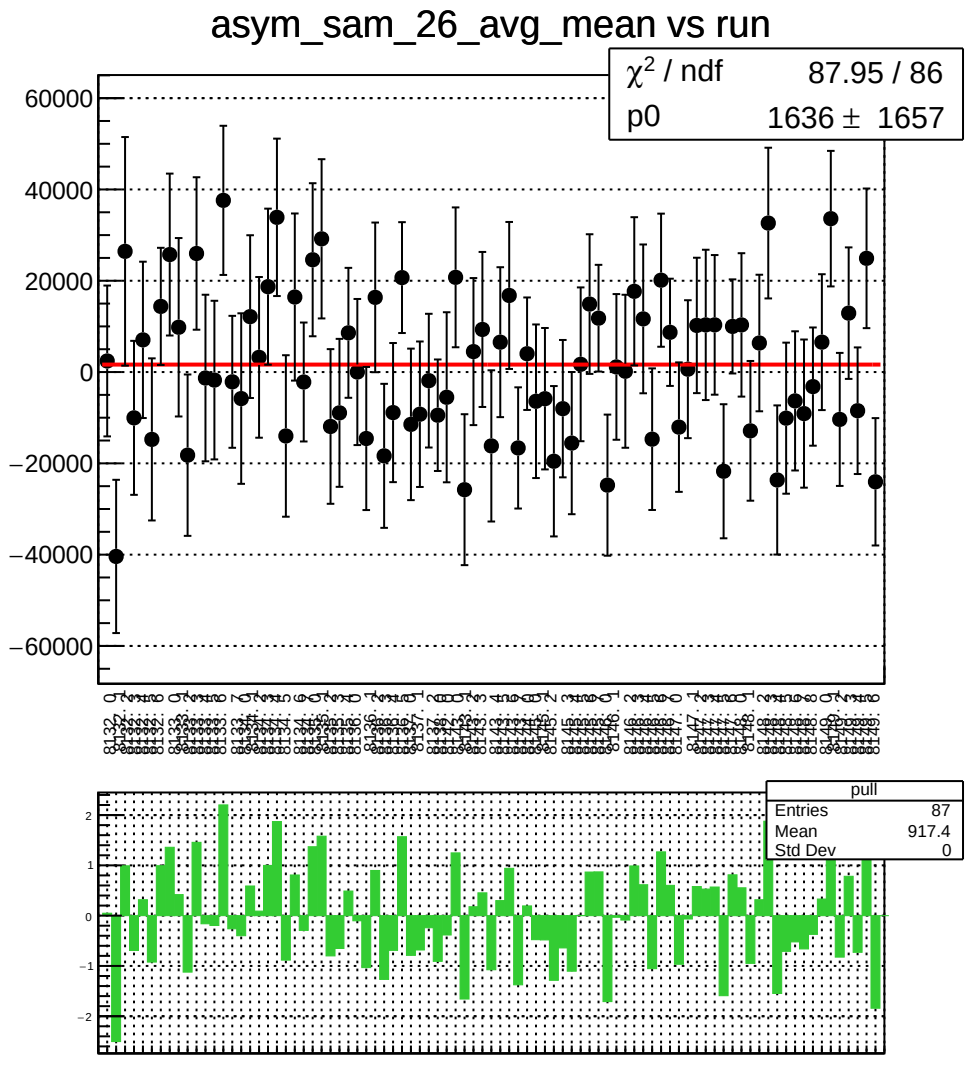

eigen_dit_asym_sam_26_avg_mean vs run
χ² / ndf 74.1 / 86
p0 −183.7 ± 162.2
pull
Entries 87
Mean −106.9
Std Dev 0
pull1D
Entries 87
Mean −0.02257
Std Dev 0.9226

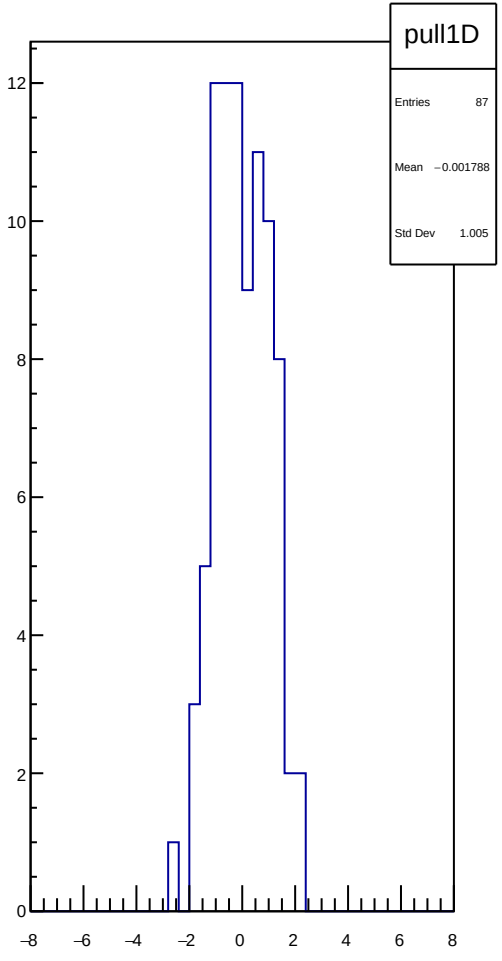

eigen_dit_asym_sam_26_avg_rms vs run
χ² / ndf 5.101e+04 / 86
p0 148.1 ± 0.1147
550
500
450
400
350
300
250
200
150
100

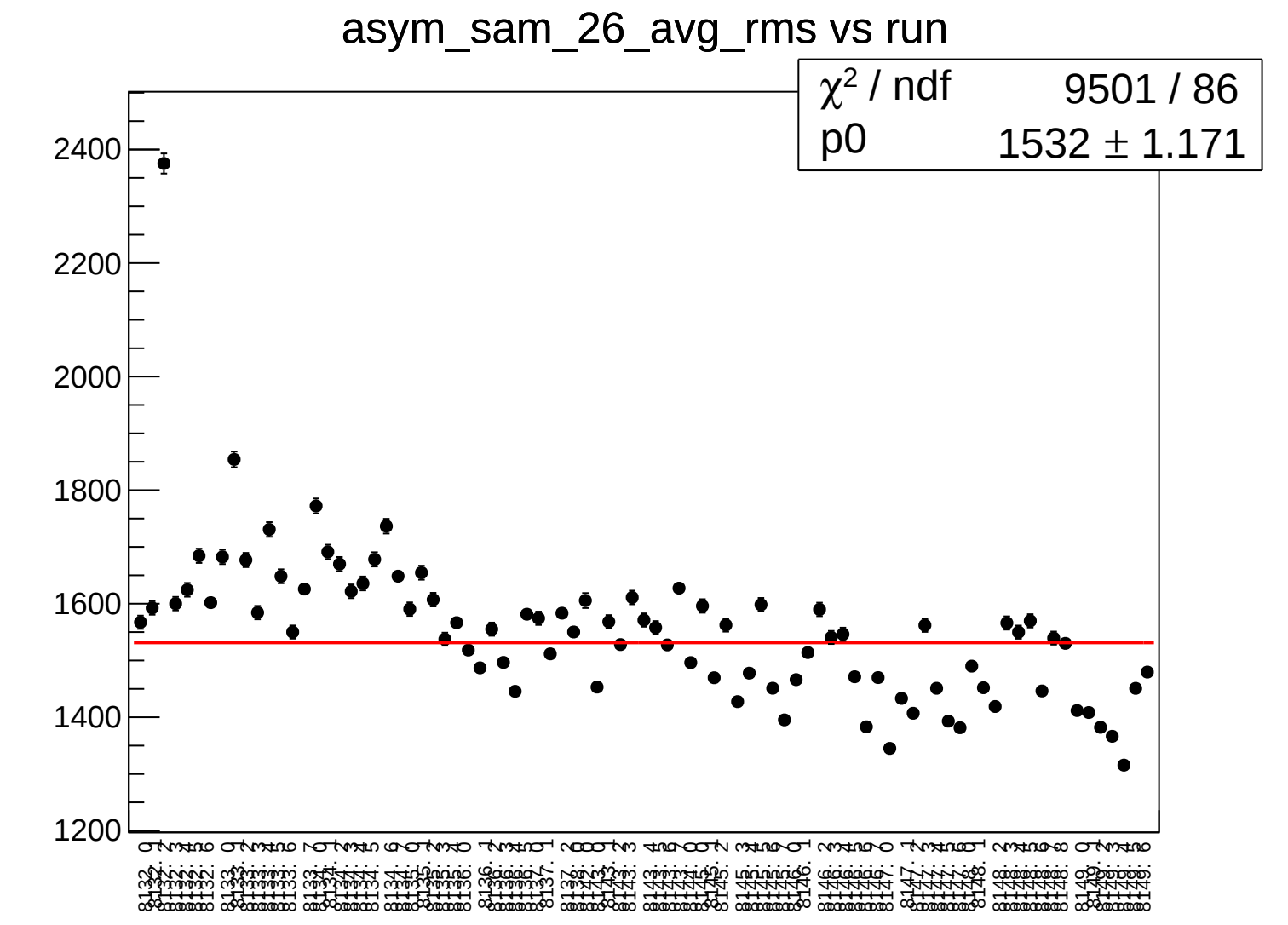

asym_sam_26_avg_eigen_dit_correction_mean vs run
χ² / ndf 87.6 / 86
p0 −1839 ± 1666
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −3661
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

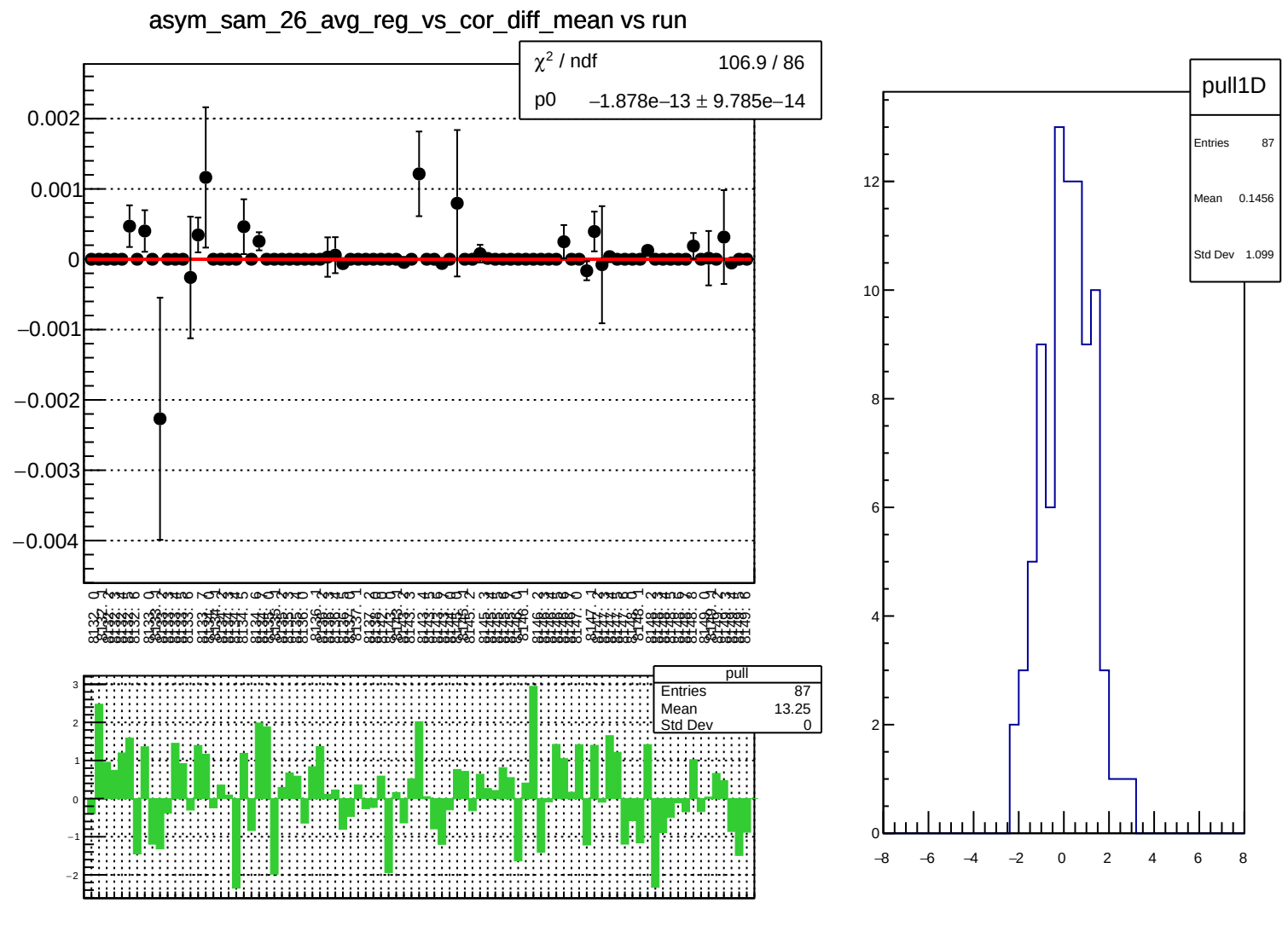

pull1D
Entries 87
Mean −0.0005163
Std Dev 1.003
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

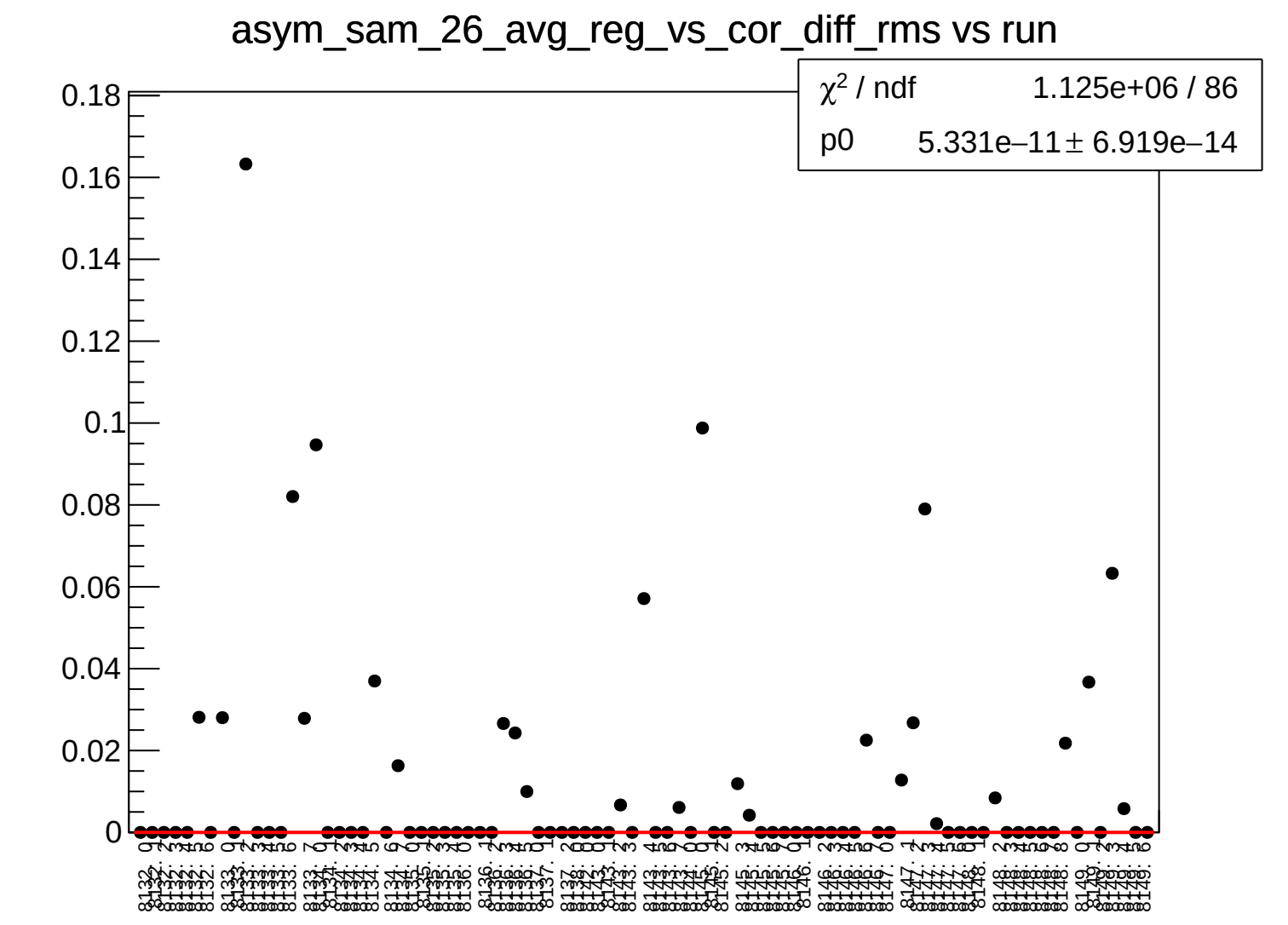

asym_sam_26_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.085e+04 / 86
p0 1540 ± 1.178
2400
2200
2000
1800
1600
1400

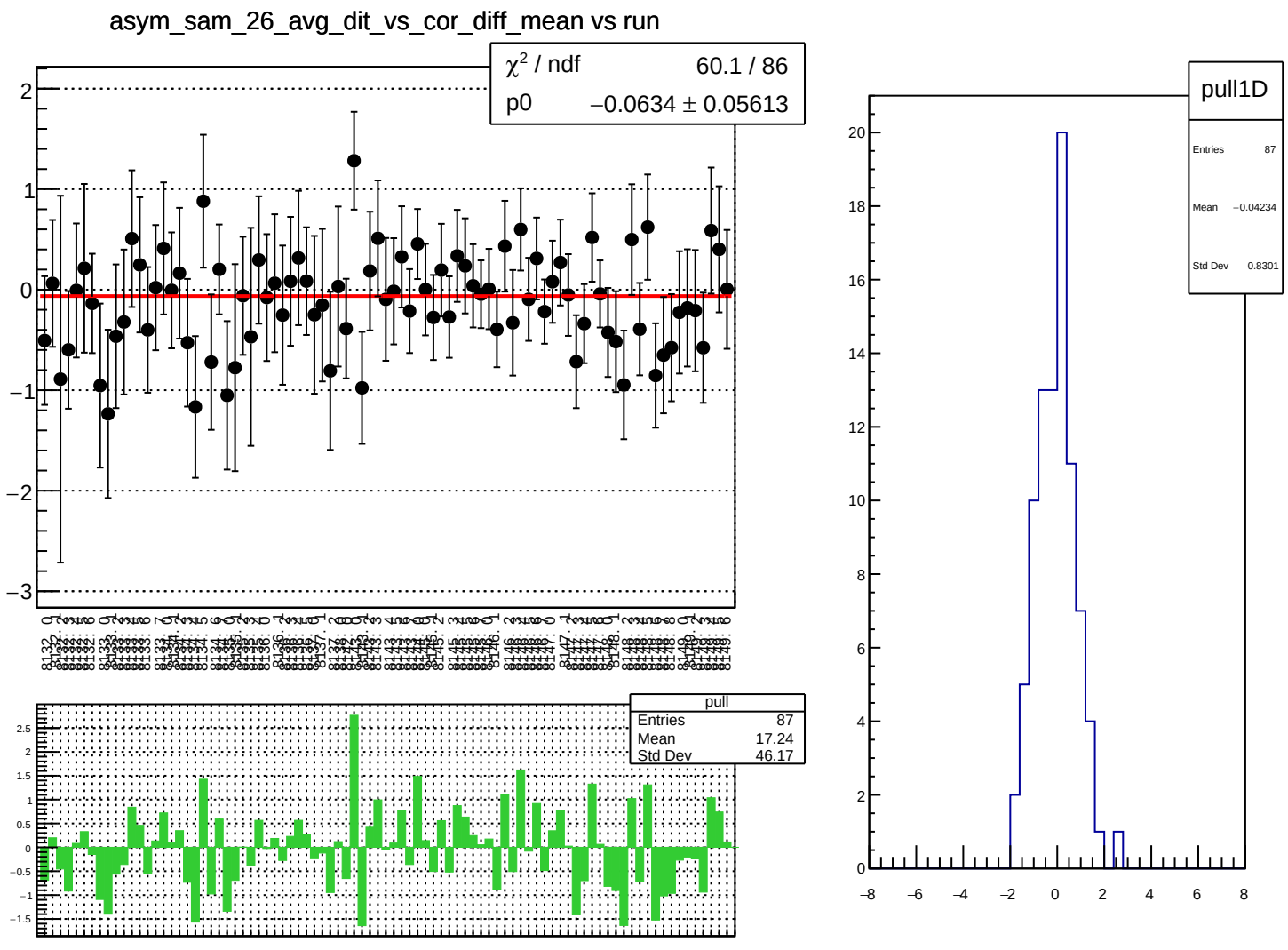

asym_sam_26_avg_mean vs run
χ² / ndf 87.95 / 86
p0 1636 ± 1657
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 917.4
Std Dev 0
2
1
0
−1
−2

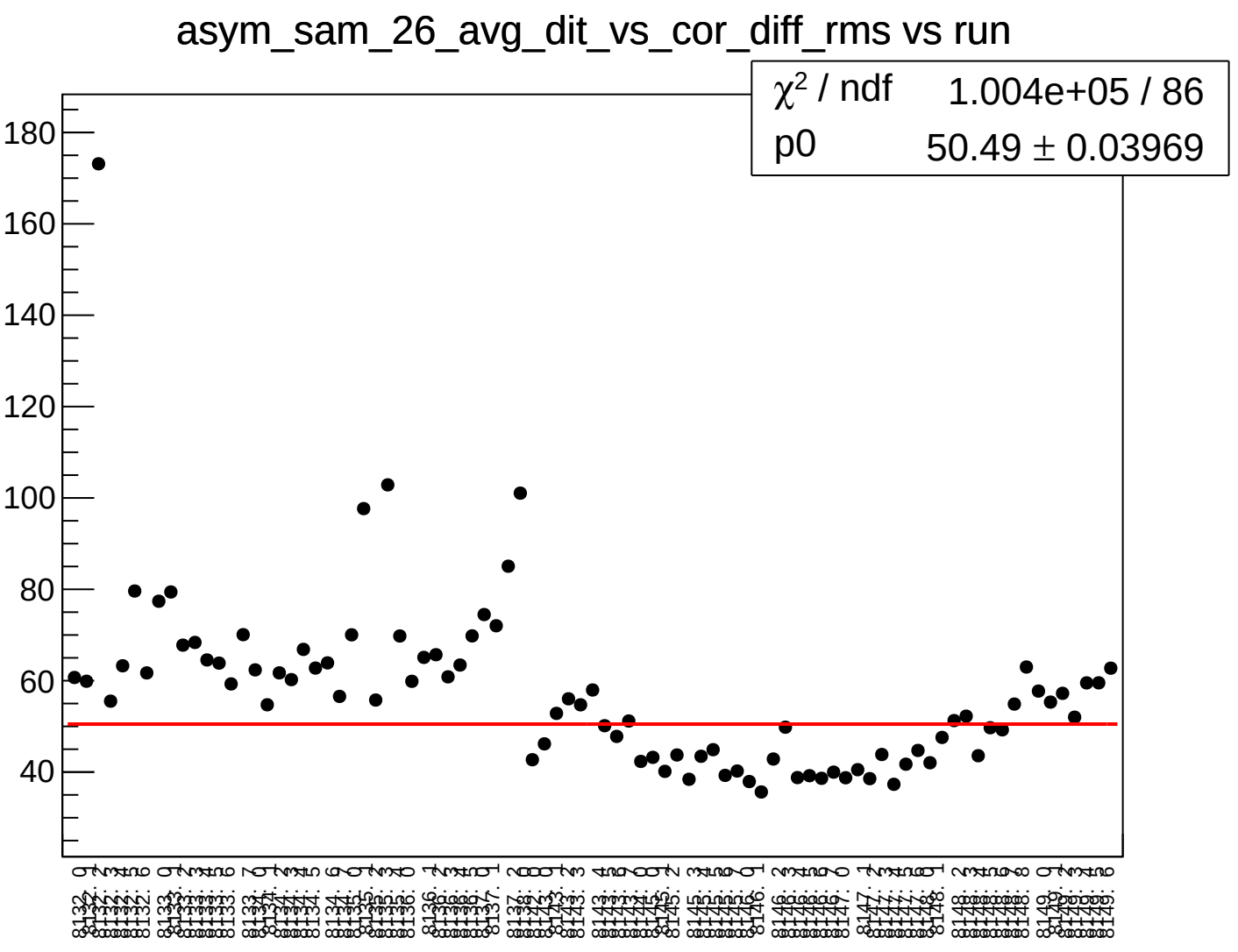

pull1D
Entries 87
Mean −0.001788
Std Dev 1.005
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

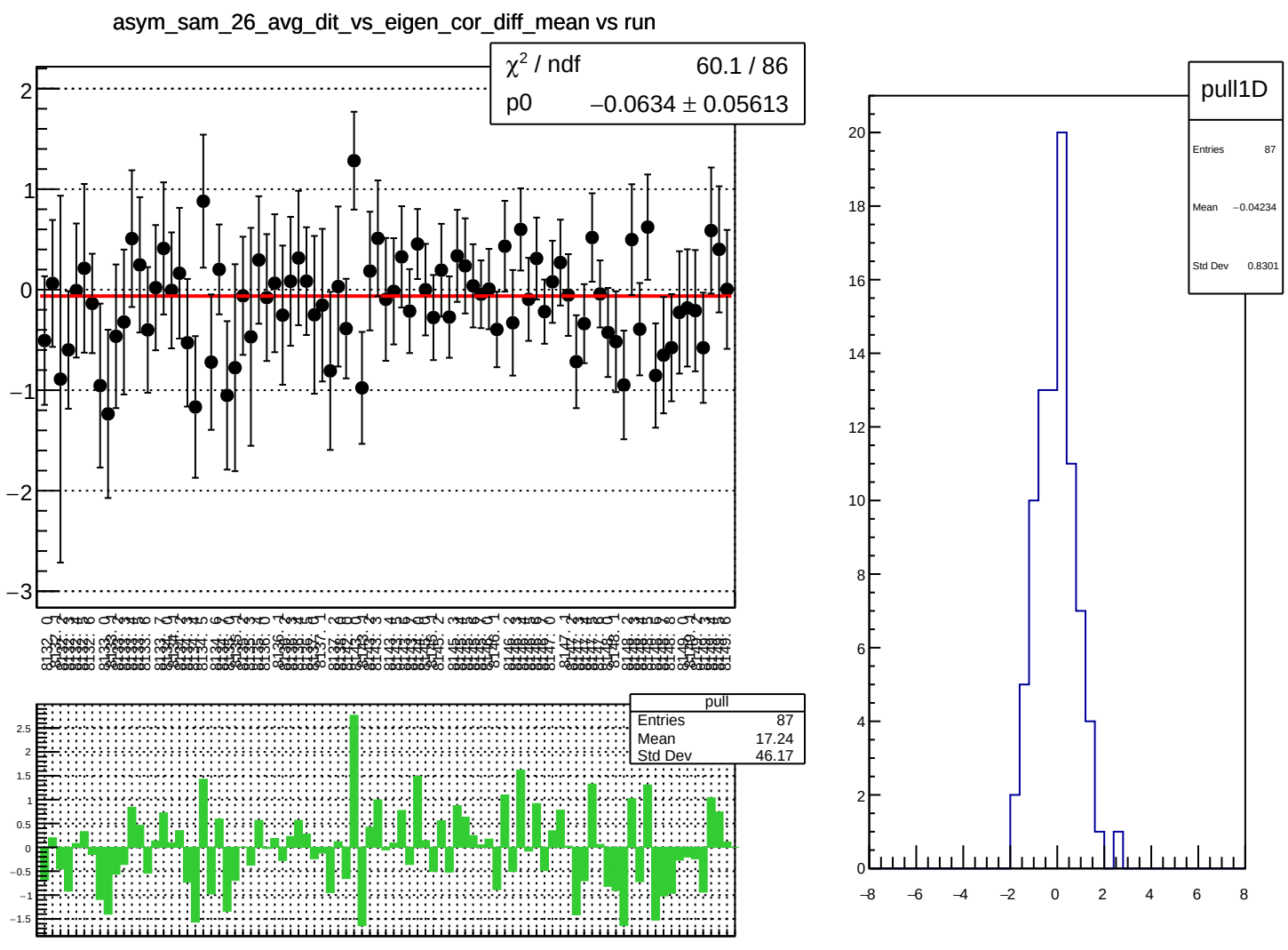

asym_sam_26_avg_rms vs run
χ² / ndf 9501 / 86
p0 1532 ± 1.171
2400
2200
2000
1800
1600
1400
1200

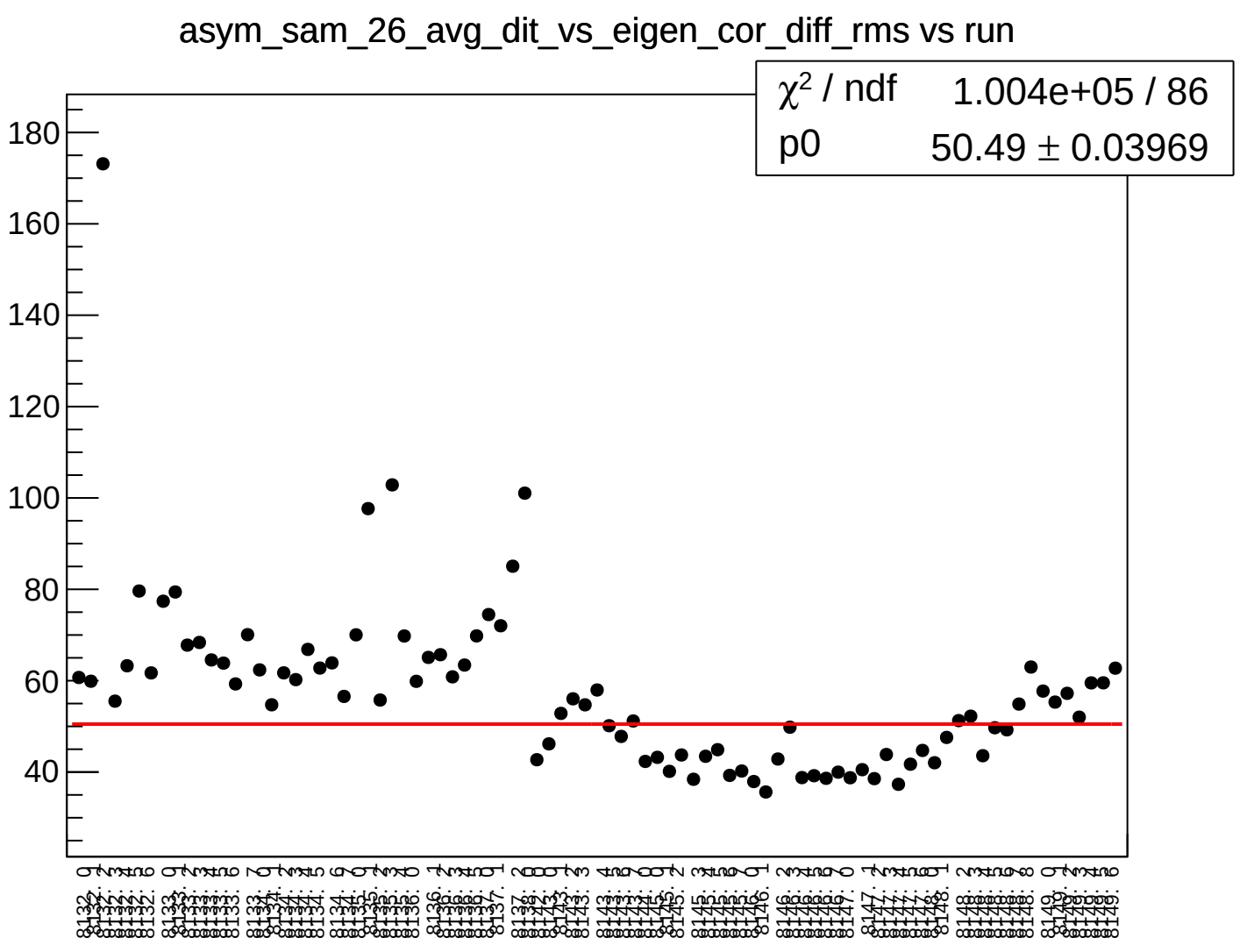

asym_sam_26_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 106.9 / 86
p0 −1.878e−13 ± 9.785e−14
0.002
0.001
0
−0.001
−0.002
−0.003
−0.004
pull
Entries 87
Mean 13.25
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.1456
Std Dev 1.099
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

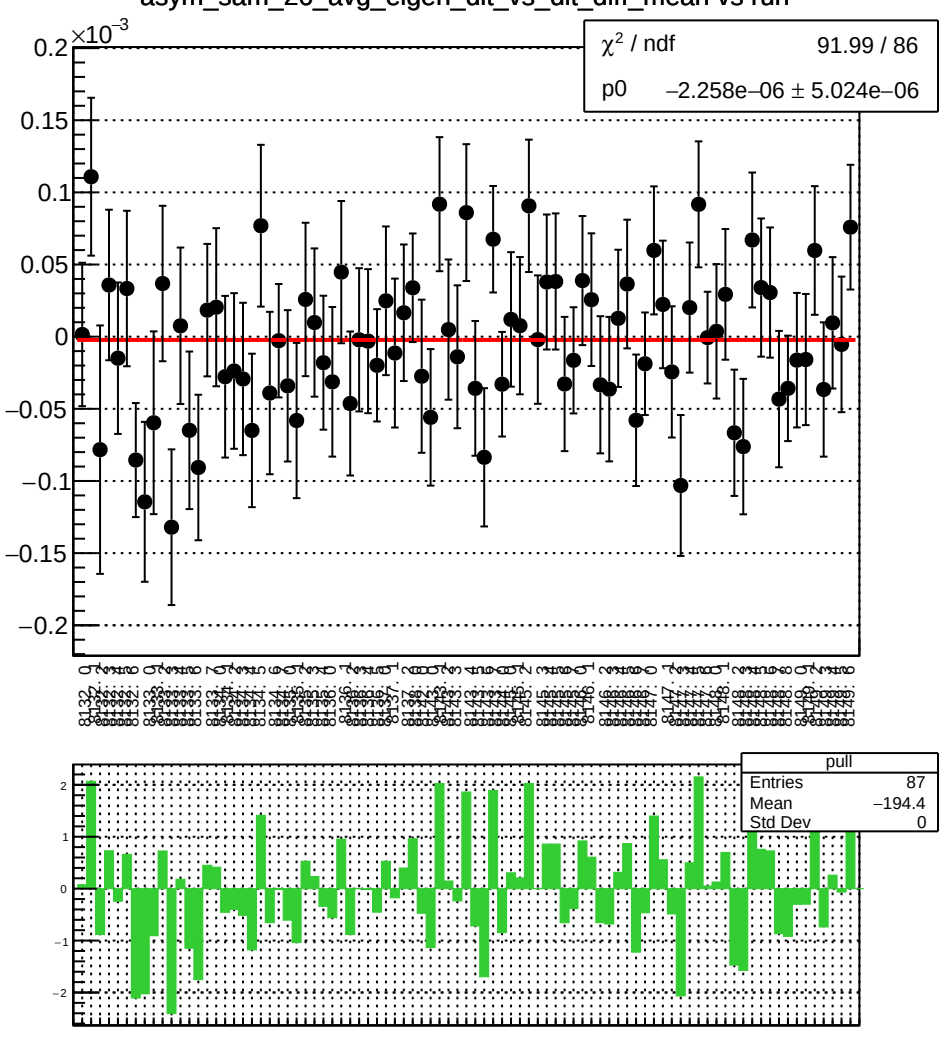

asym_sam_26_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.125e+06 / 86
p0 5.331e−11 ± 6.919e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

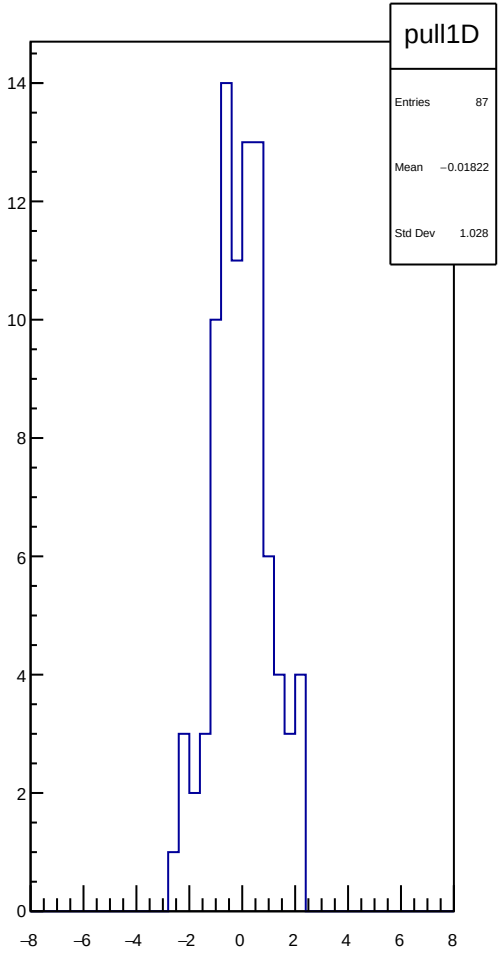

asym_sam_26_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 60.1 / 86
p0 −0.0634 ± 0.05613
pull
Entries 87
Mean 17.24
Std Dev 46.17
pull1D
Entries 87
Mean −0.04234
Std Dev 0.8301

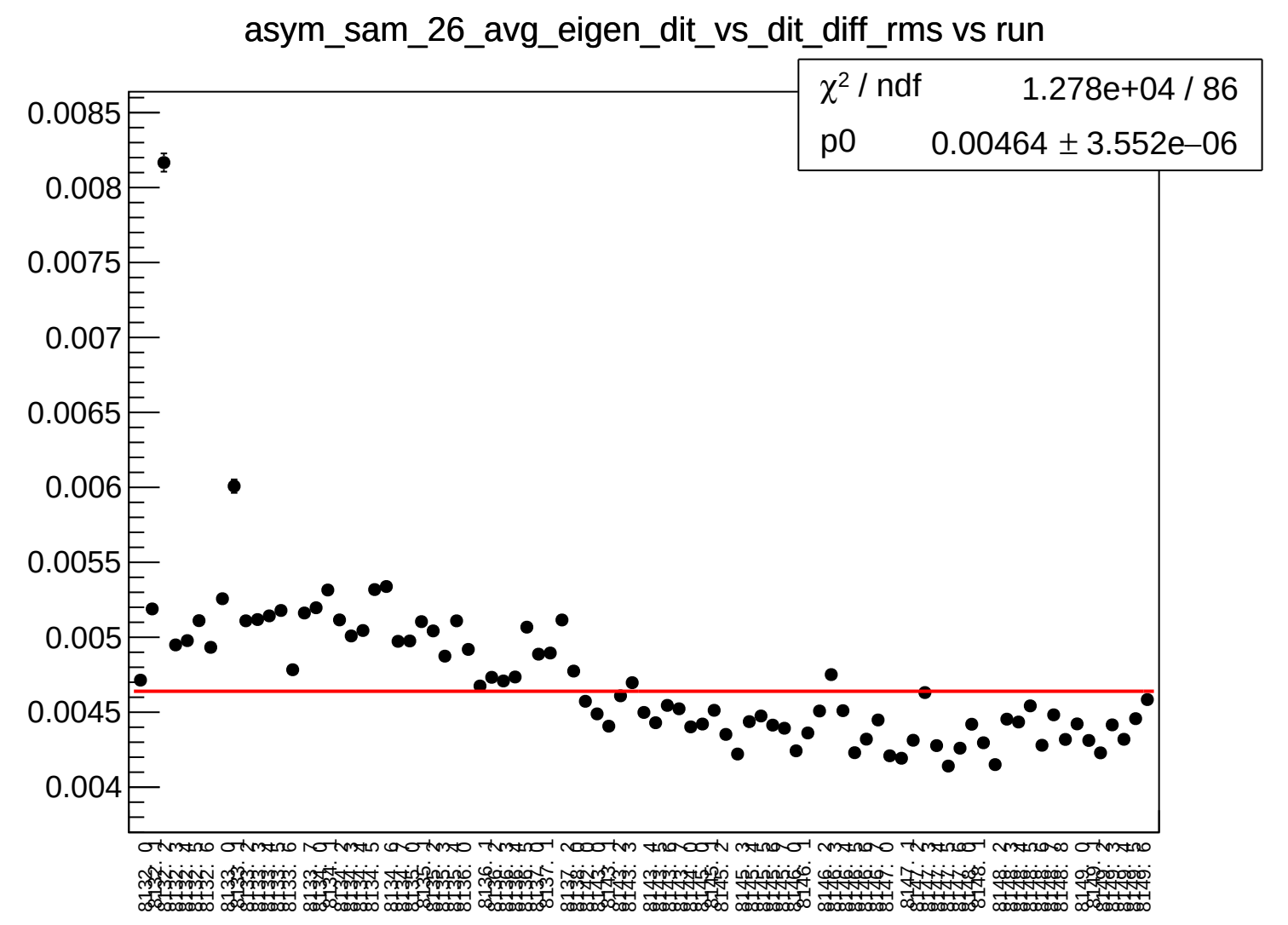

asym_sam_26_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.004e+05 / 86
p0 50.49 ± 0.03969
180
160
140
120
100
80
60
40

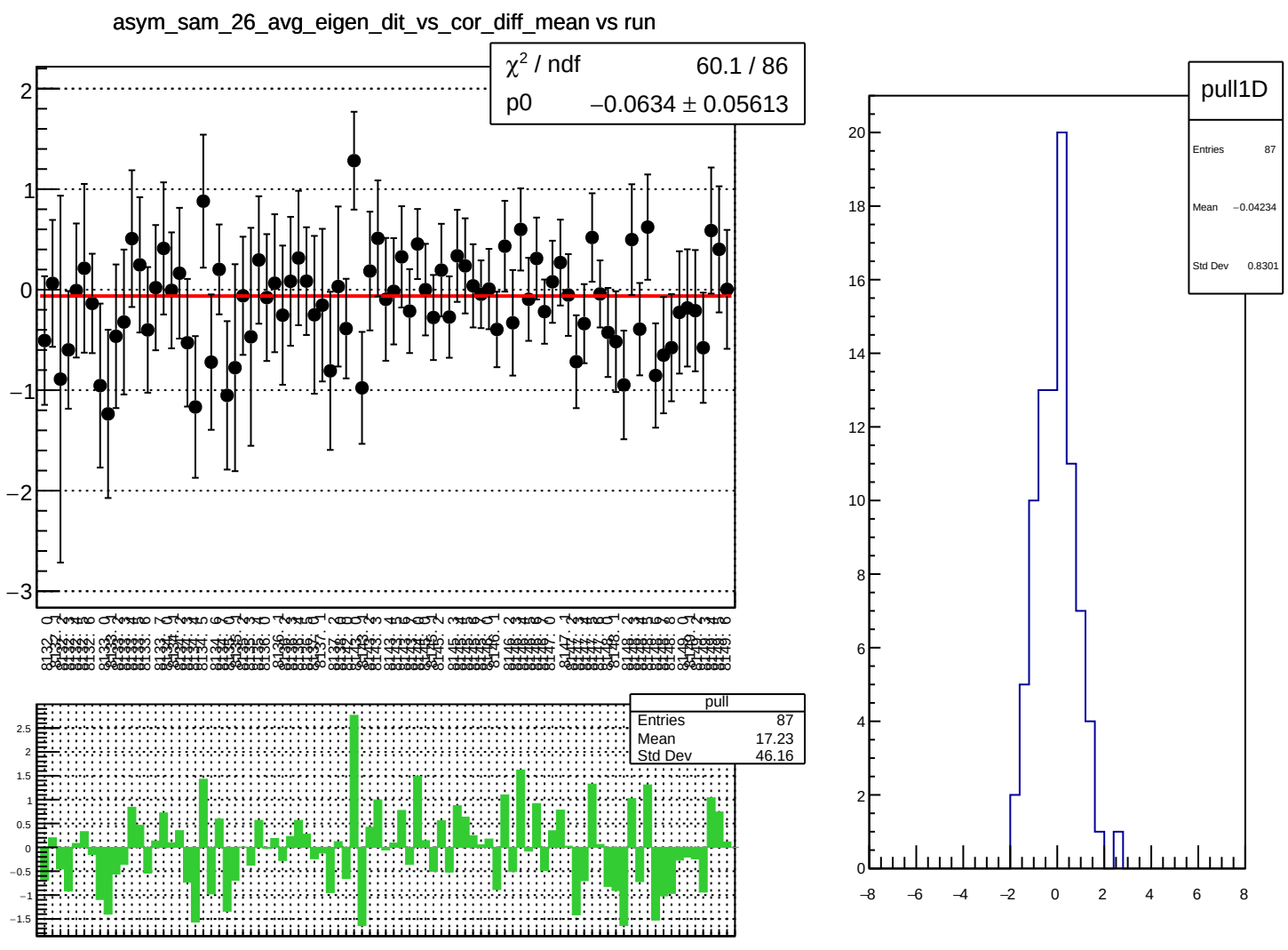

asym_sam_26_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 60.1 / 86
p0 −0.0634 ± 0.05613
pull
Entries 87
Mean 17.24
Std Dev 46.17
pull1D
Entries 87
Mean −0.04234
Std Dev 0.8301

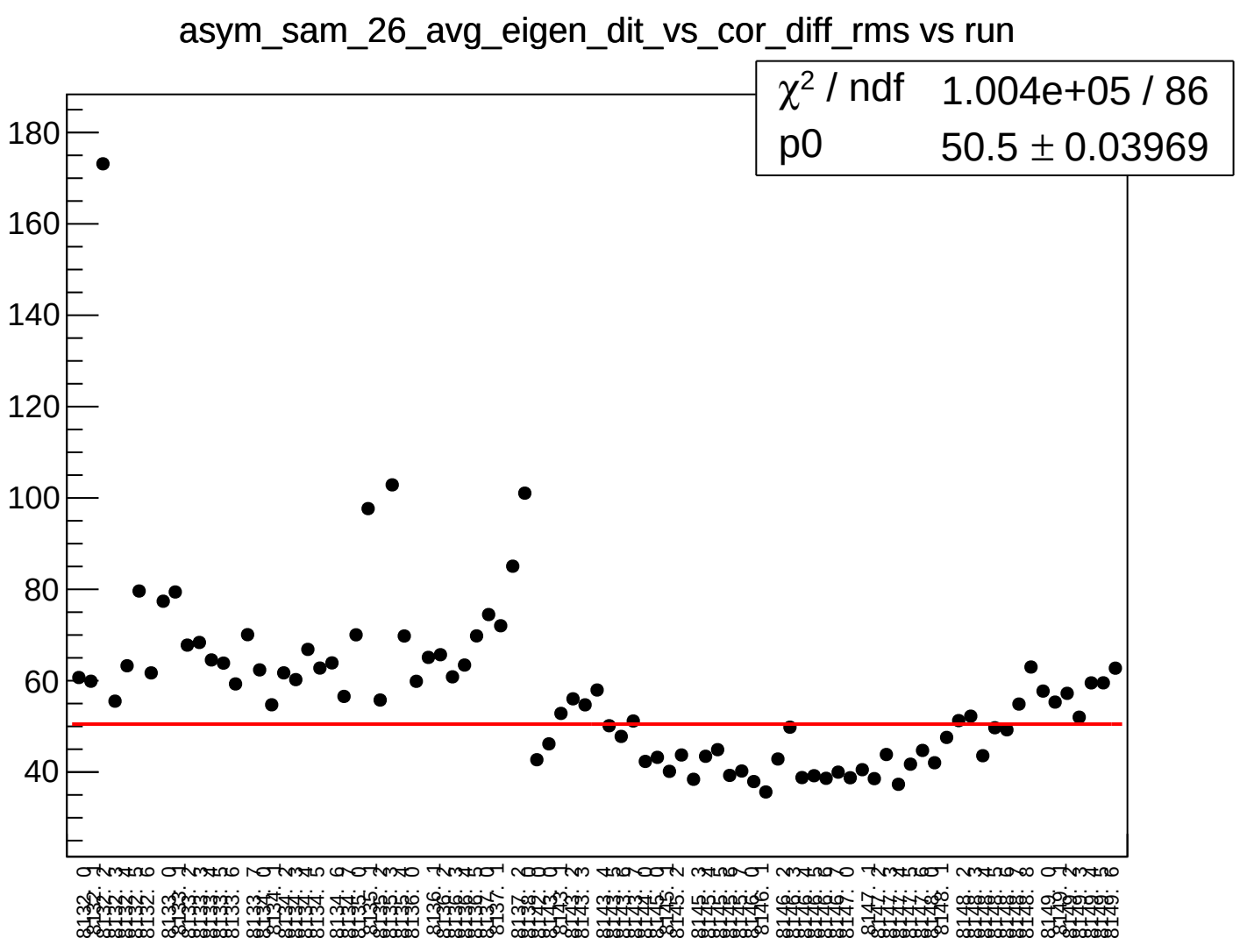

asym_sam_26_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.004e+05 / 86
p0 50.49 ± 0.03969
180
160
140
120
100
80
60
40

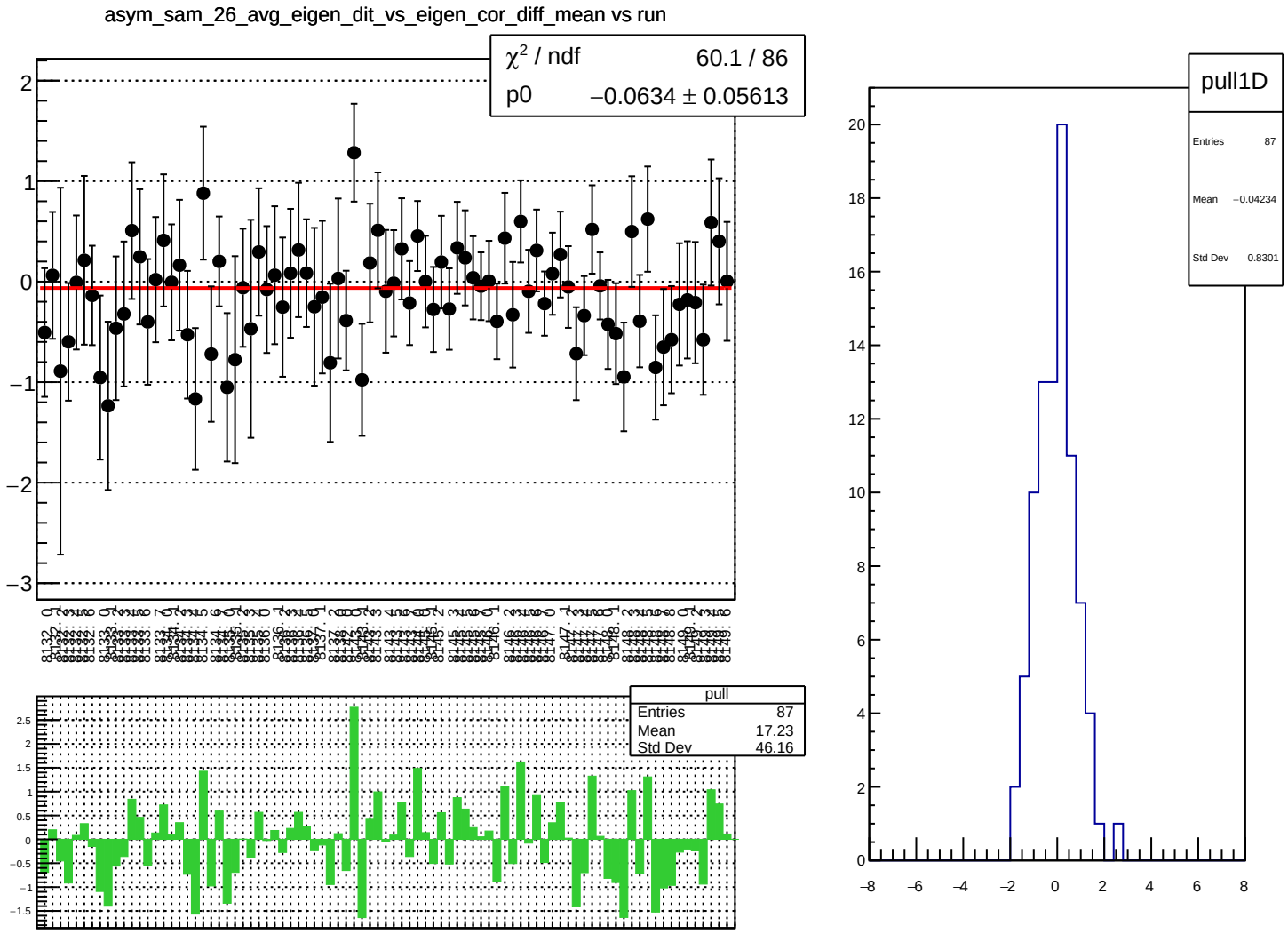

asym_sam_26_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.99 / 86
p0 −2.258e−06 ± 5.024e−06
pull
Entries 87
Mean −194.4
Std Dev 0

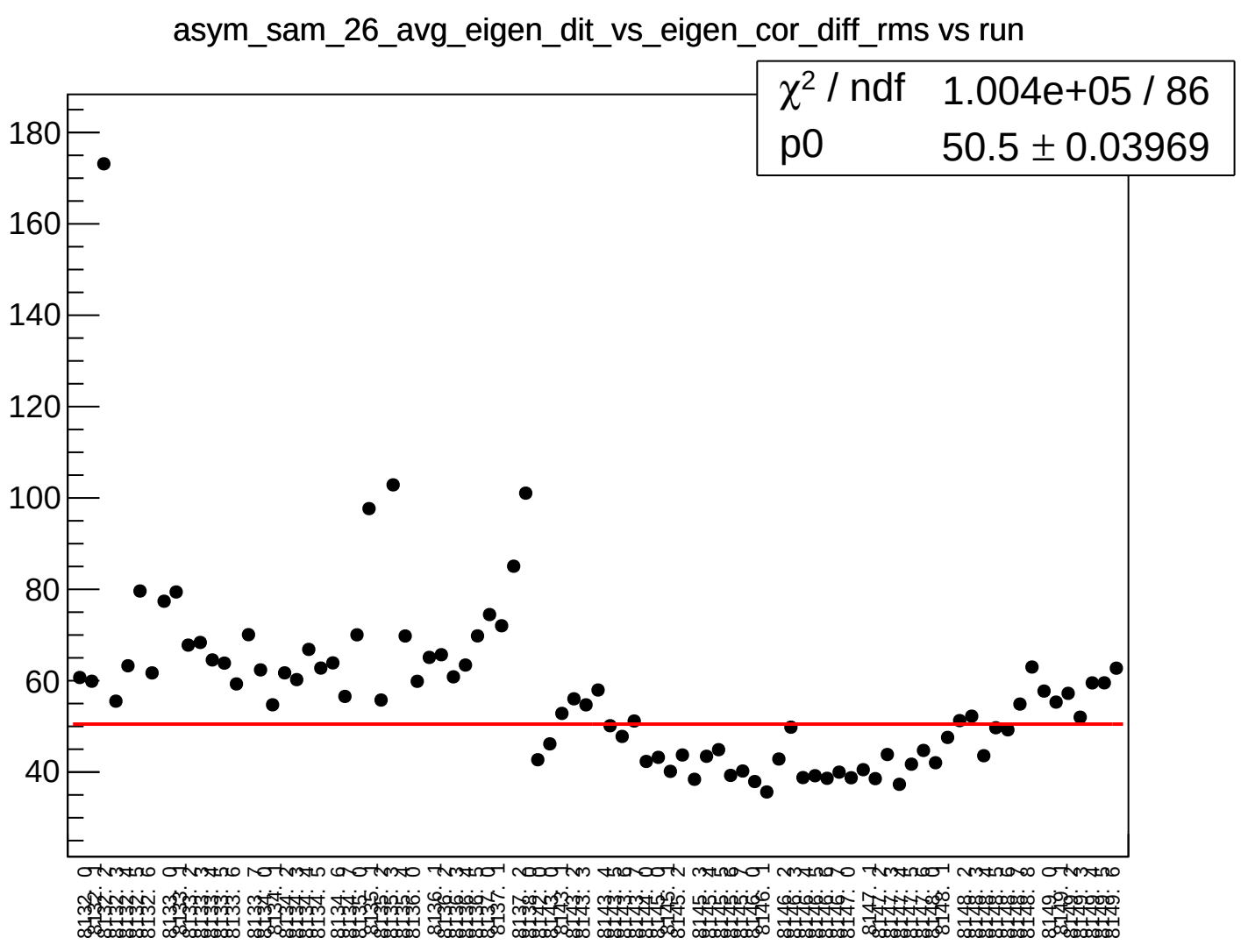

pull1D
Entries 87
Mean −0.01822
Std Dev 1.028

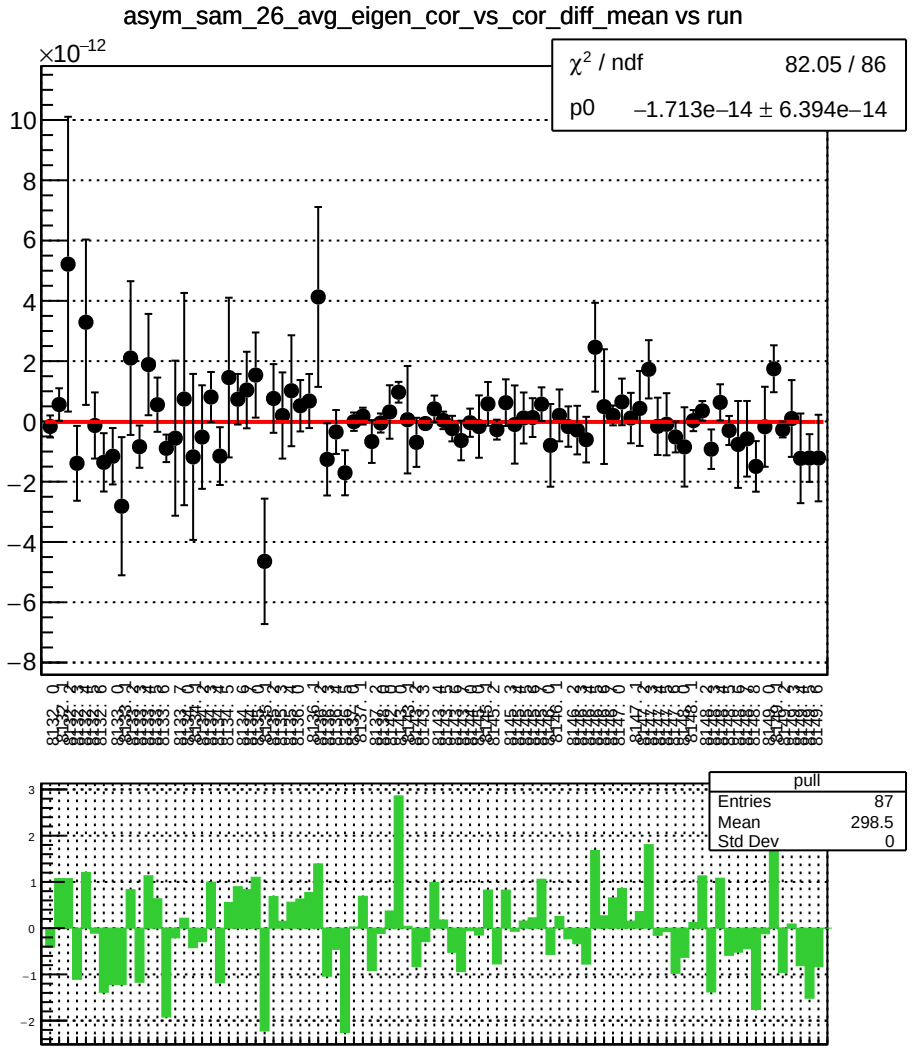

asym_sam_26_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.278e+04 / 86
p0 0.00464 ± 3.552e–06
0.0085
0.008
0.0075
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004

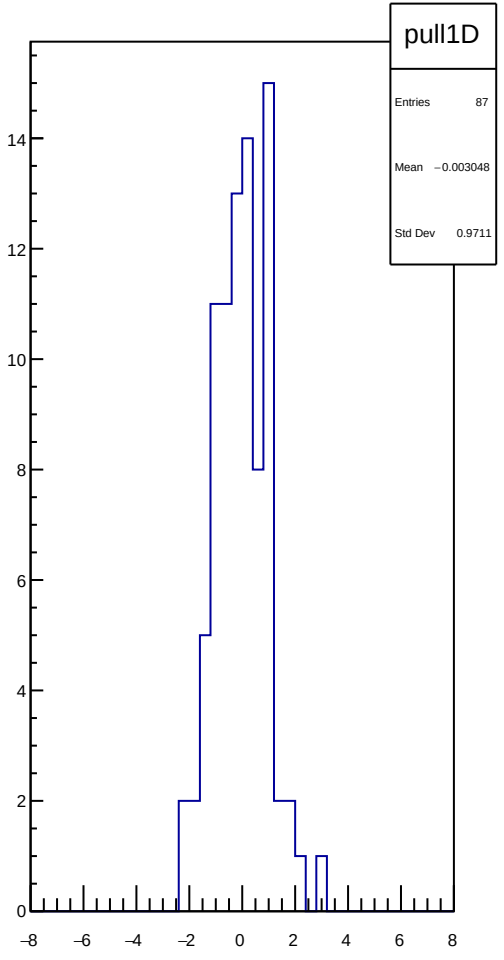

asym_sam_26_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 60.1 / 86
p0 −0.0634 ± 0.05613
pull
Entries 87
Mean 17.23
Std Dev 46.16
pull1D
Entries 87
Mean −0.04234
Std Dev 0.8301

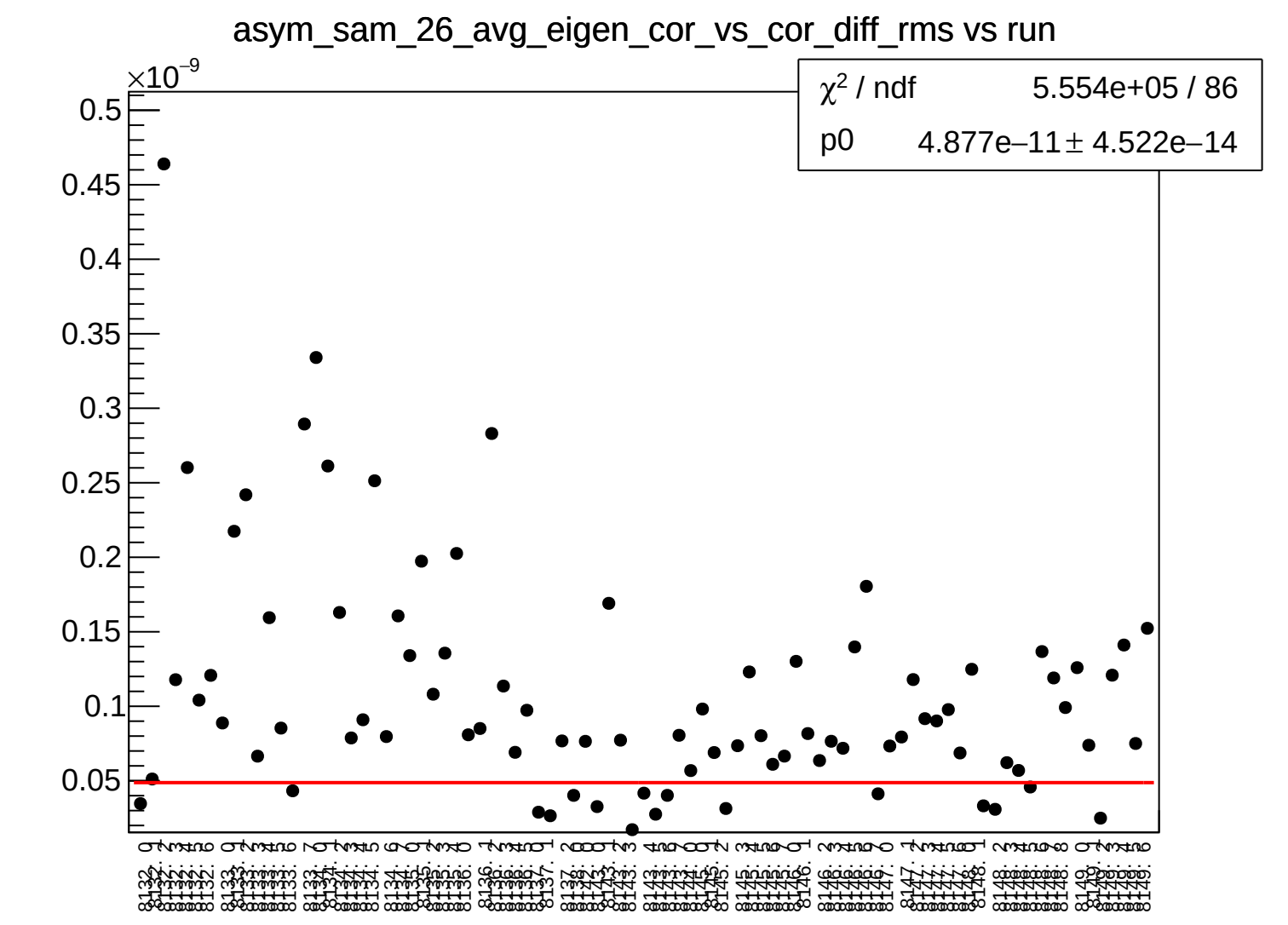

asym_sam_26_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.004e+05 / 86
p0 50.5 ± 0.03969
180
160
140
120
100
80
60
40

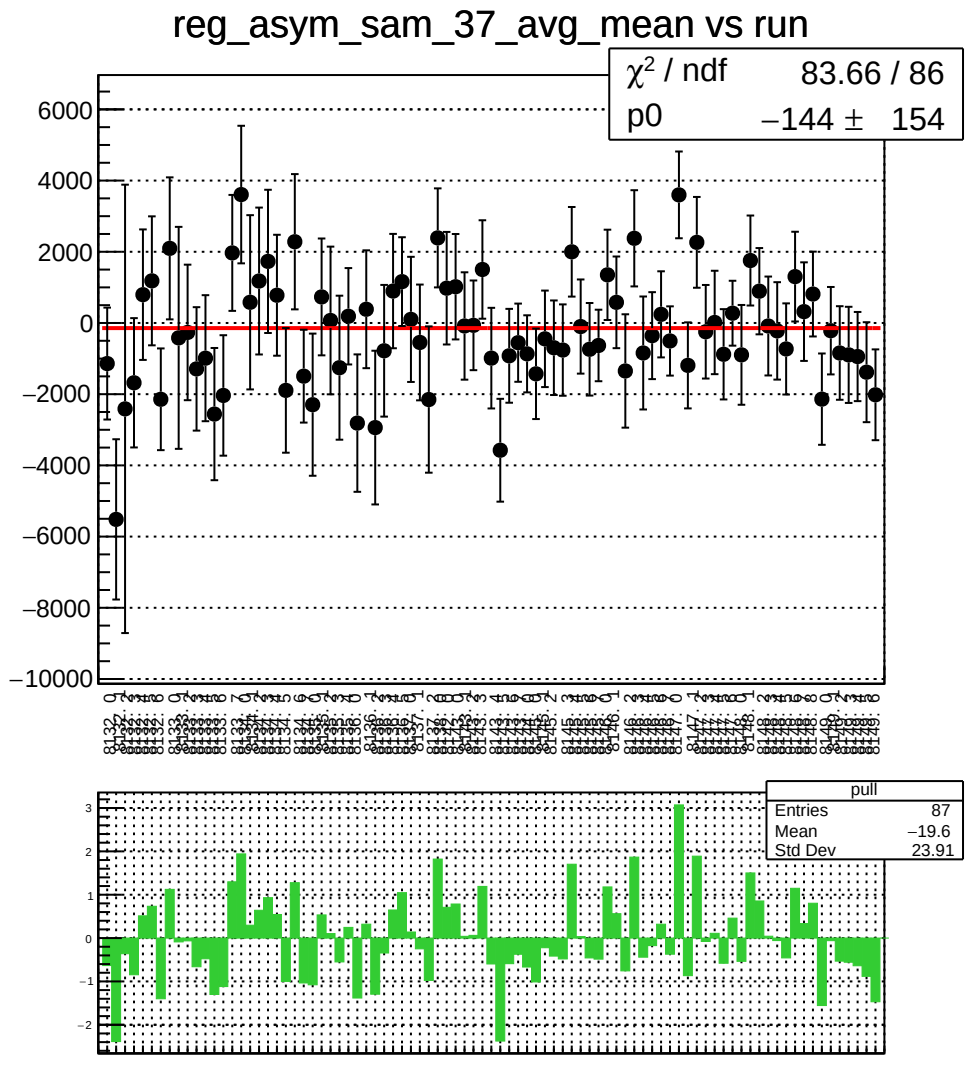

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 60.1 / 86
p0 −0.0634 ± 0.05613
pull
Entries 87
Mean 17.23
Std Dev 46.16
pull1D
Entries 87
Mean −0.04234
Std Dev 0.8301

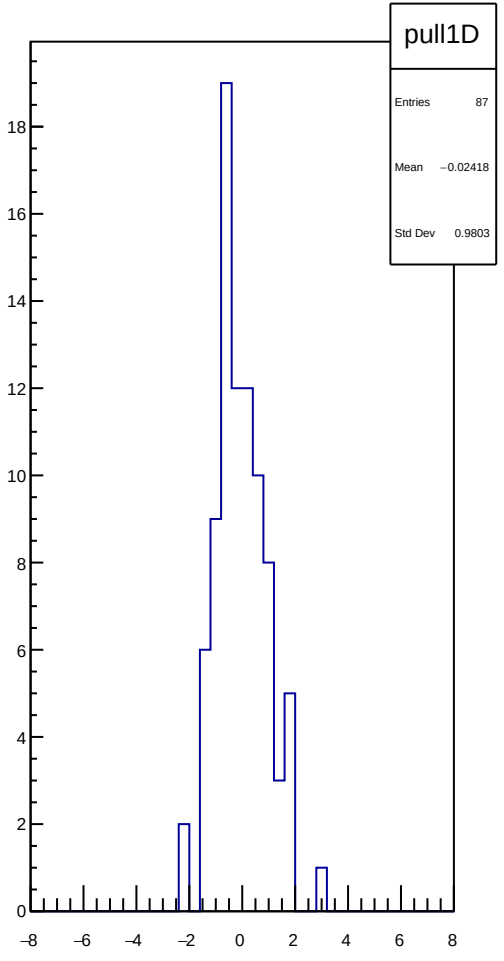

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.004e+05 / 86
p0 50.5 ± 0.03969
180
160
140
120
100
80
60
40

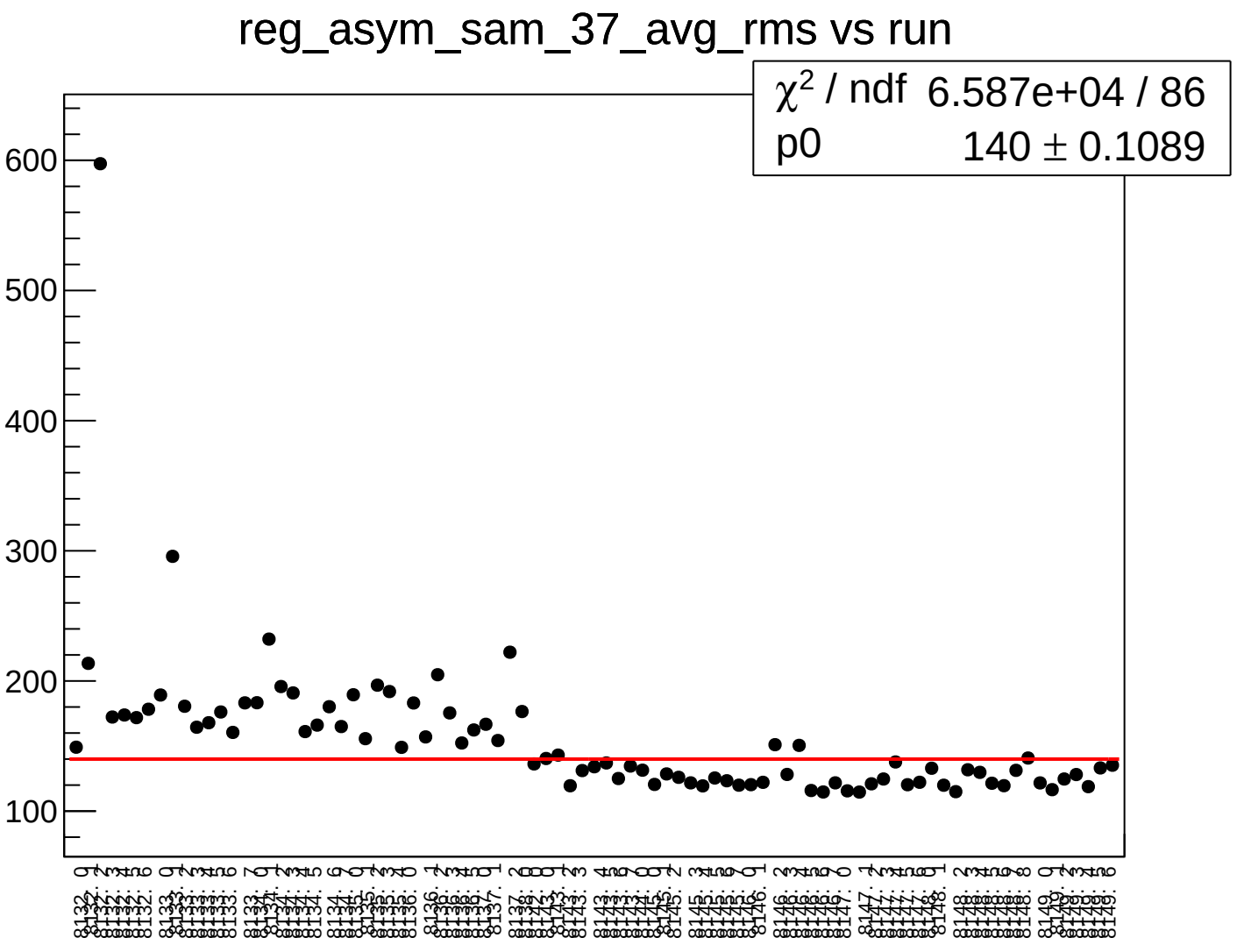

asym_sam_26_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.05 / 86
p0 −1.713e−14 ± 6.394e−14
pull
Entries 87
Mean 298.5
Std Dev 0

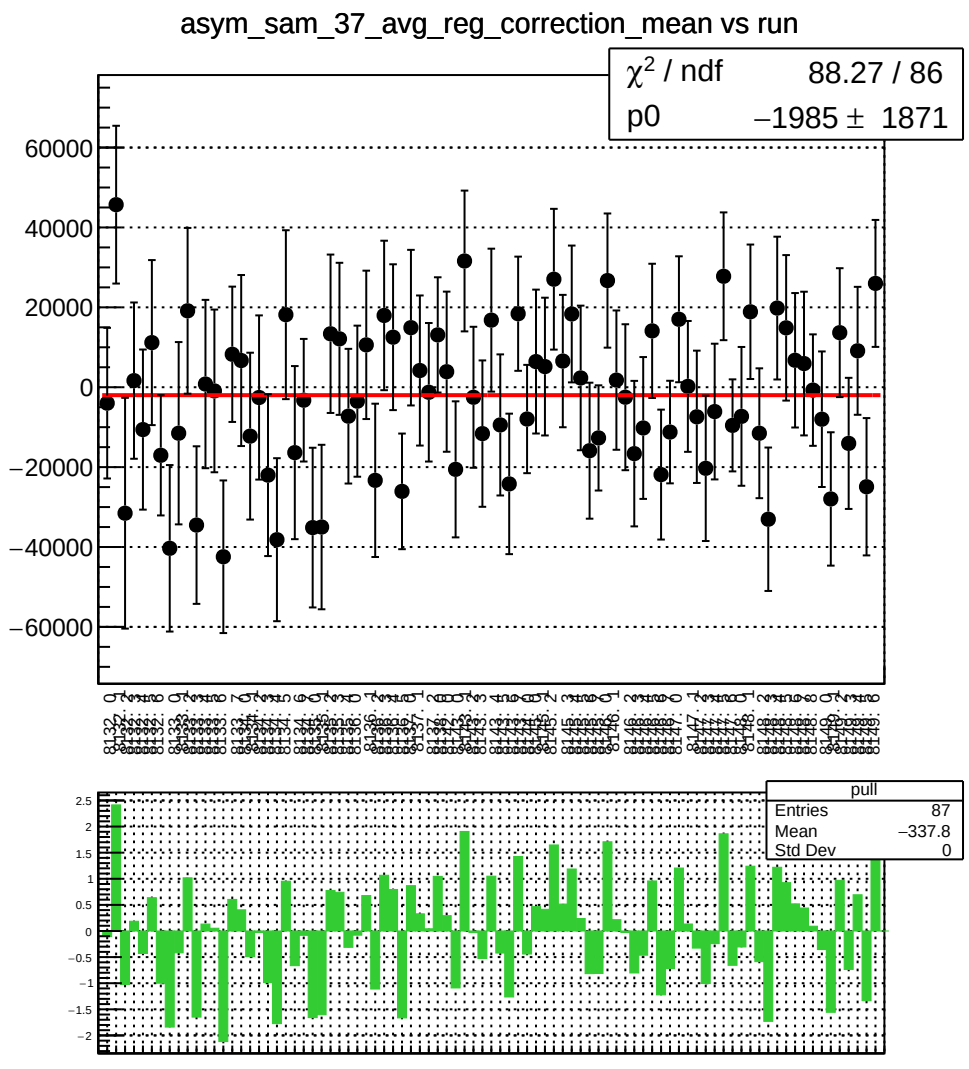

pull1D
Entries 87
Mean −0.003048
Std Dev 0.9711

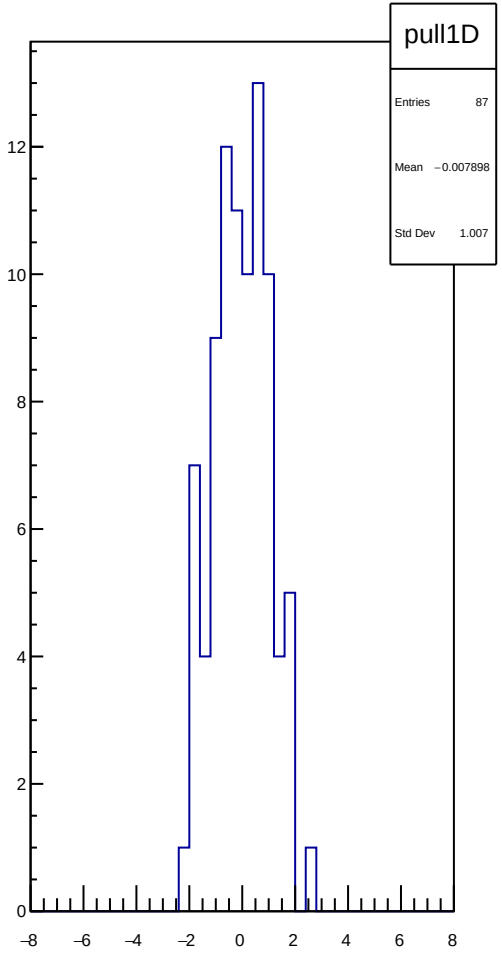

asym_sam_26_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.554e+05 / 86
p0 4.877e−11 ± 4.522e−14
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

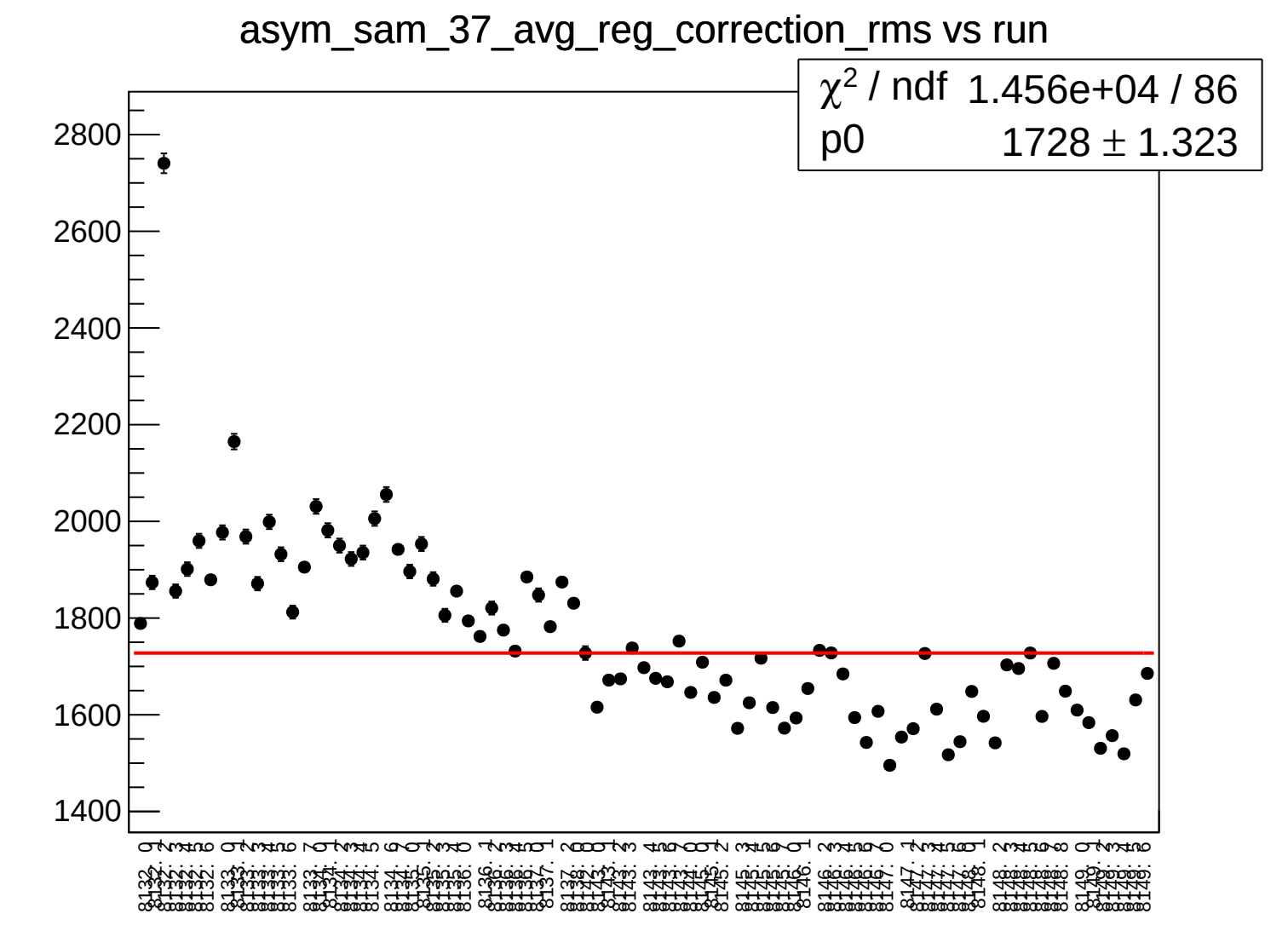

reg_asym_sam_37_avg_mean vs run
χ² / ndf 83.66 / 86
p0 −144 ± 154
pull
Entries 87
Mean −19.6
Std Dev 23.91

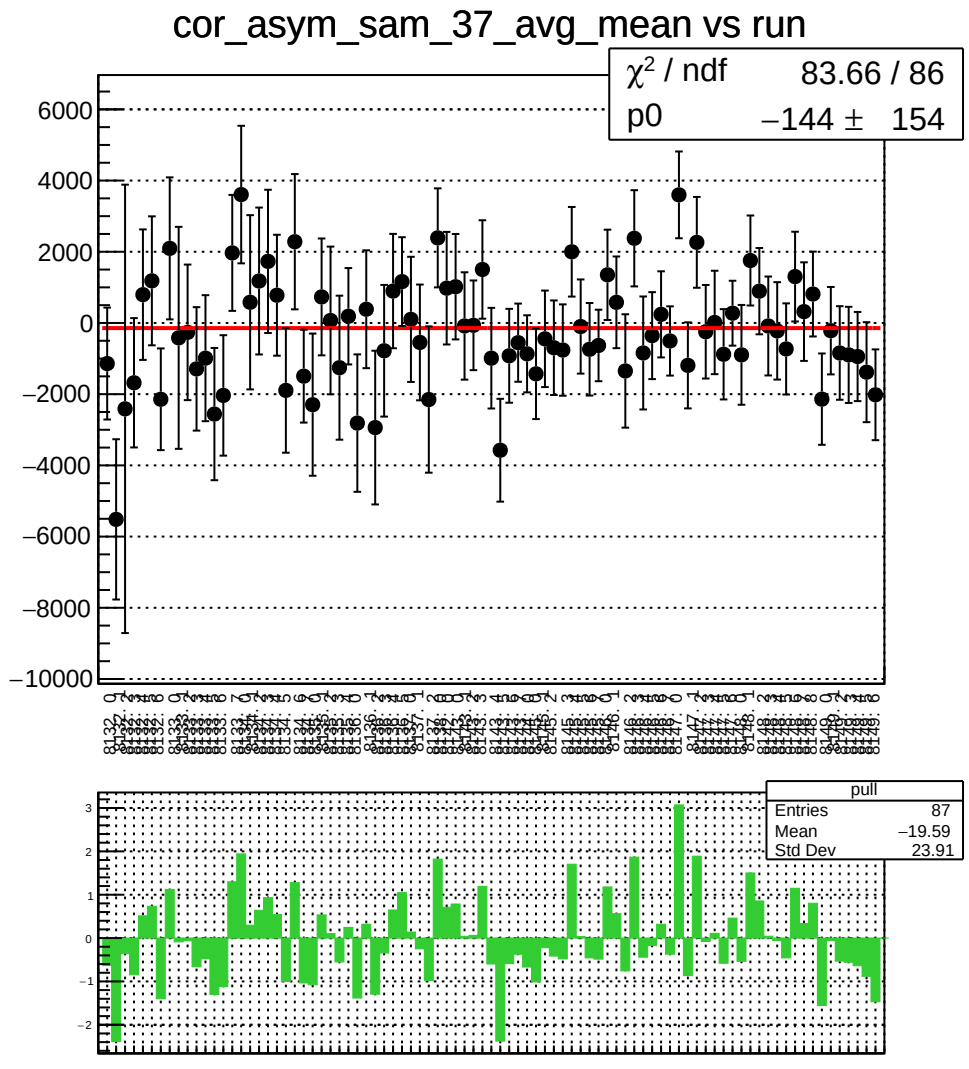

pull1D
Entries 87
Mean −0.02418
Std Dev 0.9803

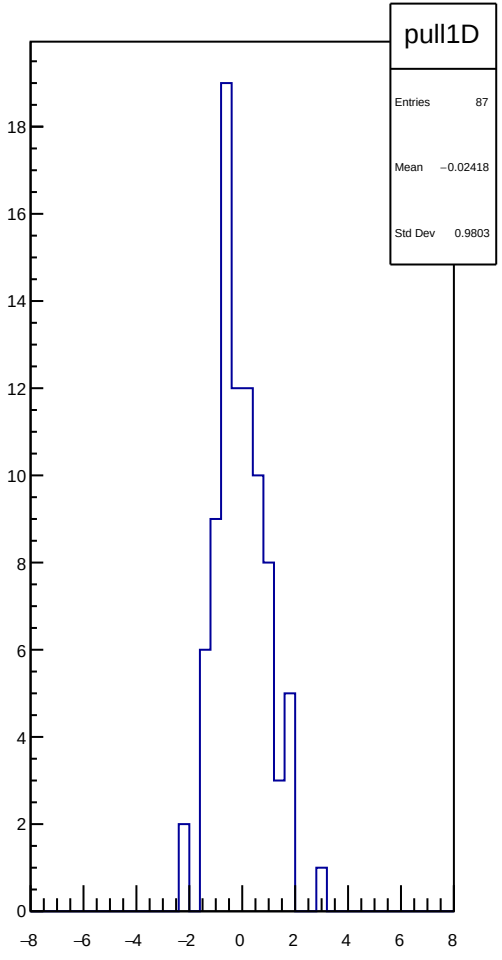

reg_asym_sam_37_avg_rms vs run
χ^2 / ndf 6.587e+04 / 86
p0 140 ± 0.1089
600
500
400
300
200
100

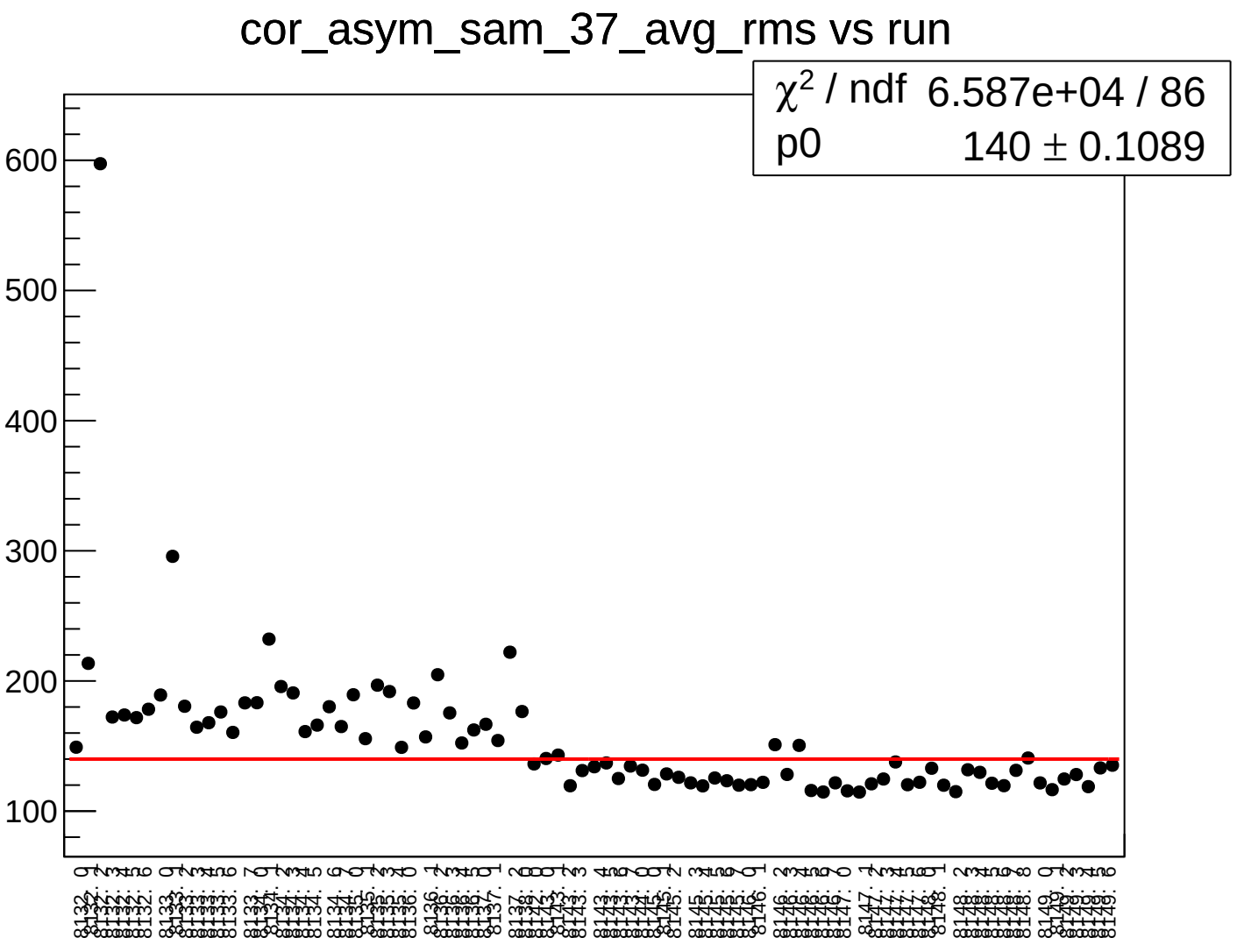

asym_sam_37_avg_reg_correction_mean vs run
χ² / ndf 88.27 / 86
p0 −1985 ± 1871
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −337.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

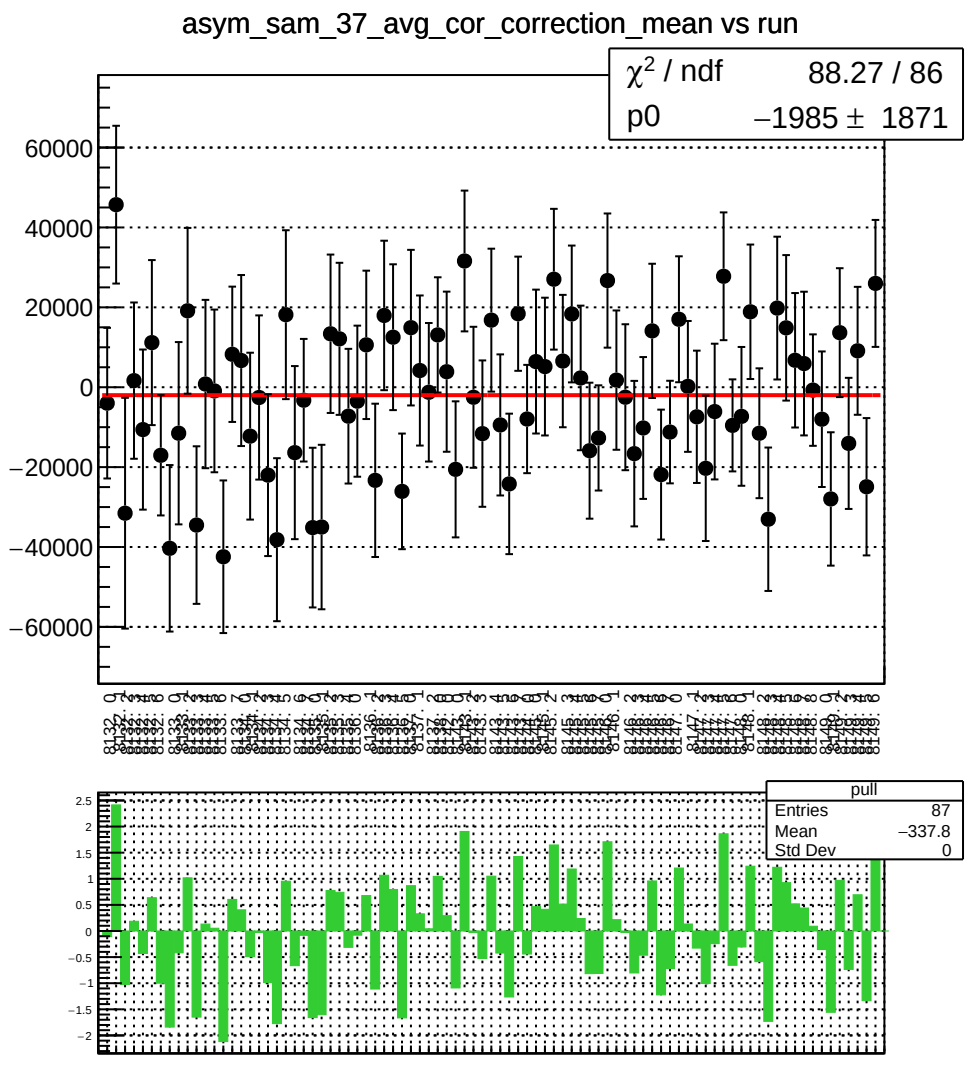

pull1D
Entries 87
Mean −0.007898
Std Dev 1.007
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

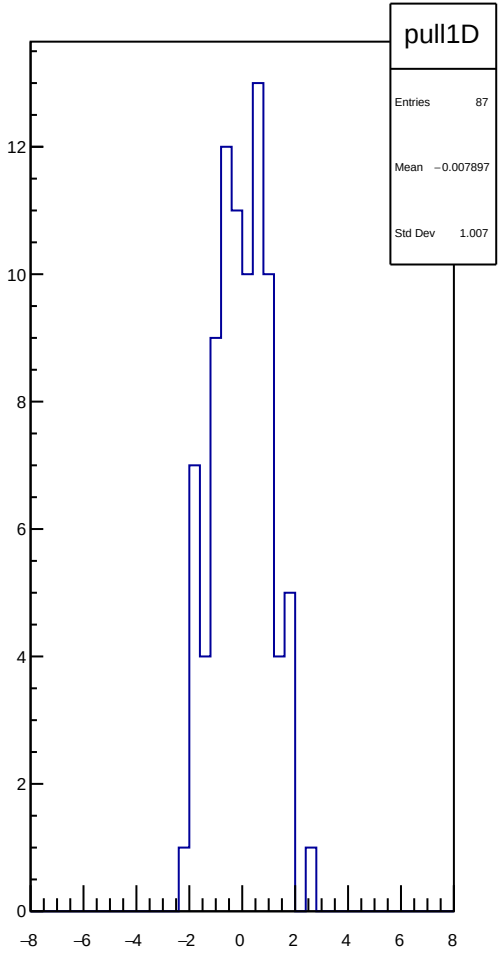

asym_sam_37_avg_reg_correction_rms vs run
χ² / ndf 1.456e+04 / 86
p0 1728 ± 1.323
2800
2600
2400
2200
2000
1800
1600
1400

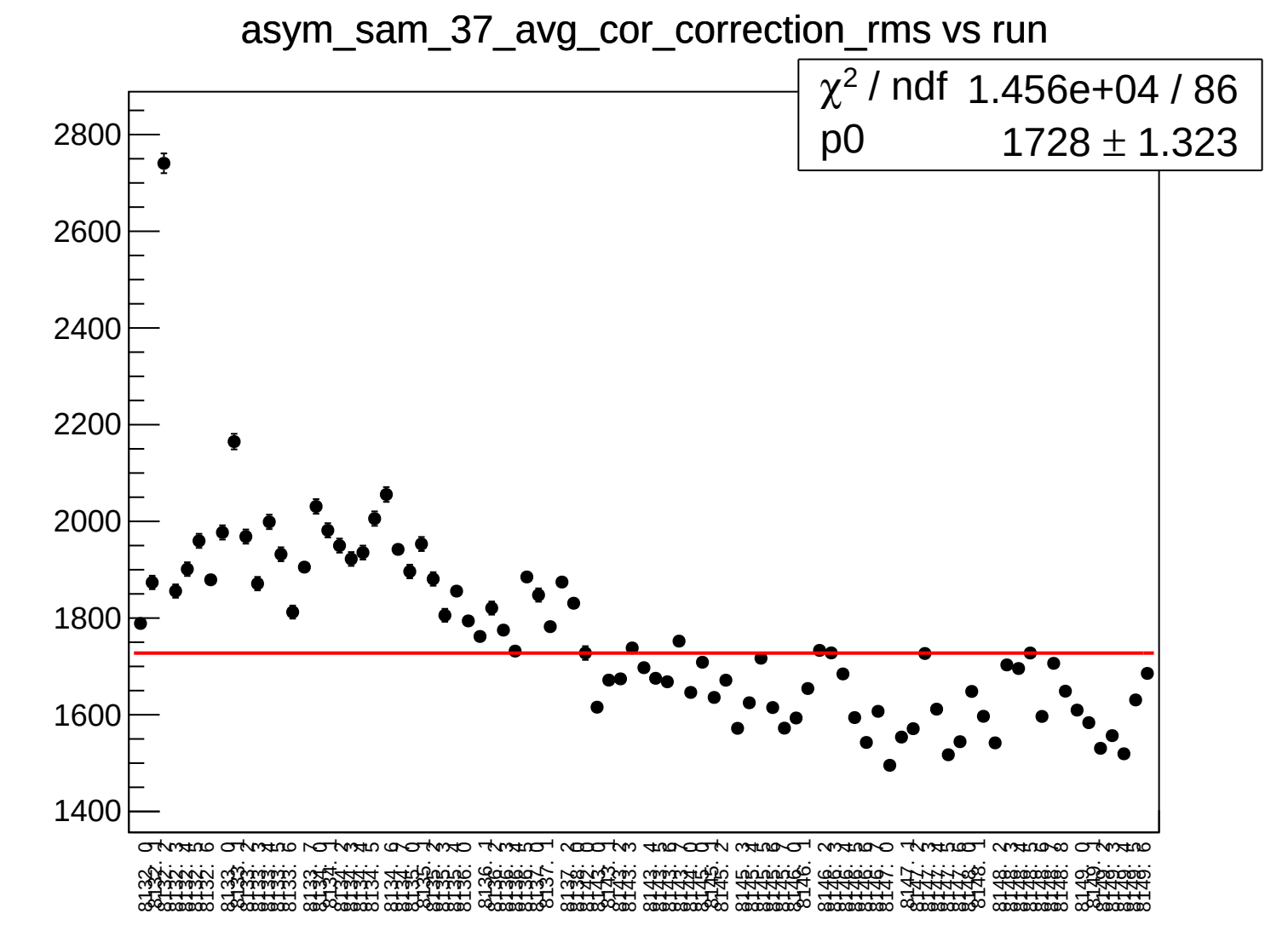

cor_asym_sam_37_avg_mean vs run
χ² / ndf 83.66 / 86
p0 −144 ± 154
pull
Entries 87
Mean −19.59
Std Dev 23.91

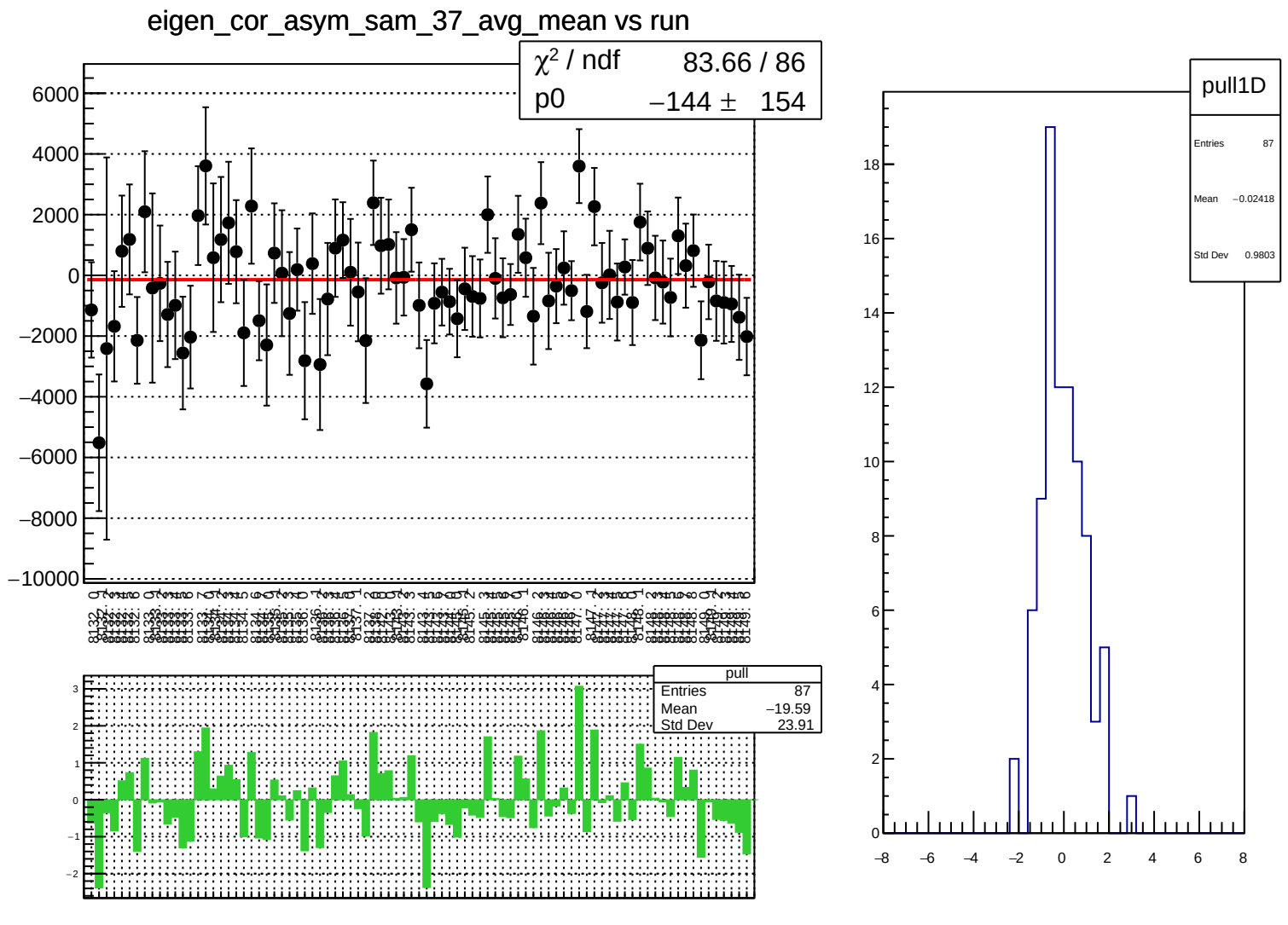

pull1D
Entries 87
Mean −0.02418
Std Dev 0.9803

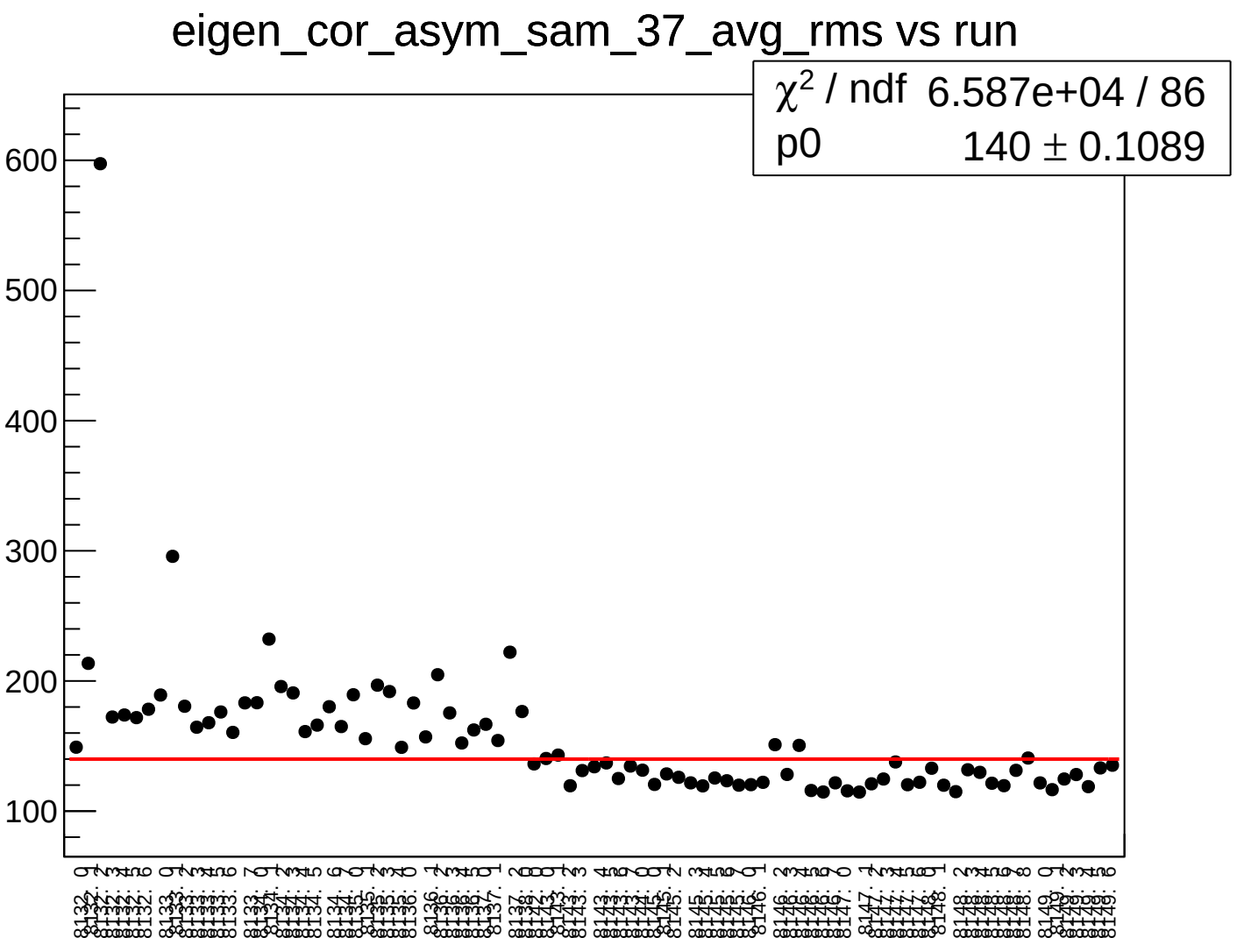

cor_asym_sam_37_avg_rms vs run
χ² / ndf 6.587e+04 / 86
p0 140 ± 0.1089
600
500
400
300
200
100

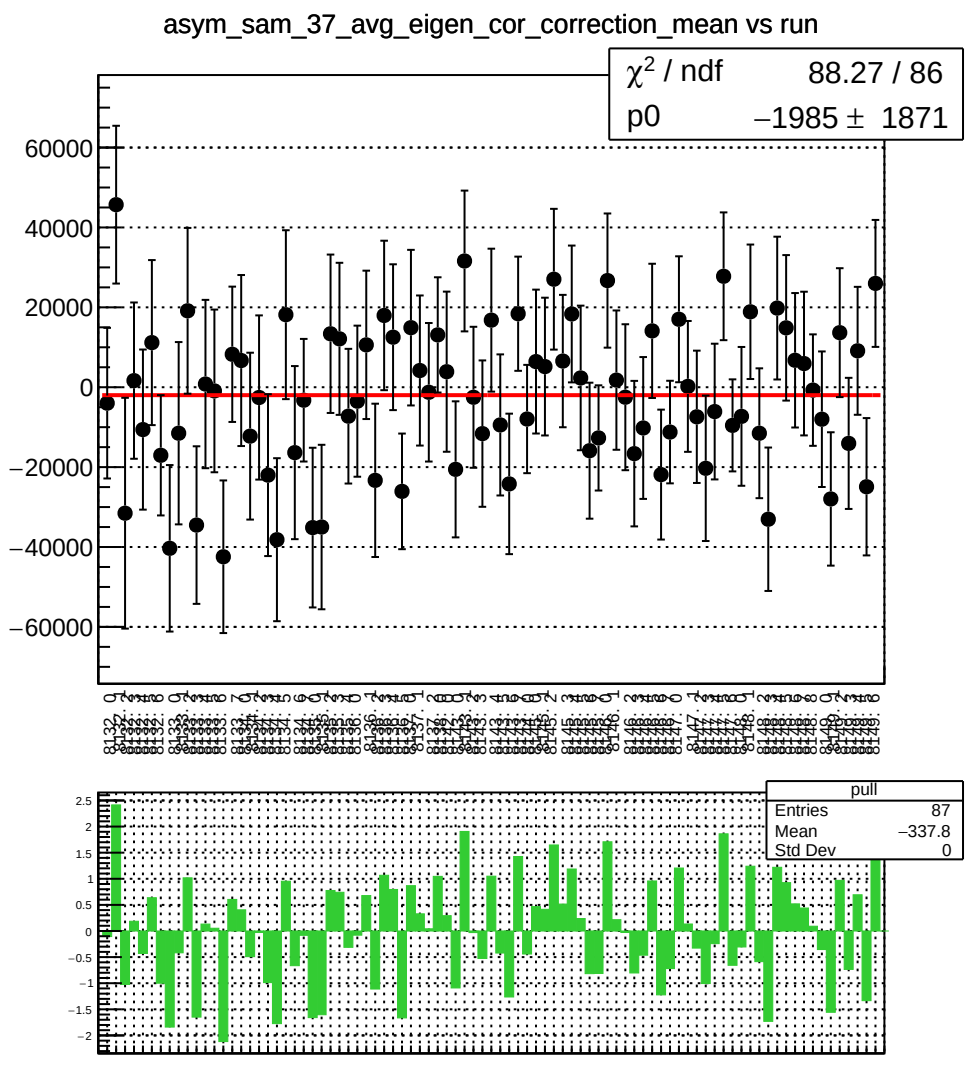

asym_sam_37_avg_cor_correction_mean vs run
χ² / ndf 88.27 / 86
p0 −1985 ± 1871
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −337.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

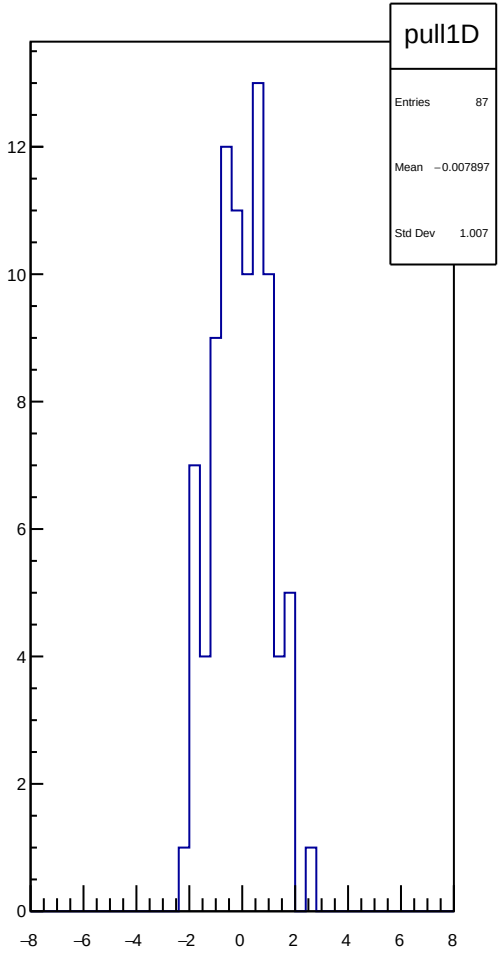

pull1D
Entries 87
Mean −0.007897
Std Dev 1.007
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

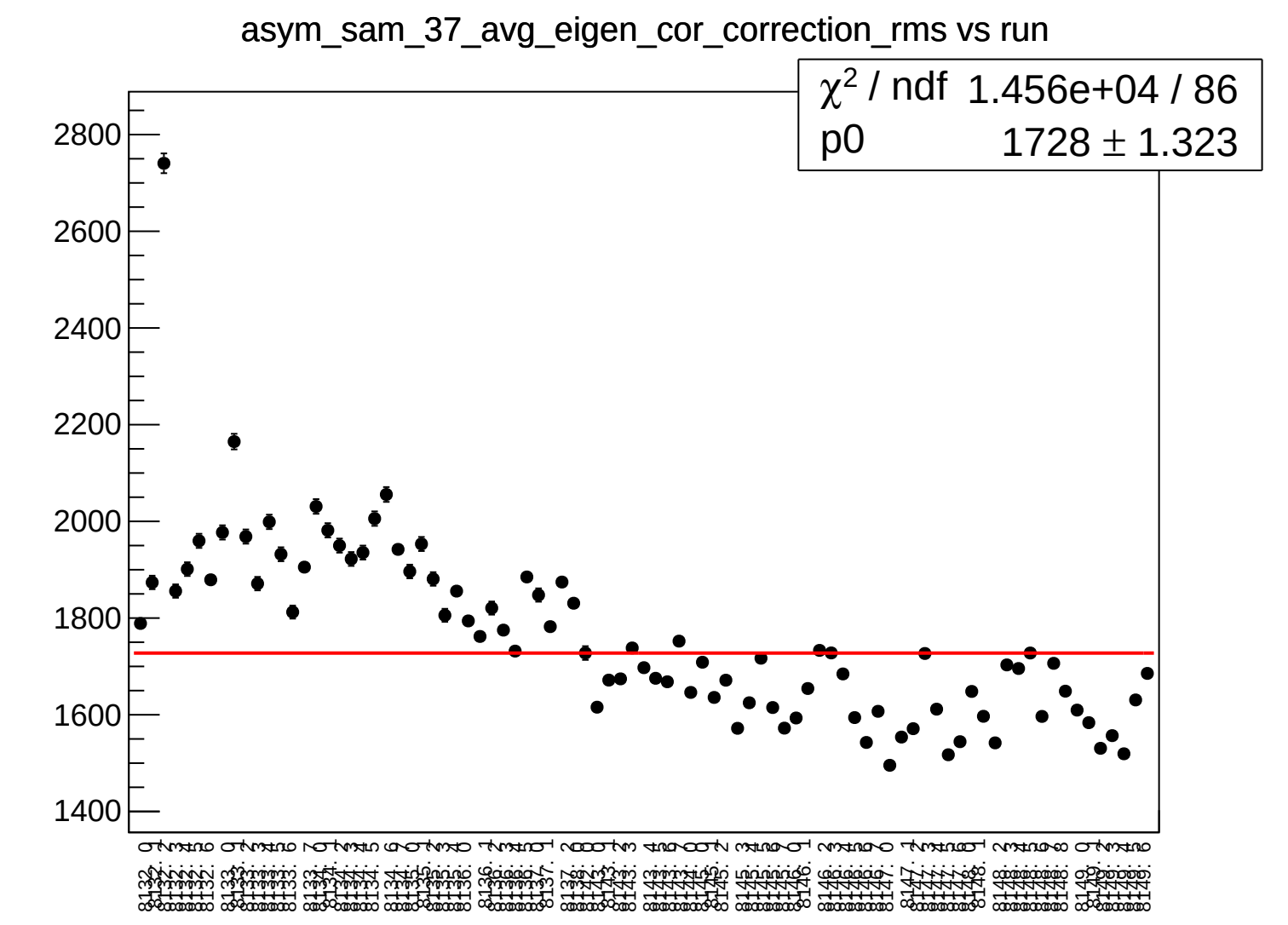

asym_sam_37_avg_cor_correction_rms vs run
χ^2 / ndf 1.456e+04 / 86
p0 1728 ± 1.323
2800
2600
2400
2200
2000
1800
1600
1400

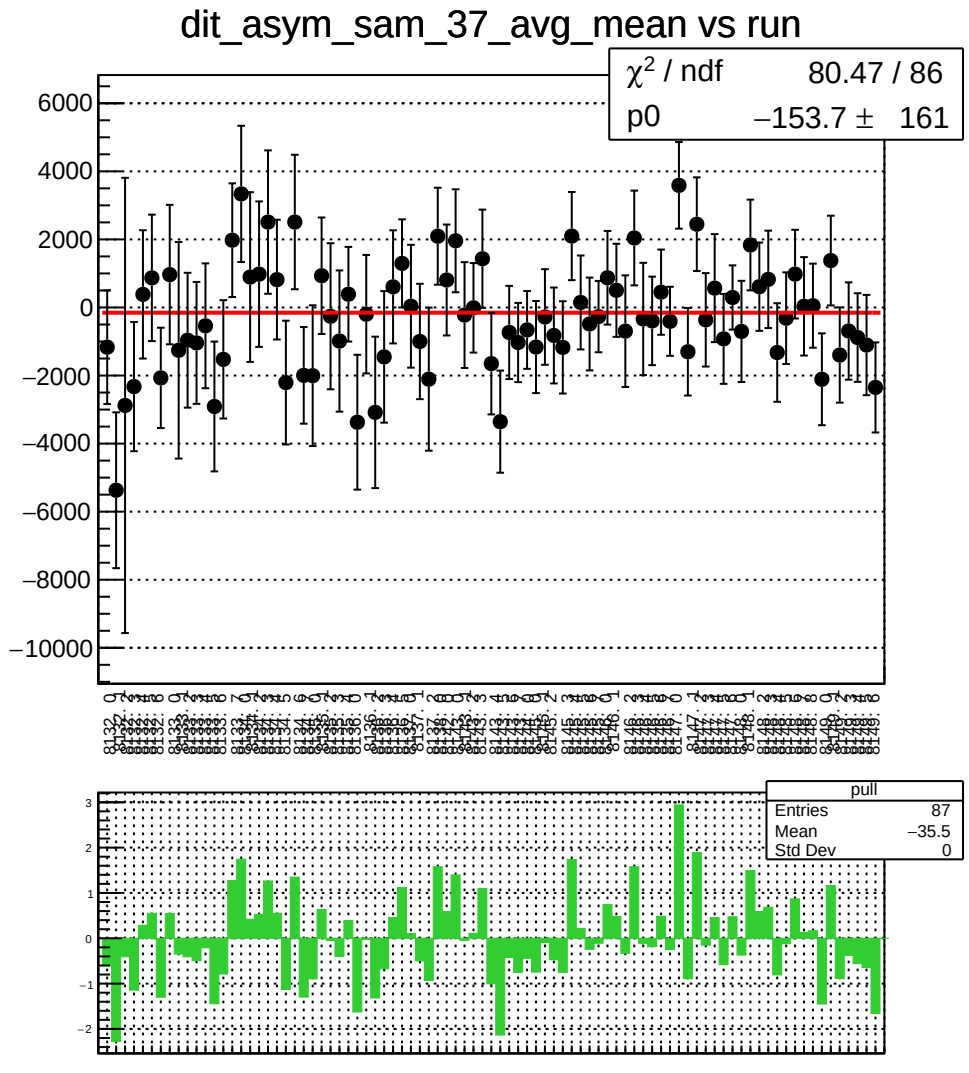

eigen_cor_asym_sam_37_avg_mean vs run
χ² / ndf 83.66 / 86
p0 −144 ± 154
pull
Entries 87
Mean −19.59
Std Dev 23.91
pull1D
Entries 87
Mean −0.02418
Std Dev 0.9803

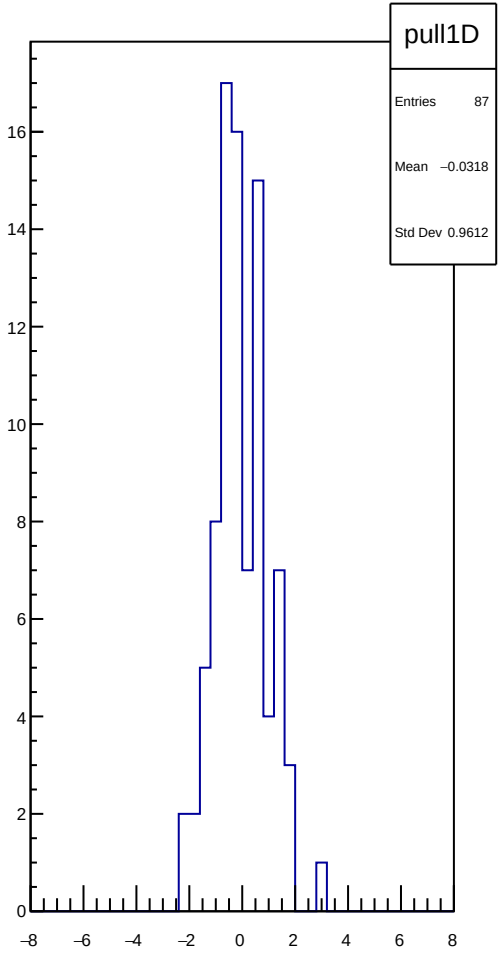

eigen_cor_asym_sam_37_avg_rms vs run
χ² / ndf 6.587e+04 / 86
p0 140 ± 0.1089
600
500
400
300
200
100

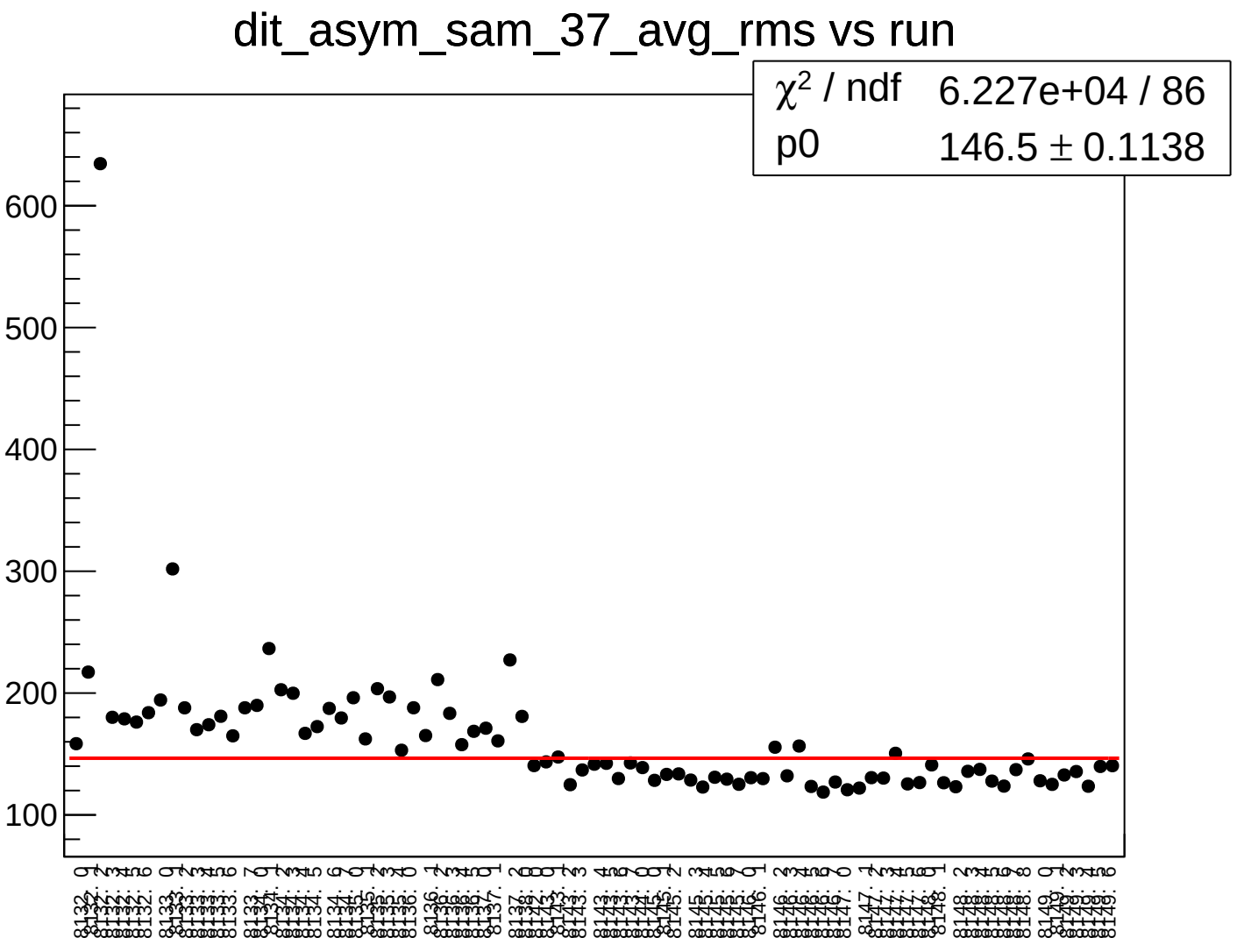

asym_sam_37_avg_eigen_cor_correction_mean vs run
χ² / ndf 88.27 / 86
p0 −1985 ± 1871
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −337.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

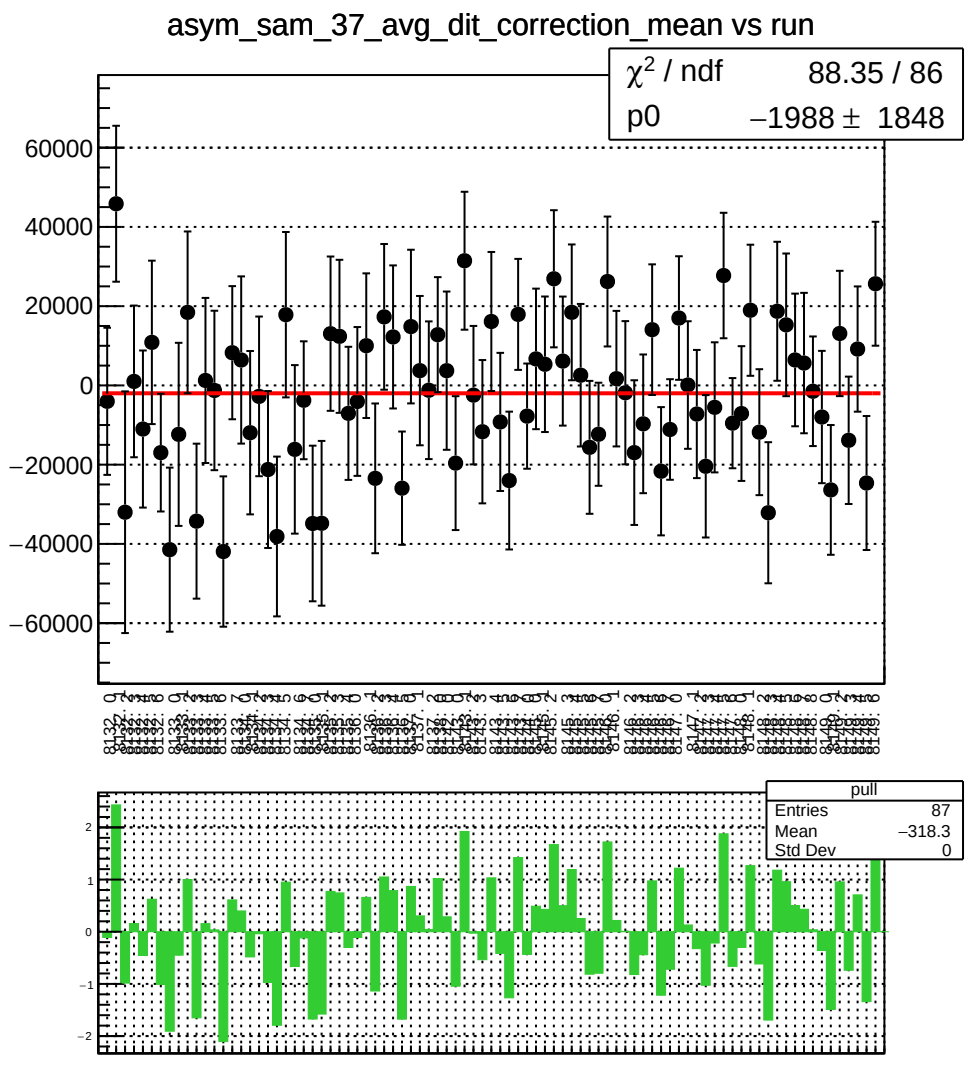

pull1D
Entries 87
Mean −0.007897
Std Dev 1.007
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

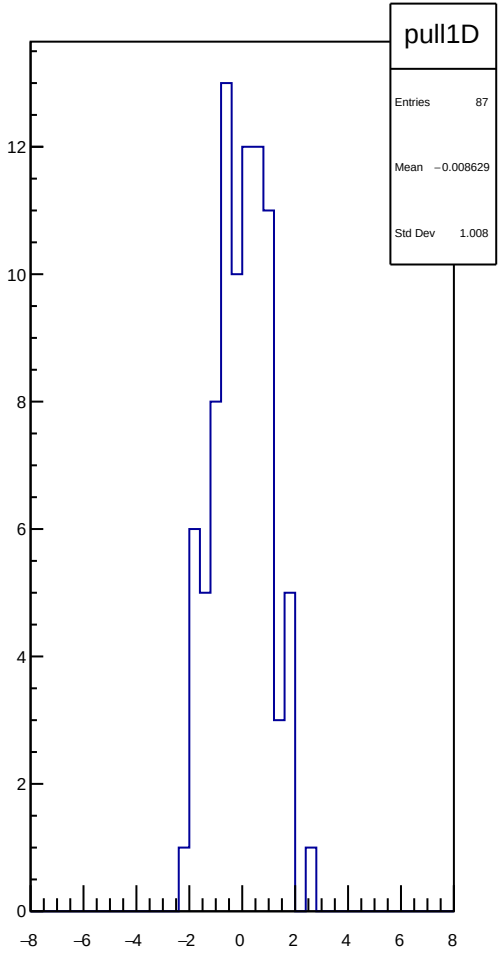

asym_sam_37_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.456e+04 / 86
p0 1728 ± 1.323
2800
2600
2400
2200
2000
1800
1600
1400

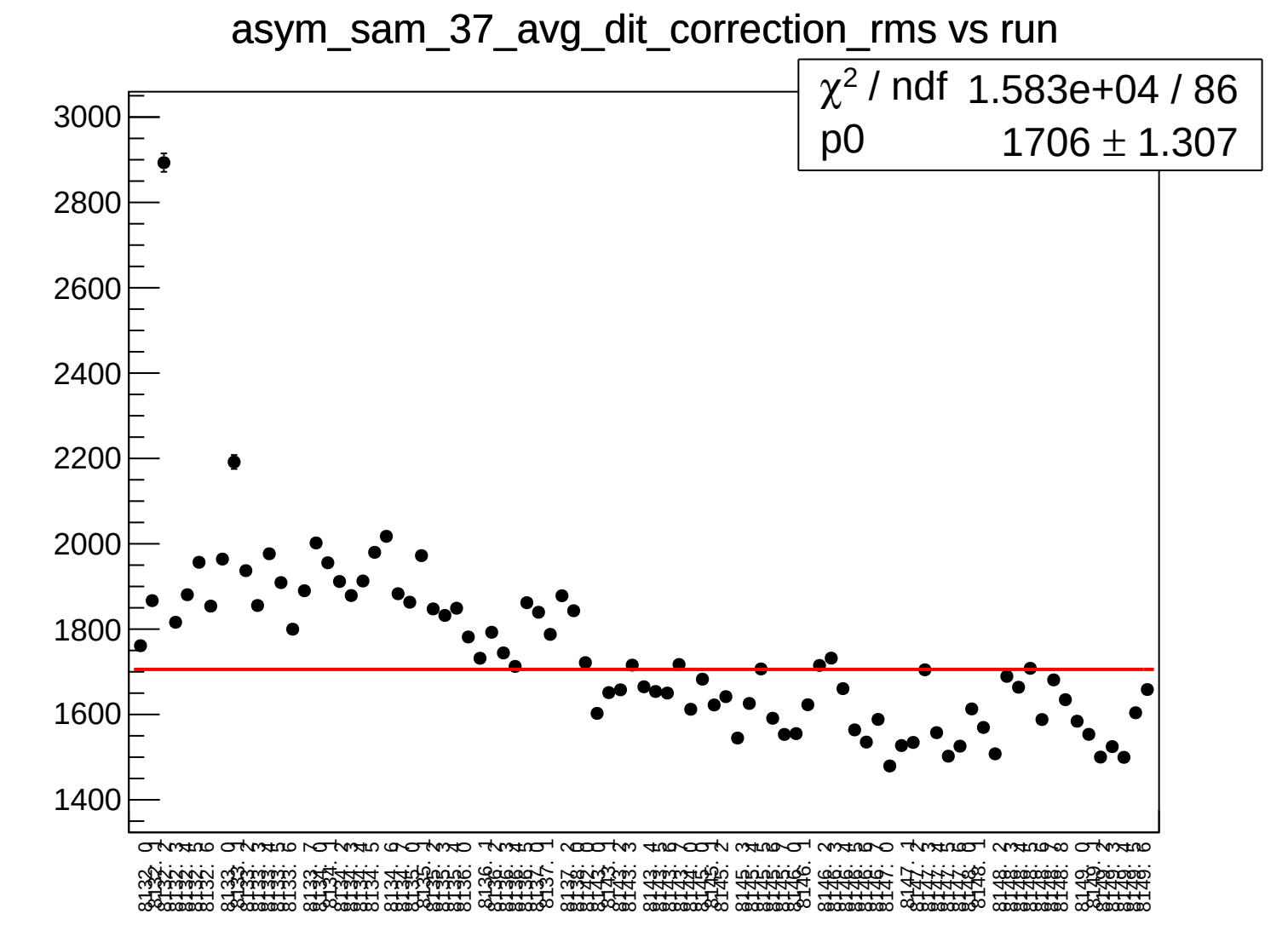

dit_asym_sam_37_avg_mean vs run
χ² / ndf 80.47 / 86
p0 −153.7 ± 161
pull
Entries 87
Mean −35.5
Std Dev 0

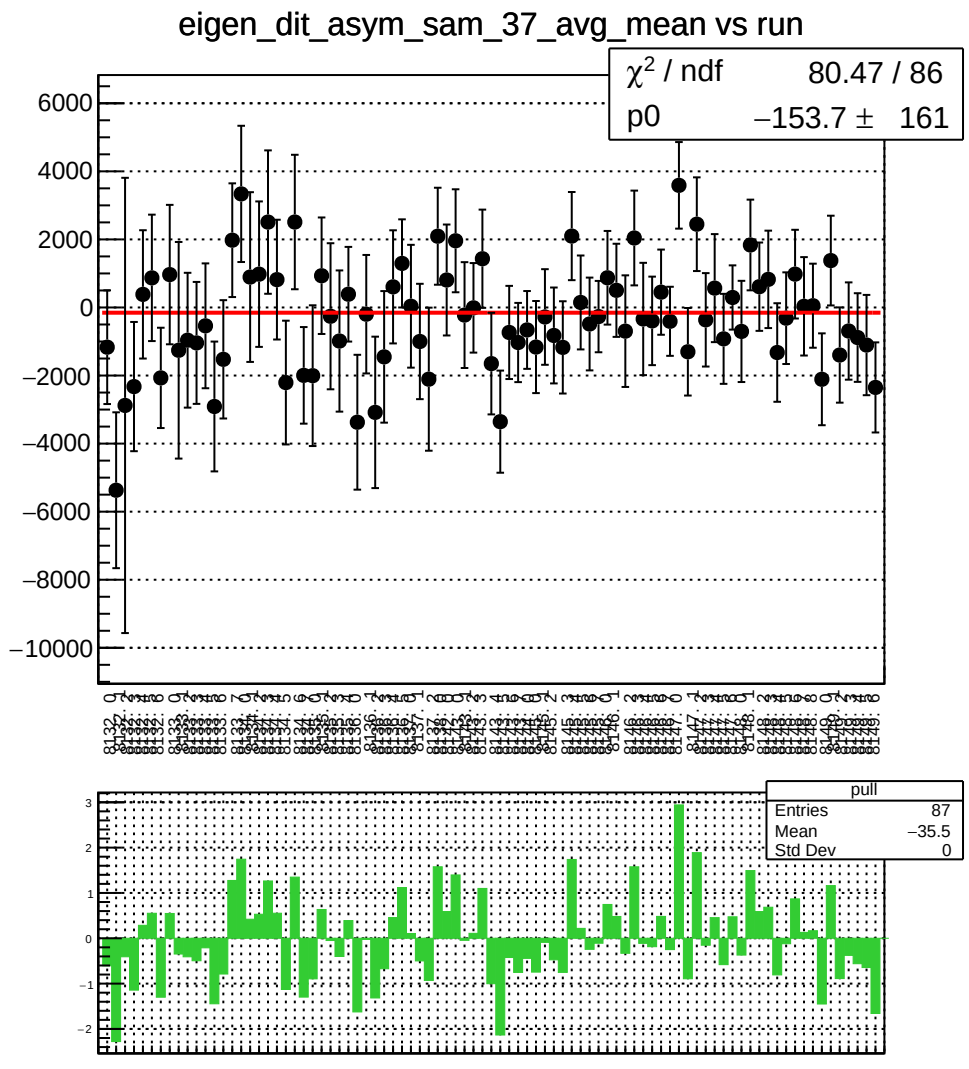

pull1D
Entries 87
Mean −0.0318
Std Dev 0.9612

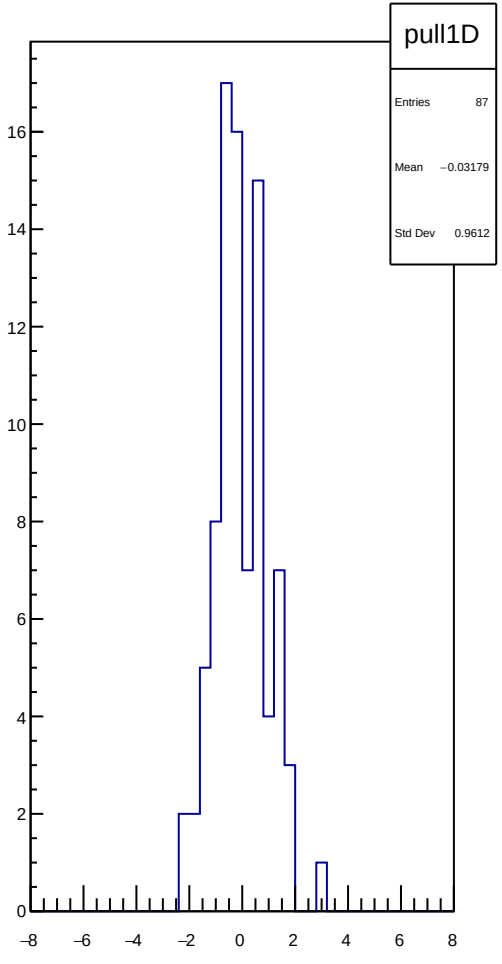

dit_asym_sam_37_avg_rms vs run
χ^2 / ndf 6.227e+04 / 86
p0 146.5 ± 0.1138
600
500
400
300
200
100

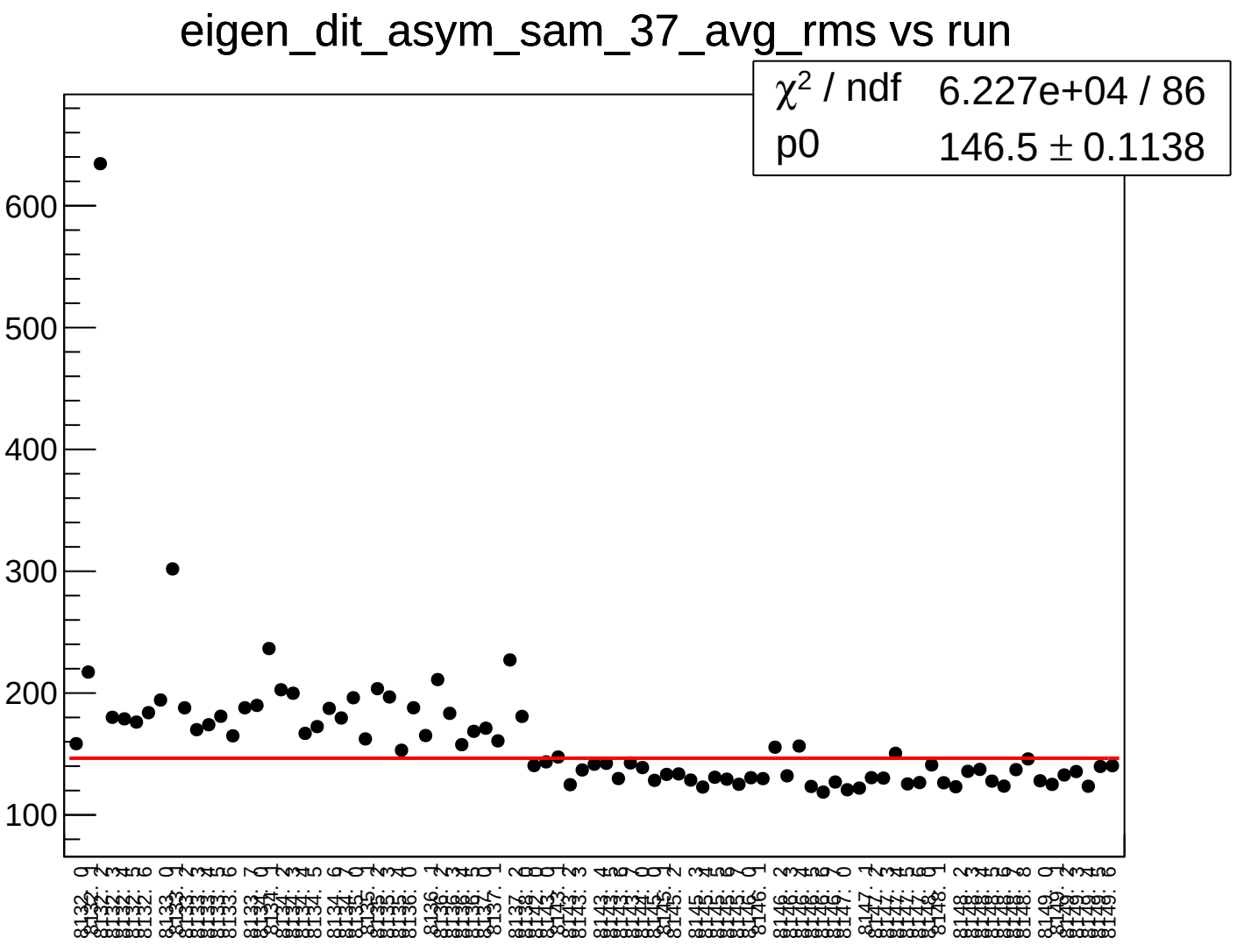

asym_sam_37_avg_dit_correction_mean vs run
χ² / ndf 88.35 / 86
p0 −1988 ± 1848
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −318.3
Std Dev 0
2
1
0
−1
−2

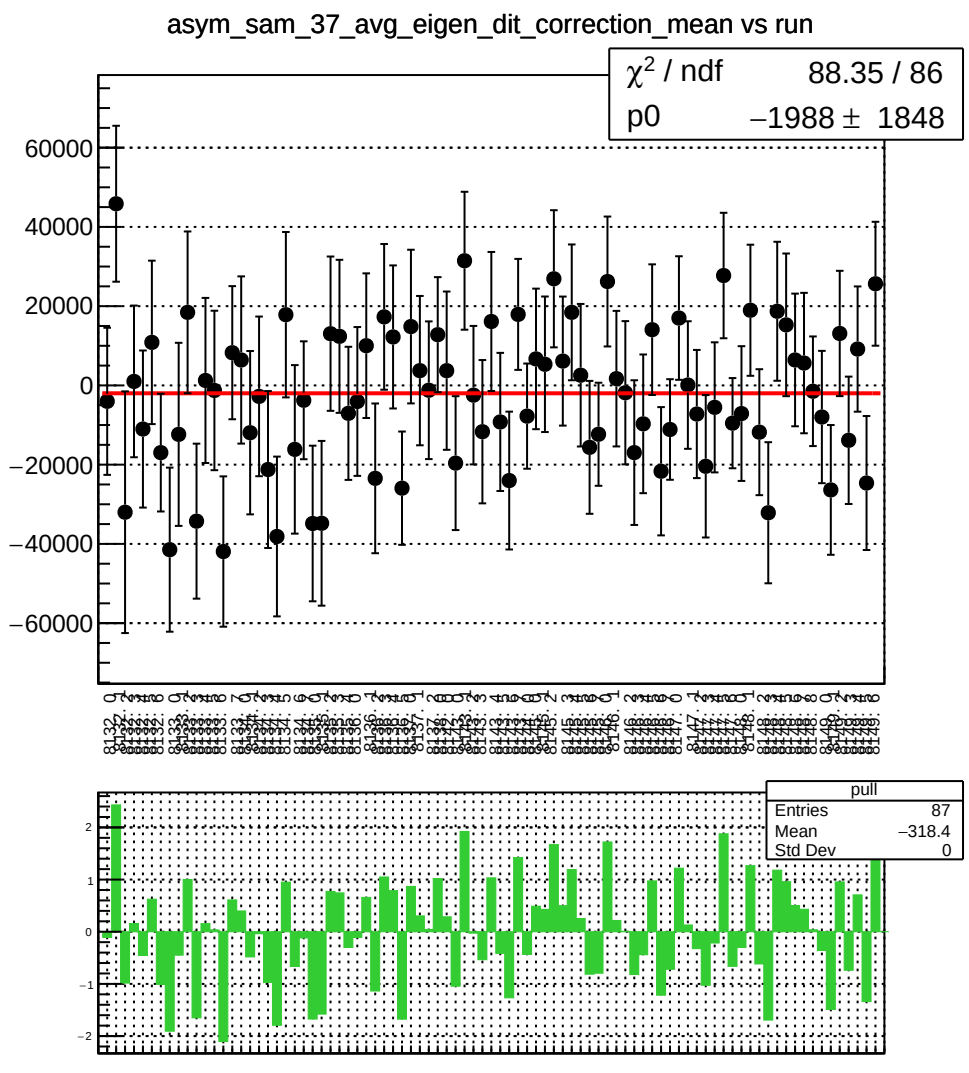

pull1D
Entries 87
Mean −0.008629
Std Dev 1.008
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

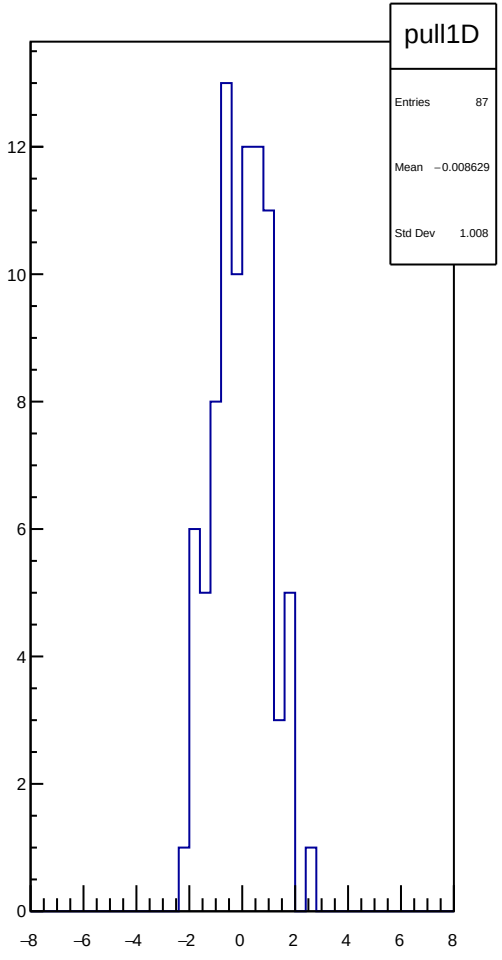

asym_sam_37_avg_dit_correction_rms vs run
χ² / ndf 1.583e+04 / 86
p0 1706 ± 1.307
3000
2800
2600
2400
2200
2000
1800
1600
1400

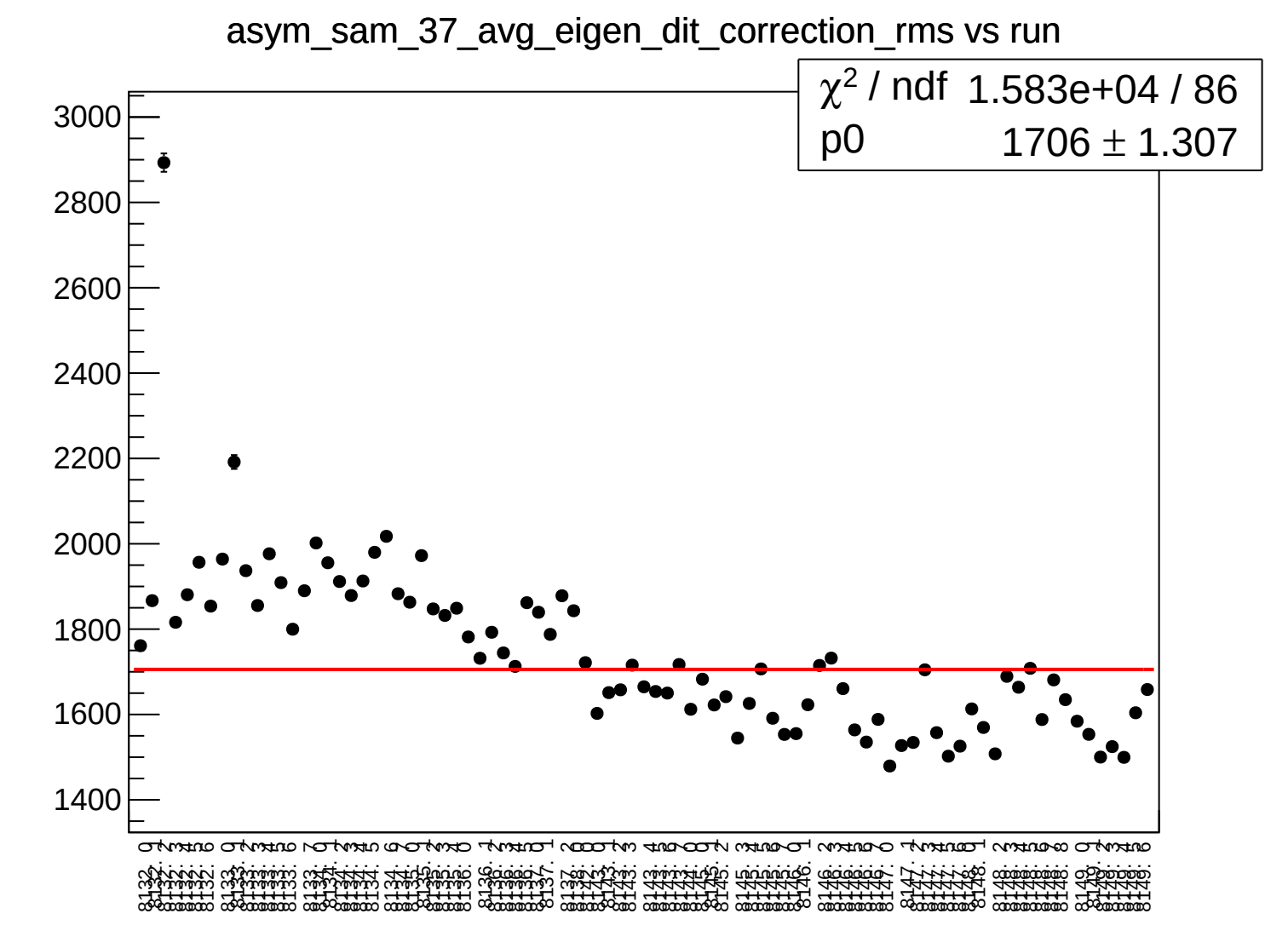

eigen_dit_asym_sam_37_avg_mean vs run
χ² / ndf 80.47 / 86
p0 −153.7 ± 161
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
pull
Entries 87
Mean −35.5
Std Dev 0
3
2
1
0
−1
−2

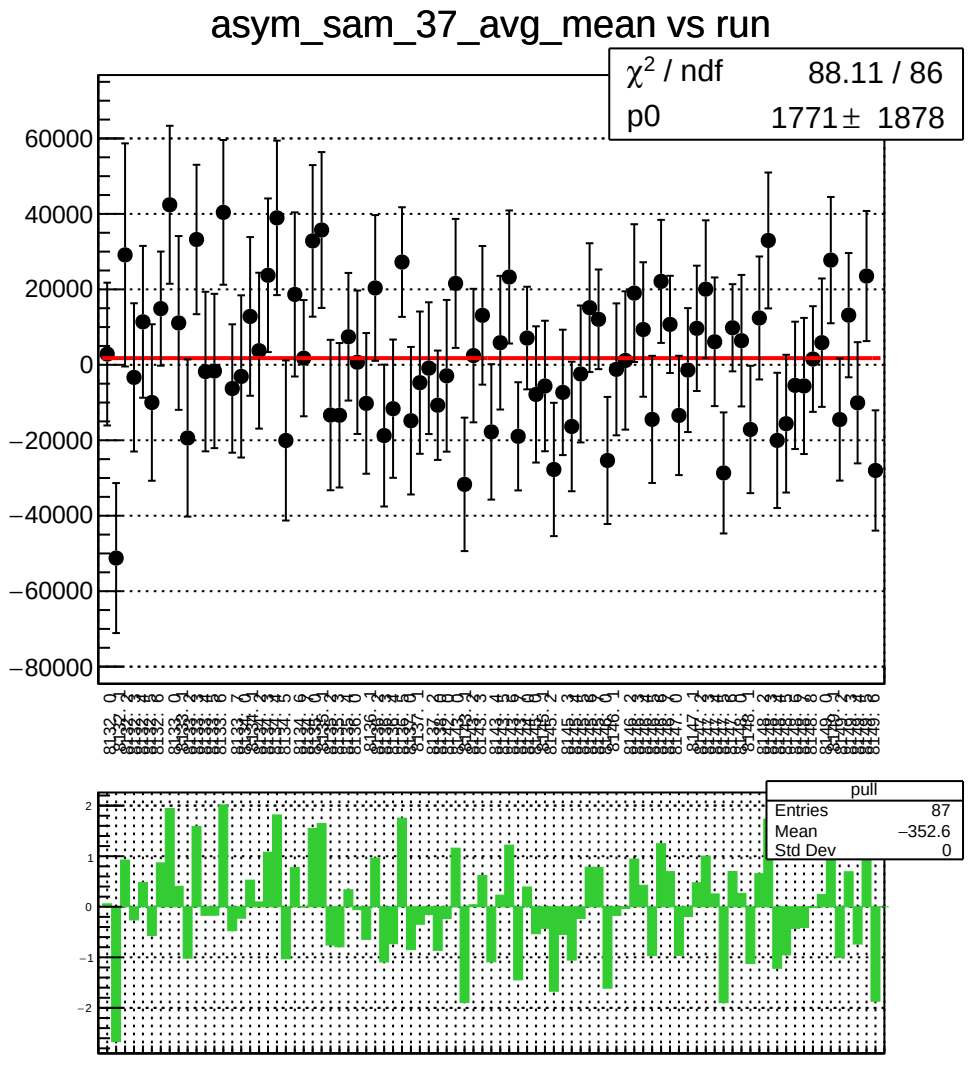

pull1D
Entries 87
Mean −0.03179
Std Dev 0.9612
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

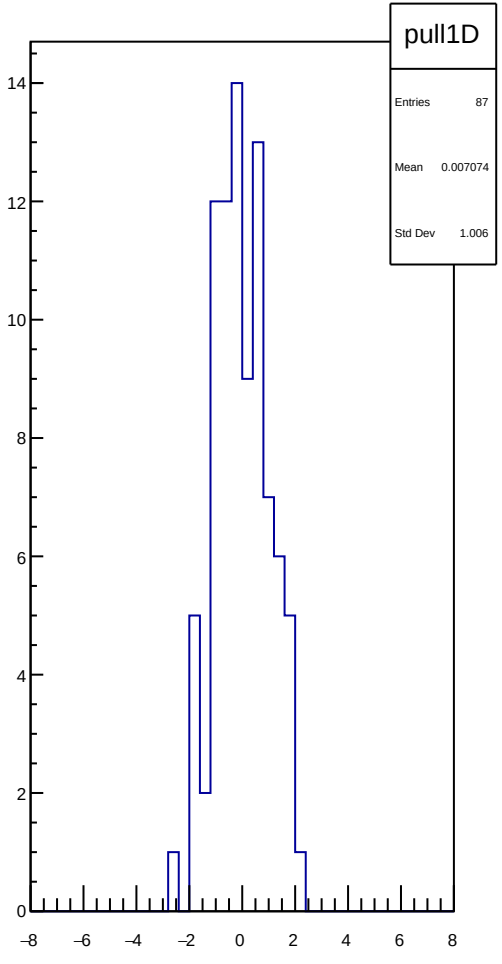

eigen_dit_asym_sam_37_avg_rms vs run
χ² / ndf 6.227e+04 / 86
p0 146.5 ± 0.1138
600
500
400
300
200
100

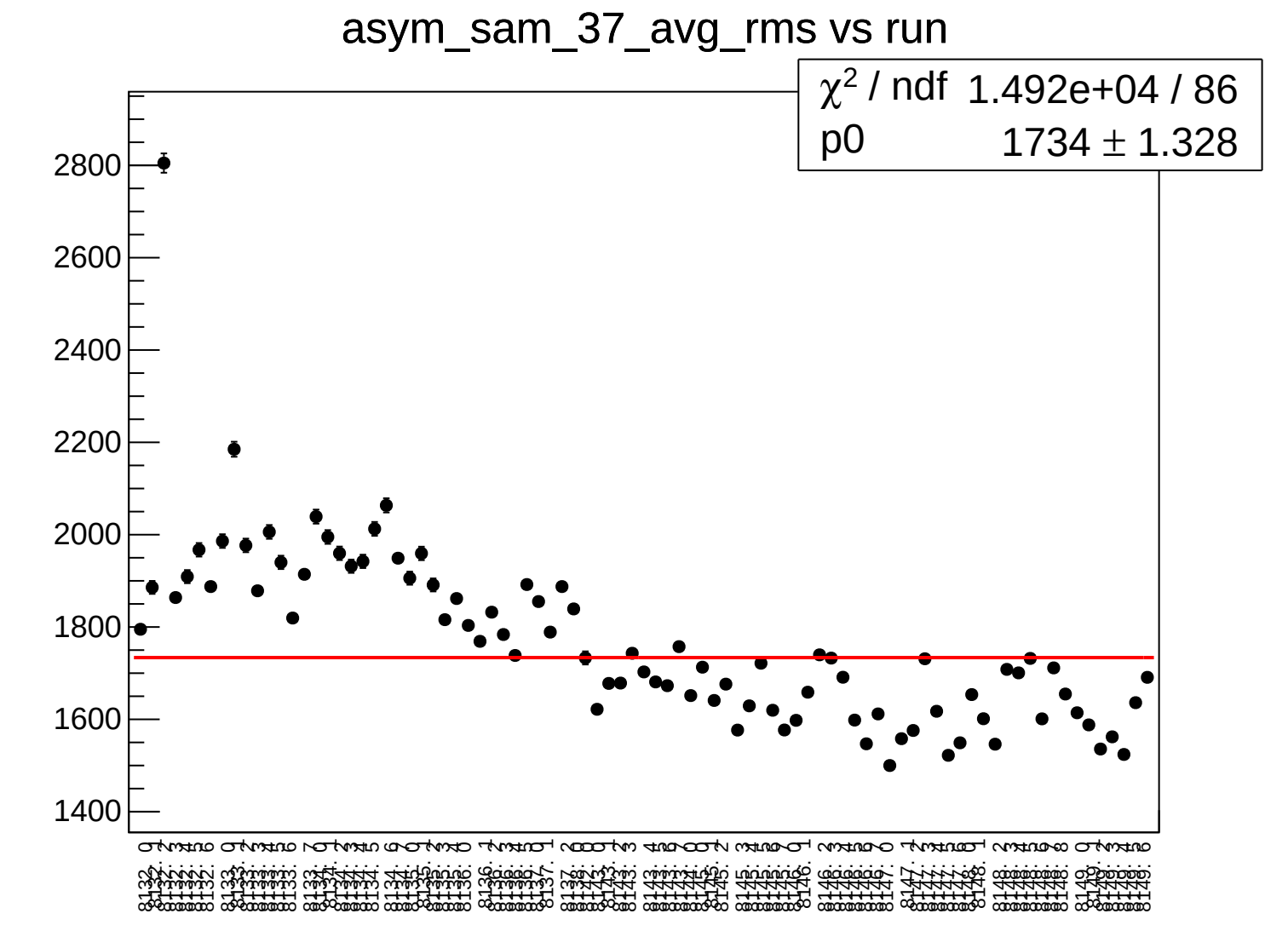

asym_sam_37_avg_eigen_dit_correction_mean vs run
χ² / ndf 88.35 / 86
p0 −1988 ± 1848
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −318.4
Std Dev 0
2
1
0
−1
−2

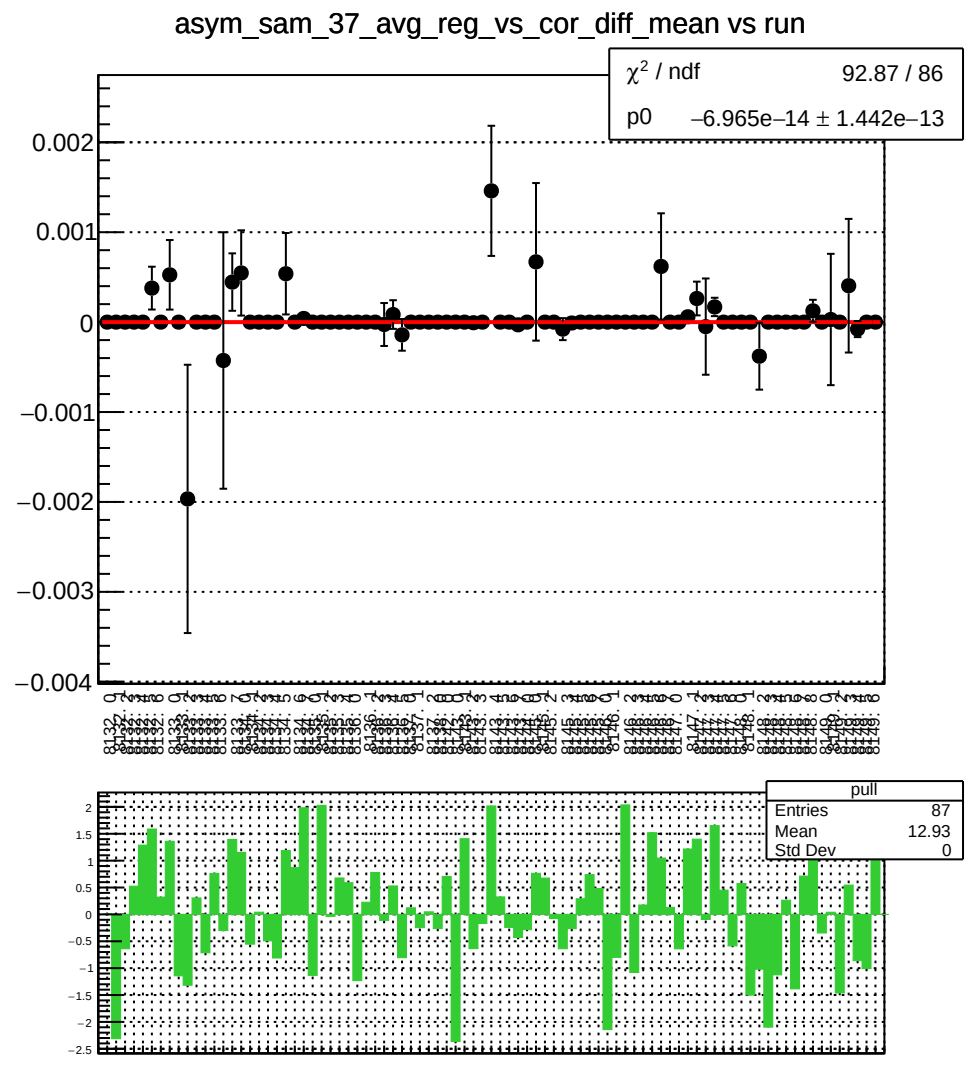

pull1D
Entries 87
Mean −0.008629
Std Dev 1.008
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

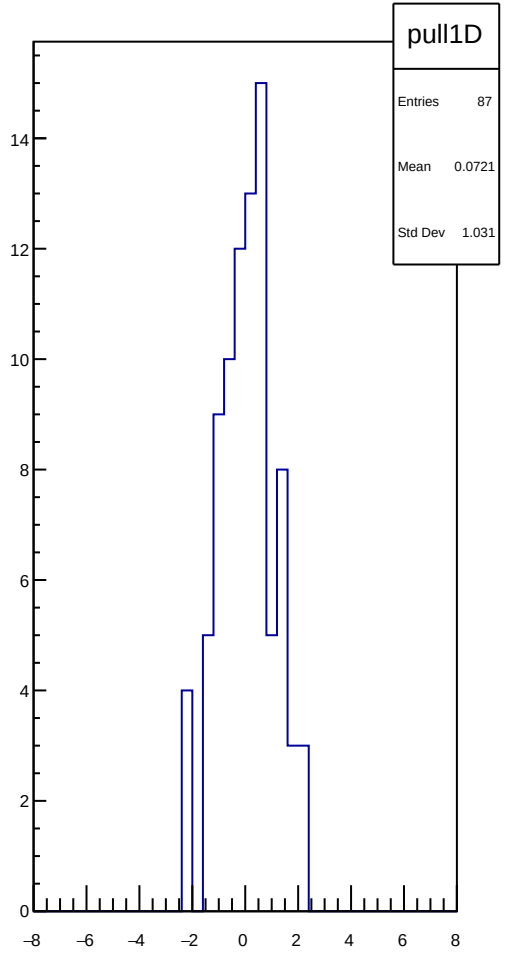

asym_sam_37_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.583e+04 / 86
p0 1706 ± 1.307
3000
2800
2600
2400
2200
2000
1800
1600
1400

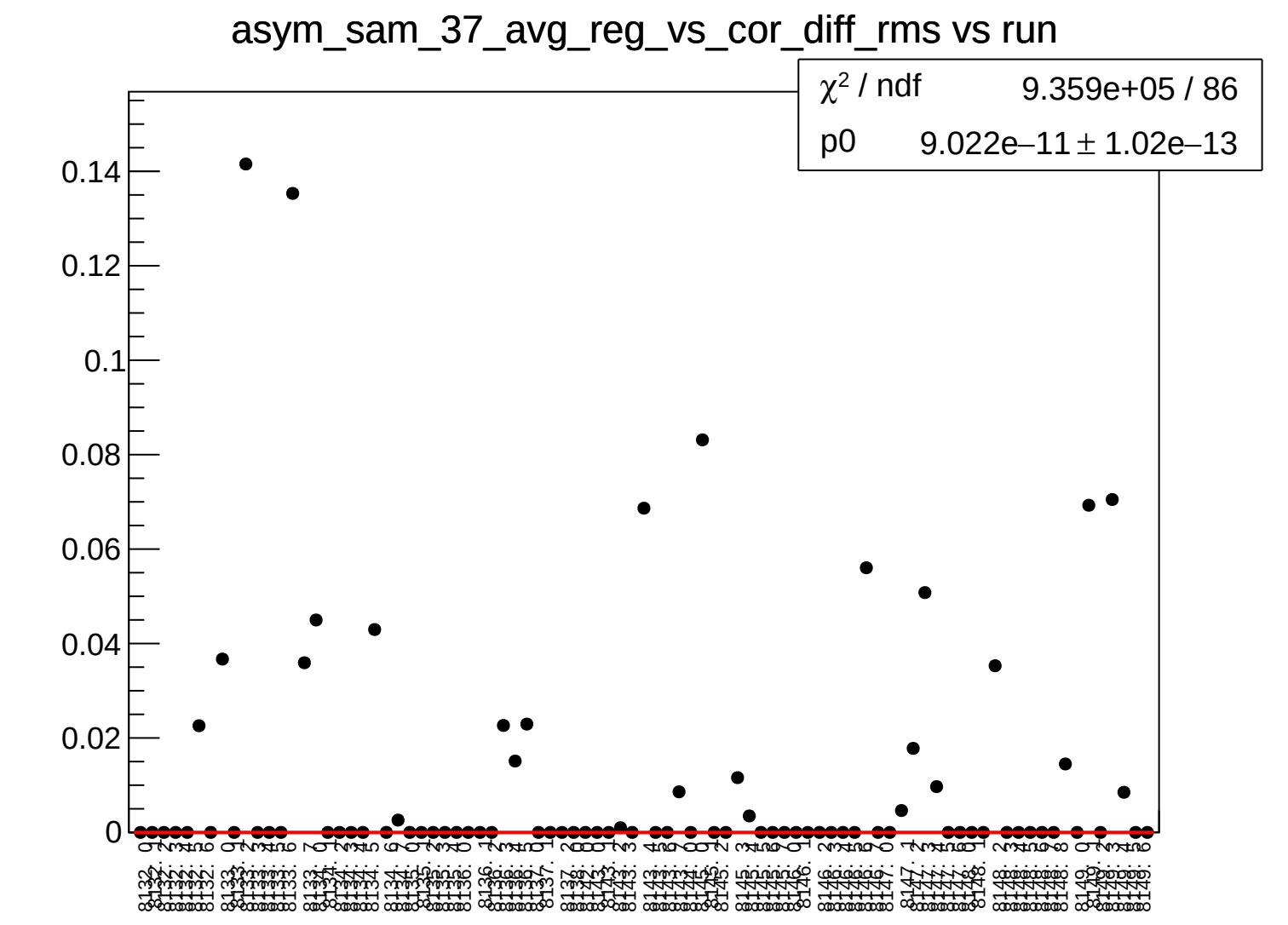

asym_sam_37_avg_mean vs run
χ² / ndf 88.11 / 86
p0 1771 ± 1878
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean −352.6
Std Dev 0
2
1
0
−1
−2

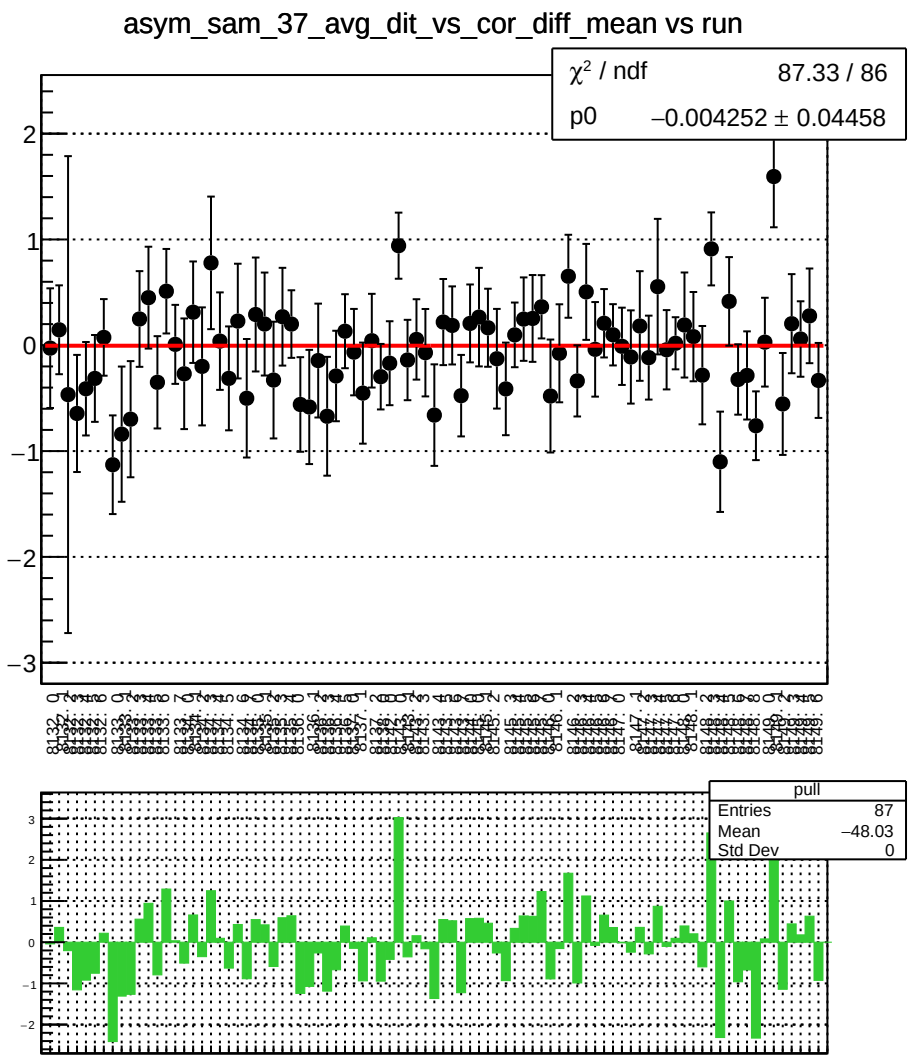

pull1D
Entries 87
Mean 0.007074
Std Dev 1.006
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

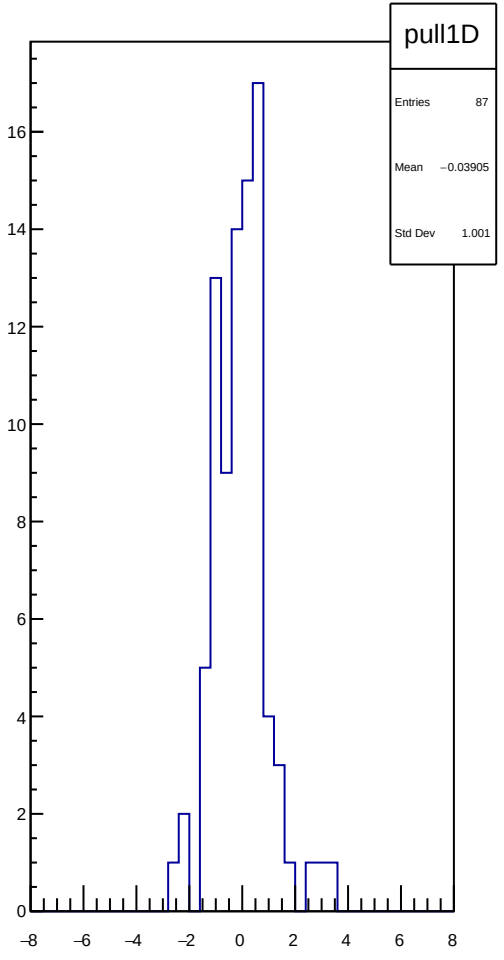

asym_sam_37_avg_rms vs run
χ² / ndf 1.492e+04 / 86
p0 1734 ± 1.328
2800
2600
2400
2200
2000
1800
1600
1400

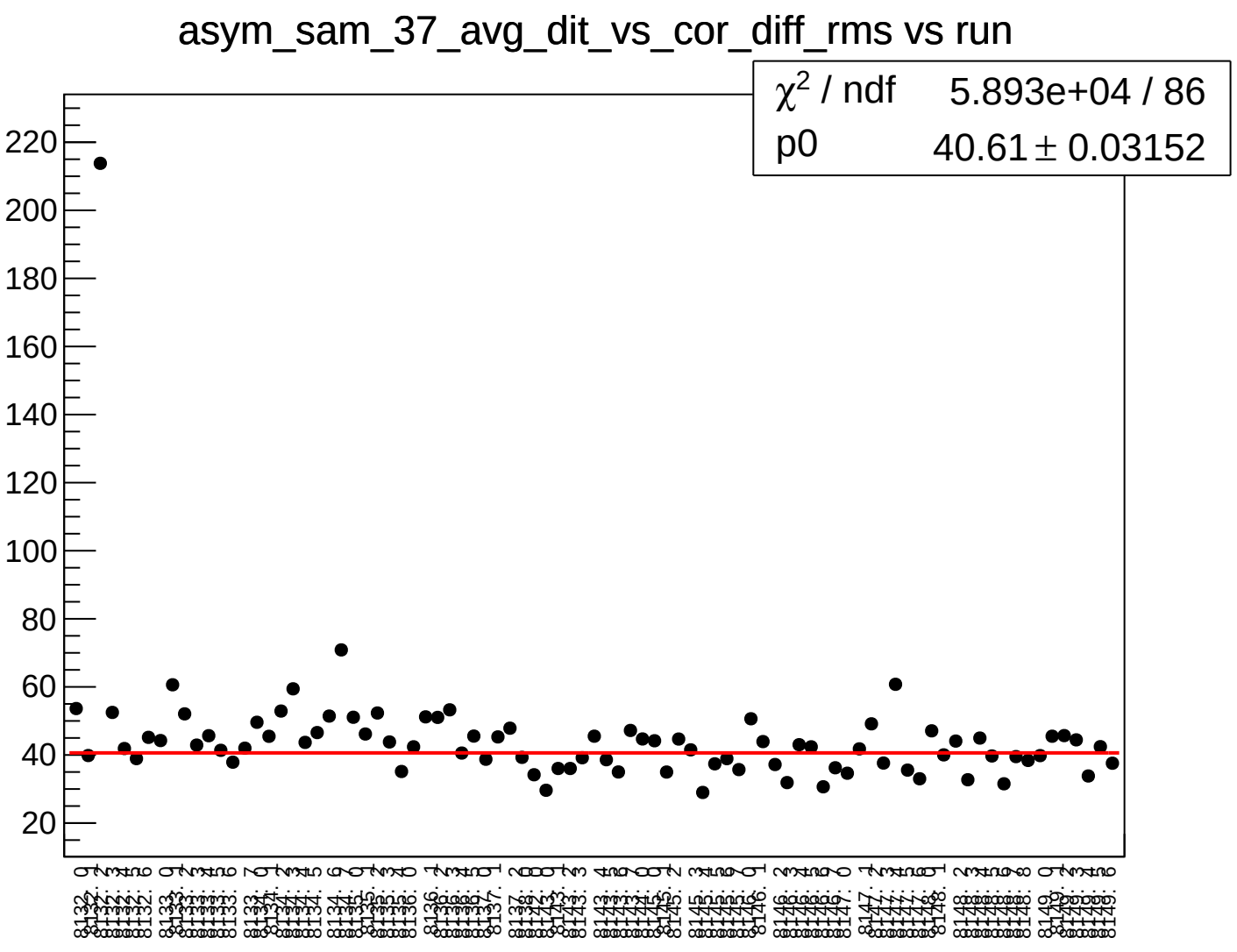

asym_sam_37_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 92.87 / 86
p0 −6.965e−14 ± 1.442e−13
0.002
0.001
0
−0.001
−0.002
−0.003
−0.004
pull
Entries 87
Mean 12.93
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

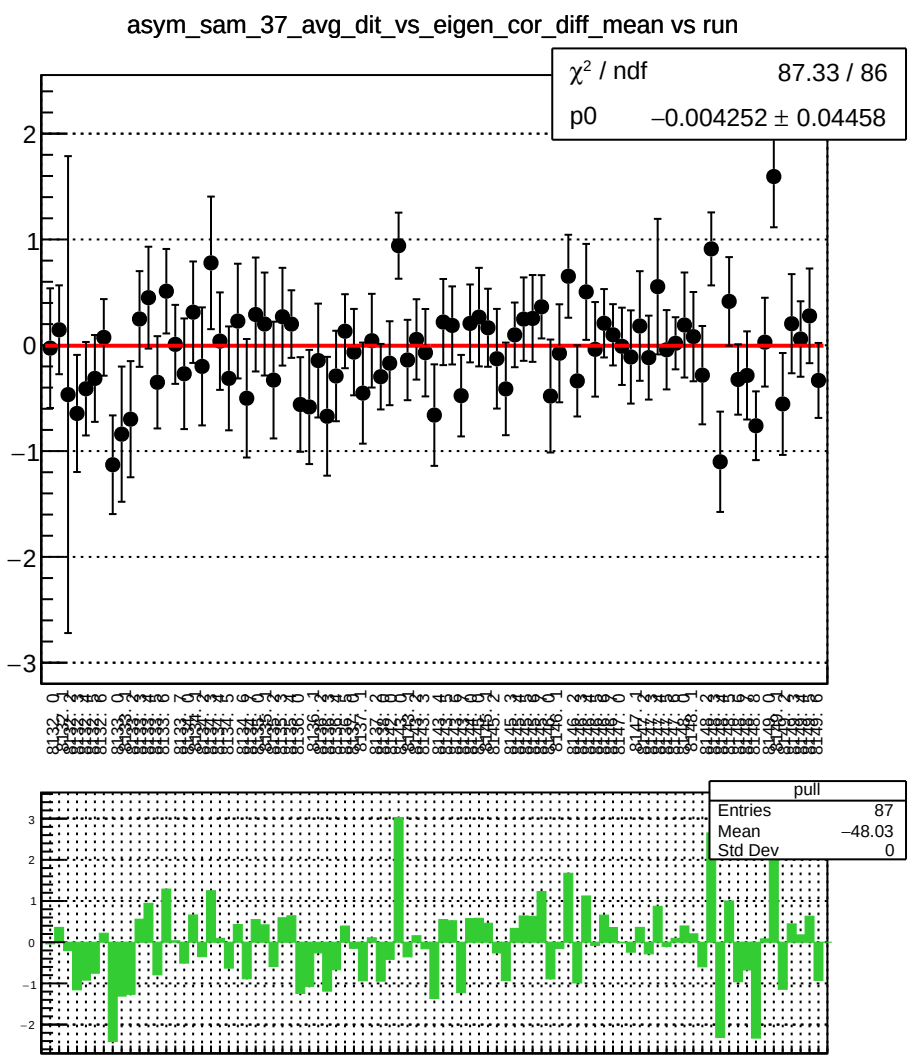

pull1D
Entries 87
Mean 0.0721
Std Dev 1.031
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

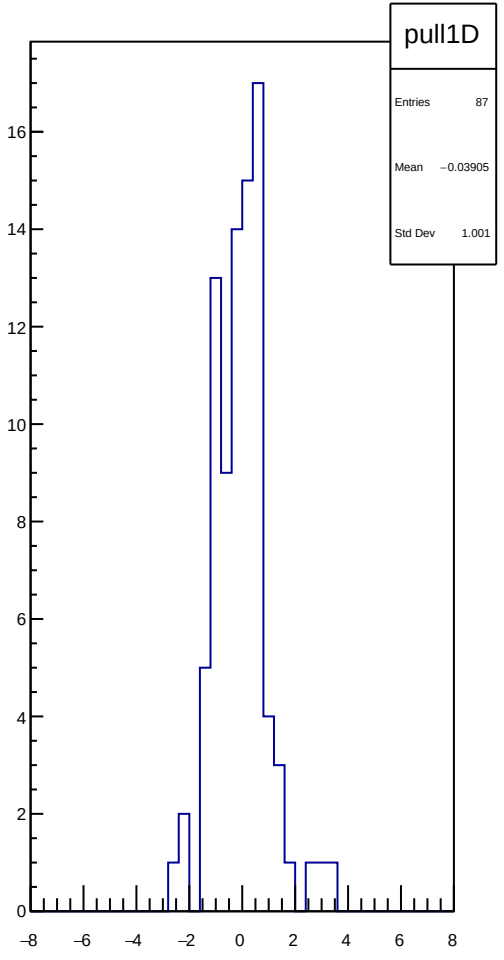

asym_sam_37_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.359e+05 / 86
p0 9.022e−11 ± 1.02e−13
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

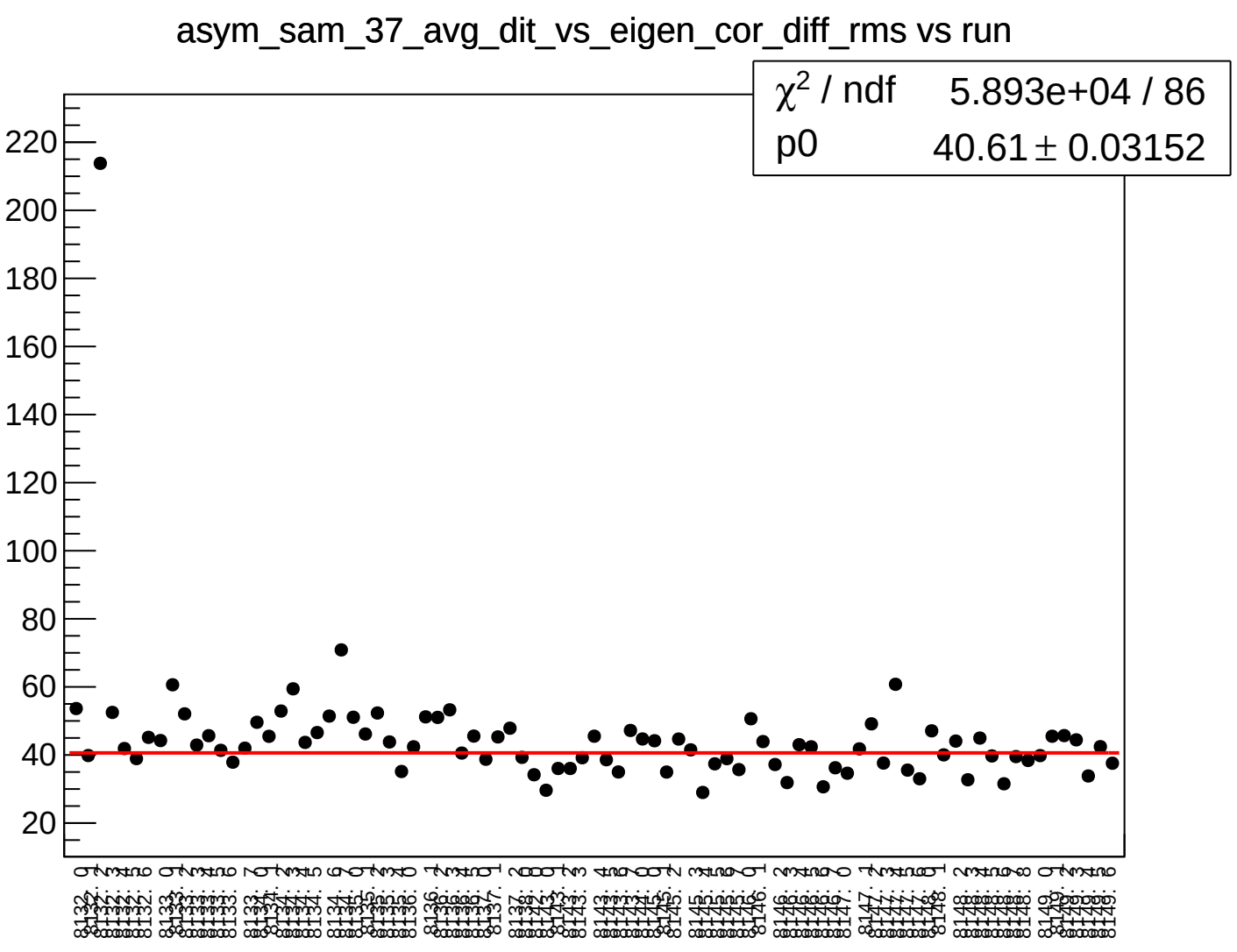

asym_sam_37_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 87.33 / 86
p0 −0.004252 ± 0.04458
pull
Entries 87
Mean −48.03
Std Dev 0

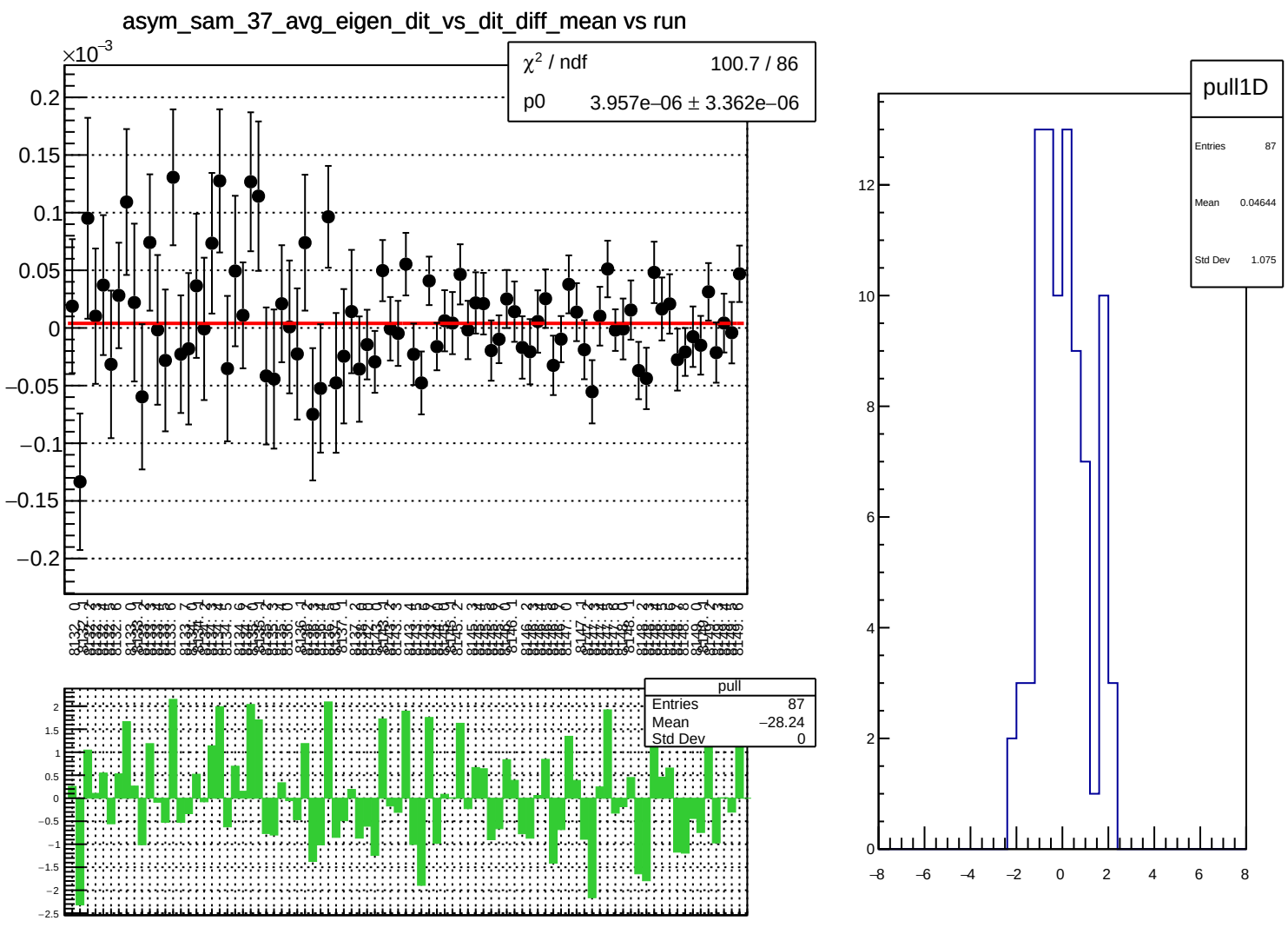

pull1D
Entries 87
Mean −0.03905
Std Dev 1.001

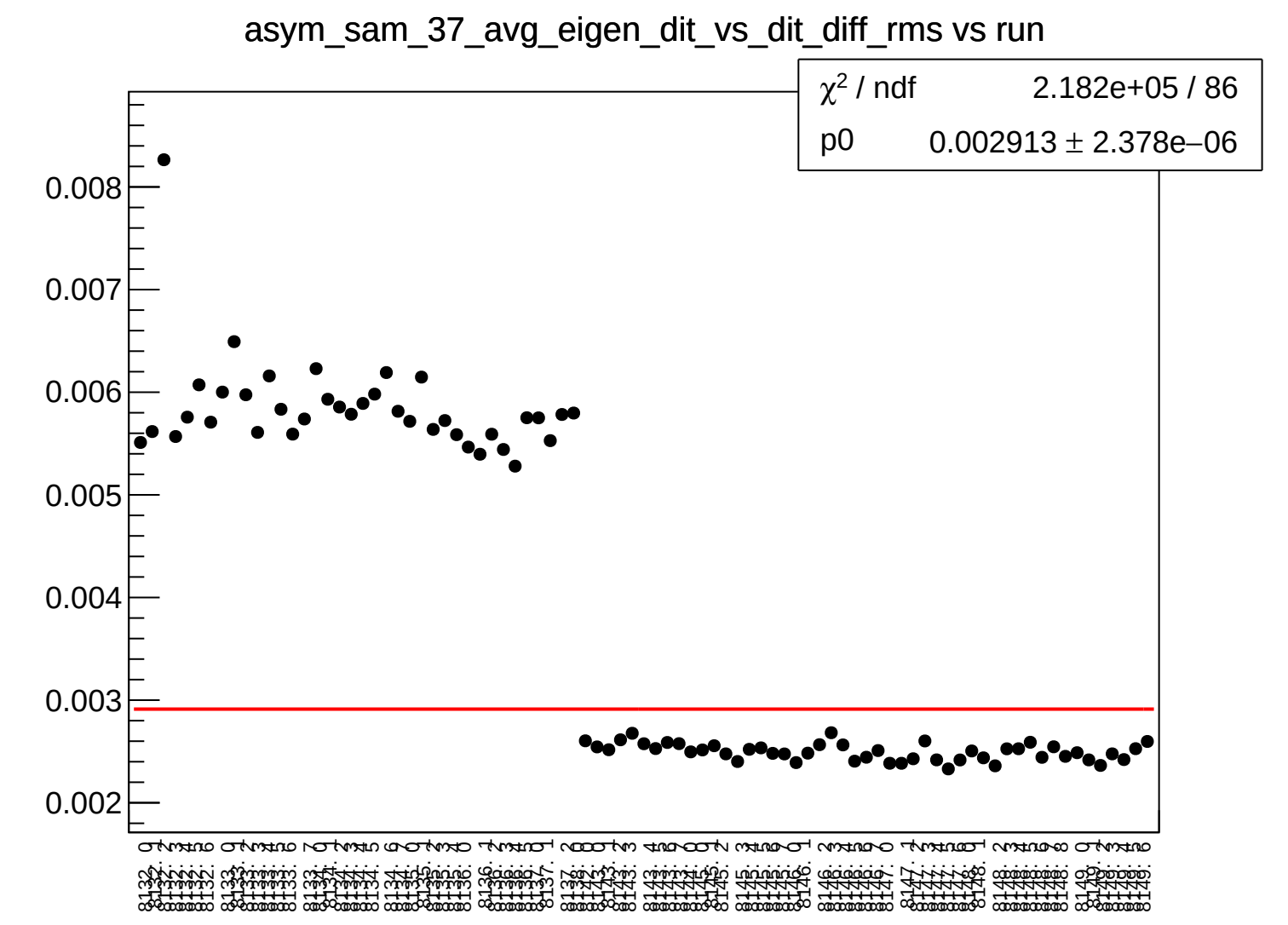

asym_sam_37_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 5.893e+04 / 86
p0 40.61 ± 0.03152
220
200
180
160
140
120
100
80
60
40
20

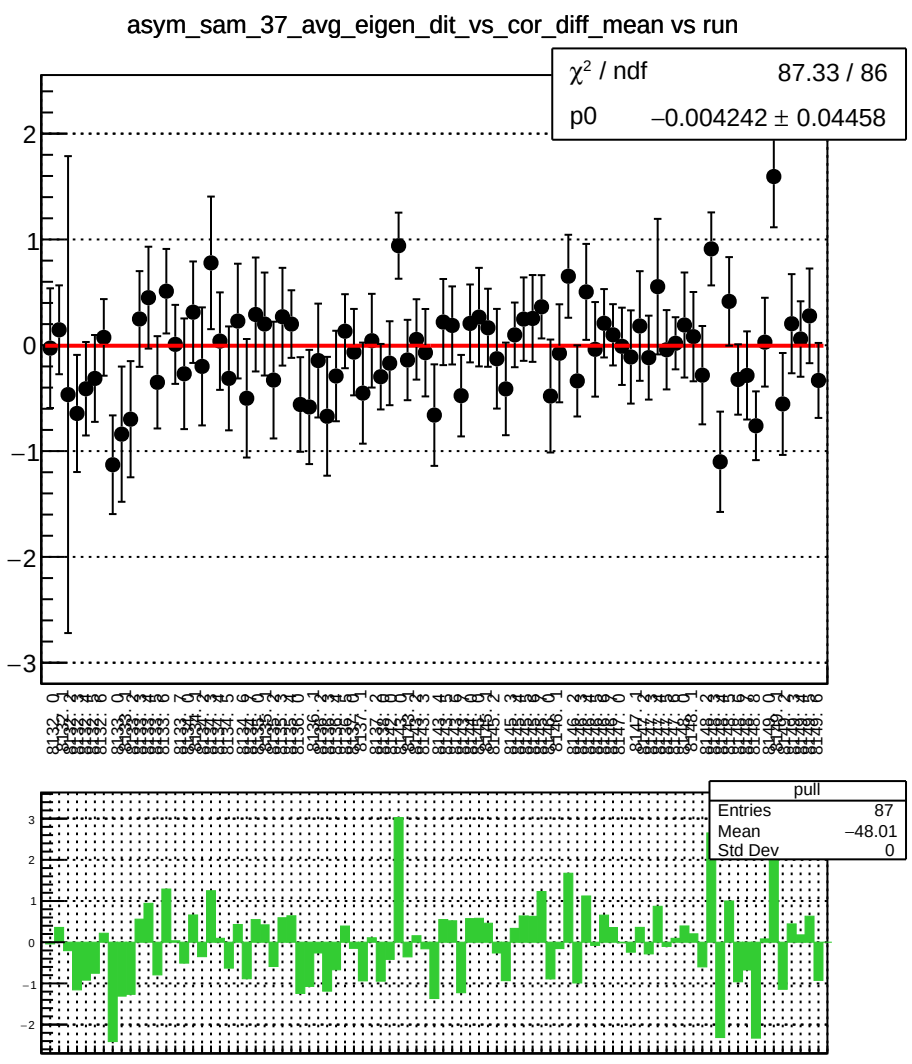

asym_sam_37_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.33 / 86
p0 −0.004252 ± 0.04458
pull
Entries 87
Mean −48.03
Std Dev 0

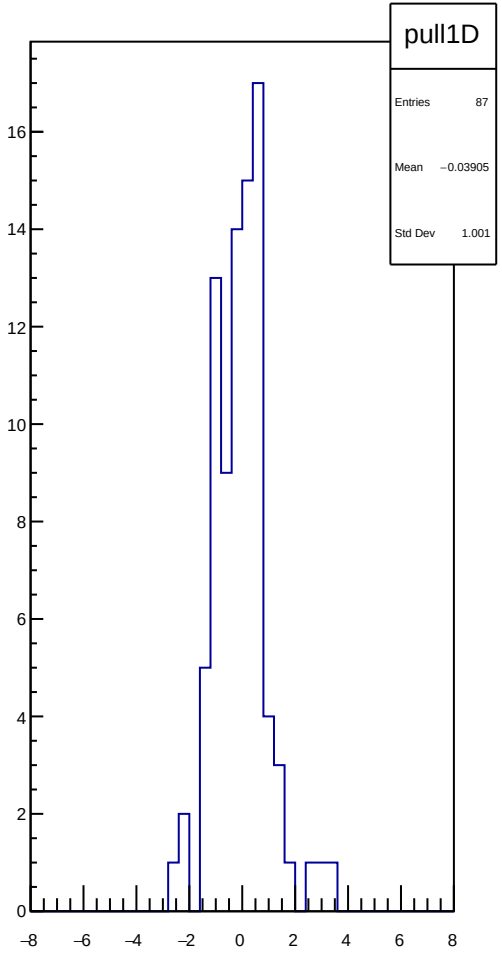

pull1D
Entries 87
Mean −0.03905
Std Dev 1.001

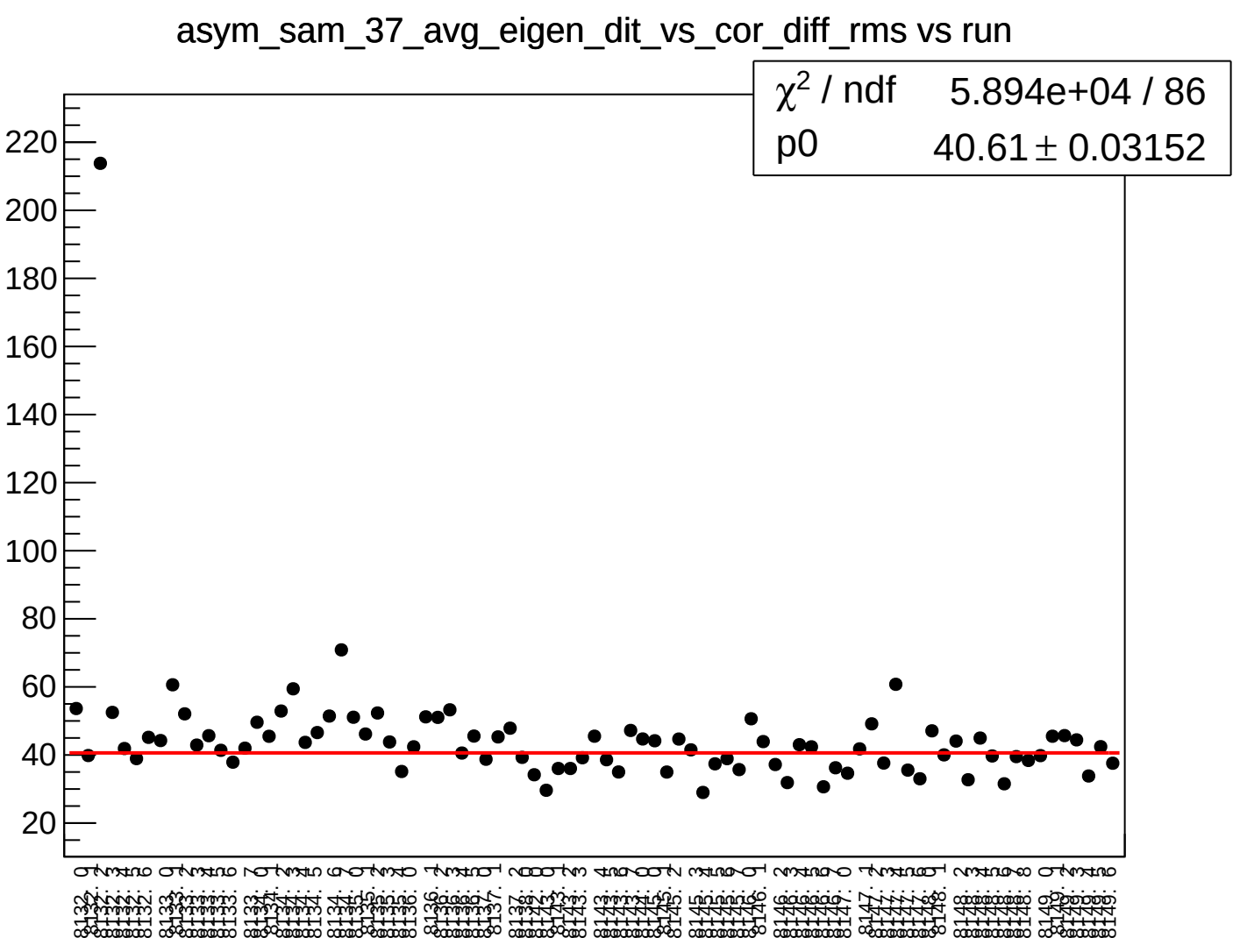

asym_sam_37_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.893e+04 / 86
p0 40.61 ± 0.03152
220
200
180
160
140
120
100
80
60
40
20

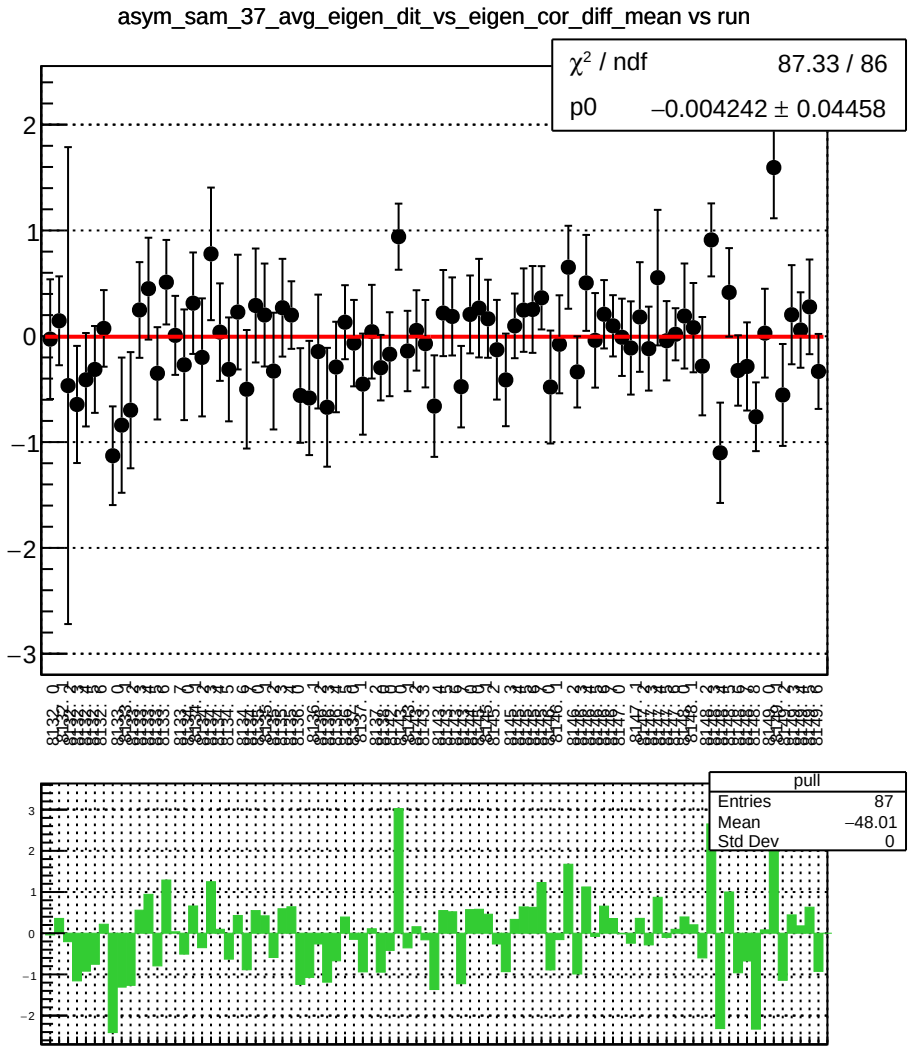

asym_sam_37_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 100.7 / 86
p0 3.957e−06 ± 3.362e−06
pull
Entries 87
Mean −28.24
Std Dev 0
pull1D
Entries 87
Mean 0.04644
Std Dev 1.075

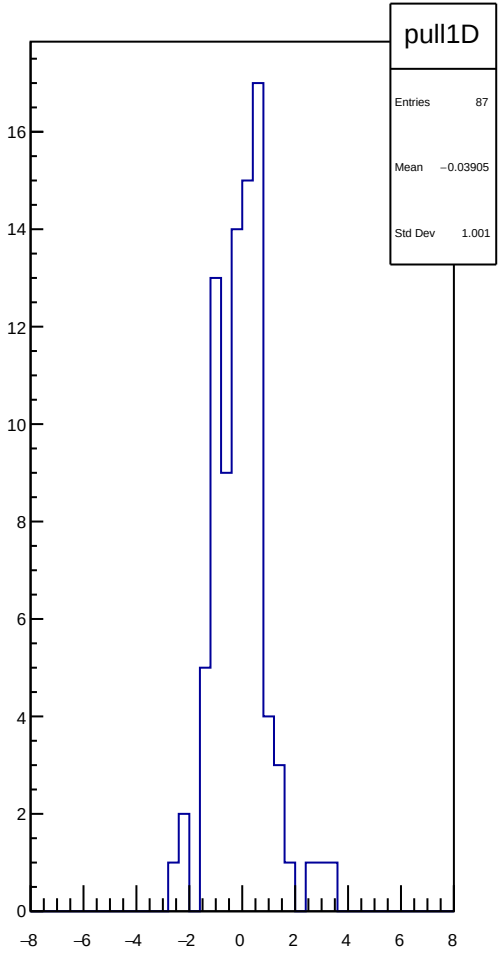

asym_sam_37_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.182e+05 / 86
p0 0.002913 ± 2.378e−06
0.008
0.007
0.006
0.005
0.004
0.003
0.002

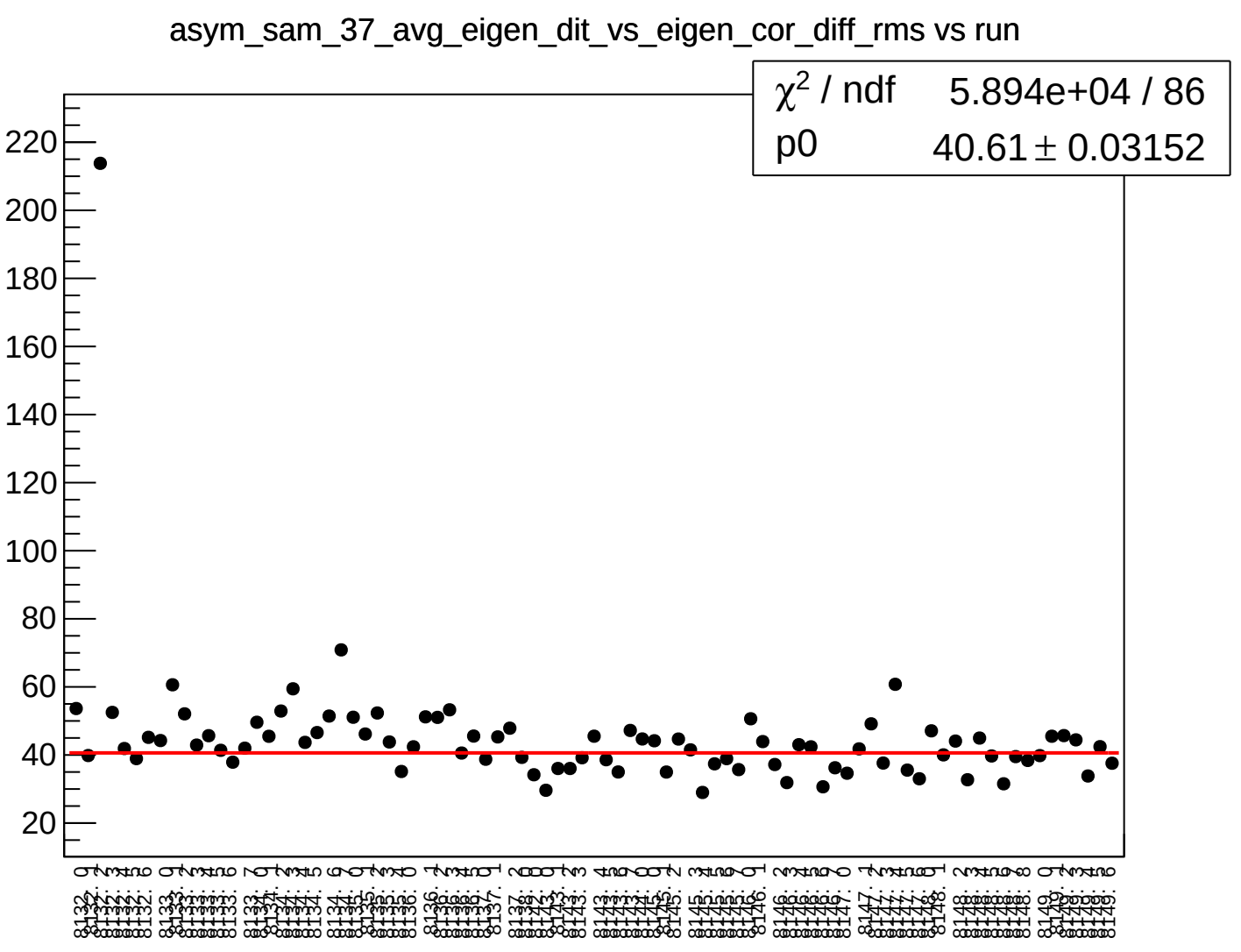

asym_sam_37_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.33 / 86
p0 −0.004242 ± 0.04458
pull
Entries 87
Mean −48.01
Std Dev 0

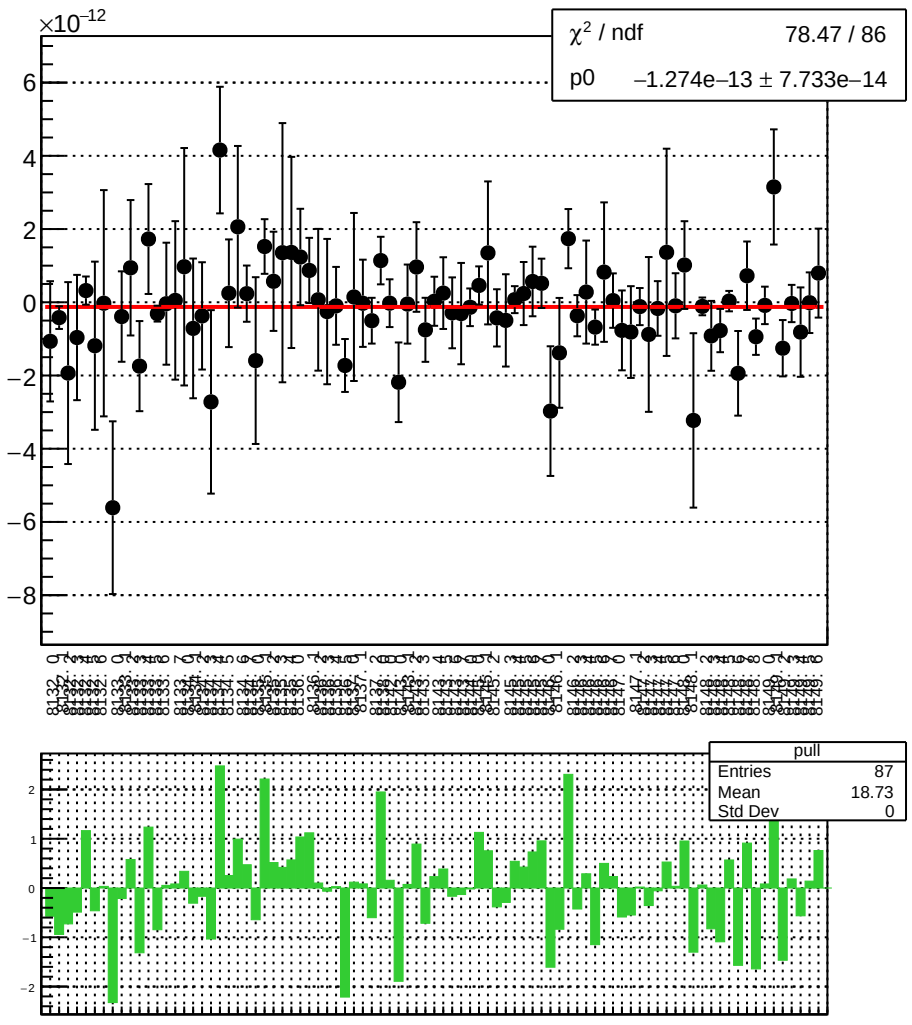

pull1D
Entries 87
Mean −0.03905
Std Dev 1.001

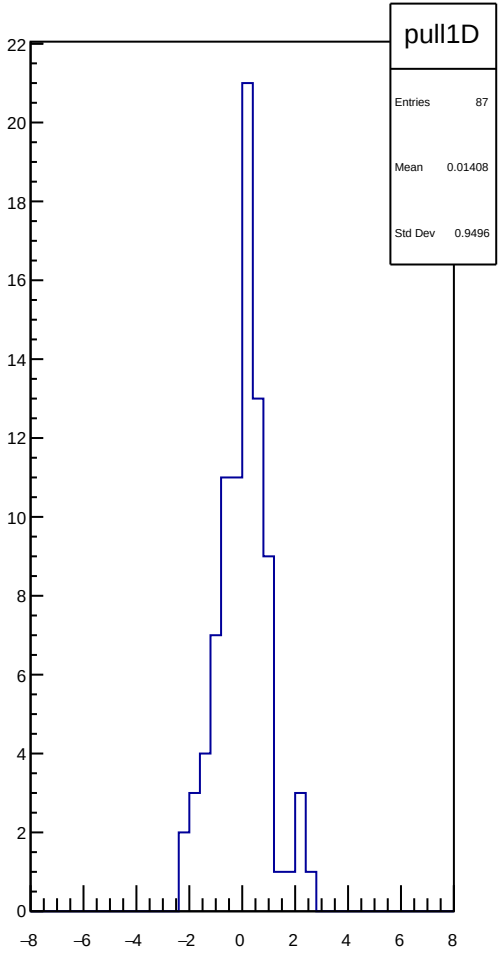

asym_sam_37_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.894e+04 / 86
p0 40.61 ± 0.03152
220
200
180
160
140
120
100
80
60
40
20

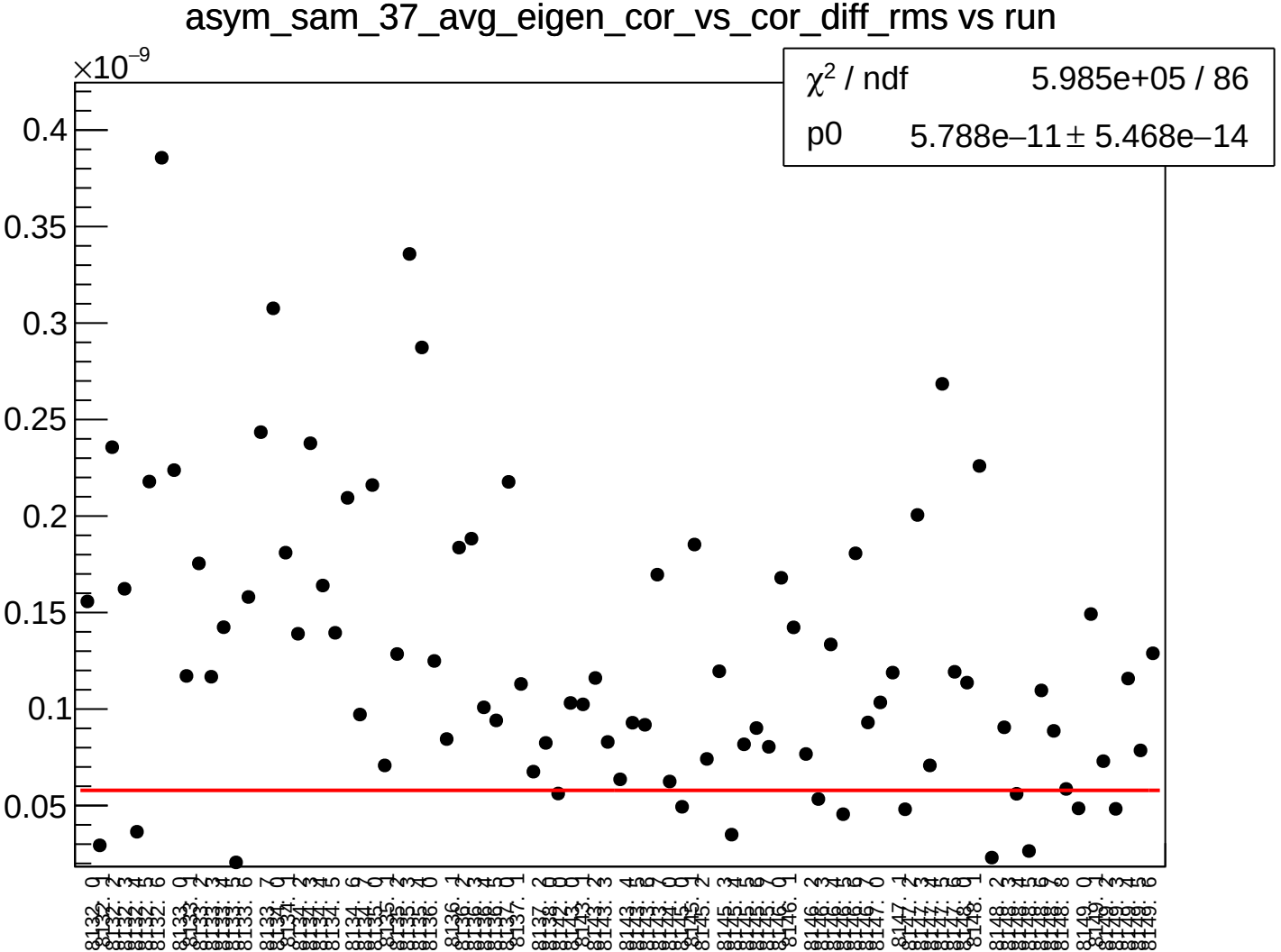

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.33 / 86
p0 −0.004242 ± 0.04458
pull
Entries 87
Mean −48.01
Std Dev 0

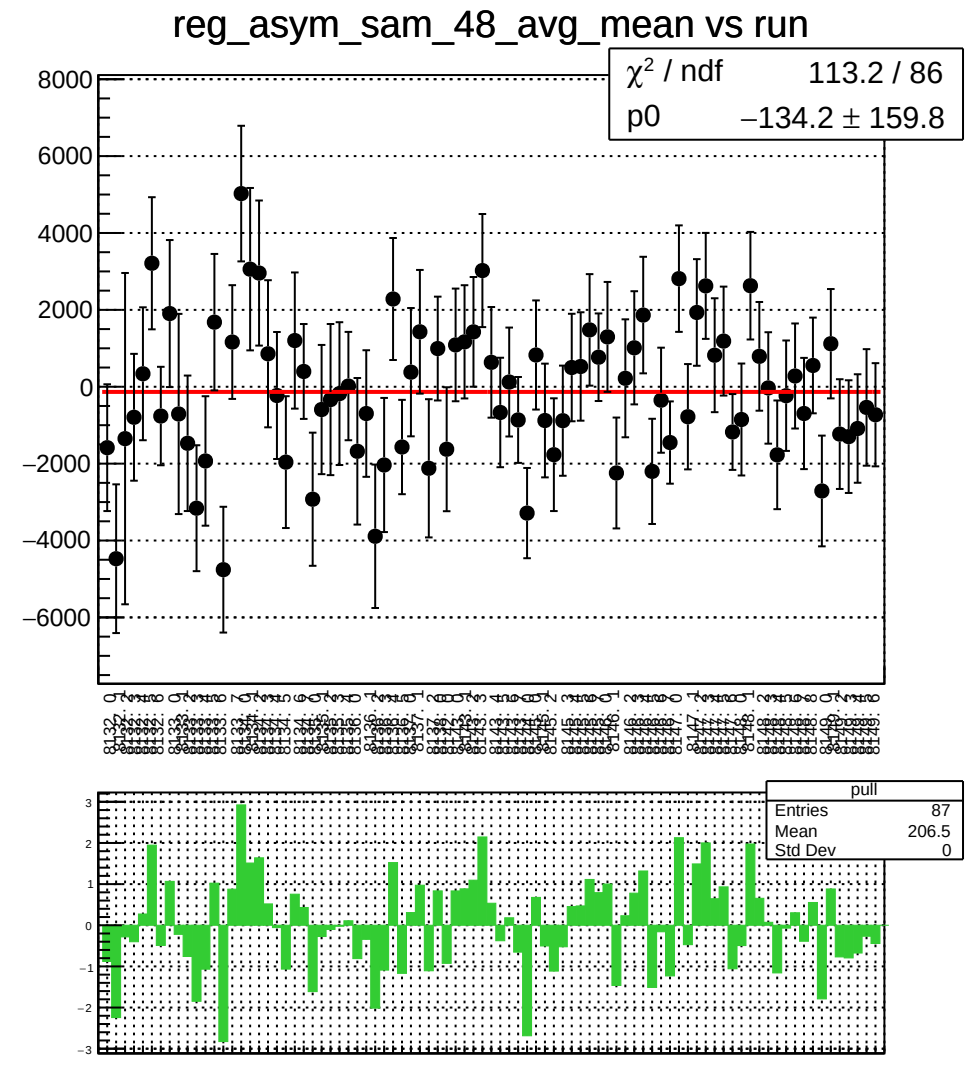

pull1D
Entries 87
Mean −0.03905
Std Dev 1.001

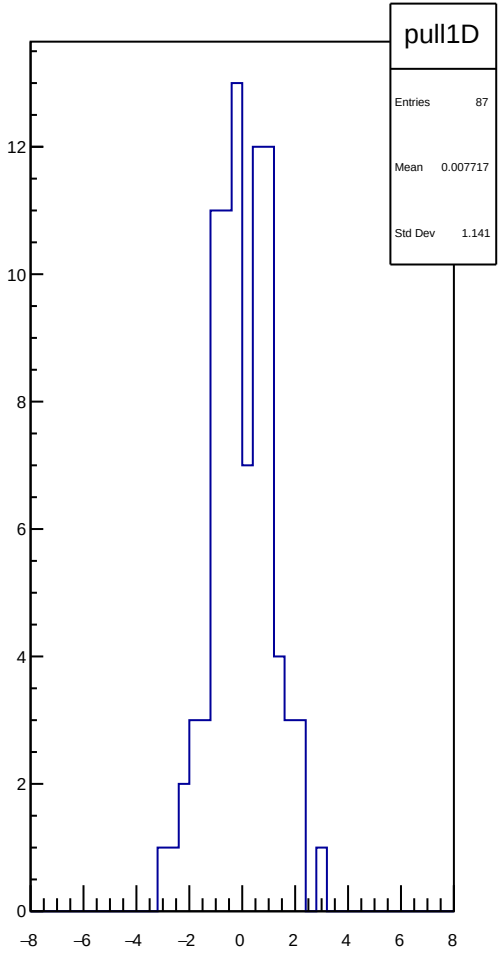

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.894e+04 / 86
p0 40.61 ± 0.03152
220
200
180
160
140
120
100
80
60
40
20

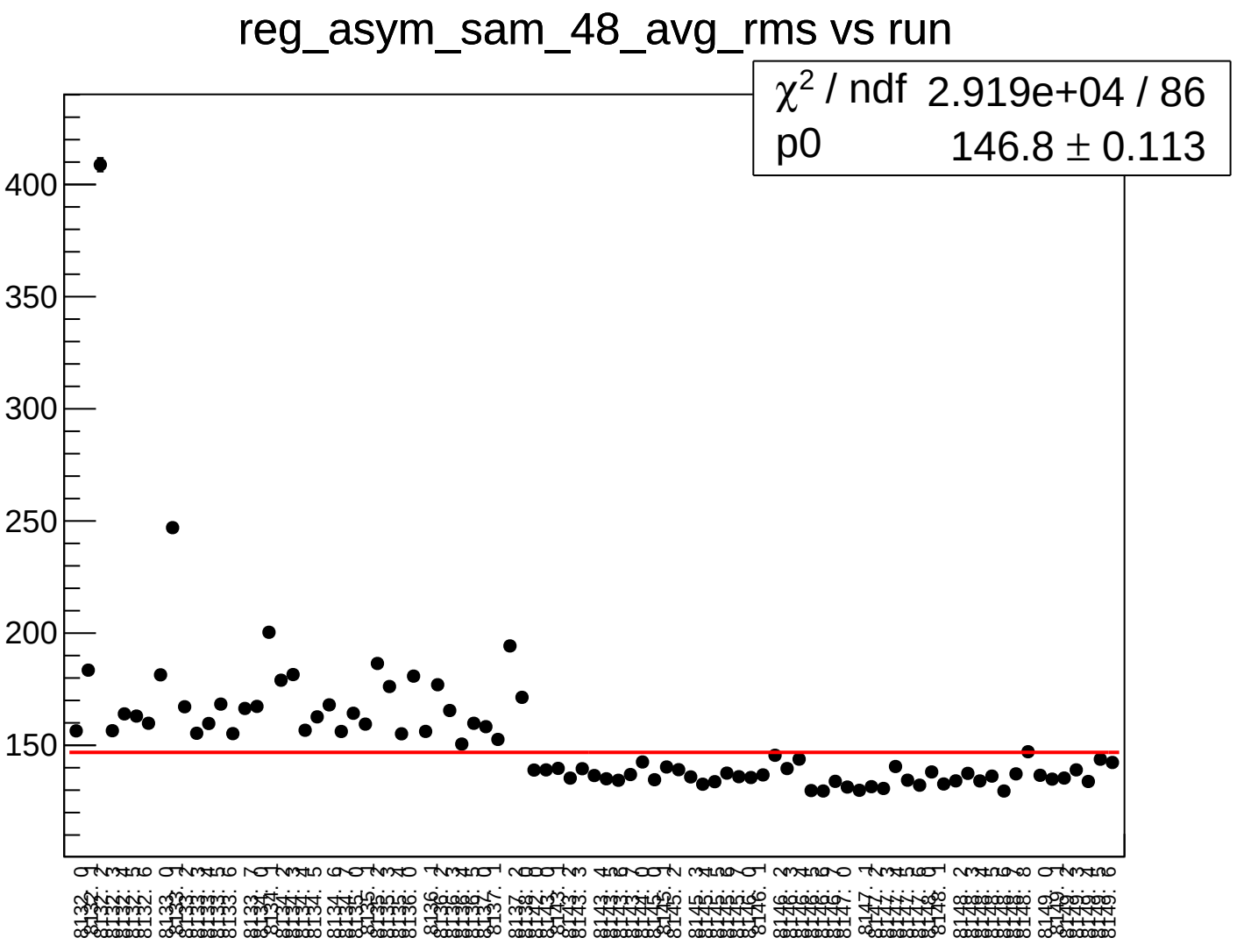

asym_sam_37_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.47 / 86
p0 −1.274e−13 ± 7.733e−14
pull
Entries 87
Mean 18.73
Std Dev 0

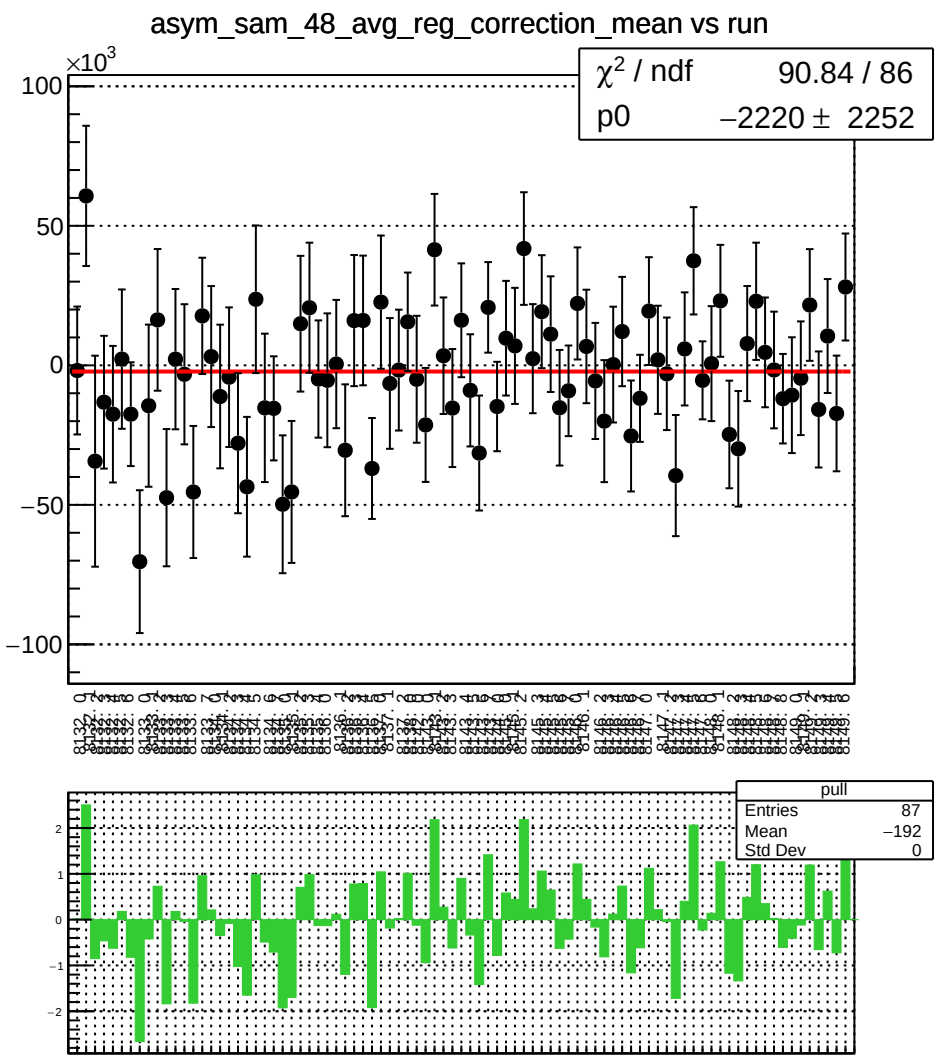

pull1D
Entries 87
Mean 0.01408
Std Dev 0.9496

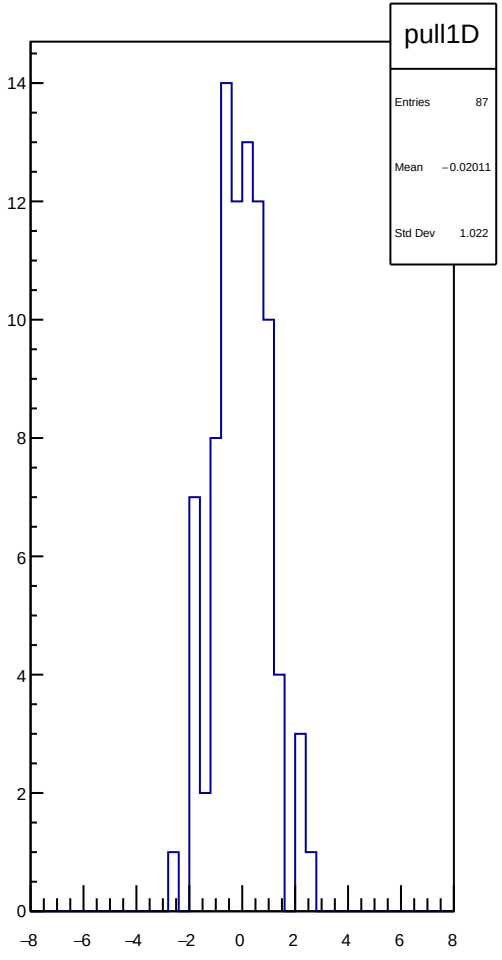

asym_sam_37_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.985e+05 / 86
p0 5.788e−11 ± 5.468e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

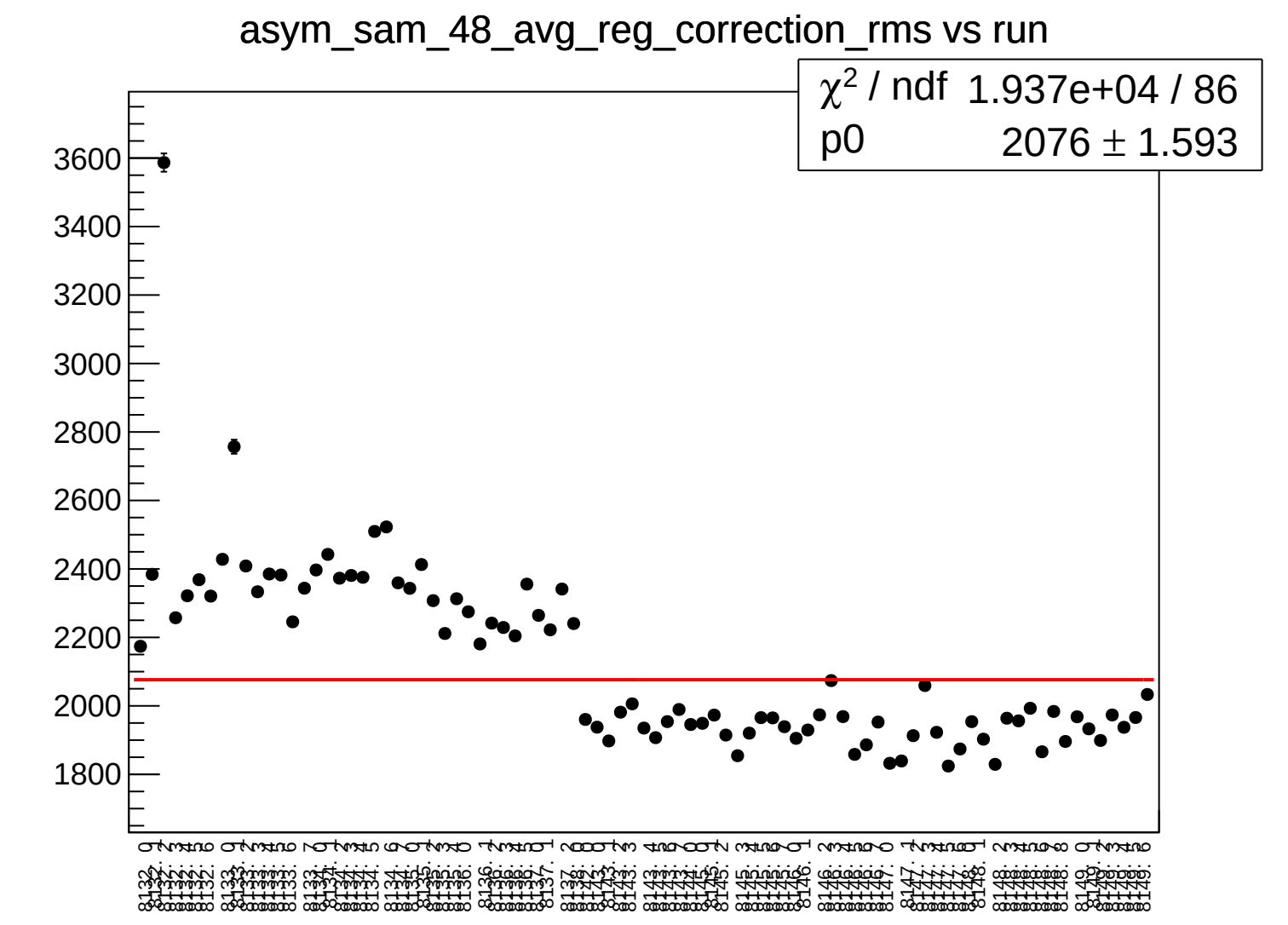

reg_asym_sam_48_avg_mean vs run
χ² / ndf 113.2 / 86
p0 −134.2 ± 159.8
pull
Entries 87
Mean 206.5
Std Dev 0

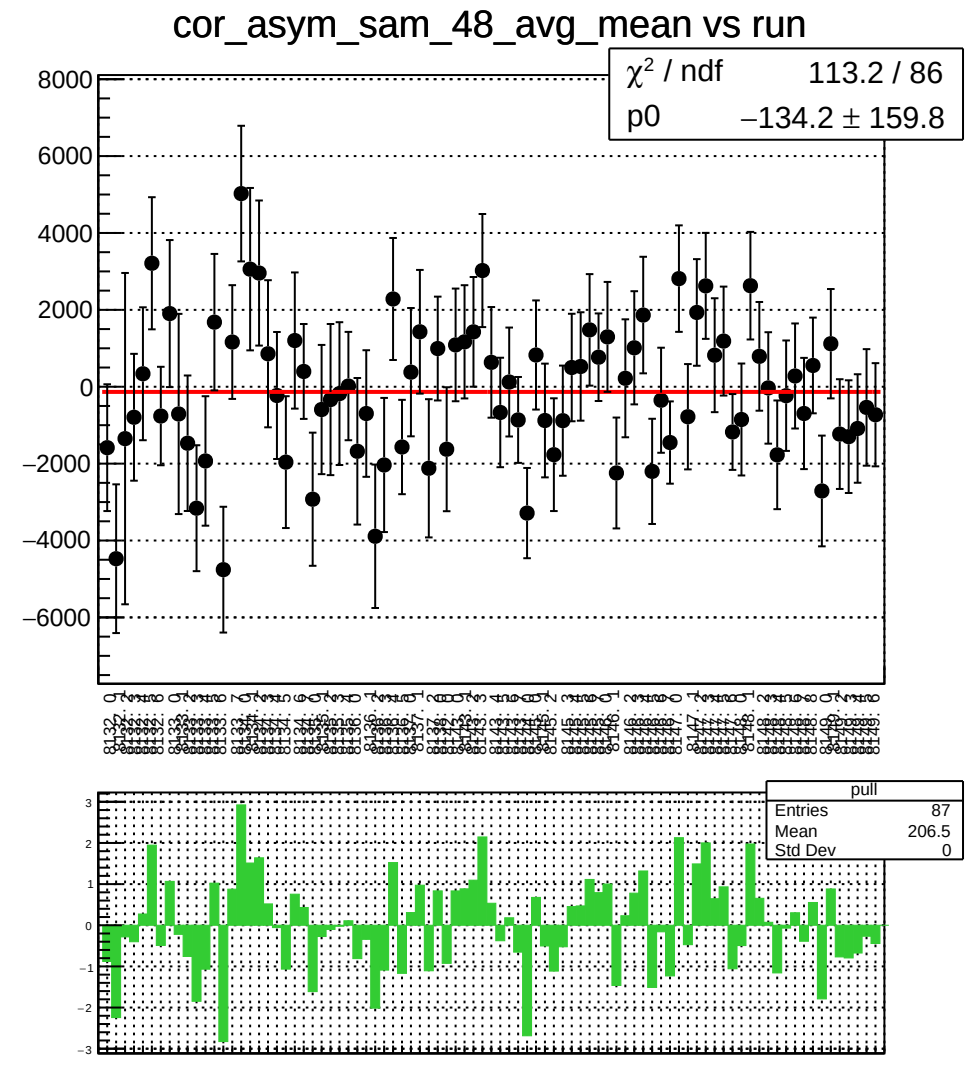

pull1D
Entries 87
Mean 0.007717
Std Dev 1.141

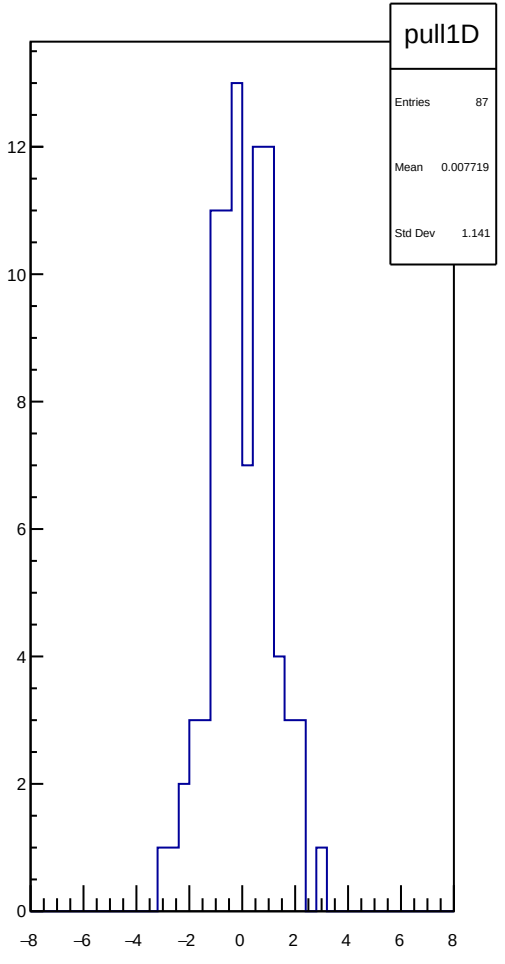

reg_asym_sam_48_avg_rms vs run
χ² / ndf 2.919e+04 / 86
p0 146.8 ± 0.113
400
350
300
250
200
150

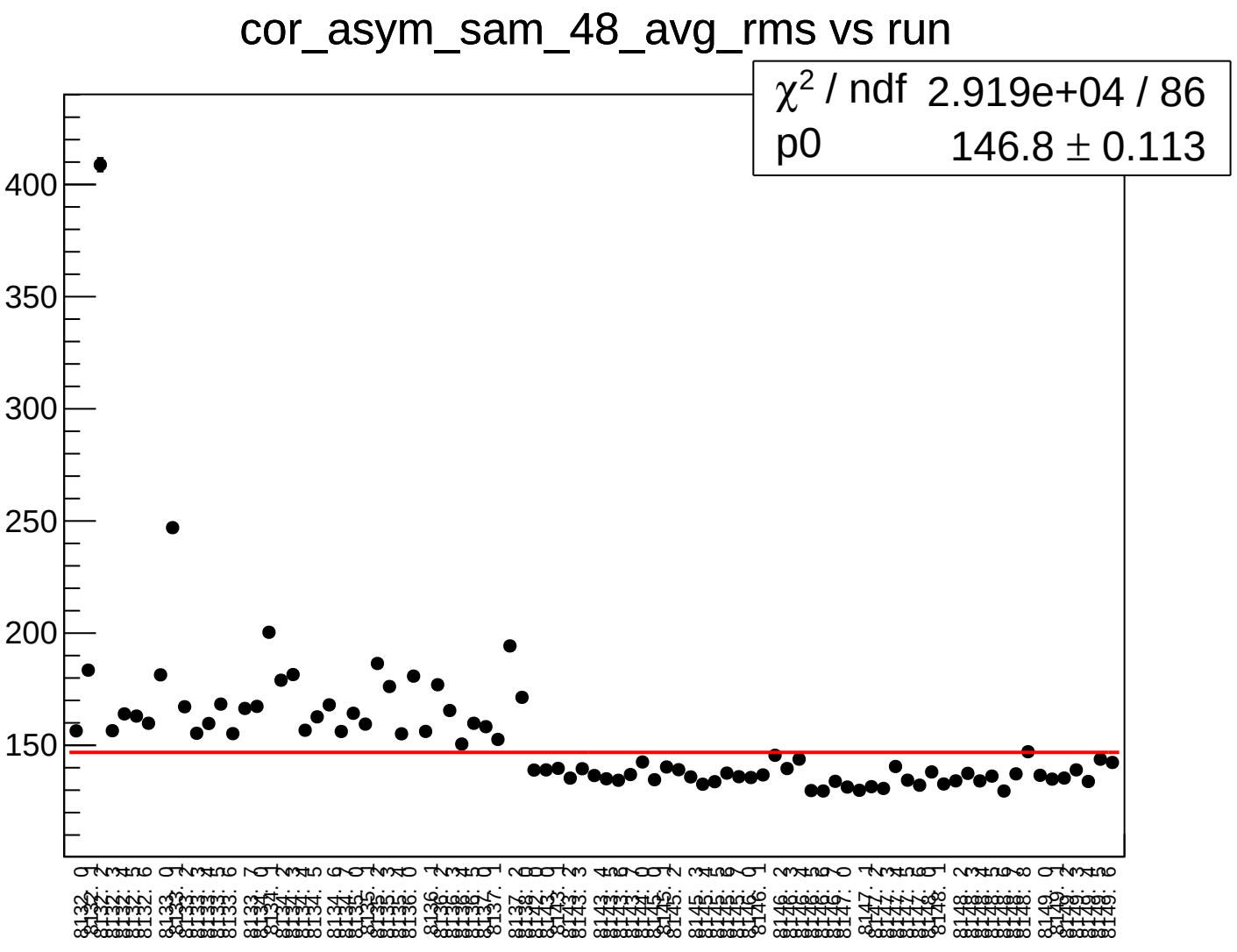

asym_sam_48_avg_reg_correction_mean vs run
×10^3
χ² / ndf 90.84 / 86
p0 −2220 ± 2252
100
50
0
−50
−100
pull
Entries 87
Mean −192
Std Dev 0
2
1
0
−1
−2

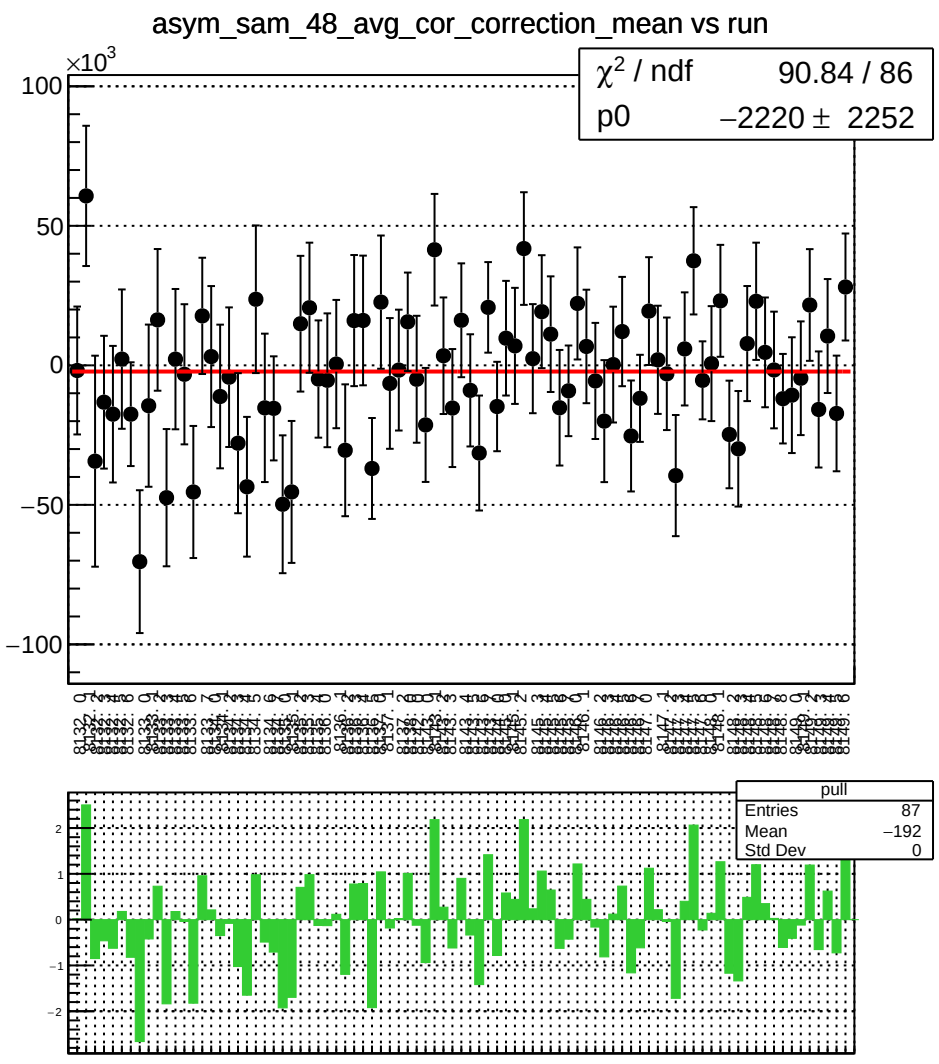

pull1D
Entries 87
Mean −0.02011
Std Dev 1.022
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

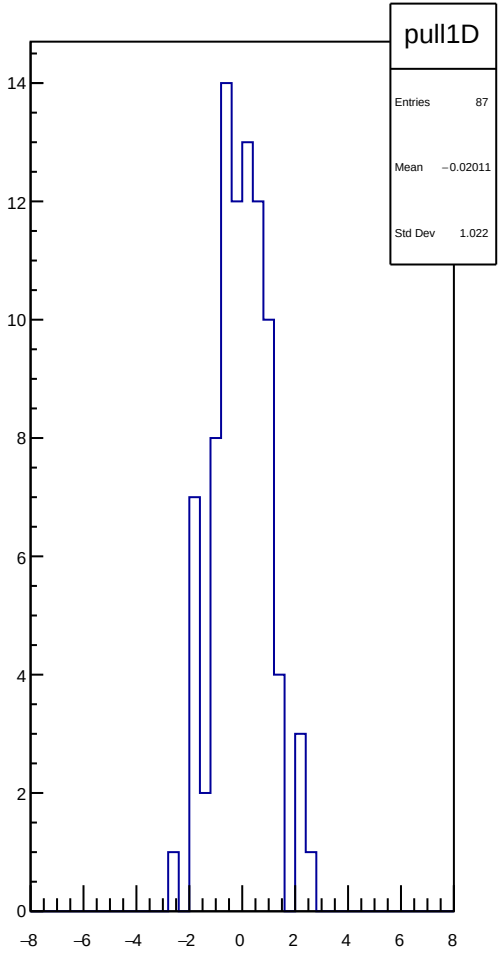

asym_sam_48_avg_reg_correction_rms vs run
χ² / ndf 1.937e+04 / 86
p0 2076 ± 1.593
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800

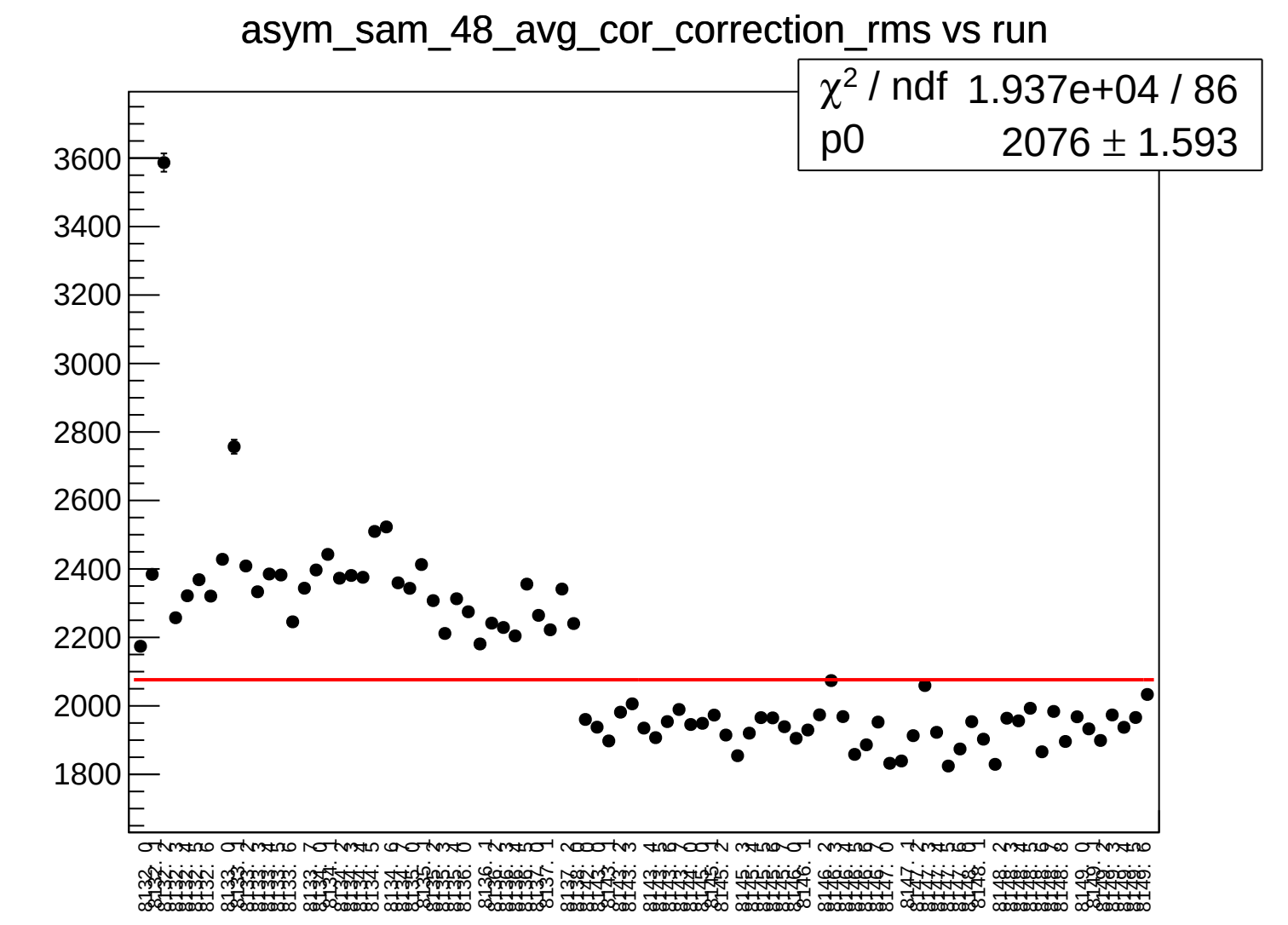

cor_asym_sam_48_avg_mean vs run
χ² / ndf 113.2 / 86
p0 −134.2 ± 159.8
pull
Entries 87
Mean 206.5
Std Dev 0

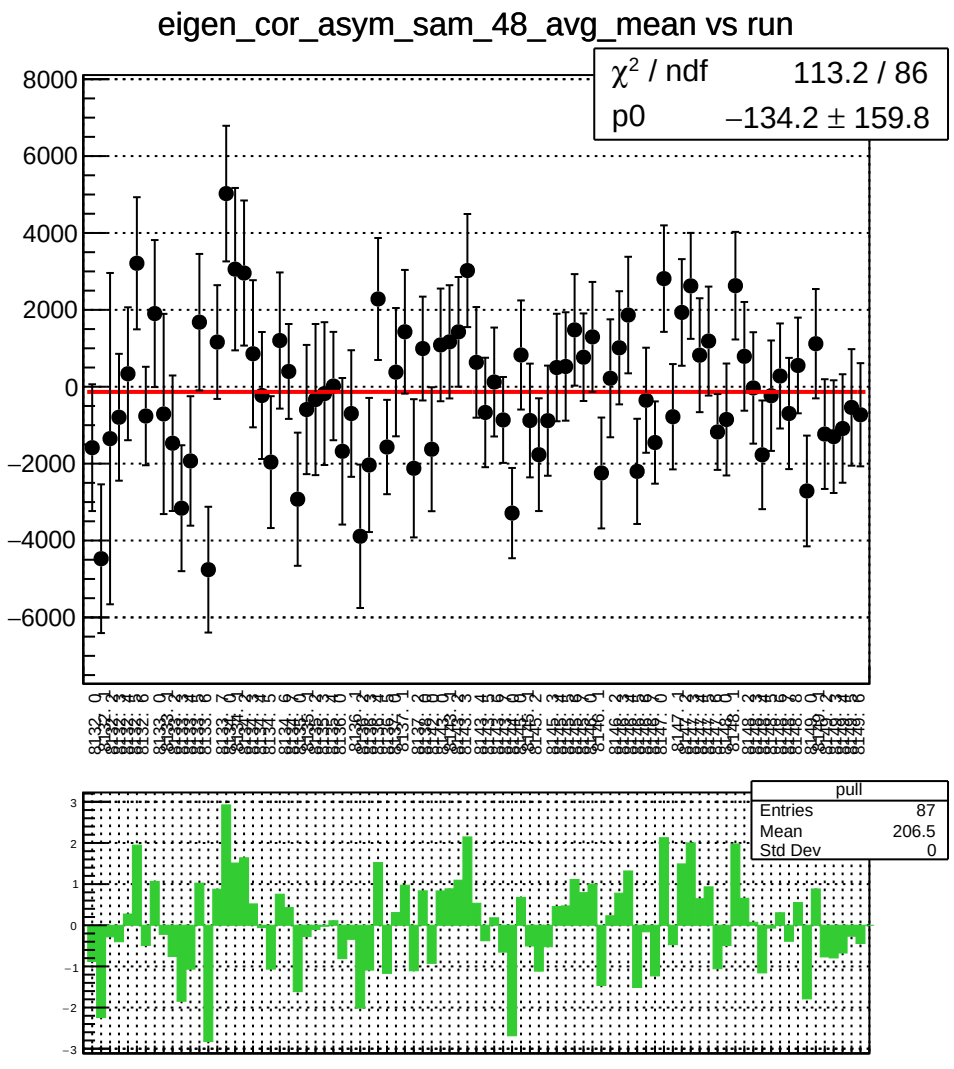

pull1D
Entries 87
Mean 0.007719
Std Dev 1.141

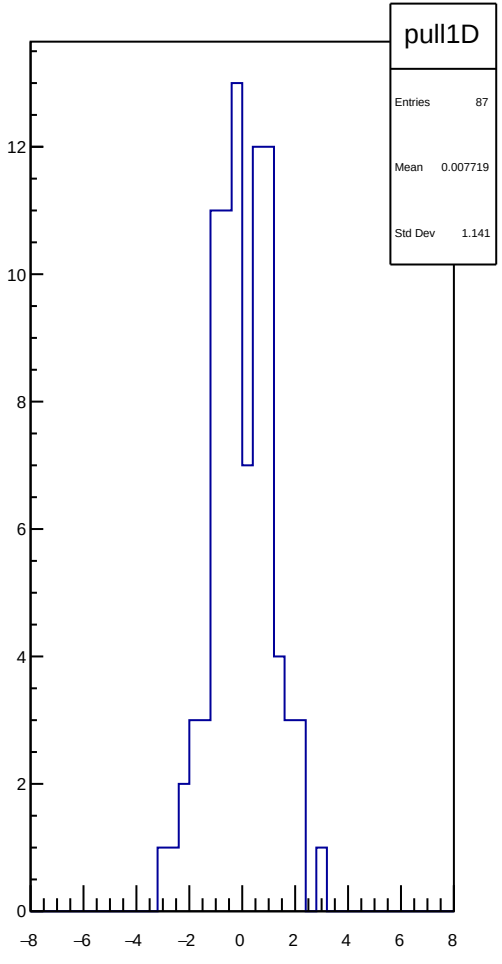

cor_asym_sam_48_avg_rms vs run
χ^2 / ndf 2.919e+04 / 86
p0 146.8 ± 0.113
400
350
300
250
200
150

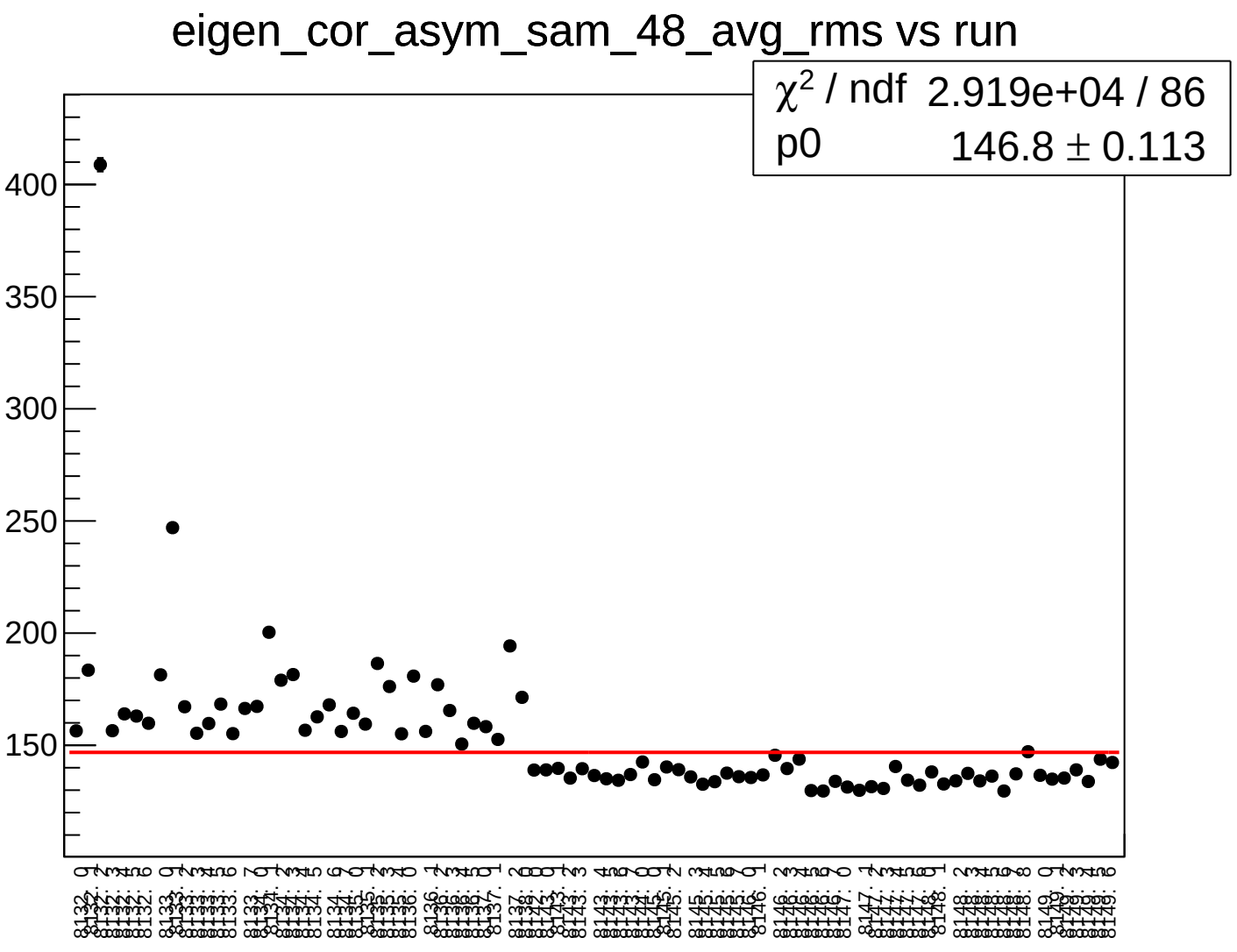

asym_sam_48_avg_cor_correction_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 90.84 / 86
p0 −2220 ± 2252
pull
Entries 87
Mean −192
Std Dev 0
2
1
0
−1
−2

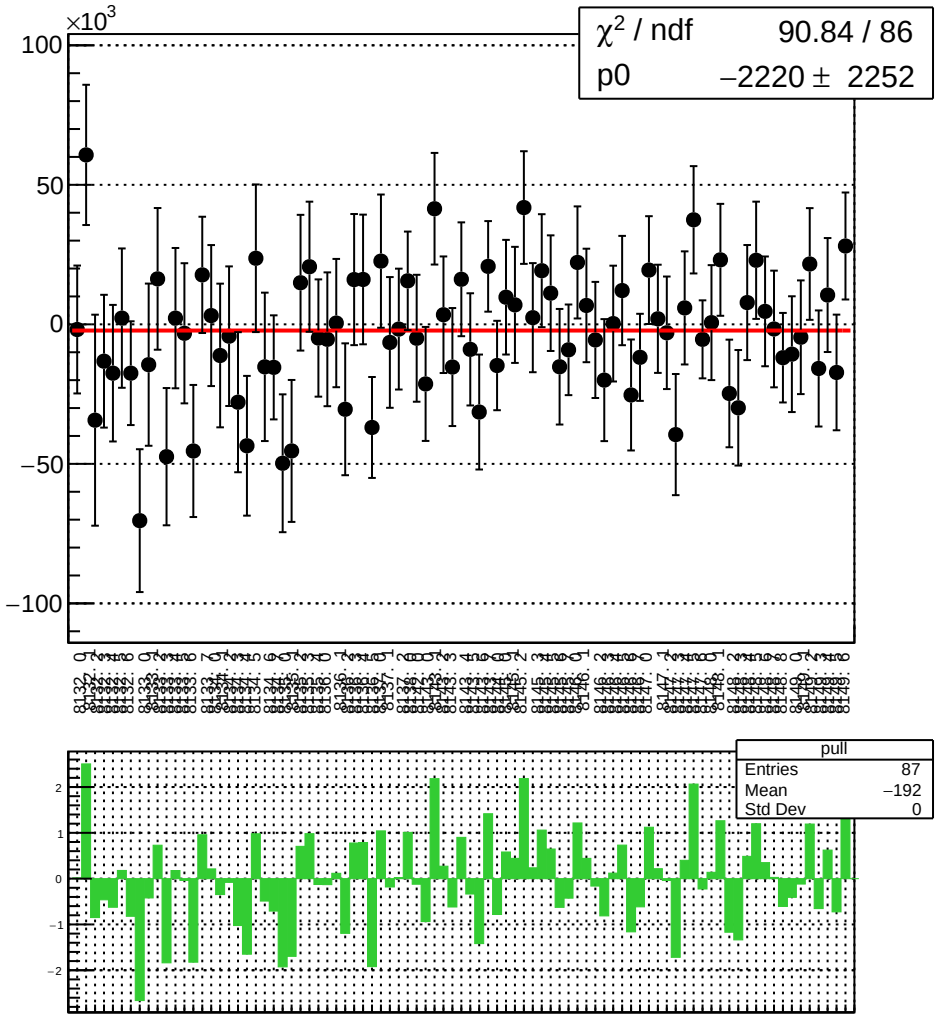

pull1D
Entries 87
Mean −0.02011
Std Dev 1.022
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

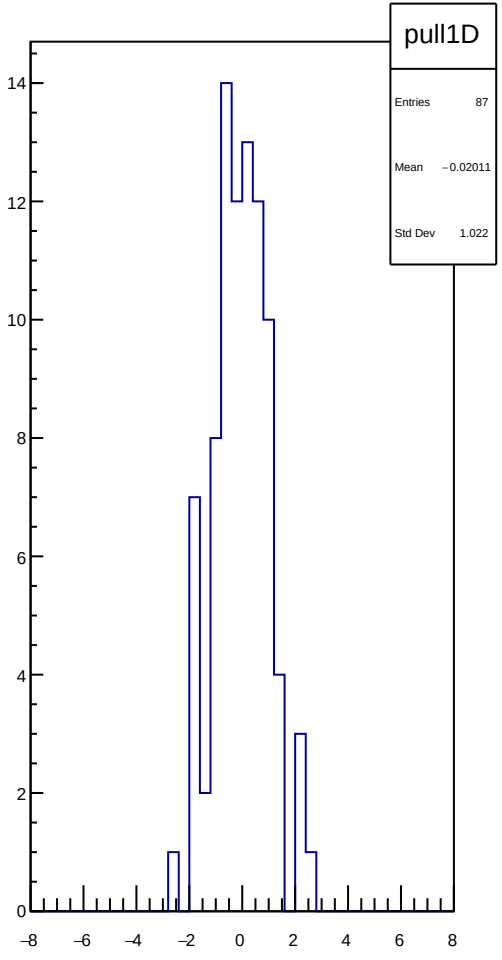

asym_sam_48_avg_cor_correction_rms vs run
χ² / ndf 1.937e+04 / 86
p0 2076 ± 1.593
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800

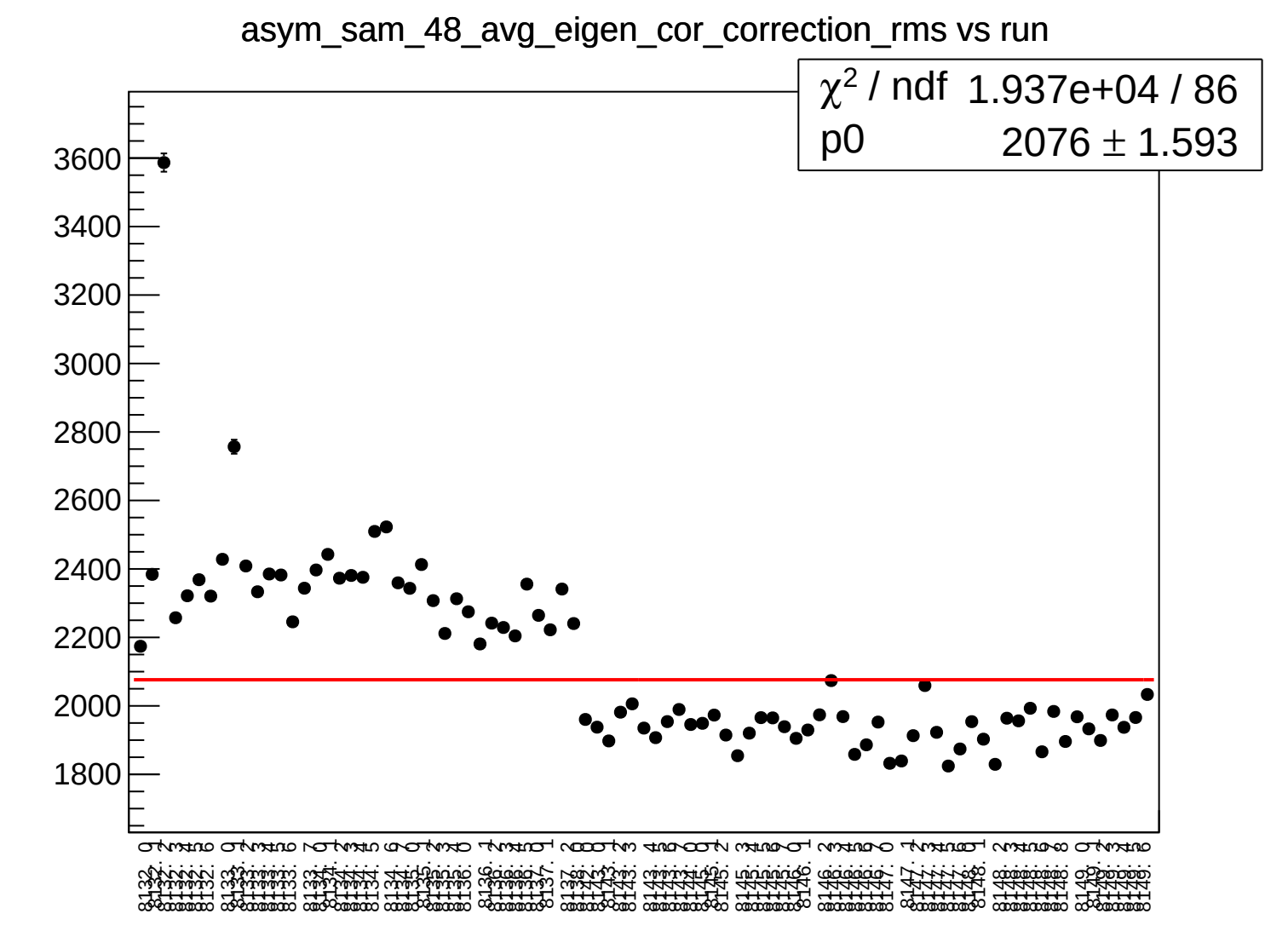

eigen_cor_asym_sam_48_avg_mean vs run
χ² / ndf 113.2 / 86
p0 −134.2 ± 159.8
pull
Entries 87
Mean 206.5
Std Dev 0

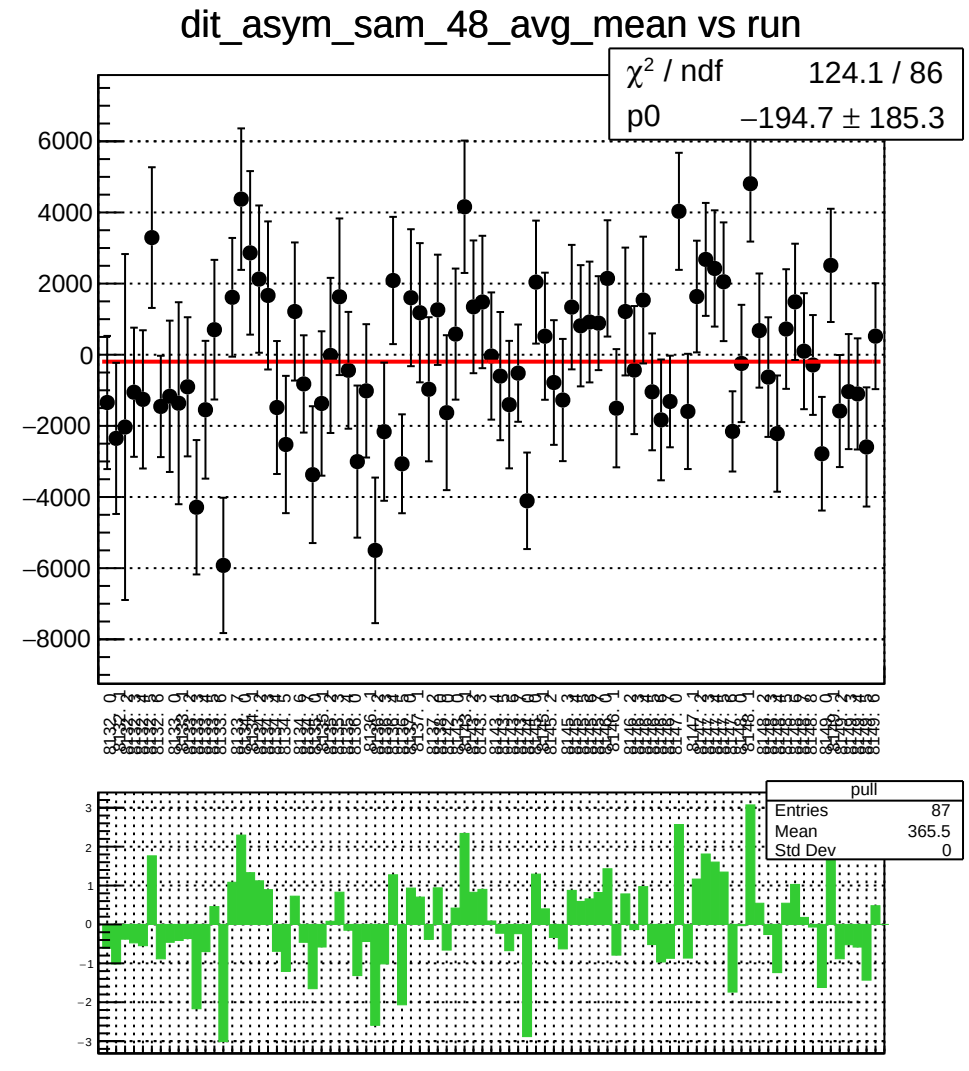

pull1D
Entries 87
Mean 0.007719
Std Dev 1.141

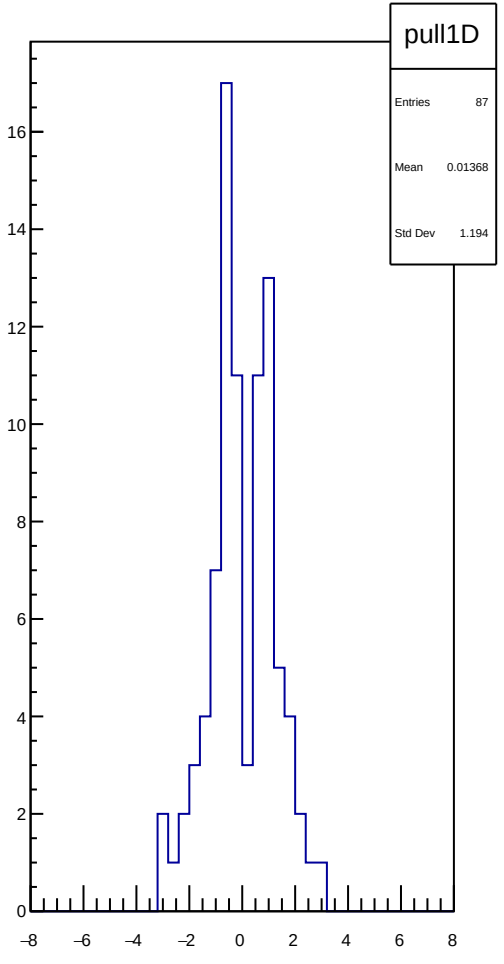

eigen_cor_asym_sam_48_avg_rms vs run
χ² / ndf 2.919e+04 / 86
p0 146.8 ± 0.113
400
350
300
250
200
150

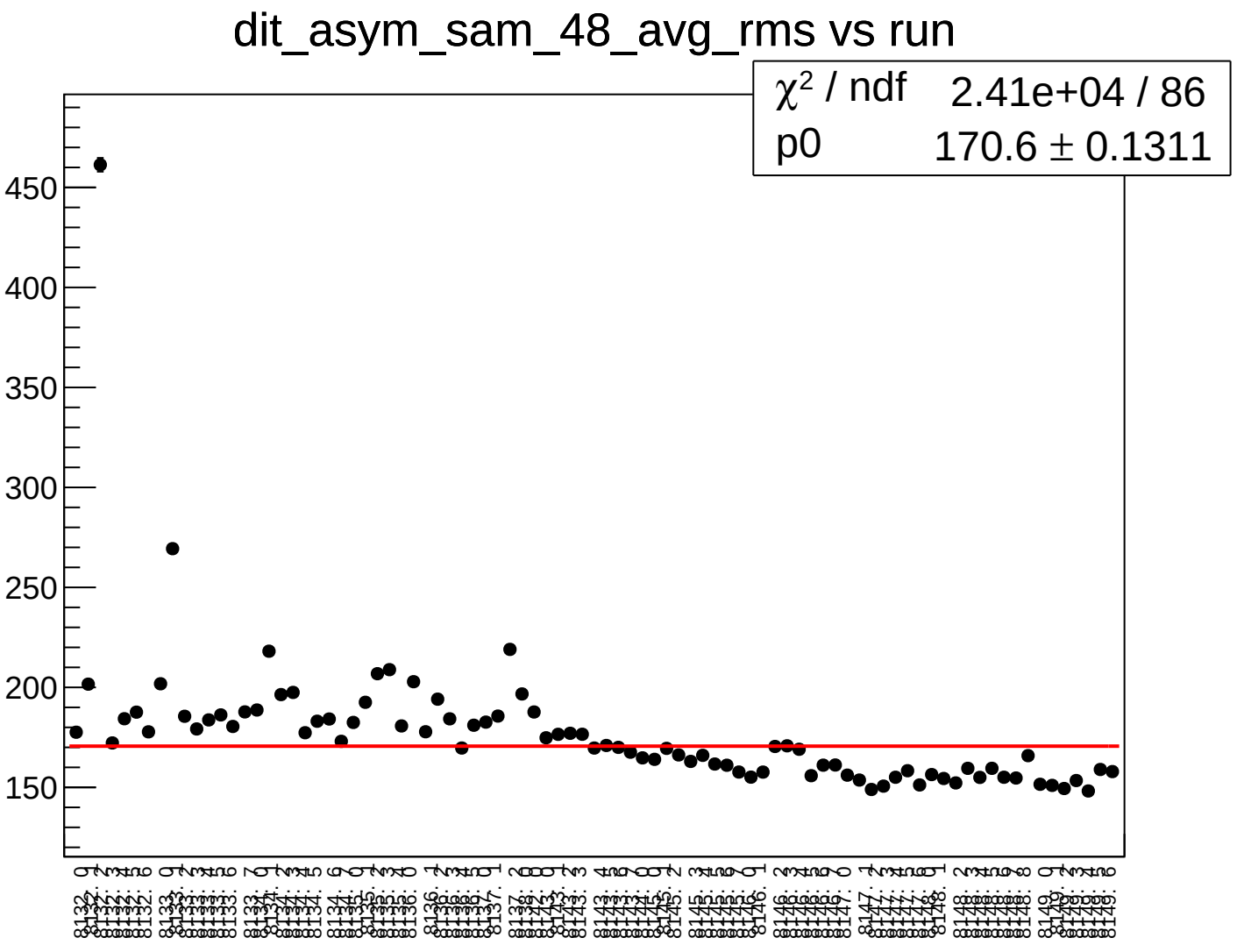

asym_sam_48_avg_eigen_cor_correction_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 90.84 / 86
p0 −2220 ± 2252
pull
Entries 87
Mean −192
Std Dev 0
2
1
0
−1
−2

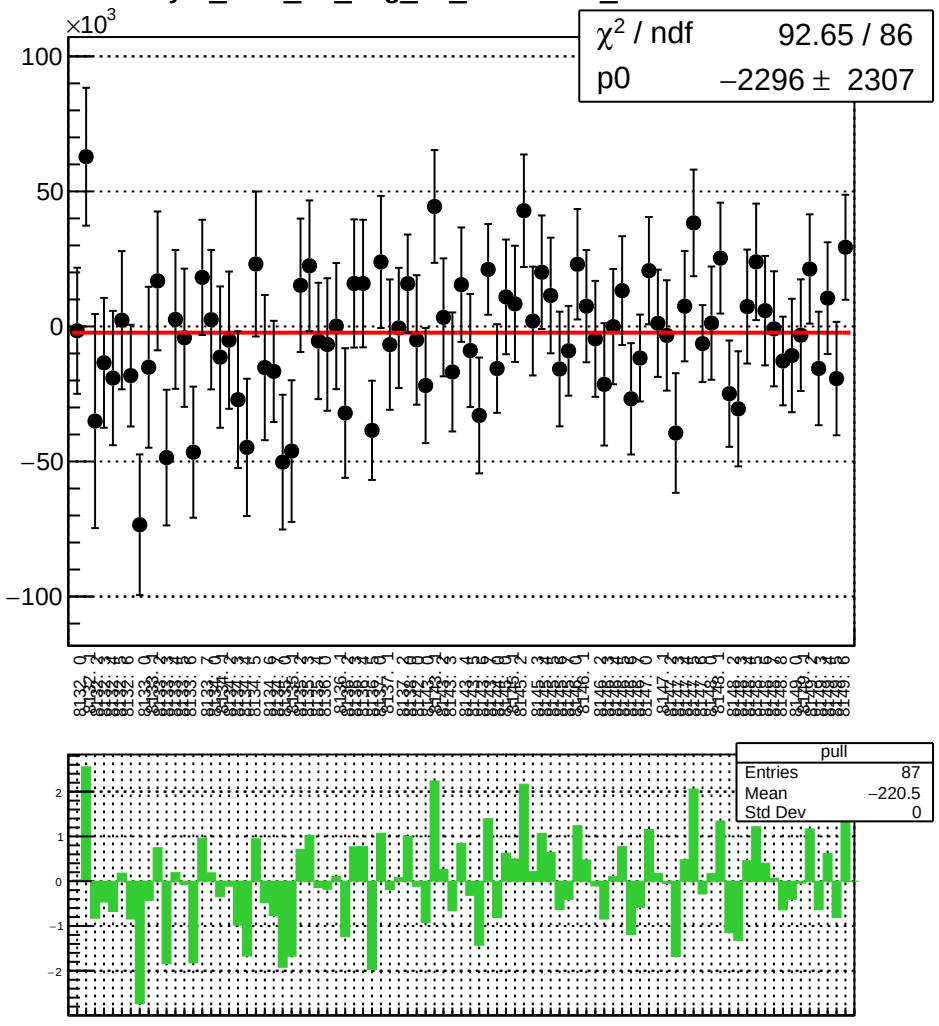

pull1D
Entries 87
Mean −0.02011
Std Dev 1.022
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

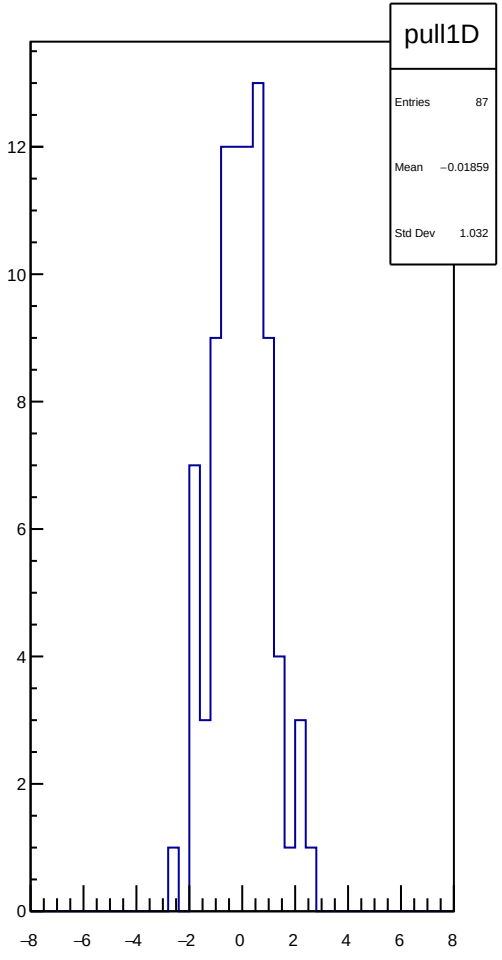

asym_sam_48_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.937e+04 / 86
p0 2076 ± 1.593
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800

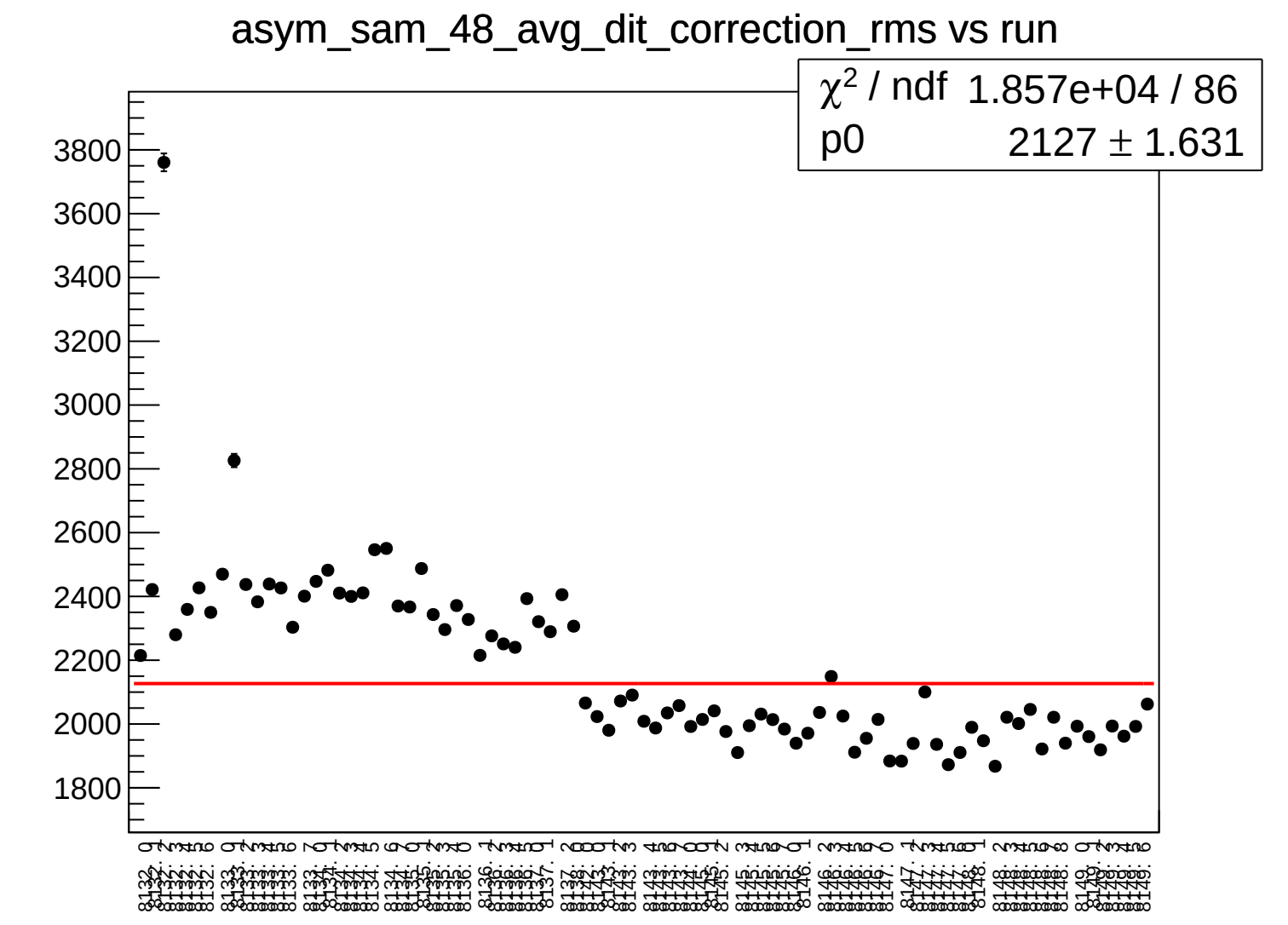

dit_asym_sam_48_avg_mean vs run
χ² / ndf 124.1 / 86
p0 −194.7 ± 185.3
pull
Entries 87
Mean 365.5
Std Dev 0

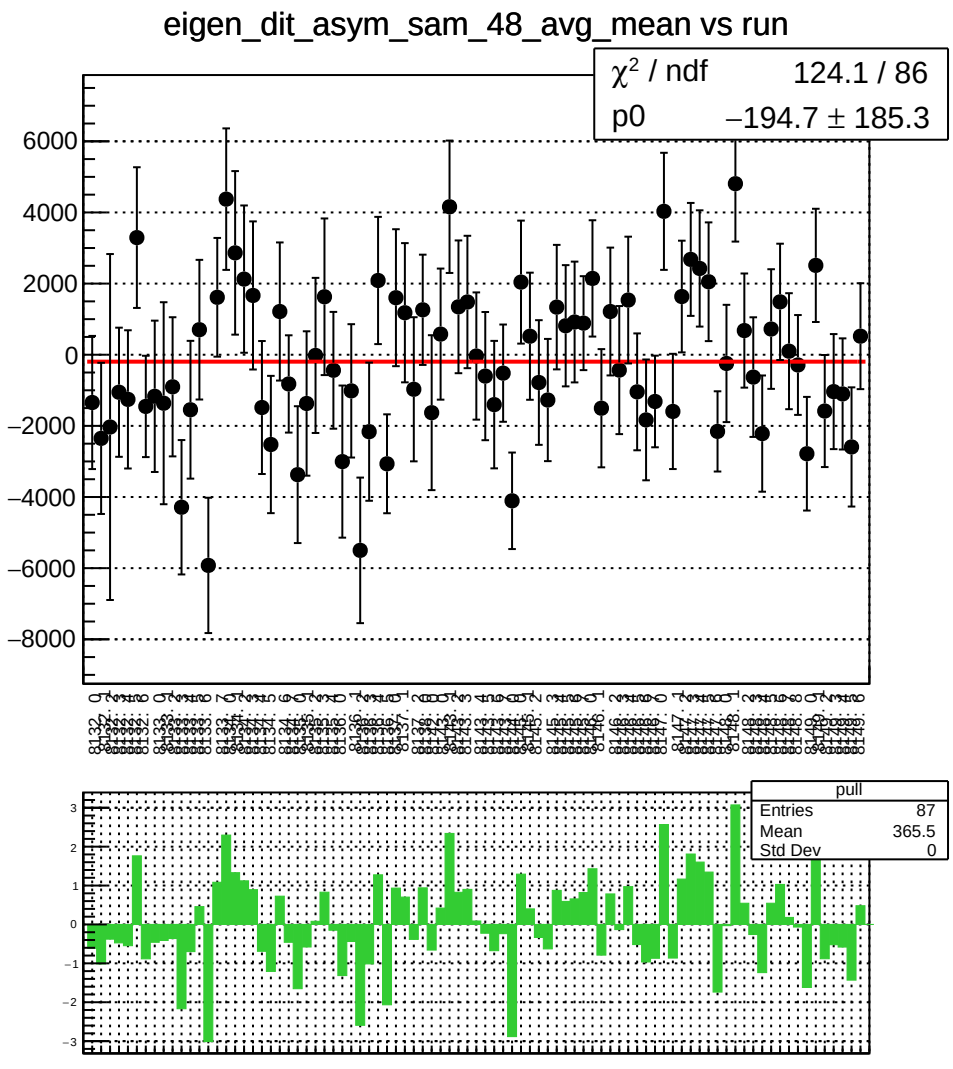

pull1D
Entries 87
Mean 0.01368
Std Dev 1.194

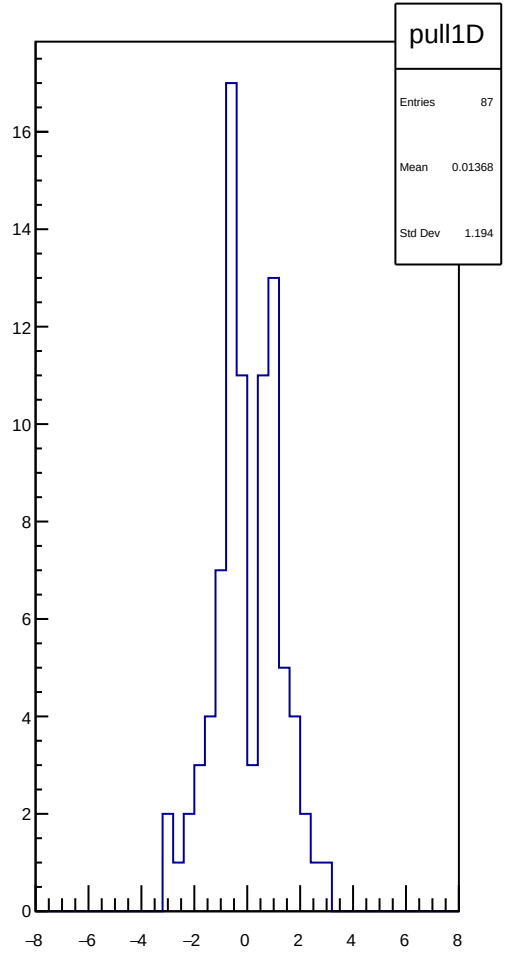

dit_asym_sam_48_avg_rms vs run
χ² / ndf 2.41e+04 / 86
p0 170.6 ± 0.1311
450
400
350
300
250
200
150

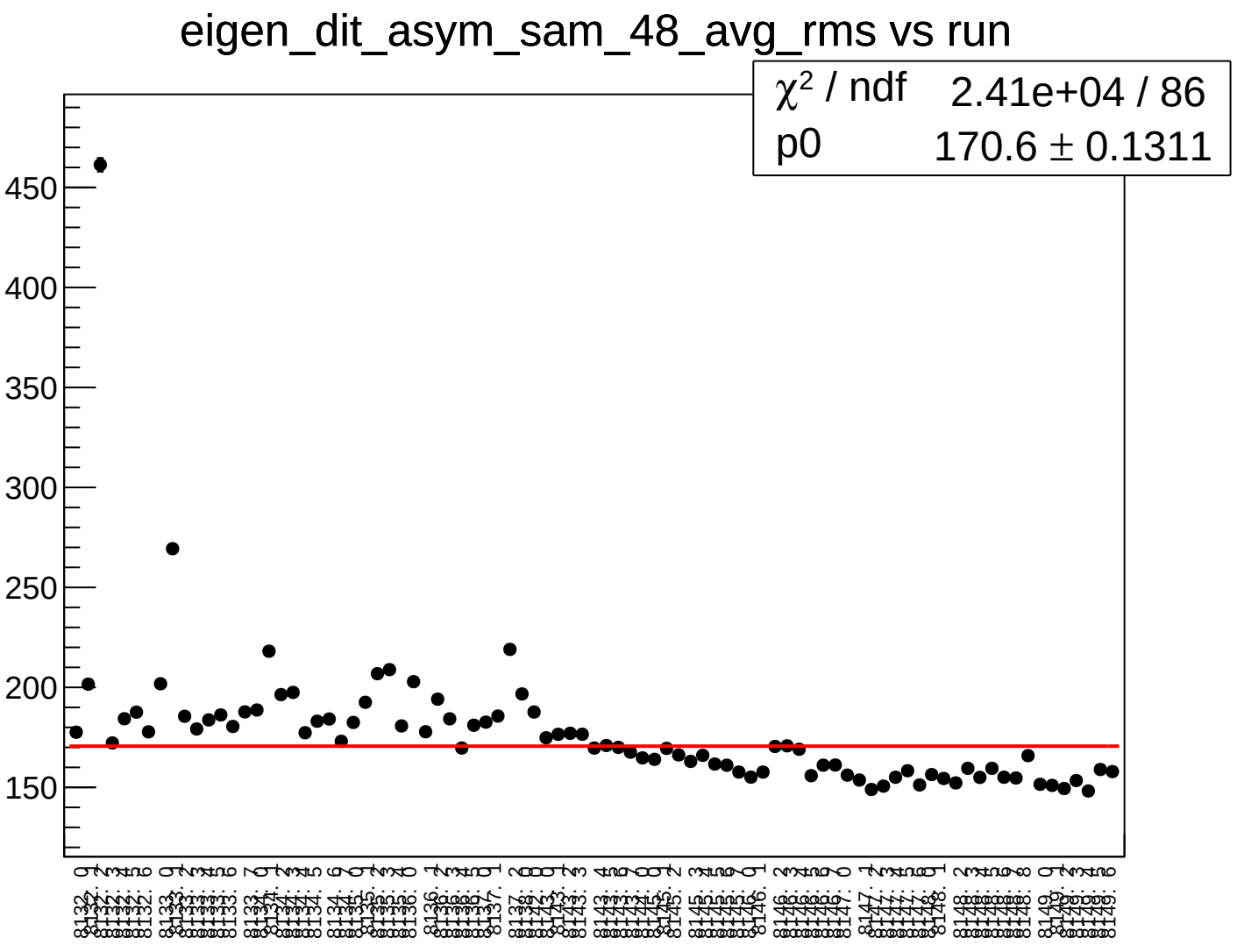

asym_sam_48_avg_dit_correction_mean vs run
×10^3
χ² / ndf 92.65 / 86
p0 −2296 ± 2307
100
50
0
−50
−100
pull
Entries 87
Mean −220.5
Std Dev 0
2
1
0
−1
−2

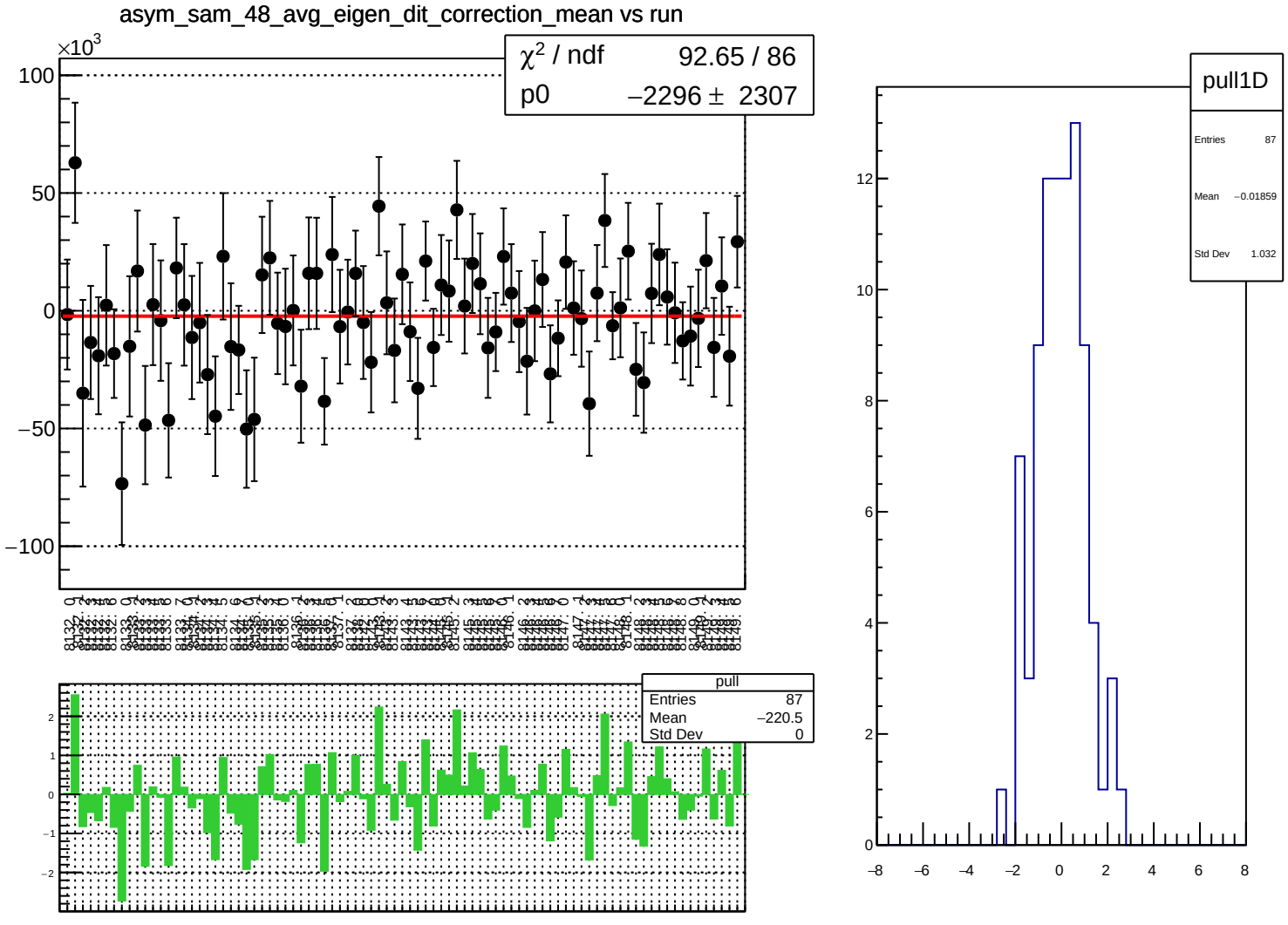

pull1D
Entries 87
Mean −0.01859
Std Dev 1.032
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

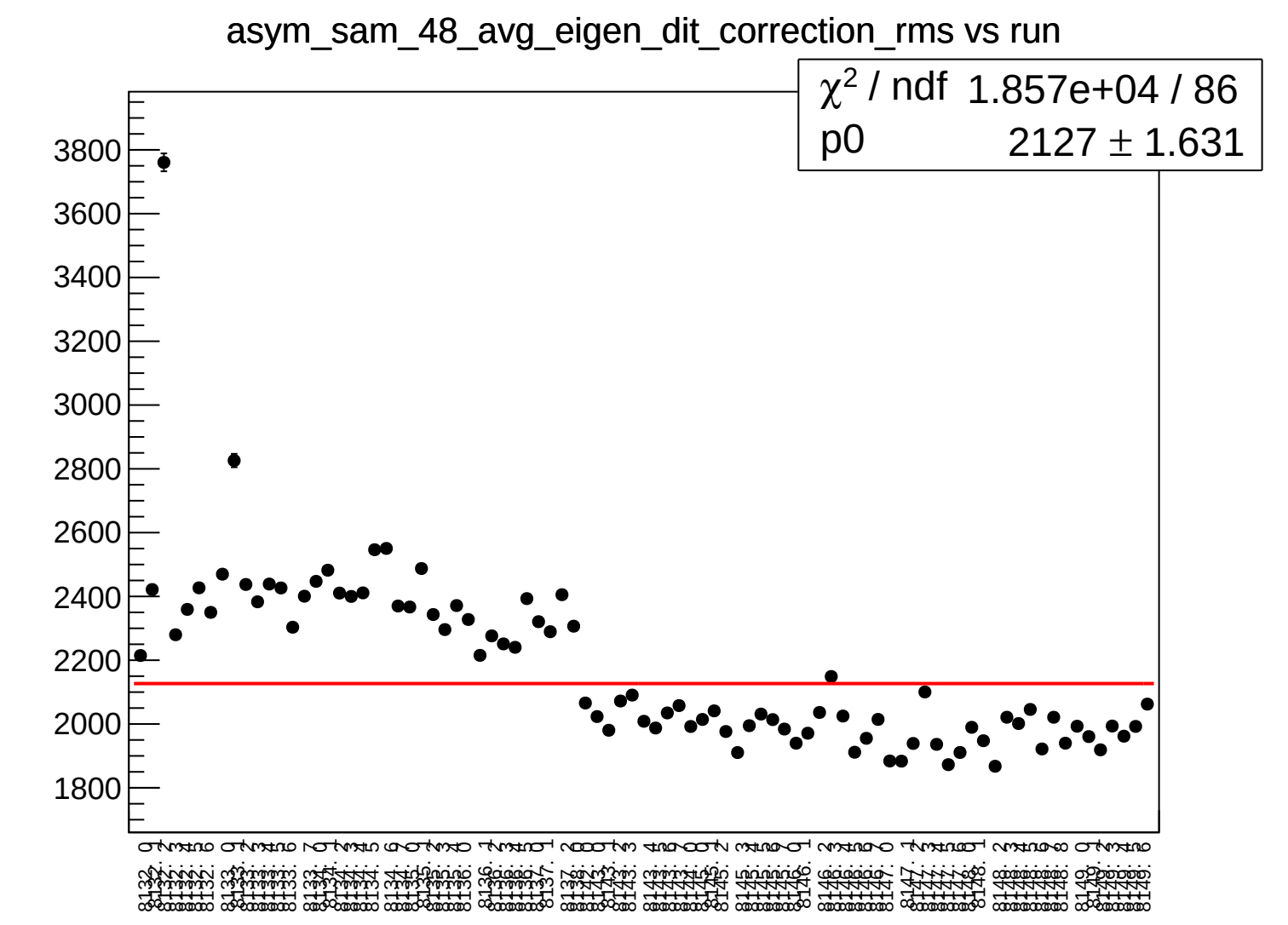

asym_sam_48_avg_dit_correction_rms vs run
χ² / ndf 1.857e+04 / 86
p0 2127 ± 1.631
3800
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800

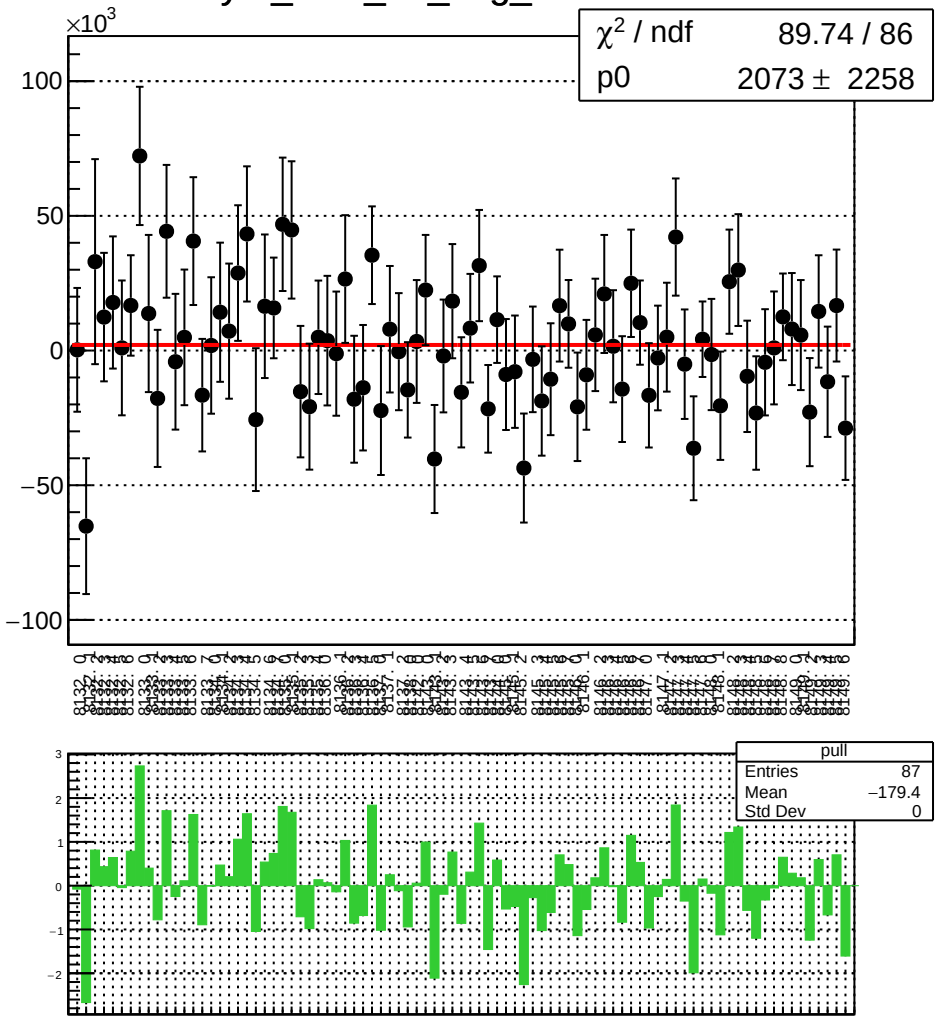

eigen_dit_asym_sam_48_avg_mean vs run
χ² / ndf 124.1 / 86
p0 −194.7 ± 185.3
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 87
Mean 365.5
Std Dev 0
3
2
1
0
−1
−2
−3

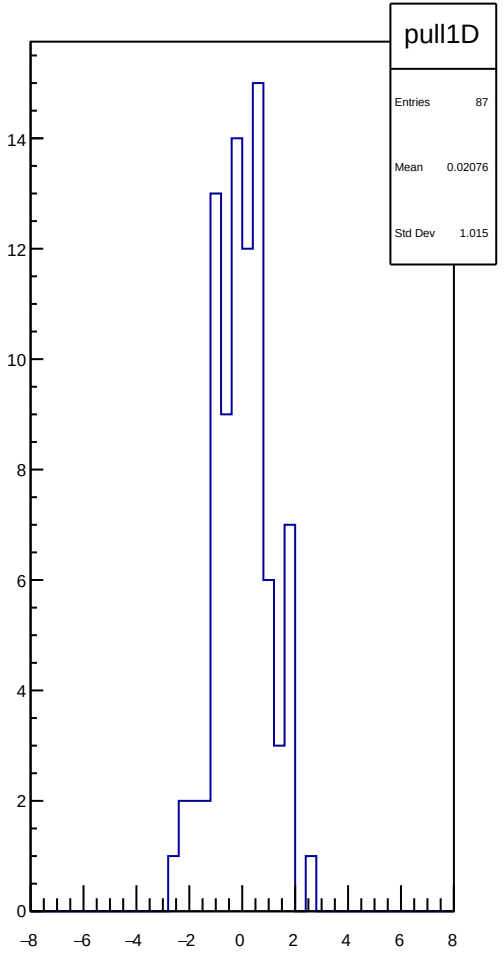

pull1D
Entries 87
Mean 0.01368
Std Dev 1.194
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

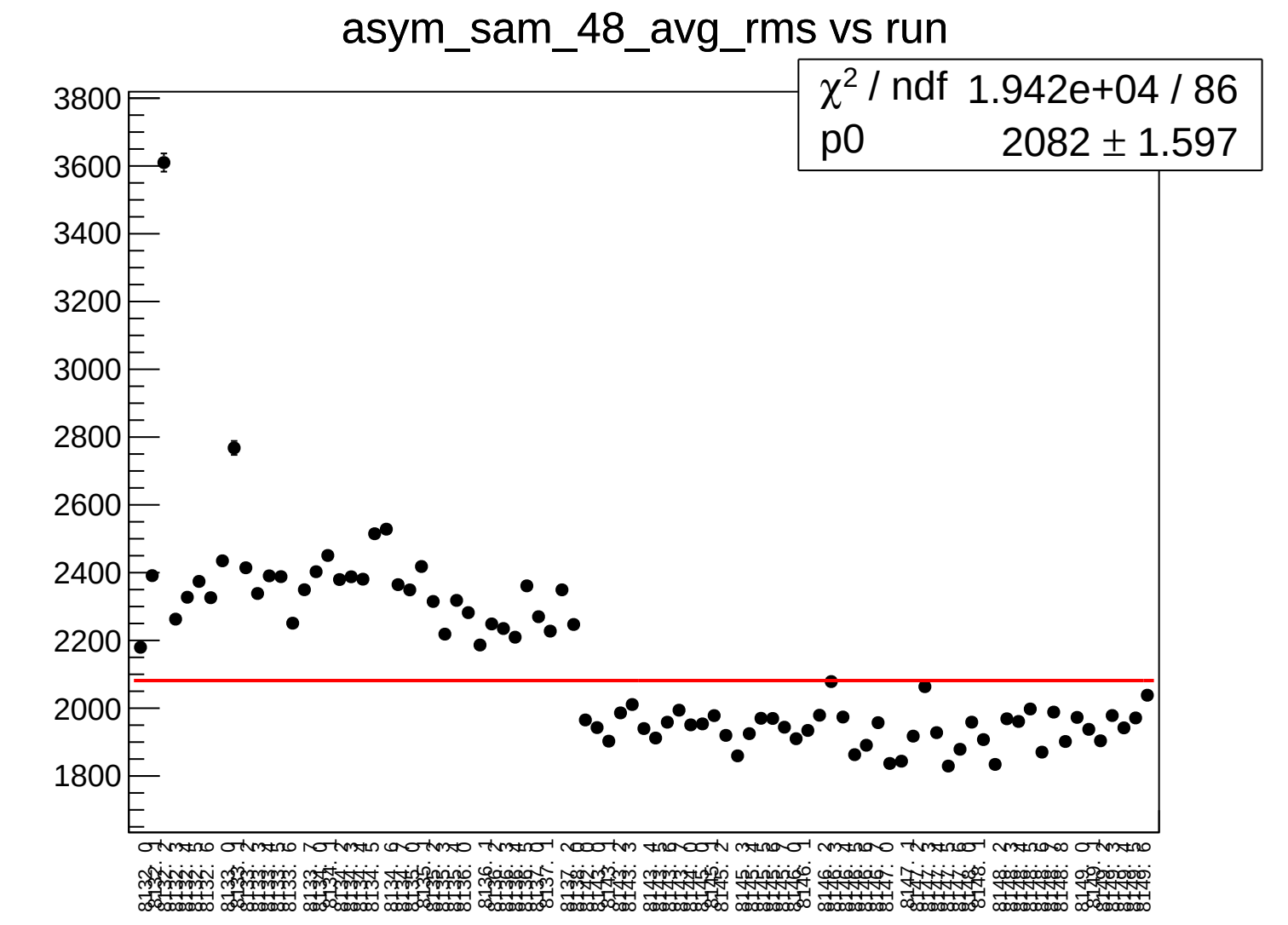

eigen_dit_asym_sam_48_avg_rms vs run
χ² / ndf 2.41e+04 / 86
p0 170.6 ± 0.1311
450
400
350
300
250
200
150

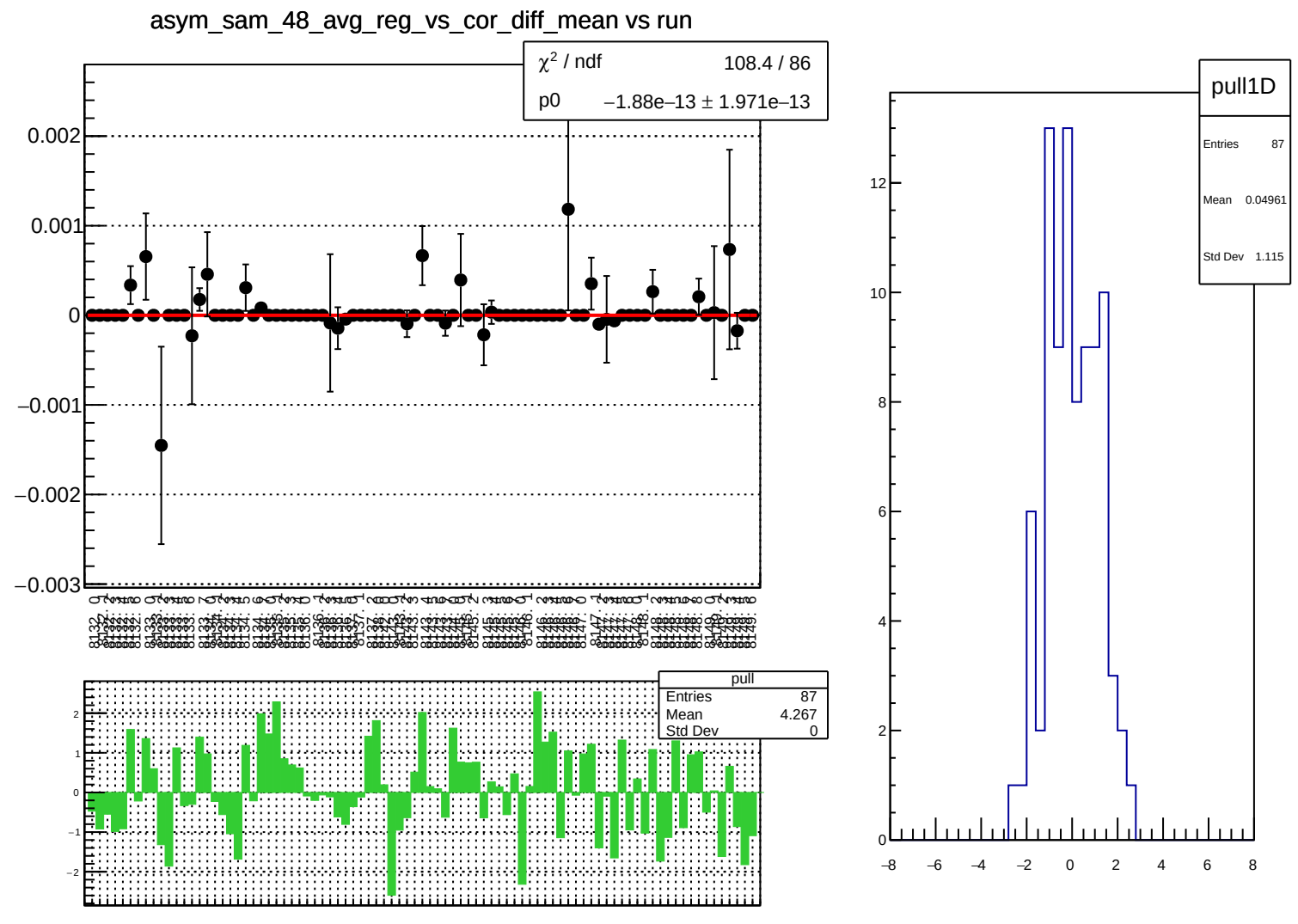

asym_sam_48_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 92.65 / 86
p0 −2296 ± 2307
100
50
0
−50
−100
pull
Entries 87
Mean −220.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.01859
Std Dev 1.032
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

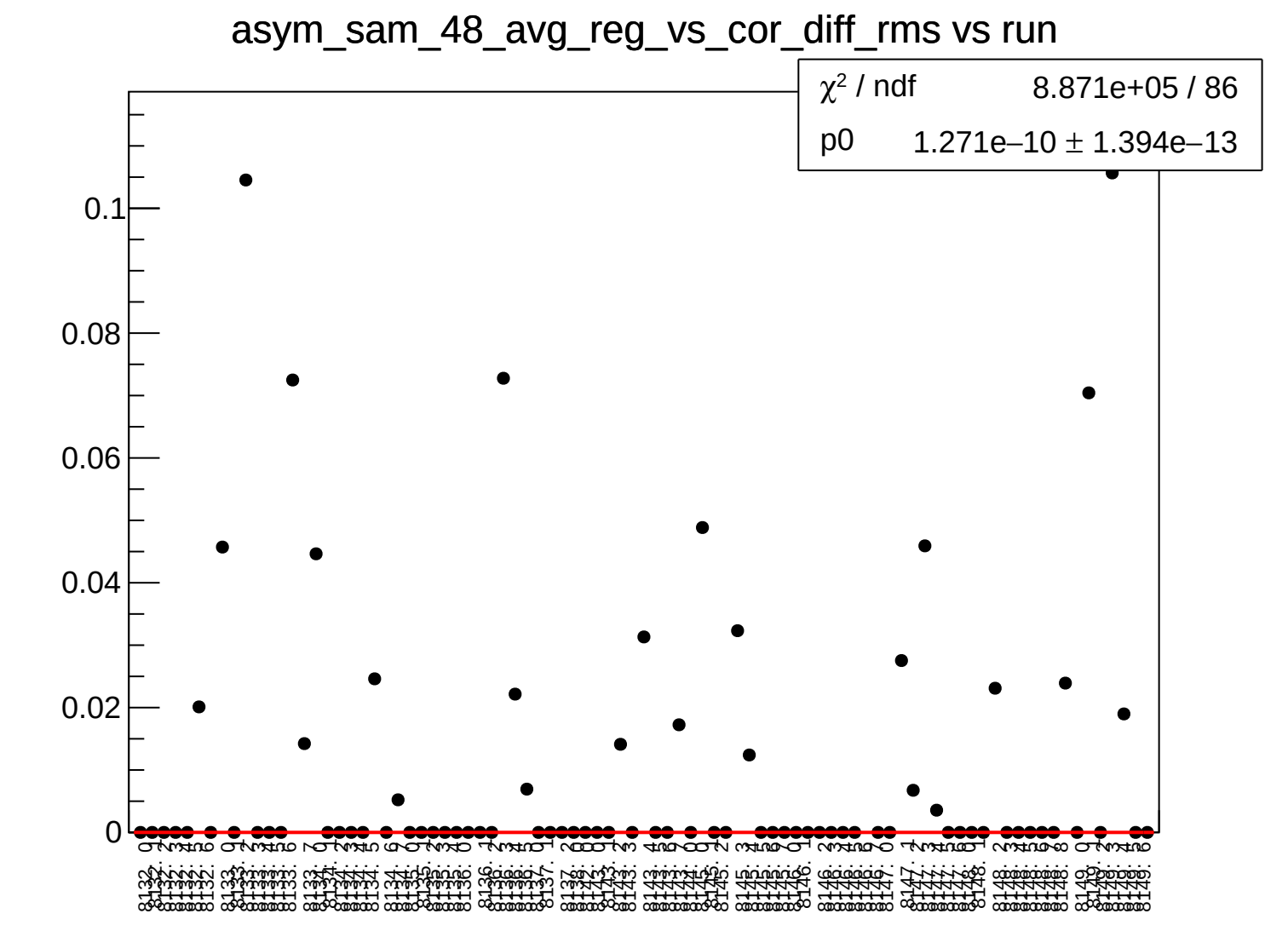

asym_sam_48_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.857e+04 / 86
p0 2127 ± 1.631
3800
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800

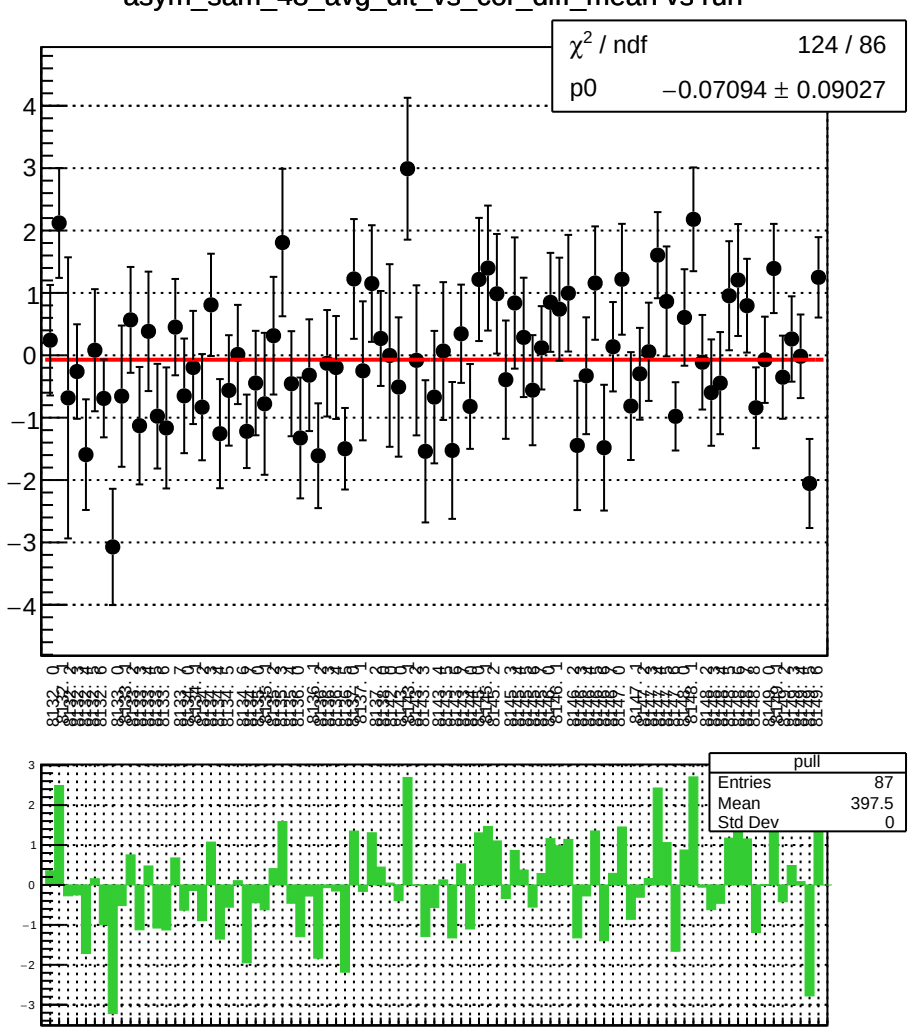

asym_sam_48_avg_mean vs run
×10^3
χ^2 / ndf 89.74 / 86
p0 2073 ± 2258
100
50
0
−50
−100
pull
Entries 87
Mean −179.4
Std Dev 0
3
2
1
0
−1
−2

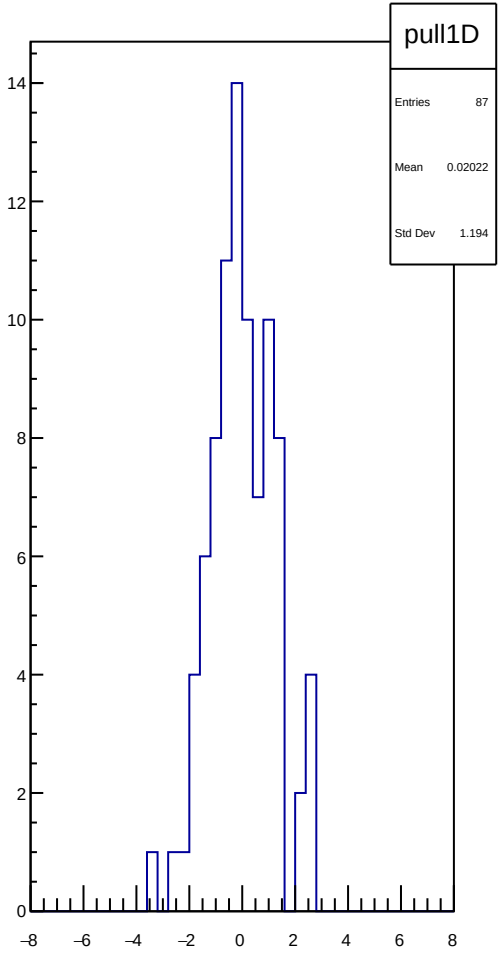

pull1D
Entries 87
Mean 0.02076
Std Dev 1.015
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

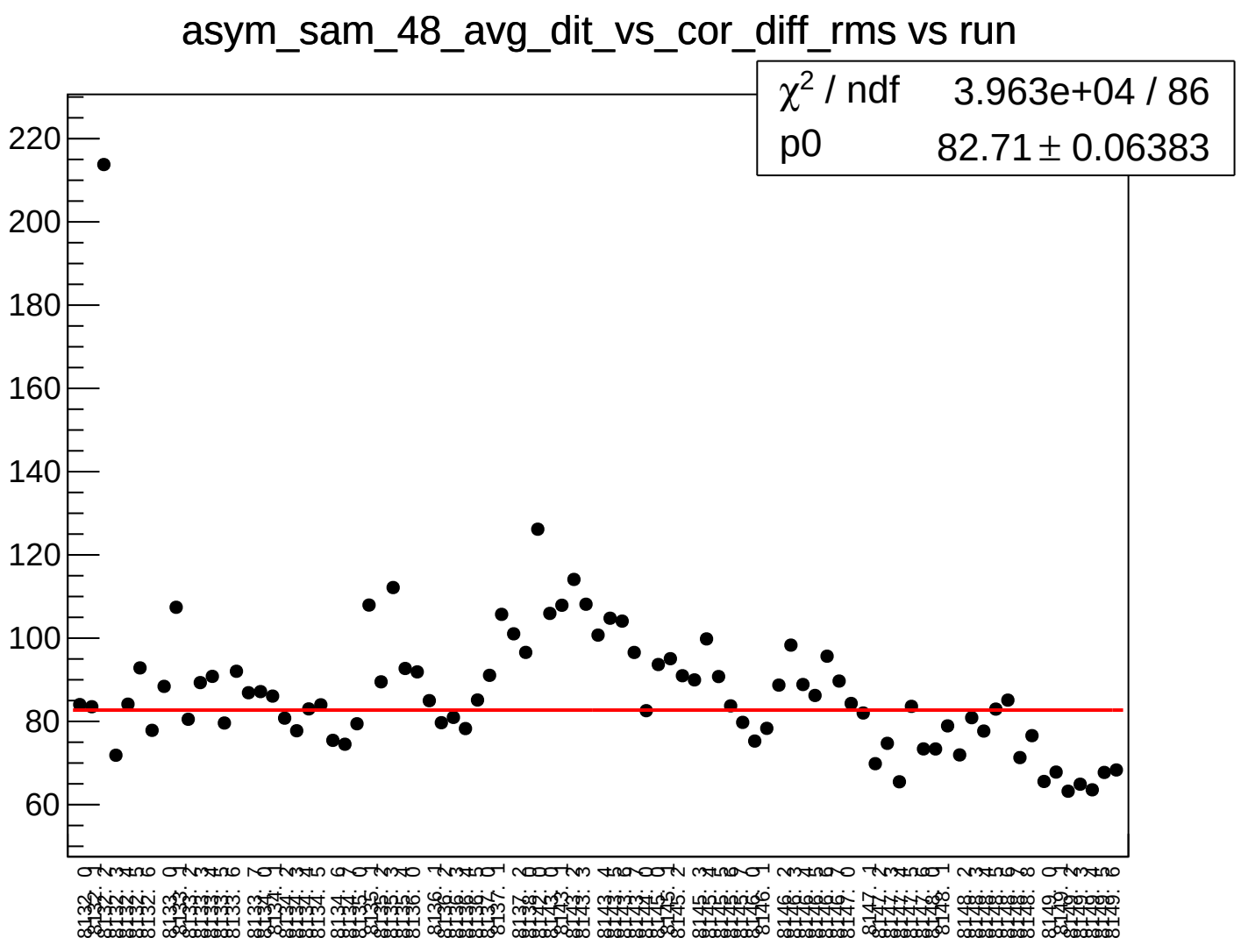

asym_sam_48_avg_rms vs run
χ² / ndf 1.942e+04 / 86
p0 2082 ± 1.597
3800
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800

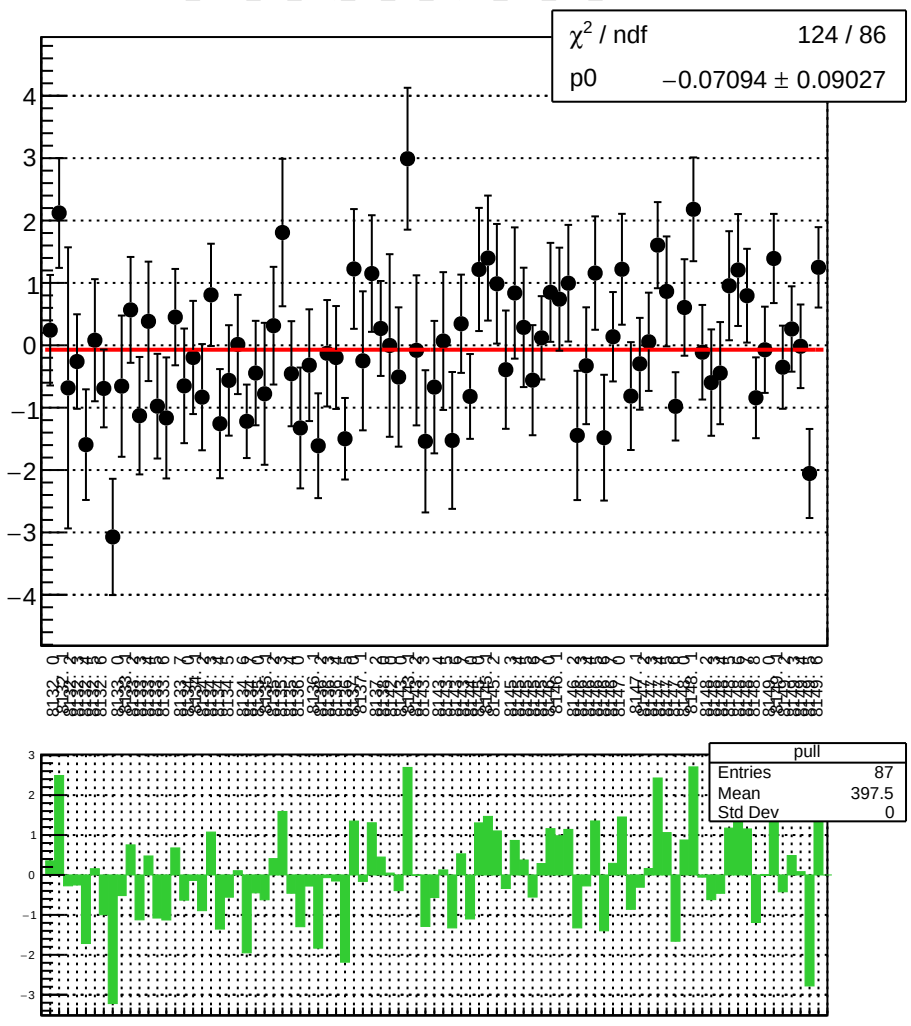

asym_sam_48_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 108.4 / 86
p0 −1.88e−13 ± 1.971e−13
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 87
Mean 4.267
Std Dev 0
pull1D
Entries 87
Mean 0.04961
Std Dev 1.115
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

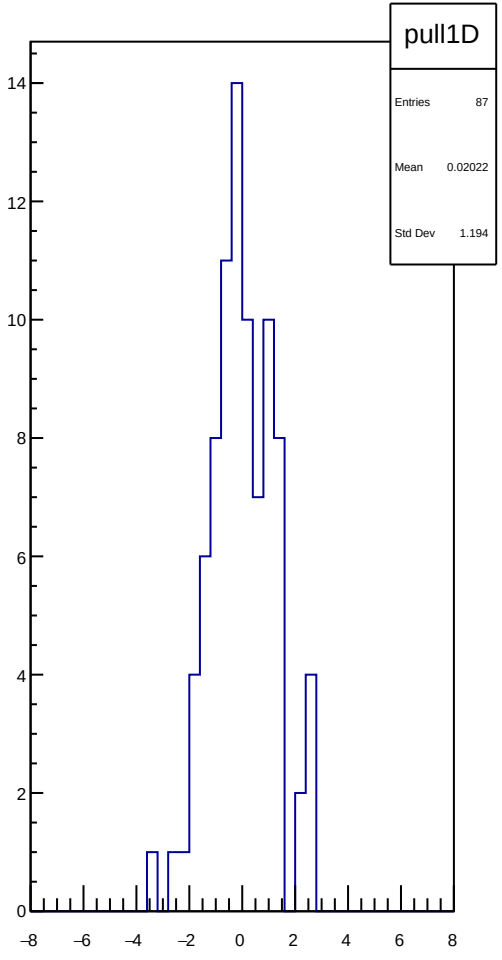

asym_sam_48_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.871e+05 / 86
p0 1.271e−10 ± 1.394e−13
0.1
0.08
0.06
0.04
0.02
0

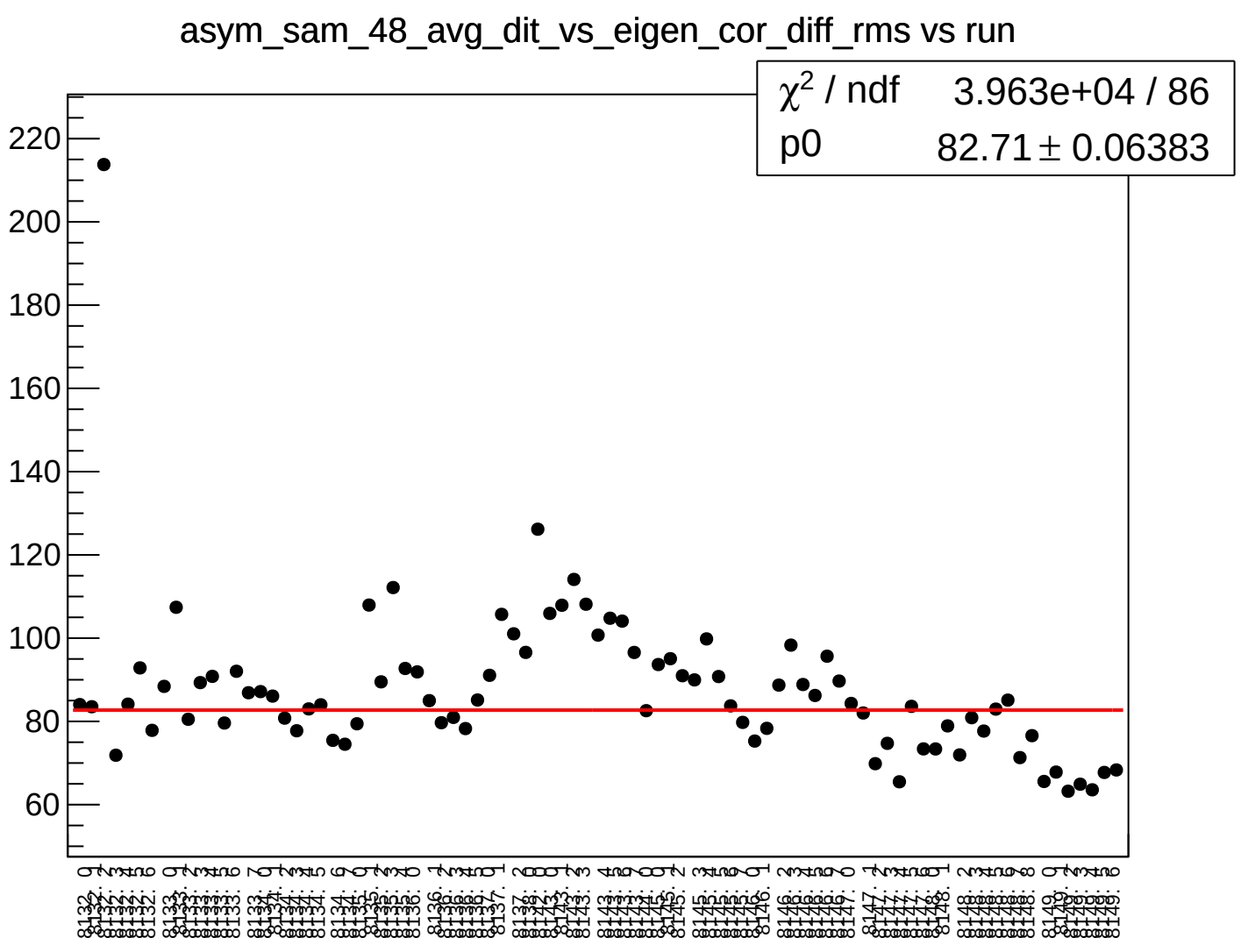

asym_sam_48_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 124 / 86
p0 −0.07094 ± 0.09027
pull
Entries 87
Mean 397.5
Std Dev 0

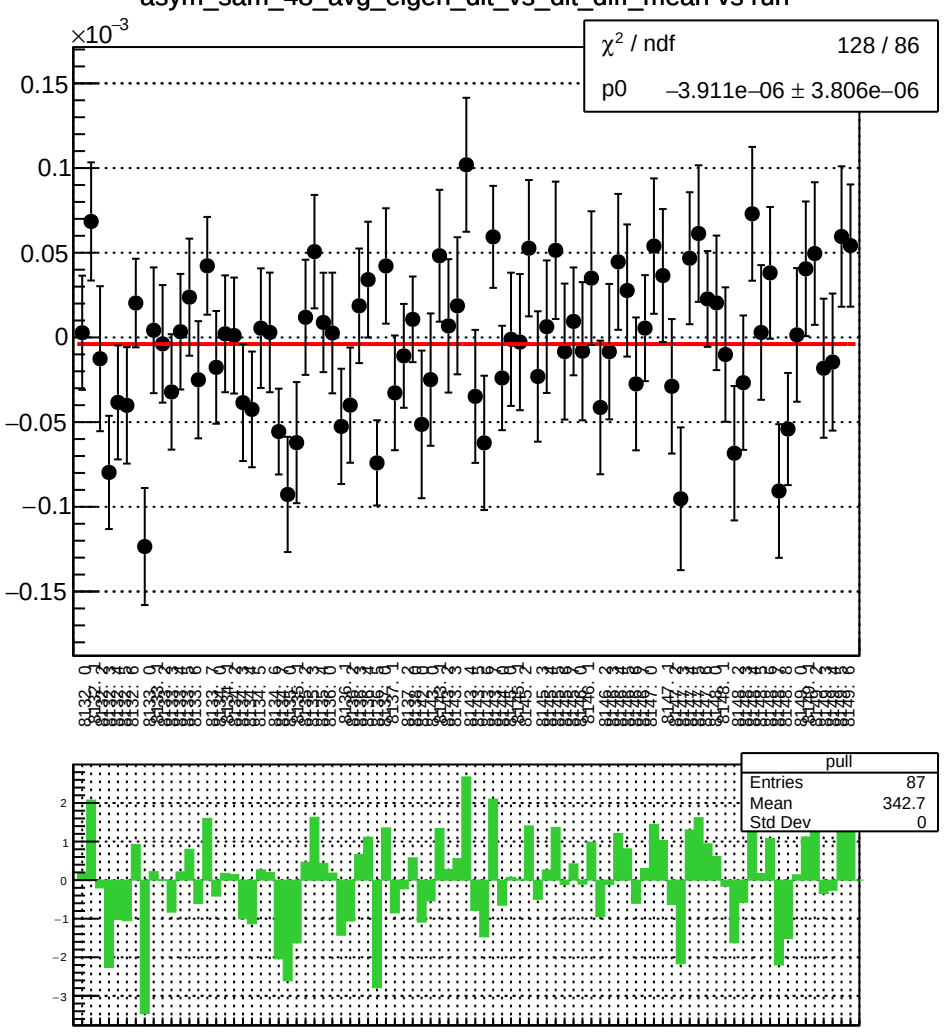

pull1D
Entries 87
Mean 0.02022
Std Dev 1.194

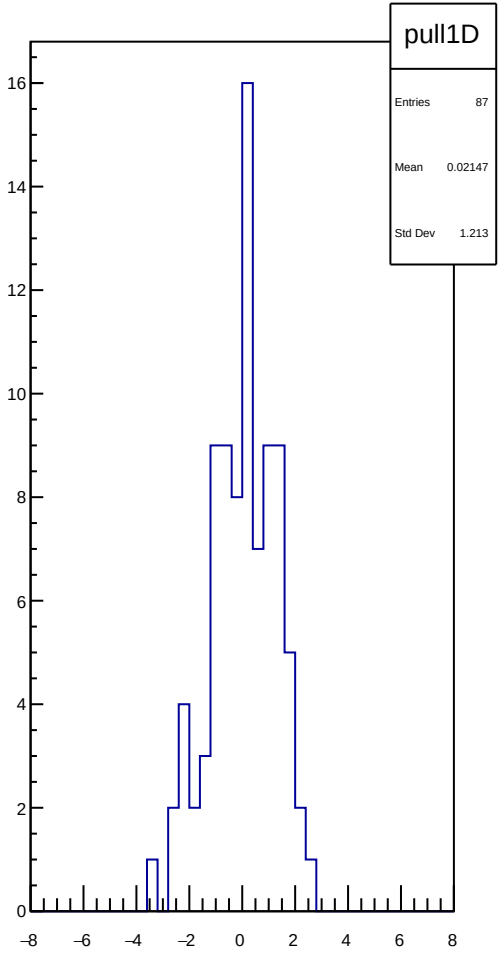

asym_sam_48_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.963e+04 / 86
p0 82.71 ± 0.06383
220
200
180
160
140
120
100
80
60

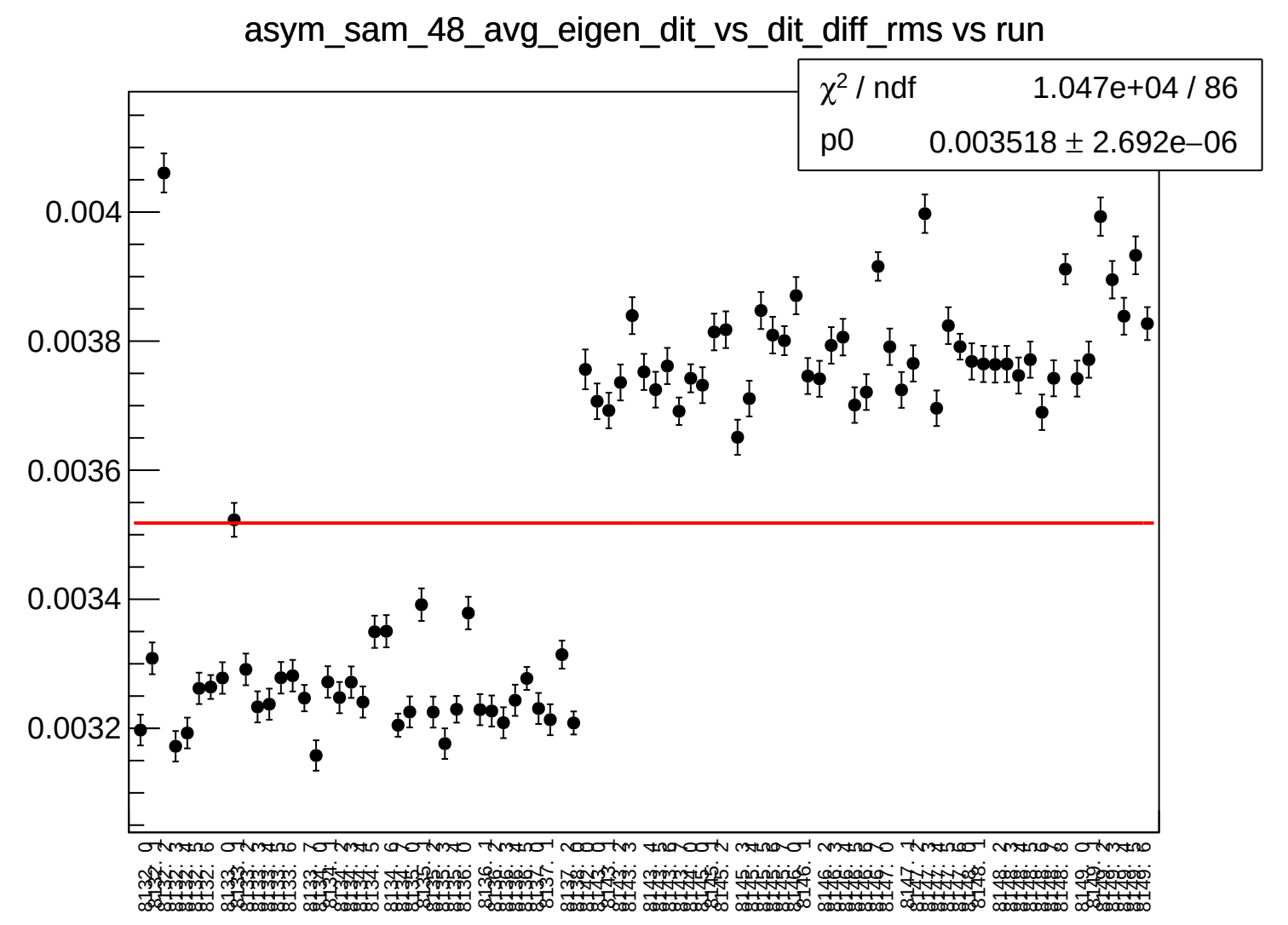

asym_sam_48_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 124 / 86
p0 −0.07094 ± 0.09027
pull
Entries 87
Mean 397.5
Std Dev 0

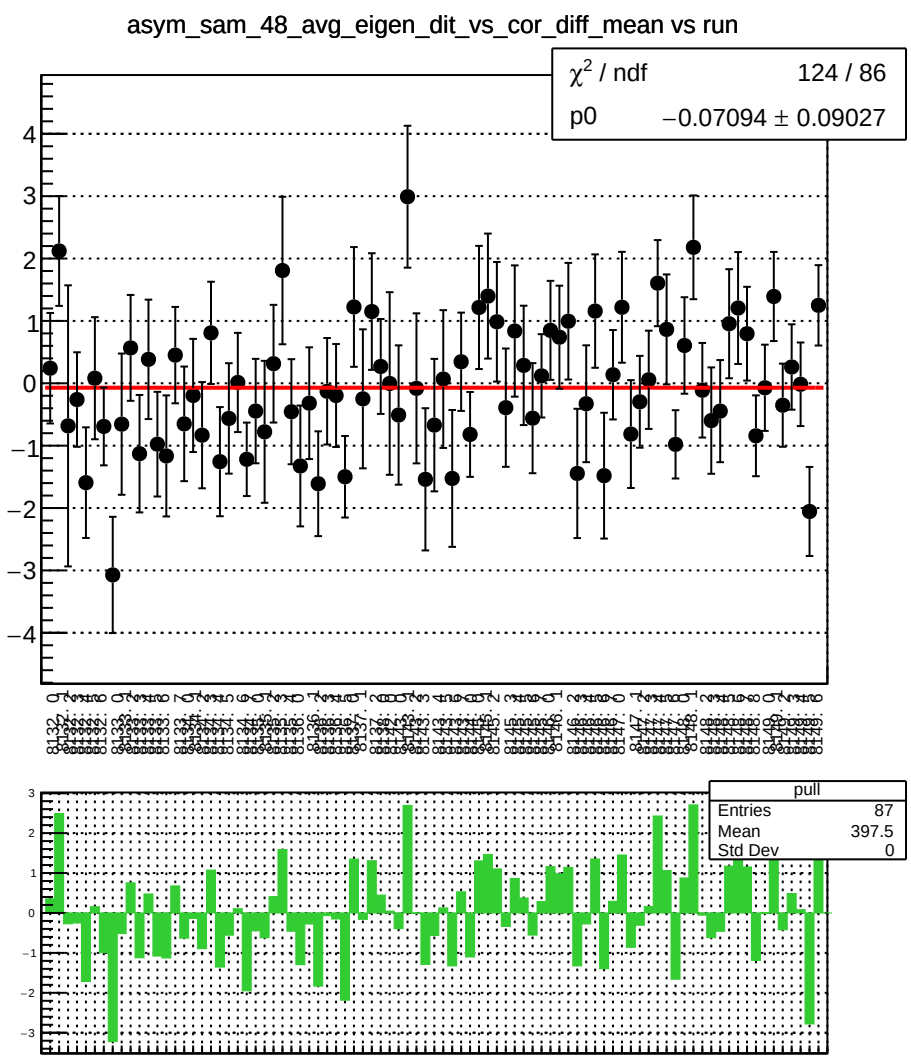

pull1D
Entries 87
Mean 0.02022
Std Dev 1.194

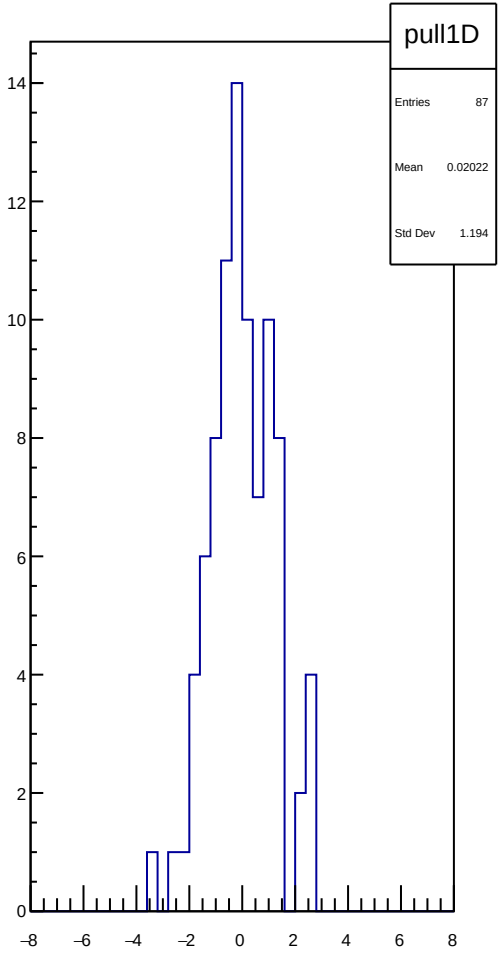

asym_sam_48_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.963e+04 / 86
p0 82.71 ± 0.06383
220
200
180
160
140
120
100
80
60

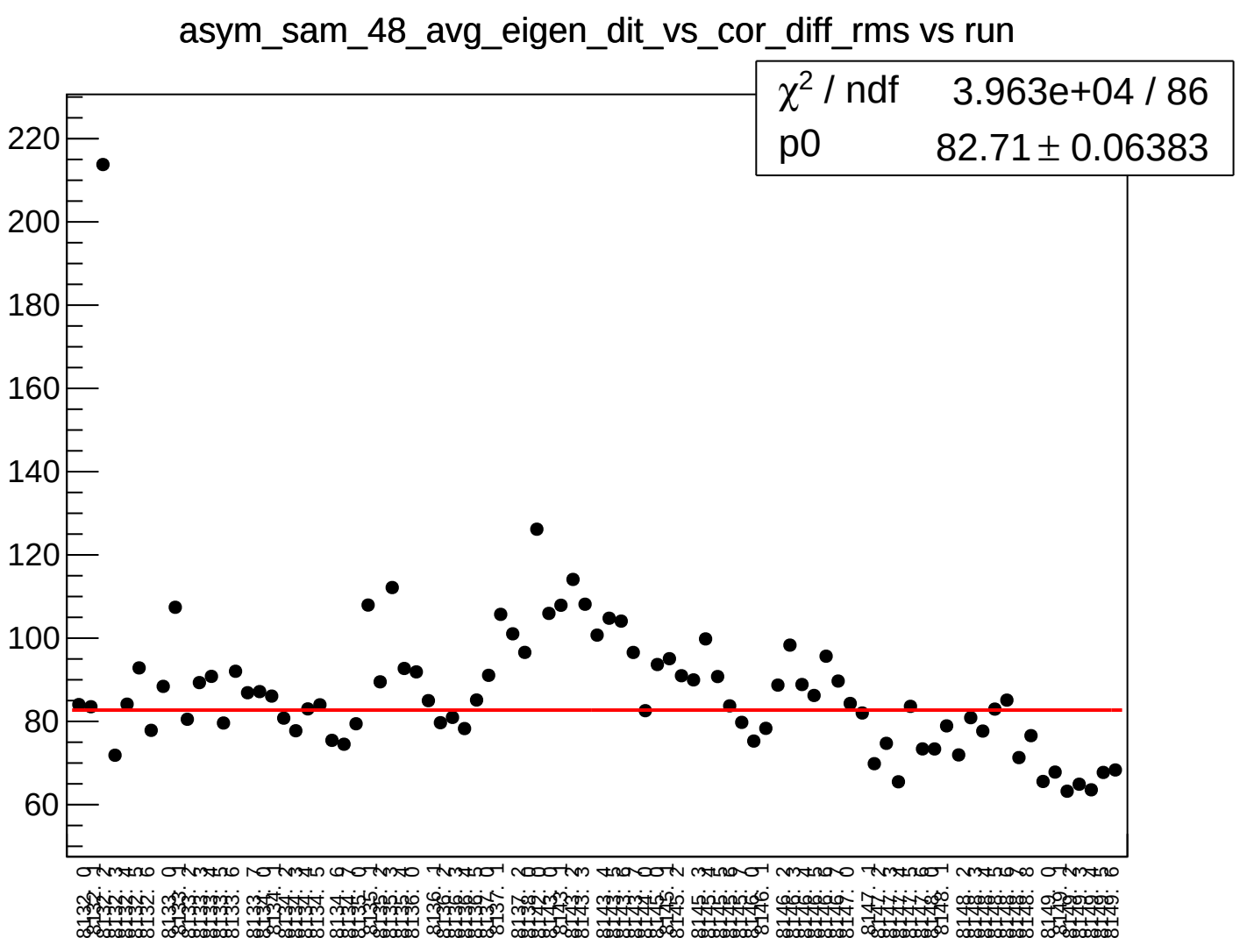

asym_sam_48_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 128 / 86
p0 −3.911e−06 ± 3.806e−06
pull
Entries 87
Mean 342.7
Std Dev 0

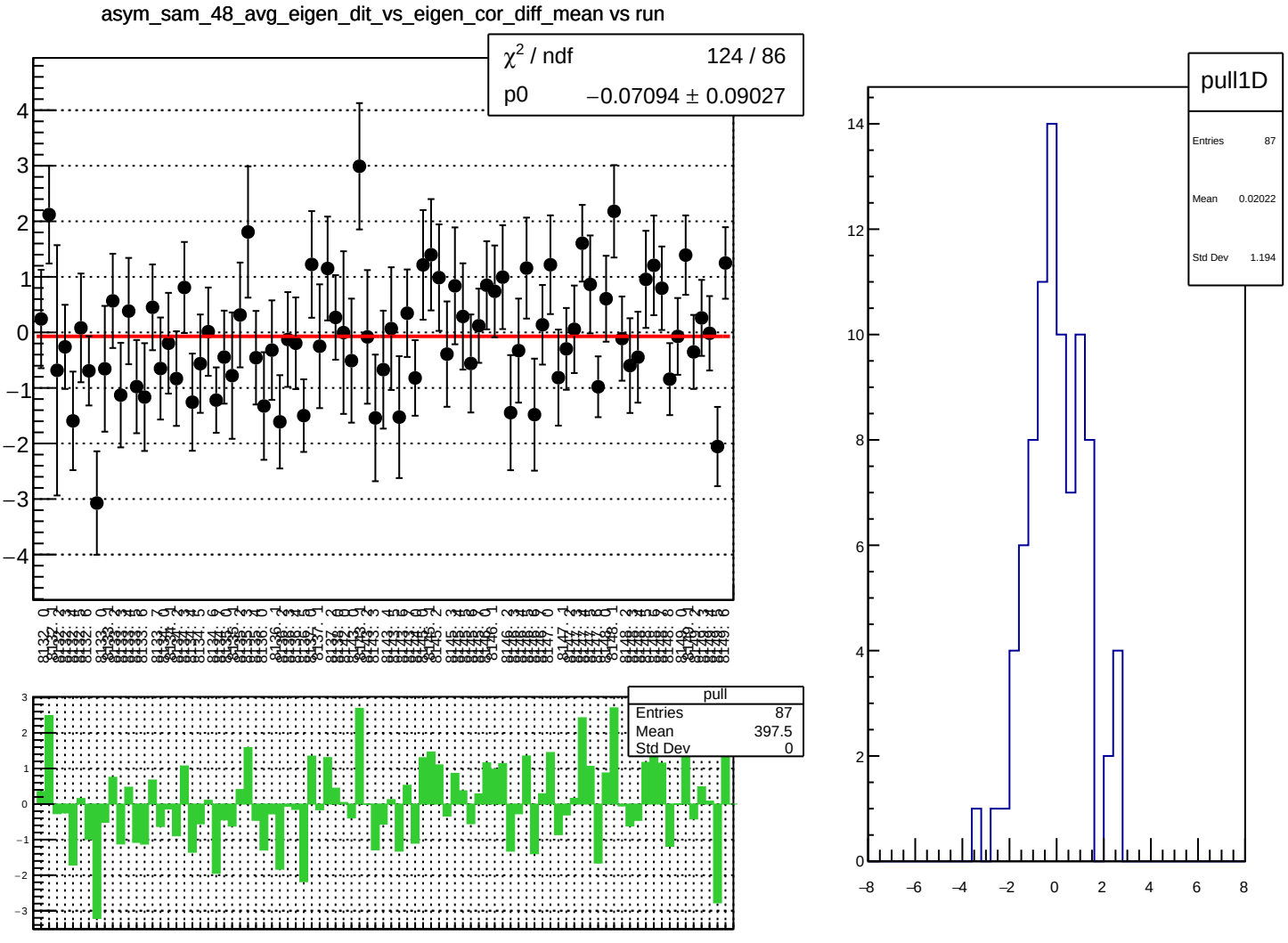

pull1D
Entries 87
Mean 0.02147
Std Dev 1.213

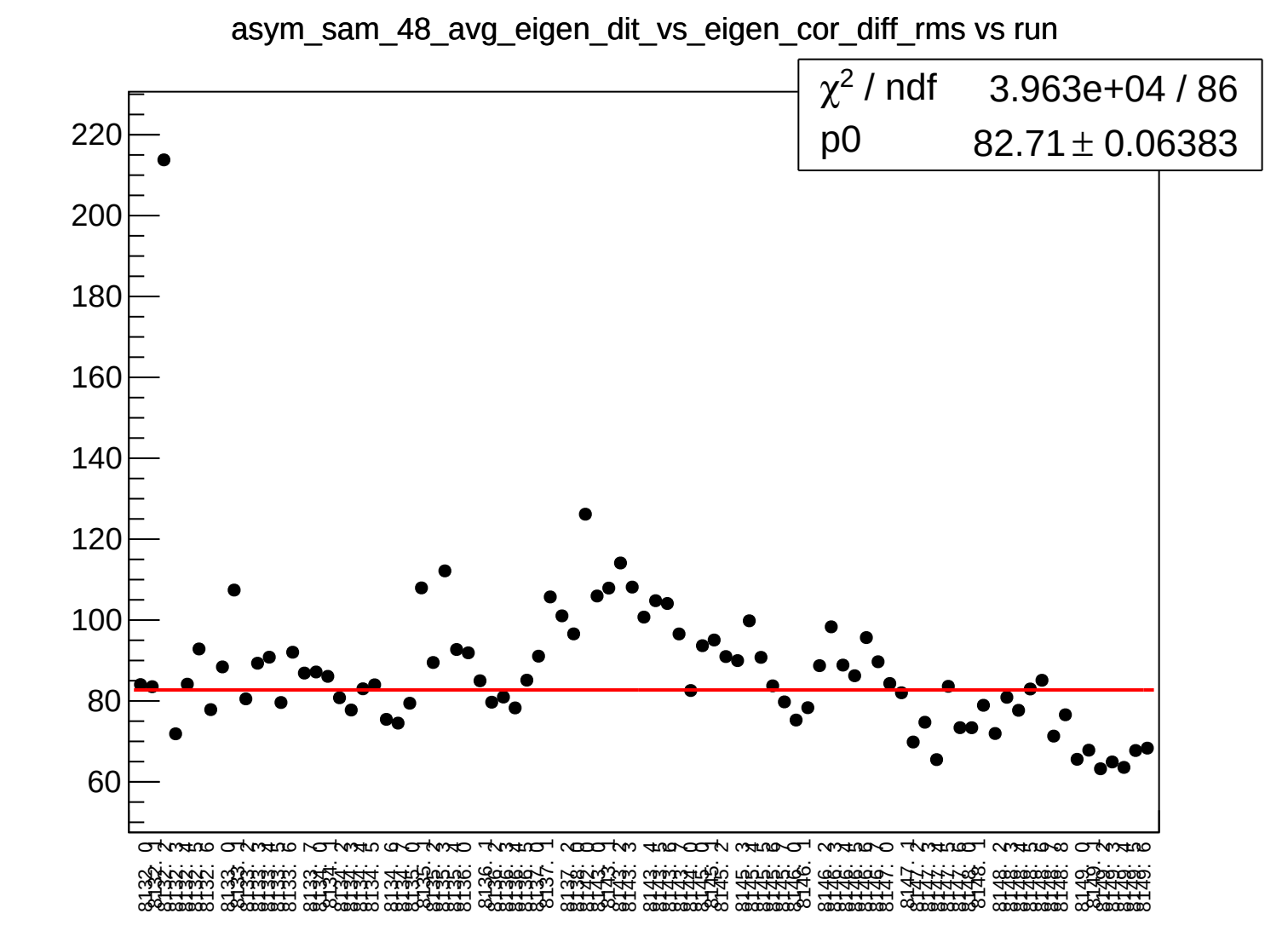

asym_sam_48_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.047e+04 / 86
p0 0.003518 ± 2.692e−06
0.004
0.0038
0.0036
0.0034
0.0032

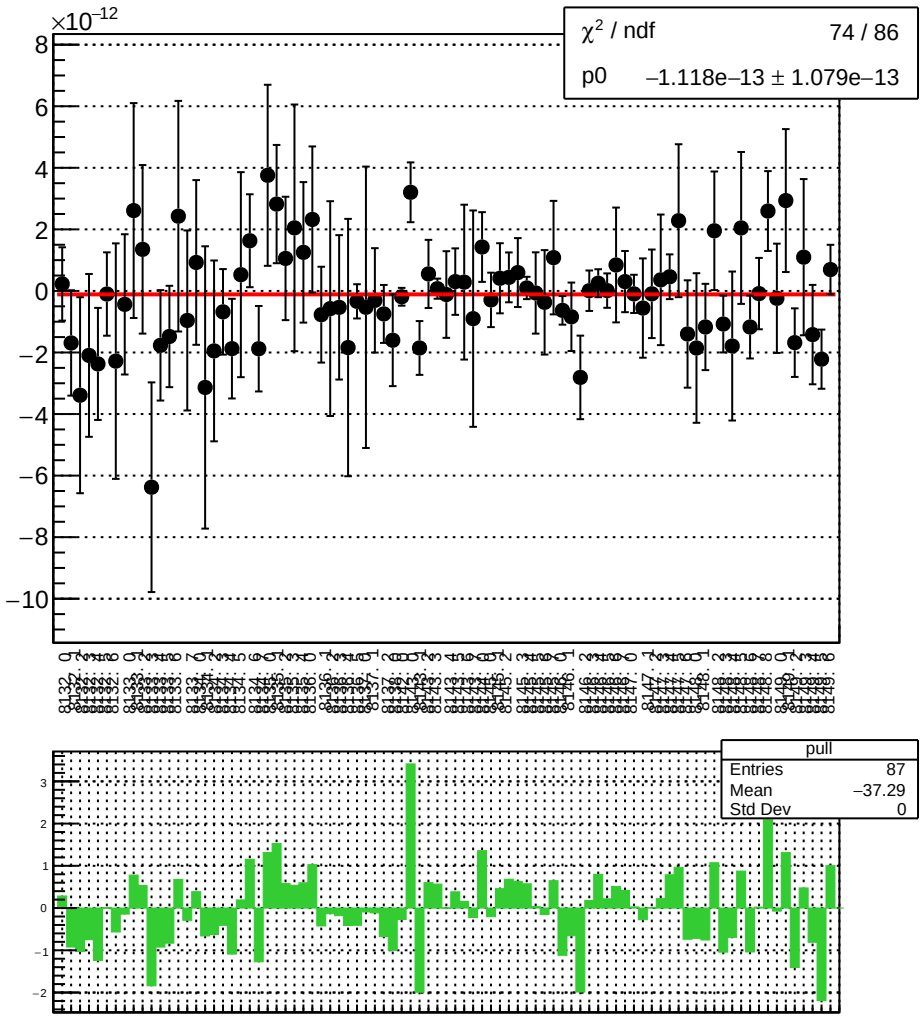

asym_sam_48_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 124 / 86
p0 −0.07094 ± 0.09027
pull
Entries 87
Mean 397.5
Std Dev 0

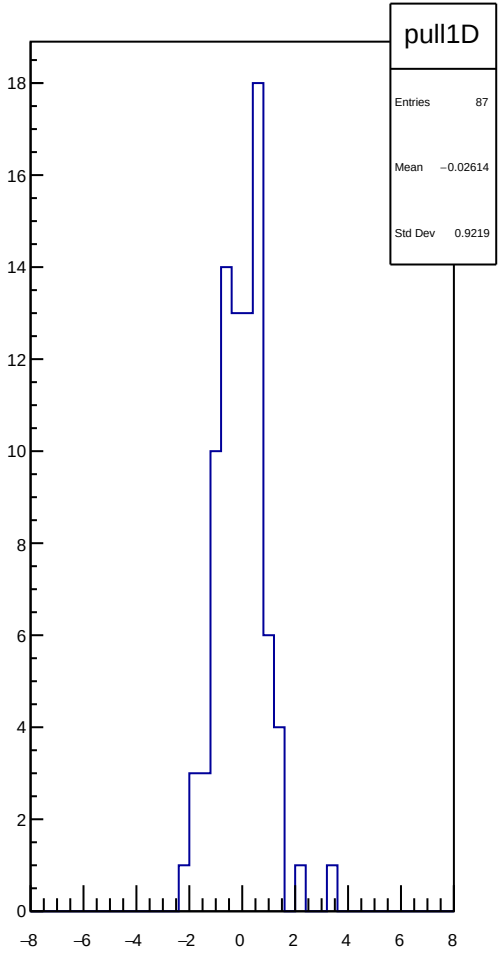

pull1D
Entries 87
Mean 0.02022
Std Dev 1.194

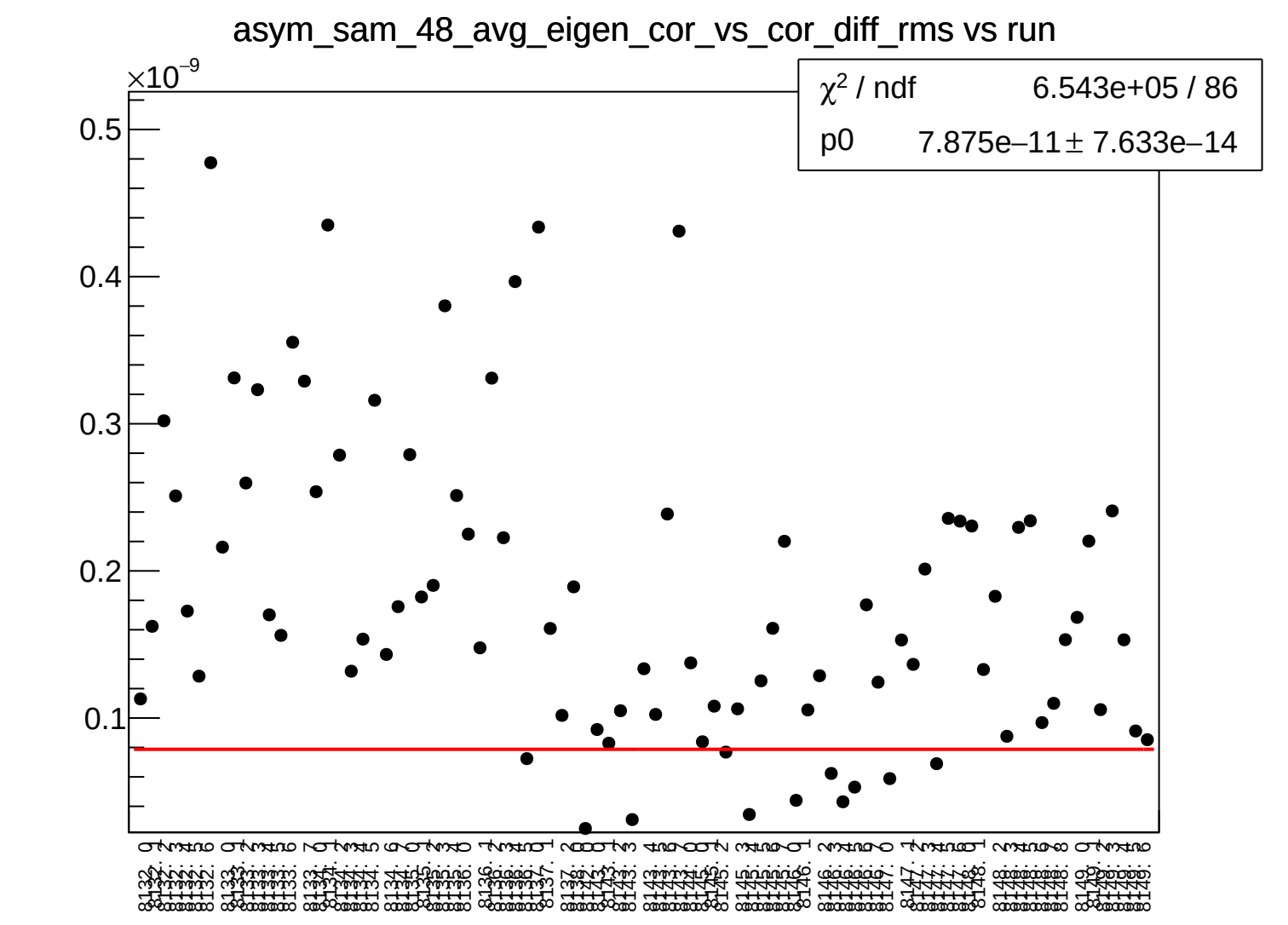

asym_sam_48_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.963e+04 / 86
p0 82.71 ± 0.06383
220
200
180
160
140
120
100
80
60

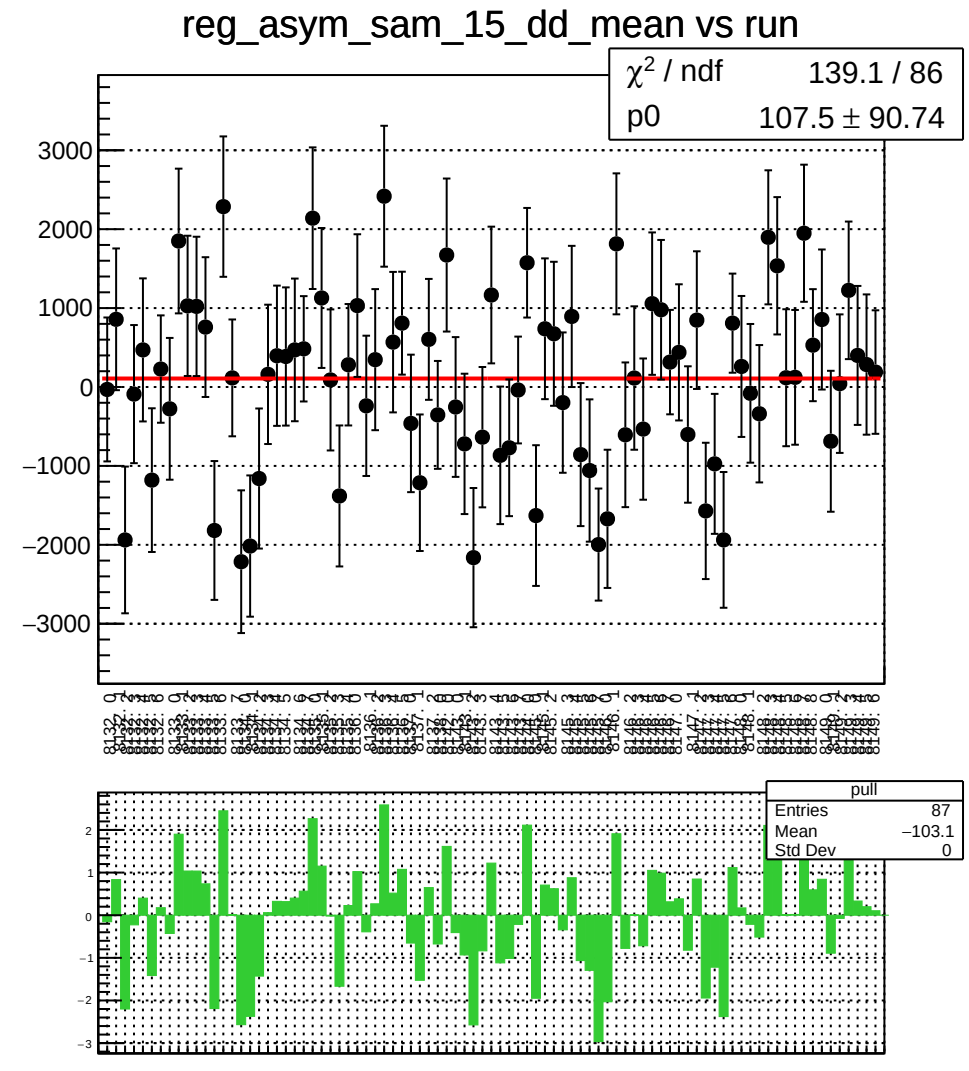

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 124 / 86
p0 −0.07094 ± 0.09027
pull
Entries 87
Mean 397.5
Std Dev 0
pull1D
Entries 87
Mean 0.02022
Std Dev 1.194

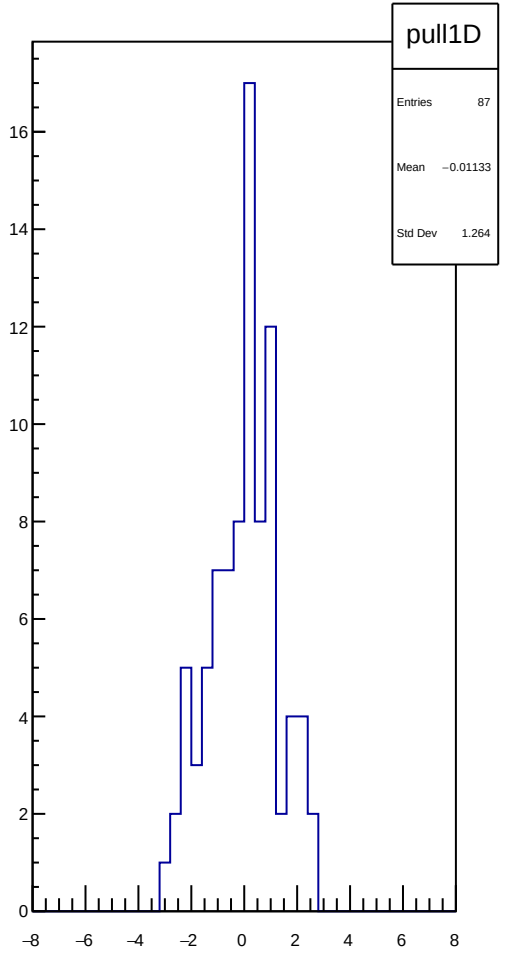

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.963e+04 / 86
p0 82.71 ± 0.06383
220
200
180
160
140
120
100
80
60

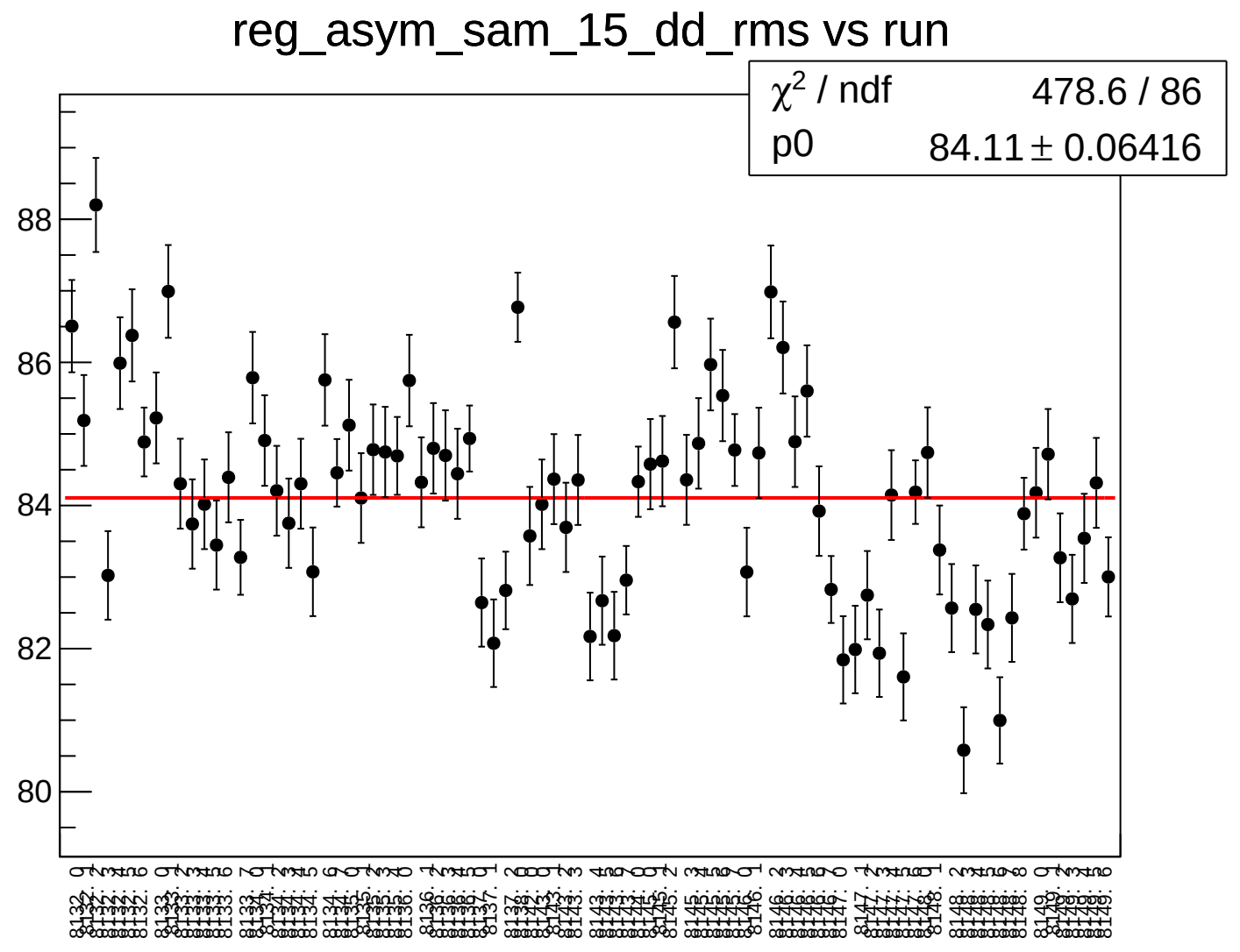

asym_sam_48_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74 / 86
p0 −1.118e−13 ± 1.079e−13
pull
Entries 87
Mean −37.29
Std Dev 0

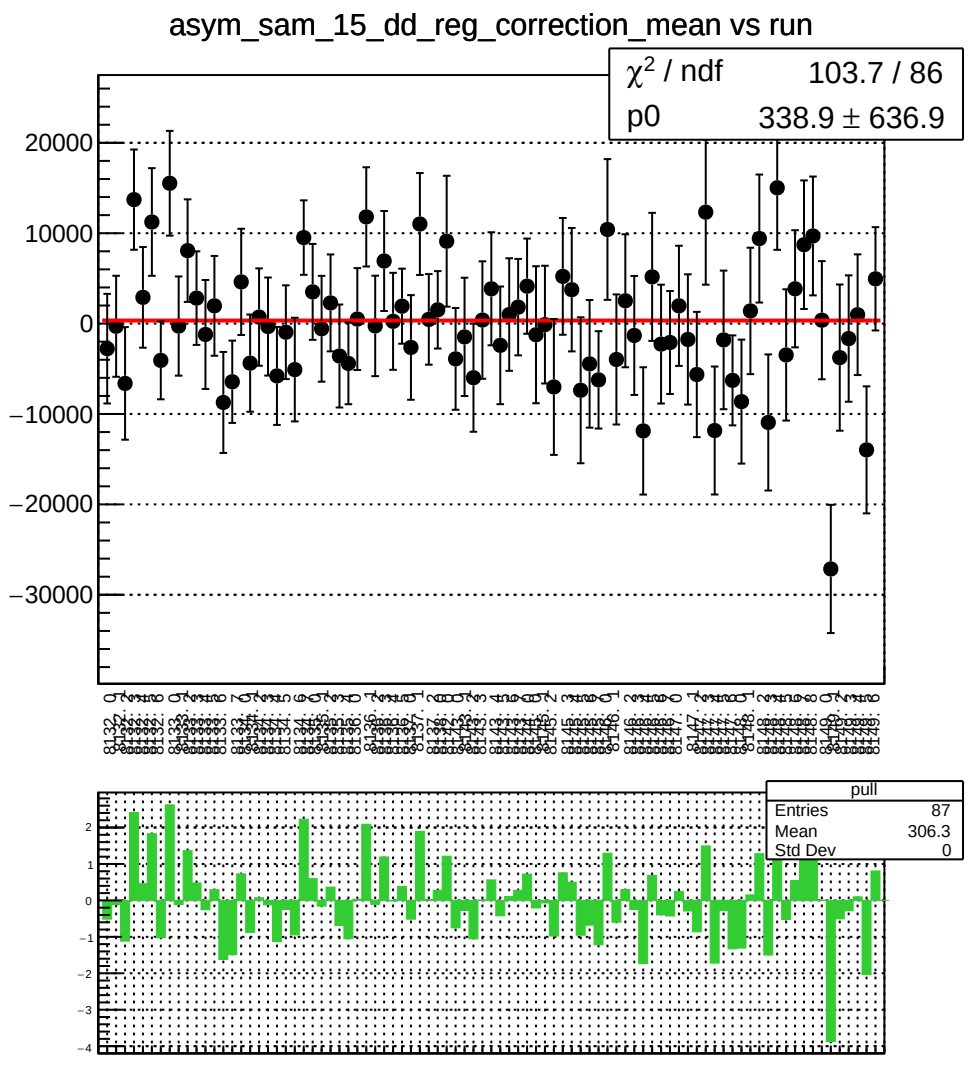

pull1D
Entries 87
Mean −0.02614
Std Dev 0.9219

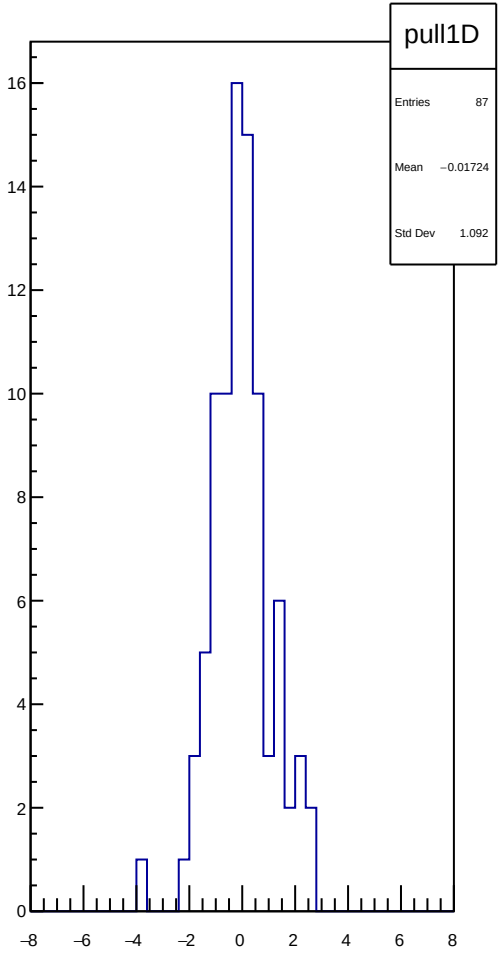

asym_sam_48_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.543e+05 / 86
p0 7.875e−11 ± 7.633e−14
0.5
0.4
0.3
0.2
0.1

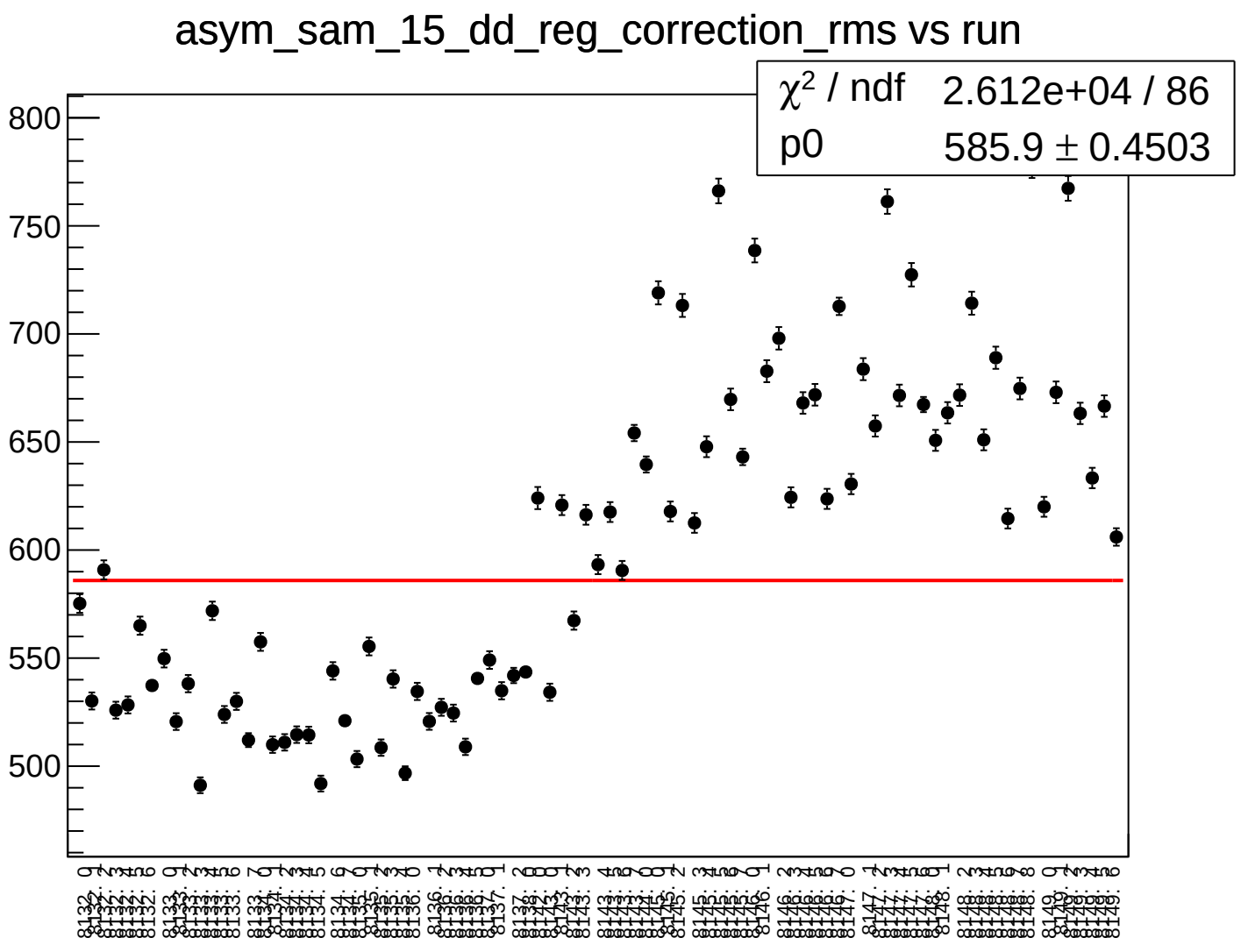

reg_asym_sam_15_dd_mean vs run
χ² / ndf 139.1 / 86
p0 107.5 ± 90.74
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 87
Mean −103.1
Std Dev 0
2
1
0
−1
−2
−3

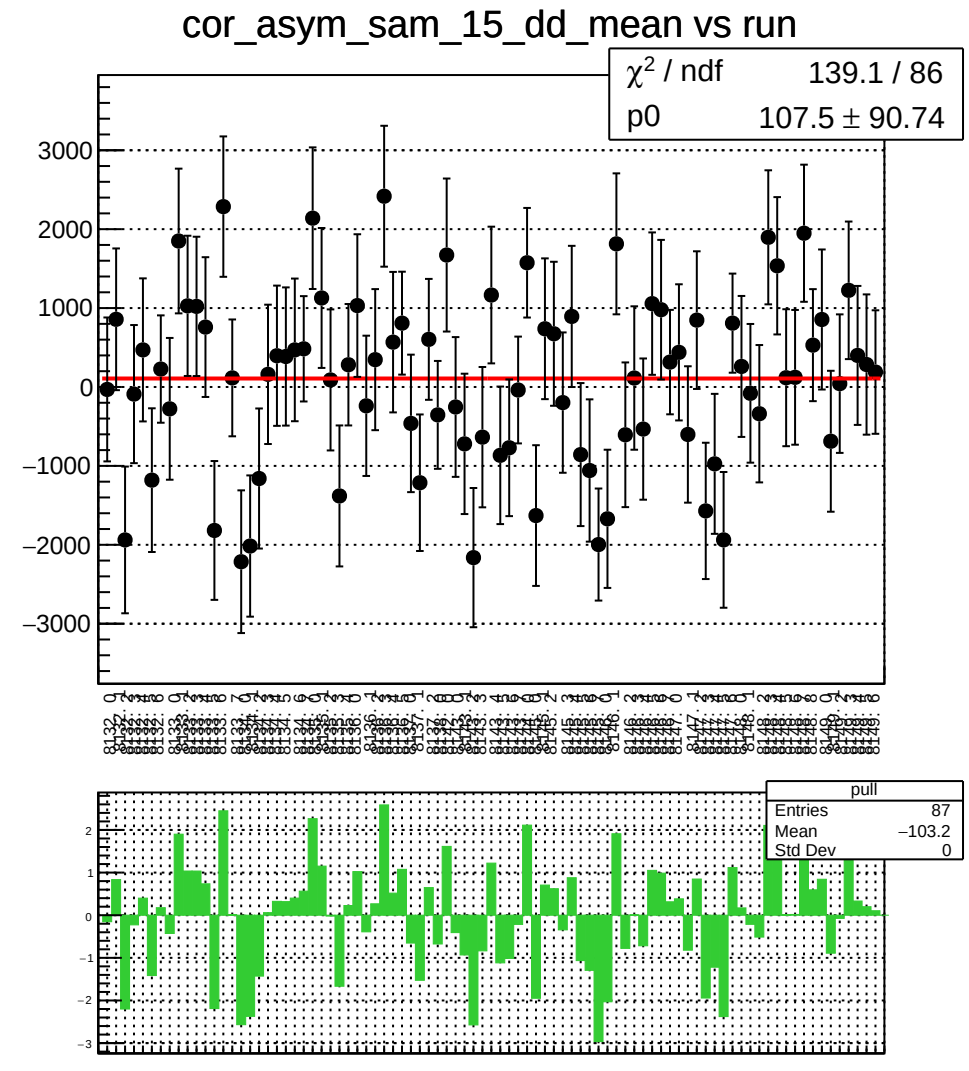

pull1D
Entries 87
Mean −0.01133
Std Dev 1.264
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

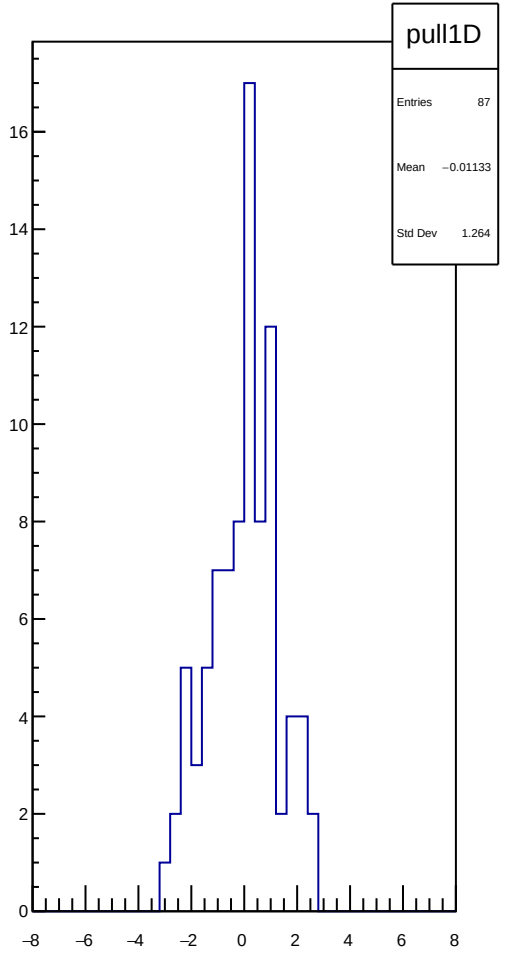

reg_asym_sam_15_dd_rms vs run
χ² / ndf 478.6 / 86
p0 84.11 ± 0.06416
88
86
84
82
80

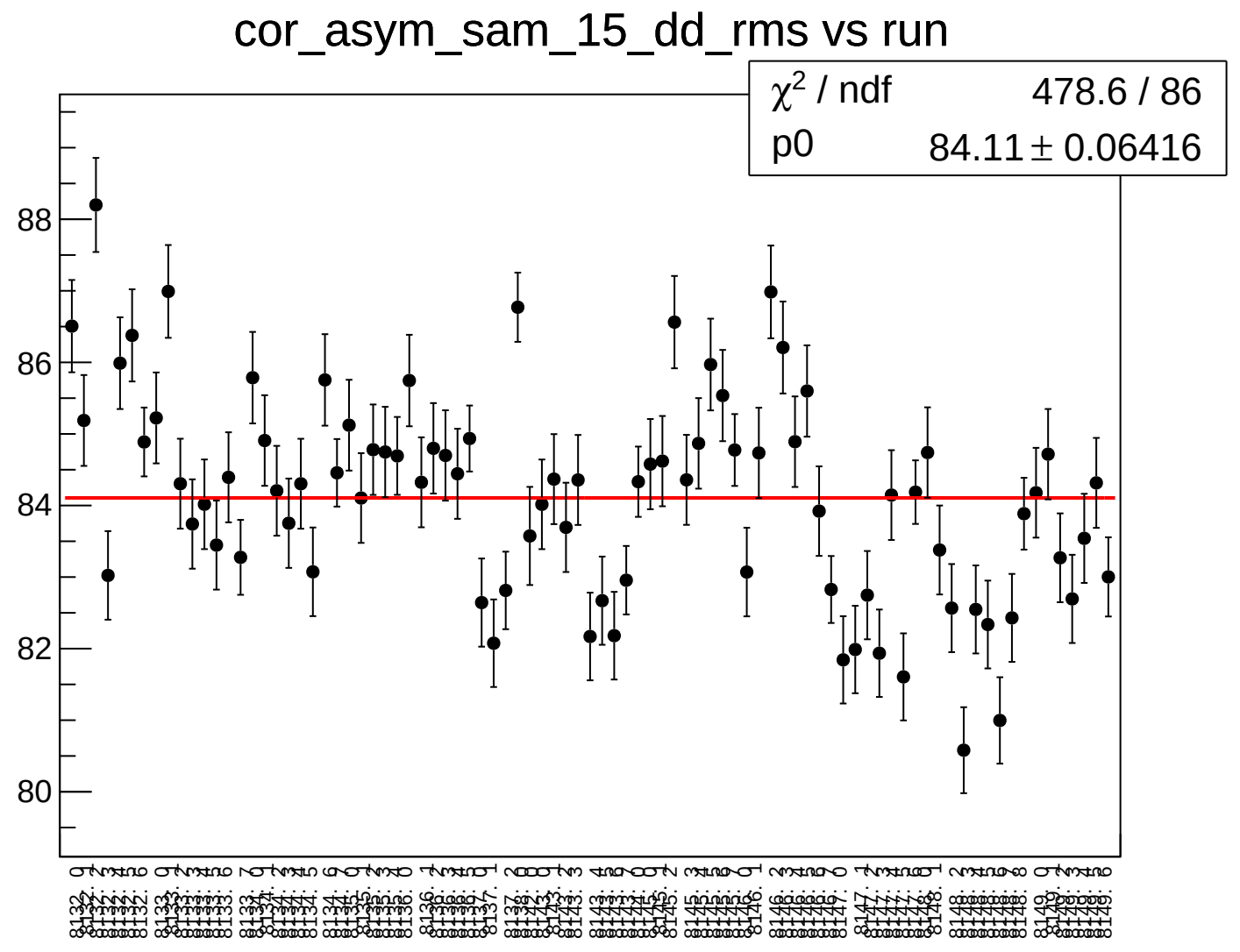

asym_sam_15_dd_reg_correction_mean vs run
χ² / ndf 103.7 / 86
p0 338.9 ± 636.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean 306.3
Std Dev 0
2
1
0
−1
−2
−3
−4

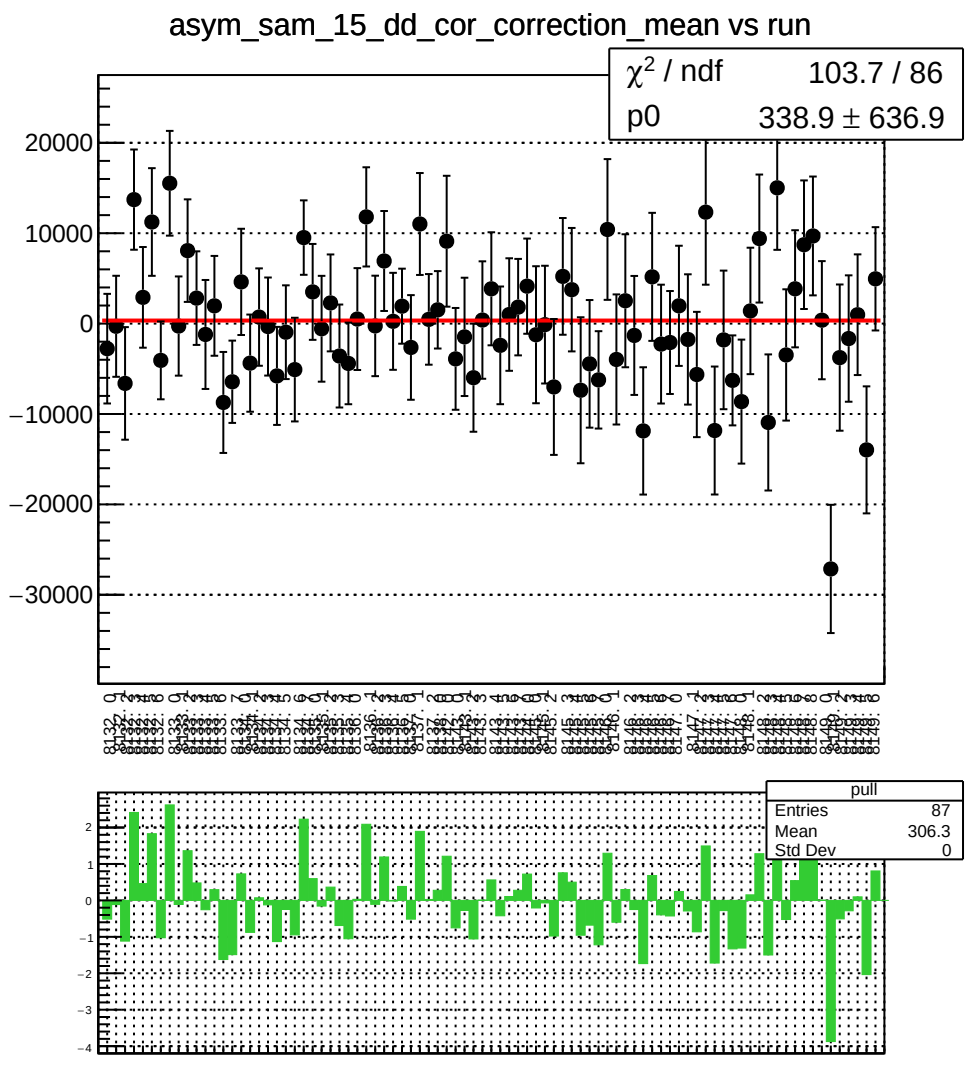

pull1D
Entries 87
Mean −0.01724
Std Dev 1.092
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

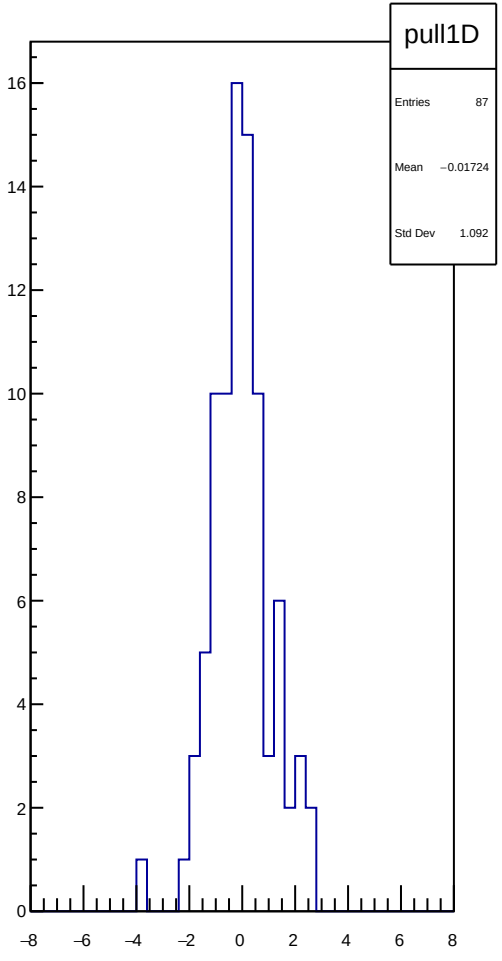

asym_sam_15_dd_reg_correction_rms vs run
χ² / ndf 2.612e+04 / 86
p0 585.9 ± 0.4503
800
750
700
650
600
550
500

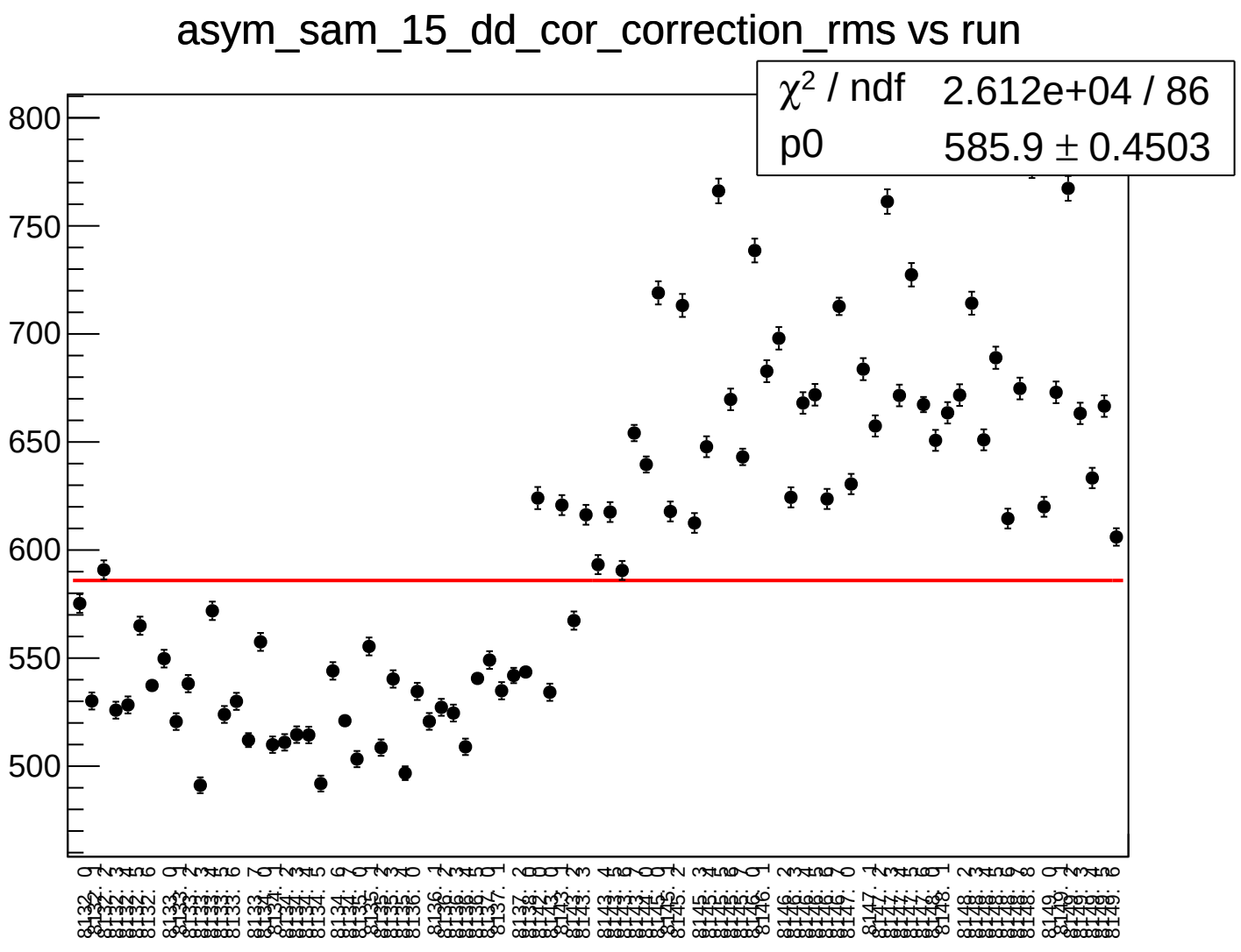

cor_asym_sam_15_dd_mean vs run
χ² / ndf 139.1 / 86
p0 107.5 ± 90.74
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 87
Mean −103.2
Std Dev 0
2
1
0
−1
−2
−3

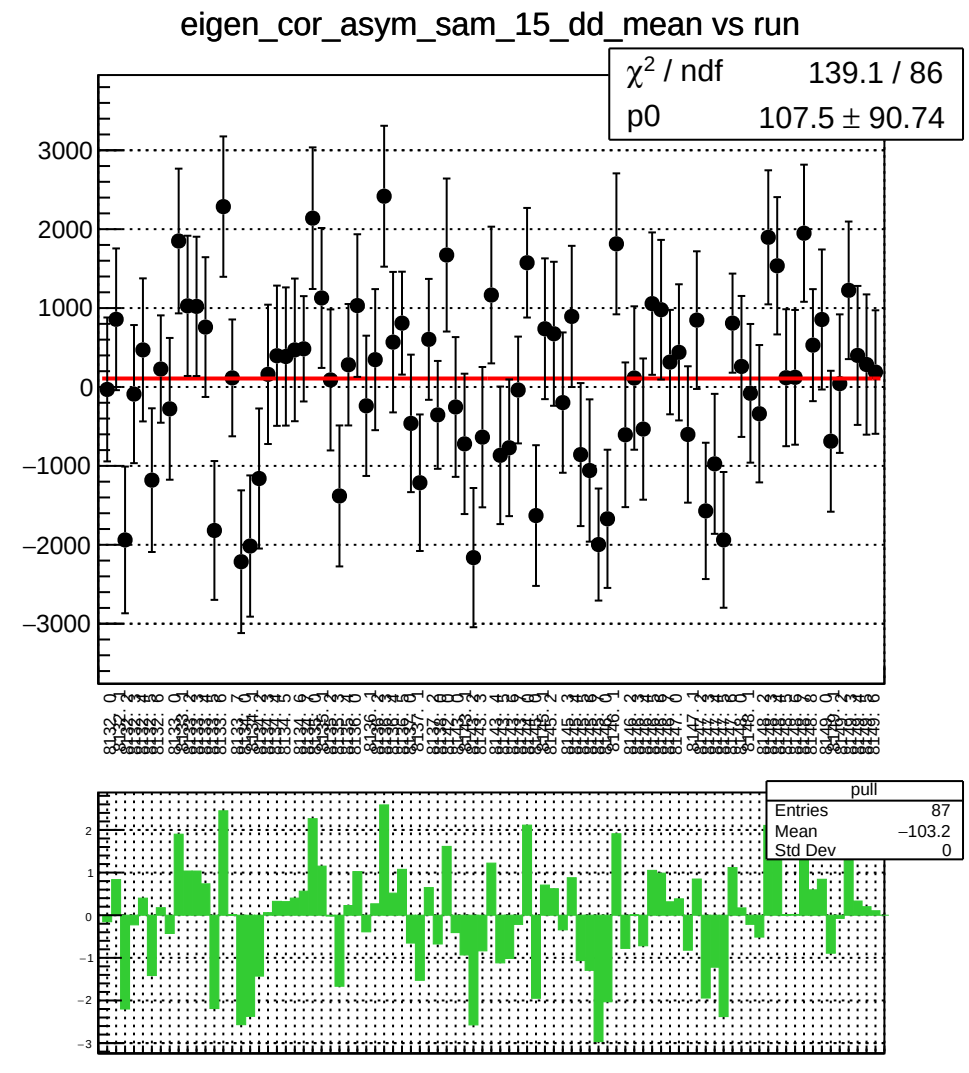

pull1D
Entries 87
Mean −0.01133
Std Dev 1.264
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

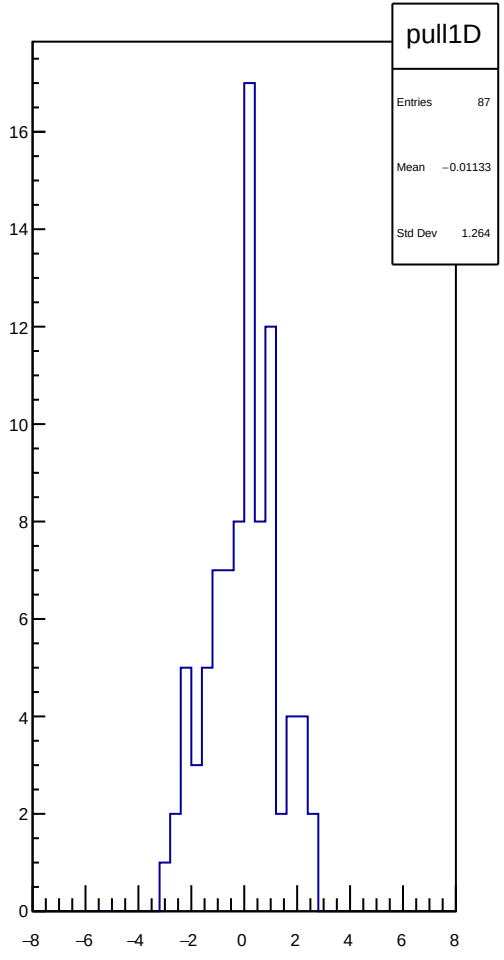

cor_asym_sam_15_dd_rms vs run
χ^2 / ndf 478.6 / 86
p0 84.11 ± 0.06416
88
86
84
82
80

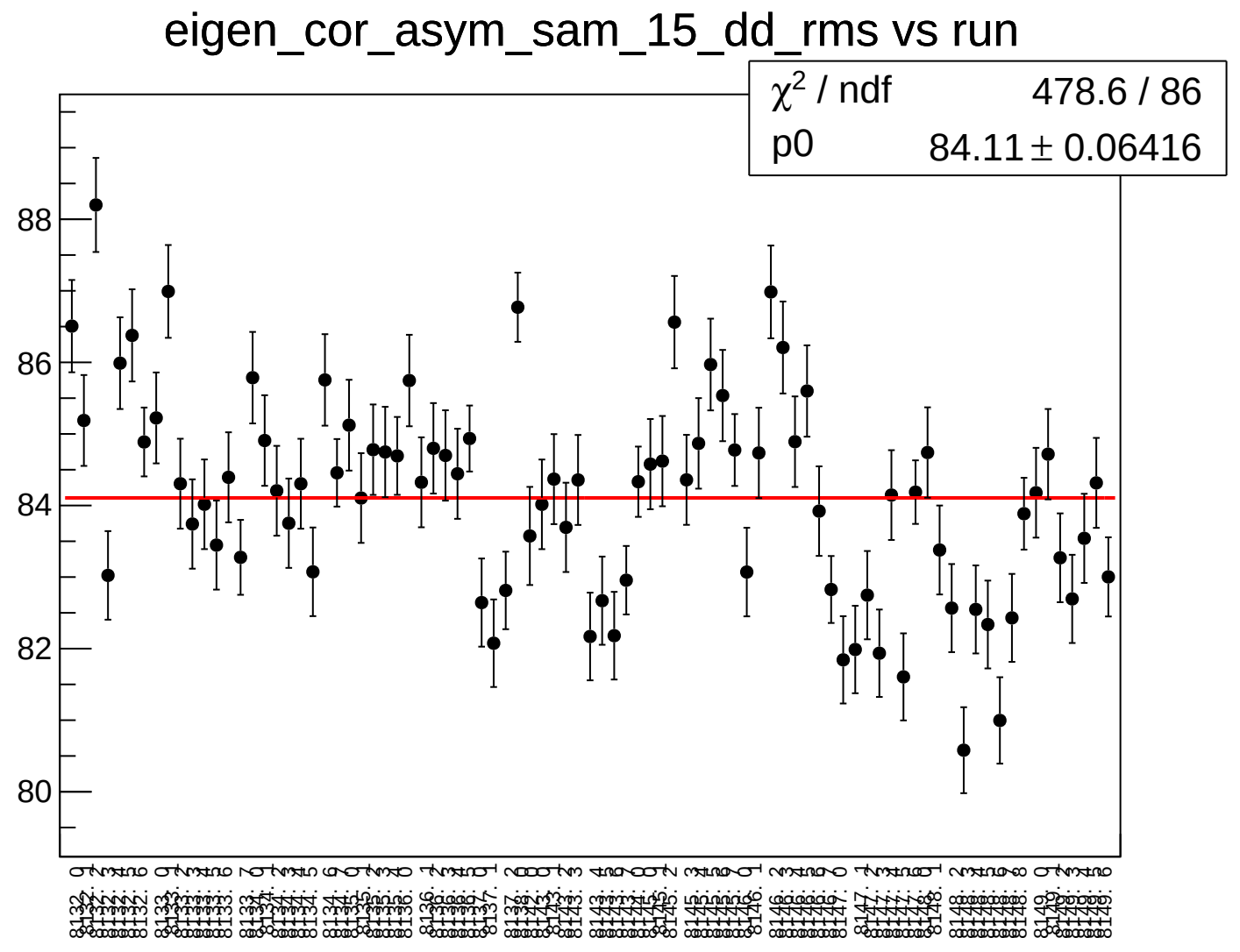

asym_sam_15_dd_cor_correction_mean vs run
χ² / ndf 103.7 / 86
p0 338.9 ± 636.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean 306.3
Std Dev 0
2
1
0
−1
−2
−3
−4

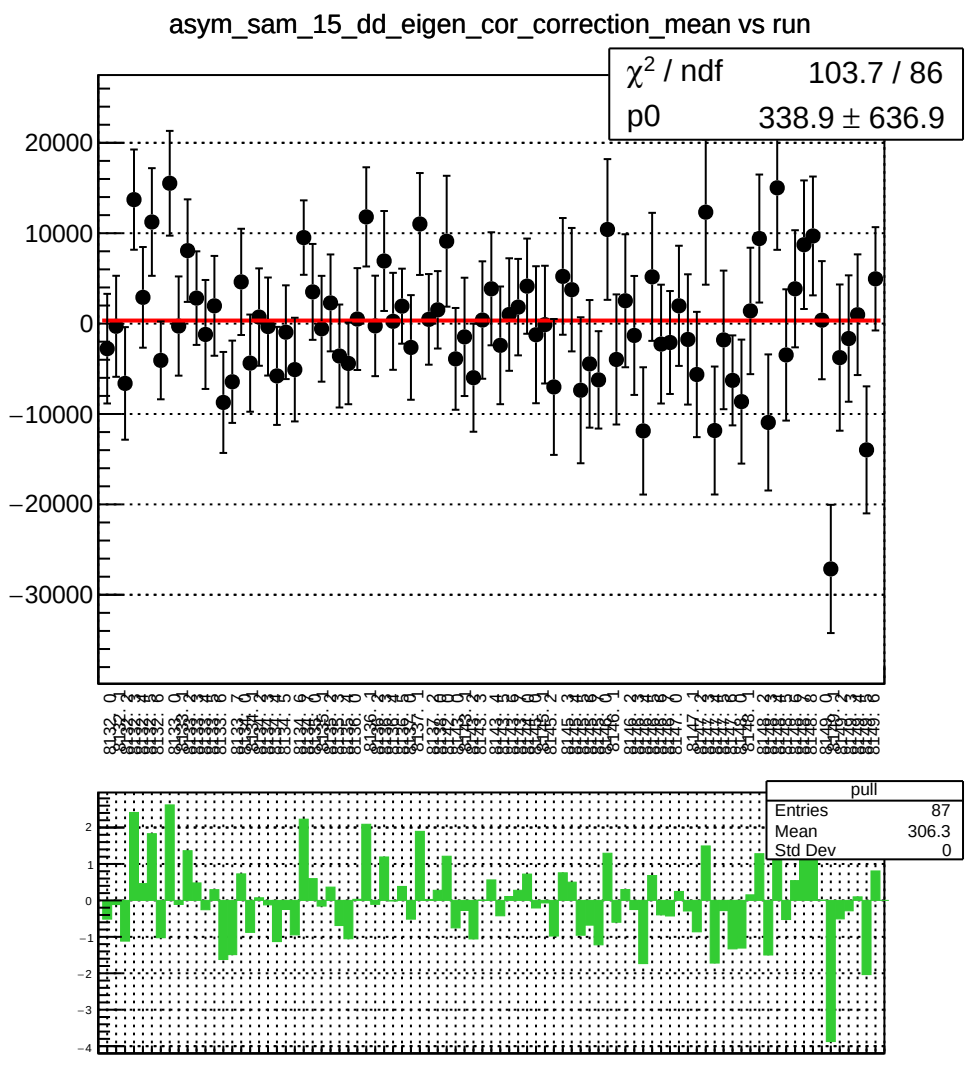

pull1D
Entries 87
Mean −0.01724
Std Dev 1.092
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

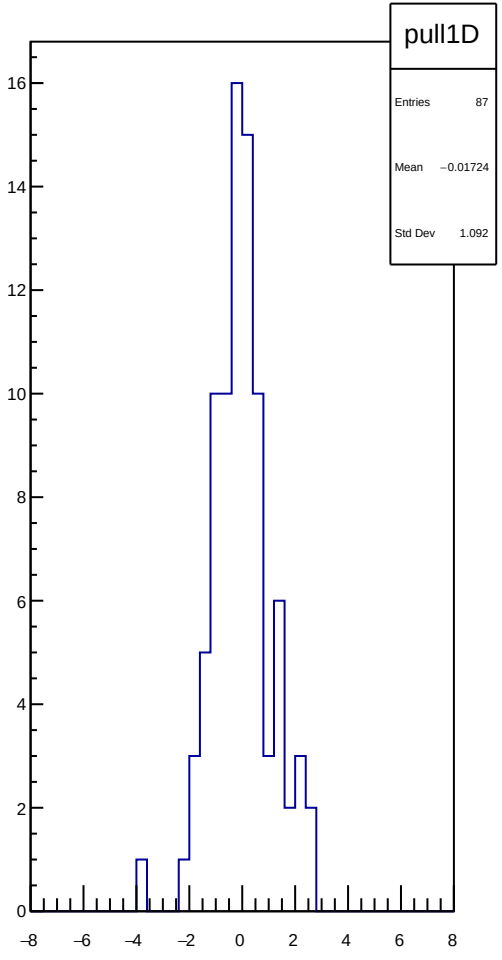

asym_sam_15_dd_cor_correction_rms vs run
χ² / ndf 2.612e+04 / 86
p0 585.9 ± 0.4503
800
750
700
650
600
550
500


eigen_cor_asym_sam_15_dd_mean vs run
χ² / ndf 139.1 / 86
p0 107.5 ± 90.74
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 87
Mean −103.2
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 87
Mean −0.01133
Std Dev 1.264
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 478.6 / 86
p0 84.11 ± 0.06416
88
86
84
82
80


asym_sam_15_dd_eigen_cor_correction_mean vs run
χ² / ndf 103.7 / 86
p0 338.9 ± 636.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean 306.3
Std Dev 0
2
1
0
−1
−2
−3
−4


pull1D
Entries 87
Mean −0.01724
Std Dev 1.092
16
14
12
10
8
6
4
2
0
−8
−6
−4
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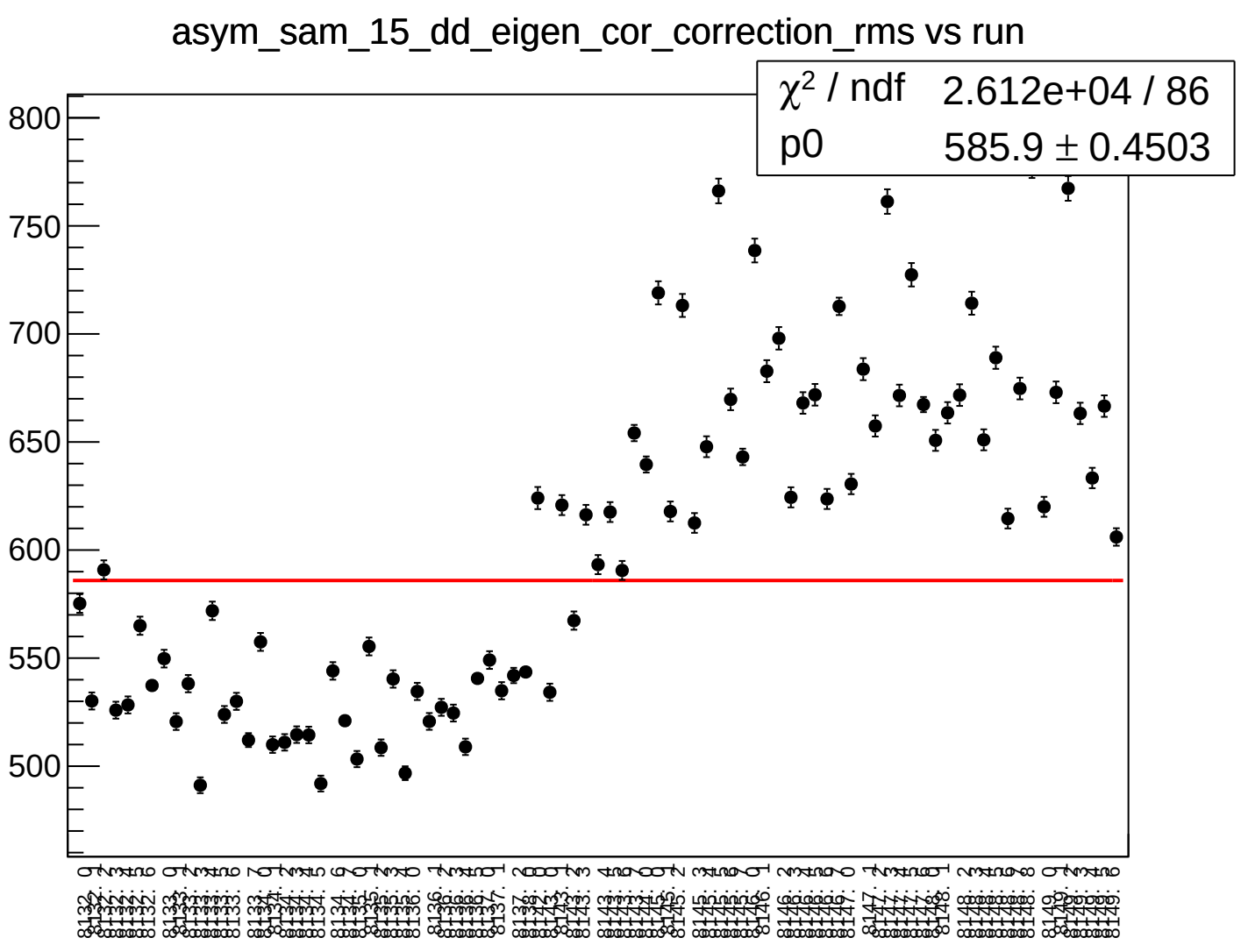
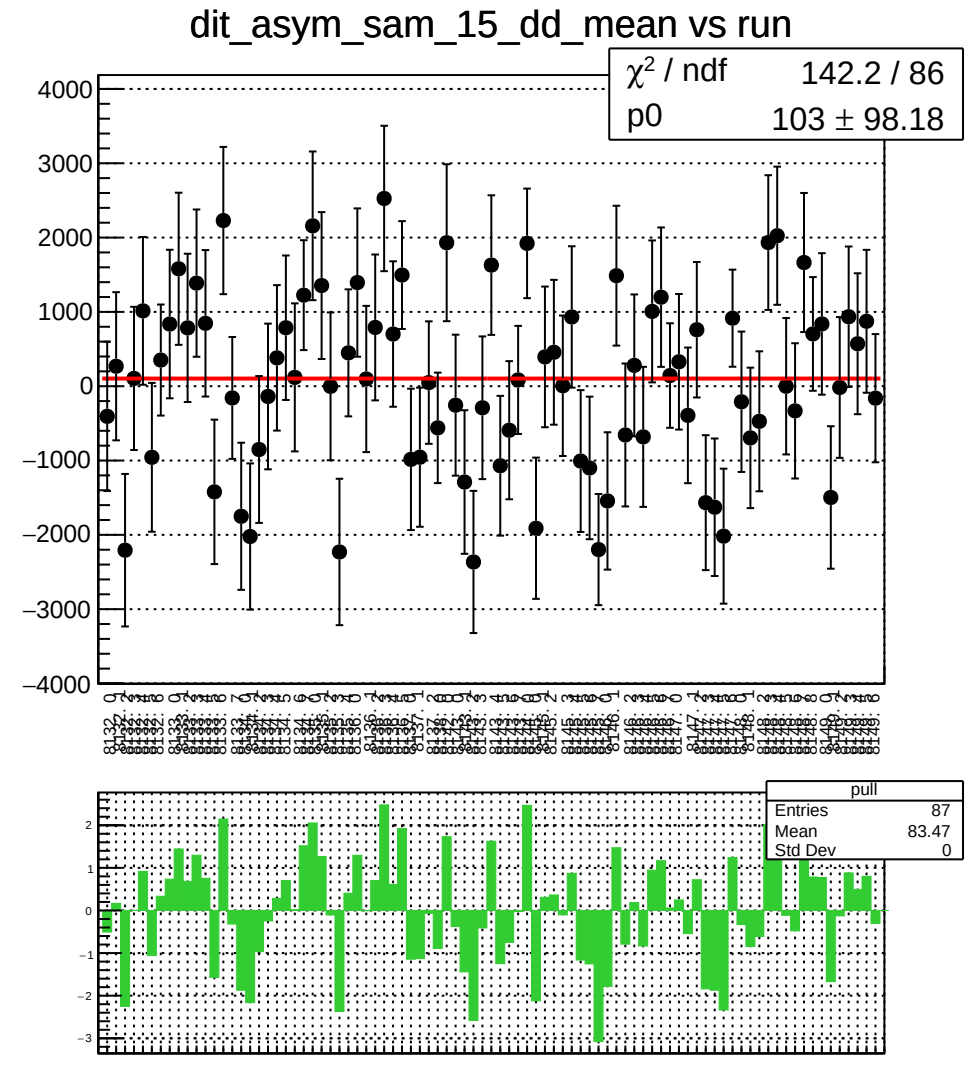
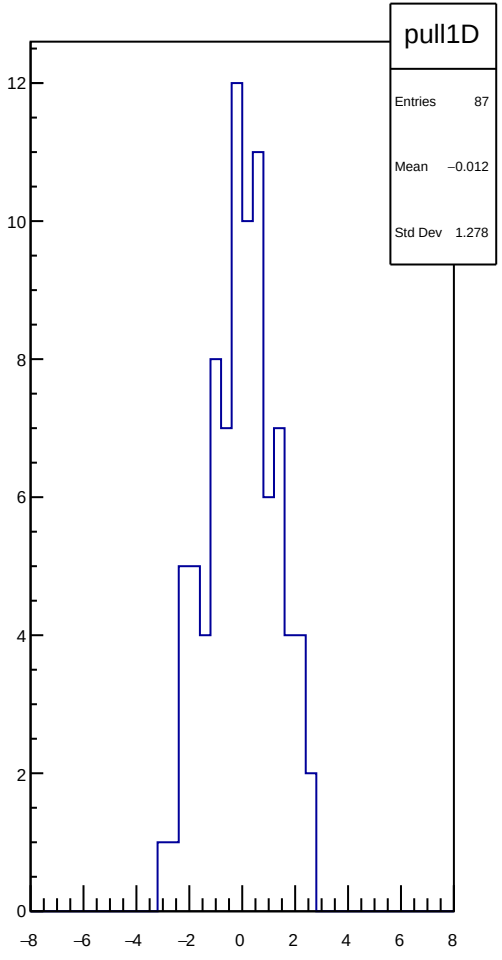
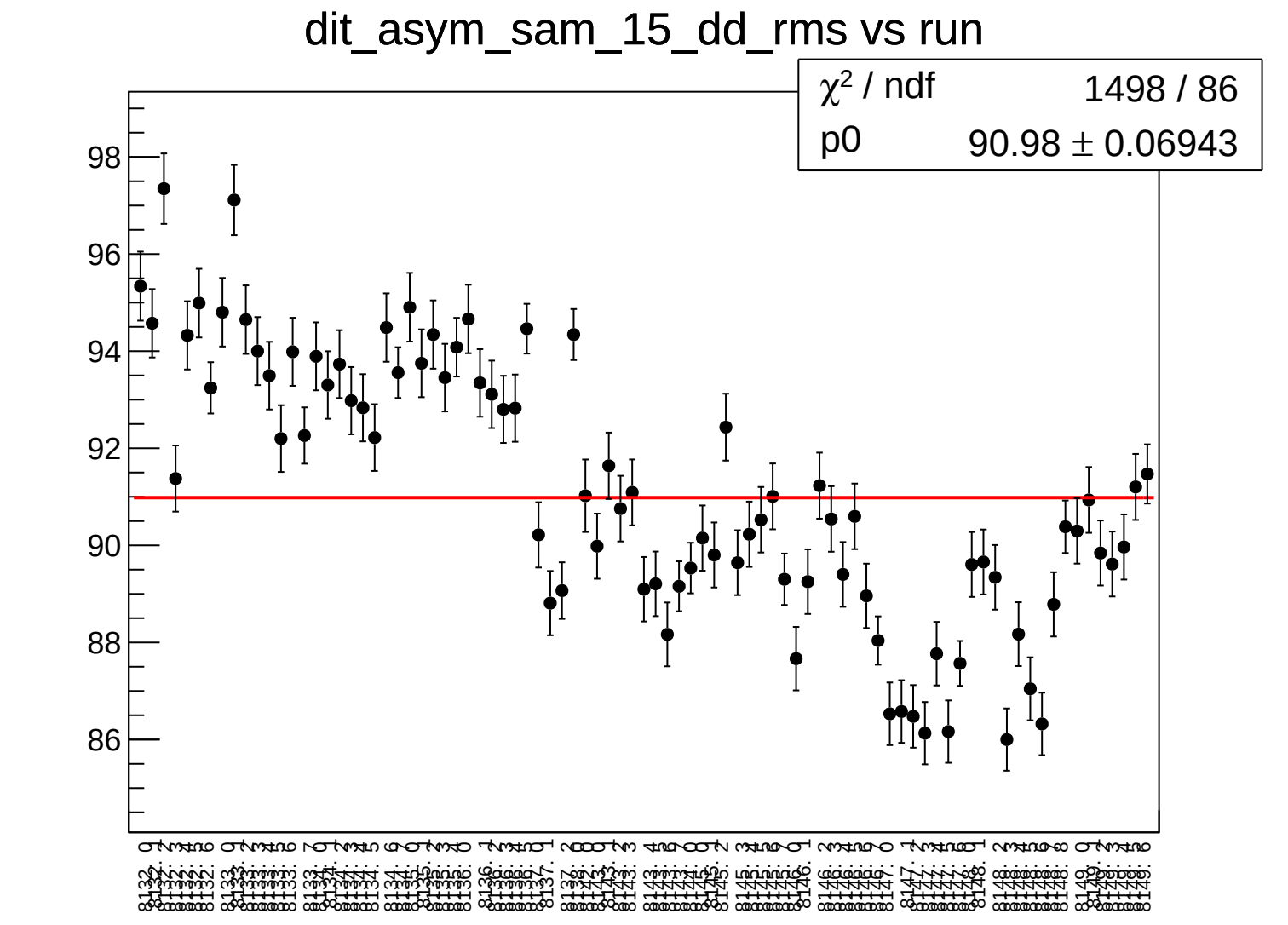
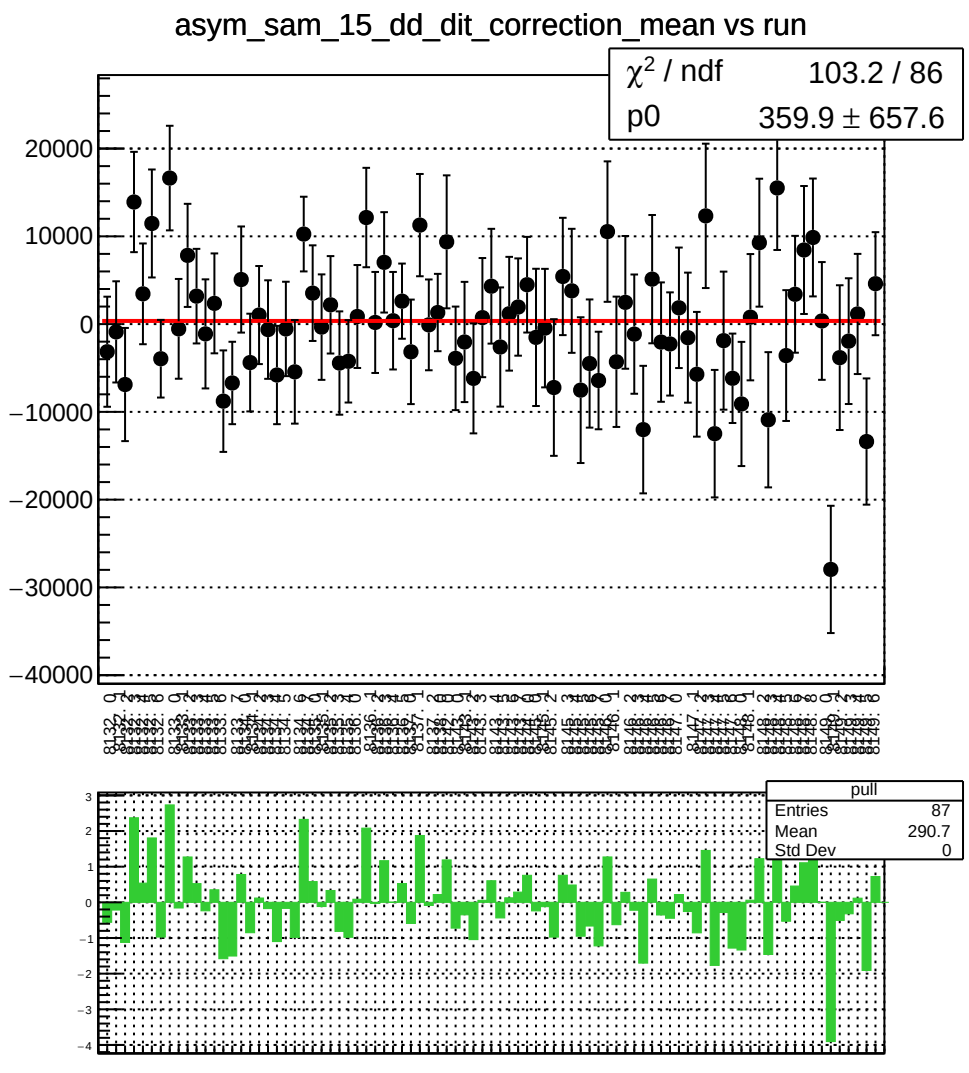
0
2
4
6
8

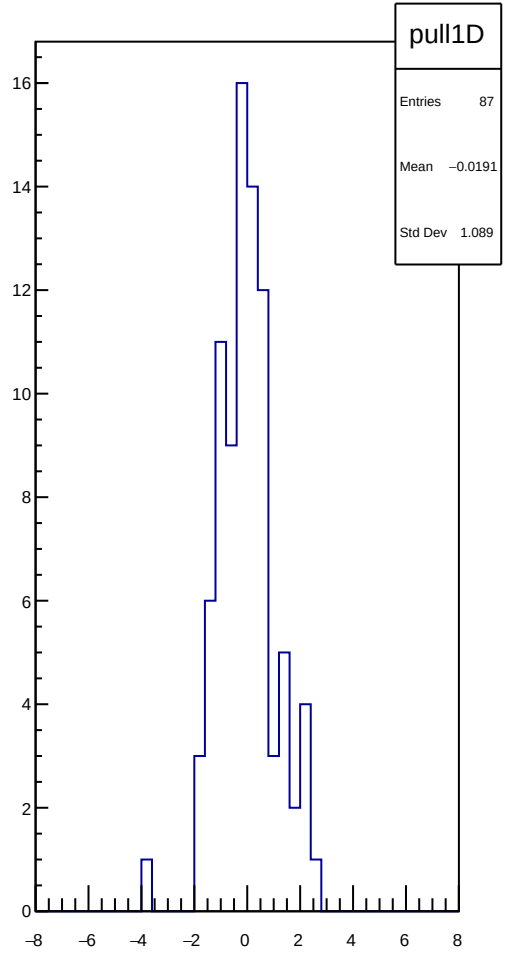

asym_sam_15_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.612e+04 / 86
p0 585.9 ± 0.4503
800
750
700
650
600
550
500

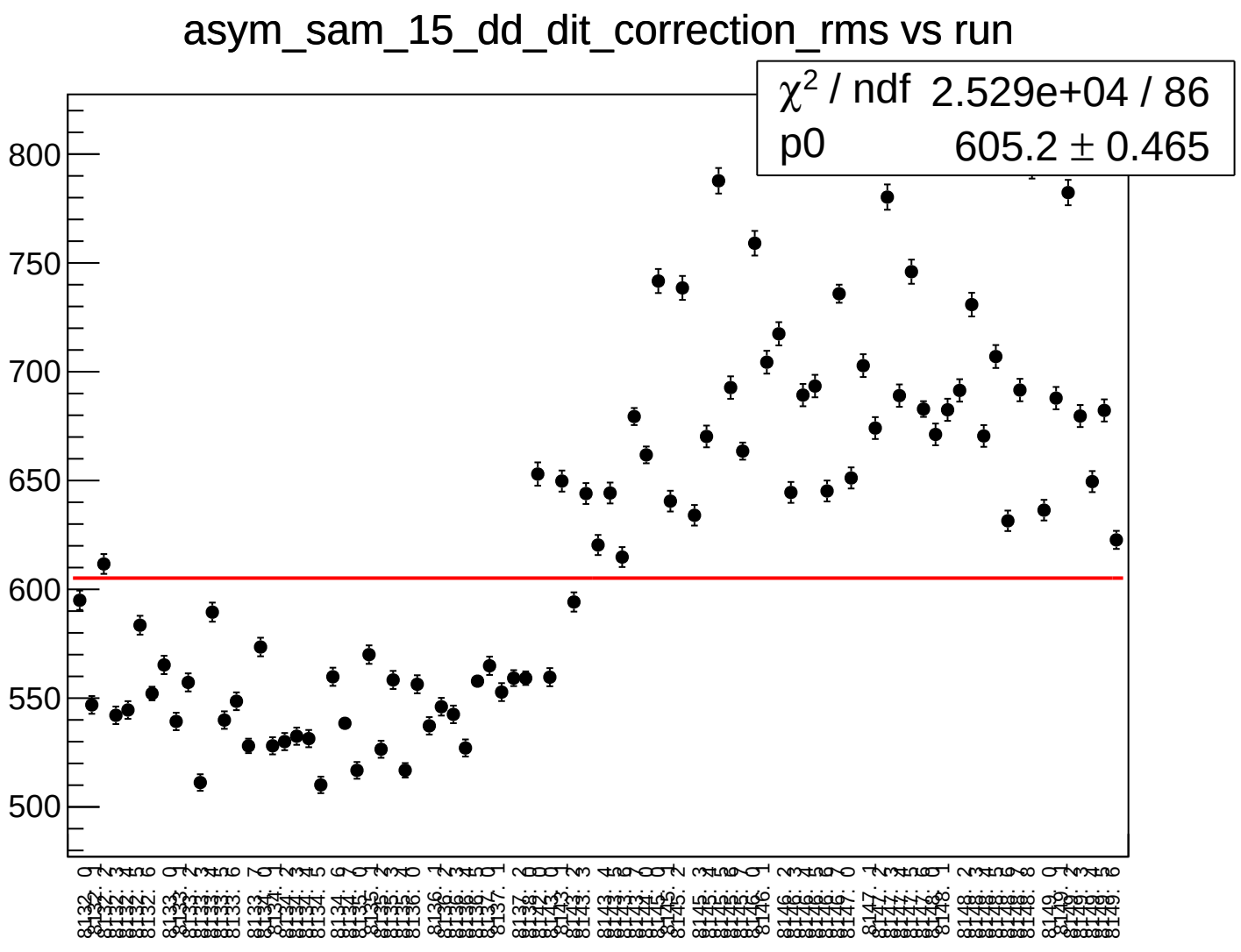

dit_asym_sam_15_dd_mean vs run
χ² / ndf 142.2 / 86
p0 103 ± 98.18
pull
Entries 87
Mean 83.47
Std Dev 0

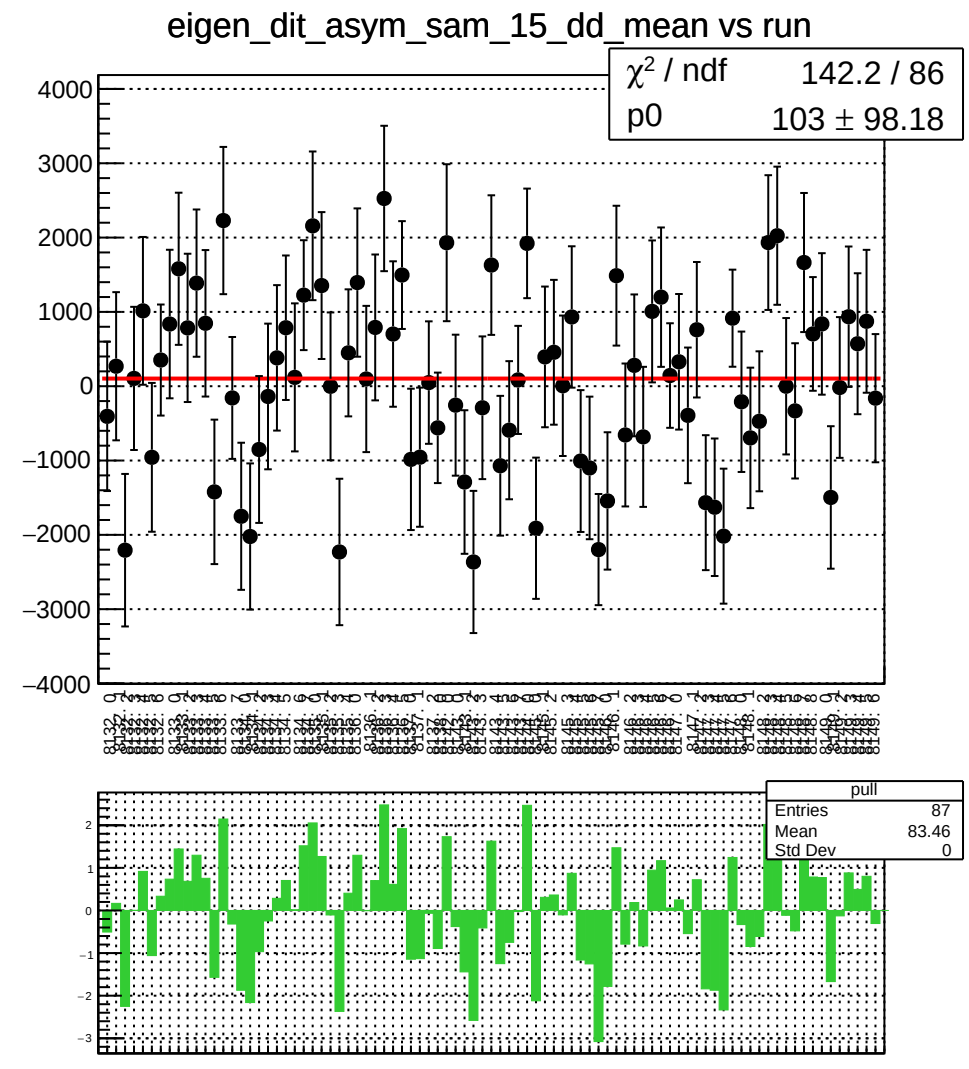

pull1D
Entries 87
Mean −0.012
Std Dev 1.278

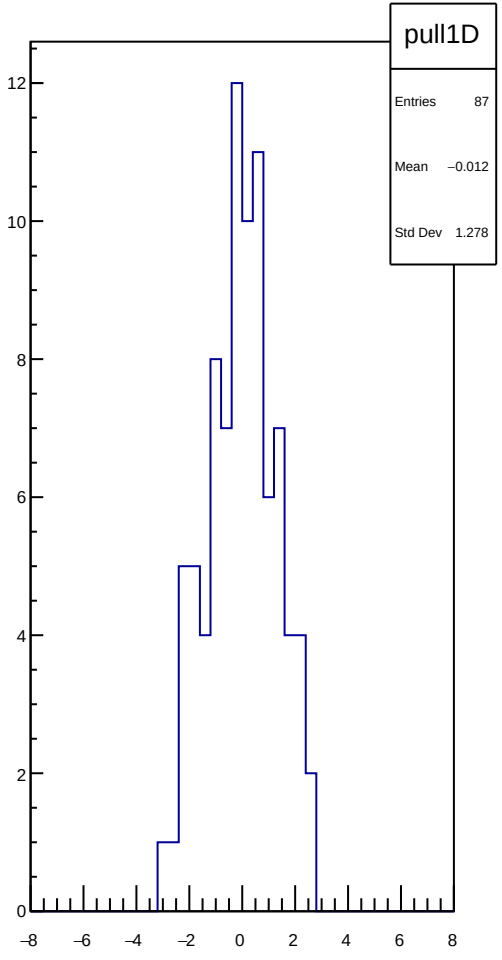

dit_asym_sam_15_dd_rms vs run
χ^2 / ndf 1498 / 86
p0 90.98 ± 0.06943
98
96
94
92
90
88
86


asym_sam_15_dd_dit_correction_mean vs run
χ² / ndf 103.2 / 86
p0 359.9 ± 657.6
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 87
Mean 290.7
Std Dev 0
3
2
1
0
−1
−2
−3
−4

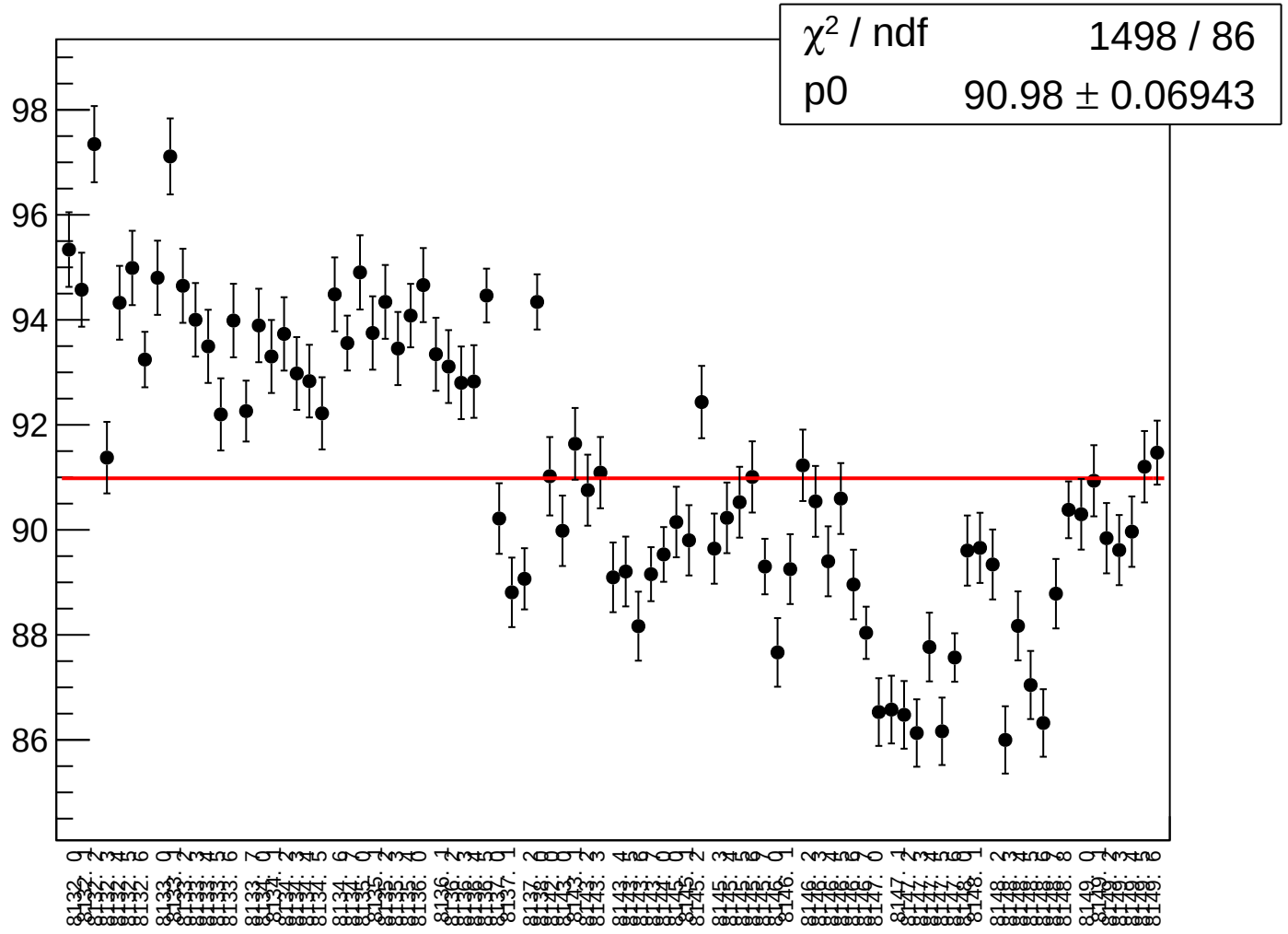

pull1D
Entries 87
Mean −0.0191
Std Dev 1.089
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

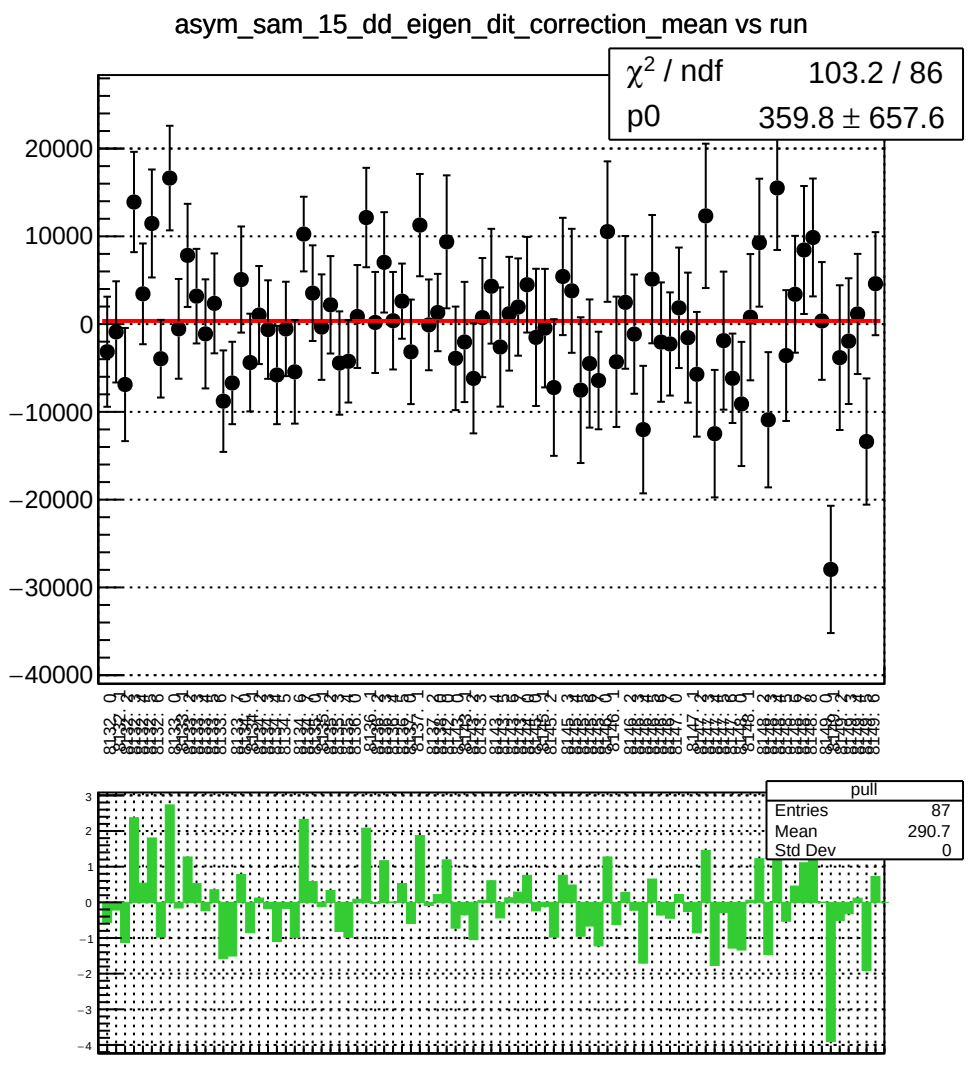

asym_sam_15_dd_dit_correction_rms vs run
χ² / ndf 2.529e+04 / 86
p0 605.2 ± 0.465
800
750
700
650
600
550
500

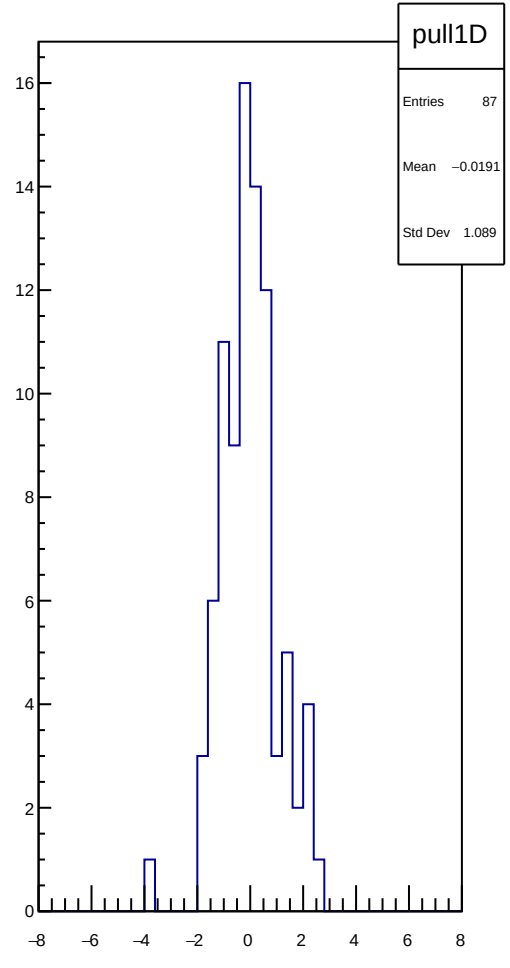

eigen_dit_asym_sam_15_dd_mean vs run
χ² / ndf 142.2 / 86
p0 103 ± 98.18
pull
Entries 87
Mean 83.46
Std Dev 0

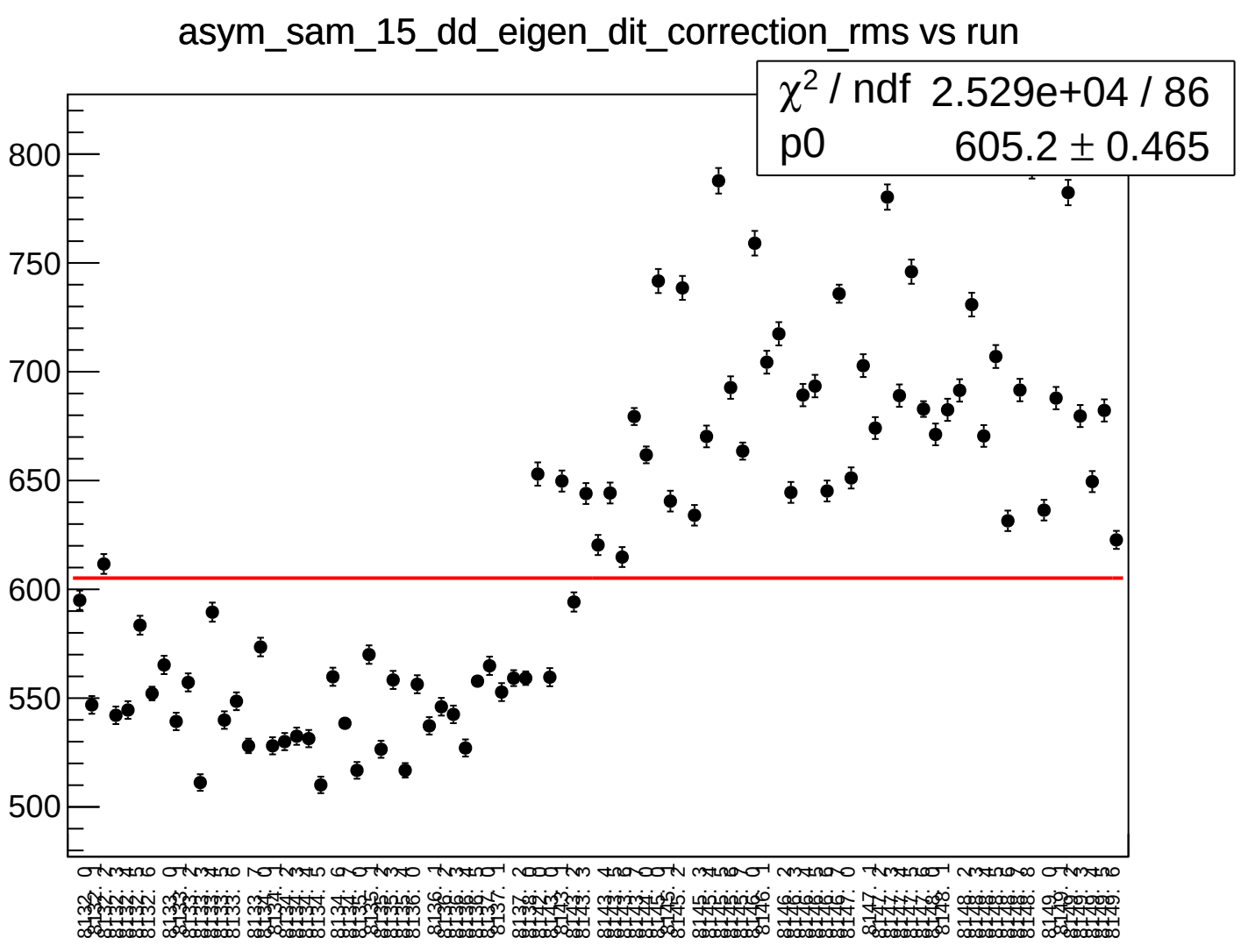

pull1D
Entries 87
Mean −0.012
Std Dev 1.278

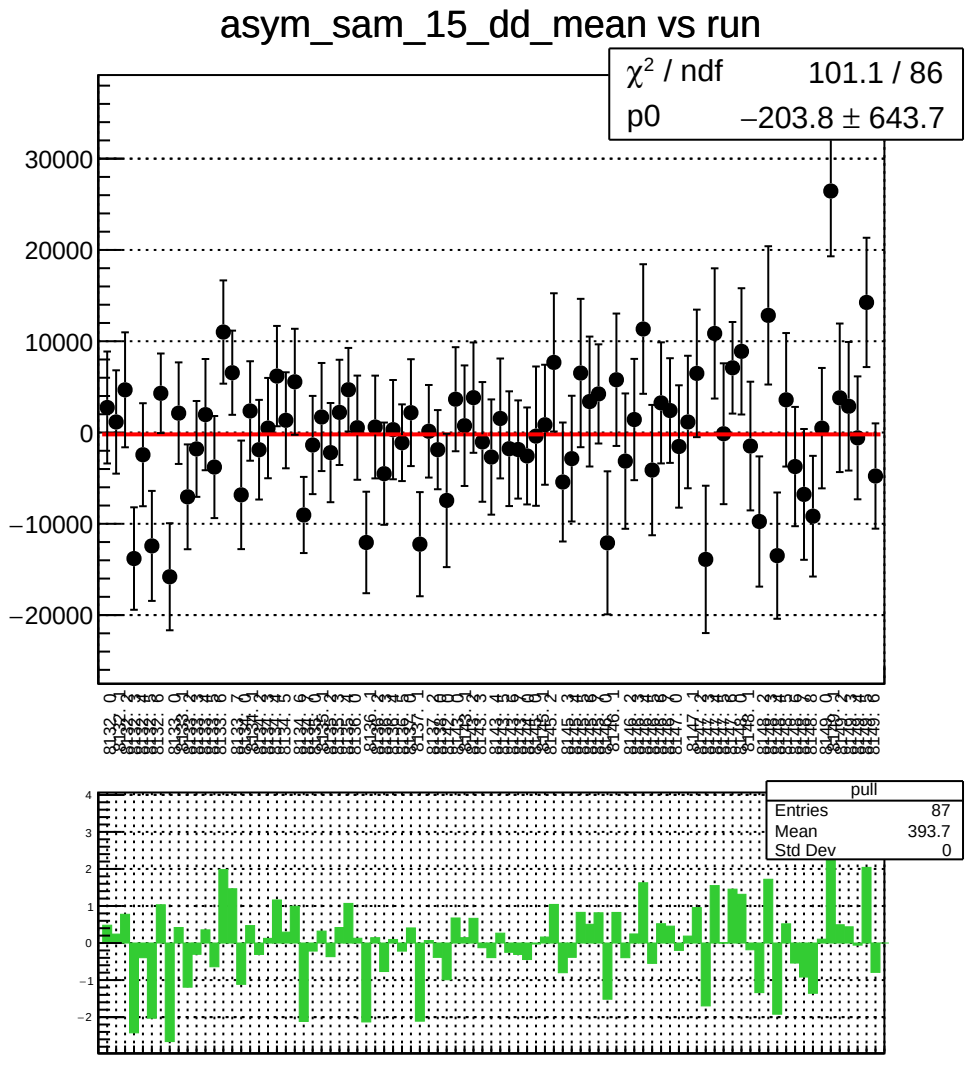
eigen_dit_asym_sam_15_dd_rms vs run

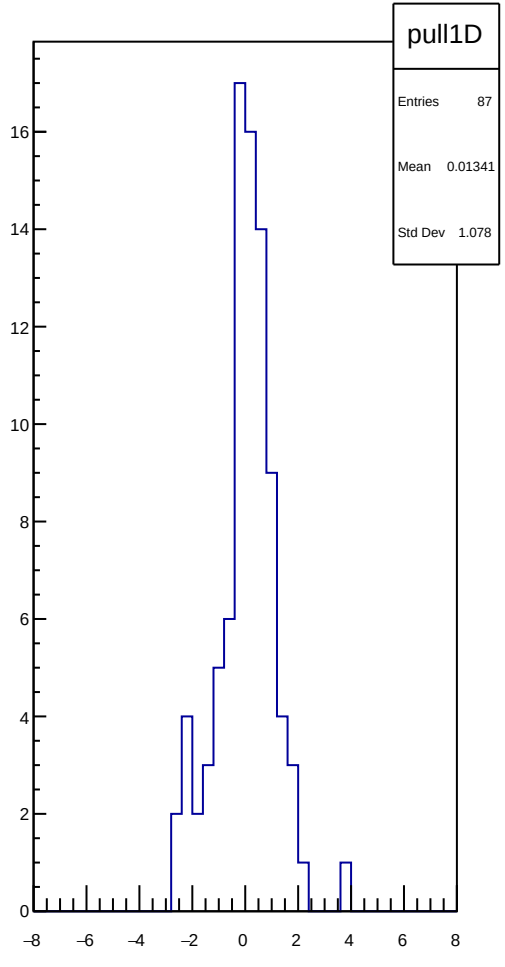


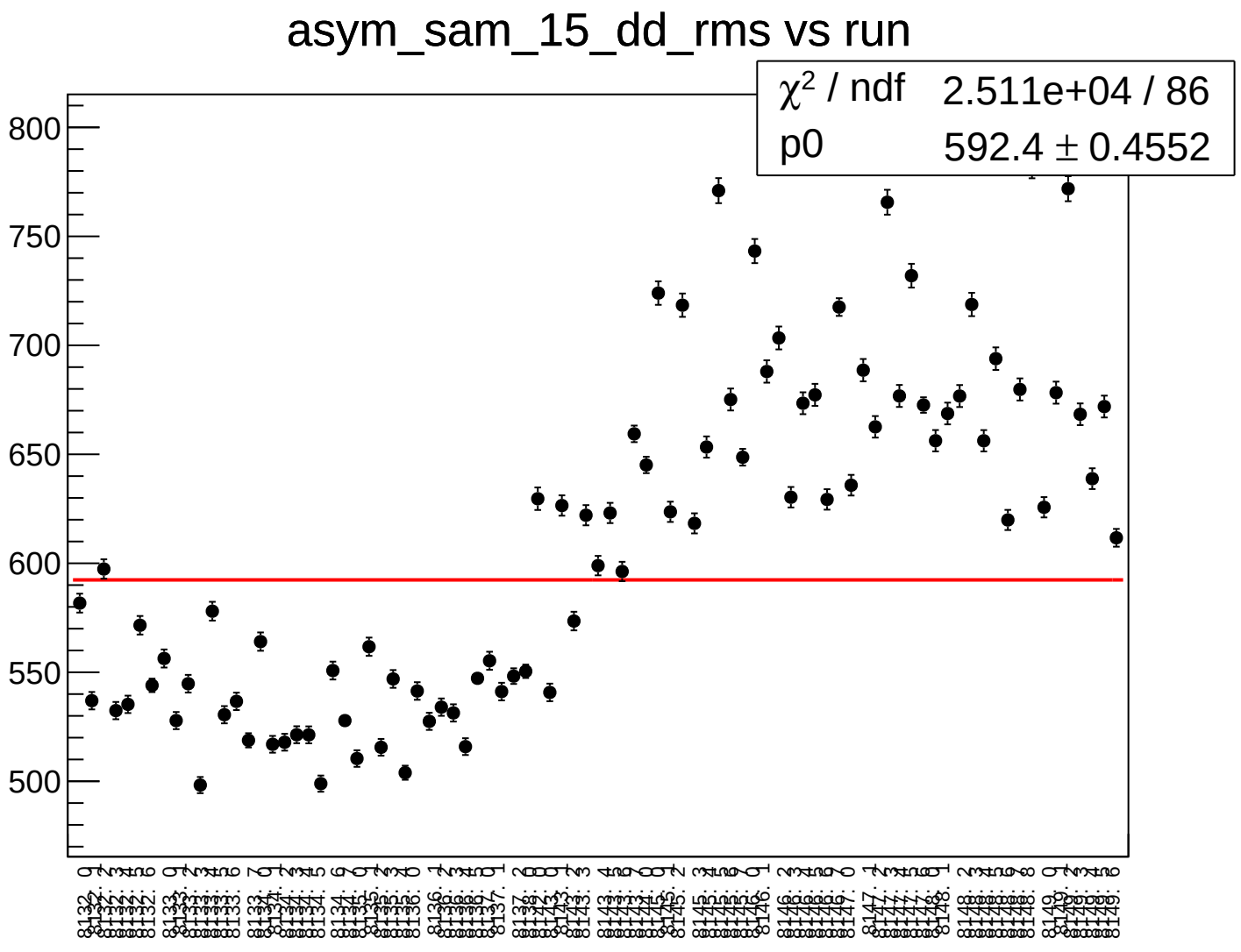

asym_sam_15_dd_eigen_dit_correction_mean vs run
χ² / ndf 103.2 / 86
p0 359.8 ± 657.6
pull
Entries 87
Mean 290.7
Std Dev 0

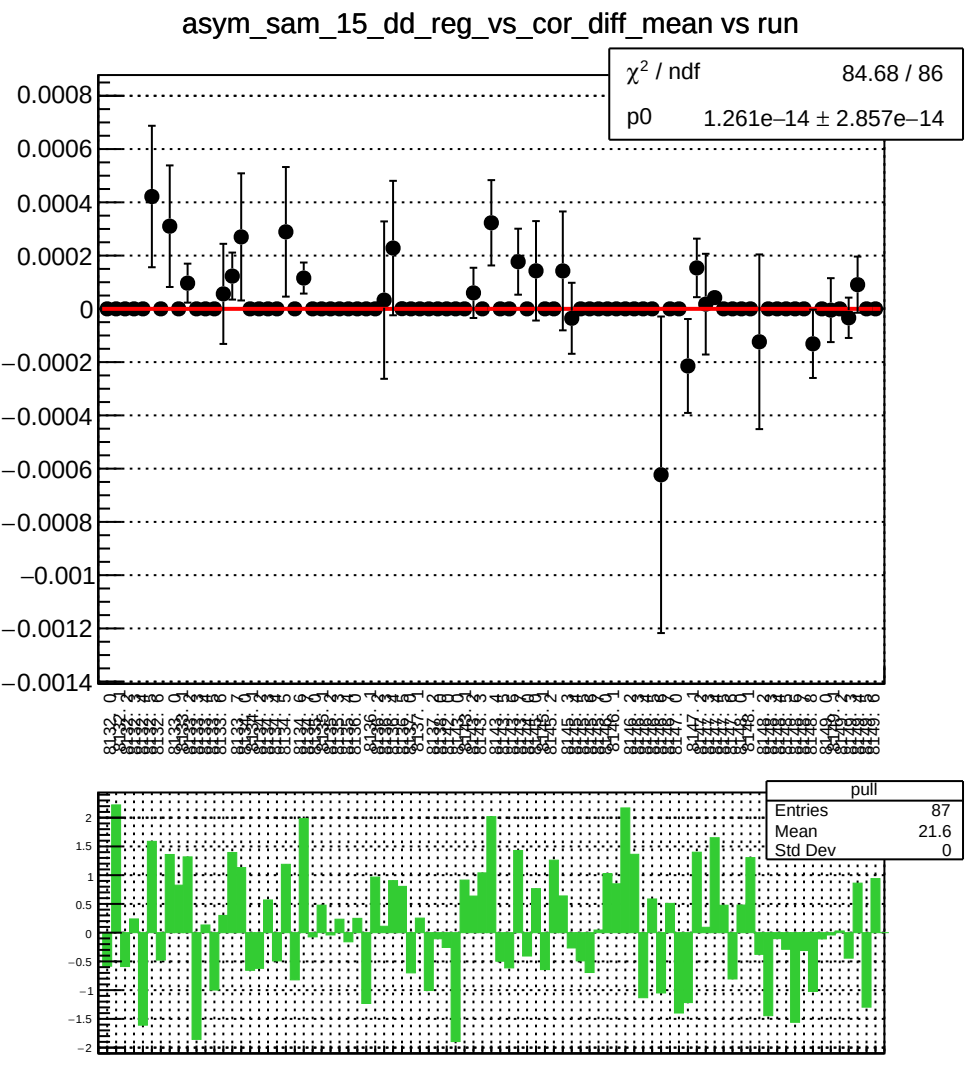

pull1D
Entries 87
Mean −0.0191
Std Dev 1.089

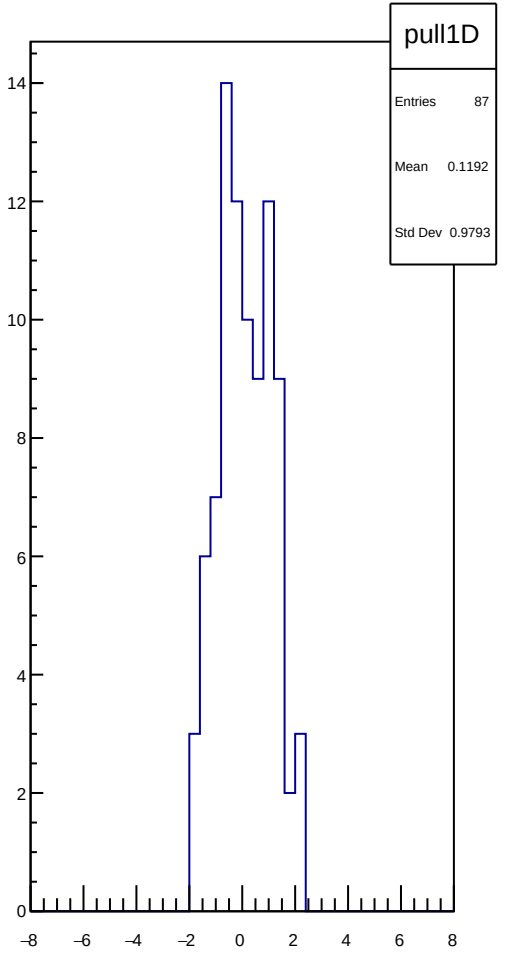

asym_sam_15_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.529e+04 / 86
p0 605.2 ± 0.465
800
750
700
650
600
550
500

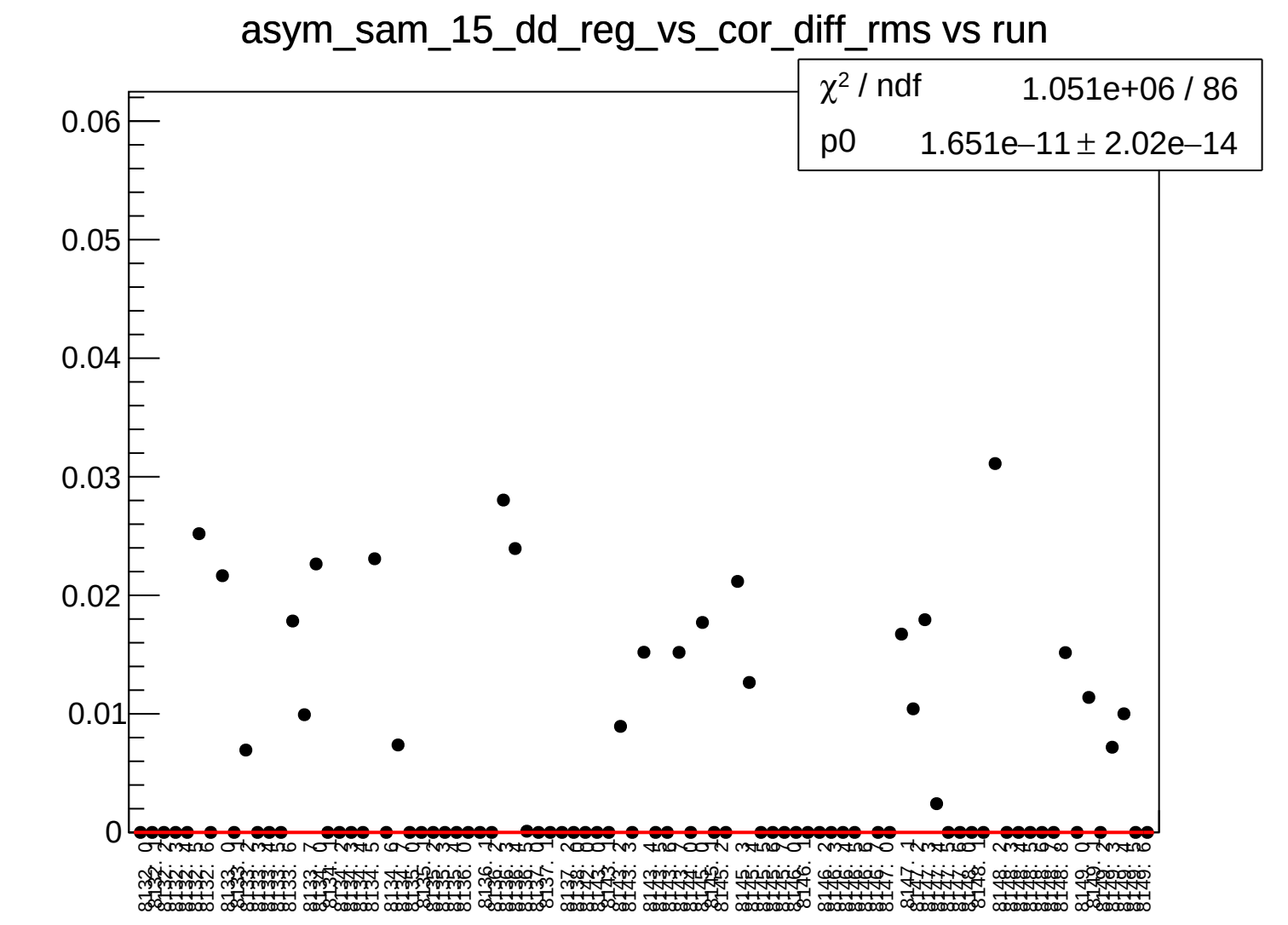

asym_sam_15_dd_mean vs run
χ² / ndf 101.1 / 86
p0 −203.8 ± 643.7
30000
20000
10000
0
−10000
−20000
pull
Entries 87
Mean 393.7
Std Dev 0
4
3
2
1
0
−1
−2

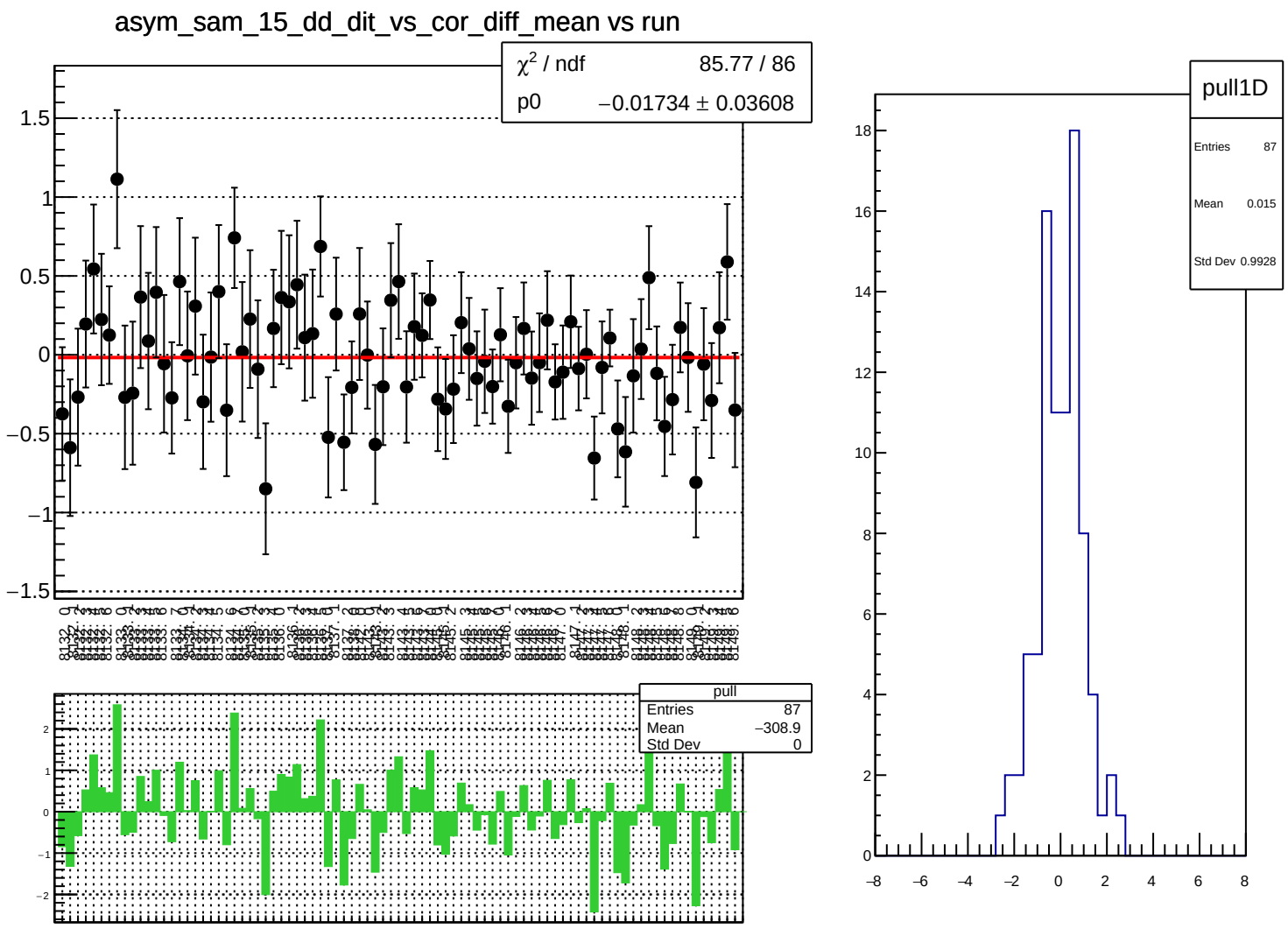

pull1D
Entries 87
Mean 0.01341
Std Dev 1.078
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

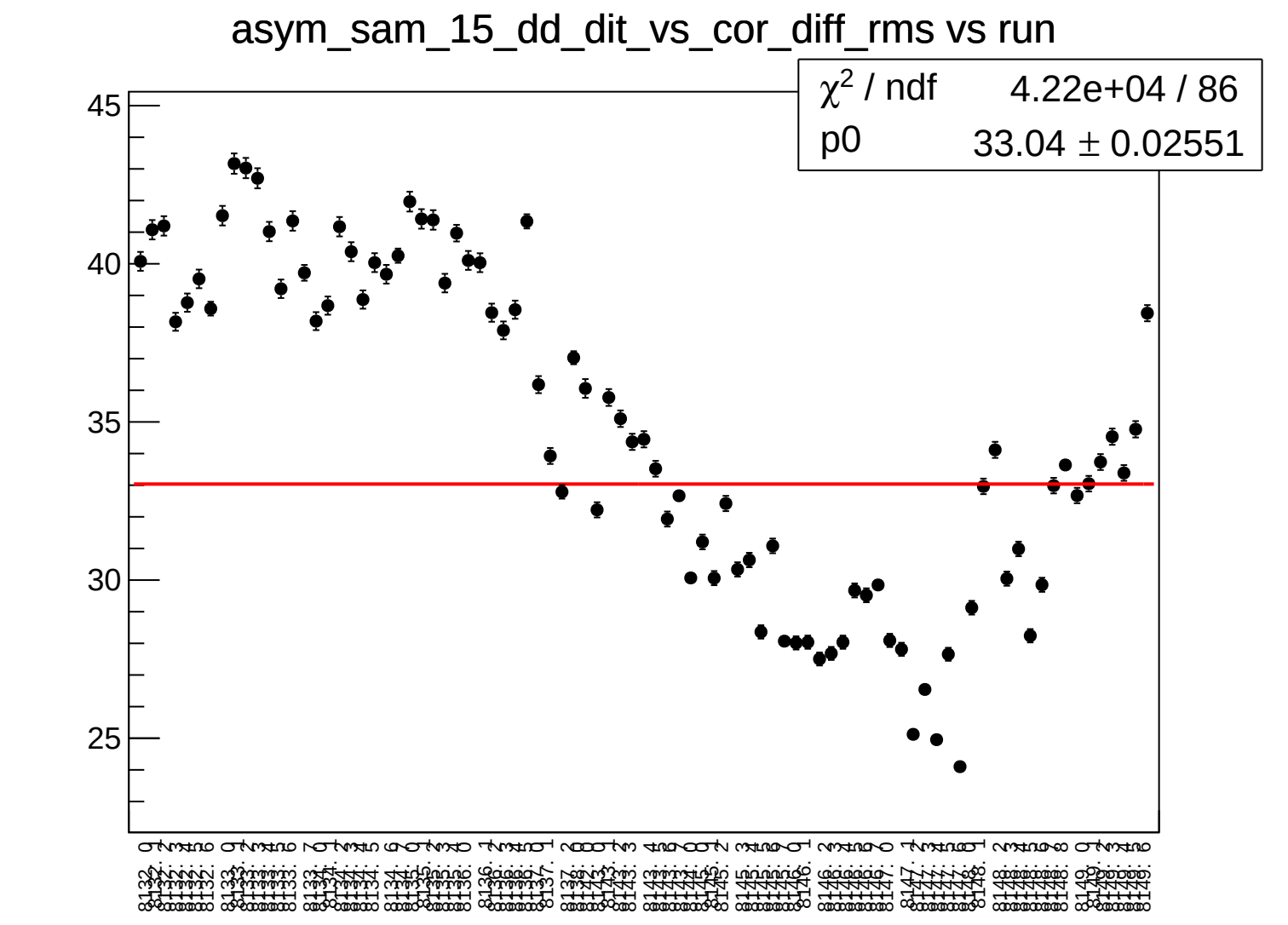

asym_sam_15_dd_rms vs run
χ² / ndf 2.511e+04 / 86
p0 592.4 ± 0.4552
800
750
700
650
600
550
500

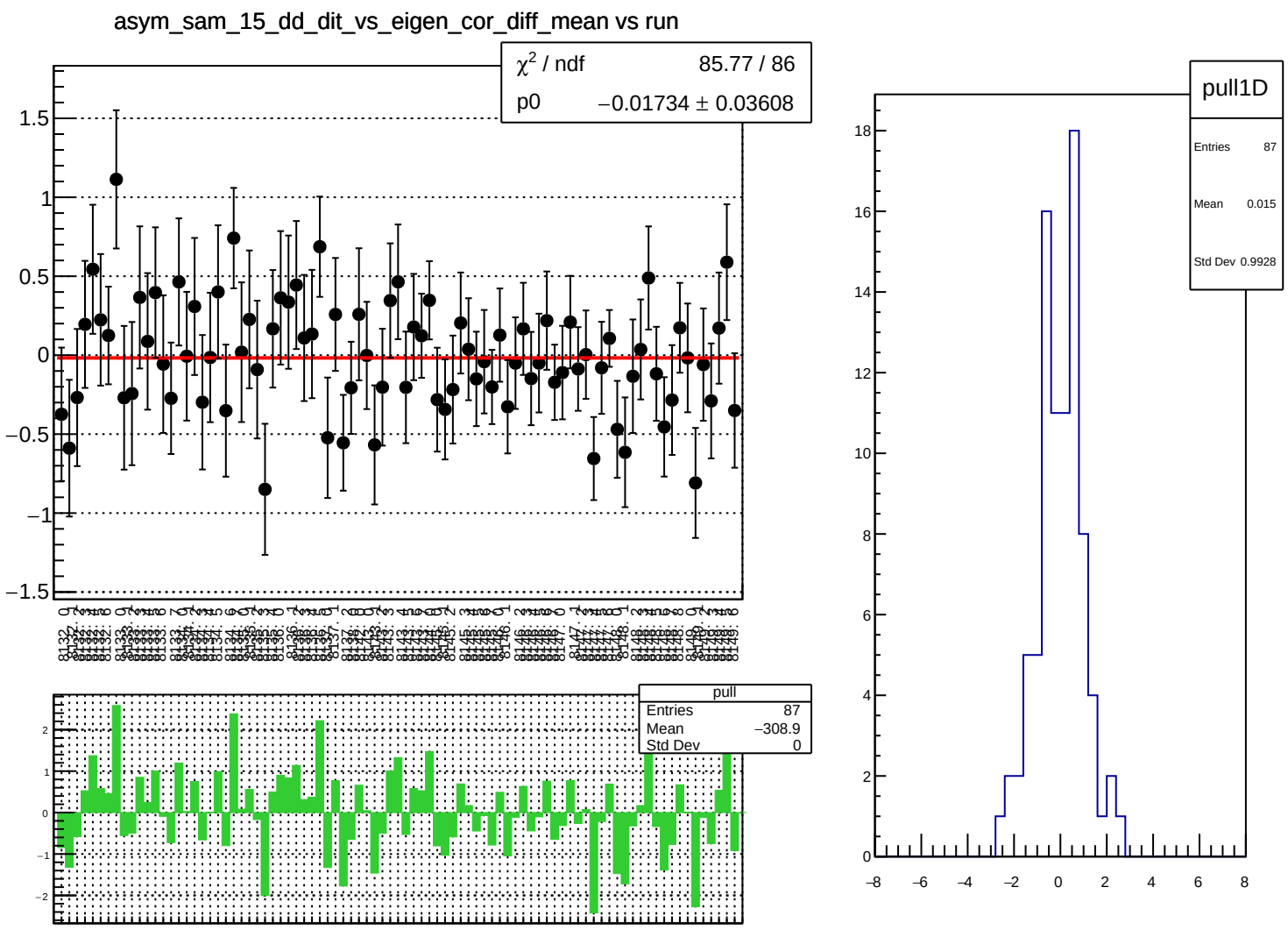

asym_sam_15_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 84.68 / 86
p0 1.261e−14 ± 2.857e−14
pull
Entries 87
Mean 21.6
Std Dev 0

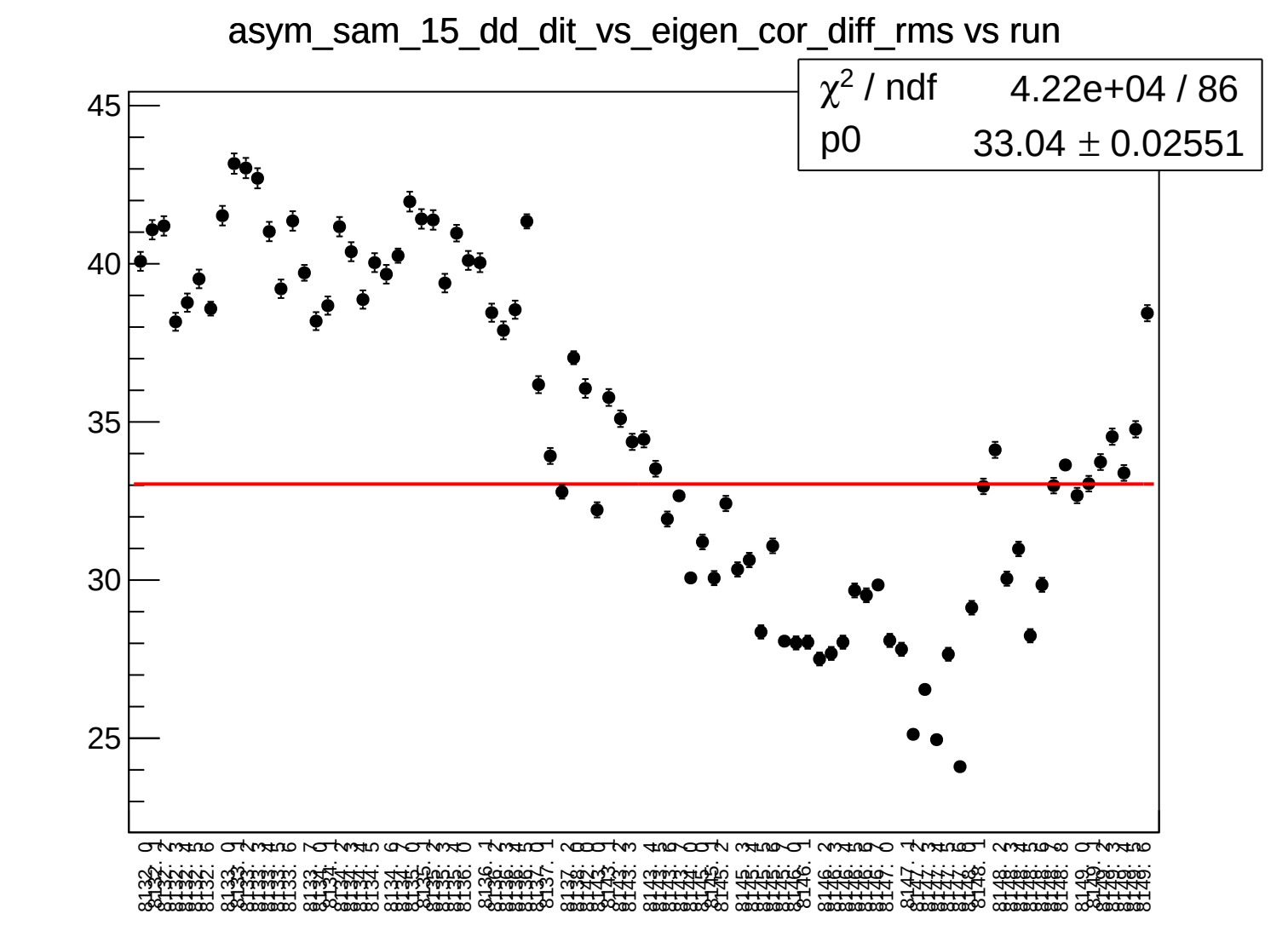

pull1D
Entries 87
Mean 0.1192
Std Dev 0.9793

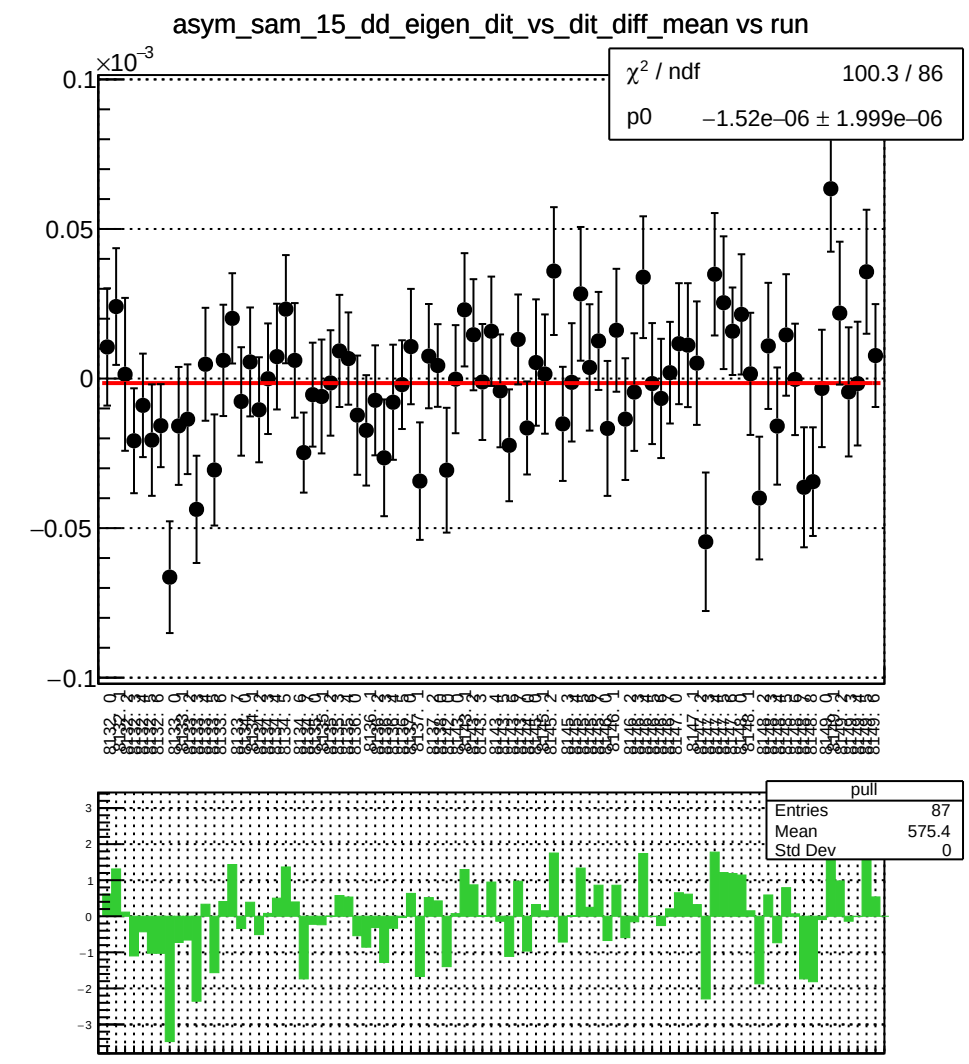

asym_sam_15_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.051e+06 / 86
p0 1.651e−11 ± 2.02e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

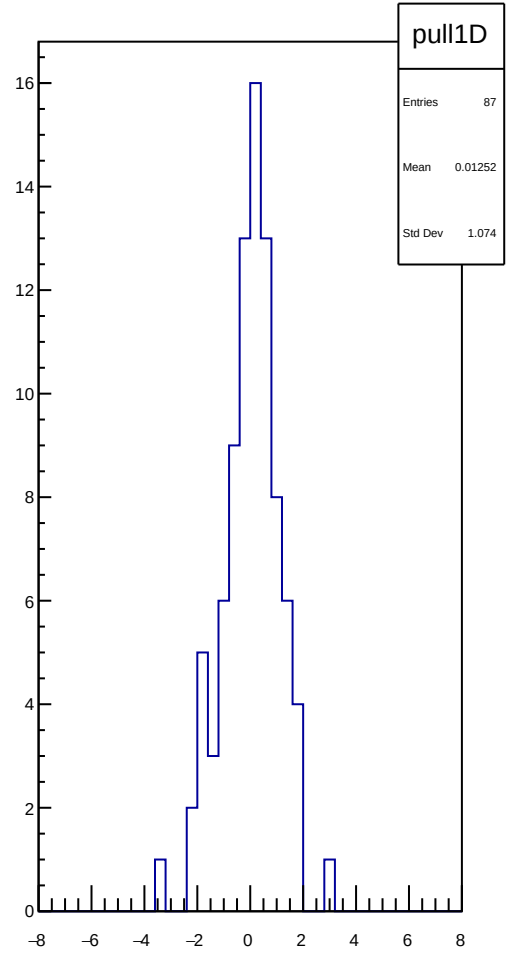

asym_sam_15_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 85.77 / 86
p0 −0.01734 ± 0.03608
pull
Entries 87
Mean −308.9
Std Dev 0
pull1D
Entries 87
Mean 0.015
Std Dev 0.9928

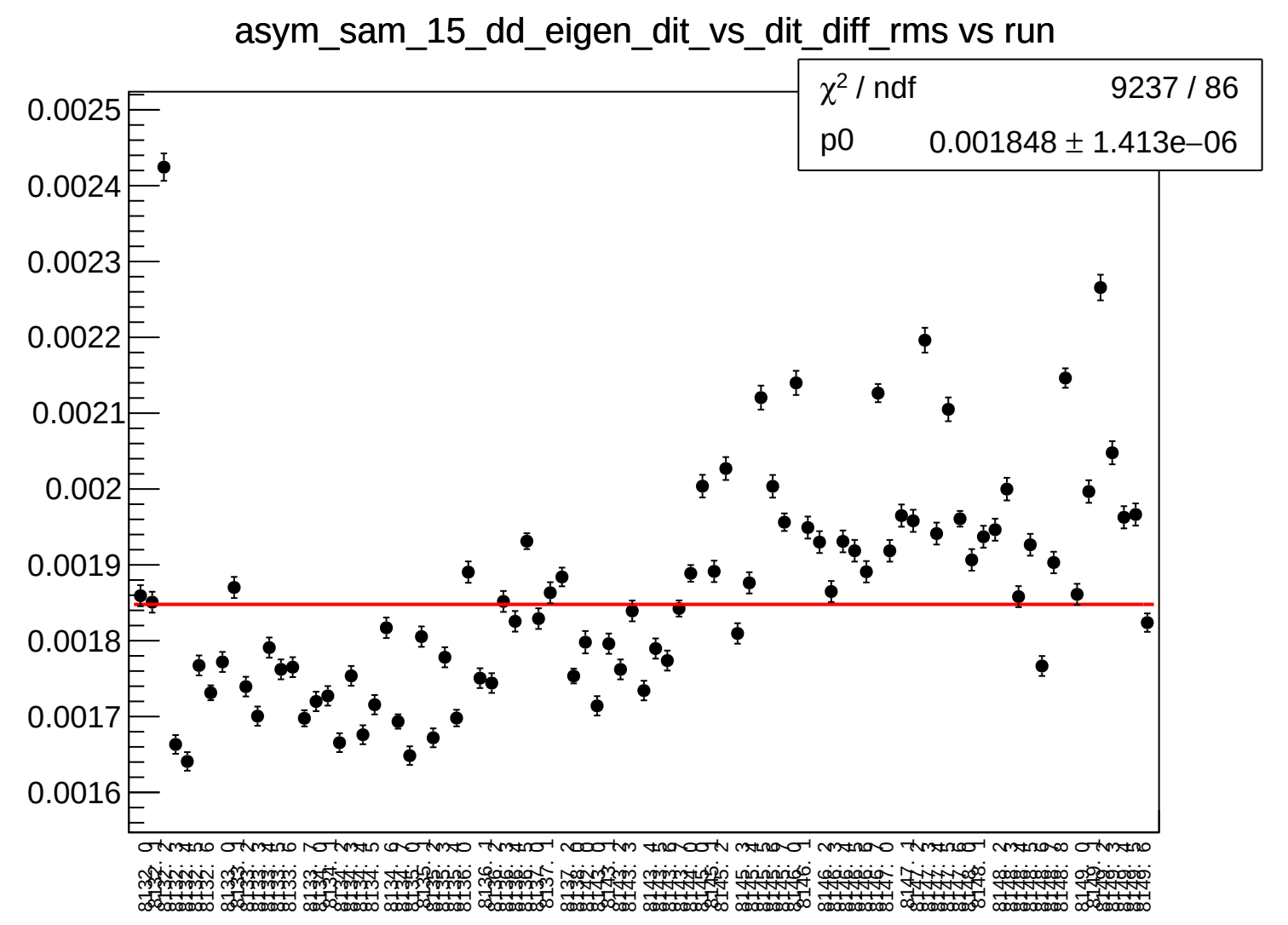

asym_sam_15_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.22e+04 / 86
p0 33.04 ± 0.02551
45
40
35
30
25

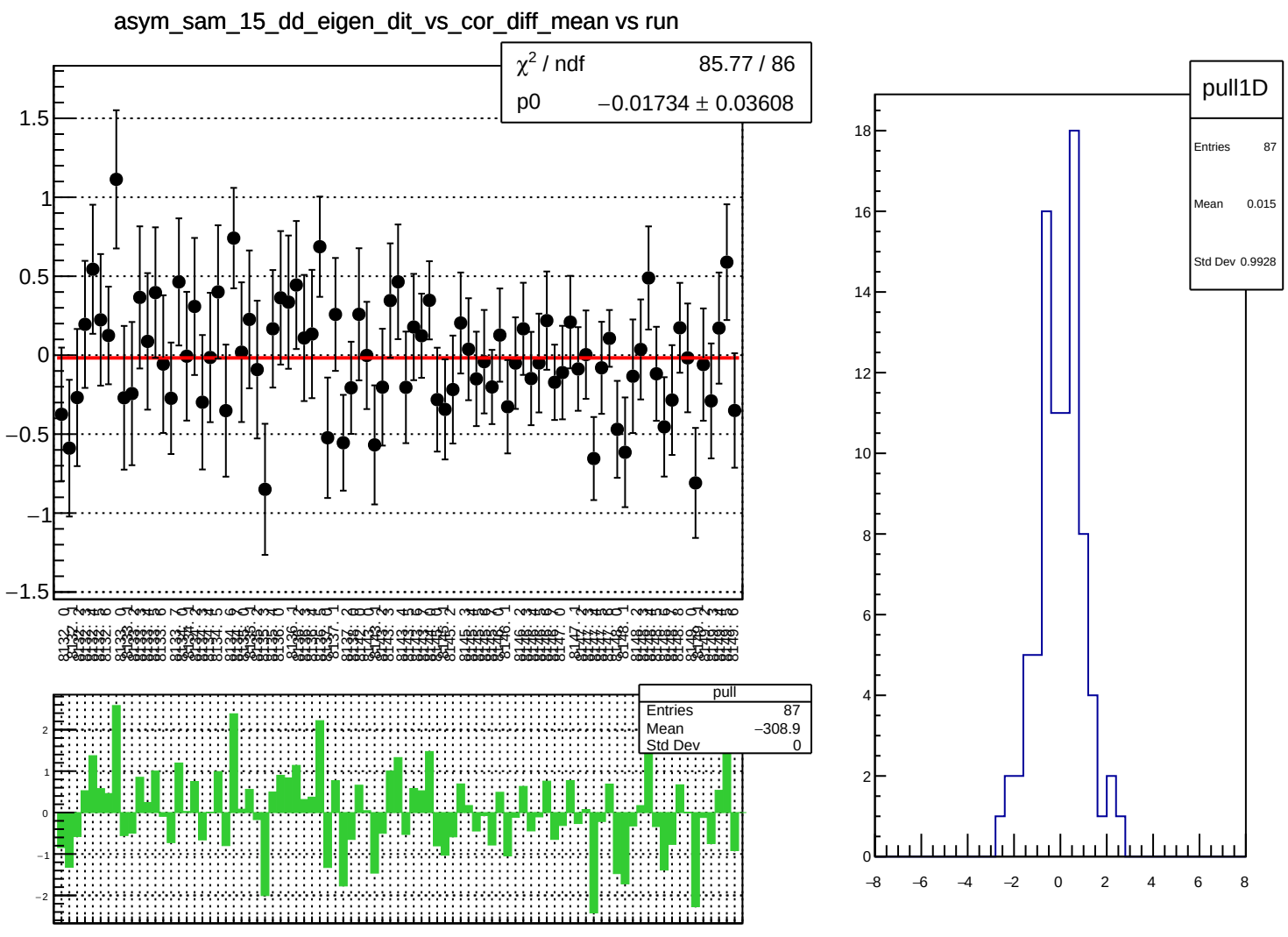

asym_sam_15_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.77 / 86
p0 −0.01734 ± 0.03608
pull
Entries 87
Mean −308.9
Std Dev 0
pull1D
Entries 87
Mean 0.015
Std Dev 0.9928

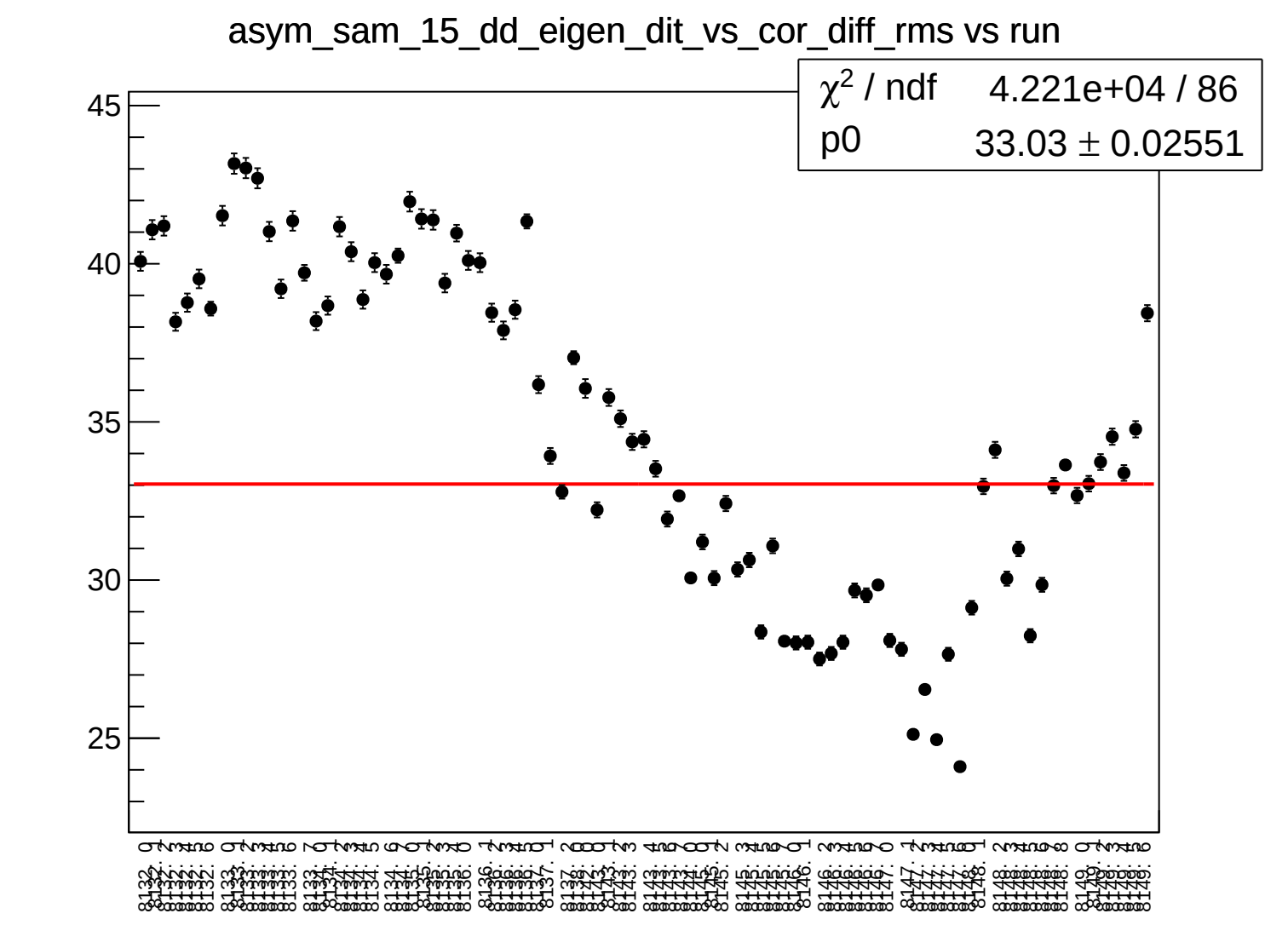

asym_sam_15_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.22e+04 / 86
p0 33.04 ± 0.02551
45
40
35
30
25

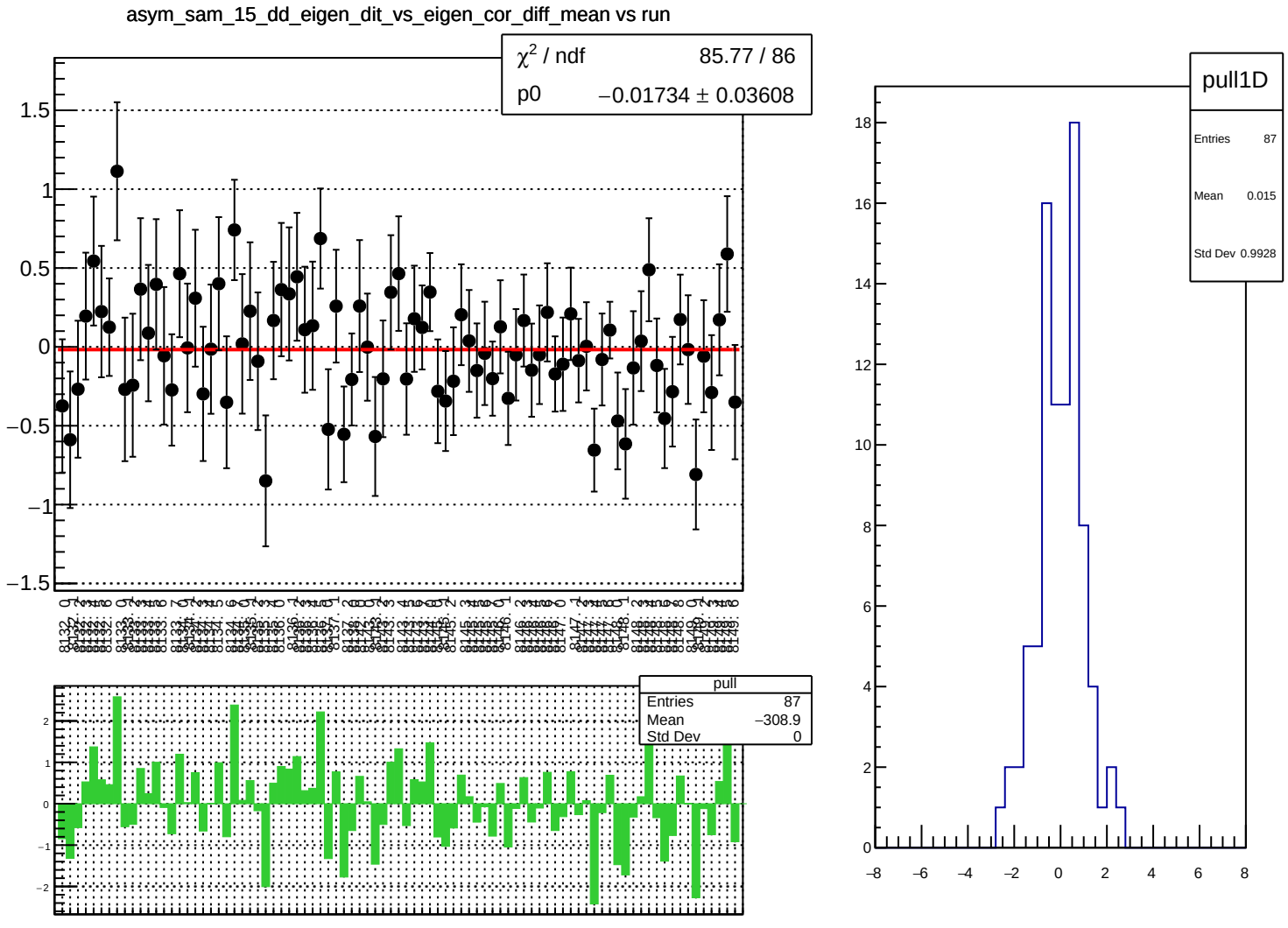

asym_sam_15_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 100.3 / 86
p0 −1.52e−06 ± 1.999e−06
pull
Entries 87
Mean 575.4
Std Dev 0

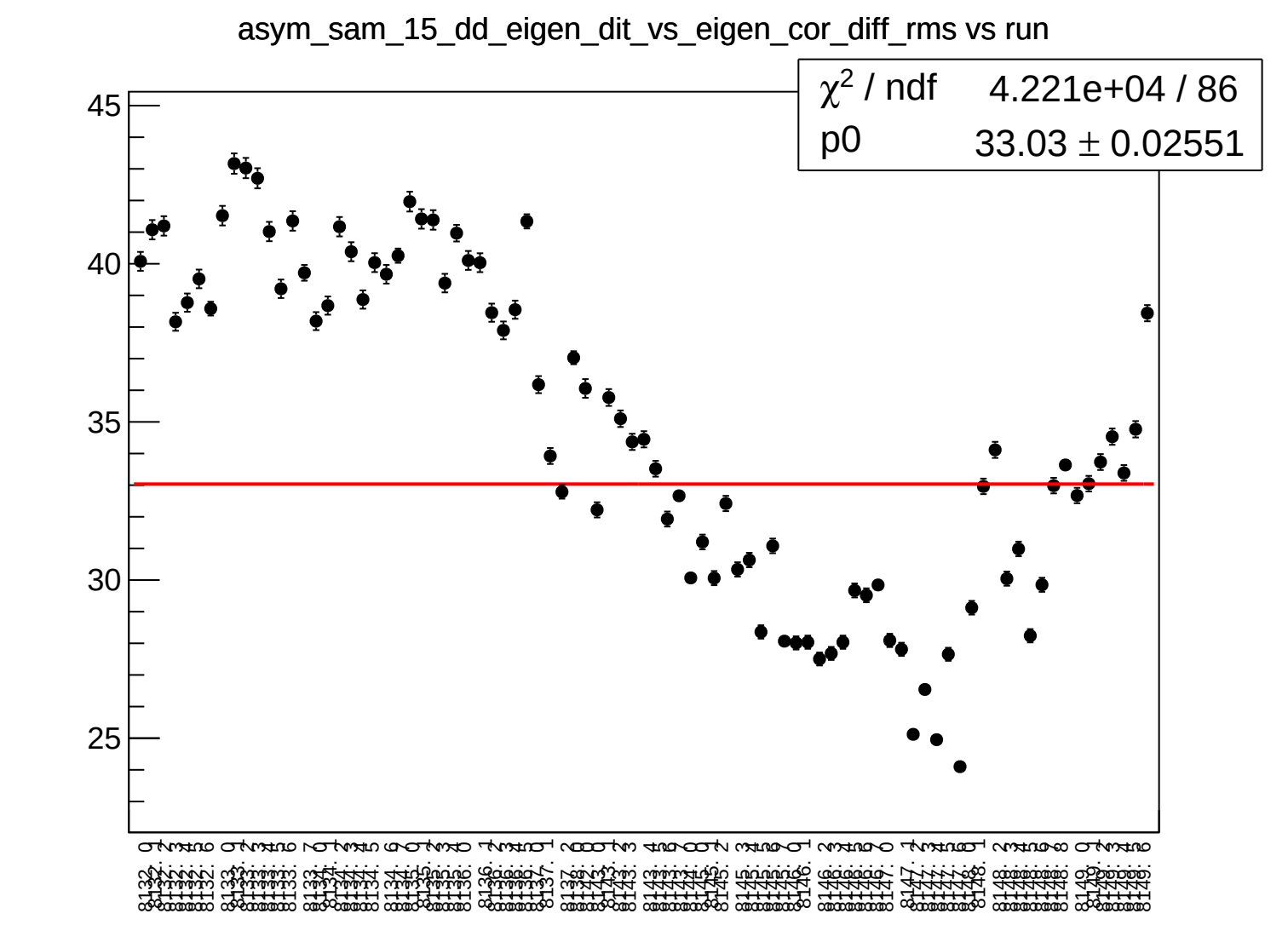

pull1D
Entries 87
Mean 0.01252
Std Dev 1.074

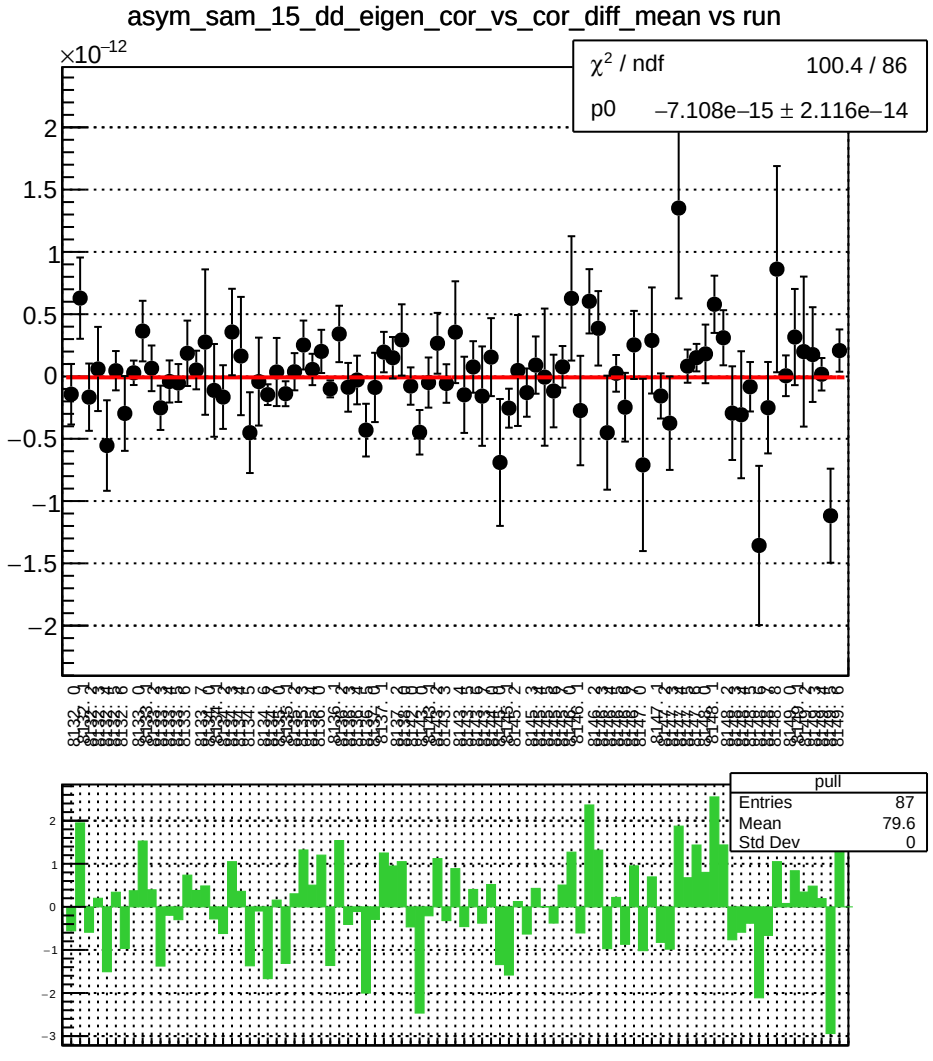

asym_sam_15_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9237 / 86
p0 0.001848 ± 1.413e−06
0.0025
0.0024
0.0023
0.0022
0.0021
0.002
0.0019
0.0018
0.0017
0.0016

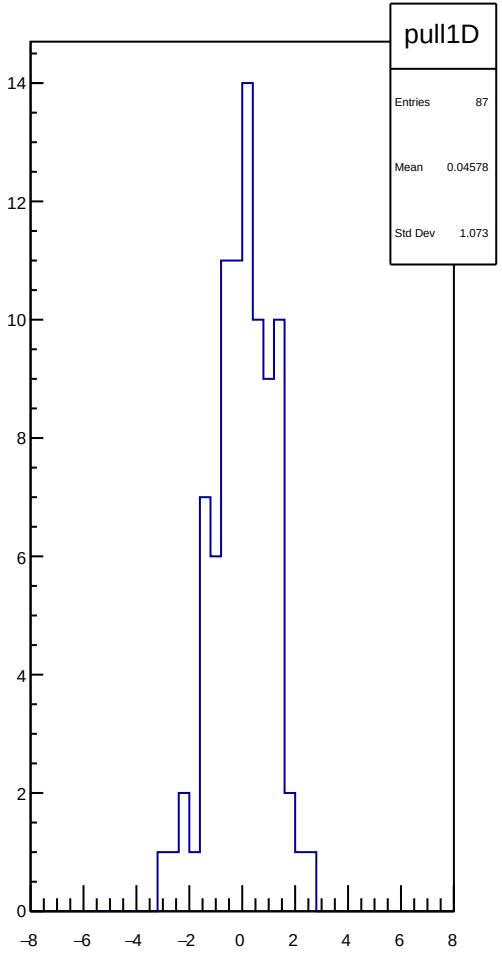

asym_sam_15_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.77 / 86
p0 −0.01734 ± 0.03608
pull
Entries 87
Mean −308.9
Std Dev 0
pull1D
Entries 87
Mean 0.015
Std Dev 0.9928

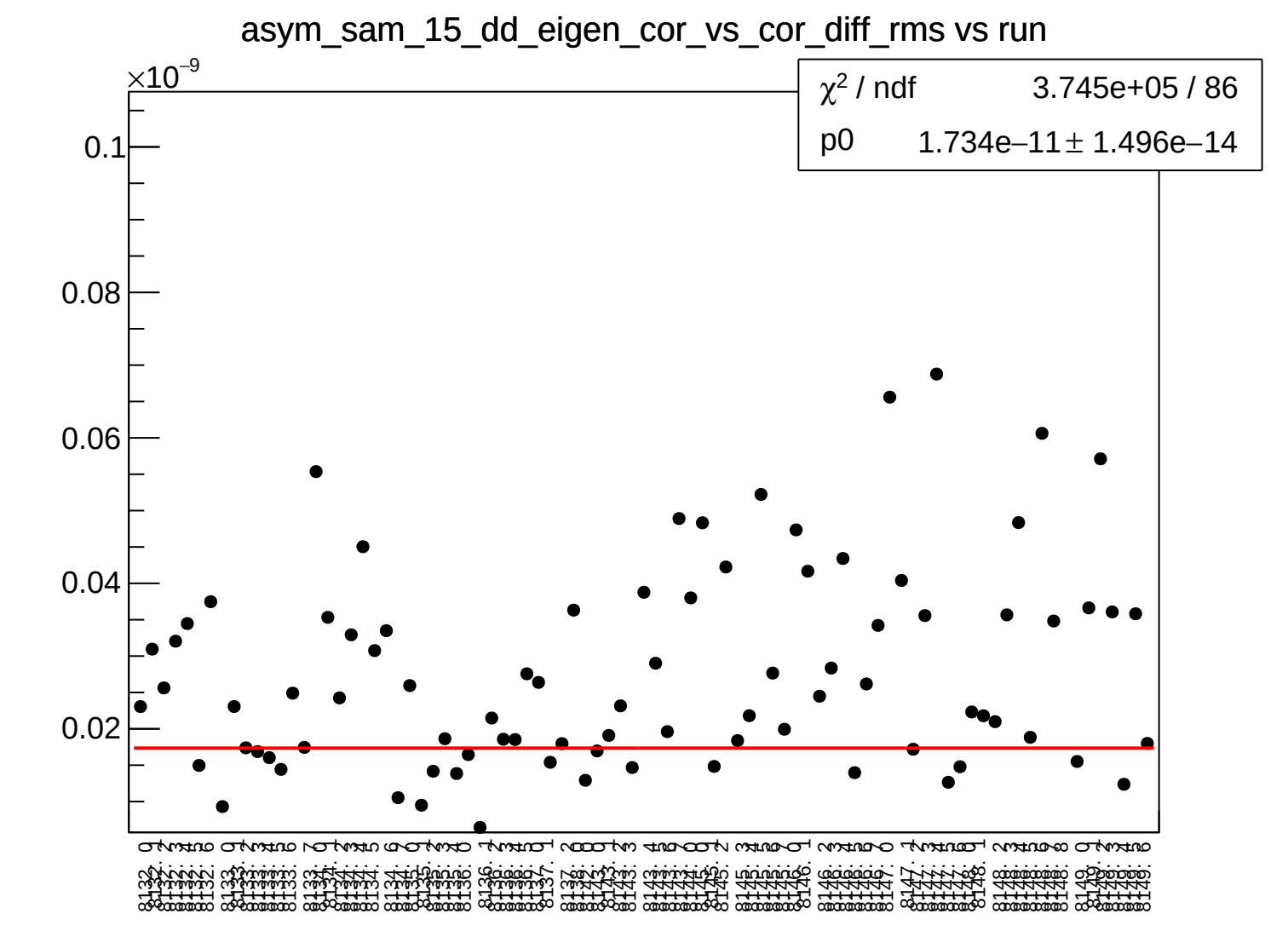

asym_sam_15_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.221e+04 / 86
p0 33.03 ± 0.02551
45
40
35
30
25

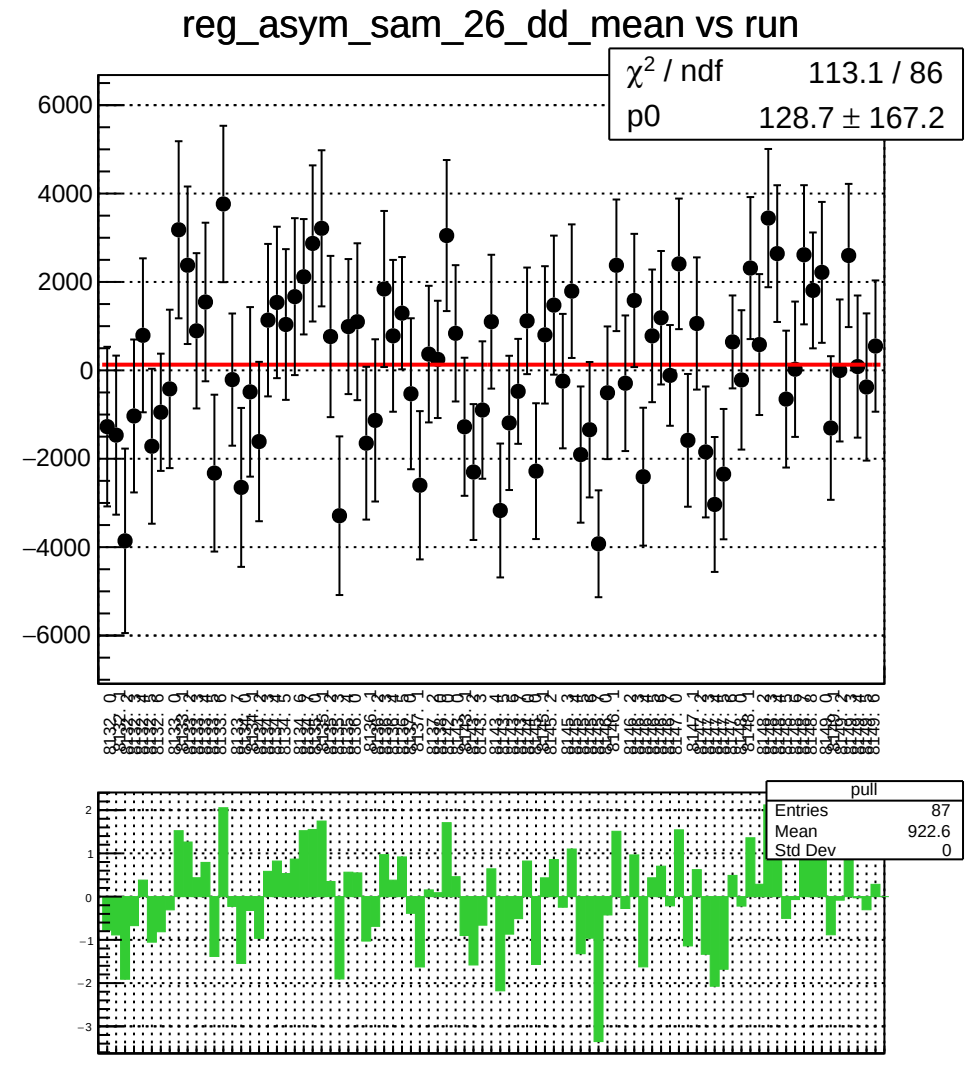

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.77 / 86
p0 −0.01734 ± 0.03608
pull
Entries 87
Mean −308.9
Std Dev 0
pull1D
Entries 87
Mean 0.015
Std Dev 0.9928

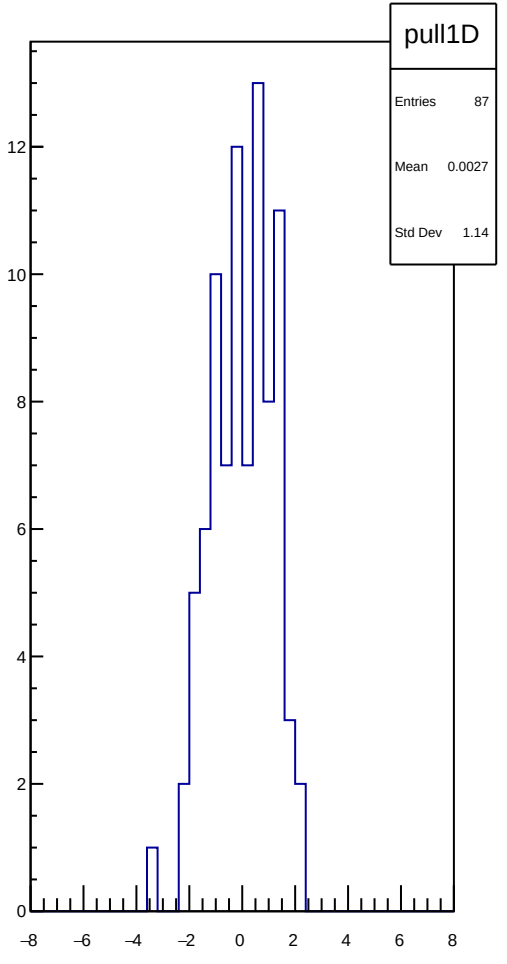

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.221e+04 / 86
p0 33.03 ± 0.02551
45
40
35
30
25

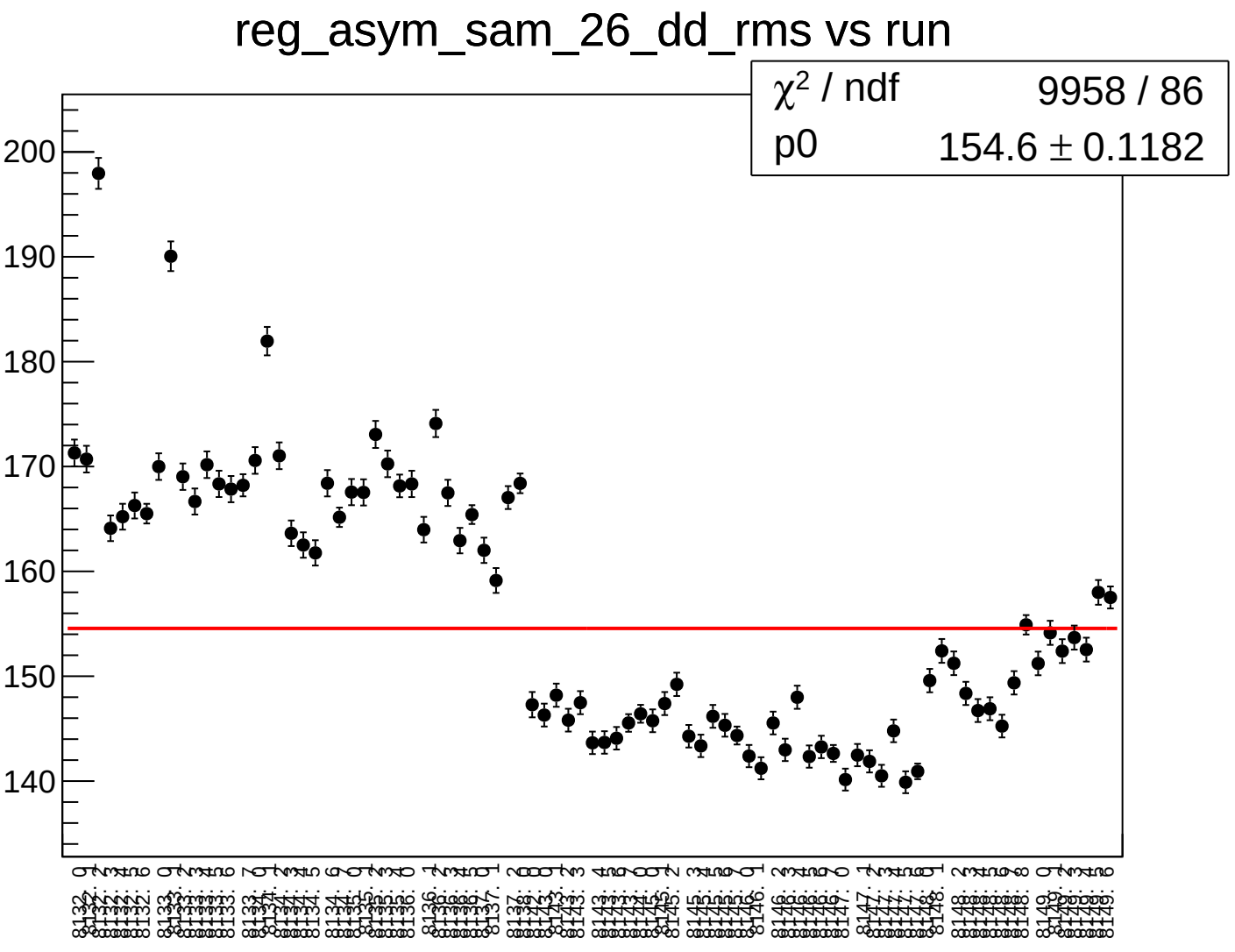

asym_sam_15_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 100.4 / 86
p0 −7.108e−15 ± 2.116e−14
pull
Entries 87
Mean 79.6
Std Dev 0

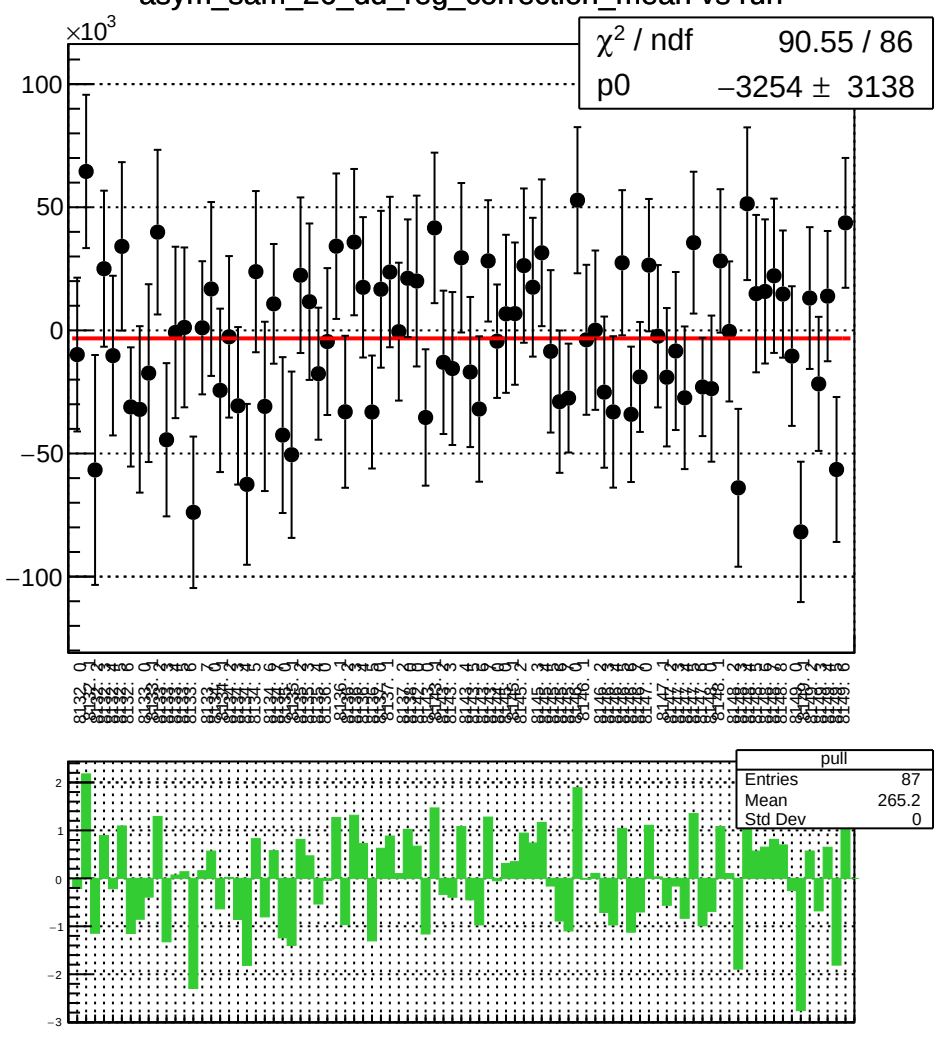

pull1D
Entries 87
Mean 0.04578
Std Dev 1.073

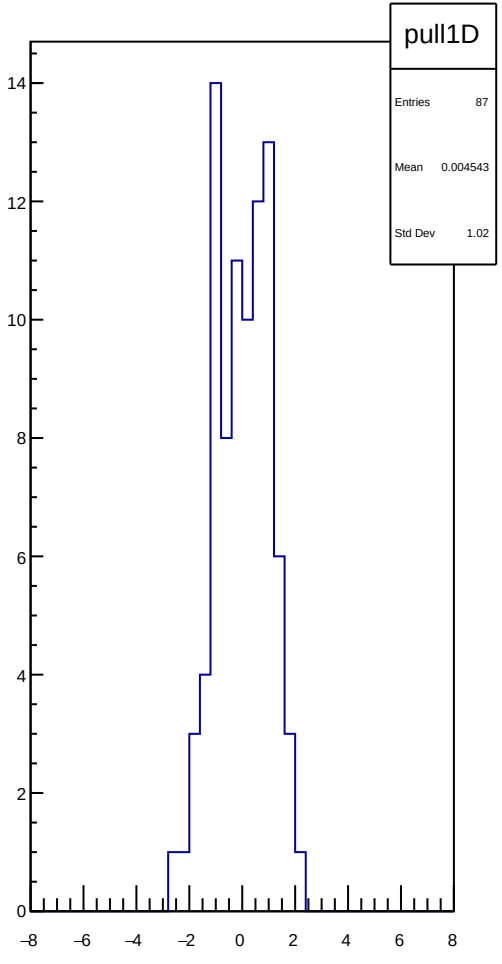

asym_sam_15_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.745e+05 / 86
p0 1.734e−11 ± 1.496e−14
0.1
0.08
0.06
0.04
0.02

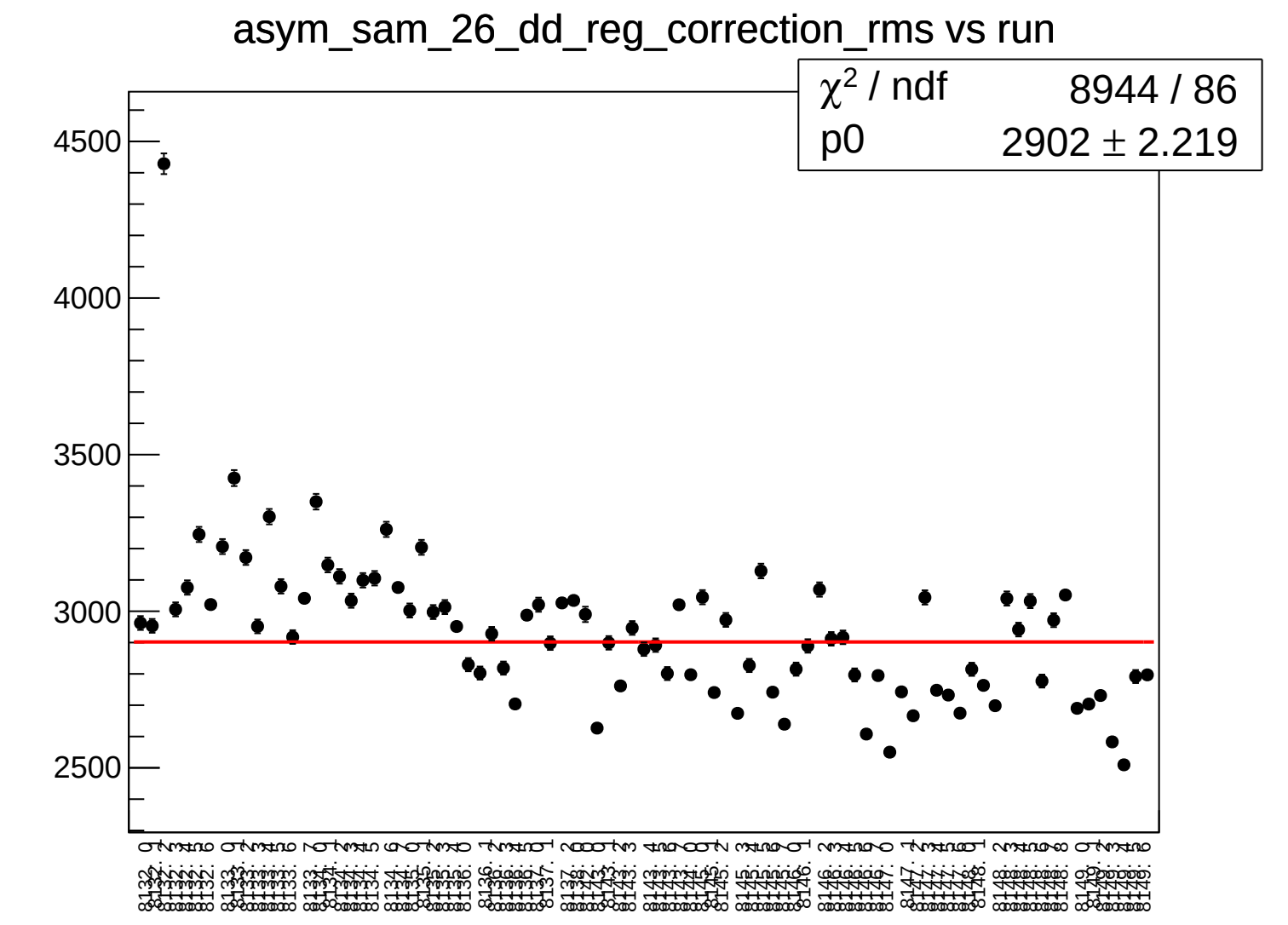

reg_asym_sam_26_dd_mean vs run
χ² / ndf 113.1 / 86
p0 128.7 ± 167.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 87
Mean 922.6
Std Dev 0
2
1
0
−1
−2
−3

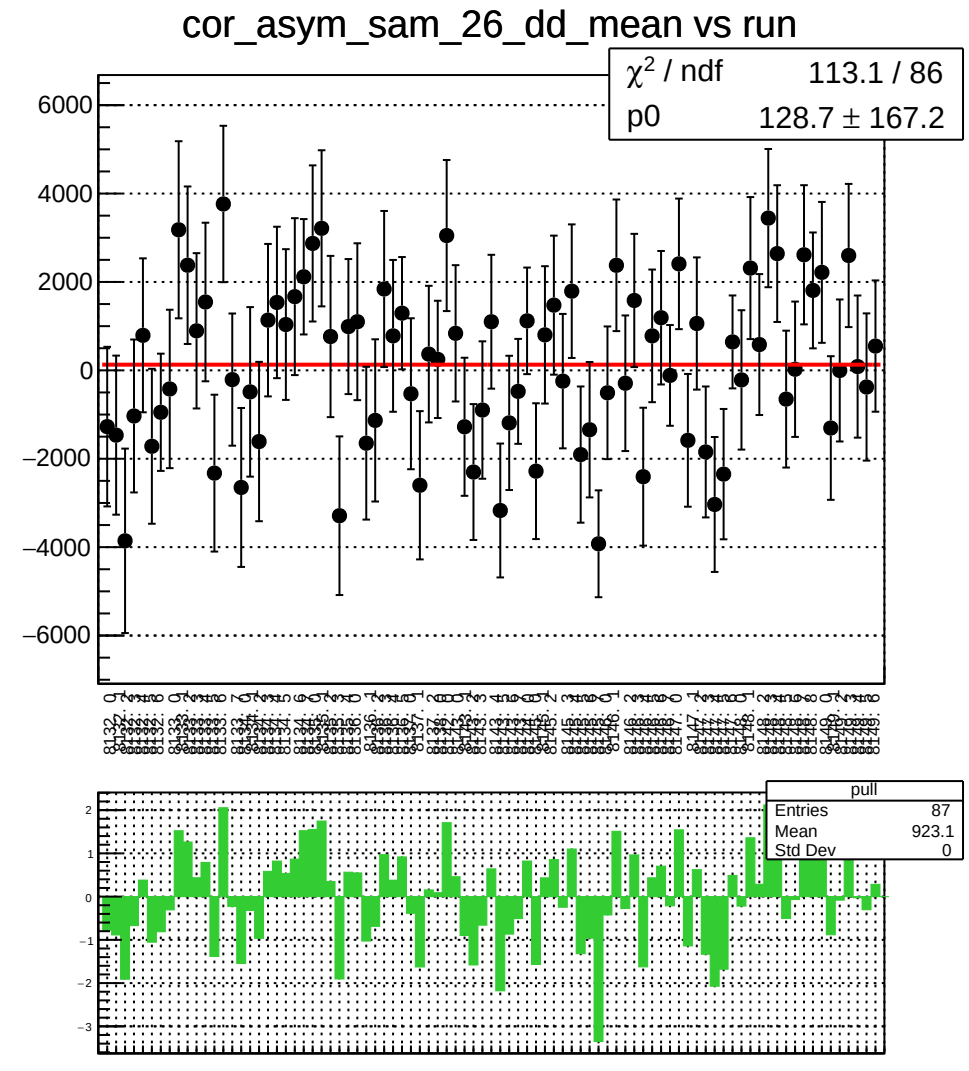

pull1D
Entries 87
Mean 0.0027
Std Dev 1.14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

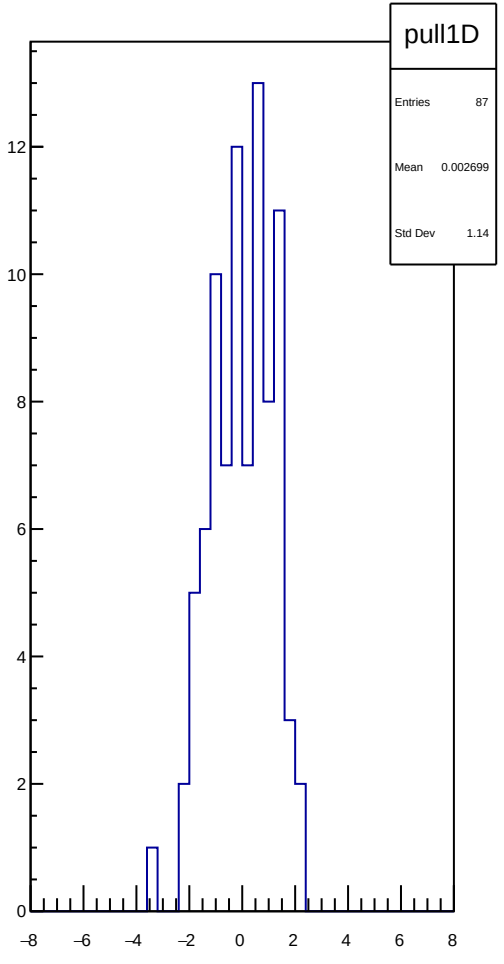

reg_asym_sam_26_dd_rms vs run
χ² / ndf 9958 / 86
p0 154.6 ± 0.1182
200
190
180
170
160
150
140

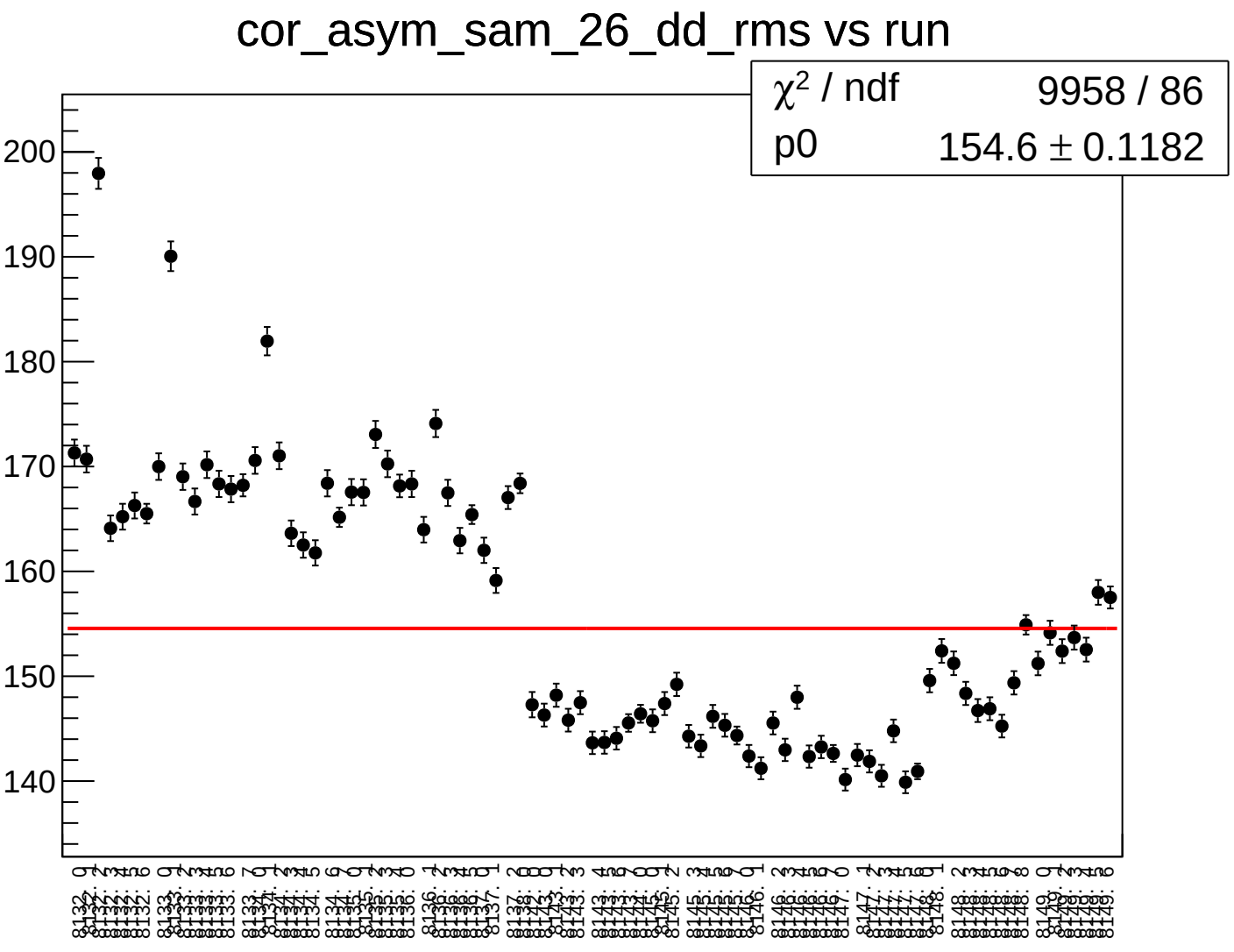

asym_sam_26_dd_reg_correction_mean vs run
×10^3
χ² / ndf 90.55 / 86
p0 −3254 ± 3138
pull
Entries 87
Mean 265.2
Std Dev 0

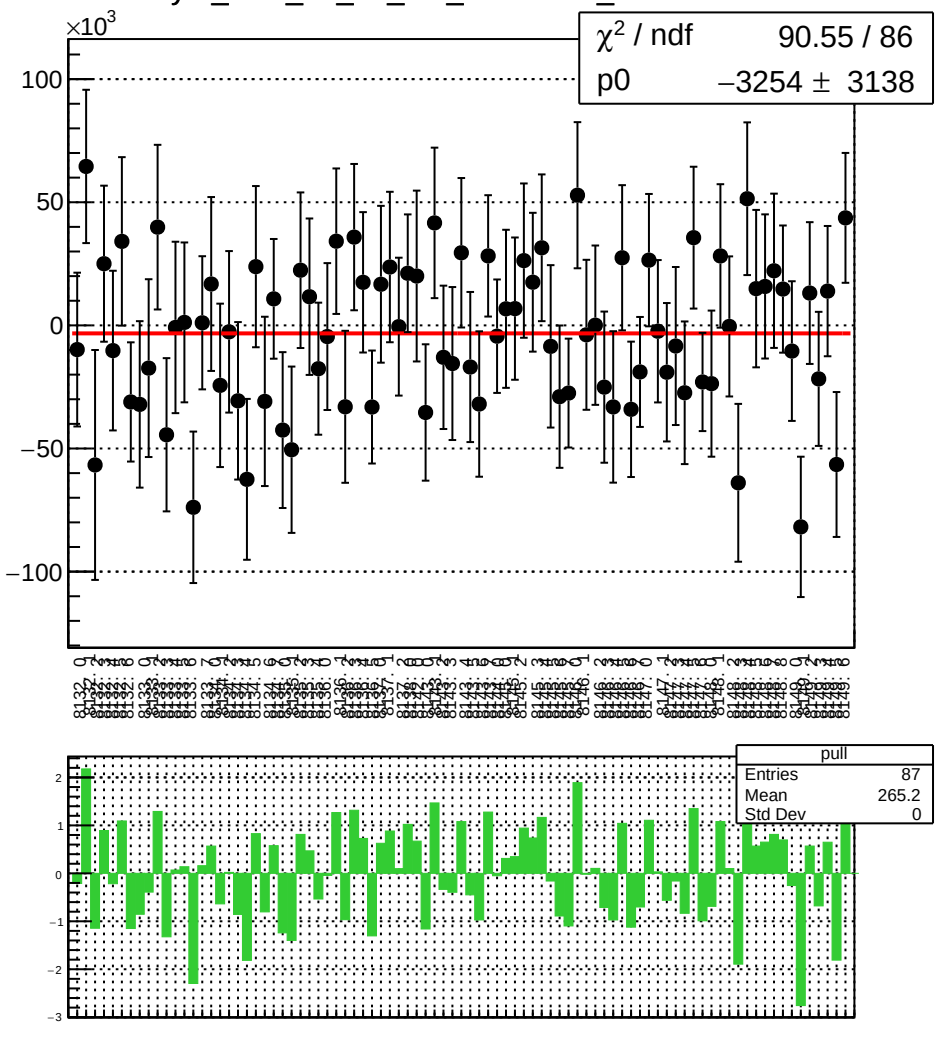

pull1D
Entries 87
Mean 0.004543
Std Dev 1.02

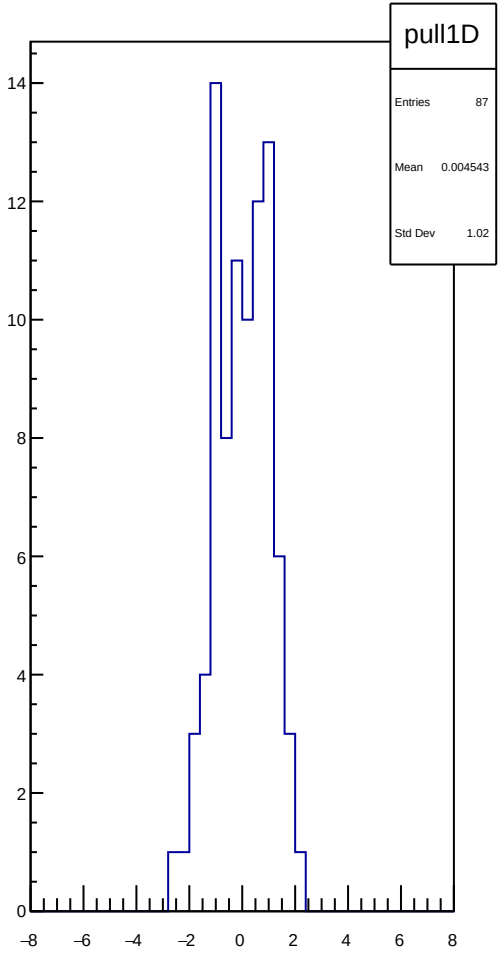

asym_sam_26_dd_reg_correction_rms vs run
χ² / ndf 8944 / 86
p0 2902 ± 2.219
4500
4000
3500
3000
2500

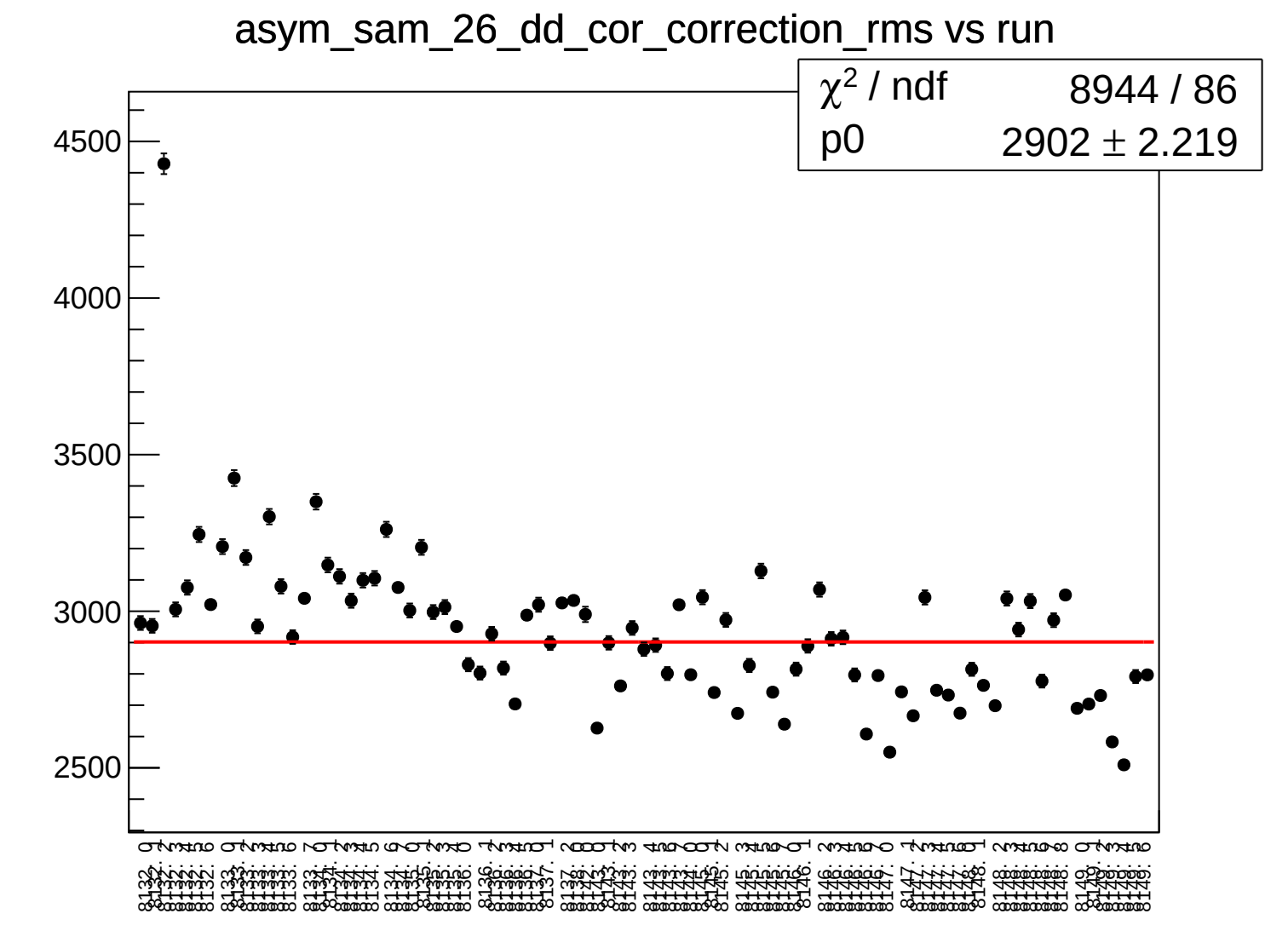

cor_asym_sam_26_dd_mean vs run
χ² / ndf 113.1 / 86
p0 128.7 ± 167.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 87
Mean 923.1
Std Dev 0
2
1
0
−1
−2
−3

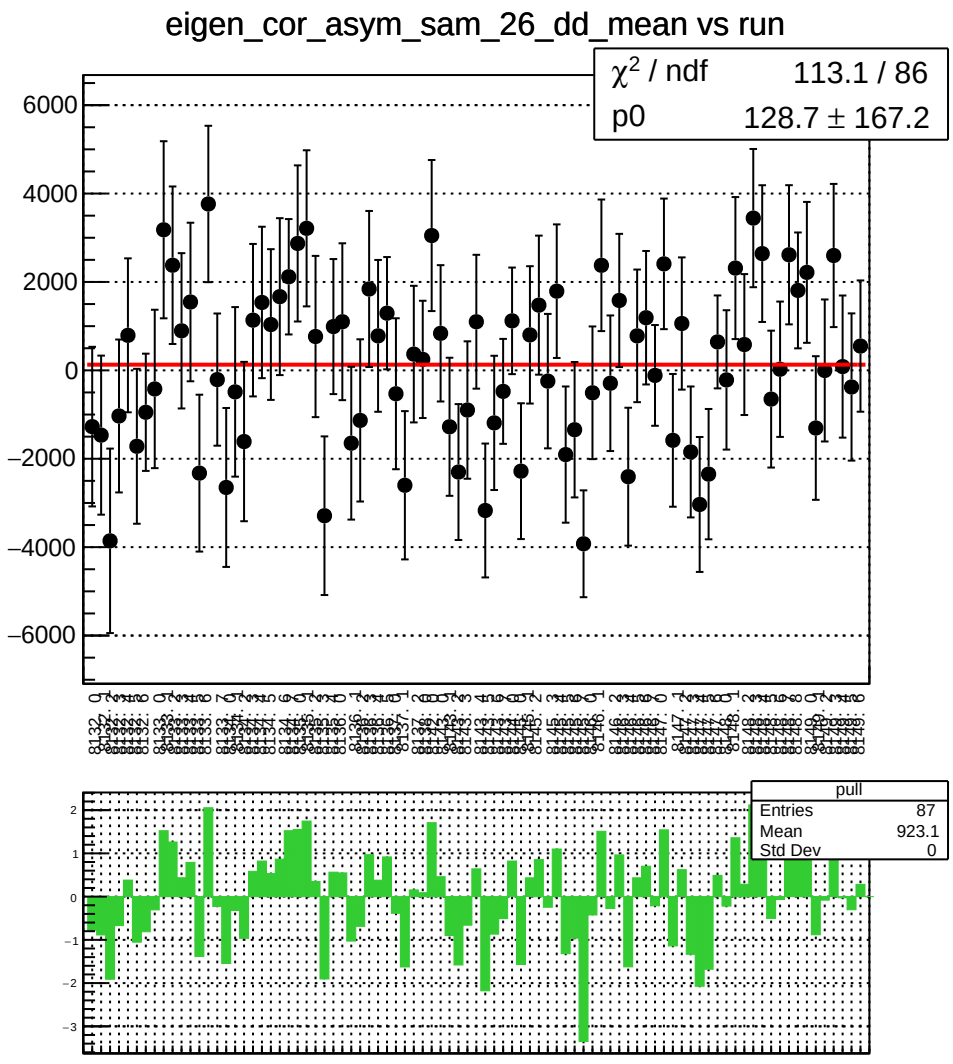

pull1D
Entries 87
Mean 0.002699
Std Dev 1.14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

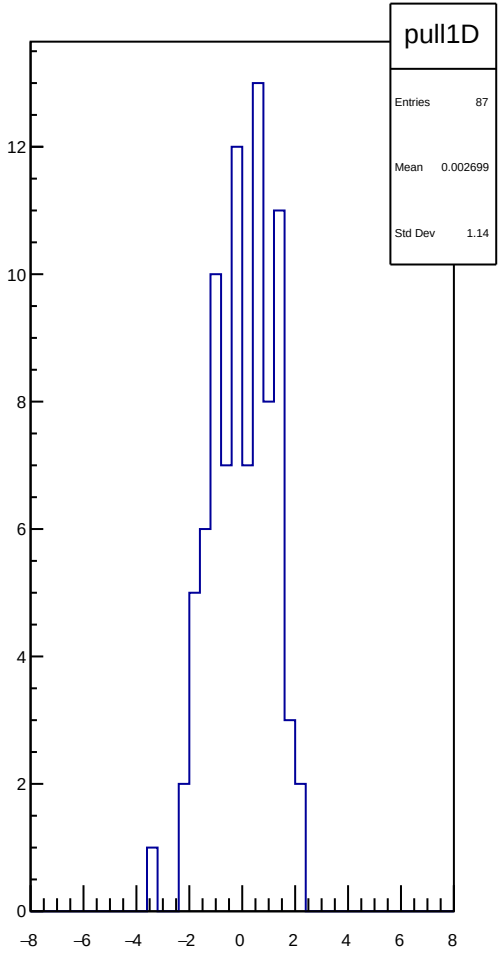

cor_asym_sam_26_dd_rms vs run
χ² / ndf 9958 / 86
p0 154.6 ± 0.1182
200
190
180
170
160
150
140

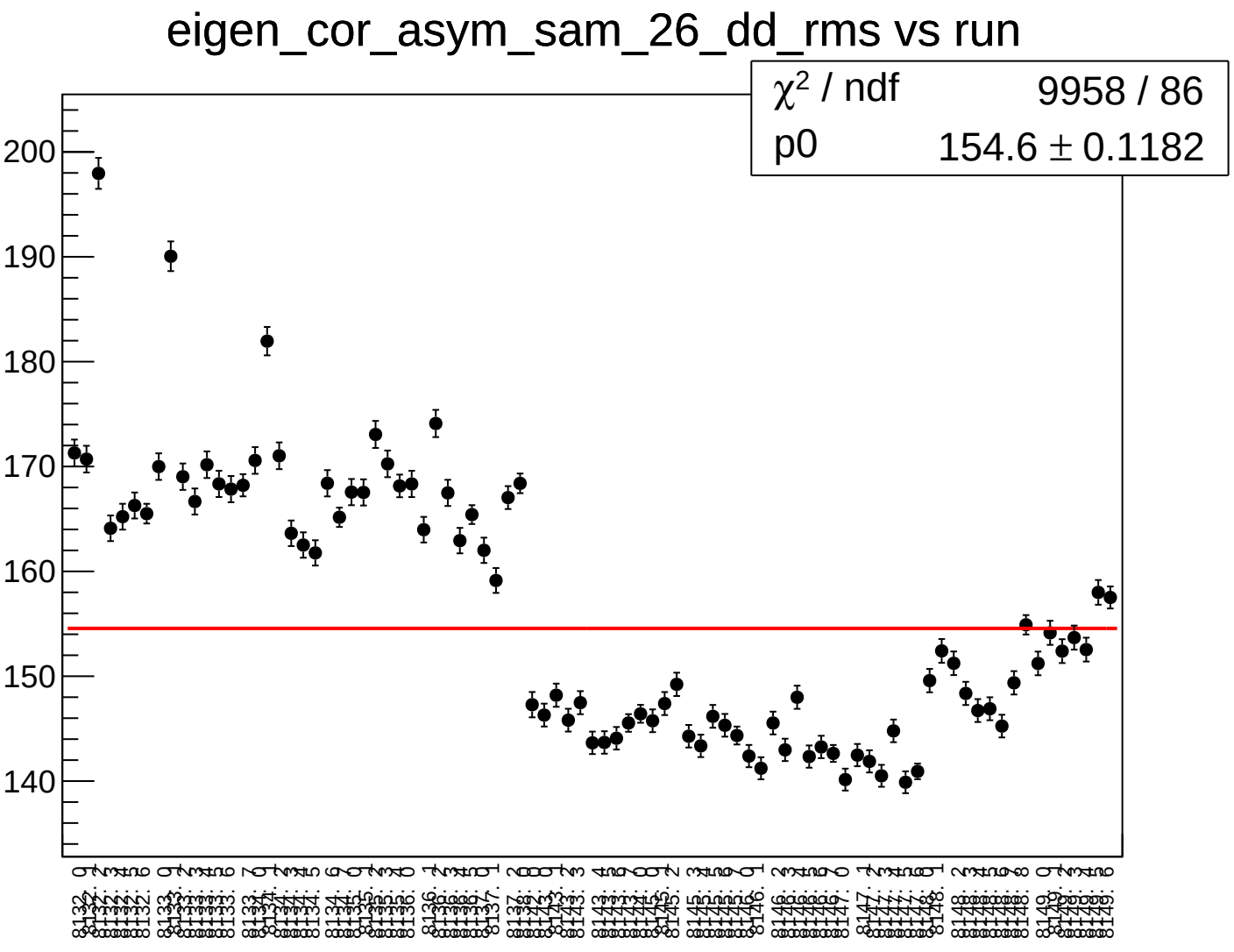

asym_sam_26_dd_cor_correction_mean vs run
×10^3
χ² / ndf 90.55 / 86
p0 −3254 ± 3138
100
50
0
−50
−100
pull
Entries 87
Mean 265.2
Std Dev 0
2
1
0
−1
−2
−3

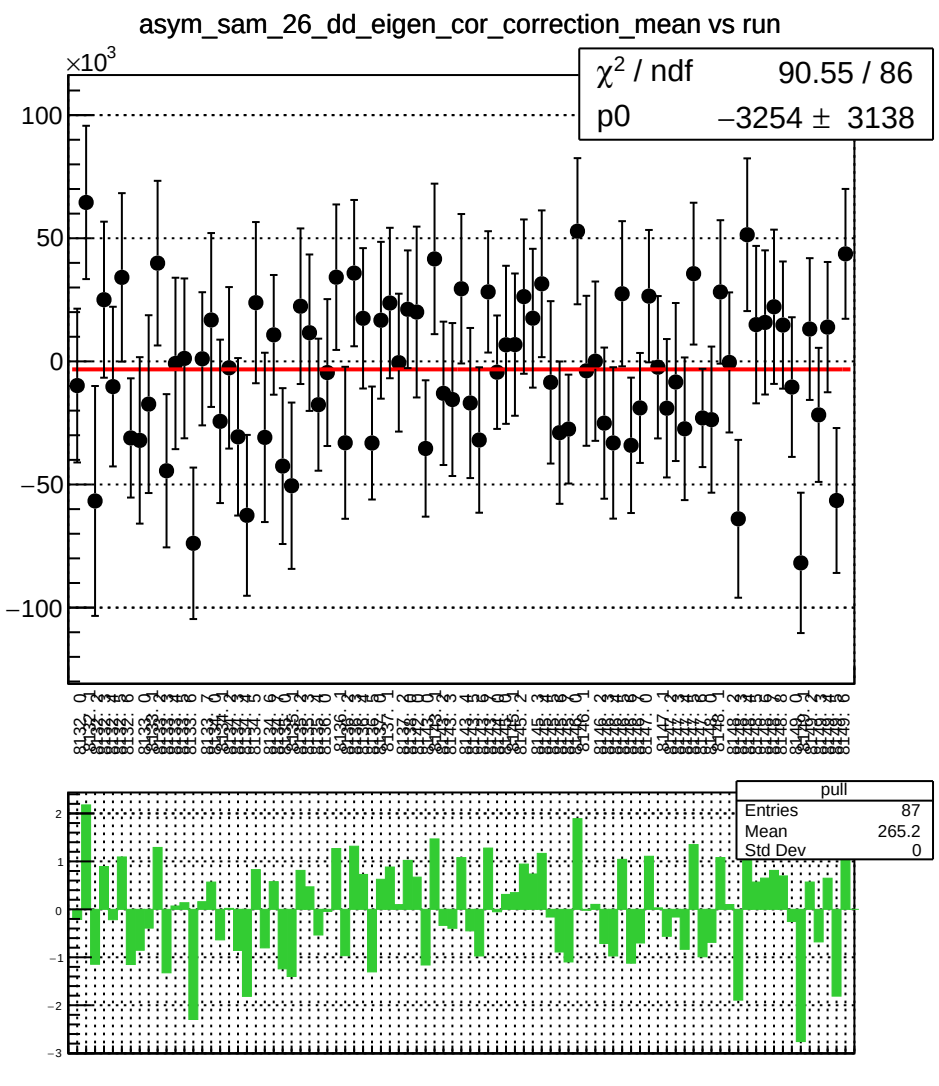

pull1D
Entries 87
Mean 0.004543
Std Dev 1.02
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

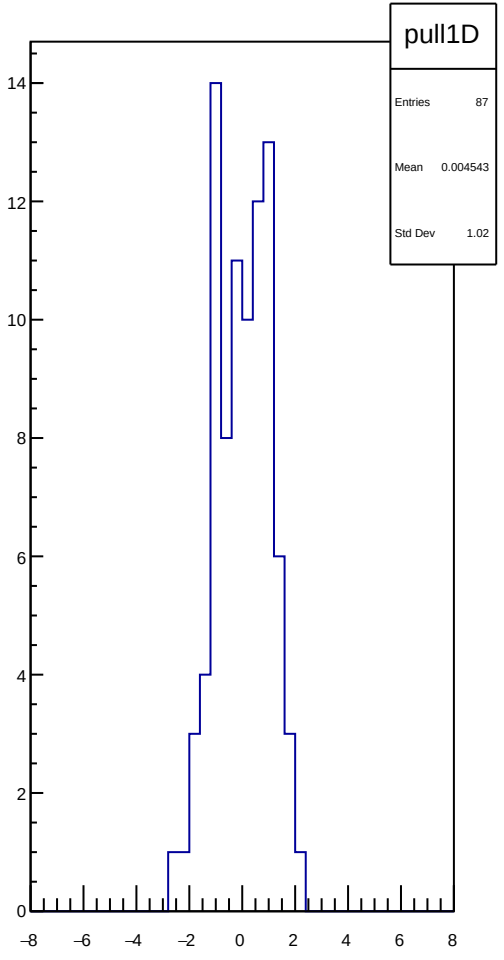

asym_sam_26_dd_cor_correction_rms vs run
χ² / ndf 8944 / 86
p0 2902 ± 2.219
4500
4000
3500
3000
2500

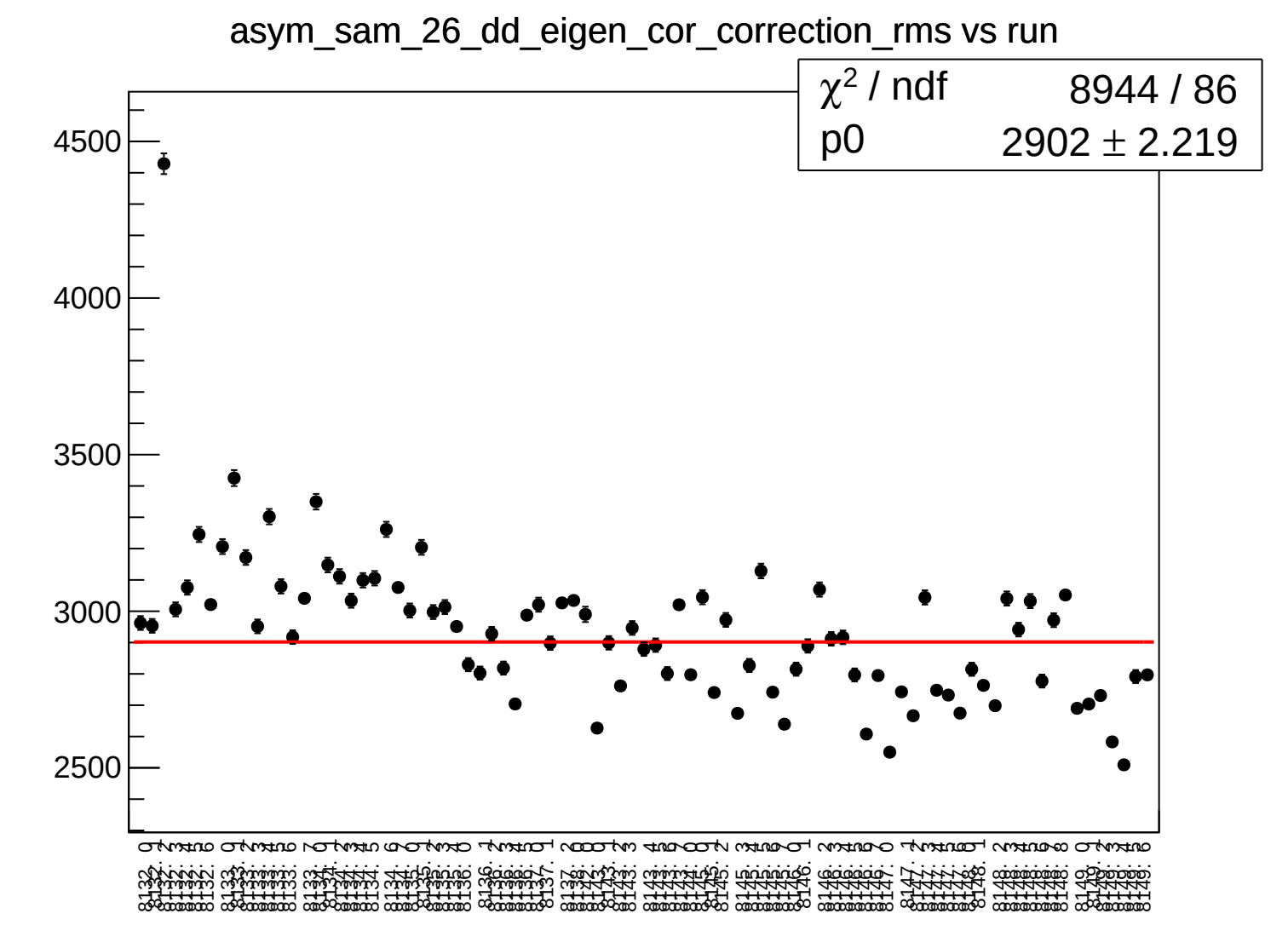

eigen_cor_asym_sam_26_dd_mean vs run
χ² / ndf 113.1 / 86
p0 128.7 ± 167.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 87
Mean 923.1
Std Dev 0
2
1
0
−1
−2
−3

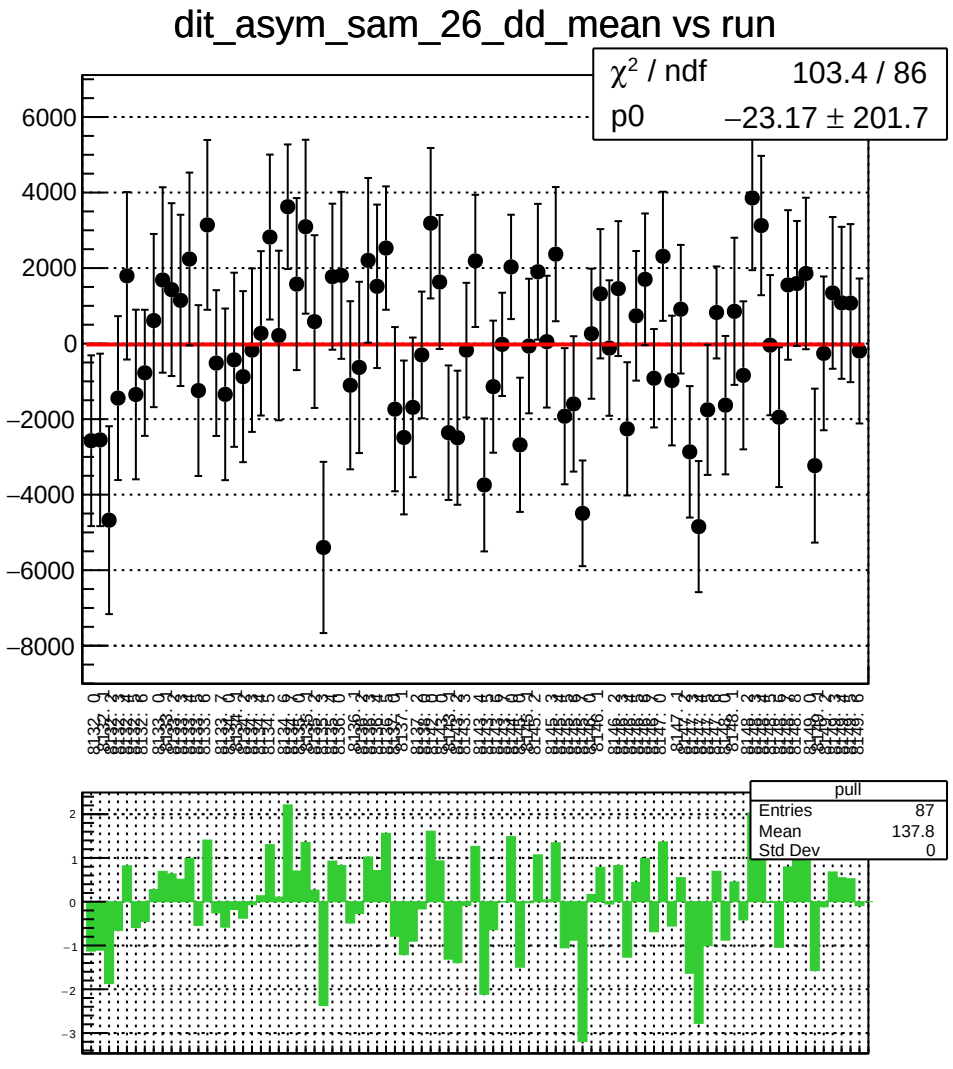

pull1D
Entries 87
Mean 0.002699
Std Dev 1.14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

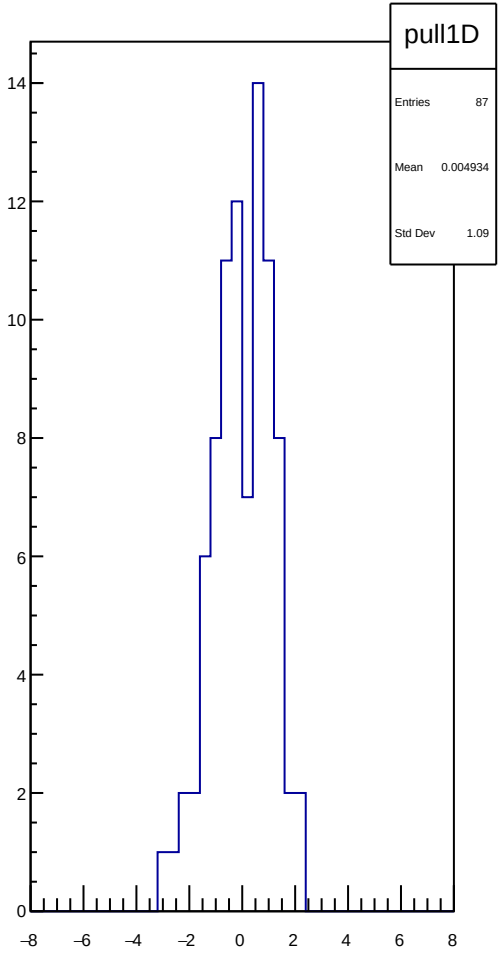

eigen_cor_asym_sam_26_dd_rms vs run
χ² / ndf 9958 / 86
p0 154.6 ± 0.1182
200
190
180
170
160
150
140

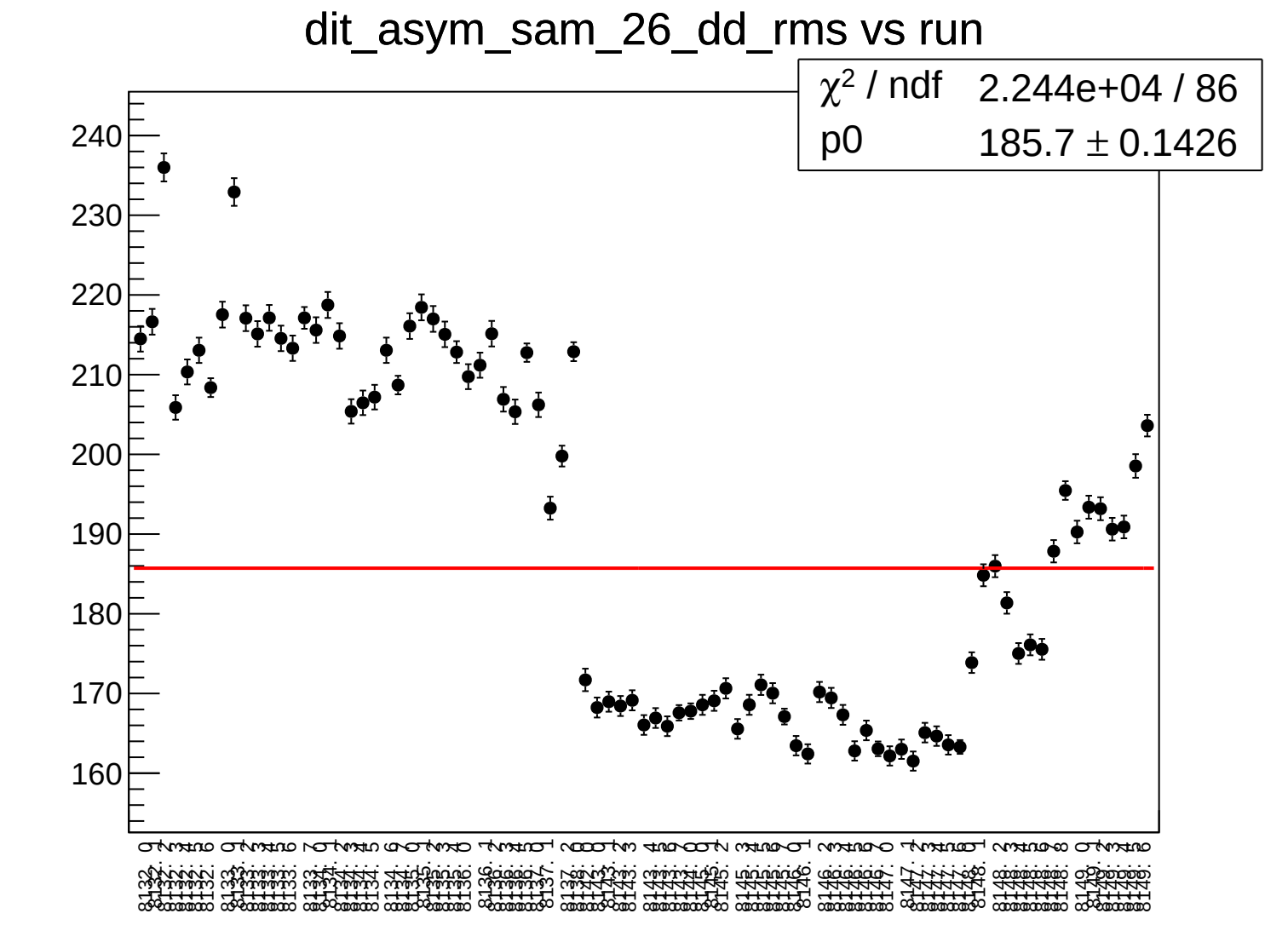

asym_sam_26_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 90.55 / 86
p0 −3254 ± 3138
100
50
0
−50
−100
pull
Entries 87
Mean 265.2
Std Dev 0
2
1
0
−1
−2
−3

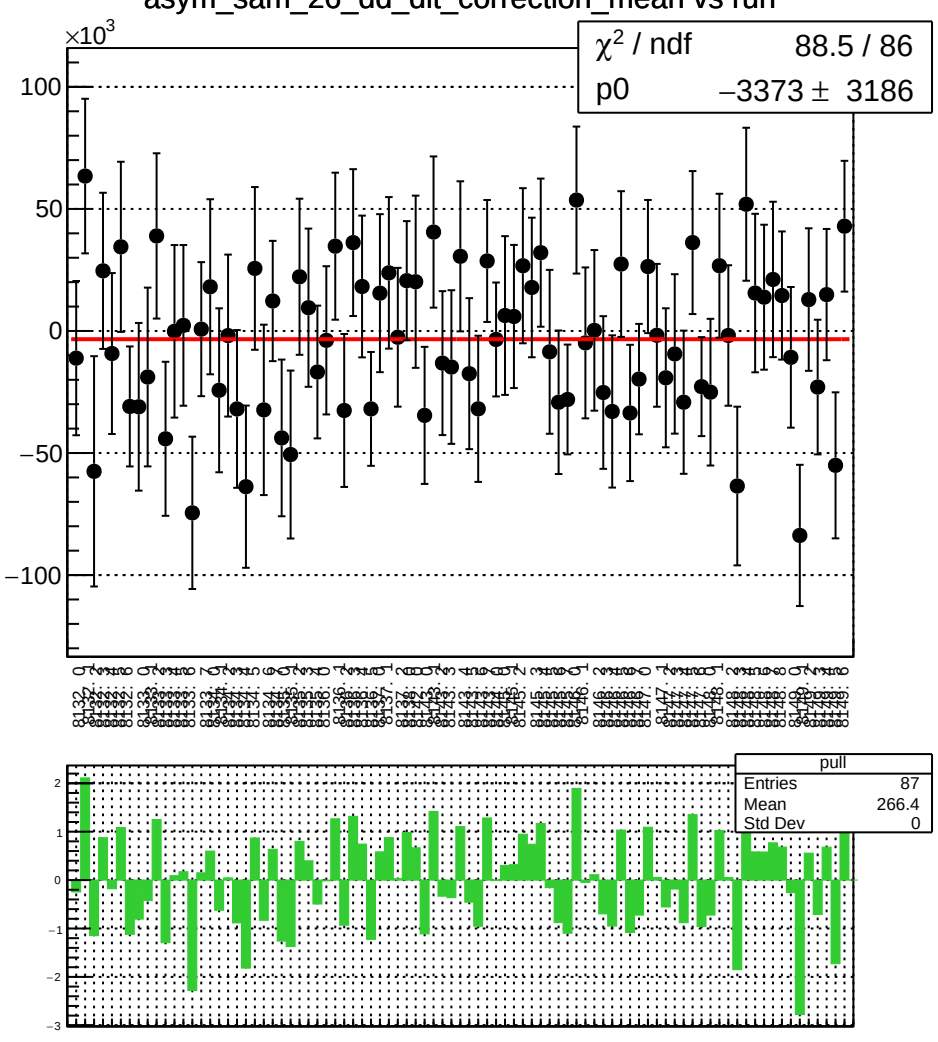

pull1D
Entries 87
Mean 0.004543
Std Dev 1.02
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

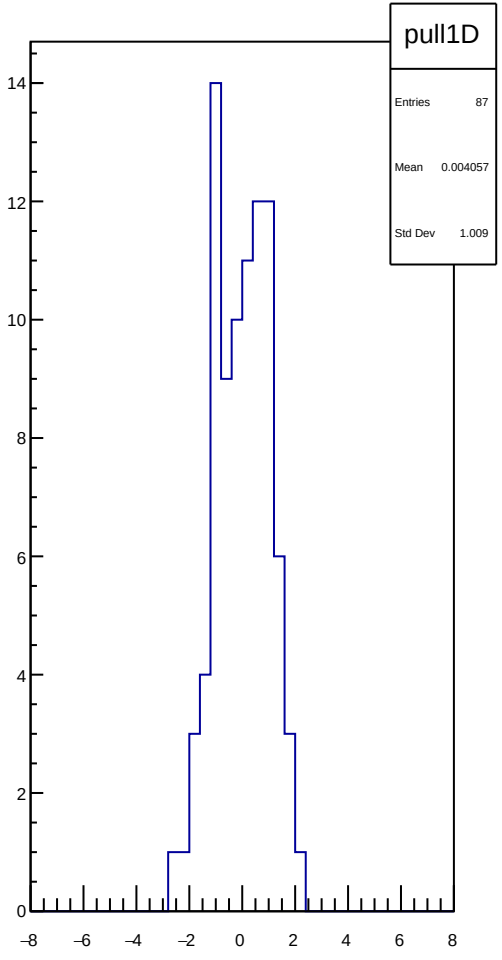

asym_sam_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 8944 / 86
p0 2902 ± 2.219
4500
4000
3500
3000
2500

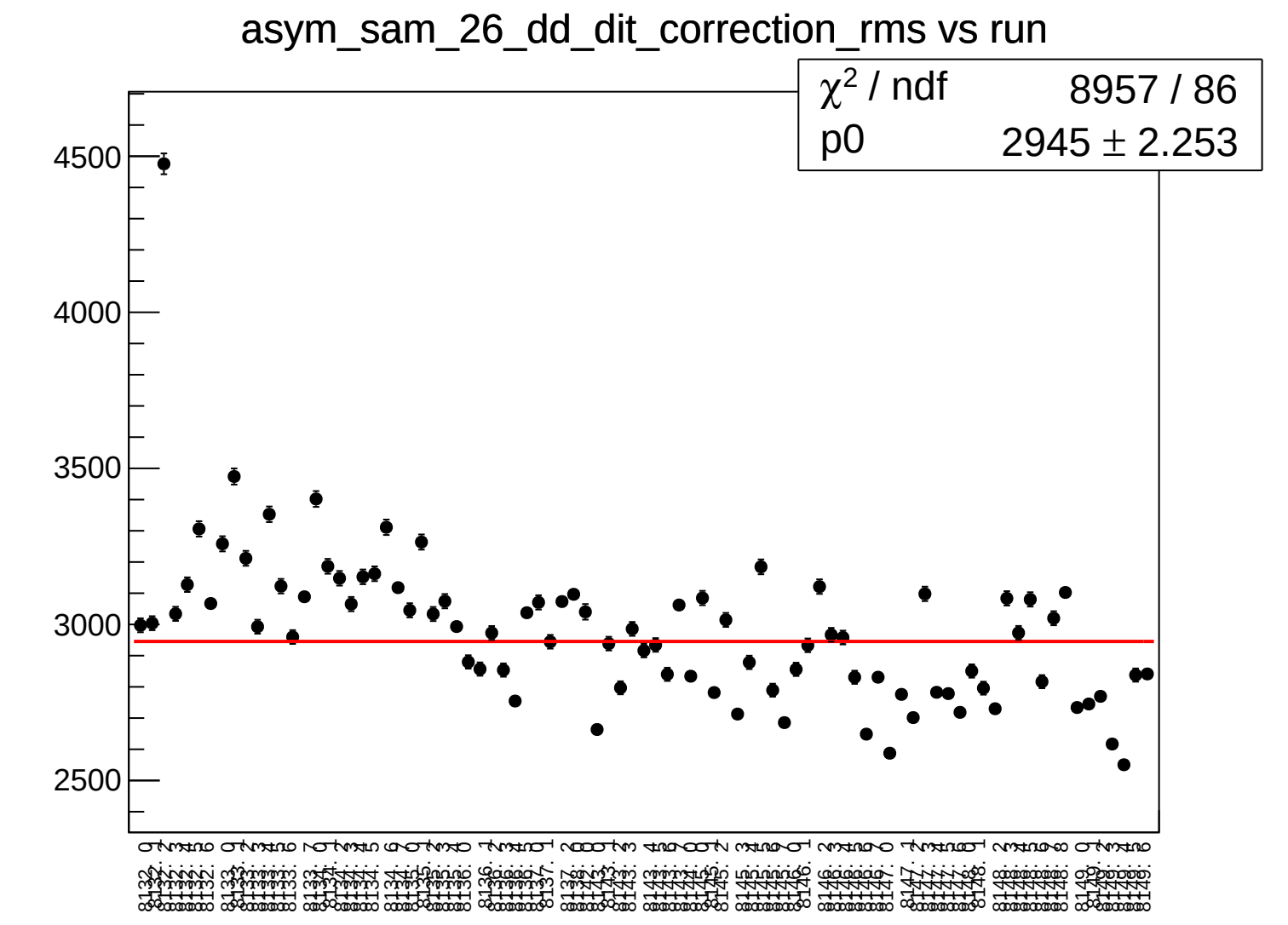

dit_asym_sam_26_dd_mean vs run
χ² / ndf 103.4 / 86
p0 −23.17 ± 201.7
pull
Entries 87
Mean 137.8
Std Dev 0

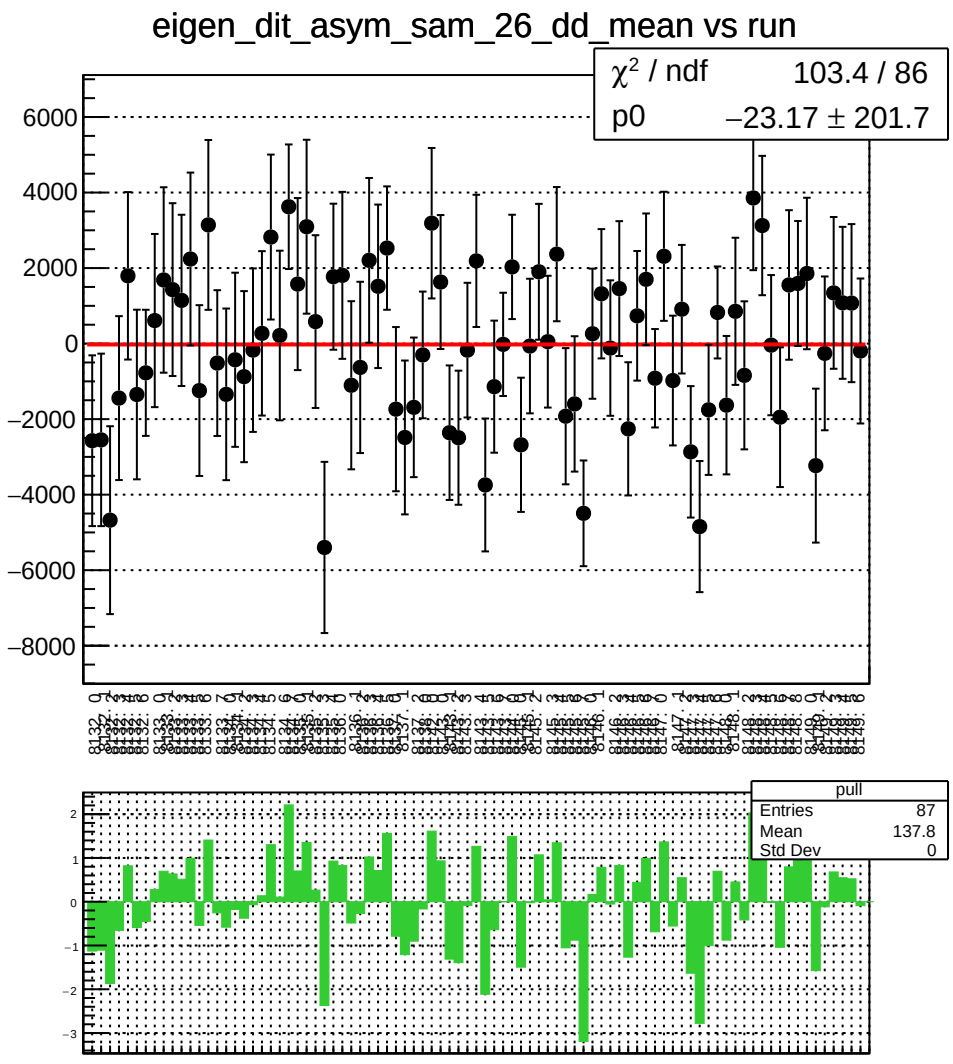

pull1D
Entries 87
Mean 0.004934
Std Dev 1.09

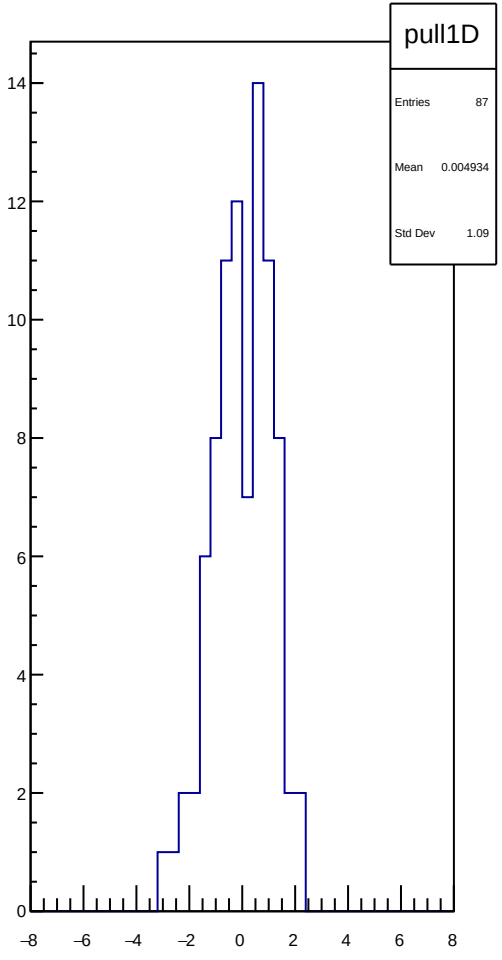

dit_asym_sam_26_dd_rms vs run
χ² / ndf 2.244e+04 / 86
p0 185.7 ± 0.1426
240
230
220
210
200
190
180
170
160

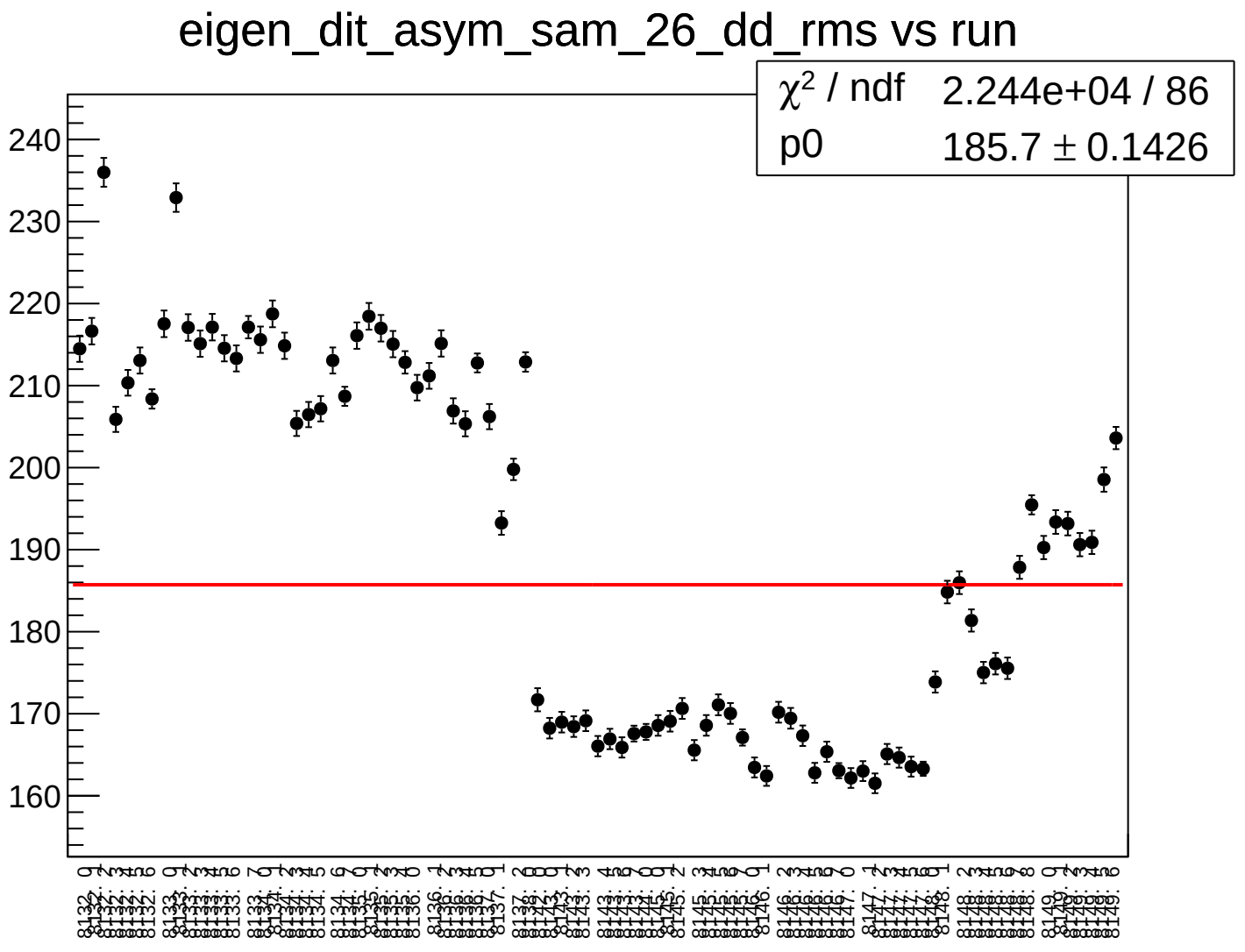

asym_sam_26_dd_dit_correction_mean vs run
×10^3
χ² / ndf 88.5 / 86
p0 −3373 ± 3186
100
50
0
−50
−100
pull
Entries 87
Mean 266.4
Std Dev 0
2
1
0
−1
−2
−3

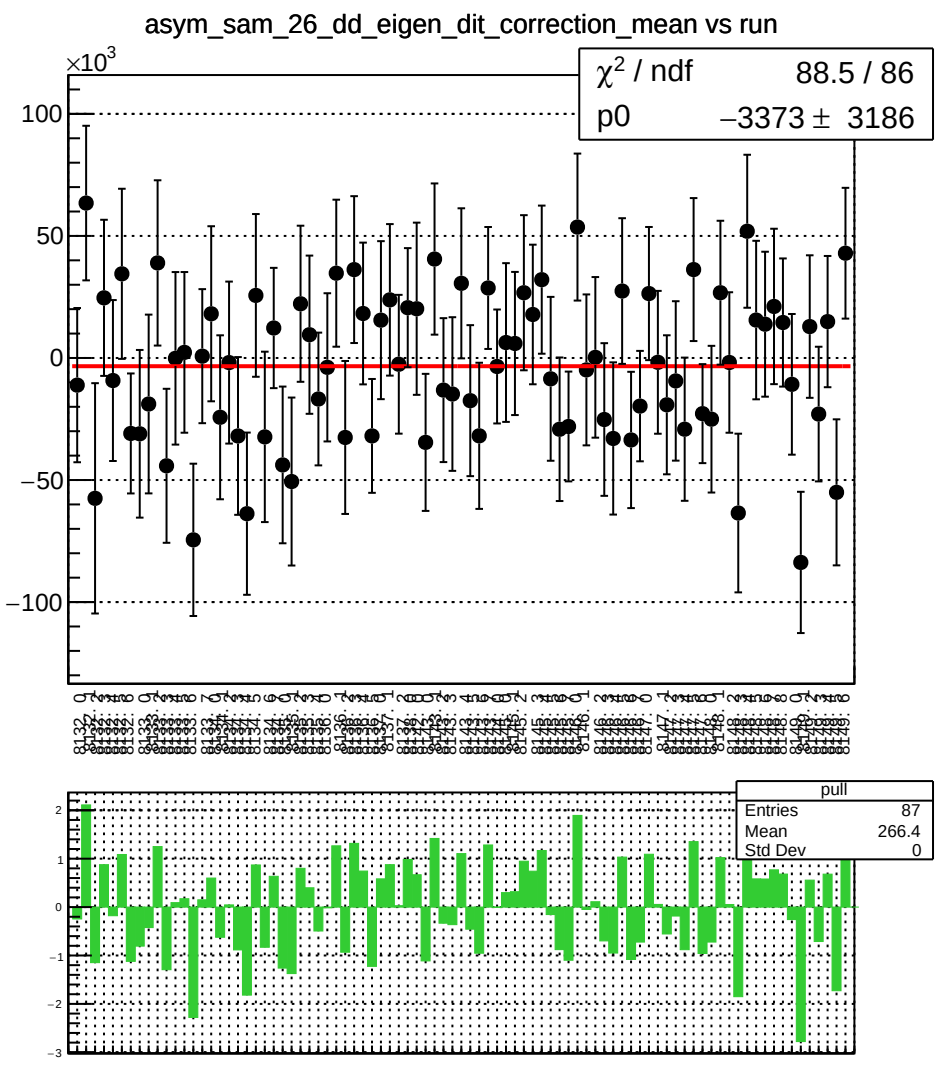

pull1D
Entries 87
Mean 0.004057
Std Dev 1.009
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

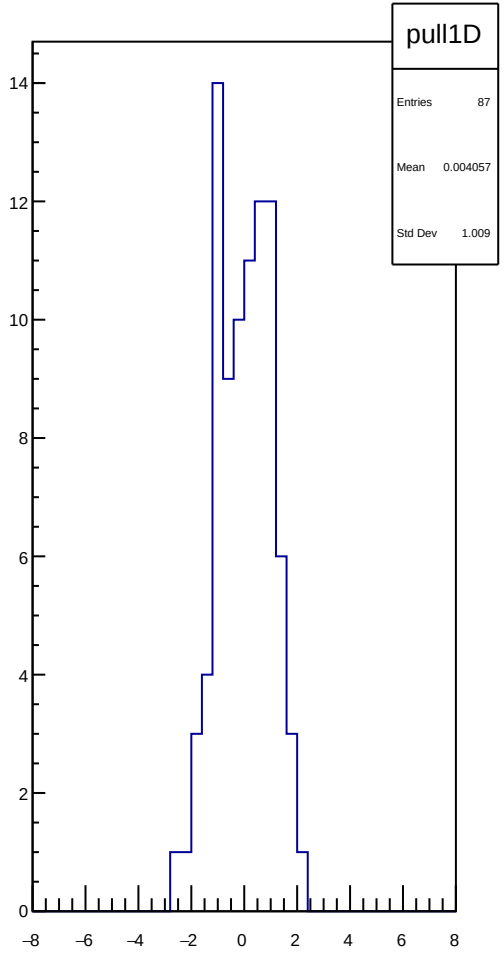

asym_sam_26_dd_dit_correction_rms vs run
χ² / ndf 8957 / 86
p0 2945 ± 2.253
4500
4000
3500
3000
2500

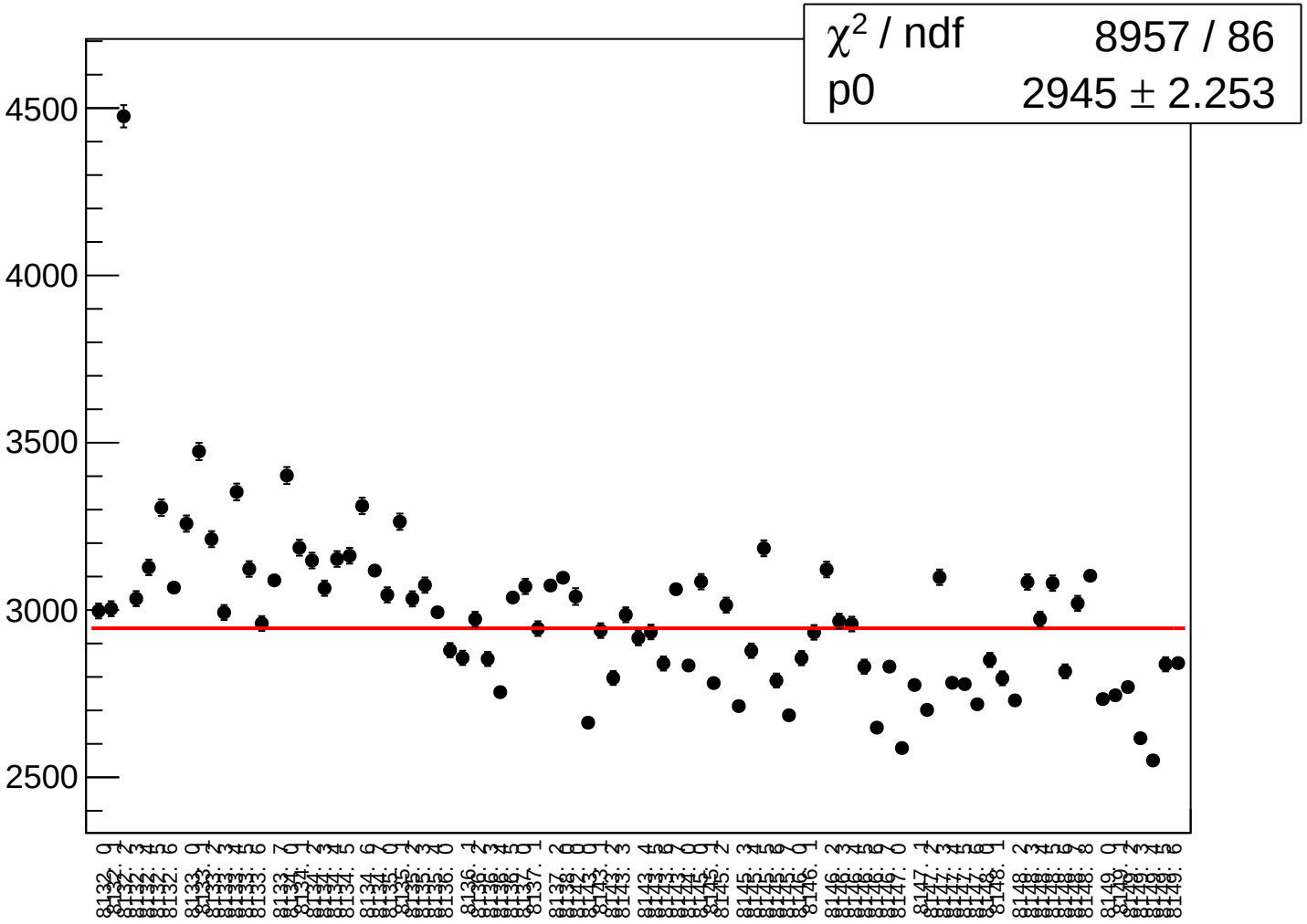

eigen_dit_asym_sam_26_dd_mean vs run
χ² / ndf 103.4 / 86
p0 −23.17 ± 201.7
pull
Entries 87
Mean 137.8
Std Dev 0

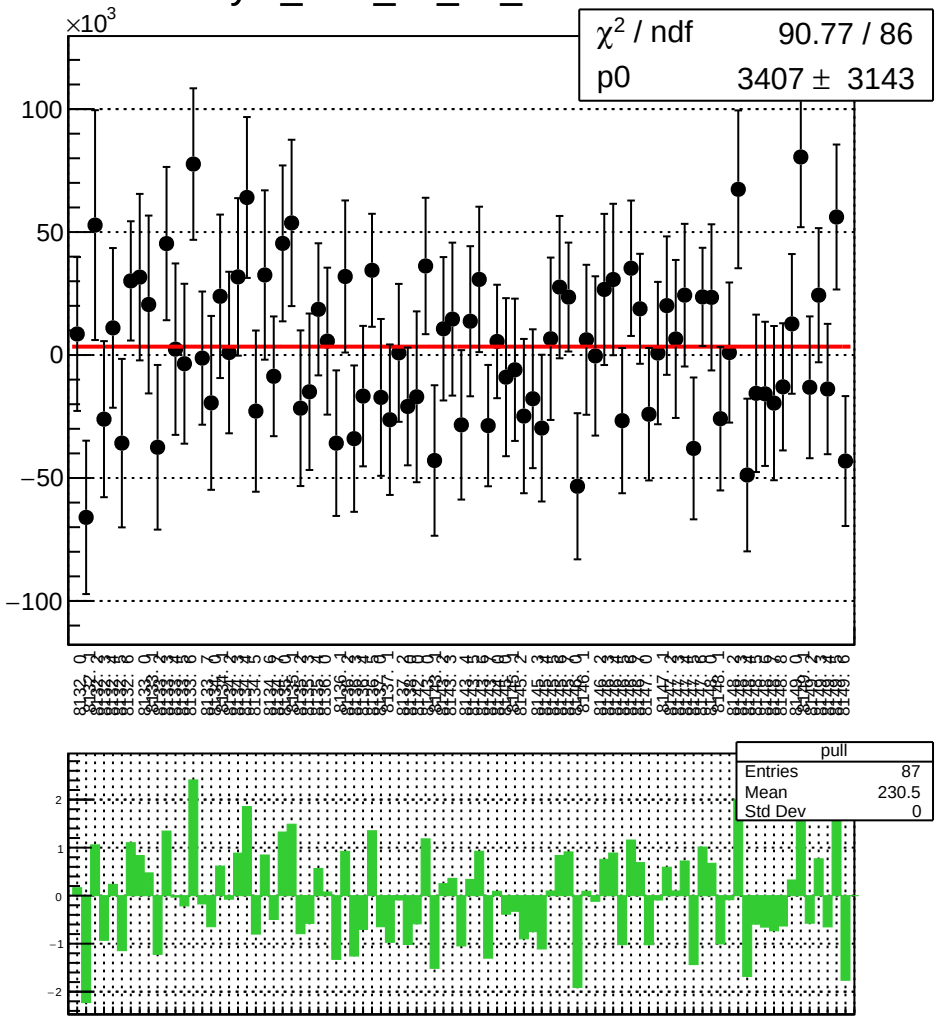

pull1D
Entries 87
Mean 0.004934
Std Dev 1.09

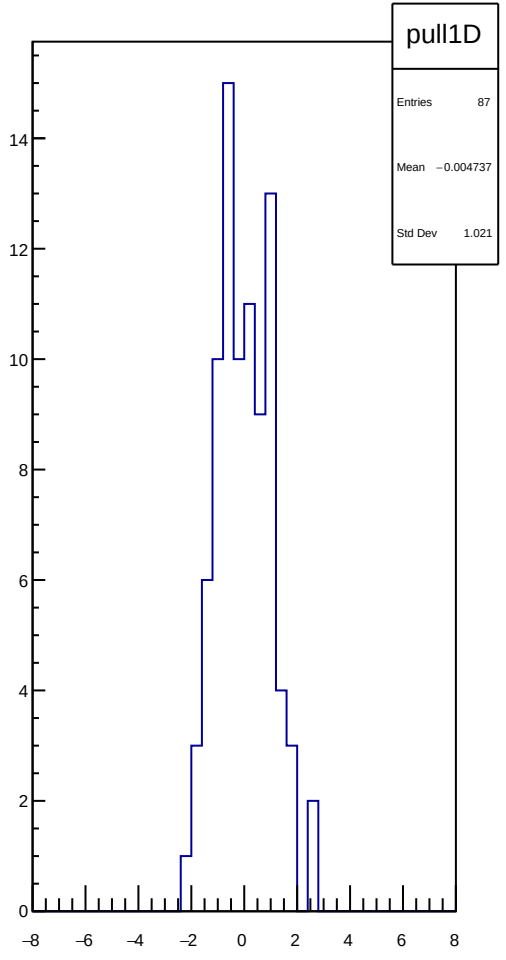

eigen_dit_asym_sam_26_dd_rms vs run
χ² / ndf 2.244e+04 / 86
p0 185.7 ± 0.1426
240
230
220
210
200
190
180
170
160

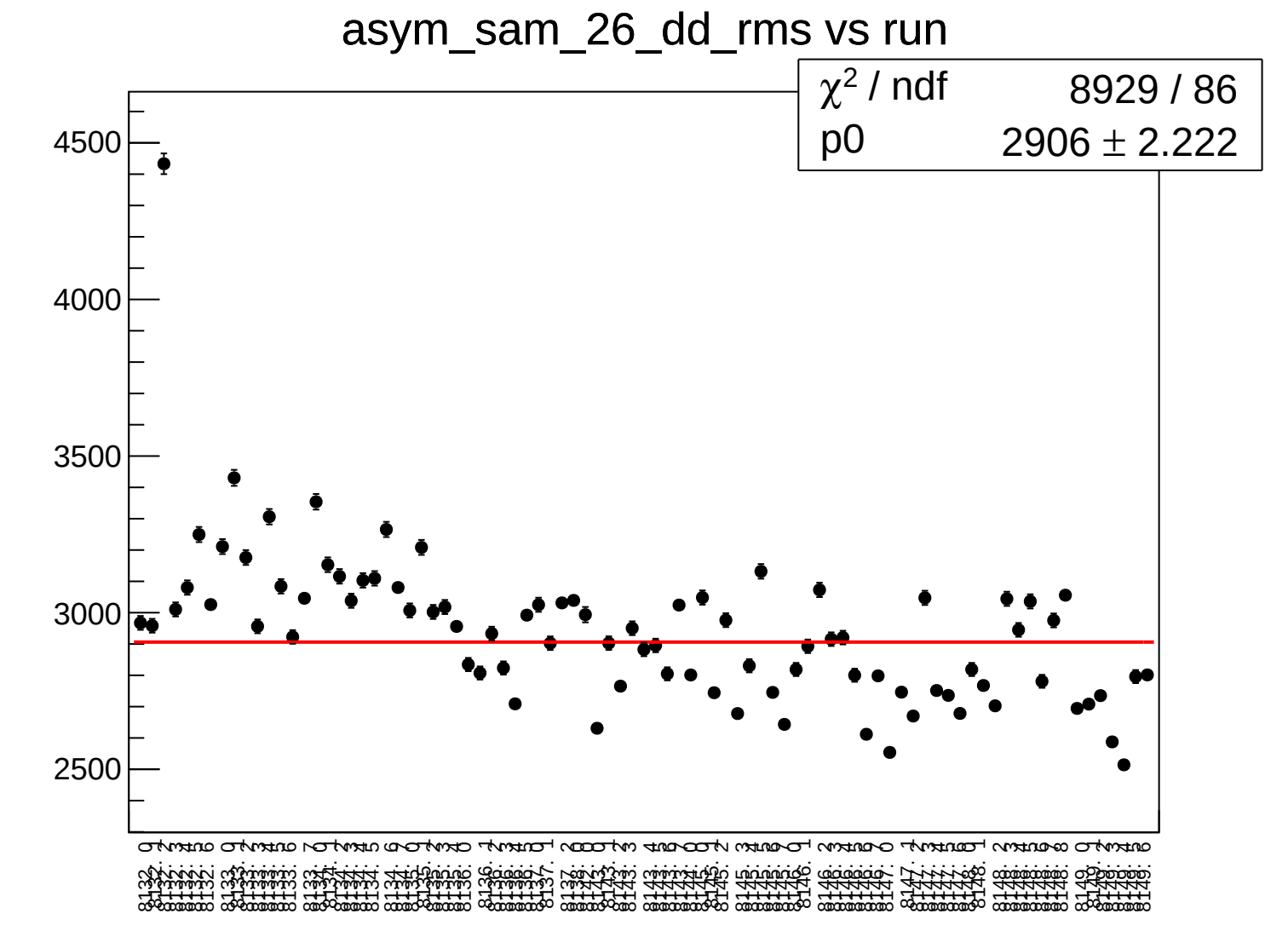

asym_sam_26_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 88.5 / 86
p0 −3373 ± 3186
100
50
0
−50
−100
pull
Entries 87
Mean 266.4
Std Dev 0
2
1
0
−1
−2
−3

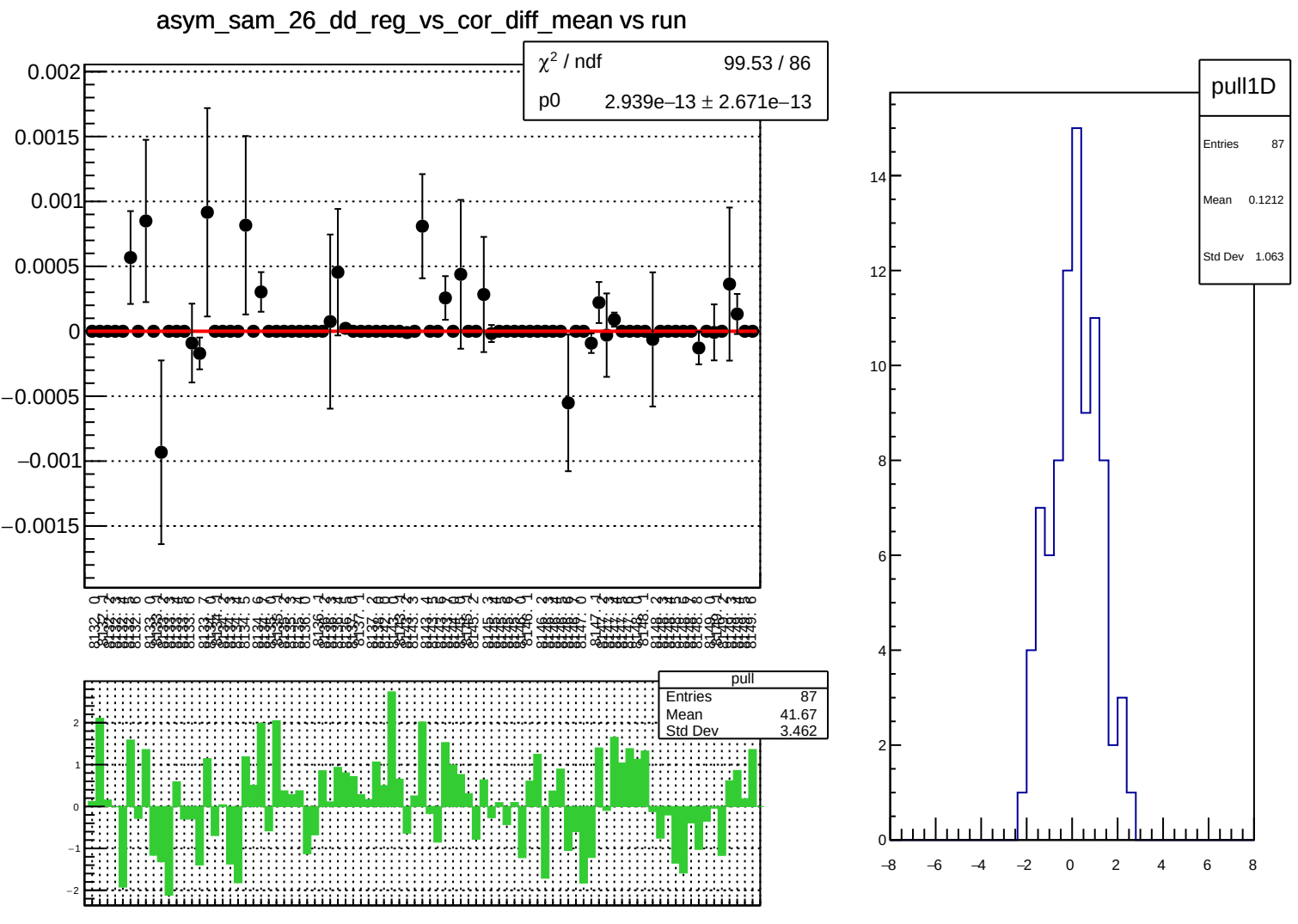

pull1D
Entries 87
Mean 0.004057
Std Dev 1.009
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

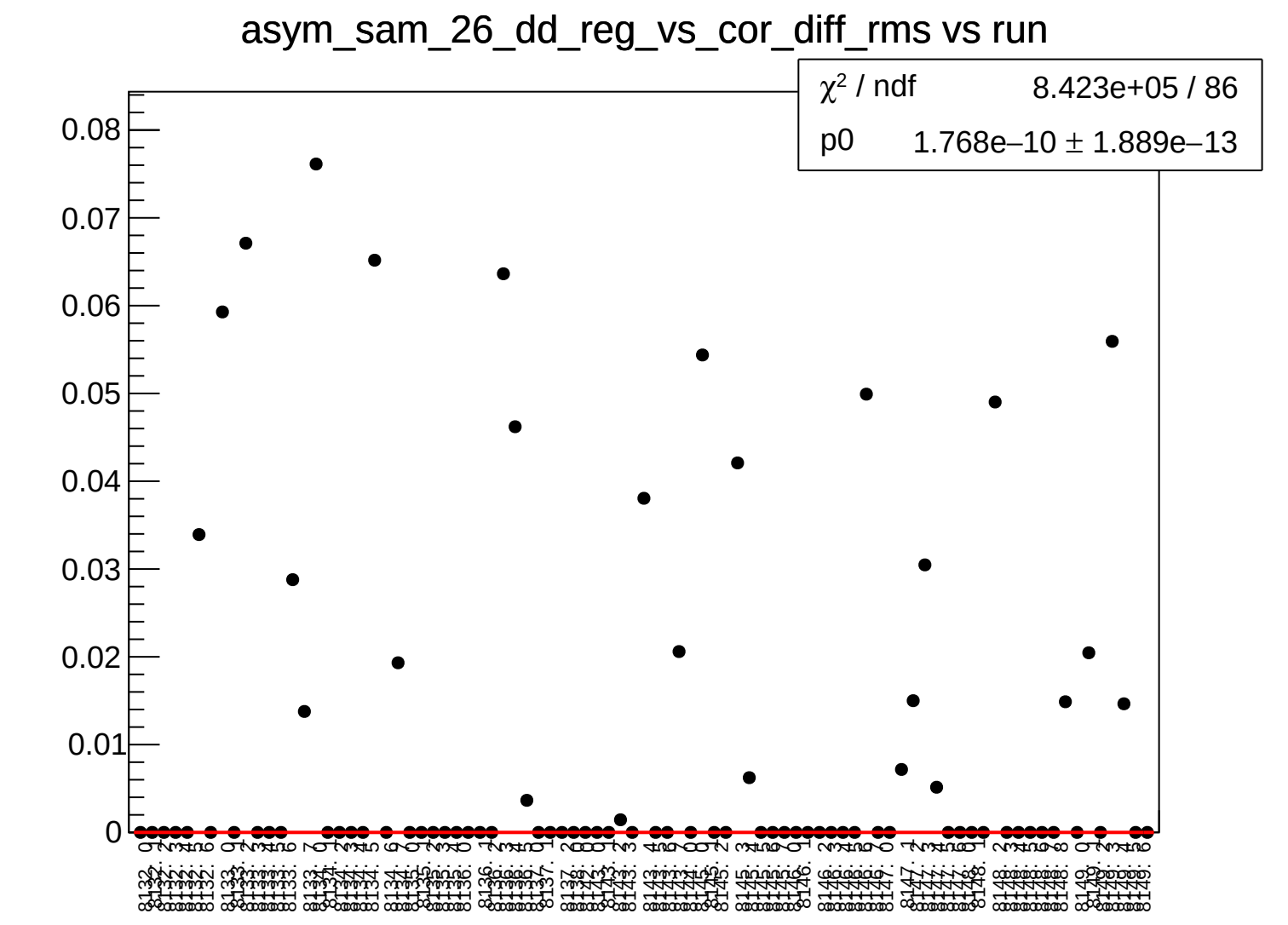

asym_sam_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 8957 / 86
p0 2945 ± 2.253
4500
4000
3500
3000
2500

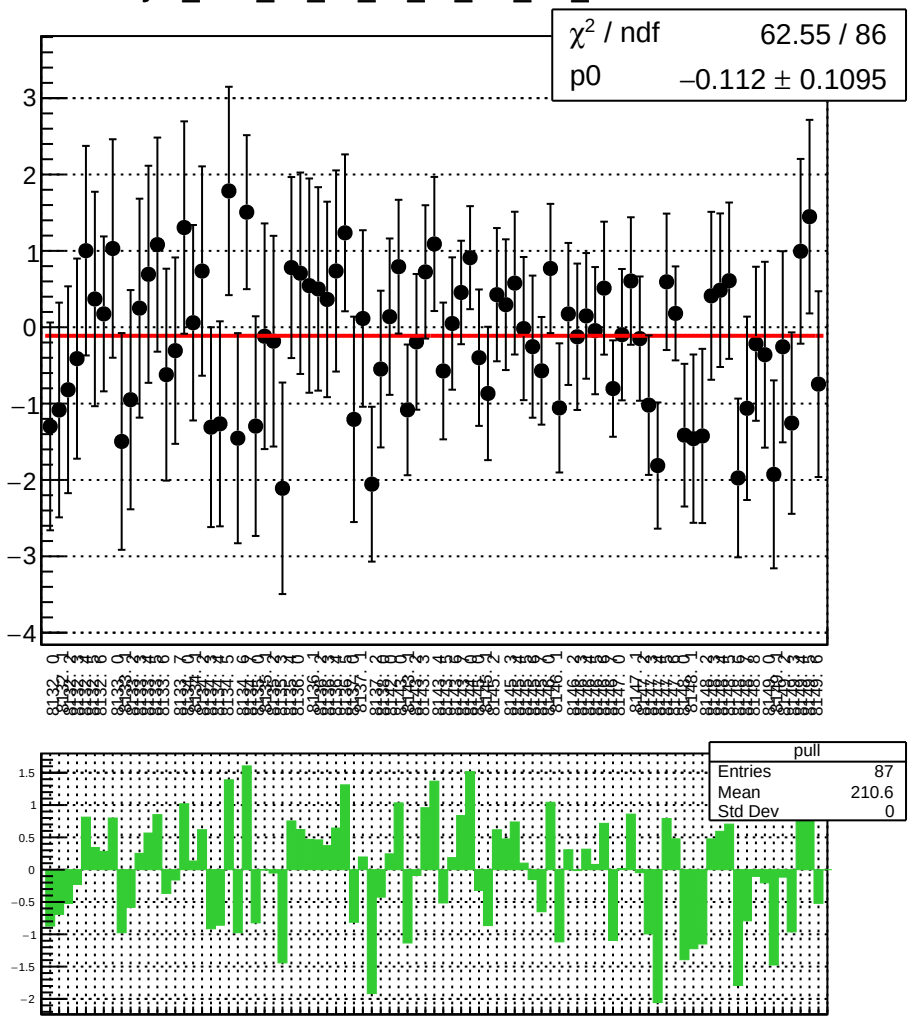

asym_sam_26_dd_mean vs run
×10^3
χ² / ndf 90.77 / 86
p0 3407 ± 3143
100
50
0
−50
−100
pull
Entries 87
Mean 230.5
Std Dev 0
2
1
0
−1
−2

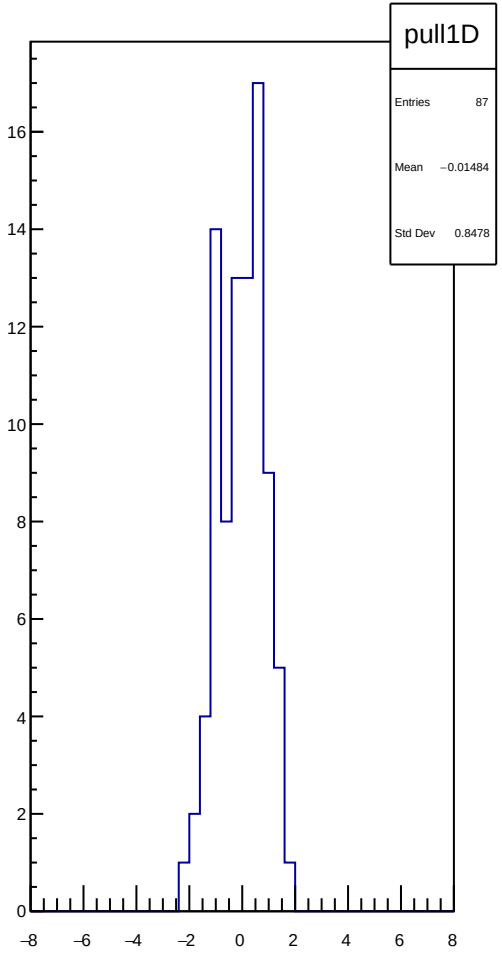

pull1D
Entries 87
Mean −0.004737
Std Dev 1.021
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

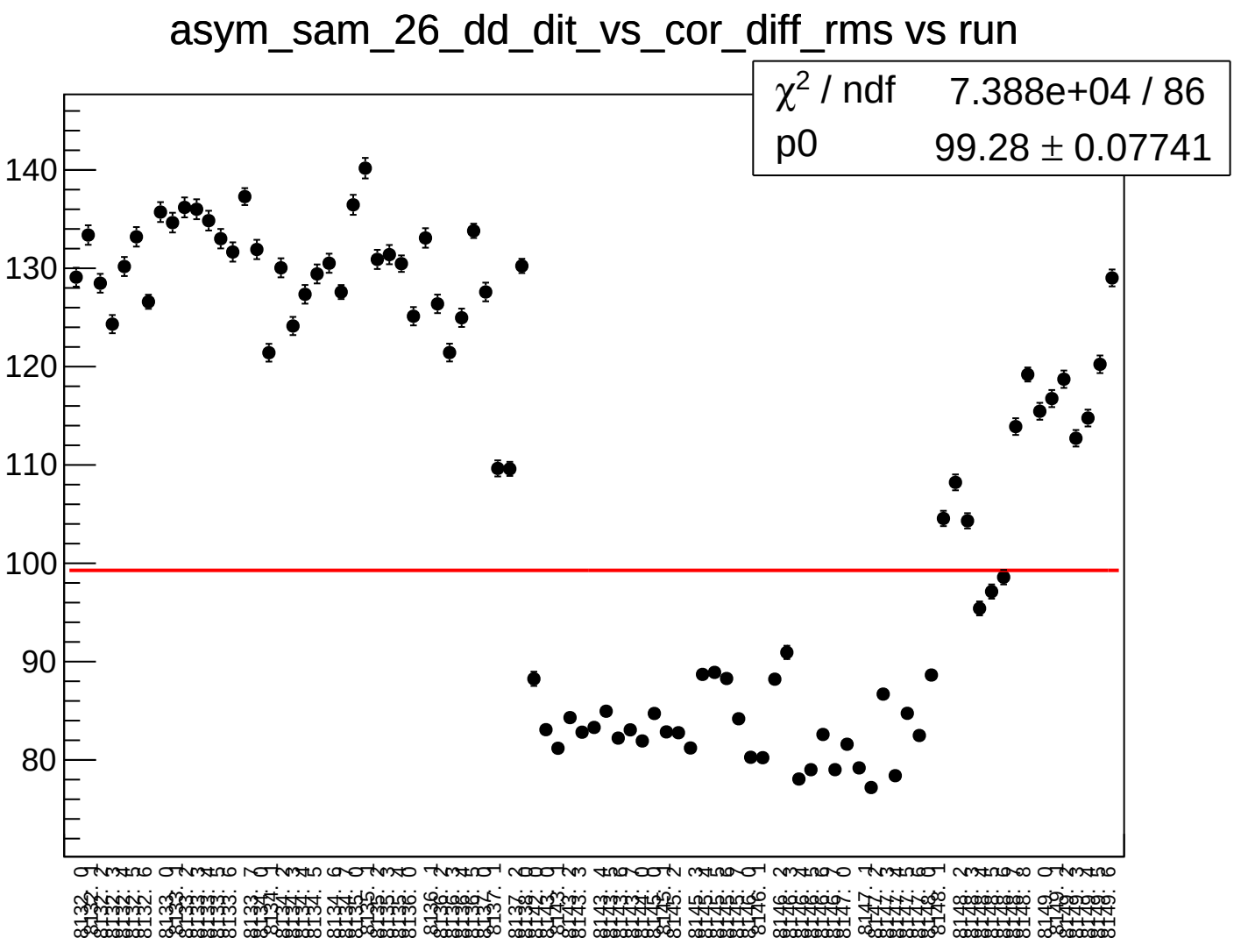

asym_sam_26_dd_rms vs run
χ² / ndf 8929 / 86
p0 2906 ± 2.222
4500
4000
3500
3000
2500

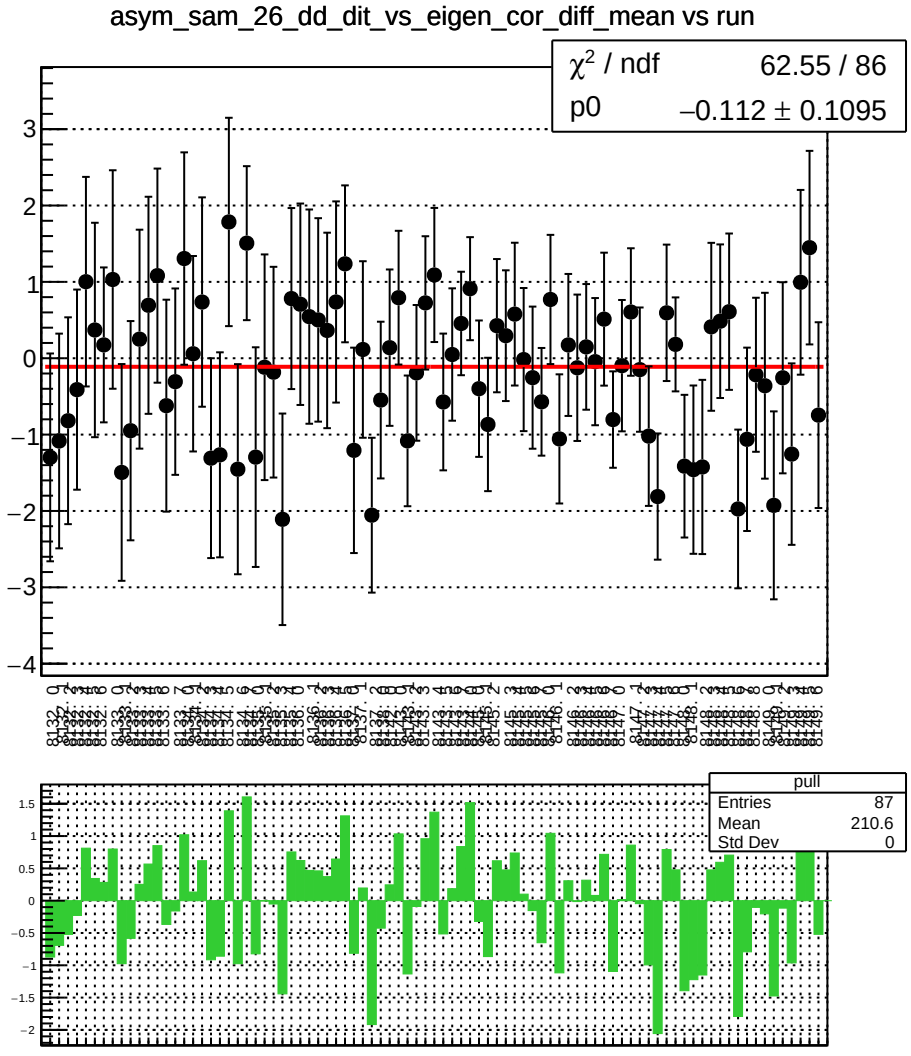

asym_sam_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 99.53 / 86
p0 2.939e−13 ± 2.671e−13
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 87
Mean 41.67
Std Dev 3.462
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.1212
Std Dev 1.063
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

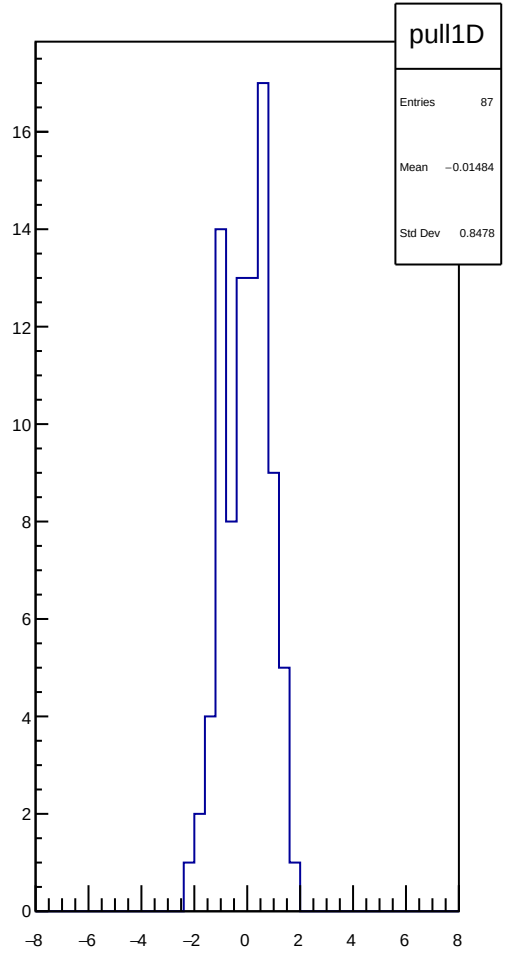

asym_sam_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.423e+05 / 86
p0 1.768e−10 ± 1.889e−13
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

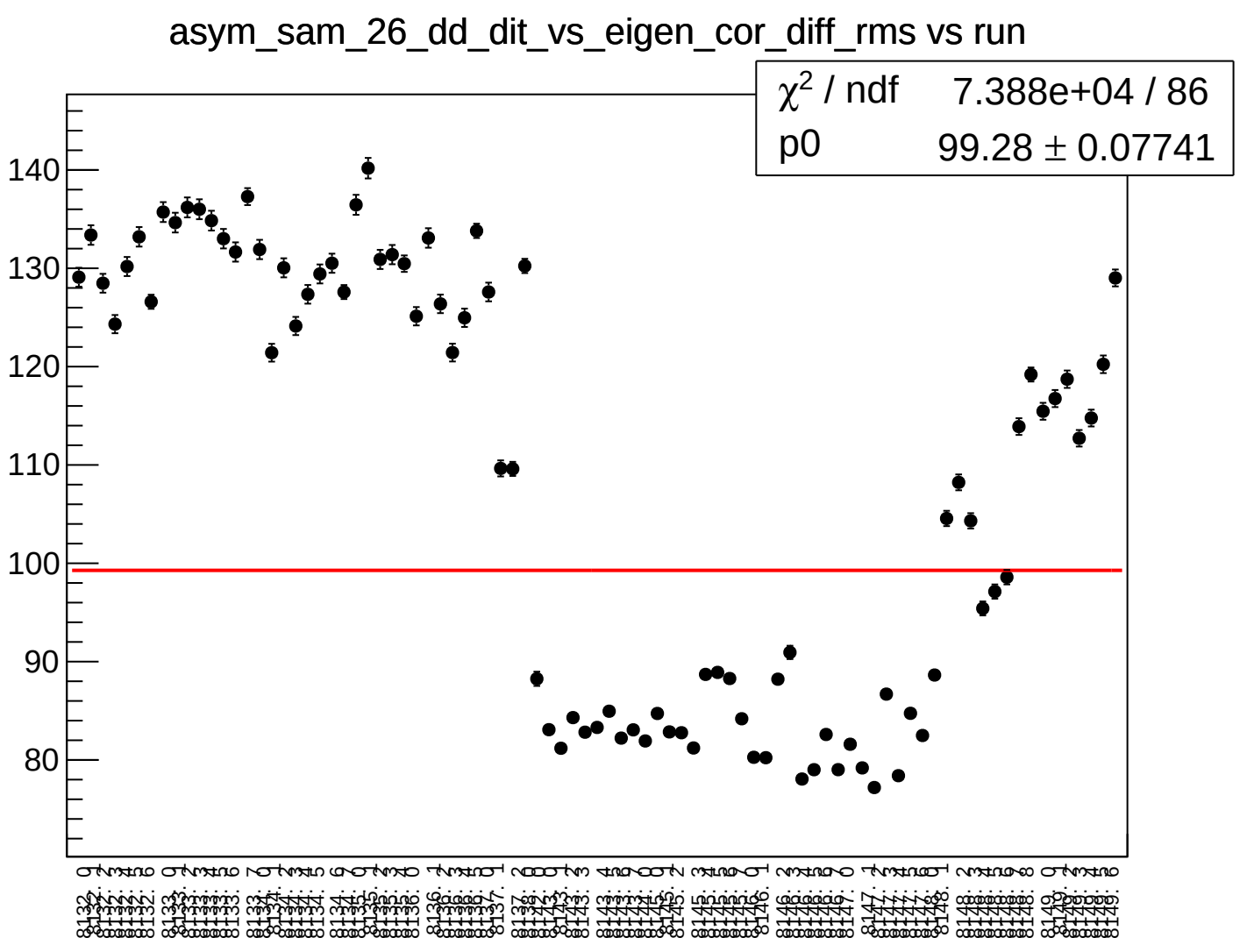

asym_sam_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 62.55 / 86
p0 −0.112 ± 0.1095
pull
Entries 87
Mean 210.6
Std Dev 0

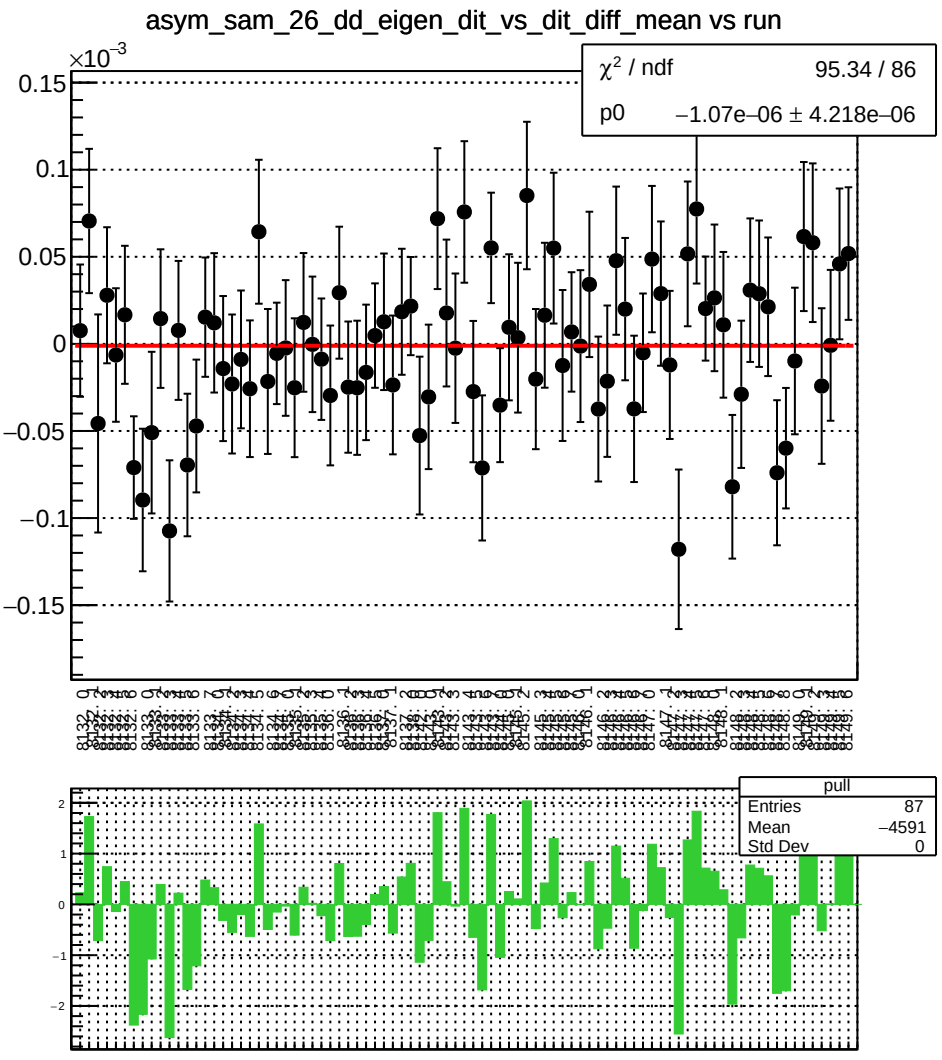

pull1D
Entries 87
Mean −0.01484
Std Dev 0.8478

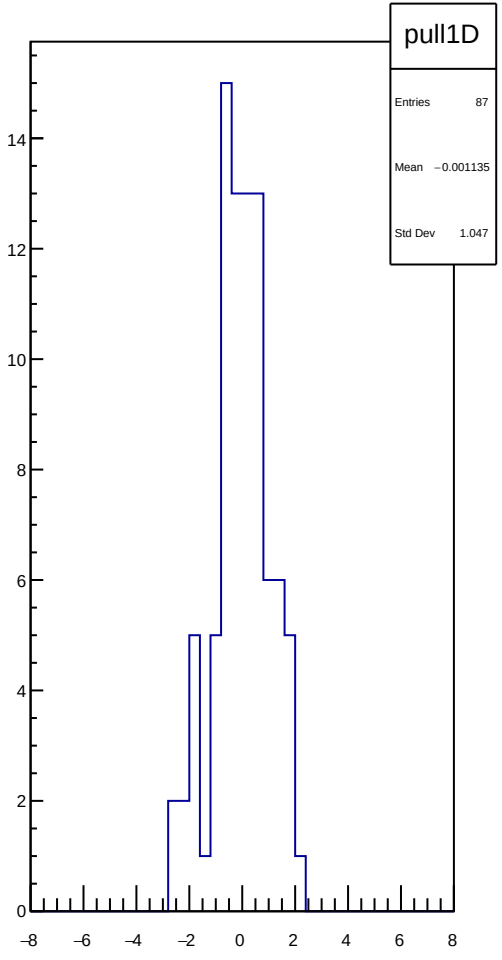

asym_sam_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.388e+04 / 86
p0 99.28 ± 0.07741
140
130
120
110
100
90
80

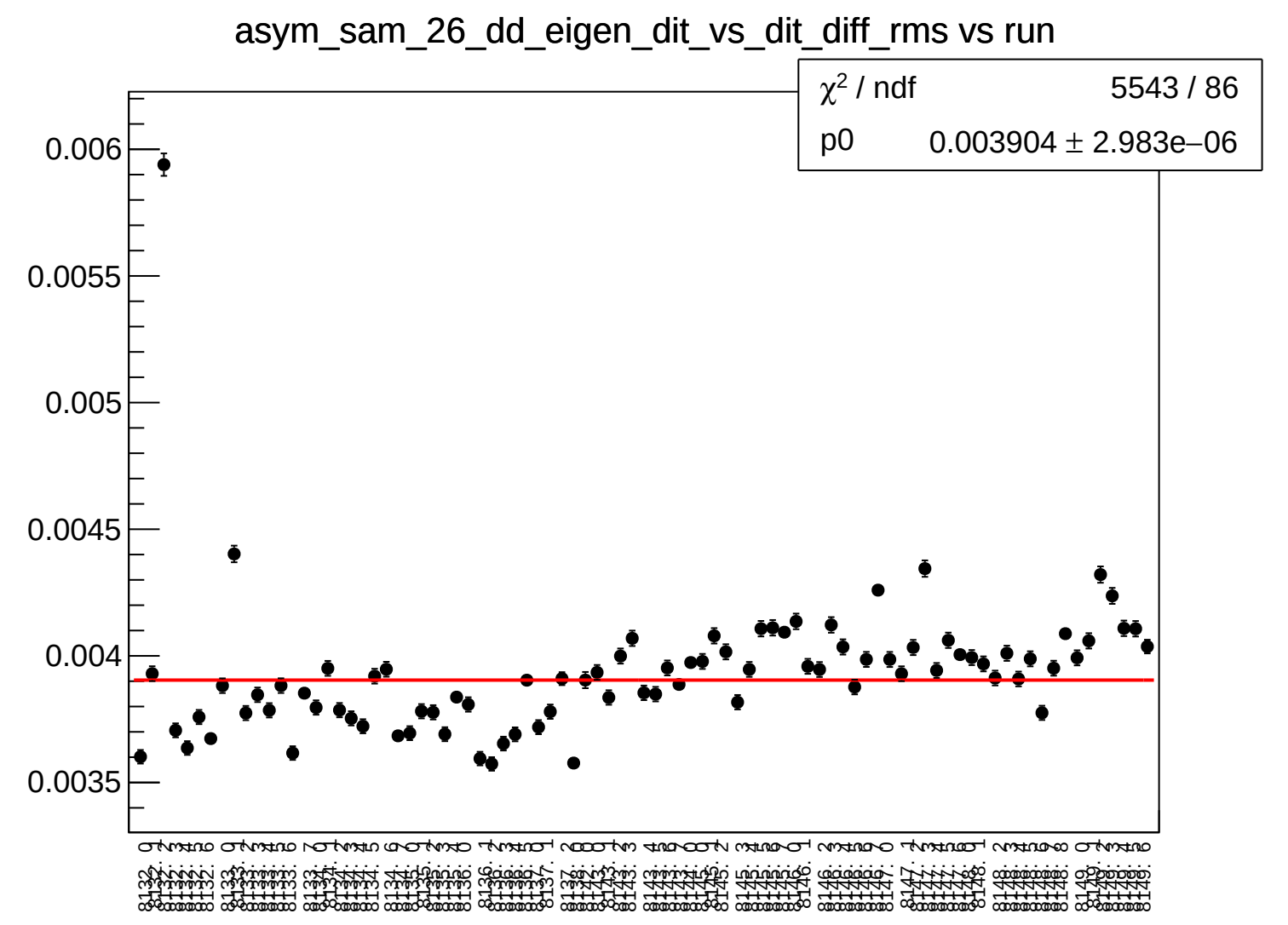

asym_sam_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 62.55 / 86
p0 −0.112 ± 0.1095
pull
Entries 87
Mean 210.6
Std Dev 0

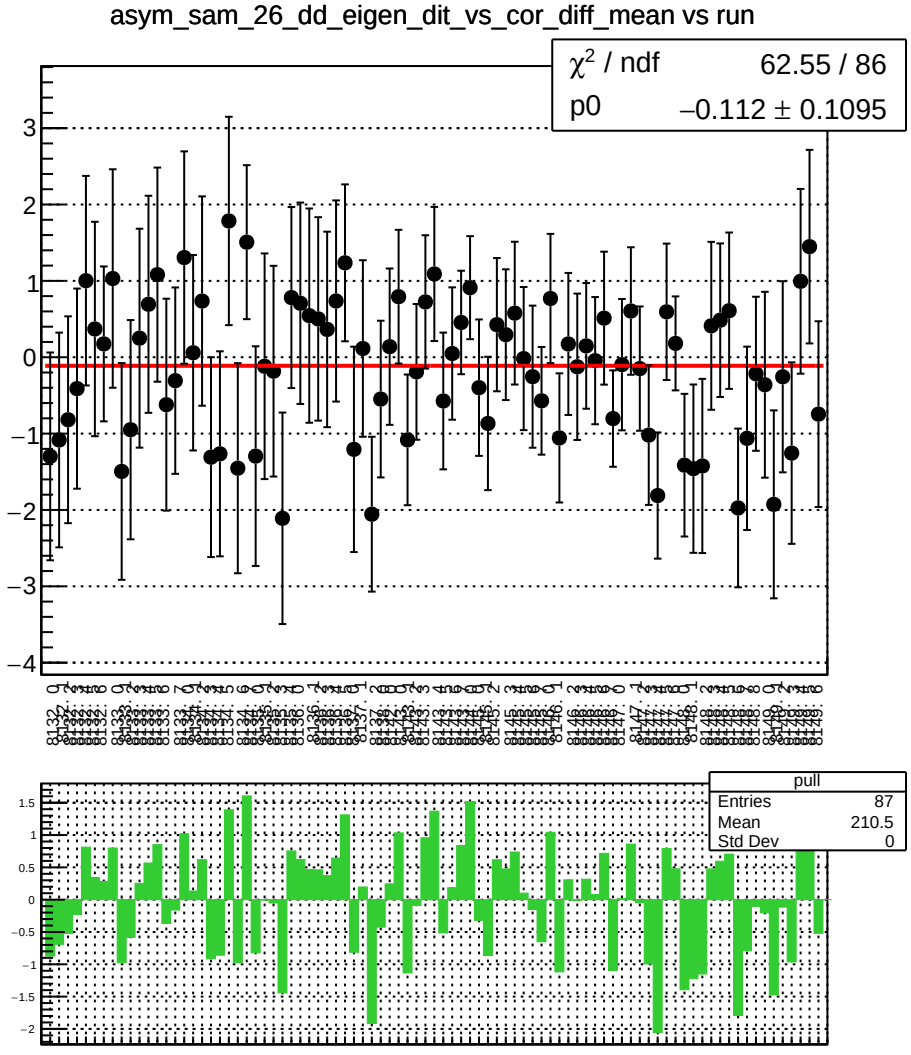

pull1D
Entries 87
Mean −0.01484
Std Dev 0.8478

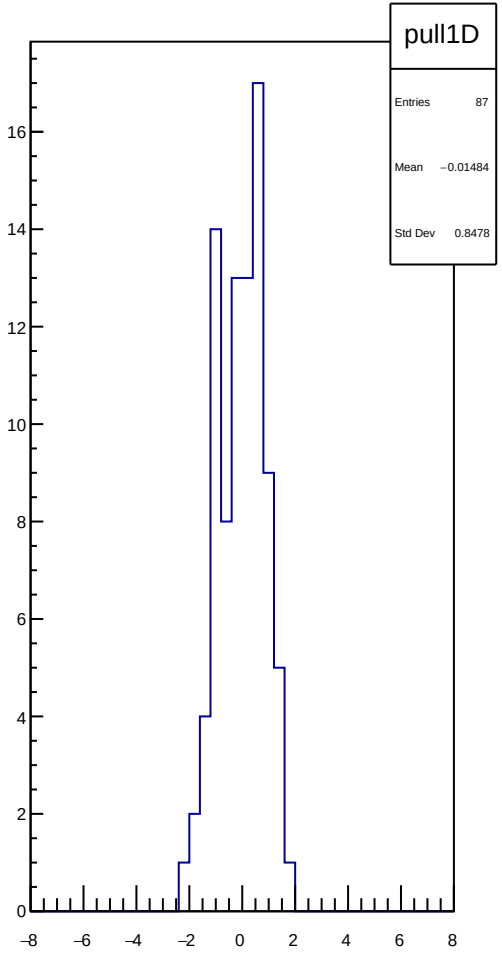

asym_sam_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.388e+04 / 86
p0 99.28 ± 0.07741
140
130
120
110
100
90
80

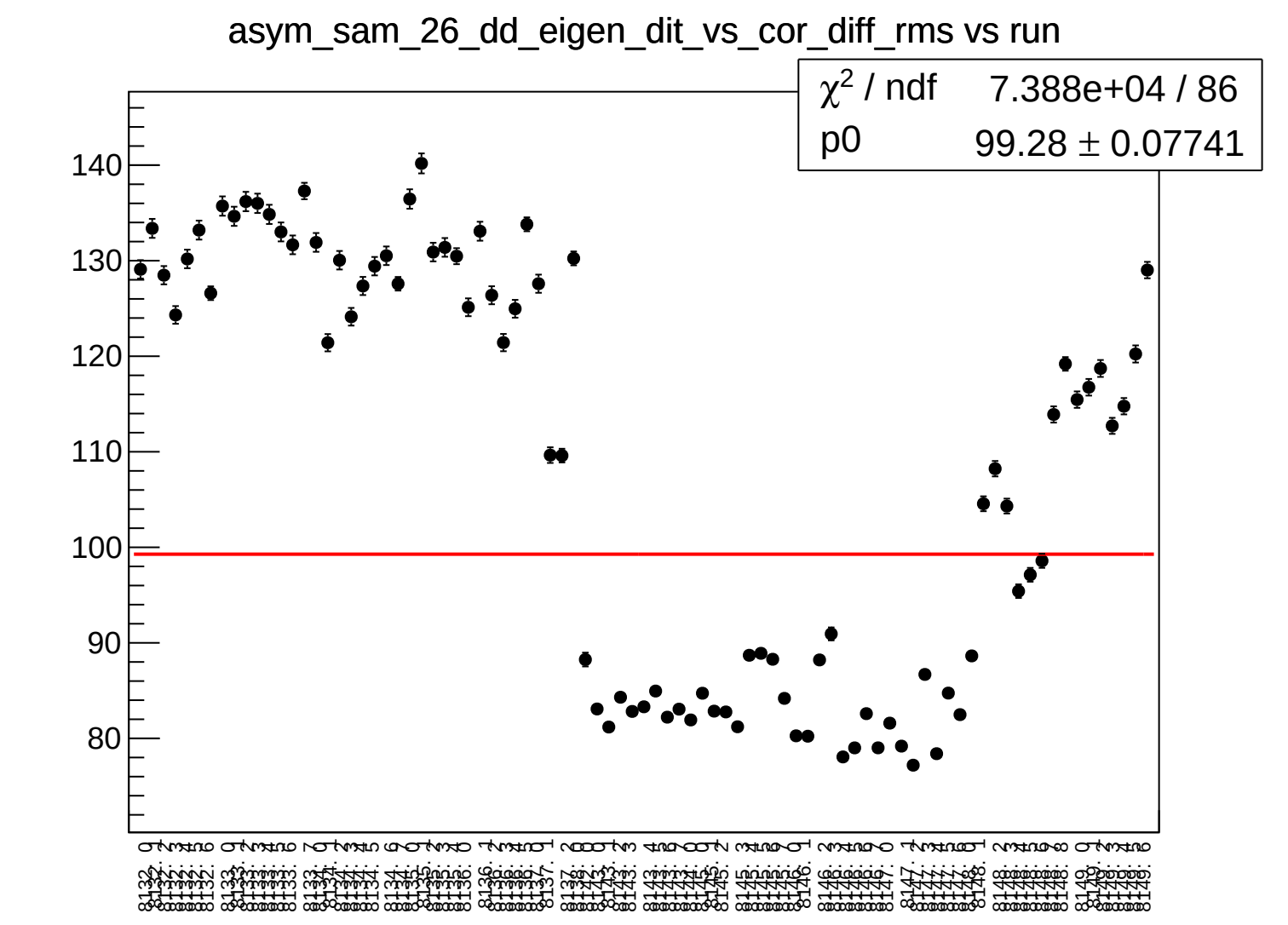

asym_sam_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.34 / 86
p0 −1.07e−06 ± 4.218e−06
pull
Entries 87
Mean −4591
Std Dev 0

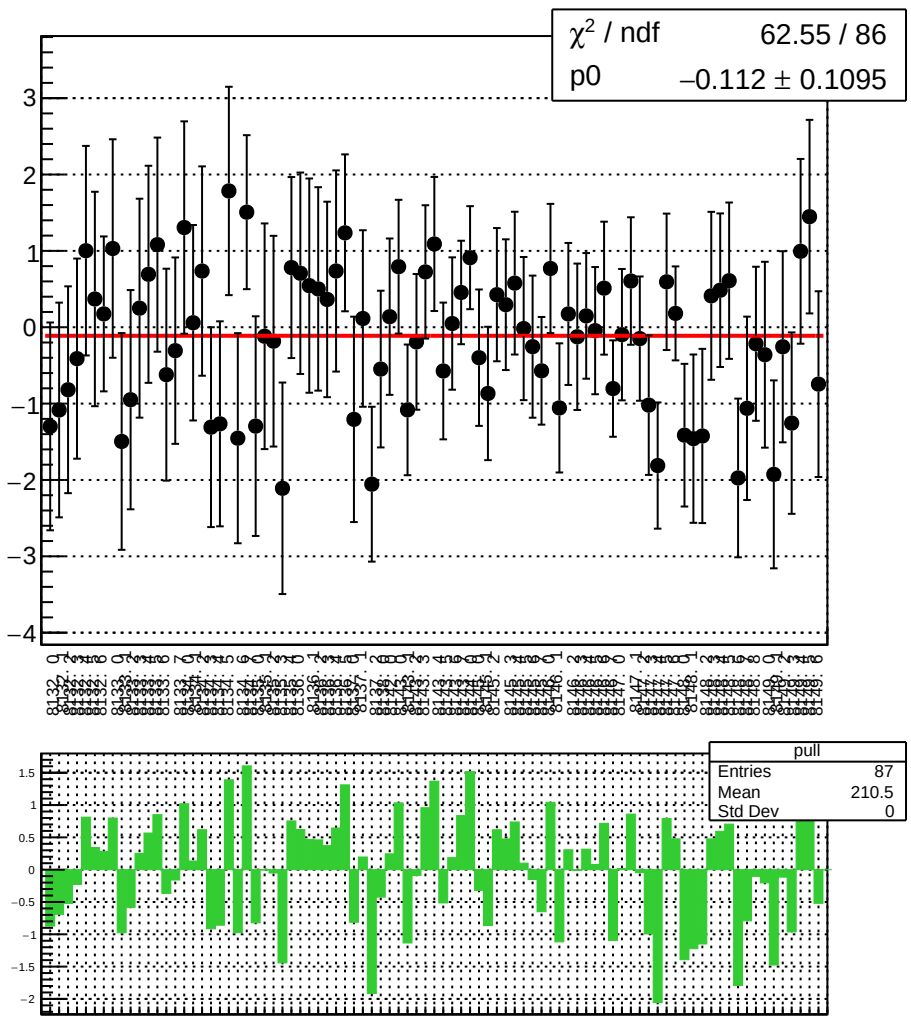

pull1D
Entries 87
Mean −0.001135
Std Dev 1.047

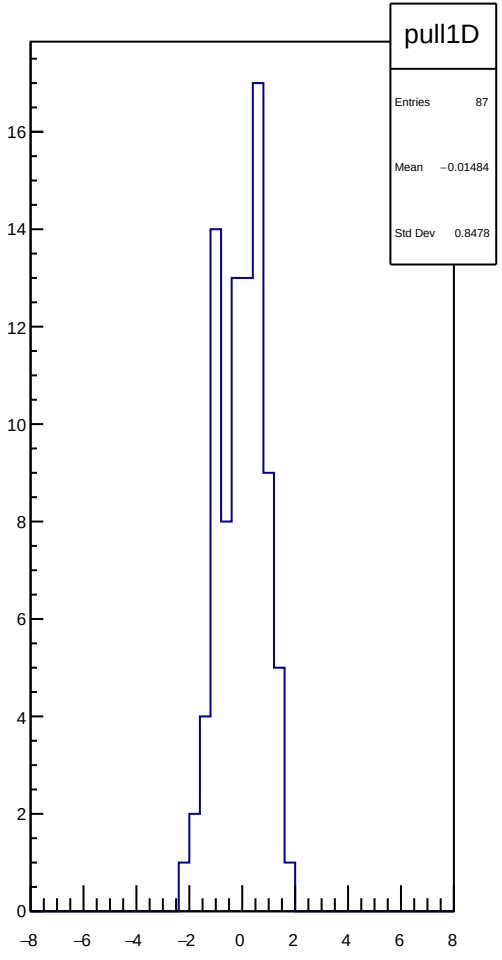

asym_sam_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5543 / 86
p0 0.003904 ± 2.983e−06
0.006
0.0055
0.005
0.0045
0.004
0.0035

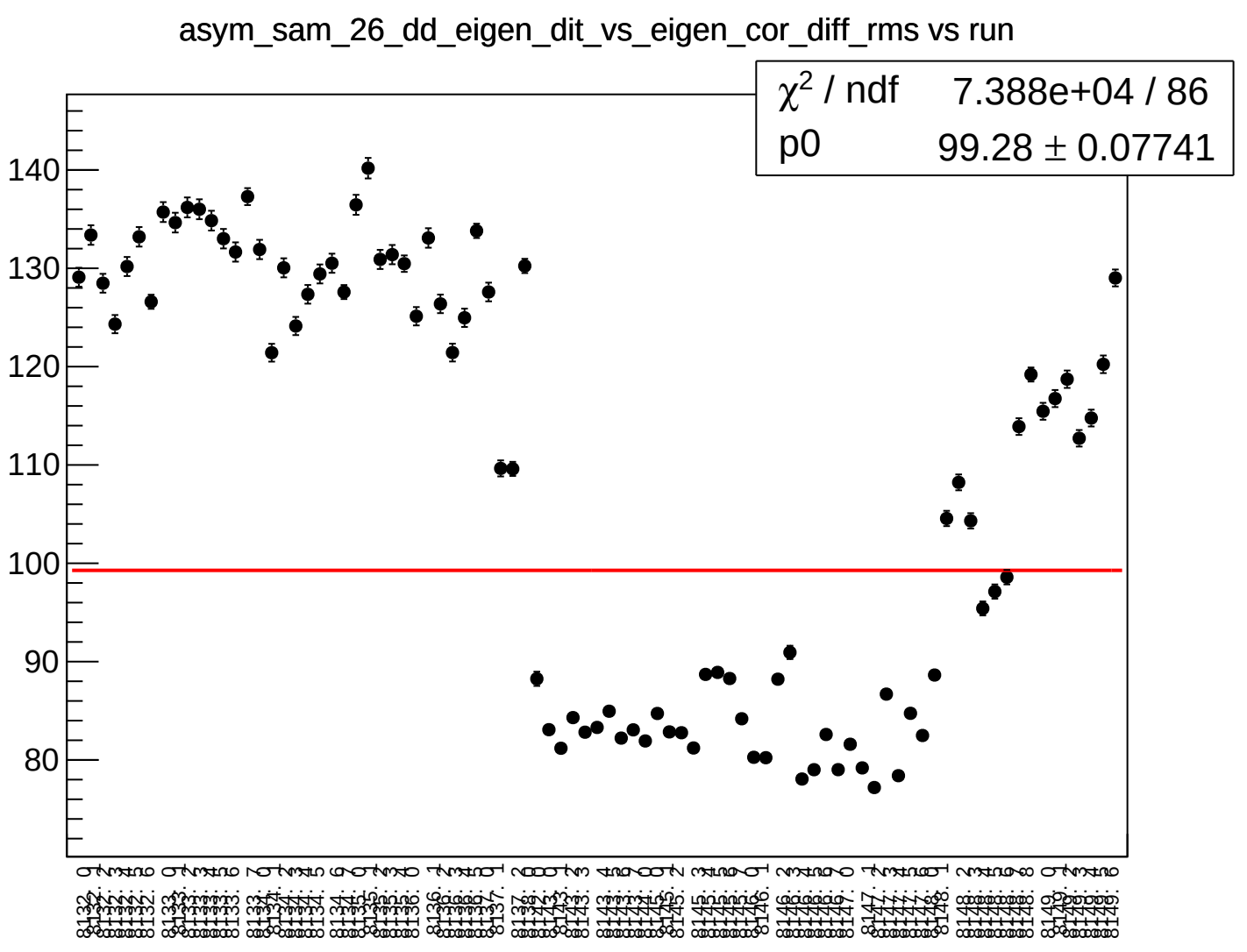

asym_sam_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 62.55 / 86
p0 −0.112 ± 0.1095
pull
Entries 87
Mean 210.5
Std Dev 0

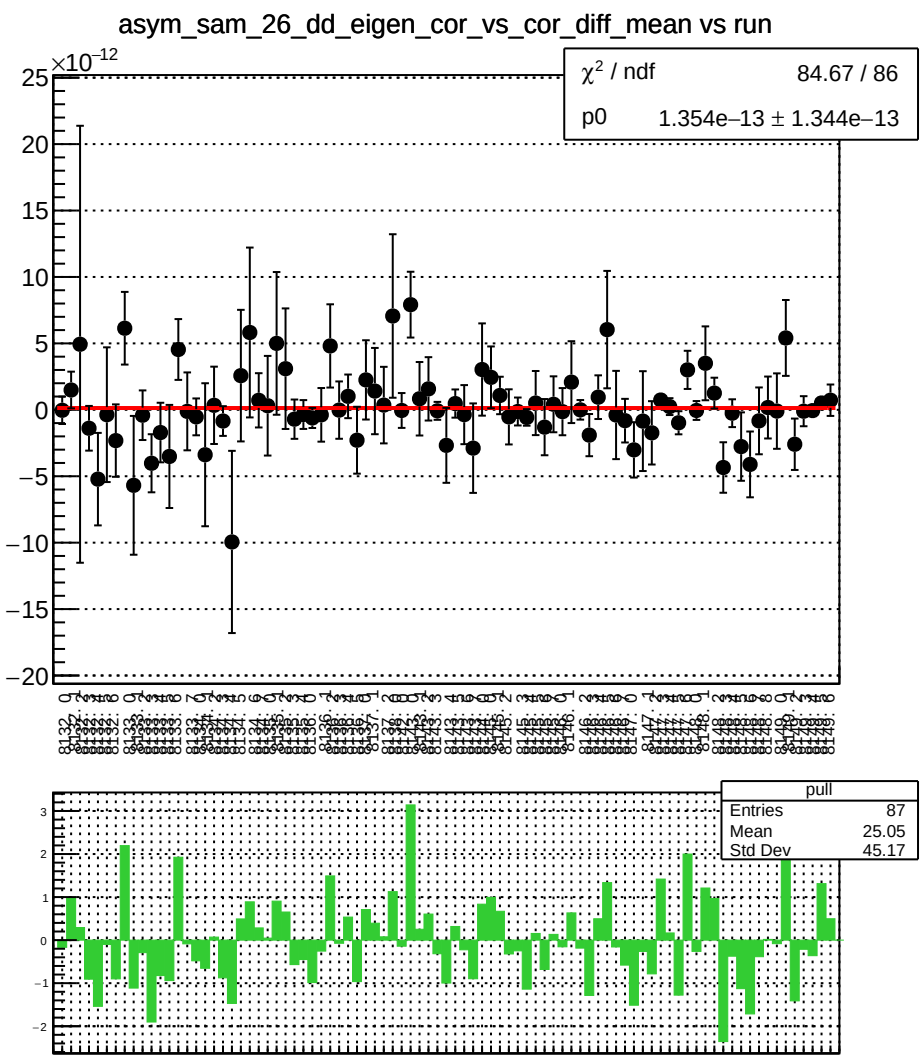

pull1D
Entries 87
Mean −0.01484
Std Dev 0.8478

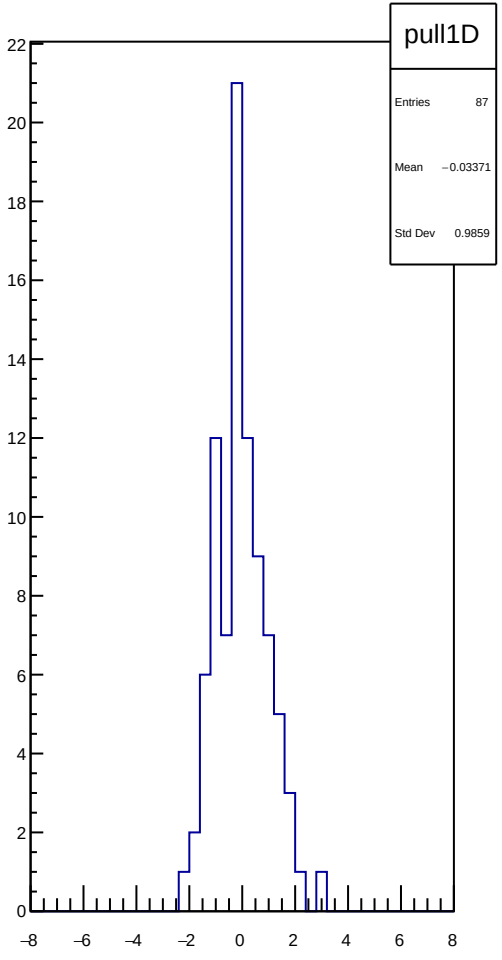

asym_sam_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.388e+04 / 86
p0 99.28 ± 0.07741
140
130
120
110
100
90
80

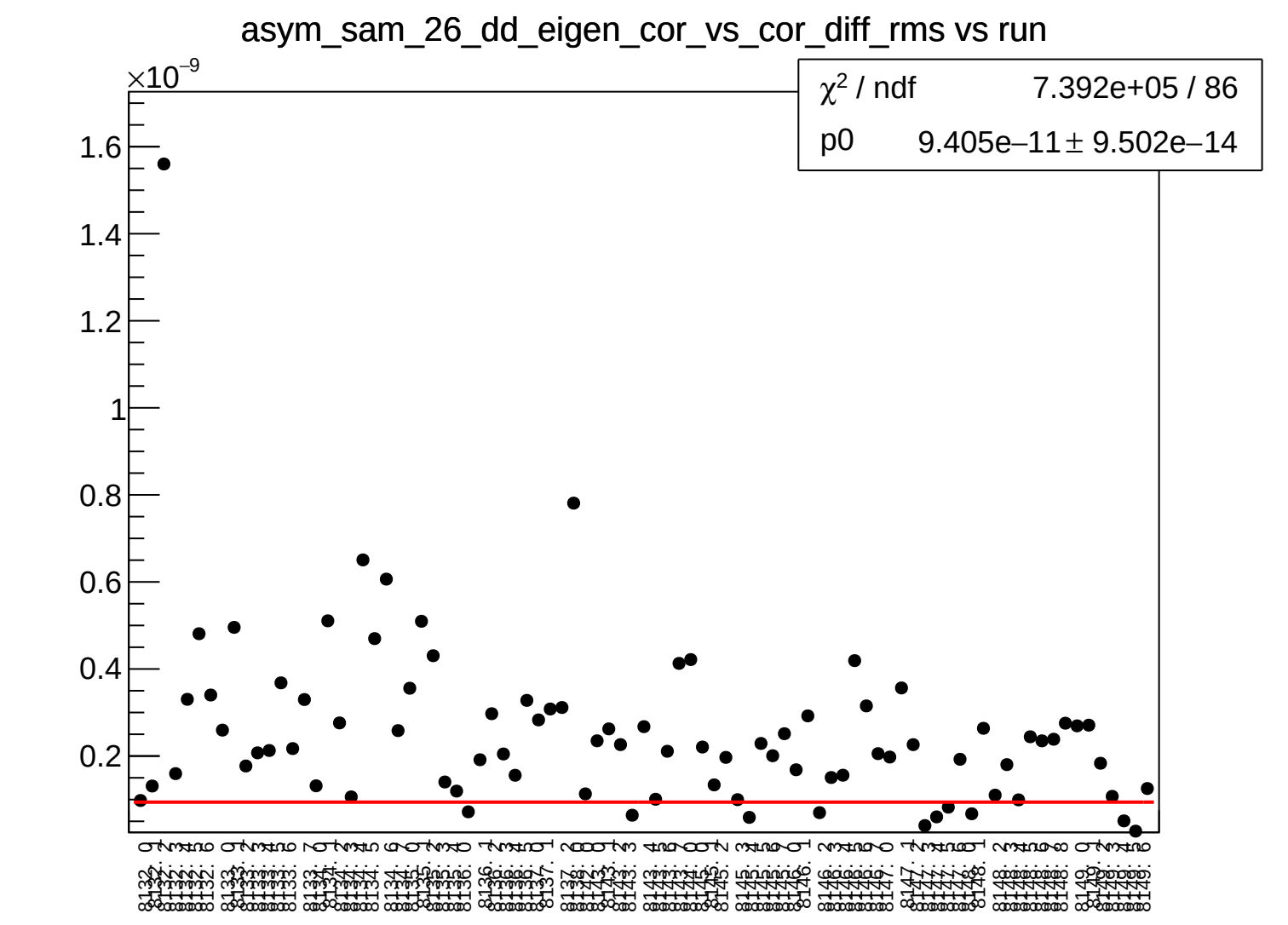

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 62.55 / 86
p0 −0.112 ± 0.1095
pull
Entries 87
Mean 210.5
Std Dev 0

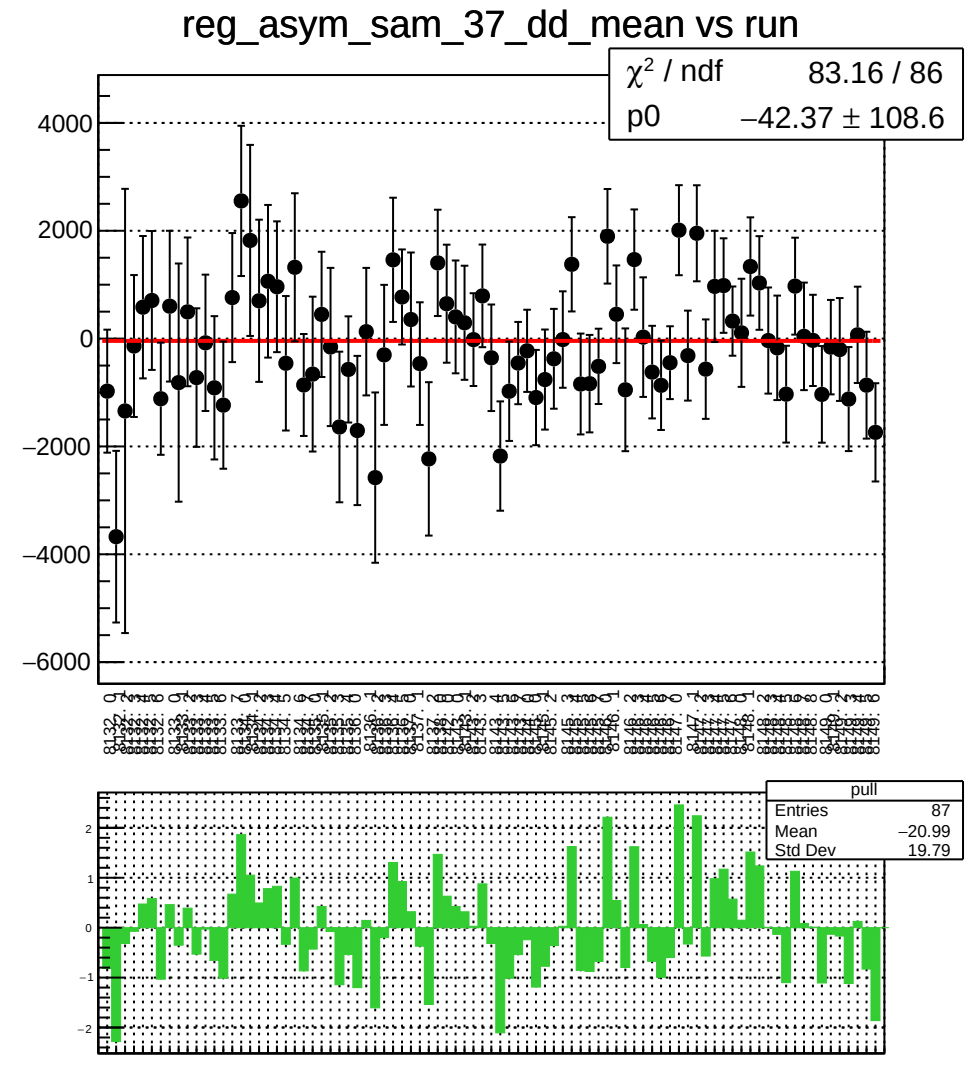

pull1D
Entries 87
Mean −0.01484
Std Dev 0.8478

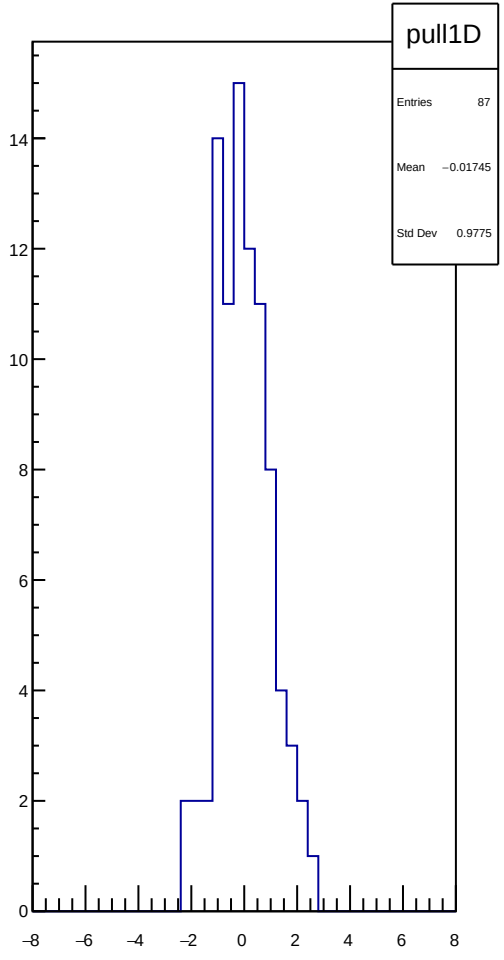

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.388e+04 / 86
p0 99.28 ± 0.07741
140
130
120
110
100
90
80

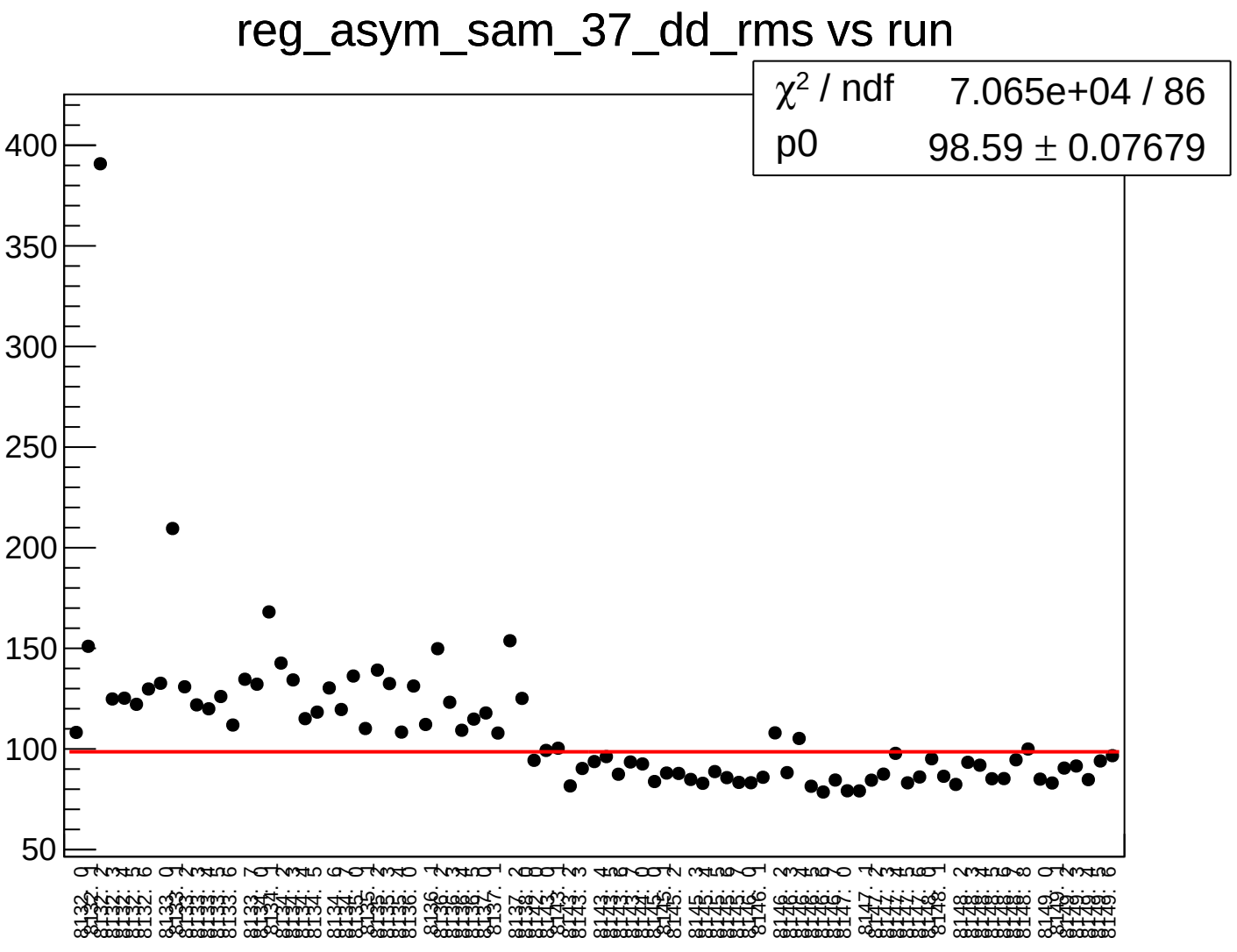

asym_sam_26_dd_eigen_cor_vs_cor_diff_mean vs run
χ² / ndf 84.67 / 86
p0 1.354e−13 ± 1.344e−13
pull
Entries 87
Mean 25.05
Std Dev 45.17

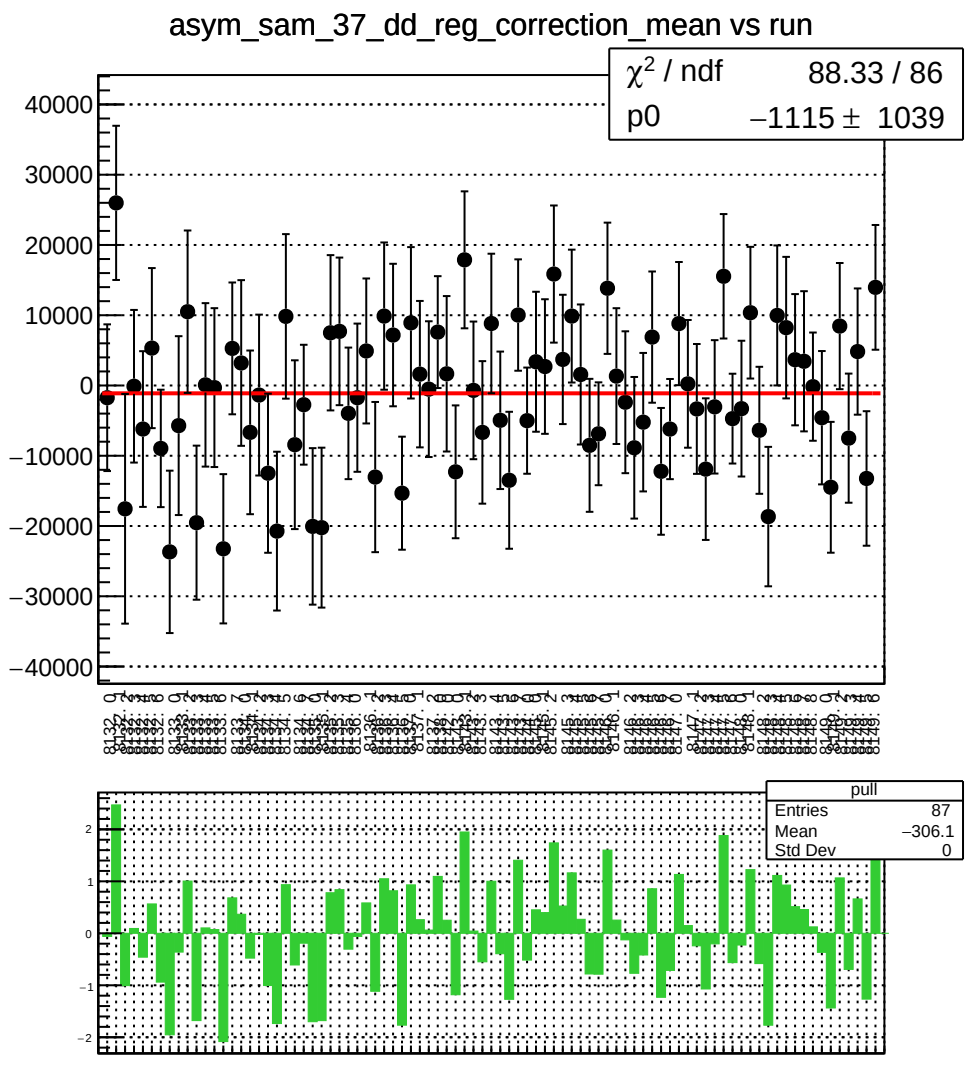

pull1D
Entries 87
Mean −0.03371
Std Dev 0.9859

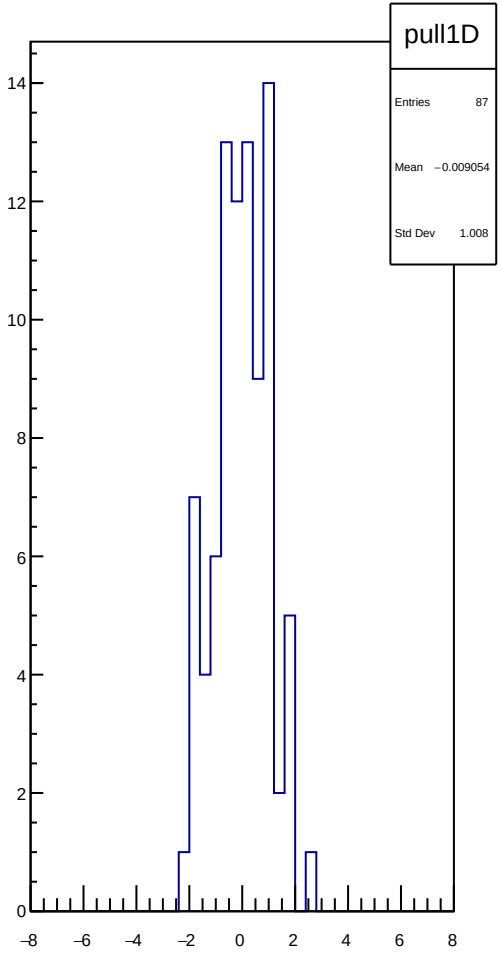

asym_sam_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.392e+05 / 86
p0 9.405e−11 ± 9.502e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

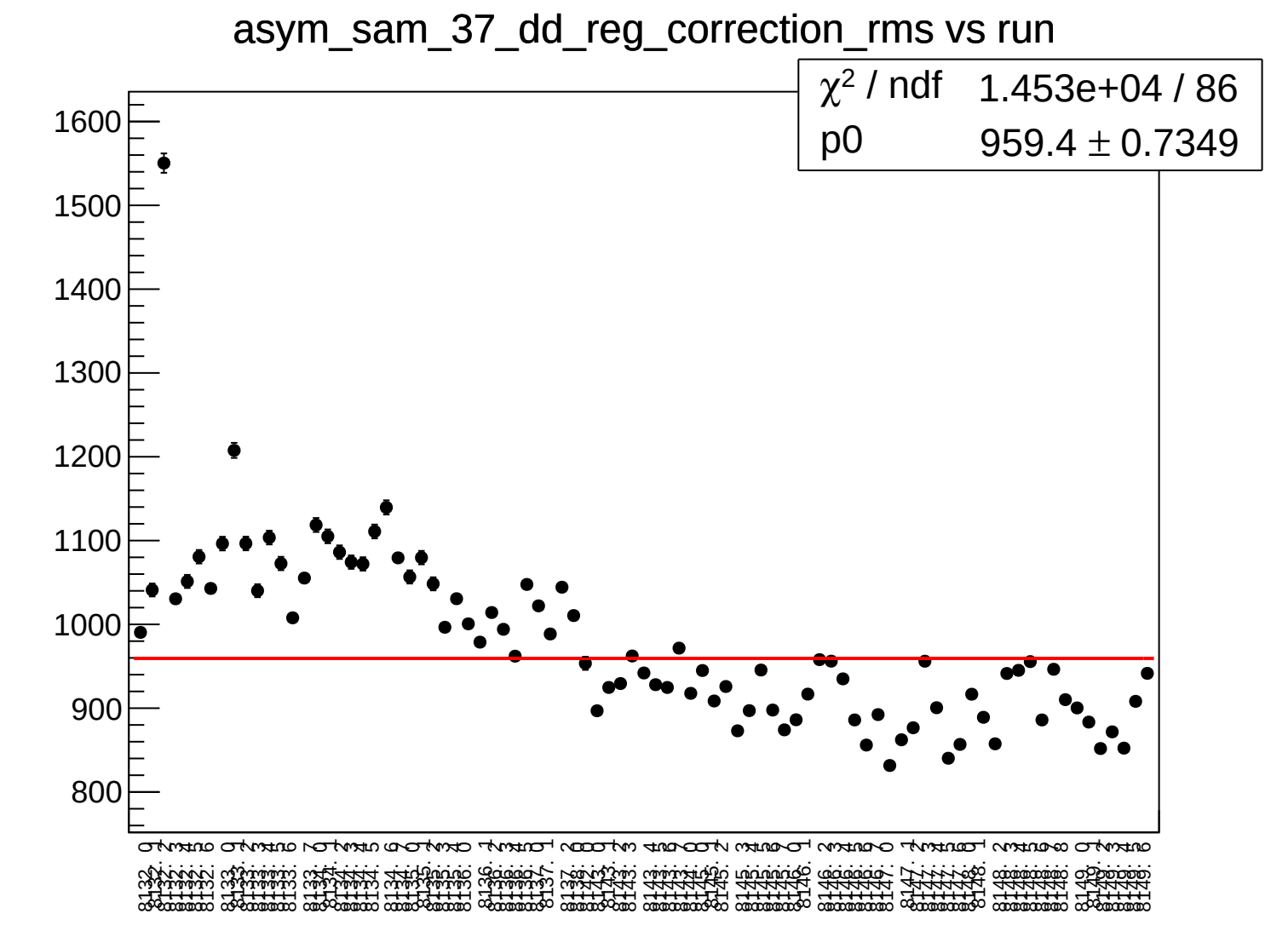

reg_asym_sam_37_dd_mean vs run
χ² / ndf 83.16 / 86
p0 −42.37 ± 108.6
4000
2000
0
−2000
−4000
−6000
pull
Entries 87
Mean −20.99
Std Dev 19.79
2
1
0
−1
−2

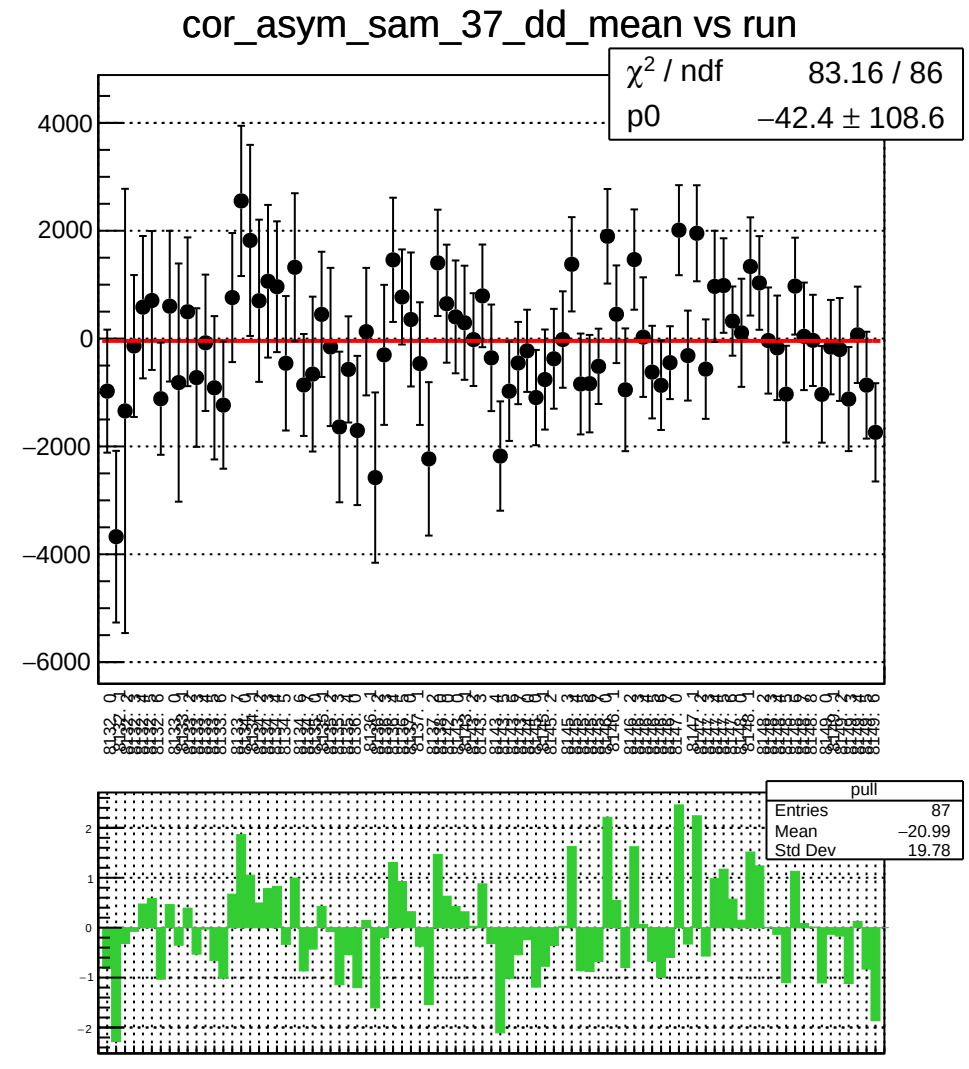

pull1D
Entries 87
Mean −0.01745
Std Dev 0.9775
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

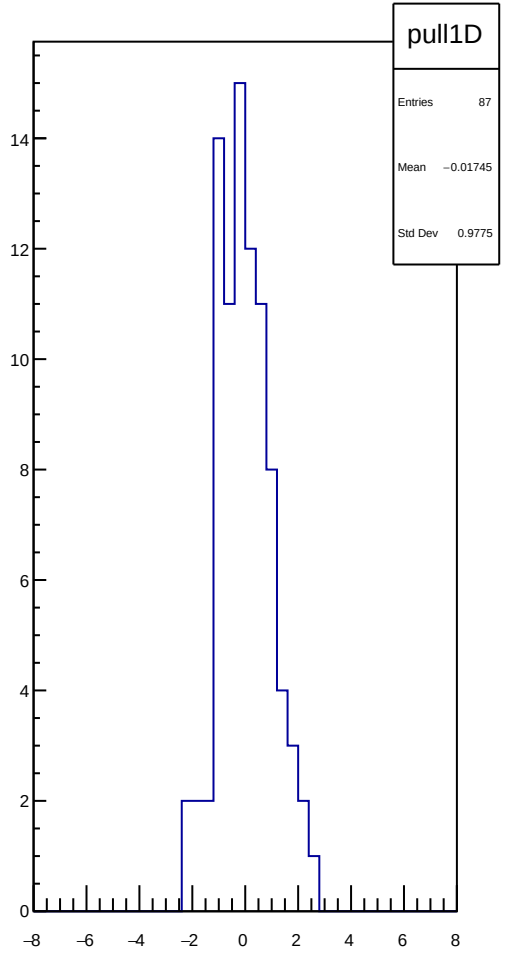

reg_asym_sam_37_dd_rms vs run
χ^2 / ndf 7.065e+04 / 86
p0 98.59 ± 0.07679
400
350
300
250
200
150
100
50

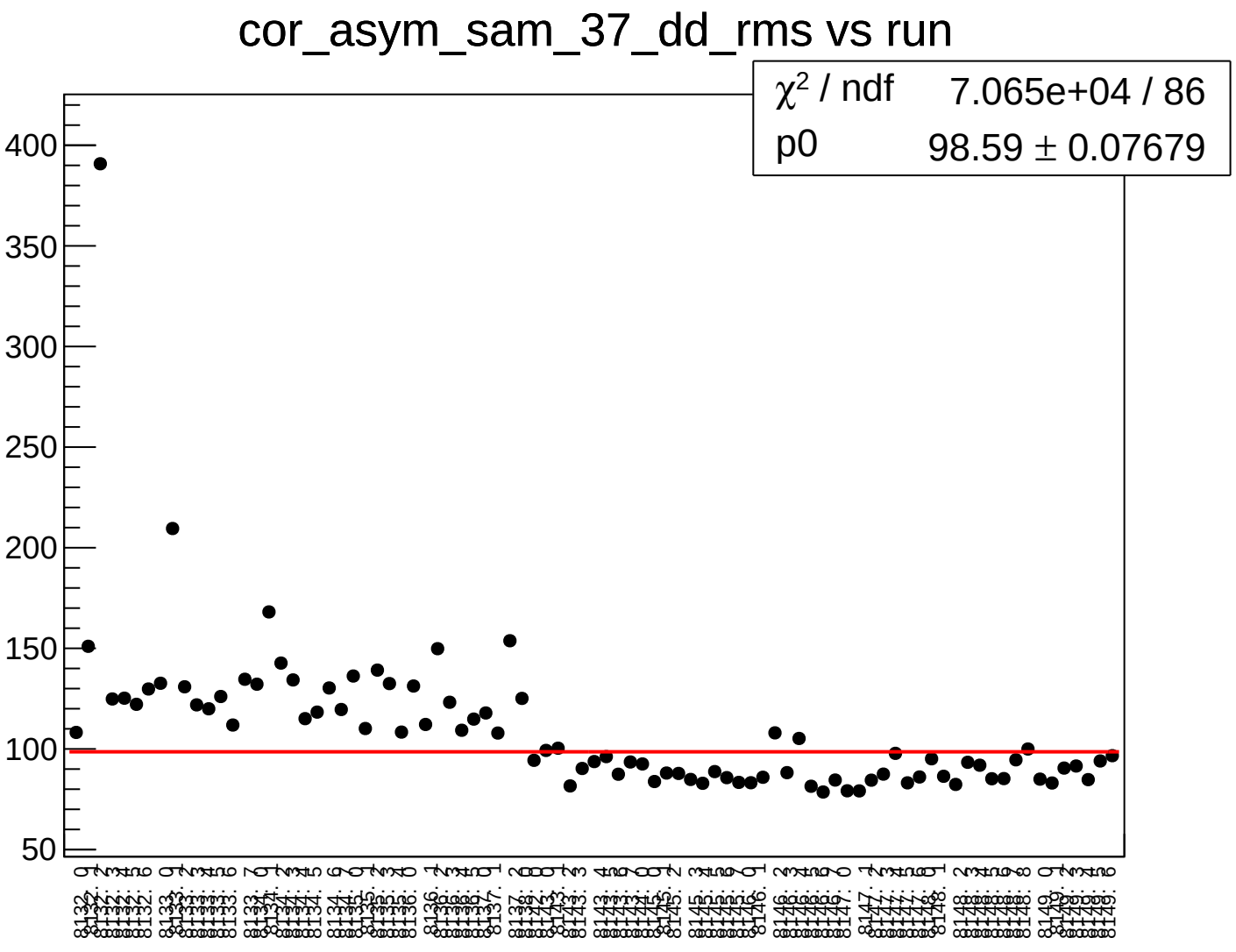

asym_sam_37_dd_reg_correction_mean vs run
χ² / ndf 88.33 / 86
p0 −1115 ± 1039
pull
Entries 87
Mean −306.1
Std Dev 0

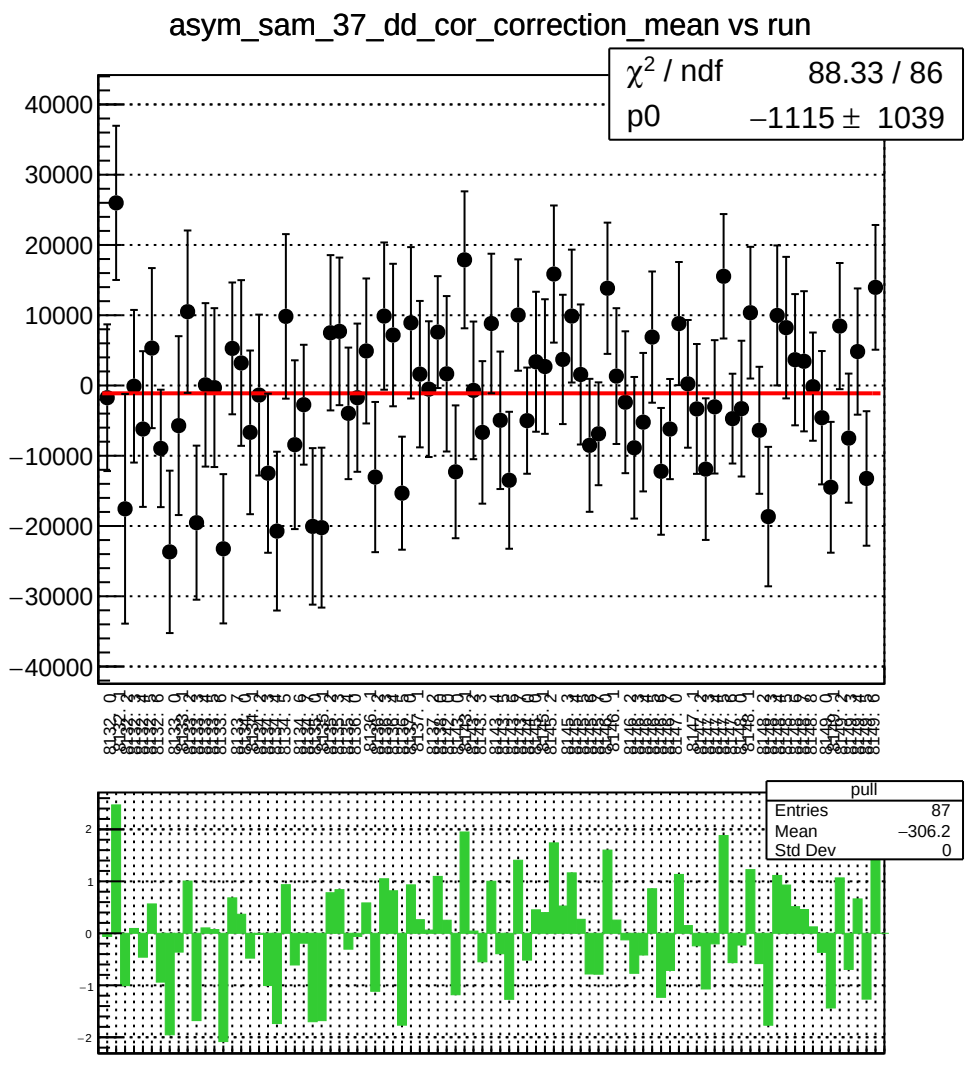

pull1D
Entries 87
Mean −0.009054
Std Dev 1.008

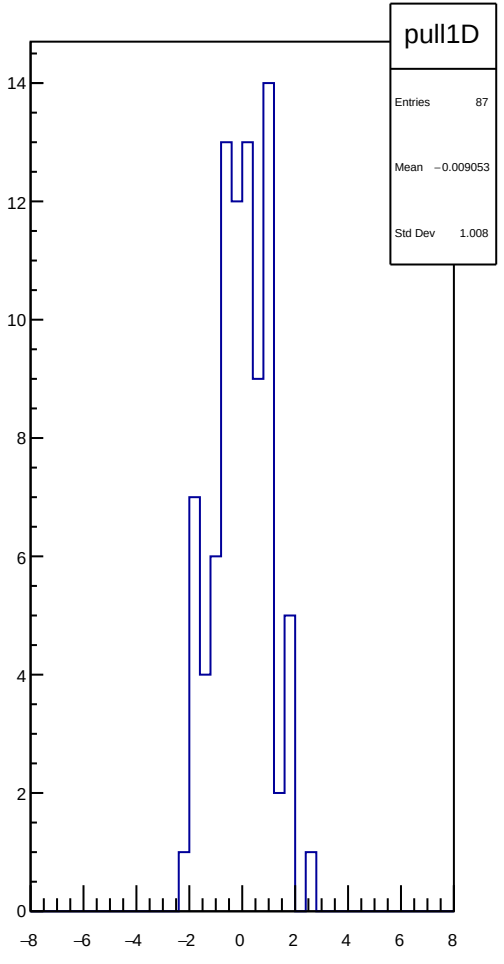

asym_sam_37_dd_reg_correction_rms vs run
χ² / ndf 1.453e+04 / 86
p0 959.4 ± 0.7349
1600
1500
1400
1300
1200
1100
1000
900
800

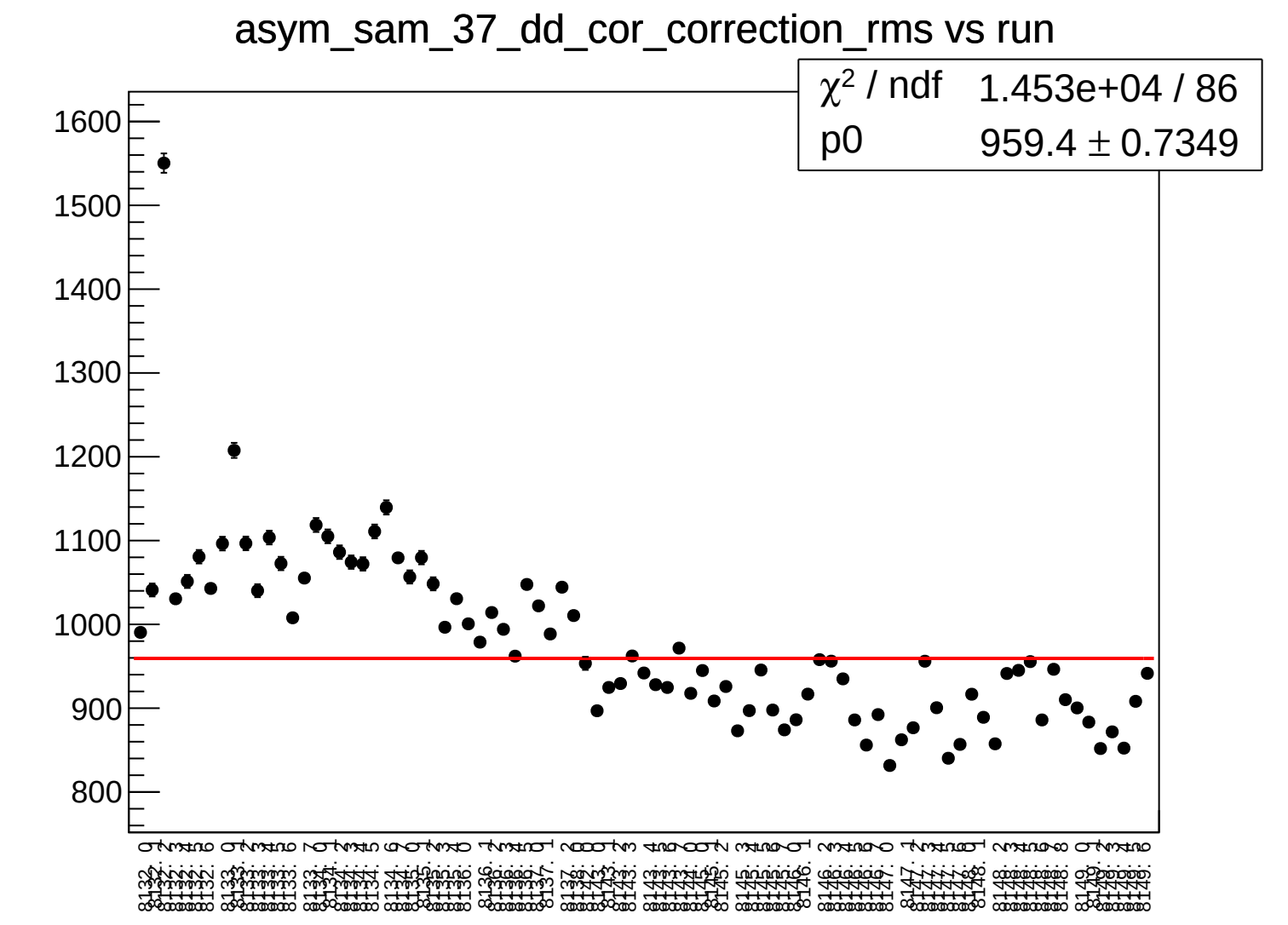

cor_asym_sam_37_dd_mean vs run
χ² / ndf 83.16 / 86
p0 −42.4 ± 108.6
4000
2000
0
−2000
−4000
−6000
pull
Entries 87
Mean −20.99
Std Dev 19.78
2
1
0
−1
−2

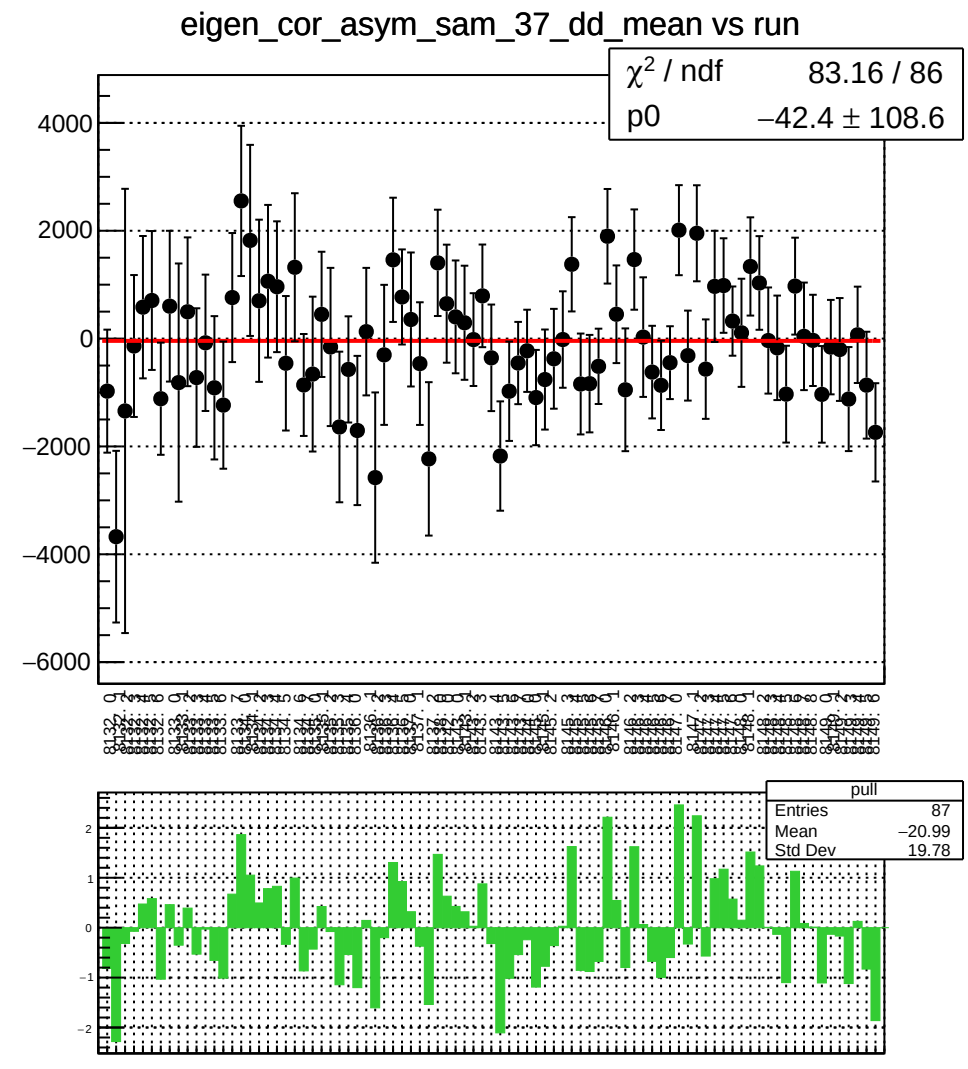

pull1D
Entries 87
Mean −0.01745
Std Dev 0.9775
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

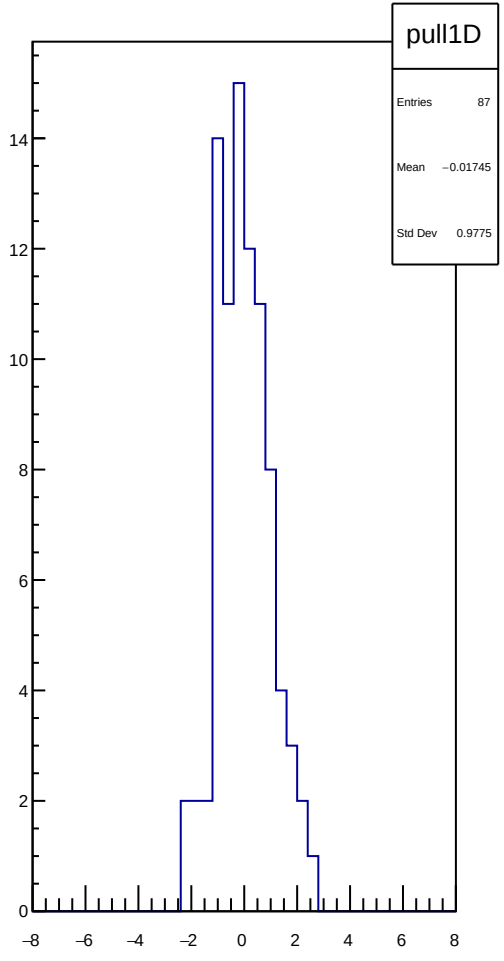

cor_asym_sam_37_dd_rms vs run
χ^2 / ndf 7.065e+04 / 86
p0 98.59 ± 0.07679
400
350
300
250
200
150
100
50

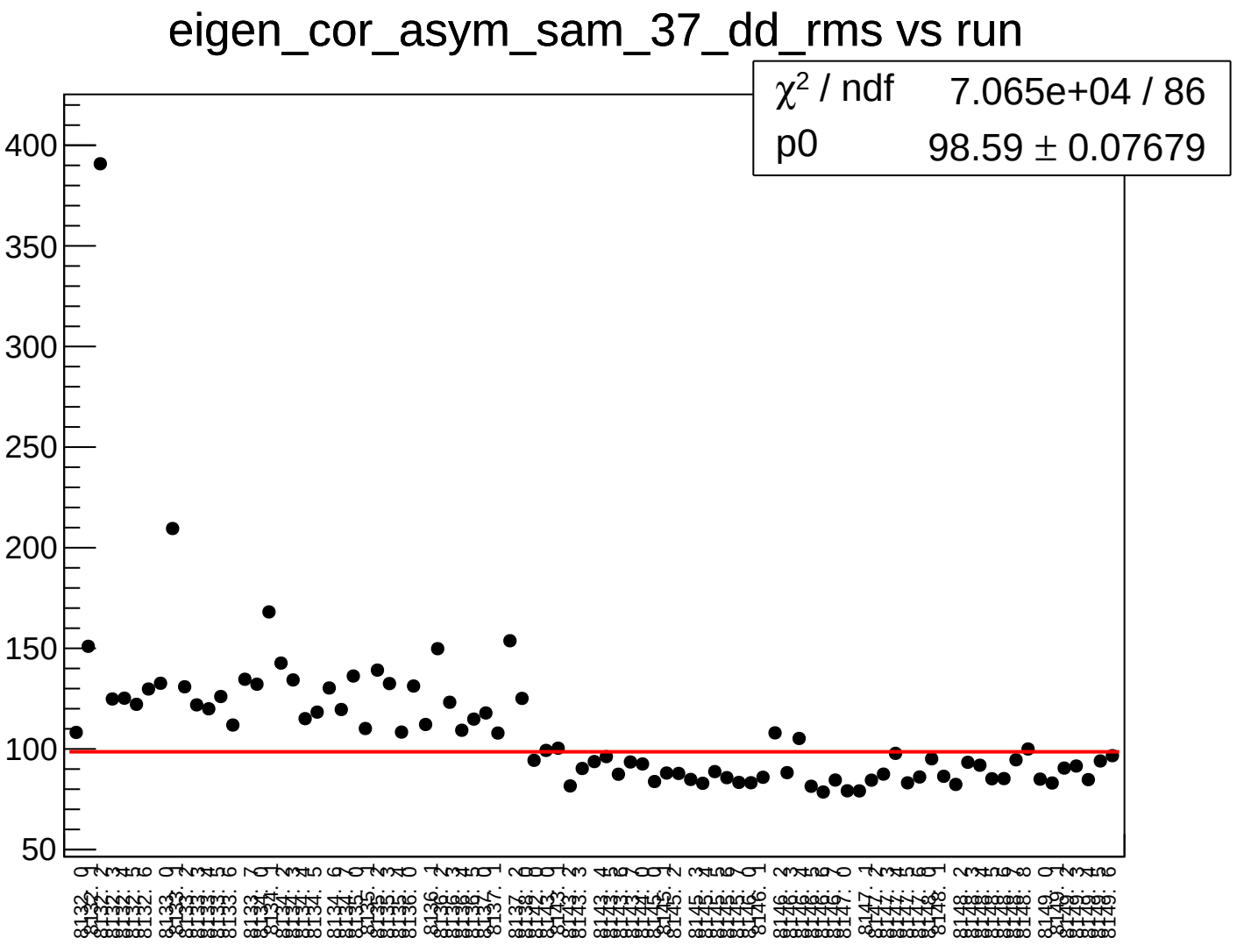

asym_sam_37_dd_cor_correction_mean vs run
χ² / ndf 88.33 / 86
p0 −1115 ± 1039
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 87
Mean −306.2
Std Dev 0
2
1
0
−1
−2

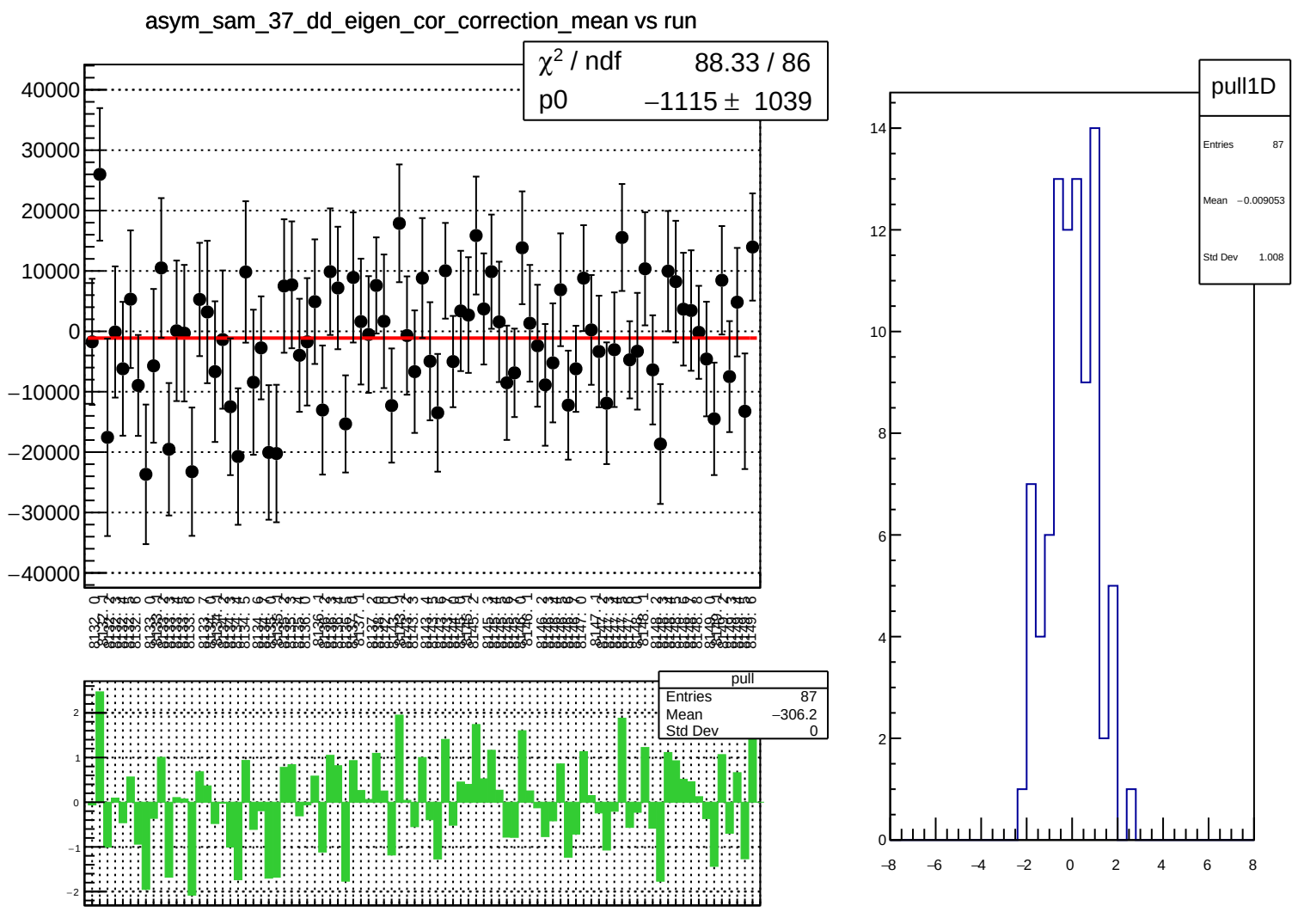

pull1D
Entries 87
Mean −0.009053
Std Dev 1.008
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

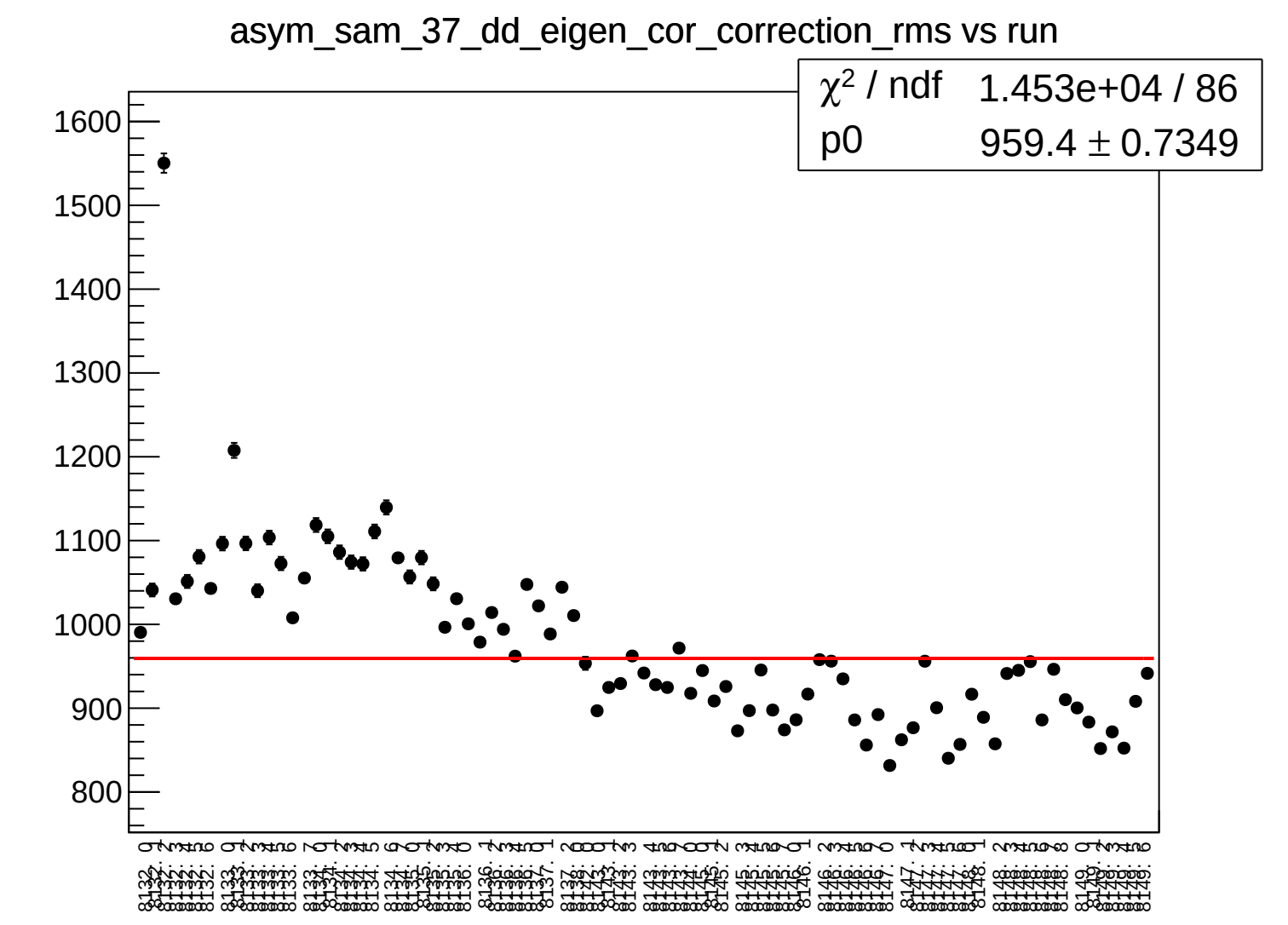

asym_sam_37_dd_cor_correction_rms vs run
χ² / ndf 1.453e+04 / 86
p0 959.4 ± 0.7349
1600
1500
1400
1300
1200
1100
1000
900
800

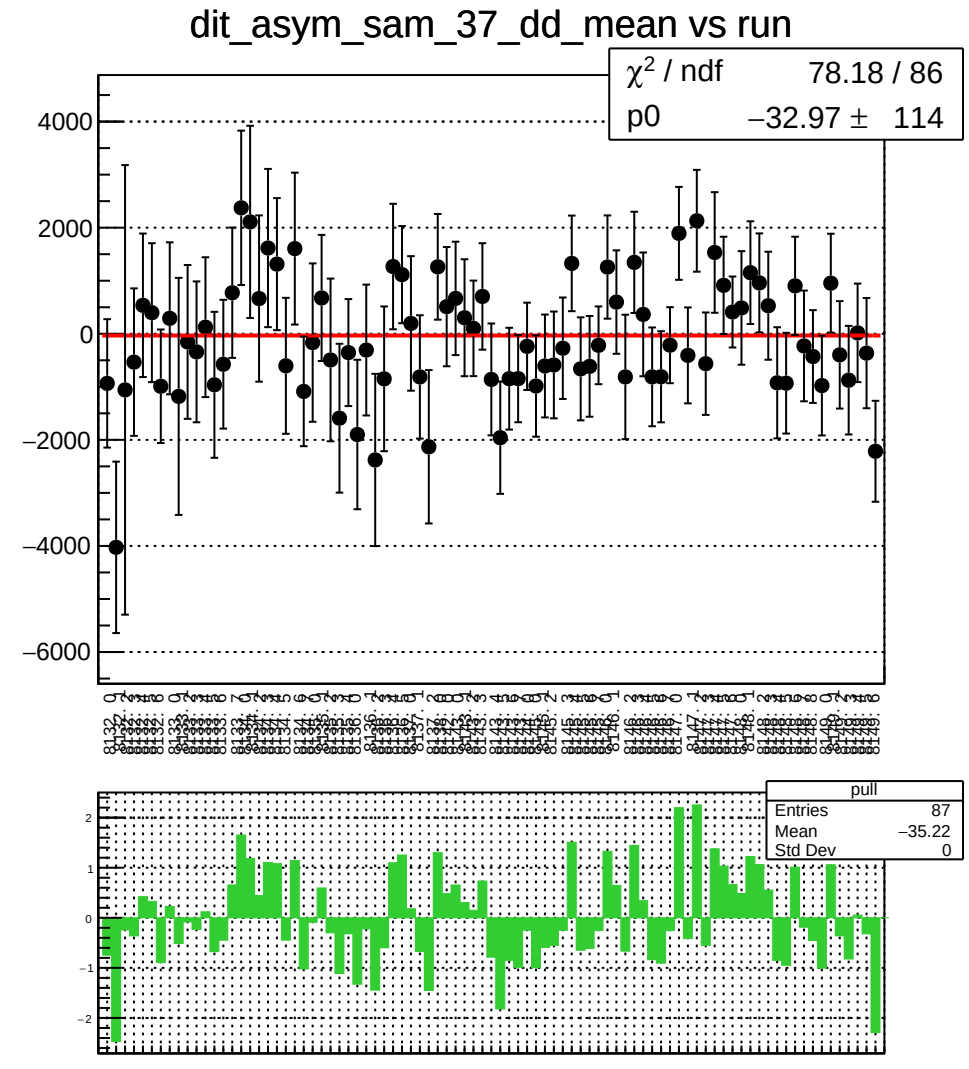

eigen_cor_asym_sam_37_dd_mean vs run
χ² / ndf 83.16 / 86
p0 −42.4 ± 108.6
4000
2000
0
−2000
−4000
−6000
pull
Entries 87
Mean −20.99
Std Dev 19.78
2
1
0
−1
−2

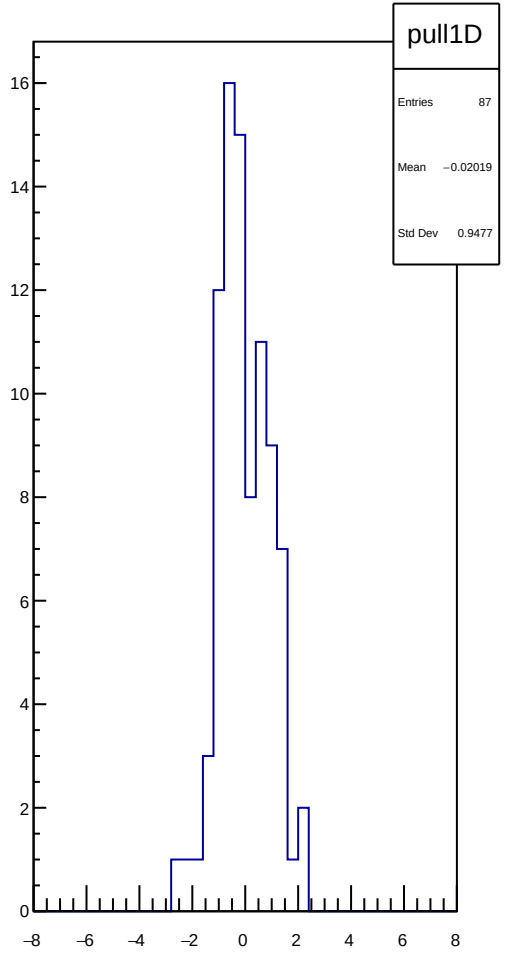

pull1D
Entries 87
Mean −0.01745
Std Dev 0.9775
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

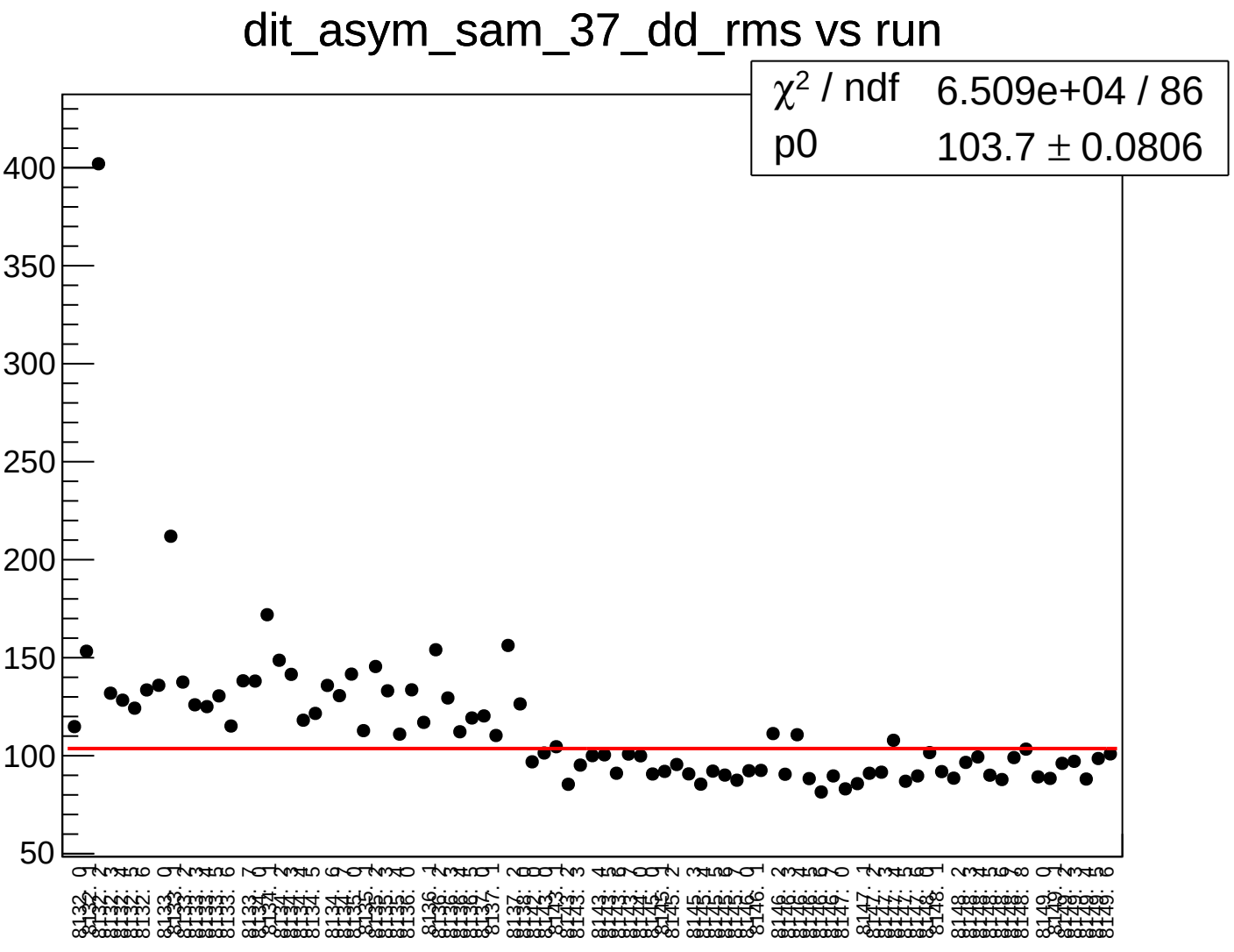

eigen_cor_asym_sam_37_dd_rms vs run
χ² / ndf 7.065e+04 / 86
p0 98.59 ± 0.07679
400
350
300
250
200
150
100
50

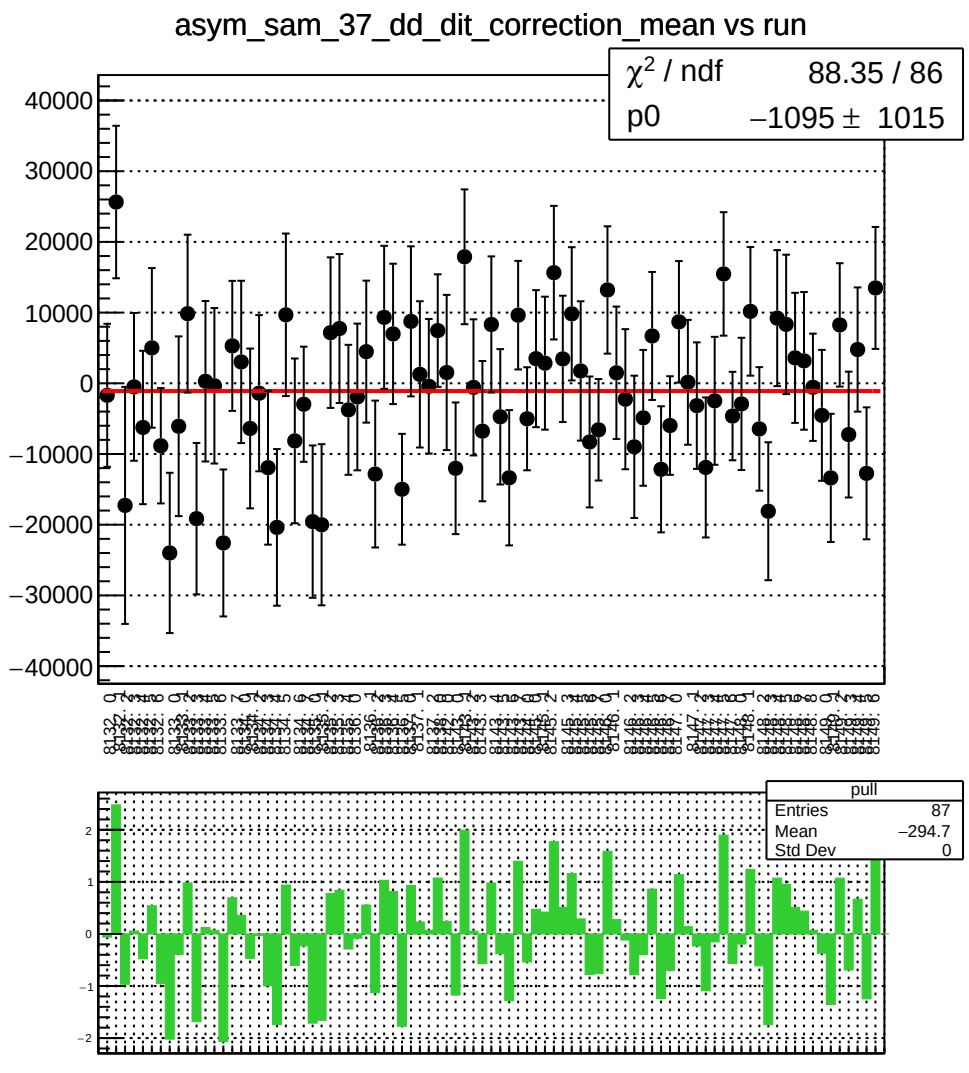

asym_sam_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 88.33 / 86
p0 −1115 ± 1039
pull
Entries 87
Mean −306.2
Std Dev 0
pull1D
Entries 87
Mean −0.009053
Std Dev 1.008

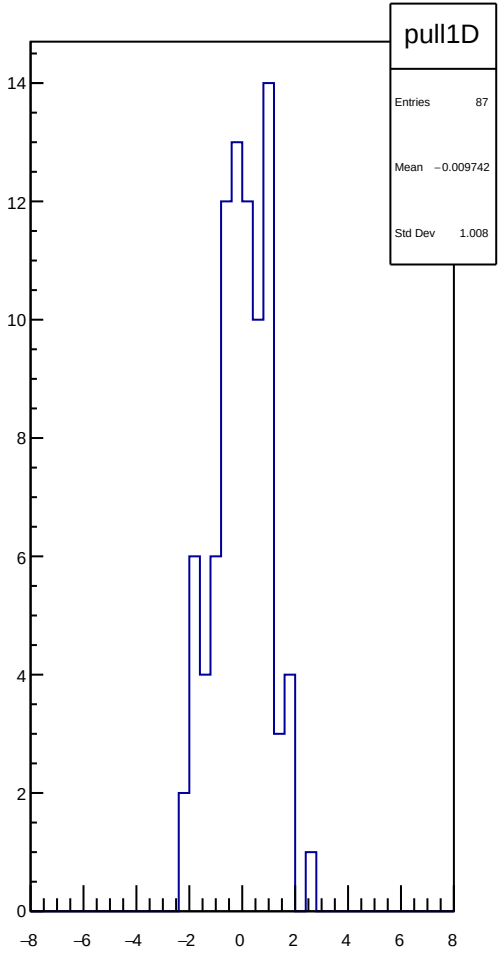

asym_sam_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.453e+04 / 86
p0 959.4 ± 0.7349
1600
1500
1400
1300
1200
1100
1000
900
800

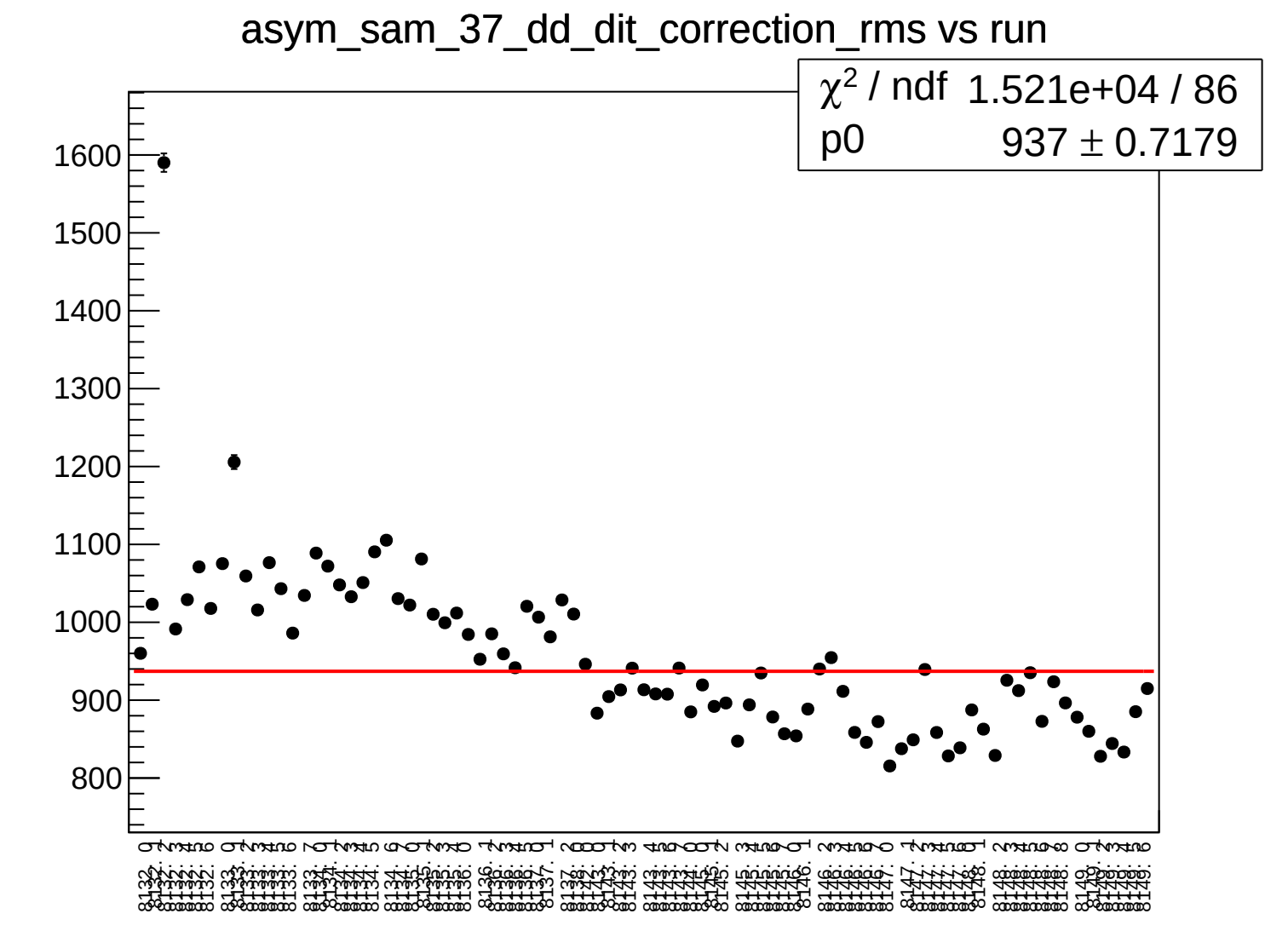

dit_asym_sam_37_dd_mean vs run
χ² / ndf 78.18 / 86
p0 −32.97 ± 114
4000
2000
0
−2000
−4000
−6000
pull
Entries 87
Mean −35.22
Std Dev 0
2
1
0
−1
−2

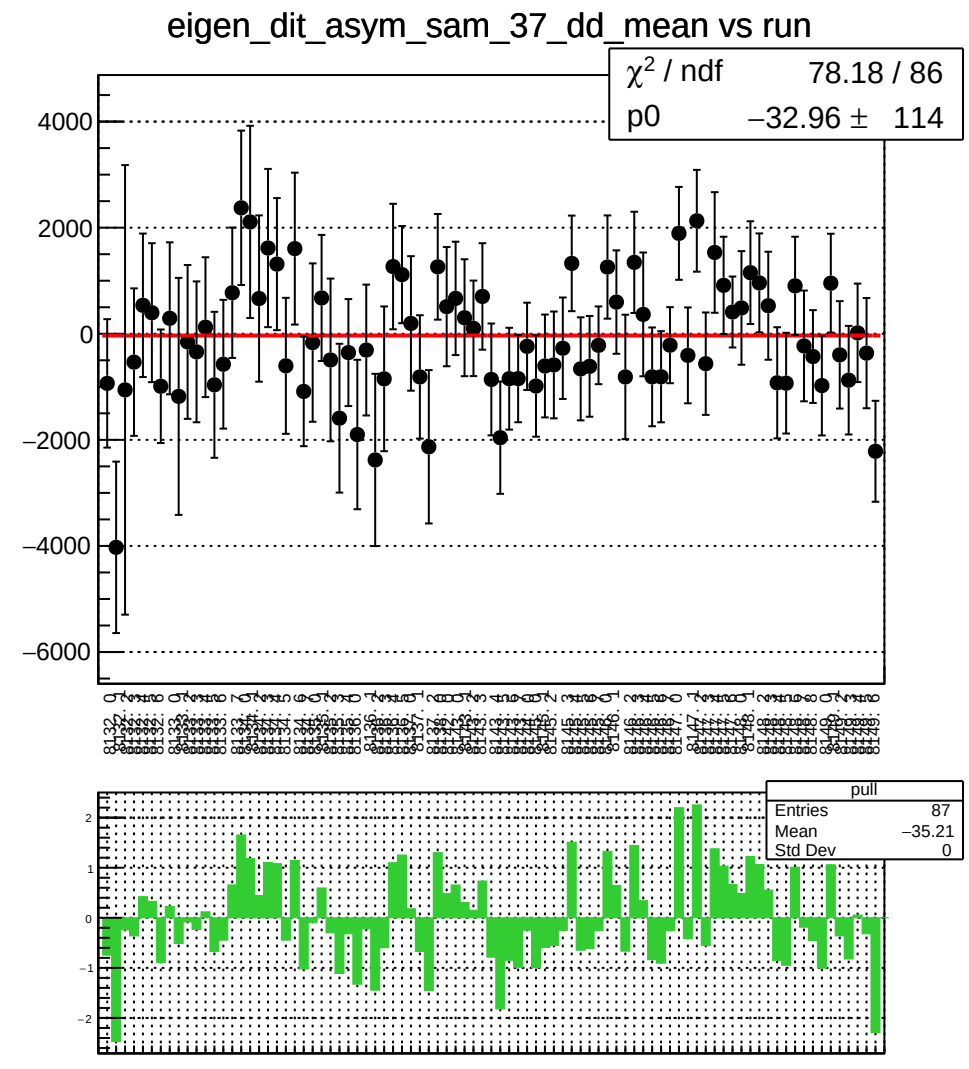

pull1D
Entries 87
Mean −0.02019
Std Dev 0.9477
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

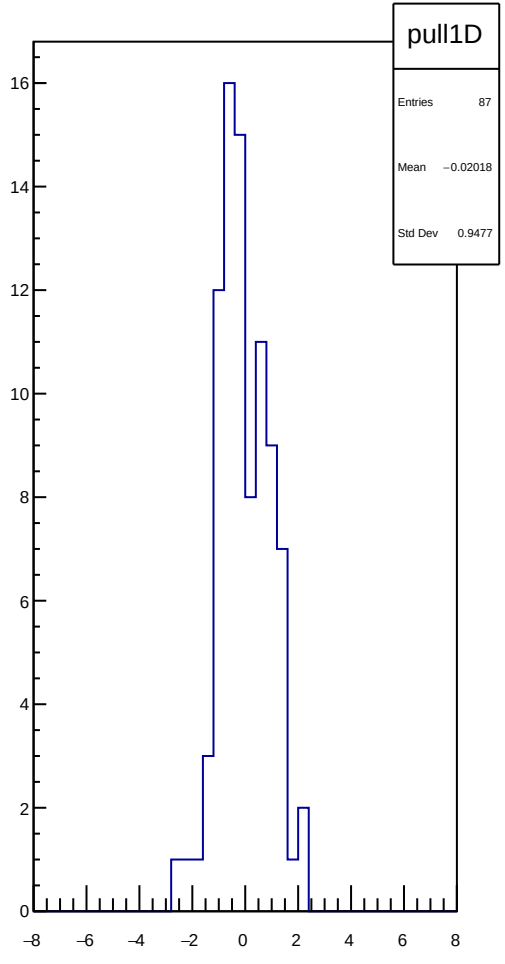

dit_asym_sam_37_dd_rms vs run
χ² / ndf 6.509e+04 / 86
p0 103.7 ± 0.0806
400
350
300
250
200
150
100
50

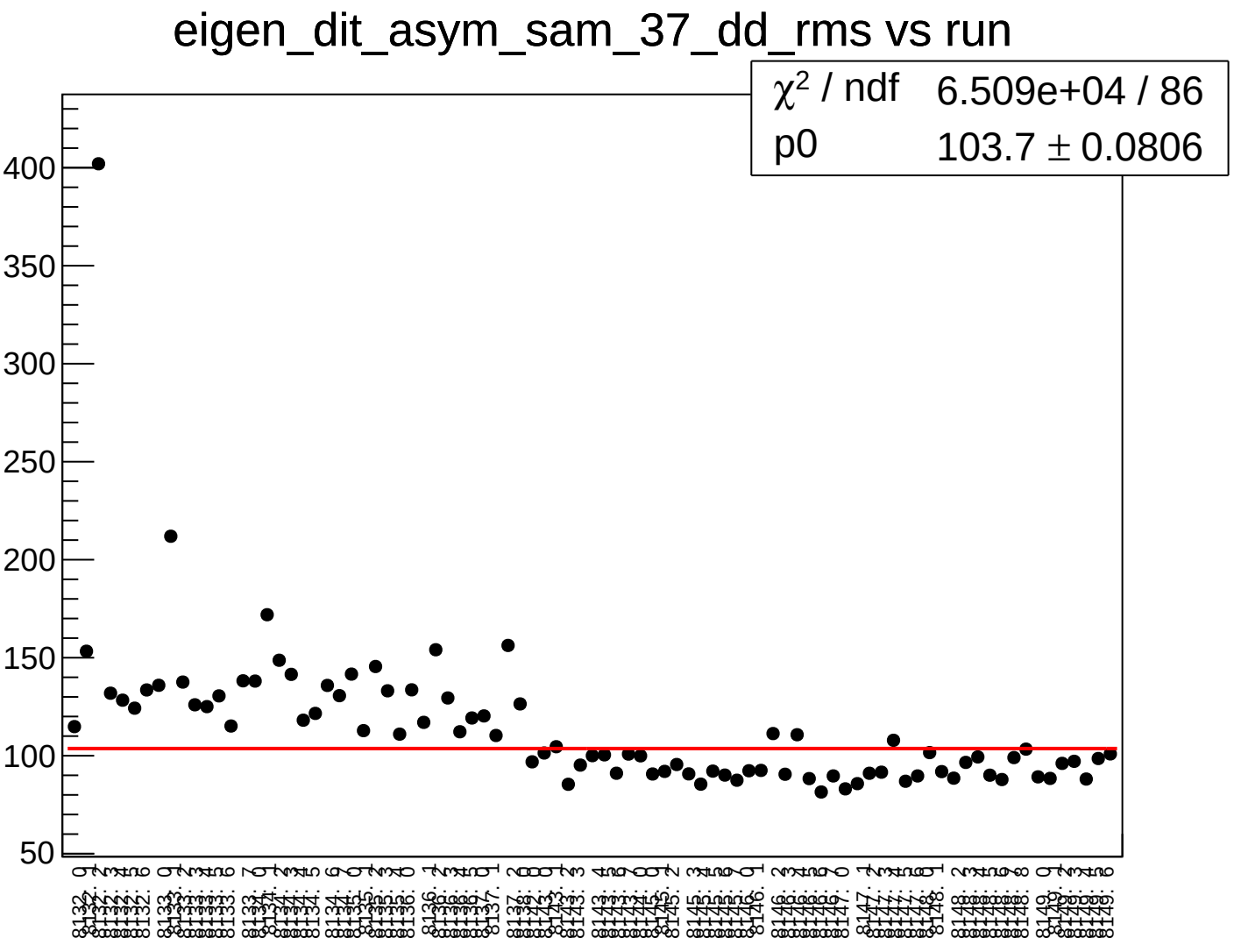

asym_sam_37_dd_dit_correction_mean vs run
χ² / ndf 88.35 / 86
p0 −1095 ± 1015
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 87
Mean −294.7
Std Dev 0
2
1
0
−1
−2

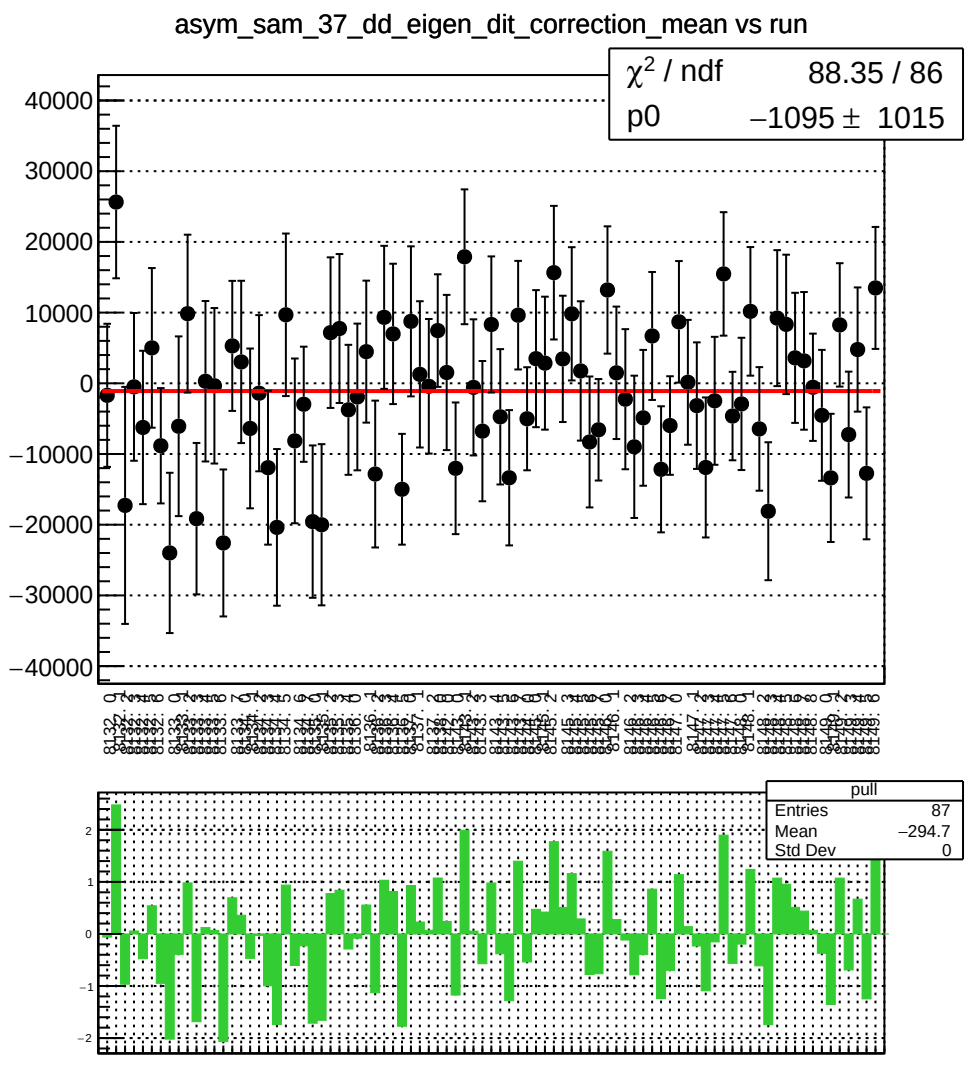

pull1D
Entries 87
Mean −0.009742
Std Dev 1.008
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

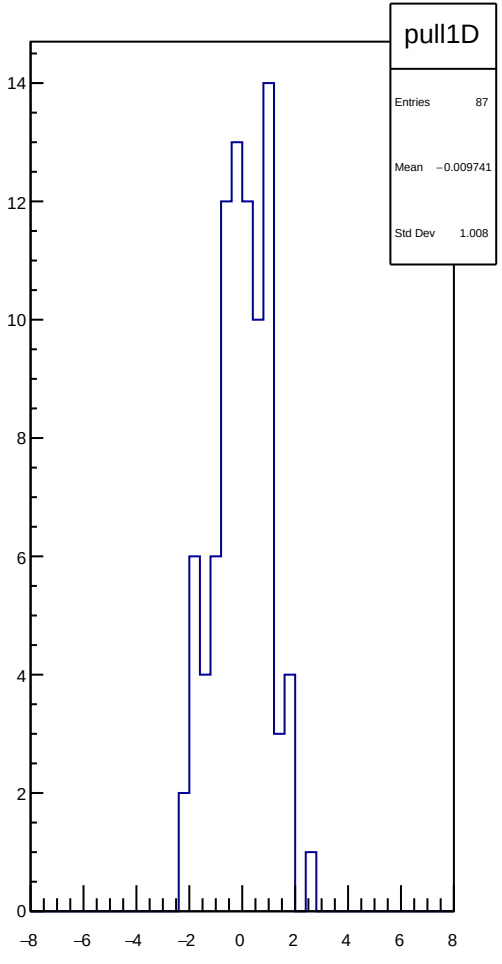

asym_sam_37_dd_dit_correction_rms vs run
χ² / ndf 1.521e+04 / 86
p0 937 ± 0.7179
1600
1500
1400
1300
1200
1100
1000
900
800

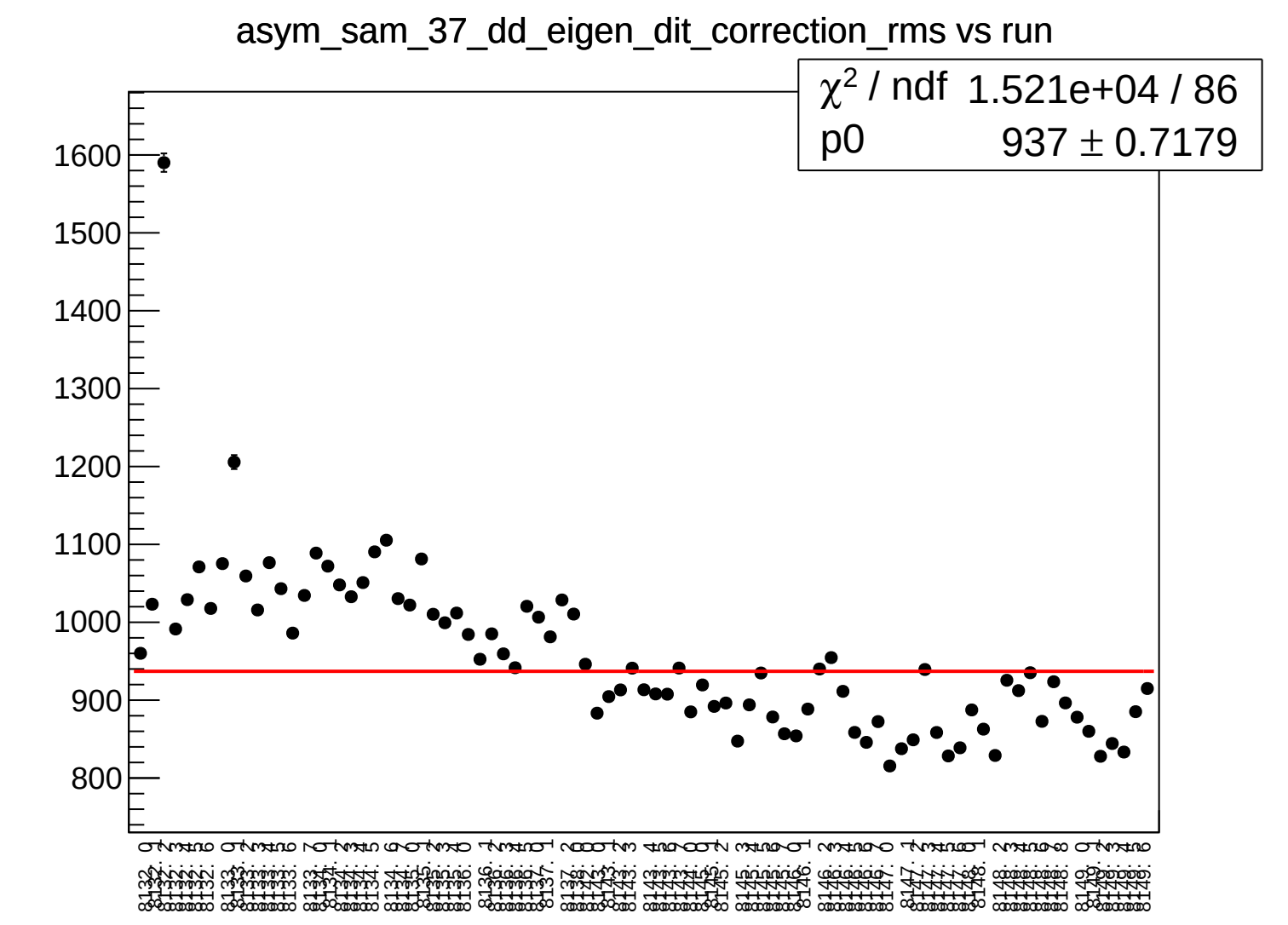

eigen_dit_asym_sam_37_dd_mean vs run
χ² / ndf 78.18 / 86
p0 −32.96 ± 114
4000
2000
0
−2000
−4000
−6000
pull
Entries 87
Mean −35.21
Std Dev 0
2
1
0
−1
−2

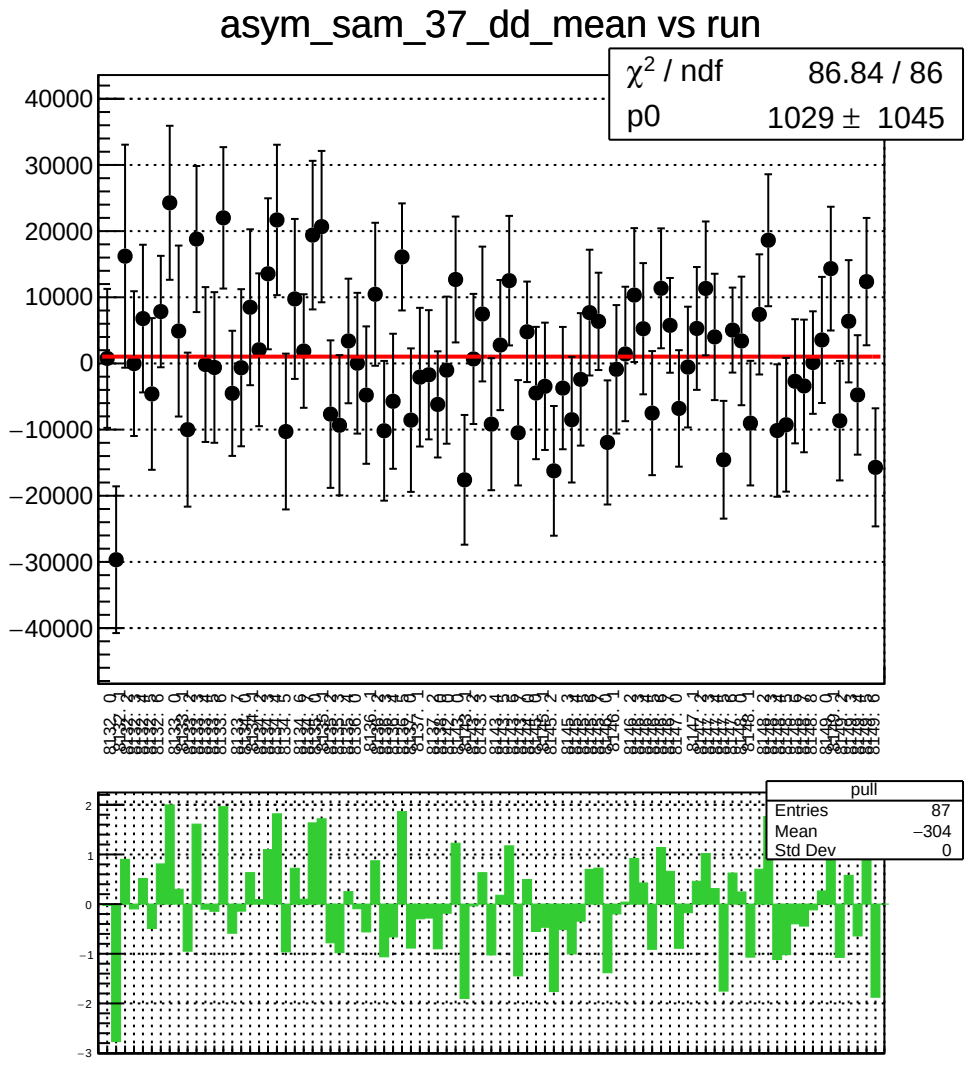

pull1D
Entries 87
Mean −0.02018
Std Dev 0.9477
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

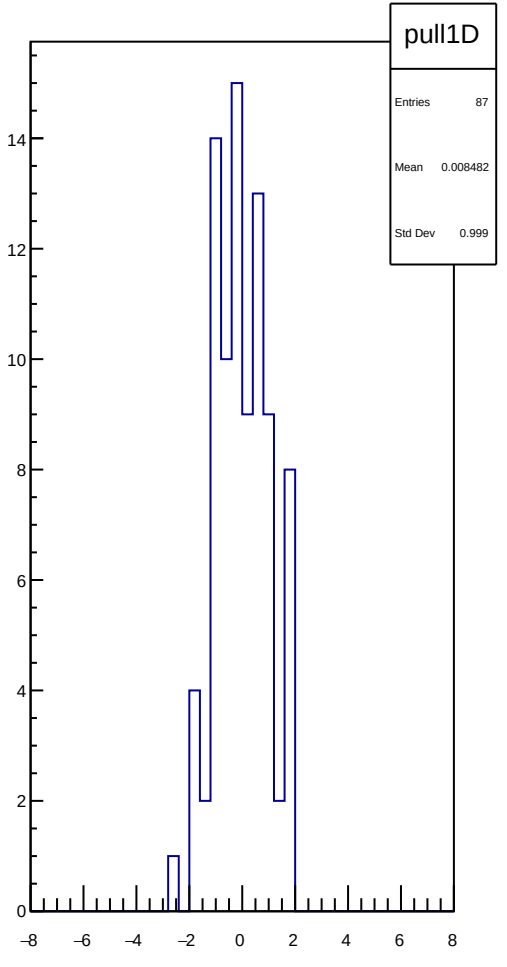

eigen_dit_asym_sam_37_dd_rms vs run
χ² / ndf 6.509e+04 / 86
p0 103.7 ± 0.0806
400
350
300
250
200
150
100
50

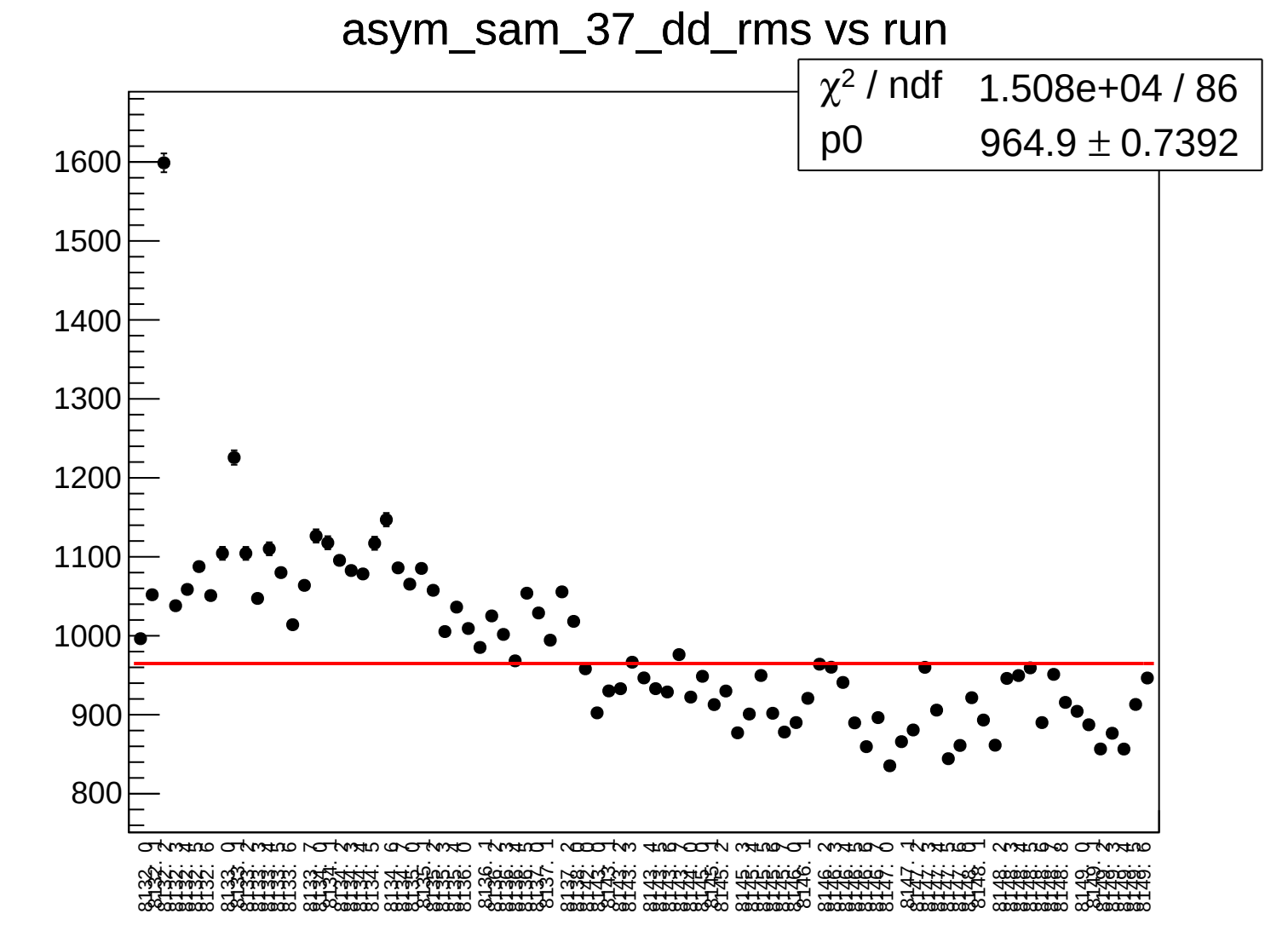

asym_sam_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 88.35 / 86
p0 −1095 ± 1015
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 87
Mean −294.7
Std Dev 0
2
1
0
−1
−2

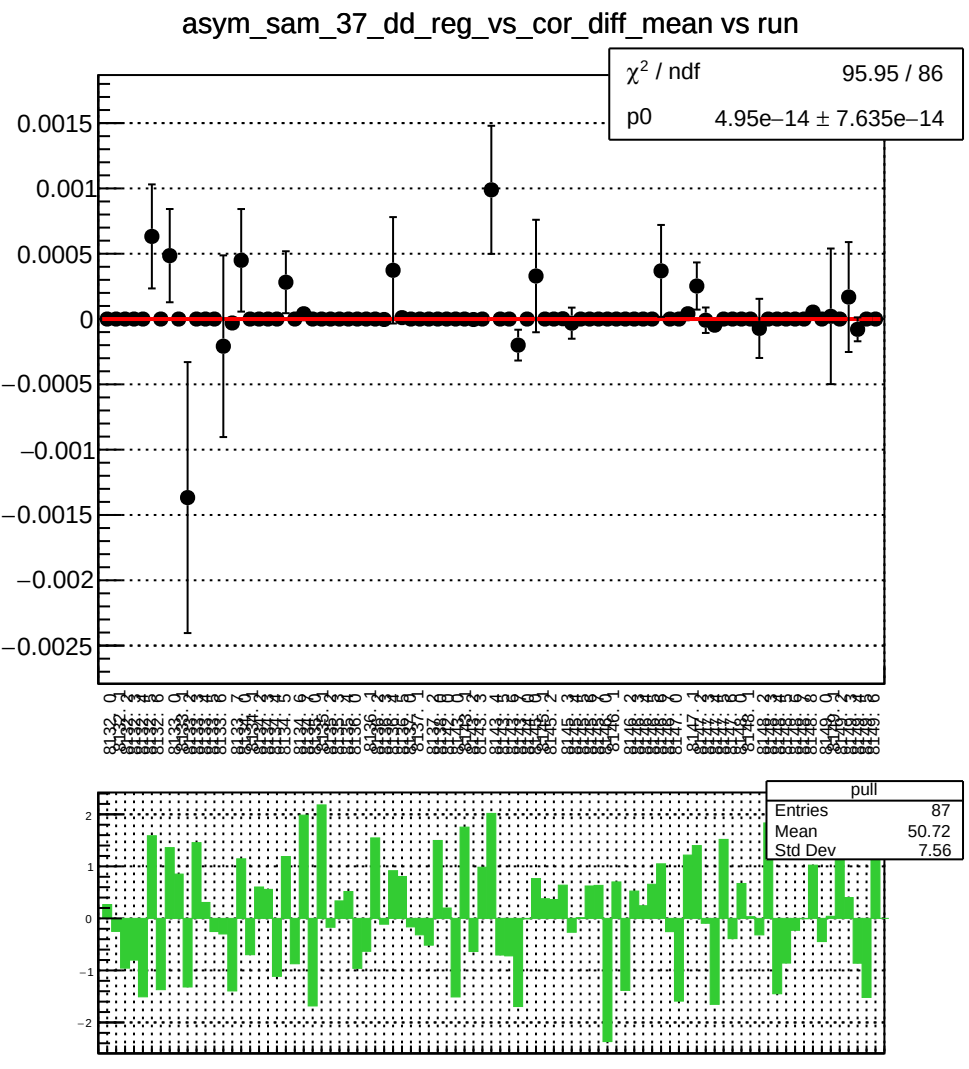

pull1D
Entries 87
Mean −0.009741
Std Dev 1.008
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

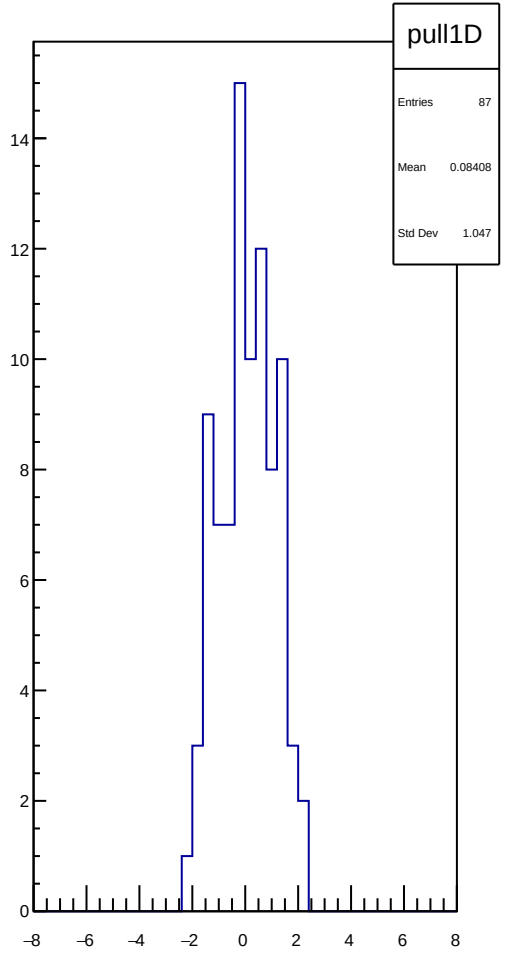

asym_sam_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.521e+04 / 86
p0 937 ± 0.7179
1600
1500
1400
1300
1200
1100
1000
900
800

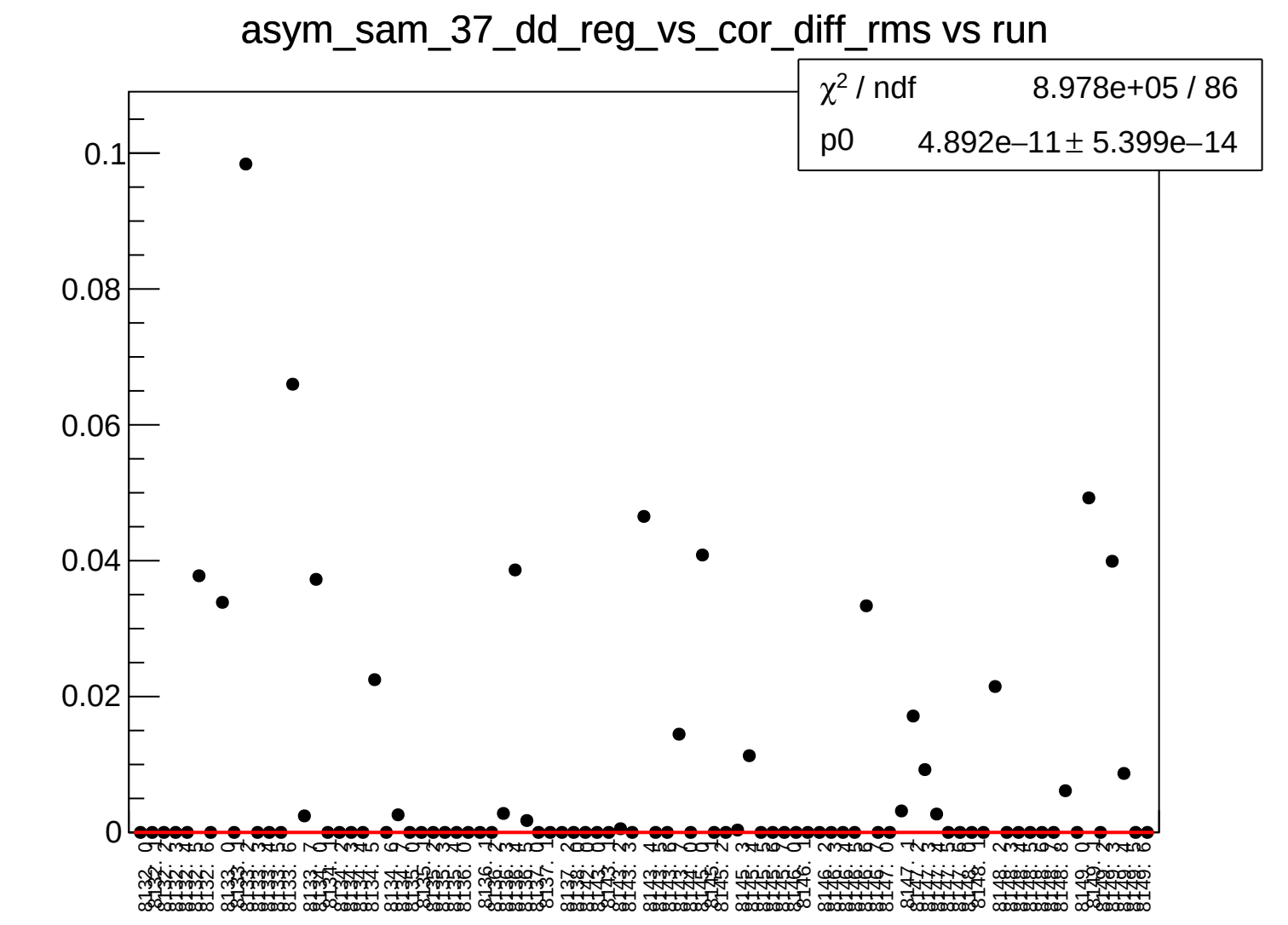

asym_sam_37_dd_mean vs run
χ² / ndf 86.84 / 86
p0 1029 ± 1045
pull
Entries 87
Mean −304
Std Dev 0

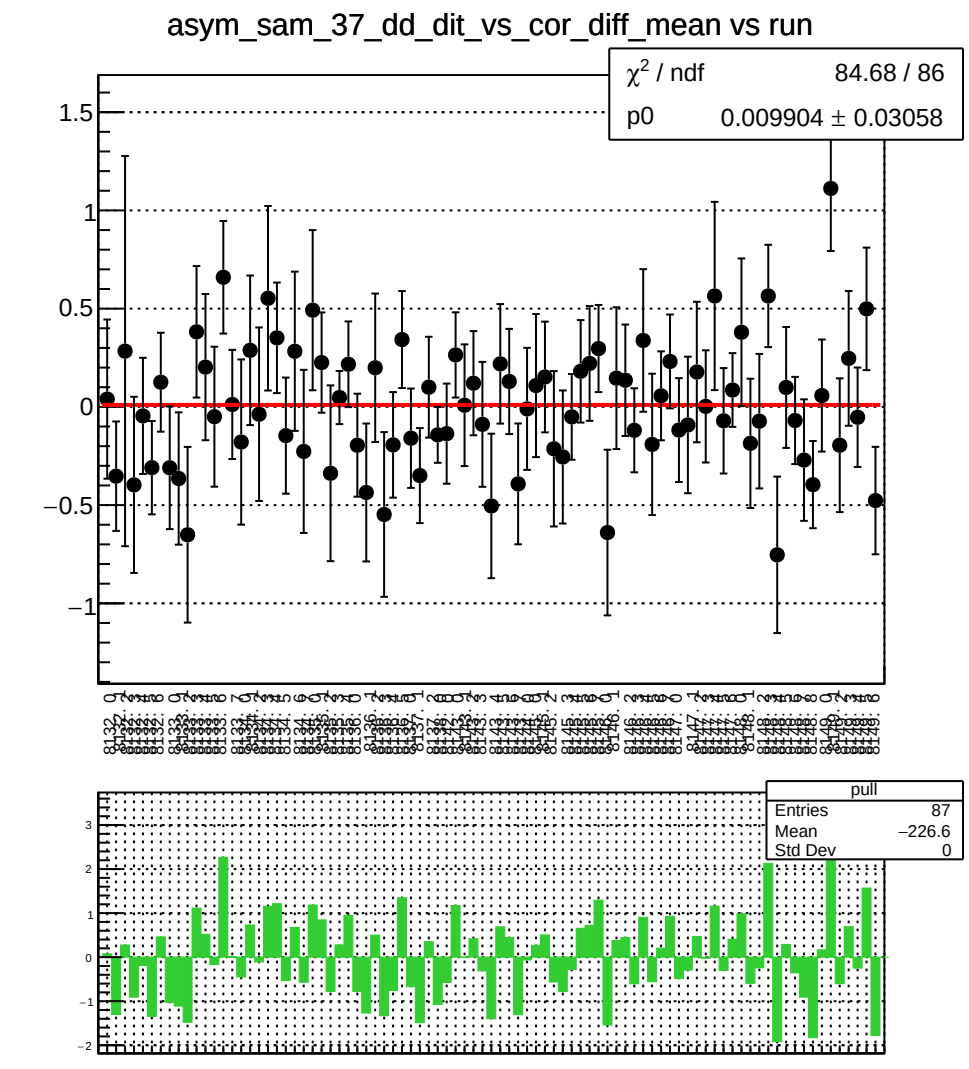

pull1D
Entries 87
Mean 0.008482
Std Dev 0.999

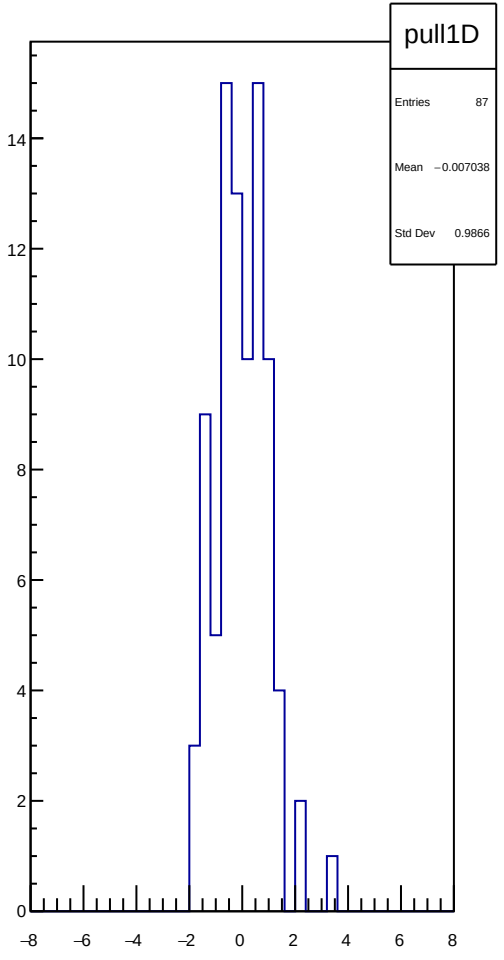

asym_sam_37_dd_rms vs run
χ² / ndf 1.508e+04 / 86
p0 964.9 ± 0.7392
1600
1500
1400
1300
1200
1100
1000
900
800

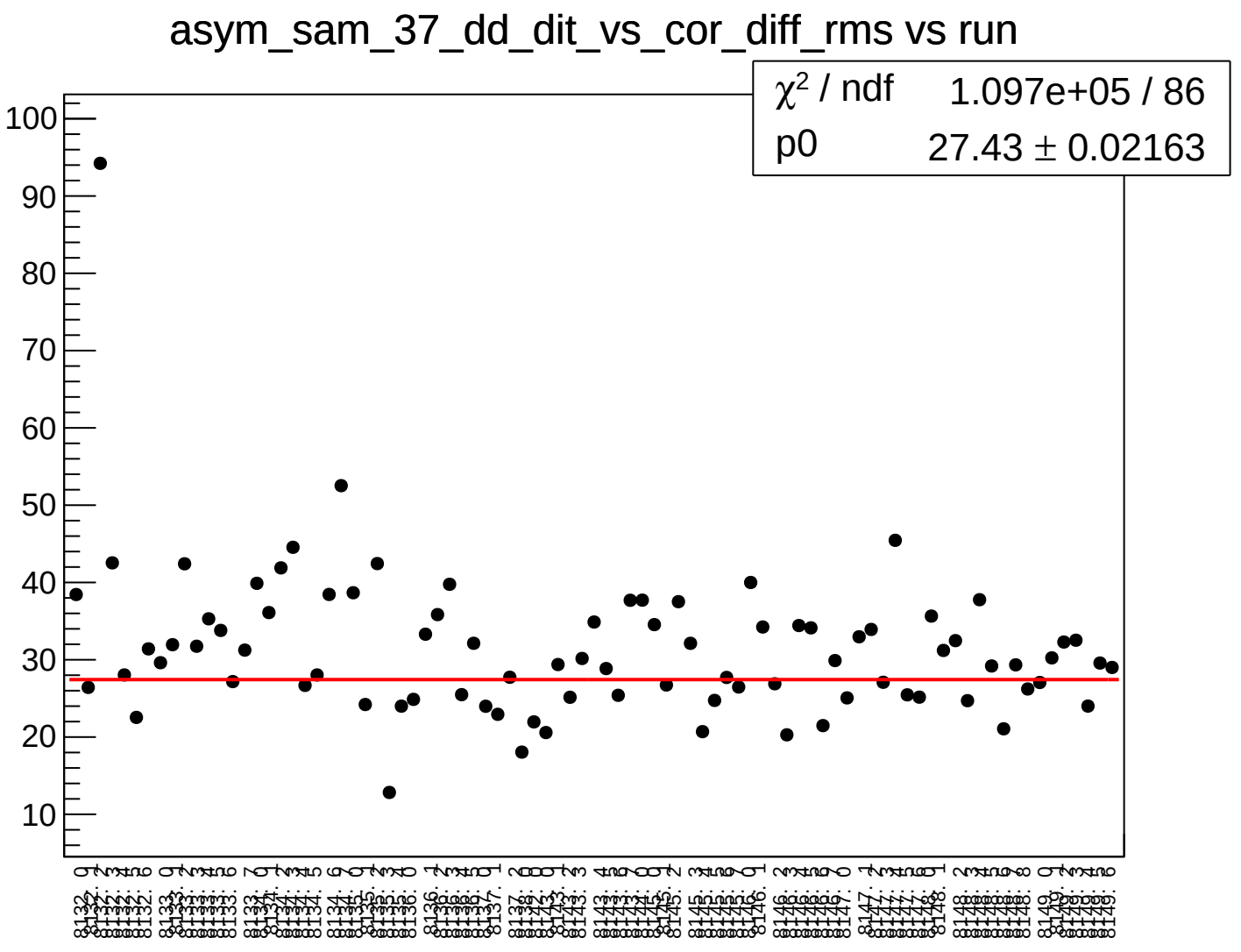

asym_sam_37_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 95.95 / 86
p0 4.95e−14 ± 7.635e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
−0.0025
pull
Entries 87
Mean 50.72
Std Dev 7.56
2
1
0
−1
−2

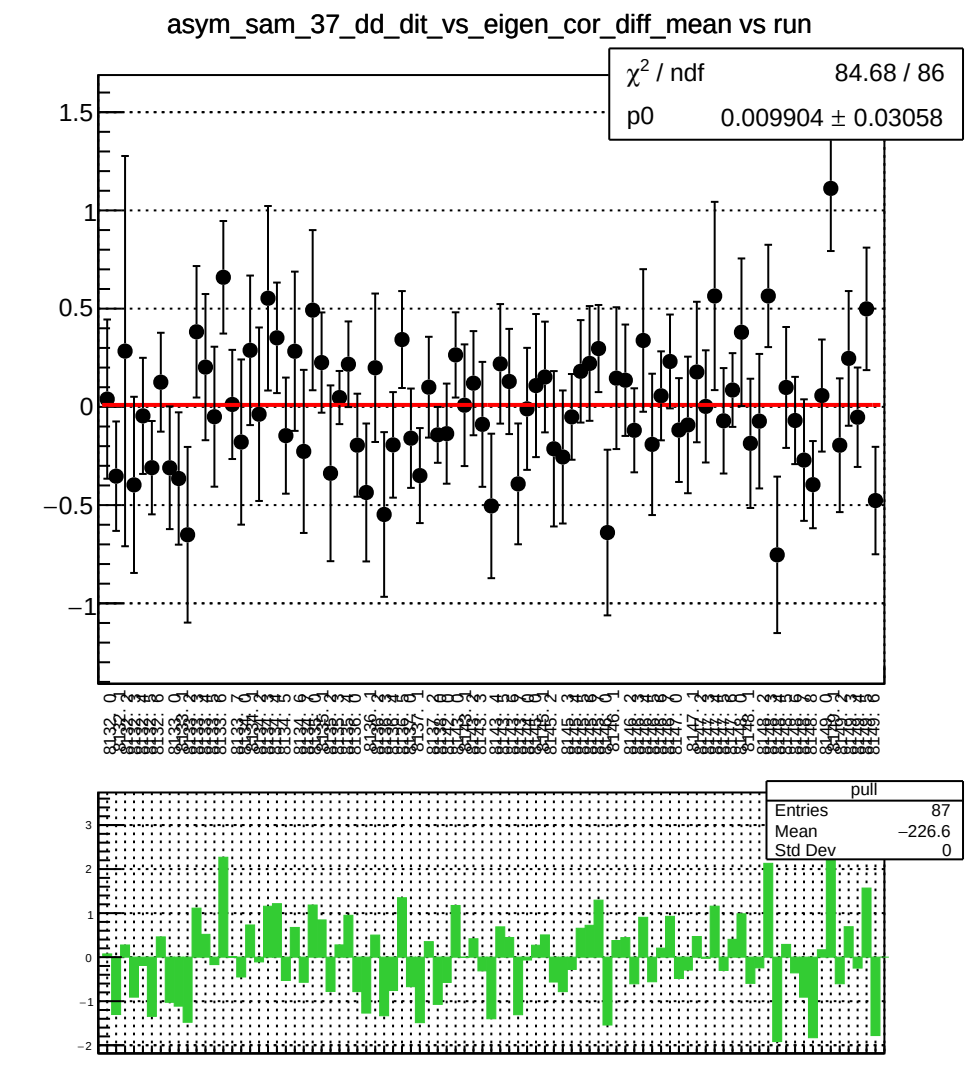

pull1D
Entries 87
Mean 0.08408
Std Dev 1.047
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

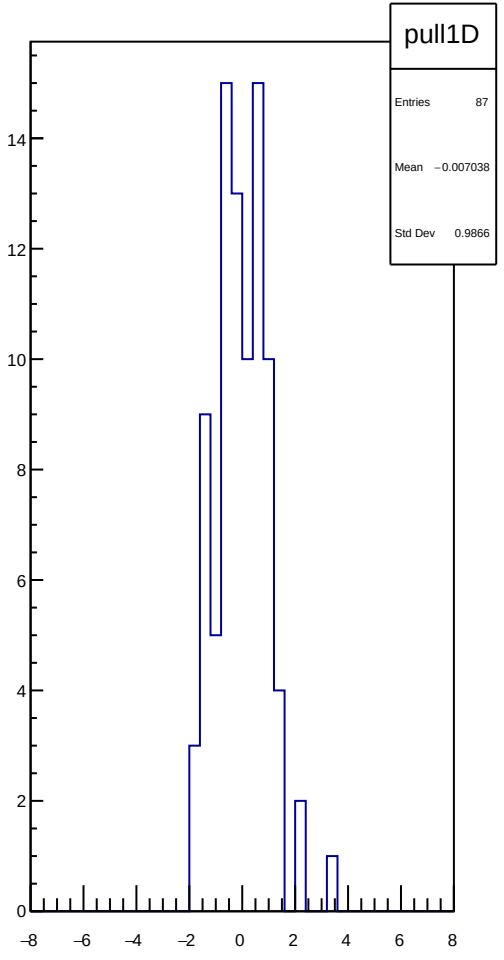

asym_sam_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.978e+05 / 86
p0 4.892e−11 ± 5.399e−14
0.1
0.08
0.06
0.04
0.02
0

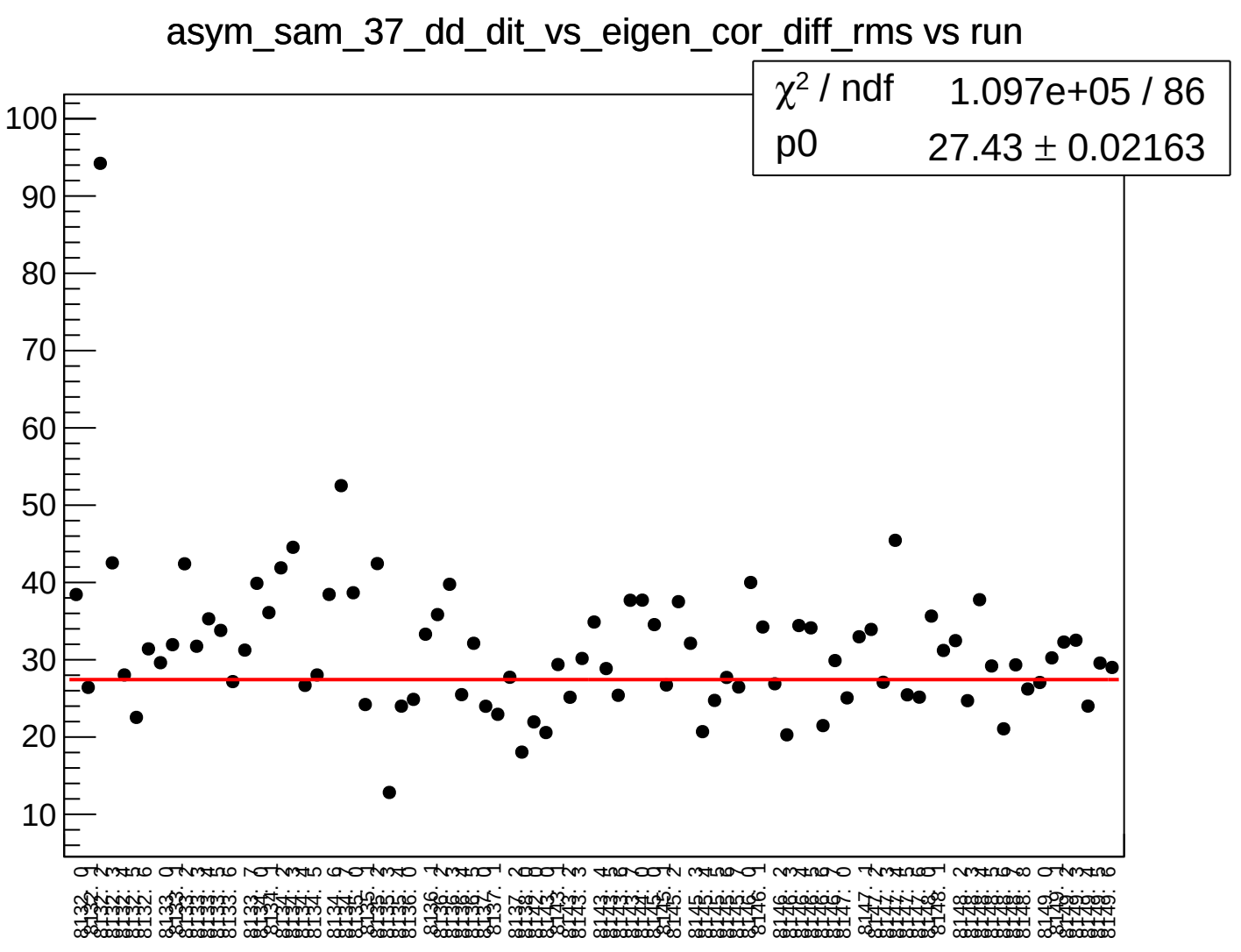

asym_sam_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 84.68 / 86
p0 0.009904 ± 0.03058
pull
Entries 87
Mean −226.6
Std Dev 0

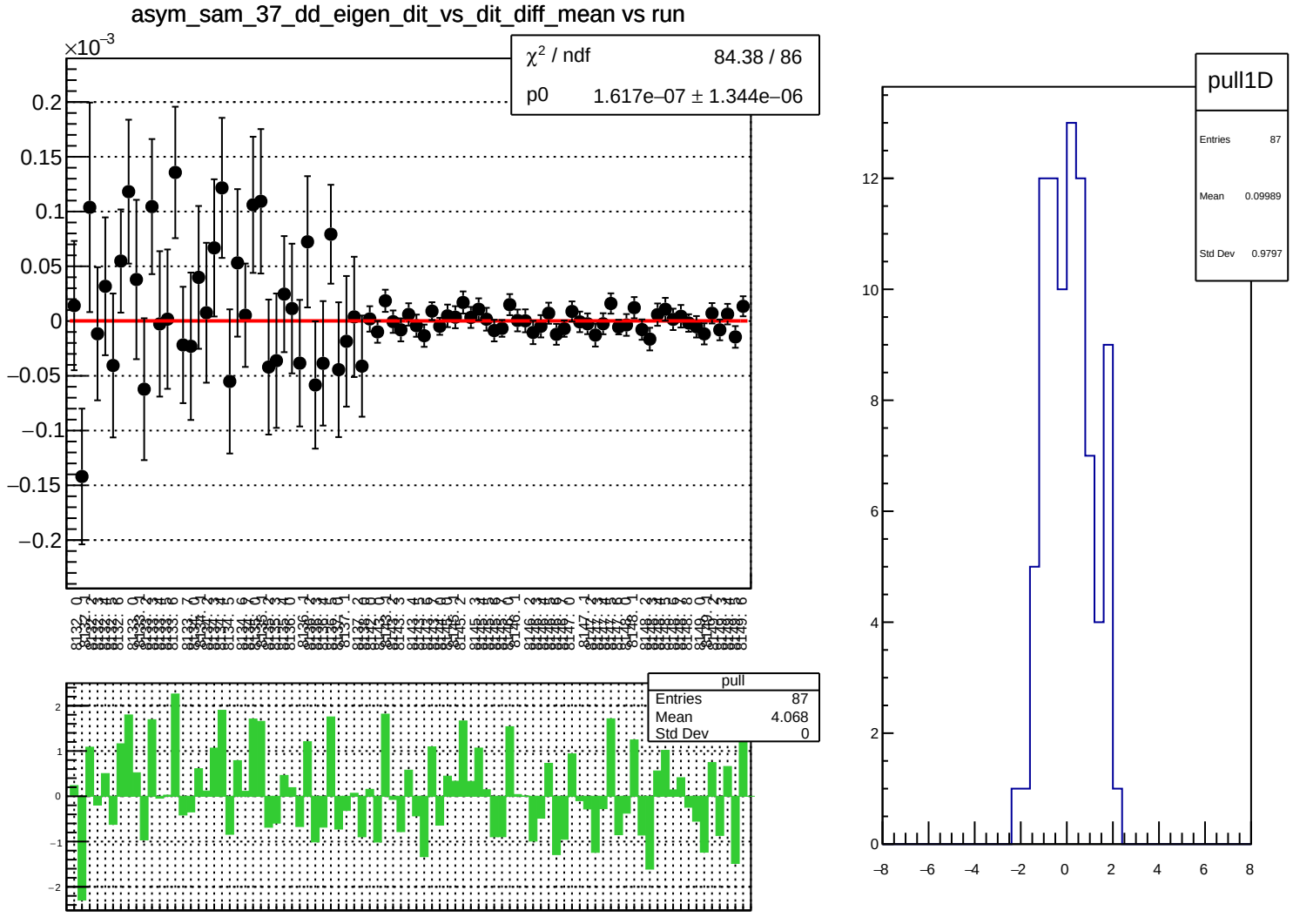

pull1D
Entries 87
Mean −0.007038
Std Dev 0.9866

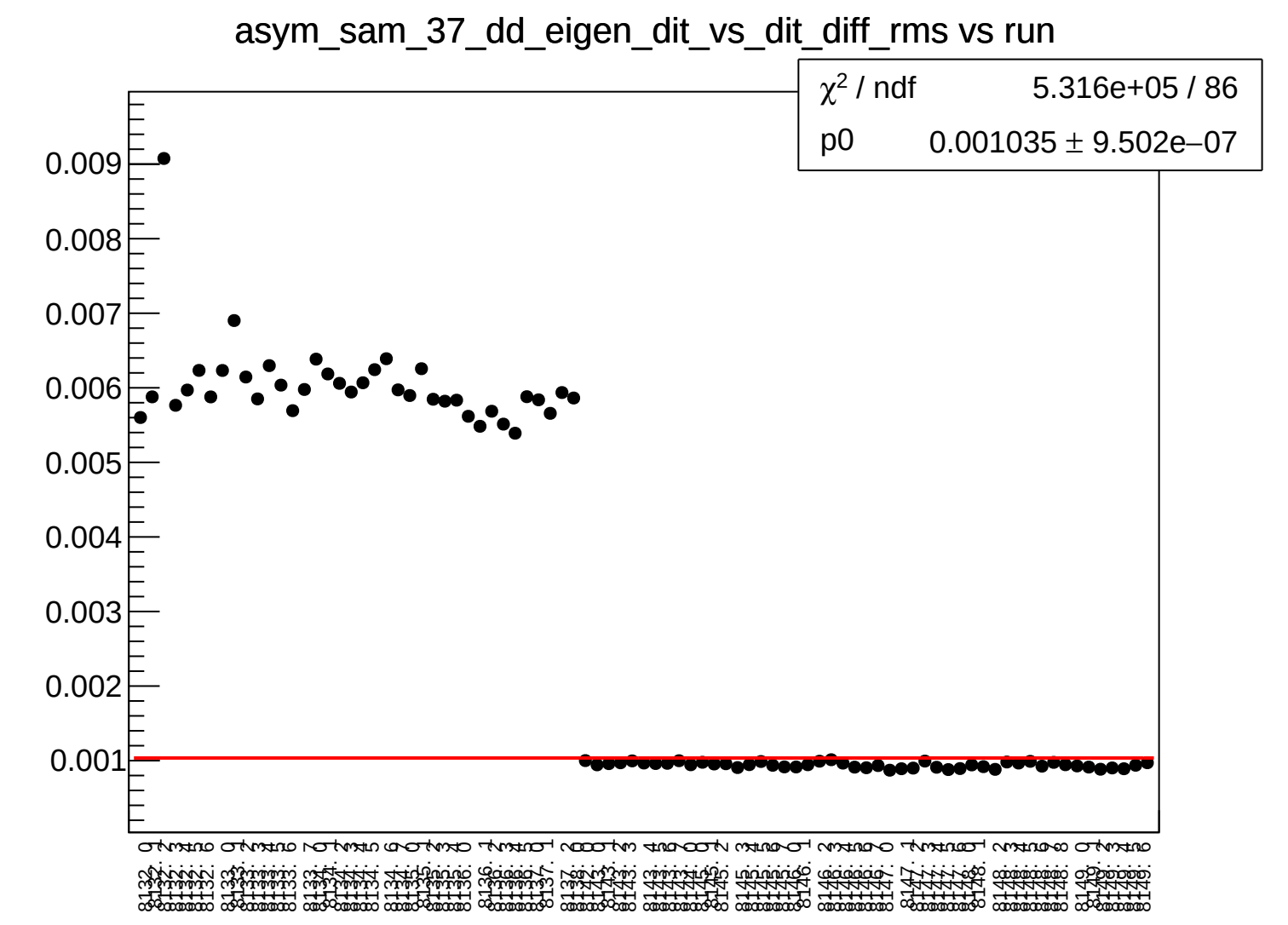

asym_sam_37_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.097e+05 / 86
p0 27.43 ± 0.02163
100
90
80
70
60
50
40
30
20
10

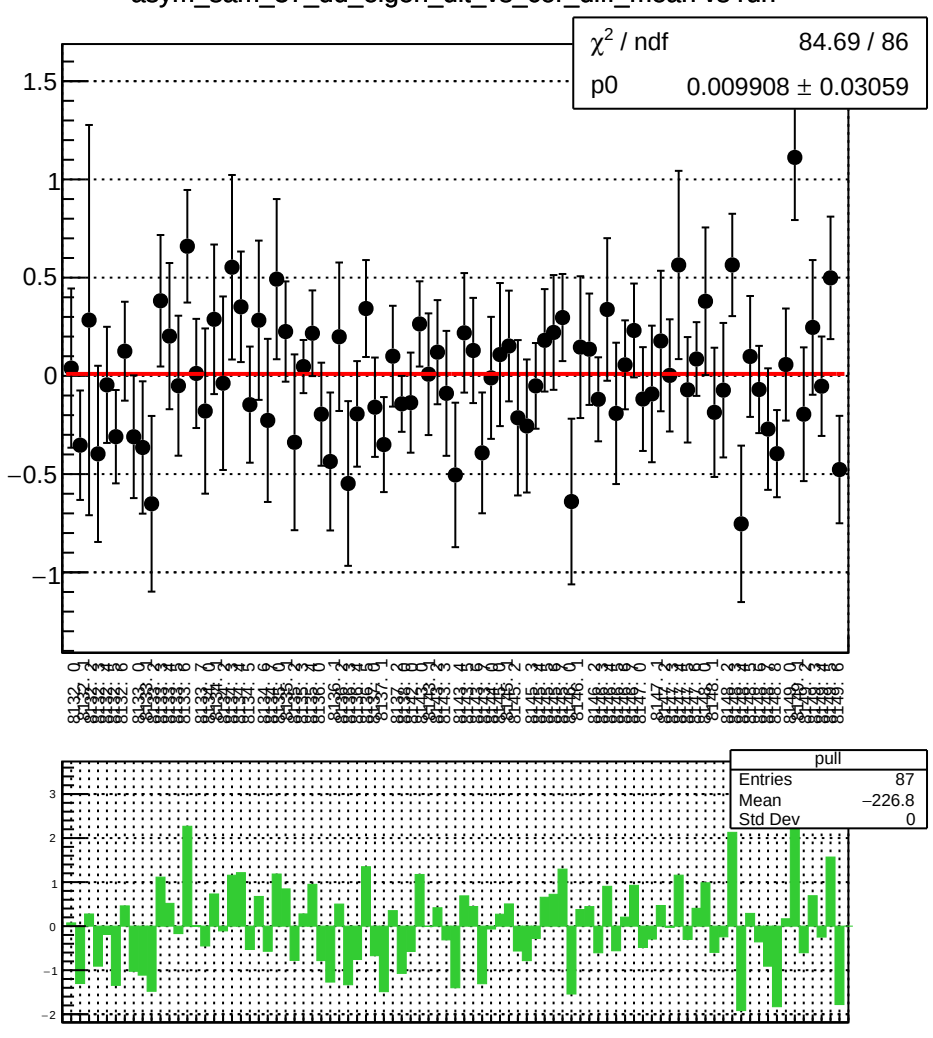

asym_sam_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.68 / 86
p0 0.009904 ± 0.03058
pull
Entries 87
Mean −226.6
Std Dev 0

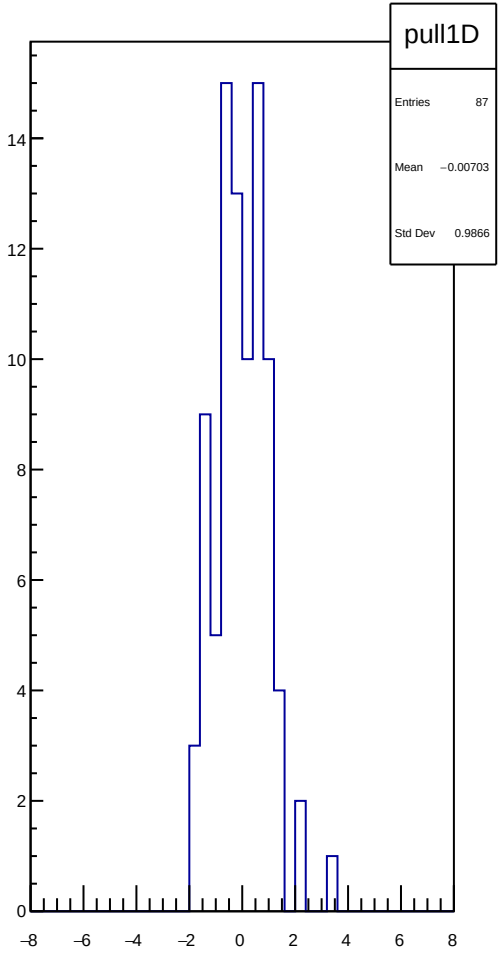

pull1D
Entries 87
Mean −0.007038
Std Dev 0.9866

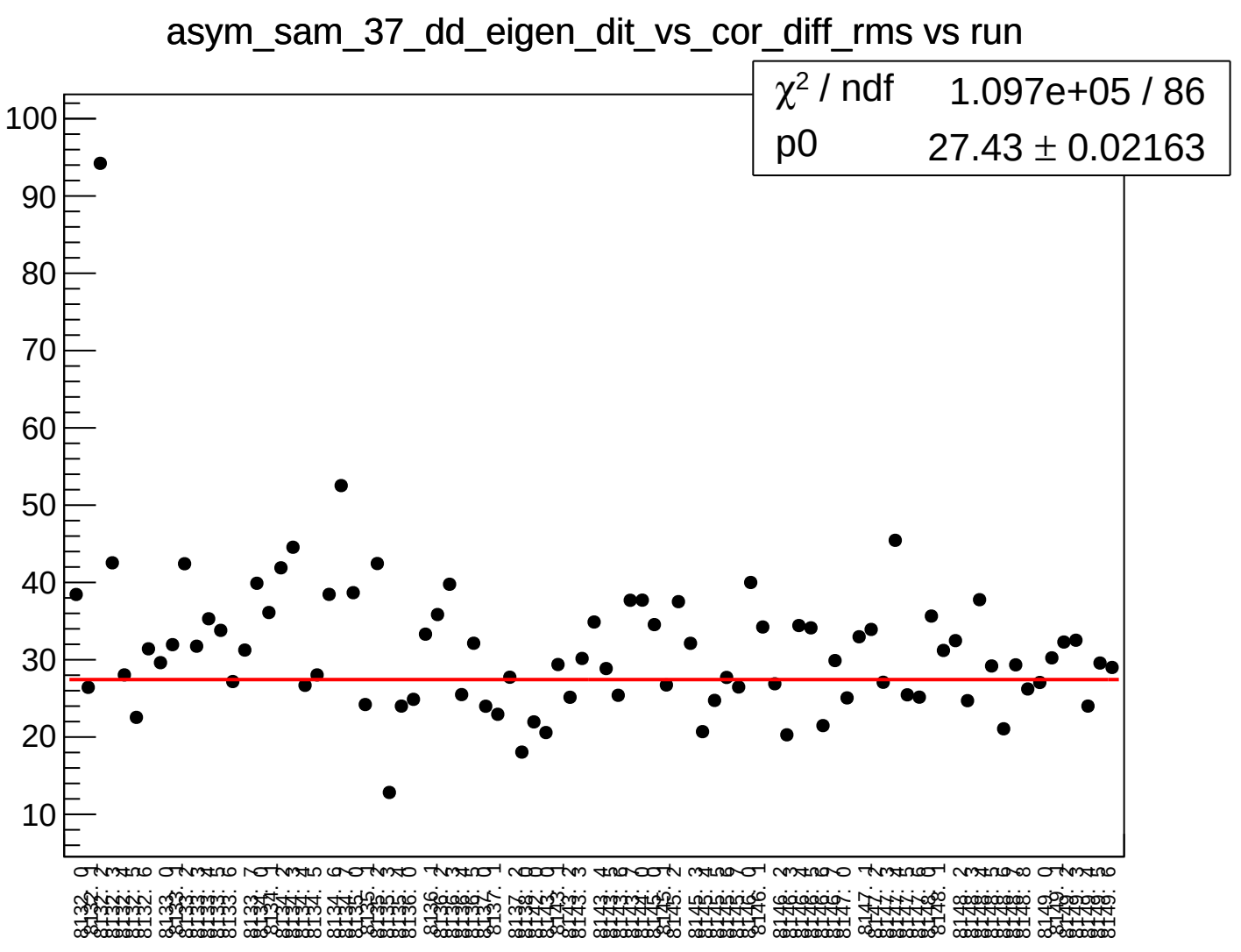

asym_sam_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.097e+05 / 86
p0 27.43 ± 0.02163
100
90
80
70
60
50
40
30
20
10

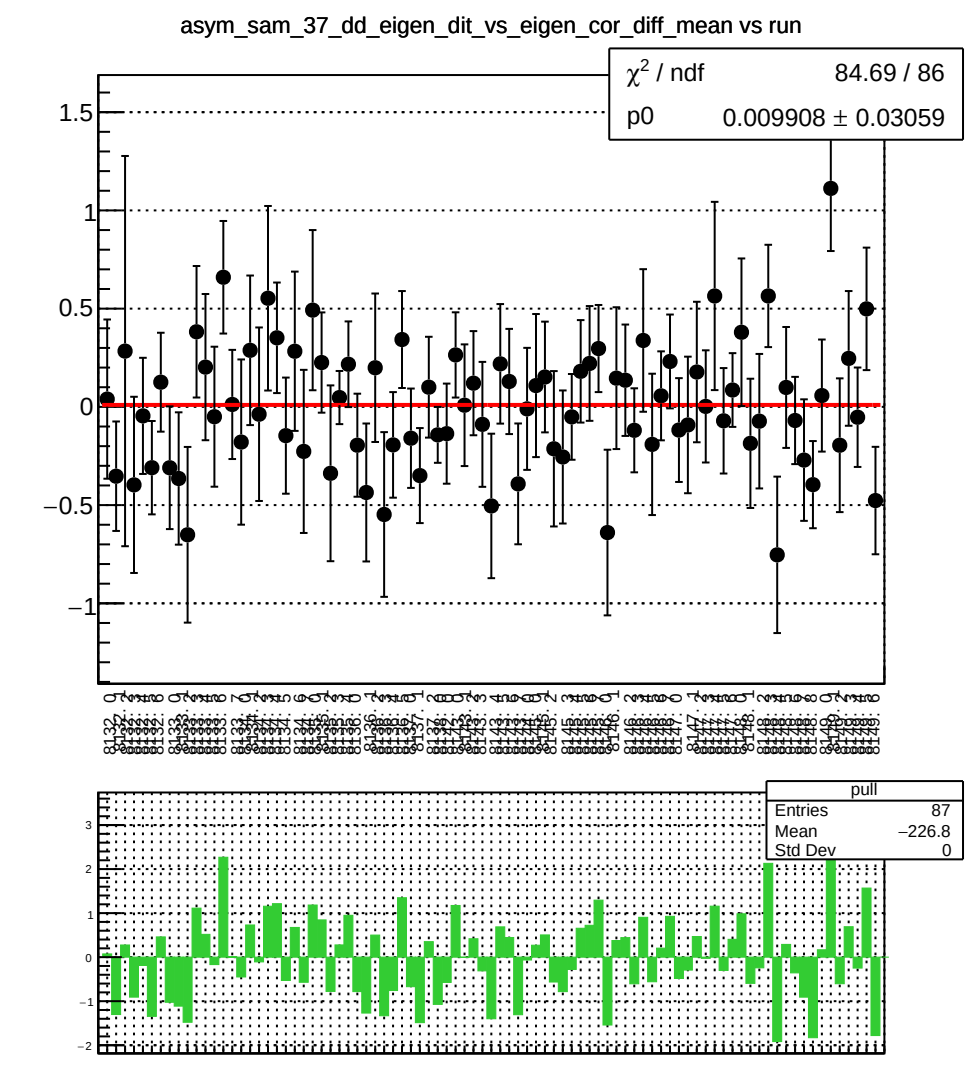

asym_sam_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.38 / 86
p0 1.617e−07 ± 1.344e−06
pull
Entries 87
Mean 4.068
Std Dev 0
pull1D
Entries 87
Mean 0.09989
Std Dev 0.9797

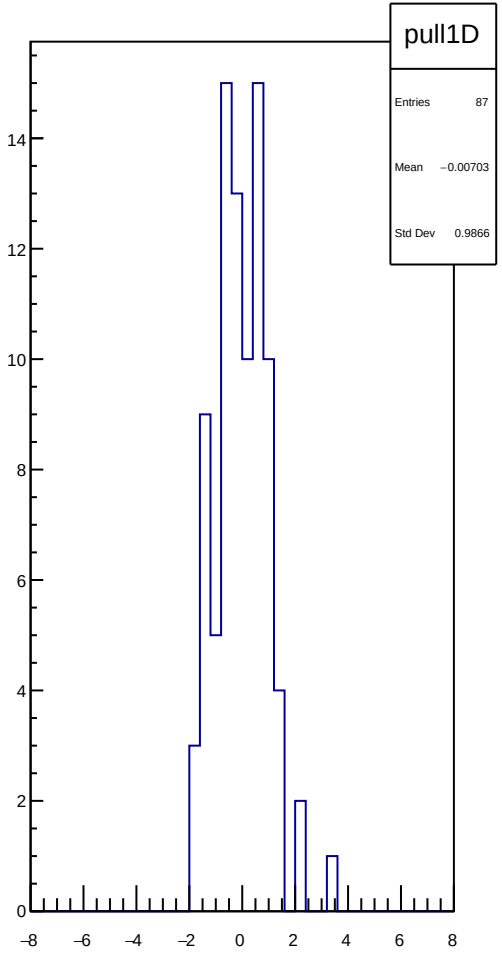

asym_sam_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.316e+05 / 86
p0 0.001035 ± 9.502e−07
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001

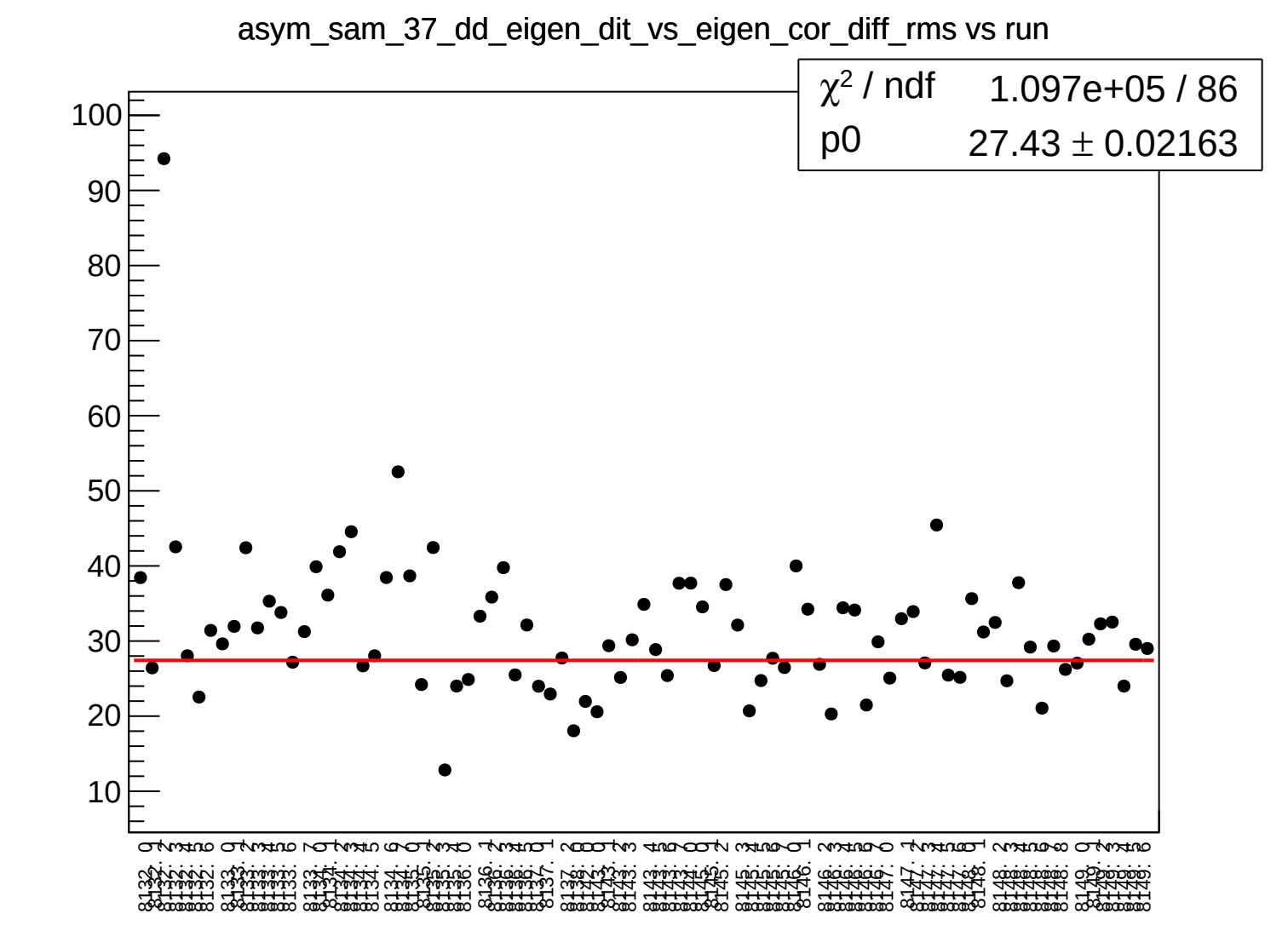

asym_sam_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.69 / 86
p0 0.009908 ± 0.03059
pull
Entries 87
Mean −226.8
Std Dev 0

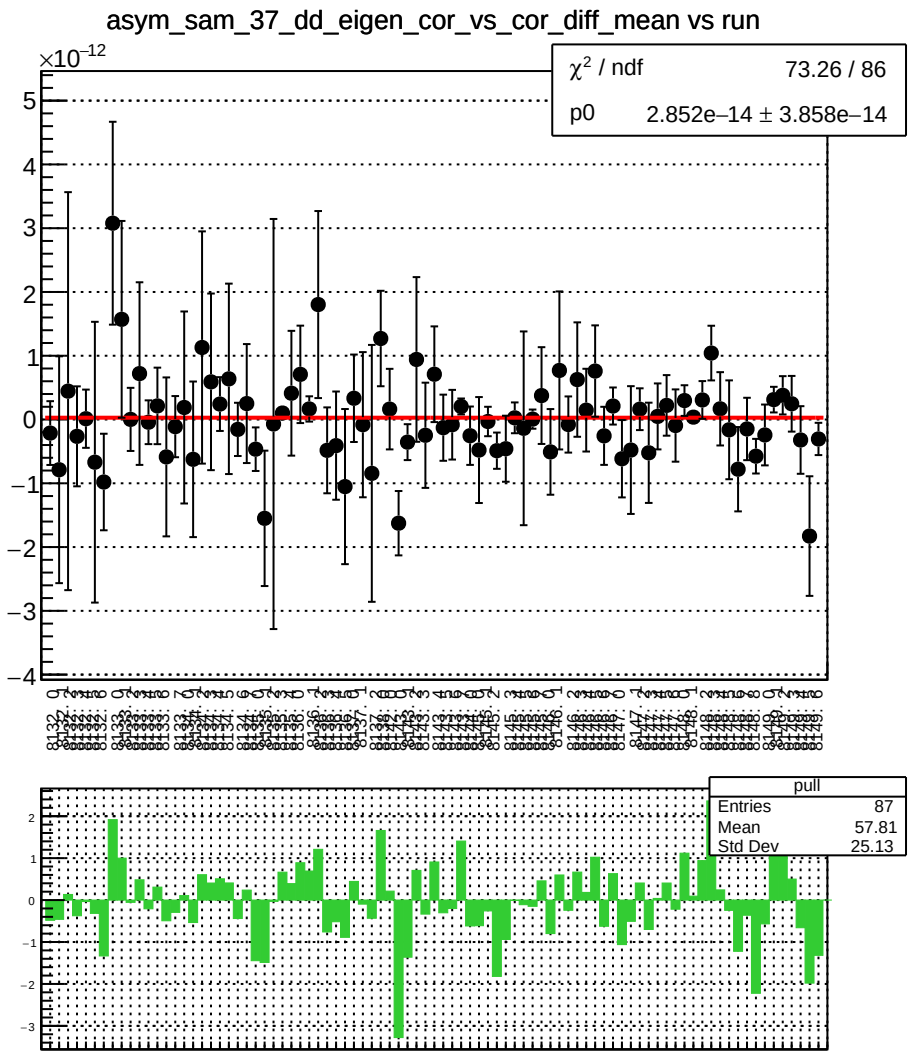

pull1D
Entries 87
Mean −0.00703
Std Dev 0.9866

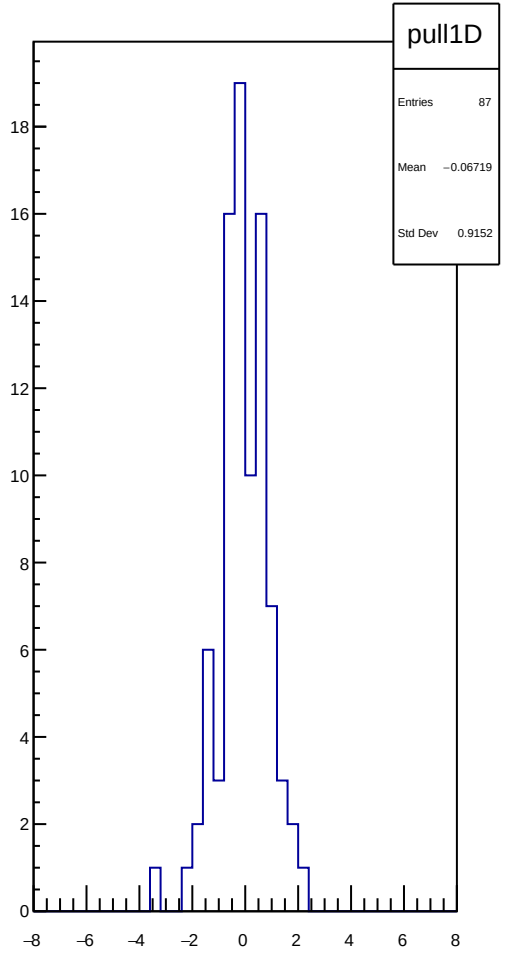

asym_sam_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.097e+05 / 86
p0 27.43 ± 0.02163
100
90
80
70
60
50
40
30
20
10

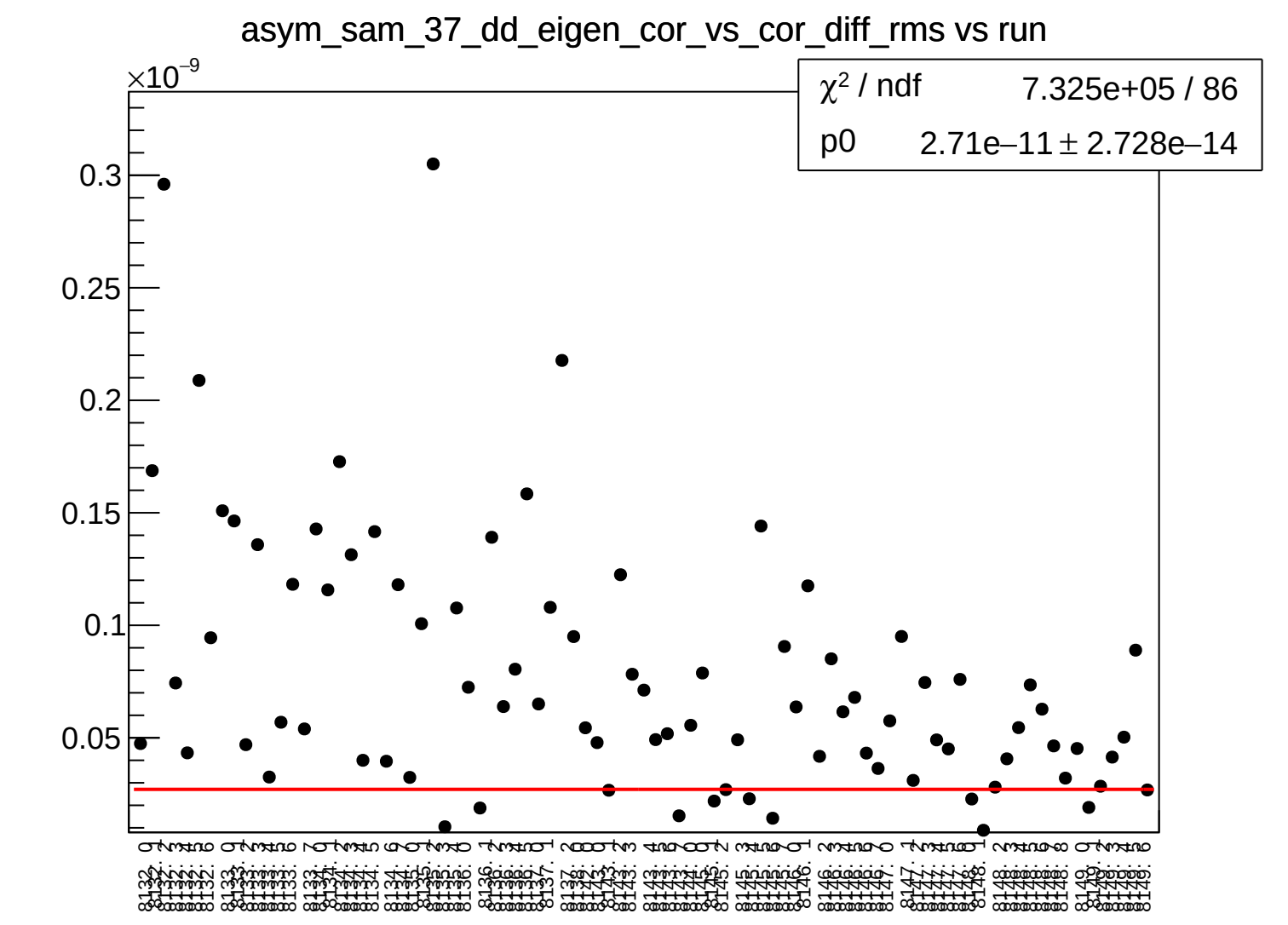

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.69 / 86
p0 0.009908 ± 0.03059
pull
Entries 87
Mean −226.8
Std Dev 0

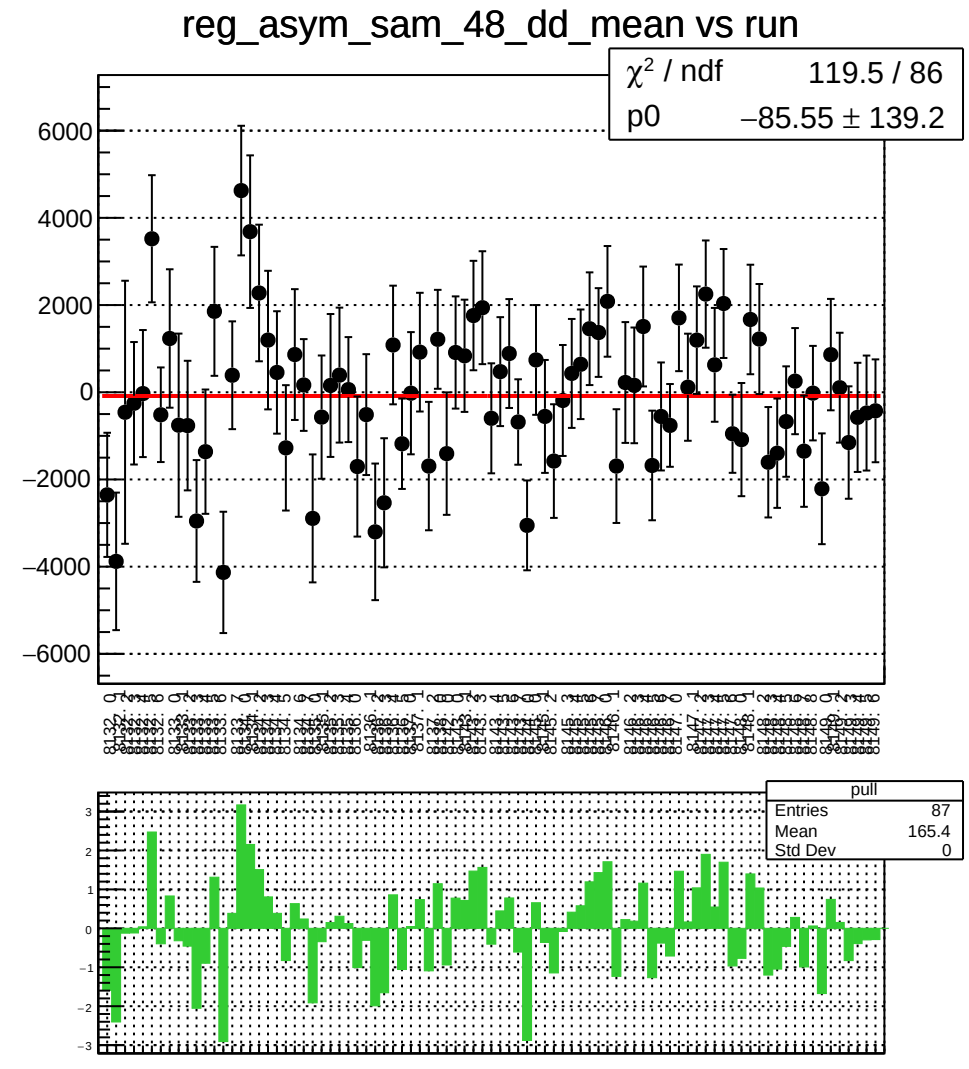

pull1D
Entries 87
Mean −0.00703
Std Dev 0.9866

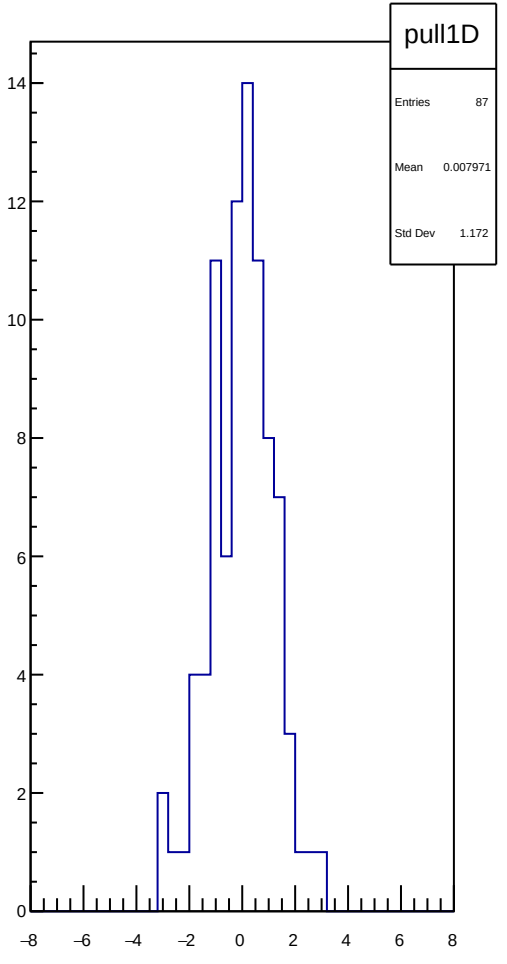

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.097e+05 / 86
p0 27.43 ± 0.02163
100
90
80
70
60
50
40
30
20
10

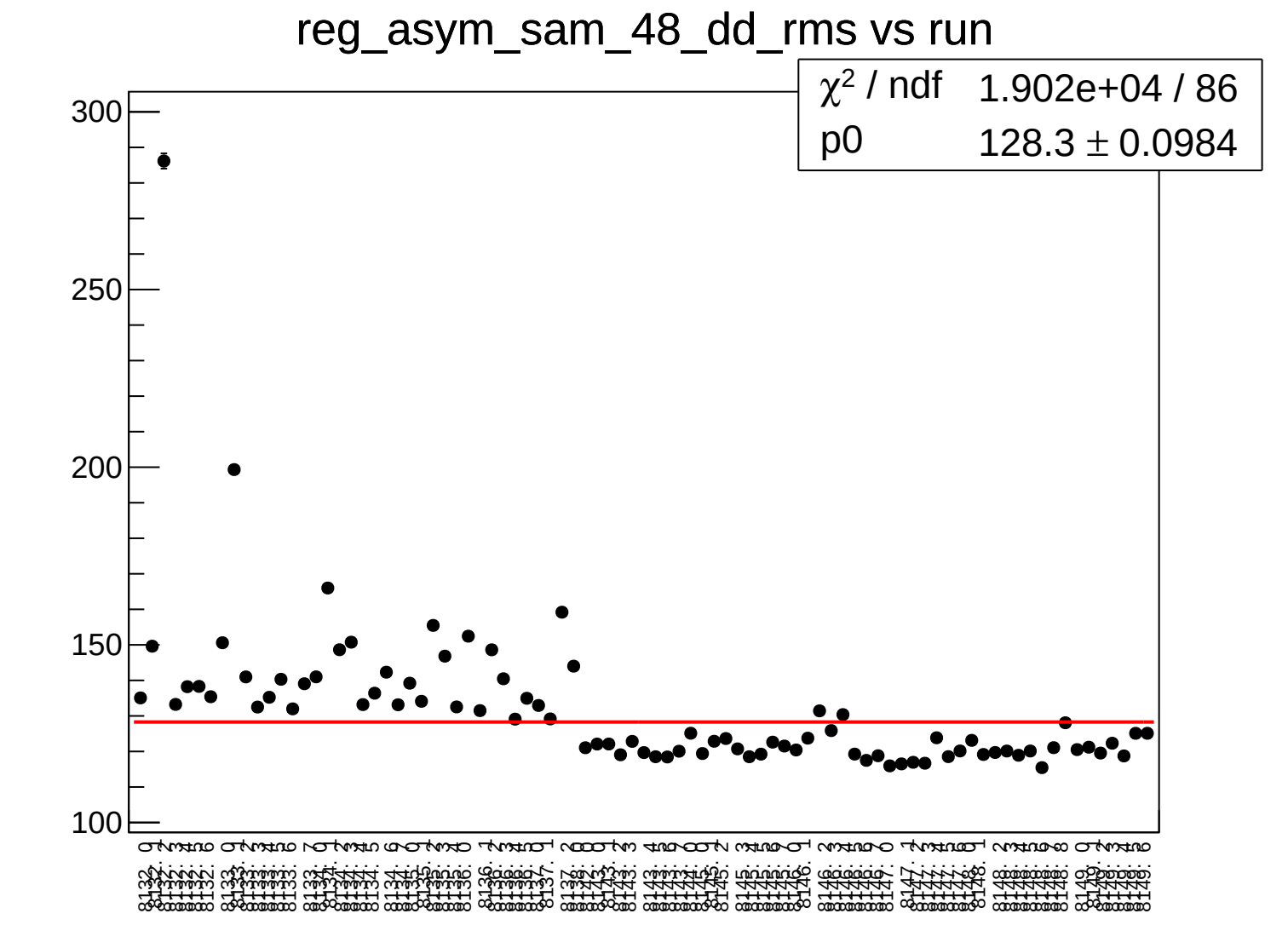

asym_sam_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 73.26 / 86
p0 2.852e−14 ± 3.858e−14
pull
Entries 87
Mean 57.81
Std Dev 25.13

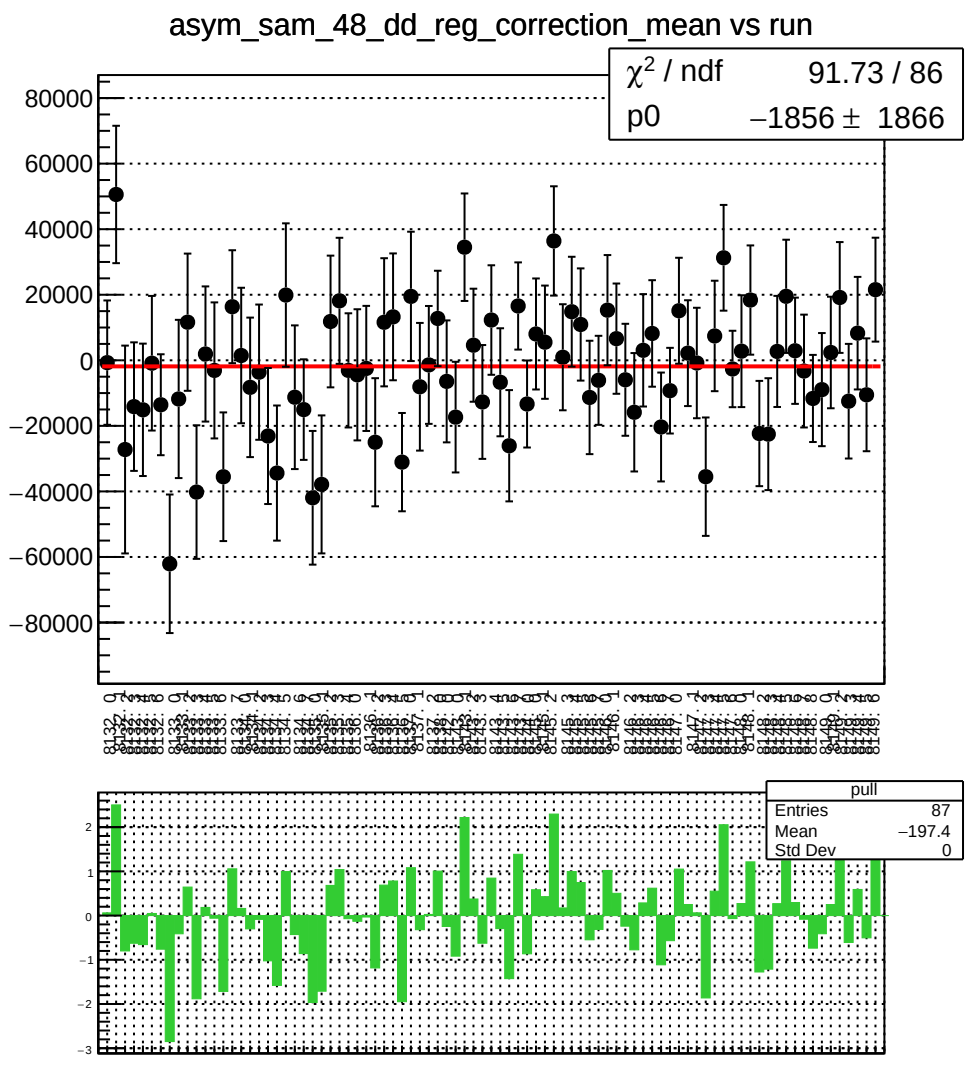

pull1D
Entries 87
Mean −0.06719
Std Dev 0.9152

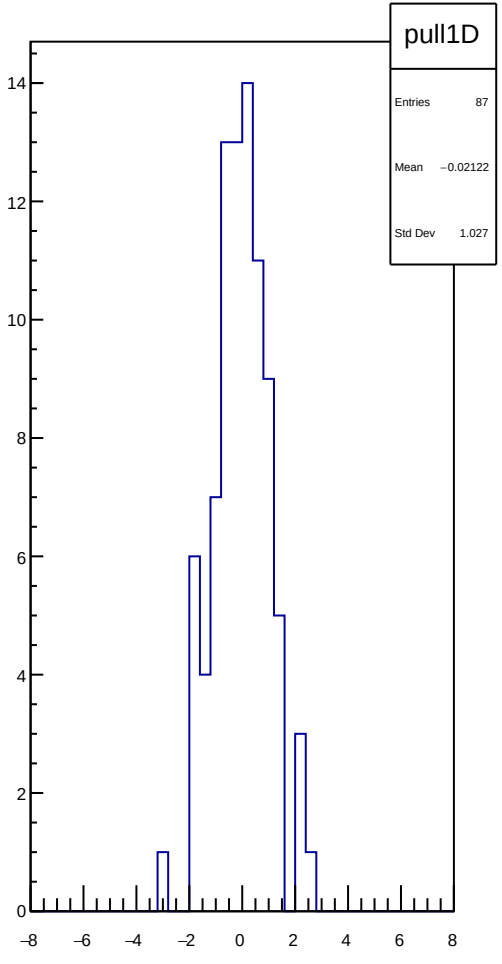

asym_sam_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.325e+05 / 86
p0 2.71e−11 ± 2.728e−14
0.3
0.25
0.2
0.15
0.1
0.05

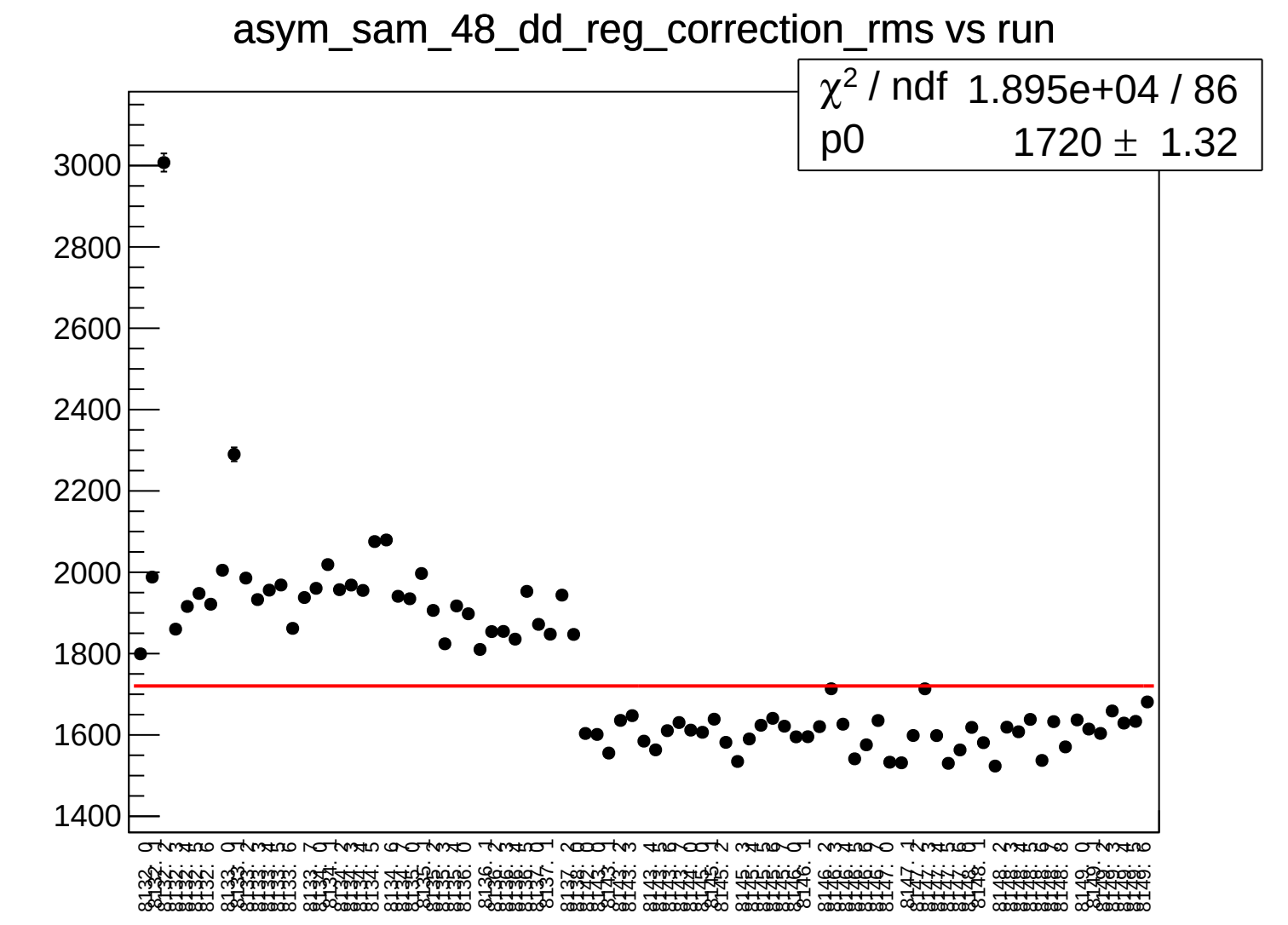

reg_asym_sam_48_dd_mean vs run
χ² / ndf 119.5 / 86
p0 −85.55 ± 139.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 87
Mean 165.4
Std Dev 0
3
2
1
0
−1
−2
−3

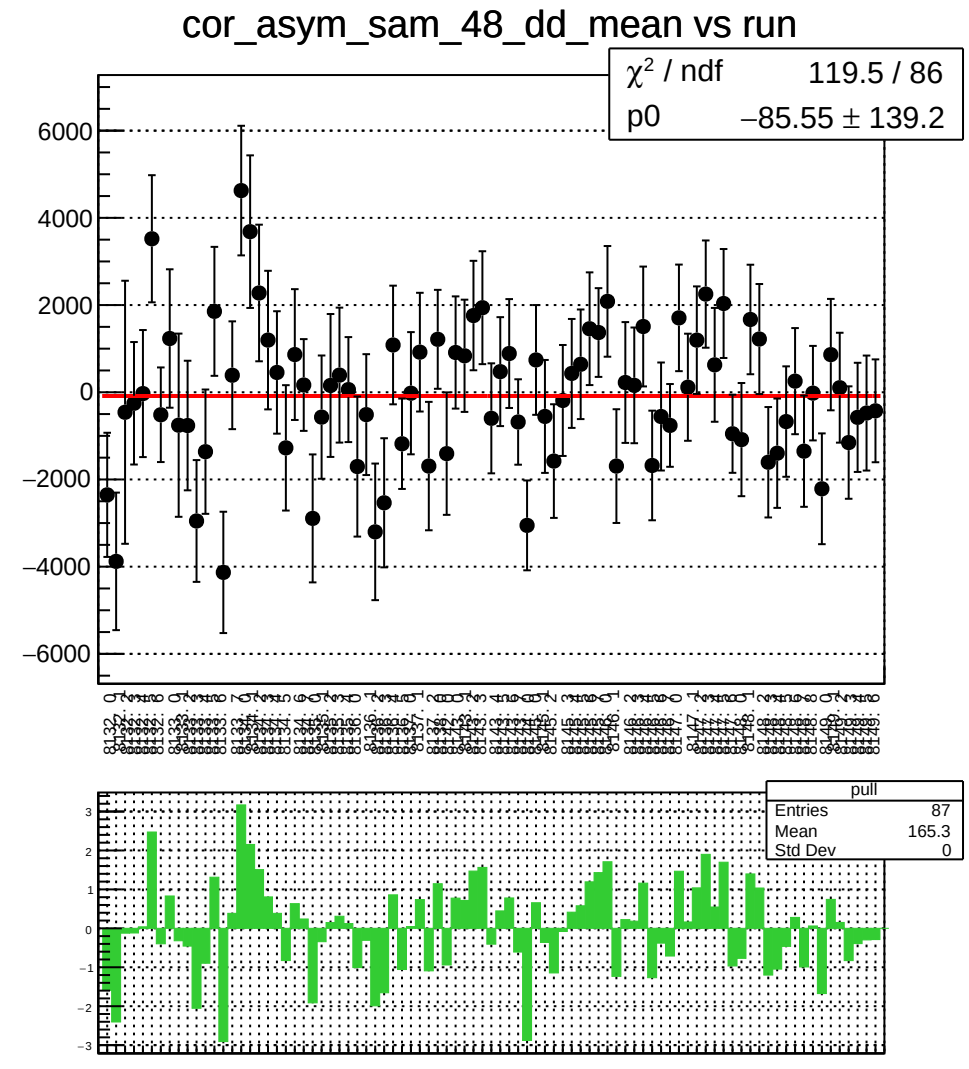

pull1D
Entries 87
Mean 0.007971
Std Dev 1.172
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

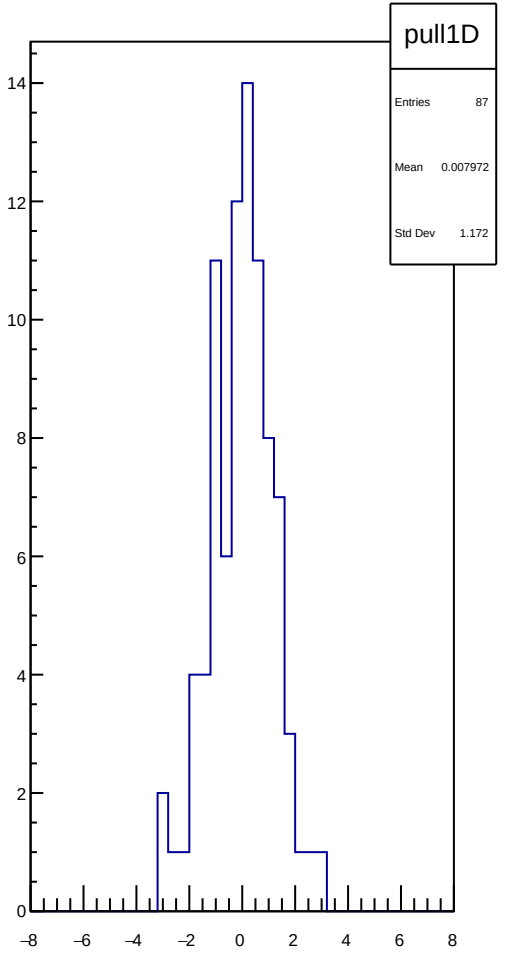

reg_asym_sam_48_dd_rms vs run
χ² / ndf 1.902e+04 / 86
p0 128.3 ± 0.0984
300
250
200
150
100

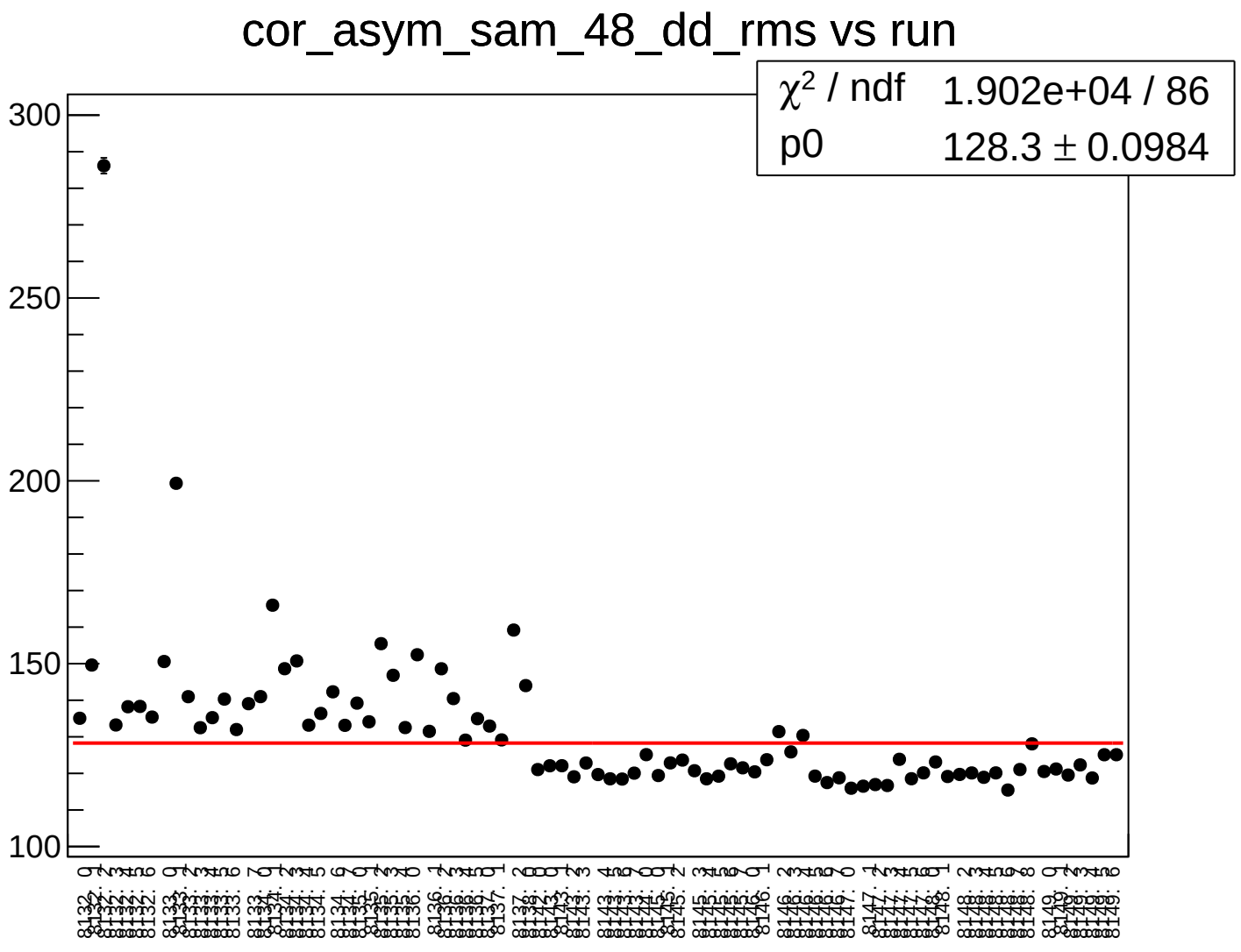

asym_sam_48_dd_reg_correction_mean vs run
χ² / ndf 91.73 / 86
p0 −1856 ± 1866
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean −197.4
Std Dev 0
2
1
0
−1
−2
−3

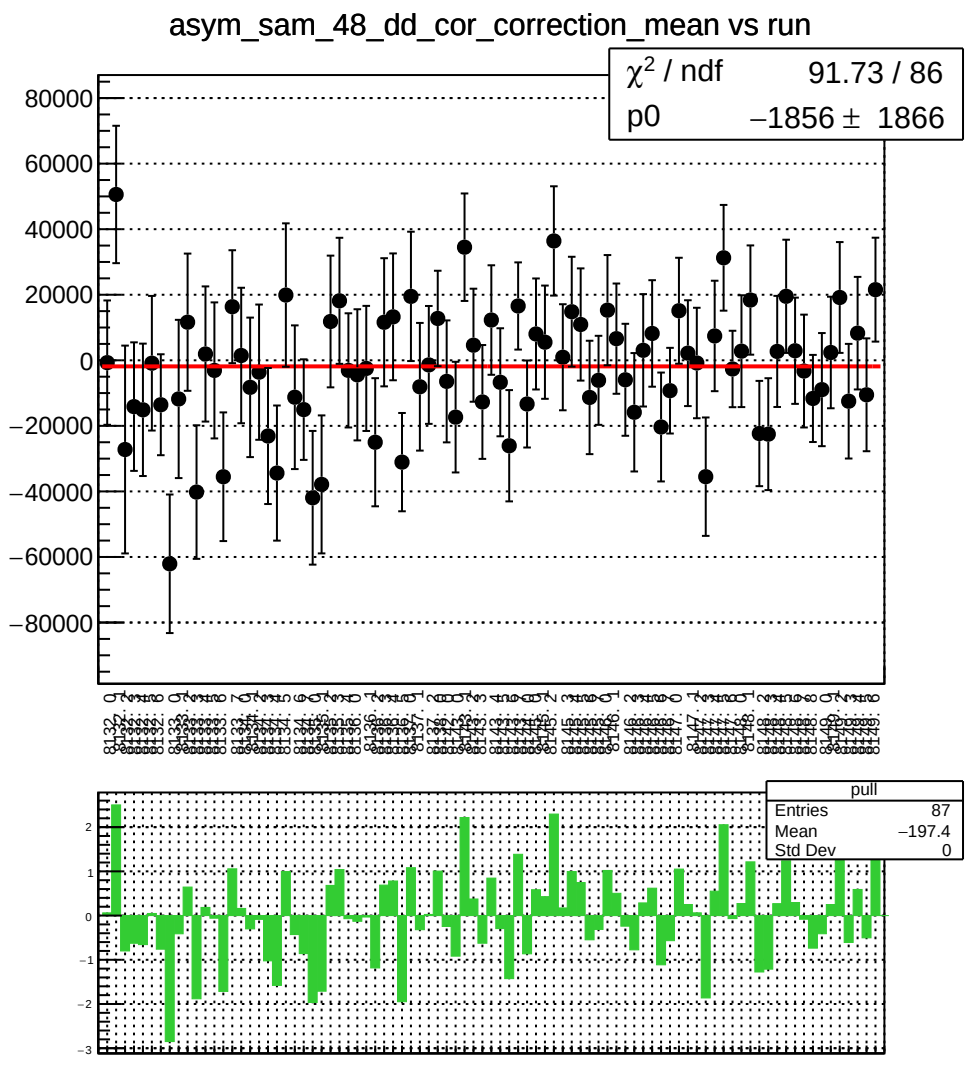

pull1D
Entries 87
Mean −0.02122
Std Dev 1.027
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

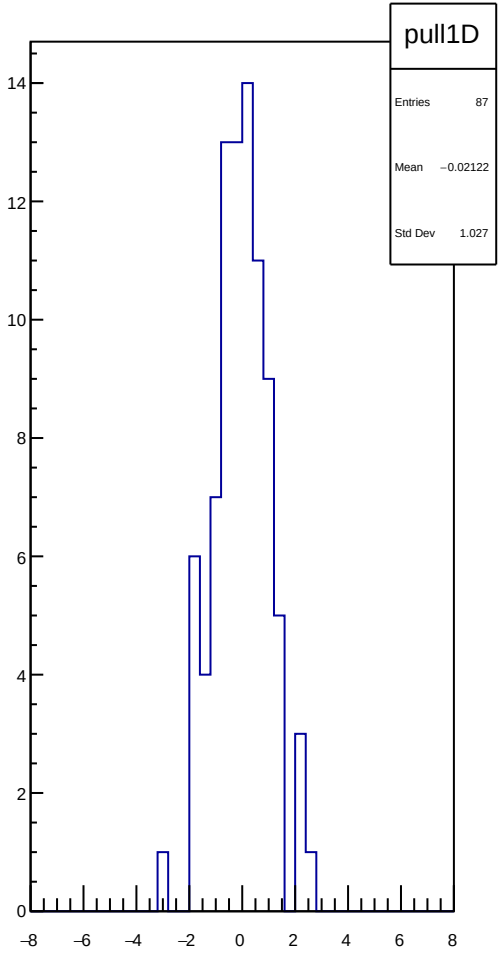

asym_sam_48_dd_reg_correction_rms vs run
χ² / ndf 1.895e+04 / 86
p0 1720 ± 1.32
3000
2800
2600
2400
2200
2000
1800
1600
1400

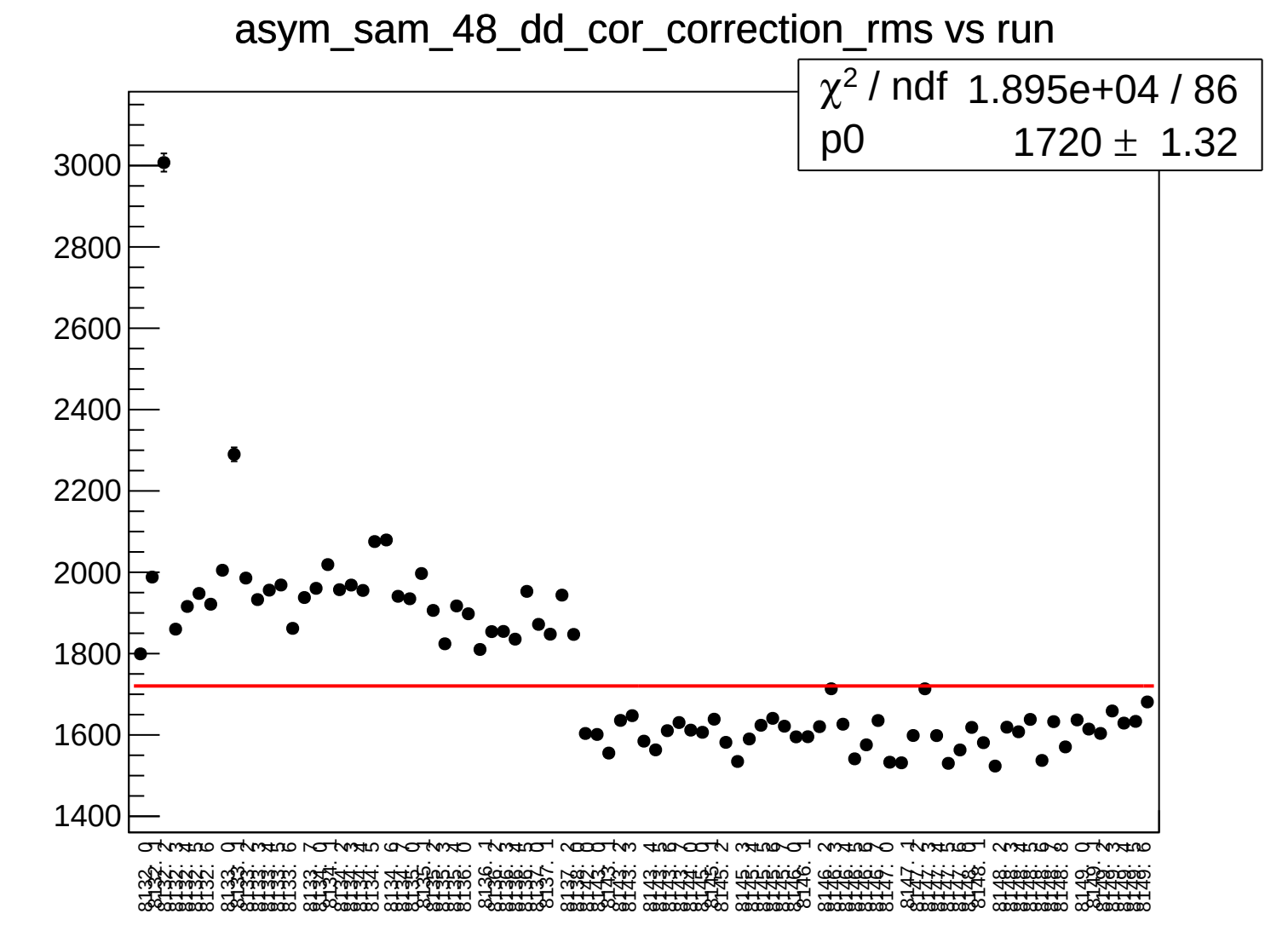

cor_asym_sam_48_dd_mean vs run
χ² / ndf 119.5 / 86
p0 −85.55 ± 139.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 87
Mean 165.3
Std Dev 0
3
2
1
0
−1
−2
−3

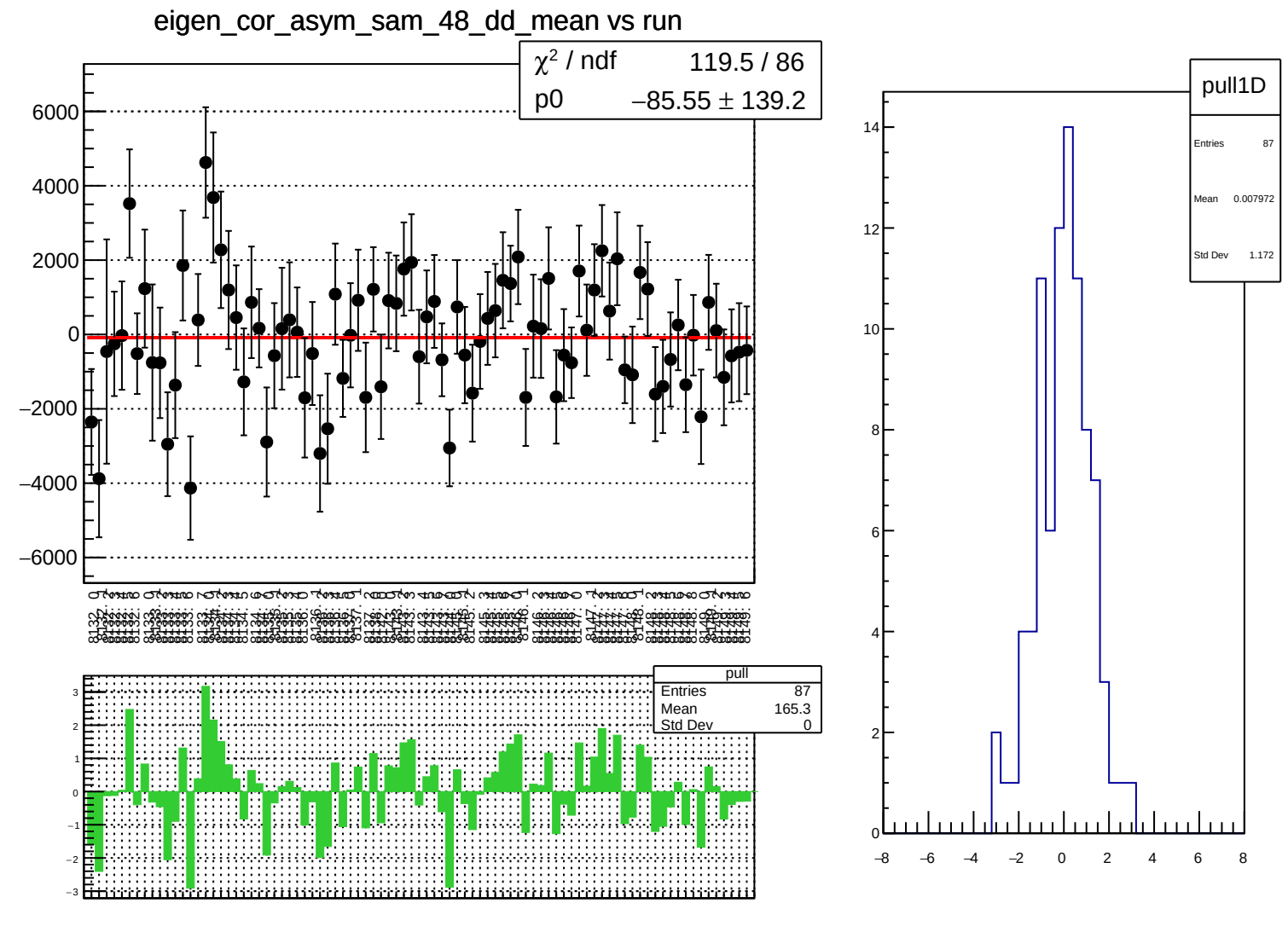

pull1D
Entries 87
Mean 0.007972
Std Dev 1.172
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

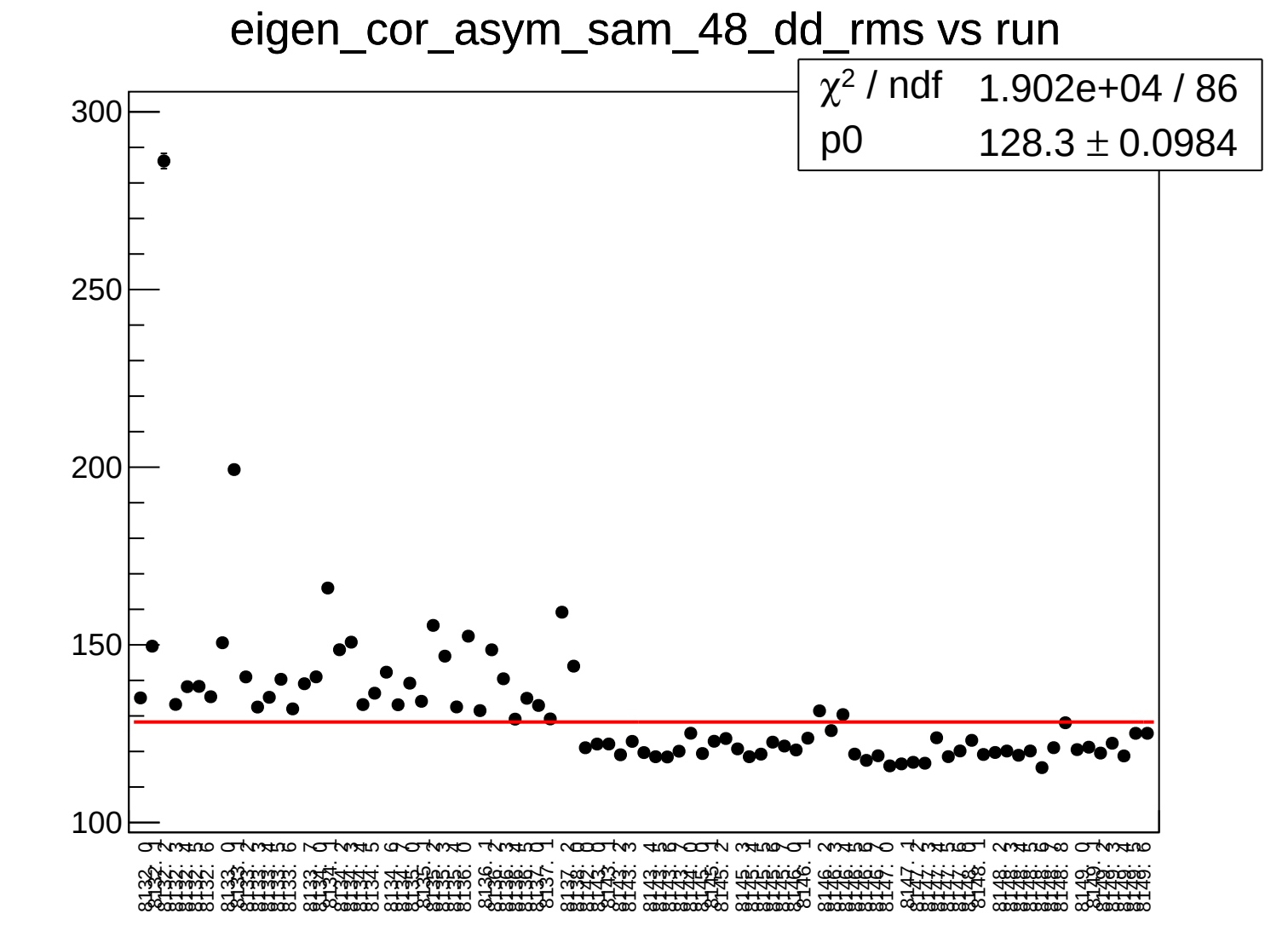

cor_asym_sam_48_dd_rms vs run
χ² / ndf 1.902e+04 / 86
p0 128.3 ± 0.0984
300
250
200
150
100

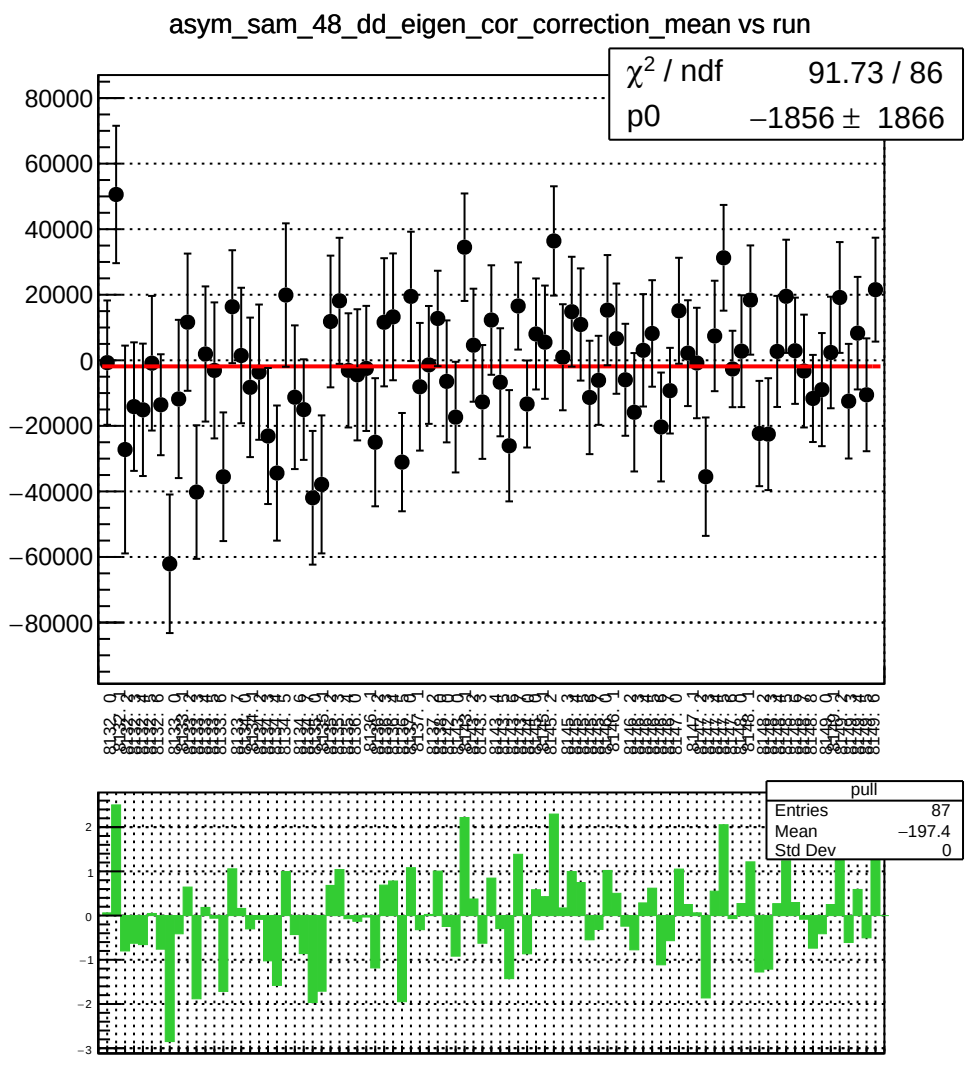

asym_sam_48_dd_cor_correction_mean vs run
χ² / ndf 91.73 / 86
p0 −1856 ± 1866
pull
Entries 87
Mean −197.4
Std Dev 0

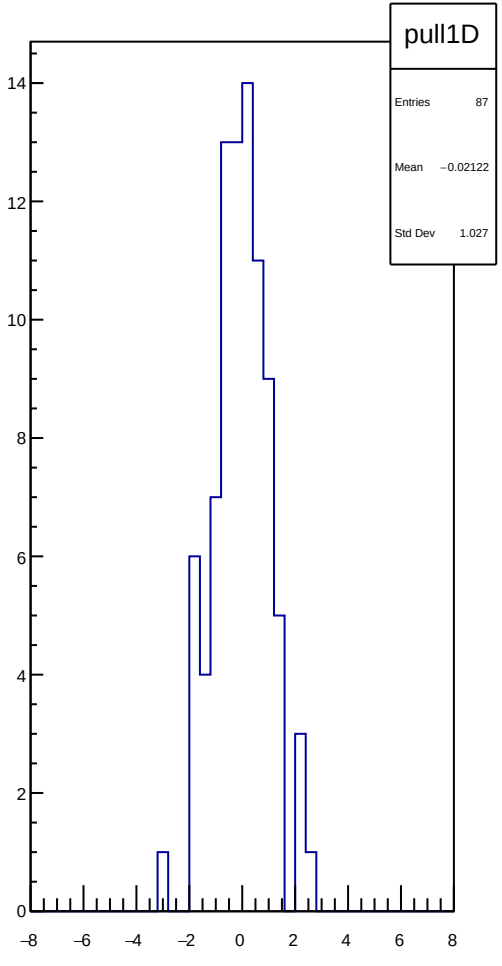

pull1D
Entries 87
Mean −0.02122
Std Dev 1.027

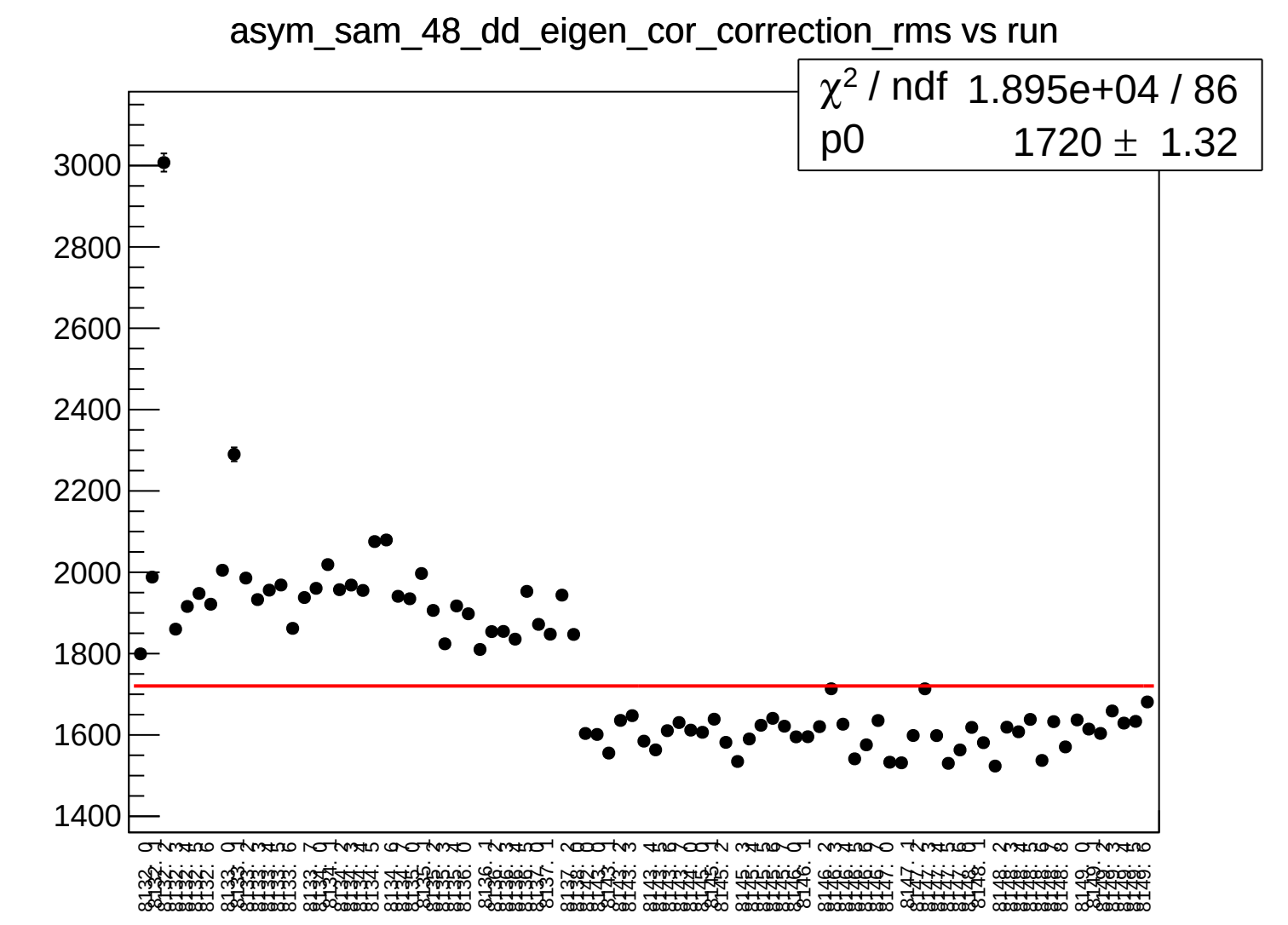

asym_sam_48_dd_cor_correction_rms vs run
χ² / ndf 1.895e+04 / 86
p0 1720 ± 1.32
3000
2800
2600
2400
2200
2000
1800
1600
1400

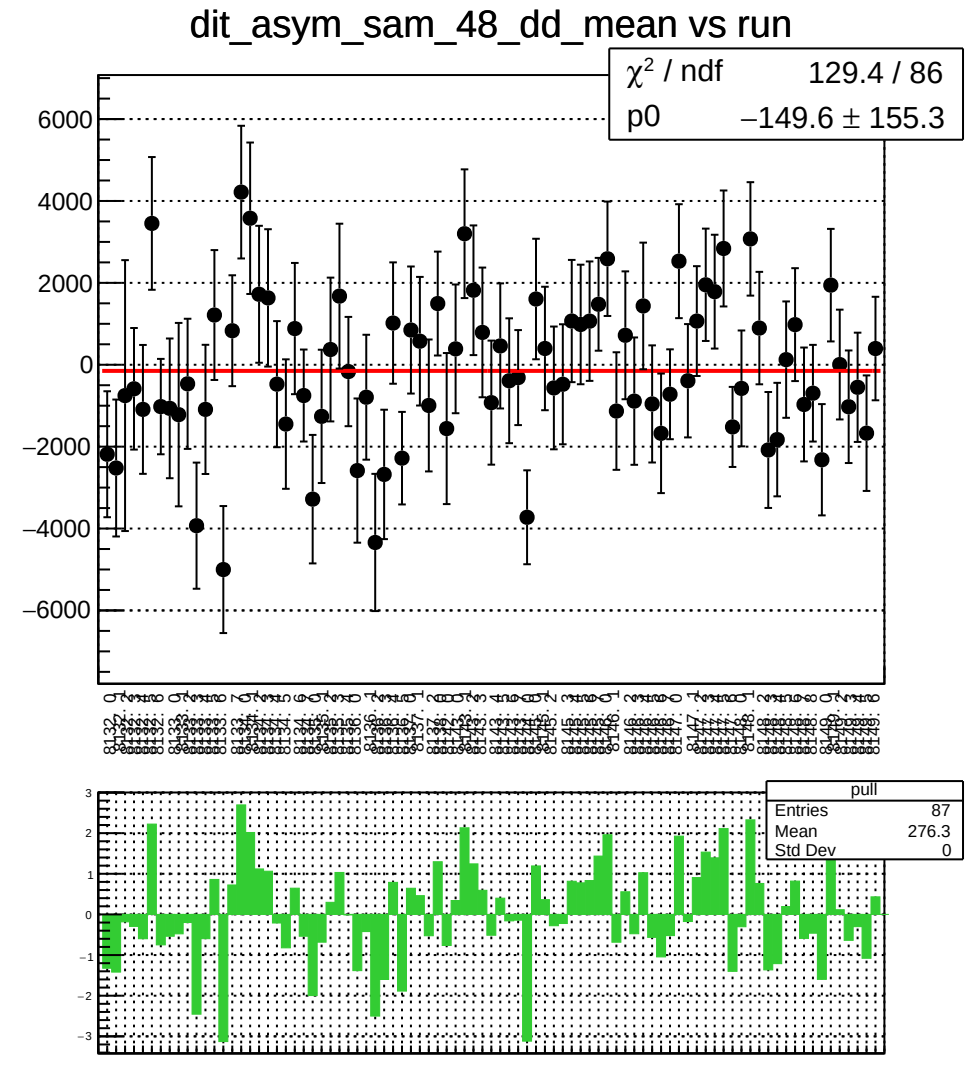

eigen_cor_asym_sam_48_dd_mean vs run
χ² / ndf 119.5 / 86
p0 −85.55 ± 139.2
pull
Entries 87
Mean 165.3
Std Dev 0
pull1D
Entries 87
Mean 0.007972
Std Dev 1.172

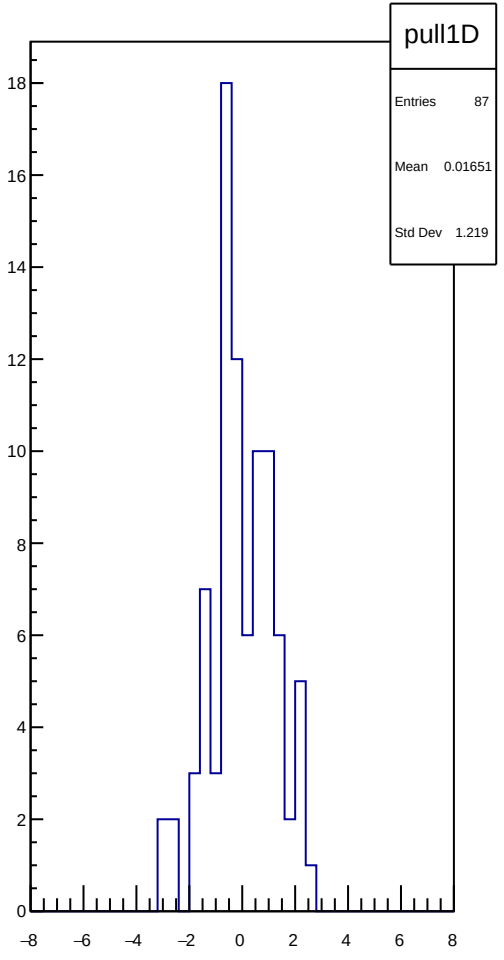

eigen_cor_asym_sam_48_dd_rms vs run
χ² / ndf 1.902e+04 / 86
p0 128.3 ± 0.0984
300
250
200
150
100

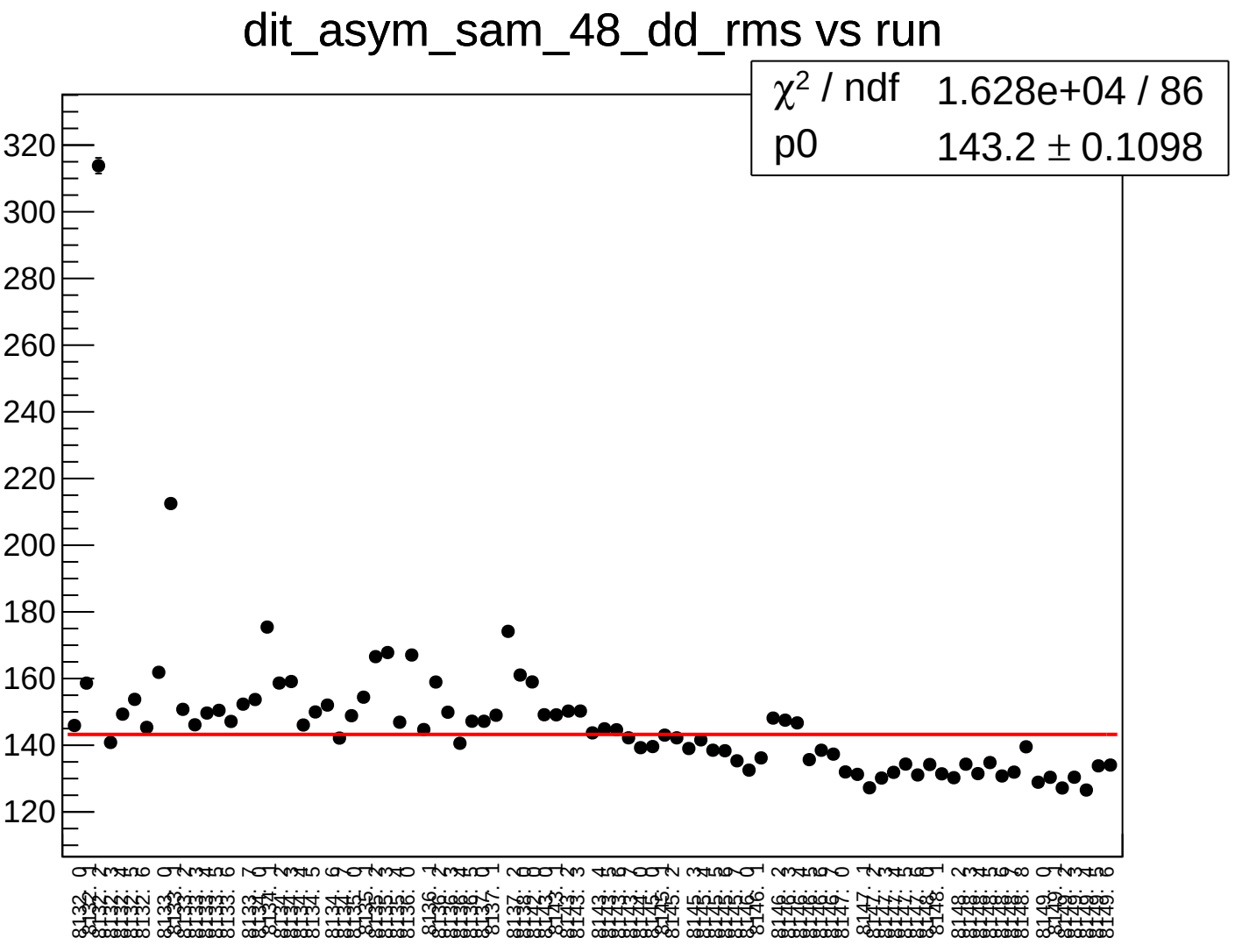

asym_sam_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 91.73 / 86
p0 −1856 ± 1866
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean −197.4
Std Dev 0
2
1
0
−1
−2
−3

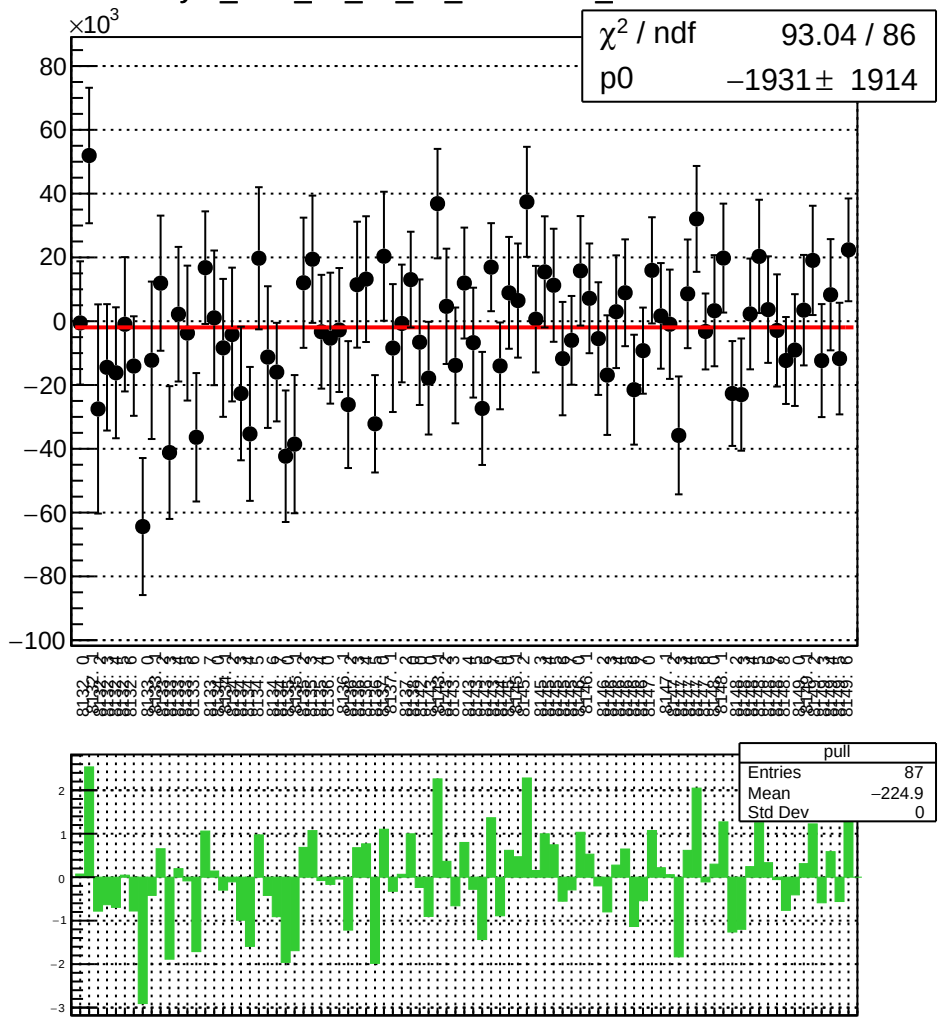

pull1D
Entries 87
Mean −0.02122
Std Dev 1.027
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

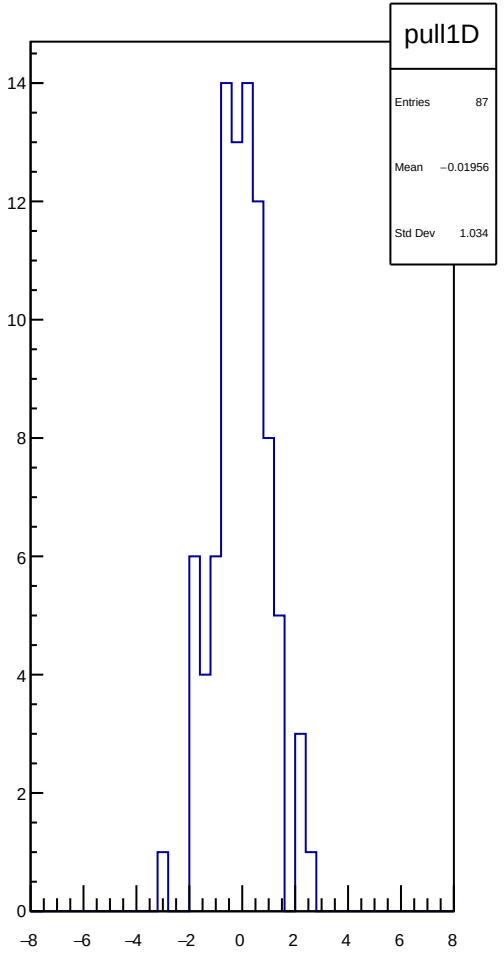

asym_sam_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.895e+04 / 86
p0 1720 ± 1.32
3000
2800
2600
2400
2200
2000
1800
1600
1400

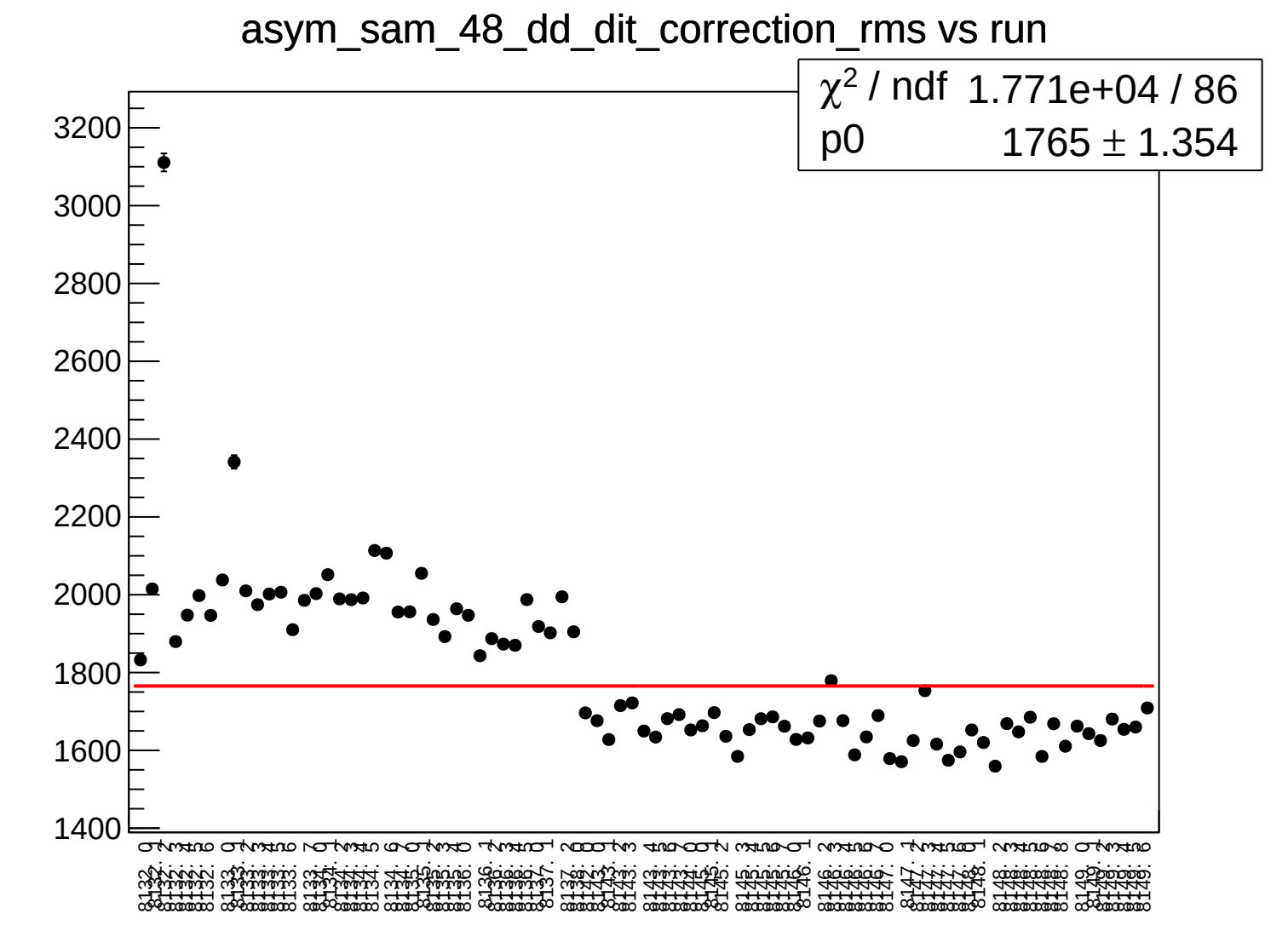

dit_asym_sam_48_dd_mean vs run
χ² / ndf 129.4 / 86
p0 −149.6 ± 155.3
pull
Entries 87
Mean 276.3
Std Dev 0

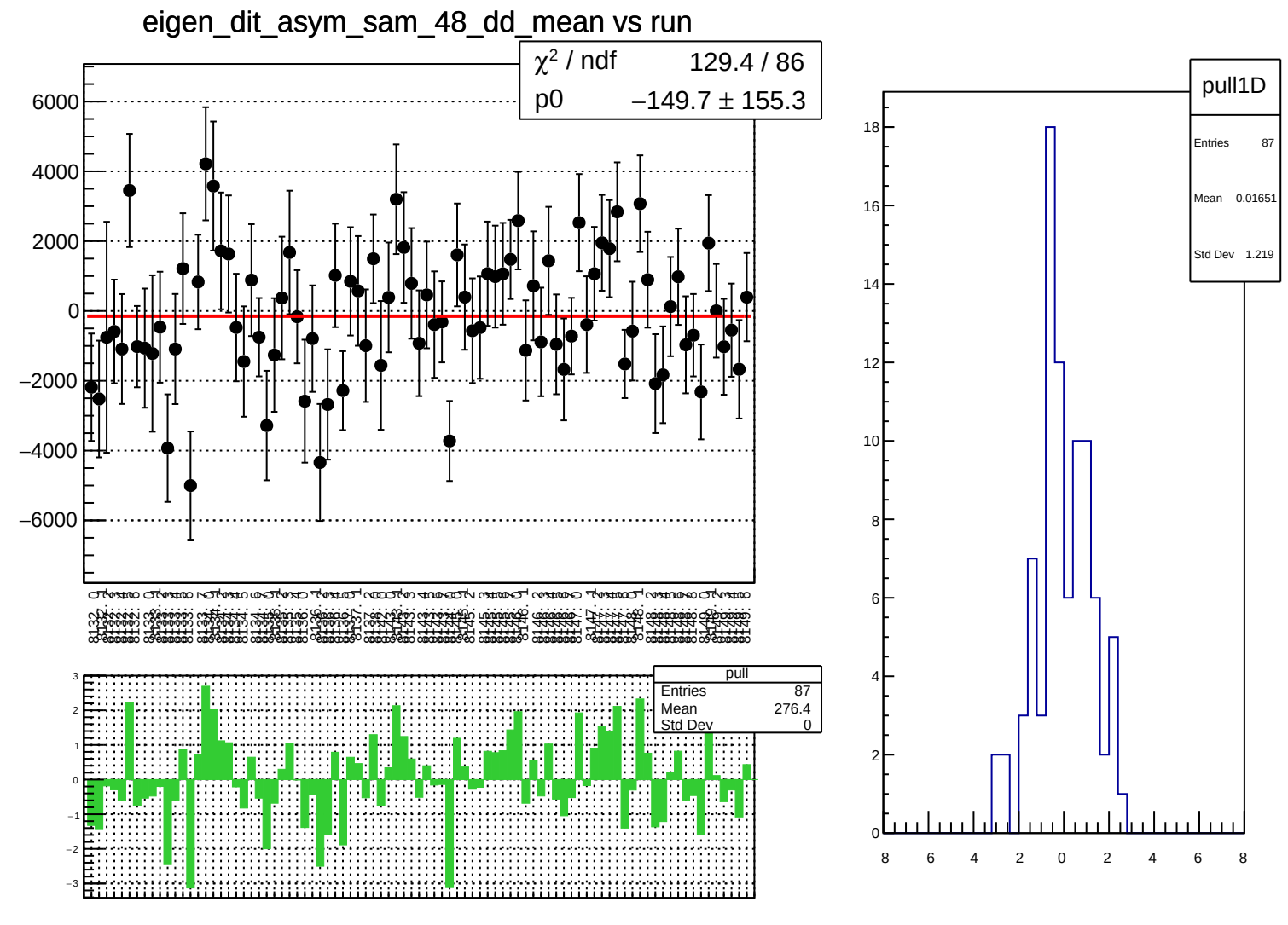

pull1D
Entries 87
Mean 0.01651
Std Dev 1.219

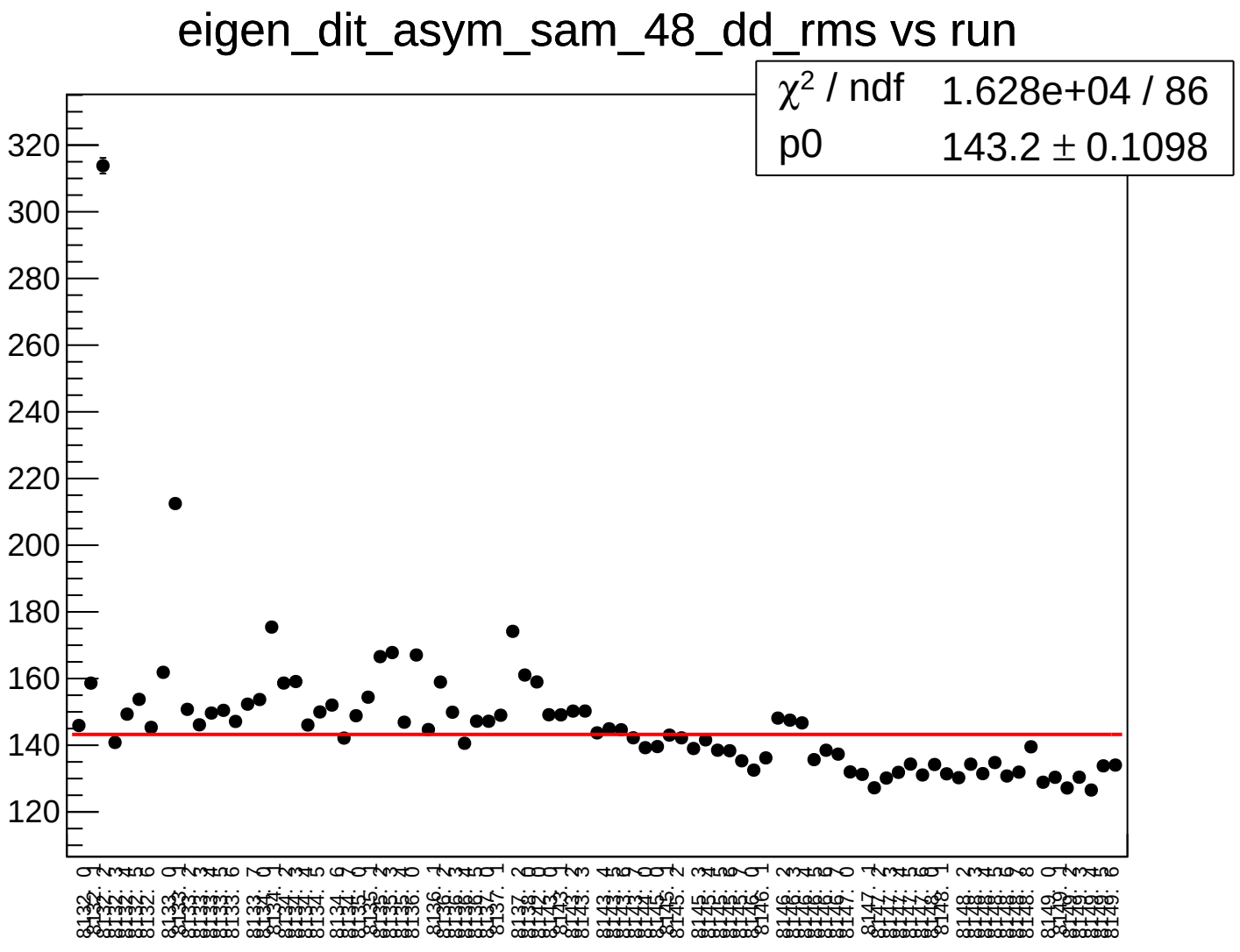

dit_asym_sam_48_dd_rms vs run
χ² / ndf 1.628e+04 / 86
p0 143.2 ± 0.1098
320
300
280
260
240
220
200
180
160
140
120

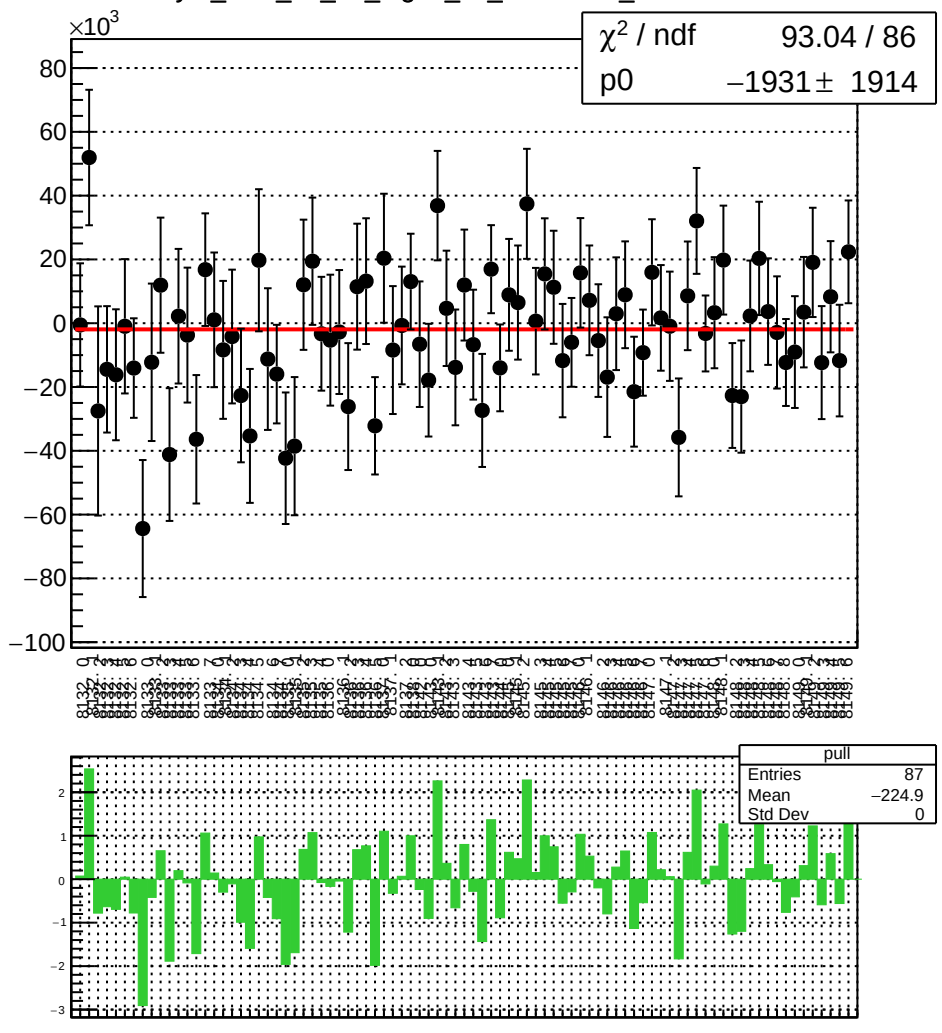

asym_sam_48_dd_dit_correction_mean vs run
×10^3
χ² / ndf 93.04 / 86
p0 −1931 ± 1914
pull
Entries 87
Mean −224.9
Std Dev 0

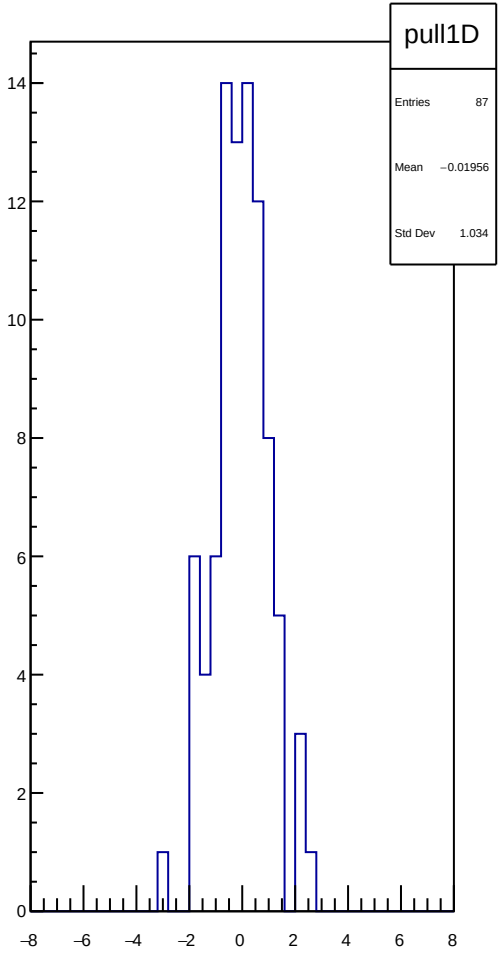

pull1D
Entries 87
Mean −0.01956
Std Dev 1.034

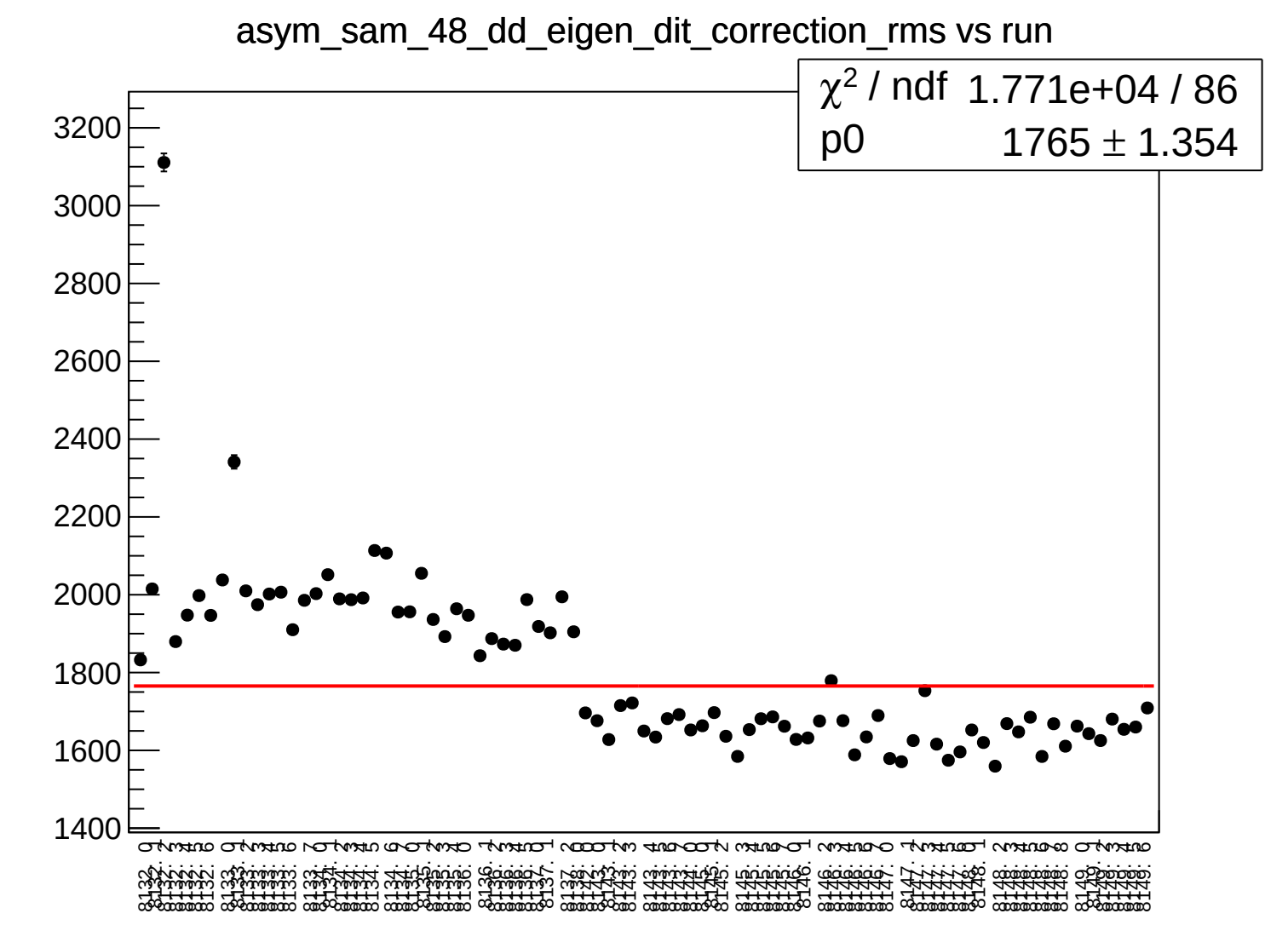

asym_sam_48_dd_dit_correction_rms vs run
χ² / ndf 1.771e+04 / 86
p0 1765 ± 1.354
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400

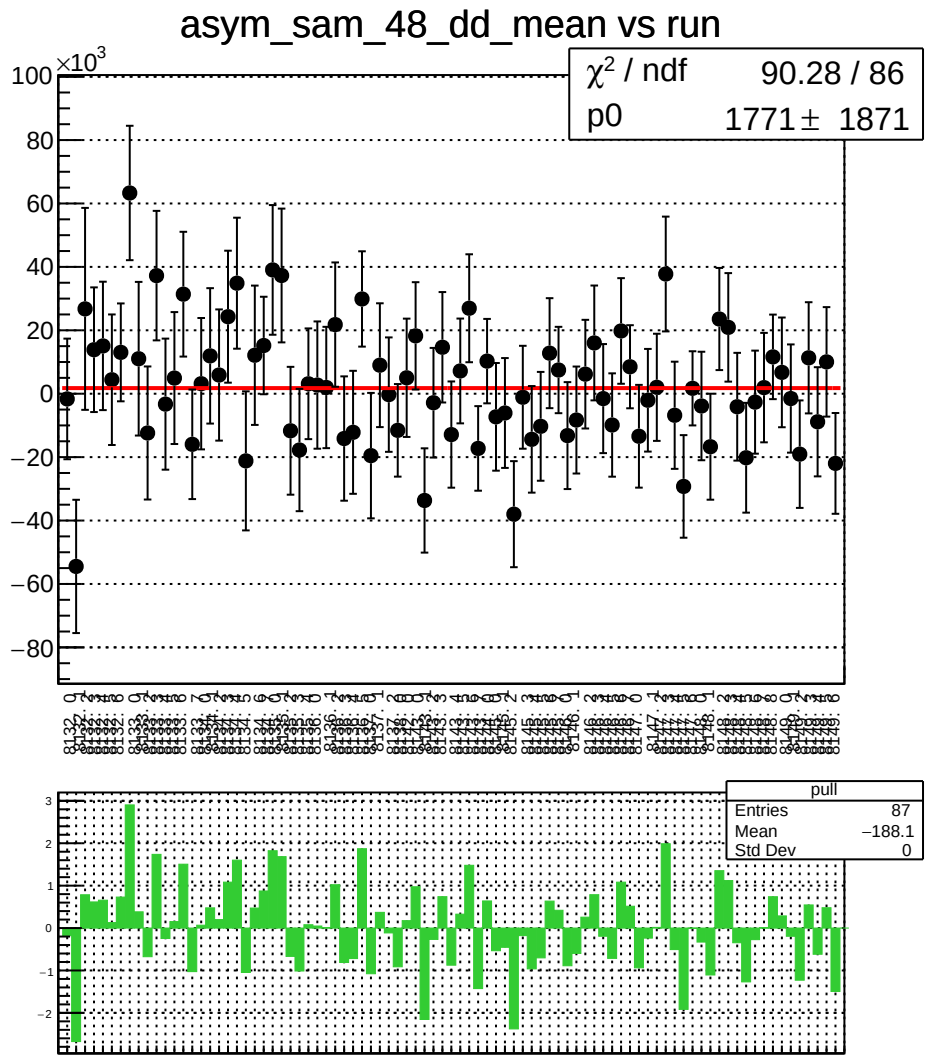

eigen_dit_asym_sam_48_dd_mean vs run
χ² / ndf 129.4 / 86
p0 −149.7 ± 155.3
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 87
Mean 276.4
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean 0.01651
Std Dev 1.219
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

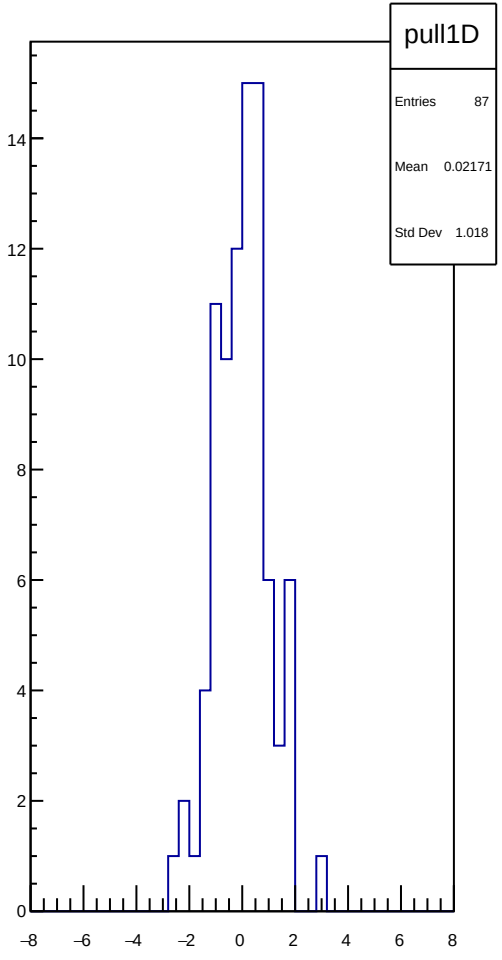

eigen_dit_asym_sam_48_dd_rms vs run
χ² / ndf 1.628e+04 / 86
p0 143.2 ± 0.1098
320
300
280
260
240
220
200
180
160
140
120

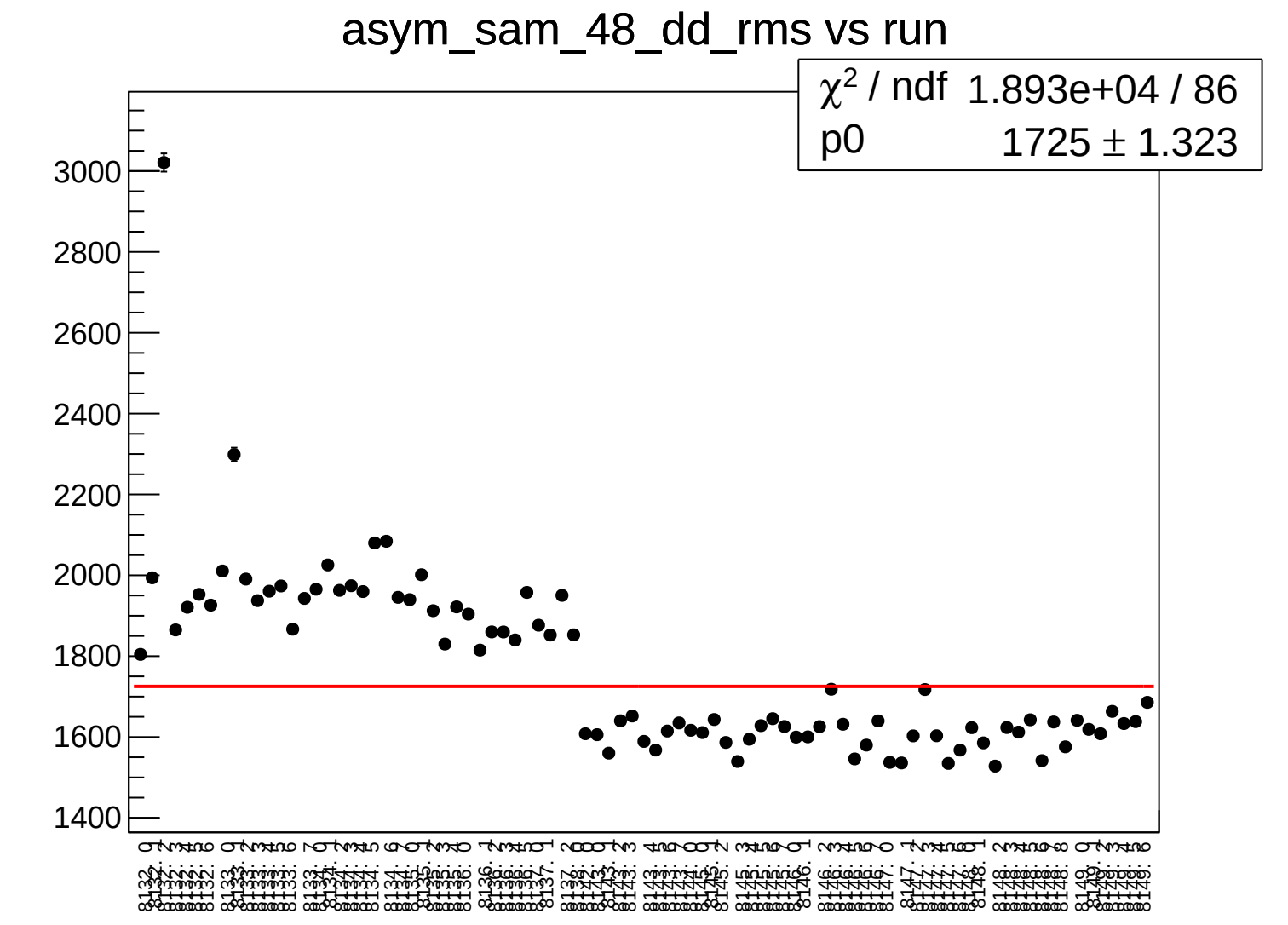

asym_sam_48_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 93.04 / 86
p0 −1931 ± 1914
pull
Entries 87
Mean −224.9
Std Dev 0

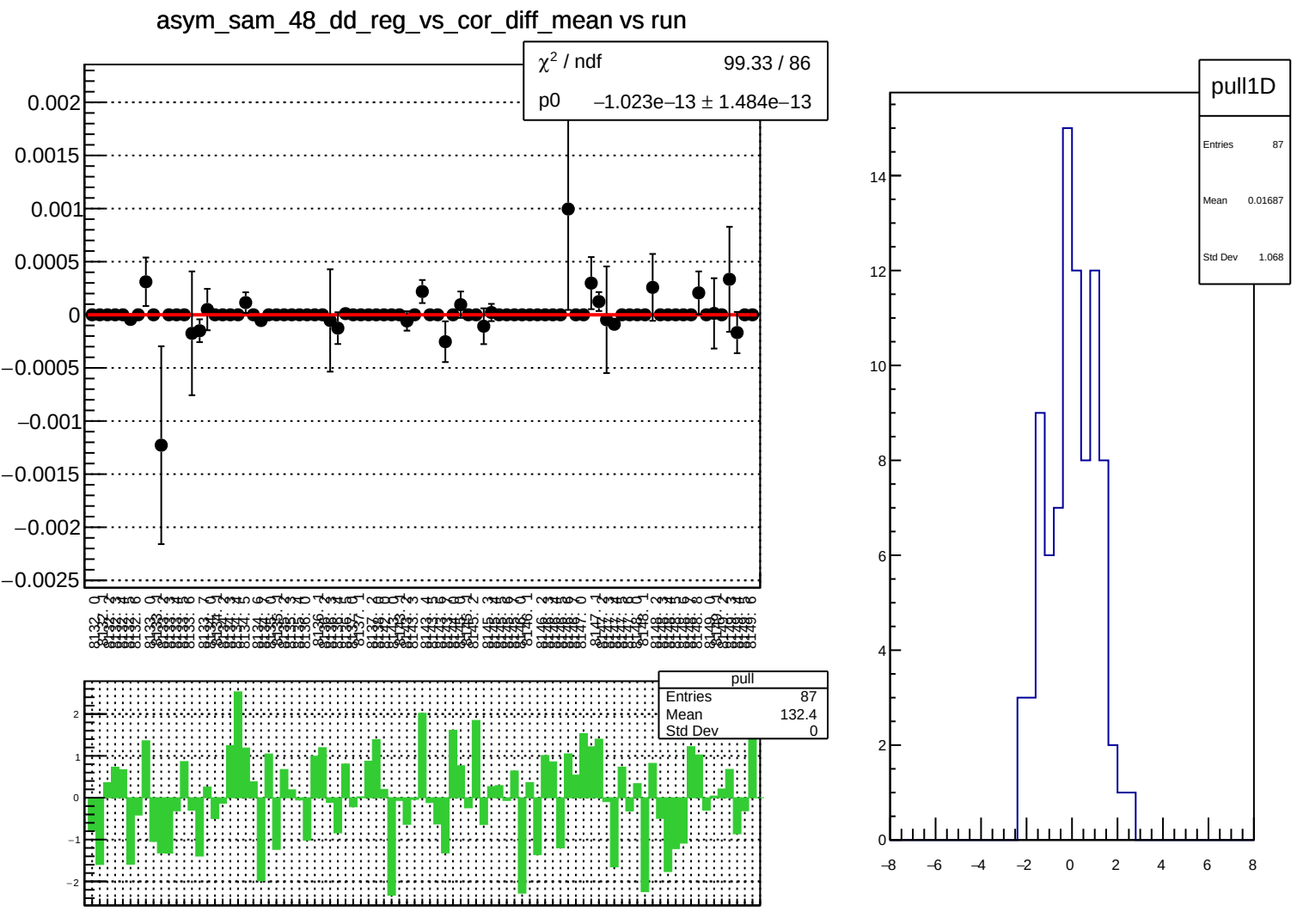

pull1D
Entries 87
Mean −0.01956
Std Dev 1.034

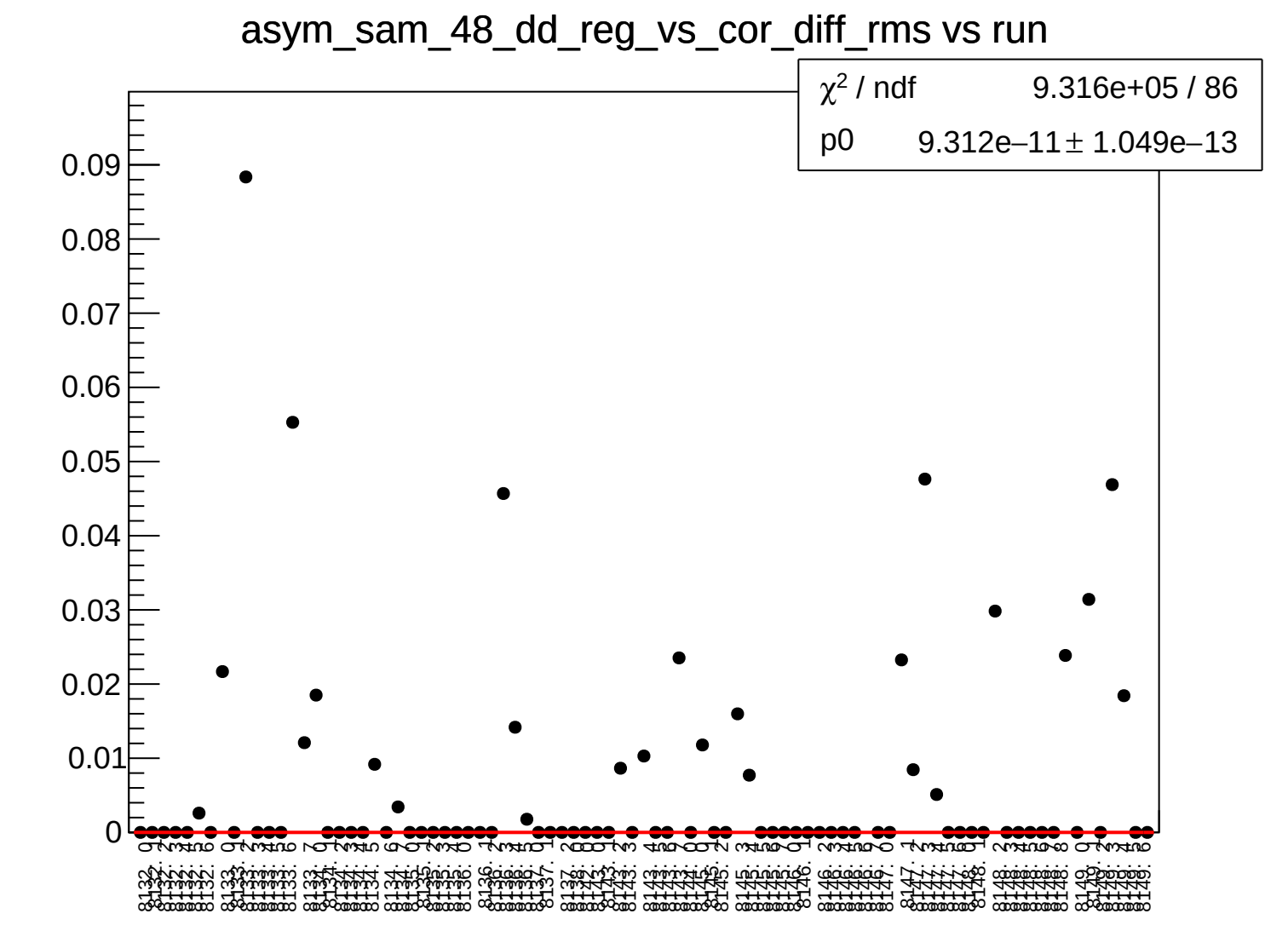

asym_sam_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.771e+04 / 86
p0 1765 ± 1.354
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400

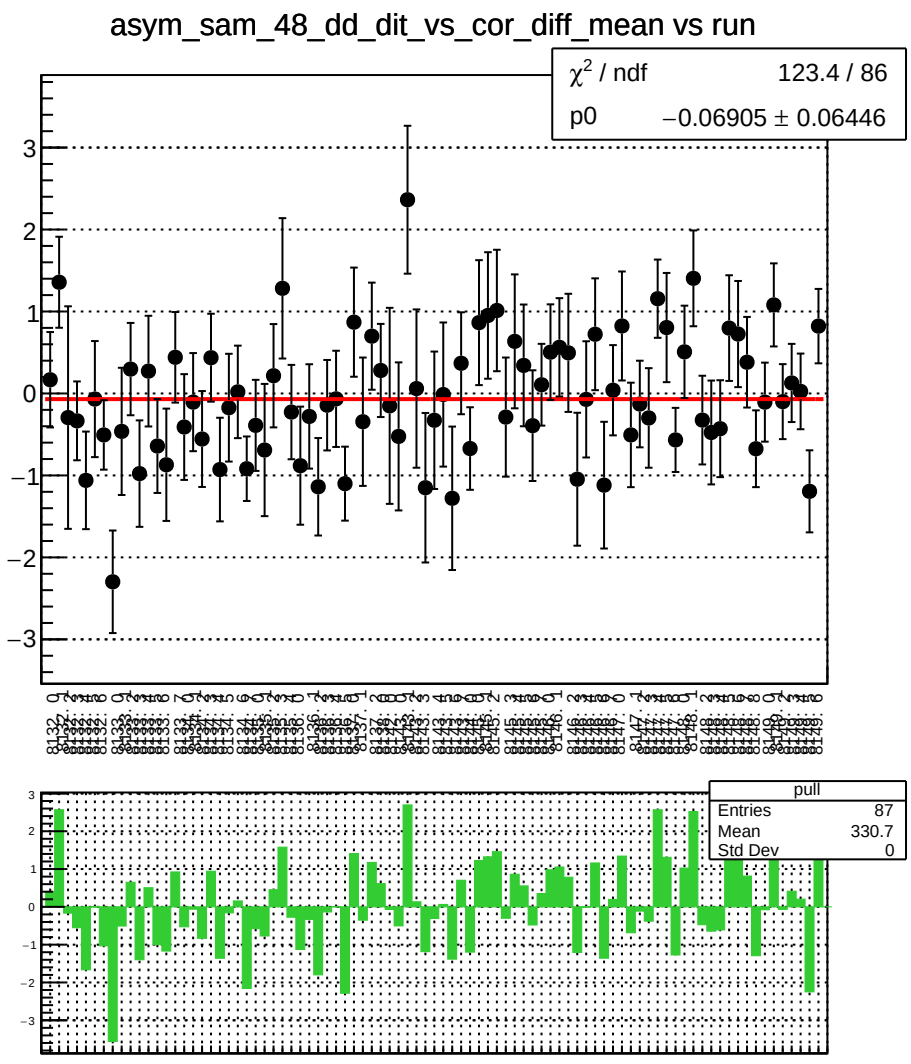

asym_sam_48_dd_mean vs run
χ² / ndf 90.28 / 86
p0 1771 ± 1871
×10³
pull
Entries 87
Mean −188.1
Std Dev 0

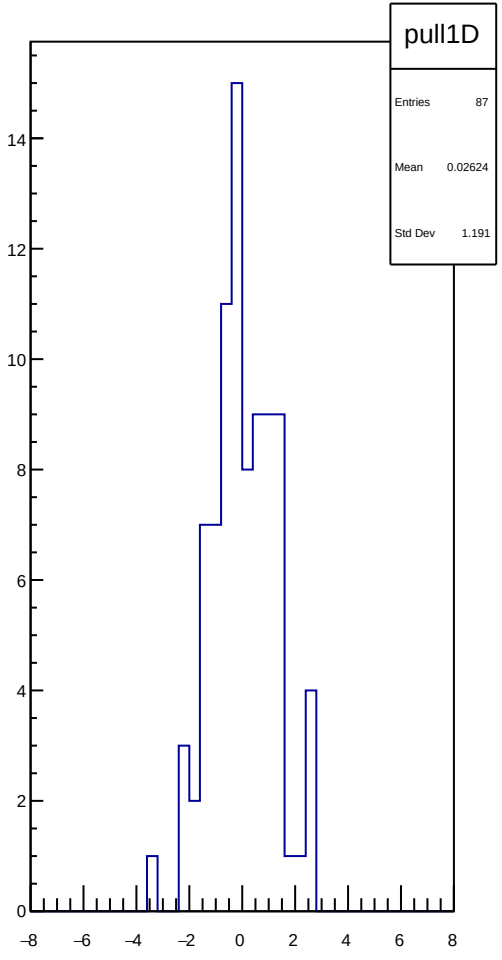

pull1D
Entries 87
Mean 0.02171
Std Dev 1.018

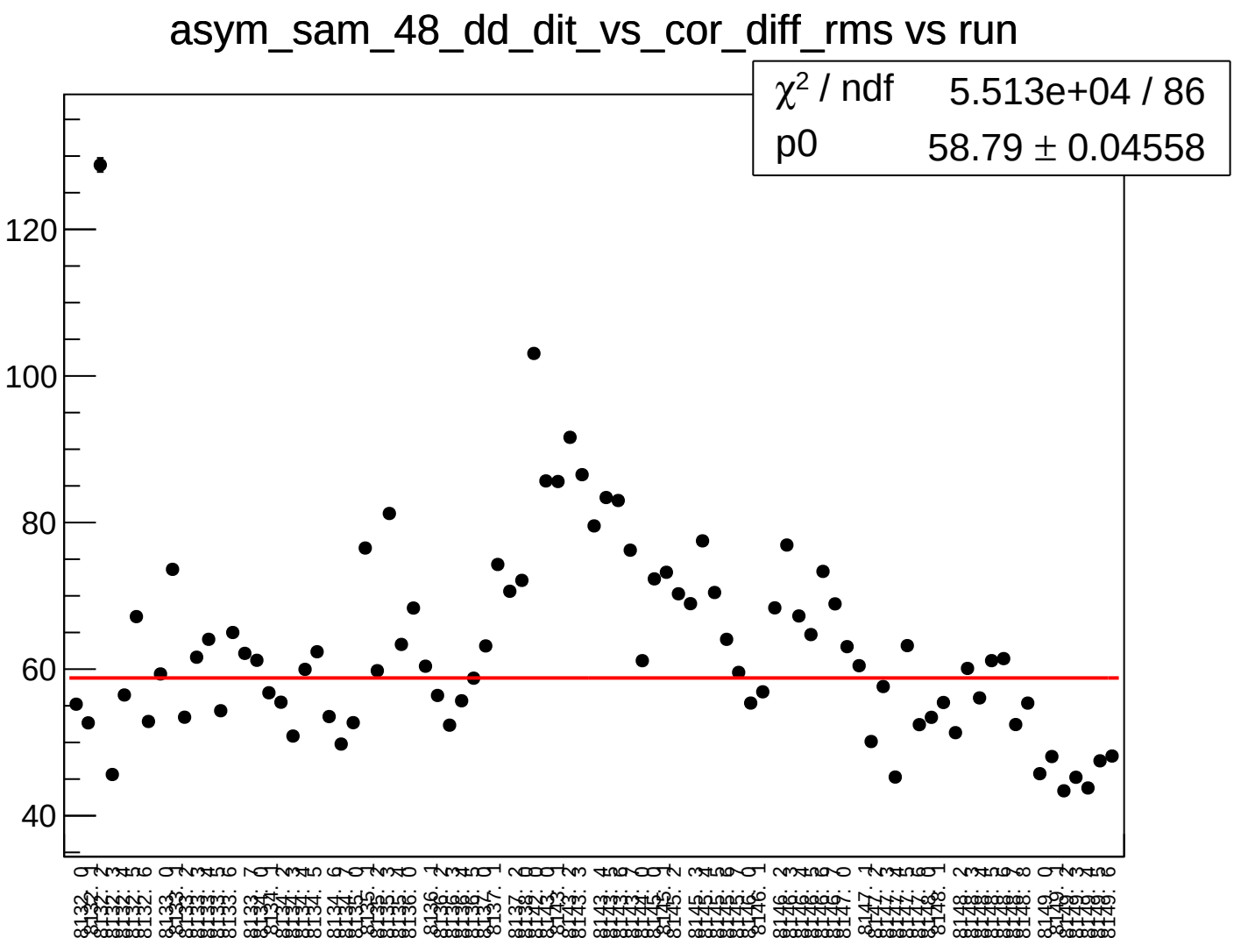

asym_sam_48_dd_rms vs run
χ² / ndf 1.893e+04 / 86
p0 1725 ± 1.323
3000
2800
2600
2400
2200
2000
1800
1600
1400

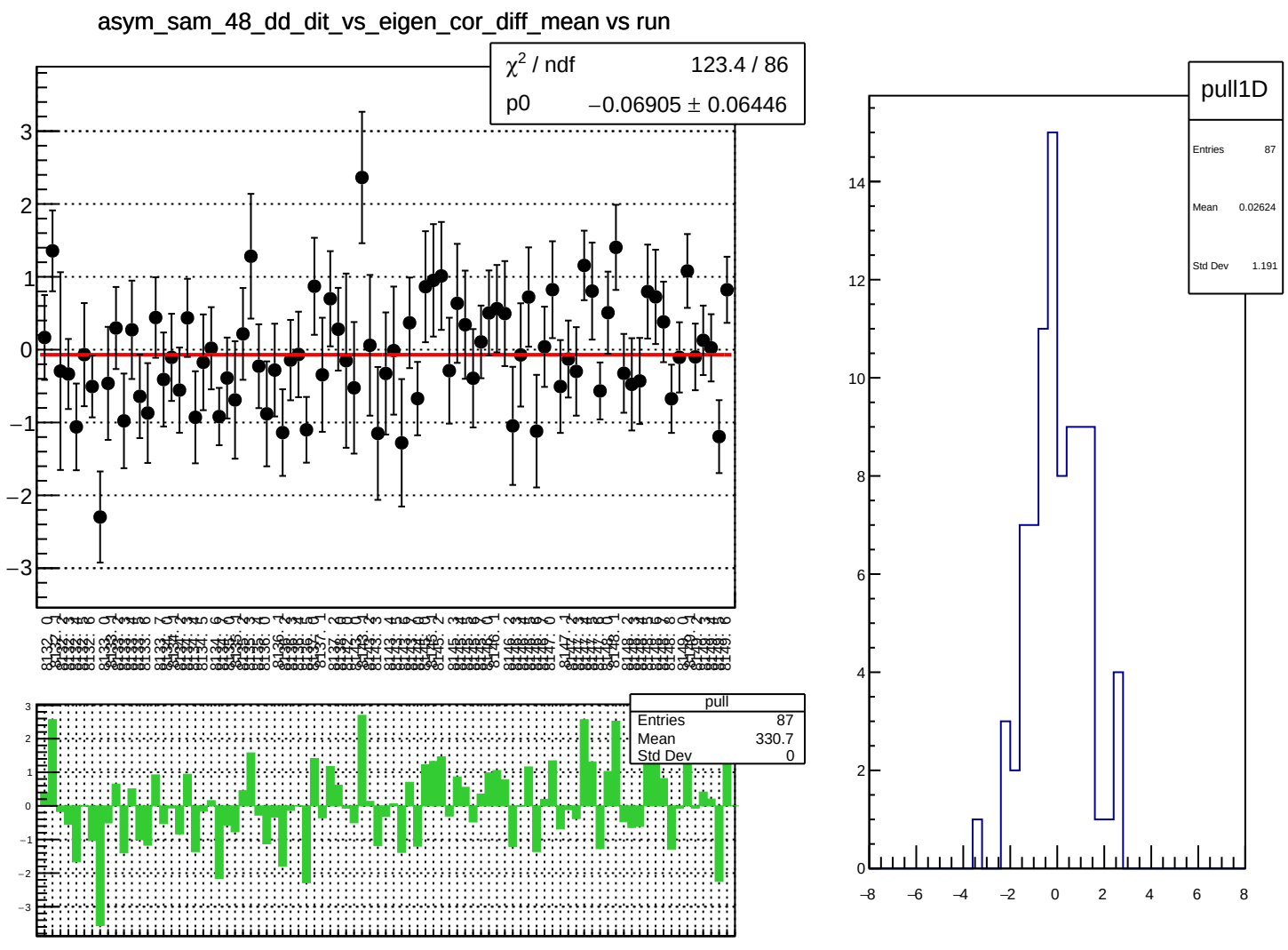

asym_sam_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 99.33 / 86
p0 −1.023e−13 ± 1.484e−13
pull
Entries 87
Mean 132.4
Std Dev 0
pull1D
Entries 87
Mean 0.01687
Std Dev 1.068

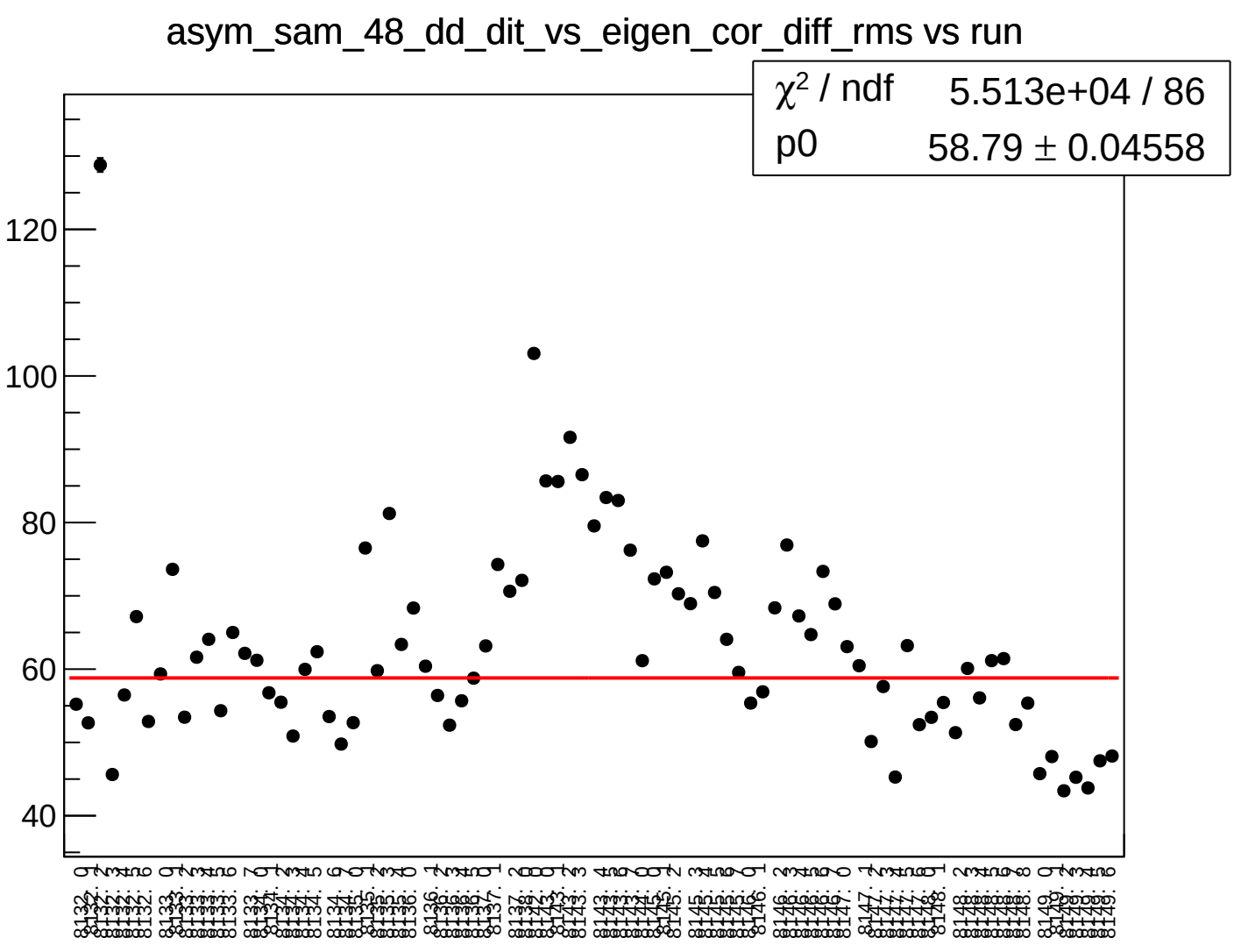

asym_sam_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.316e+05 / 86
p0 9.312e−11 ± 1.049e−13
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

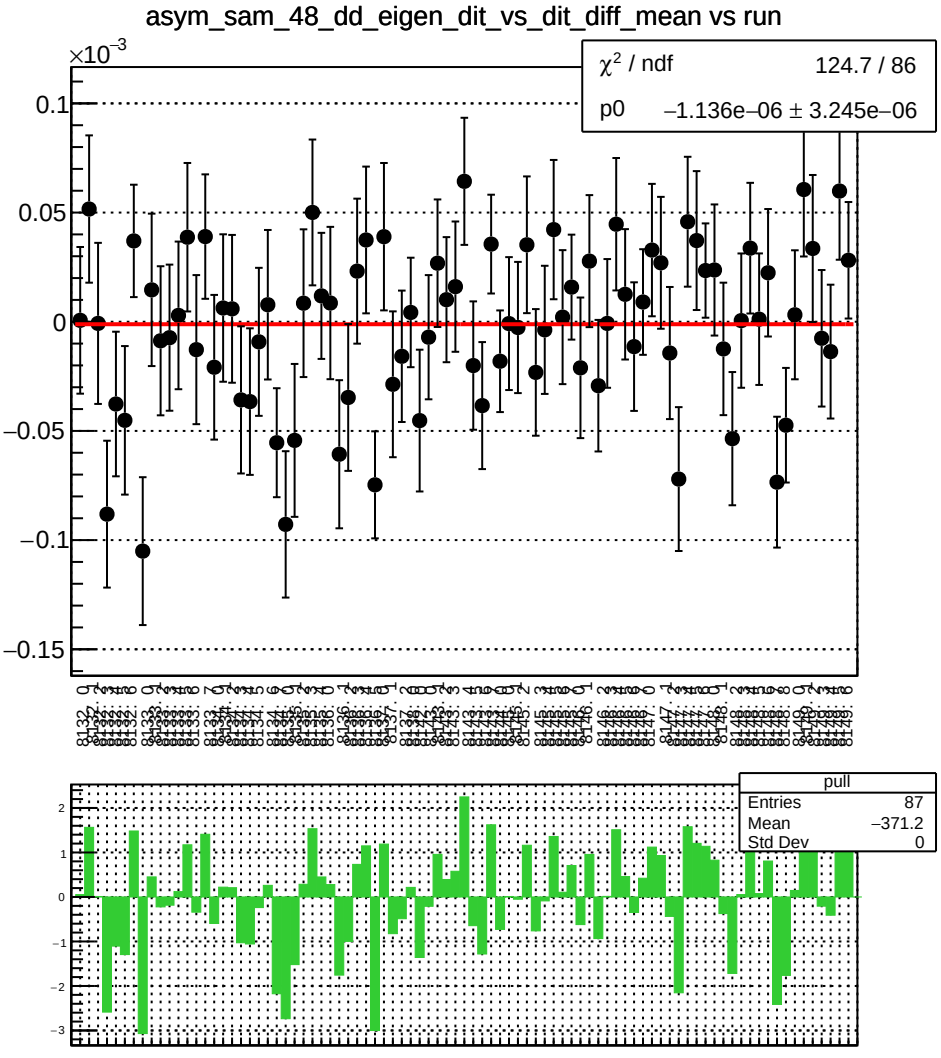

asym_sam_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 123.4 / 86
p0 −0.06905 ± 0.06446
pull
Entries 87
Mean 330.7
Std Dev 0

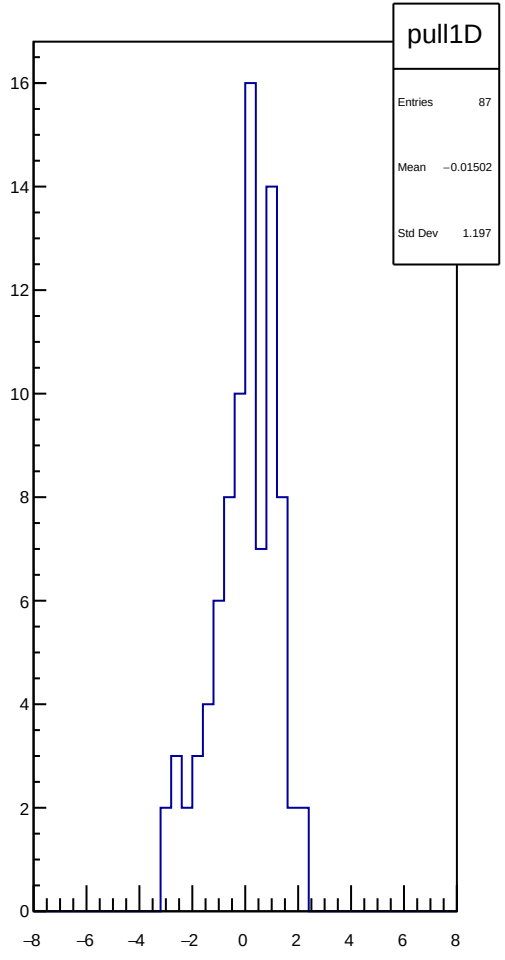

pull1D
Entries 87
Mean 0.02624
Std Dev 1.191

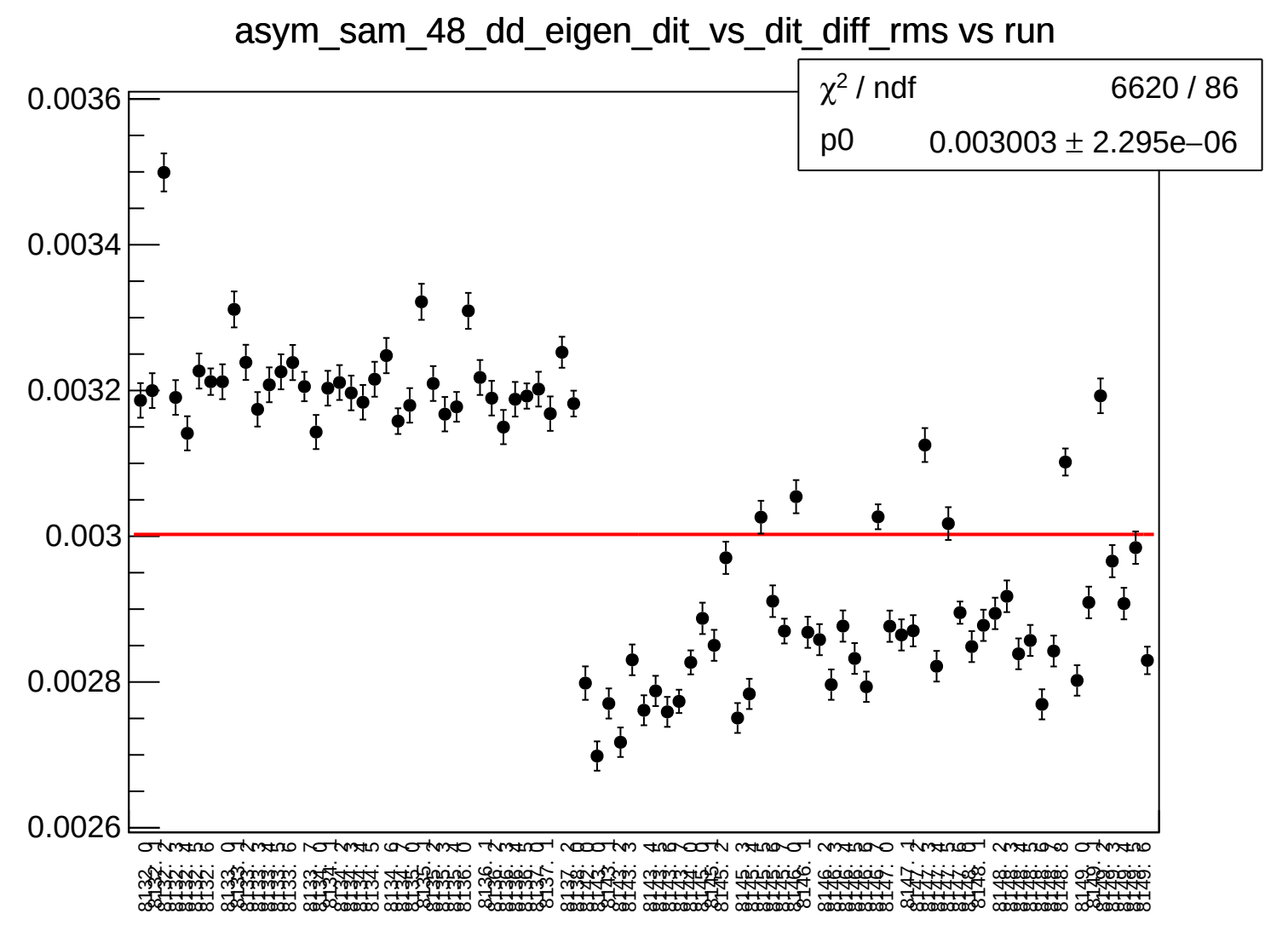

asym_sam_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.513e+04 / 86
p0 58.79 ± 0.04558
120
100
80
60
40

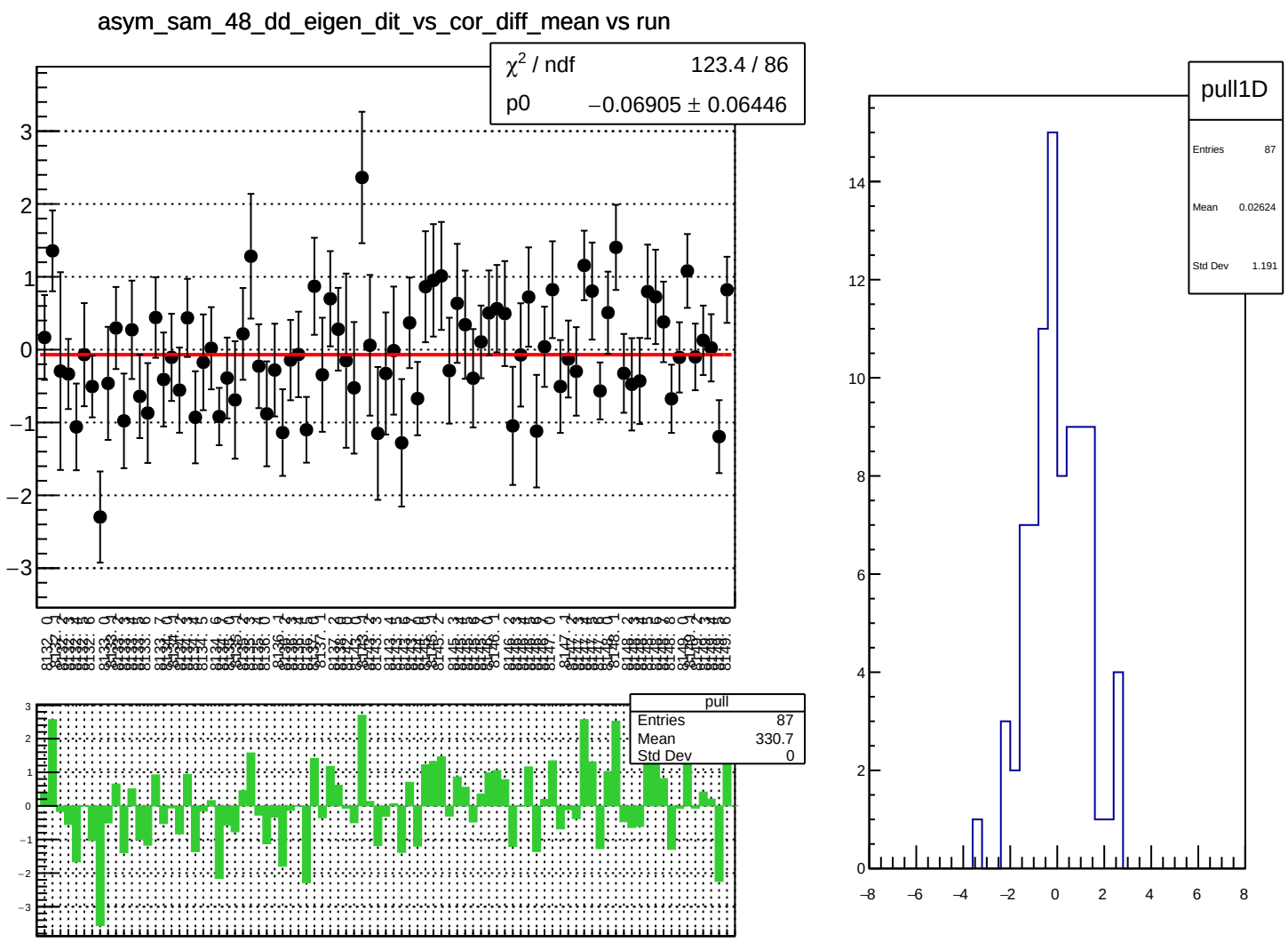

asym_sam_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 123.4 / 86
p0 −0.06905 ± 0.06446
pull
Entries 87
Mean 330.7
Std Dev 0
pull1D
Entries 87
Mean 0.02624
Std Dev 1.191

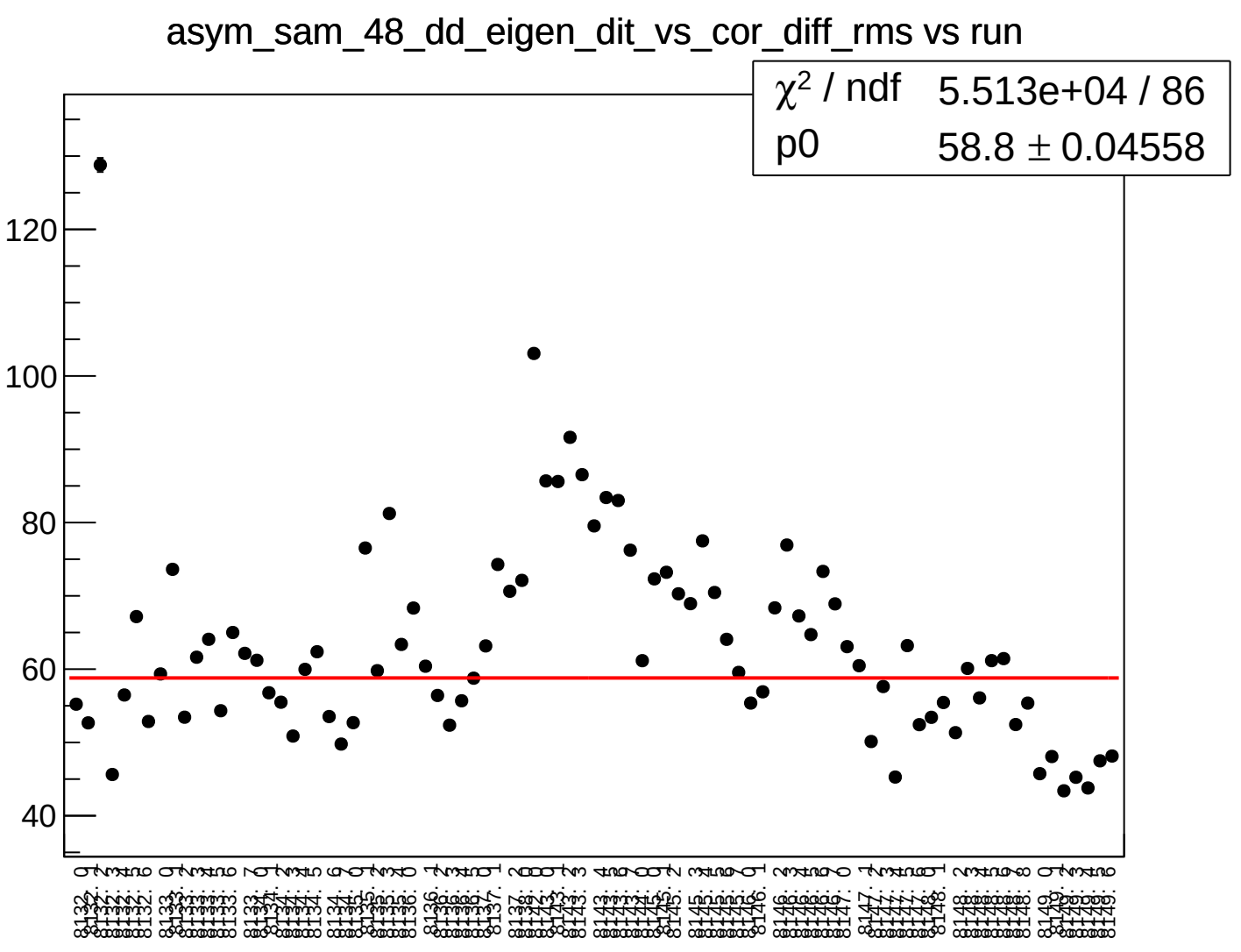

asym_sam_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.513e+04 / 86
p0 58.79 ± 0.04558
120
100
80
60
40

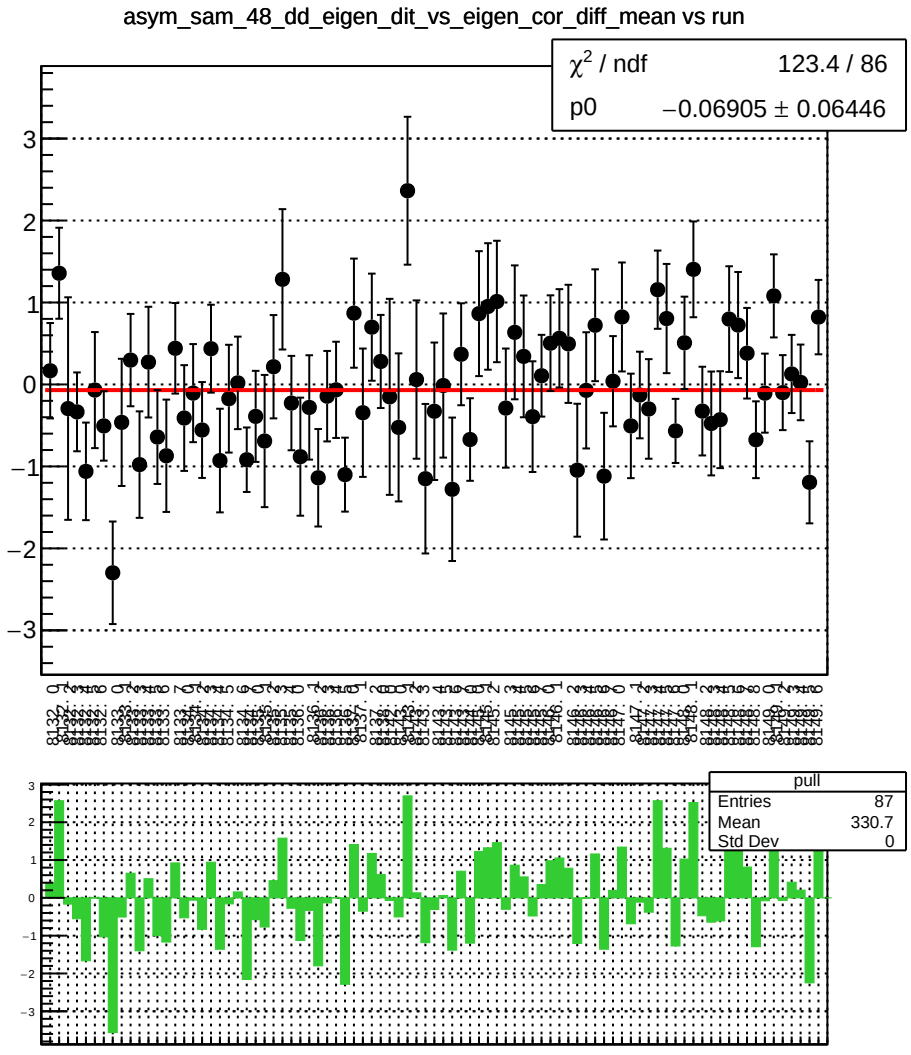

asym_sam_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 124.7 / 86
p0 −1.136e−06 ± 3.245e−06
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 87
Mean −371.2
Std Dev 0
2
1
0
−1
−2
−3

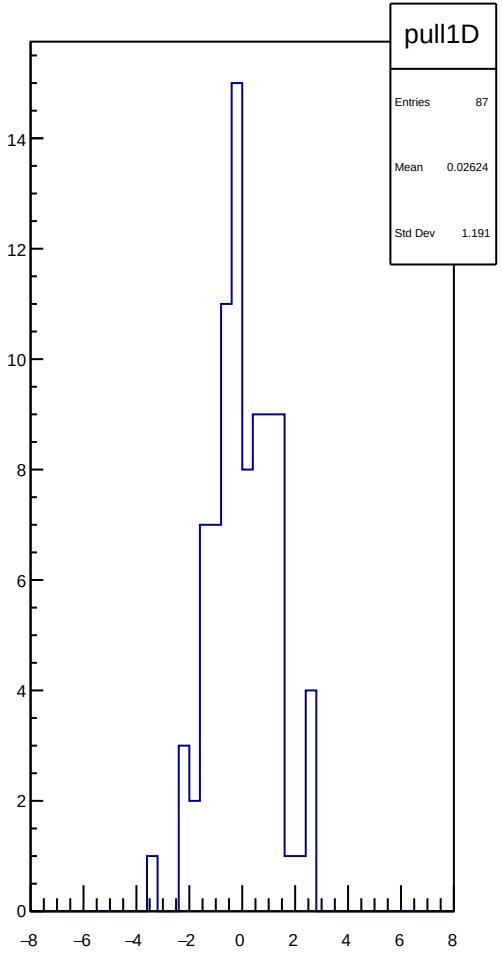

pull1D
Entries 87
Mean −0.01502
Std Dev 1.197
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

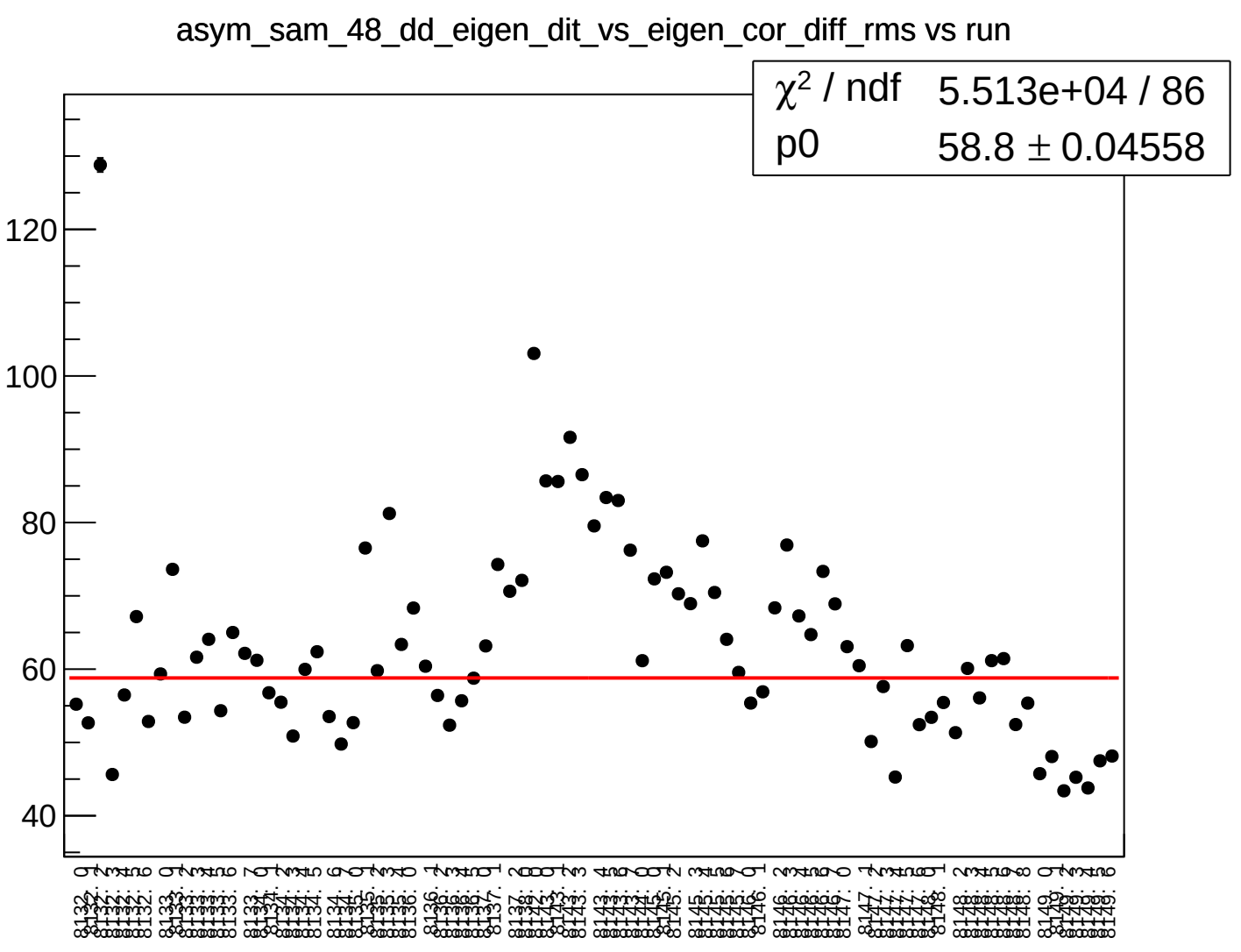

asym_sam_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6620 / 86
p0 0.003003 ± 2.295e−06
0.0036
0.0034
0.0032
0.003
0.0028
0.0026

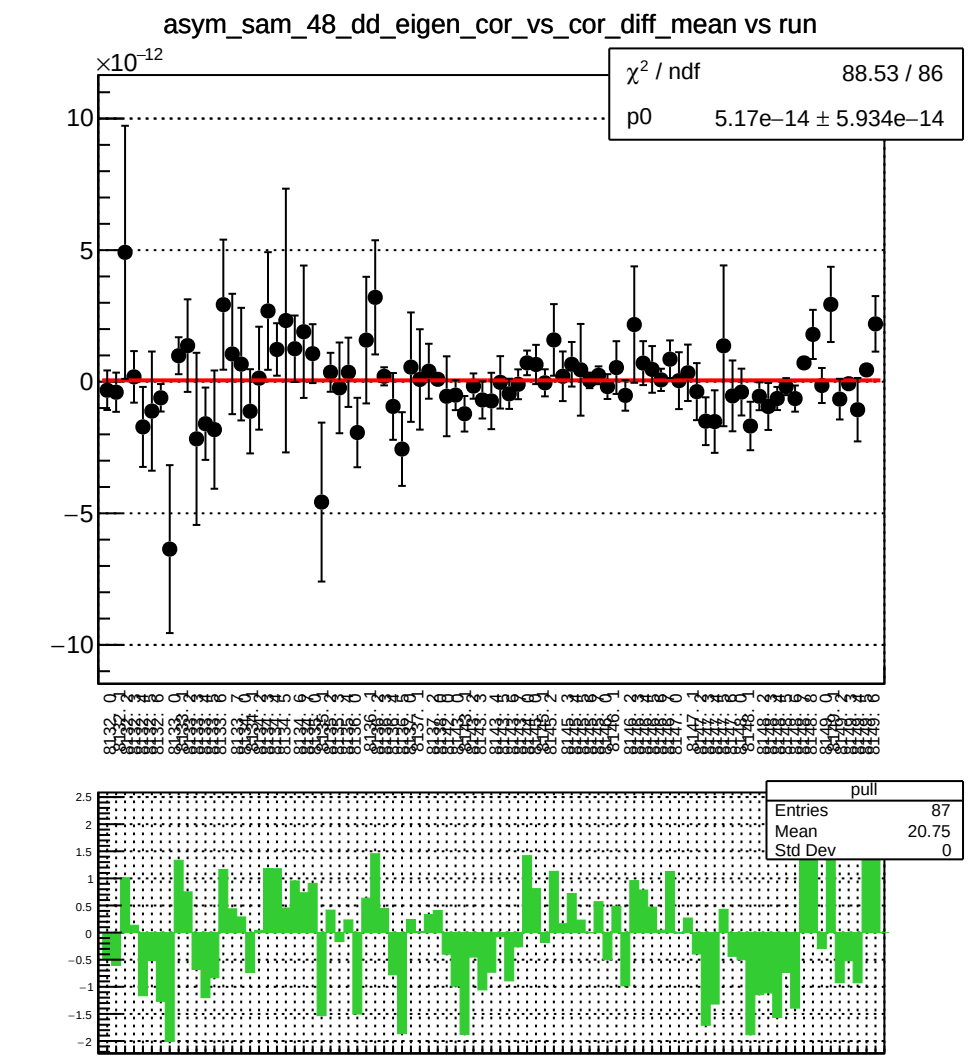

asym_sam_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 123.4 / 86
p0 −0.06905 ± 0.06446
pull
Entries 87
Mean 330.7
Std Dev 0
pull1D
Entries 87
Mean 0.02624
Std Dev 1.191

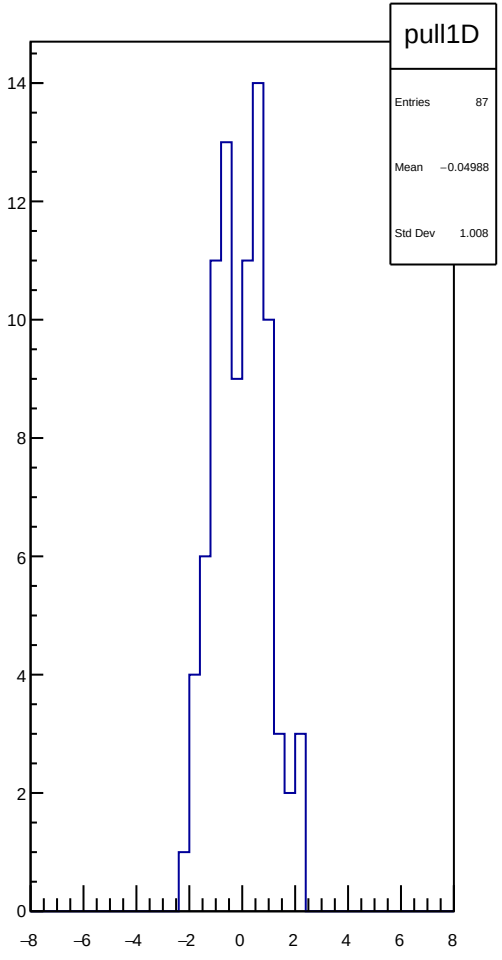

asym_sam_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.513e+04 / 86
p0 58.8 ± 0.04558
120
100
80
60
40

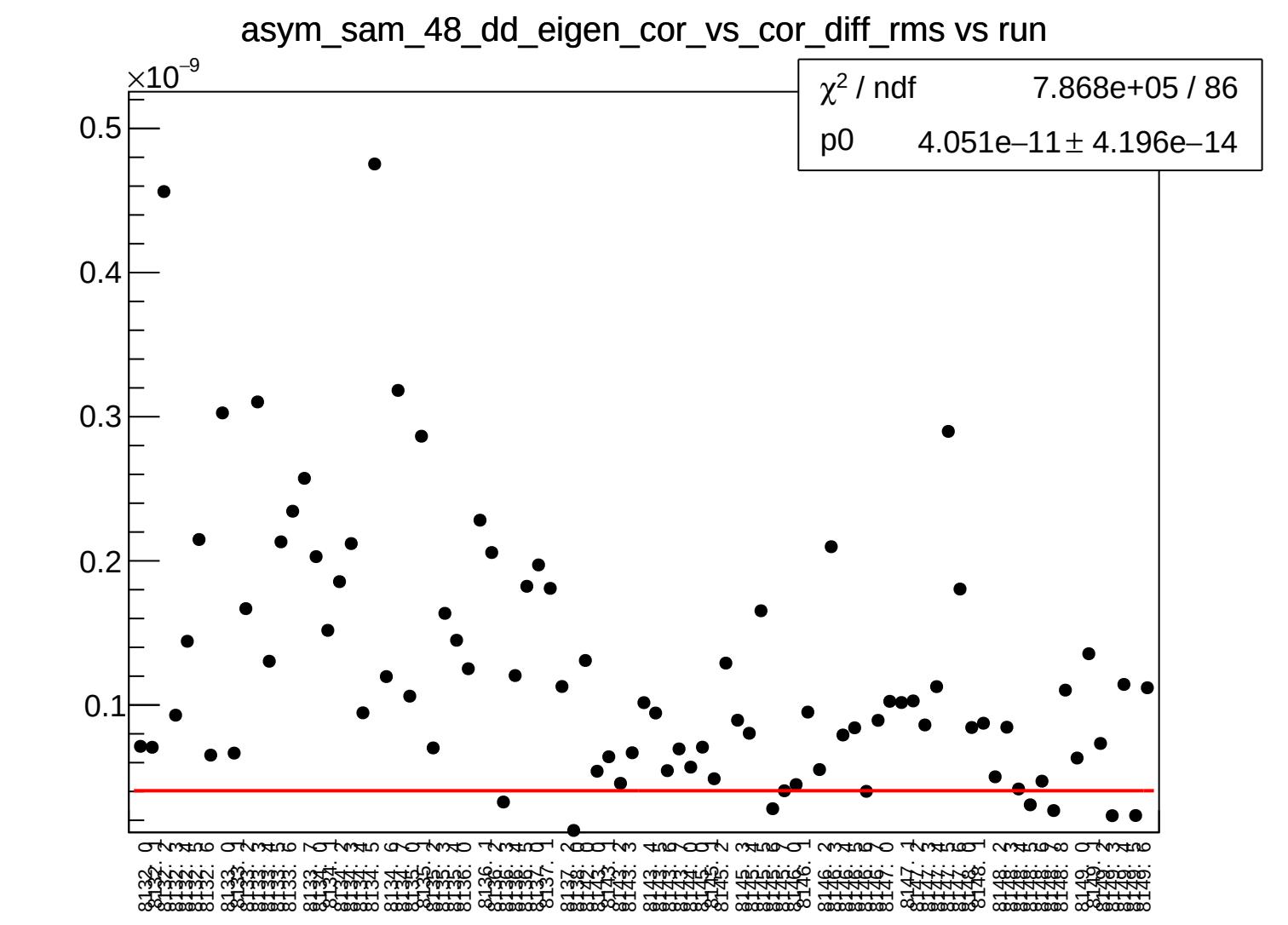

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 123.4 / 86
p0 −0.06905 ± 0.06446
pull
Entries 87
Mean 330.7
Std Dev 0

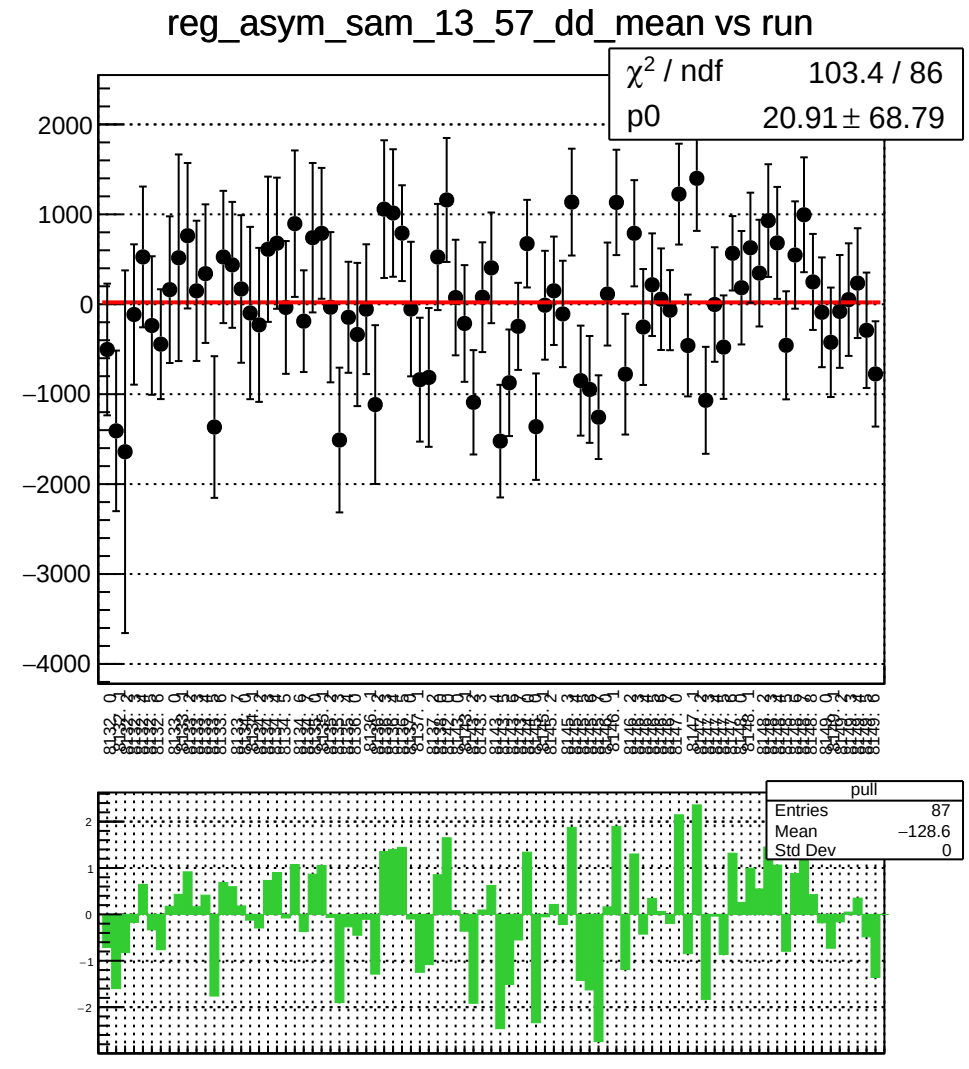

pull1D
Entries 87
Mean 0.02624
Std Dev 1.191

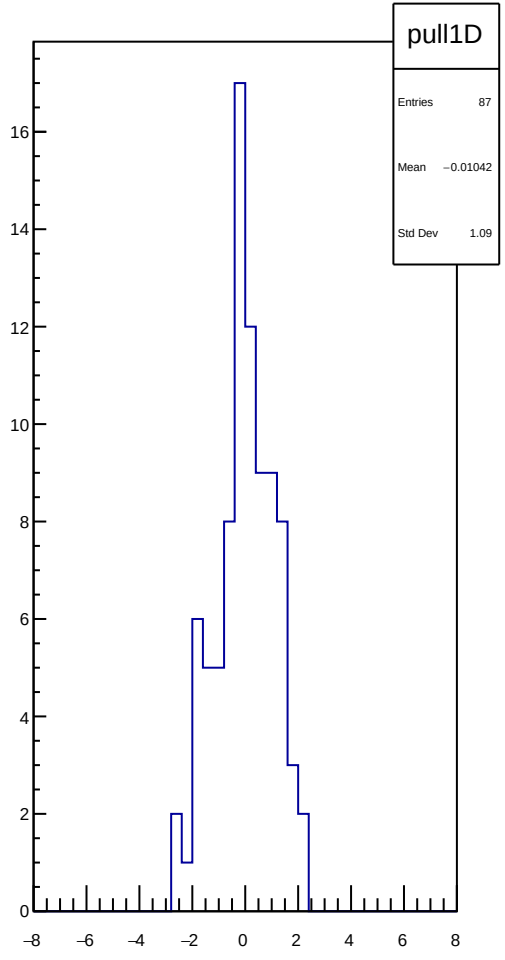

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.513e+04 / 86
p0 58.8 ± 0.04558
120
100
80
60
40

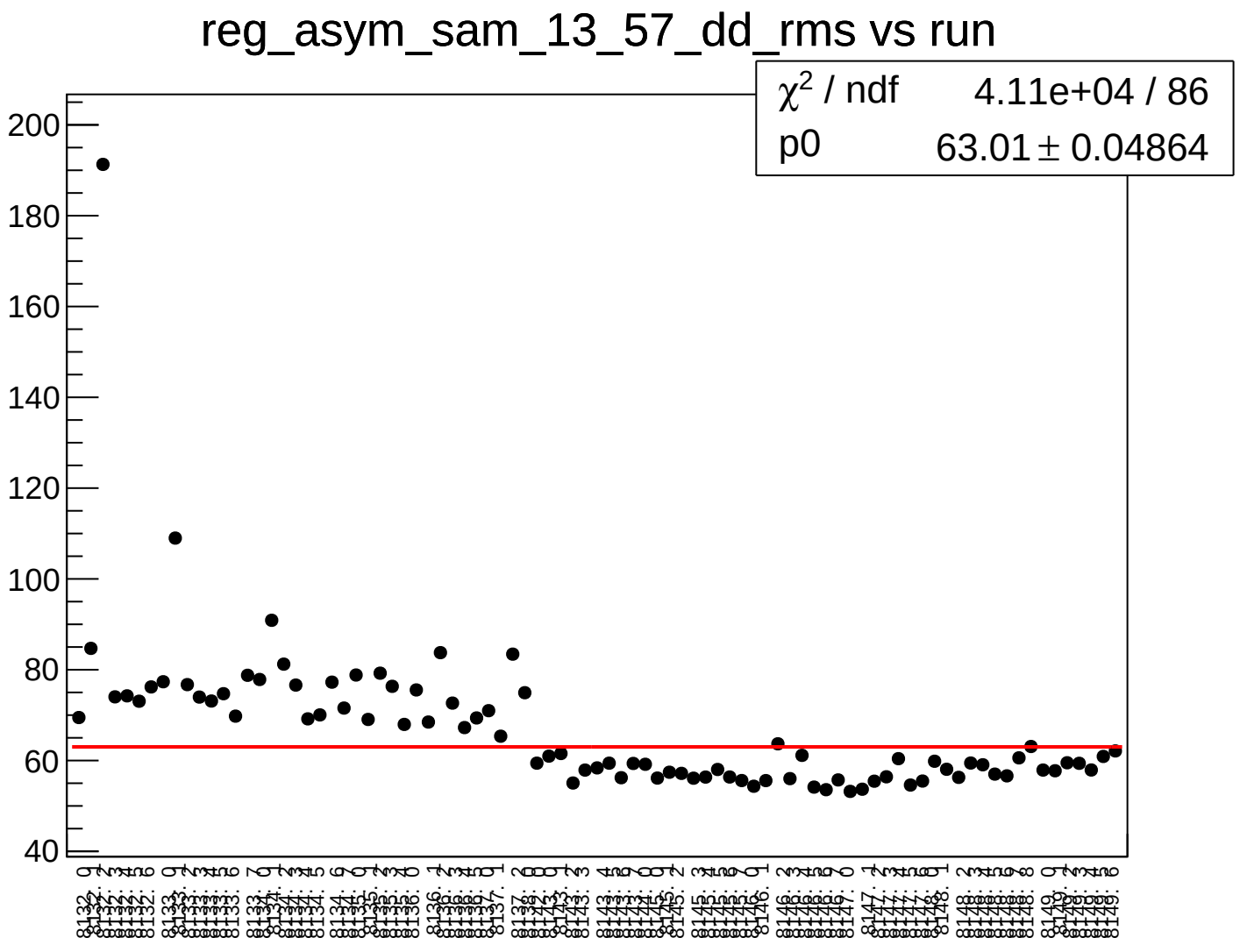

asym_sam_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.53 / 86
p0 5.17e−14 ± 5.934e−14
pull
Entries 87
Mean 20.75
Std Dev 0

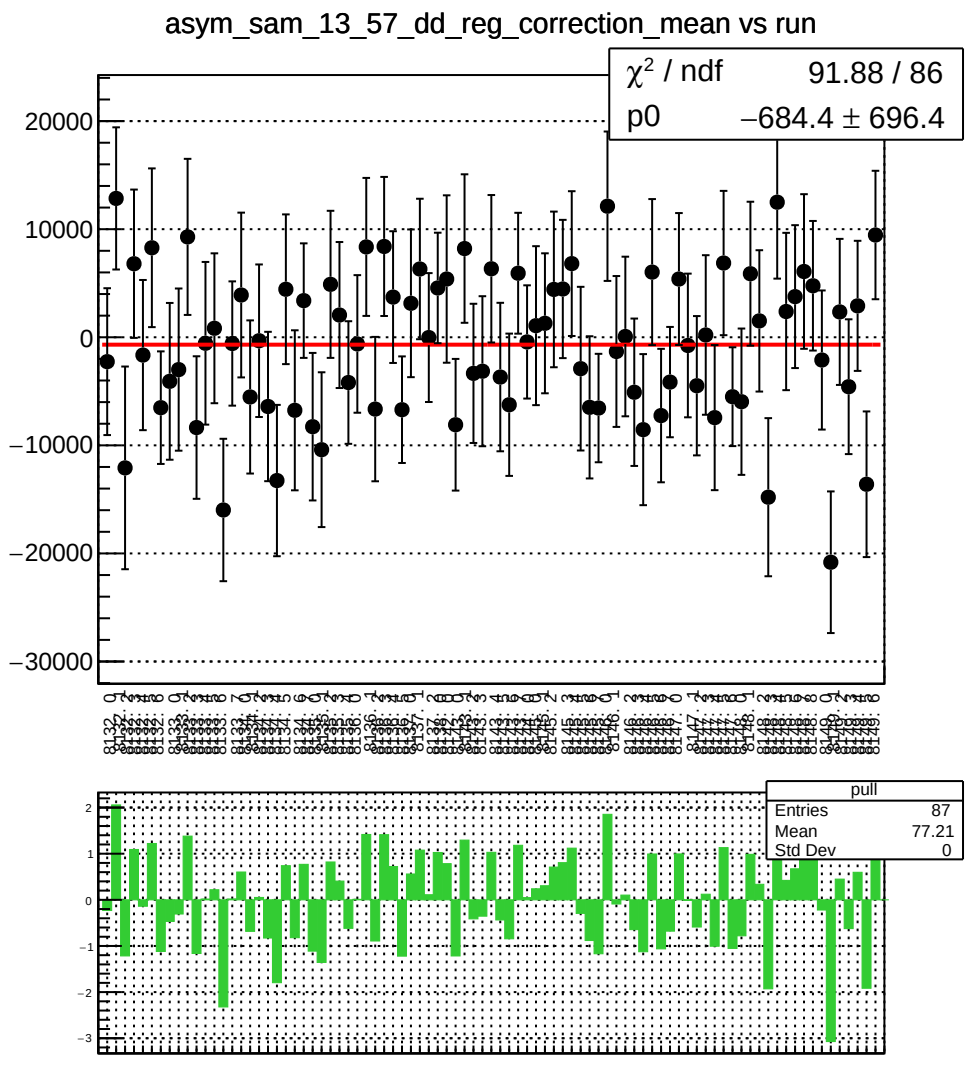

pull1D
Entries 87
Mean −0.04988
Std Dev 1.008

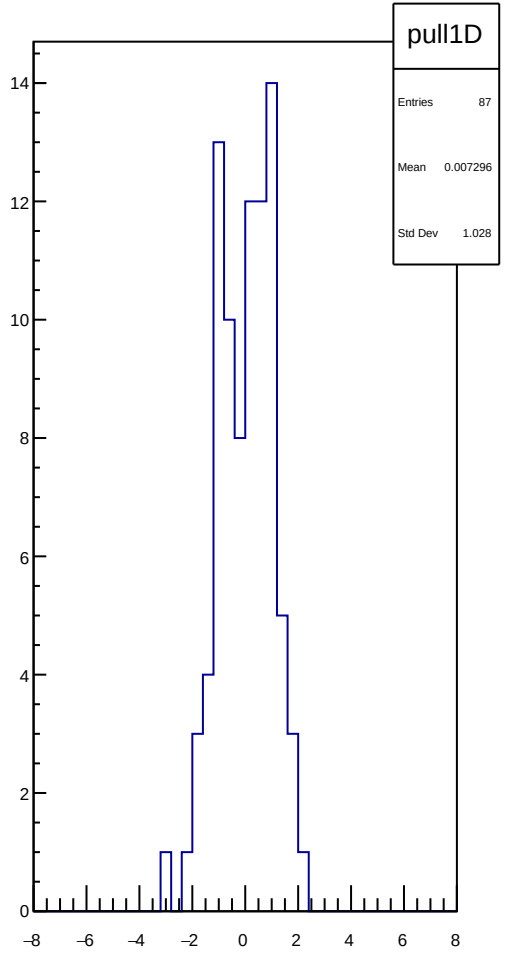

asym_sam_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.868e+05 / 86
p0 4.051e−11 ± 4.196e−14
0.5
0.4
0.3
0.2
0.1

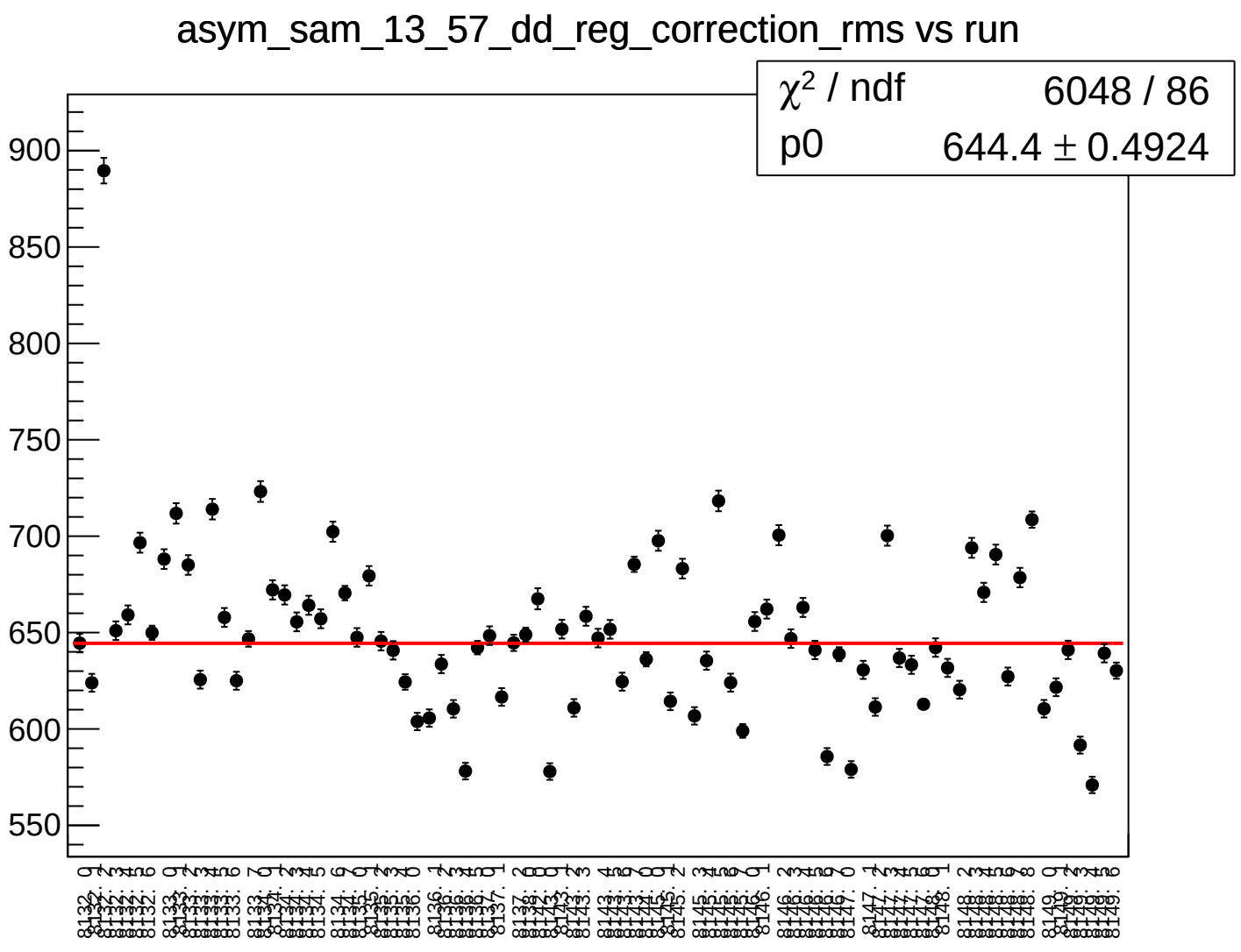

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 103.4 / 86
p0 20.91 ± 68.79
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 87
Mean −128.6
Std Dev 0
2
1
0
−1
−2

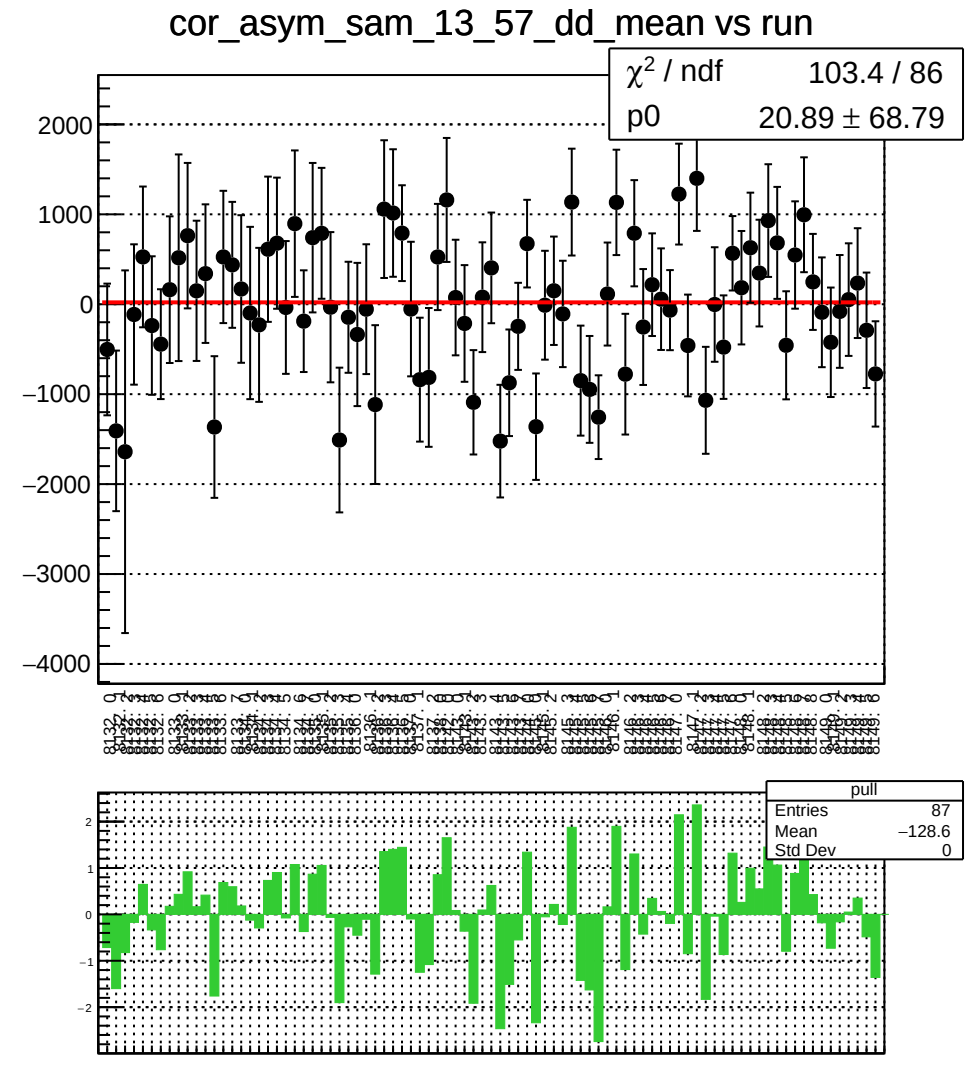

pull1D
Entries 87
Mean −0.01042
Std Dev 1.09
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

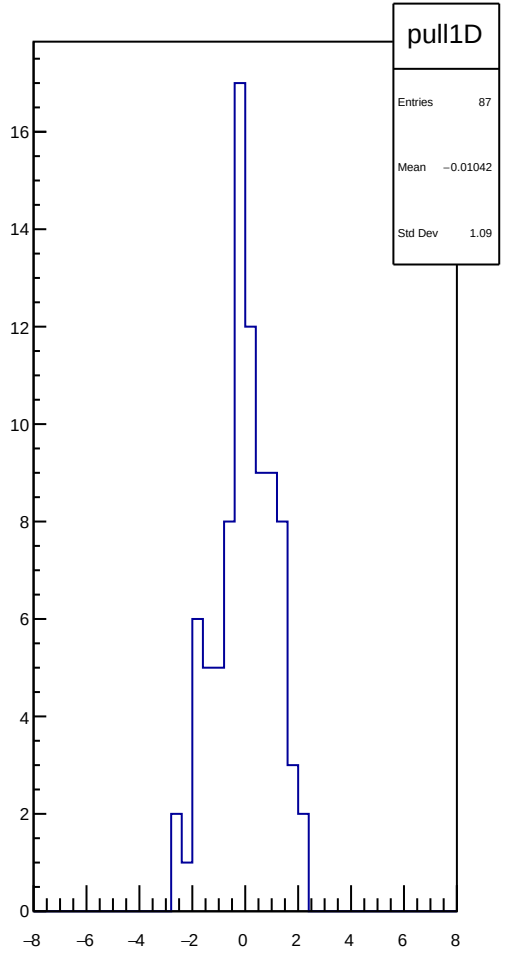

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 4.11e+04 / 86
p0 63.01 ± 0.04864
200
180
160
140
120
100
80
60
40

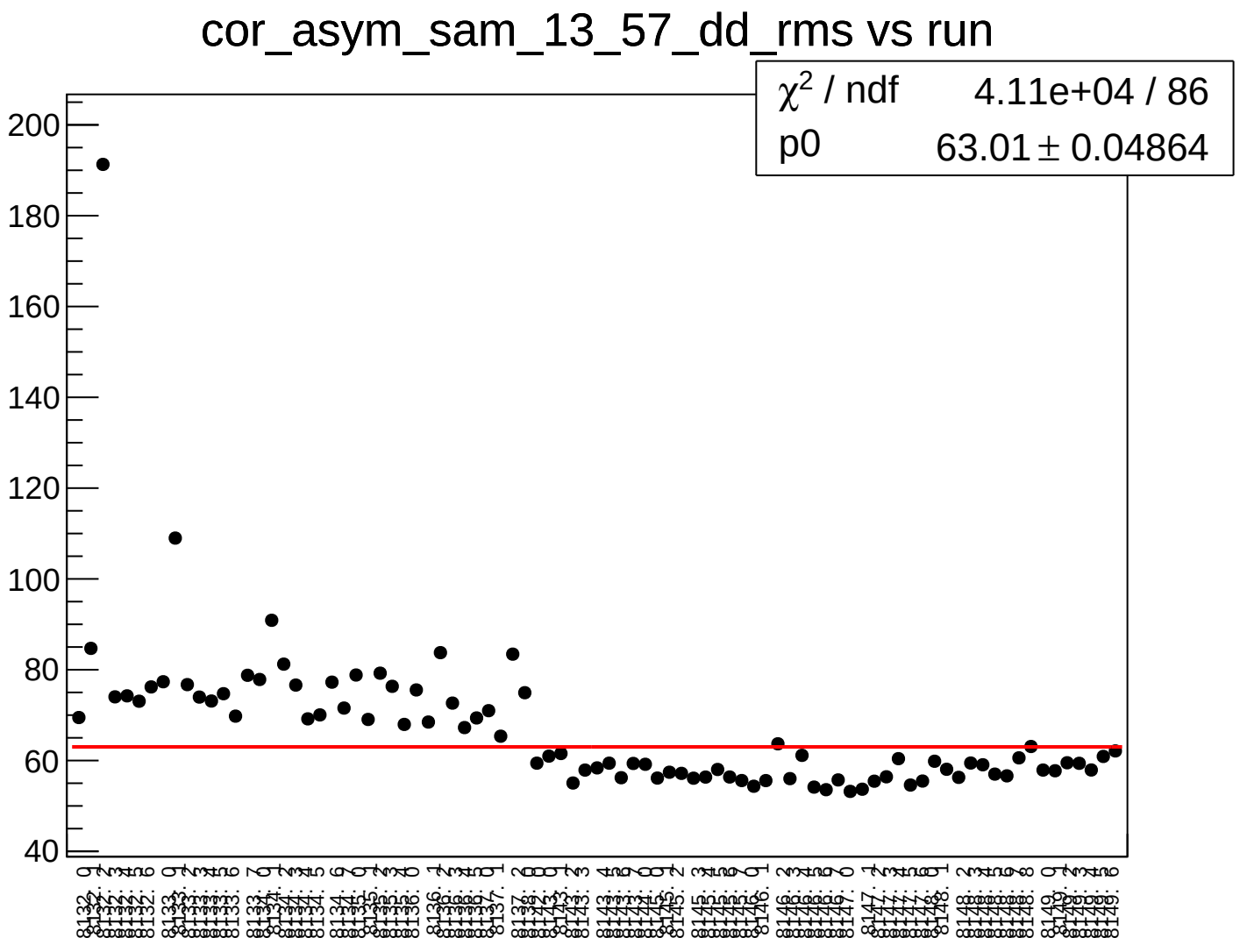

asym_sam_13_57_dd_reg_correction_mean vs run
χ² / ndf 91.88 / 86
p0 −684.4 ± 696.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean 77.21
Std Dev 0
2
1
0
−1
−2
−3

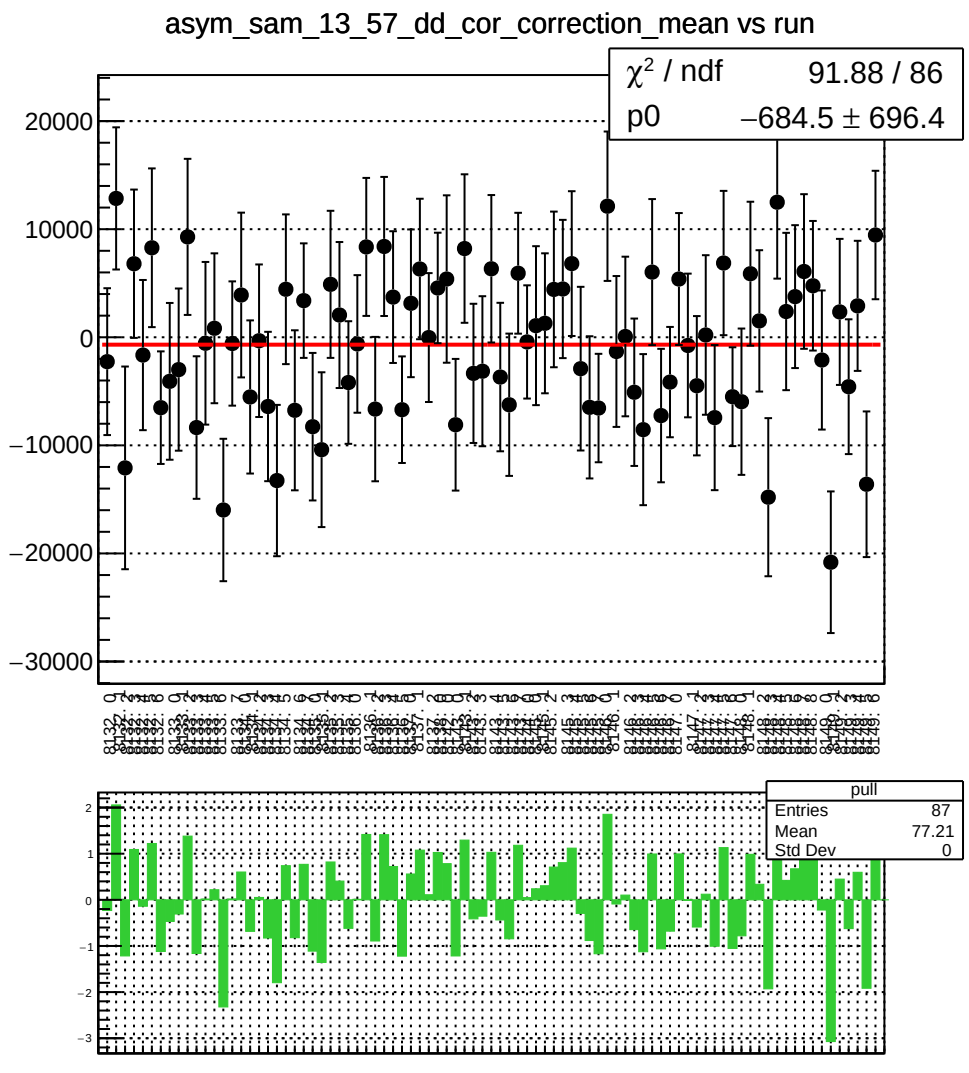

pull1D
Entries 87
Mean 0.007296
Std Dev 1.028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

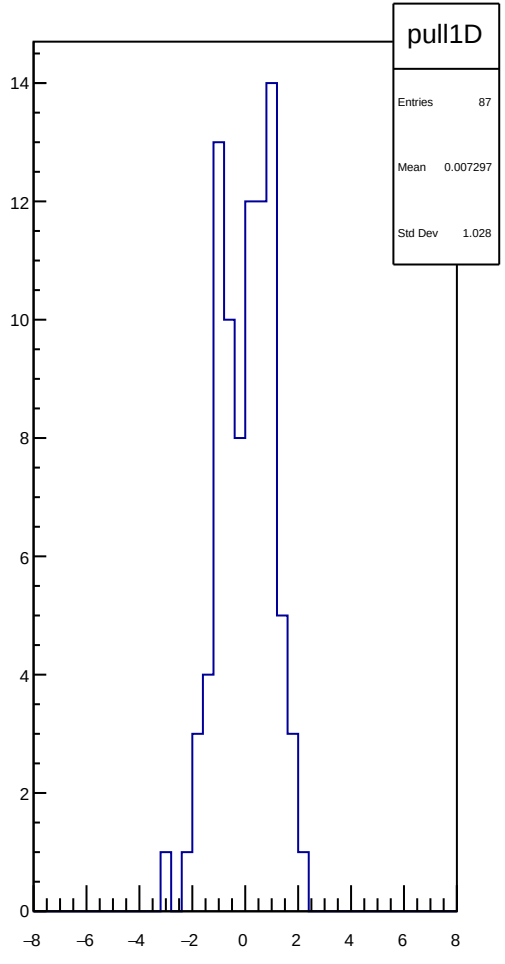

asym_sam_13_57_dd_reg_correction_rms vs run
χ² / ndf 6048 / 86
p0 644.4 ± 0.4924
900
850
800
750
700
650
600
550

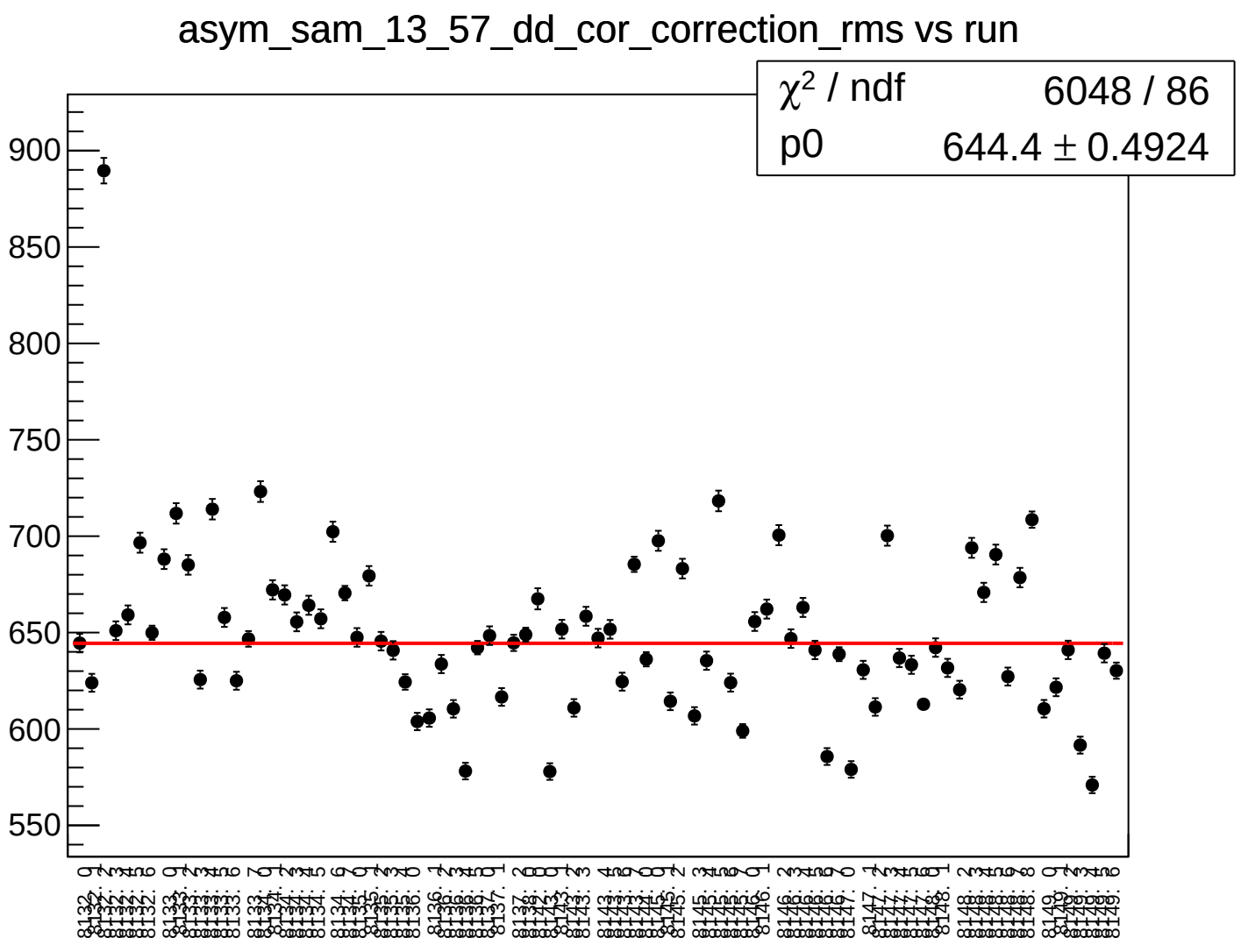

cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 103.4 / 86
p0 20.89 ± 68.79
pull
Entries 87
Mean −128.6
Std Dev 0

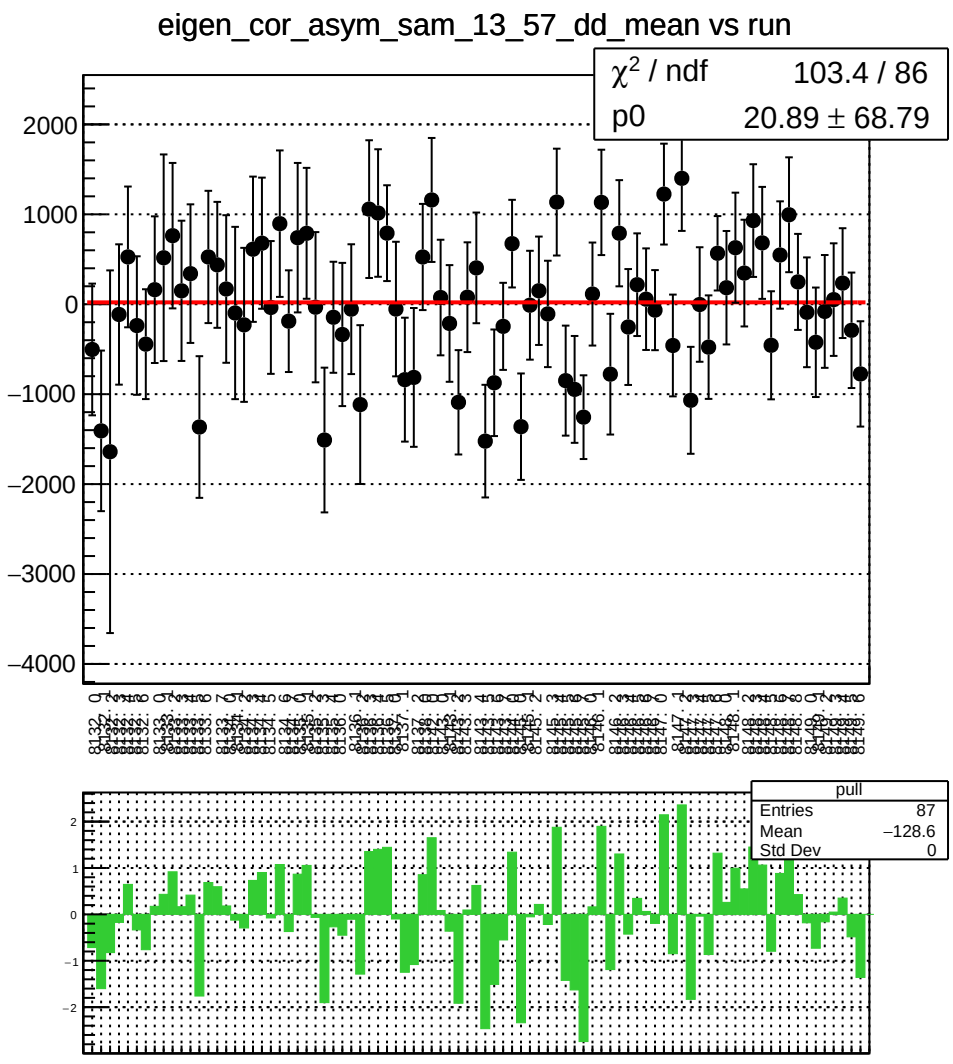

pull1D
Entries 87
Mean −0.01042
Std Dev 1.09

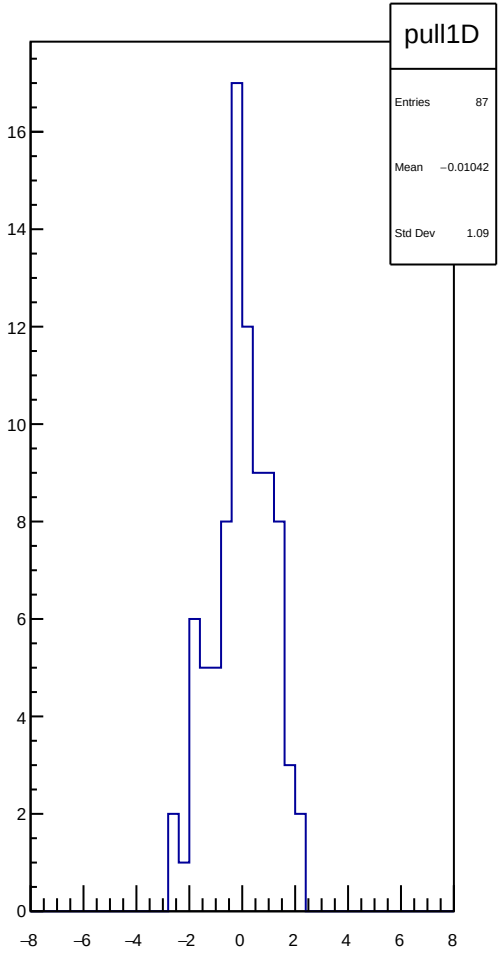

cor_asym_sam_13_57_dd_rms vs run
χ^2 / ndf 4.11e+04 / 86
p0 63.01 ± 0.04864
200
180
160
140
120
100
80
60
40

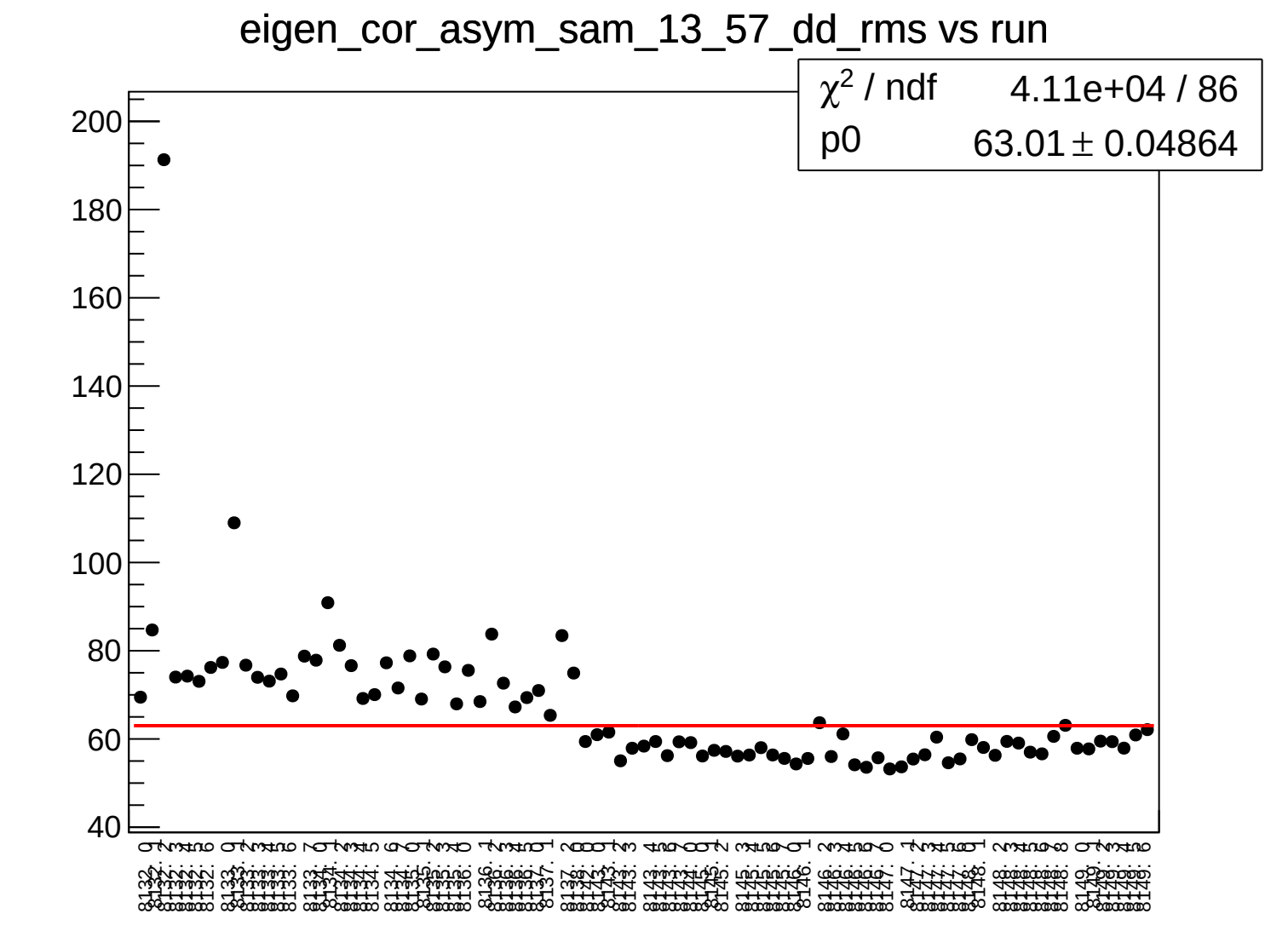

asym_sam_13_57_dd_cor_correction_mean vs run
χ² / ndf 91.88 / 86
p0 −684.5 ± 696.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean 77.21
Std Dev 0
2
1
0
−1
−2
−3

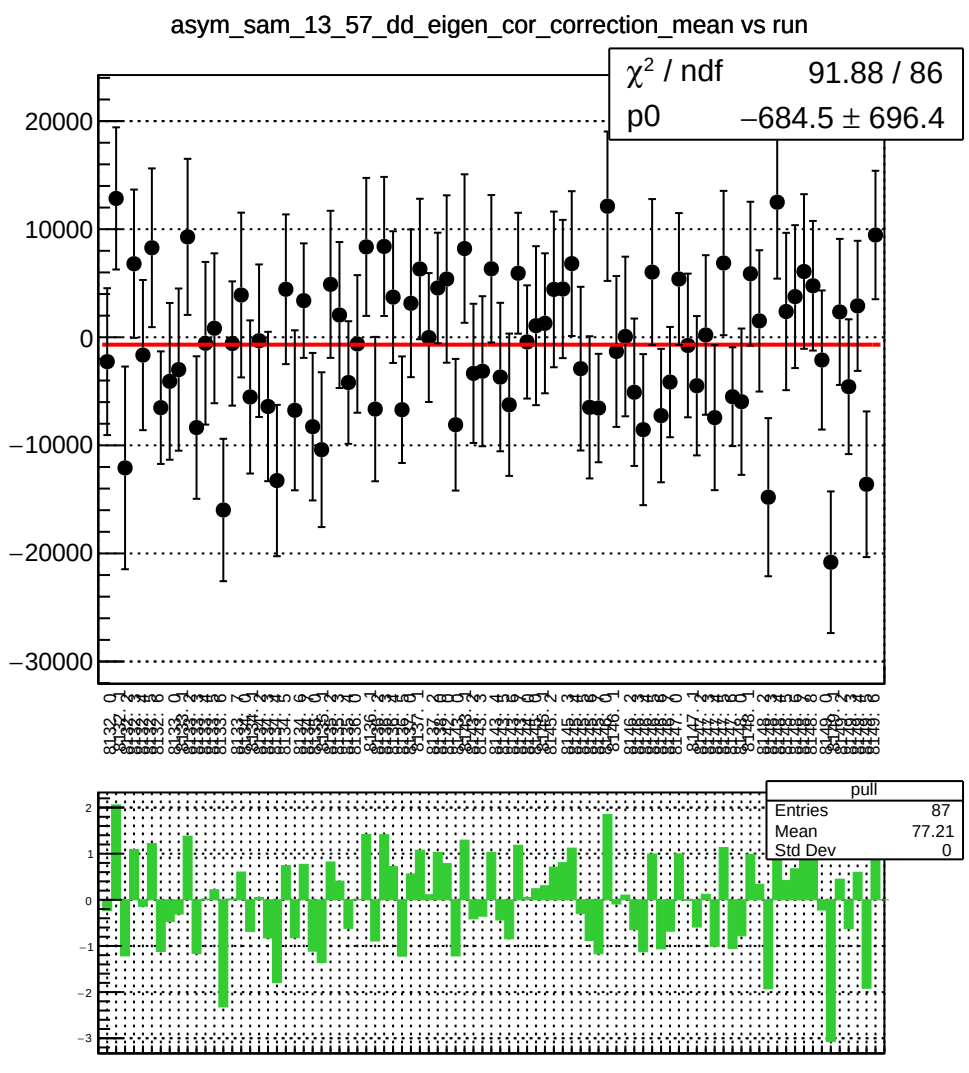

pull1D
Entries 87
Mean 0.007297
Std Dev 1.028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

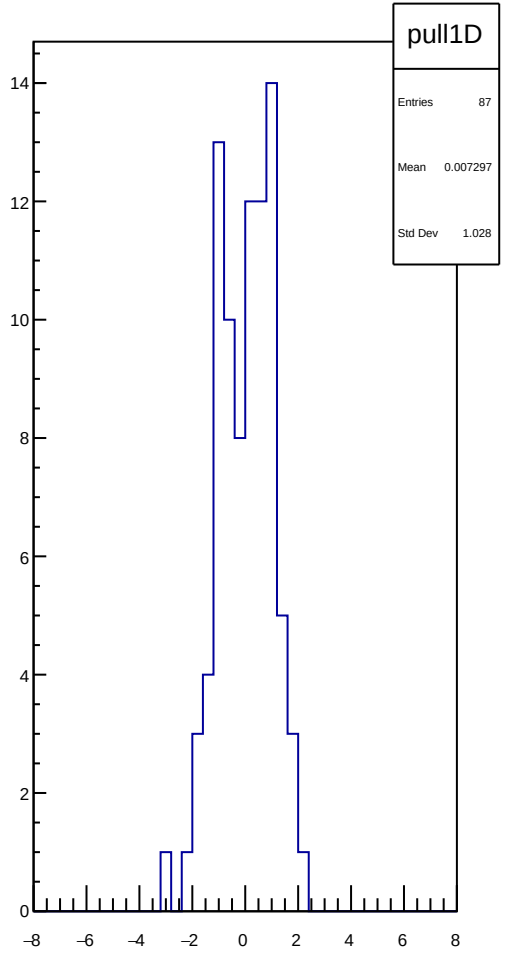

asym_sam_13_57_dd_cor_correction_rms vs run
χ² / ndf 6048 / 86
p0 644.4 ± 0.4924
900
850
800
750
700
650
600
550

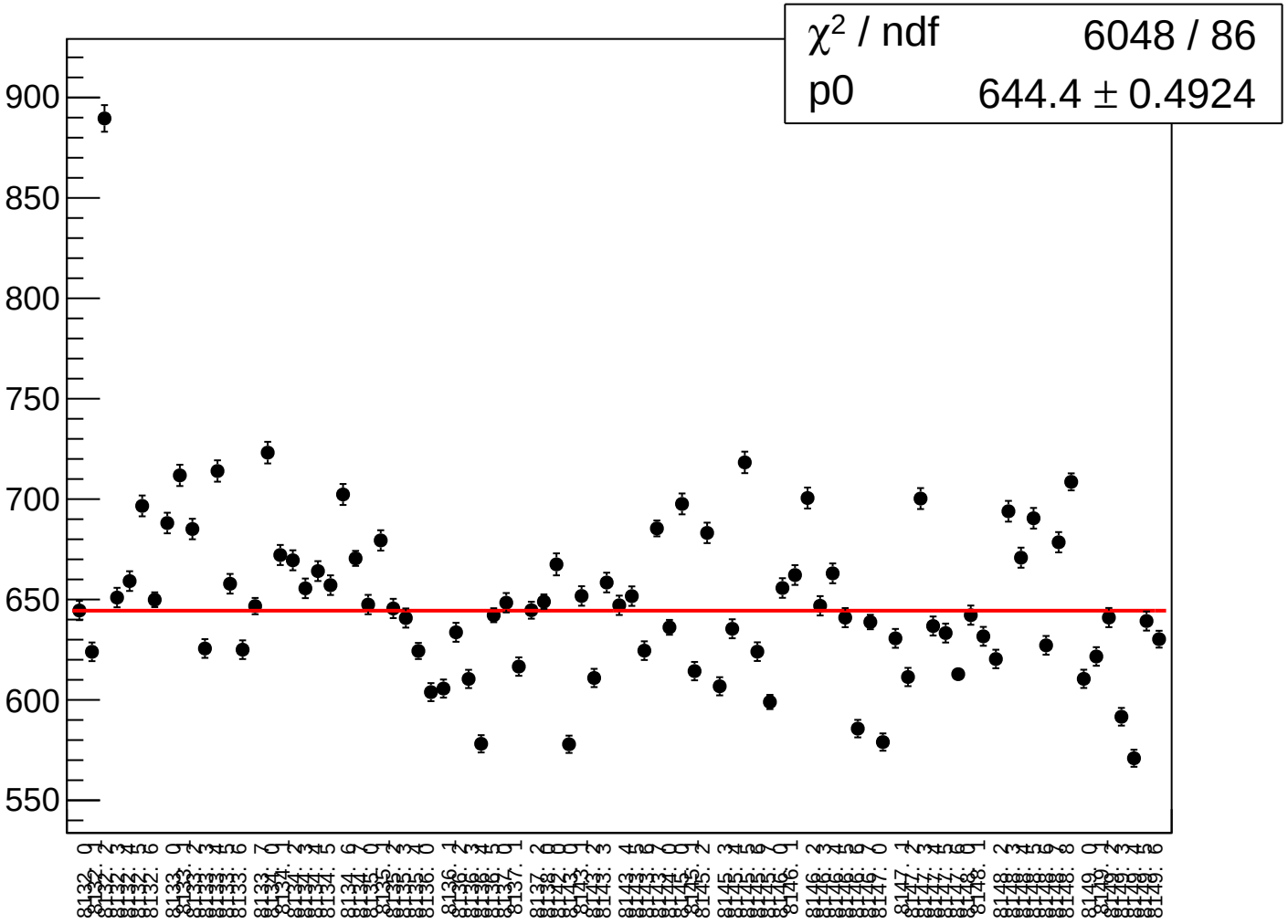

eigen_cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 103.4 / 86
p0 20.89 ± 68.79
pull
Entries 87
Mean −128.6
Std Dev 0

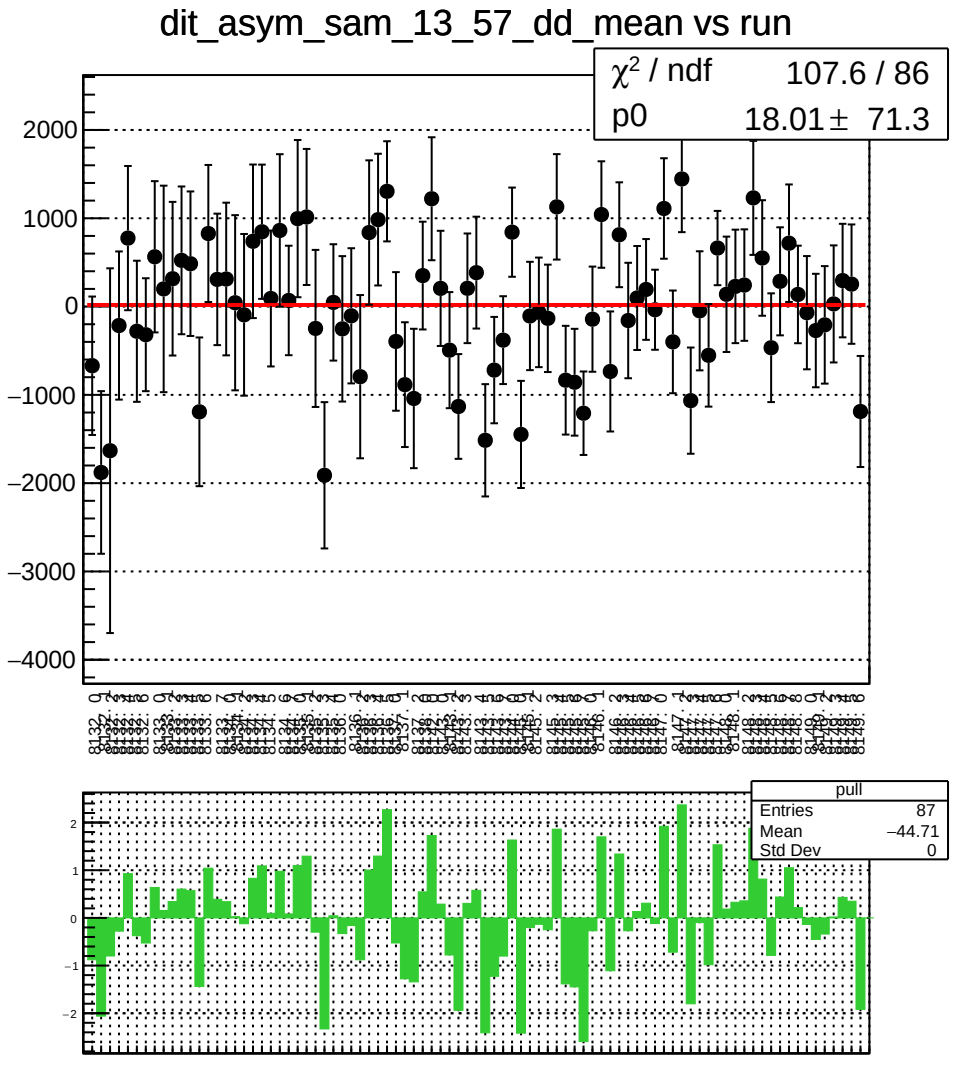

pull1D
Entries 87
Mean −0.01042
Std Dev 1.09

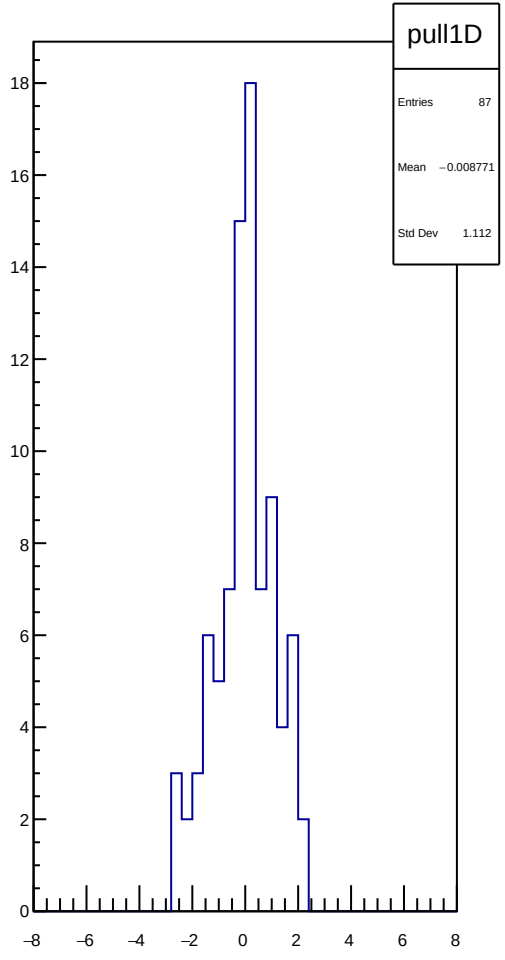

eigen_cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 4.11e+04 / 86
p0 63.01 ± 0.04864
200
180
160
140
120
100
80
60
40

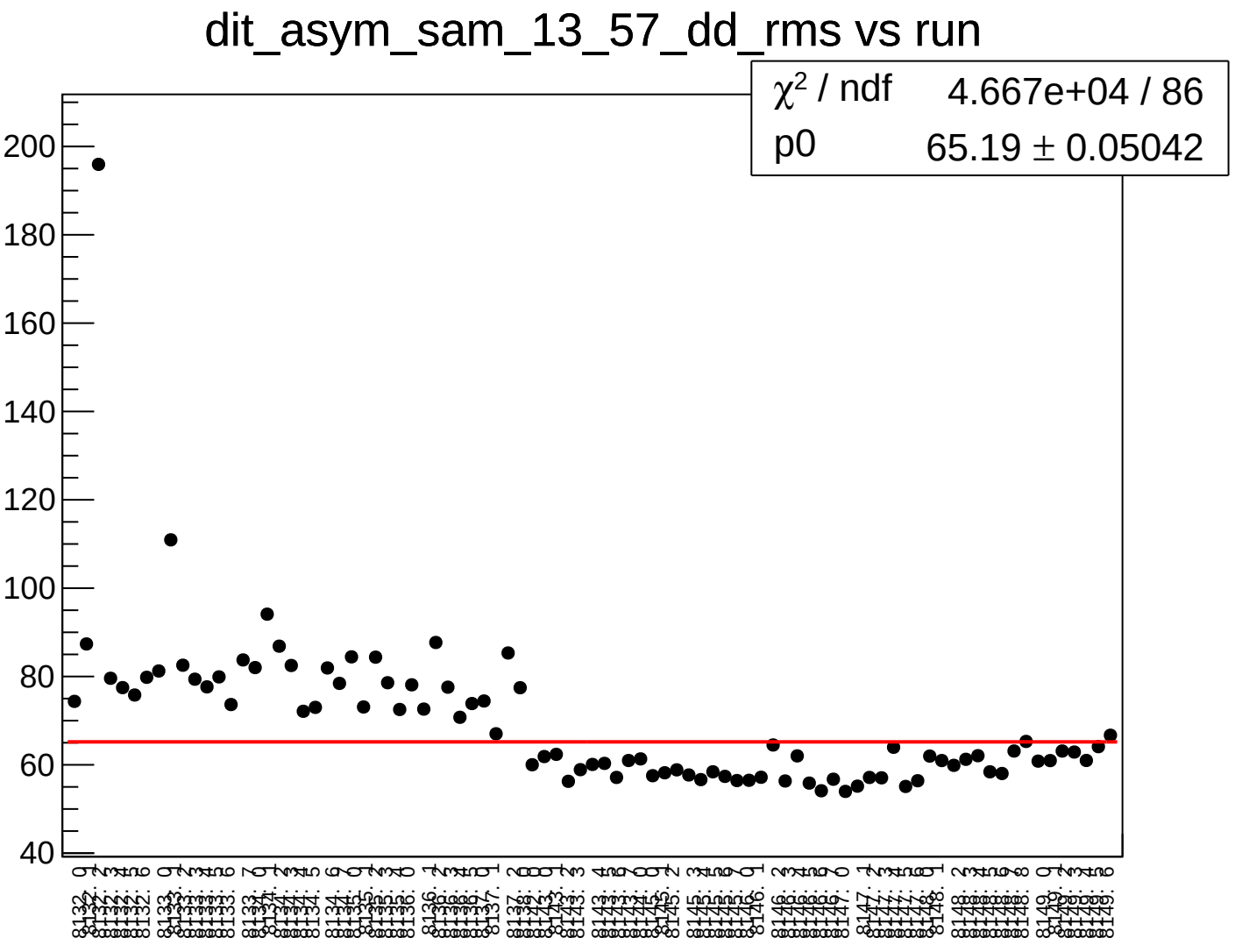

asym_sam_13_57_dd_eigen_cor_correction_mean vs run
χ² / ndf 91.88 / 86
p0 −684.5 ± 696.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean 77.21
Std Dev 0
2
1
0
−1
−2
−3

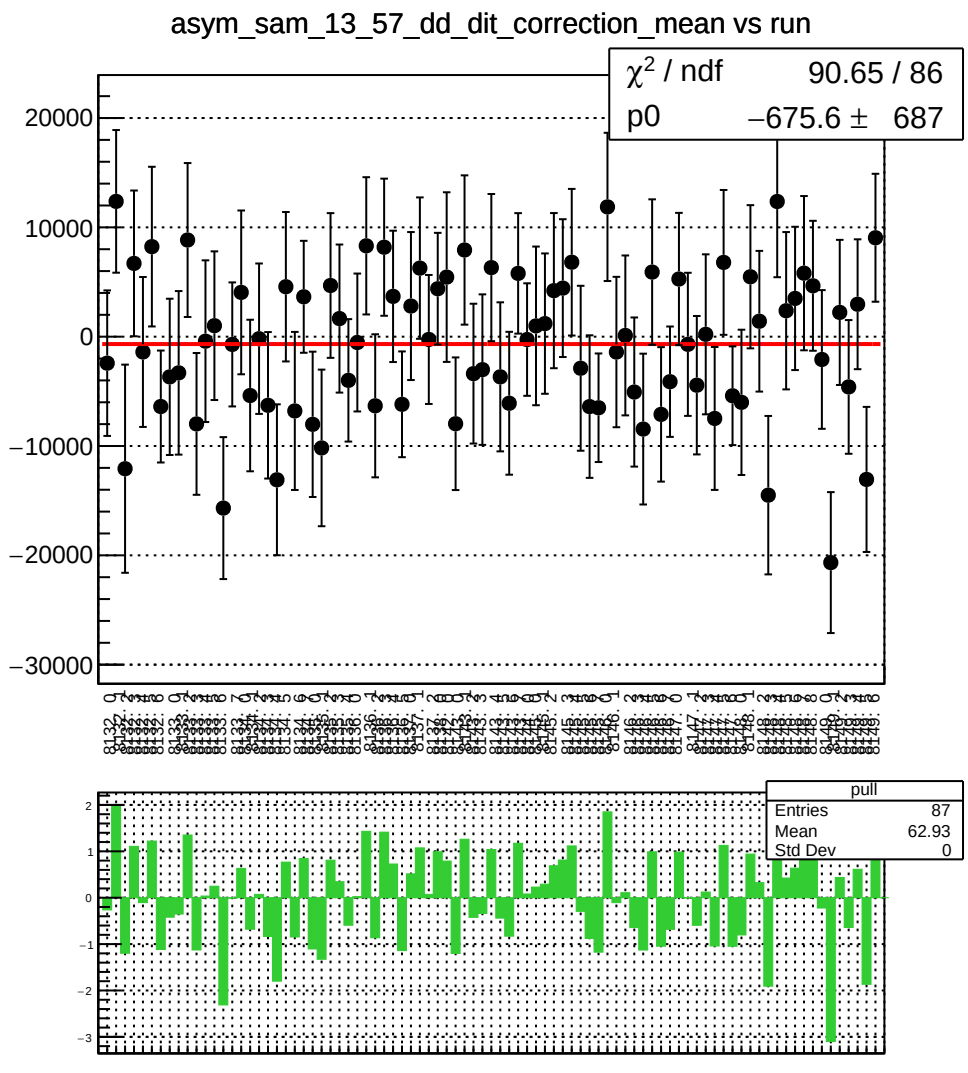

pull1D
Entries 87
Mean 0.007297
Std Dev 1.028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

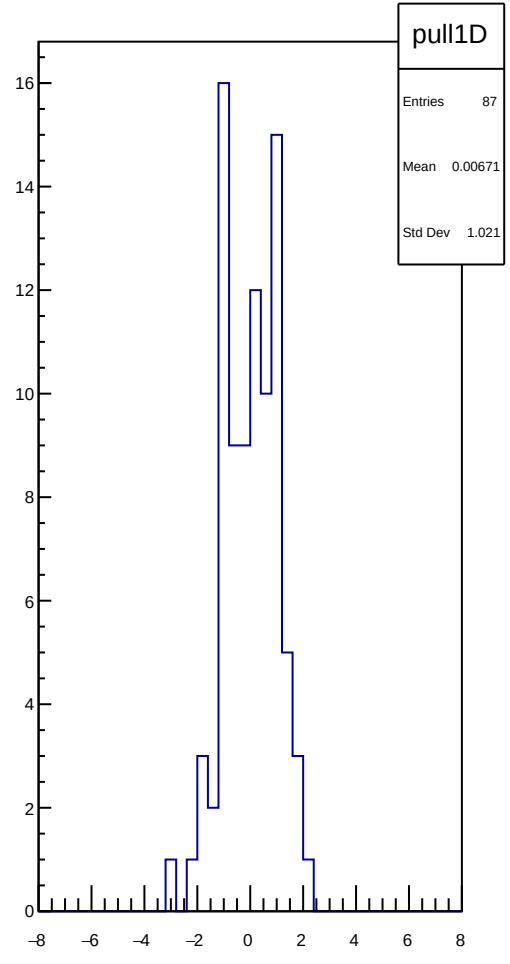

asym_sam_13_57_dd_eigen_cor_correction_rms vs run
χ² / ndf 6048 / 86
p0 644.4 ± 0.4924
900
850
800
750
700
650
600
550

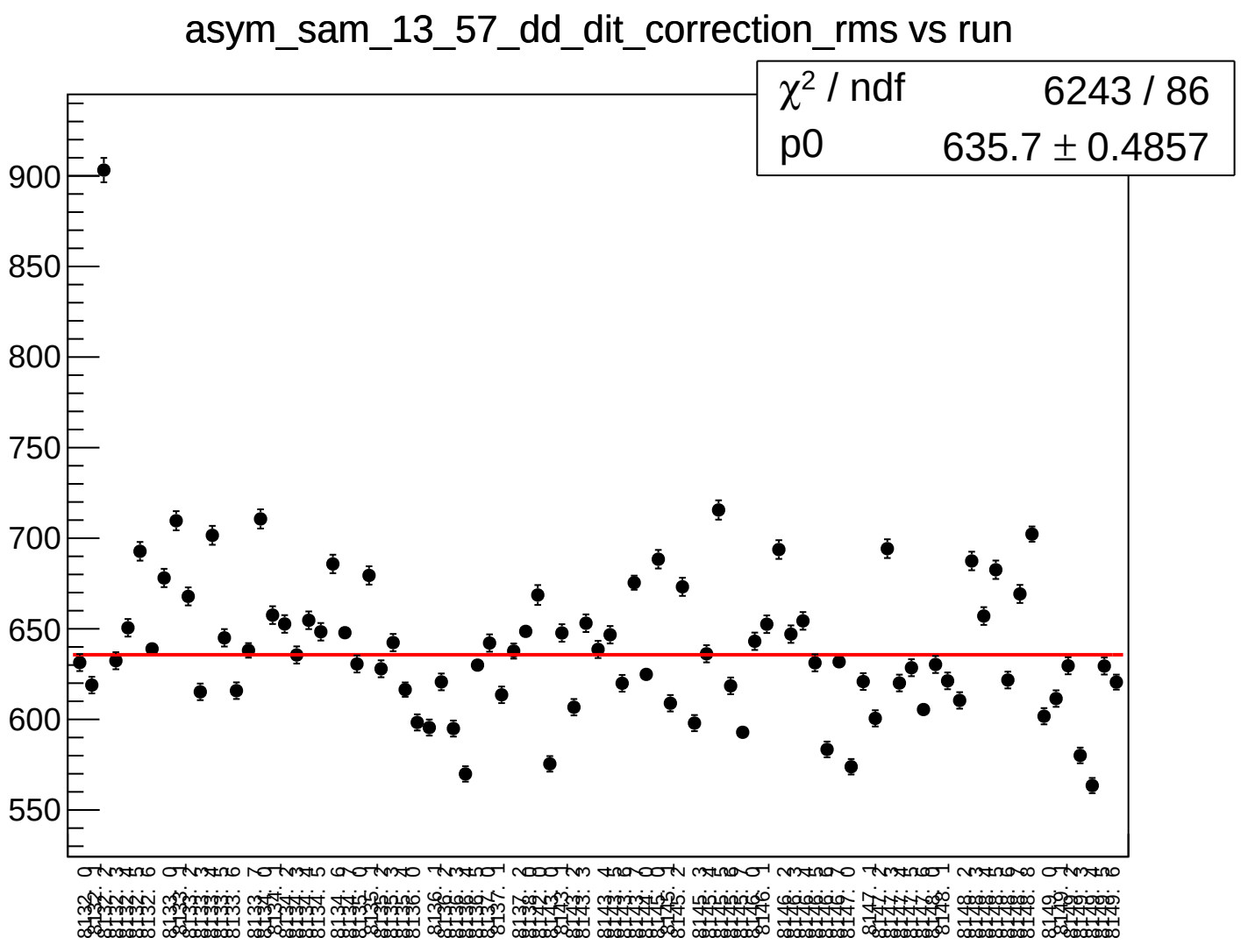

dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 107.6 / 86
p0 18.01 ± 71.3
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 87
Mean −44.71
Std Dev 0
2
1
0
−1
−2

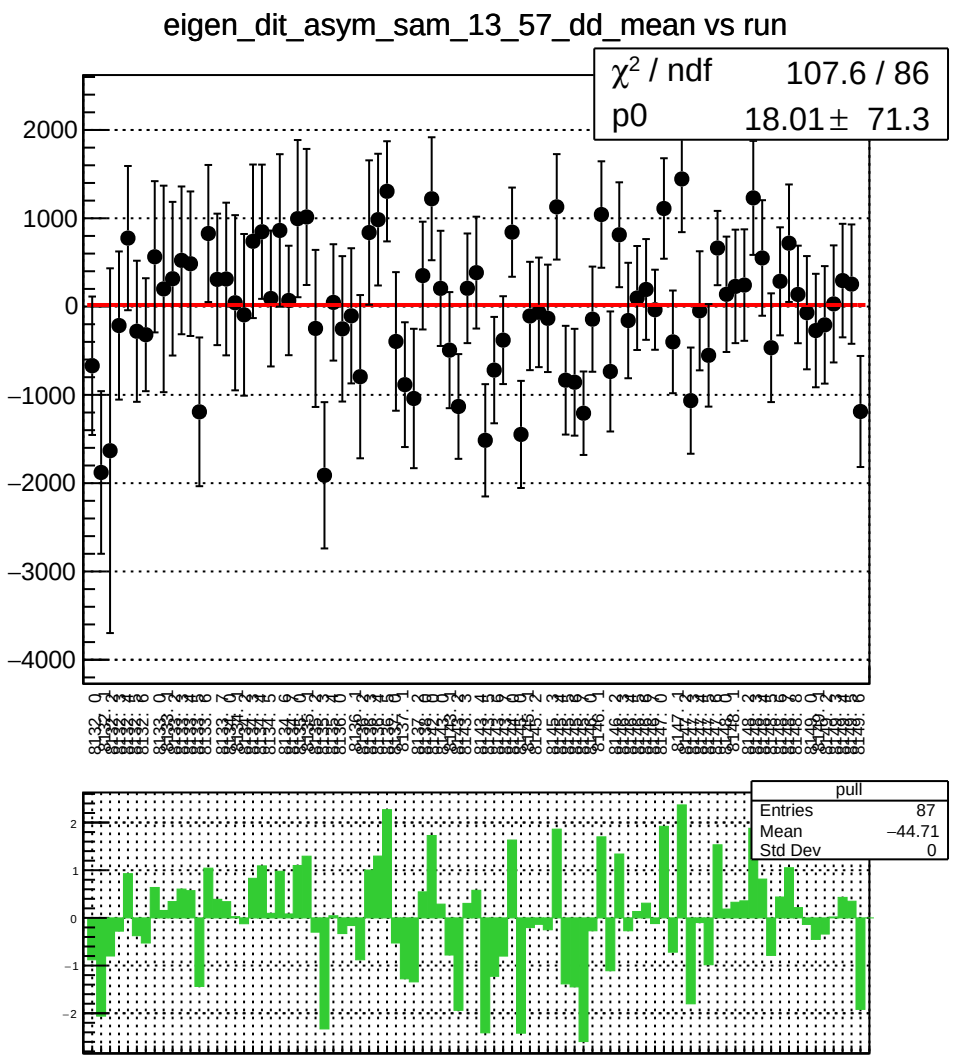

pull1D
Entries 87
Mean −0.008771
Std Dev 1.112
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

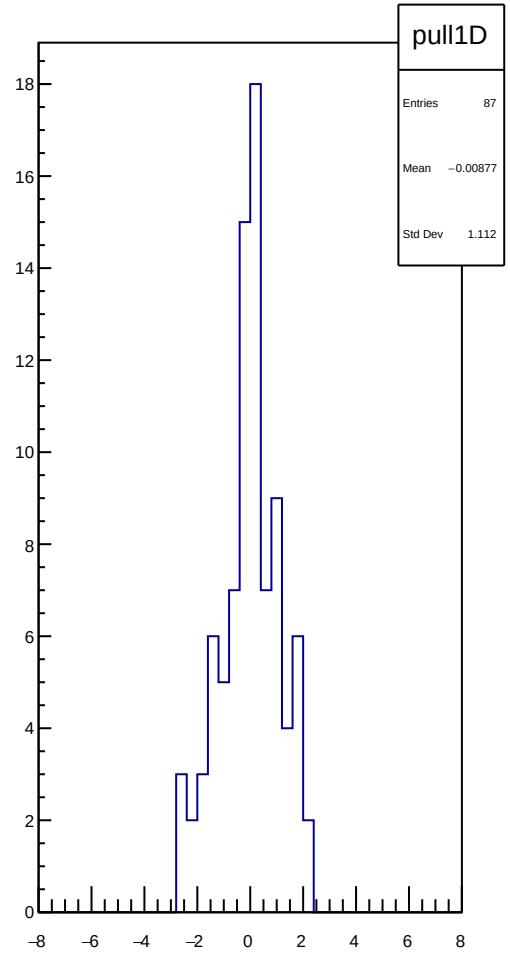

dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 4.667e+04 / 86
p0 65.19 ± 0.05042
200
180
160
140
120
100
80
60
40

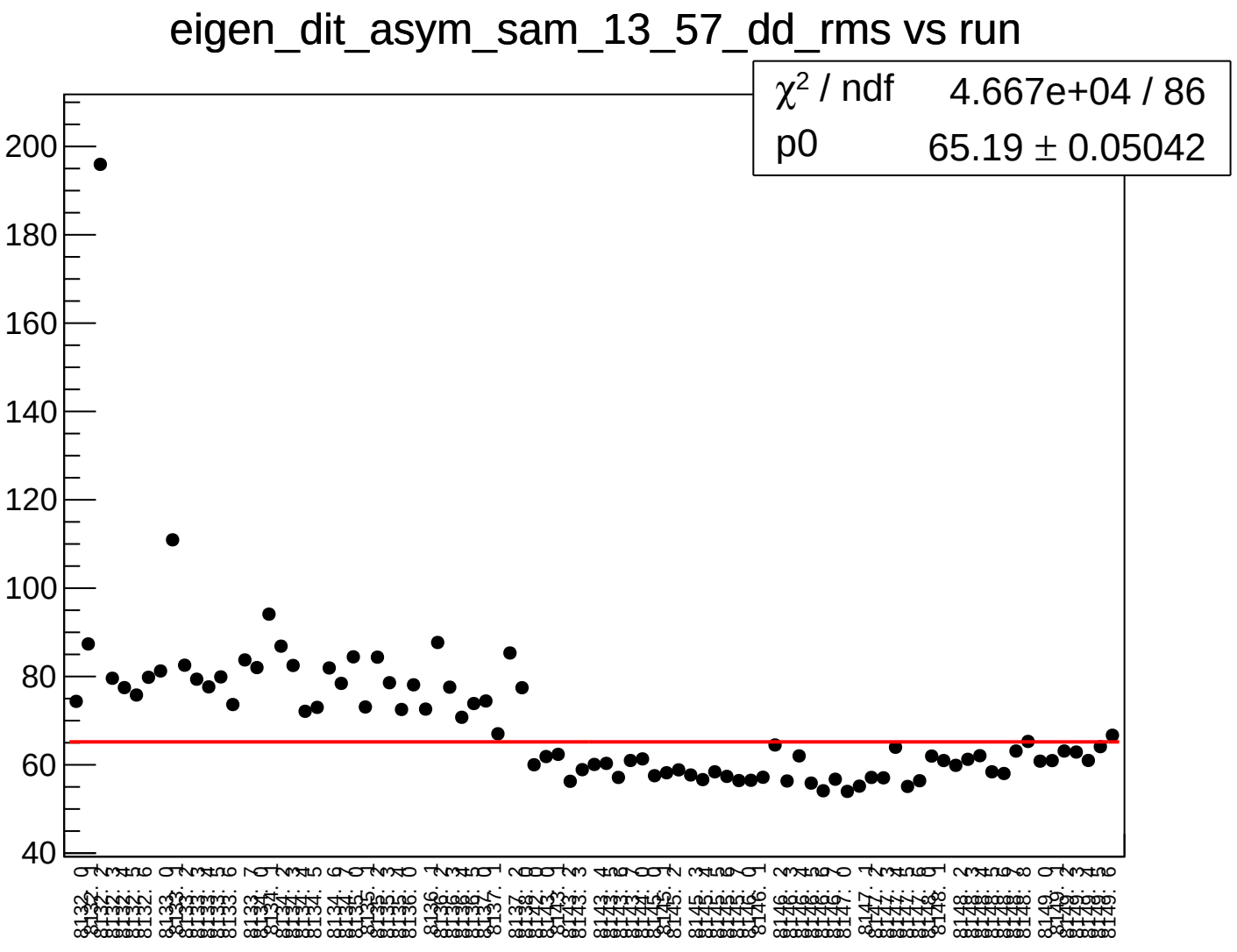

asym_sam_13_57_dd_dit_correction_mean vs run
χ² / ndf 90.65 / 86
p0 −675.6 ± 687
pull
Entries 87
Mean 62.93
Std Dev 0

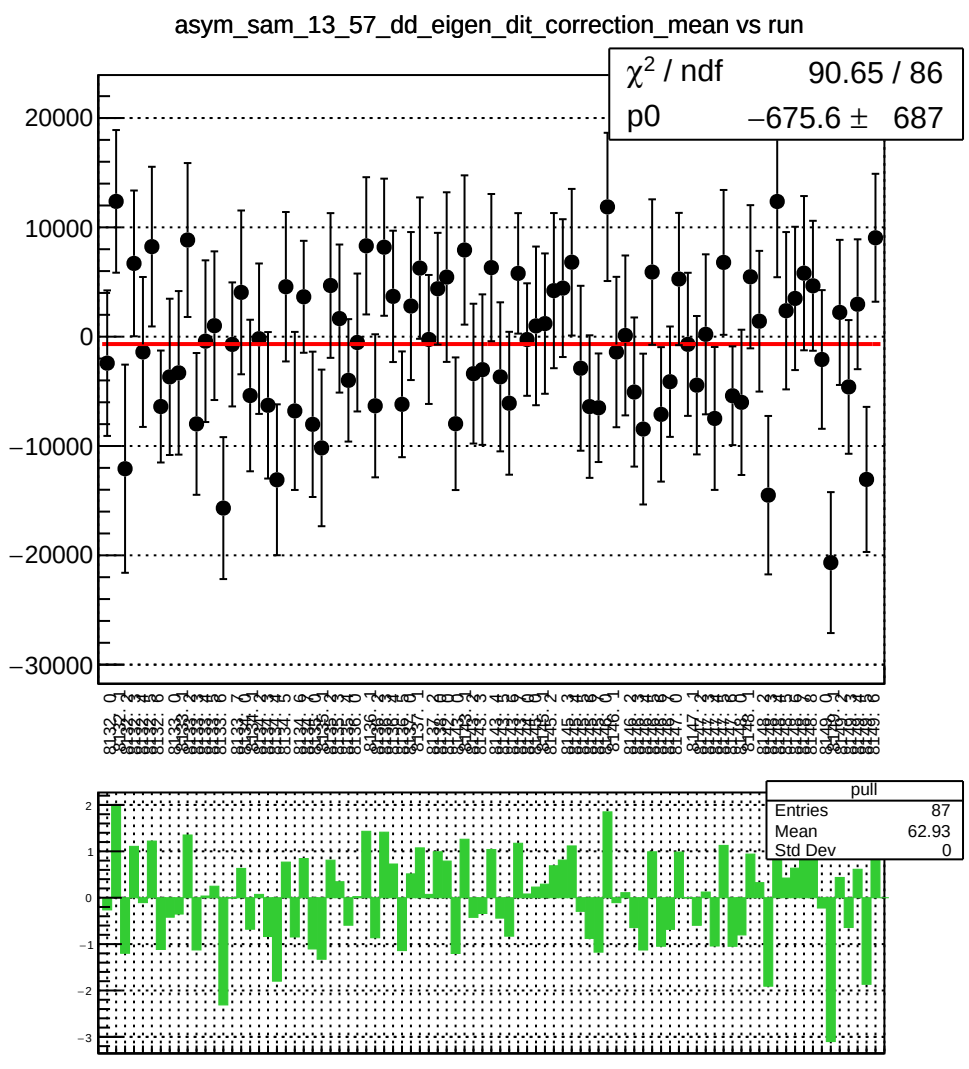

pull1D
Entries 87
Mean 0.00671
Std Dev 1.021

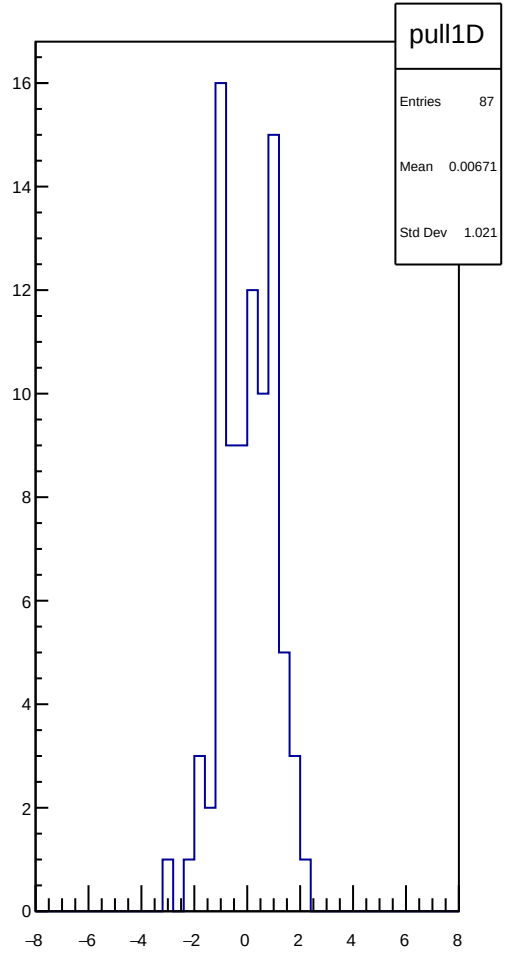

asym_sam_13_57_dd_dit_correction_rms vs run
χ² / ndf 6243 / 86
p0 635.7 ± 0.4857
900
850
800
750
700
650
600
550

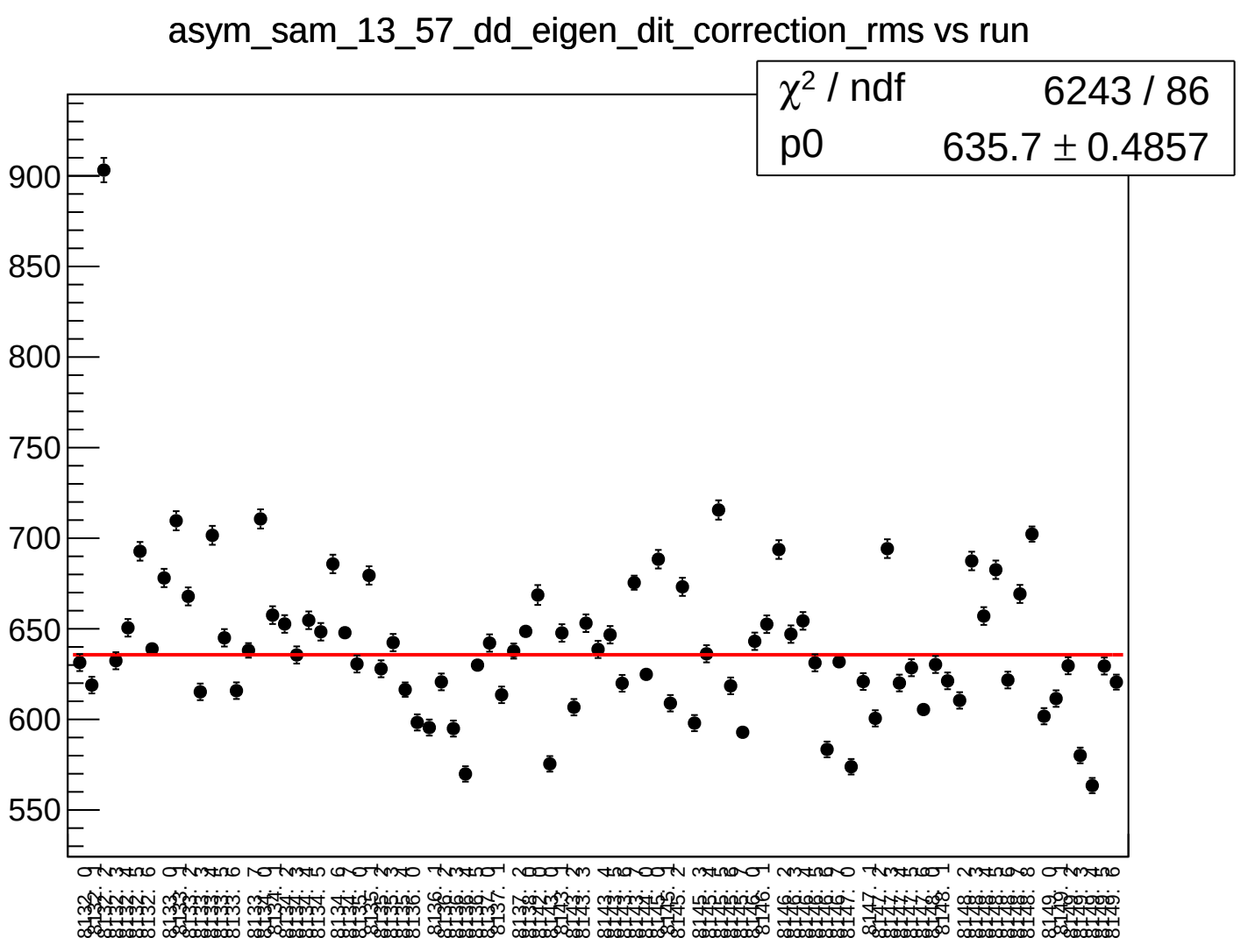

eigen_dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 107.6 / 86
p0 18.01 ± 71.3
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 87
Mean −44.71
Std Dev 0
2
1
0
−1
−2

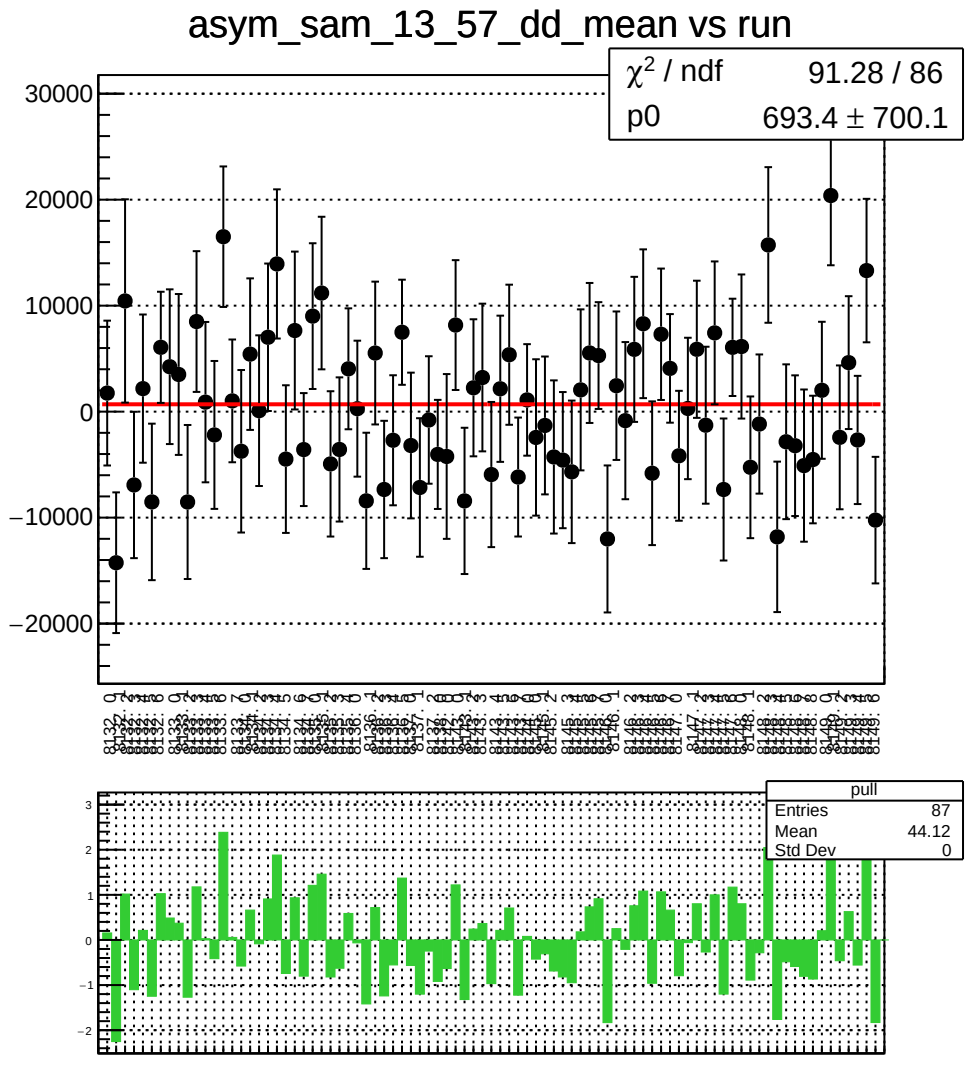

pull1D
Entries 87
Mean −0.00877
Std Dev 1.112
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

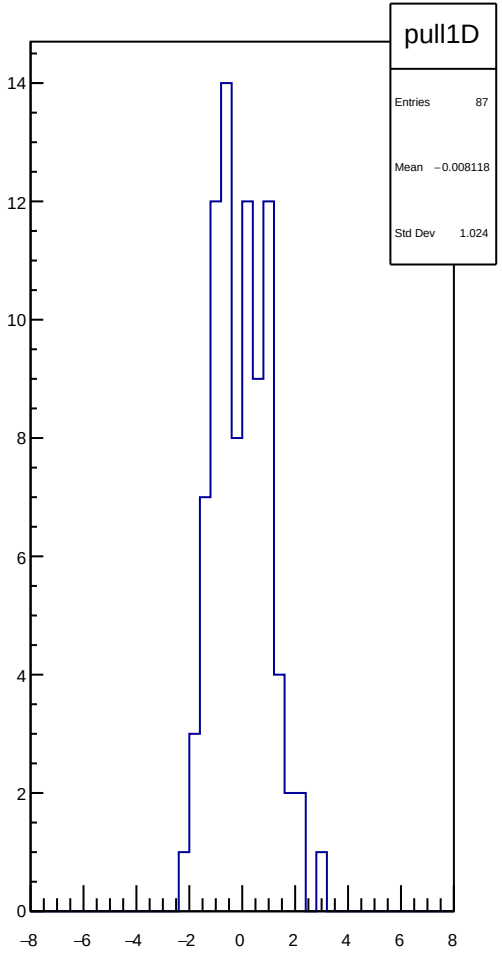

eigen_dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 4.667e+04 / 86
p0 65.19 ± 0.05042
200
180
160
140
120
100
80
60
40

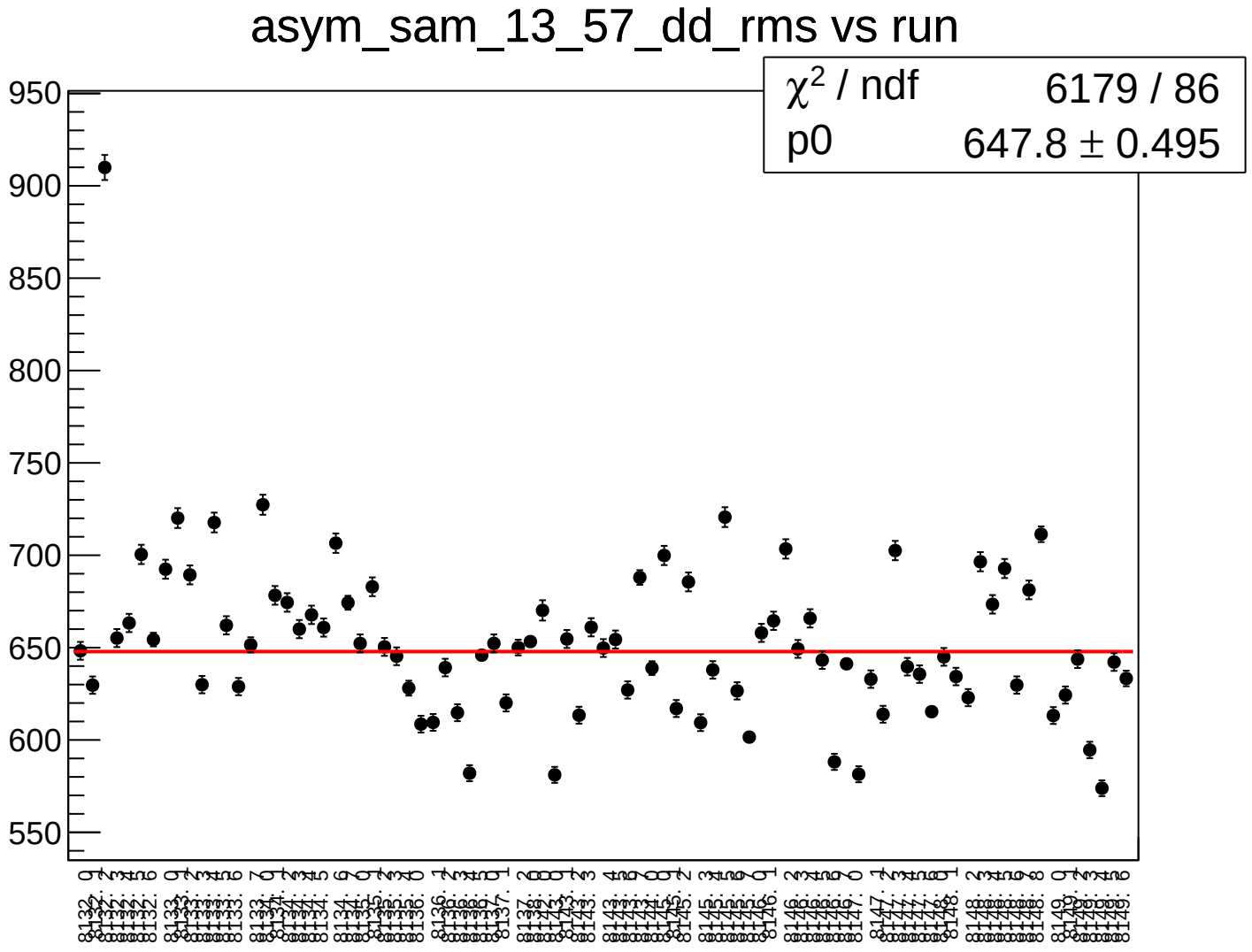

asym_sam_13_57_dd_eigen_dit_correction_mean vs run
χ² / ndf 90.65 / 86
p0 −675.6 ± 687
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean 62.93
Std Dev 0
2
1
0
−1
−2
−3

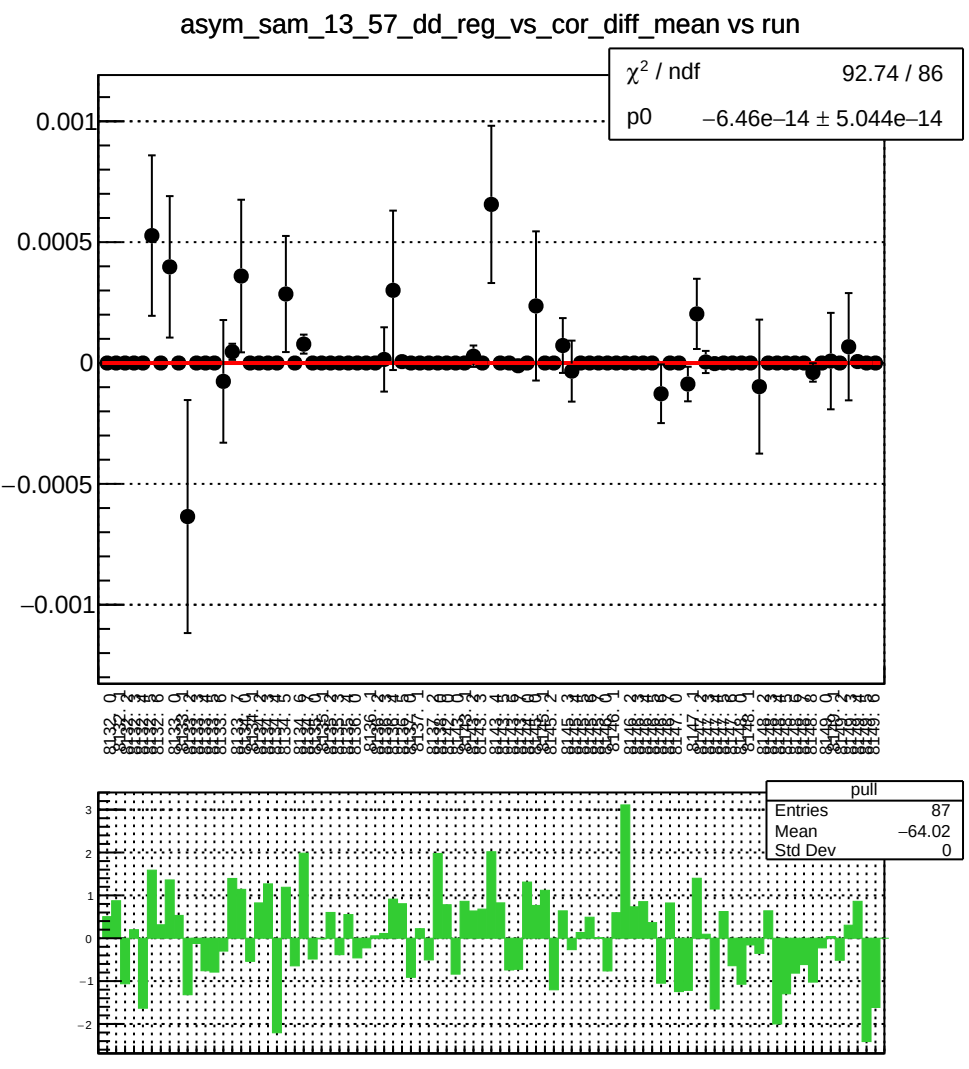

pull1D
Entries 87
Mean 0.00671
Std Dev 1.021
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

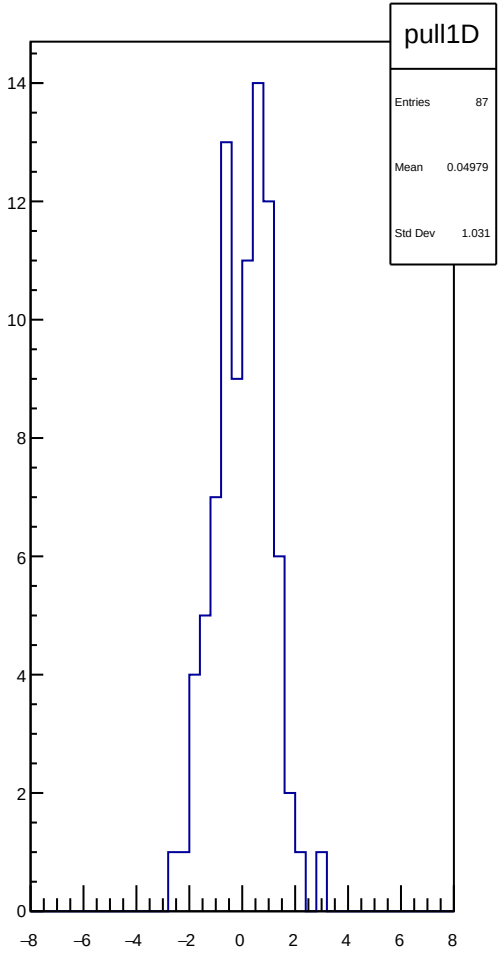

asym_sam_13_57_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 6243 / 86
p0 635.7 ± 0.4857
900
850
800
750
700
650
600
550

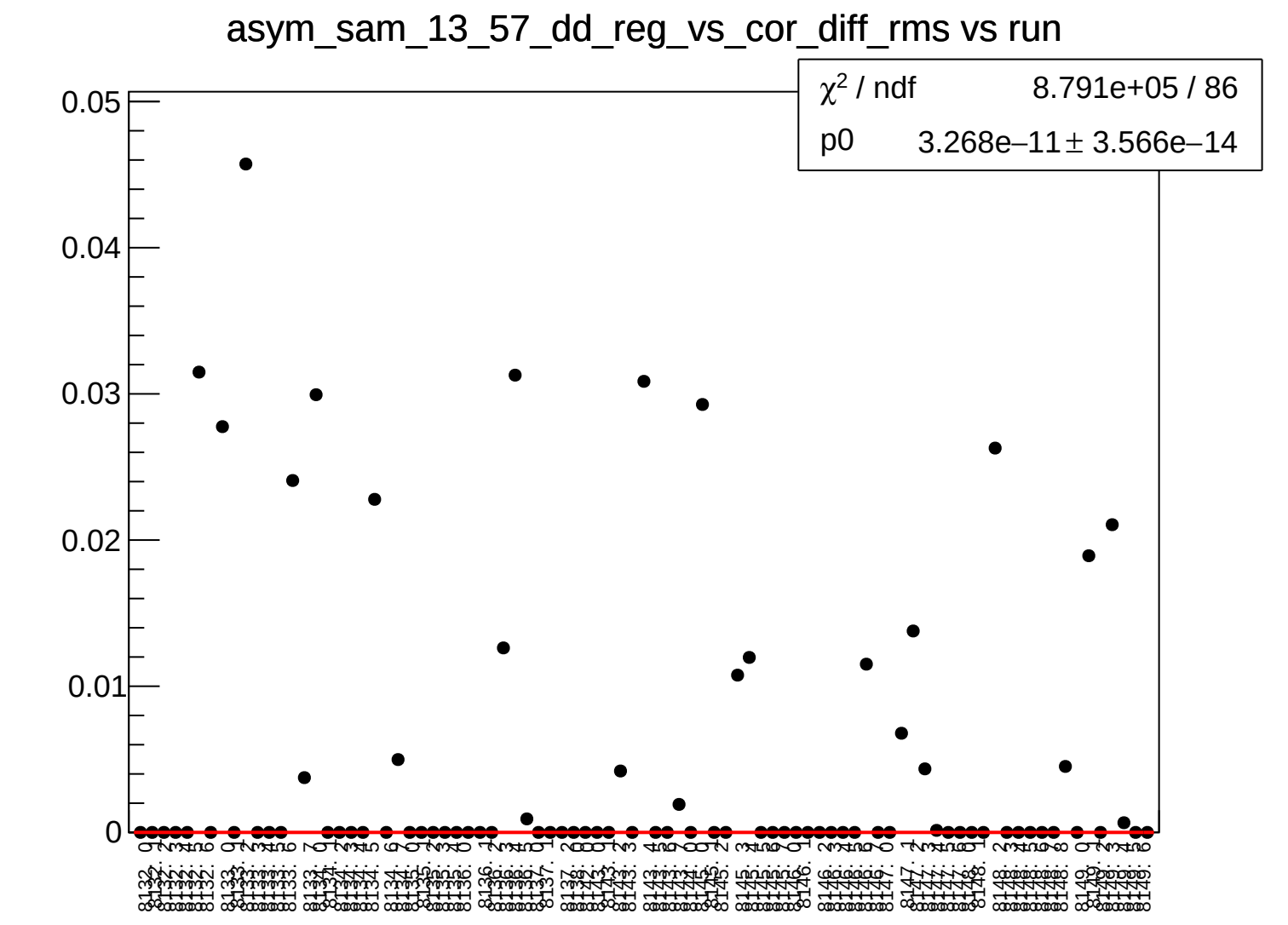

asym_sam_13_57_dd_mean vs run
χ² / ndf 91.28 / 86
p0 693.4 ± 700.1
30000
20000
10000
0
−10000
−20000
pull
Entries 87
Mean 44.12
Std Dev 0
3
2
1
0
−1
−2

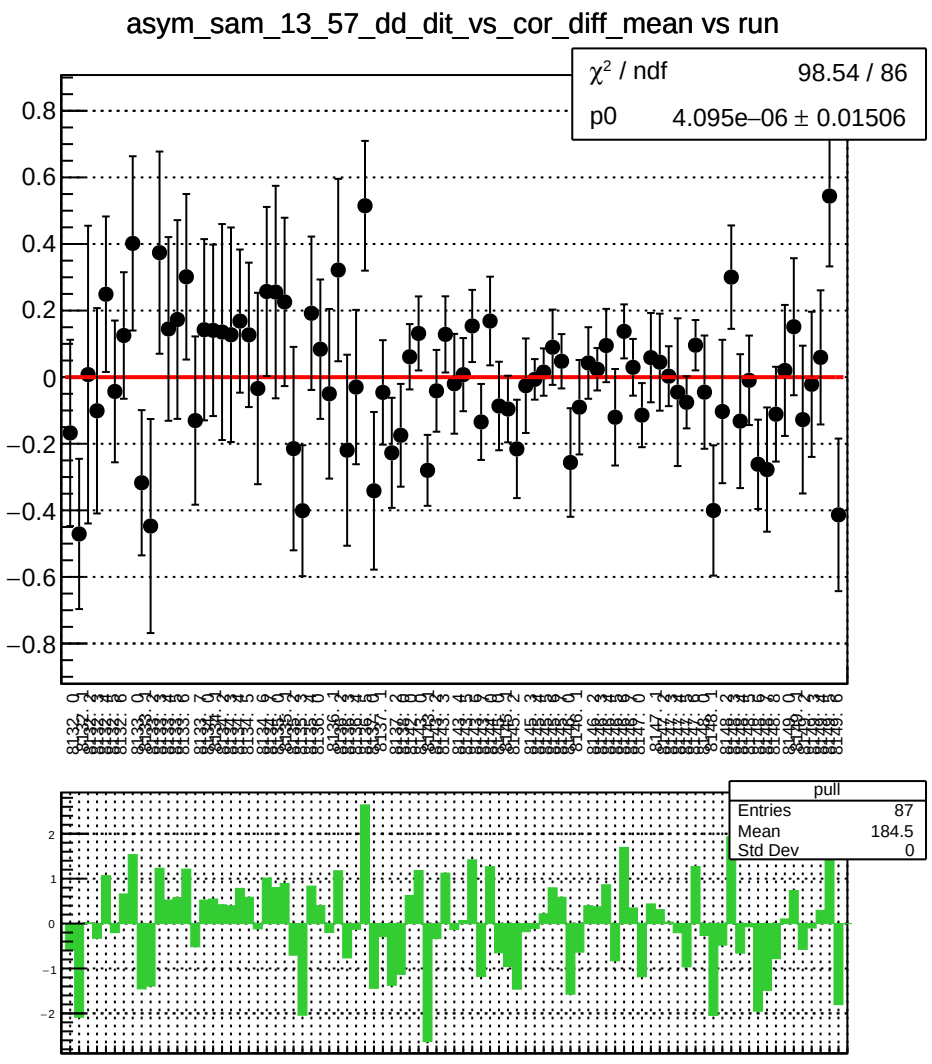

pull1D
Entries 87
Mean −0.008118
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

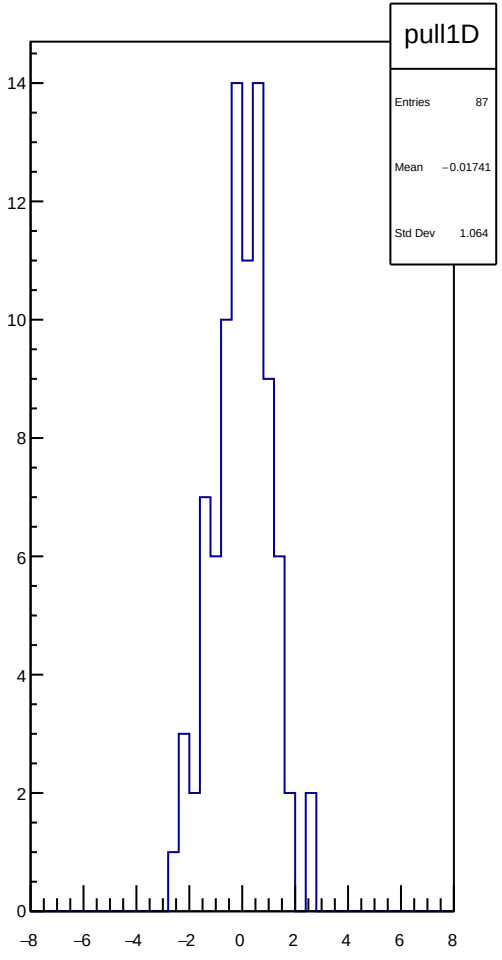

asym_sam_13_57_dd_rms vs run
χ^2 / ndf 6179 / 86
p0 647.8 ± 0.495
950
900
850
800
750
700
650
600
550

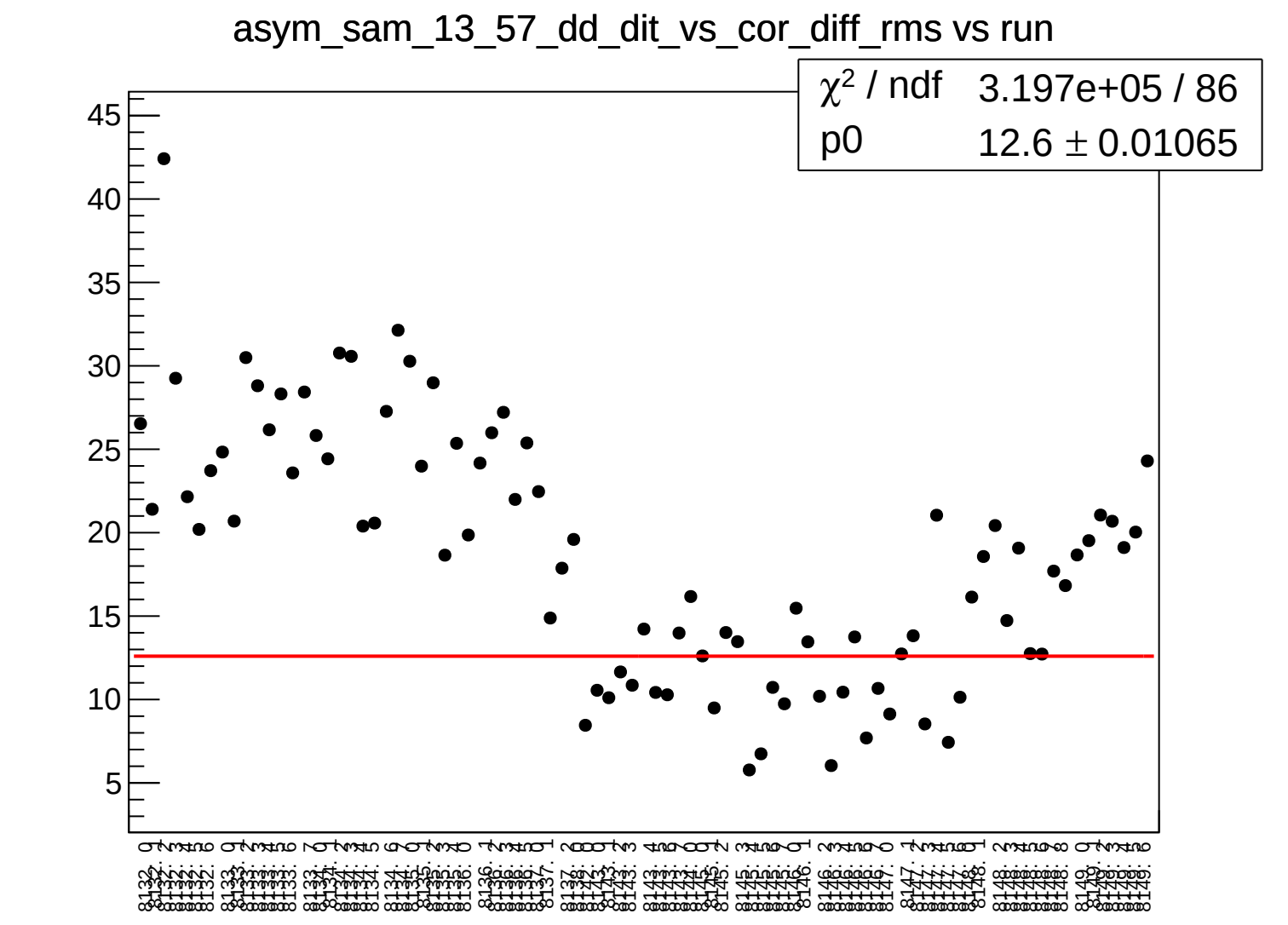

asym_sam_13_57_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 92.74 / 86
p0 −6.46e−14 ± 5.044e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 87
Mean −64.02
Std Dev 0
3
2
1
0
−1
−2

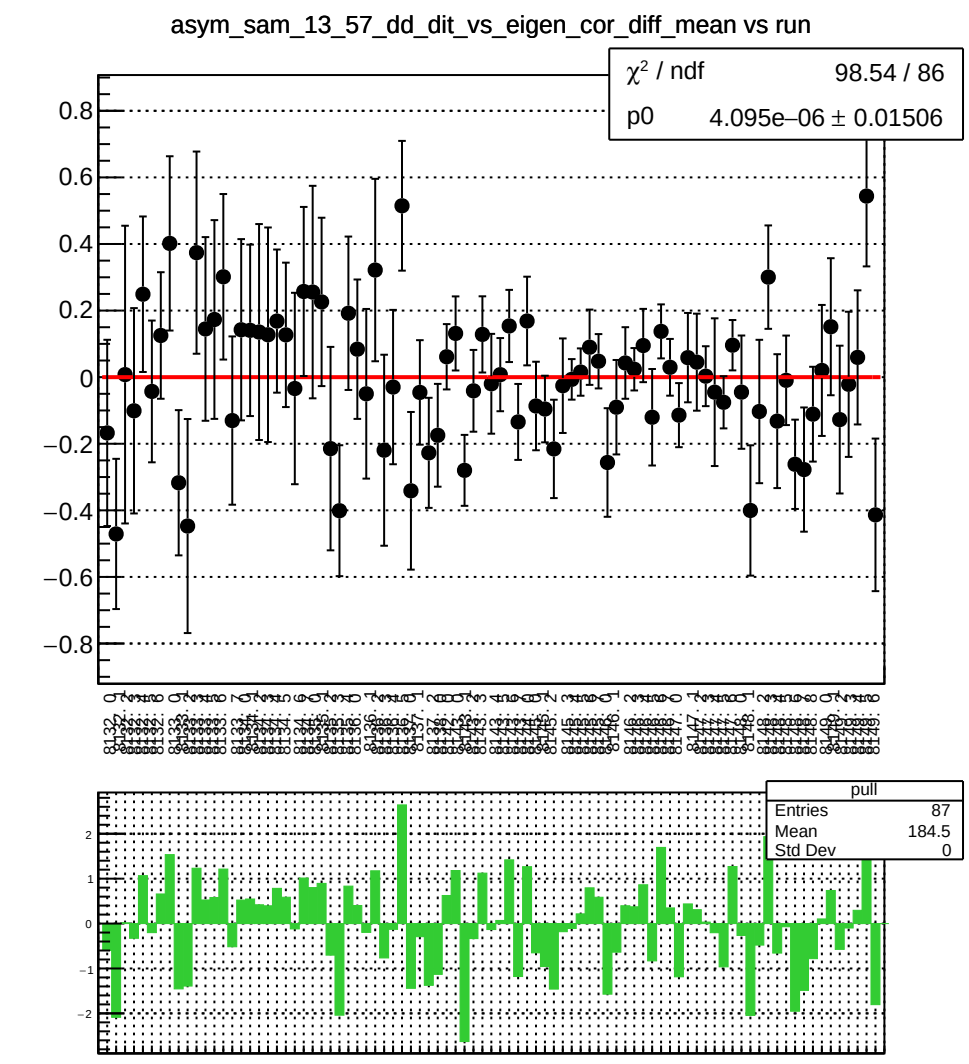

pull1D
Entries 87
Mean 0.04979
Std Dev 1.031
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

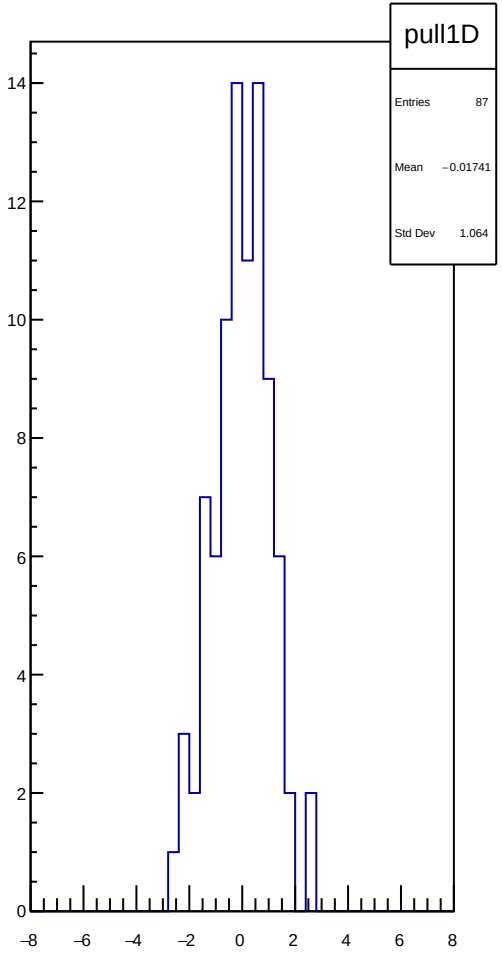

asym_sam_13_57_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.791e+05 / 86
p0 3.268e−11 ± 3.566e−14
0.05
0.04
0.03
0.02
0.01
0

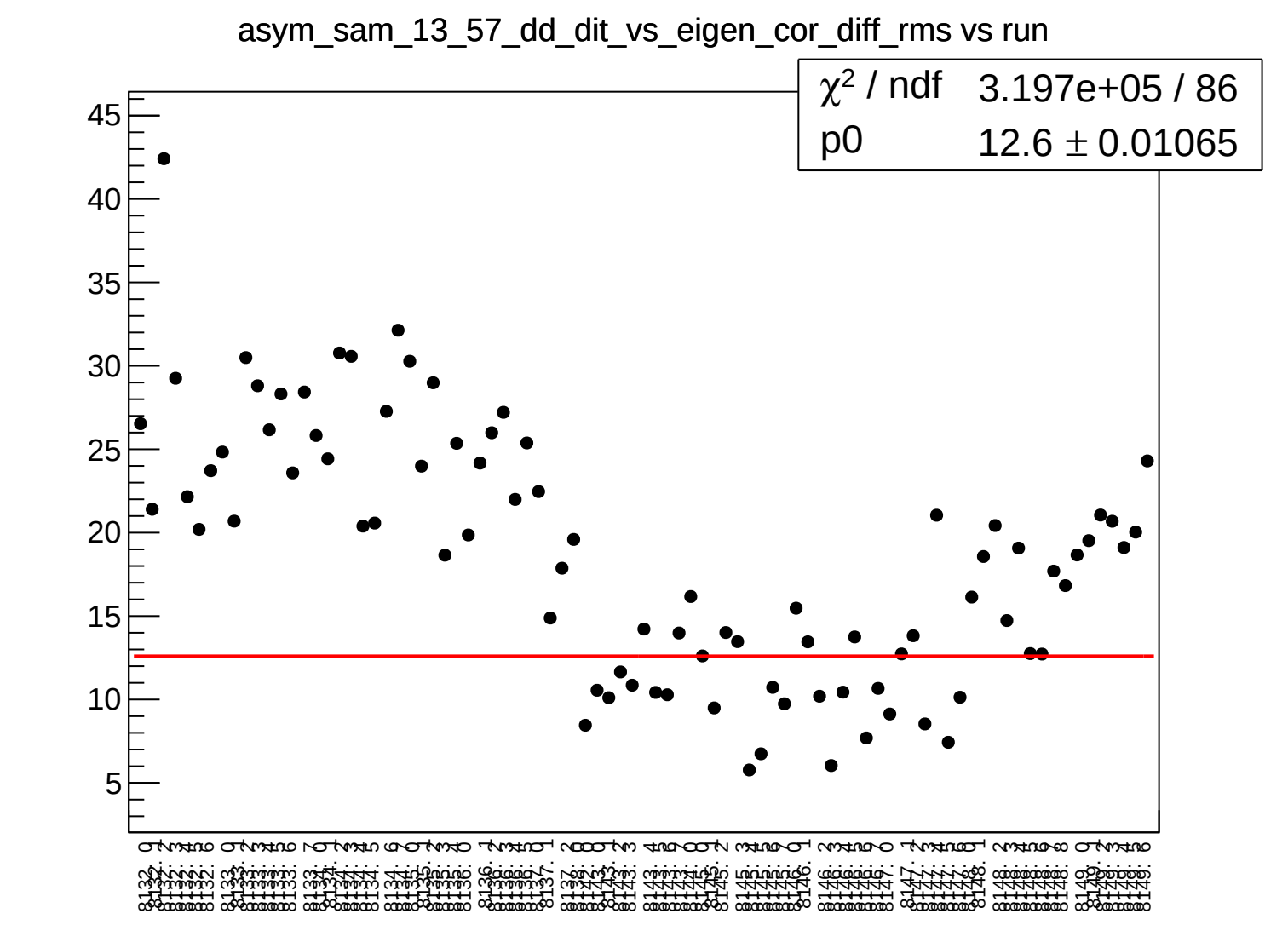

asym_sam_13_57_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 98.54 / 86
p0 4.095e−06 ± 0.01506
pull
Entries 87
Mean 184.5
Std Dev 0

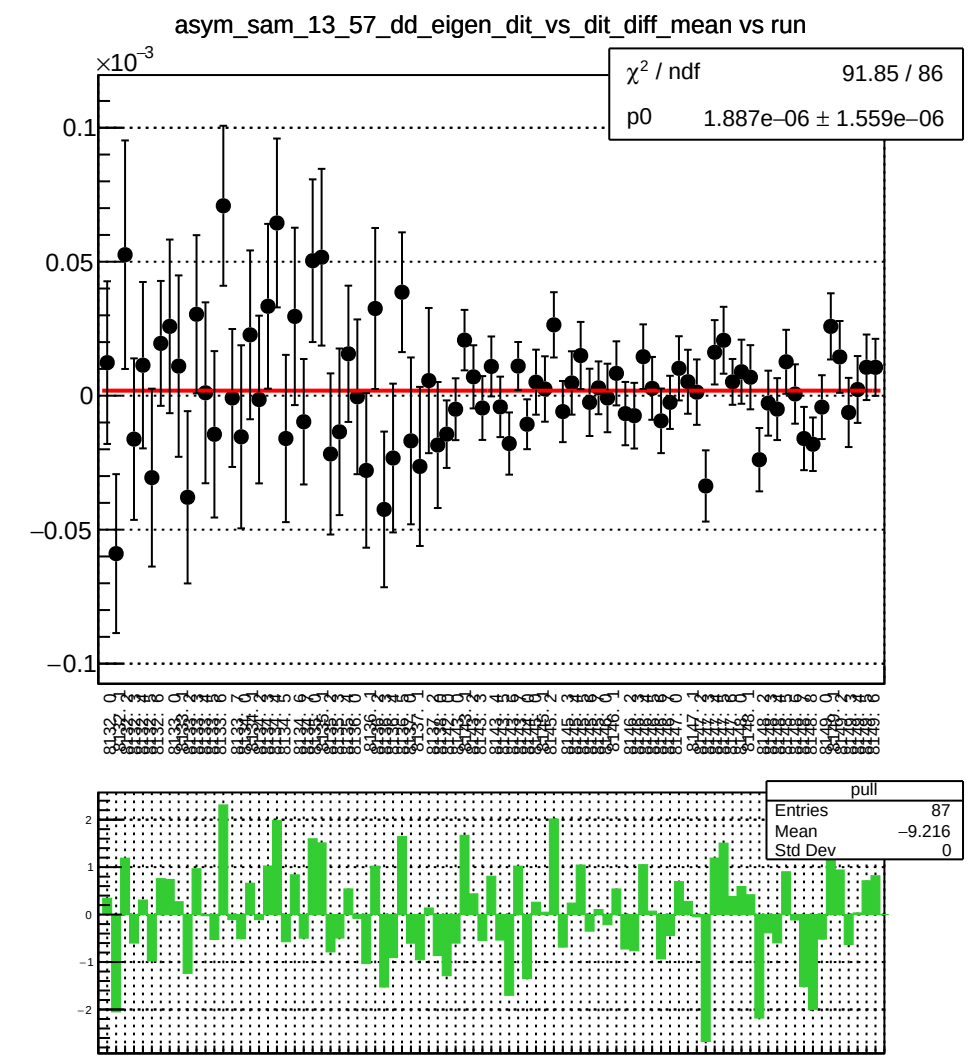

pull1D
Entries 87
Mean −0.01741
Std Dev 1.064

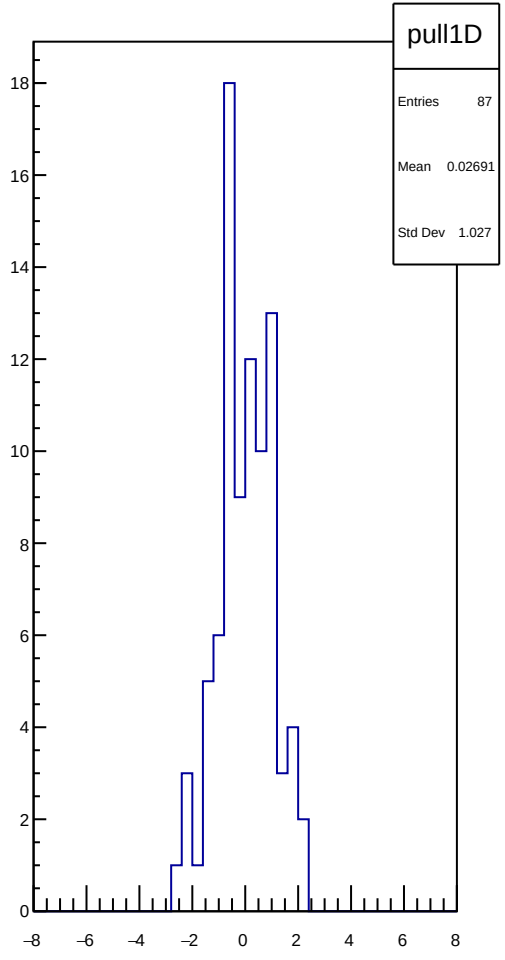

asym_sam_13_57_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.197e+05 / 86
p0 12.6 ± 0.01065
45
40
35
30
25
20
15
10
5

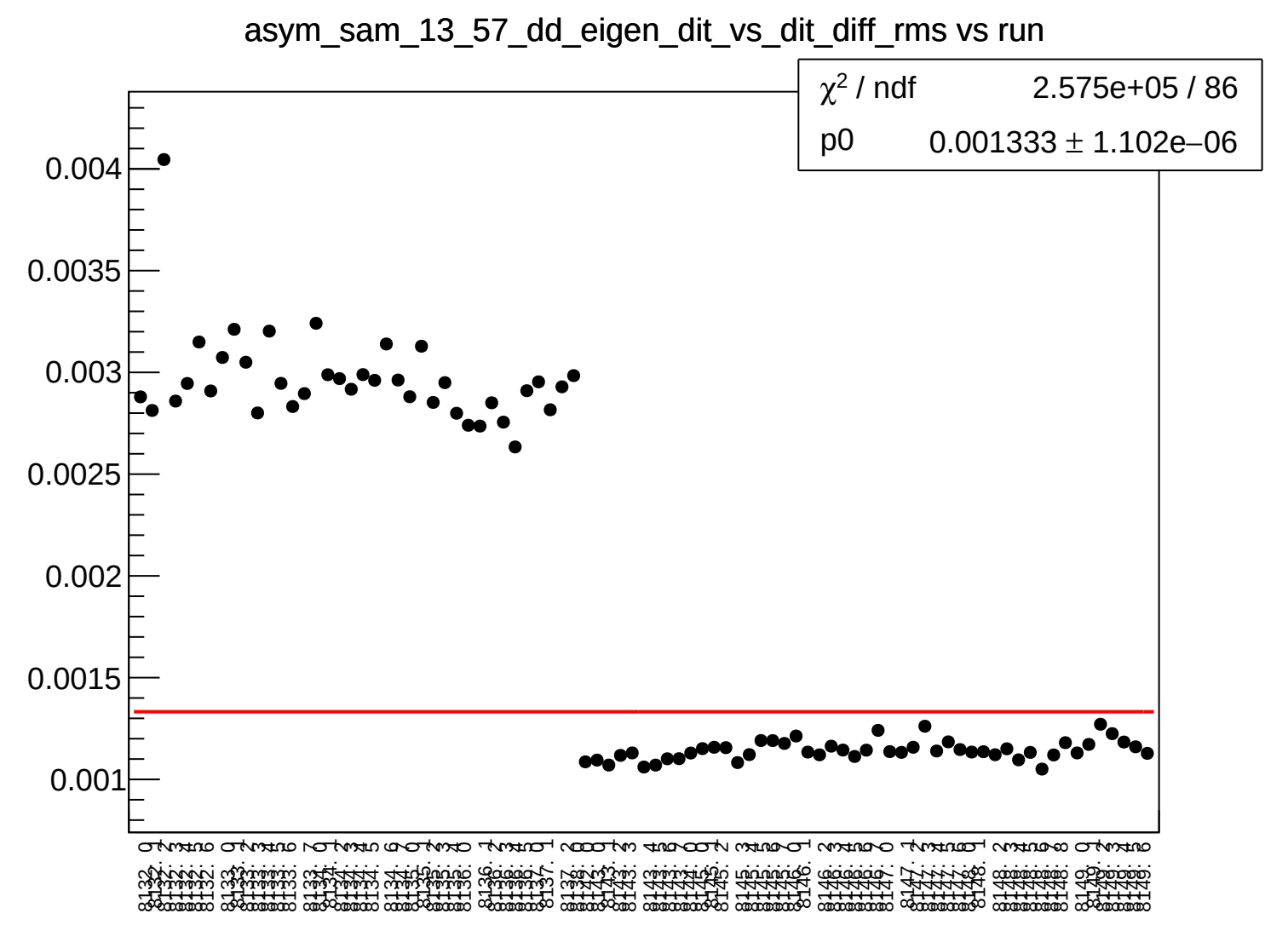

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.54 / 86
p0 4.095e−06 ± 0.01506
pull
Entries 87
Mean 184.5
Std Dev 0

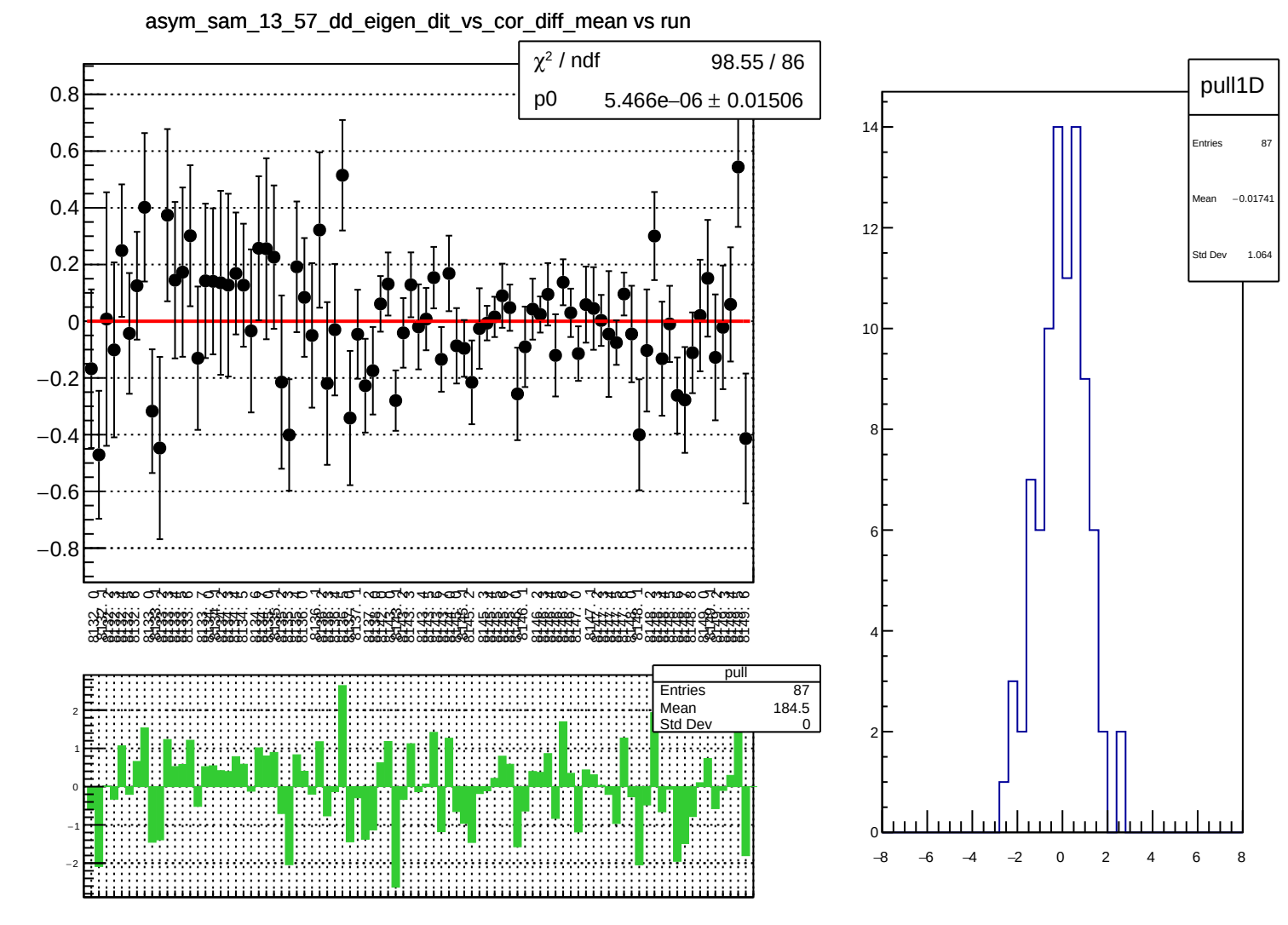

pull1D
Entries 87
Mean −0.01741
Std Dev 1.064

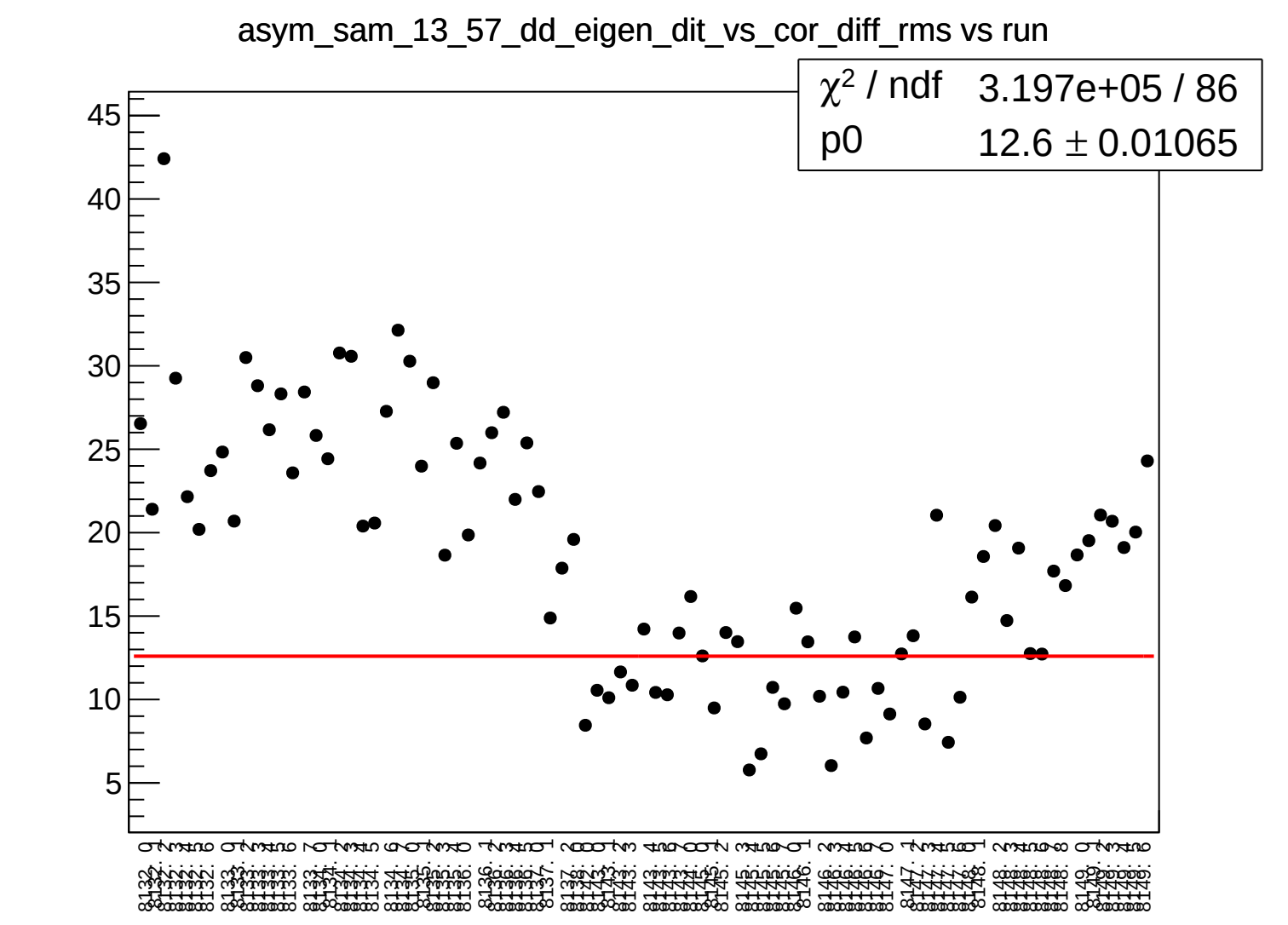

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.197e+05 / 86
p0 12.6 ± 0.01065
45
40
35
30
25
20
15
10
5

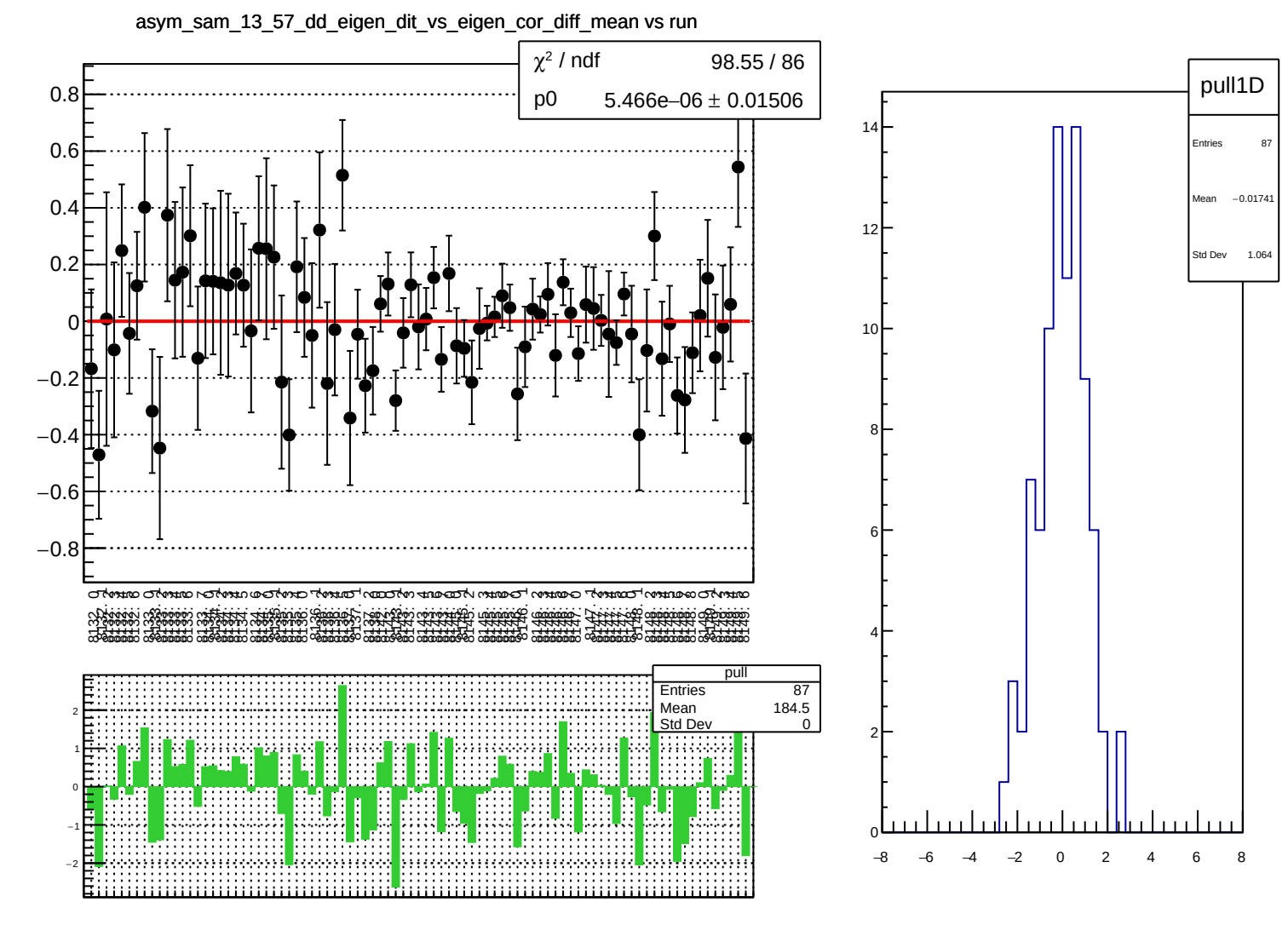

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.85 / 86
p0 1.887e−06 ± 1.559e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 87
Mean −9.216
Std Dev 0
2
1
0
−1
−2

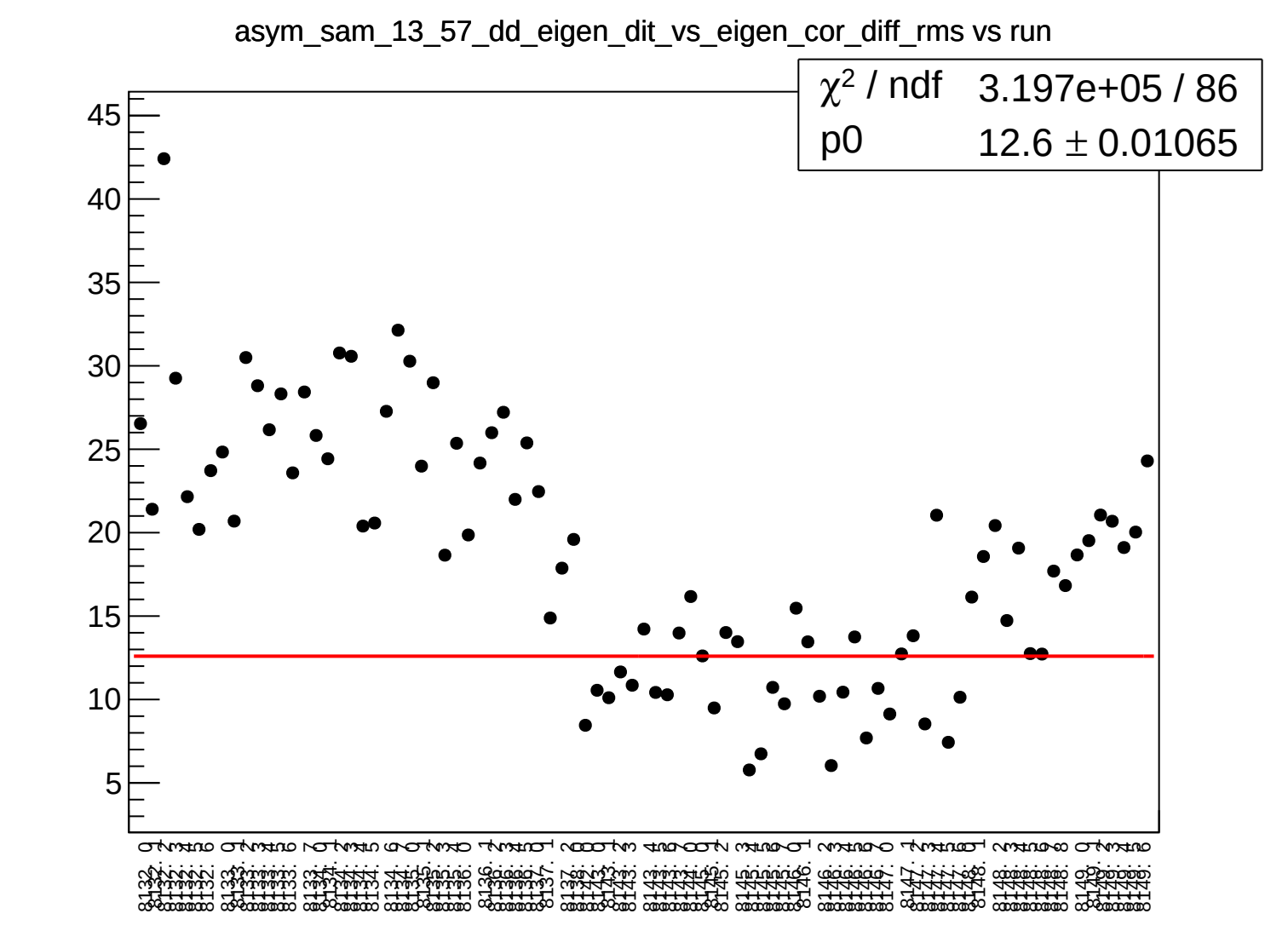

pull1D
Entries 87
Mean 0.02691
Std Dev 1.027
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

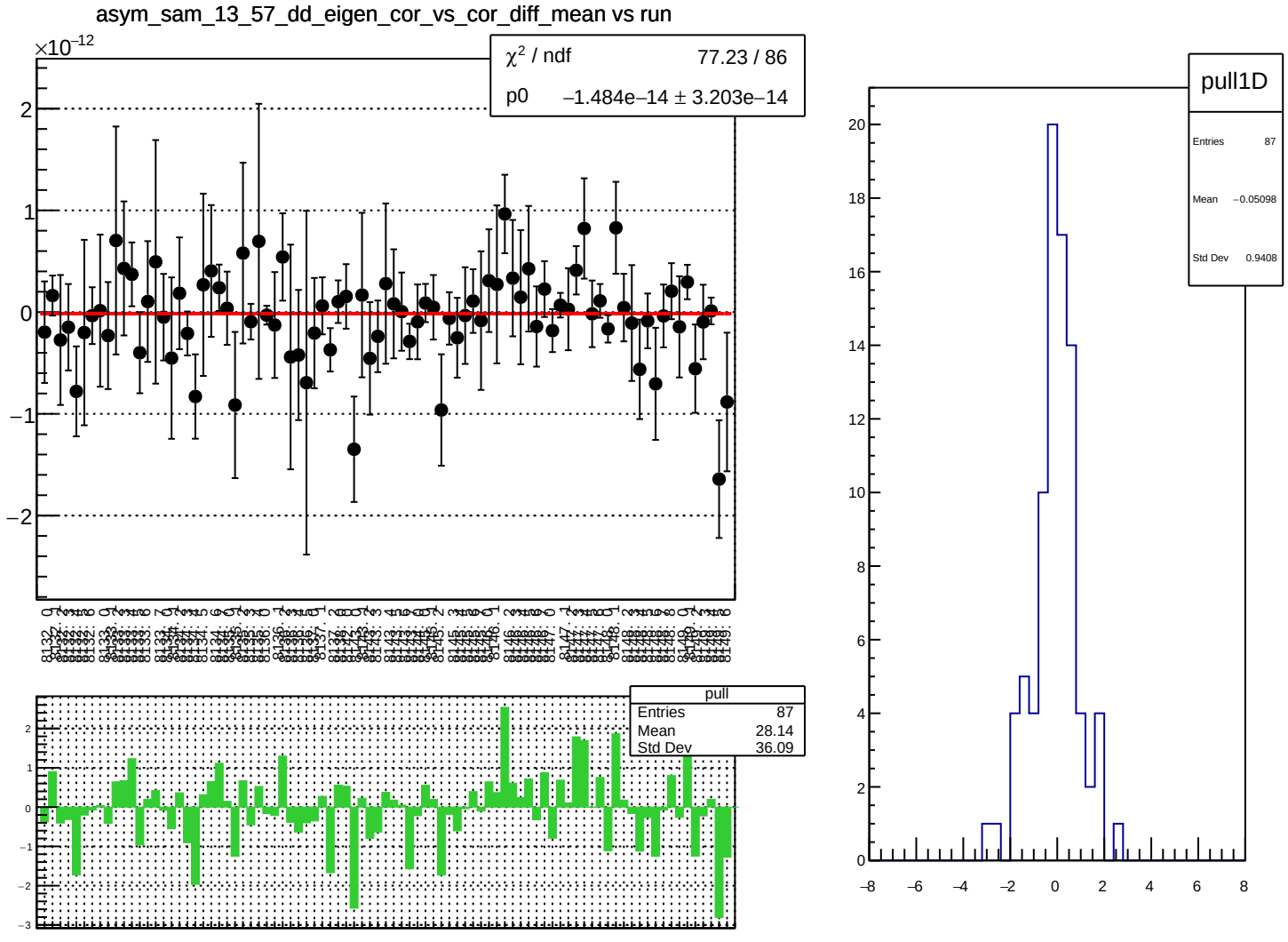

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.575e+05 / 86
p0 0.001333 ± 1.102e−06
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001

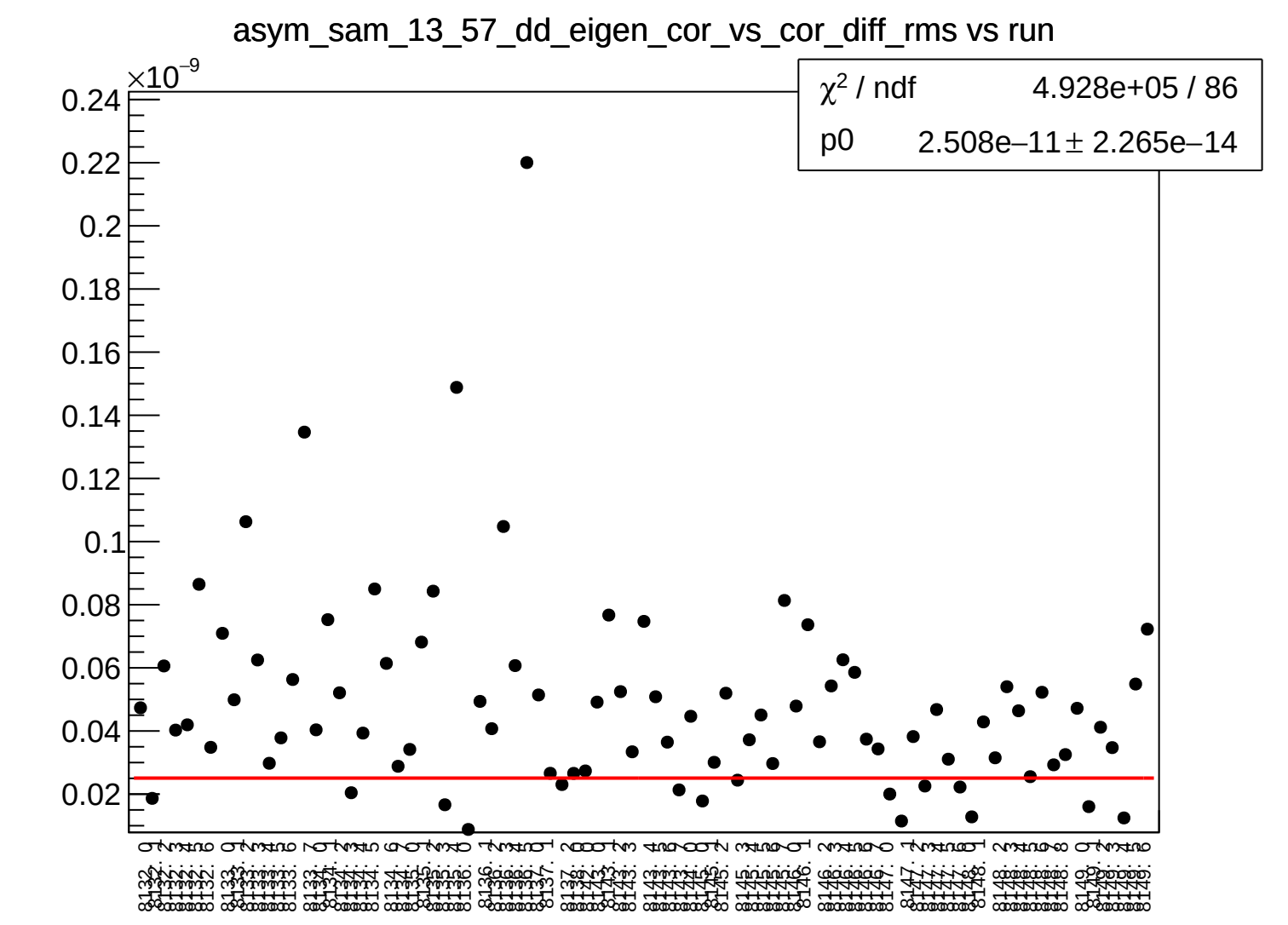

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 98.55 / 86
p0 5.466e−06 ± 0.01506
pull
Entries 87
Mean 184.5
Std Dev 0
pull1D
Entries 87
Mean −0.01741
Std Dev 1.064

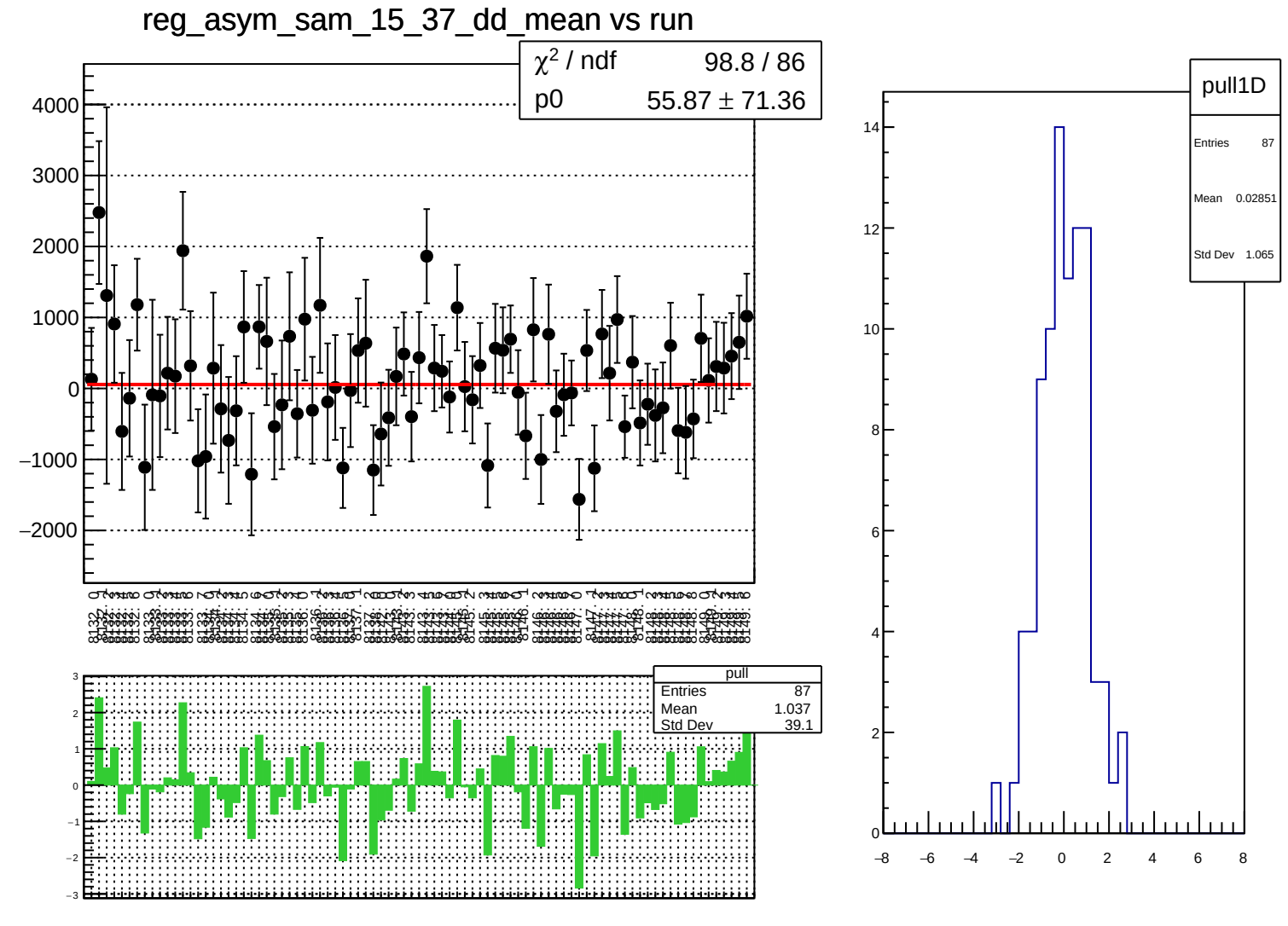

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.197e+05 / 86
p0 12.6 ± 0.01065
45
40
35
30
25
20
15
10
5

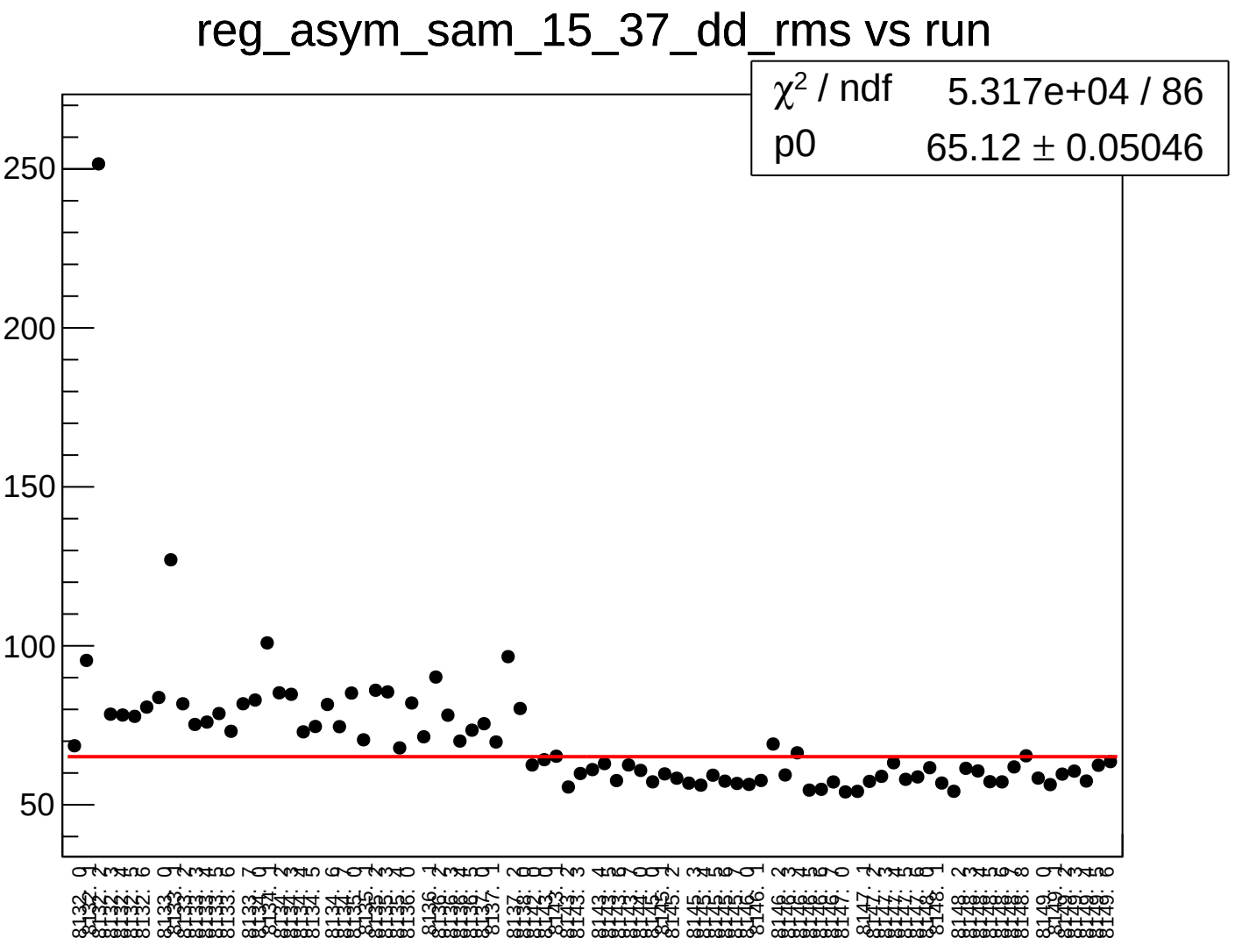

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.55 / 86
p0 5.466e−06 ± 0.01506
pull
Entries 87
Mean 184.5
Std Dev 0
pull1D
Entries 87
Mean −0.01741
Std Dev 1.064

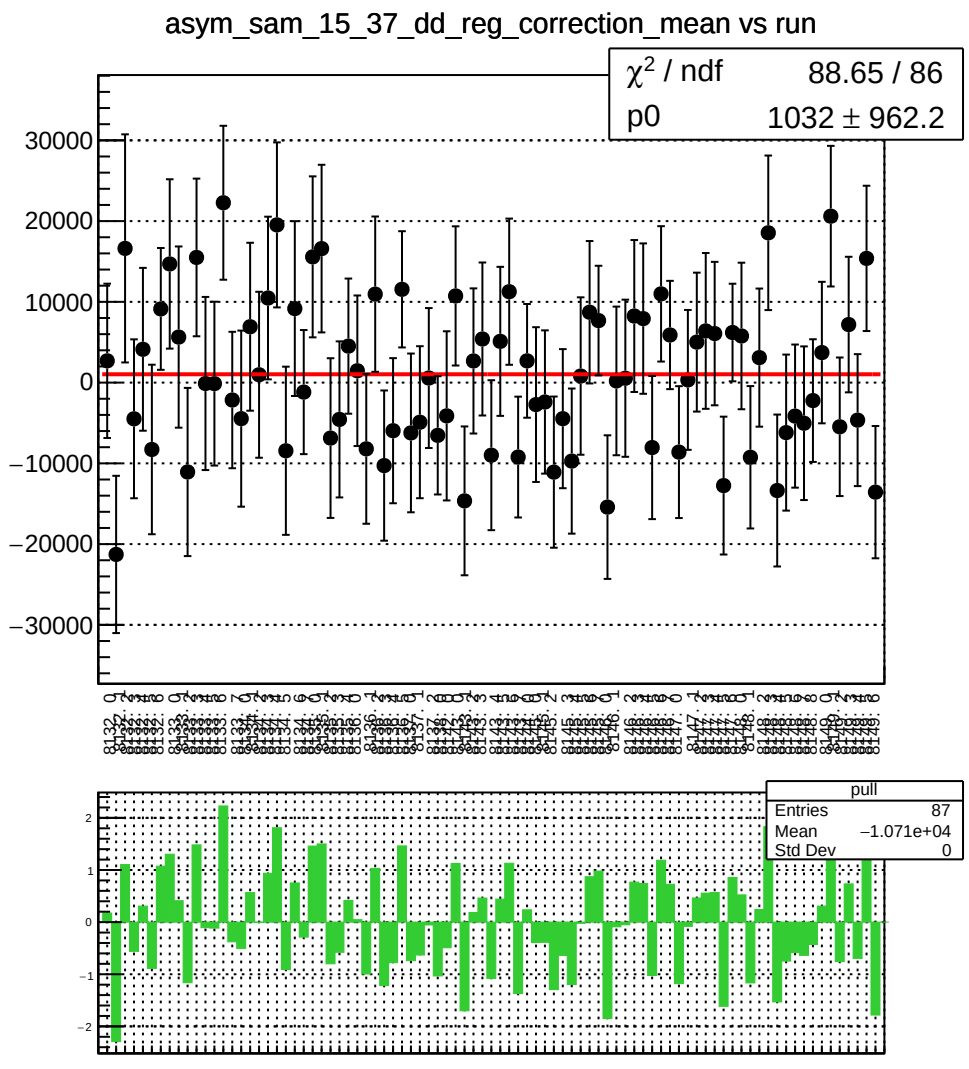

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.197e+05 / 86
p0 12.6 ± 0.01065
45
40
35
30
25
20
15
10
5

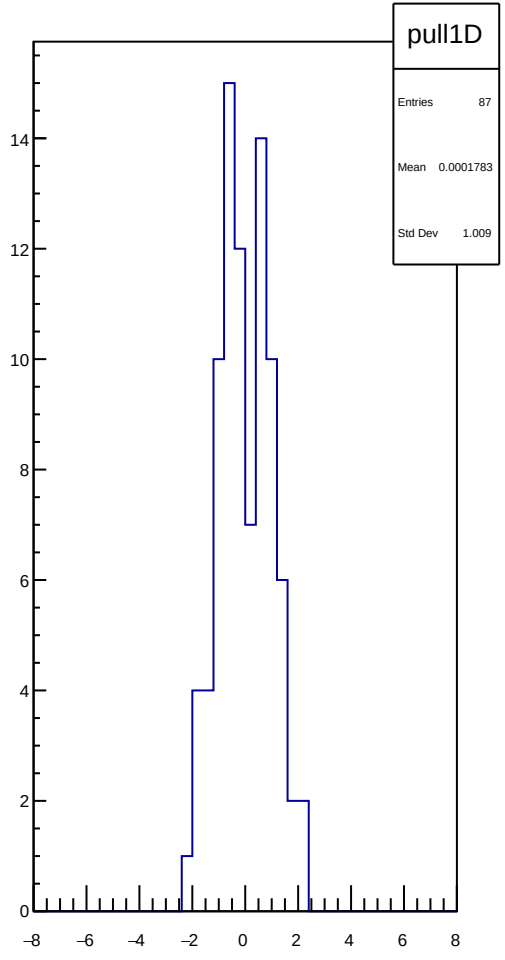

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.23 / 86
p0 −1.484e−14 ± 3.203e−14
pull
Entries 87
Mean 28.14
Std Dev 36.09
pull1D
Entries 87
Mean −0.05098
Std Dev 0.9408

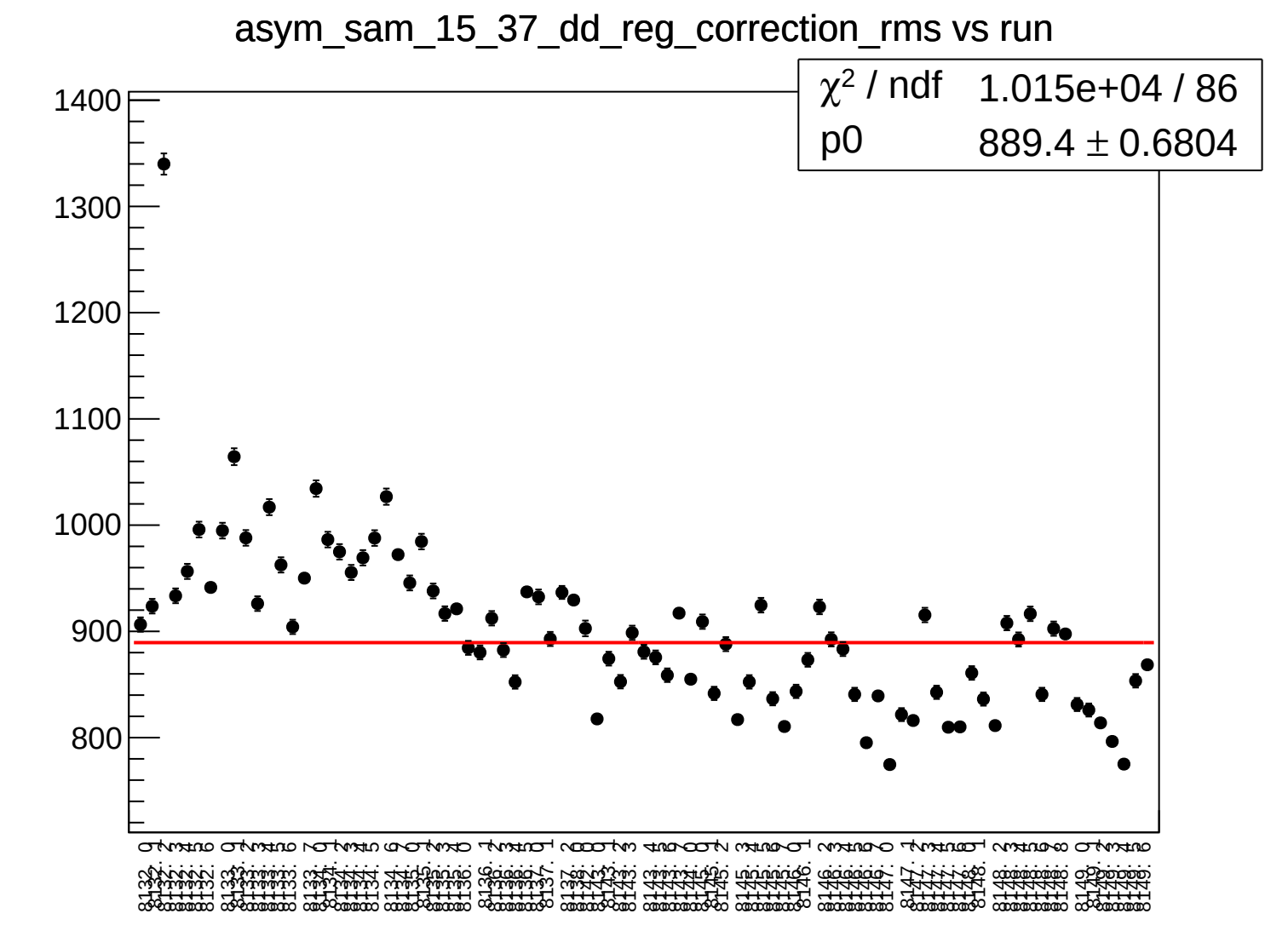

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.928e+05 / 86
p0 2.508e−11 ± 2.265e−14
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

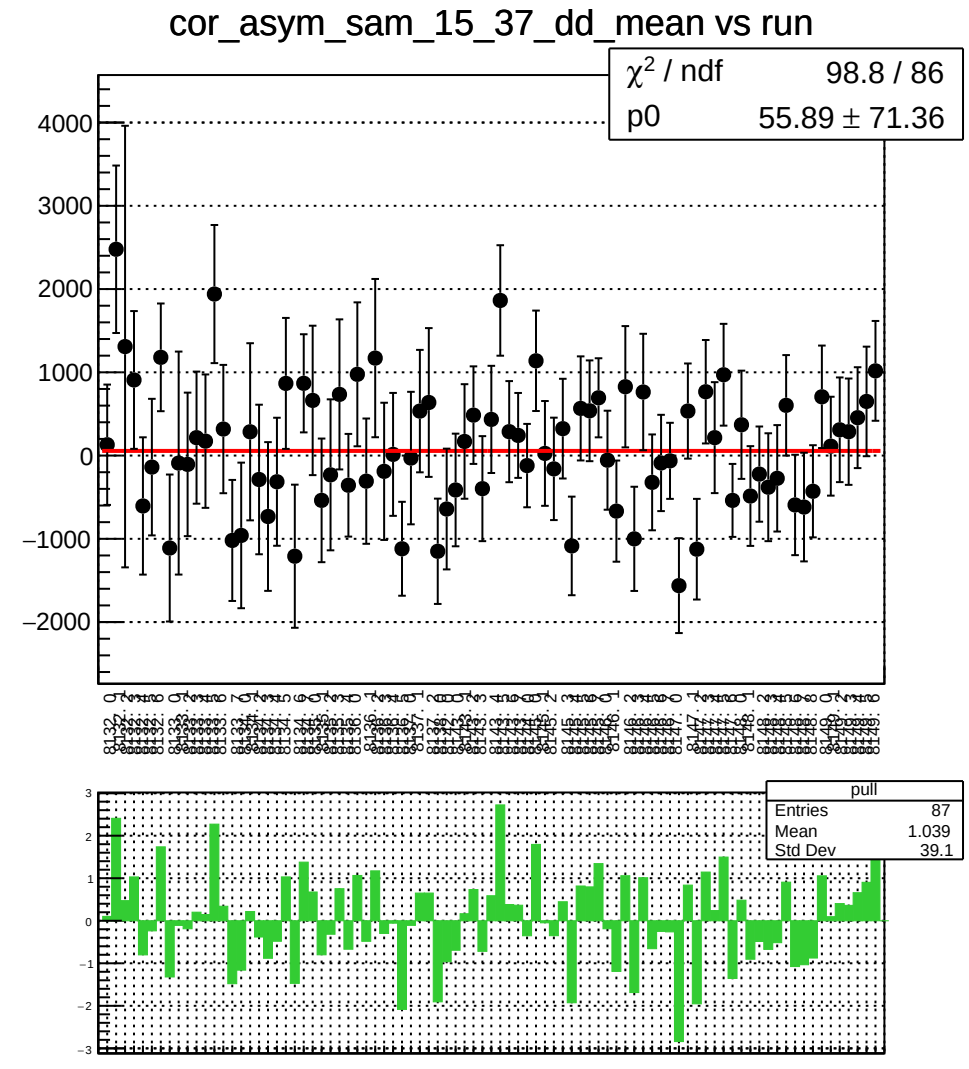

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 98.8 / 86
p0 55.87 ± 71.36
pull
Entries 87
Mean 1.037
Std Dev 39.1
pull1D
Entries 87
Mean 0.02851
Std Dev 1.065

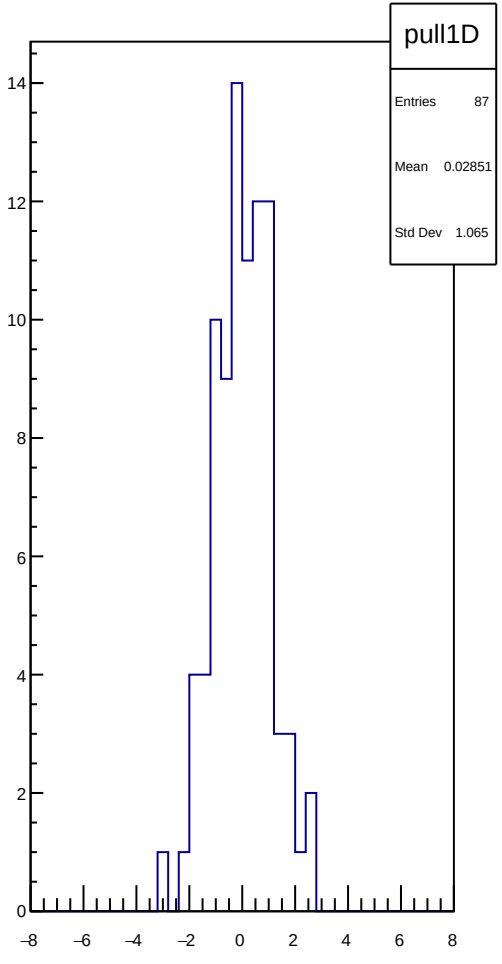

reg_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 5.317e+04 / 86
p0 65.12 ± 0.05046
250
200
150
100
50

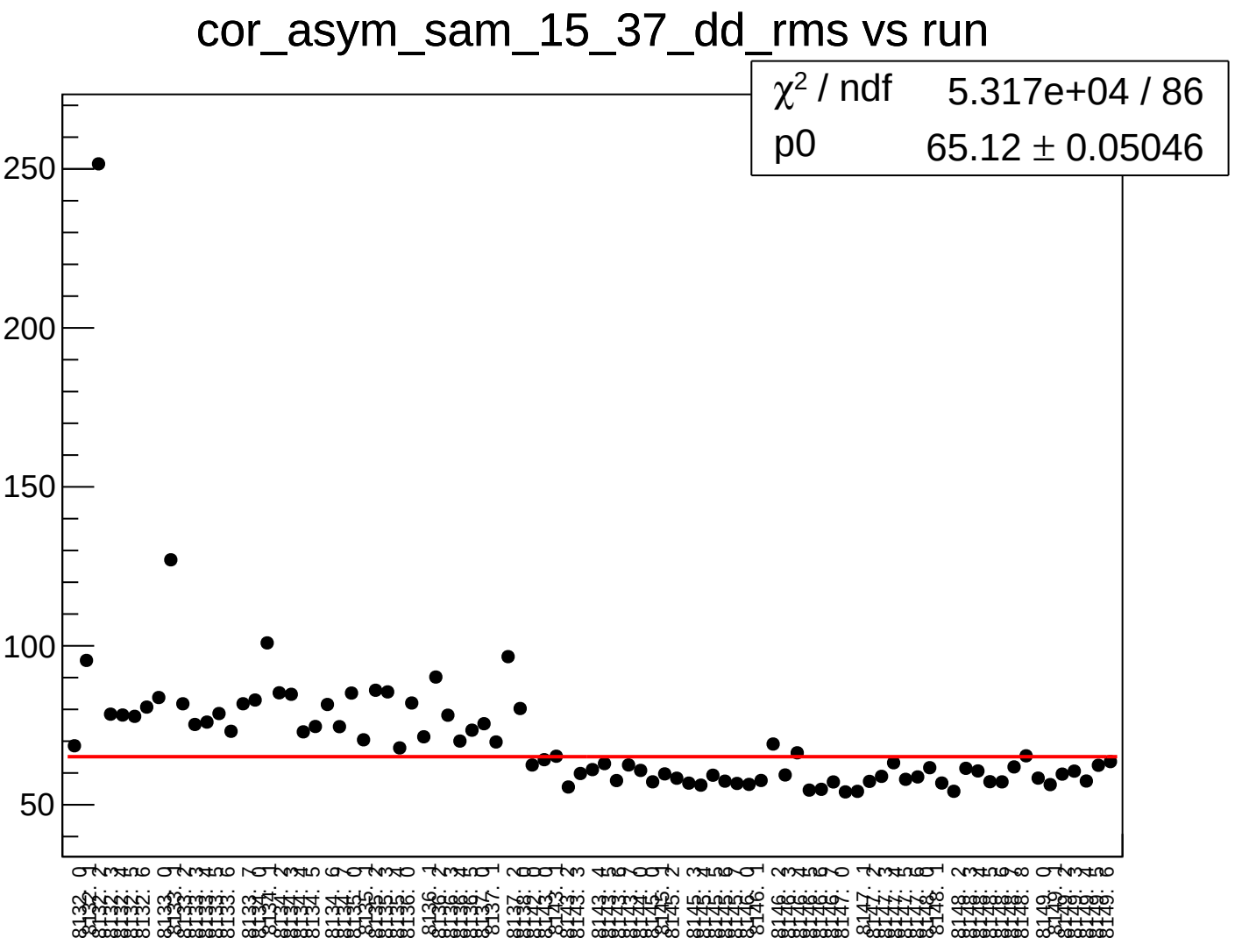

asym_sam_15_37_dd_reg_correction_mean vs run
χ² / ndf 88.65 / 86
p0 1032 ± 962.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean −1.071e+04
Std Dev 0
2
1
0
−1
−2

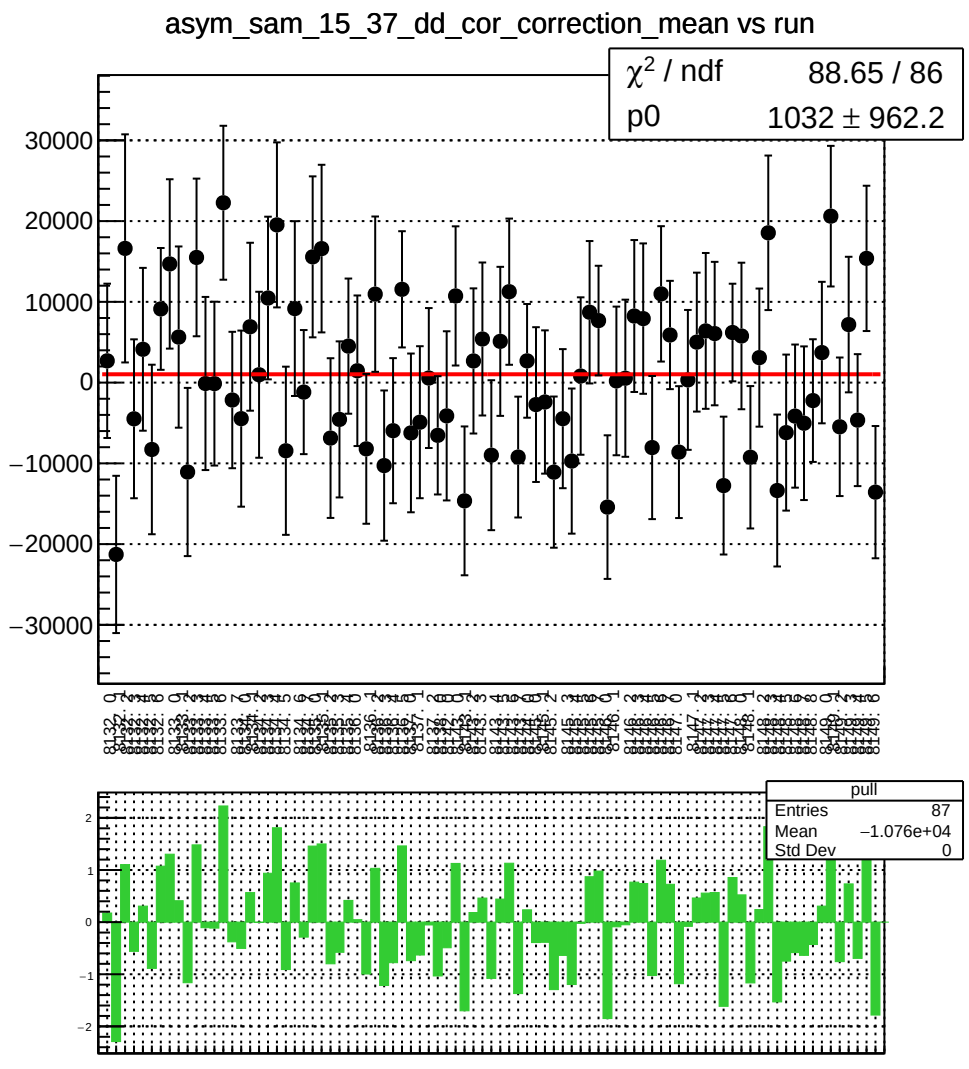

pull1D
Entries 87
Mean 0.0001783
Std Dev 1.009
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

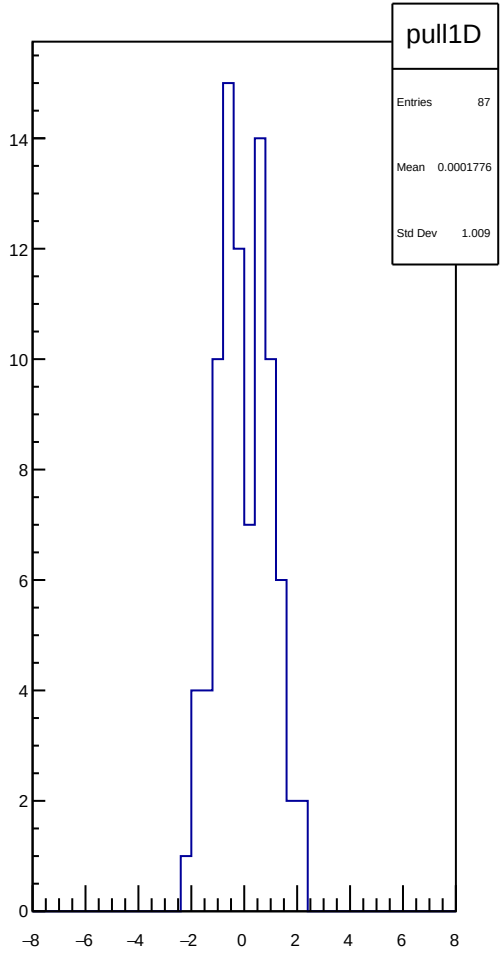

asym_sam_15_37_dd_reg_correction_rms vs run
χ² / ndf 1.015e+04 / 86
p0 889.4 ± 0.6804
1400
1300
1200
1100
1000
900
800

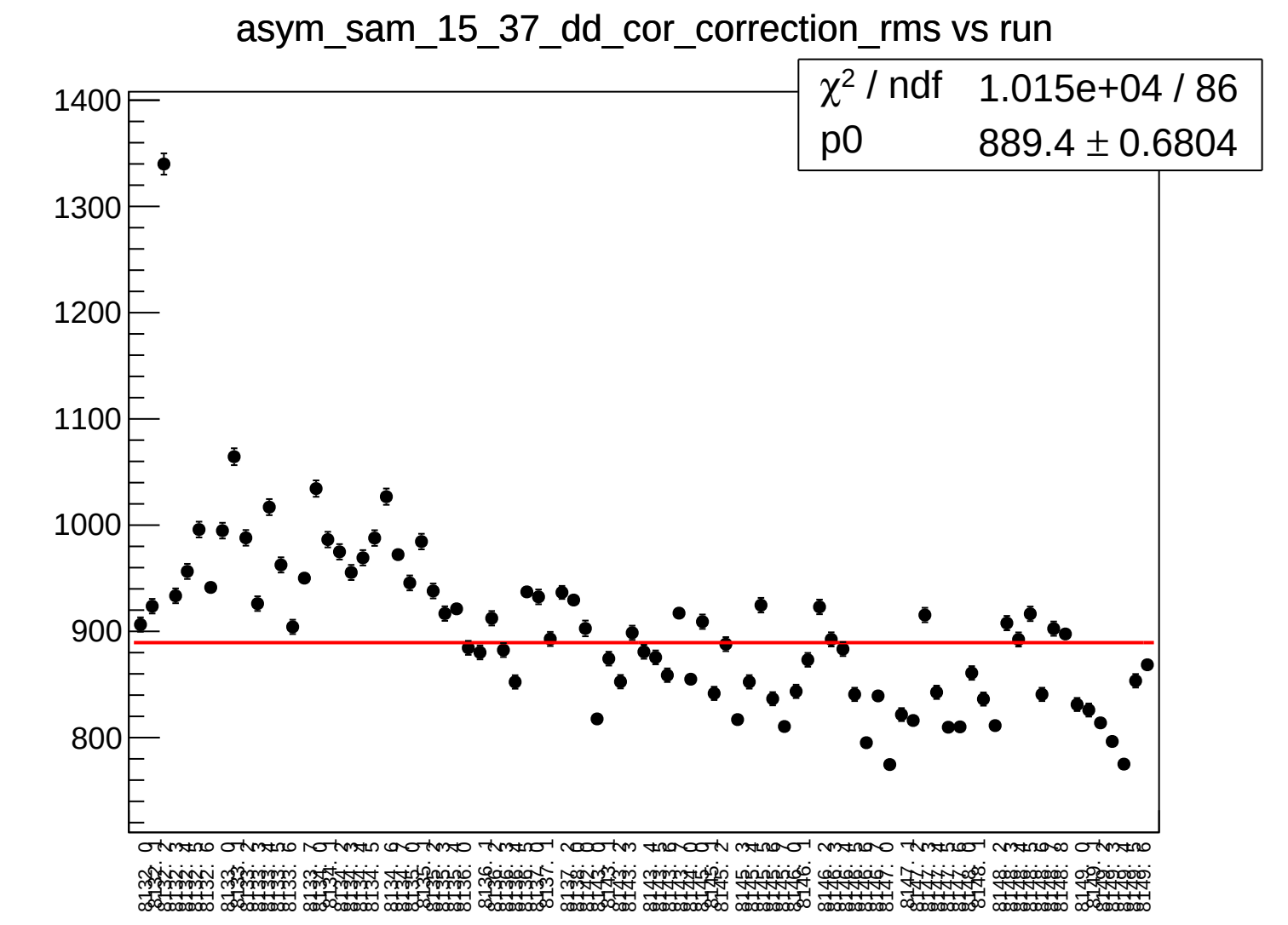

cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 98.8 / 86
p0 55.89 ± 71.36
pull
Entries 87
Mean 1.039
Std Dev 39.1

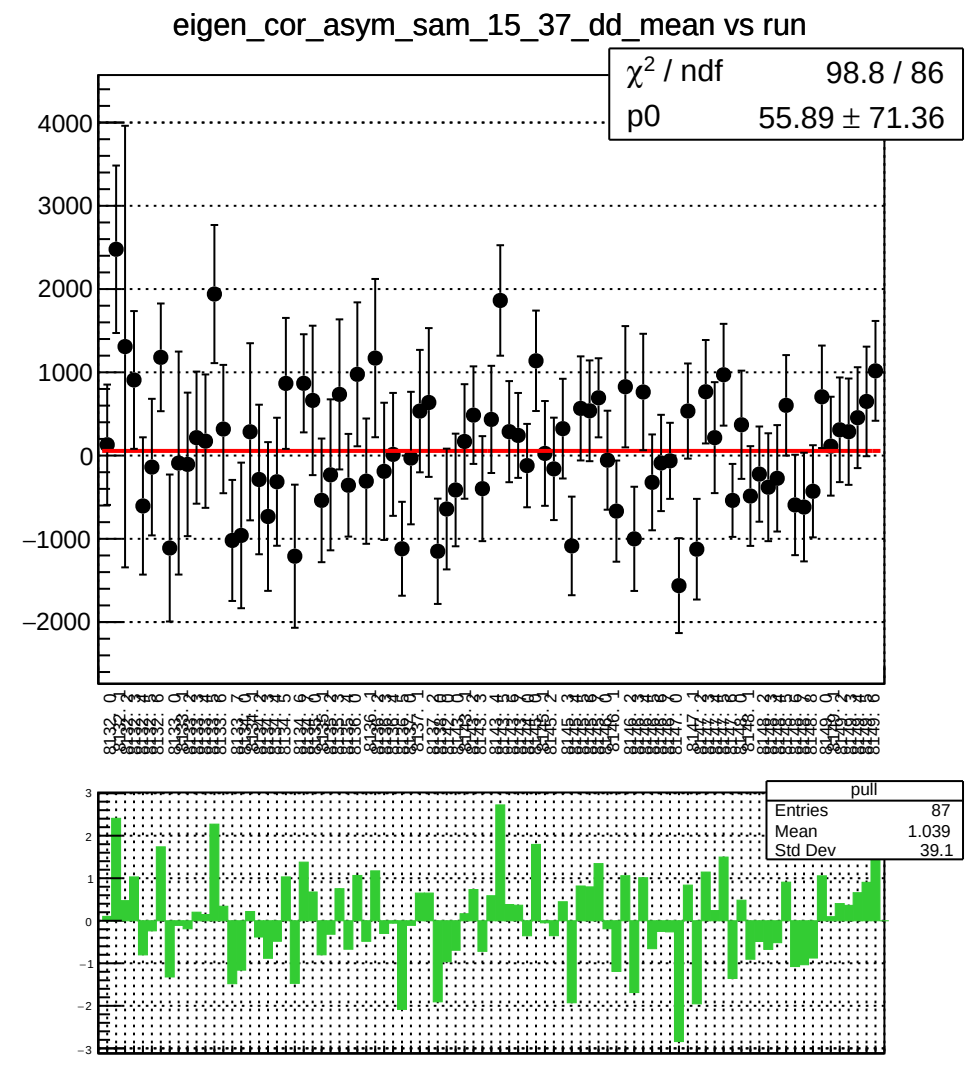

pull1D
Entries 87
Mean 0.02851
Std Dev 1.065

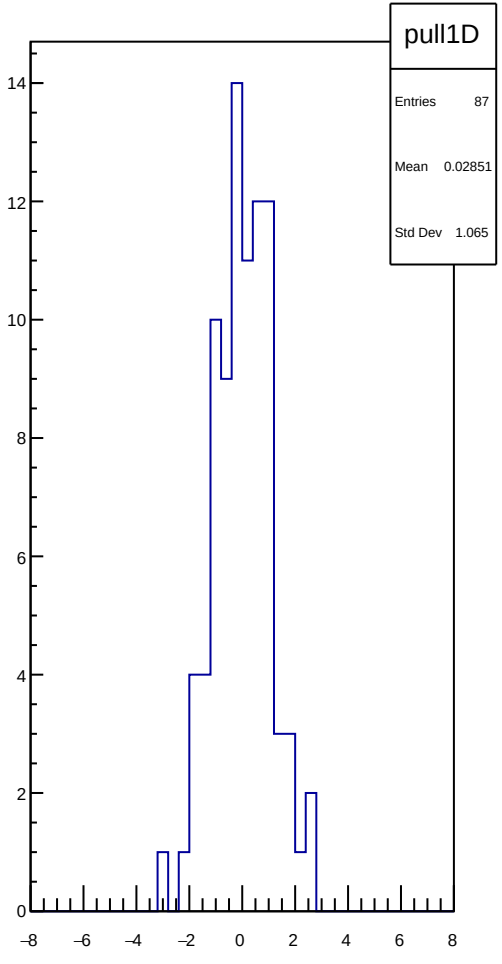

cor_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 5.317e+04 / 86
p0 65.12 ± 0.05046
250
200
150
100
50

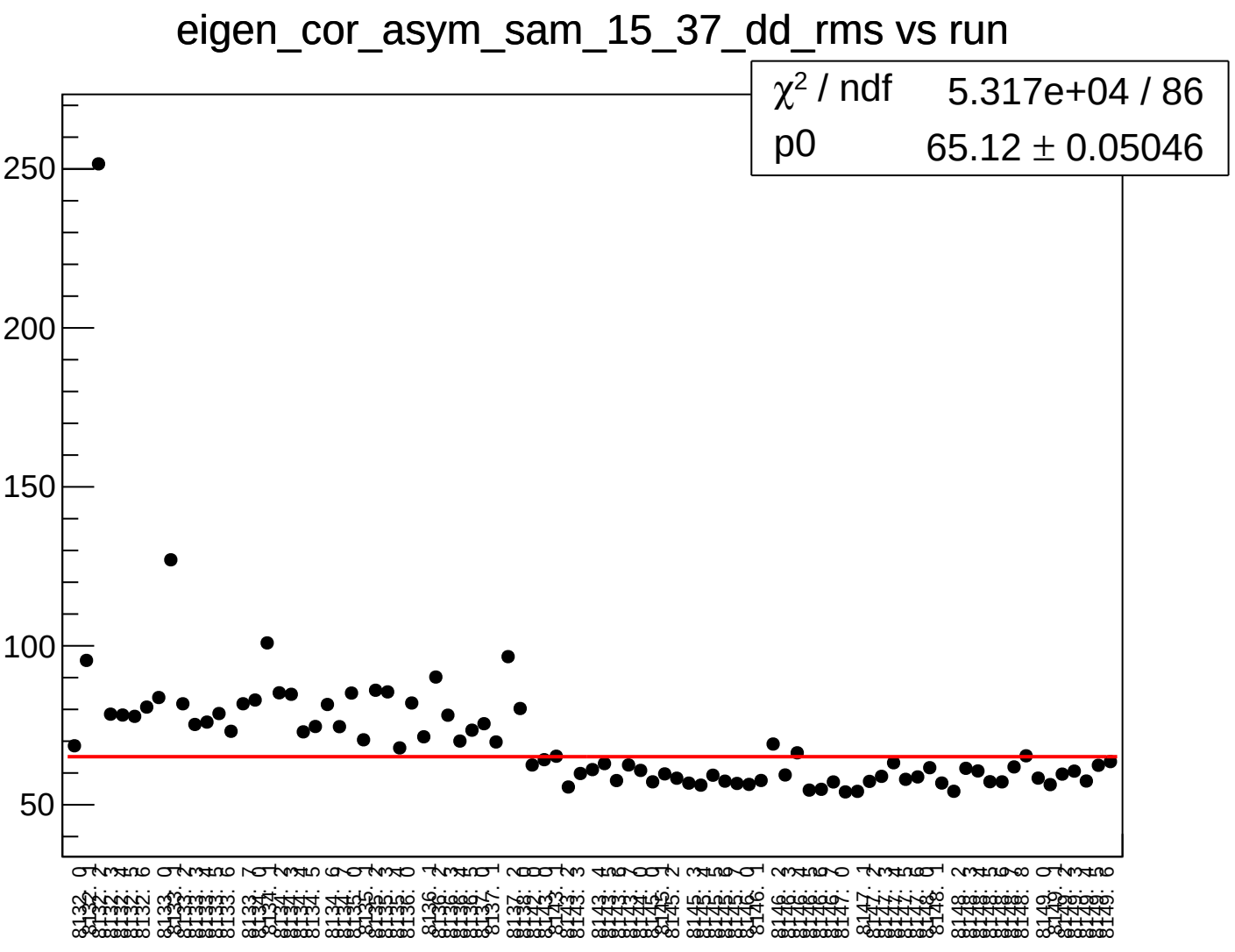

asym_sam_15_37_dd_cor_correction_mean vs run
χ² / ndf 88.65 / 86
p0 1032 ± 962.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean −1.076e+04
Std Dev 0
2
1
0
−1
−2

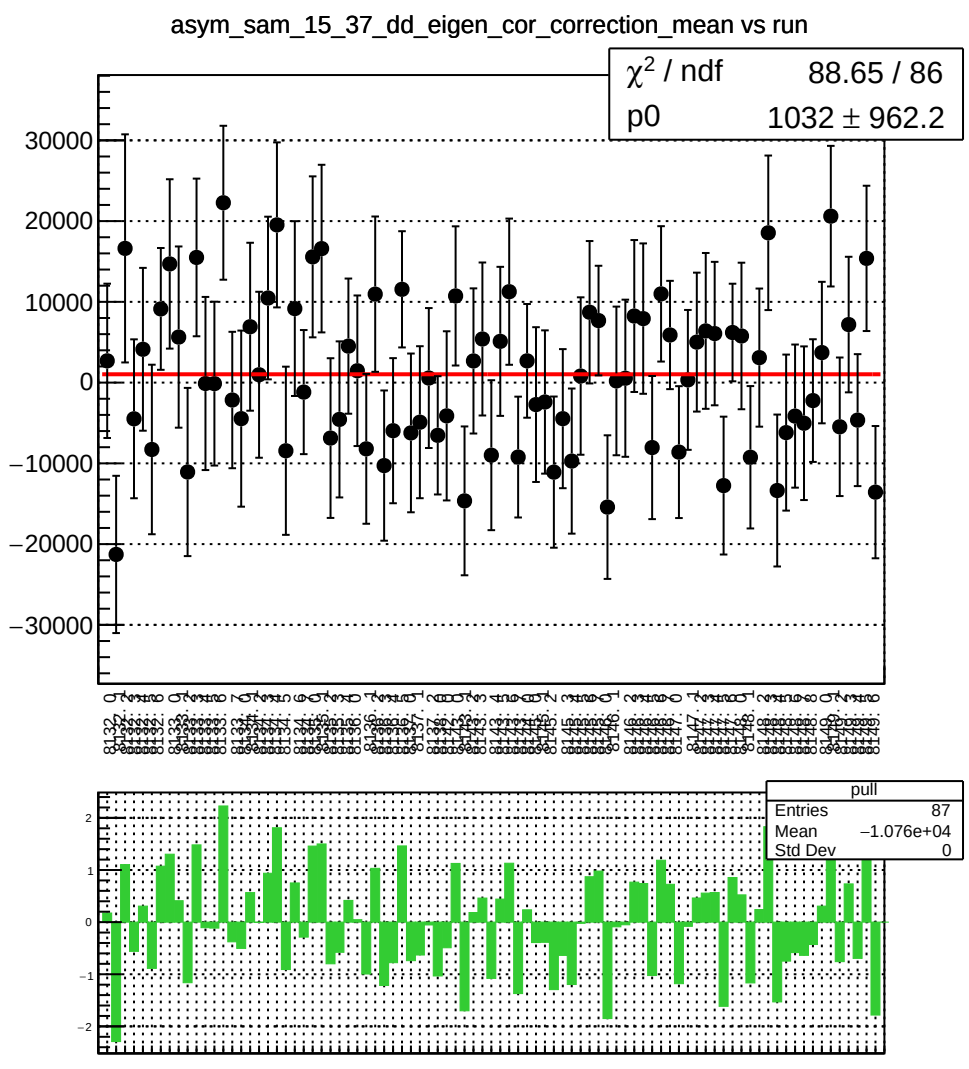

pull1D
Entries 87
Mean 0.0001776
Std Dev 1.009
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

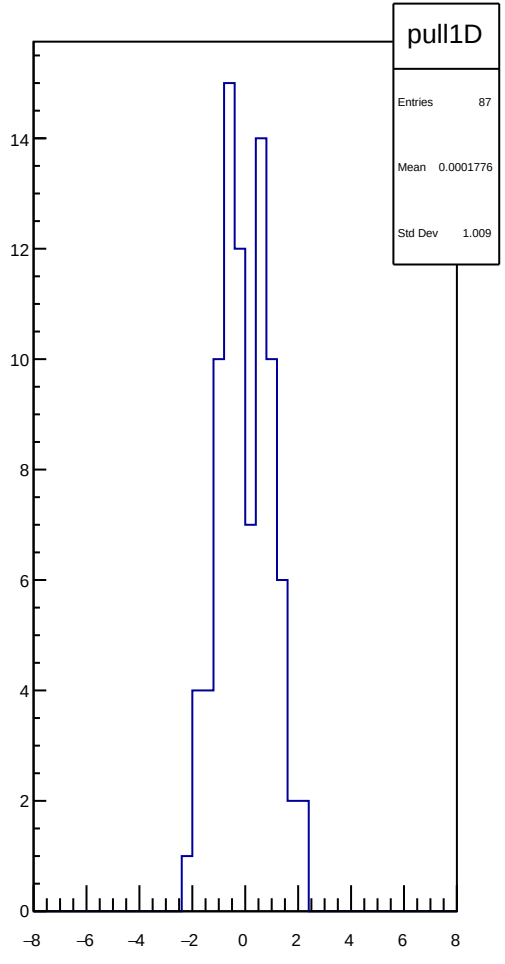

asym_sam_15_37_dd_cor_correction_rms vs run
χ² / ndf 1.015e+04 / 86
p0 889.4 ± 0.6804
1400
1300
1200
1100
1000
900
800

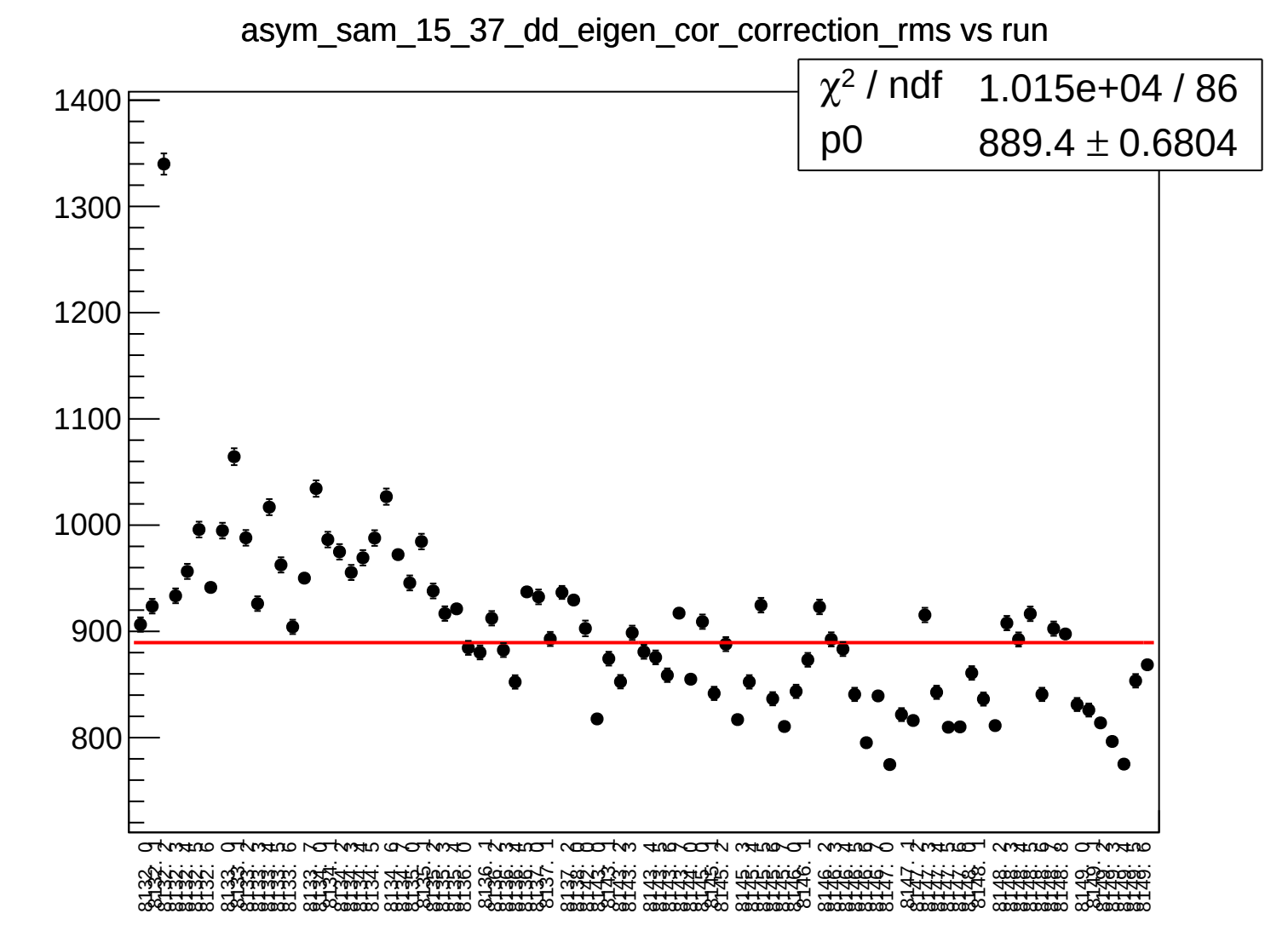

eigen_cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 98.8 / 86
p0 55.89 ± 71.36
pull
Entries 87
Mean 1.039
Std Dev 39.1

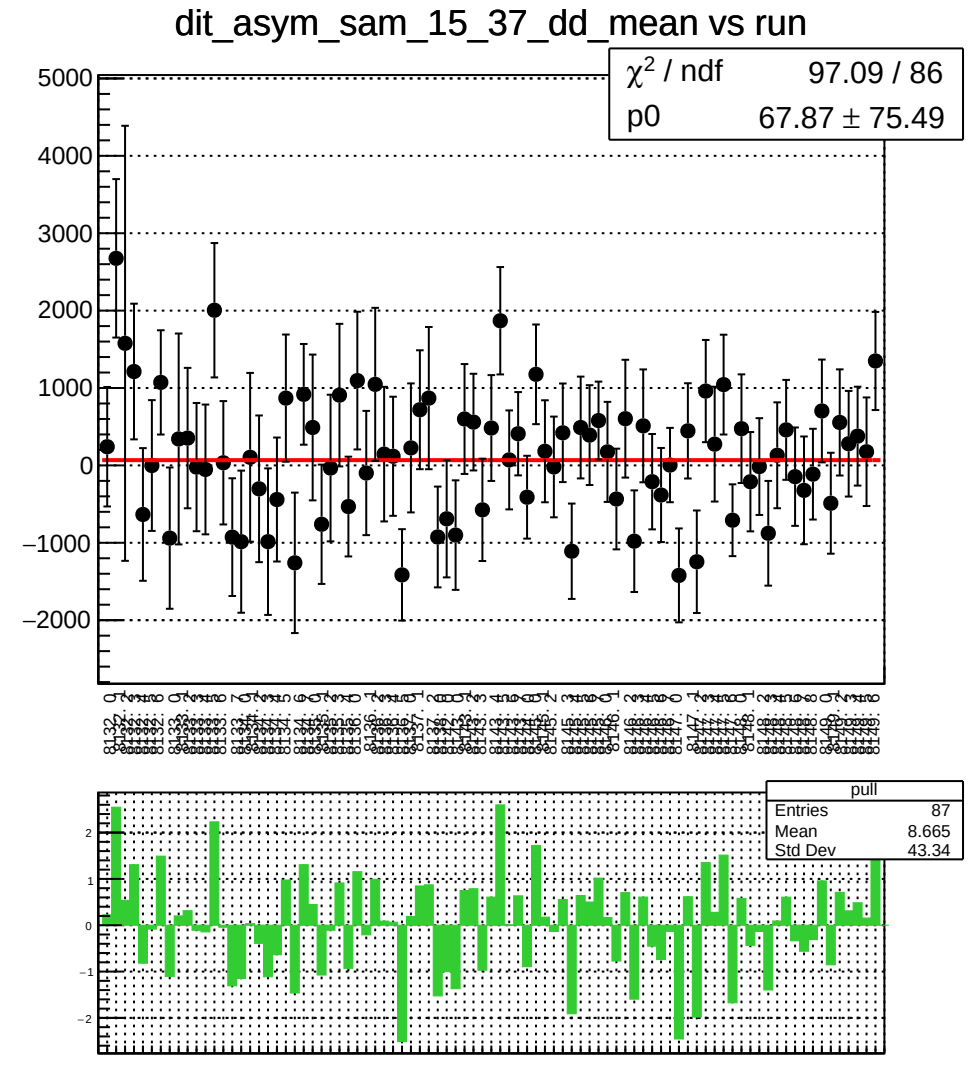

pull1D
Entries 87
Mean 0.02851
Std Dev 1.065

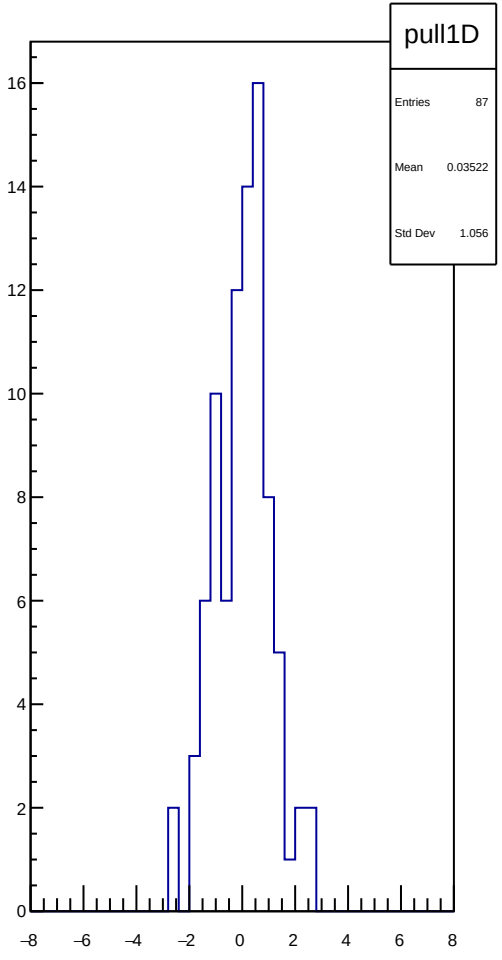

eigen_cor_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 5.317e+04 / 86
p0 65.12 ± 0.05046
250
200
150
100
50

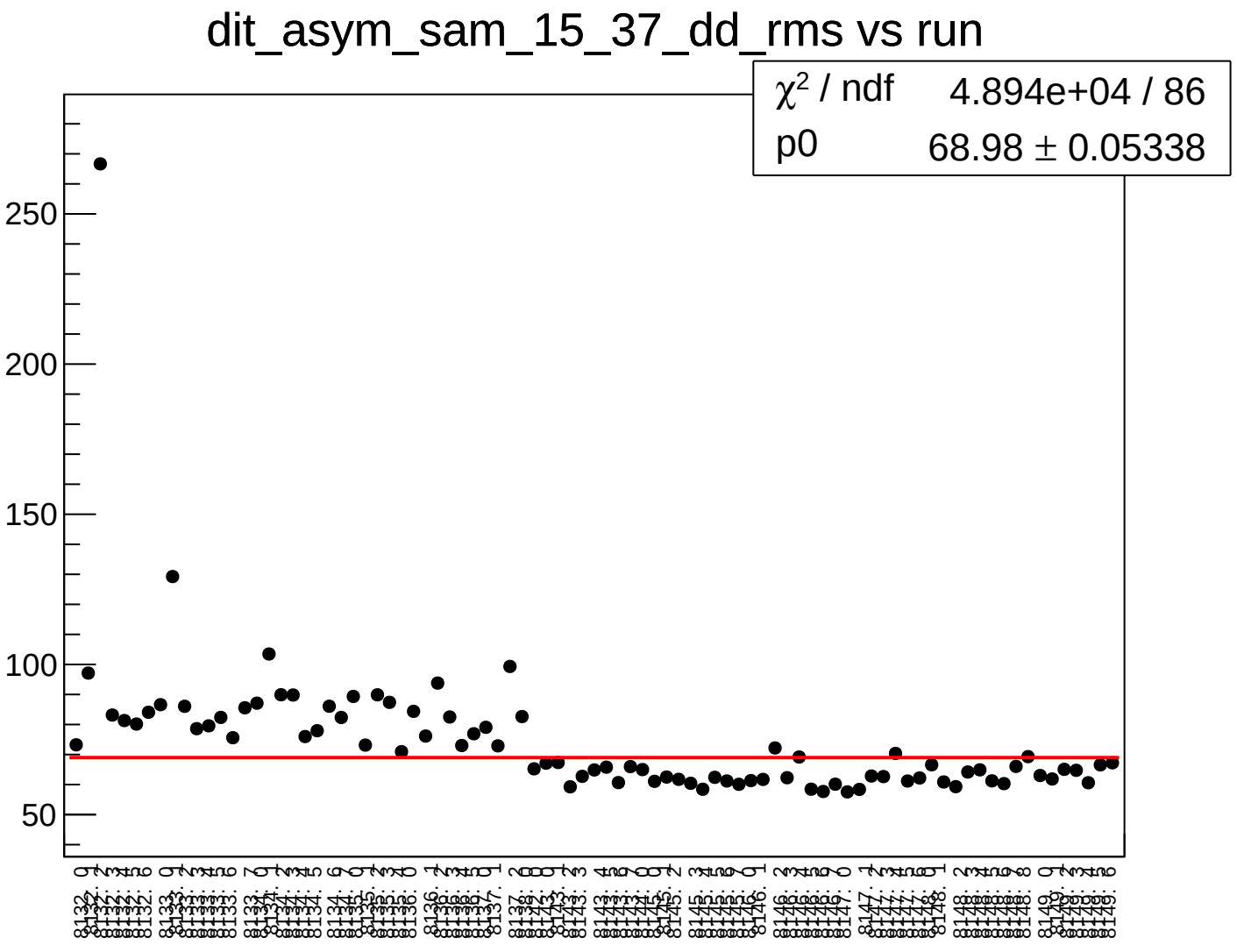

asym_sam_15_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 88.65 / 86
p0 1032 ± 962.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean −1.076e+04
Std Dev 0
2
1
0
−1
−2

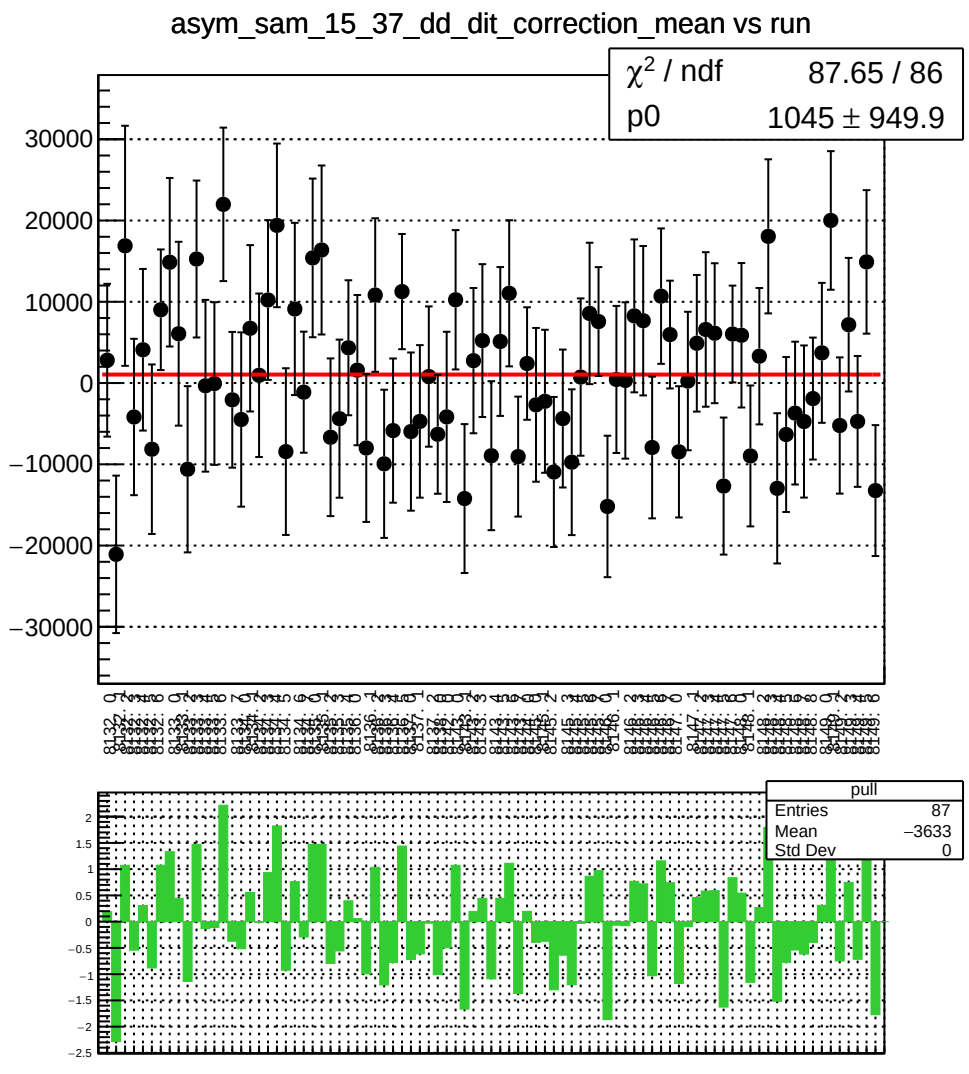

pull1D
Entries 87
Mean 0.0001776
Std Dev 1.009
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

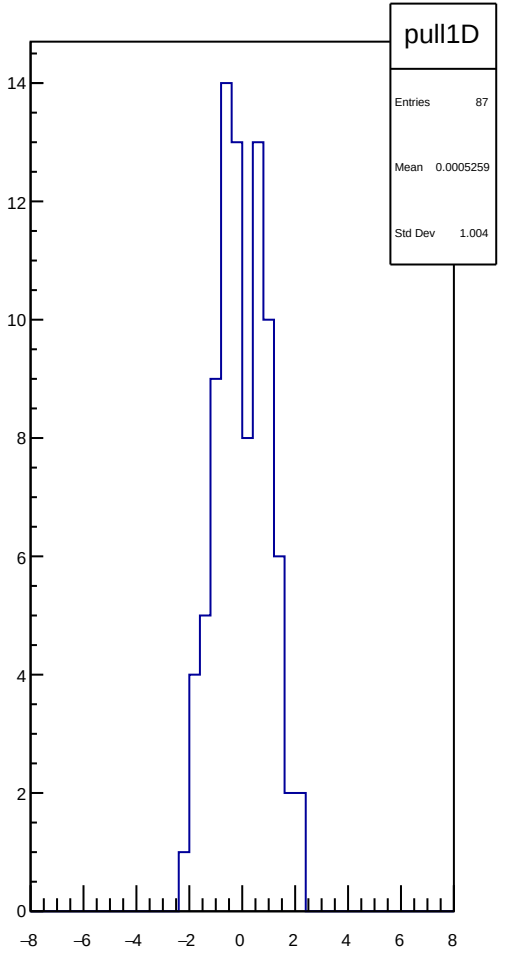

asym_sam_15_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.015e+04 / 86
p0 889.4 ± 0.6804
1400
1300
1200
1100
1000
900
800

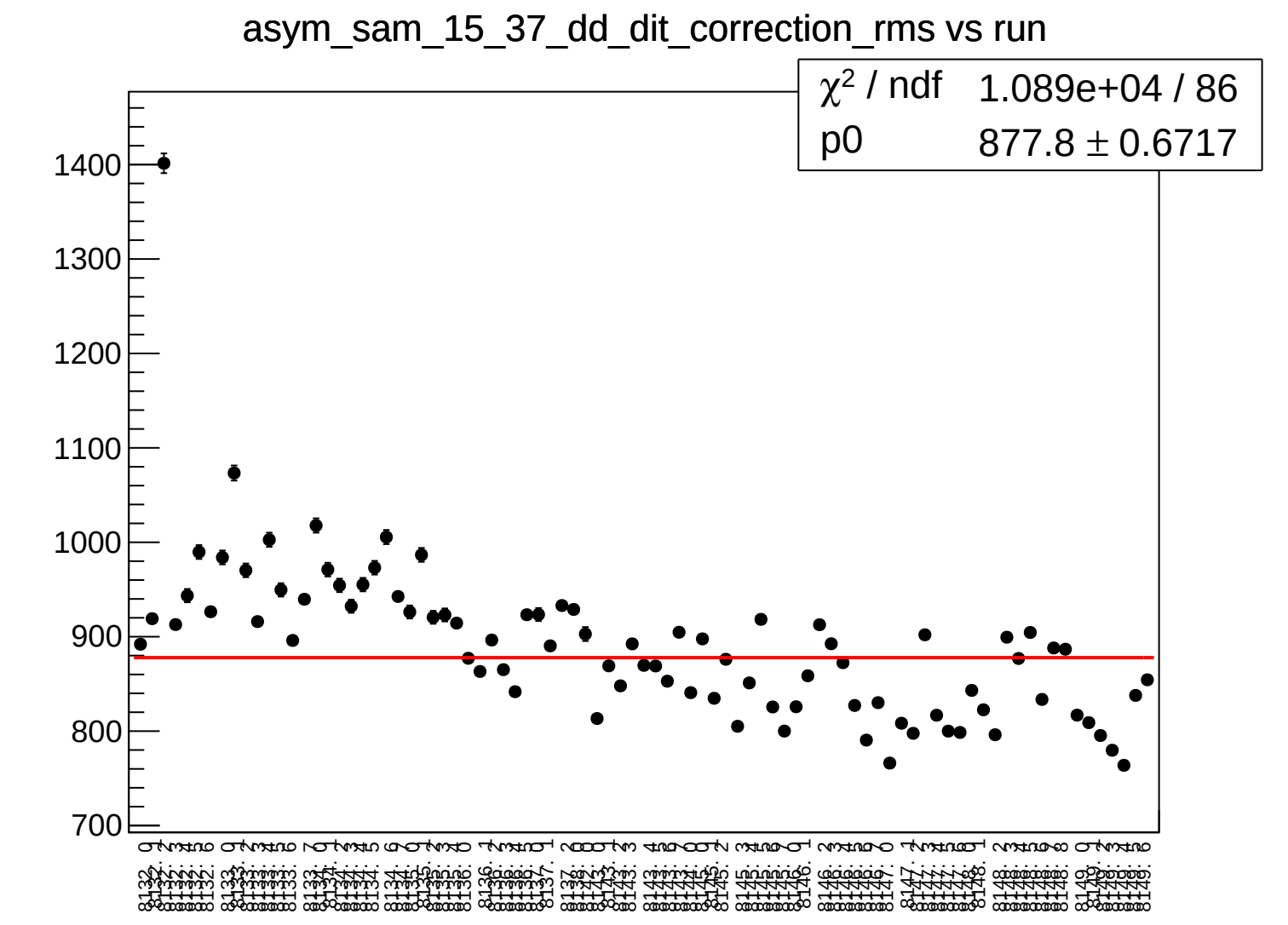

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 97.09 / 86
p0 67.87 ± 75.49
pull
Entries 87
Mean 8.665
Std Dev 43.34

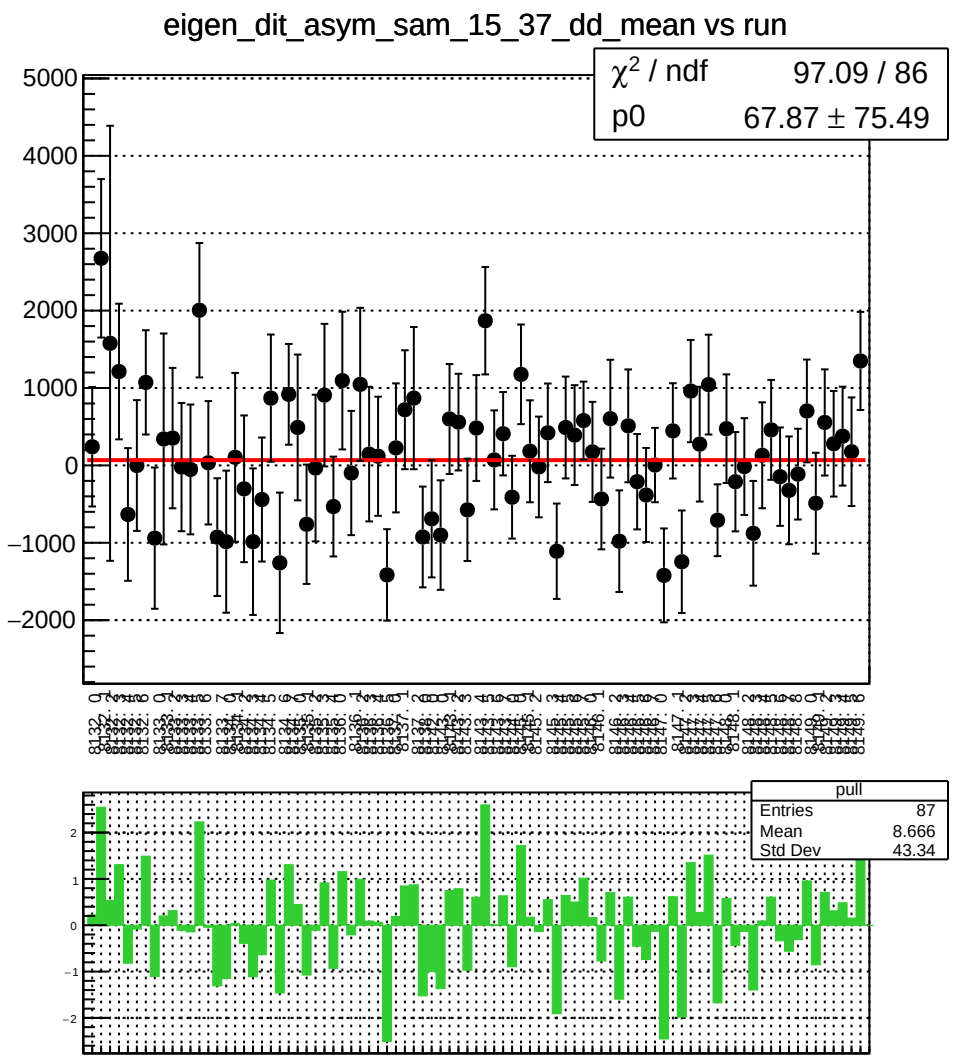

pull1D
Entries 87
Mean 0.03522
Std Dev 1.056

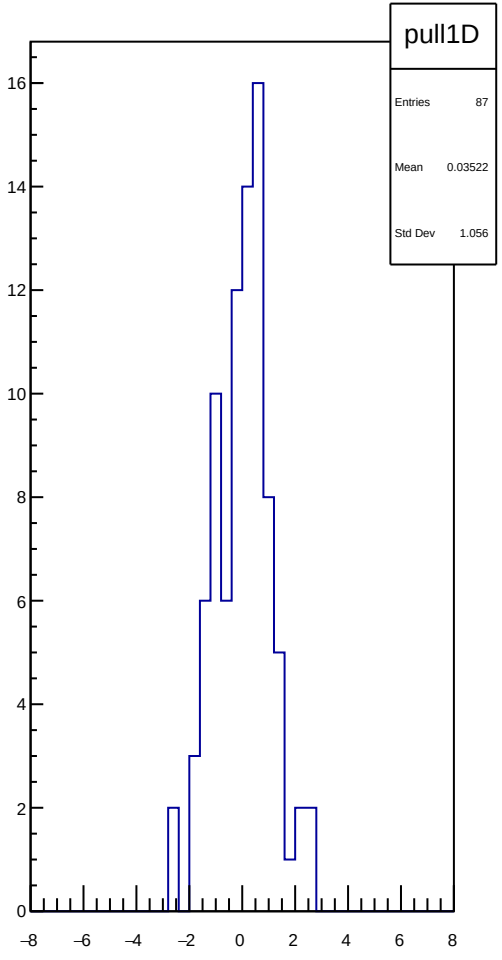

dit_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 4.894e+04 / 86
p0 68.98 ± 0.05338
250
200
150
100
50

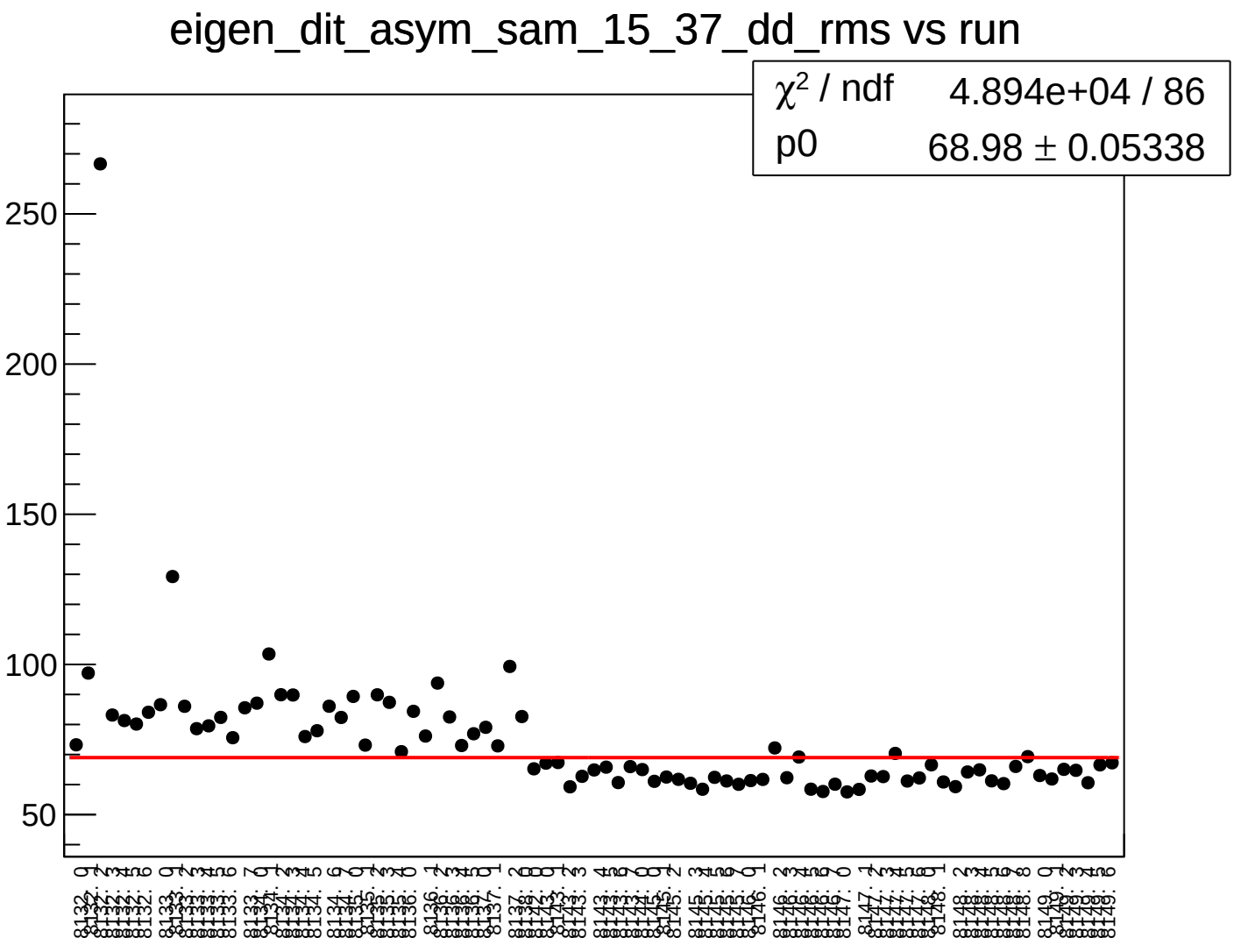

asym_sam_15_37_dd_dit_correction_mean vs run
χ² / ndf 87.65 / 86
p0 1045 ± 949.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean −3633
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

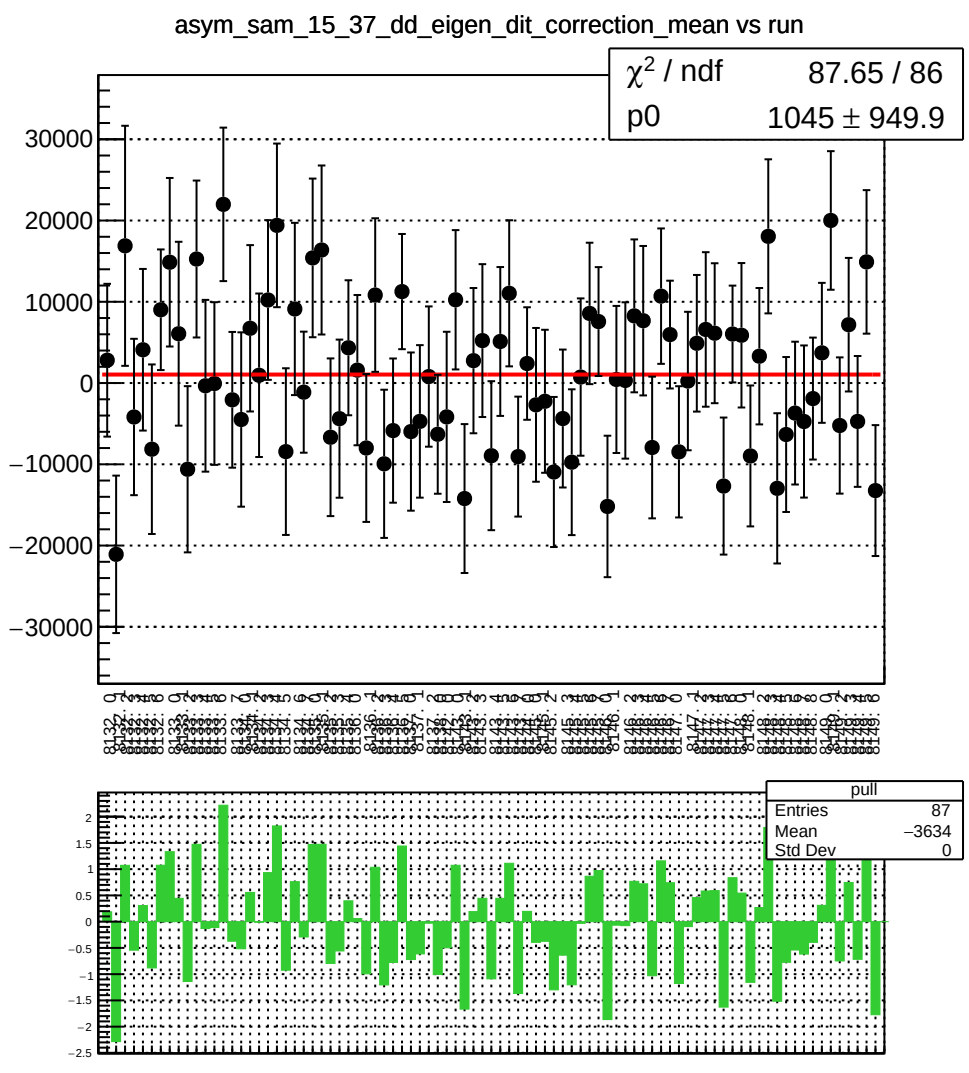

pull1D
Entries 87
Mean 0.0005259
Std Dev 1.004
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

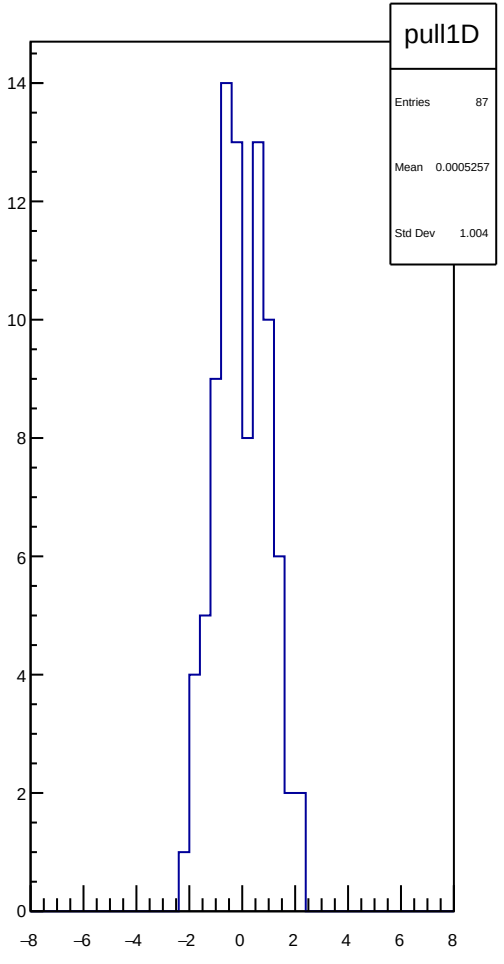

asym_sam_15_37_dd_dit_correction_rms vs run
χ² / ndf 1.089e+04 / 86
p0 877.8 ± 0.6717
1400
1300
1200
1100
1000
900
800
700

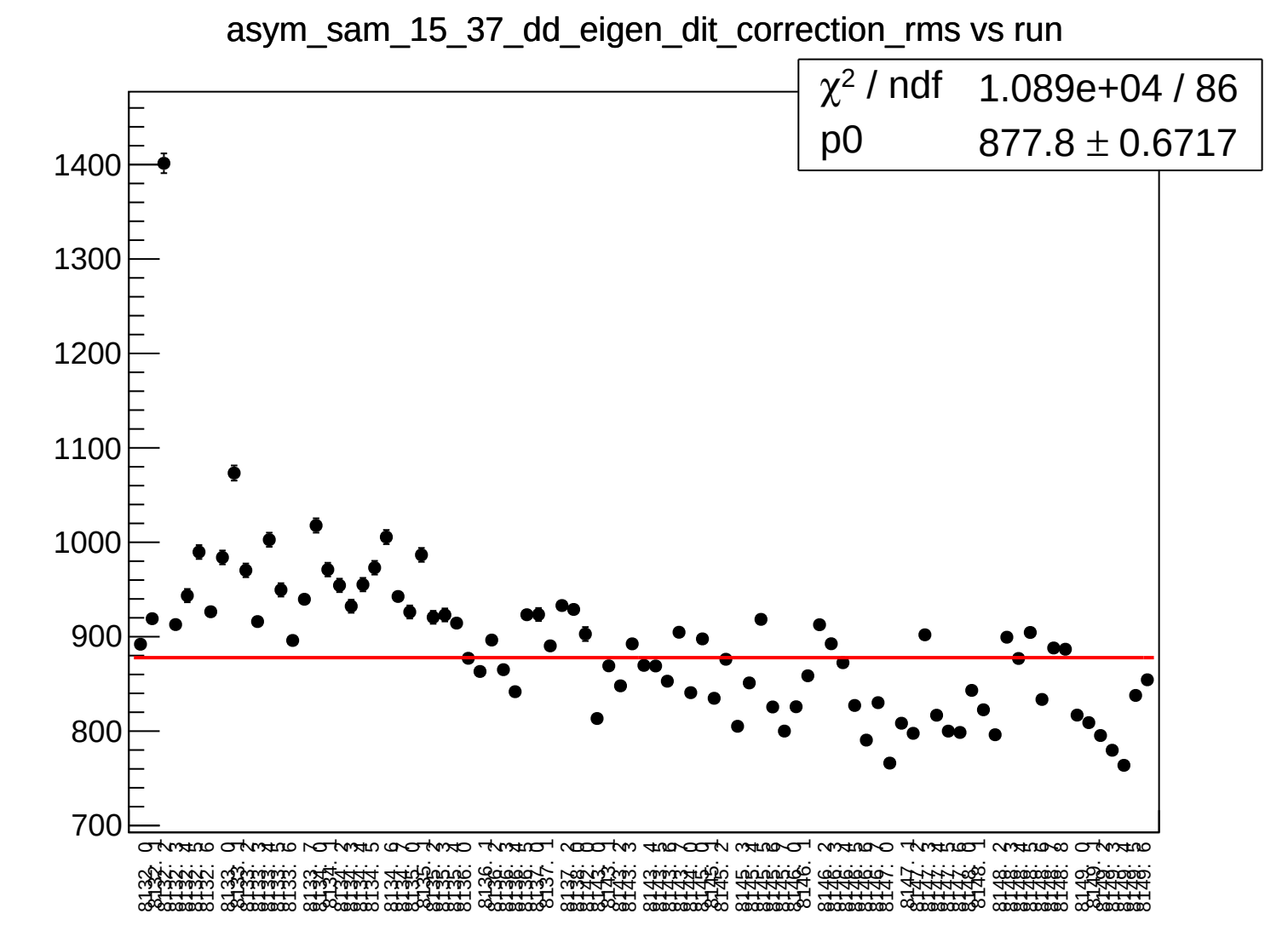

eigen_dit_asym_sam_15_37_dd_mean vs run
χ^2 / ndf 97.09 / 86
p0 67.87 ± 75.49
pull
Entries 87
Mean 8.666
Std Dev 43.34

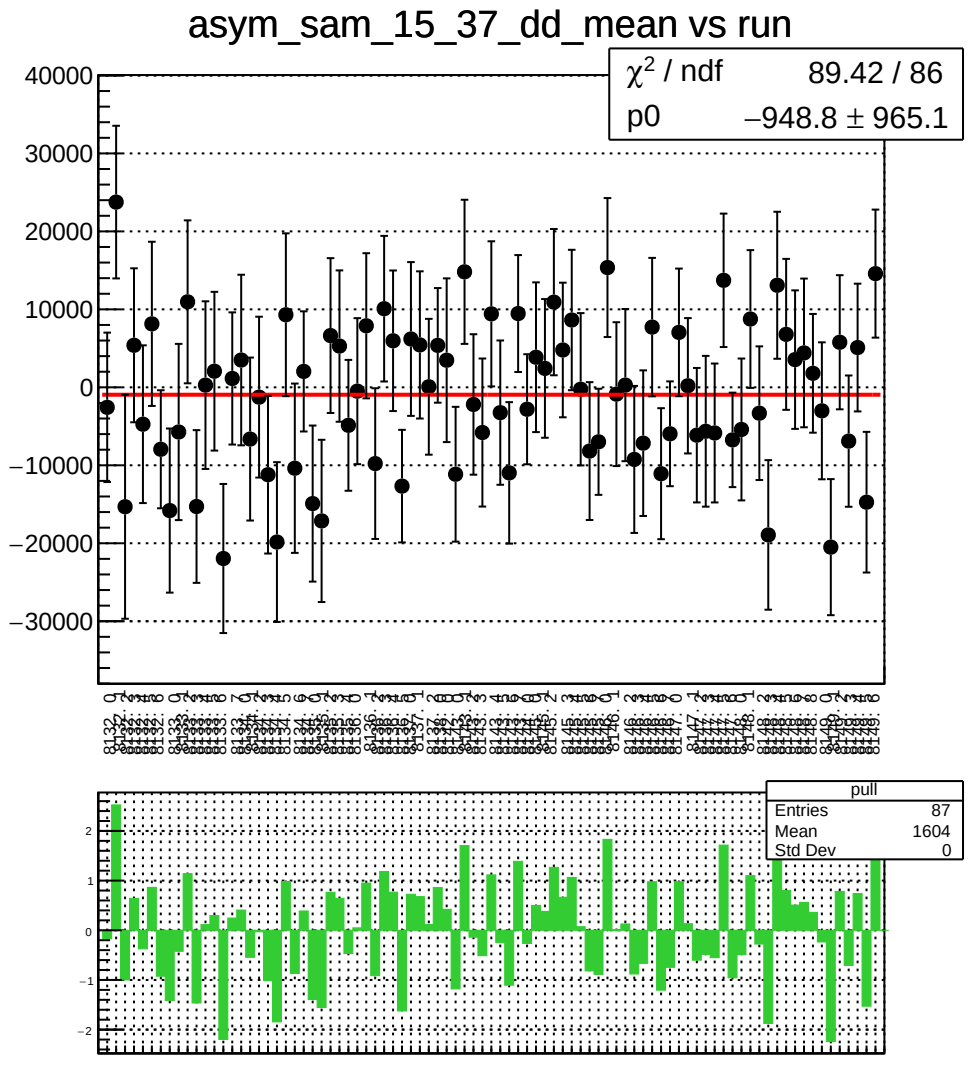

pull1D
Entries 87
Mean 0.03522
Std Dev 1.056

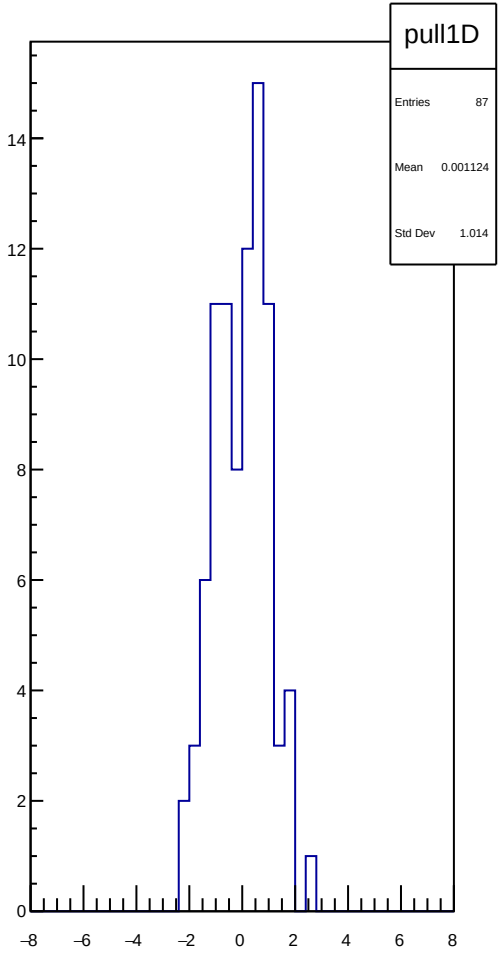

eigen_dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 4.894e+04 / 86
p0 68.98 ± 0.05338
250
200
150
100
50

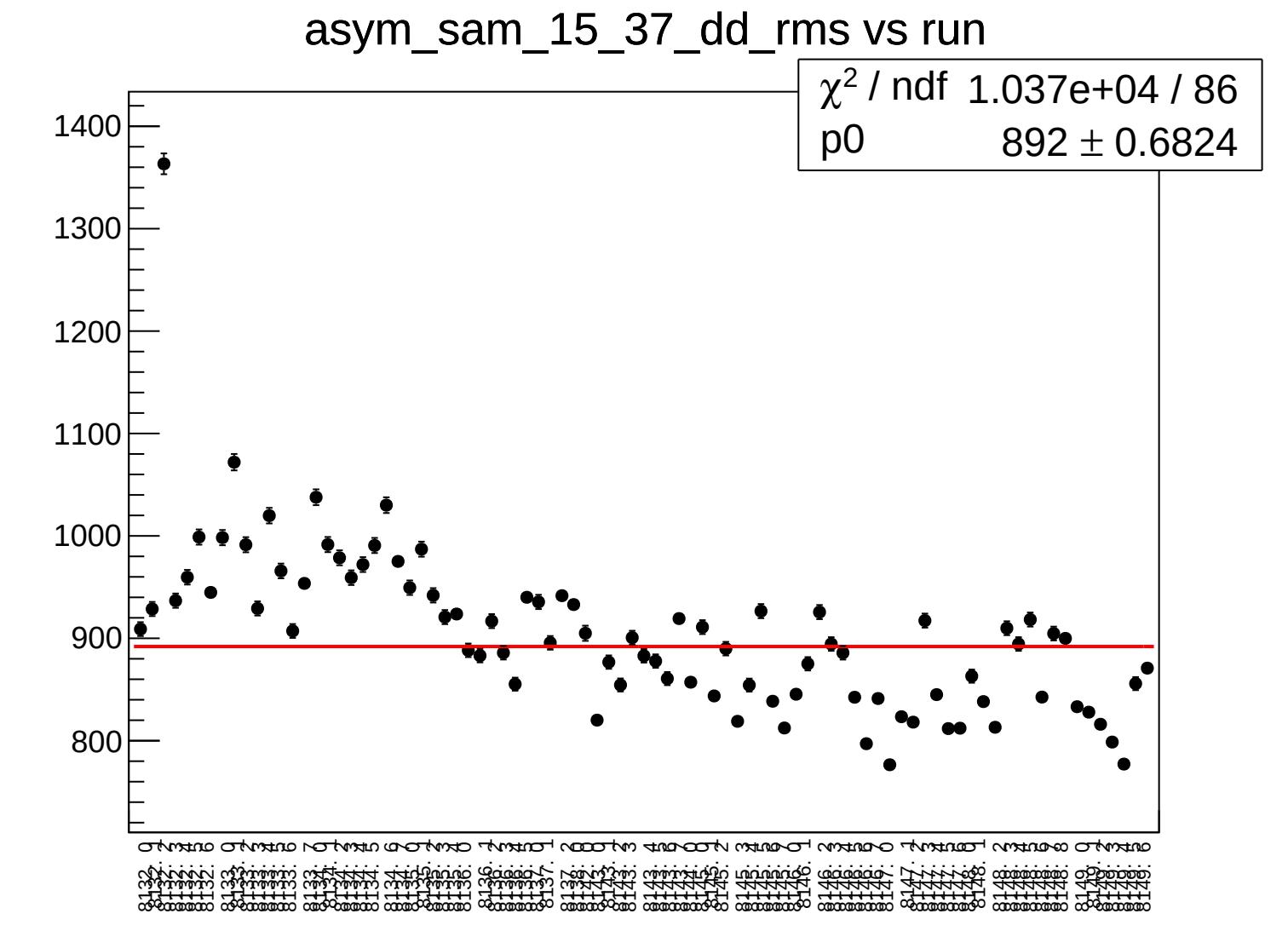

asym_sam_15_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 87.65 / 86
p0 1045 ± 949.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean −3634
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

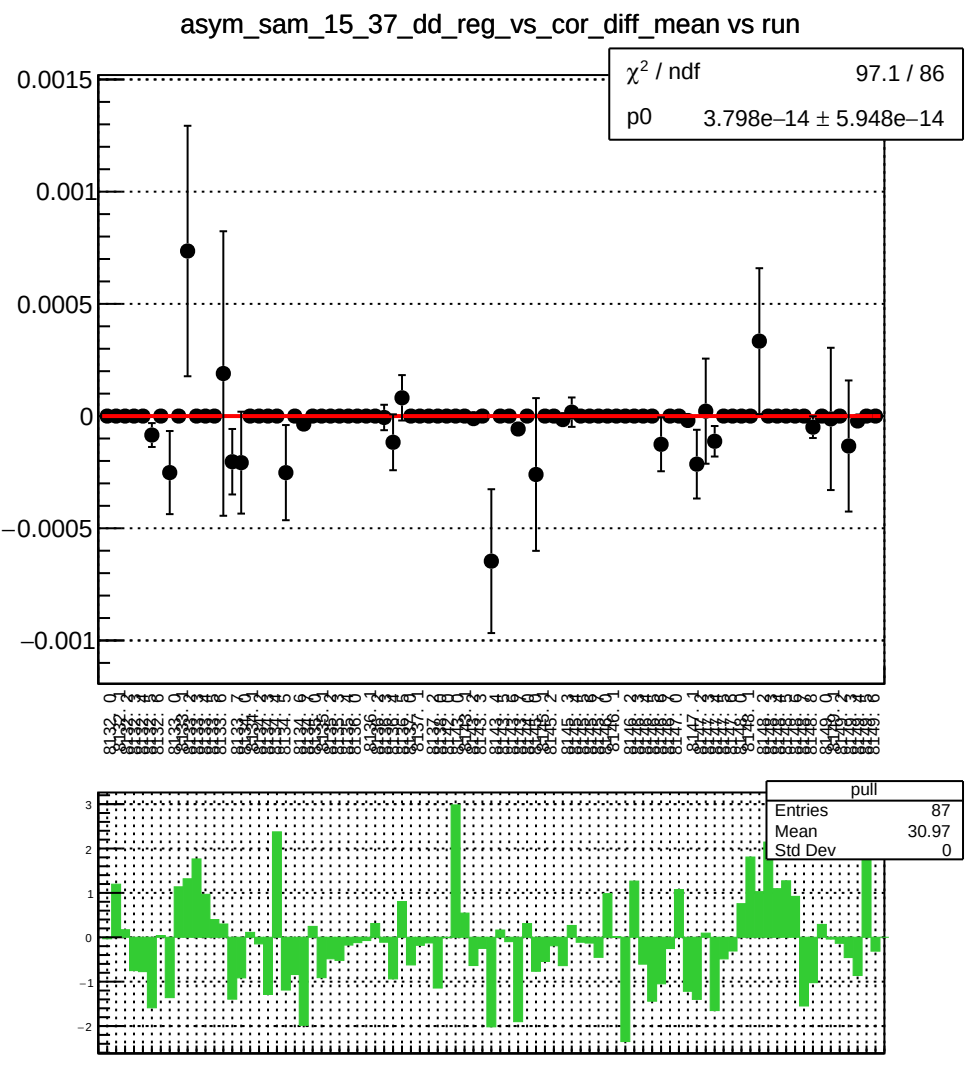

pull1D
Entries 87
Mean 0.0005257
Std Dev 1.004
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

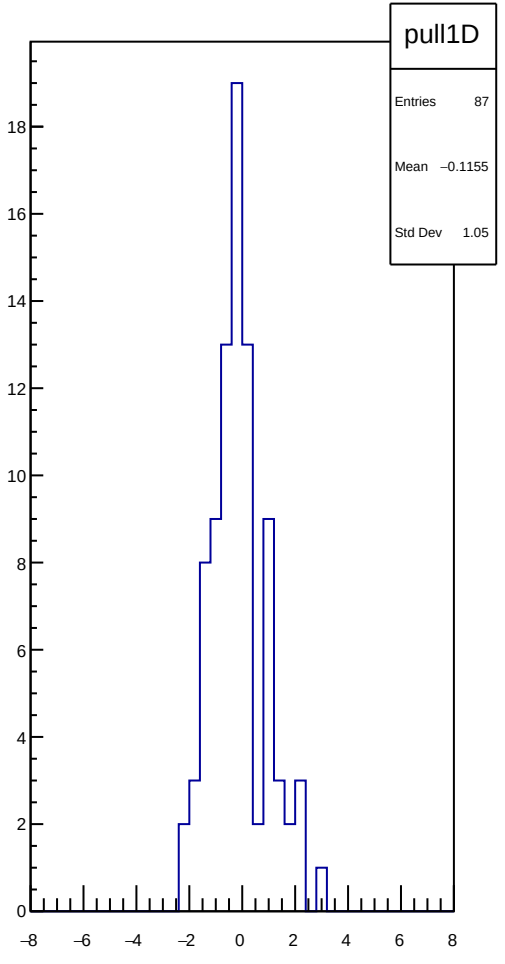

asym_sam_15_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.089e+04 / 86
p0 877.8 ± 0.6717
1400
1300
1200
1100
1000
900
800
700

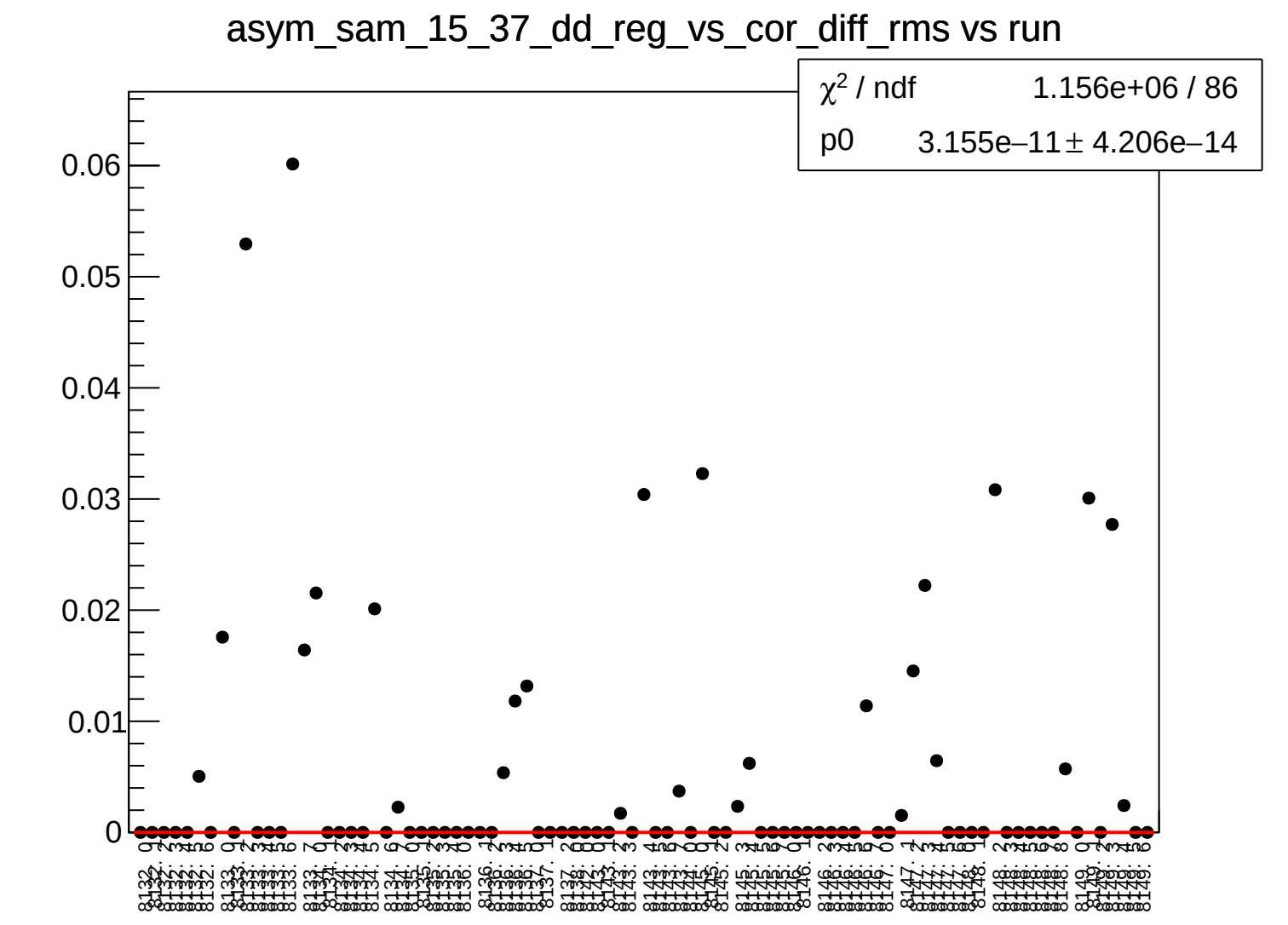

asym_sam_15_37_dd_mean vs run
χ² / ndf 89.42 / 86
p0 −948.8 ± 965.1
pull
Entries 87
Mean 1604
Std Dev 0

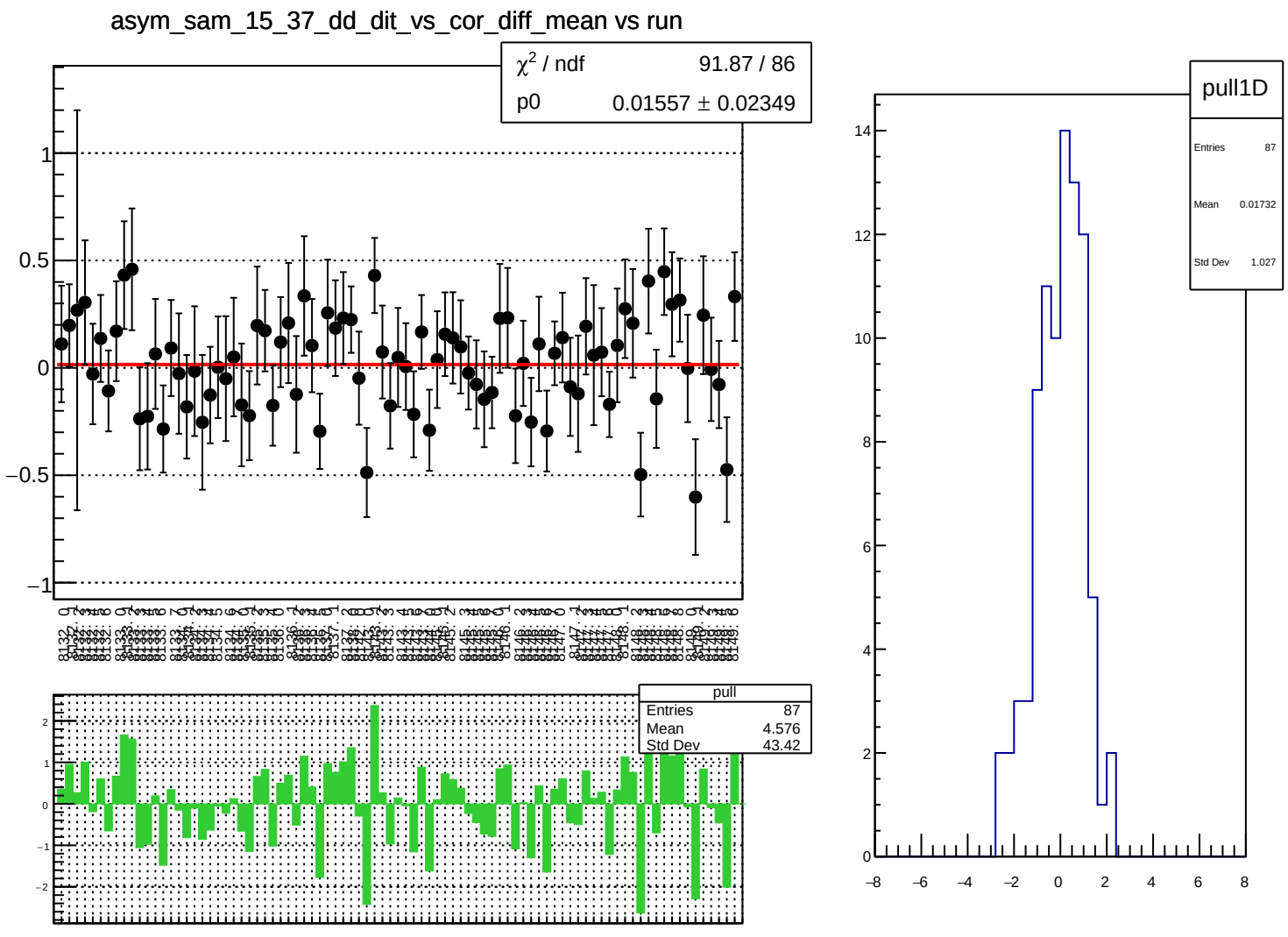

pull1D
Entries 87
Mean 0.001124
Std Dev 1.014

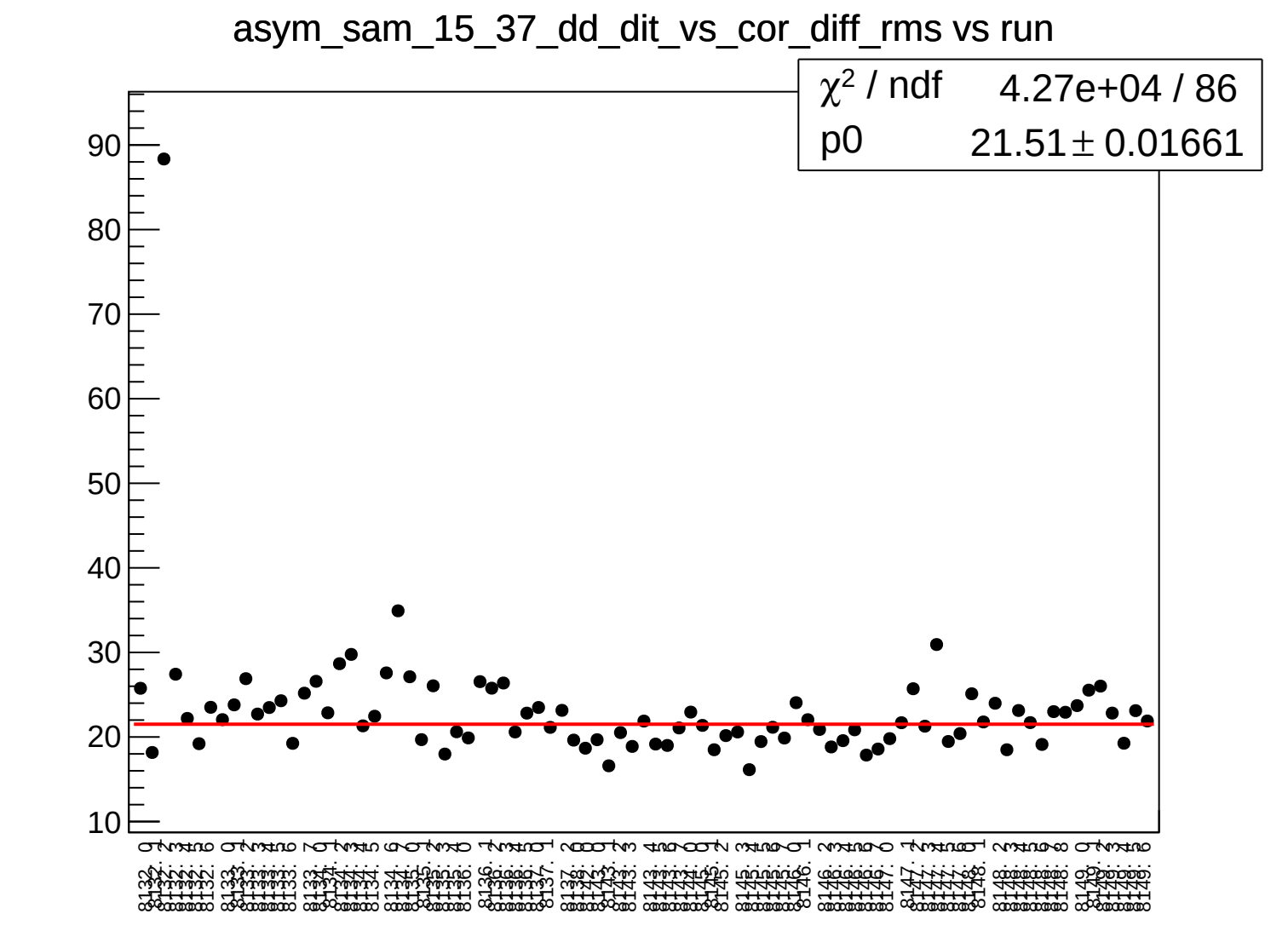

asym_sam_15_37_dd_rms vs run
χ² / ndf 1.037e+04 / 86
p0 892 ± 0.6824
1400
1300
1200
1100
1000
900
800

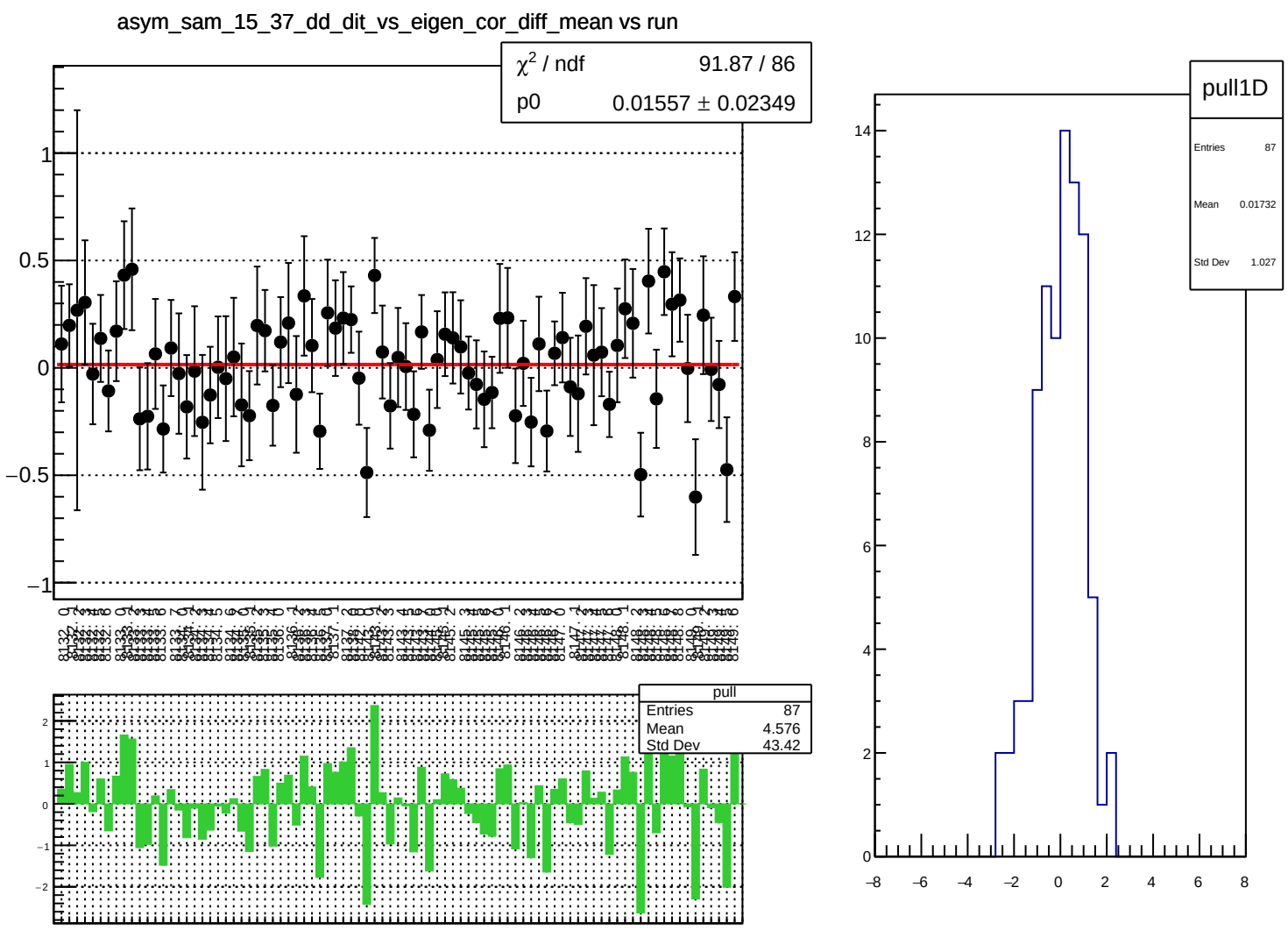

asym_sam_15_37_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 97.1 / 86
p0 3.798e−14 ± 5.948e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 87
Mean 30.97
Std Dev 0
3
2
1
0
−1
−2

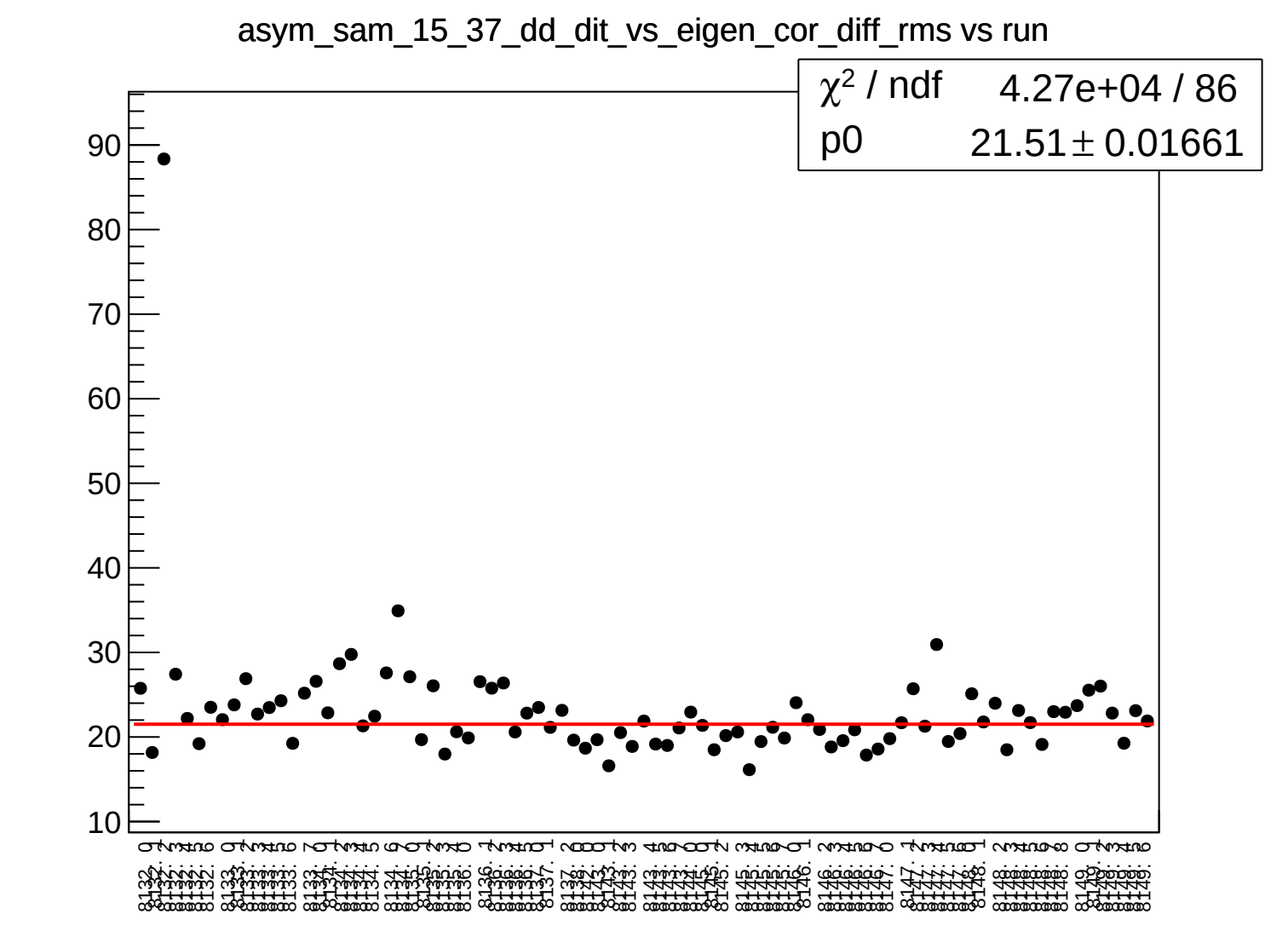

pull1D
Entries 87
Mean −0.1155
Std Dev 1.05
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

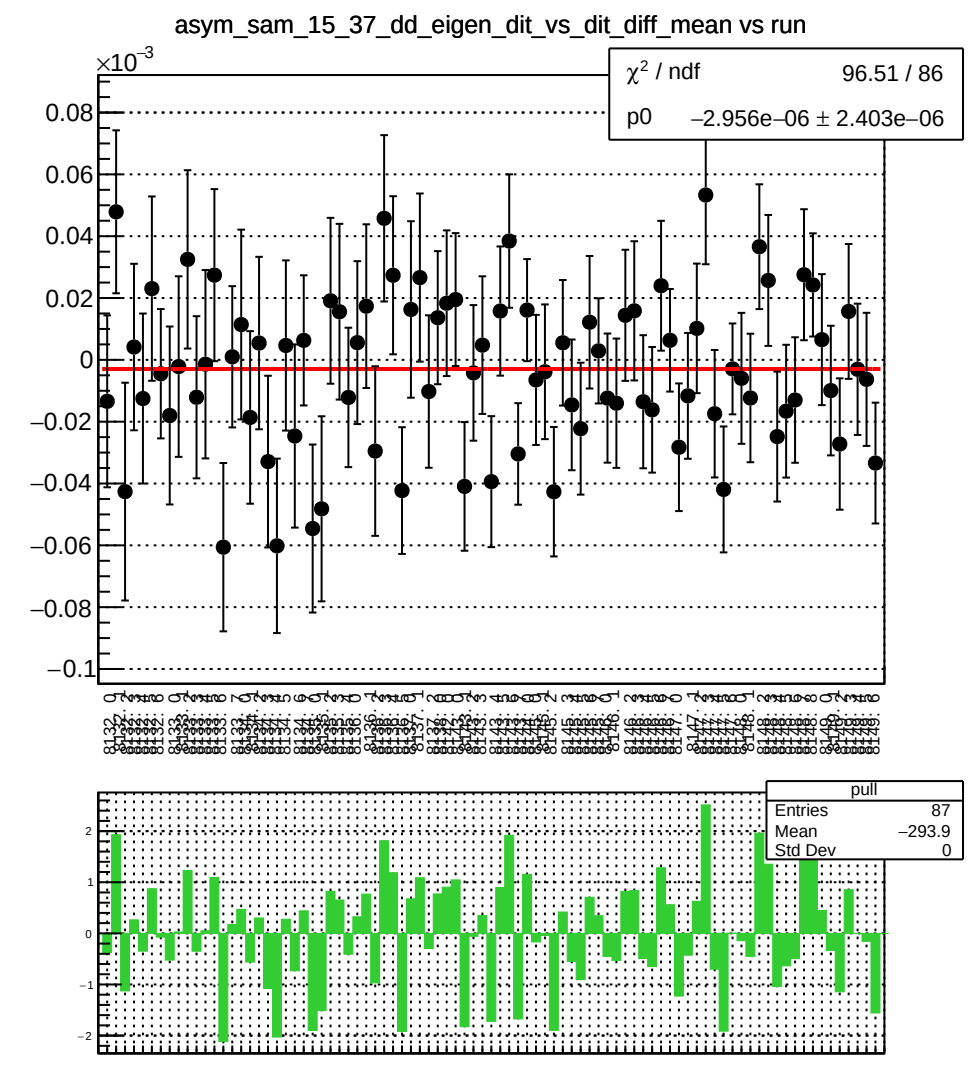

asym_sam_15_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.156e+06 / 86
p0 3.155e−11 ± 4.206e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

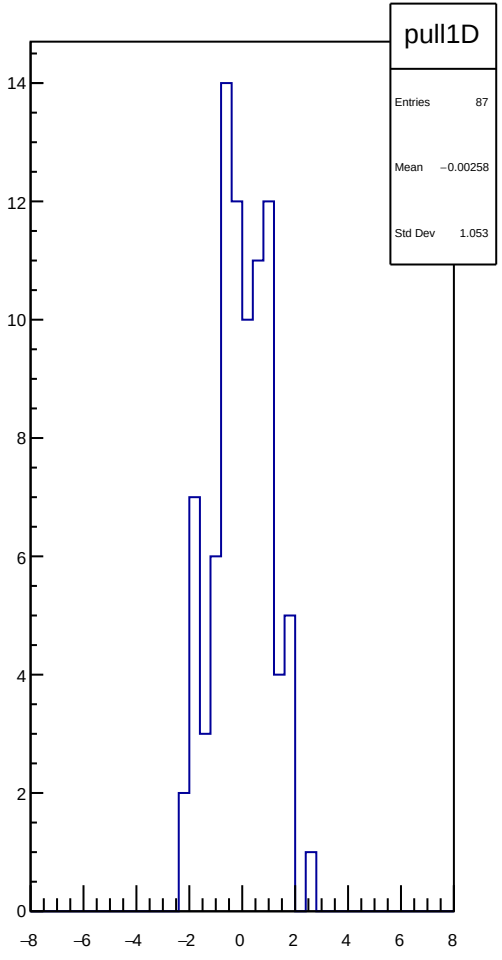

asym_sam_15_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 91.87 / 86
p0 0.01557 ± 0.02349
pull
Entries 87
Mean 4.576
Std Dev 43.42
pull1D
Entries 87
Mean 0.01732
Std Dev 1.027

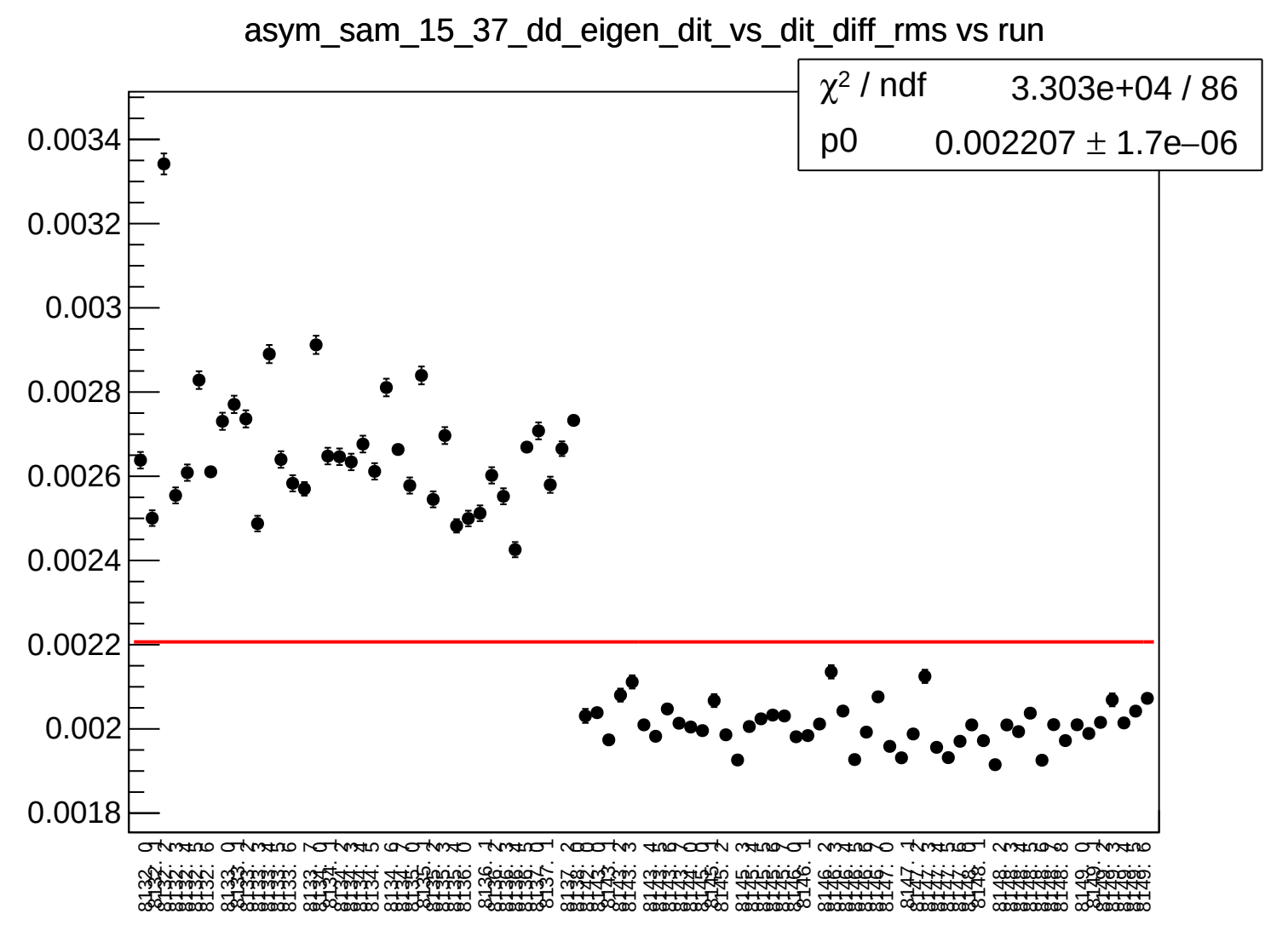

asym_sam_15_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.27e+04 / 86
p0 21.51 ± 0.01661
90
80
70
60
50
40
30
20
10

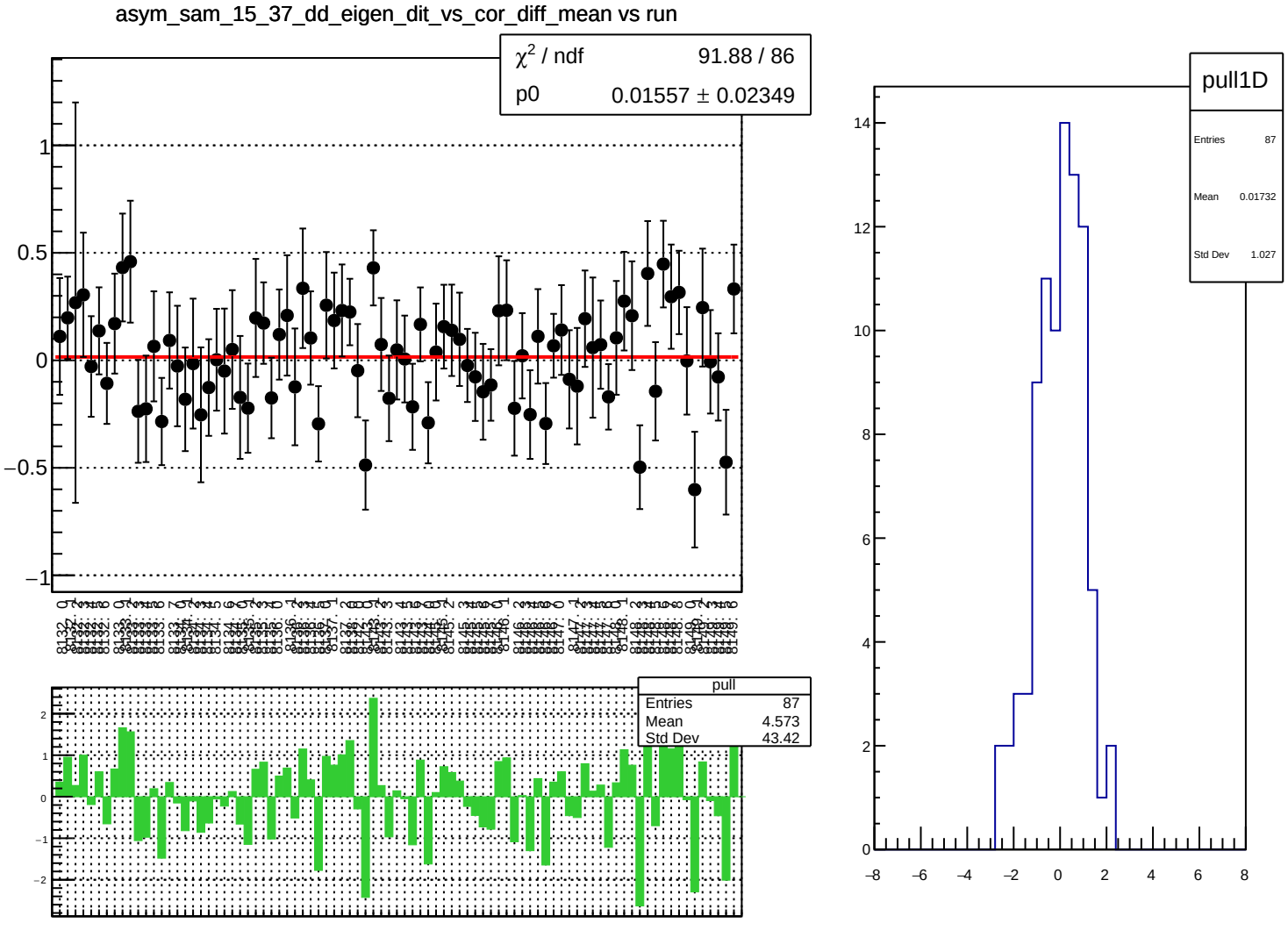

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.87 / 86
p0 0.01557 ± 0.02349
pull
Entries 87
Mean 4.576
Std Dev 43.42
pull1D
Entries 87
Mean 0.01732
Std Dev 1.027

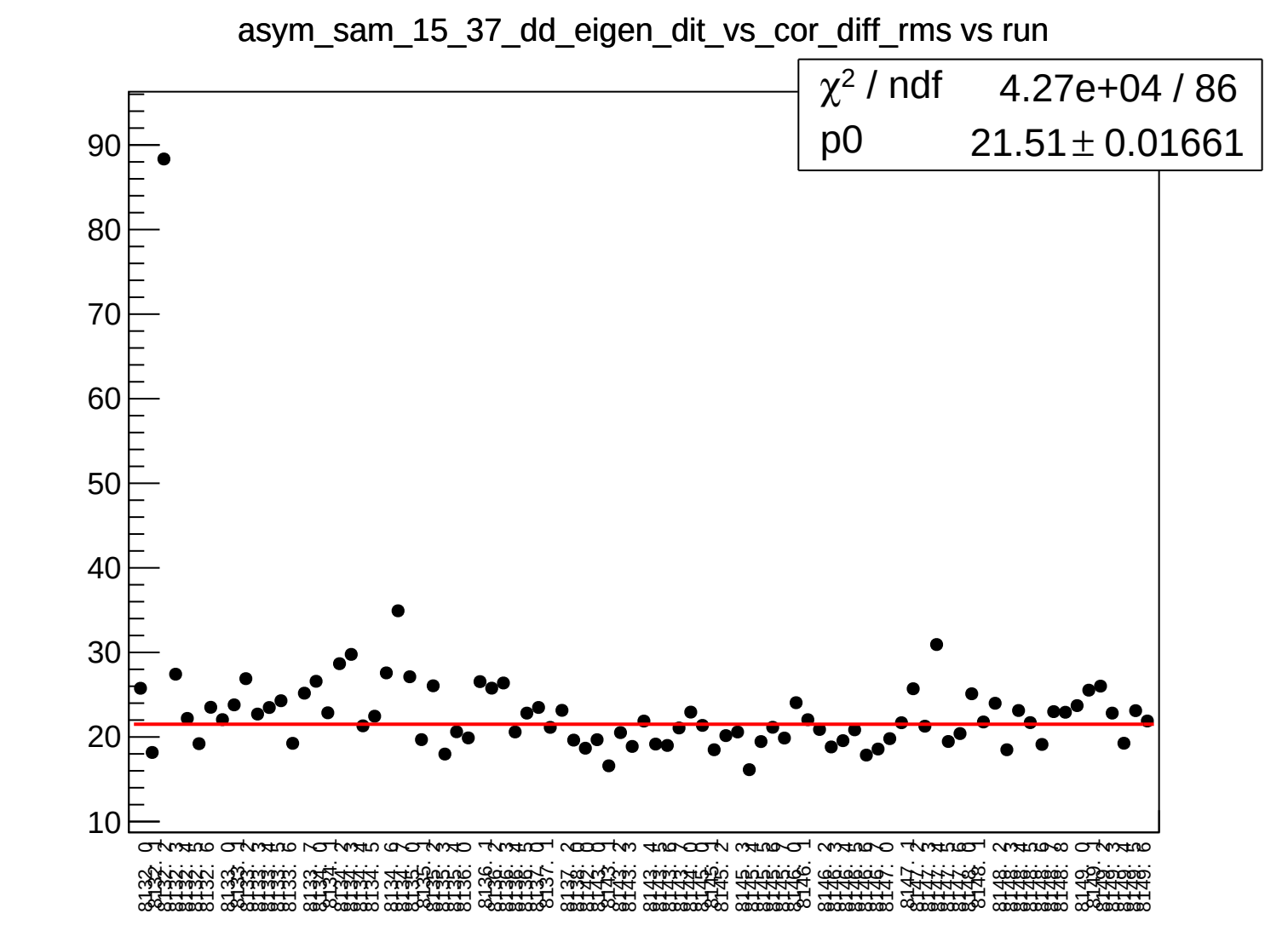

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.27e+04 / 86
p0 21.51 ± 0.01661
90
80
70
60
50
40
30
20
10

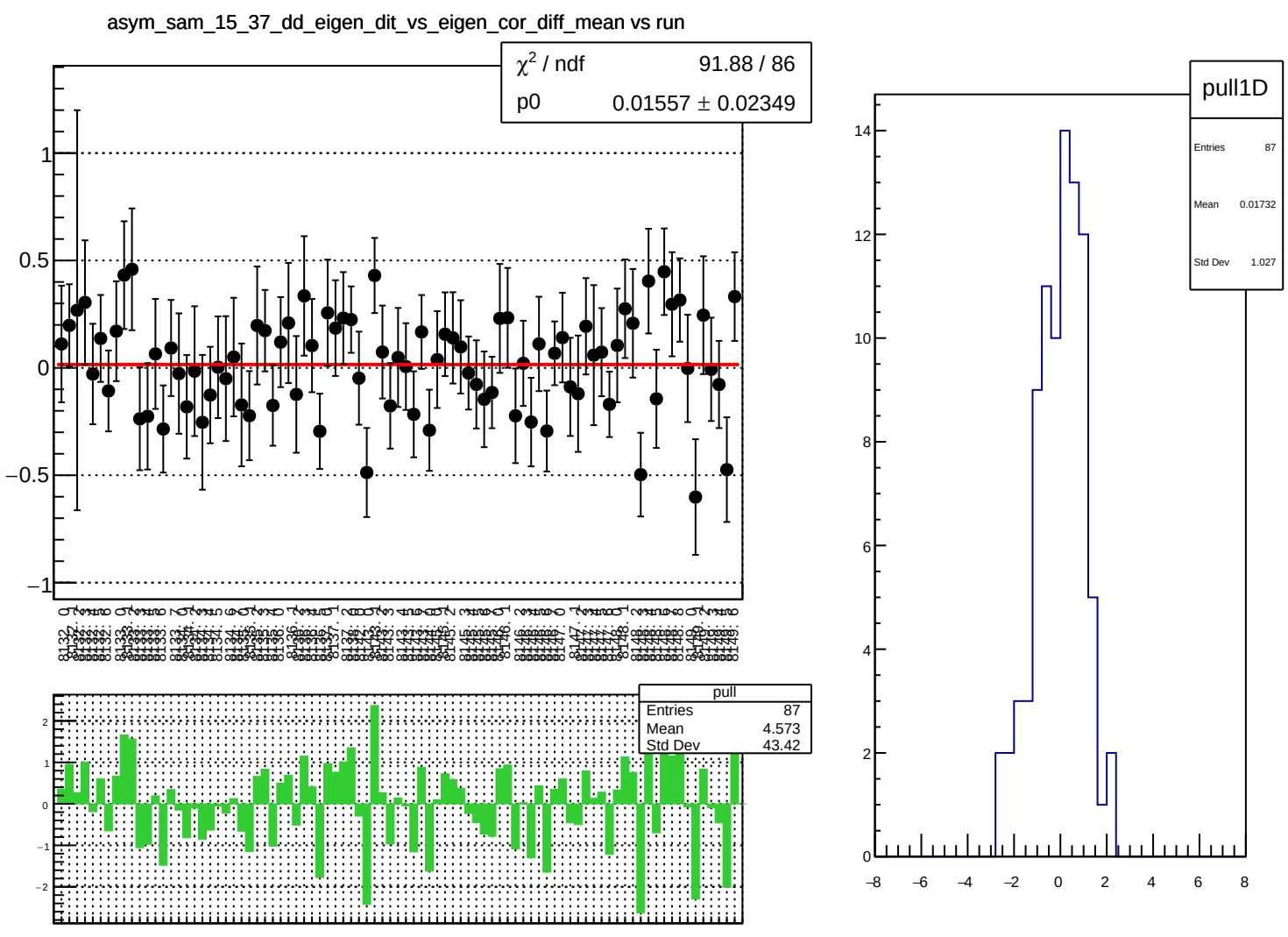

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.51 / 86
p0 −2.956e−06 ± 2.403e−06
pull
Entries 87
Mean −293.9
Std Dev 0

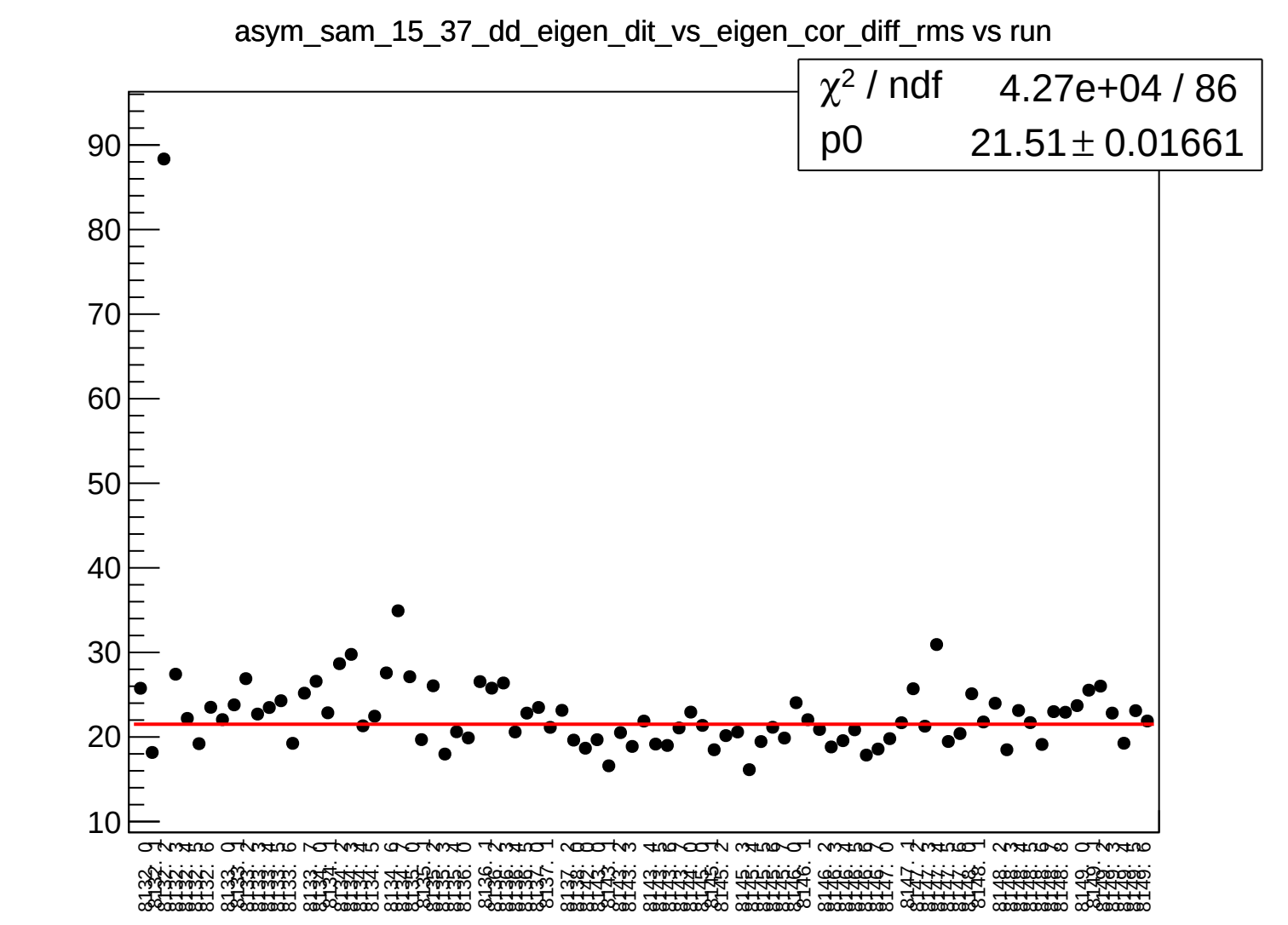

pull1D
Entries 87
Mean −0.00258
Std Dev 1.053

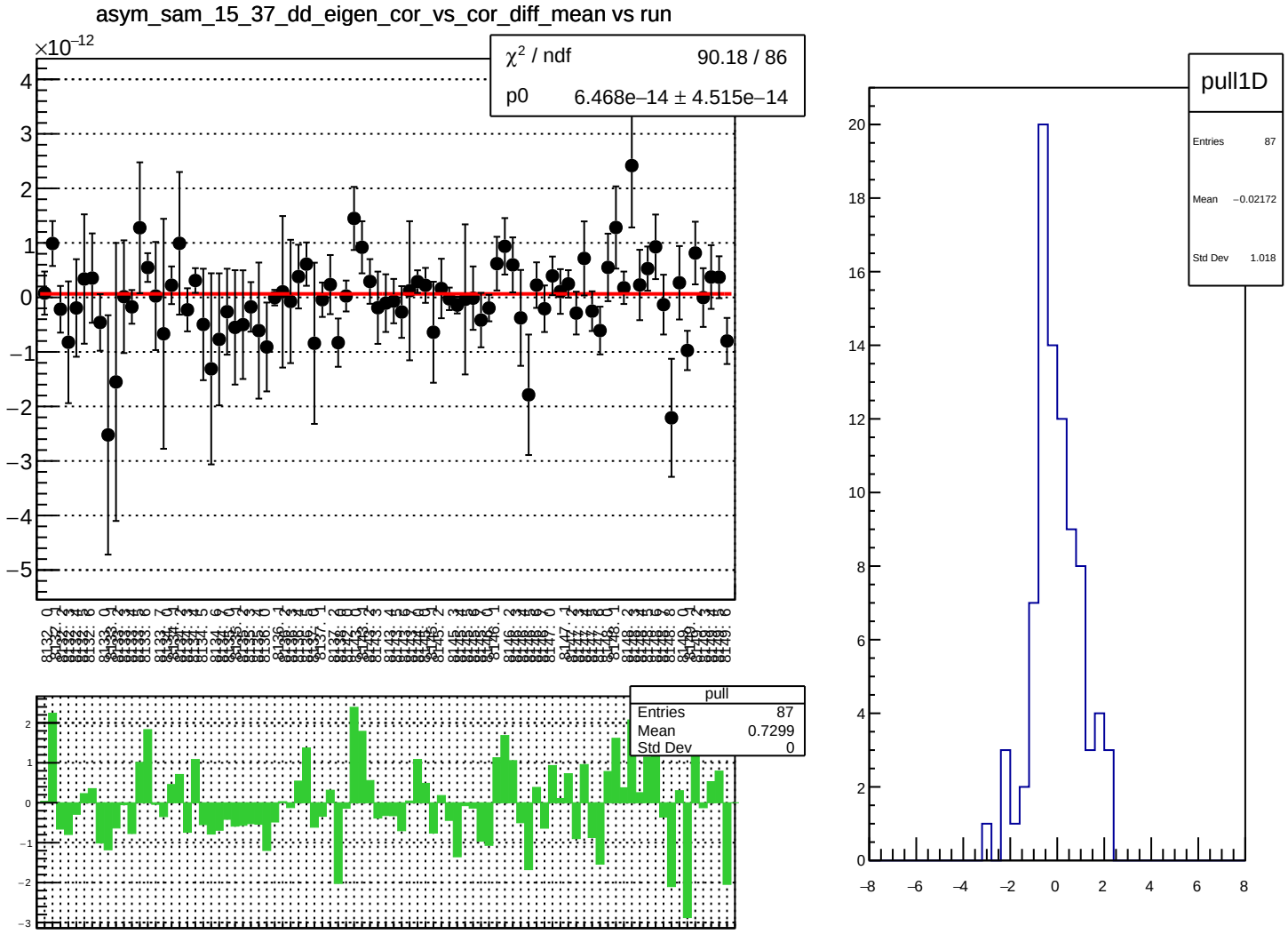

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.303e+04 / 86
p0 0.002207 ± 1.7e−06
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018

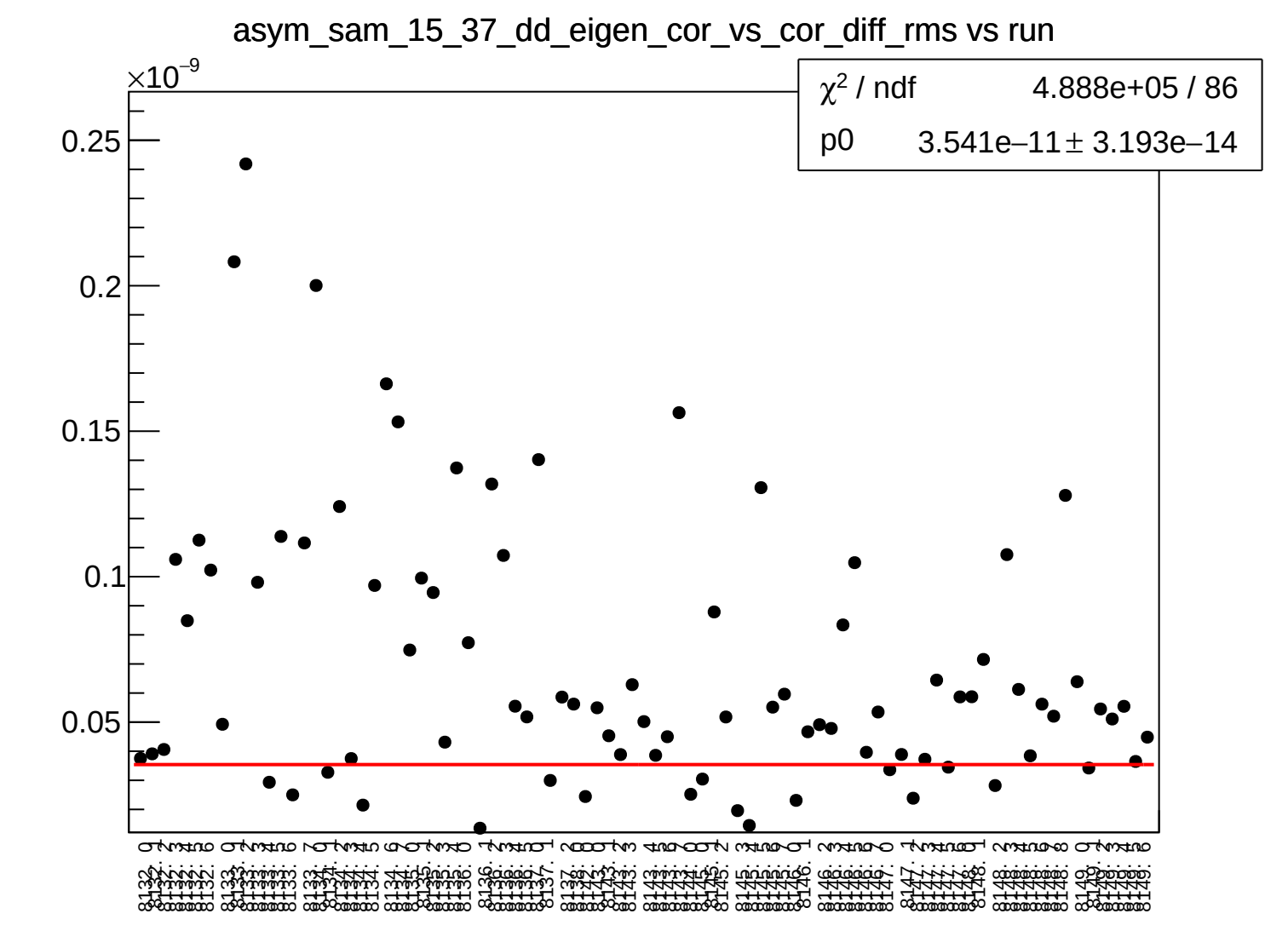

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.88 / 86
p0 0.01557 ± 0.02349
pull
Entries 87
Mean 4.573
Std Dev 43.42
pull1D
Entries 87
Mean 0.01732
Std Dev 1.027

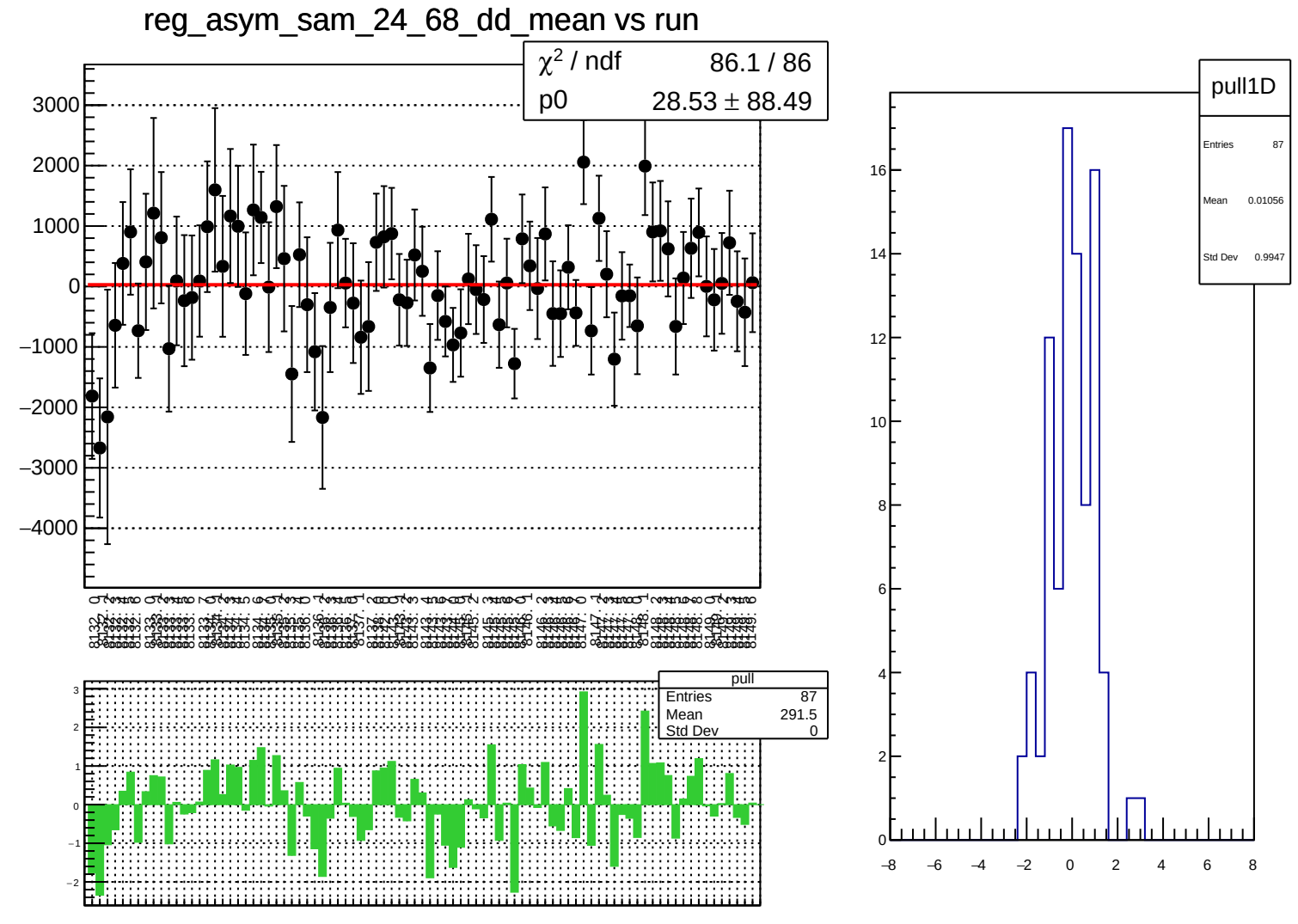

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.27e+04 / 86
p0 21.51 ± 0.01661
90
80
70
60
50
40
30
20
10

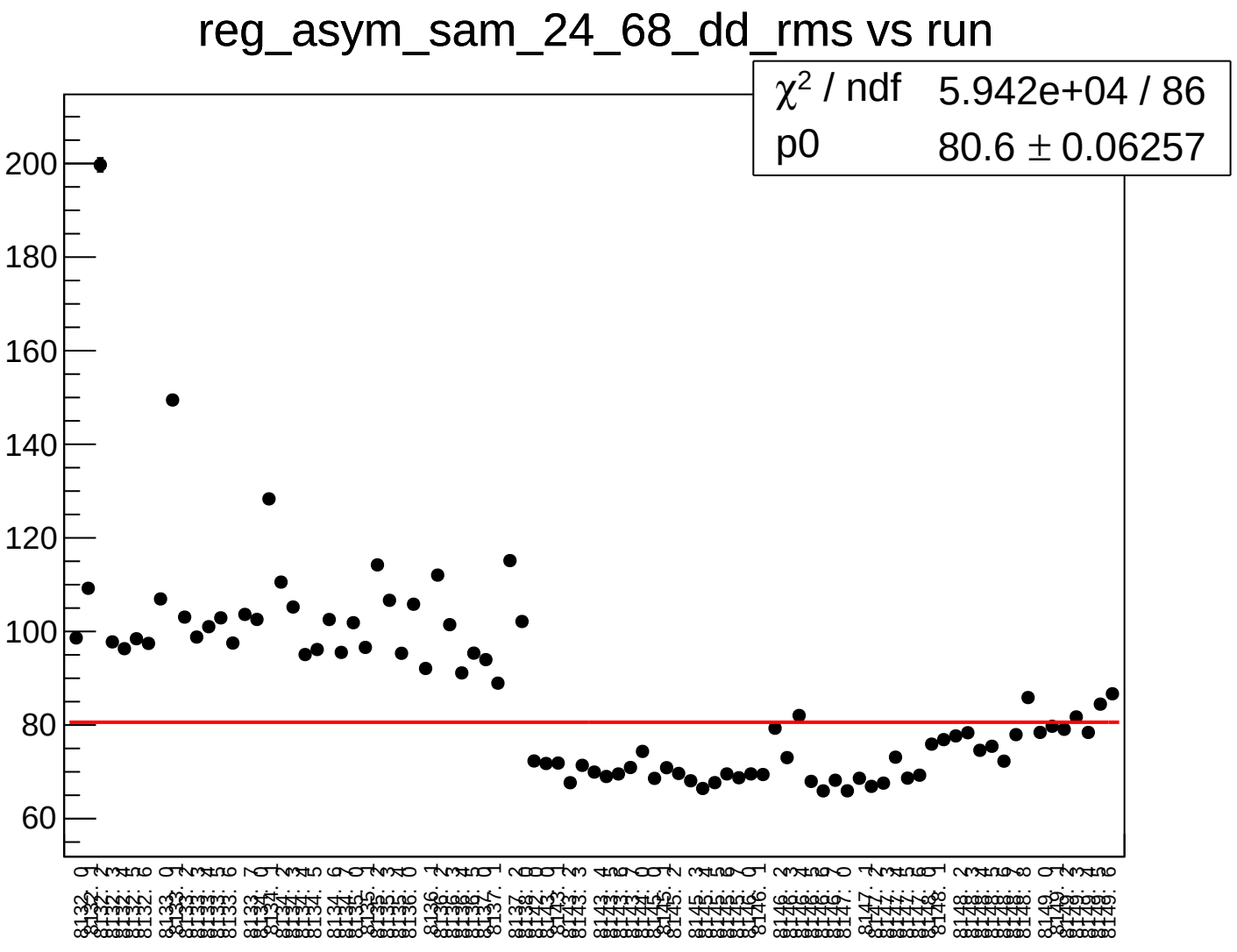

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.88 / 86
p0 0.01557 ± 0.02349
pull
Entries 87
Mean 4.573
Std Dev 43.42
pull1D
Entries 87
Mean 0.01732
Std Dev 1.027

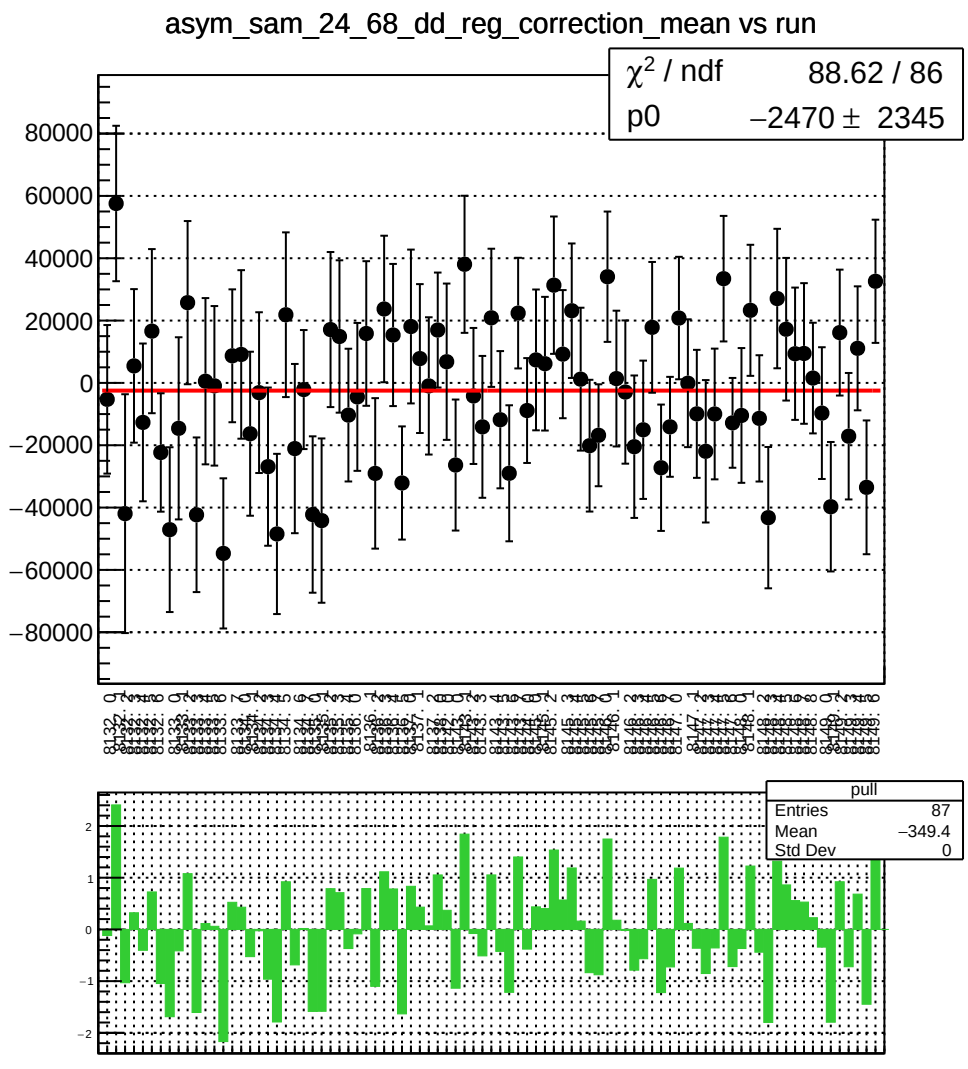

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.27e+04 / 86
p0 21.51 ± 0.01661
90
80
70
60
50
40
30
20
10

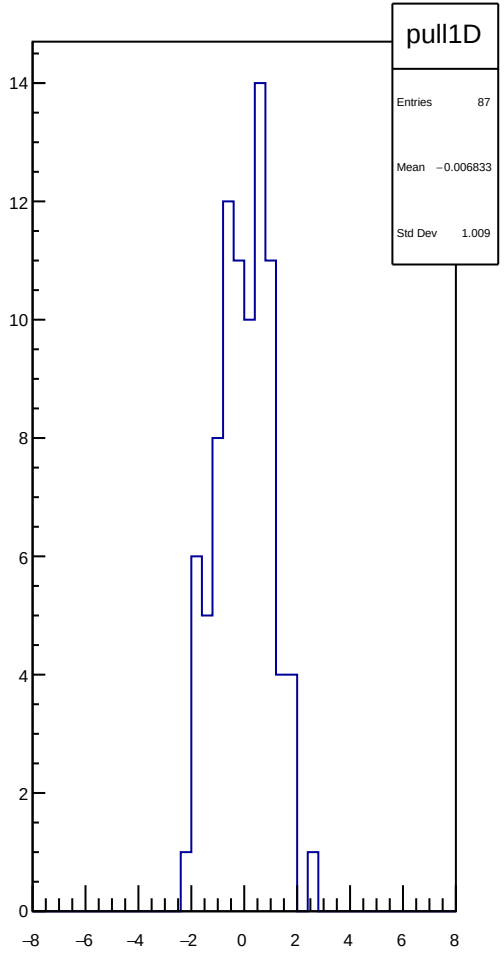

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.18 / 86
p0 6.468e−14 ± 4.515e−14
pull
Entries 87
Mean 0.7299
Std Dev 0
pull1D
Entries 87
Mean −0.02172
Std Dev 1.018

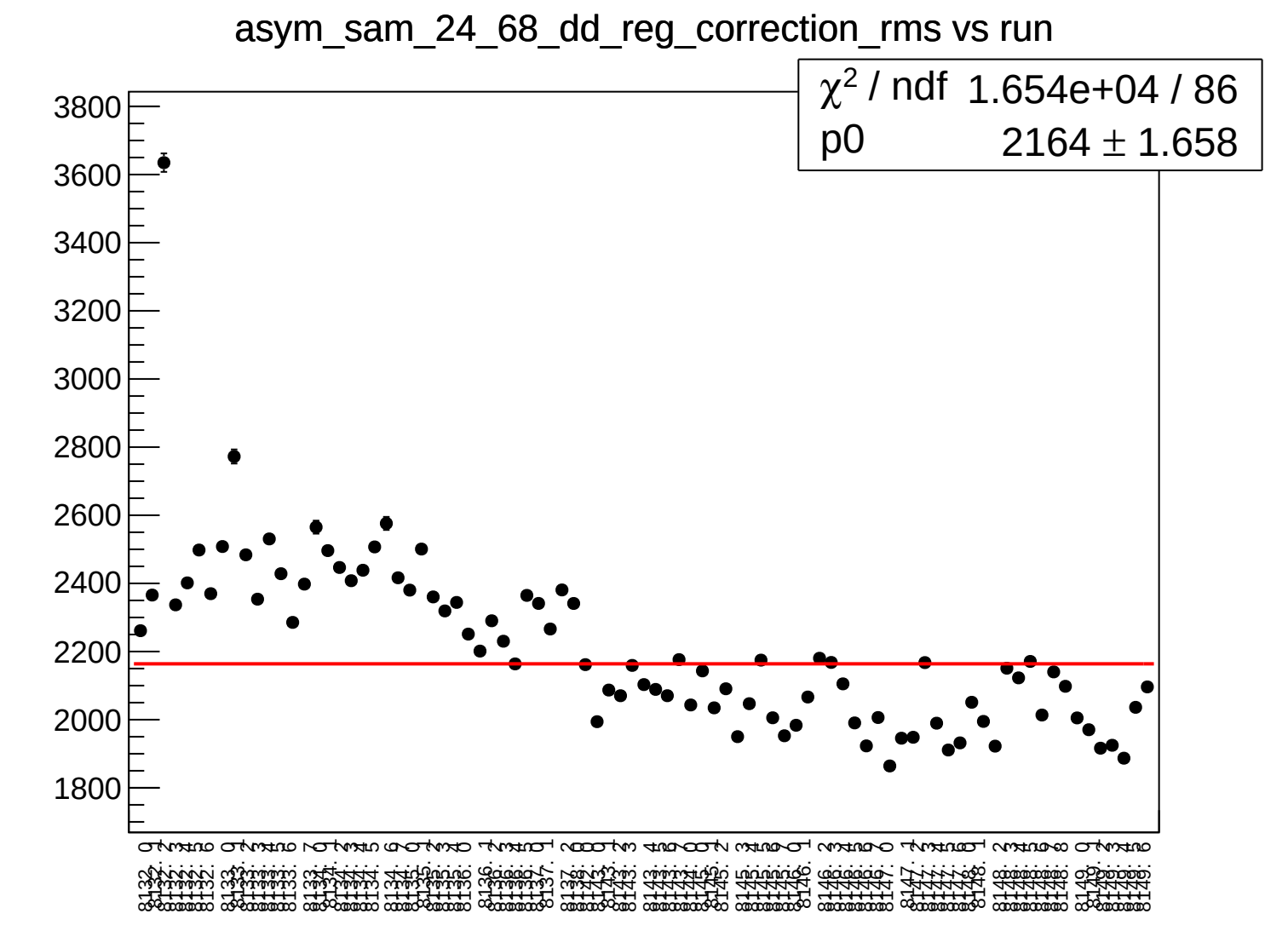

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.888e+05 / 86
p0 3.541e−11 ± 3.193e−14
0.25
0.2
0.15
0.1
0.05

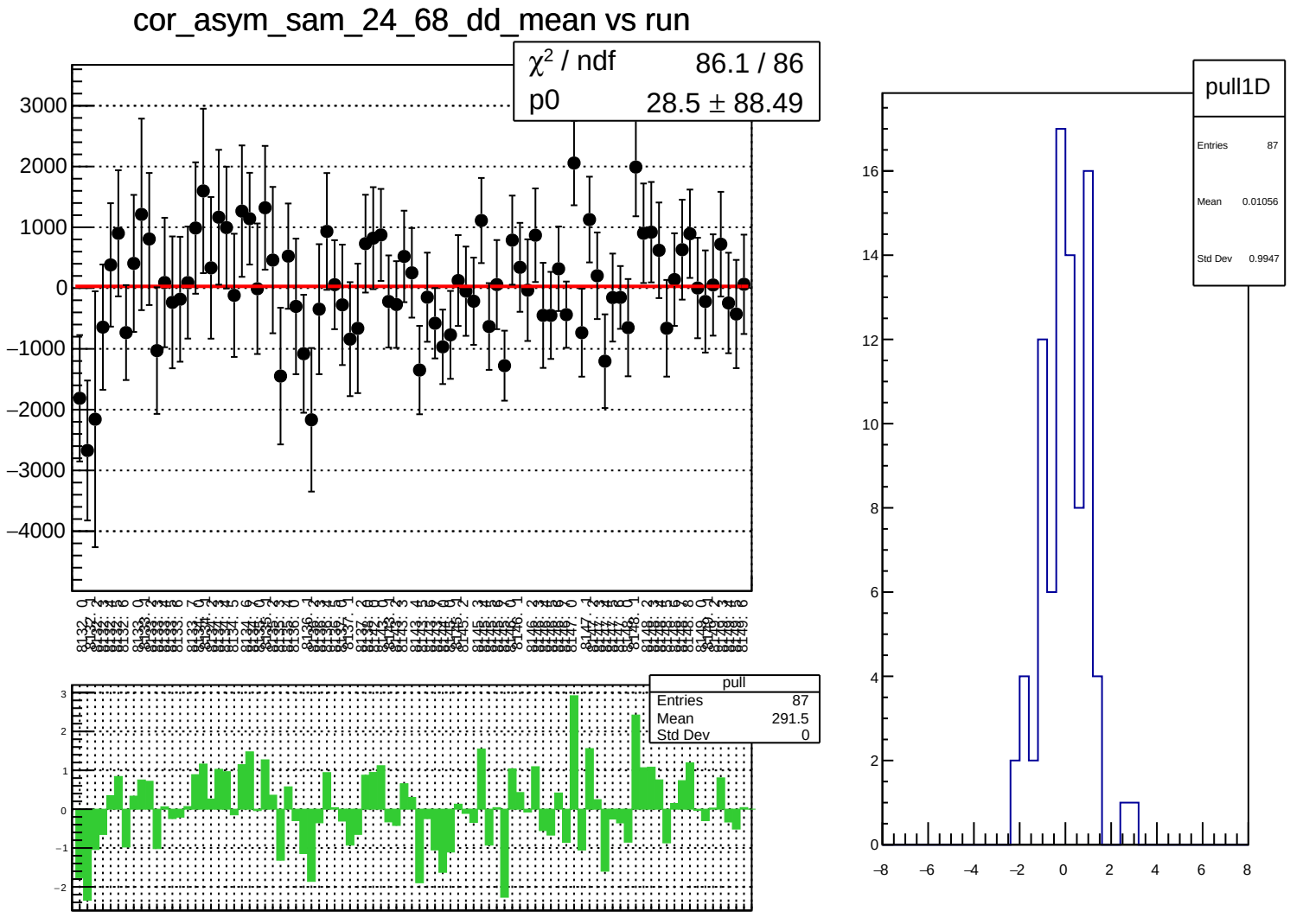

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 86.1 / 86
p0 28.53 ± 88.49
pull
Entries 87
Mean 291.5
Std Dev 0
pull1D
Entries 87
Mean 0.01056
Std Dev 0.9947

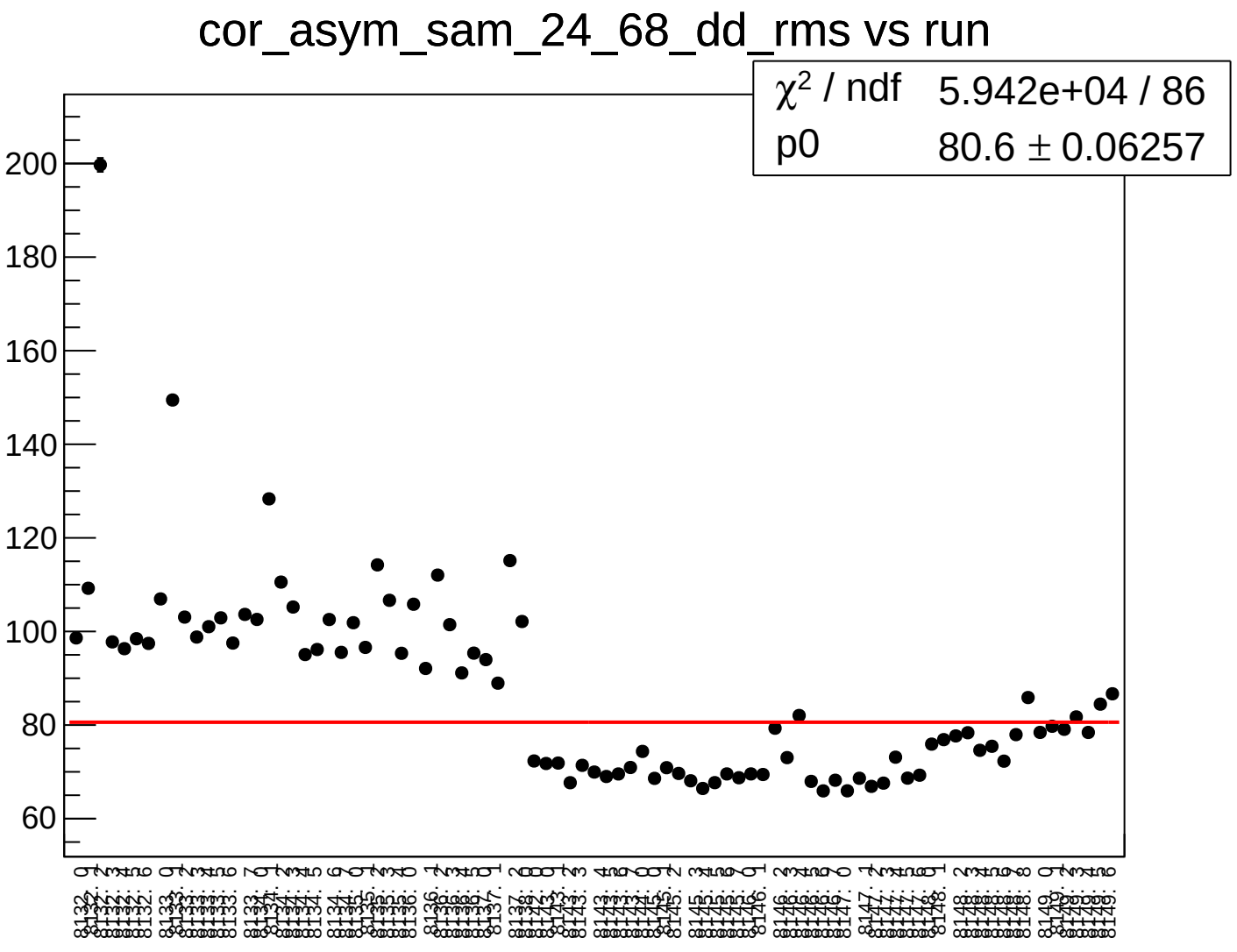

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 5.942e+04 / 86
p0 80.6 ± 0.06257
200
180
160
140
120
100
80
60

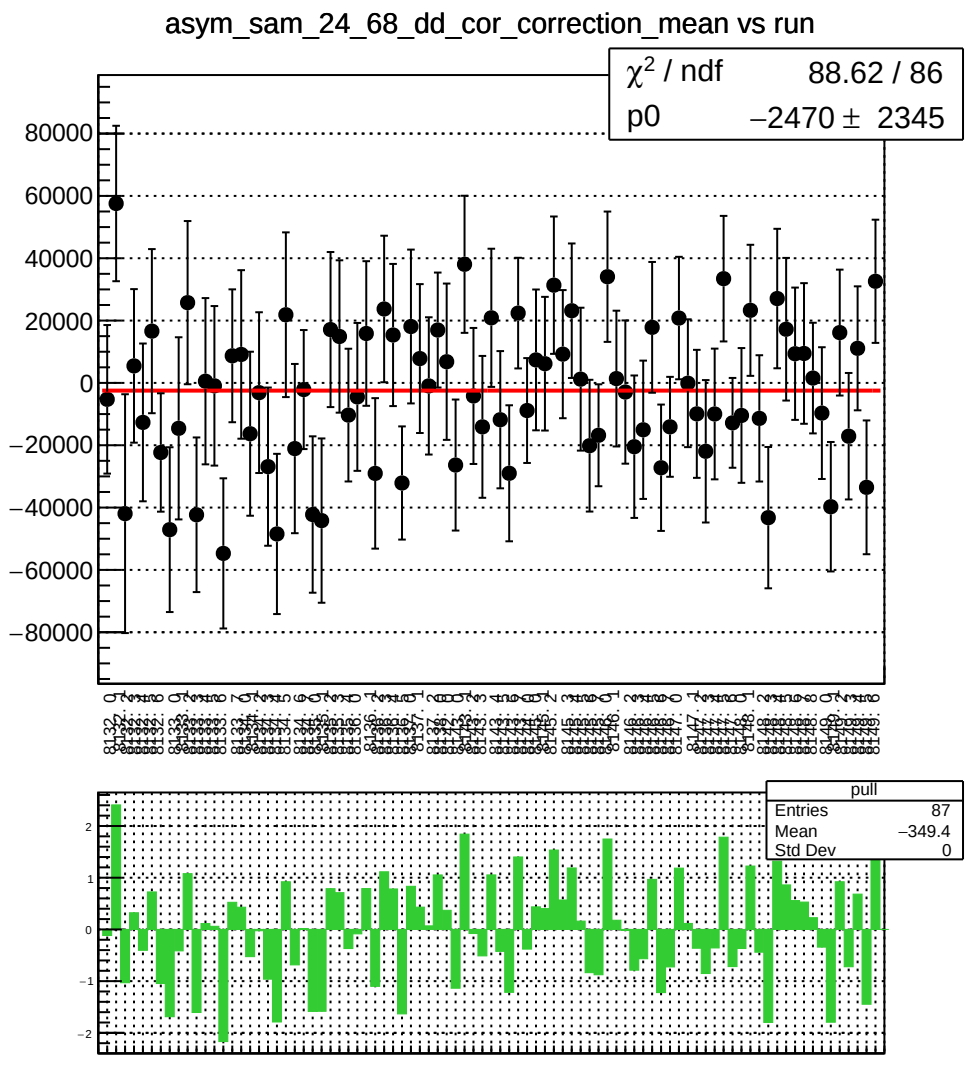

asym_sam_24_68_dd_reg_correction_mean vs run
χ² / ndf 88.62 / 86
p0 −2470 ± 2345
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean −349.4
Std Dev 0
2
1
0
−1
−2

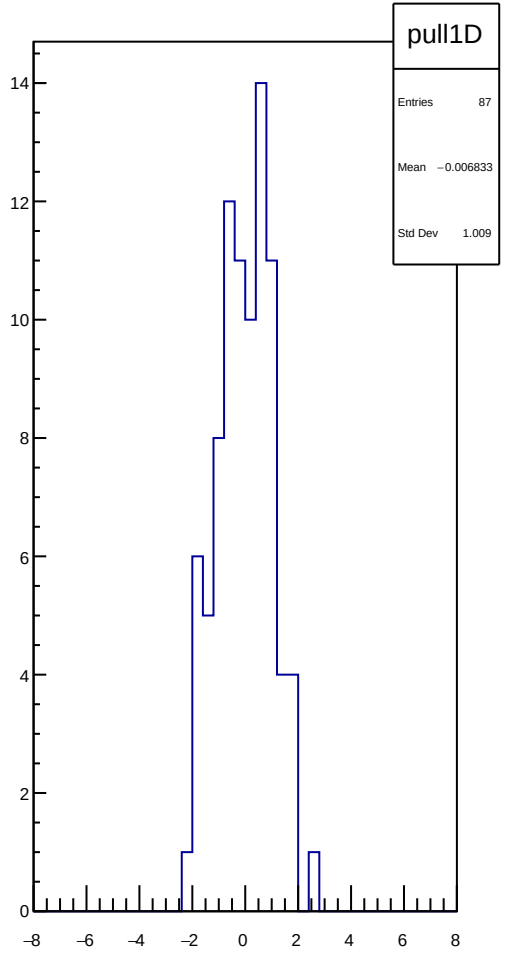

pull1D
Entries 87
Mean −0.006833
Std Dev 1.009
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

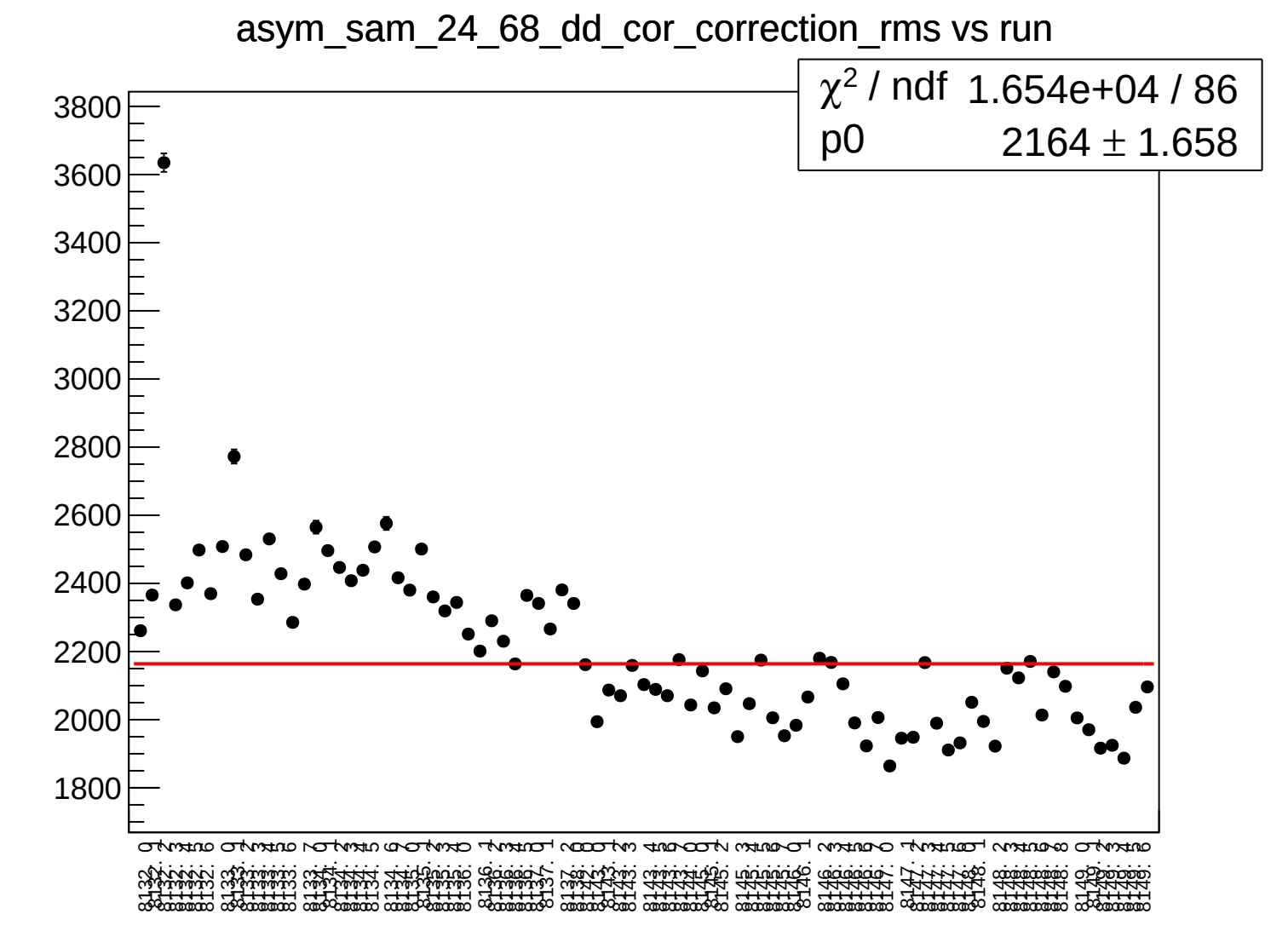

asym_sam_24_68_dd_reg_correction_rms vs run
χ² / ndf 1.654e+04 / 86
p0 2164 ± 1.658
3800
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800

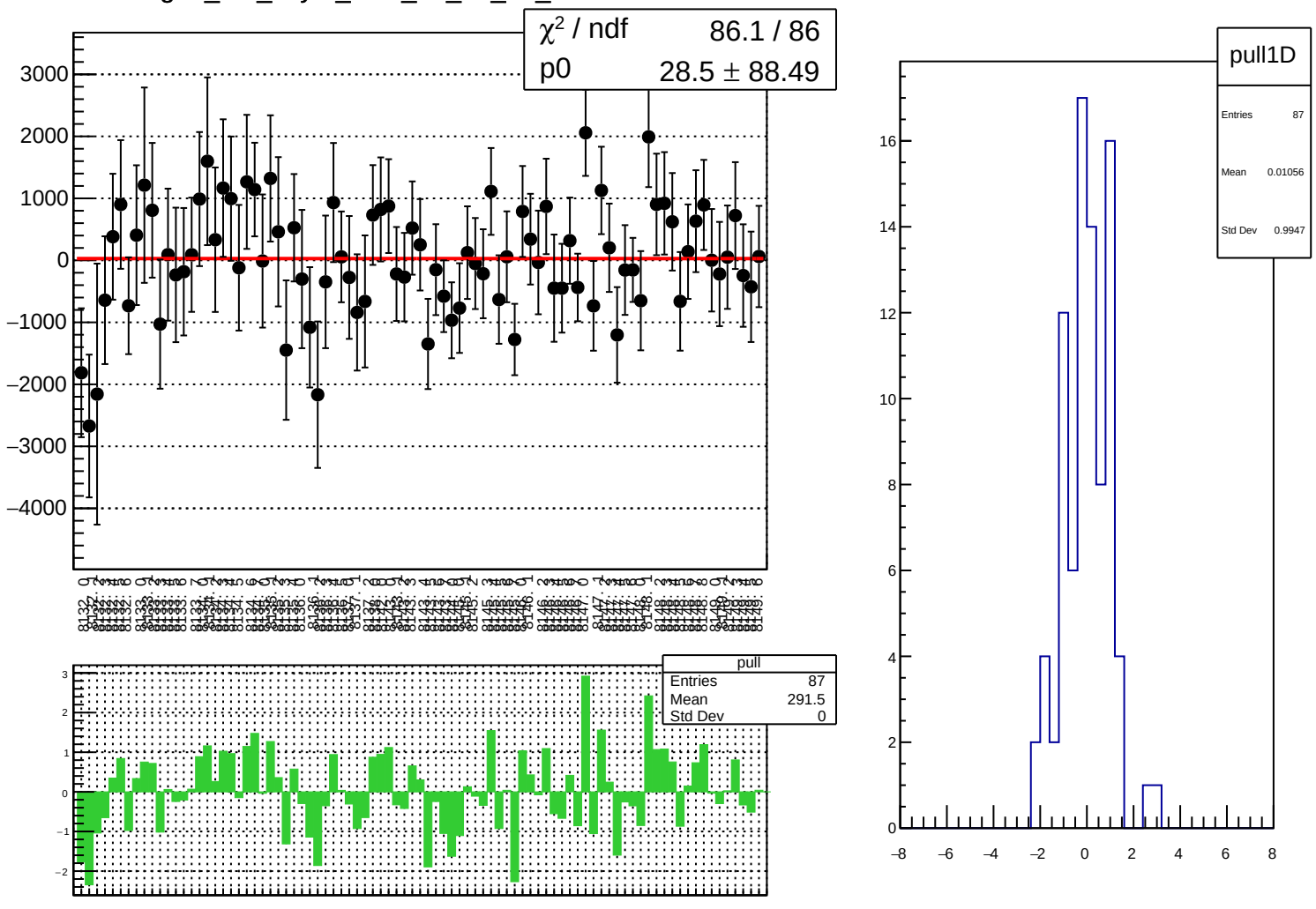

cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 86.1 / 86
p0 28.5 ± 88.49
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 87
Mean 291.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.01056
Std Dev 0.9947
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

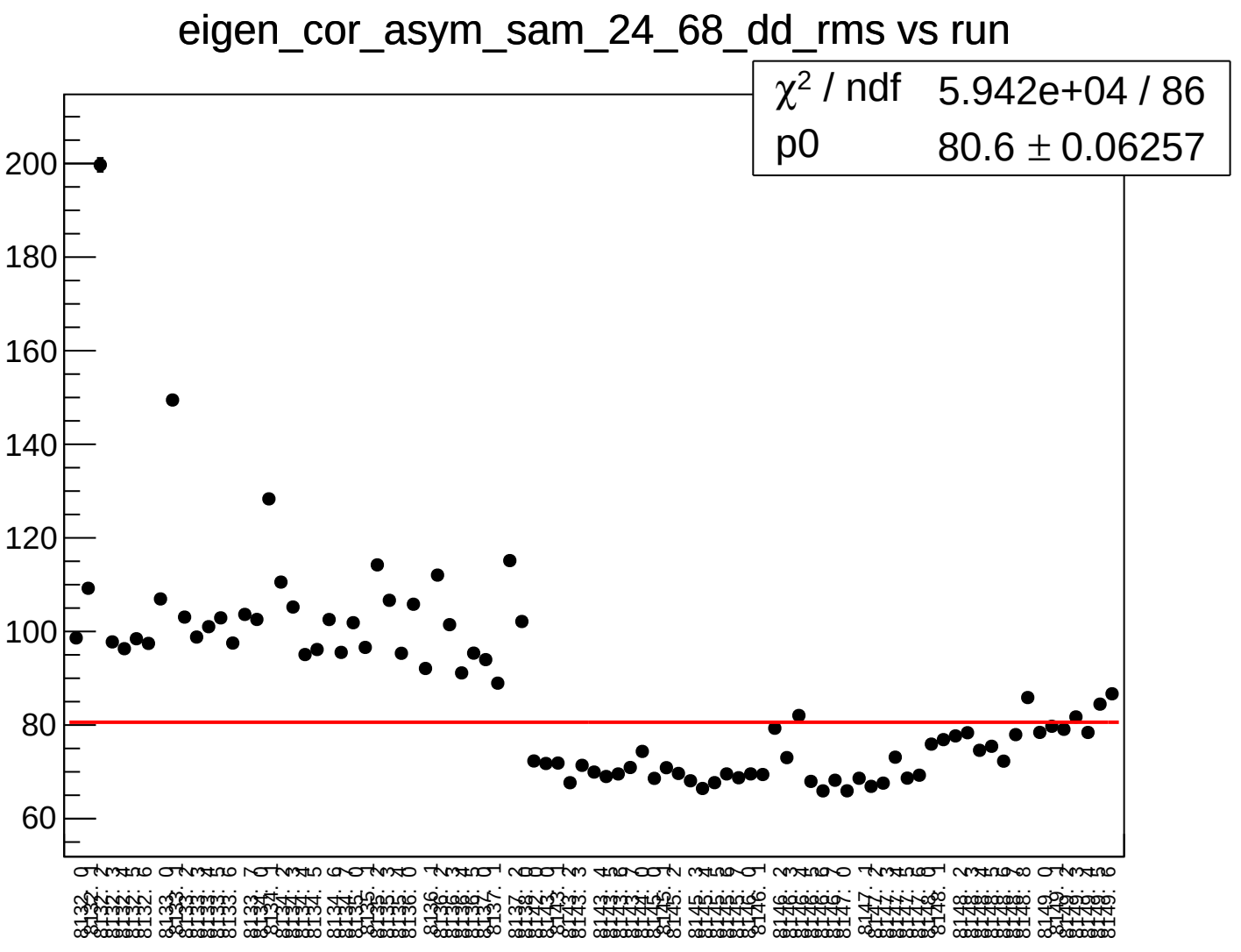

cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 5.942e+04 / 86
p0 80.6 ± 0.06257
200
180
160
140
120
100
80
60

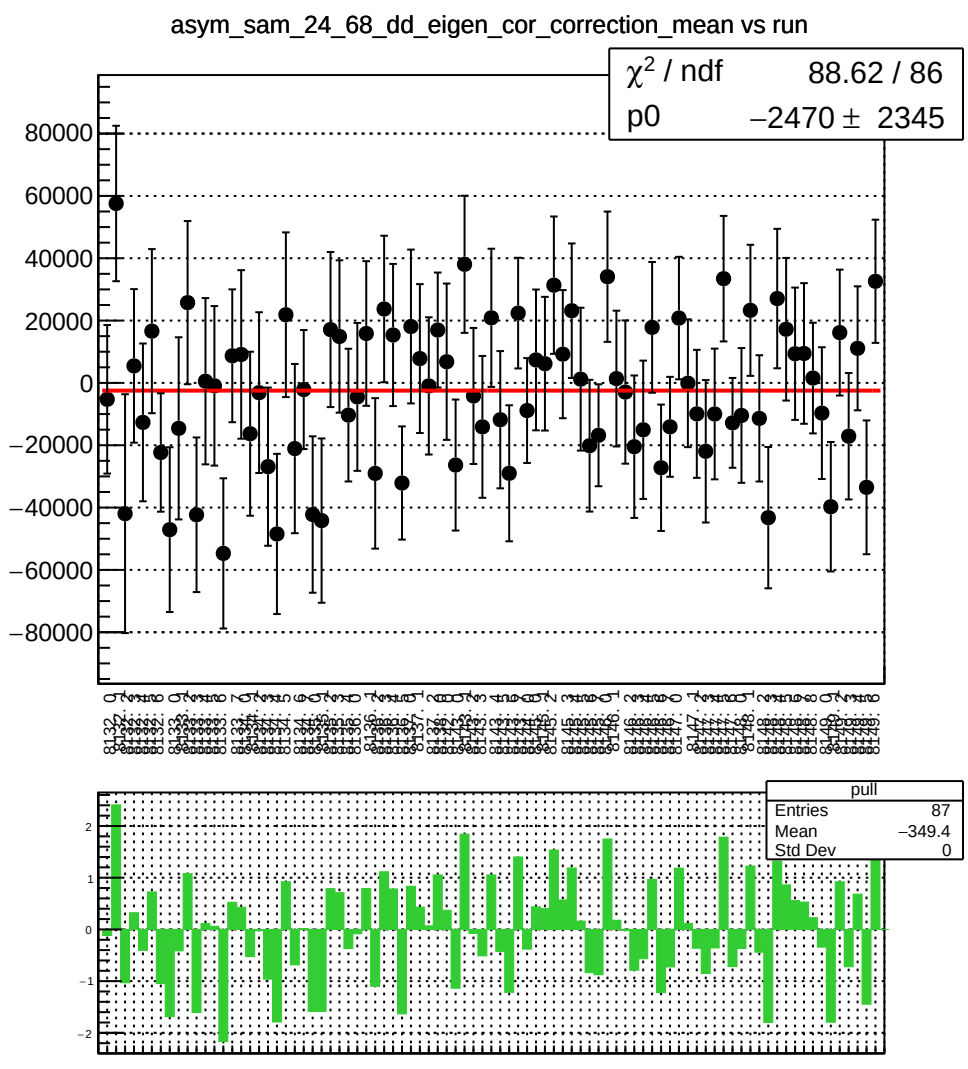

asym_sam_24_68_dd_cor_correction_mean vs run
χ² / ndf 88.62 / 86
p0 −2470 ± 2345
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean −349.4
Std Dev 0
2
1
0
−1
−2

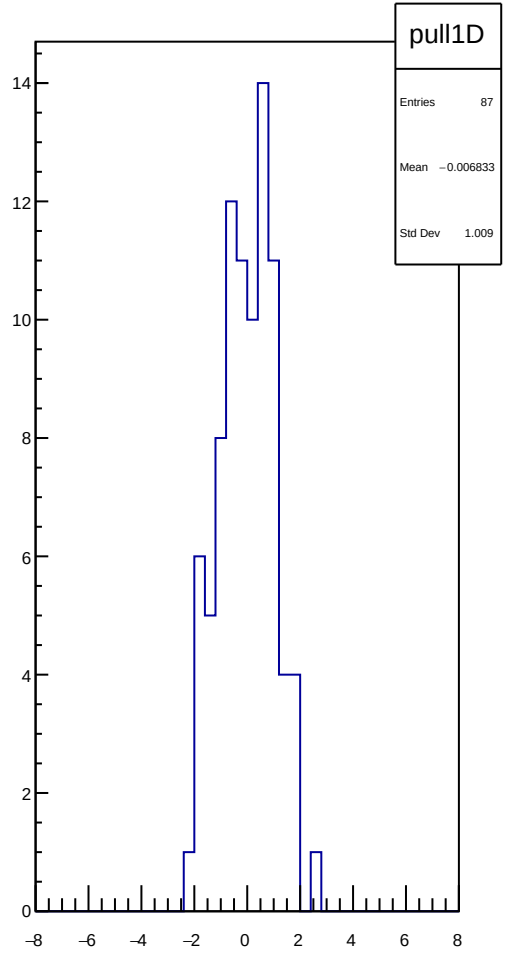

pull1D
Entries 87
Mean −0.006833
Std Dev 1.009
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

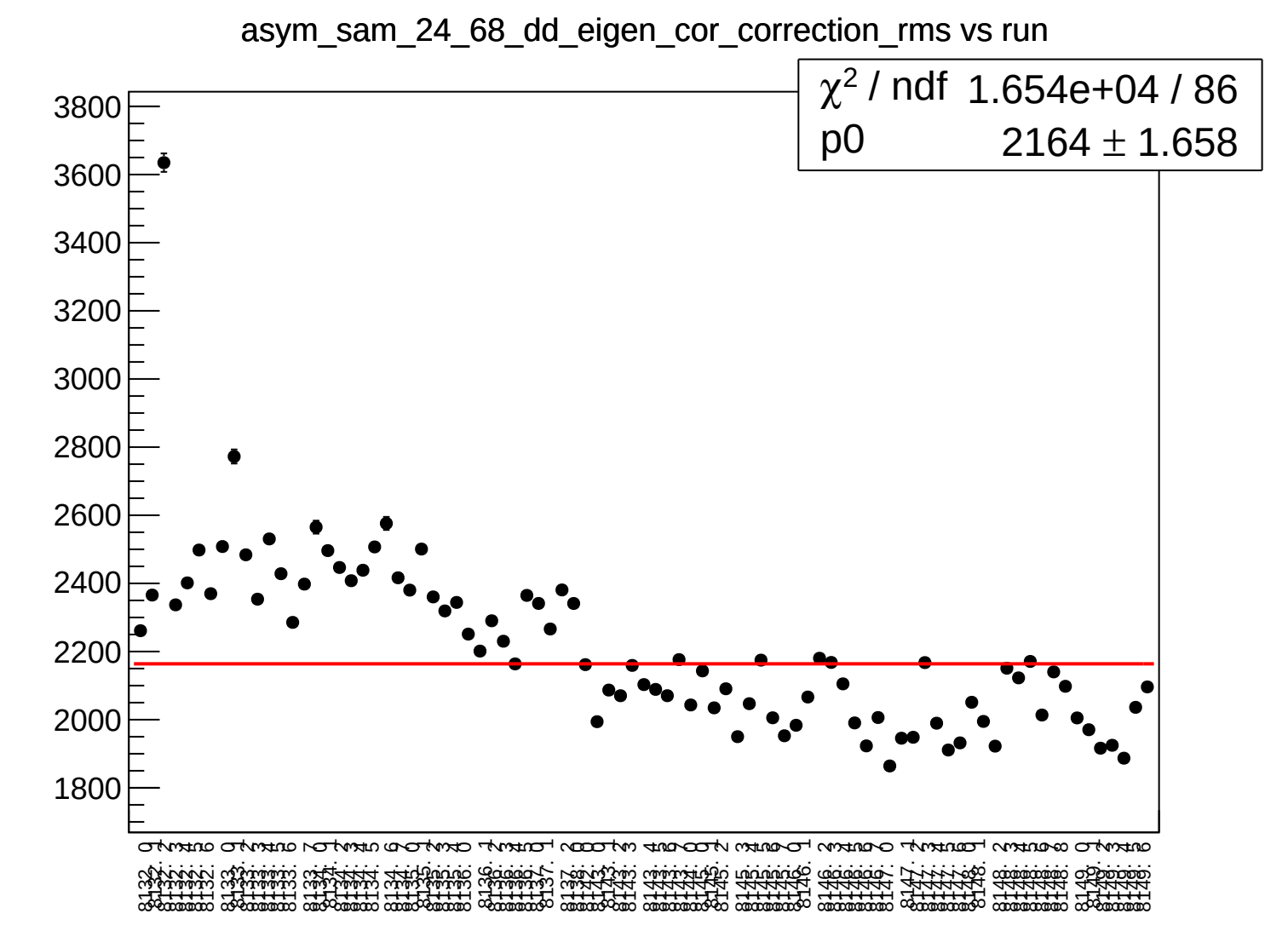

asym_sam_24_68_dd_cor_correction_rms vs run
χ^2 / ndf 1.654e+04 / 86
p0 2164 ± 1.658
3800
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800

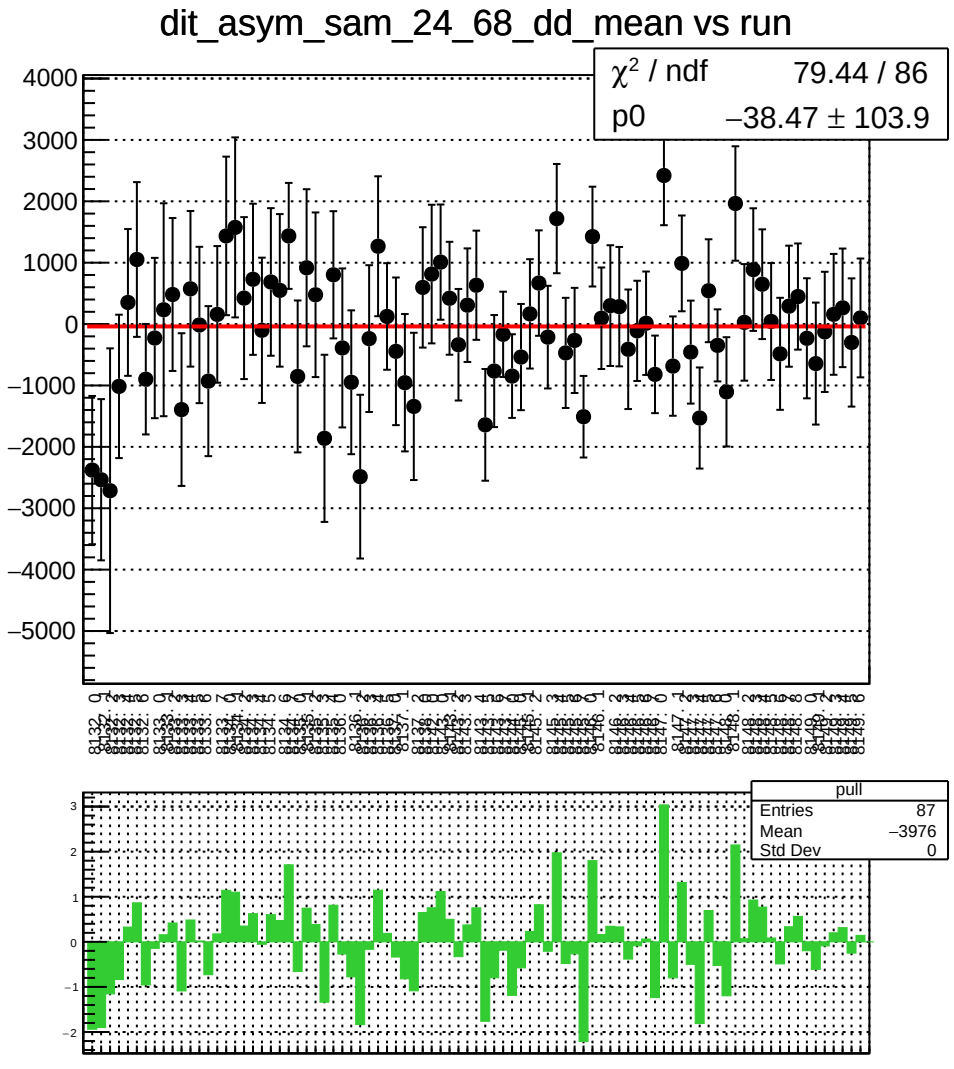

eigen_cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 86.1 / 86
p0 28.5 ± 88.49
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 87
Mean 291.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.01056
Std Dev 0.9947
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

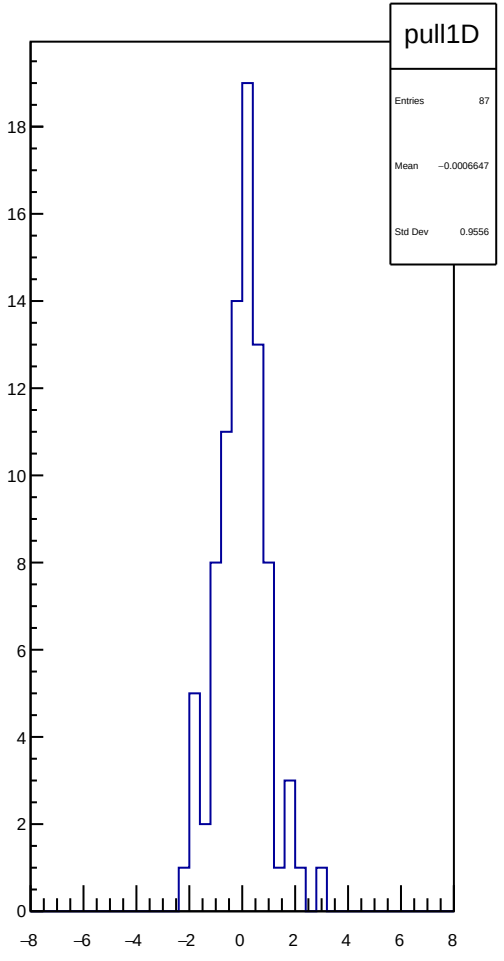

eigen_cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 5.942e+04 / 86
p0 80.6 ± 0.06257
200
180
160
140
120
100
80
60

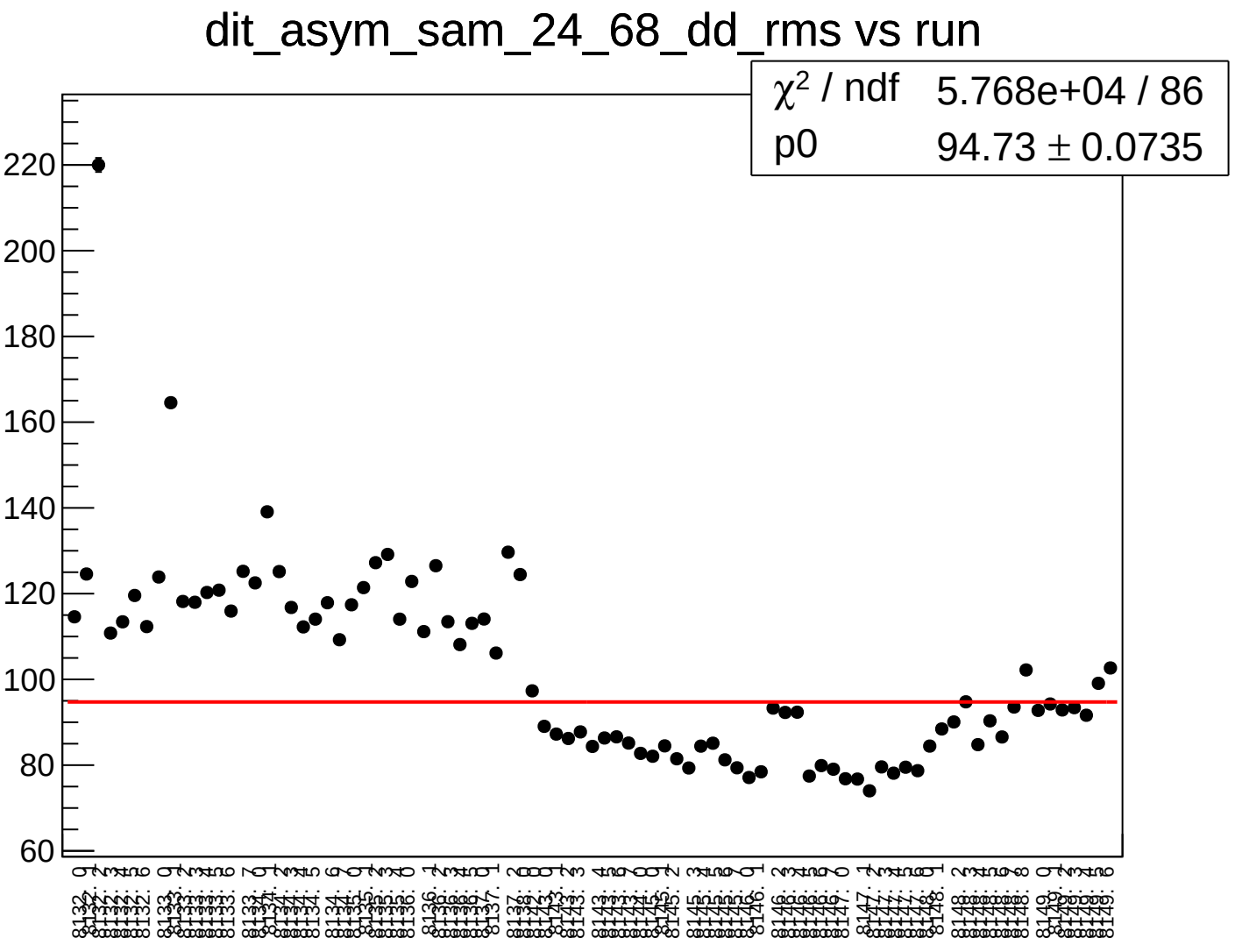

asym_sam_24_68_dd_eigen_cor_correction_mean vs run
χ² / ndf 88.62 / 86
p0 −2470 ± 2345
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean −349.4
Std Dev 0
2
1
0
−1
−2

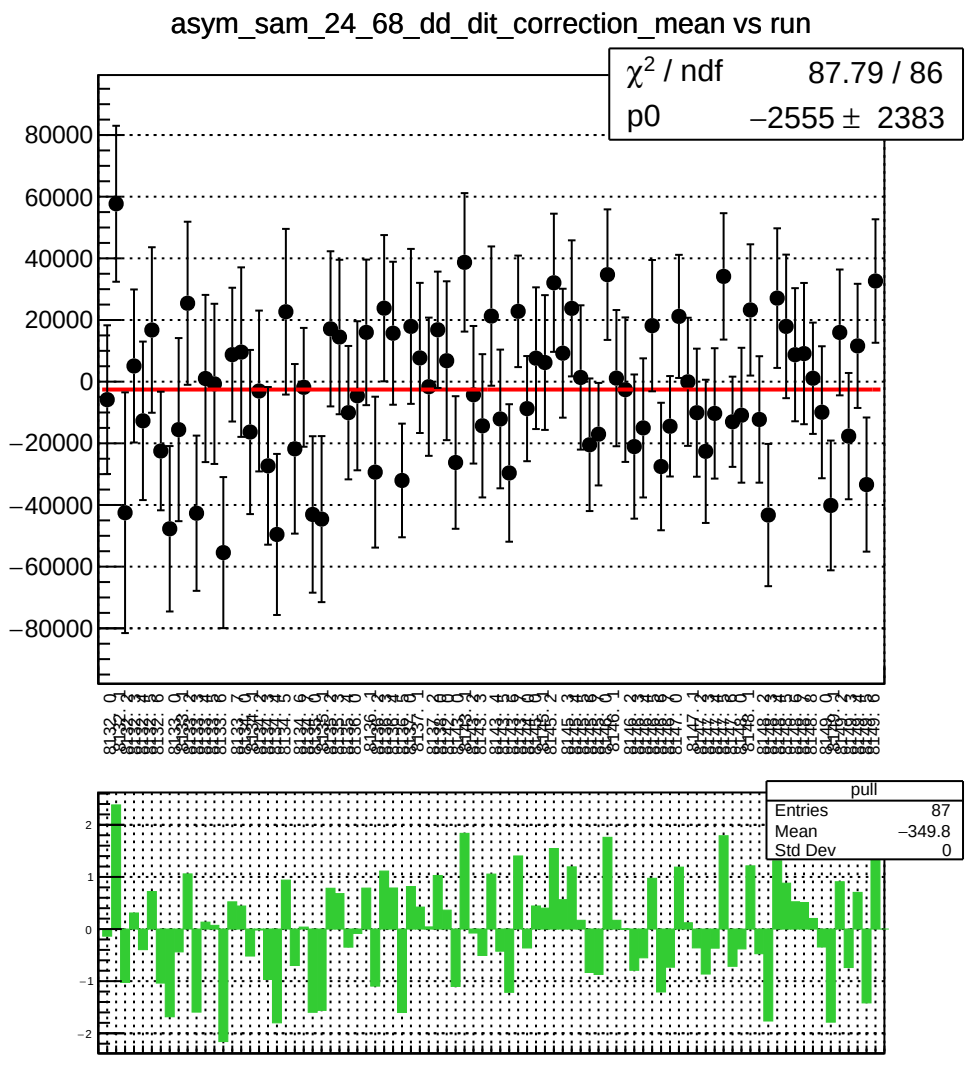

pull1D
Entries 87
Mean −0.006833
Std Dev 1.009
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

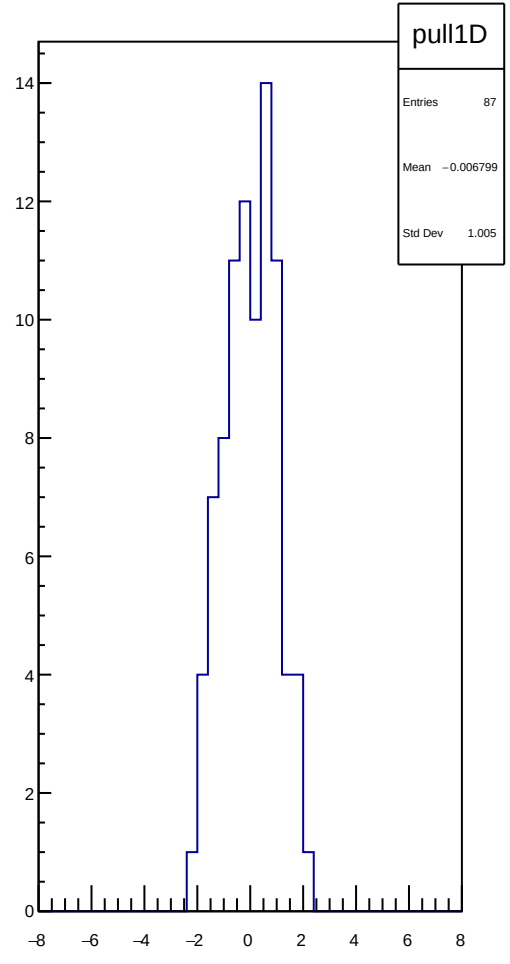

asym_sam_24_68_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.654e+04 / 86
p0 2164 ± 1.658
3800
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800

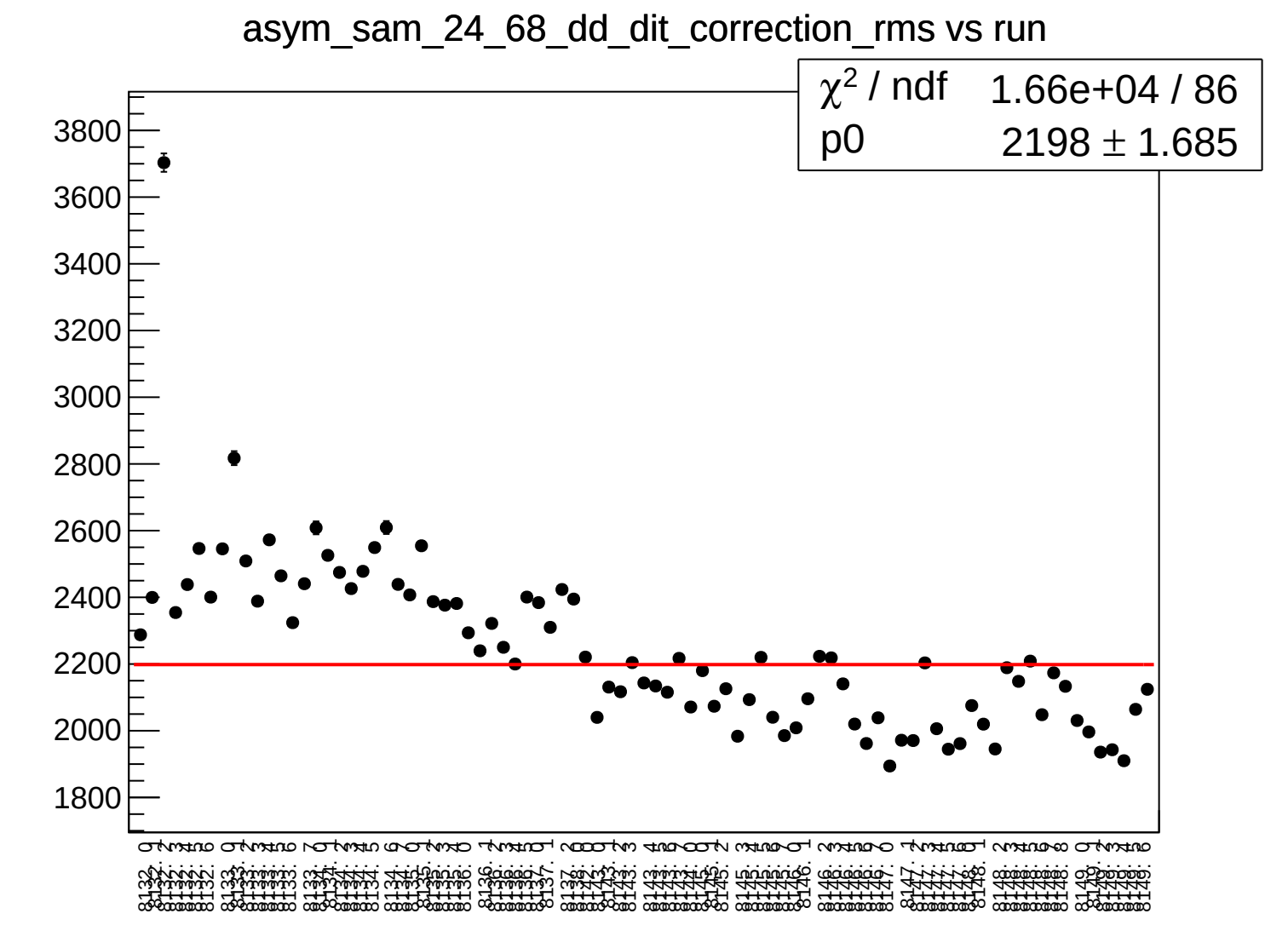

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 79.44 / 86
p0 −38.47 ± 103.9
pull
Entries 87
Mean −3976
Std Dev 0

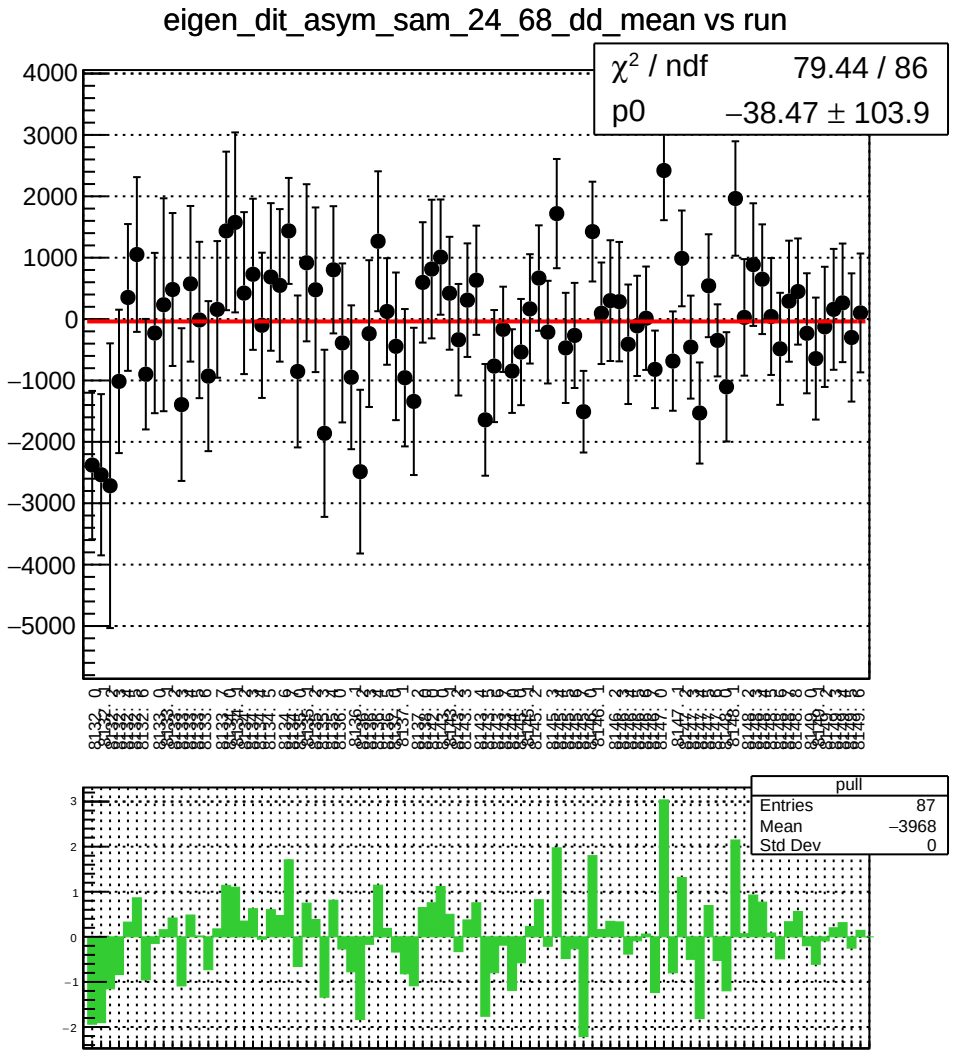

pull1D
Entries 87
Mean −0.0006647
Std Dev 0.9556

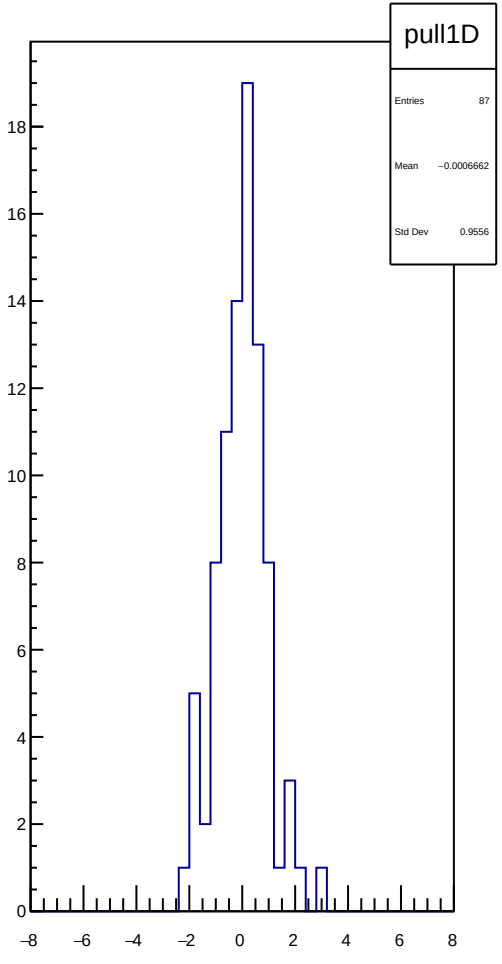

dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 5.768e+04 / 86
p0 94.73 ± 0.0735
220
200
180
160
140
120
100
80
60

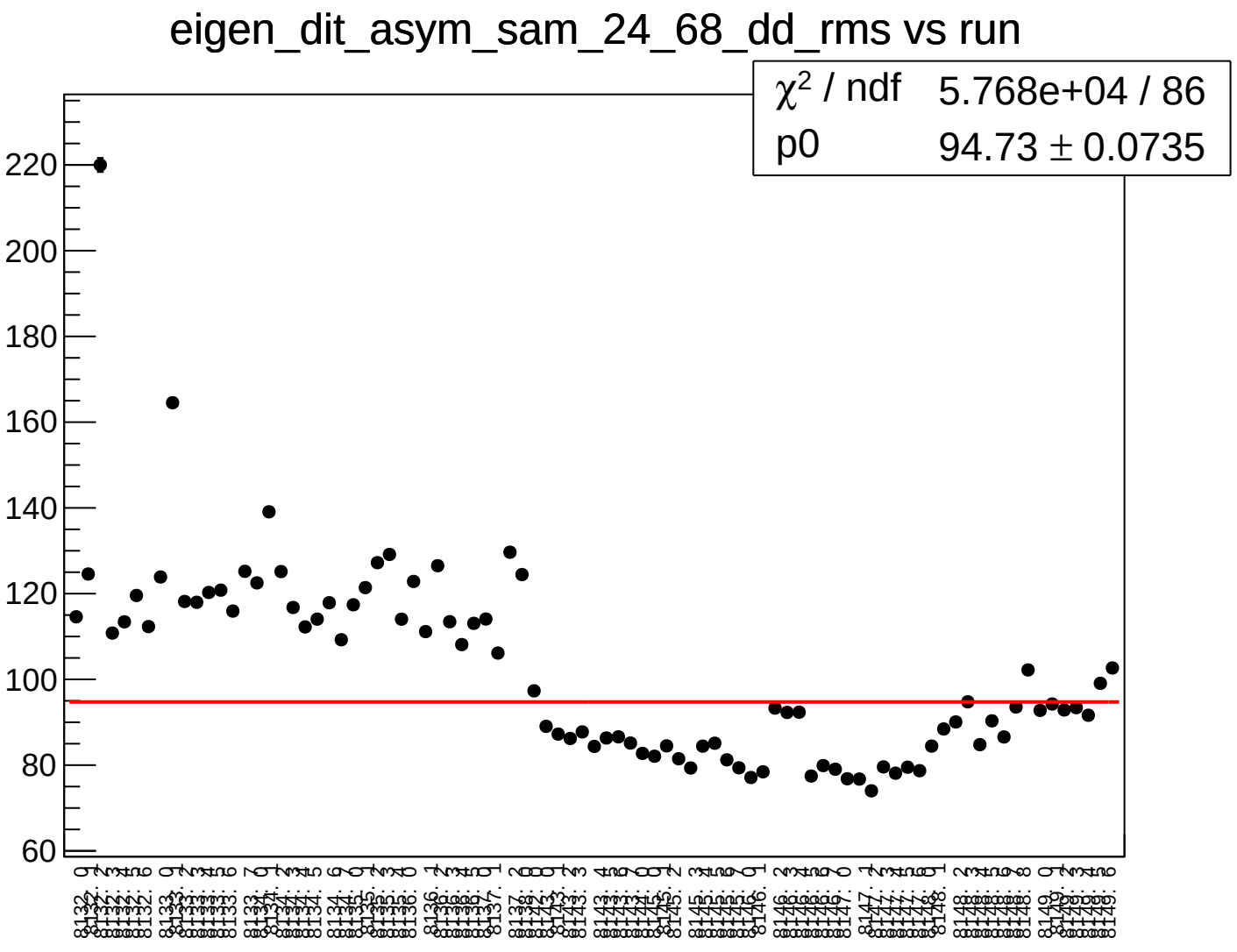

asym_sam_24_68_dd_dit_correction_mean vs run
χ² / ndf 87.79 / 86
p0 −2555 ± 2383
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean −349.8
Std Dev 0
2
1
0
−1
−2

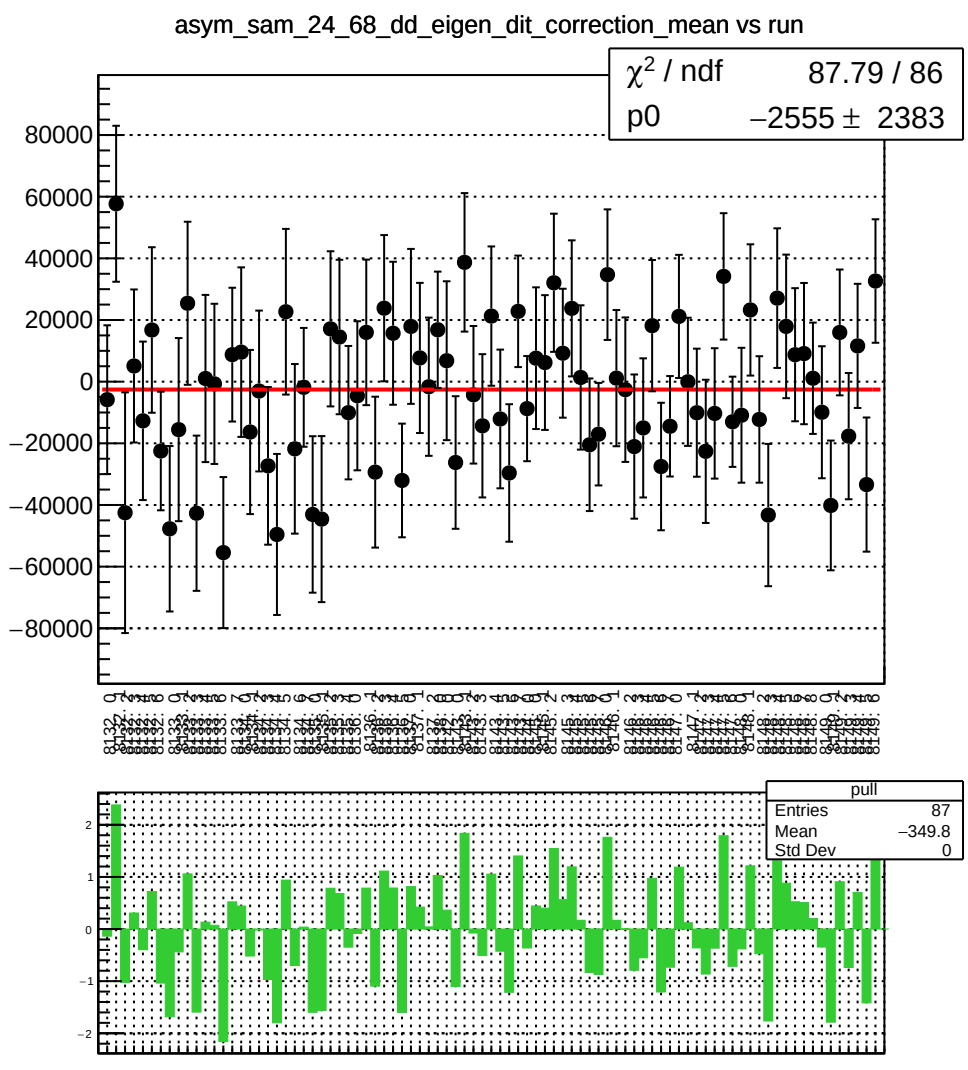

pull1D
Entries 87
Mean −0.006799
Std Dev 1.005
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

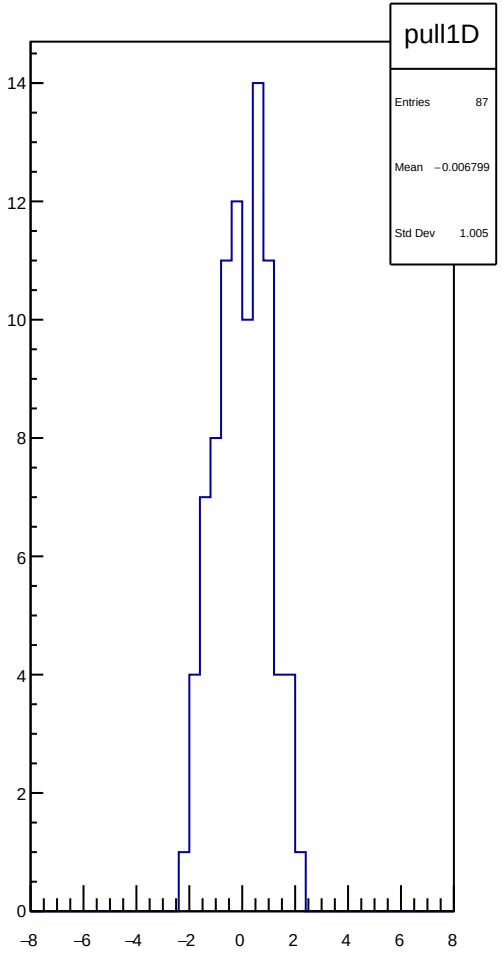

asym_sam_24_68_dd_dit_correction_rms vs run
χ² / ndf 1.66e+04 / 86
p0 2198 ± 1.685
3800
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800

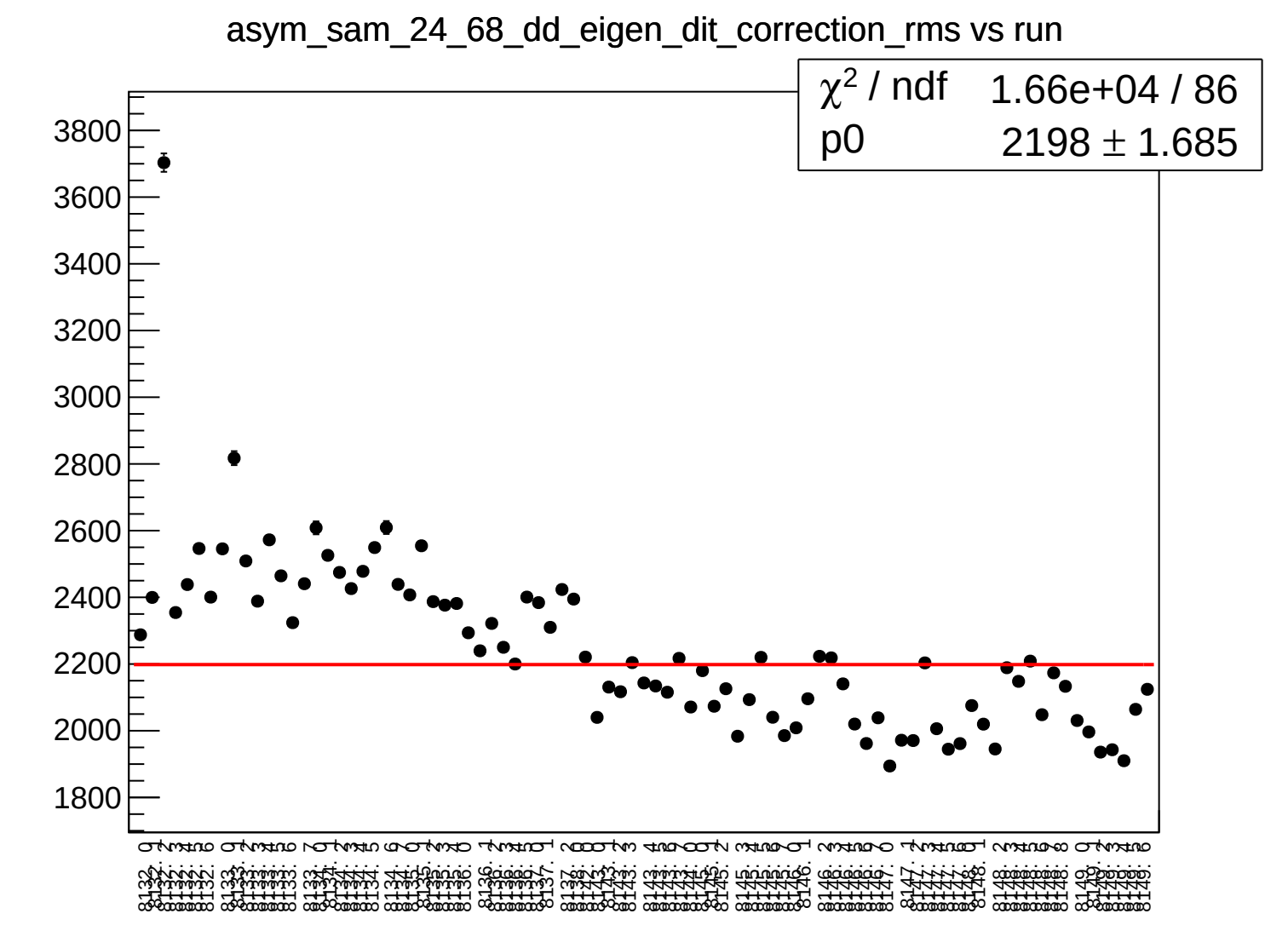

eigen_dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 79.44 / 86
p0 −38.47 ± 103.9
pull
Entries 87
Mean −3968
Std Dev 0

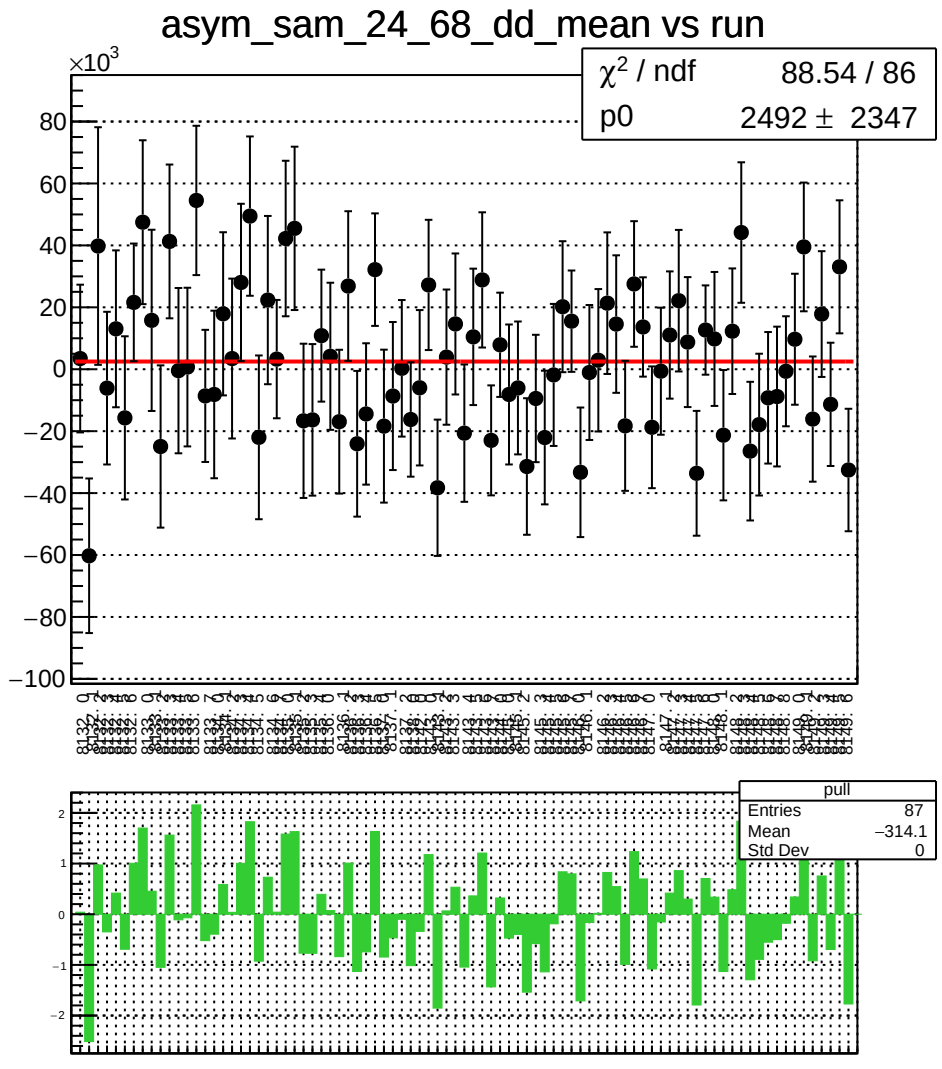

pull1D
Entries 87
Mean −0.0006662
Std Dev 0.9556

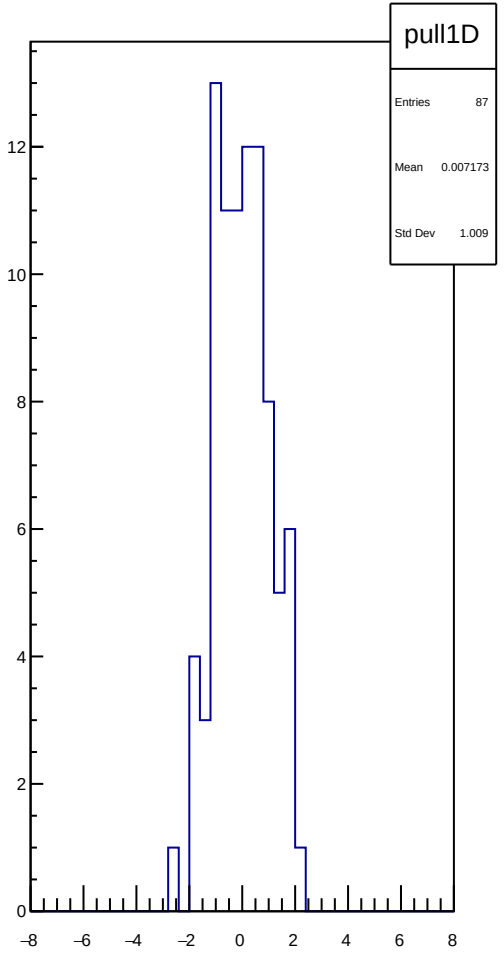

eigen_dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 5.768e+04 / 86
p0 94.73 ± 0.0735
220
200
180
160
140
120
100
80
60

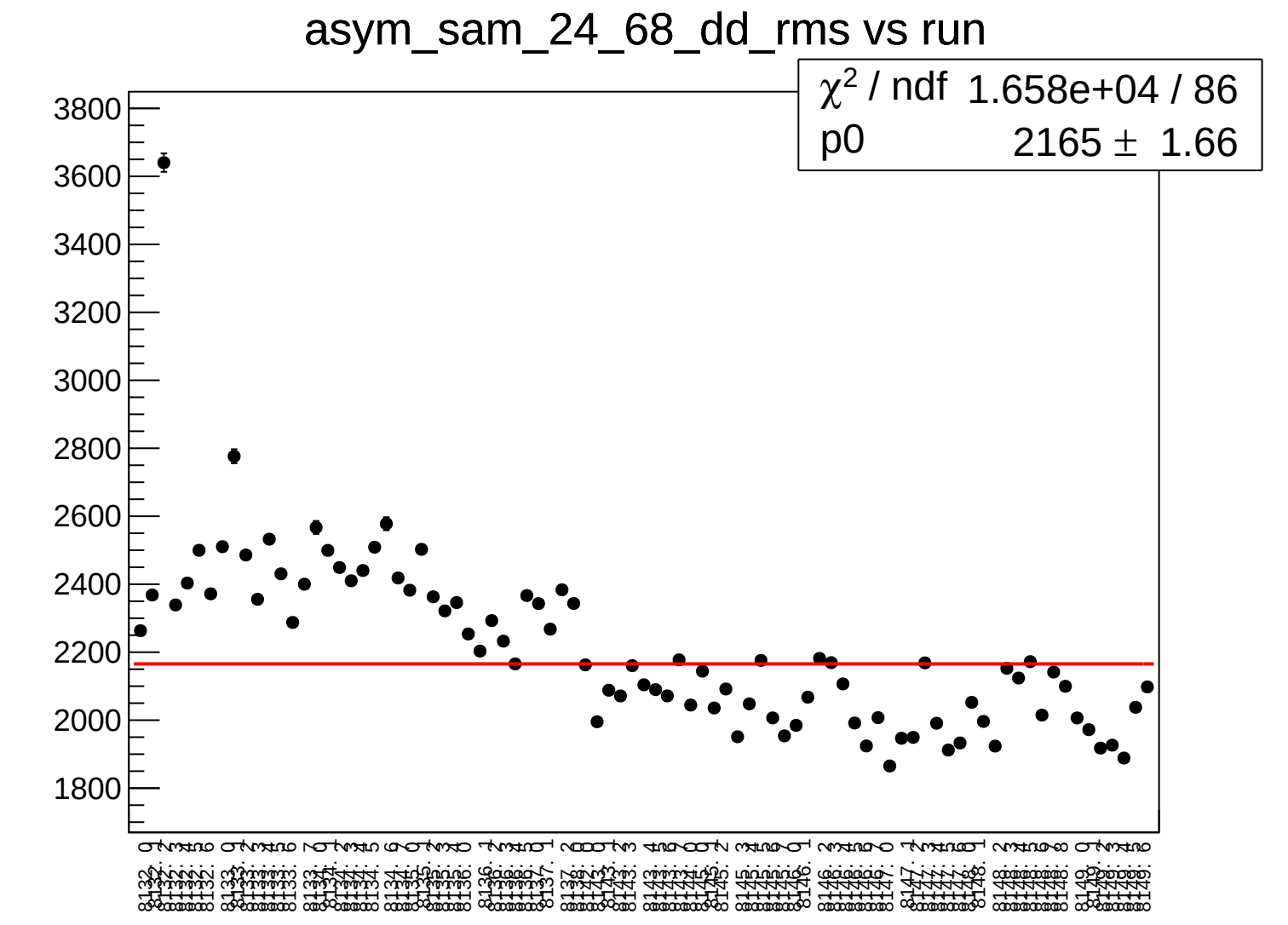

asym_sam_24_68_dd_eigen_dit_correction_mean vs run
χ² / ndf 87.79 / 86
p0 −2555 ± 2383
pull
Entries 87
Mean −349.8
Std Dev 0

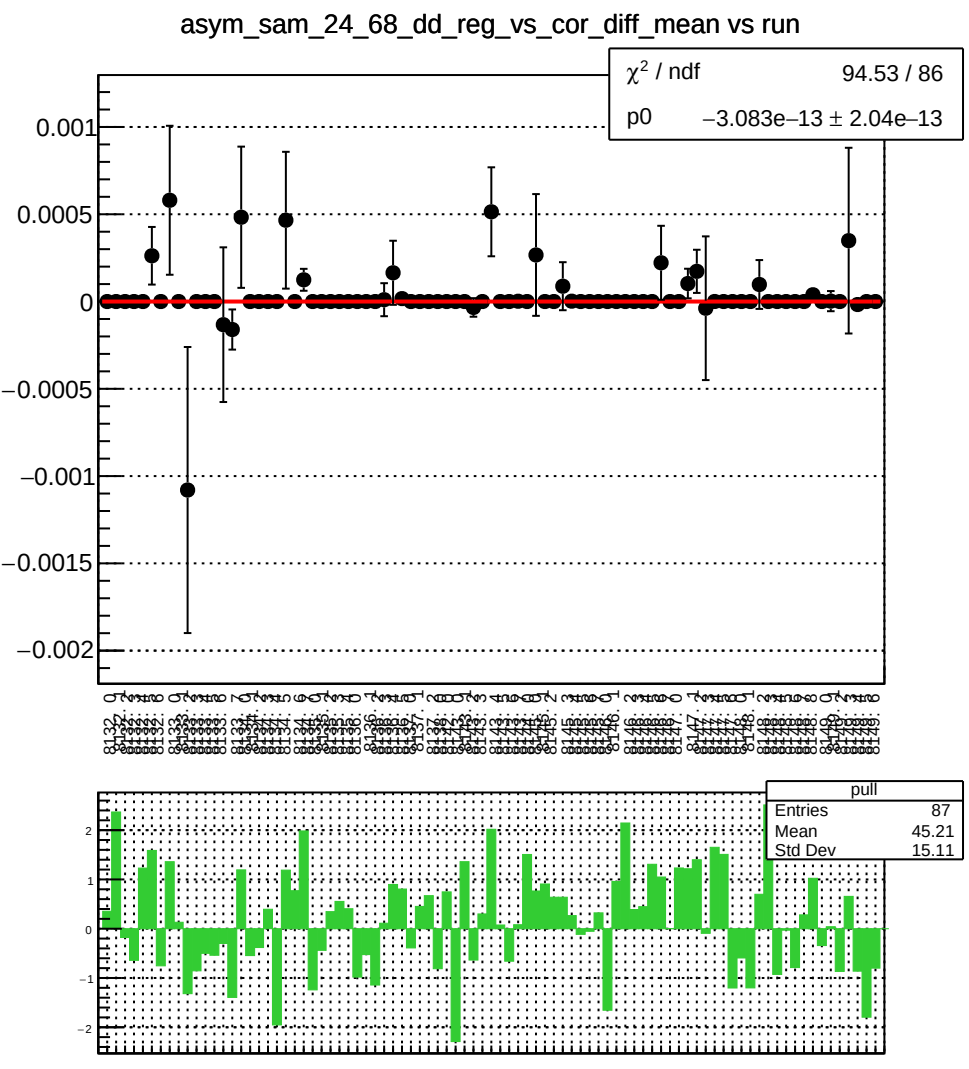

pull1D
Entries 87
Mean −0.006799
Std Dev 1.005

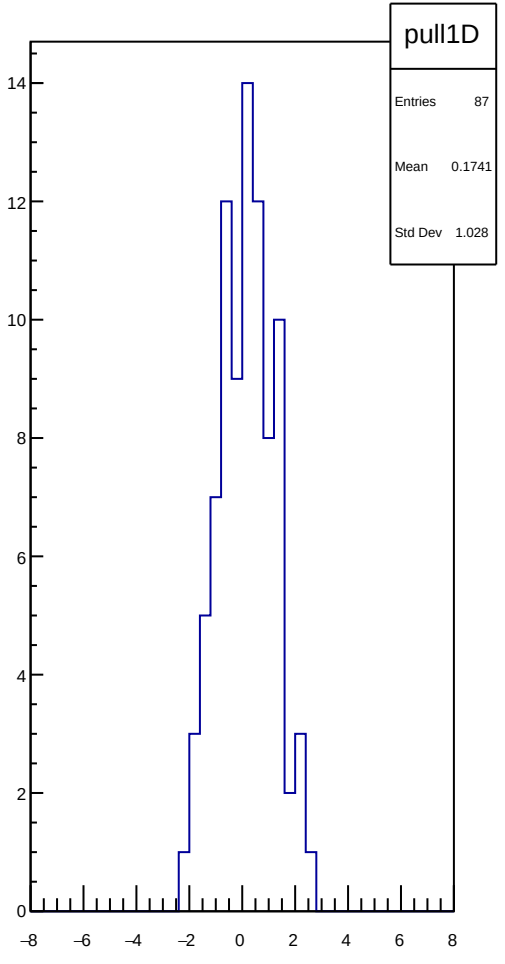

asym_sam_24_68_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.66e+04 / 86
p0 2198 ± 1.685
3800
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800

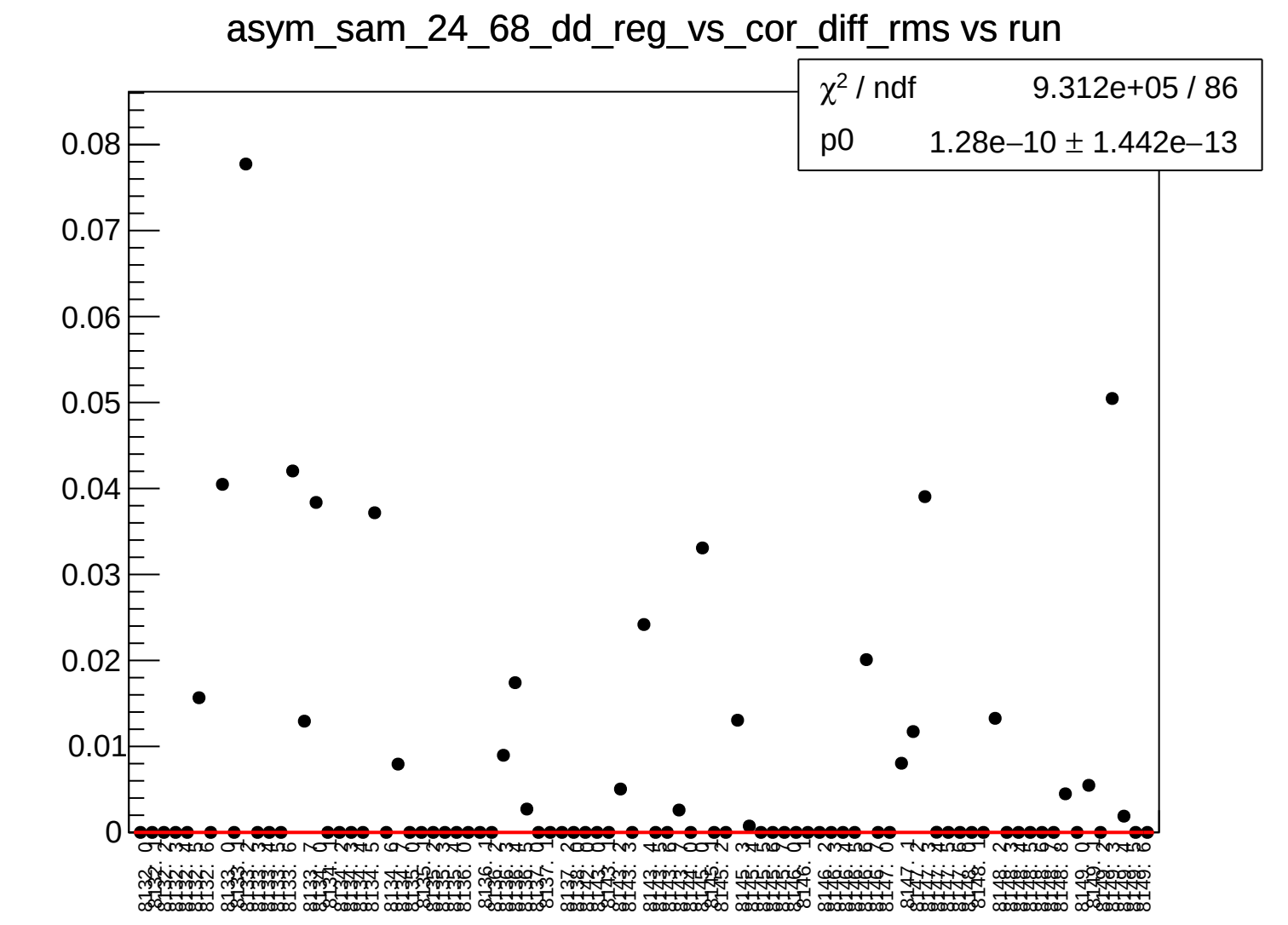

asym_sam_24_68_dd_mean vs run
χ² / ndf 88.54 / 86
p0 2492 ± 2347
×10³
pull
Entries 87
Mean −314.1
Std Dev 0

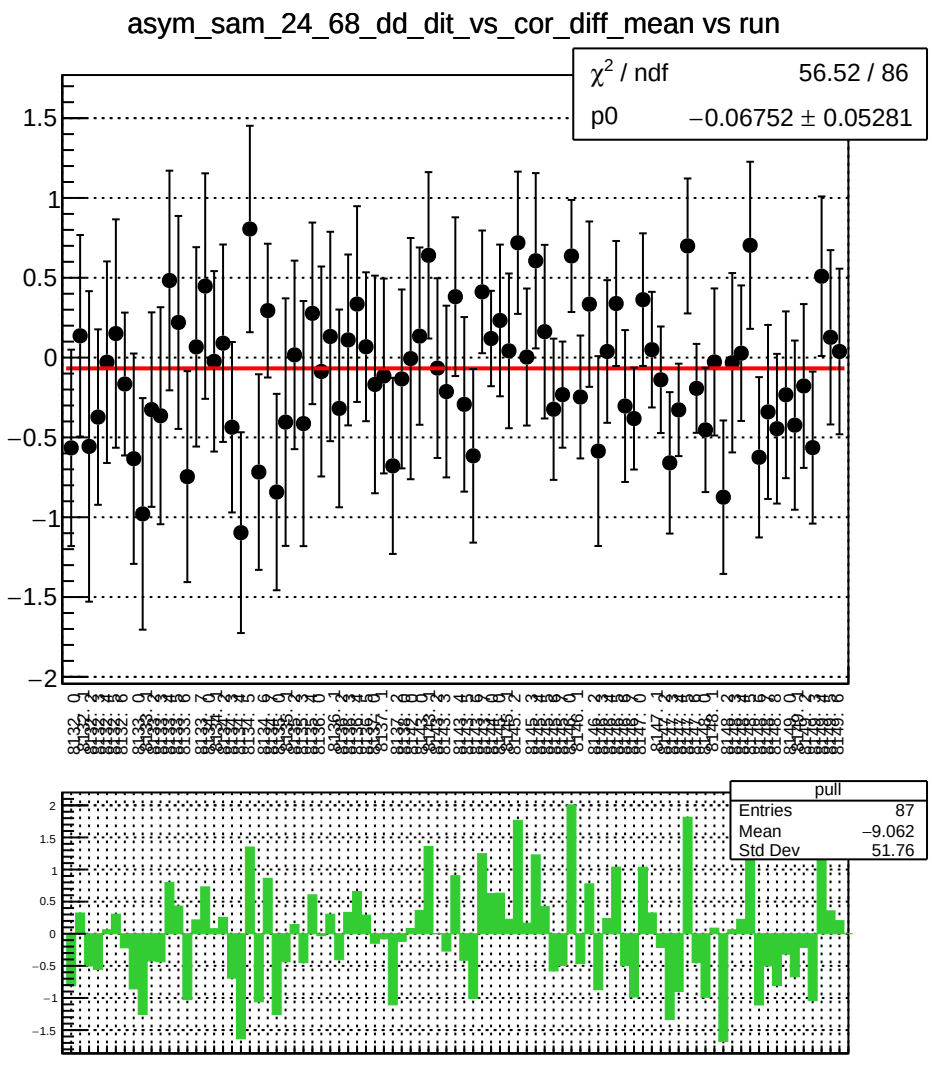

pull1D
Entries 87
Mean 0.007173
Std Dev 1.009

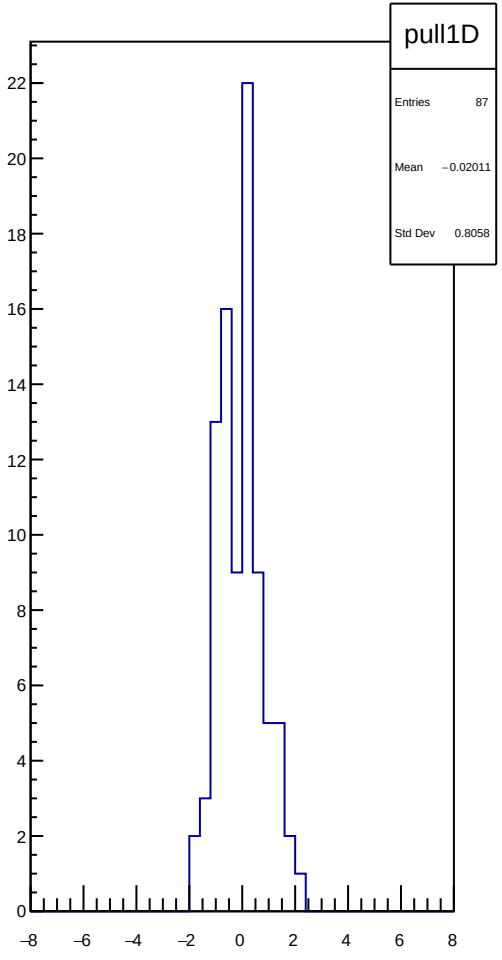

asym_sam_24_68_dd_rms vs run
χ² / ndf 1.658e+04 / 86
p0 2165 ± 1.66
3800
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800

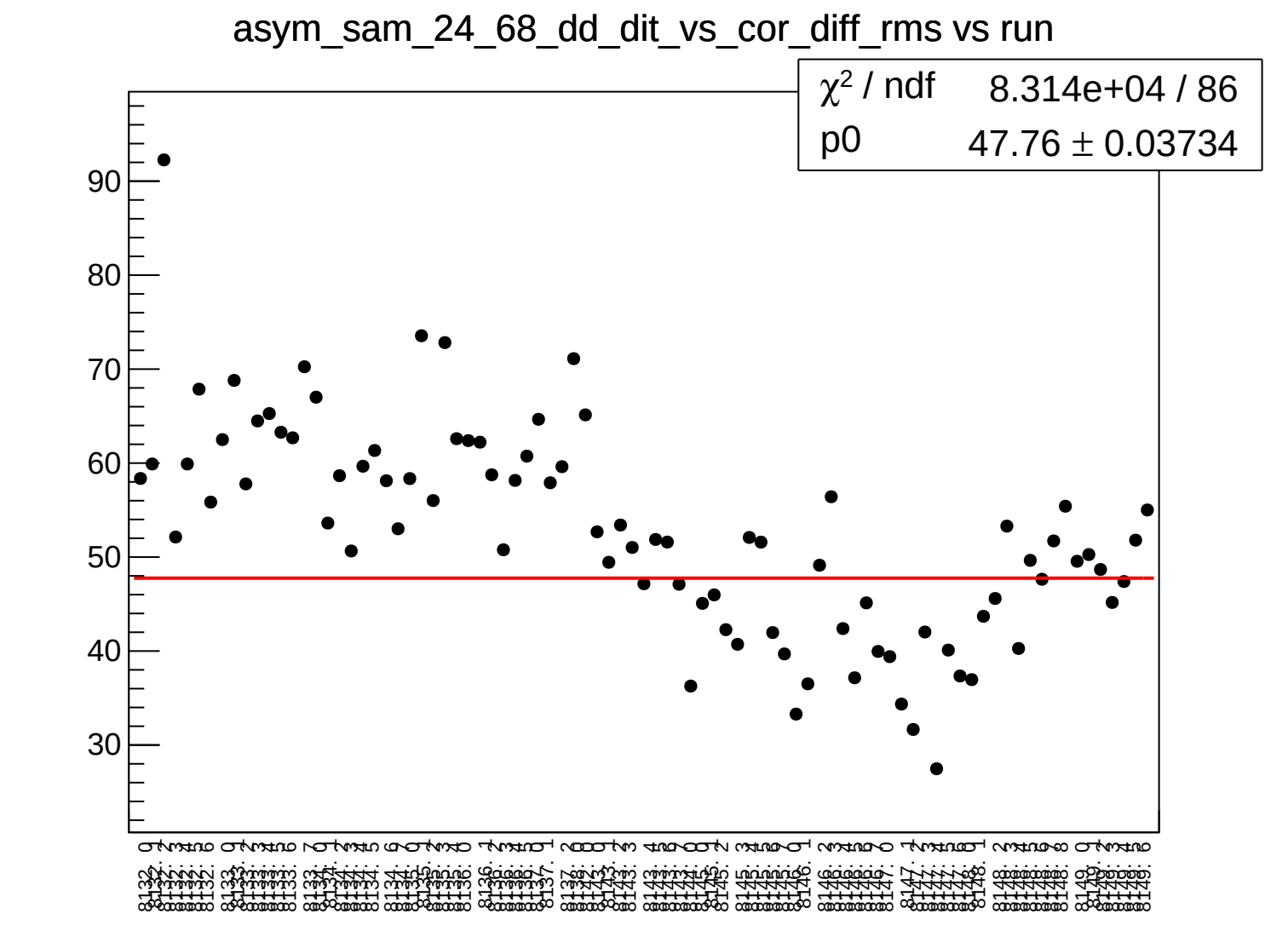

asym_sam_24_68_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 94.53 / 86
p0 −3.083e−13 ± 2.04e−13
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 87
Mean 45.21
Std Dev 15.11
2
1
0
−1
−2

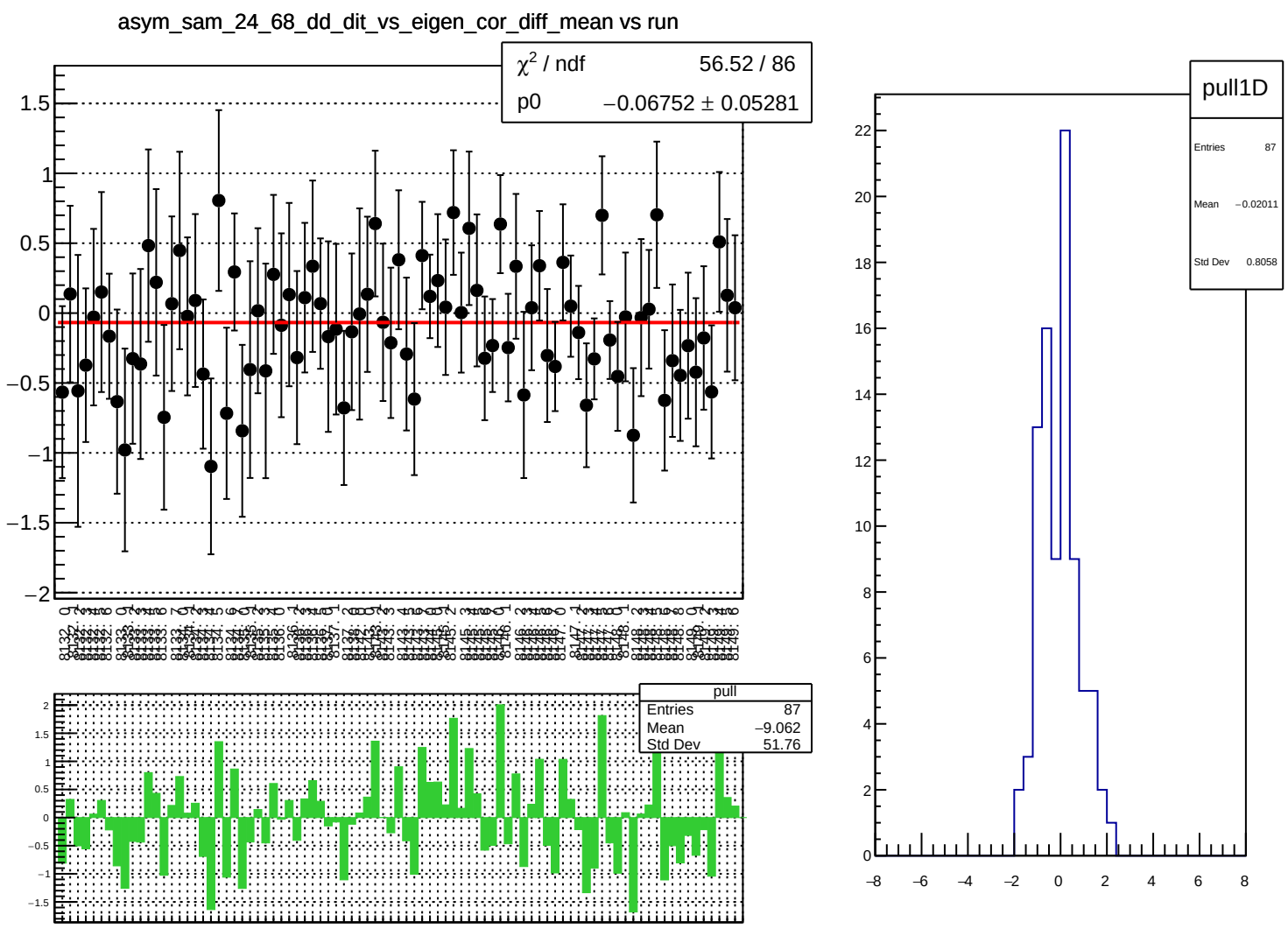

pull1D
Entries 87
Mean 0.1741
Std Dev 1.028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

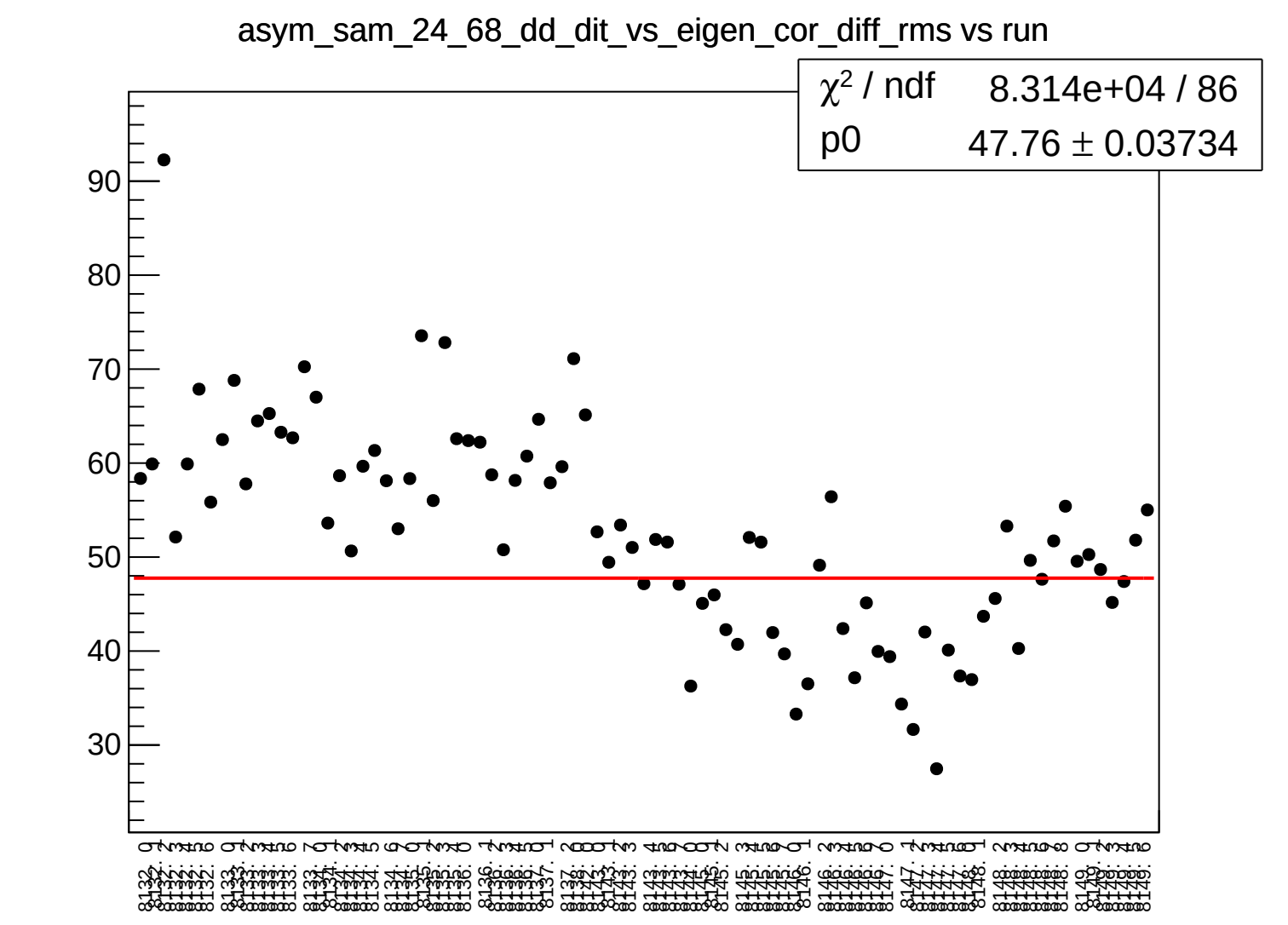

asym_sam_24_68_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.312e+05 / 86
p0 1.28e−10 ± 1.442e−13
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

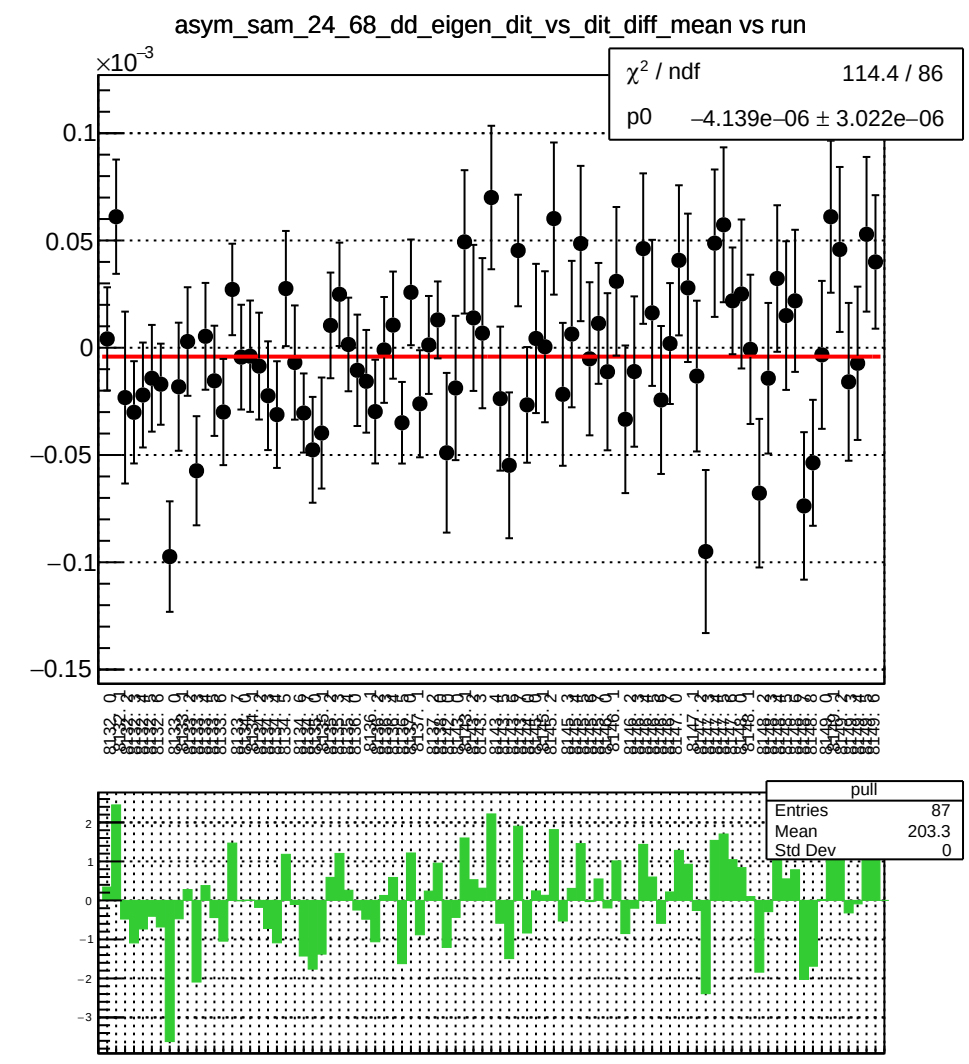

asym_sam_24_68_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 56.52 / 86
p0 −0.06752 ± 0.05281
pull
Entries 87
Mean −9.062
Std Dev 51.76

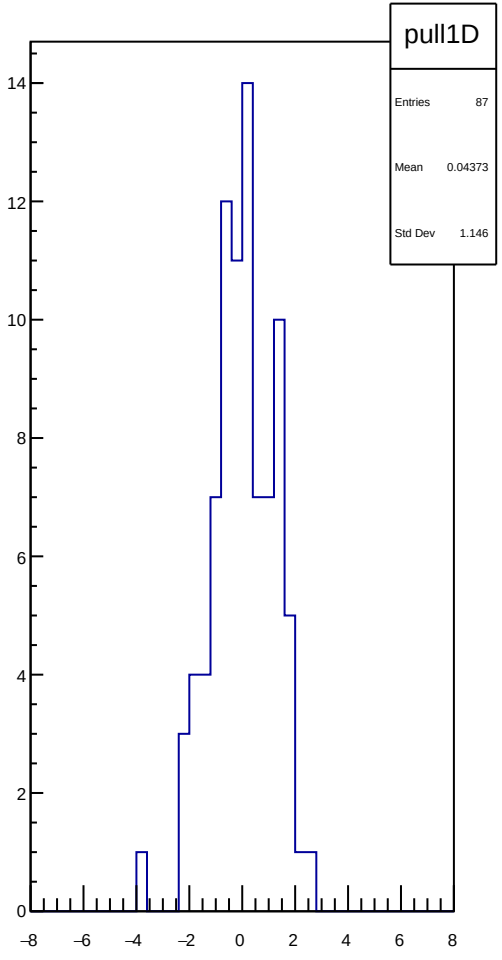

pull1D
Entries 87
Mean −0.02011
Std Dev 0.8058

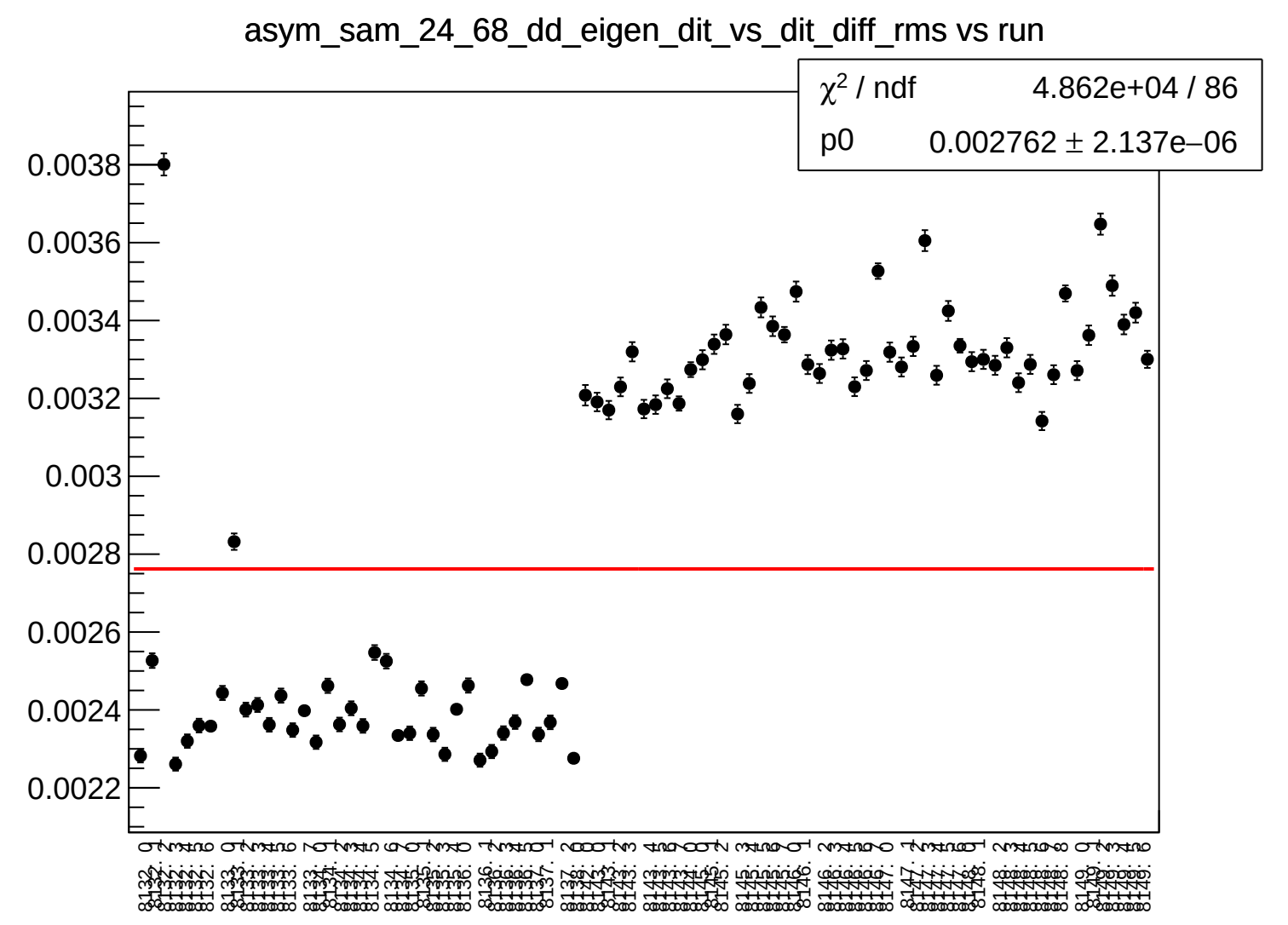

asym_sam_24_68_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8.314e+04 / 86
p0 47.76 ± 0.03734
90
80
70
60
50
40
30

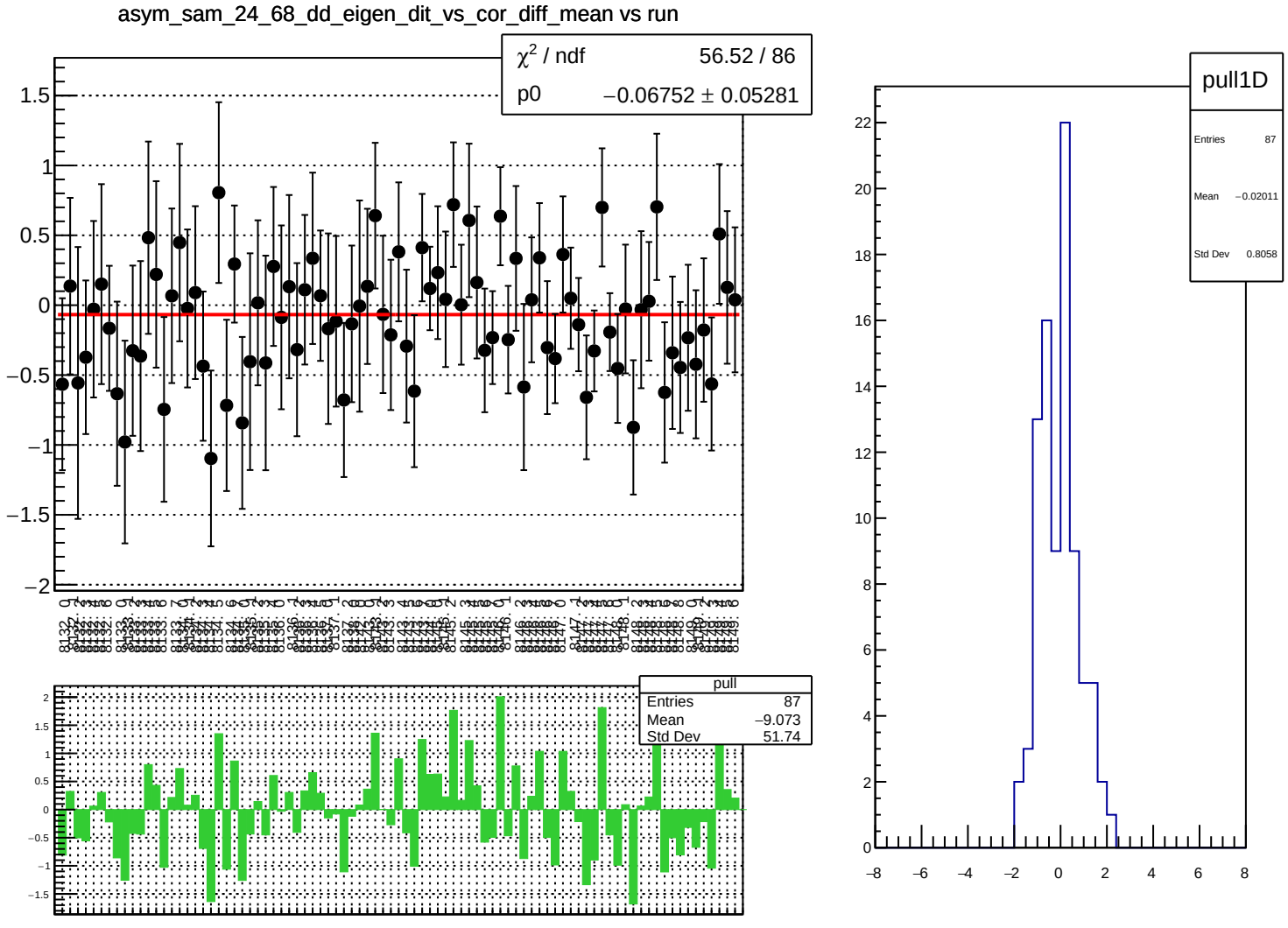

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 56.52 / 86
p0 −0.06752 ± 0.05281
pull
Entries 87
Mean −9.062
Std Dev 51.76
pull1D
Entries 87
Mean −0.02011
Std Dev 0.8058

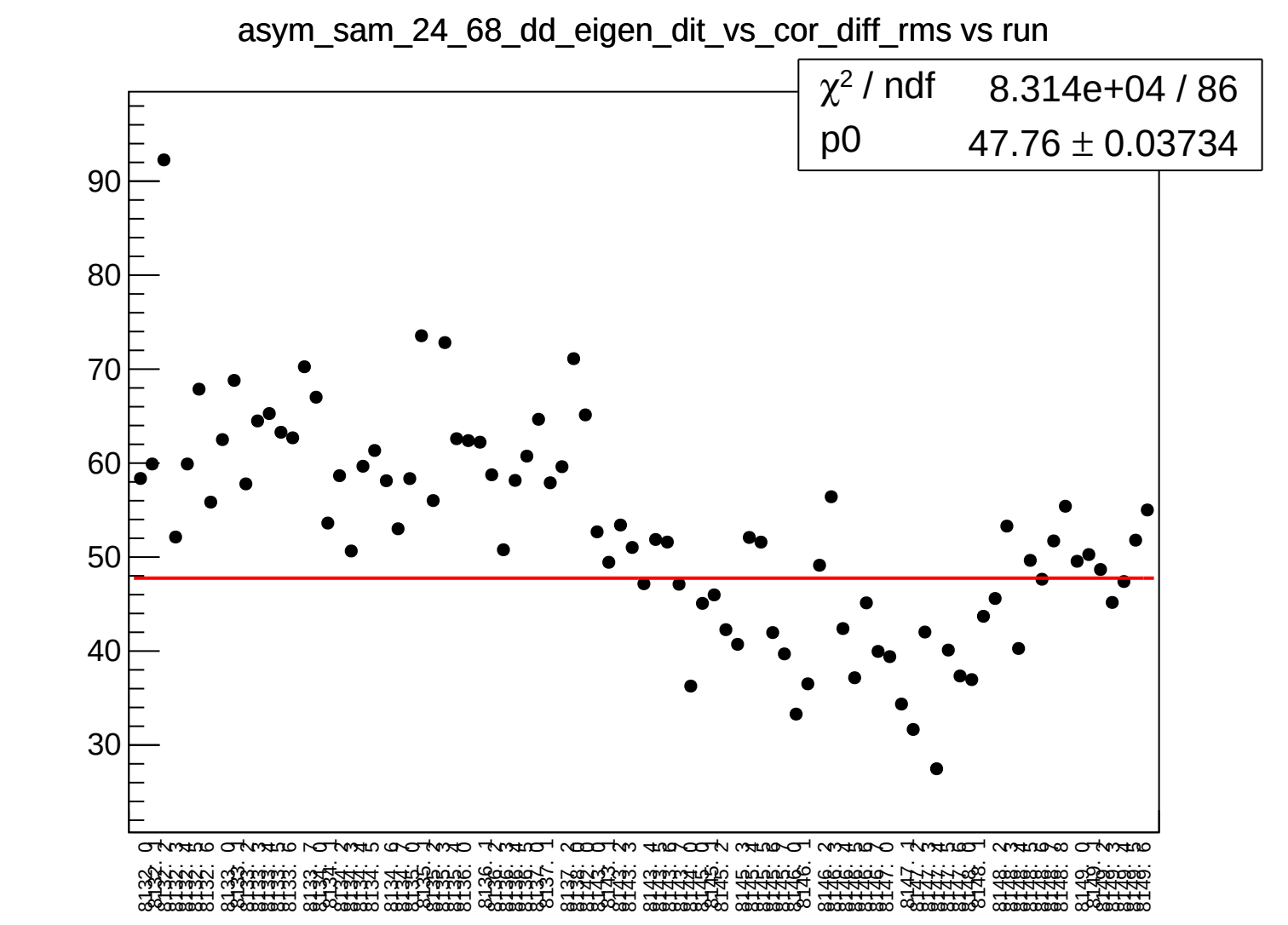

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.314e+04 / 86
p0 47.76 ± 0.03734
90
80
70
60
50
40
30

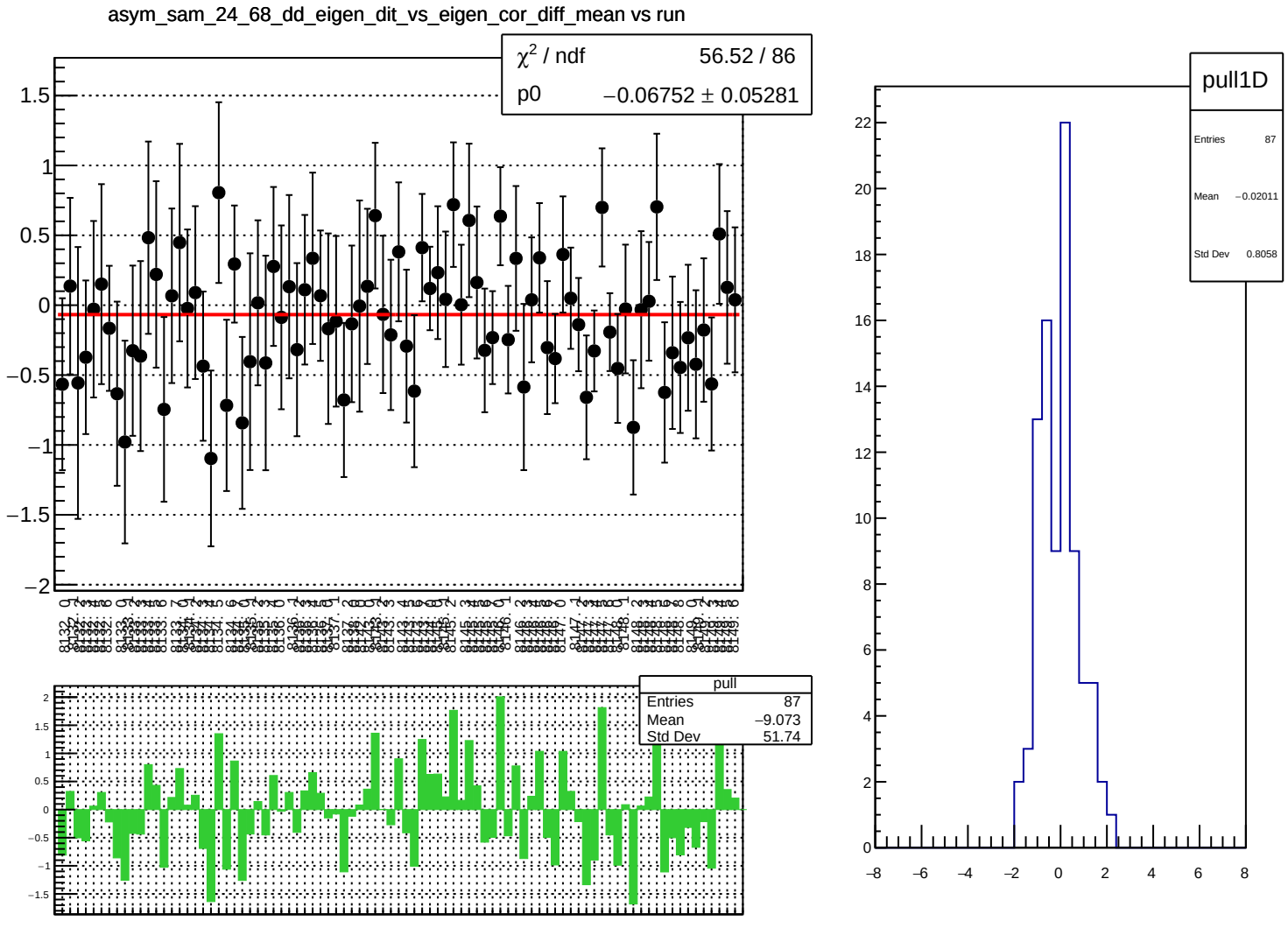

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 114.4 / 86
p0 −4.139e−06 ± 3.022e−06
pull
Entries 87
Mean 203.3
Std Dev 0

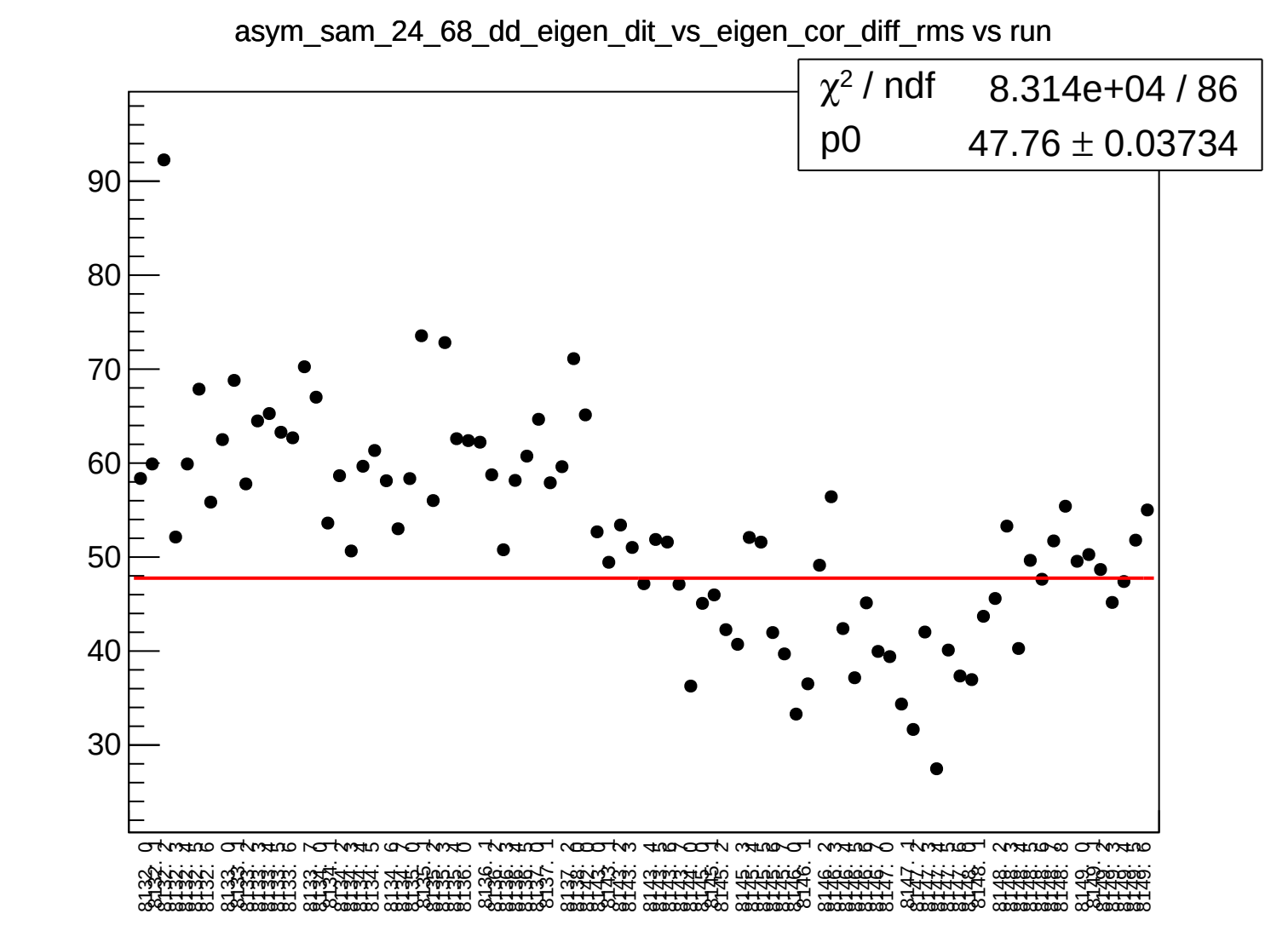

pull1D
Entries 87
Mean 0.04373
Std Dev 1.146

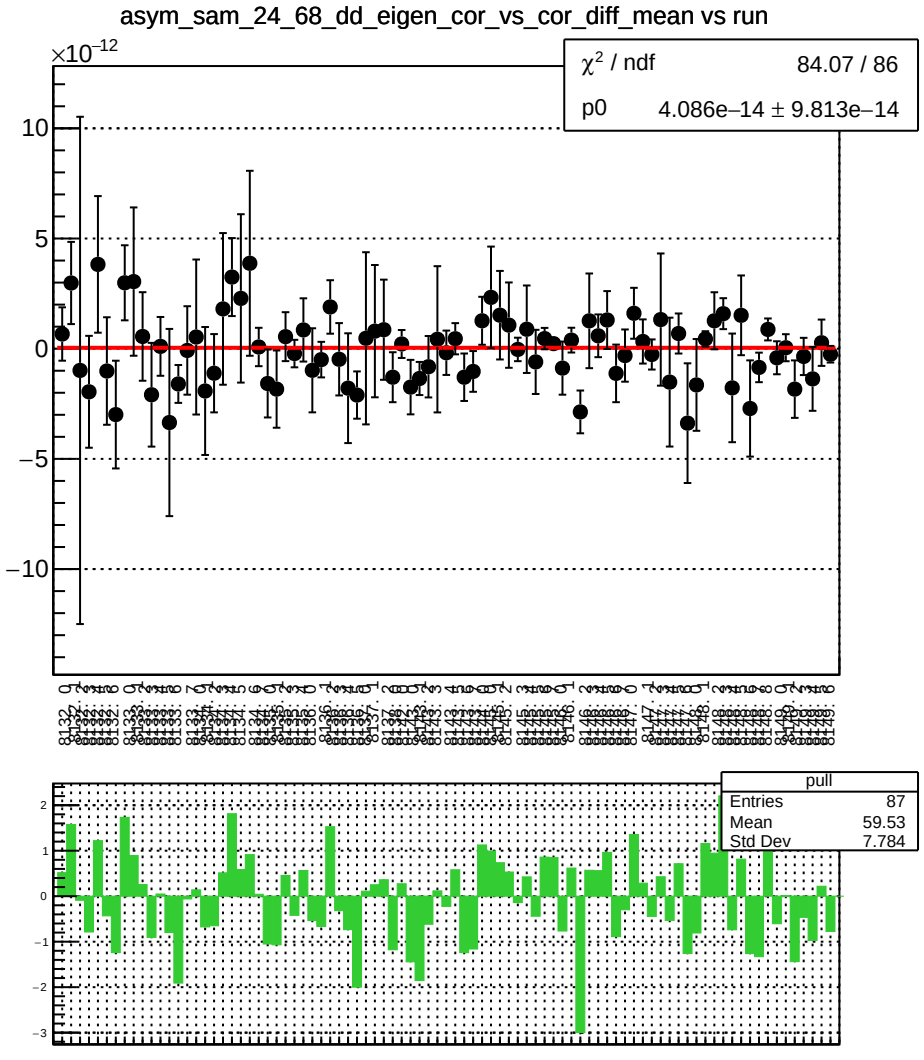

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.862e+04 / 86
p0 0.002762 ± 2.137e−06
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022

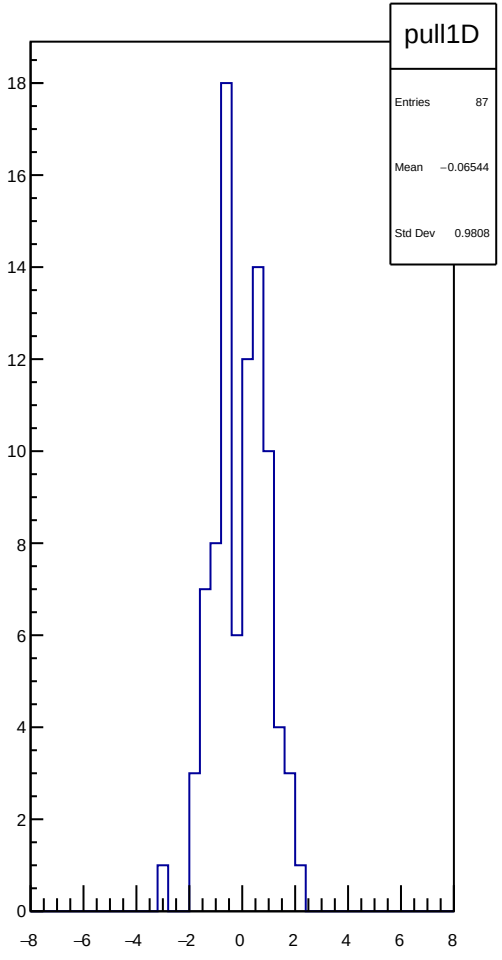

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 56.52 / 86
p0 −0.06752 ± 0.05281
pull
Entries 87
Mean −9.073
Std Dev 51.74
pull1D
Entries 87
Mean −0.02011
Std Dev 0.8058

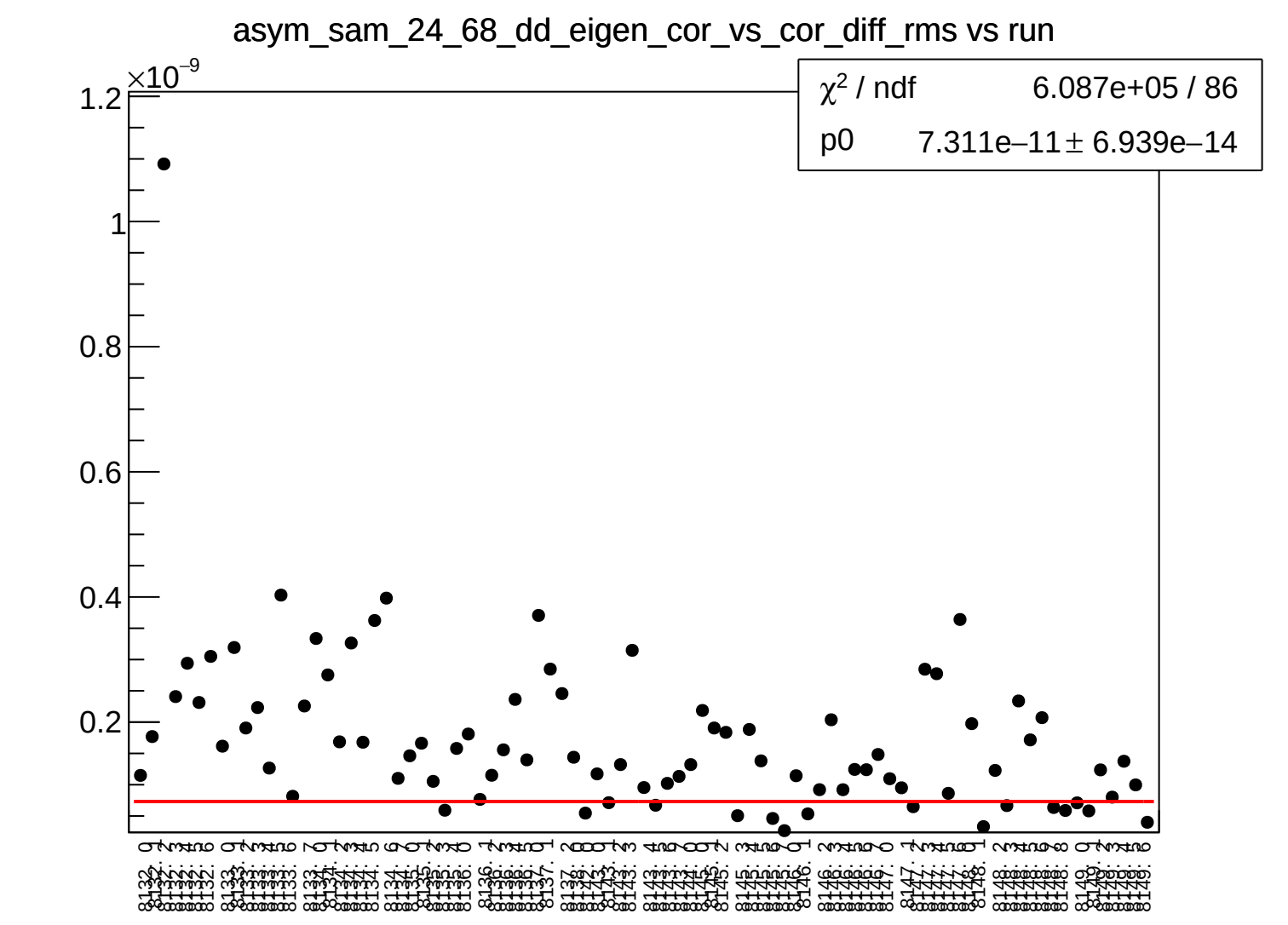

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.314e+04 / 86
p0 47.76 ± 0.03734
90
80
70
60
50
40
30

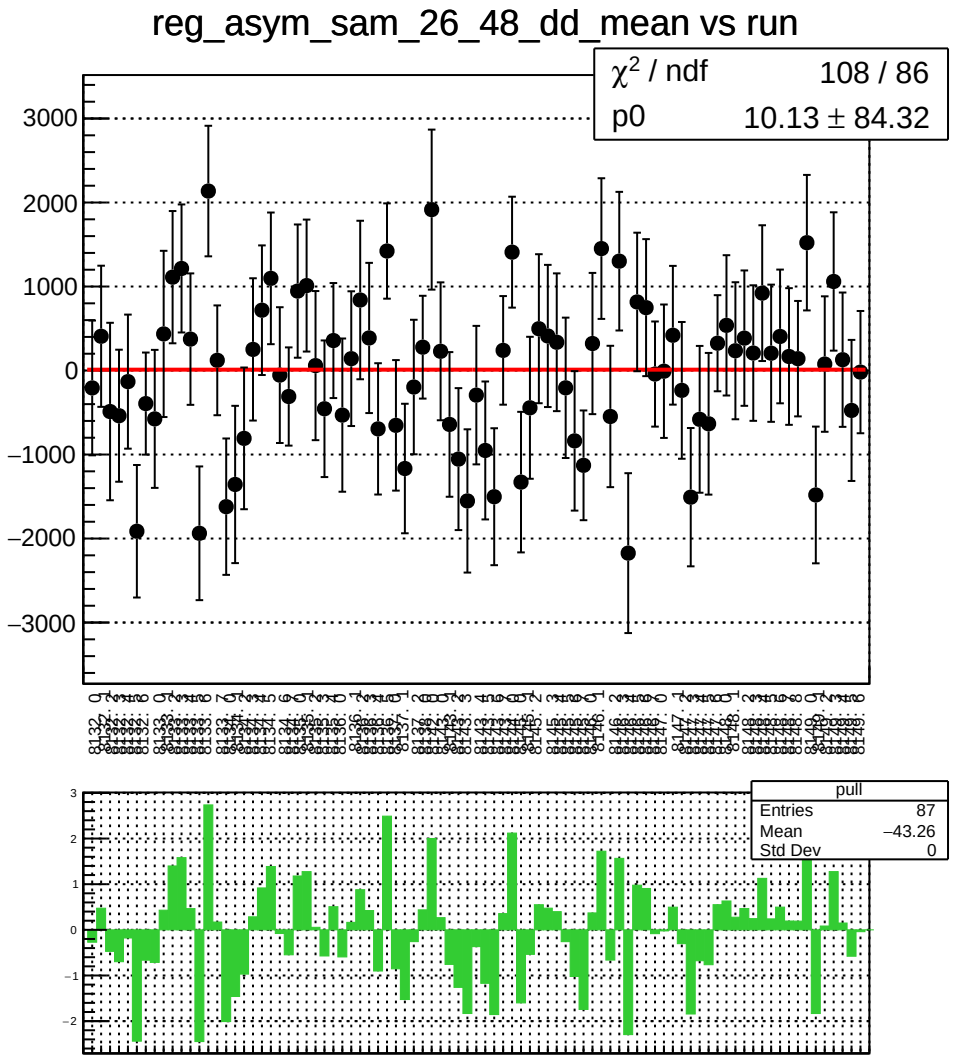

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 56.52 / 86
p0 −0.06752 ± 0.05281
pull
Entries 87
Mean −9.073
Std Dev 51.74
pull1D
Entries 87
Mean −0.02011
Std Dev 0.8058

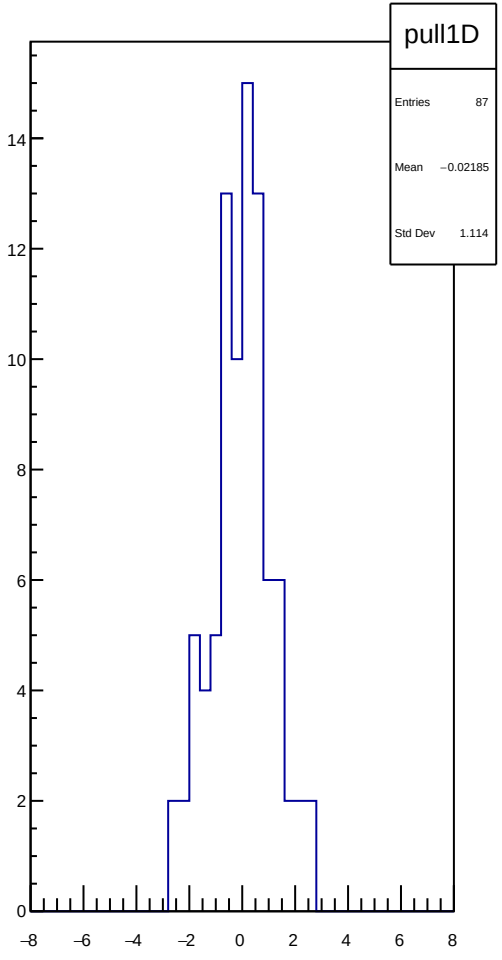

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.314e+04 / 86
p0 47.76 ± 0.03734
90
80
70
60
50
40
30

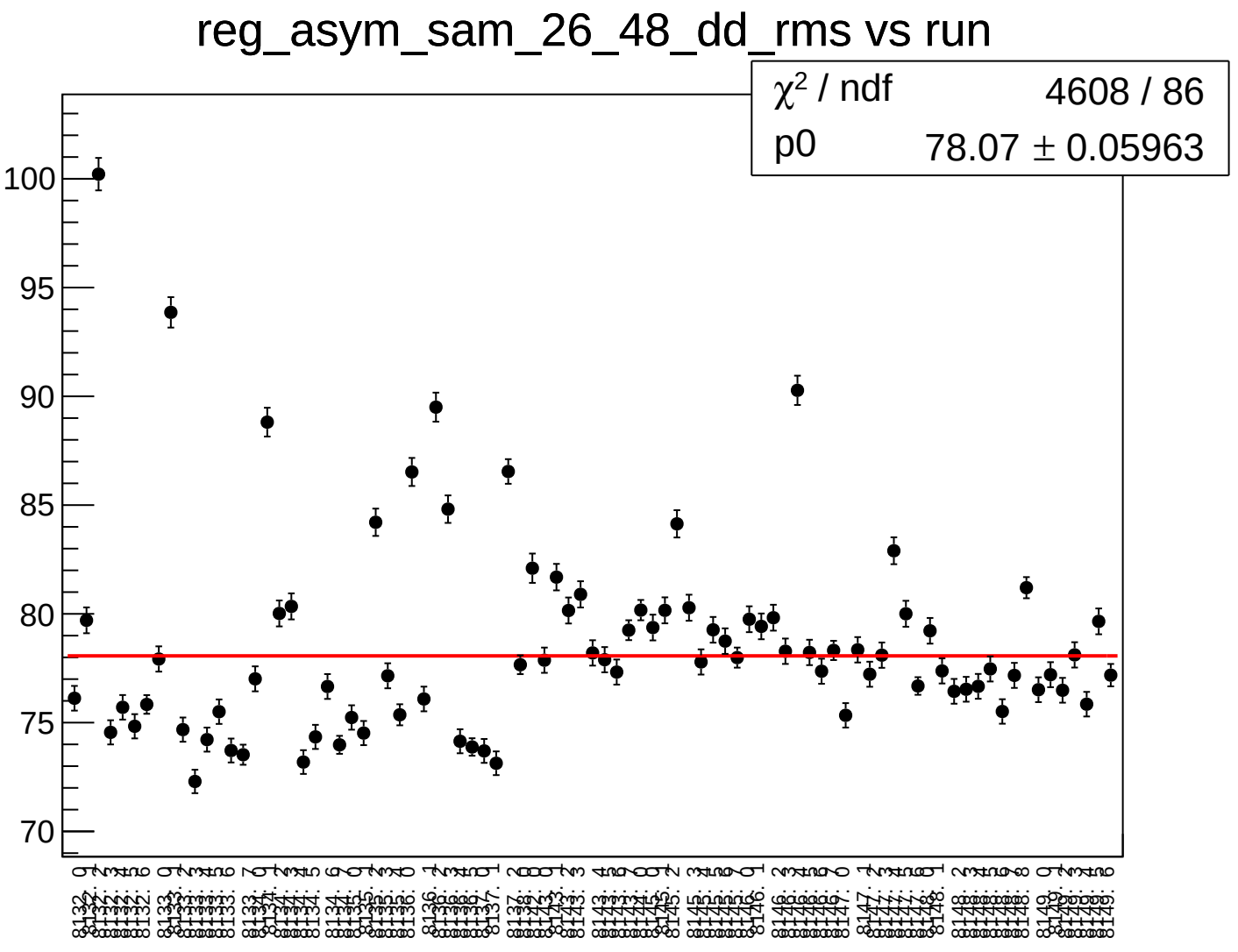

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.07 / 86
p0 4.086e−14 ± 9.813e−14
pull
Entries 87
Mean 59.53
Std Dev 7.784

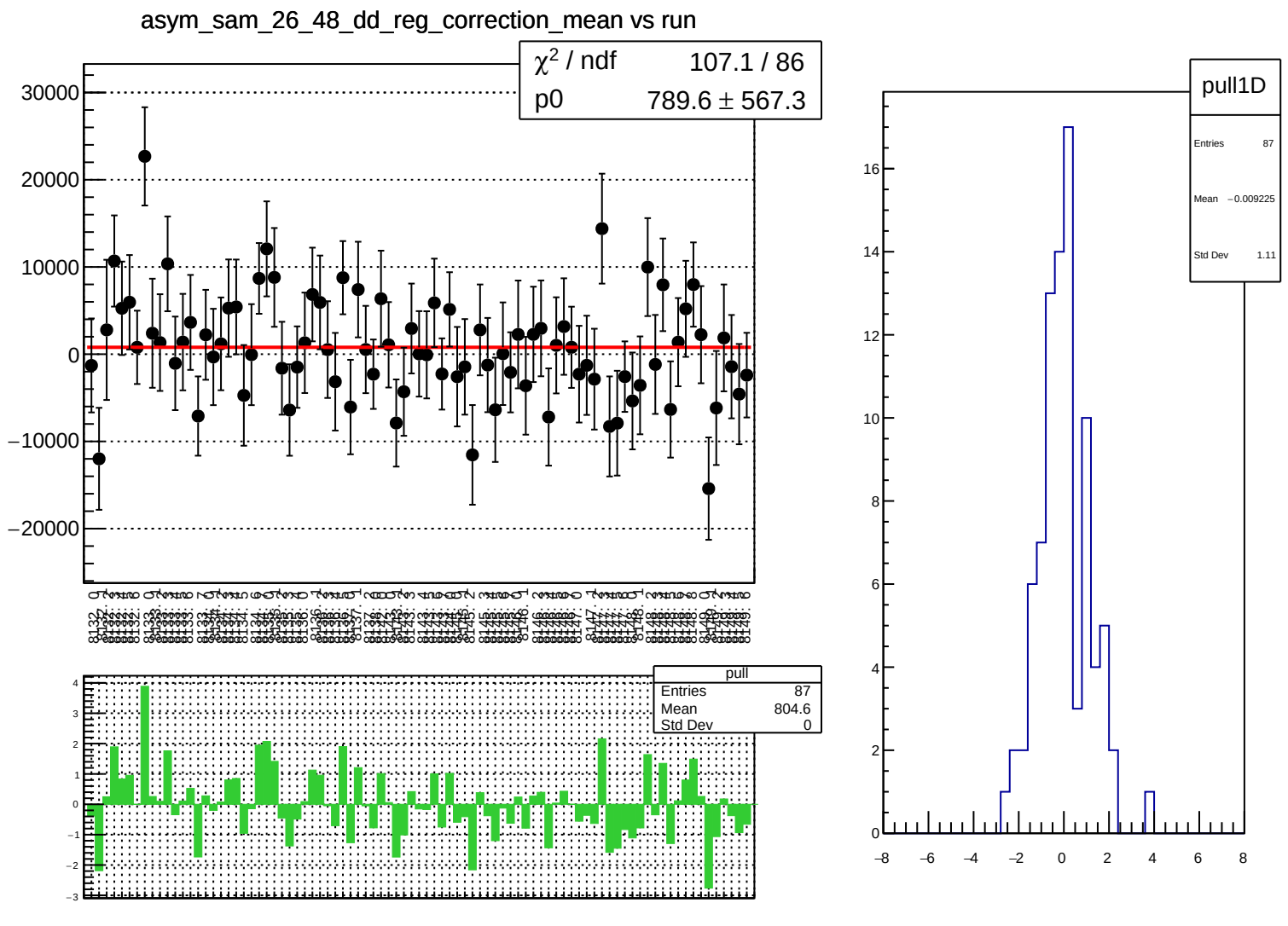

pull1D
Entries 87
Mean −0.06544
Std Dev 0.9808

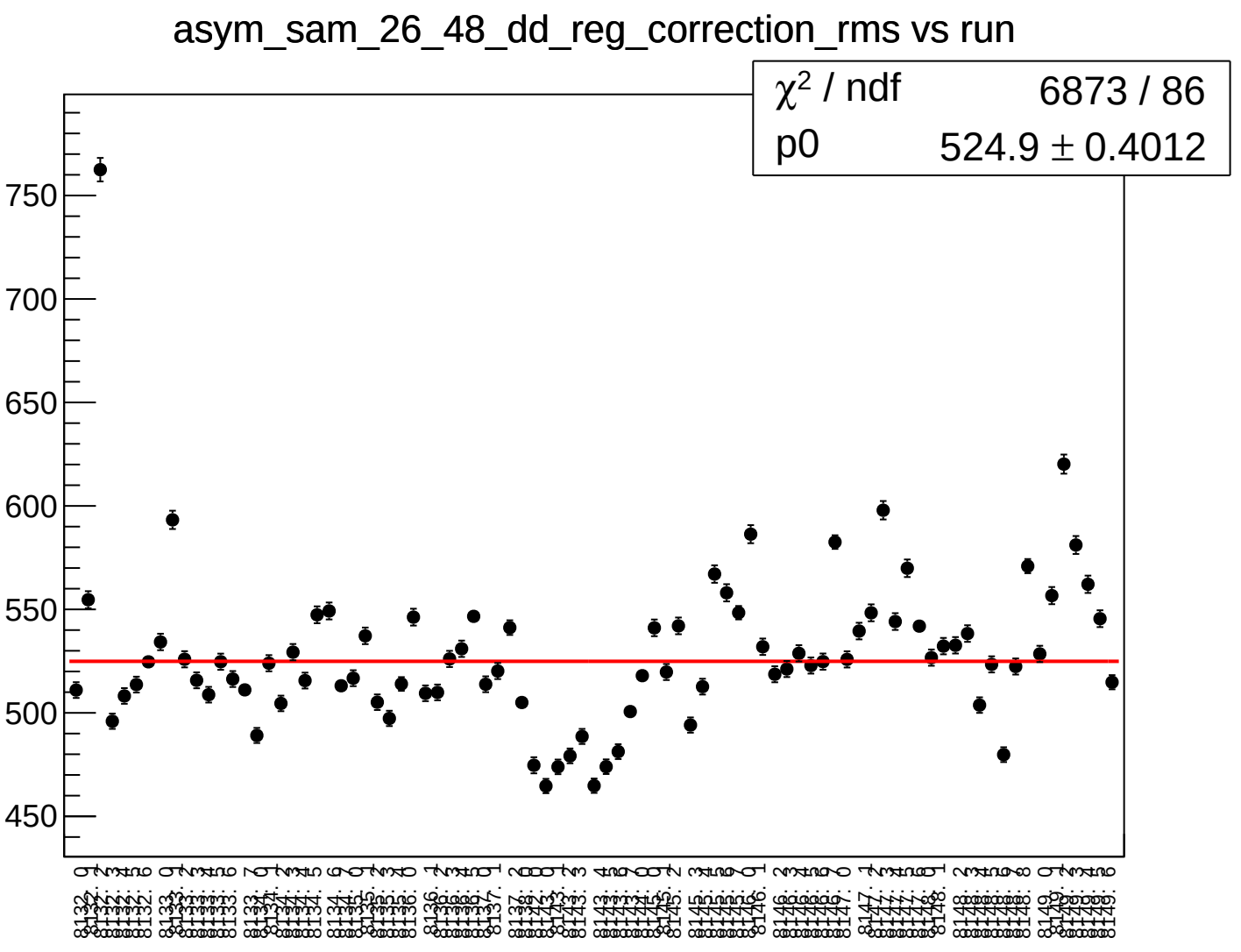

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
1.2
1
0.8
0.6
0.4
0.2
χ² / ndf 6.087e+05 / 86
p0 7.311e−11 ± 6.939e−14

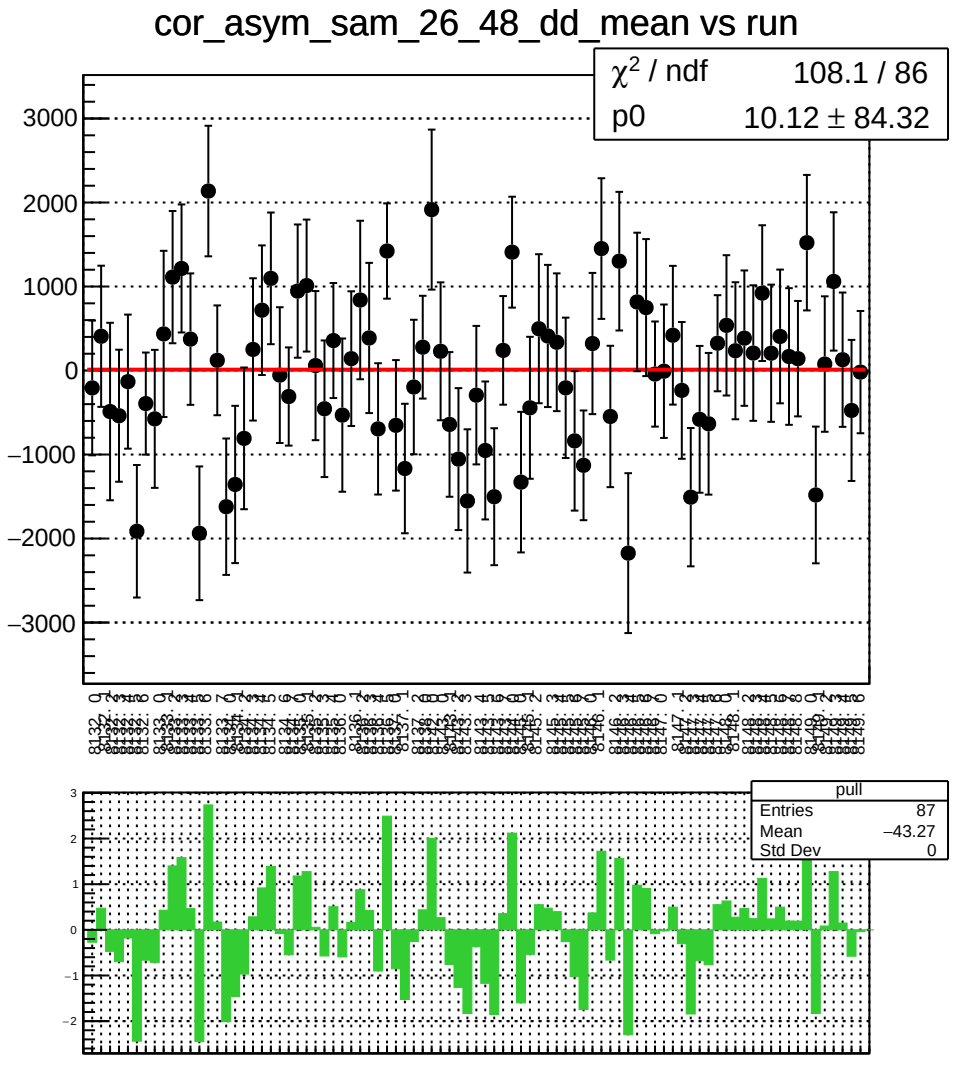

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 108 / 86
p0 10.13 ± 84.32
pull
Entries 87
Mean −43.26
Std Dev 0

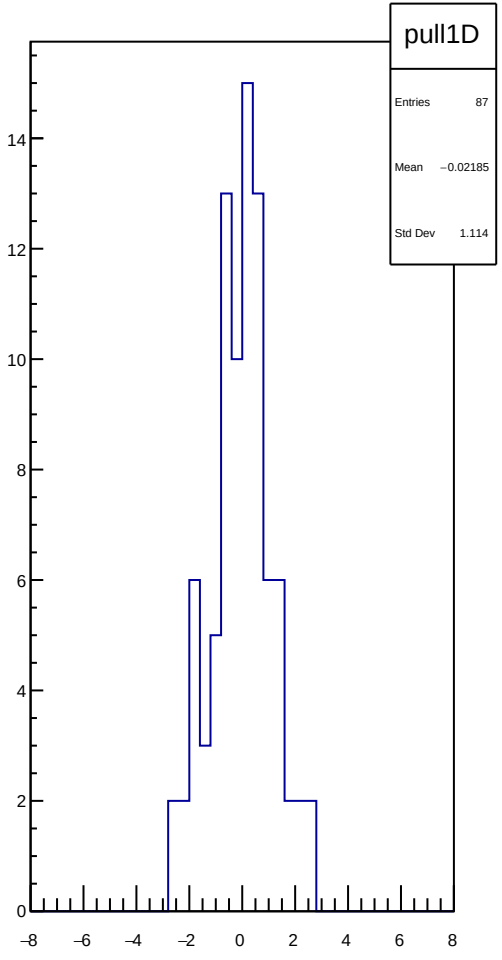

pull1D
Entries 87
Mean −0.02185
Std Dev 1.114

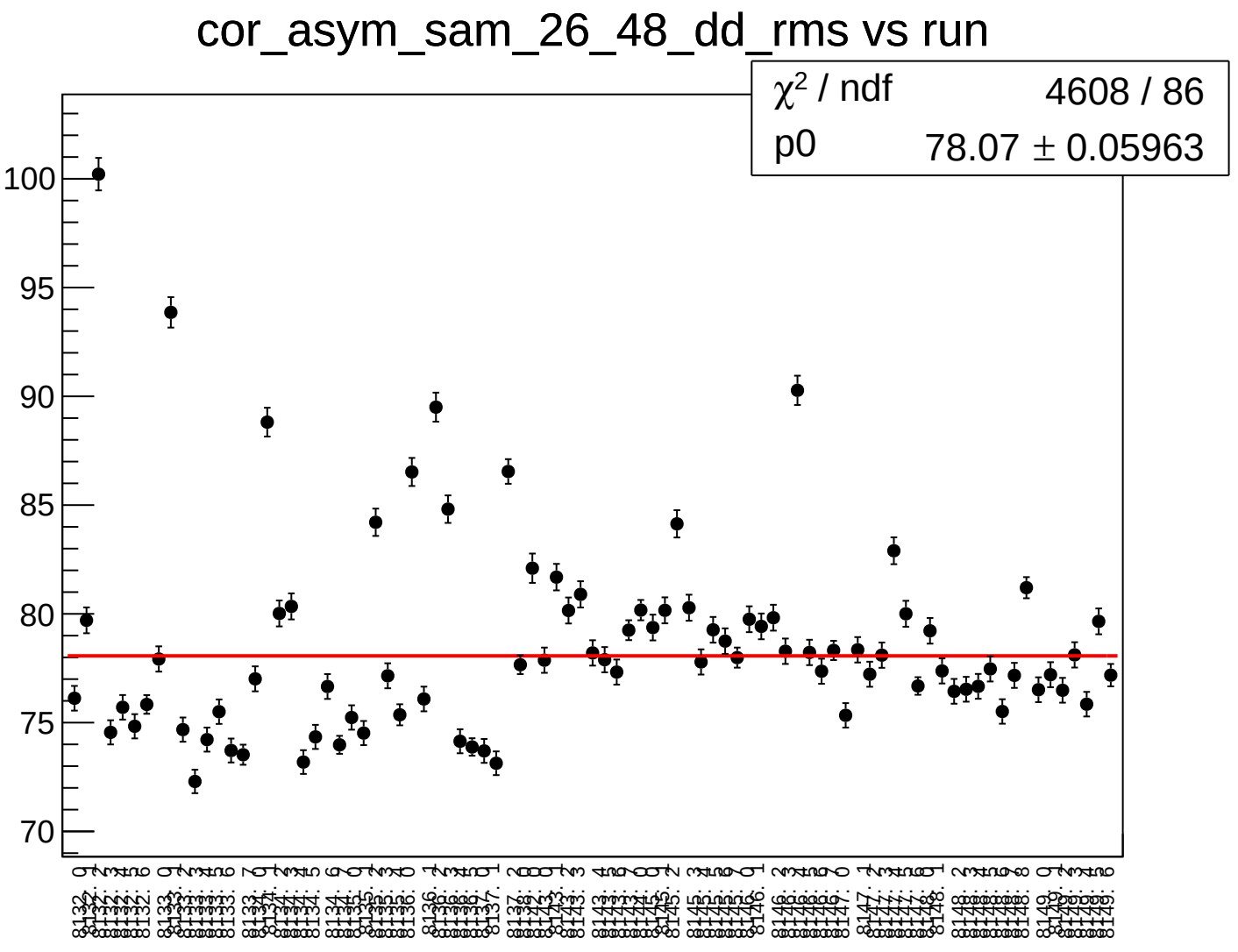

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 4608 / 86
p0 78.07 ± 0.05963
100
95
90
85
80
75
70

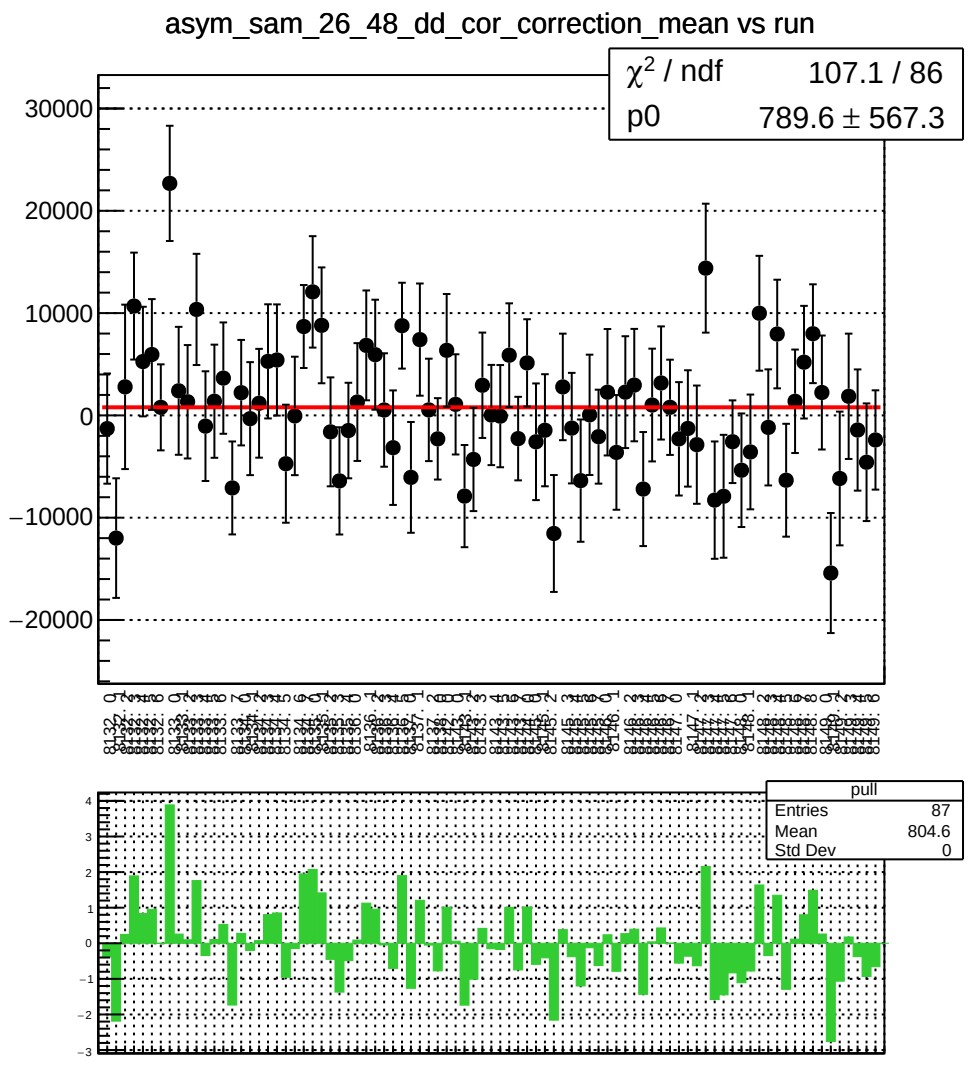

asym_sam_26_48_dd_reg_correction_mean vs run
χ² / ndf 107.1 / 86
p0 789.6 ± 567.3
30000
20000
10000
0
−10000
−20000
pull
Entries 87
Mean 804.6
Std Dev 0
4
3
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean −0.009225
Std Dev 1.11
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

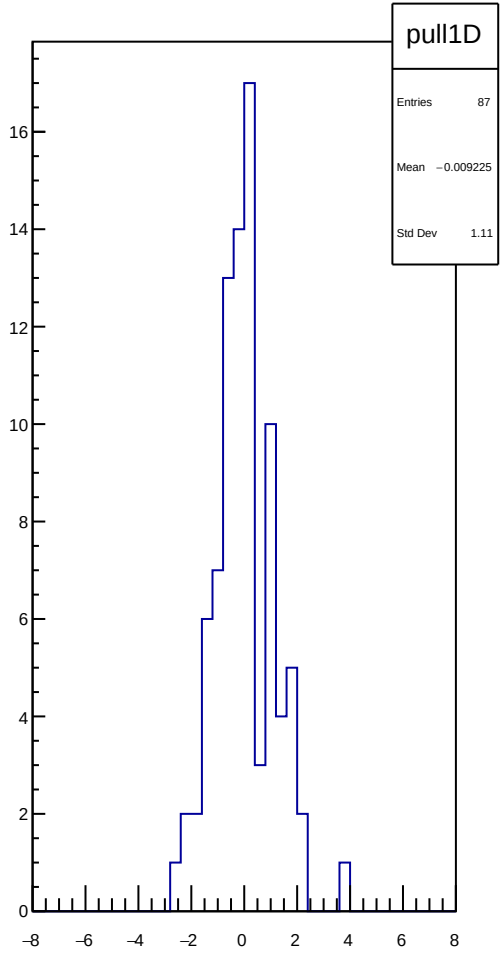

asym_sam_26_48_dd_reg_correction_rms vs run
χ² / ndf 6873 / 86
p0 524.9 ± 0.4012
750
700
650
600
550
500
450


cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 108.1 / 86
p0 10.12 ± 84.32
pull
Entries 87
Mean −43.27
Std Dev 0


pull1D
Entries 87
Mean −0.02185
Std Dev 1.114


cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 4608 / 86
p0 78.07 ± 0.05963
100
95
90
85
80
75
70


asym_sam_26_48_dd_cor_correction_mean vs run
χ² / ndf 107.1 / 86
p0 789.6 ± 567.3
30000
20000
10000
0
−10000
−20000
pull
Entries 87
Mean 804.6
Std Dev 0
4
3
2
1
0
−1
−2
−3


pull1D
Entries 87
Mean −0.009225
Std Dev 1.11
16
14
12
10
8
6
4
2
0
−8
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−4
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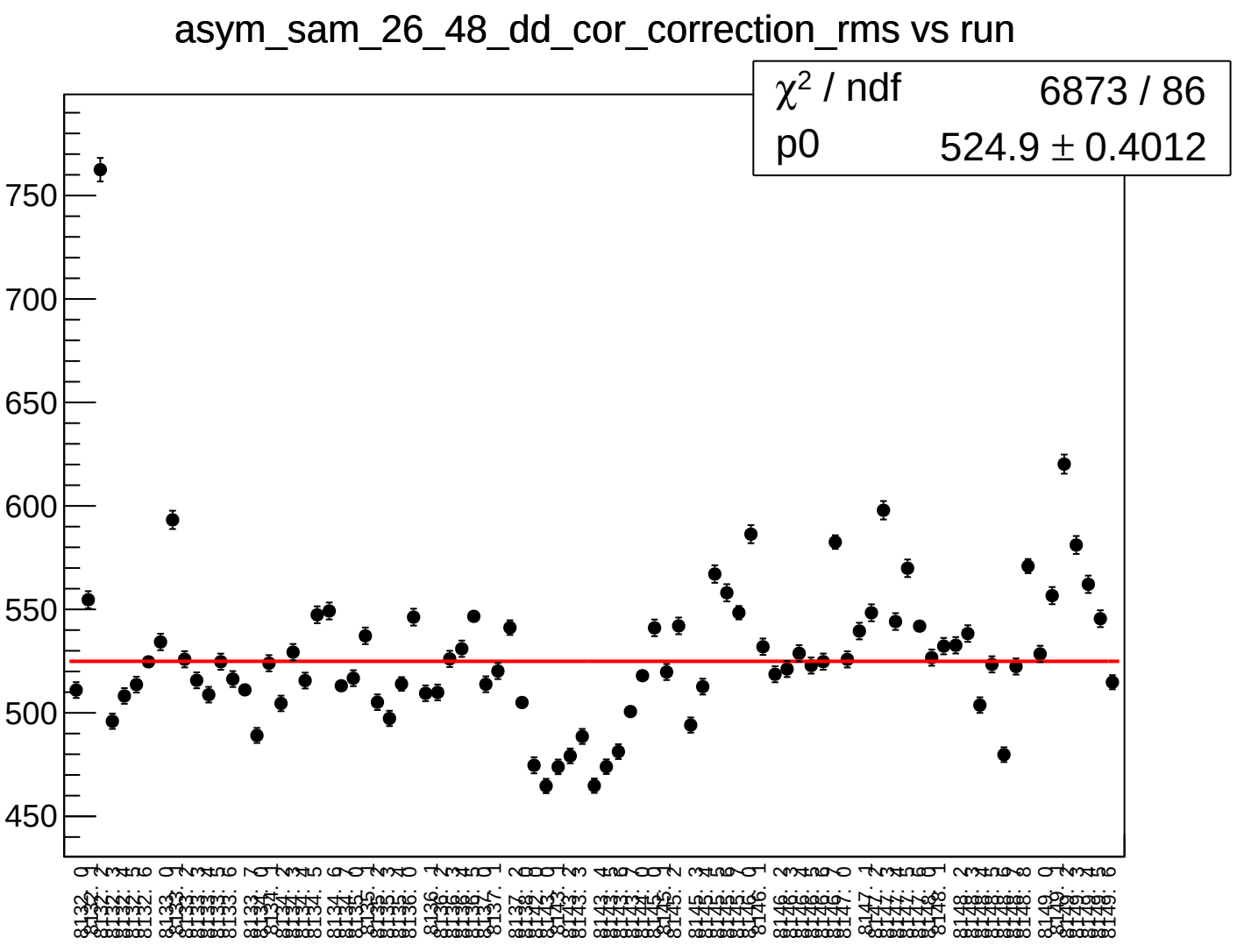
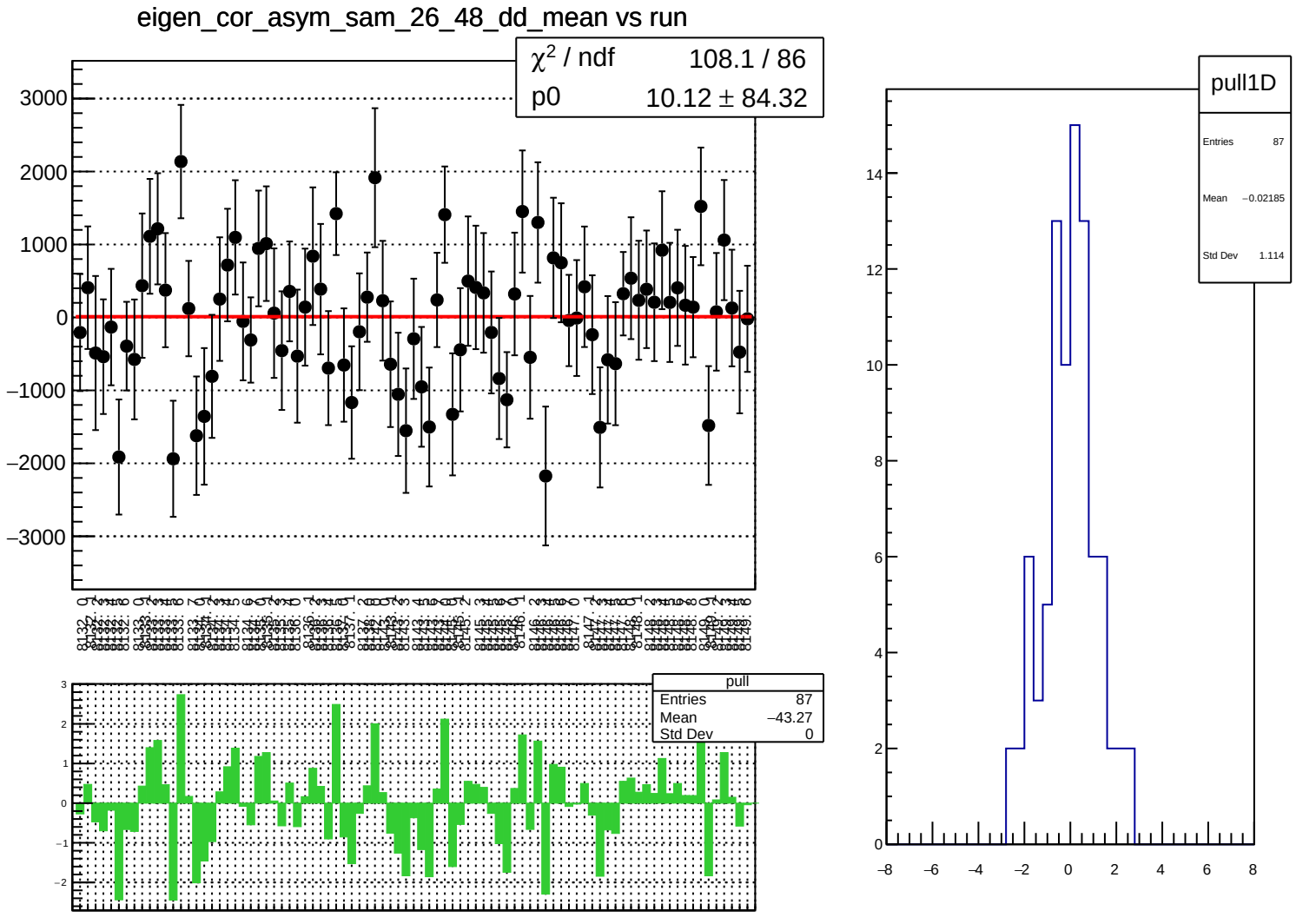
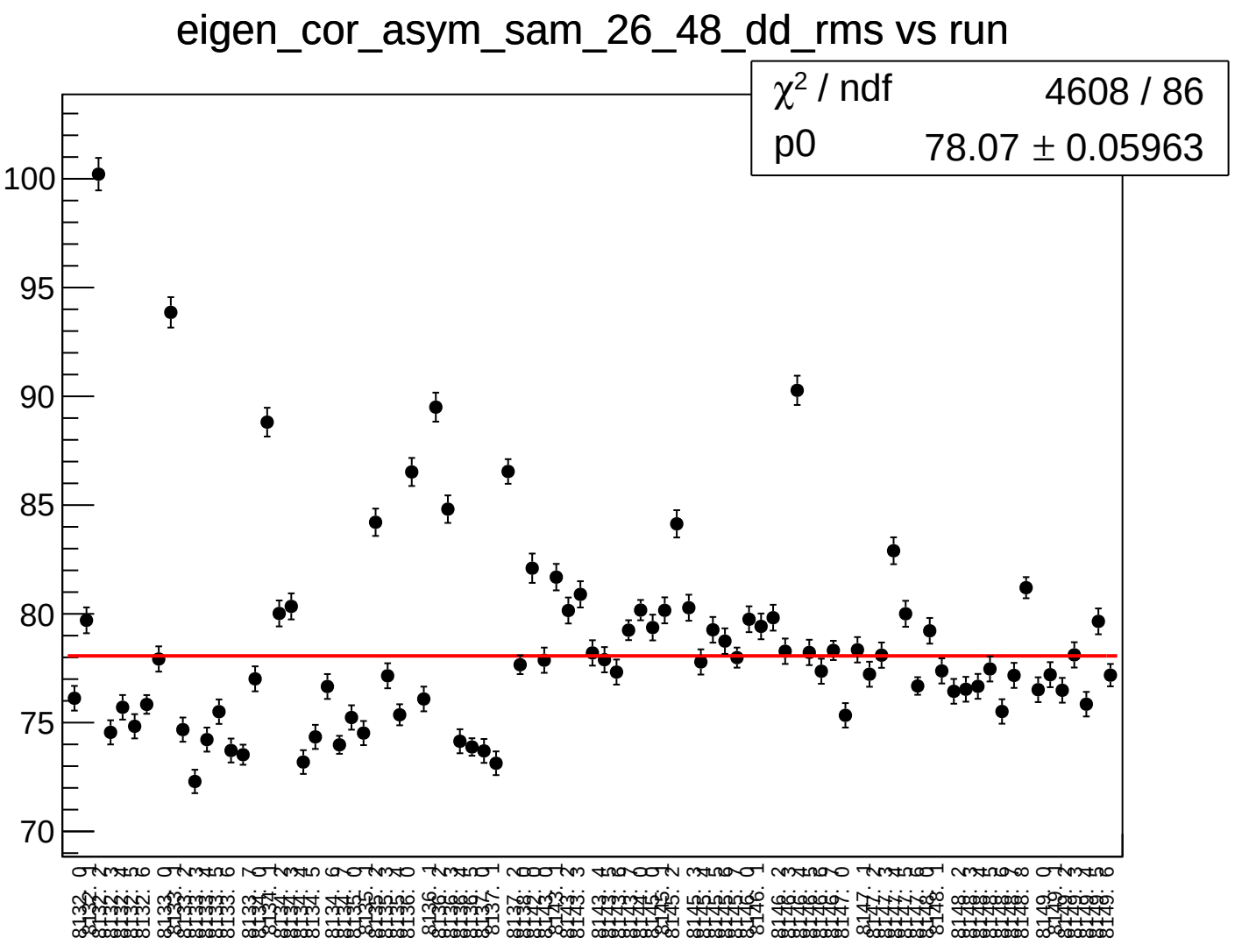
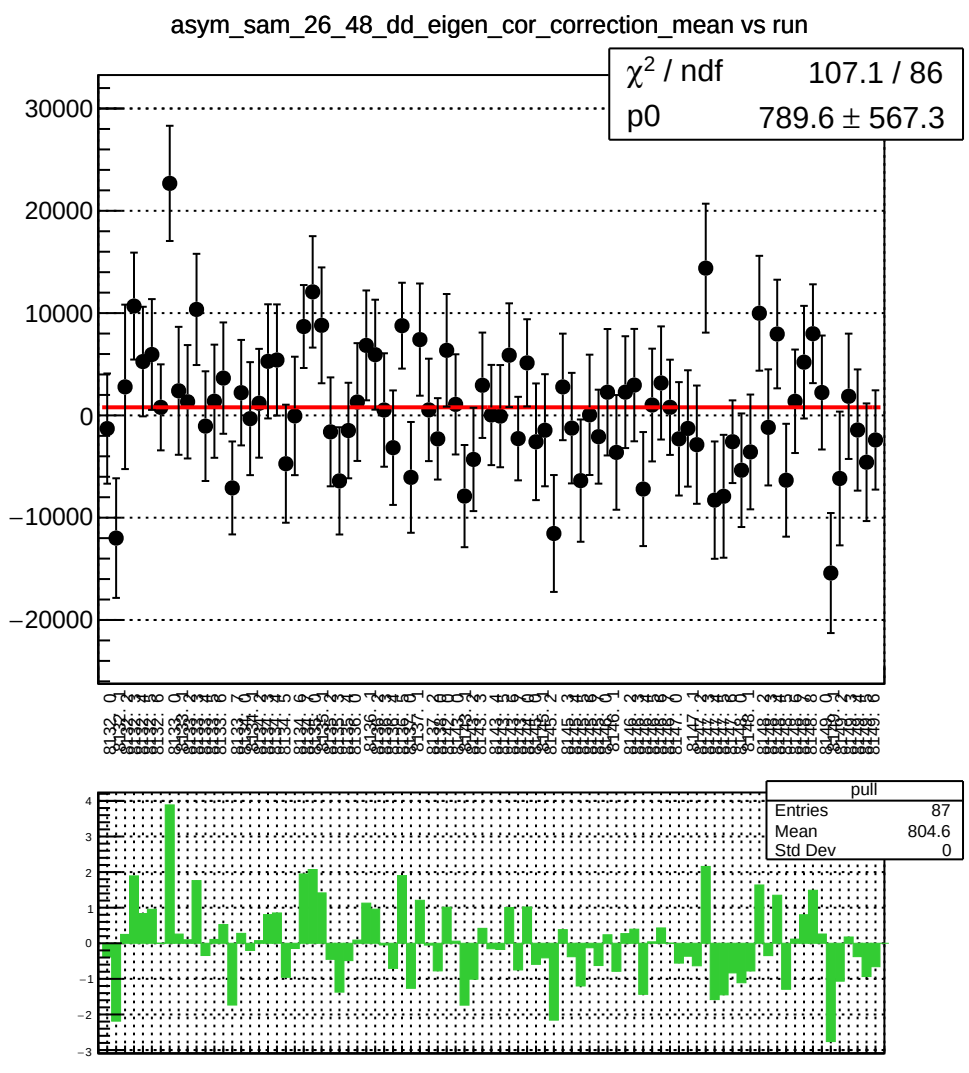
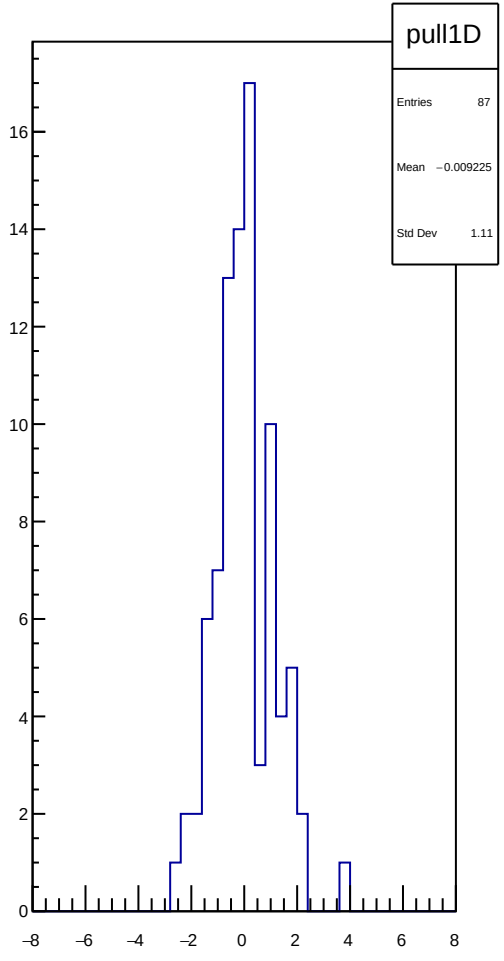
0
2
4
6
8

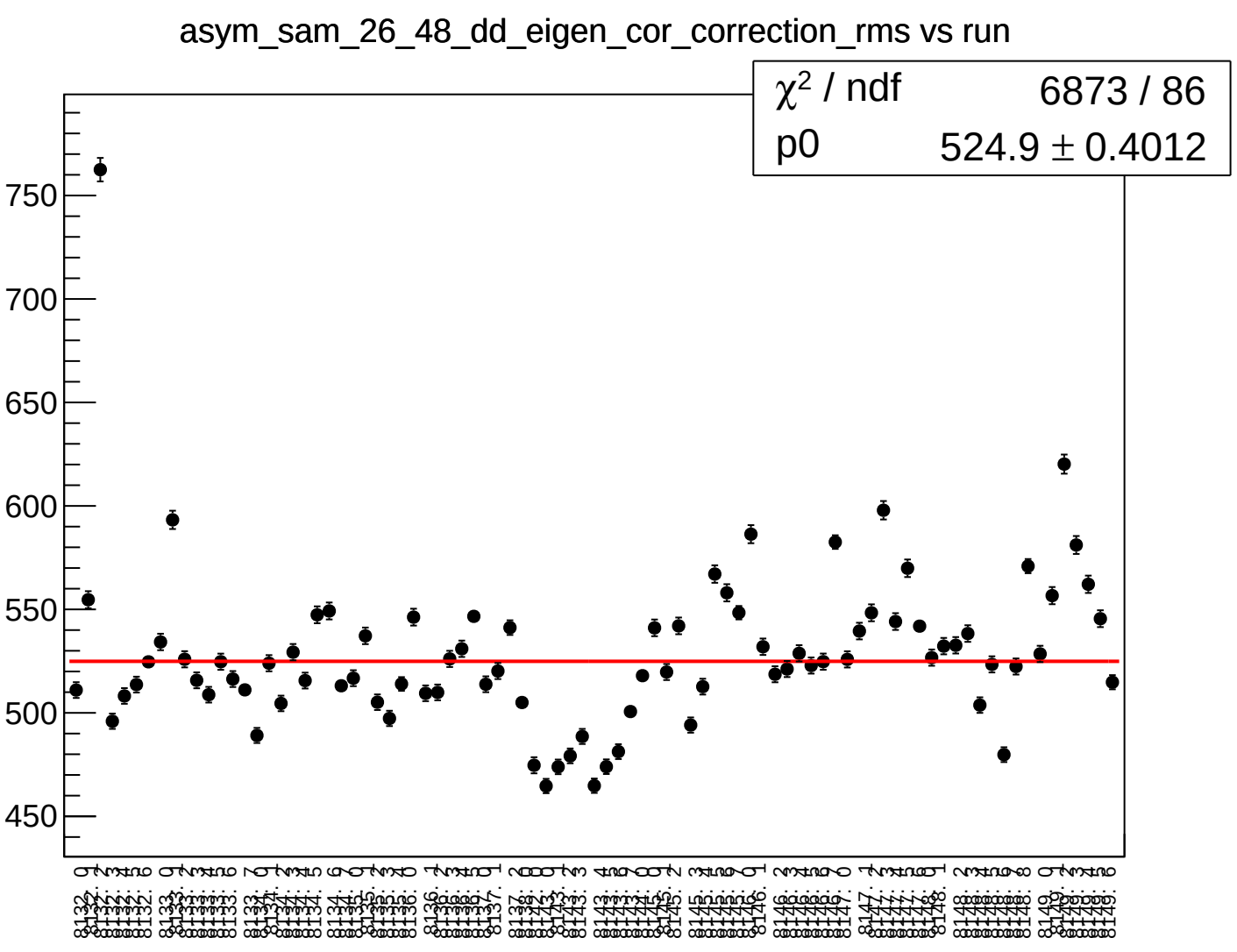

asym_sam_26_48_dd_cor_correction_rms vs run
χ² / ndf 6873 / 86
p0 524.9 ± 0.4012
750
700
650
600
550
500
450

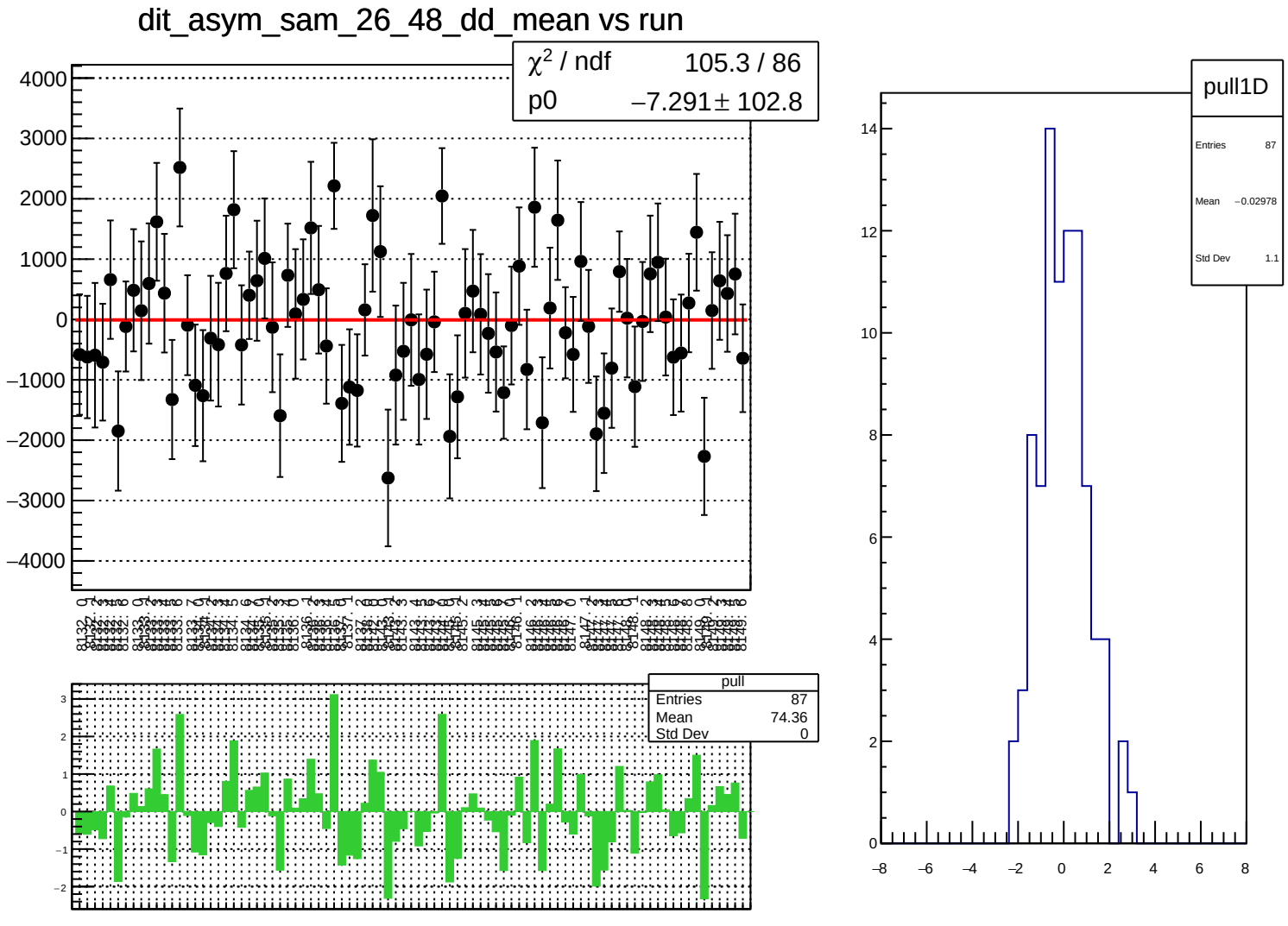

eigen_cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 108.1 / 86
p0 10.12 ± 84.32
pull
Entries 87
Mean −43.27
Std Dev 0
pull1D
Entries 87
Mean −0.02185
Std Dev 1.114

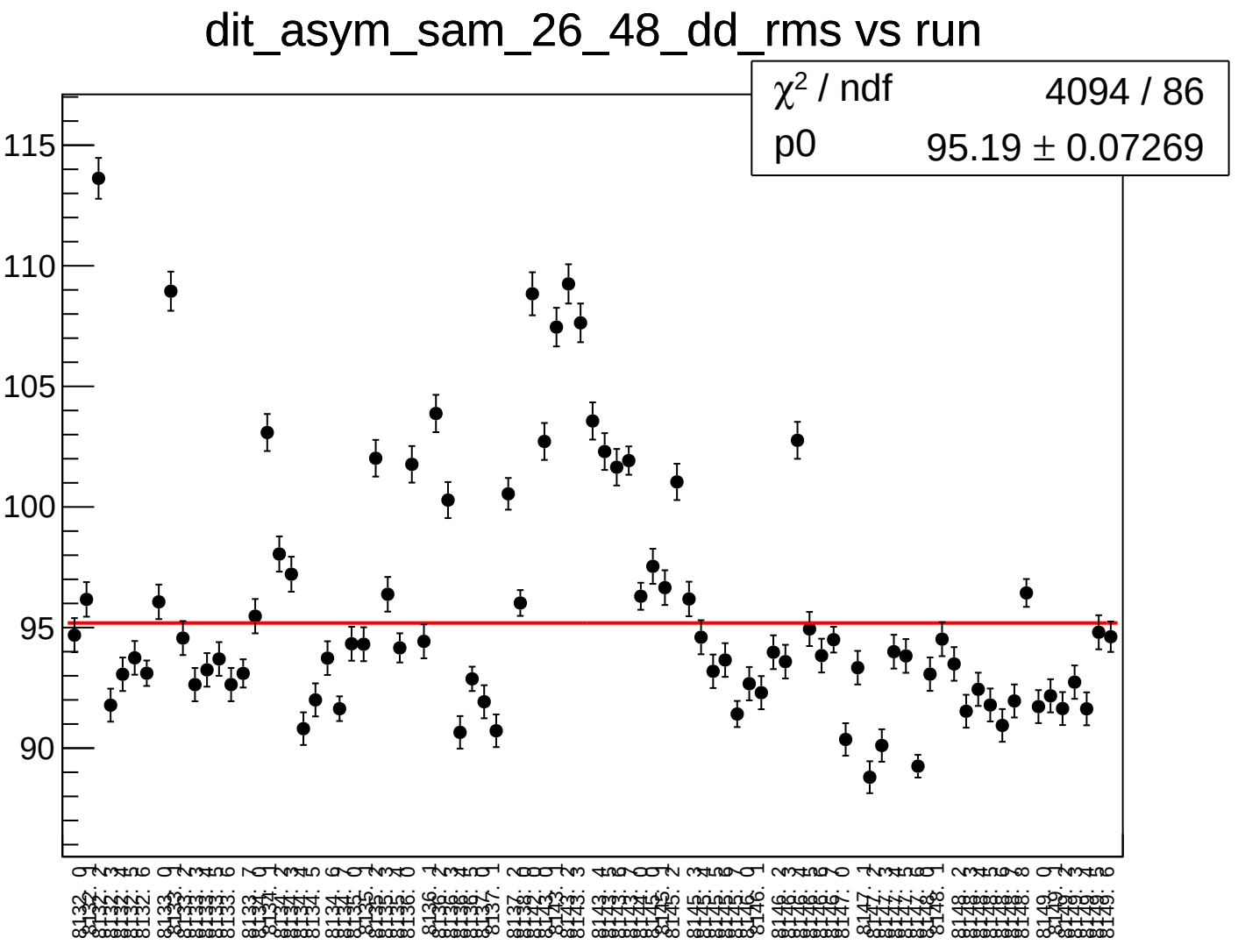

eigen_cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 4608 / 86
p0 78.07 ± 0.05963
100
95
90
85
80
75
70

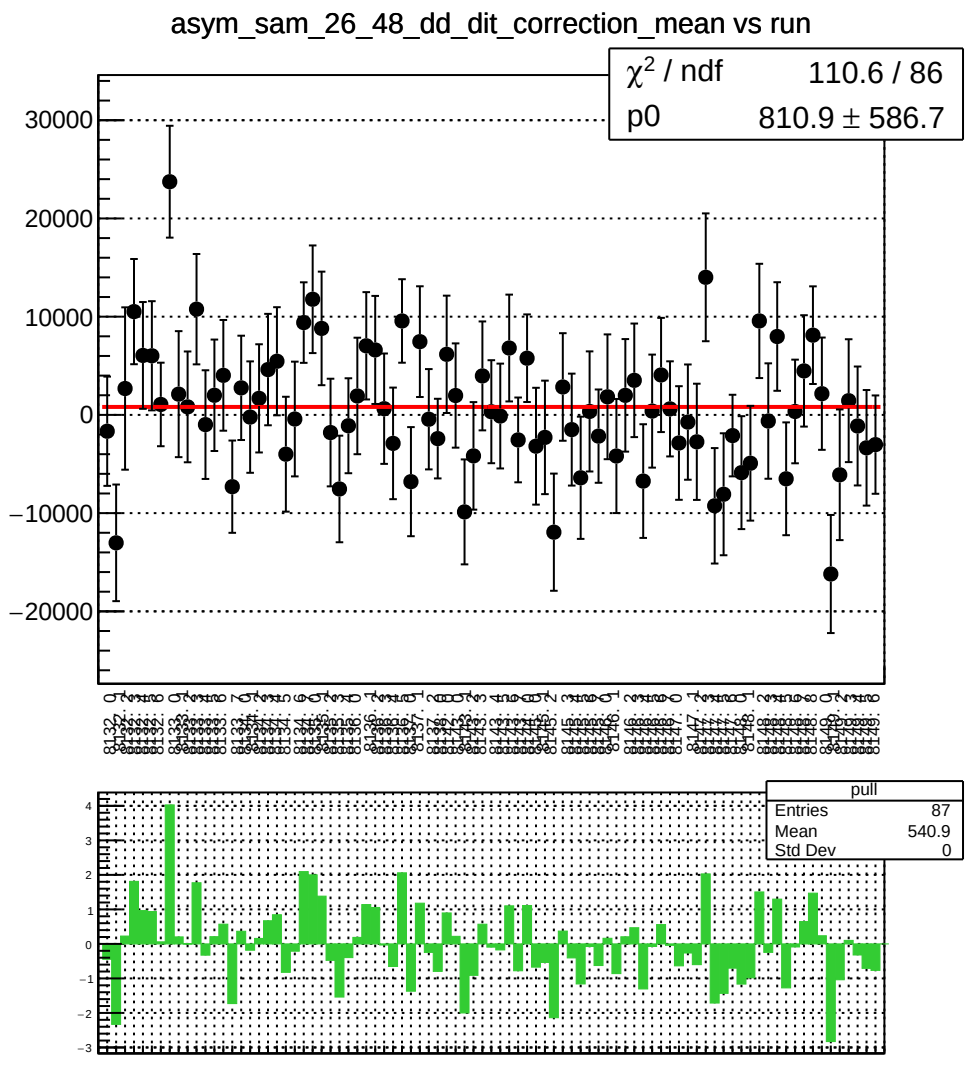

asym_sam_26_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 107.1 / 86
p0 789.6 ± 567.3
30000
20000
10000
0
−10000
−20000
pull
Entries 87
Mean 804.6
Std Dev 0
4
3
2
1
0
−1
−2
−3

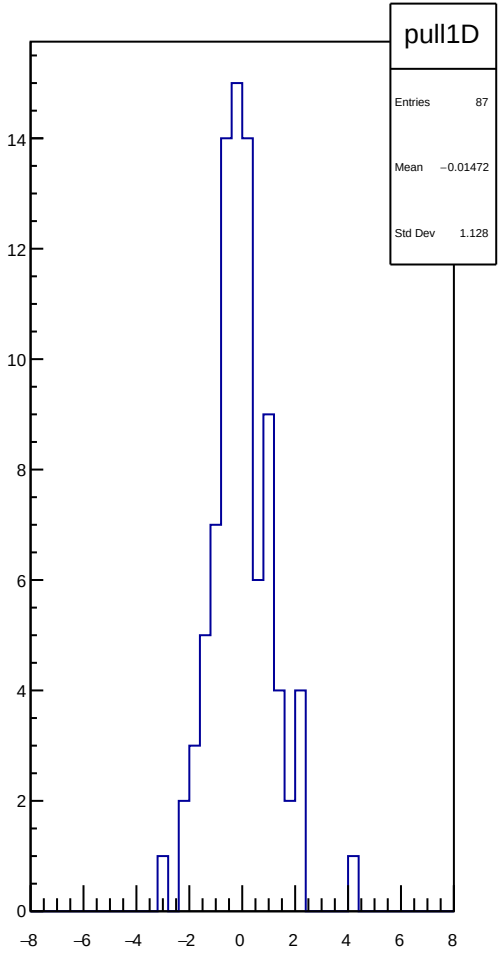

pull1D
Entries 87
Mean −0.009225
Std Dev 1.11
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

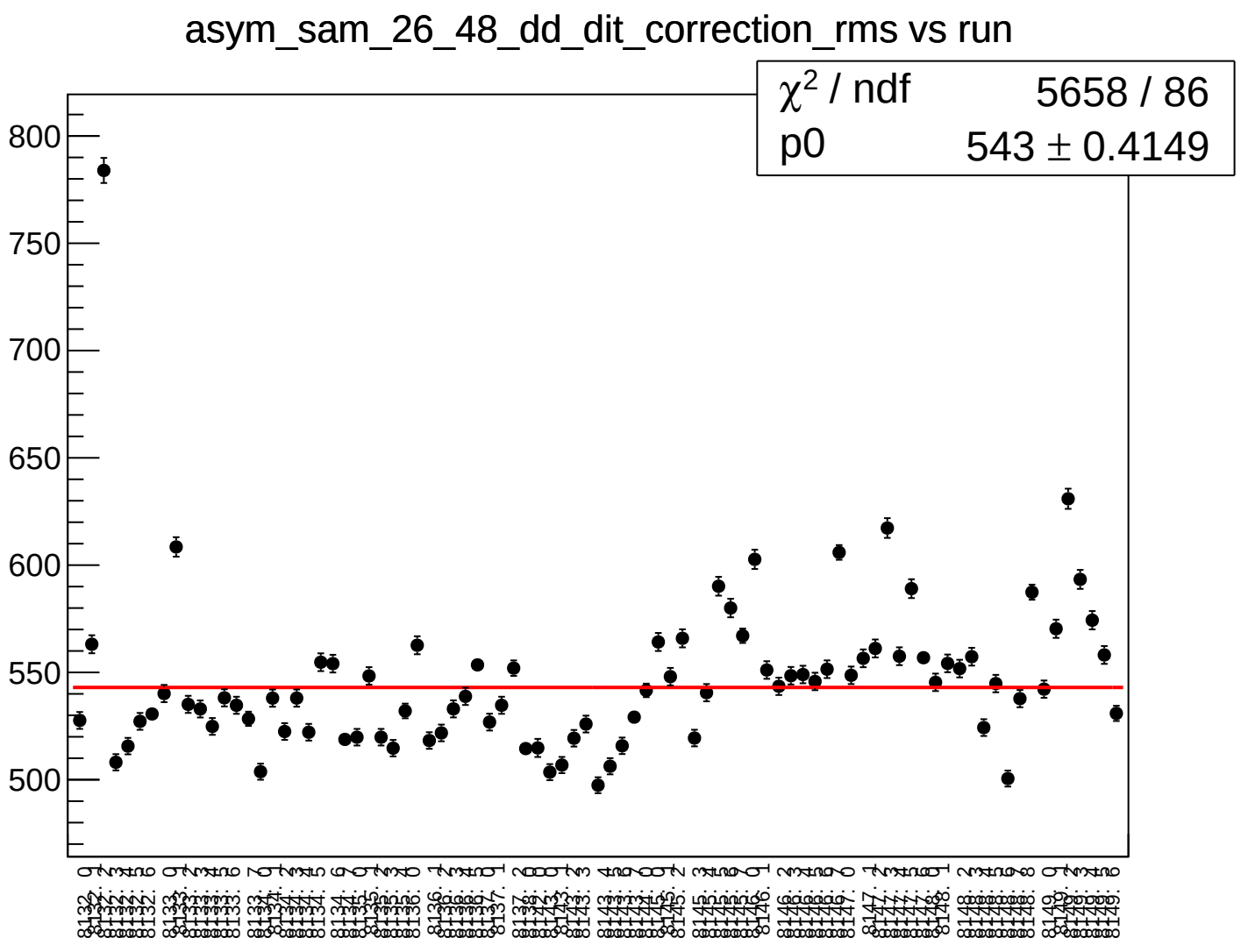

asym_sam_26_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 6873 / 86
p0 524.9 ± 0.4012
750
700
650
600
550
500
450

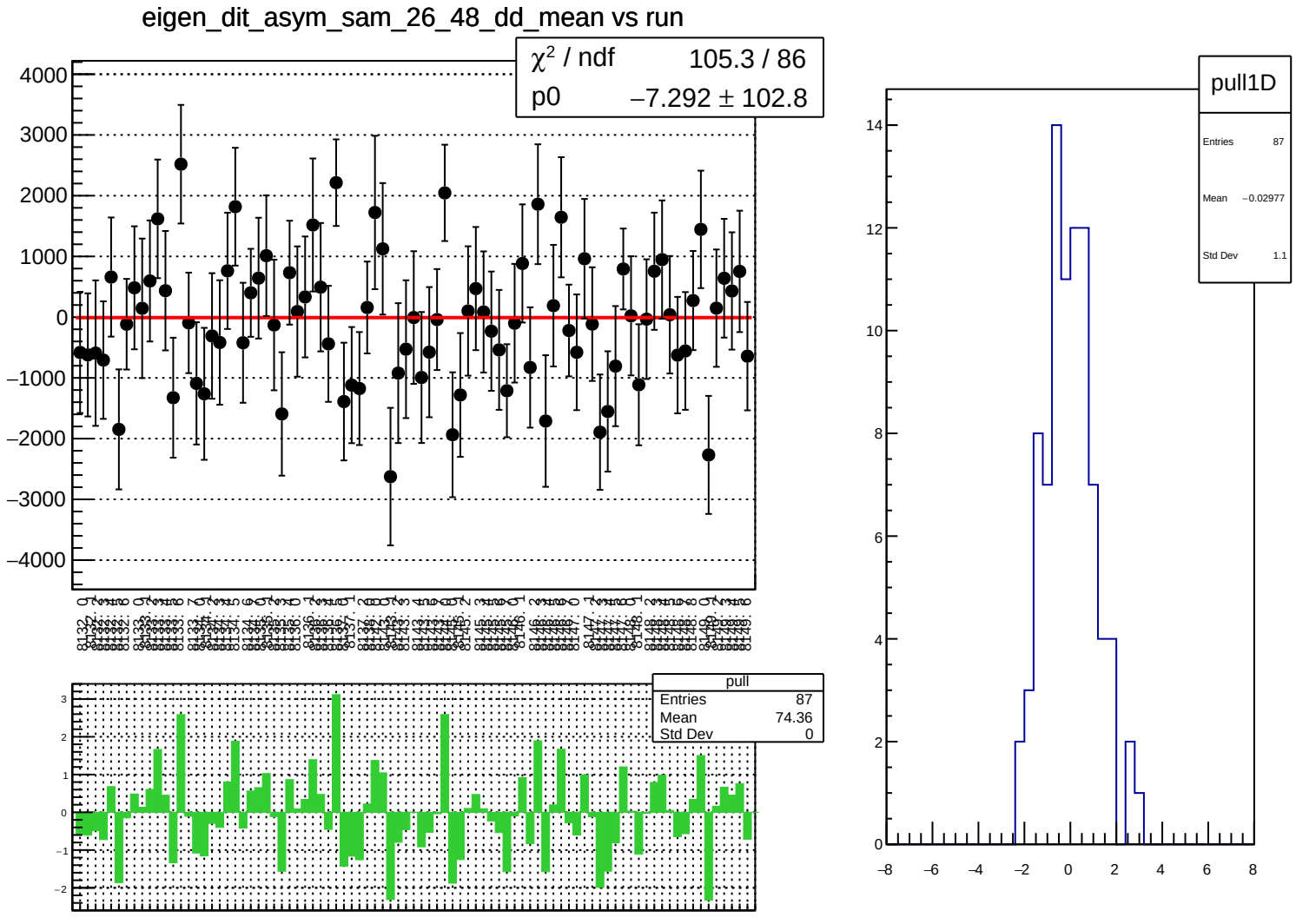

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 105.3 / 86
p0 −7.291 ± 102.8
pull
Entries 87
Mean 74.36
Std Dev 0
pull1D
Entries 87
Mean −0.02978
Std Dev 1.1

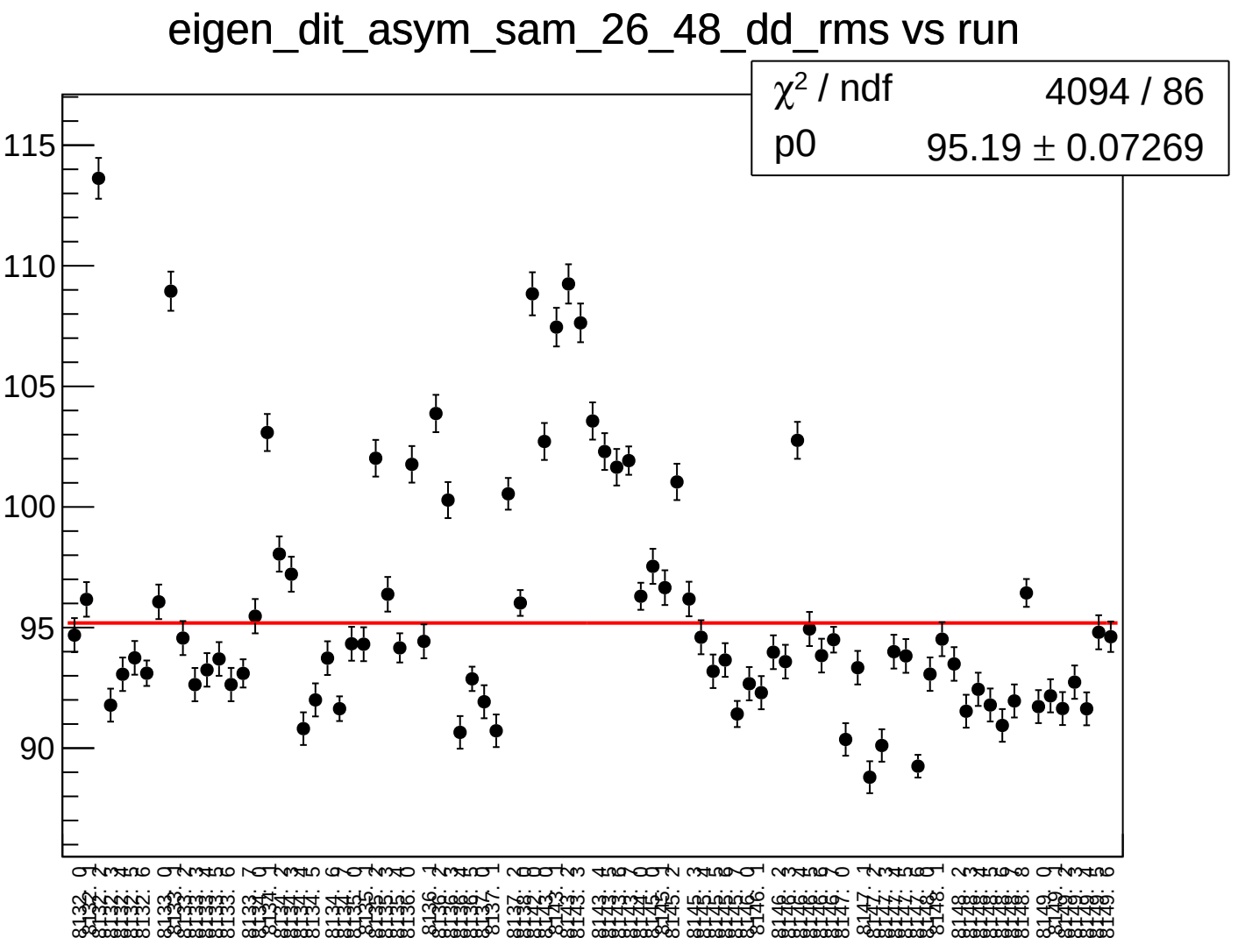

dit_asym_sam_26_48_dd_rms vs run
χ^2 / ndf 4094 / 86
p0 95.19 ± 0.07269
115
110
105
100
95
90

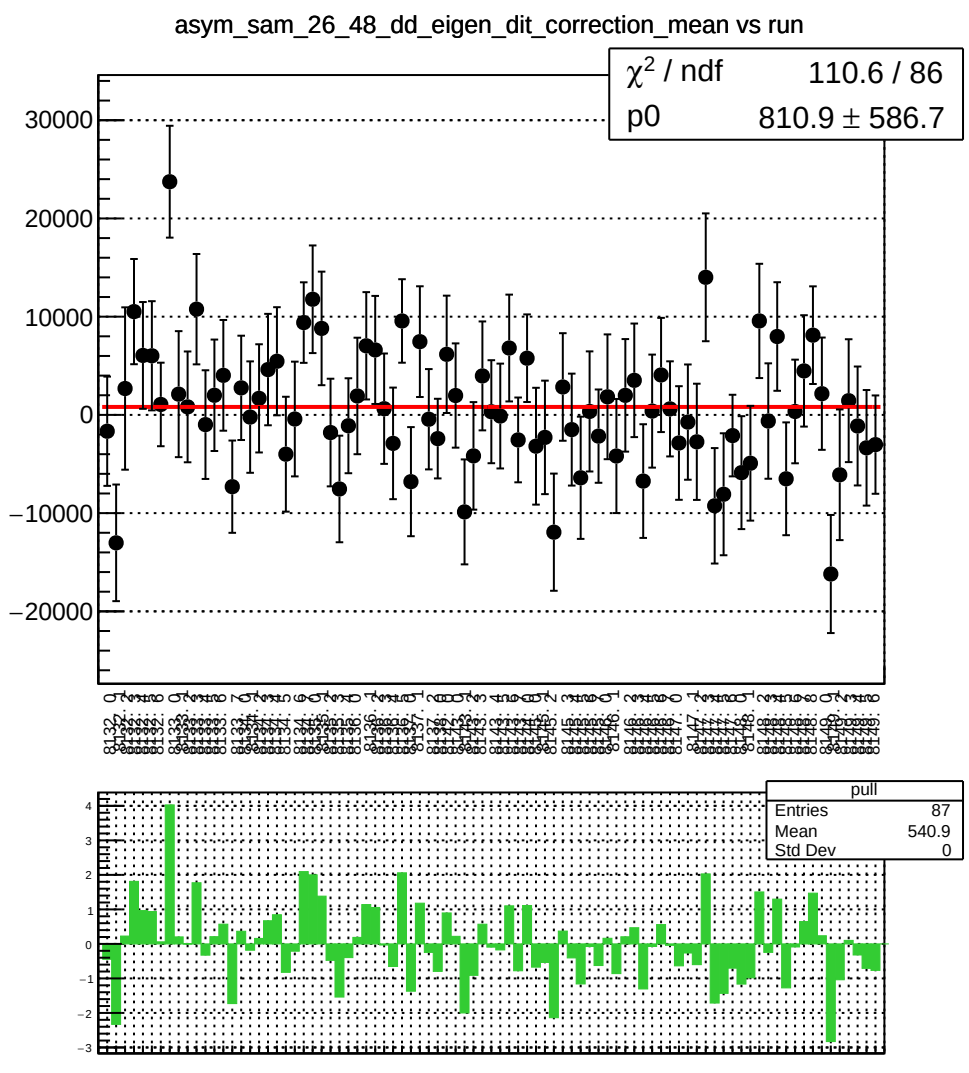

asym_sam_26_48_dd_dit_correction_mean vs run
χ² / ndf 110.6 / 86
p0 810.9 ± 586.7
30000
20000
10000
0
−10000
−20000
pull
Entries 87
Mean 540.9
Std Dev 0
4
3
2
1
0
−1
−2
−3

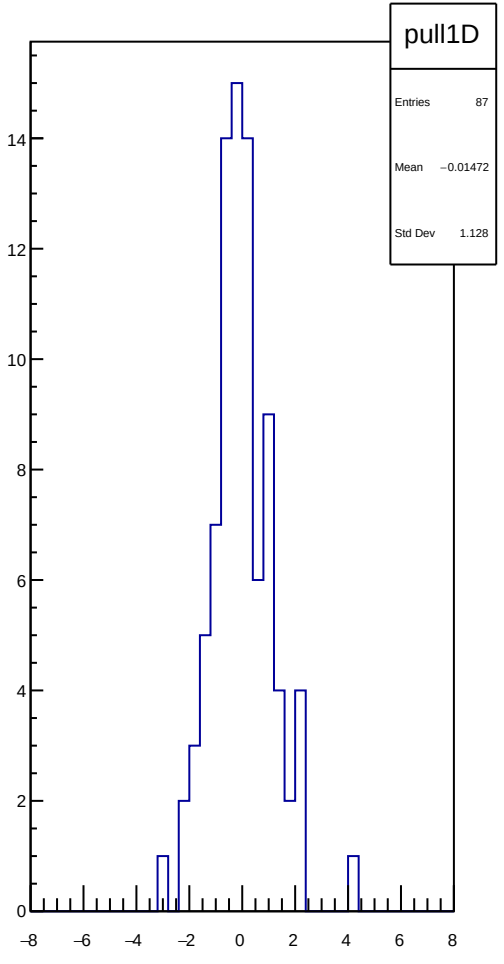

pull1D
Entries 87
Mean −0.01472
Std Dev 1.128
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

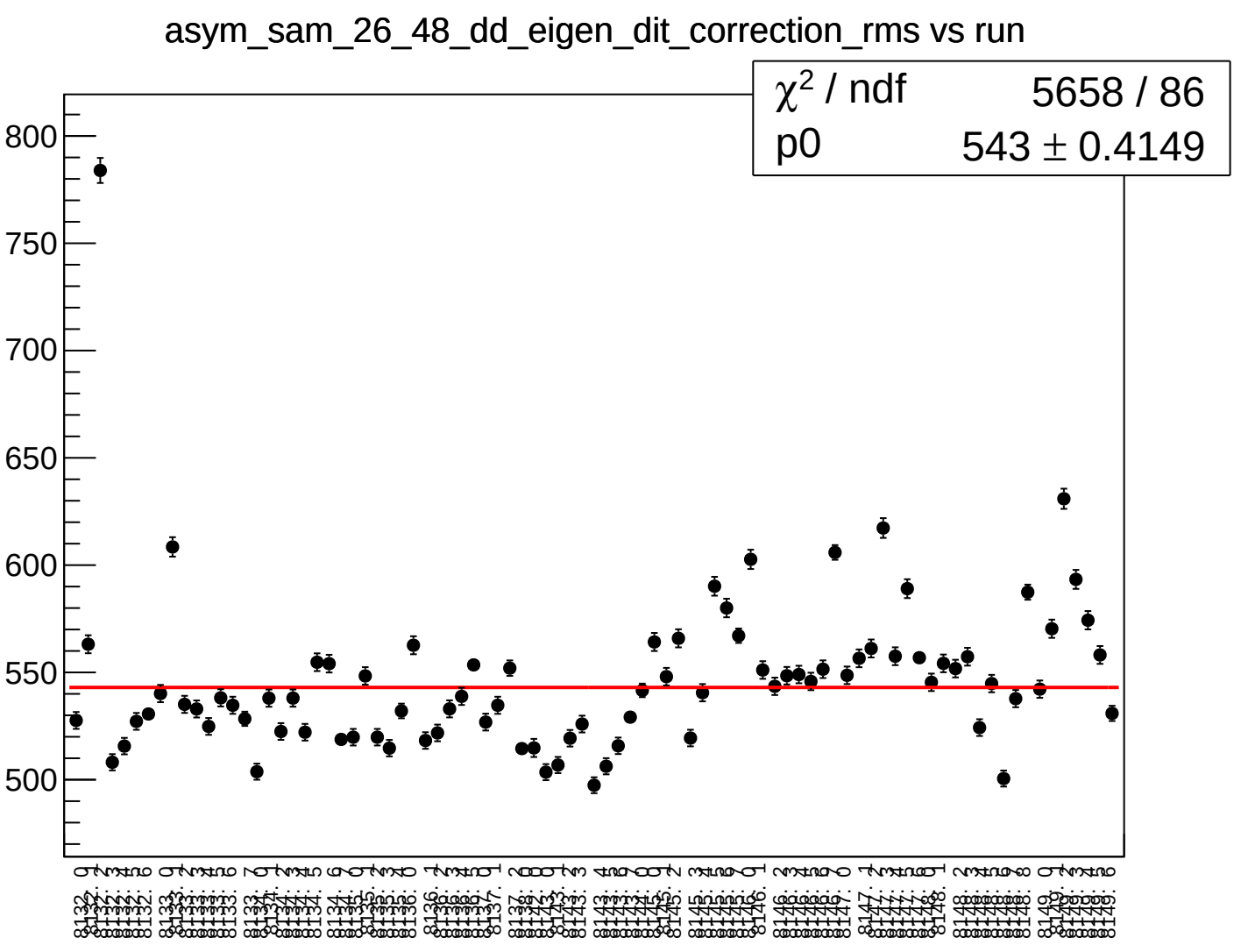

asym_sam_26_48_dd_dit_correction_rms vs run
χ² / ndf 5658 / 86
p0 543 ± 0.4149
800
750
700
650
600
550
500

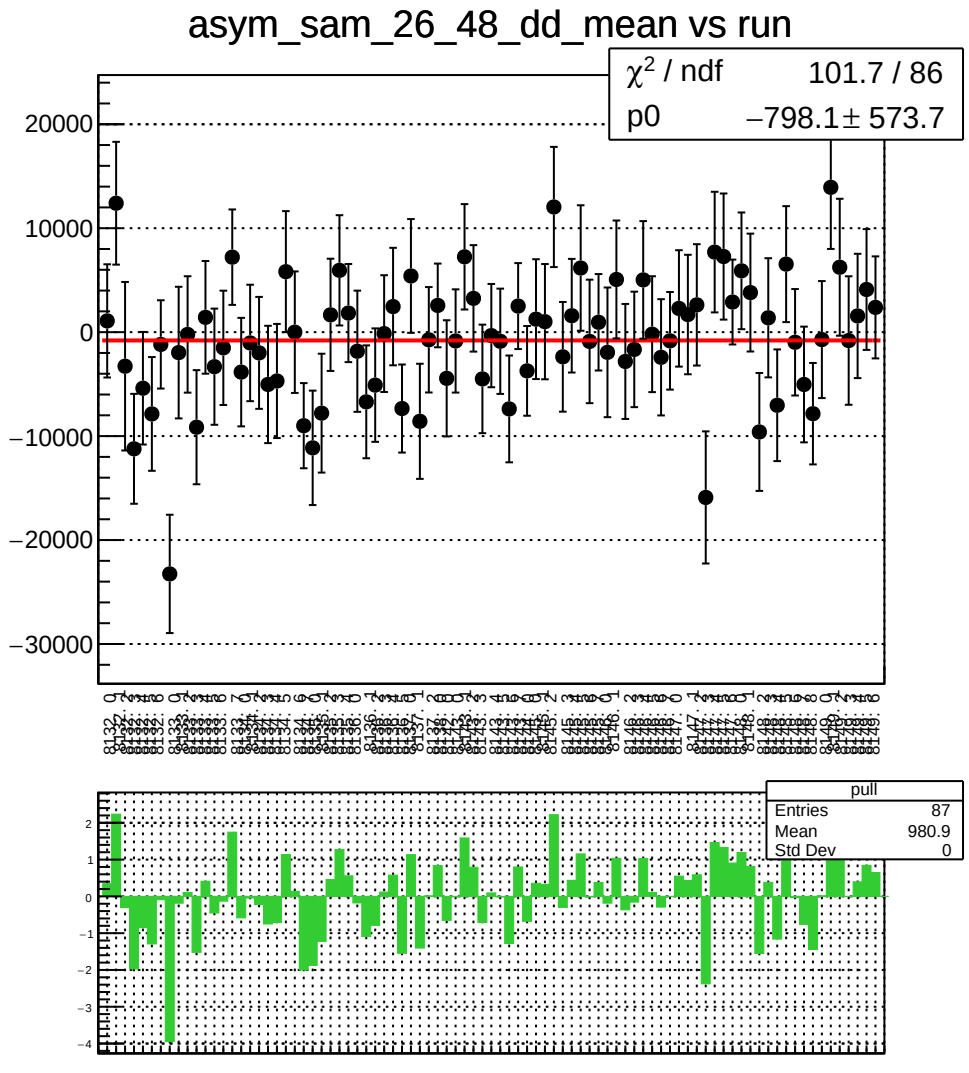

eigen_dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 105.3 / 86
p0 −7.292 ± 102.8
pull
Entries 87
Mean 74.36
Std Dev 0
pull1D
Entries 87
Mean −0.02977
Std Dev 1.1

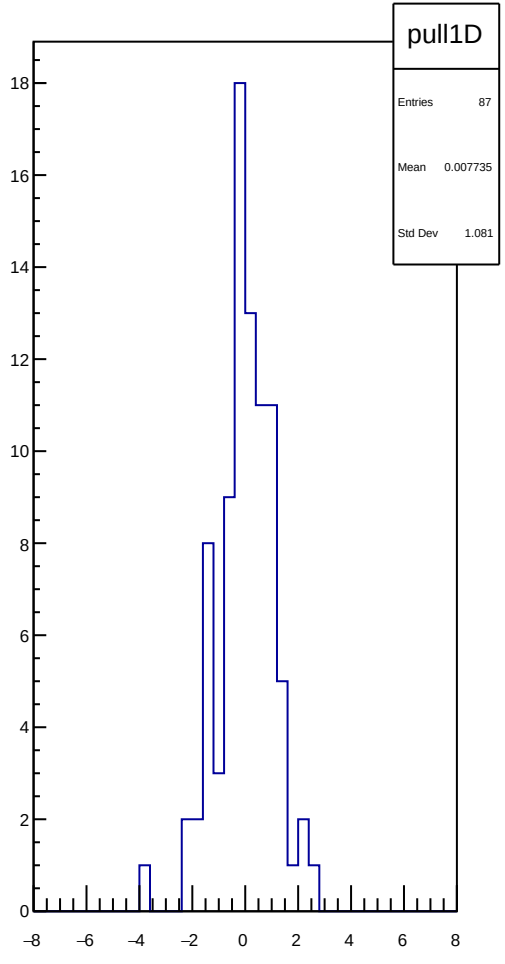

eigen_dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 4094 / 86
p0 95.19 ± 0.07269
115
110
105
100
95
90


asym_sam_26_48_dd_eigen_dit_correction_mean vs run
χ^2 / ndf 110.6 / 86
p0 810.9 ± 586.7
30000
20000
10000
0
−10000
−20000
pull
Entries 87
Mean 540.9
Std Dev 0
4
3
2
1
0
−1
−2
−3


pull1D
Entries 87
Mean −0.01472
Std Dev 1.128
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_26_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 5658 / 86
p0 543 ± 0.4149
800
750
700
650
600
550
500


asym_sam_26_48_dd_mean vs run
χ² / ndf 101.7 / 86
p0 −798.1 ± 573.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean 980.9
Std Dev 0
2
1
0
−1
−2
−3
−4


pull1D
Entries 87
Mean 0.007735
Std Dev 1.081
18
16
14
12
10
8
6
4
2
0
−8
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−4
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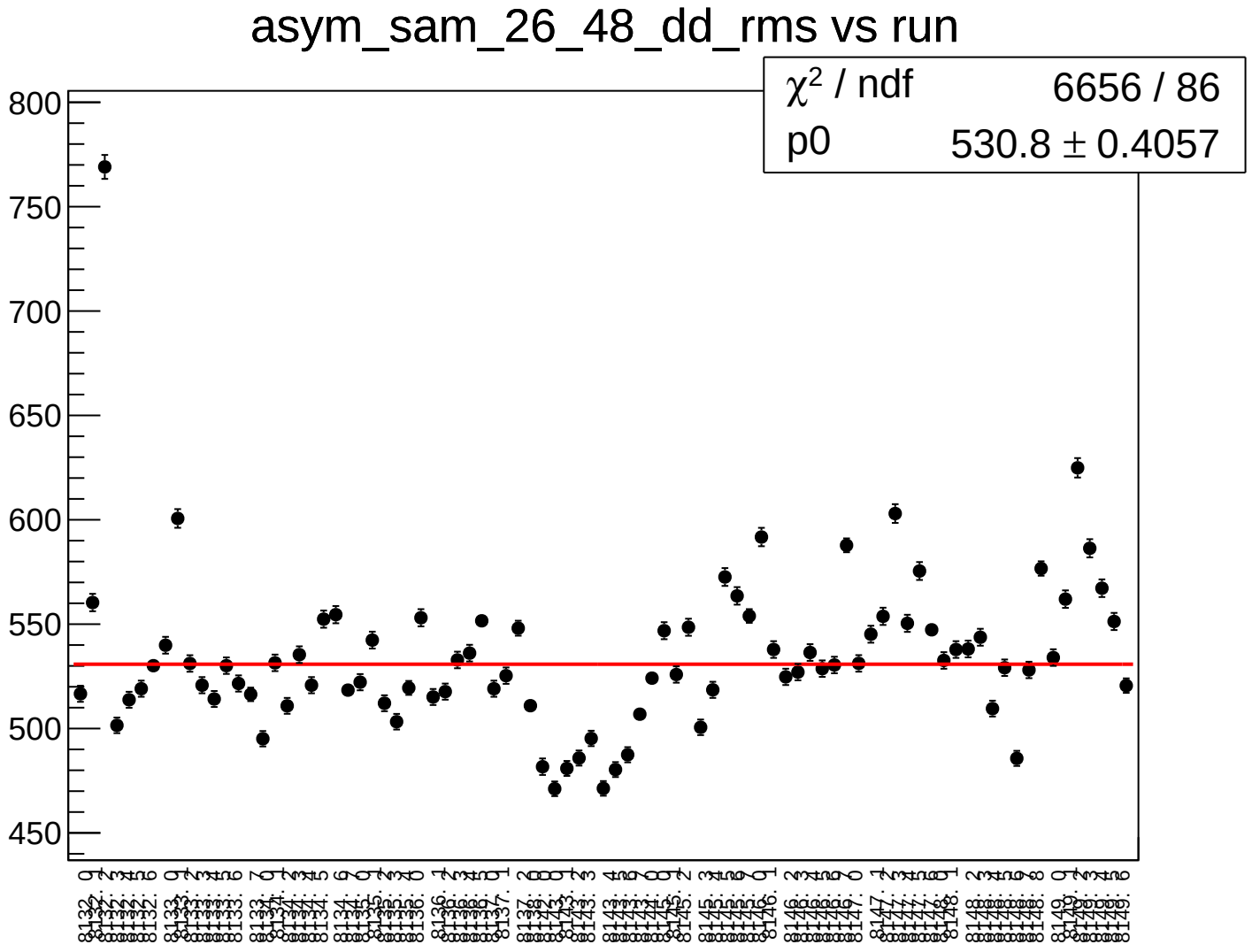
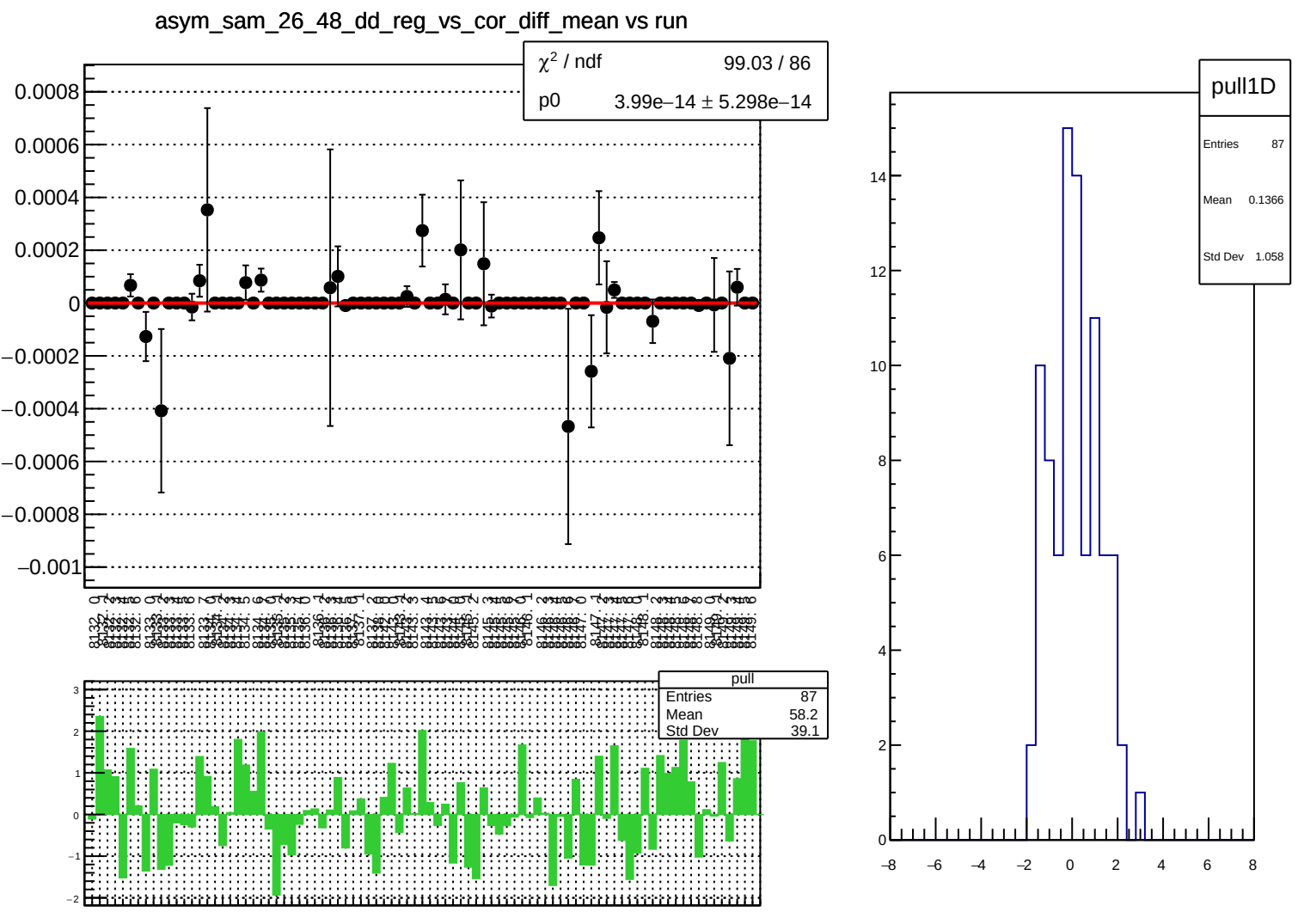
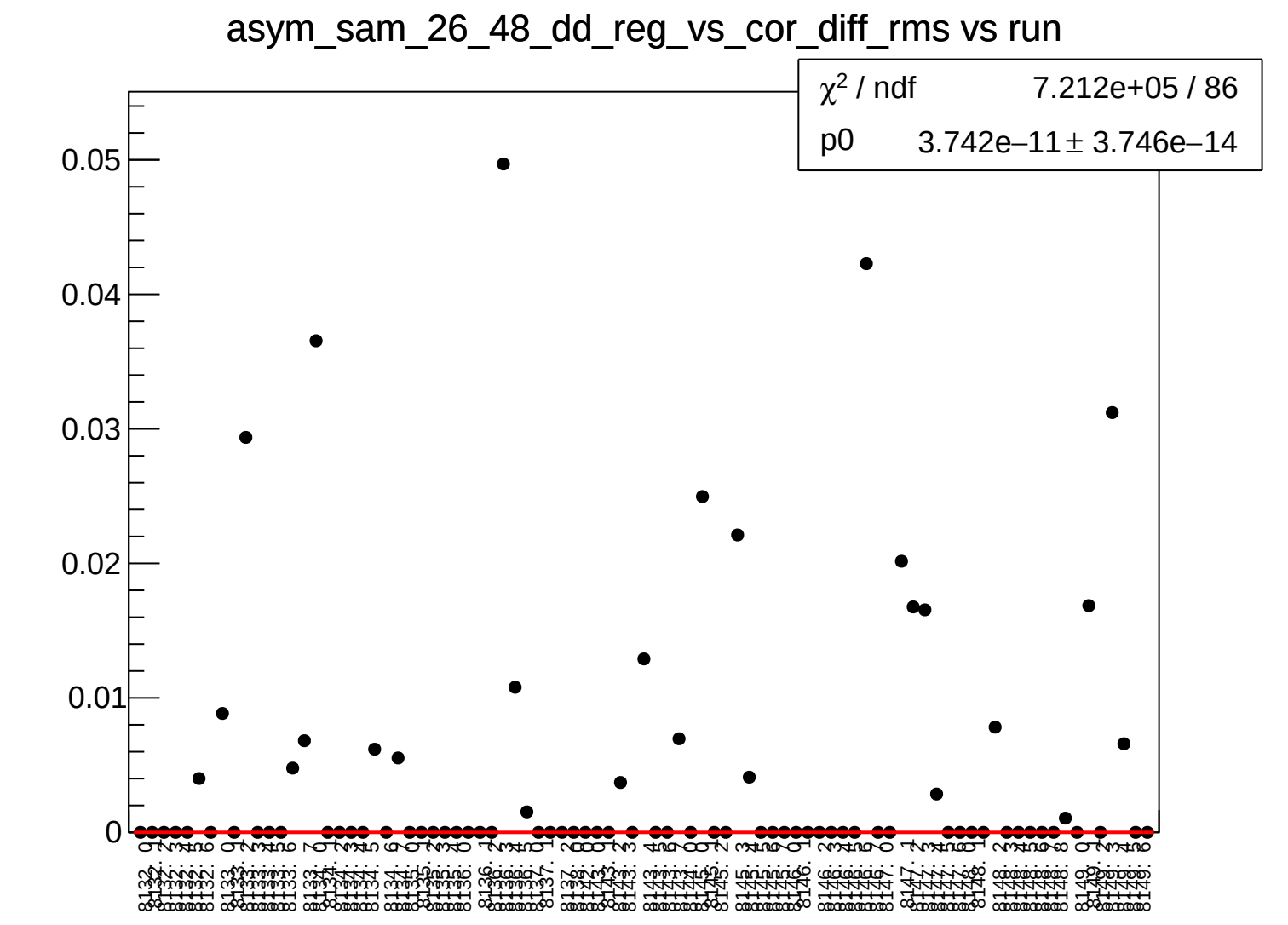
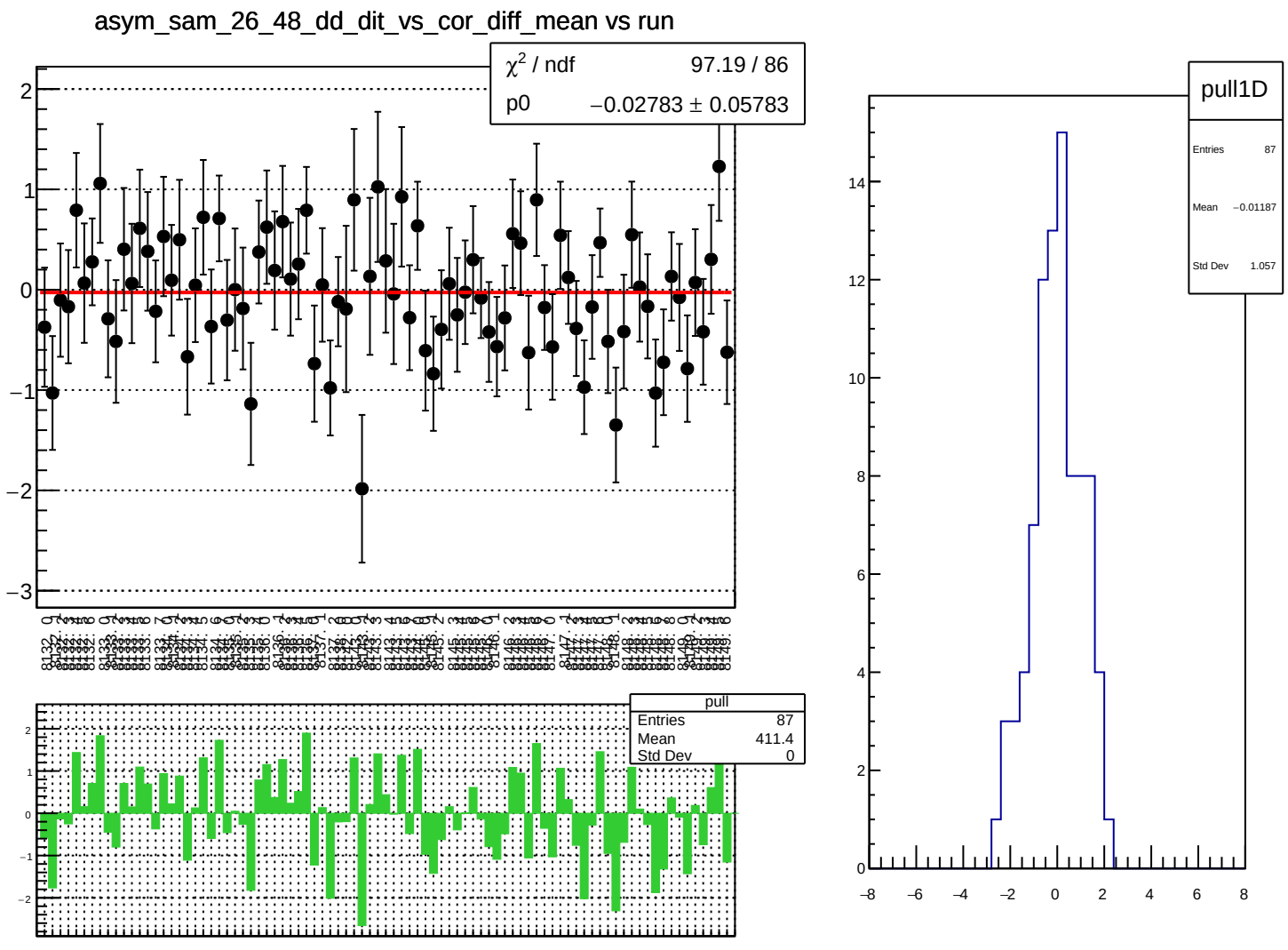
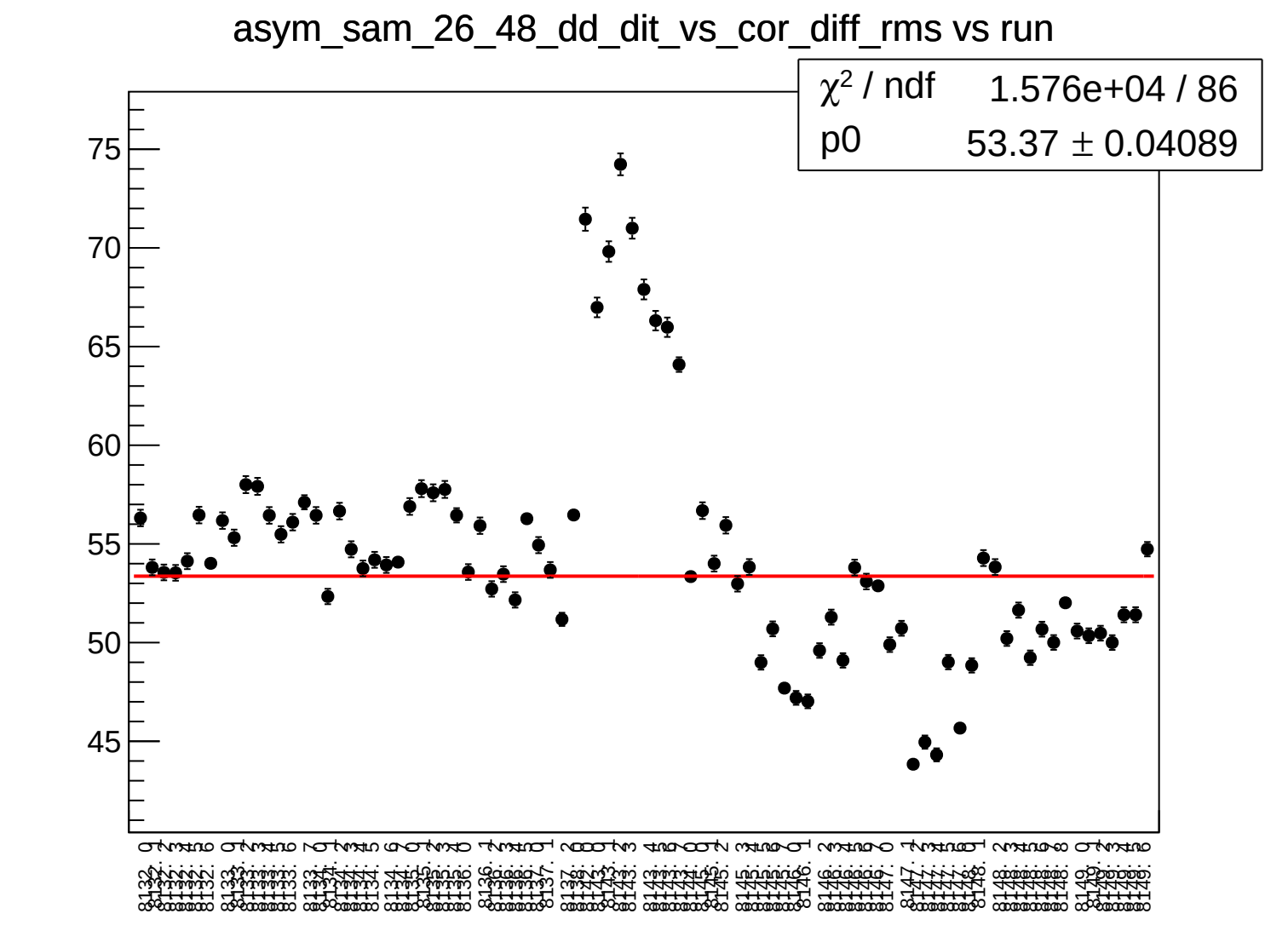
0
2
4
6
8

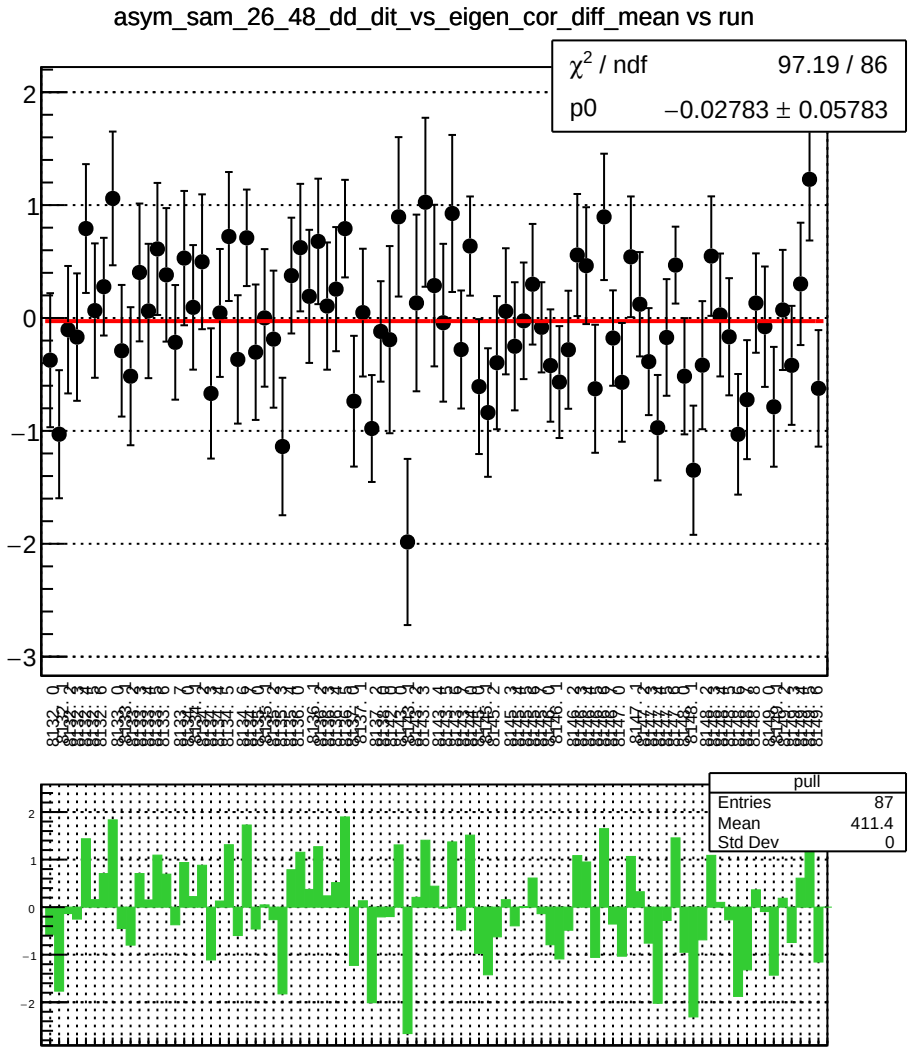

asym_sam_26_48_dd_rms vs run
χ² / ndf 6656 / 86
p0 530.8 ± 0.4057
800
750
700
650
600
550
500
450

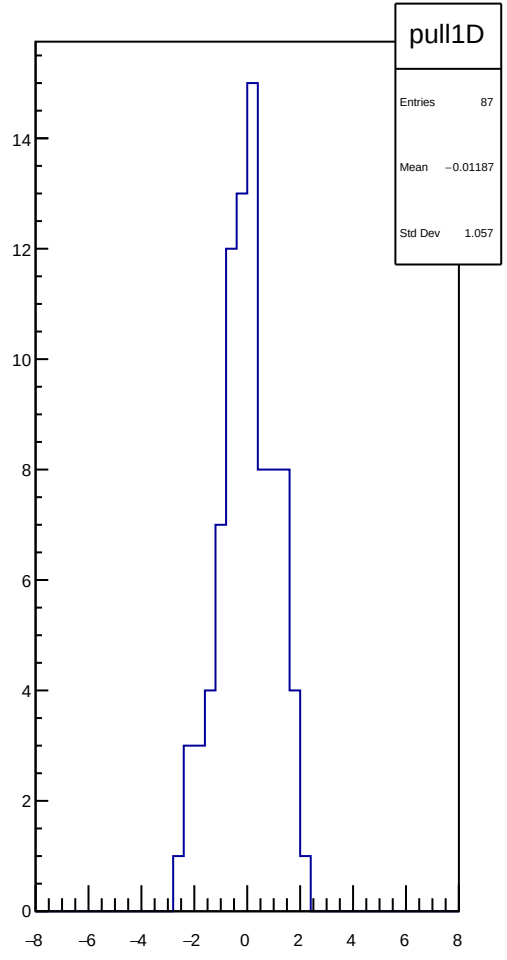

asym_sam_26_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 99.03 / 86
p0 3.99e−14 ± 5.298e−14
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 87
Mean 58.2
Std Dev 39.1
3
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.1366
Std Dev 1.058
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

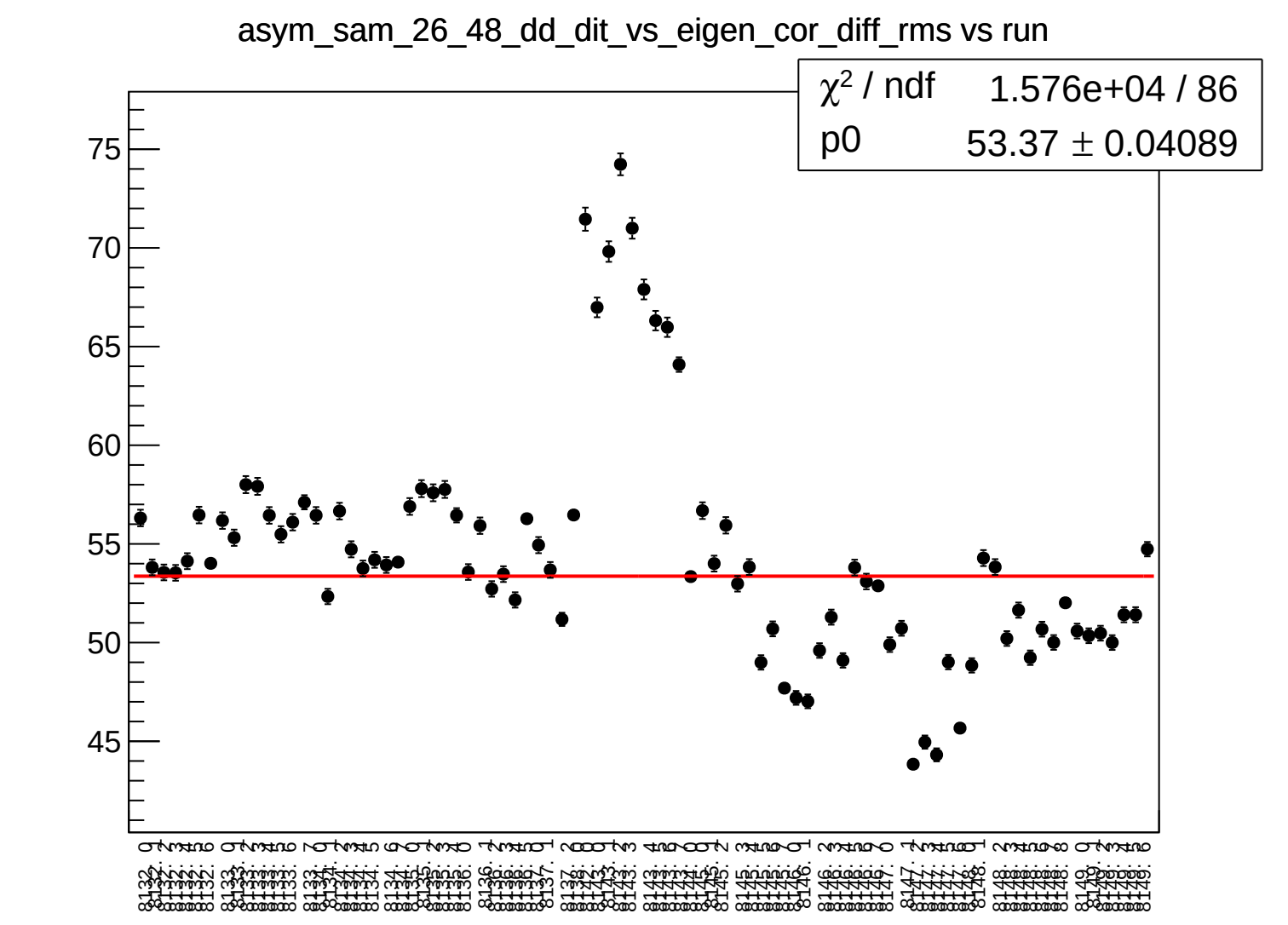

asym_sam_26_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.212e+05 / 86
p0 3.742e−11 ± 3.746e−14
0.05
0.04
0.03
0.02
0.01
0

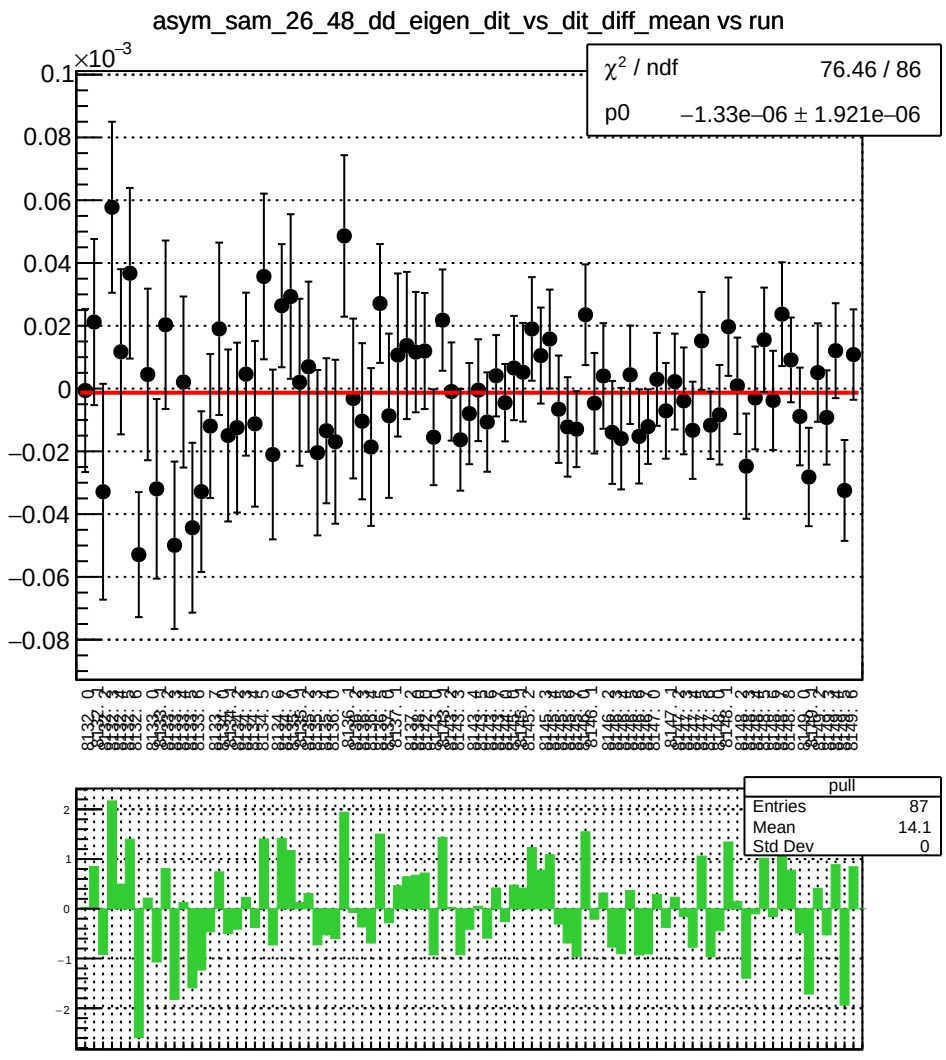

asym_sam_26_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 97.19 / 86
p0 −0.02783 ± 0.05783
pull
Entries 87
Mean 411.4
Std Dev 0
pull1D
Entries 87
Mean −0.01187
Std Dev 1.057

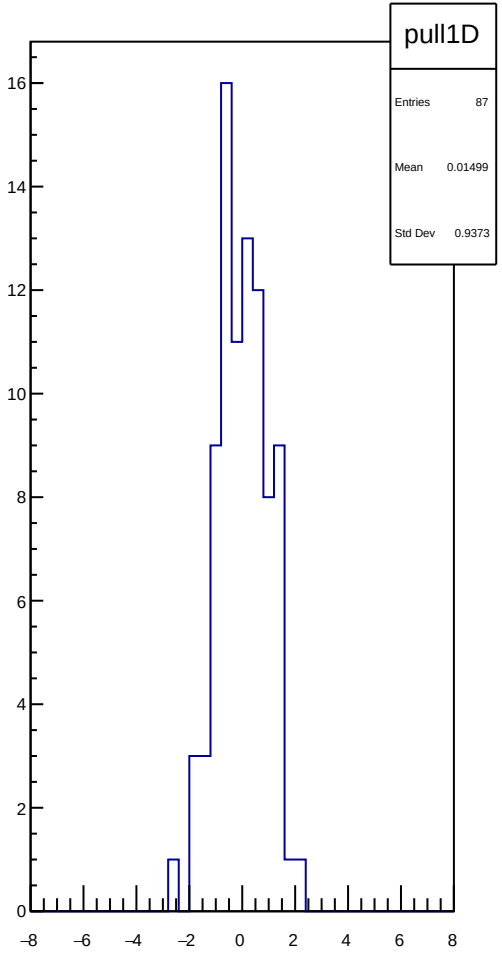

asym_sam_26_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.576e+04 / 86
p0 53.37 ± 0.04089
75
70
65
60
55
50
45

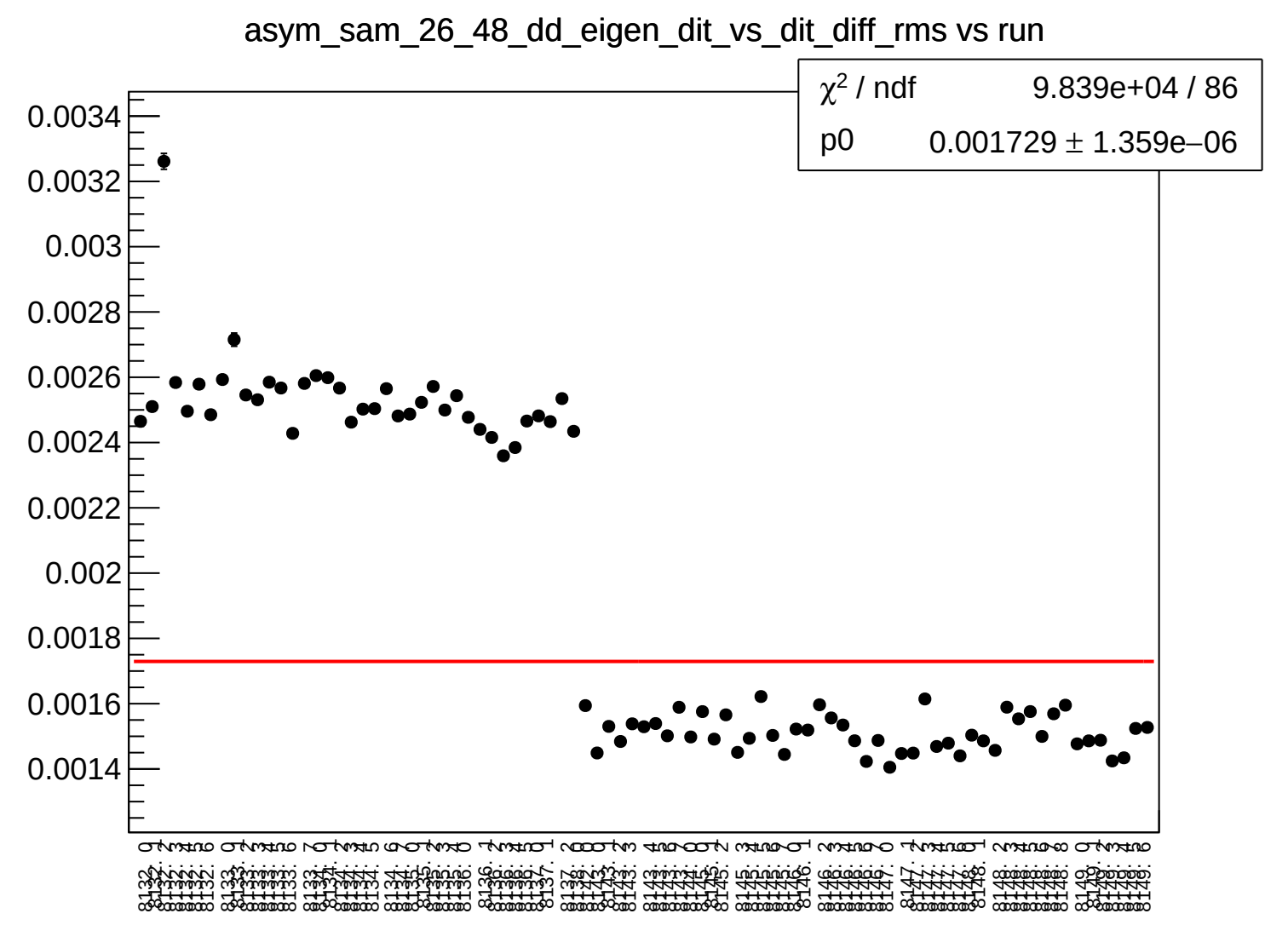

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.19 / 86
p0 −0.02783 ± 0.05783
pull
Entries 87
Mean 411.4
Std Dev 0

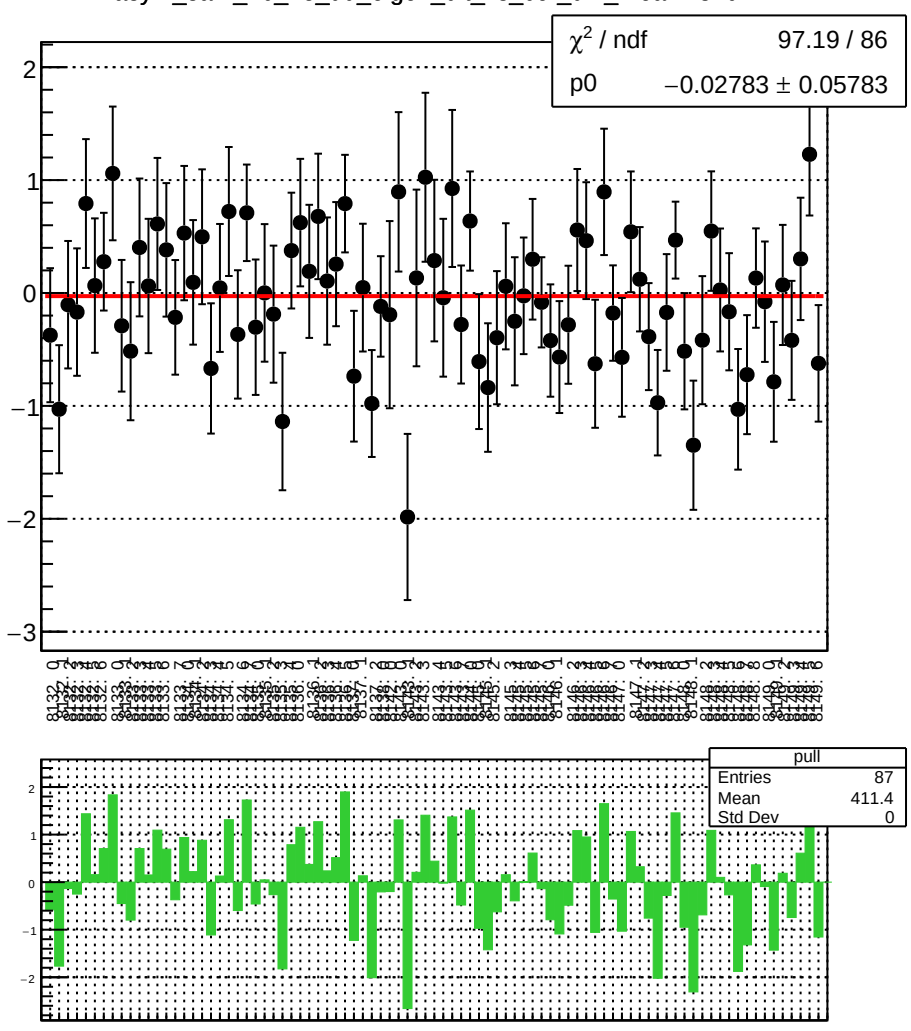

pull1D
Entries 87
Mean −0.01187
Std Dev 1.057

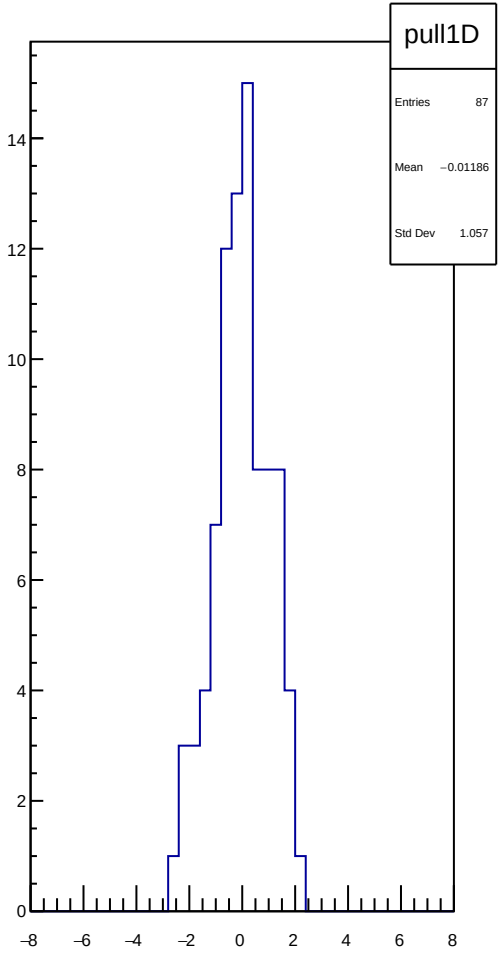

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.576e+04 / 86
p0 53.37 ± 0.04089
75
70
65
60
55
50
45

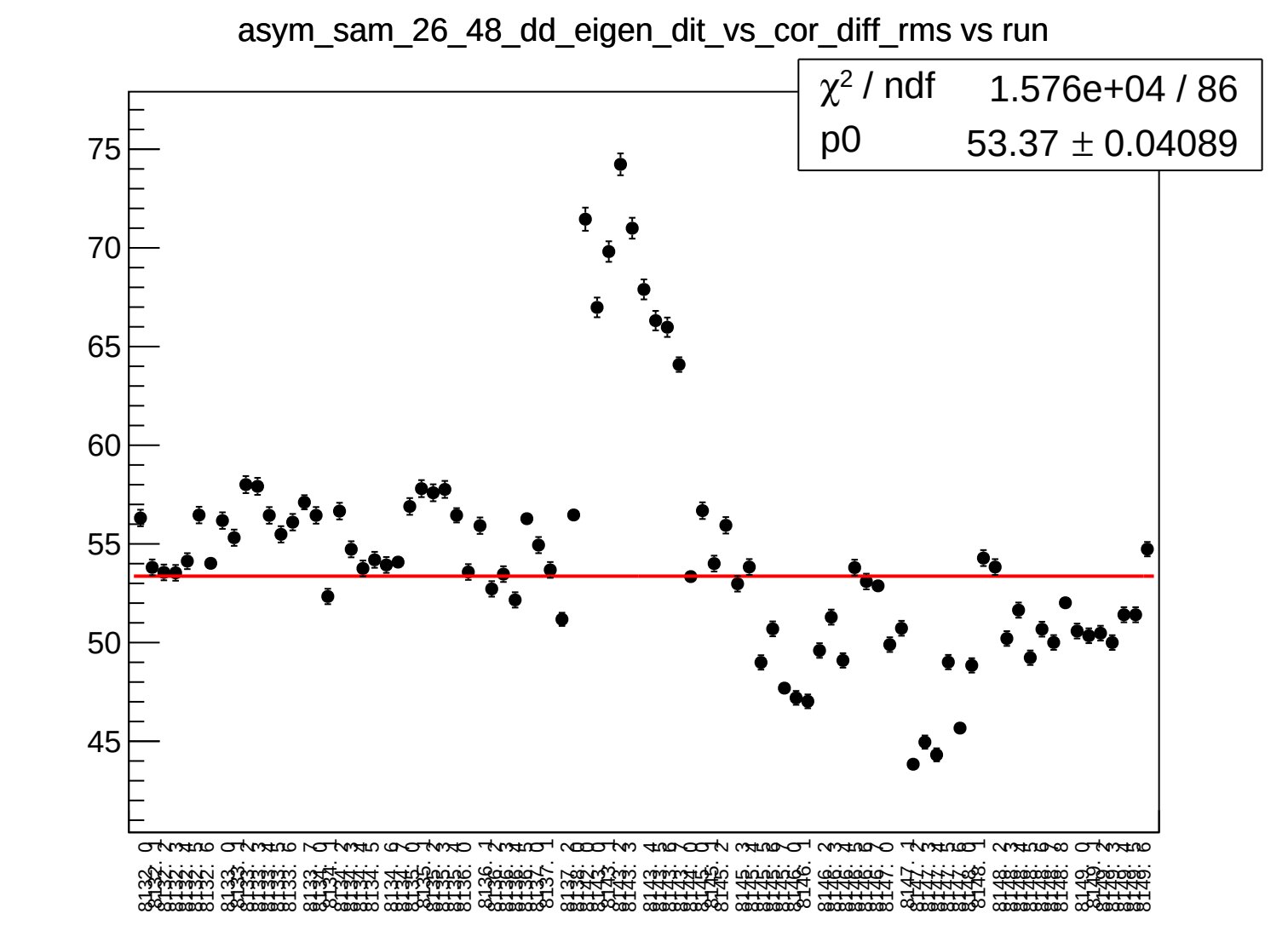

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.46 / 86
p0 −1.33e−06 ± 1.921e−06
pull
Entries 87
Mean 14.1
Std Dev 0

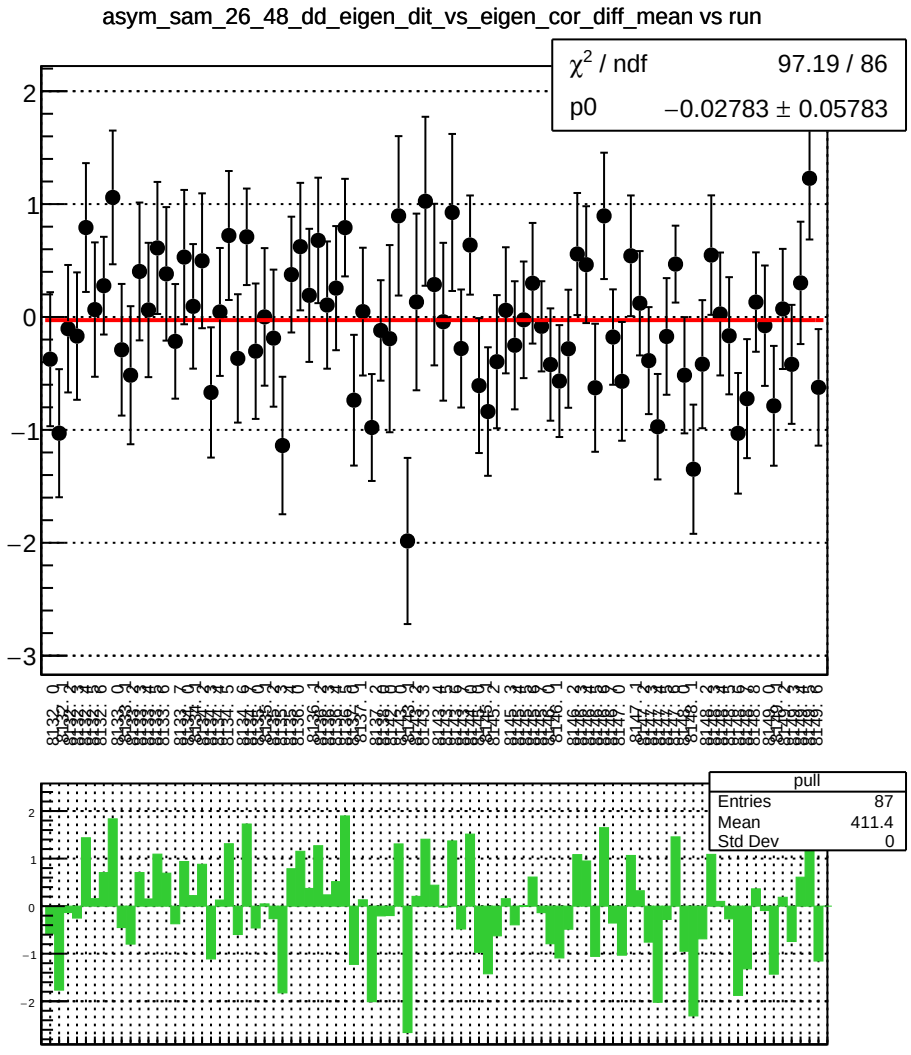

pull1D
Entries 87
Mean 0.01499
Std Dev 0.9373

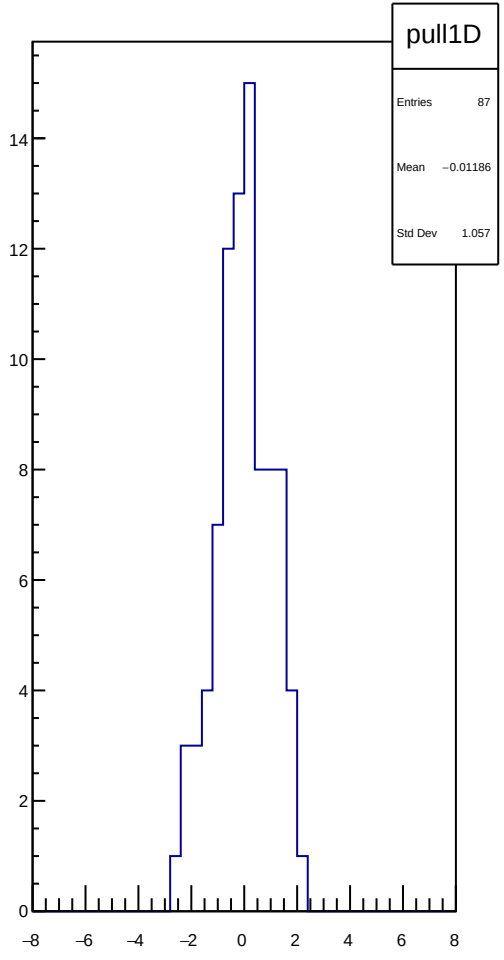

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.839e+04 / 86
p0 0.001729 ± 1.359e−06
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014

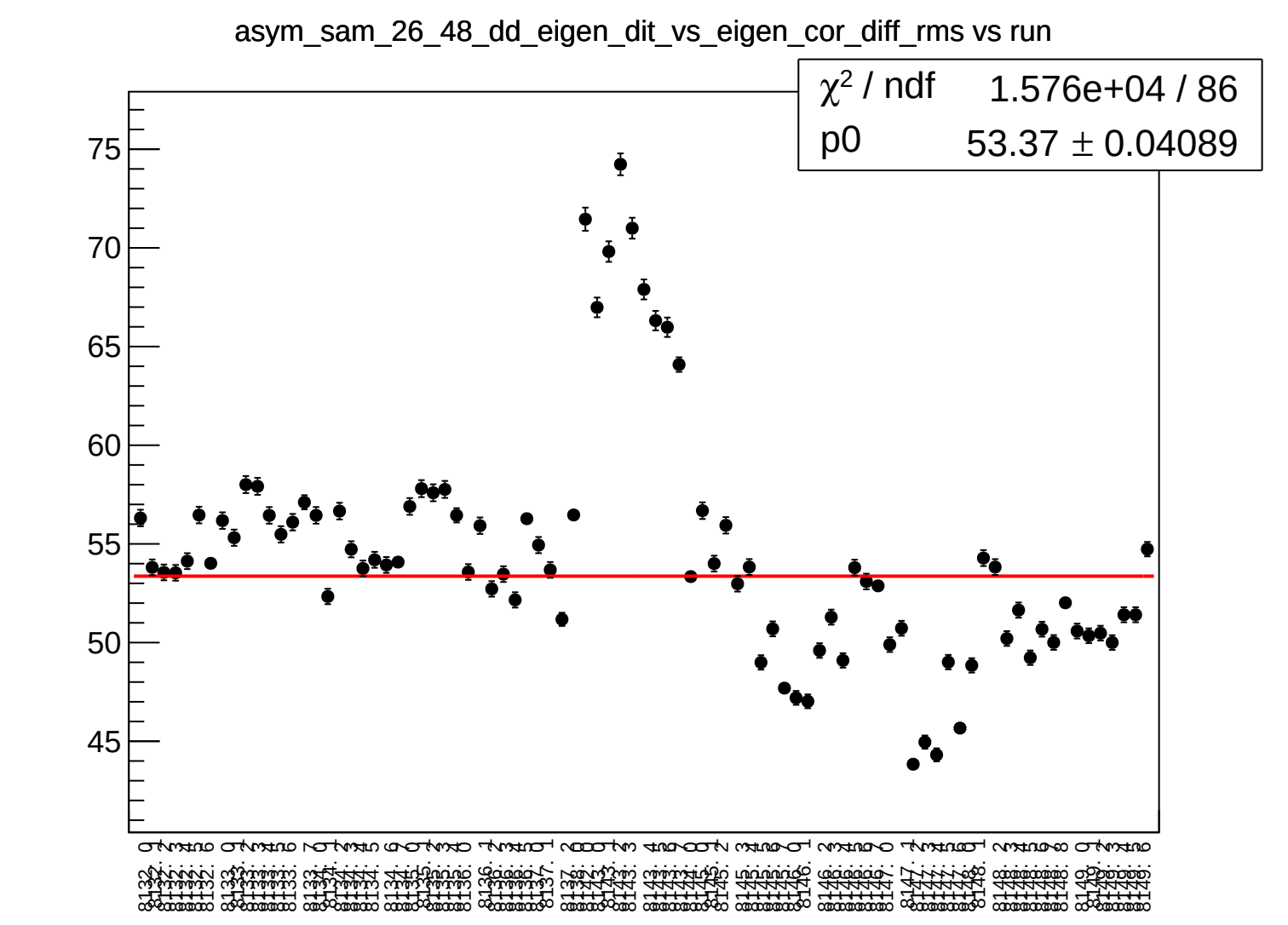

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.19 / 86
p0 −0.02783 ± 0.05783
pull
Entries 87
Mean 411.4
Std Dev 0

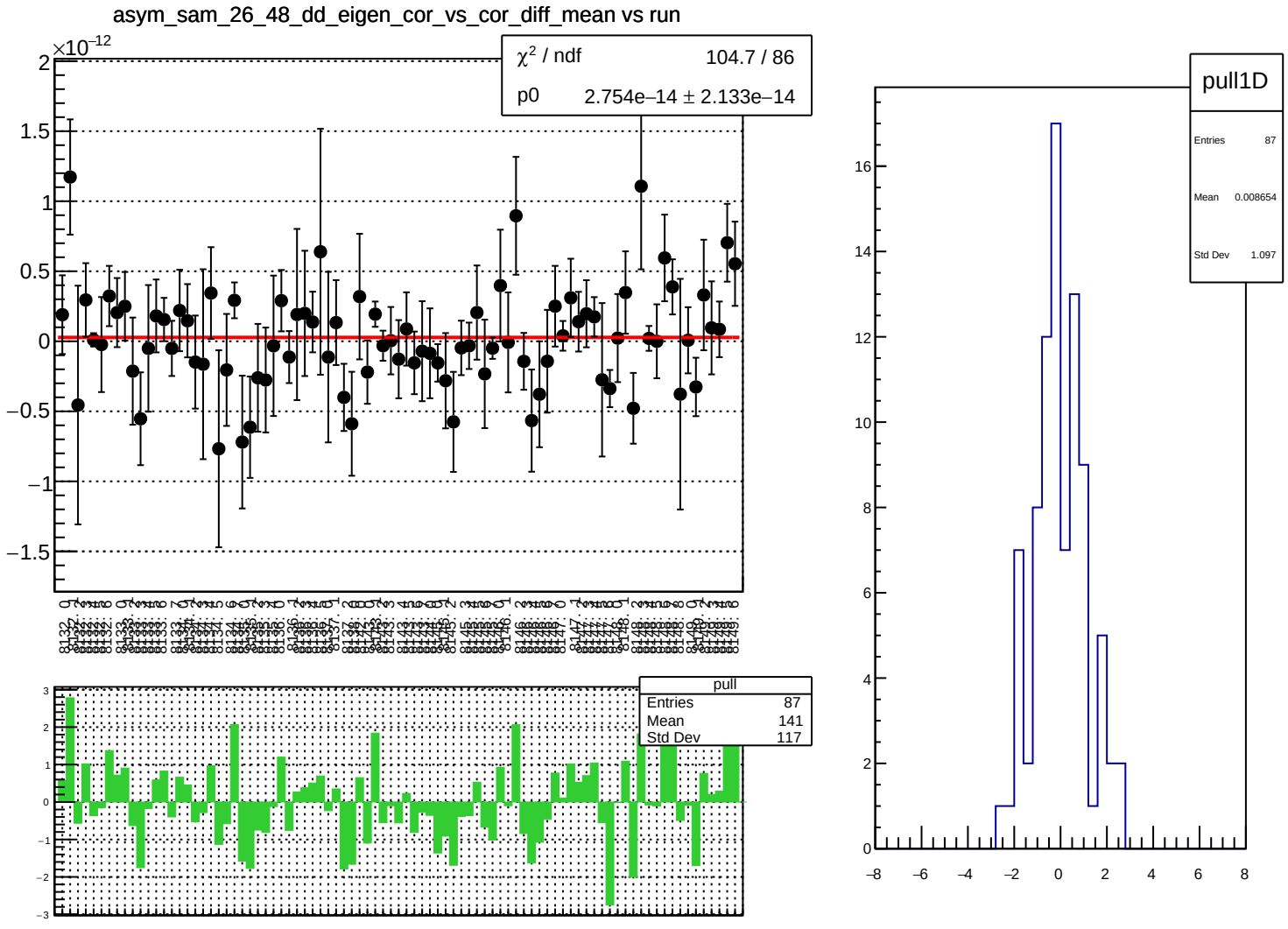

pull1D
Entries 87
Mean −0.01186
Std Dev 1.057

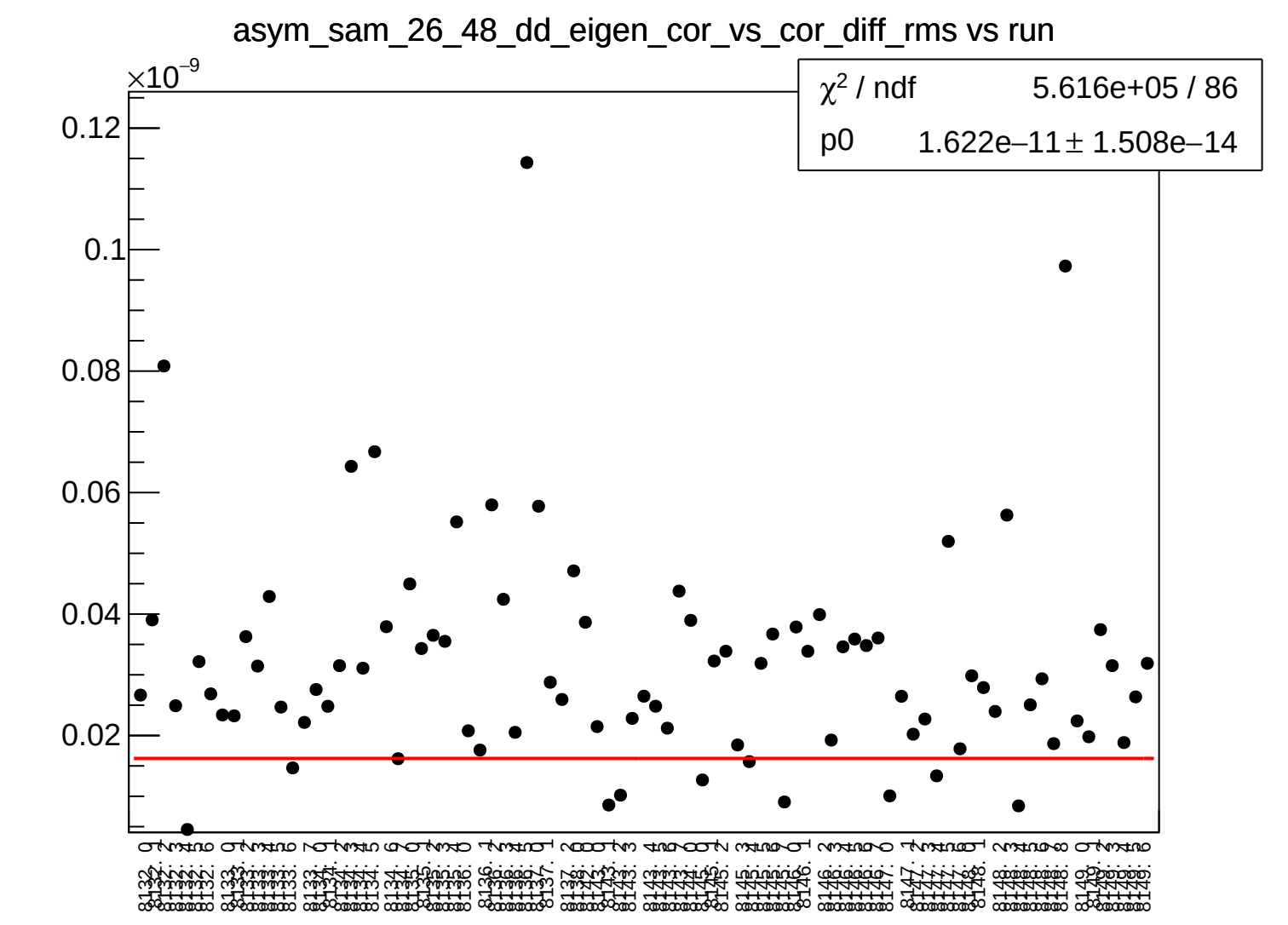

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.576e+04 / 86
p0 53.37 ± 0.04089
75
70
65
60
55
50
45

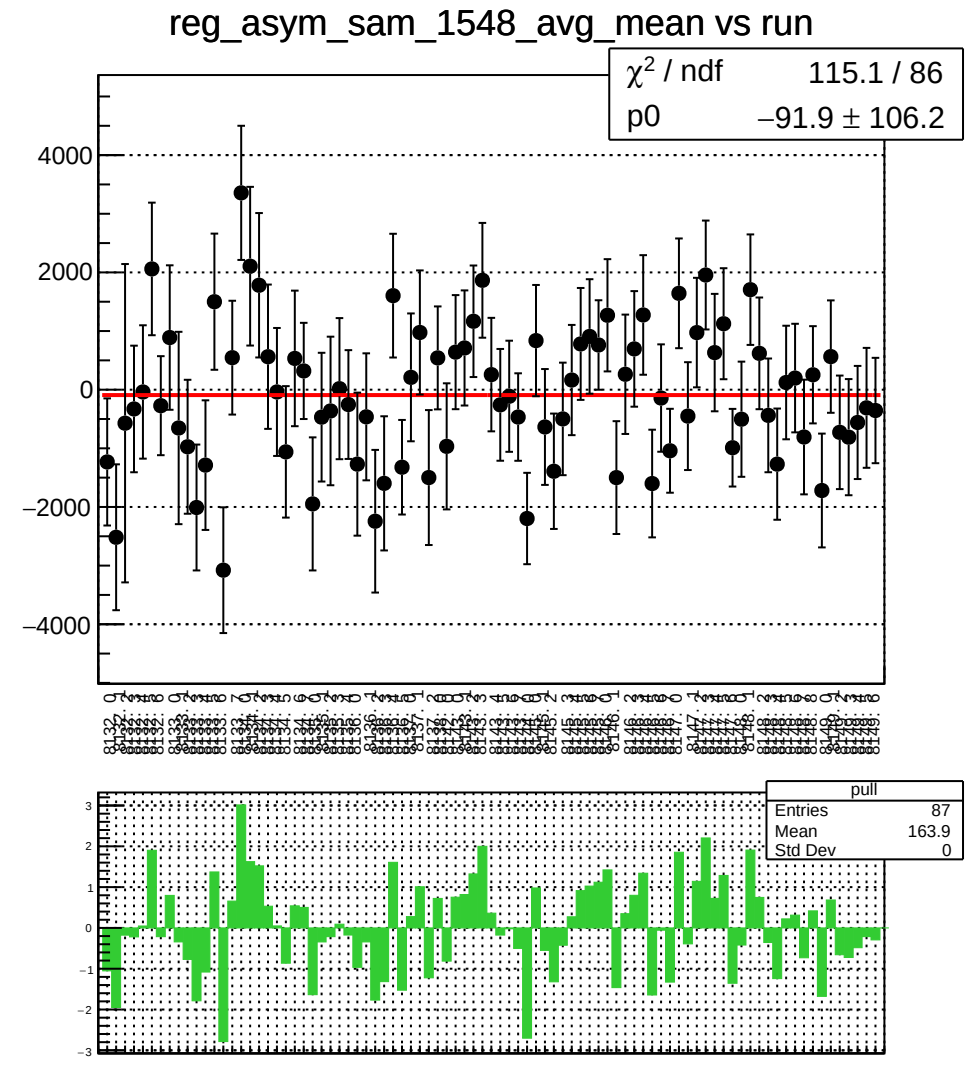

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.19 / 86
p0 −0.02783 ± 0.05783
pull
Entries 87
Mean 411.4
Std Dev 0

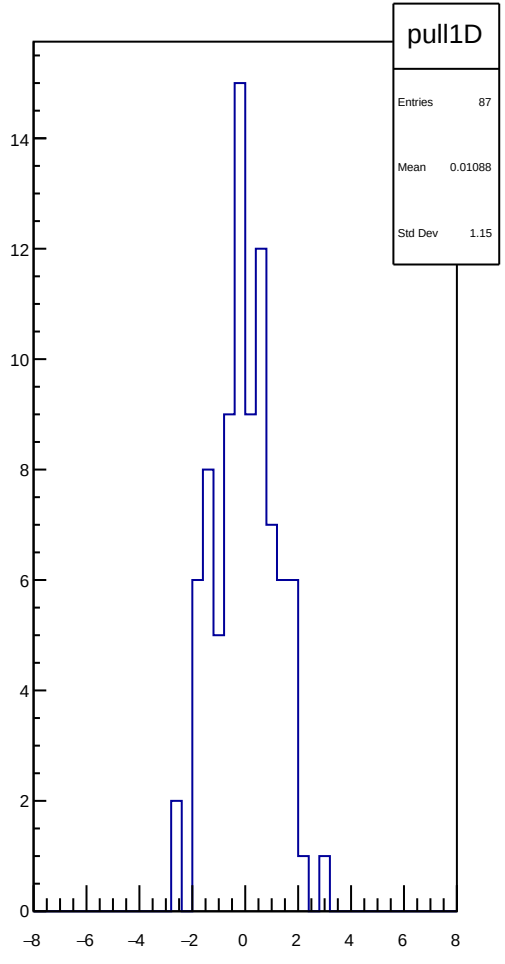

pull1D
Entries 87
Mean −0.01186
Std Dev 1.057

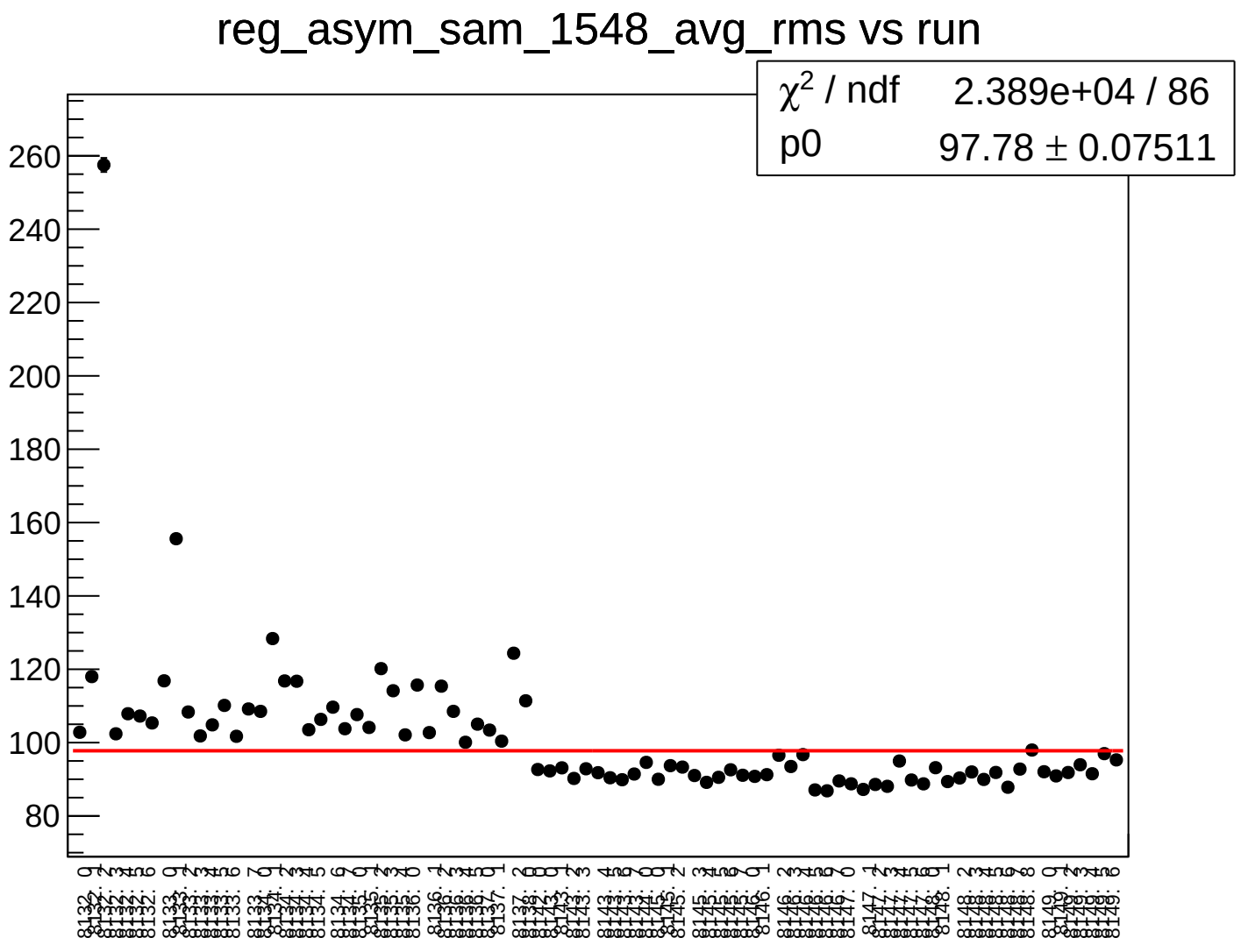

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.576e+04 / 86
p0 53.37 ± 0.04089
75
70
65
60
55
50
45

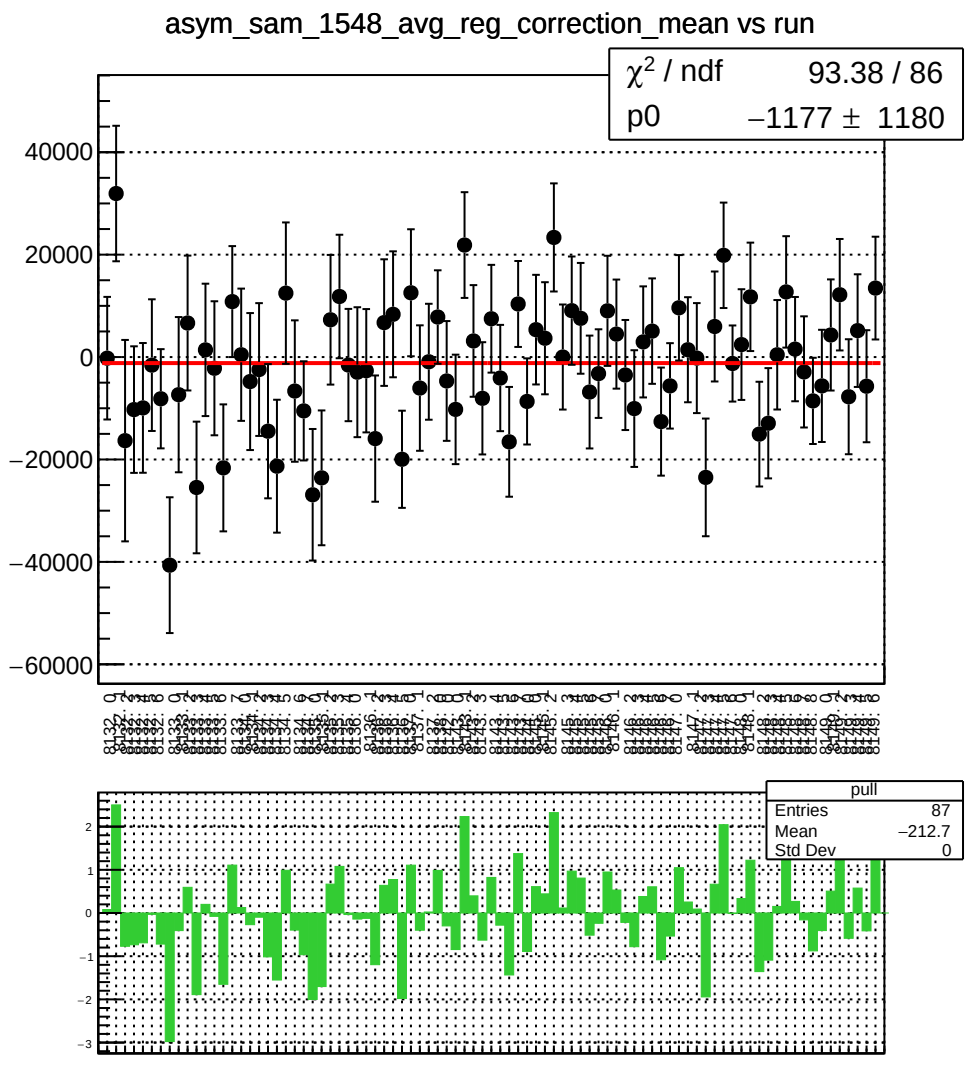

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 104.7 / 86
p0 2.754e−14 ± 2.133e−14
pull
Entries 87
Mean 141
Std Dev 117
pull1D
Entries 87
Mean 0.008654
Std Dev 1.097

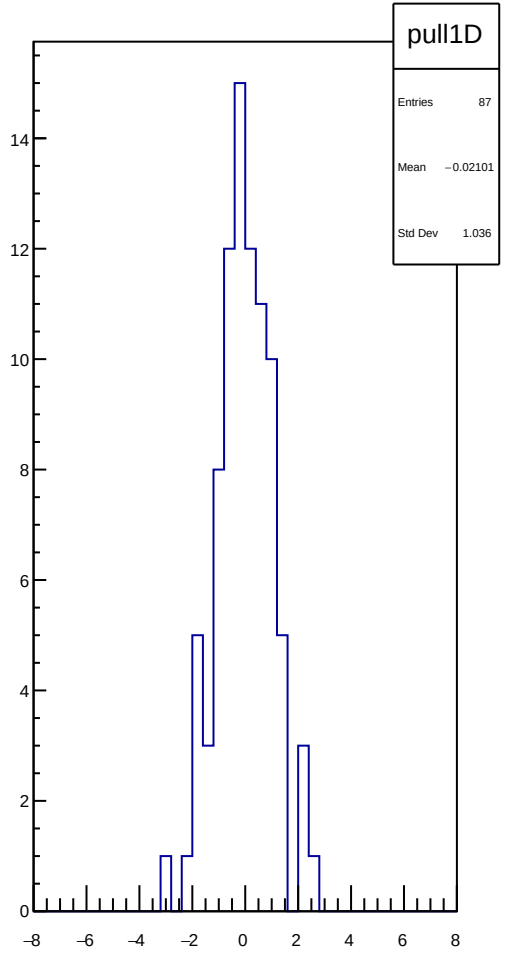

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.616e+05 / 86
p0 1.622e−11 ± 1.508e−14
0.12
0.1
0.08
0.06
0.04
0.02

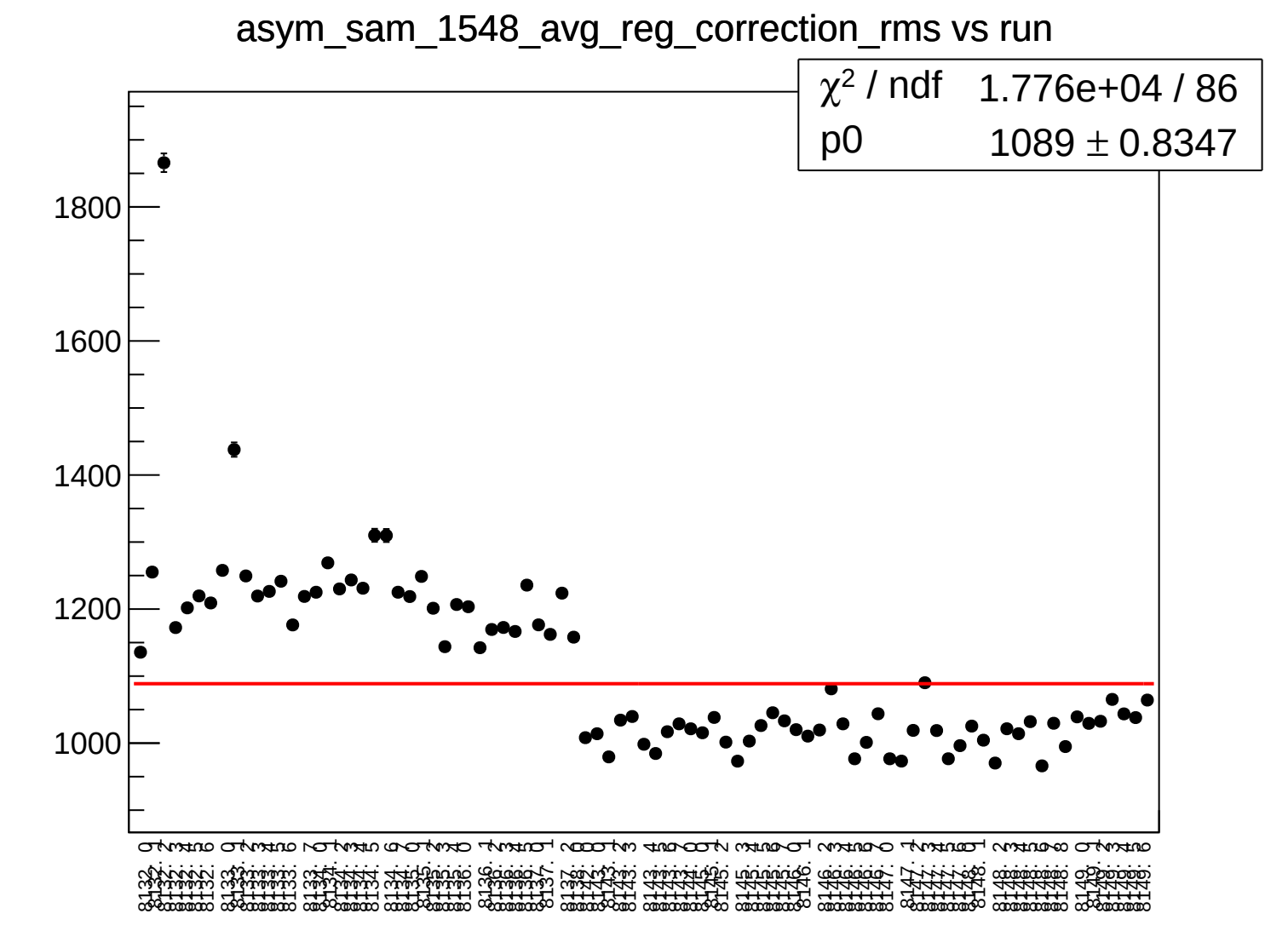

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 115.1 / 86
p0 −91.9 ± 106.2
4000
2000
0
−2000
−4000
pull
Entries 87
Mean 163.9
Std Dev 0
3
2
1
0
−1
−2
−3

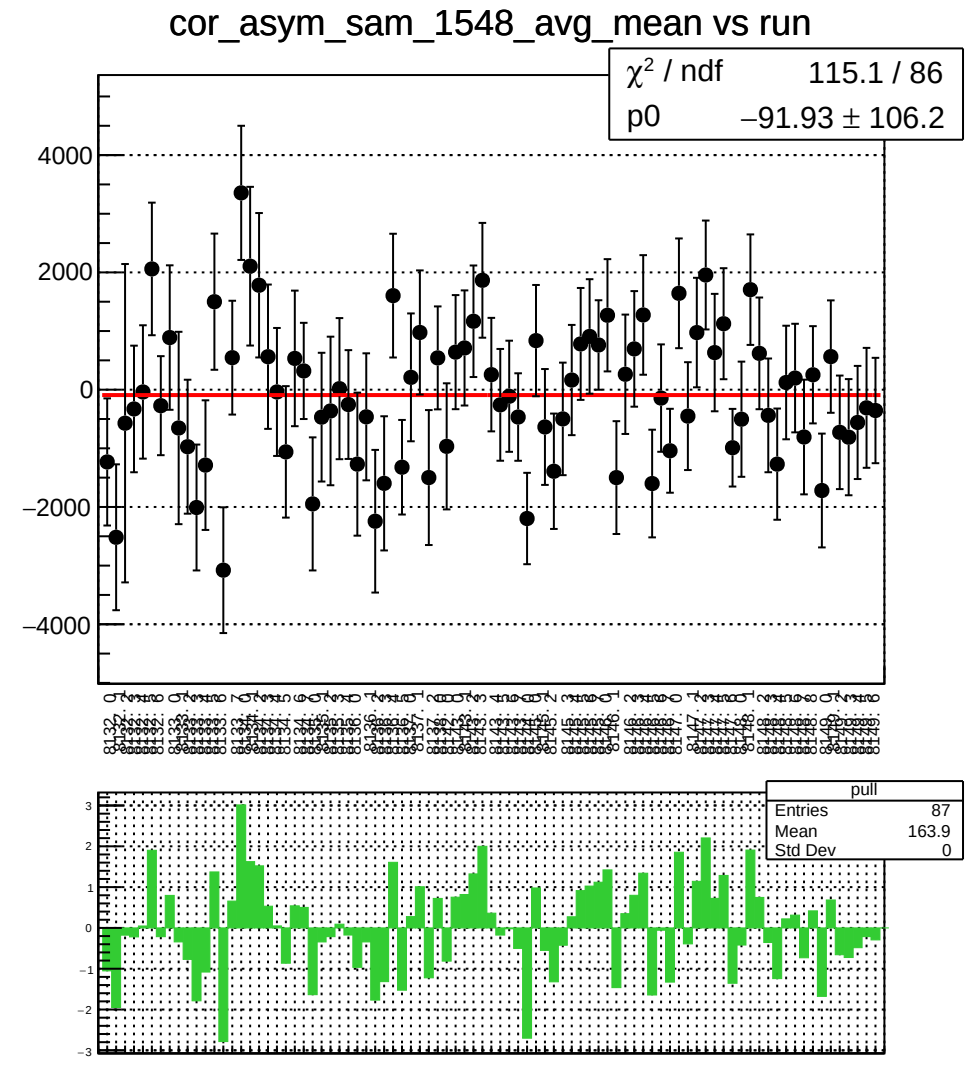

pull1D
Entries 87
Mean 0.01088
Std Dev 1.15
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

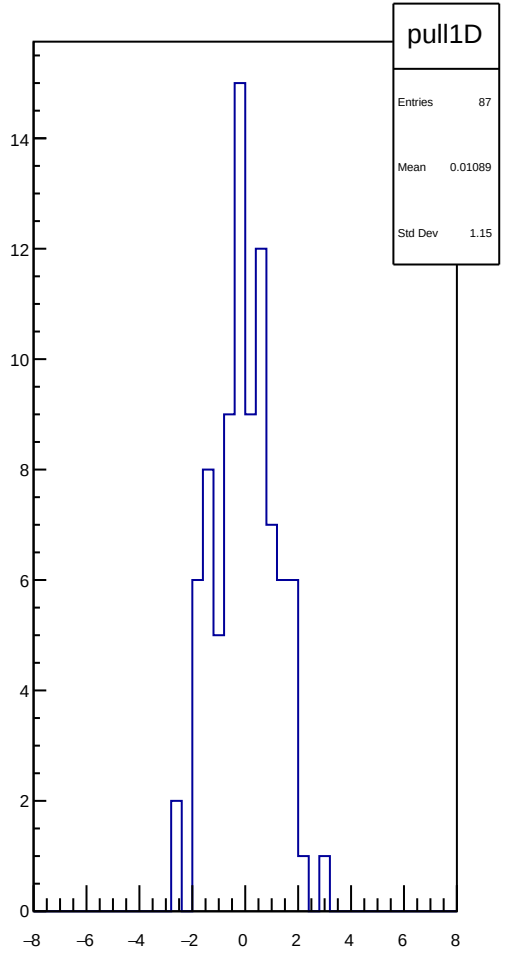

reg_asym_sam_1548_avg_rms vs run
χ² / ndf 2.389e+04 / 86
p0 97.78 ± 0.07511
260
240
220
200
180
160
140
120
100
80

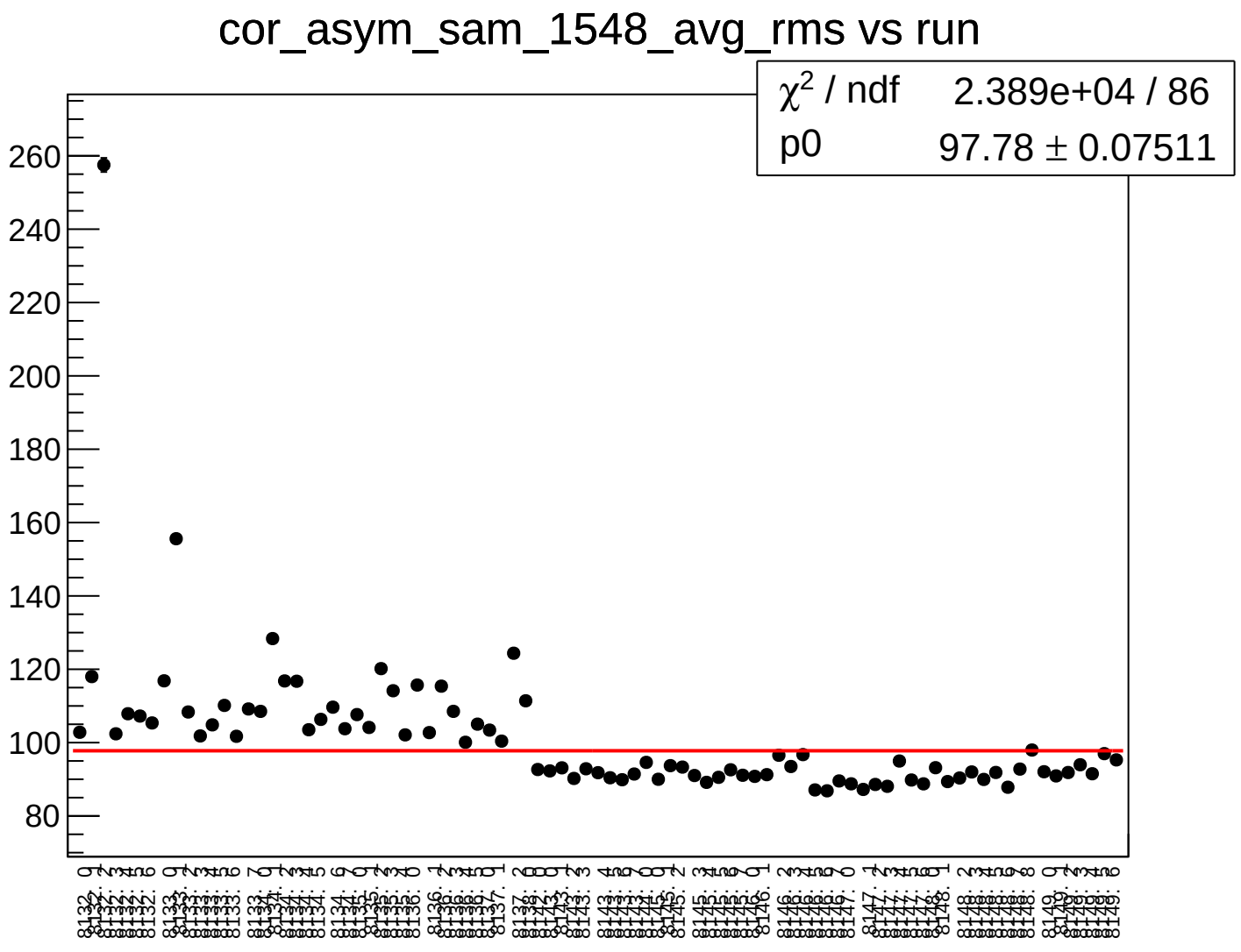

asym_sam_1548_avg_reg_correction_mean vs run
χ² / ndf 93.38 / 86
p0 −1177 ± 1180
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −212.7
Std Dev 0
2
1
0
−1
−2
−3

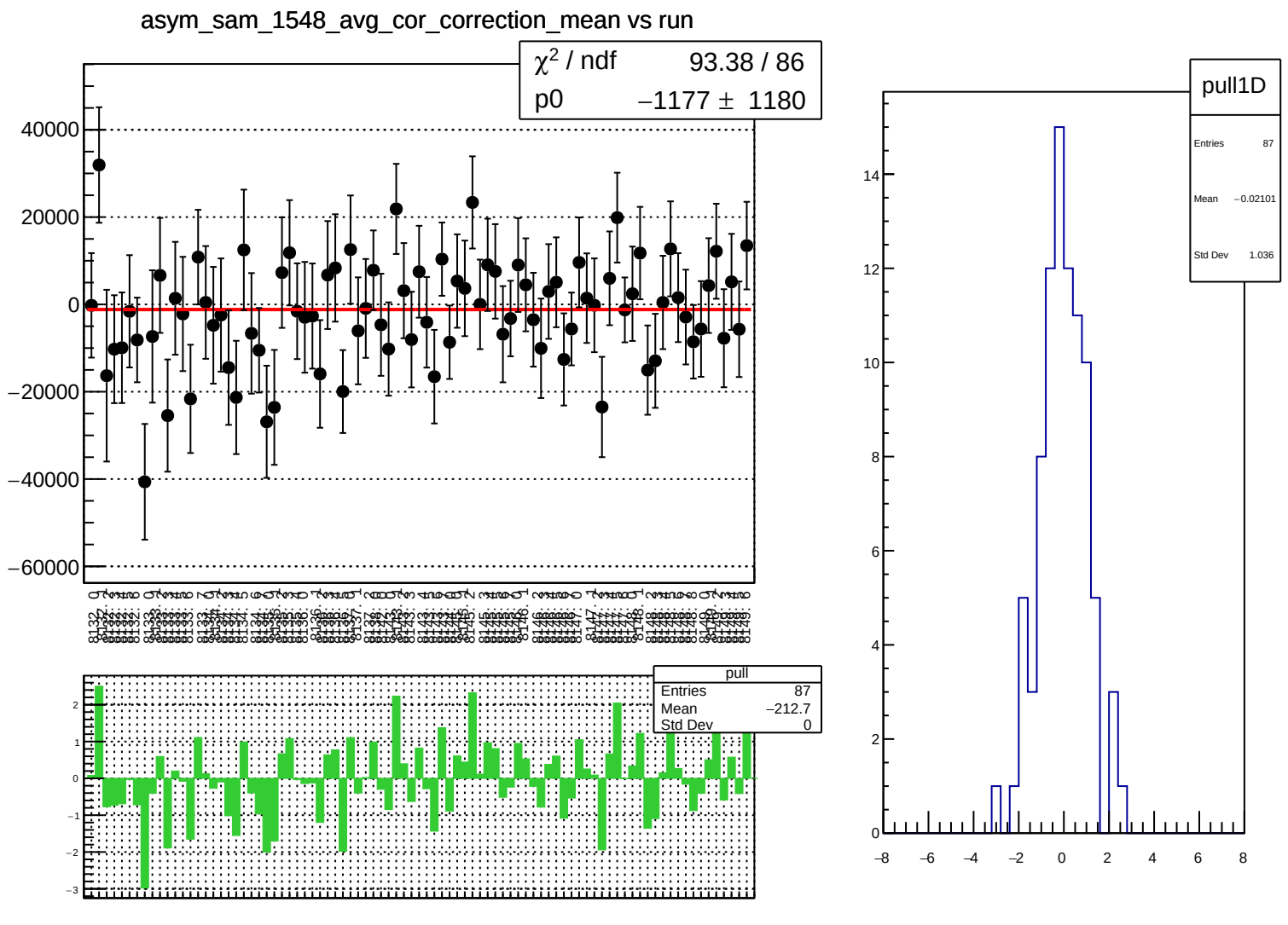

pull1D
Entries 87
Mean −0.02101
Std Dev 1.036
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

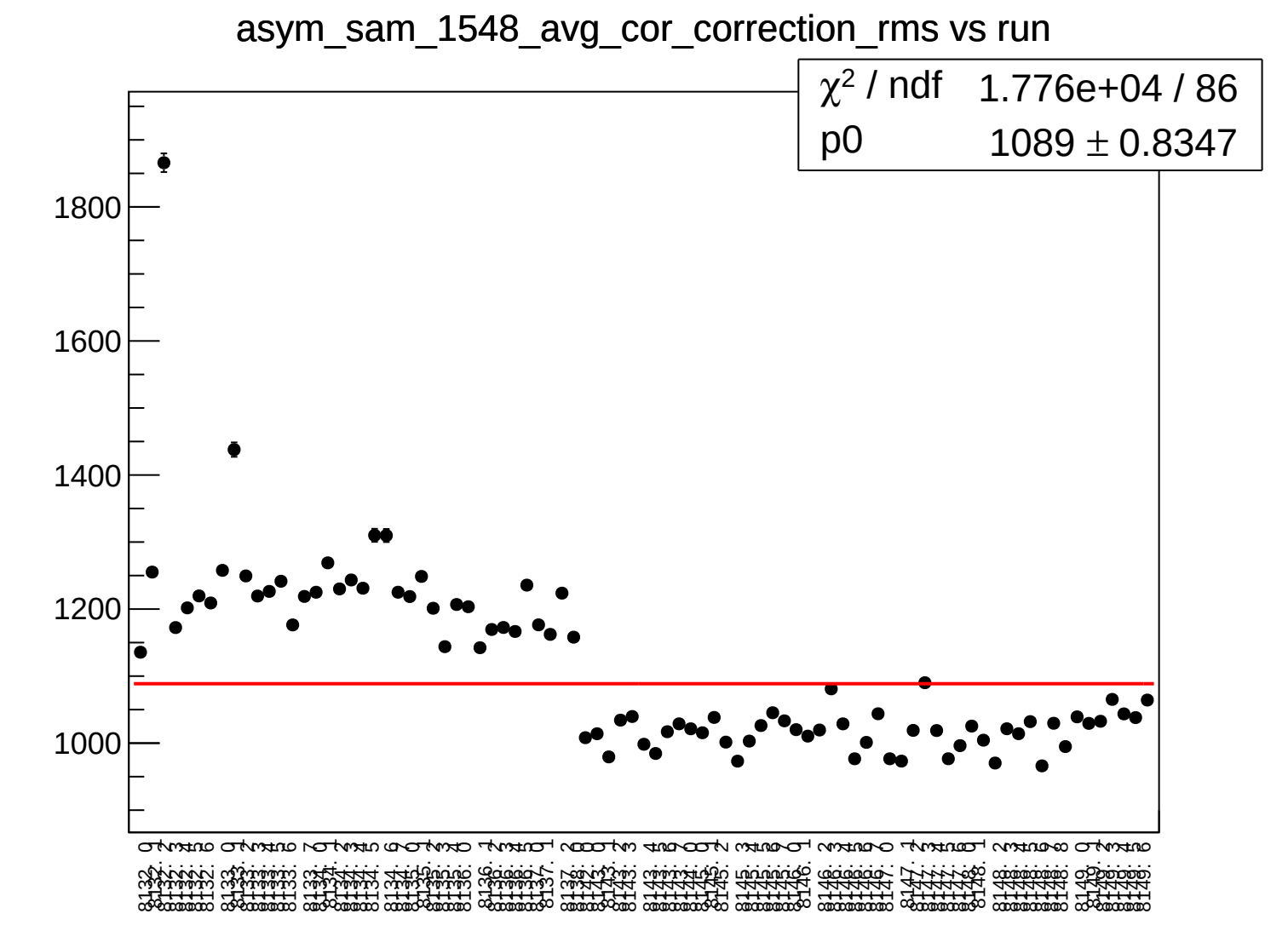

asym_sam_1548_avg_reg_correction_rms vs run
χ² / ndf 1.776e+04 / 86
p0 1089 ± 0.8347
1800
1600
1400
1200
1000

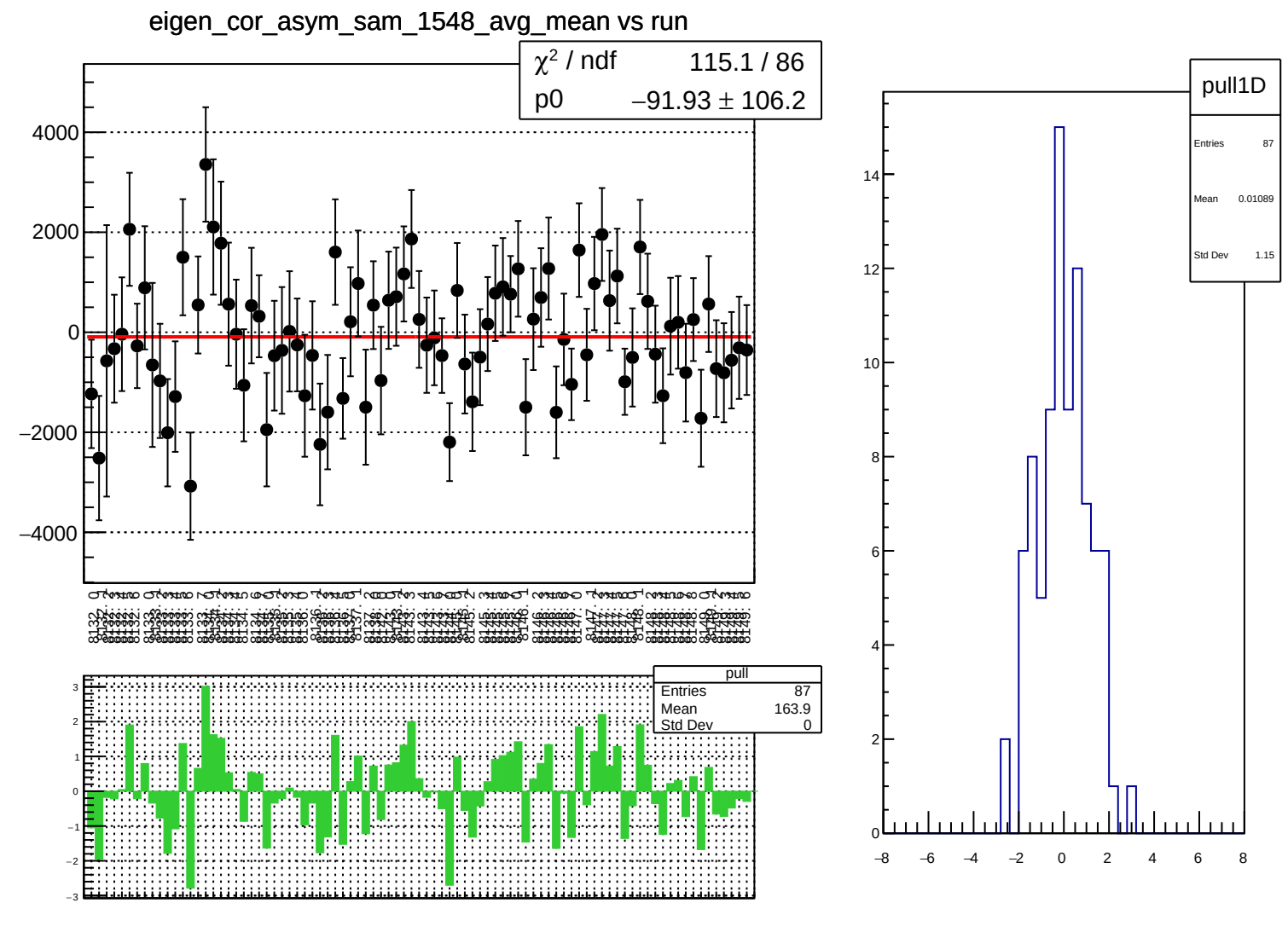

cor_asym_sam_1548_avg_mean vs run
χ² / ndf 115.1 / 86
p0 −91.93 ± 106.2
4000
2000
0
−2000
−4000
pull
Entries 87
Mean 163.9
Std Dev 0
3
2
1
0
−1
−2
−3

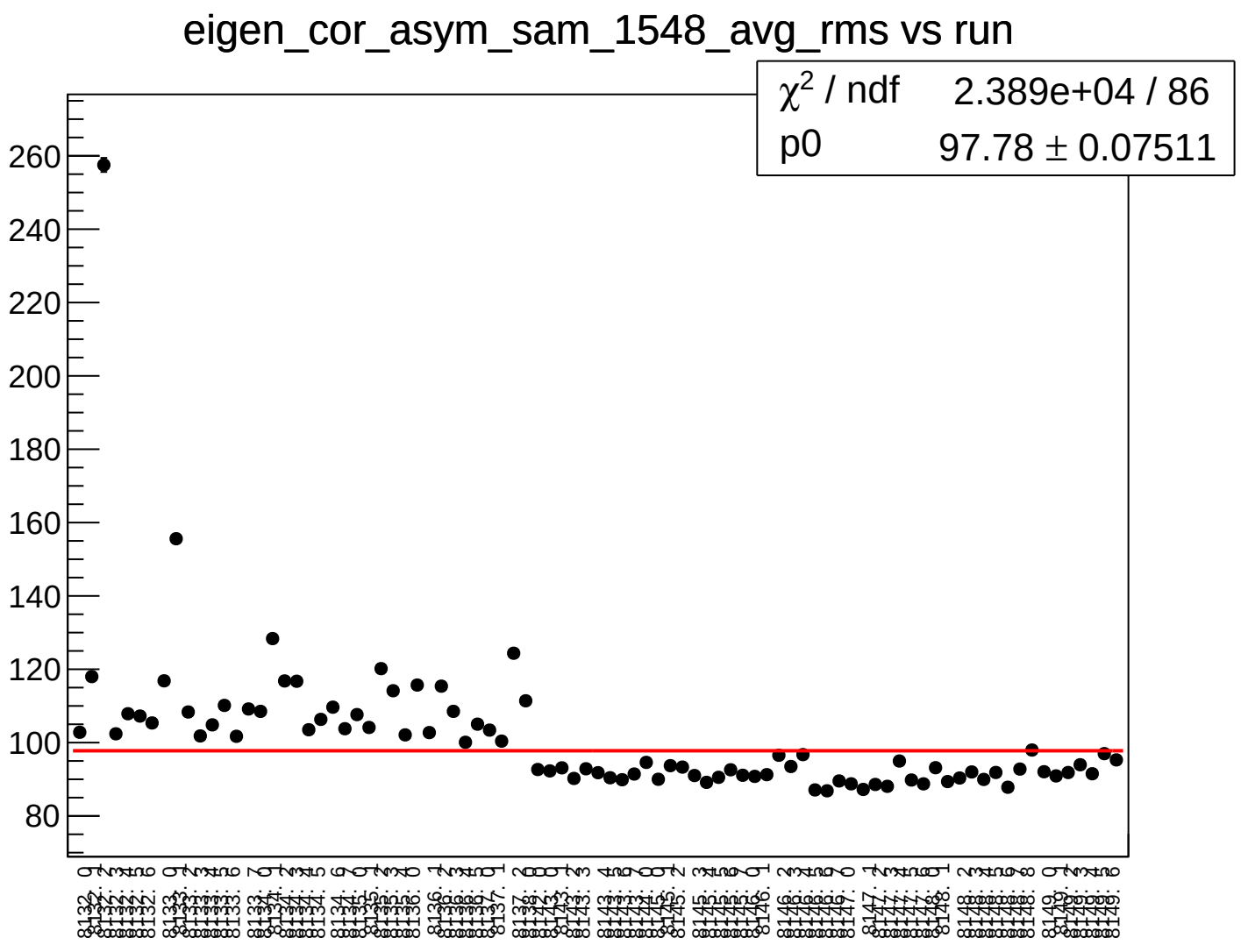

pull1D
Entries 87
Mean 0.01089
Std Dev 1.15
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

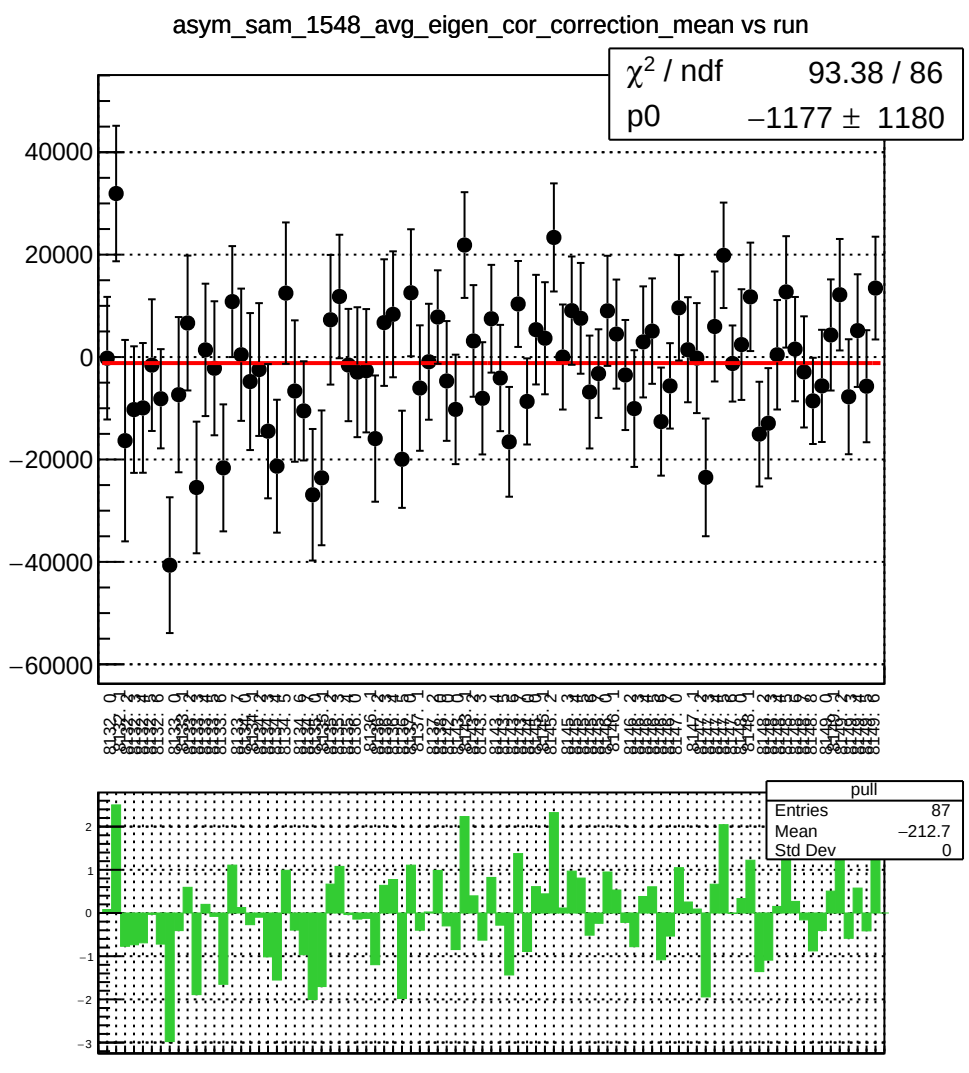

cor_asym_sam_1548_avg_rms vs run
χ² / ndf 2.389e+04 / 86
p0 97.78 ± 0.07511
260
240
220
200
180
160
140
120
100
80

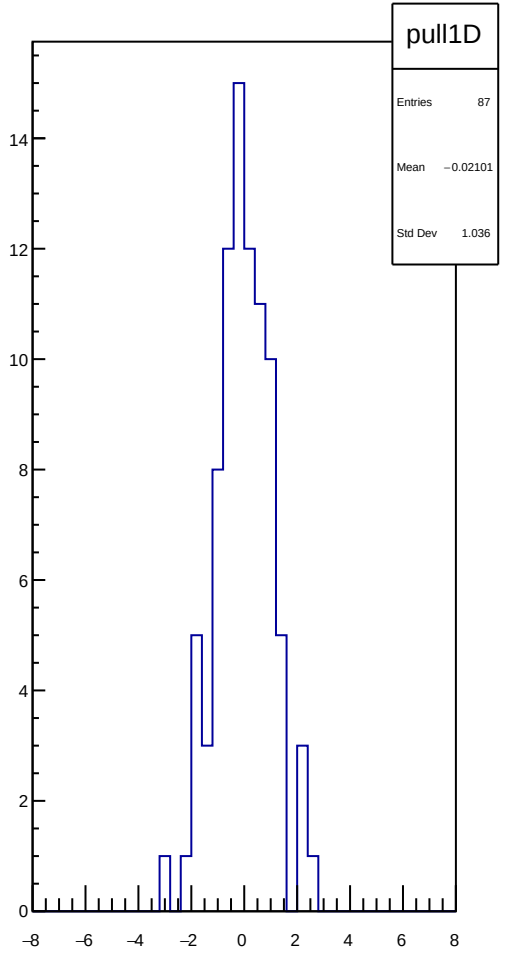

asym_sam_1548_avg_cor_correction_mean vs run
χ² / ndf 93.38 / 86
p0 −1177 ± 1180
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −212.7
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean −0.02101
Std Dev 1.036
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

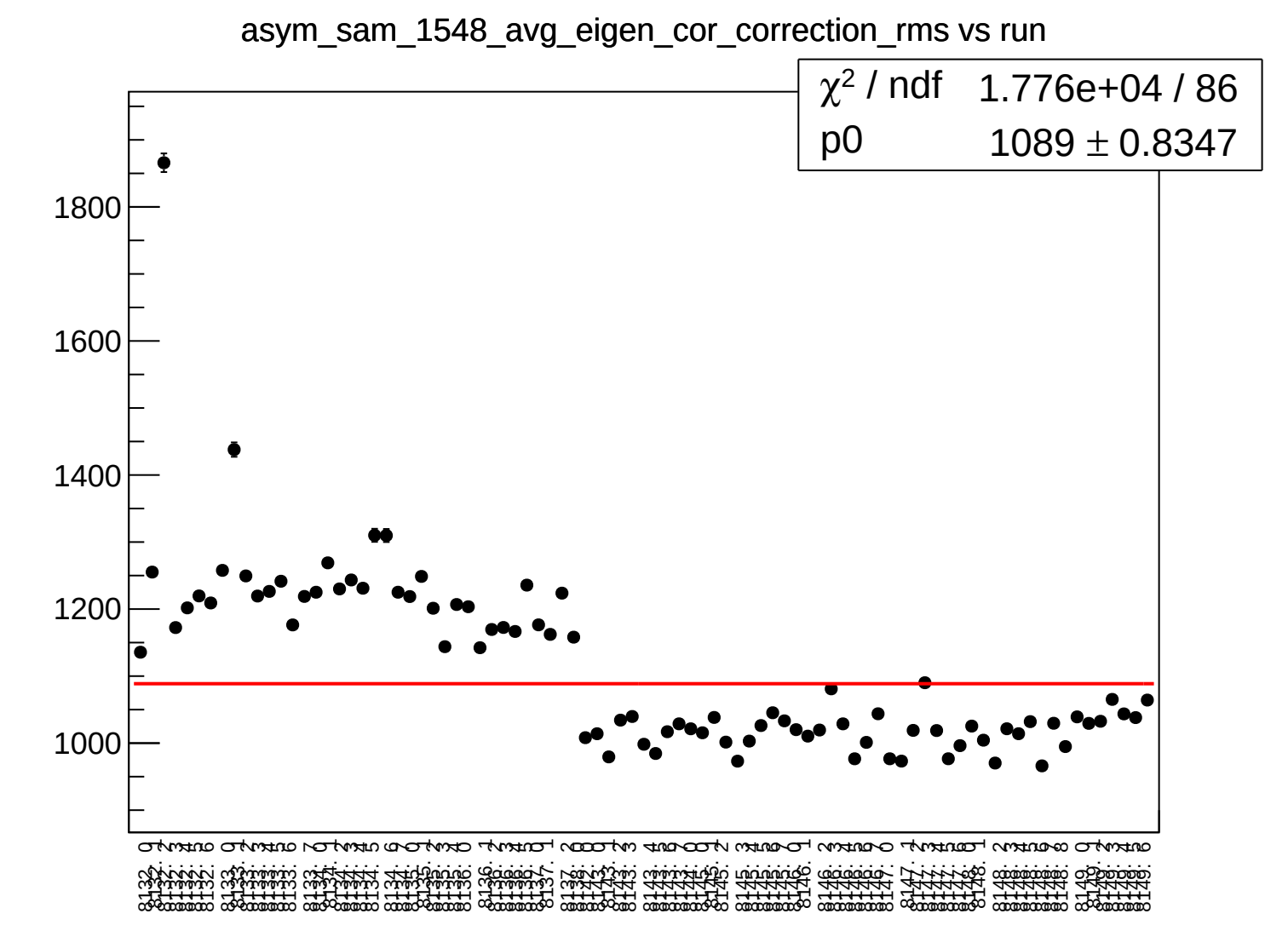

asym_sam_1548_avg_cor_correction_rms vs run
χ² / ndf 1.776e+04 / 86
p0 1089 ± 0.8347
1800
1600
1400
1200
1000

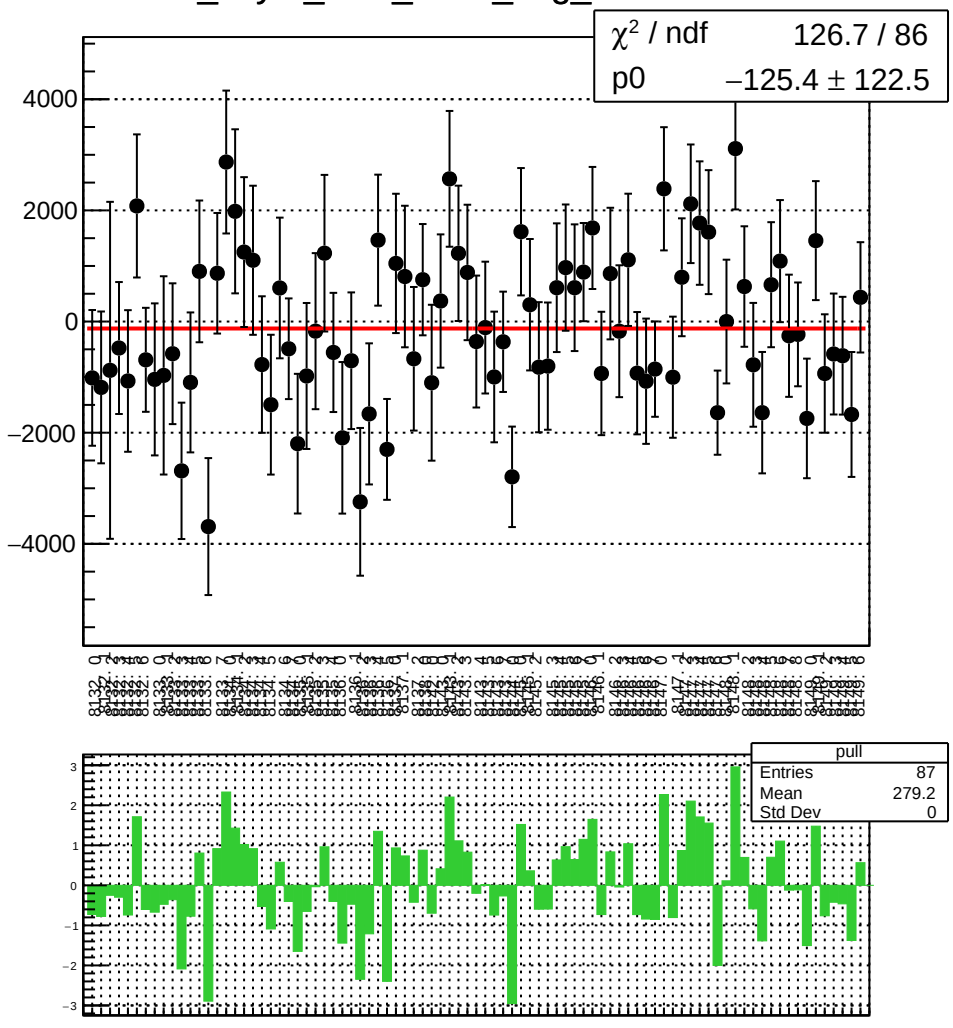

eigen_cor_asym_sam_1548_avg_mean vs run
χ² / ndf 115.1 / 86
p0 −91.93 ± 106.2
4000
2000
0
−2000
−4000
pull
Entries 87
Mean 163.9
Std Dev 0
pull1D
Entries 87
Mean 0.01089
Std Dev 1.15

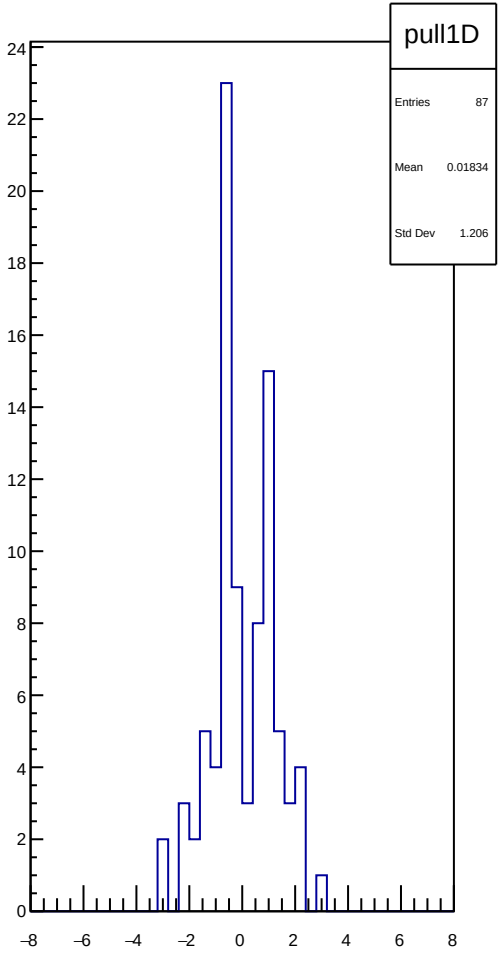

eigen_cor_asym_sam_1548_avg_rms vs run
χ² / ndf 2.389e+04 / 86
p0 97.78 ± 0.07511
260
240
220
200
180
160
140
120
100
80


asym_sam_1548_avg_eigen_cor_correction_mean vs run
χ² / ndf 93.38 / 86
p0 −1177 ± 1180
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −212.7
Std Dev 0
2
1
0
−1
−2
−3

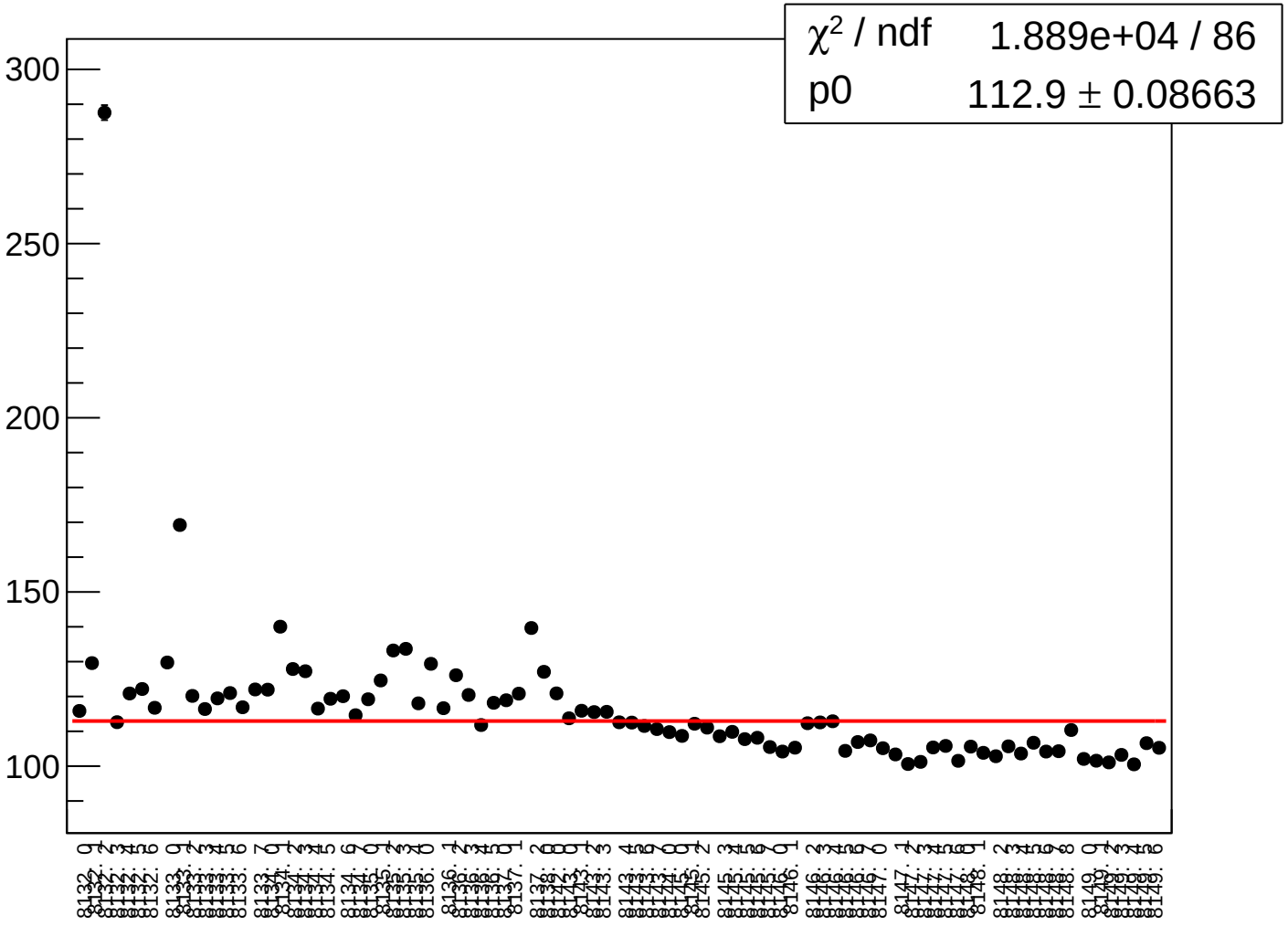

pull1D
Entries 87
Mean −0.02101
Std Dev 1.036
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

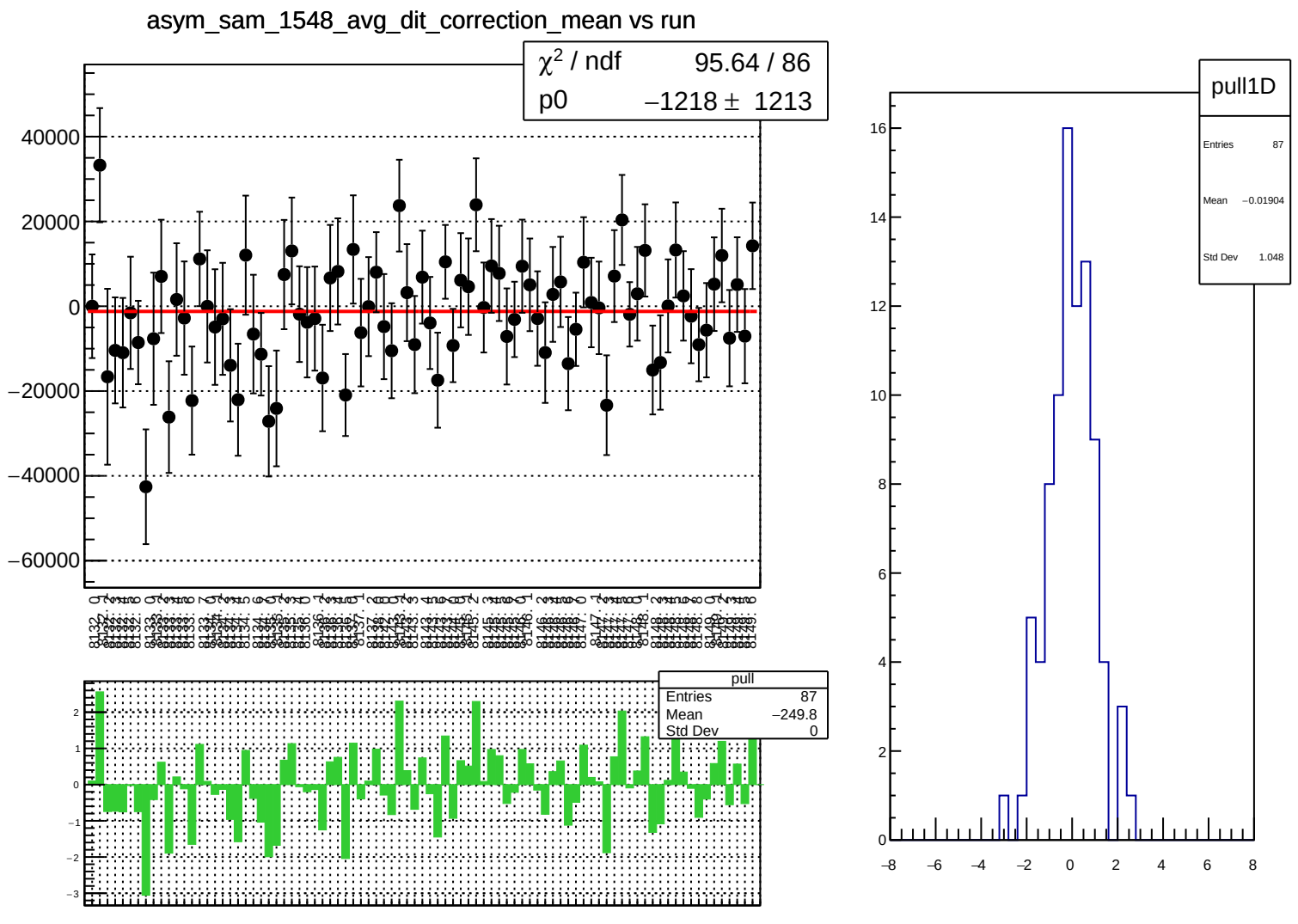

asym_sam_1548_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.776e+04 / 86
p0 1089 ± 0.8347
1800
1600
1400
1200
1000

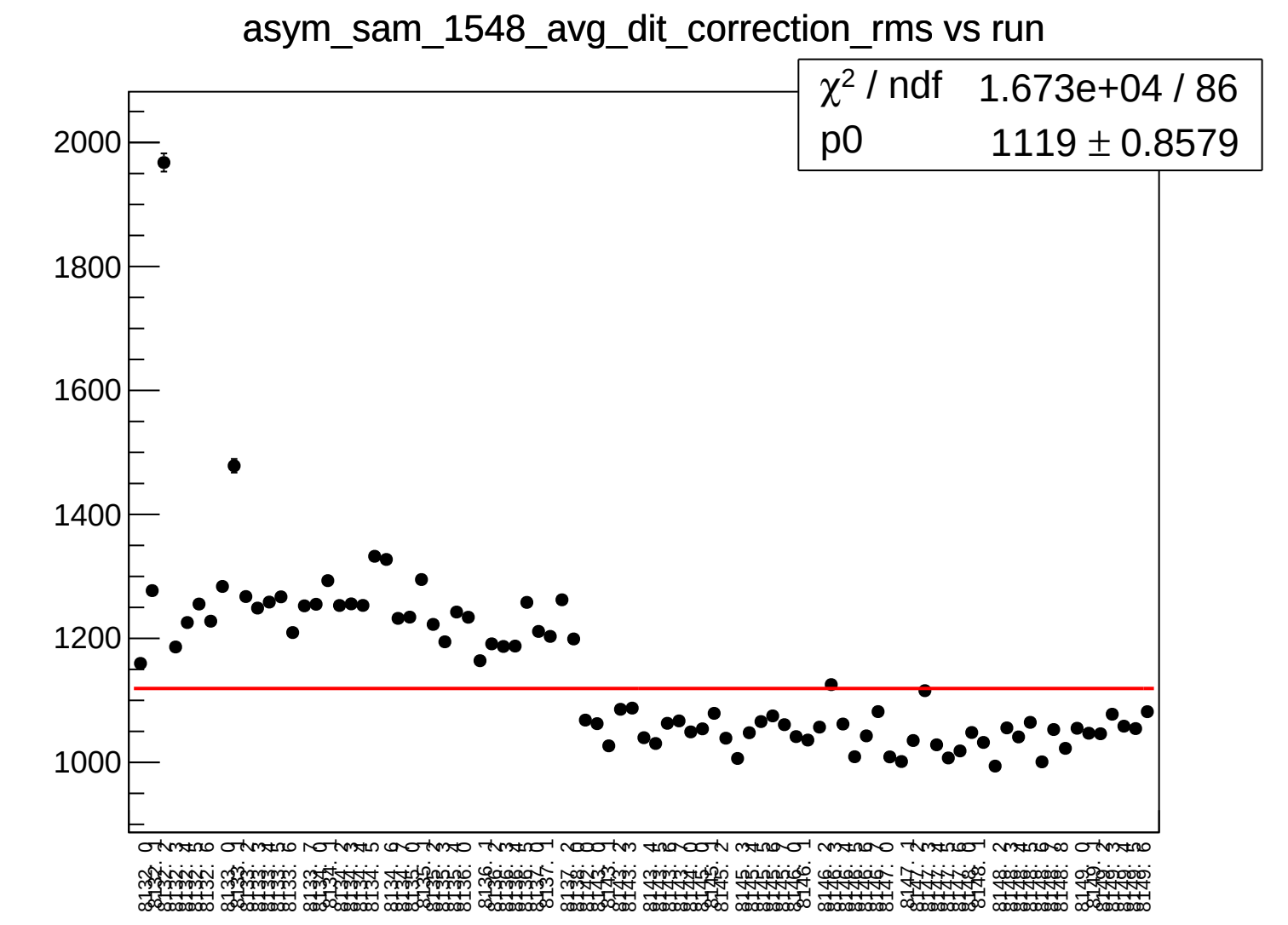

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 126.7 / 86
p0 −125.4 ± 122.5
pull
Entries 87
Mean 279.2
Std Dev 0

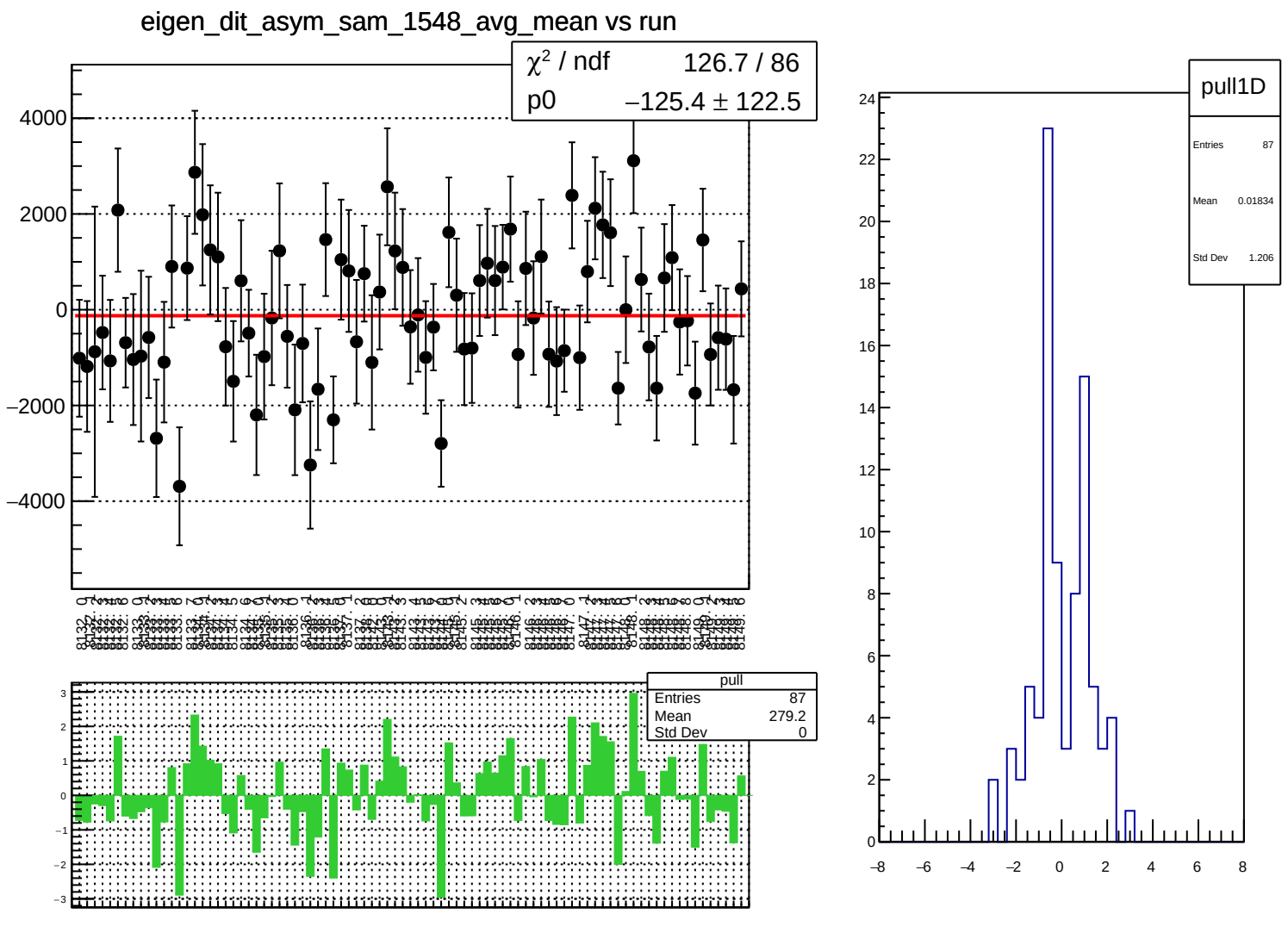

pull1D
Entries 87
Mean 0.01834
Std Dev 1.206

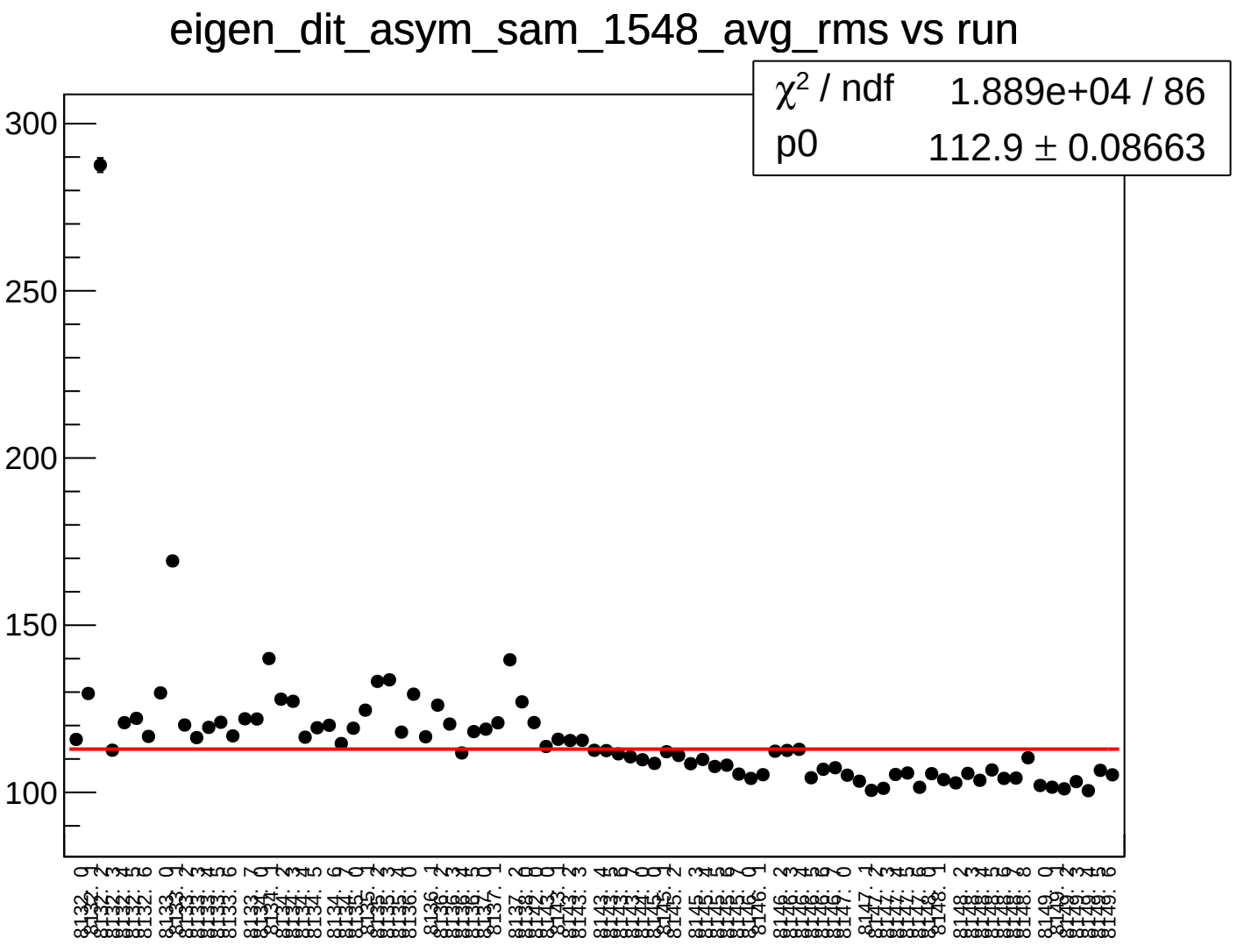
dit_asym_sam_1548_avg_rms vs run

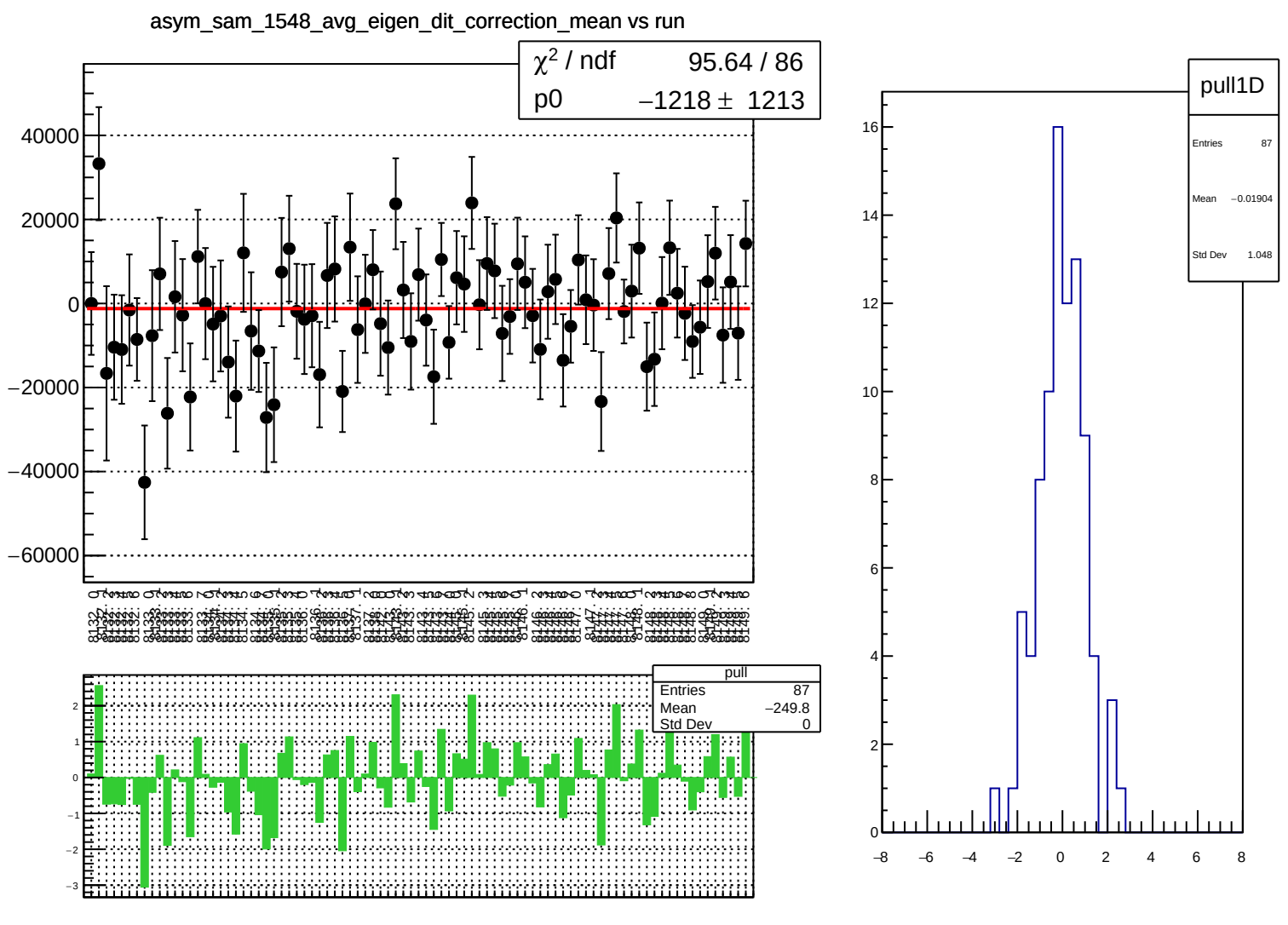


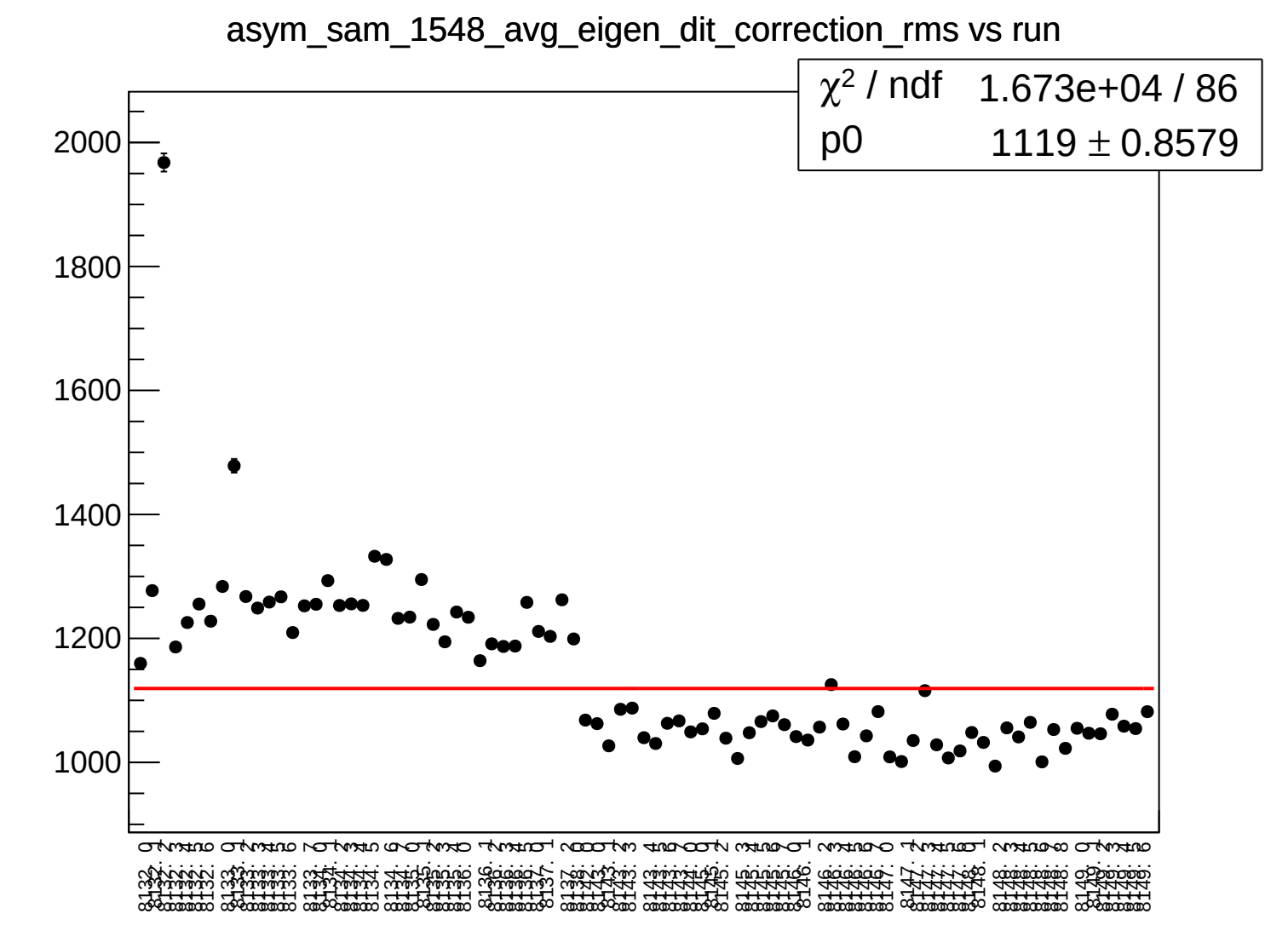

asym_sam_1548_avg_dit_correction_mean vs run
χ² / ndf 95.64 / 86
p0 −1218 ± 1213
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −249.8
Std Dev 0
pull1D
Entries 87
Mean −0.01904
Std Dev 1.048

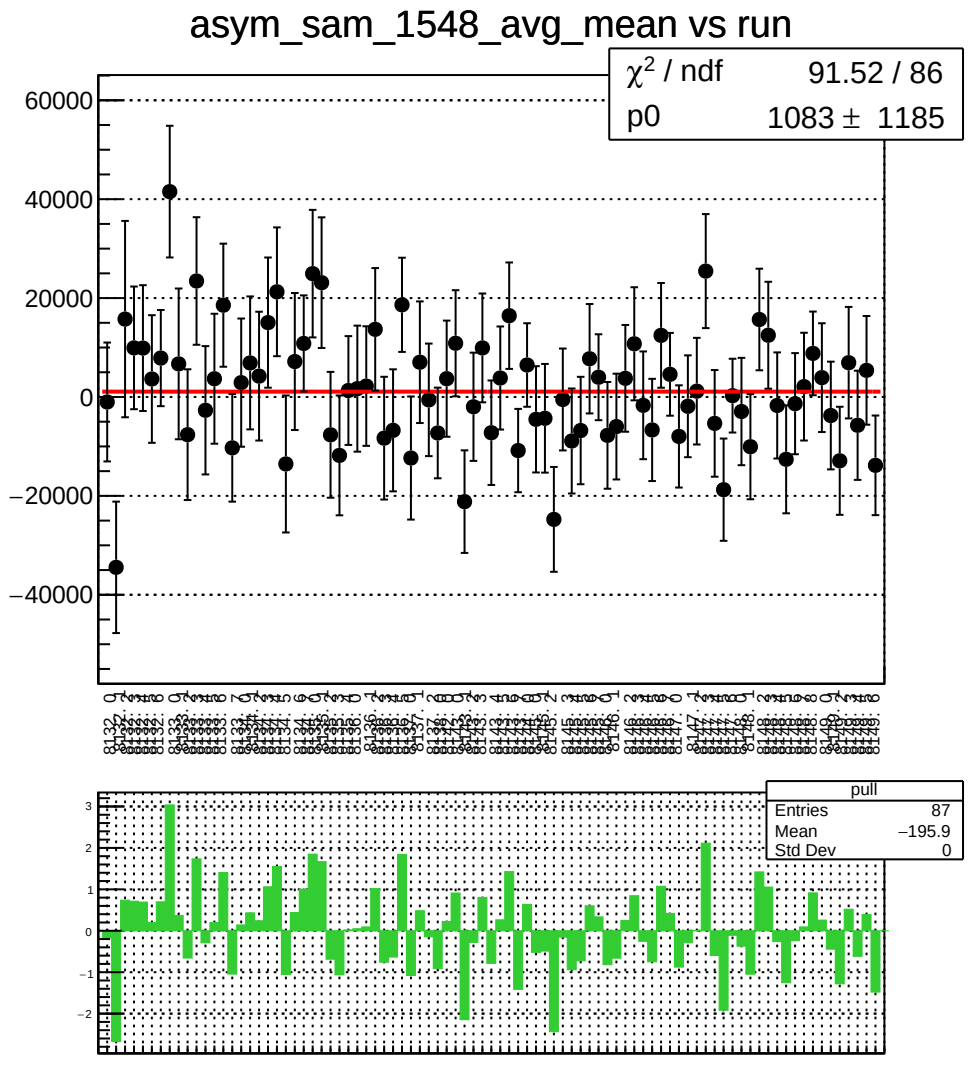

asym_sam_1548_avg_dit_correction_rms vs run
χ² / ndf 1.673e+04 / 86
p0 1119 ± 0.8579
2000
1800
1600
1400
1200
1000

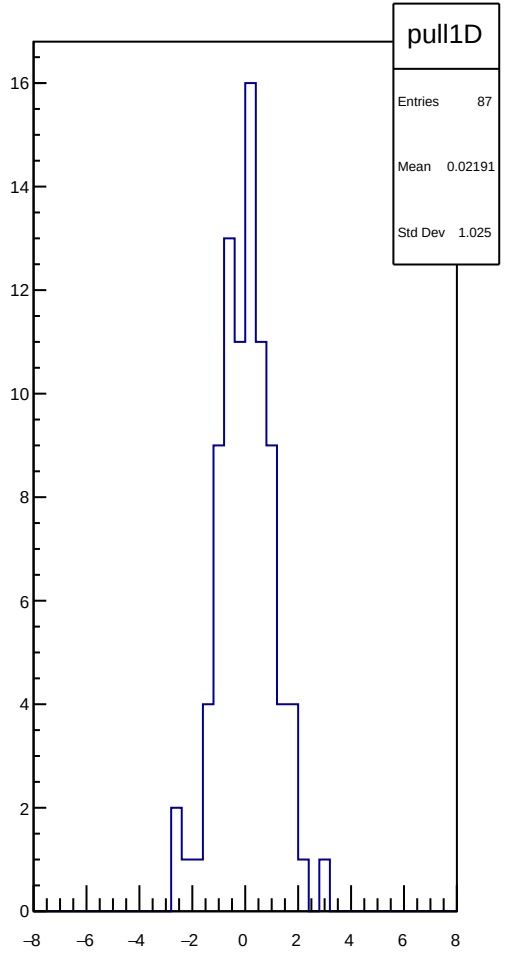

eigen_dit_asym_sam_1548_avg_mean vs run
χ² / ndf 126.7 / 86
p0 −125.4 ± 122.5
4000
2000
0
−2000
−4000
pull
Entries 87
Mean 279.2
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean 0.01834
Std Dev 1.206
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

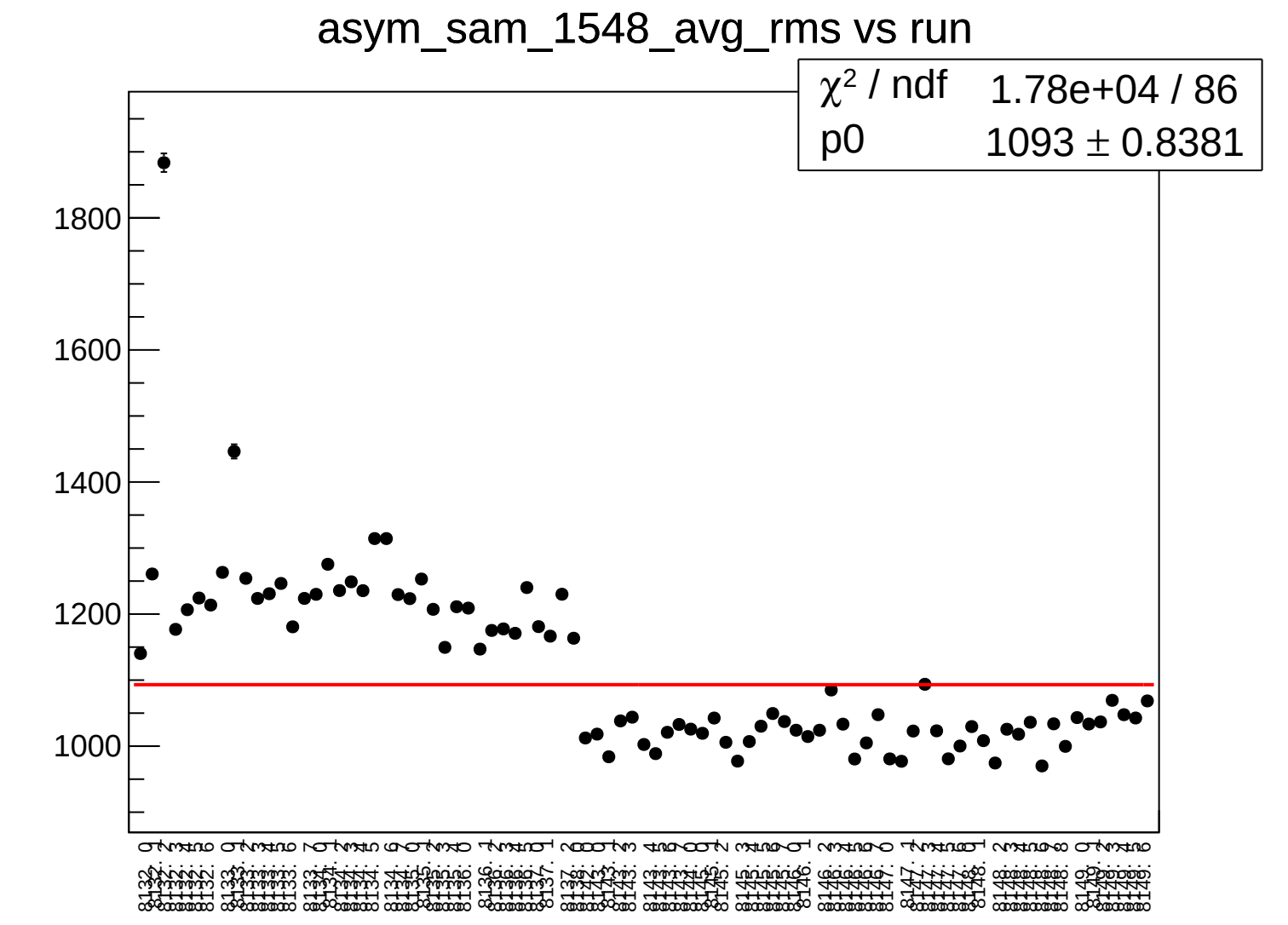

eigen_dit_asym_sam_1548_avg_rms vs run
χ² / ndf 1.889e+04 / 86
p0 112.9 ± 0.08663
300
250
200
150
100

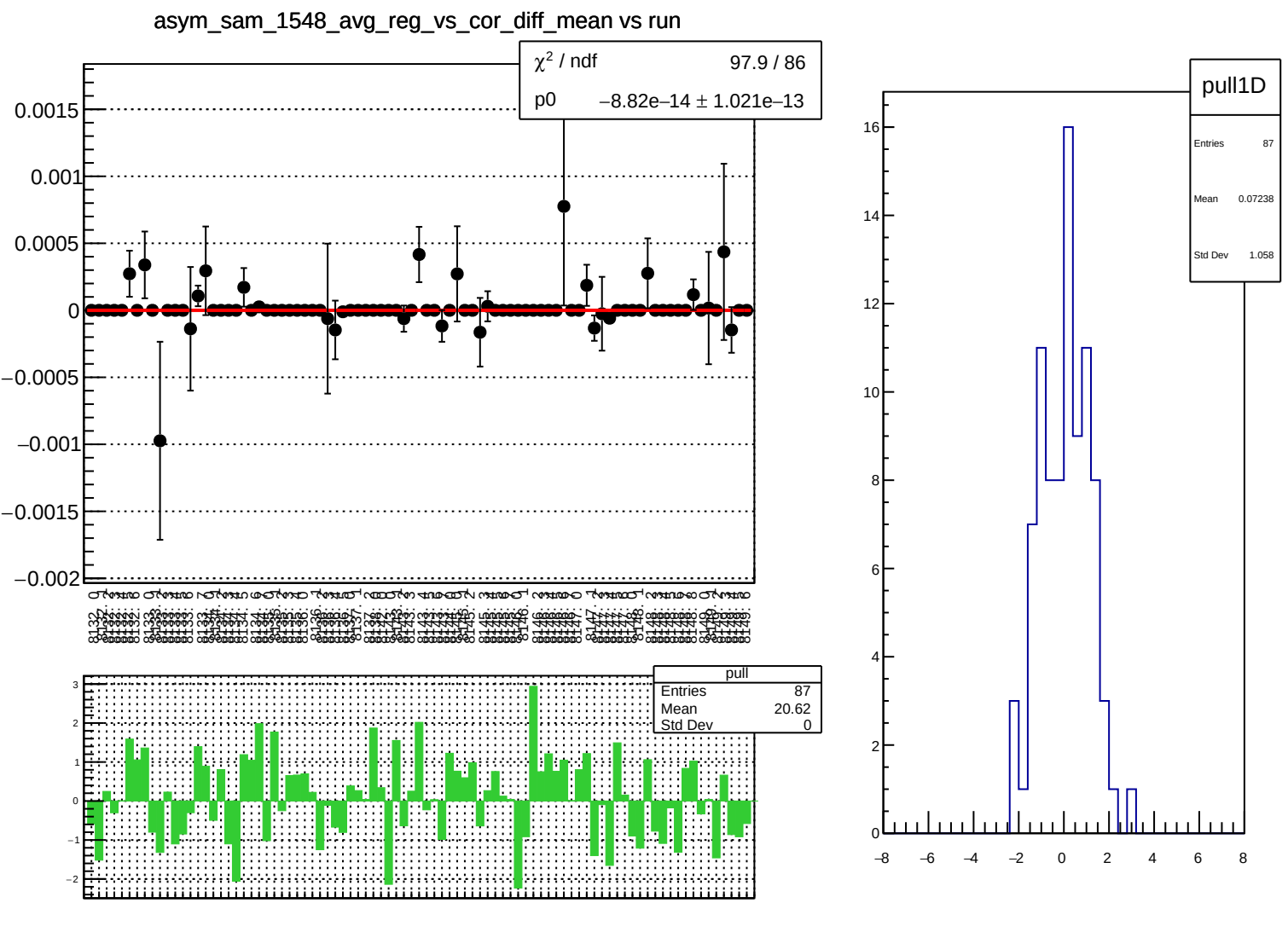

asym_sam_1548_avg_eigen_dit_correction_mean vs run
χ² / ndf 95.64 / 86
p0 −1218 ± 1213
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −249.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean −0.01904
Std Dev 1.048
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

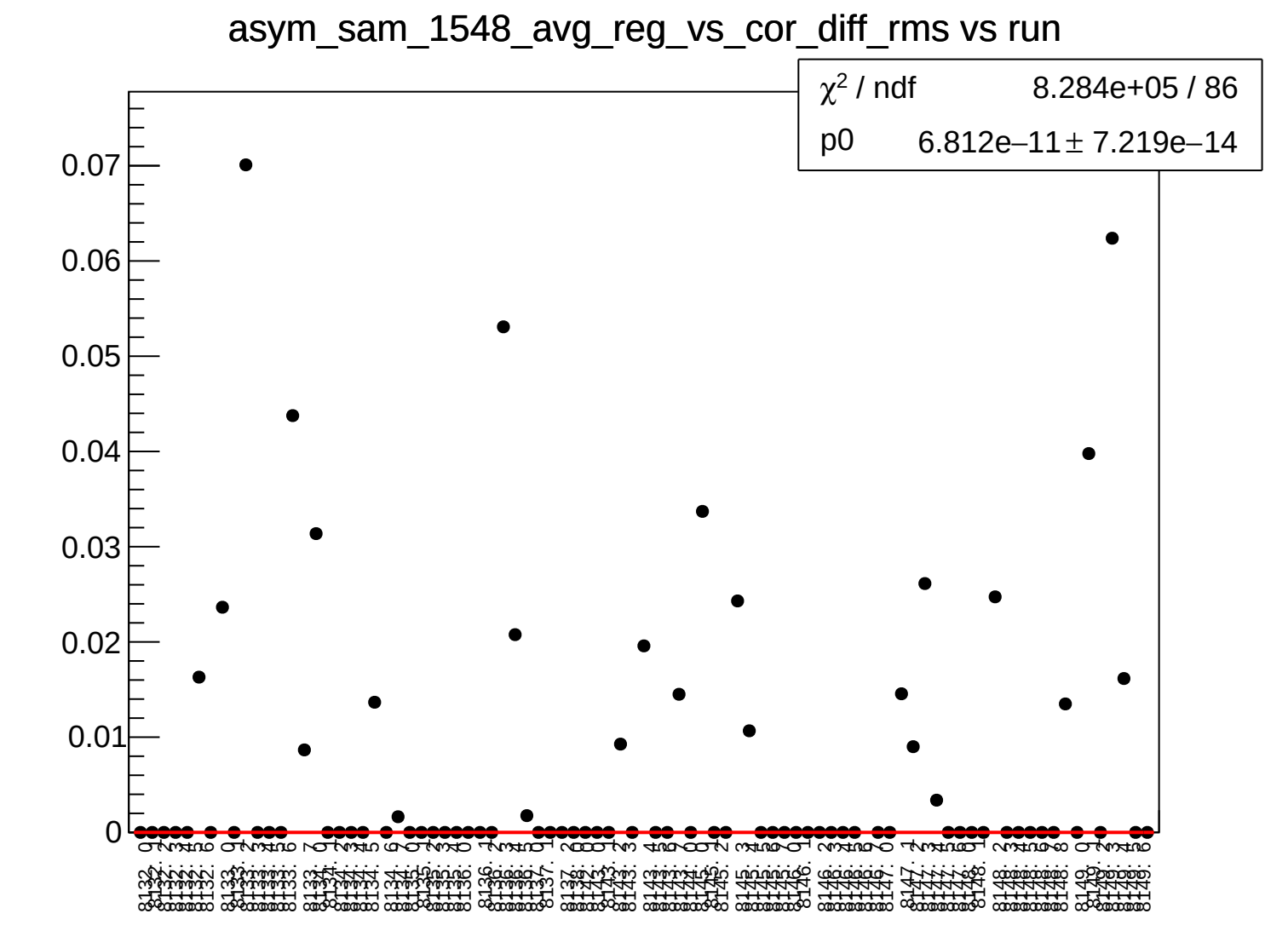

asym_sam_1548_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.673e+04 / 86
p0 1119 ± 0.8579
2000
1800
1600
1400
1200
1000

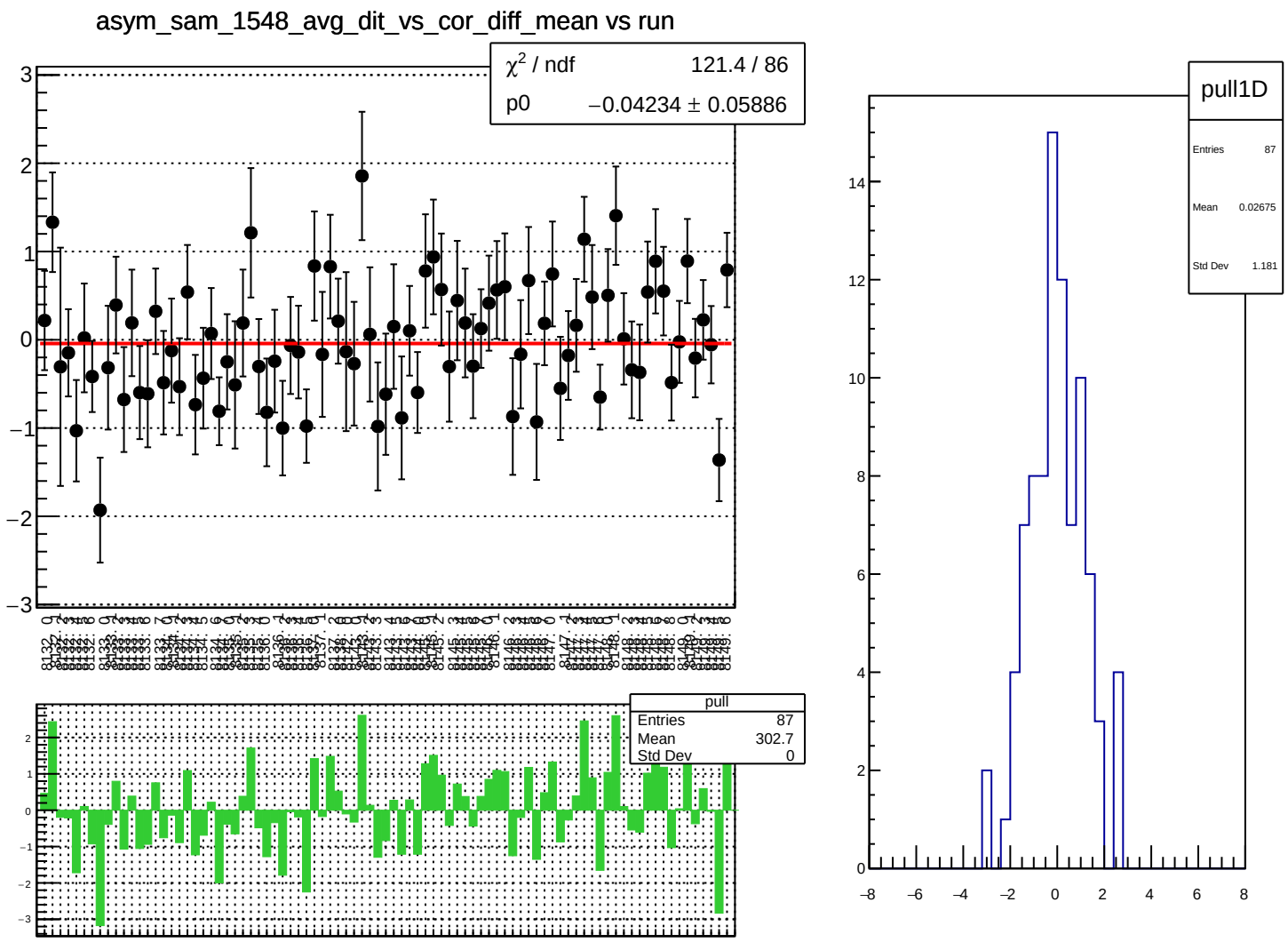

asym_sam_1548_avg_mean vs run
χ² / ndf 91.52 / 86
p0 1083 ± 1185
60000
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −195.9
Std Dev 0
3
2
1
0
−1
−2

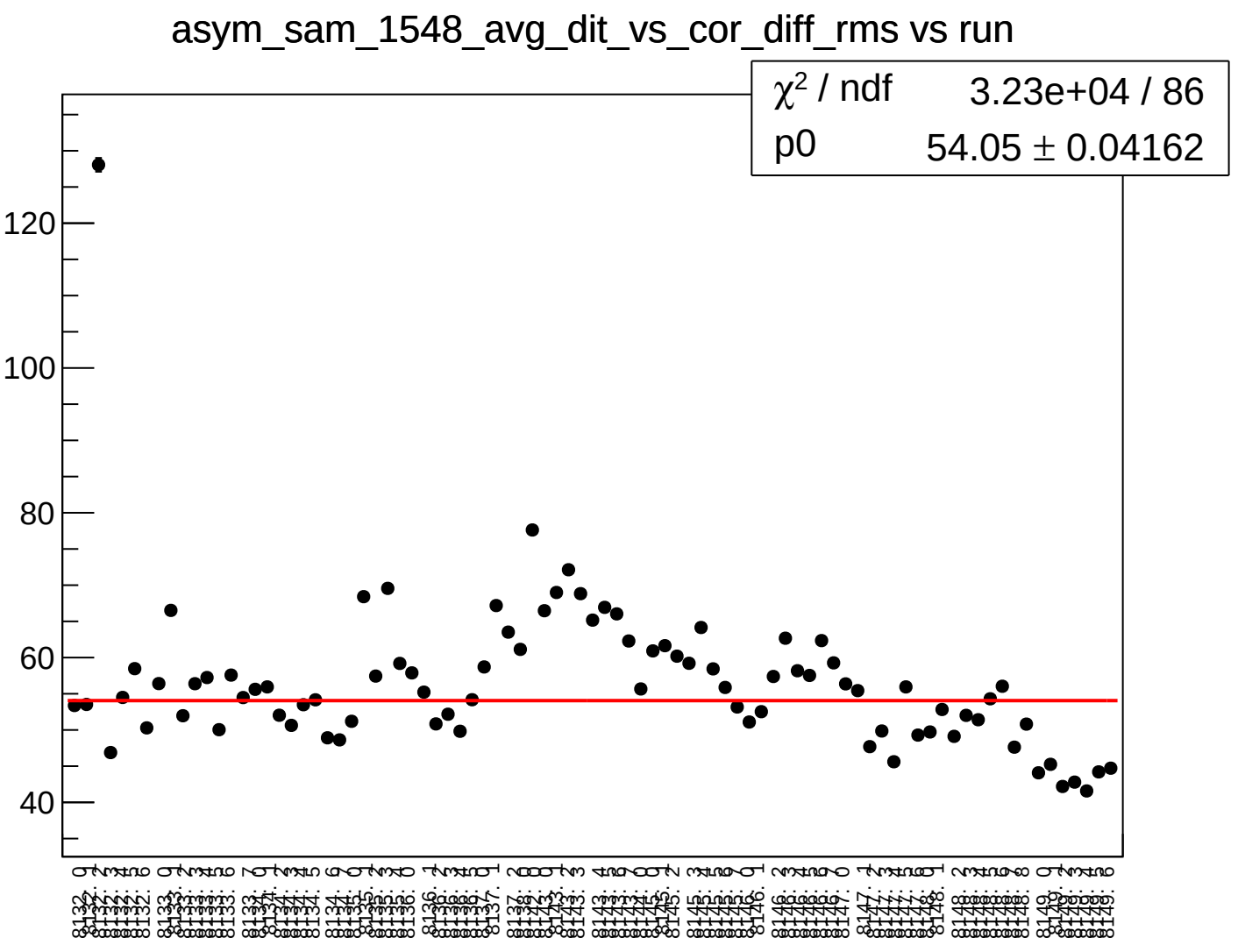

pull1D
Entries 87
Mean 0.02191
Std Dev 1.025
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

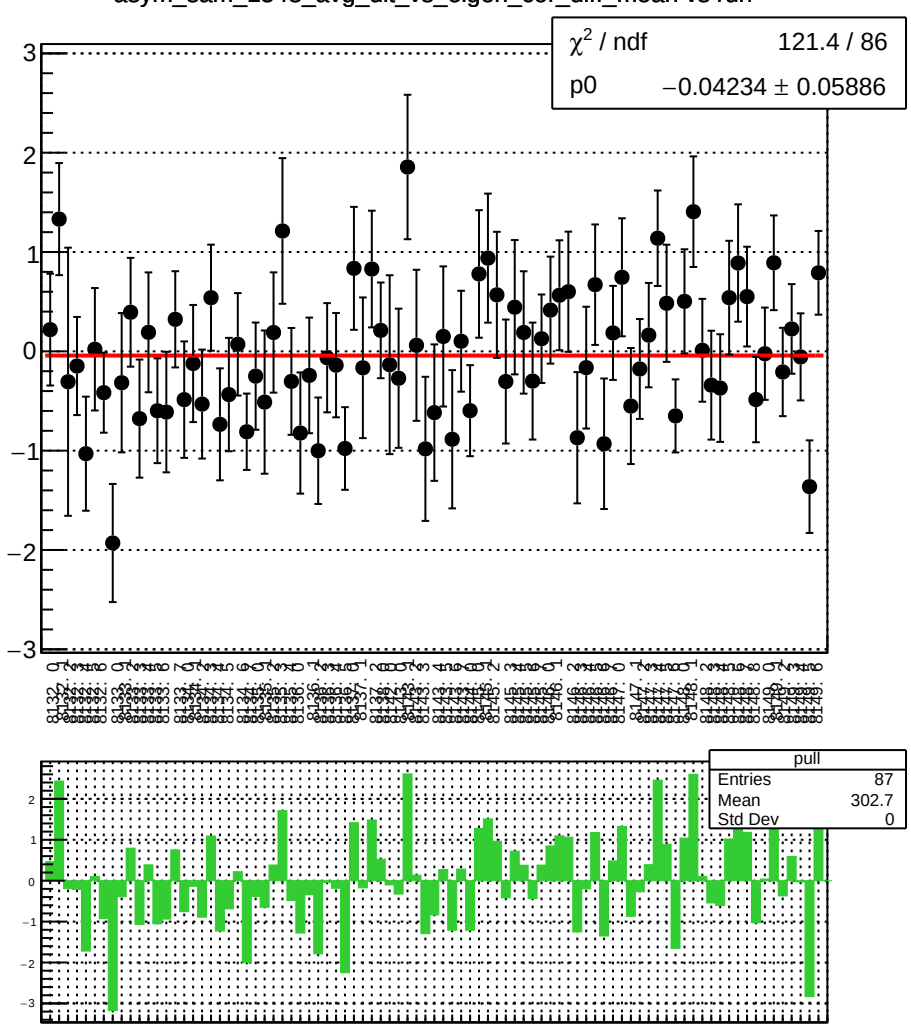

asym_sam_1548_avg_rms vs run
χ² / ndf 1.78e+04 / 86
p0 1093 ± 0.8381
1800
1600
1400
1200
1000

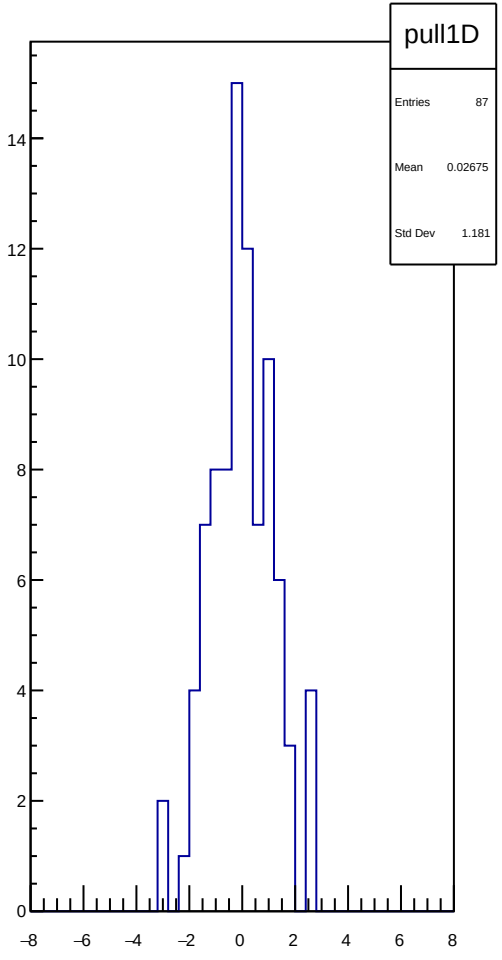

asym_sam_1548_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 97.9 / 86
p0 −8.82e−14 ± 1.021e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 87
Mean 20.62
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.07238
Std Dev 1.058
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

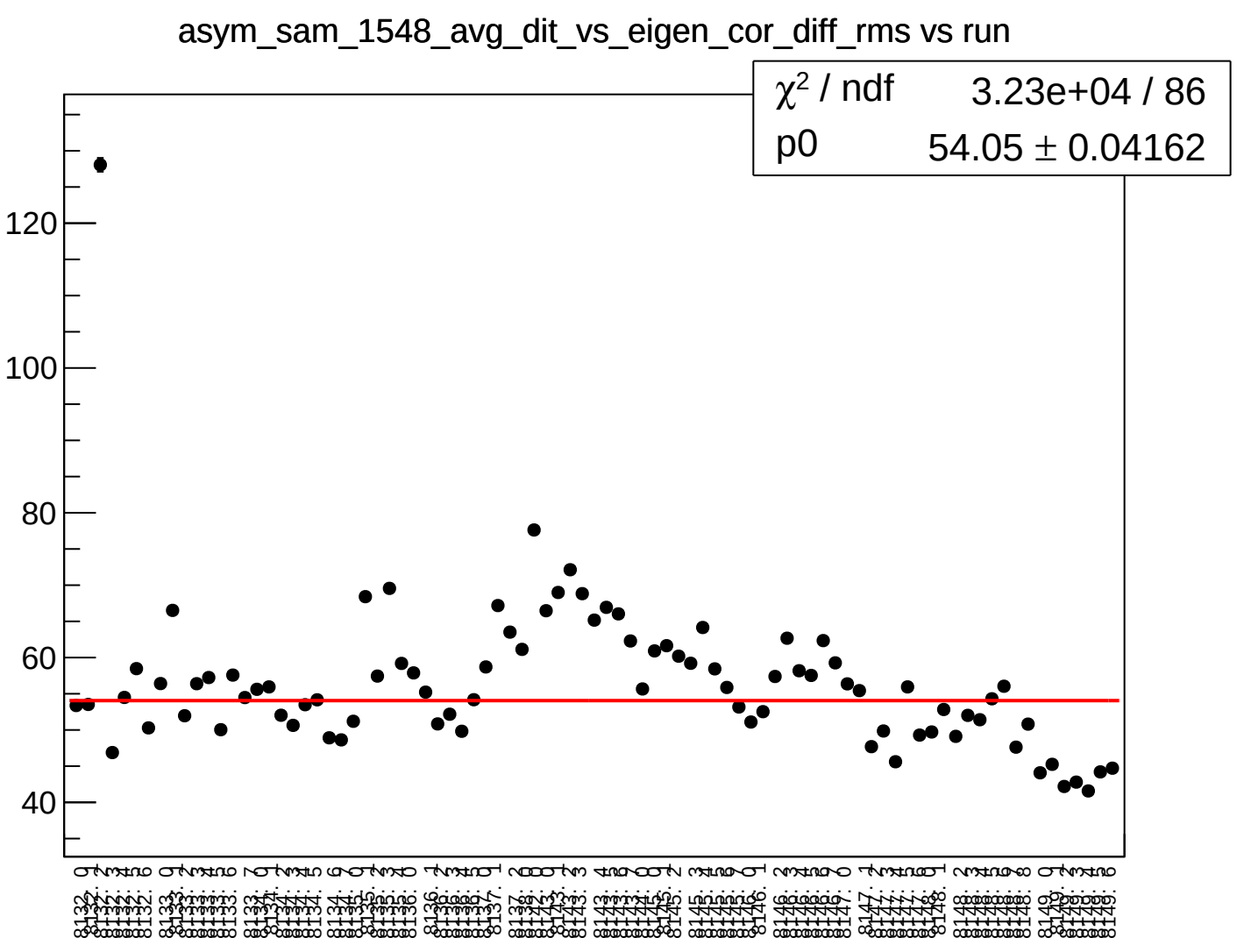

asym_sam_1548_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.284e+05 / 86
p0 6.812e−11 ± 7.219e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

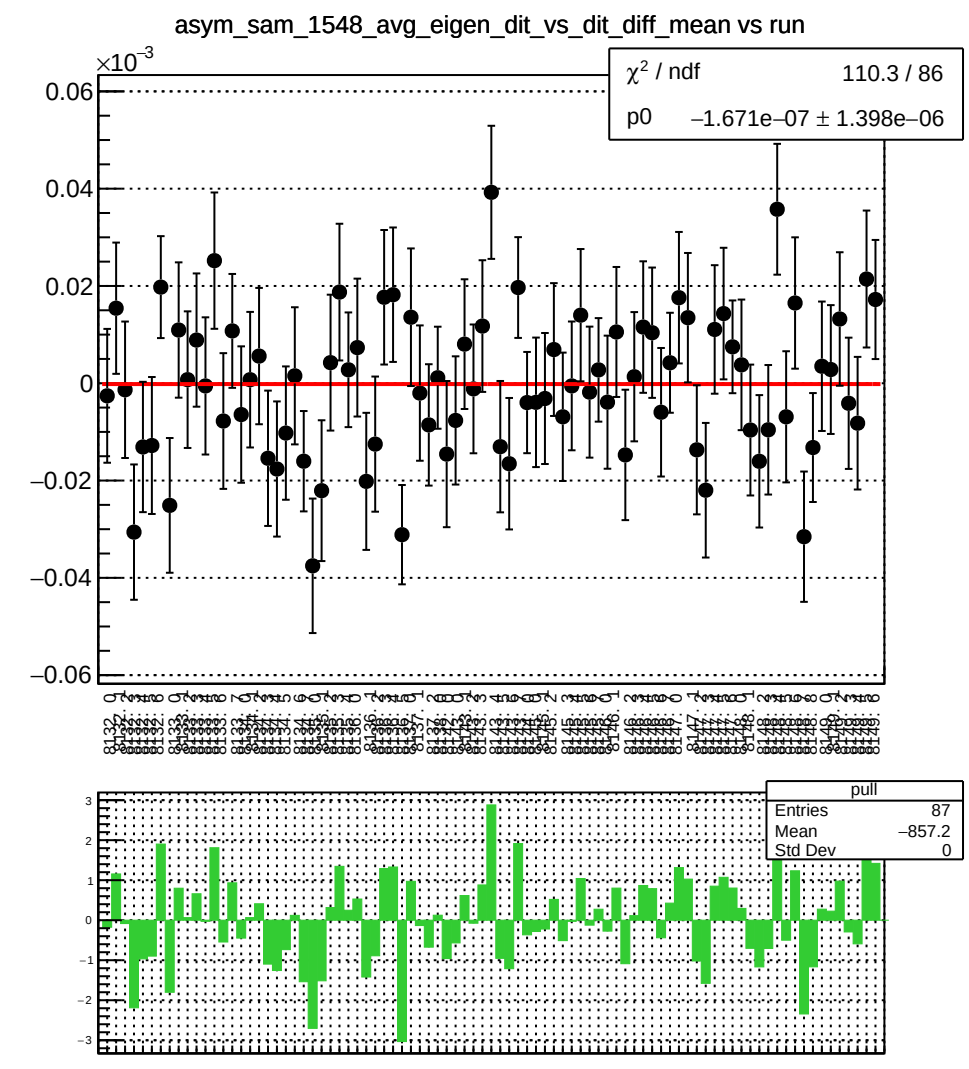

asym_sam_1548_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 121.4 / 86
p0 −0.04234 ± 0.05886
pull
Entries 87
Mean 302.7
Std Dev 0
pull1D
Entries 87
Mean 0.02675
Std Dev 1.181

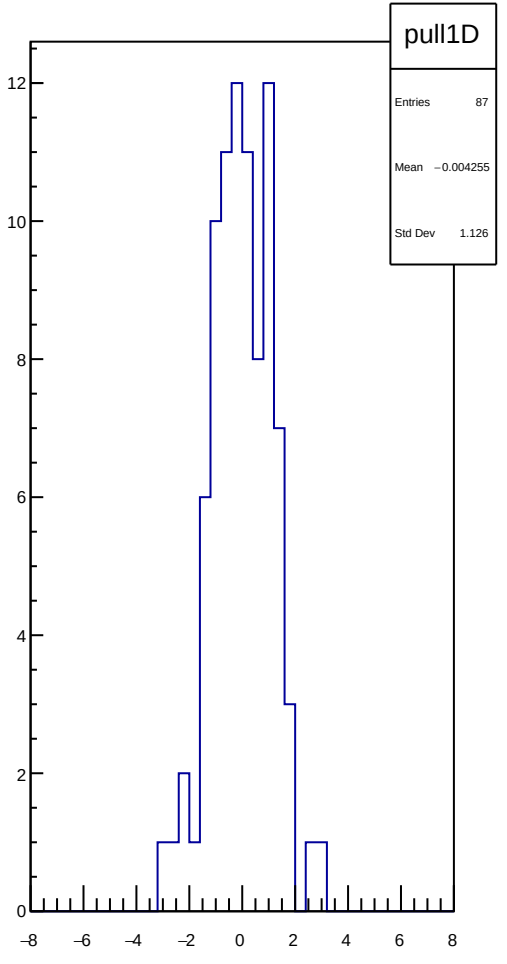

asym_sam_1548_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.23e+04 / 86
p0 54.05 ± 0.04162
120
100
80
60
40

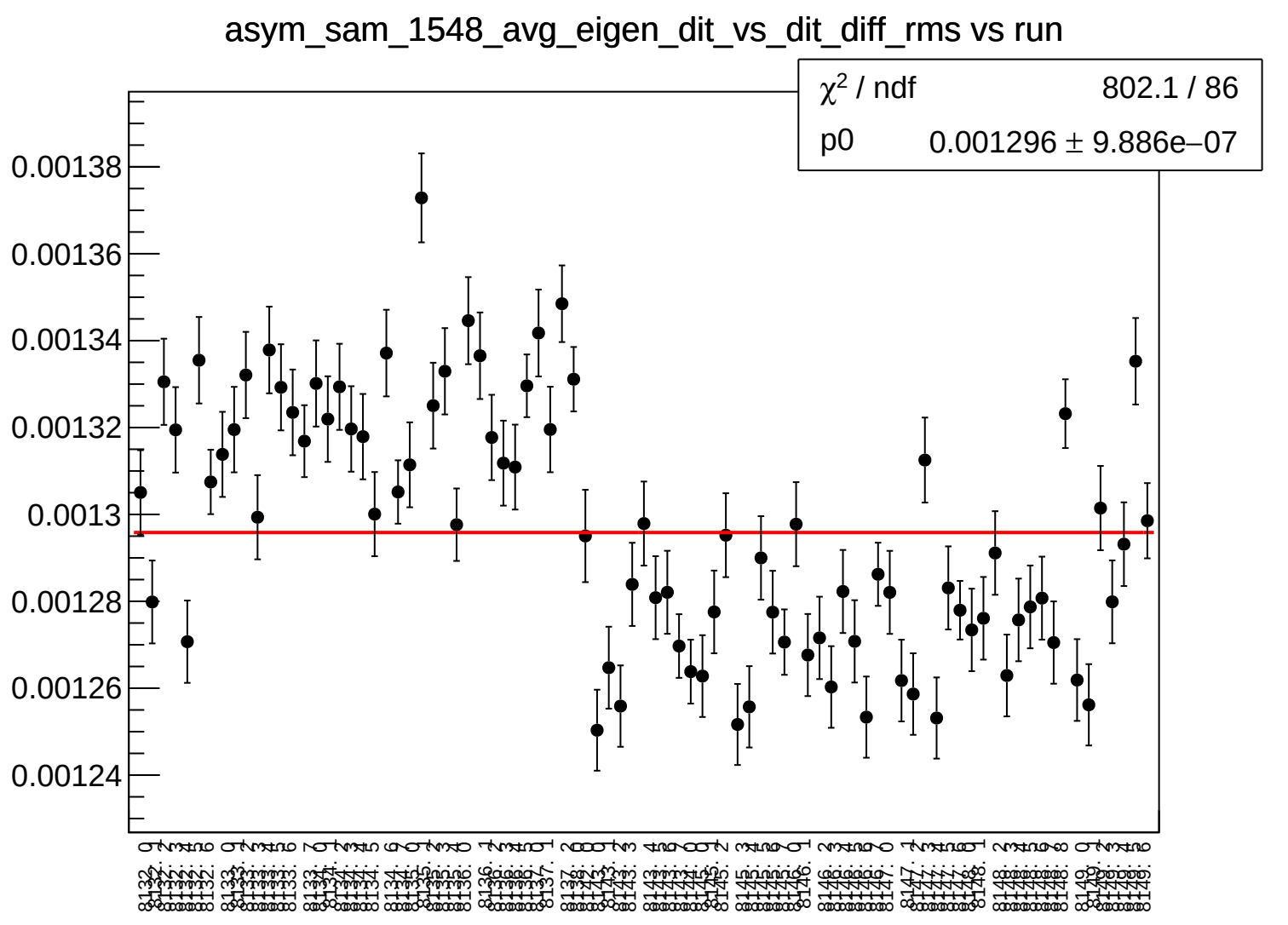

asym_sam_1548_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 121.4 / 86
p0 −0.04234 ± 0.05886
pull
Entries 87
Mean 302.7
Std Dev 0

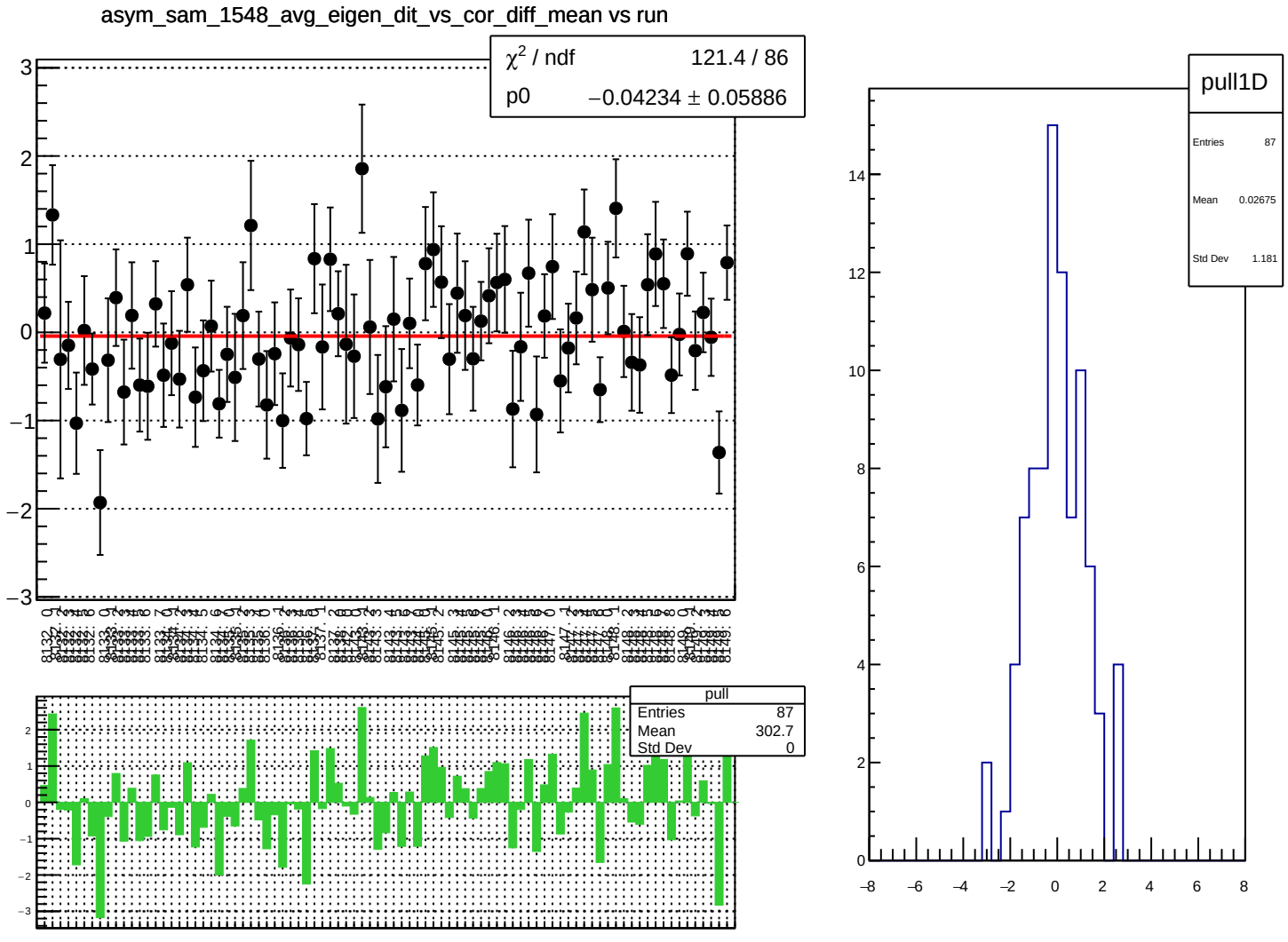

pull1D
Entries 87
Mean 0.02675
Std Dev 1.181

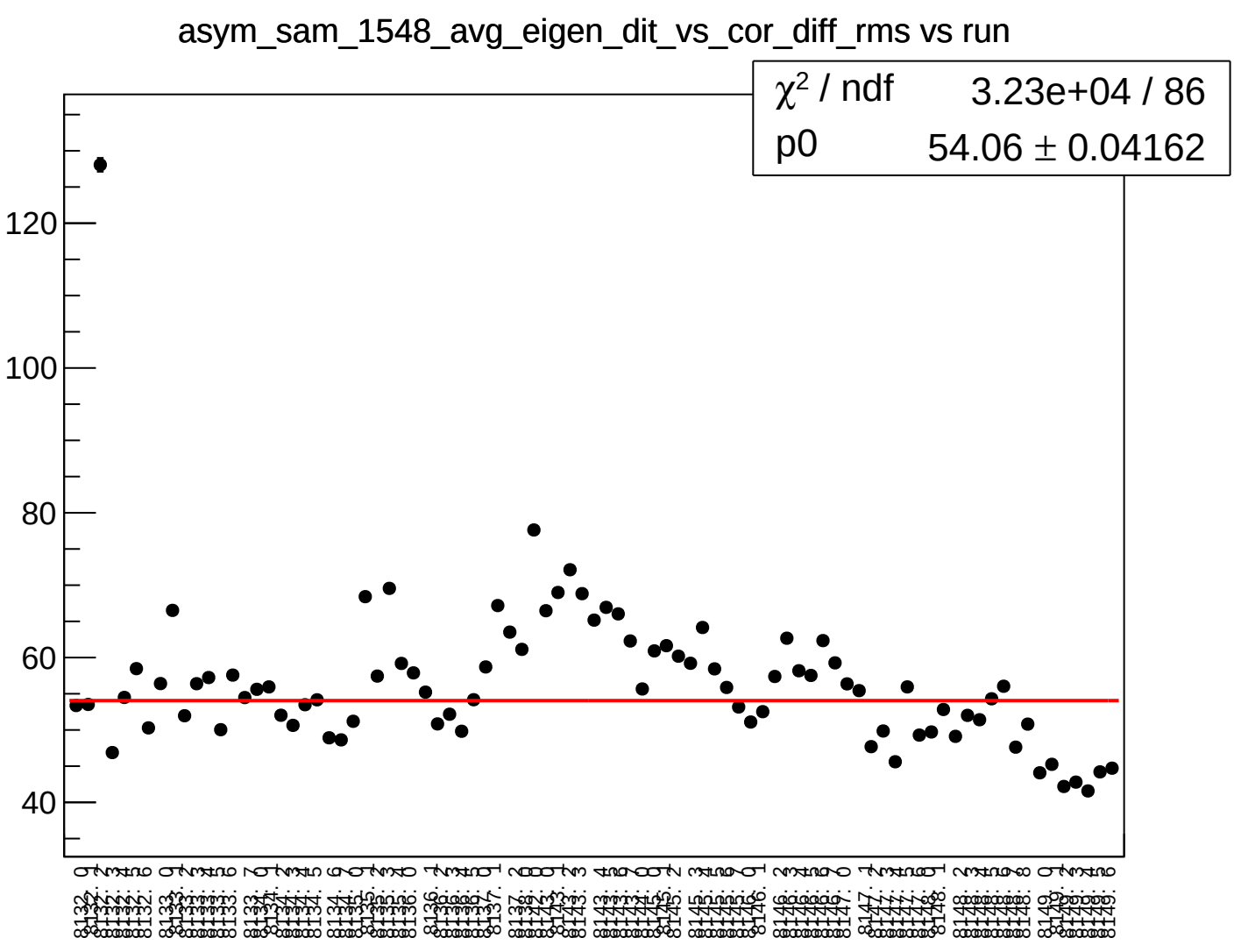

asym_sam_1548_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.23e+04 / 86
p0 54.05 ± 0.04162
120
100
80
60
40

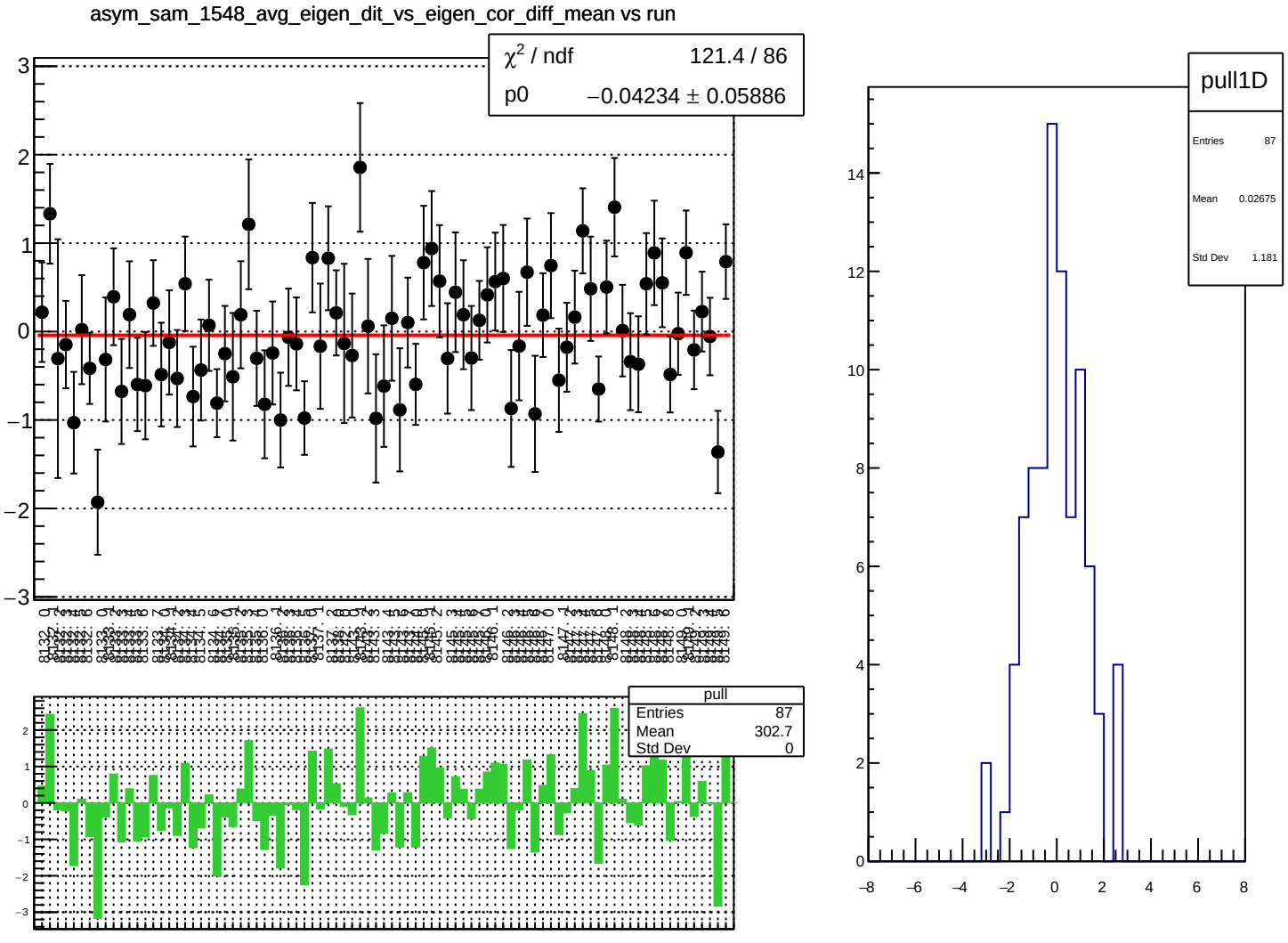

asym_sam_1548_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 110.3 / 86
p0 −1.671e−07 ± 1.398e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 87
Mean −857.2
Std Dev 0
3
2
1
0
−1
−2
−3

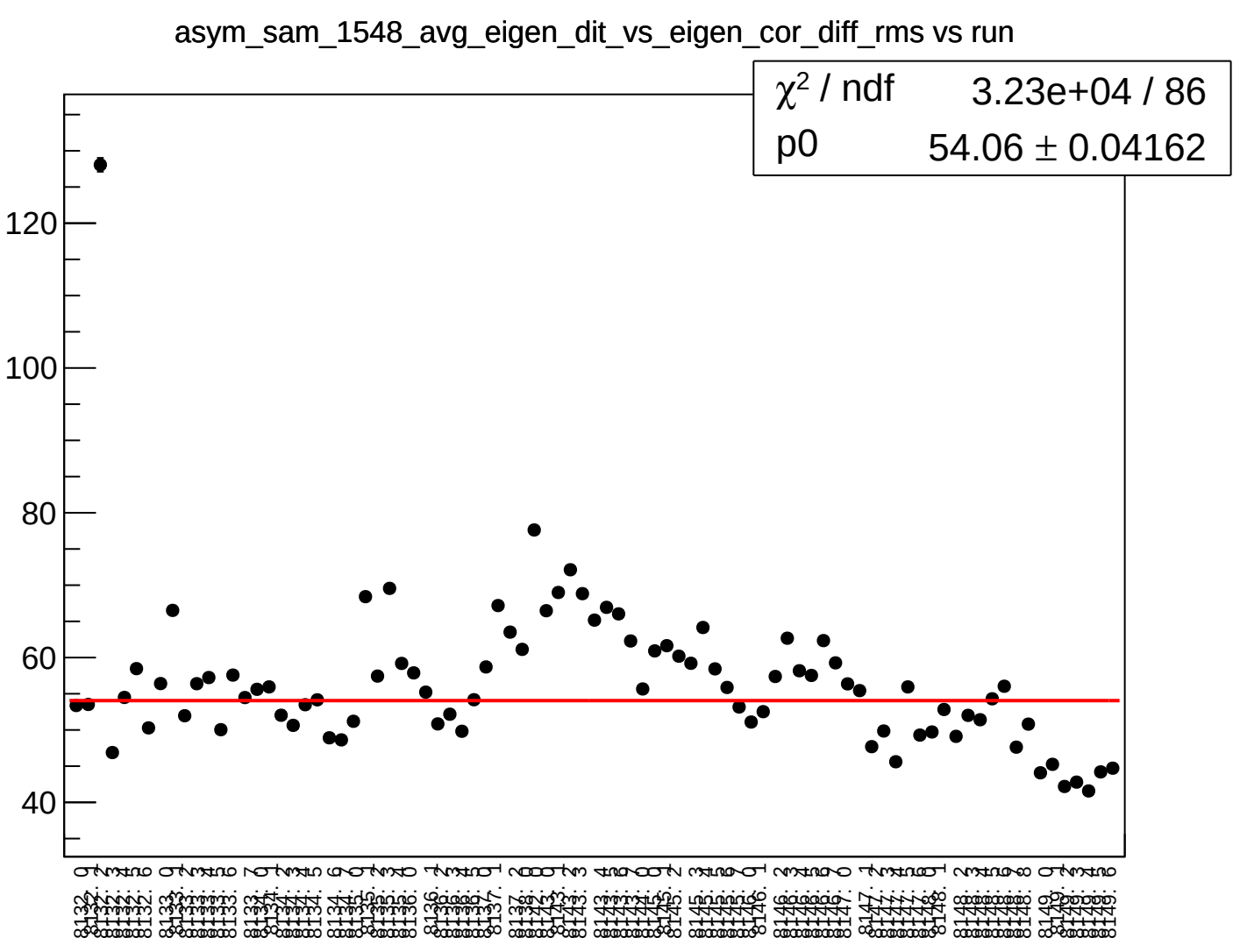

pull1D
Entries 87
Mean −0.004255
Std Dev 1.126
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

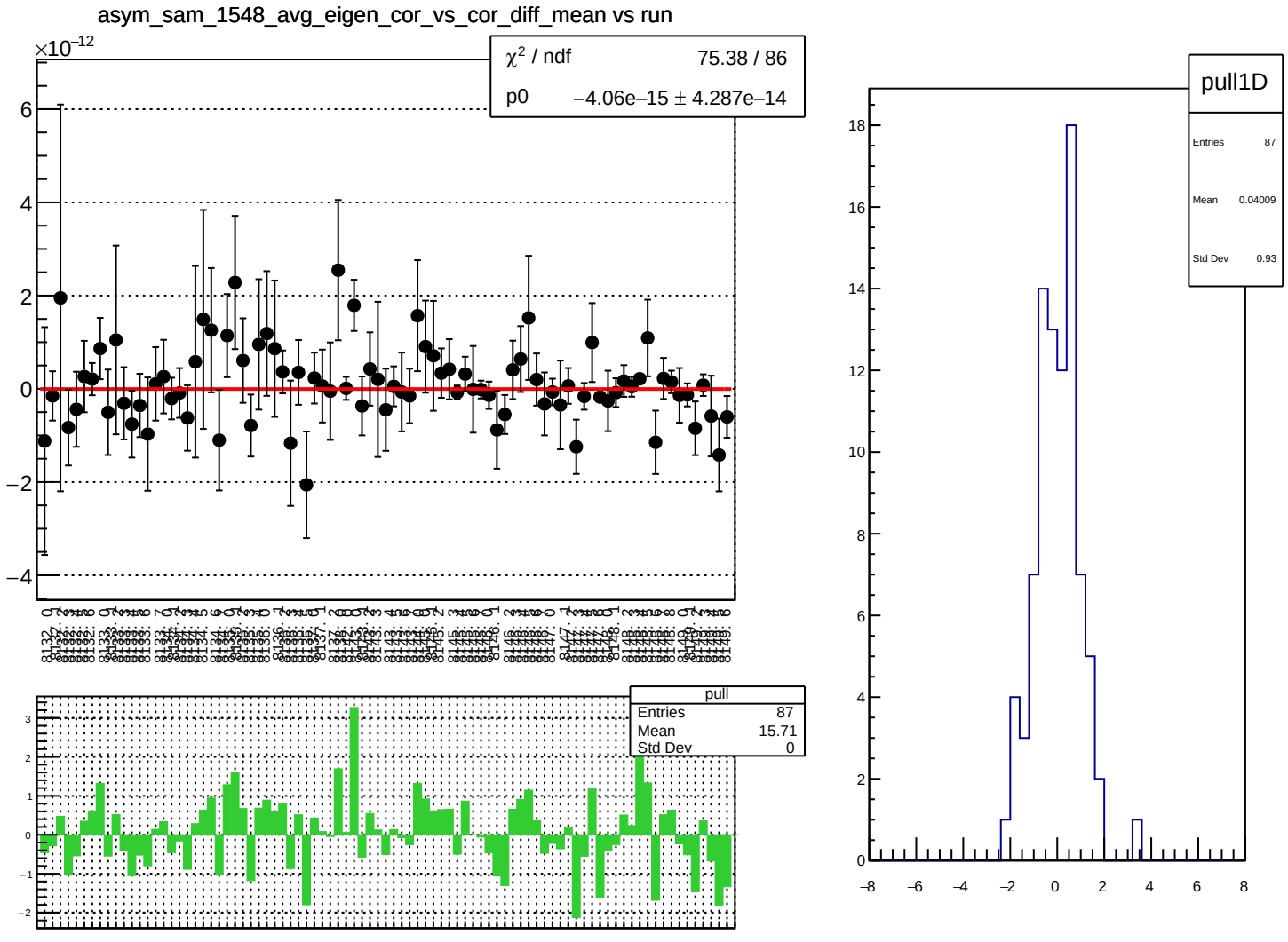

asym_sam_1548_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 802.1 / 86
p0 0.001296 ± 9.886e−07
0.00138
0.00136
0.00134
0.00132
0.0013
0.00128
0.00126
0.00124

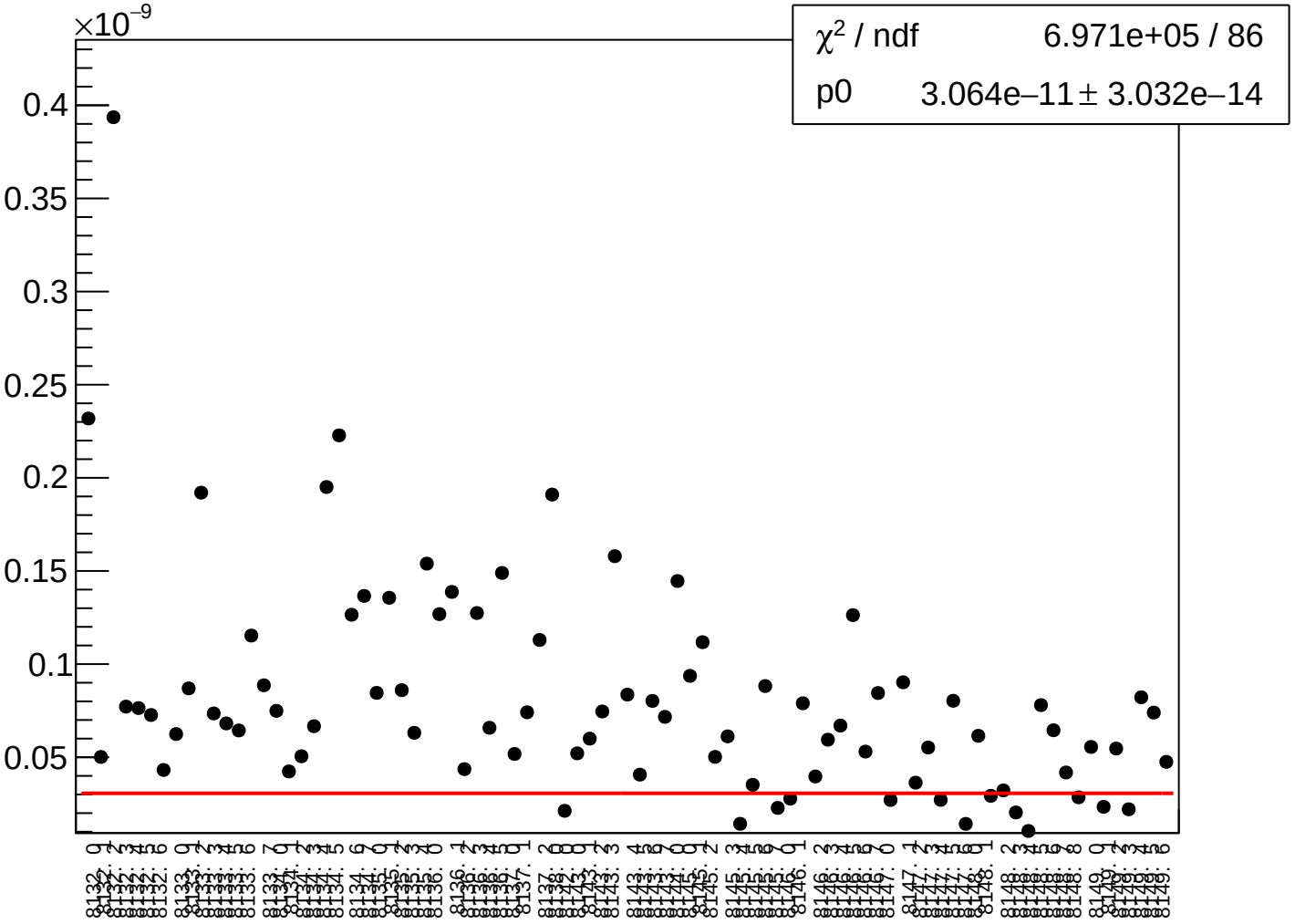

asym_sam_1548_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 121.4 / 86
p0 −0.04234 ± 0.05886
pull
Entries 87
Mean 302.7
Std Dev 0
pull1D
Entries 87
Mean 0.02675
Std Dev 1.181

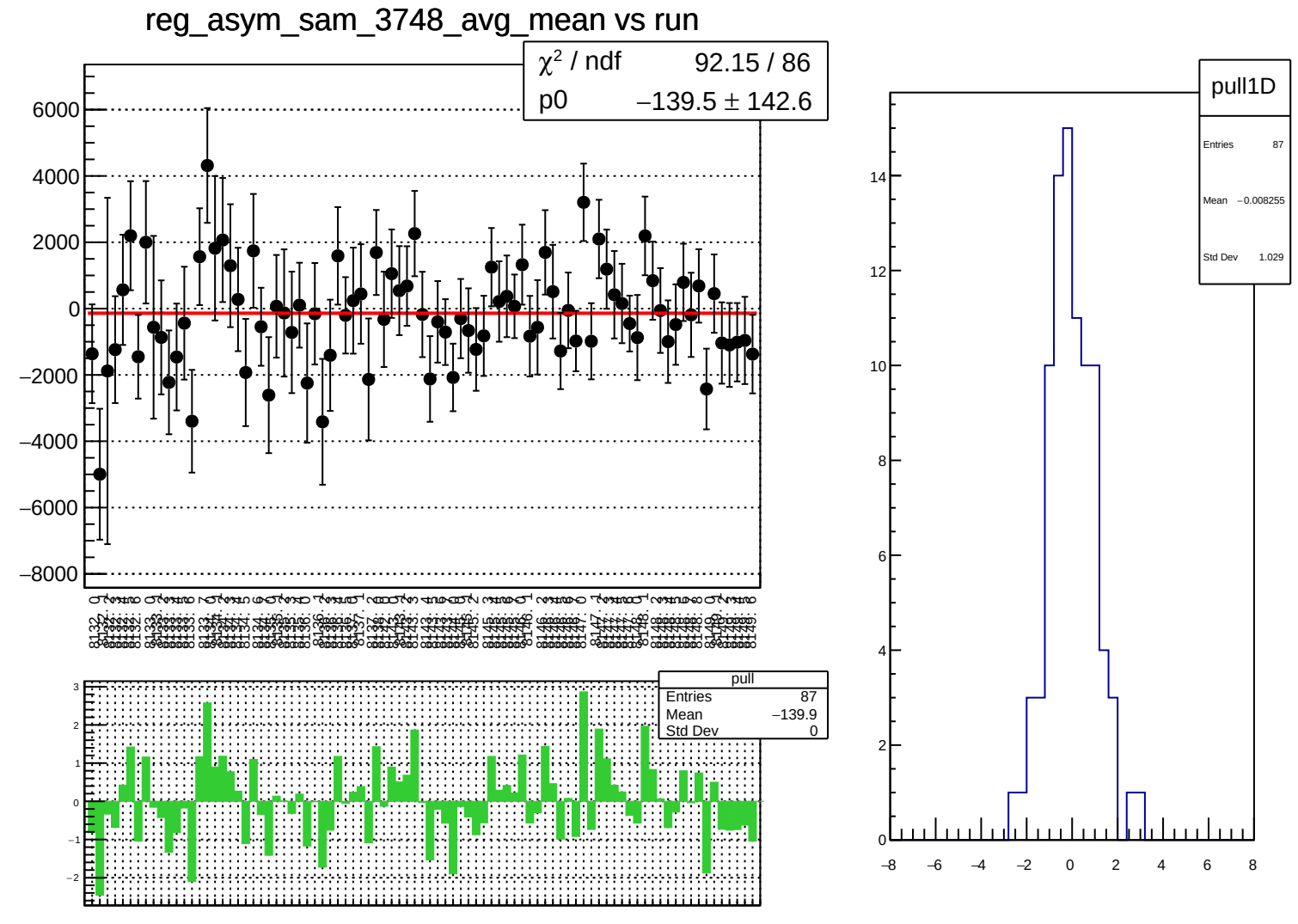

asym_sam_1548_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.23e+04 / 86
p0 54.06 ± 0.04162
120
100
80
60
40

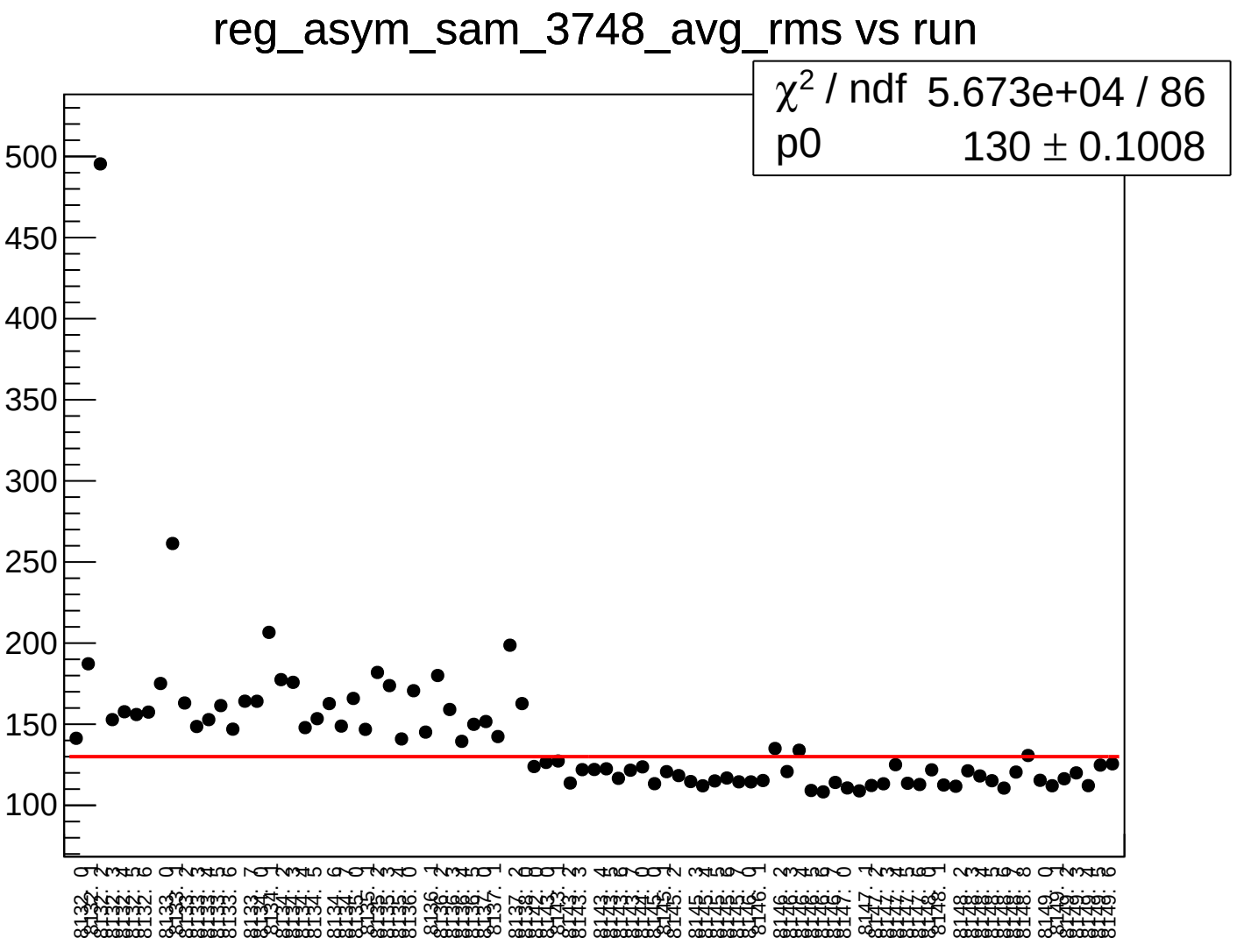

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 121.4 / 86
p0 −0.04234 ± 0.05886
pull
Entries 87
Mean 302.7
Std Dev 0
pull1D
Entries 87
Mean 0.02675
Std Dev 1.181

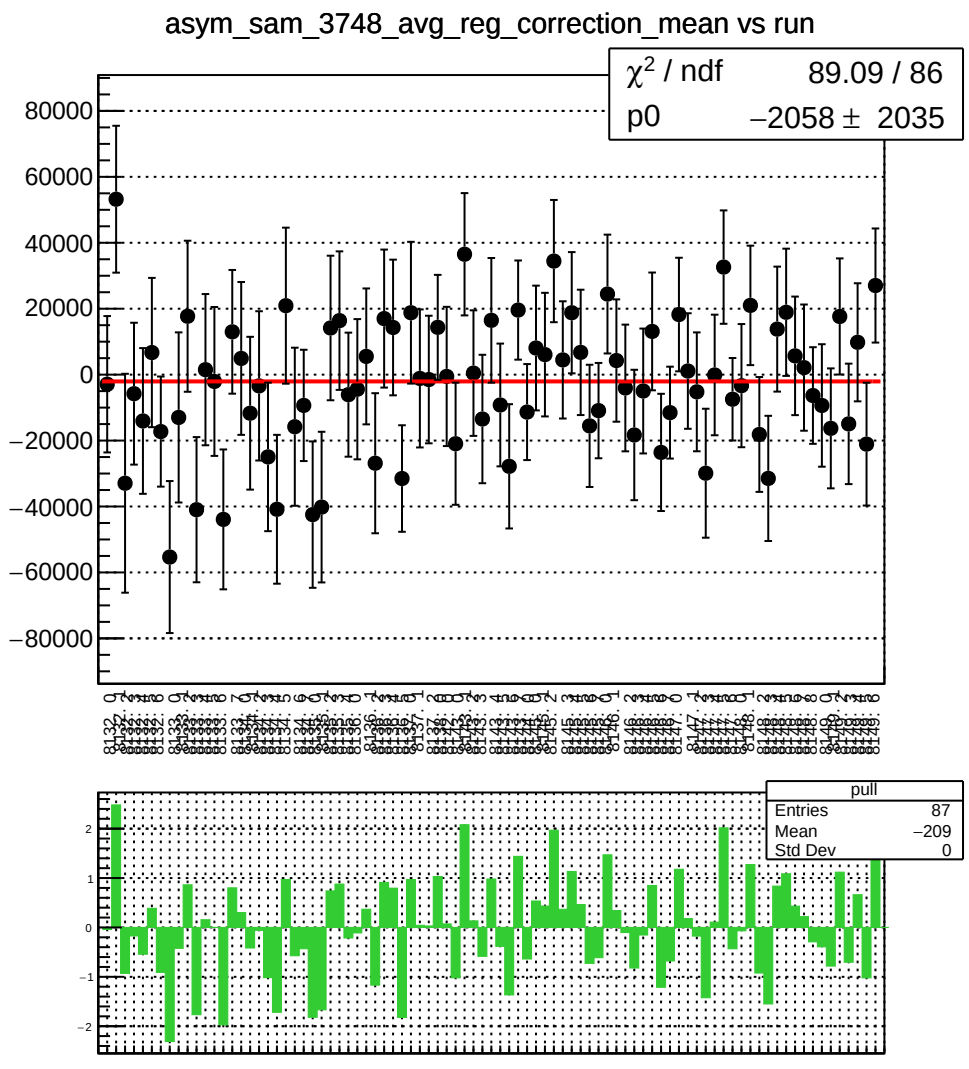

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.23e+04 / 86
p0 54.06 ± 0.04162
120
100
80
60
40

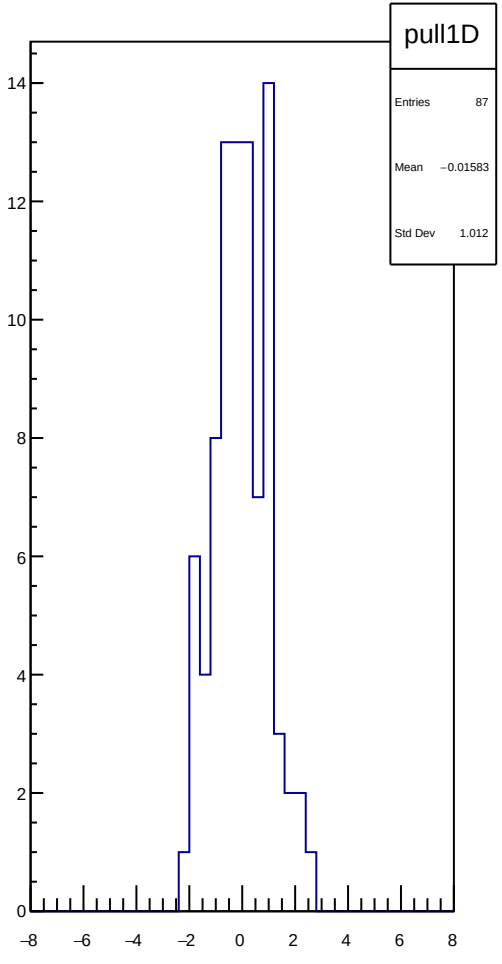

asym_sam_1548_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.38 / 86
p0 −4.06e−15 ± 4.287e−14
pull
Entries 87
Mean −15.71
Std Dev 0
pull1D
Entries 87
Mean 0.04009
Std Dev 0.93

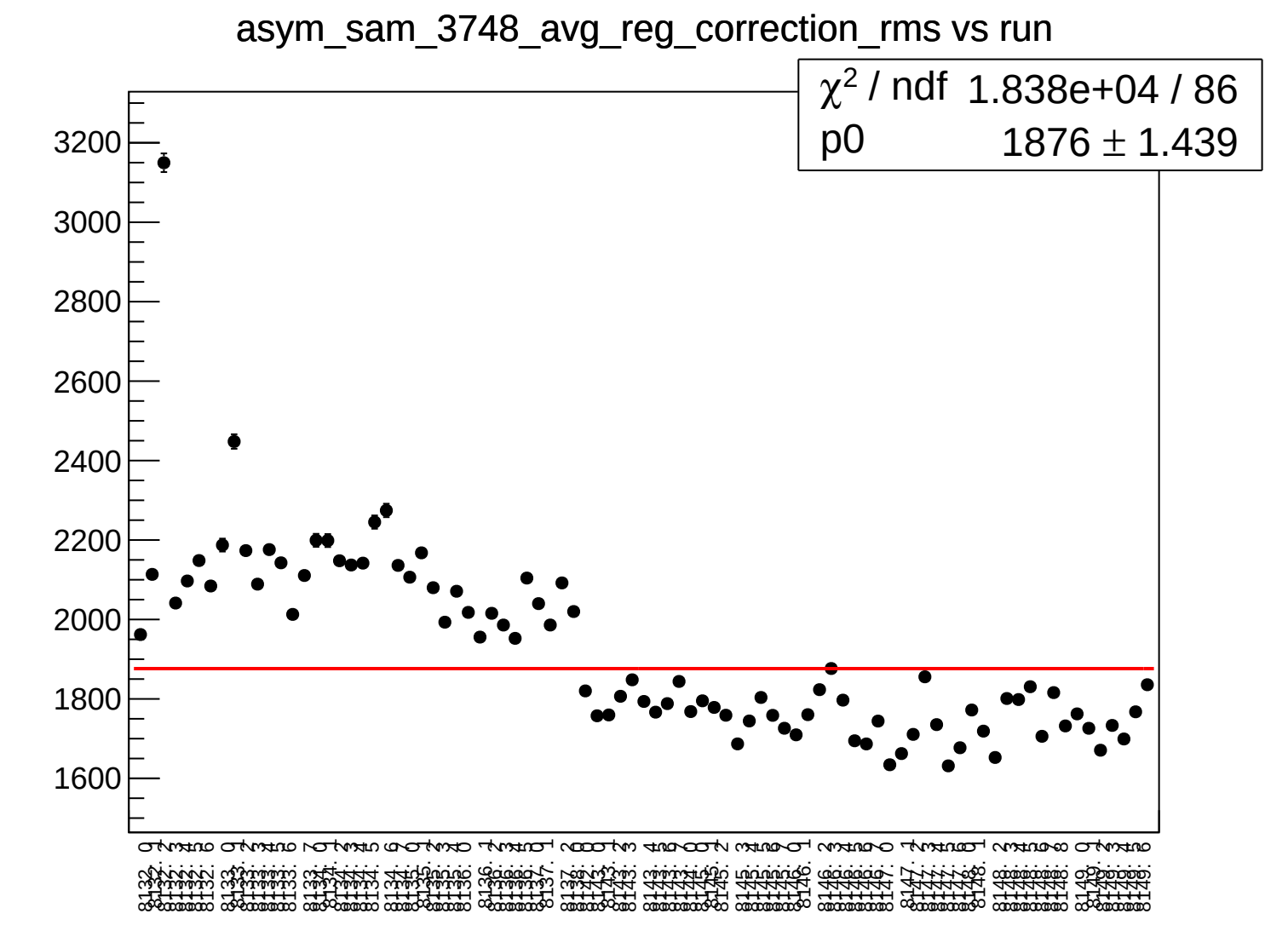

asym_sam_1548_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.971e+05 / 86
p0 3.064e−11 ± 3.032e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

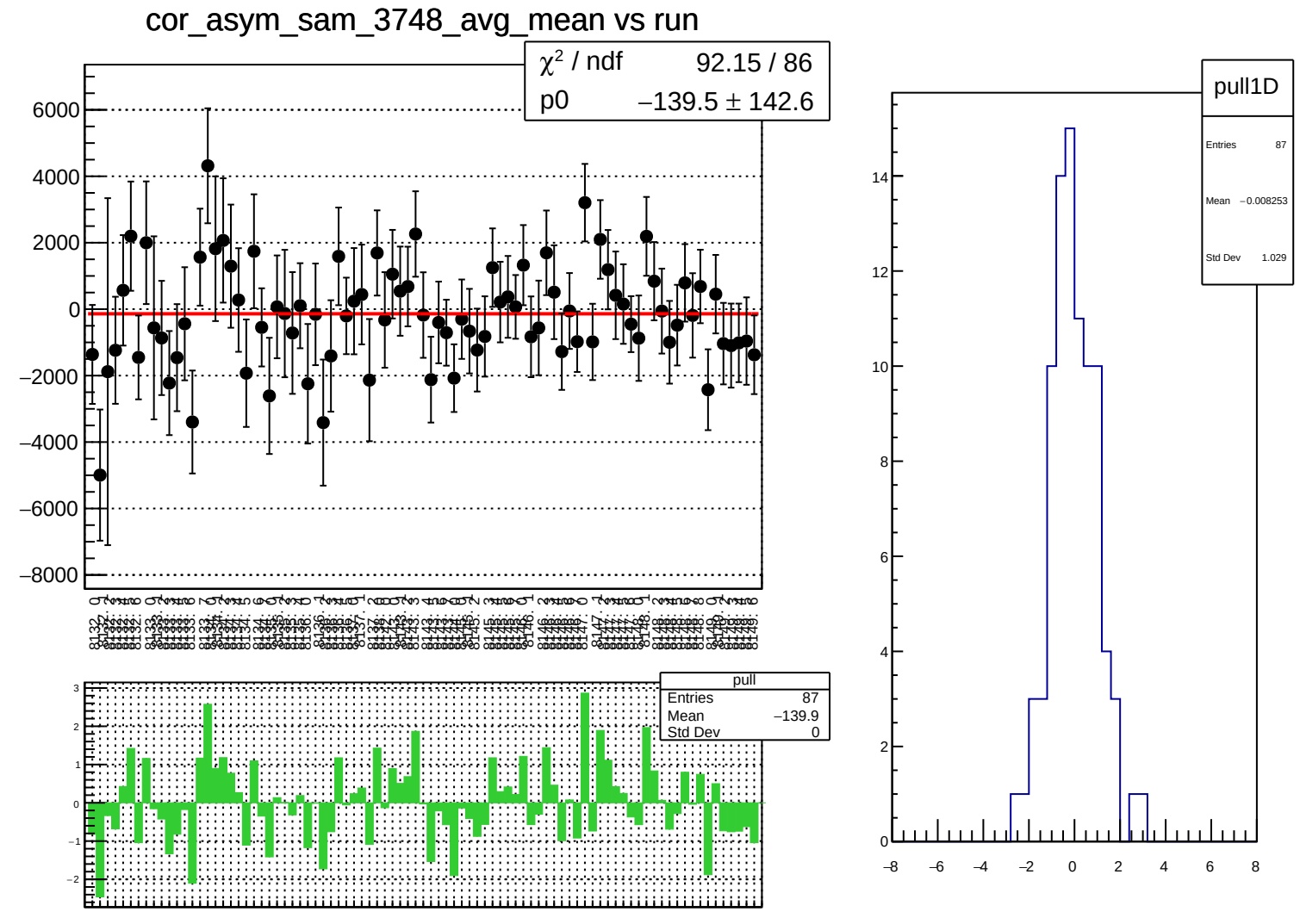

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 92.15 / 86
p0 −139.5 ± 142.6
pull
Entries 87
Mean −139.9
Std Dev 0
pull1D
Entries 87
Mean −0.008255
Std Dev 1.029

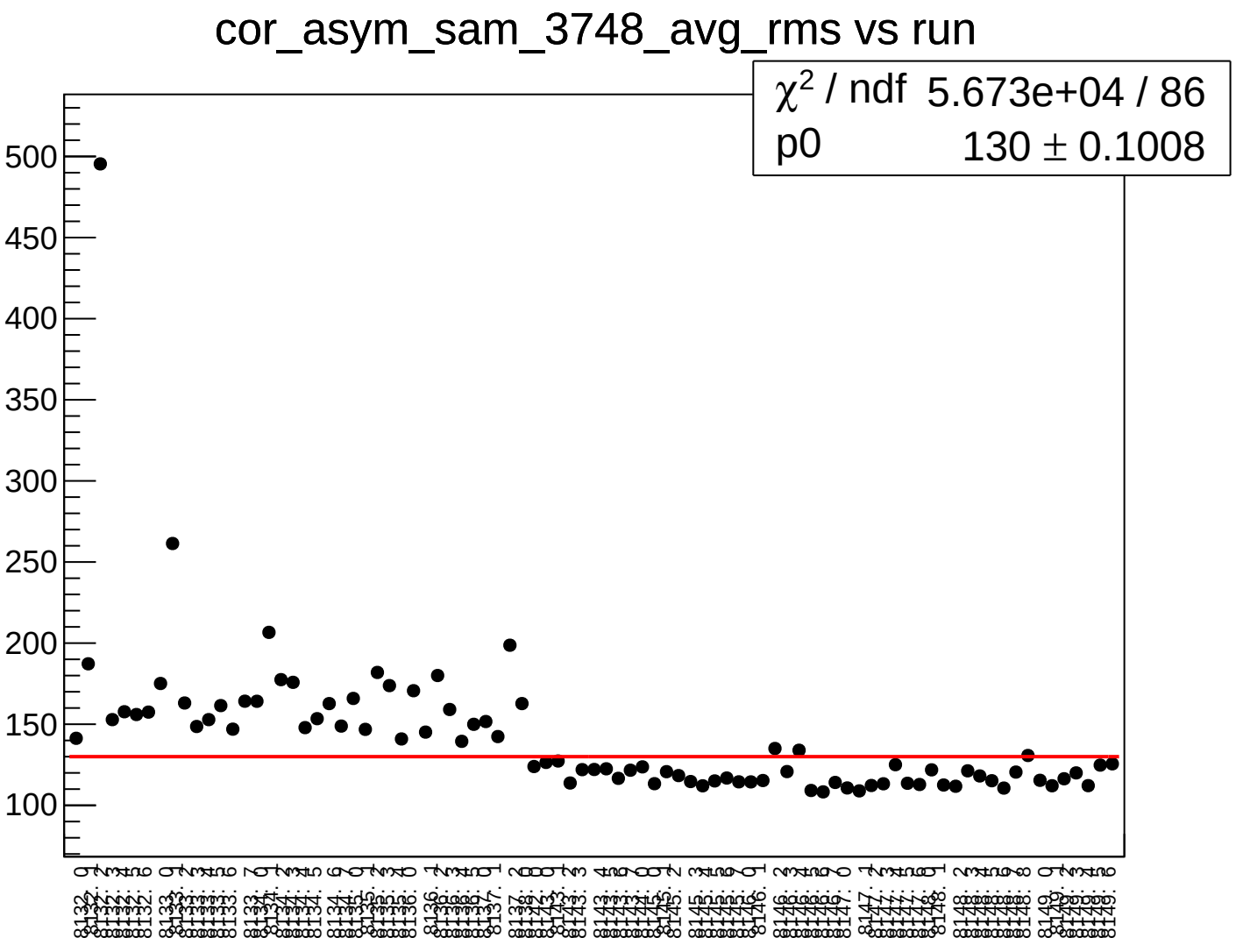

reg_asym_sam_3748_avg_rms vs run
χ^2 / ndf 5.673e+04 / 86
p0 130 ± 0.1008
500
450
400
350
300
250
200
150
100

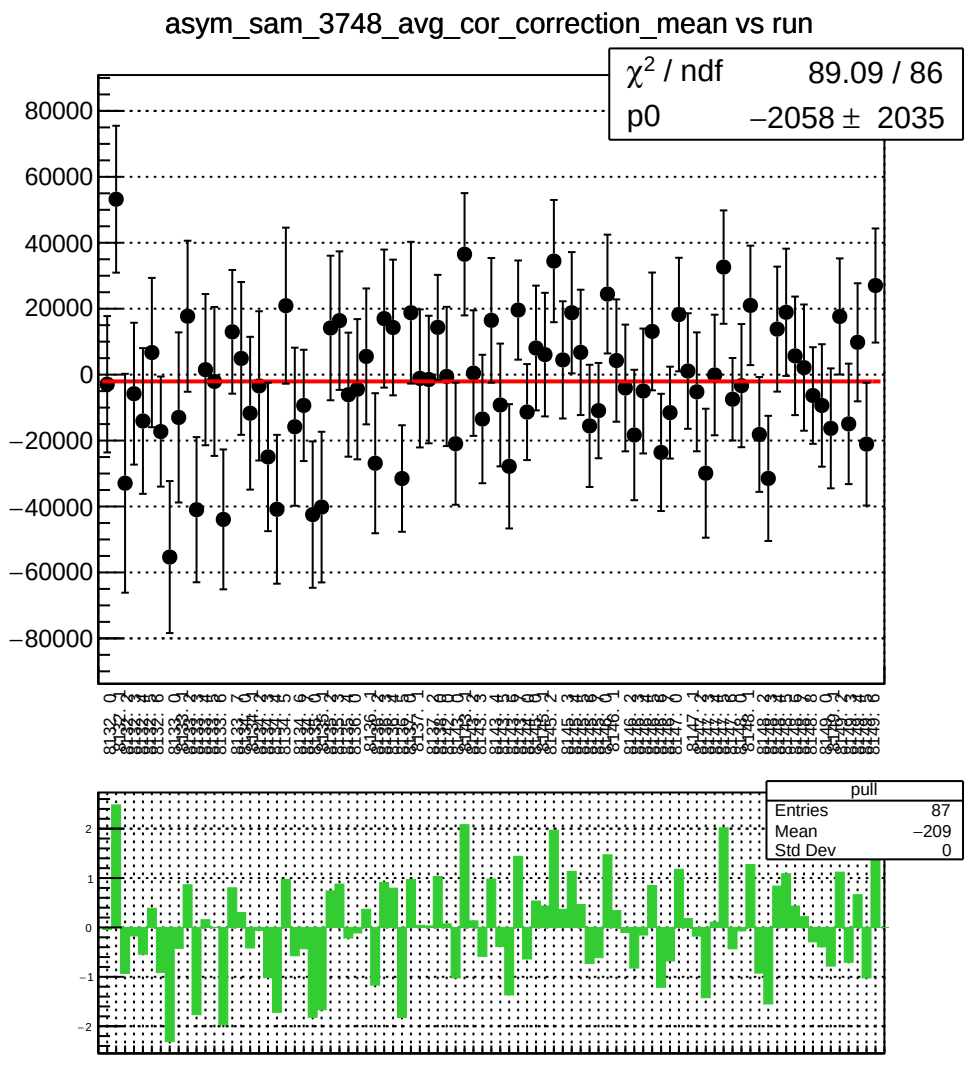

asym_sam_3748_avg_reg_correction_mean vs run
χ² / ndf 89.09 / 86
p0 −2058 ± 2035
pull
Entries 87
Mean −209
Std Dev 0

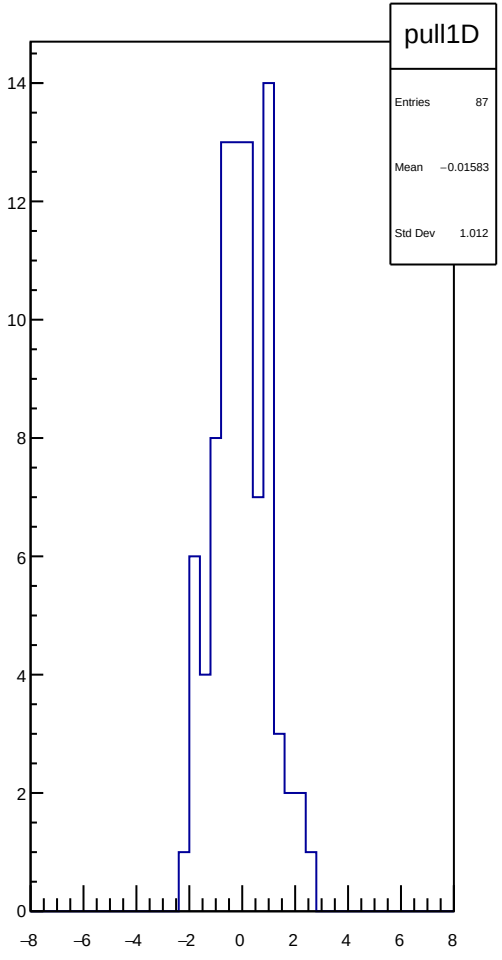

pull1D
Entries 87
Mean −0.01583
Std Dev 1.012

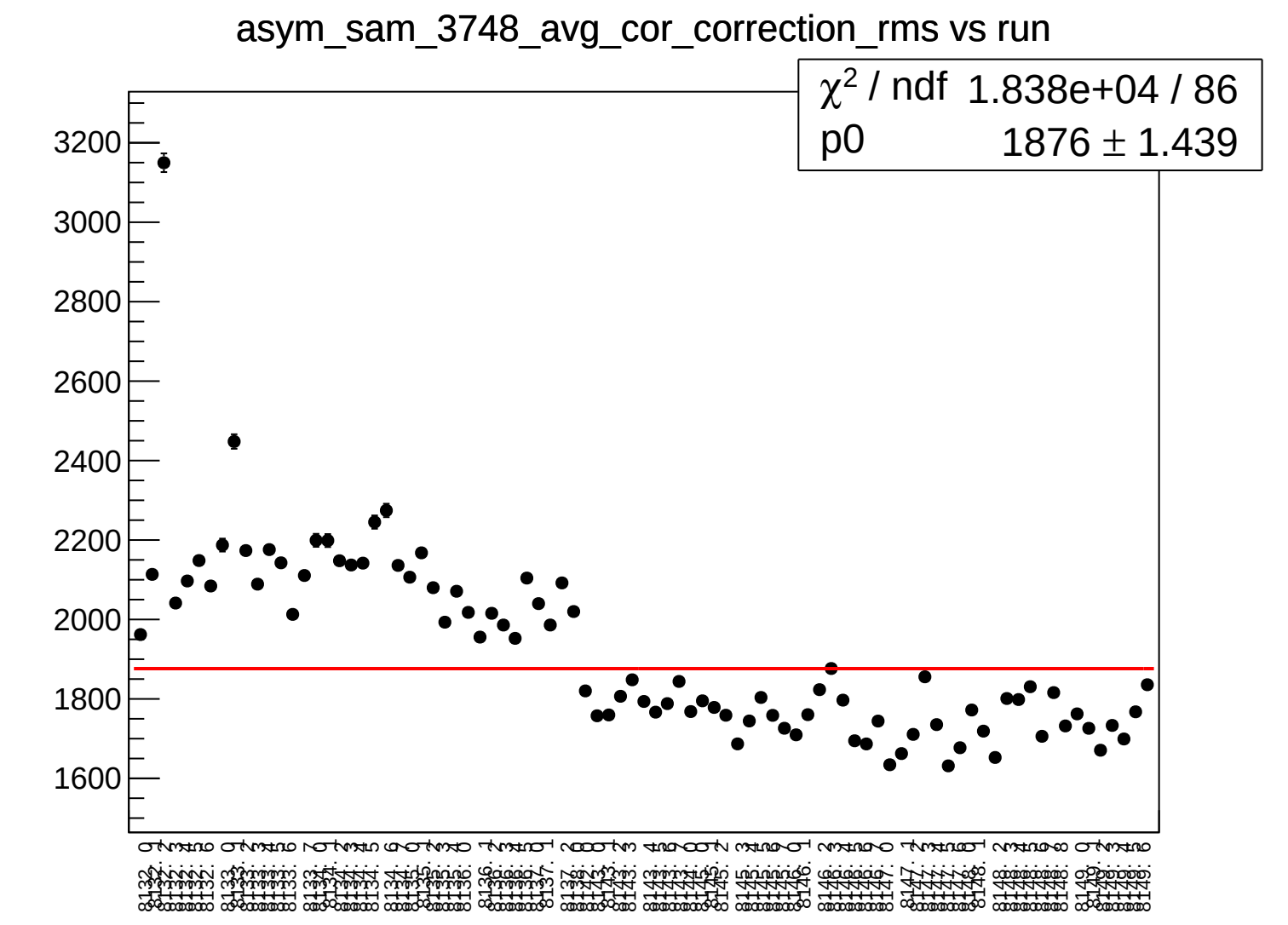

asym_sam_3748_avg_reg_correction_rms vs run
χ² / ndf 1.838e+04 / 86
p0 1876 ± 1.439
3200
3000
2800
2600
2400
2200
2000
1800
1600

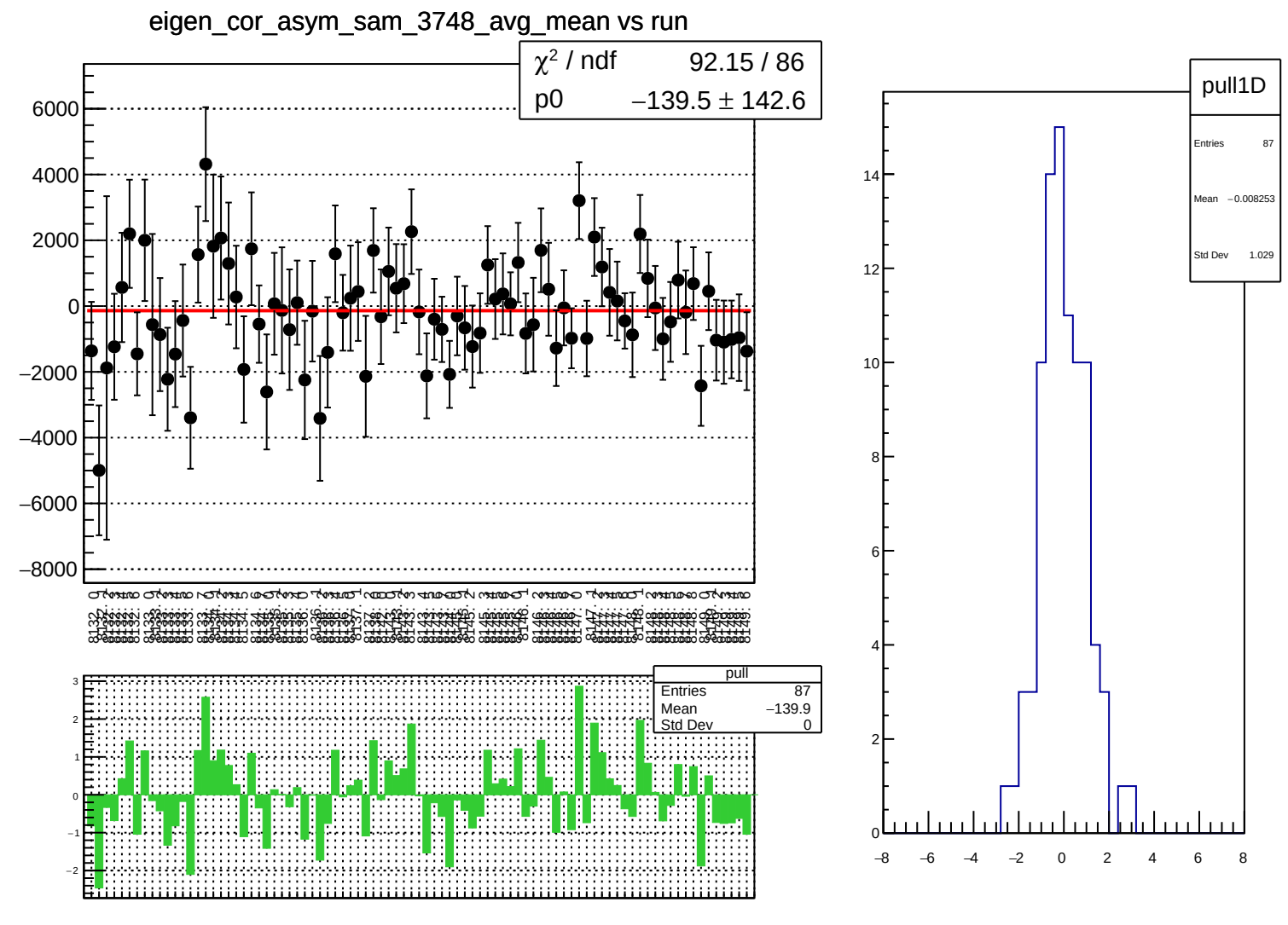

cor_asym_sam_3748_avg_mean vs run
χ² / ndf 92.15 / 86
p0 −139.5 ± 142.6
pull
Entries 87
Mean −139.9
Std Dev 0
pull1D
Entries 87
Mean −0.008253
Std Dev 1.029

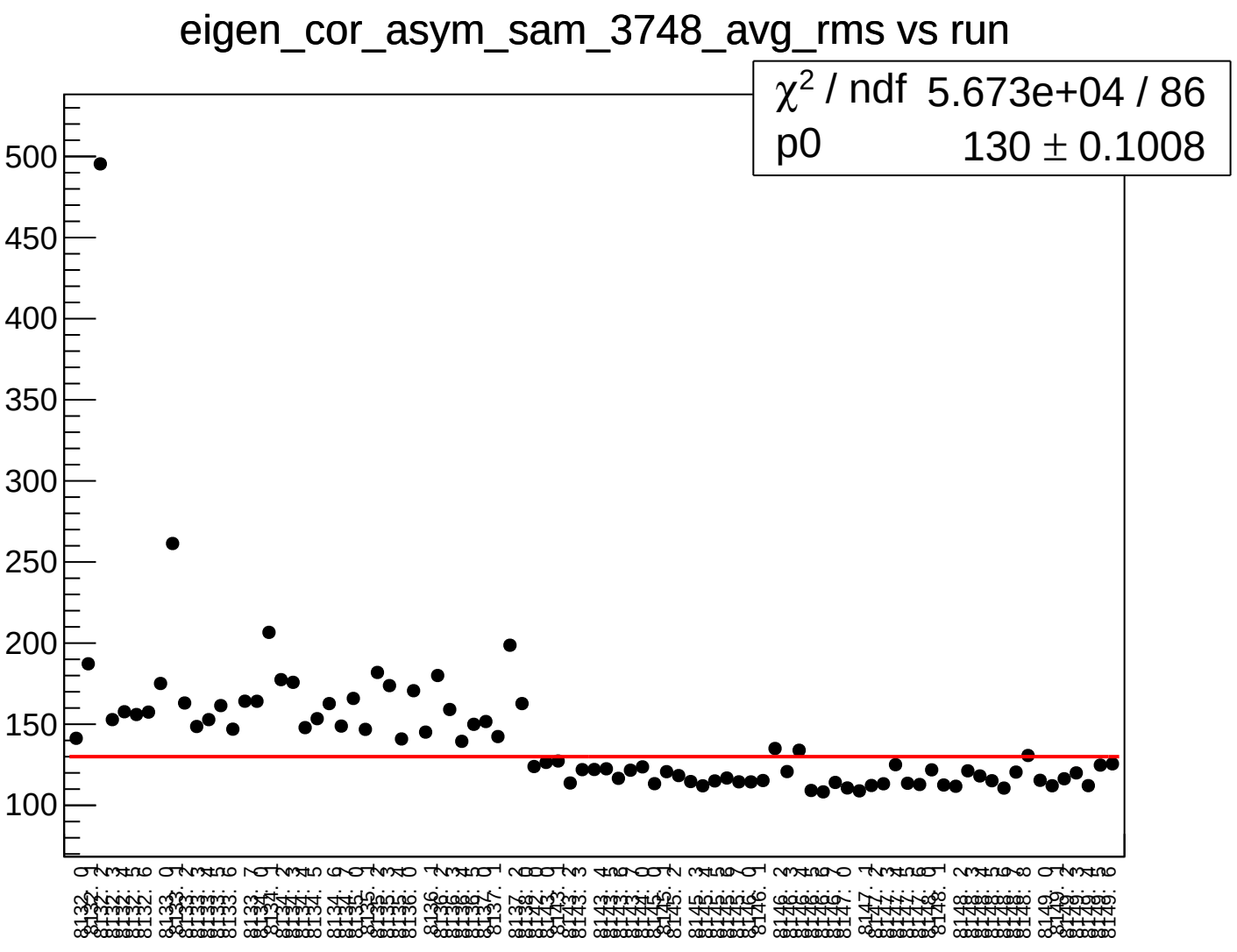

cor_asym_sam_3748_avg_rms vs run
χ^2 / ndf 5.673e+04 / 86
p0 130 ± 0.1008
500
450
400
350
300
250
200
150
100

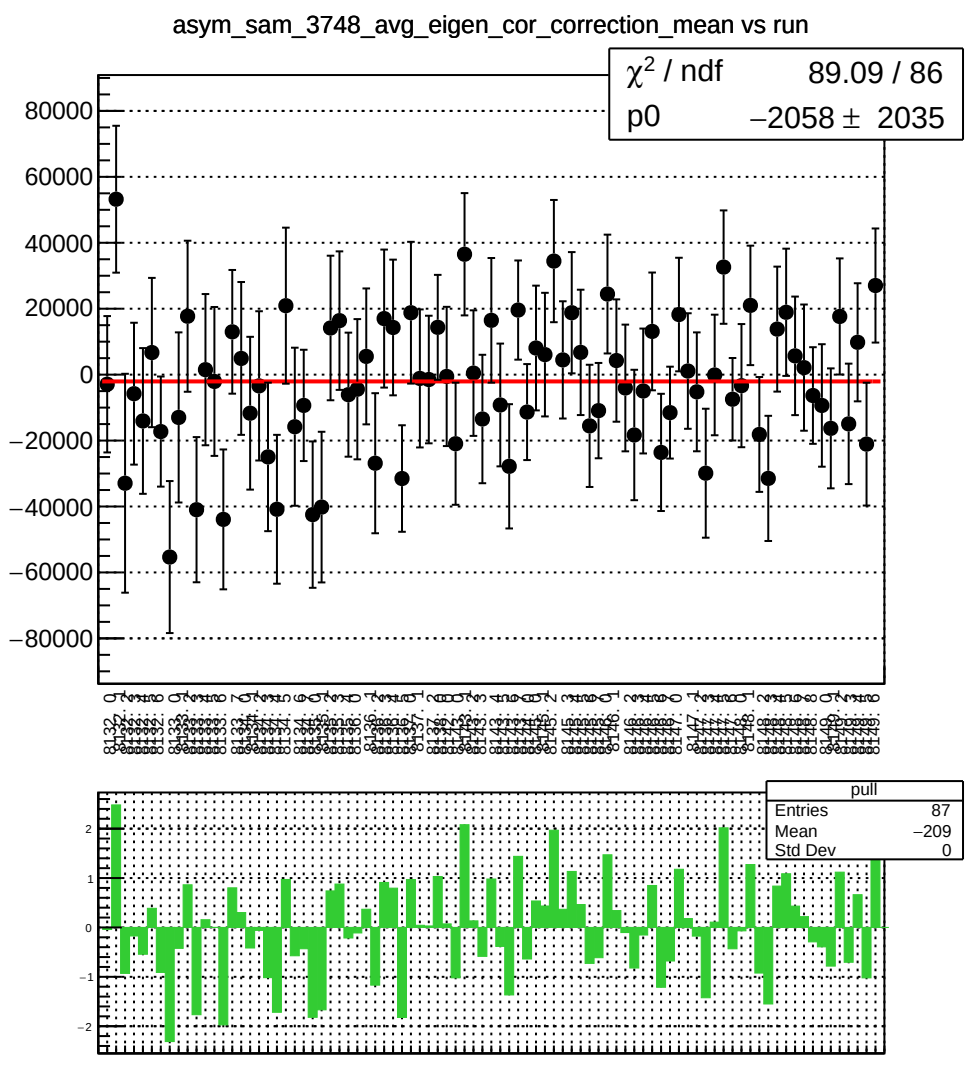

asym_sam_3748_avg_cor_correction_mean vs run
χ² / ndf 89.09 / 86
p0 −2058 ± 2035
pull
Entries 87
Mean −209
Std Dev 0

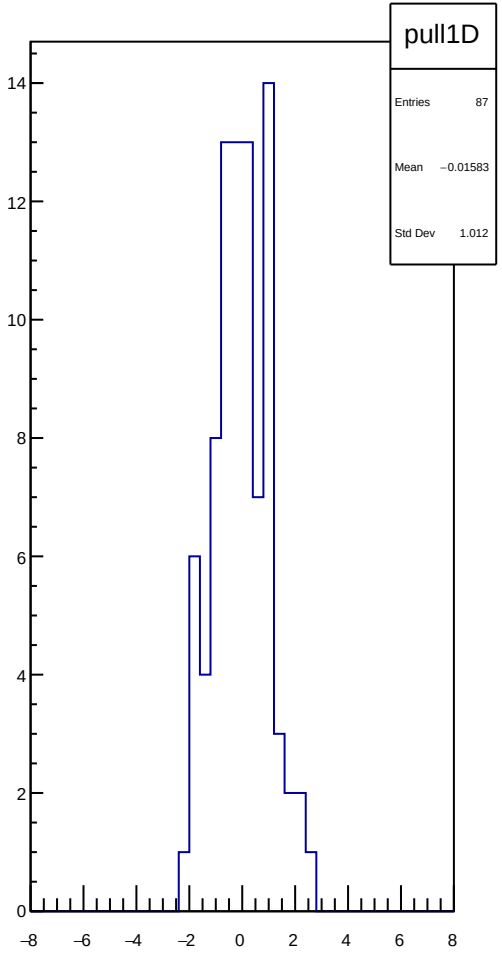

pull1D
Entries 87
Mean −0.01583
Std Dev 1.012

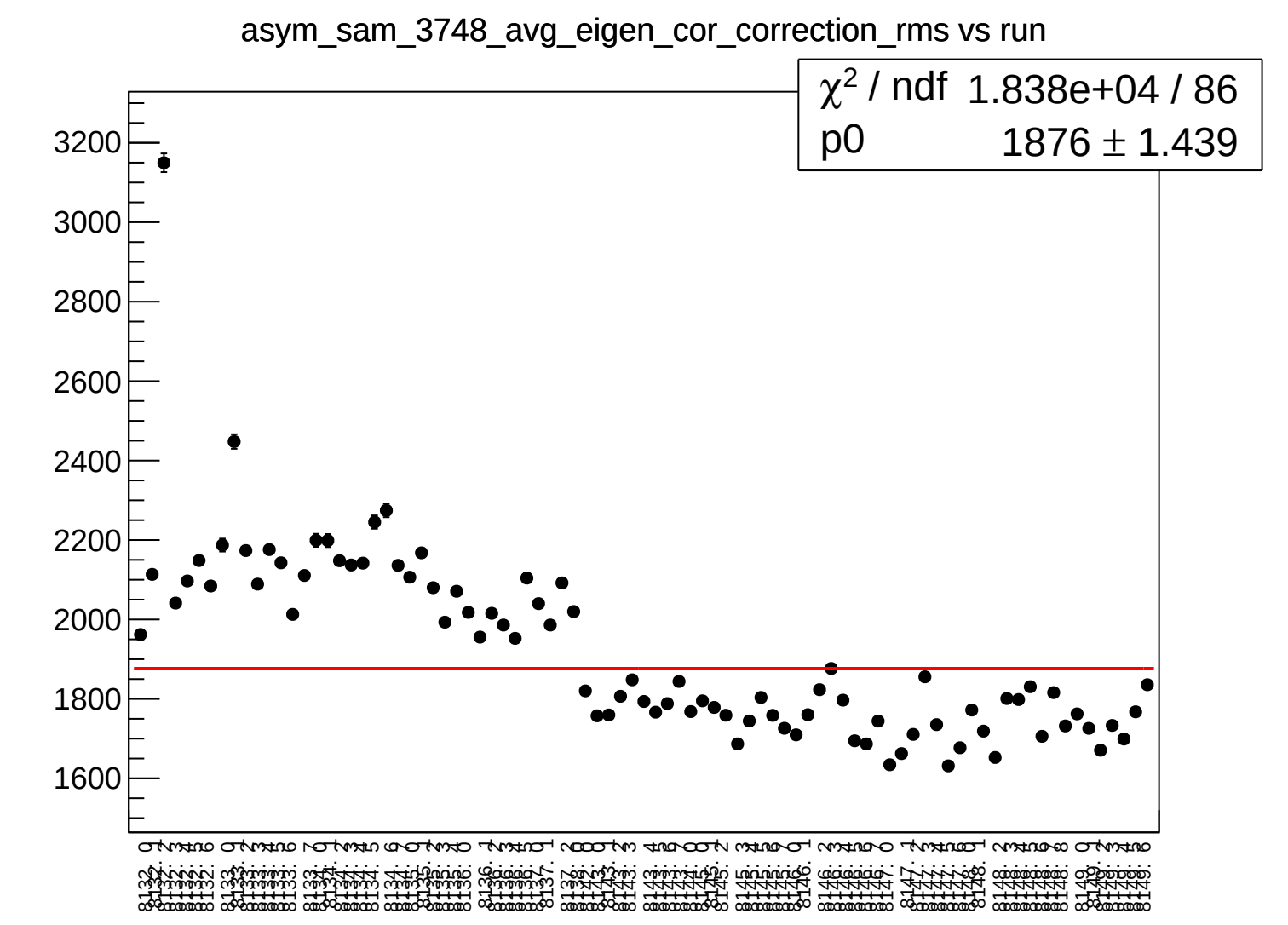

asym_sam_3748_avg_cor_correction_rms vs run
χ² / ndf 1.838e+04 / 86
p0 1876 ± 1.439
3200
3000
2800
2600
2400
2200
2000
1800
1600

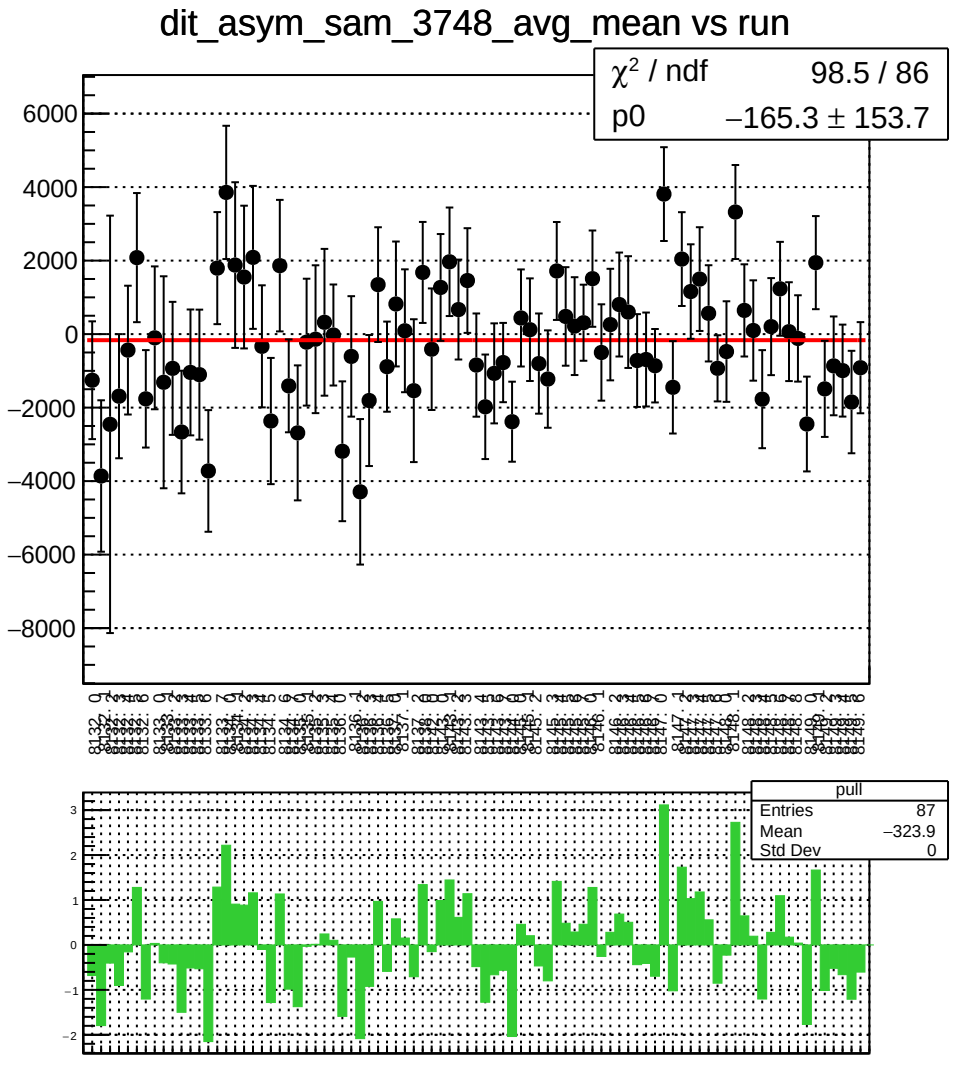

eigen_cor_asym_sam_3748_avg_mean vs run
χ² / ndf 92.15 / 86
p0 −139.5 ± 142.6
pull
Entries 87
Mean −139.9
Std Dev 0
pull1D
Entries 87
Mean −0.008253
Std Dev 1.029

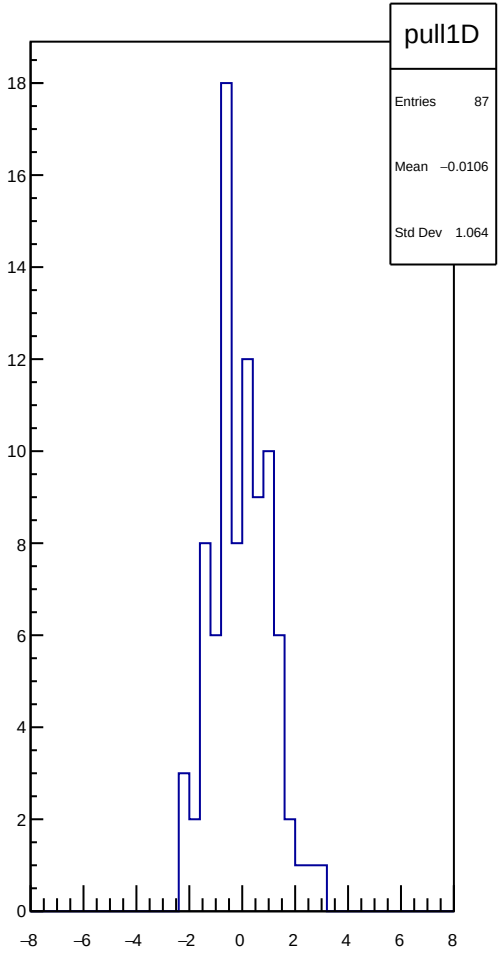

eigen_cor_asym_sam_3748_avg_rms vs run
χ² / ndf 5.673e+04 / 86
p0 130 ± 0.1008
500
450
400
350
300
250
200
150
100

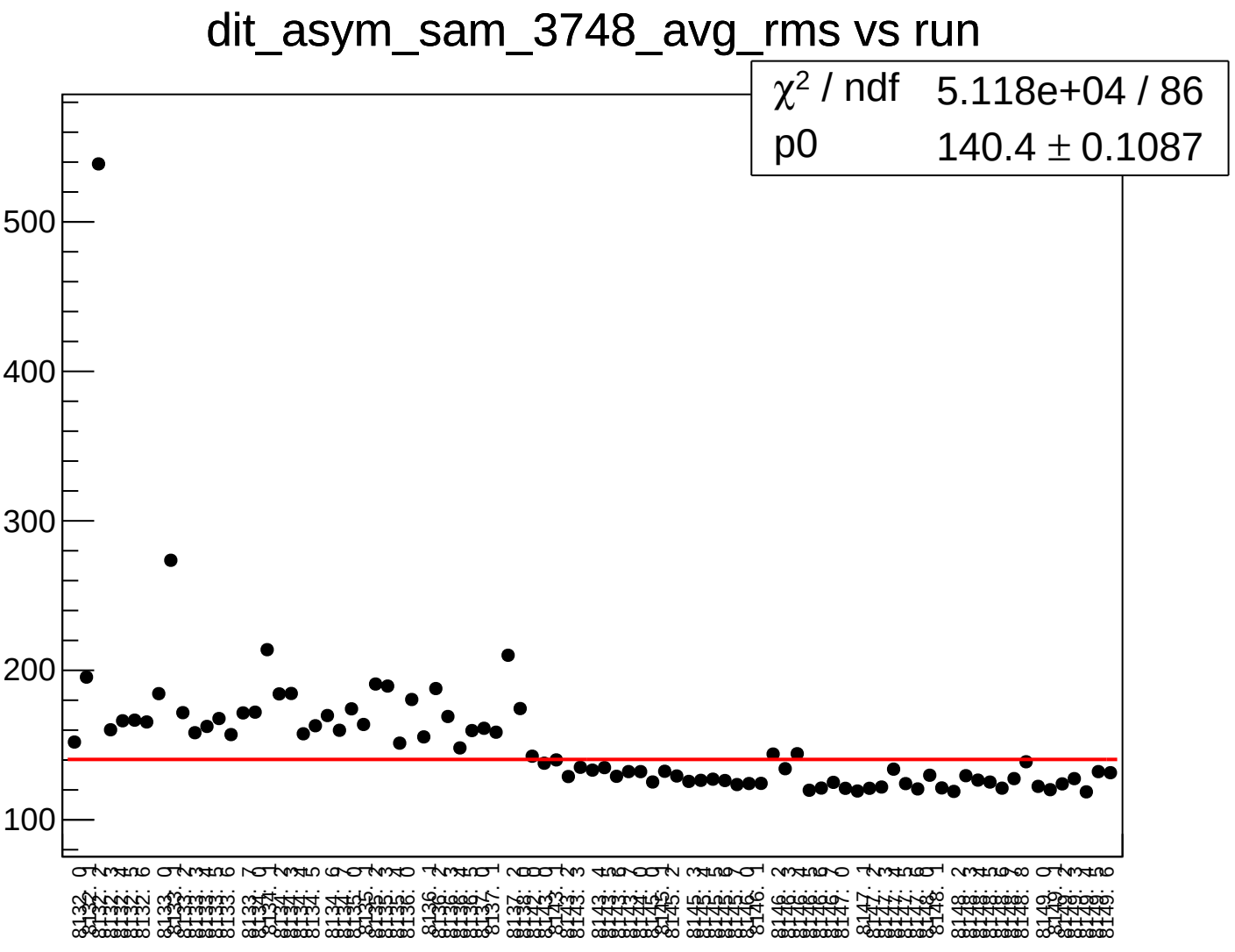

asym_sam_3748_avg_eigen_cor_correction_mean vs run
χ² / ndf 89.09 / 86
p0 −2058 ± 2035
pull
Entries 87
Mean −209
Std Dev 0

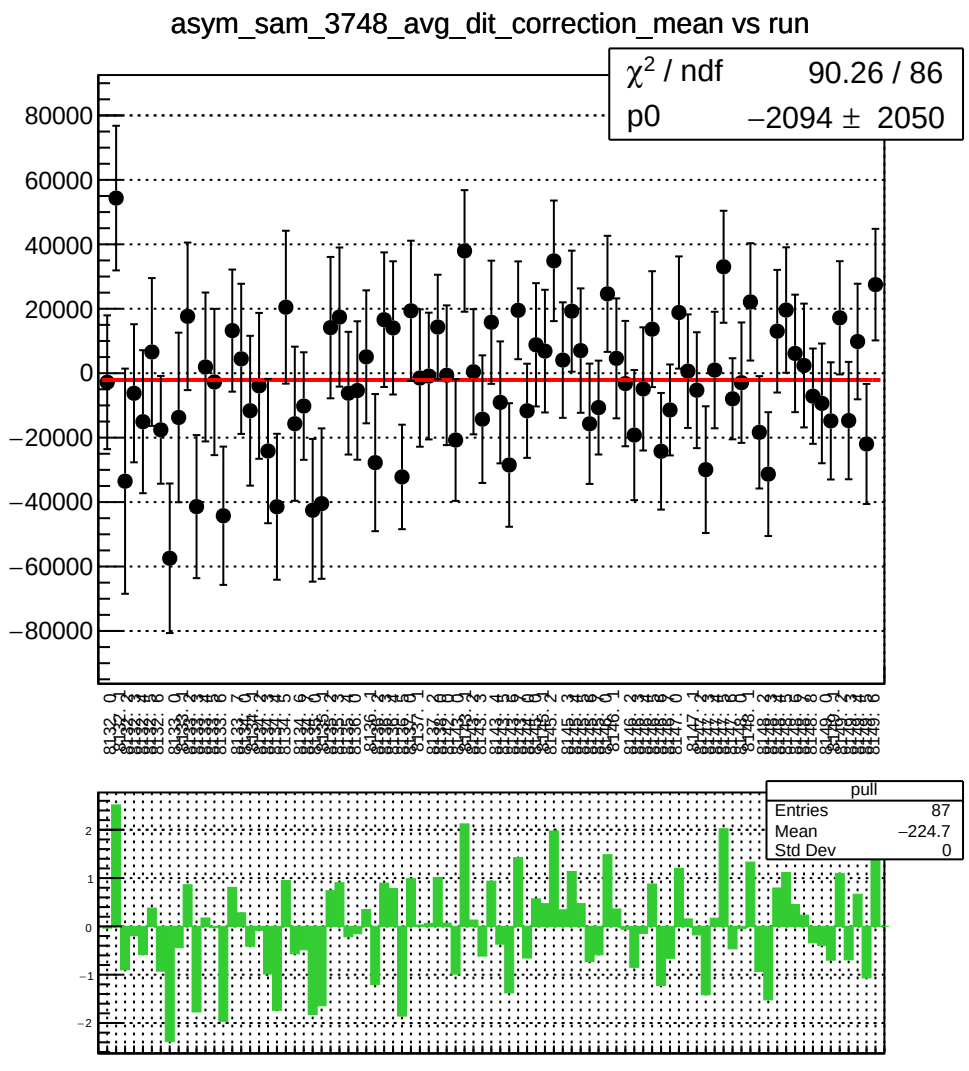

pull1D
Entries 87
Mean −0.01583
Std Dev 1.012

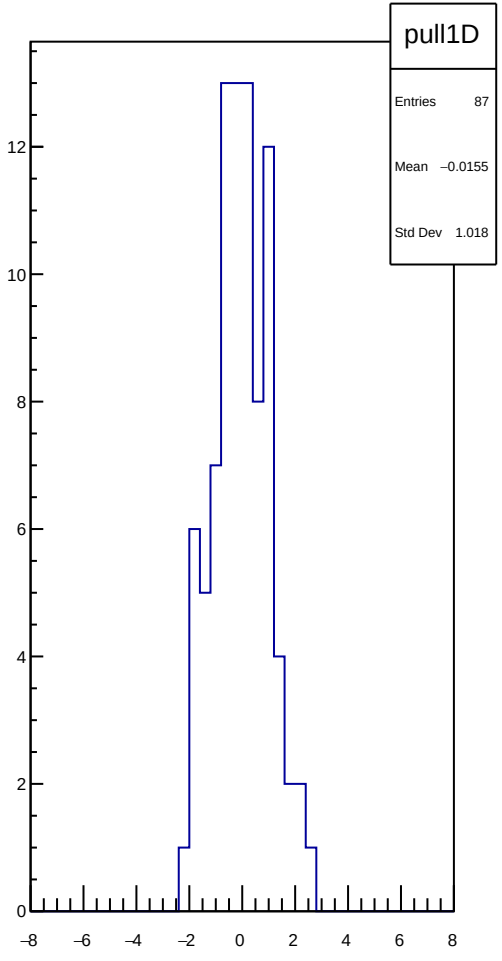

asym_sam_3748_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.838e+04 / 86
p0 1876 ± 1.439
3200
3000
2800
2600
2400
2200
2000
1800
1600

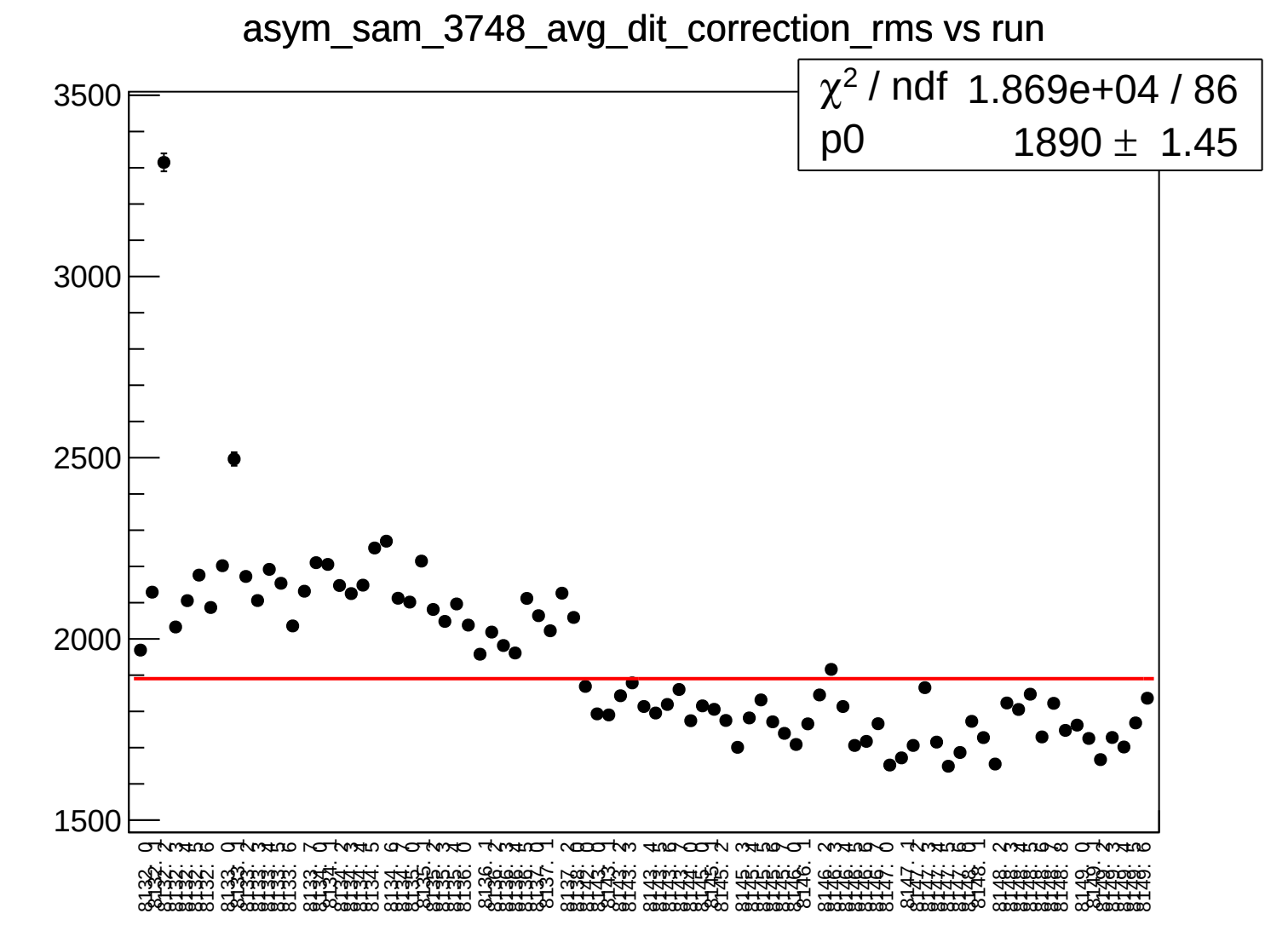

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 98.5 / 86
p0 −165.3 ± 153.7
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 87
Mean −323.9
Std Dev 0
3
2
1
0
−1
−2

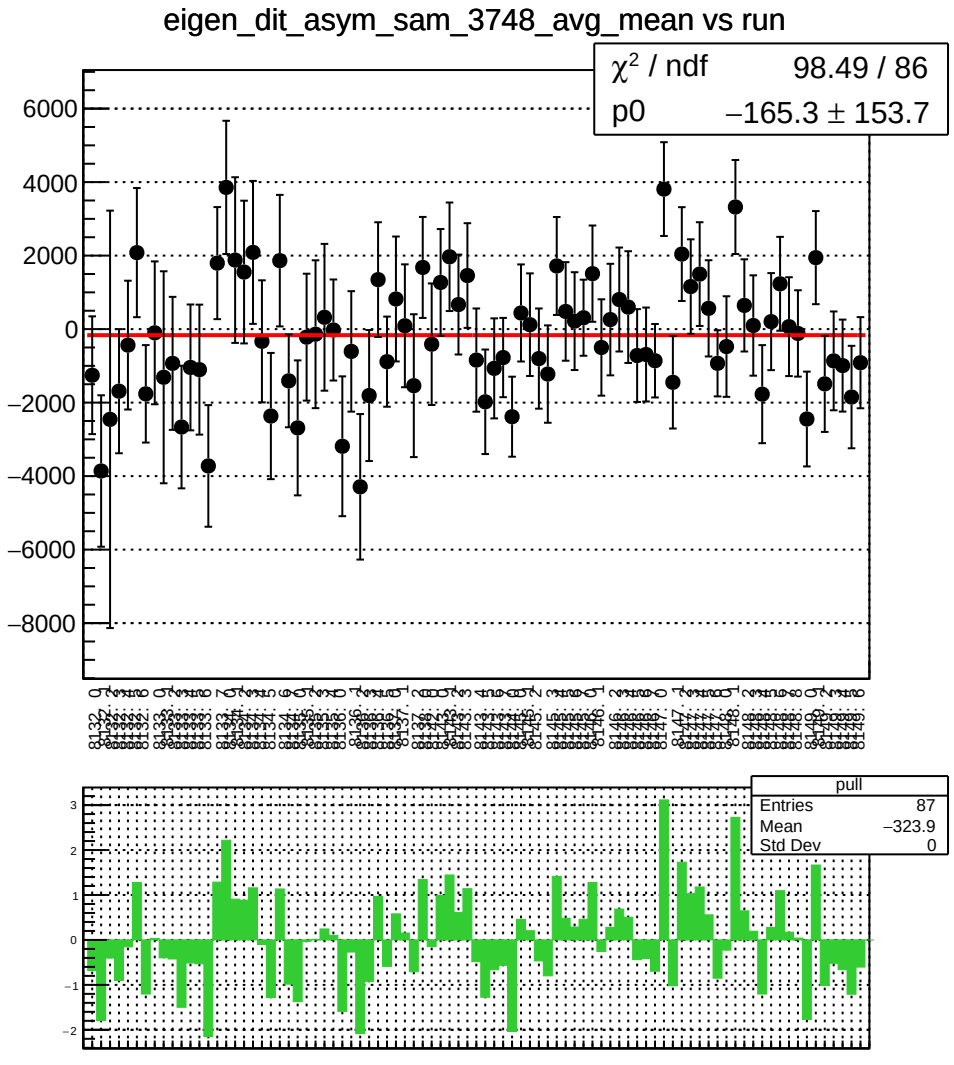

pull1D
Entries 87
Mean −0.0106
Std Dev 1.064
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

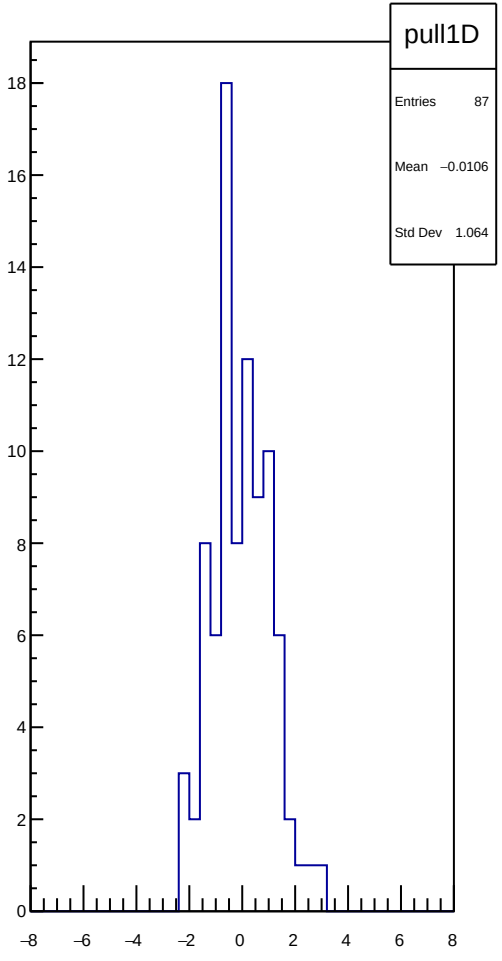

dit_asym_sam_3748_avg_rms vs run
χ^2 / ndf 5.118e+04 / 86
p0 140.4 ± 0.1087
500
400
300
200
100

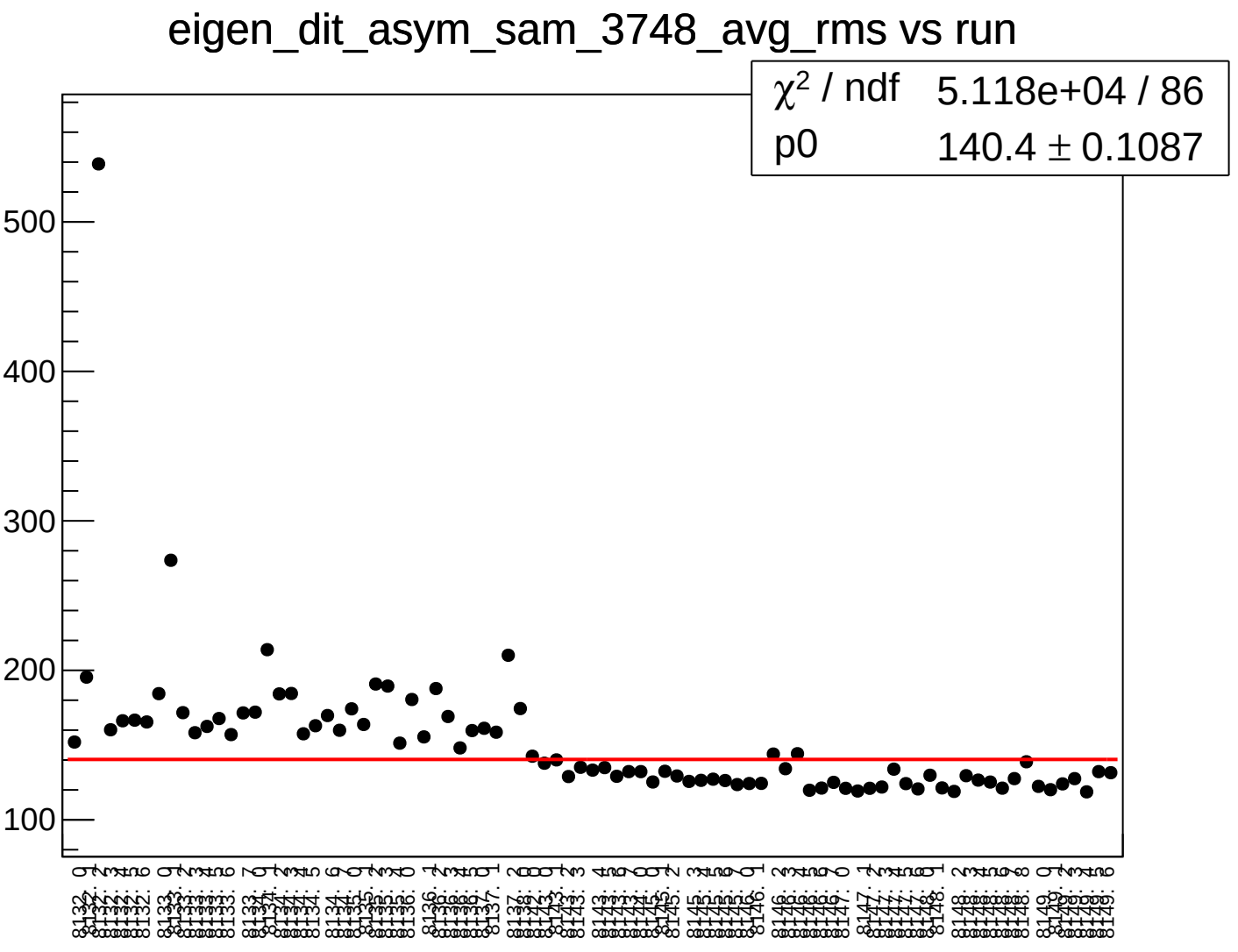

asym_sam_3748_avg_dit_correction_mean vs run
χ² / ndf 90.26 / 86
p0 −2094 ± 2050
pull
Entries 87
Mean −224.7
Std Dev 0

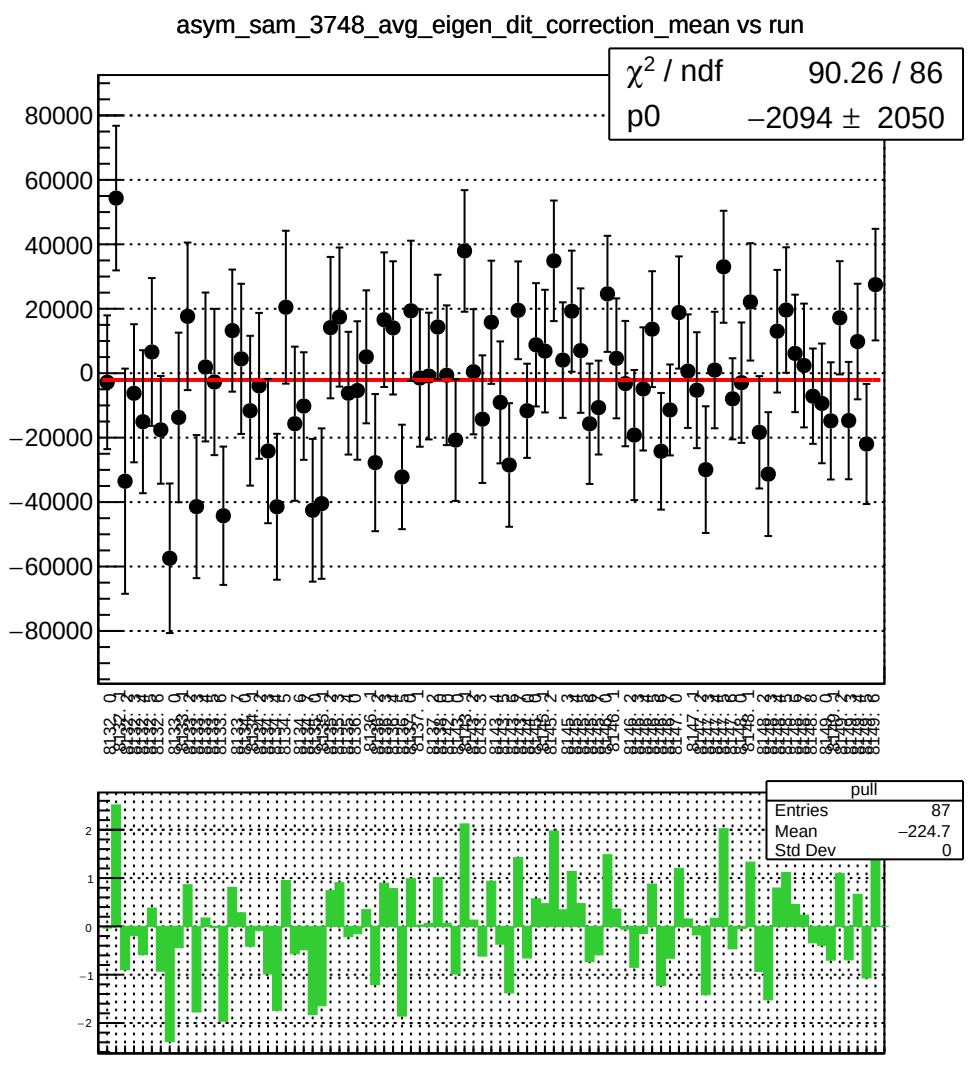

pull1D
Entries 87
Mean −0.0155
Std Dev 1.018

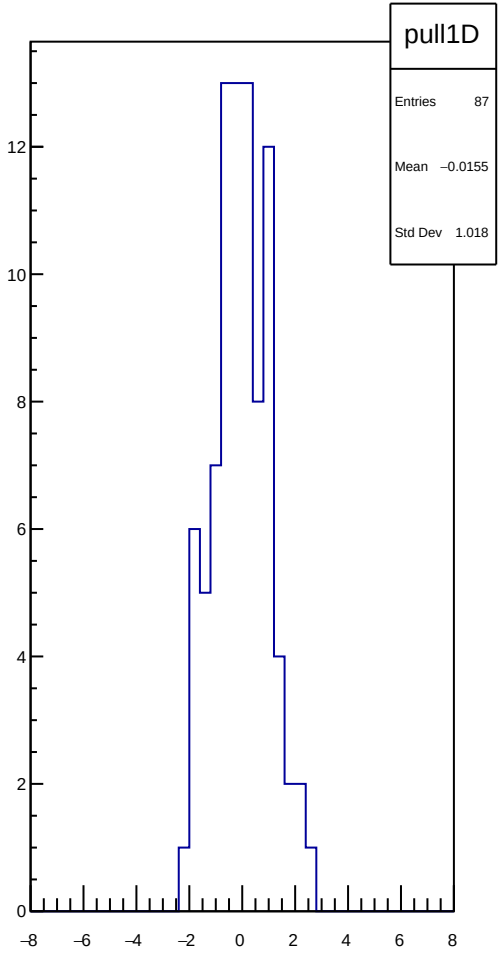

asym_sam_3748_avg_dit_correction_rms vs run
χ² / ndf 1.869e+04 / 86
p0 1890 ± 1.45
3500
3000
2500
2000
1500

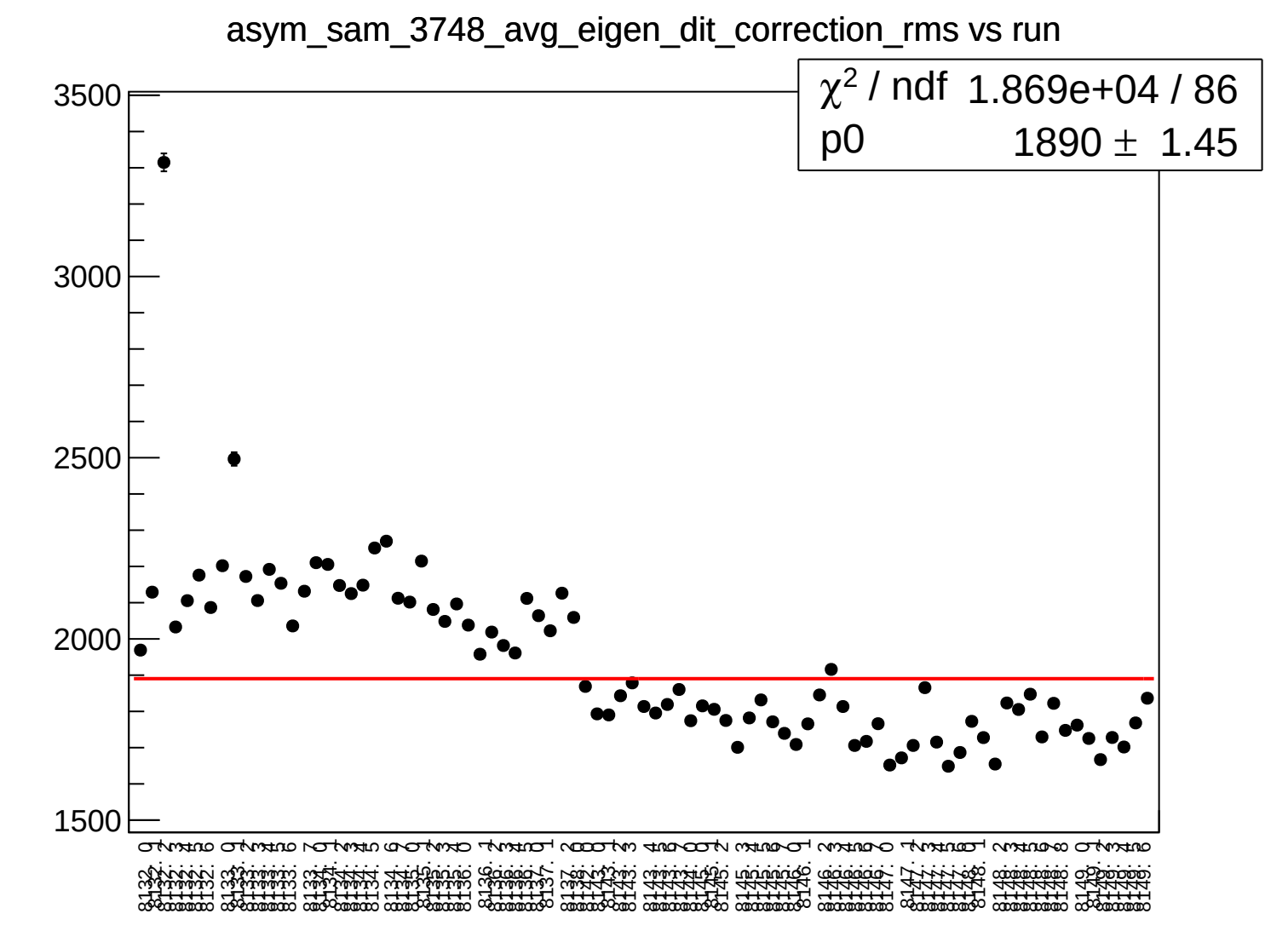

eigen_dit_asym_sam_3748_avg_mean vs run
χ² / ndf 98.49 / 86
p0 −165.3 ± 153.7
pull
Entries 87
Mean −323.9
Std Dev 0

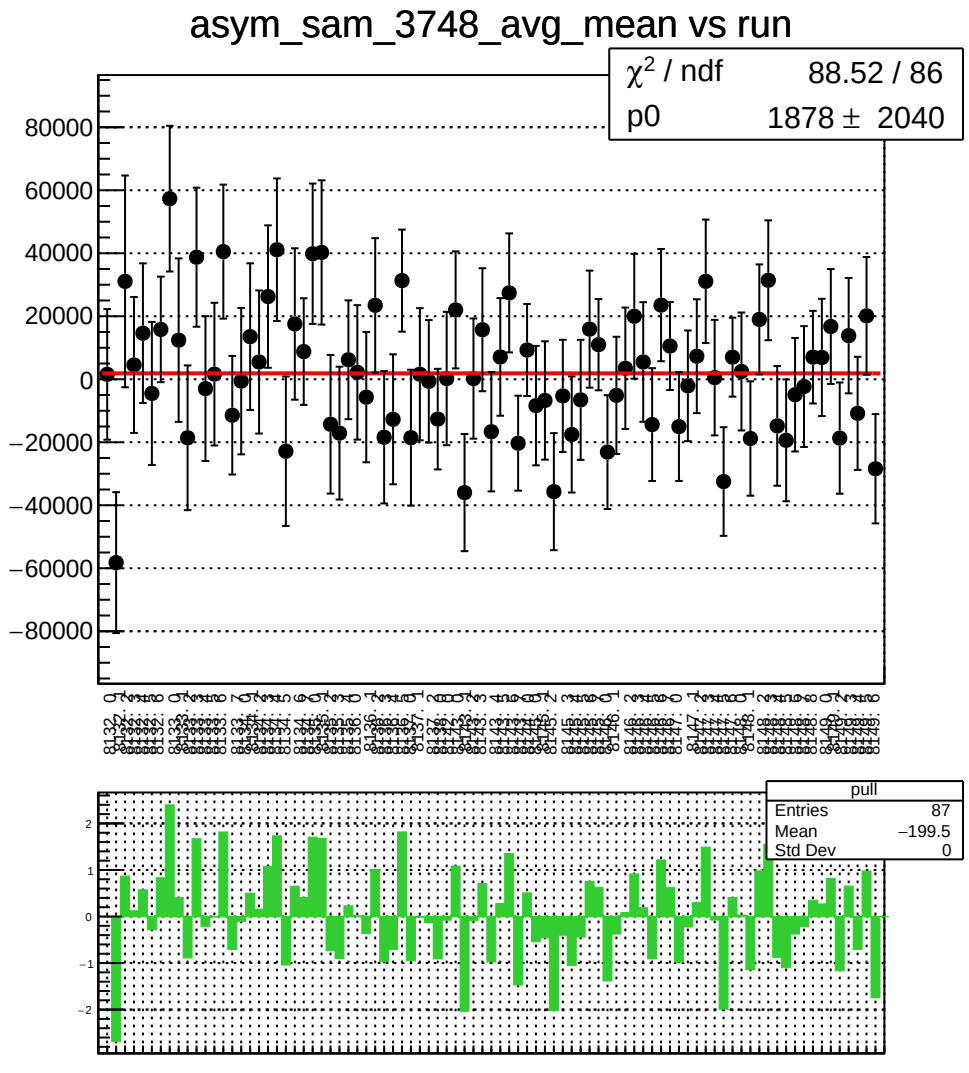

pull1D
Entries 87
Mean −0.0106
Std Dev 1.064

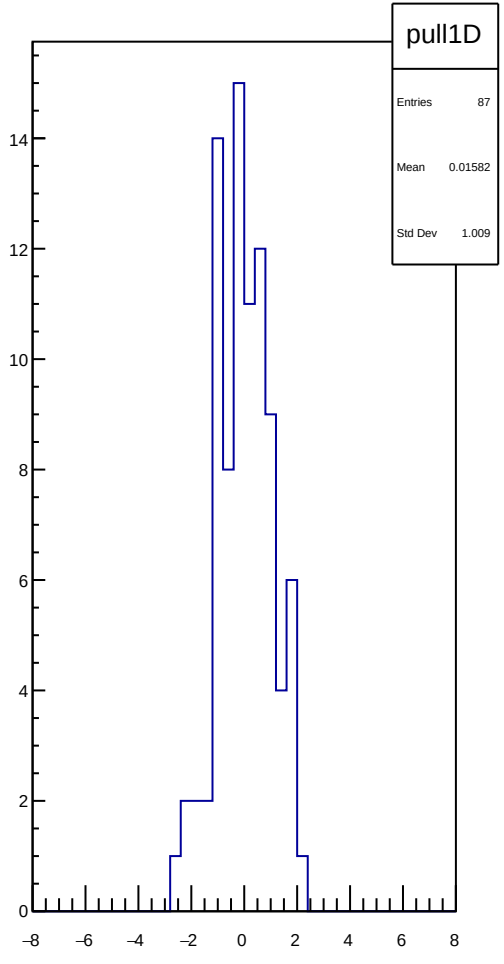

eigen_dit_asym_sam_3748_avg_rms vs run
χ² / ndf 5.118e+04 / 86
p0 140.4 ± 0.1087
500
400
300
200
100

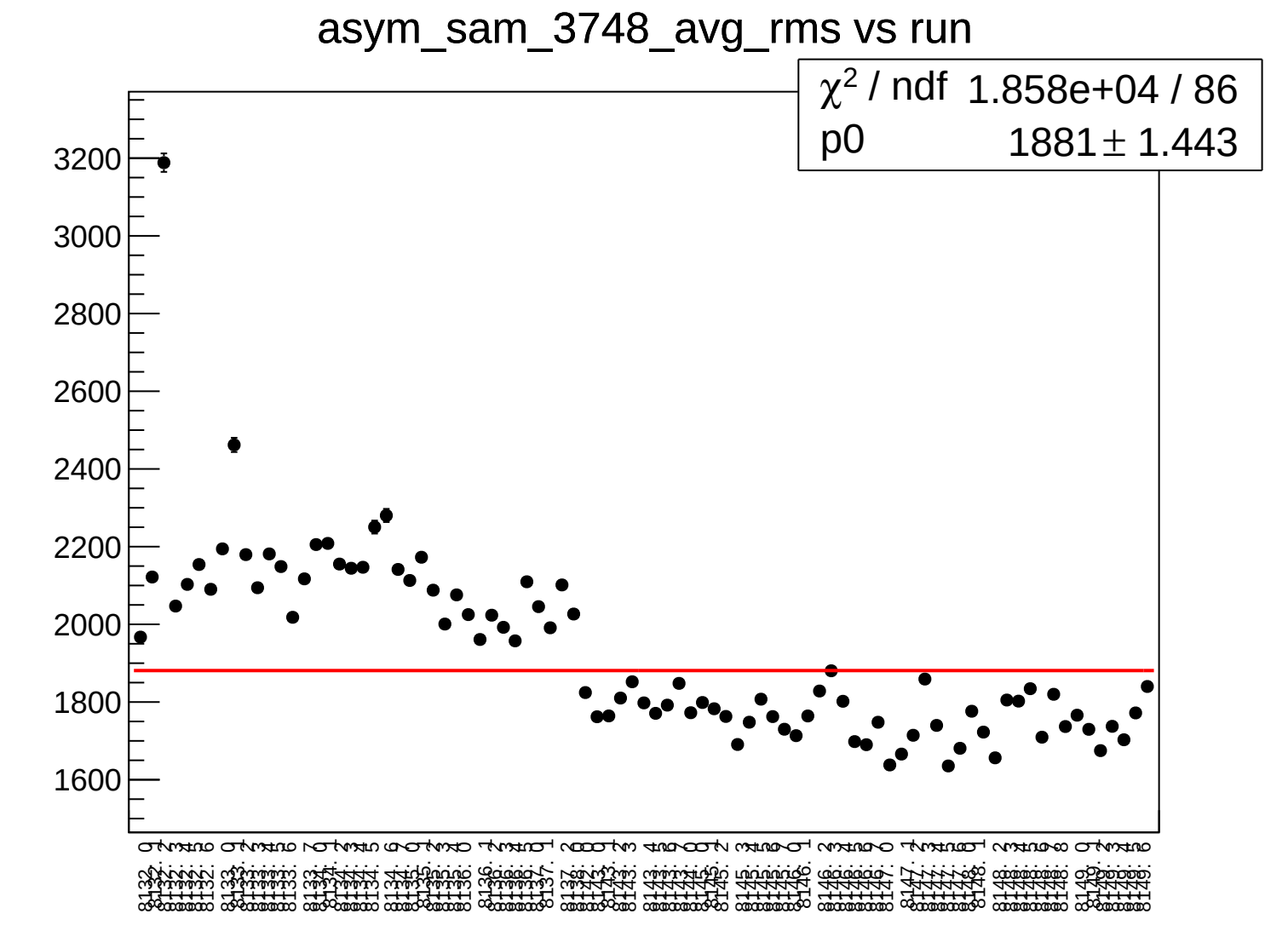

asym_sam_3748_avg_eigen_dit_correction_mean vs run
χ² / ndf 90.26 / 86
p0 −2094 ± 2050
pull
Entries 87
Mean −224.7
Std Dev 0

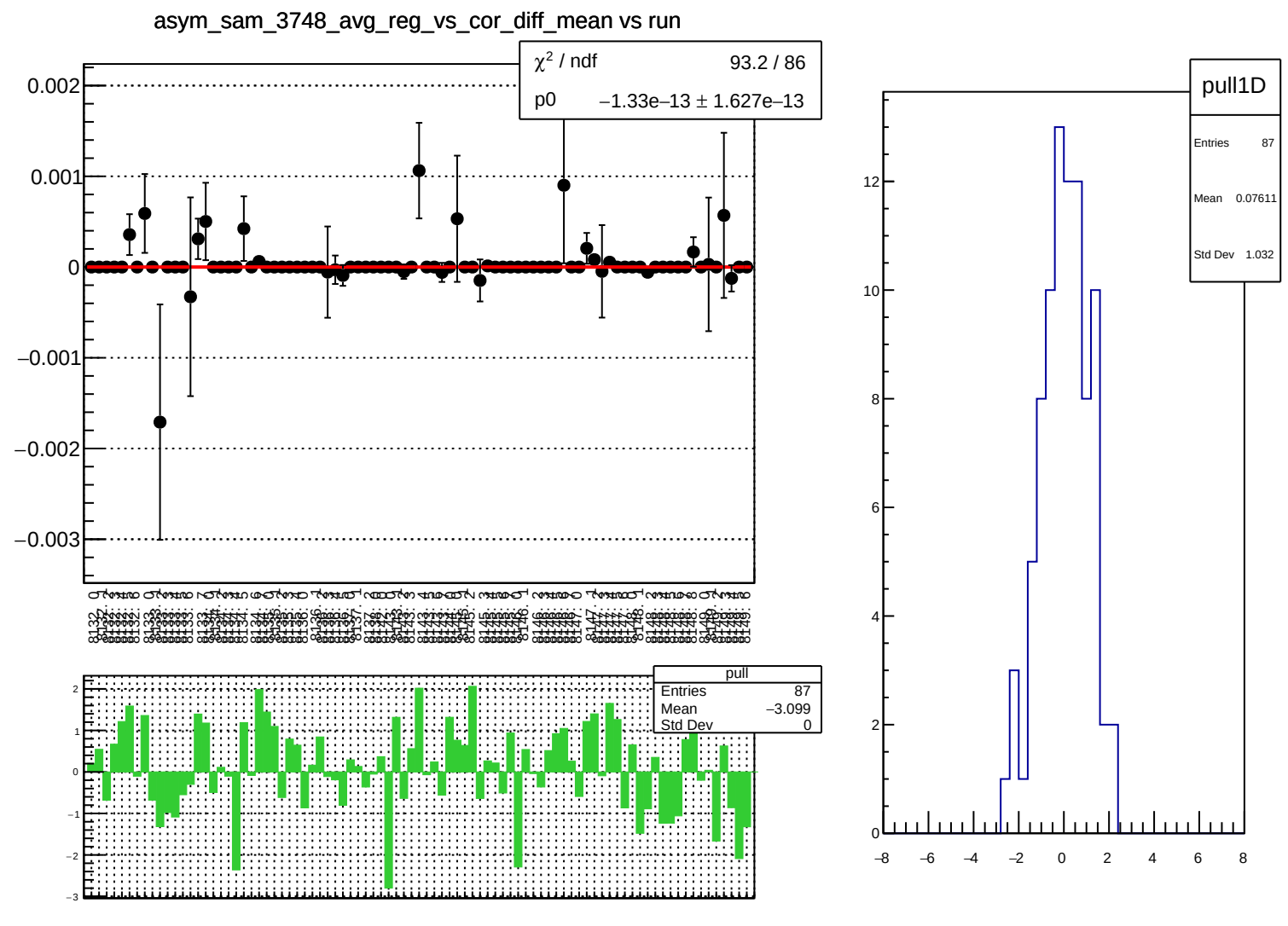

pull1D
Entries 87
Mean −0.0155
Std Dev 1.018

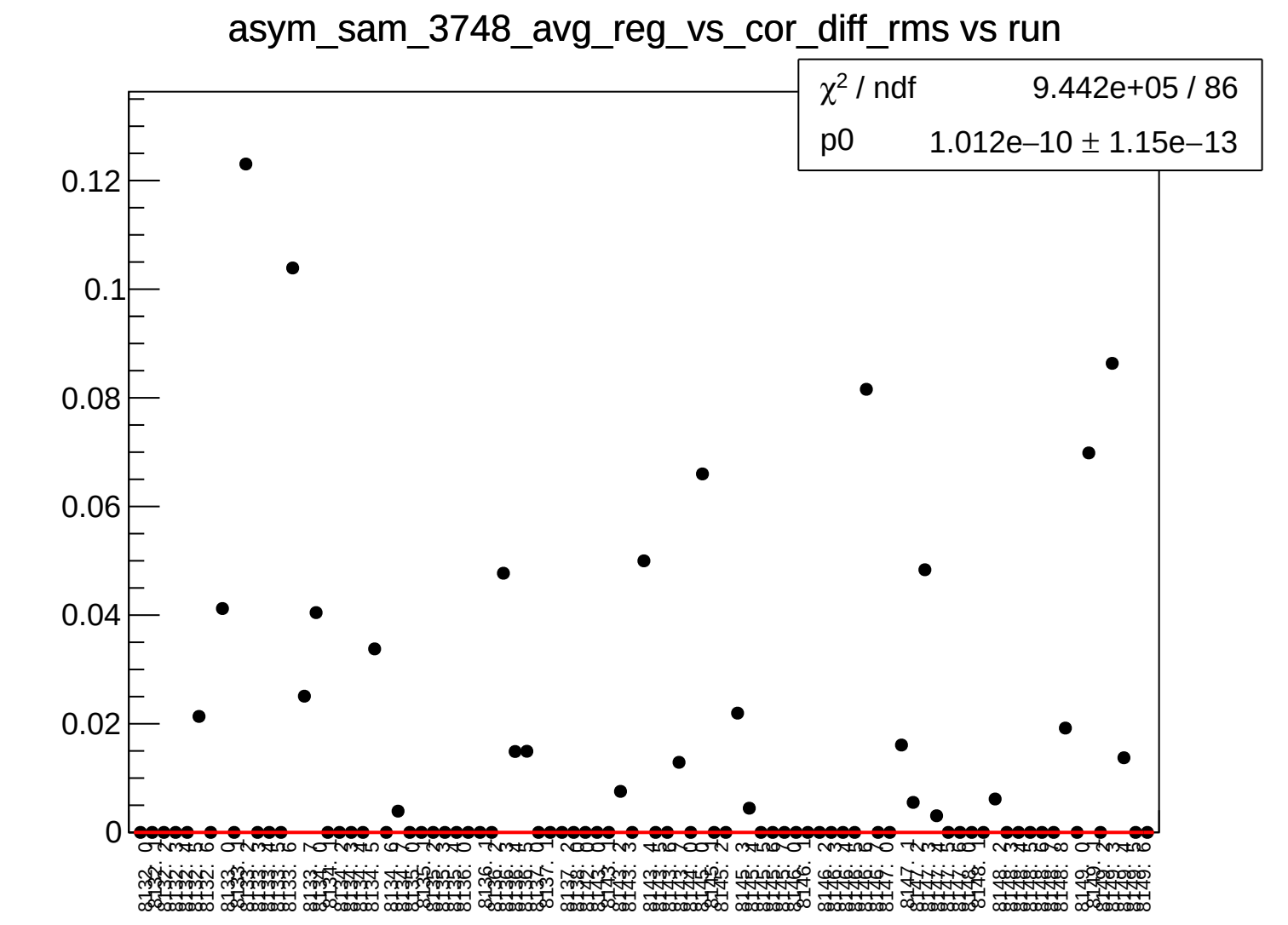

asym_sam_3748_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.869e+04 / 86
p0 1890 ± 1.45
3500
3000
2500
2000
1500

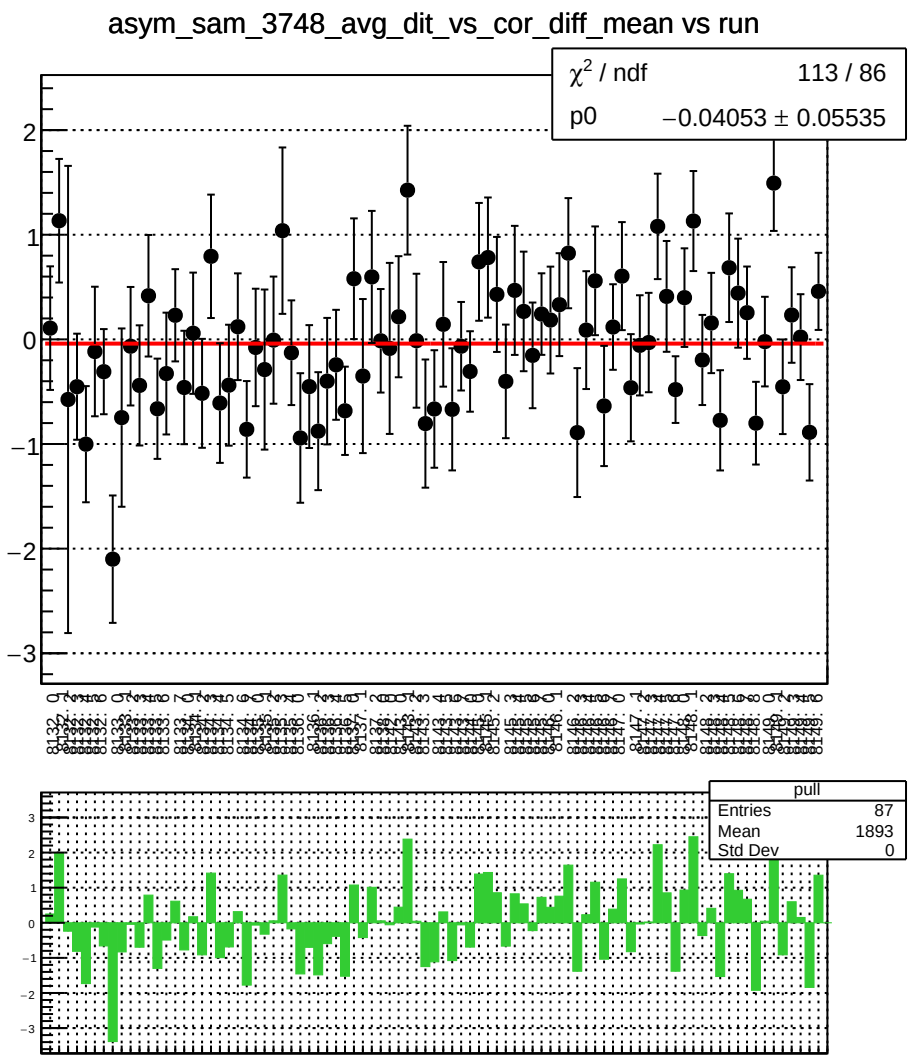

asym_sam_3748_avg_mean vs run
χ² / ndf 88.52 / 86
p0 1878 ± 2040
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean −199.5
Std Dev 0
2
1
0
−1
−2

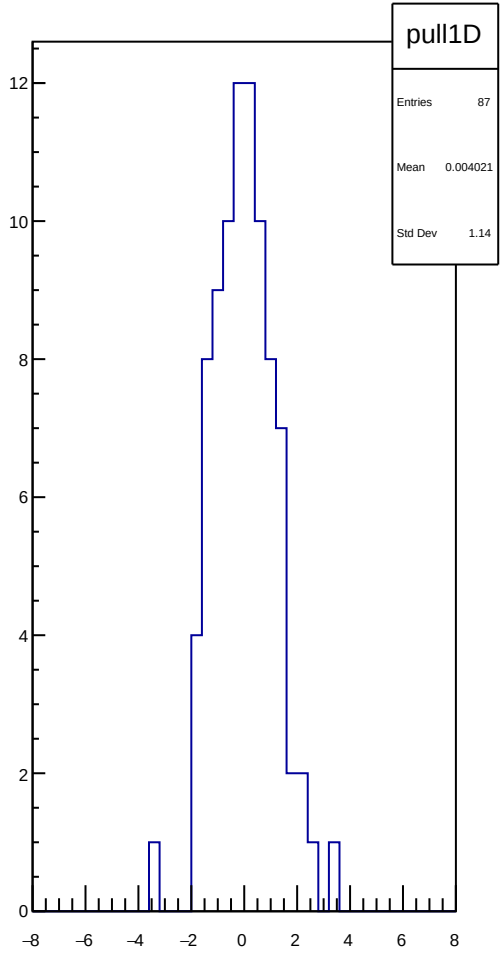

pull1D
Entries 87
Mean 0.01582
Std Dev 1.009
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

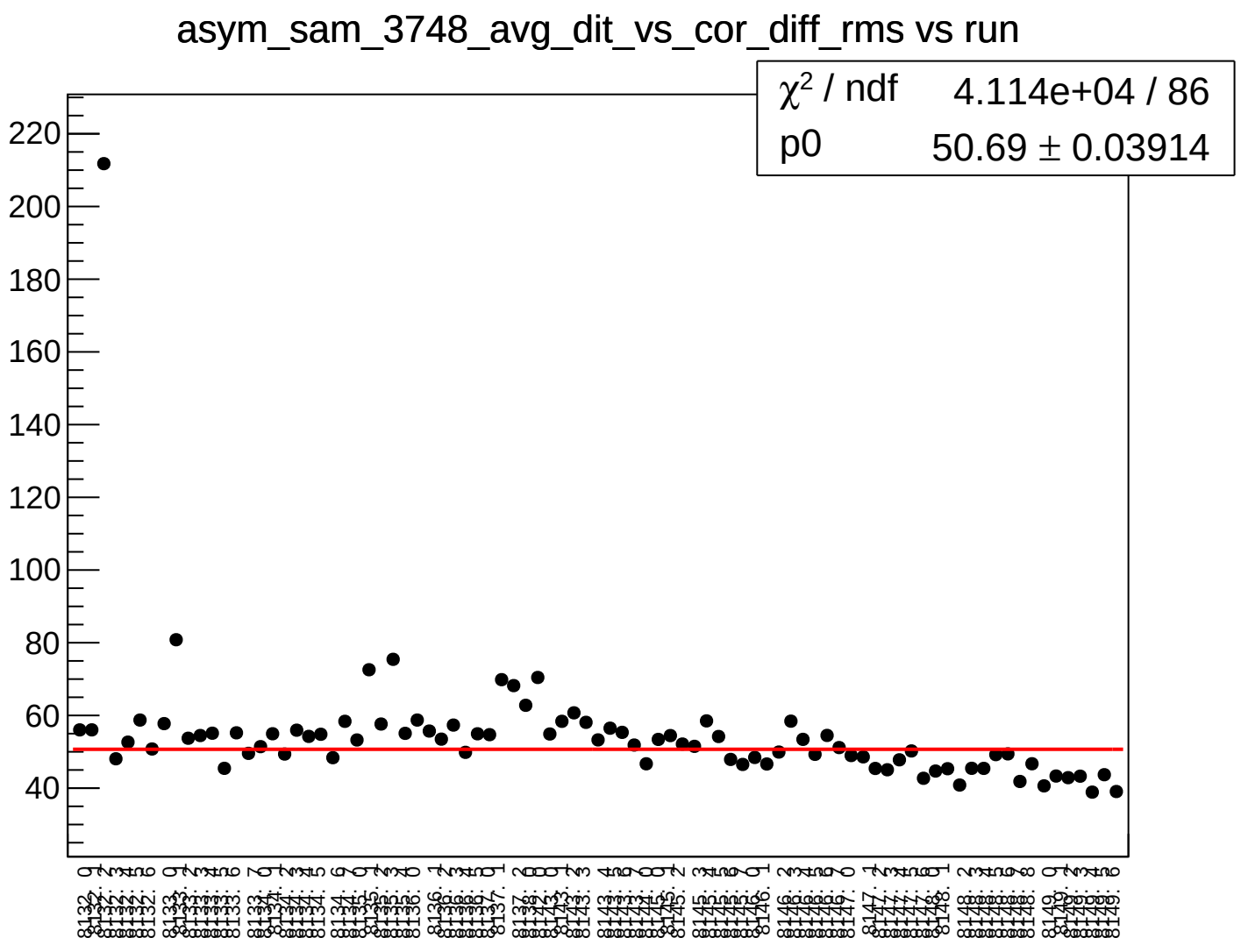

asym_sam_3748_avg_rms vs run
χ² / ndf 1.858e+04 / 86
p0 1881 ± 1.443
3200
3000
2800
2600
2400
2200
2000
1800
1600

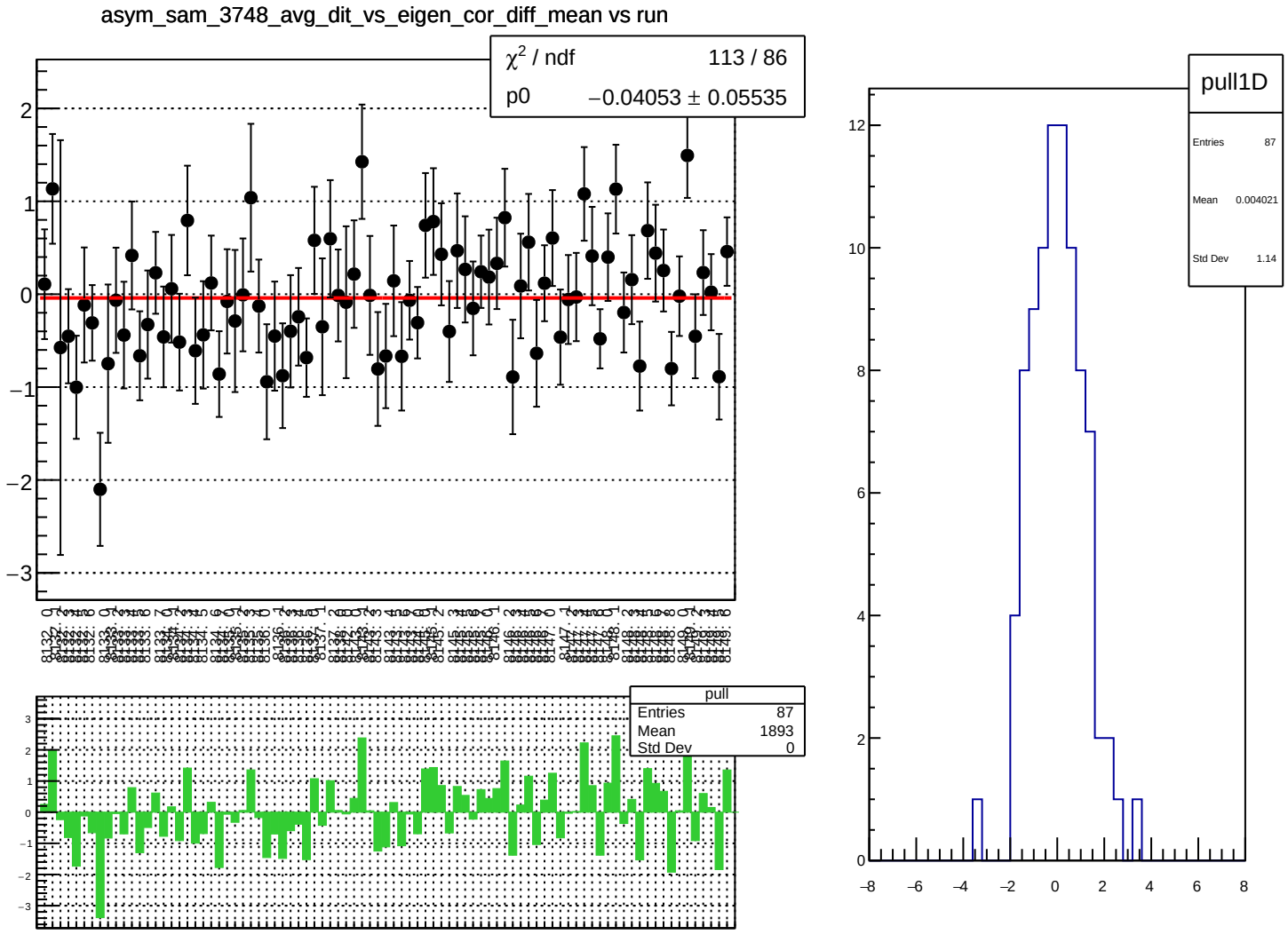

asym_sam_3748_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 93.2 / 86
p0 −1.33e−13 ± 1.627e−13
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 87
Mean −3.099
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean 0.07611
Std Dev 1.032
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

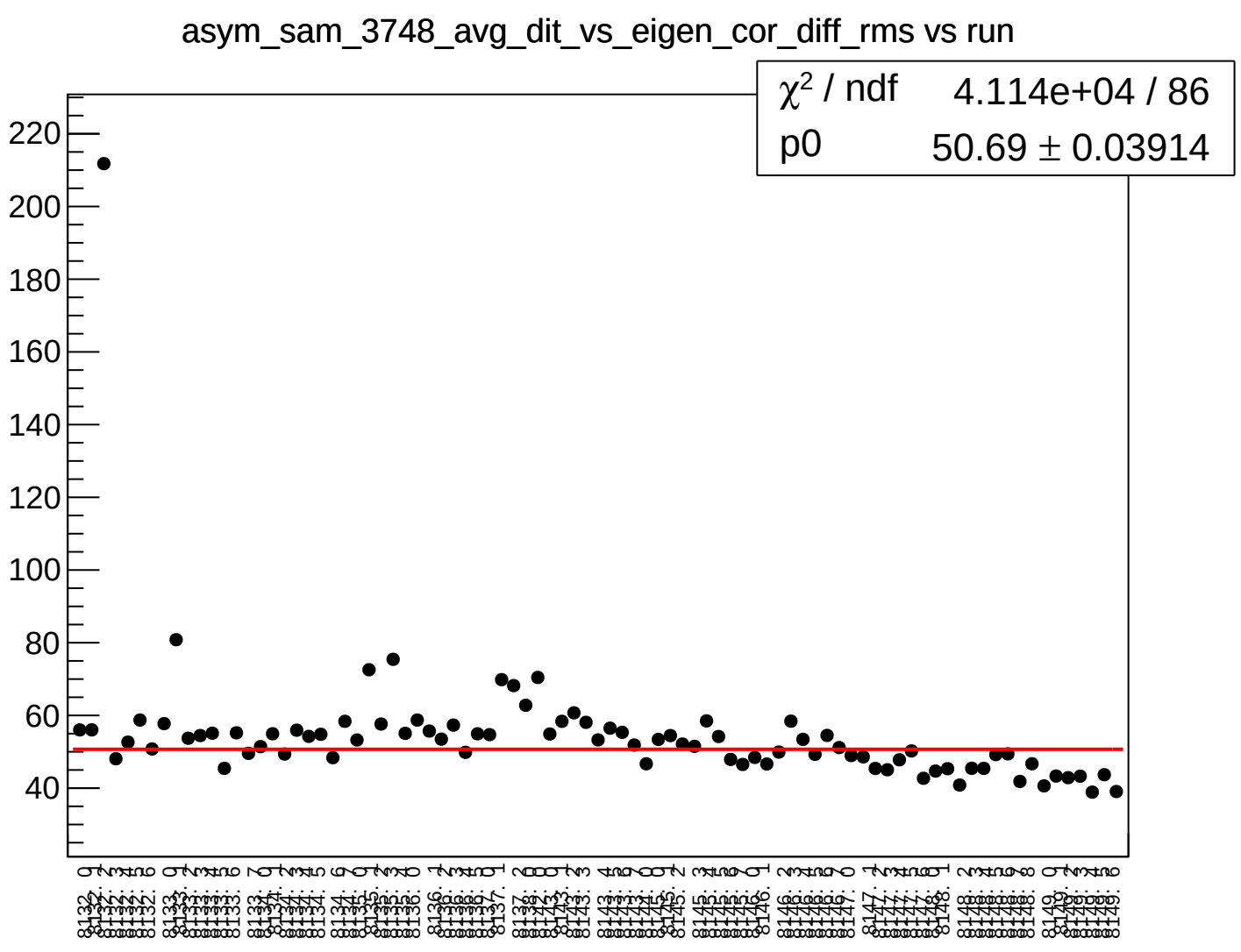

asym_sam_3748_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.442e+05 / 86
p0 1.012e−10 ± 1.15e−13
0.12
0.1
0.08
0.06
0.04
0.02
0

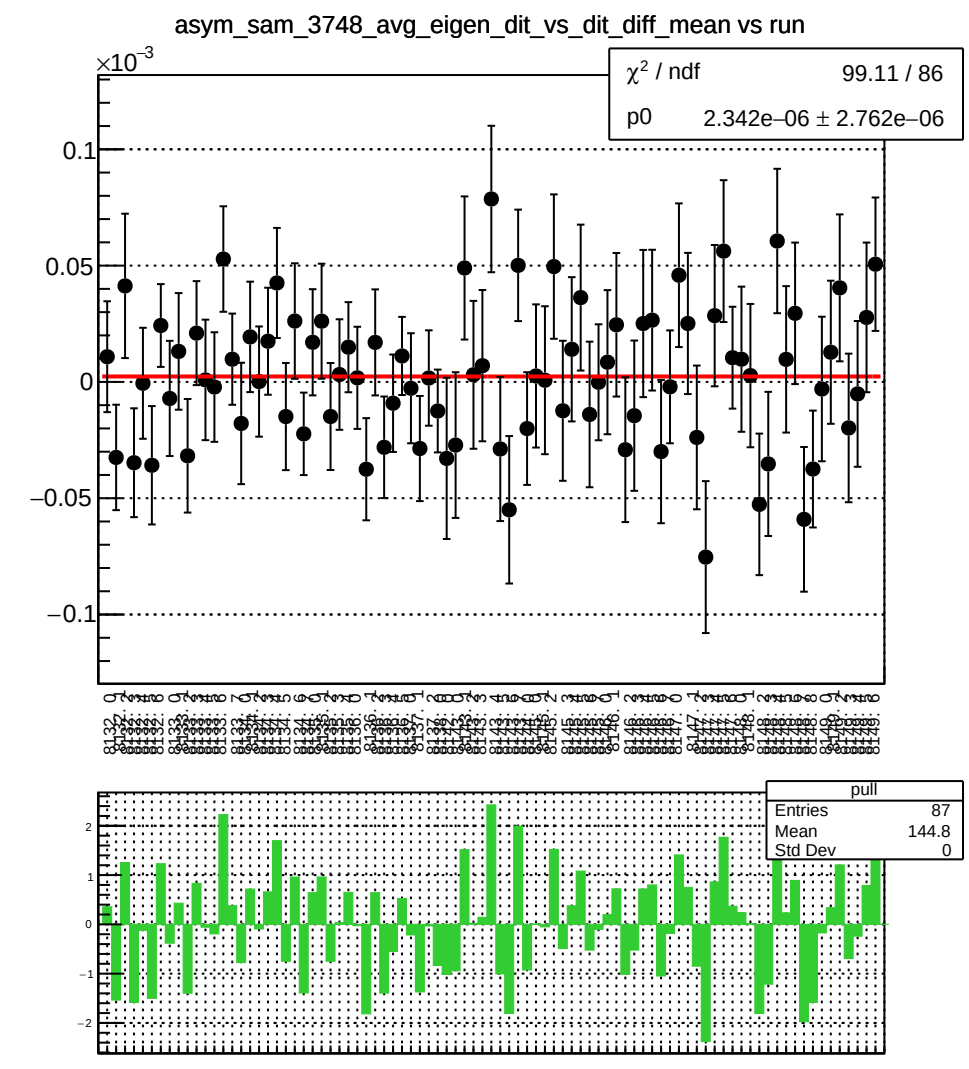

asym_sam_3748_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 113 / 86
p0 −0.04053 ± 0.05535
pull
Entries 87
Mean 1893
Std Dev 0

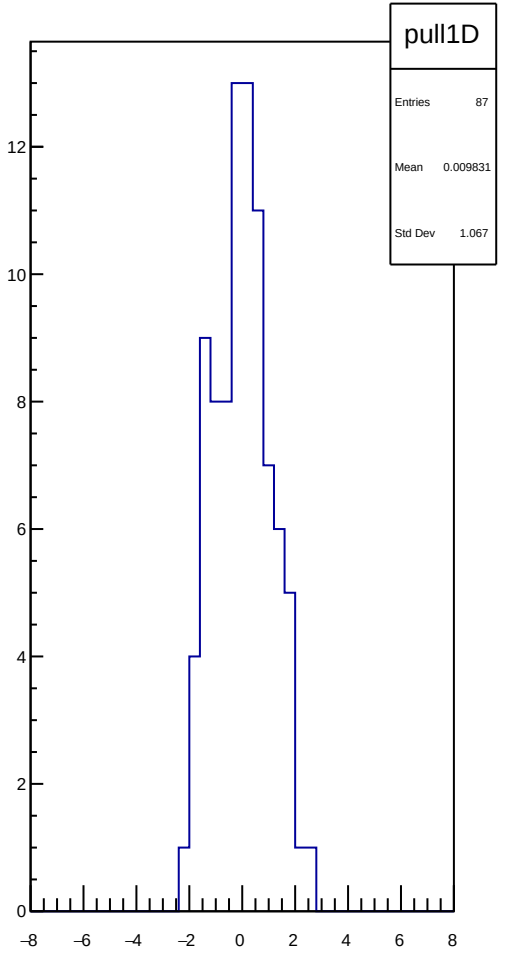

pull1D
Entries 87
Mean 0.004021
Std Dev 1.14

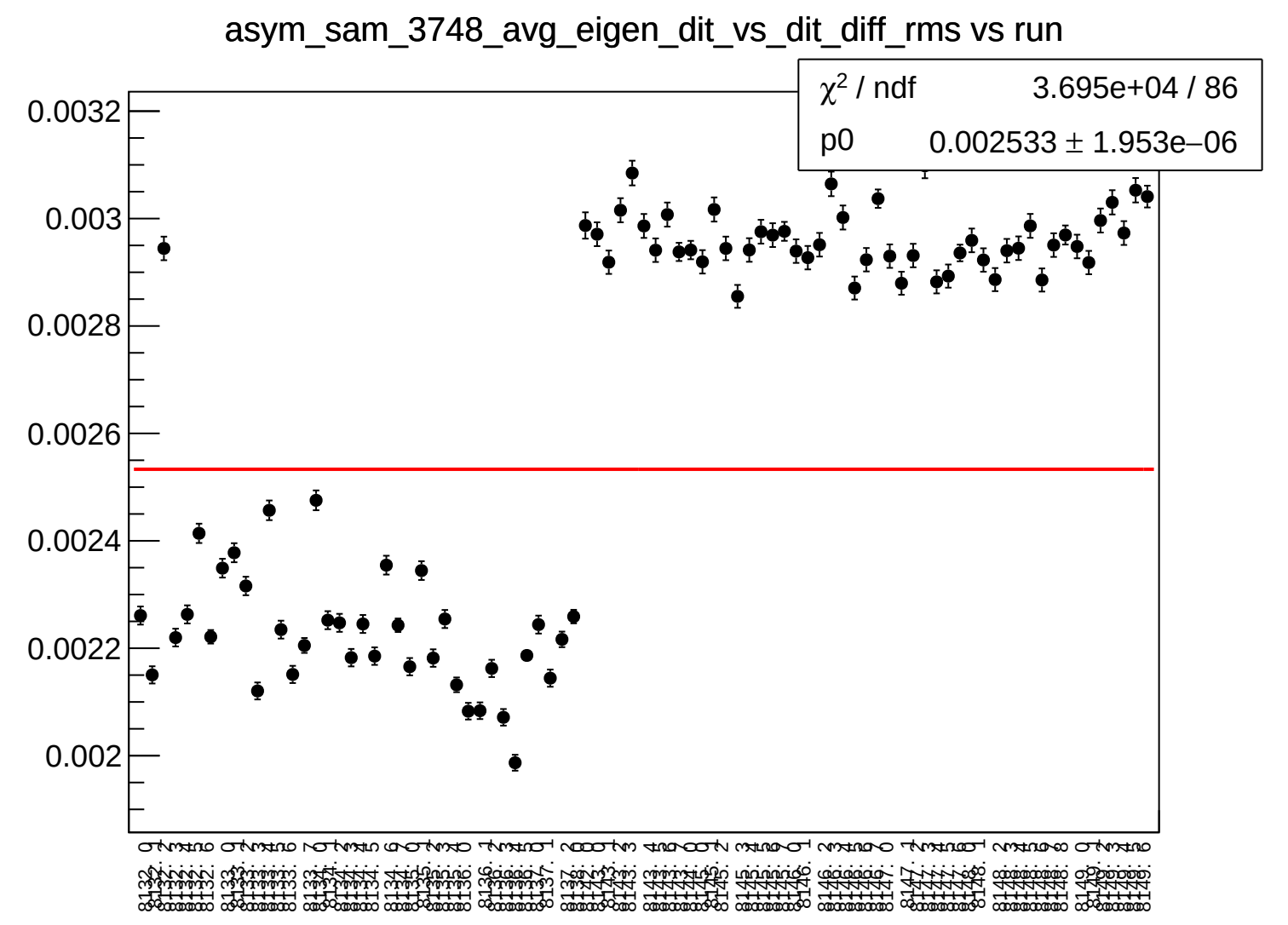

asym_sam_3748_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.114e+04 / 86
p0 50.69 ± 0.03914
220
200
180
160
140
120
100
80
60
40

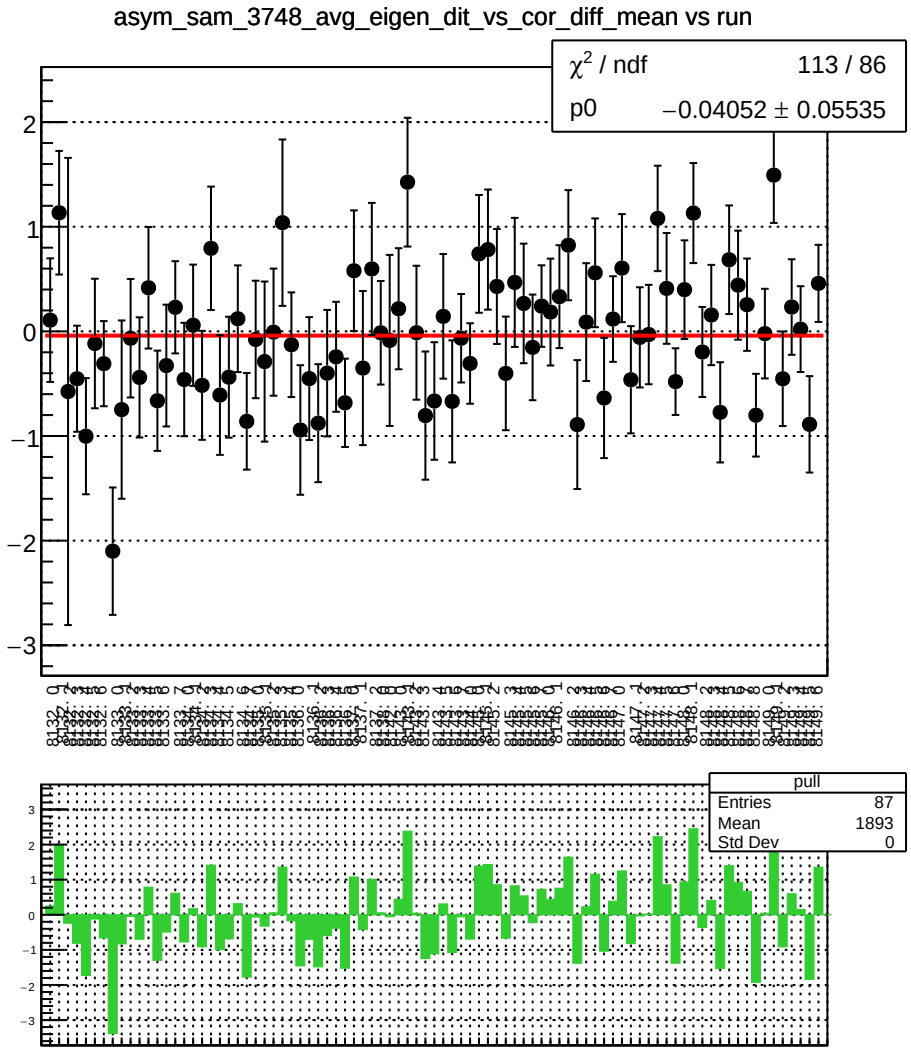

asym_sam_3748_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 113 / 86
p0 −0.04053 ± 0.05535
pull
Entries 87
Mean 1893
Std Dev 0
pull1D
Entries 87
Mean 0.004021
Std Dev 1.14

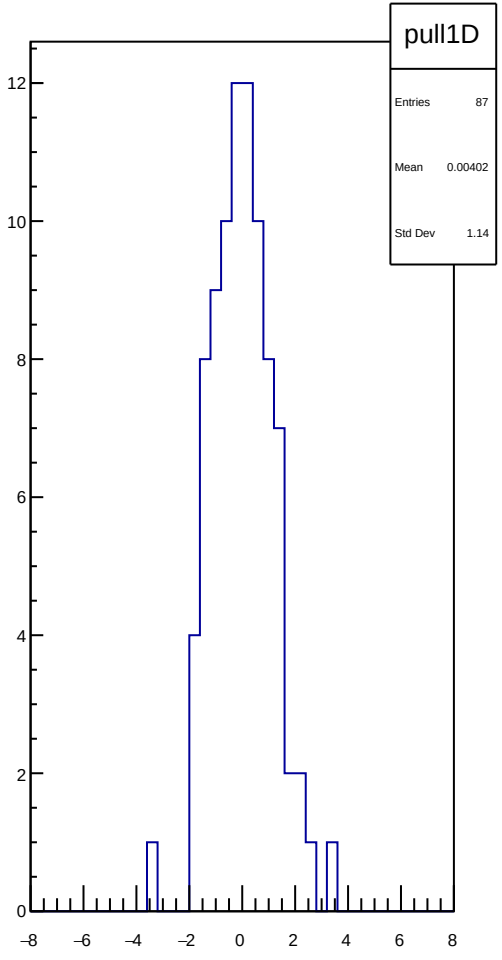

asym_sam_3748_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.114e+04 / 86
p0 50.69 ± 0.03914
220
200
180
160
140
120
100
80
60
40

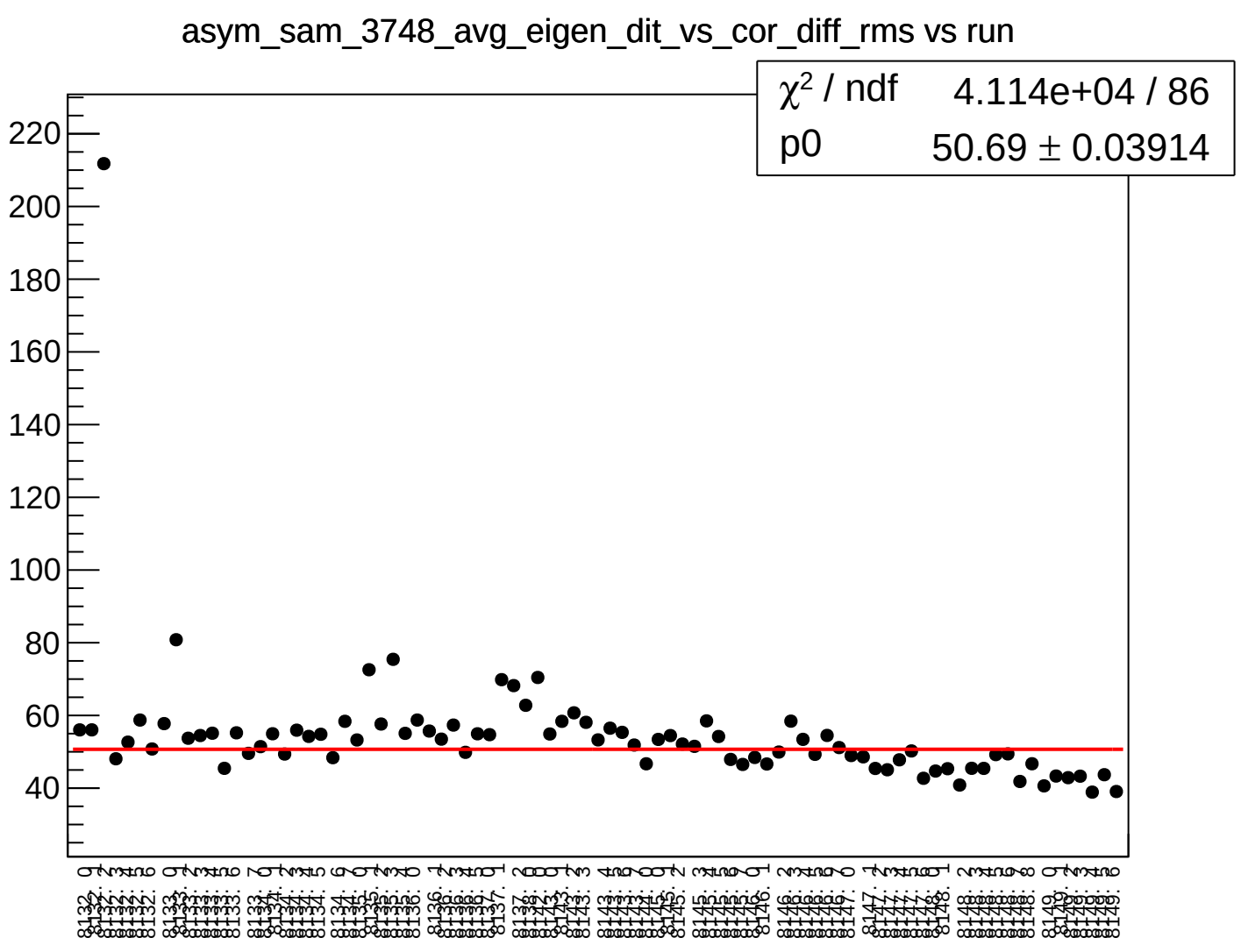

asym_sam_3748_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.11 / 86
p0 2.342e−06 ± 2.762e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 87
Mean 144.8
Std Dev 0
2
1
0
−1
−2

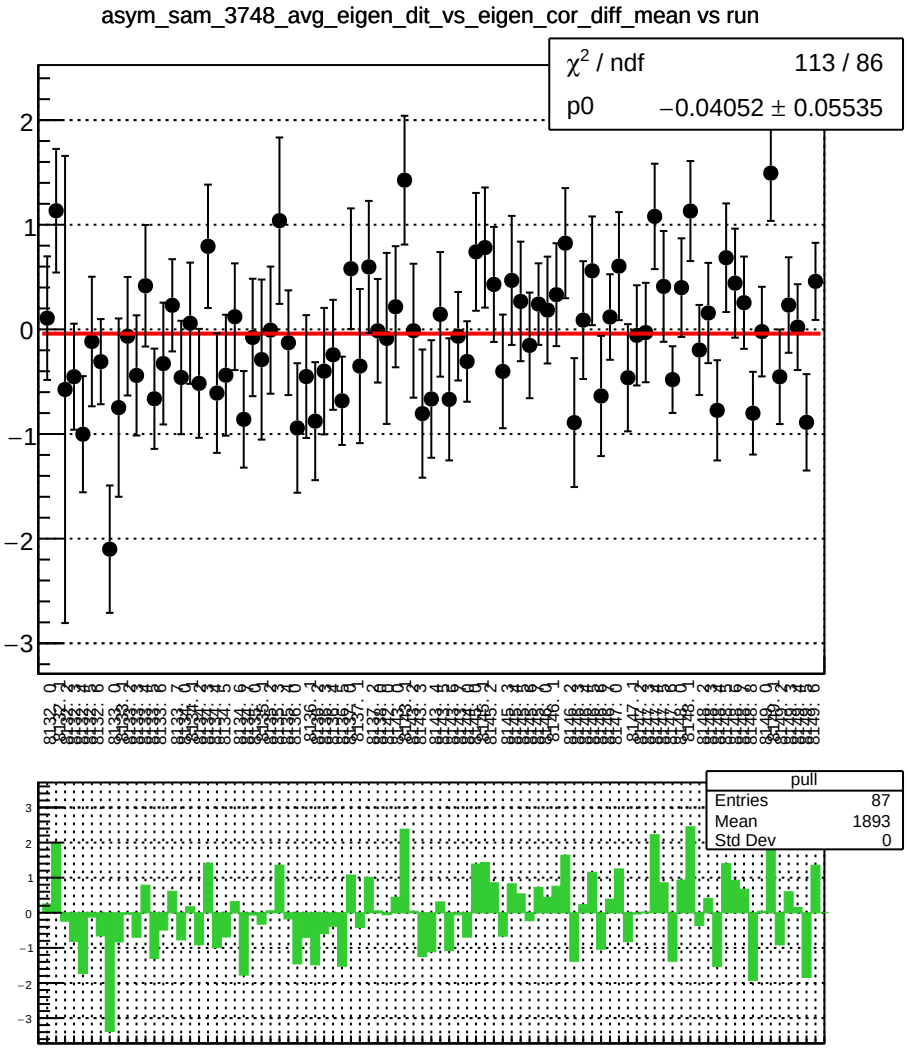

pull1D
Entries 87
Mean 0.009831
Std Dev 1.067
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

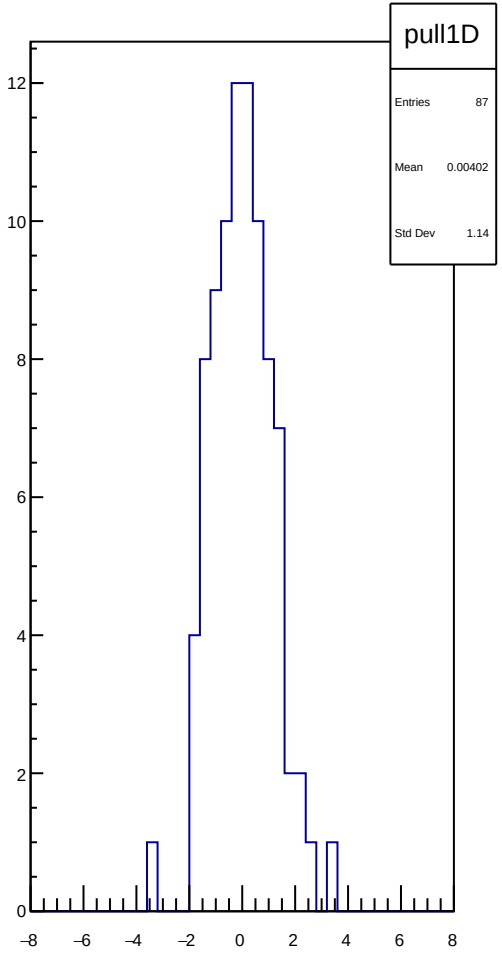

asym_sam_3748_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.695e+04 / 86
p0 0.002533 ± 1.953e−06
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002

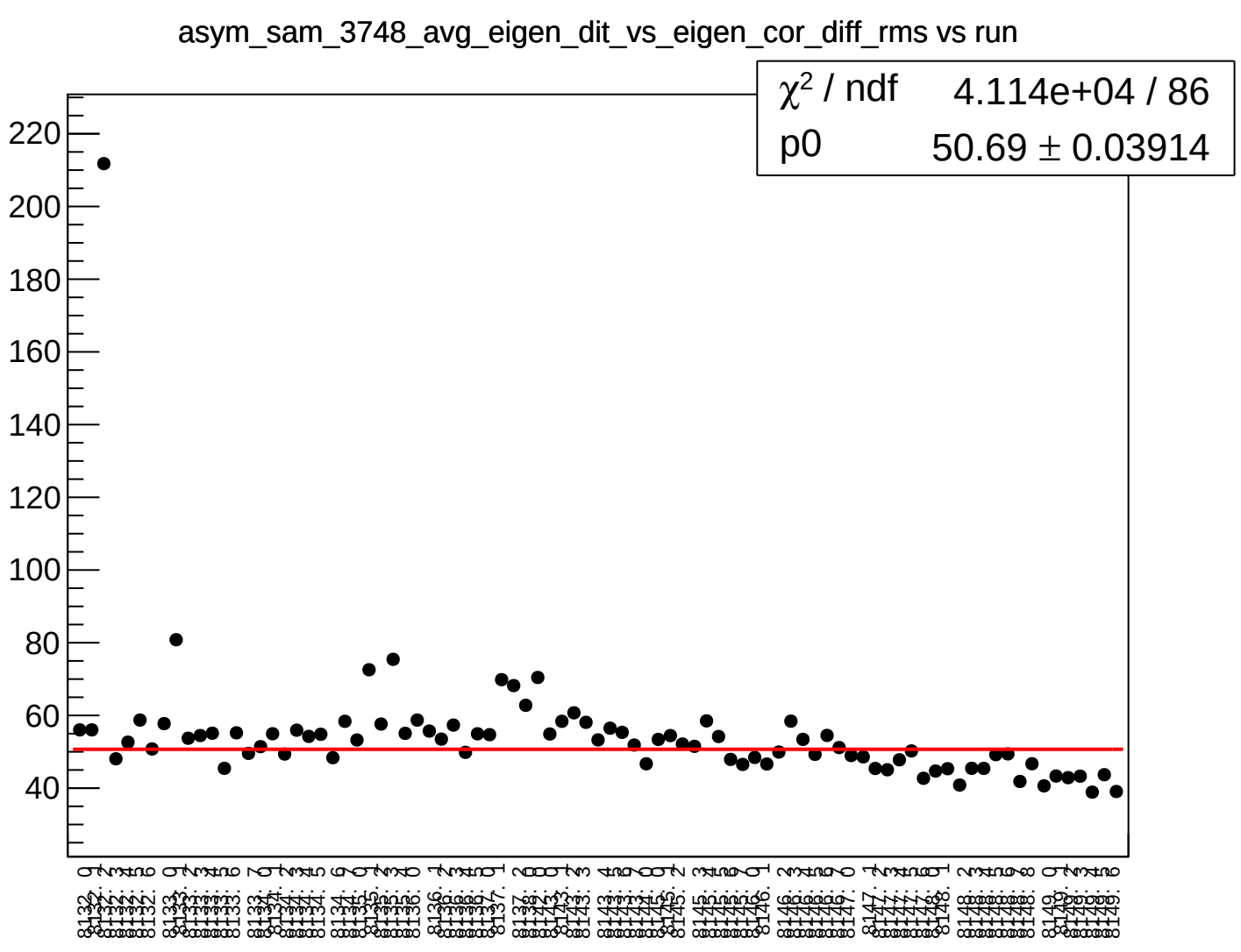

asym_sam_3748_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 113 / 86
p0 −0.04052 ± 0.05535
pull
Entries 87
Mean 1893
Std Dev 0

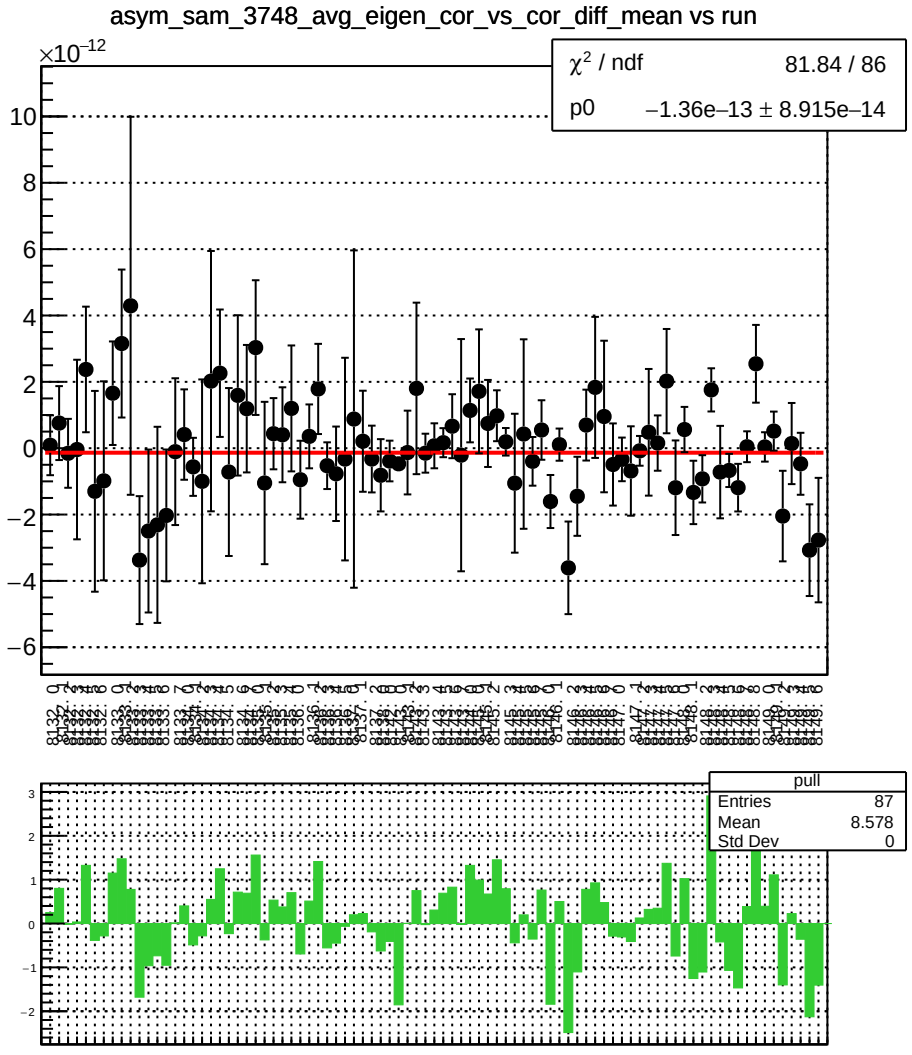

pull1D
Entries 87
Mean 0.00402
Std Dev 1.14

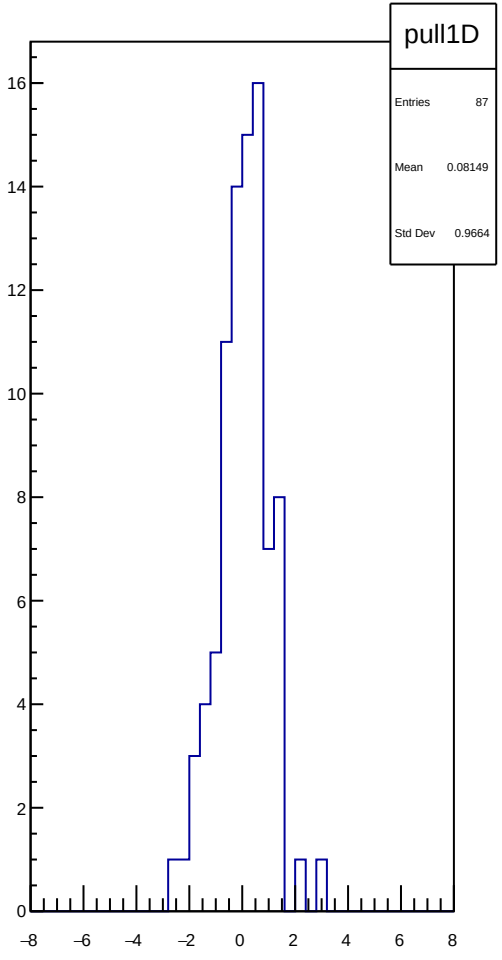

asym_sam_3748_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.114e+04 / 86
p0 50.69 ± 0.03914
220
200
180
160
140
120
100
80
60
40

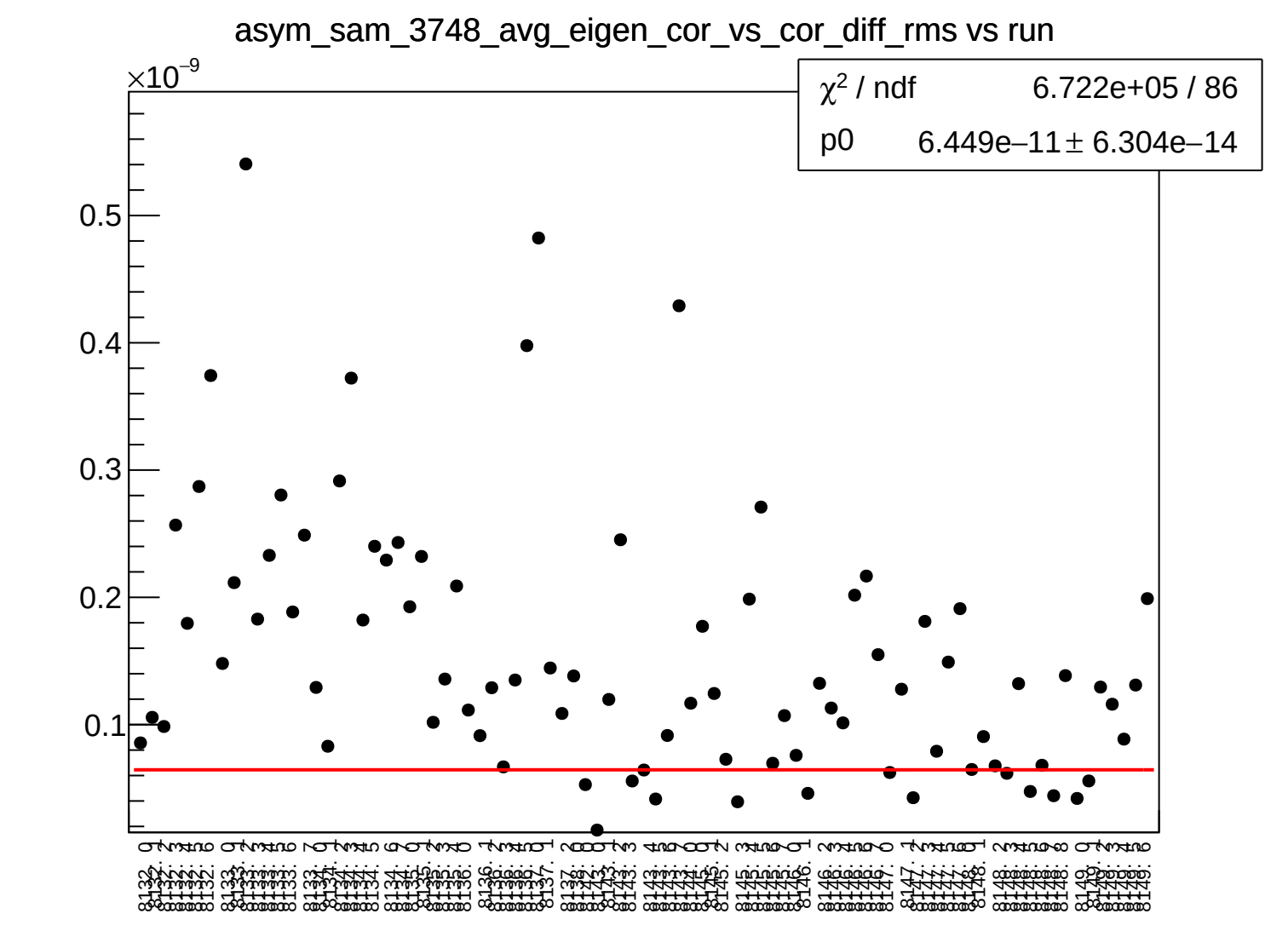

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 113 / 86
p0 −0.04052 ± 0.05535
pull
Entries 87
Mean 1893
Std Dev 0

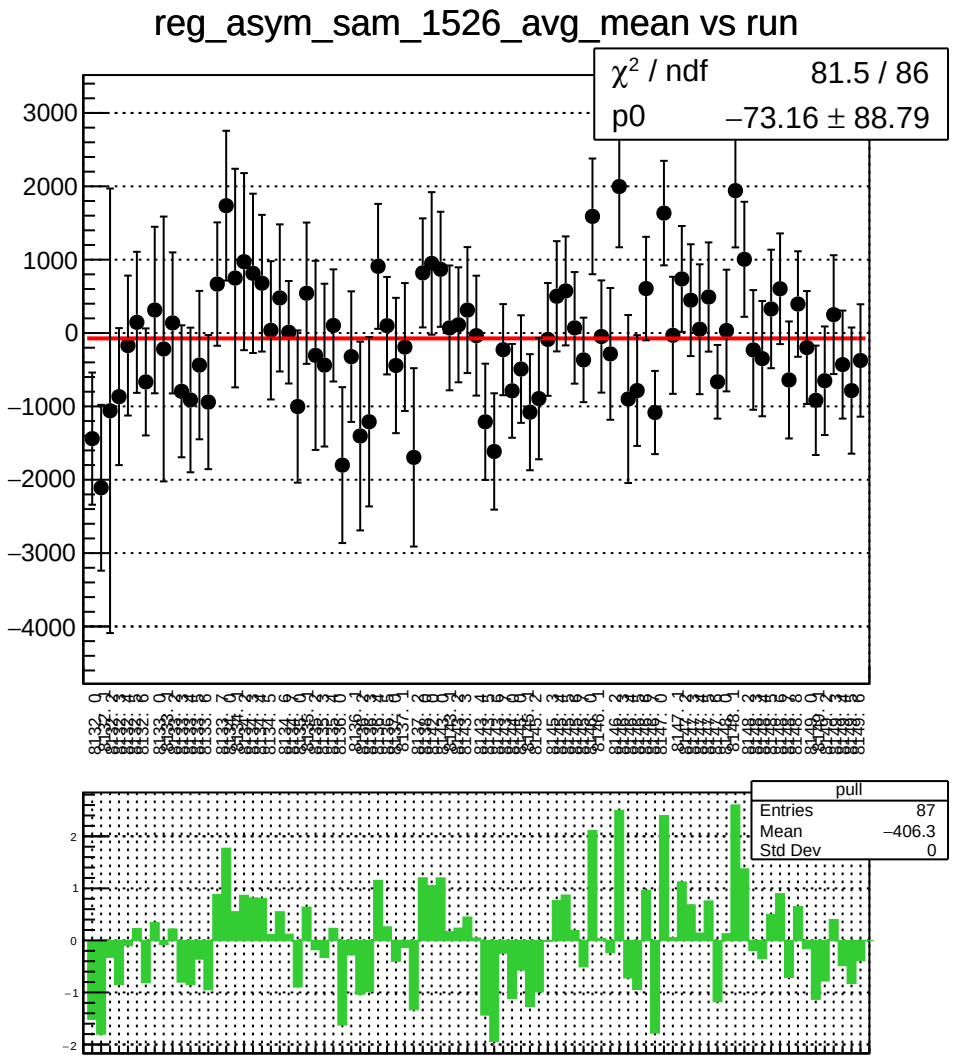

pull1D
Entries 87
Mean 0.00402
Std Dev 1.14

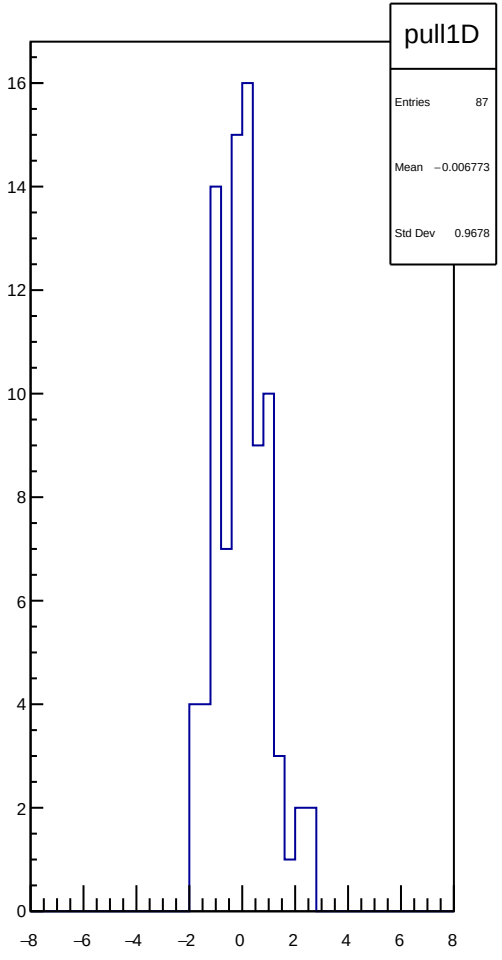

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.114e+04 / 86
p0 50.69 ± 0.03914
220
200
180
160
140
120
100
80
60
40

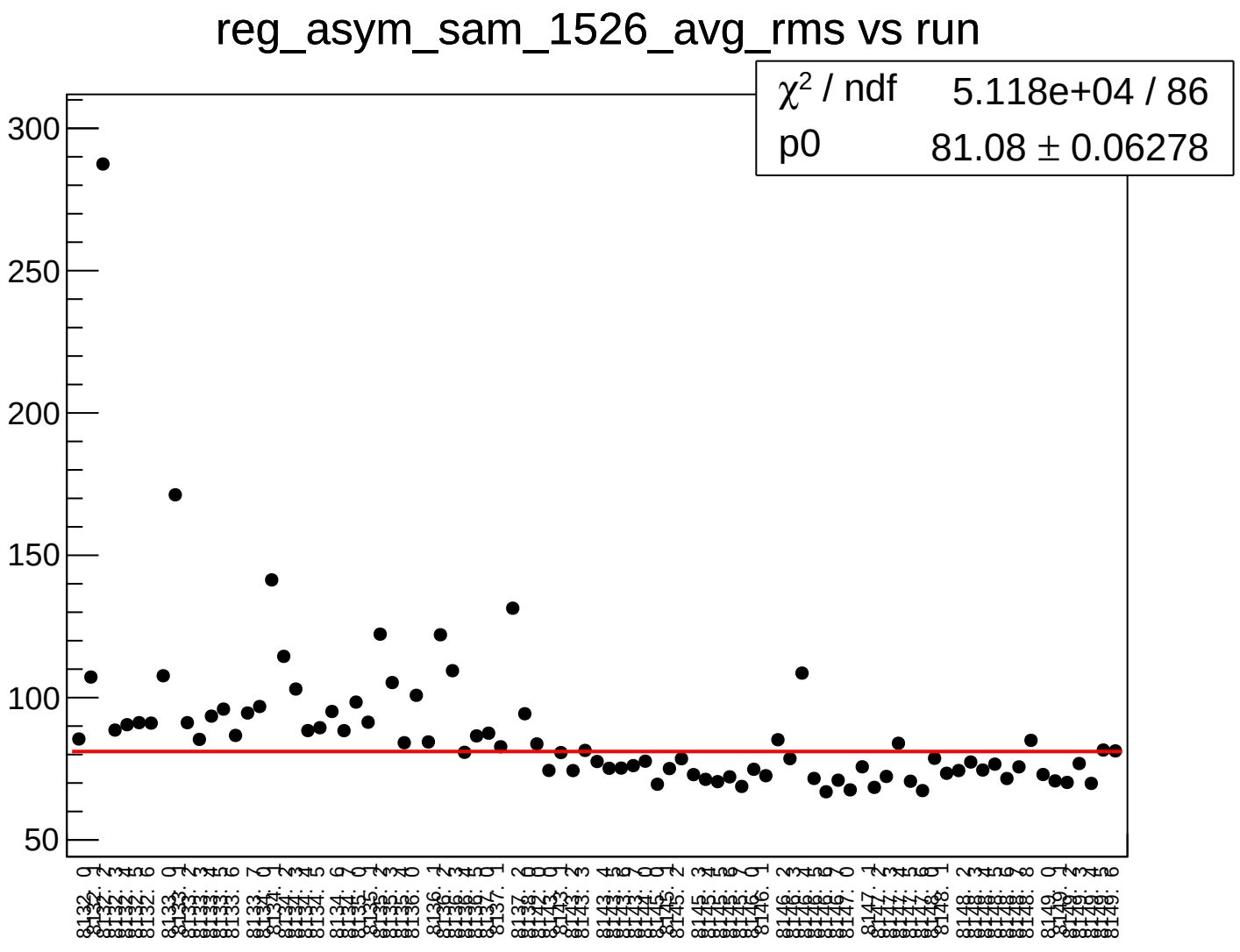

asym_sam_3748_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.84 / 86
p0 −1.36e−13 ± 8.915e−14
pull
Entries 87
Mean 8.578
Std Dev 0

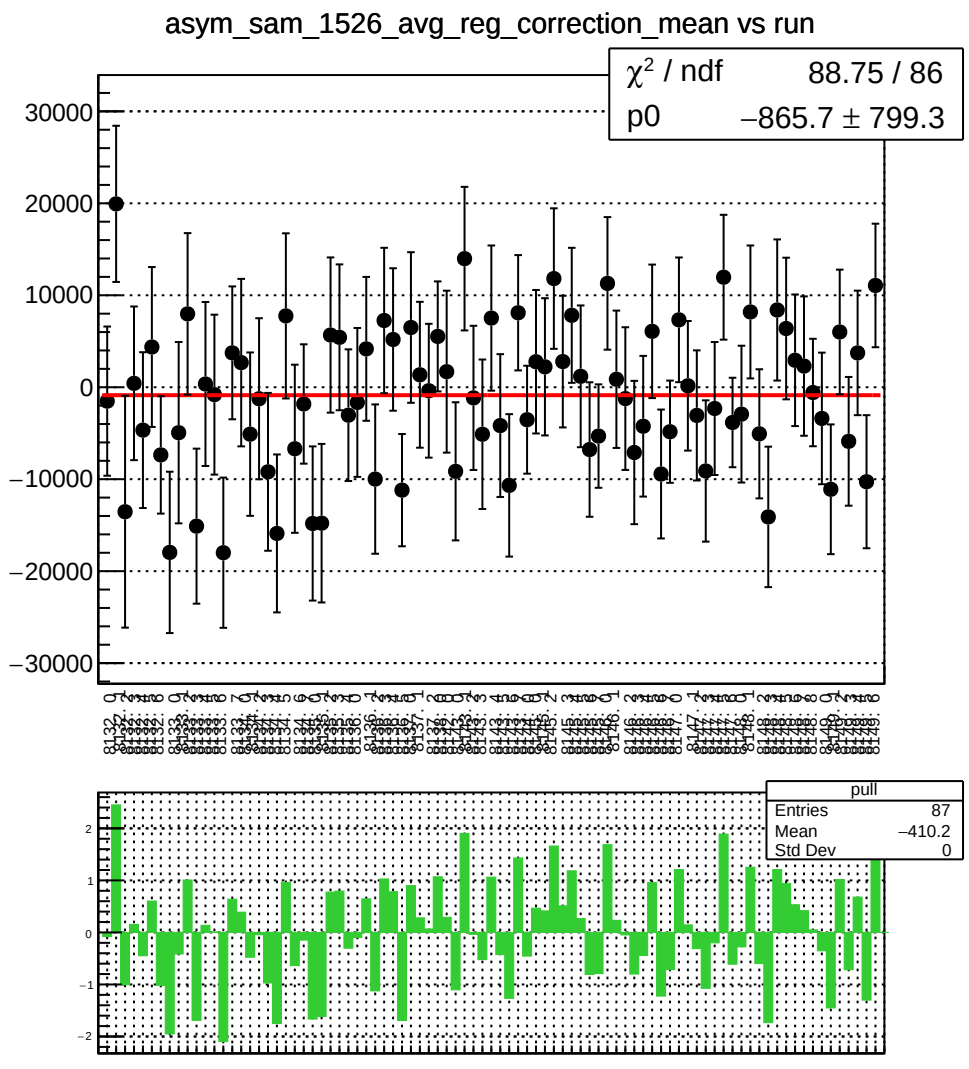

pull1D
Entries 87
Mean 0.08149
Std Dev 0.9664

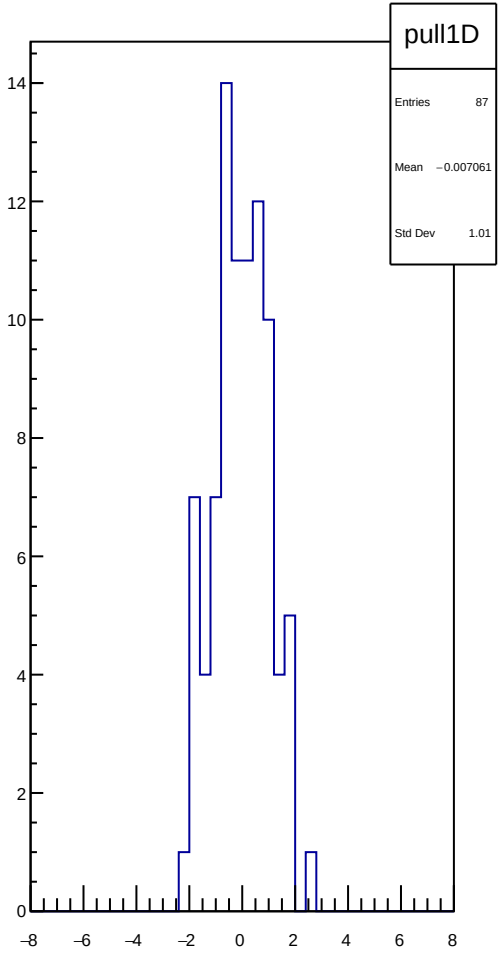

asym_sam_3748_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.722e+05 / 86
p0 6.449e−11 ± 6.304e−14
0.5
0.4
0.3
0.2
0.1

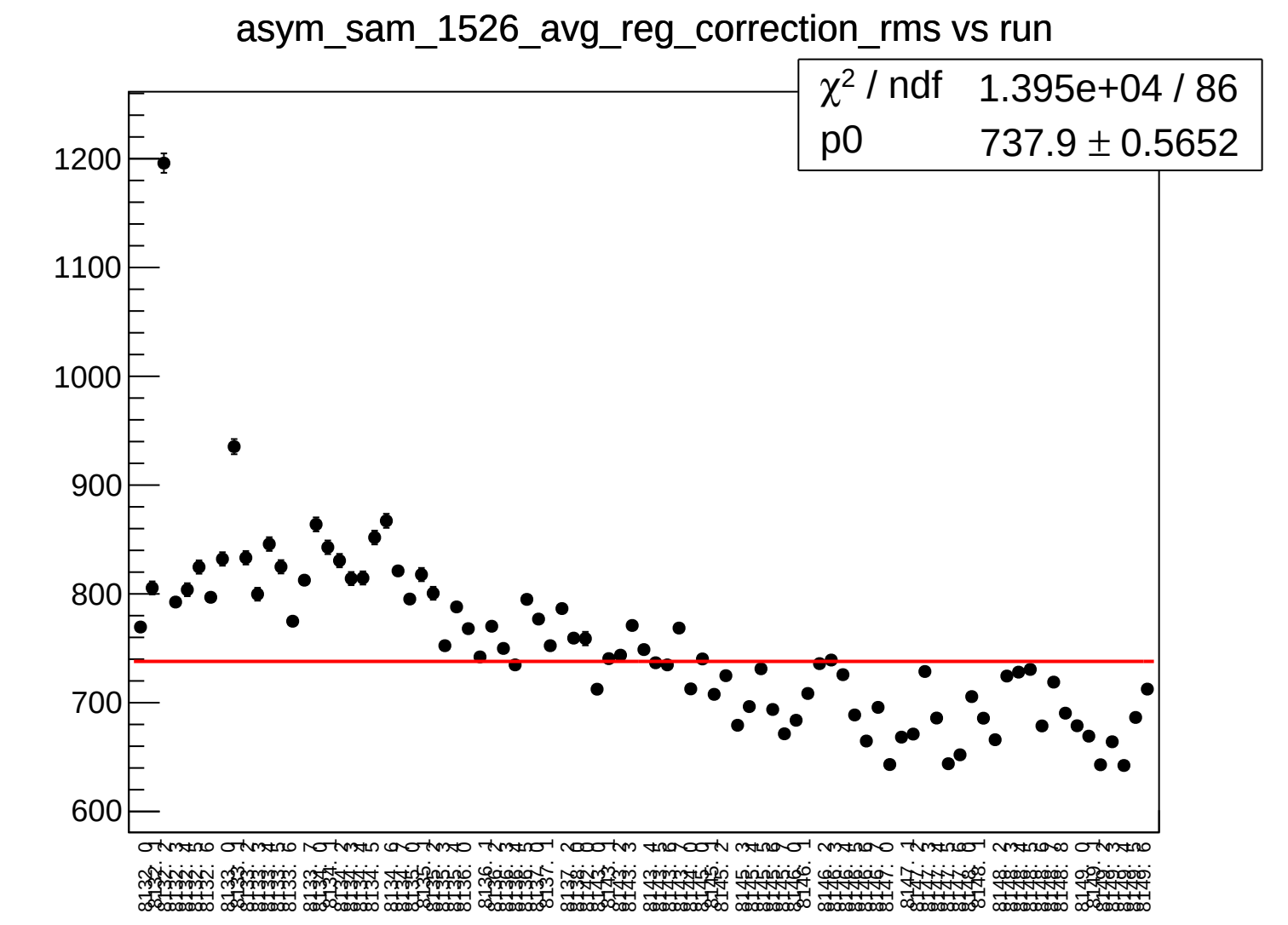

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 81.5 / 86
p0 −73.16 ± 88.79
pull
Entries 87
Mean −406.3
Std Dev 0

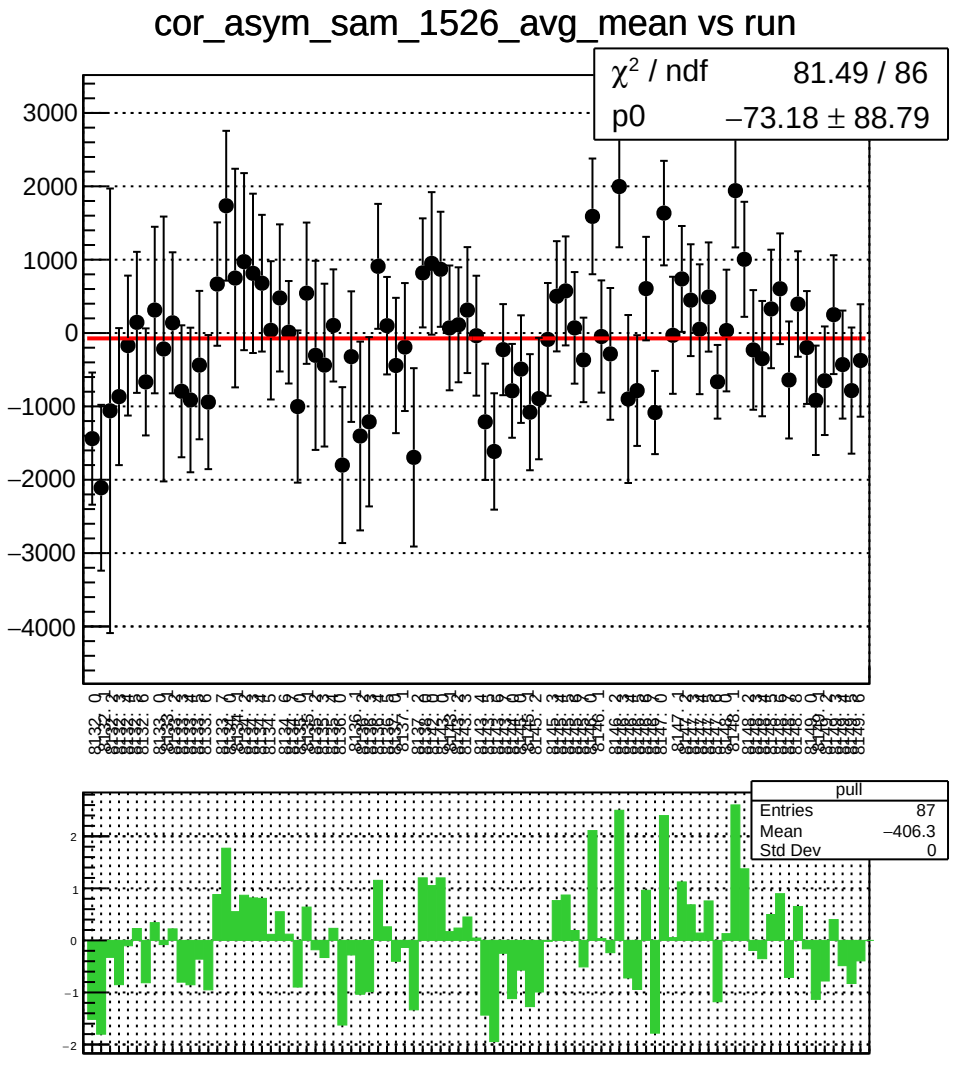

pull1D
Entries 87
Mean −0.006773
Std Dev 0.9678

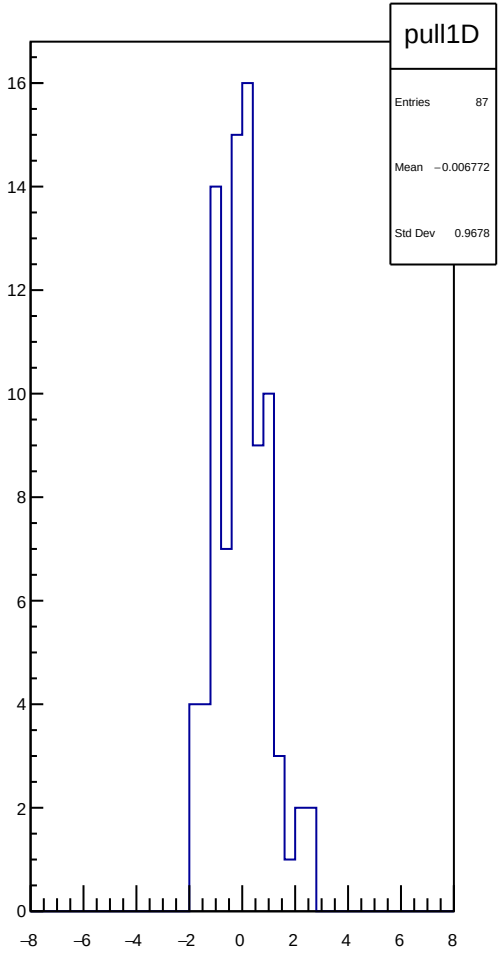

reg_asym_sam_1526_avg_rms vs run
χ² / ndf 5.118e+04 / 86
p0 81.08 ± 0.06278
300
250
200
150
100
50


asym_sam_1526_avg_reg_correction_mean vs run
χ² / ndf 88.75 / 86
p0 −865.7 ± 799.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean −410.2
Std Dev 0
2
1
0
−1
−2

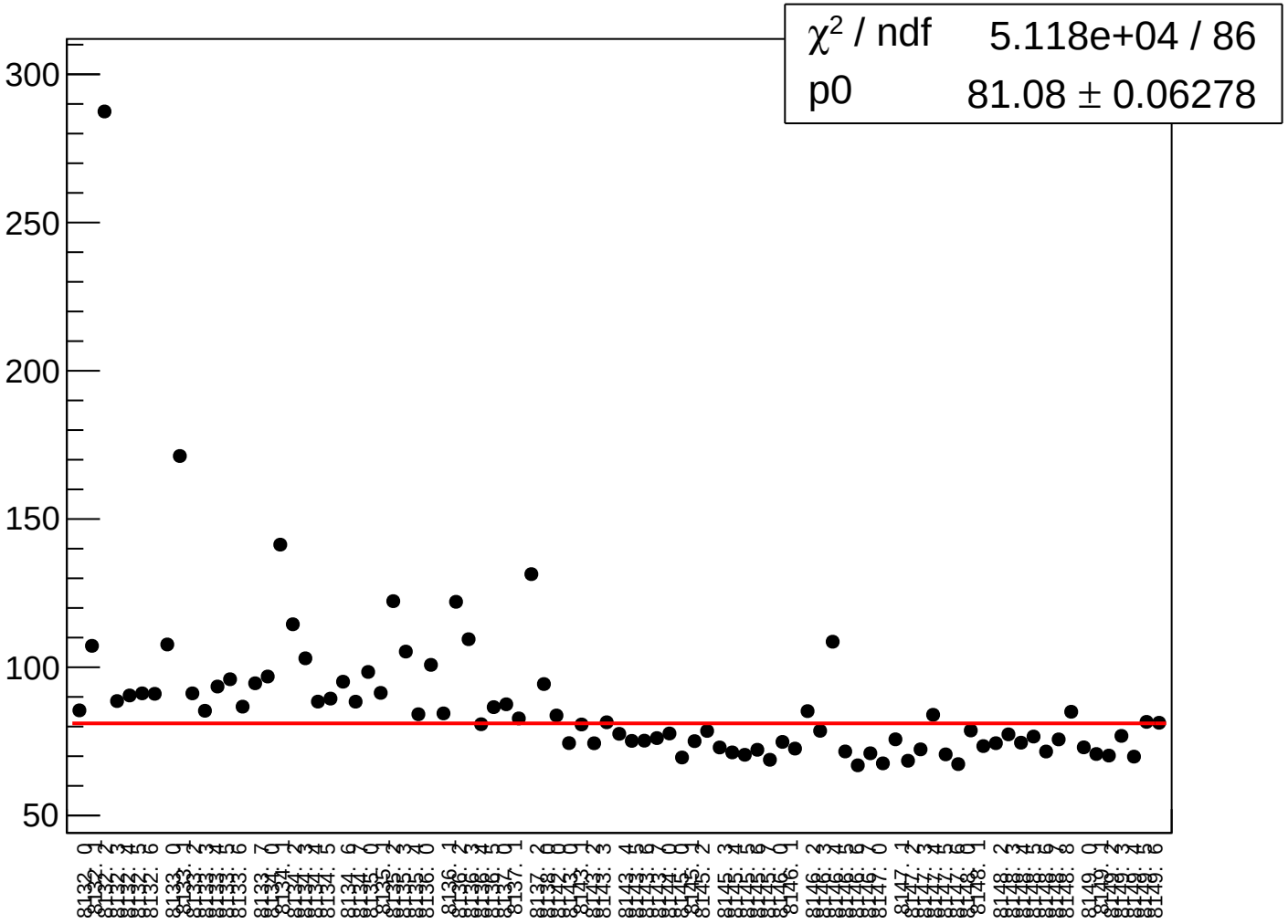

pull1D
Entries 87
Mean −0.007061
Std Dev 1.01
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

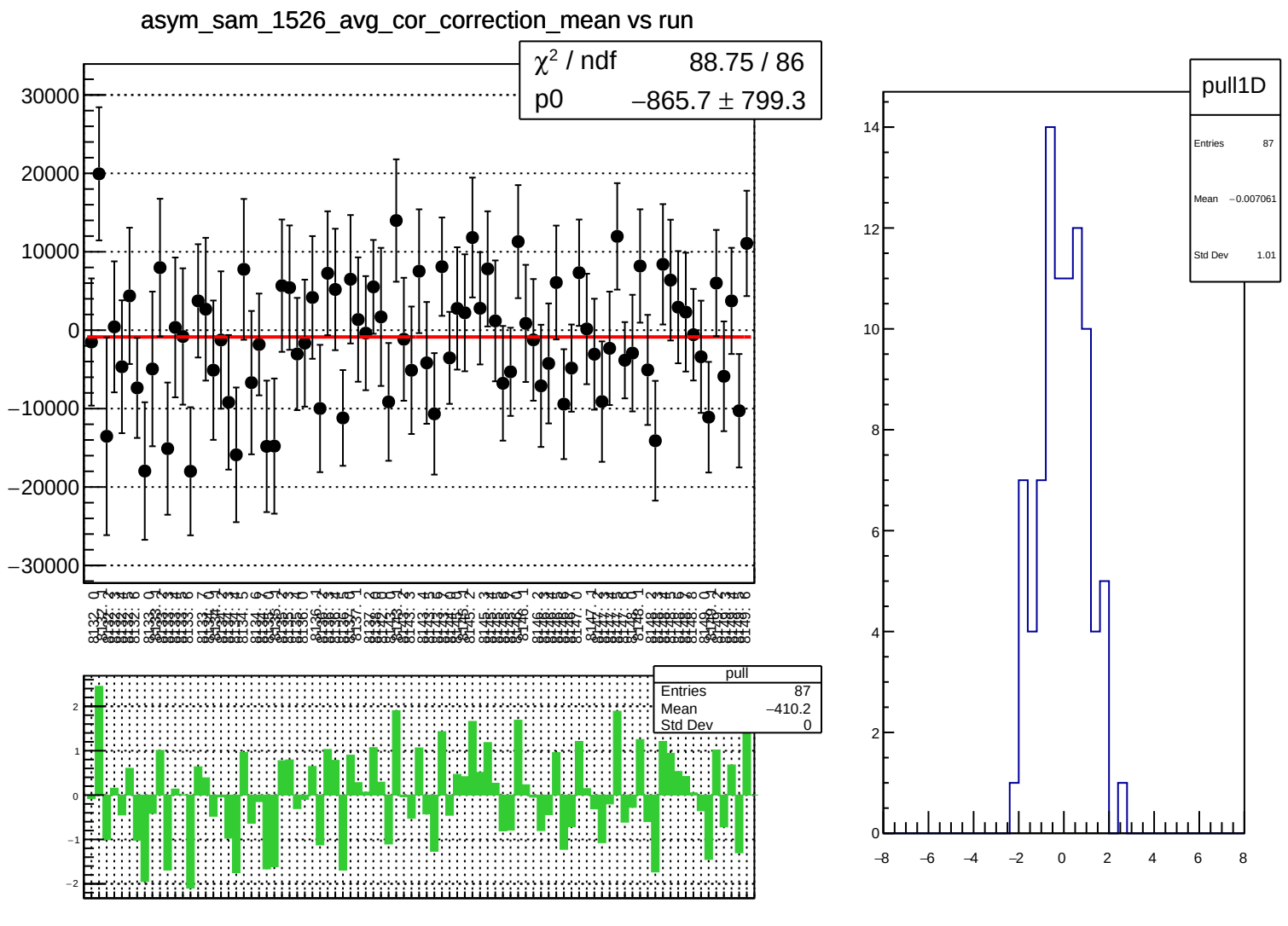

asym_sam_1526_avg_reg_correction_rms vs run
χ² / ndf 1.395e+04 / 86
p0 737.9 ± 0.5652
1200
1100
1000
900
800
700
600

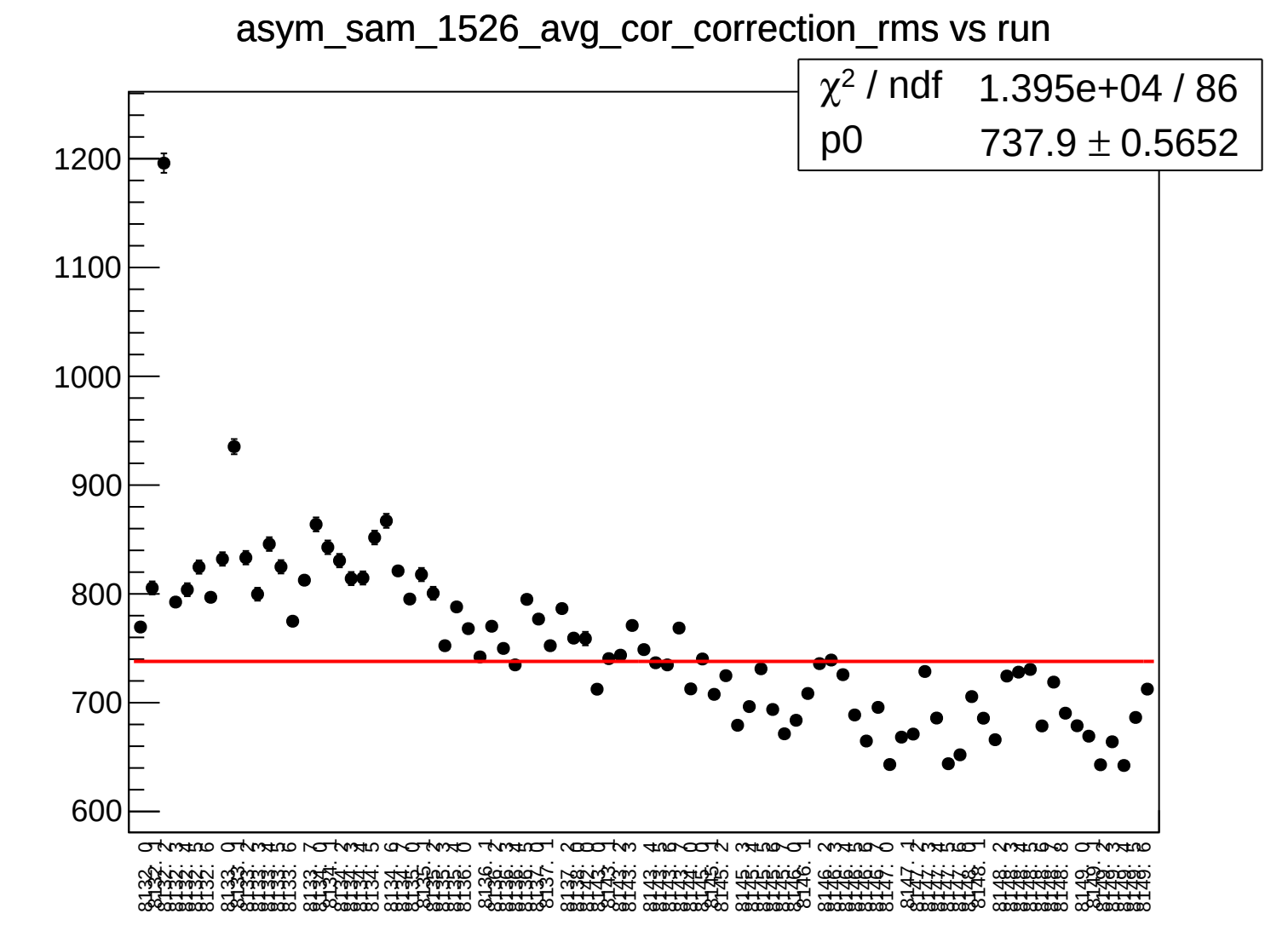

cor_asym_sam_1526_avg_mean vs run
χ² / ndf 81.49 / 86
p0 −73.18 ± 88.79
pull
Entries 87
Mean −406.3
Std Dev 0

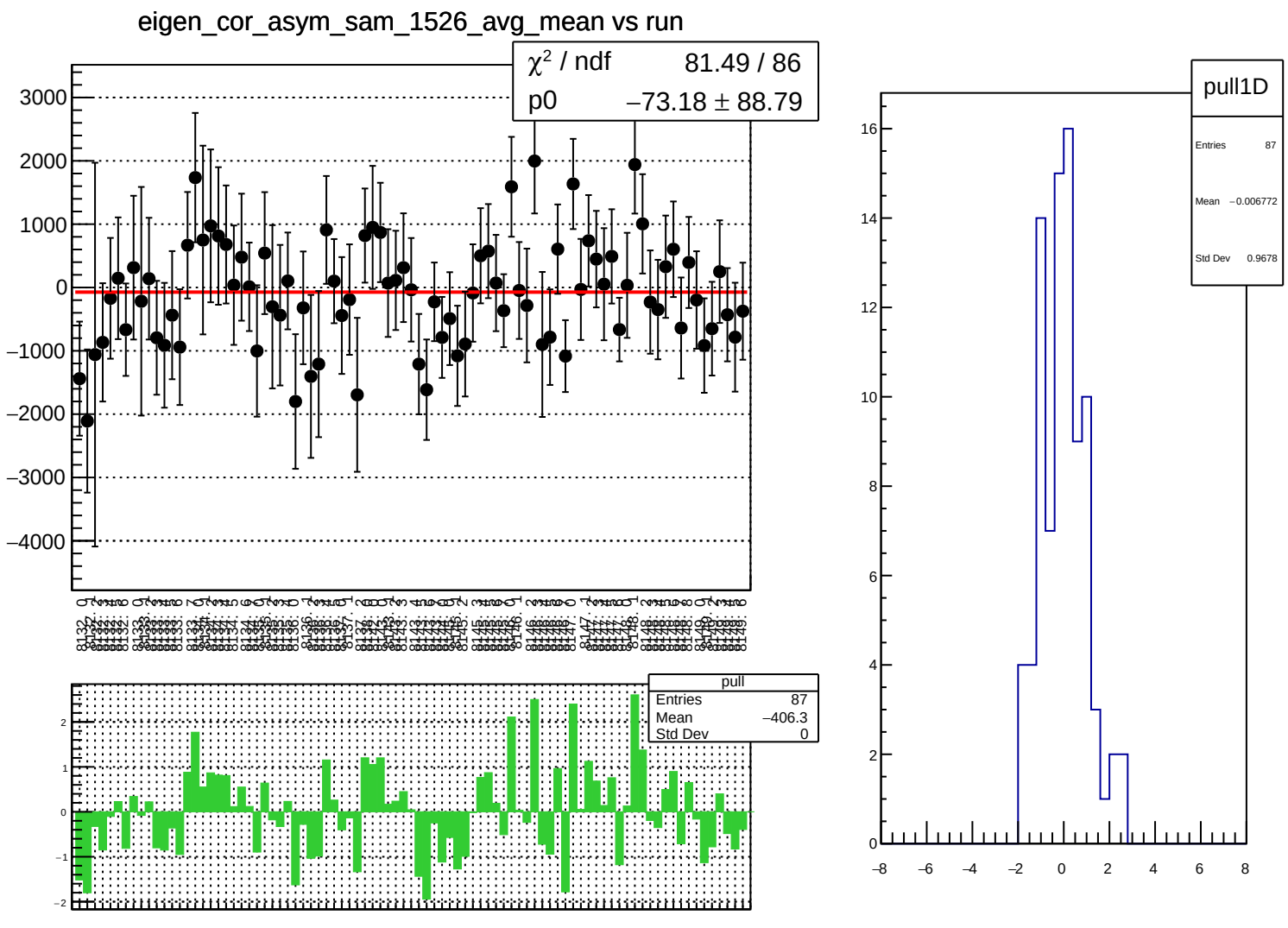

pull1D
Entries 87
Mean −0.006772
Std Dev 0.9678

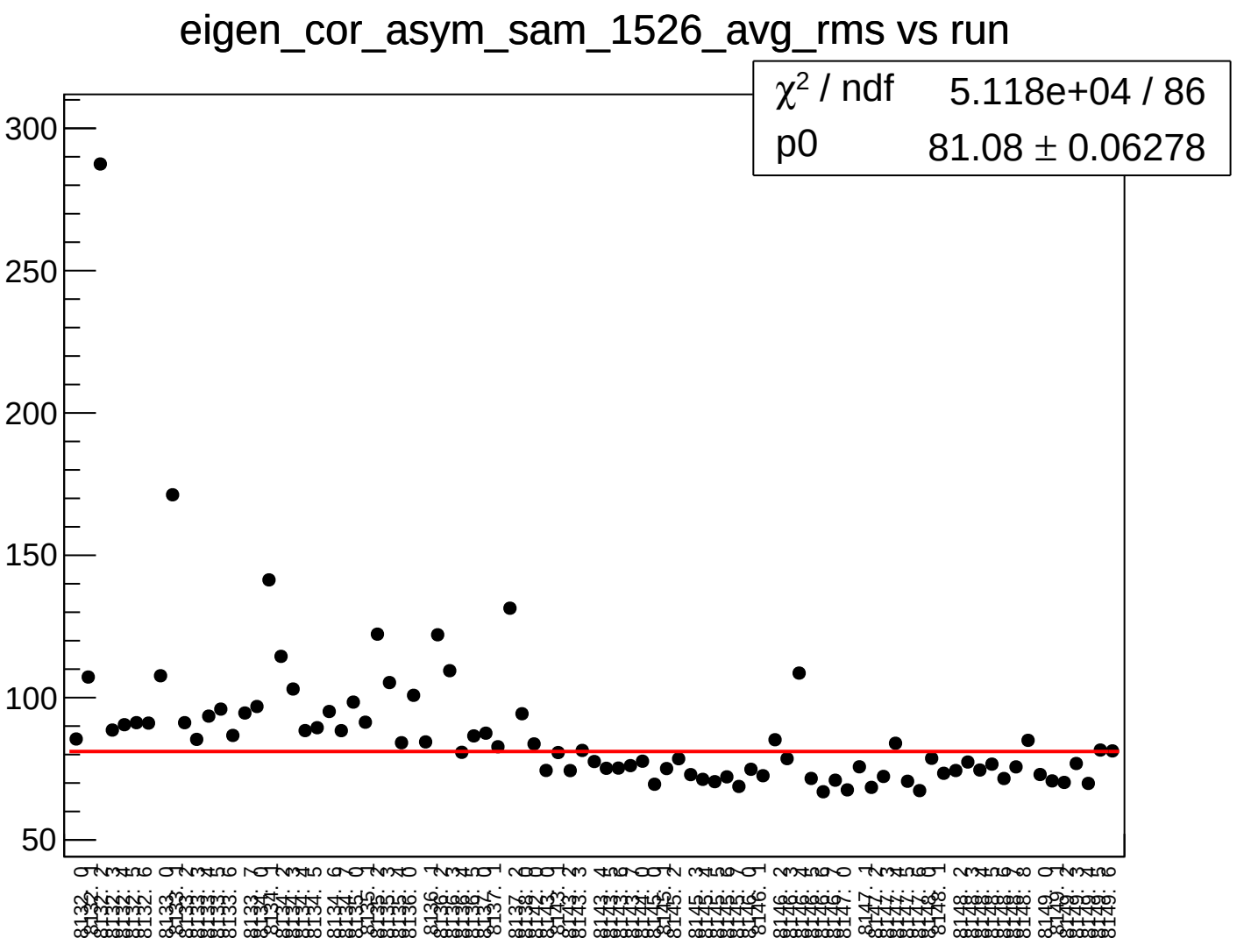
cor_asym_sam_1526_avg_rms vs run

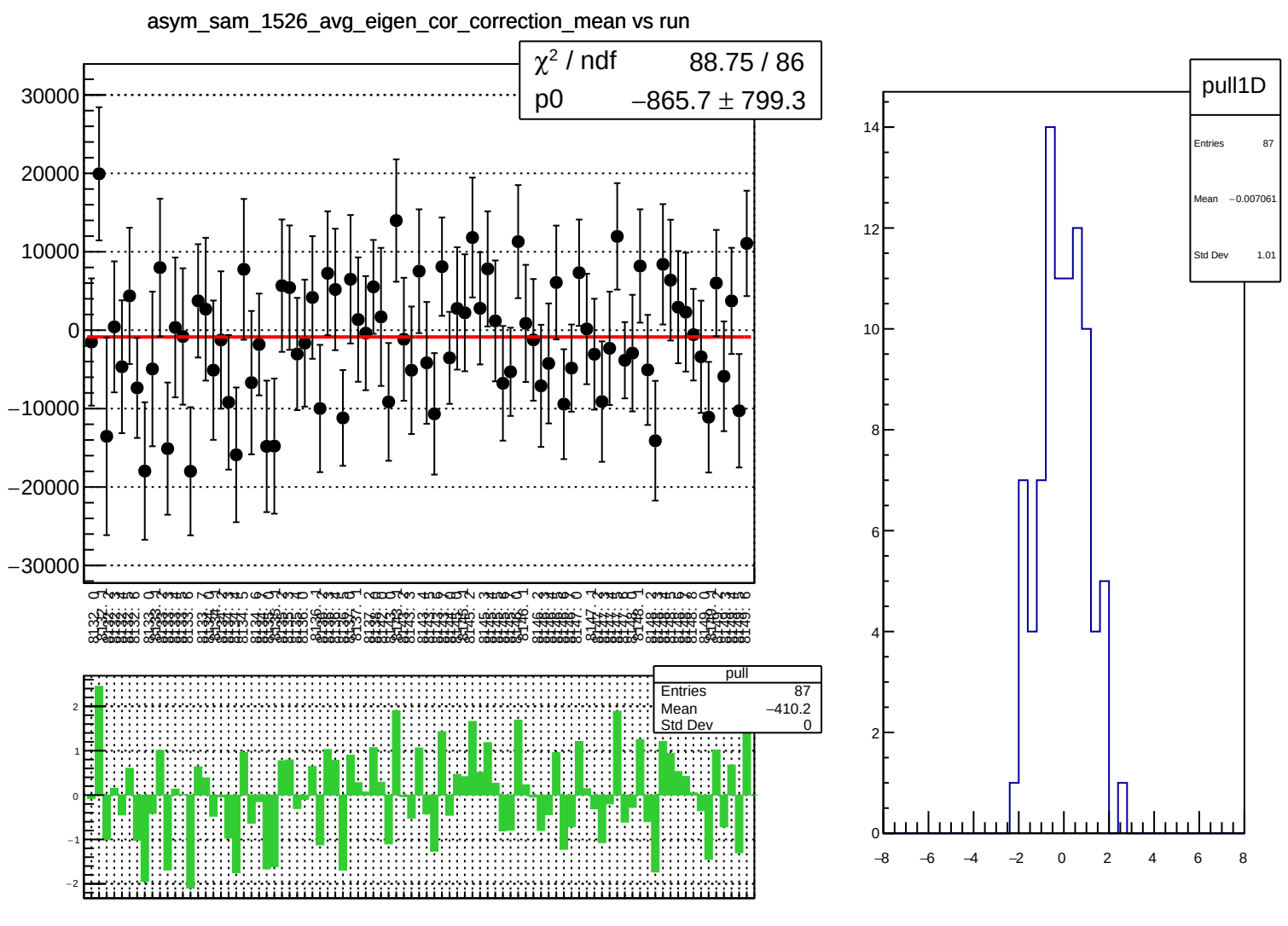


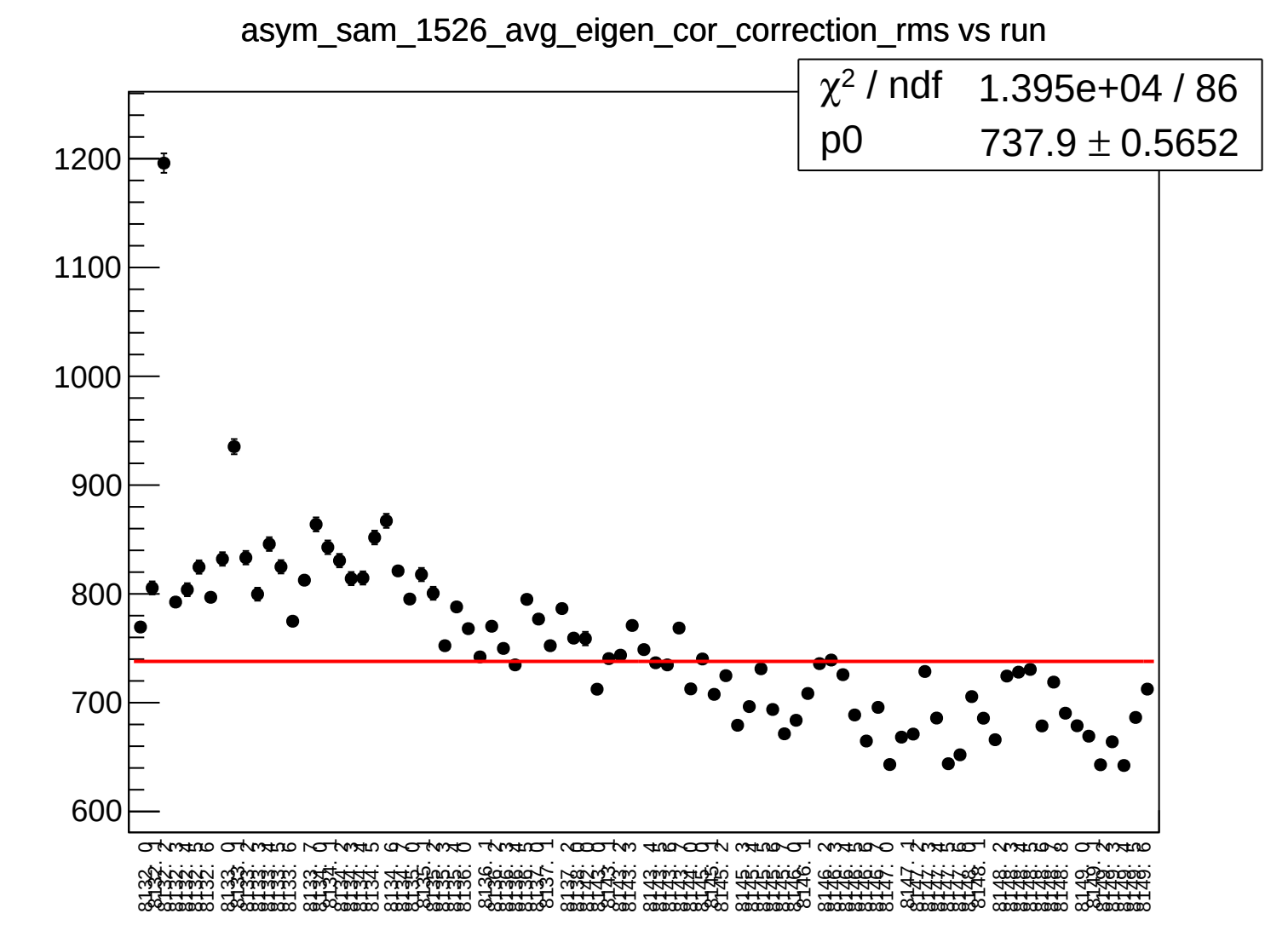

asym_sam_1526_avg_cor_correction_mean vs run
χ² / ndf 88.75 / 86
p0 −865.7 ± 799.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean −410.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.007061
Std Dev 1.01
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

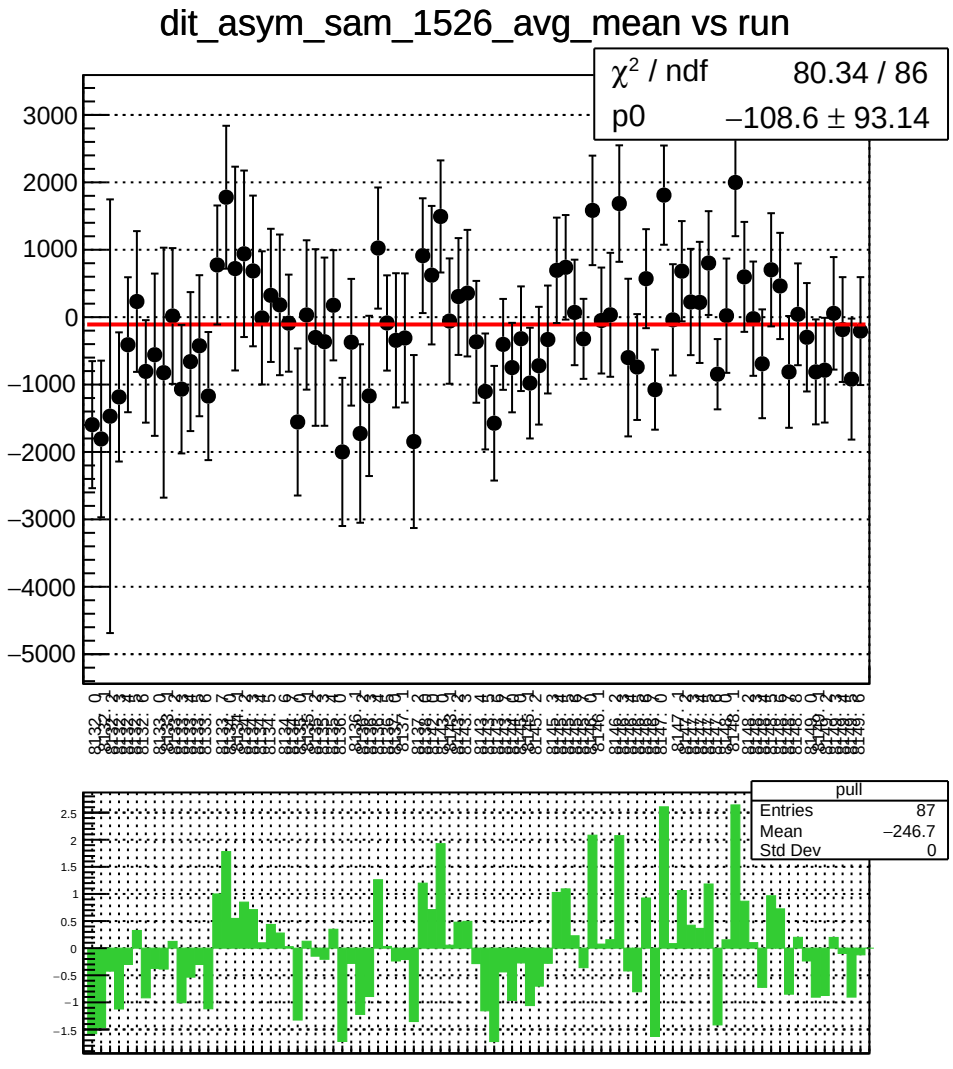

asym_sam_1526_avg_cor_correction_rms vs run
χ² / ndf 1.395e+04 / 86
p0 737.9 ± 0.5652
1200
1100
1000
900
800
700
600

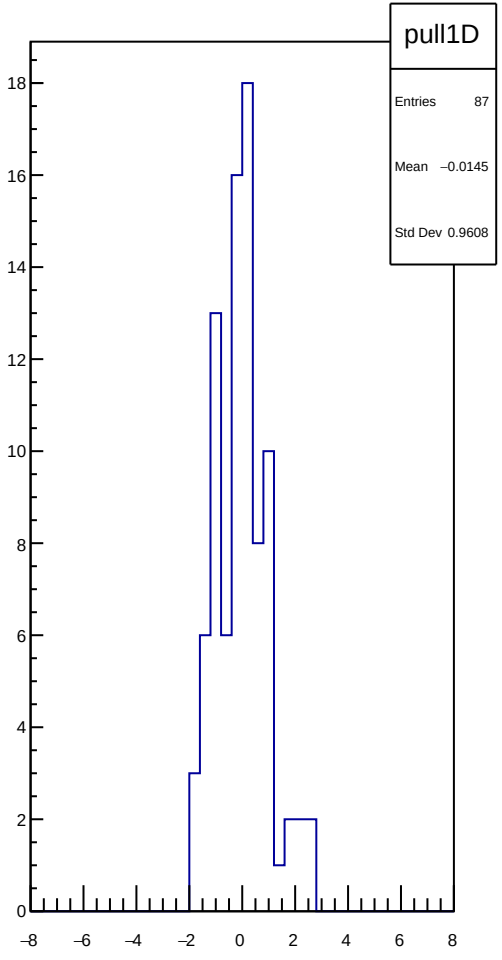

eigen_cor_asym_sam_1526_avg_mean vs run
χ² / ndf 81.49 / 86
p0 −73.18 ± 88.79
pull
Entries 87
Mean −406.3
Std Dev 0
pull1D
Entries 87
Mean −0.006772
Std Dev 0.9678

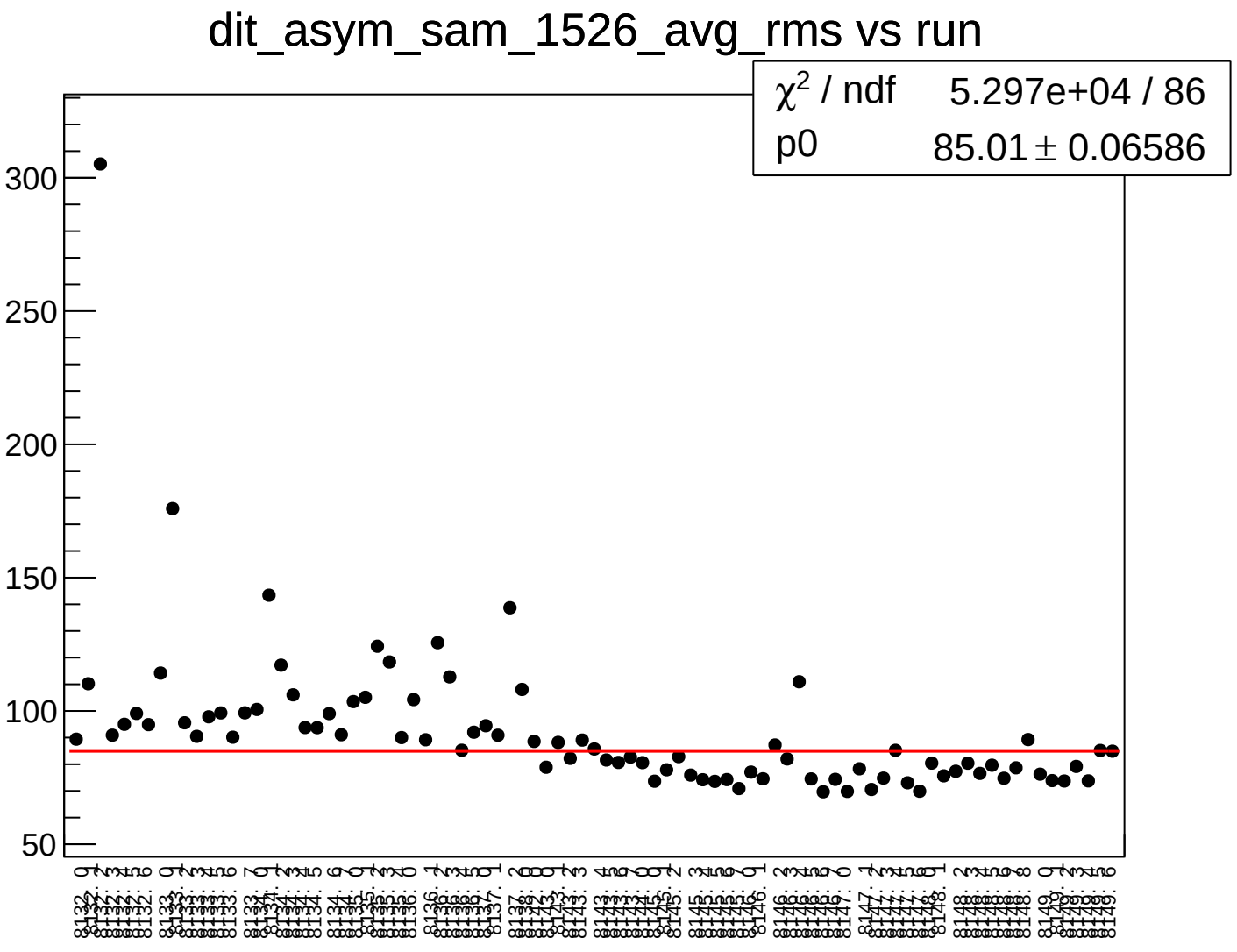

eigen_cor_asym_sam_1526_avg_rms vs run
χ² / ndf 5.118e+04 / 86
p0 81.08 ± 0.06278
300
250
200
150
100
50

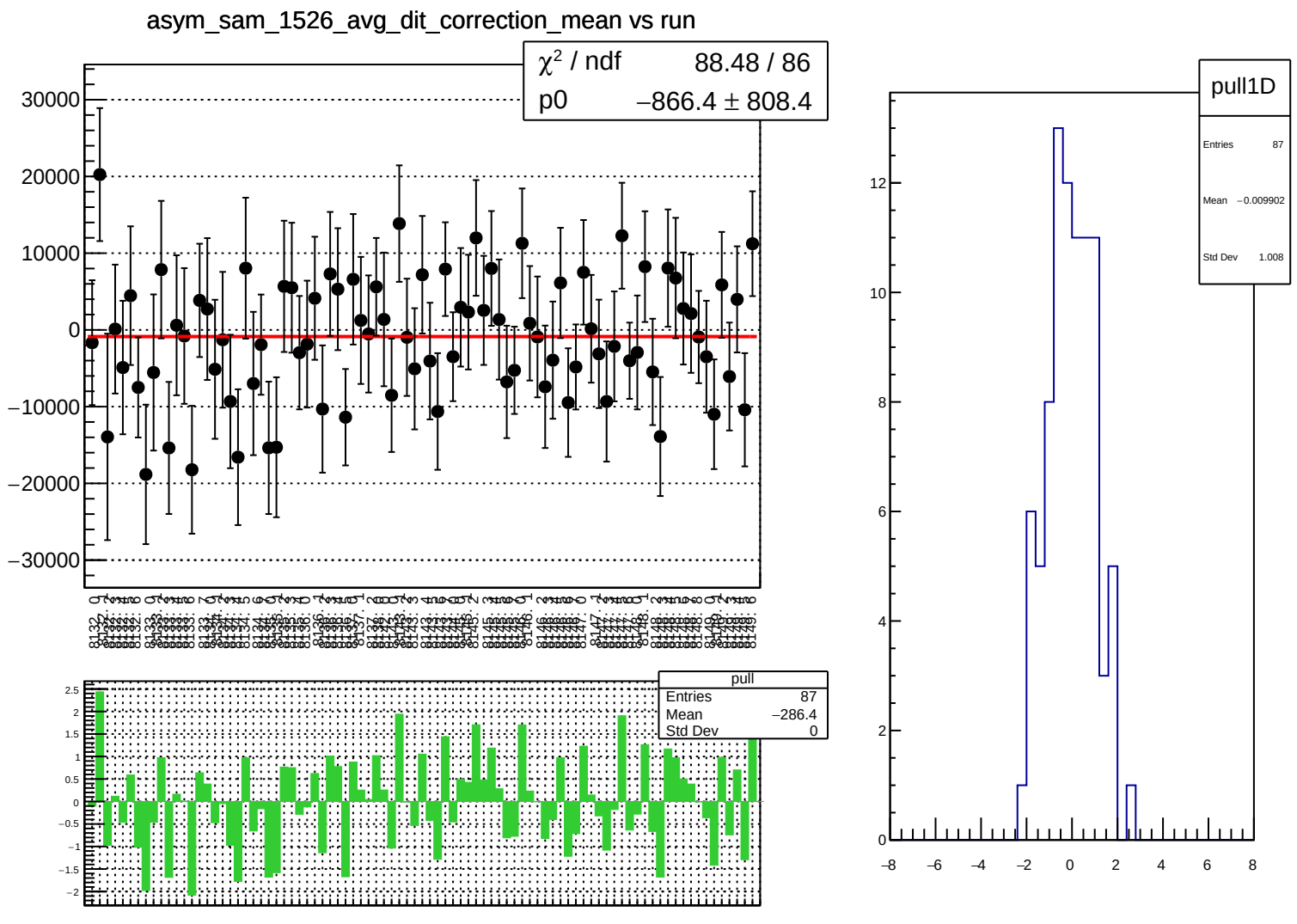

asym_sam_1526_avg_eigen_cor_correction_mean vs run
χ² / ndf 88.75 / 86
p0 −865.7 ± 799.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean −410.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.007061
Std Dev 1.01
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

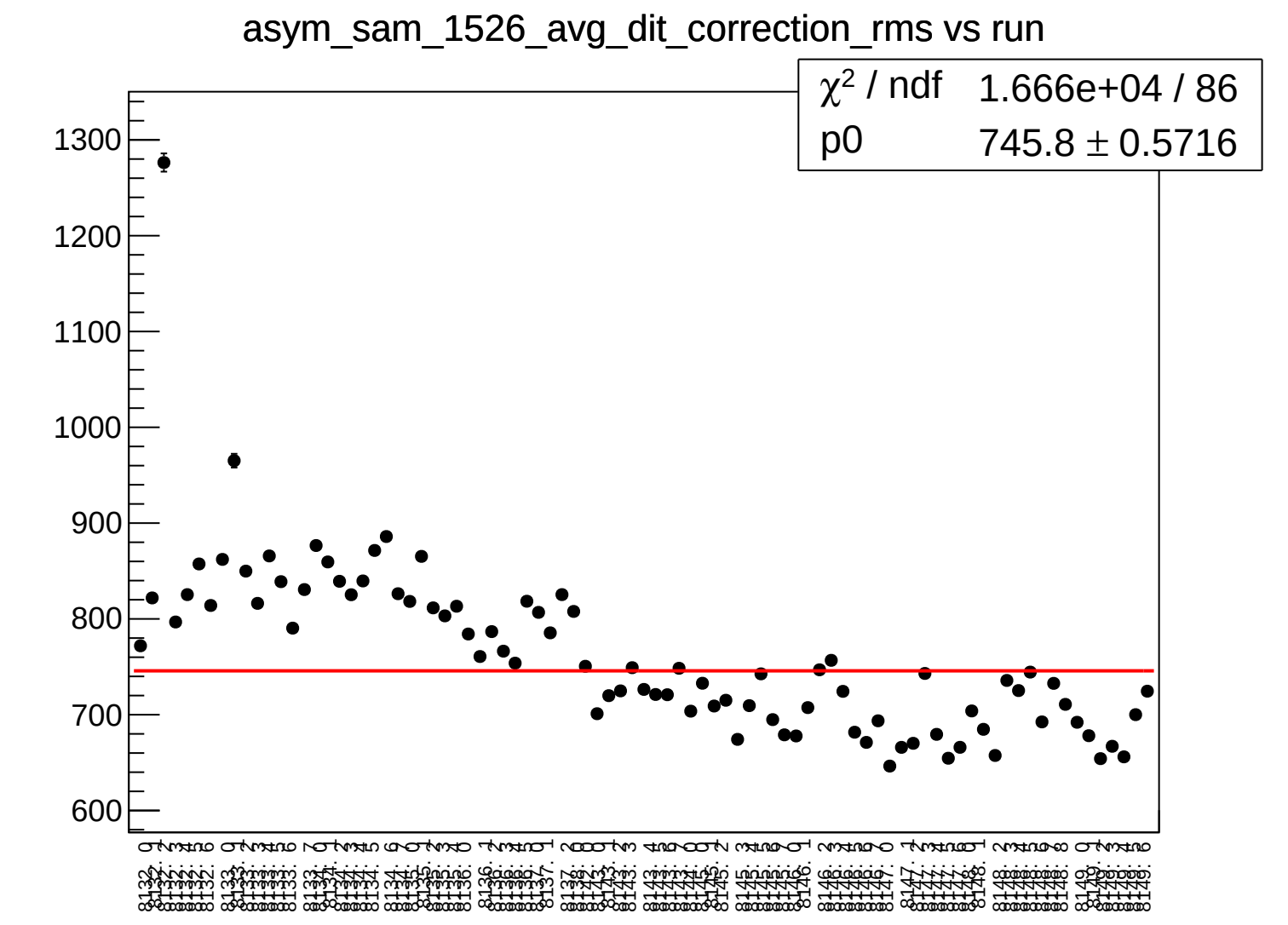

asym_sam_1526_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.395e+04 / 86
p0 737.9 ± 0.5652
1200
1100
1000
900
800
700
600

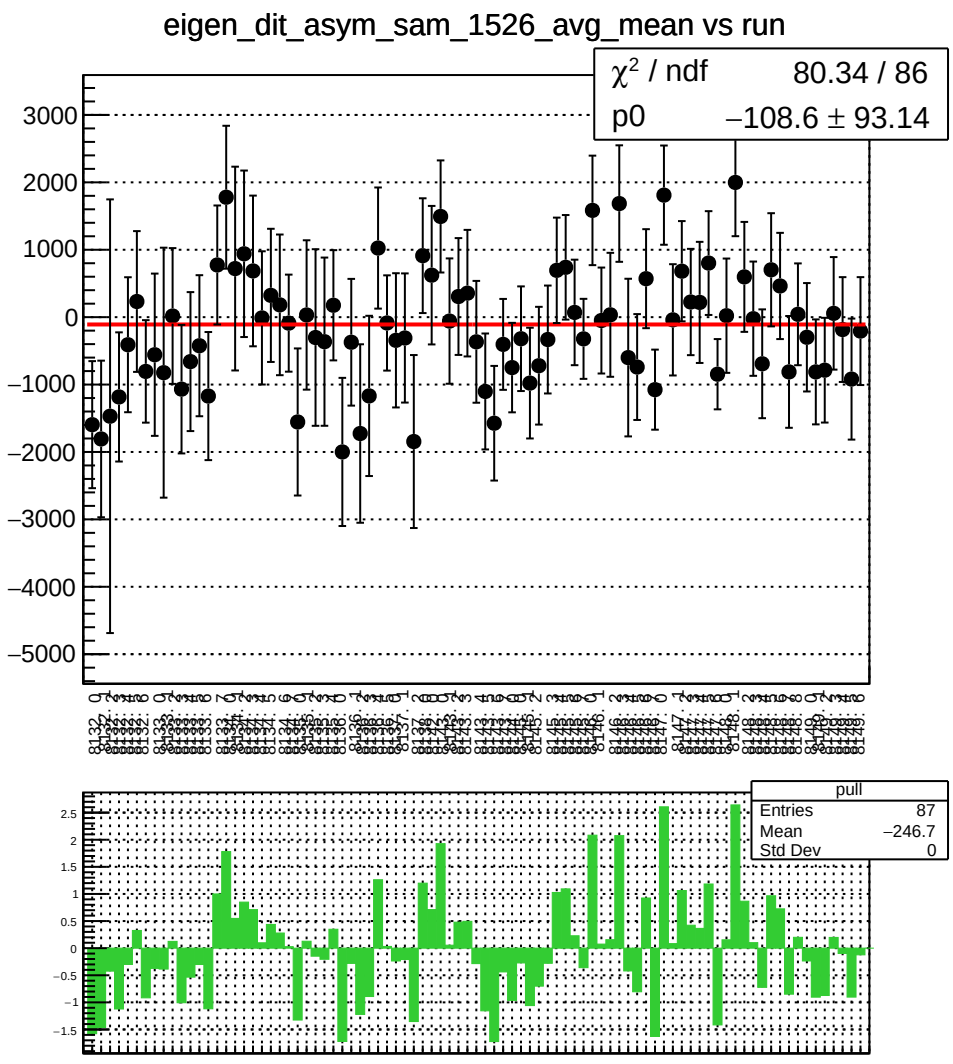

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 80.34 / 86
p0 −108.6 ± 93.14
pull
Entries 87
Mean −246.7
Std Dev 0

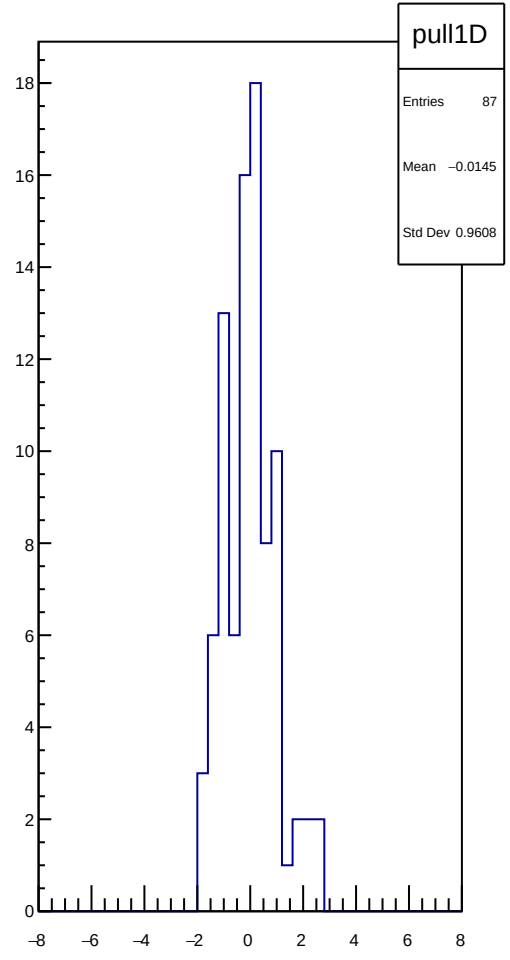

pull1D
Entries 87
Mean −0.0145
Std Dev 0.9608

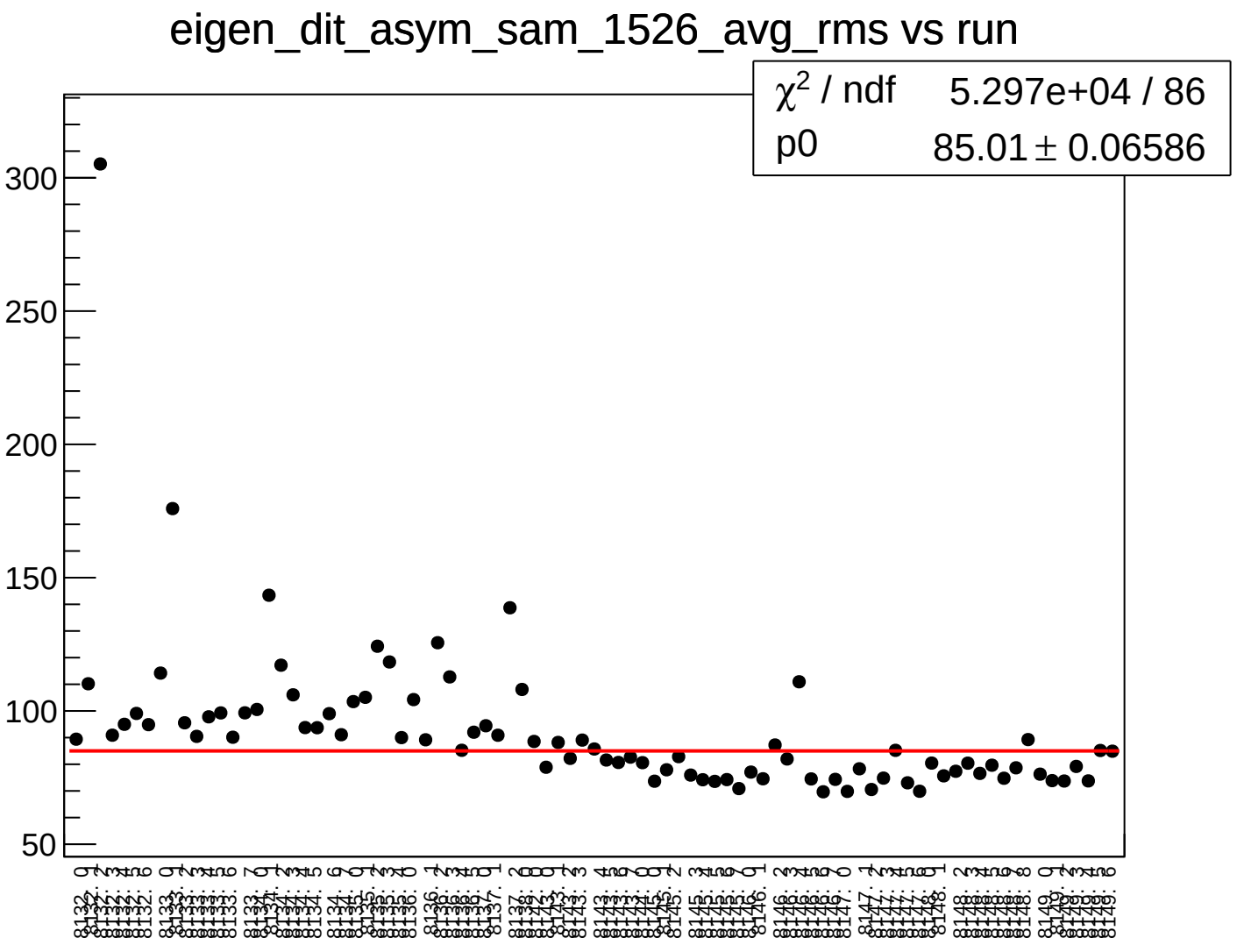

dit_asym_sam_1526_avg_rms vs run
χ^2 / ndf 5.297e+04 / 86
p0 85.01 ± 0.06586
300
250
200
150
100
50

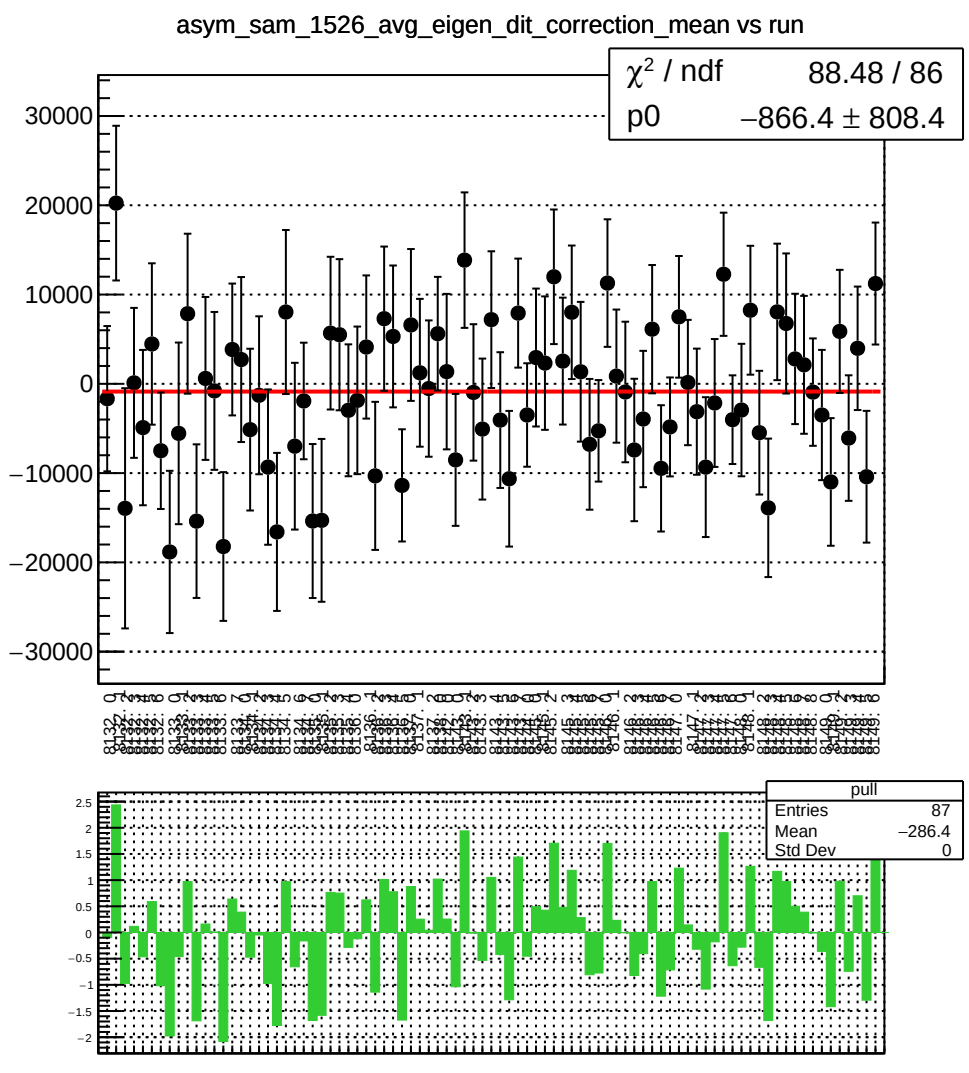

asym_sam_1526_avg_dit_correction_mean vs run
χ² / ndf 88.48 / 86
p0 −866.4 ± 808.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean −286.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 87
Mean −0.009902
Std Dev 1.008
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

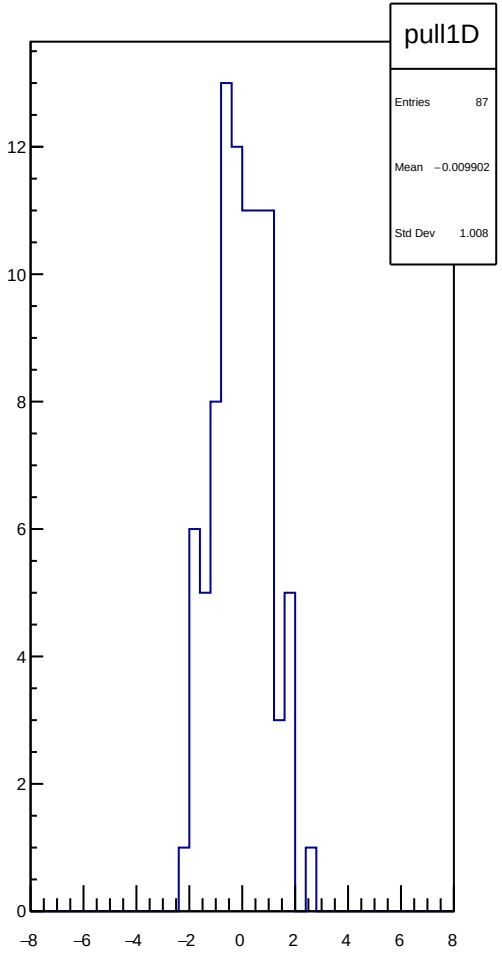

asym_sam_1526_avg_dit_correction_rms vs run
χ² / ndf 1.666e+04 / 86
p0 745.8 ± 0.5716
1300
1200
1100
1000
900
800
700
600

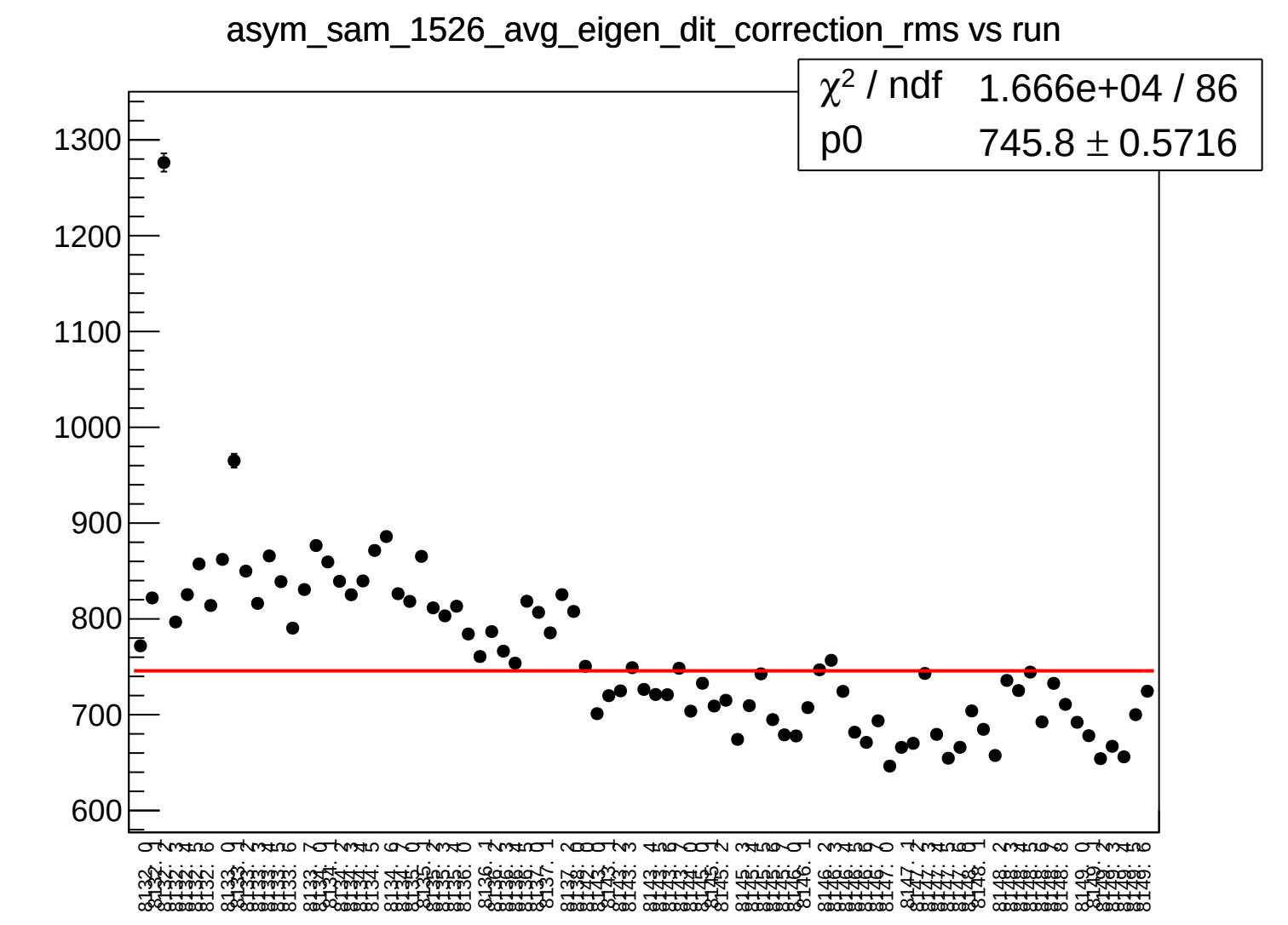

eigen_dit_asym_sam_1526_avg_mean vs run
χ² / ndf 80.34 / 86
p0 −108.6 ± 93.14
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
pull
Entries 87
Mean −246.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

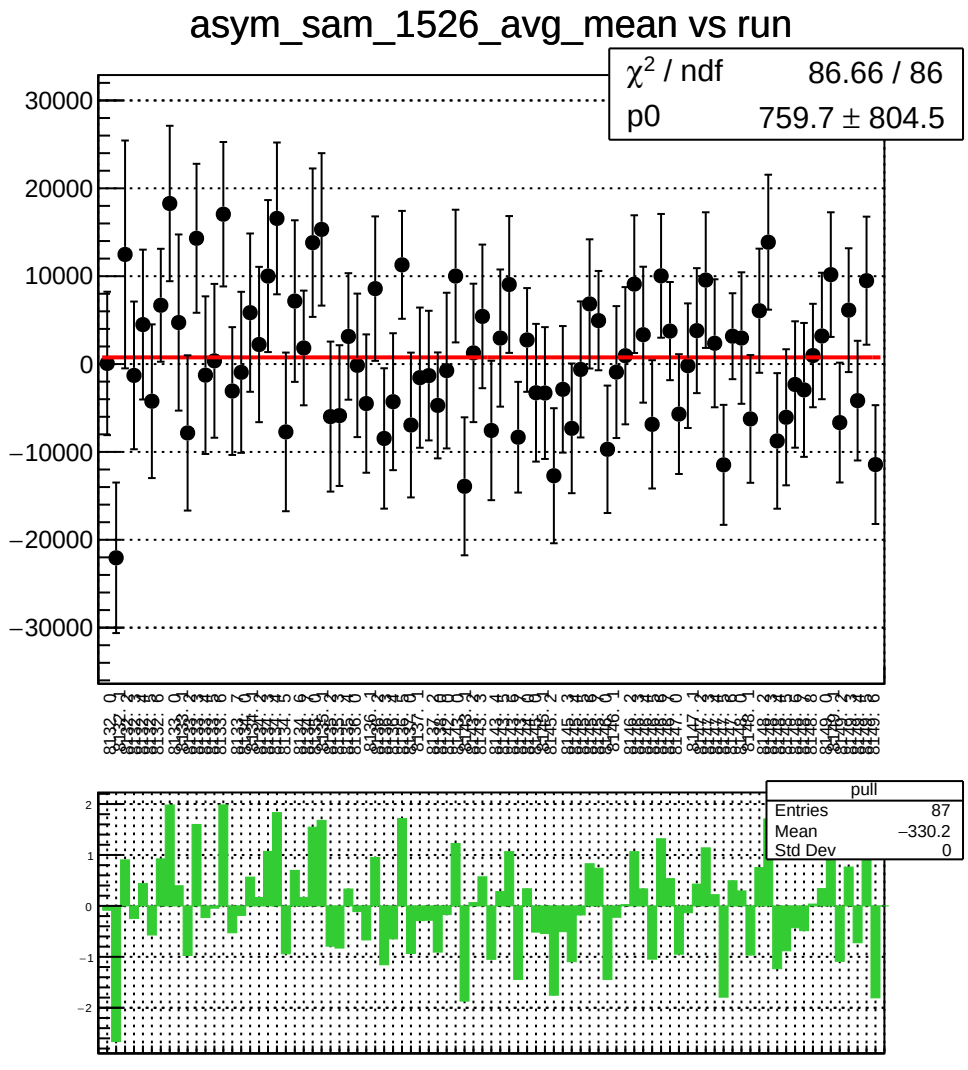

pull1D
Entries 87
Mean −0.0145
Std Dev 0.9608
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

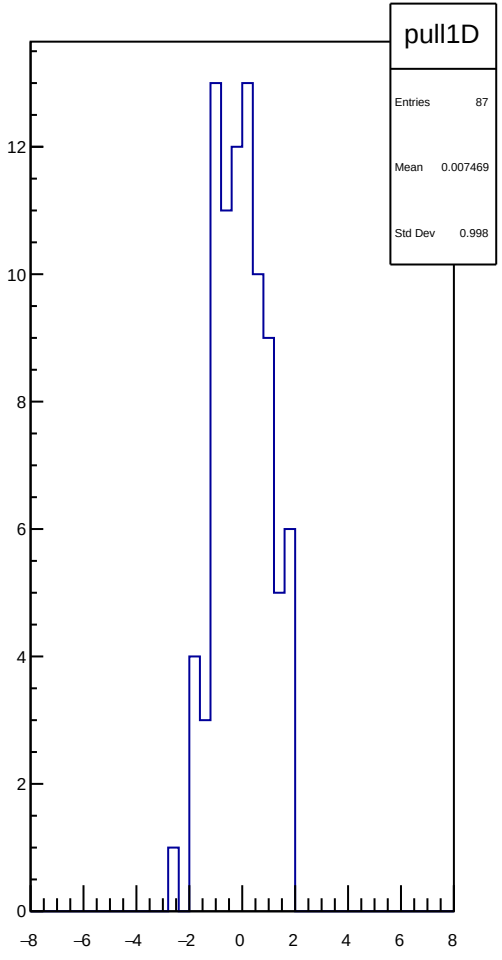

eigen_dit_asym_sam_1526_avg_rms vs run
χ^2 / ndf 5.297e+04 / 86
p0 85.01 ± 0.06586
300
250
200
150
100
50

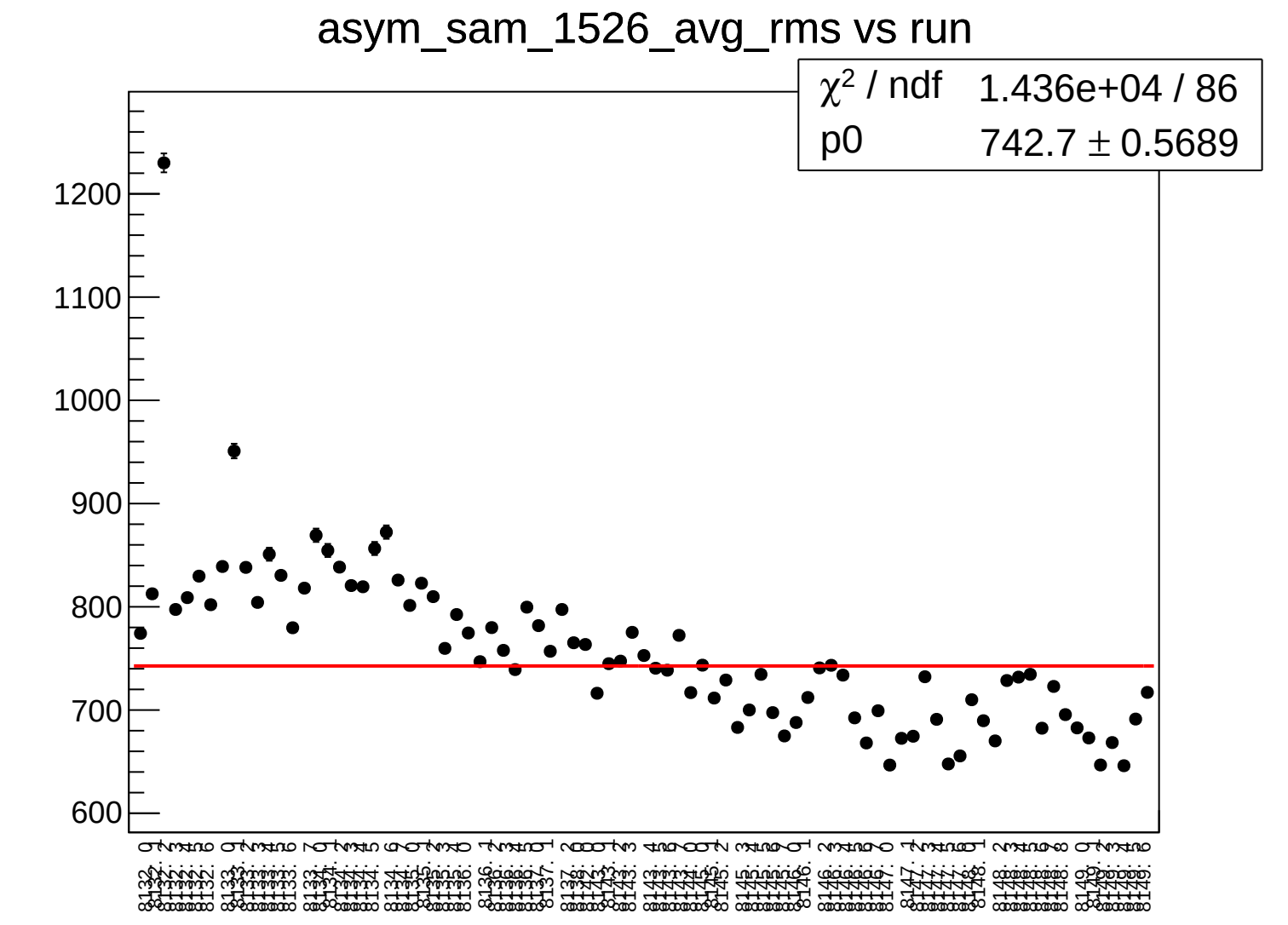

asym_sam_1526_avg_eigen_dit_correction_mean vs run
χ² / ndf 88.48 / 86
p0 −866.4 ± 808.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean −286.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

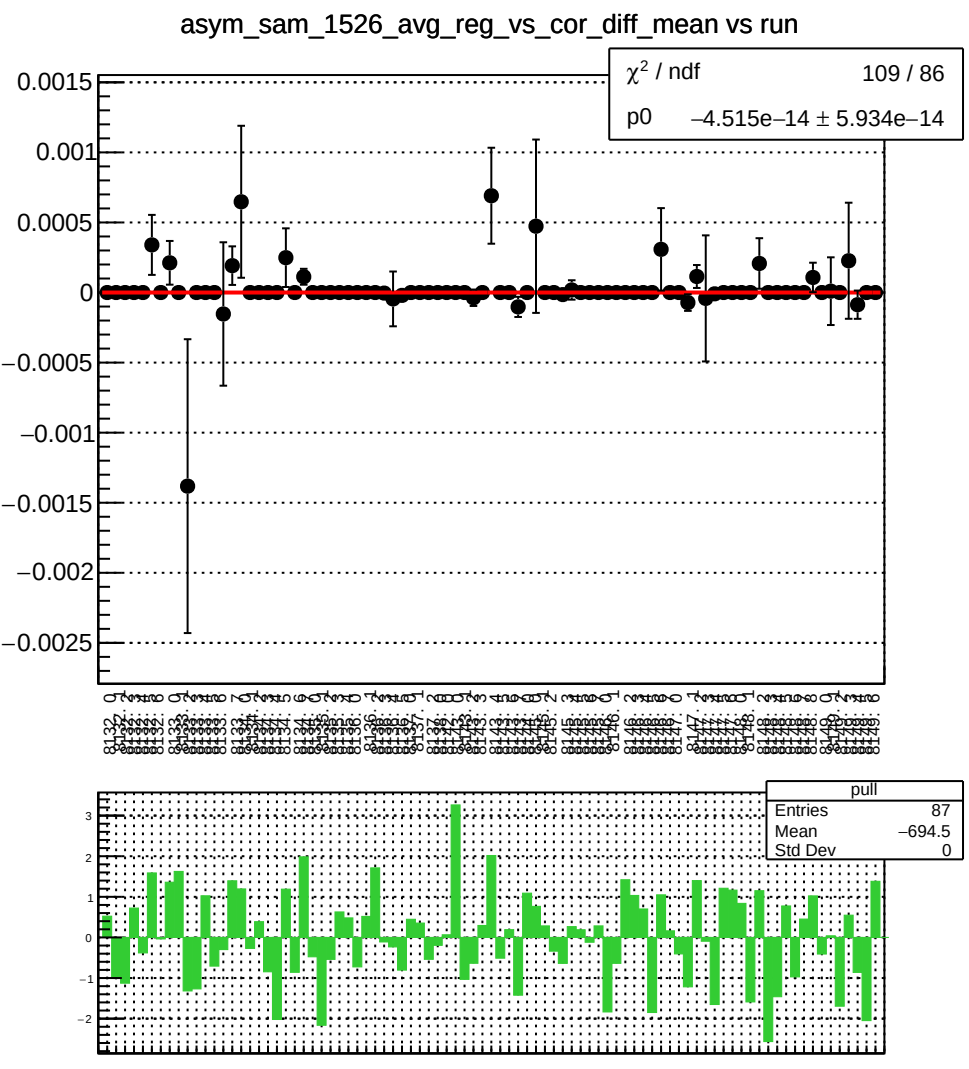

pull1D
Entries 87
Mean −0.009902
Std Dev 1.008
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

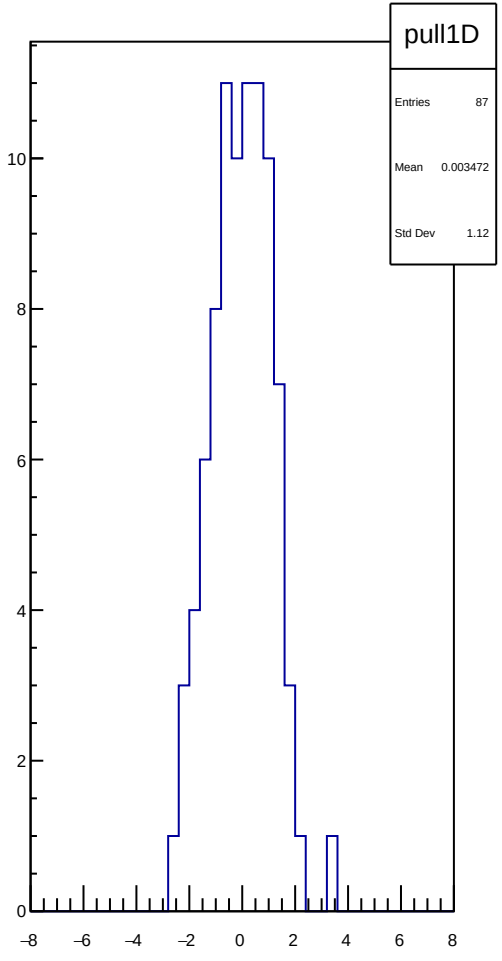

asym_sam_1526_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.666e+04 / 86
p0 745.8 ± 0.5716
1300
1200
1100
1000
900
800
700
600

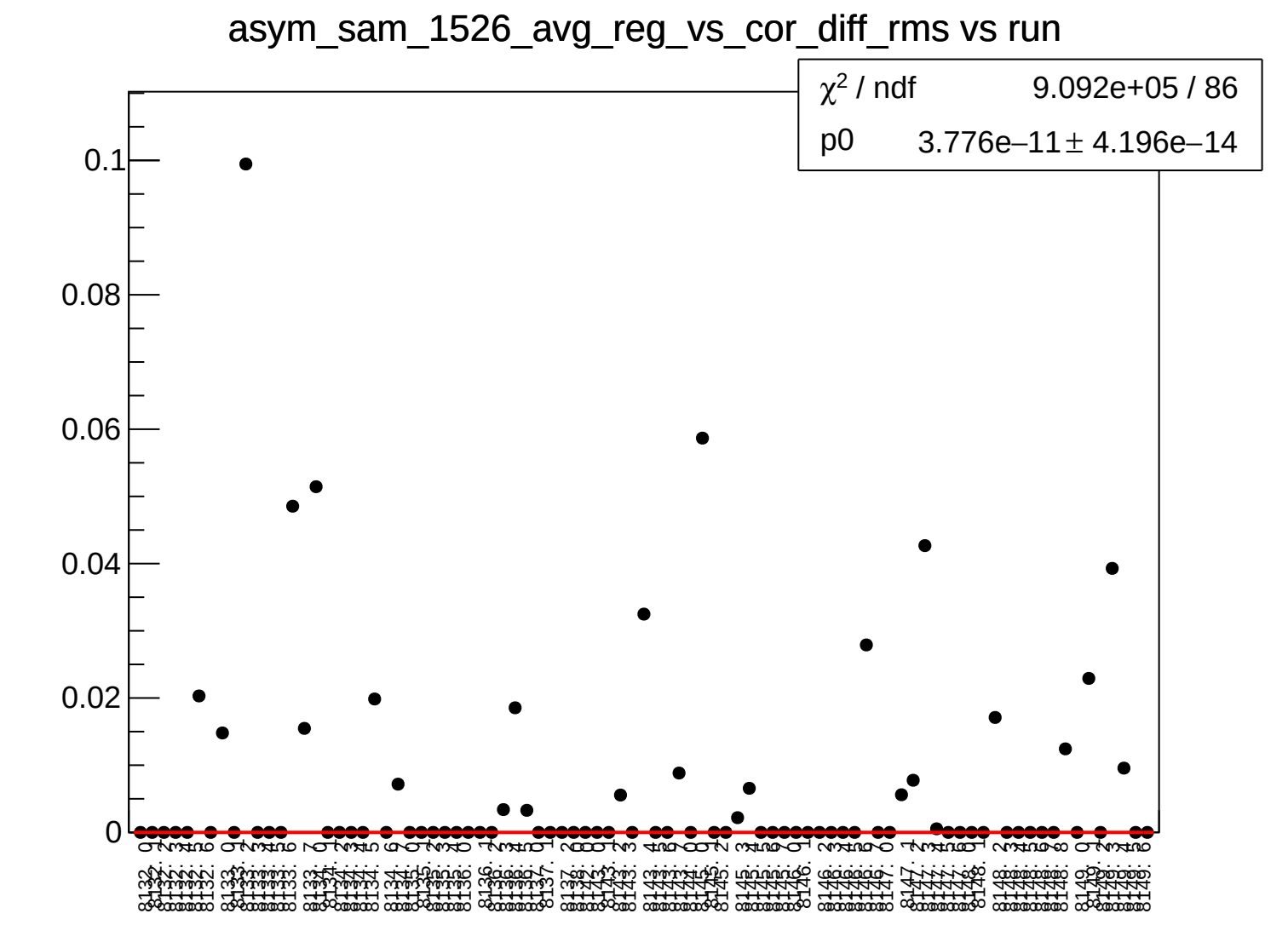

asym_sam_1526_avg_mean vs run
χ² / ndf 86.66 / 86
p0 759.7 ± 804.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean −330.2
Std Dev 0
2
1
0
−1
−2

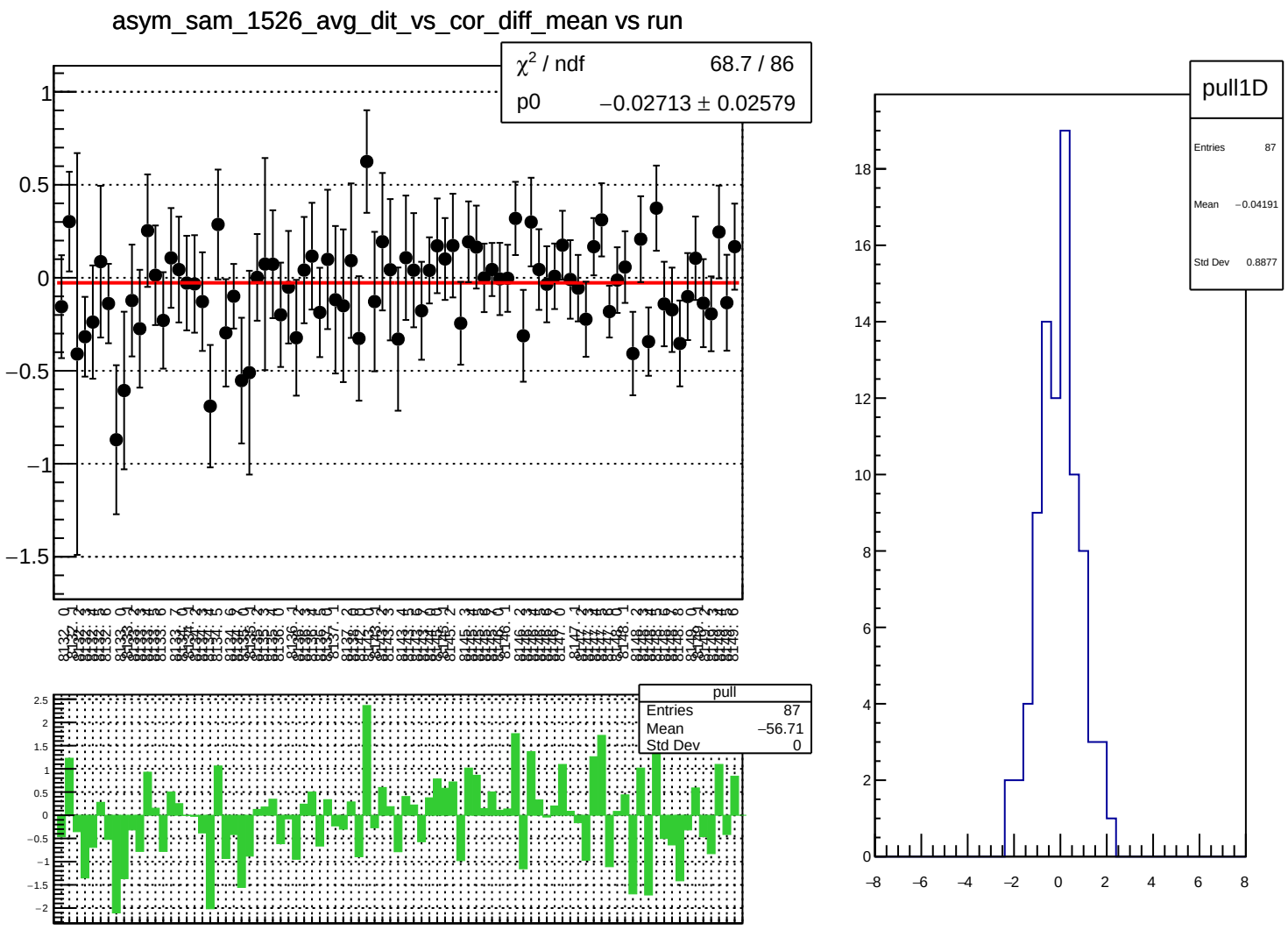

pull1D
Entries 87
Mean 0.007469
Std Dev 0.998
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

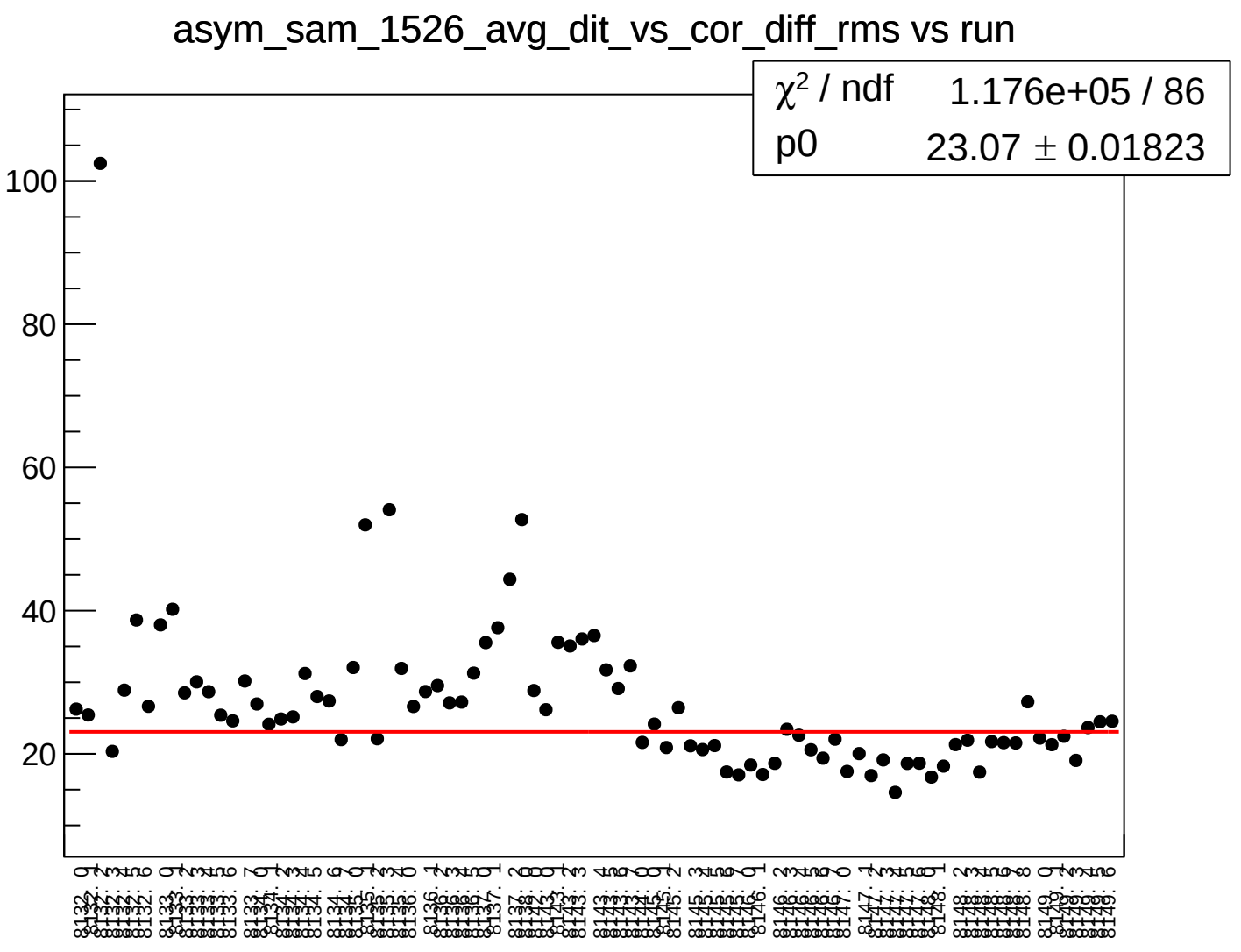

asym_sam_1526_avg_rms vs run
χ^2 / ndf 1.436e+04 / 86
p0 742.7 ± 0.5689
1200
1100
1000
900
800
700
600

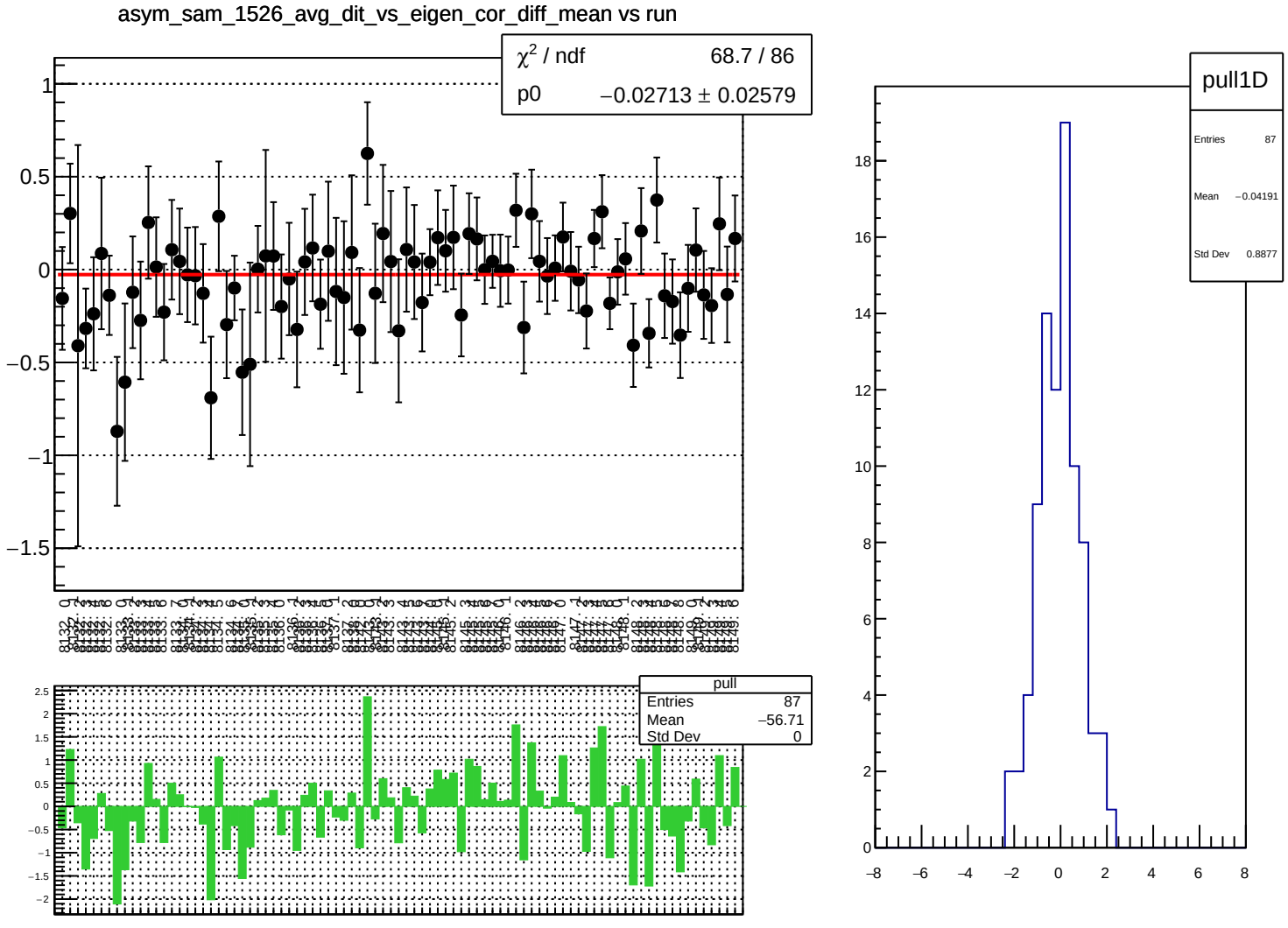

asym_sam_1526_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 109 / 86
p0 −4.515e−14 ± 5.934e−14
pull
Entries 87
Mean −694.5
Std Dev 0

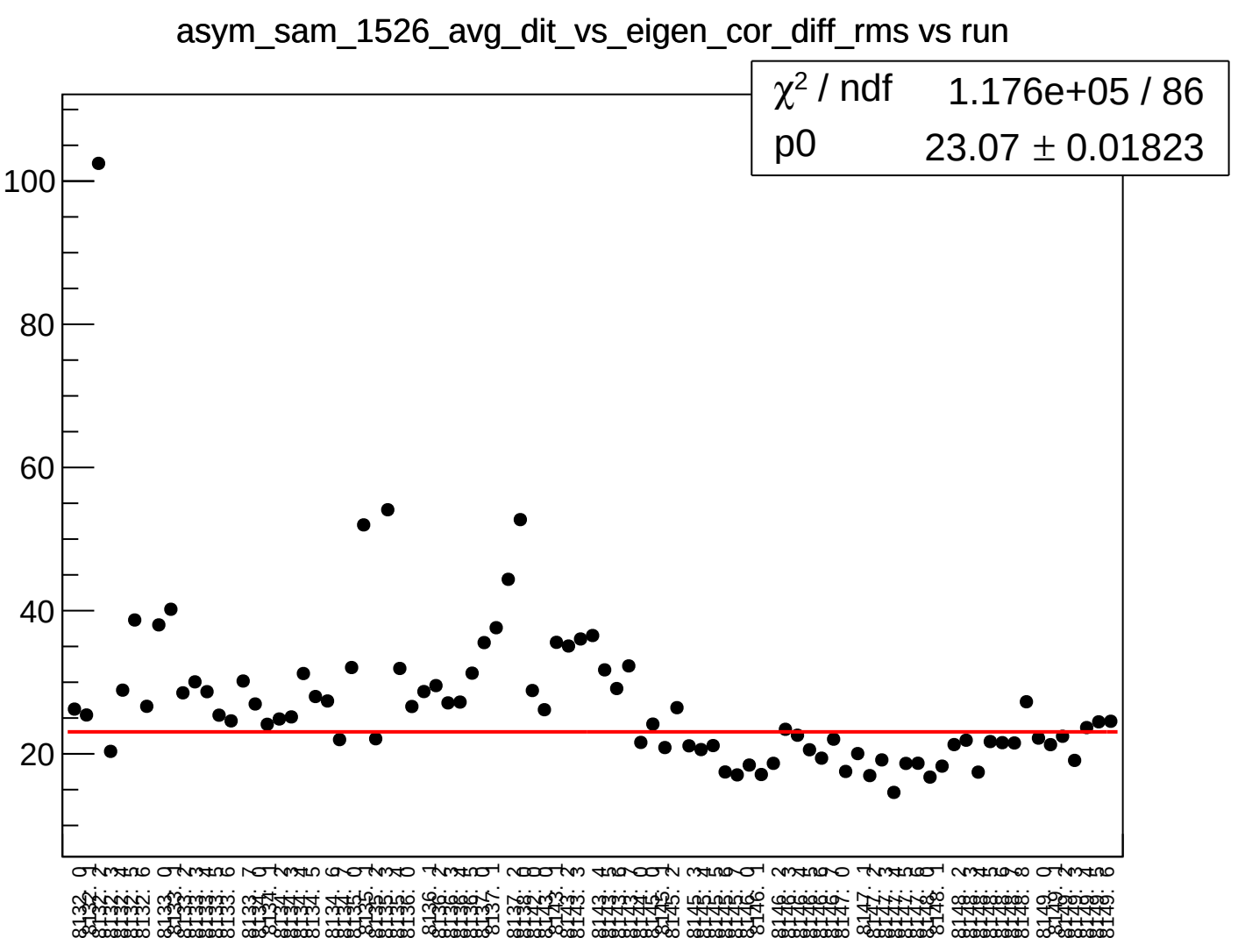

pull1D
Entries 87
Mean 0.003472
Std Dev 1.12

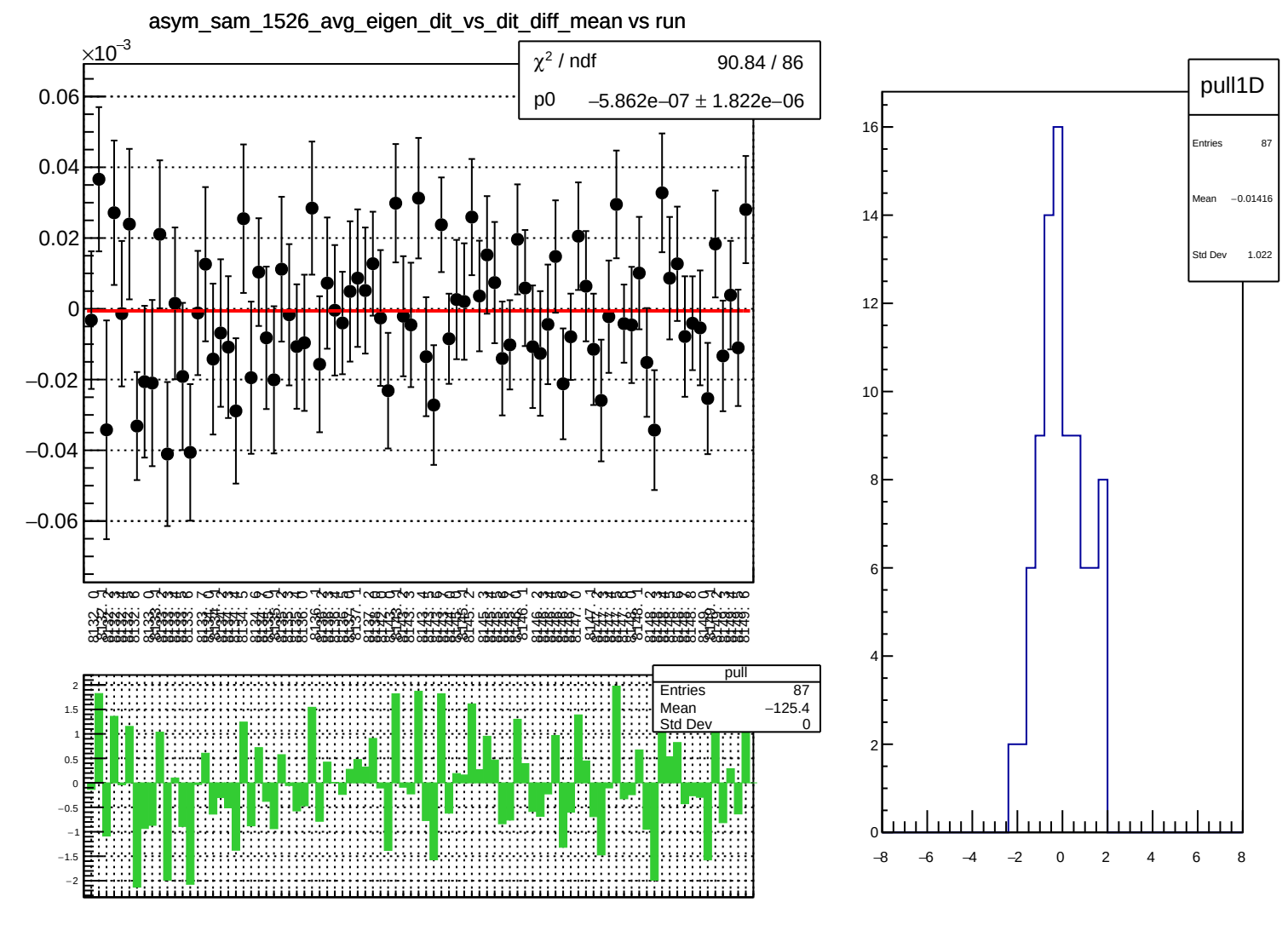

asym_sam_1526_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.092e+05 / 86
p0 3.776e−11 ± 4.196e−14
0.1
0.08
0.06
0.04
0.02
0

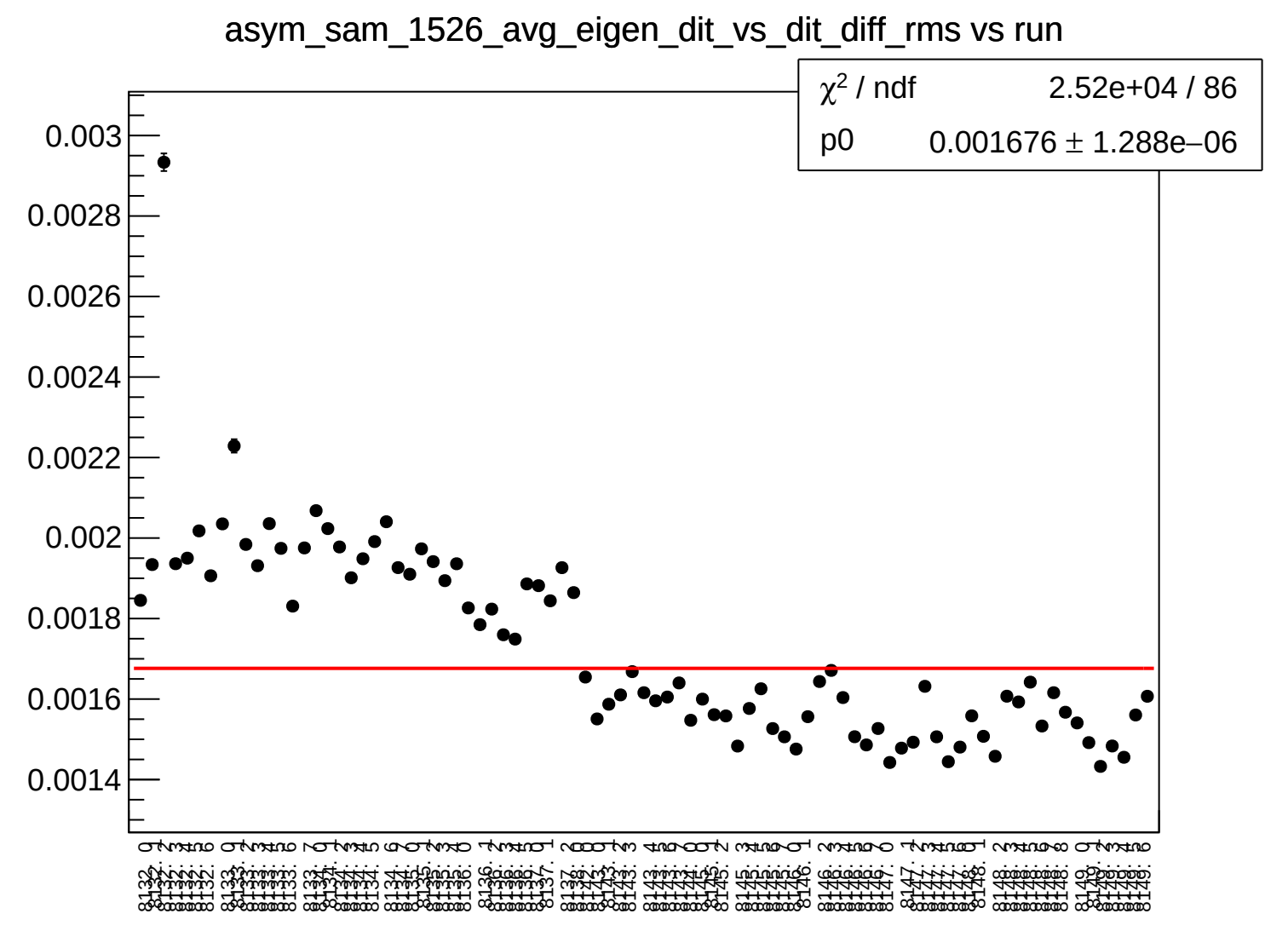

asym_sam_1526_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 68.7 / 86
p0 −0.02713 ± 0.02579
pull
Entries 87
Mean −56.71
Std Dev 0
pull1D
Entries 87
Mean −0.04191
Std Dev 0.8877

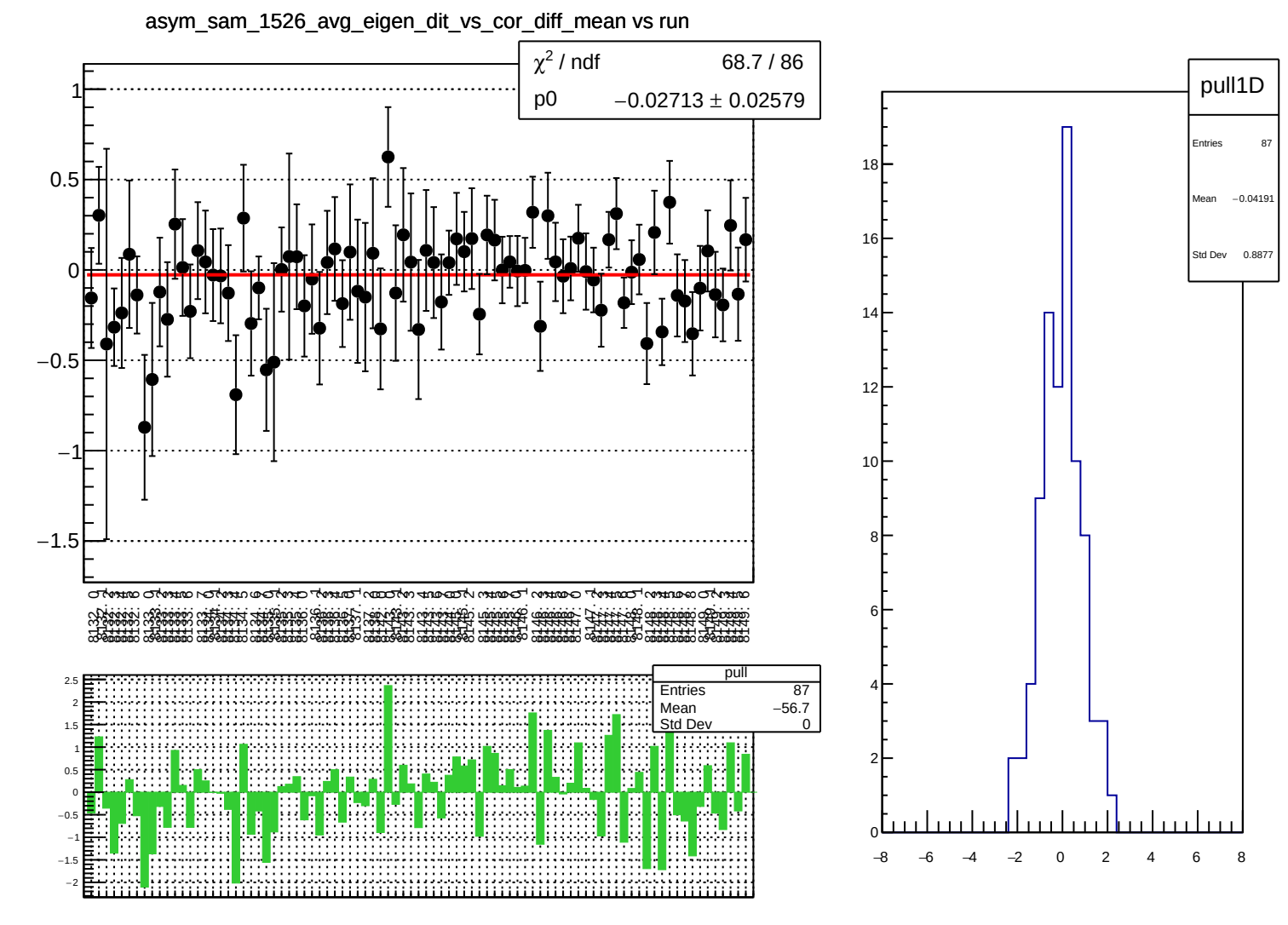

asym_sam_1526_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.176e+05 / 86
p0 23.07 ± 0.01823
100
80
60
40
20

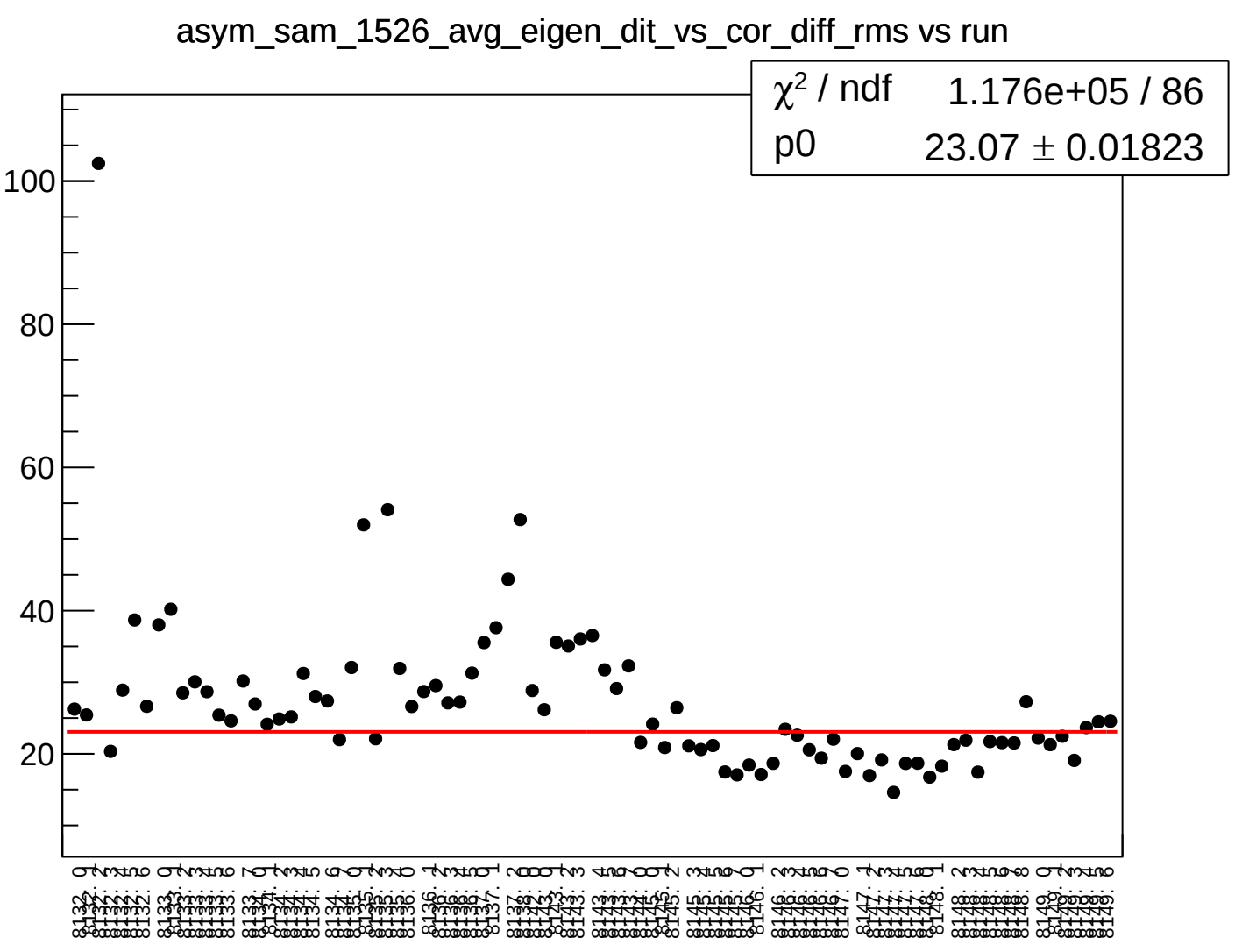

asym_sam_1526_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.7 / 86
p0 −0.02713 ± 0.02579
pull
Entries 87
Mean −56.71
Std Dev 0
pull1D
Entries 87
Mean −0.04191
Std Dev 0.8877

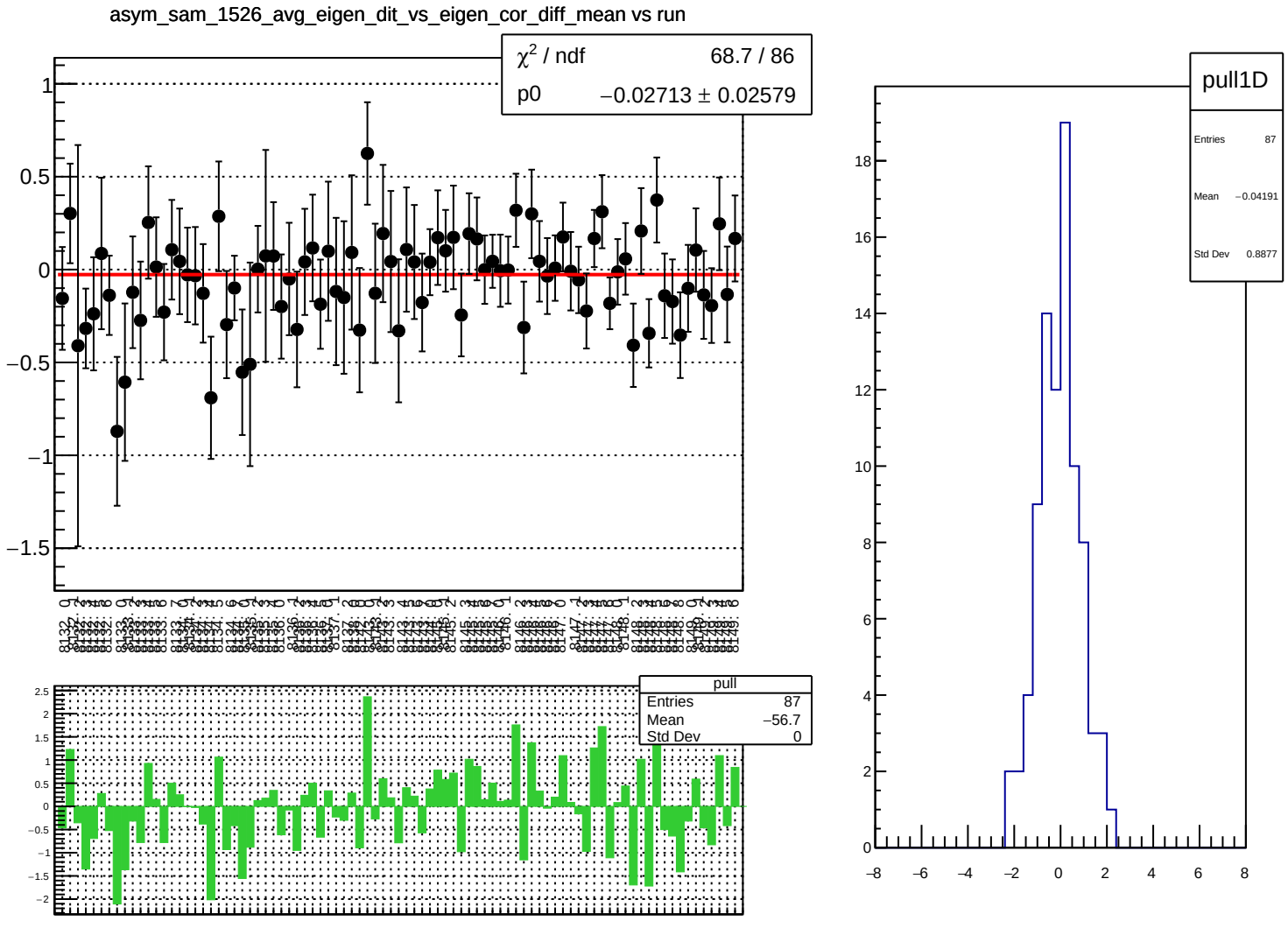

asym_sam_1526_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.176e+05 / 86
p0 23.07 ± 0.01823
100
80
60
40
20

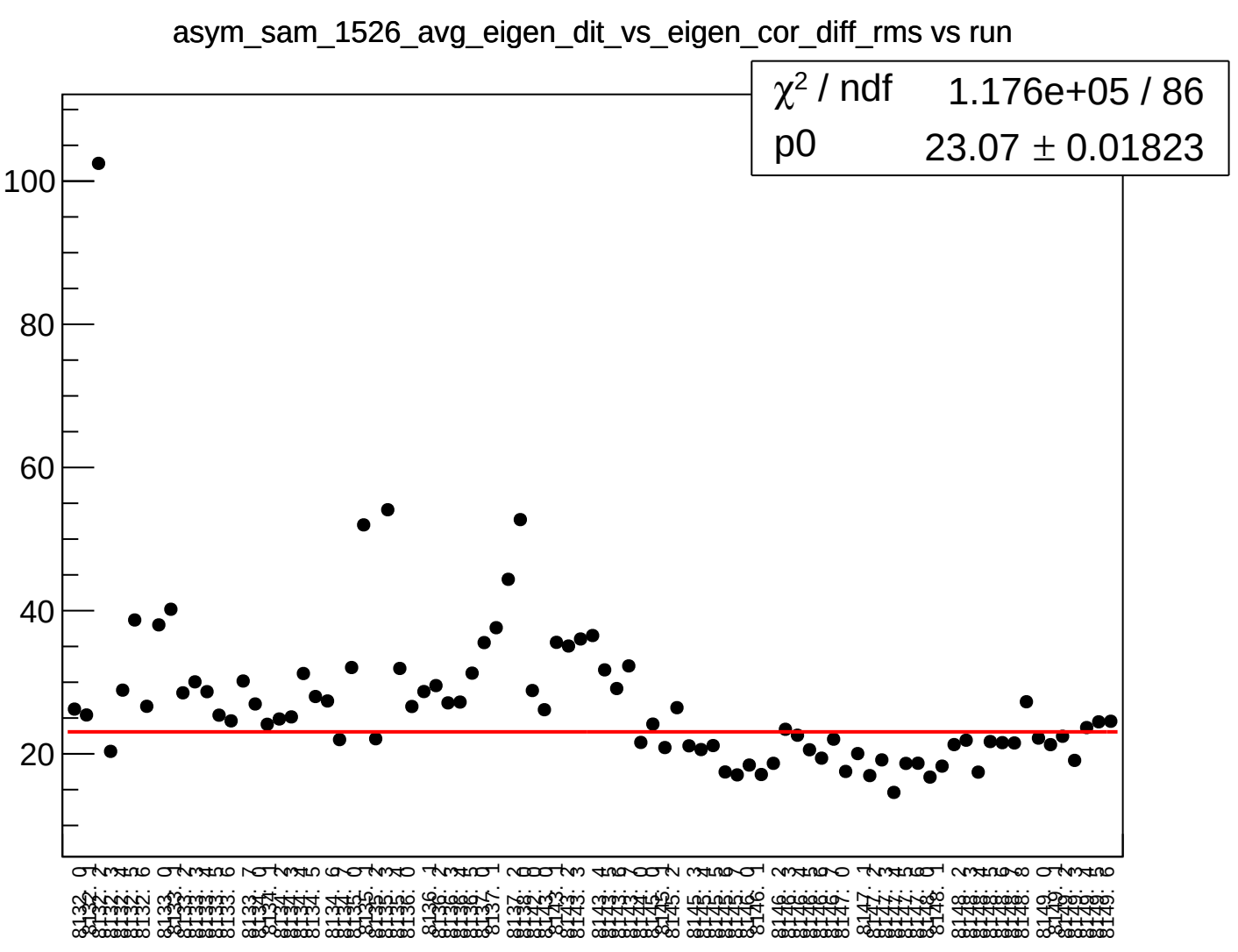

asym_sam_1526_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 90.84 / 86
p0 −5.862e−07 ± 1.822e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 87
Mean −125.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 87
Mean −0.01416
Std Dev 1.022
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

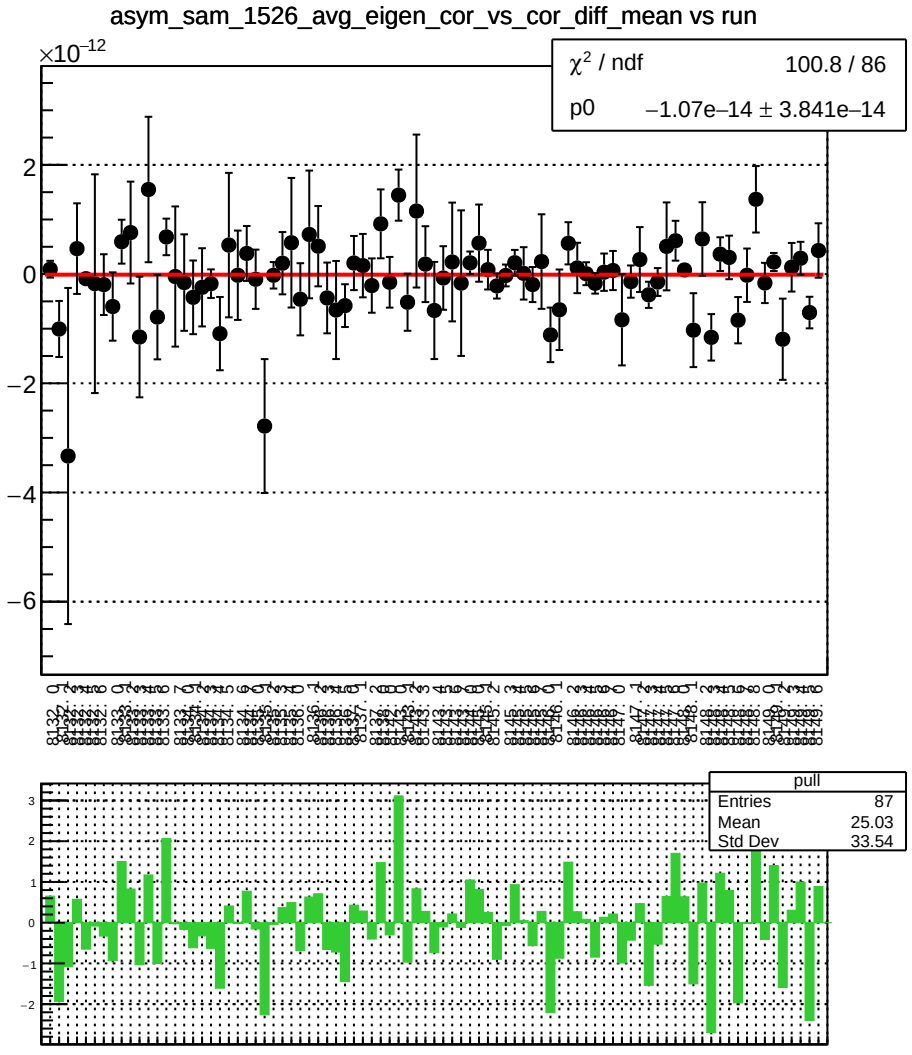

asym_sam_1526_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.52e+04 / 86
p0 0.001676 ± 1.288e−06
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014

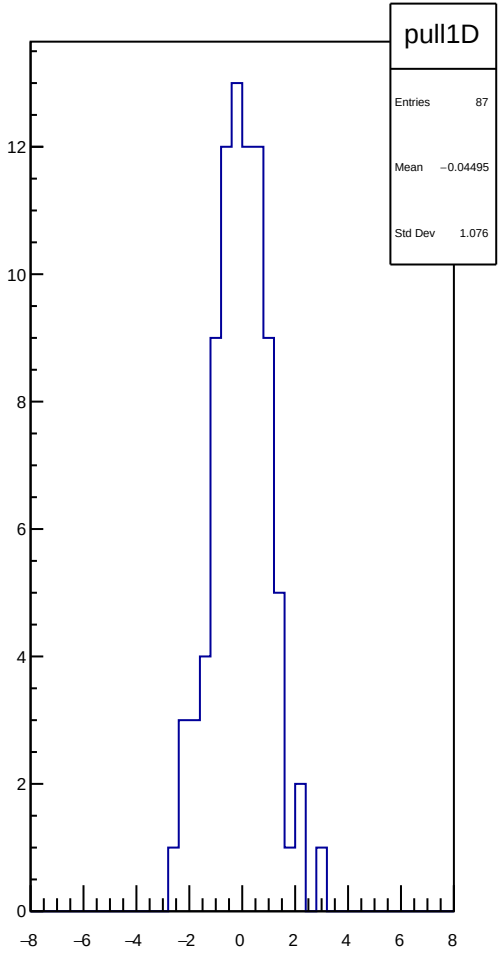

asym_sam_1526_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 68.7 / 86
p0 −0.02713 ± 0.02579
pull
Entries 87
Mean −56.7
Std Dev 0
pull1D
Entries 87
Mean −0.04191
Std Dev 0.8877

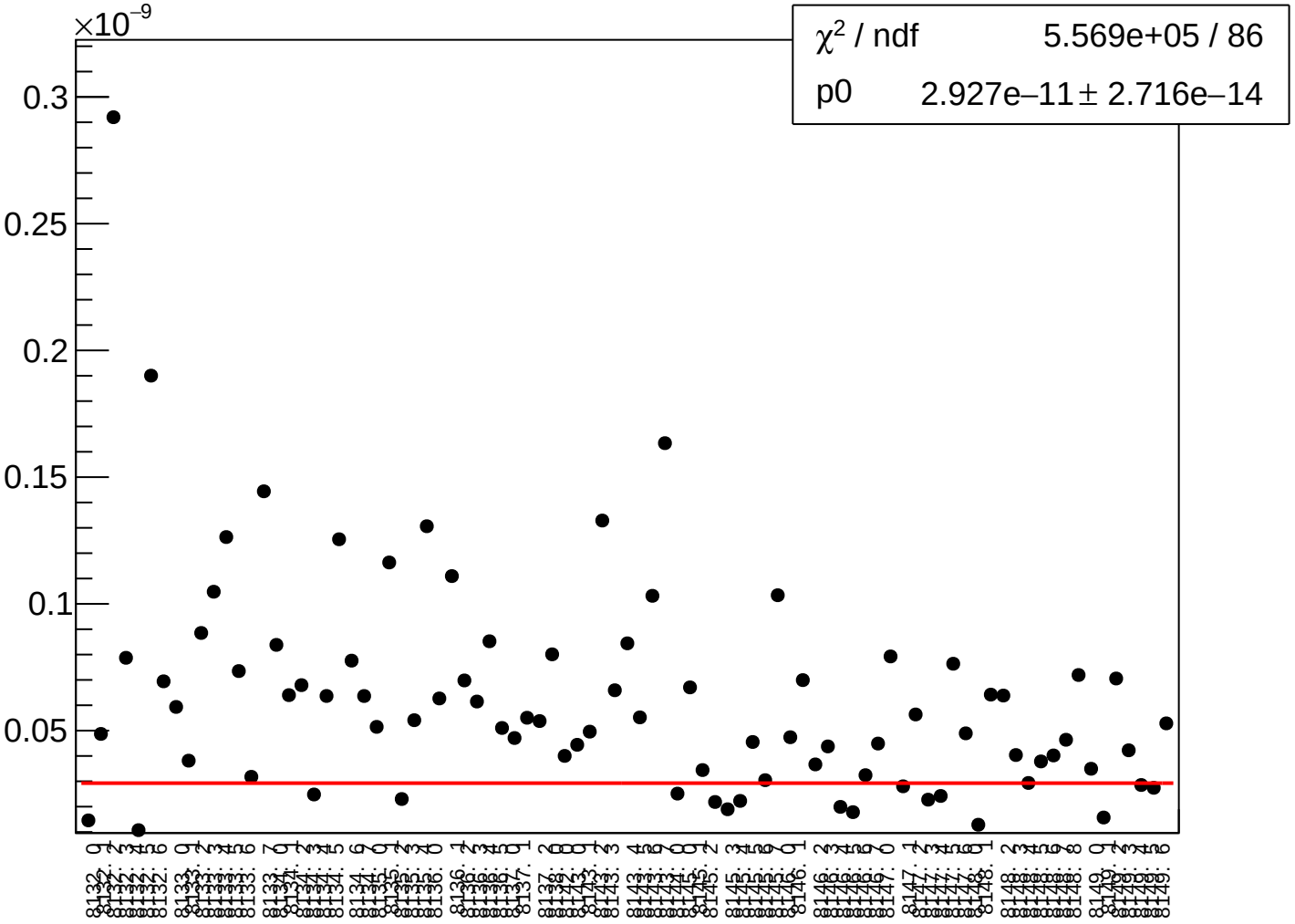

asym_sam_1526_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.176e+05 / 86
p0 23.07 ± 0.01823
100
80
60
40
20

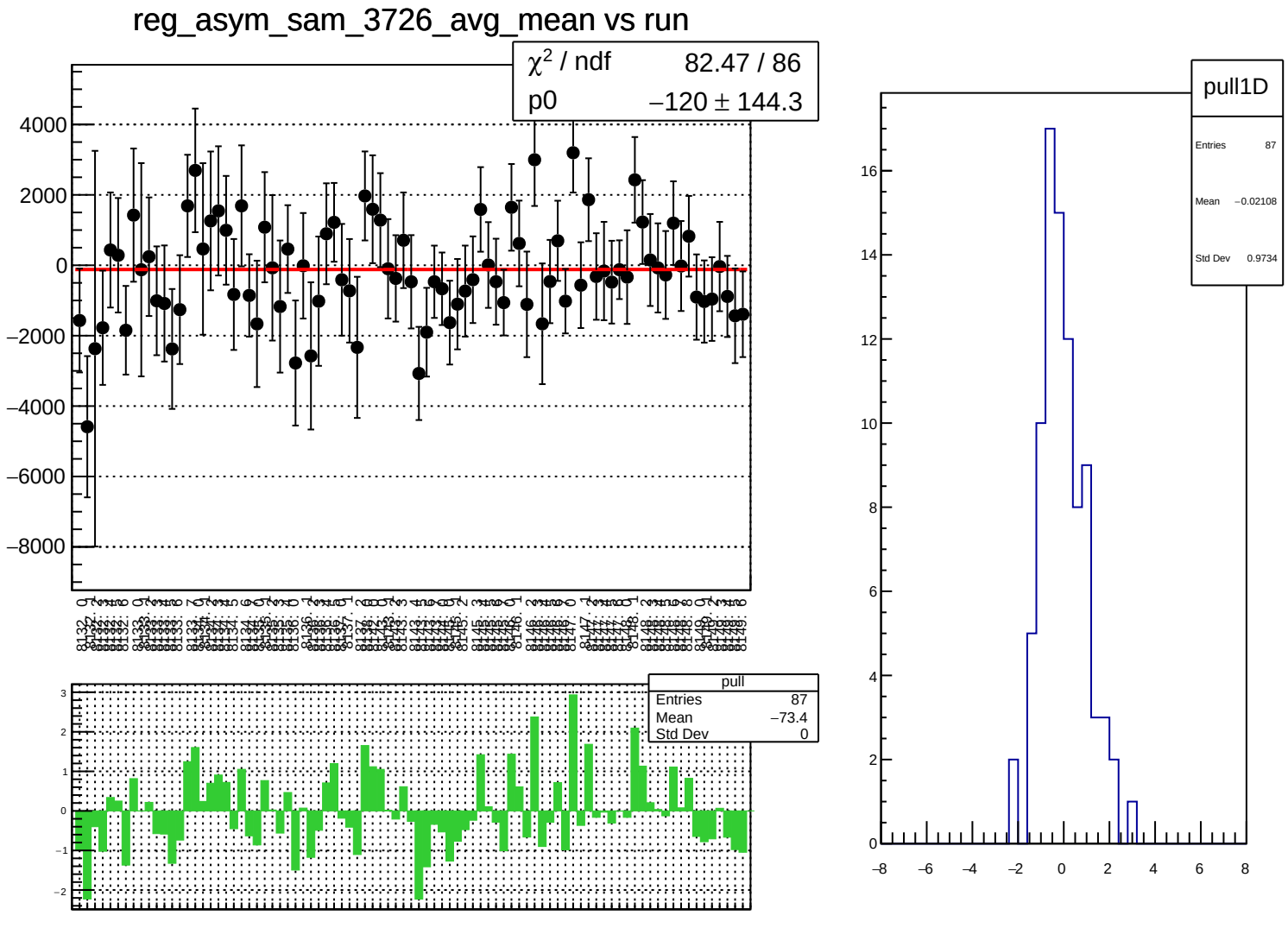

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.7 / 86
p0 −0.02713 ± 0.02579
pull
Entries 87
Mean −56.7
Std Dev 0
pull1D
Entries 87
Mean −0.04191
Std Dev 0.8877

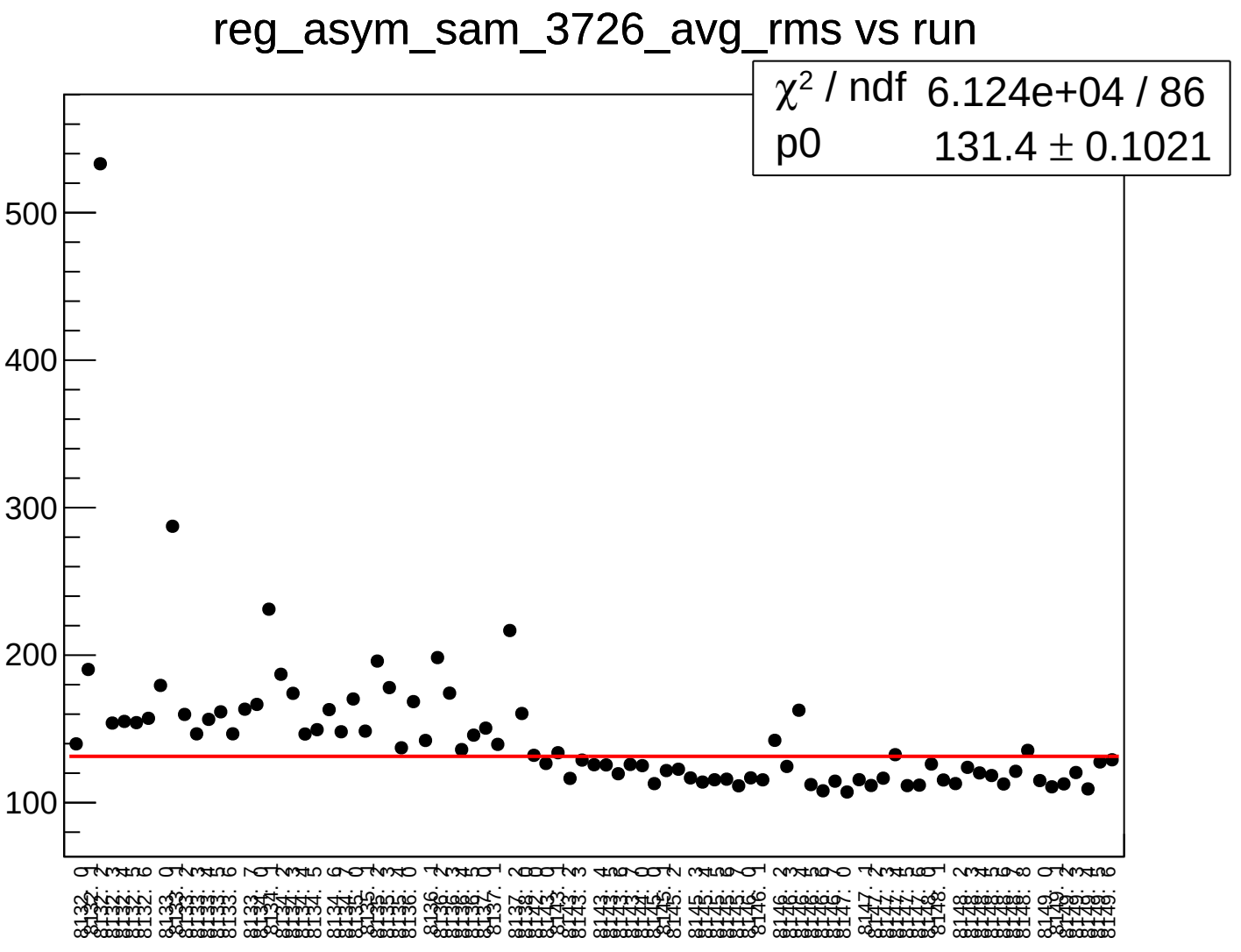

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.176e+05 / 86
p0 23.07 ± 0.01823
100
80
60
40
20

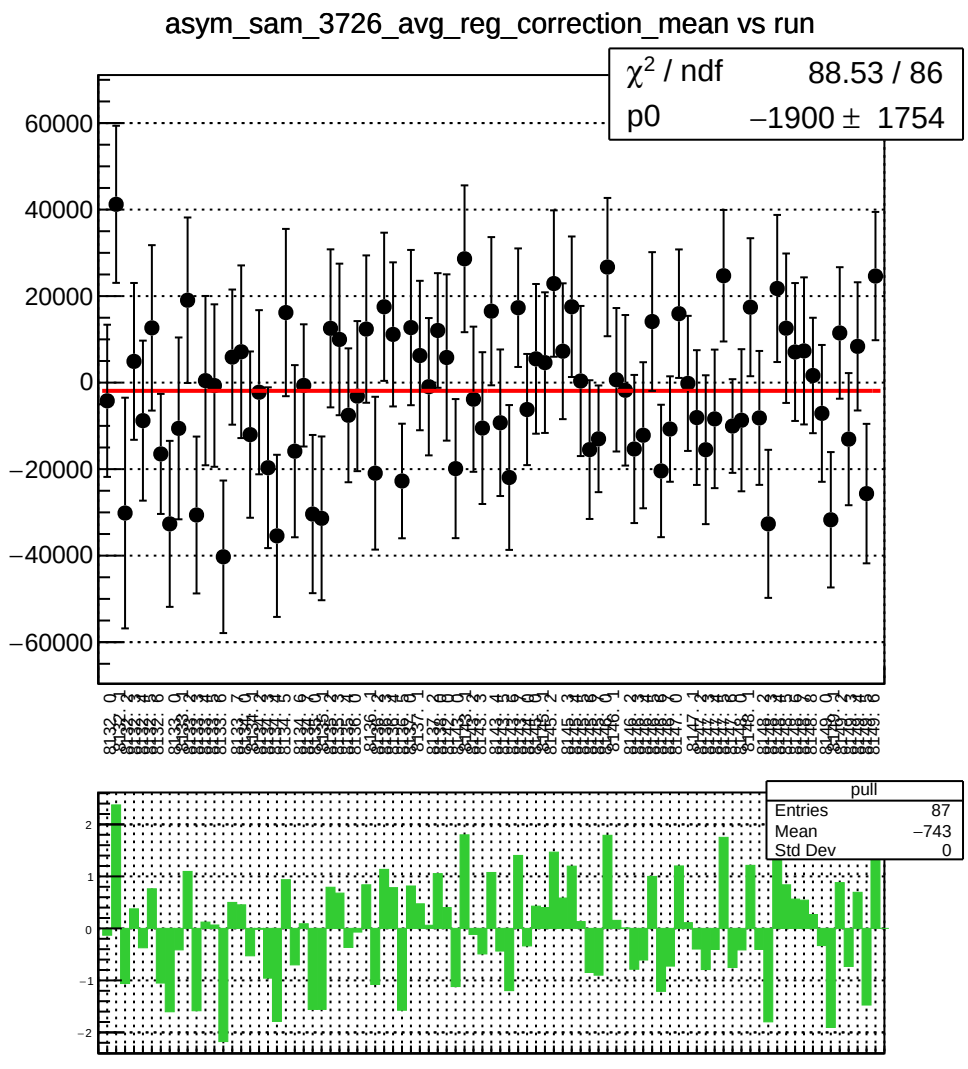

asym_sam_1526_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 100.8 / 86
p0 −1.07e−14 ± 3.841e−14
pull
Entries 87
Mean 25.03
Std Dev 33.54

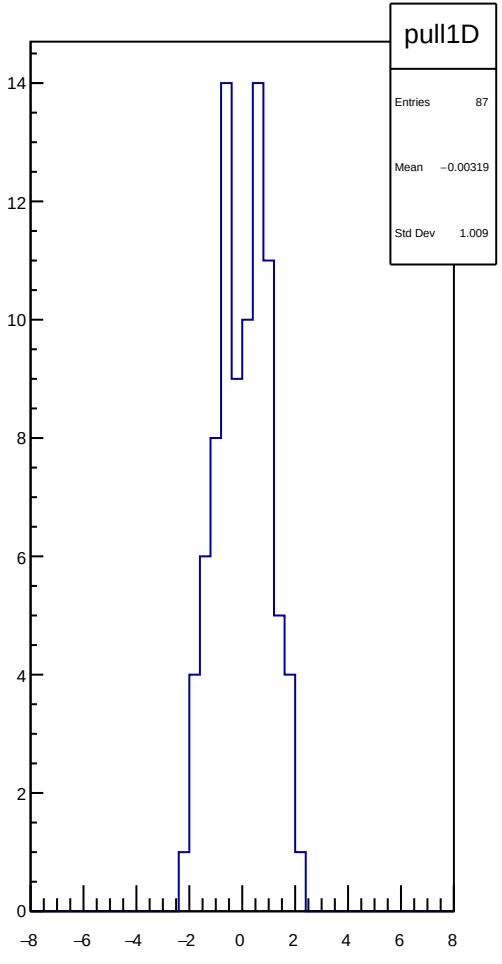

pull1D
Entries 87
Mean −0.04495
Std Dev 1.076

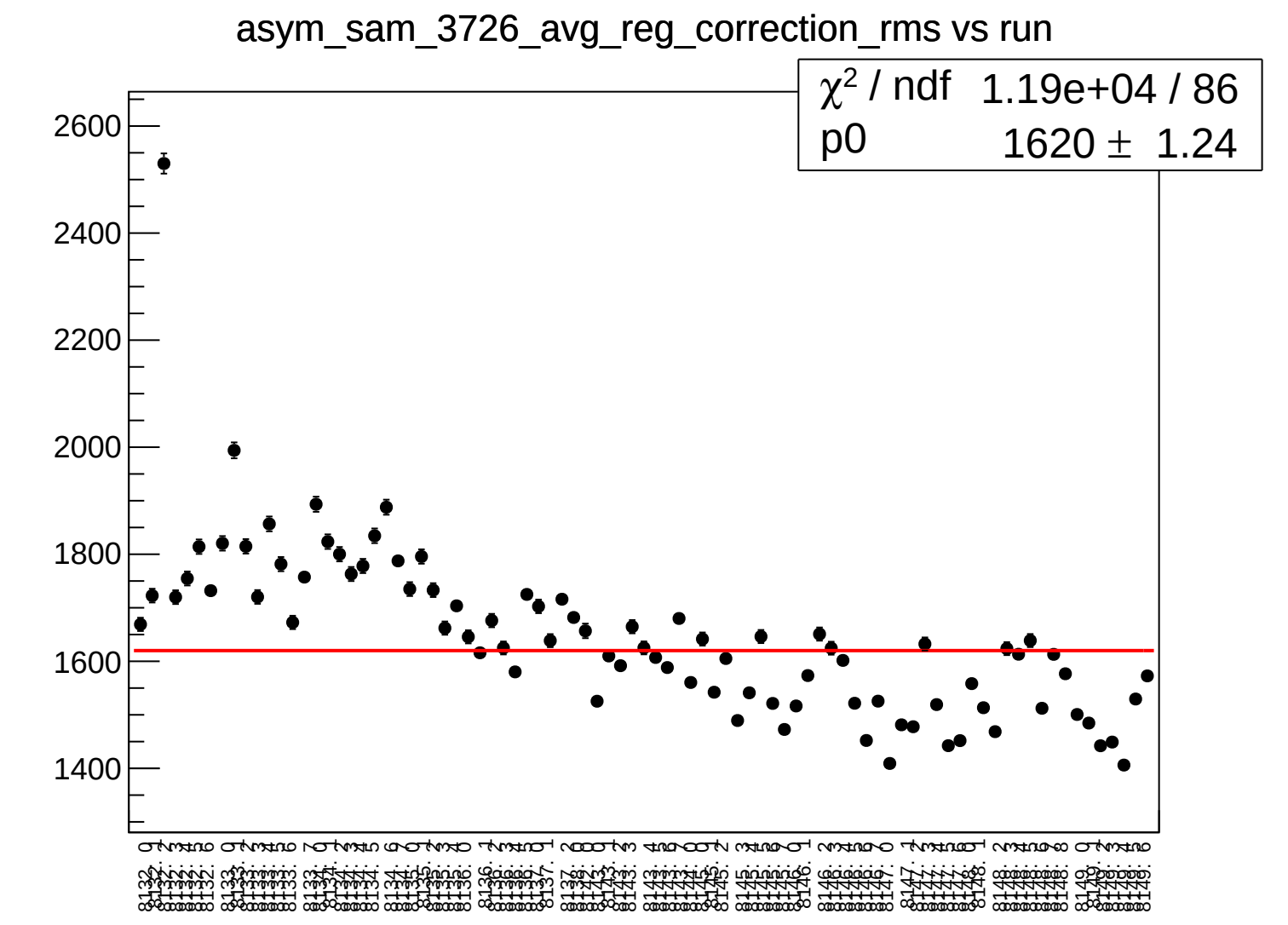

asym_sam_1526_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.569e+05 / 86
p0 2.927e−11 ± 2.716e−14
0.3
0.25
0.2
0.15
0.1
0.05

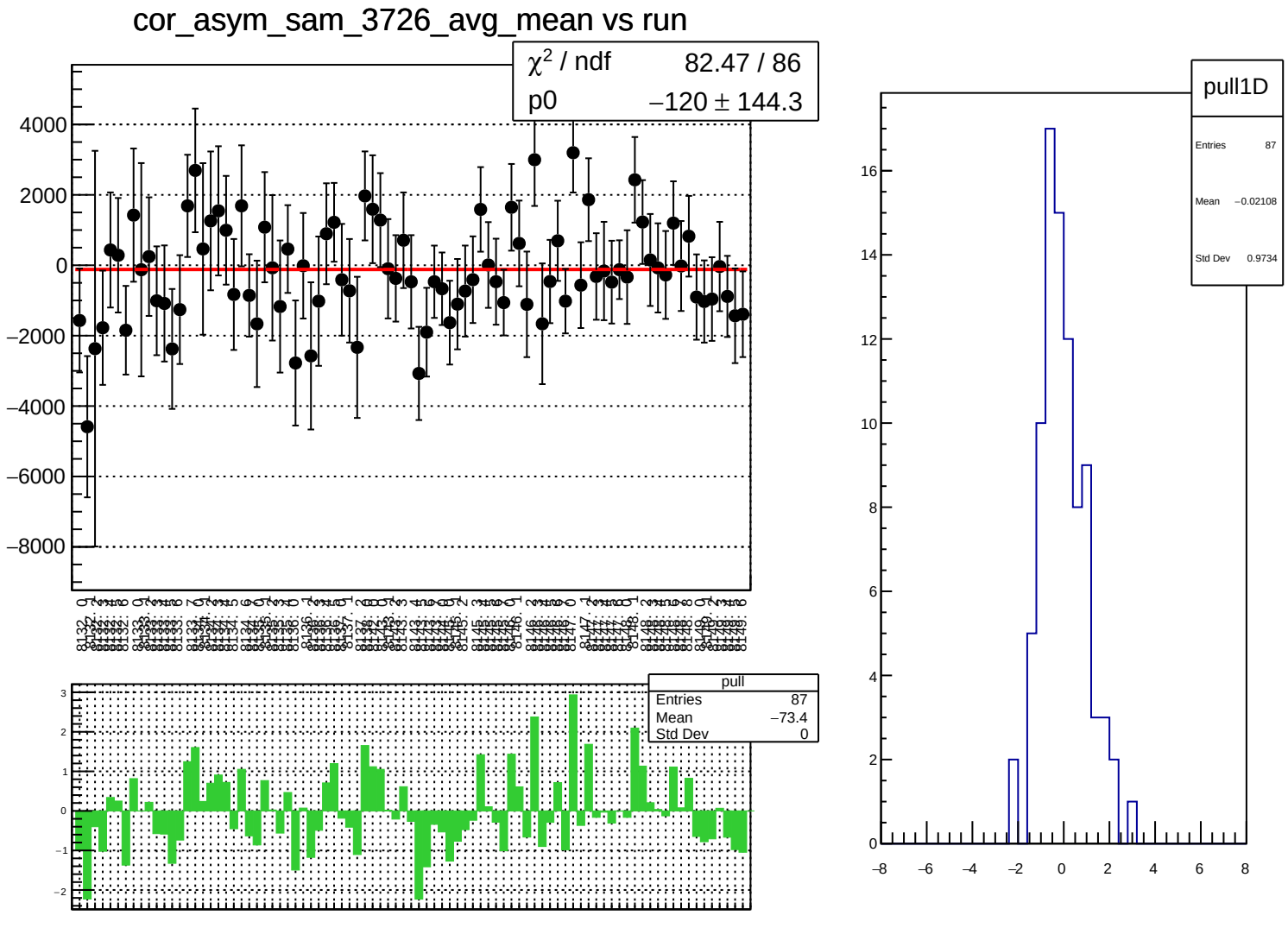

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 82.47 / 86
p0 −120 ± 144.3
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 87
Mean −73.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.02108
Std Dev 0.9734
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

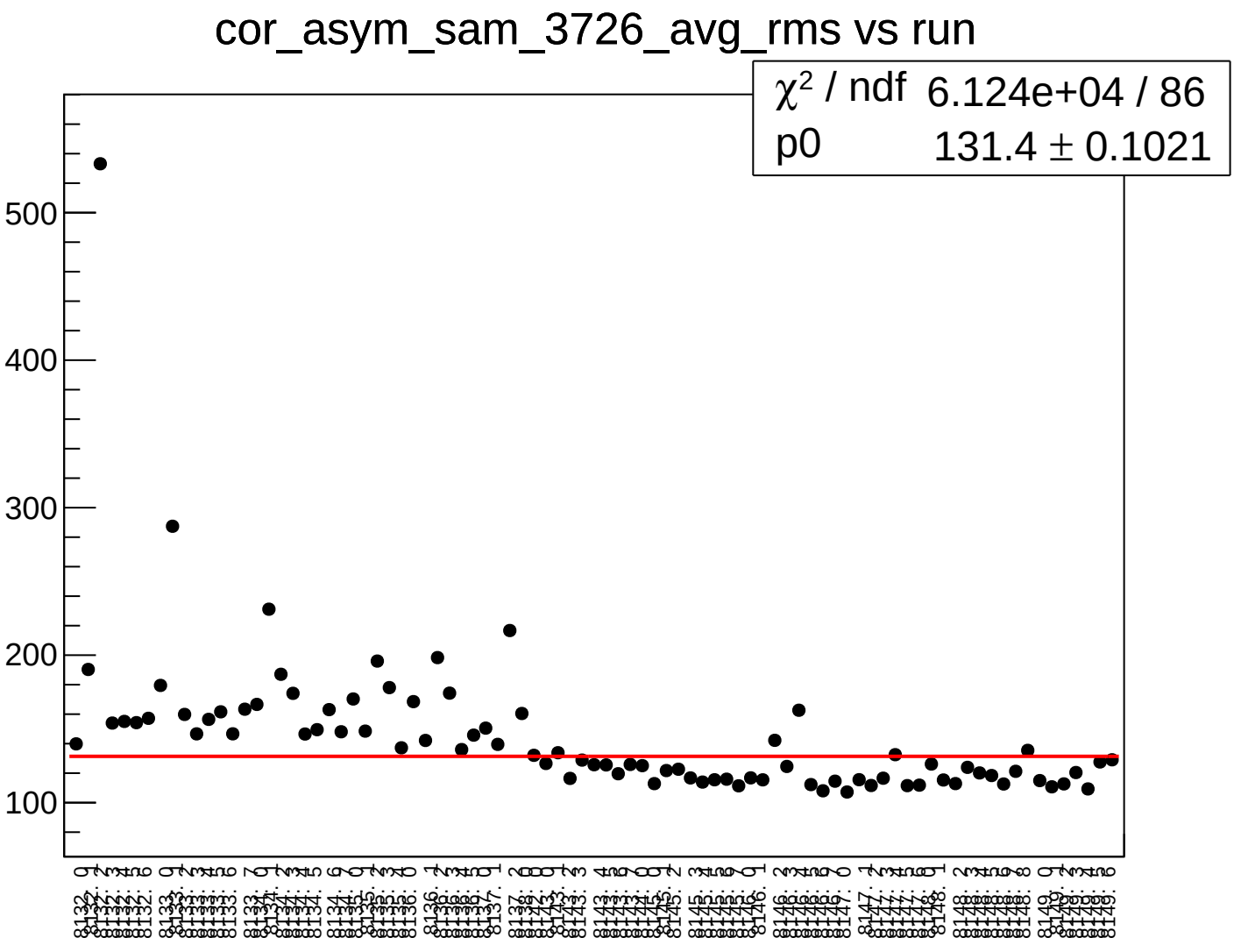

reg_asym_sam_3726_avg_rms vs run
χ² / ndf 6.124e+04 / 86
p0 131.4 ± 0.1021
500
400
300
200
100

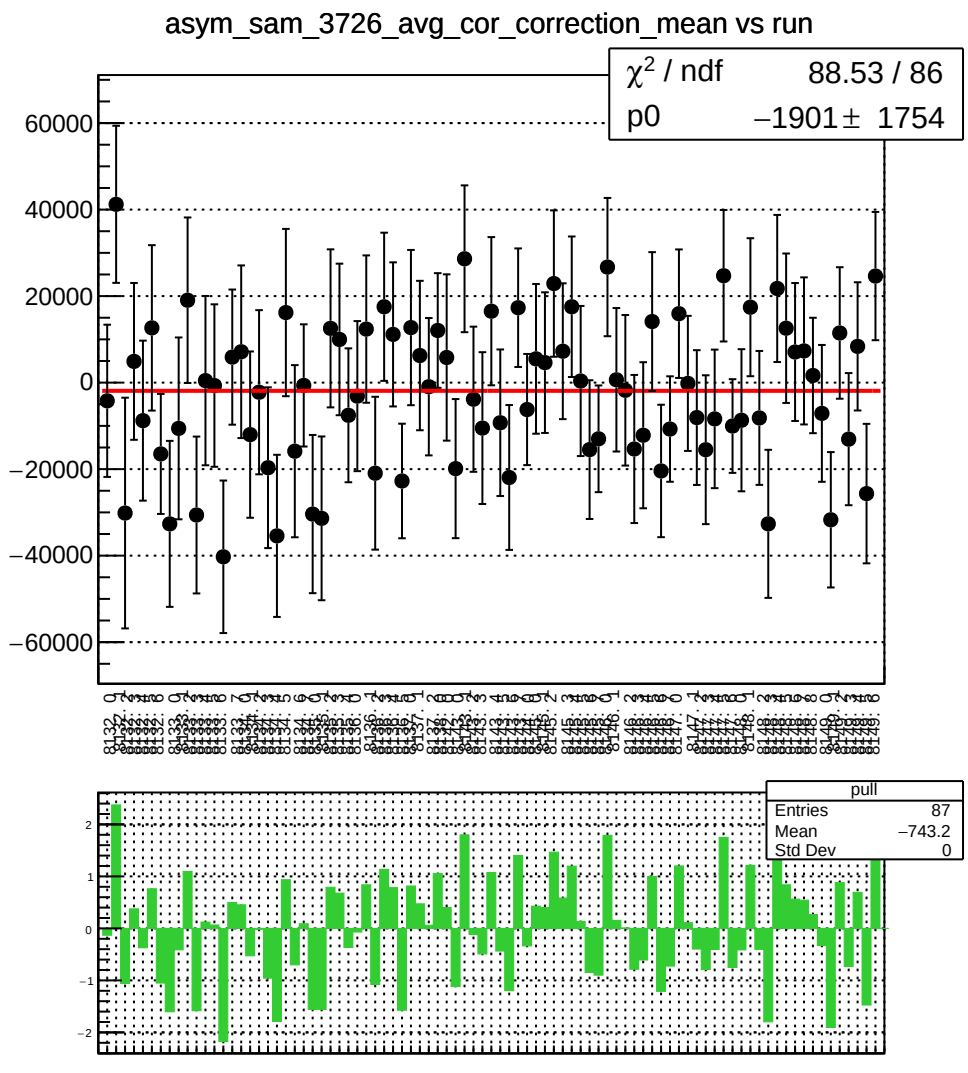

asym_sam_3726_avg_reg_correction_mean vs run
χ² / ndf 88.53 / 86
p0 −1900 ± 1754
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −743
Std Dev 0
2
1
0
−1
−2

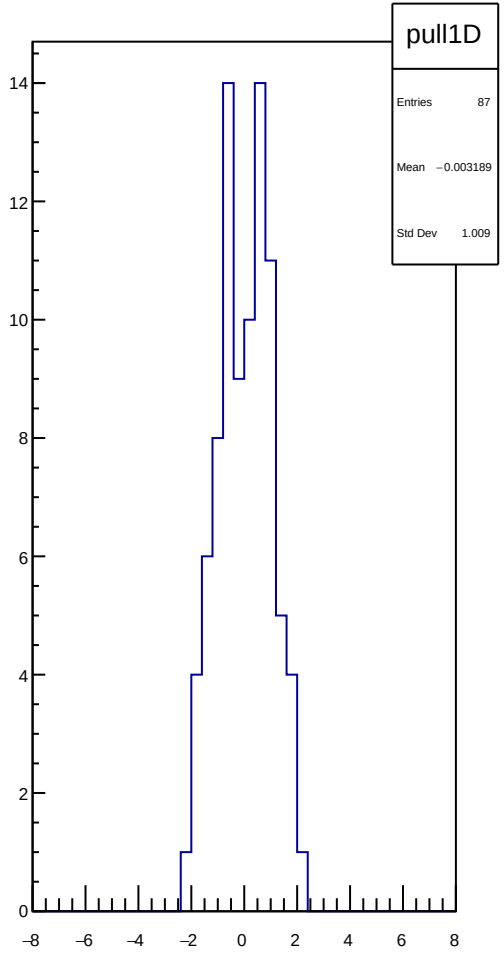

pull1D
Entries 87
Mean −0.00319
Std Dev 1.009
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

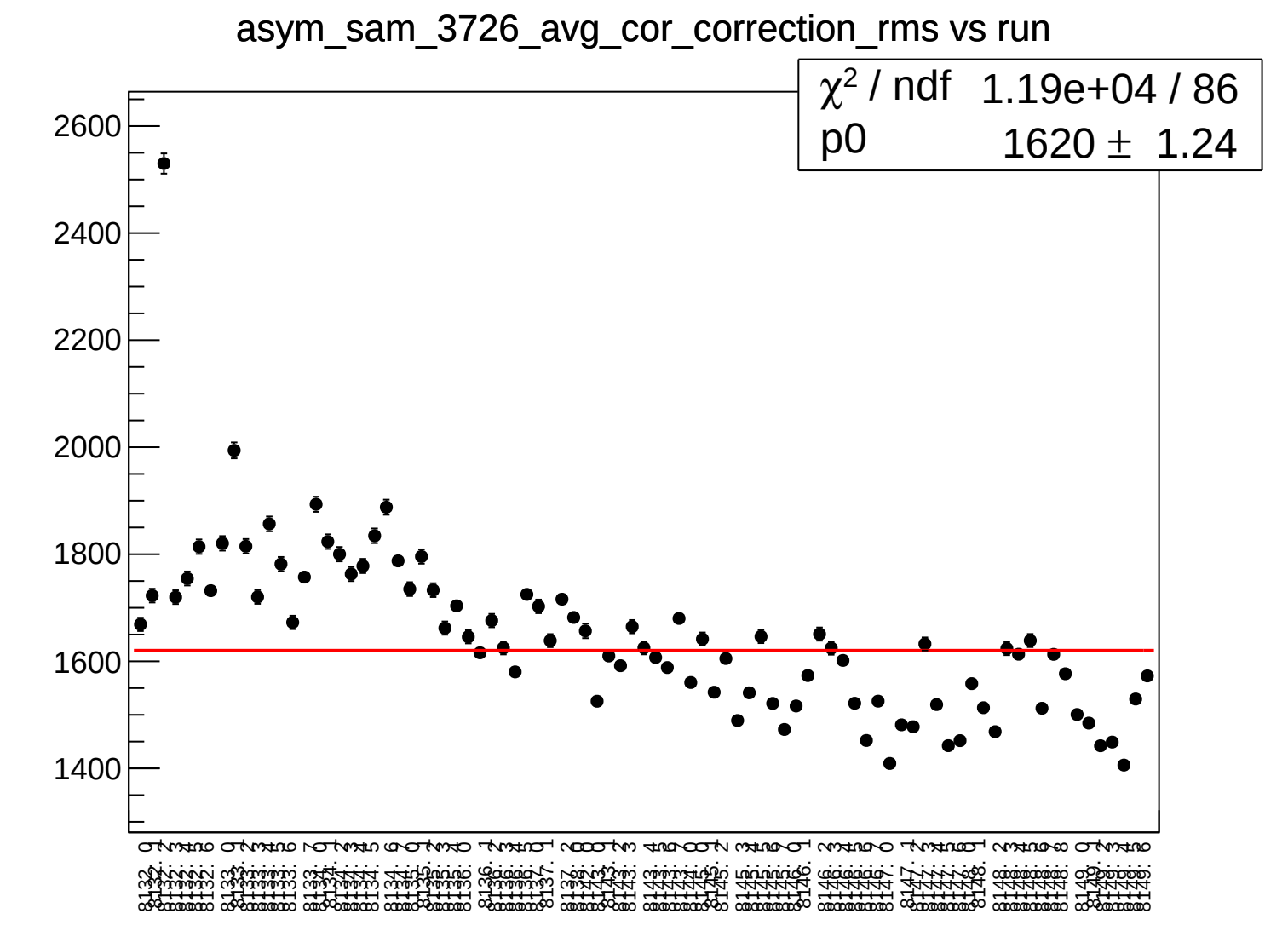

asym_sam_3726_avg_reg_correction_rms vs run
χ² / ndf 1.19e+04 / 86
p0 1620 ± 1.24
2600
2400
2200
2000
1800
1600
1400

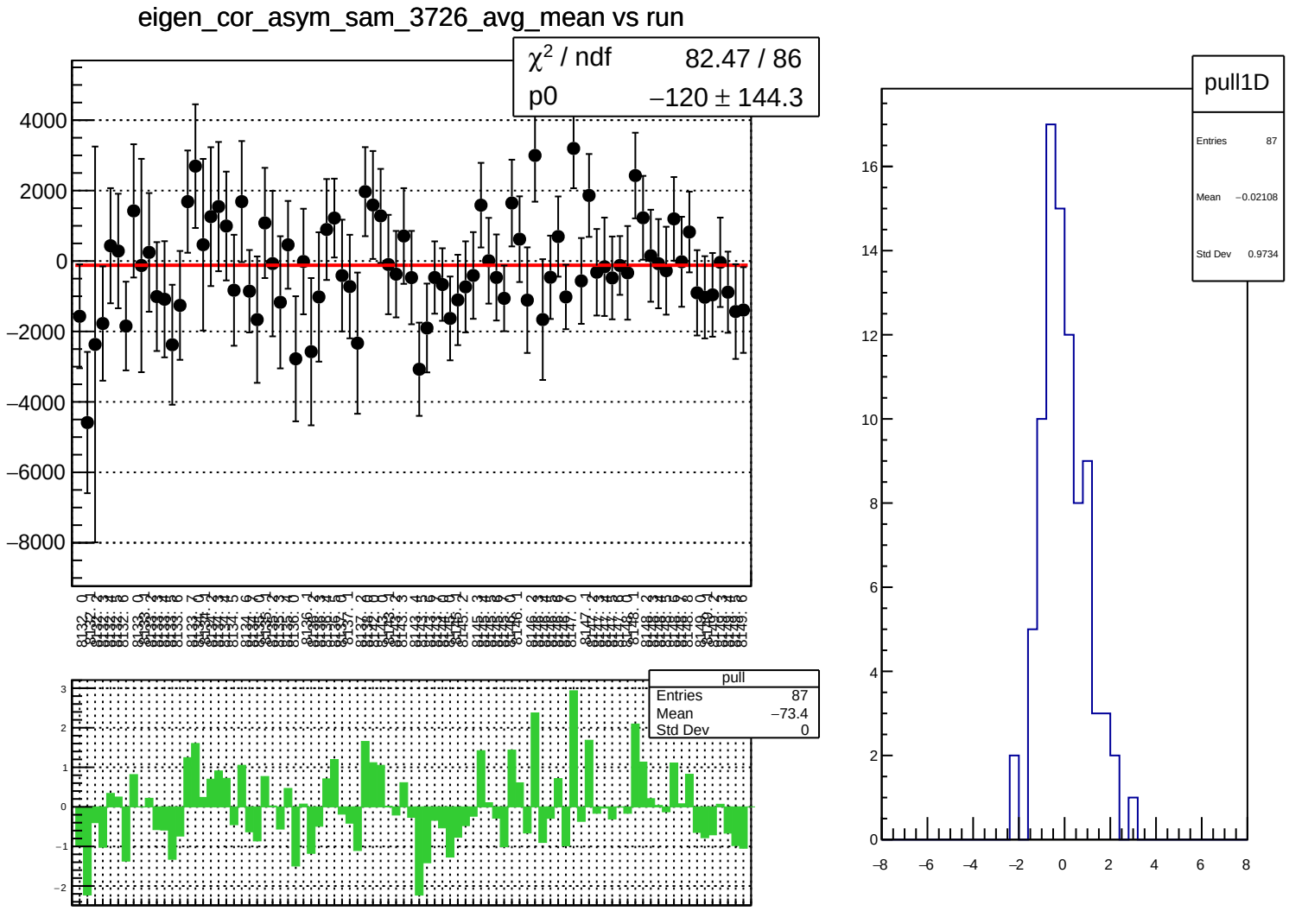

cor_asym_sam_3726_avg_mean vs run
χ² / ndf 82.47 / 86
p0 −120 ± 144.3
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 87
Mean −73.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.02108
Std Dev 0.9734
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

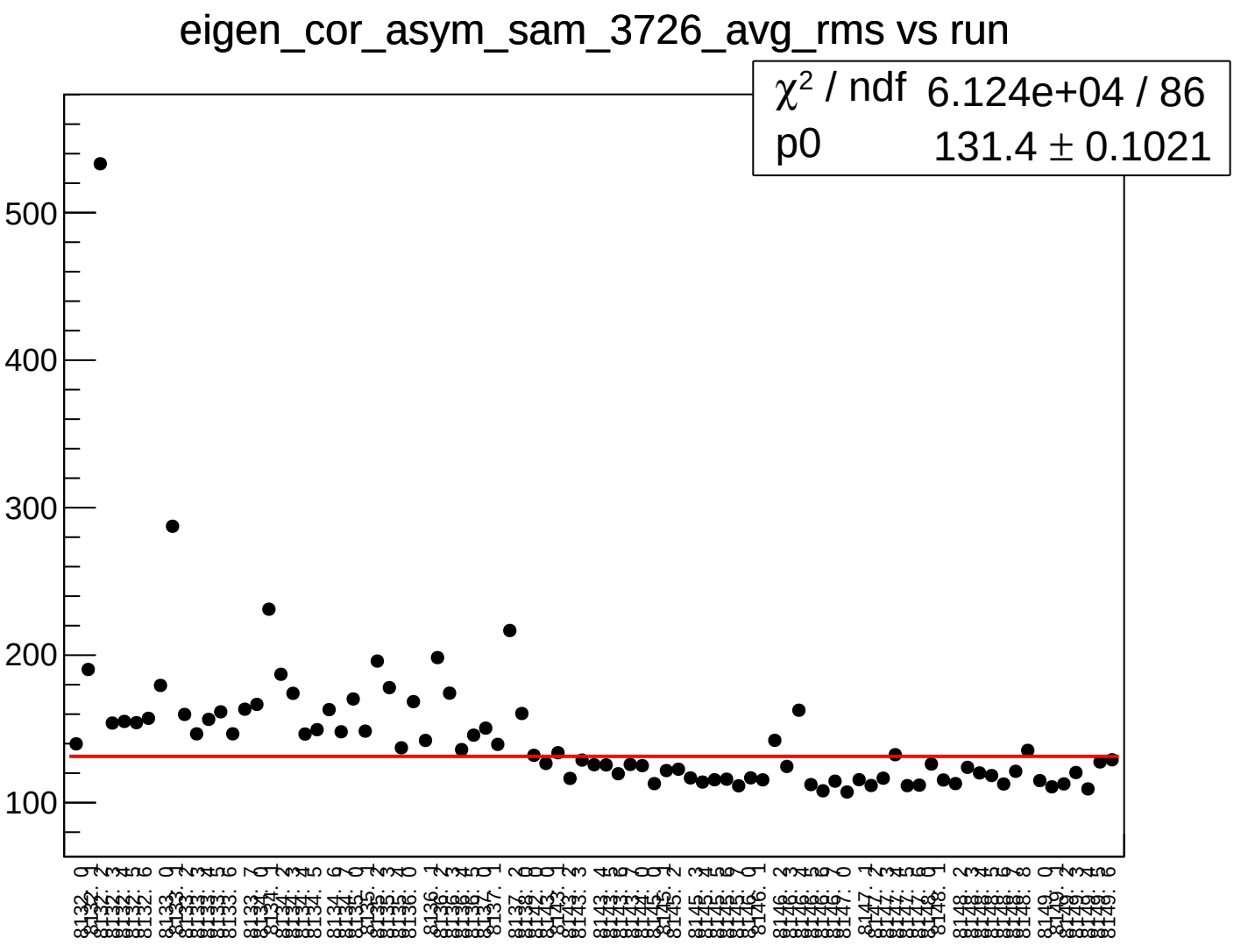

cor_asym_sam_3726_avg_rms vs run
χ² / ndf 6.124e+04 / 86
p0 131.4 ± 0.1021
500
400
300
200
100

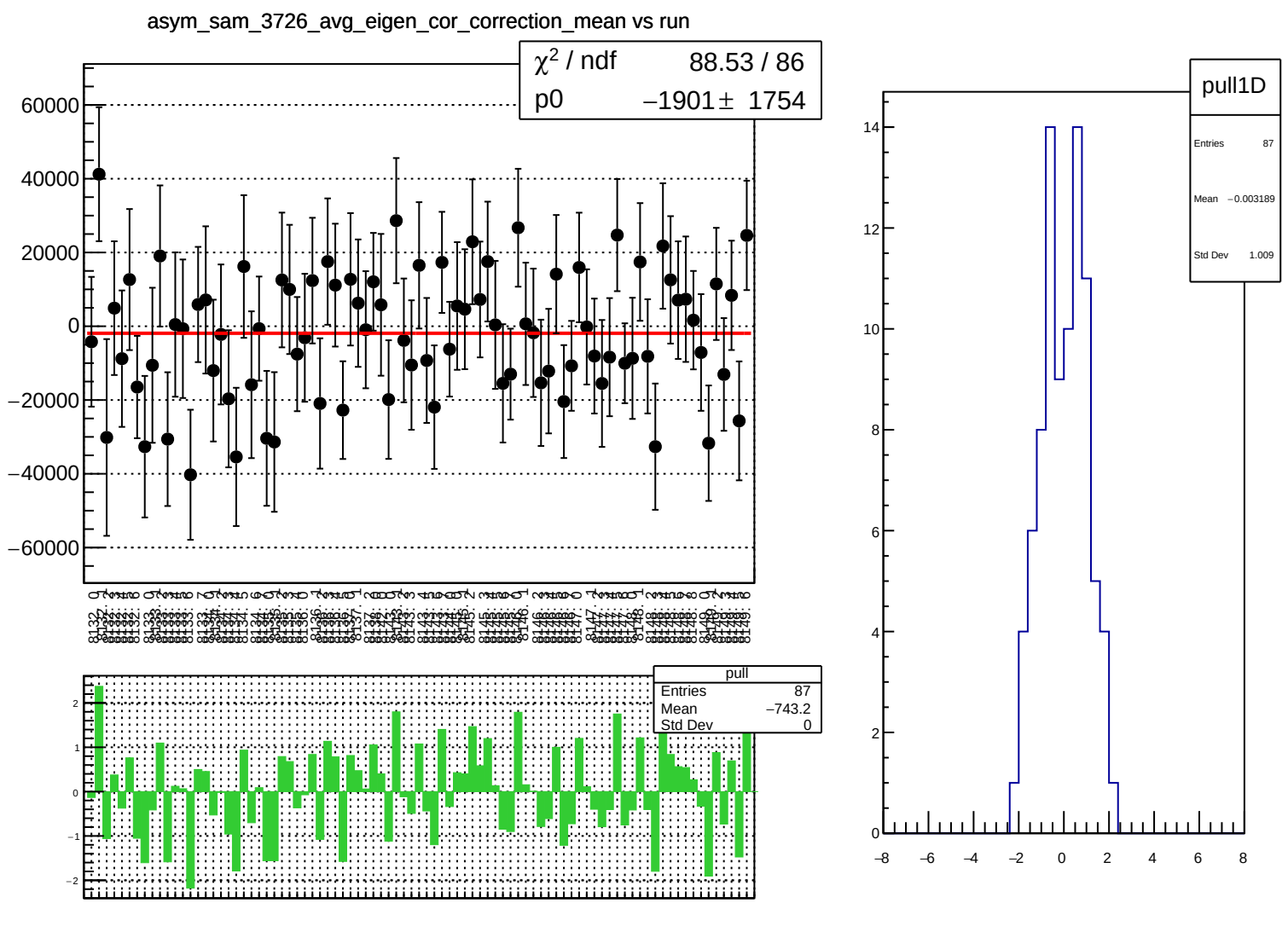

asym_sam_3726_avg_cor_correction_mean vs run
χ² / ndf 88.53 / 86
p0 −1901 ± 1754
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −743.2
Std Dev 0
2
1
0
−1
−2

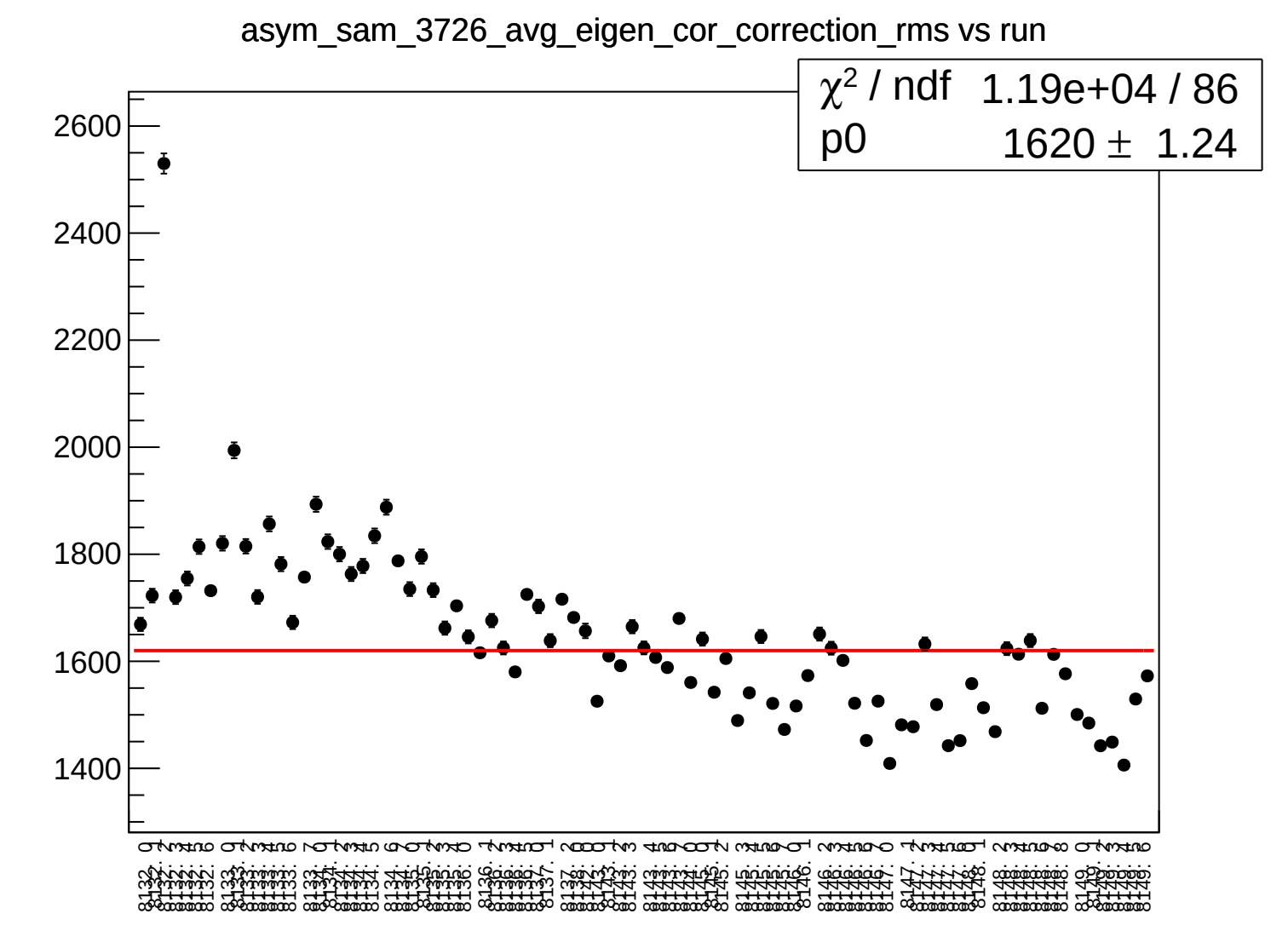

pull1D
Entries 87
Mean −0.003189
Std Dev 1.009
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

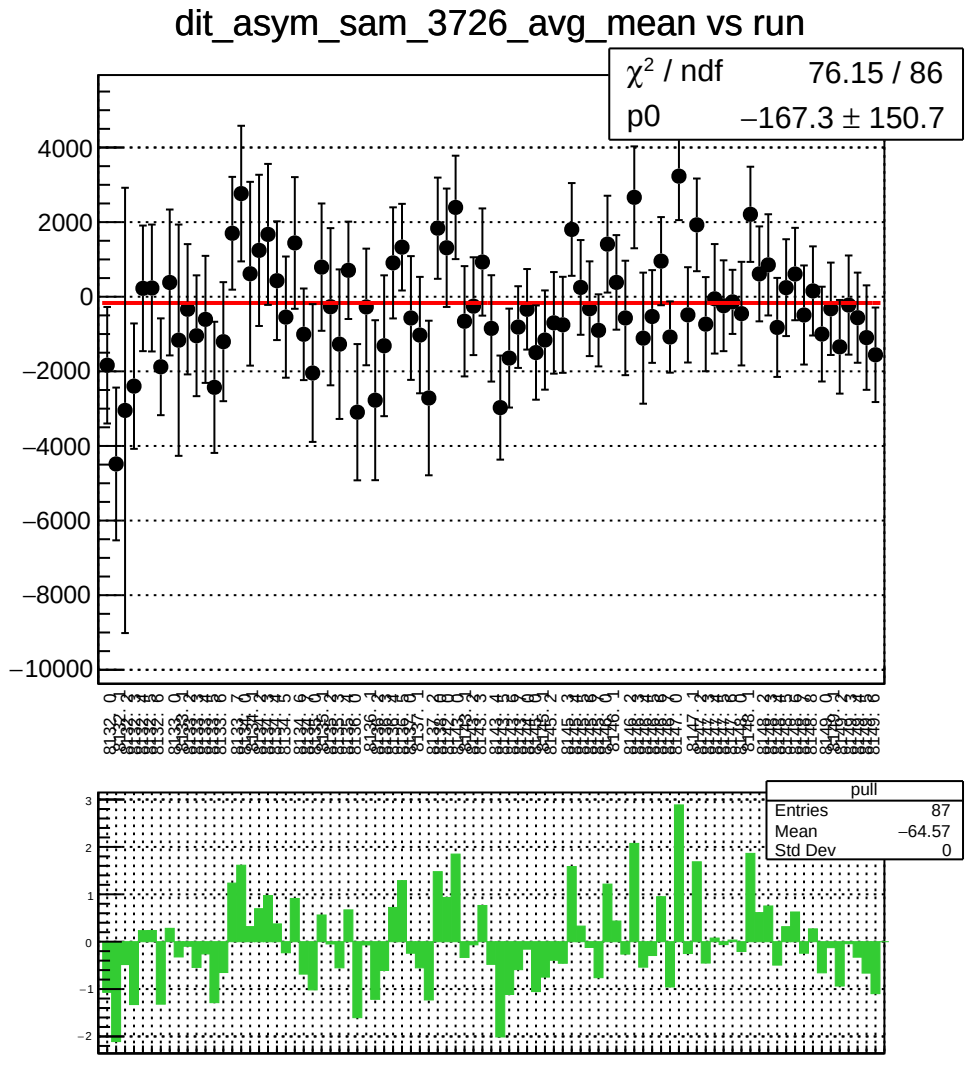

asym_sam_3726_avg_cor_correction_rms vs run
χ² / ndf 1.19e+04 / 86
p0 1620 ± 1.24
2600
2400
2200
2000
1800
1600
1400

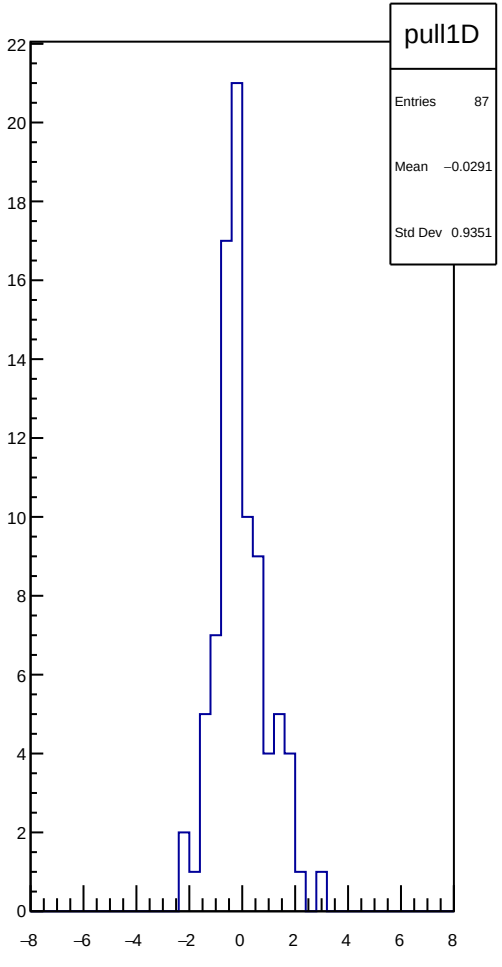

eigen_cor_asym_sam_3726_avg_mean vs run
χ² / ndf 82.47 / 86
p0 −120 ± 144.3
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 87
Mean −73.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.02108
Std Dev 0.9734
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

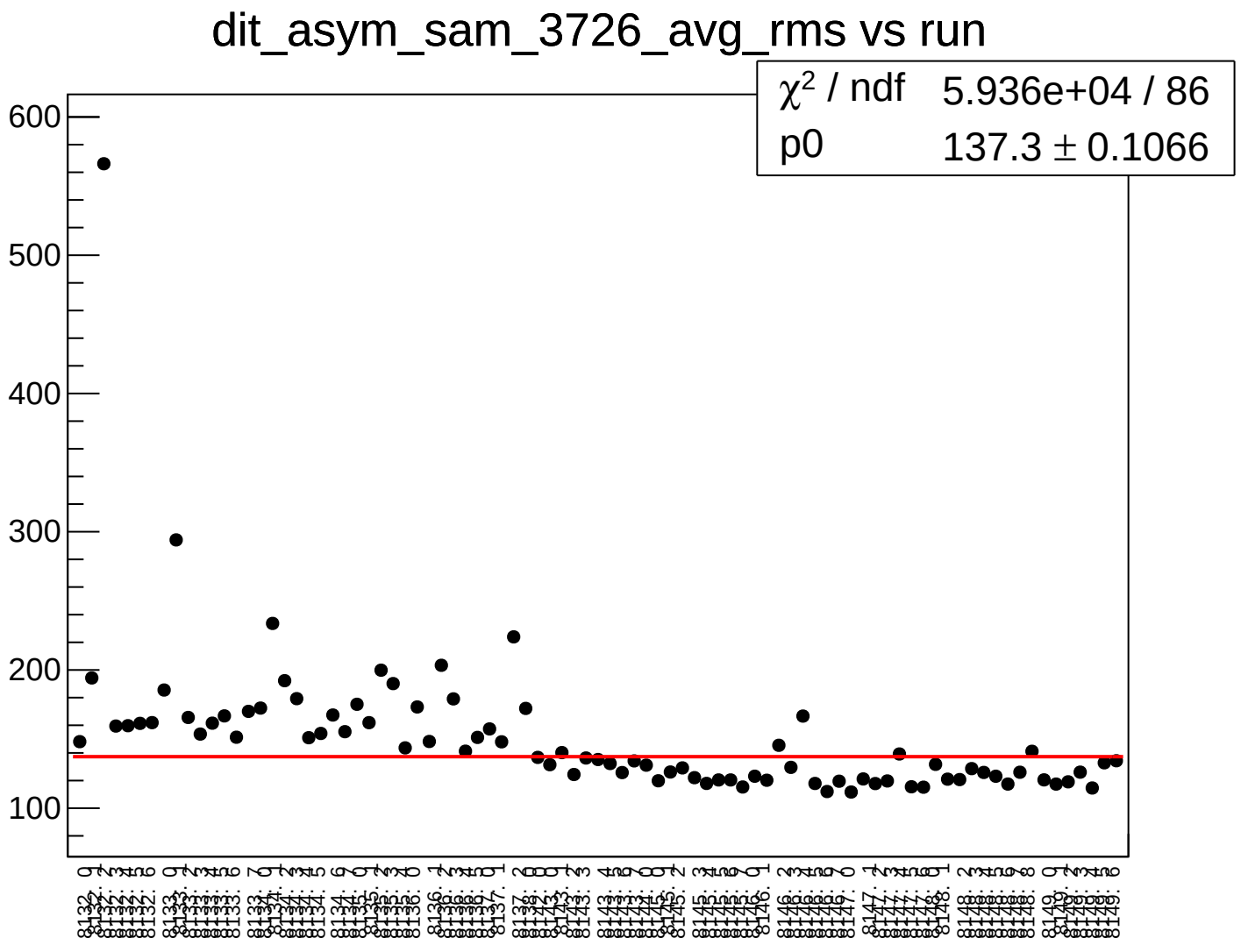

eigen_cor_asym_sam_3726_avg_rms vs run
χ² / ndf 6.124e+04 / 86
p0 131.4 ± 0.1021
500
400
300
200
100

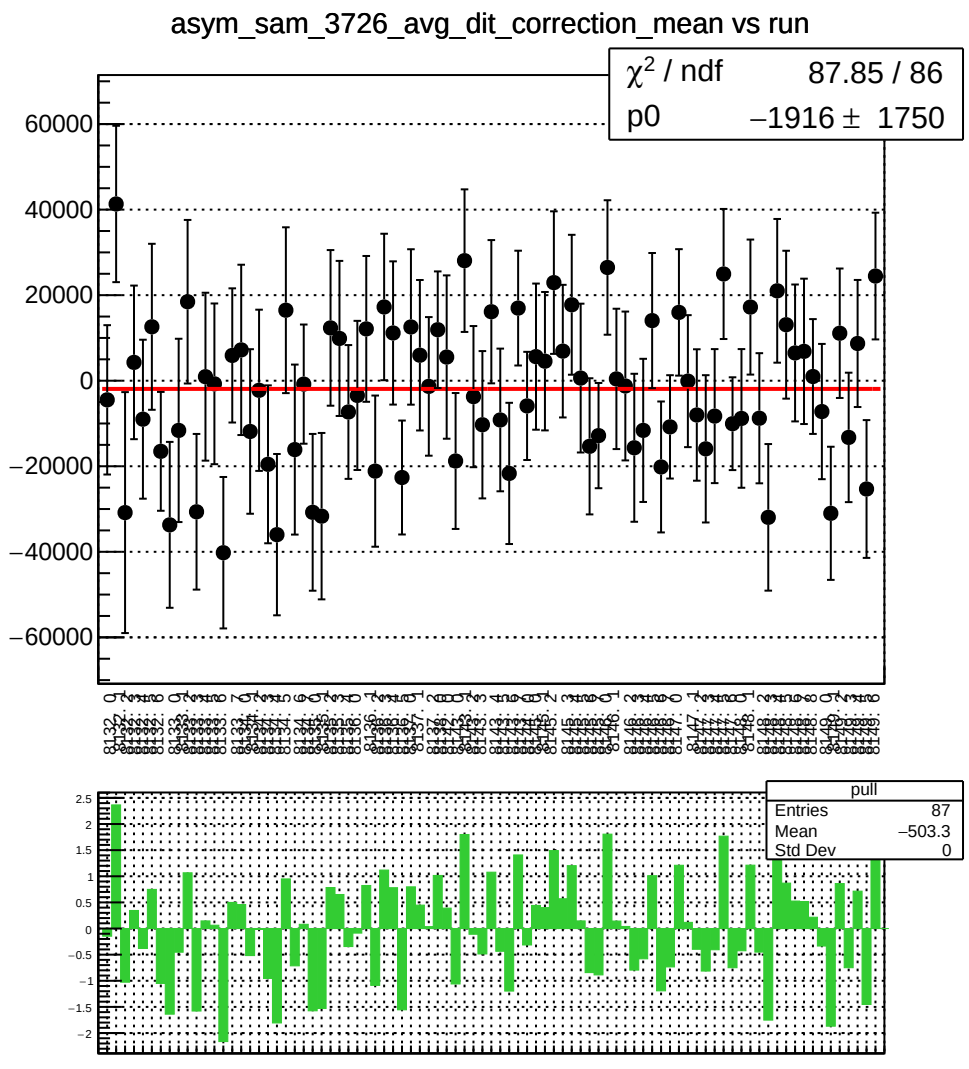

asym_sam_3726_avg_eigen_cor_correction_mean vs run
χ² / ndf 88.53 / 86
p0 −1901 ± 1754
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −743.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.003189
Std Dev 1.009
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

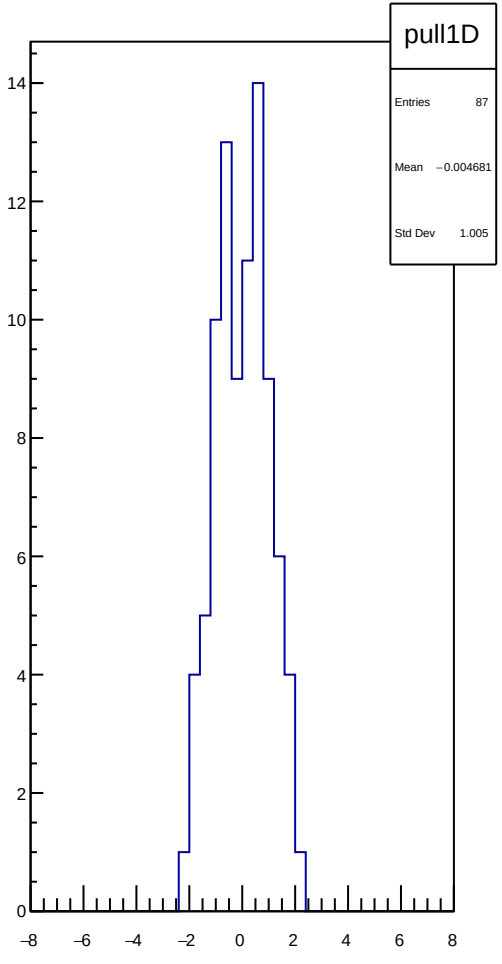

asym_sam_3726_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.19e+04 / 86
p0 1620 ± 1.24
2600
2400
2200
2000
1800
1600
1400

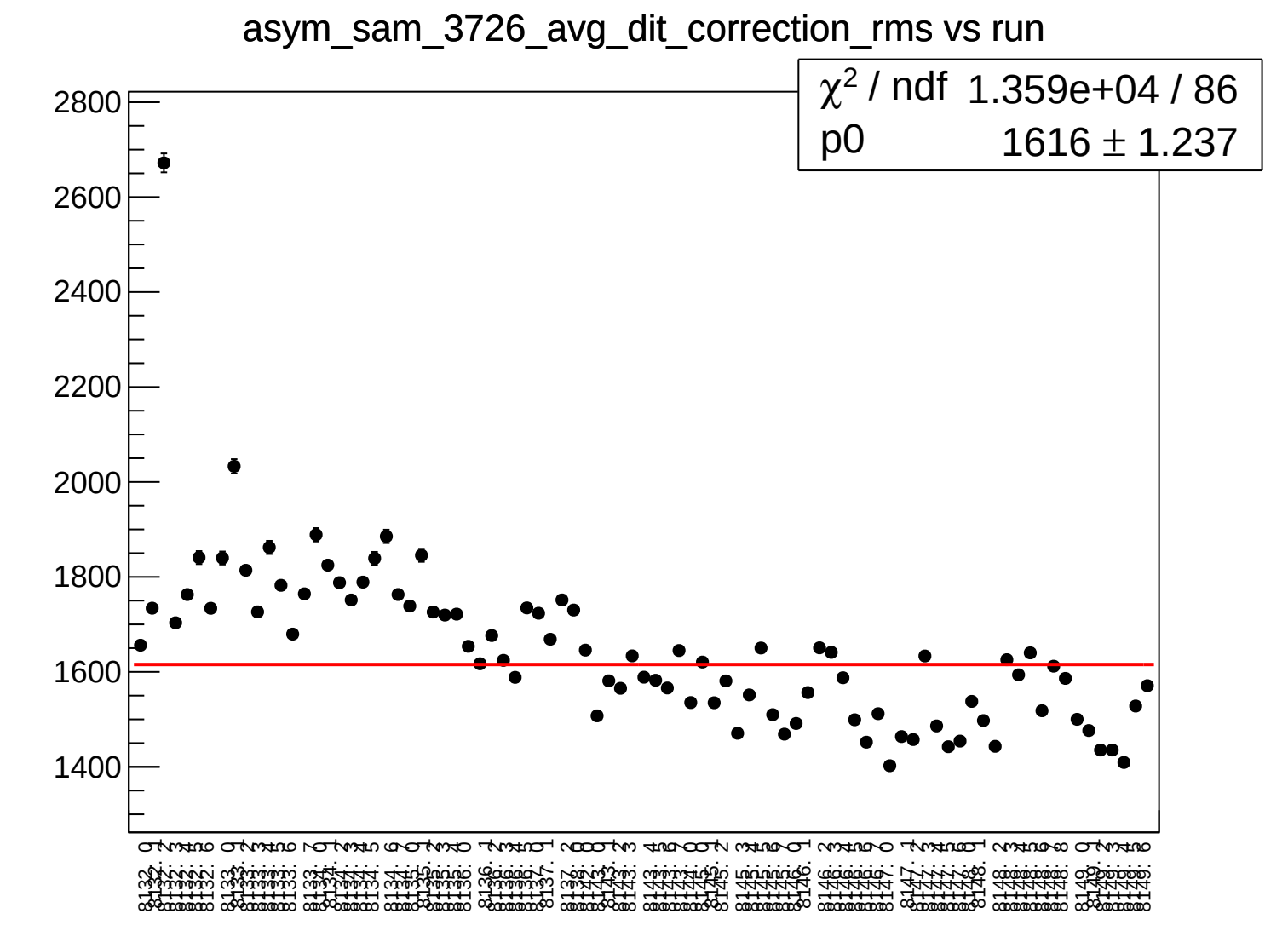

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 76.15 / 86
p0 −167.3 ± 150.7
4000
2000
0
−2000
−4000
−6000
−8000
−10000
pull
Entries 87
Mean −64.57
Std Dev 0
3
2
1
0
−1
−2

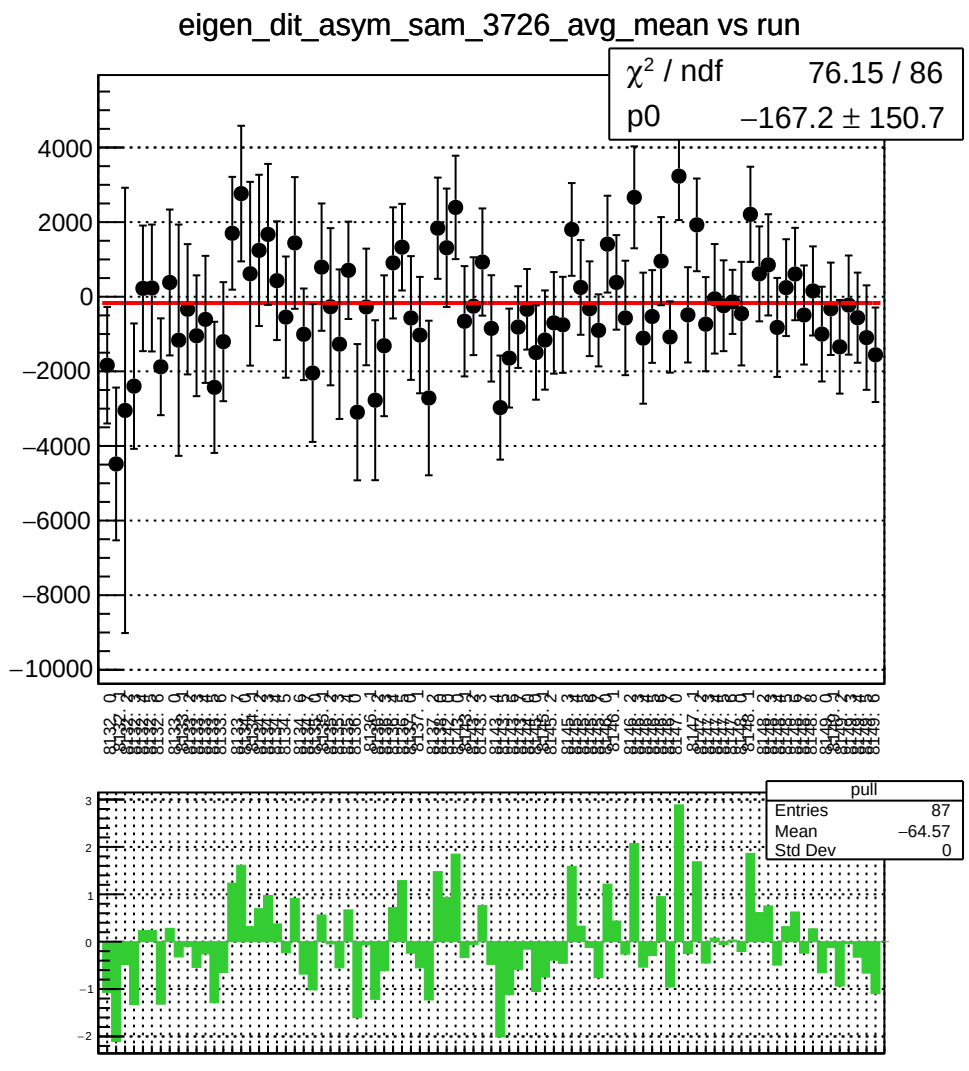

pull1D
Entries 87
Mean −0.0291
Std Dev 0.9351
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

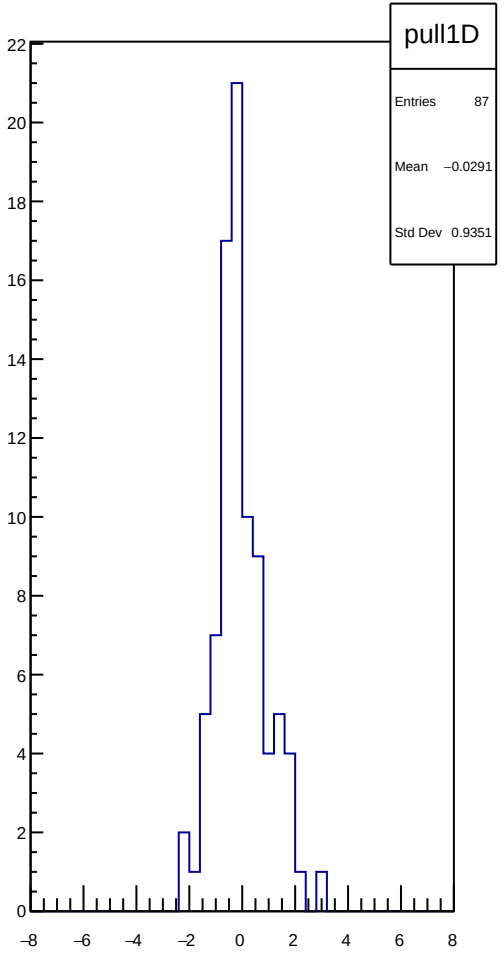

dit_asym_sam_3726_avg_rms vs run
χ^2 / ndf 5.936e+04 / 86
p0 137.3 ± 0.1066
600
500
400
300
200
100

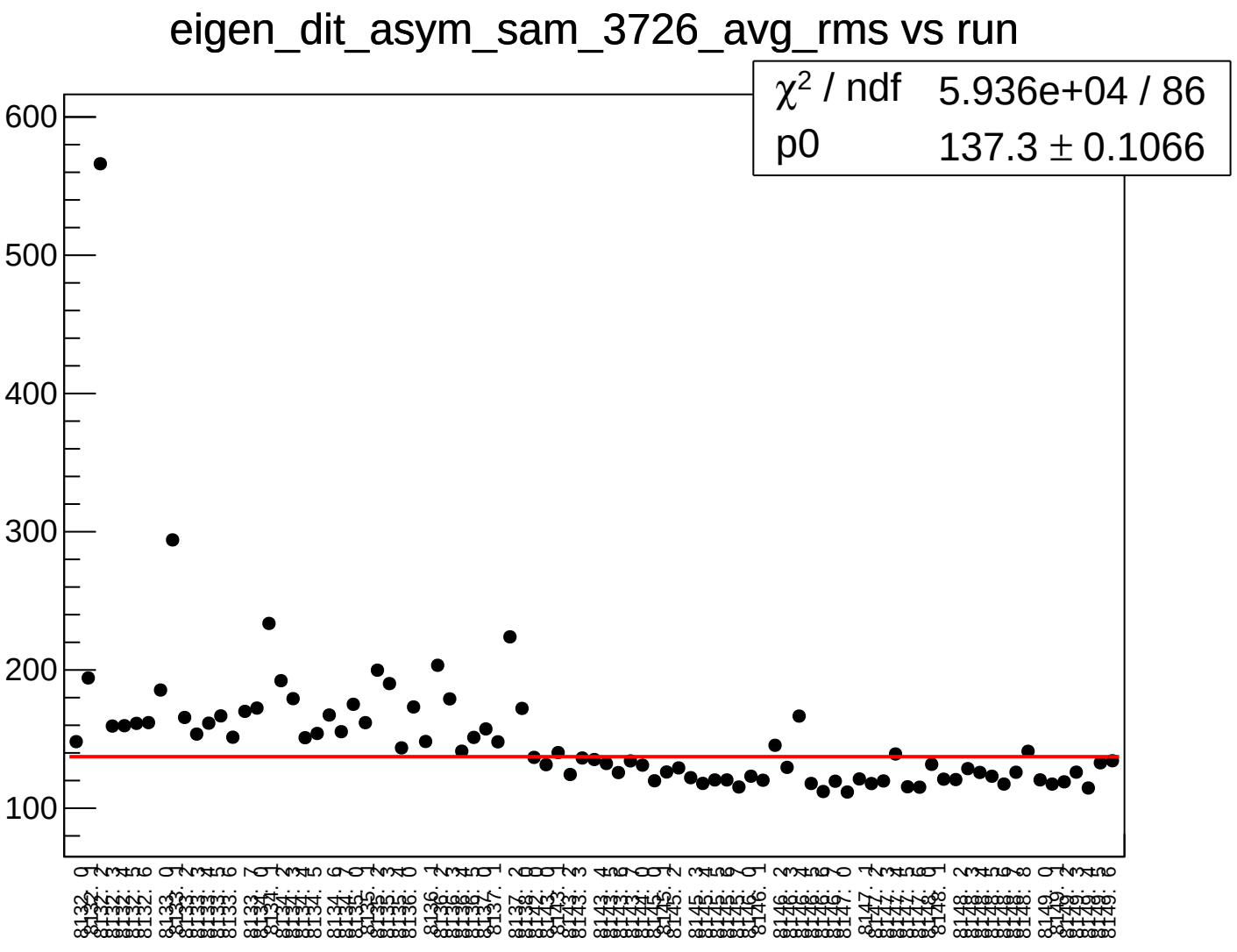

asym_sam_3726_avg_dit_correction_mean vs run
χ² / ndf 87.85 / 86
p0 −1916 ± 1750
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −503.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

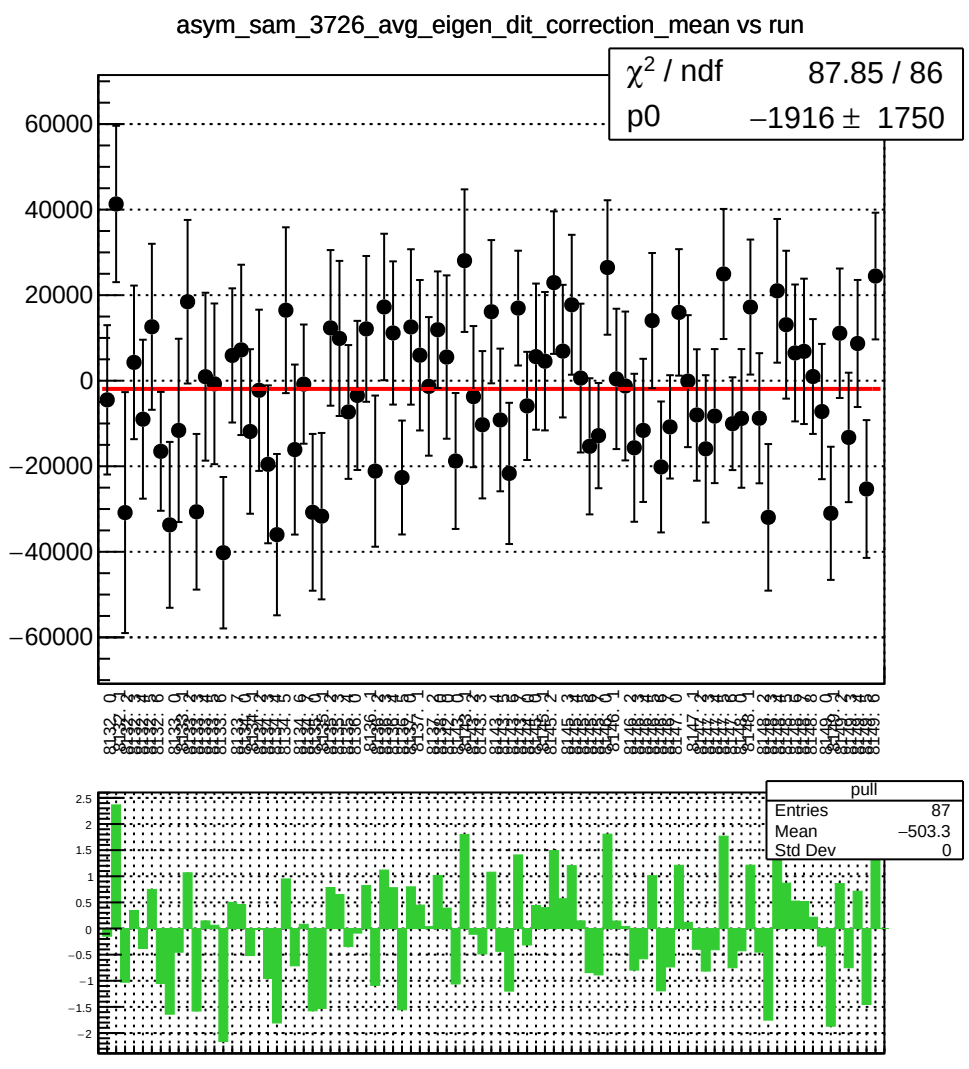

pull1D
Entries 87
Mean −0.004681
Std Dev 1.005
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

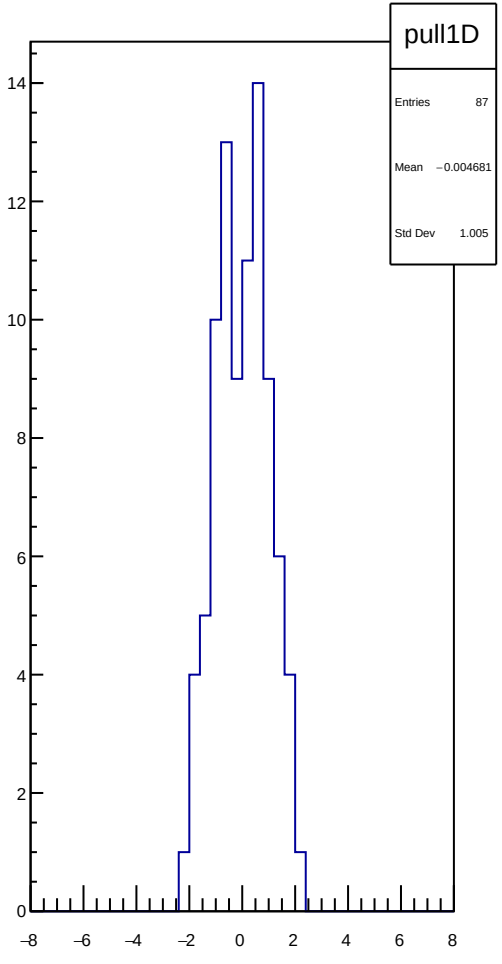

asym_sam_3726_avg_dit_correction_rms vs run
χ^2 / ndf 1.359e+04 / 86
p0 1616 ± 1.237
2800
2600
2400
2200
2000
1800
1600
1400

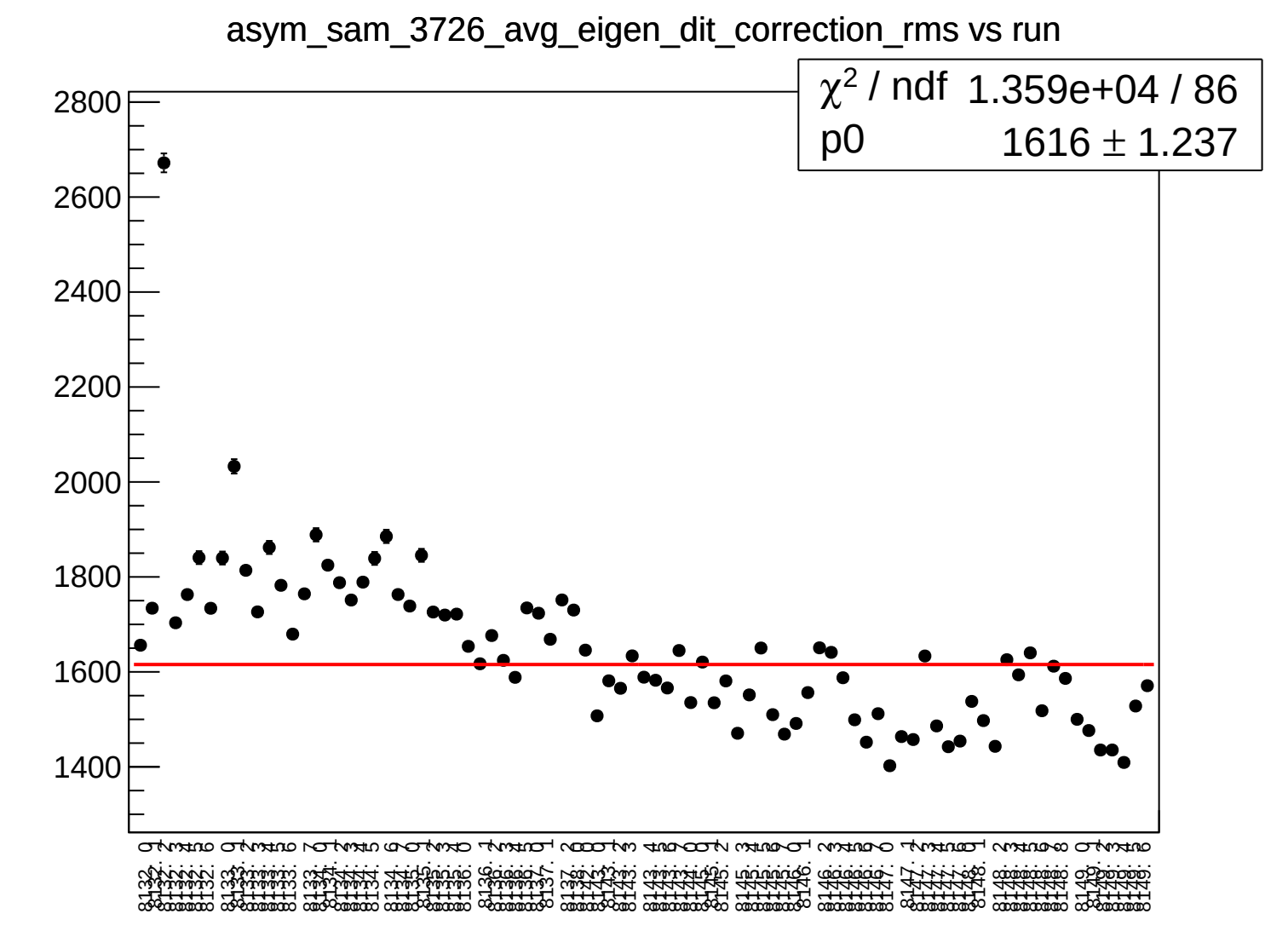

eigen_dit_asym_sam_3726_avg_mean vs run
χ² / ndf 76.15 / 86
p0 −167.2 ± 150.7
4000
2000
0
−2000
−4000
−6000
−8000
−10000
pull
Entries 87
Mean −64.57
Std Dev 0
3
2
1
0
−1
−2

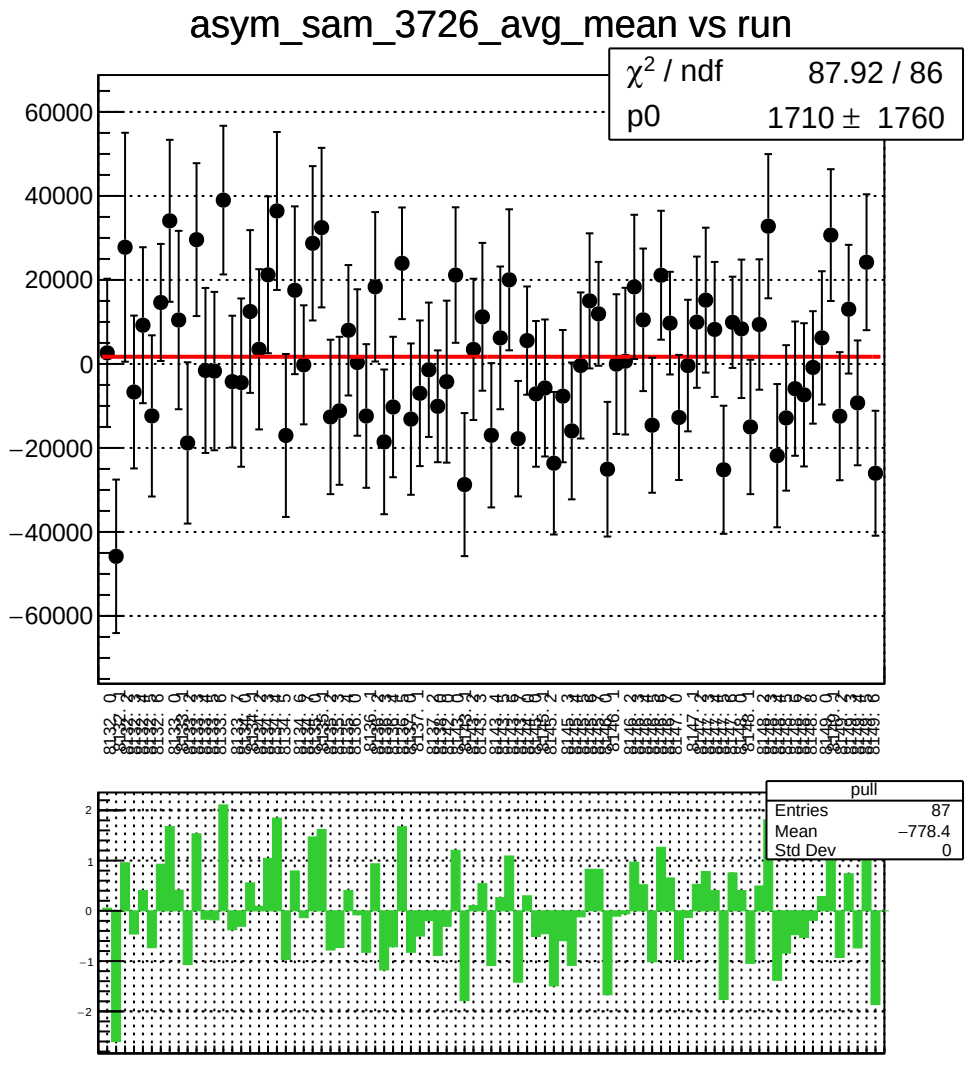

pull1D
Entries 87
Mean −0.0291
Std Dev 0.9351
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

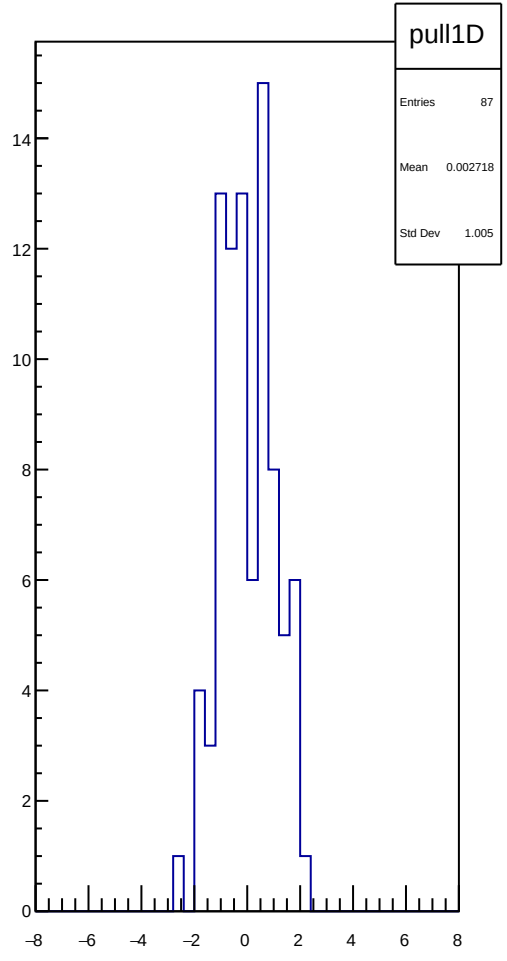

eigen_dit_asym_sam_3726_avg_rms vs run
χ^2 / ndf 5.936e+04 / 86
p0 137.3 ± 0.1066
600
500
400
300
200
100

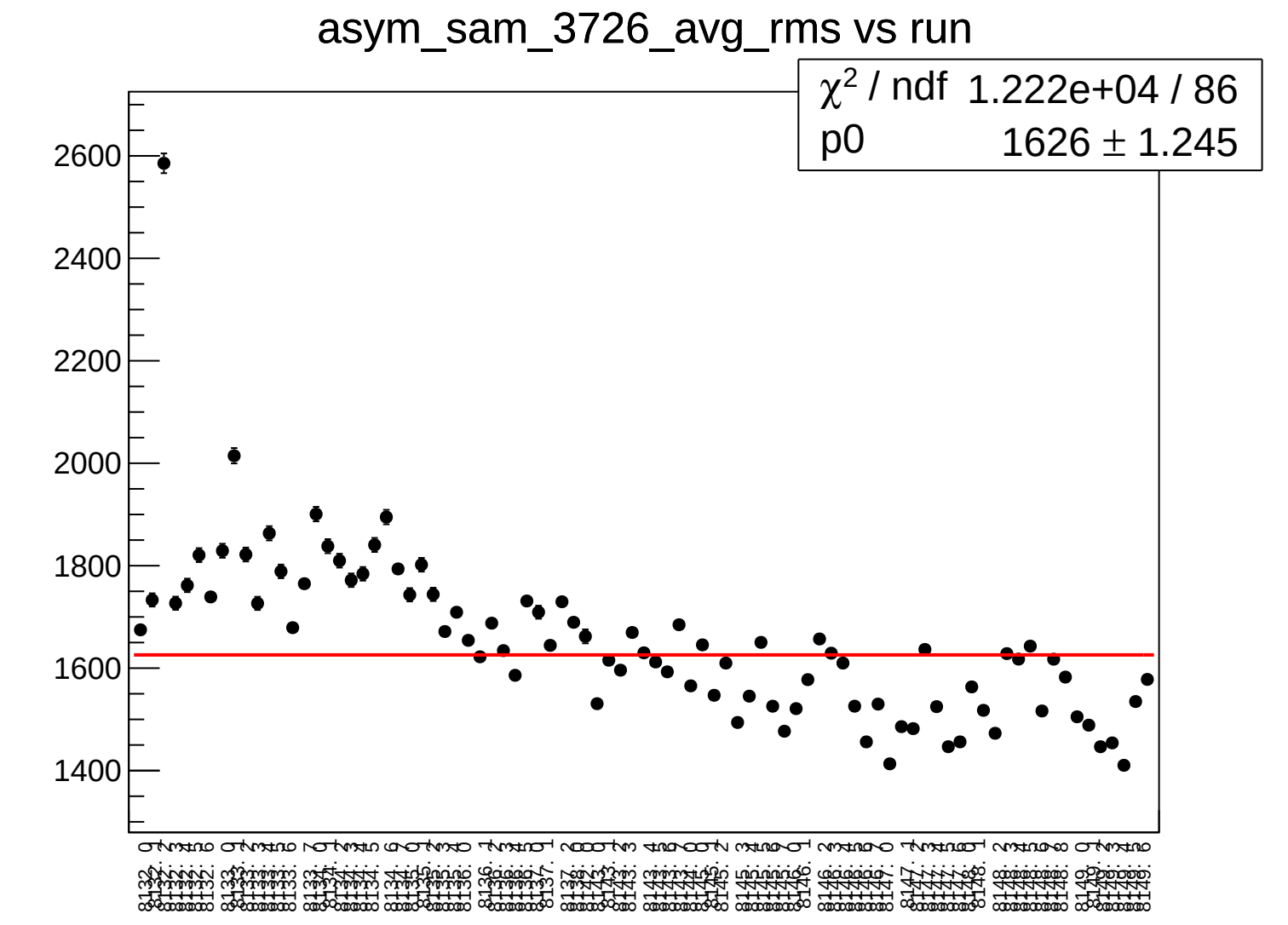

asym_sam_3726_avg_eigen_dit_correction_mean vs run
χ² / ndf 87.85 / 86
p0 −1916 ± 1750
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −503.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

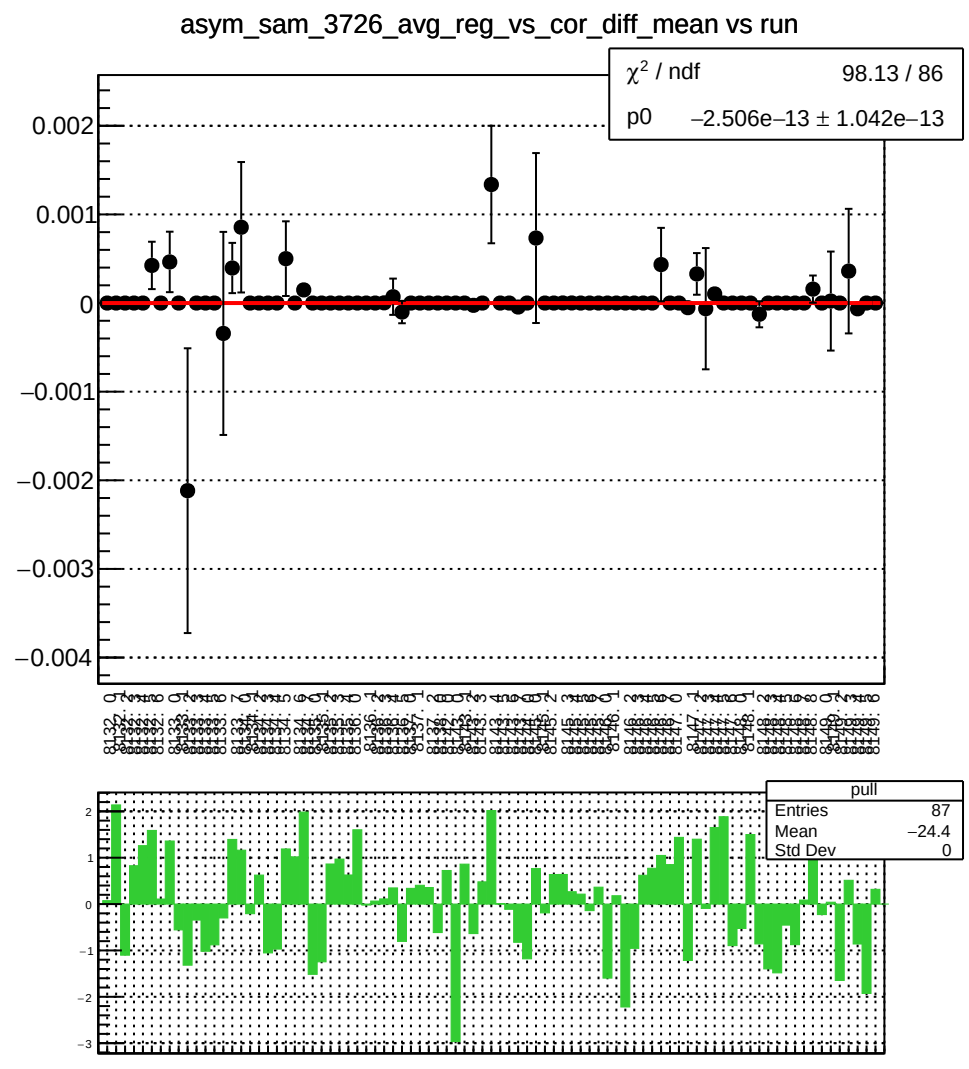

pull1D
Entries 87
Mean −0.004681
Std Dev 1.005
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

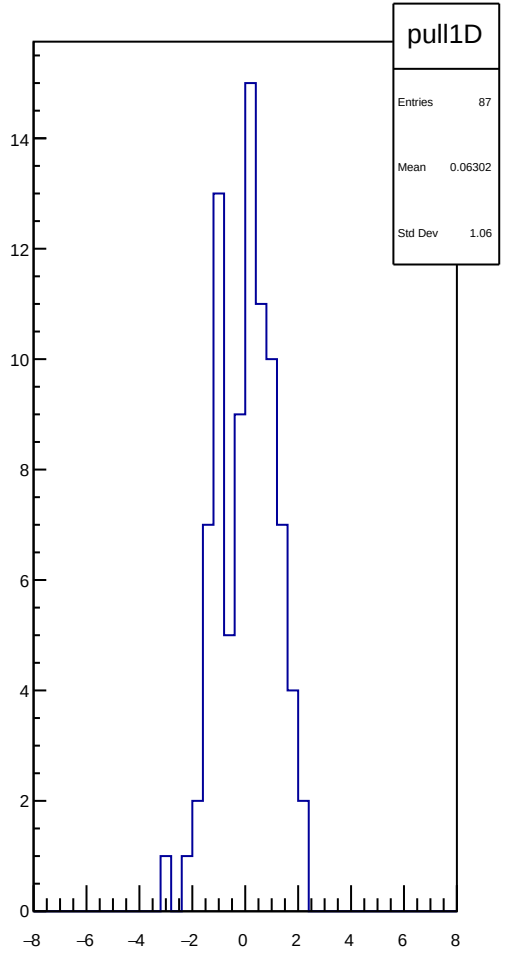

asym_sam_3726_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.359e+04 / 86
p0 1616 ± 1.237
2800
2600
2400
2200
2000
1800
1600
1400

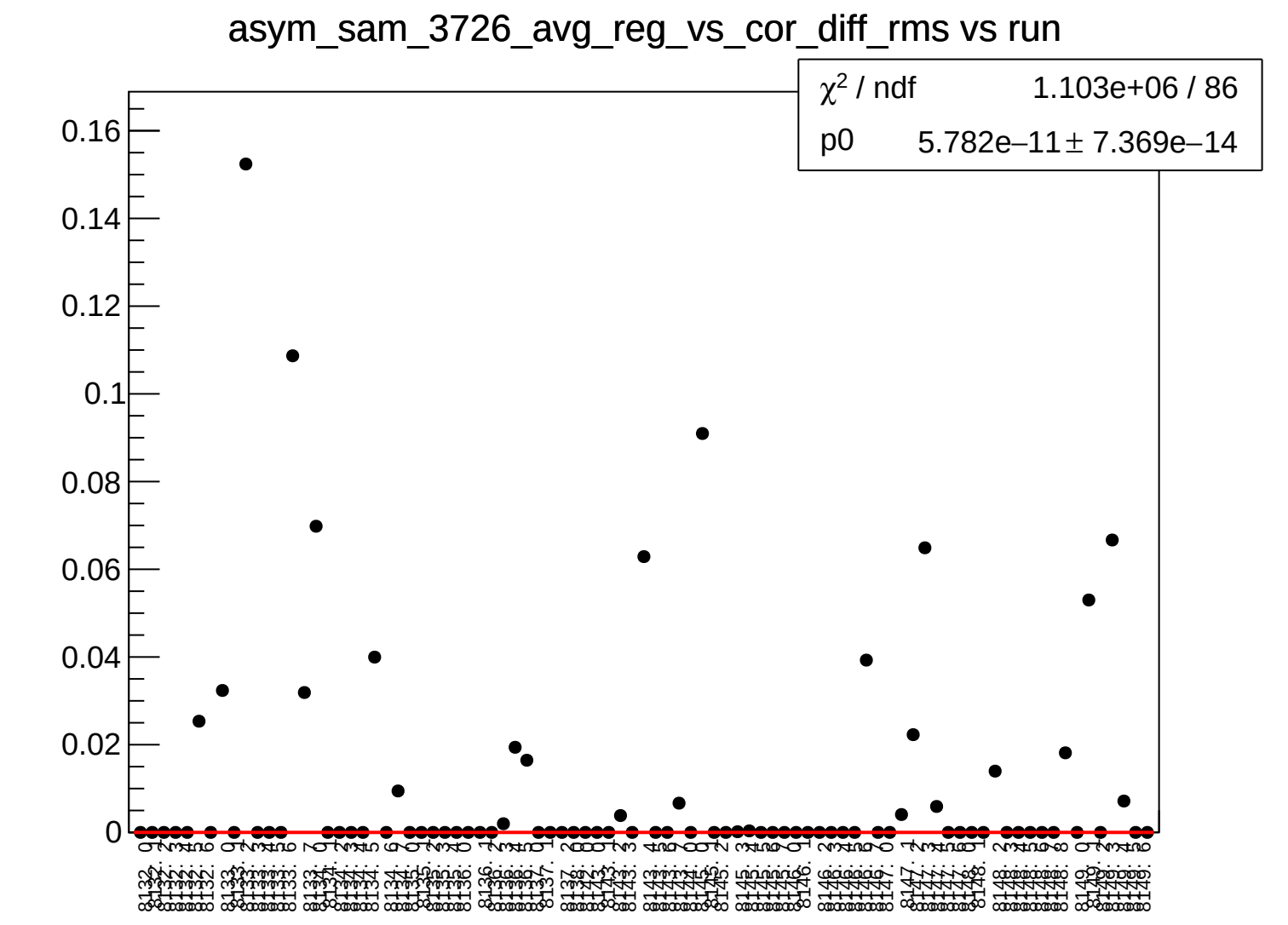

asym_sam_3726_avg_mean vs run
χ² / ndf 87.92 / 86
p0 1710 ± 1760
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −778.4
Std Dev 0
2
1
0
−1
−2

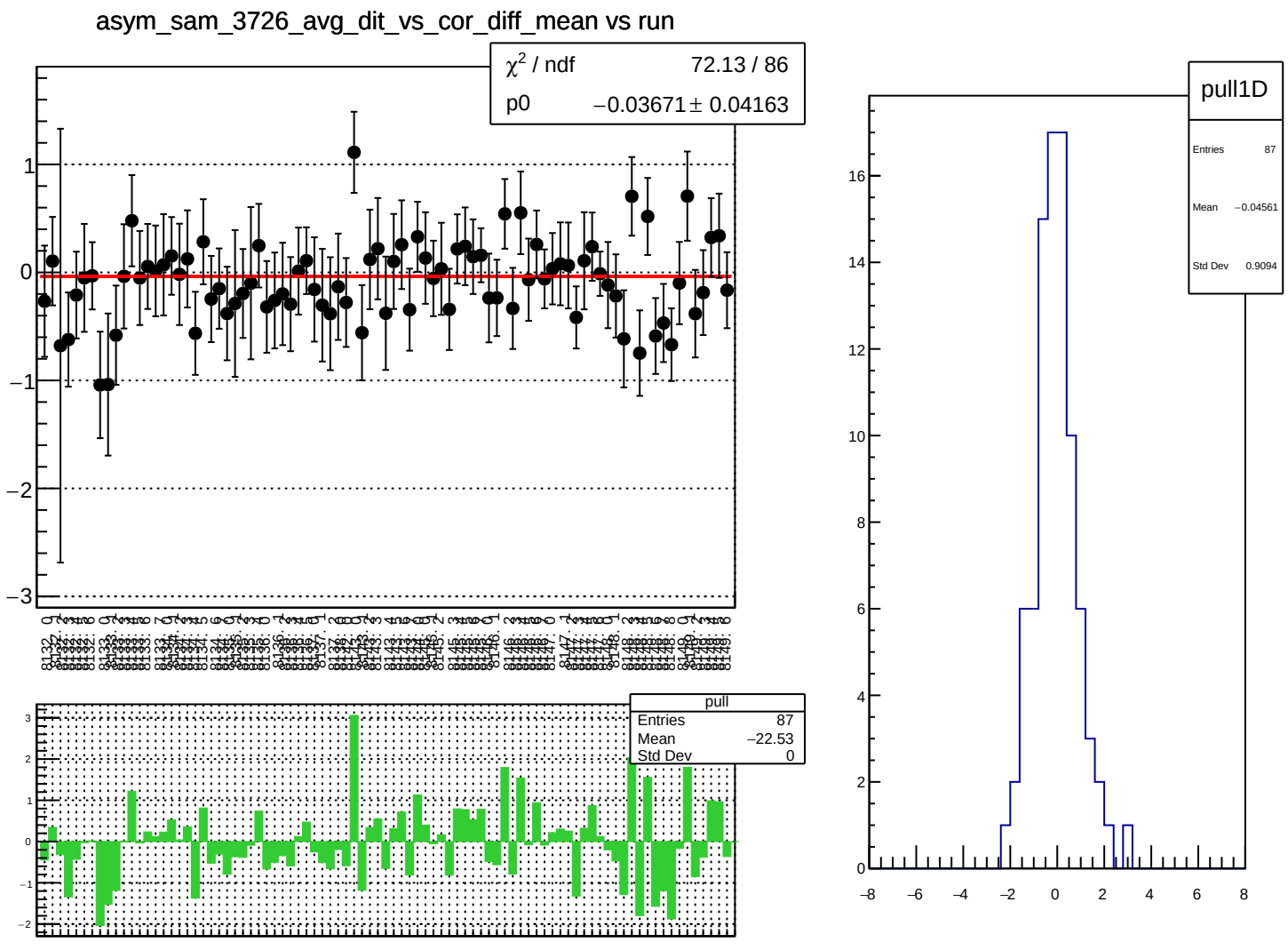

pull1D
Entries 87
Mean 0.002718
Std Dev 1.005
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

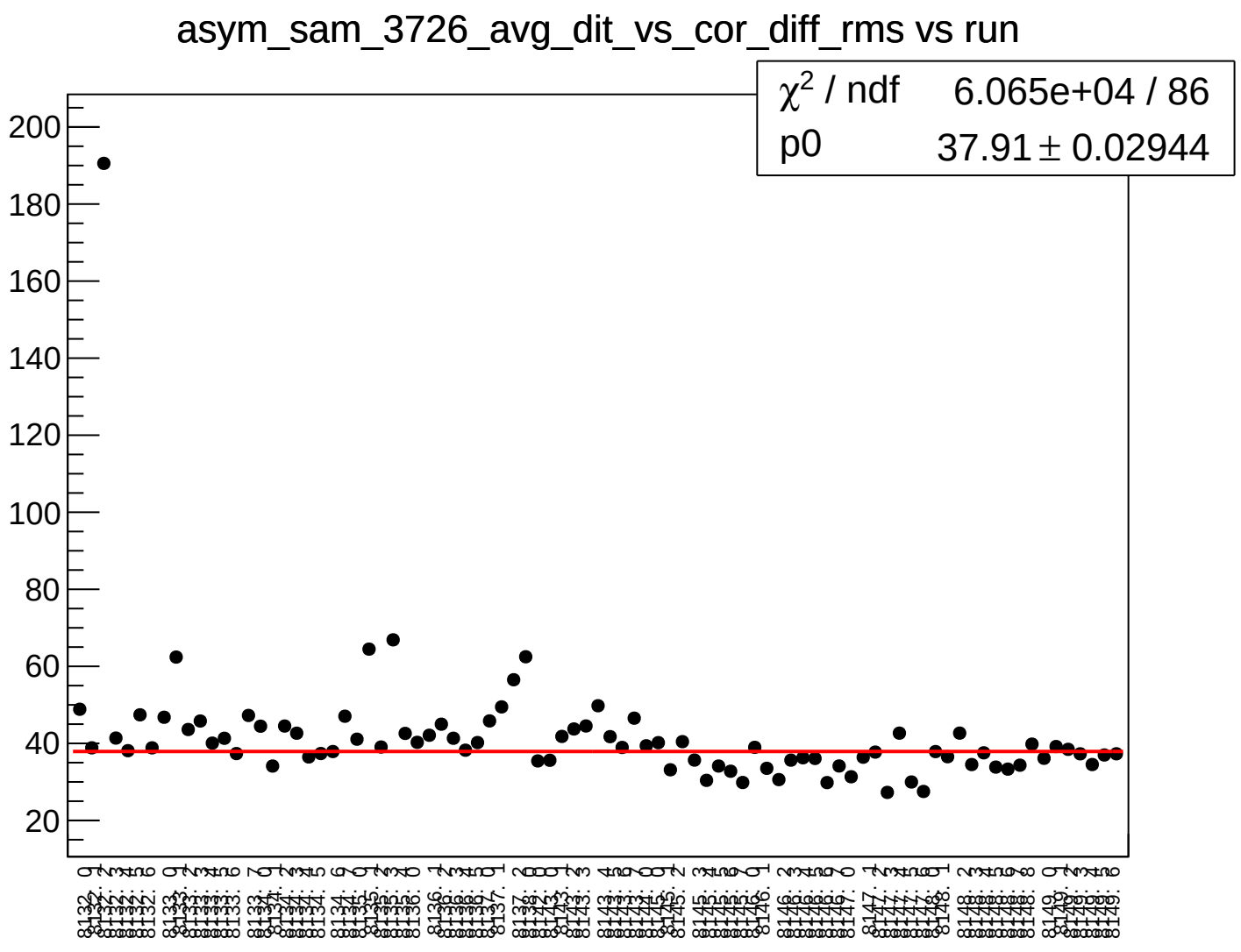

asym_sam_3726_avg_rms vs run
χ² / ndf 1.222e+04 / 86
p0 1626 ± 1.245
2600
2400
2200
2000
1800
1600
1400

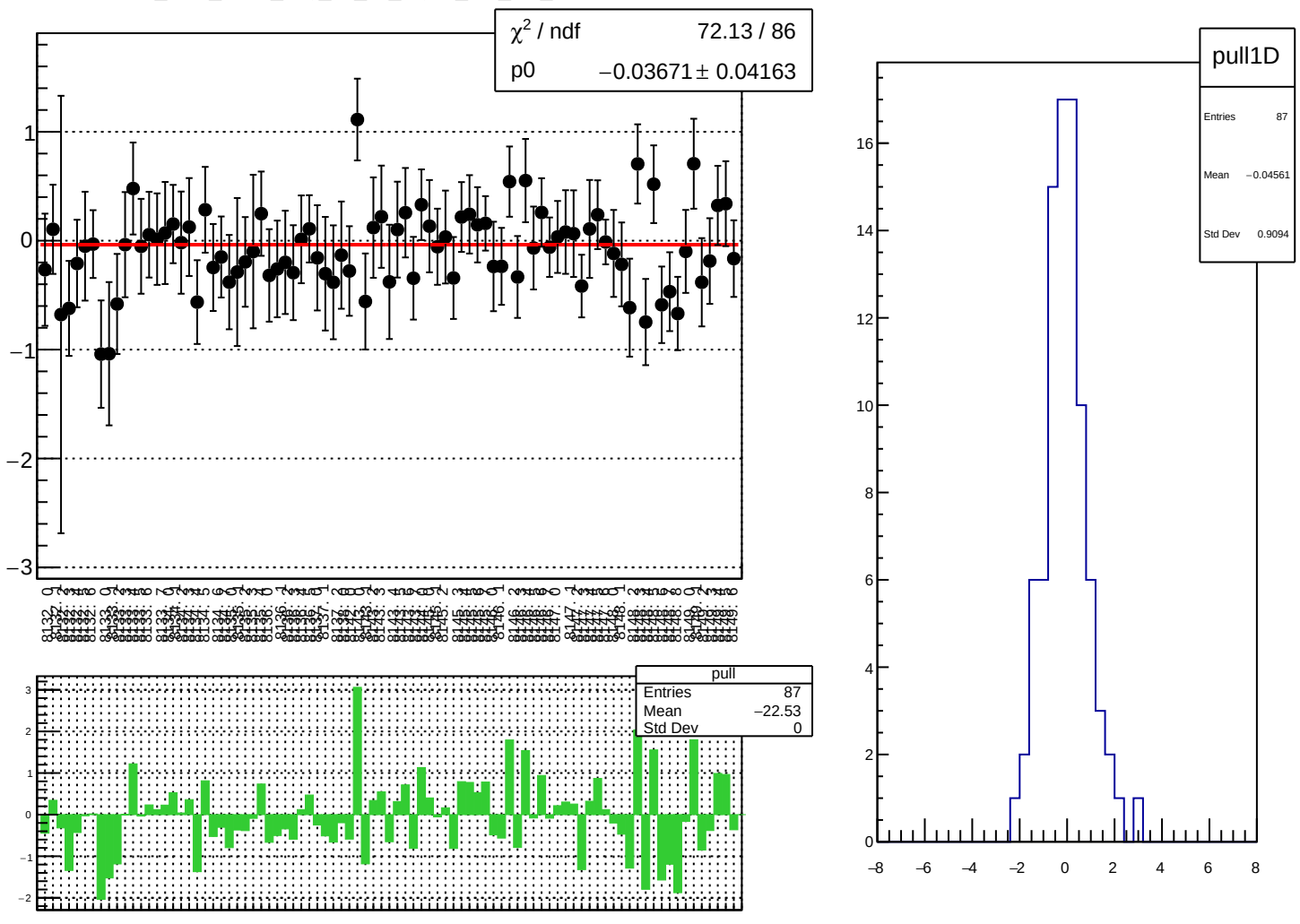

asym_sam_3726_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 98.13 / 86
p0 −2.506e−13 ± 1.042e−13
0.002
0.001
0
−0.001
−0.002
−0.003
−0.004
pull
Entries 87
Mean −24.4
Std Dev 0
2
1
0
−1
−2
−3

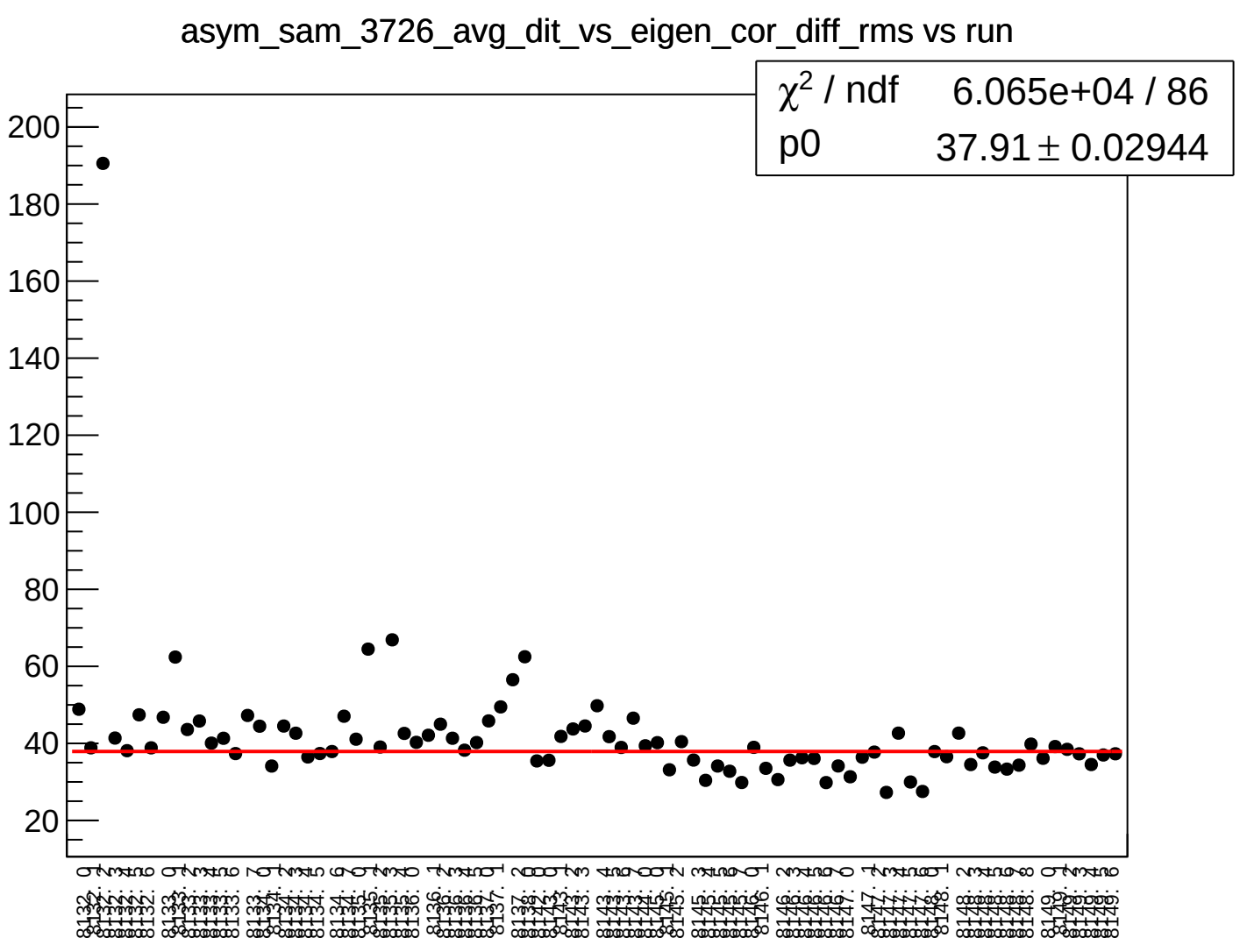

pull1D
Entries 87
Mean 0.06302
Std Dev 1.06
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

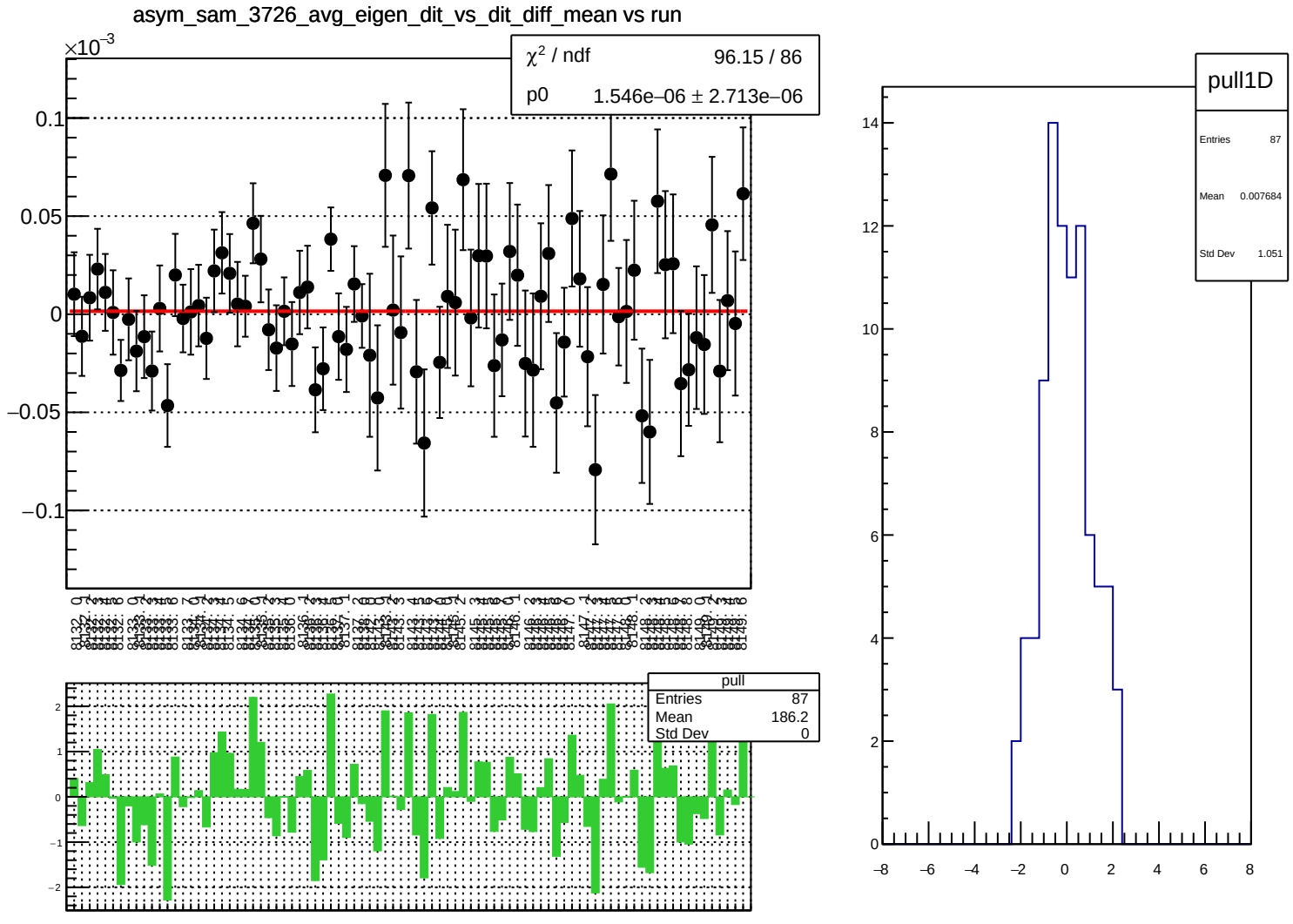

asym_sam_3726_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.103e+06 / 86
p0 5.782e−11 ± 7.369e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

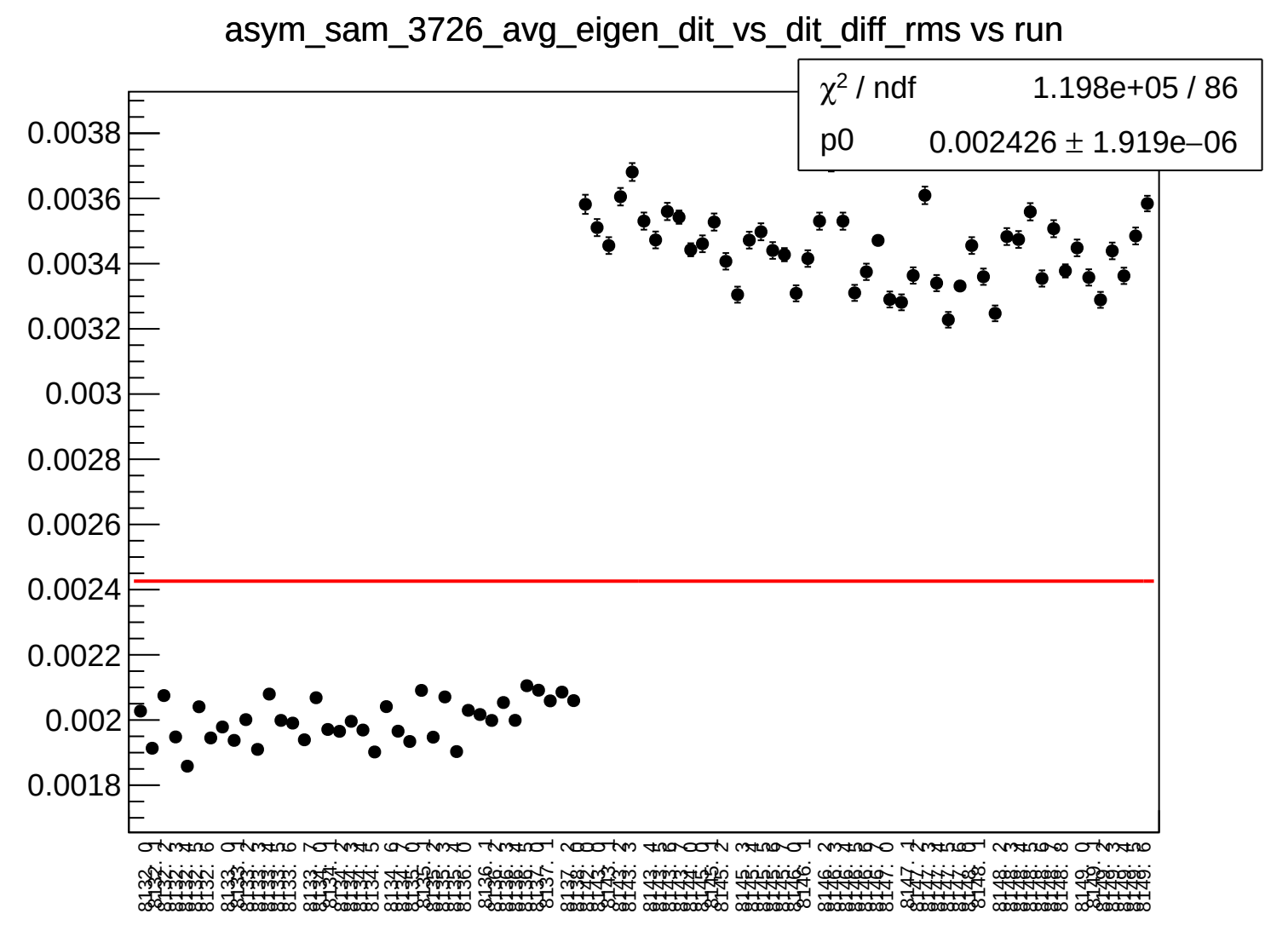

asym_sam_3726_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 72.13 / 86
p0 −0.03671 ± 0.04163
pull
Entries 87
Mean −22.53
Std Dev 0
pull1D
Entries 87
Mean −0.04561
Std Dev 0.9094

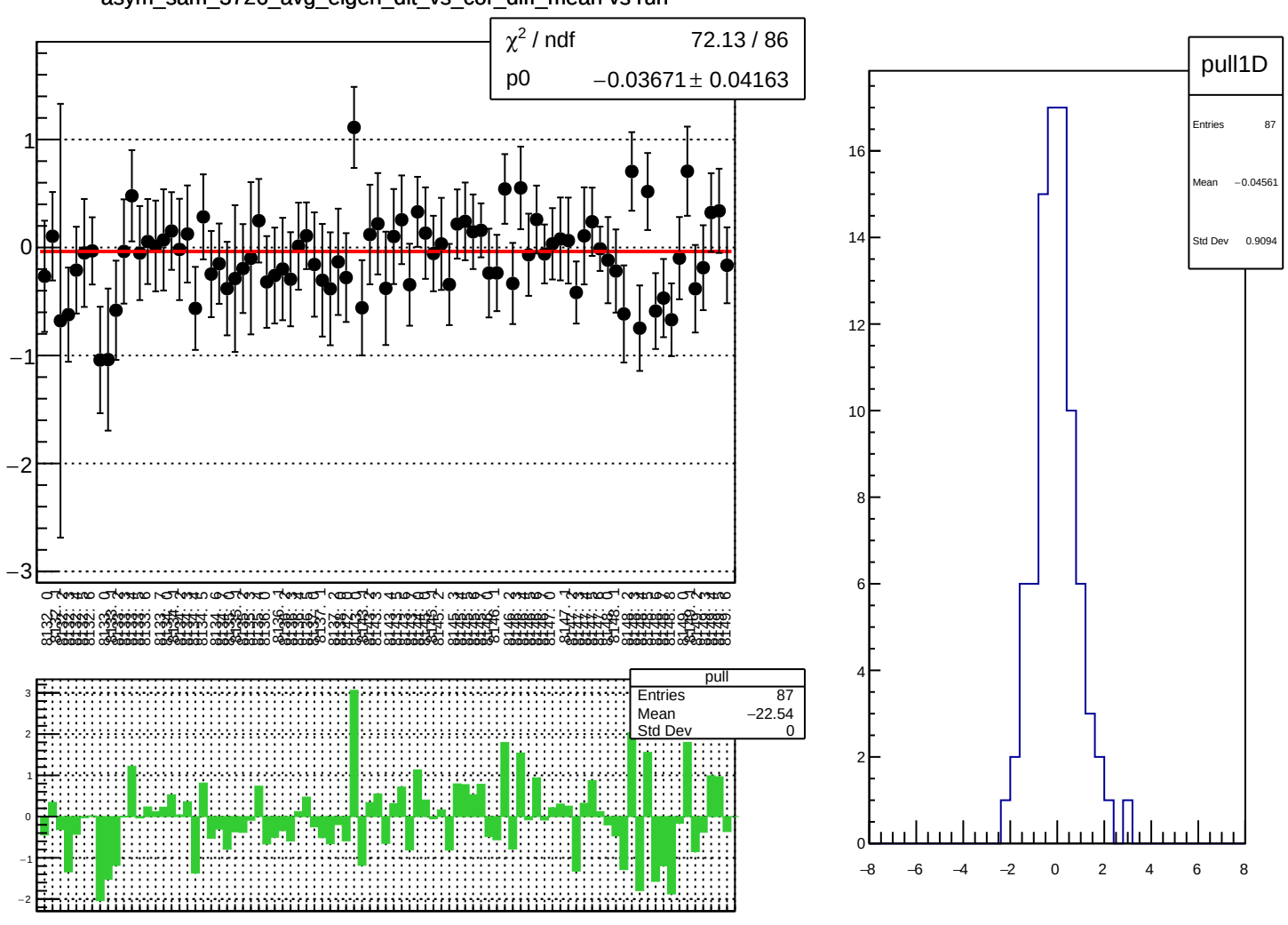

asym_sam_3726_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 6.065e+04 / 86
p0 37.91 ± 0.02944
200
180
160
140
120
100
80
60
40
20

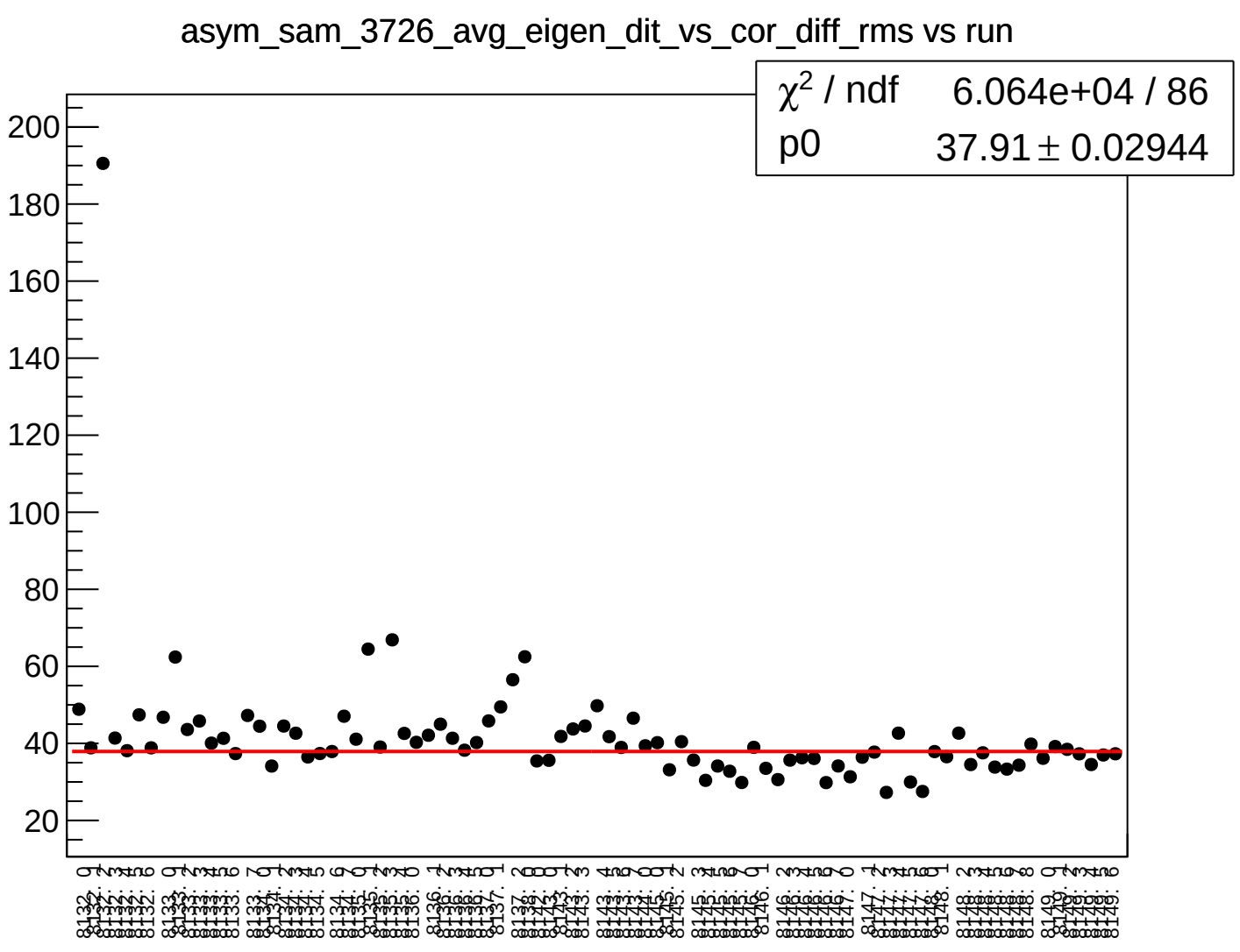

asym_sam_3726_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.13 / 86
p0 −0.03671 ± 0.04163
pull
Entries 87
Mean −22.53
Std Dev 0
pull1D
Entries 87
Mean −0.04561
Std Dev 0.9094


asym_sam_3726_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.065e+04 / 86
p0 37.91 ± 0.02944
200
180
160
140
120
100
80
60
40
20

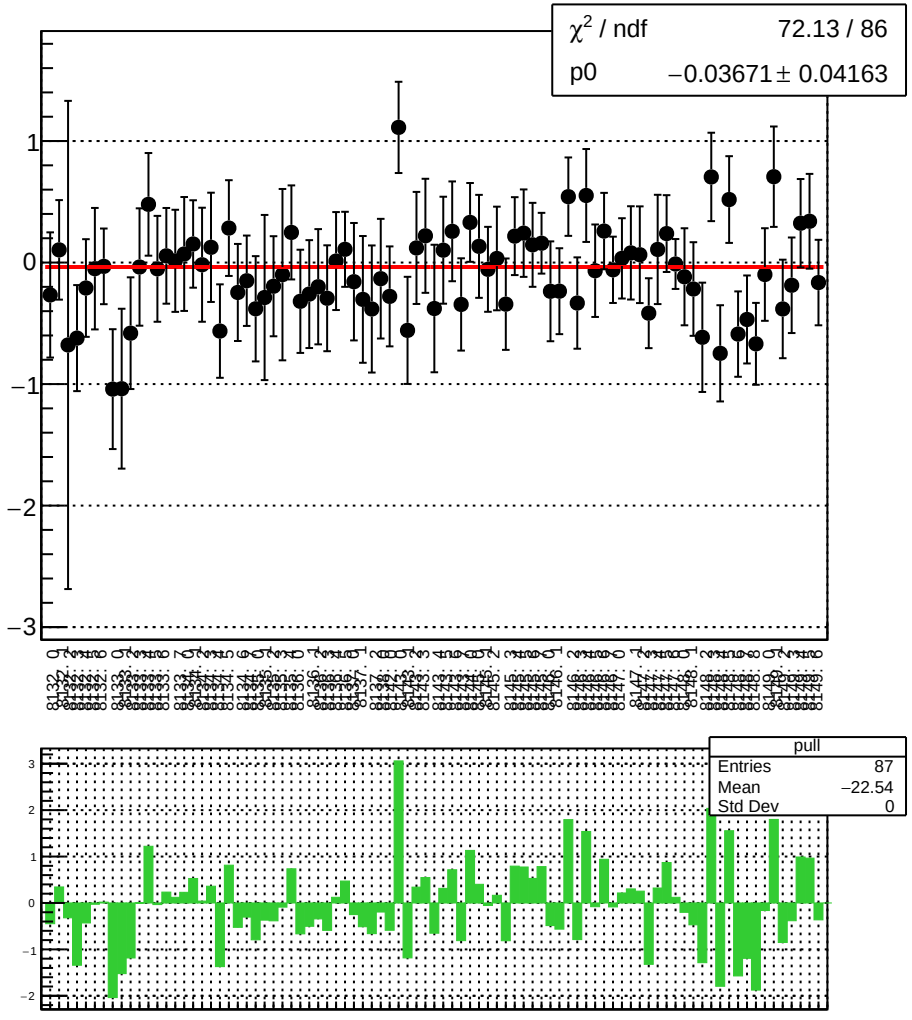

asym_sam_3726_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.15 / 86
p0 1.546e−06 ± 2.713e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 87
Mean 186.2
Std Dev 0
pull1D
Entries 87
Mean 0.007684
Std Dev 1.051

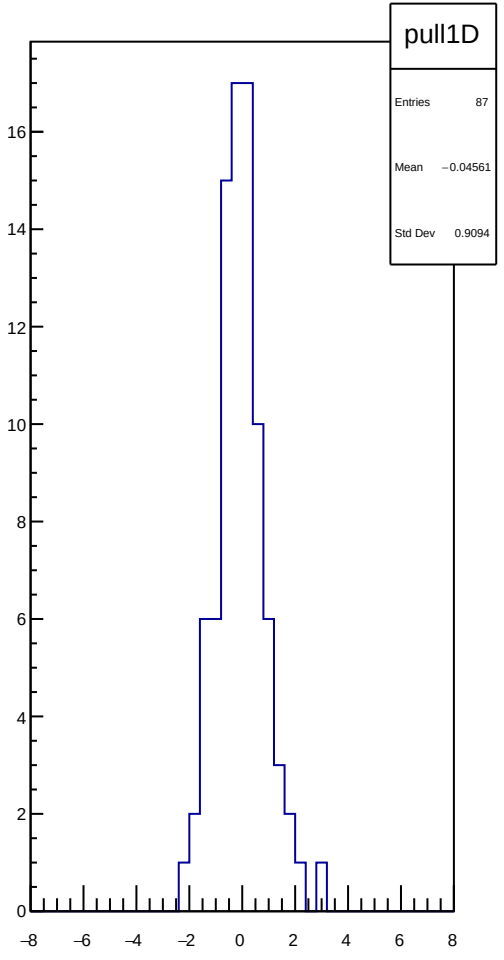

asym_sam_3726_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.198e+05 / 86
p0 0.002426 ± 1.919e−06
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018

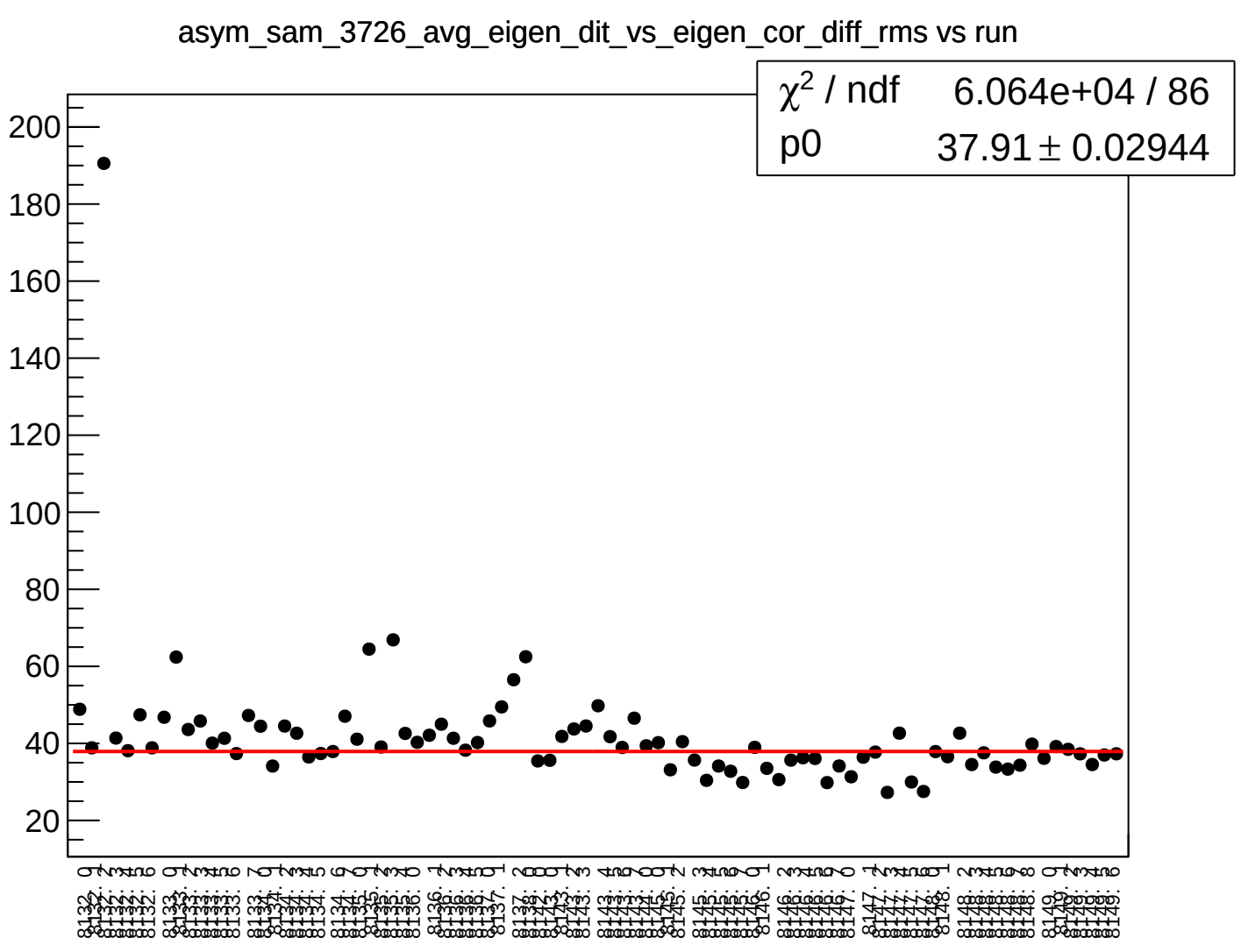

asym_sam_3726_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 72.13 / 86
p0 −0.03671 ± 0.04163
pull
Entries 87
Mean −22.54
Std Dev 0
pull1D
Entries 87
Mean −0.04561
Std Dev 0.9094

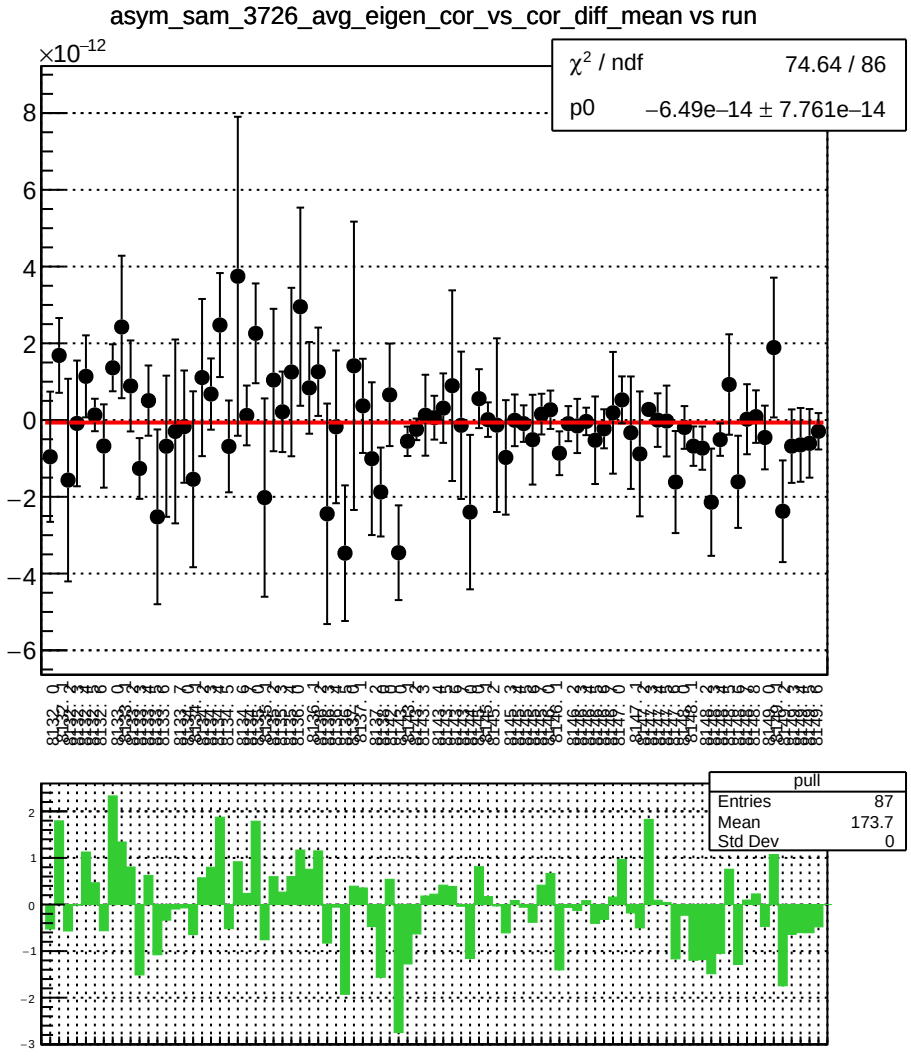

asym_sam_3726_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 6.064e+04 / 86
p0 37.91 ± 0.02944
200
180
160
140
120
100
80
60
40
20

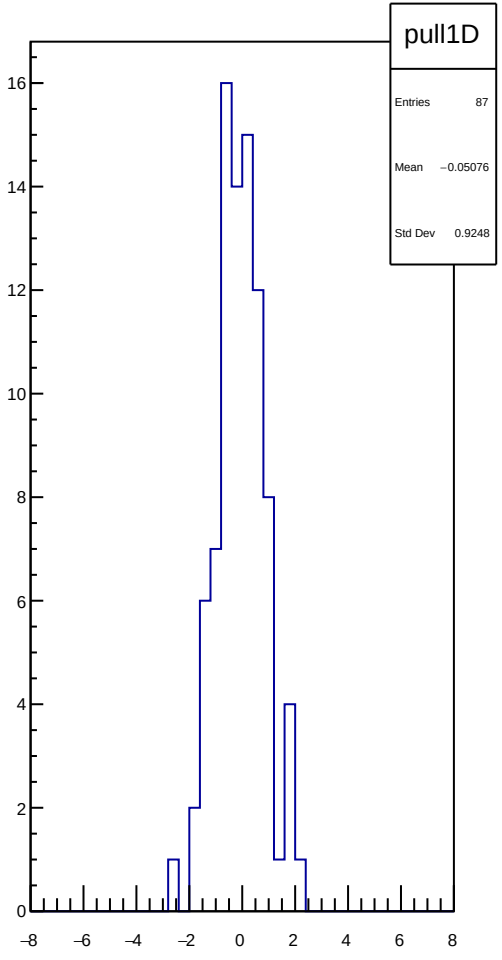
asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_mean vs run

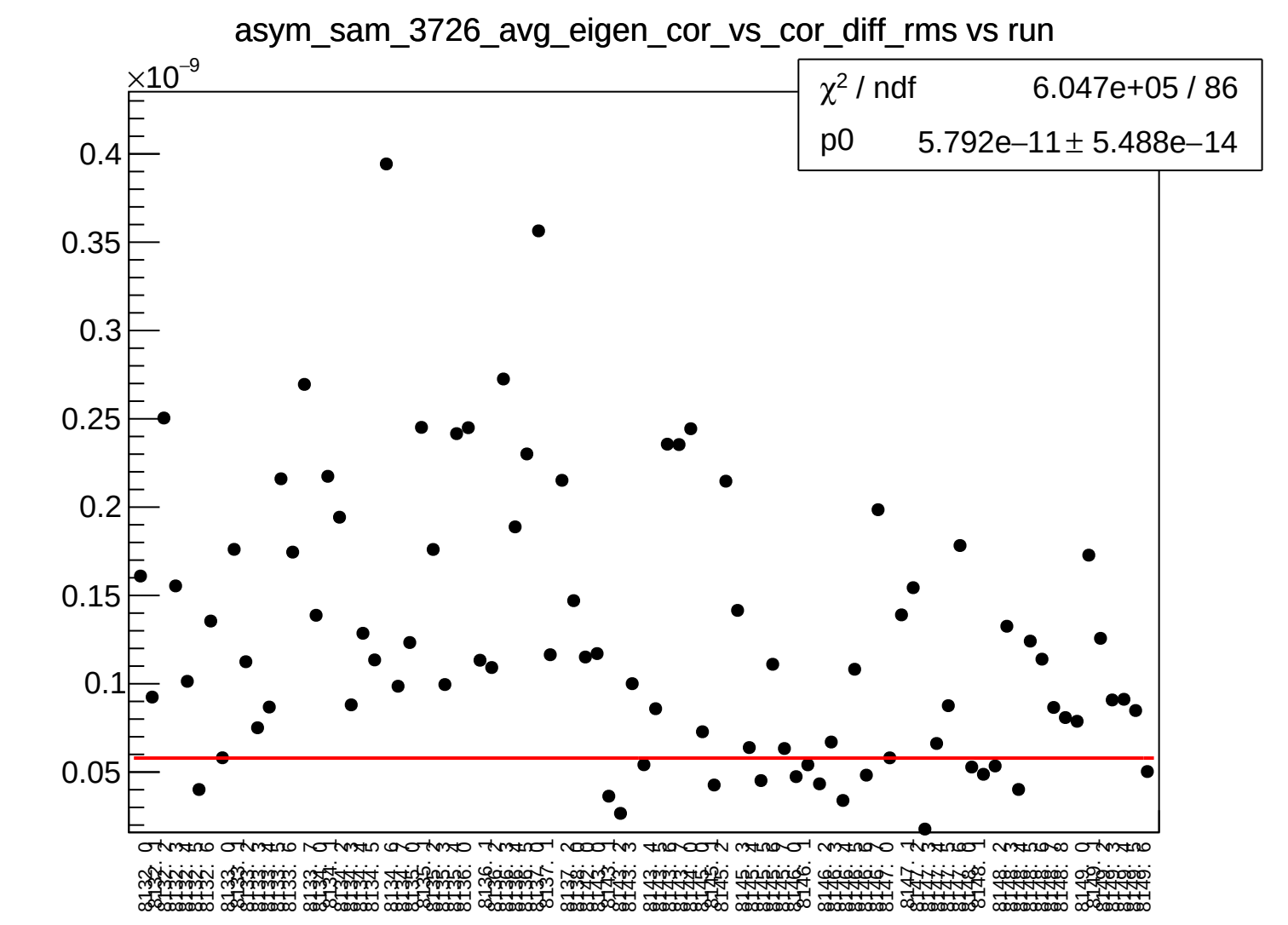


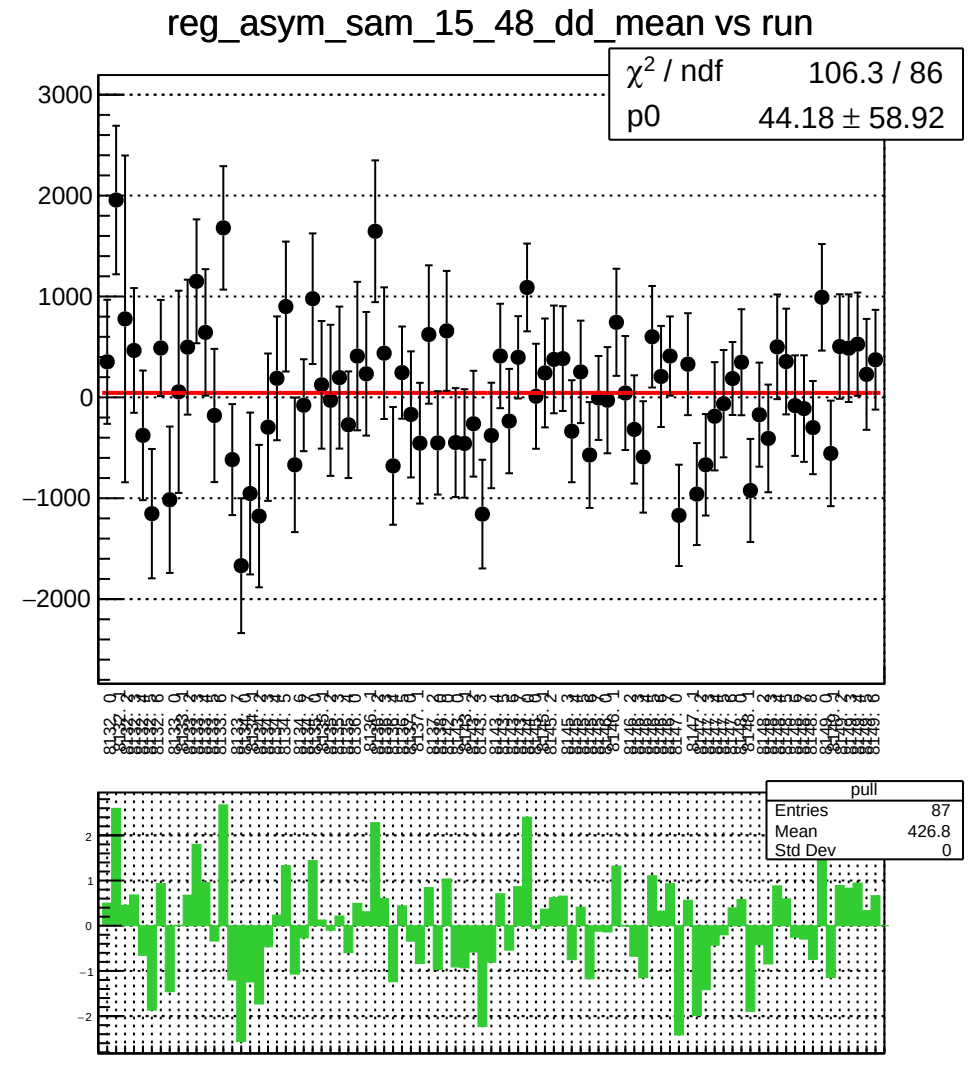


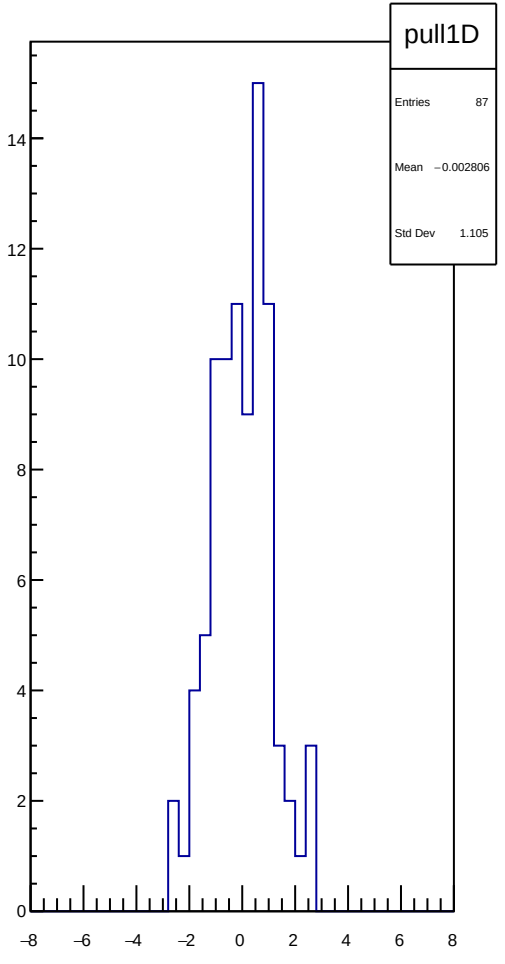

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.064e+04 / 86
p0 37.91 ± 0.02944
200
180
160
140
120
100
80
60
40
20

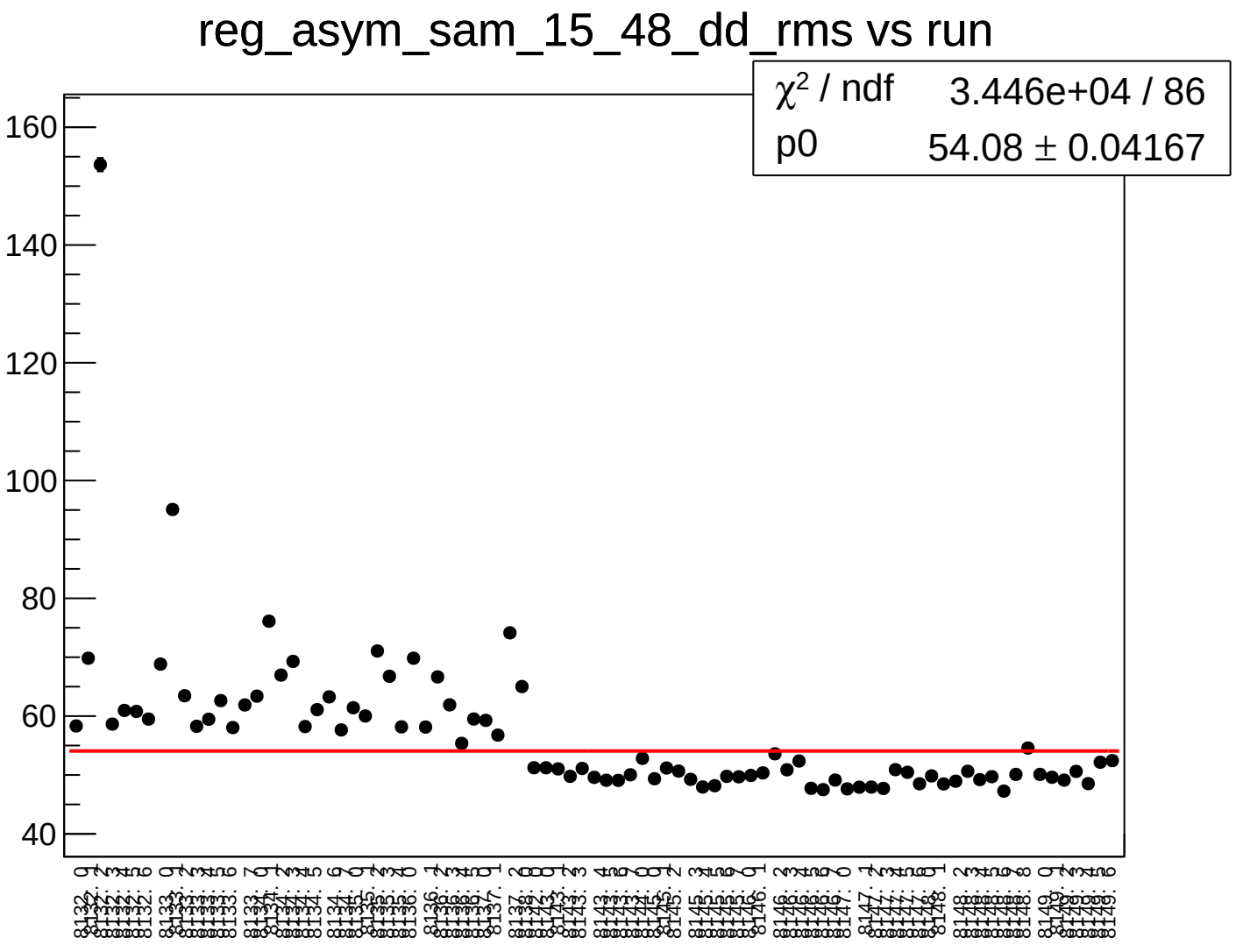

asym_sam_3726_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.64 / 86
p0 −6.49e−14 ± 7.761e−14
pull
Entries 87
Mean 173.7
Std Dev 0

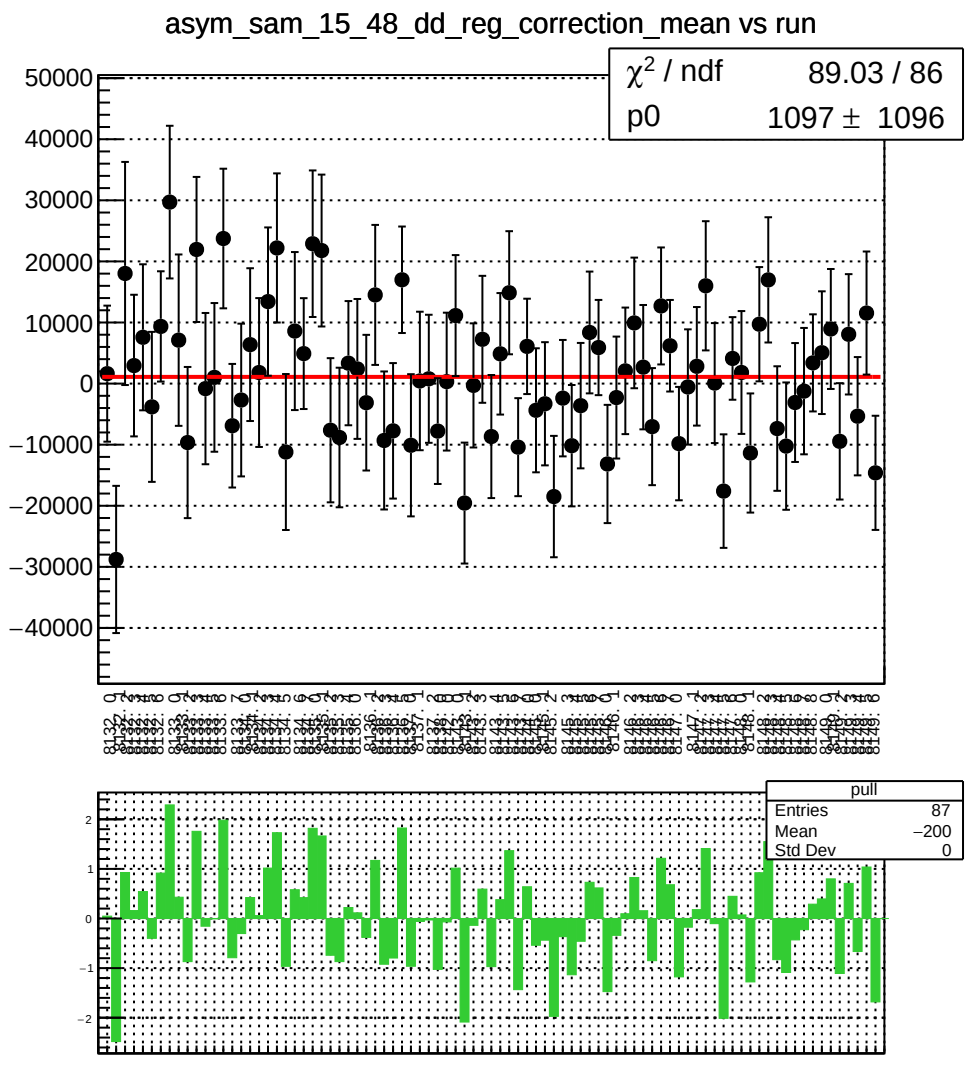

pull1D
Entries 87
Mean −0.05076
Std Dev 0.9248

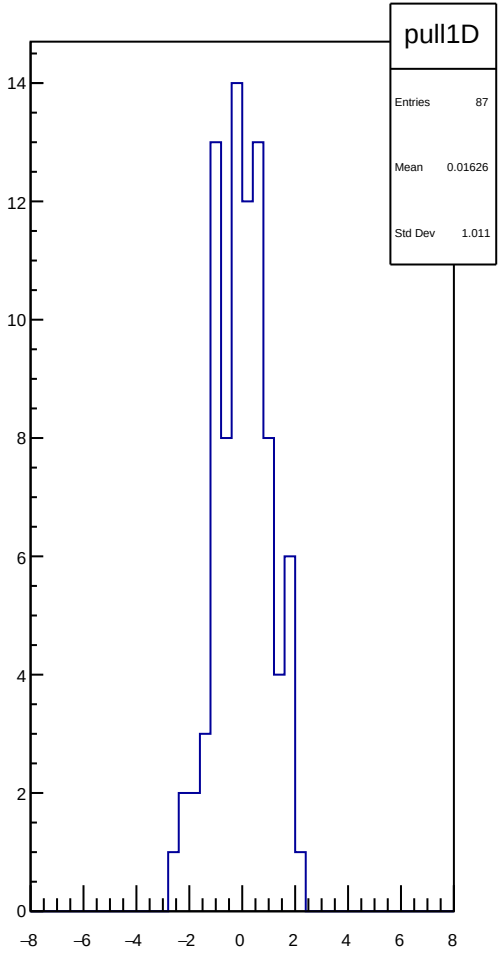

asym_sam_3726_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.047e+05 / 86
p0 5.792e−11 ± 5.488e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

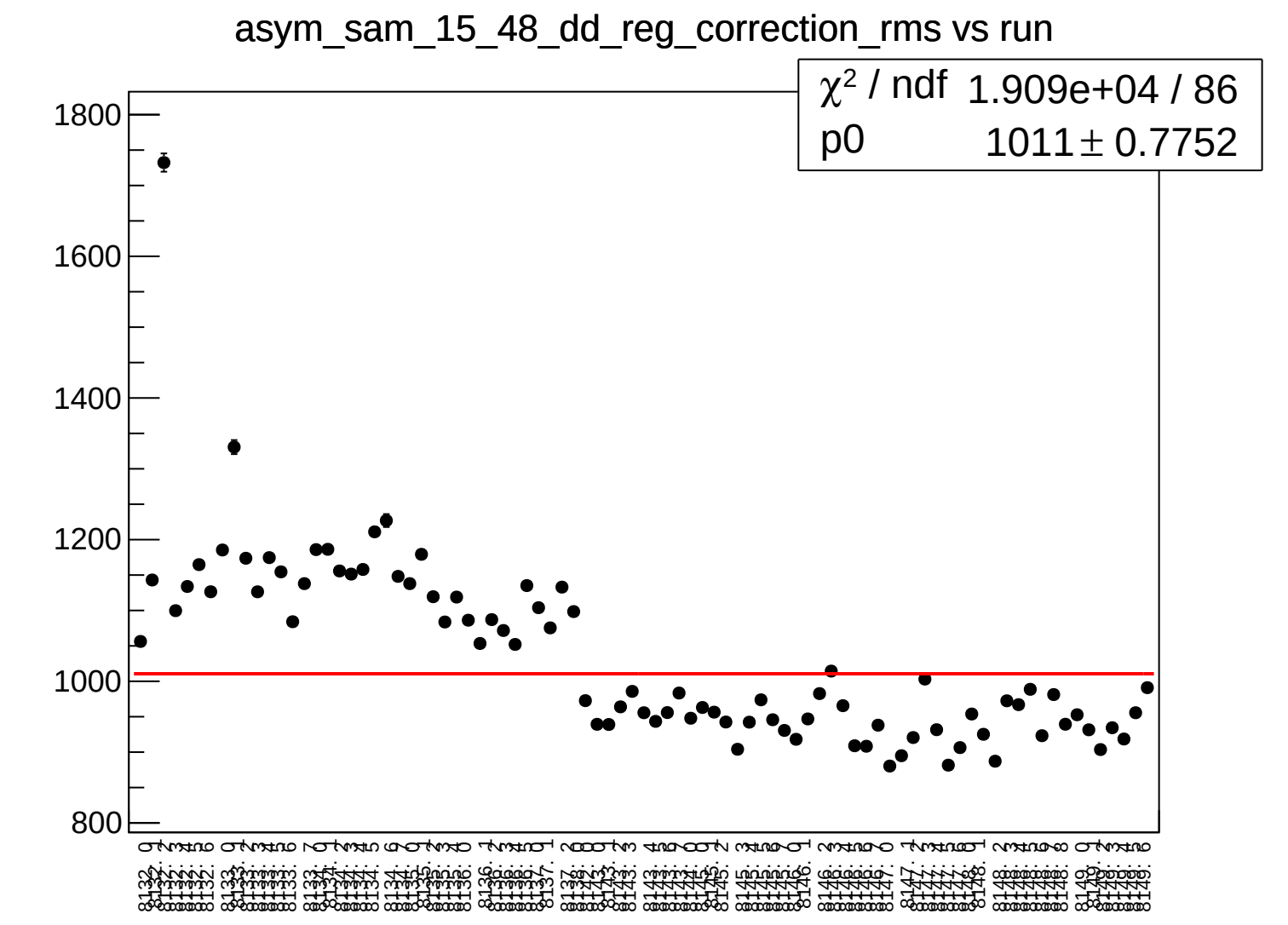

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 106.3 / 86
p0 44.18 ± 58.92
3000
2000
1000
0
−1000
−2000
pull
Entries 87
Mean 426.8
Std Dev 0
2
1
0
−1
−2

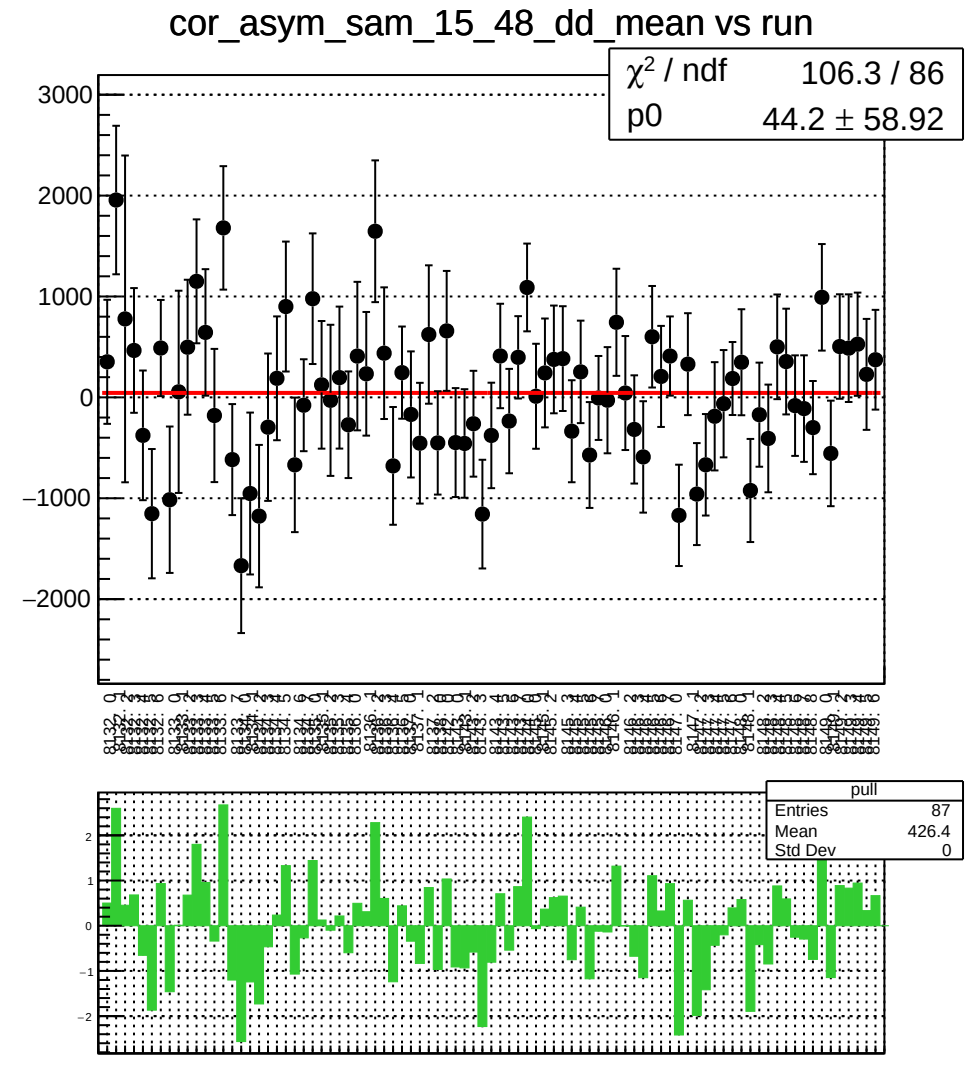

pull1D
Entries 87
Mean −0.002806
Std Dev 1.105
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

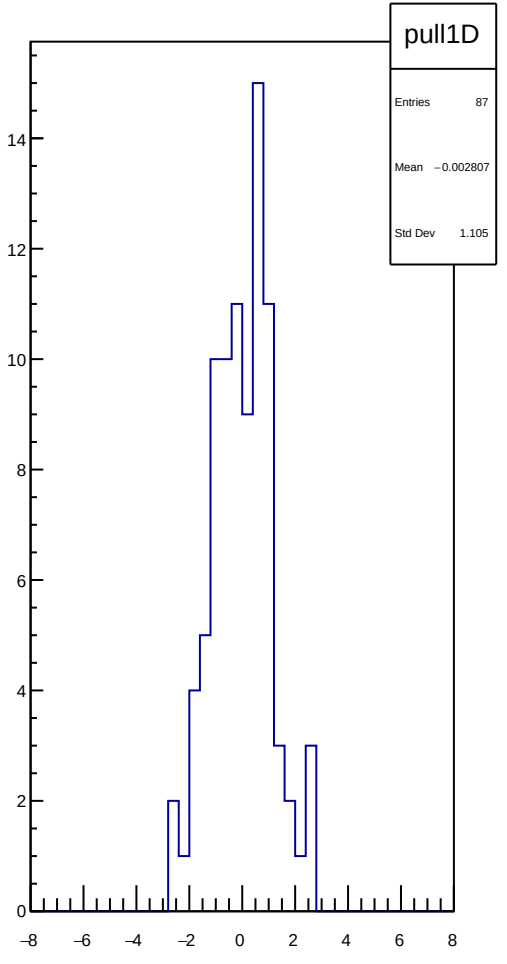

reg_asym_sam_15_48_dd_rms vs run
χ² / ndf 3.446e+04 / 86
p0 54.08 ± 0.04167
160
140
120
100
80
60
40


asym_sam_15_48_dd_reg_correction_mean vs run
χ² / ndf 89.03 / 86
p0 1097 ± 1096
pull
Entries 87
Mean −200
Std Dev 0

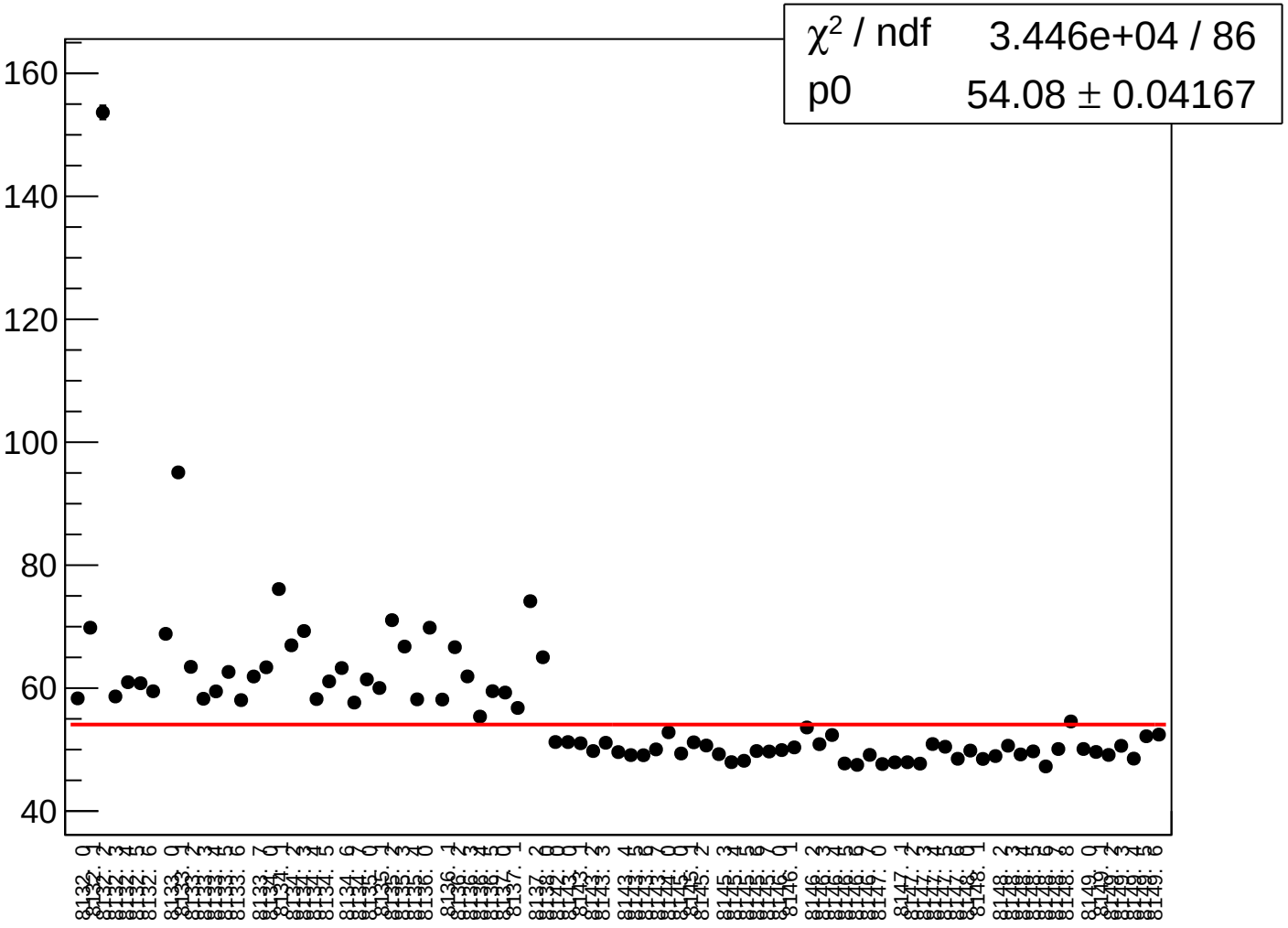

pull1D
Entries 87
Mean 0.01626
Std Dev 1.011

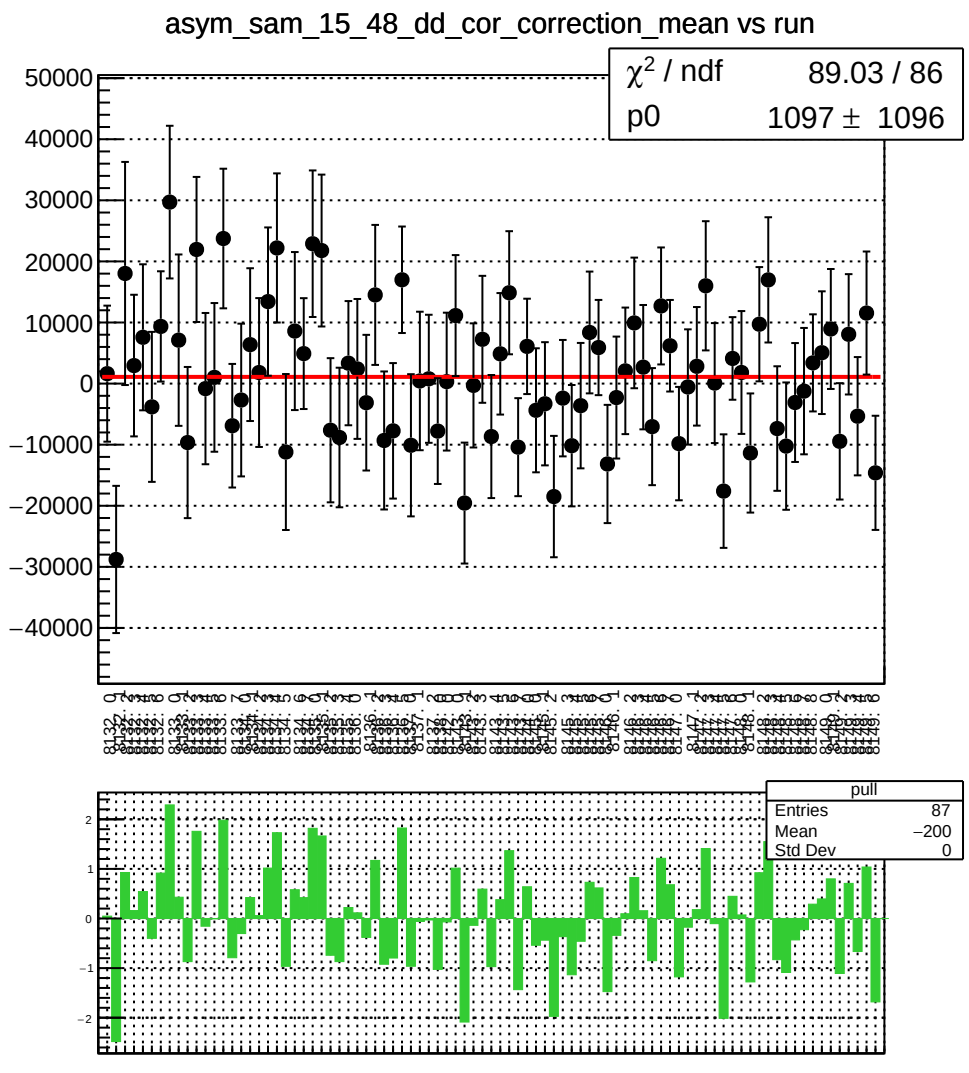

asym_sam_15_48_dd_reg_correction_rms vs run
χ² / ndf 1.909e+04 / 86
p0 1011 ± 0.7752
1800
1600
1400
1200
1000
800

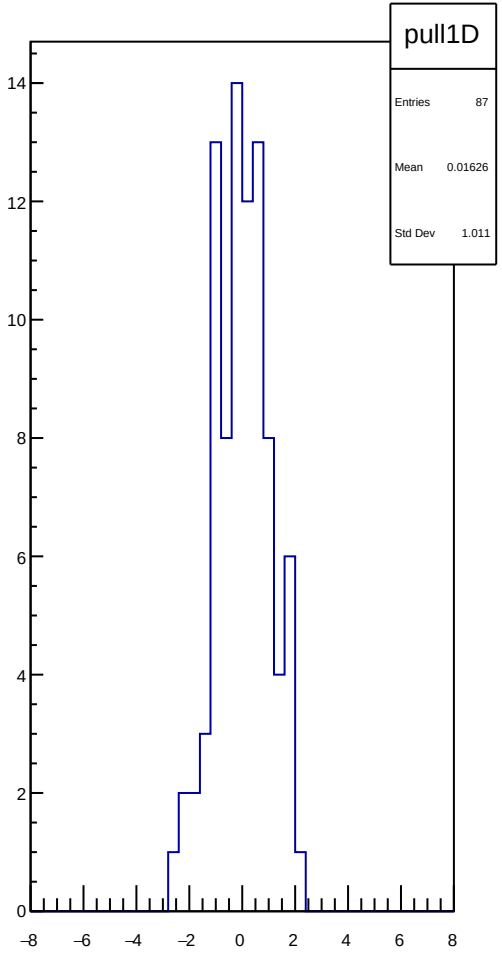

cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 106.3 / 86
p0 44.2 ± 58.92
3000
2000
1000
0
−1000
−2000
pull
Entries 87
Mean 426.4
Std Dev 0
2
1
0
−1
−2

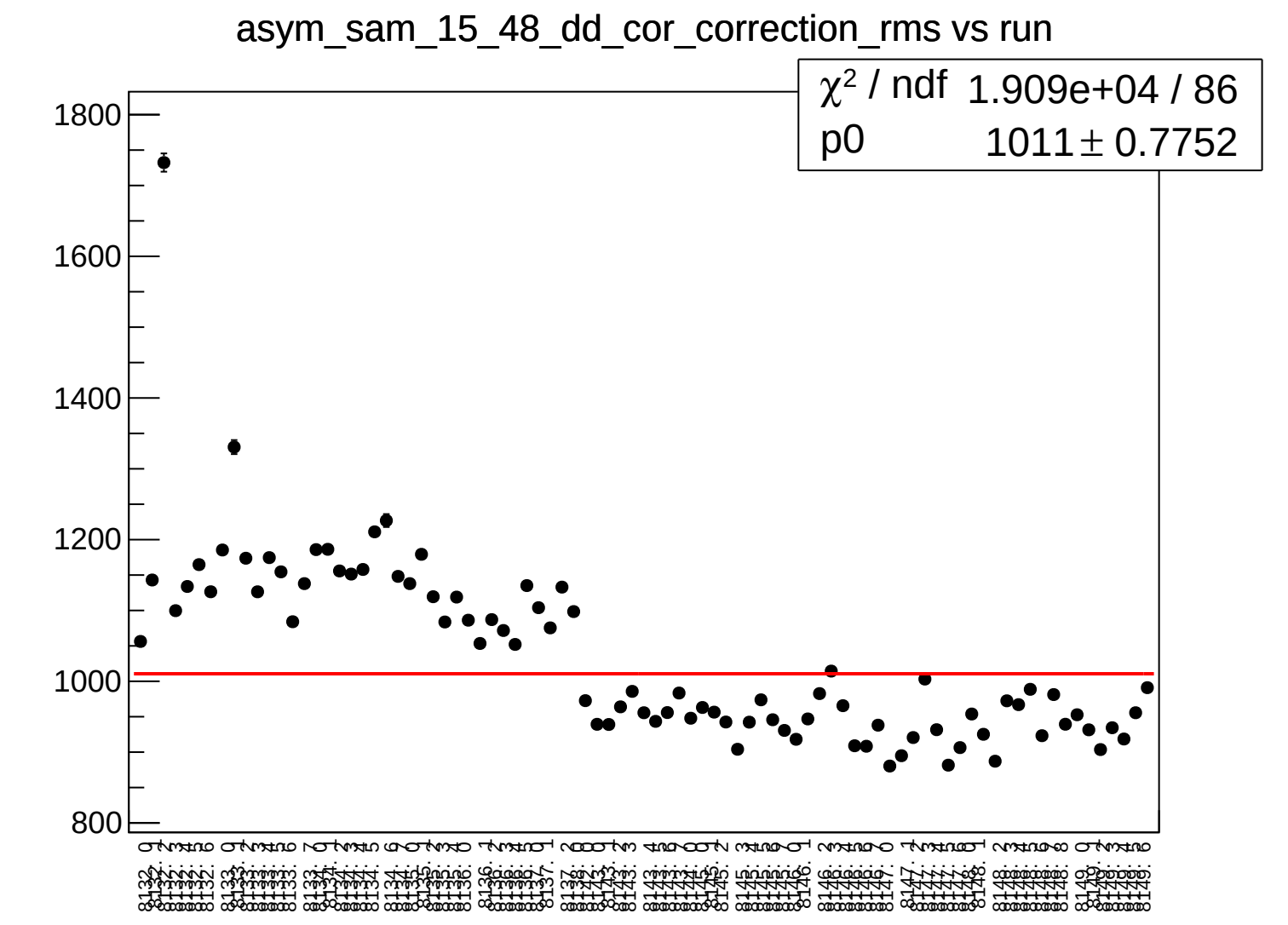

pull1D
Entries 87
Mean −0.002807
Std Dev 1.105
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

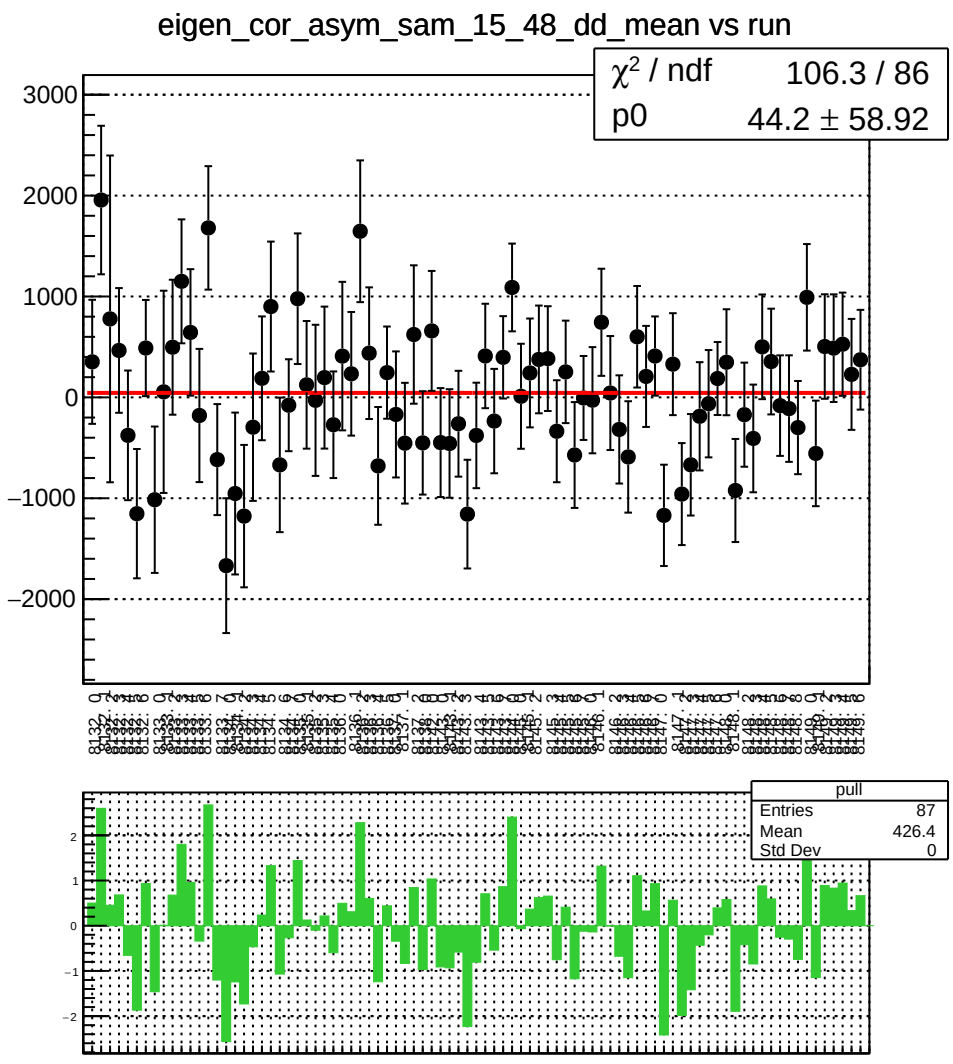
cor_asym_sam_15_48_dd_rms vs run

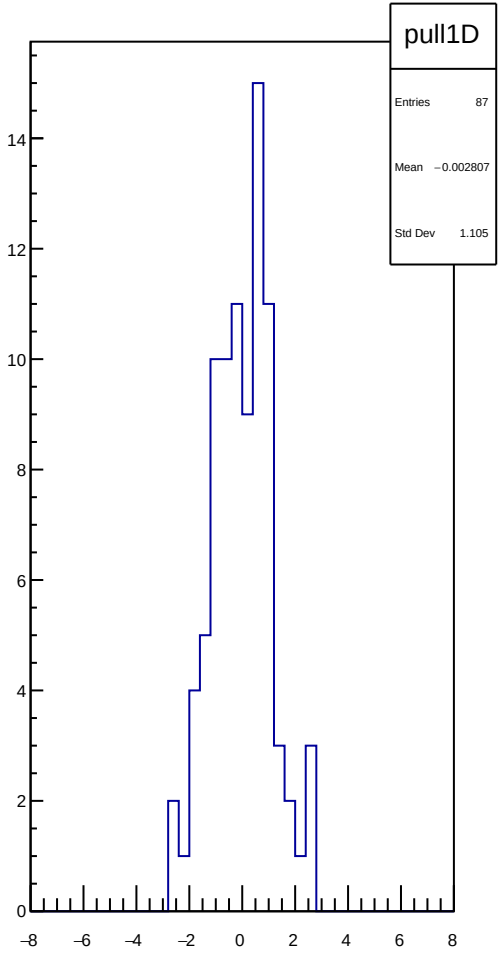


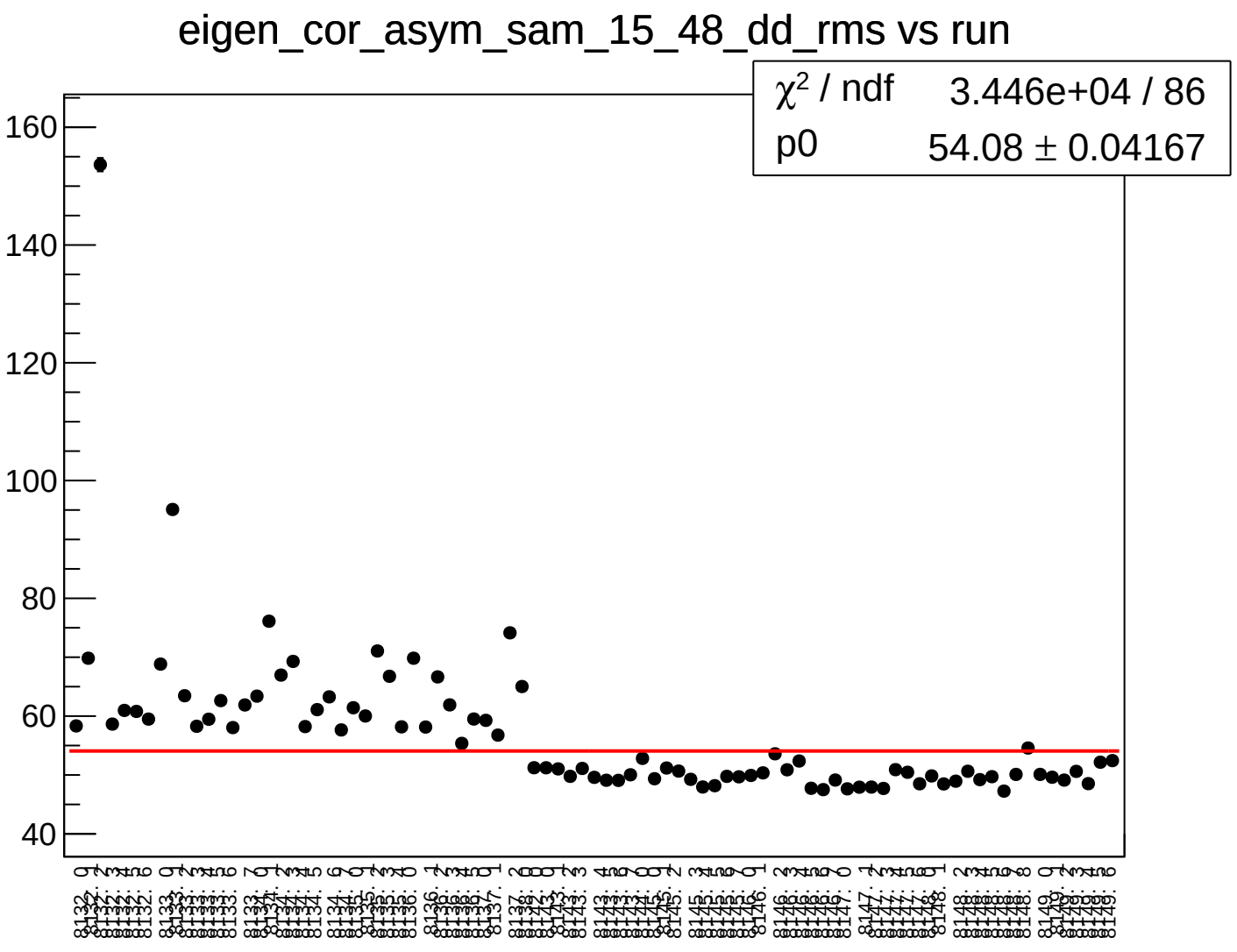

asym_sam_15_48_dd_cor_correction_mean vs run
χ² / ndf 89.03 / 86
p0 1097 ± 1096
pull
Entries 87
Mean −200
Std Dev 0

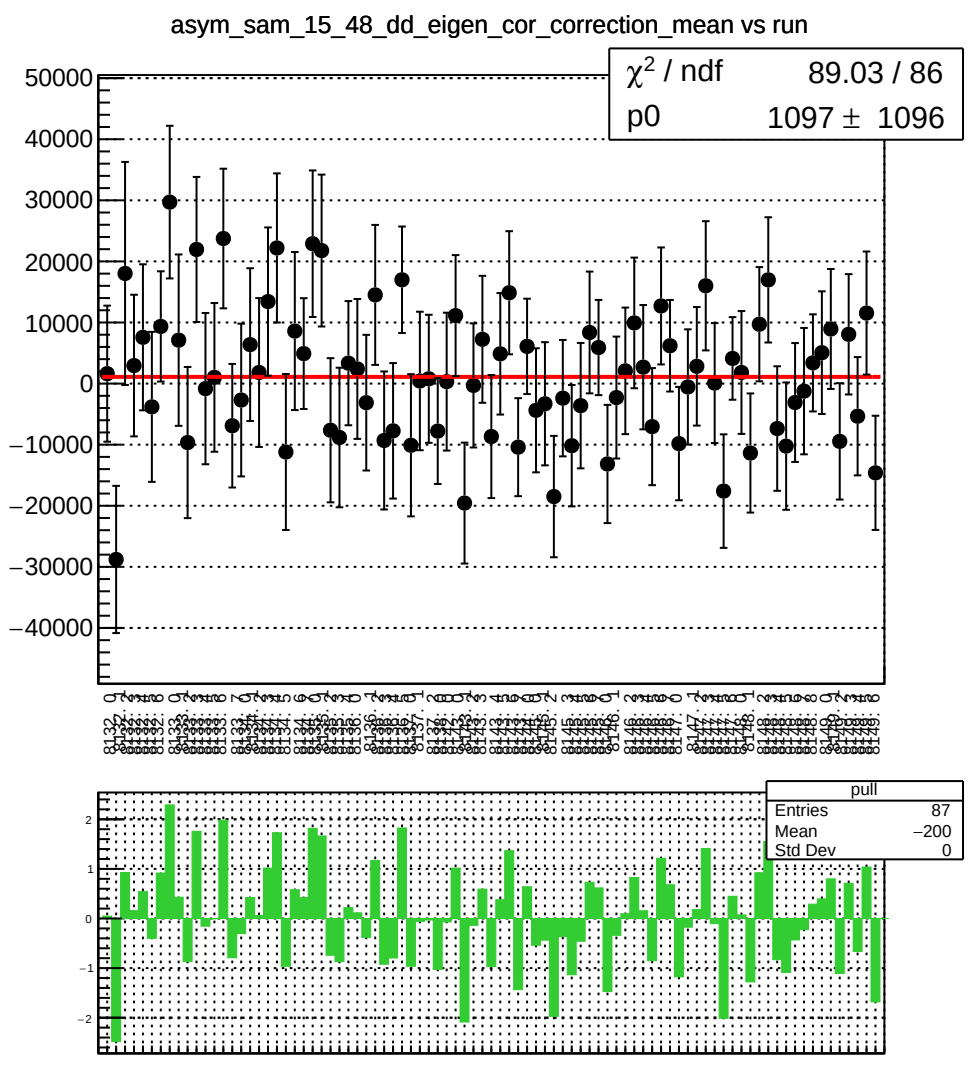

pull1D
Entries 87
Mean 0.01626
Std Dev 1.011

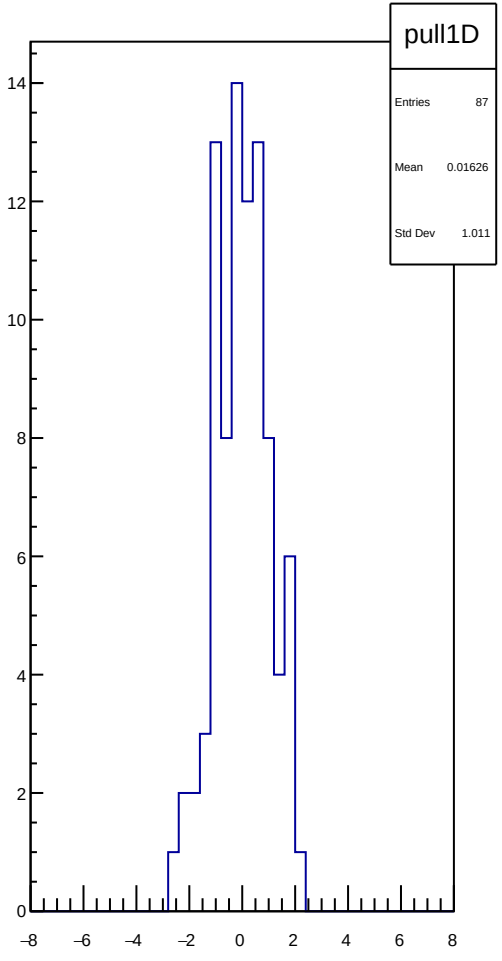

asym_sam_15_48_dd_cor_correction_rms vs run
χ² / ndf 1.909e+04 / 86
p0 1011 ± 0.7752
1800
1600
1400
1200
1000
800

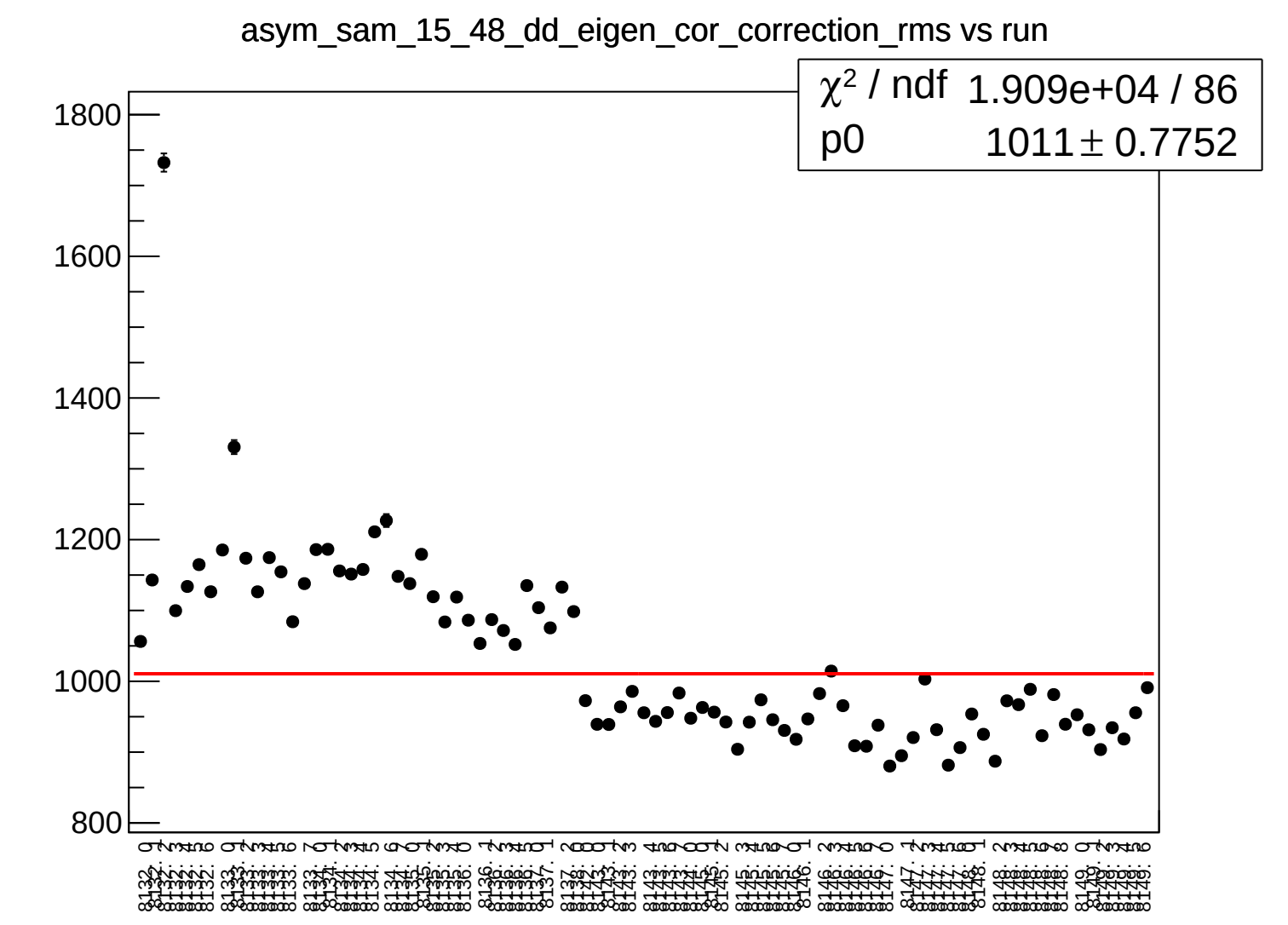

eigen_cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 106.3 / 86
p0 44.2 ± 58.92
3000
2000
1000
0
−1000
−2000
pull
Entries 87
Mean 426.4
Std Dev 0
2
1
0
−1
−2

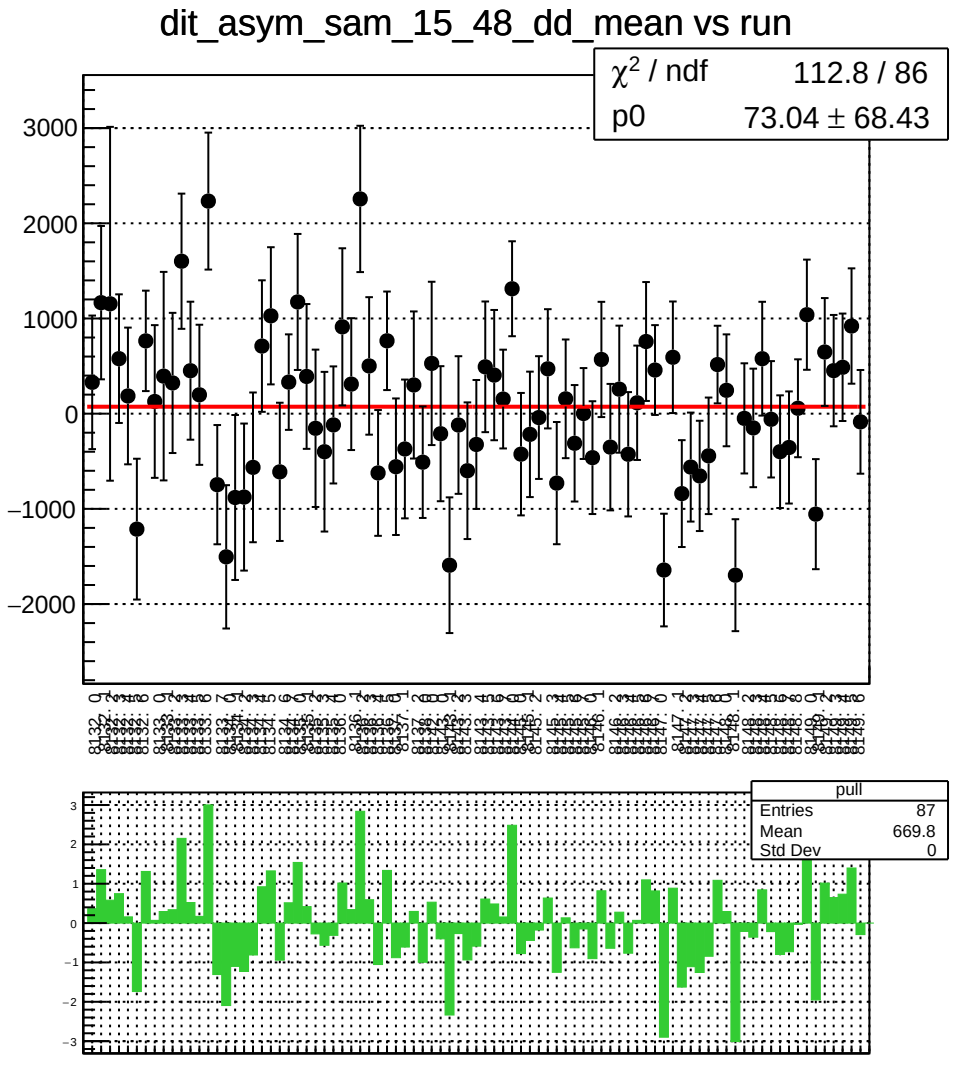

pull1D
Entries 87
Mean −0.002807
Std Dev 1.105
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

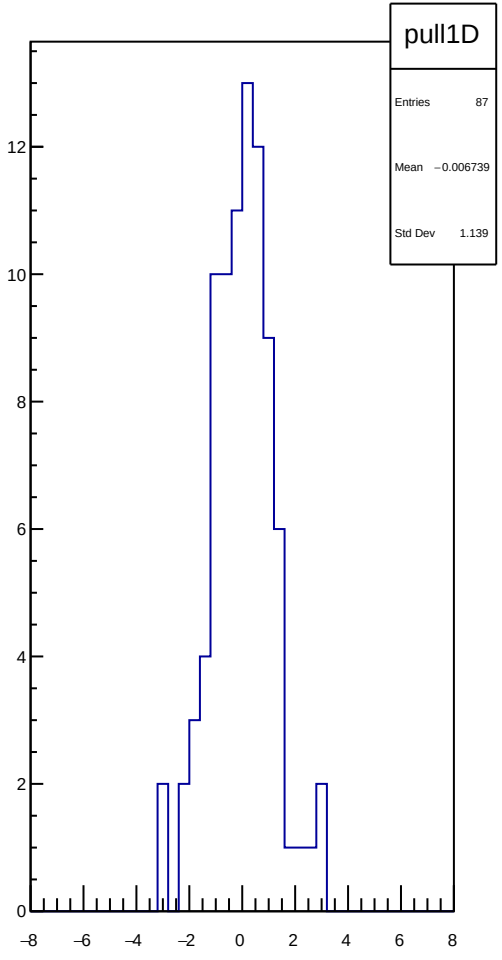

eigen_cor_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 3.446e+04 / 86
p0 54.08 ± 0.04167
160
140
120
100
80
60
40

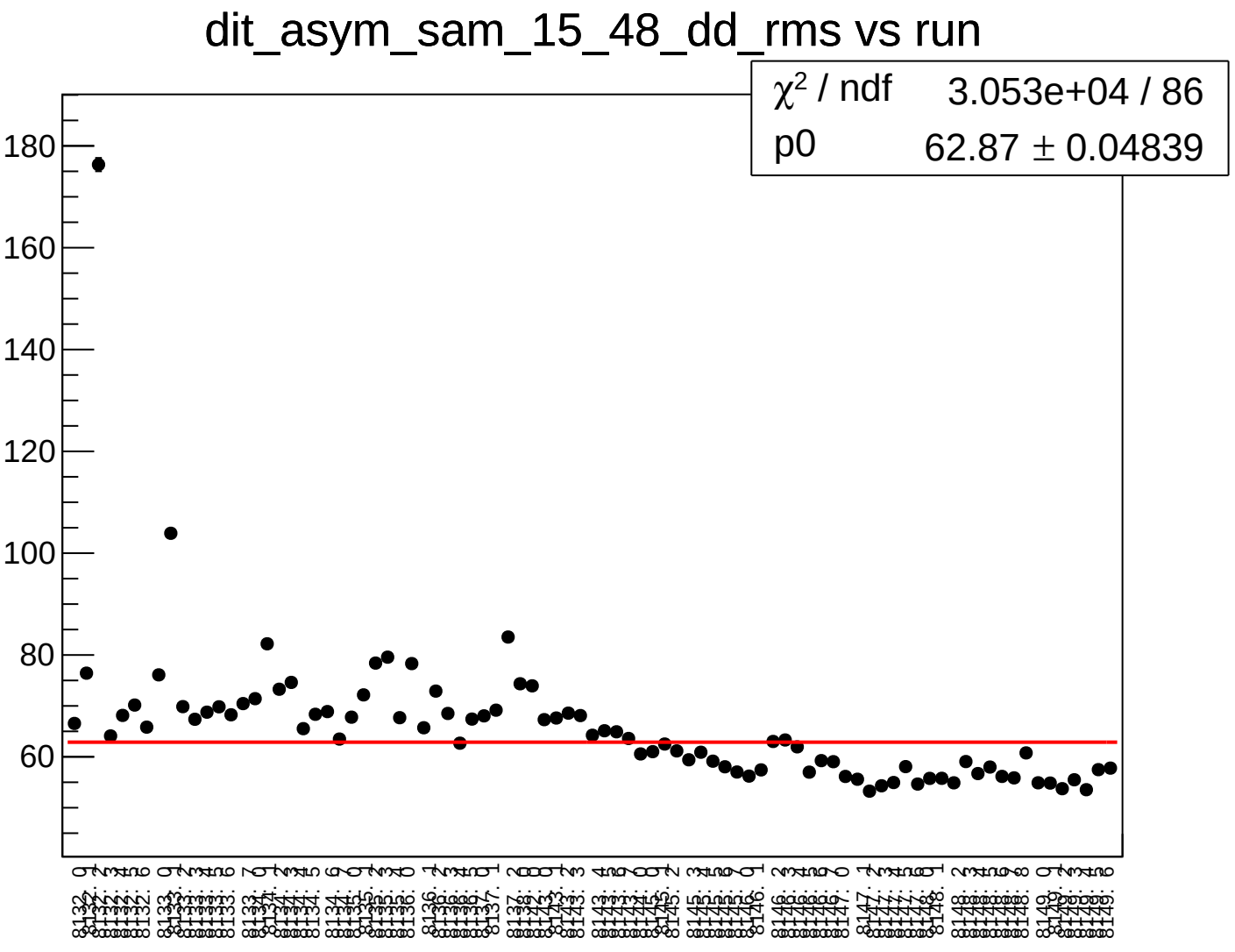

asym_sam_15_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 89.03 / 86
p0 1097 ± 1096
pull
Entries 87
Mean −200
Std Dev 0

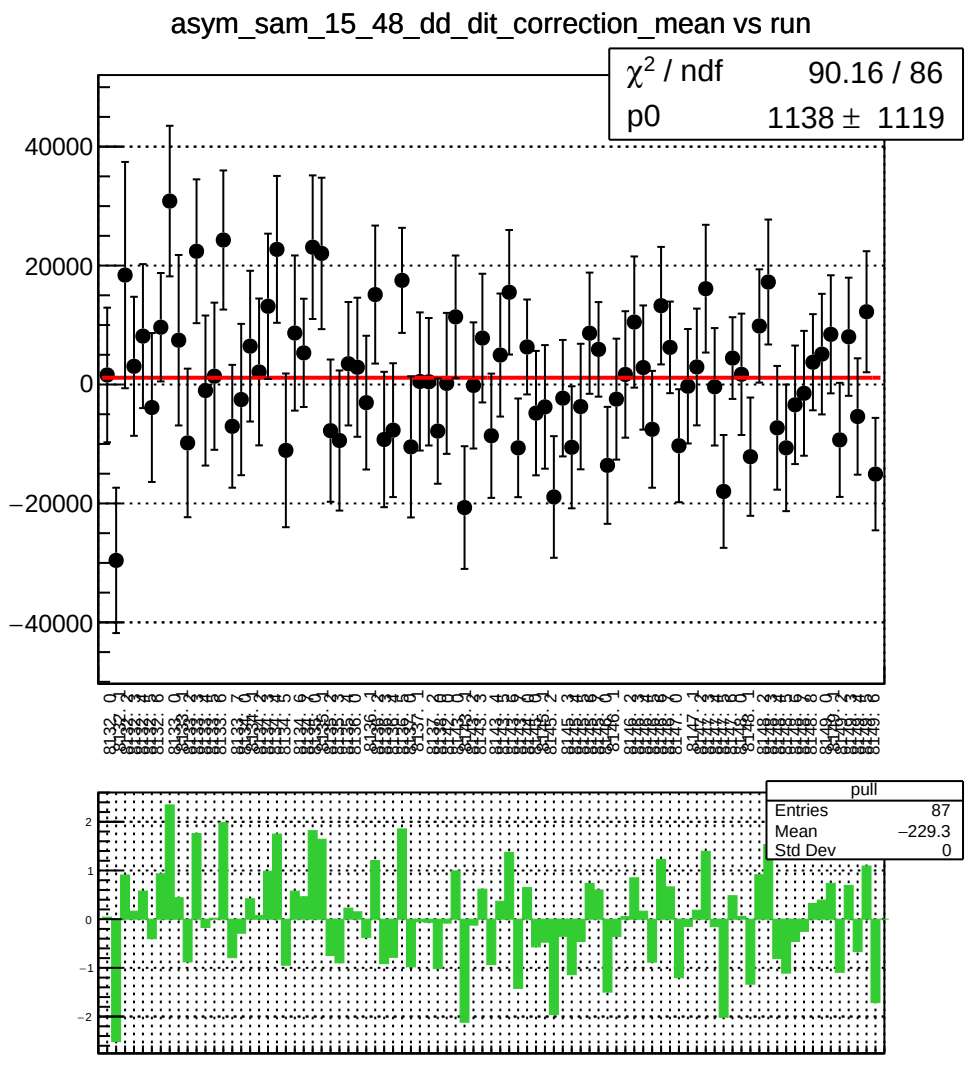

pull1D
Entries 87
Mean 0.01626
Std Dev 1.011

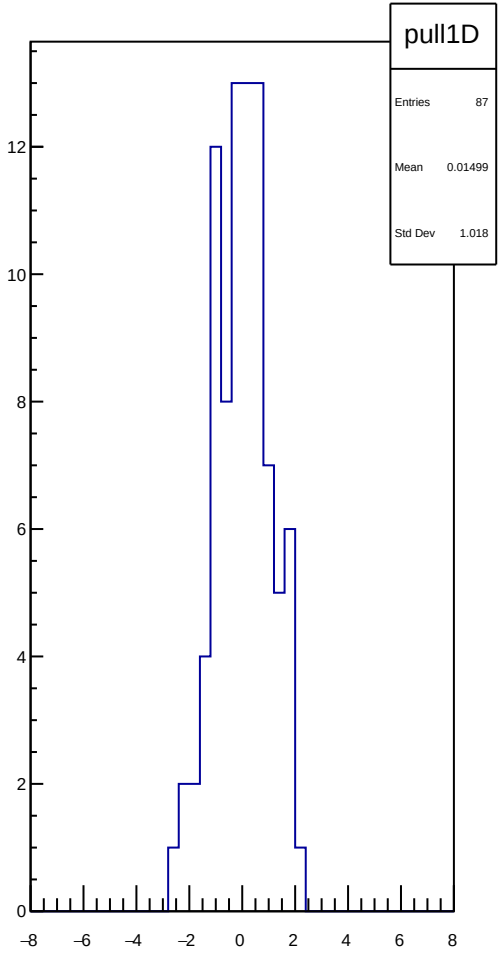

asym_sam_15_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.909e+04 / 86
p0 1011 ± 0.7752
1800
1600
1400
1200
1000
800

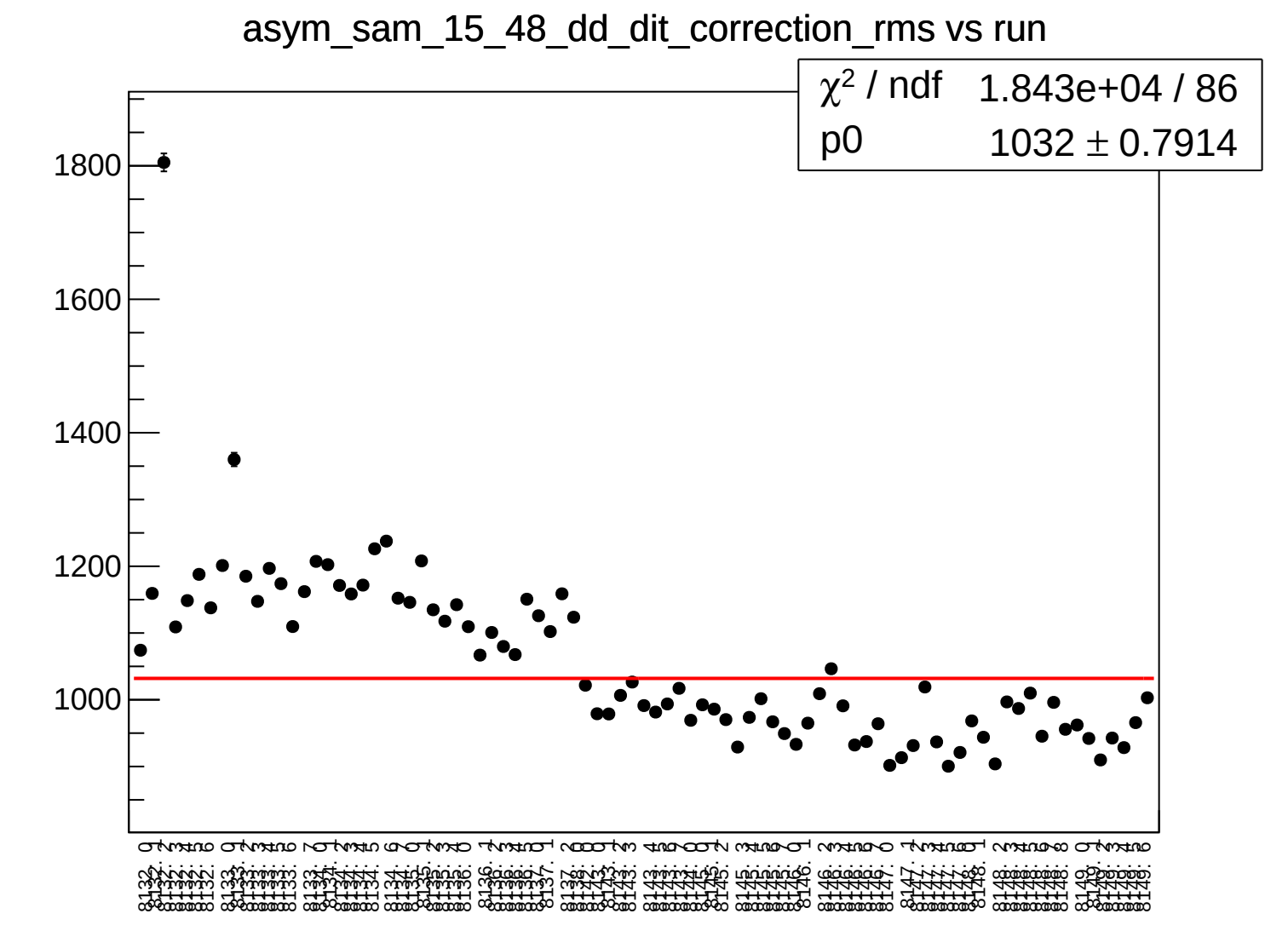

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 112.8 / 86
p0 73.04 ± 68.43
pull
Entries 87
Mean 669.8
Std Dev 0

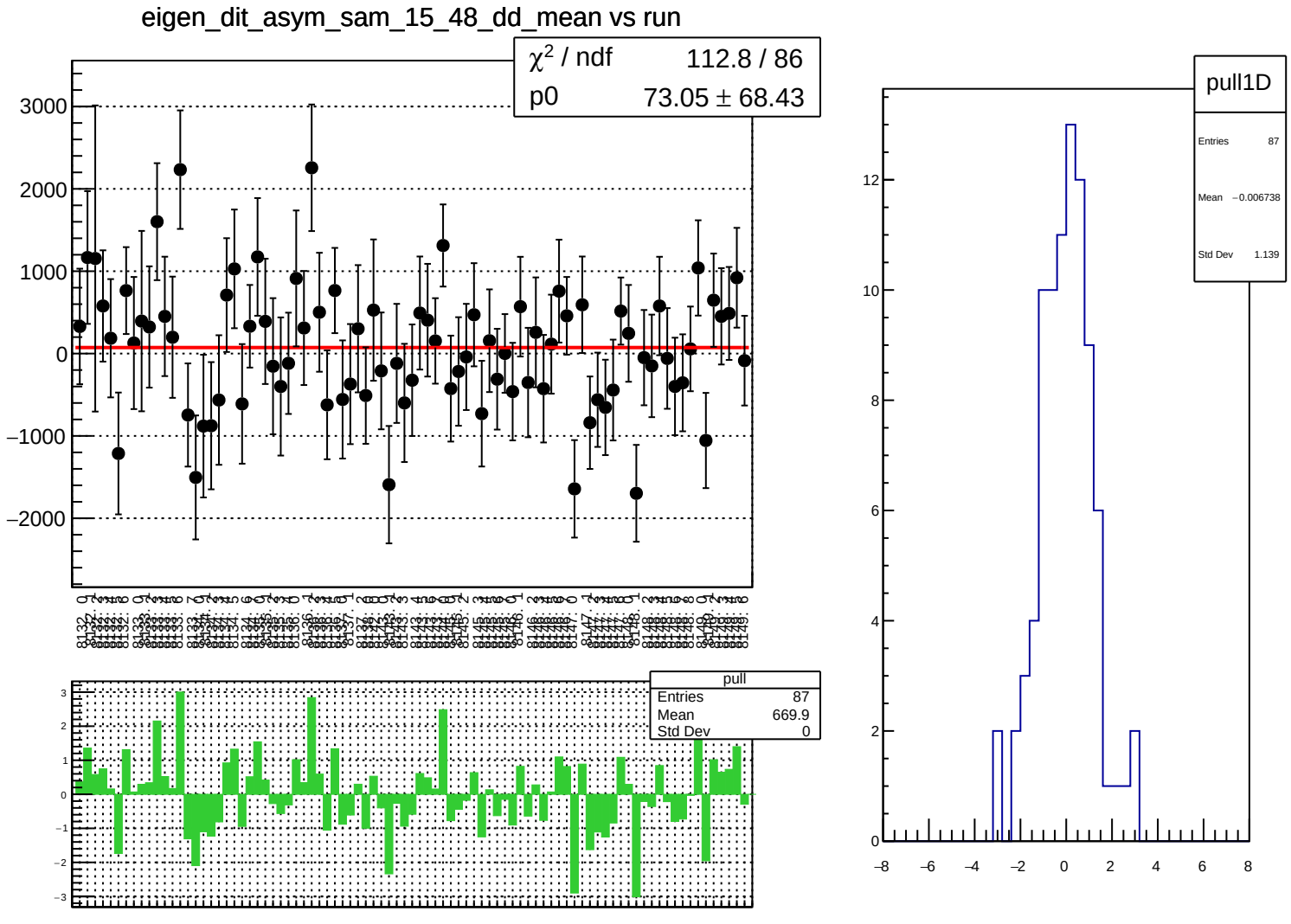

pull1D
Entries 87
Mean −0.006739
Std Dev 1.139

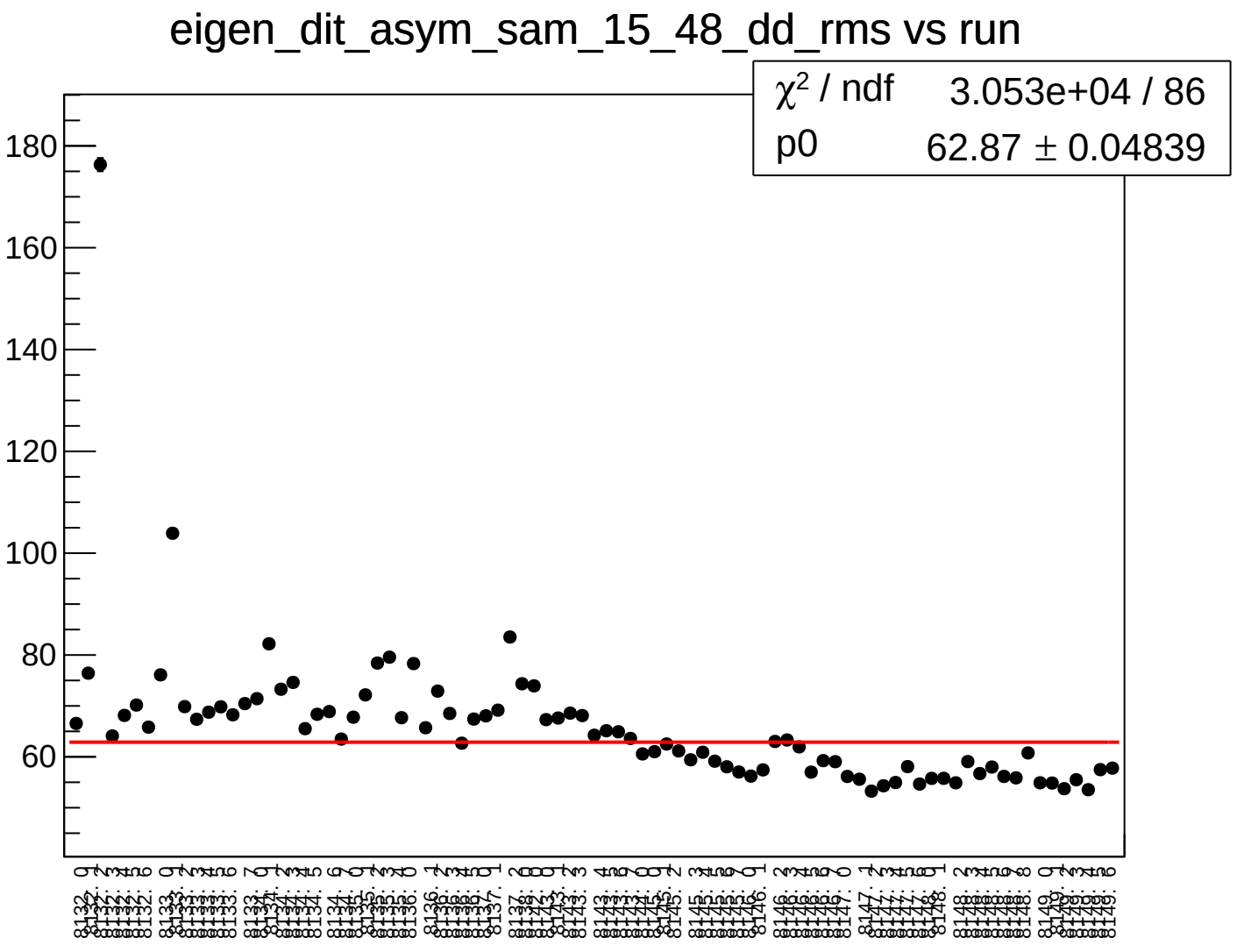

dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 3.053e+04 / 86
p0 62.87 ± 0.04839
180
160
140
120
100
80
60

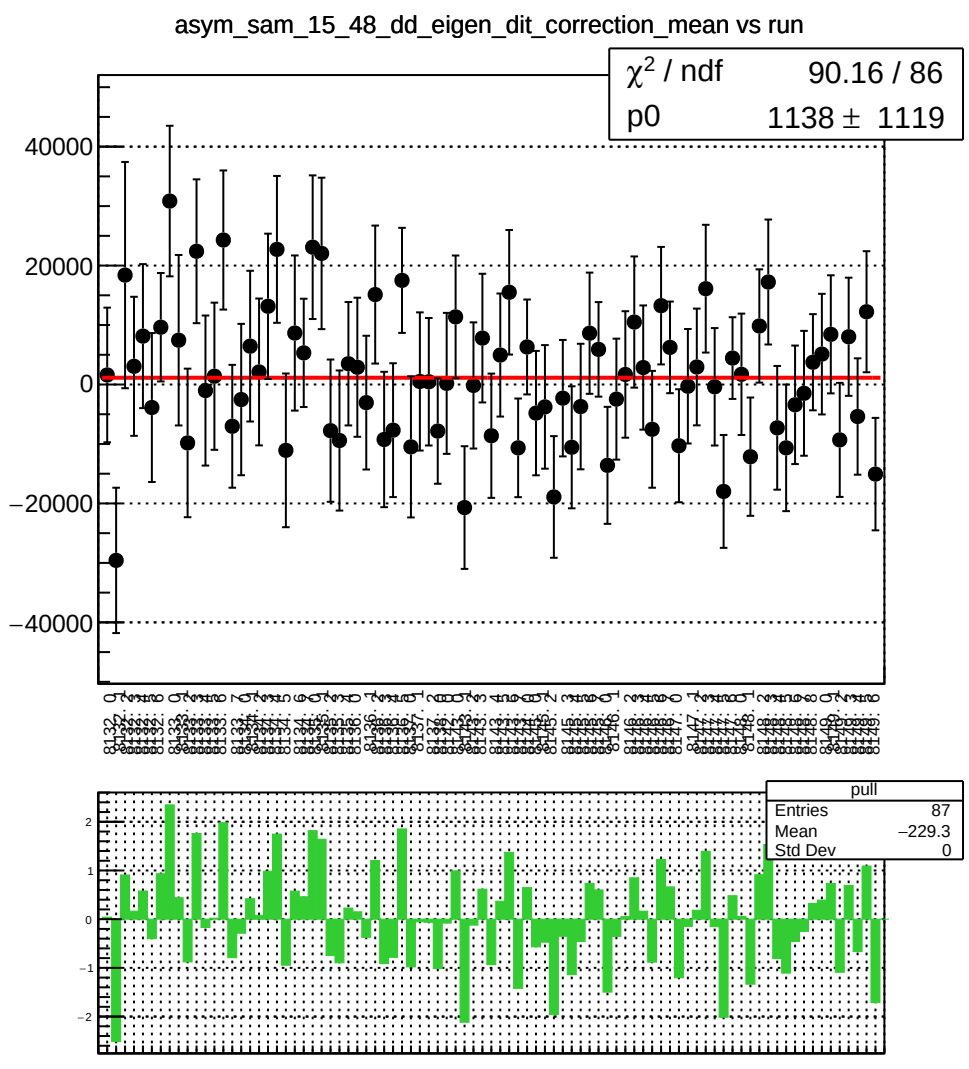

asym_sam_15_48_dd_dit_correction_mean vs run
χ² / ndf 90.16 / 86
p0 1138 ± 1119
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −229.3
Std Dev 0
2
1
0
−1
−2

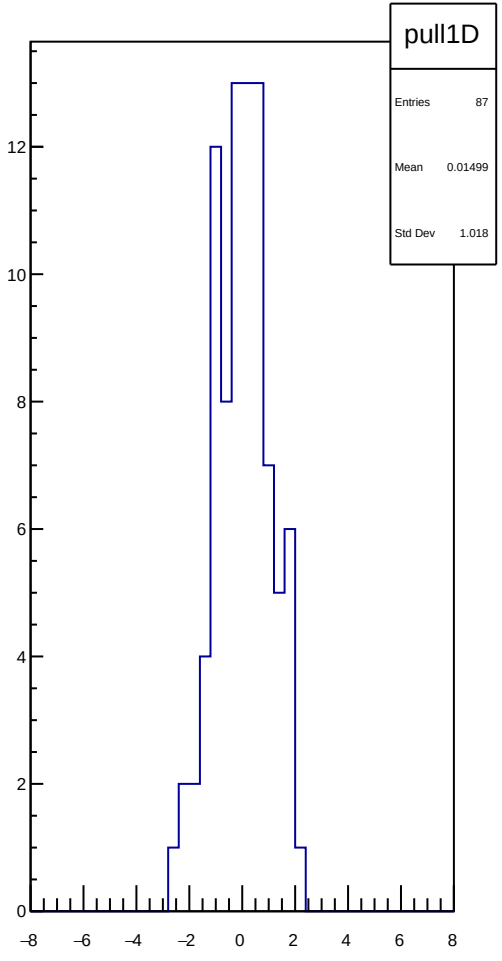

pull1D
Entries 87
Mean 0.01499
Std Dev 1.018
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

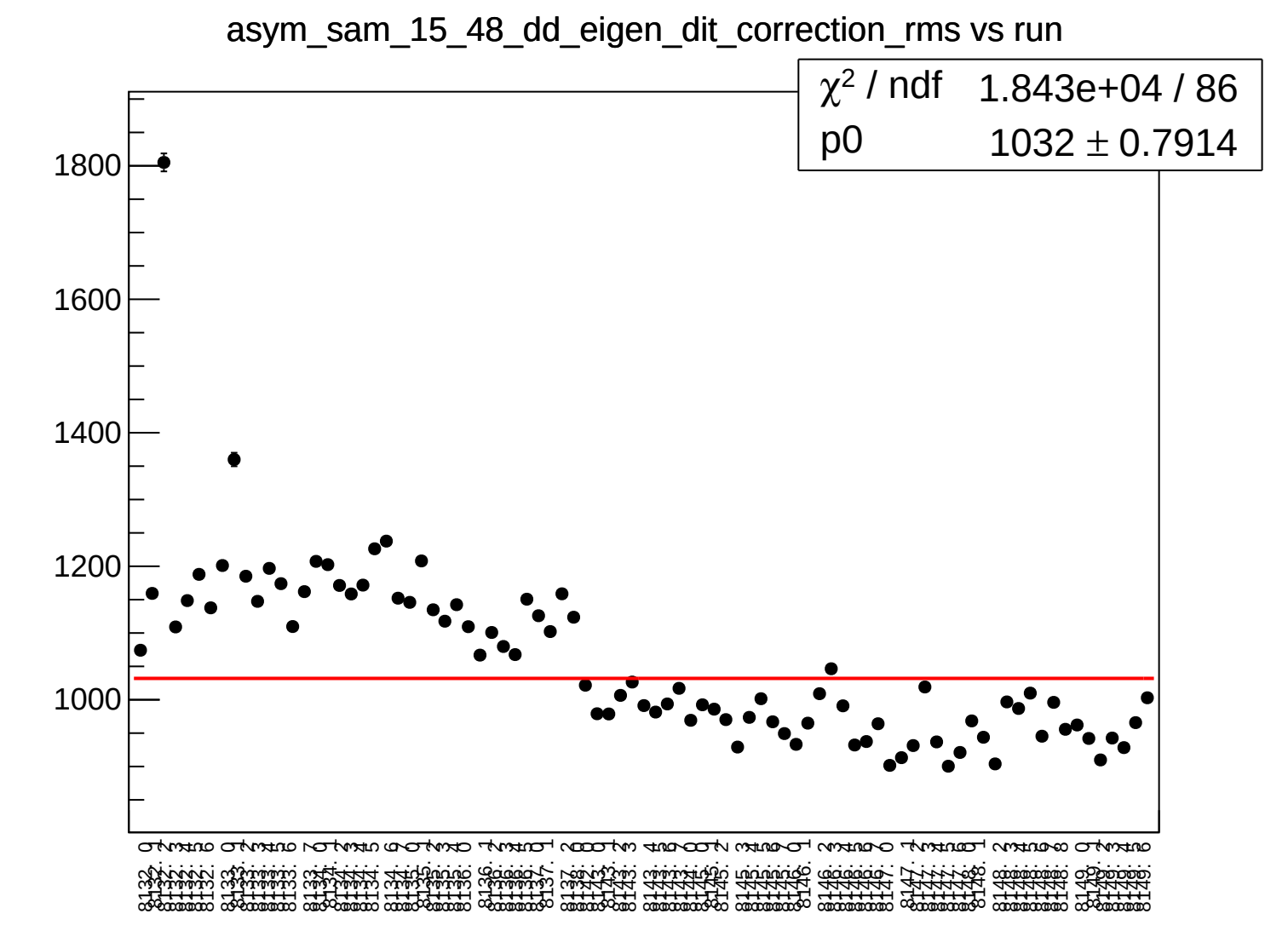

asym_sam_15_48_dd_dit_correction_rms vs run
χ² / ndf 1.843e+04 / 86
p0 1032 ± 0.7914
1800
1600
1400
1200
1000

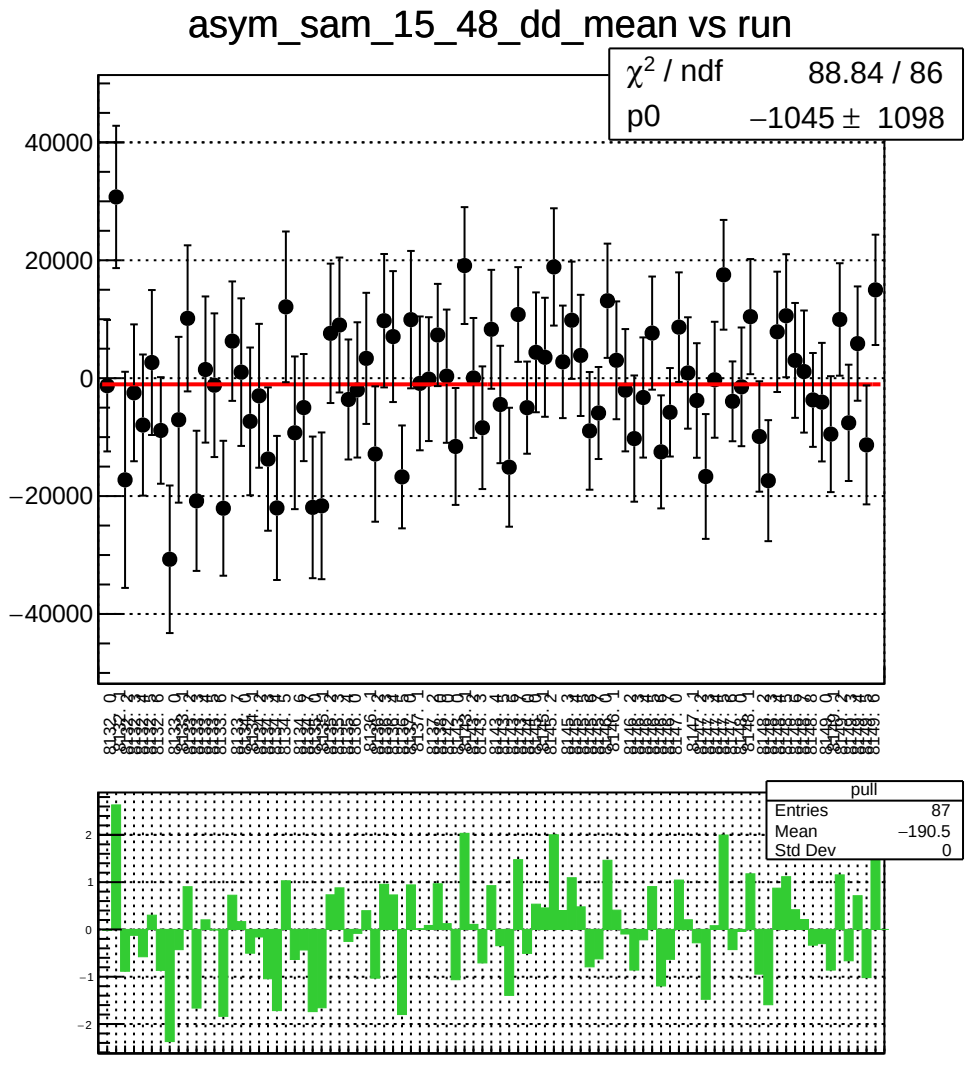

eigen_dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 112.8 / 86
p0 73.05 ± 68.43
3000
2000
1000
0
−1000
−2000
pull
Entries 87
Mean 669.9
Std Dev 0
pull1D
Entries 87
Mean −0.006738
Std Dev 1.139
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

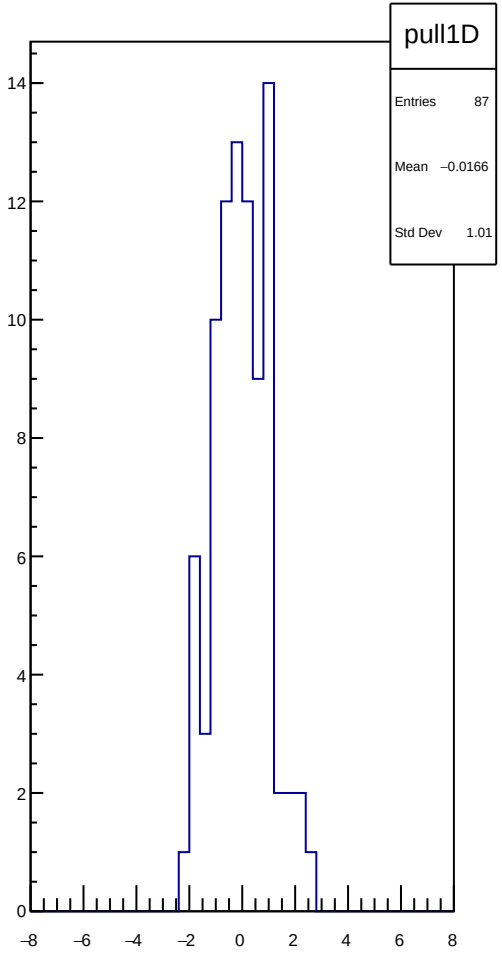

eigen_dit_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 3.053e+04 / 86
p0 62.87 ± 0.04839
180
160
140
120
100
80
60

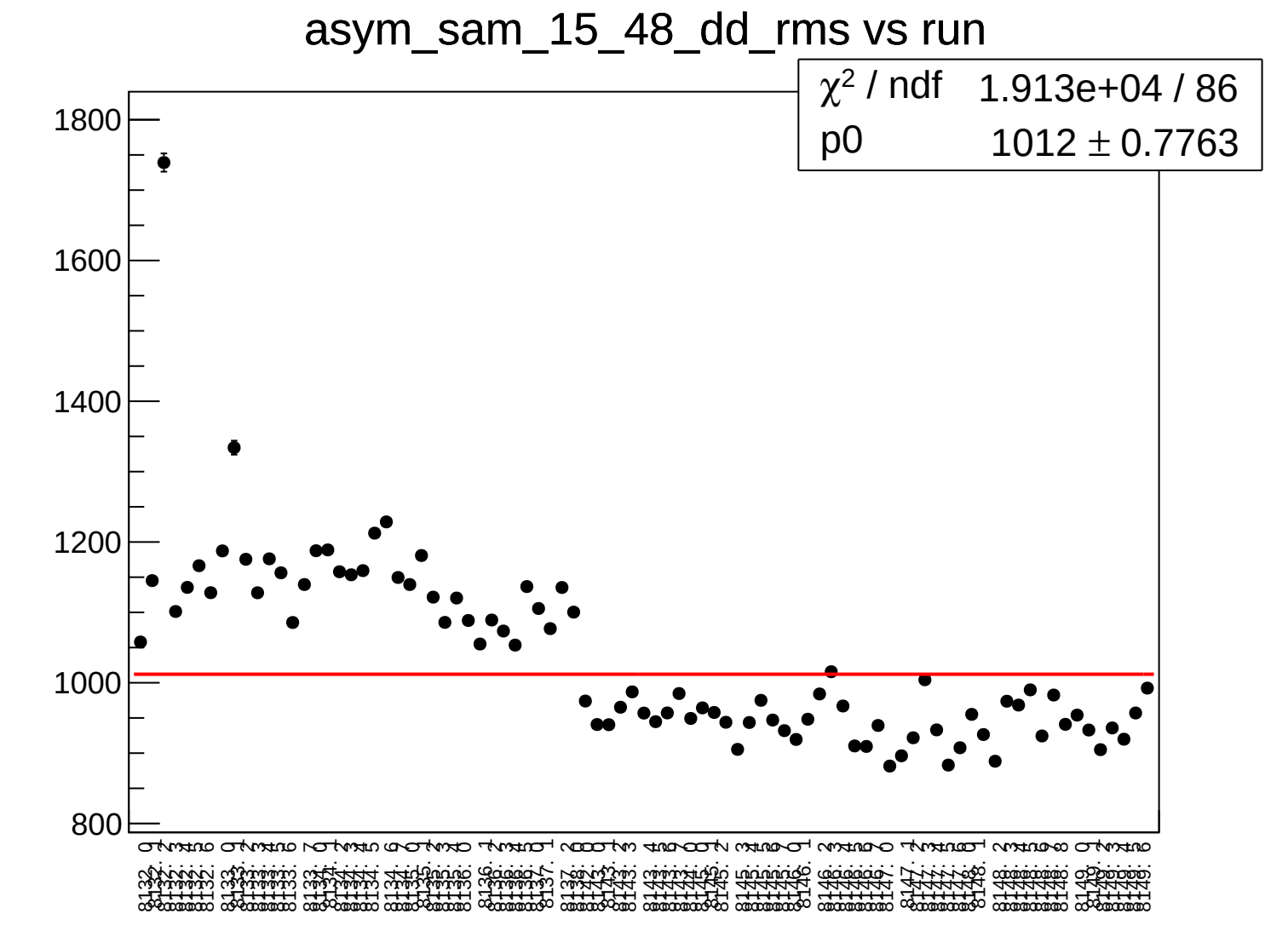

asym_sam_15_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 90.16 / 86
p0 1138 ± 1119
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −229.3
Std Dev 0
2
1
0
−1
−2

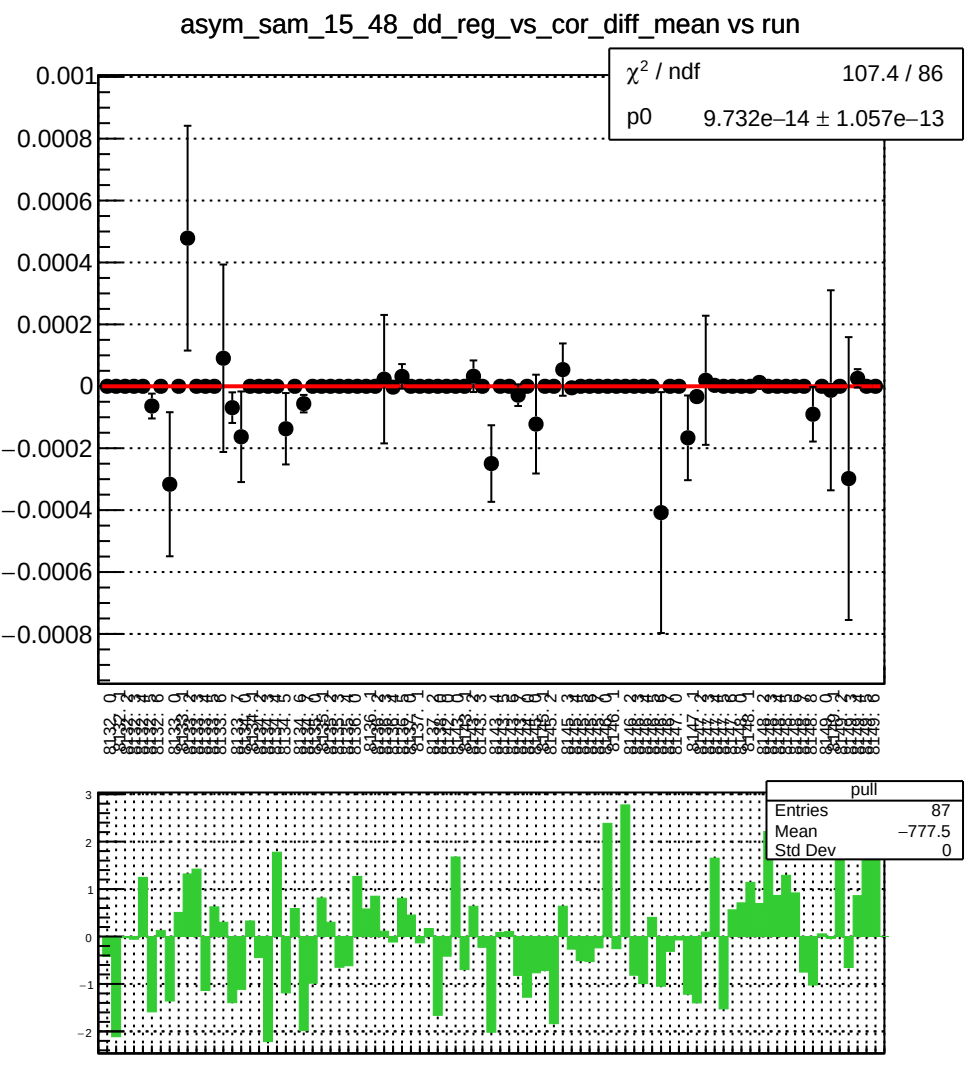

pull1D
Entries 87
Mean 0.01499
Std Dev 1.018
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

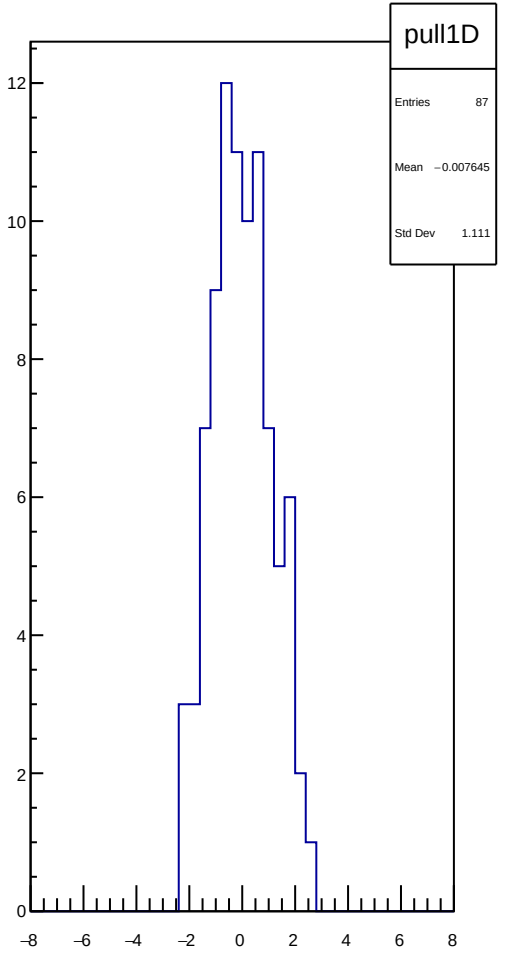

asym_sam_15_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.843e+04 / 86
p0 1032 ± 0.7914
1800
1600
1400
1200
1000

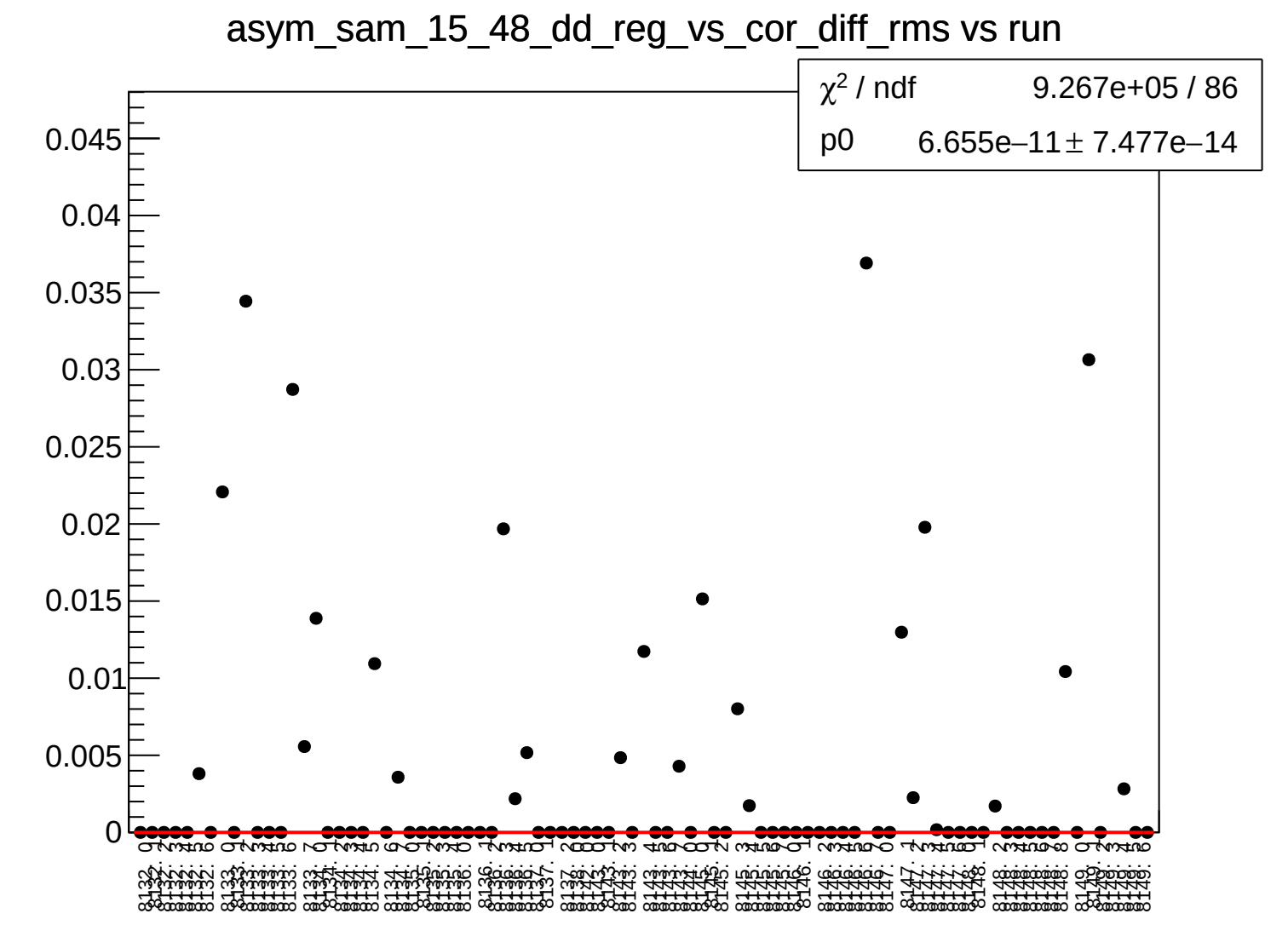

asym_sam_15_48_dd_mean vs run
χ² / ndf 88.84 / 86
p0 −1045 ± 1098
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −190.5
Std Dev 0
2
1
0
−1
−2

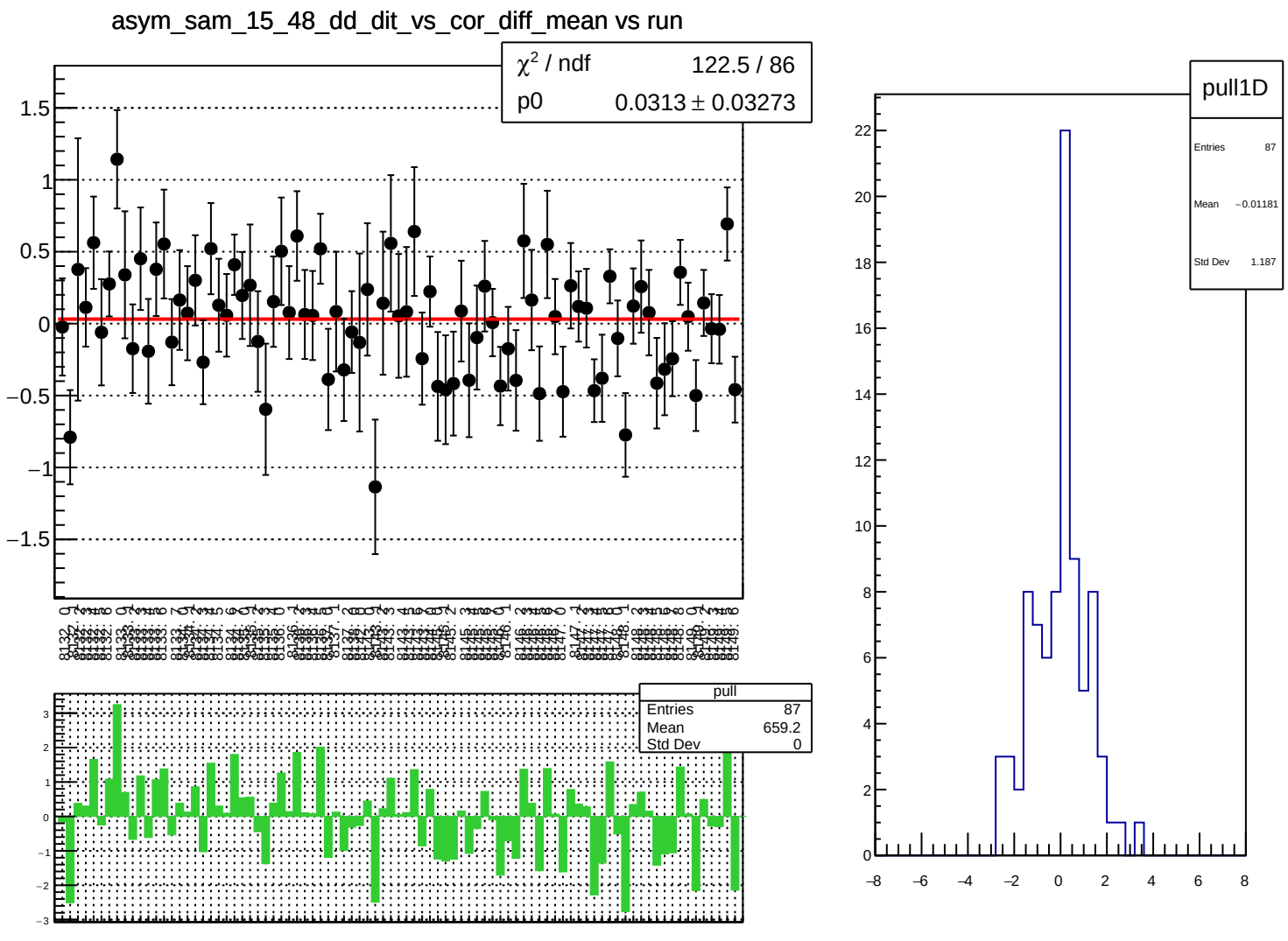

pull1D
Entries 87
Mean −0.0166
Std Dev 1.01
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

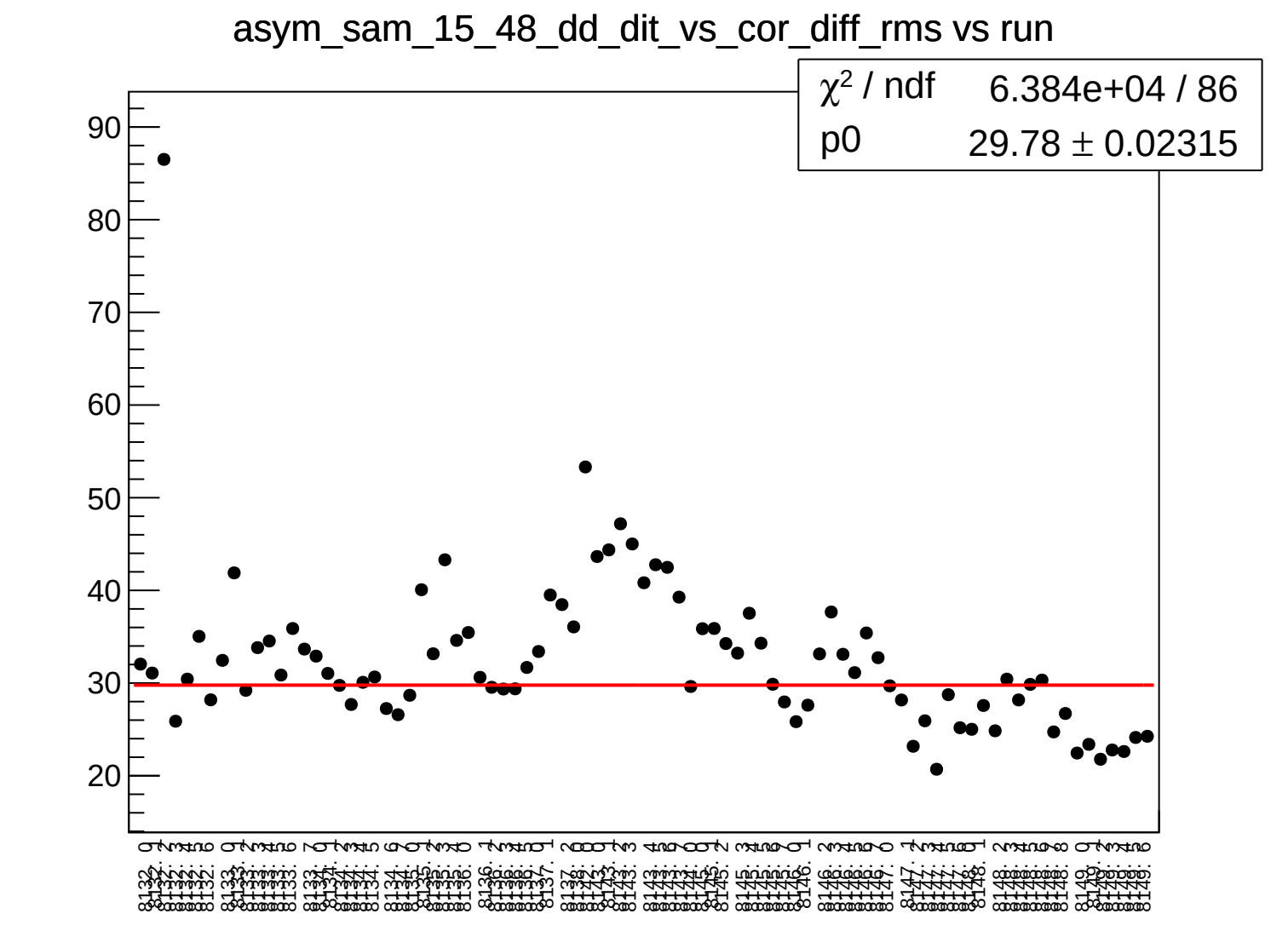

asym_sam_15_48_dd_rms vs run
χ² / ndf 1.913e+04 / 86
p0 1012 ± 0.7763
1800
1600
1400
1200
1000
800

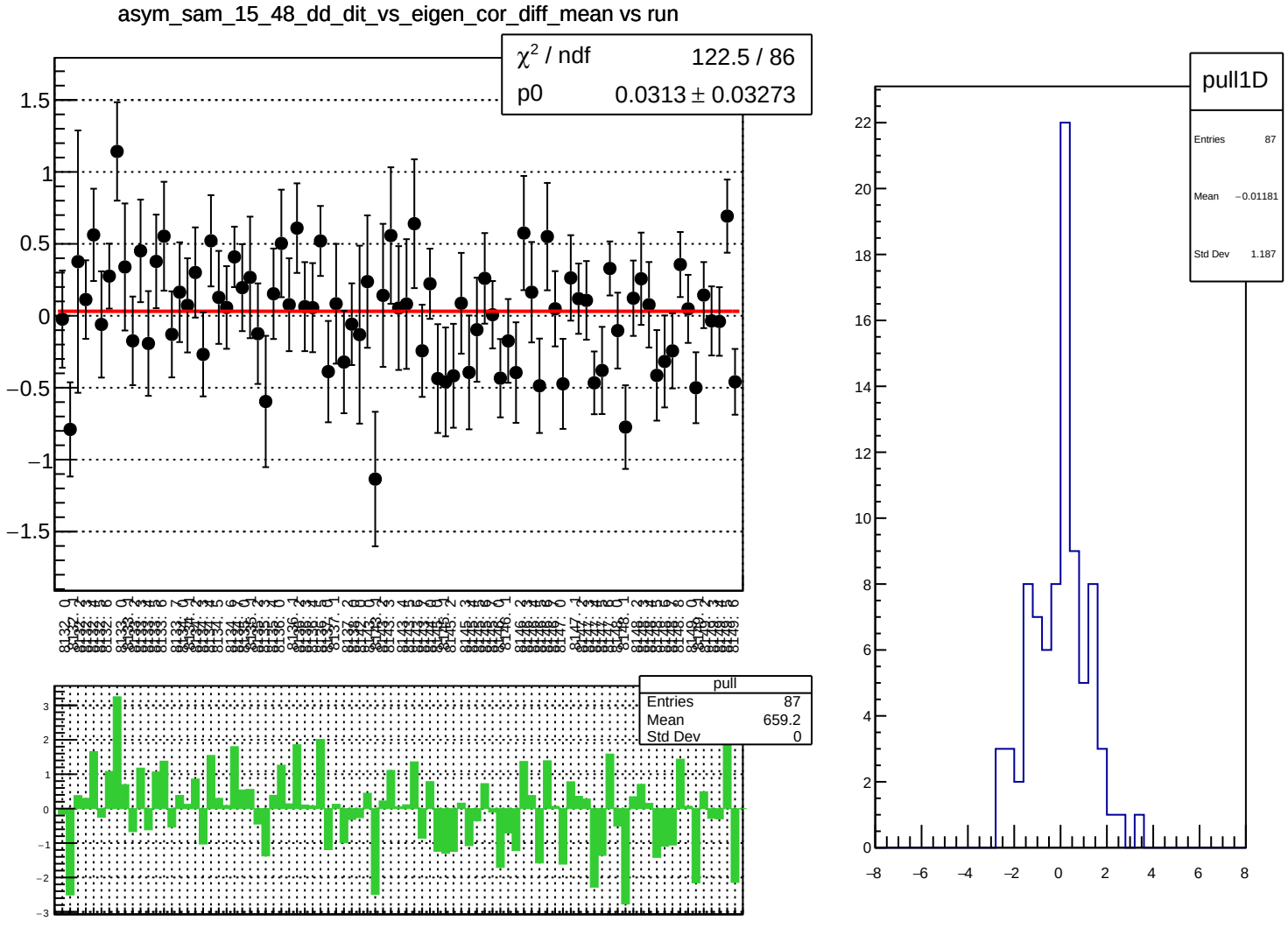

asym_sam_15_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 107.4 / 86
p0 9.732e−14 ± 1.057e−13
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
pull
Entries 87
Mean −777.5
Std Dev 0
3
2
1
0
−1
−2

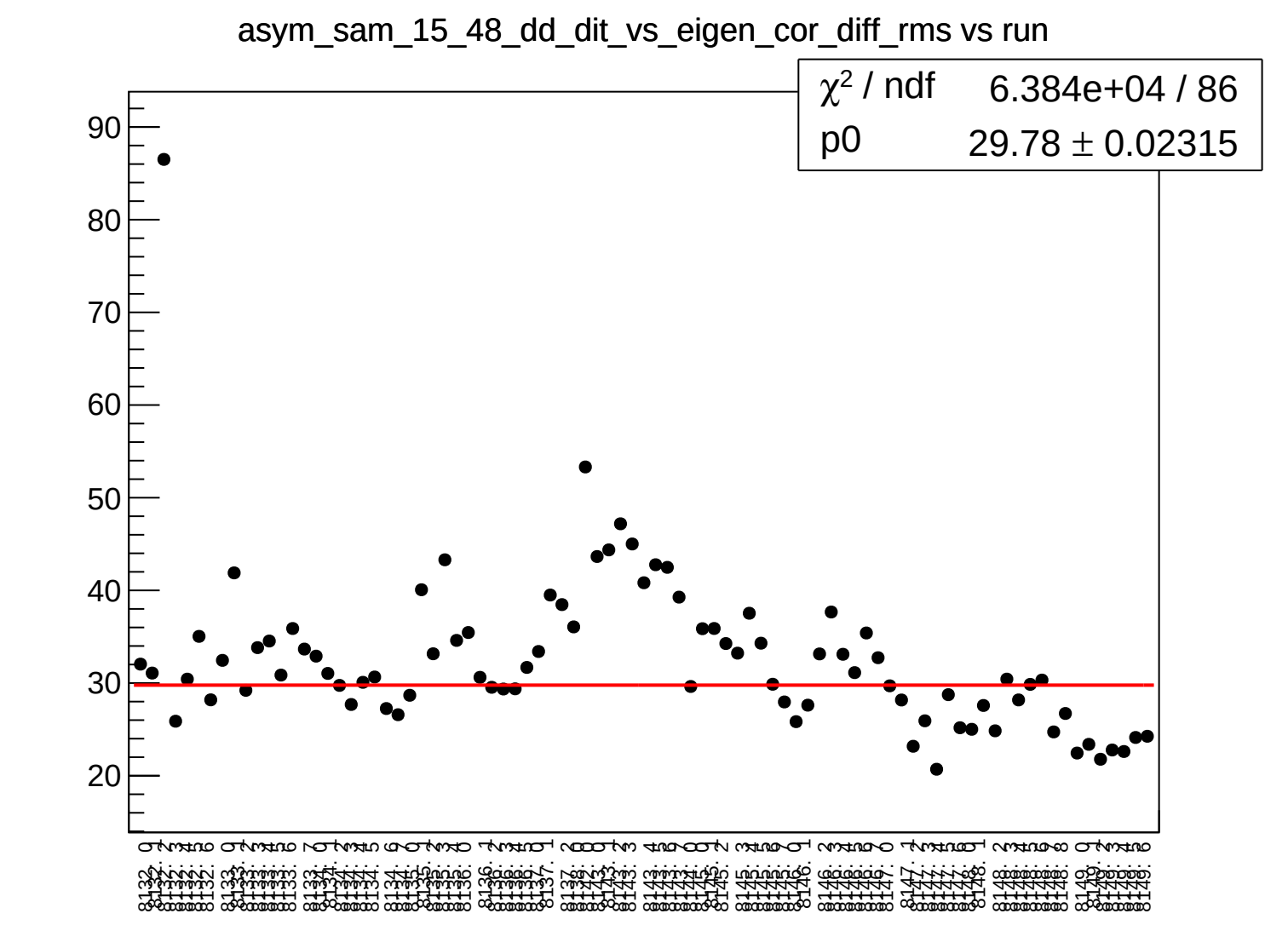

pull1D
Entries 87
Mean −0.007645
Std Dev 1.111
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

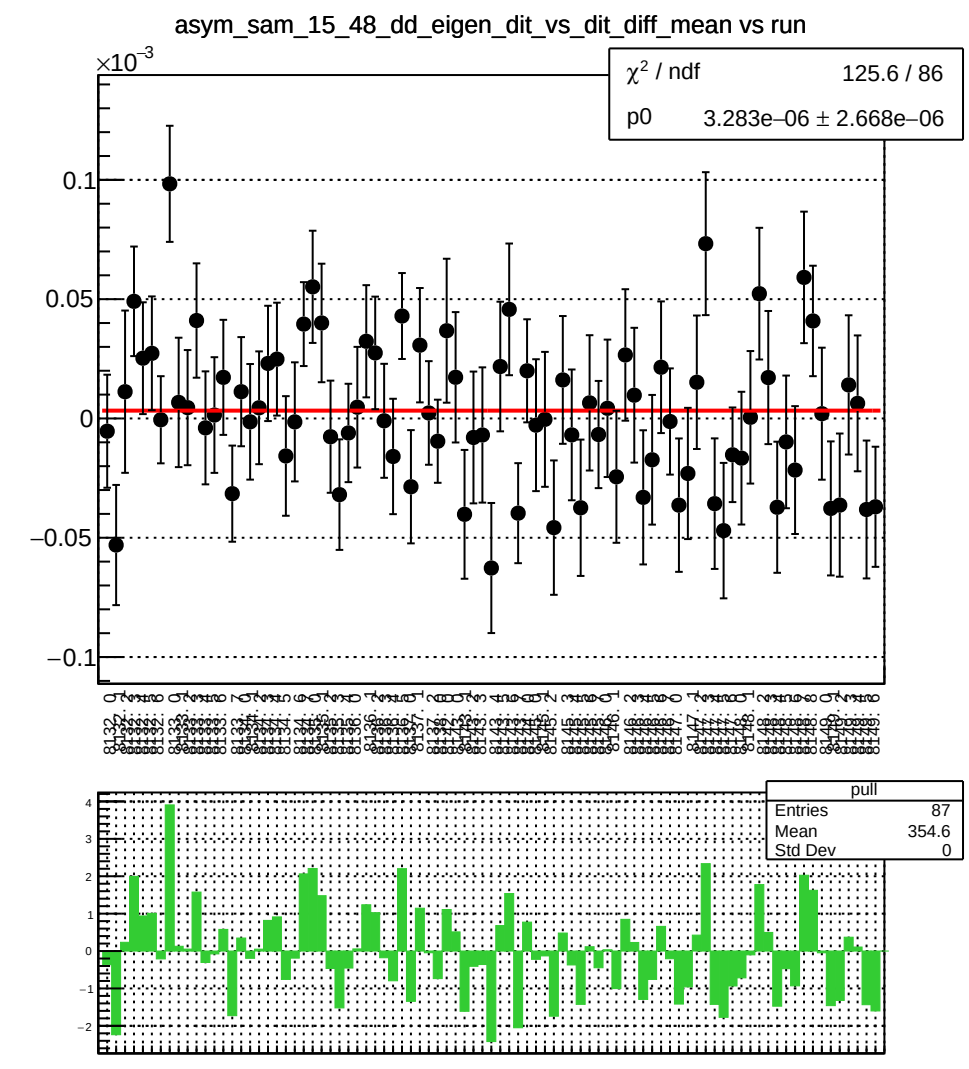

asym_sam_15_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.267e+05 / 86
p0 6.655e−11 ± 7.477e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

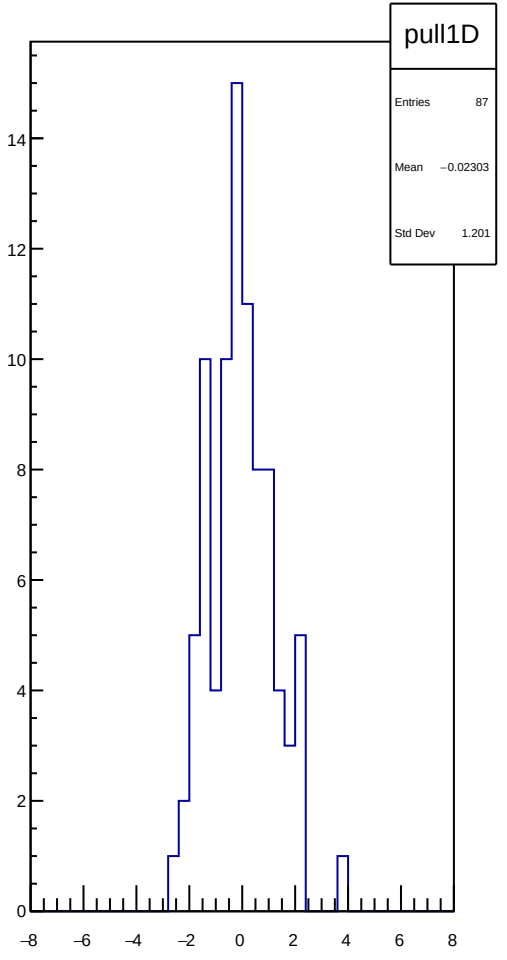

asym_sam_15_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 122.5 / 86
p0 0.0313 ± 0.03273
pull
Entries 87
Mean 659.2
Std Dev 0
pull1D
Entries 87
Mean −0.01181
Std Dev 1.187

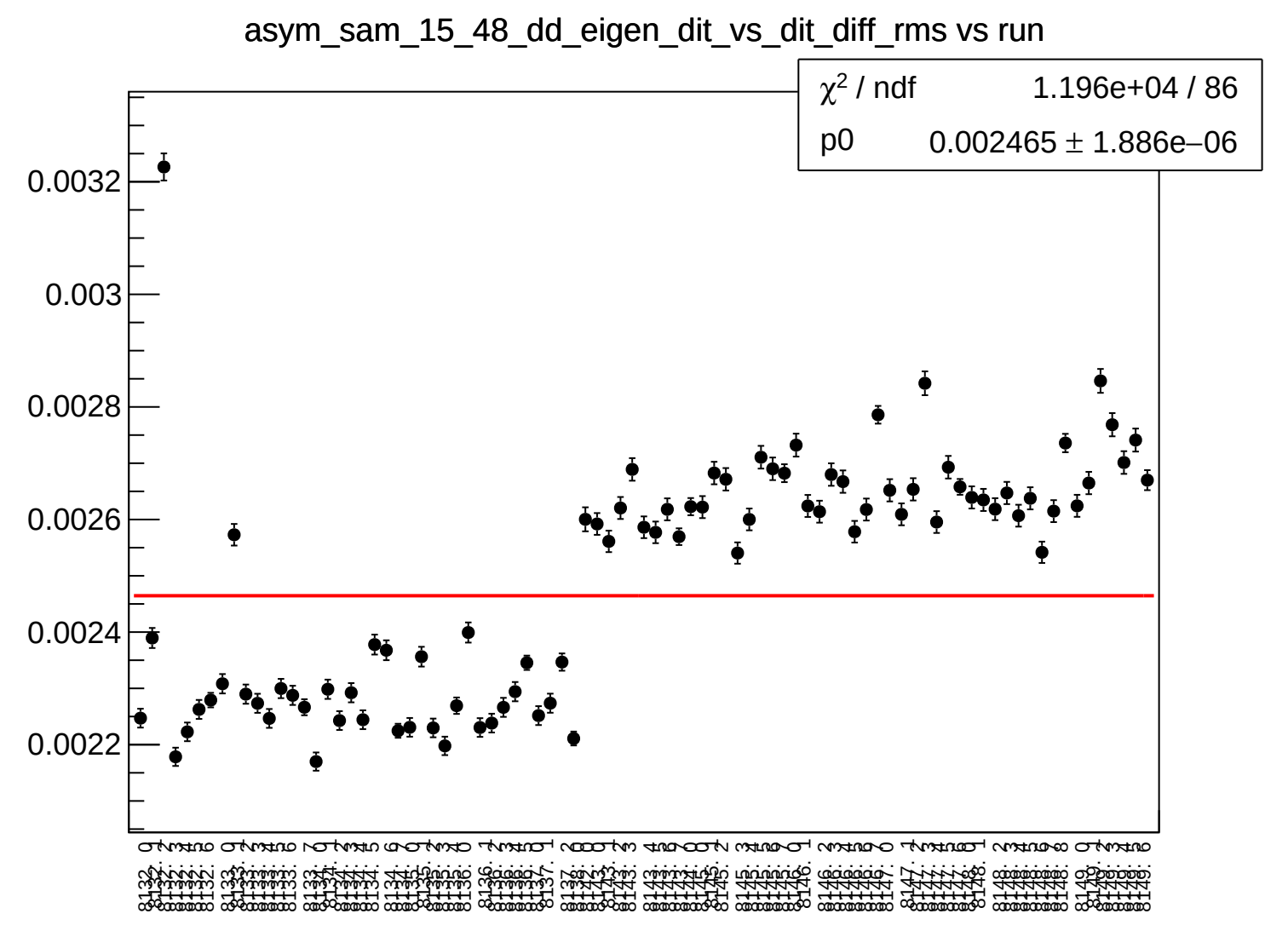

asym_sam_15_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.384e+04 / 86
p0 29.78 ± 0.02315
90
80
70
60
50
40
30
20

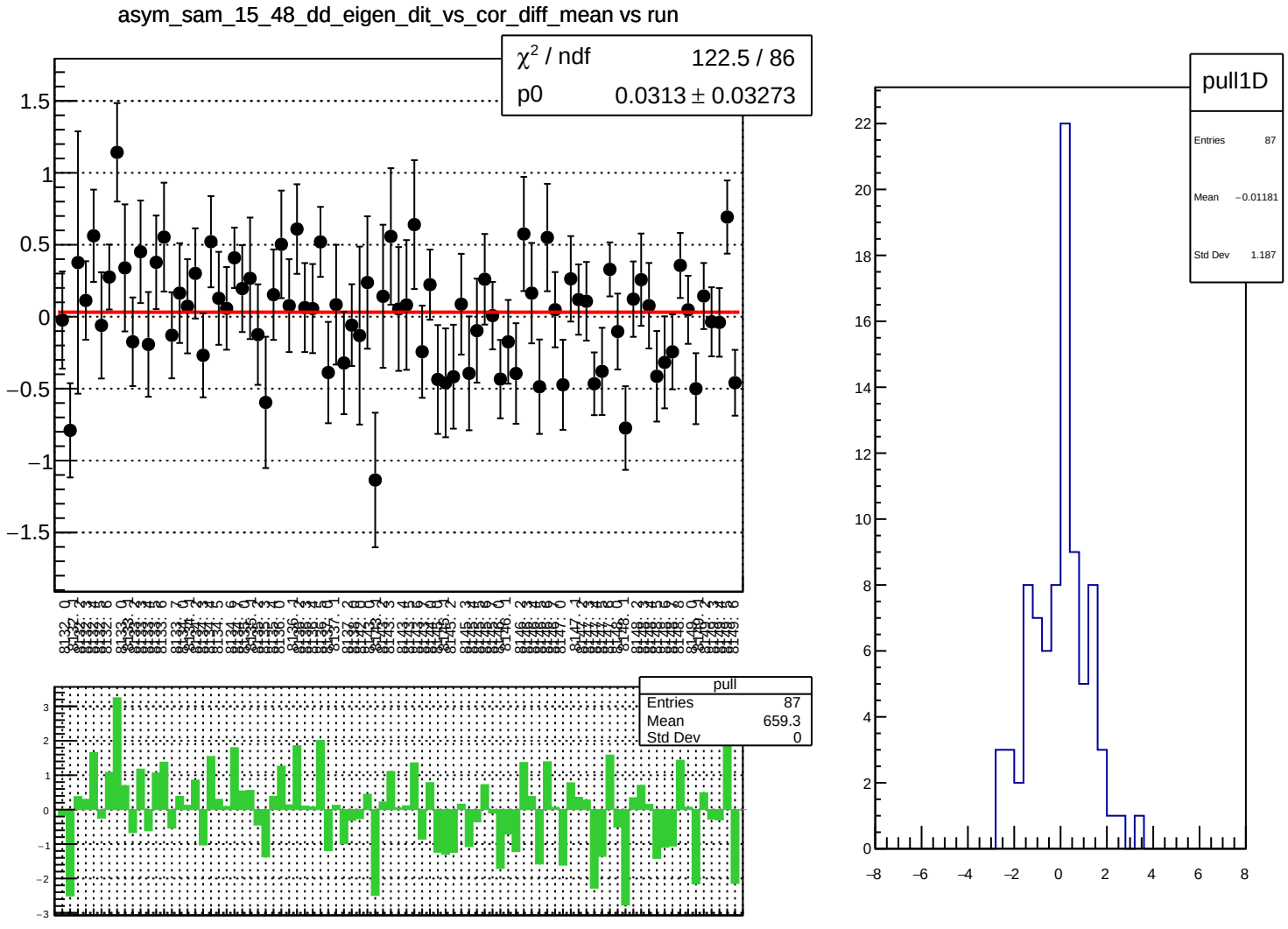

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 122.5 / 86
p0 0.0313 ± 0.03273
pull
Entries 87
Mean 659.2
Std Dev 0
pull1D
Entries 87
Mean −0.01181
Std Dev 1.187

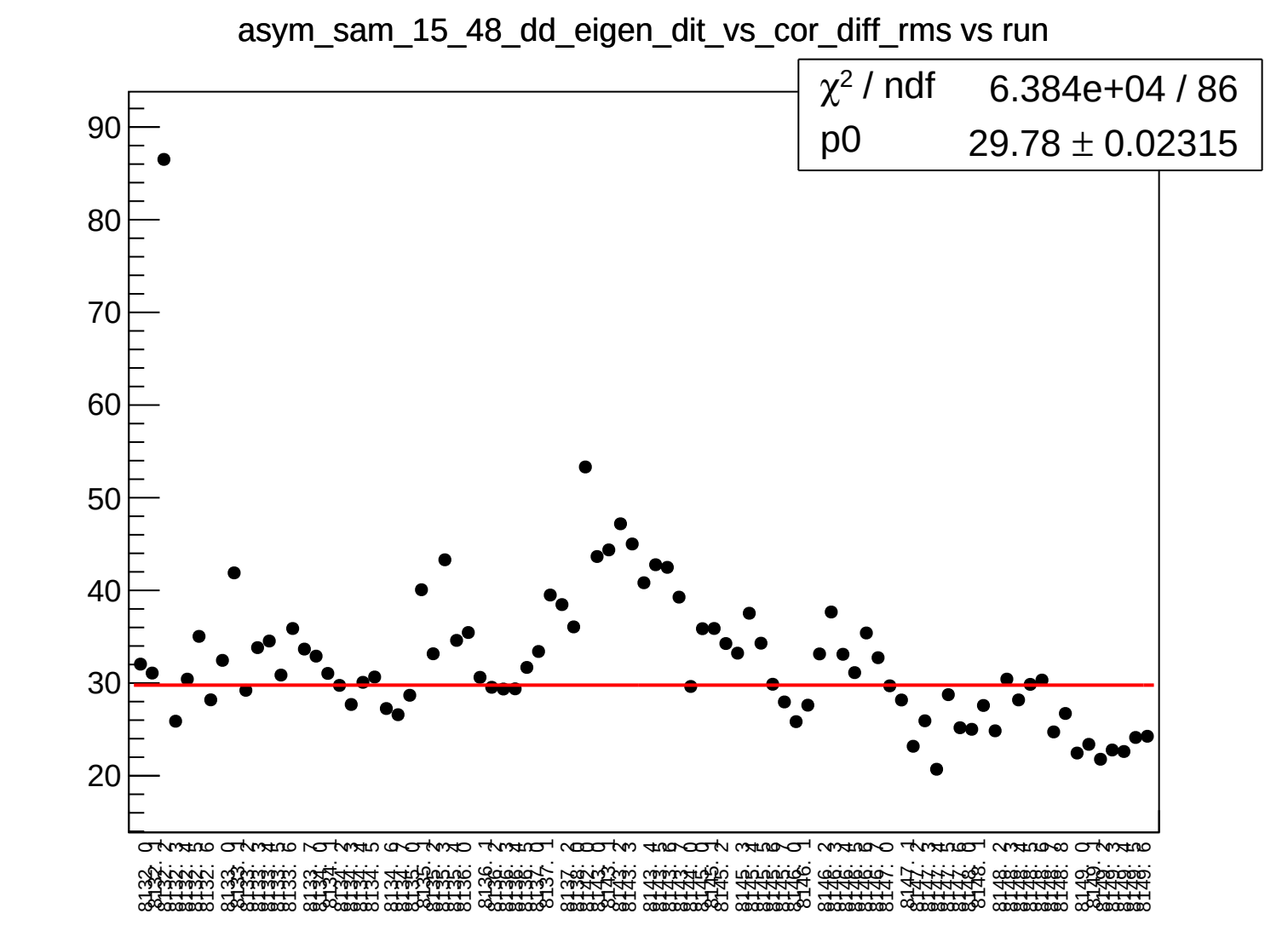

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.384e+04 / 86
p0 29.78 ± 0.02315
90
80
70
60
50
40
30
20

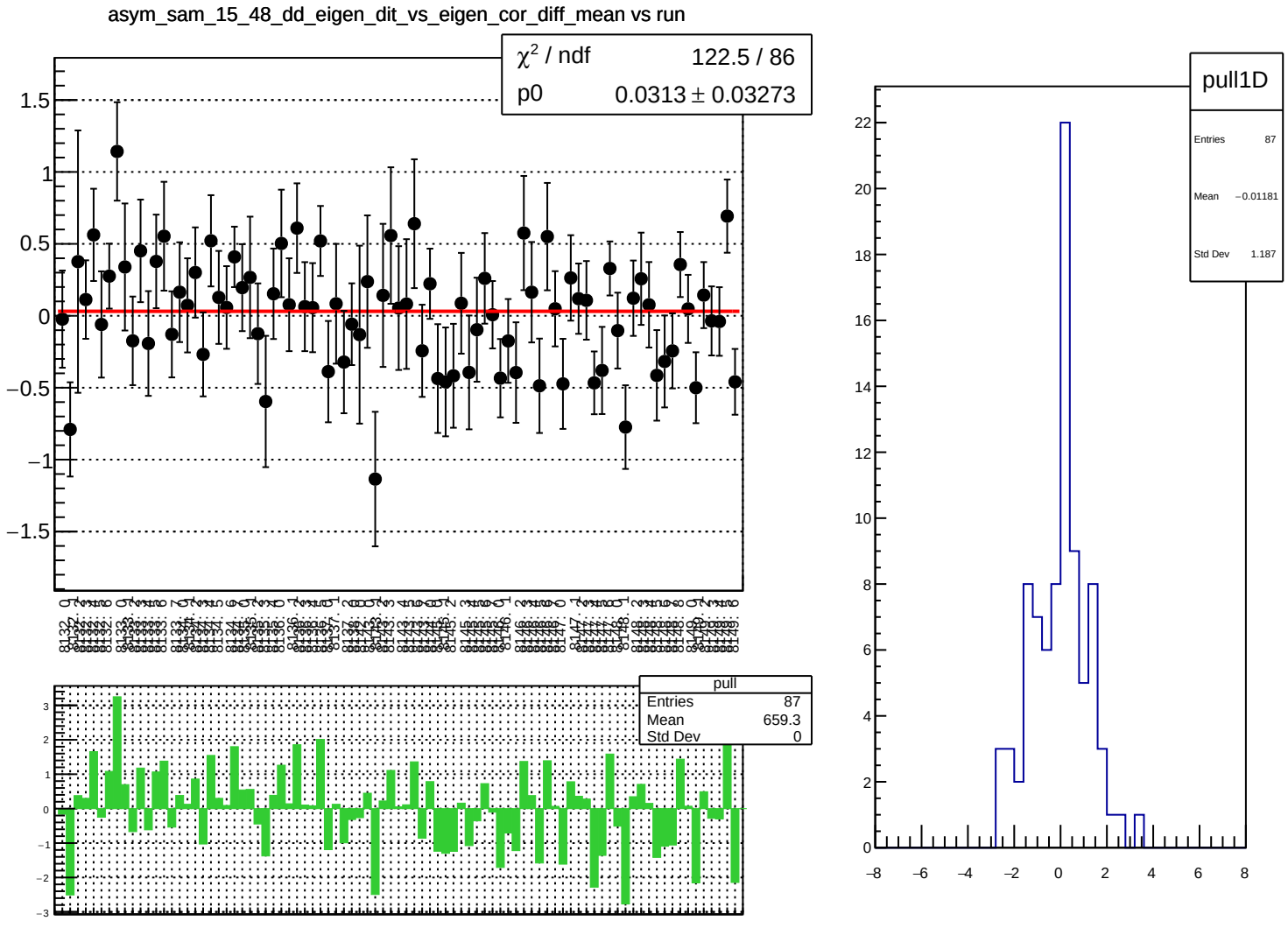

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 125.6 / 86
p0 3.283e−06 ± 2.668e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 87
Mean 354.6
Std Dev 0
4
3
2
1
0
−1
−2

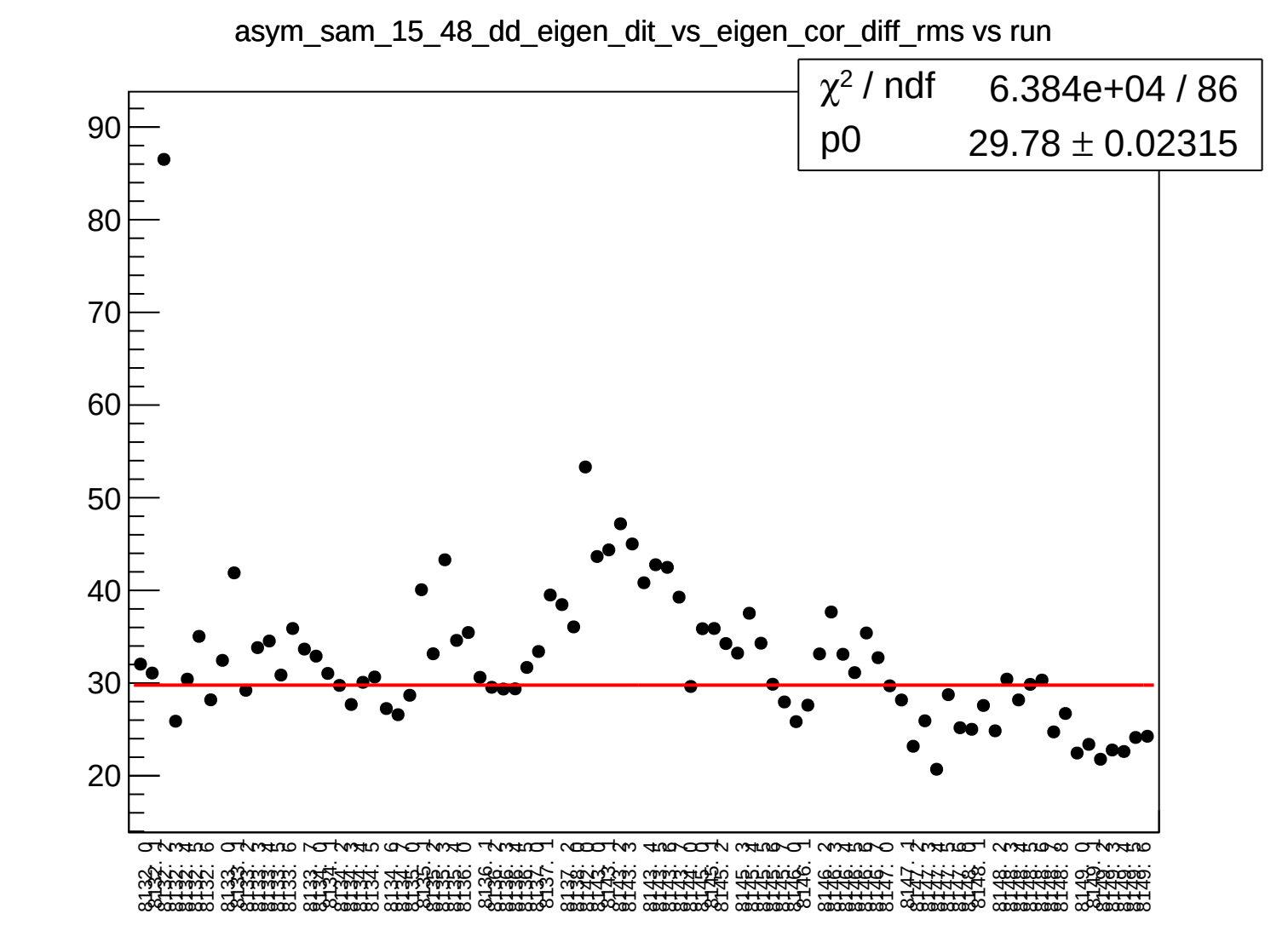

pull1D
Entries 87
Mean −0.02303
Std Dev 1.201
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

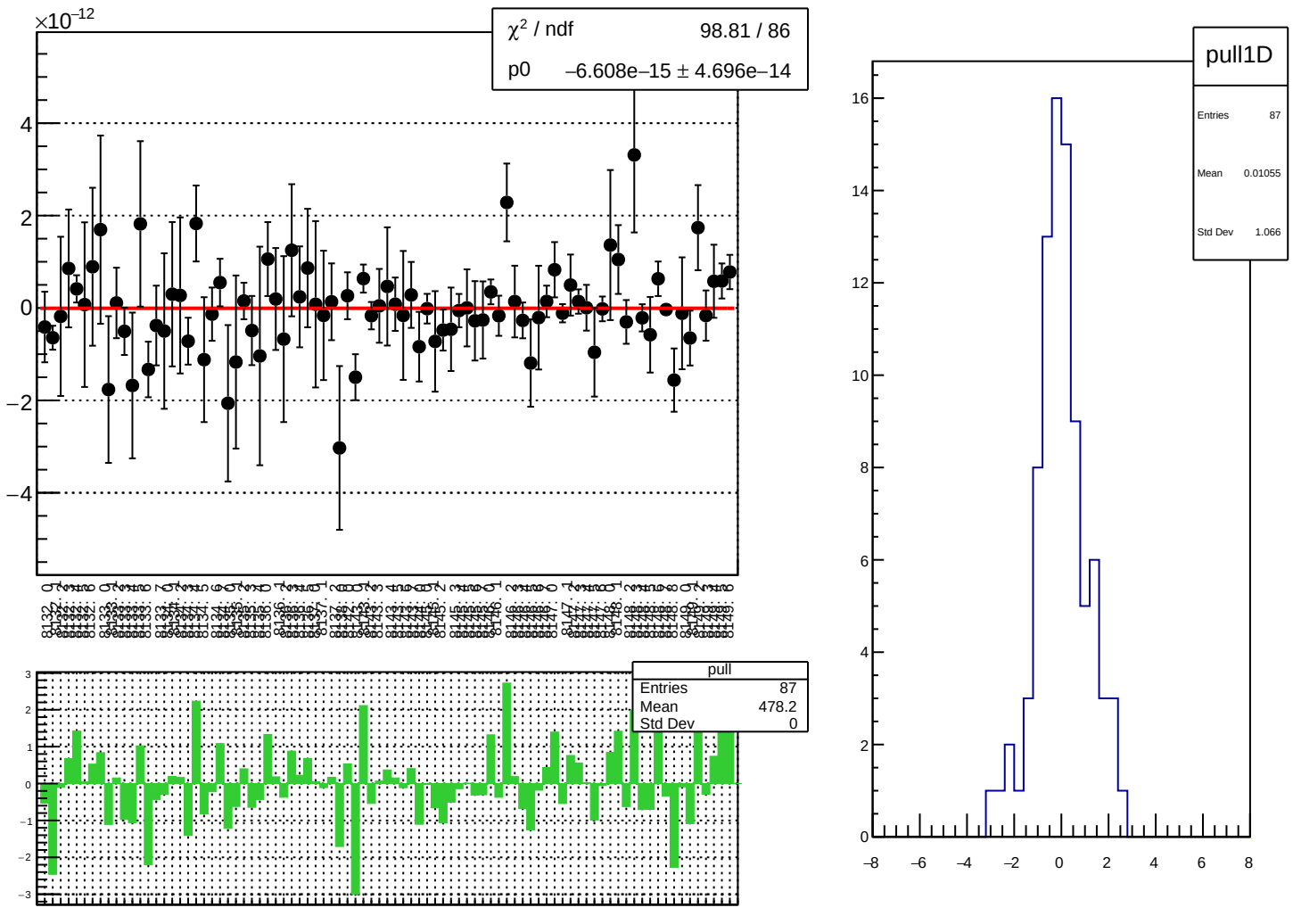

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.196e+04 / 86
p0 0.002465 ± 1.886e−06
0.0032
0.003
0.0028
0.0026
0.0024
0.0022

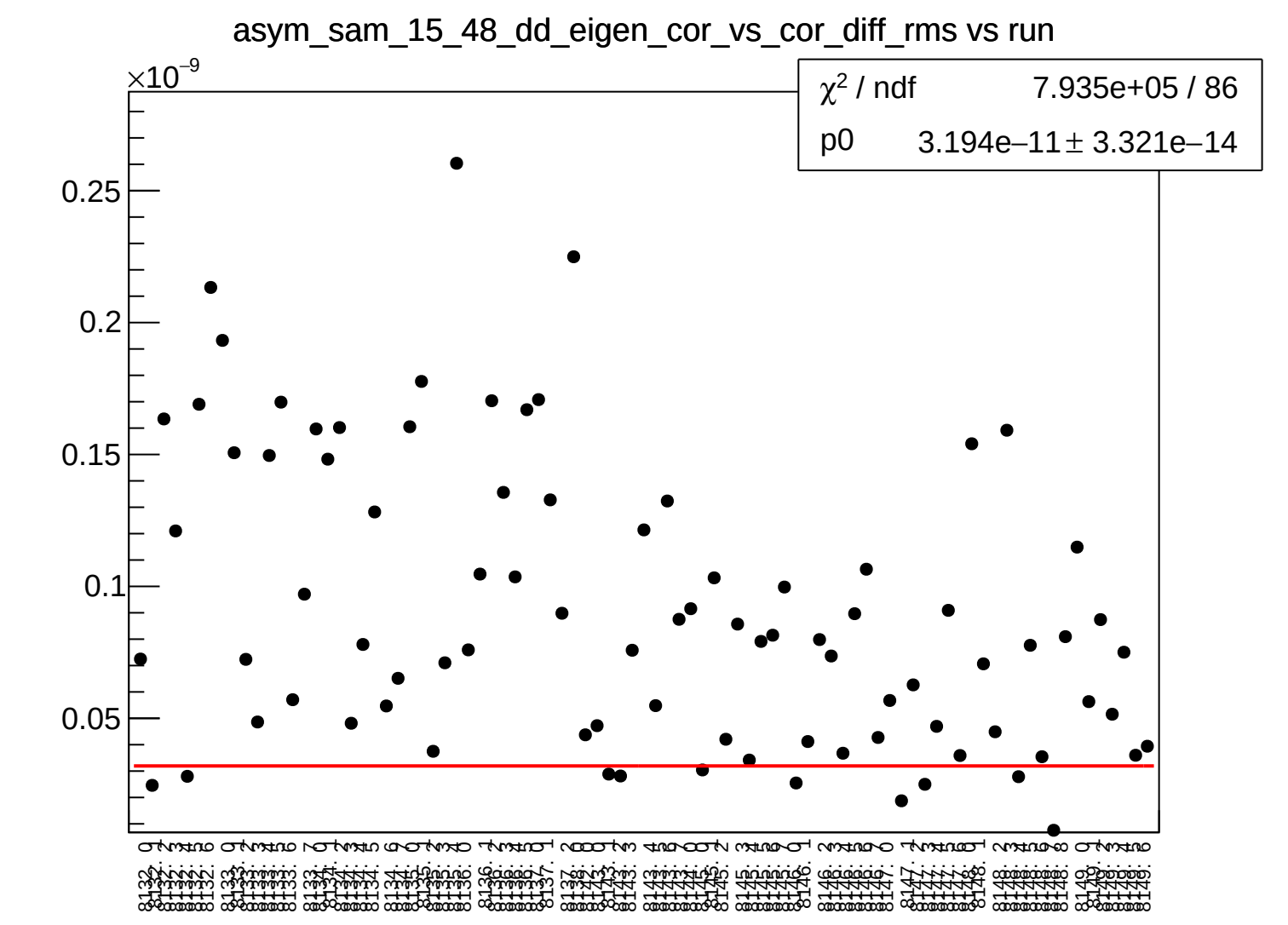

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 122.5 / 86
p0 0.0313 ± 0.03273
pull
Entries 87
Mean 659.3
Std Dev 0
pull1D
Entries 87
Mean −0.01181
Std Dev 1.187

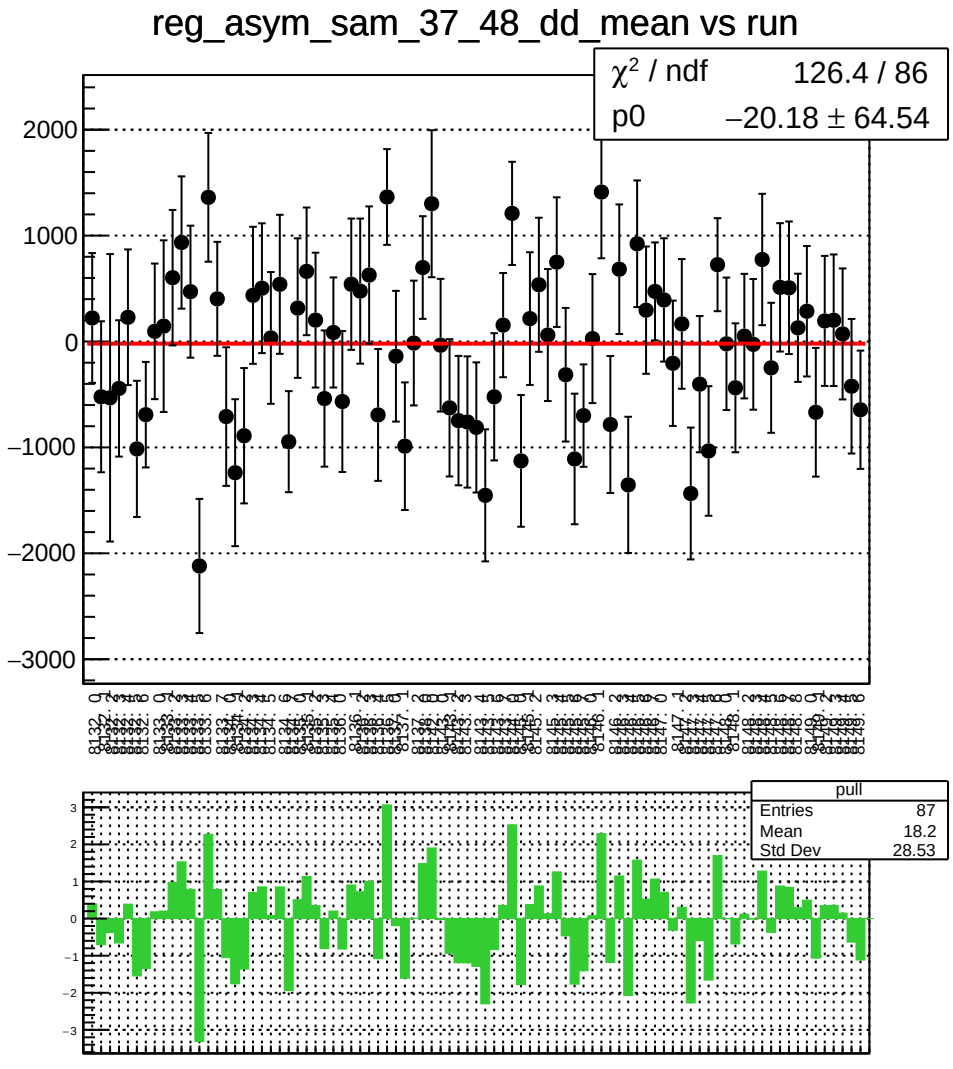

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.384e+04 / 86
p0 29.78 ± 0.02315
90
80
70
60
50
40
30
20

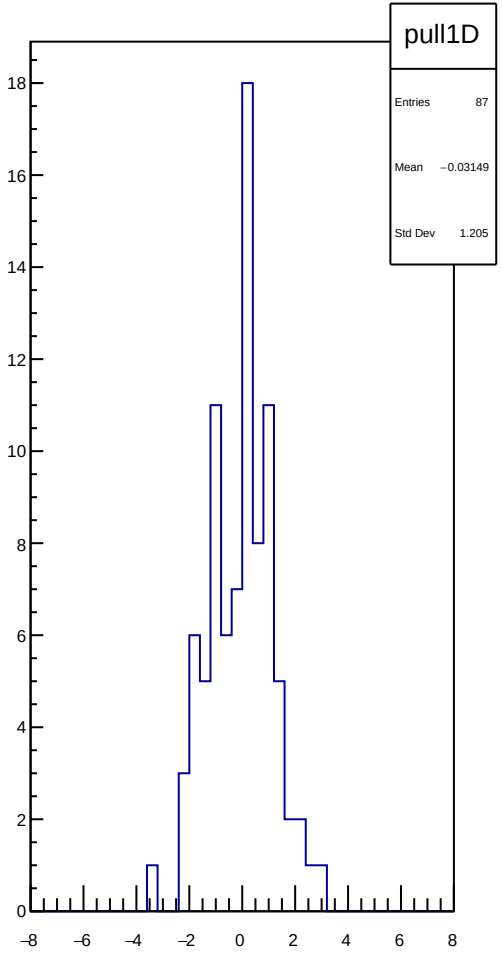

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 122.5 / 86
p0 0.0313 ± 0.03273
pull
Entries 87
Mean 659.3
Std Dev 0
pull1D
Entries 87
Mean −0.01181
Std Dev 1.187

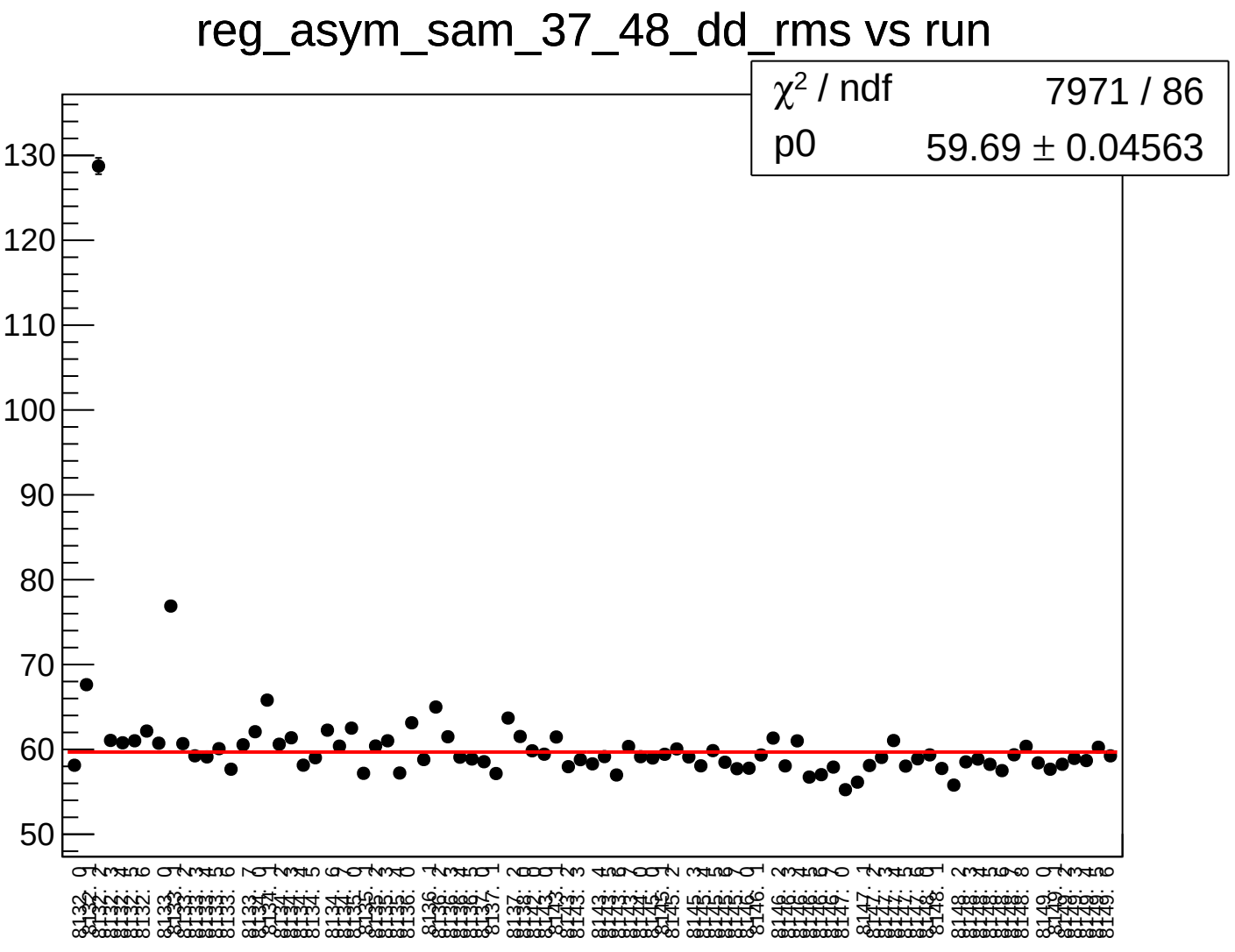

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.384e+04 / 86
p0 29.78 ± 0.02315
90
80
70
60
50
40
30
20

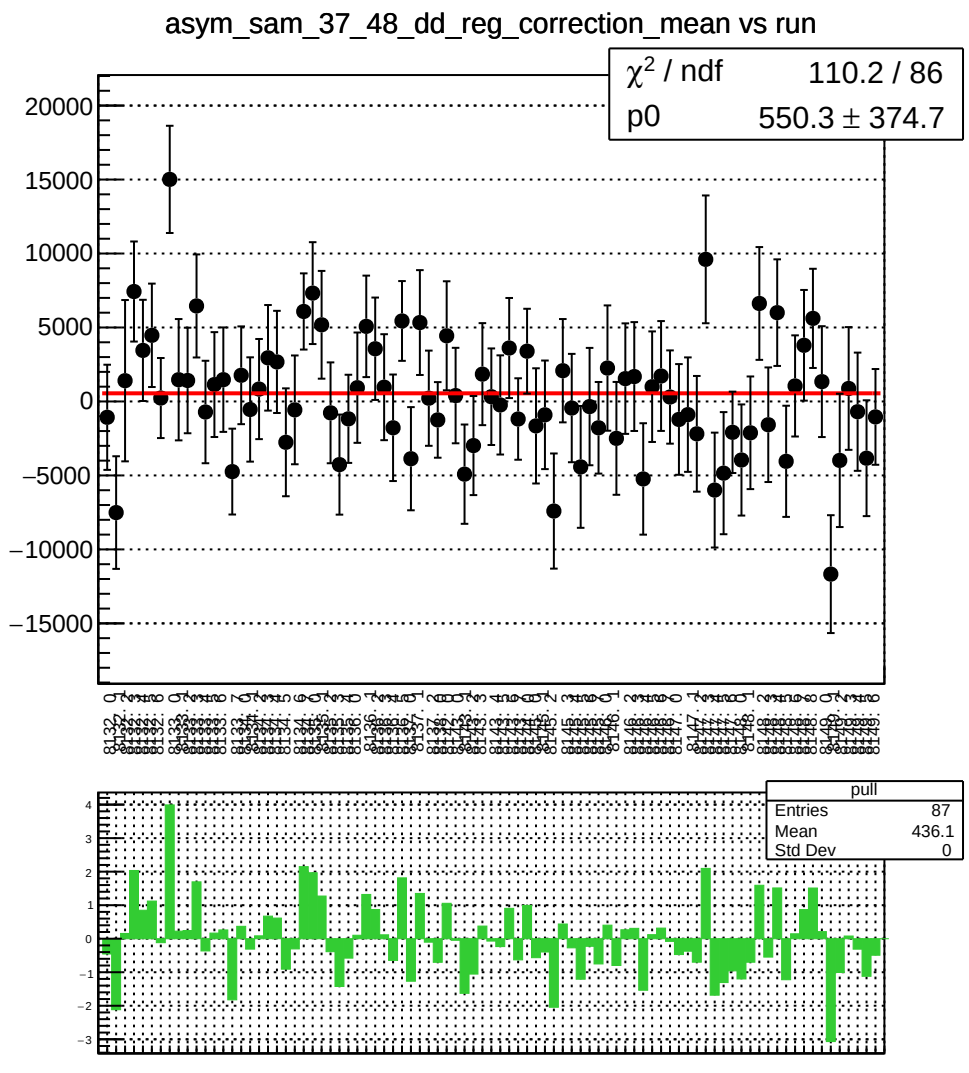

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.81 / 86
p0 −6.608e−15 ± 4.696e−14
pull
Entries 87
Mean 478.2
Std Dev 0
pull1D
Entries 87
Mean 0.01055
Std Dev 1.066

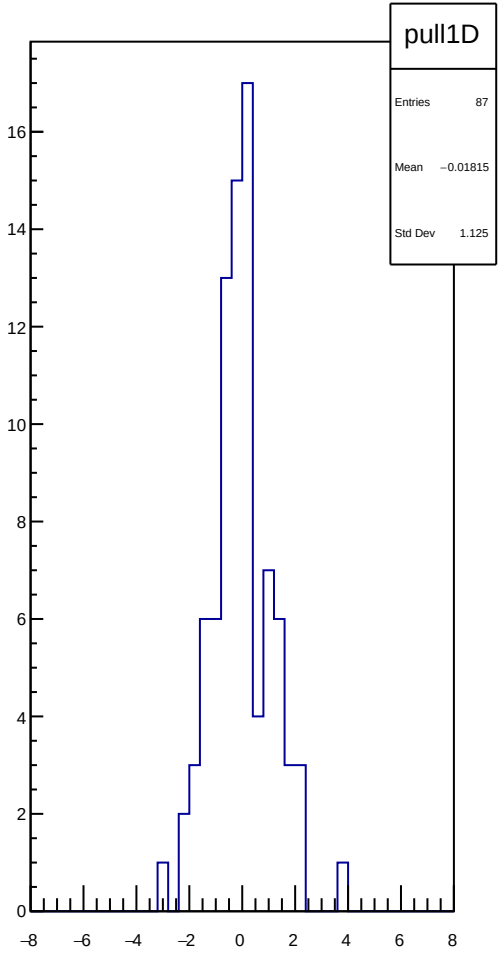

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.935e+05 / 86
p0 3.194e−11 ± 3.321e−14
0.25
0.2
0.15
0.1
0.05

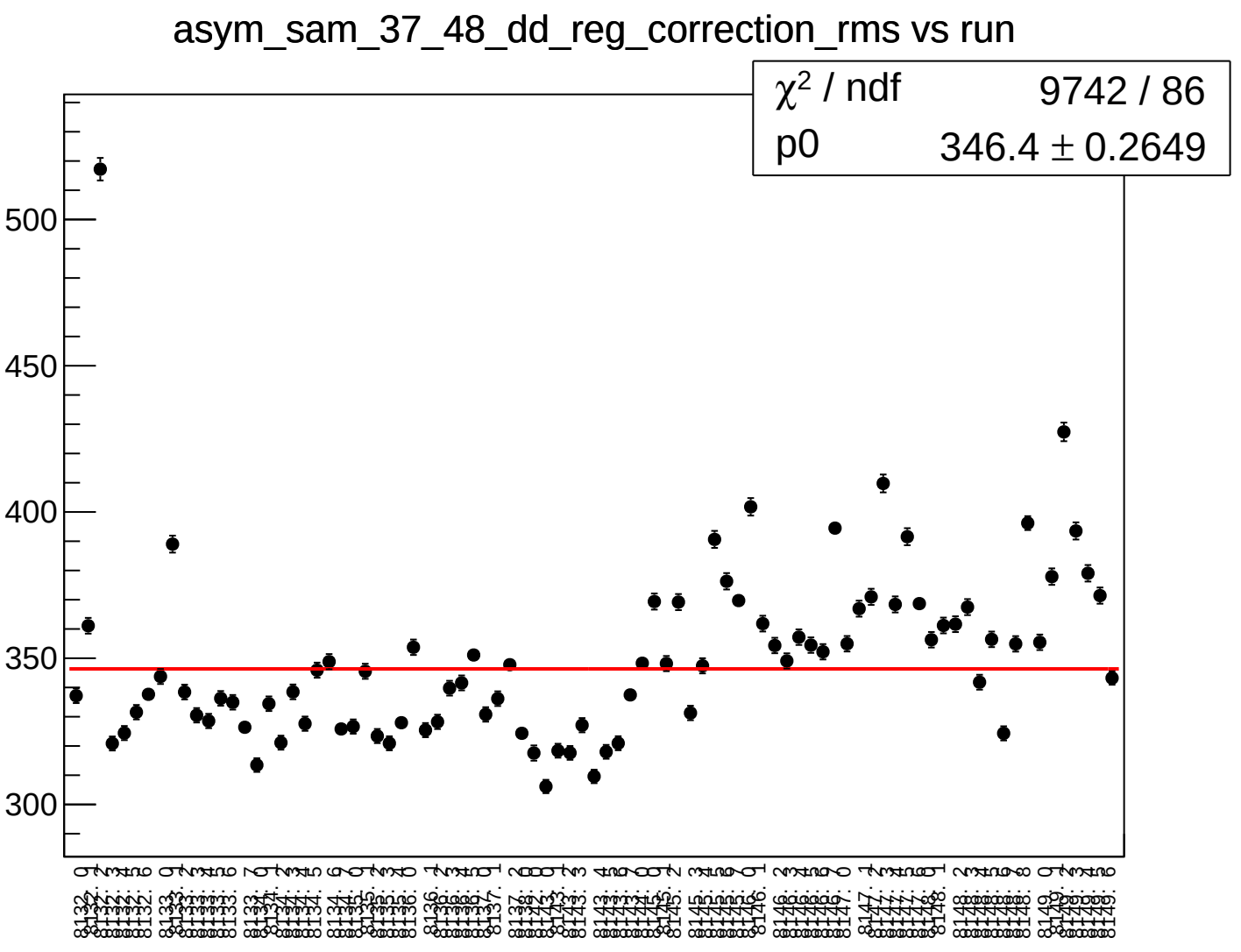

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 126.4 / 86
p0 −20.18 ± 64.54
pull
Entries 87
Mean 18.2
Std Dev 28.53

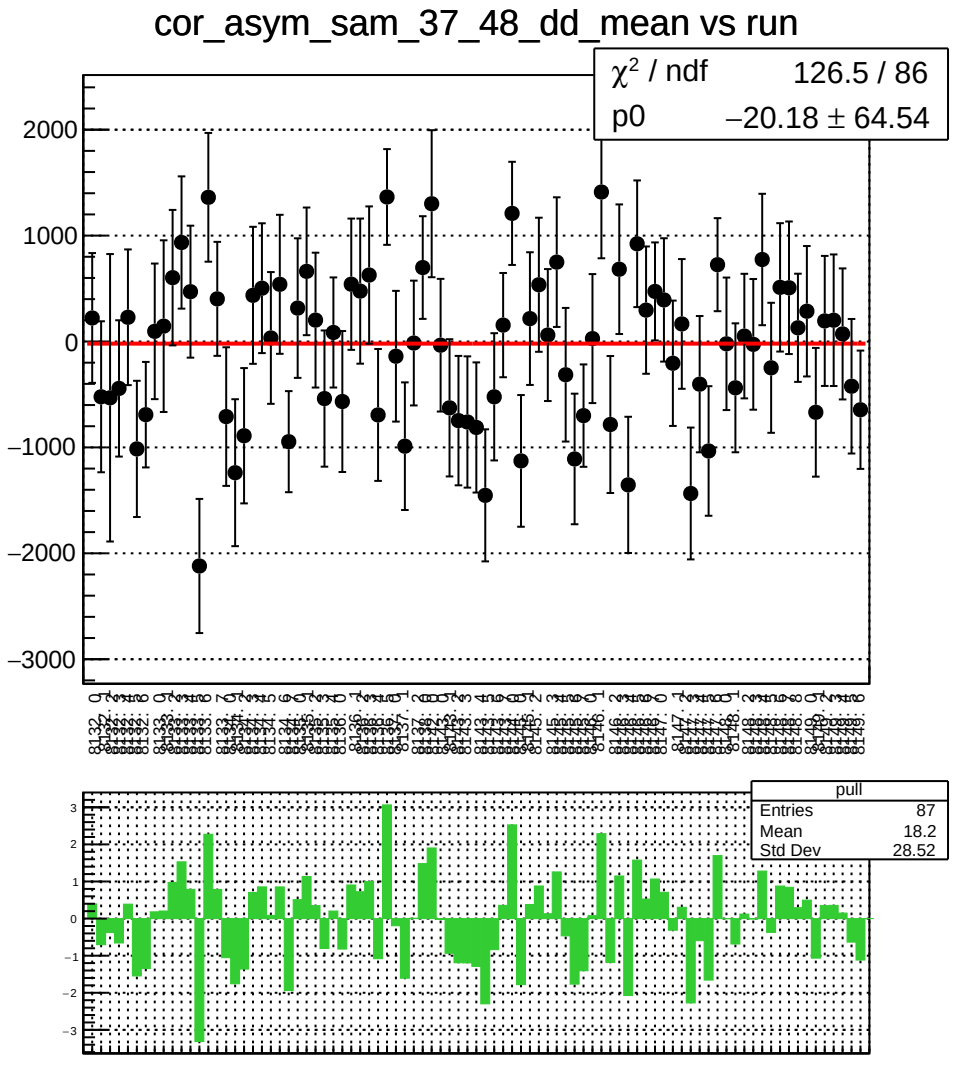

pull1D
Entries 87
Mean −0.03149
Std Dev 1.205

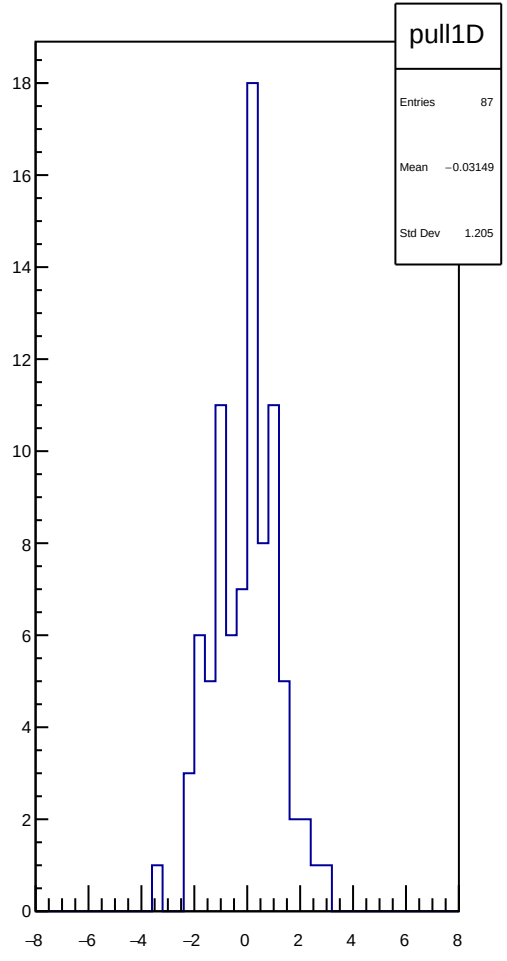

reg_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 7971 / 86
p0 59.69 ± 0.04563
130
120
110
100
90
80
70
60
50

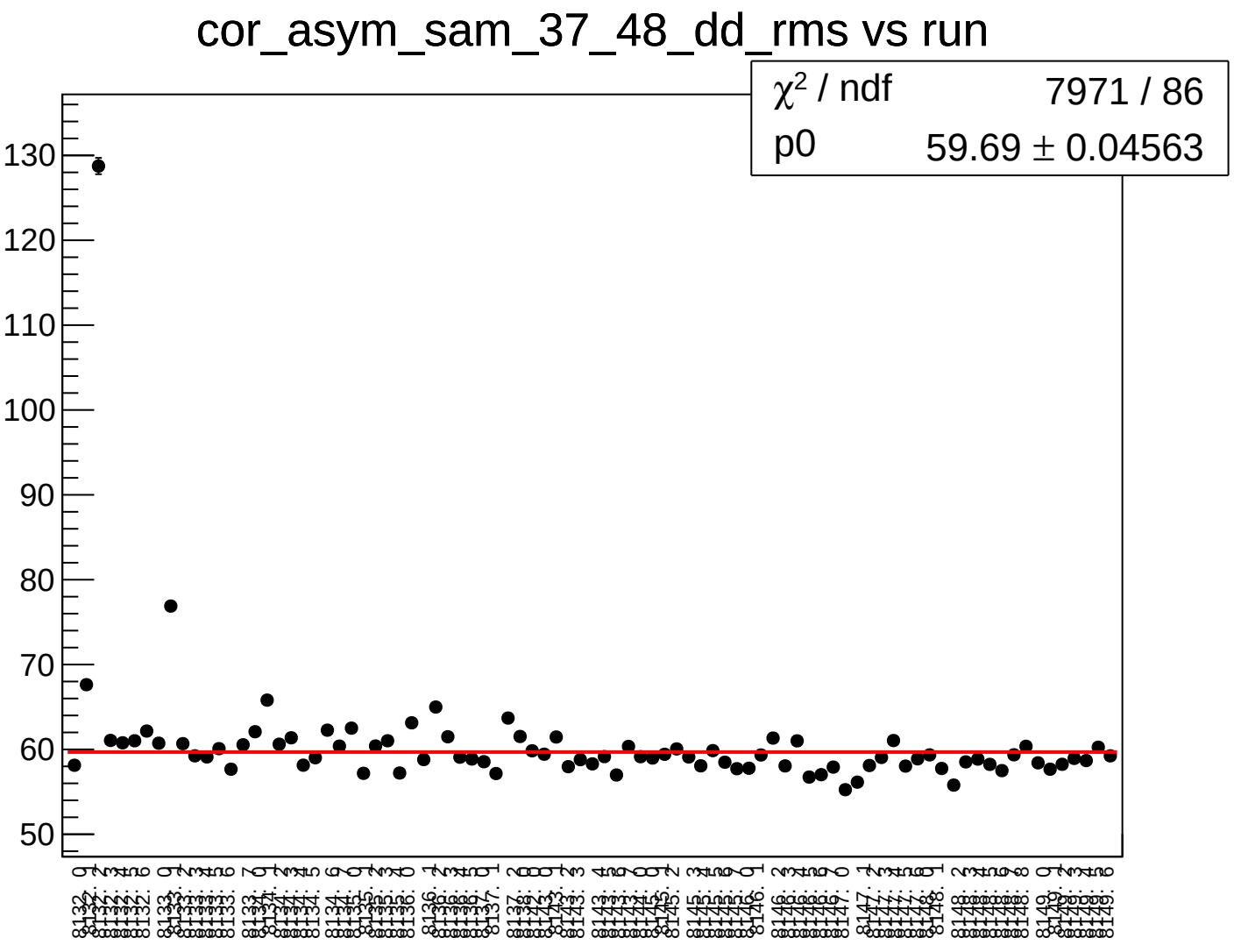

asym_sam_37_48_dd_reg_correction_mean vs run
χ² / ndf 110.2 / 86
p0 550.3 ± 374.7
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean 436.1
Std Dev 0
4
3
2
1
0
−1
−2
−3

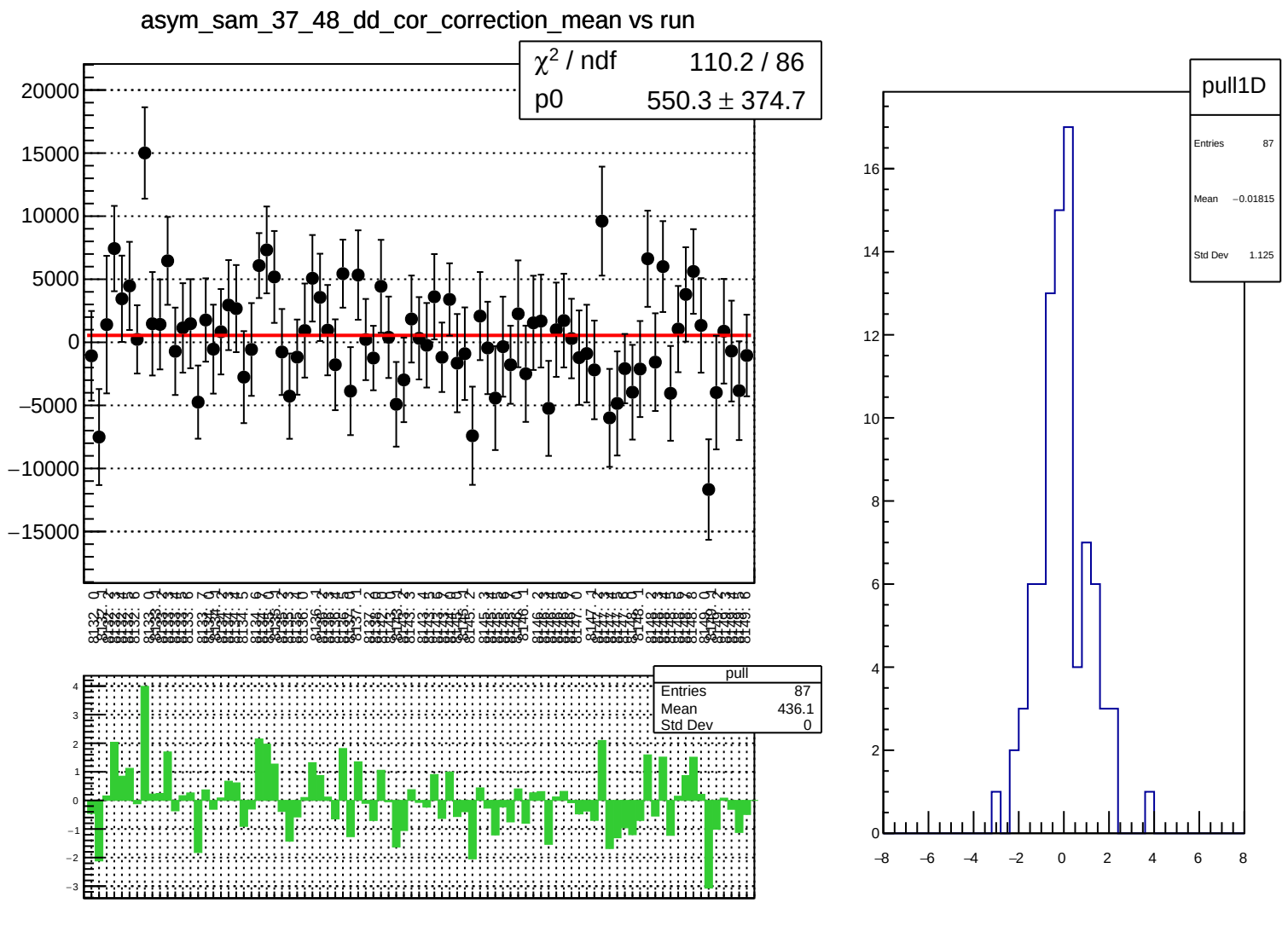

pull1D
Entries 87
Mean −0.01815
Std Dev 1.125
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

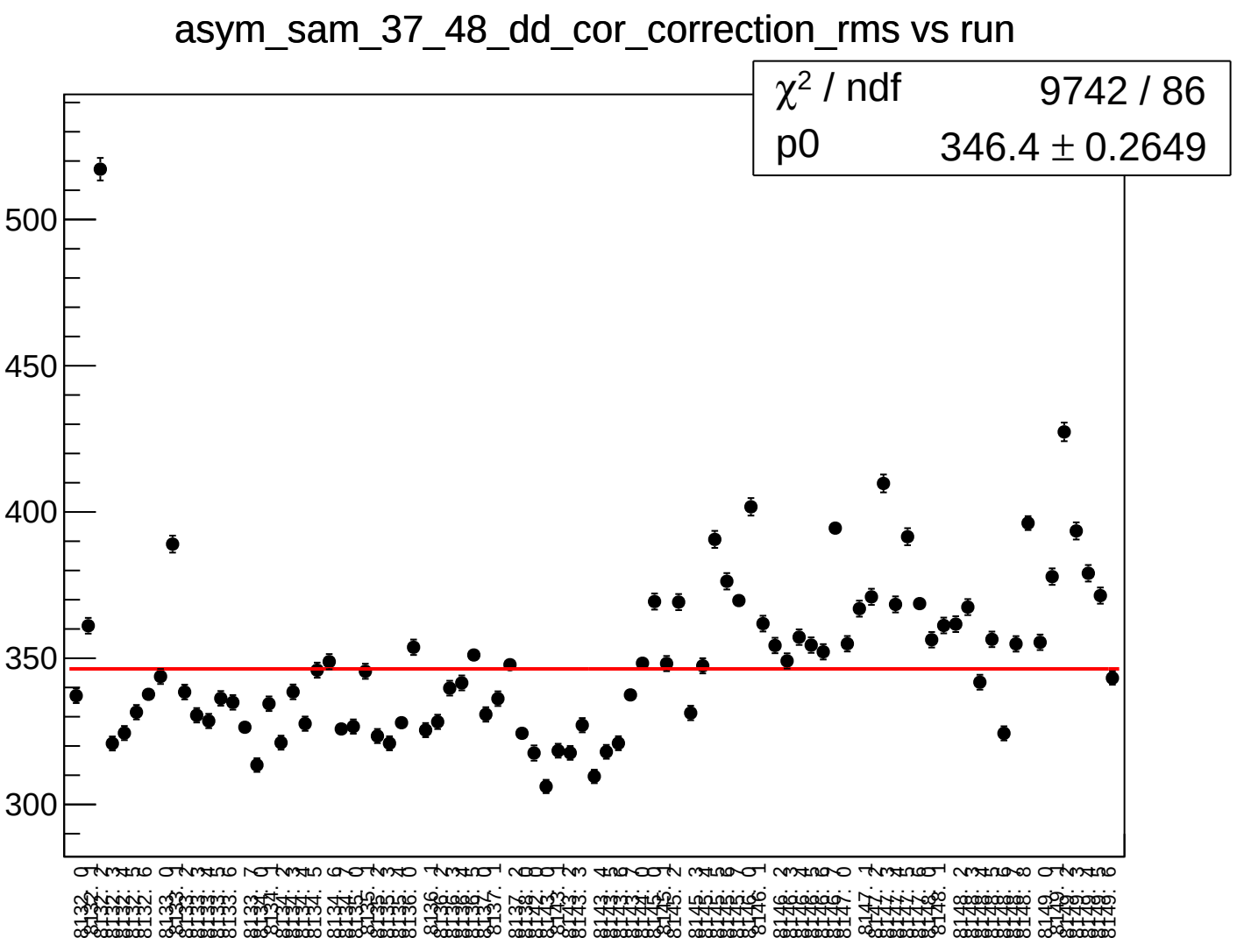

asym_sam_37_48_dd_reg_correction_rms vs run
χ² / ndf 9742 / 86
p0 346.4 ± 0.2649
500
450
400
350
300

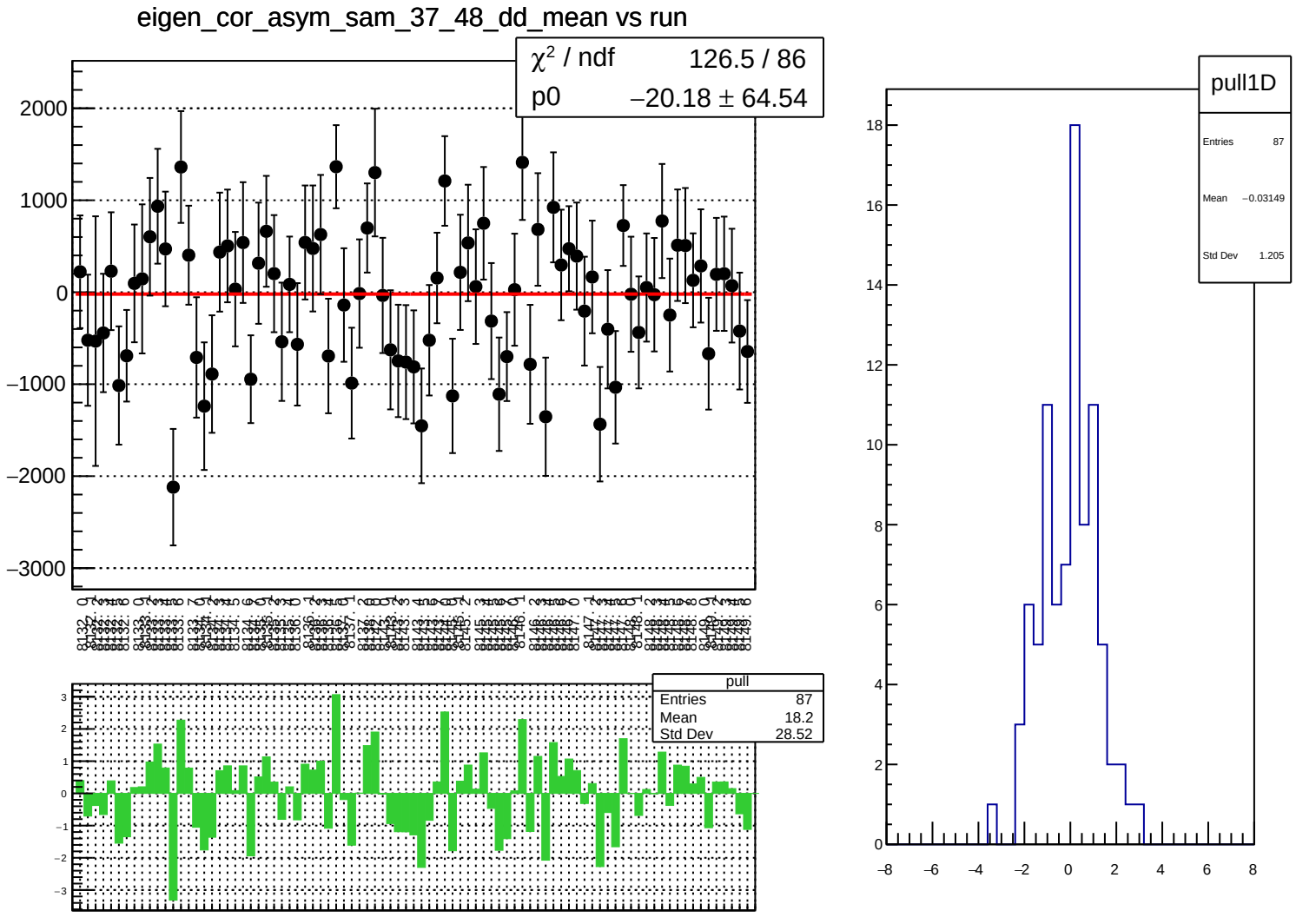

cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 126.5 / 86
p0 −20.18 ± 64.54
2000
1000
0
−1000
−2000
−3000
pull
Entries 87
Mean 18.2
Std Dev 28.52
3
2
1
0
−1
−2
−3

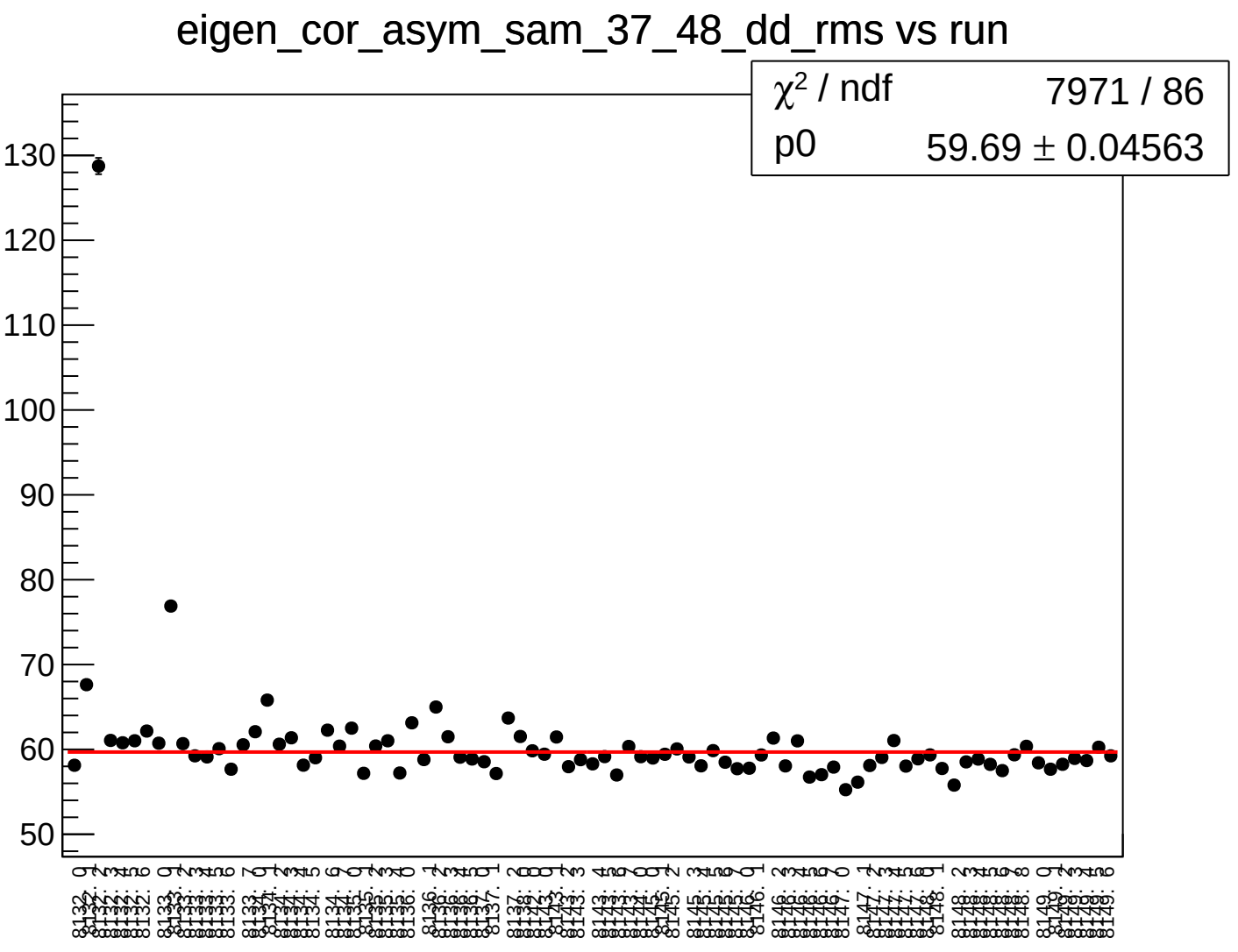

pull1D
Entries 87
Mean −0.03149
Std Dev 1.205
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

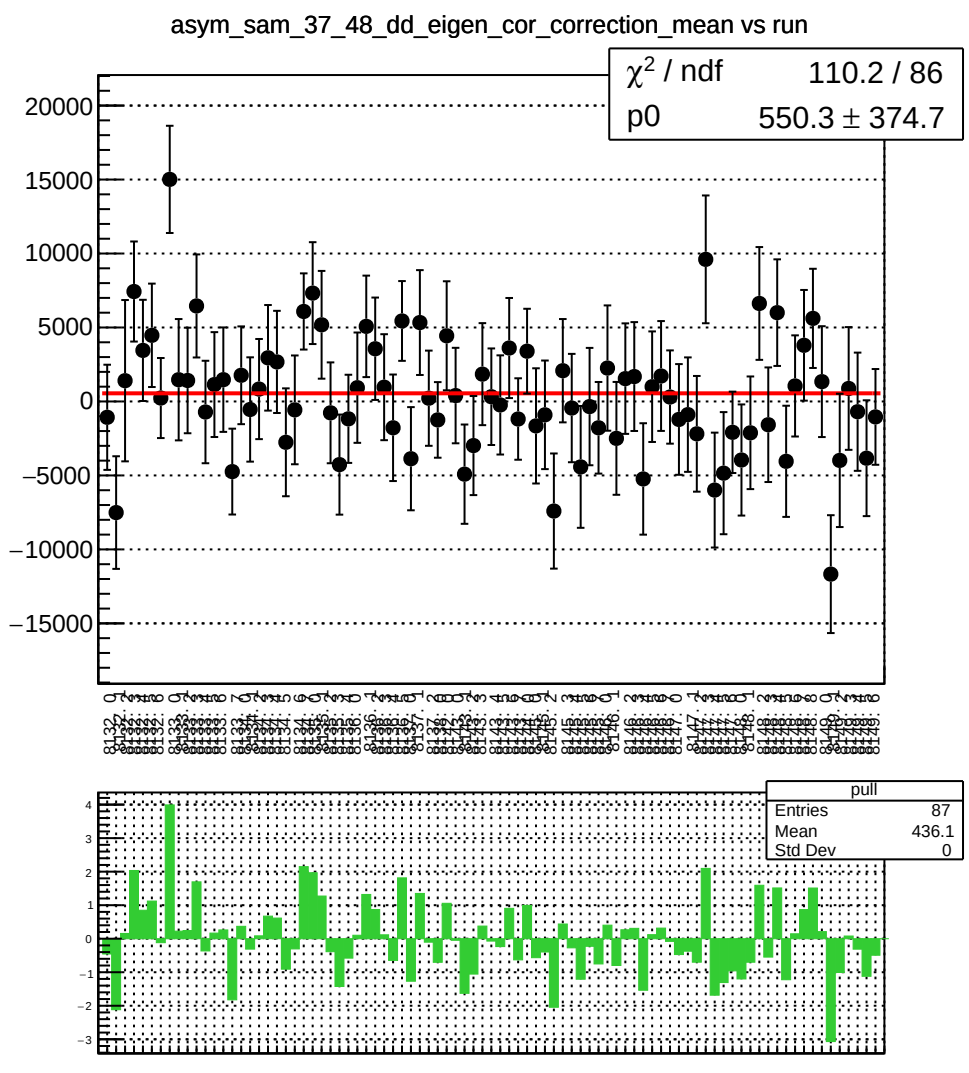

cor_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 7971 / 86
p0 59.69 ± 0.04563
130
120
110
100
90
80
70
60
50

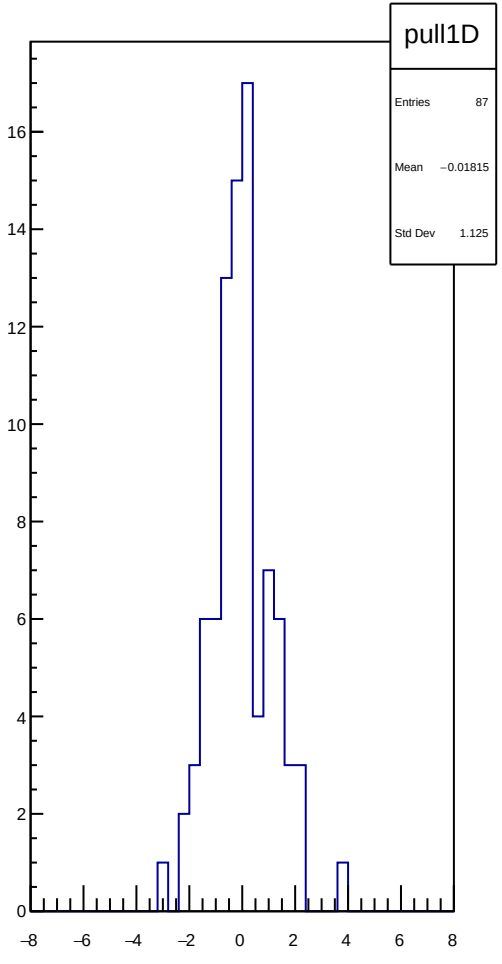

asym_sam_37_48_dd_cor_correction_mean vs run
χ² / ndf 110.2 / 86
p0 550.3 ± 374.7
pull
Entries 87
Mean 436.1
Std Dev 0
pull1D
Entries 87
Mean −0.01815
Std Dev 1.125

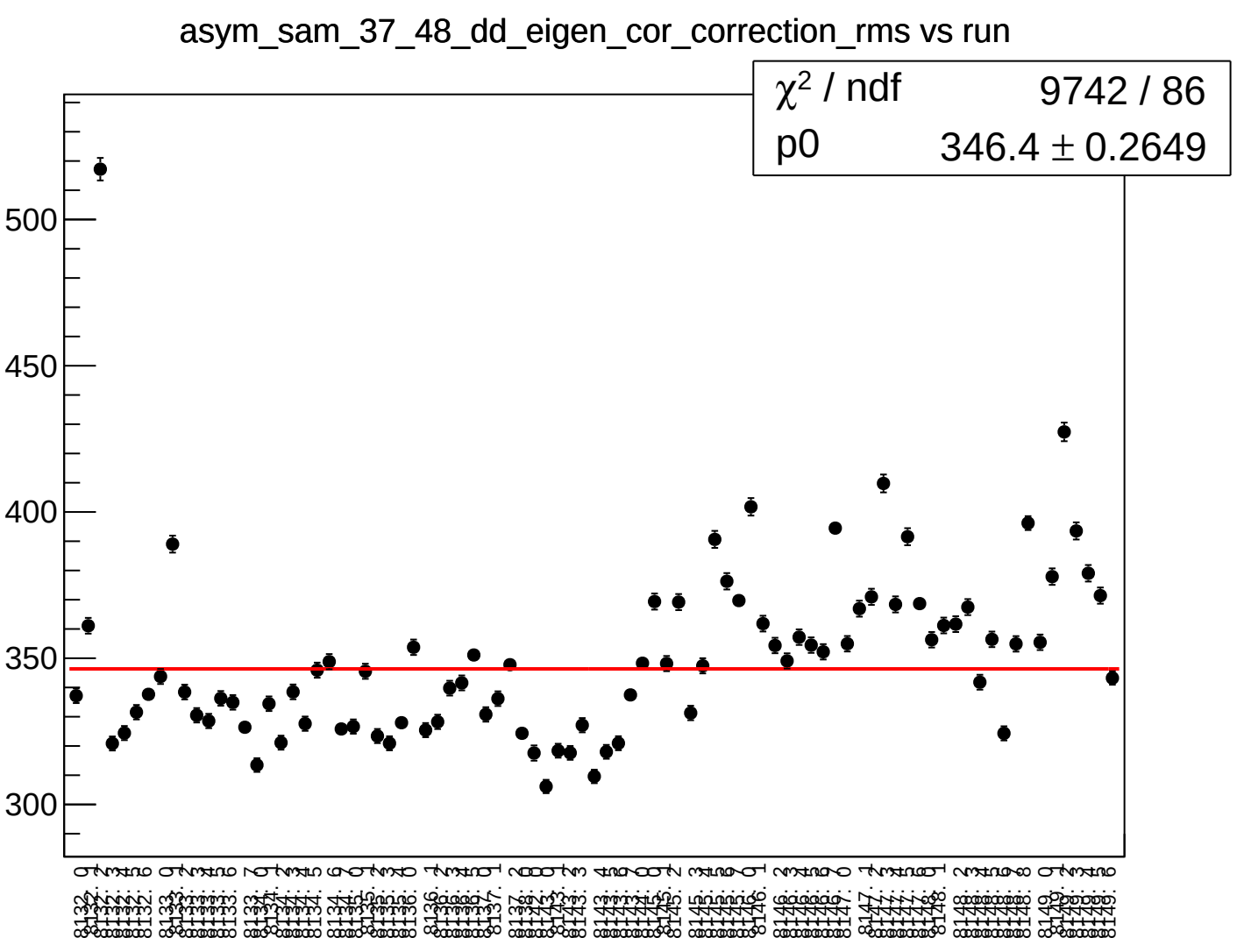

asym_sam_37_48_dd_cor_correction_rms vs run
χ² / ndf 9742 / 86
p0 346.4 ± 0.2649
500
450
400
350
300

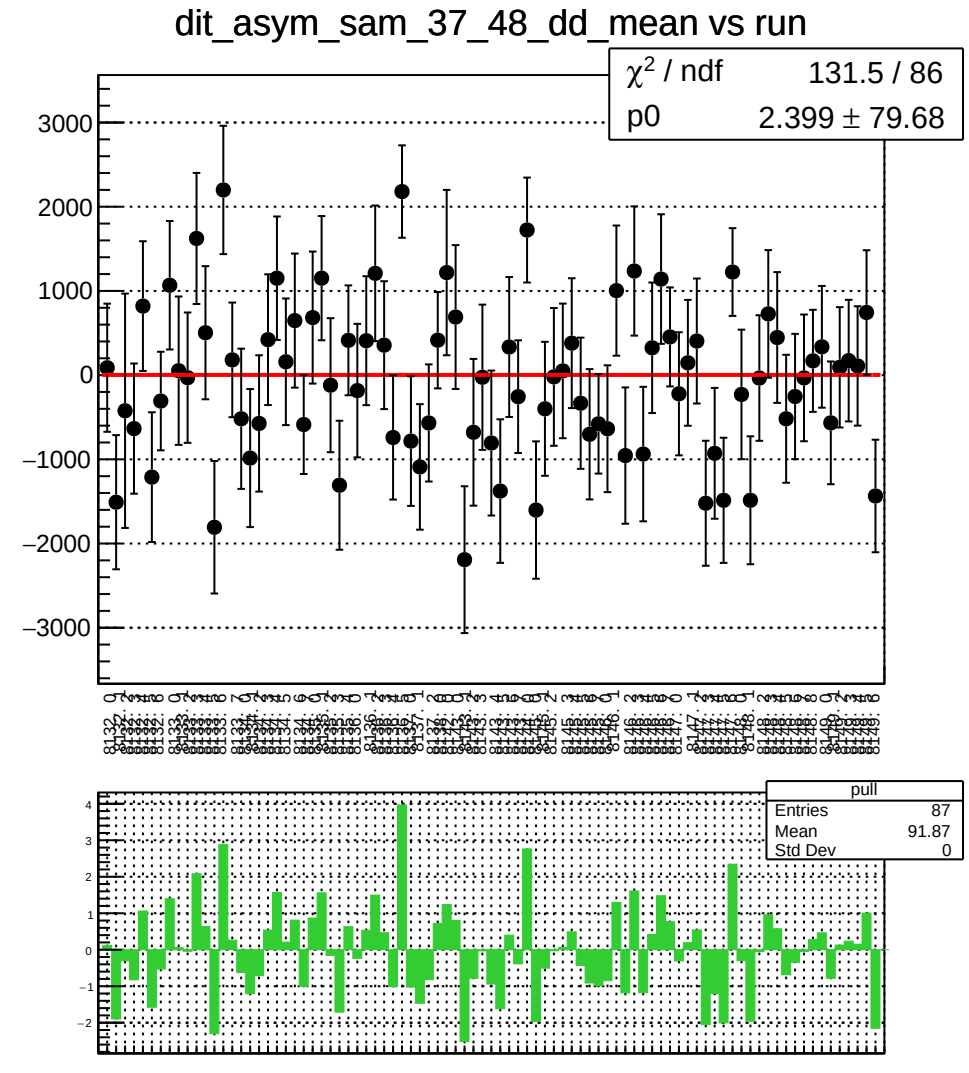

eigen_cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 126.5 / 86
p0 −20.18 ± 64.54
2000
1000
0
−1000
−2000
−3000
pull
Entries 87
Mean 18.2
Std Dev 28.52
pull1D
Entries 87
Mean −0.03149
Std Dev 1.205
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

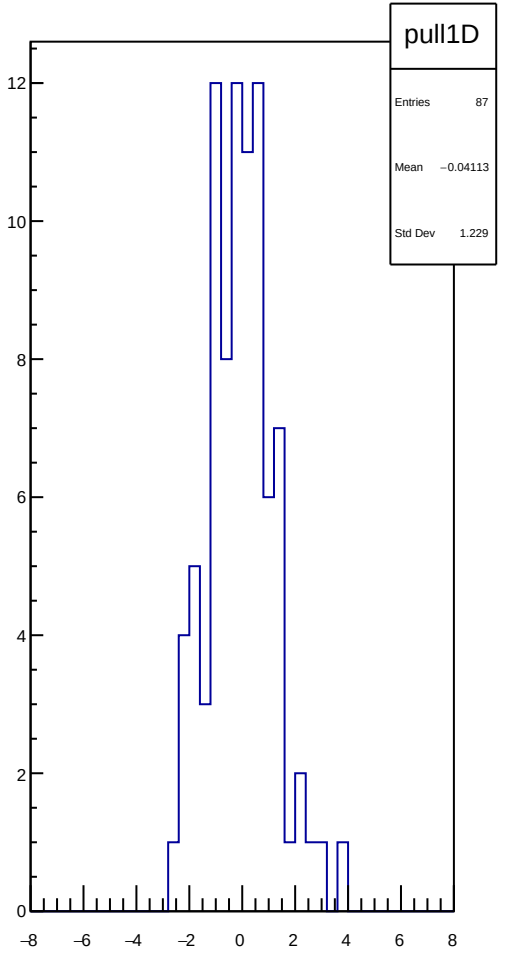

eigen_cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 7971 / 86
p0 59.69 ± 0.04563
130
120
110
100
90
80
70
60
50

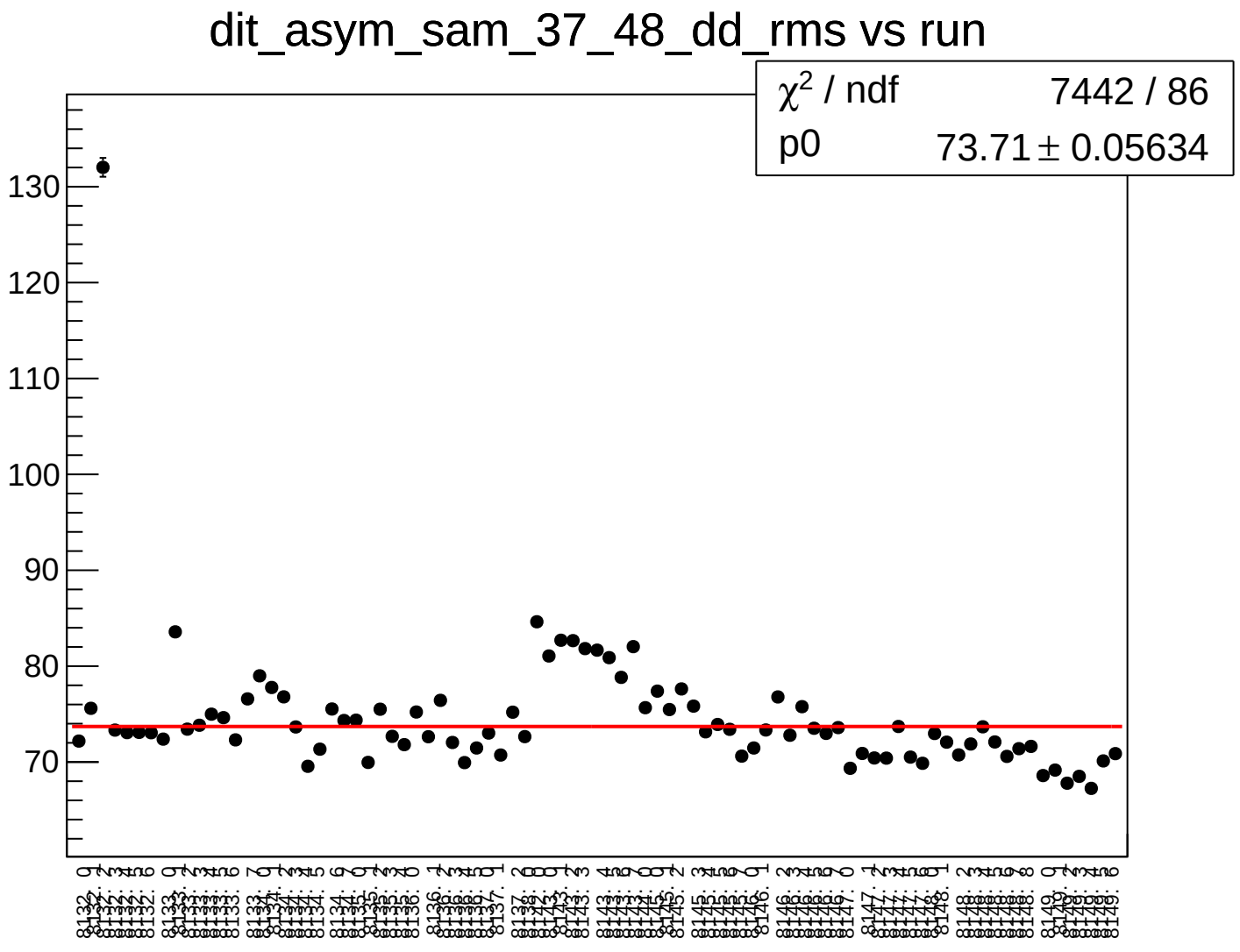

asym_sam_37_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 110.2 / 86
p0 550.3 ± 374.7
pull
Entries 87
Mean 436.1
Std Dev 0

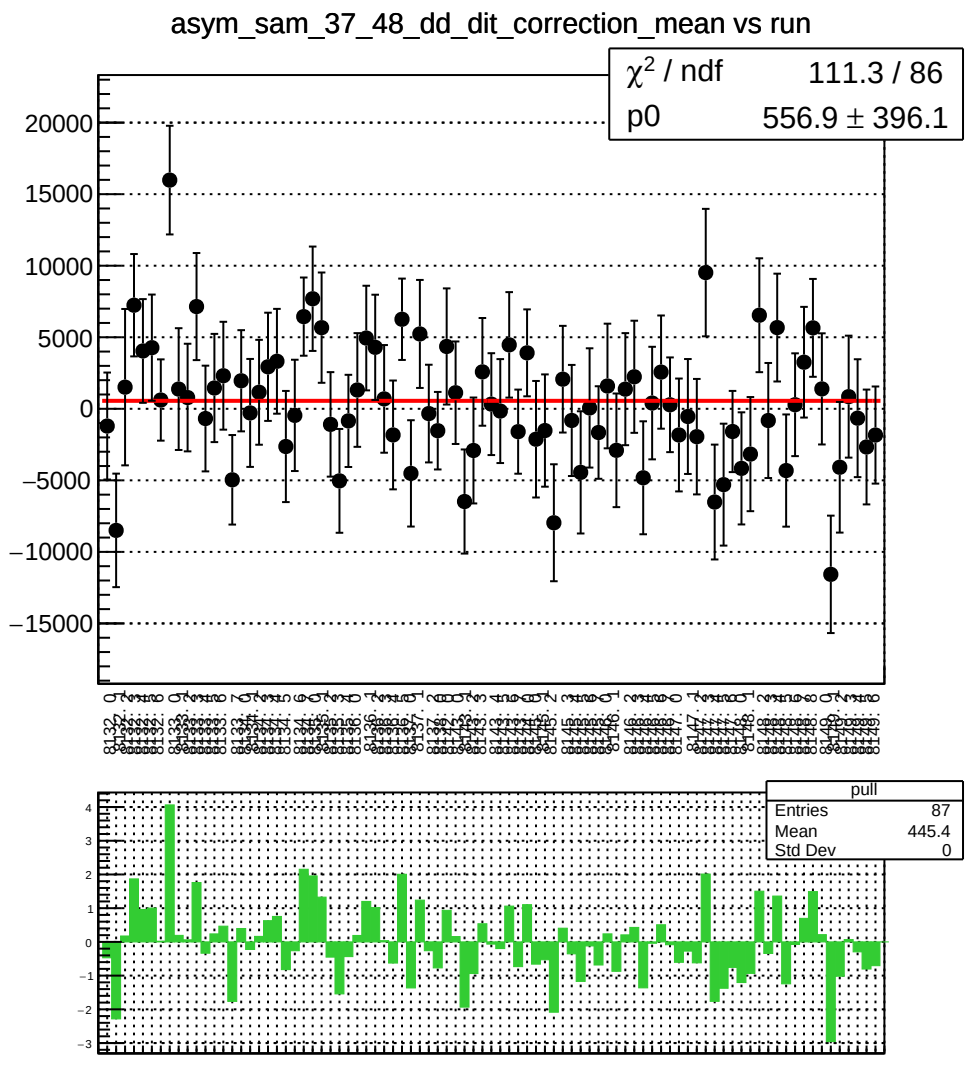

pull1D
Entries 87
Mean −0.01815
Std Dev 1.125

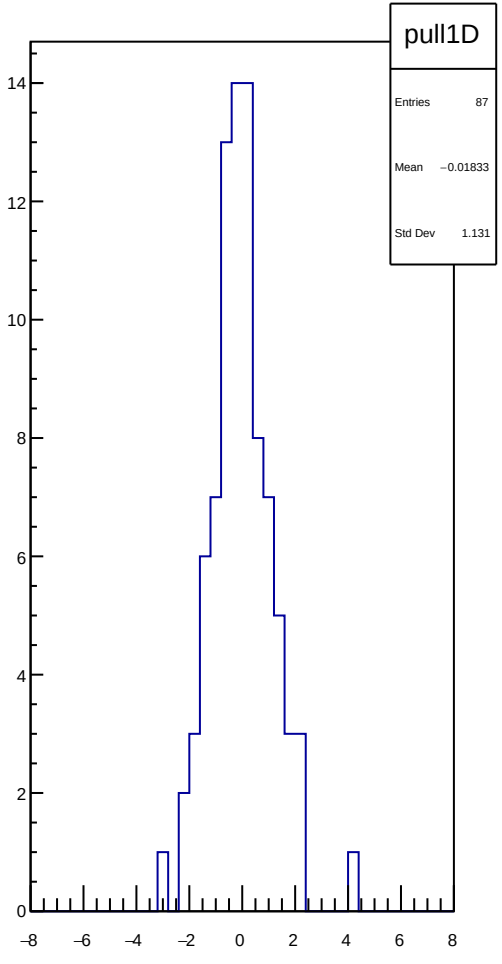

asym_sam_37_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 9742 / 86
p0 346.4 ± 0.2649
500
450
400
350
300

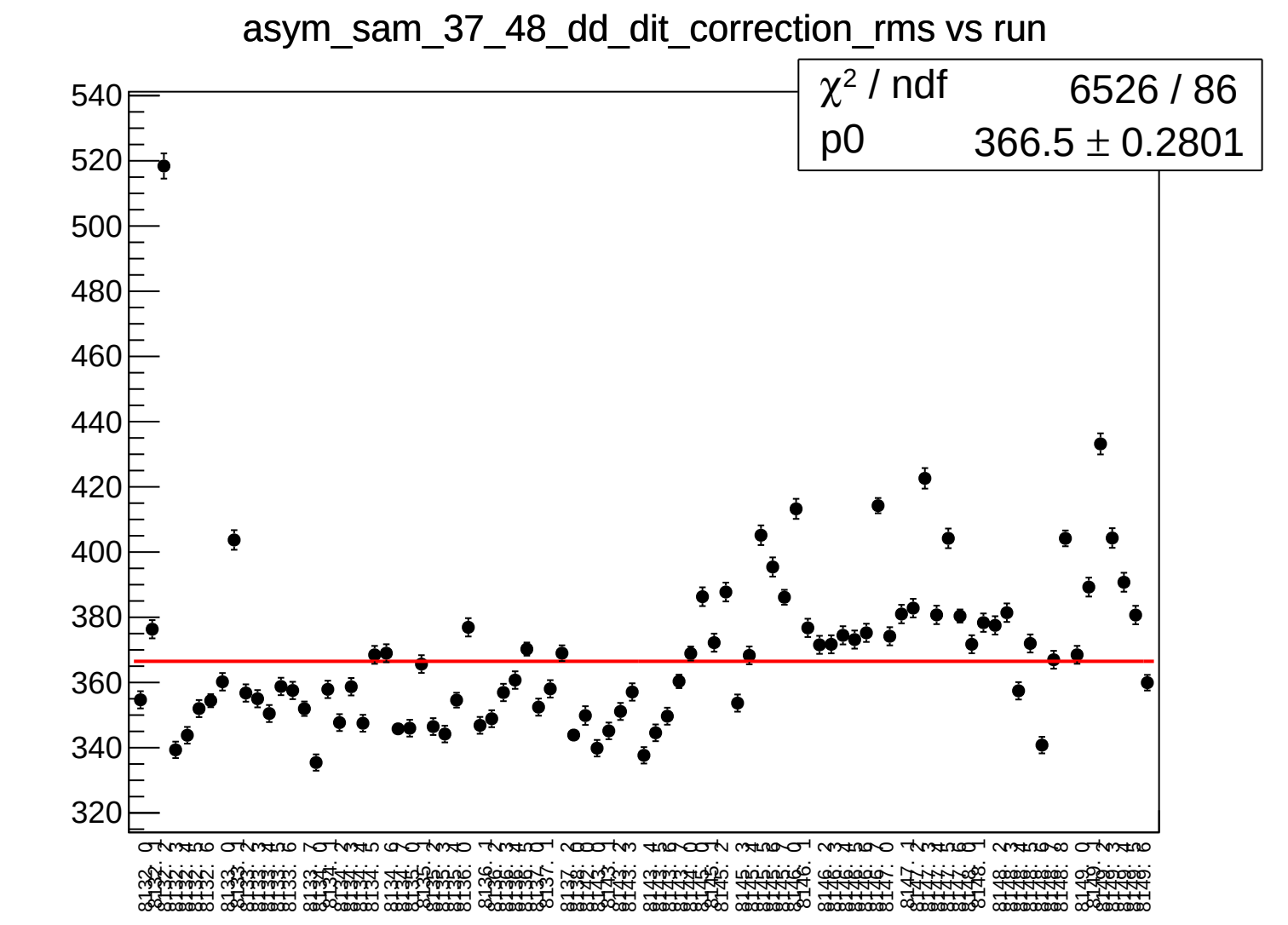

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 131.5 / 86
p0 2.399 ± 79.68
pull
Entries 87
Mean 91.87
Std Dev 0

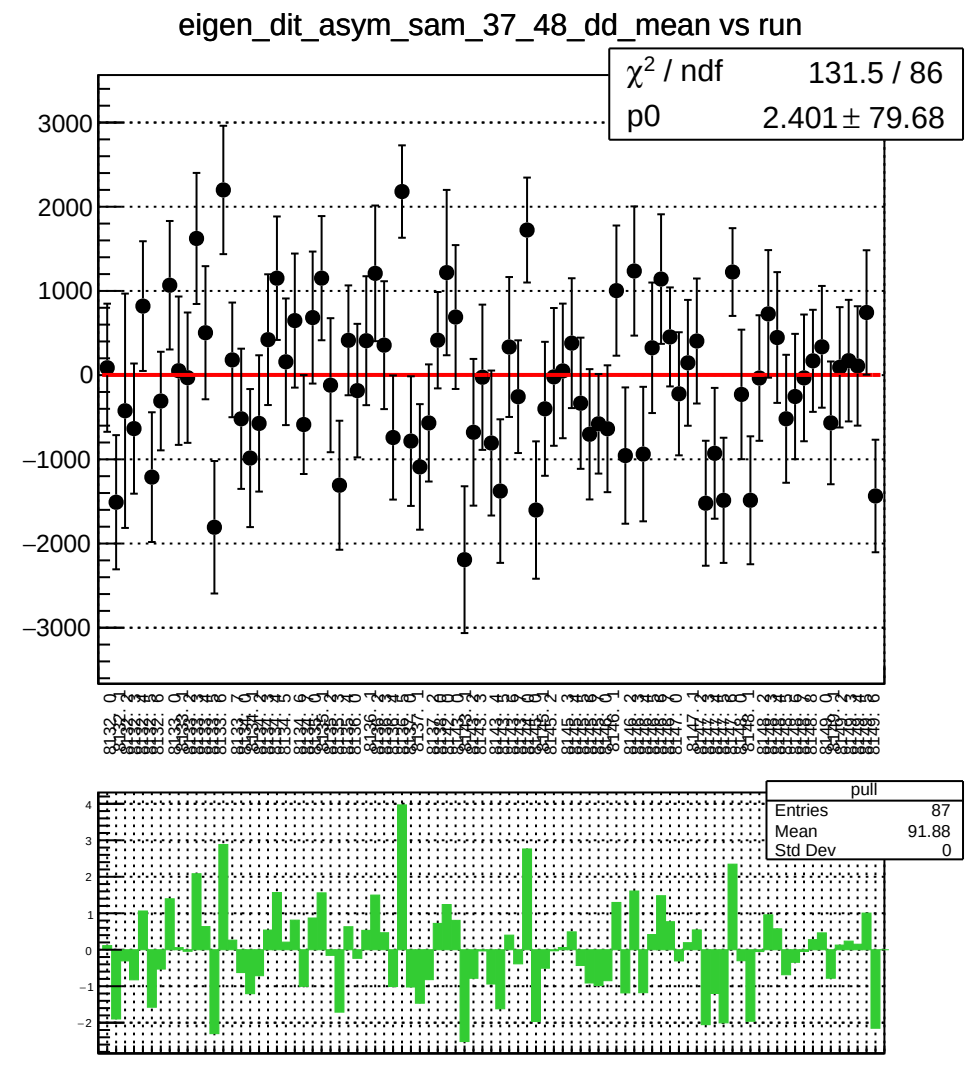

pull1D
Entries 87
Mean −0.04113
Std Dev 1.229

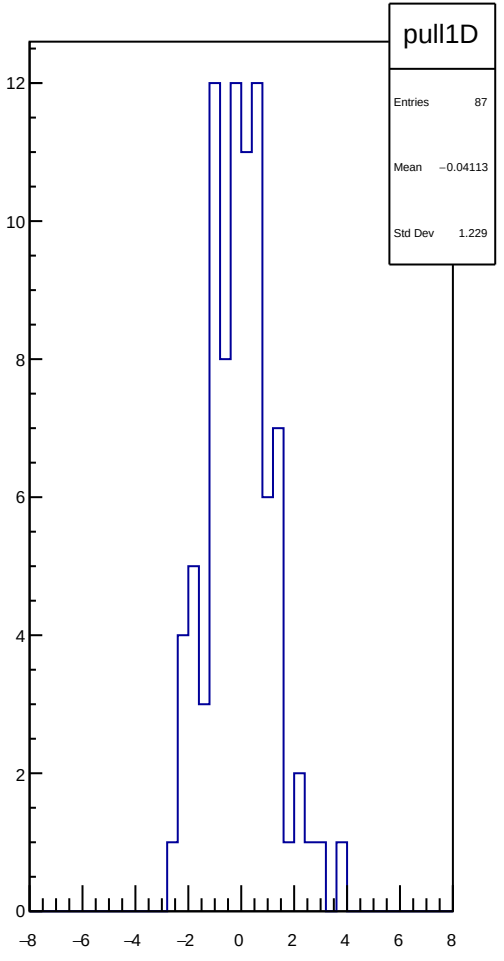

dit_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 7442 / 86
p0 73.71 ± 0.05634
130
120
110
100
90
80
70

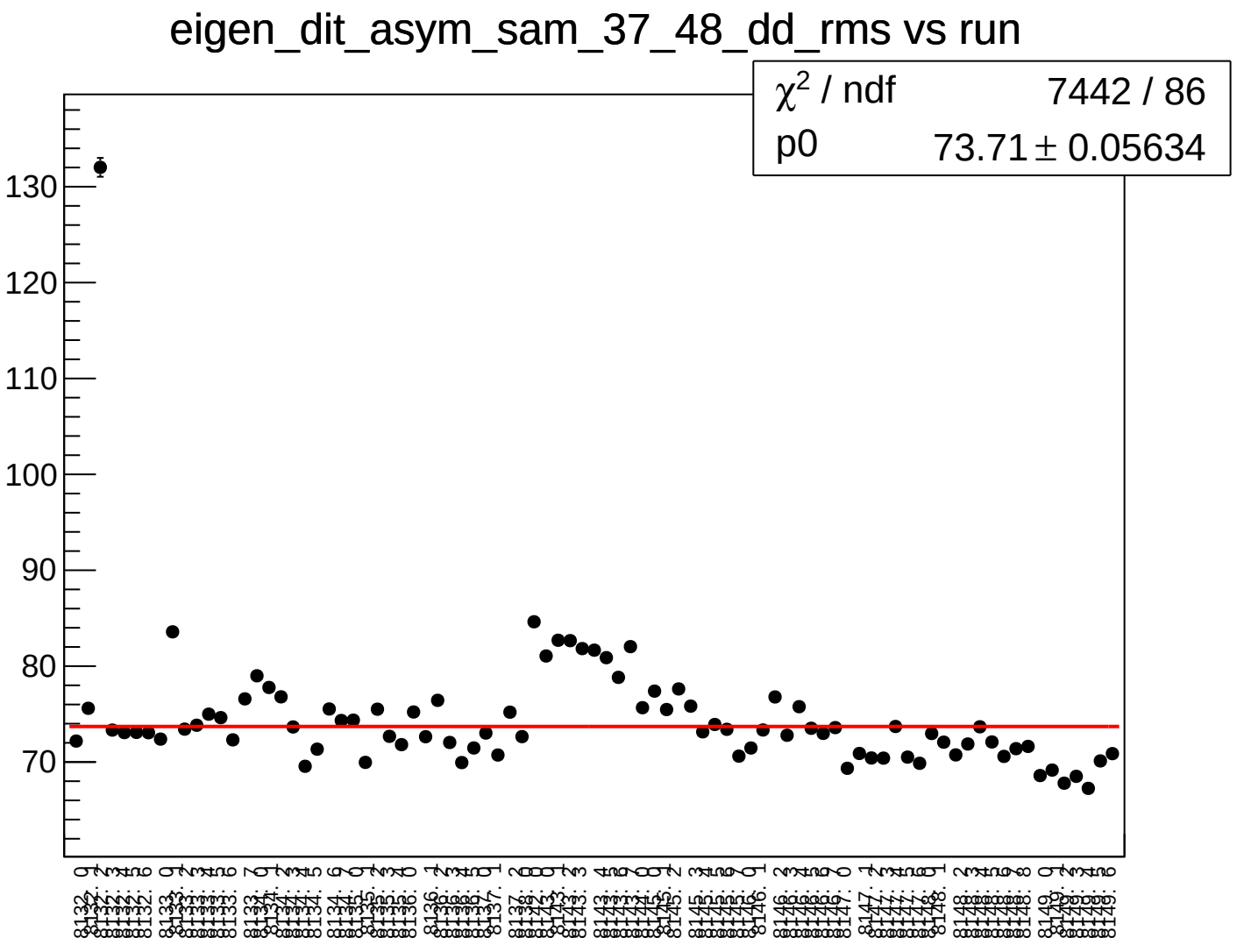

asym_sam_37_48_dd_dit_correction_mean vs run
χ² / ndf 111.3 / 86
p0 556.9 ± 396.1
pull
Entries 87
Mean 445.4
Std Dev 0

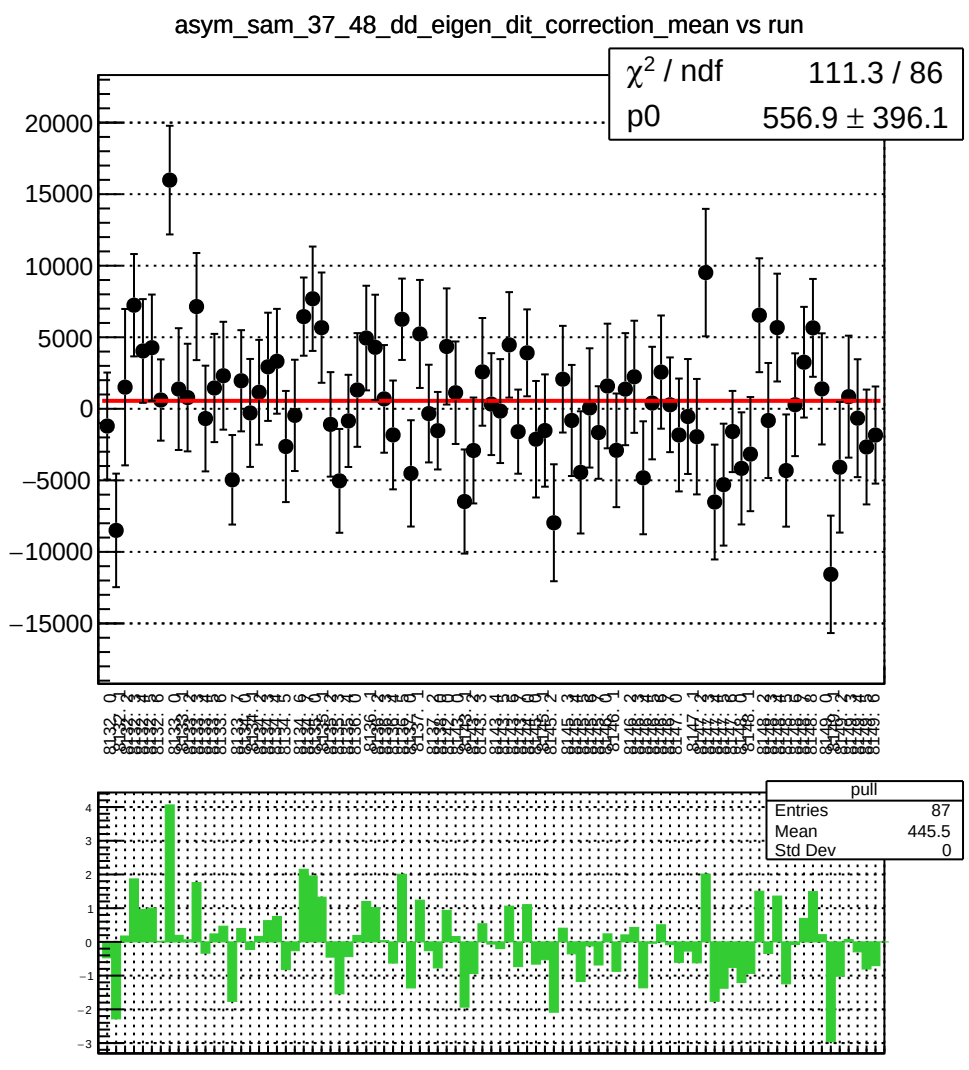

pull1D
Entries 87
Mean −0.01833
Std Dev 1.131

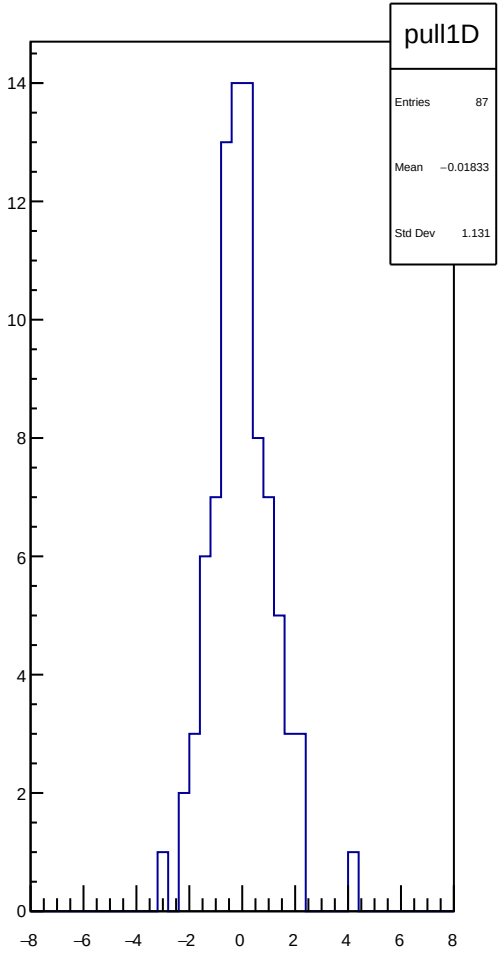

asym_sam_37_48_dd_dit_correction_rms vs run
χ² / ndf 6526 / 86
p0 366.5 ± 0.2801
540
520
500
480
460
440
420
400
380
360
340
320

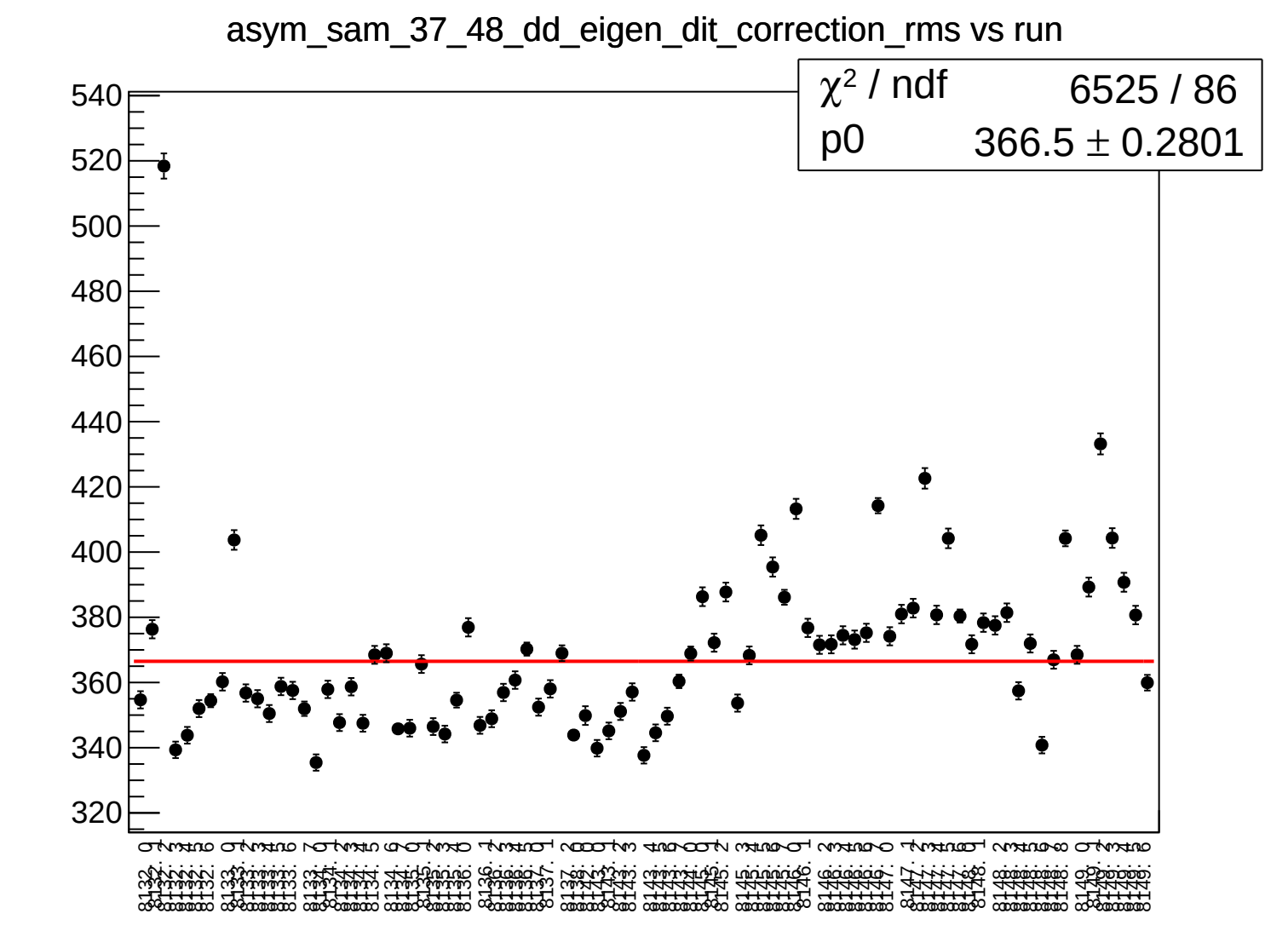

eigen_dit_asym_sam_37_48_dd_mean vs run
χ^2 / ndf 131.5 / 86
p0 2.401 ± 79.68
pull
Entries 87
Mean 91.88
Std Dev 0

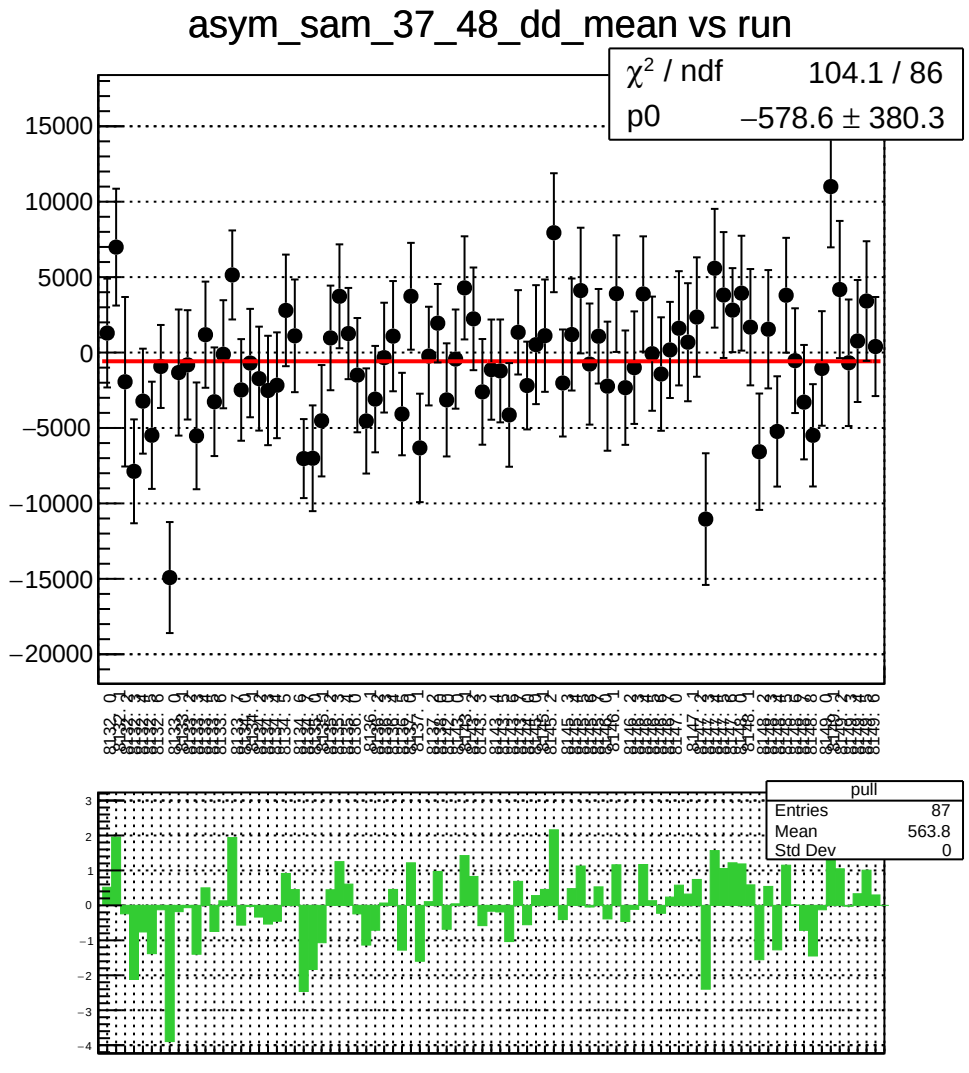

pull1D
Entries 87
Mean −0.04113
Std Dev 1.229

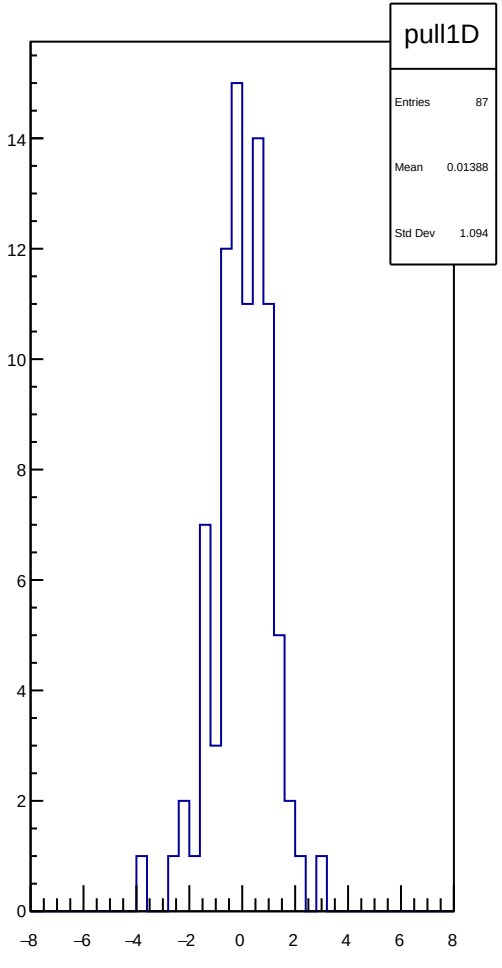

eigen_dit_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 7442 / 86
p0 73.71 ± 0.05634
130
120
110
100
90
80
70

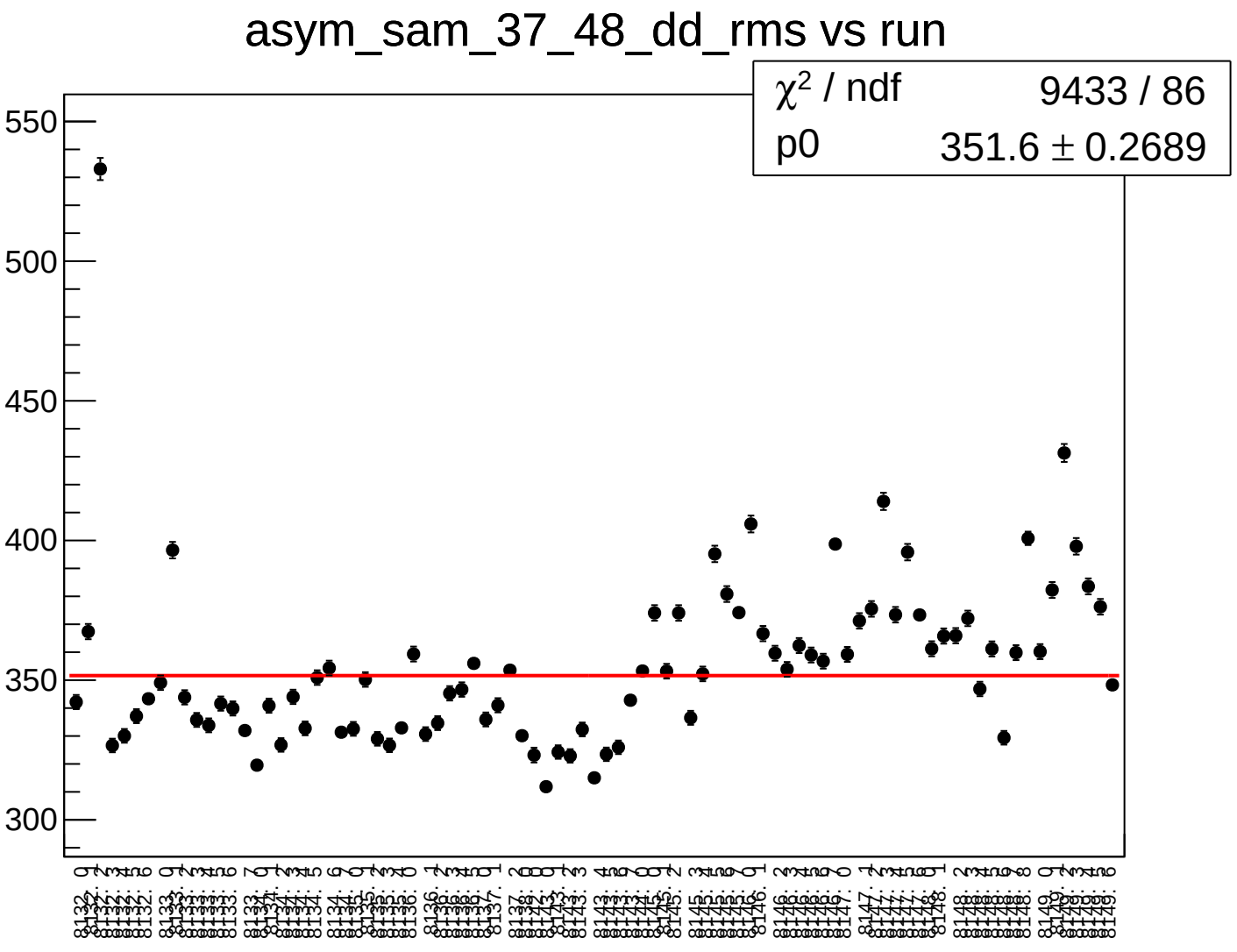

asym_sam_37_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 111.3 / 86
p0 556.9 ± 396.1
pull
Entries 87
Mean 445.5
Std Dev 0

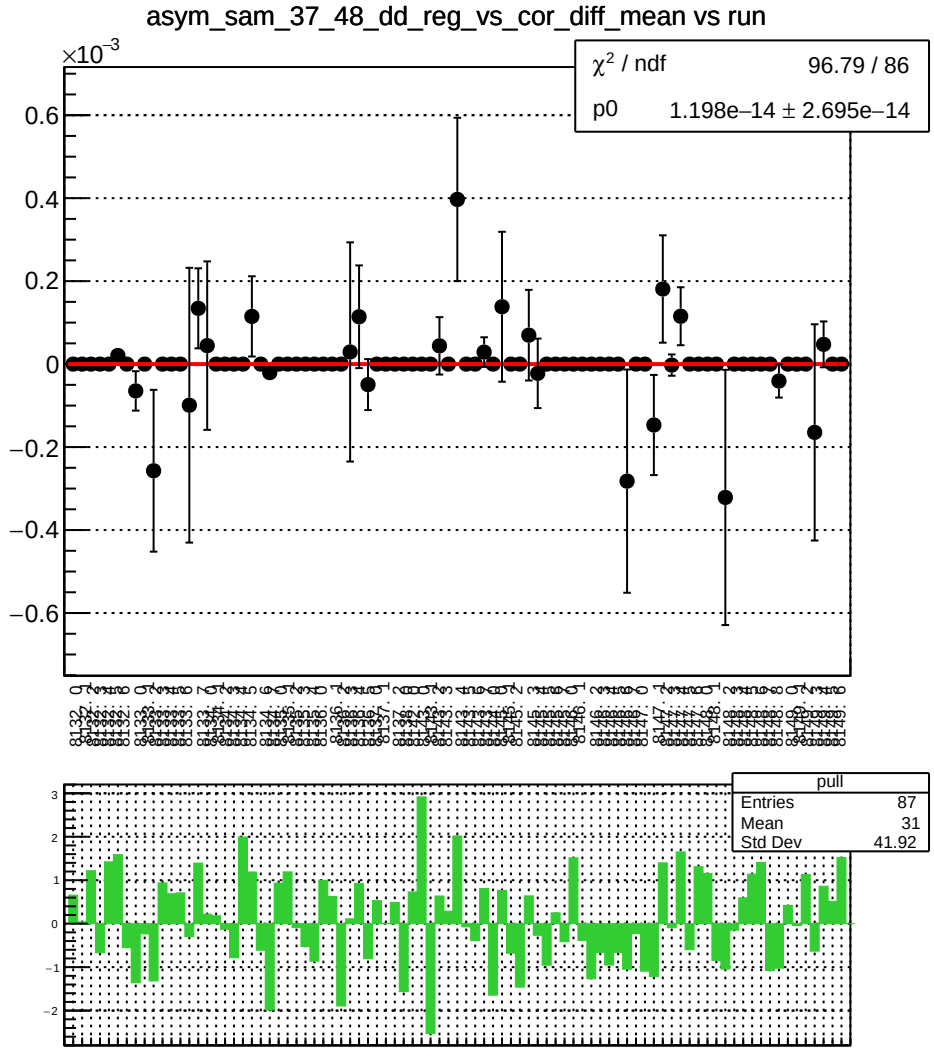

pull1D
Entries 87
Mean −0.01833
Std Dev 1.131

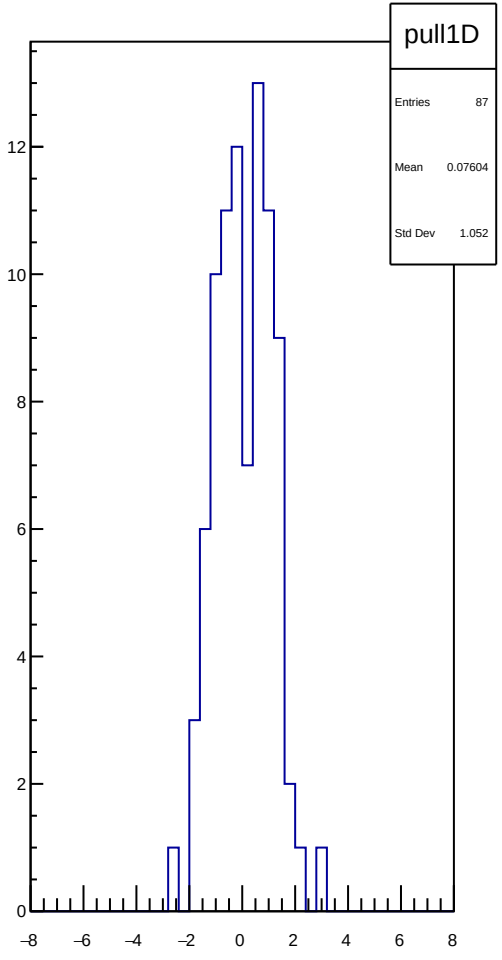

asym_sam_37_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 6525 / 86
p0 366.5 ± 0.2801
540
520
500
480
460
440
420
400
380
360
340
320

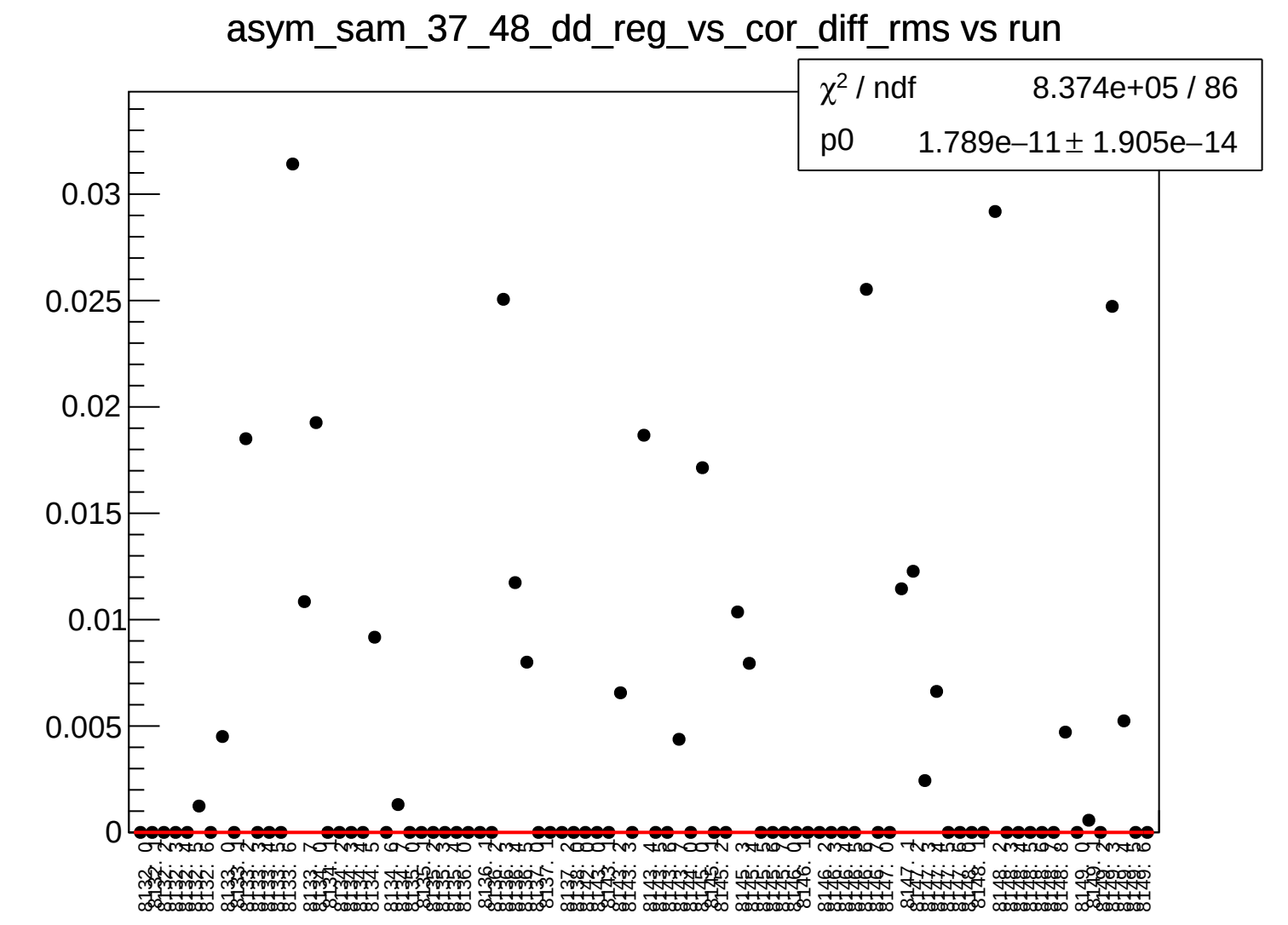

asym_sam_37_48_dd_mean vs run
χ² / ndf 104.1 / 86
p0 −578.6 ± 380.3
pull
Entries 87
Mean 563.8
Std Dev 0

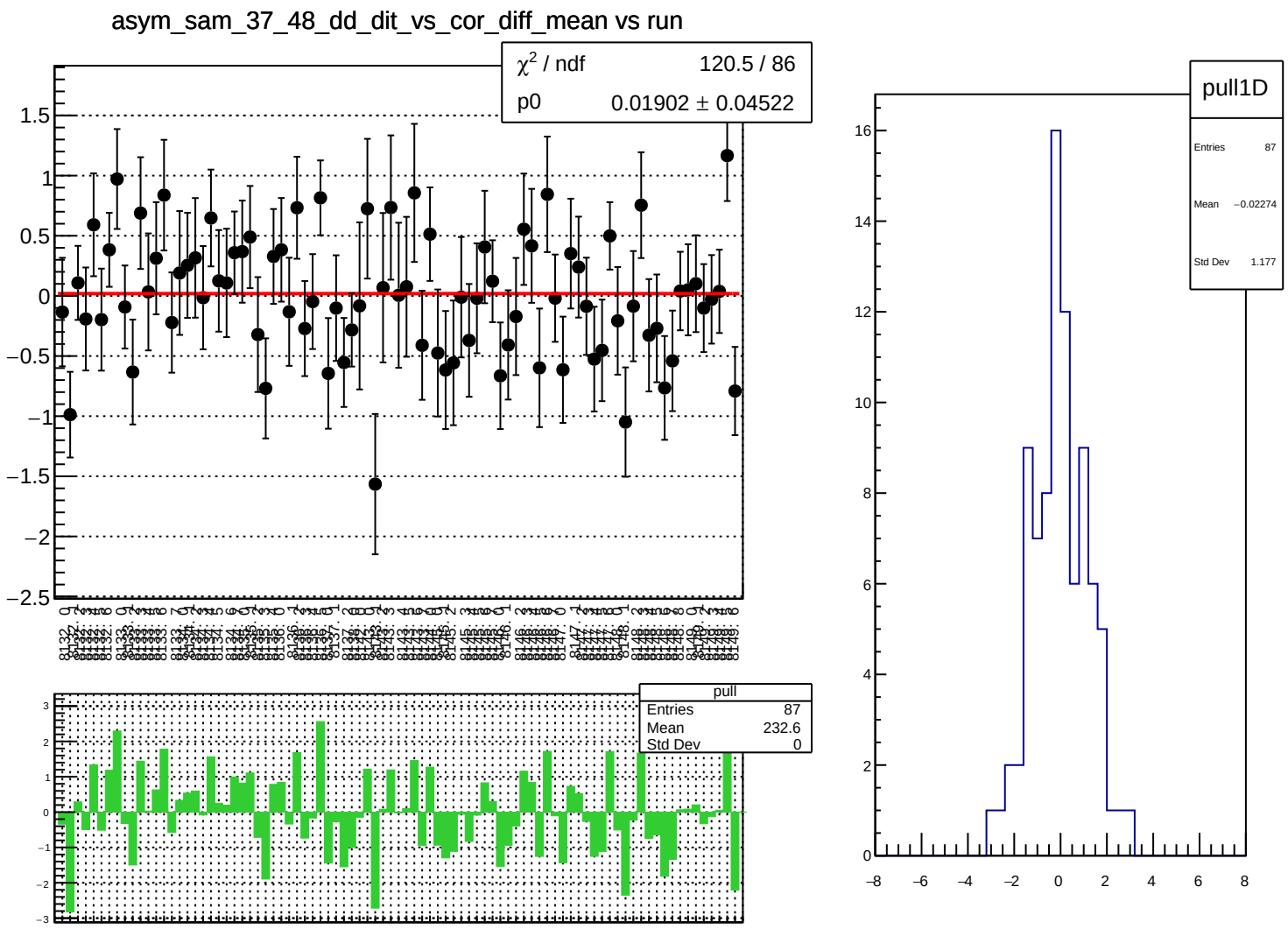

pull1D
Entries 87
Mean 0.01388
Std Dev 1.094

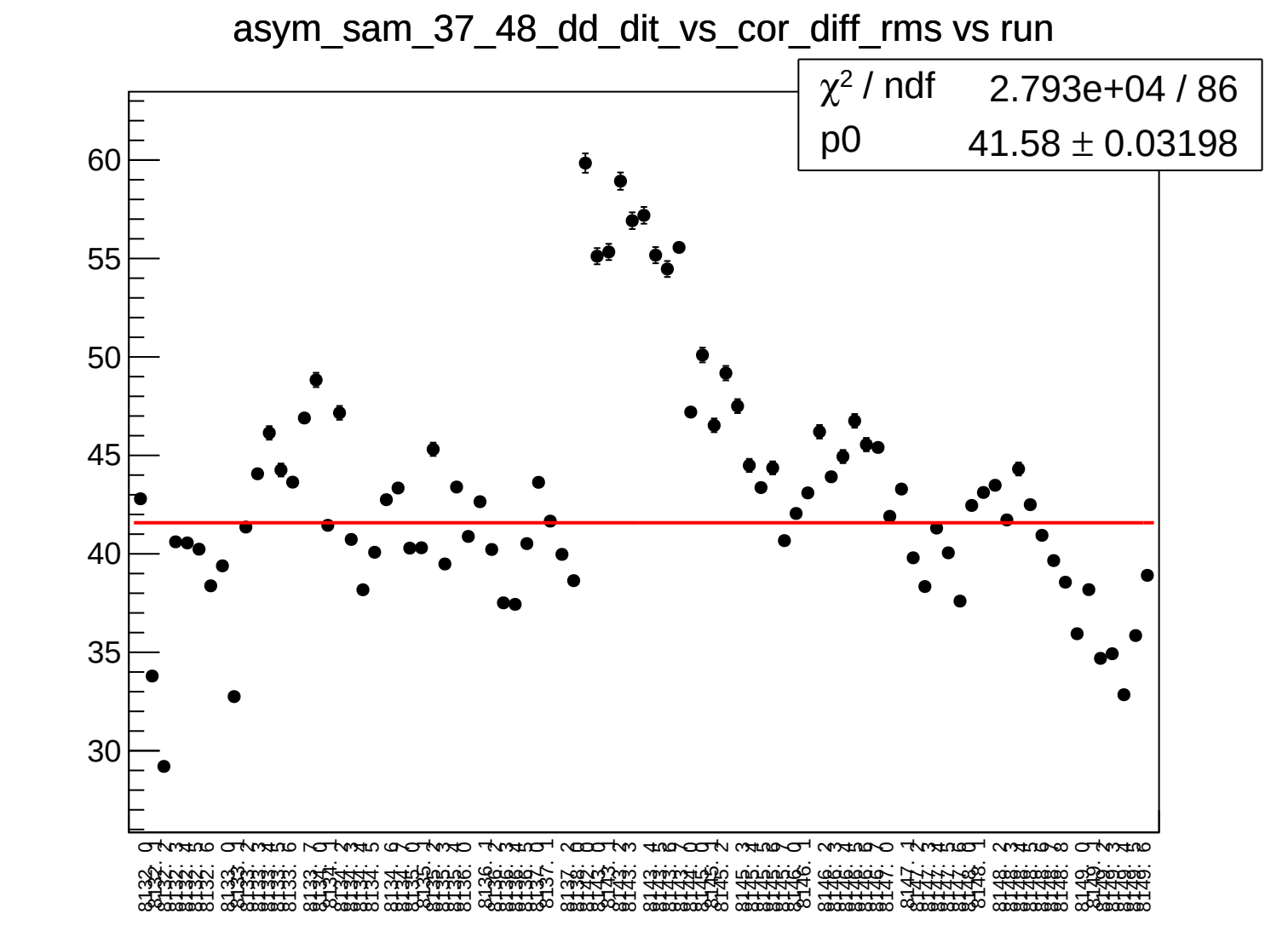

asym_sam_37_48_dd_rms vs run
χ² / ndf 9433 / 86
p0 351.6 ± 0.2689
550
500
450
400
350
300

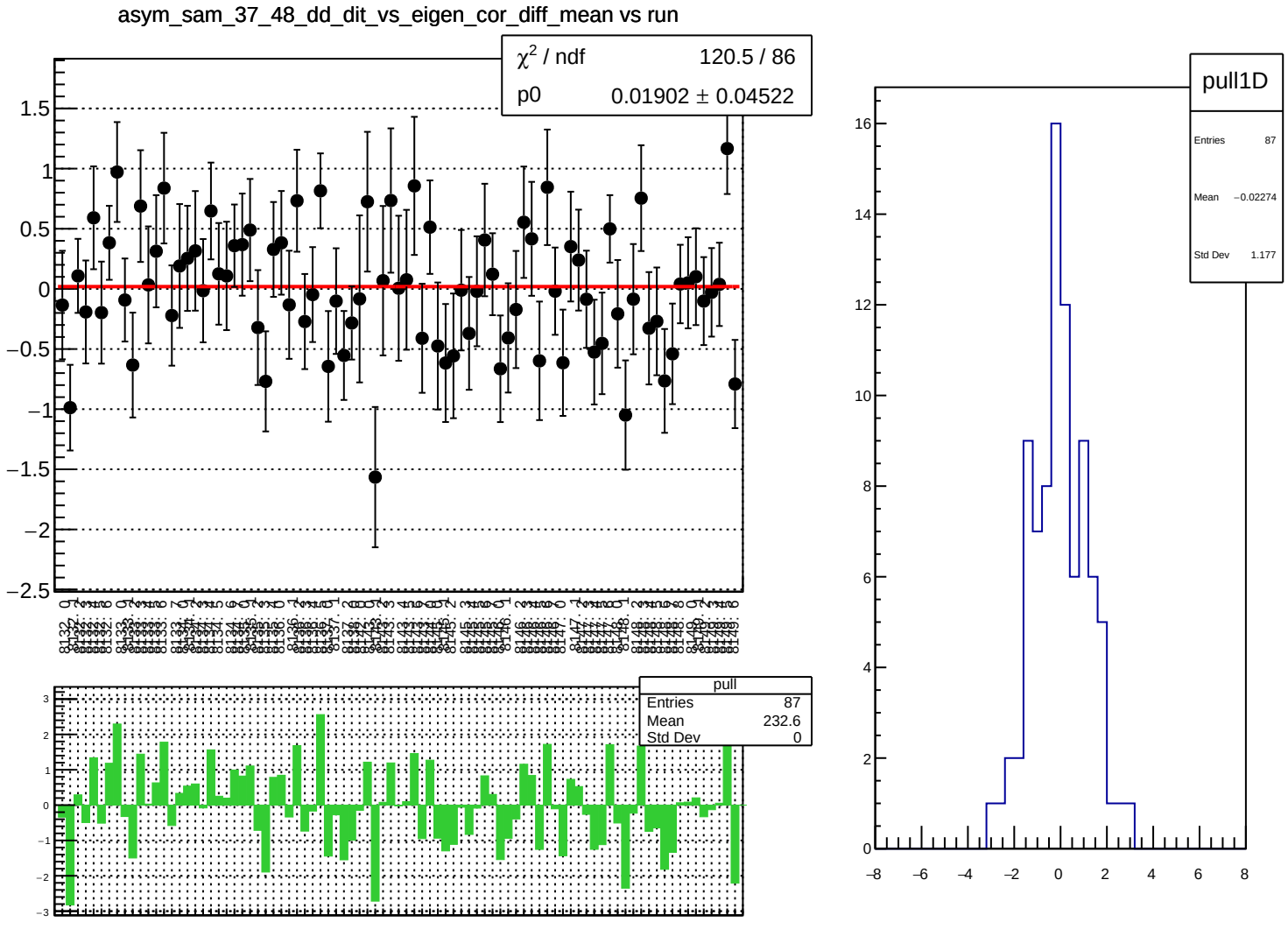

asym_sam_37_48_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 96.79 / 86
p0 1.198e−14 ± 2.695e−14
pull
Entries 87
Mean 31
Std Dev 41.92

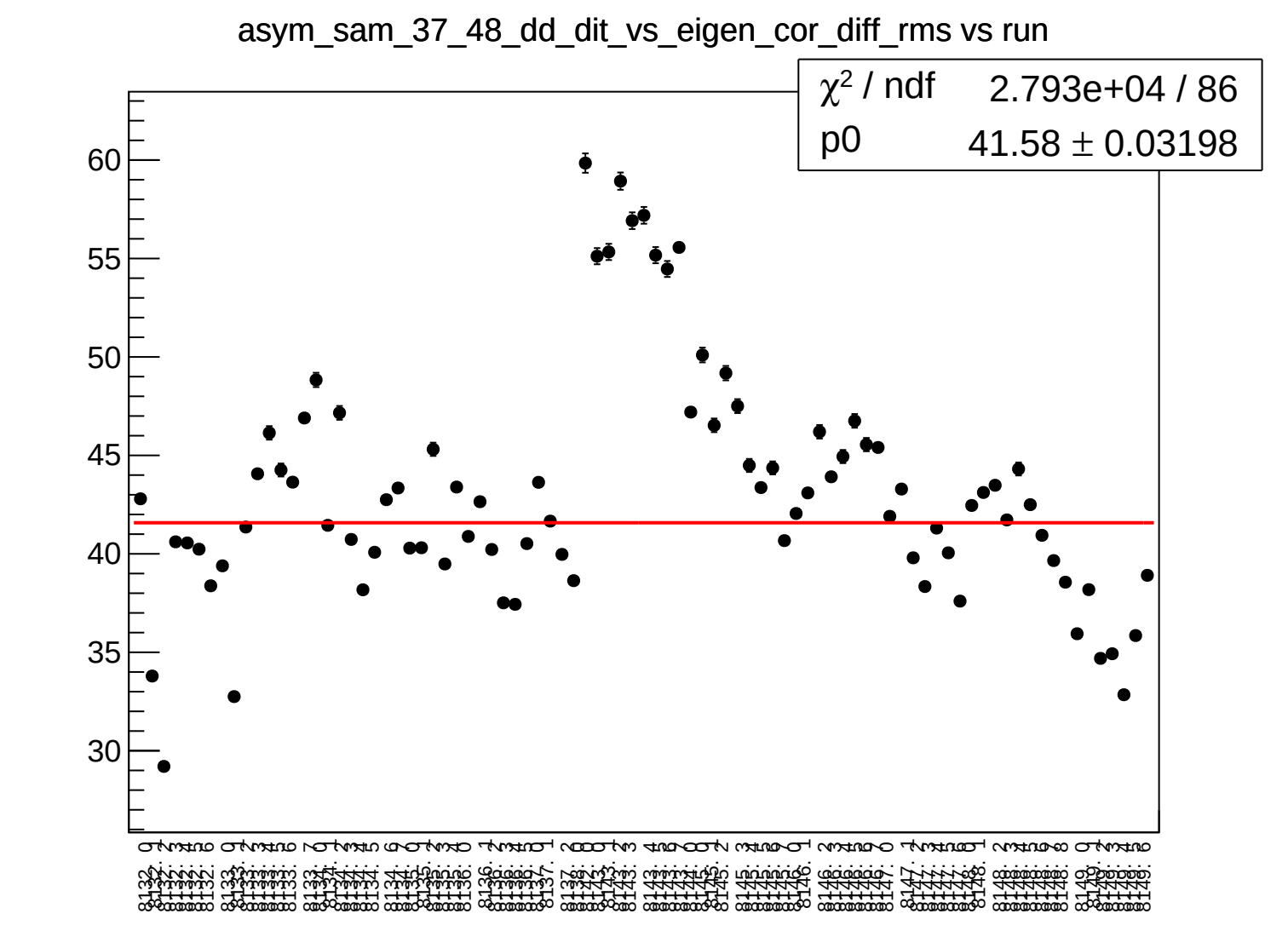

pull1D
Entries 87
Mean 0.07604
Std Dev 1.052

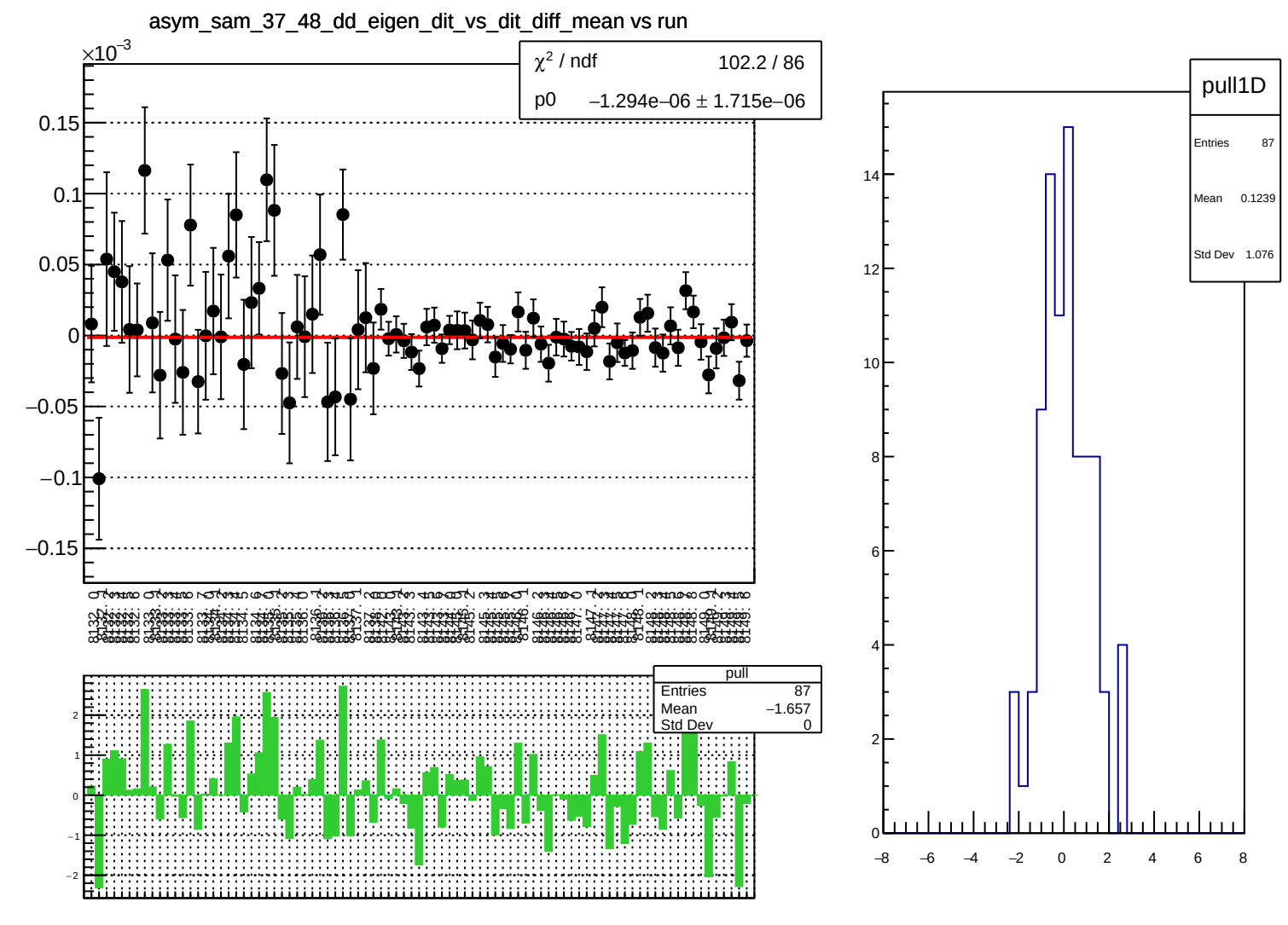

asym_sam_37_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.374e+05 / 86
p0 1.789e−11 ± 1.905e−14
0.03
0.025
0.02
0.015
0.01
0.005
0

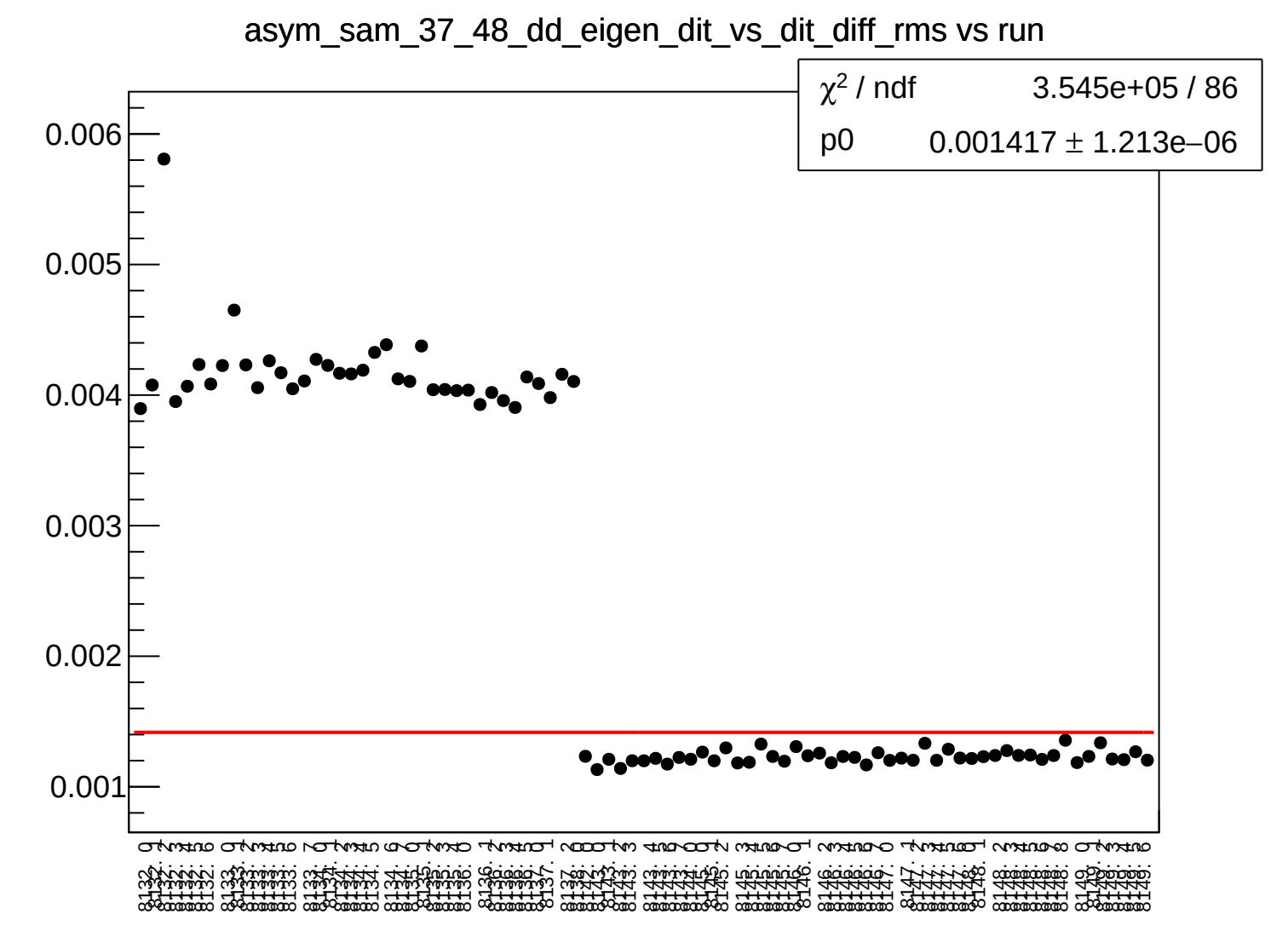

asym_sam_37_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 120.5 / 86
p0 0.01902 ± 0.04522
pull
Entries 87
Mean 232.6
Std Dev 0
pull1D
Entries 87
Mean −0.02274
Std Dev 1.177

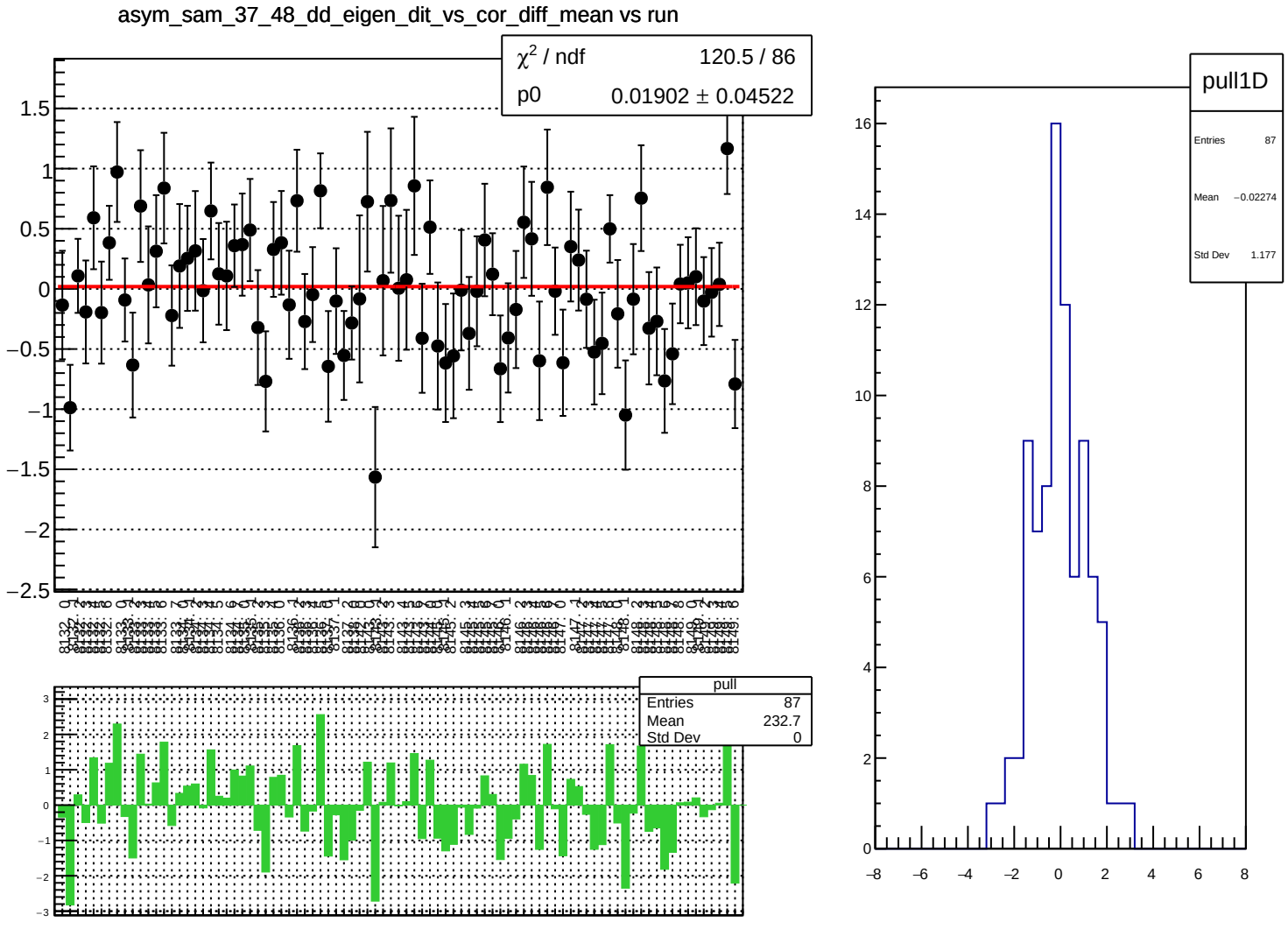

asym_sam_37_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.793e+04 / 86
p0 41.58 ± 0.03198
60
55
50
45
40
35
30

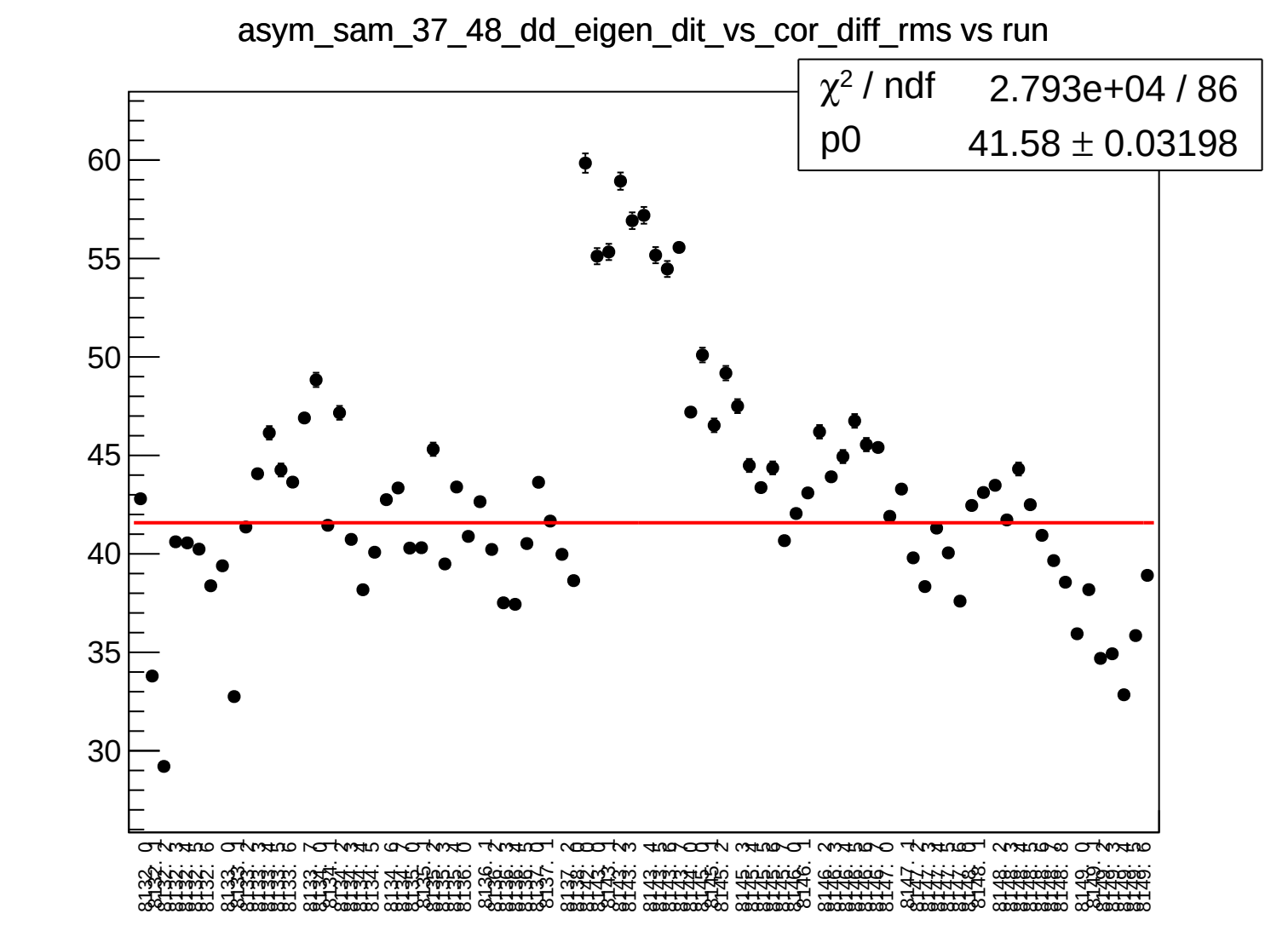

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 120.5 / 86
p0 0.01902 ± 0.04522
pull
Entries 87
Mean 232.6
Std Dev 0
pull1D
Entries 87
Mean −0.02274
Std Dev 1.177

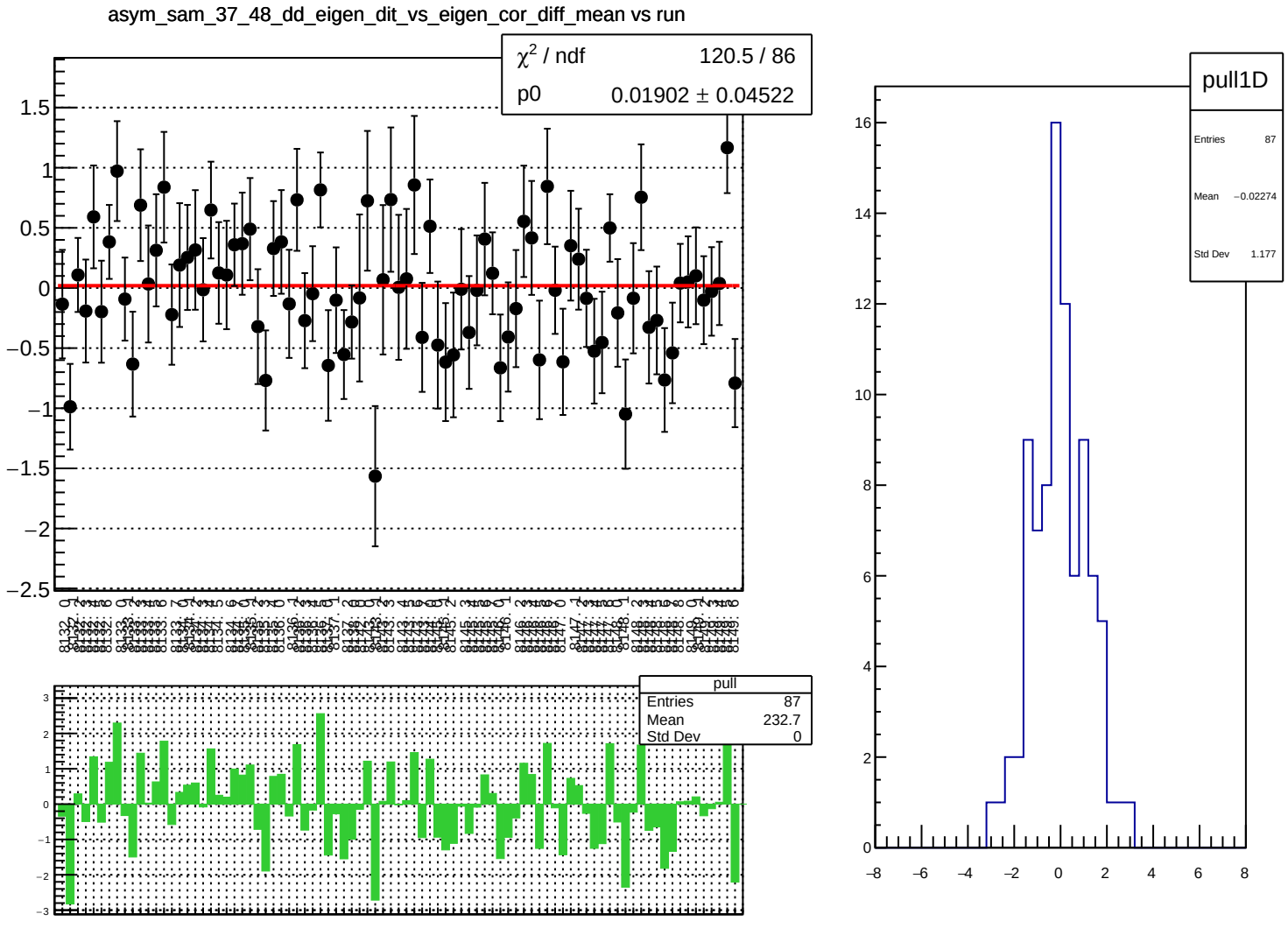

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.793e+04 / 86
p0 41.58 ± 0.03198
60
55
50
45
40
35
30

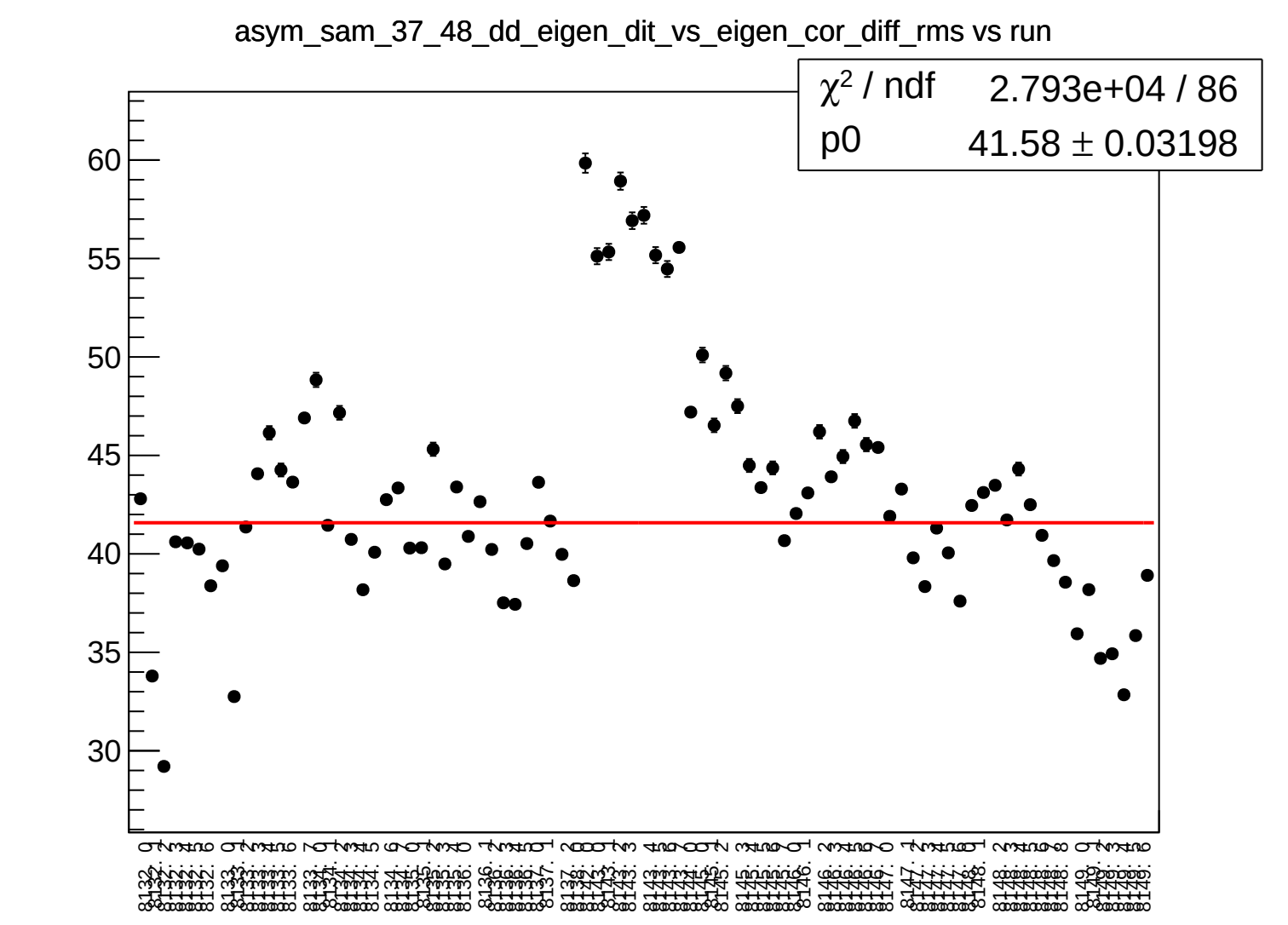

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 102.2 / 86
p0 −1.294e−06 ± 1.715e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 87
Mean −1.657
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.1239
Std Dev 1.076
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

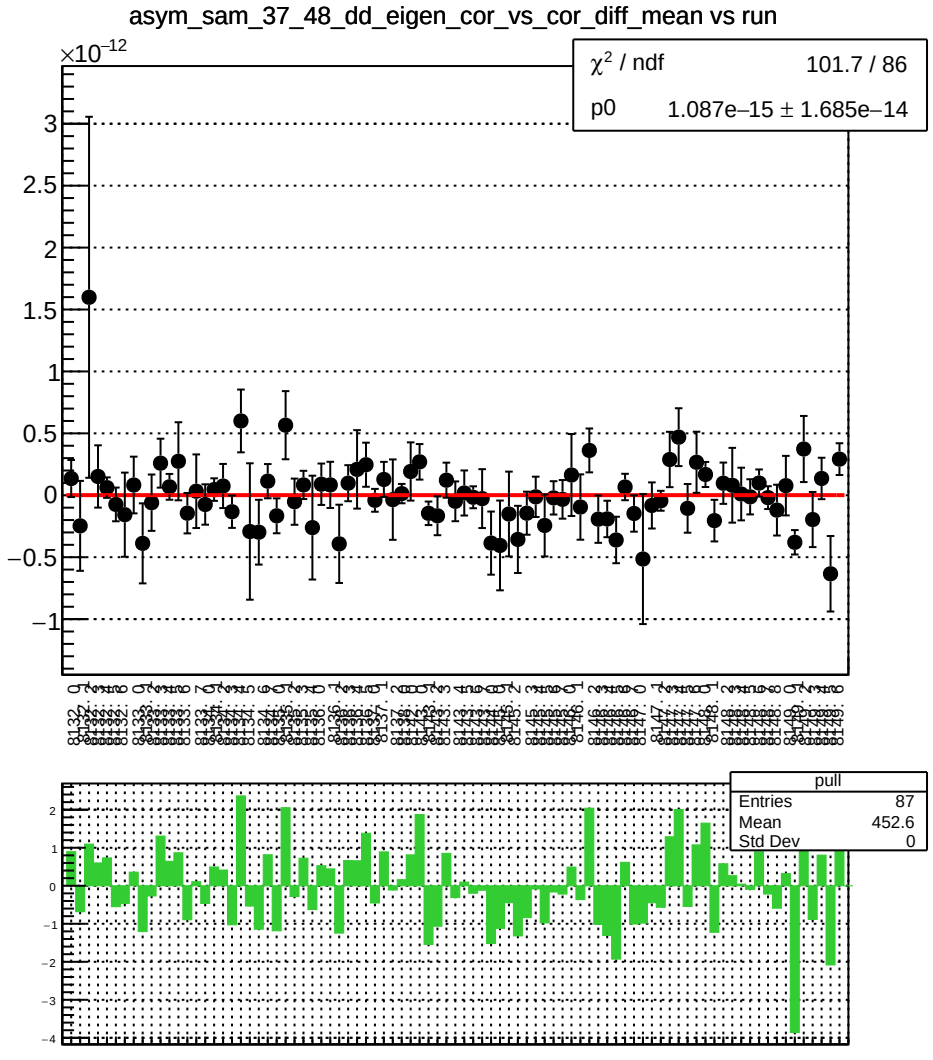

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.545e+05 / 86
p0 0.001417 ± 1.213e−06
0.006
0.005
0.004
0.003
0.002
0.001

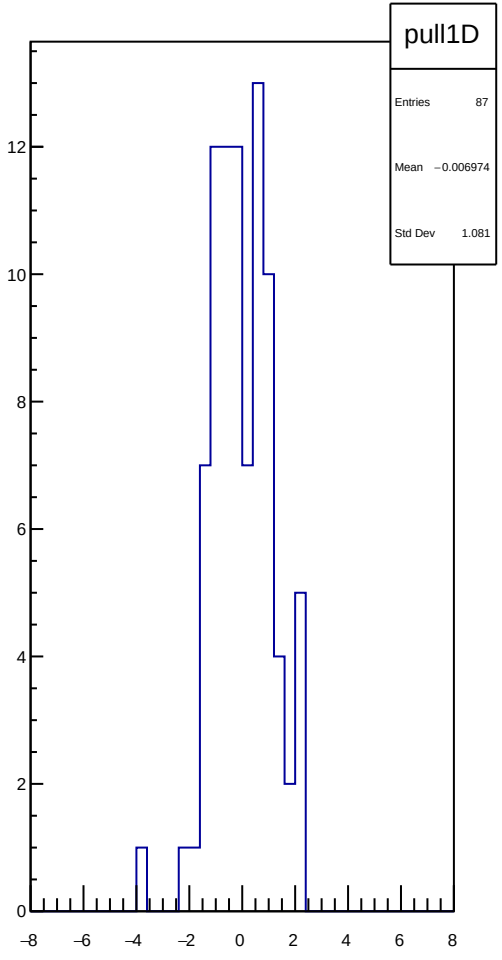

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 120.5 / 86
p0 0.01902 ± 0.04522
pull
Entries 87
Mean 232.7
Std Dev 0
pull1D
Entries 87
Mean −0.02274
Std Dev 1.177

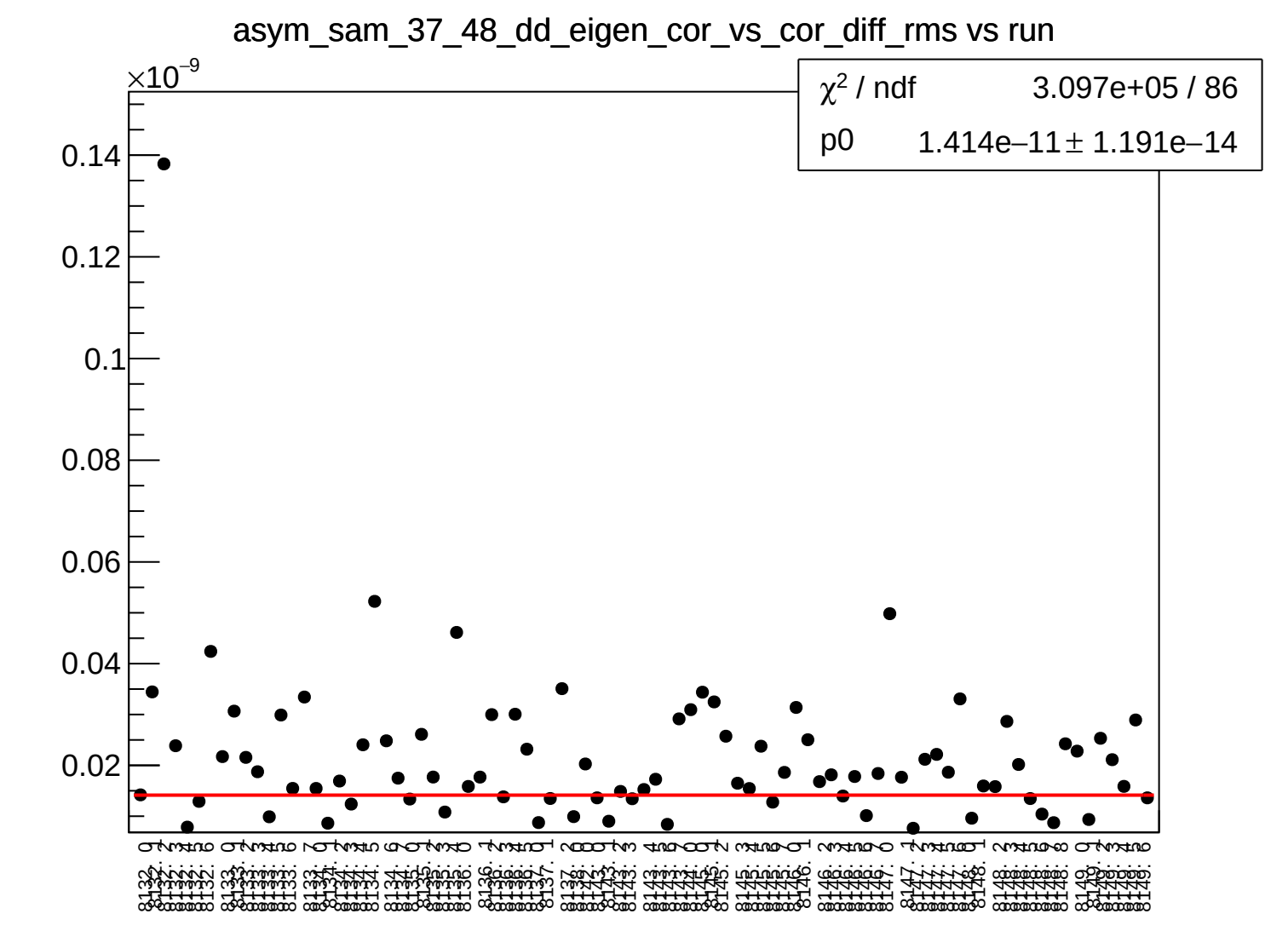

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.793e+04 / 86
p0 41.58 ± 0.03198
60
55
50
45
40
35
30

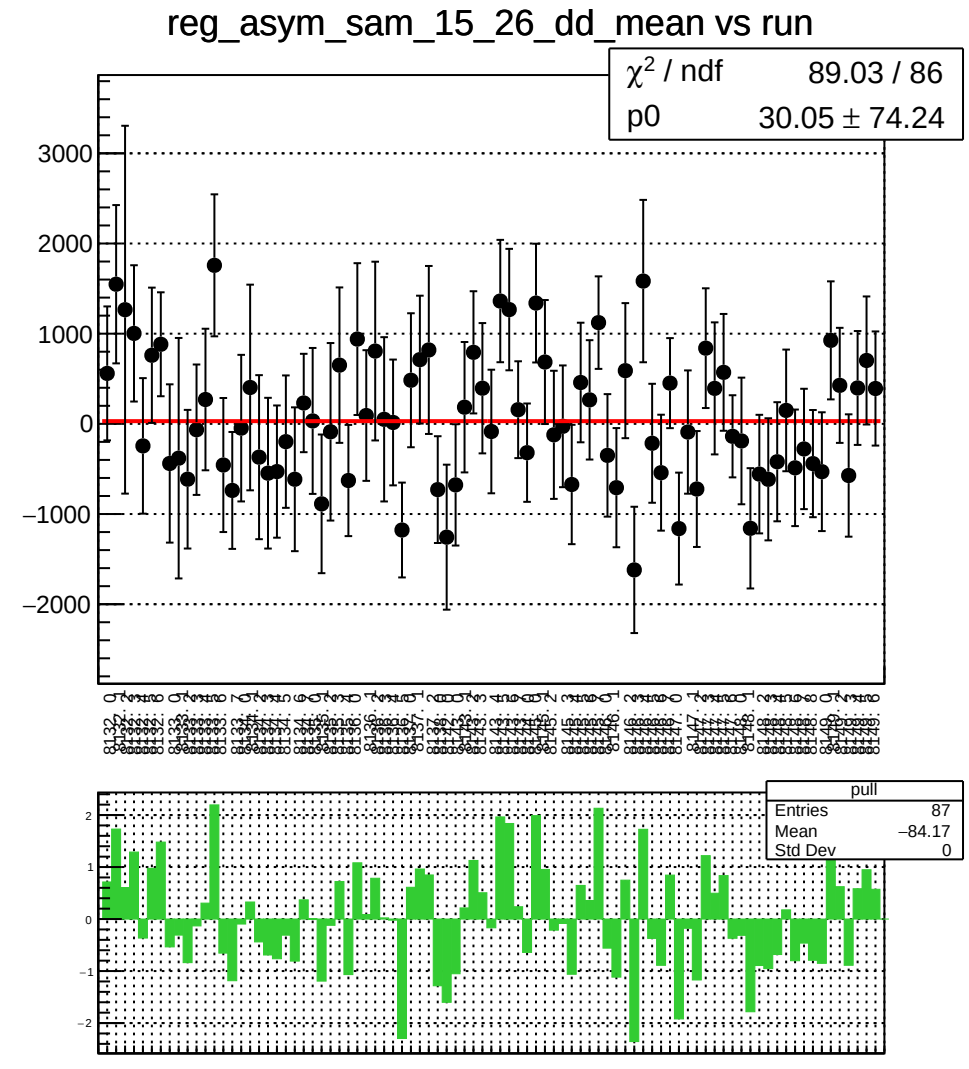

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 120.5 / 86
p0 0.01902 ± 0.04522
pull
Entries 87
Mean 232.7
Std Dev 0
pull1D
Entries 87
Mean −0.02274
Std Dev 1.177

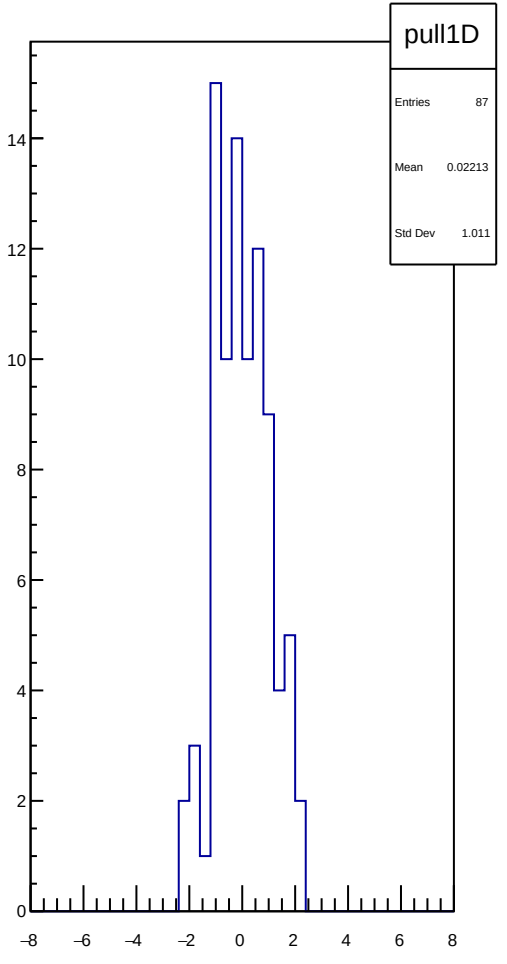

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.793e+04 / 86
p0 41.58 ± 0.03198
60
55
50
45
40
35
30


asym_sam_37_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 101.7 / 86
p0 1.087e−15 ± 1.685e−14
pull
Entries 87
Mean 452.6
Std Dev 0

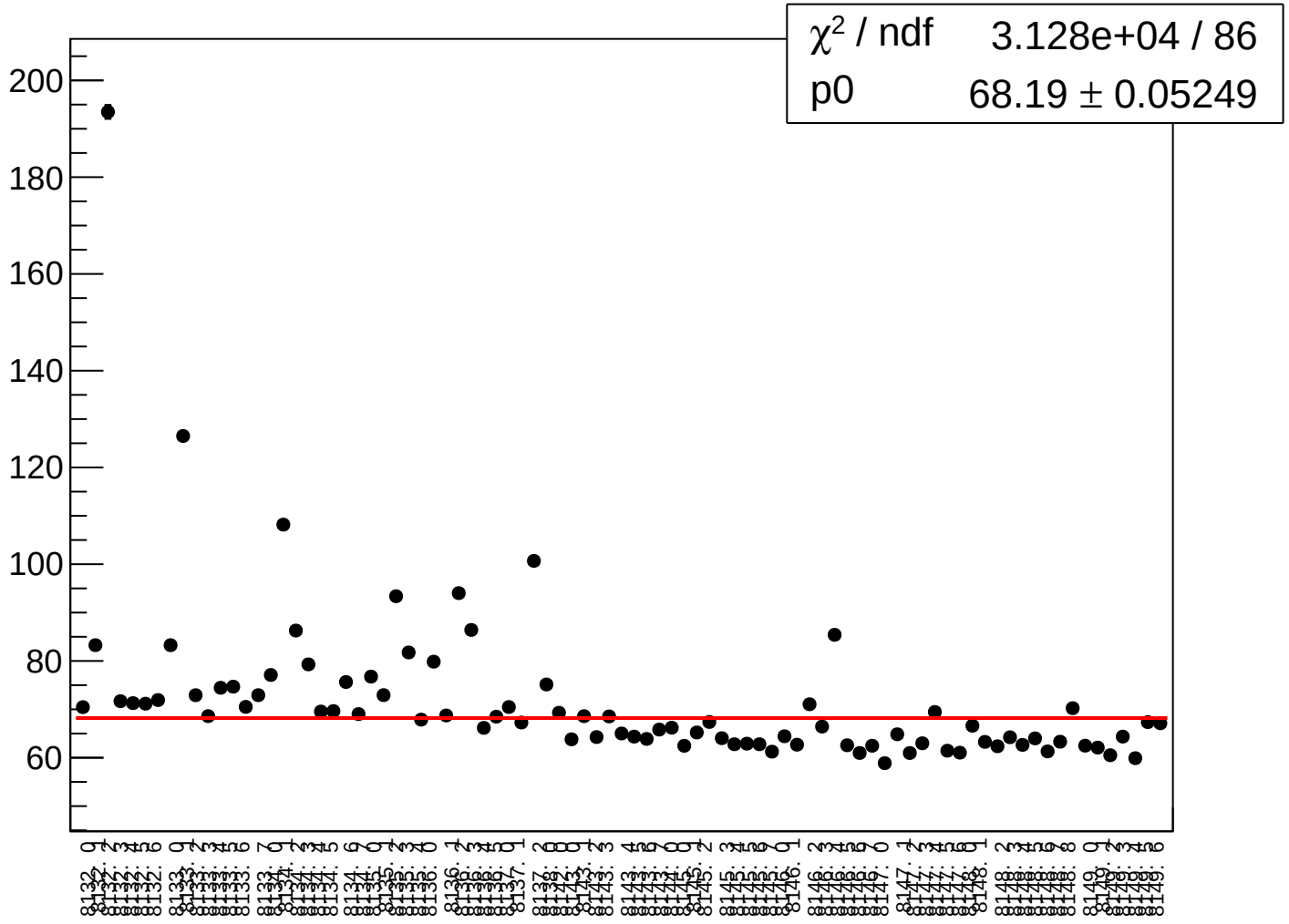

pull1D
Entries 87
Mean −0.006974
Std Dev 1.081

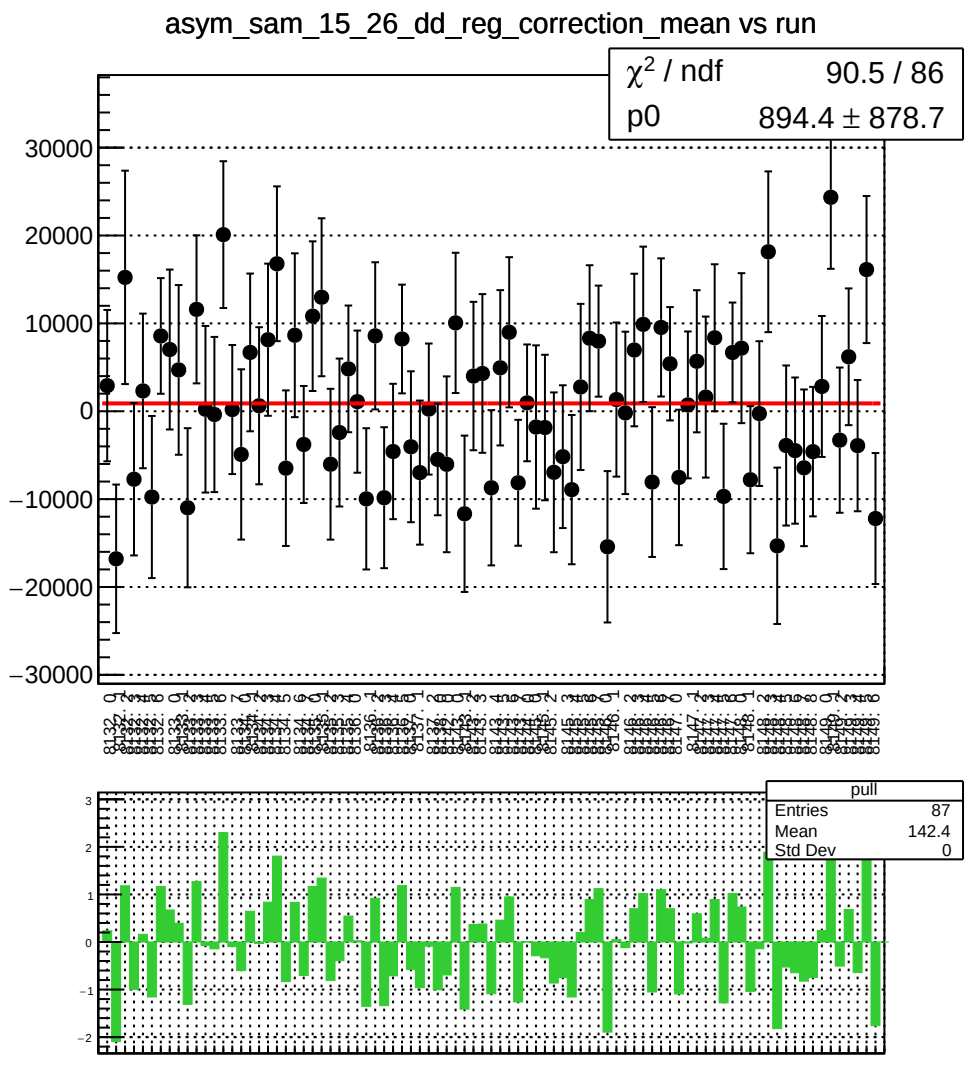

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.097e+05 / 86
p0 1.414e−11 ± 1.191e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

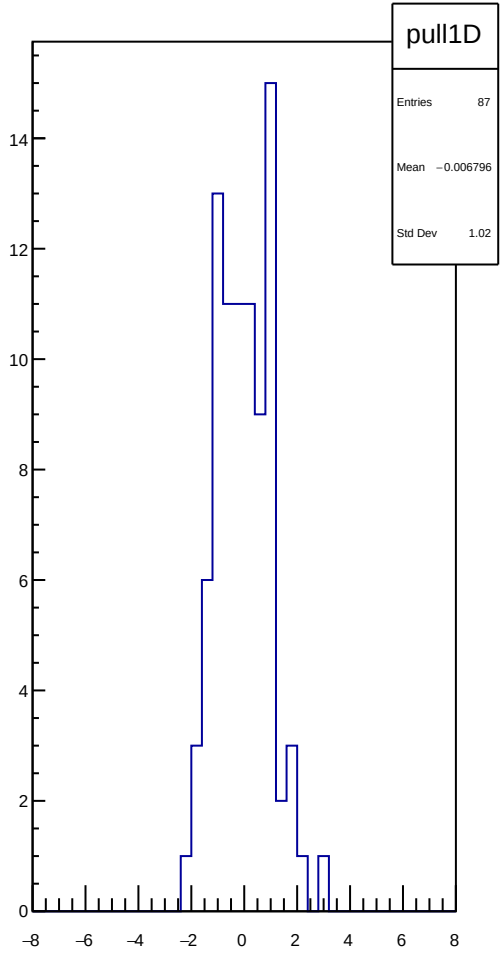

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 89.03 / 86
p0 30.05 ± 74.24
3000
2000
1000
0
−1000
−2000
pull
Entries 87
Mean −84.17
Std Dev 0
2
1
0
−1
−2

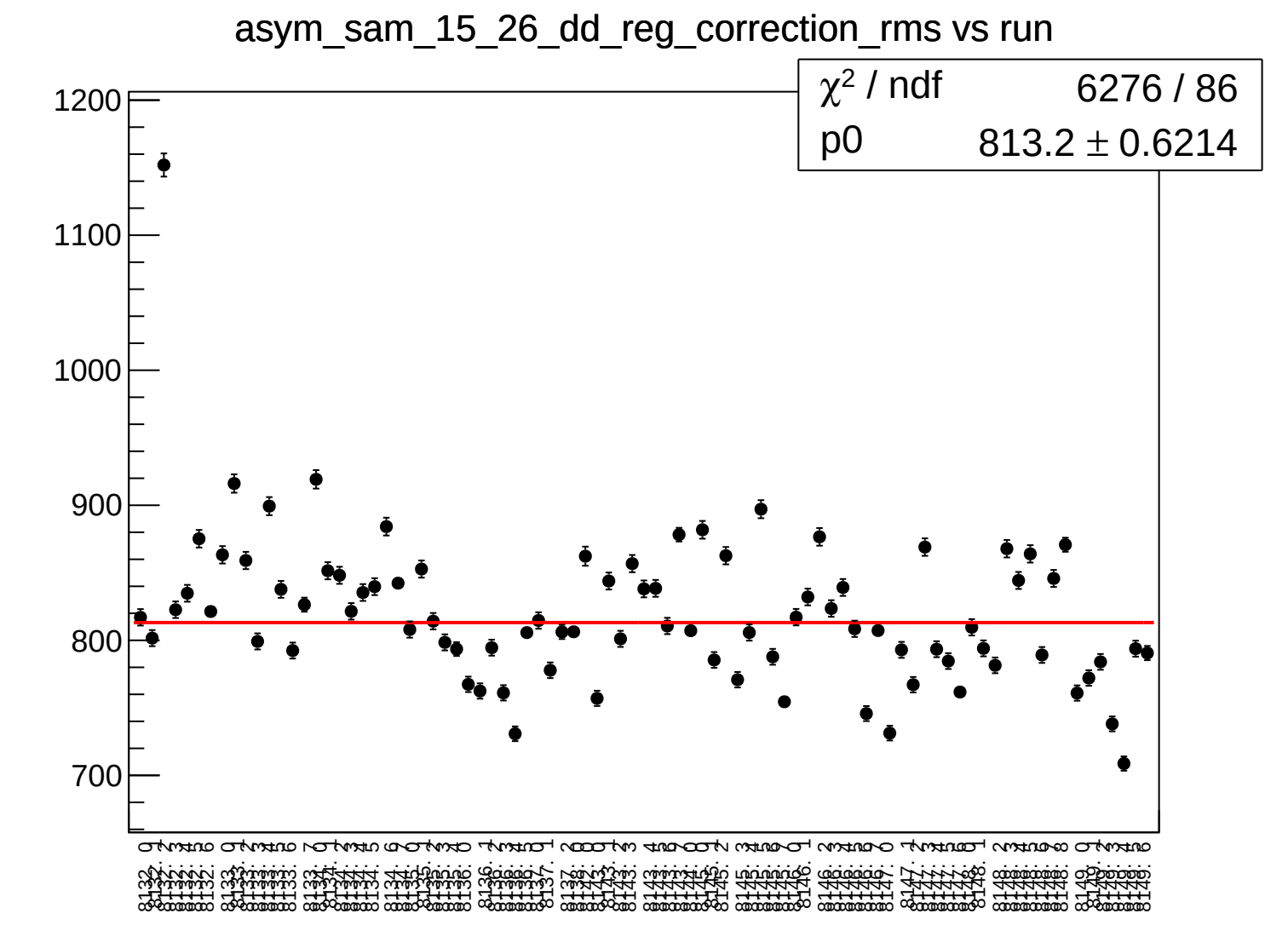

pull1D
Entries 87
Mean 0.02213
Std Dev 1.011
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

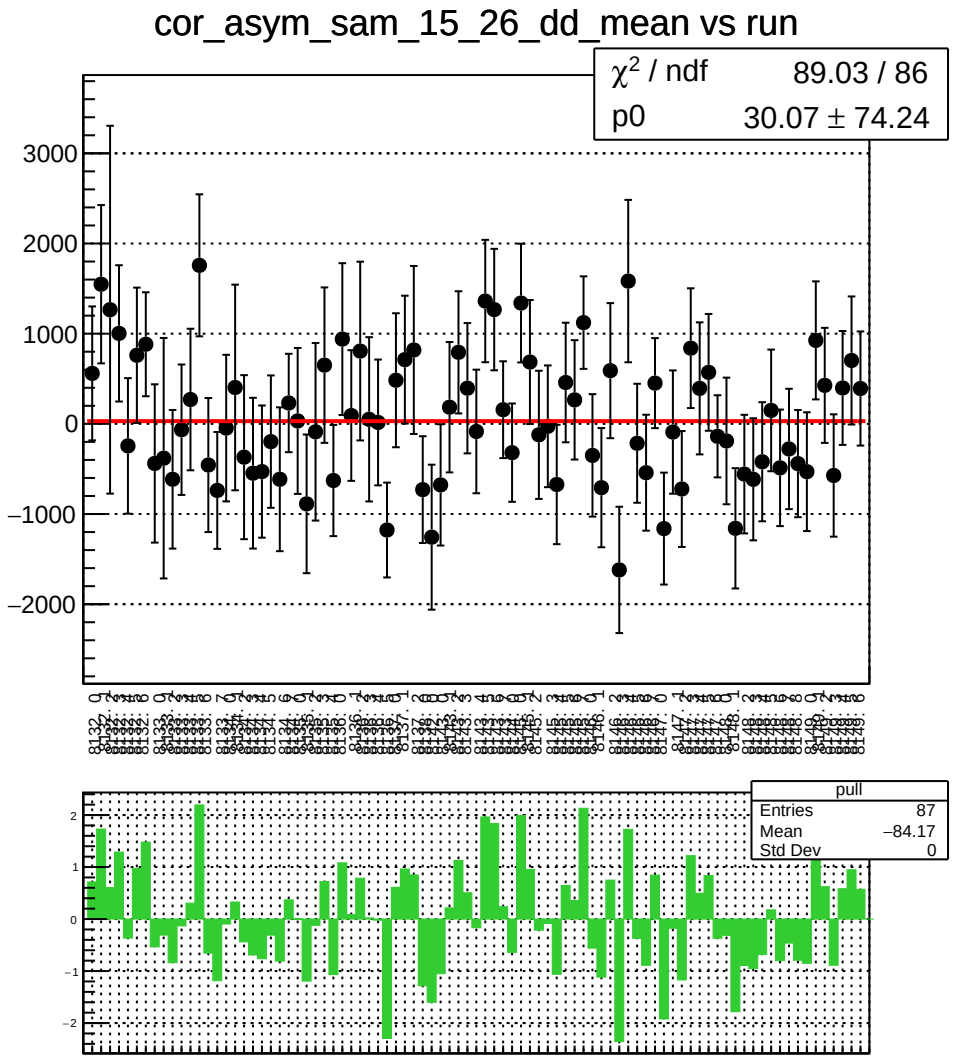
reg_asym_sam_15_26_dd_rms vs run

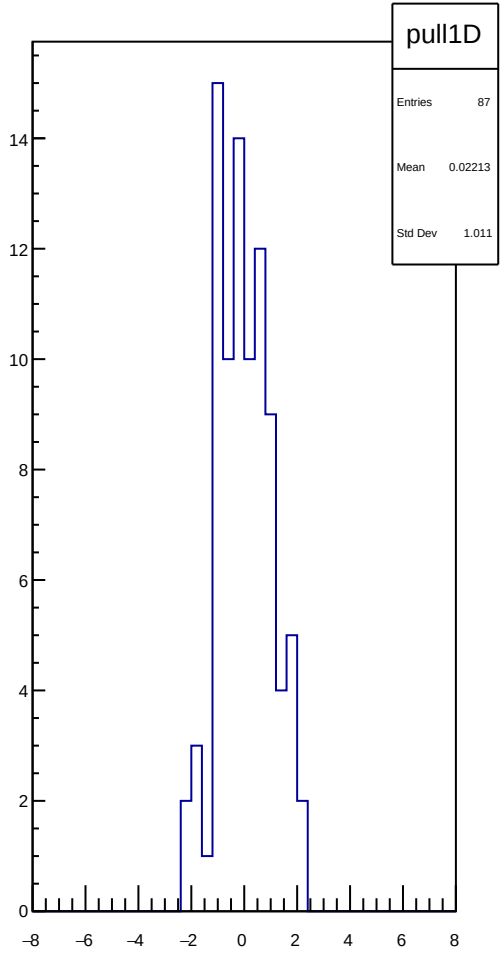


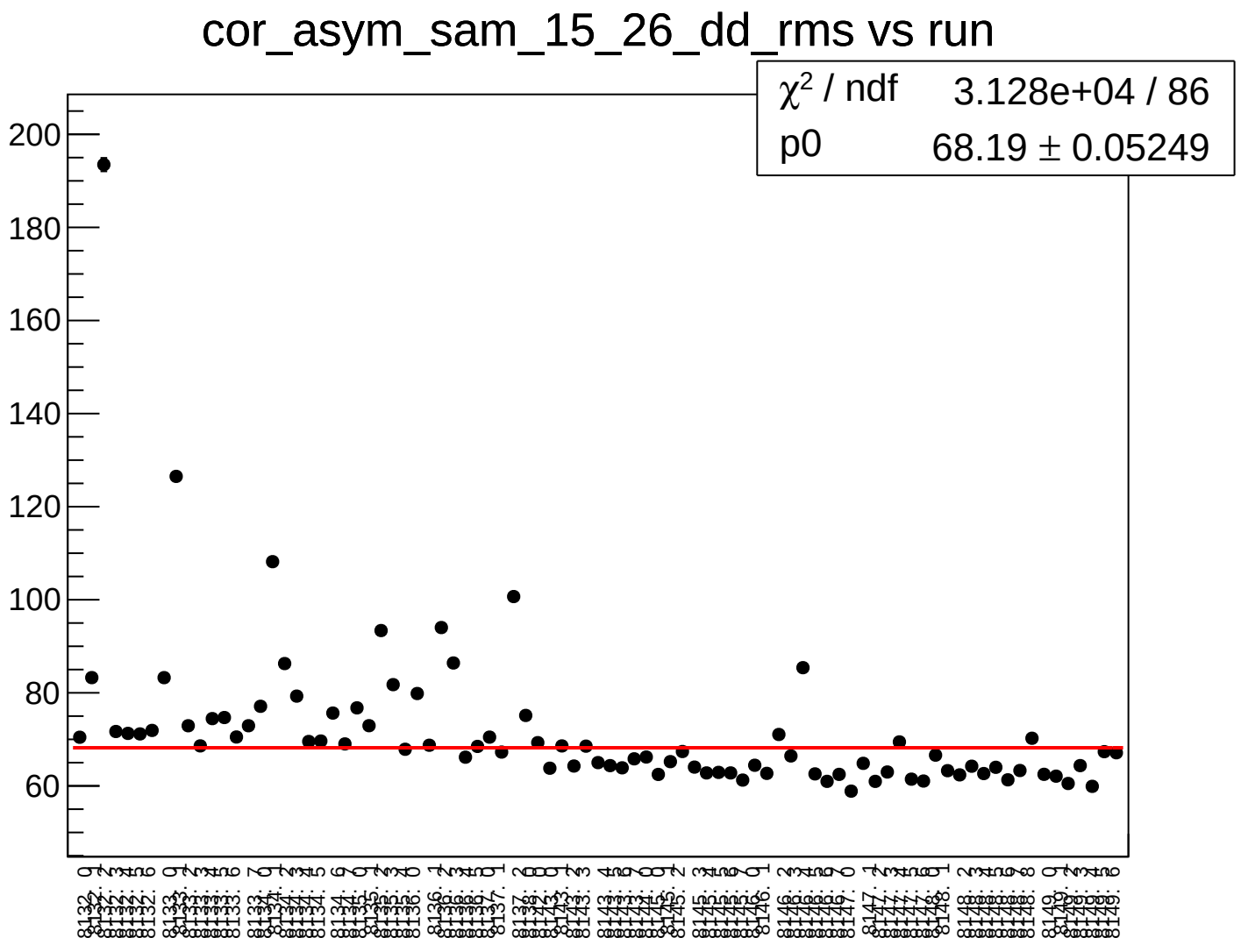

asym_sam_15_26_dd_reg_correction_mean vs run
χ² / ndf 90.5 / 86
p0 894.4 ± 878.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean 142.4
Std Dev 0
3
2
1
0
−1
−2

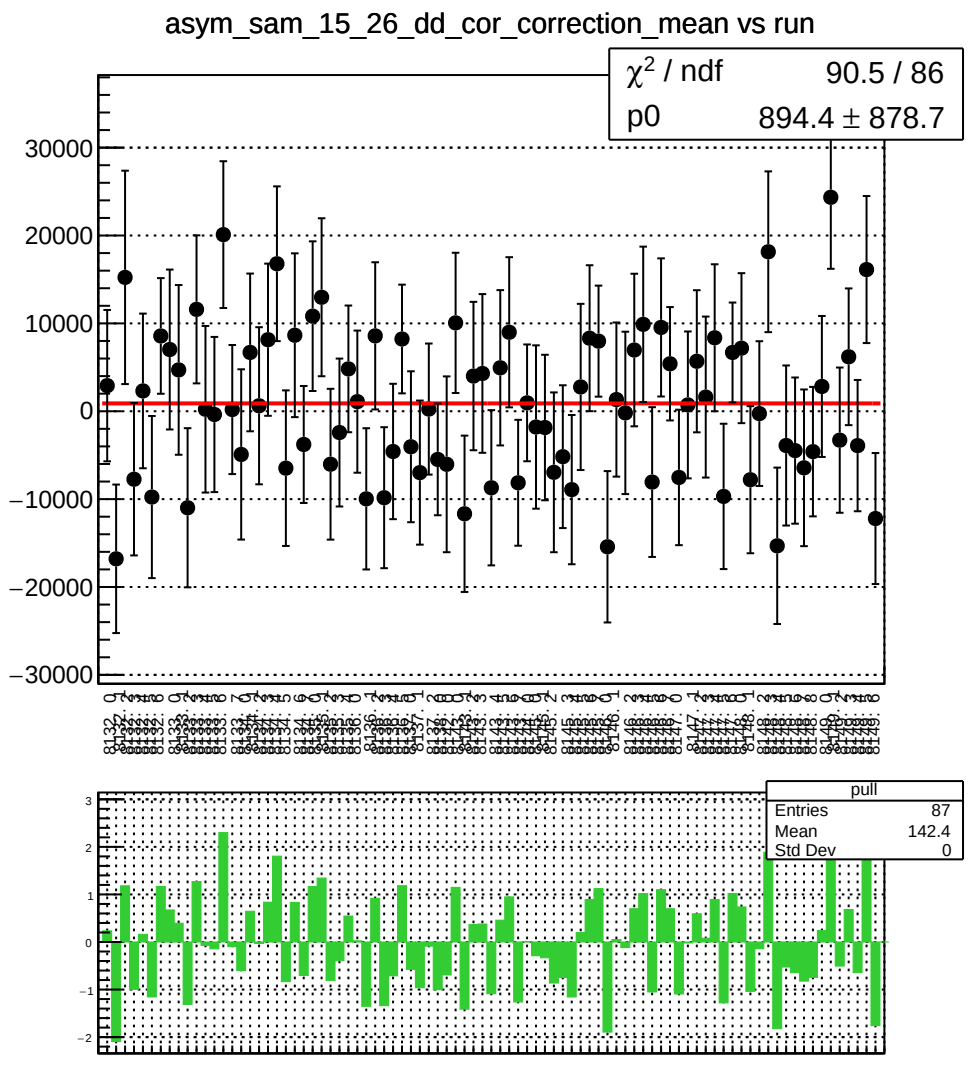

pull1D
Entries 87
Mean −0.006796
Std Dev 1.02
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

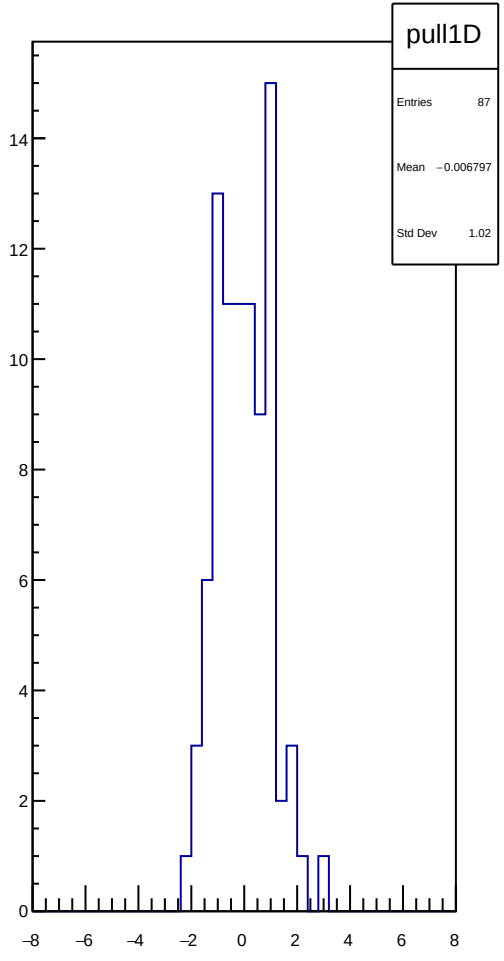

asym_sam_15_26_dd_reg_correction_rms vs run
χ² / ndf 6276 / 86
p0 813.2 ± 0.6214
1200
1100
1000
900
800
700

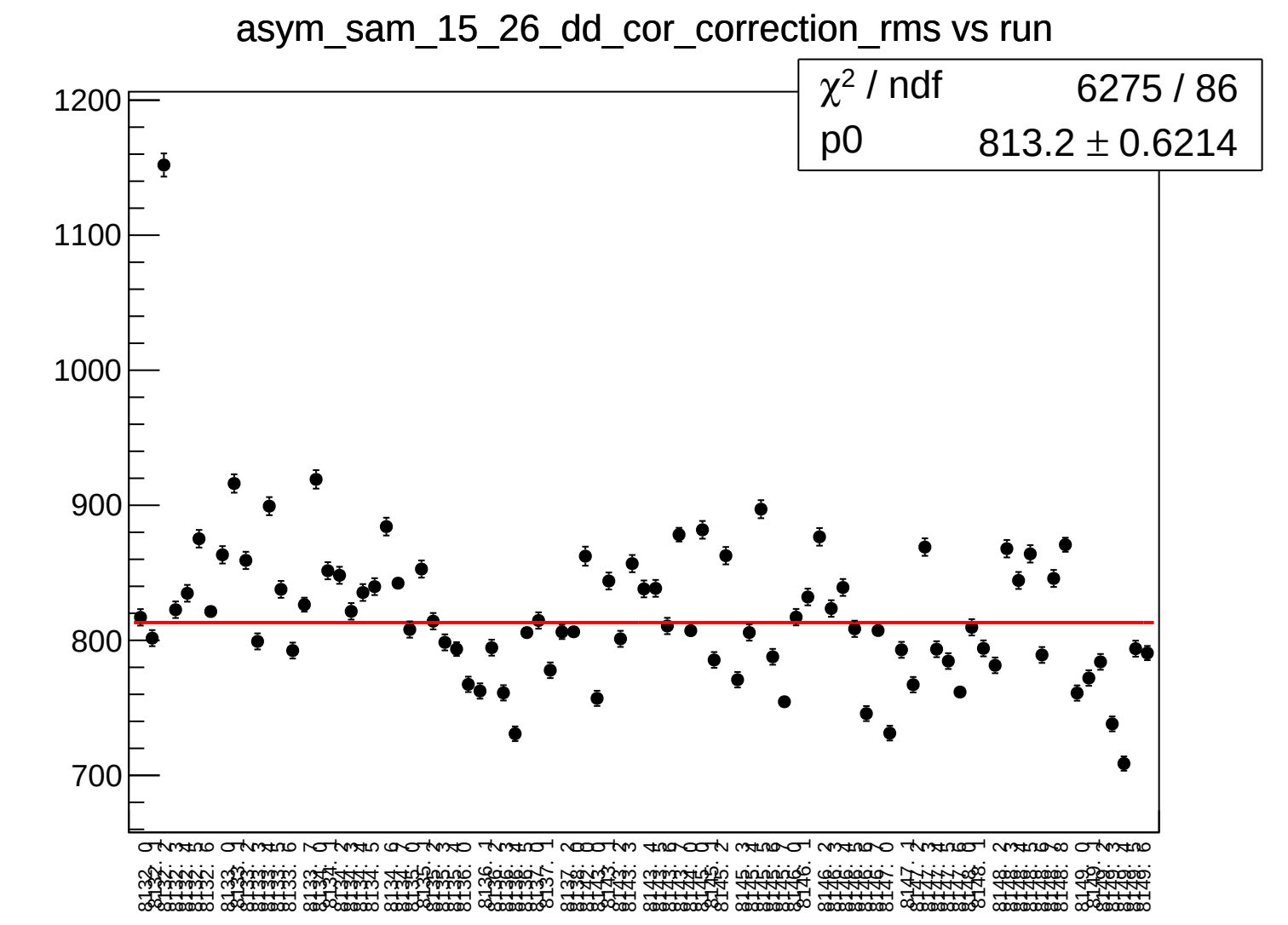

cor_asym_sam_15_26_dd_mean vs run
χ^2 / ndf 89.03 / 86
p0 30.07 ± 74.24
3000
2000
1000
0
−1000
−2000
pull
Entries 87
Mean −84.17
Std Dev 0
2
1
0
−1
−2

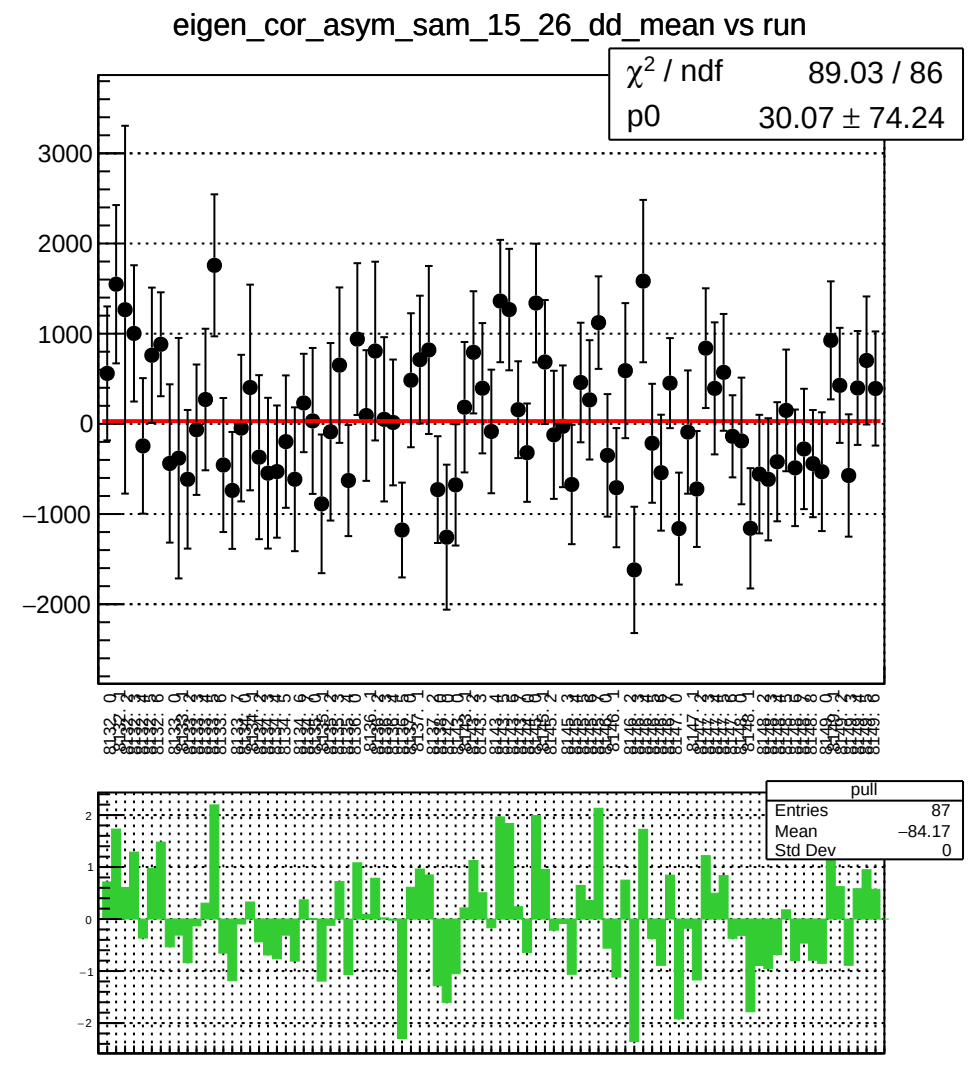

pull1D
Entries 87
Mean 0.02213
Std Dev 1.011
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

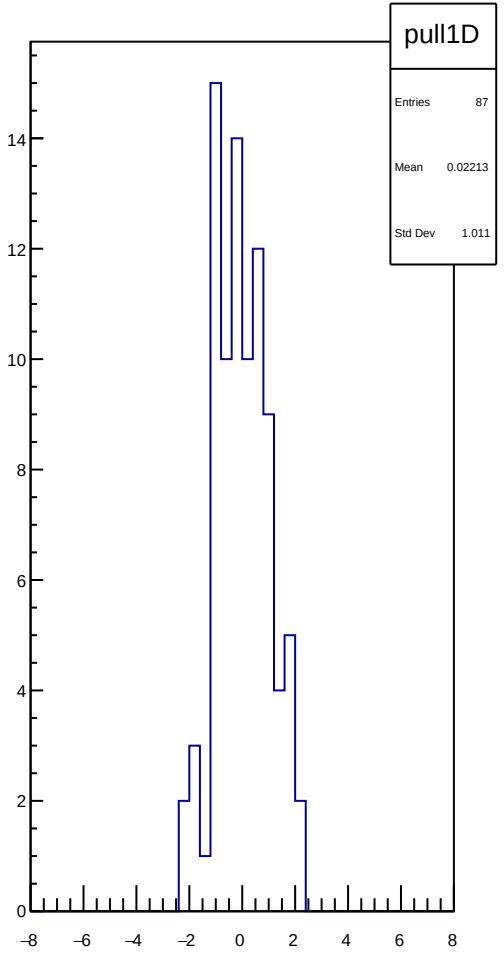

cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 3.128e+04 / 86
p0 68.19 ± 0.05249
200
180
160
140
120
100
80
60

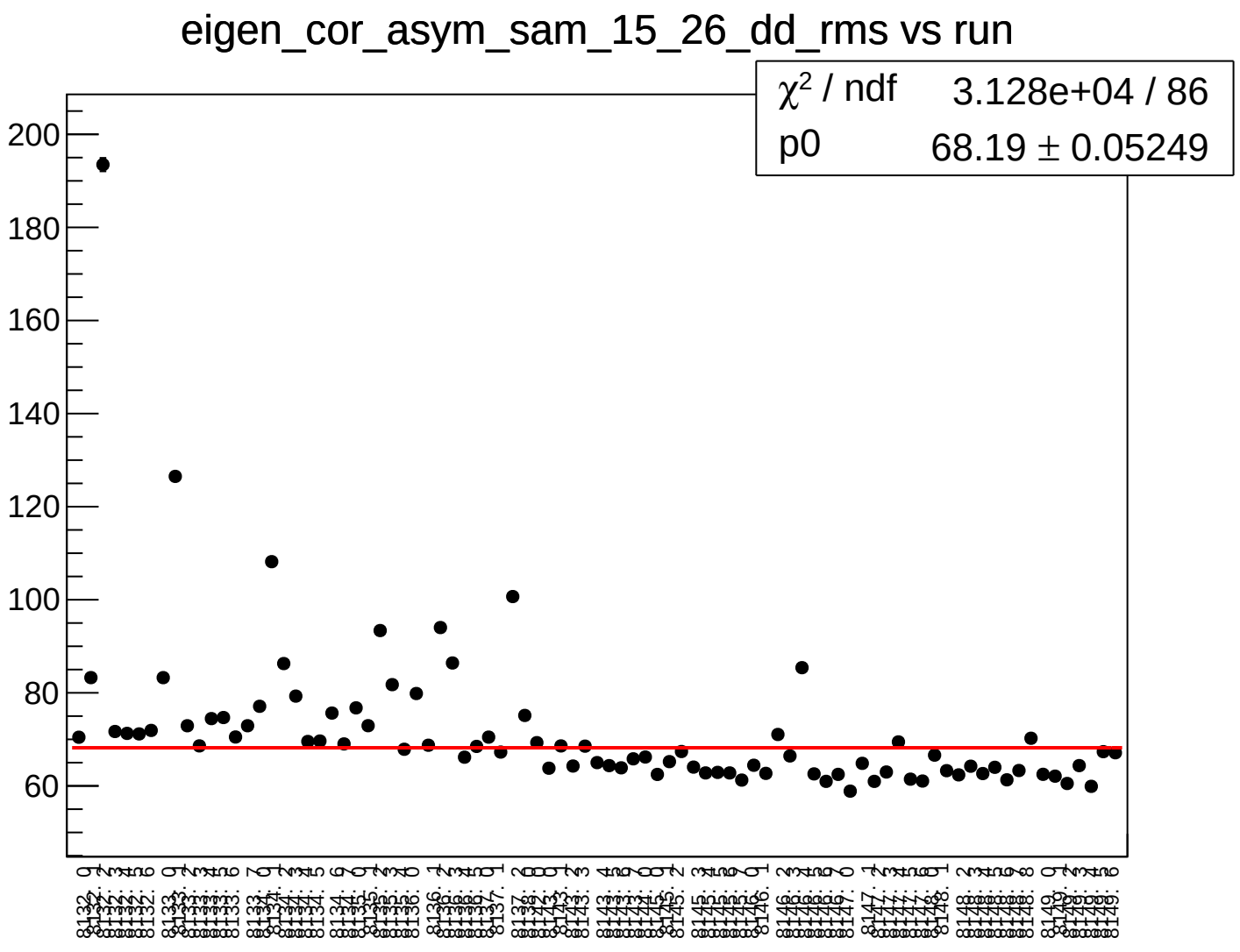

asym_sam_15_26_dd_cor_correction_mean vs run
χ² / ndf 90.5 / 86
p0 894.4 ± 878.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean 142.4
Std Dev 0
3
2
1
0
−1
−2

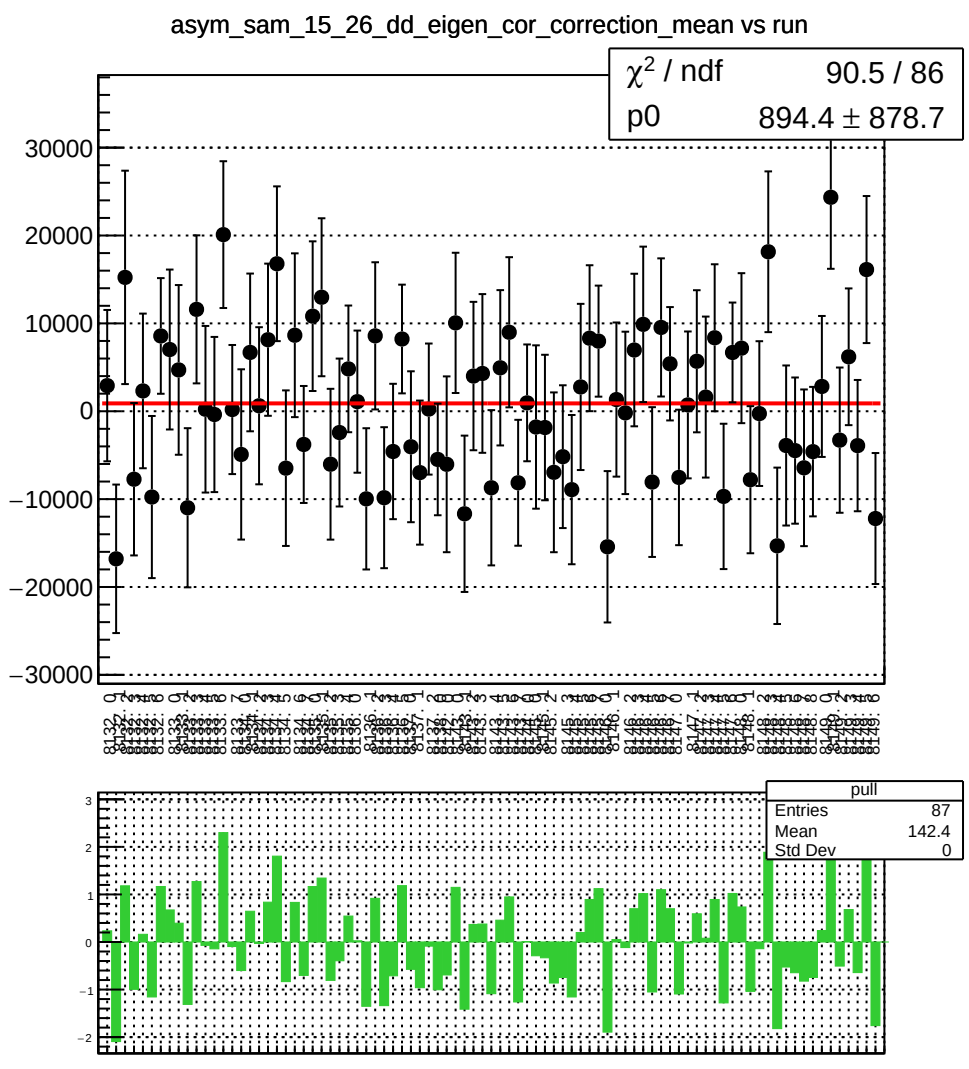

pull1D
Entries 87
Mean −0.006797
Std Dev 1.02
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

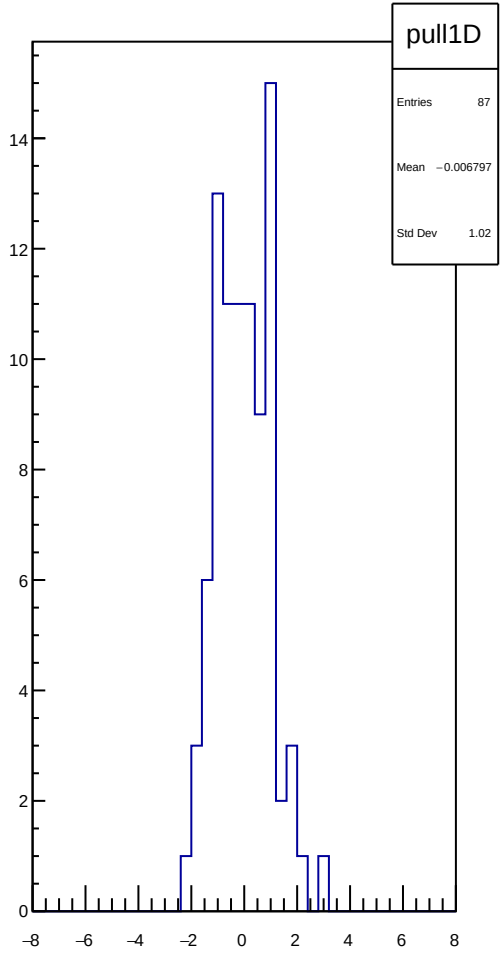

asym_sam_15_26_dd_cor_correction_rms vs run
χ² / ndf 6275 / 86
p0 813.2 ± 0.6214
1200
1100
1000
900
800
700

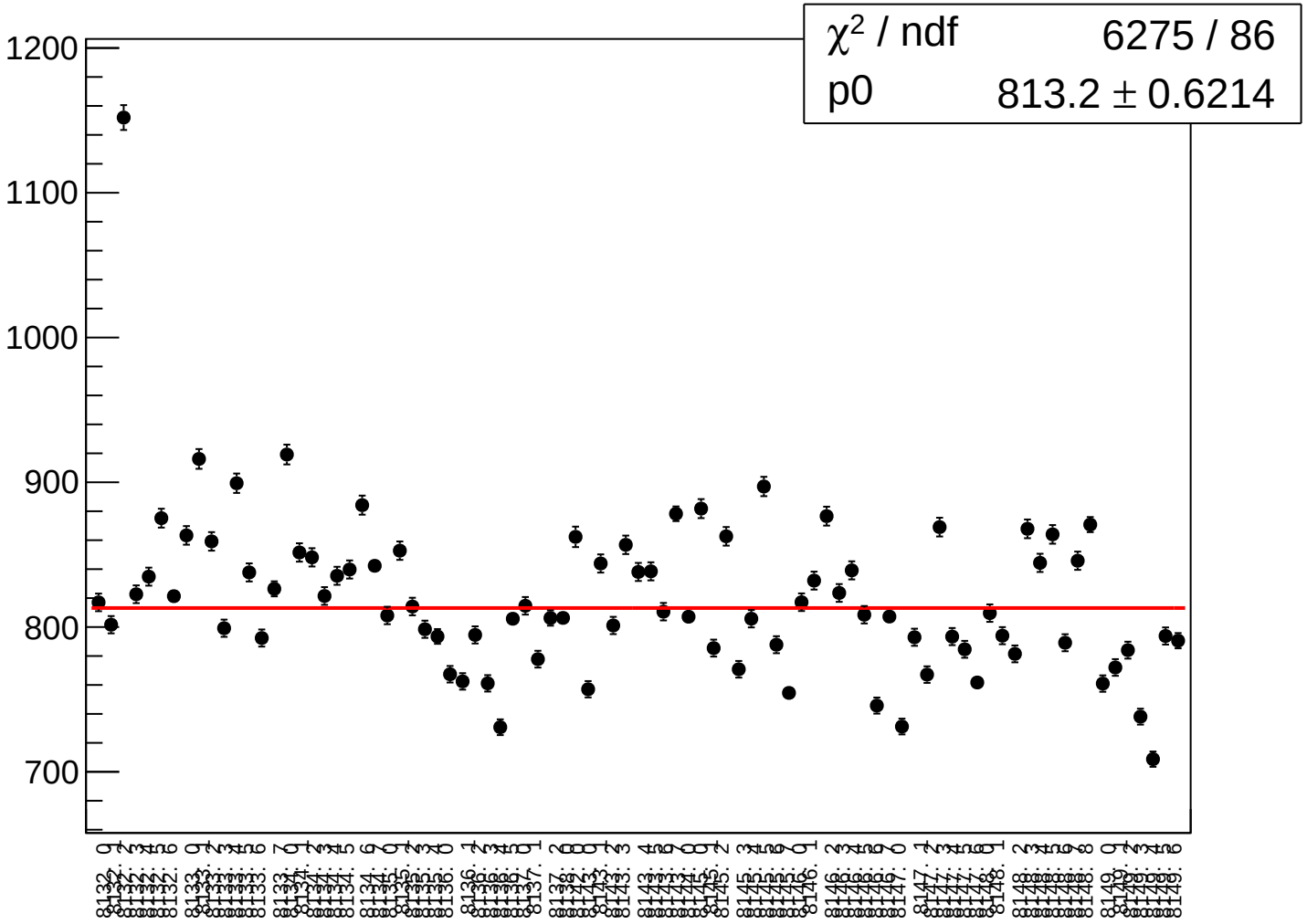

eigen_cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 89.03 / 86
p0 30.07 ± 74.24
3000
2000
1000
0
−1000
−2000
pull
Entries 87
Mean −84.17
Std Dev 0
2
1
0
−1
−2

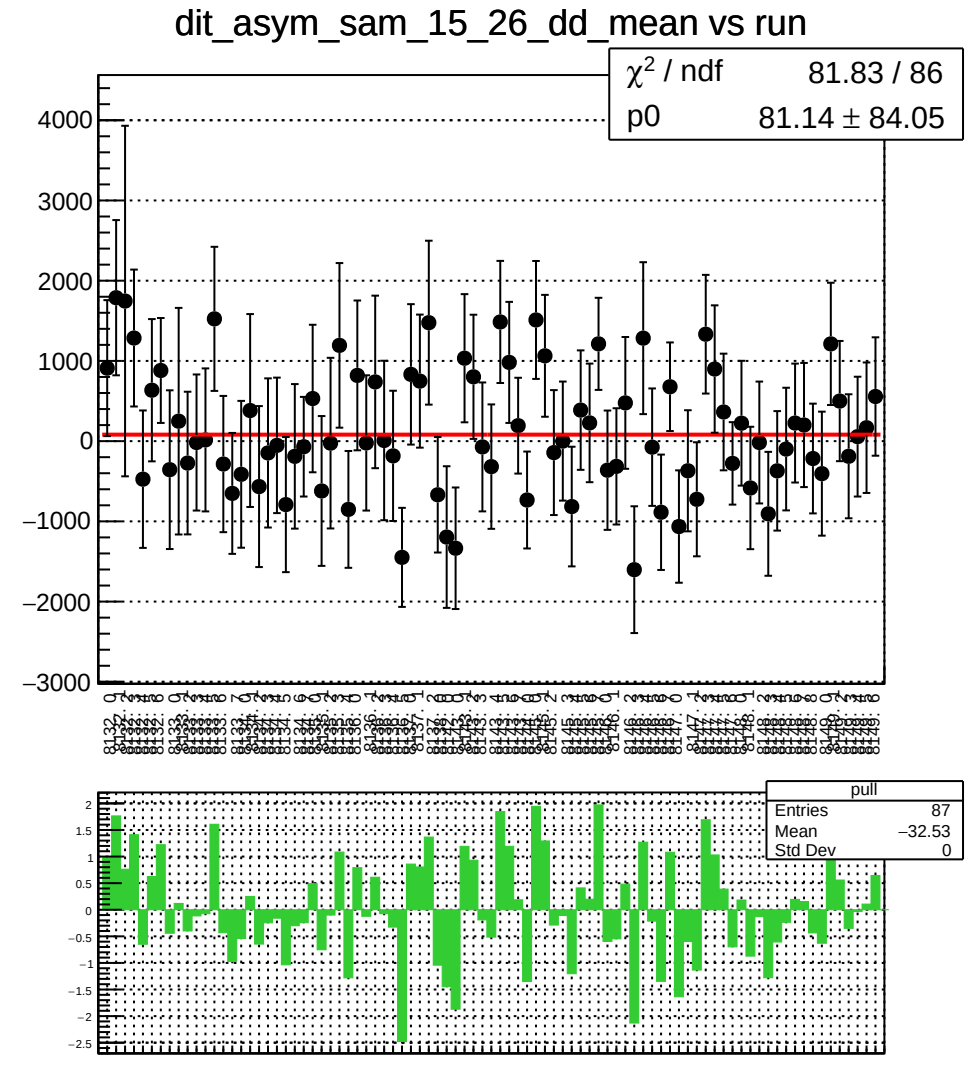

pull1D
Entries 87
Mean 0.02213
Std Dev 1.011
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

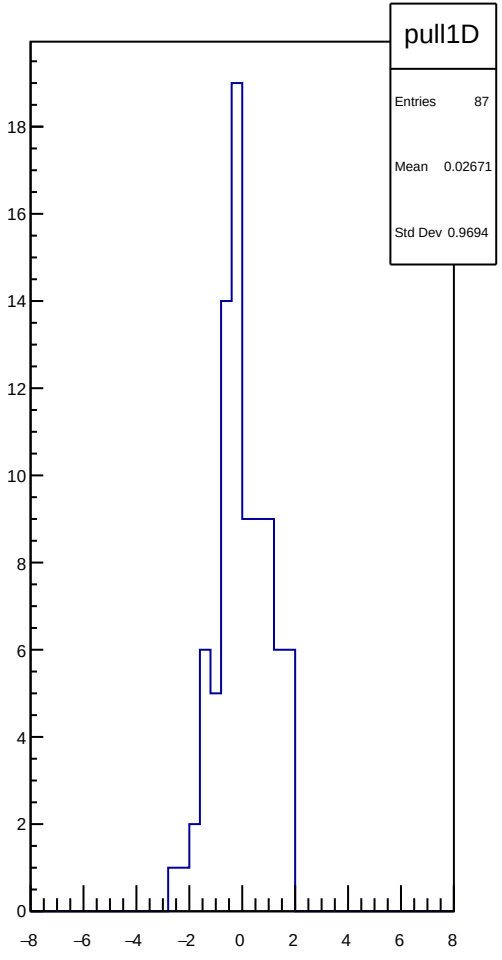

eigen_cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 3.128e+04 / 86
p0 68.19 ± 0.05249
200
180
160
140
120
100
80
60

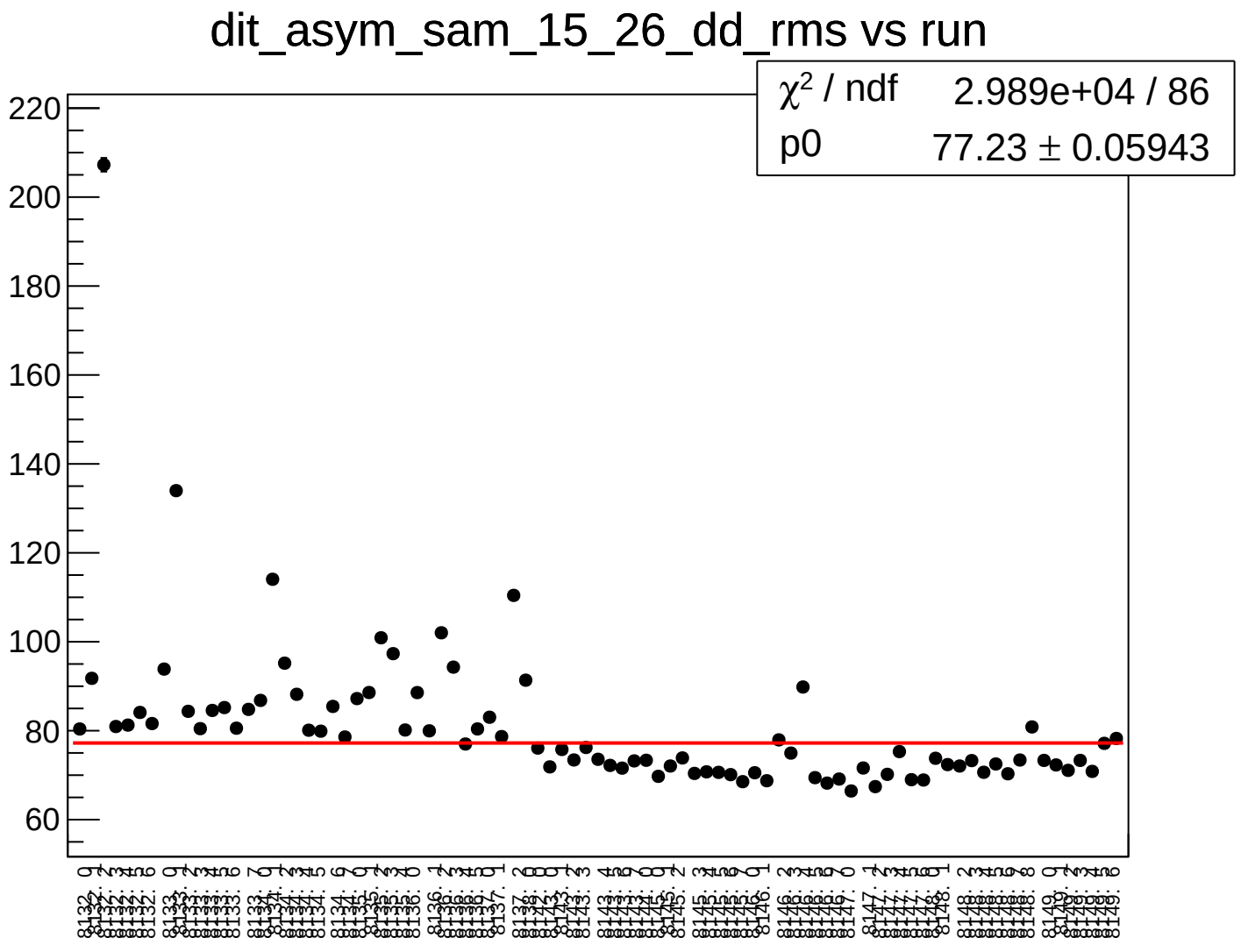

asym_sam_15_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 90.5 / 86
p0 894.4 ± 878.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean 142.4
Std Dev 0
3
2
1
0
−1
−2

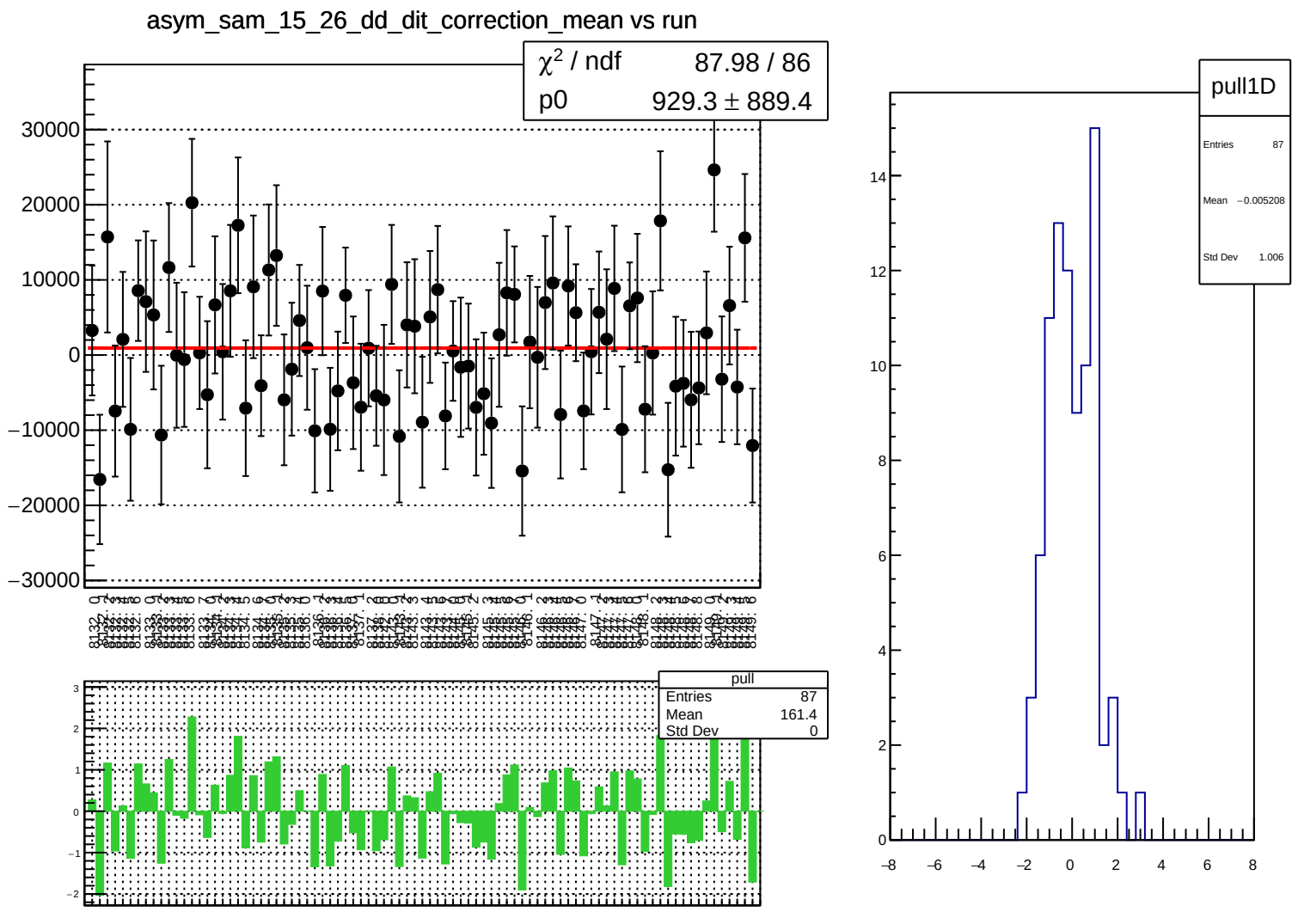

pull1D
Entries 87
Mean −0.006797
Std Dev 1.02
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

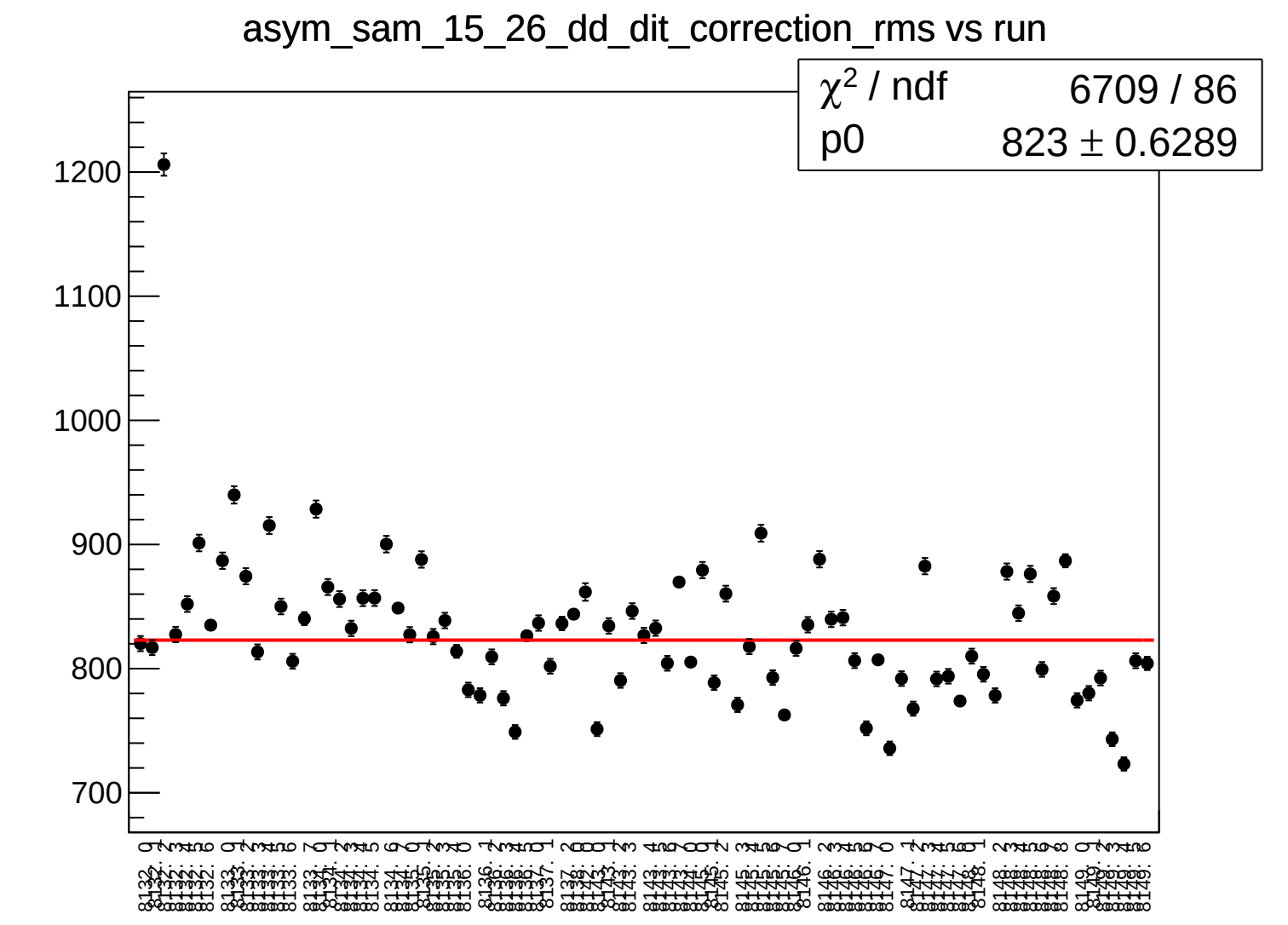

asym_sam_15_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 6275 / 86
p0 813.2 ± 0.6214
1200
1100
1000
900
800
700

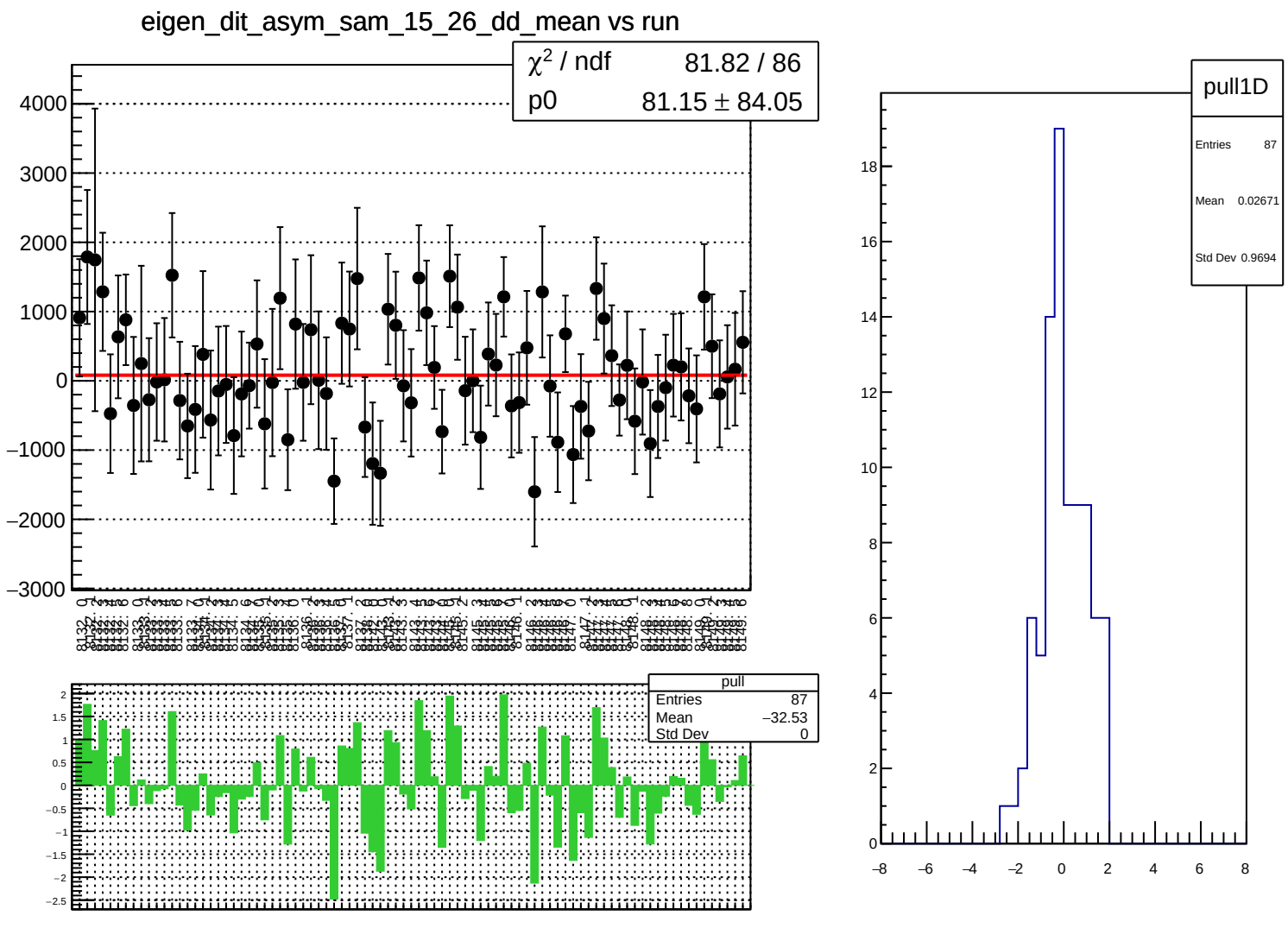

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 81.83 / 86
p0 81.14 ± 84.05
pull
Entries 87
Mean −32.53
Std Dev 0

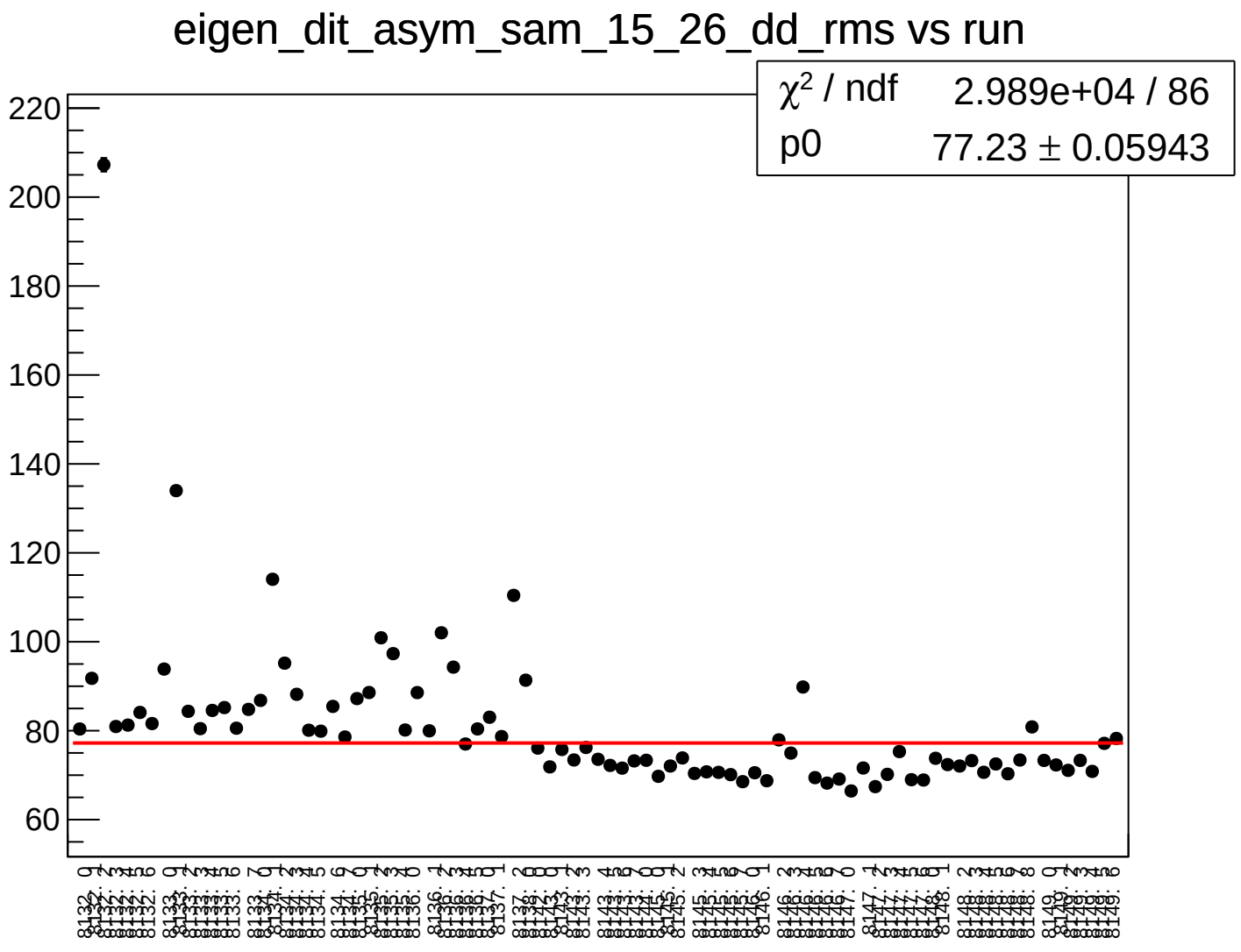

pull1D
Entries 87
Mean 0.02671
Std Dev 0.9694

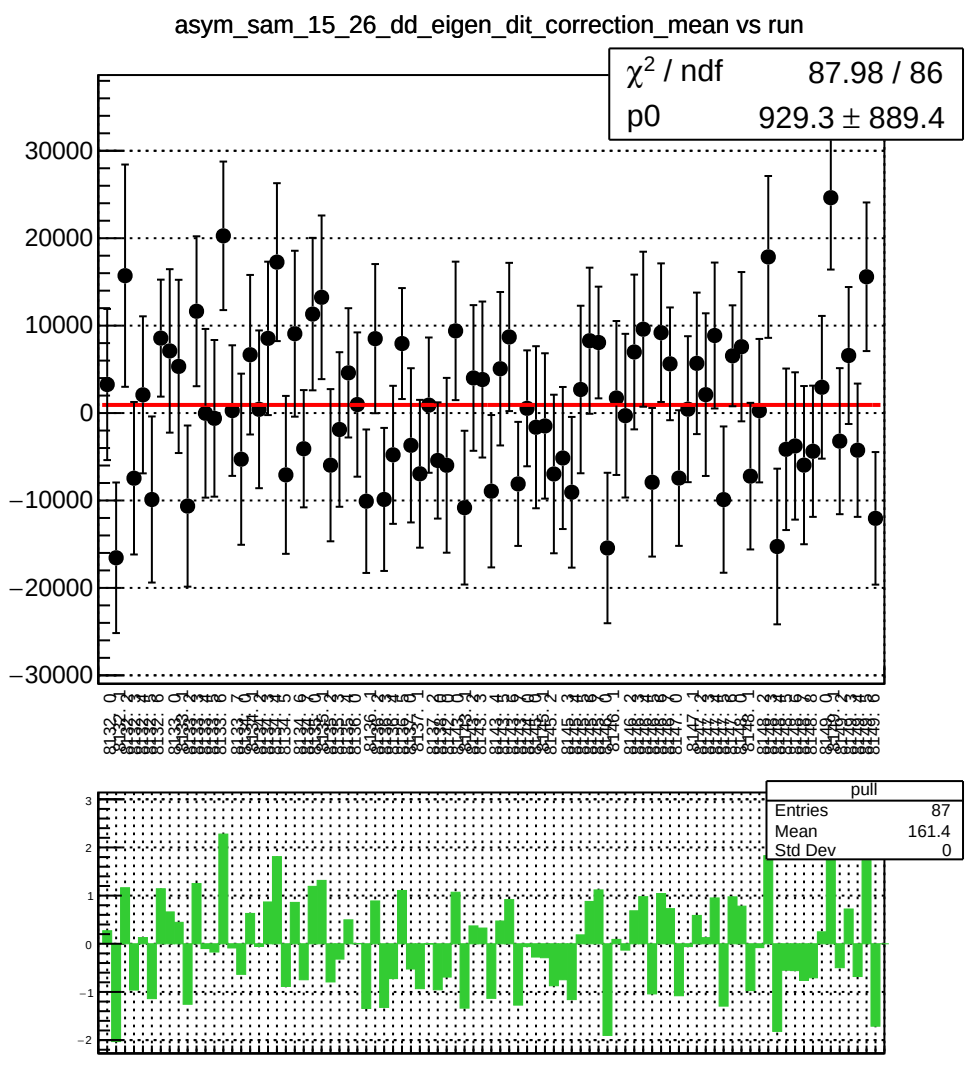

dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 2.989e+04 / 86
p0 77.23 ± 0.05943
220
200
180
160
140
120
100
80
60

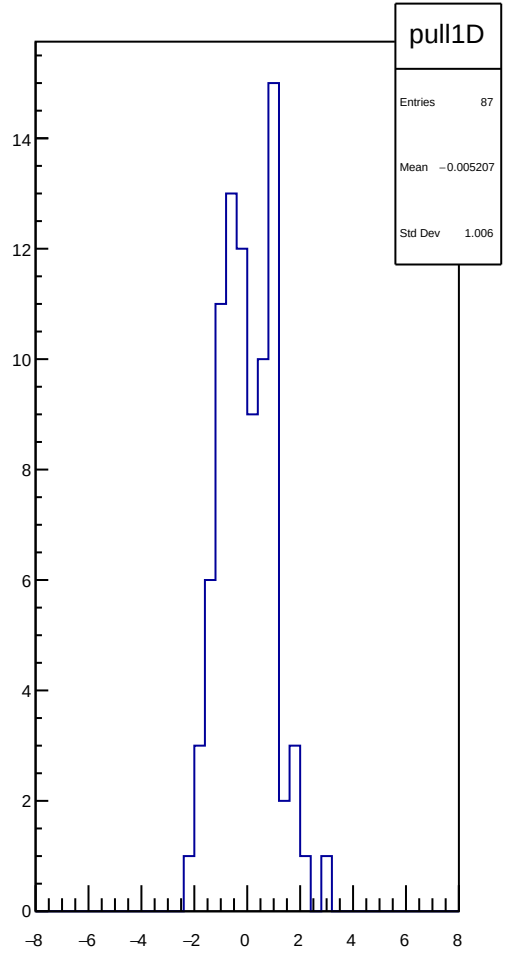

asym_sam_15_26_dd_dit_correction_mean vs run
χ² / ndf 87.98 / 86
p0 929.3 ± 889.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean 161.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.005208
Std Dev 1.006
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

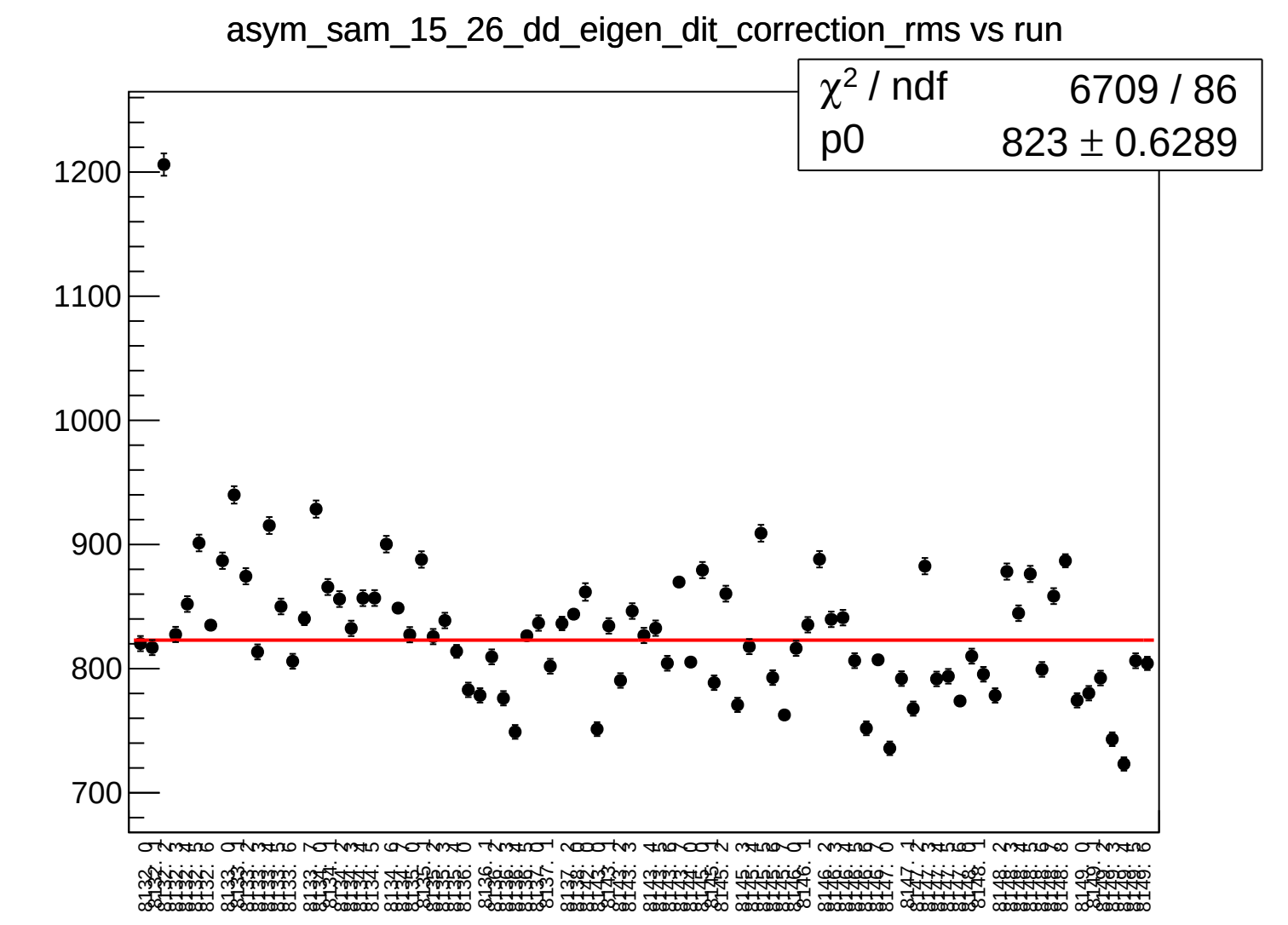

asym_sam_15_26_dd_dit_correction_rms vs run
χ² / ndf 6709 / 86
p0 823 ± 0.6289
1200
1100
1000
900
800
700

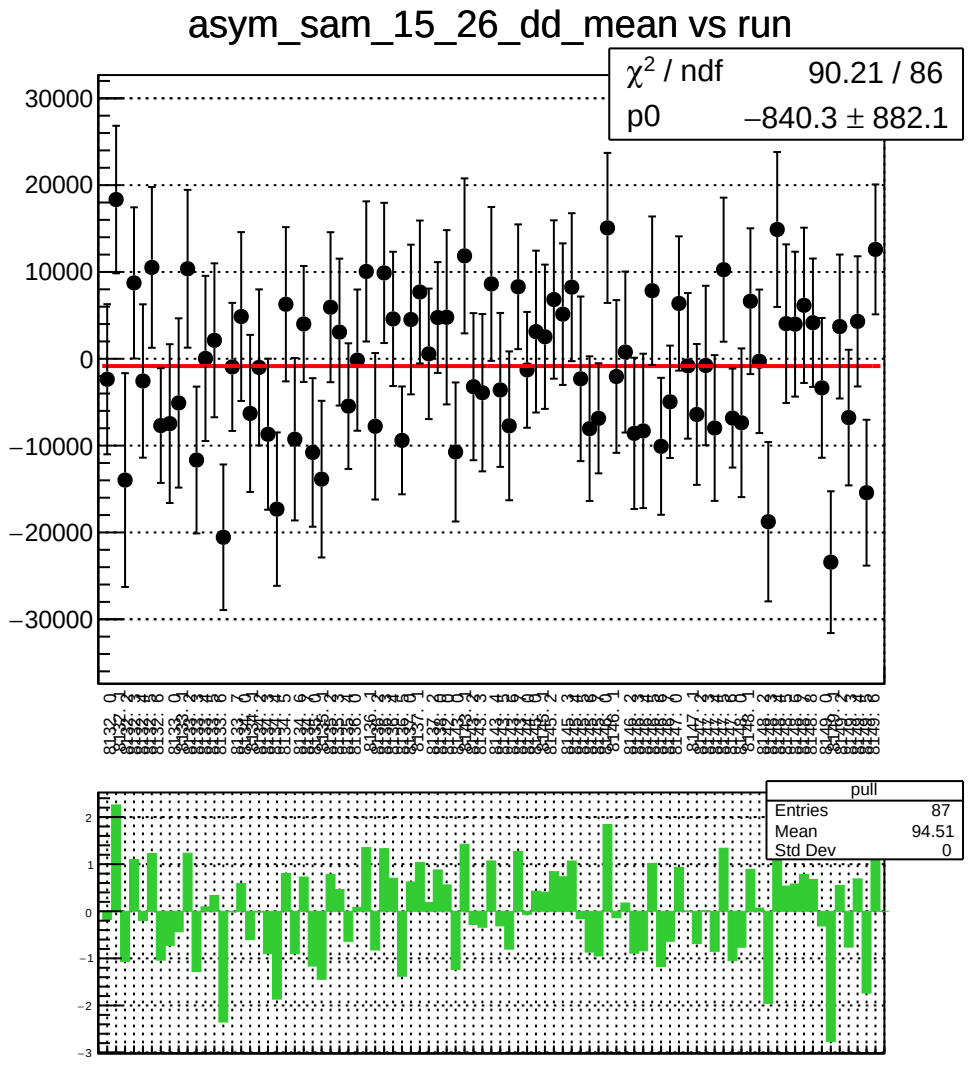

eigen_dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 81.82 / 86
p0 81.15 ± 84.05
pull
Entries 87
Mean −32.53
Std Dev 0
pull1D
Entries 87
Mean 0.02671
Std Dev 0.9694

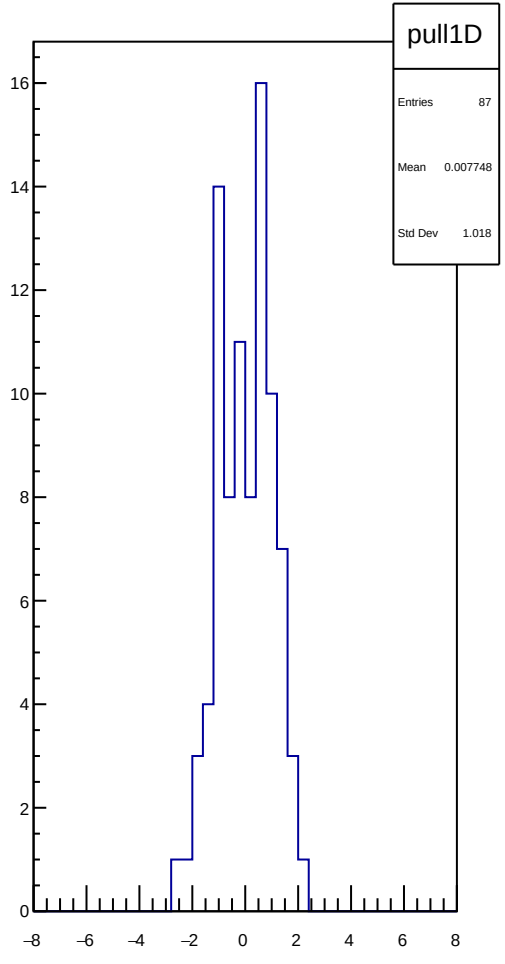

eigen_dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 2.989e+04 / 86
p0 77.23 ± 0.05943
220
200
180
160
140
120
100
80
60

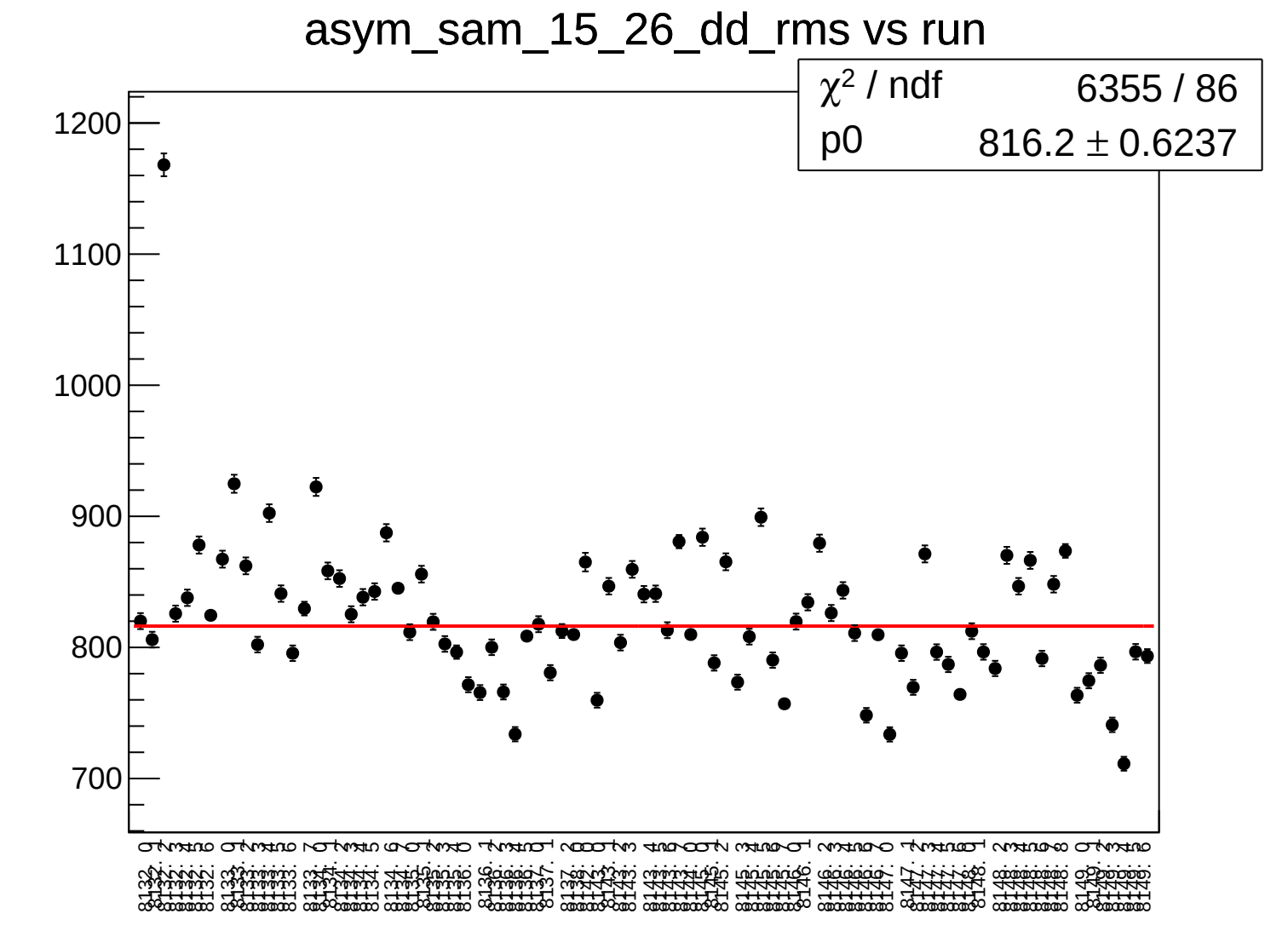

asym_sam_15_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 87.98 / 86
p0 929.3 ± 889.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean 161.4
Std Dev 0
3
2
1
0
−1
−2

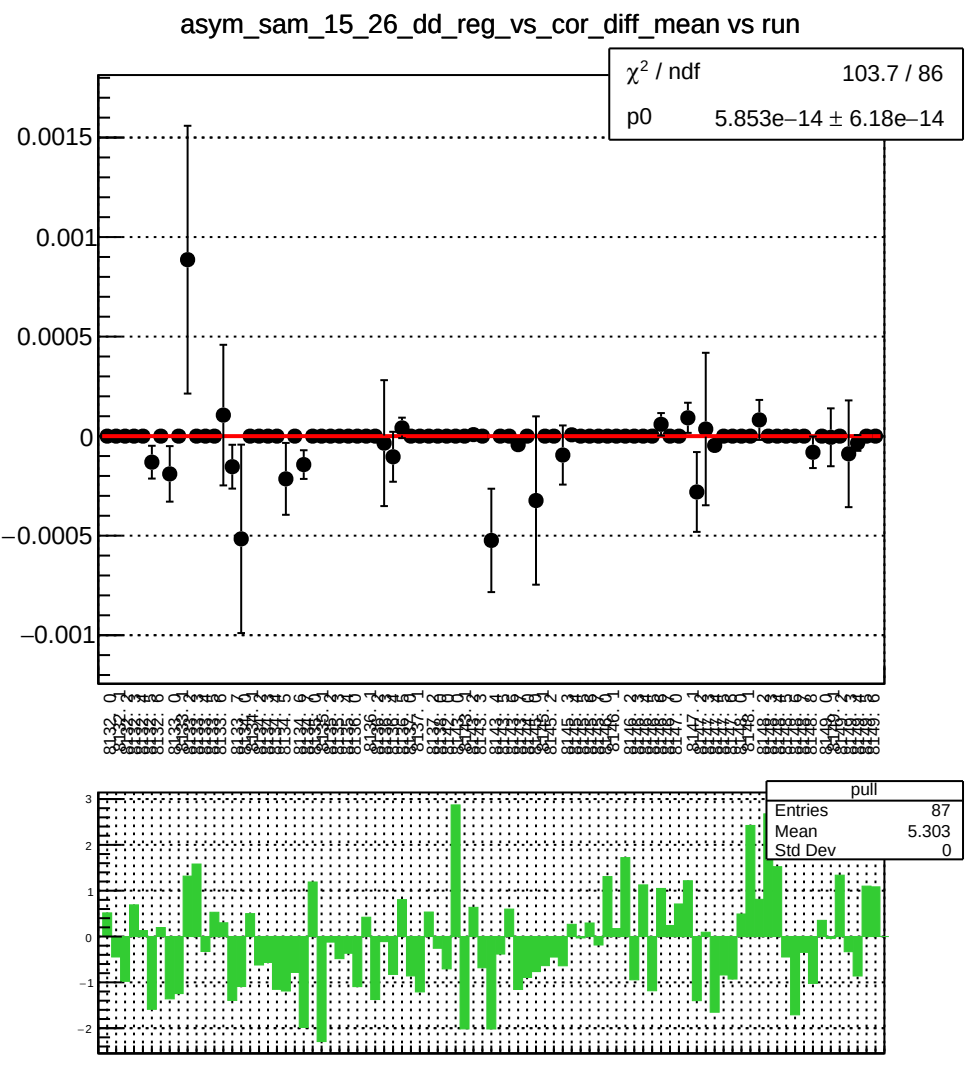

pull1D
Entries 87
Mean −0.005207
Std Dev 1.006
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

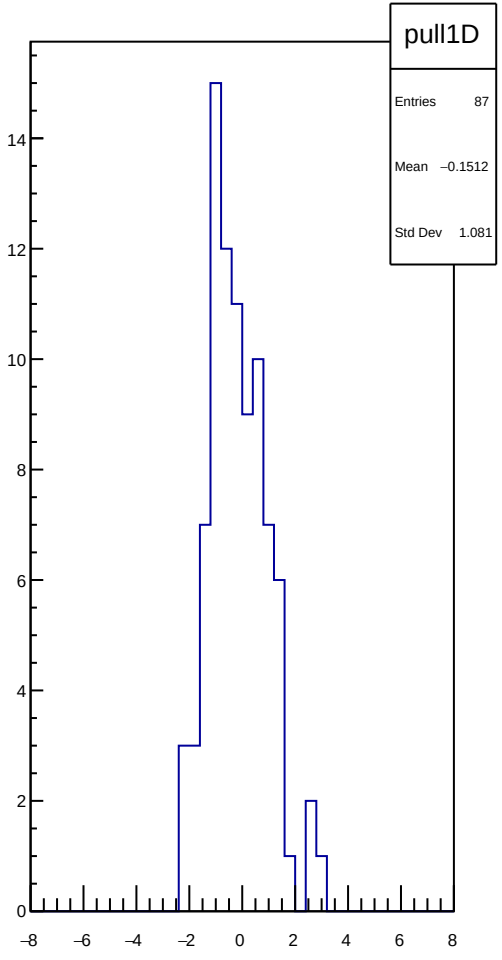

asym_sam_15_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 6709 / 86
p0 823 ± 0.6289
1200
1100
1000
900
800
700

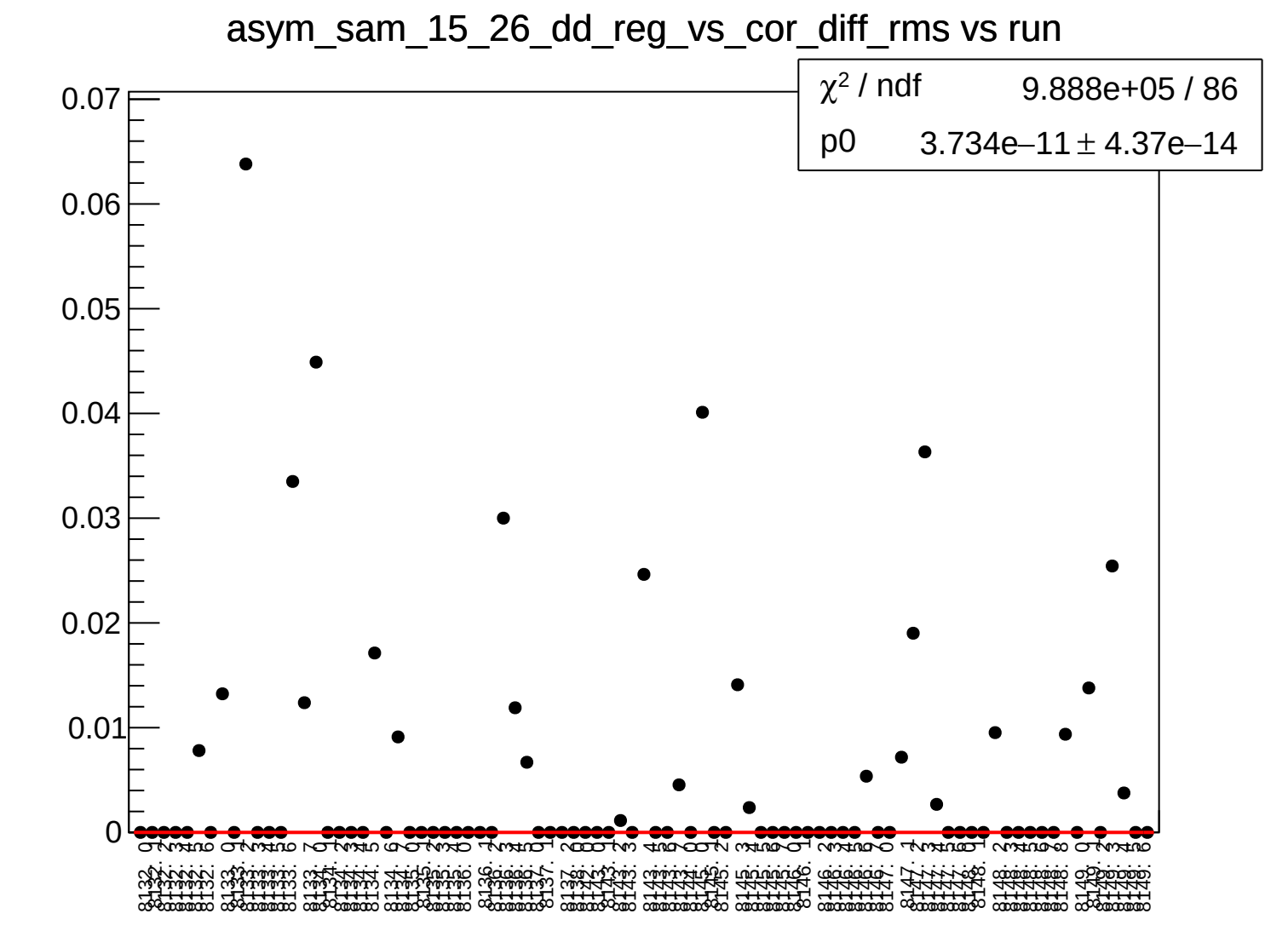

asym_sam_15_26_dd_mean vs run
χ² / ndf 90.21 / 86
p0 −840.3 ± 882.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean 94.51
Std Dev 0
2
1
0
−1
−2
−3

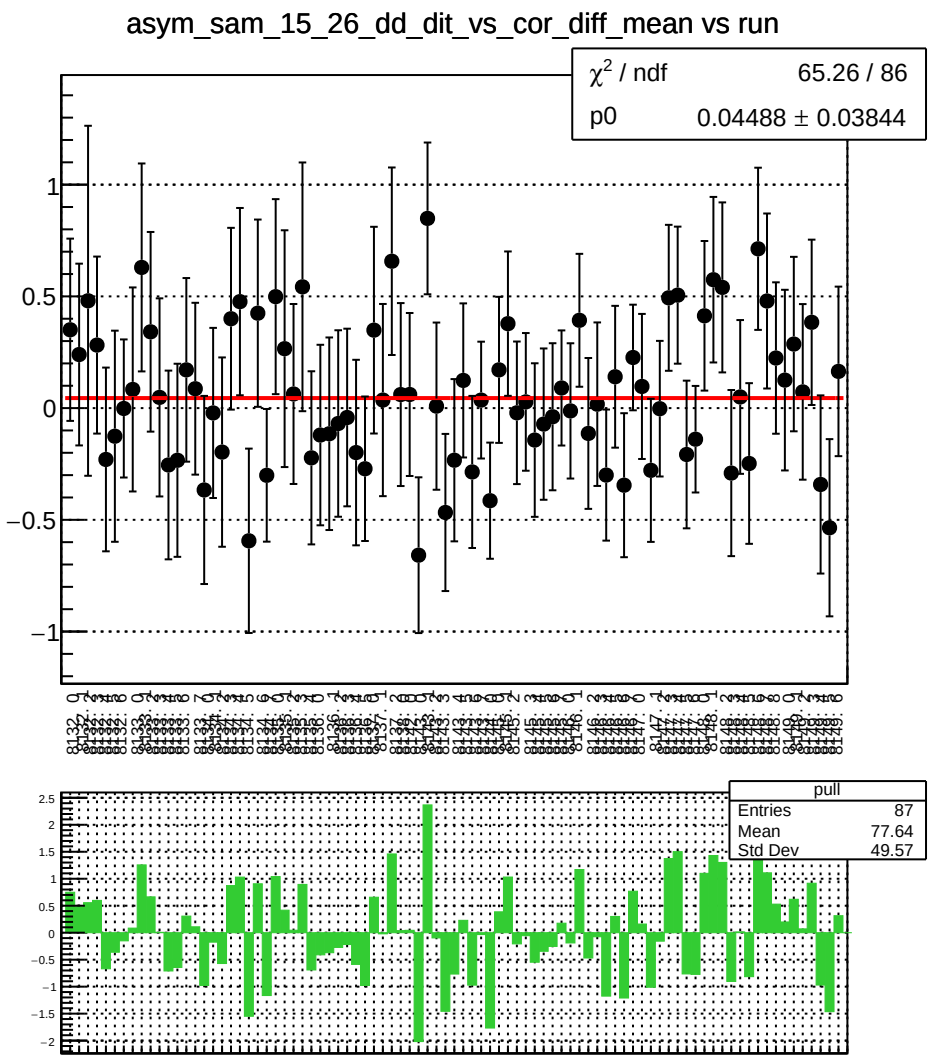

pull1D
Entries 87
Mean 0.007748
Std Dev 1.018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

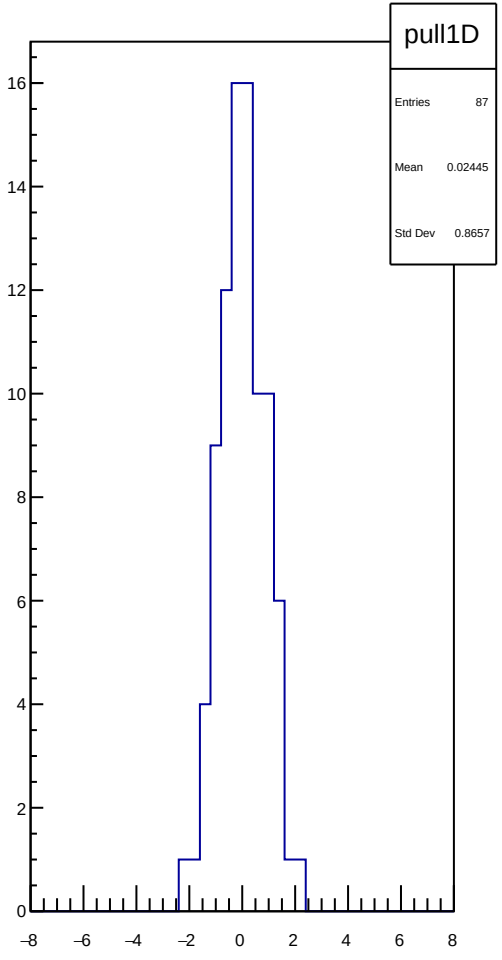

asym_sam_15_26_dd_rms vs run
χ² / ndf 6355 / 86
p0 816.2 ± 0.6237
1200
1100
1000
900
800
700

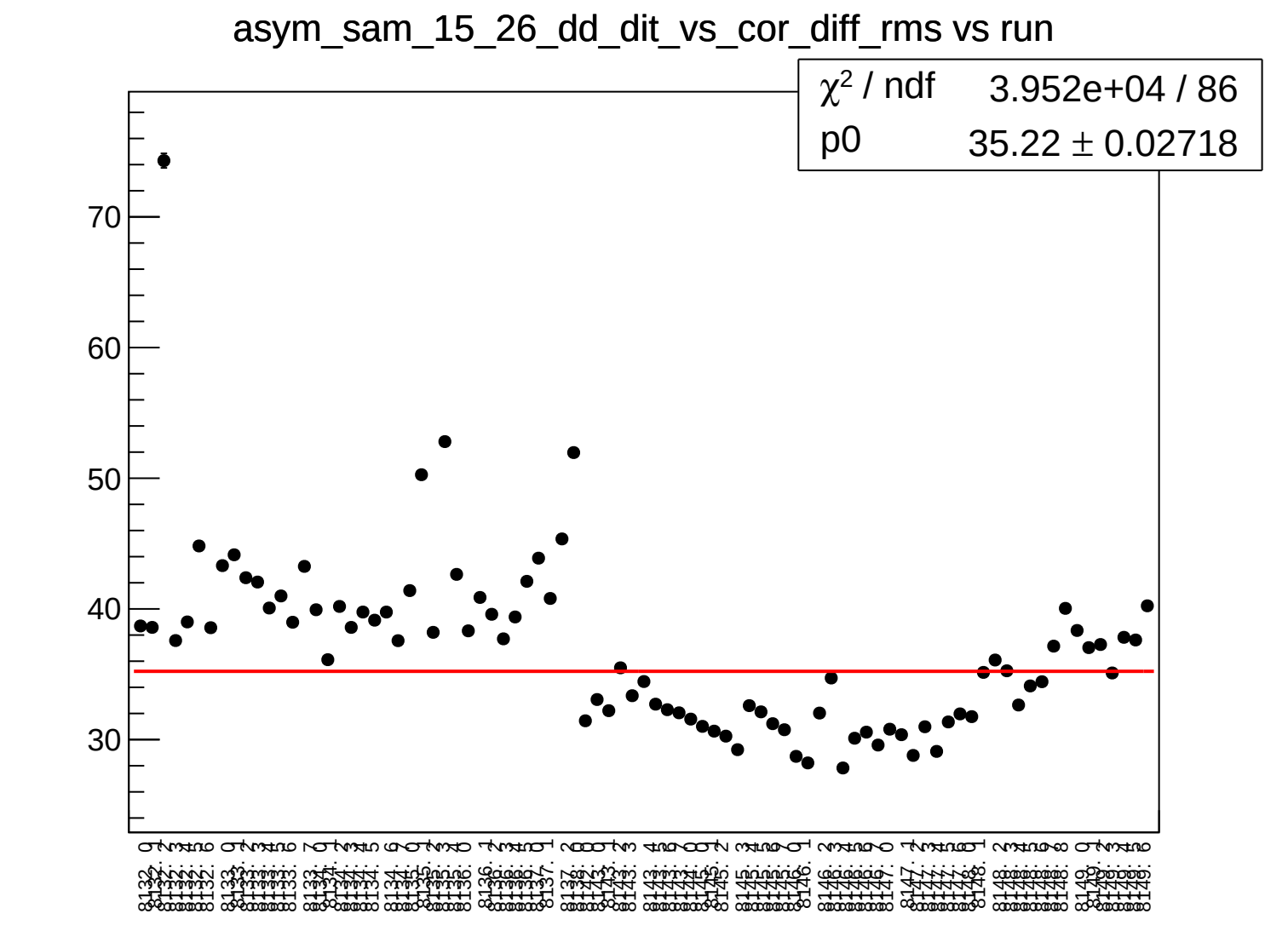

asym_sam_15_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 103.7 / 86
p0 5.853e−14 ± 6.18e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 87
Mean 5.303
Std Dev 0
3
2
1
0
−1
−2

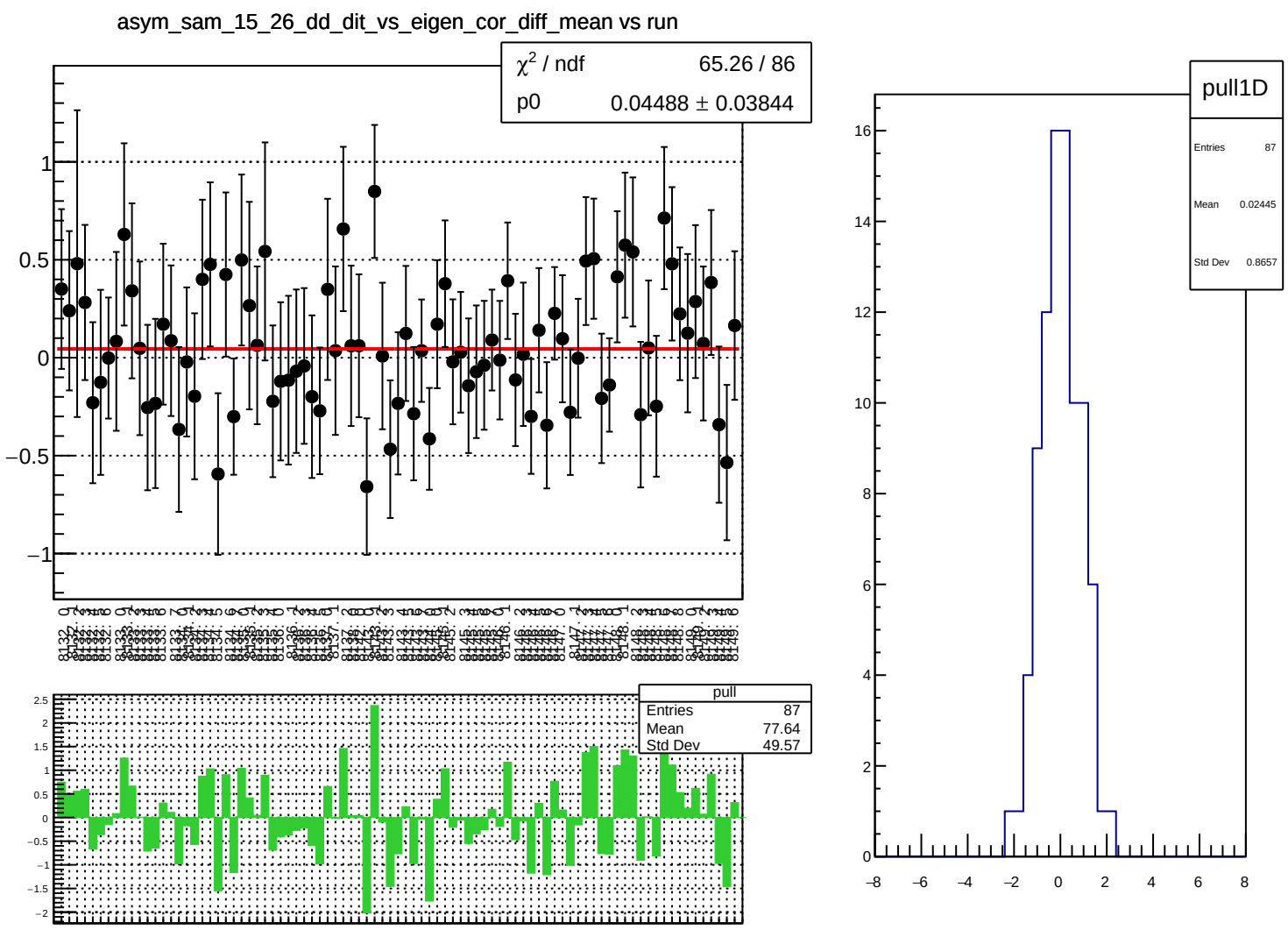

pull1D
Entries 87
Mean −0.1512
Std Dev 1.081
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

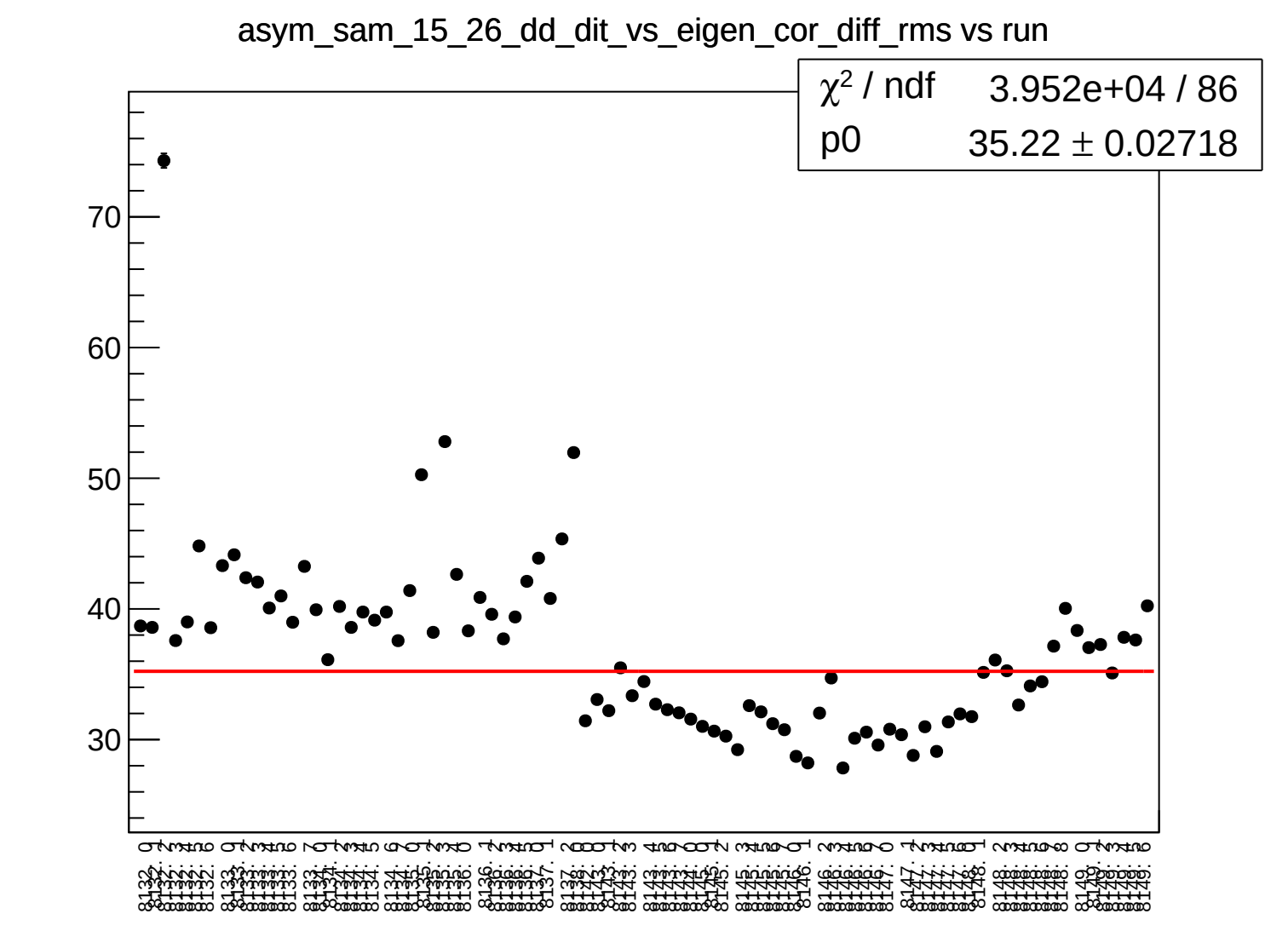

asym_sam_15_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.888e+05 / 86
p0 3.734e−11 ± 4.37e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

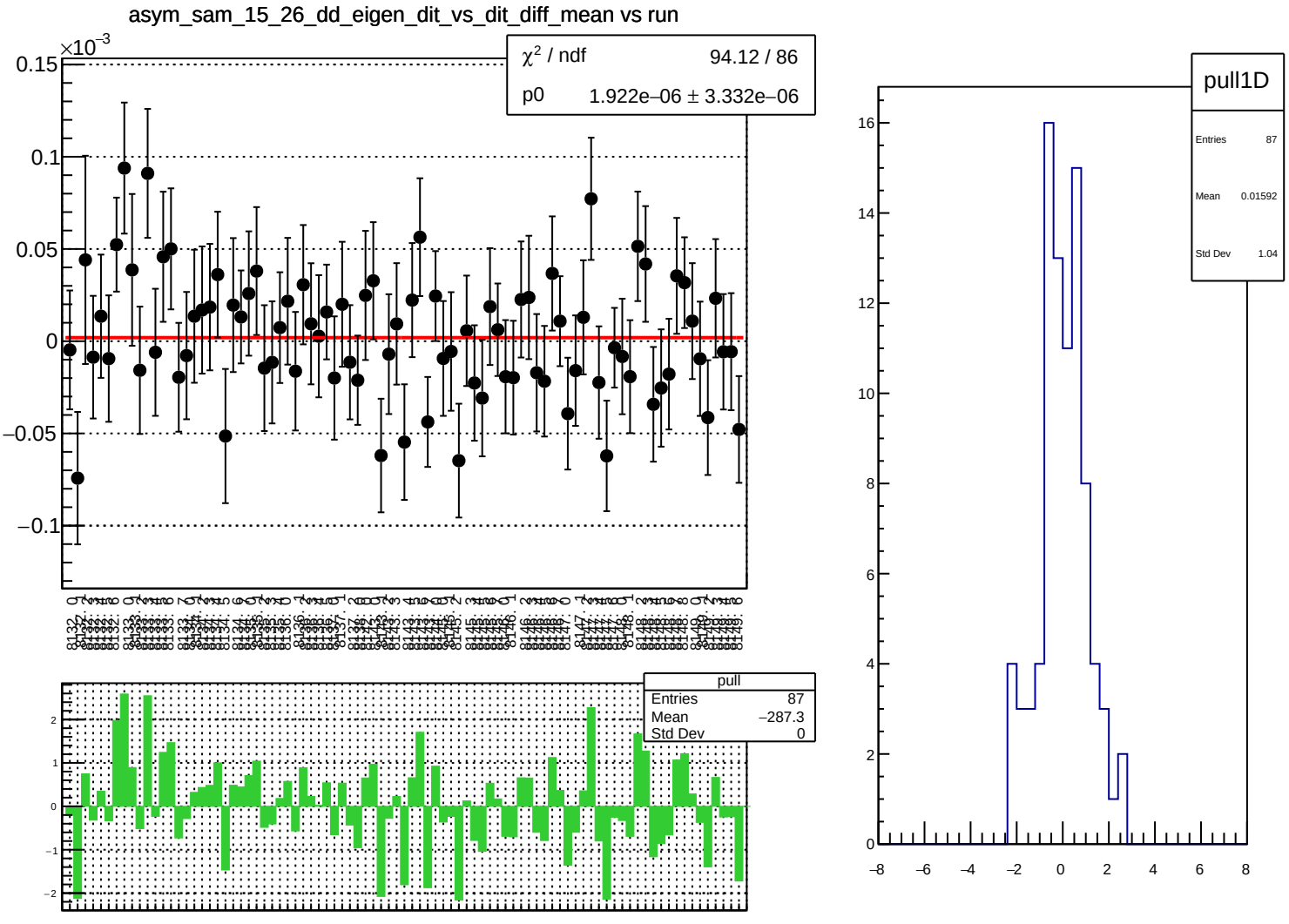

asym_sam_15_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 65.26 / 86
p0 0.04488 ± 0.03844
pull
Entries 87
Mean 77.64
Std Dev 49.57

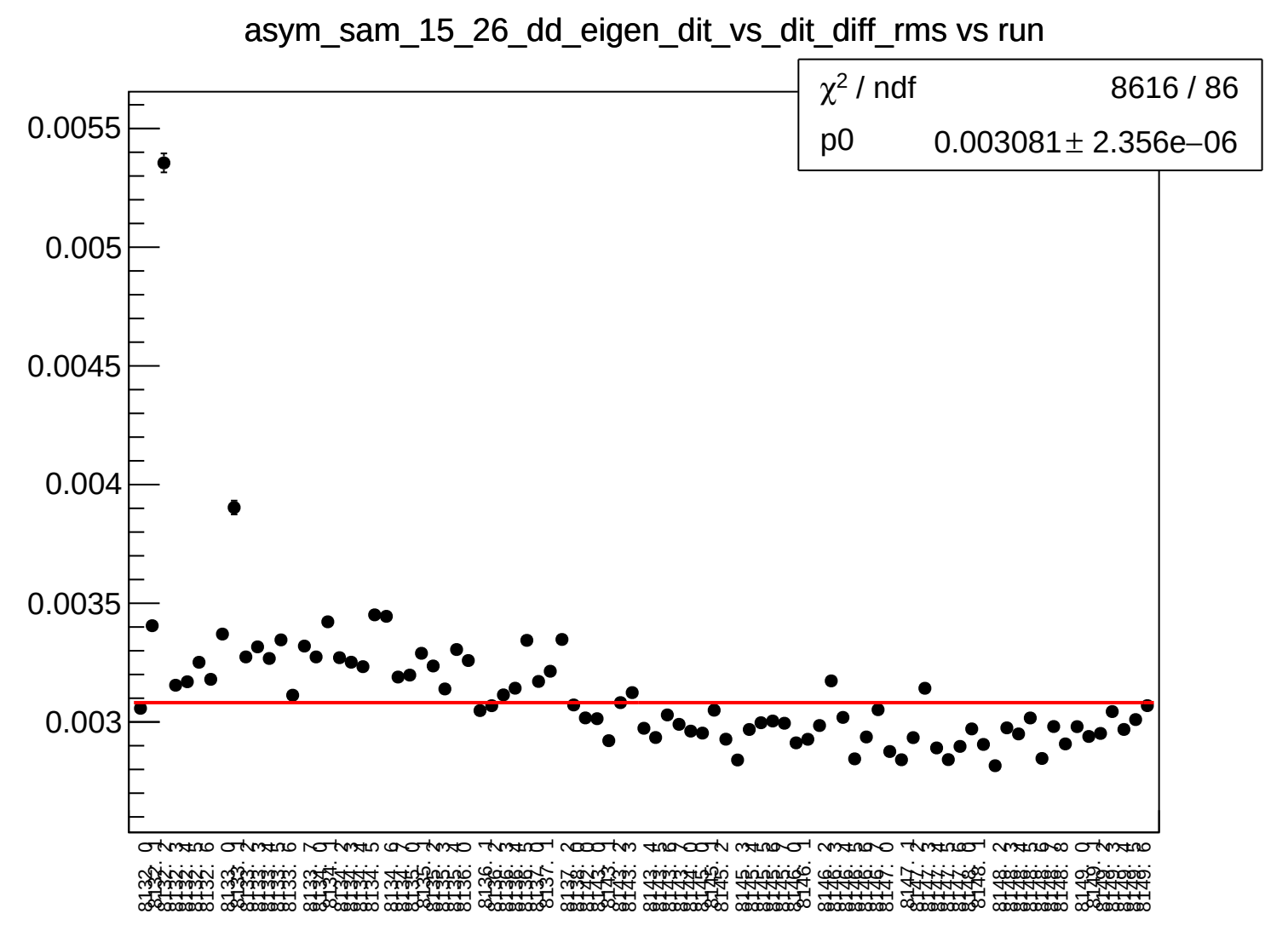

pull1D
Entries 87
Mean 0.02445
Std Dev 0.8657

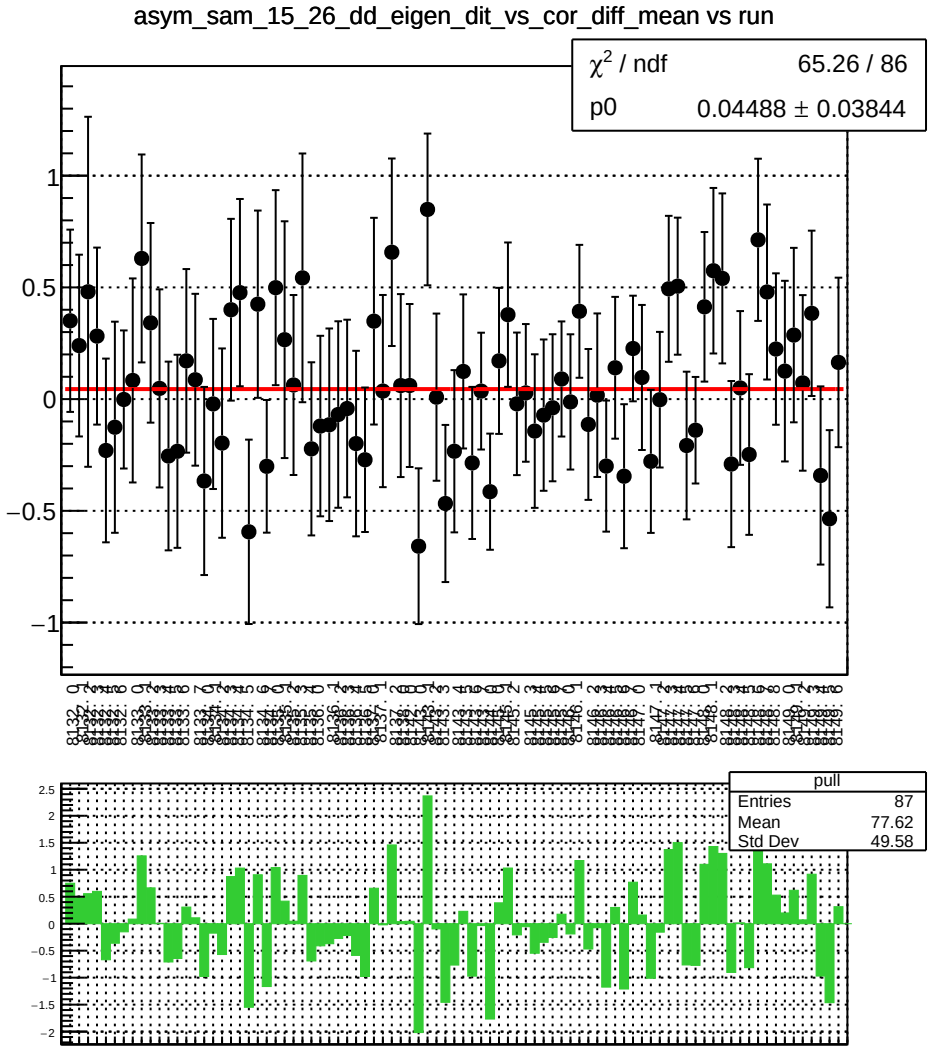

asym_sam_15_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.952e+04 / 86
p0 35.22 ± 0.02718
70
60
50
40
30

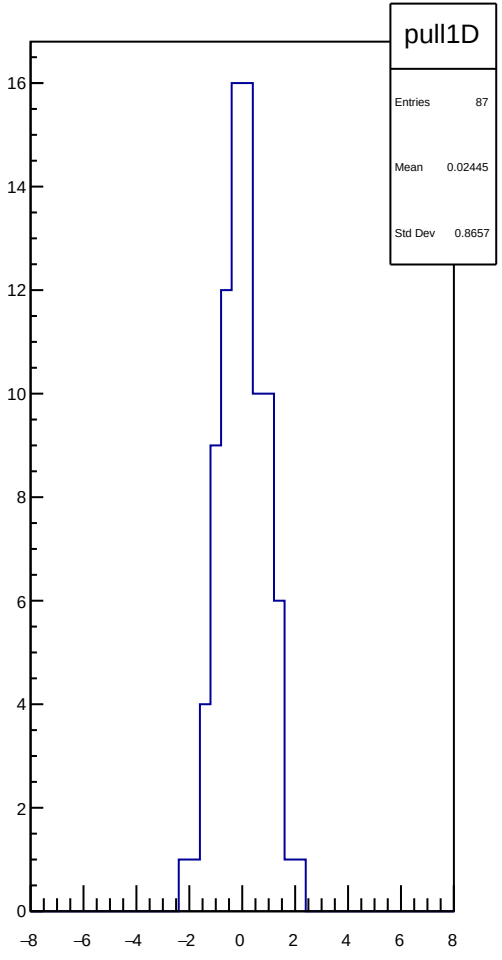

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.26 / 86
p0 0.04488 ± 0.03844
pull
Entries 87
Mean 77.64
Std Dev 49.57
pull1D
Entries 87
Mean 0.02445
Std Dev 0.8657

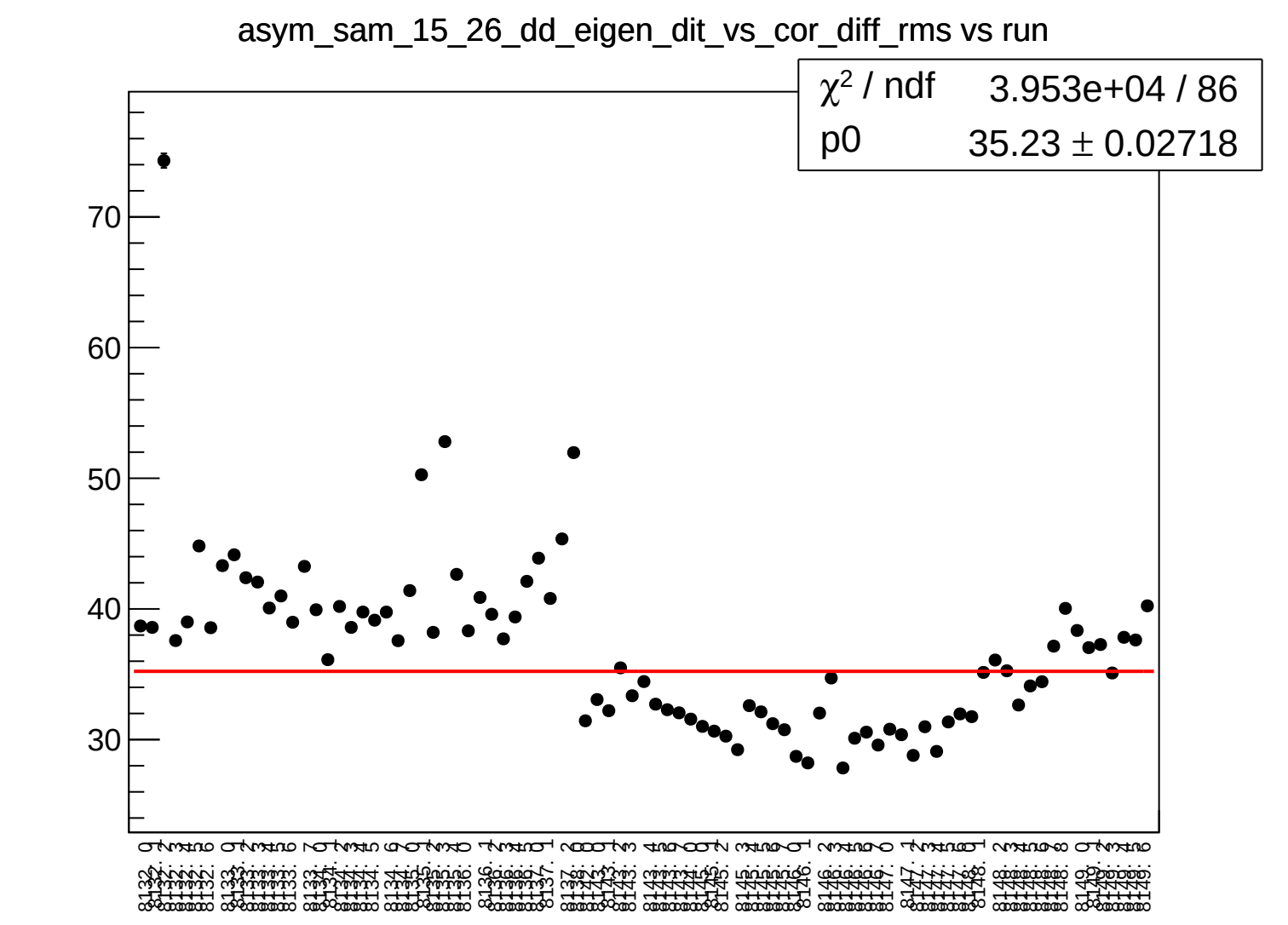

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.952e+04 / 86
p0 35.22 ± 0.02718
70
60
50
40
30

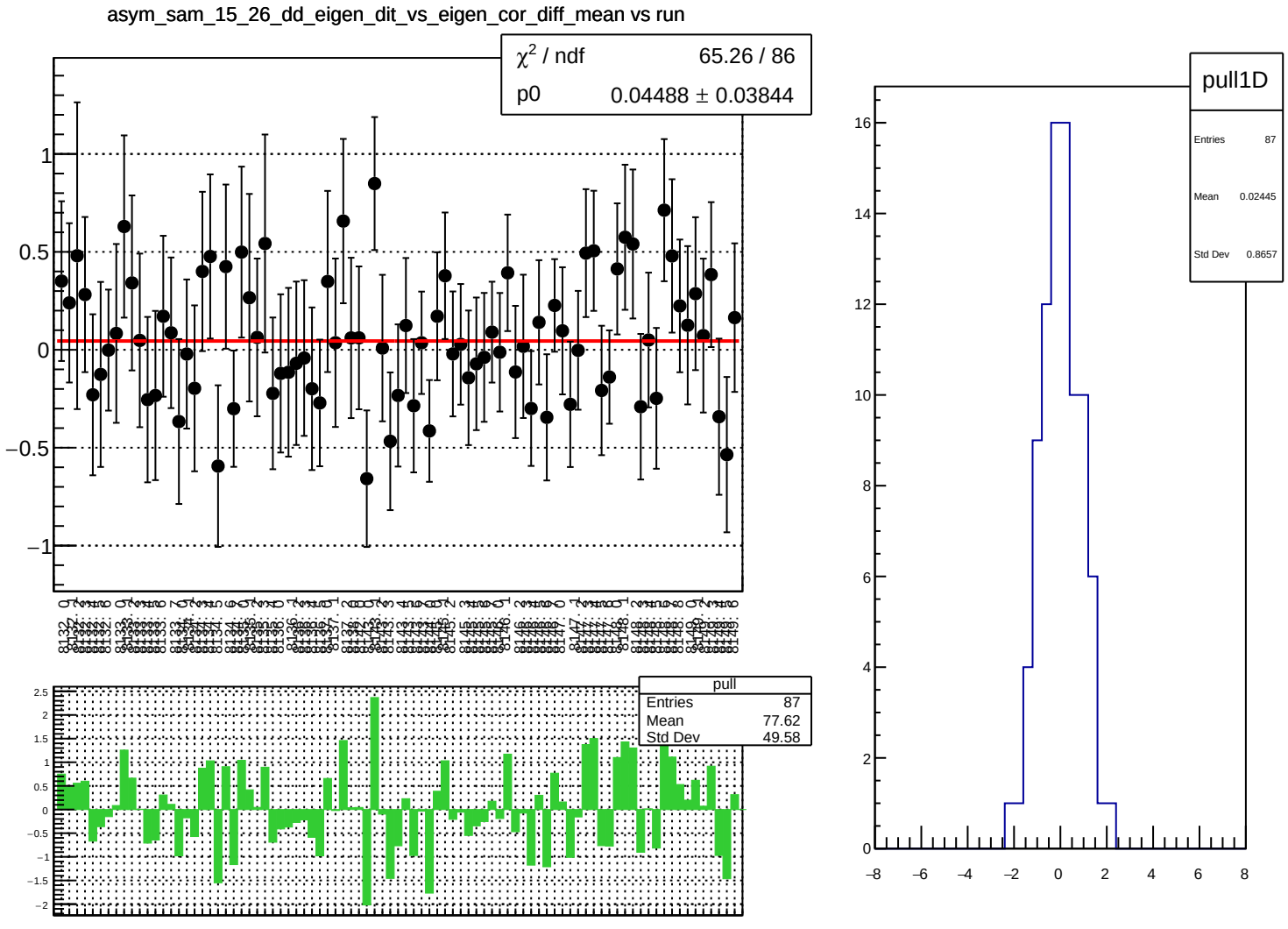

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 94.12 / 86
p0 1.922e−06 ± 3.332e−06
pull
Entries 87
Mean −287.3
Std Dev 0
pull1D
Entries 87
Mean 0.01592
Std Dev 1.04

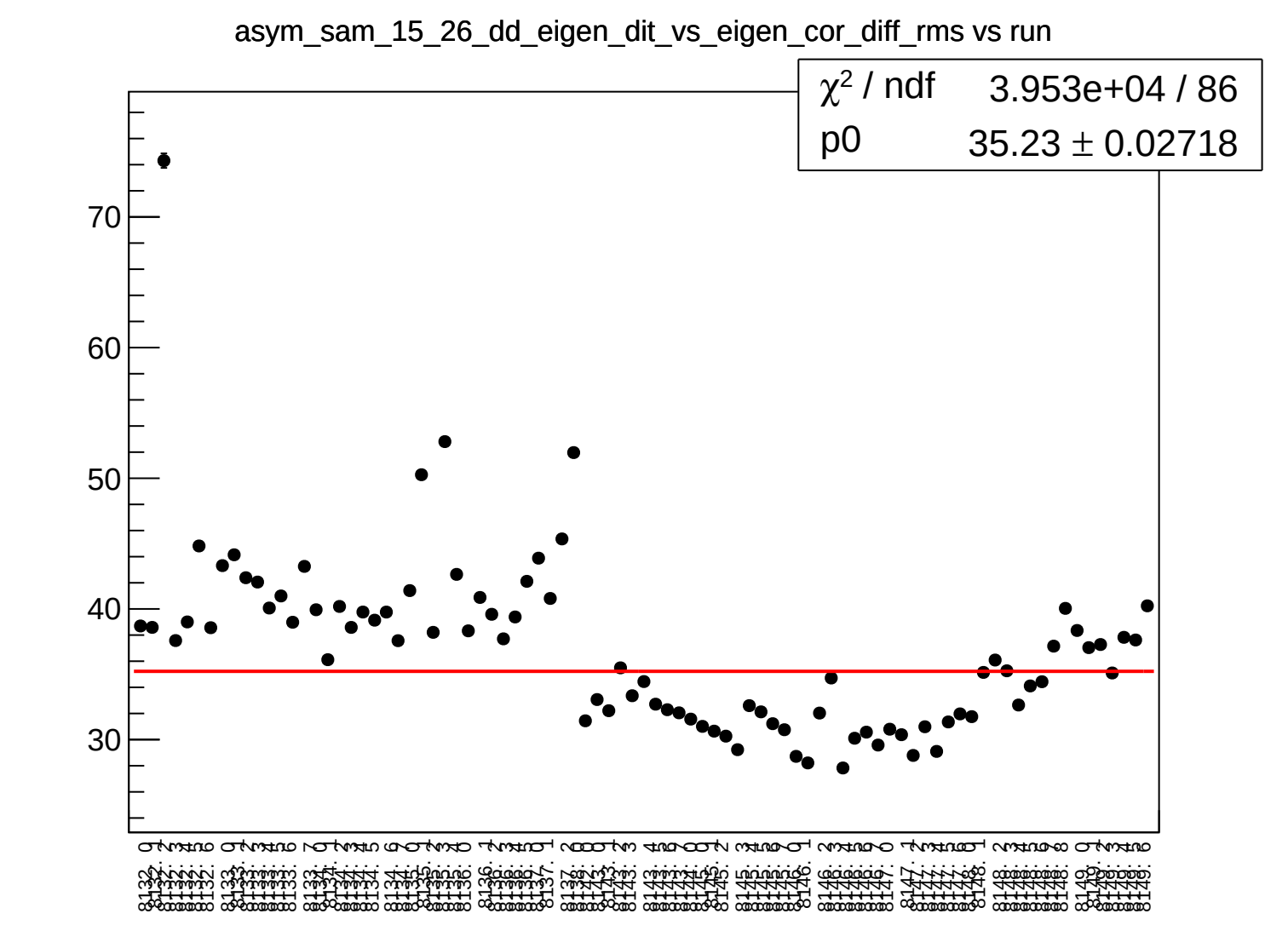

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8616 / 86
p0 0.003081 ± 2.356e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003

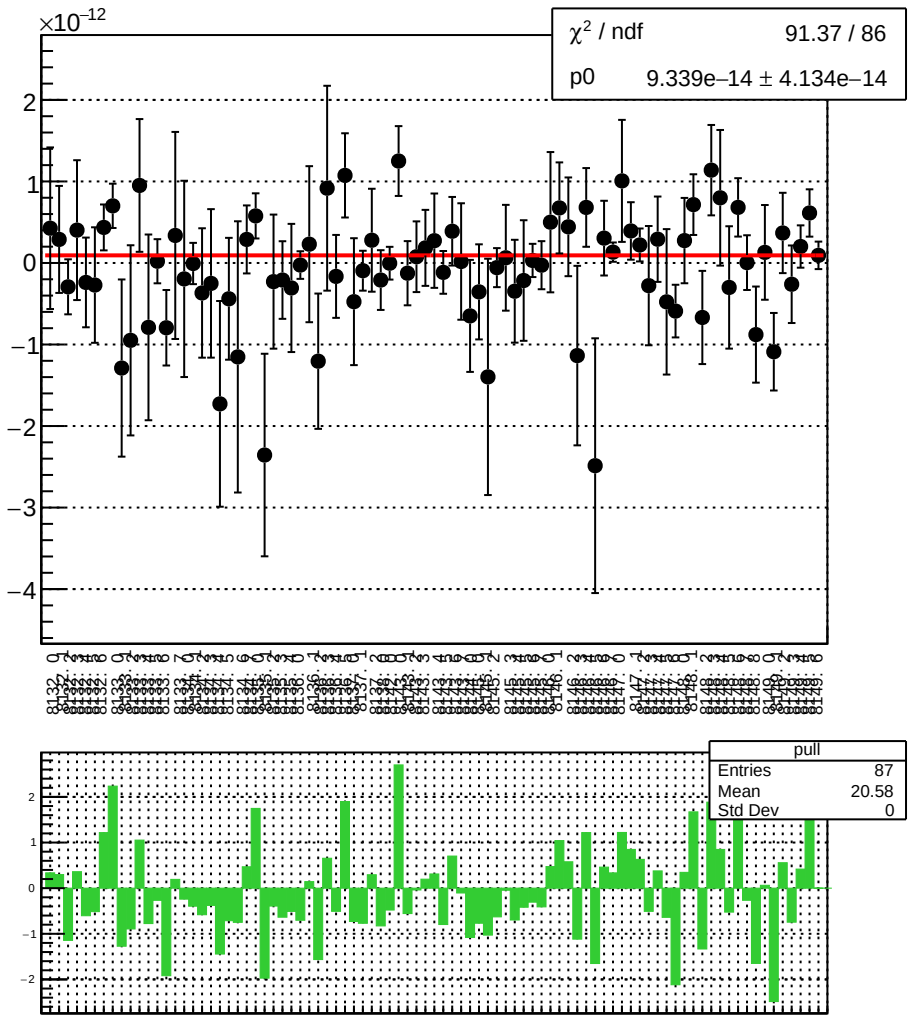

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 65.26 / 86
p0 0.04488 ± 0.03844
pull
Entries 87
Mean 77.62
Std Dev 49.58

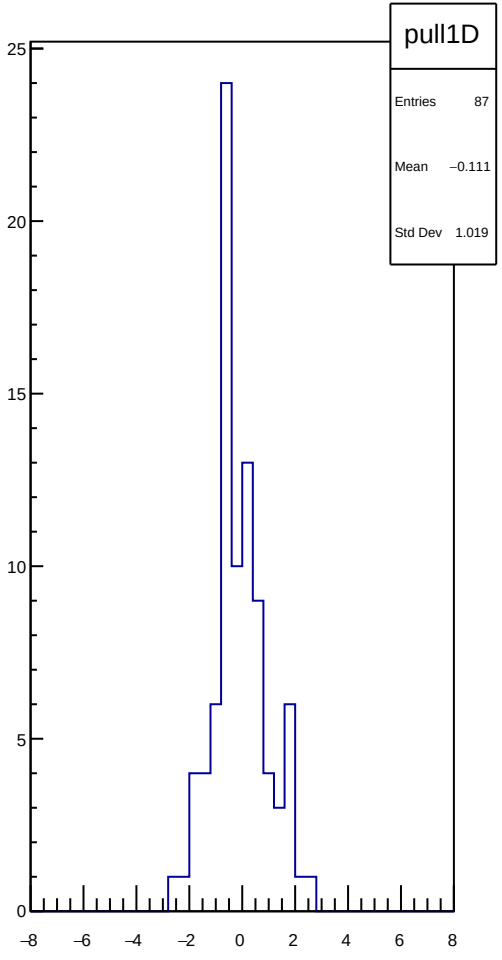

pull1D
Entries 87
Mean 0.02445
Std Dev 0.8657

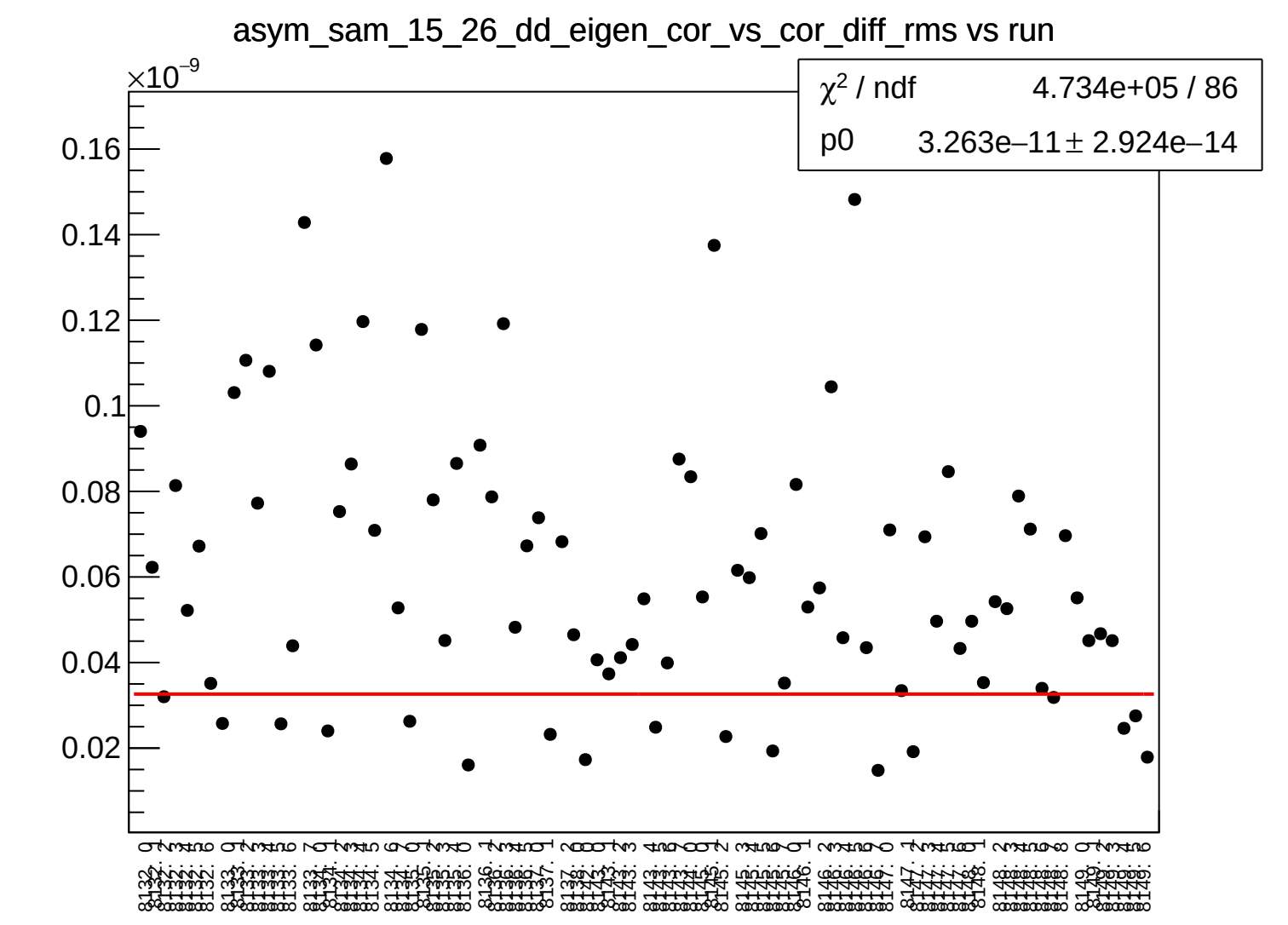

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.953e+04 / 86
p0 35.23 ± 0.02718
70
60
50
40
30

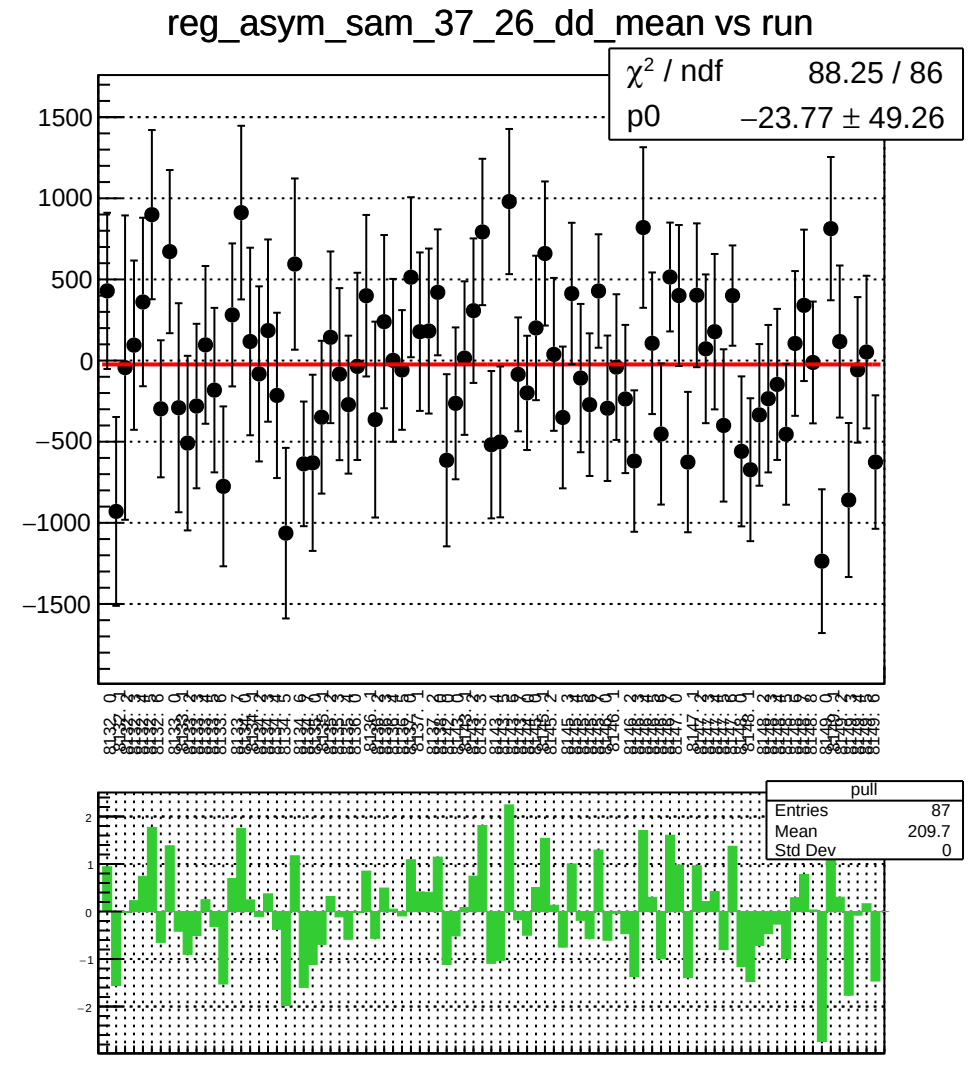

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.26 / 86
p0 0.04488 ± 0.03844
pull
Entries 87
Mean 77.62
Std Dev 49.58
pull1D
Entries 87
Mean 0.02445
Std Dev 0.8657

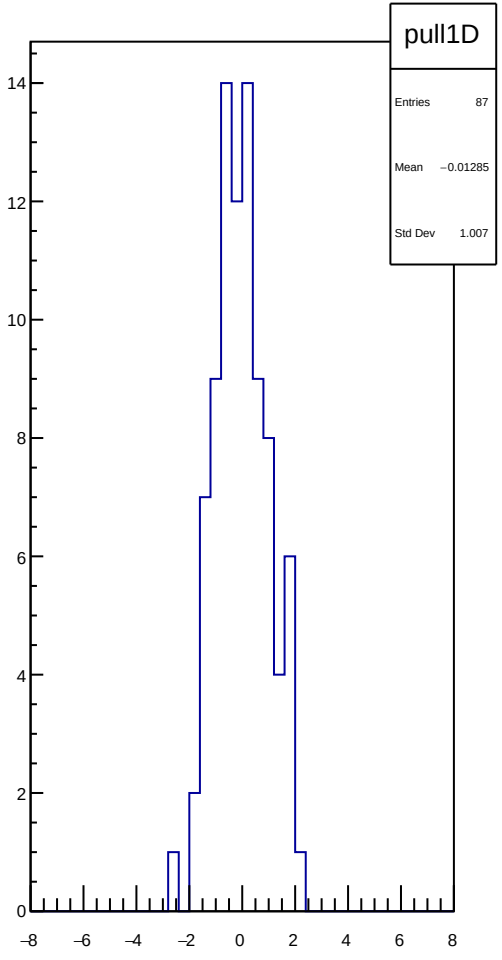

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.953e+04 / 86
p0 35.23 ± 0.02718
70
60
50
40
30

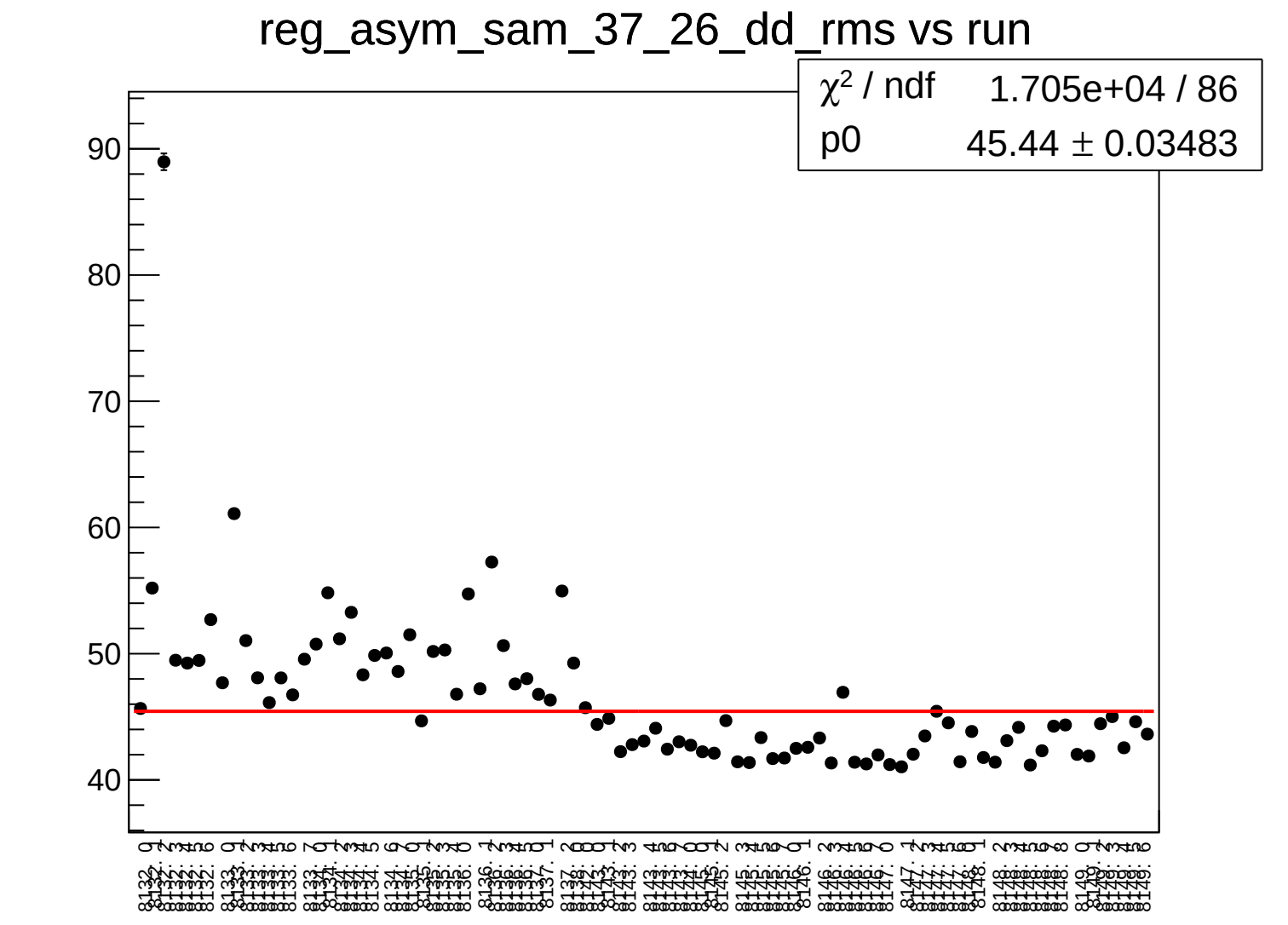

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.37 / 86
p0 9.339e−14 ± 4.134e−14
pull
Entries 87
Mean 20.58
Std Dev 0

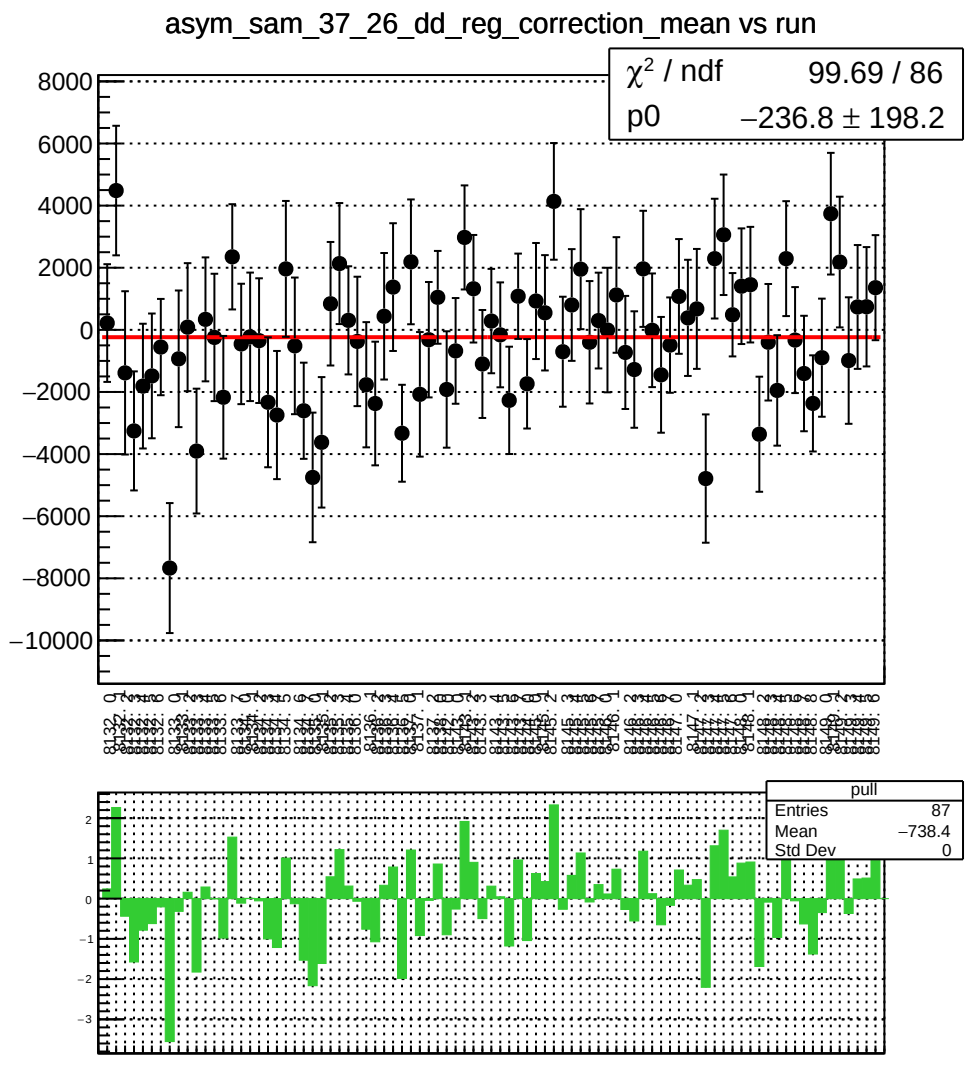

pull1D
Entries 87
Mean −0.111
Std Dev 1.019

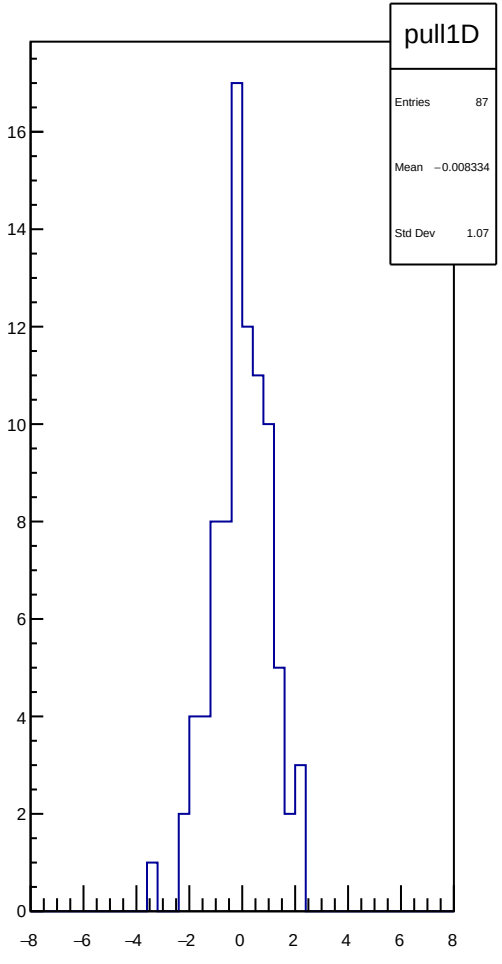

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.734e+05 / 86
p0 3.263e−11 ± 2.924e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

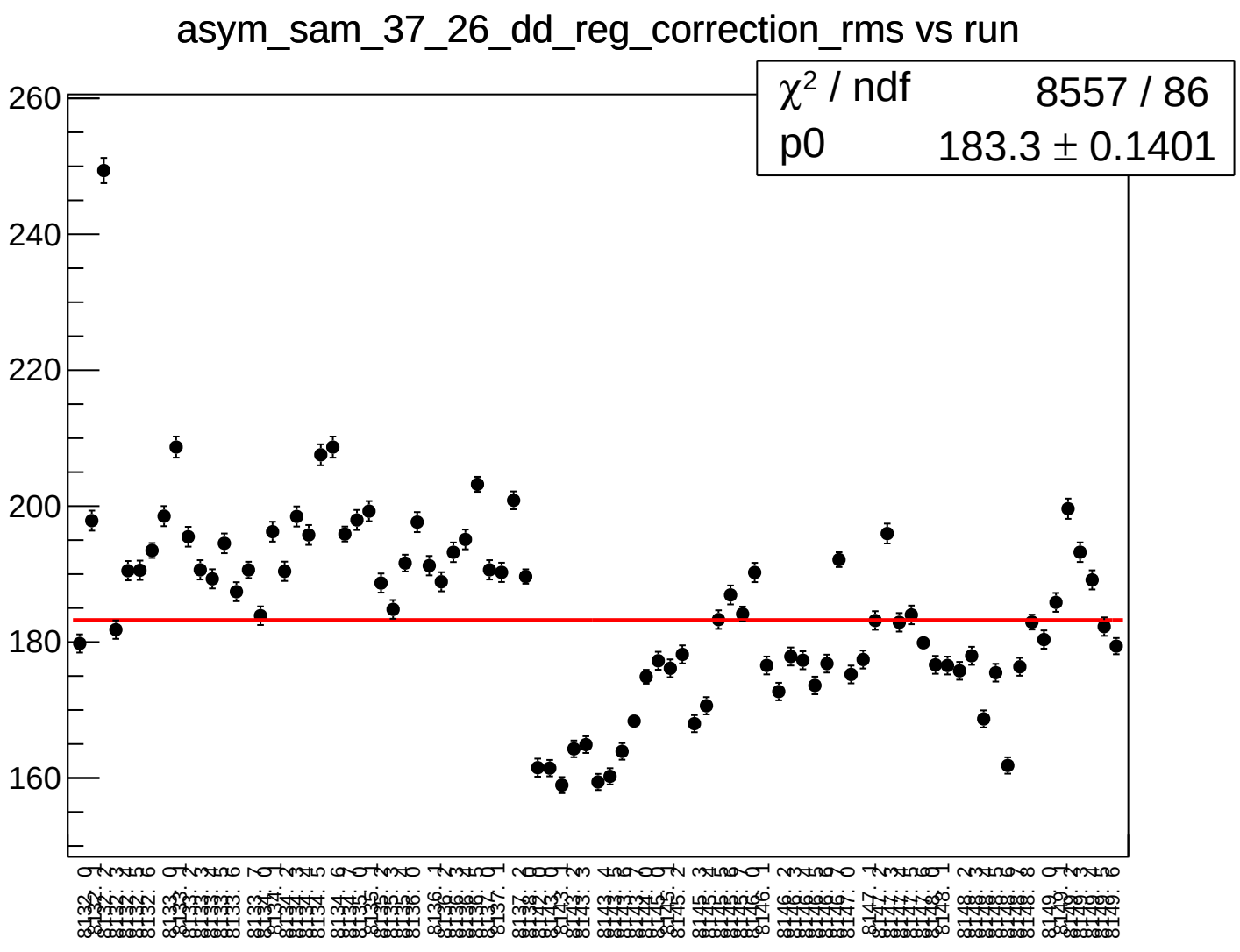

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 88.25 / 86
p0 −23.77 ± 49.26
1500
1000
500
0
−500
−1000
−1500
pull
Entries 87
Mean 209.7
Std Dev 0
2
1
0
−1
−2

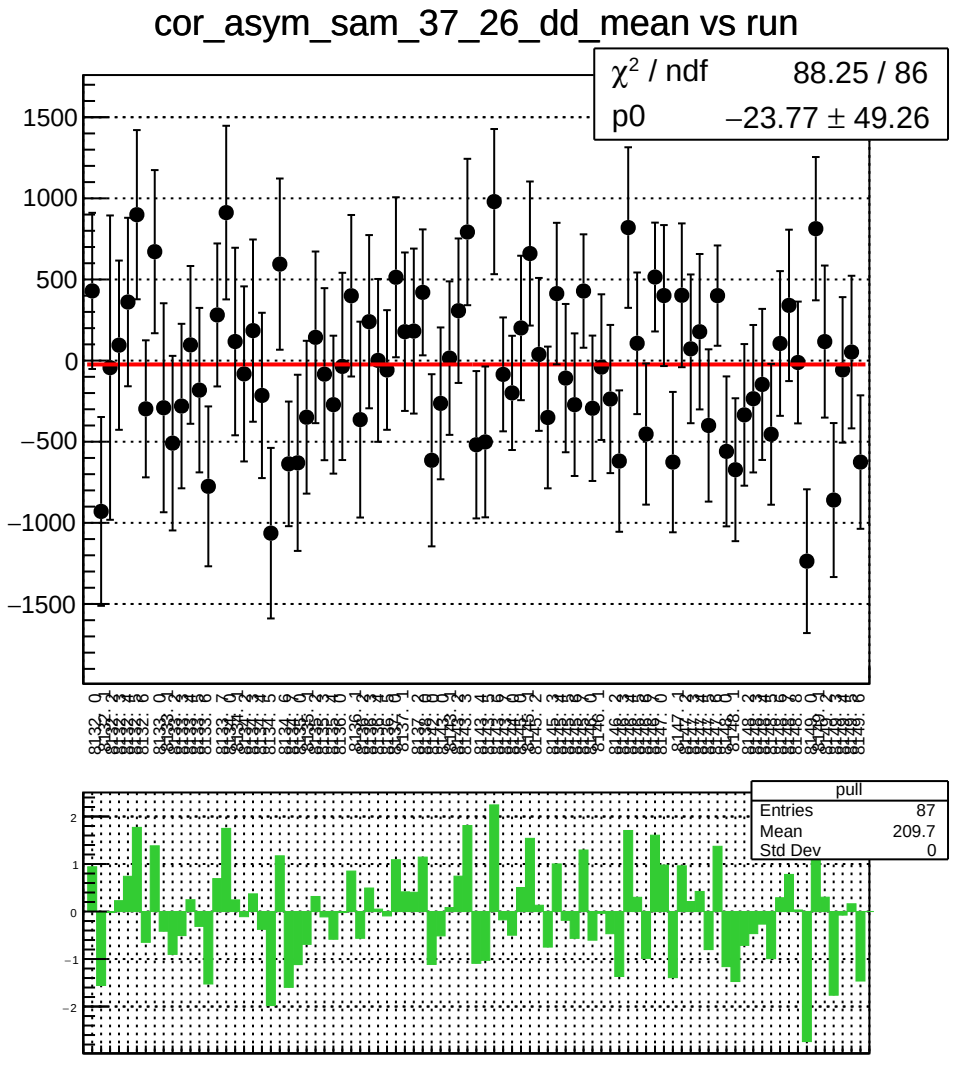

pull1D
Entries 87
Mean −0.01285
Std Dev 1.007
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

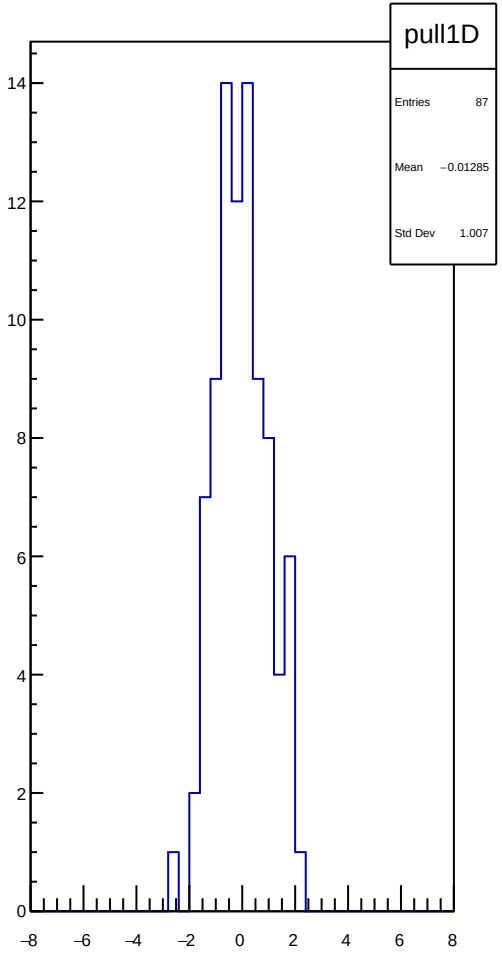

reg_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 1.705e+04 / 86
p0 45.44 ± 0.03483
90
80
70
60
50
40


asym_sam_37_26_dd_reg_correction_mean vs run
χ² / ndf 99.69 / 86
p0 −236.8 ± 198.2
pull
Entries 87
Mean −738.4
Std Dev 0

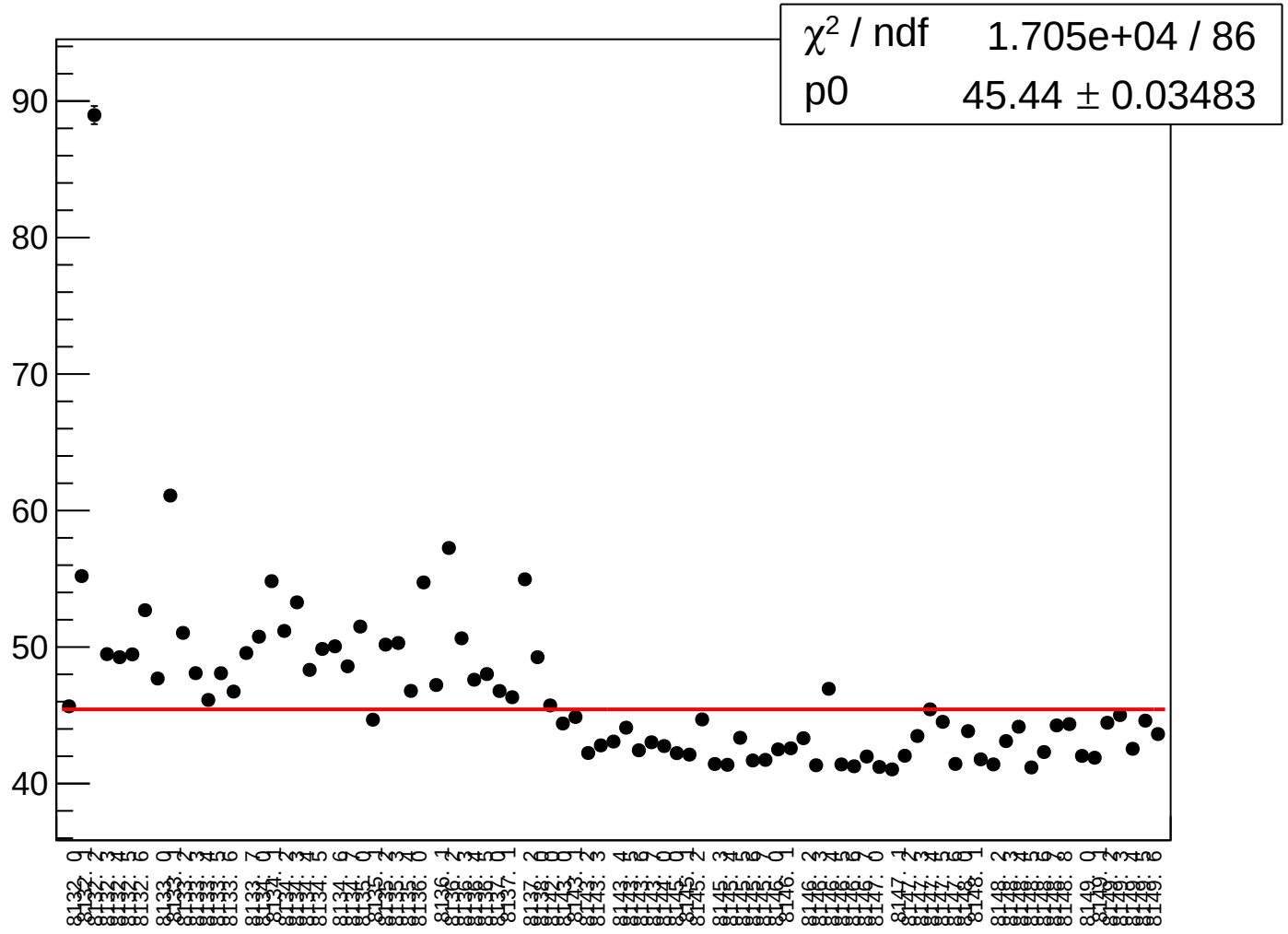

pull1D
Entries 87
Mean −0.008334
Std Dev 1.07

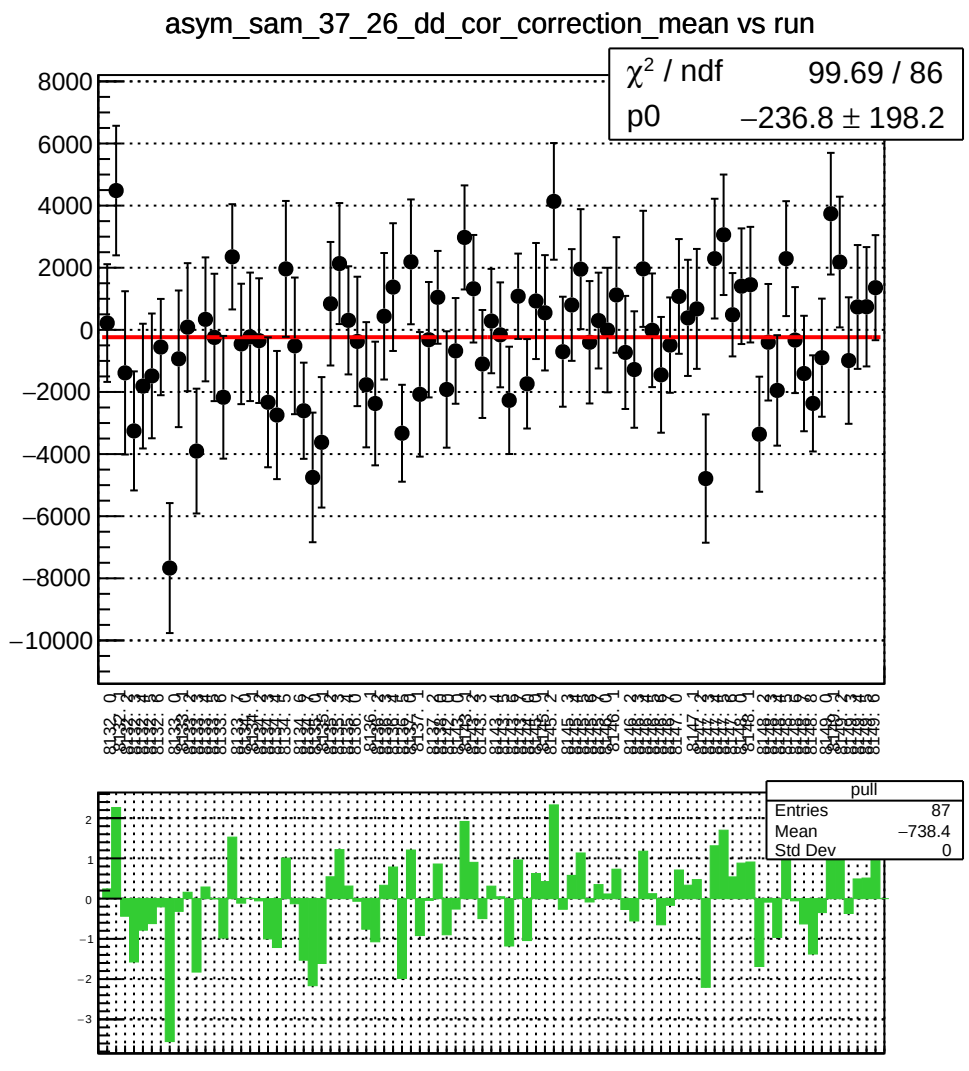

asym_sam_37_26_dd_reg_correction_rms vs run
χ² / ndf 8557 / 86
p0 183.3 ± 0.1401
260
240
220
200
180
160

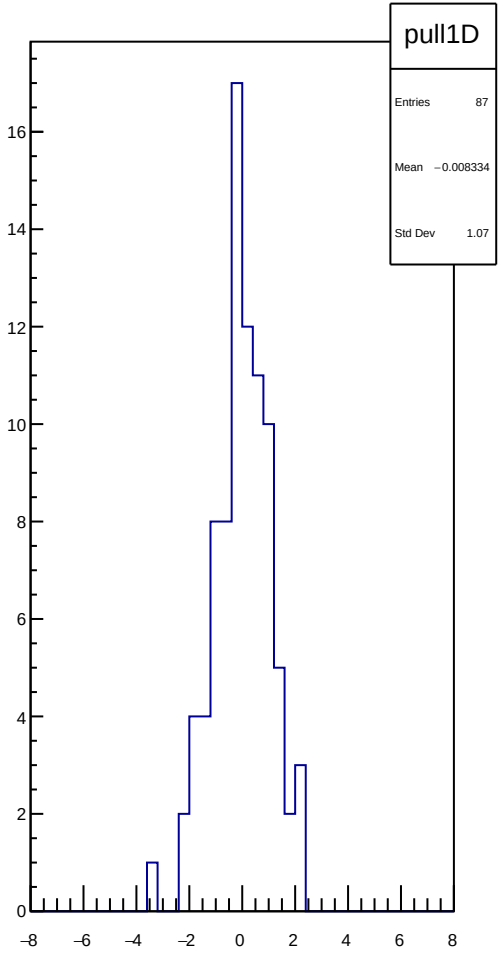

cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 88.25 / 86
p0 −23.77 ± 49.26
pull
Entries 87
Mean 209.7
Std Dev 0

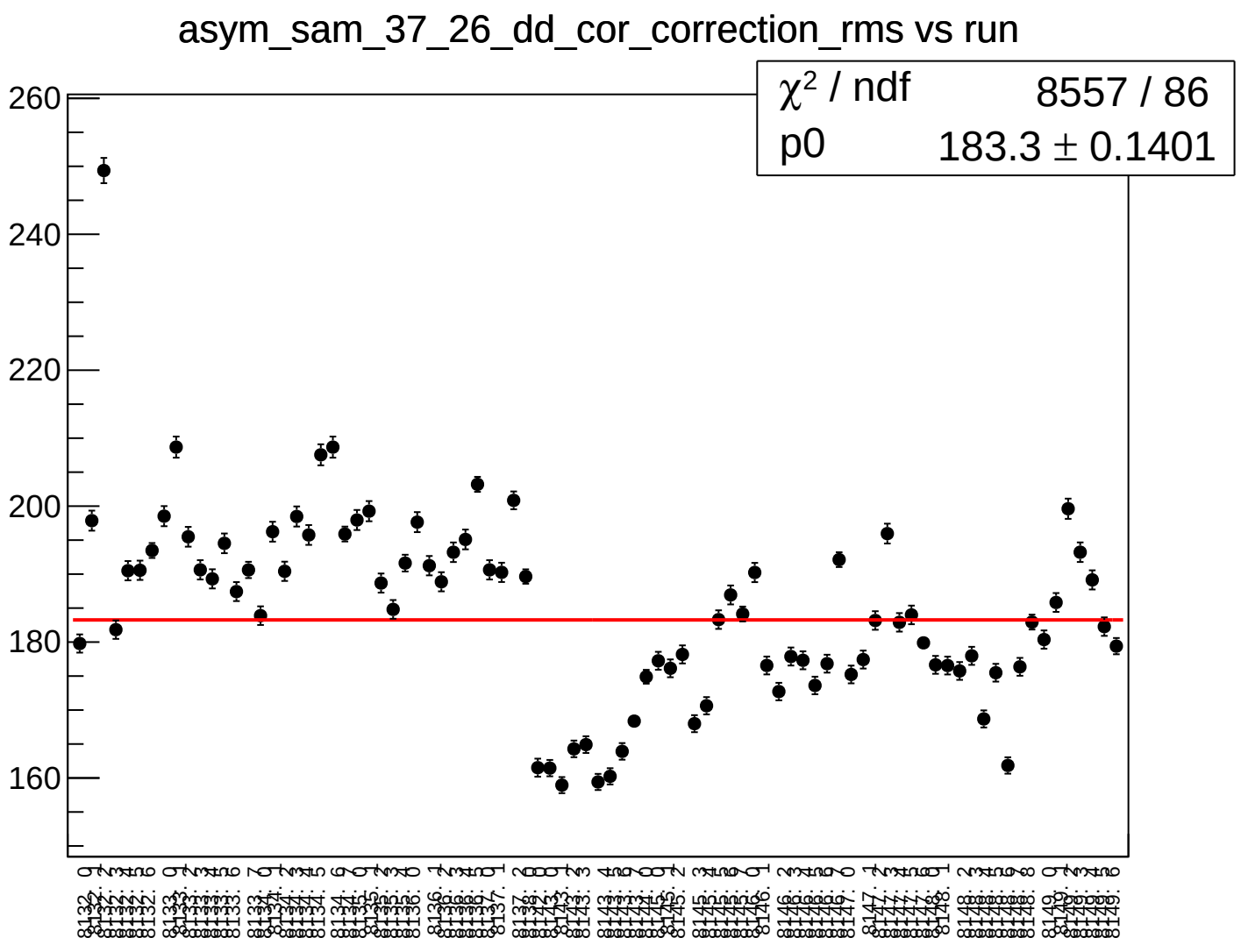

pull1D
Entries 87
Mean −0.01285
Std Dev 1.007

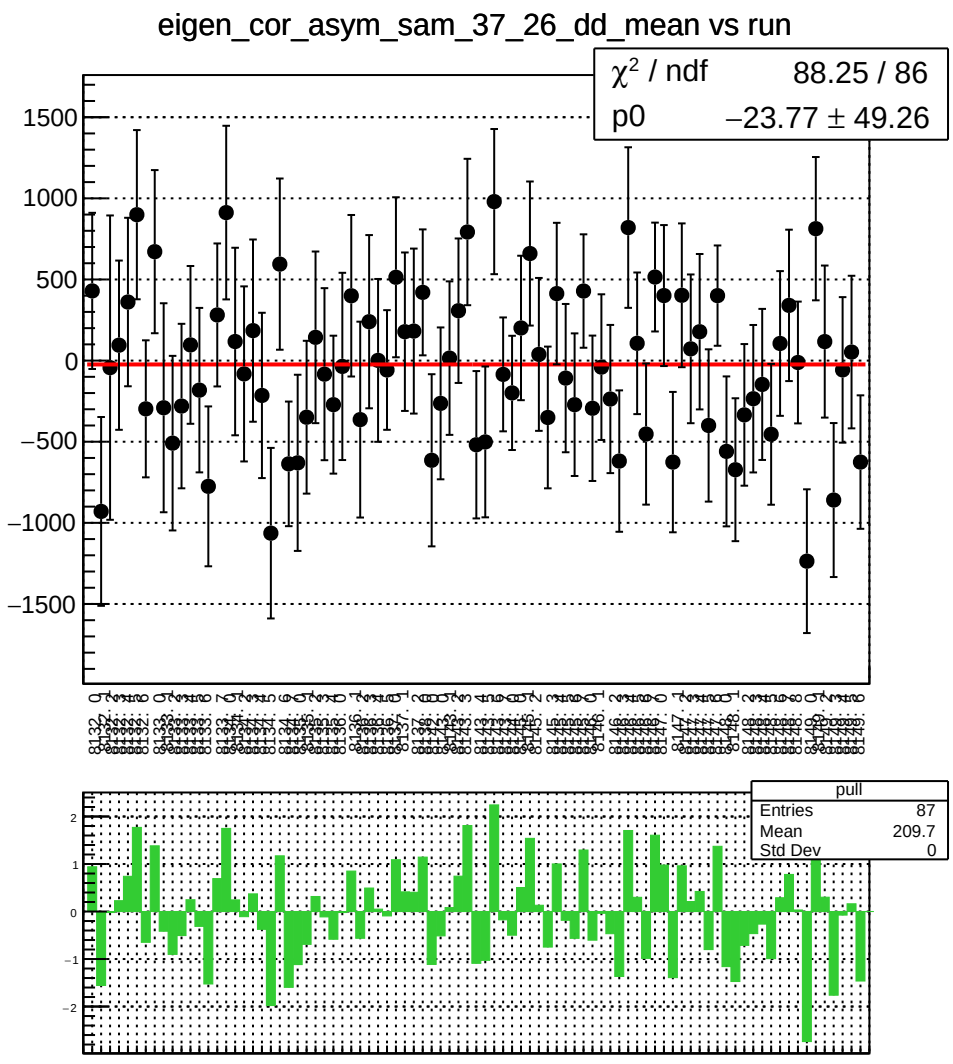
cor_asym_sam_37_26_dd_rms vs run

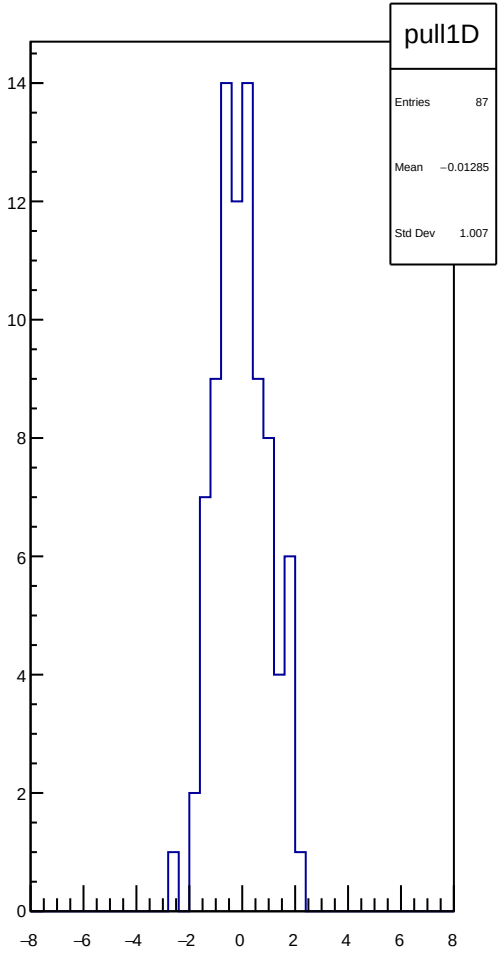


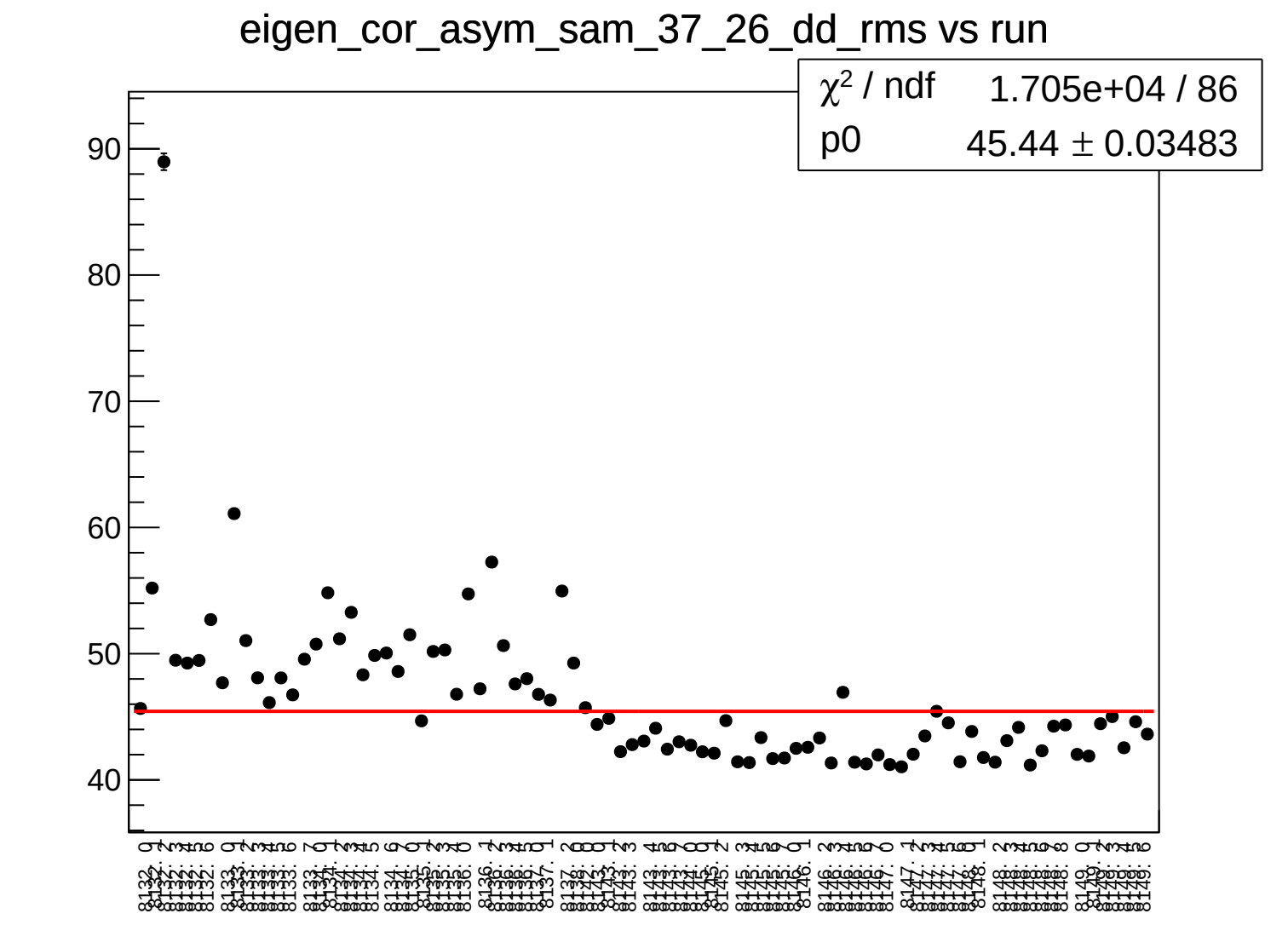

asym_sam_37_26_dd_cor_correction_mean vs run
χ² / ndf 99.69 / 86
p0 −236.8 ± 198.2
pull
Entries 87
Mean −738.4
Std Dev 0

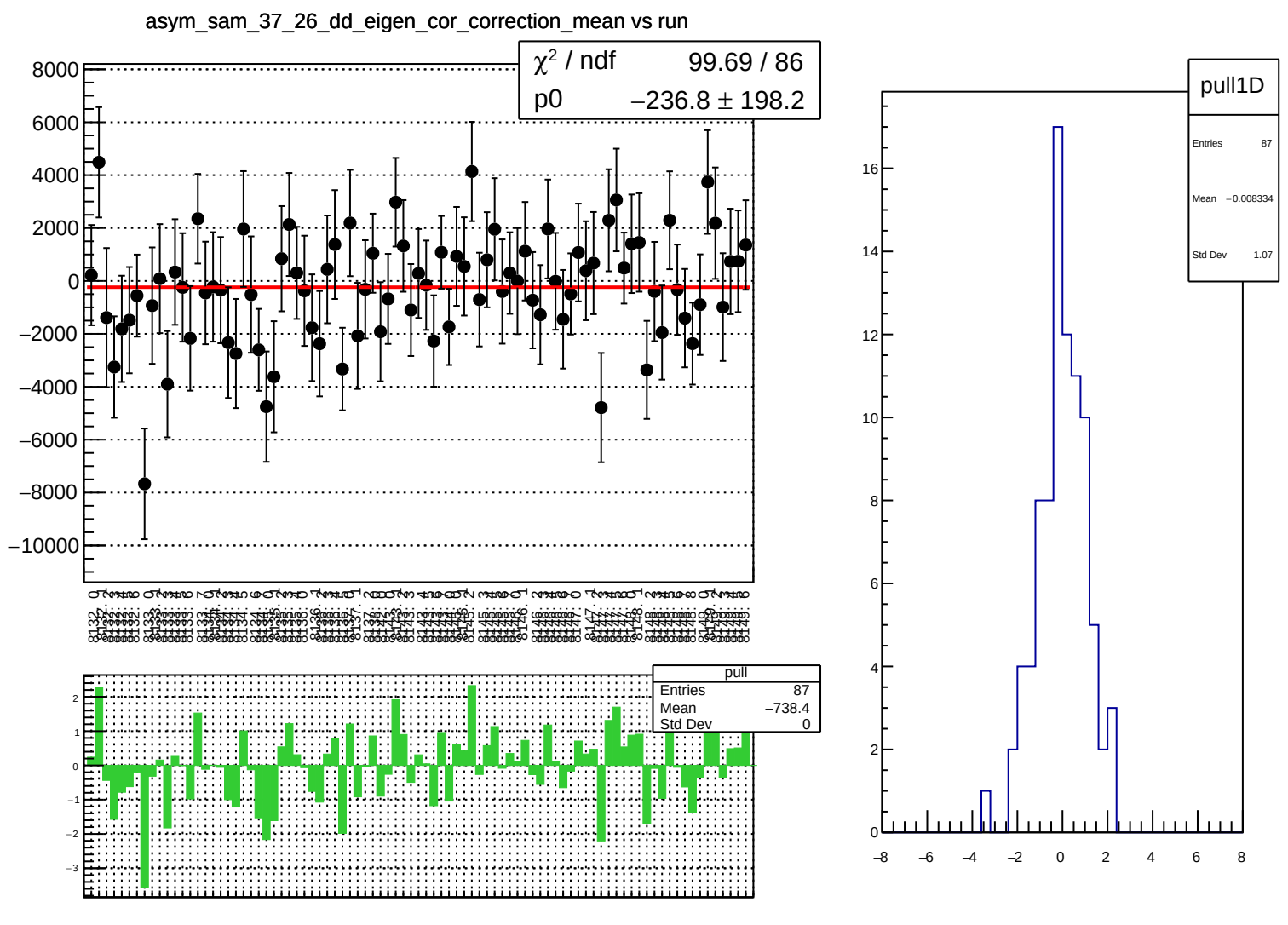

pull1D
Entries 87
Mean −0.008334
Std Dev 1.07

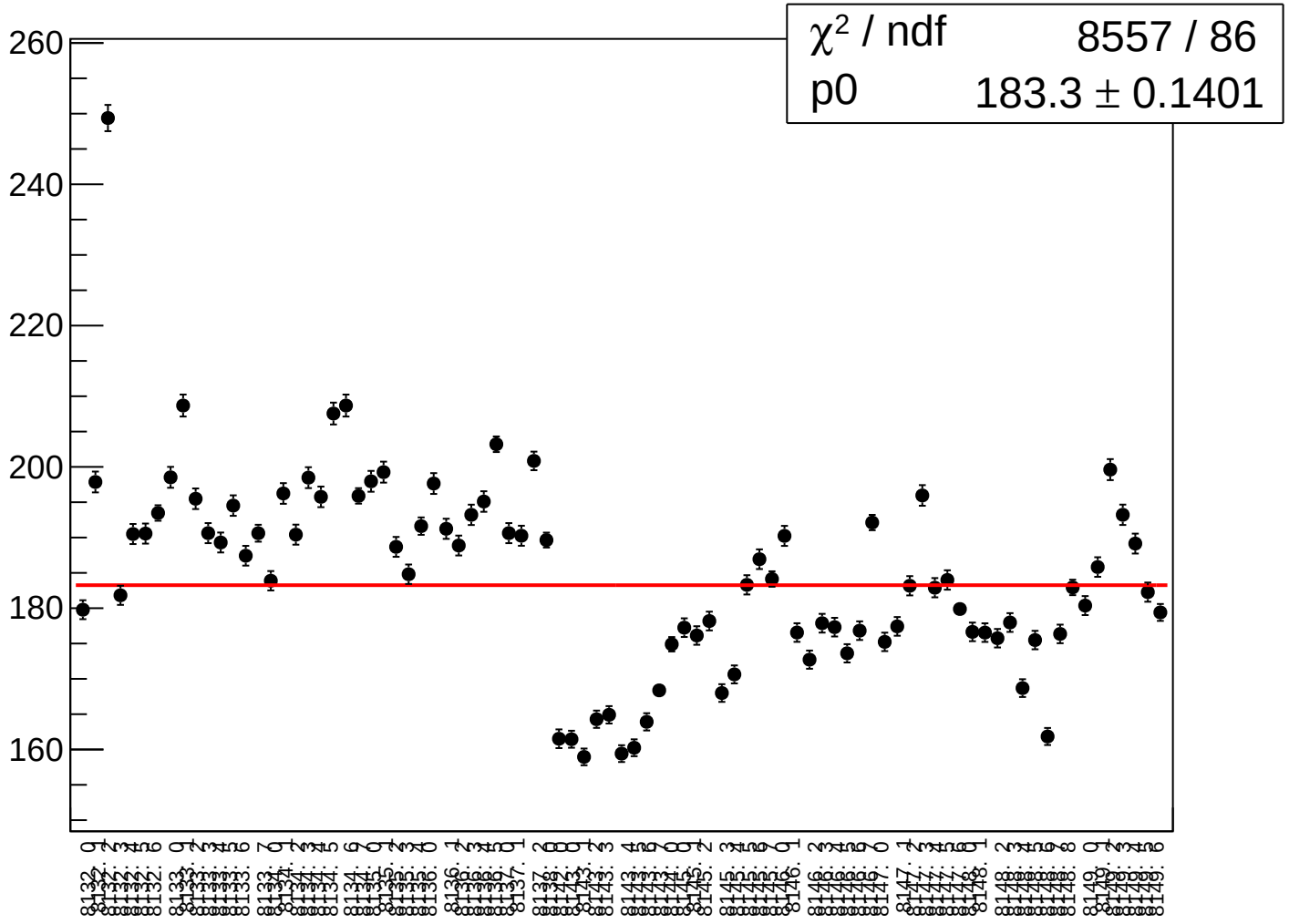

asym_sam_37_26_dd_cor_correction_rms vs run
χ² / ndf 8557 / 86
p0 183.3 ± 0.1401
260
240
220
200
180
160

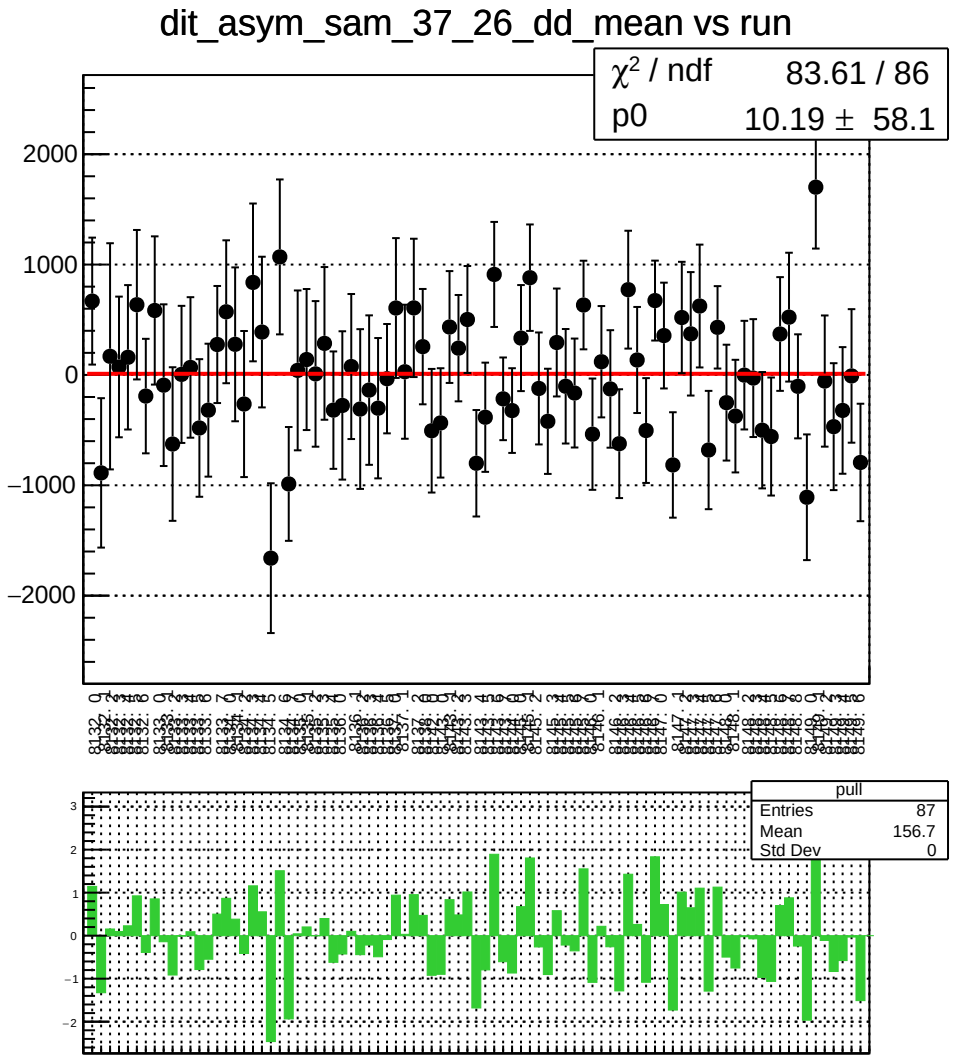

eigen_cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 88.25 / 86
p0 −23.77 ± 49.26
pull
Entries 87
Mean 209.7
Std Dev 0

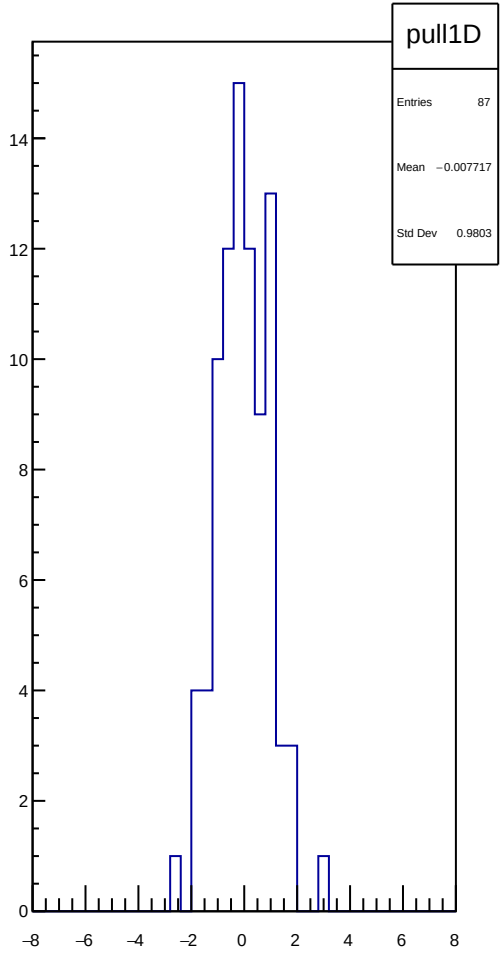

pull1D
Entries 87
Mean −0.01285
Std Dev 1.007

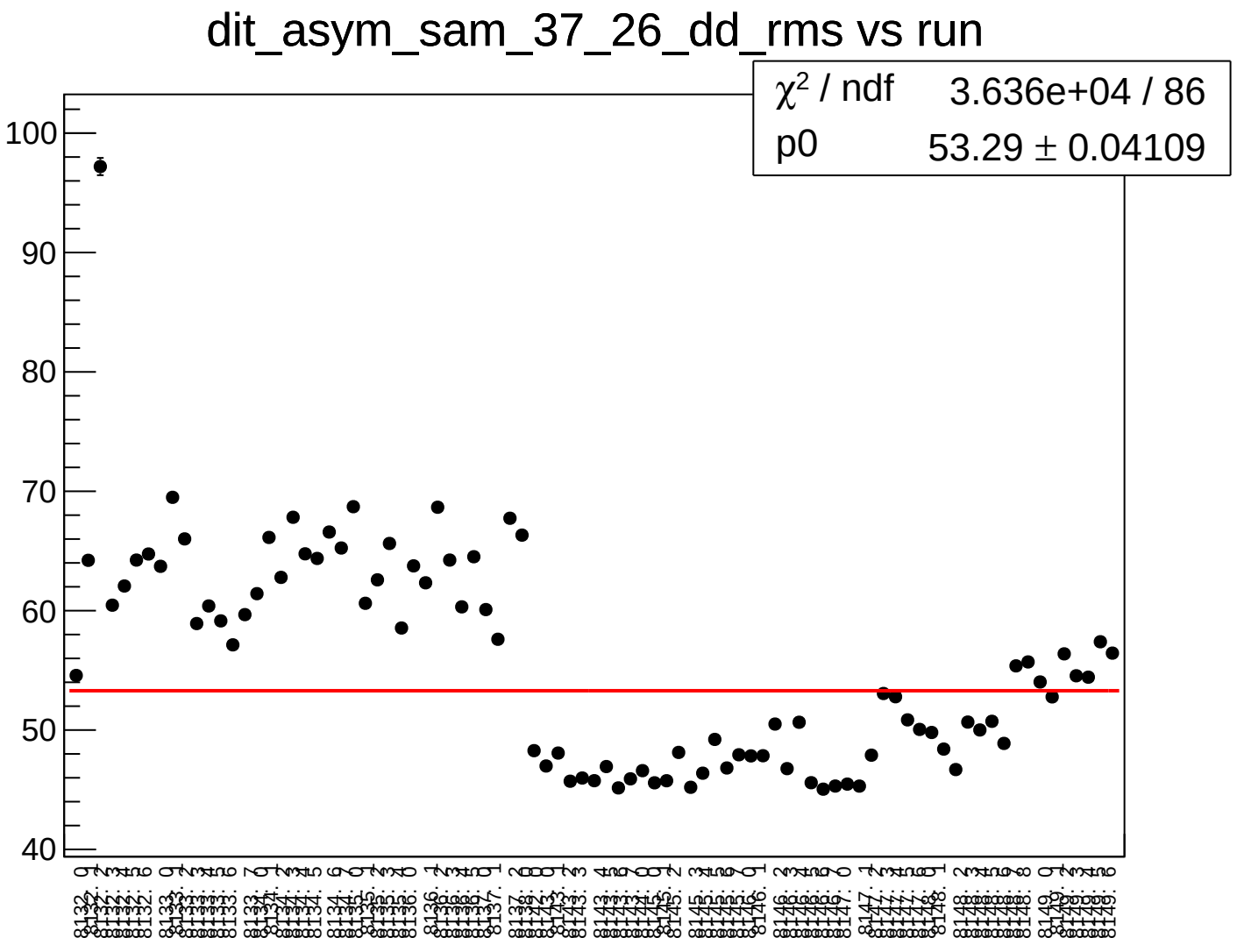

eigen_cor_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 1.705e+04 / 86
p0 45.44 ± 0.03483
90
80
70
60
50
40

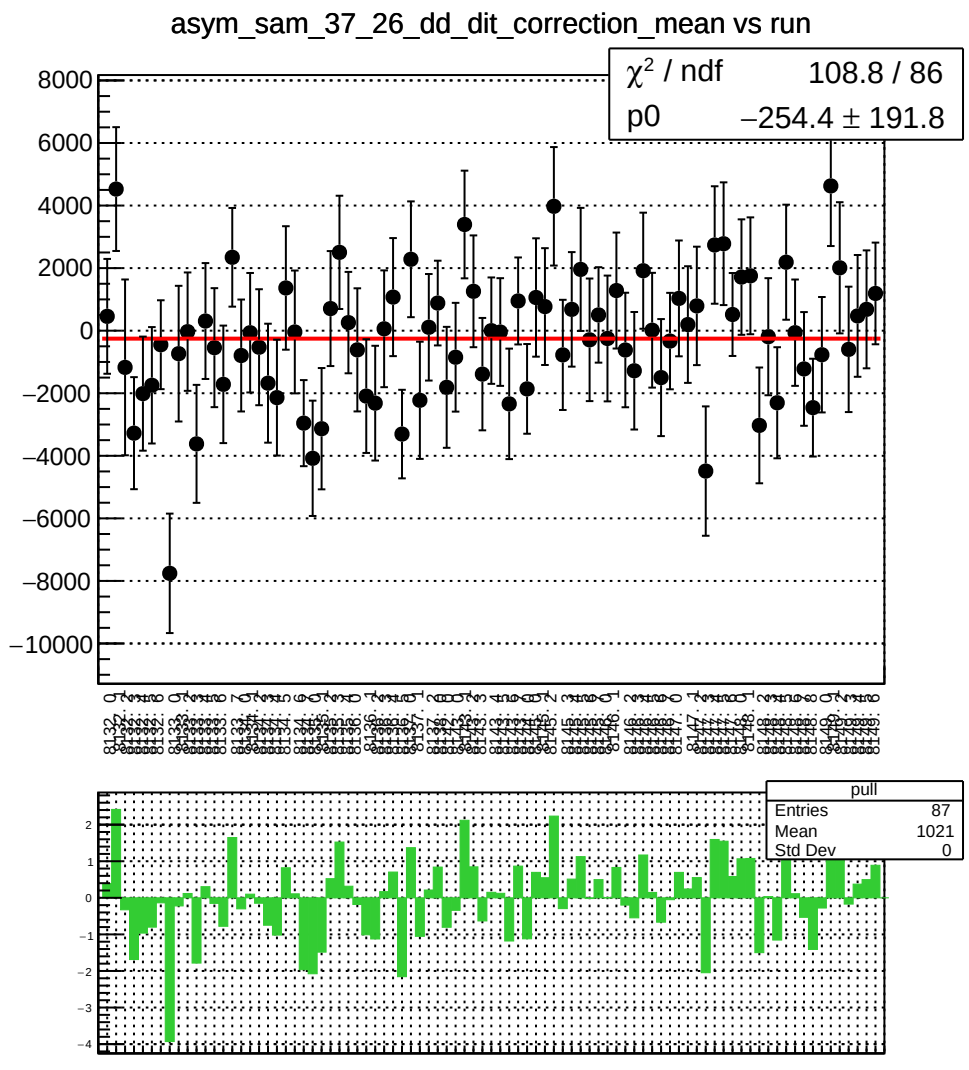

asym_sam_37_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 99.69 / 86
p0 −236.8 ± 198.2
pull
Entries 87
Mean −738.4
Std Dev 0
pull1D
Entries 87
Mean −0.008334
Std Dev 1.07

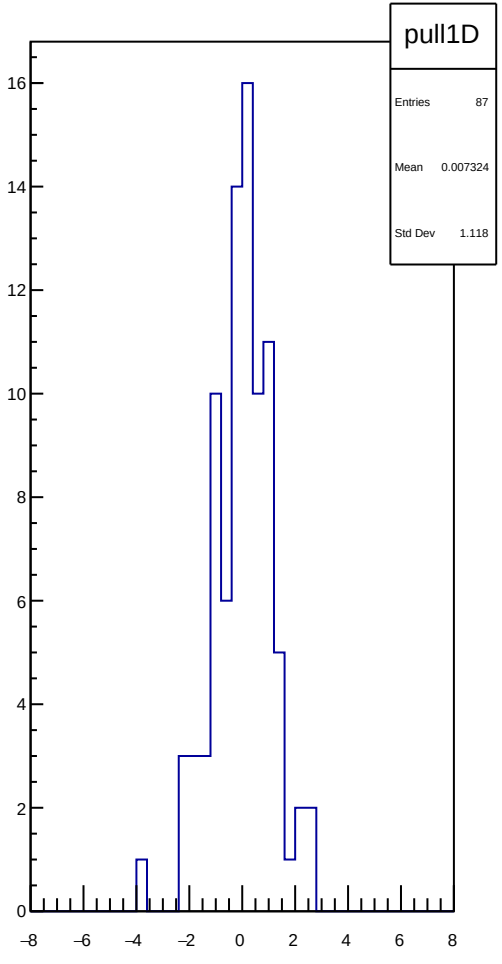

asym_sam_37_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 8557 / 86
p0 183.3 ± 0.1401
260
240
220
200
180
160

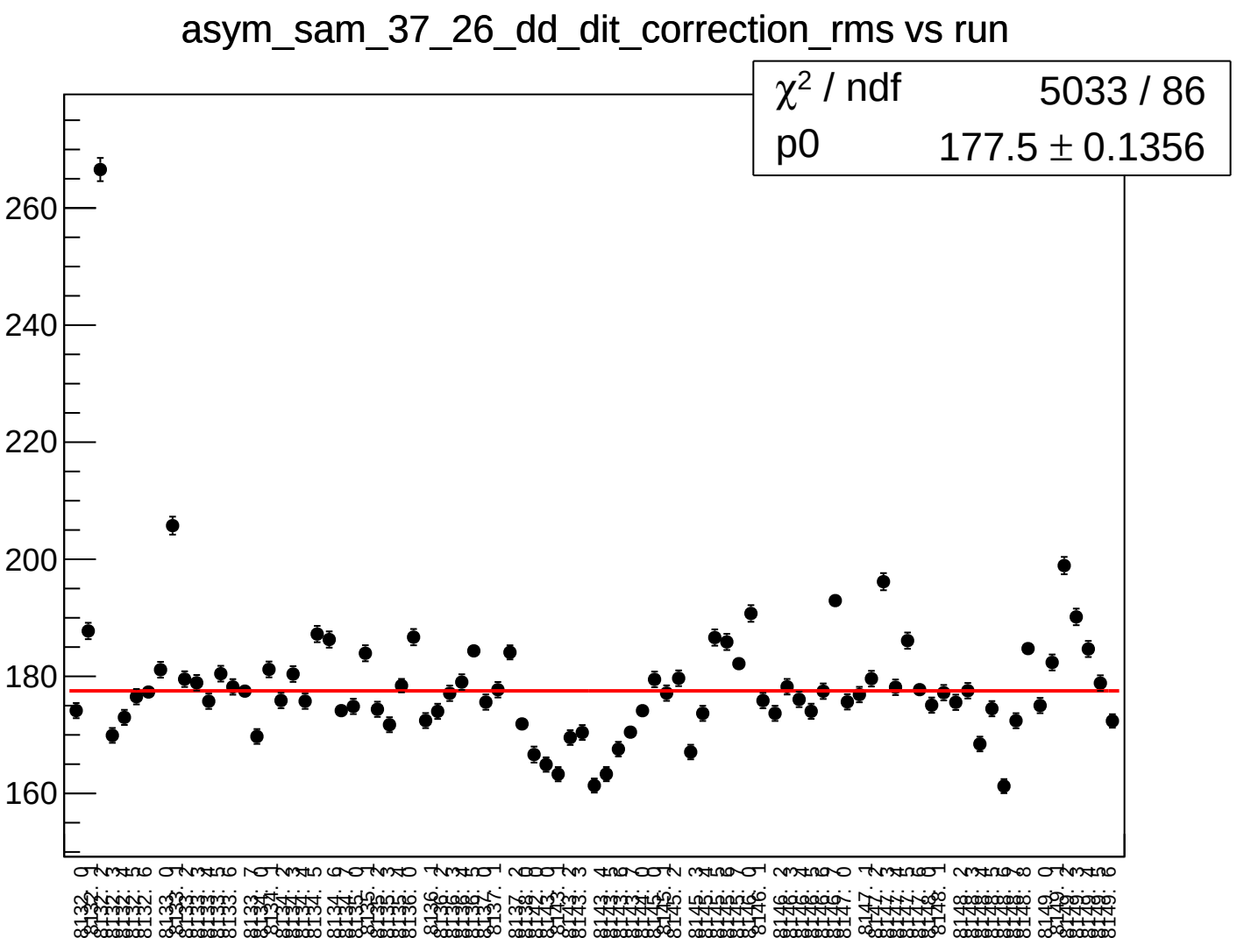

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 83.61 / 86
p0 10.19 ± 58.1
2000
1000
0
−1000
−2000
pull
Entries 87
Mean 156.7
Std Dev 0
3
2
1
0
−1
−2

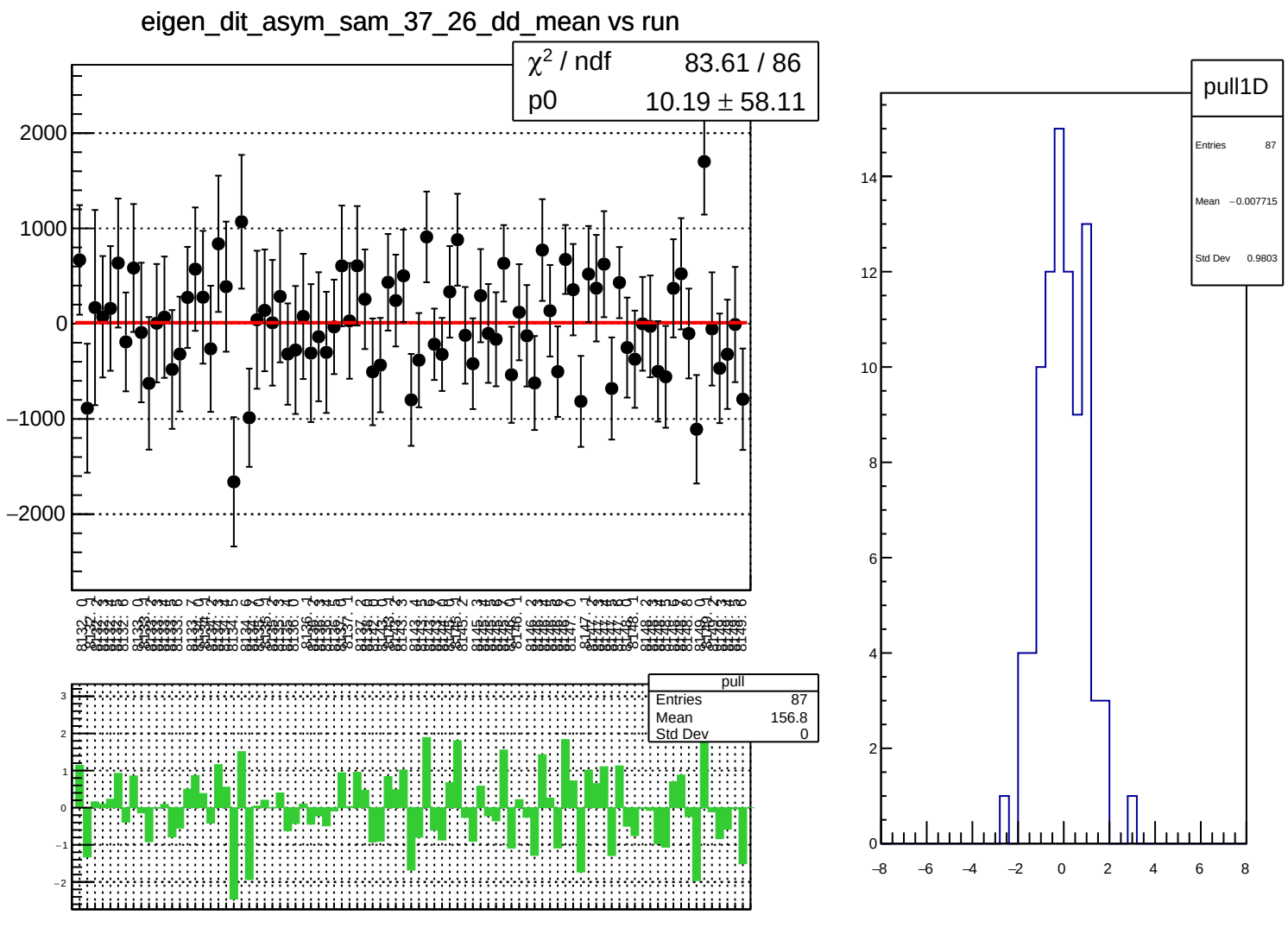

pull1D
Entries 87
Mean −0.007717
Std Dev 0.9803
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

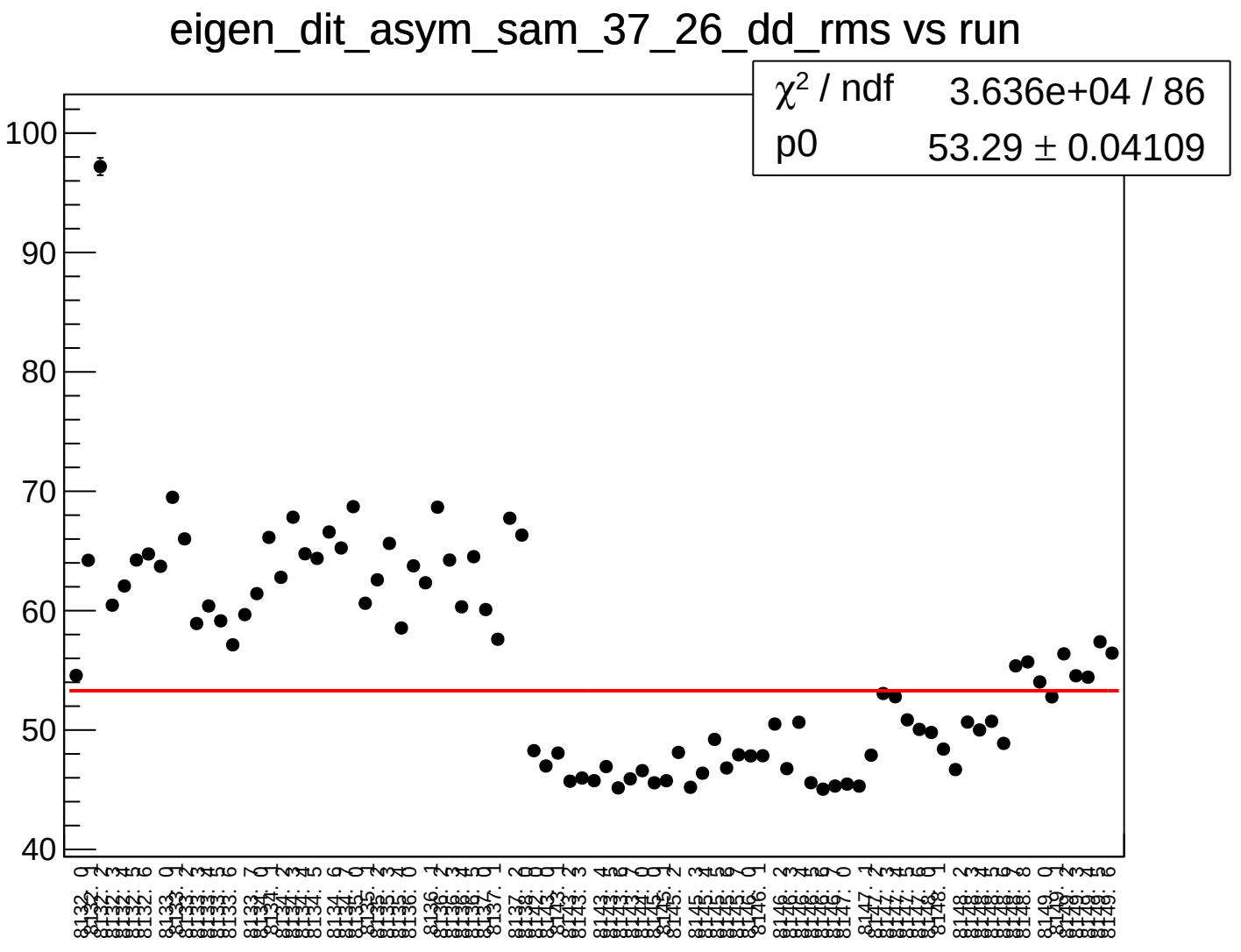

dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 3.636e+04 / 86
p0 53.29 ± 0.04109
100
90
80
70
60
50
40

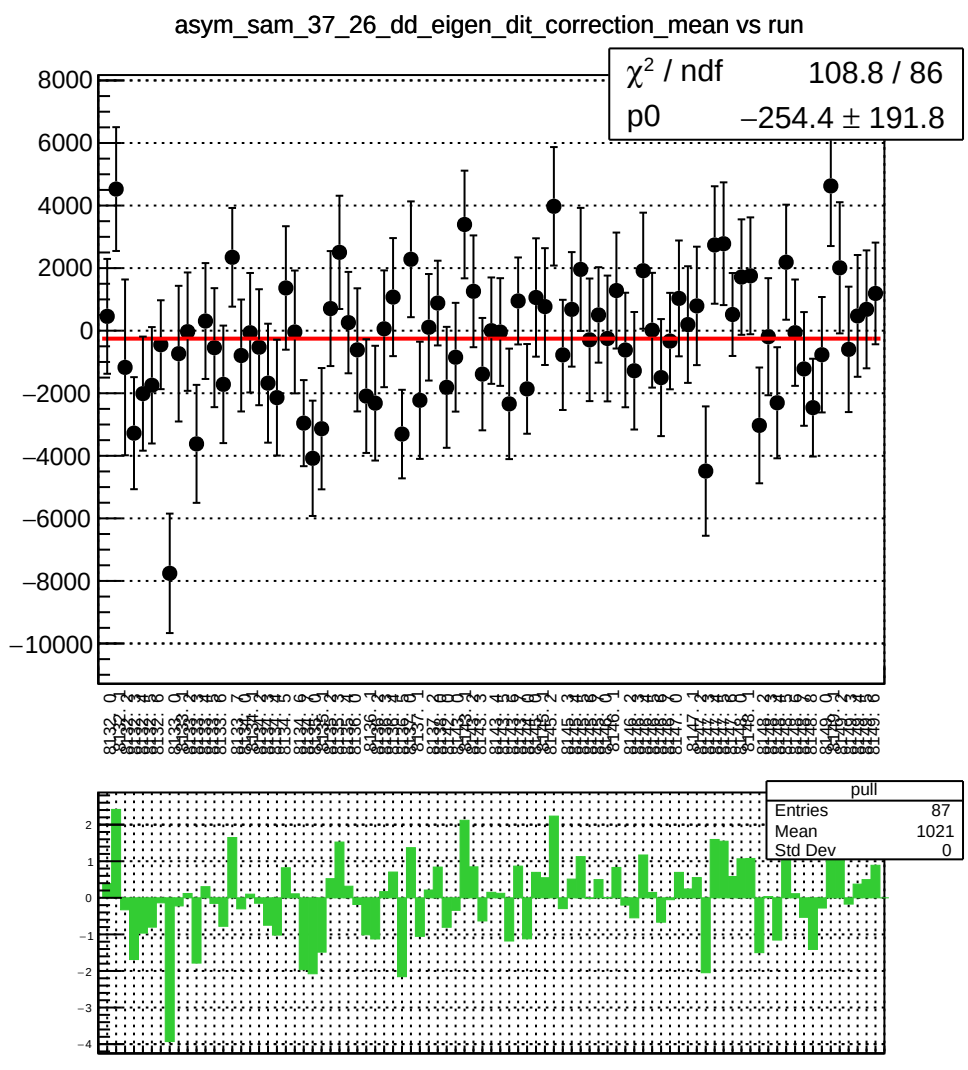

asym_sam_37_26_dd_dit_correction_mean vs run
χ² / ndf 108.8 / 86
p0 −254.4 ± 191.8
pull
Entries 87
Mean 1021
Std Dev 0

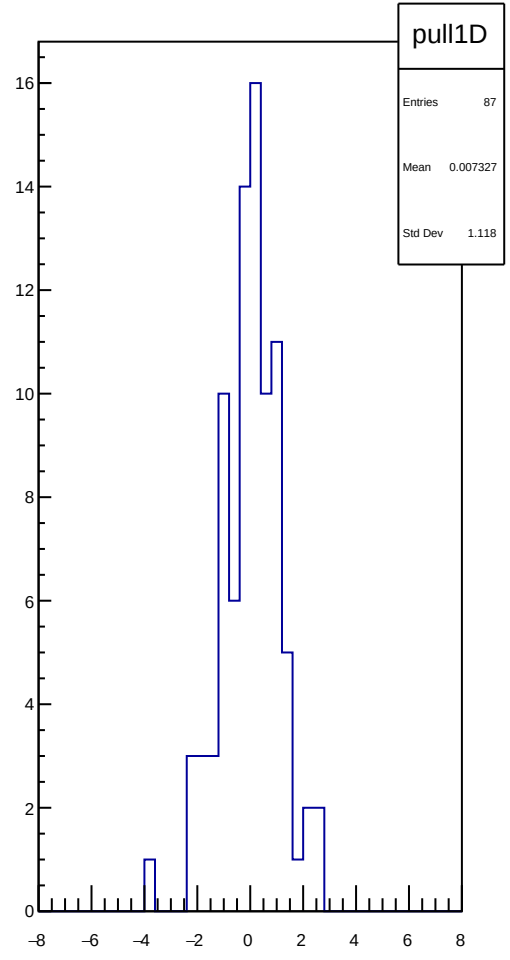

pull1D
Entries 87
Mean 0.007324
Std Dev 1.118

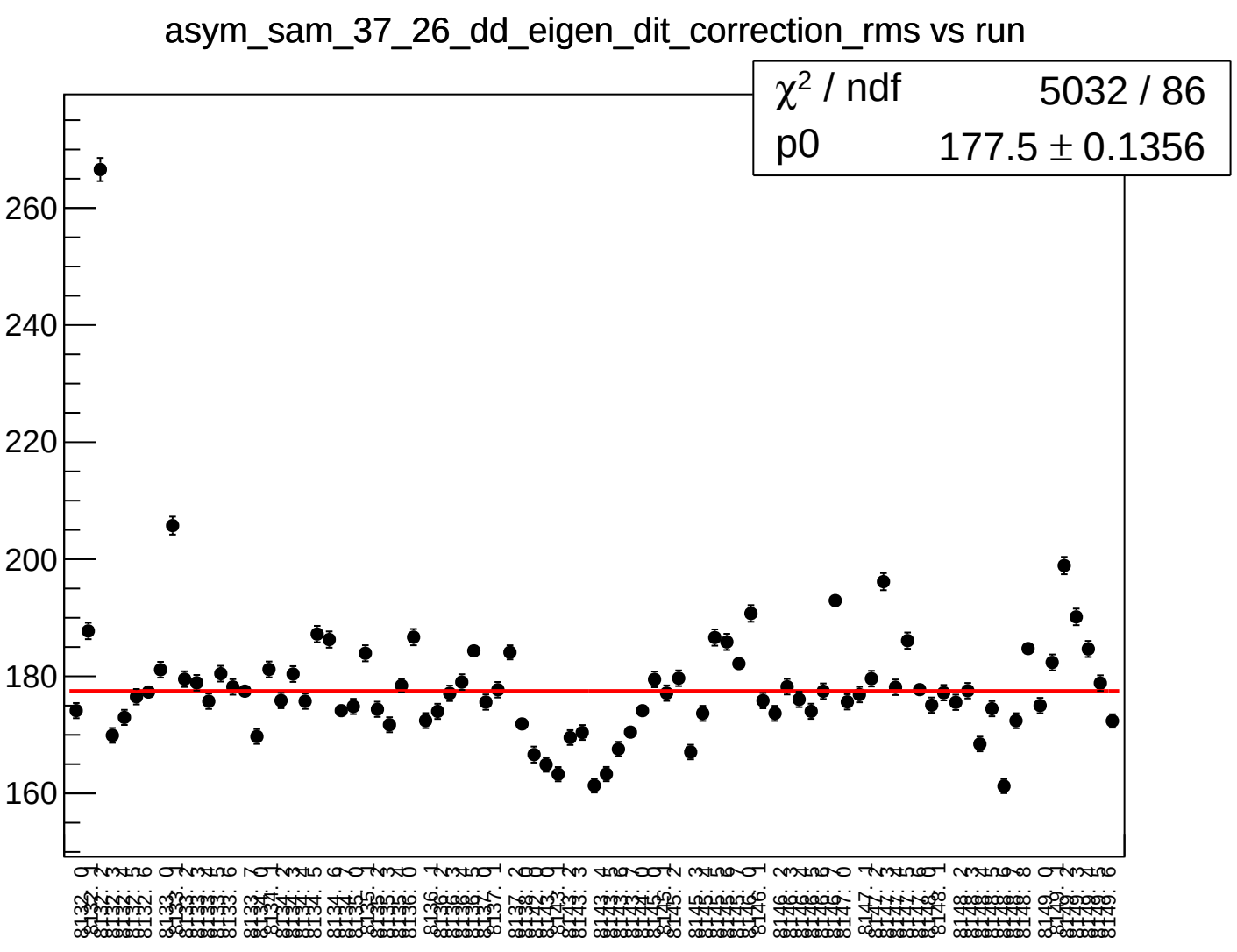

asym_sam_37_26_dd_dit_correction_rms vs run
χ² / ndf 5033 / 86
p0 177.5 ± 0.1356
260
240
220
200
180
160

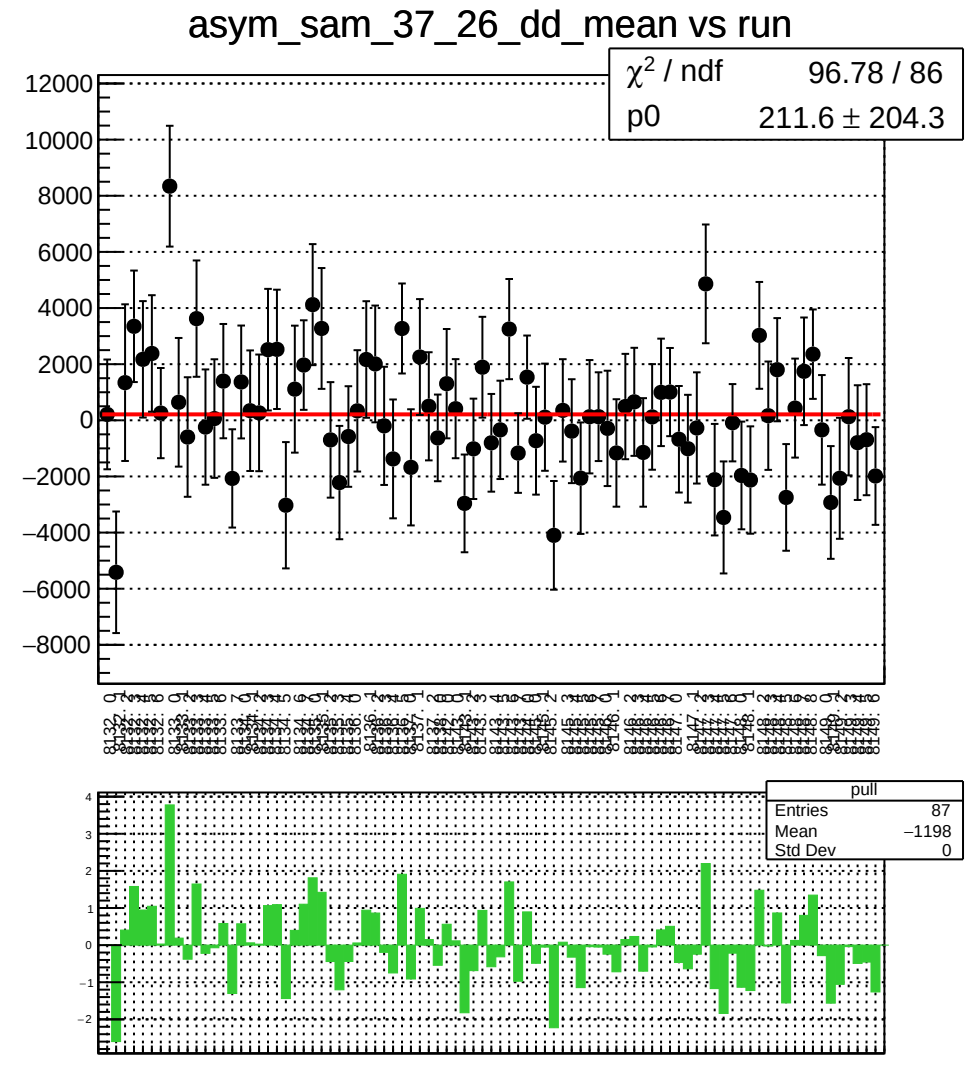

eigen_dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 83.61 / 86
p0 10.19 ± 58.11
2000
1000
0
−1000
−2000
pull
Entries 87
Mean 156.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.007715
Std Dev 0.9803
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

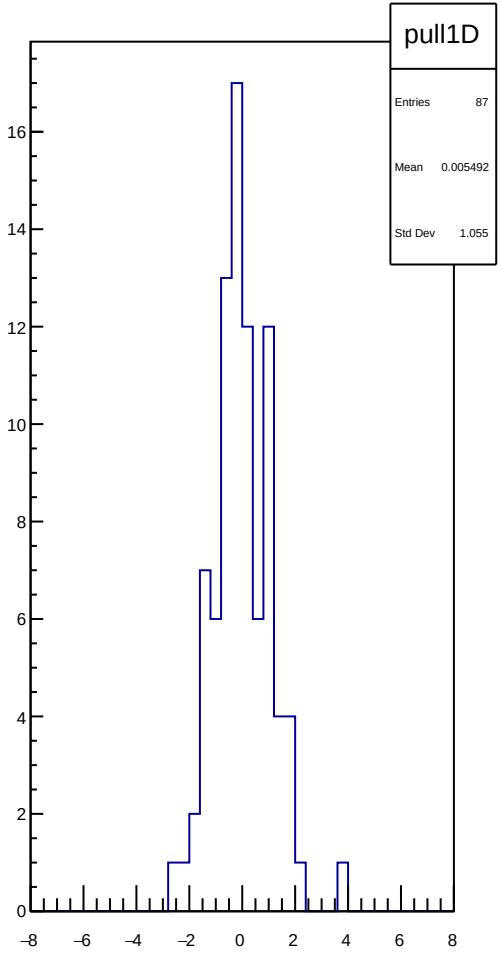

eigen_dit_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 3.636e+04 / 86
p0 53.29 ± 0.04109
100
90
80
70
60
50
40

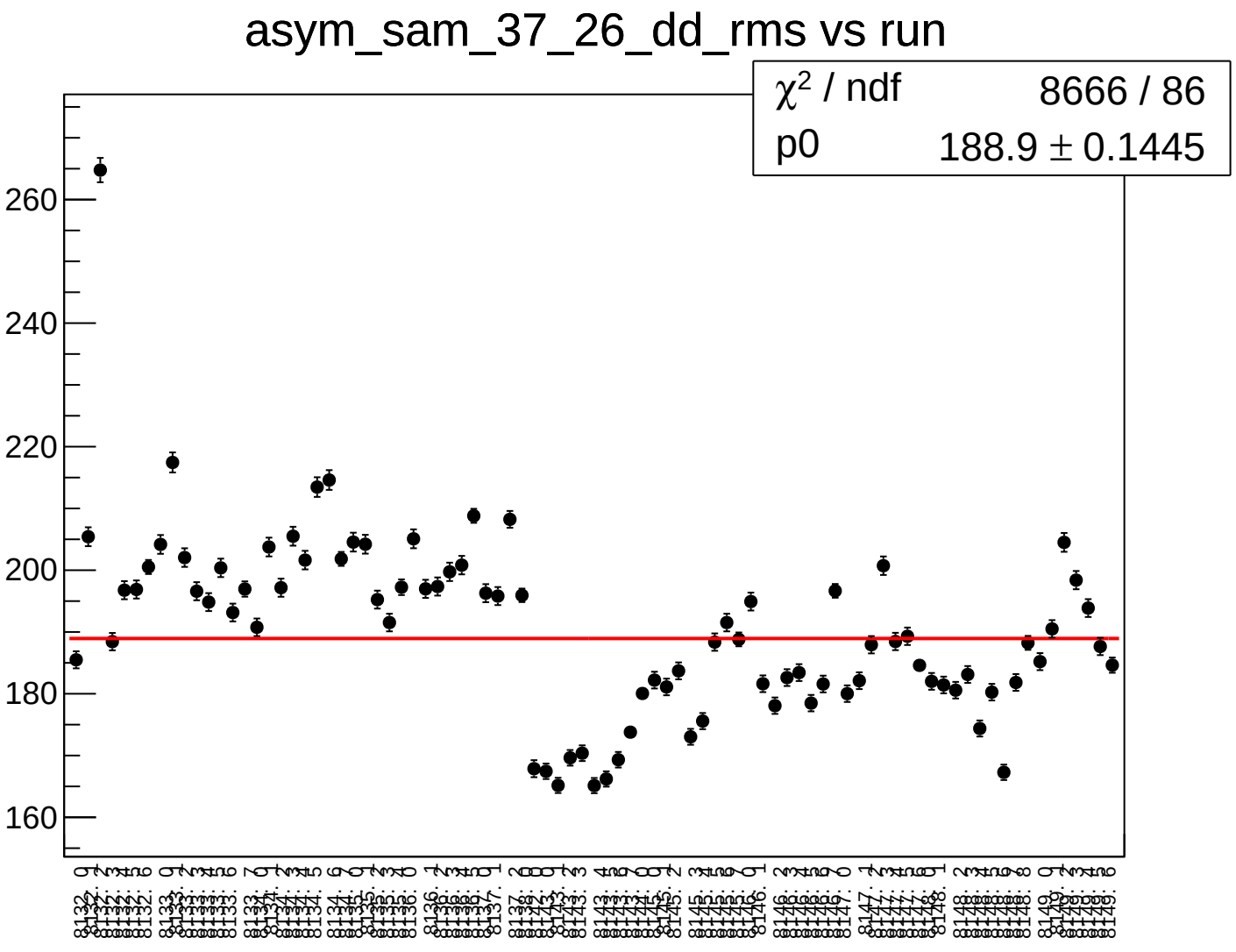

asym_sam_37_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 108.8 / 86
p0 −254.4 ± 191.8
pull
Entries 87
Mean 1021
Std Dev 0

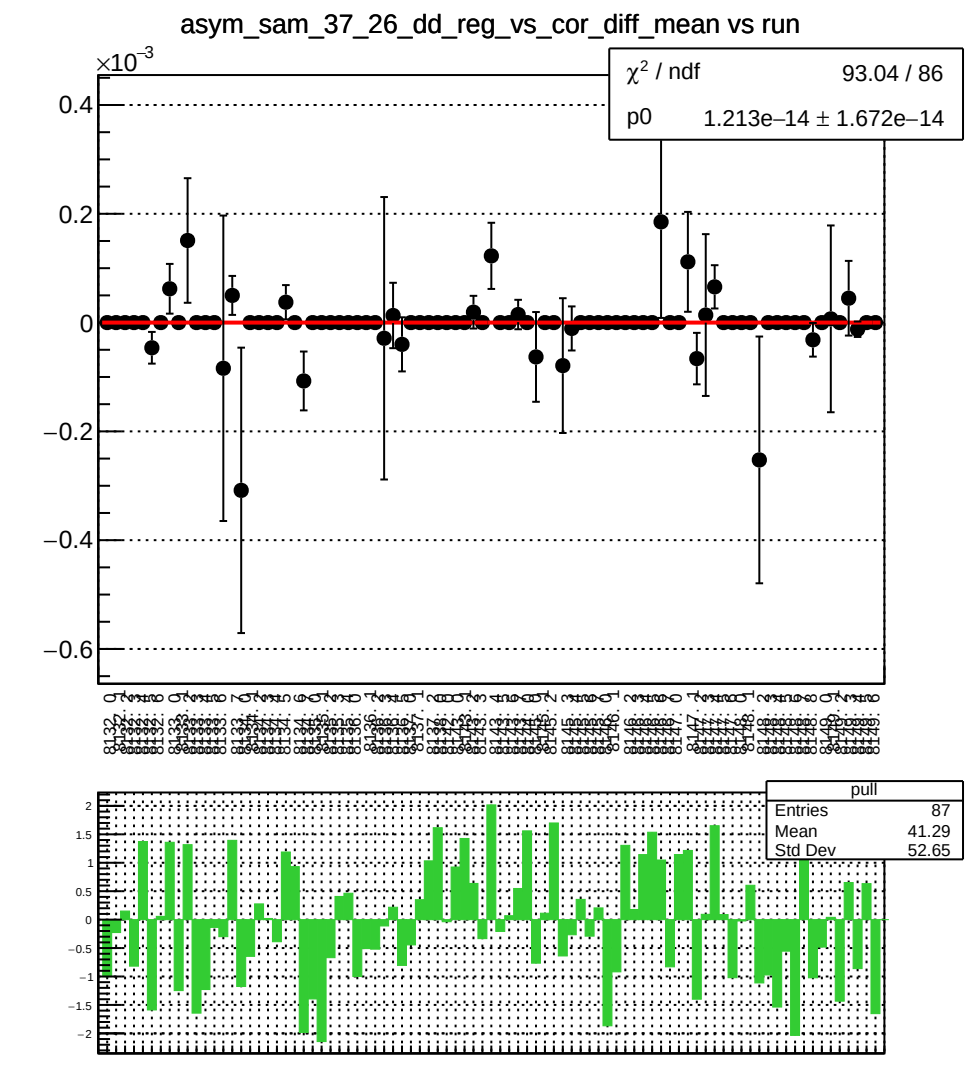

pull1D
Entries 87
Mean 0.007327
Std Dev 1.118

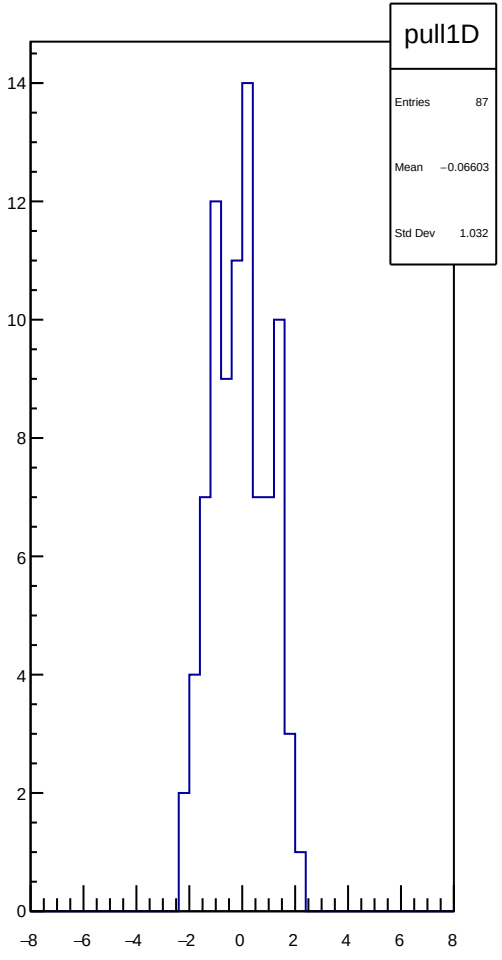

asym_sam_37_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 5032 / 86
p0 177.5 ± 0.1356
260
240
220
200
180
160

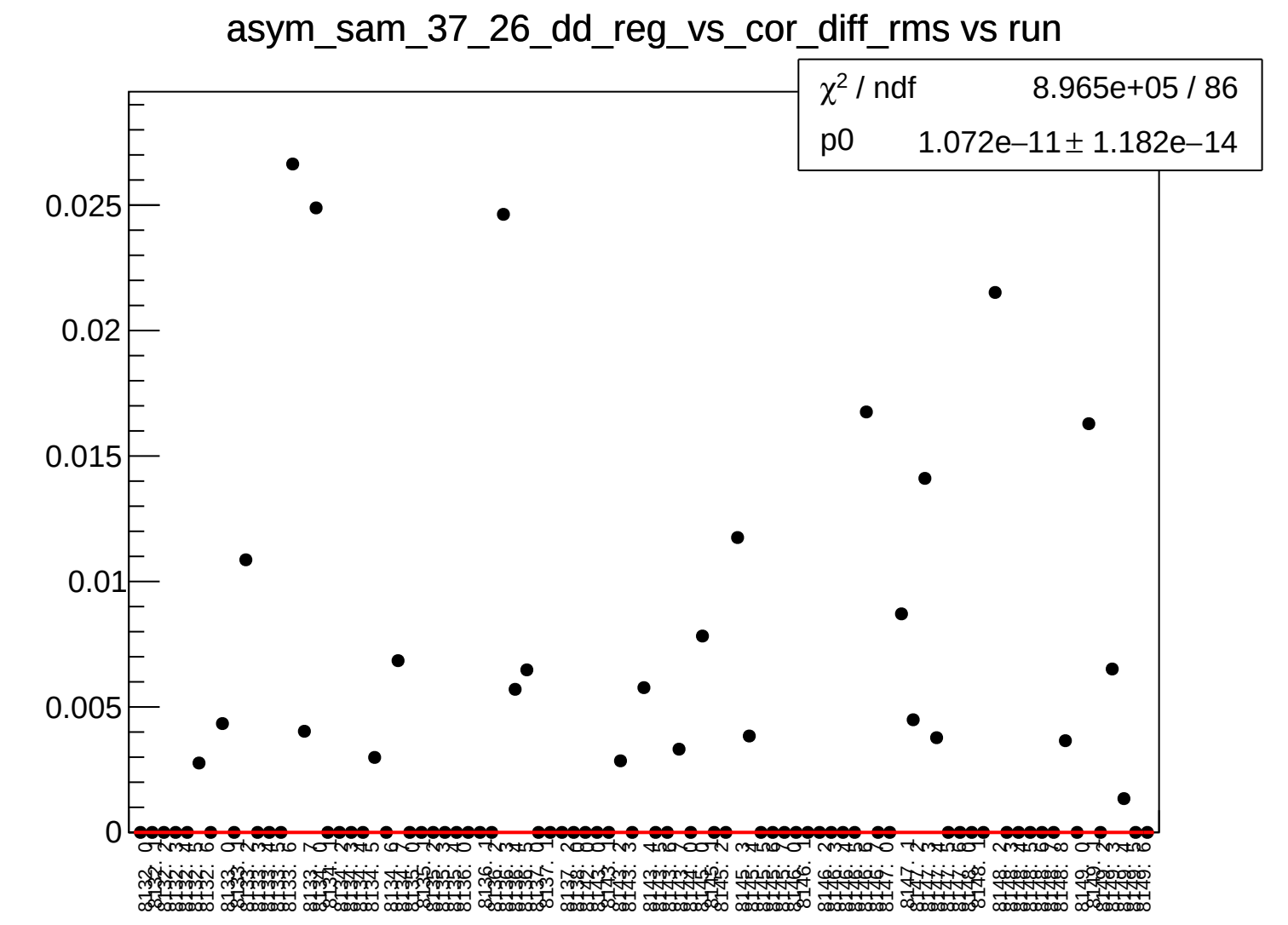

asym_sam_37_26_dd_mean vs run
χ² / ndf 96.78 / 86
p0 211.6 ± 204.3
pull
Entries 87
Mean −1198
Std Dev 0

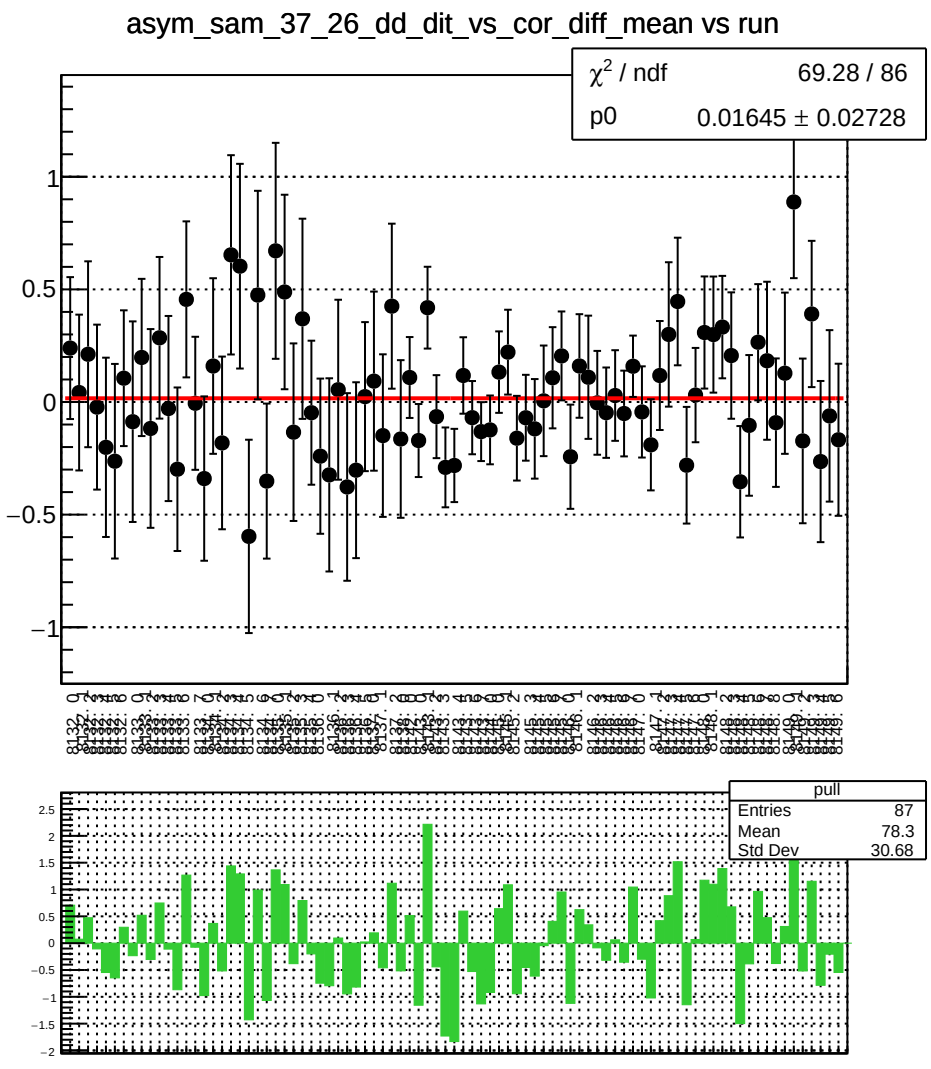

pull1D
Entries 87
Mean 0.005492
Std Dev 1.055

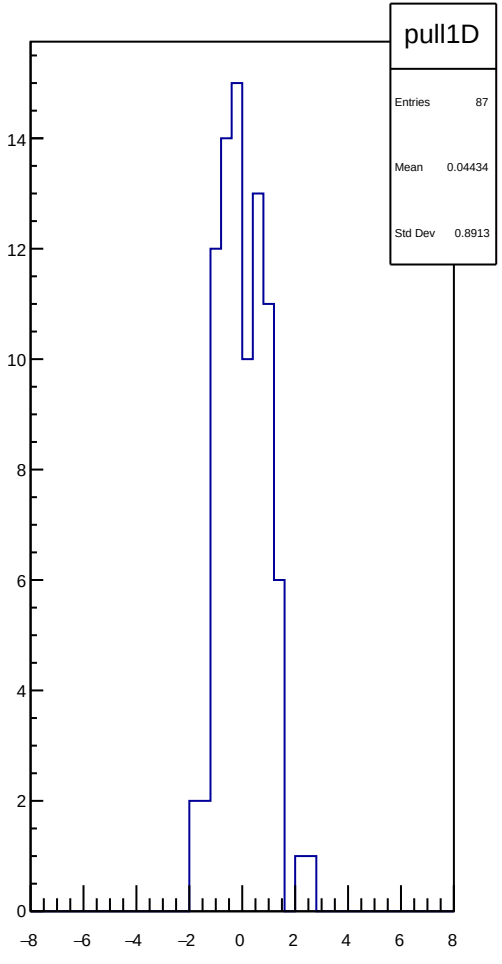

asym_sam_37_26_dd_rms vs run
χ² / ndf 8666 / 86
p0 188.9 ± 0.1445
260
240
220
200
180
160

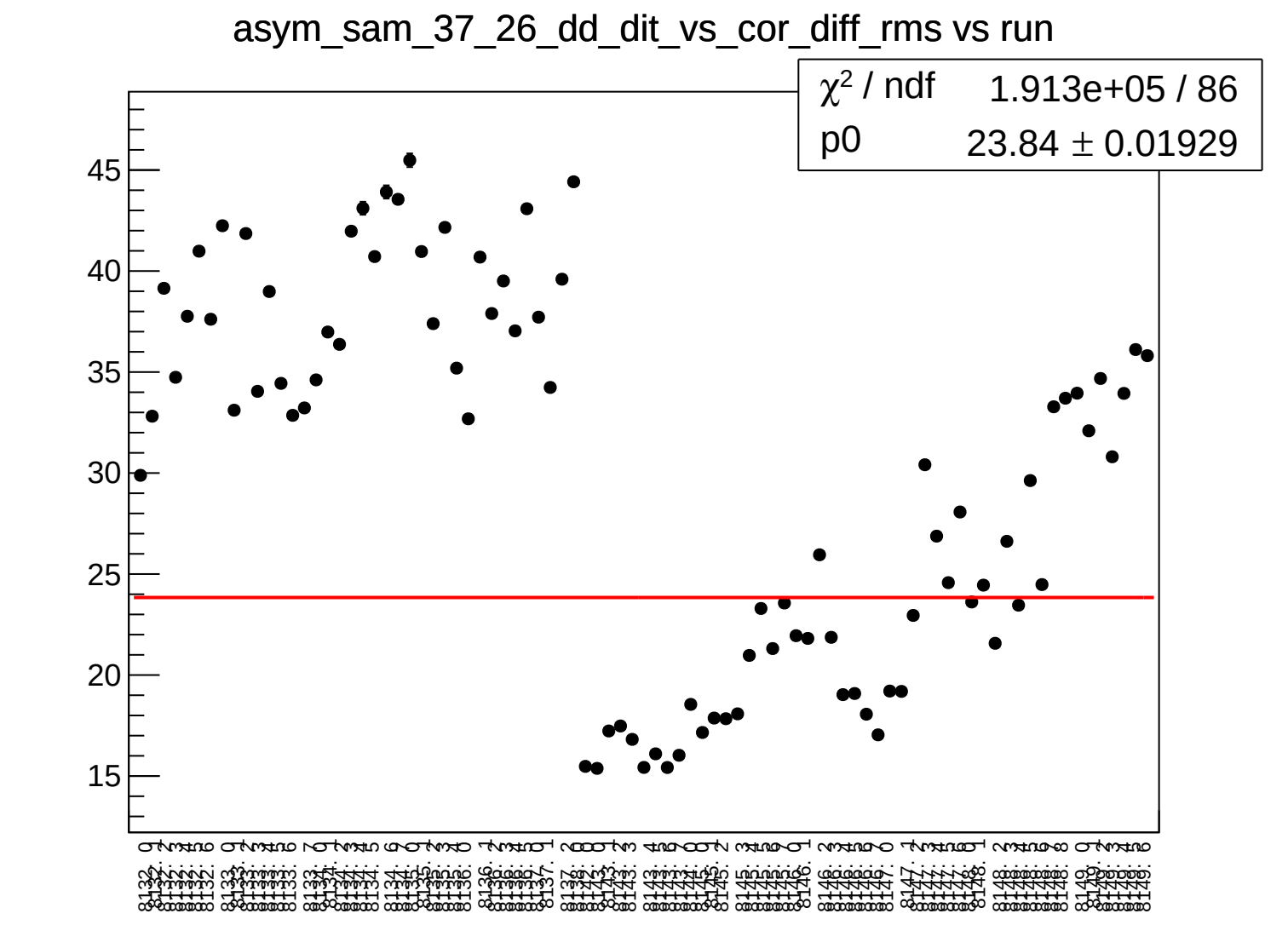

asym_sam_37_26_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 93.04 / 86
p0 1.213e−14 ± 1.672e−14
pull
Entries 87
Mean 41.29
Std Dev 52.65

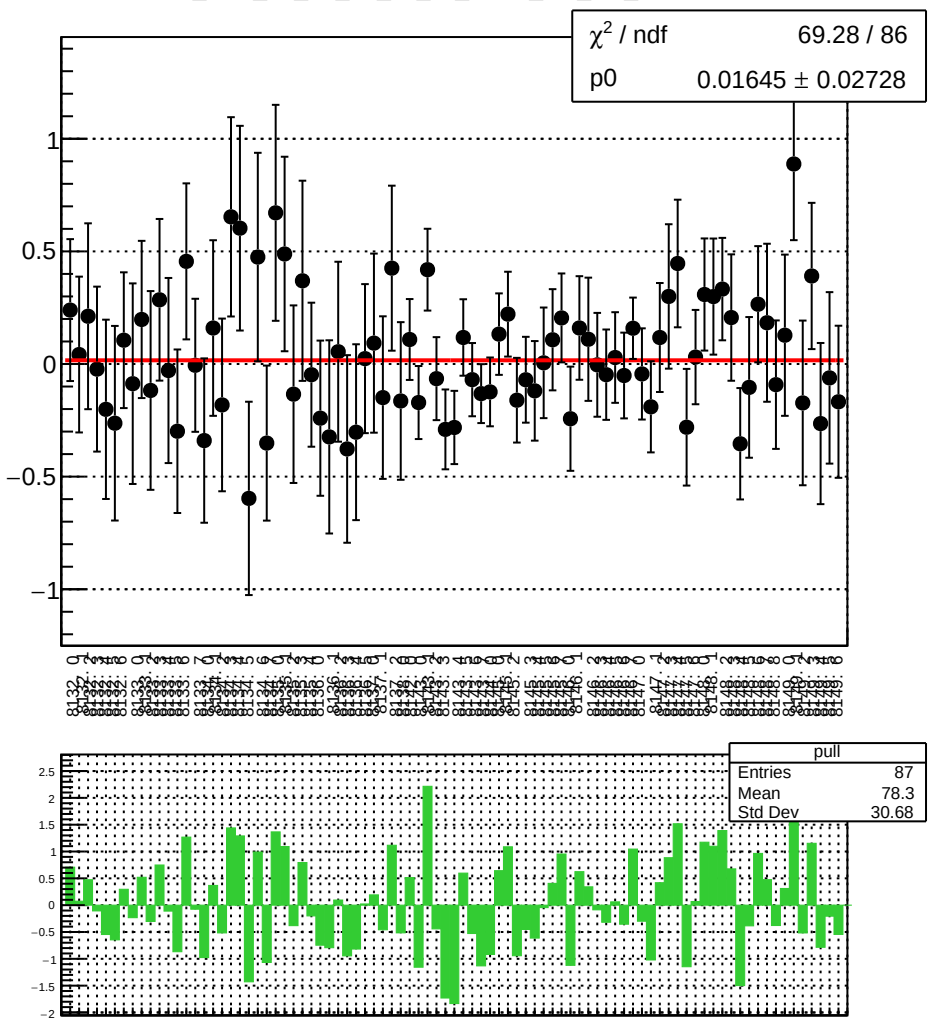

pull1D
Entries 87
Mean −0.06603
Std Dev 1.032

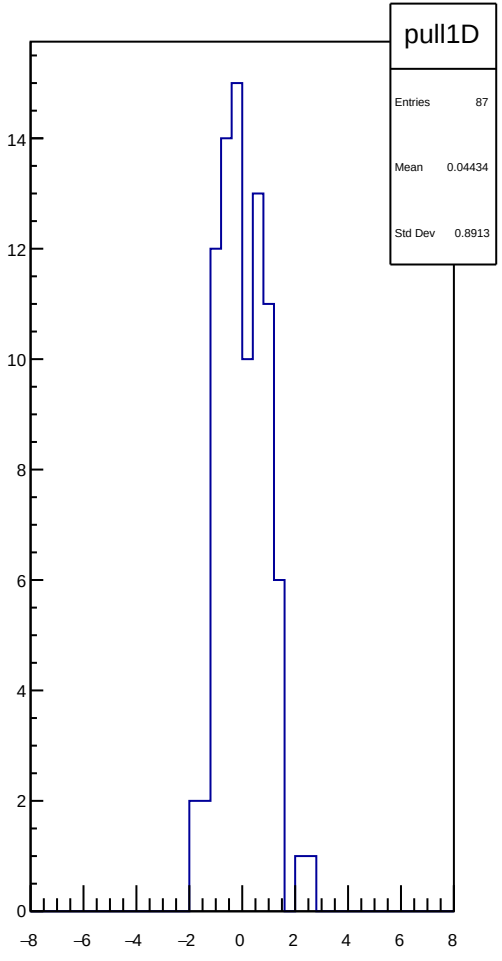

asym_sam_37_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.965e+05 / 86
p0 1.072e−11 ± 1.182e−14
0.025
0.02
0.015
0.01
0.005
0

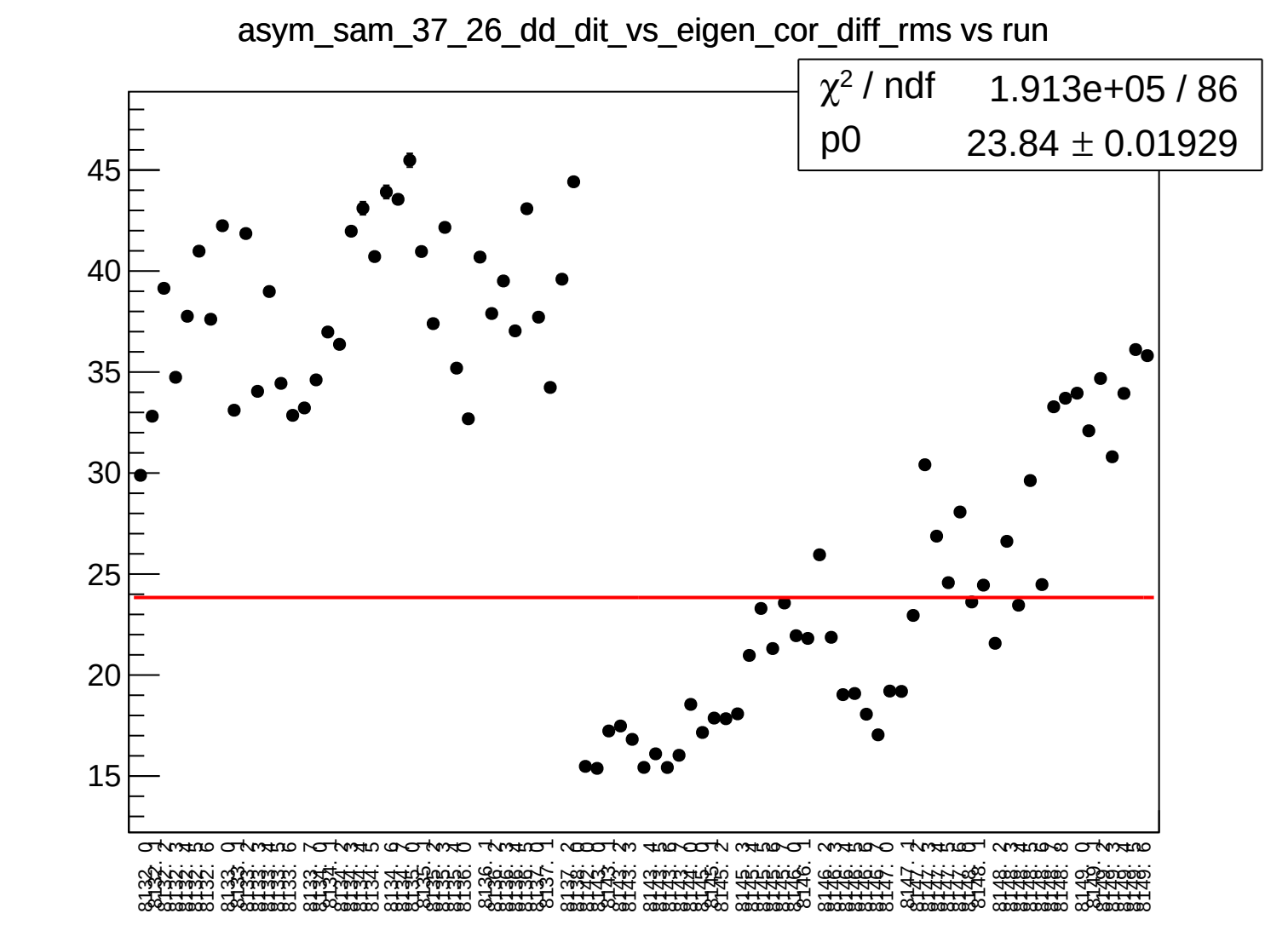

asym_sam_37_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 69.28 / 86
p0 0.01645 ± 0.02728
pull
Entries 87
Mean 78.3
Std Dev 30.68

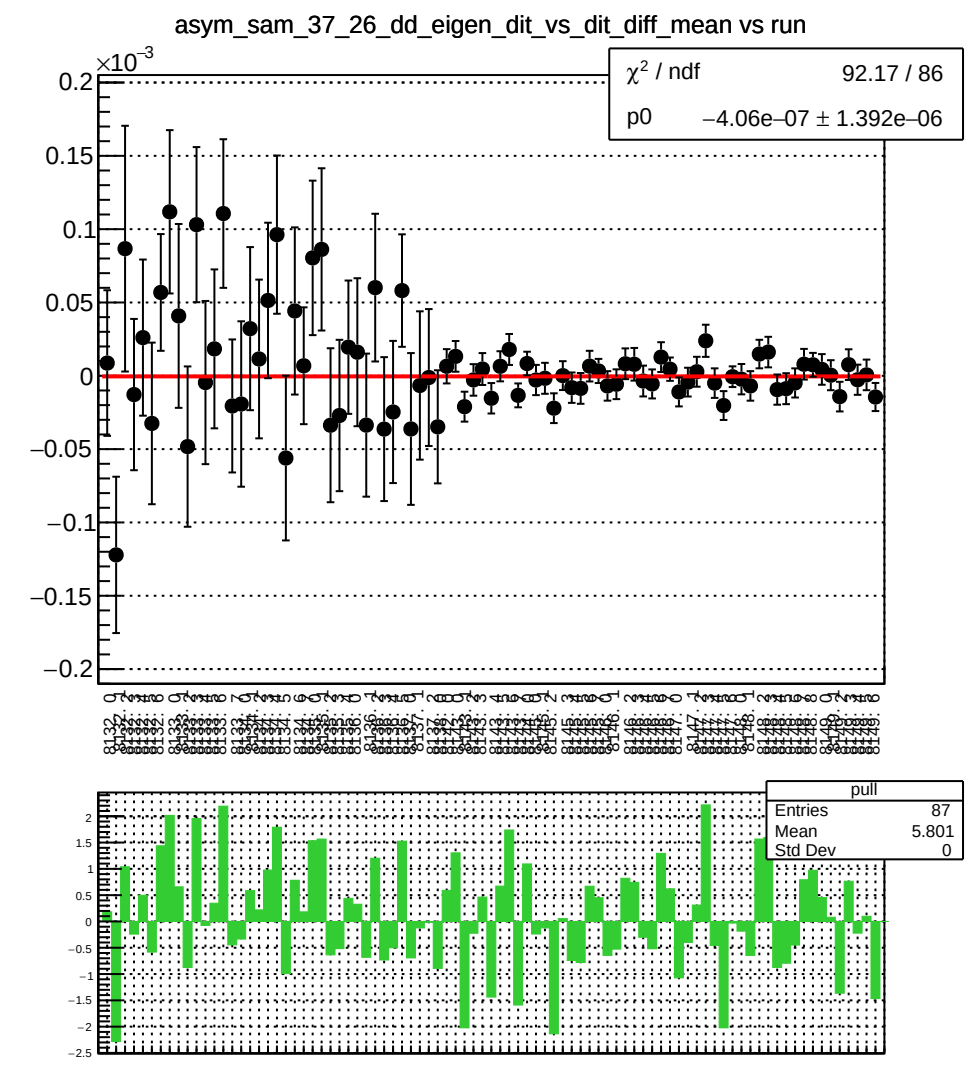

pull1D
Entries 87
Mean 0.04434
Std Dev 0.8913

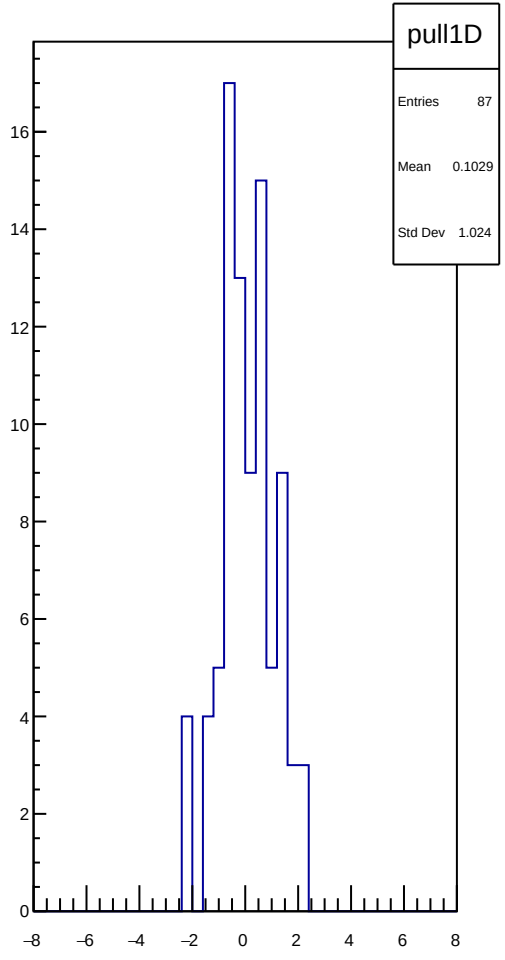

asym_sam_37_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.913e+05 / 86
p0 23.84 ± 0.01929
45
40
35
30
25
20
15

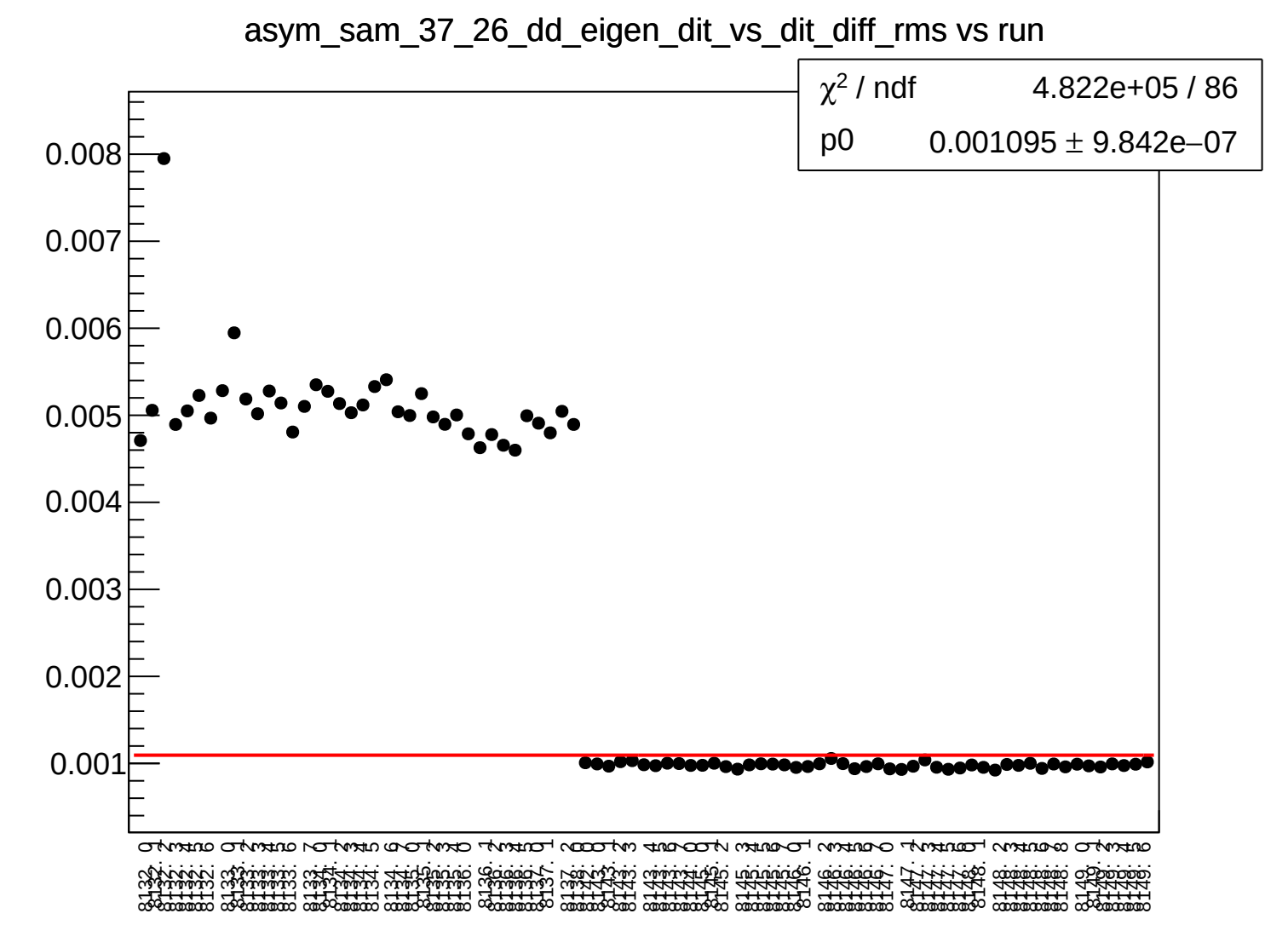

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.28 / 86
p0 0.01645 ± 0.02728
pull
Entries 87
Mean 78.3
Std Dev 30.68

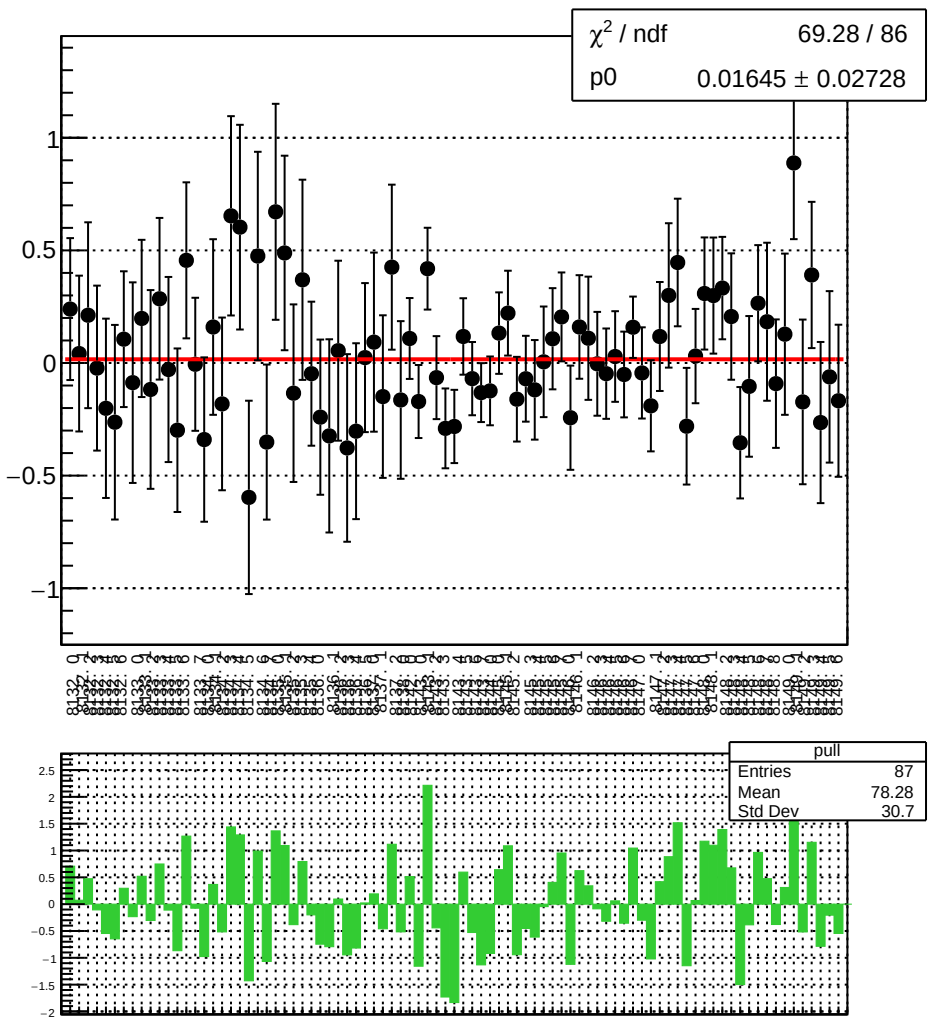

pull1D
Entries 87
Mean 0.04434
Std Dev 0.8913

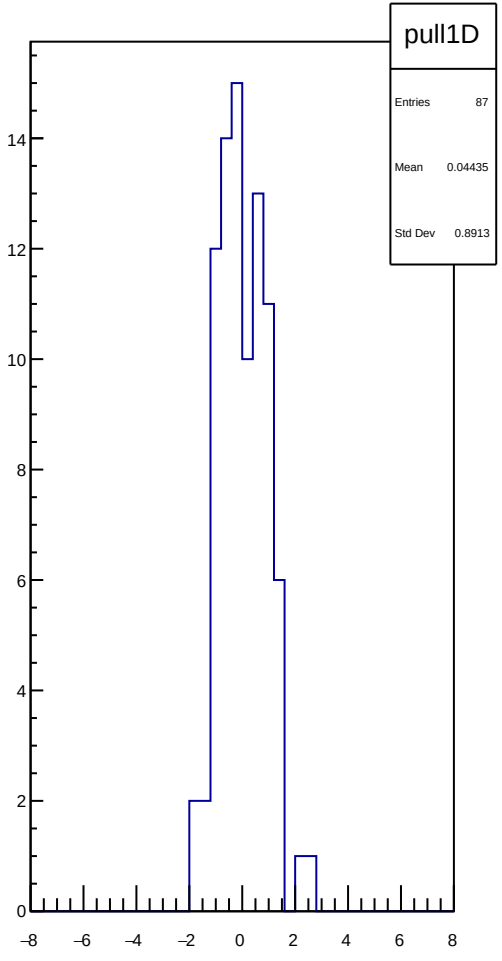

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.913e+05 / 86
p0 23.84 ± 0.01929
45
40
35
30
25
20
15

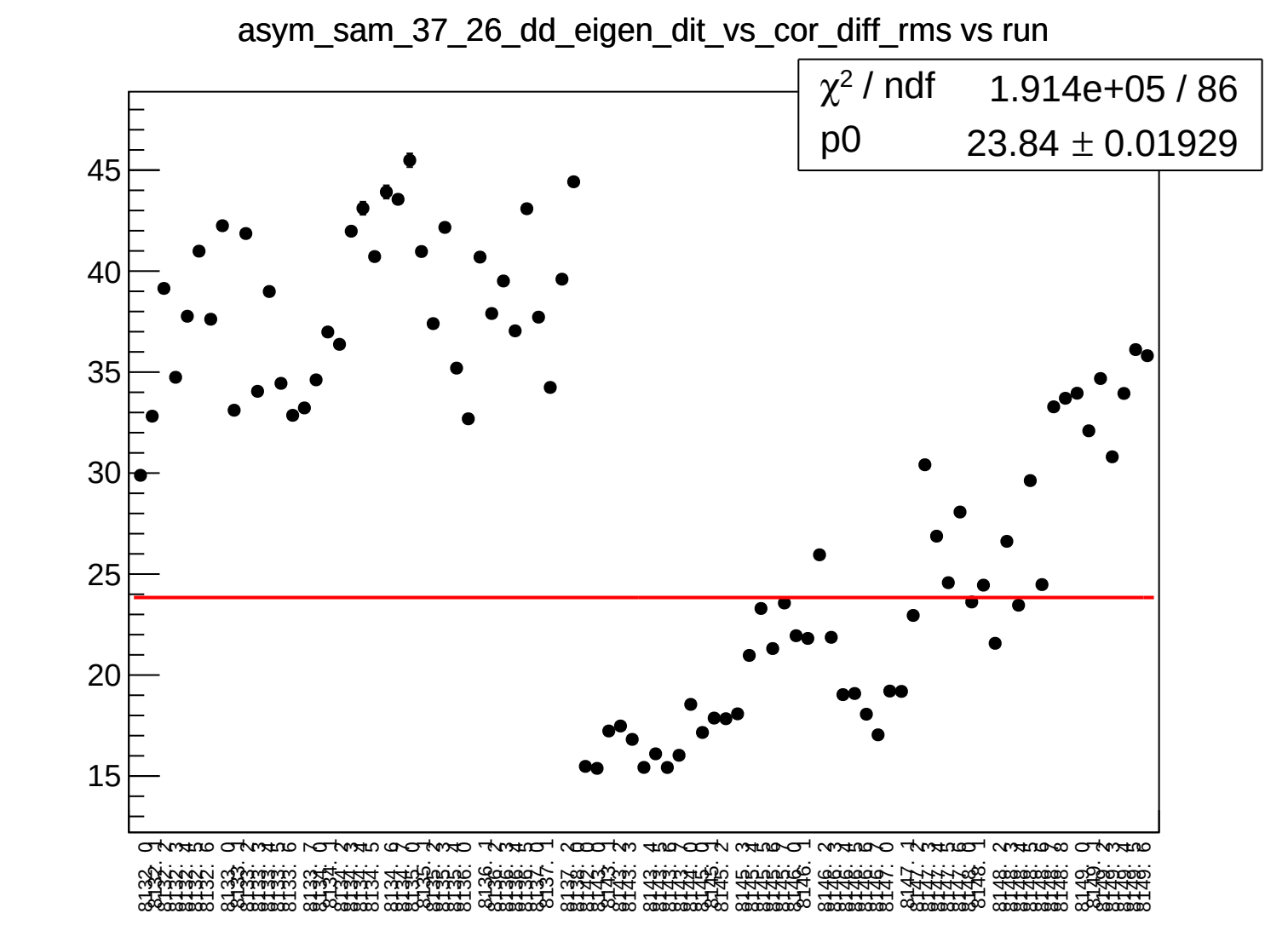

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.17 / 86
p0 −4.06e−07 ± 1.392e−06
pull
Entries 87
Mean 5.801
Std Dev 0

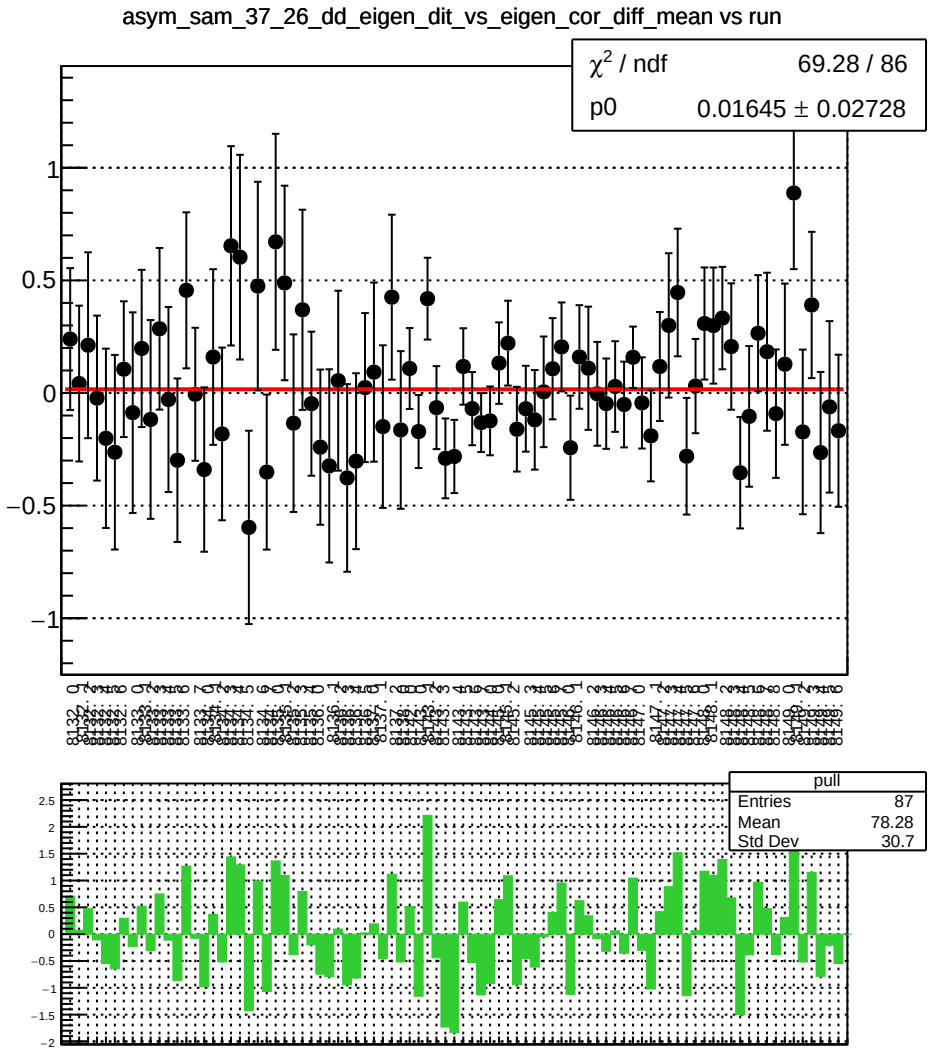

pull1D
Entries 87
Mean 0.1029
Std Dev 1.024

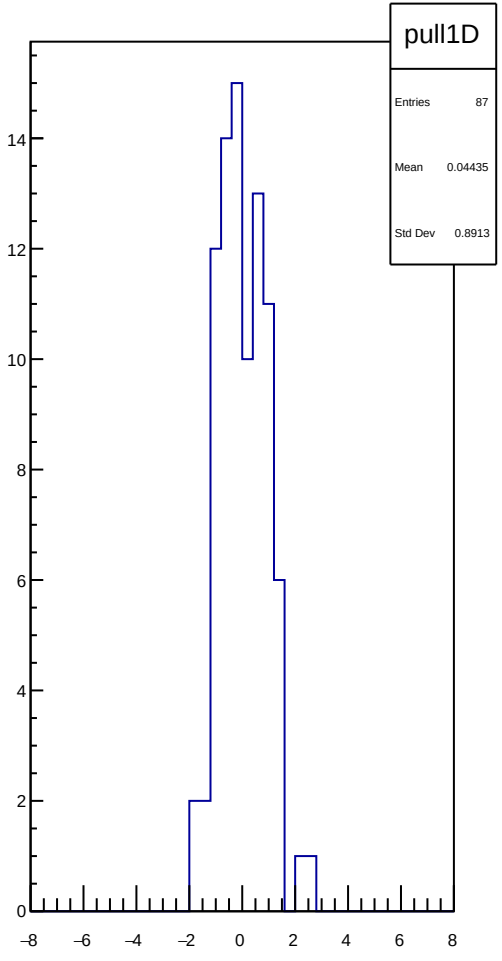

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.822e+05 / 86
p0 0.001095 ± 9.842e−07
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001

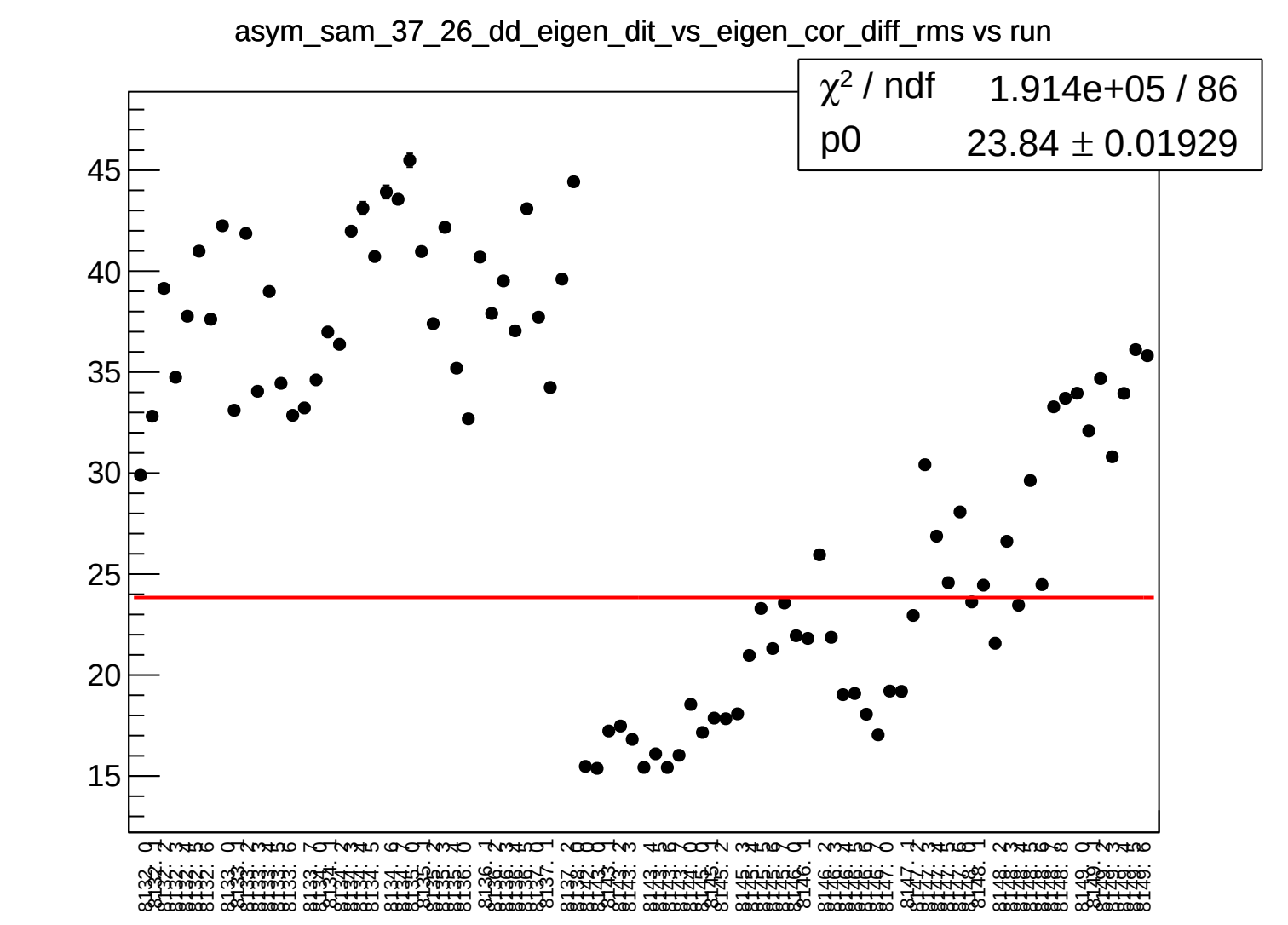

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 69.28 / 86
p0 0.01645 ± 0.02728
pull
Entries 87
Mean 78.28
Std Dev 30.7

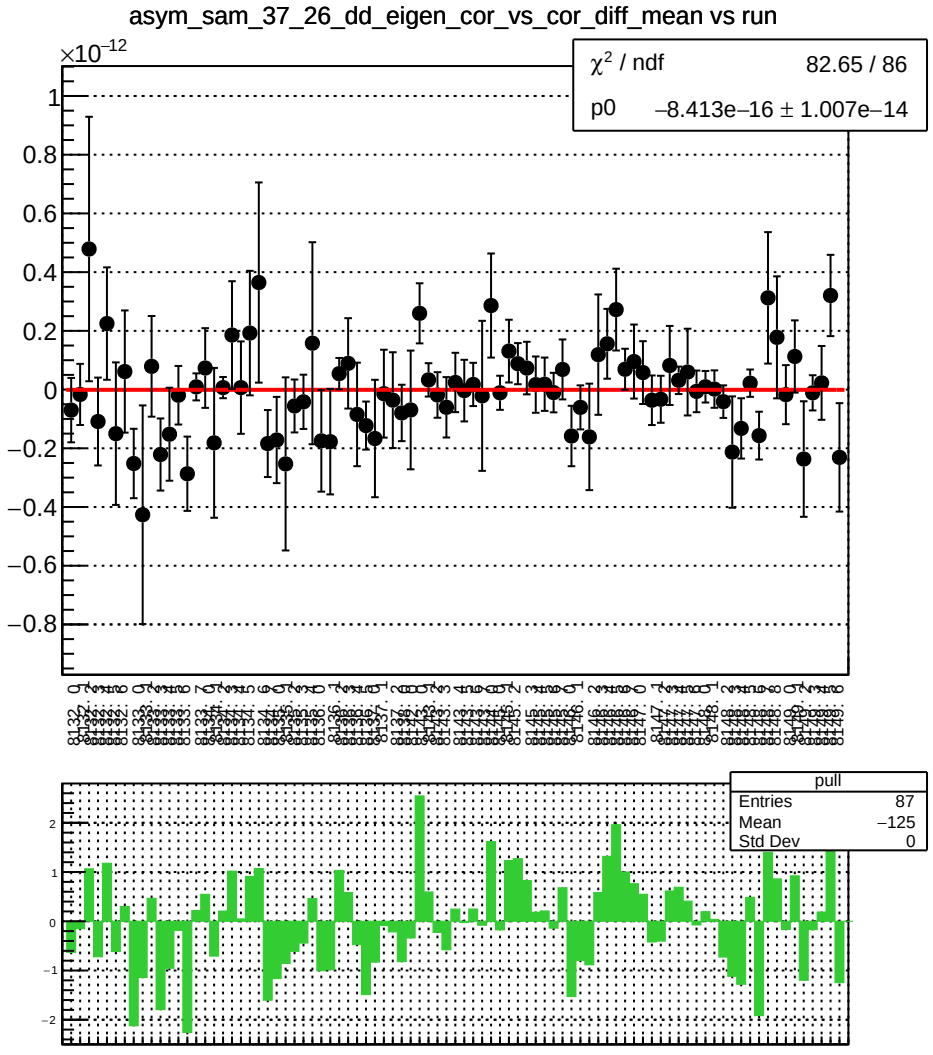

pull1D
Entries 87
Mean 0.04435
Std Dev 0.8913

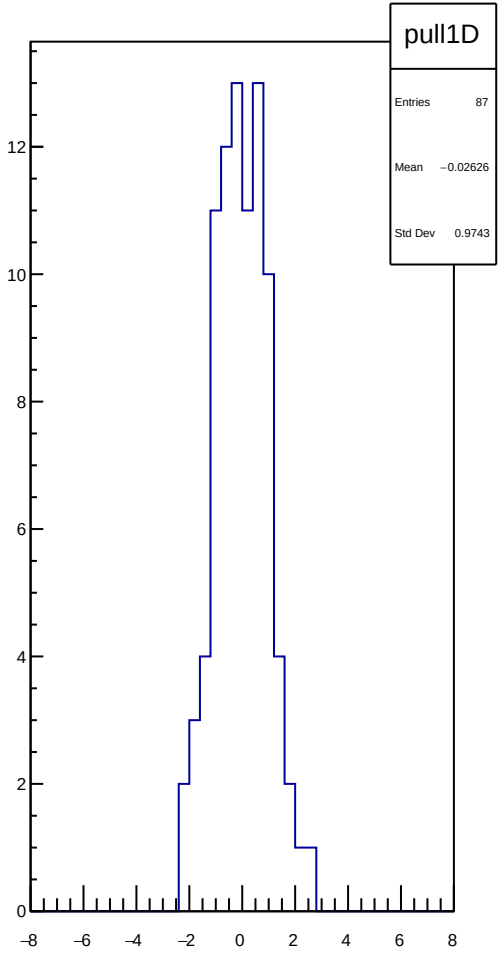

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.914e+05 / 86
p0 23.84 ± 0.01929
45
40
35
30
25
20
15

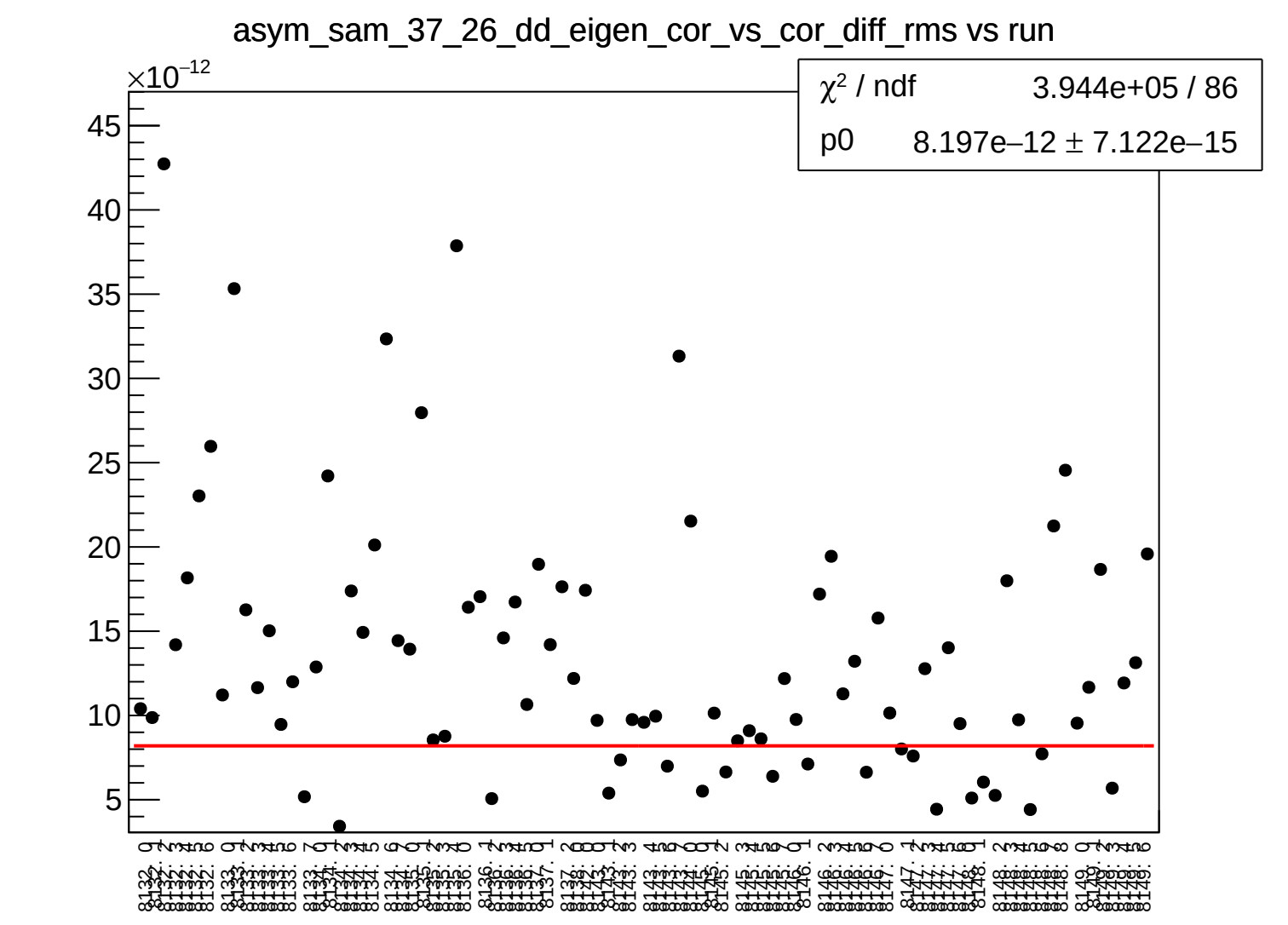

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.28 / 86
p0 0.01645 ± 0.02728
pull
Entries 87
Mean 78.28
Std Dev 30.7

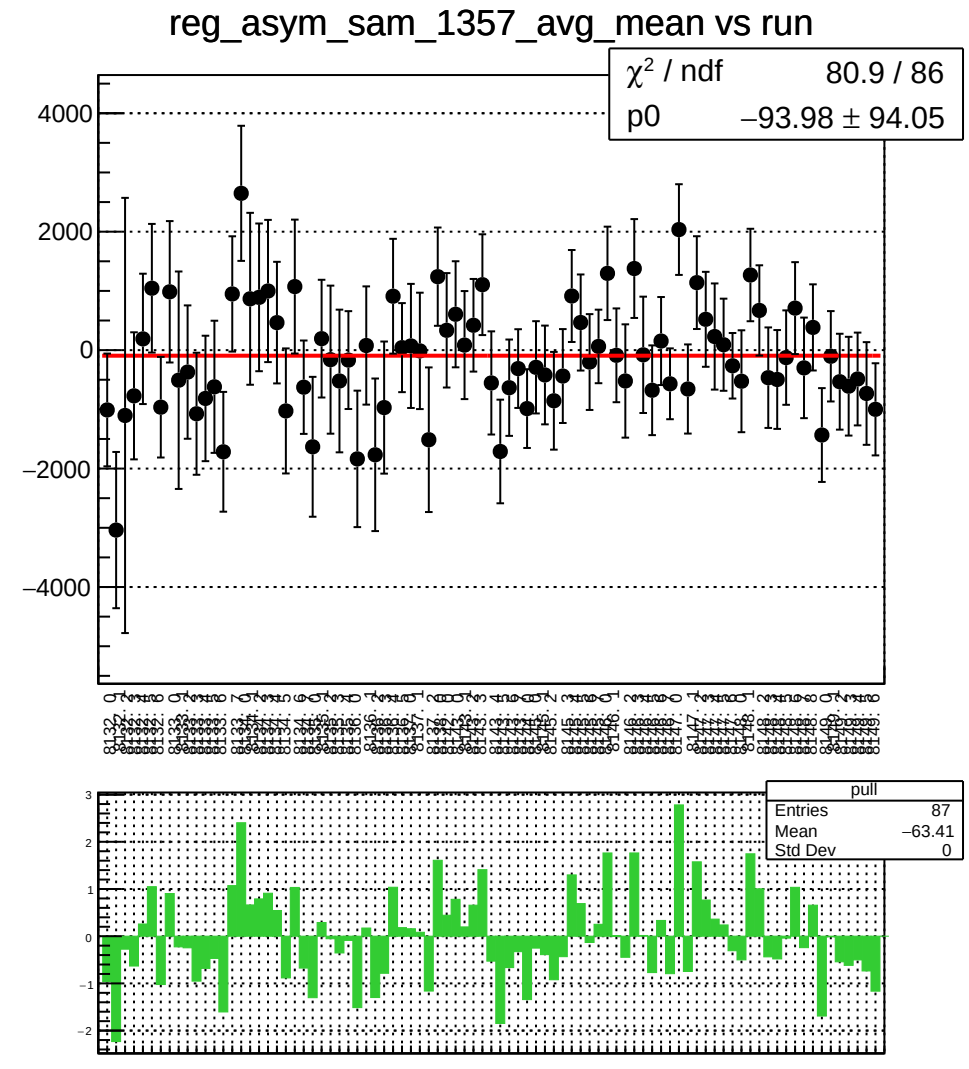

pull1D
Entries 87
Mean 0.04435
Std Dev 0.8913

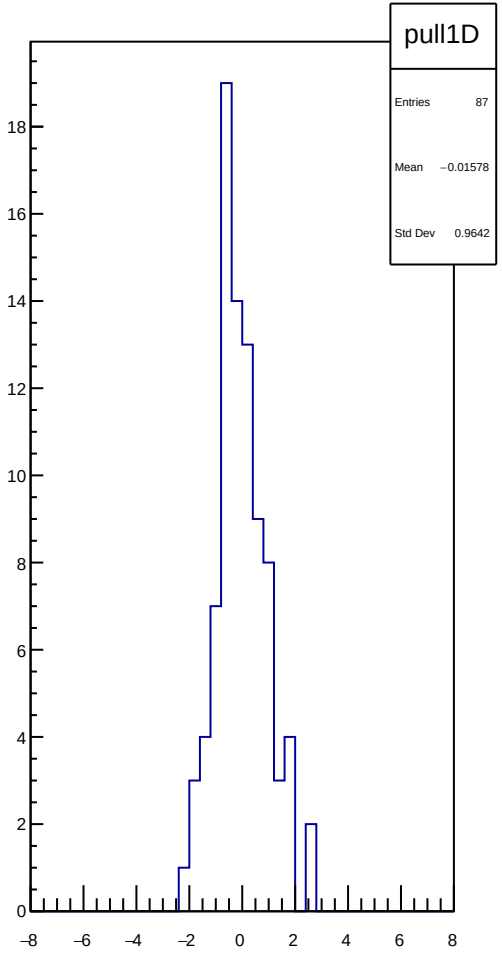

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.914e+05 / 86
p0 23.84 ± 0.01929
45
40
35
30
25
20
15

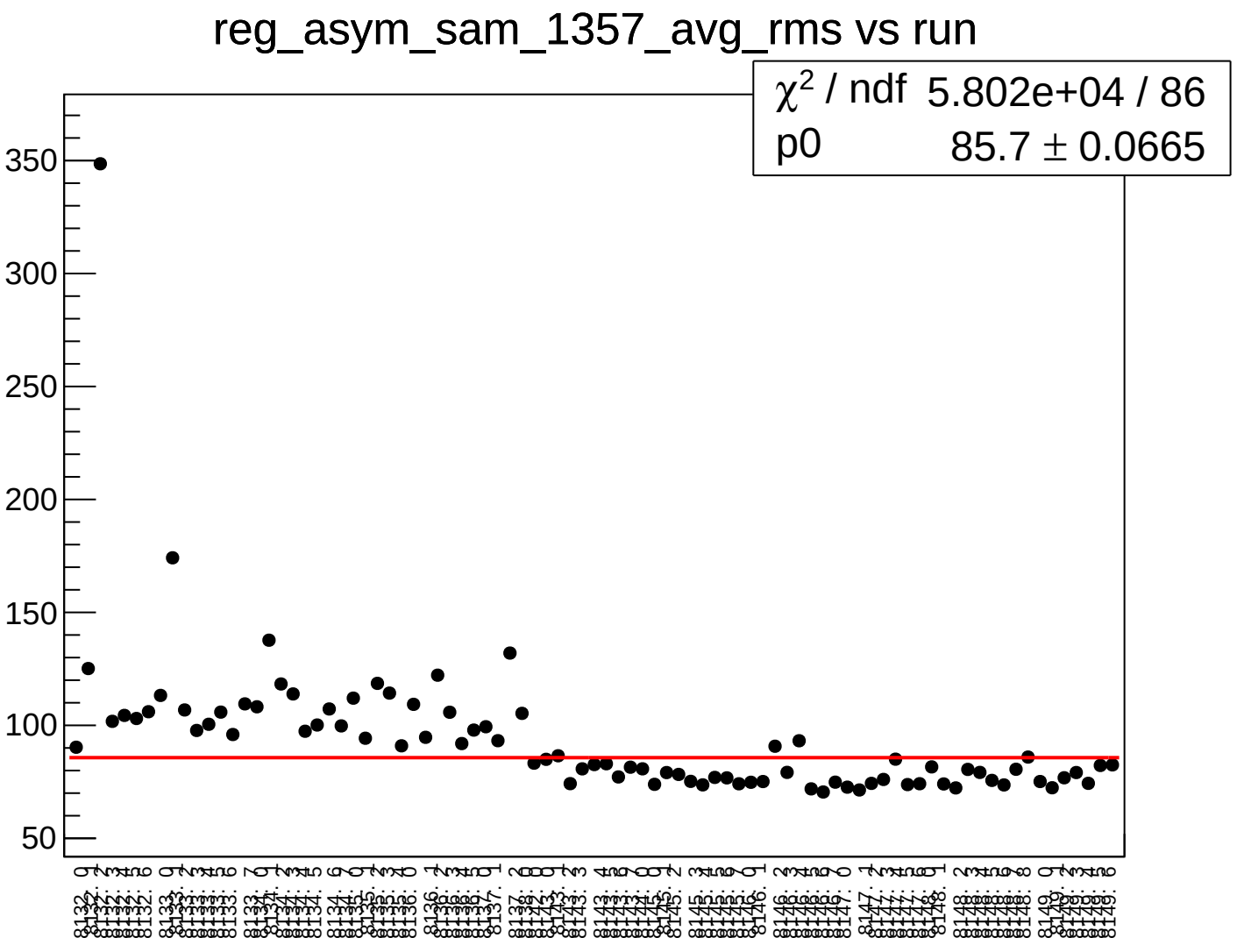

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 82.65 / 86
p0 −8.413e−16 ± 1.007e−14
pull
Entries 87
Mean −125
Std Dev 0

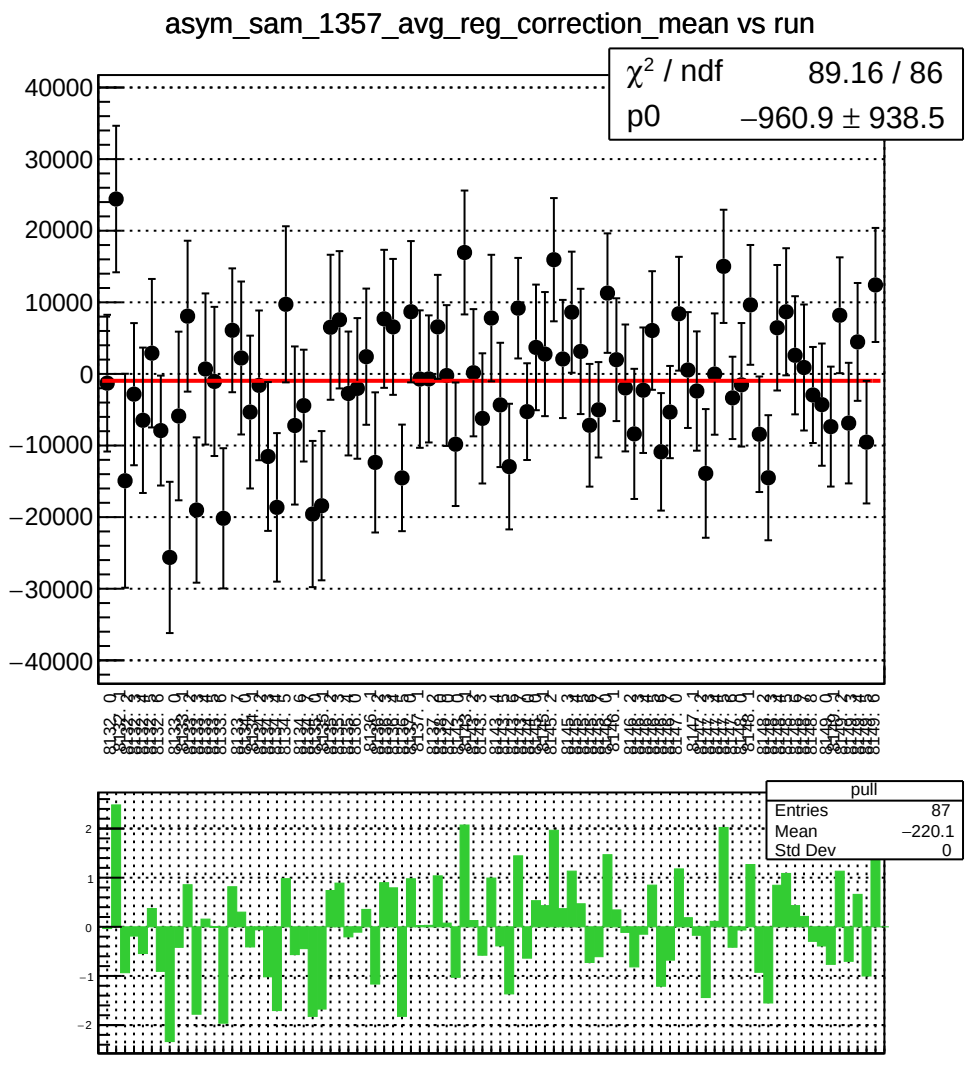

pull1D
Entries 87
Mean −0.02626
Std Dev 0.9743

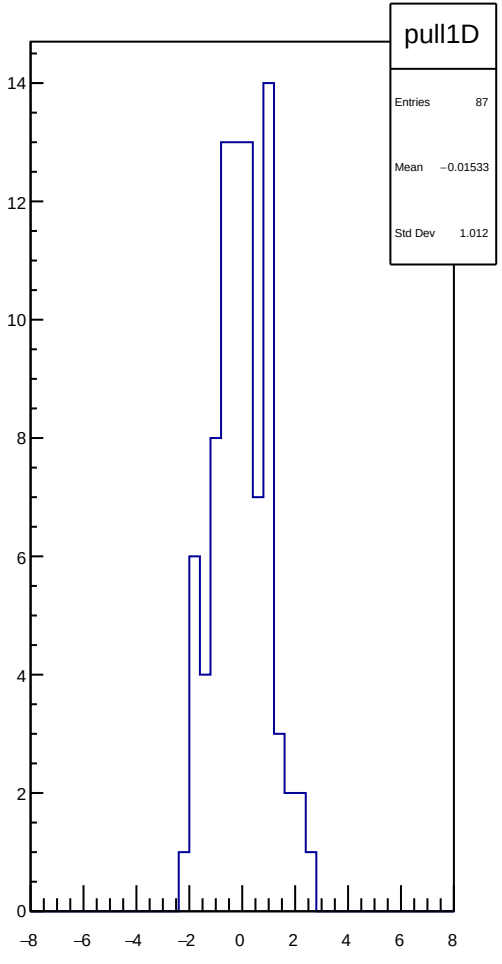

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.944e+05 / 86
p0 8.197e−12 ± 7.122e−15
45
40
35
30
25
20
15
10
5

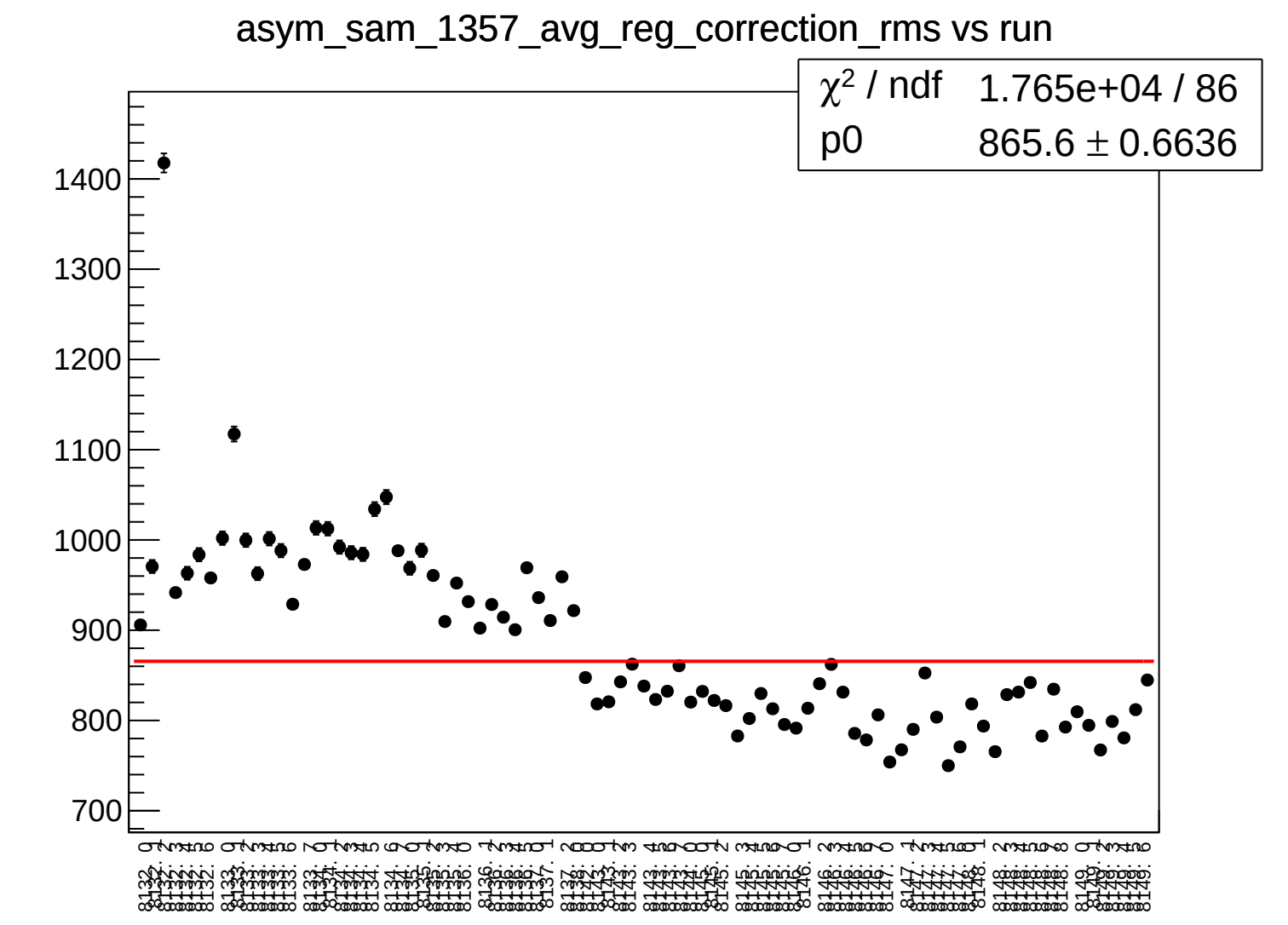

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 80.9 / 86
p0 −93.98 ± 94.05
4000
2000
0
−2000
−4000
pull
Entries 87
Mean −63.41
Std Dev 0
3
2
1
0
−1
−2

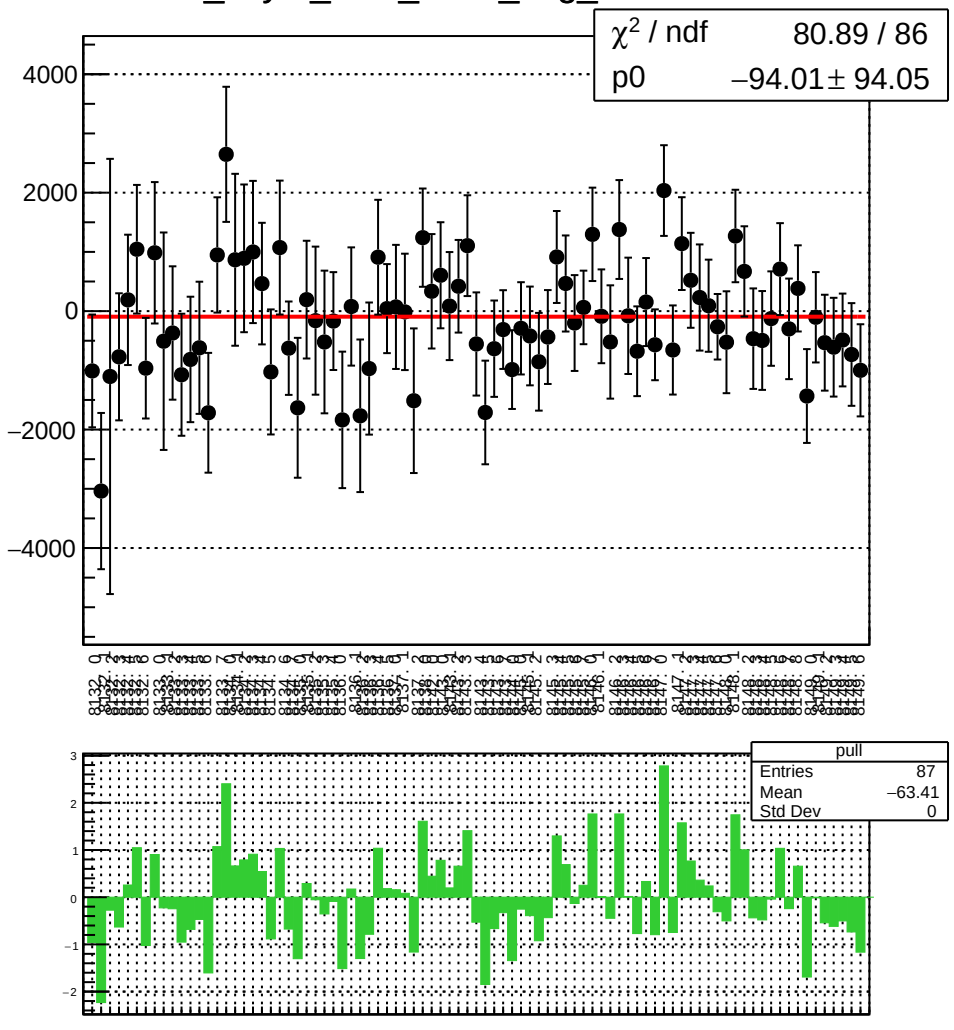

pull1D
Entries 87
Mean −0.01578
Std Dev 0.9642
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

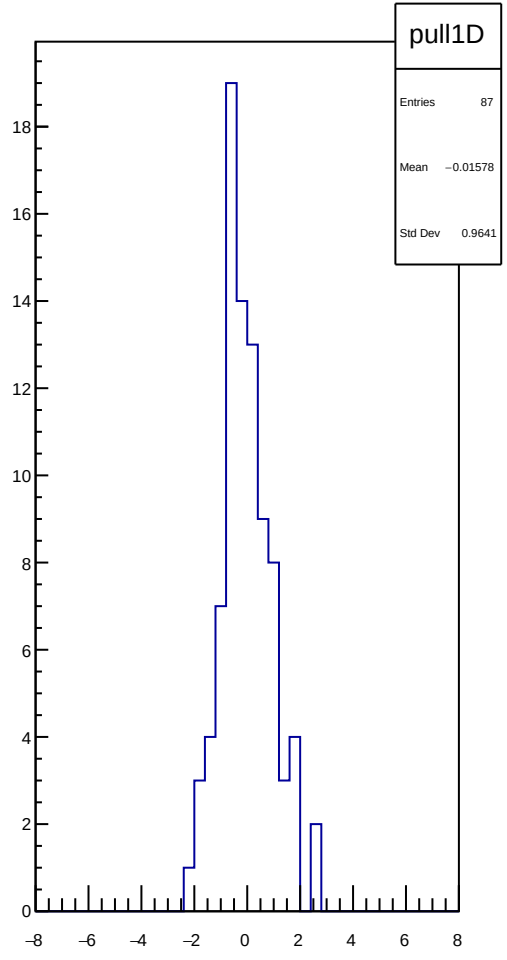

reg_asym_sam_1357_avg_rms vs run
χ² / ndf 5.802e+04 / 86
p0 85.7 ± 0.0665
350
300
250
200
150
100
50

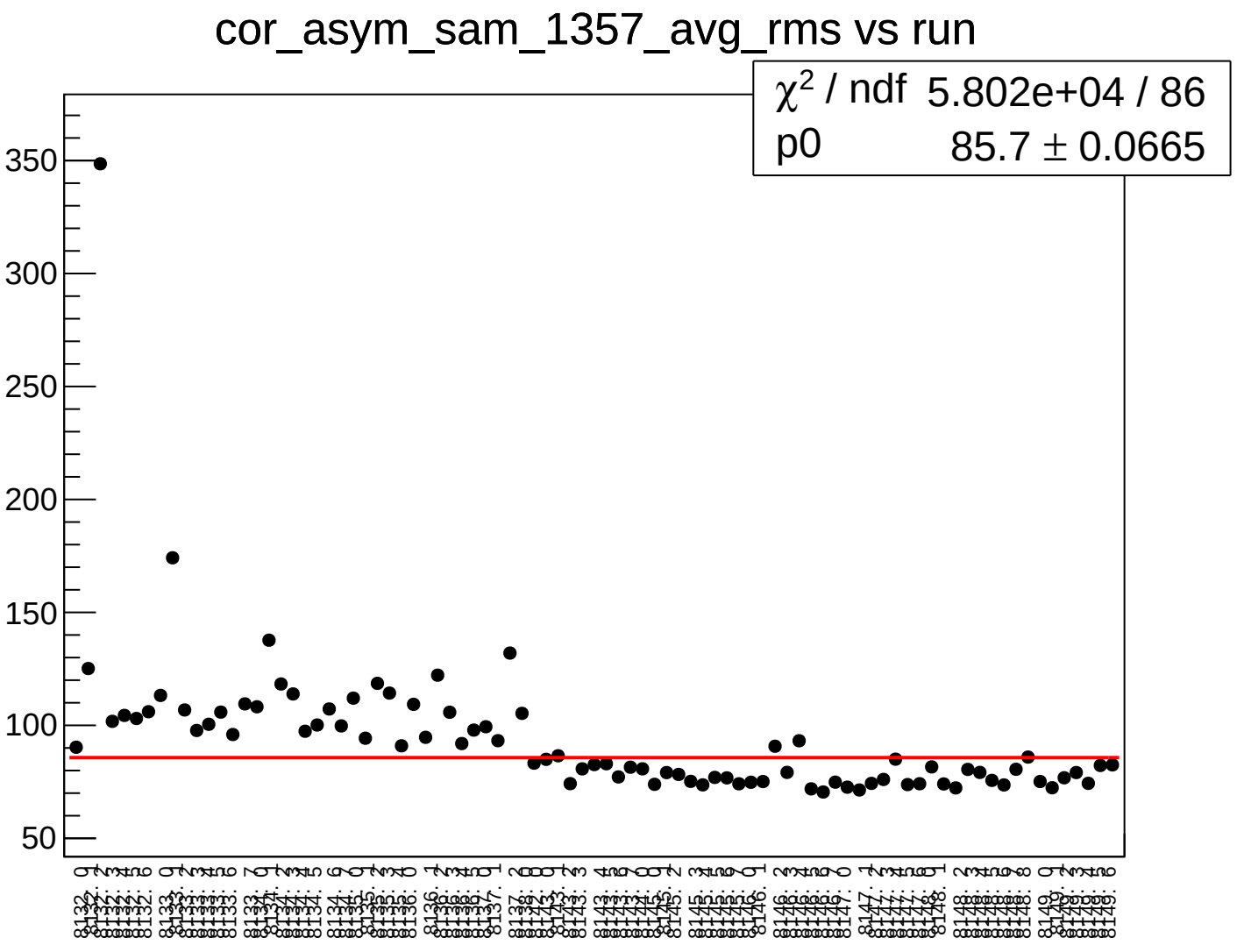

asym_sam_1357_avg_reg_correction_mean vs run
χ² / ndf 89.16 / 86
p0 −960.9 ± 938.5
pull
Entries 87
Mean −220.1
Std Dev 0

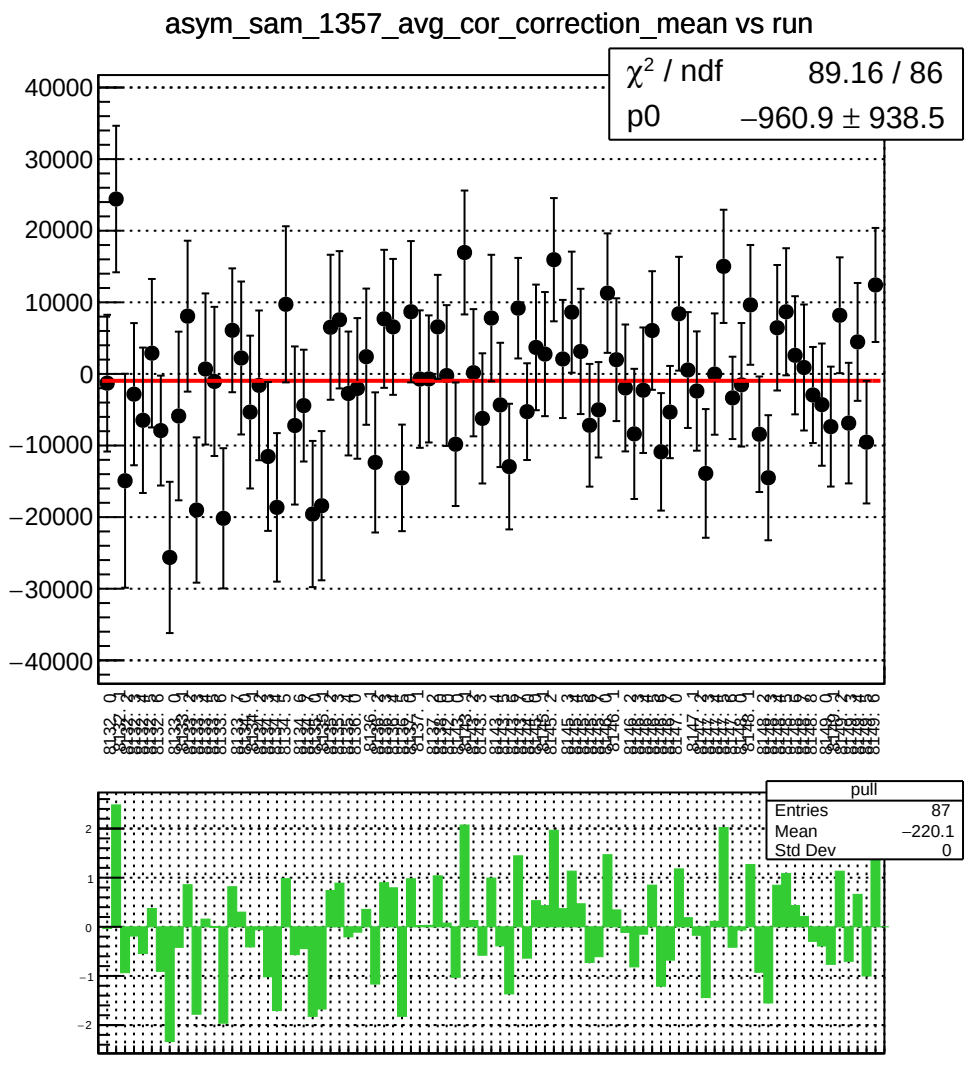

pull1D
Entries 87
Mean −0.01533
Std Dev 1.012

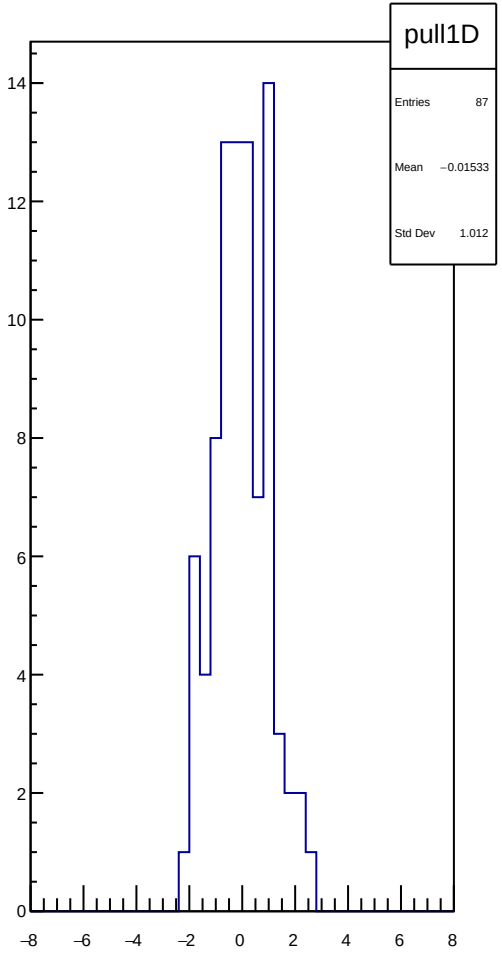

asym_sam_1357_avg_reg_correction_rms vs run
χ² / ndf 1.765e+04 / 86
p0 865.6 ± 0.6636
1400
1300
1200
1100
1000
900
800
700

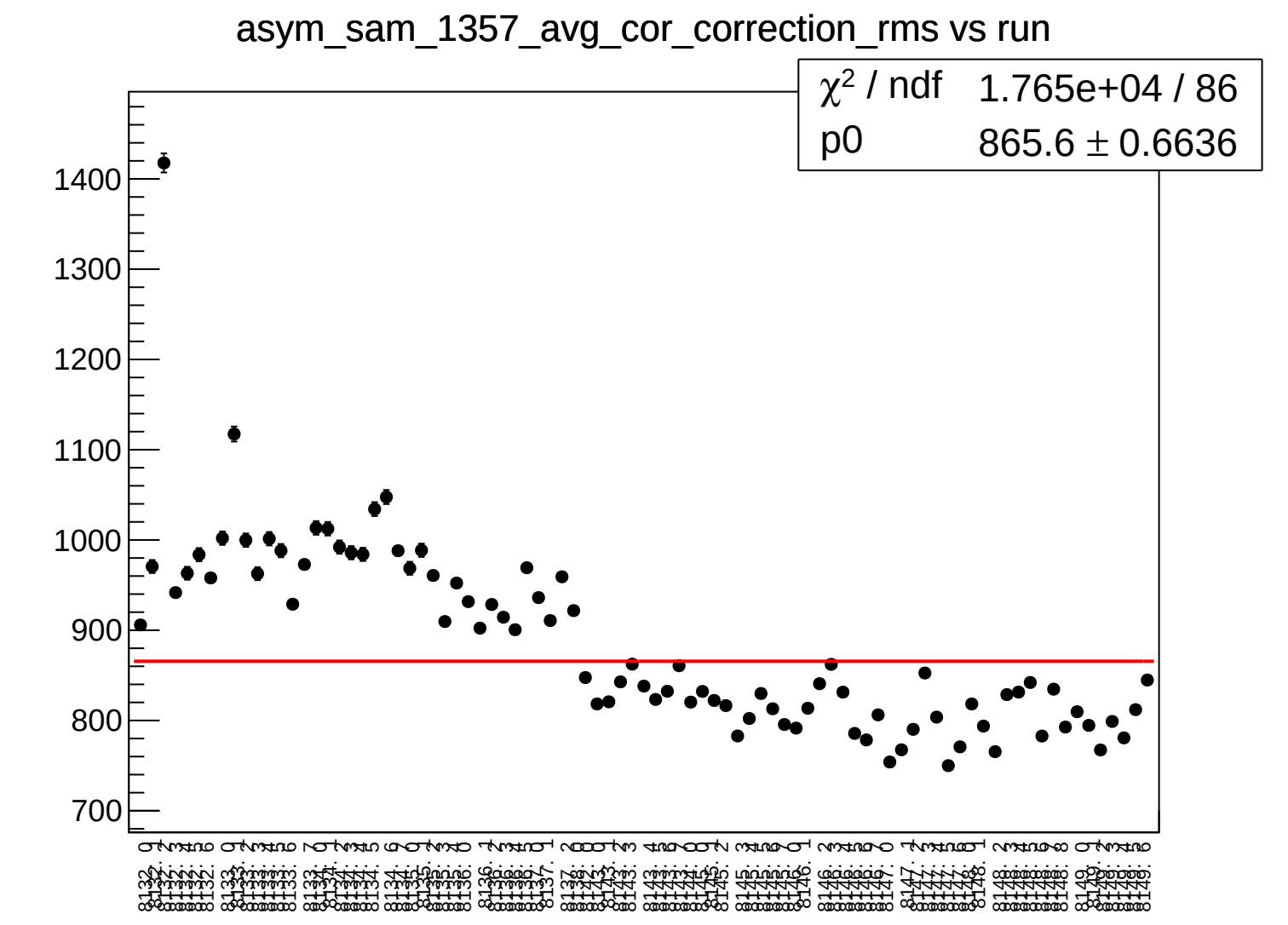

cor_asym_sam_1357_avg_mean vs run
χ² / ndf 80.89 / 86
p0 −94.01 ± 94.05
4000
2000
0
−2000
−4000
pull
Entries 87
Mean −63.41
Std Dev 0
3
2
1
0
−1
−2

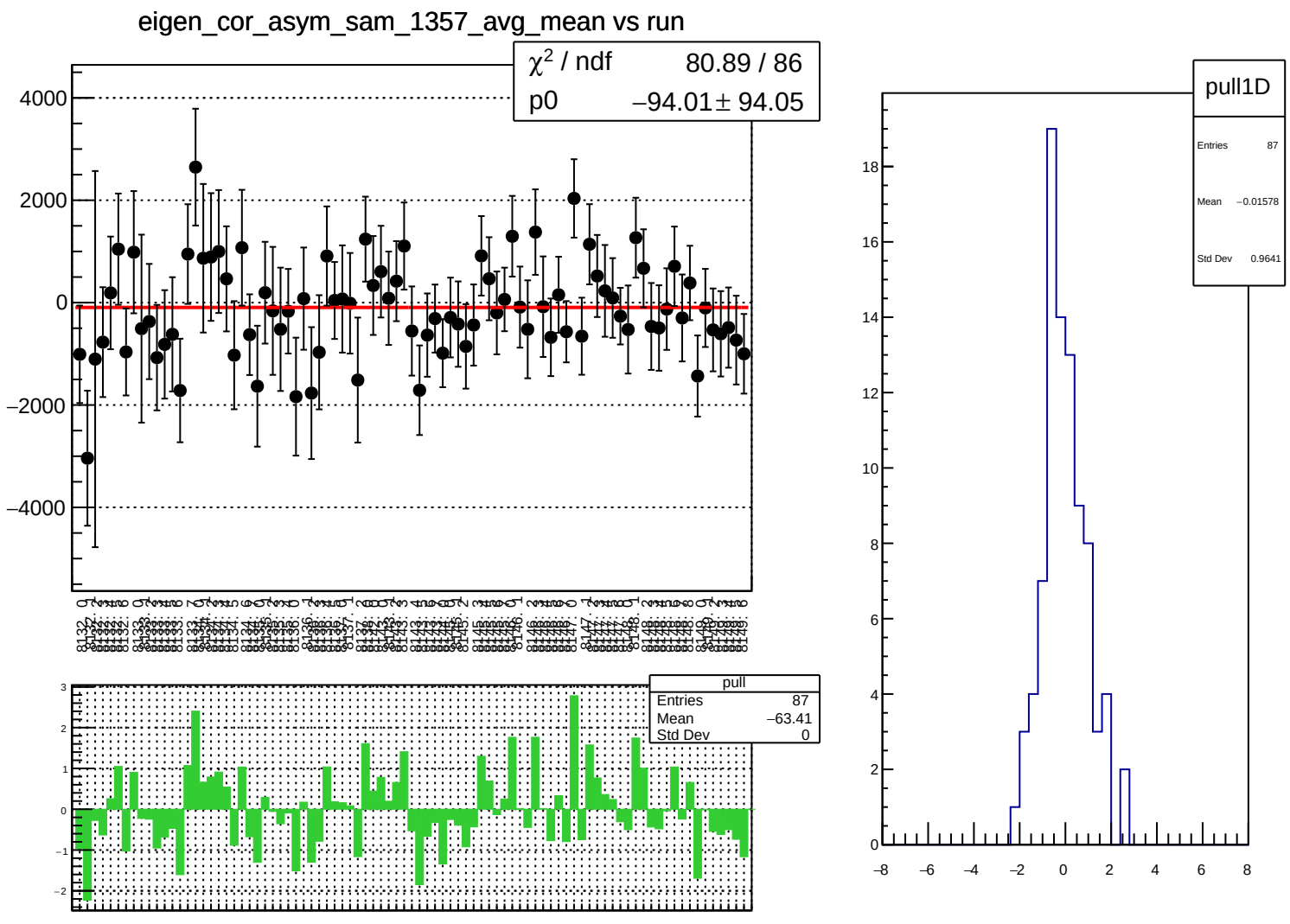

pull1D
Entries 87
Mean −0.01578
Std Dev 0.9641
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

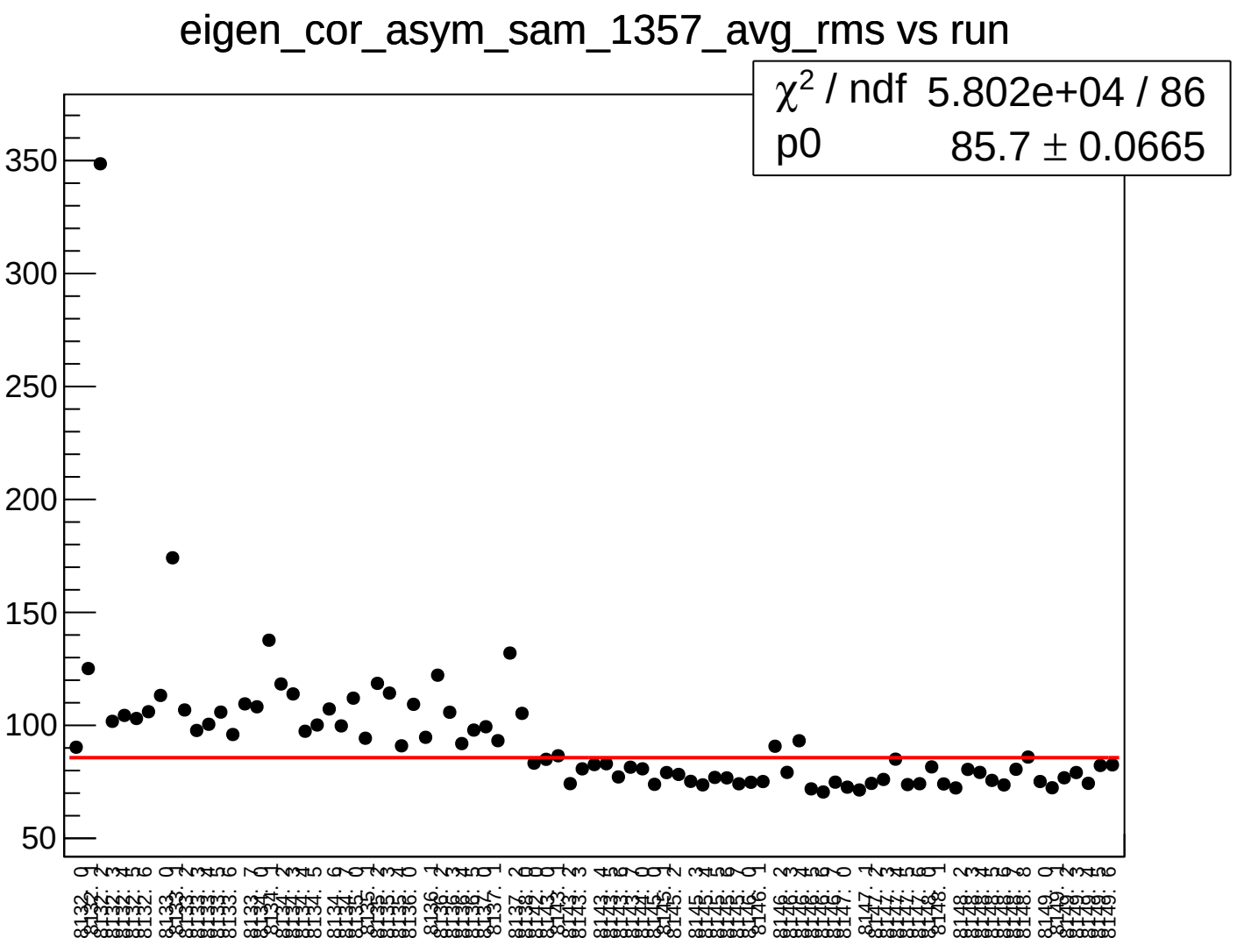

cor_asym_sam_1357_avg_rms vs run
χ^2 / ndf 5.802e+04 / 86
p0 85.7 ± 0.0665
350
300
250
200
150
100
50

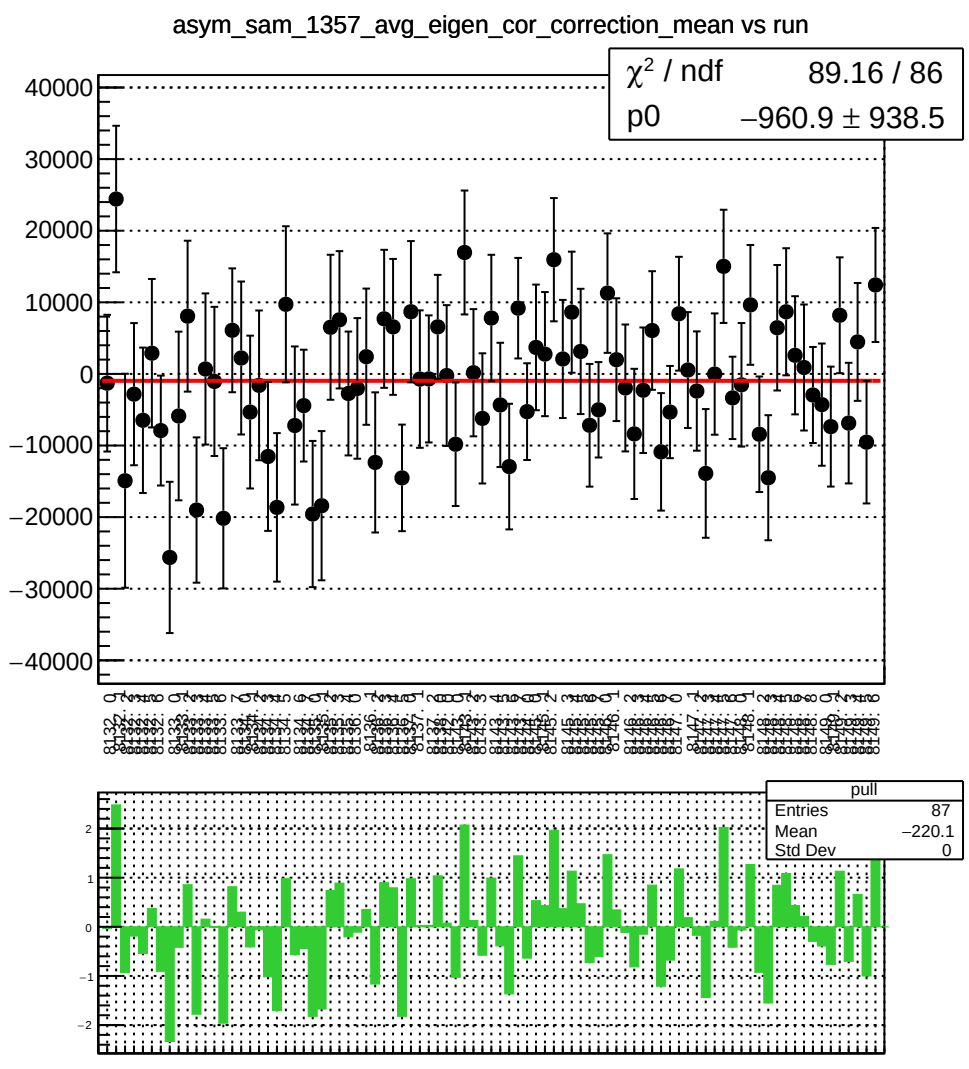

asym_sam_1357_avg_cor_correction_mean vs run
χ² / ndf 89.16 / 86
p0 −960.9 ± 938.5
pull
Entries 87
Mean −220.1
Std Dev 0

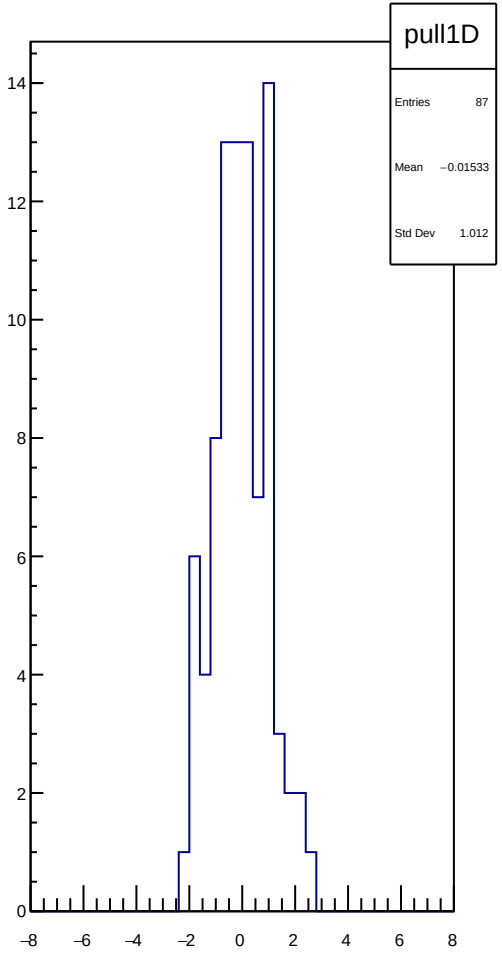

pull1D
Entries 87
Mean −0.01533
Std Dev 1.012

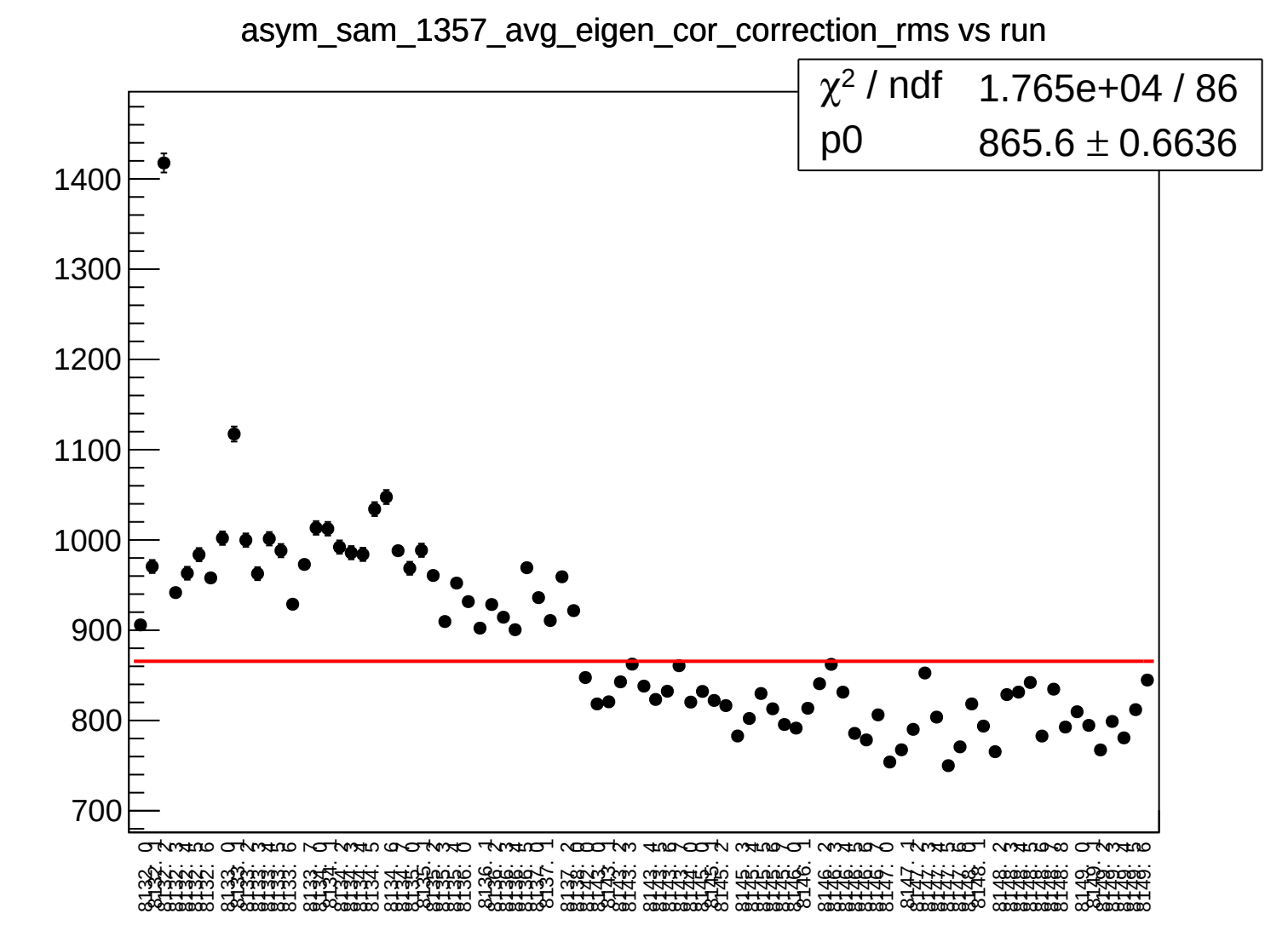

asym_sam_1357_avg_cor_correction_rms vs run
χ² / ndf 1.765e+04 / 86
p0 865.6 ± 0.6636
1400
1300
1200
1100
1000
900
800
700

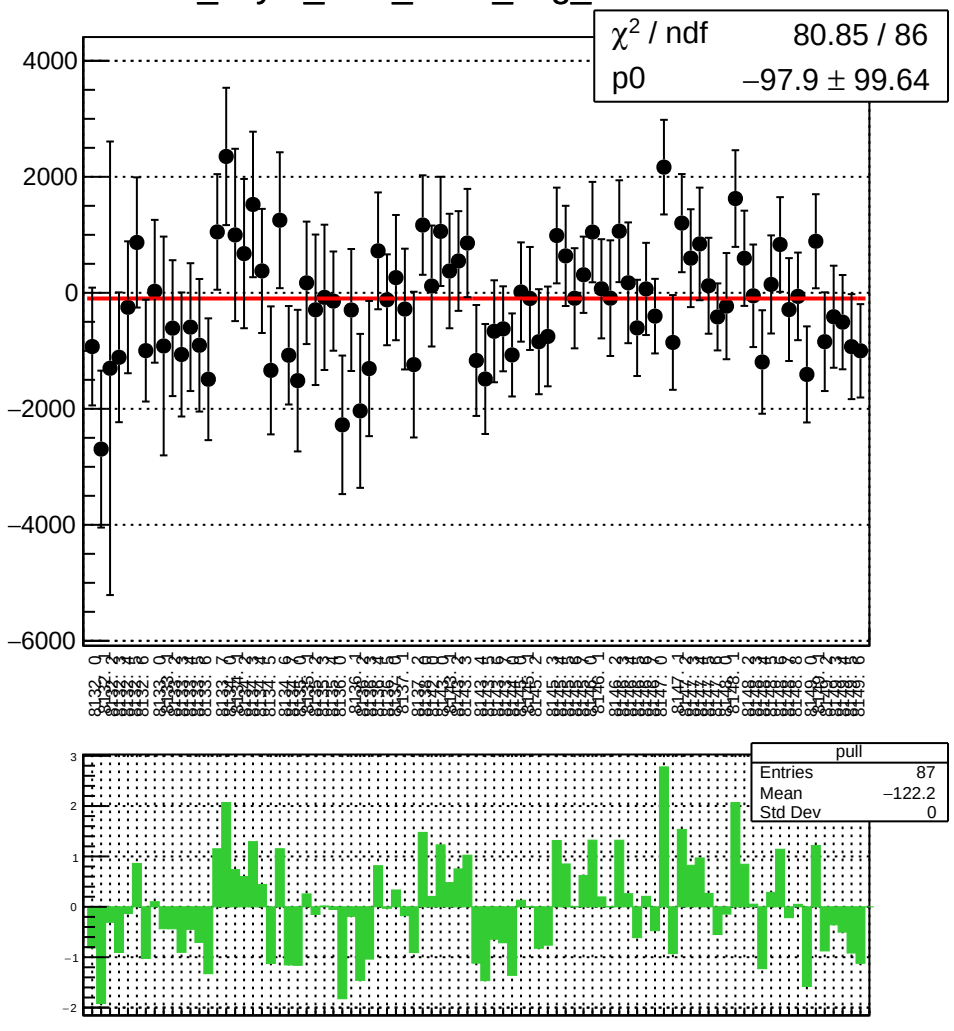

eigen_cor_asym_sam_1357_avg_mean vs run
χ² / ndf 80.89 / 86
p0 −94.01 ± 94.05
4000
2000
0
−2000
−4000
pull
Entries 87
Mean −63.41
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.01578
Std Dev 0.9641
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

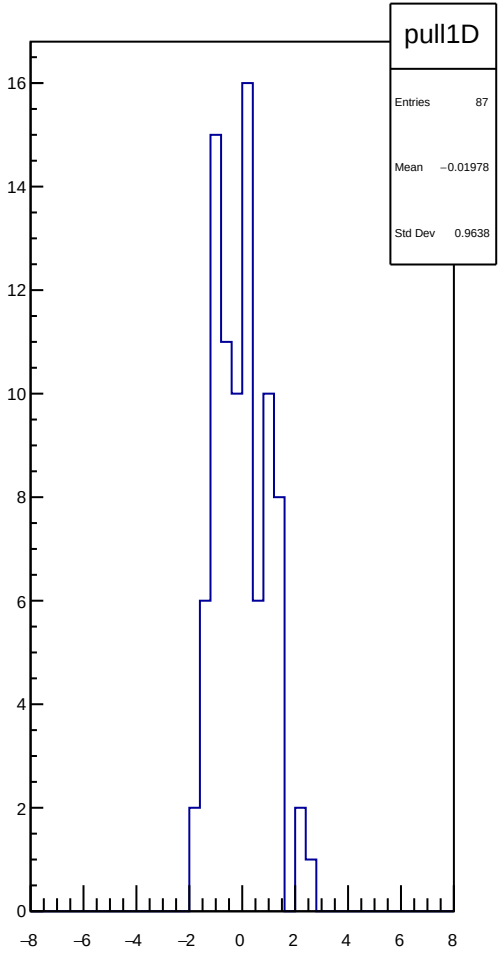

eigen_cor_asym_sam_1357_avg_rms vs run
χ² / ndf 5.802e+04 / 86
p0 85.7 ± 0.0665
350
300
250
200
150
100
50

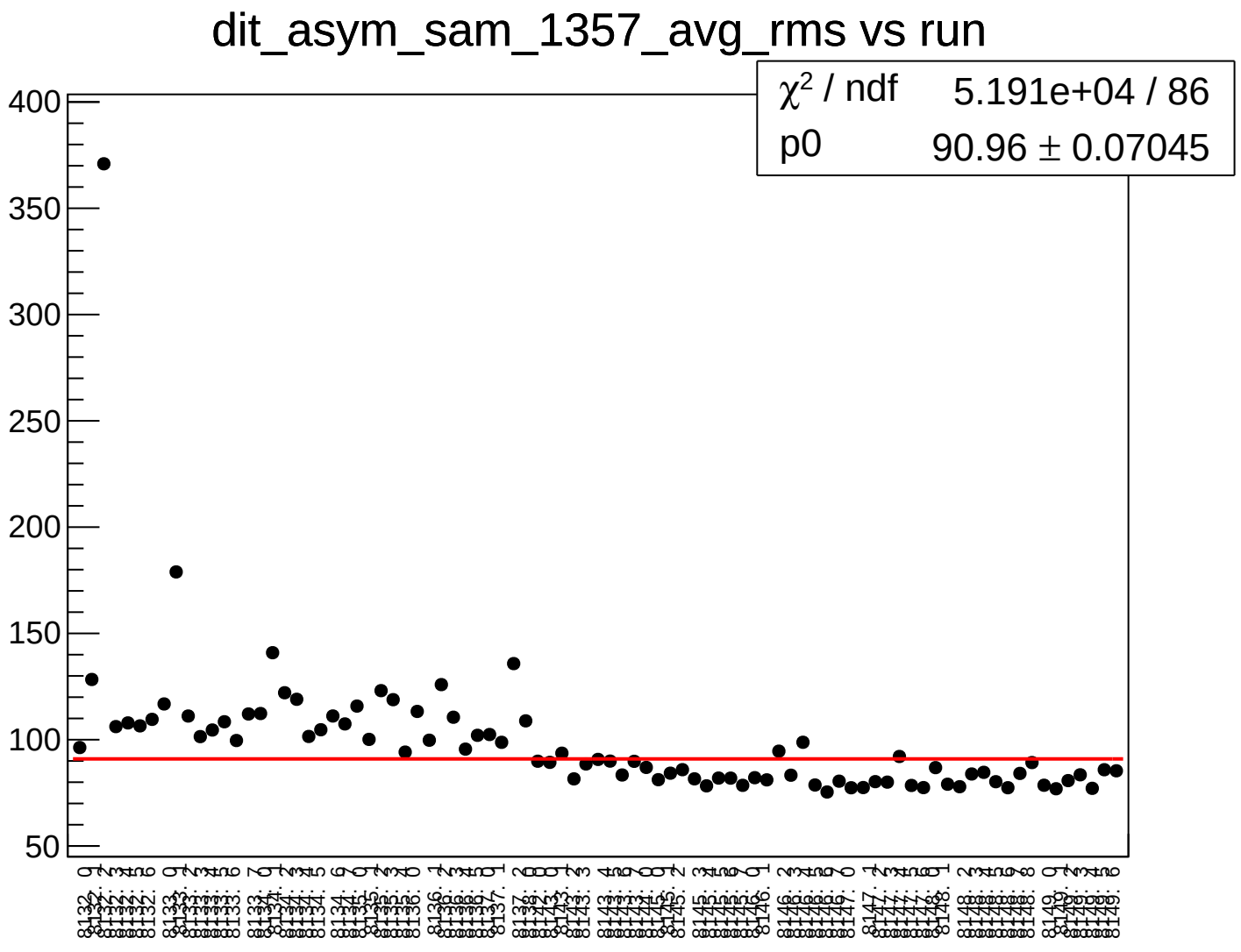

asym_sam_1357_avg_eigen_cor_correction_mean vs run
χ² / ndf 89.16 / 86
p0 −960.9 ± 938.5
pull
Entries 87
Mean −220.1
Std Dev 0

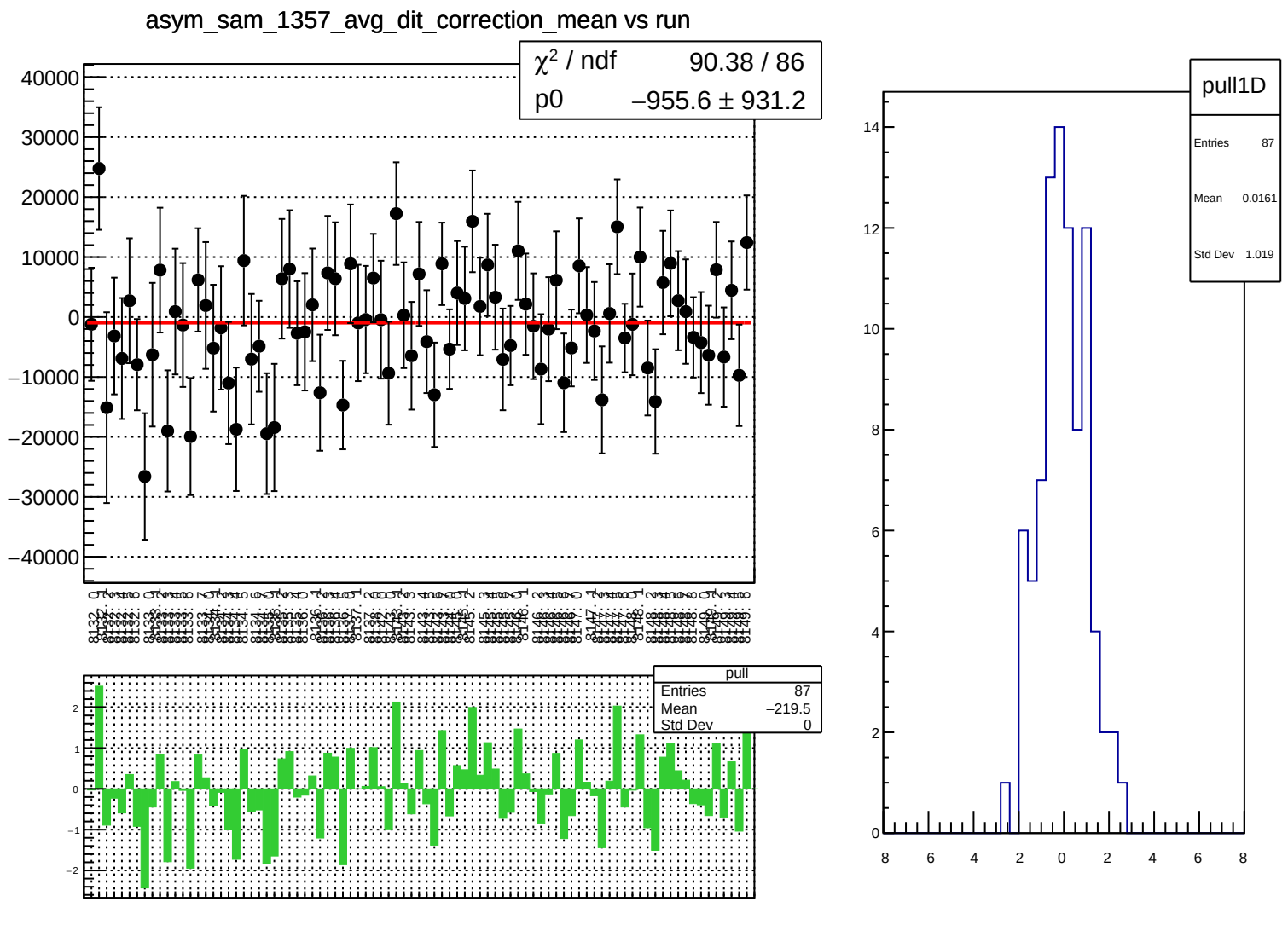

pull1D
Entries 87
Mean −0.01533
Std Dev 1.012

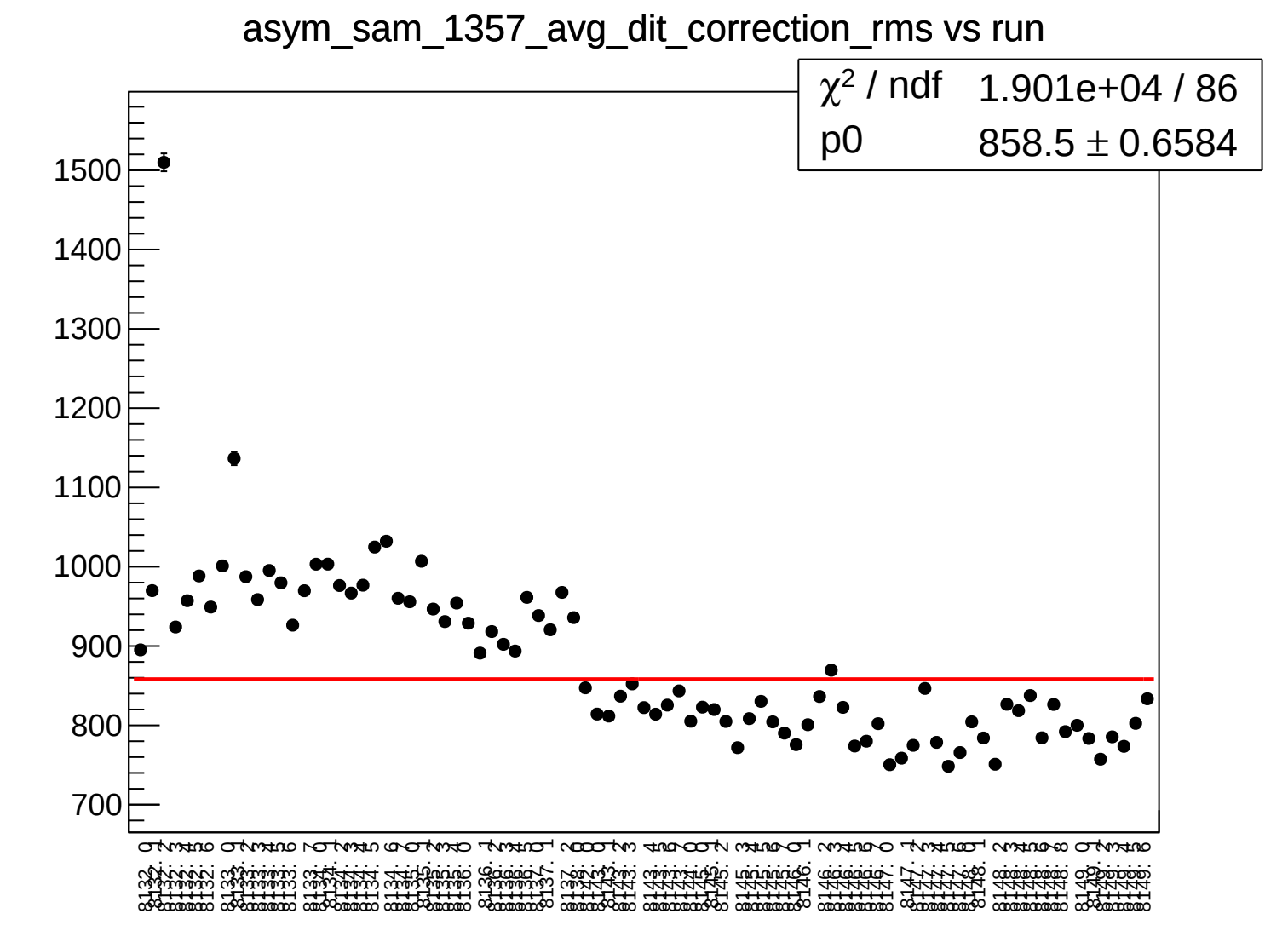

asym_sam_1357_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.765e+04 / 86
p0 865.6 ± 0.6636
1400
1300
1200
1100
1000
900
800
700

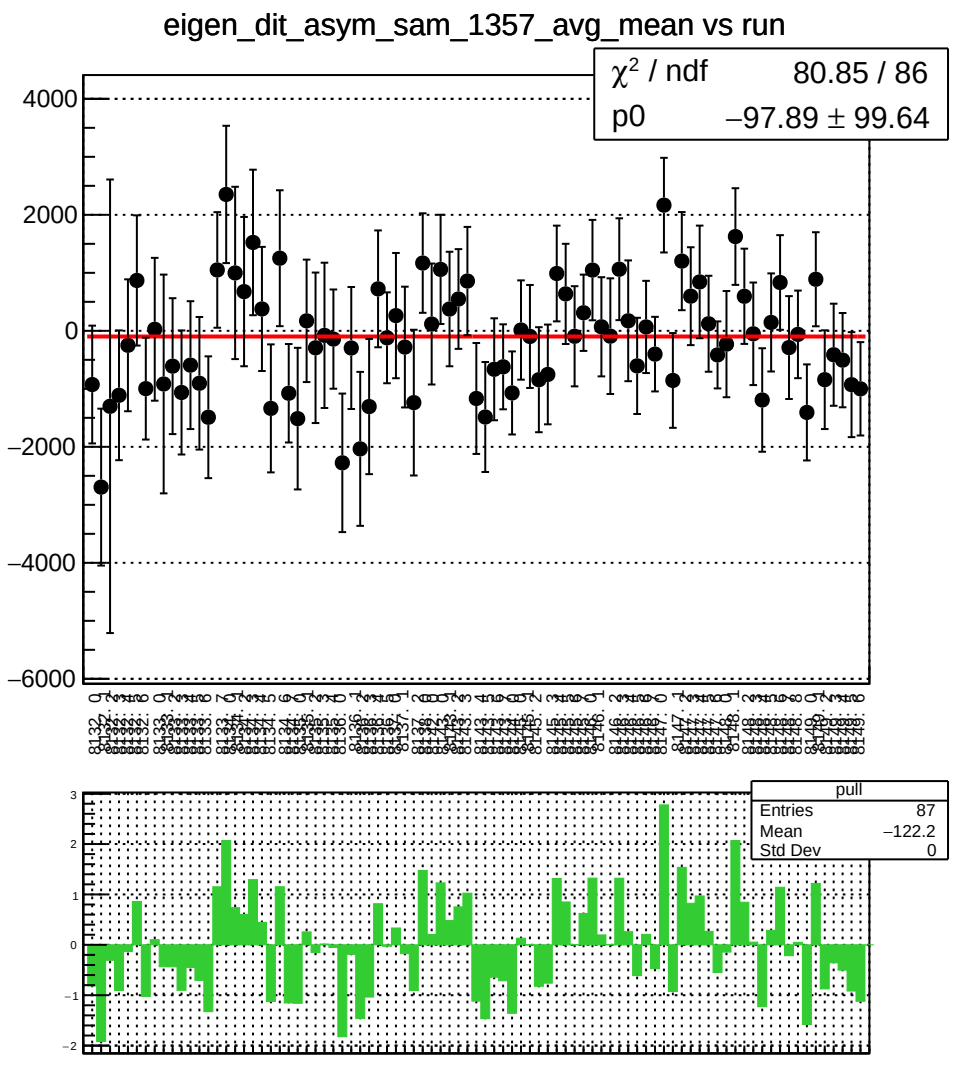

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 80.85 / 86
p0 −97.9 ± 99.64
4000
2000
0
−2000
−4000
−6000
pull
Entries 87
Mean −122.2
Std Dev 0
3
2
1
0
−1
−2

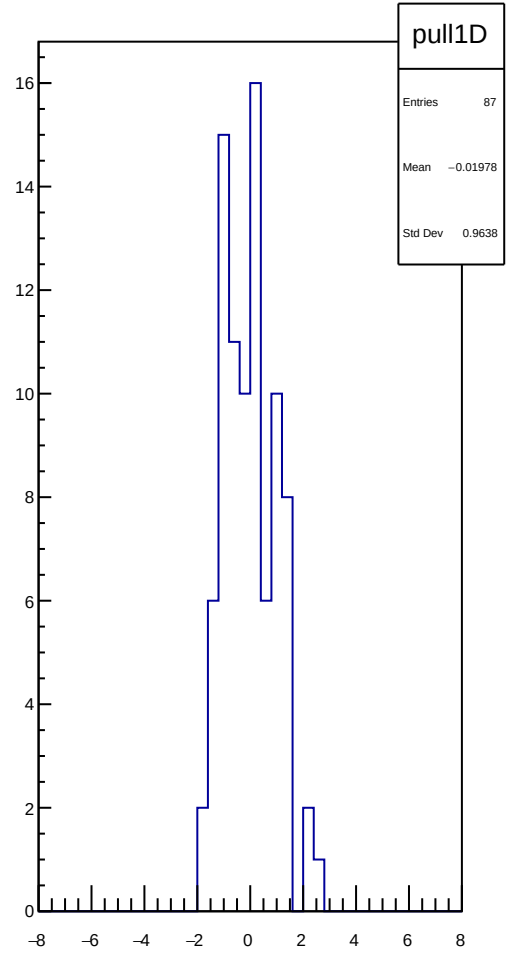

pull1D
Entries 87
Mean −0.01978
Std Dev 0.9638
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

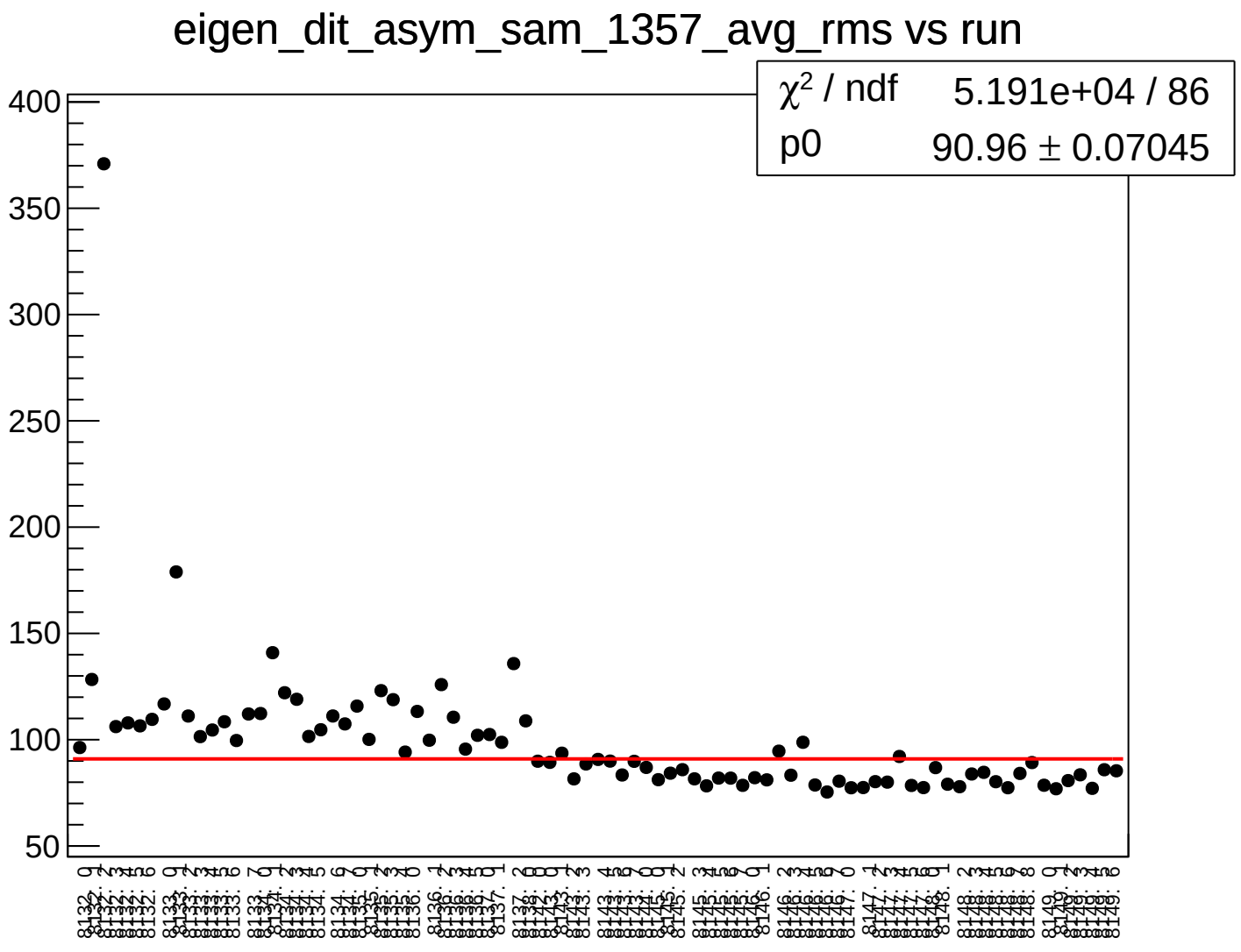

dit_asym_sam_1357_avg_rms vs run
χ^2 / ndf 5.191e+04 / 86
p0 90.96 ± 0.07045
400
350
300
250
200
150
100
50

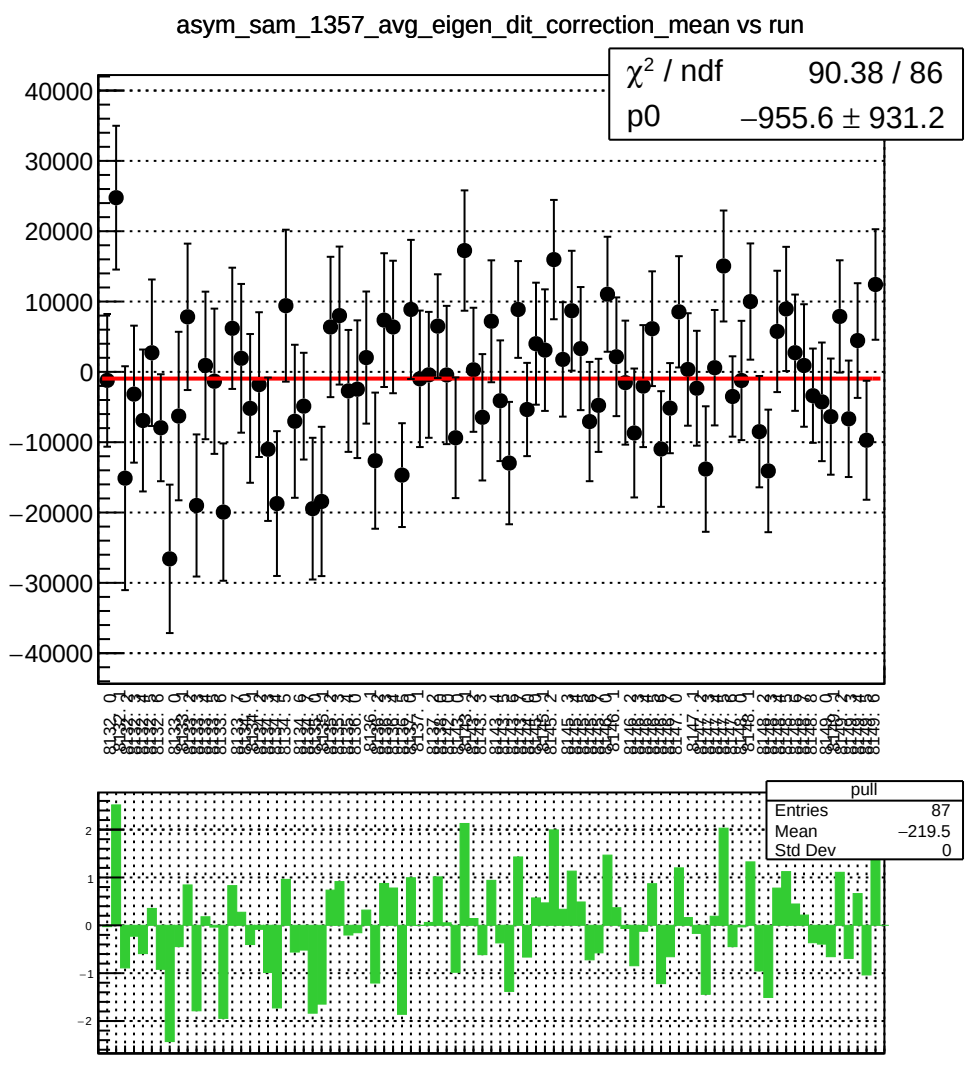

asym_sam_1357_avg_dit_correction_mean vs run
χ² / ndf 90.38 / 86
p0 −955.6 ± 931.2
pull
Entries 87
Mean −219.5
Std Dev 0
pull1D
Entries 87
Mean −0.0161
Std Dev 1.019

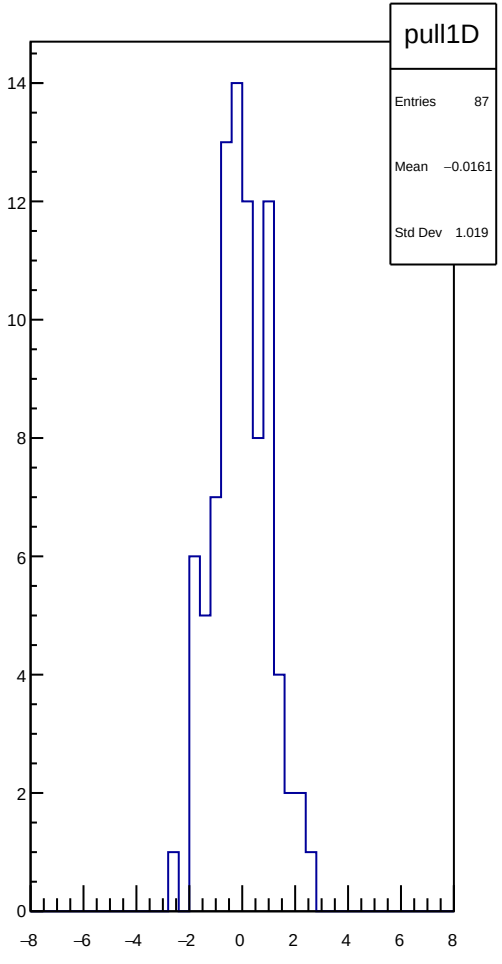

asym_sam_1357_avg_dit_correction_rms vs run
χ² / ndf 1.901e+04 / 86
p0 858.5 ± 0.6584
1500
1400
1300
1200
1100
1000
900
800
700

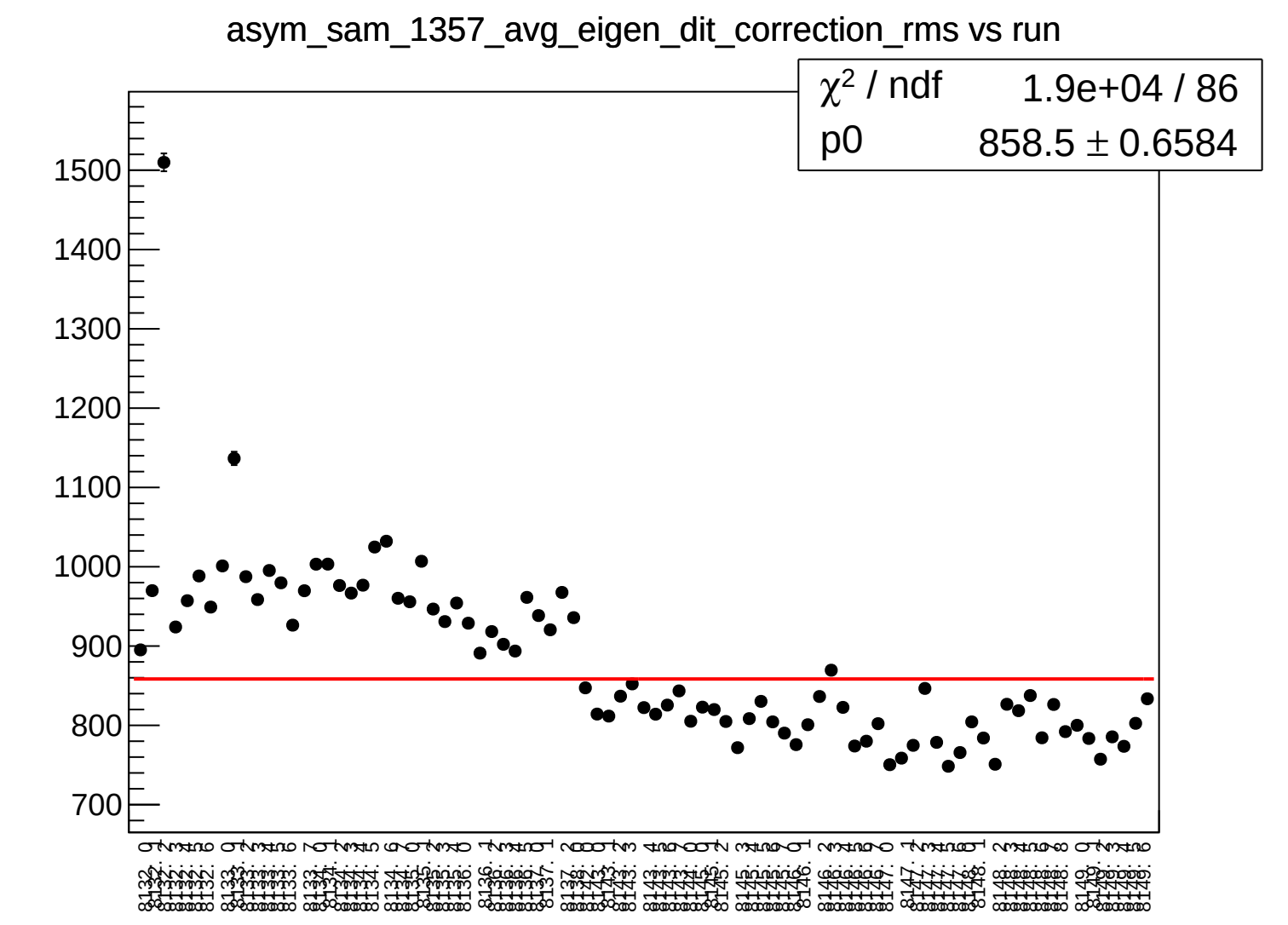

eigen_dit_asym_sam_1357_avg_mean vs run
χ² / ndf 80.85 / 86
p0 −97.89 ± 99.64
4000
2000
0
−2000
−4000
−6000
pull
Entries 87
Mean −122.2
Std Dev 0
3
2
1
0
−1
−2

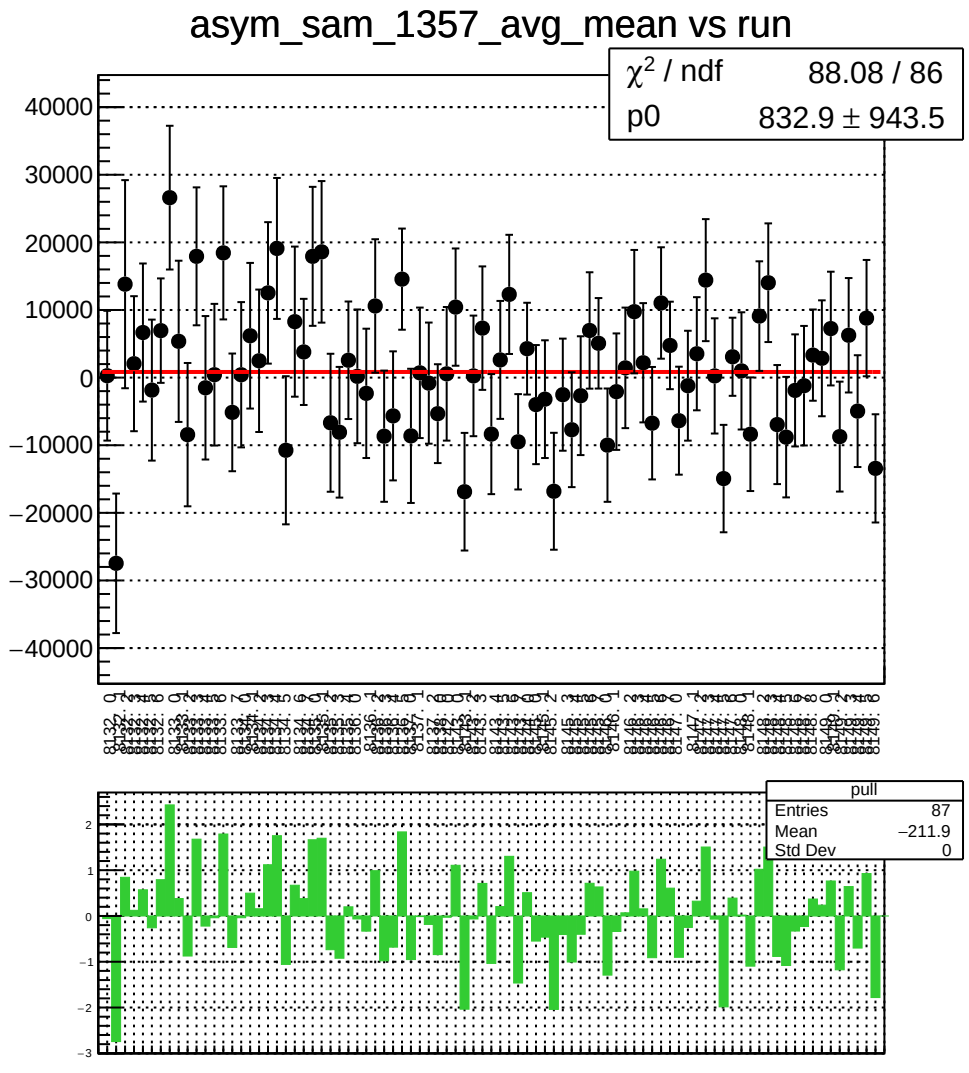

pull1D
Entries 87
Mean −0.01978
Std Dev 0.9638
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

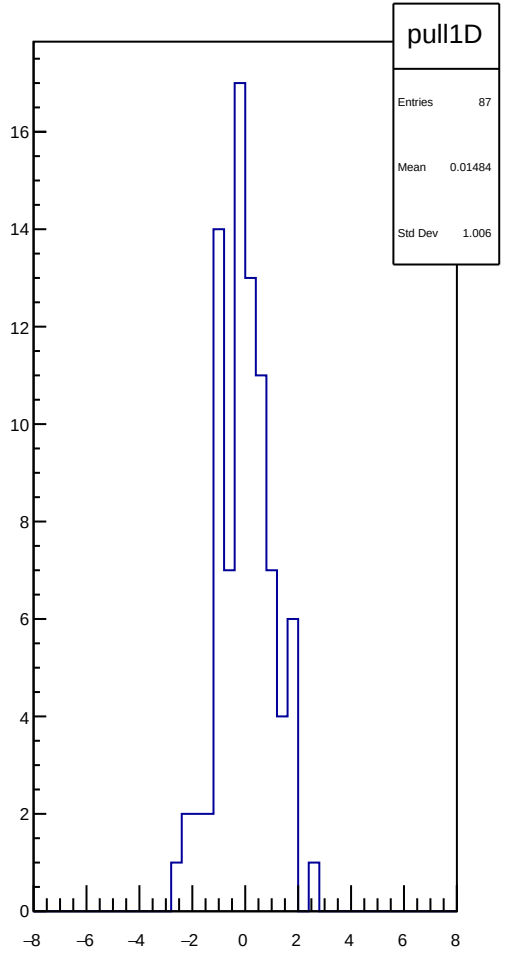

eigen_dit_asym_sam_1357_avg_rms vs run
χ^2 / ndf 5.191e+04 / 86
p0 90.96 ± 0.07045
400
350
300
250
200
150
100
50

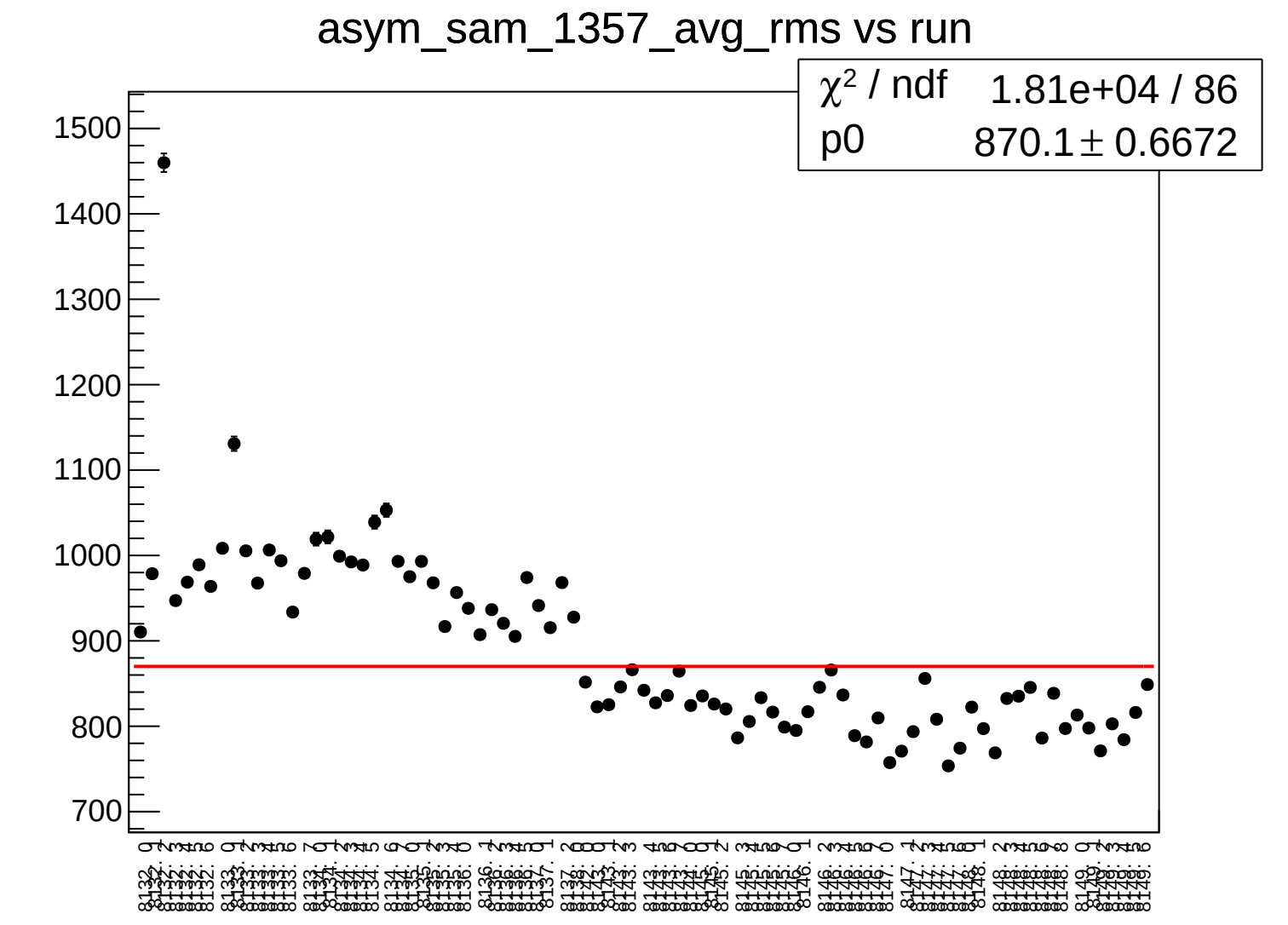

asym_sam_1357_avg_eigen_dit_correction_mean vs run
χ² / ndf 90.38 / 86
p0 −955.6 ± 931.2
pull
Entries 87
Mean −219.5
Std Dev 0

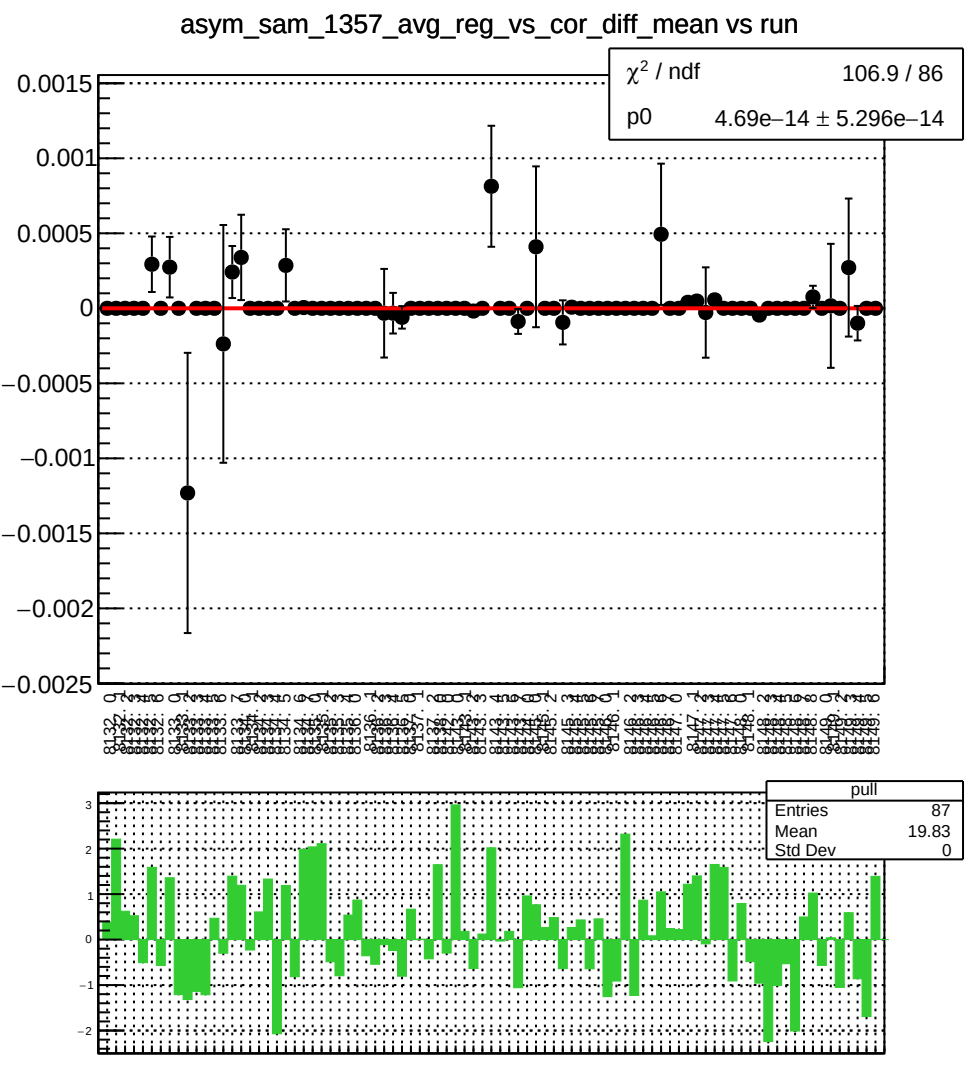

pull1D
Entries 87
Mean −0.0161
Std Dev 1.019

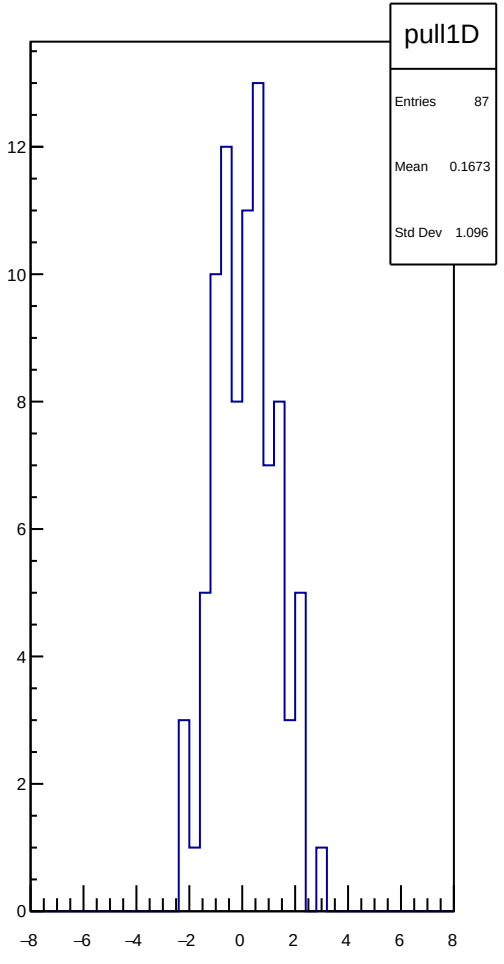

asym_sam_1357_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.9e+04 / 86
p0 858.5 ± 0.6584
1500
1400
1300
1200
1100
1000
900
800
700

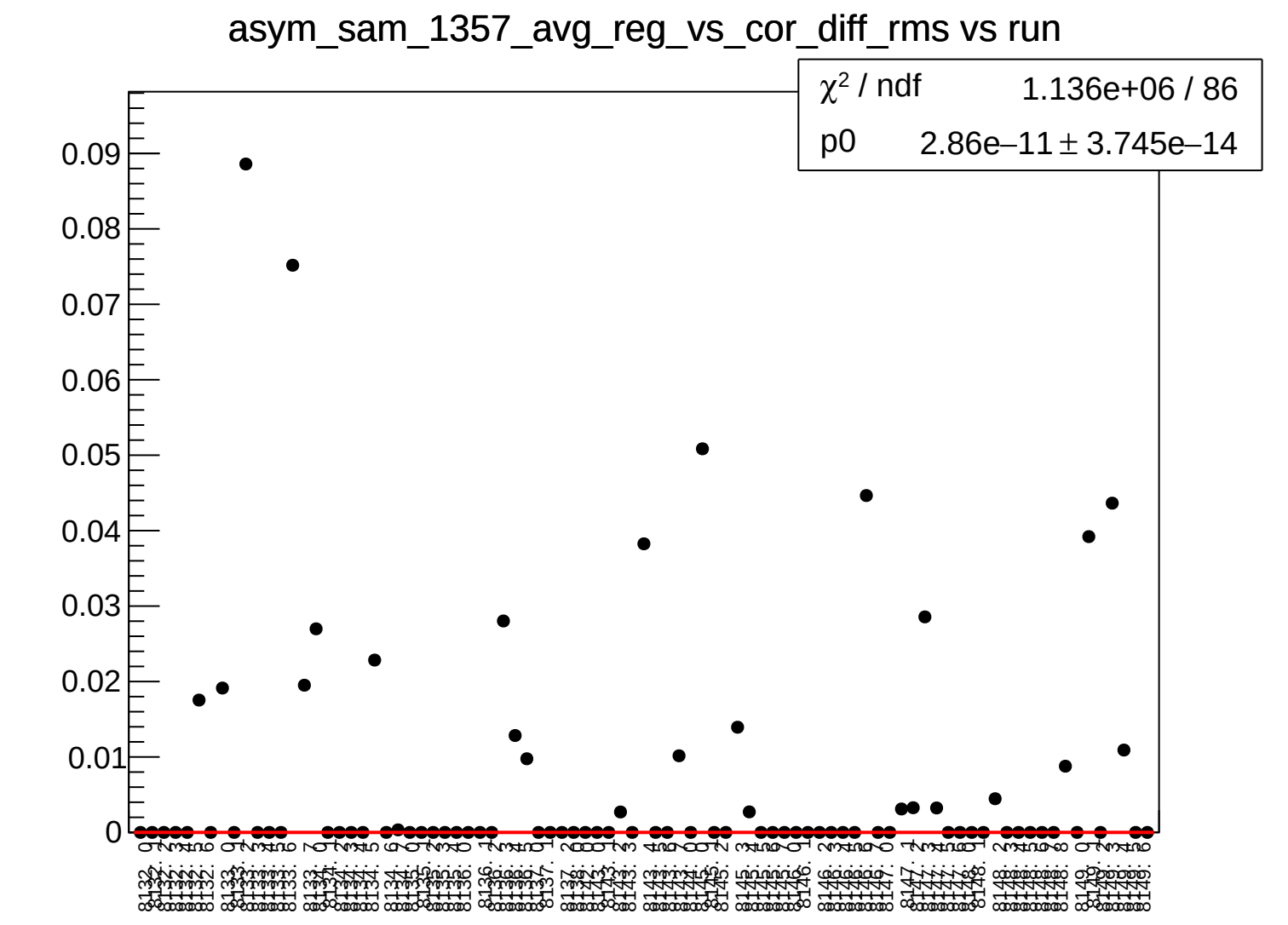

asym_sam_1357_avg_mean vs run
χ² / ndf 88.08 / 86
p0 832.9 ± 943.5
pull
Entries 87
Mean −211.9
Std Dev 0

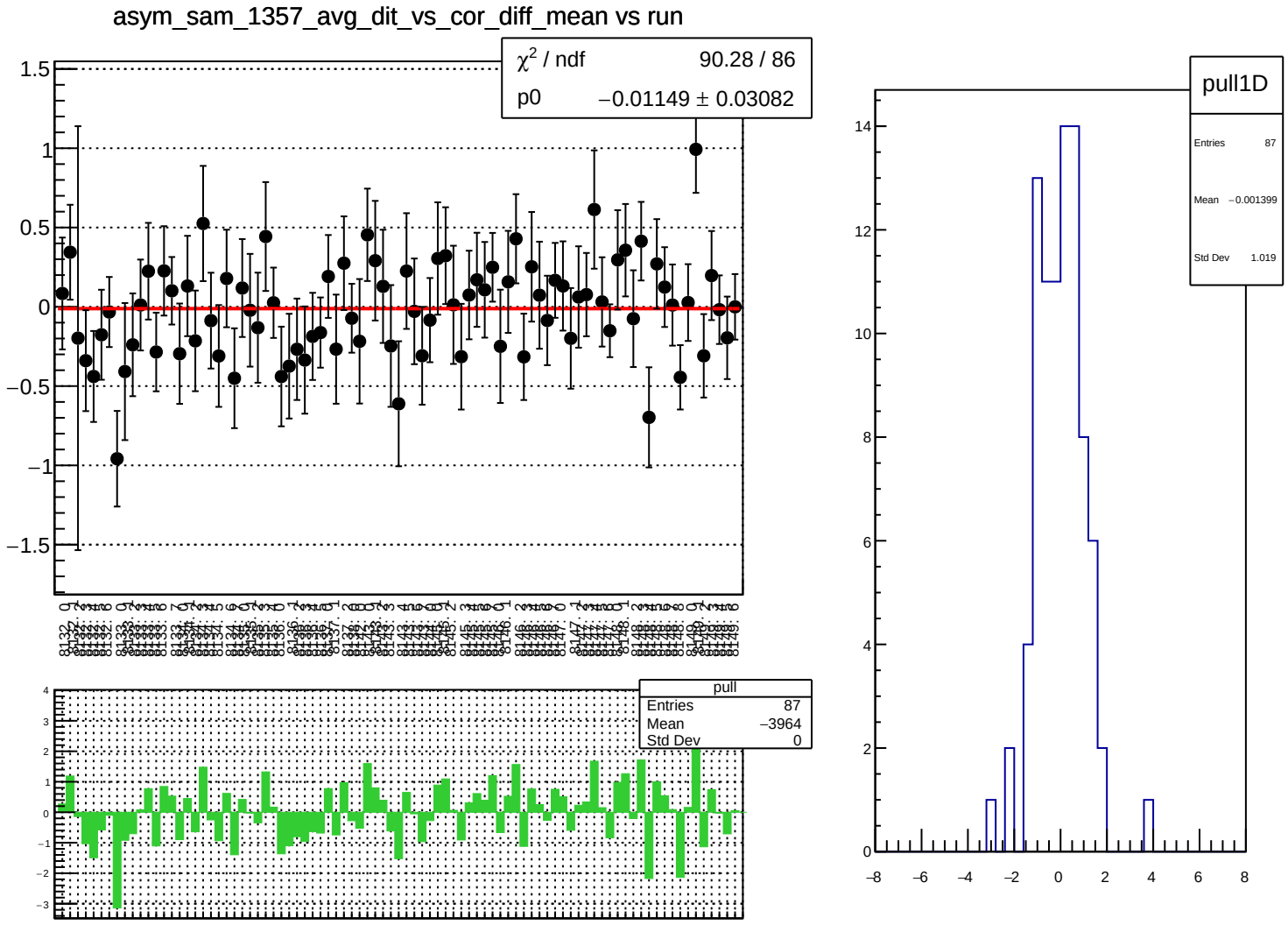

pull1D
Entries 87
Mean 0.01484
Std Dev 1.006

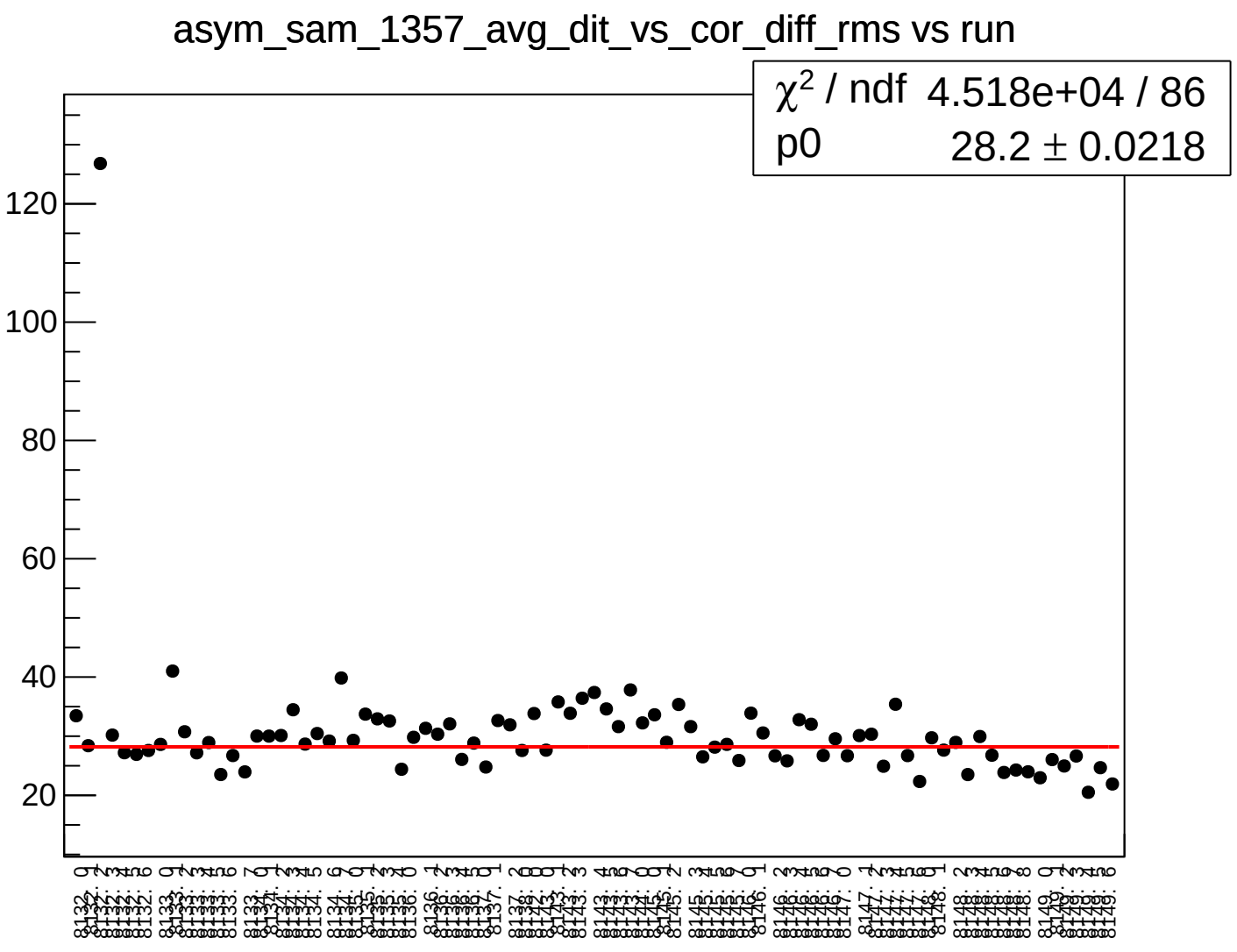

asym_sam_1357_avg_rms vs run
χ² / ndf 1.81e+04 / 86
p0 870.1 ± 0.6672
1500
1400
1300
1200
1100
1000
900
800
700

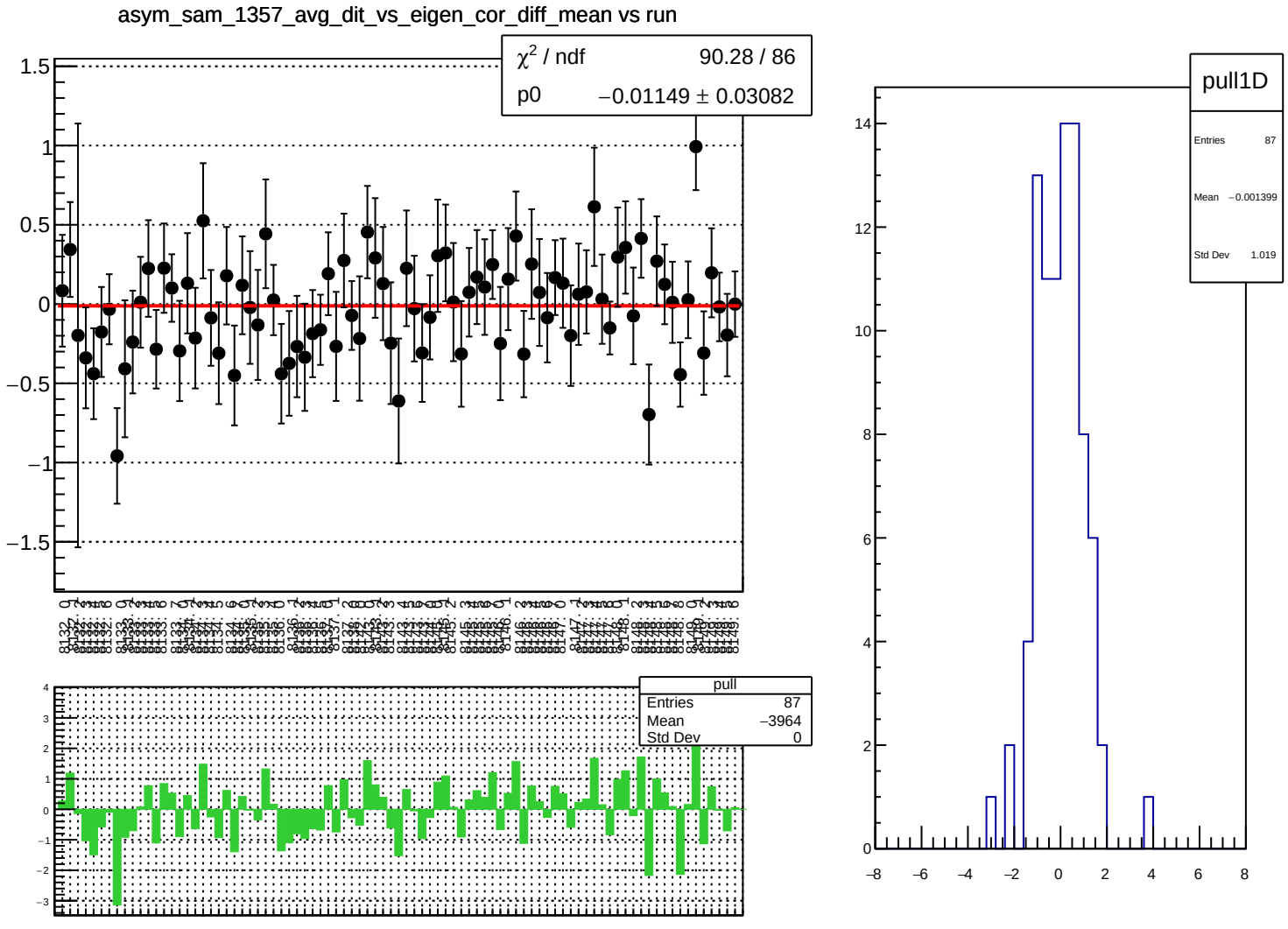

asym_sam_1357_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 106.9 / 86
p0 4.69e−14 ± 5.296e−14
pull
Entries 87
Mean 19.83
Std Dev 0

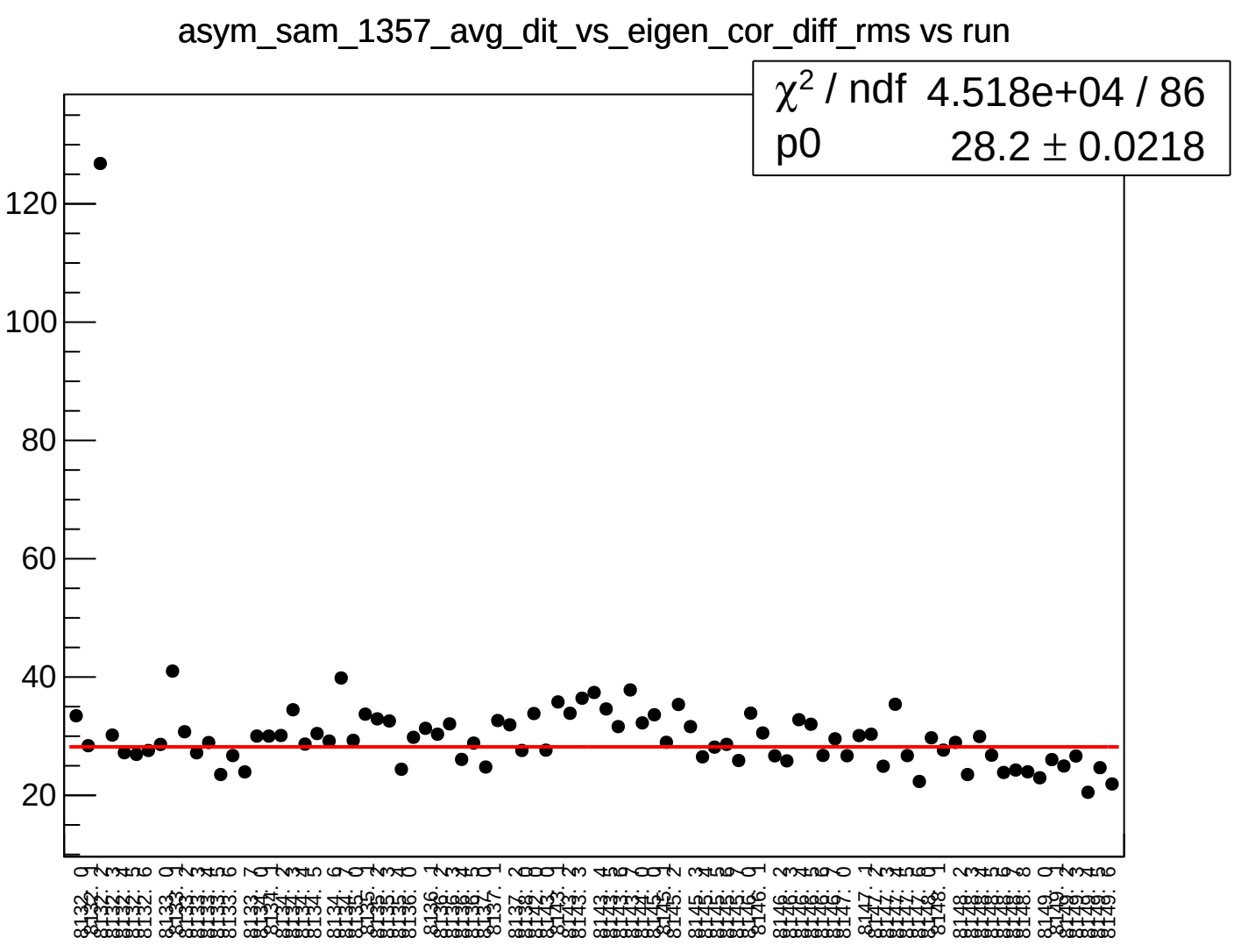

pull1D
Entries 87
Mean 0.1673
Std Dev 1.096

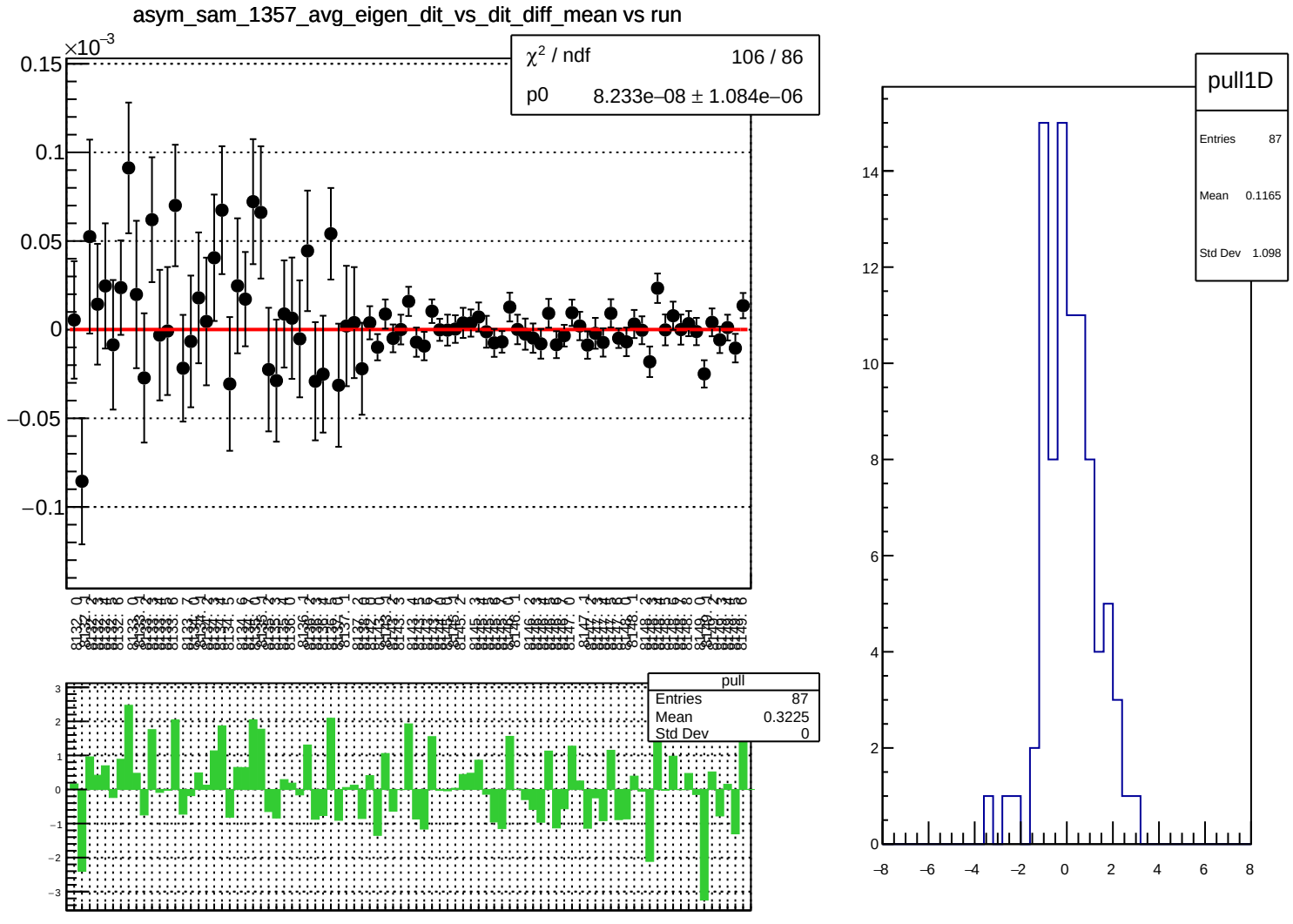

asym_sam_1357_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.136e+06 / 86
p0 2.86e−11 ± 3.745e−14
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

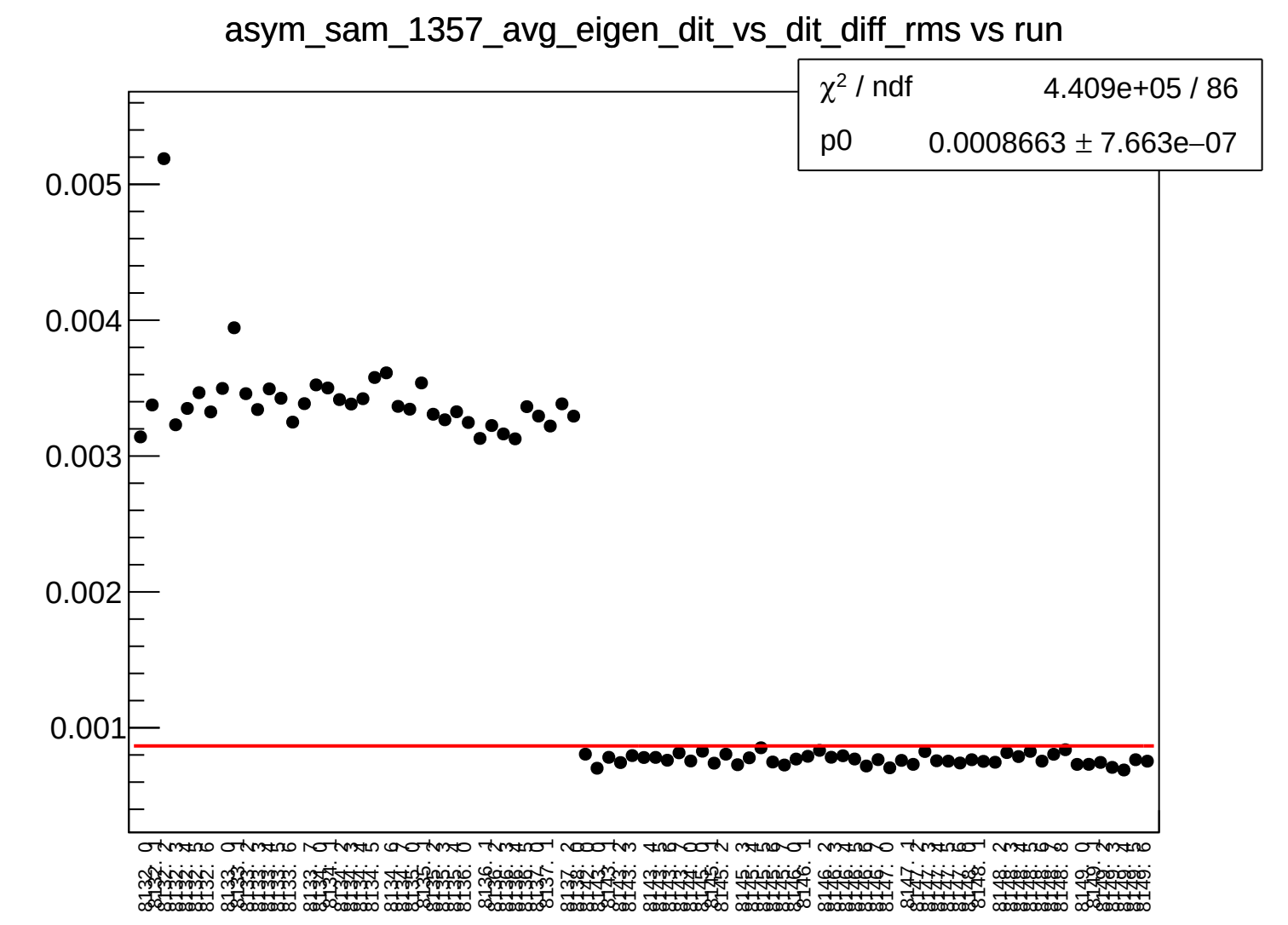

asym_sam_1357_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 90.28 / 86
p0 −0.01149 ± 0.03082
pull
Entries 87
Mean −3964
Std Dev 0
pull1D
Entries 87
Mean −0.001399
Std Dev 1.019

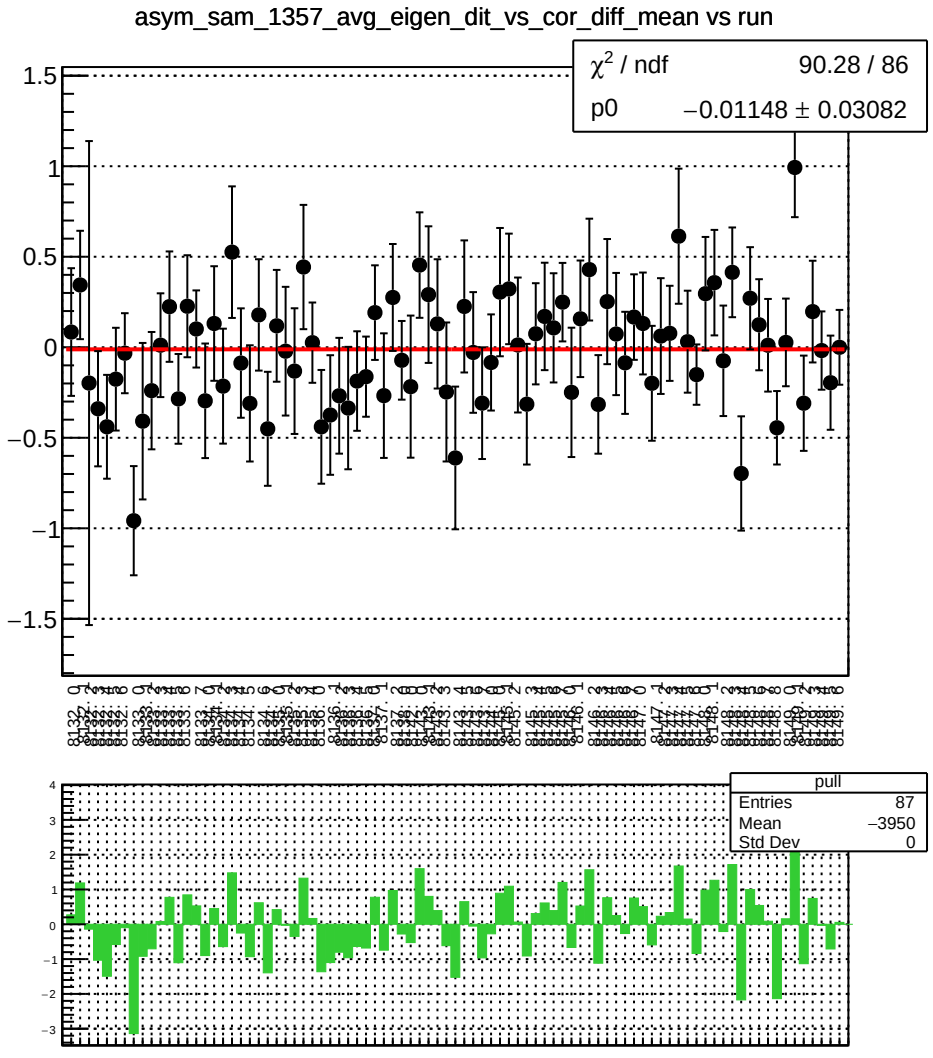

asym_sam_1357_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.518e+04 / 86
p0 28.2 ± 0.0218
120
100
80
60
40
20

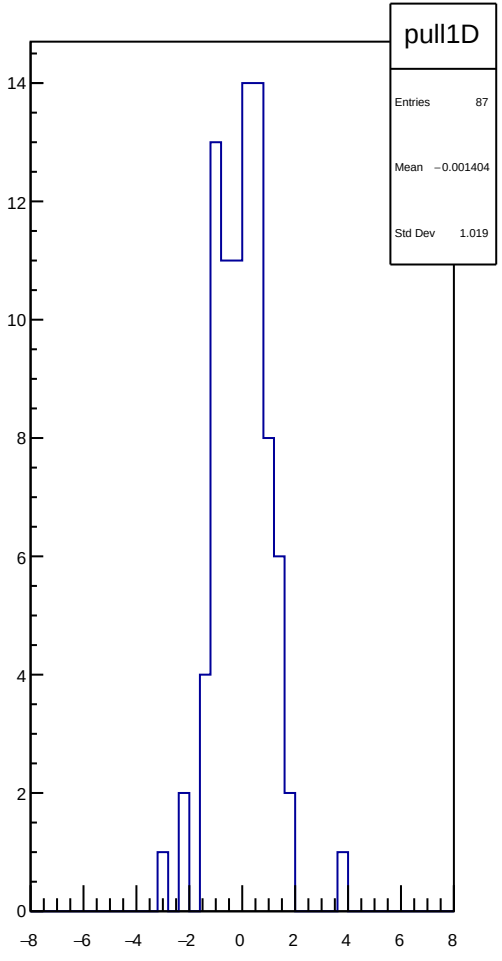

asym_sam_1357_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.28 / 86
p0 −0.01149 ± 0.03082
pull
Entries 87
Mean −3964
Std Dev 0
pull1D
Entries 87
Mean −0.001399
Std Dev 1.019

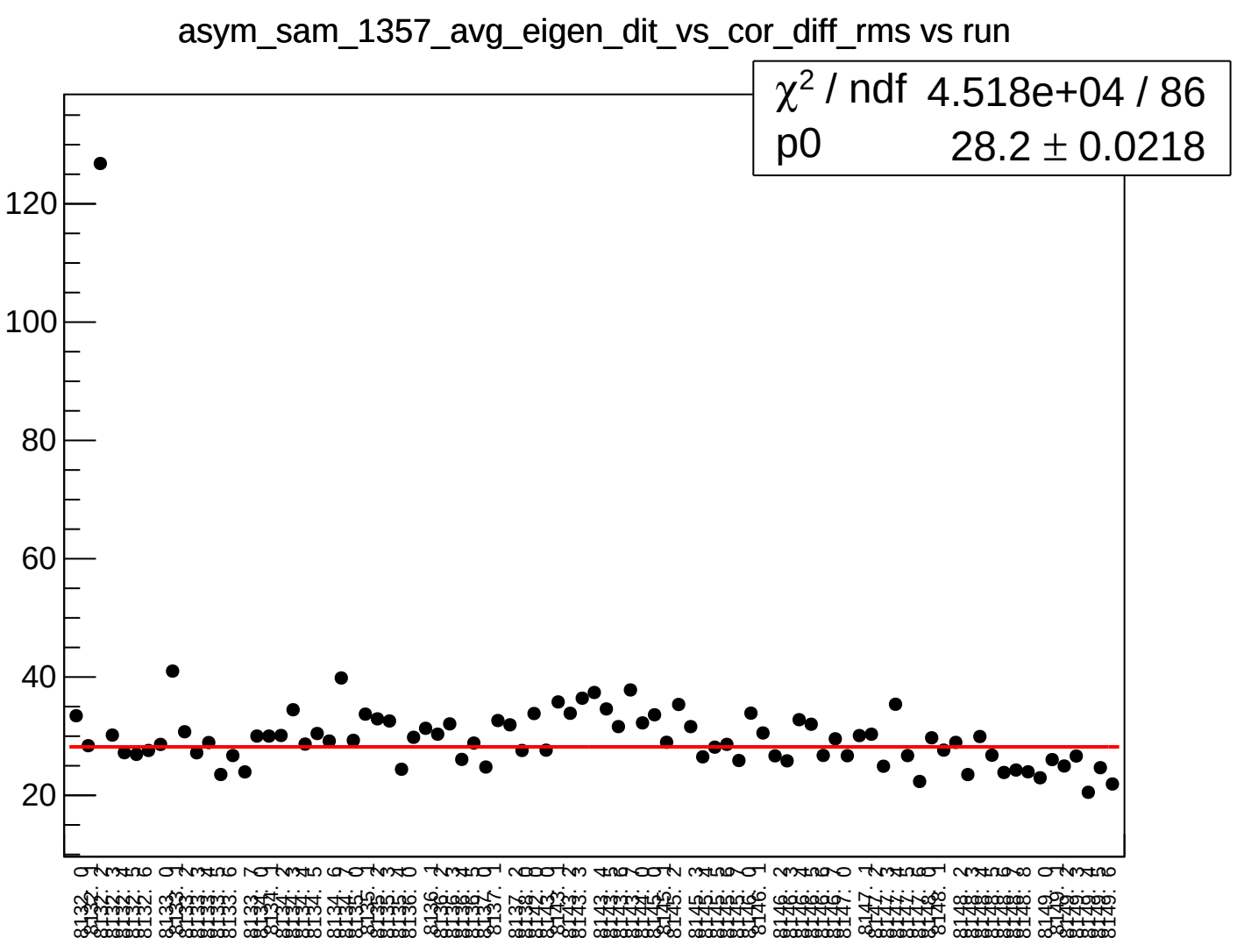

asym_sam_1357_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.518e+04 / 86
p0 28.2 ± 0.0218
120
100
80
60
40
20

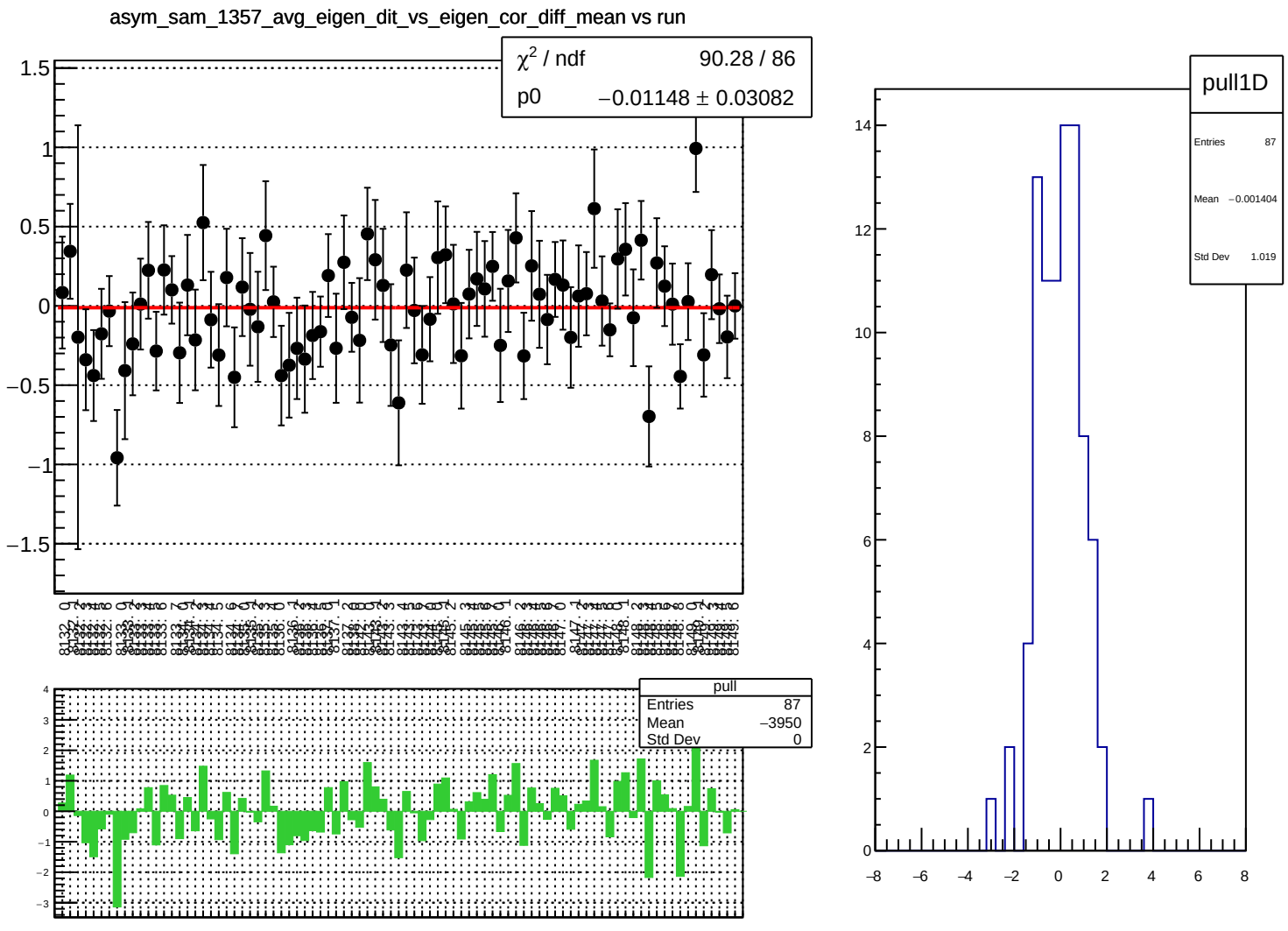

asym_sam_1357_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 106 / 86
p0 8.233e−08 ± 1.084e−06
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 87
Mean 0.3225
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean 0.1165
Std Dev 1.098
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

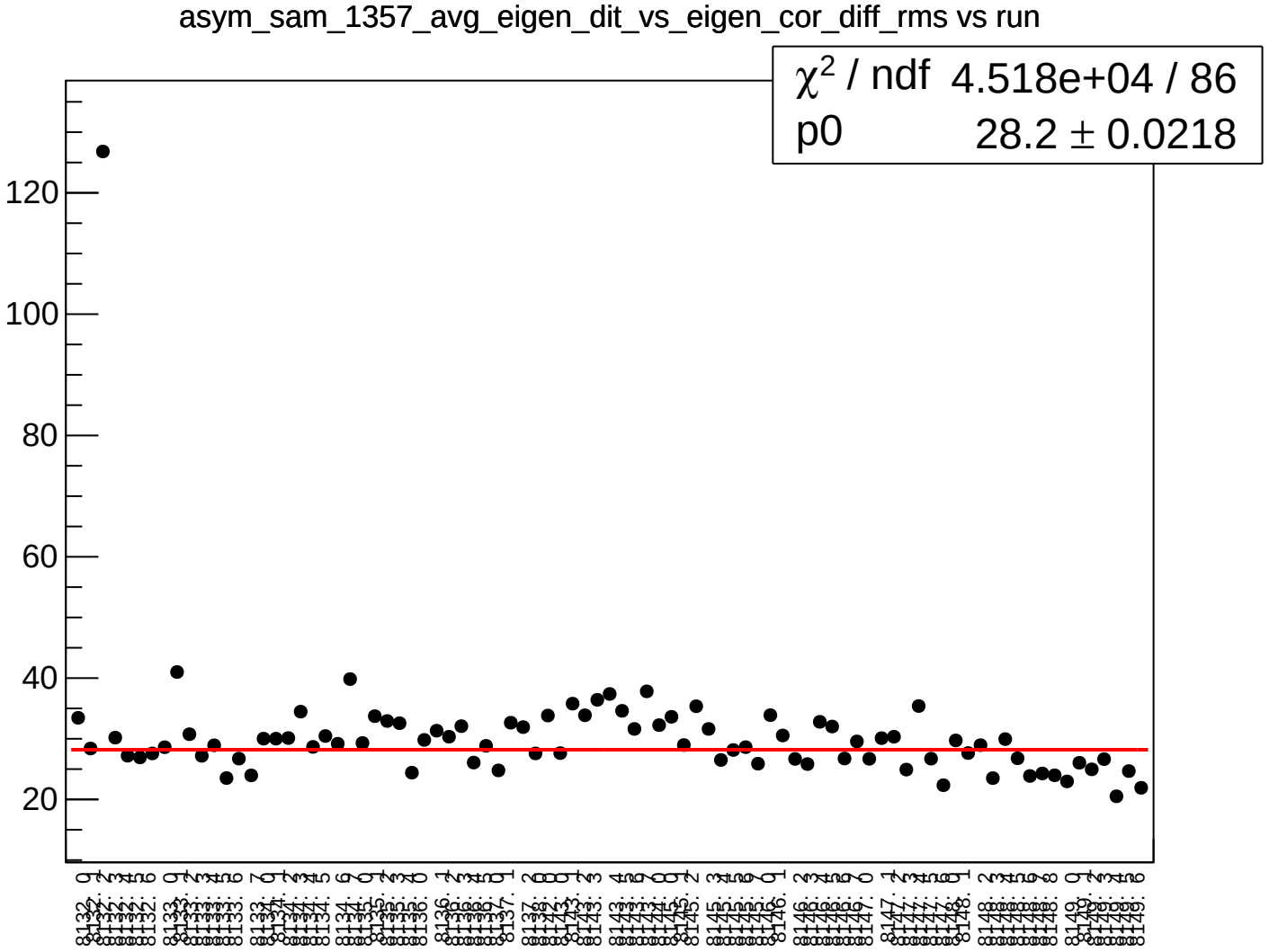

asym_sam_1357_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.409e+05 / 86
p0 0.0008663 ± 7.663e−07
0.005
0.004
0.003
0.002
0.001

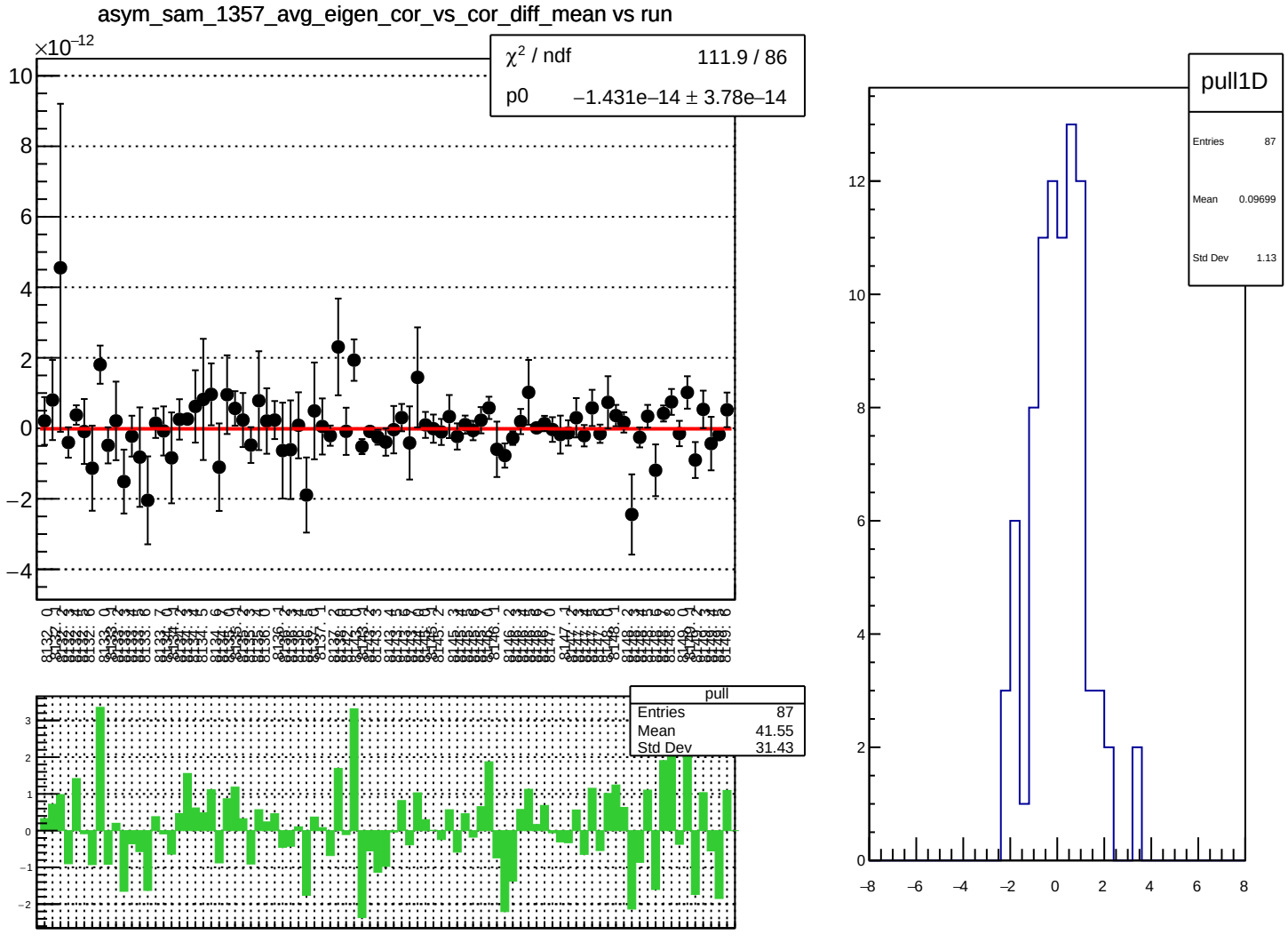

asym_sam_1357_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.28 / 86
p0 −0.01148 ± 0.03082
pull
Entries 87
Mean −3950
Std Dev 0

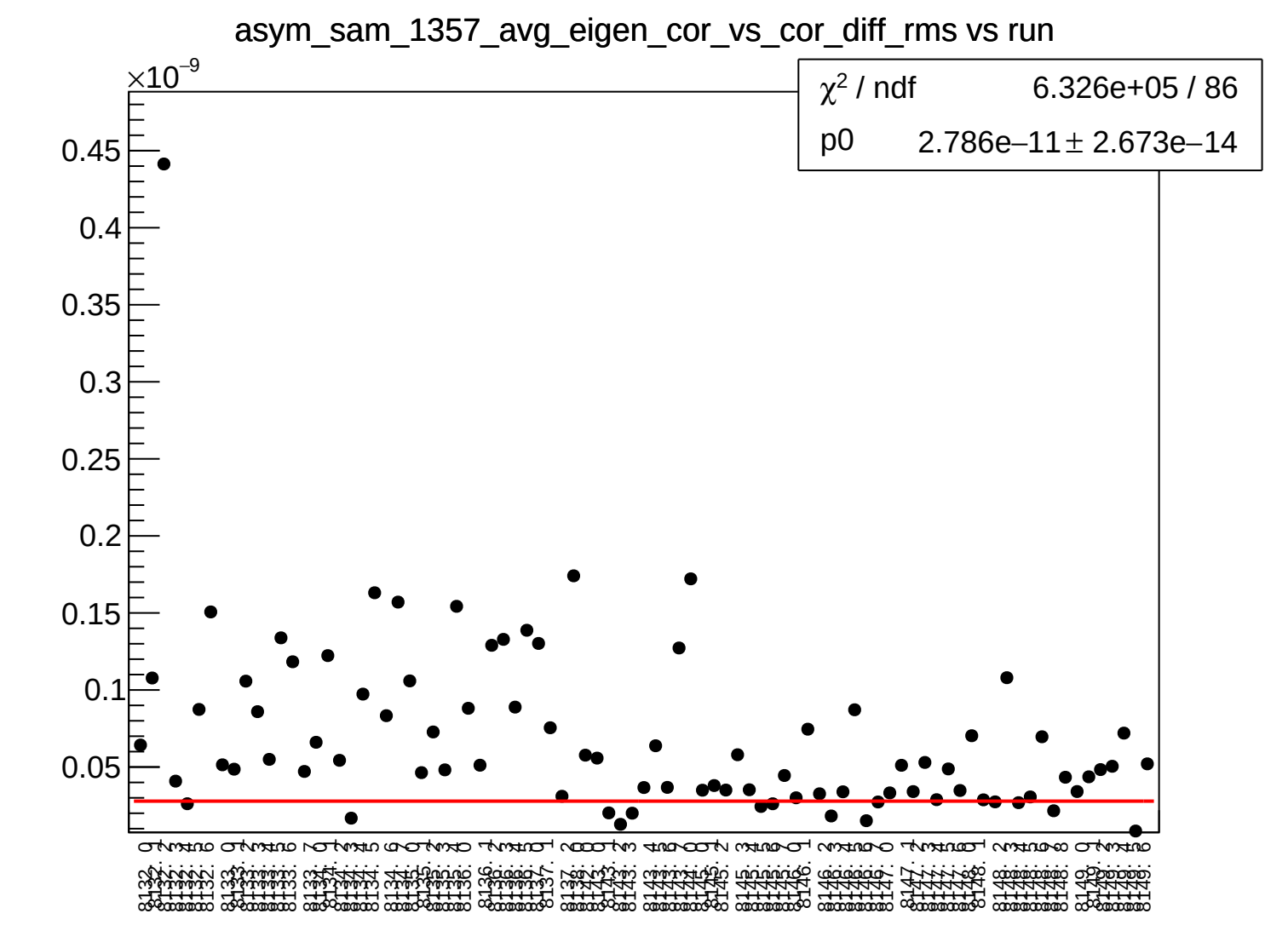

pull1D
Entries 87
Mean −0.001404
Std Dev 1.019

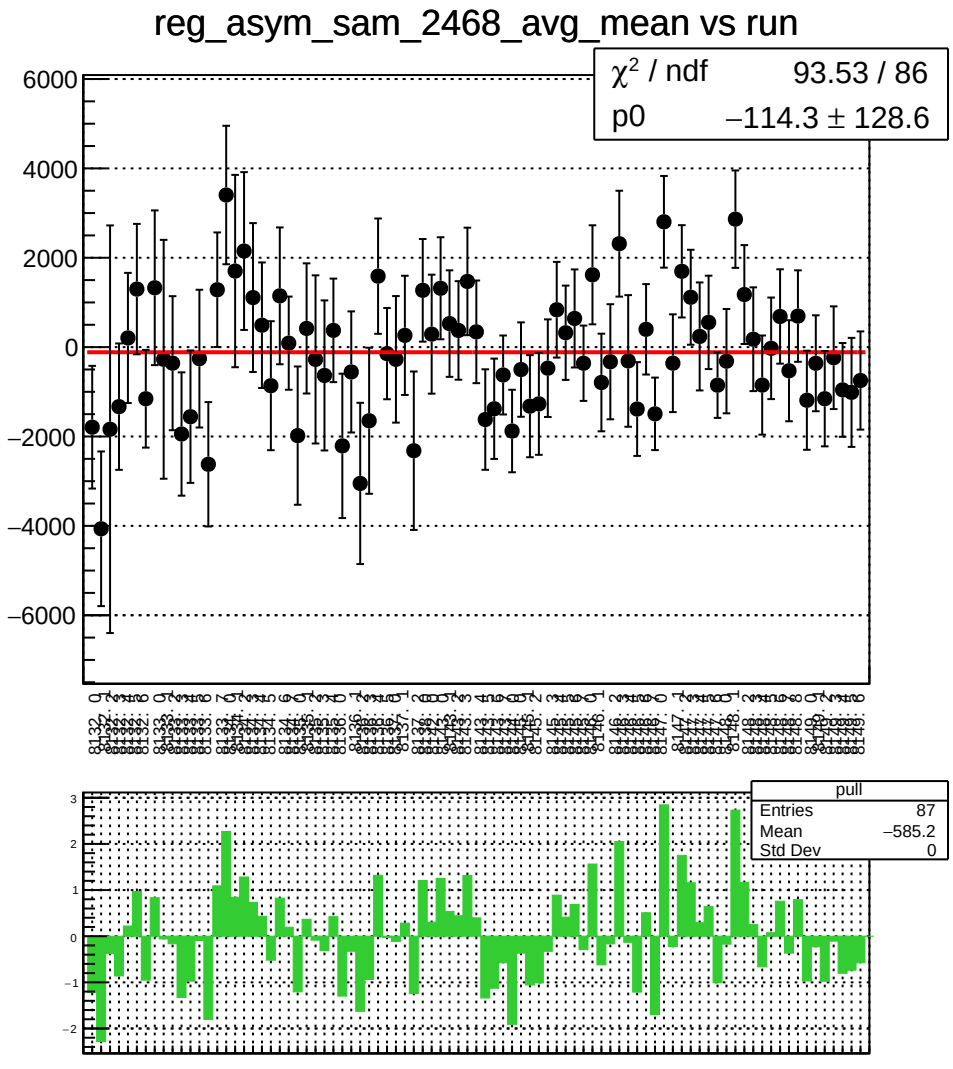

asym_sam_1357_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.518e+04 / 86
p0 28.2 ± 0.0218
120
100
80
60
40
20

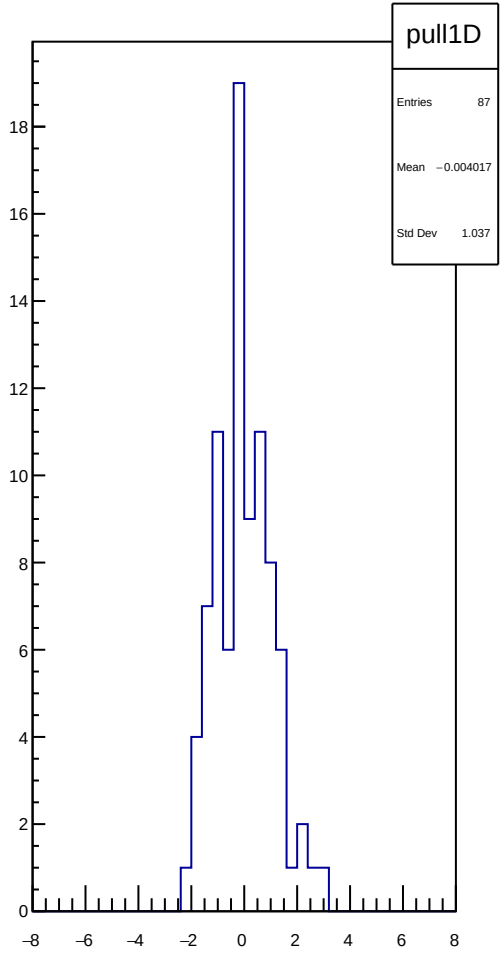

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.28 / 86
p0 −0.01148 ± 0.03082
pull
Entries 87
Mean −3950
Std Dev 0
pull1D
Entries 87
Mean −0.001404
Std Dev 1.019

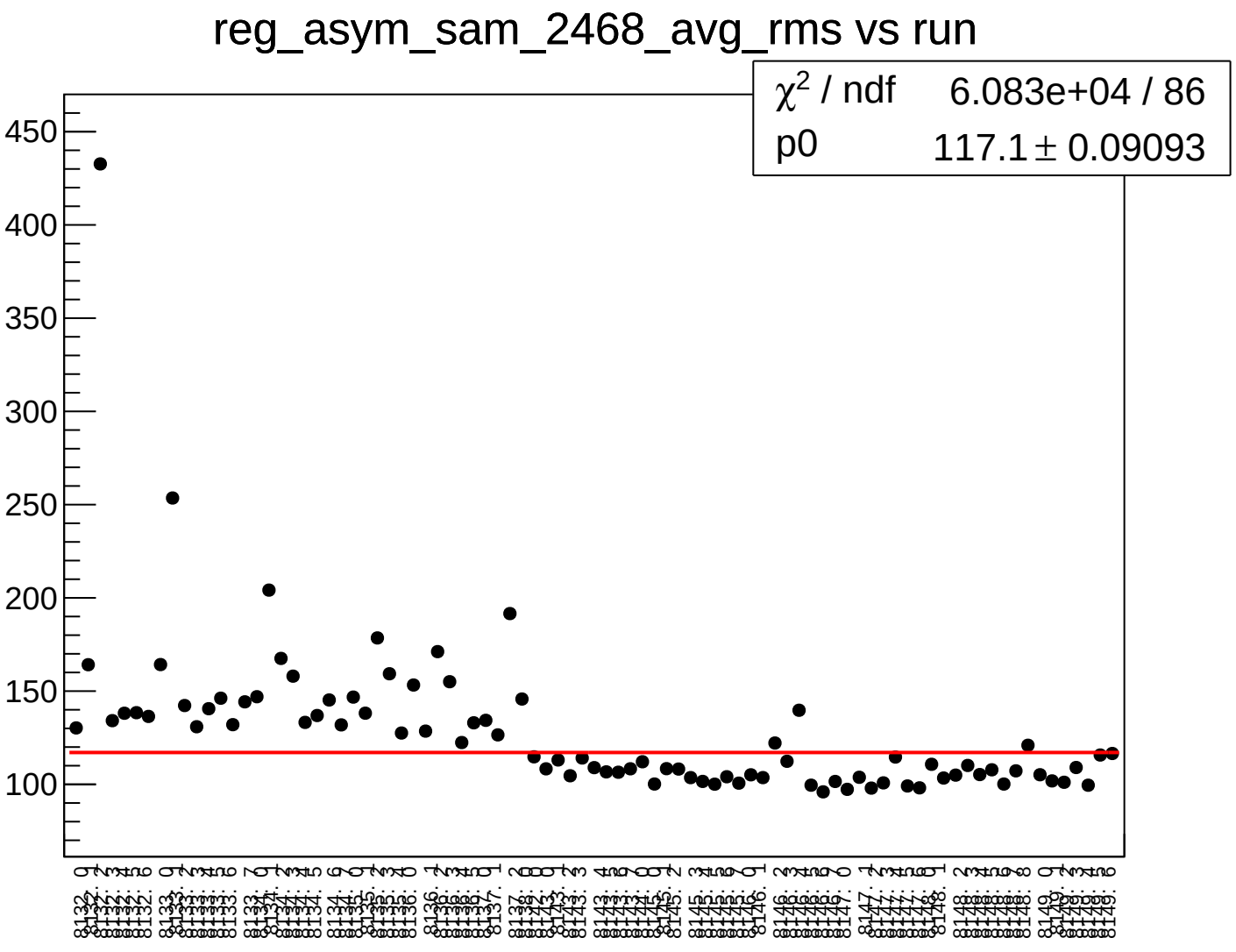

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.518e+04 / 86
p0 28.2 ± 0.0218
120
100
80
60
40
20

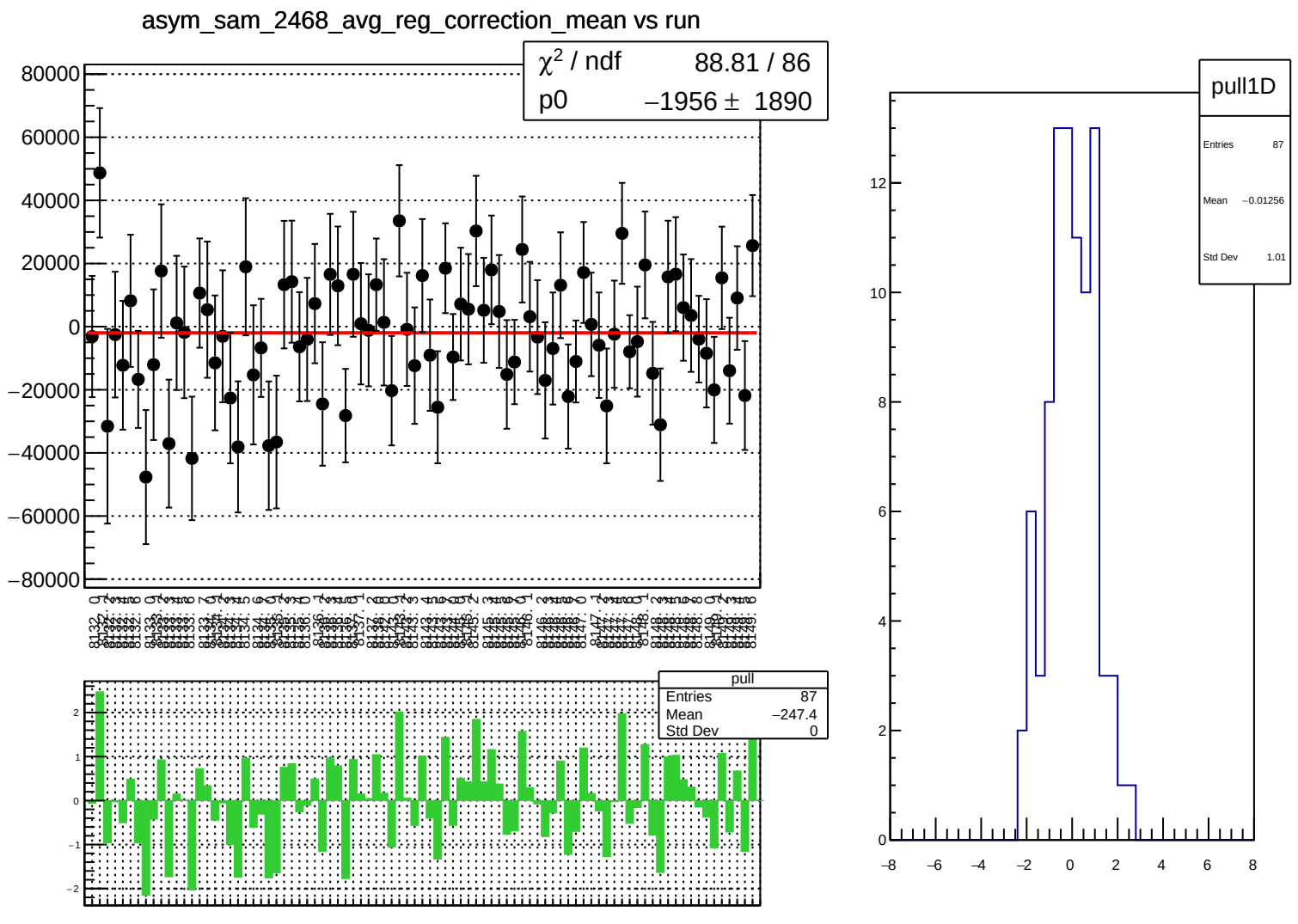

asym_sam_1357_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 111.9 / 86
p0 −1.431e−14 ± 3.78e−14
pull
Entries 87
Mean 41.55
Std Dev 31.43
pull1D
Entries 87
Mean 0.09699
Std Dev 1.13

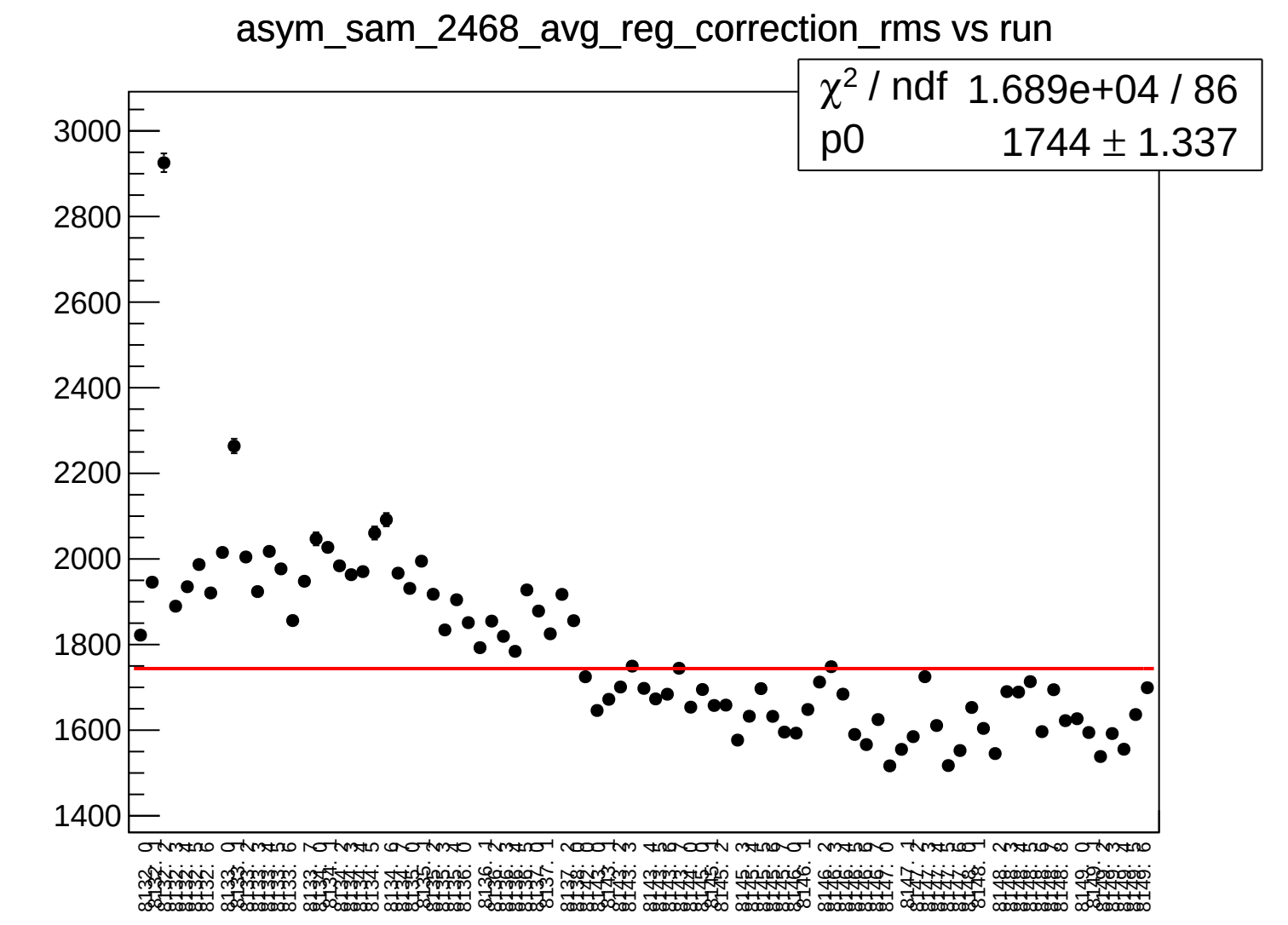

asym_sam_1357_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.326e+05 / 86
p0 2.786e−11 ± 2.673e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

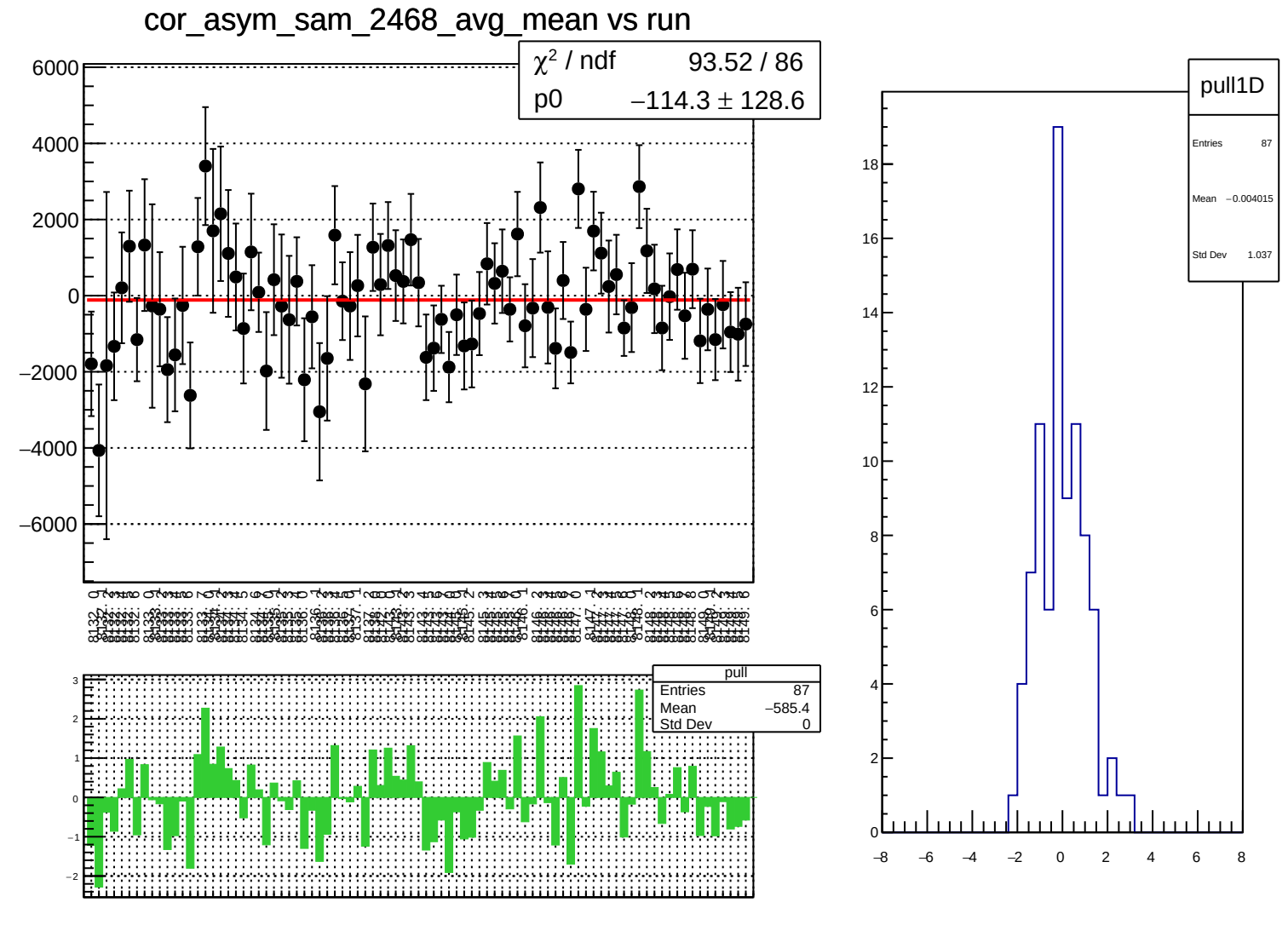

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 93.53 / 86
p0 −114.3 ± 128.6
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 87
Mean −585.2
Std Dev 0
3
2
1
0
−1
−2

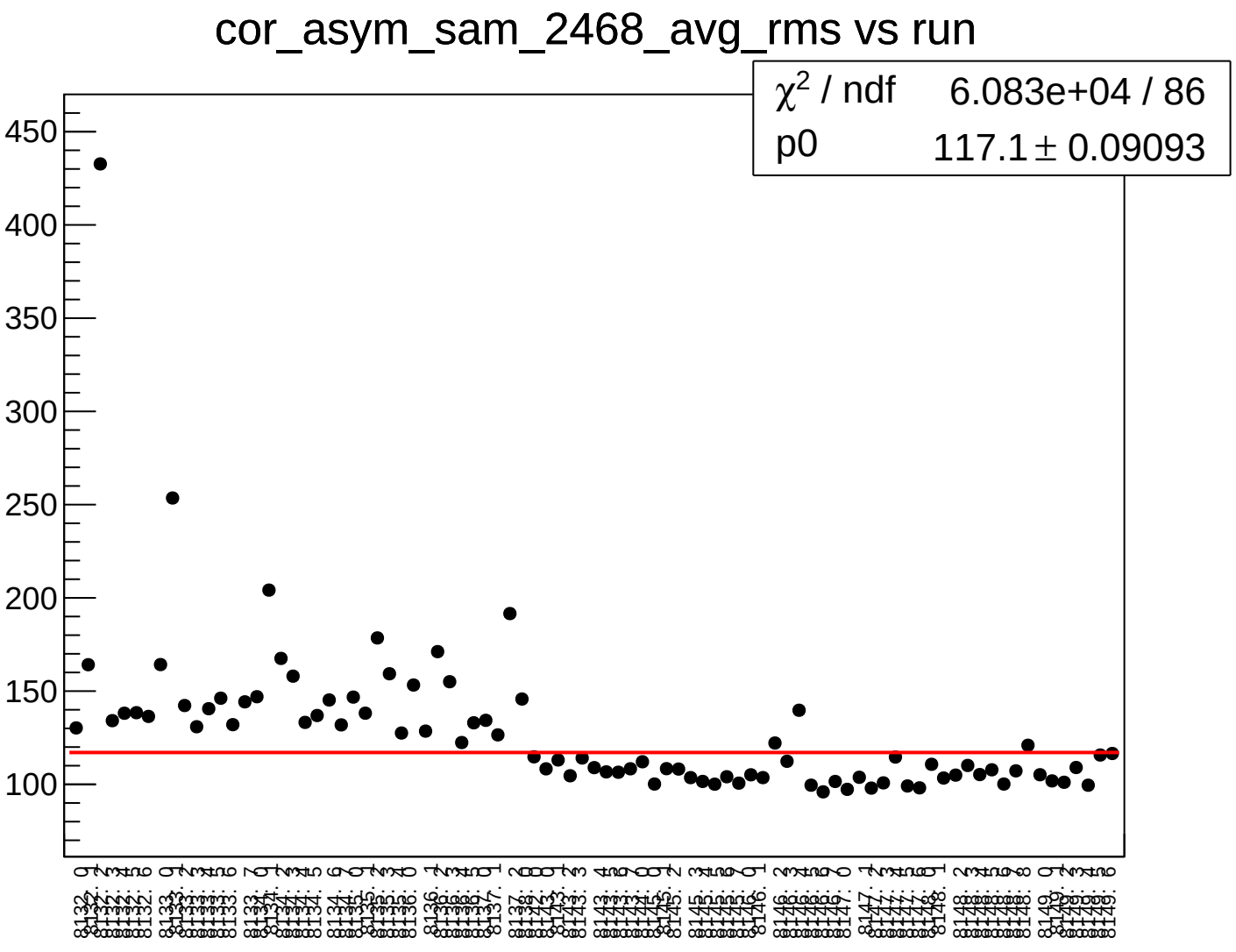

pull1D
Entries 87
Mean −0.004017
Std Dev 1.037
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

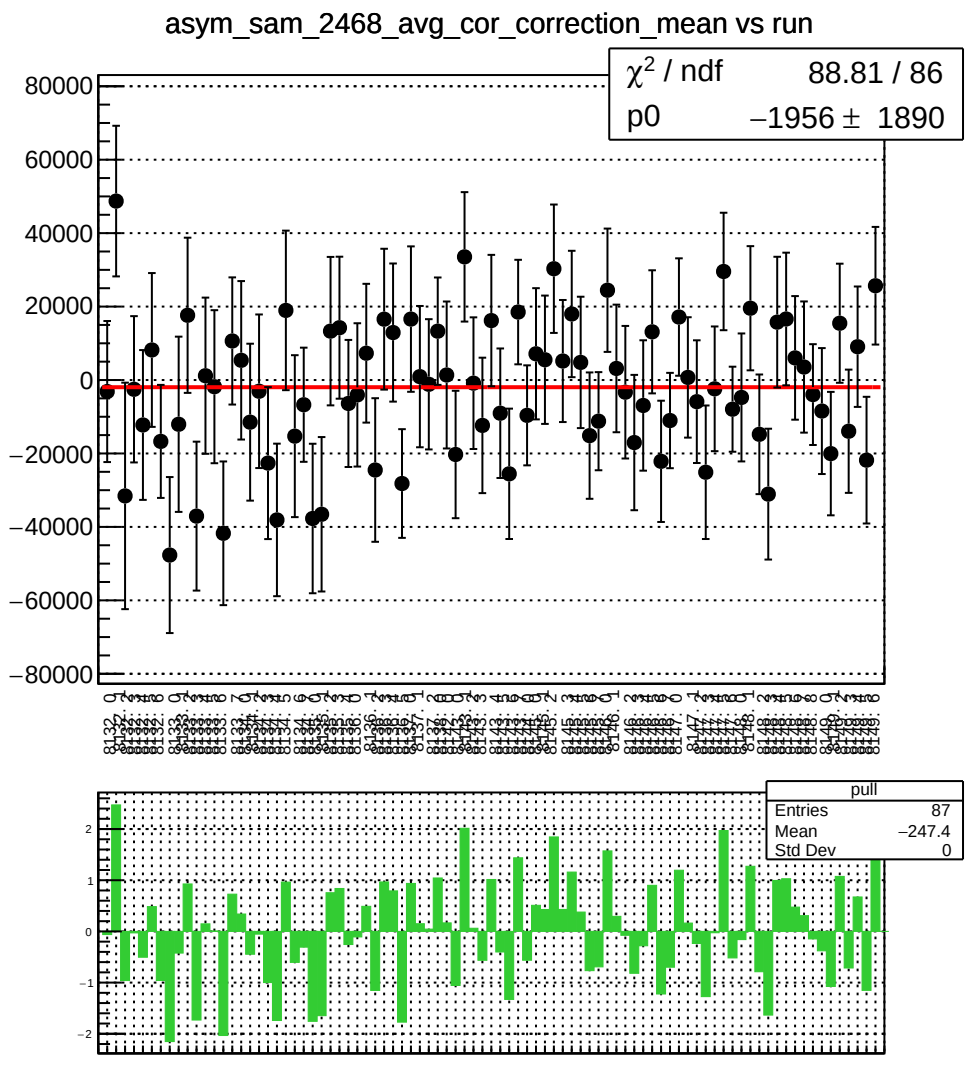

reg_asym_sam_2468_avg_rms vs run
χ^2 / ndf 6.083e+04 / 86
p0 117.1 ± 0.09093
450
400
350
300
250
200
150
100

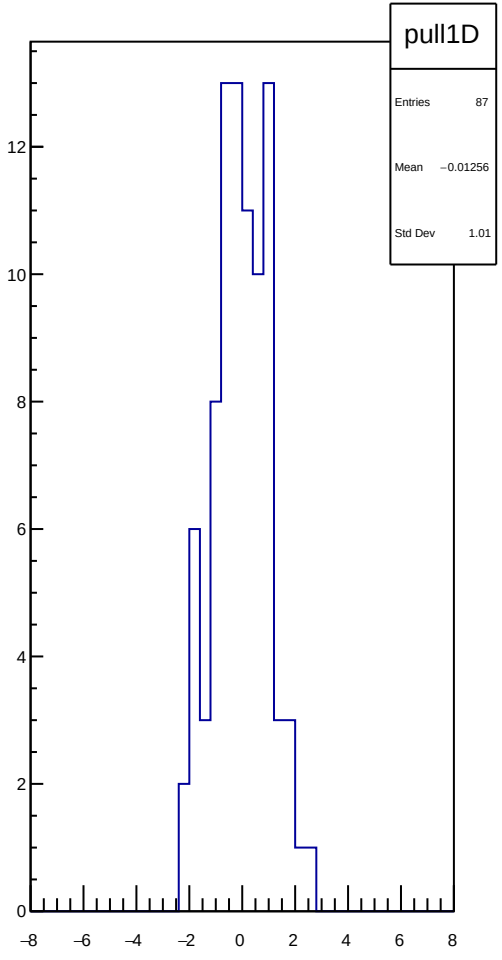

asym_sam_2468_avg_reg_correction_mean vs run
χ² / ndf 88.81 / 86
p0 −1956 ± 1890
pull
Entries 87
Mean −247.4
Std Dev 0
pull1D
Entries 87
Mean −0.01256
Std Dev 1.01

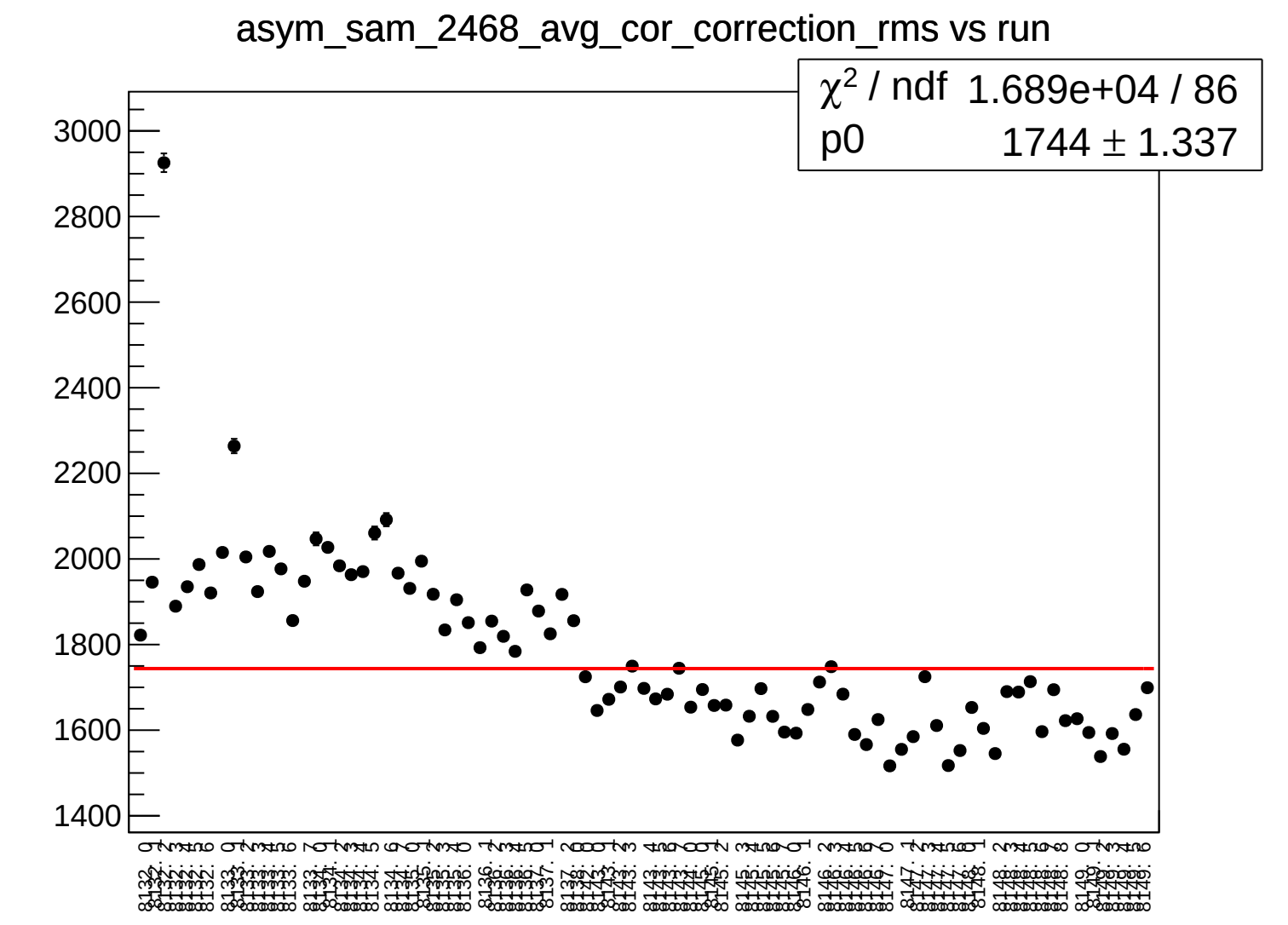

asym_sam_2468_avg_reg_correction_rms vs run
χ² / ndf 1.689e+04 / 86
p0 1744 ± 1.337
3000
2800
2600
2400
2200
2000
1800
1600
1400

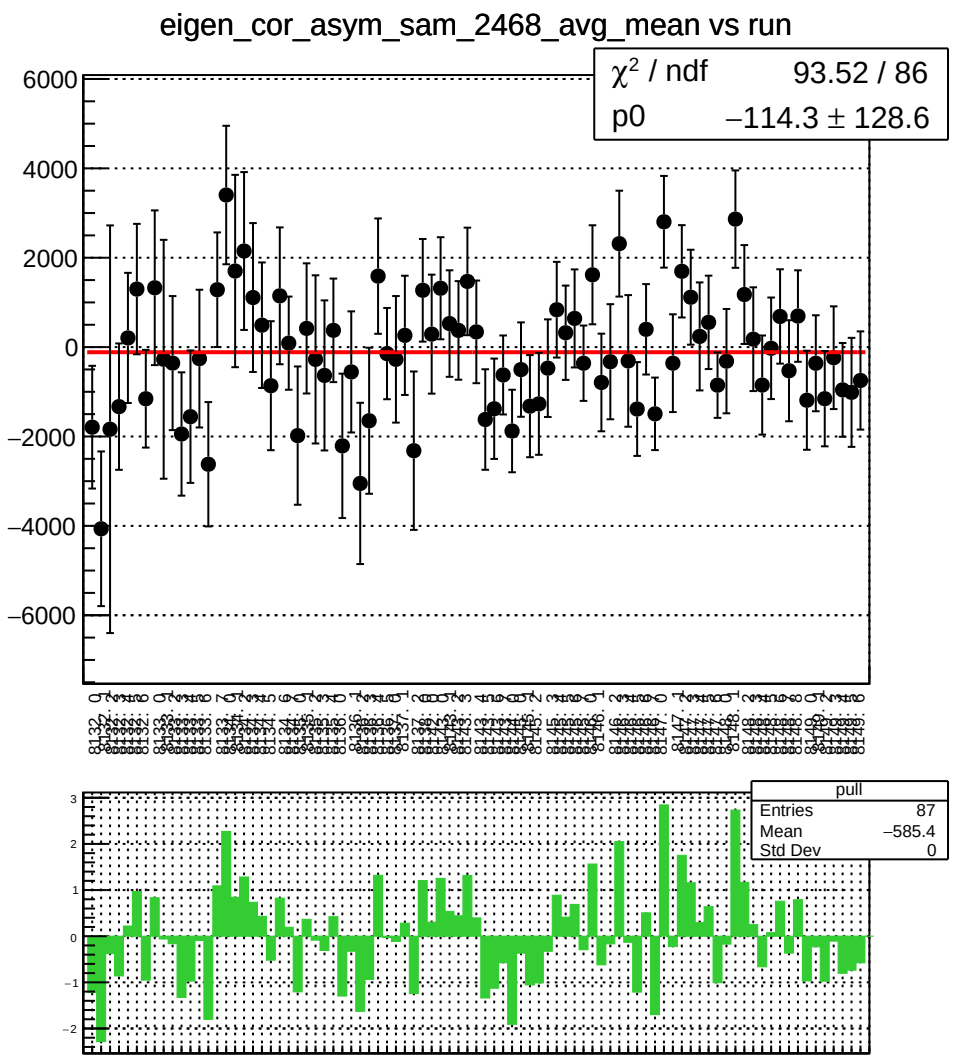

cor_asym_sam_2468_avg_mean vs run
χ² / ndf 93.52 / 86
p0 −114.3 ± 128.6
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 87
Mean −585.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.004015
Std Dev 1.037
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

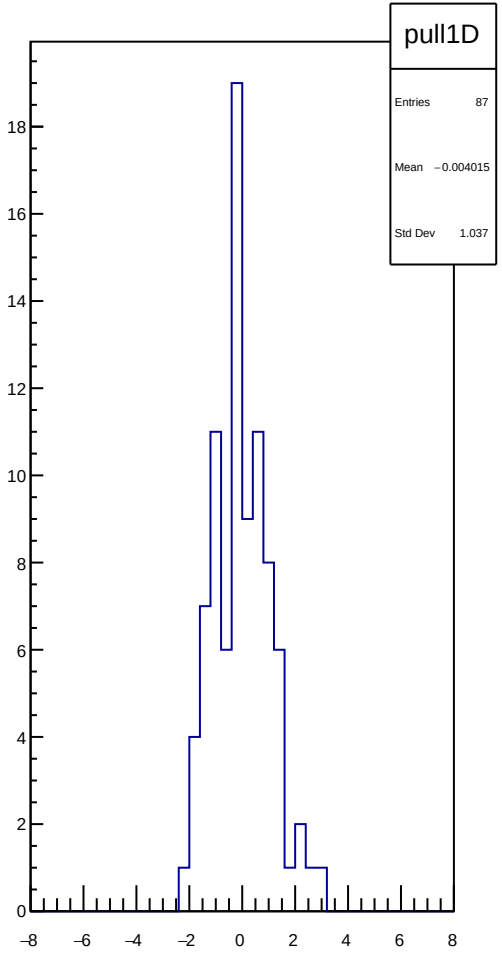

cor_asym_sam_2468_avg_rms vs run
χ^2 / ndf 6.083e+04 / 86
p0 117.1 ± 0.09093
450
400
350
300
250
200
150
100

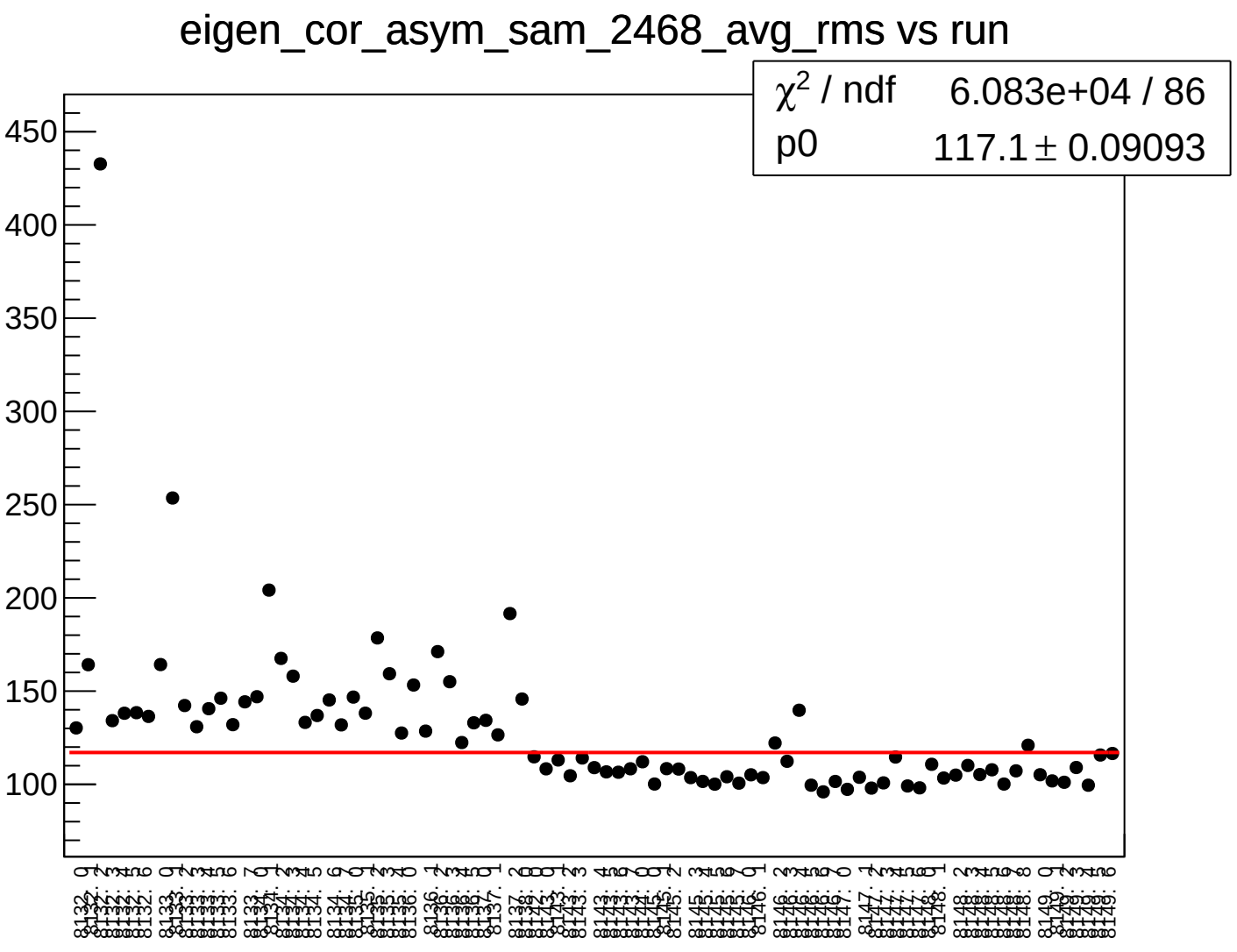

asym_sam_2468_avg_cor_correction_mean vs run
χ² / ndf 88.81 / 86
p0 −1956 ± 1890
pull
Entries 87
Mean −247.4
Std Dev 0

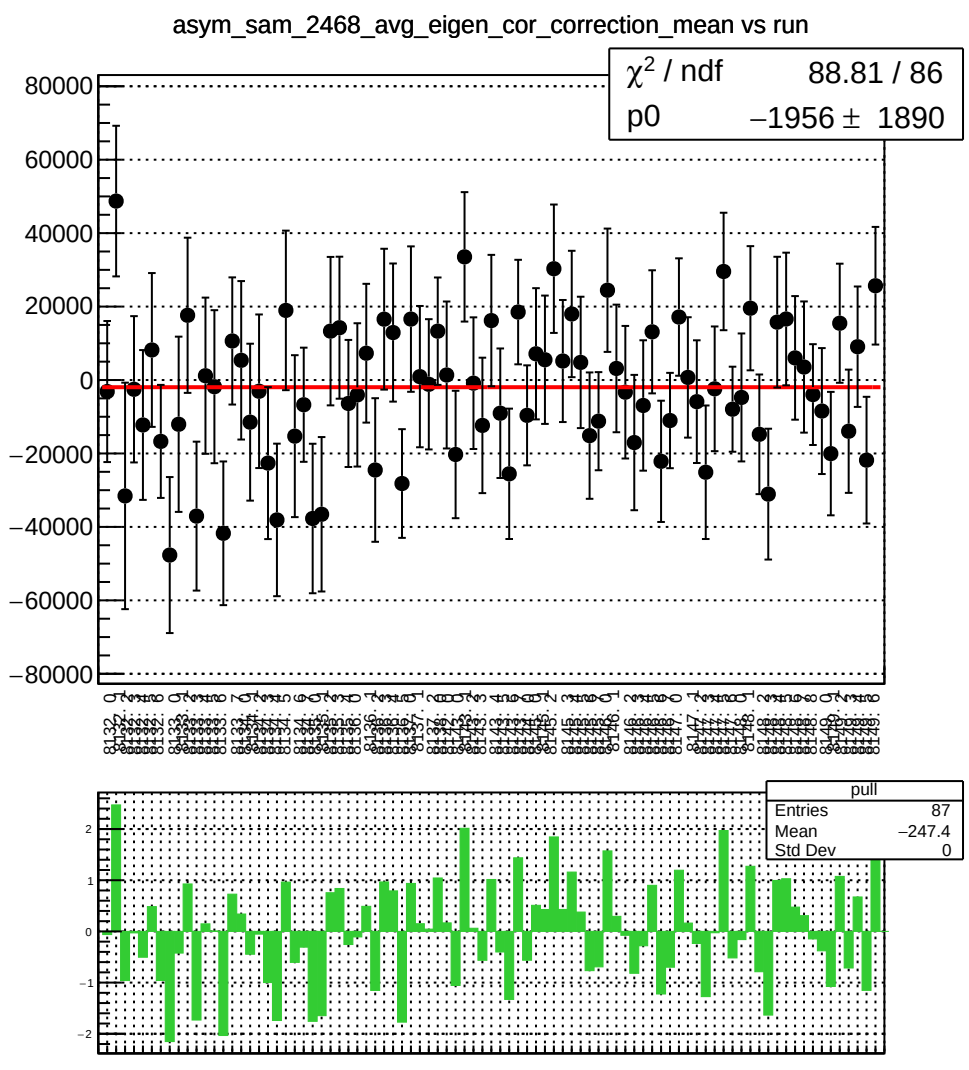

pull1D
Entries 87
Mean −0.01256
Std Dev 1.01

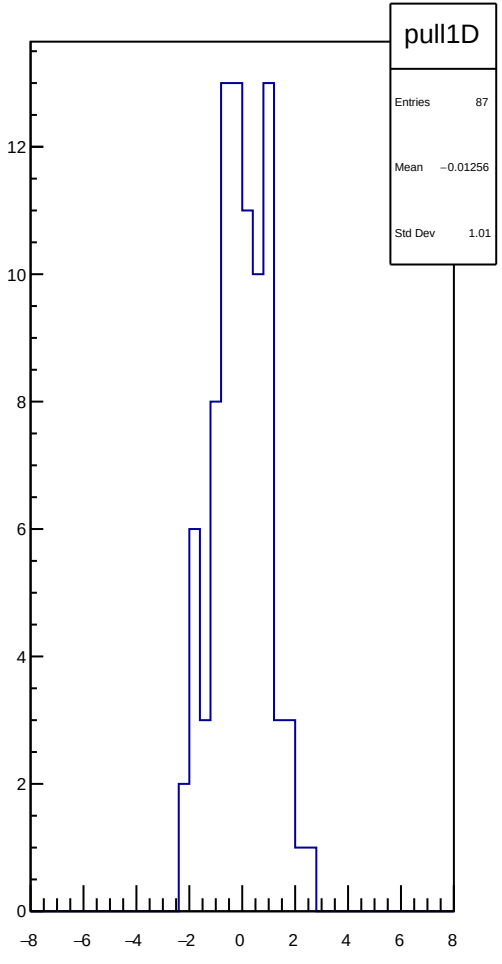

asym_sam_2468_avg_cor_correction_rms vs run
χ² / ndf 1.689e+04 / 86
p0 1744 ± 1.337
3000
2800
2600
2400
2200
2000
1800
1600
1400

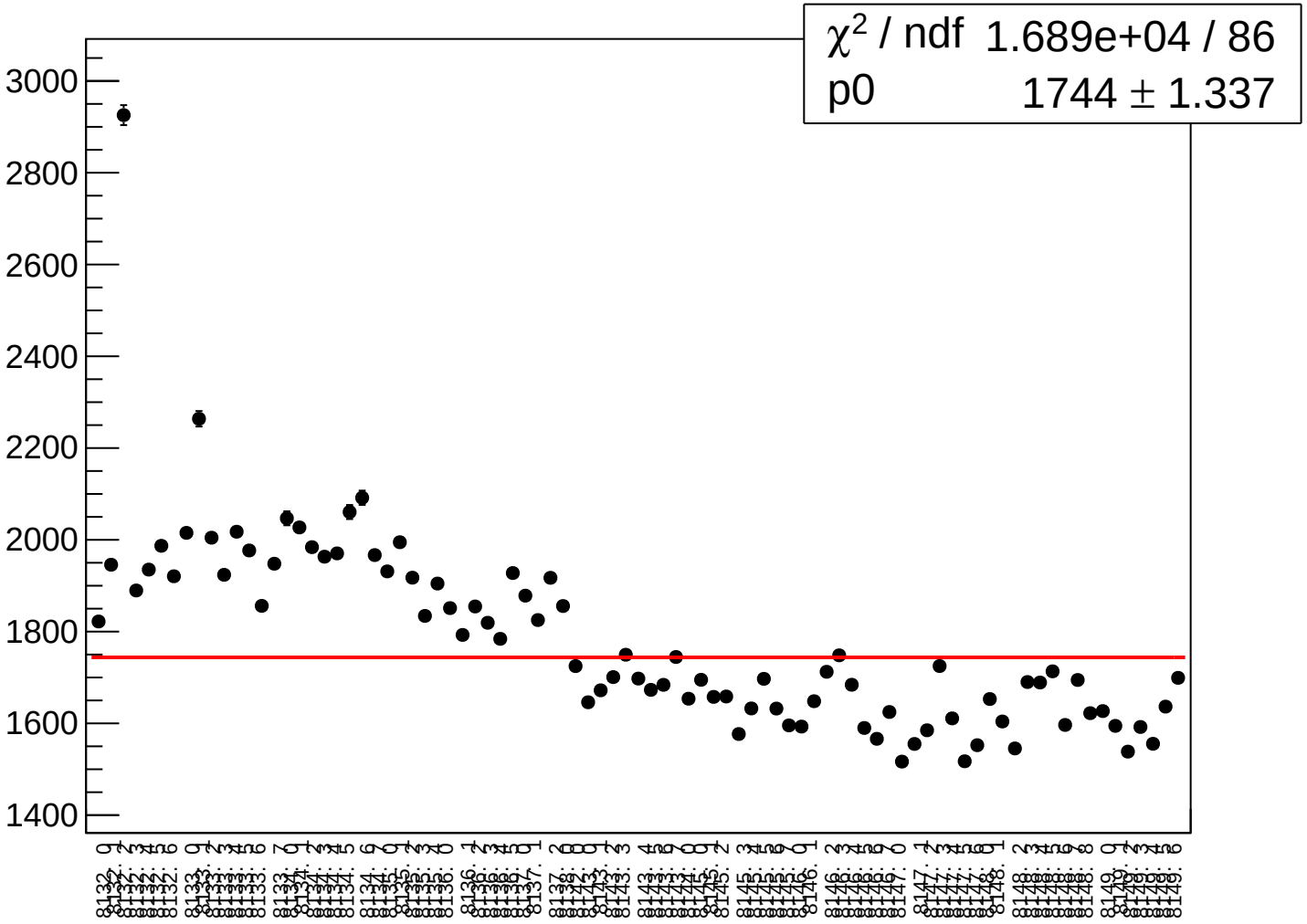

eigen_cor_asym_sam_2468_avg_mean vs run
χ² / ndf 93.52 / 86
p0 −114.3 ± 128.6
pull
Entries 87
Mean −585.4
Std Dev 0

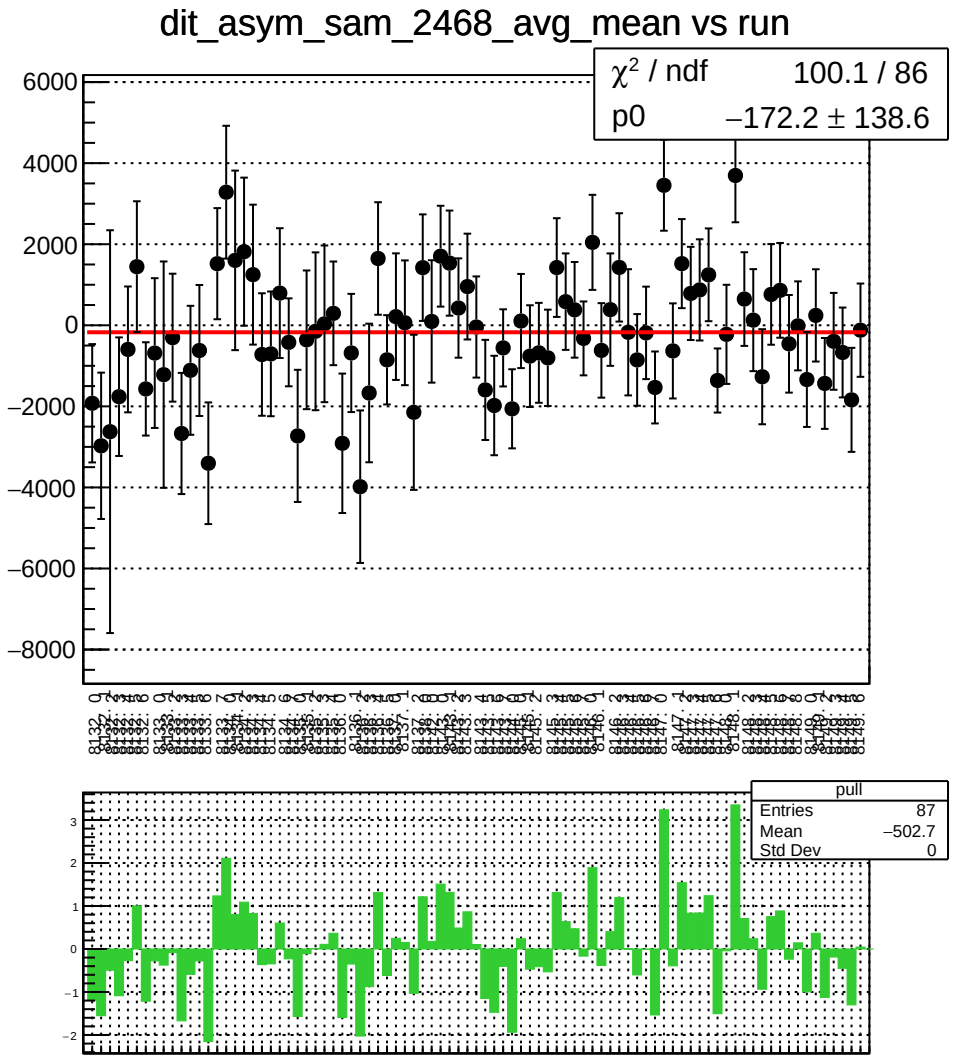

pull1D
Entries 87
Mean −0.004015
Std Dev 1.037

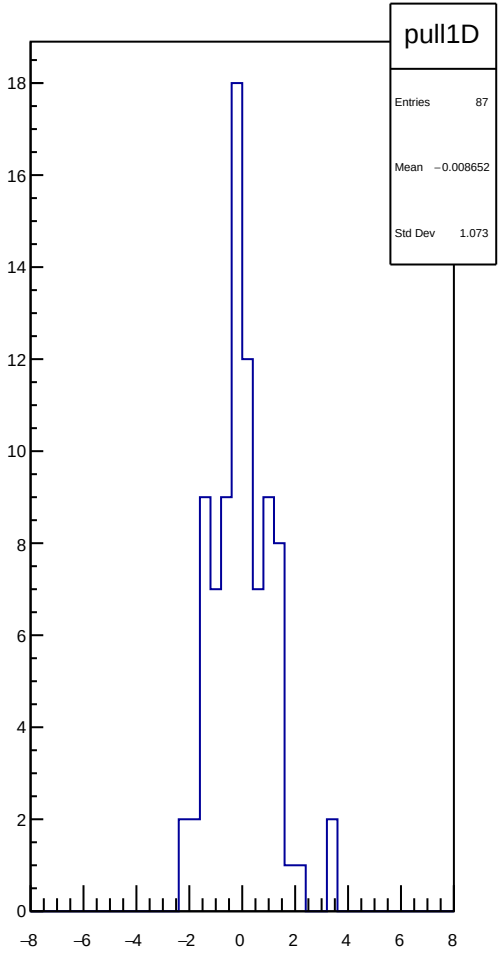

eigen_cor_asym_sam_2468_avg_rms vs run
χ^2 / ndf 6.083e+04 / 86
p0 117.1 ± 0.09093
450
400
350
300
250
200
150
100

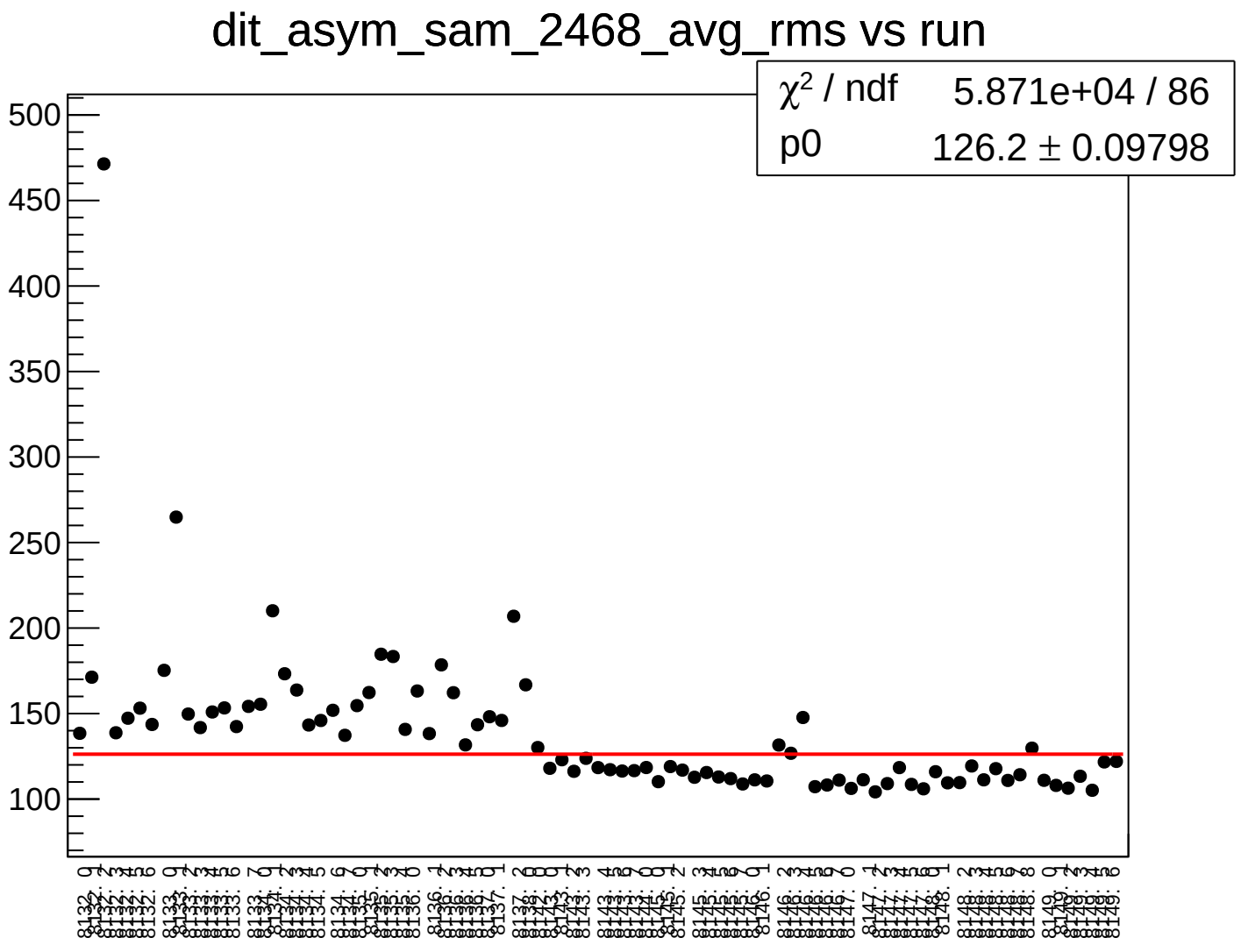

asym_sam_2468_avg_eigen_cor_correction_mean vs run
χ² / ndf 88.81 / 86
p0 −1956 ± 1890
pull
Entries 87
Mean −247.4
Std Dev 0

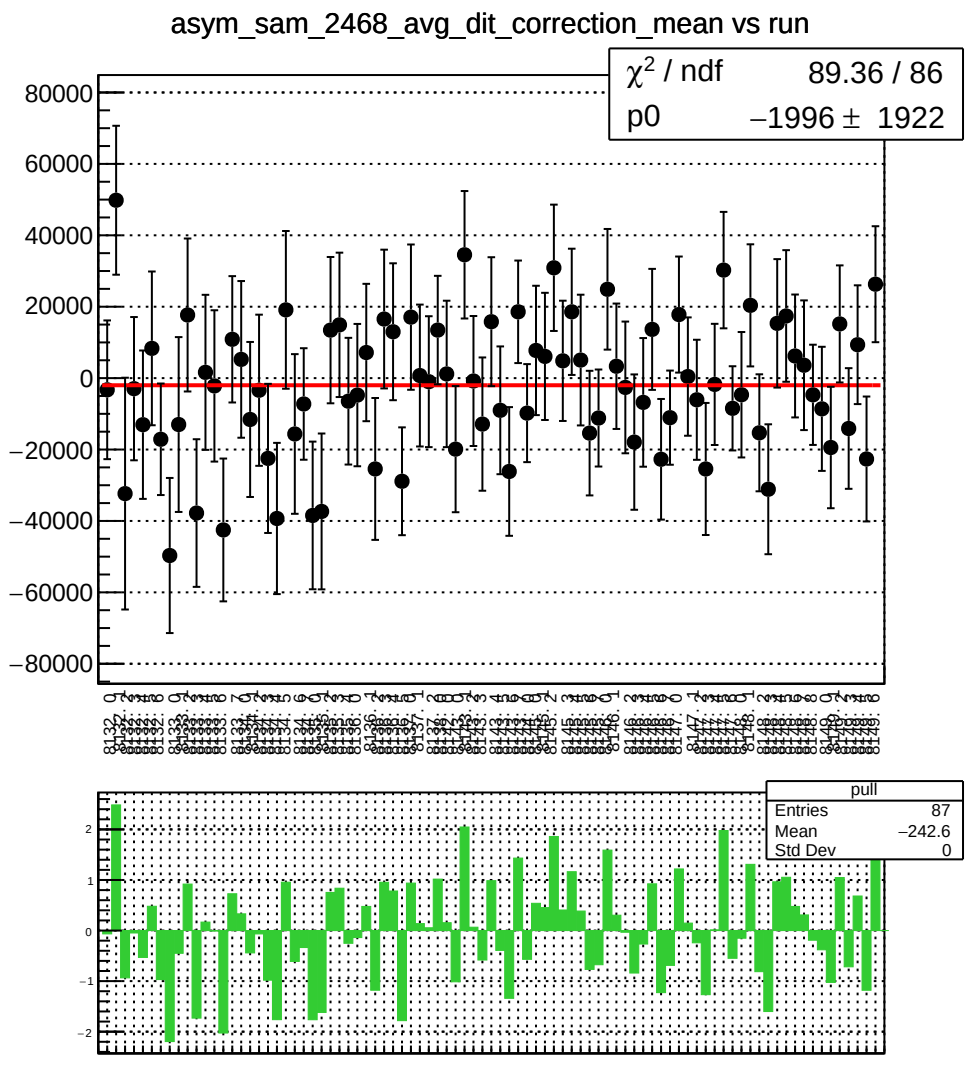

pull1D
Entries 87
Mean −0.01256
Std Dev 1.01

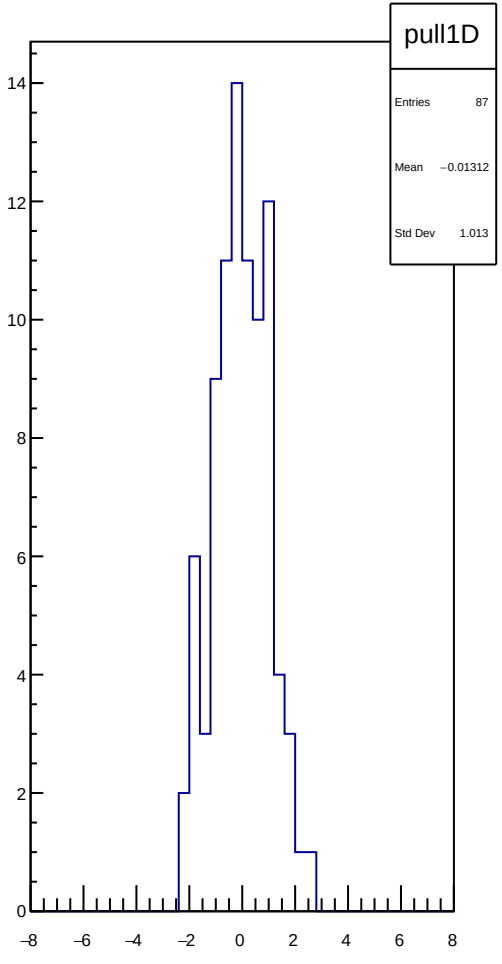

asym_sam_2468_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.689e+04 / 86
p0 1744 ± 1.337
3000
2800
2600
2400
2200
2000
1800
1600
1400

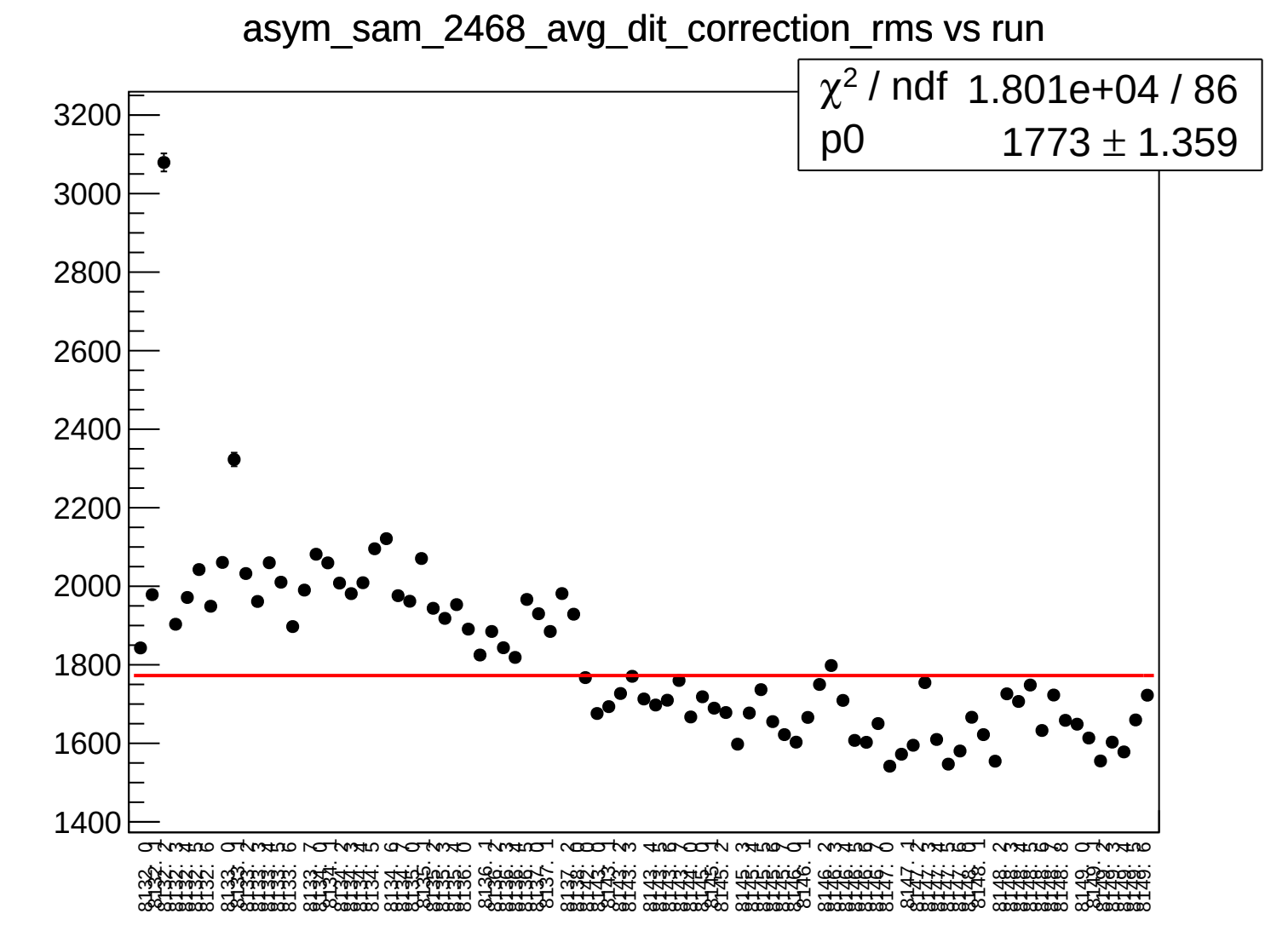

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 100.1 / 86
p0 −172.2 ± 138.6
pull
Entries 87
Mean −502.7
Std Dev 0

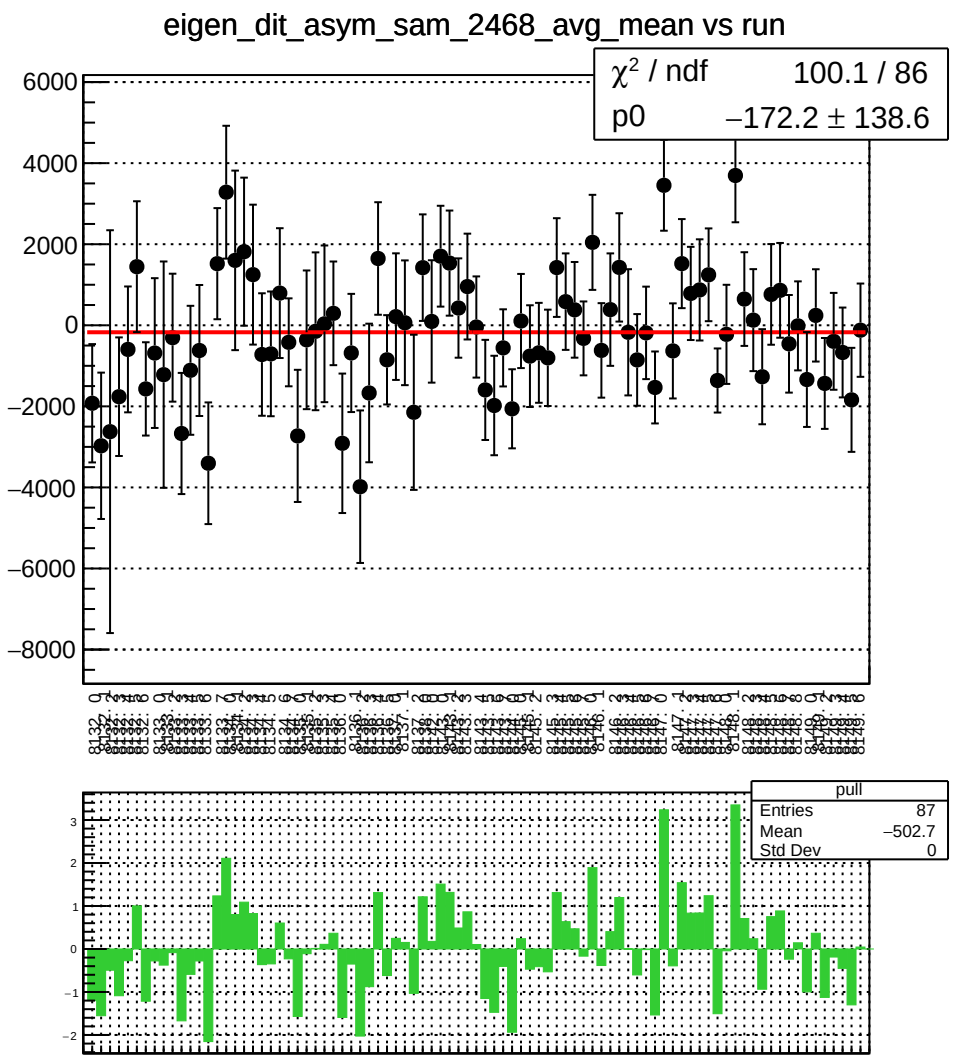

pull1D
Entries 87
Mean −0.008652
Std Dev 1.073

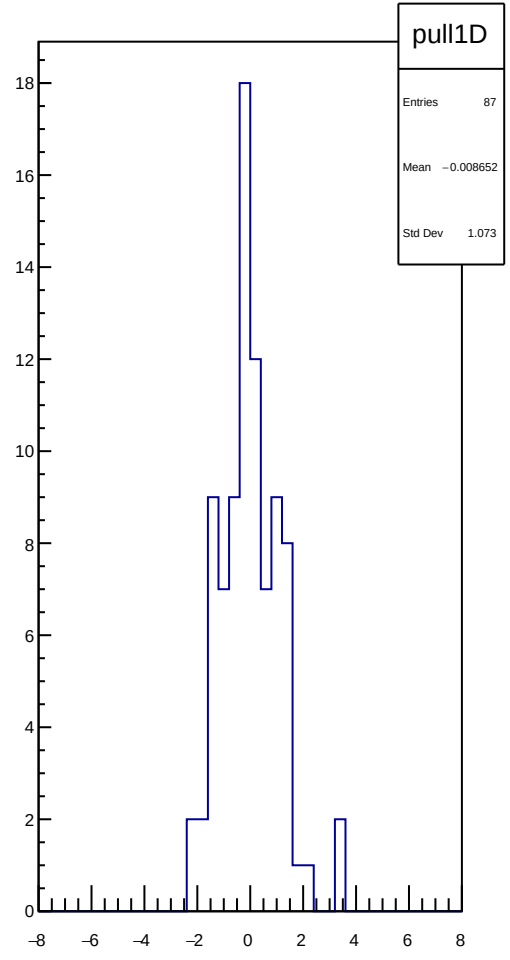

dit_asym_sam_2468_avg_rms vs run
χ² / ndf 5.871e+04 / 86
p0 126.2 ± 0.09798
500
450
400
350
300
250
200
150
100

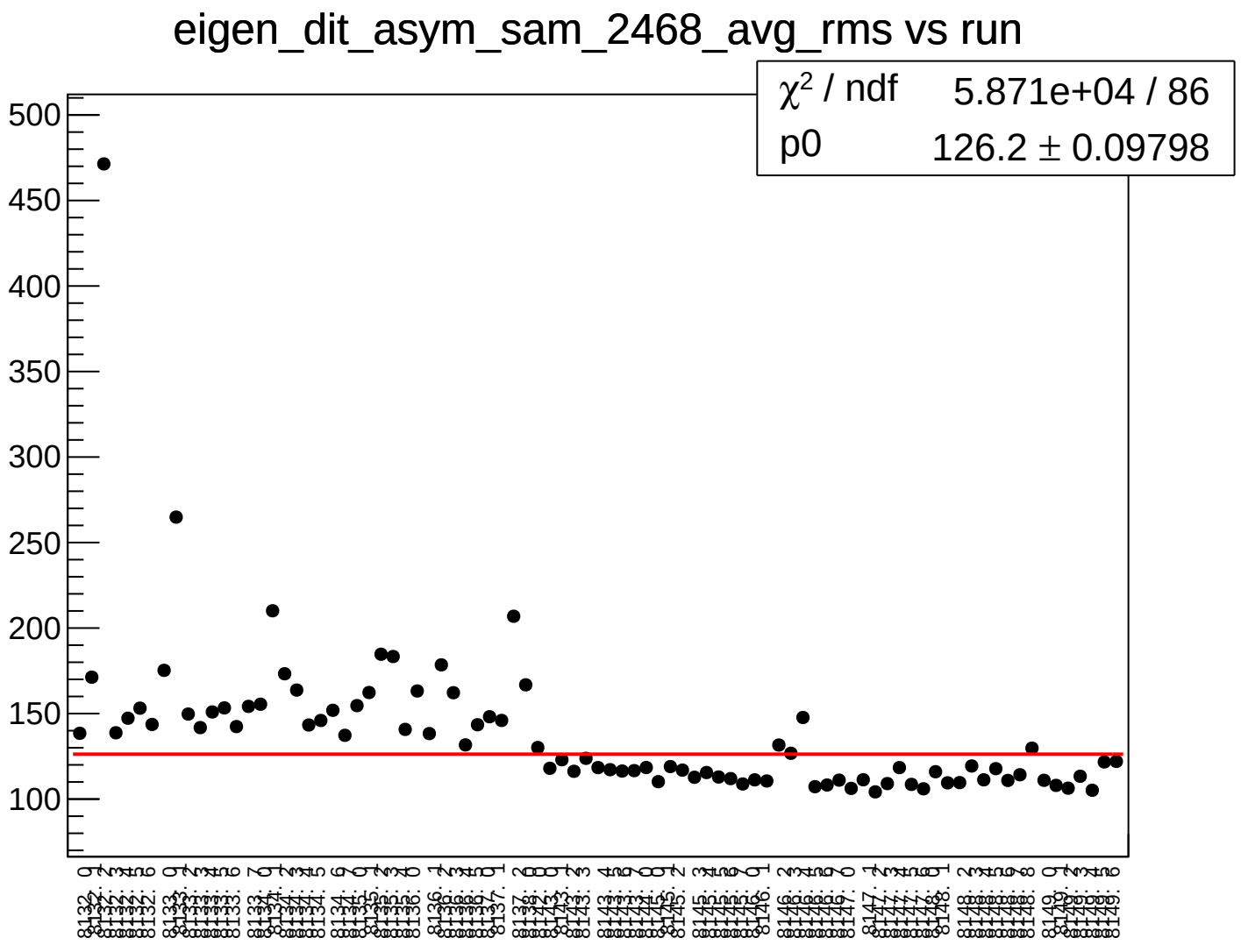

asym_sam_2468_avg_dit_correction_mean vs run
χ² / ndf 89.36 / 86
p0 −1996 ± 1922
pull
Entries 87
Mean −242.6
Std Dev 0

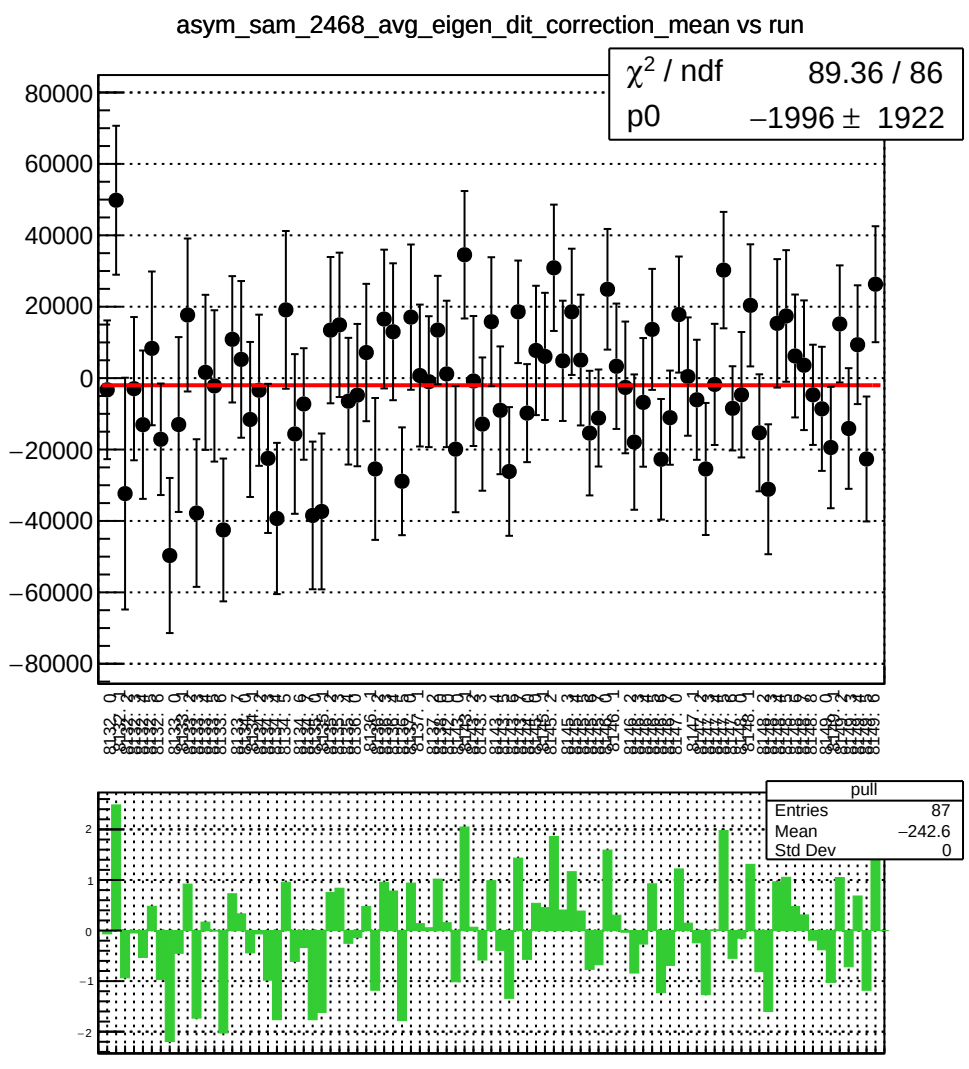

pull1D
Entries 87
Mean −0.01312
Std Dev 1.013

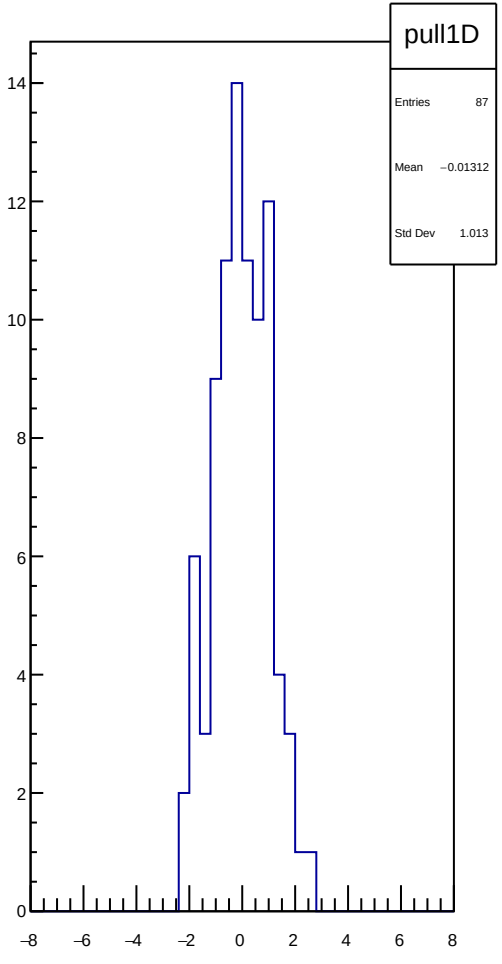

asym_sam_2468_avg_dit_correction_rms vs run
χ² / ndf 1.801e+04 / 86
p0 1773 ± 1.359
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400

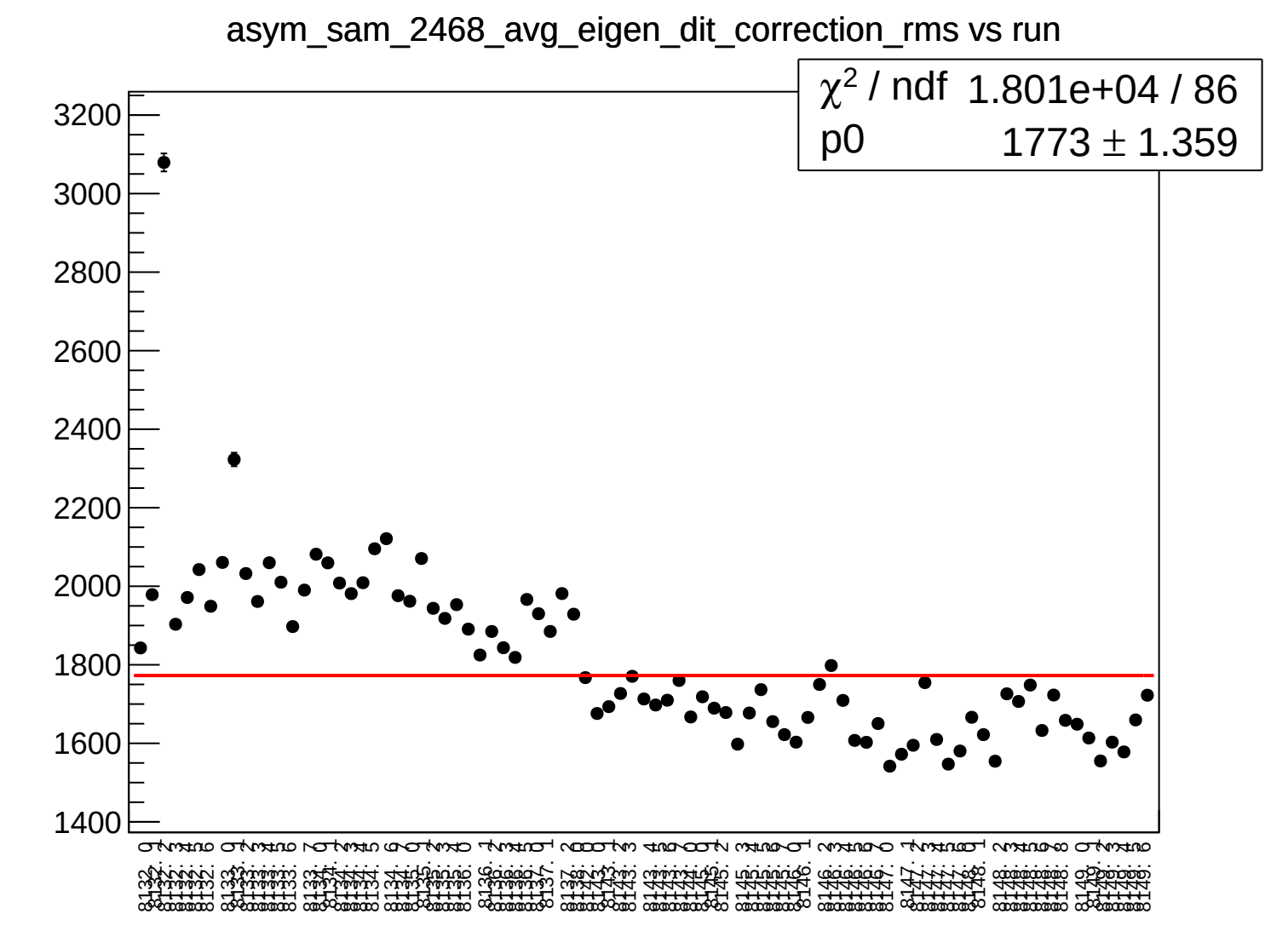

eigen_dit_asym_sam_2468_avg_mean vs run
χ² / ndf 100.1 / 86
p0 −172.2 ± 138.6
pull
Entries 87
Mean −502.7
Std Dev 0

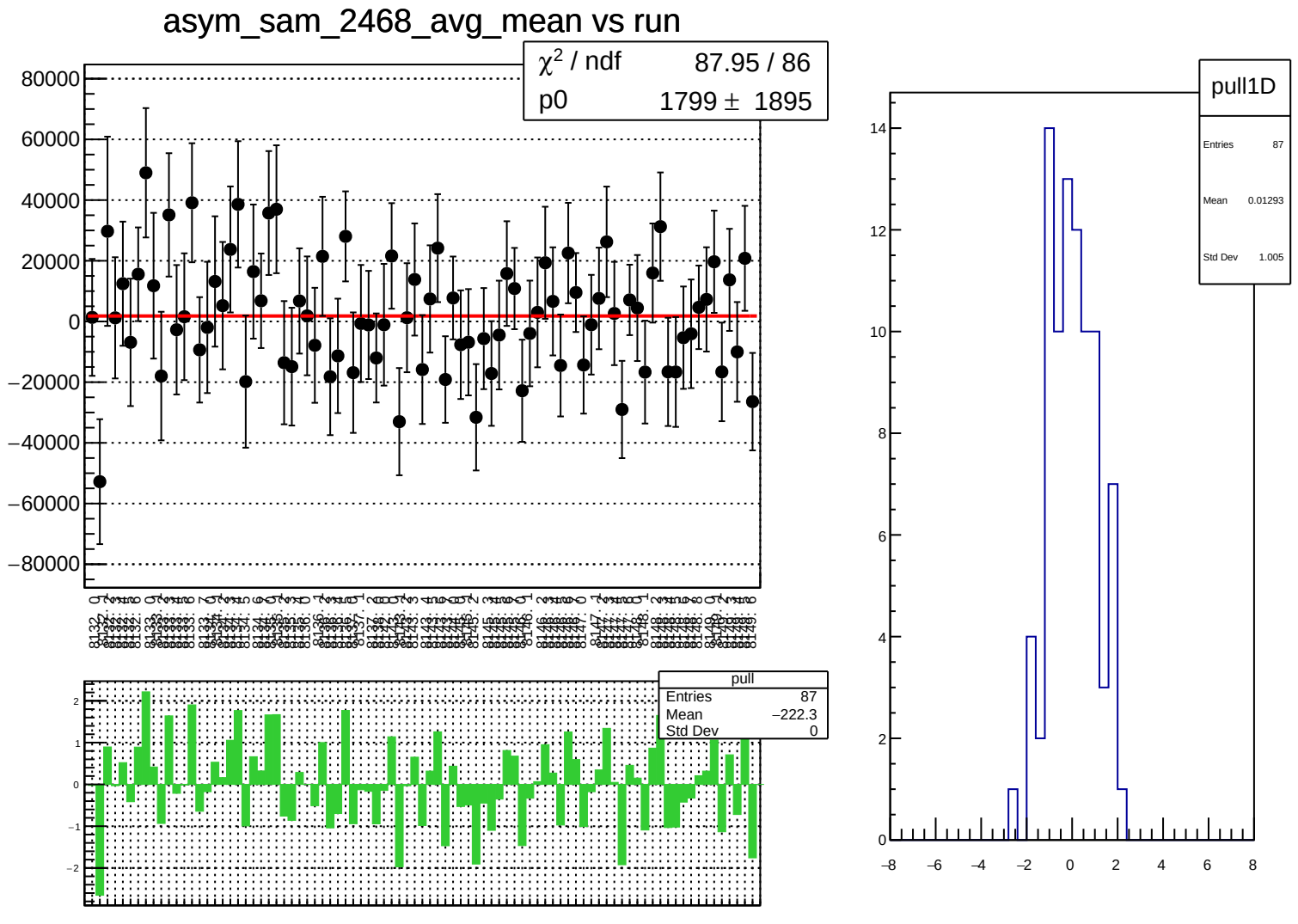

pull1D
Entries 87
Mean −0.008652
Std Dev 1.073

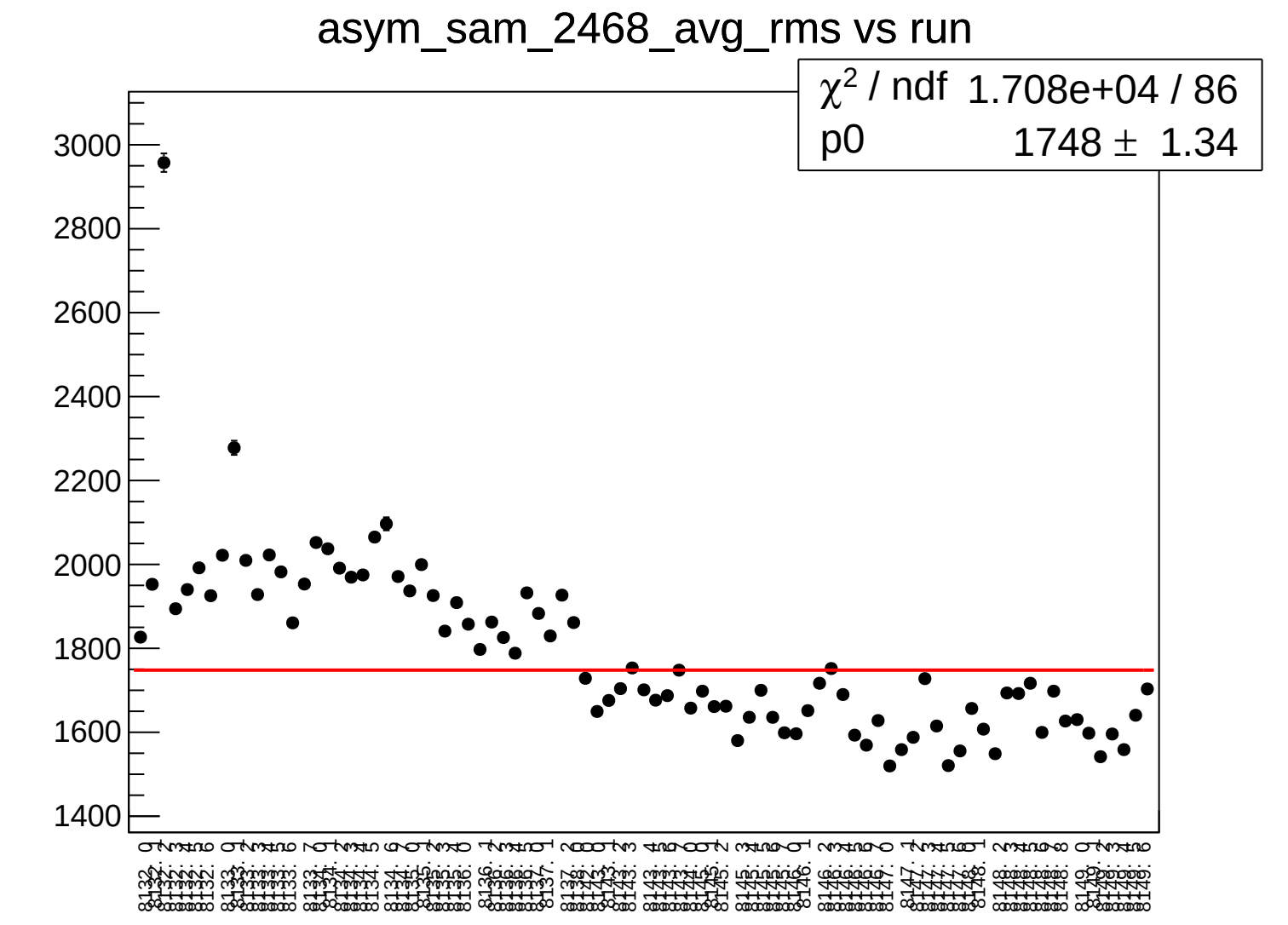

eigen_dit_asym_sam_2468_avg_rms vs run
χ^2 / ndf 5.871e+04 / 86
p0 126.2 ± 0.09798
500
450
400
350
300
250
200
150
100

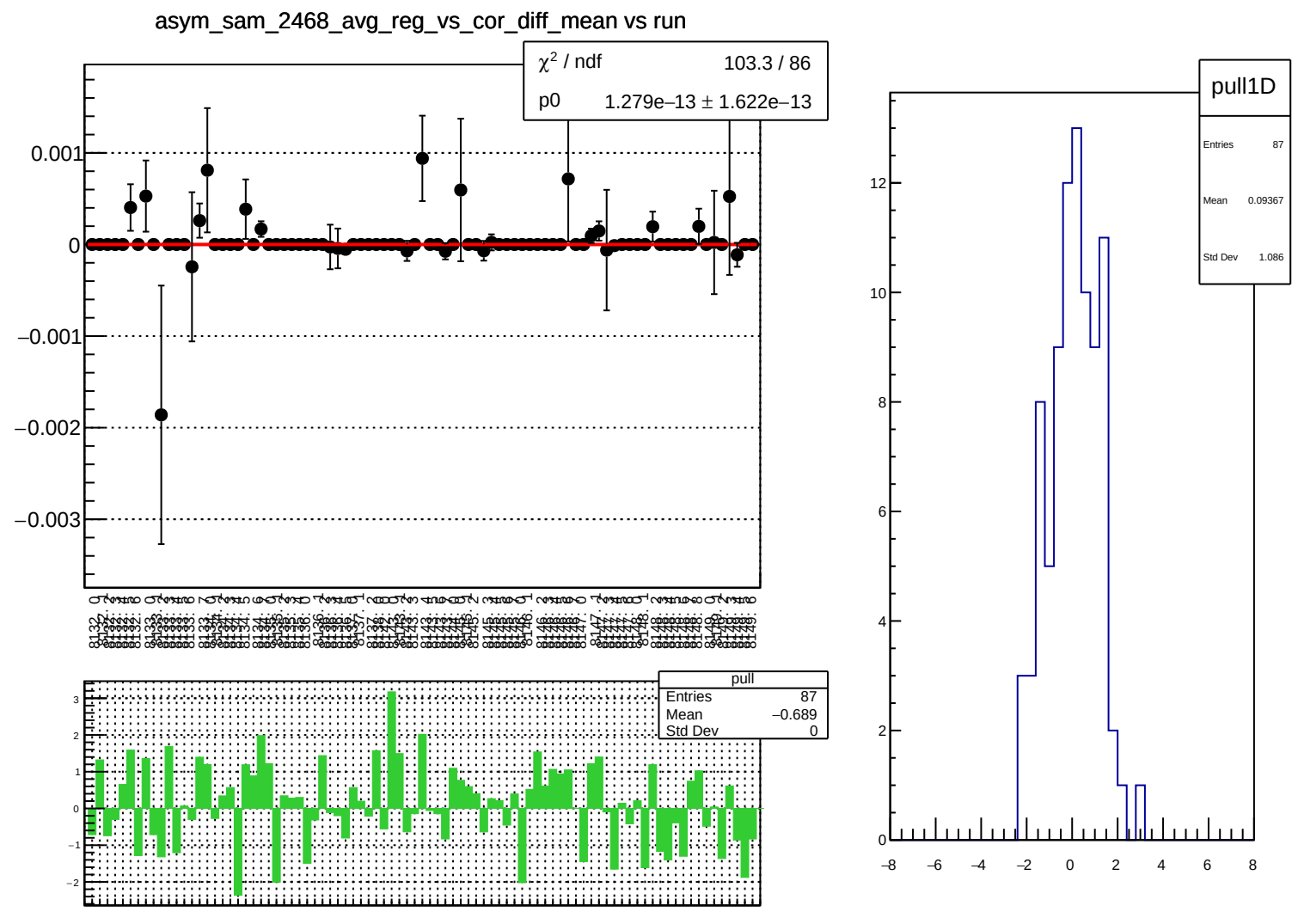

asym_sam_2468_avg_eigen_dit_correction_mean vs run
χ² / ndf 89.36 / 86
p0 −1996 ± 1922
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean −242.6
Std Dev 0
2
1
0
−1
−2

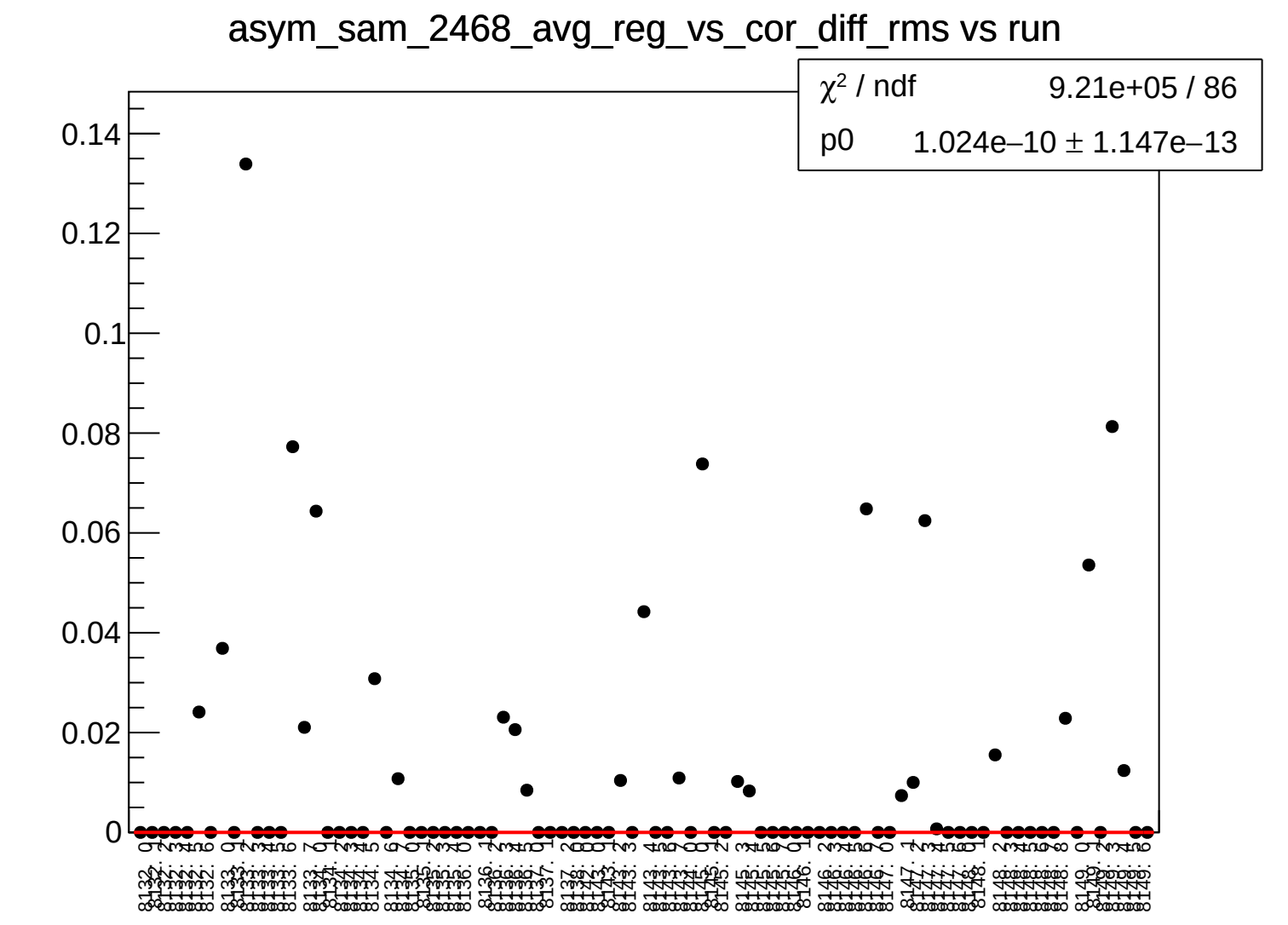

pull1D
Entries 87
Mean −0.01312
Std Dev 1.013
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

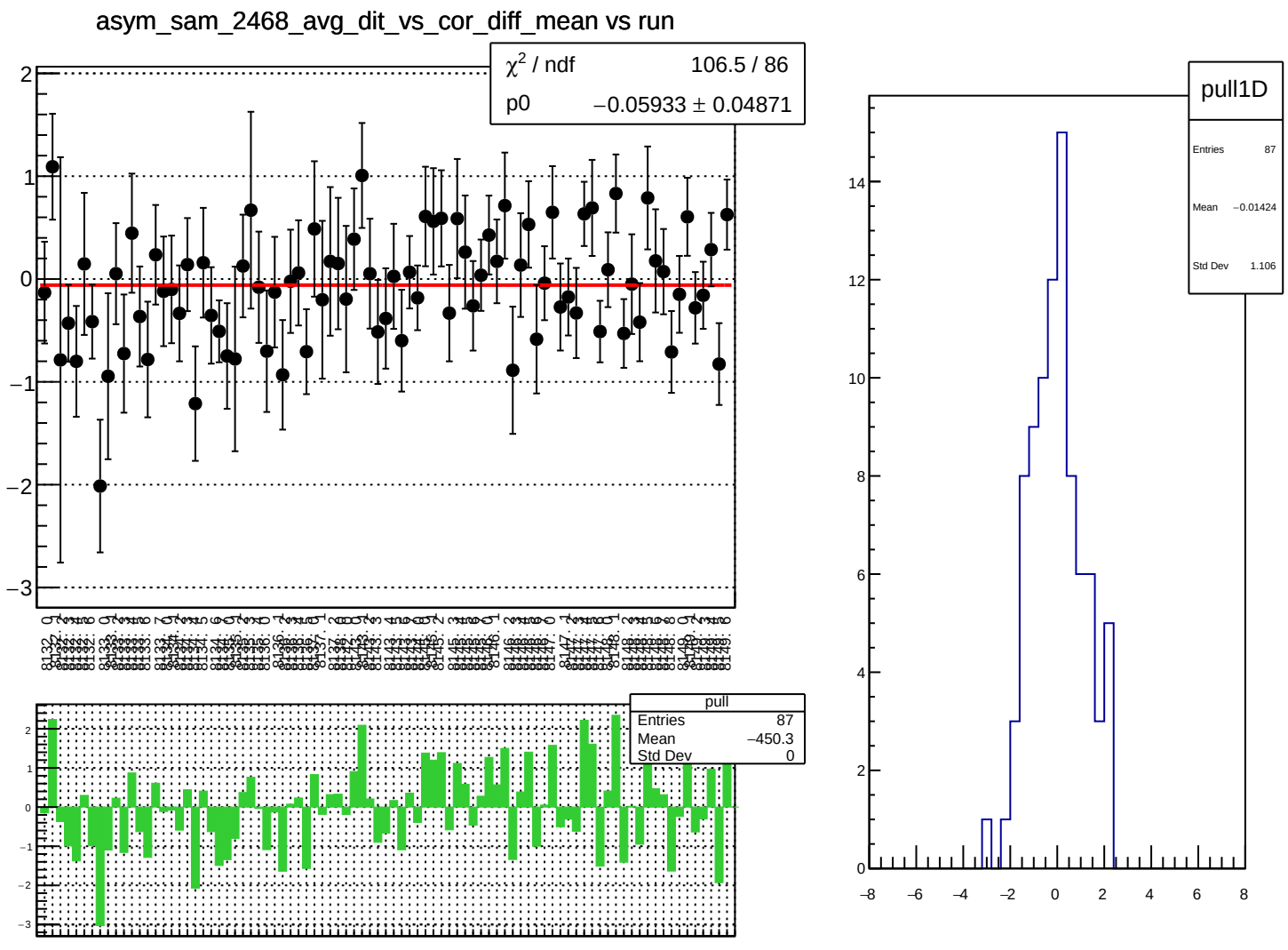

asym_sam_2468_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.801e+04 / 86
p0 1773 ± 1.359
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400

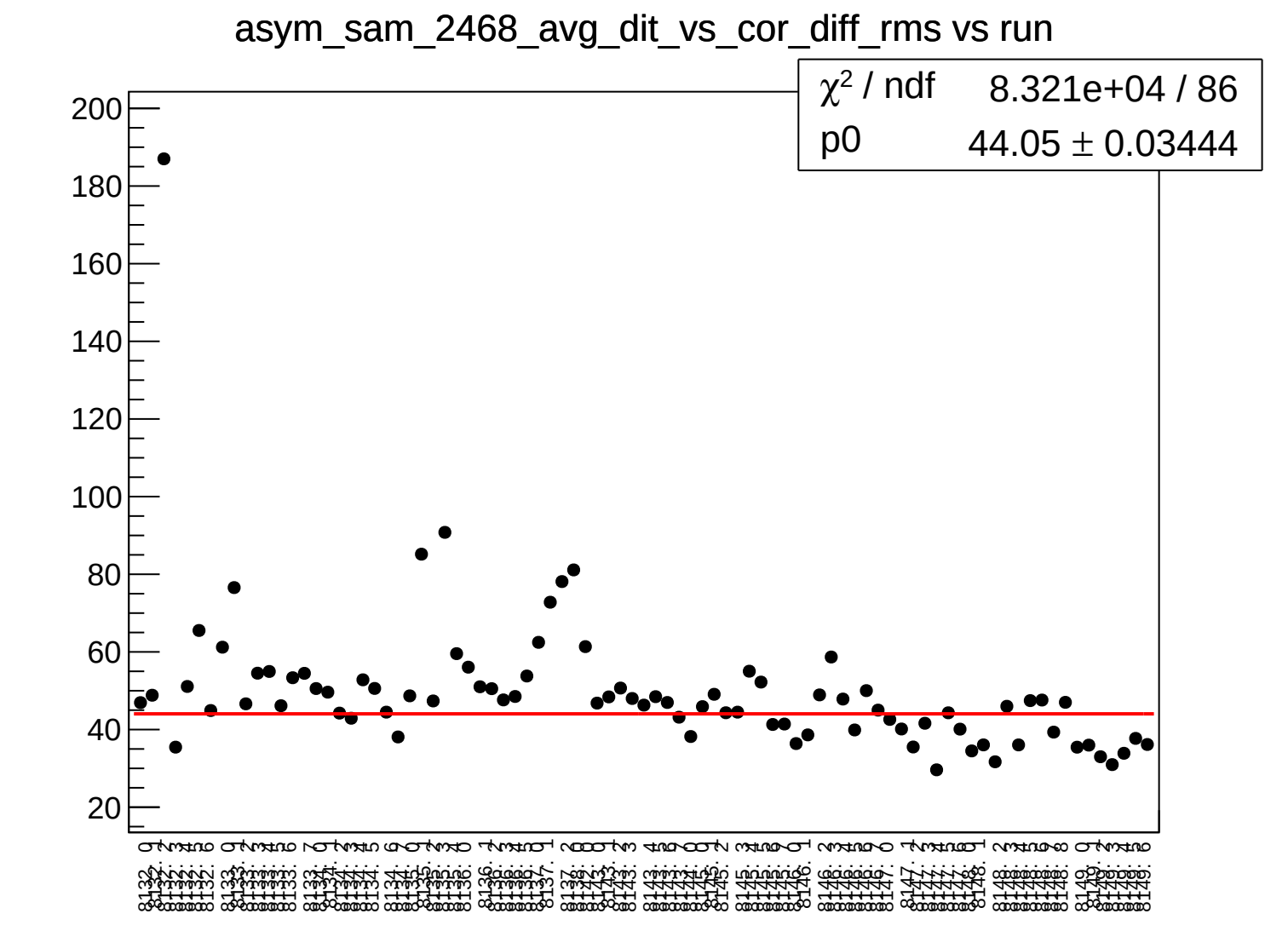

asym_sam_2468_avg_mean vs run
χ² / ndf 87.95 / 86
p0 1799 ± 1895
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean −222.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.01293
Std Dev 1.005
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

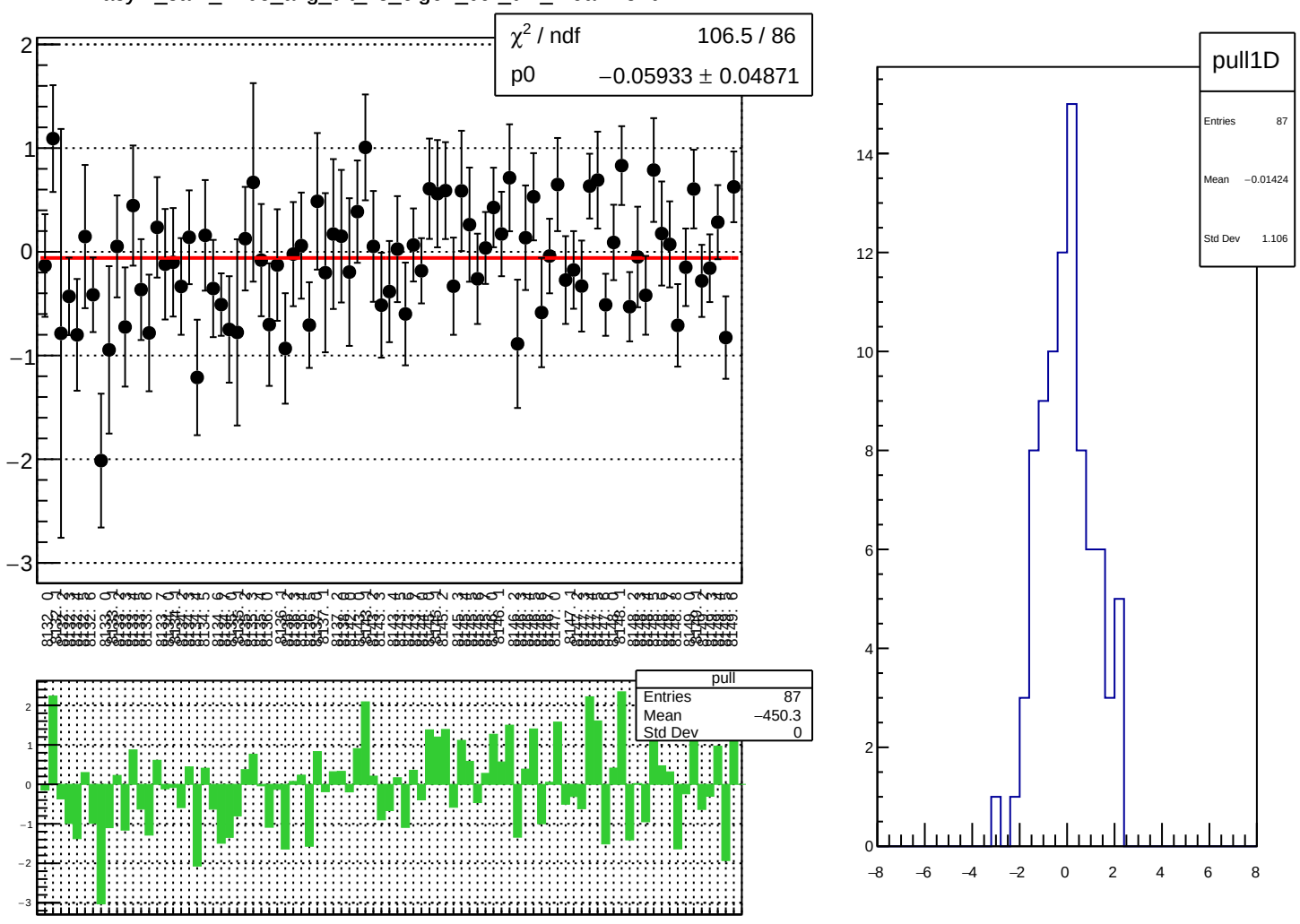

asym_sam_2468_avg_rms vs run
χ² / ndf 1.708e+04 / 86
p0 1748 ± 1.34
3000
2800
2600
2400
2200
2000
1800
1600
1400

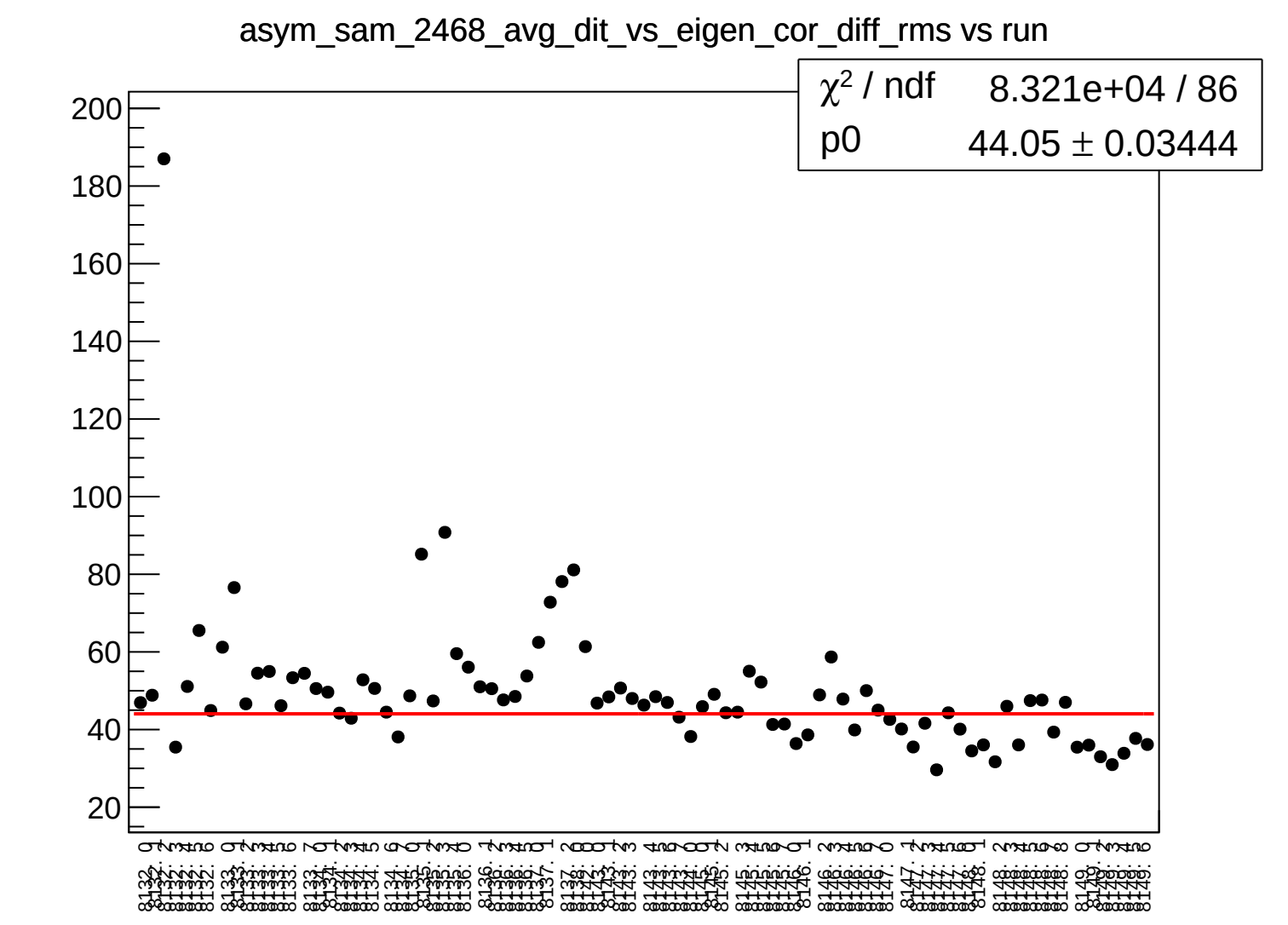

asym_sam_2468_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 103.3 / 86
p0 1.279e−13 ± 1.622e−13
0.001
0
−0.001
−0.002
−0.003
pull
Entries 87
Mean −0.689
Std Dev 0
pull1D
Entries 87
Mean 0.09367
Std Dev 1.086

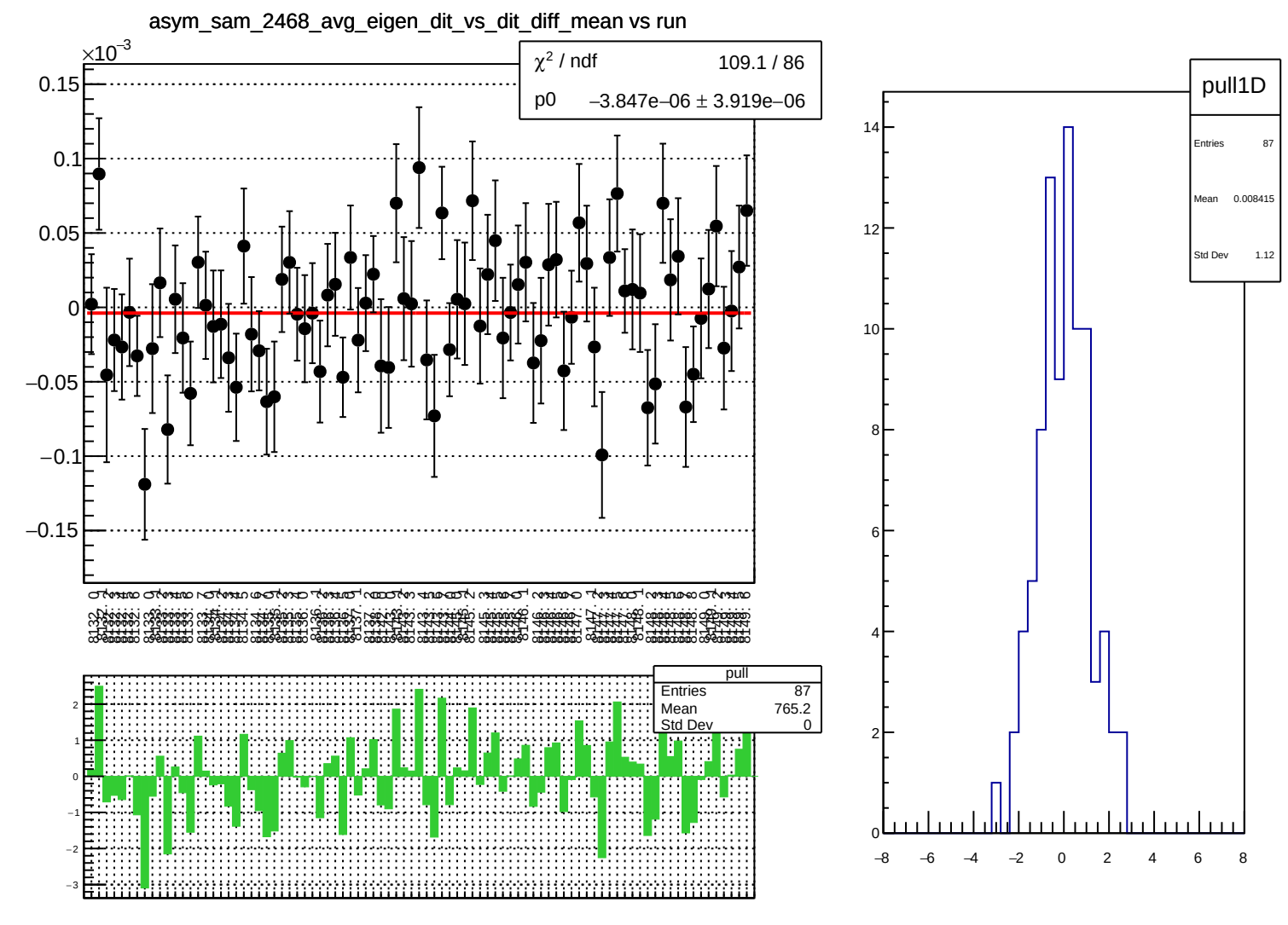

asym_sam_2468_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.21e+05 / 86
p0 1.024e−10 ± 1.147e−13
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

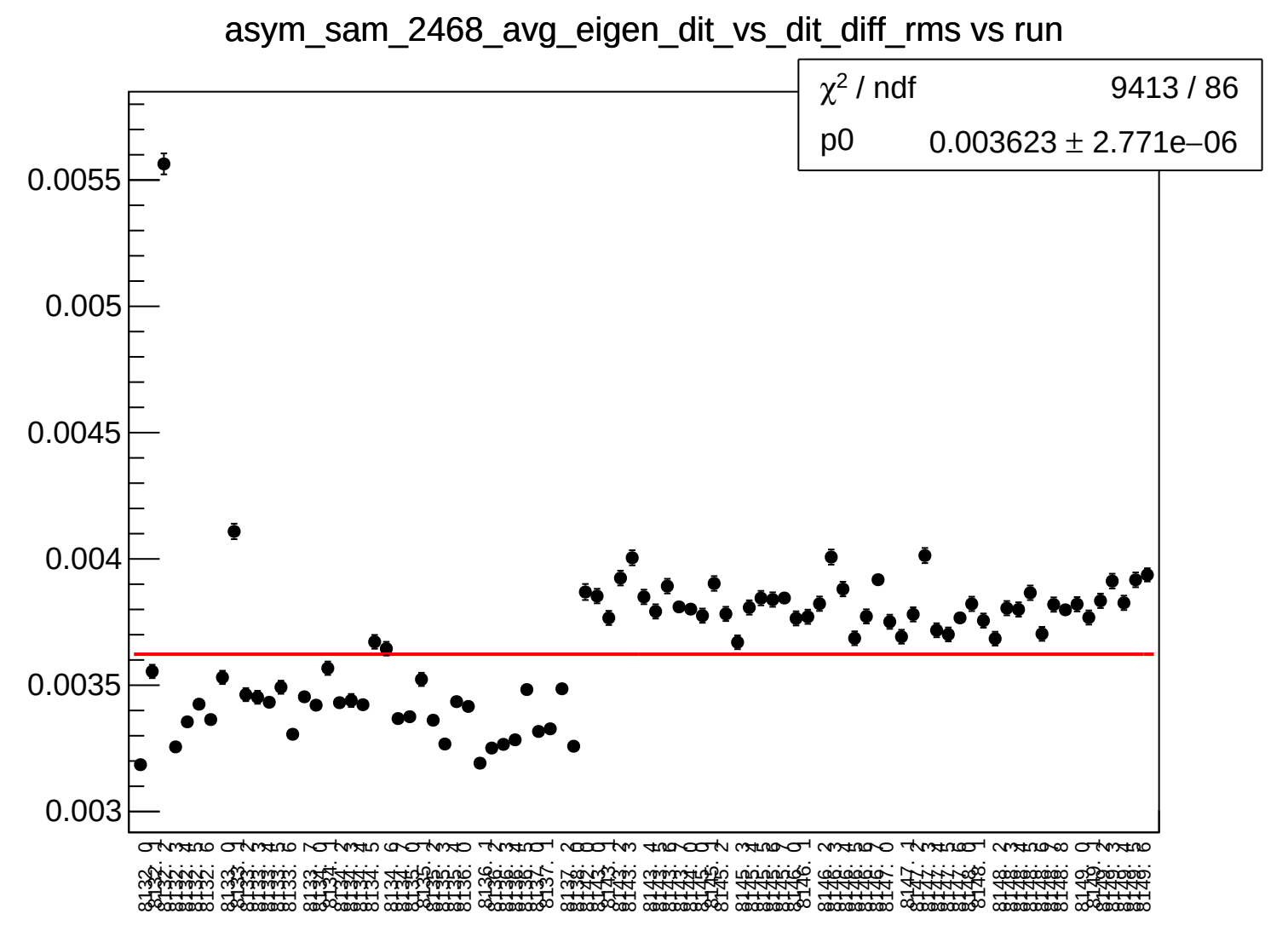

asym_sam_2468_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 106.5 / 86
p0 −0.05933 ± 0.04871
pull
Entries 87
Mean −450.3
Std Dev 0
pull1D
Entries 87
Mean −0.01424
Std Dev 1.106

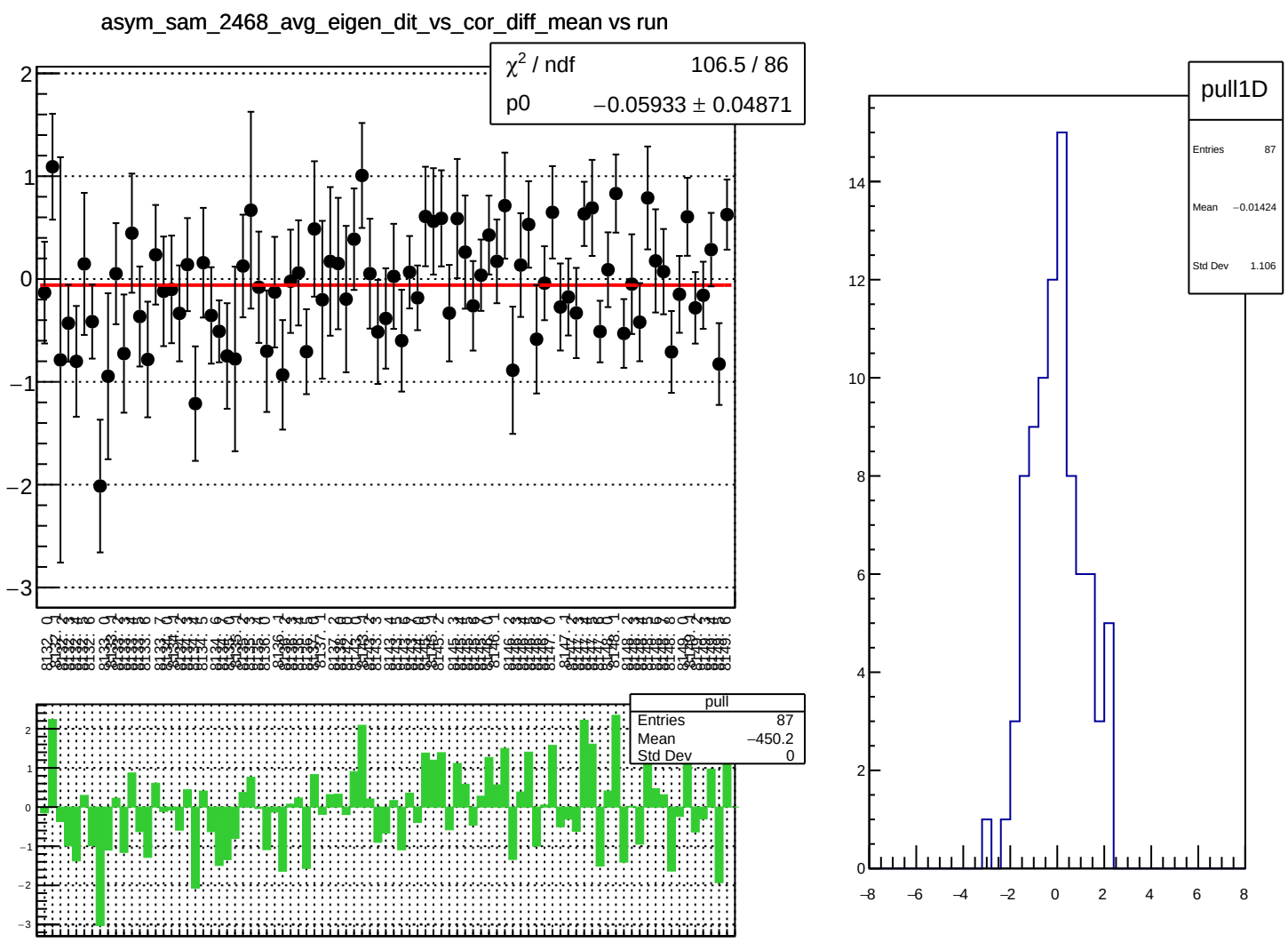

asym_sam_2468_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.321e+04 / 86
p0 44.05 ± 0.03444
200
180
160
140
120
100
80
60
40
20

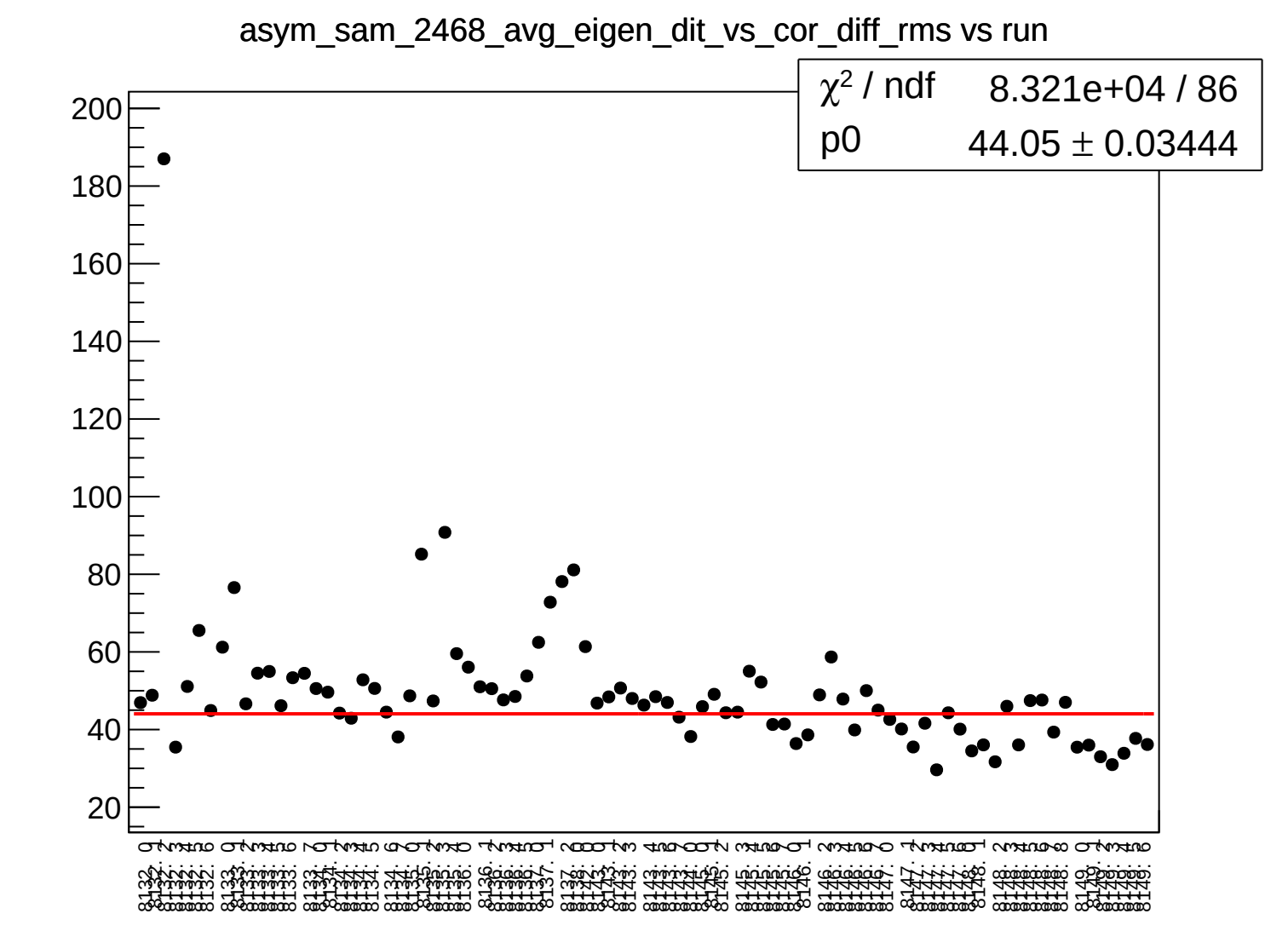

asym_sam_2468_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.5 / 86
p0 −0.05933 ± 0.04871
pull
Entries 87
Mean −450.3
Std Dev 0
pull1D
Entries 87
Mean −0.01424
Std Dev 1.106

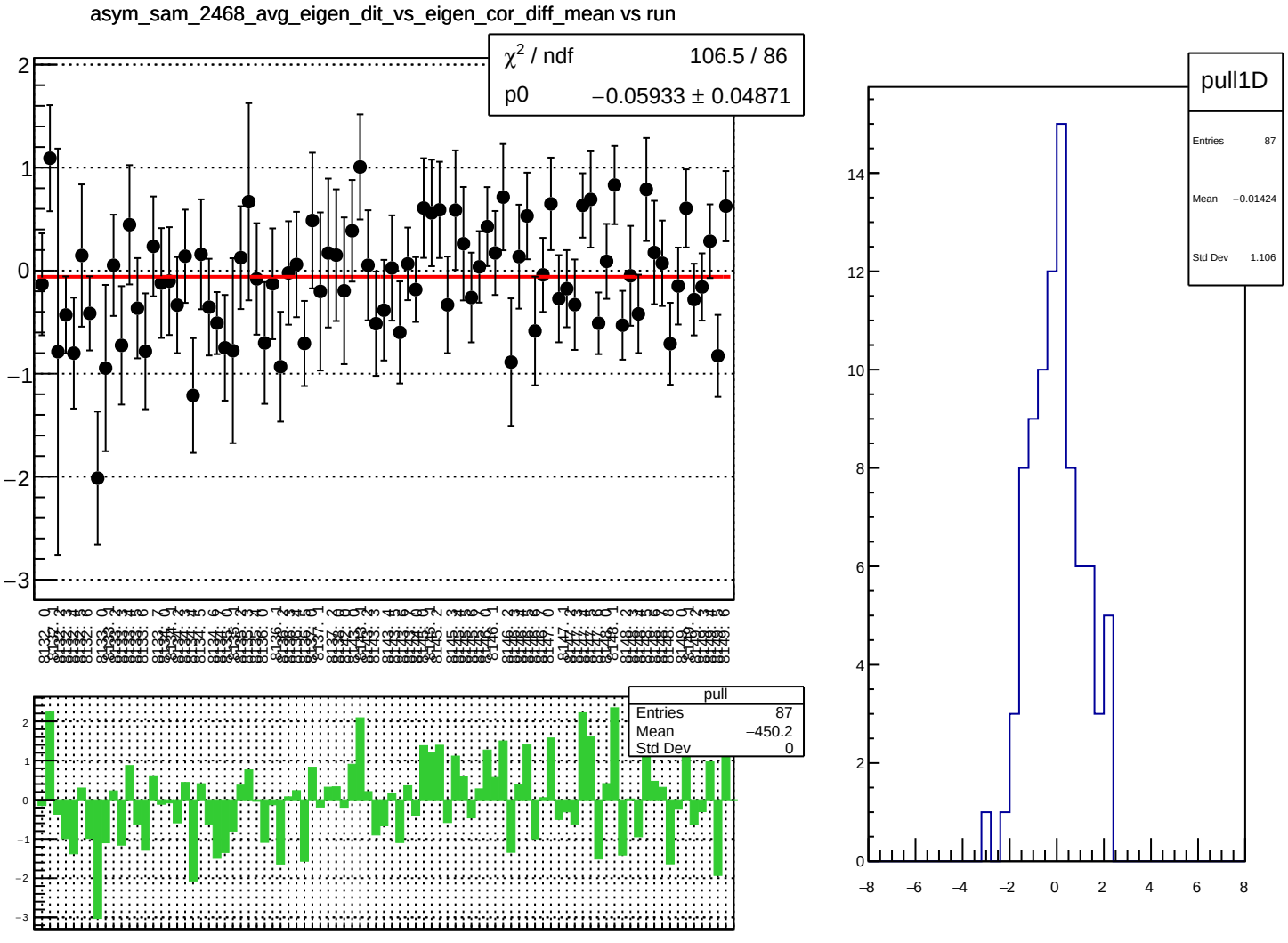

asym_sam_2468_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.321e+04 / 86
p0 44.05 ± 0.03444
200
180
160
140
120
100
80
60
40
20

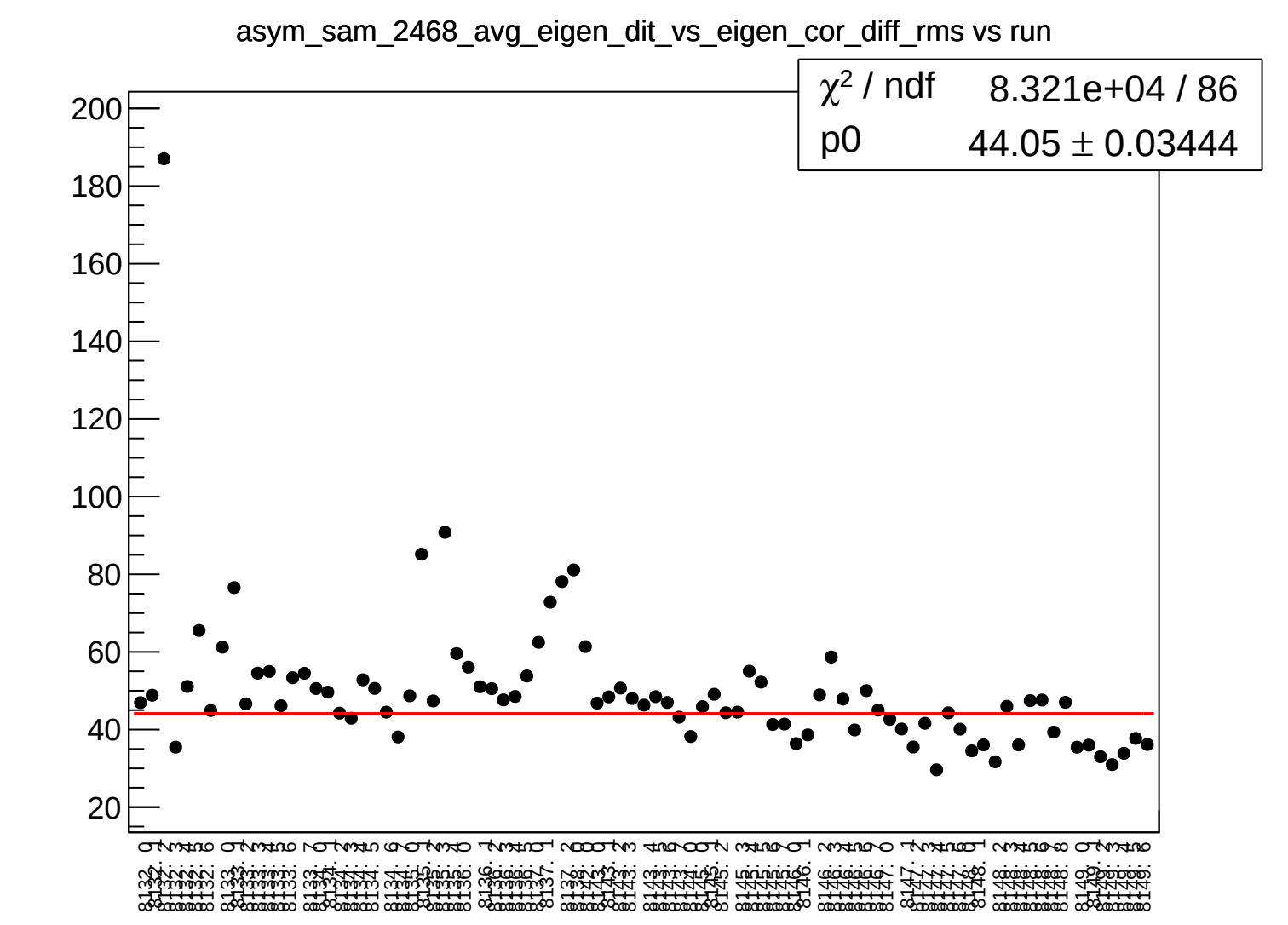

asym_sam_2468_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 109.1 / 86
p0 −3.847e−06 ± 3.919e−06
pull
Entries 87
Mean 765.2
Std Dev 0
pull1D
Entries 87
Mean 0.008415
Std Dev 1.12

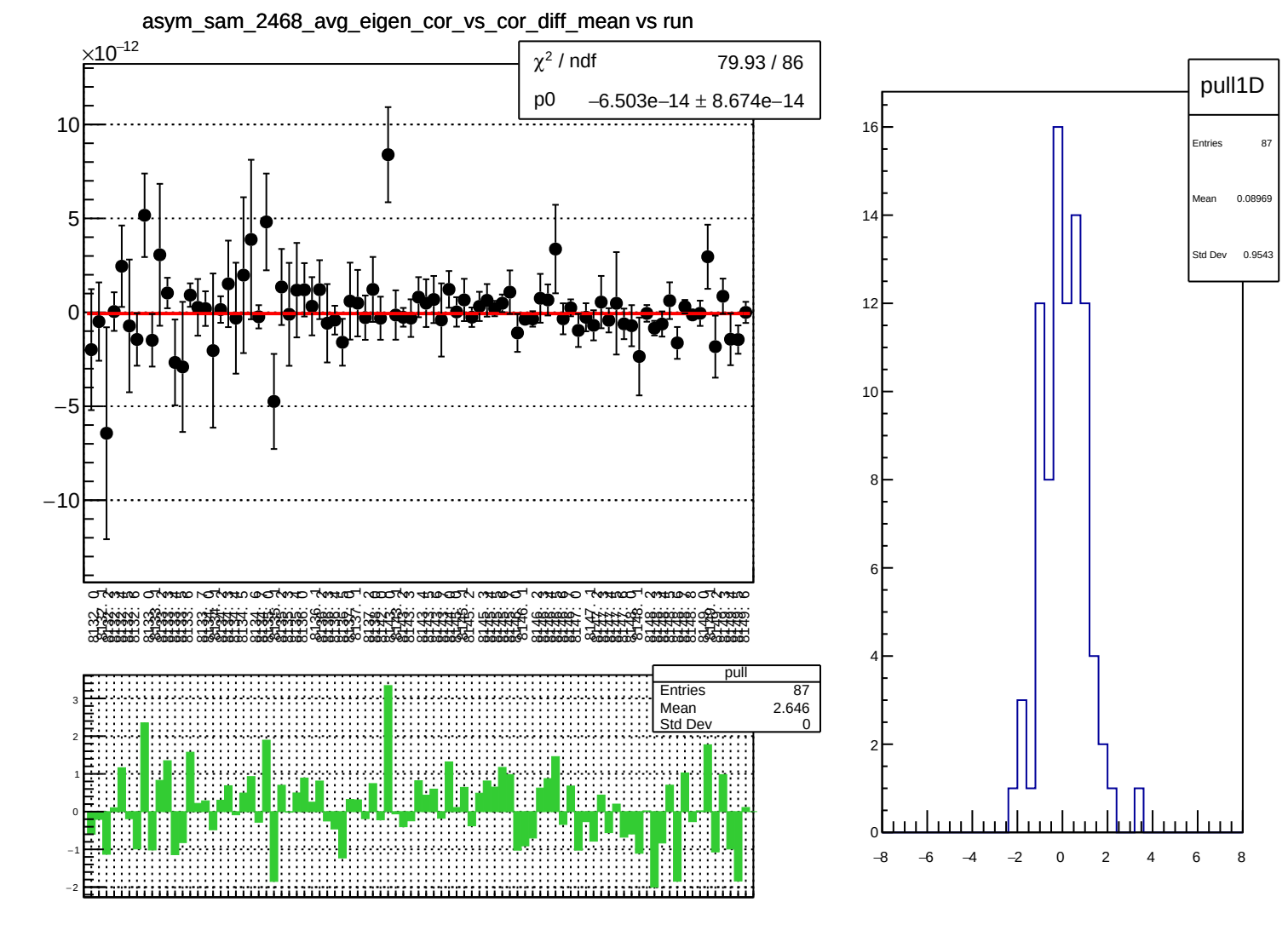

asym_sam_2468_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9413 / 86
p0 0.003623 ± 2.771e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003

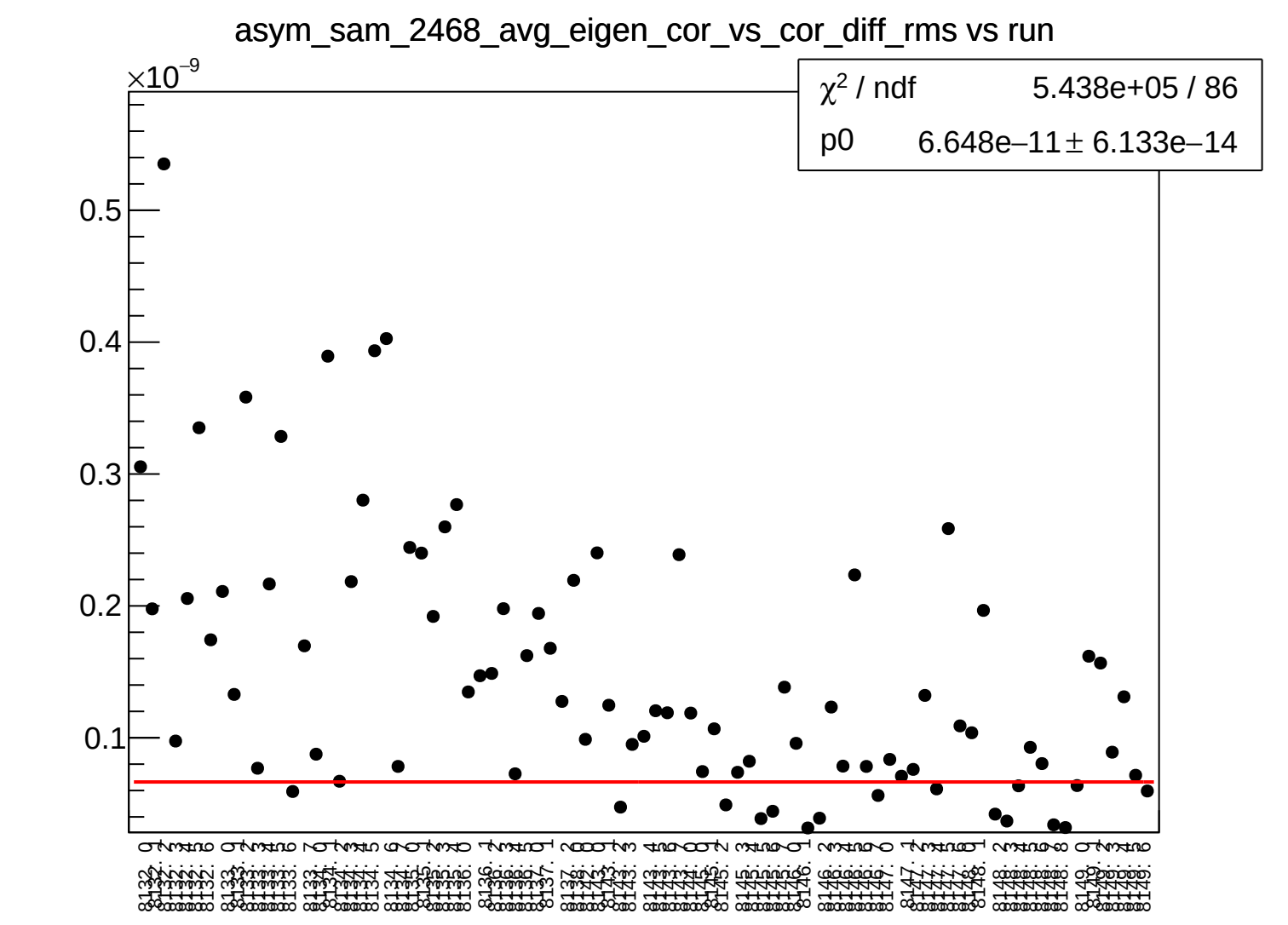

asym_sam_2468_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 106.5 / 86
p0 −0.05933 ± 0.04871
pull
Entries 87
Mean −450.2
Std Dev 0
pull1D
Entries 87
Mean −0.01424
Std Dev 1.106

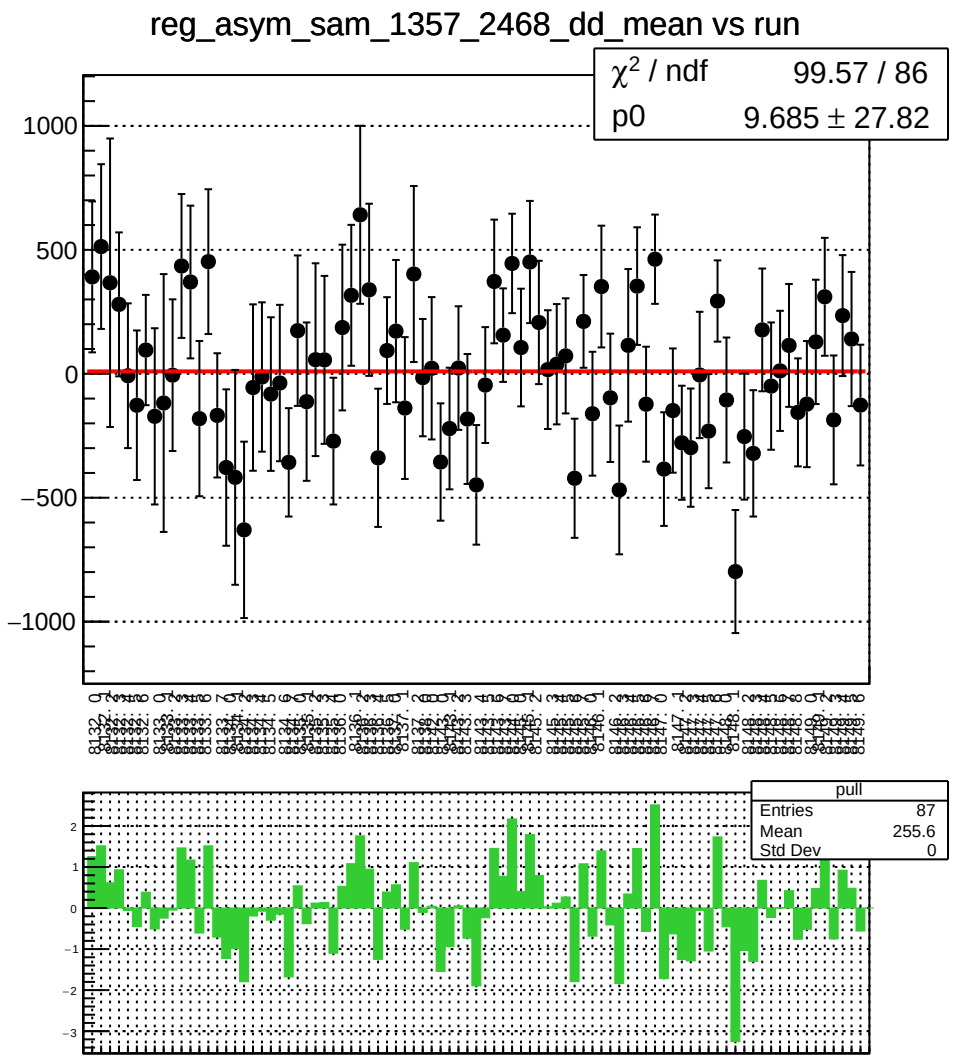

asym_sam_2468_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.321e+04 / 86
p0 44.05 ± 0.03444
200
180
160
140
120
100
80
60
40
20

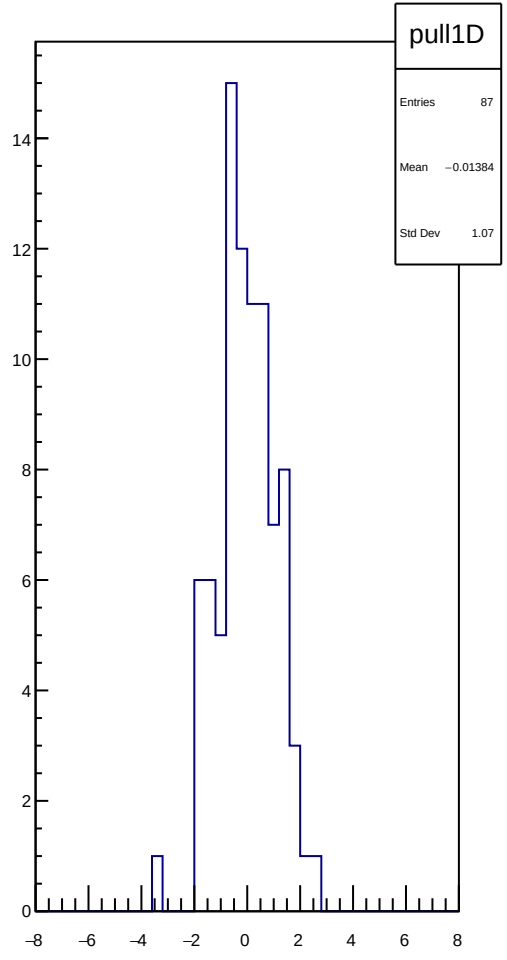

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.5 / 86
p0 −0.05933 ± 0.04871
pull
Entries 87
Mean −450.2
Std Dev 0
pull1D
Entries 87
Mean −0.01424
Std Dev 1.106

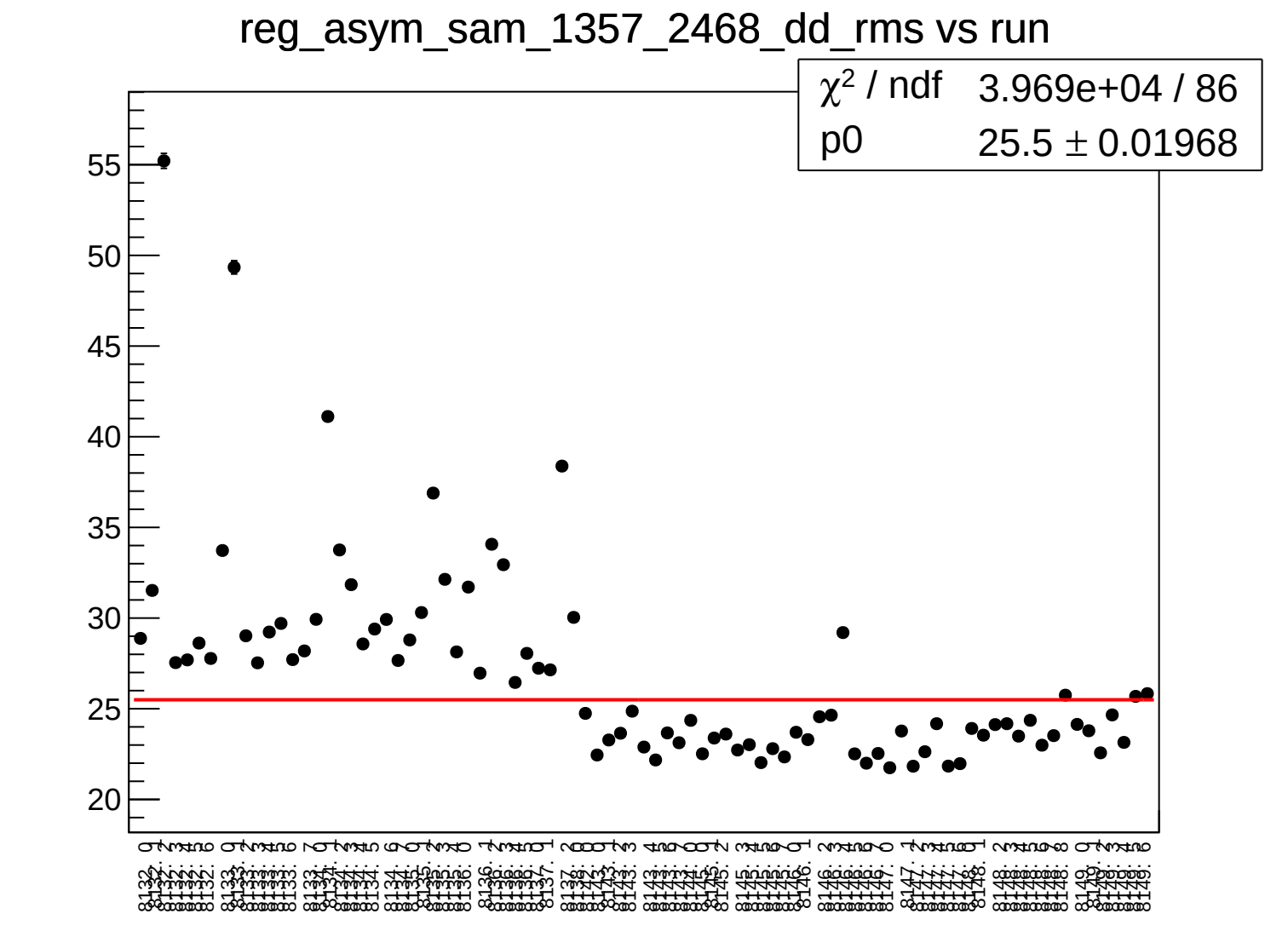

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.321e+04 / 86
p0 44.05 ± 0.03444
200
180
160
140
120
100
80
60
40
20

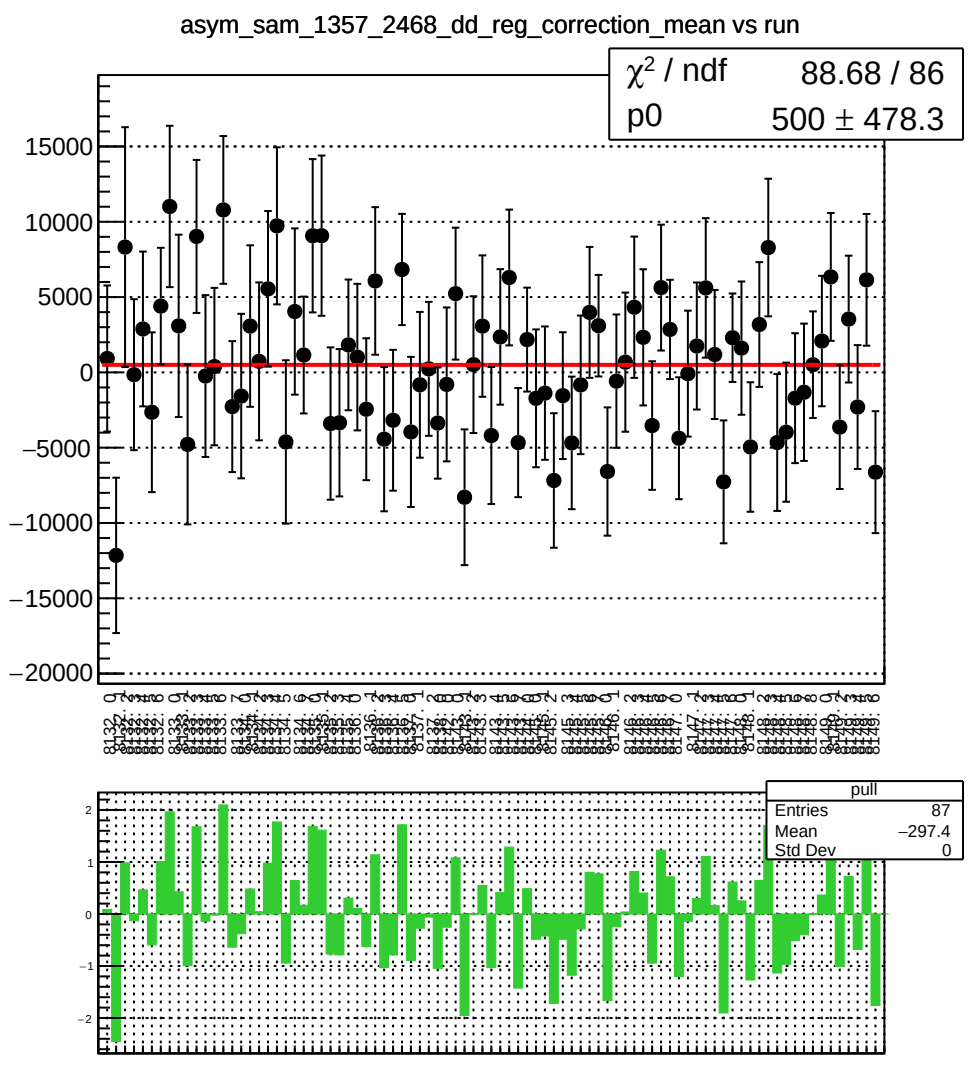

asym_sam_2468_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 79.93 / 86
p0 −6.503e−14 ± 8.674e−14
pull
Entries 87
Mean 2.646
Std Dev 0
pull1D
Entries 87
Mean 0.08969
Std Dev 0.9543

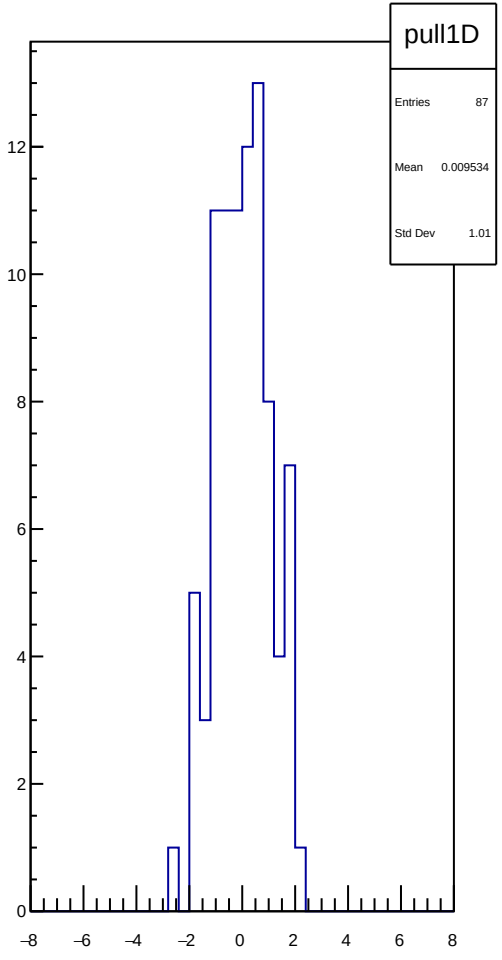

asym_sam_2468_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.438e+05 / 86
p0 6.648e−11 ± 6.133e−14
0.5
0.4
0.3
0.2
0.1

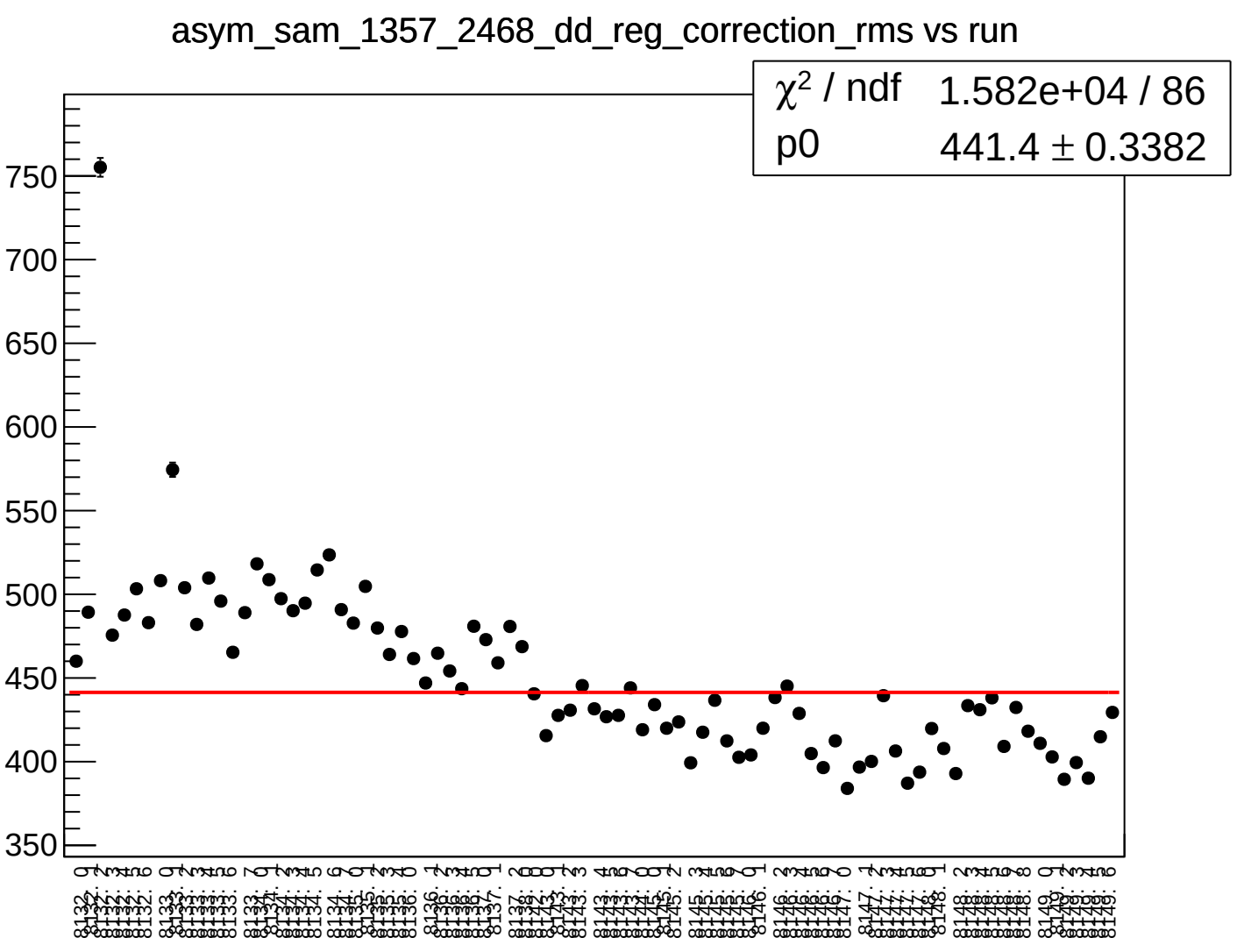

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 99.57 / 86
p0 9.685 ± 27.82
1000
500
0
−500
−1000
pull
Entries 87
Mean 255.6
Std Dev 0
2
1
0
−1
−2
−3

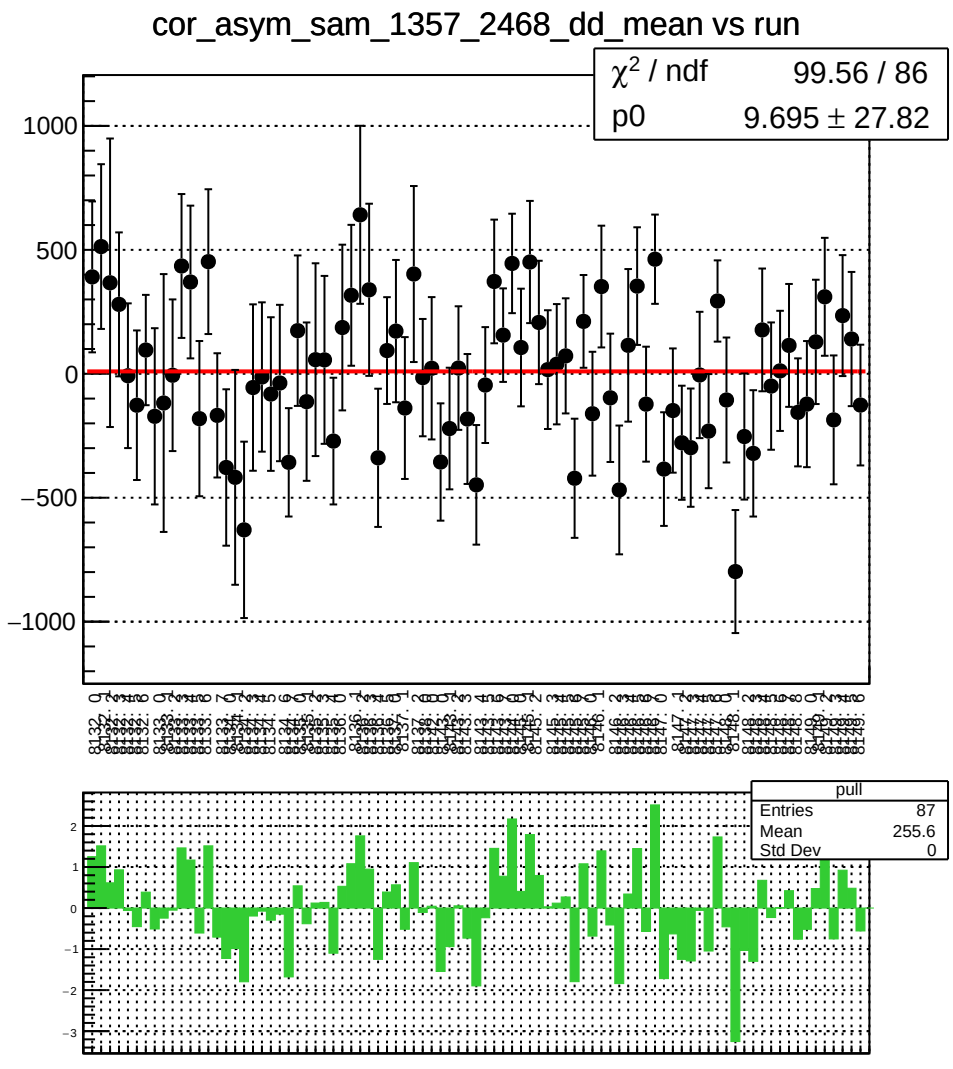

pull1D
Entries 87
Mean −0.01384
Std Dev 1.07
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

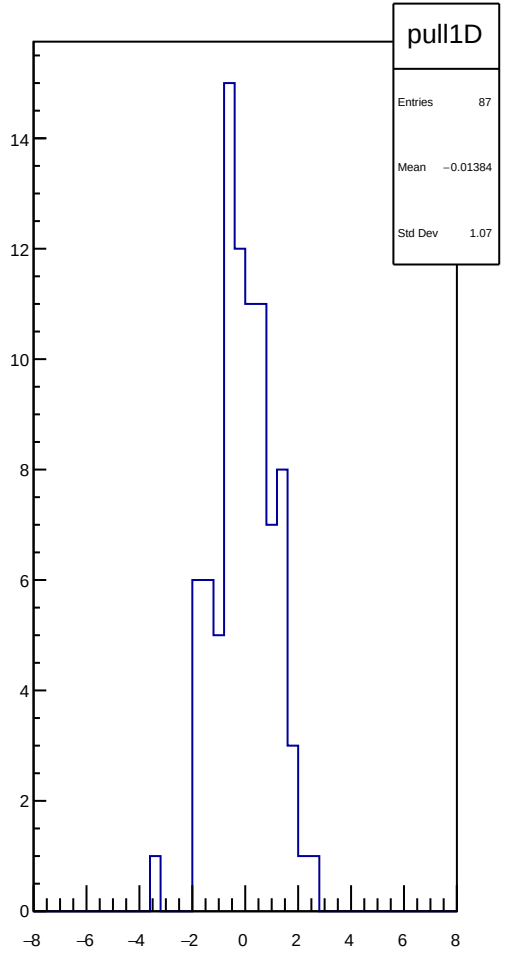

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 3.969e+04 / 86
p0 25.5 ± 0.01968
55
50
45
40
35
30
25
20

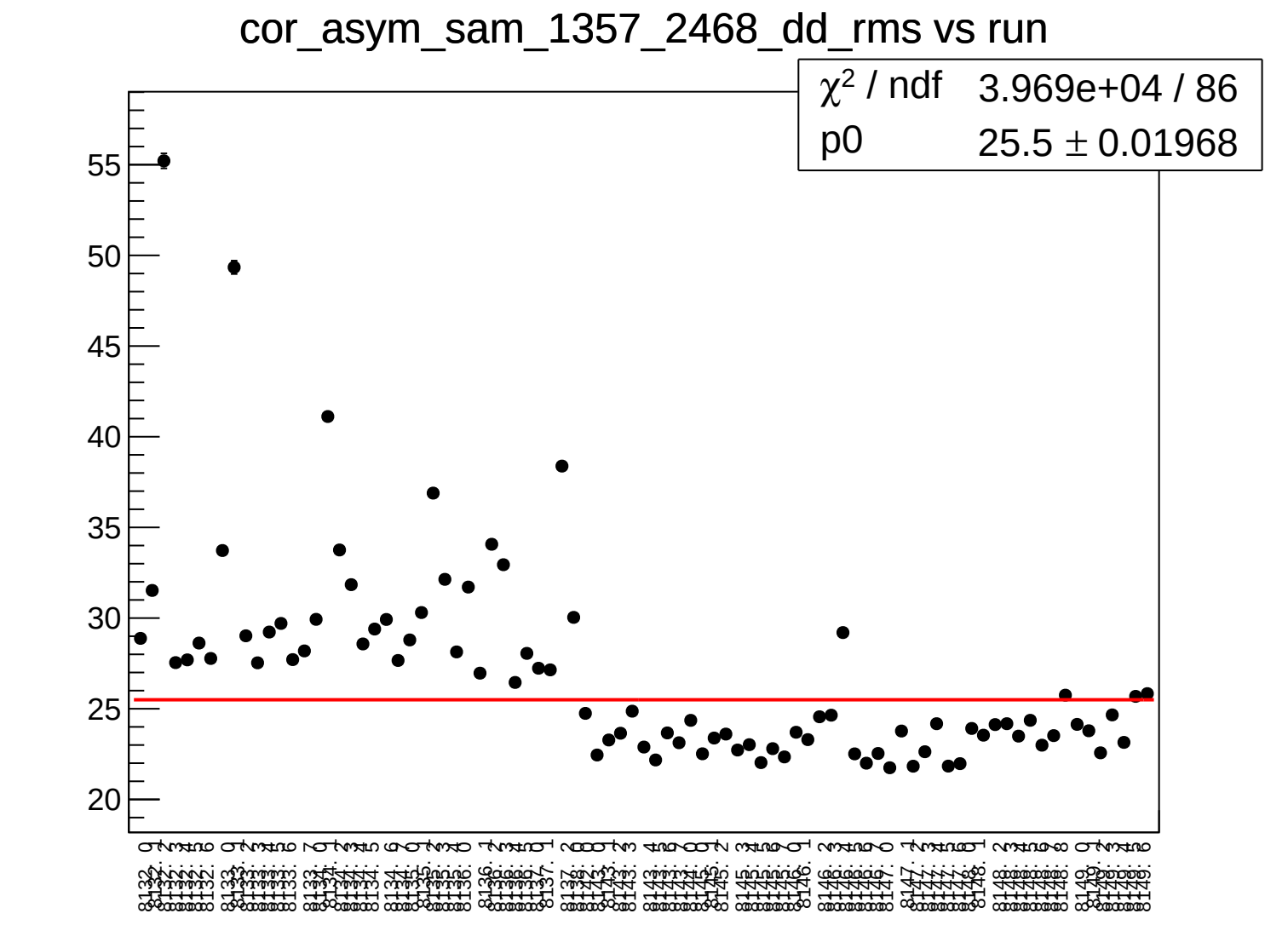

asym_sam_1357_2468_dd_reg_correction_mean vs run
χ² / ndf 88.68 / 86
p0 500 ± 478.3
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 87
Mean −297.4
Std Dev 0
2
1
0
−1
−2

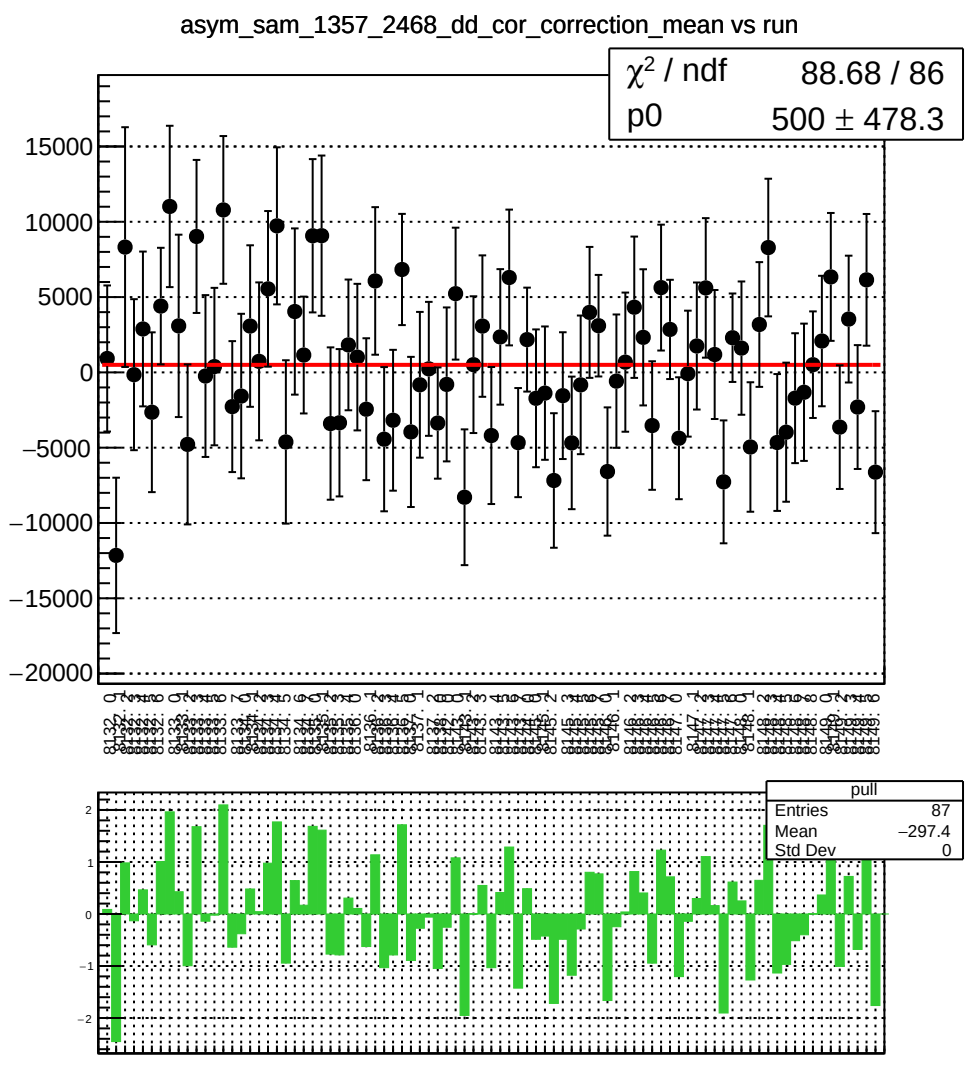

pull1D
Entries 87
Mean 0.009534
Std Dev 1.01
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

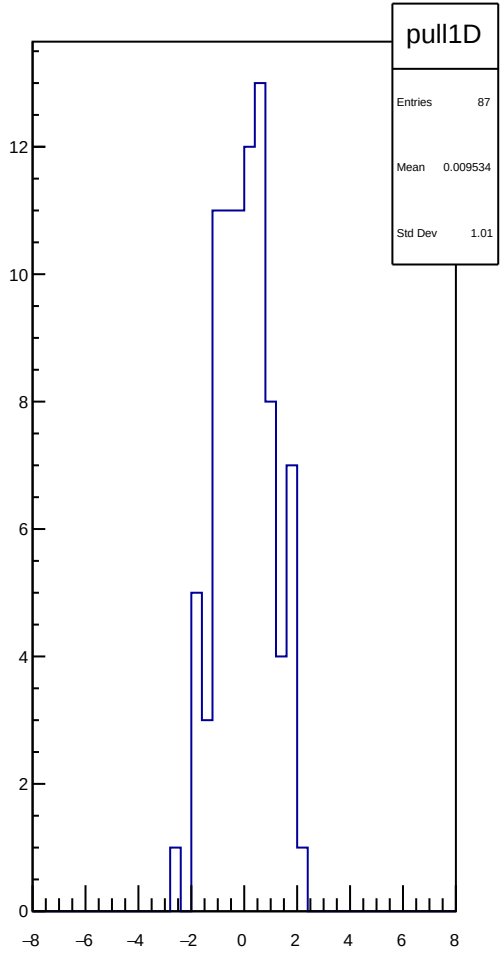

asym_sam_1357_2468_dd_reg_correction_rms vs run
χ² / ndf 1.582e+04 / 86
p0 441.4 ± 0.3382
750
700
650
600
550
500
450
400
350

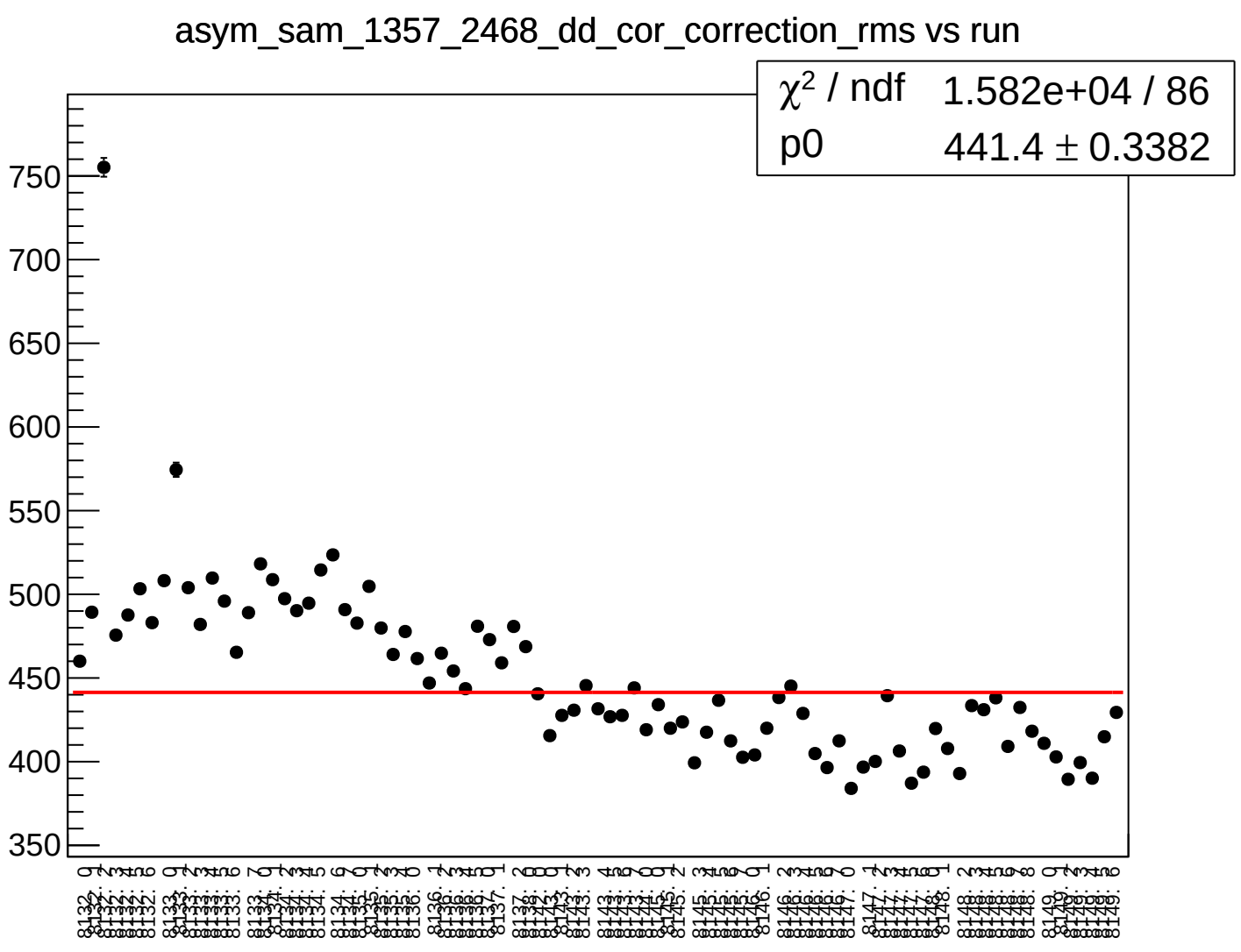

cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 99.56 / 86
p0 9.695 ± 27.82
1000
500
0
−500
−1000
pull
Entries 87
Mean 255.6
Std Dev 0
2
1
0
−1
−2
−3

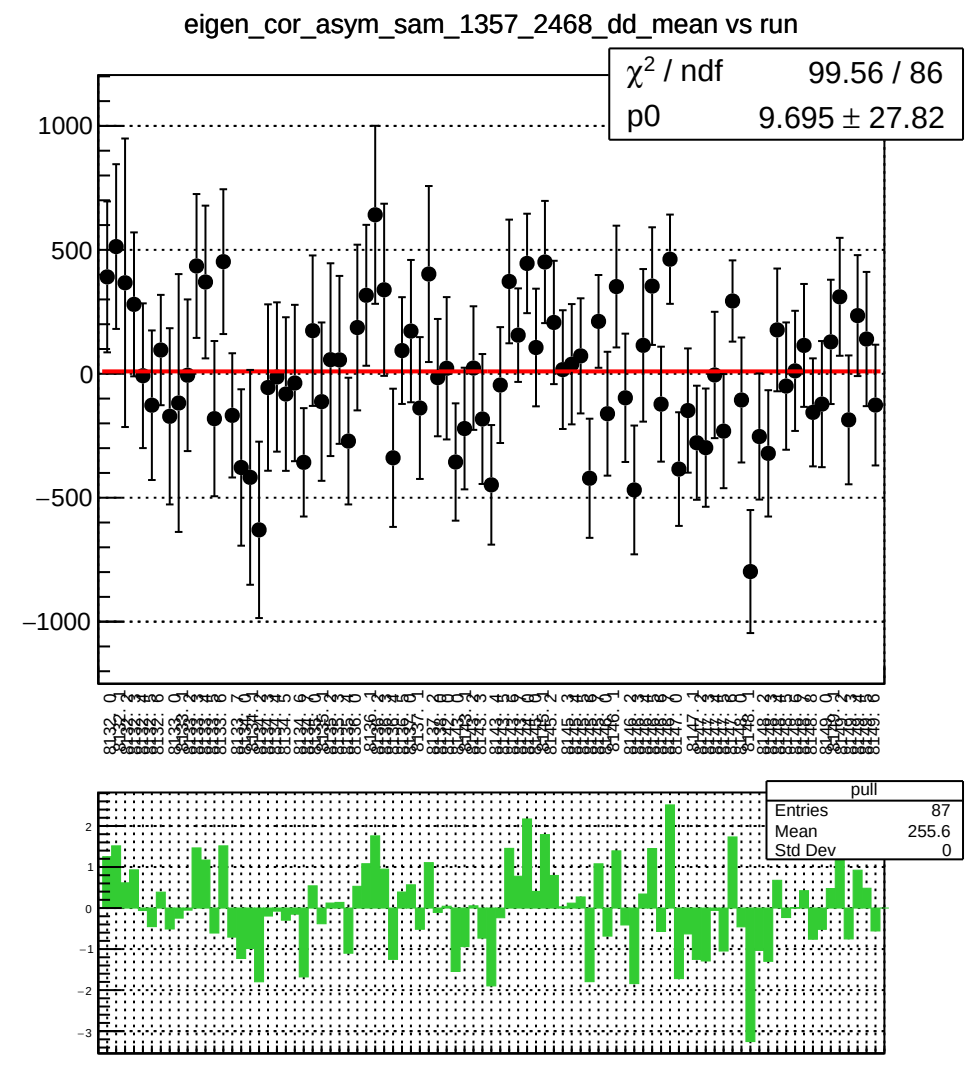

pull1D
Entries 87
Mean −0.01384
Std Dev 1.07
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

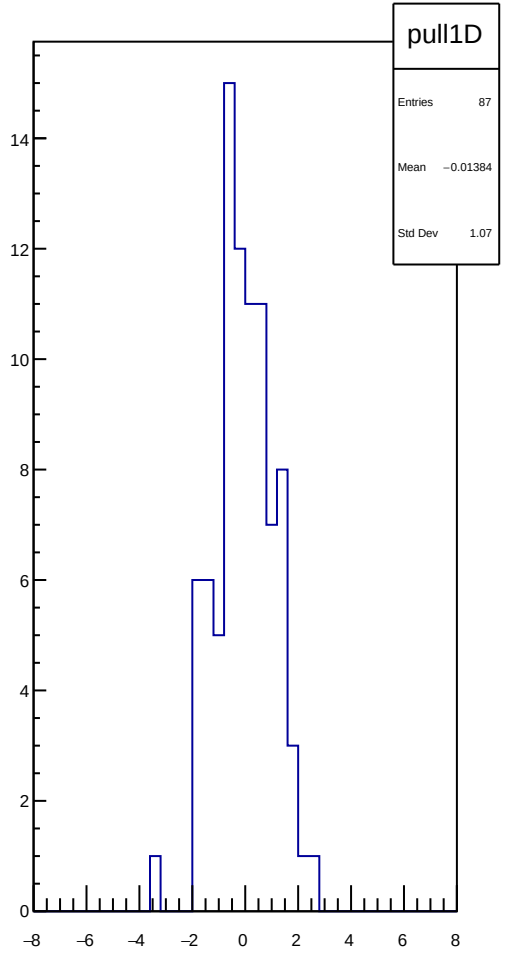

cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 3.969e+04 / 86
p0 25.5 ± 0.01968
55
50
45
40
35
30
25
20

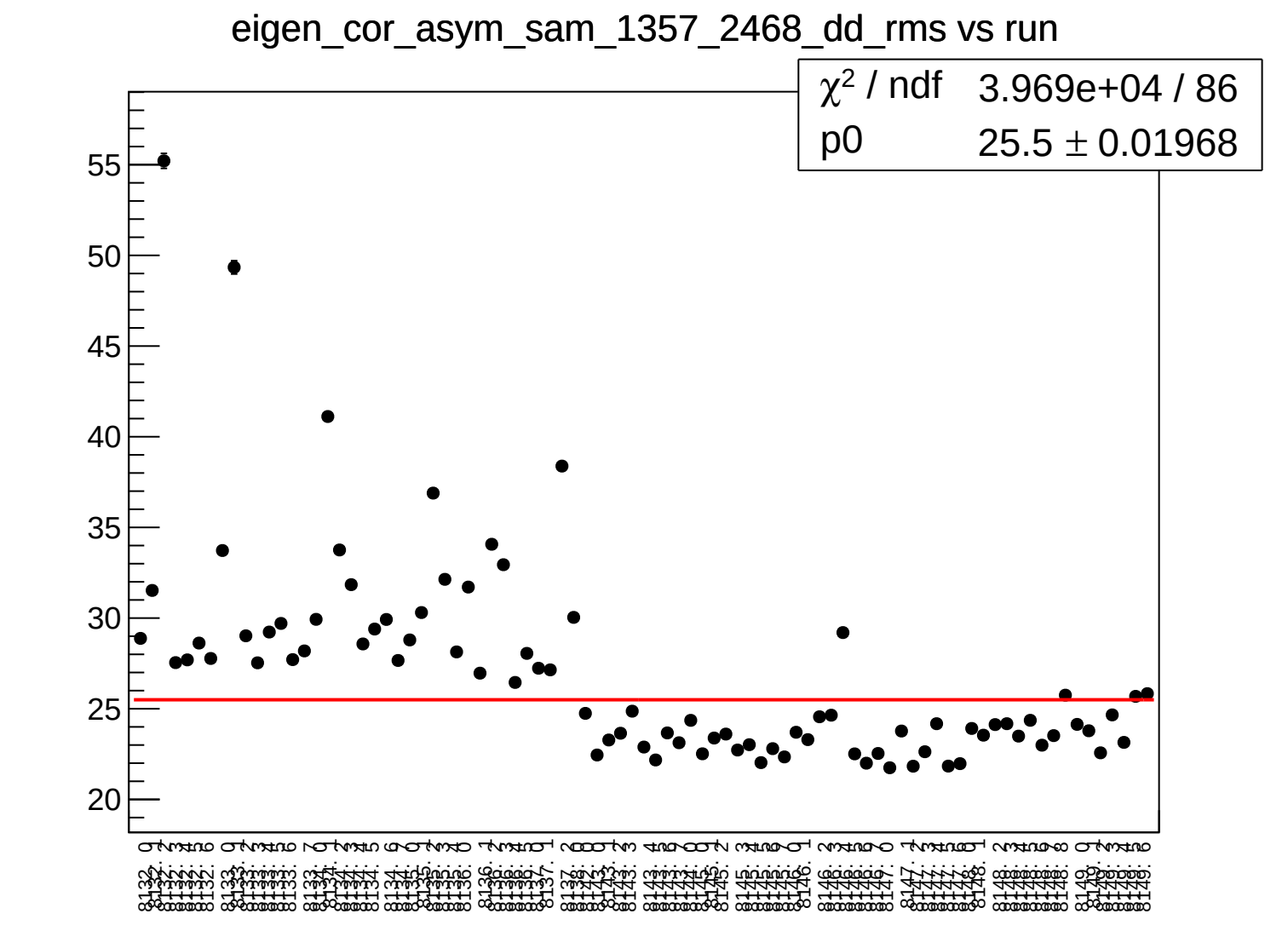

asym_sam_1357_2468_dd_cor_correction_mean vs run
χ² / ndf 88.68 / 86
p0 500 ± 478.3
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 87
Mean −297.4
Std Dev 0
2
1
0
−1
−2

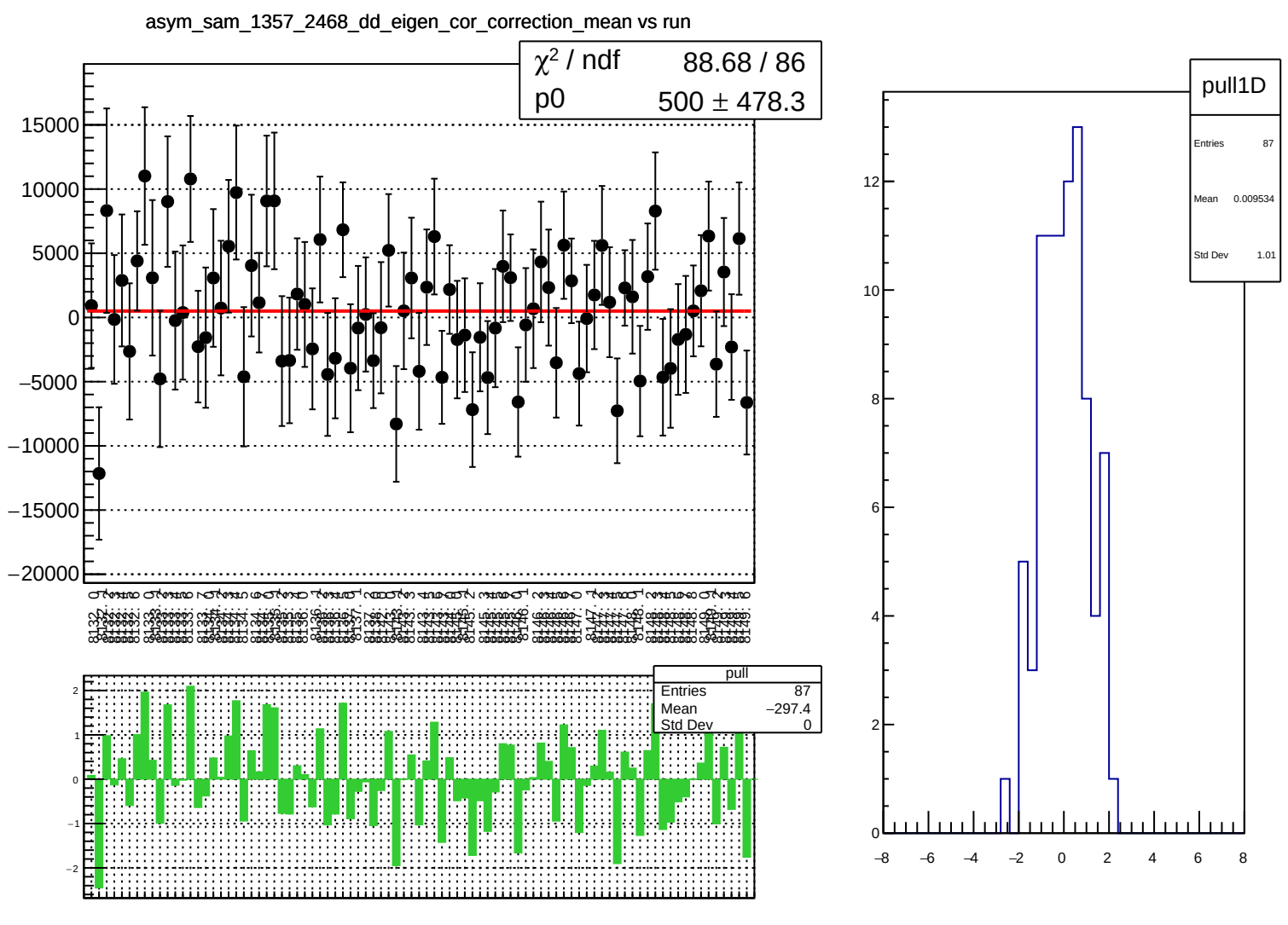

pull1D
Entries 87
Mean 0.009534
Std Dev 1.01
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

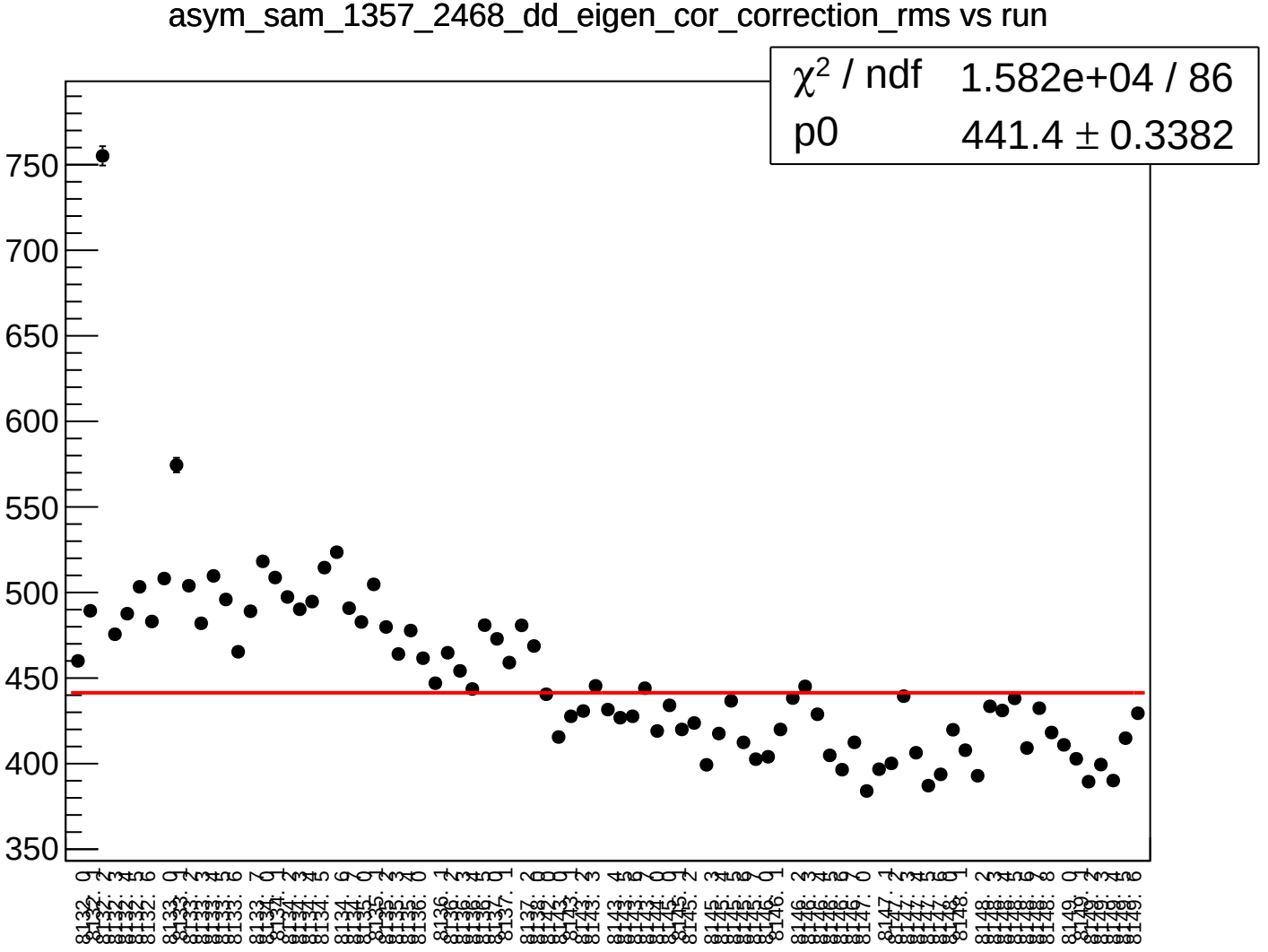

asym_sam_1357_2468_dd_cor_correction_rms vs run
χ² / ndf 1.582e+04 / 86
p0 441.4 ± 0.3382
750
700
650
600
550
500
450
400
350

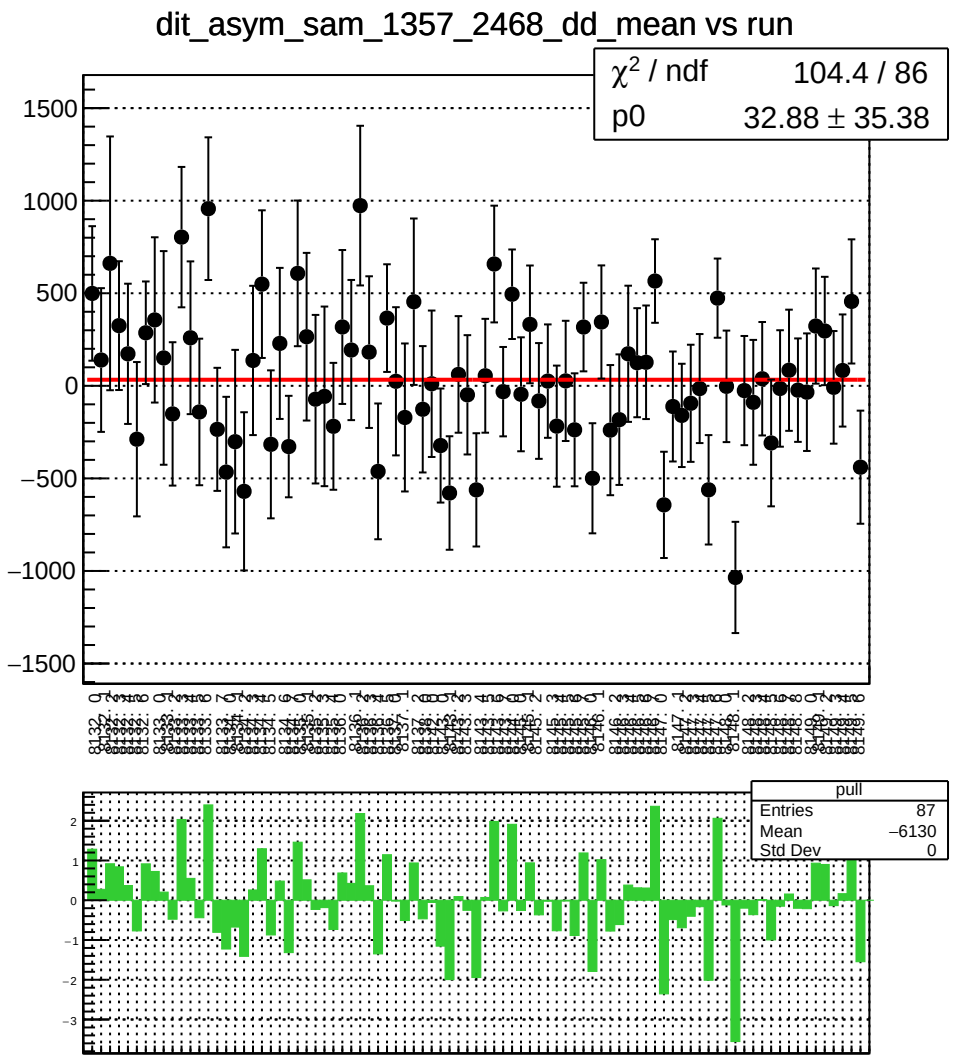

eigen_cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 99.56 / 86
p0 9.695 ± 27.82
1000
500
0
−500
−1000
pull
Entries 87
Mean 255.6
Std Dev 0
2
1
0
−1
−2
−3

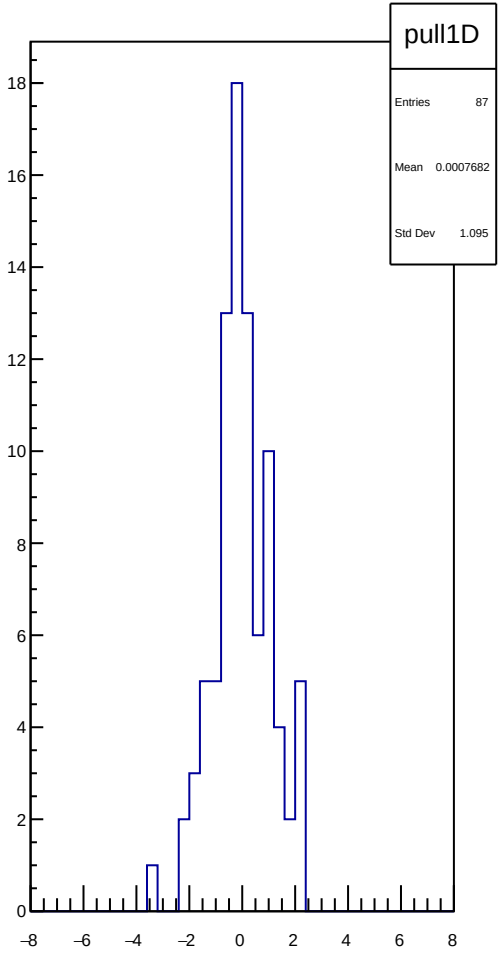

pull1D
Entries 87
Mean −0.01384
Std Dev 1.07
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

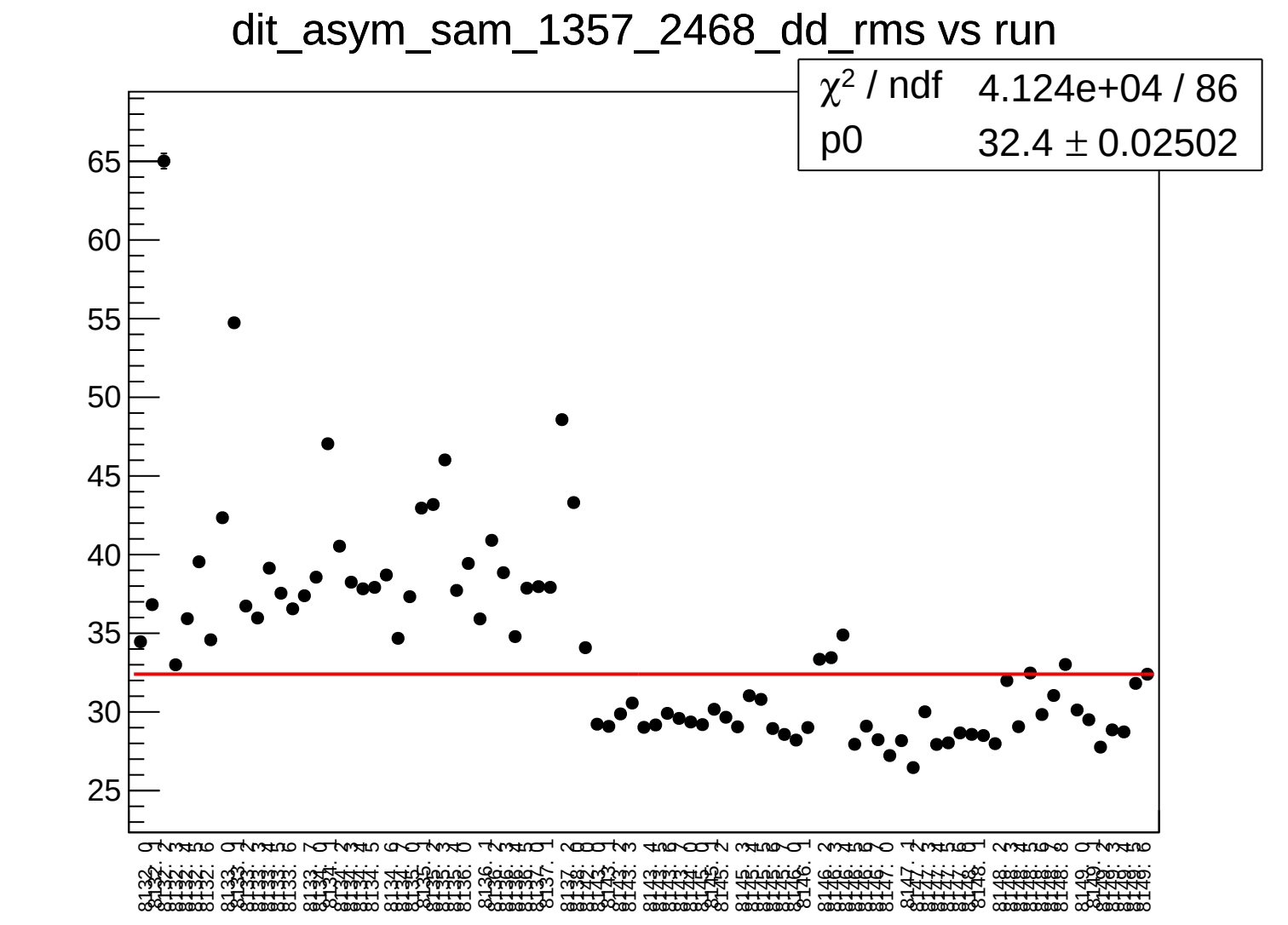

eigen_cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 3.969e+04 / 86
p0 25.5 ± 0.01968
55
50
45
40
35
30
25
20

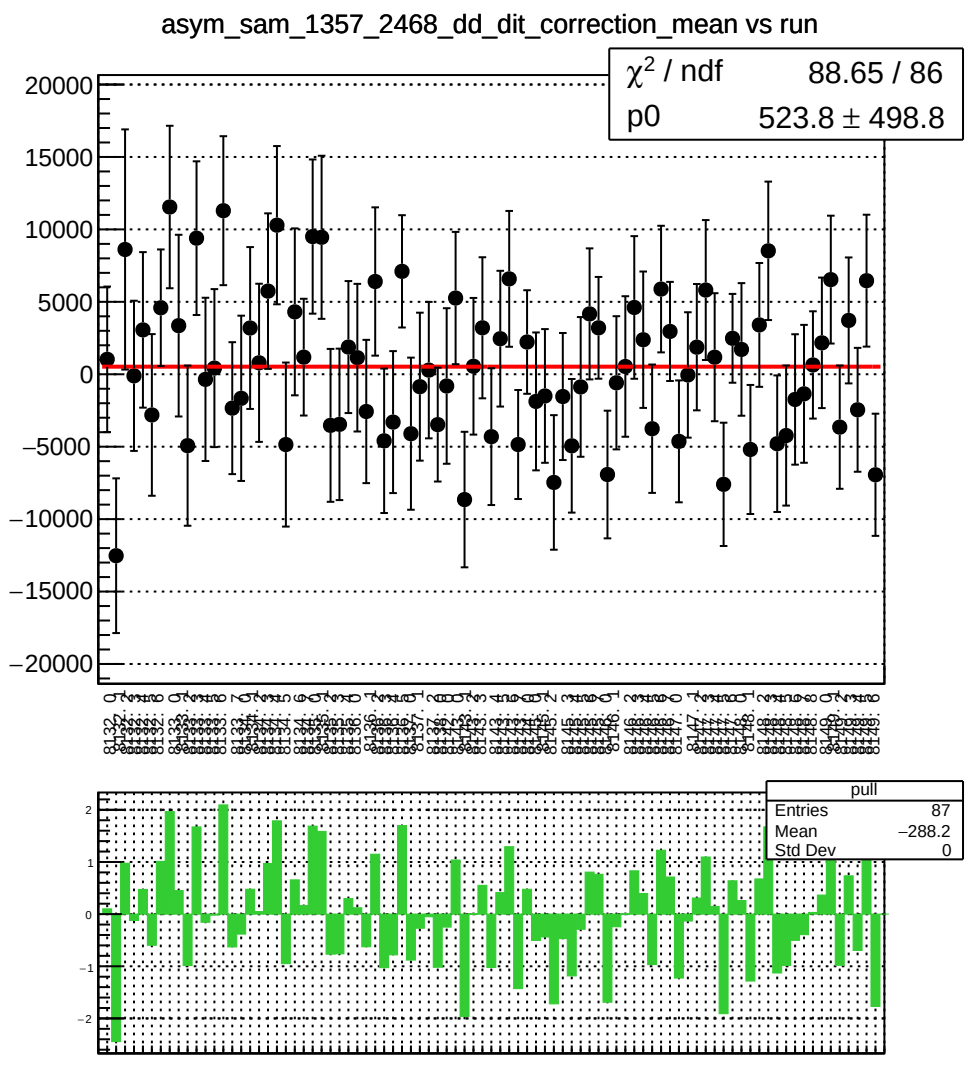

asym_sam_1357_2468_dd_eigen_cor_correction_mean vs run
χ² / ndf 88.68 / 86
p0 500 ± 478.3
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 87
Mean −297.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.009534
Std Dev 1.01
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

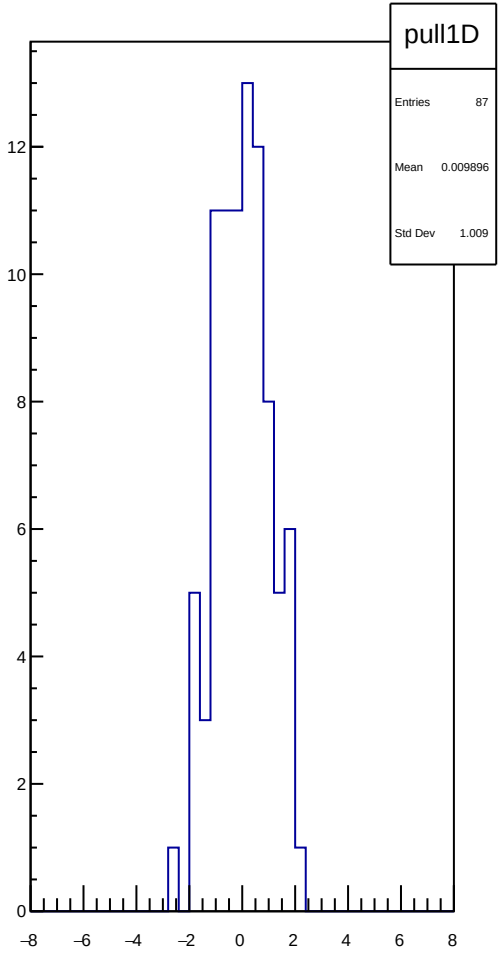

asym_sam_1357_2468_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.582e+04 / 86
p0 441.4 ± 0.3382
750
700
650
600
550
500
450
400
350

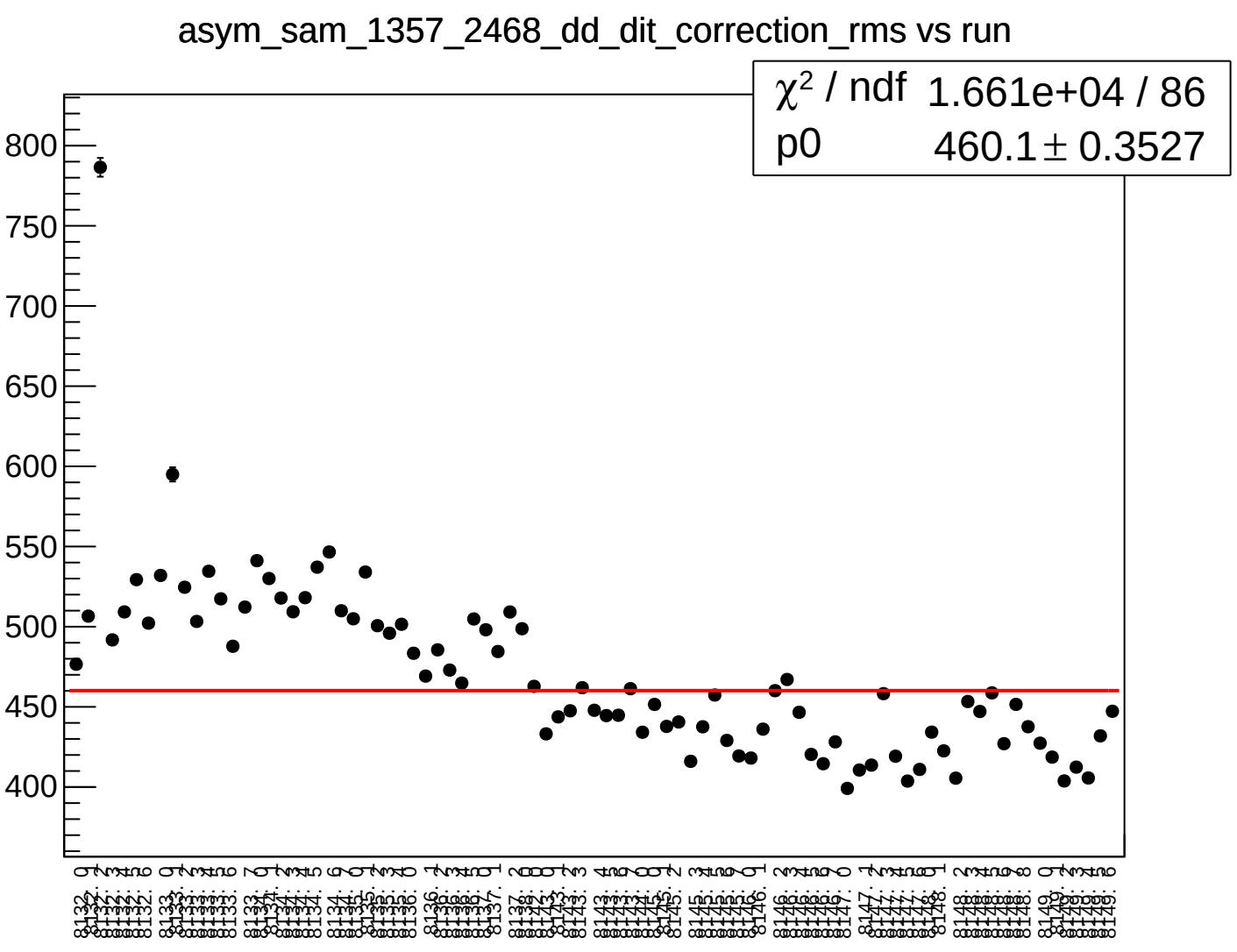

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 104.4 / 86
p0 32.88 ± 35.38
pull
Entries 87
Mean −6130
Std Dev 0

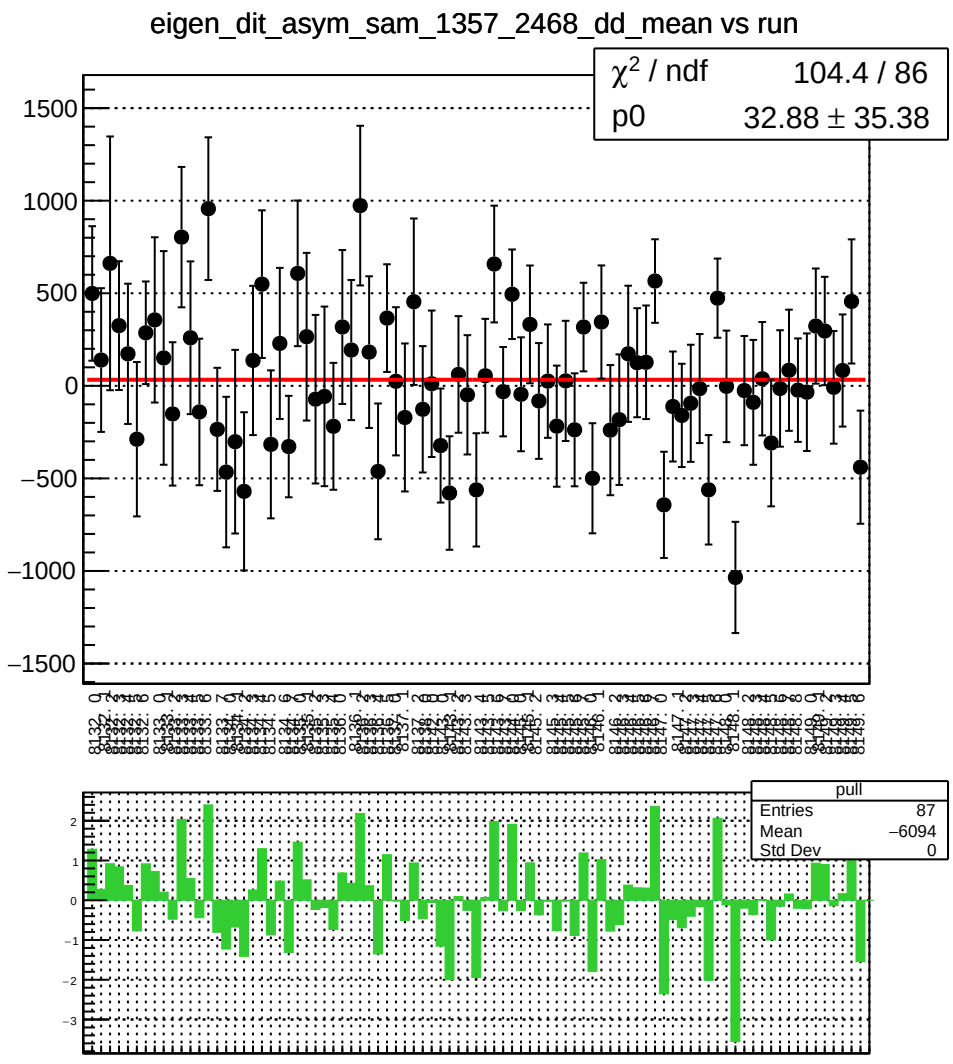

pull1D
Entries 87
Mean 0.0007682
Std Dev 1.095

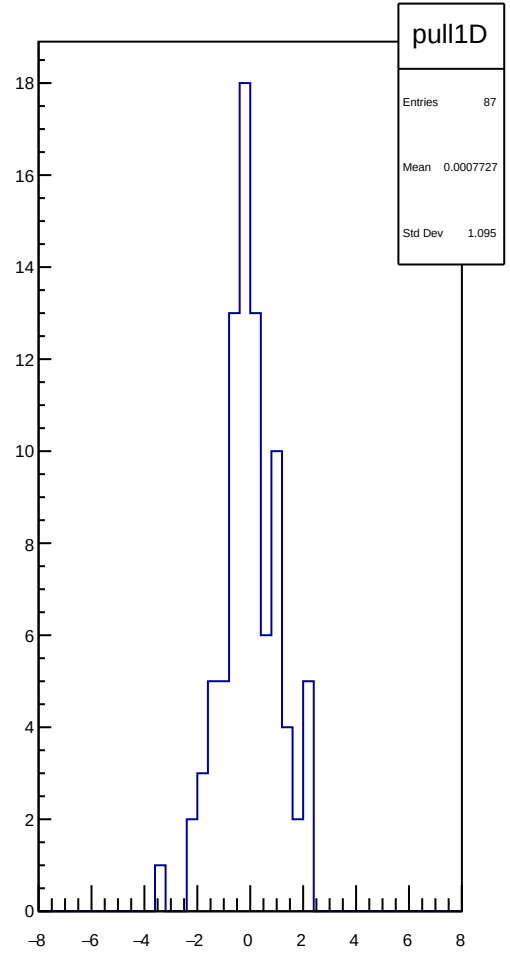

dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 4.124e+04 / 86
p0 32.4 ± 0.02502
65
60
55
50
45
40
35
30
25

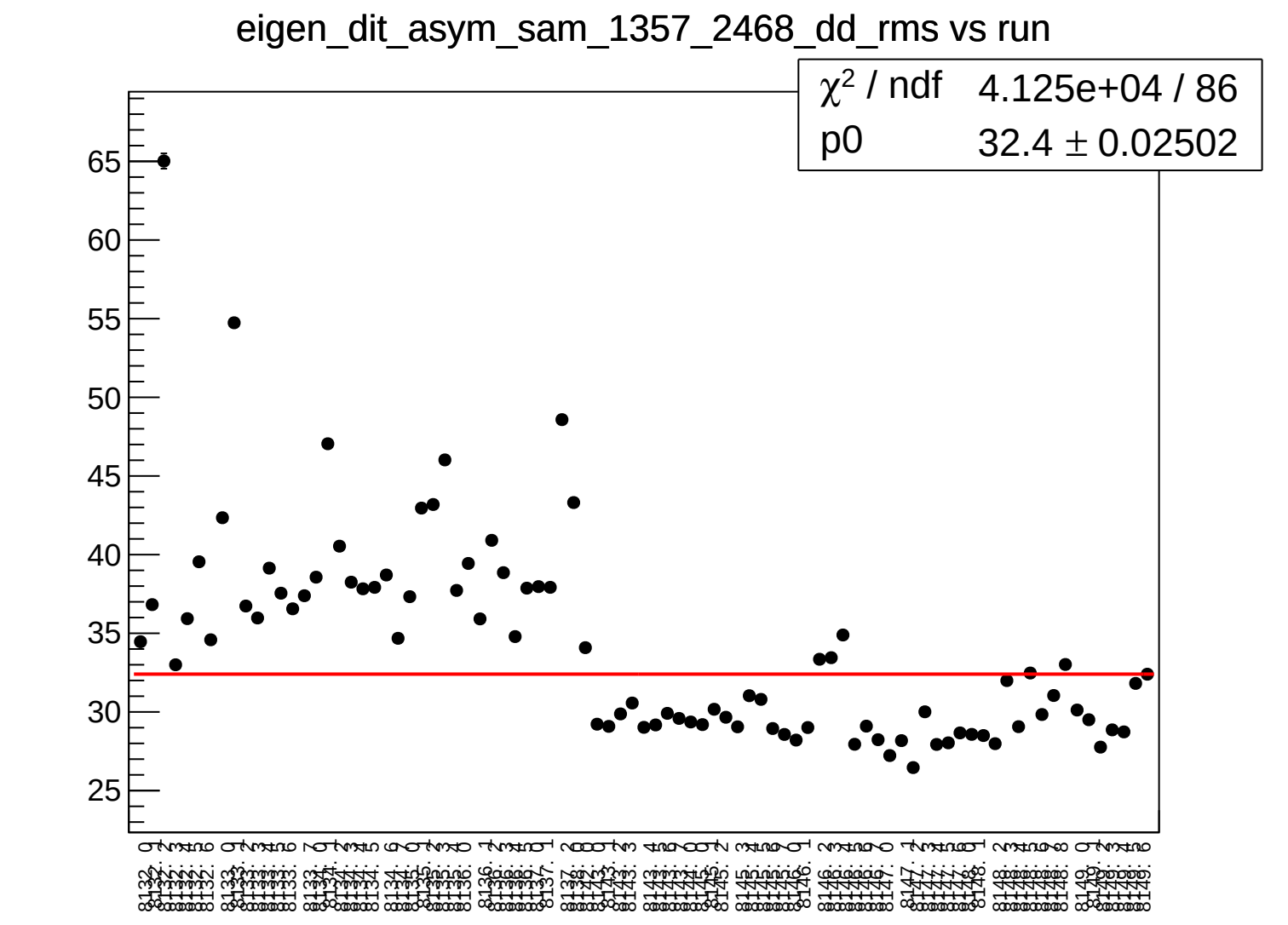

asym_sam_1357_2468_dd_dit_correction_mean vs run
χ² / ndf 88.65 / 86
p0 523.8 ± 498.8
pull
Entries 87
Mean −288.2
Std Dev 0

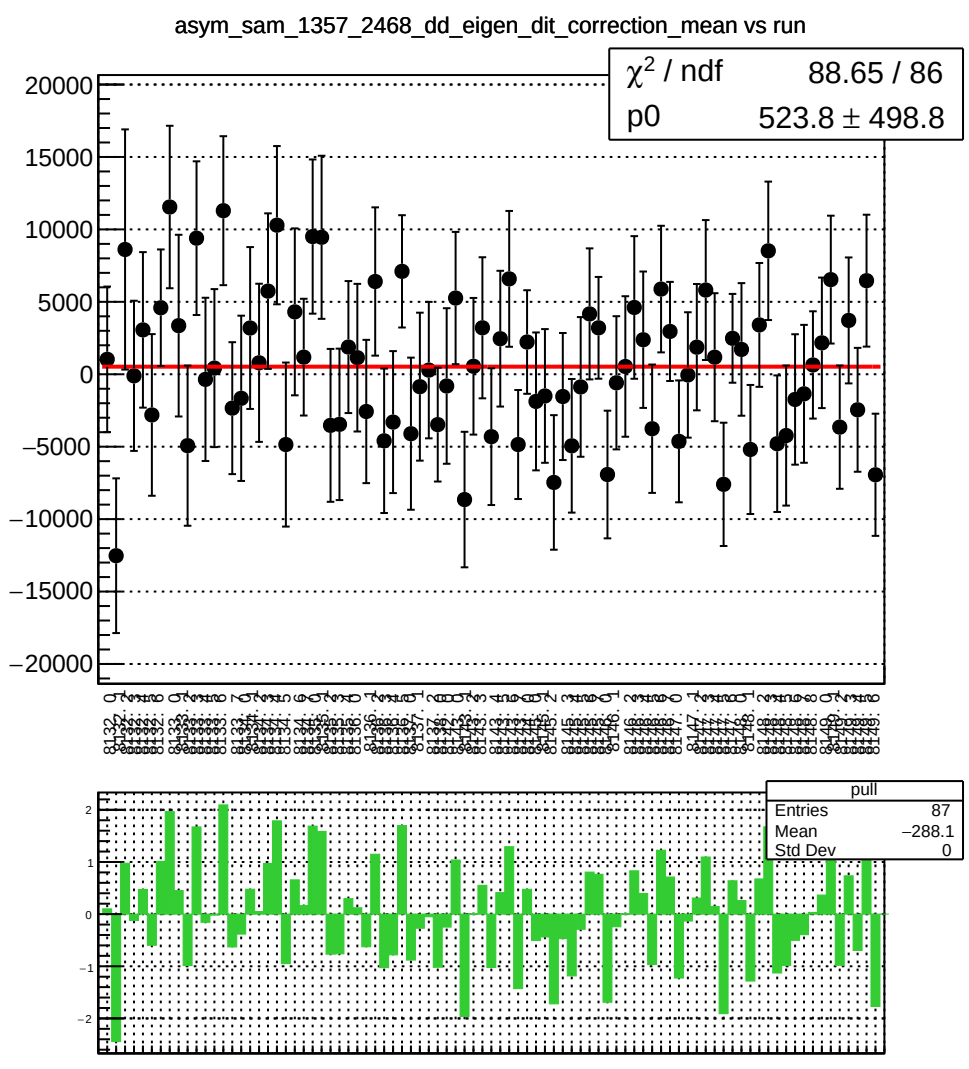

pull1D
Entries 87
Mean 0.009896
Std Dev 1.009

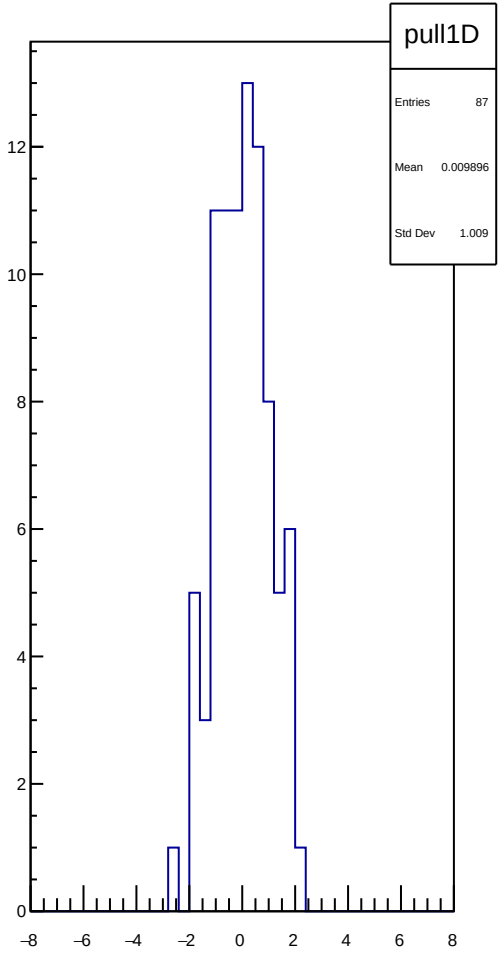

asym_sam_1357_2468_dd_dit_correction_rms vs run
χ² / ndf 1.661e+04 / 86
p0 460.1 ± 0.3527
800
750
700
650
600
550
500
450
400

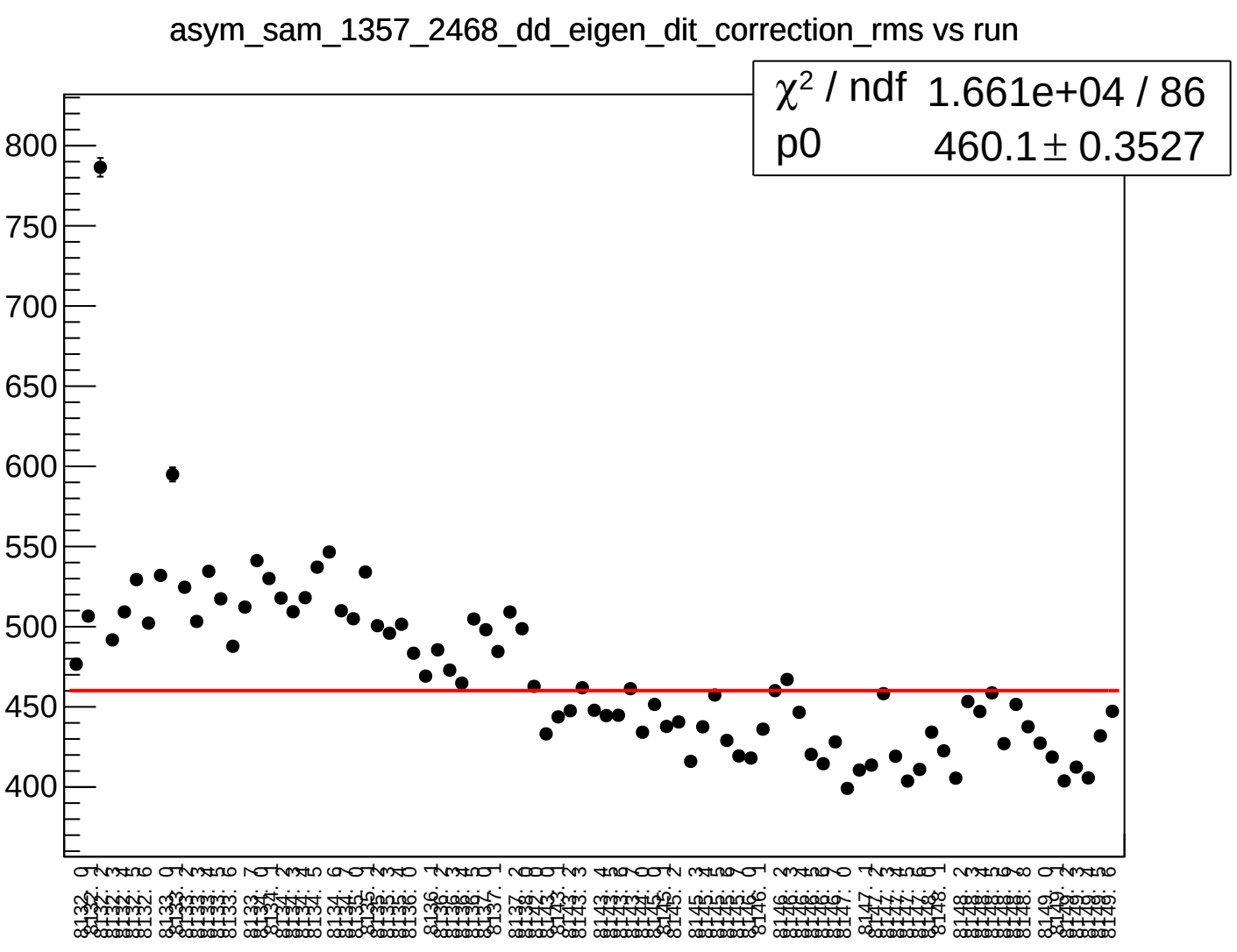

eigen_dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 104.4 / 86
p0 32.88 ± 35.38
pull
Entries 87
Mean −6094
Std Dev 0

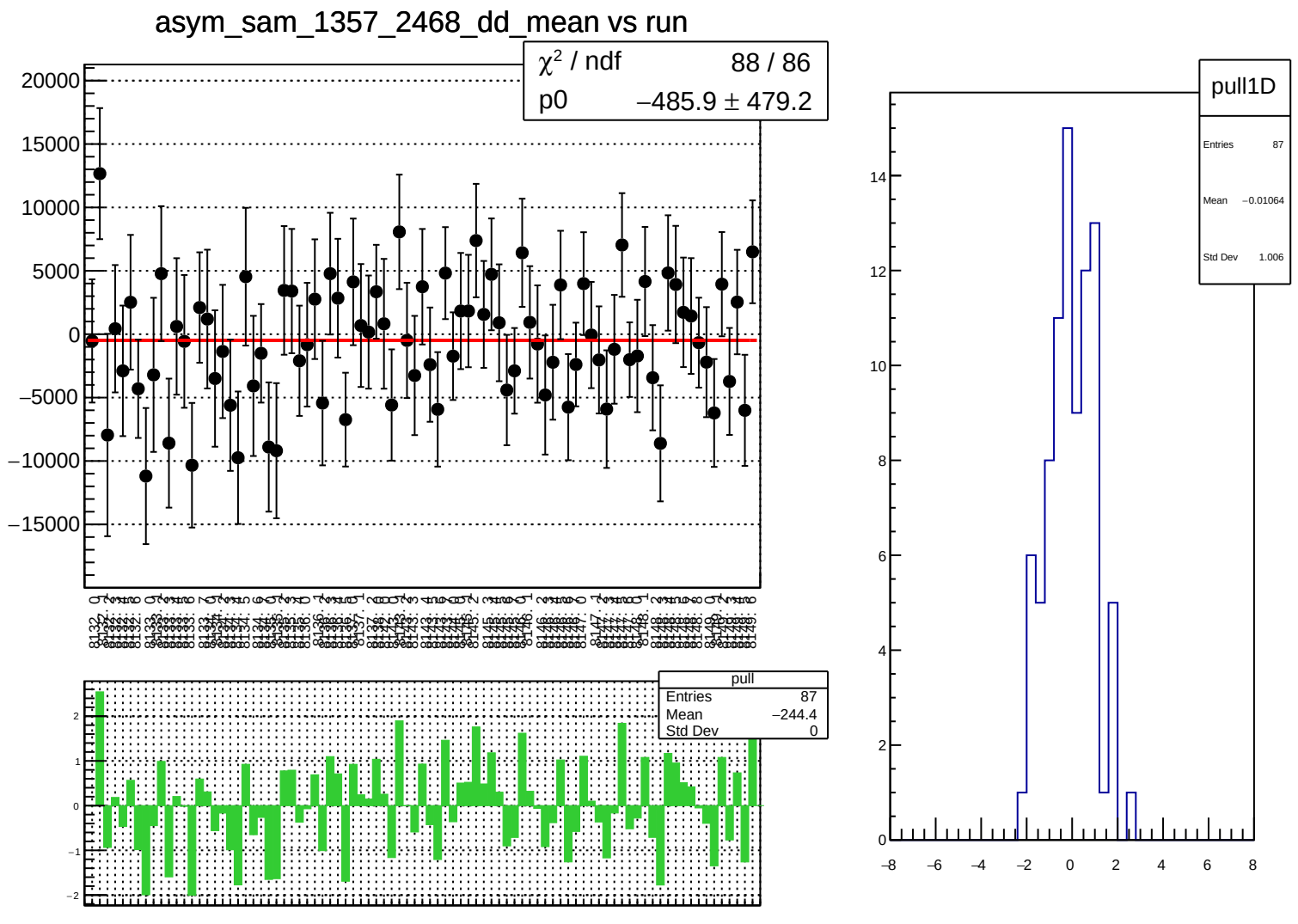

pull1D
Entries 87
Mean 0.0007727
Std Dev 1.095

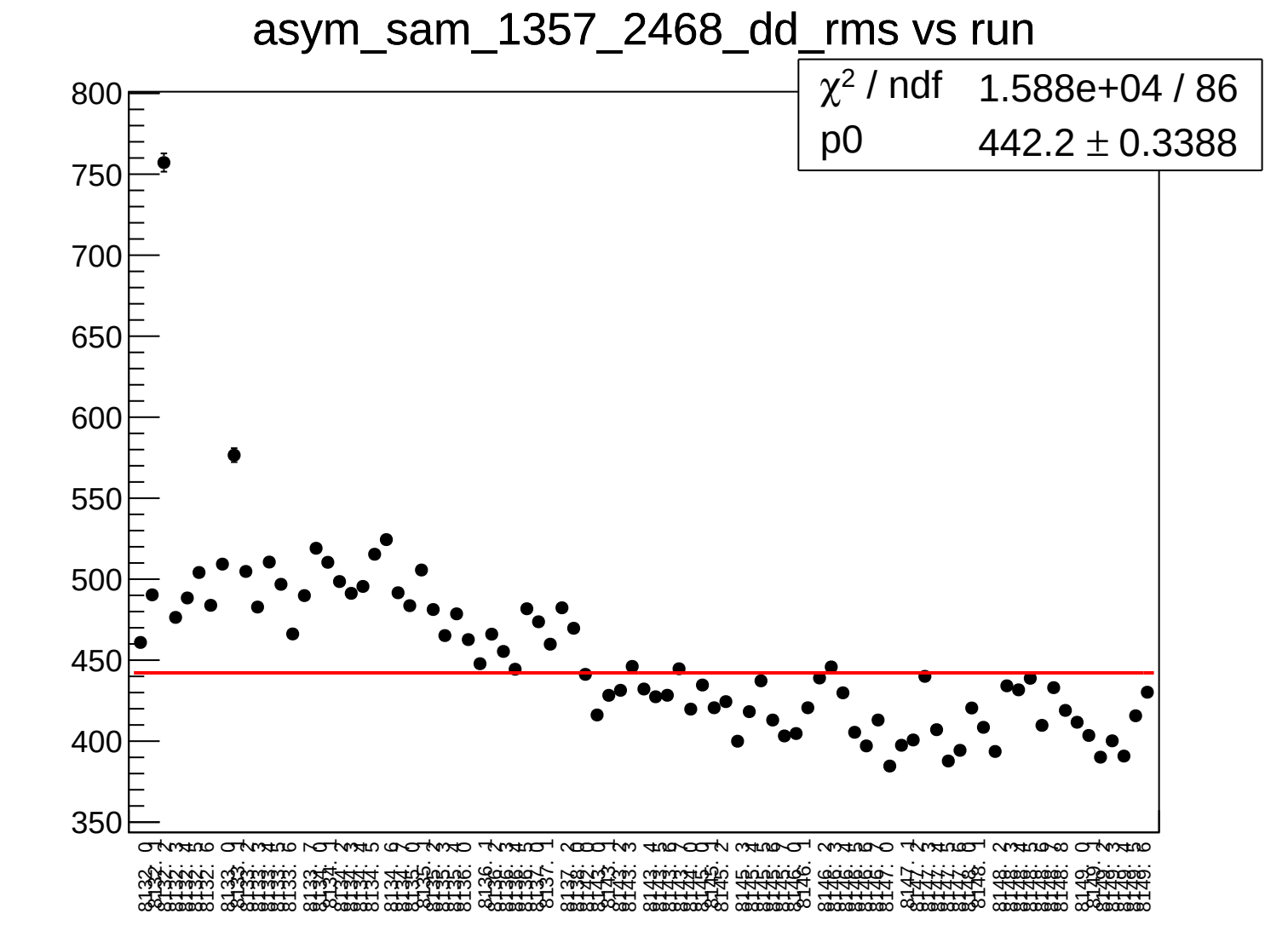

eigen_dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 4.125e+04 / 86
p0 32.4 ± 0.02502
65
60
55
50
45
40
35
30
25

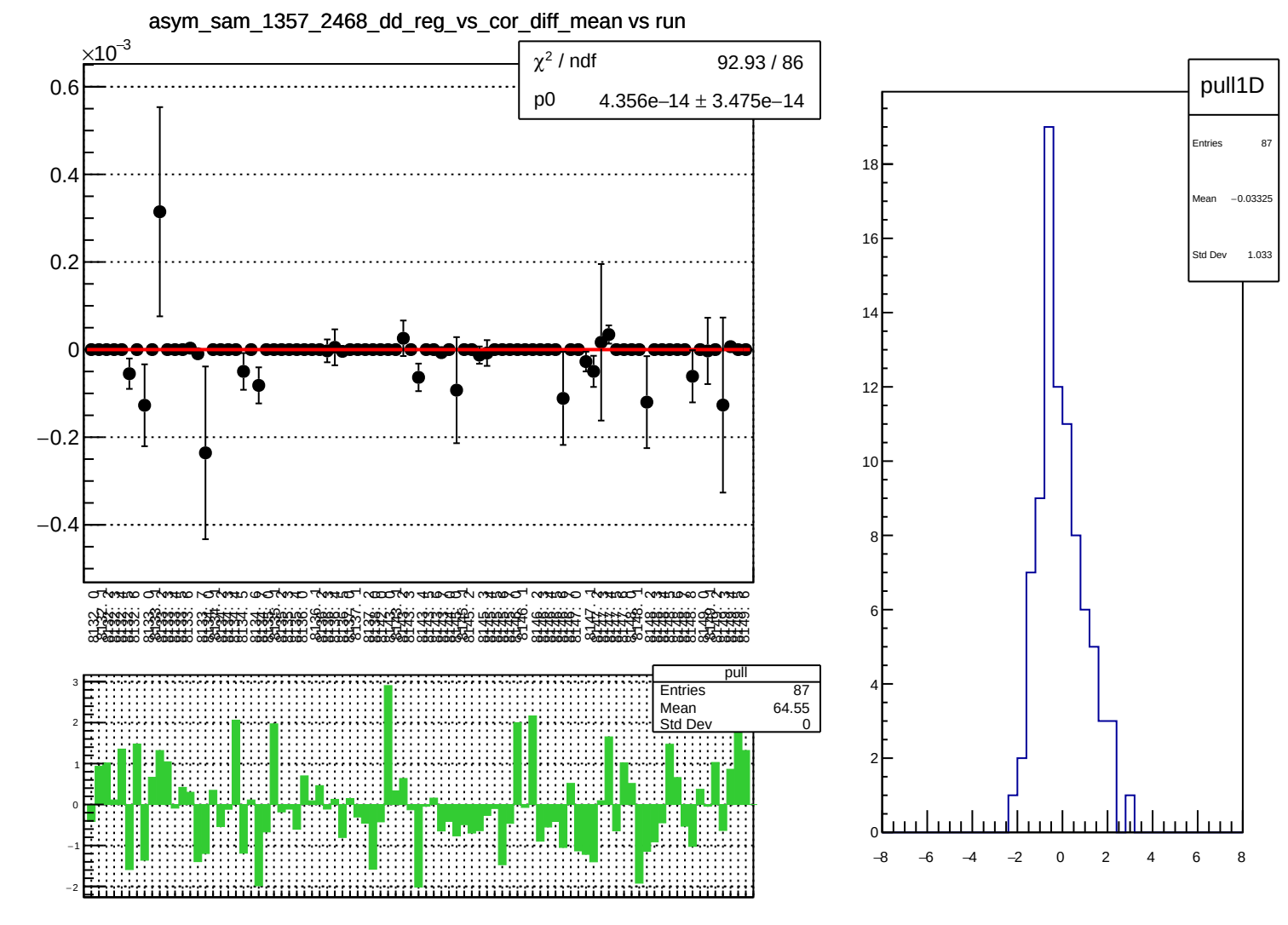

asym_sam_1357_2468_dd_eigen_dit_correction_mean vs run
χ² / ndf 88.65 / 86
p0 523.8 ± 498.8
pull
Entries 87
Mean −288.1
Std Dev 0

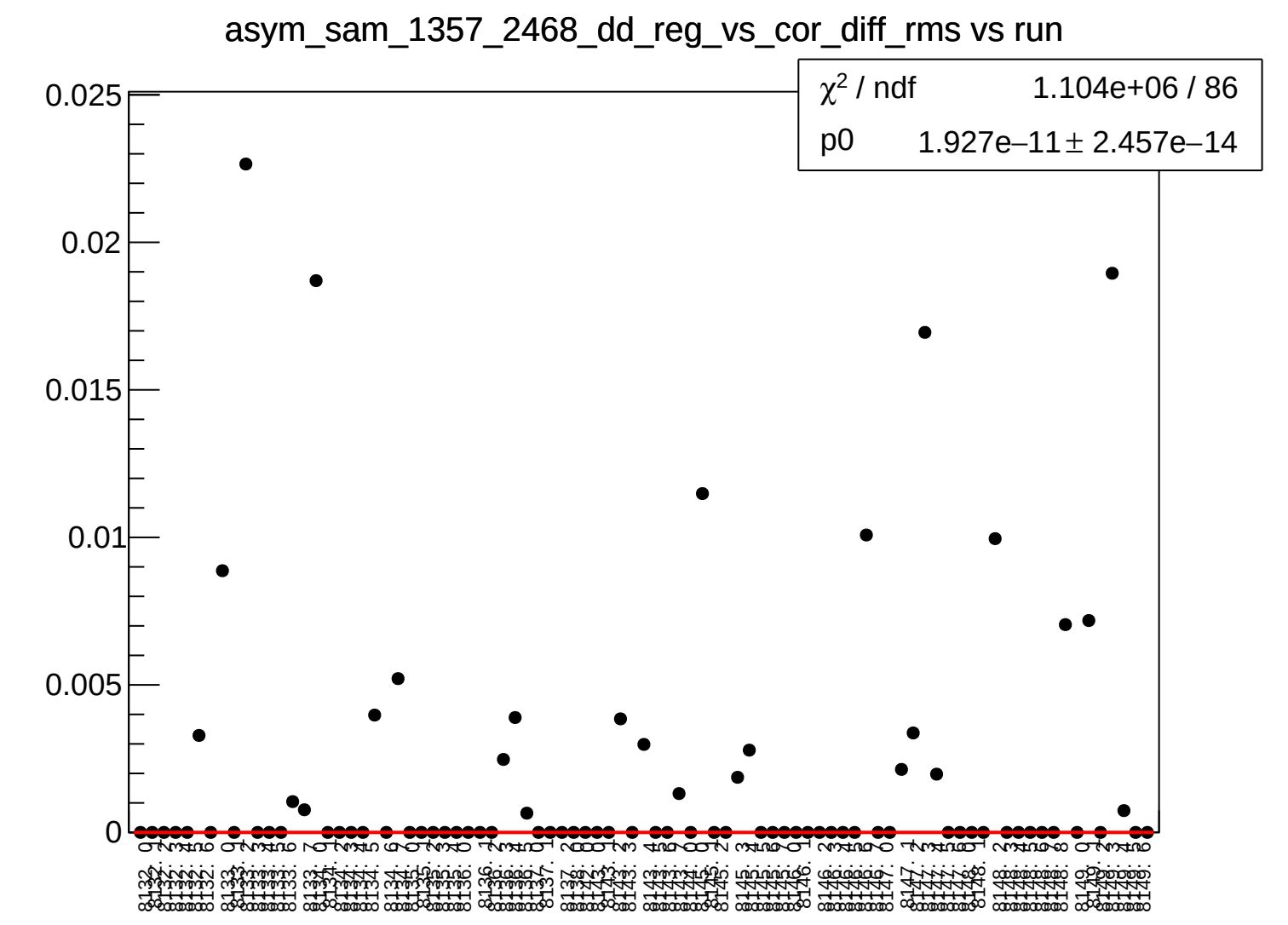

pull1D
Entries 87
Mean 0.009896
Std Dev 1.009

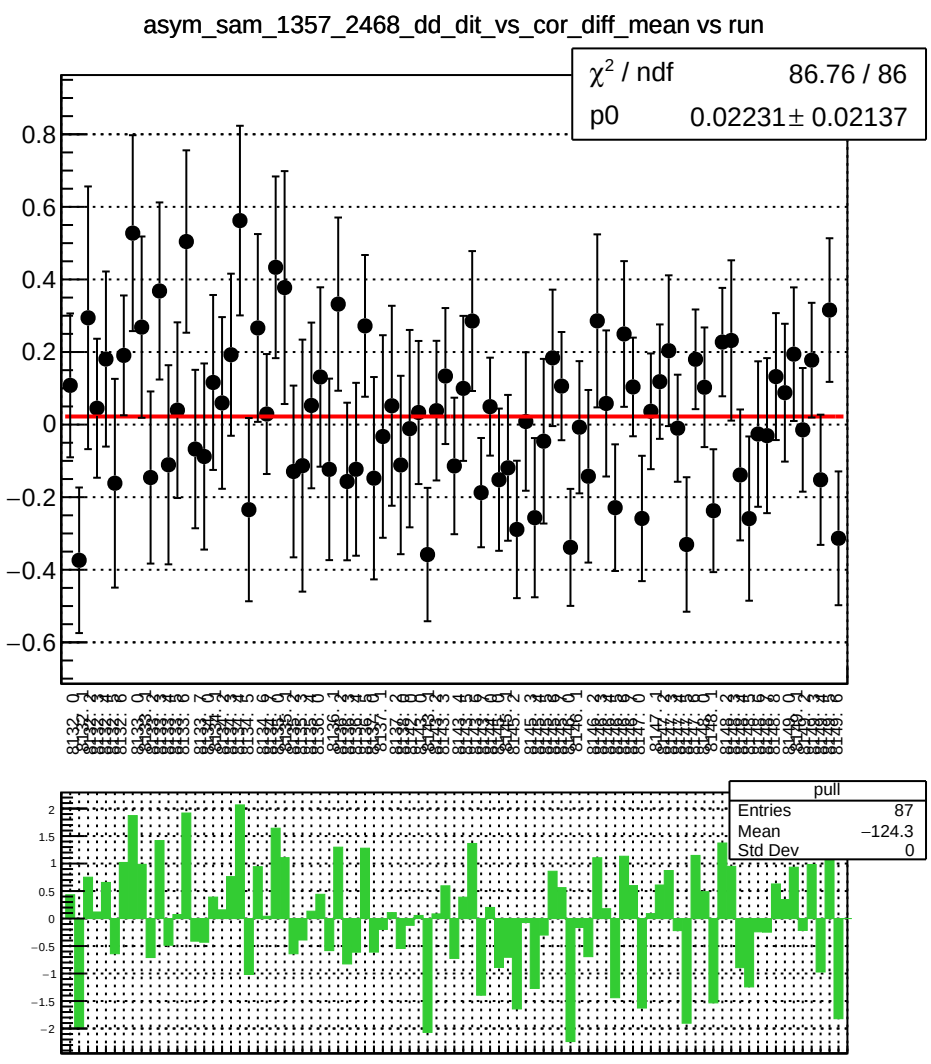

asym_sam_1357_2468_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.661e+04 / 86
p0 460.1 ± 0.3527
800
750
700
650
600
550
500
450
400

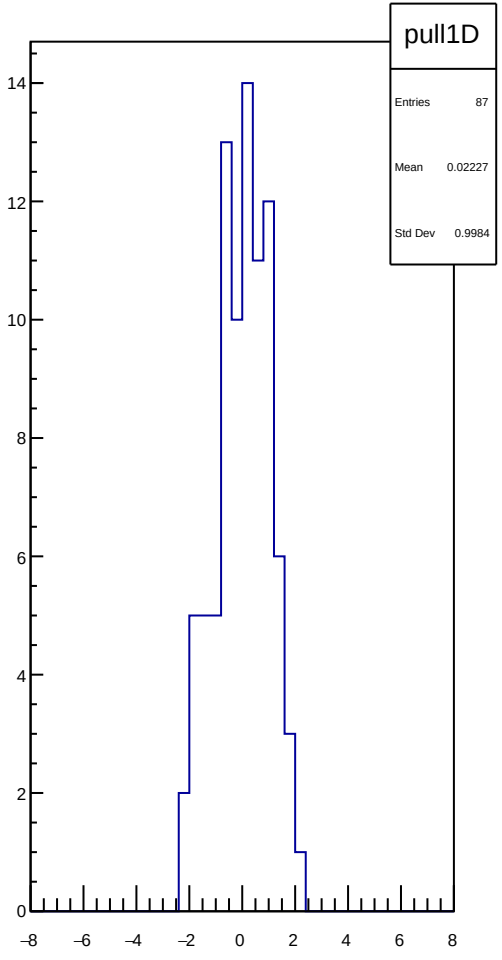

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 88 / 86
p0 −485.9 ± 479.2
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean −244.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.01064
Std Dev 1.006
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

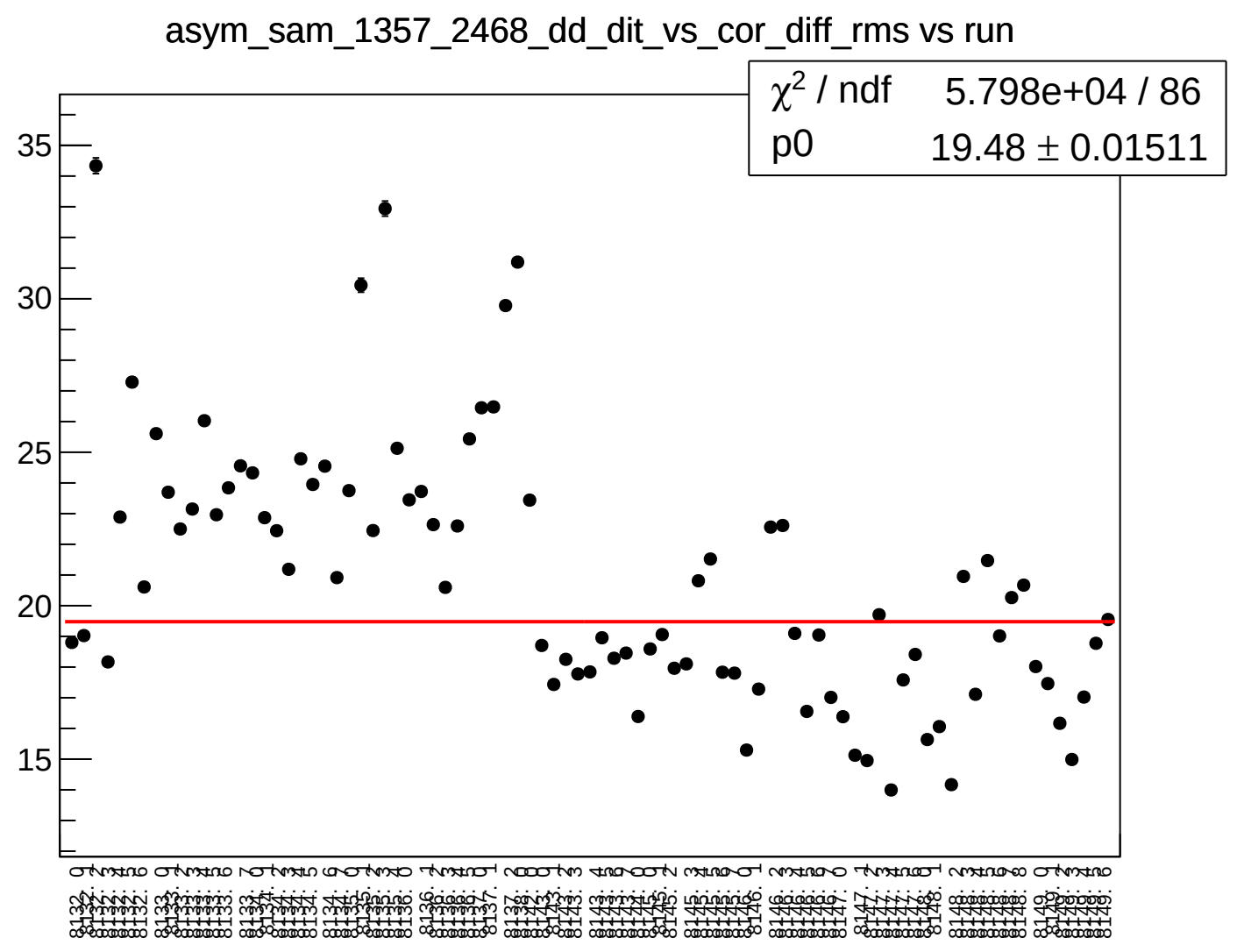

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.588e+04 / 86
p0 442.2 ± 0.3388
800
750
700
650
600
550
500
450
400
350

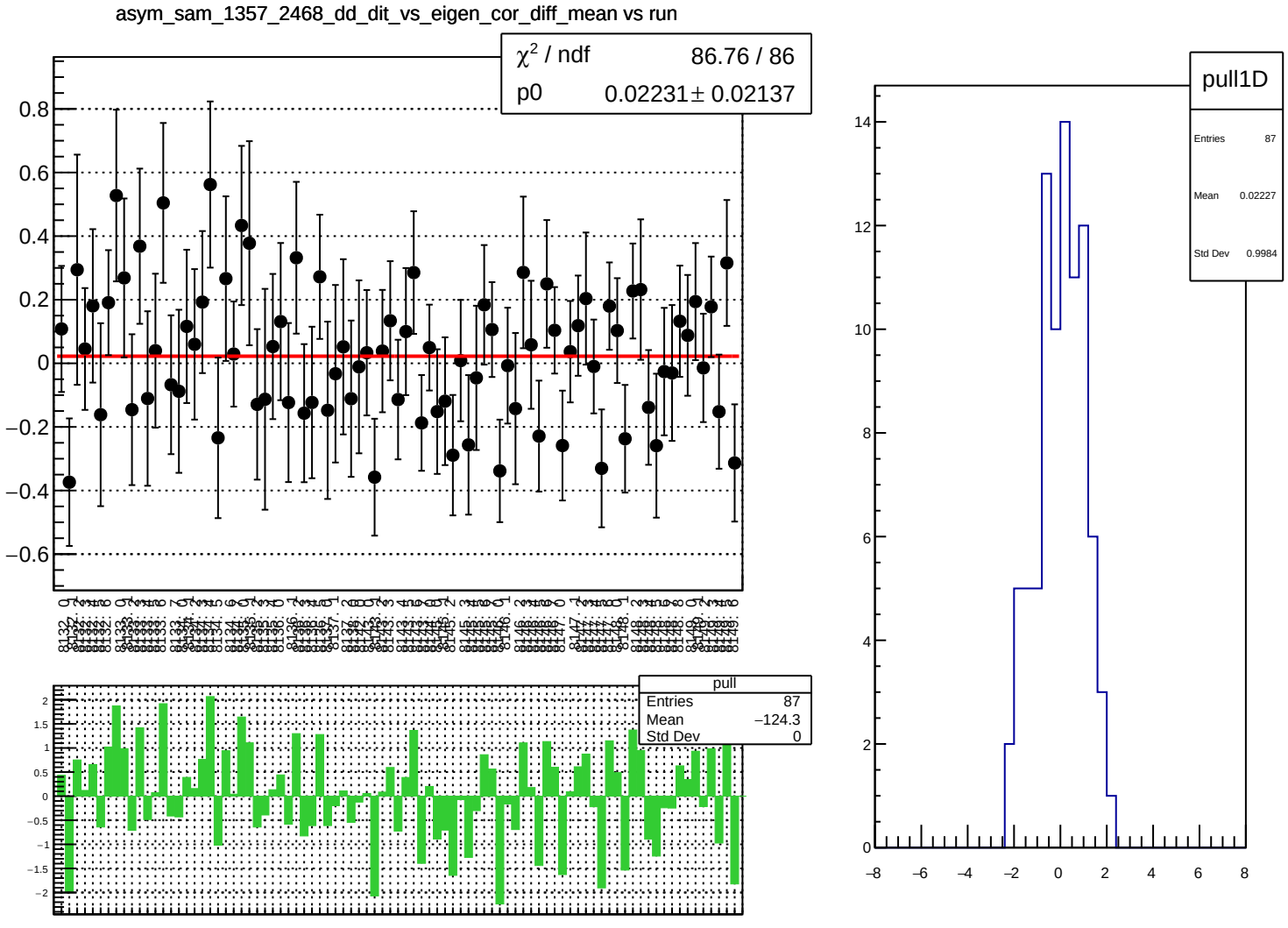

asym_sam_1357_2468_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 92.93 / 86
p0 4.356e−14 ± 3.475e−14
0.6
0.4
0.2
0
−0.2
−0.4
pull
Entries 87
Mean 64.55
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.03325
Std Dev 1.033
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

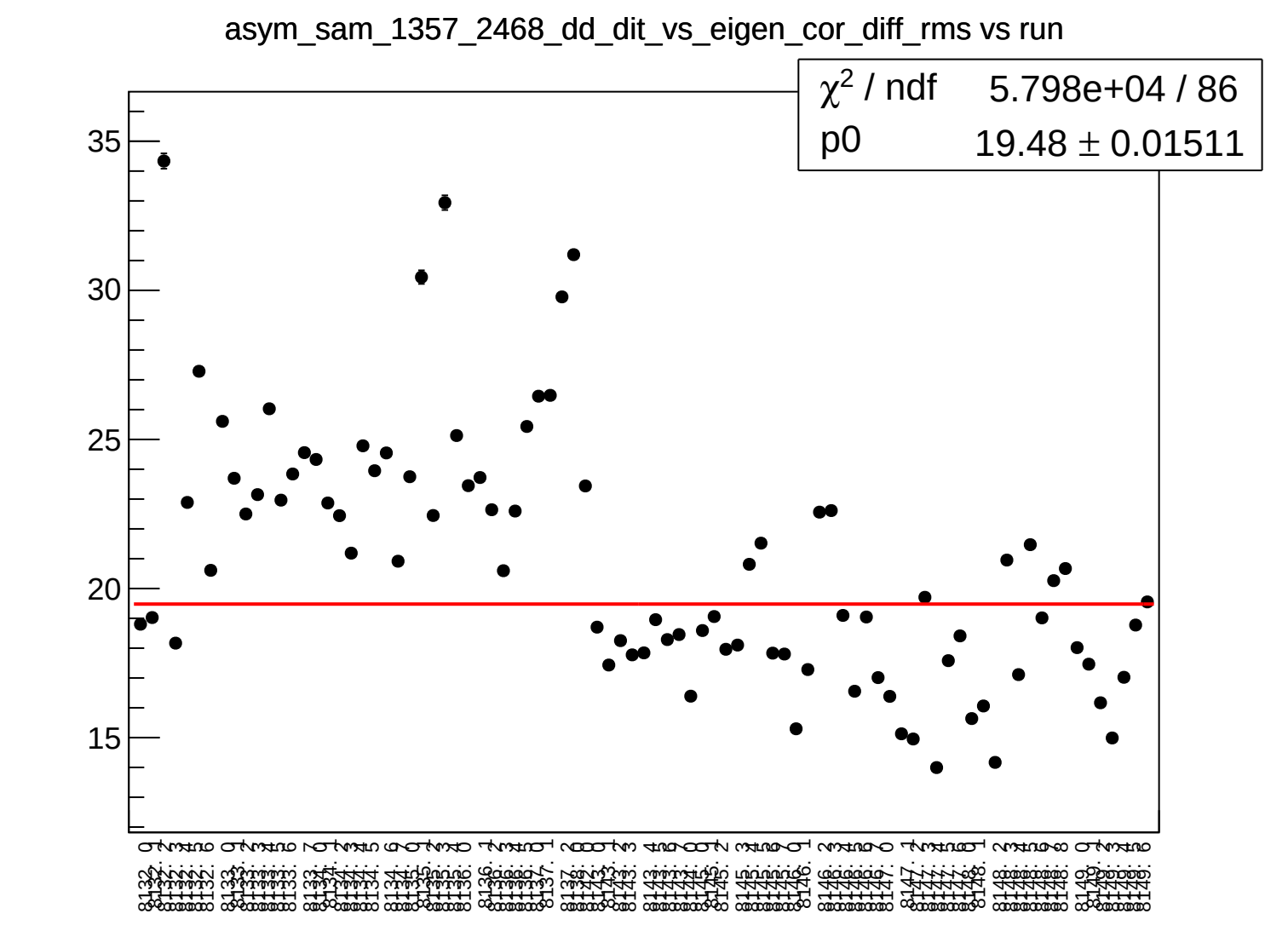

asym_sam_1357_2468_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.104e+06 / 86
p0 1.927e−11 ± 2.457e−14
0.025
0.02
0.015
0.01
0.005
0

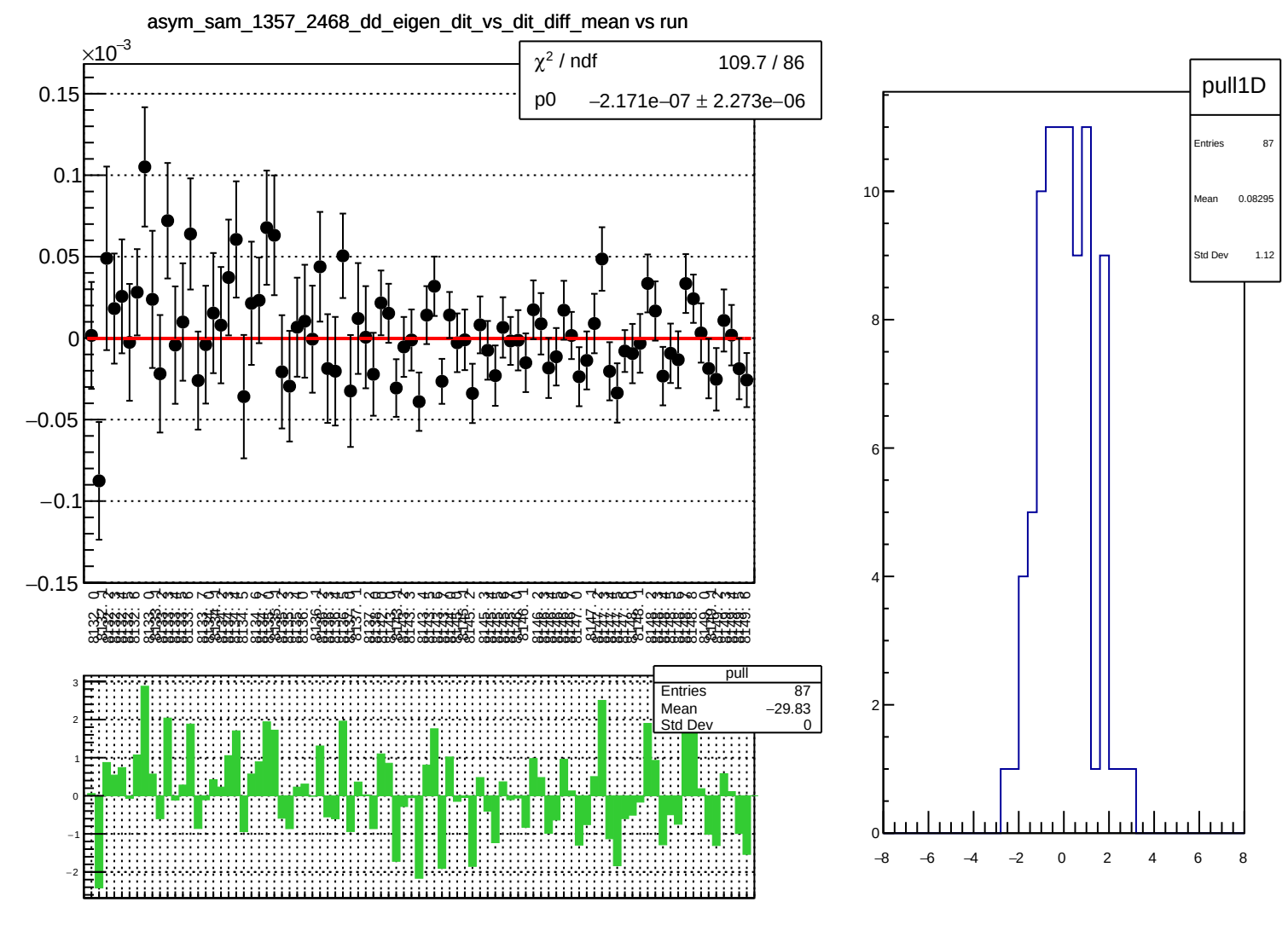

asym_sam_1357_2468_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 86.76 / 86
p0 0.02231 ± 0.02137
pull
Entries 87
Mean −124.3
Std Dev 0

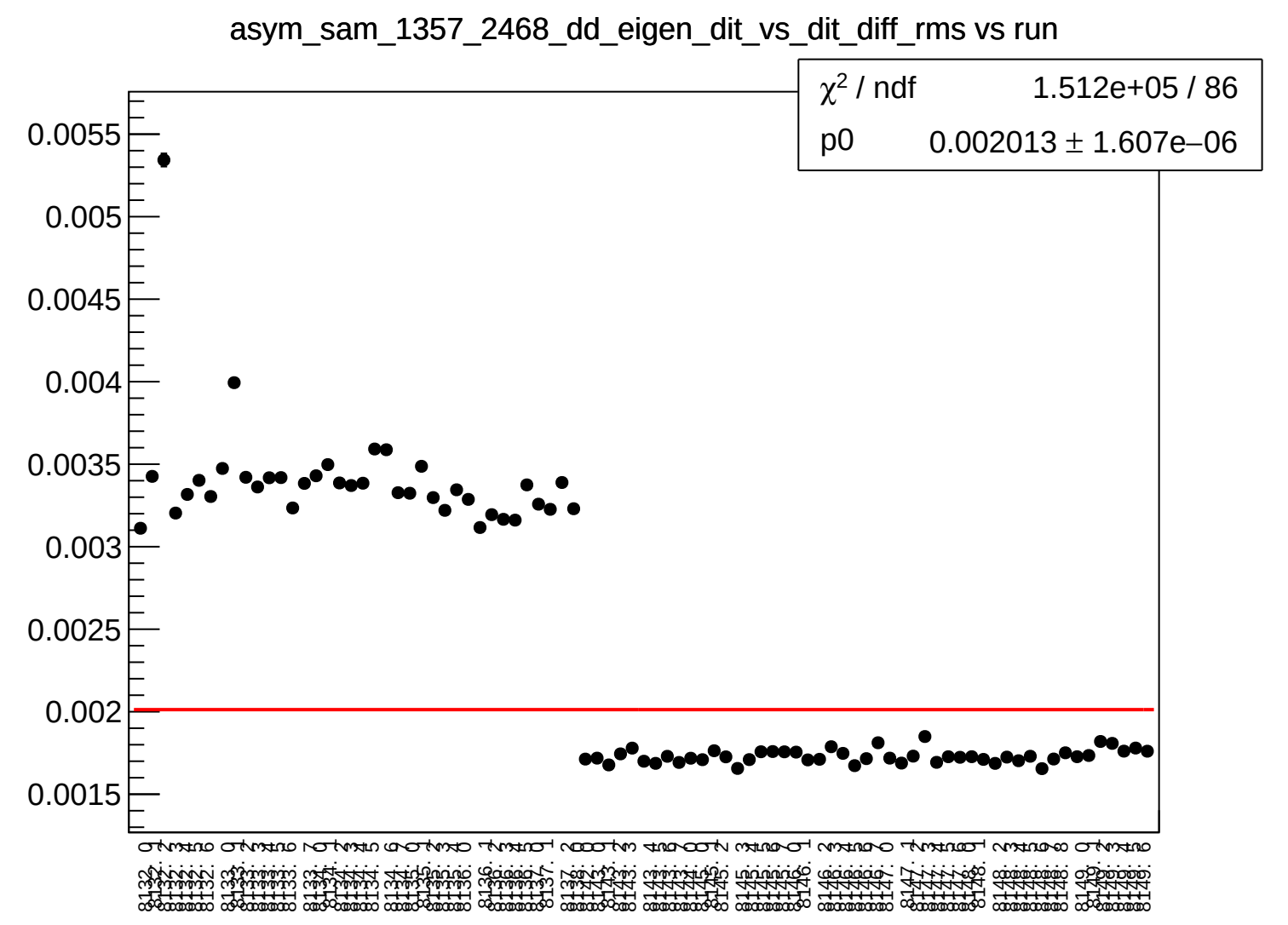

pull1D
Entries 87
Mean 0.02227
Std Dev 0.9984

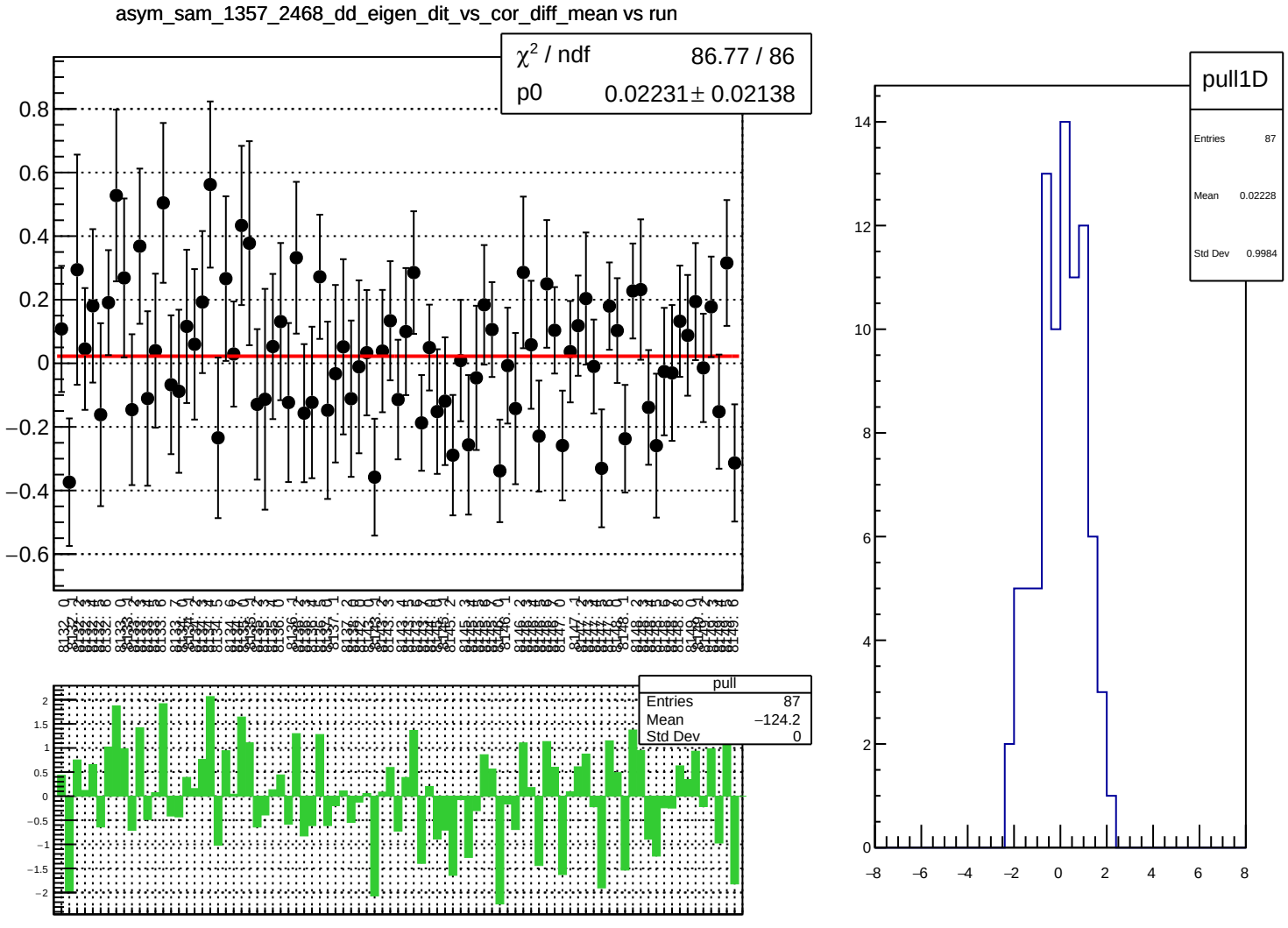

asym_sam_1357_2468_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.798e+04 / 86
p0 19.48 ± 0.01511
35
30
25
20
15

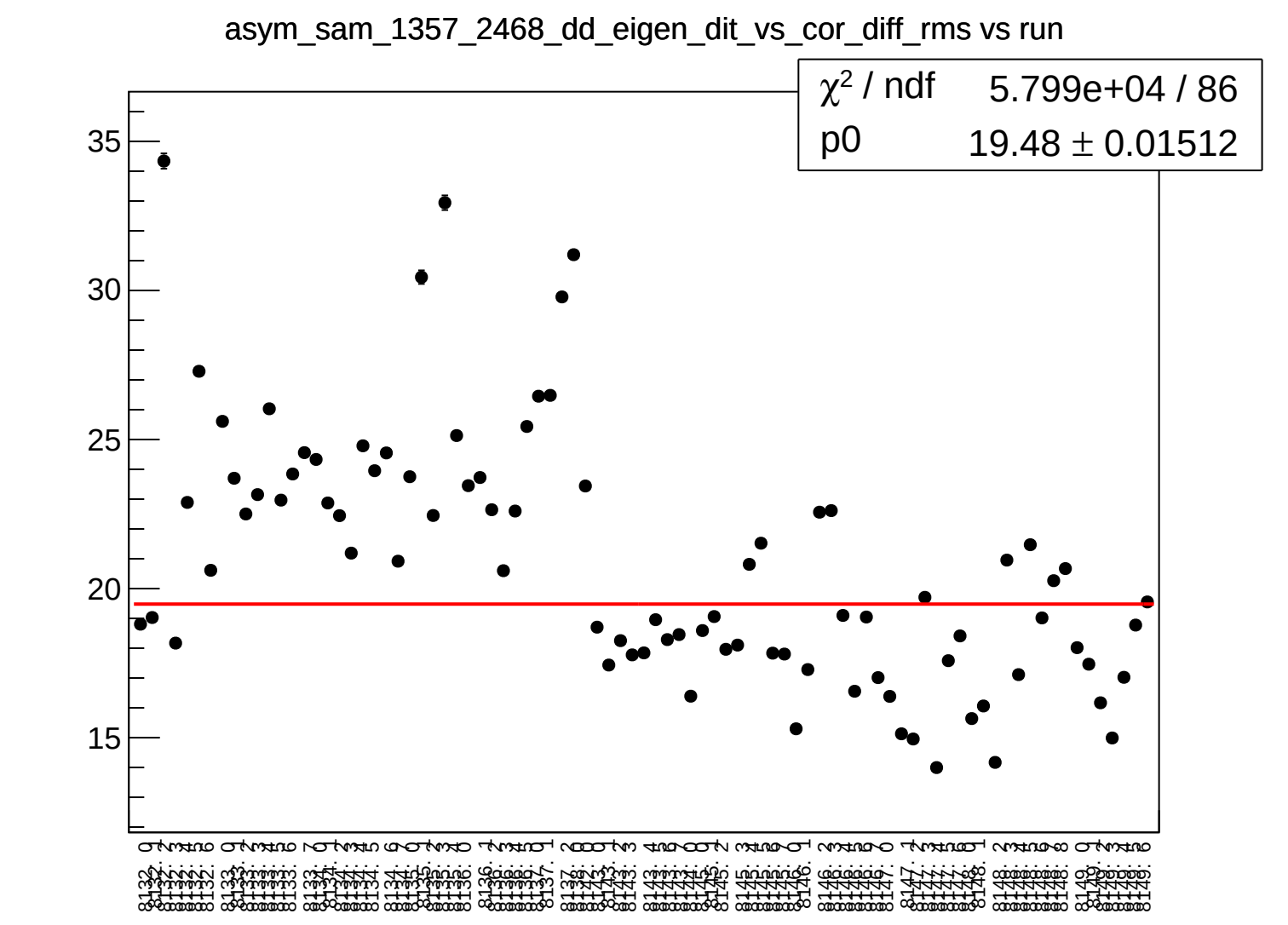

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.76 / 86
p0 0.02231 ± 0.02137
pull
Entries 87
Mean −124.3
Std Dev 0
pull1D
Entries 87
Mean 0.02227
Std Dev 0.9984

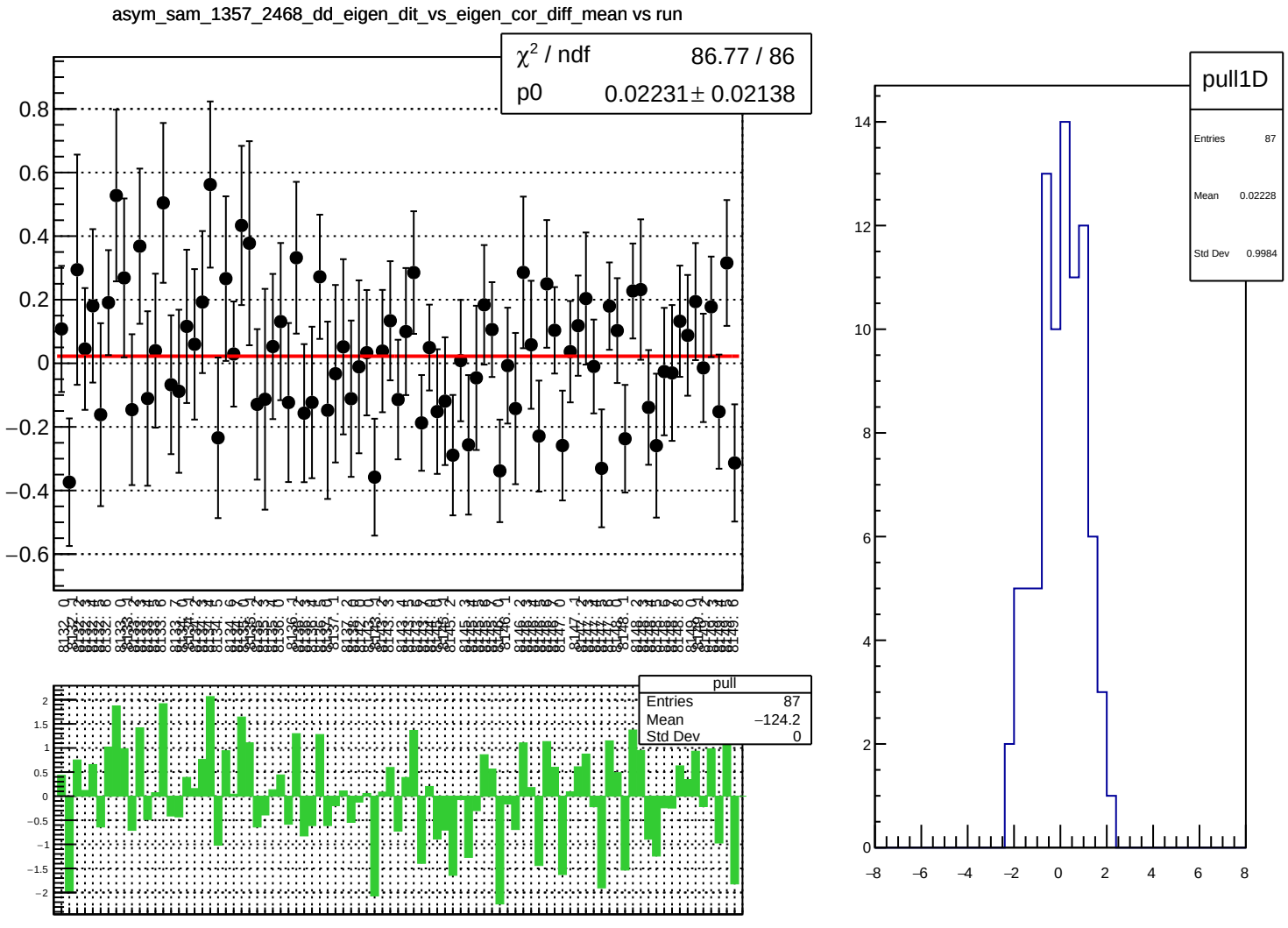

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_rms vs run
χ2 / ndf 5.798e+04 / 86
p0 19.48 ± 0.01511
35
30
25
20
15

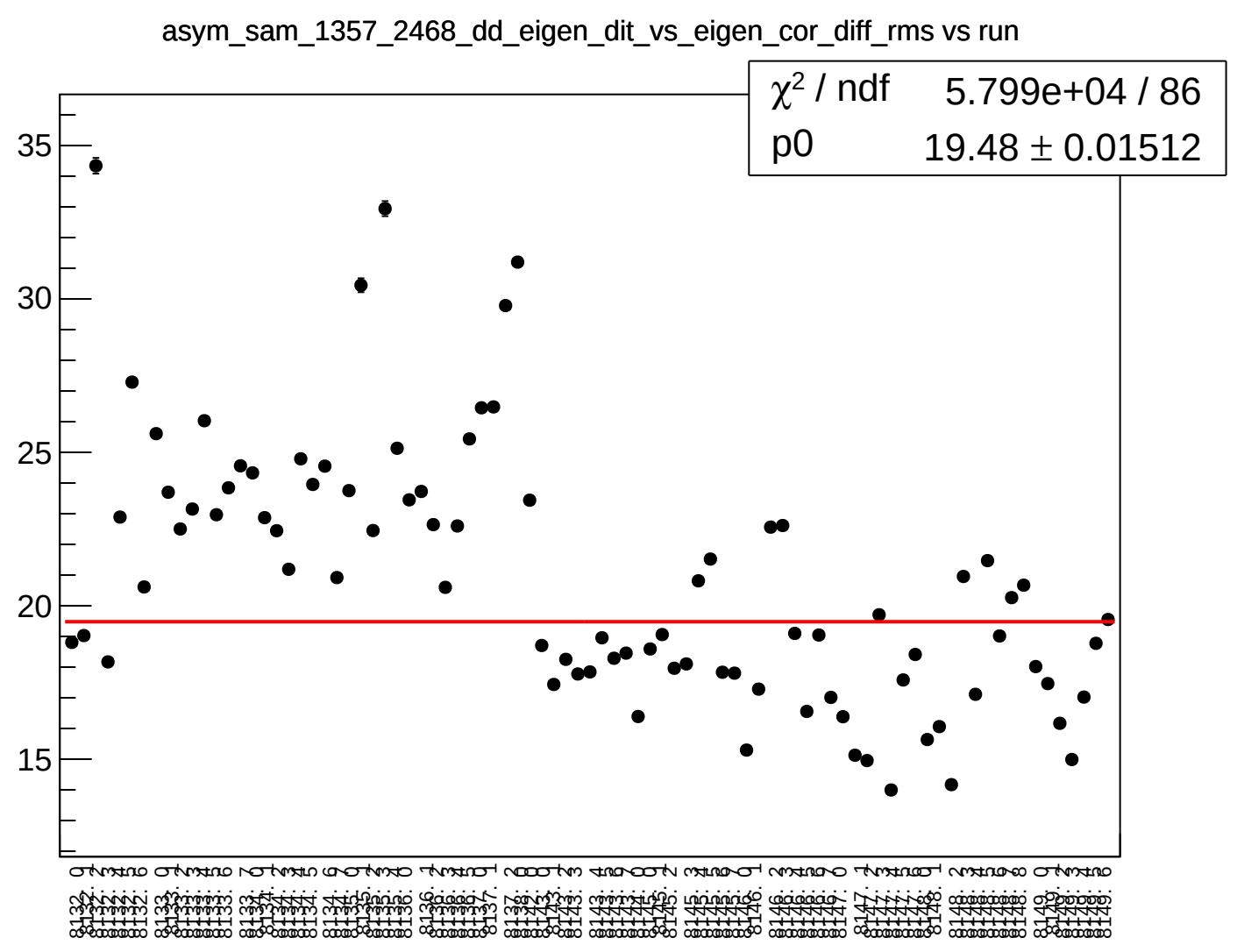

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 109.7 / 86
p0 −2.171e−07 ± 2.273e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 87
Mean −29.83
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.08295
Std Dev 1.12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

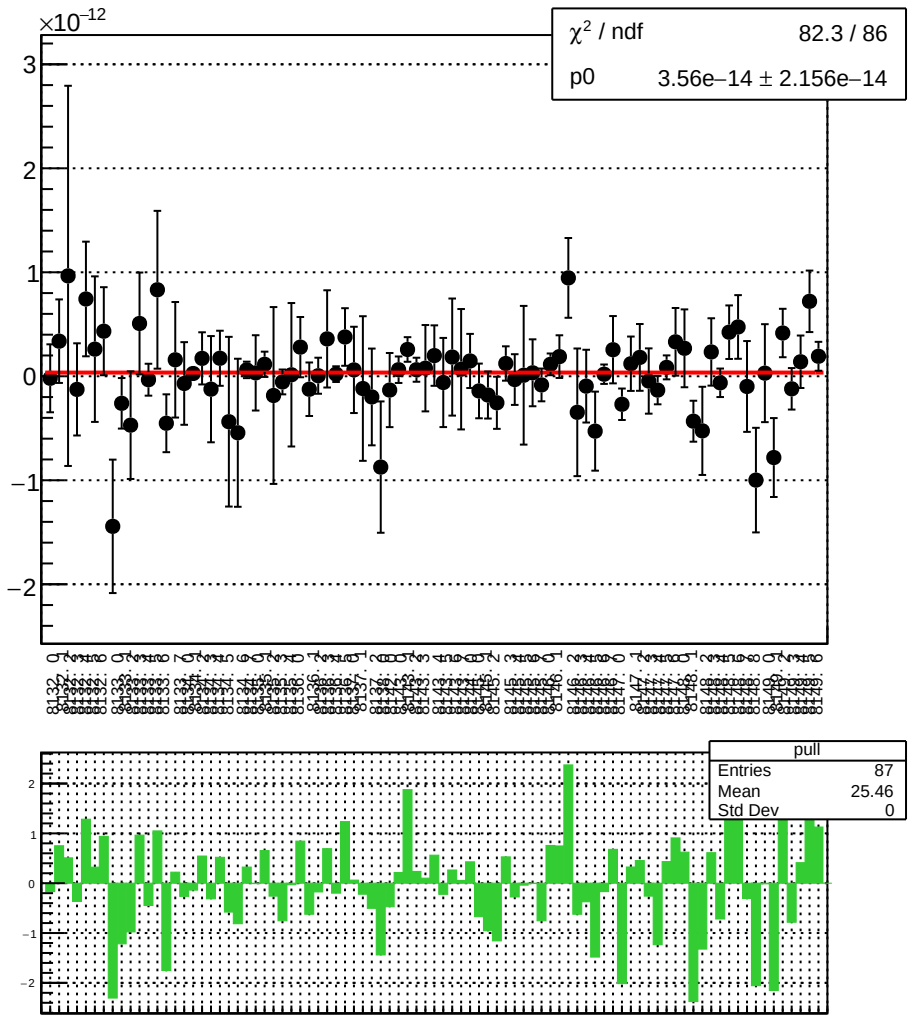

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.512e+05 / 86
p0 0.002013 ± 1.607e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015

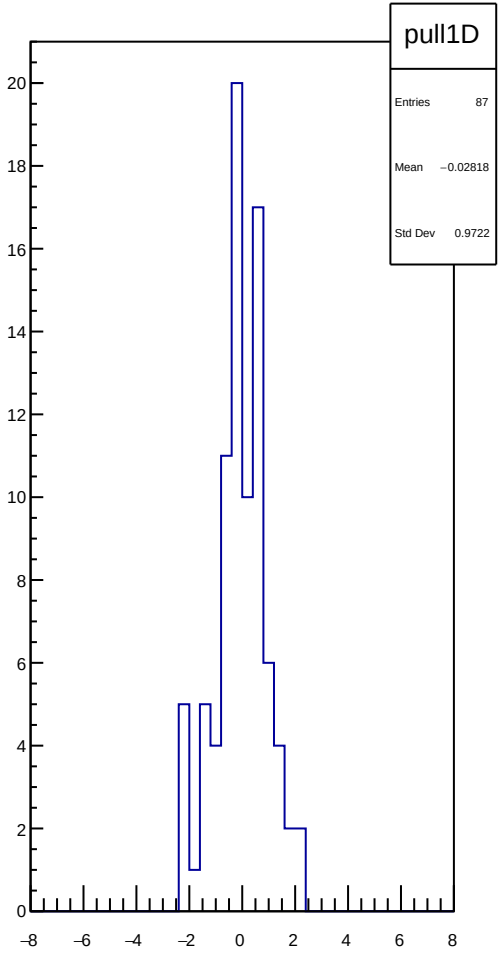

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.77 / 86
p0 0.02231 ± 0.02138
pull
Entries 87
Mean −124.2
Std Dev 0
pull1D
Entries 87
Mean 0.02228
Std Dev 0.9984

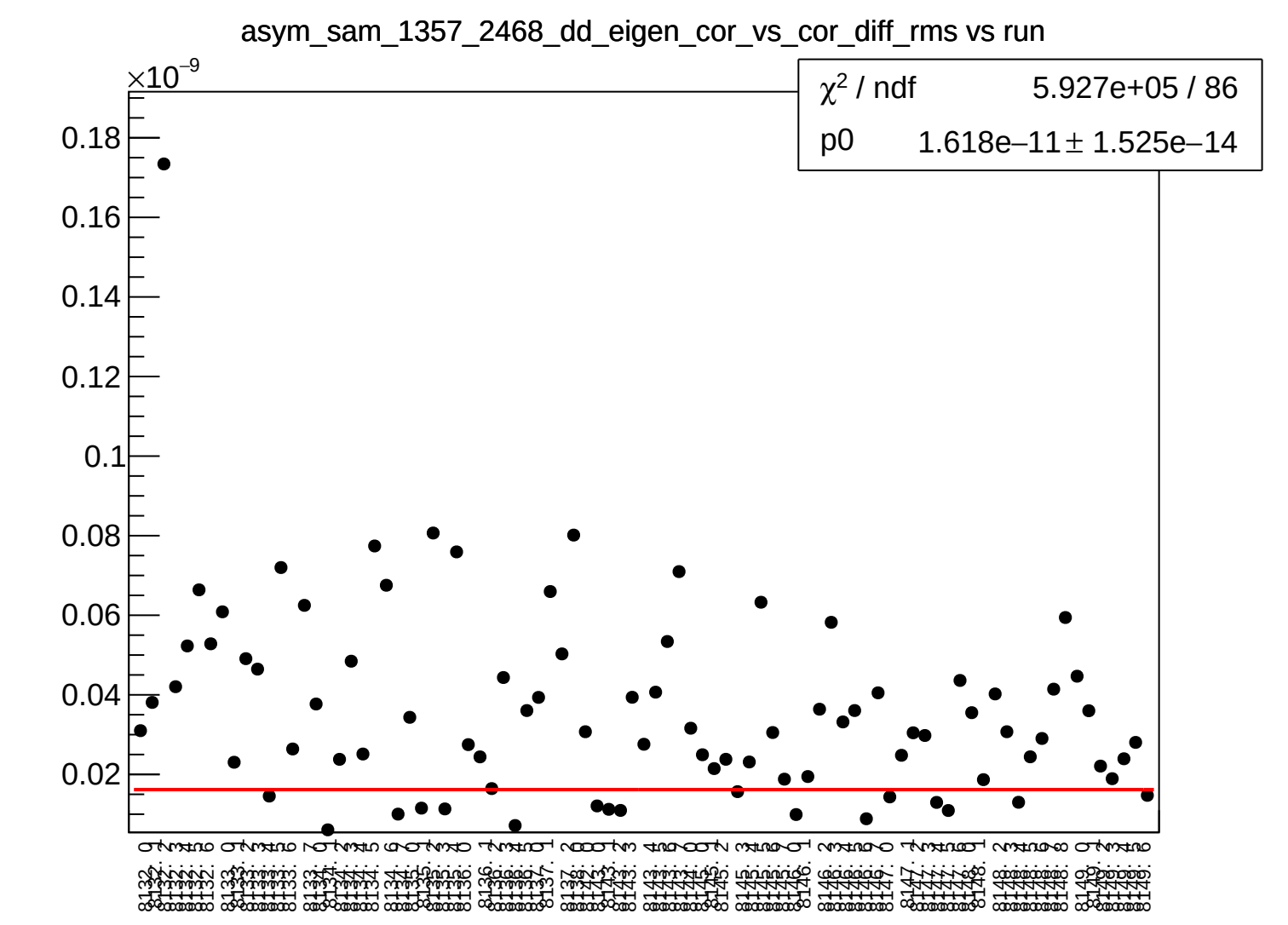

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.799e+04 / 86
p0 19.48 ± 0.01512
35
30
25
20
15

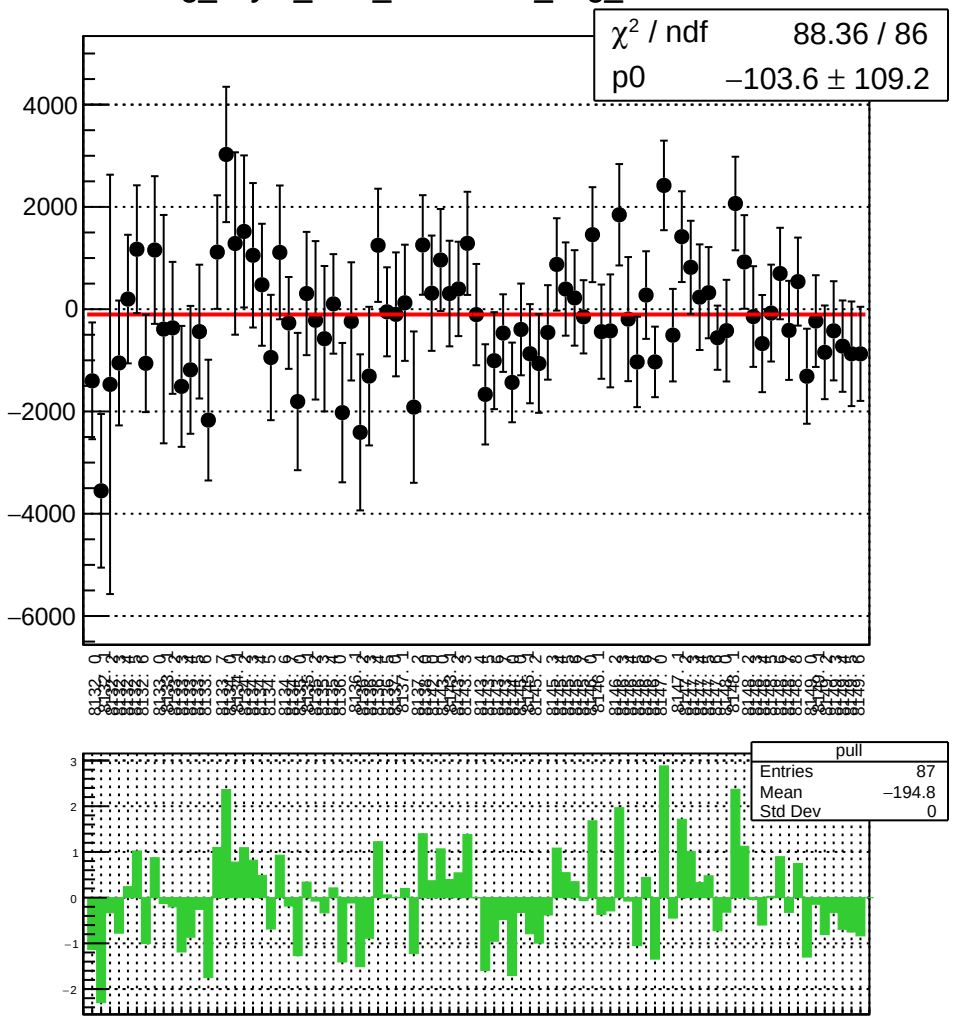

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.77 / 86
p0 0.02231 ± 0.02138
pull
Entries 87
Mean −124.2
Std Dev 0
pull1D
Entries 87
Mean 0.02228
Std Dev 0.9984

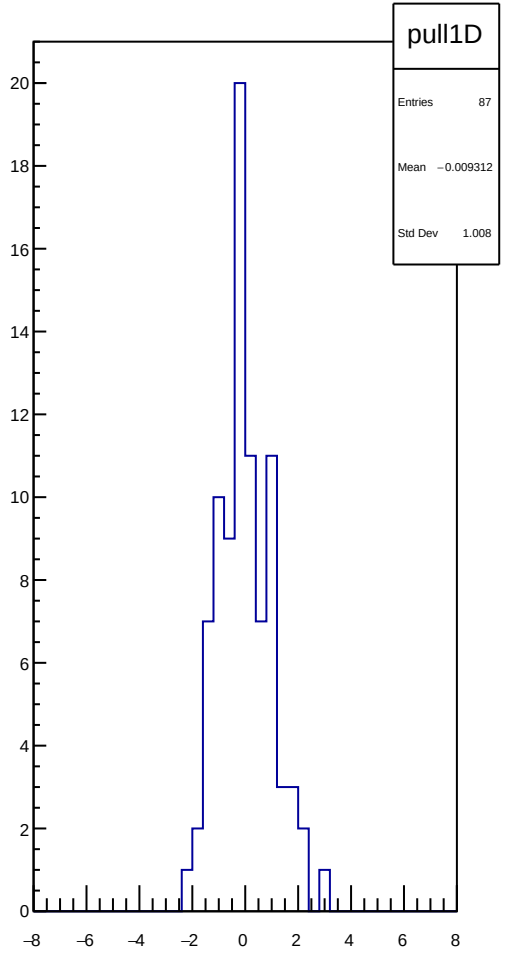

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.799e+04 / 86
p0 19.48 ± 0.01512
35
30
25
20
15

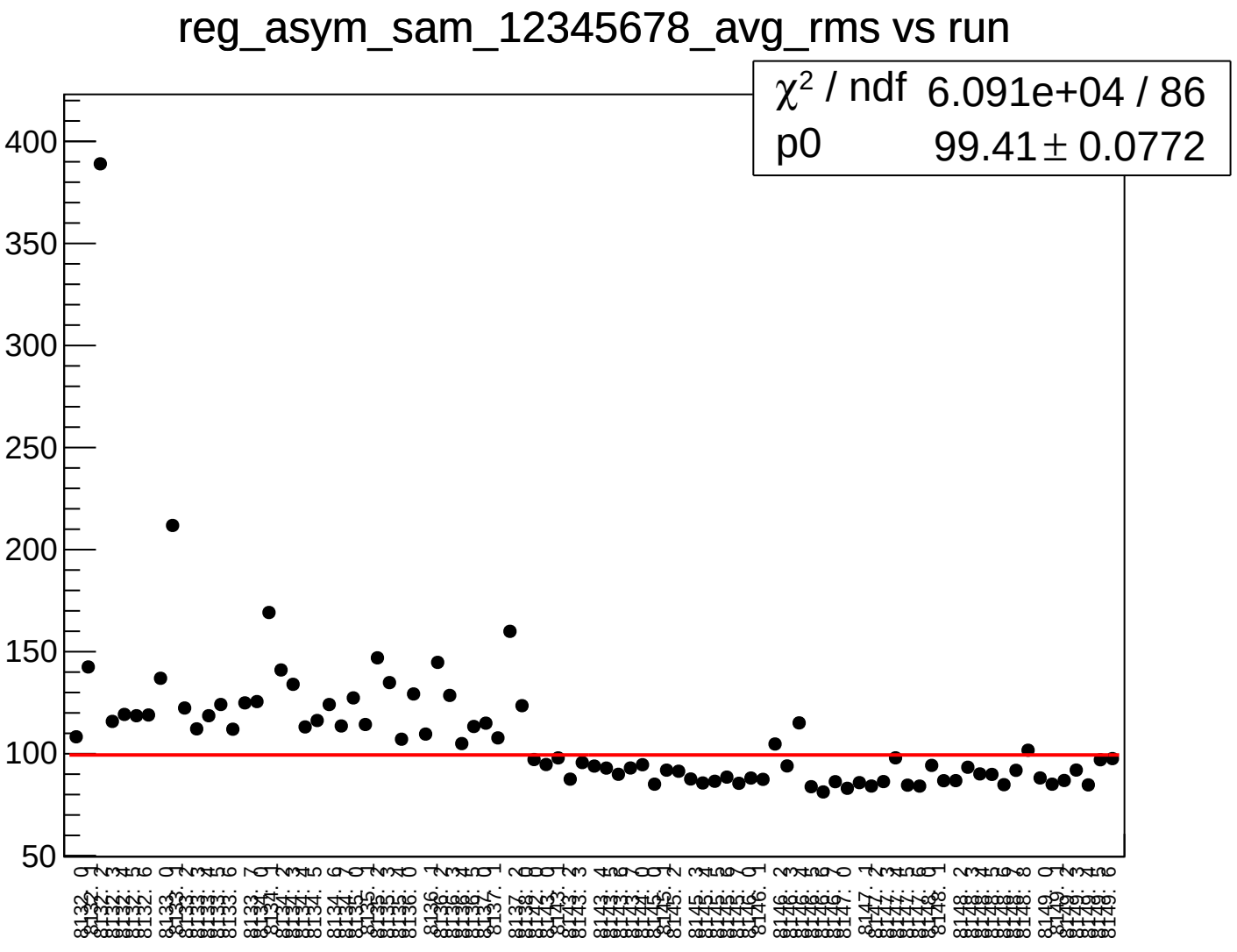

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.3 / 86
p0 3.56e−14 ± 2.156e−14
pull
Entries 87
Mean 25.46
Std Dev 0

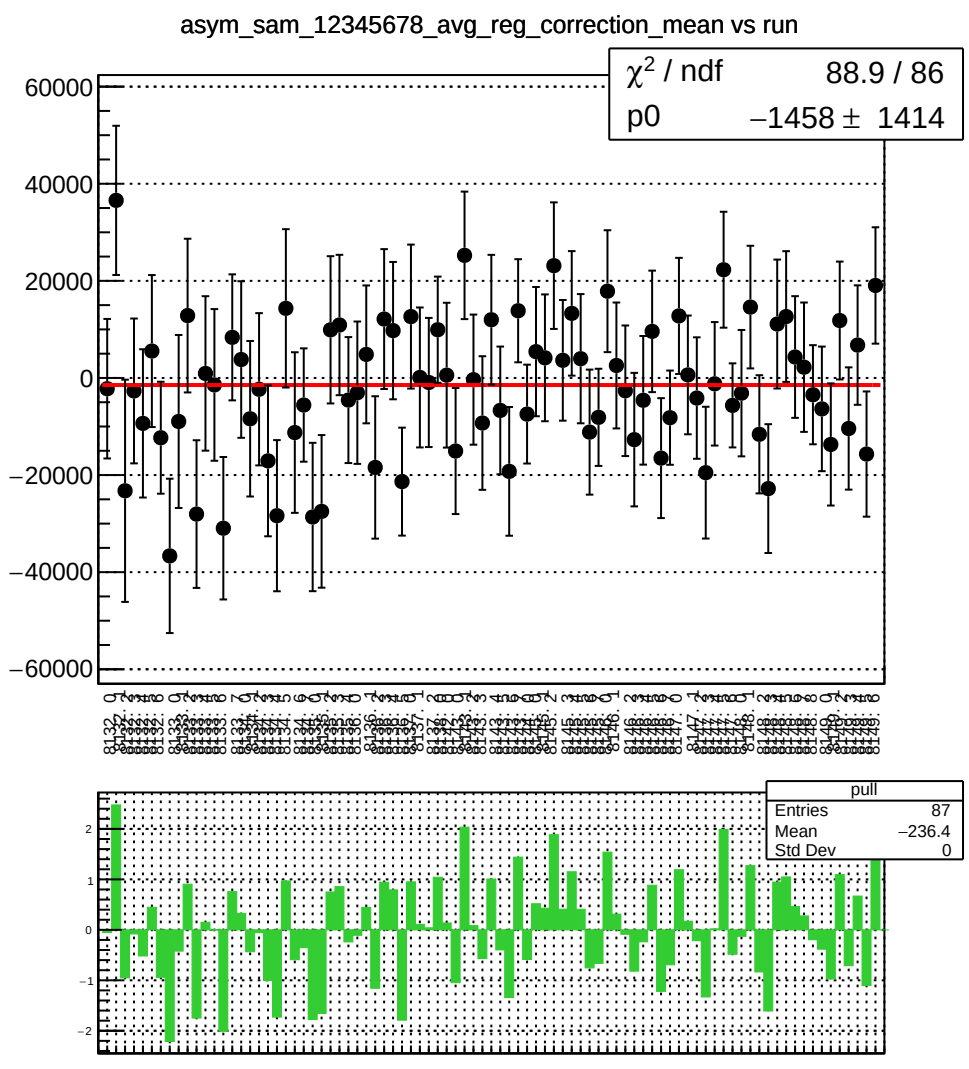

pull1D
Entries 87
Mean −0.02818
Std Dev 0.9722

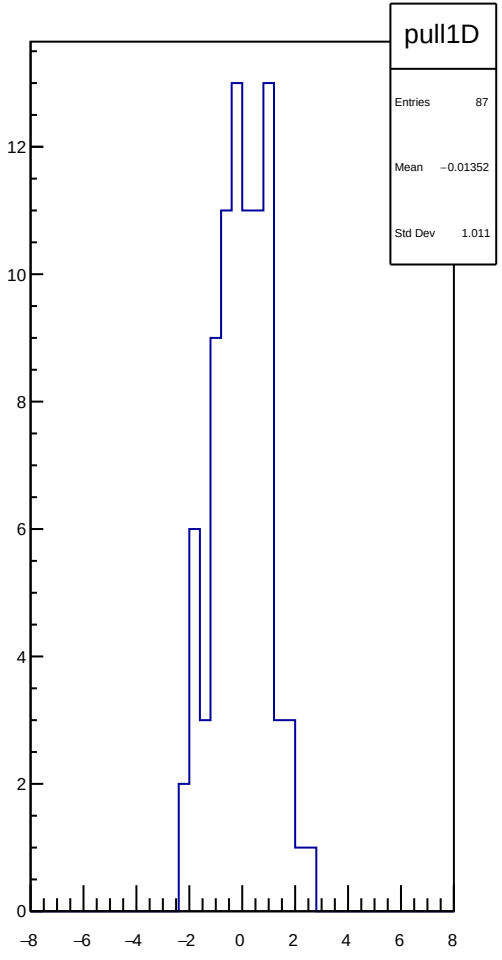

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.927e+05 / 86
p0 1.618e−11 ± 1.525e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

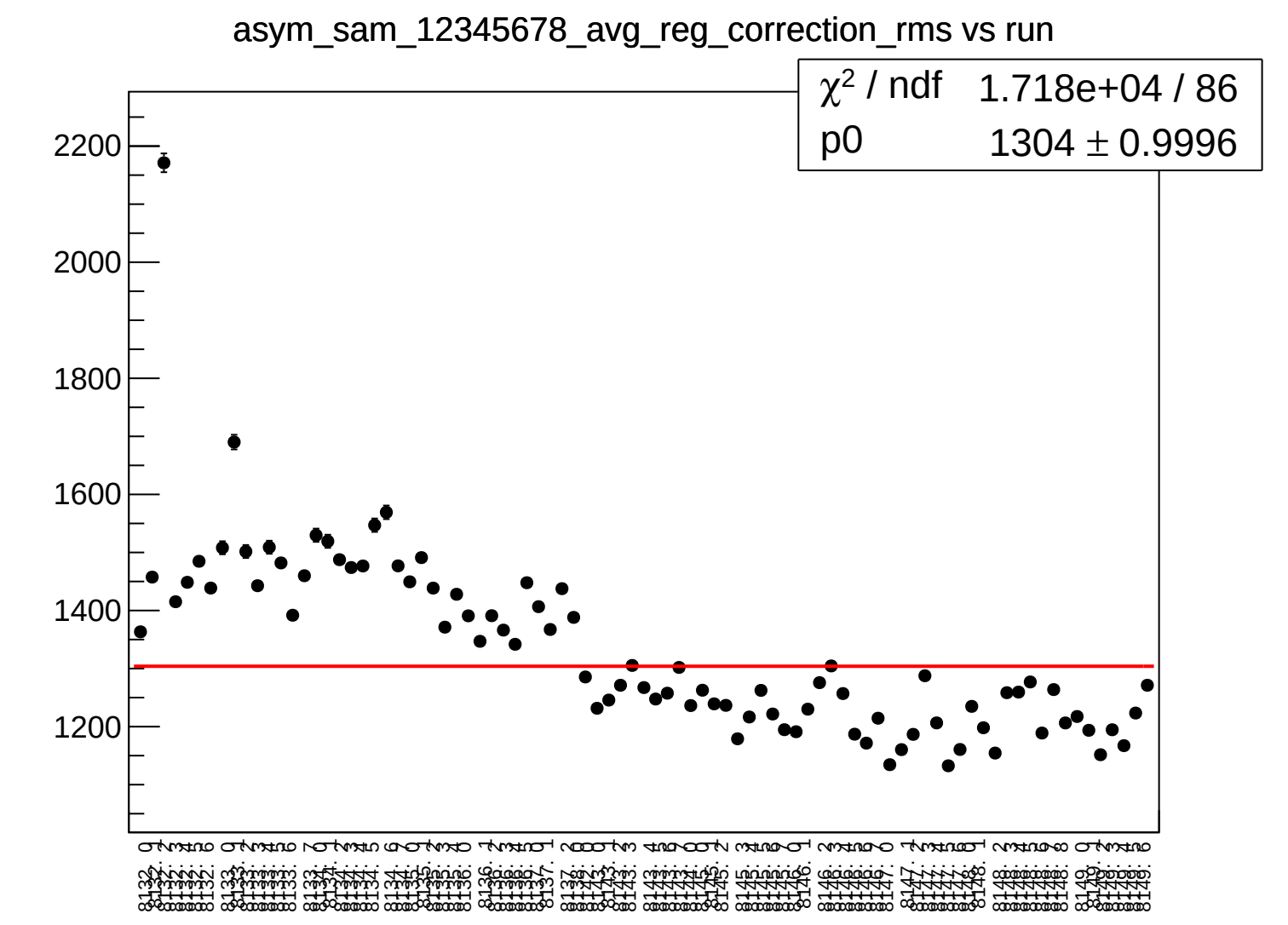

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 88.36 / 86
p0 −103.6 ± 109.2
4000
2000
0
−2000
−4000
−6000
pull
Entries 87
Mean −194.8
Std Dev 0
3
2
1
0
−1
−2

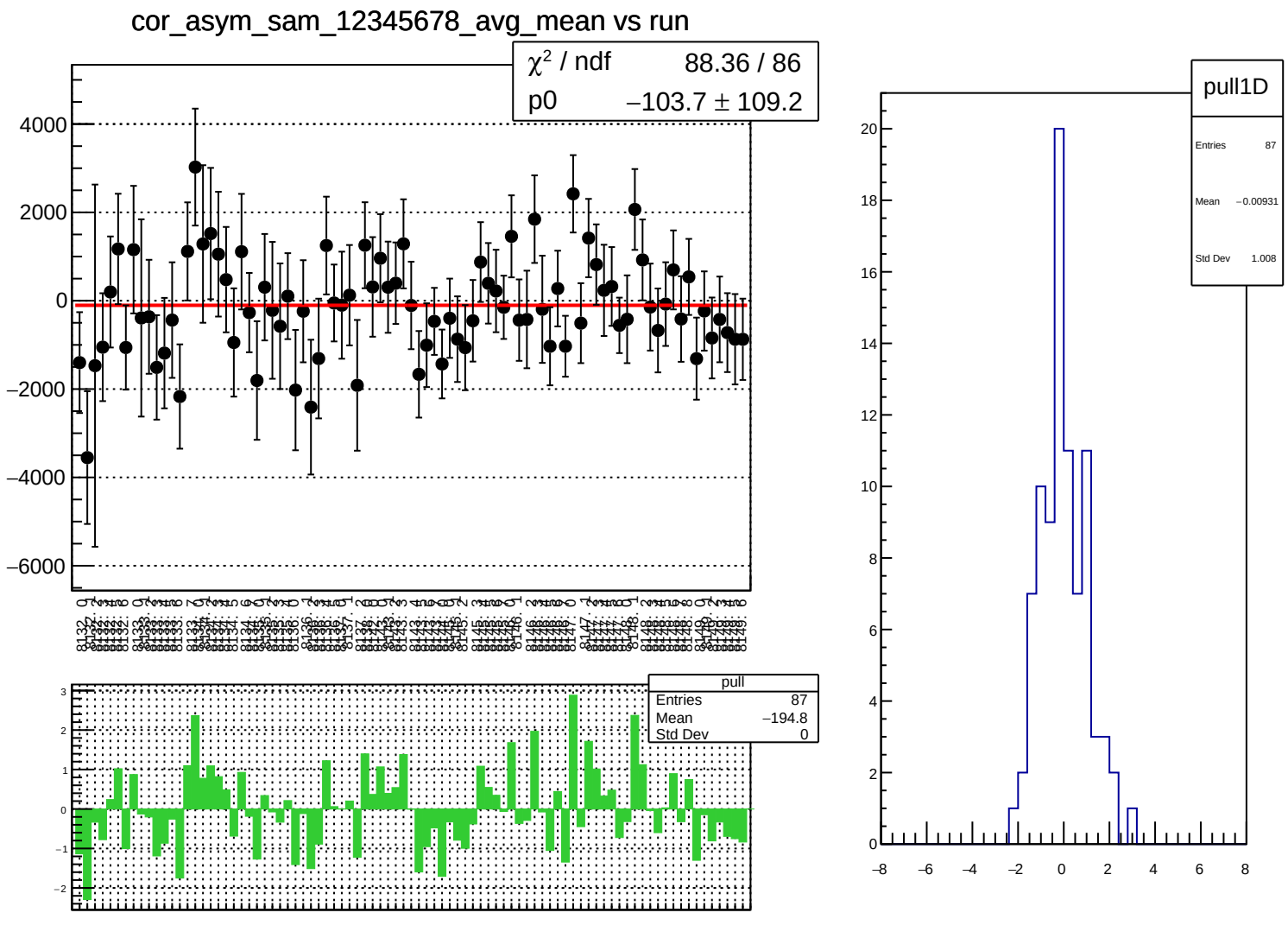

pull1D
Entries 87
Mean −0.009312
Std Dev 1.008
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

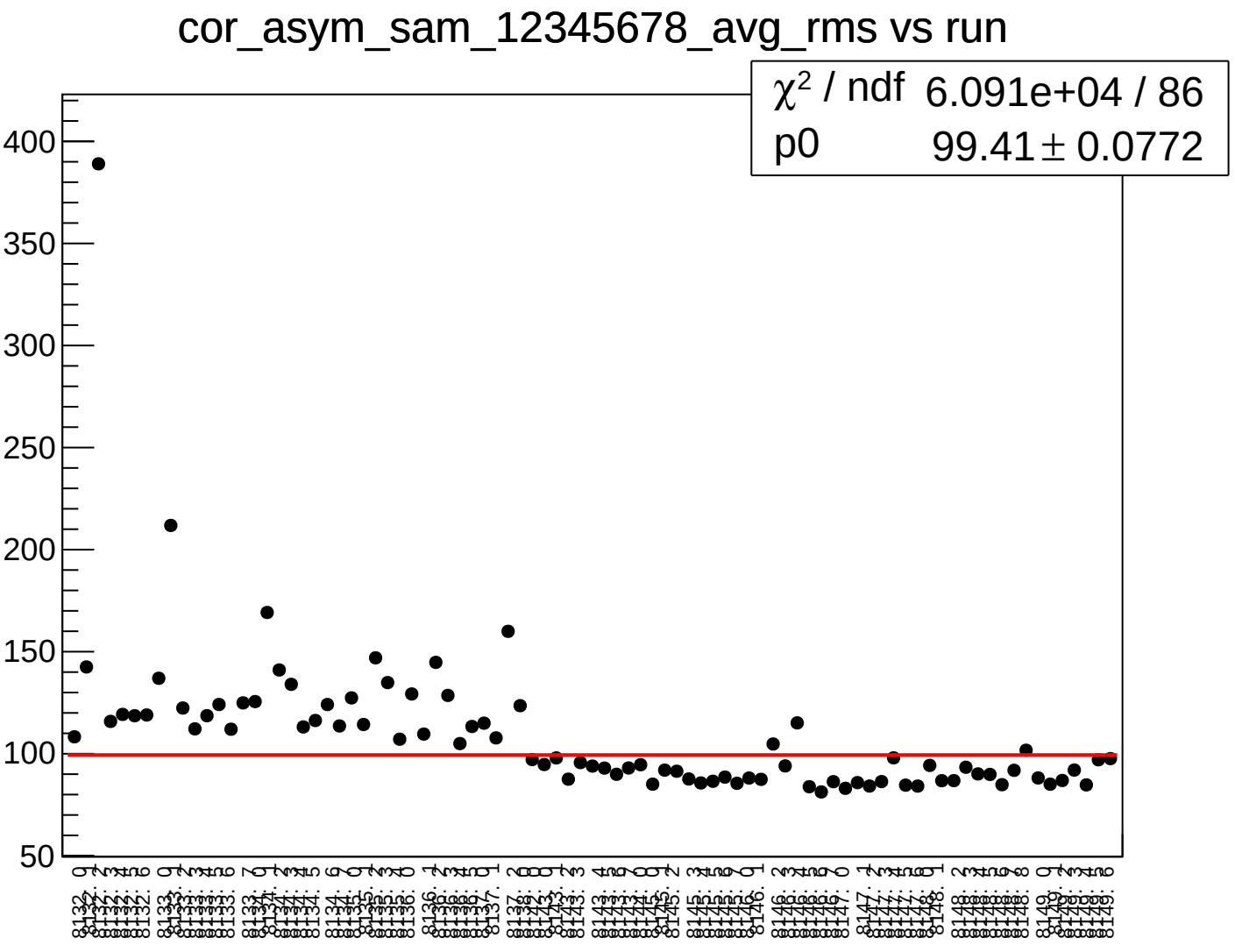

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 6.091e+04 / 86
p0 99.41 ± 0.0772
400
350
300
250
200
150
100
50

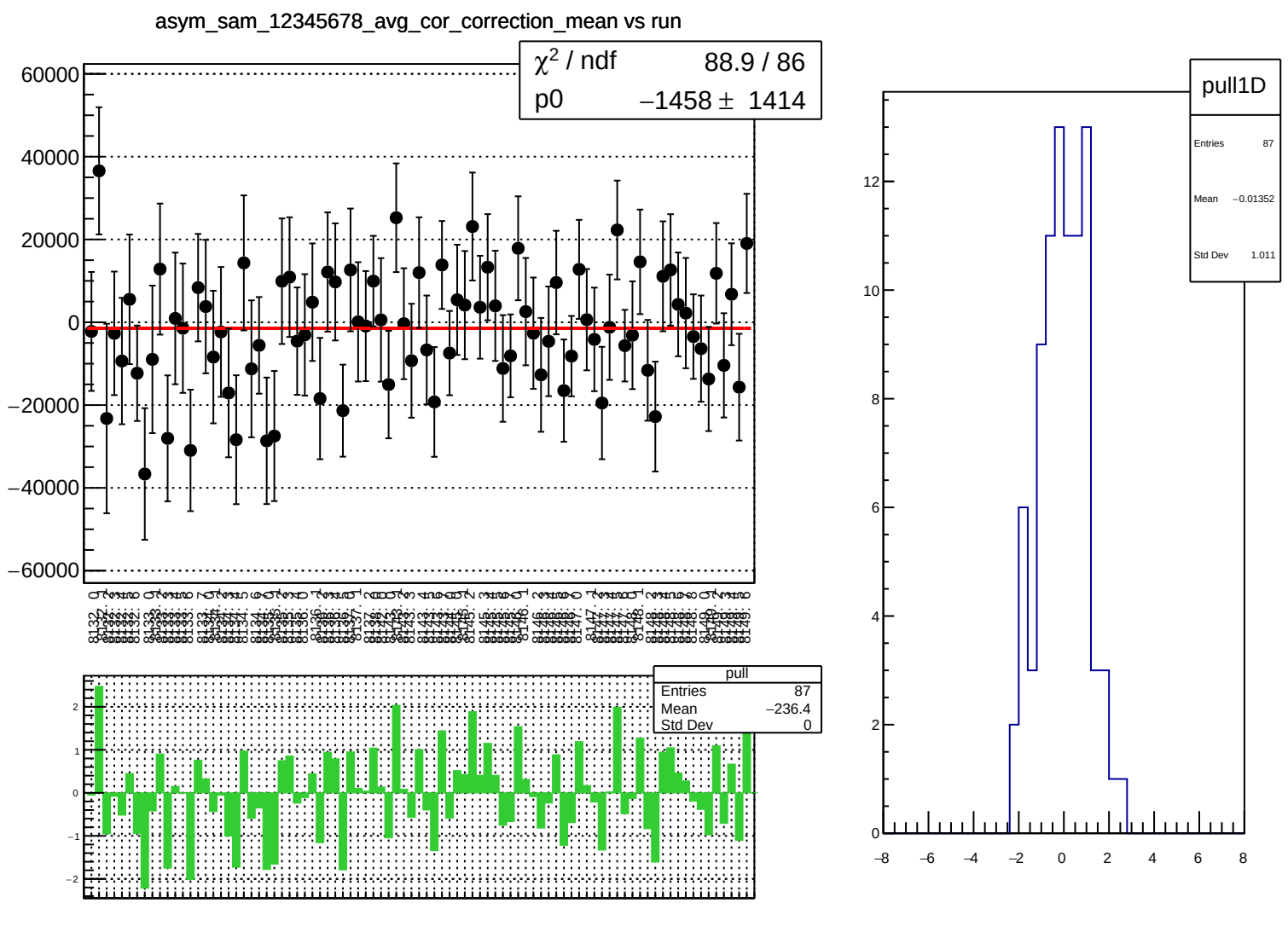

asym_sam_12345678_avg_reg_correction_mean vs run
χ² / ndf 88.9 / 86
p0 −1458 ± 1414
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −236.4
Std Dev 0
2
1
0
−1
−2

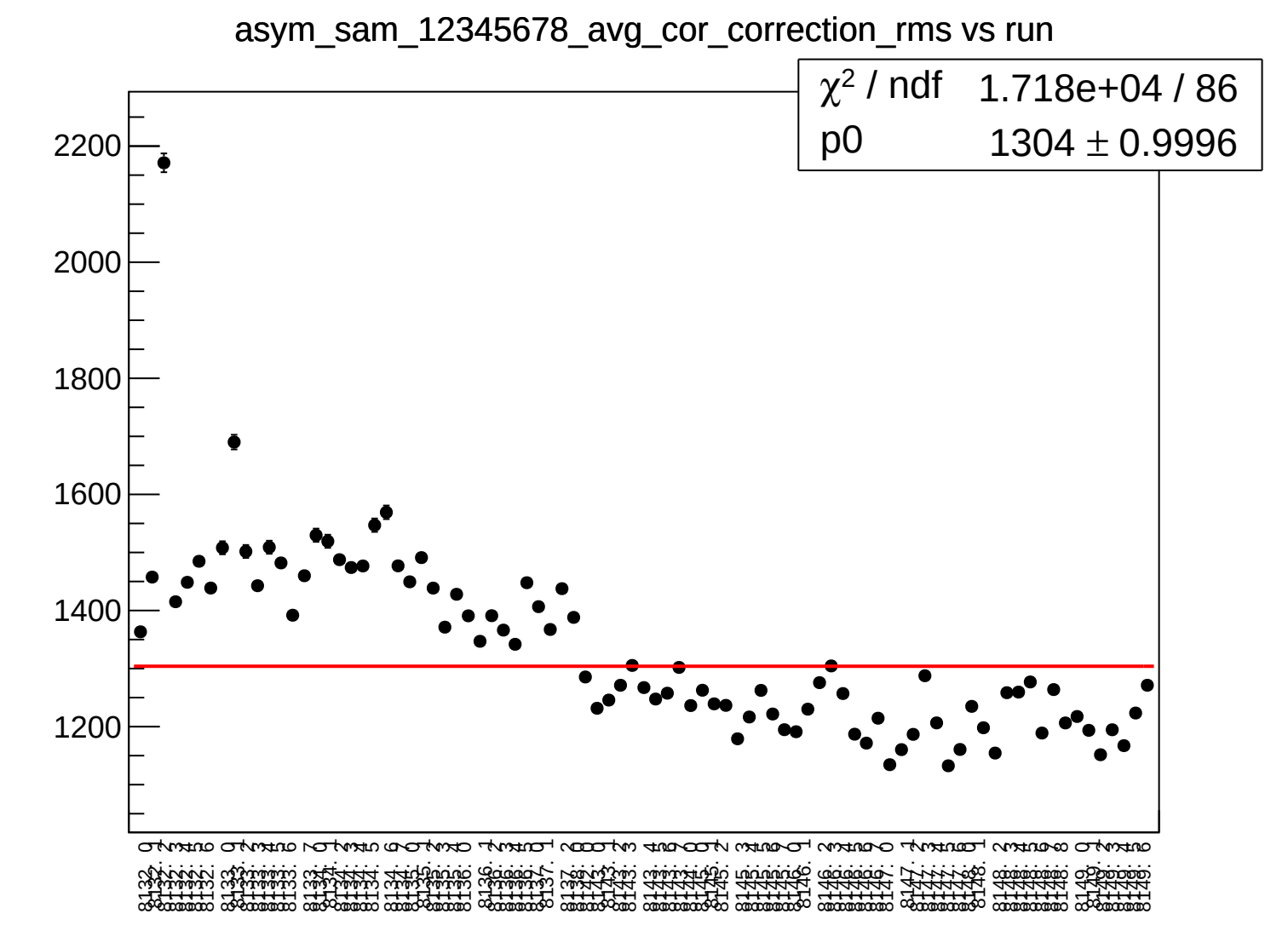

pull1D
Entries 87
Mean −0.01352
Std Dev 1.011
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

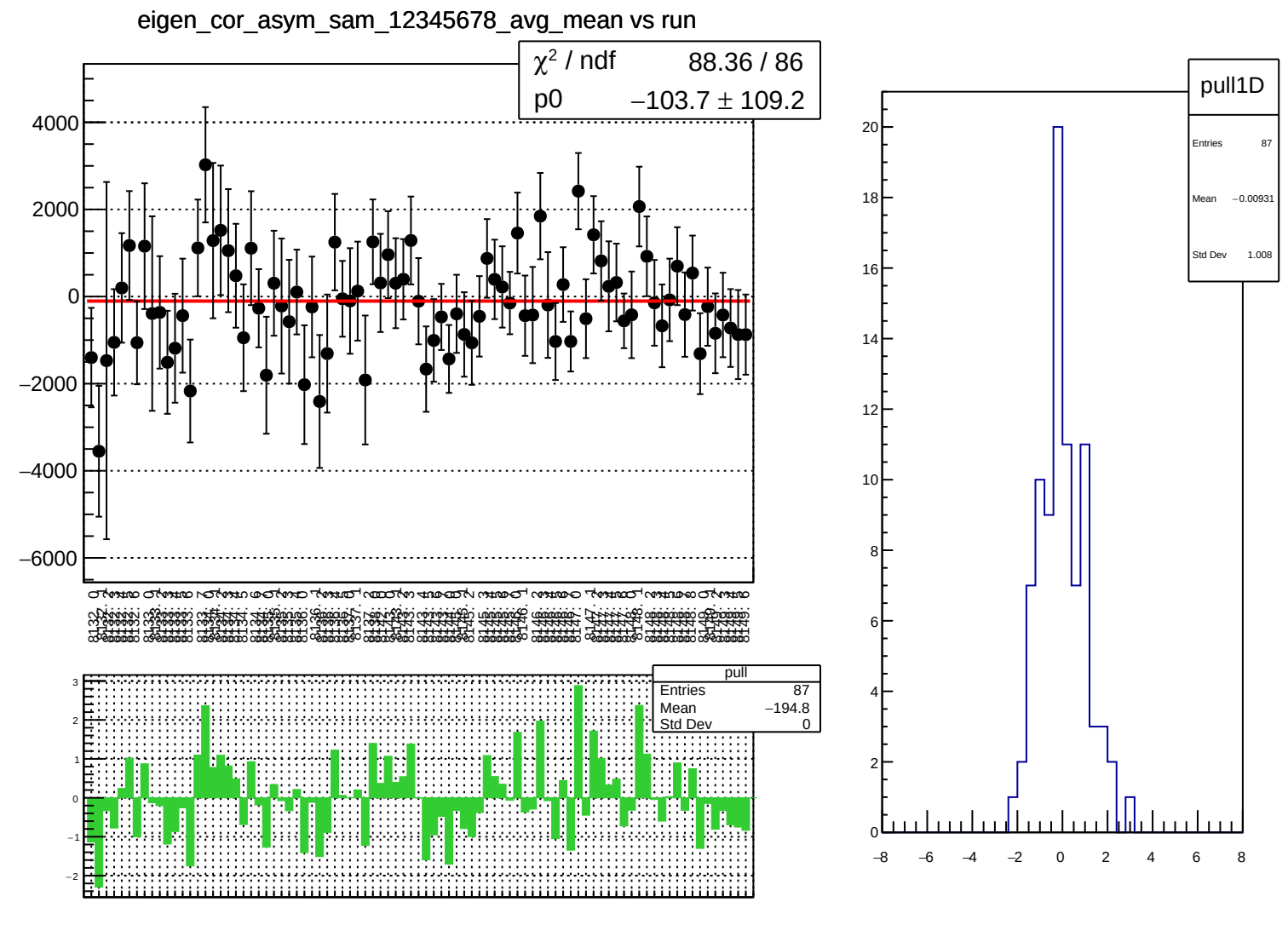

asym_sam_12345678_avg_reg_correction_rms vs run
χ² / ndf 1.718e+04 / 86
p0 1304 ± 0.9996
2200
2000
1800
1600
1400
1200

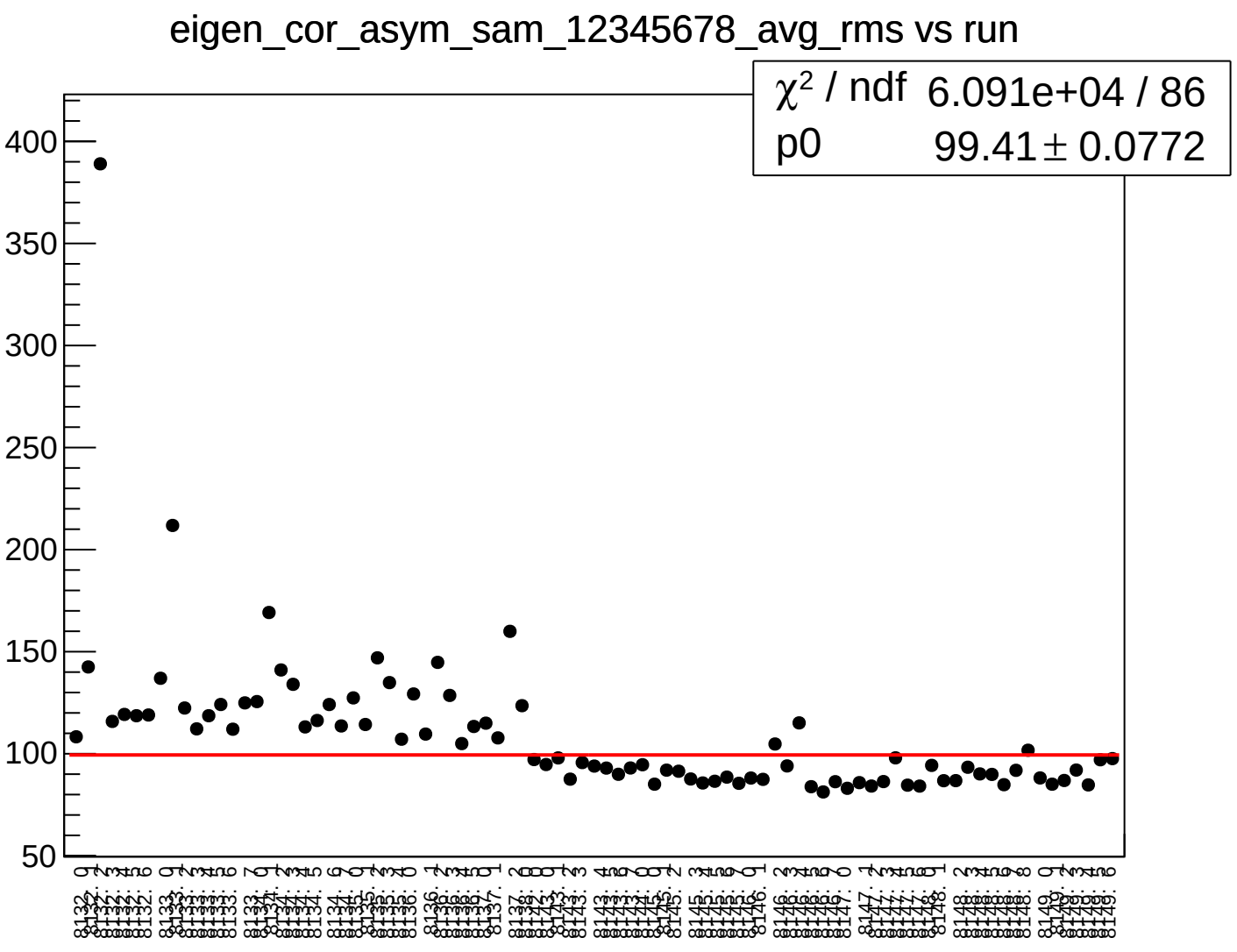

cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 88.36 / 86
p0 −103.7 ± 109.2
4000
2000
0
−2000
−4000
−6000
pull
Entries 87
Mean −194.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.00931
Std Dev 1.008
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

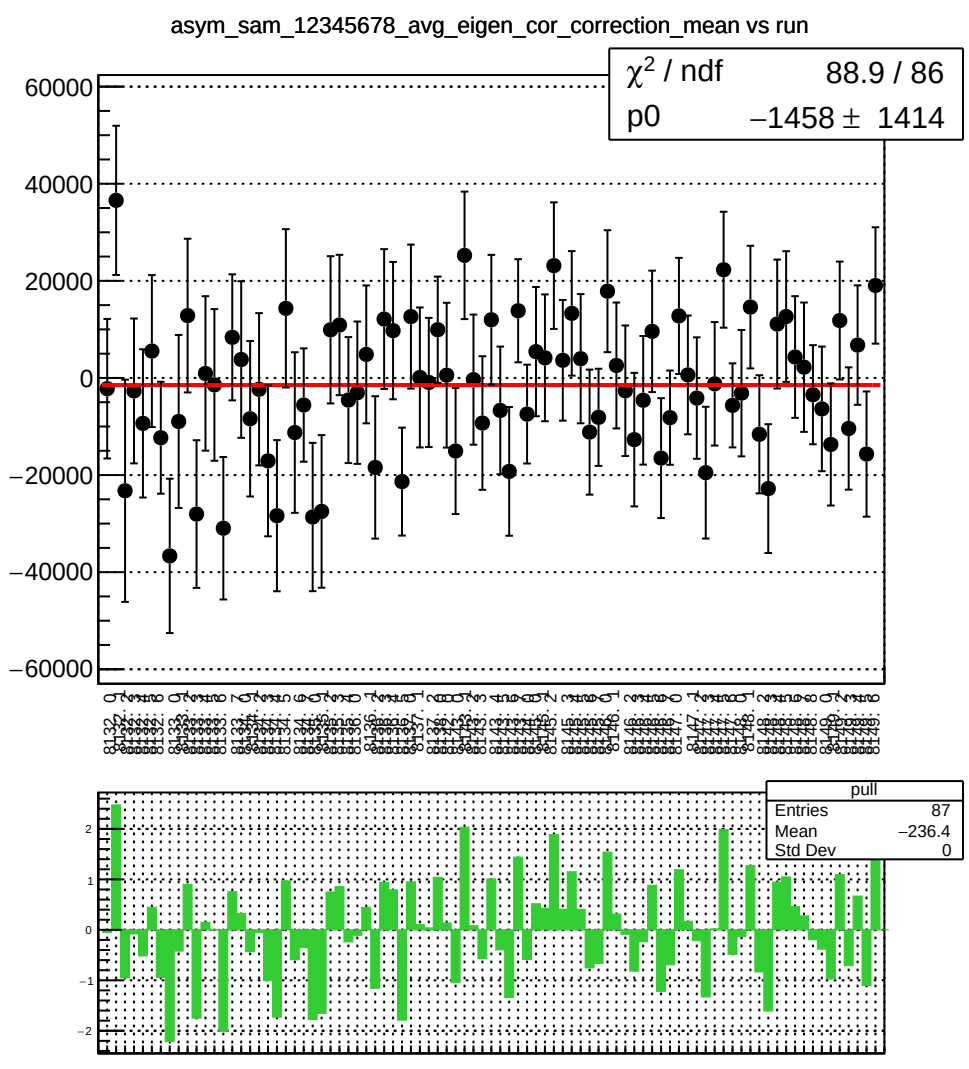

cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 6.091e+04 / 86
p0 99.41 ± 0.0772
400
350
300
250
200
150
100
50

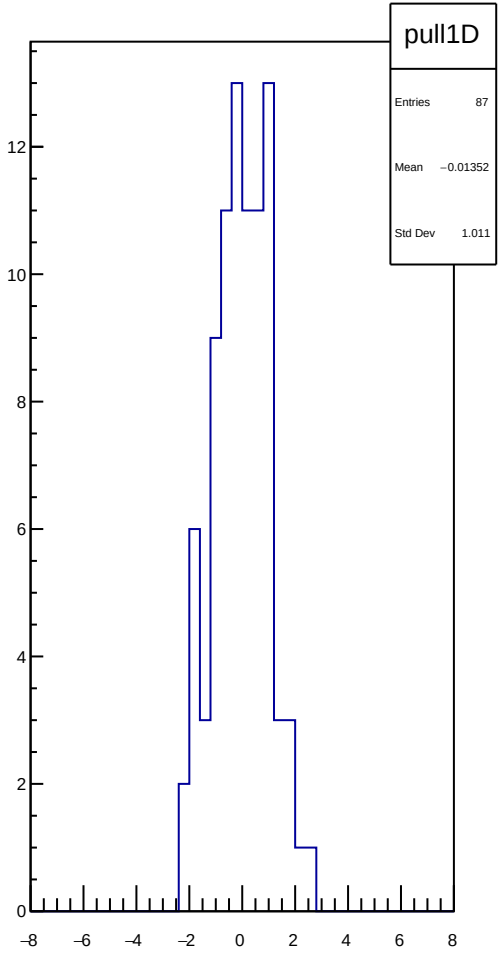

asym_sam_12345678_avg_cor_correction_mean vs run
χ² / ndf 88.9 / 86
p0 −1458 ± 1414
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −236.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.01352
Std Dev 1.011
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

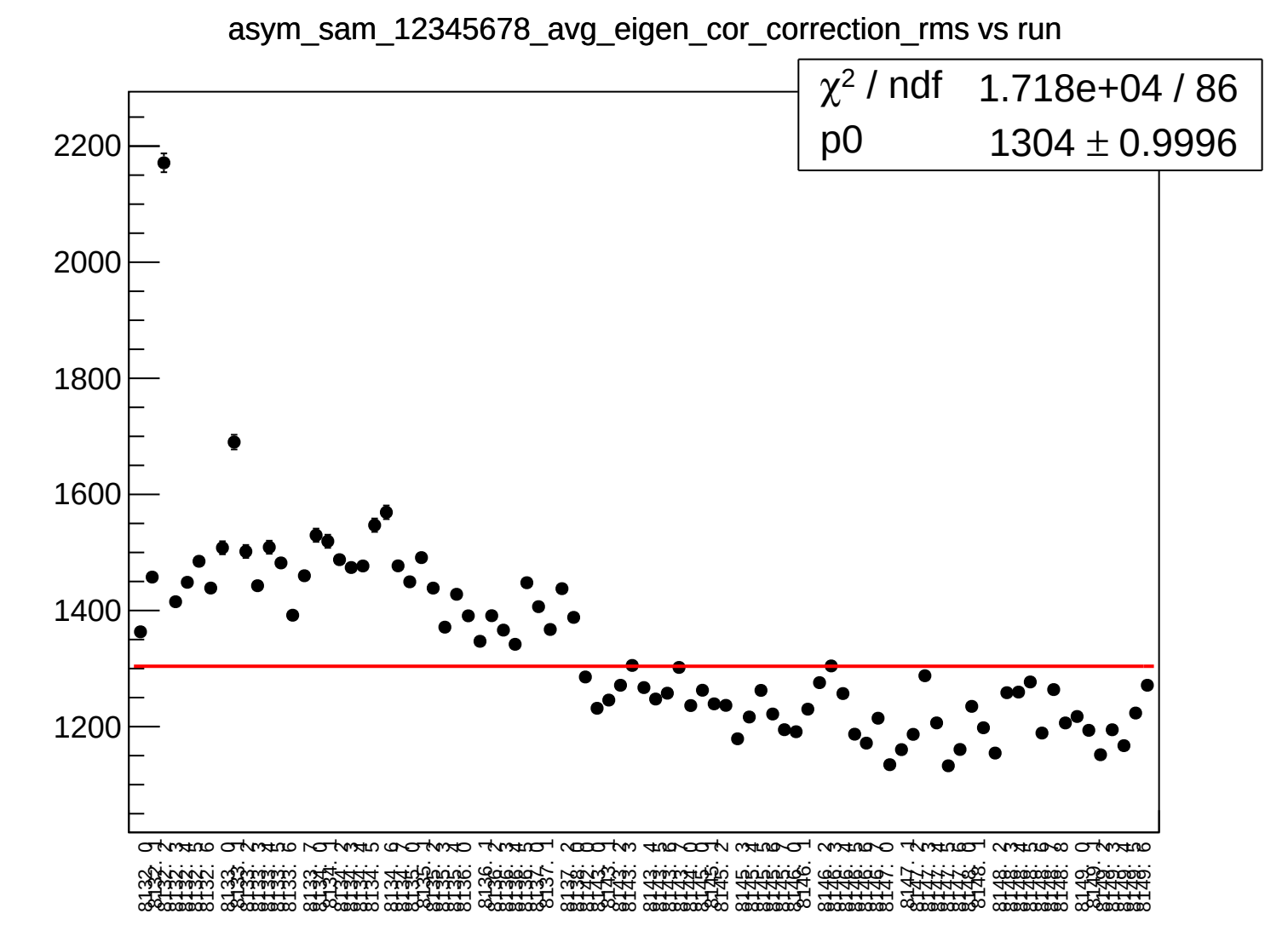

asym_sam_12345678_avg_cor_correction_rms vs run
χ² / ndf 1.718e+04 / 86
p0 1304 ± 0.9996
2200
2000
1800
1600
1400
1200

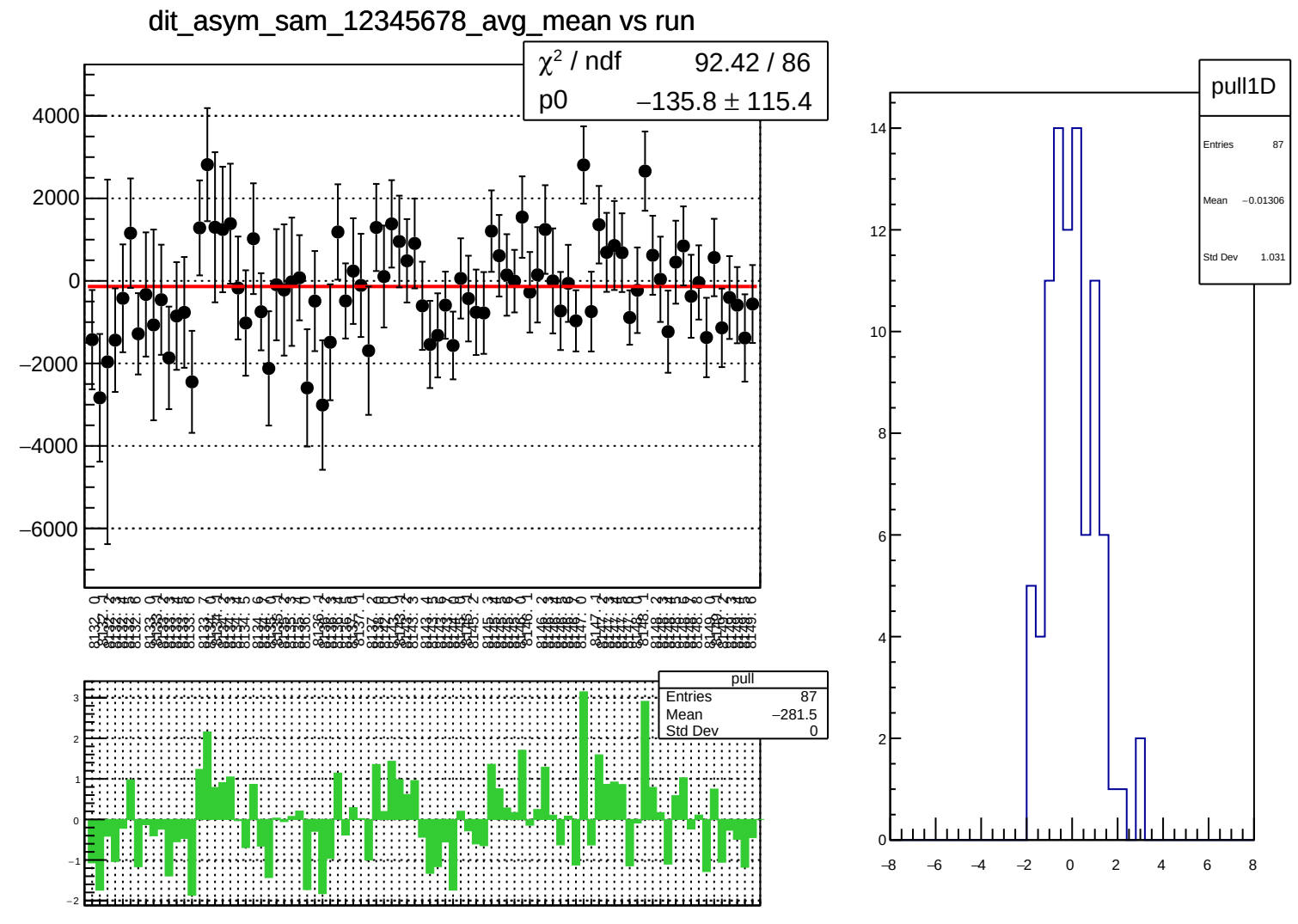

eigen_cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 88.36 / 86
p0 −103.7 ± 109.2
pull
Entries 87
Mean −194.8
Std Dev 0
pull1D
Entries 87
Mean −0.00931
Std Dev 1.008

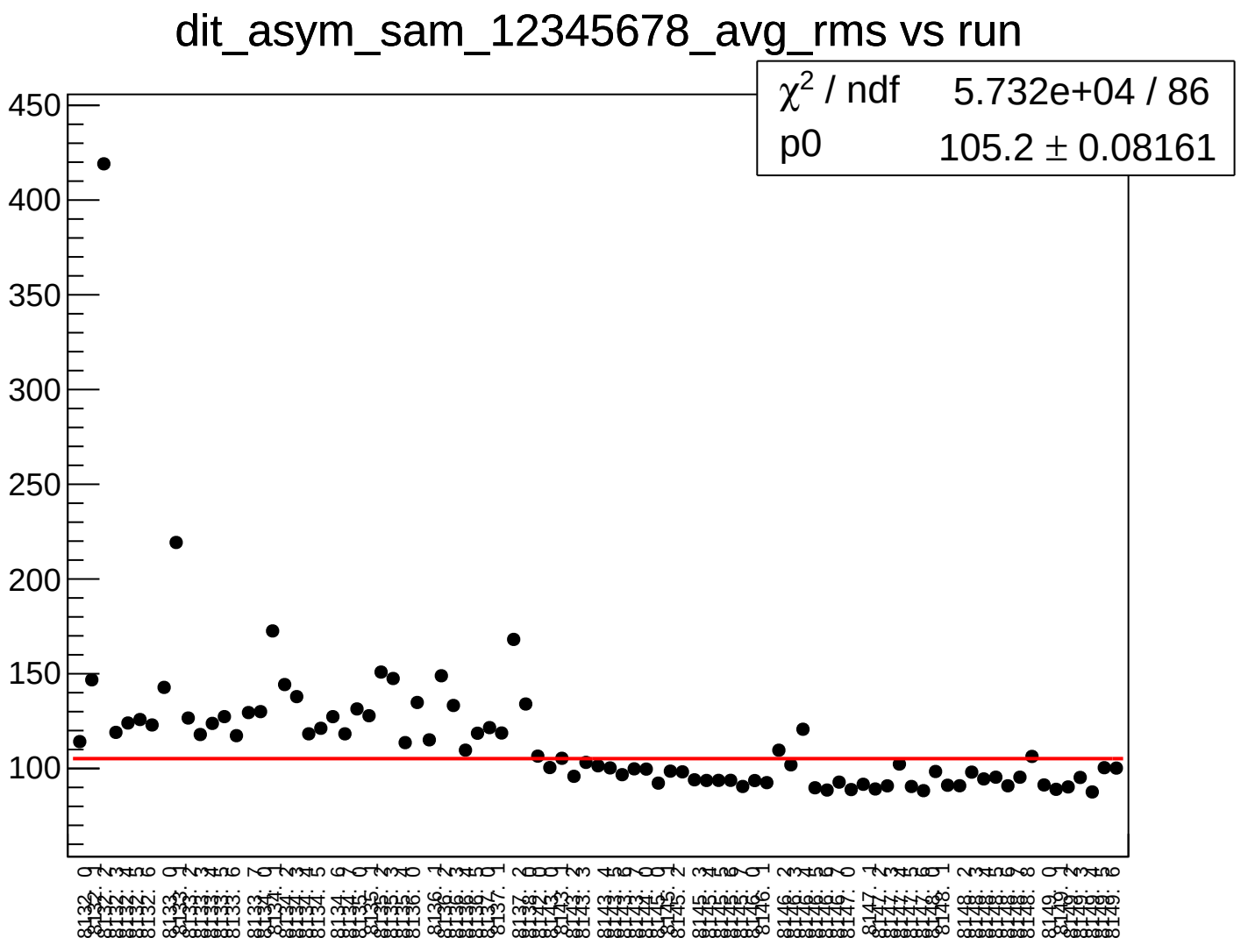

eigen_cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 6.091e+04 / 86
p0 99.41 ± 0.0772
400
350
300
250
200
150
100
50

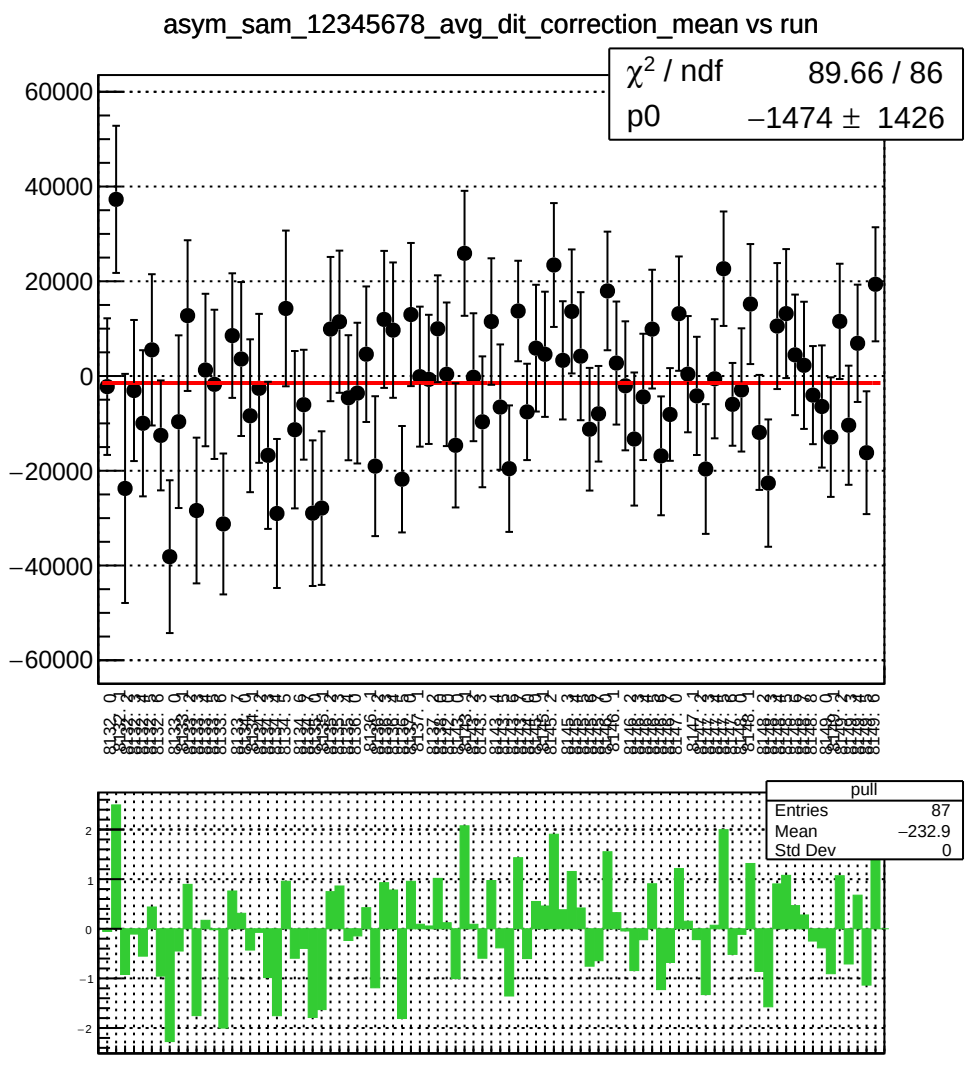

asym_sam_12345678_avg_eigen_cor_correction_mean vs run
χ² / ndf 88.9 / 86
p0 −1458 ± 1414
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −236.4
Std Dev 0
2
1
0
−1
−2

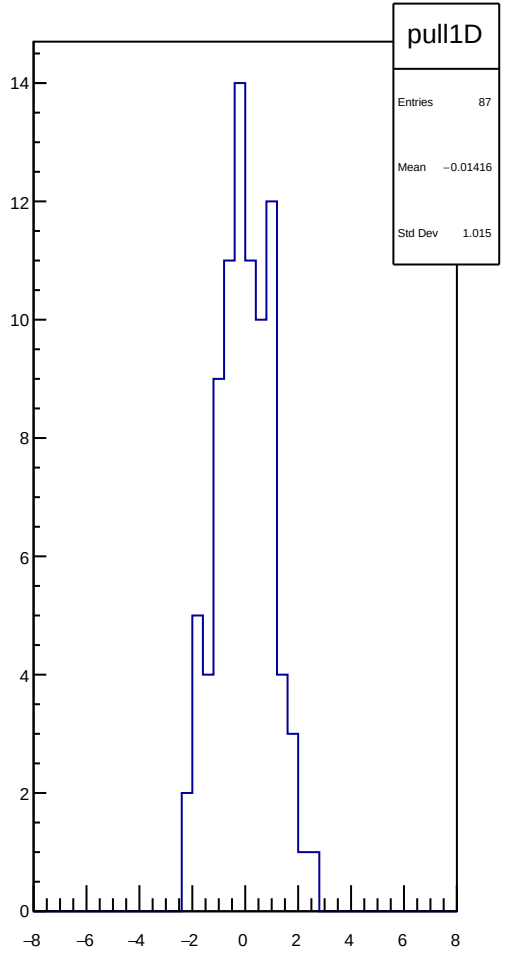

pull1D
Entries 87
Mean −0.01352
Std Dev 1.011
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

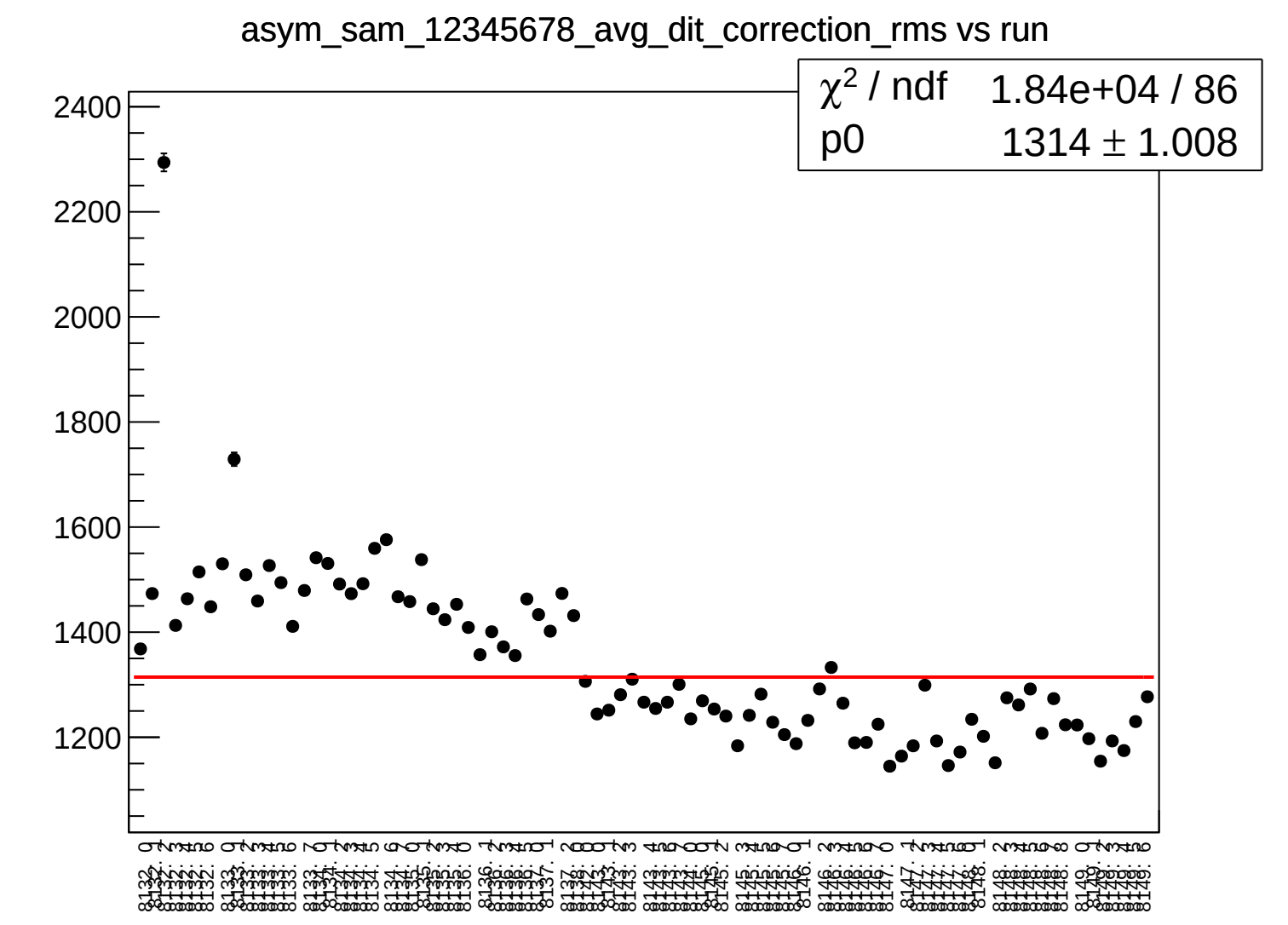

asym_sam_12345678_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.718e+04 / 86
p0 1304 ± 0.9996
2200
2000
1800
1600
1400
1200

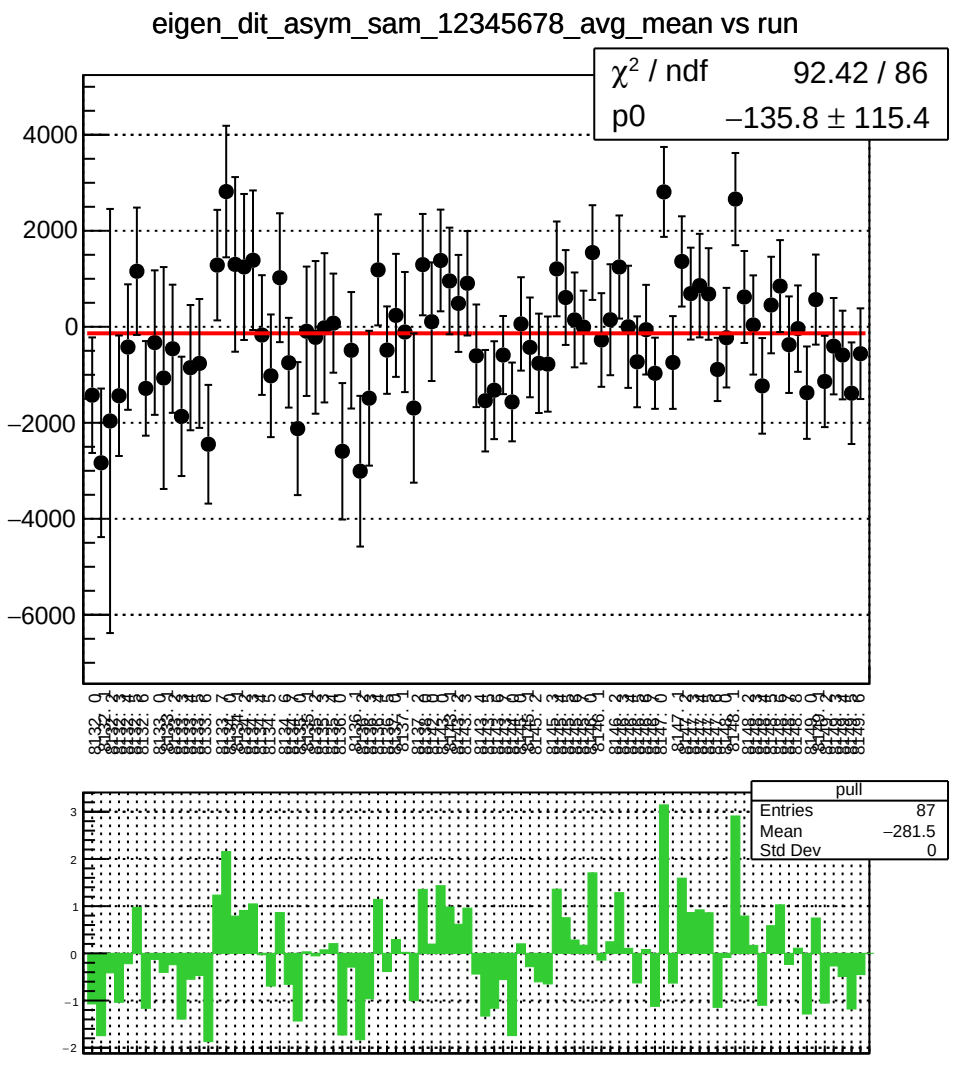

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 92.42 / 86
p0 −135.8 ± 115.4
4000
2000
0
−2000
−4000
−6000
pull
Entries 87
Mean −281.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.01306
Std Dev 1.031
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

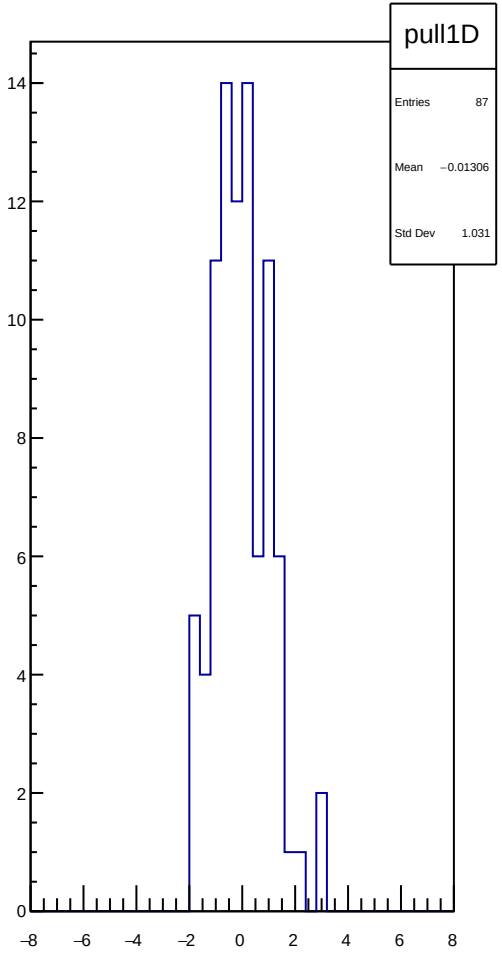

dit_asym_sam_12345678_avg_rms vs run
χ^2 / ndf 5.732e+04 / 86
p0 105.2 ± 0.08161
450
400
350
300
250
200
150
100

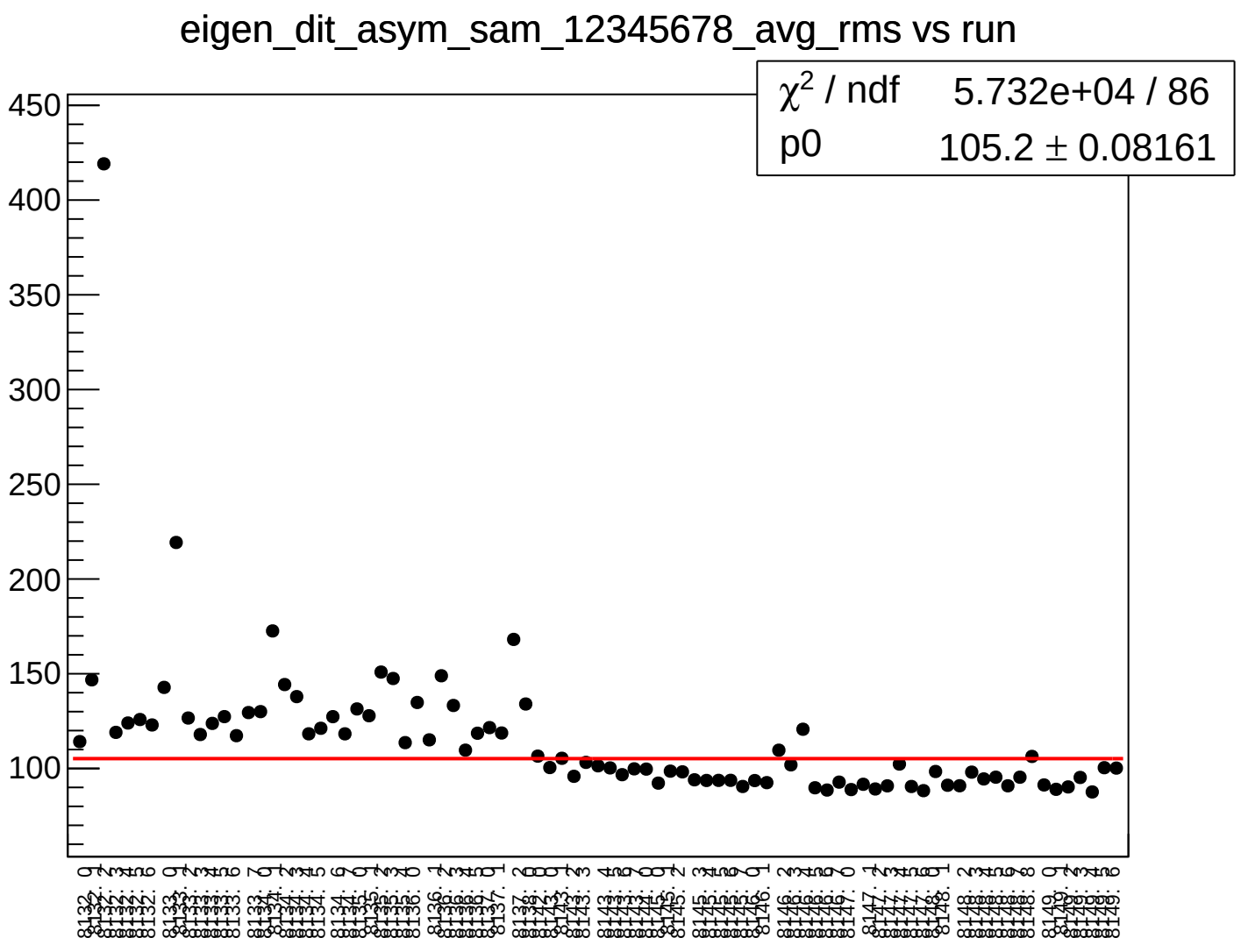

asym_sam_12345678_avg_dit_correction_mean vs run
χ² / ndf 89.66 / 86
p0 −1474 ± 1426
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −232.9
Std Dev 0
2
1
0
−1
−2

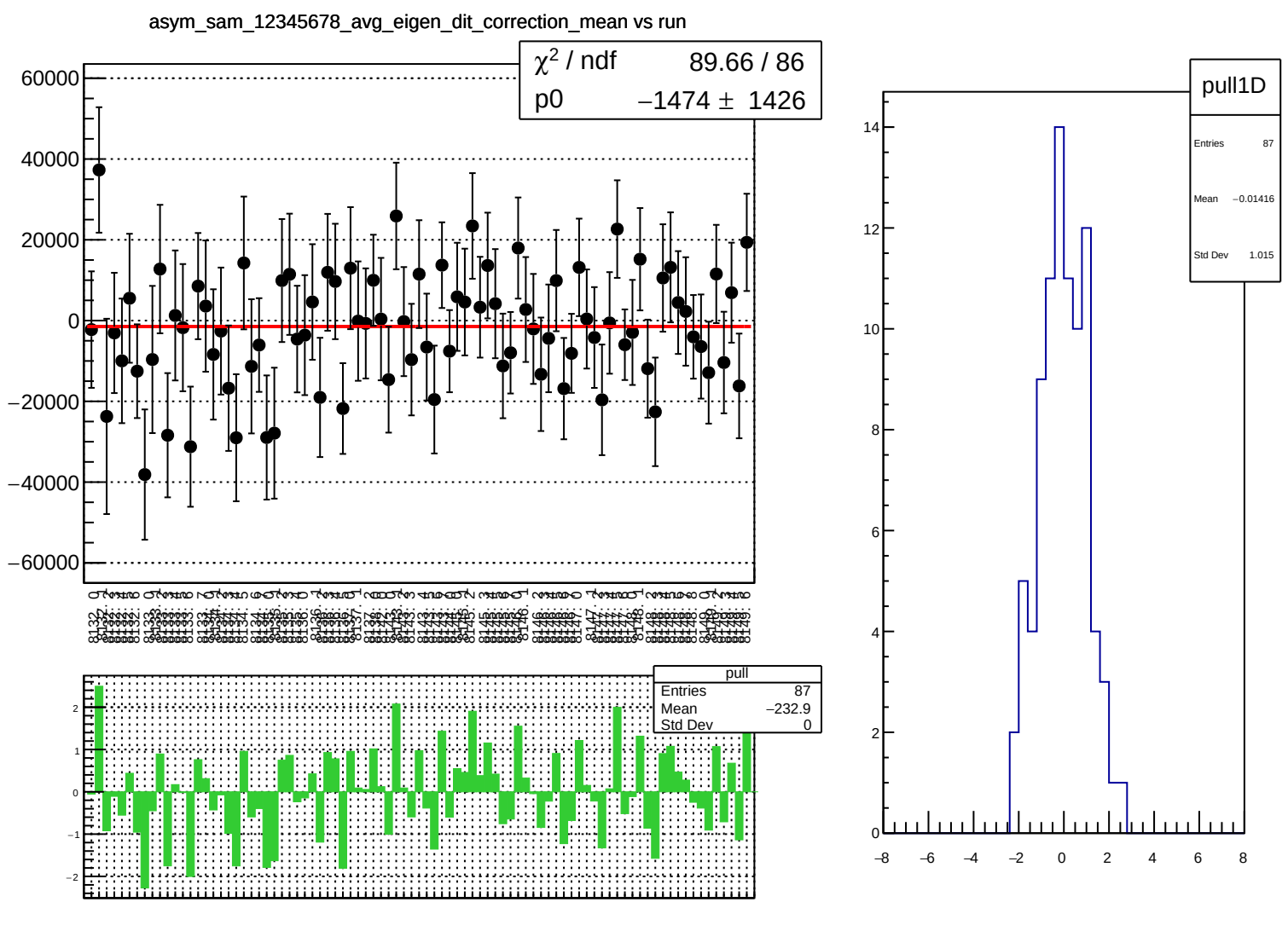

pull1D
Entries 87
Mean −0.01416
Std Dev 1.015
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

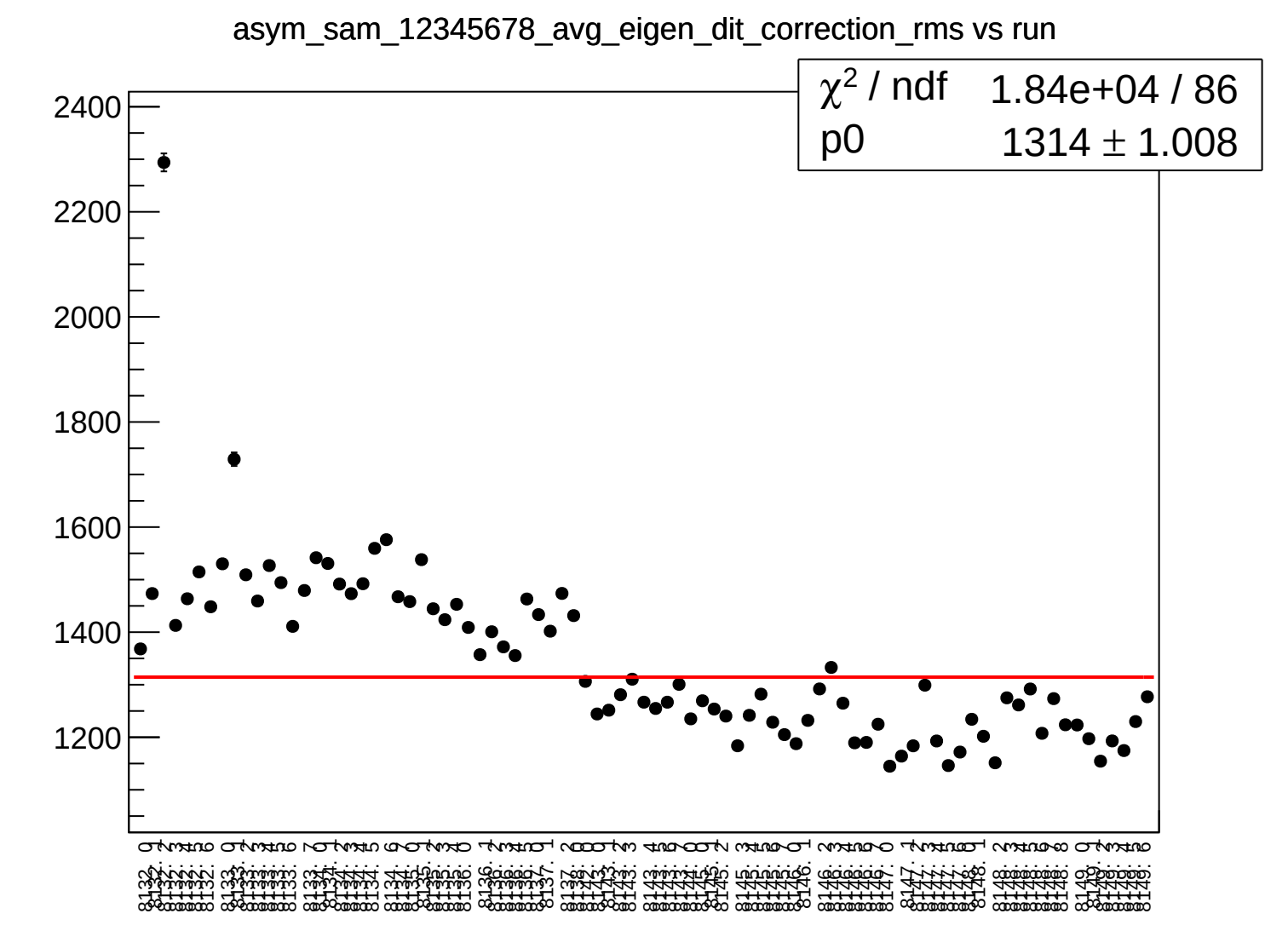

asym_sam_12345678_avg_dit_correction_rms vs run
χ² / ndf 1.84e+04 / 86
p0 1314 ± 1.008
2400
2200
2000
1800
1600
1400
1200

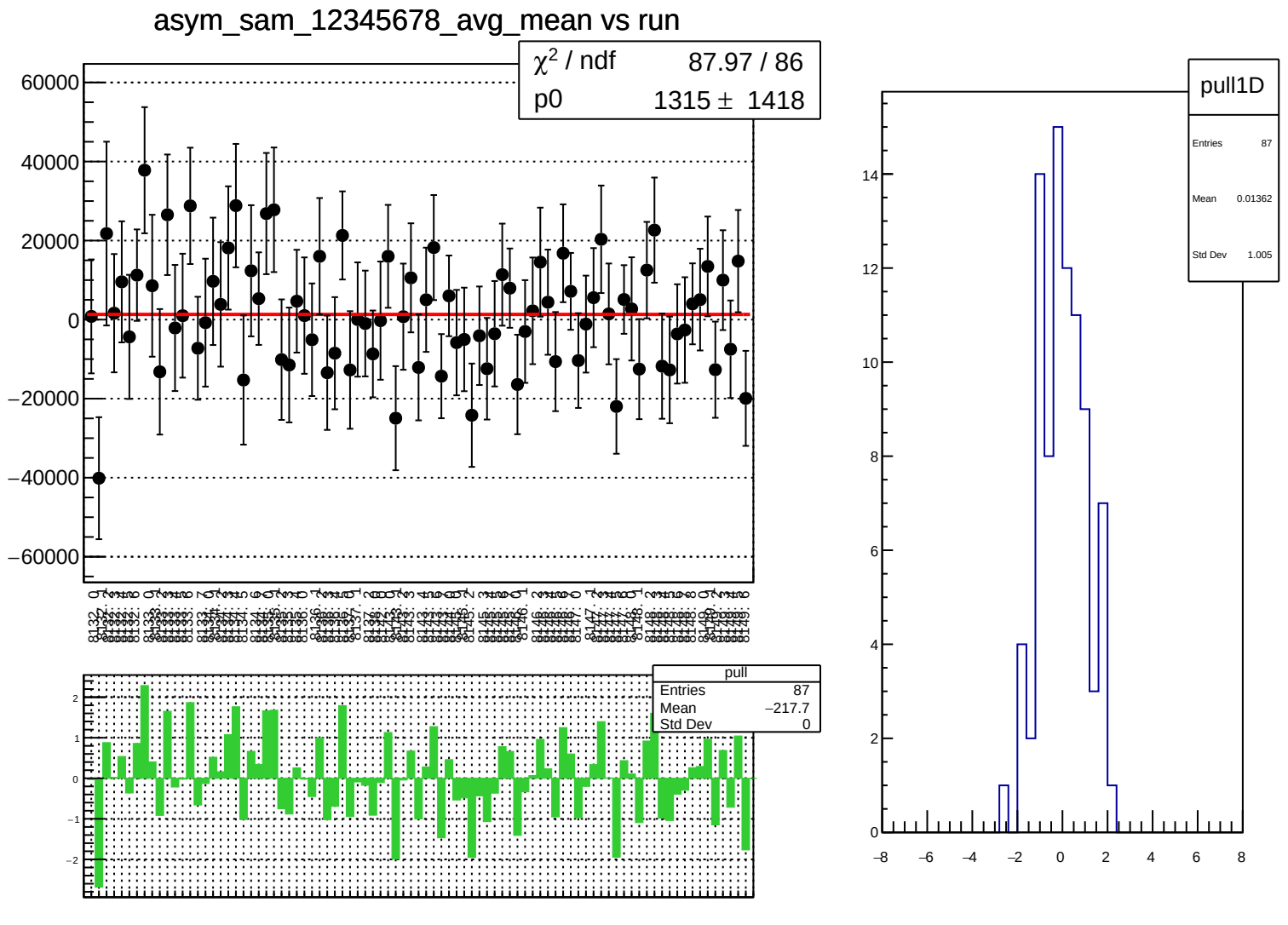

eigen_dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 92.42 / 86
p0 −135.8 ± 115.4
4000
2000
0
−2000
−4000
−6000
pull
Entries 87
Mean −281.5
Std Dev 0
3
2
1
0
−1
−2

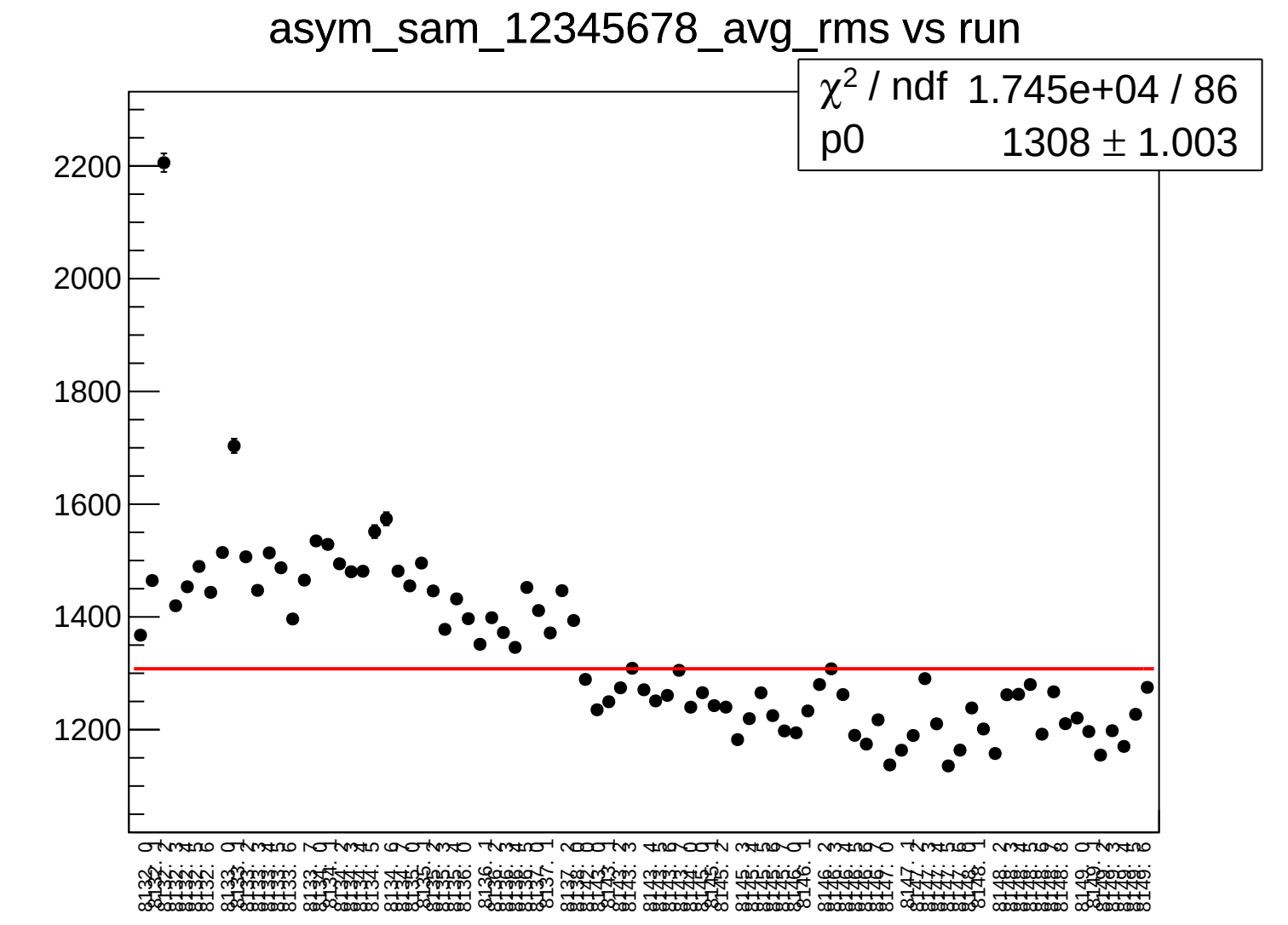

pull1D
Entries 87
Mean −0.01306
Std Dev 1.031
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

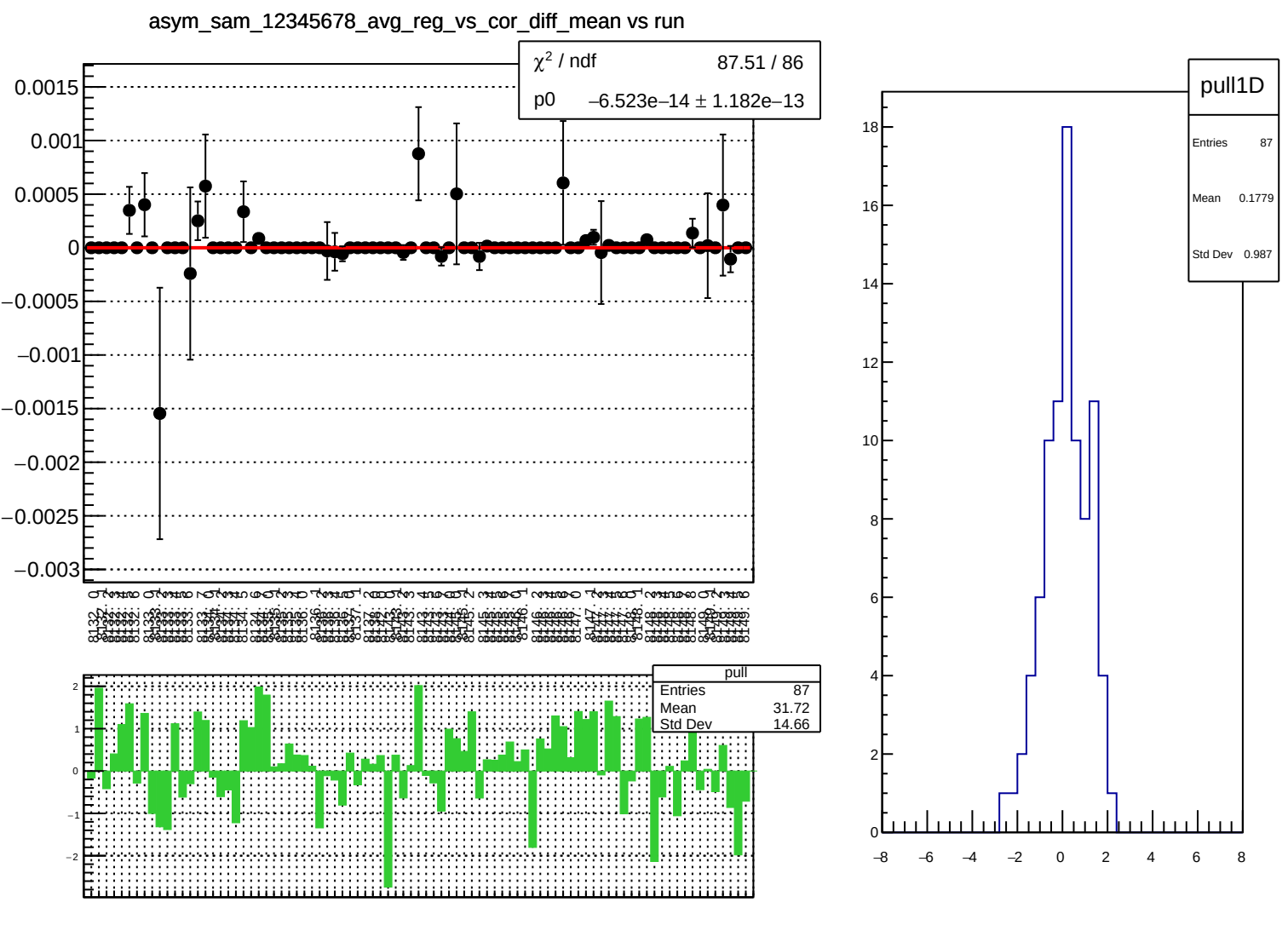

eigen_dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 5.732e+04 / 86
p0 105.2 ± 0.08161
450
400
350
300
250
200
150
100

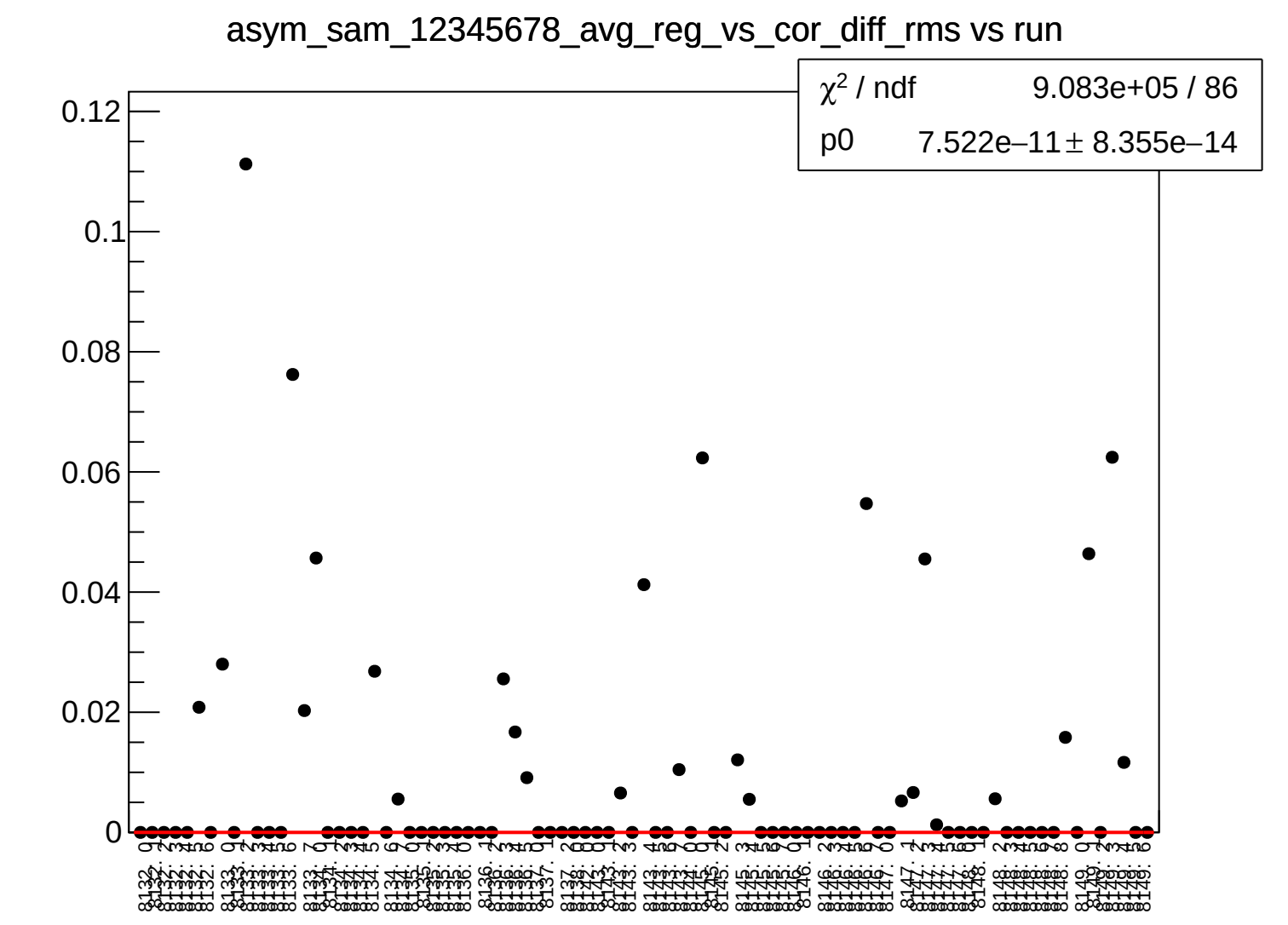

asym_sam_12345678_avg_eigen_dit_correction_mean vs run
χ² / ndf 89.66 / 86
p0 −1474 ± 1426
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −232.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.01416
Std Dev 1.015
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

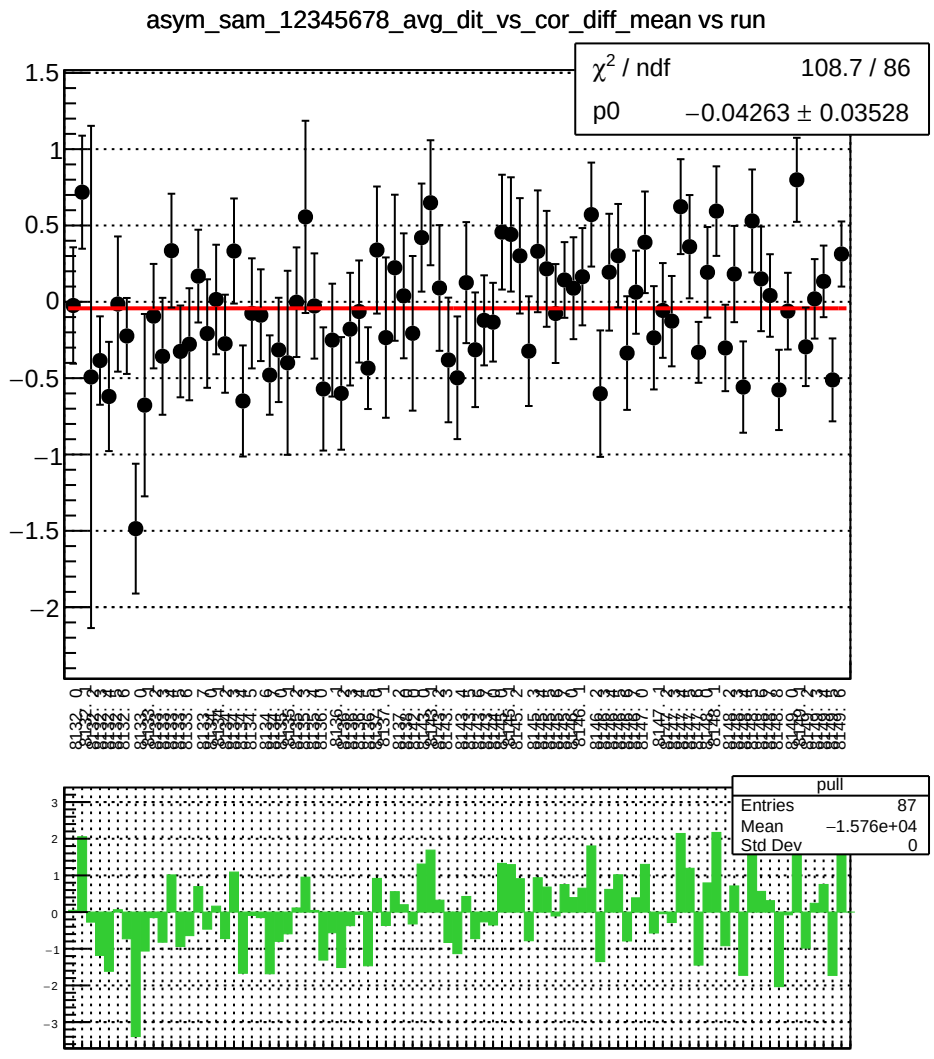

asym_sam_12345678_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.84e+04 / 86
p0 1314 ± 1.008
2400
2200
2000
1800
1600
1400
1200

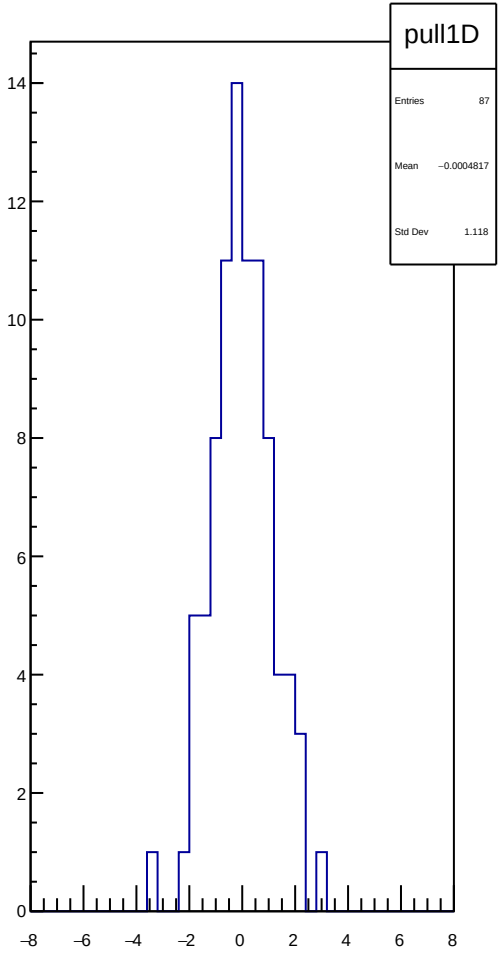

asym_sam_12345678_avg_mean vs run
χ² / ndf 87.97 / 86
p0 1315 ± 1418
pull
Entries 87
Mean −217.7
Std Dev 0
pull1D
Entries 87
Mean 0.01362
Std Dev 1.005

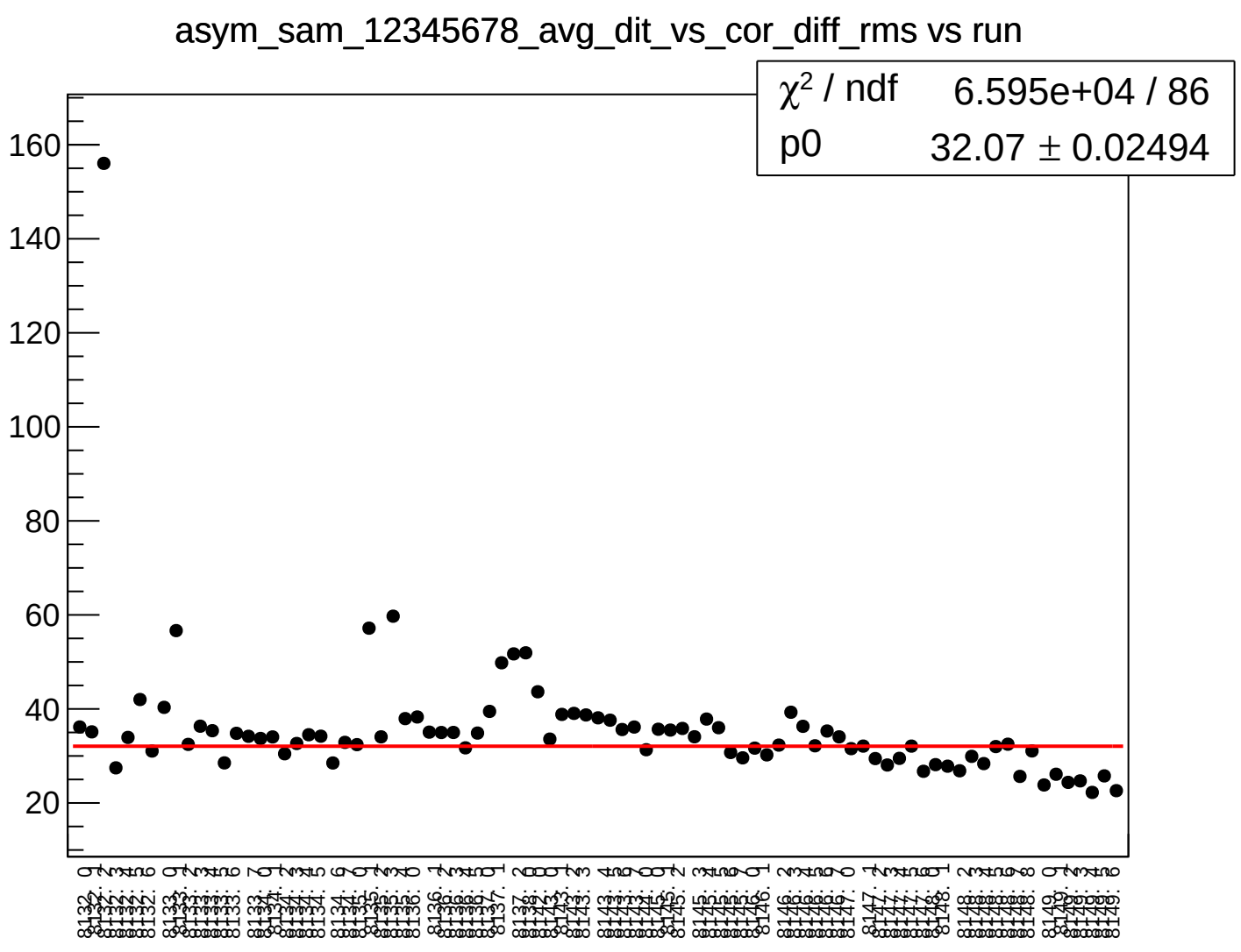

asym_sam_12345678_avg_rms vs run
χ^2 / ndf 1.745e+04 / 86
p0 1308 ± 1.003
2200
2000
1800
1600
1400
1200

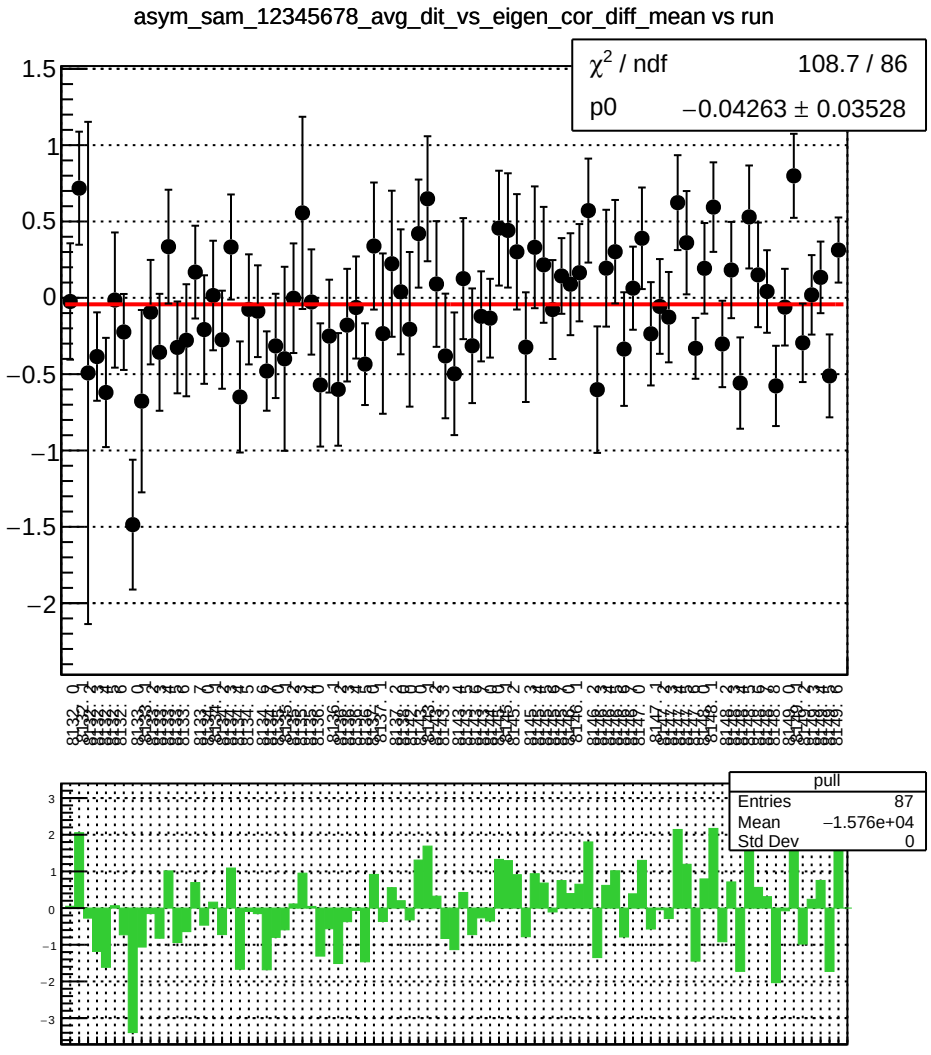

asym_sam_12345678_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 87.51 / 86
p0 −6.523e−14 ± 1.182e−13
pull
Entries 87
Mean 31.72
Std Dev 14.66
pull1D
Entries 87
Mean 0.1779
Std Dev 0.987

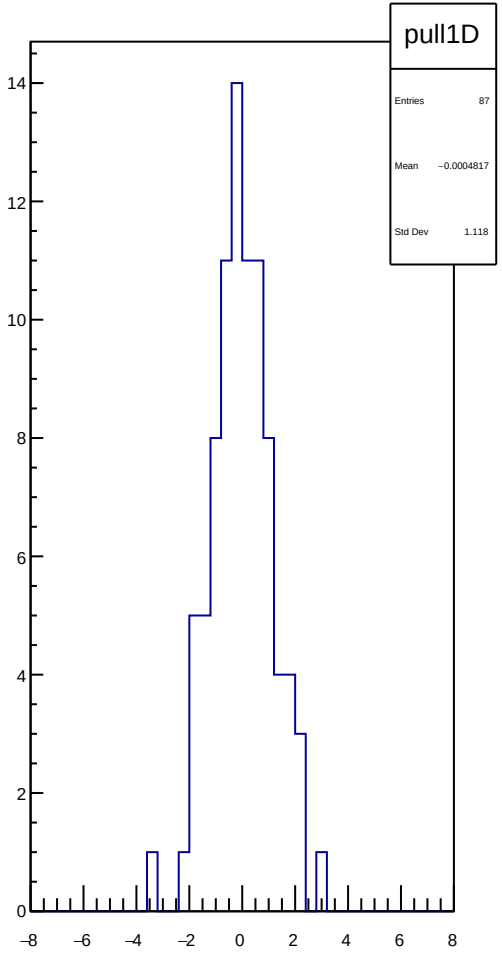

asym_sam_12345678_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.083e+05 / 86
p0 7.522e−11 ± 8.355e−14
0.12
0.1
0.08
0.06
0.04
0.02
0

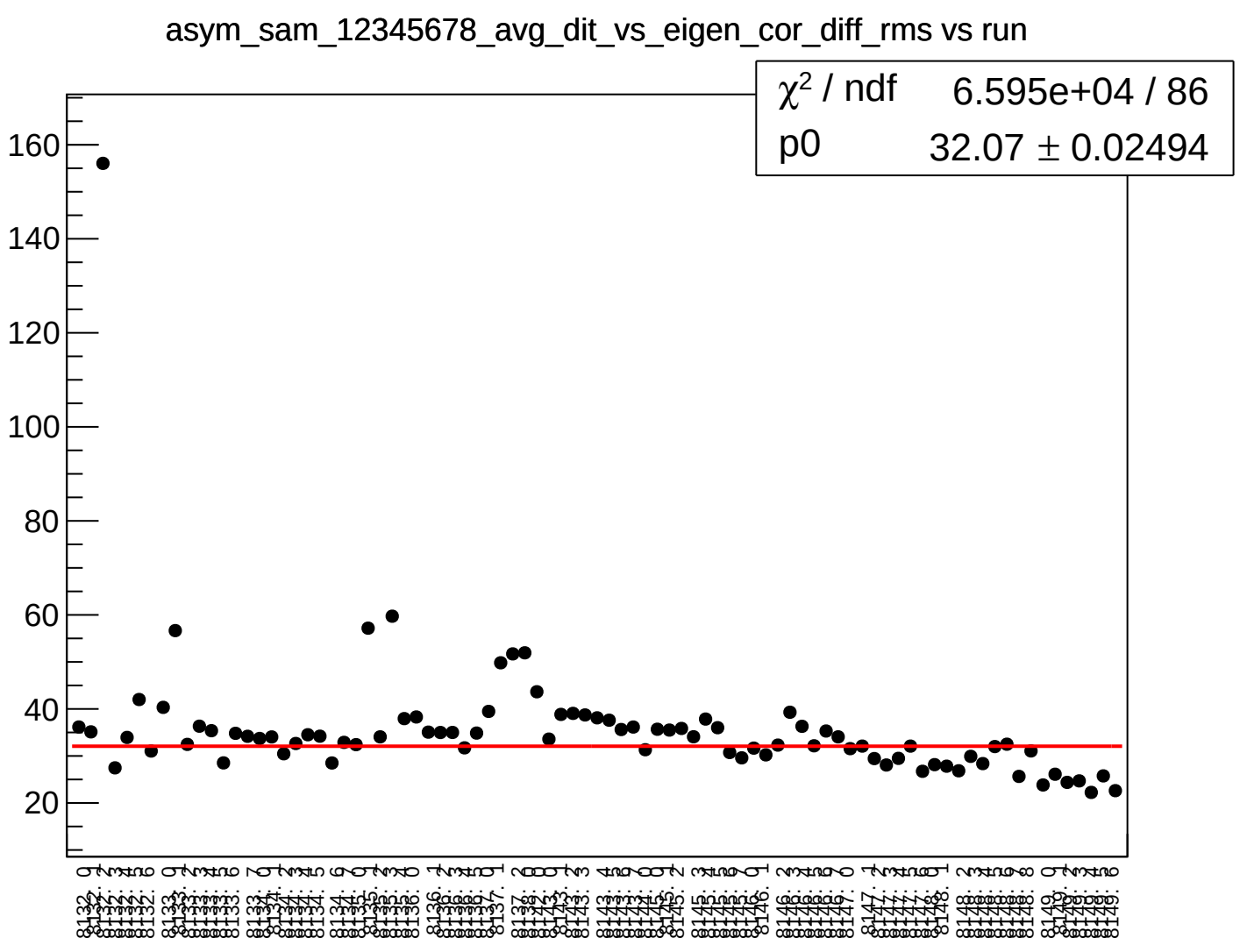

asym_sam_12345678_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 108.7 / 86
p0 −0.04263 ± 0.03528
pull
Entries 87
Mean −1.576e+04
Std Dev 0

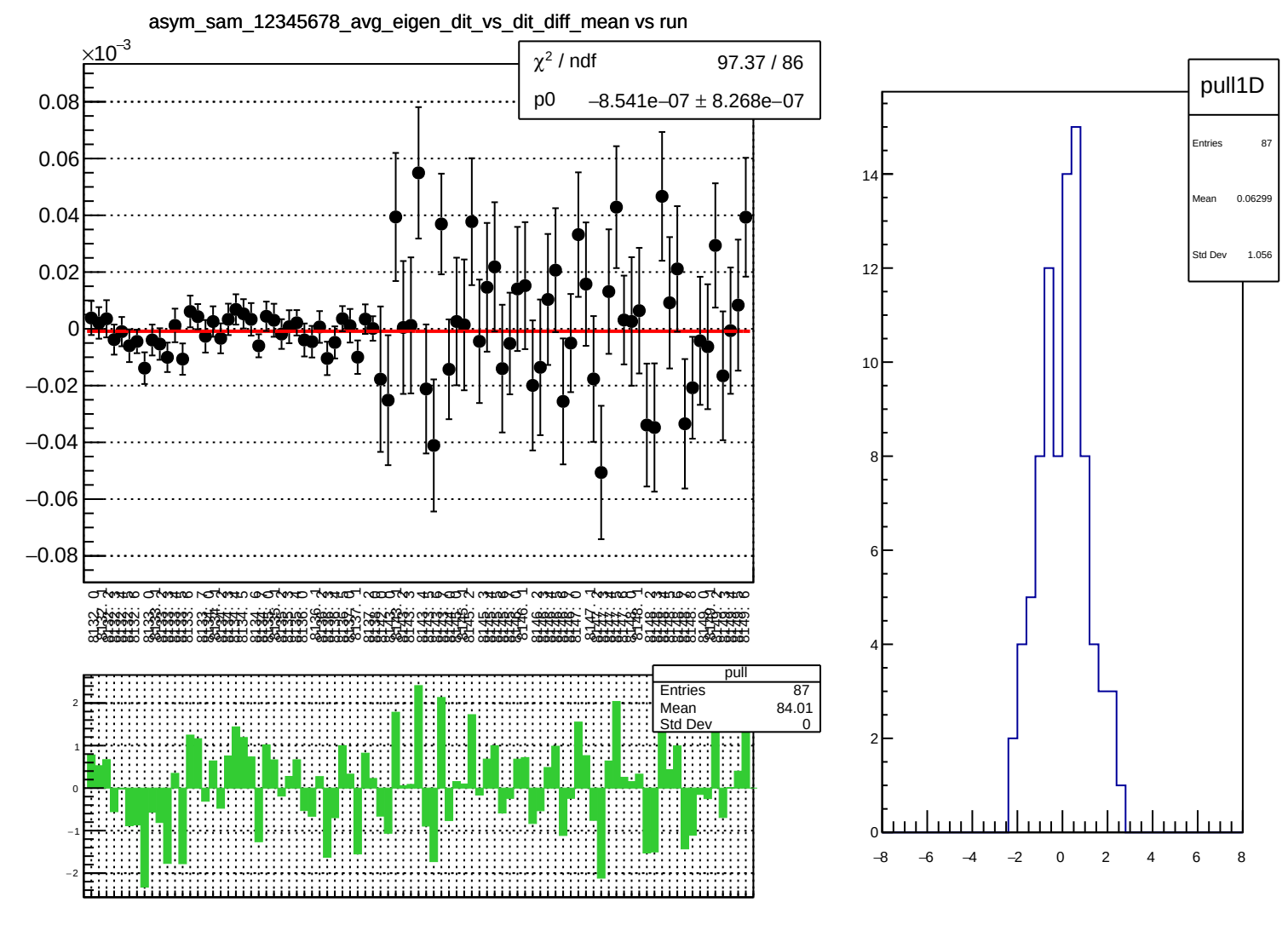

pull1D
Entries 87
Mean −0.0004817
Std Dev 1.118

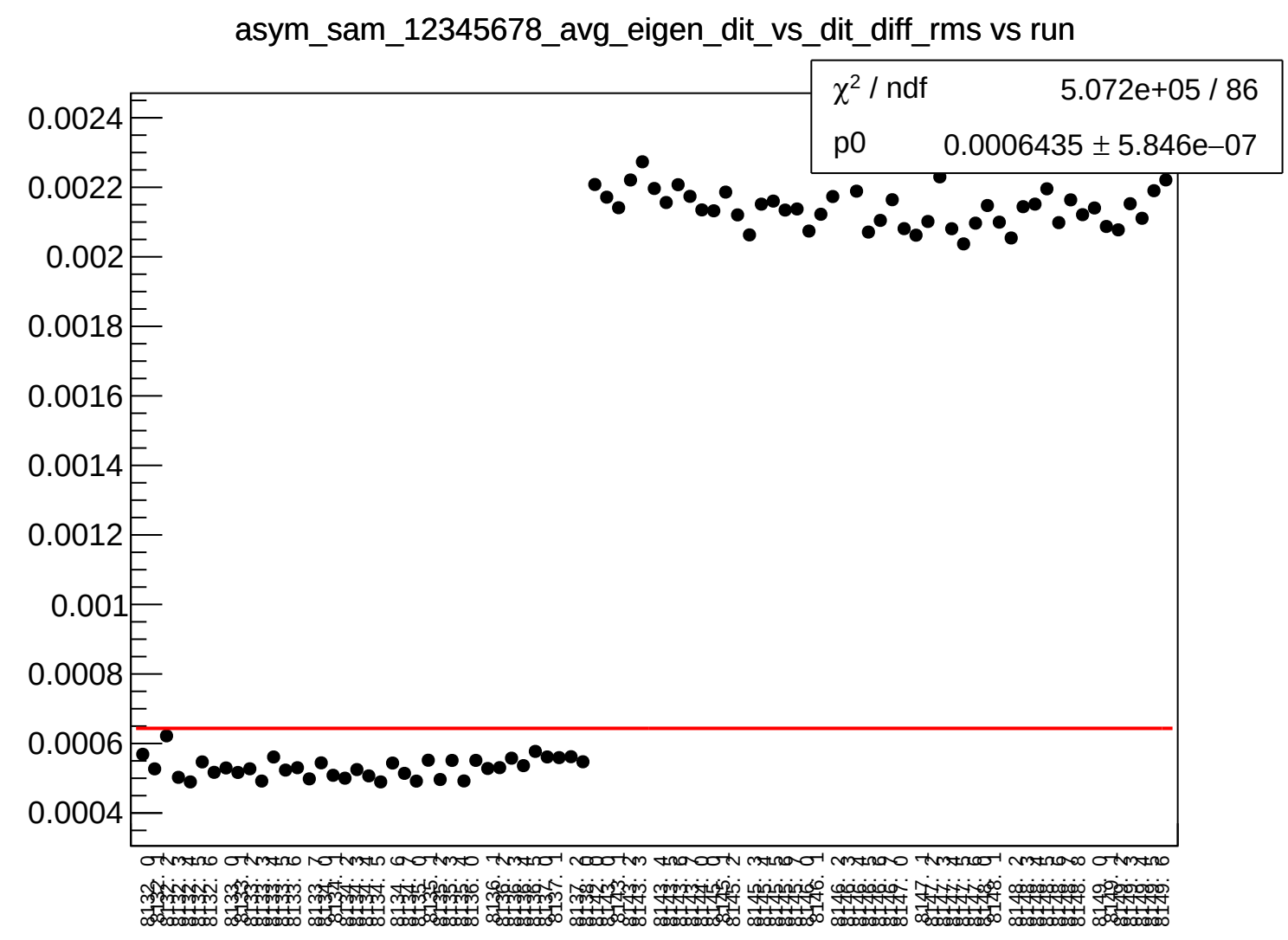

asym_sam_12345678_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.595e+04 / 86
p0 32.07 ± 0.02494
160
140
120
100
80
60
40
20

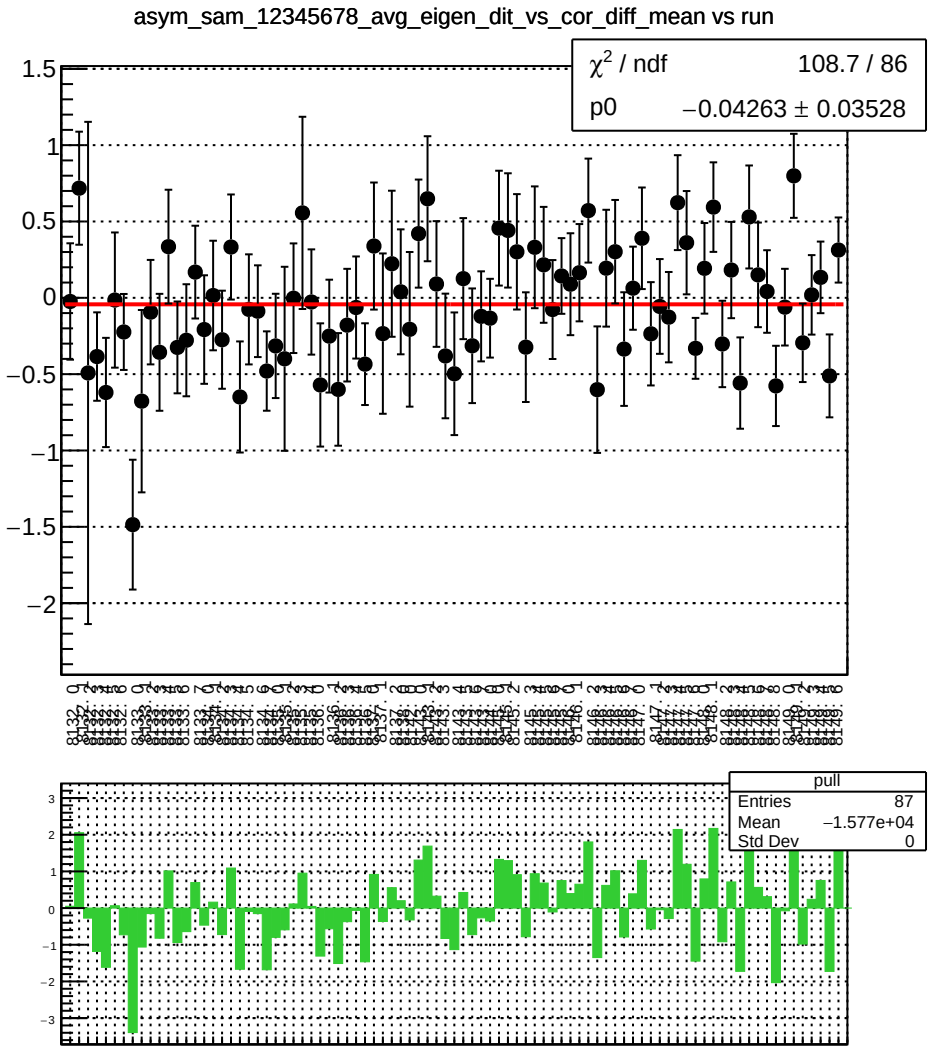

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 108.7 / 86
p0 −0.04263 ± 0.03528
pull
Entries 87
Mean −1.576e+04
Std Dev 0

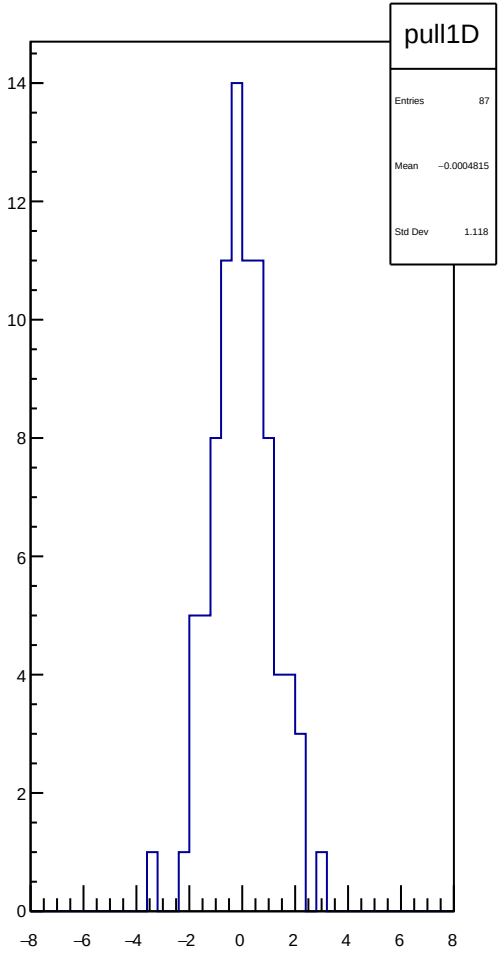

pull1D
Entries 87
Mean −0.0004817
Std Dev 1.118

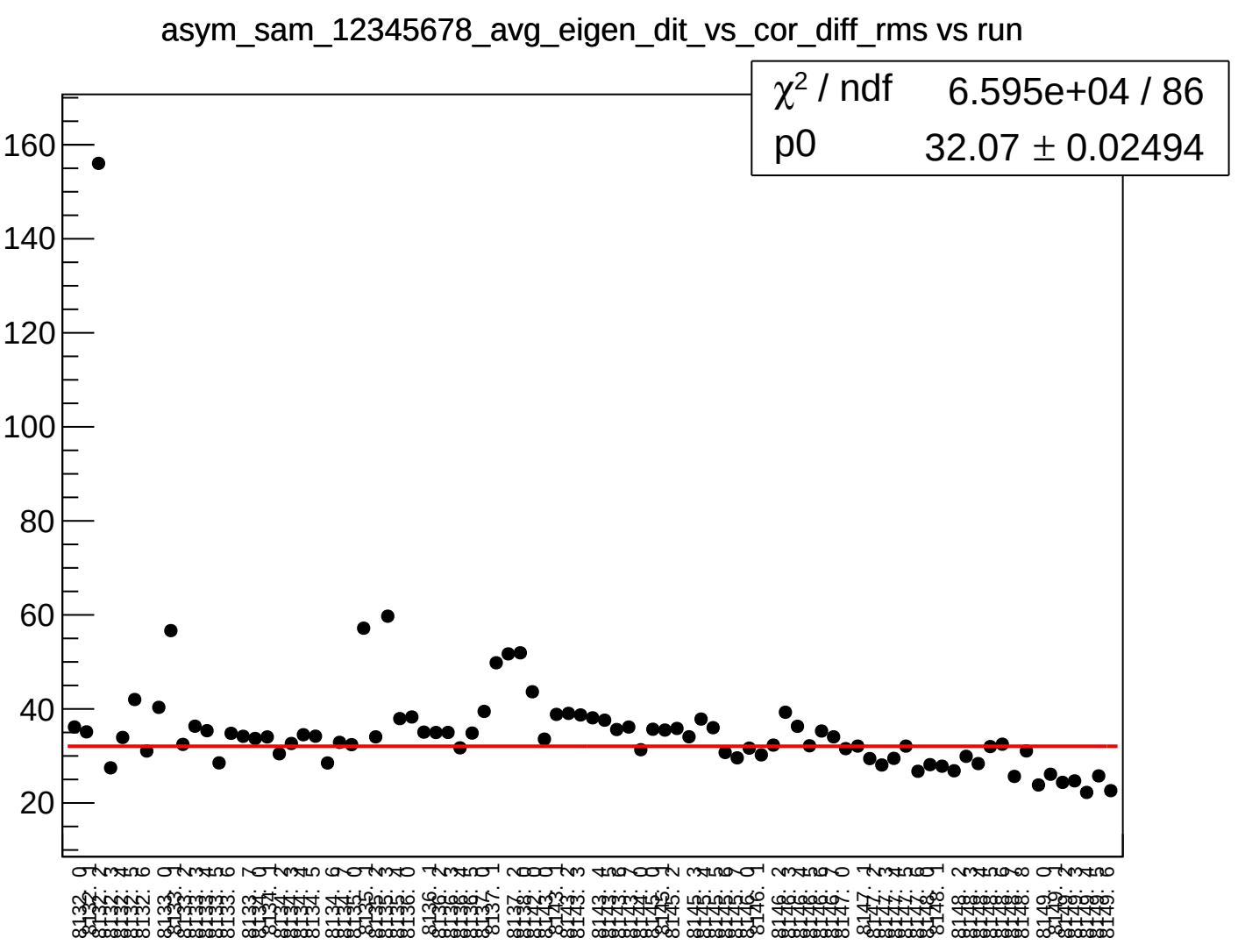

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.595e+04 / 86
p0 32.07 ± 0.02494
160
140
120
100
80
60
40
20

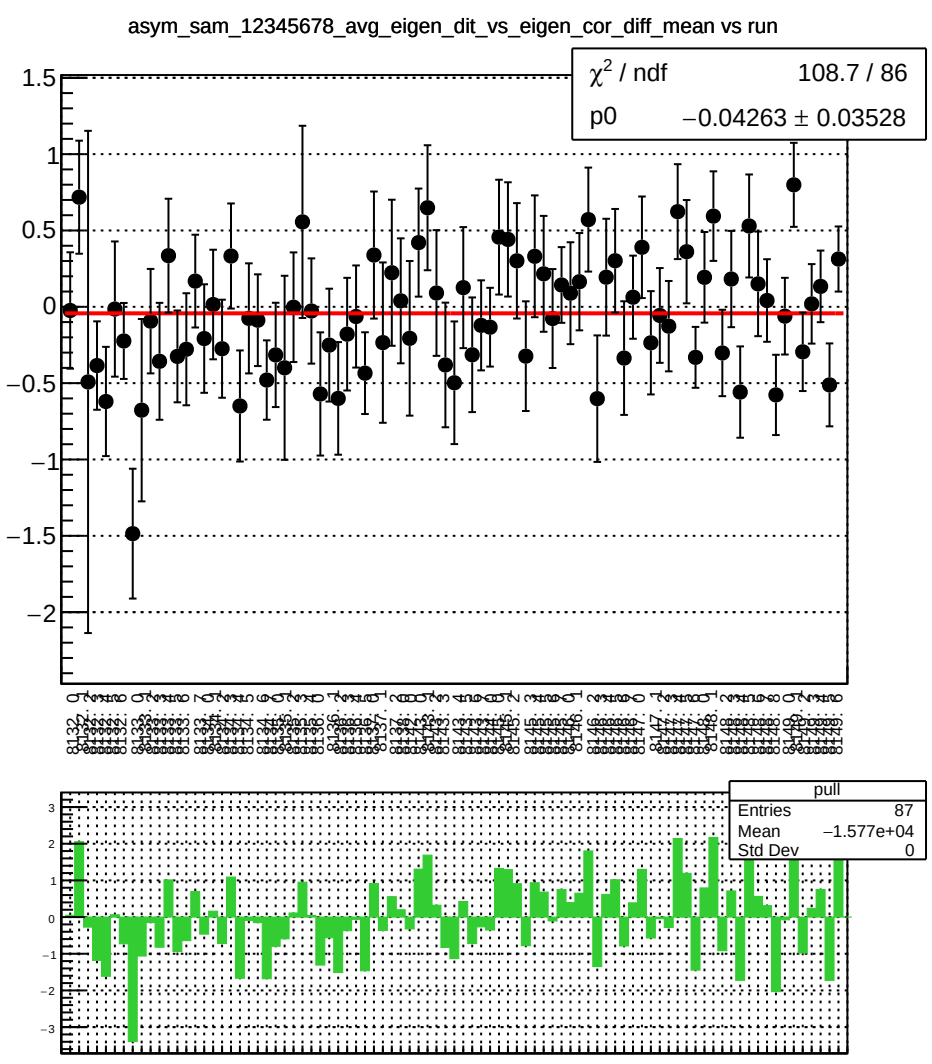

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.37 / 86
p0 −8.541e−07 ± 8.268e−07
pull
Entries 87
Mean 84.01
Std Dev 0
pull1D
Entries 87
Mean 0.06299
Std Dev 1.056

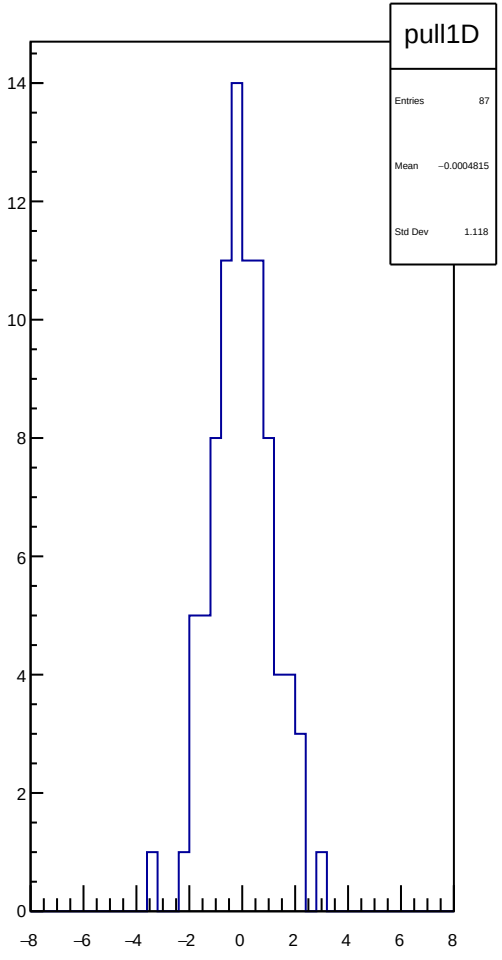

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.072e+05 / 86
p0 0.0006435 ± 5.846e−07
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004

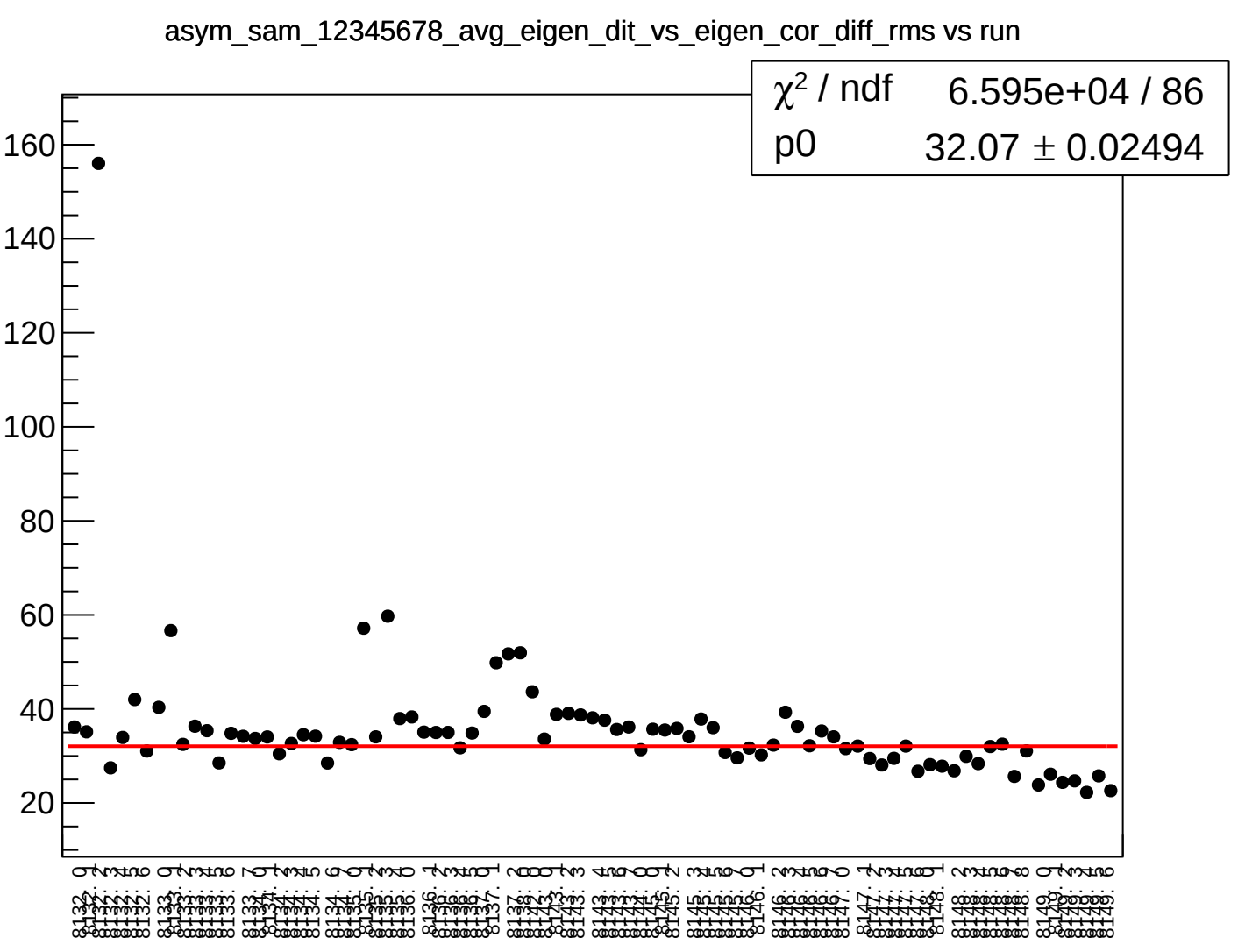

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 108.7 / 86
p0 −0.04263 ± 0.03528
pull
Entries 87
Mean −1.577e+04
Std Dev 0

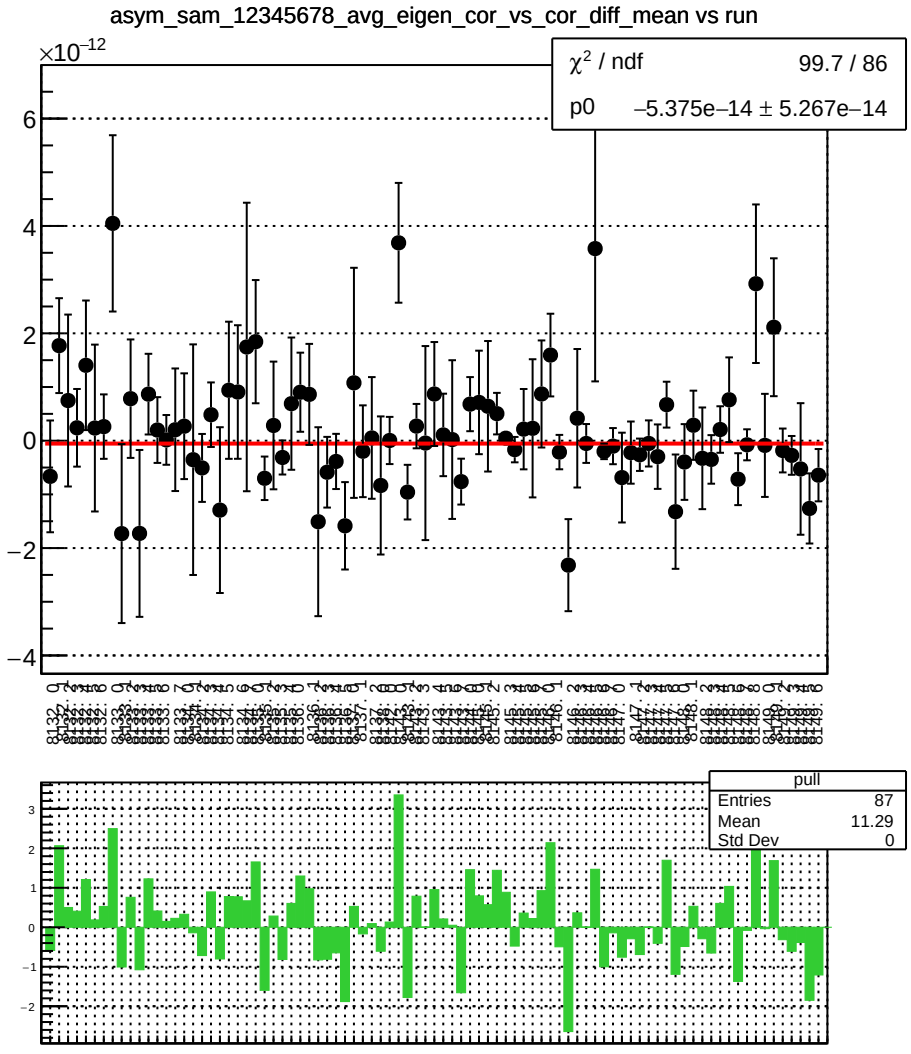

pull1D
Entries 87
Mean −0.0004815
Std Dev 1.118

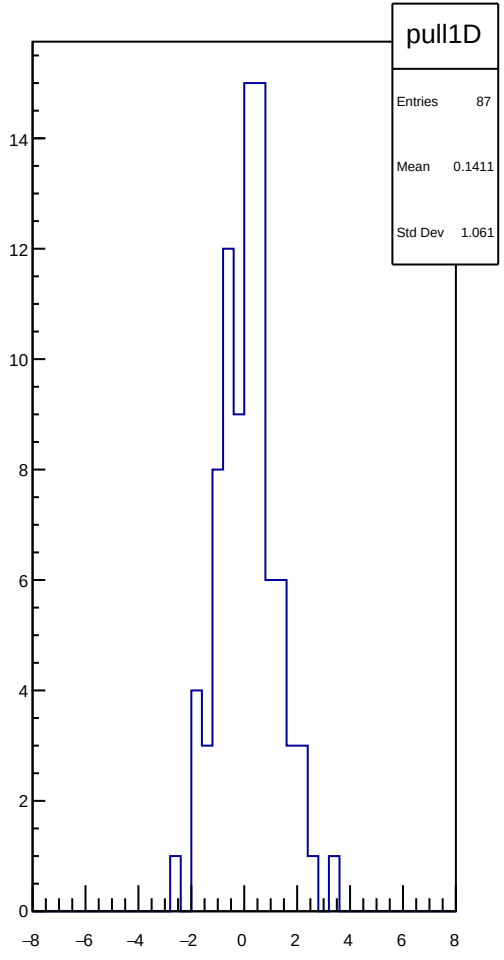

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.595e+04 / 86
p0 32.07 ± 0.02494
160
140
120
100
80
60
40
20

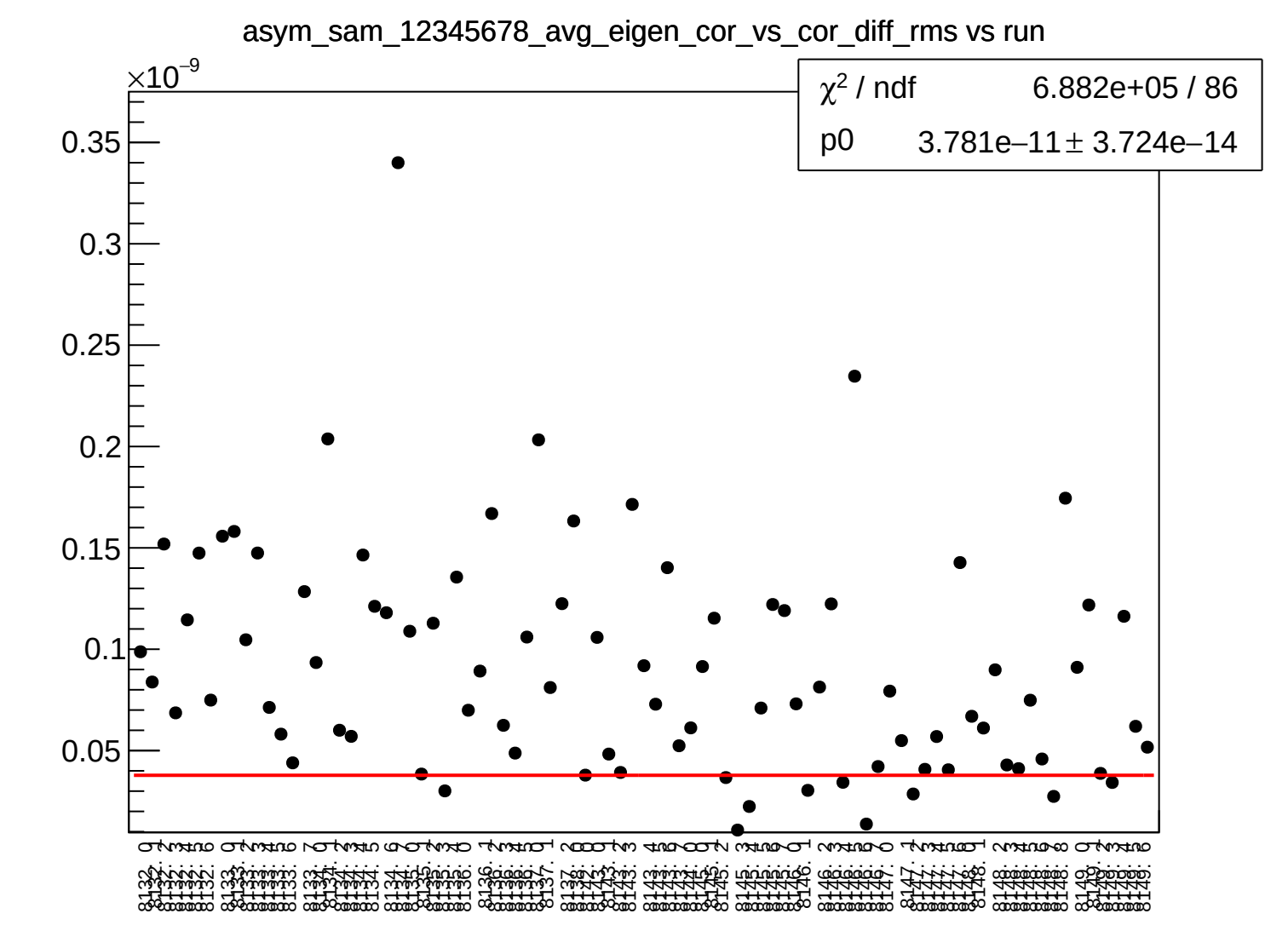

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 108.7 / 86
p0 −0.04263 ± 0.03528
pull
Entries 87
Mean −1.577e+04
Std Dev 0

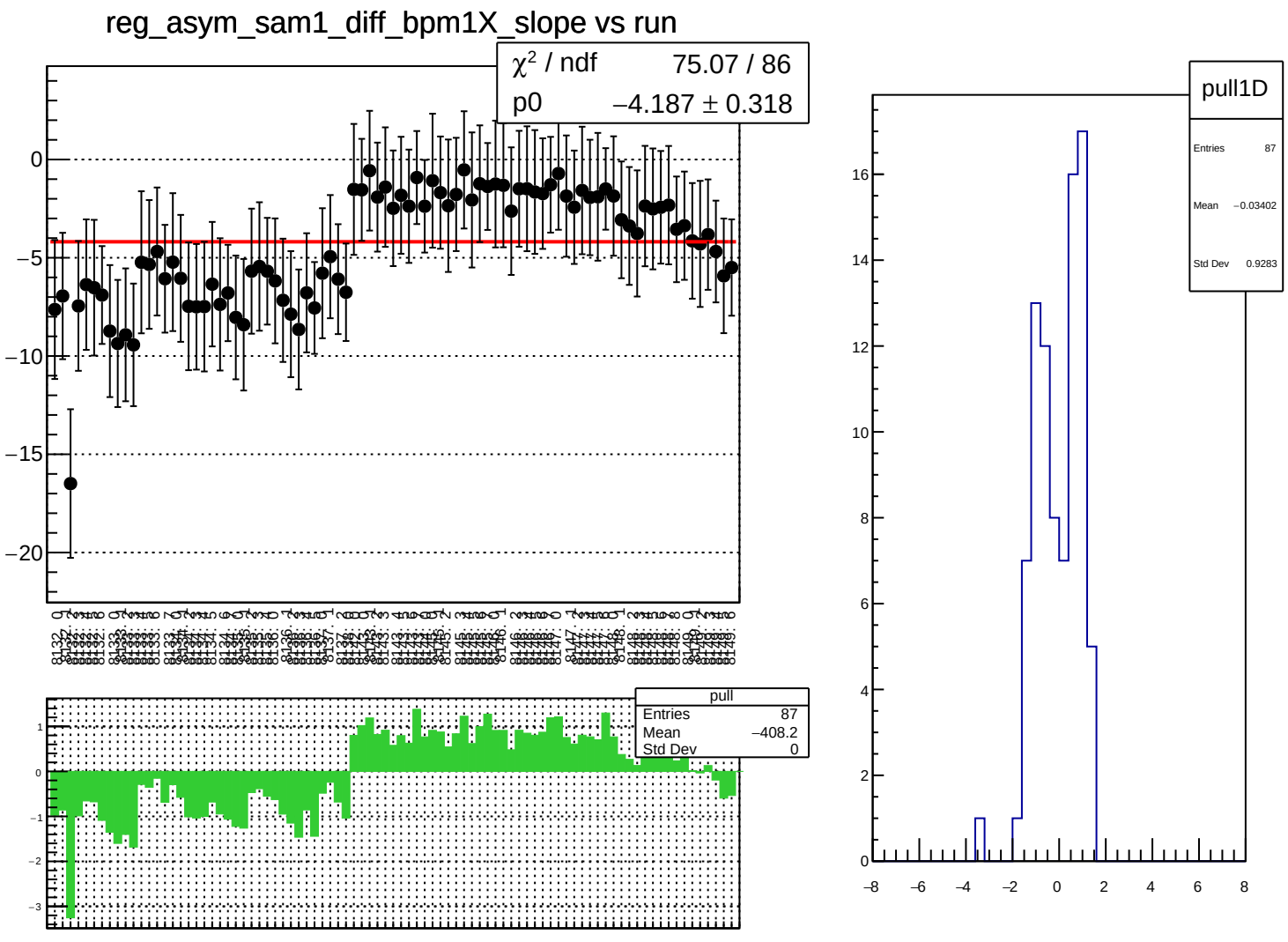

pull1D
Entries 87
Mean −0.0004815
Std Dev 1.118

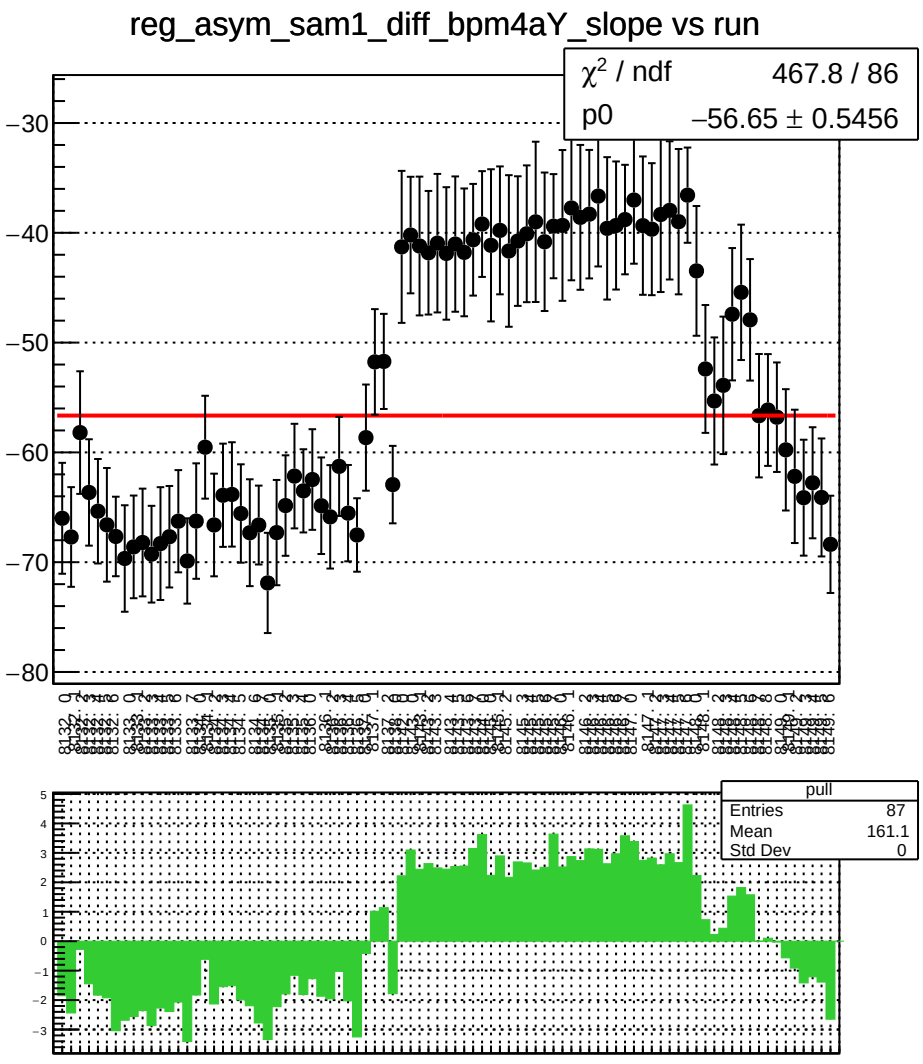

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.595e+04 / 86
p0 32.07 ± 0.02494
160
140
120
100
80
60
40
20

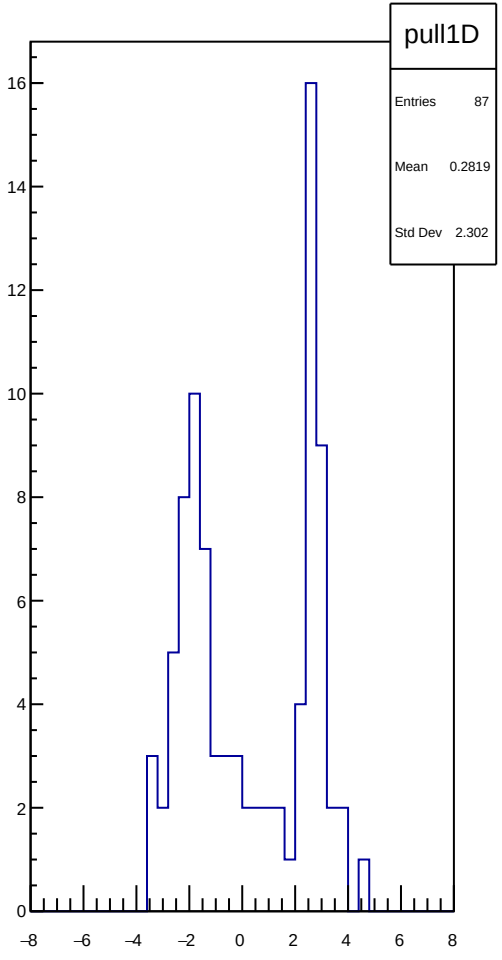

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.7 / 86
p0 −5.375e−14 ± 5.267e−14
pull
Entries 87
Mean 11.29
Std Dev 0

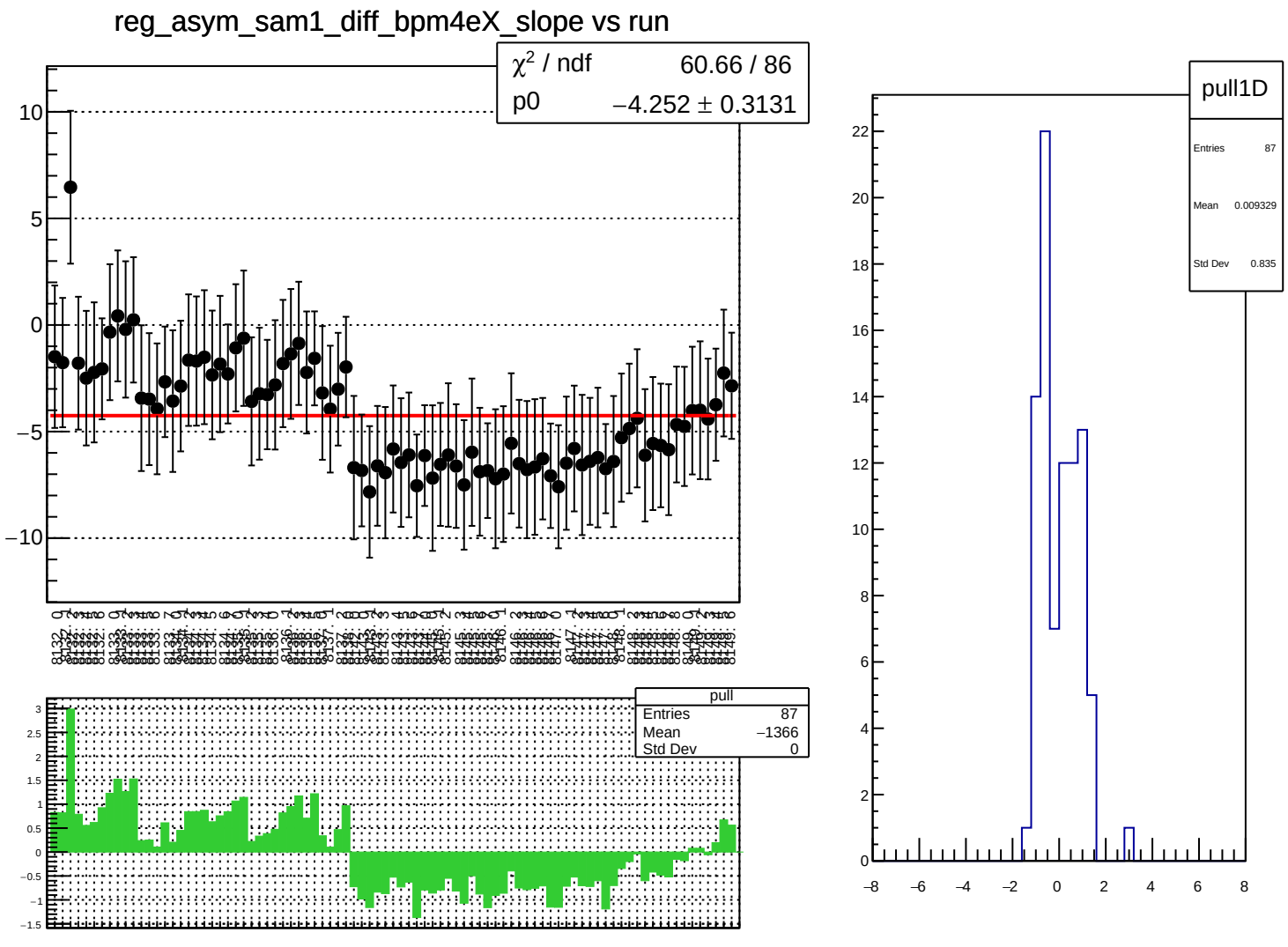

pull1D
Entries 87
Mean 0.1411
Std Dev 1.061

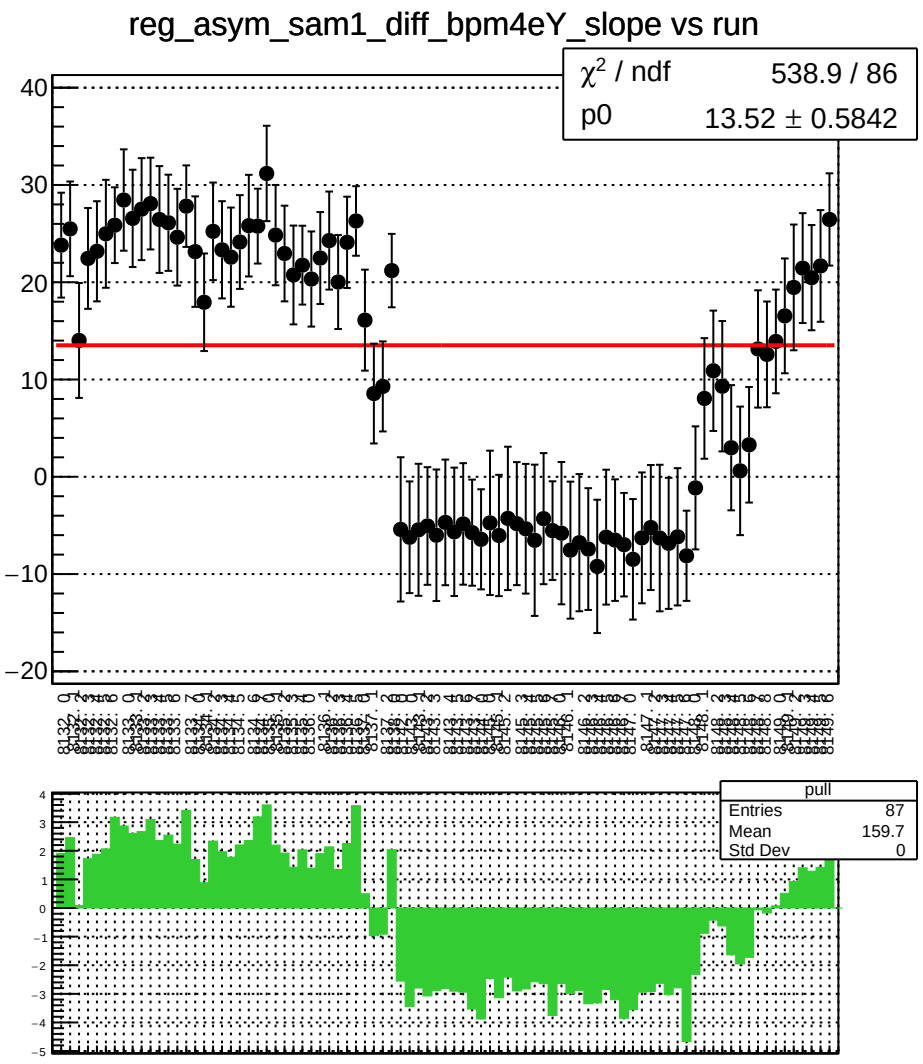

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.882e+05 / 86
p0 3.781e−11 ± 3.724e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

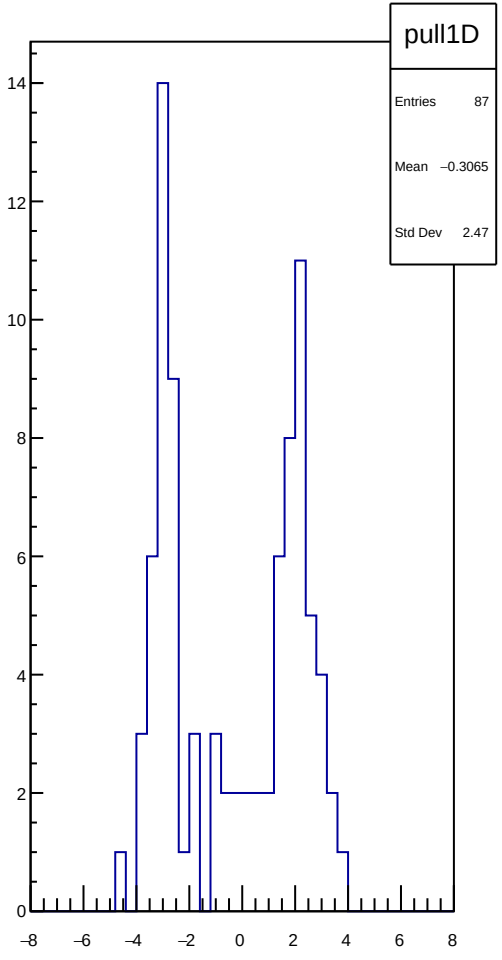

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 75.07 / 86
p0 −4.187 ± 0.318
pull
Entries 87
Mean −408.2
Std Dev 0
pull1D
Entries 87
Mean −0.03402
Std Dev 0.9283

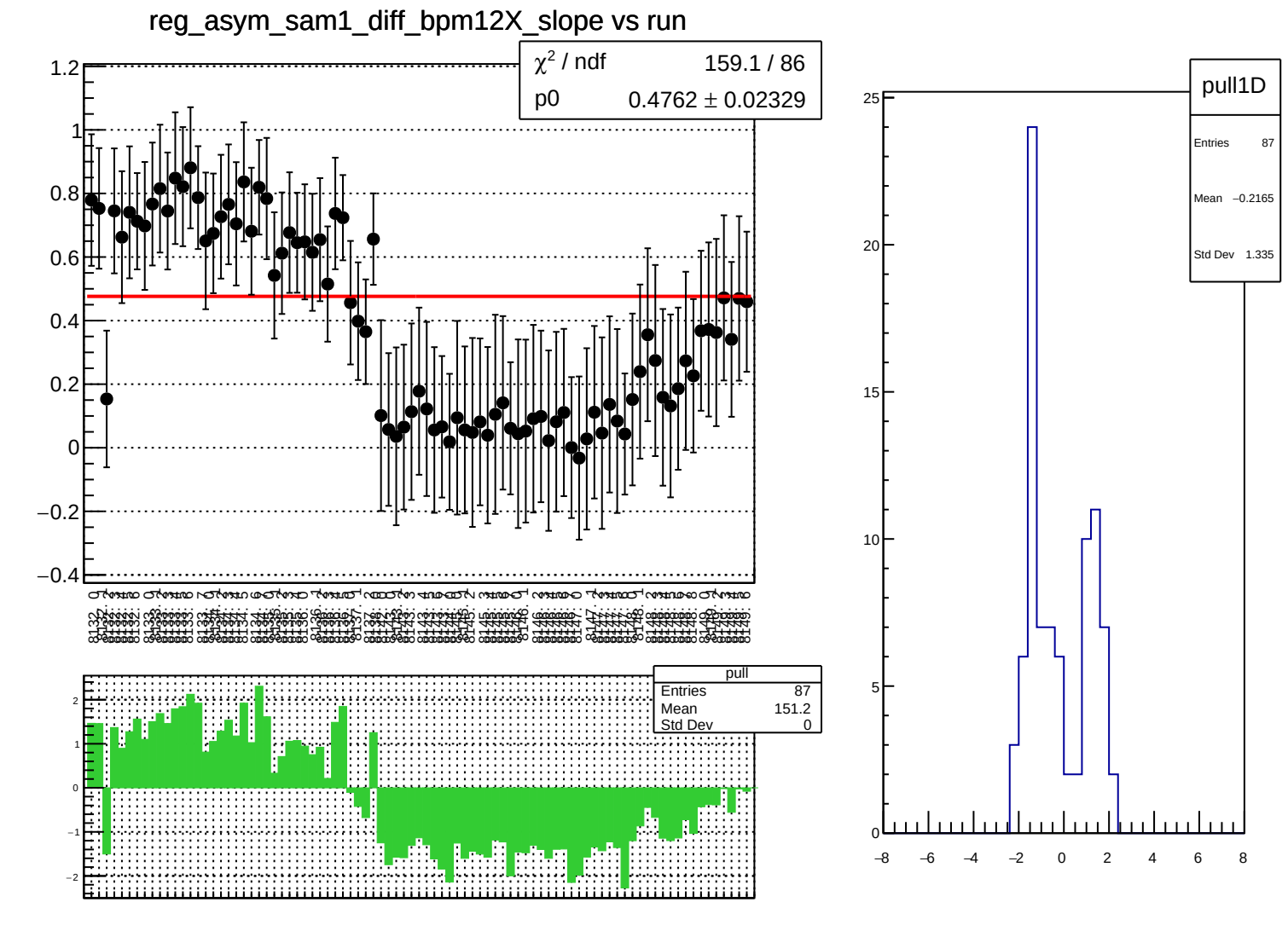

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 467.8 / 86
p0 −56.65 ± 0.5456
pull
Entries 87
Mean 161.1
Std Dev 0

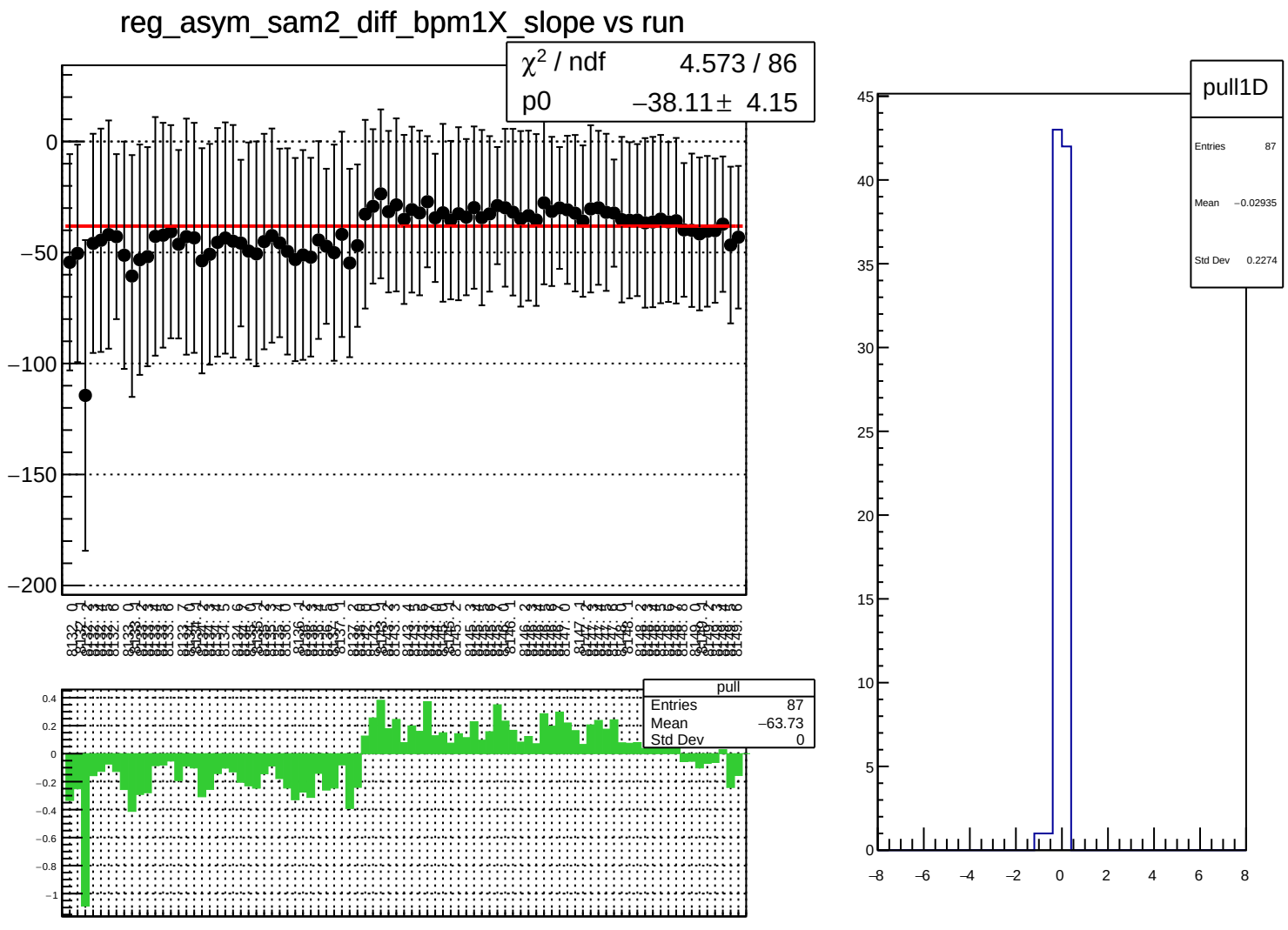

pull1D
Entries 87
Mean 0.2819
Std Dev 2.302

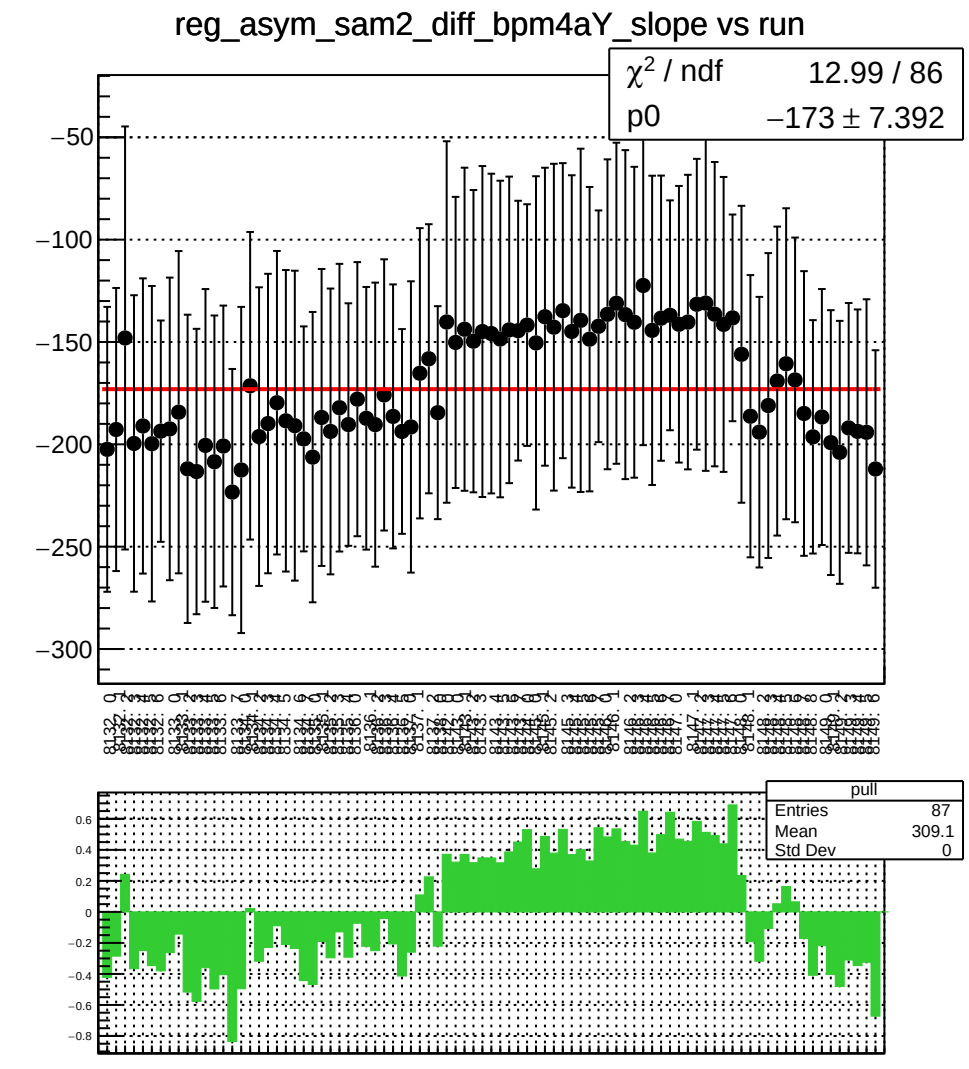

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 60.66 / 86
p0 −4.252 ± 0.3131
pull
Entries 87
Mean −1366
Std Dev 0
pull1D
Entries 87
Mean 0.009329
Std Dev 0.835

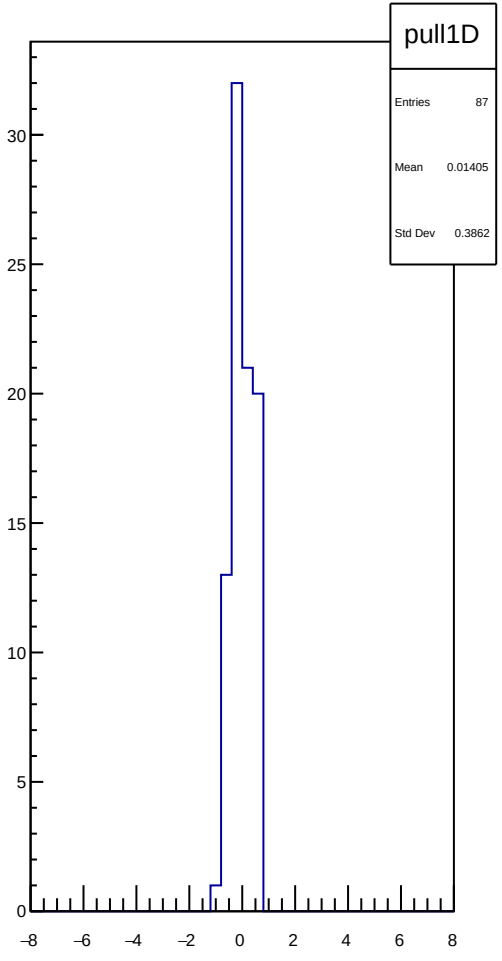

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 538.9 / 86
p0 13.52 ± 0.5842
pull
Entries 87
Mean 159.7
Std Dev 0

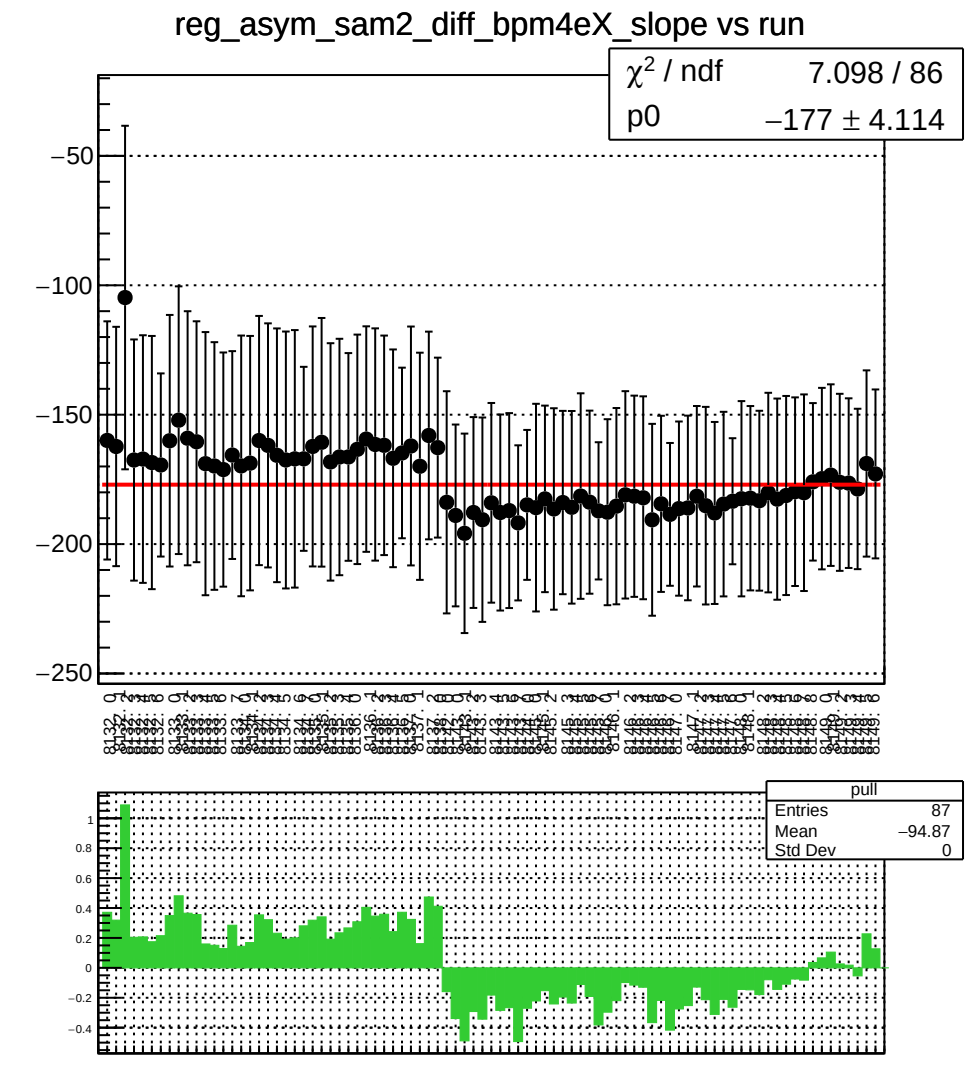

pull1D
Entries 87
Mean −0.3065
Std Dev 2.47

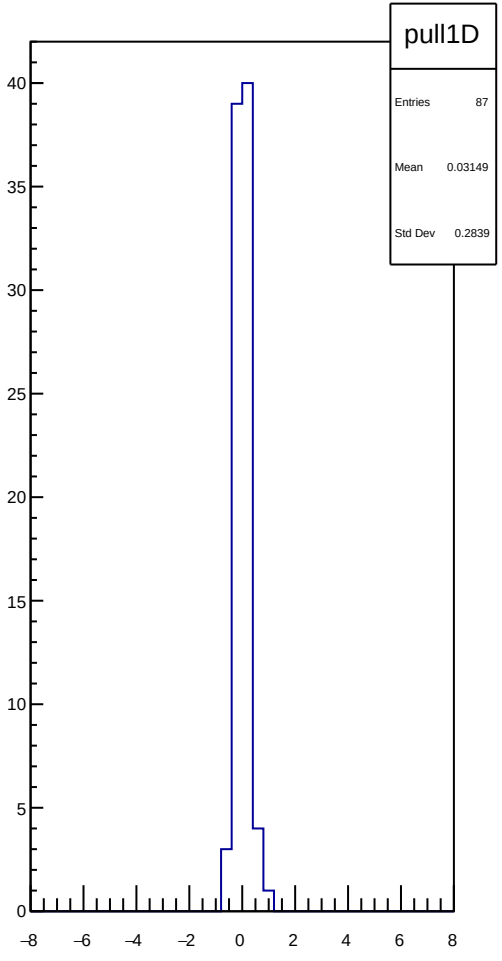

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 159.1 / 86
p0 0.4762 ± 0.02329
pull
Entries 87
Mean 151.2
Std Dev 0
pull1D
Entries 87
Mean −0.2165
Std Dev 1.335

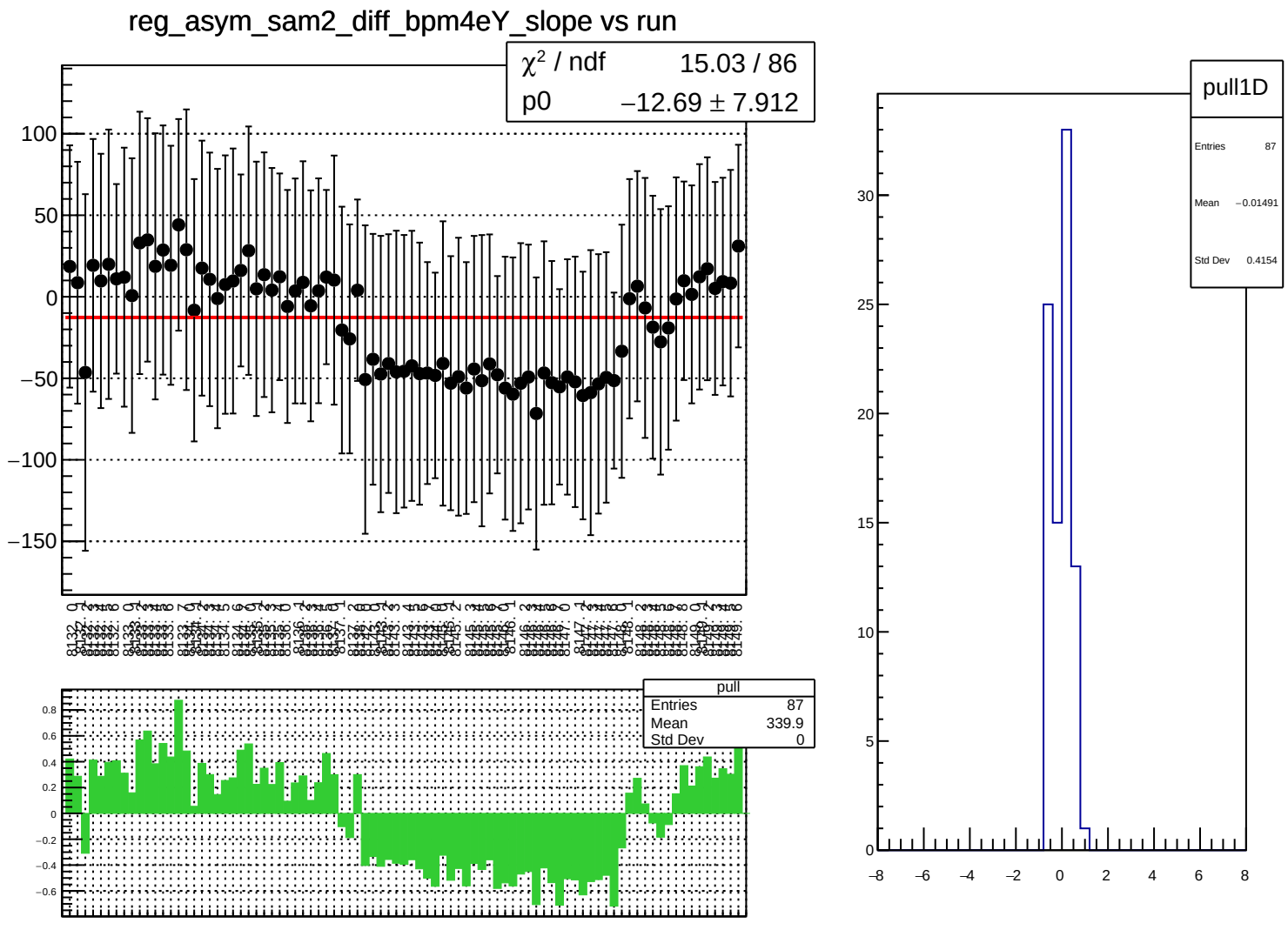

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 4.573 / 86
p0 −38.11 ± 4.15
pull
Entries 87
Mean −63.73
Std Dev 0
pull1D
Entries 87
Mean −0.02935
Std Dev 0.2274

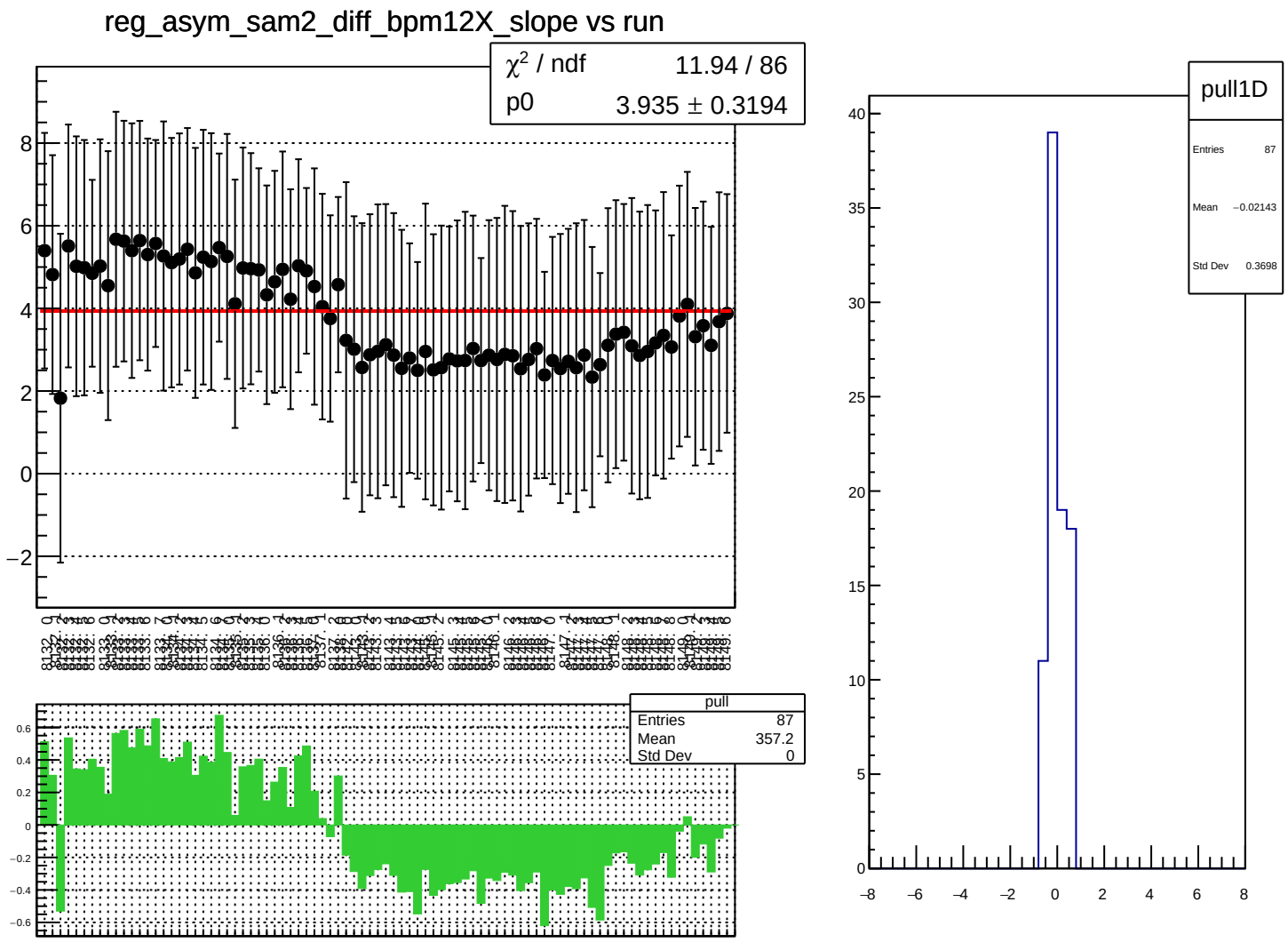

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 12.99 / 86
p0 −173 ± 7.392
pull
Entries 87
Mean 309.1
Std Dev 0

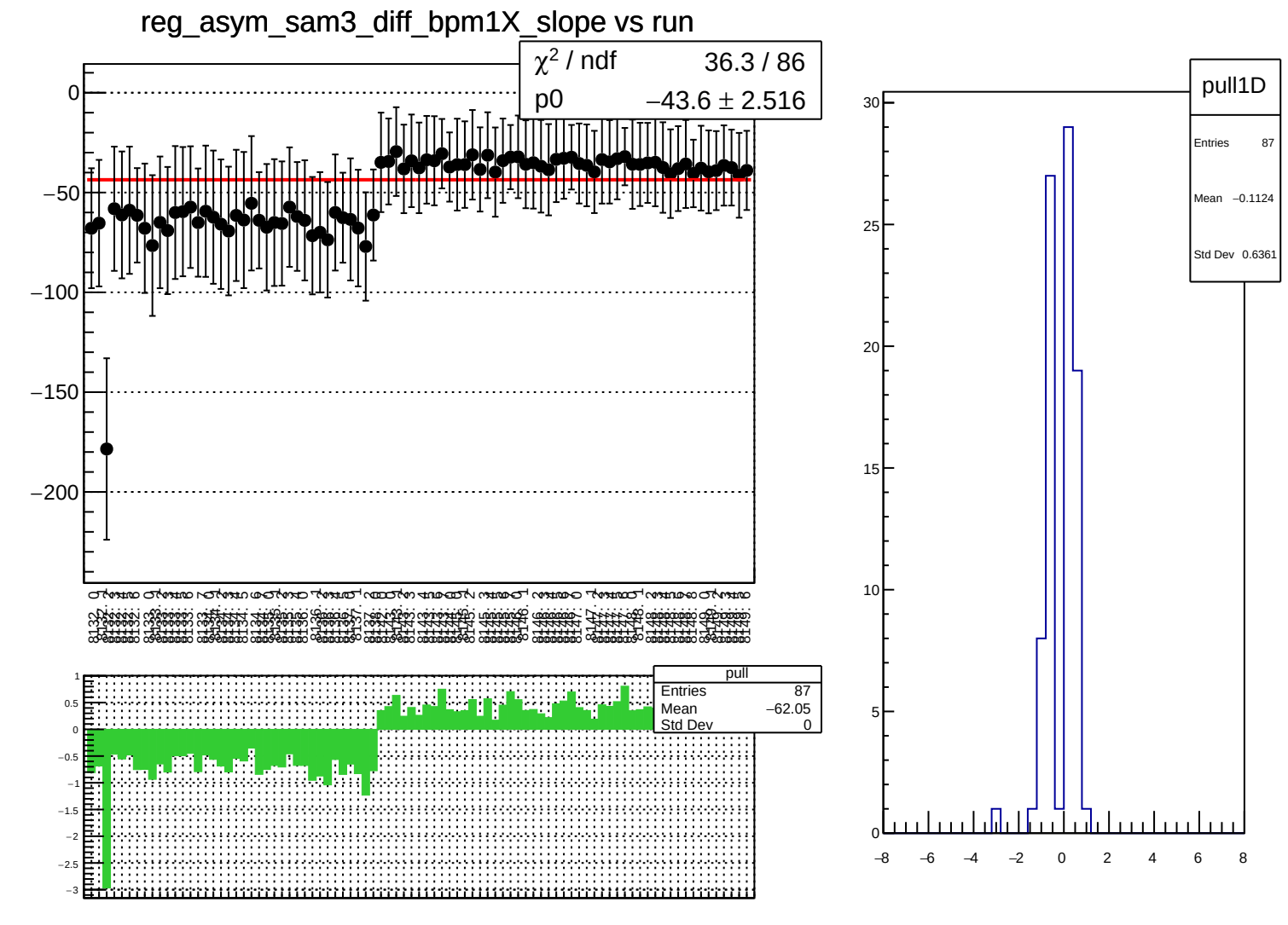

pull1D
Entries 87
Mean 0.01405
Std Dev 0.3862

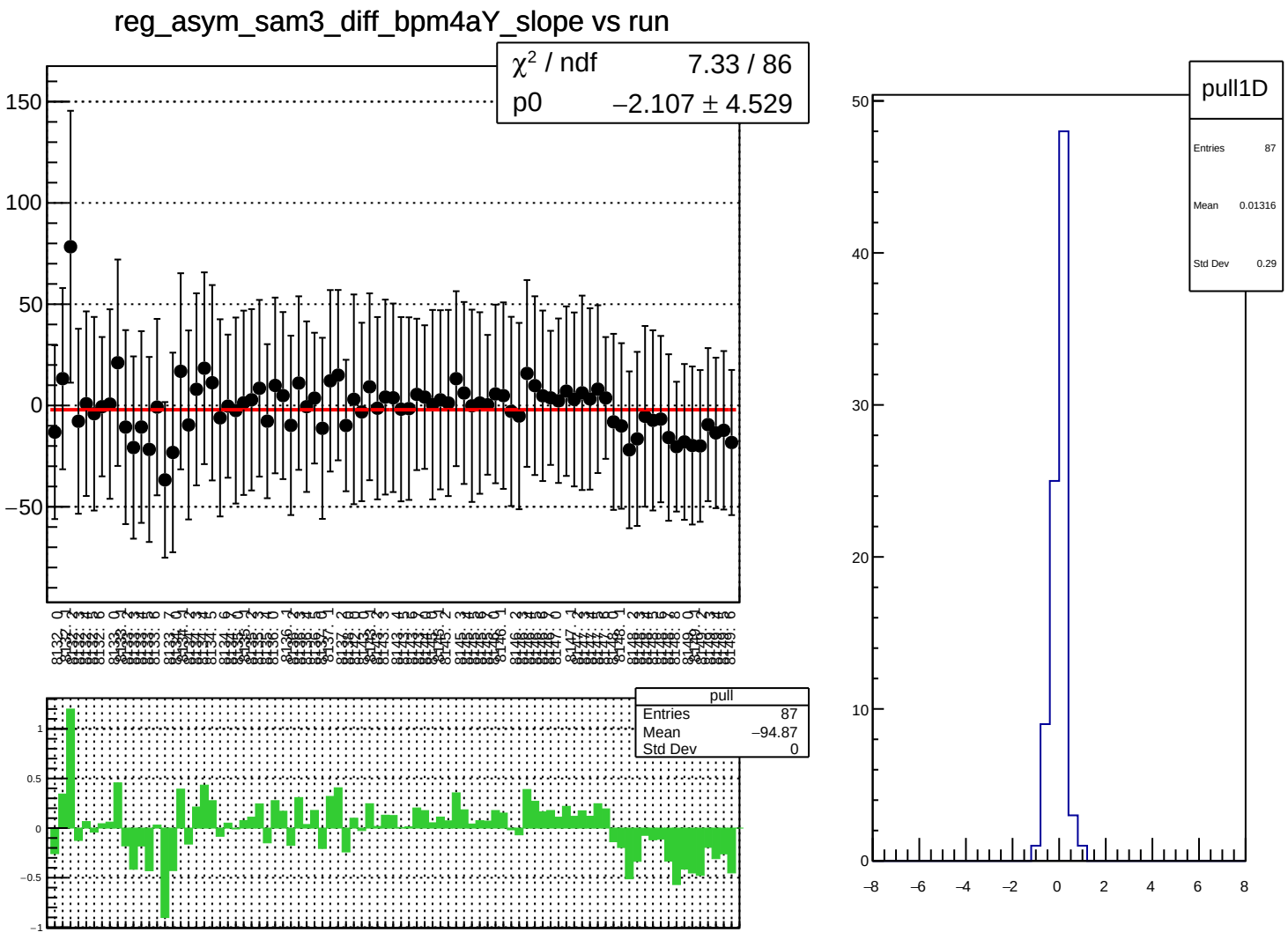

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 7.098 / 86
p0 −177 ± 4.114
pull
Entries 87
Mean −94.87
Std Dev 0

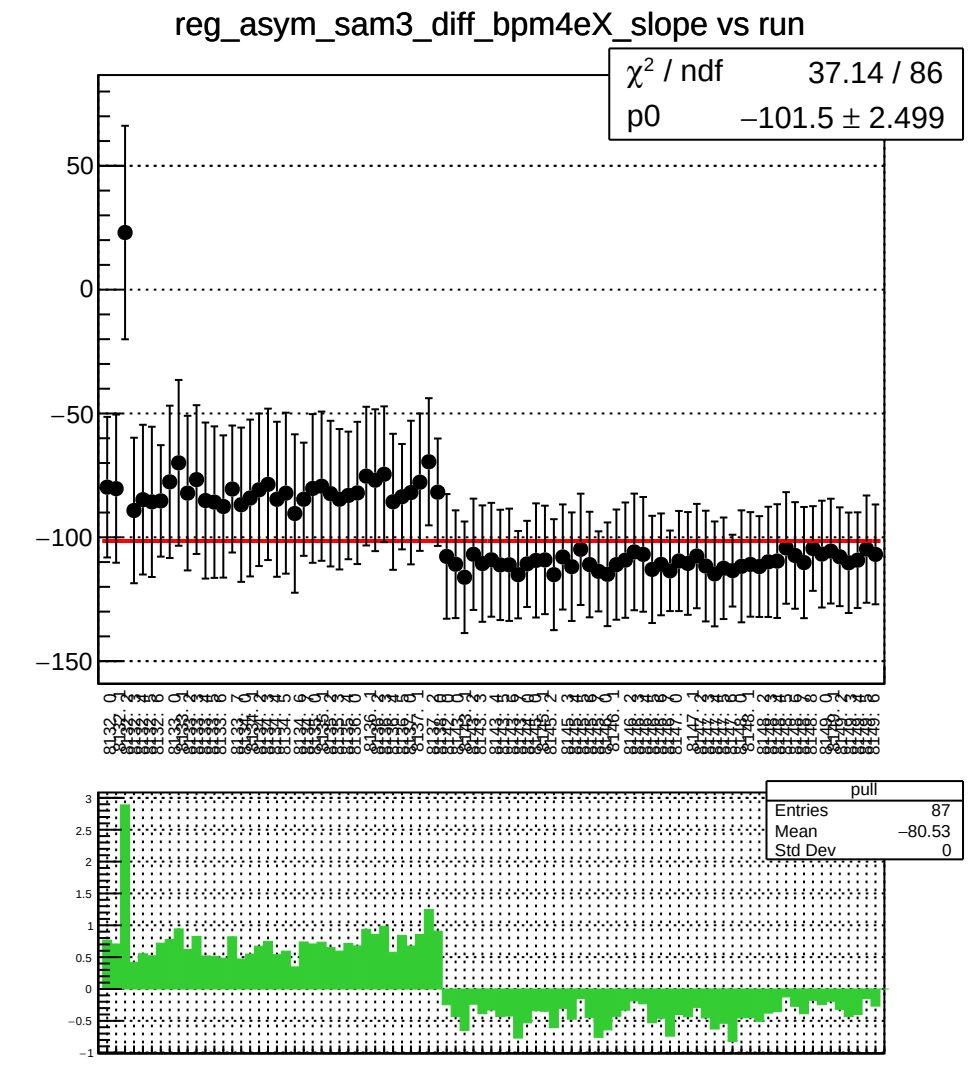

pull1D
Entries 87
Mean 0.03149
Std Dev 0.2839

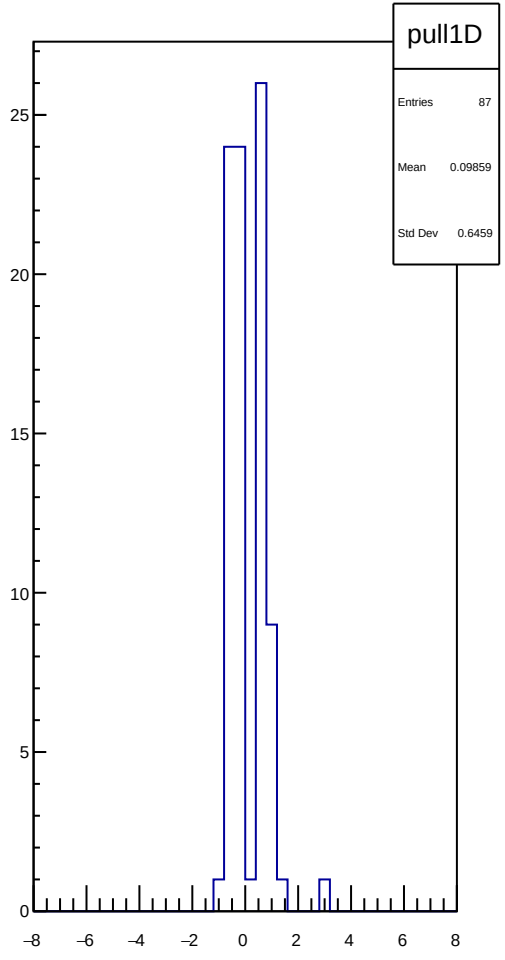

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 15.03 / 86
p0 −12.69 ± 7.912
pull
Entries 87
Mean 339.9
Std Dev 0
pull1D
Entries 87
Mean −0.01491
Std Dev 0.4154

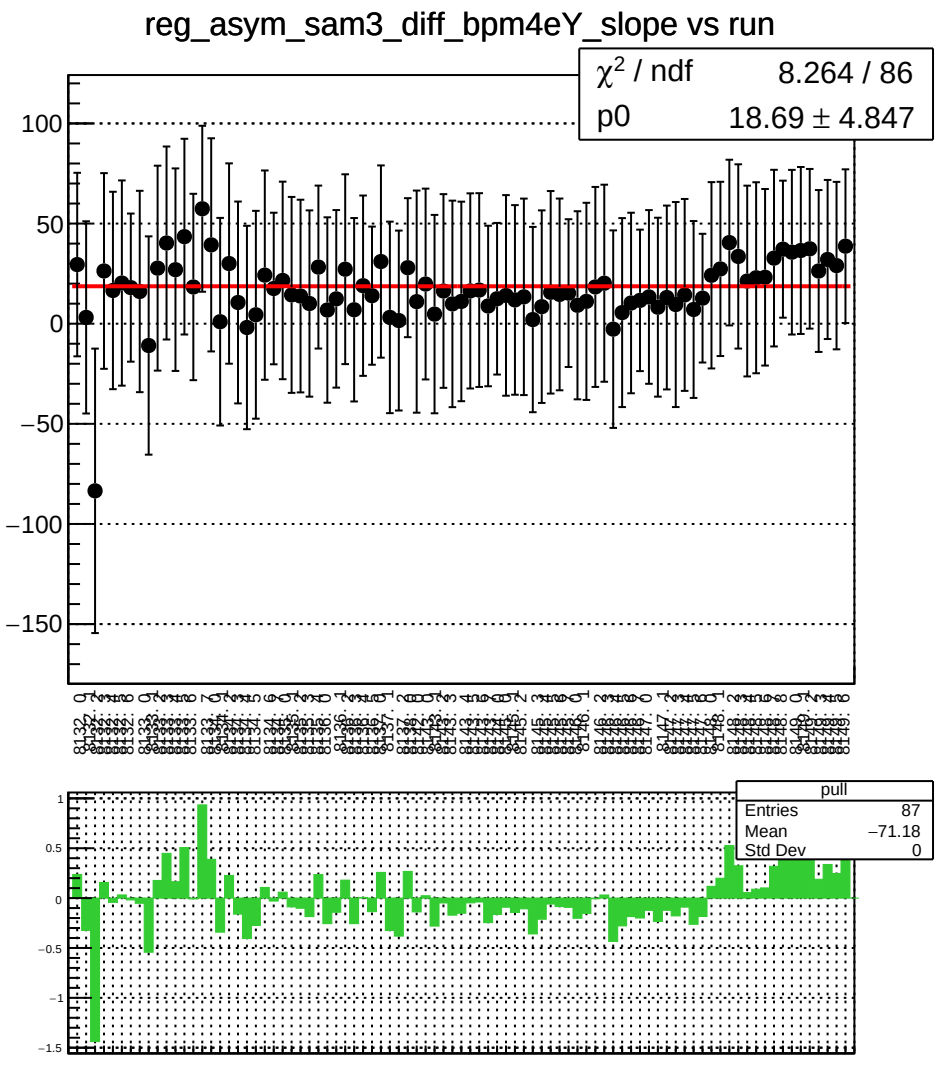

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 11.94 / 86
p0 3.935 ± 0.3194
pull
Entries 87
Mean 357.2
Std Dev 0
pull1D
Entries 87
Mean −0.02143
Std Dev 0.3698

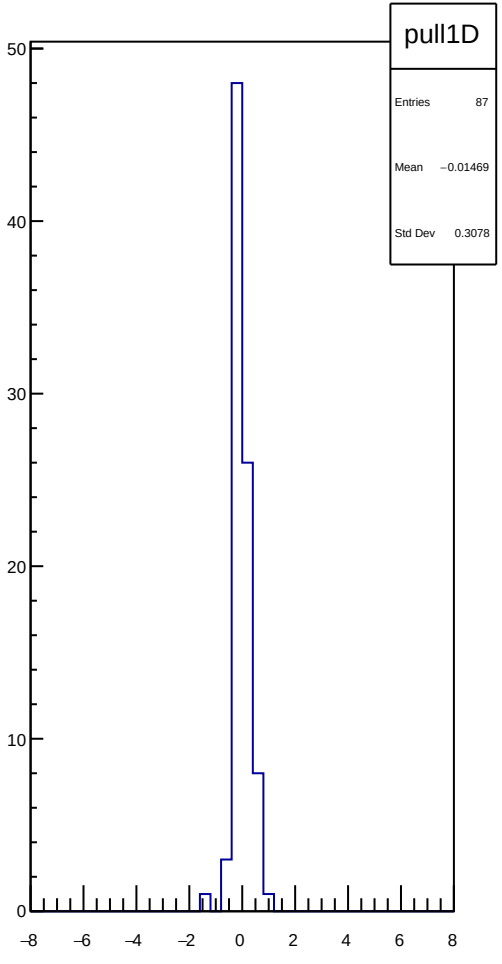

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 36.3 / 86
p0 −43.6 ± 2.516
pull
Entries 87
Mean −62.05
Std Dev 0
pull1D
Entries 87
Mean −0.1124
Std Dev 0.6361

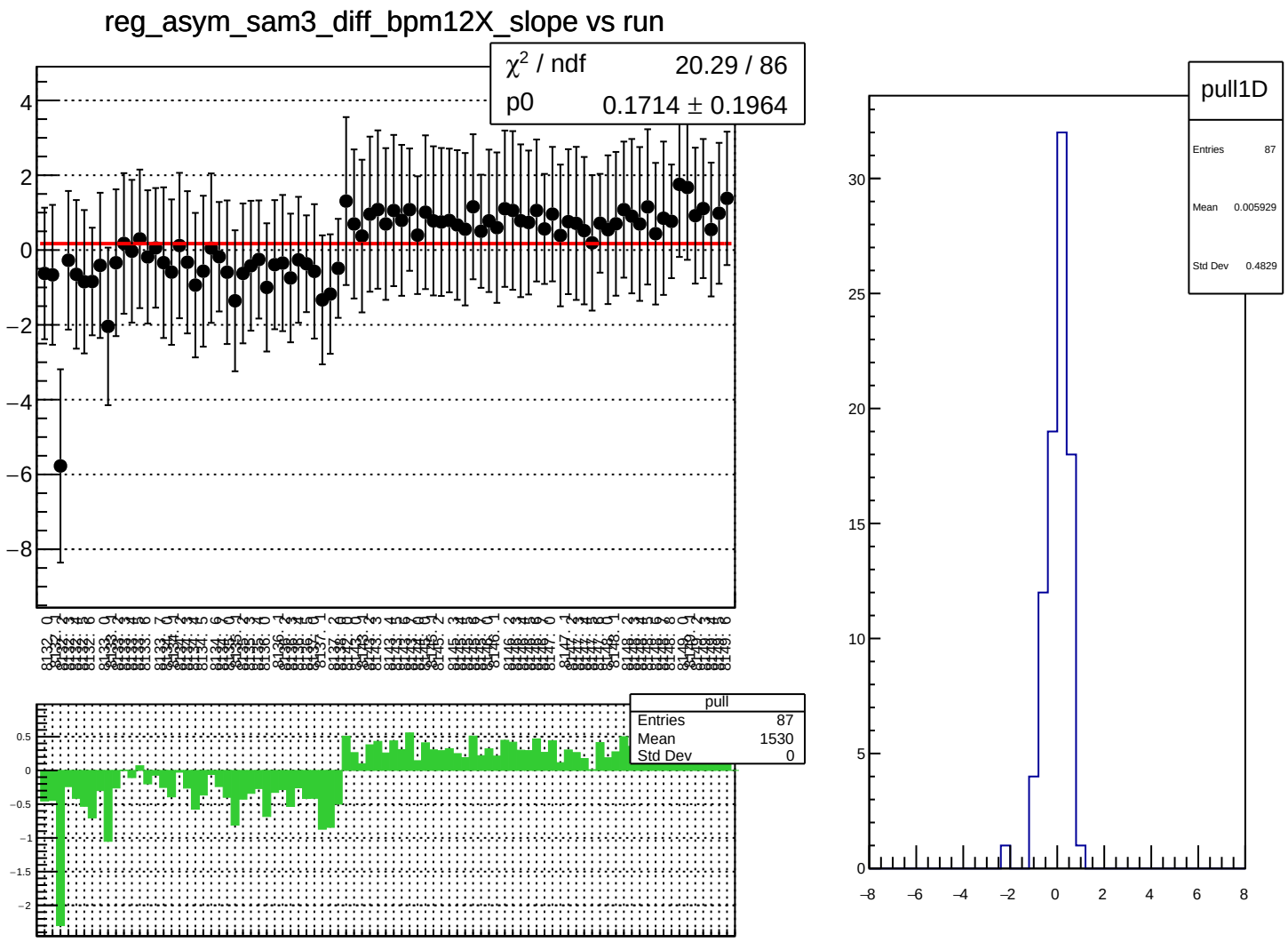

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 7.33 / 86
p0 −2.107 ± 4.529
pull
Entries 87
Mean −94.87
Std Dev 0
pull1D
Entries 87
Mean 0.01316
Std Dev 0.29

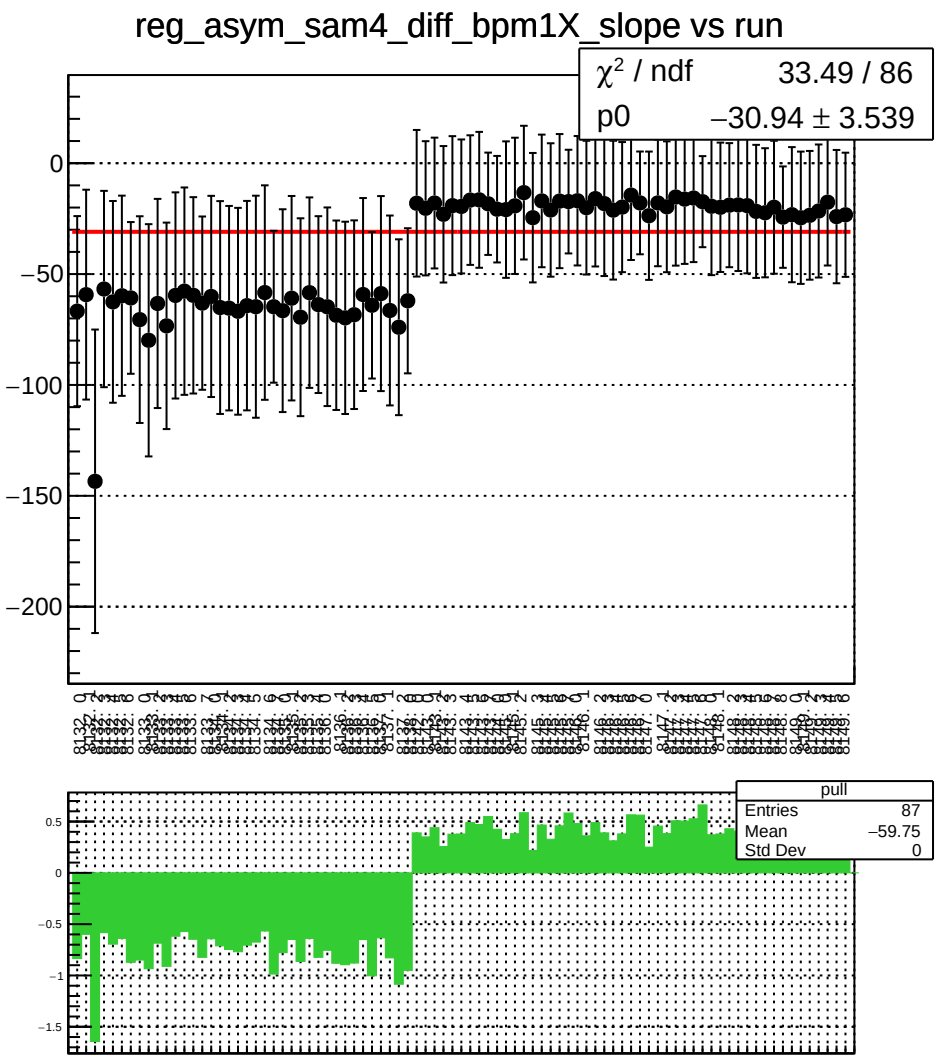

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 37.14 / 86
p0 −101.5 ± 2.499
50
0
−50
−100
−150
pull
Entries 87
Mean −80.53
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1

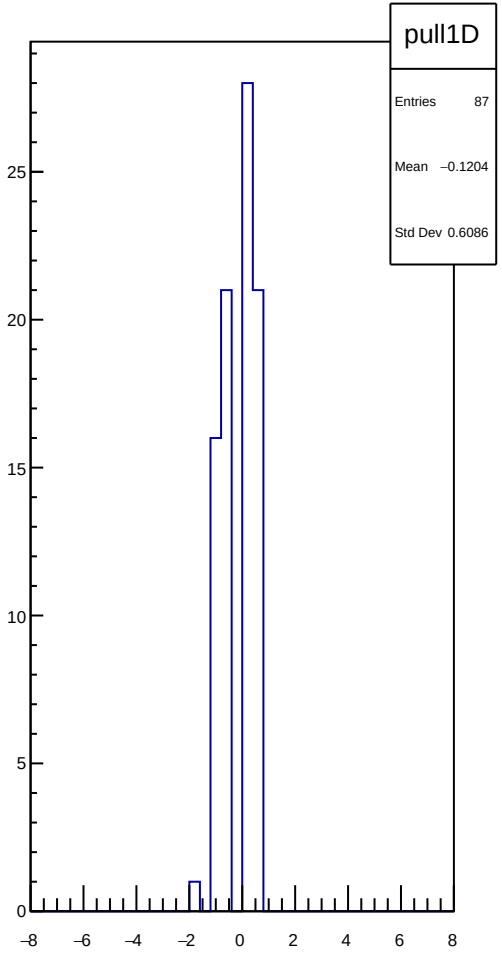

pull1D
Entries 87
Mean 0.09859
Std Dev 0.6459
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

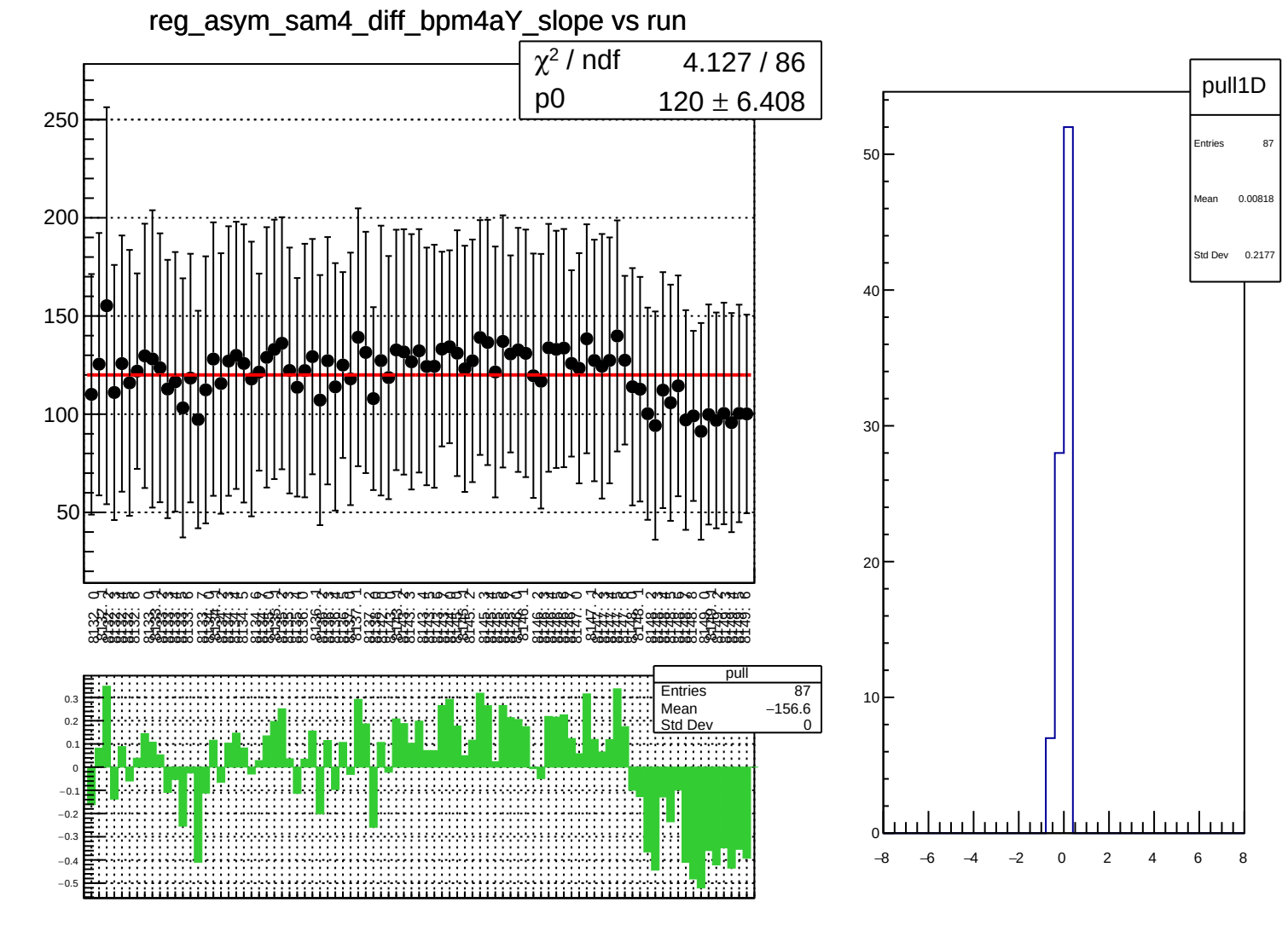

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 8.264 / 86
p0 18.69 ± 4.847
pull
Entries 87
Mean −71.18
Std Dev 0

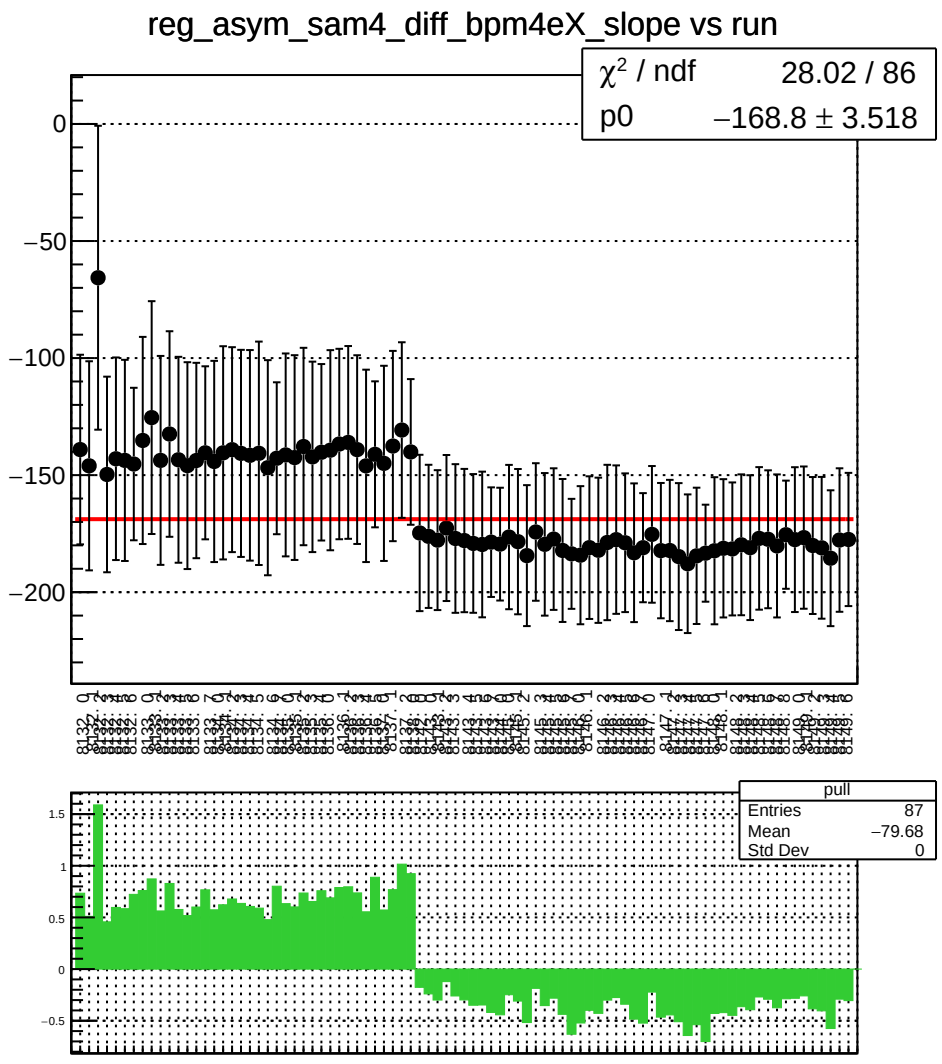

pull1D
Entries 87
Mean −0.01469
Std Dev 0.3078

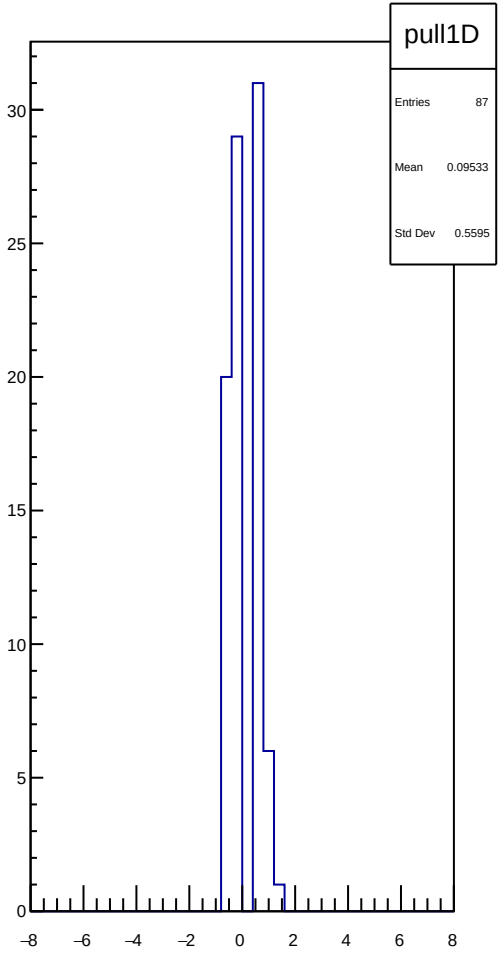

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 20.29 / 86
p0 0.1714 ± 0.1964
pull
Entries 87
Mean 1530
Std Dev 0
pull1D
Entries 87
Mean 0.005929
Std Dev 0.4829

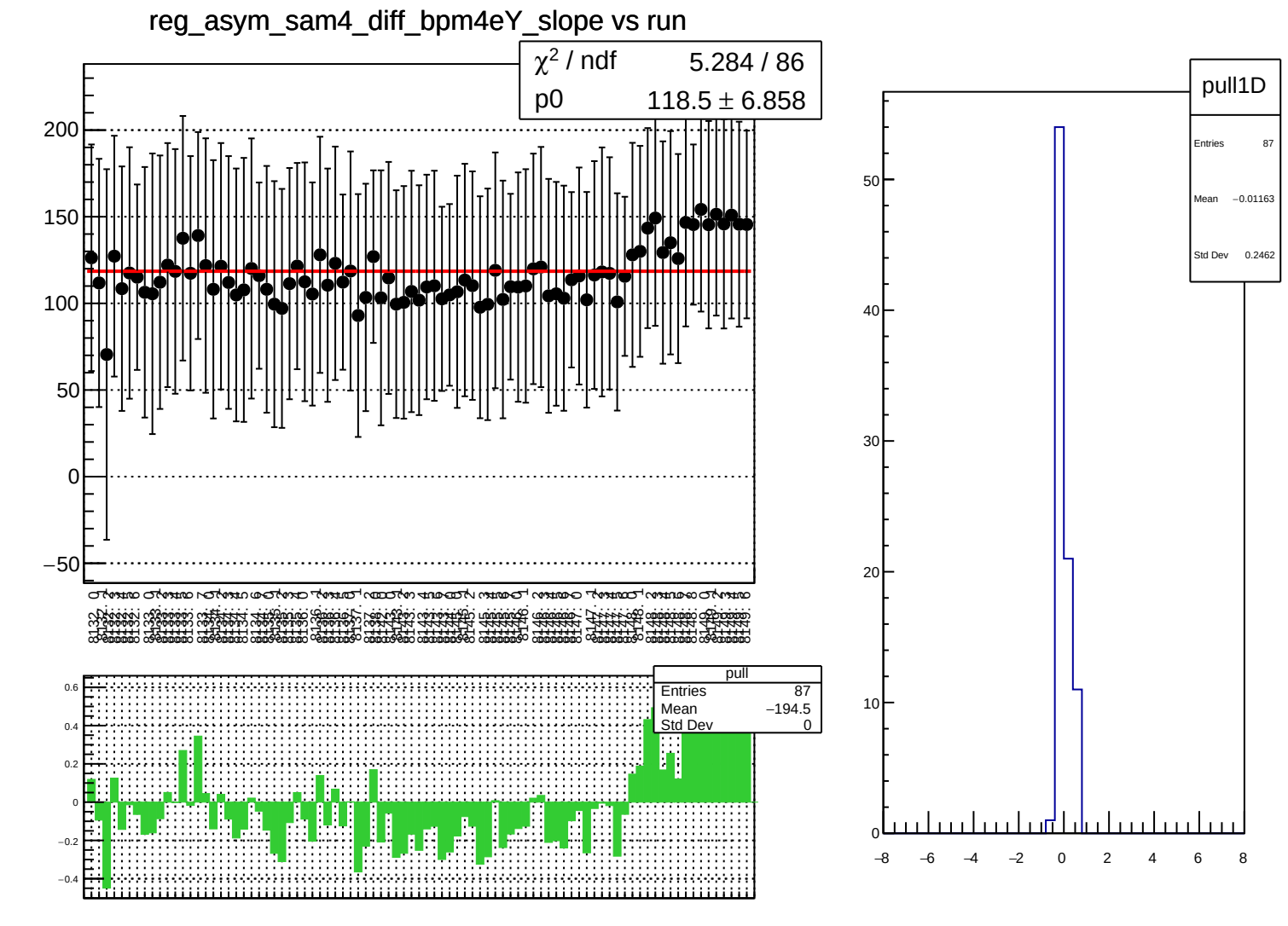

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 33.49 / 86
p0 −30.94 ± 3.539
pull
Entries 87
Mean −59.75
Std Dev 0

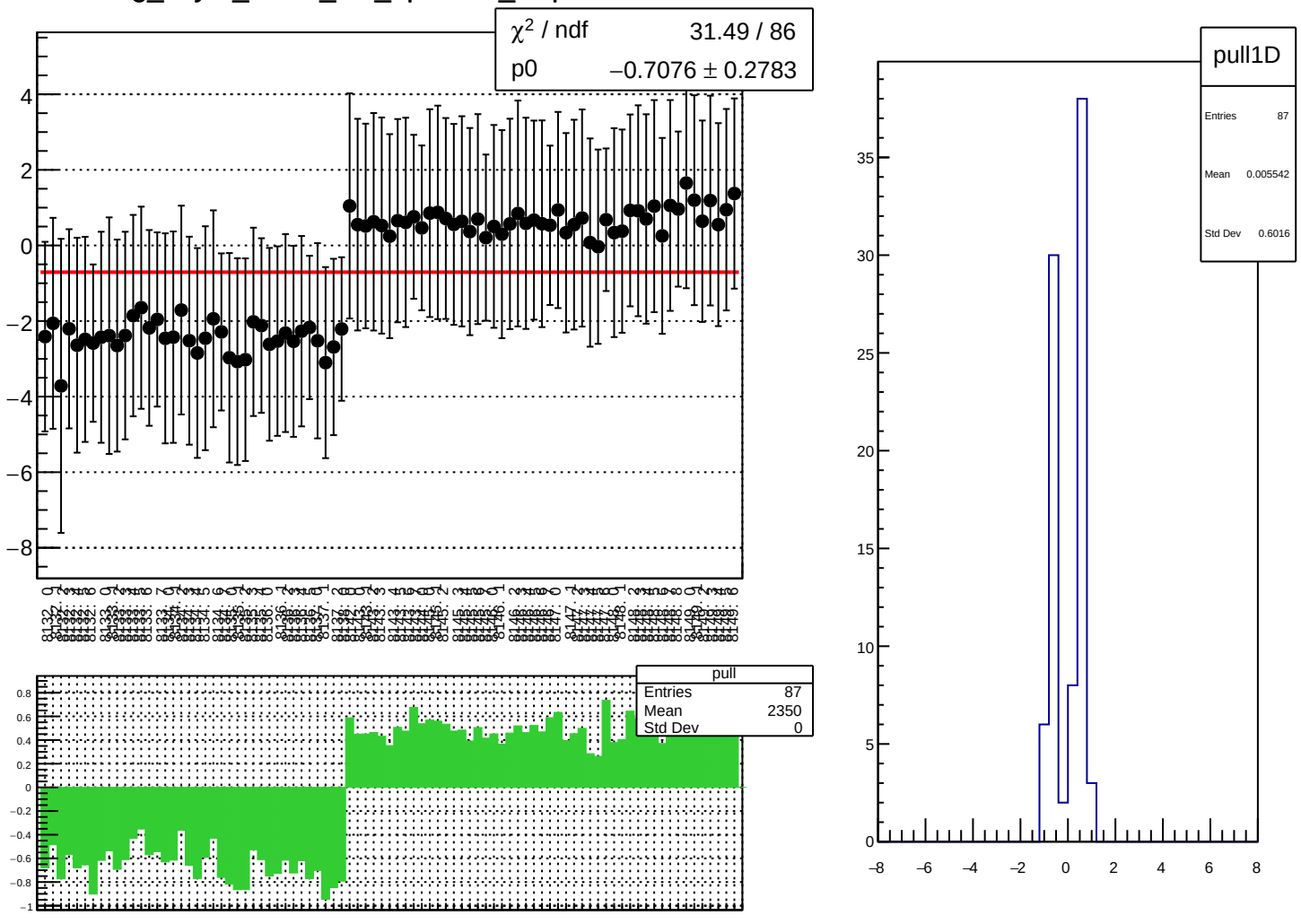

pull1D
Entries 87
Mean −0.1204
Std Dev 0.6086

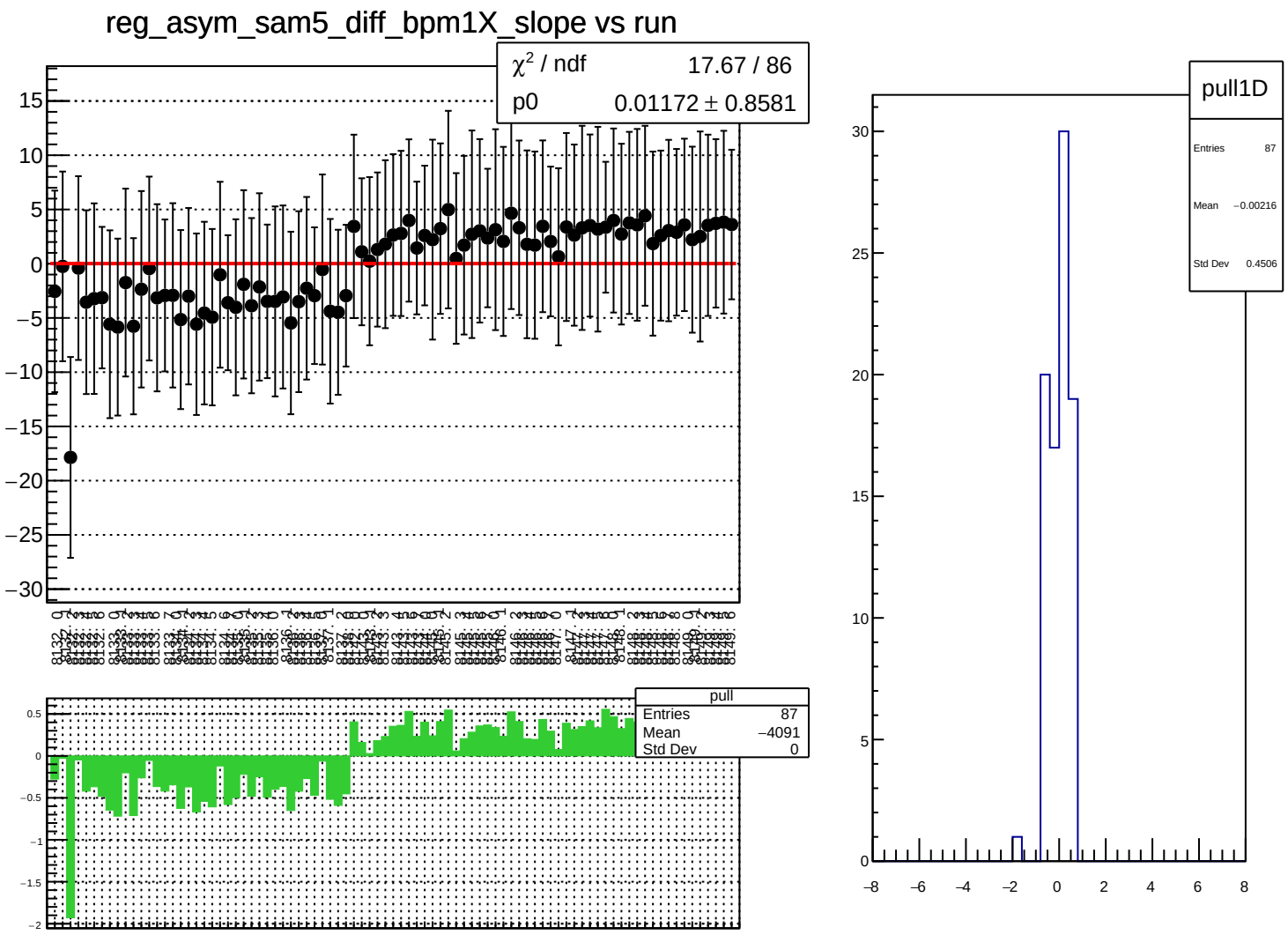

reg_asym_sam4_diff_bpm4aY_slope vs run
χ^2 / ndf 4.127 / 86
p0 120 ± 6.408
250
200
150
100
50
pull
Entries 87
Mean −156.6
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
pull1D
Entries 87
Mean 0.00818
Std Dev 0.2177
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

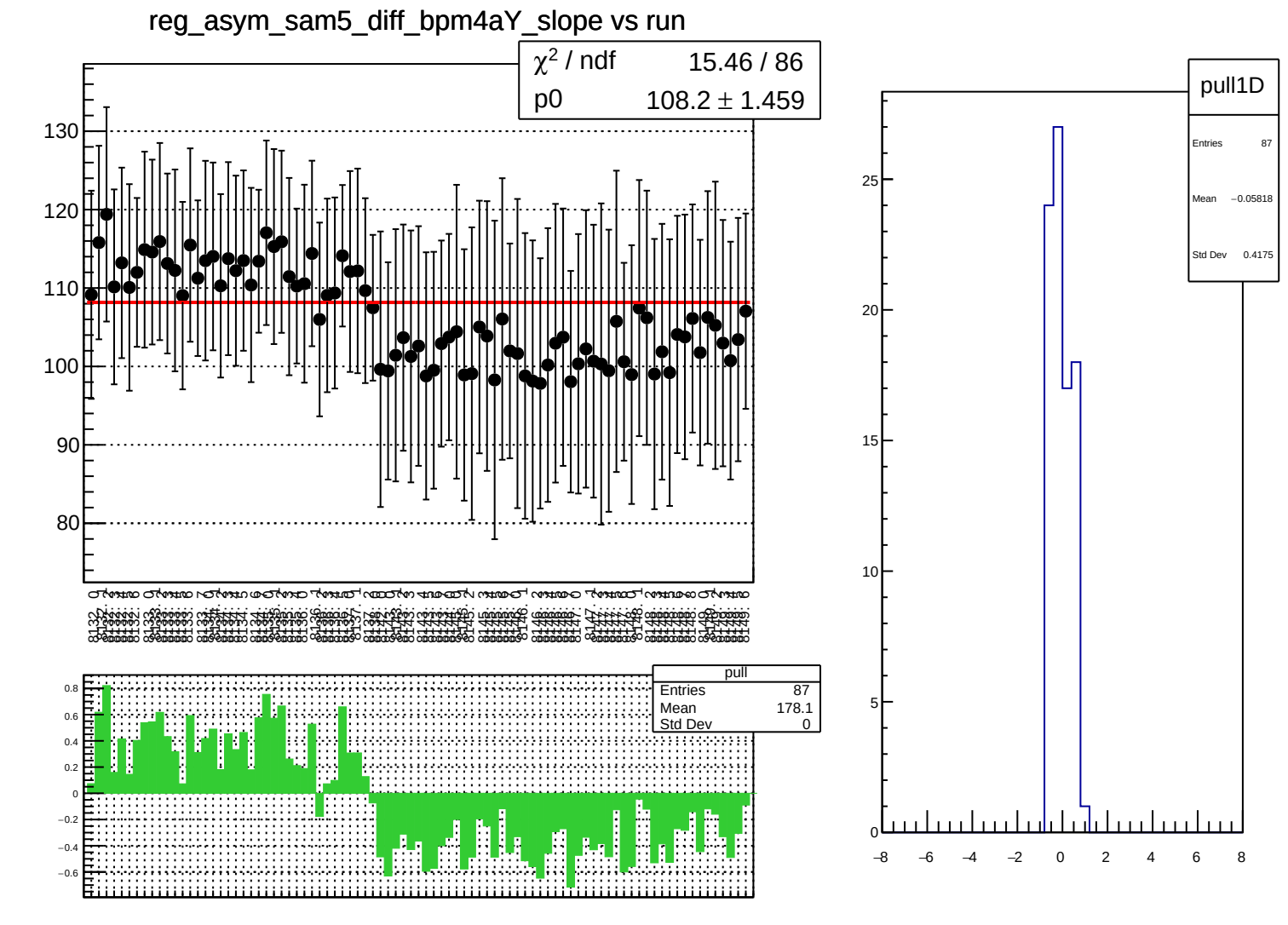

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 28.02 / 86
p0 −168.8 ± 3.518
pull
Entries 87
Mean −79.68
Std Dev 0

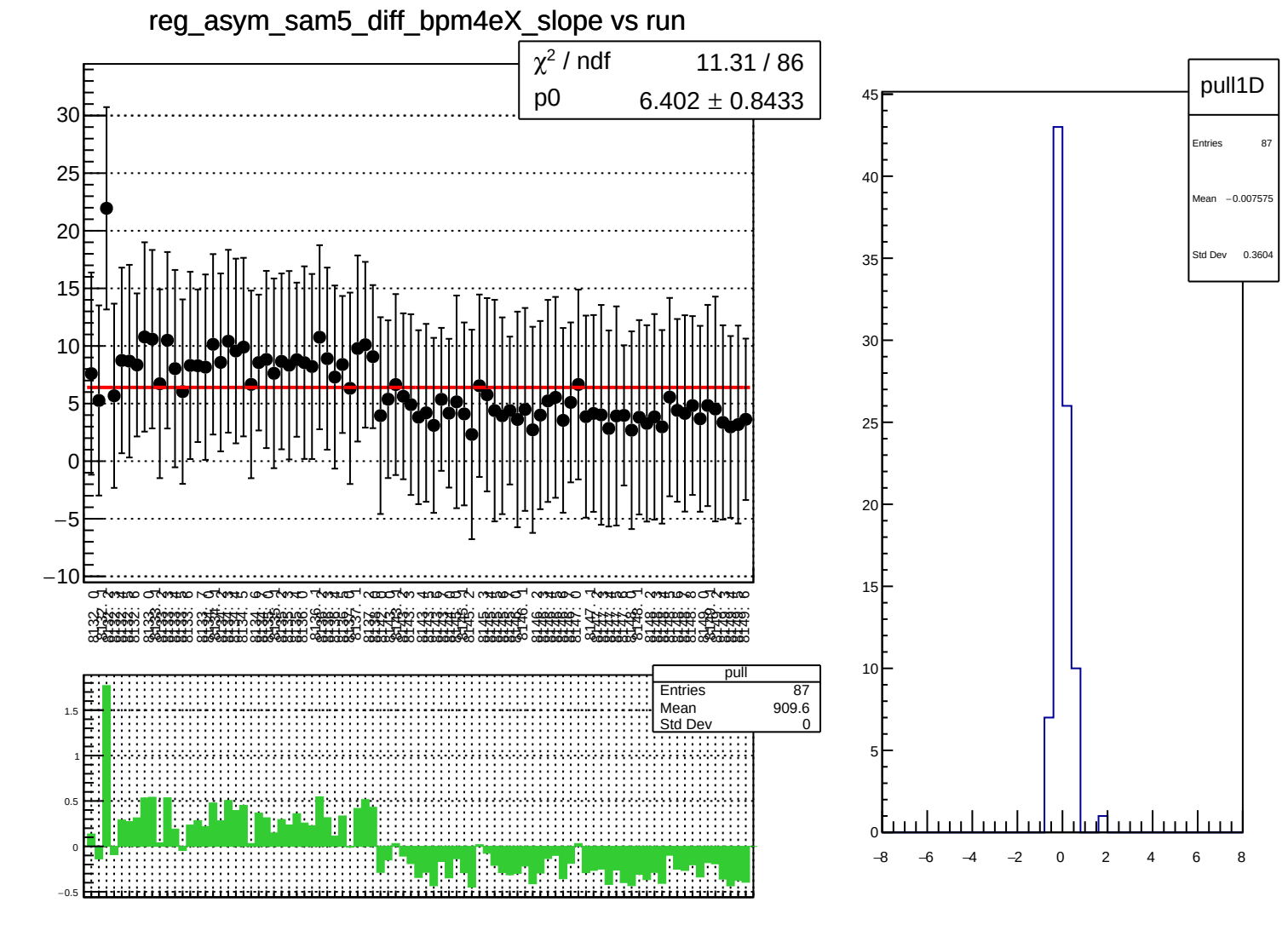

pull1D
Entries 87
Mean 0.09533
Std Dev 0.5595

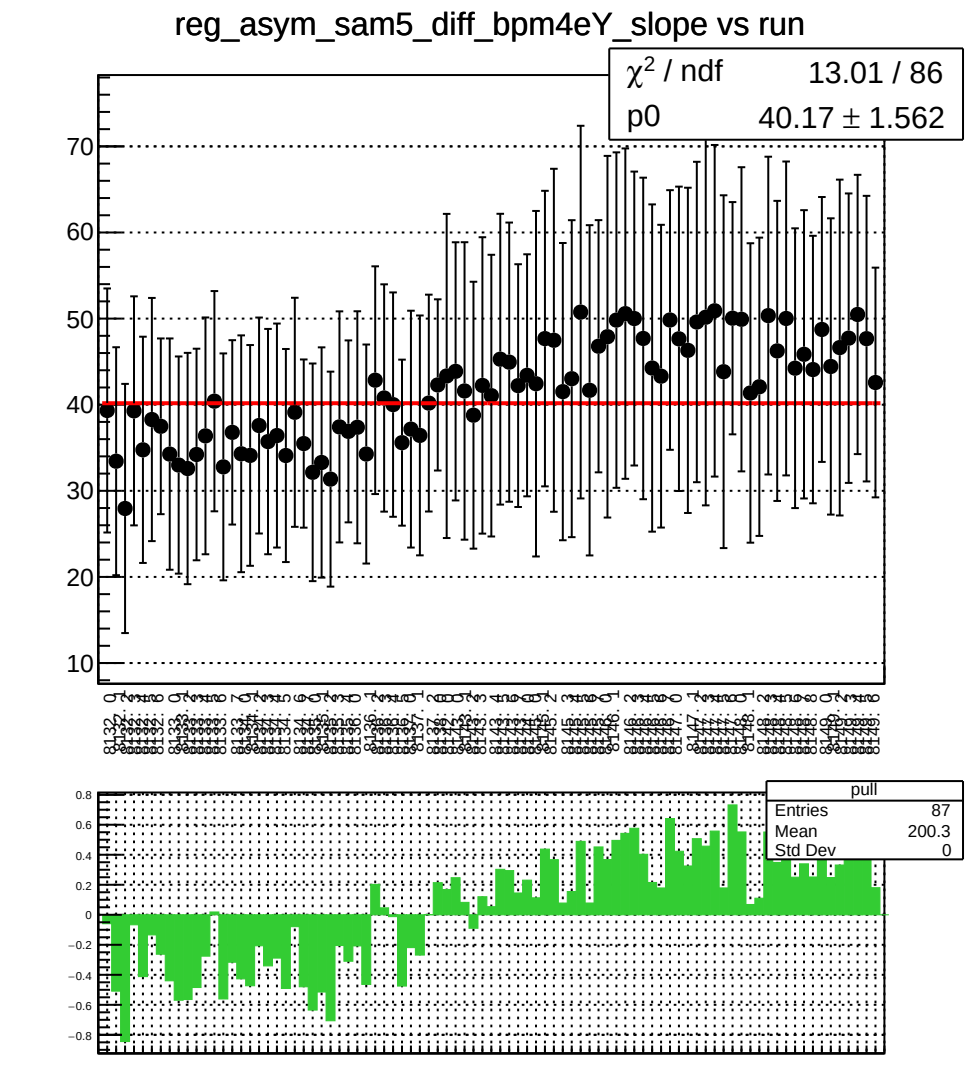

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 5.284 / 86
p0 118.5 ± 6.858
pull
Entries 87
Mean −194.5
Std Dev 0
pull1D
Entries 87
Mean −0.01163
Std Dev 0.2462

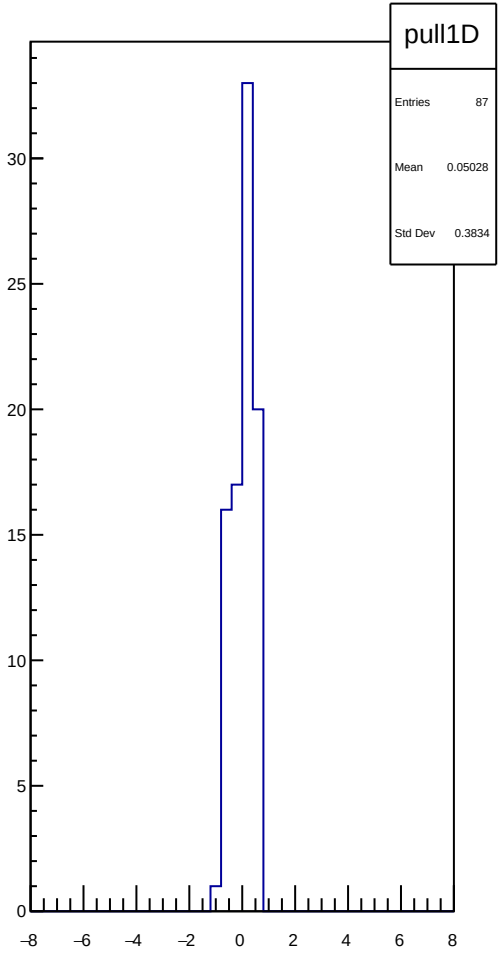

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 31.49 / 86
p0 −0.7076 ± 0.2783
pull
Entries 87
Mean 2350
Std Dev 0
pull1D
Entries 87
Mean 0.005542
Std Dev 0.6016

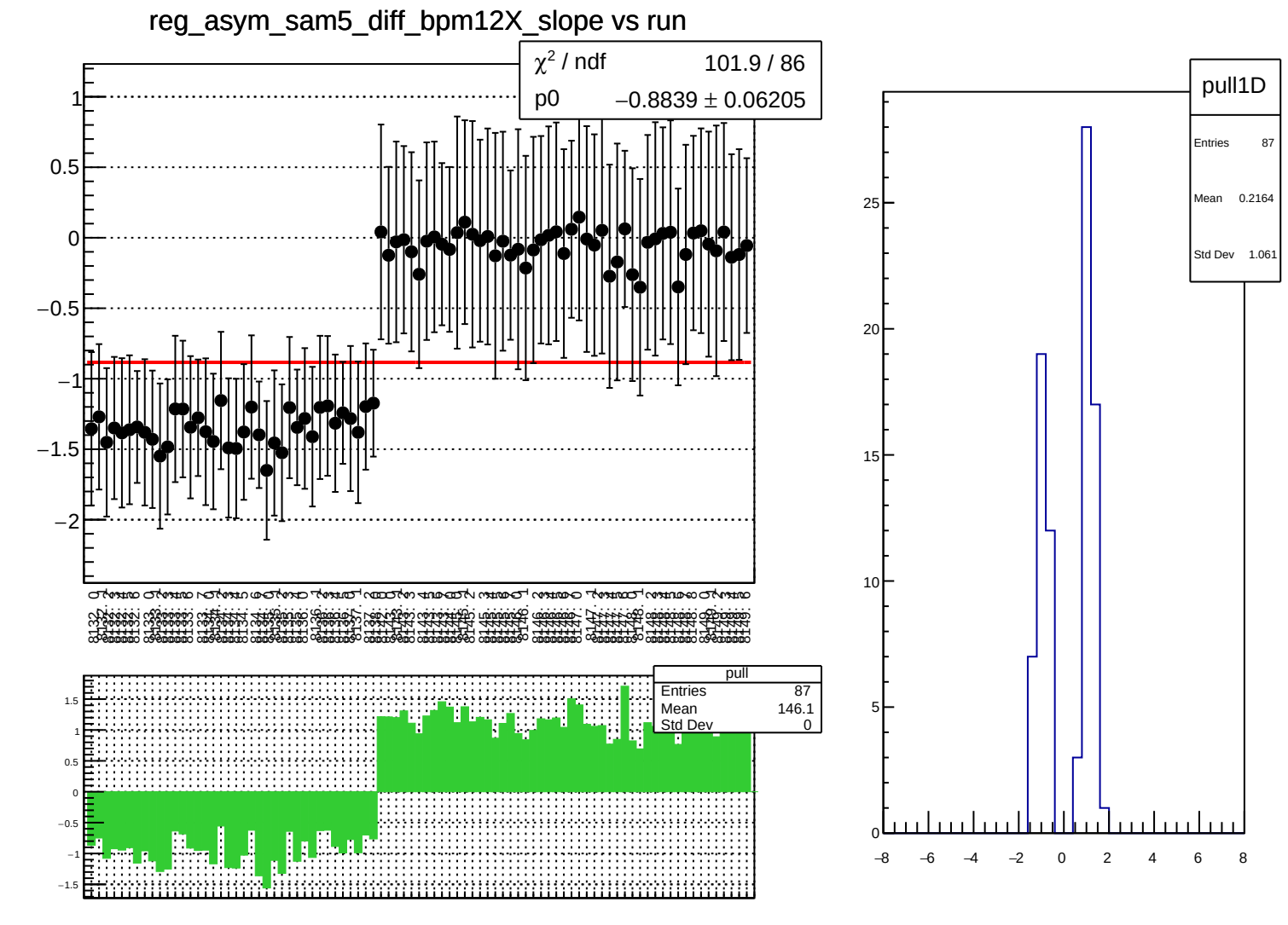

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 17.67 / 86
p0 0.01172 ± 0.8581
pull
Entries 87
Mean −4091
Std Dev 0
pull1D
Entries 87
Mean −0.00216
Std Dev 0.4506

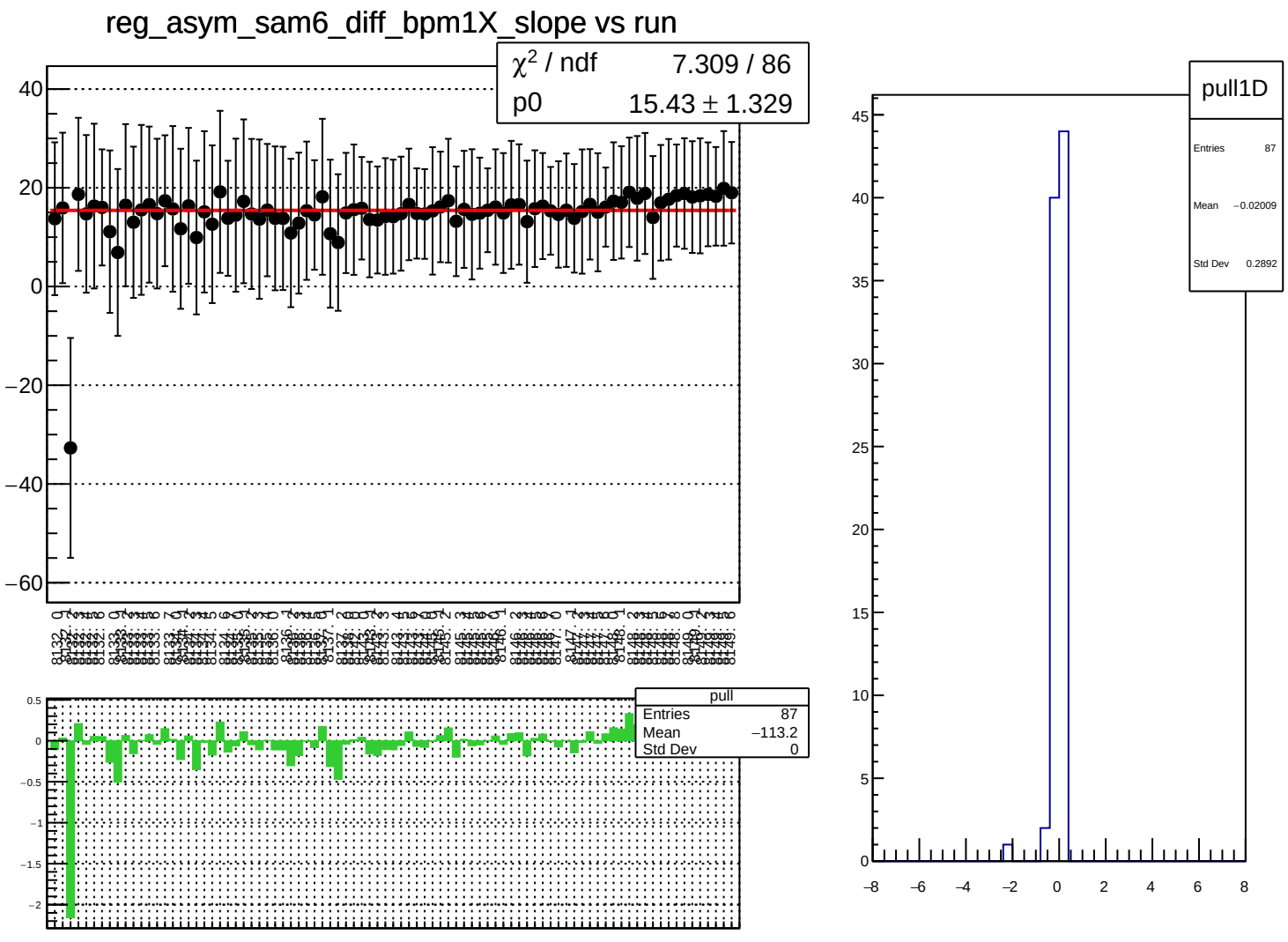

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 15.46 / 86
p0 108.2 ± 1.459
pull
Entries 87
Mean 178.1
Std Dev 0
pull1D
Entries 87
Mean −0.05818
Std Dev 0.4175

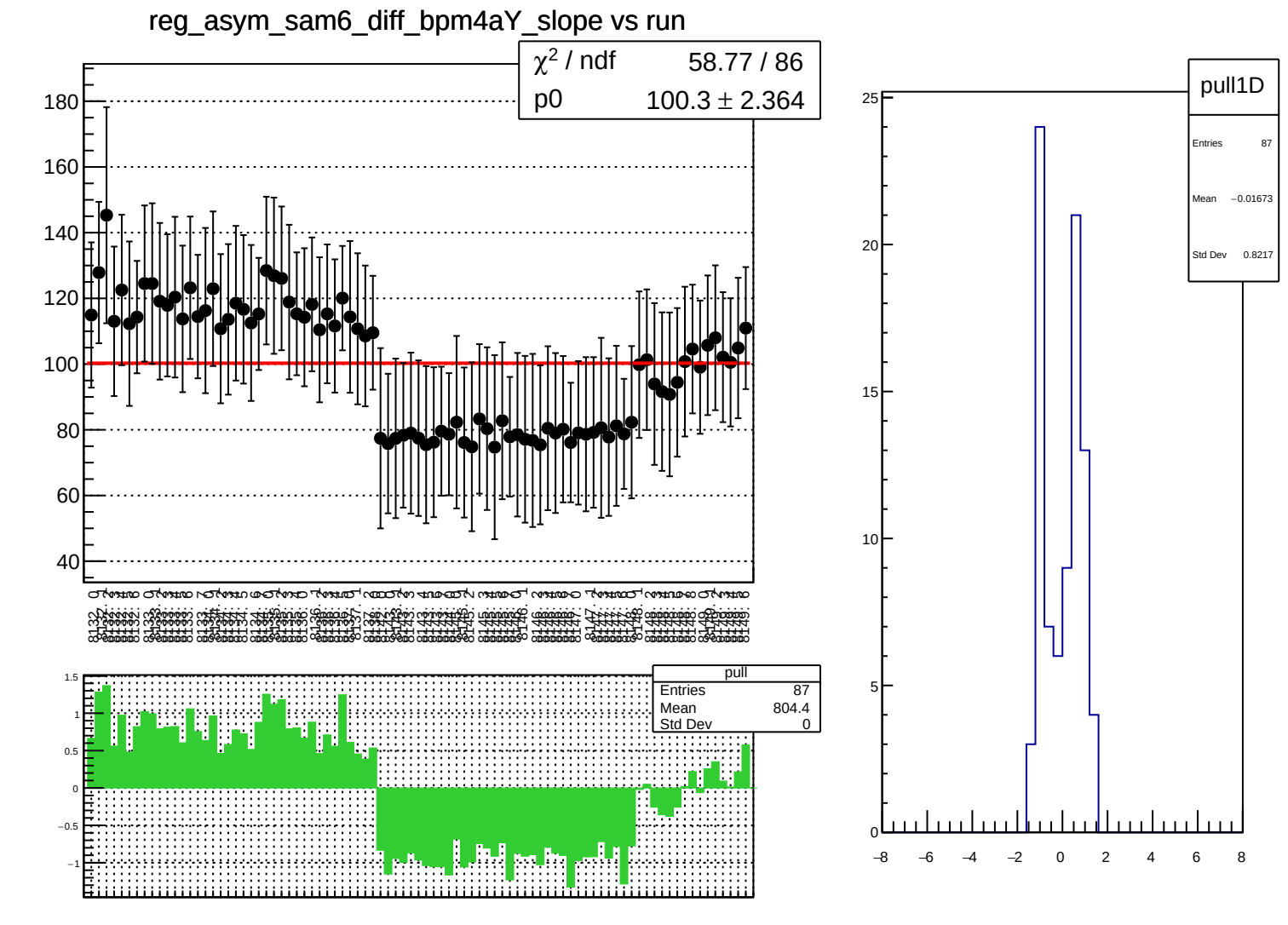

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 11.31 / 86
p0 6.402 ± 0.8433
pull
Entries 87
Mean 909.6
Std Dev 0
pull1D
Entries 87
Mean −0.007575
Std Dev 0.3604

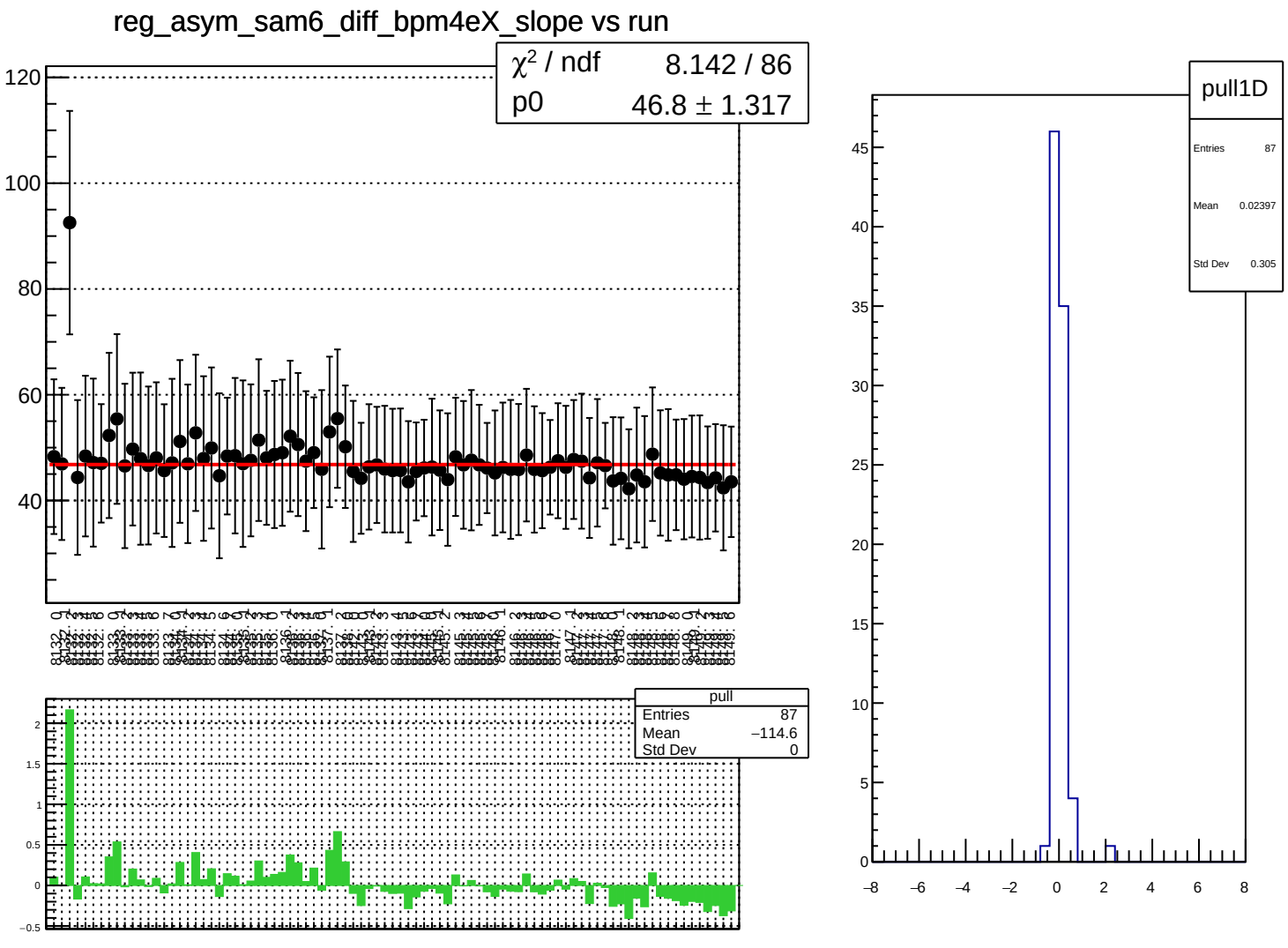

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 13.01 / 86
p0 40.17 ± 1.562
pull
Entries 87
Mean 200.3
Std Dev 0

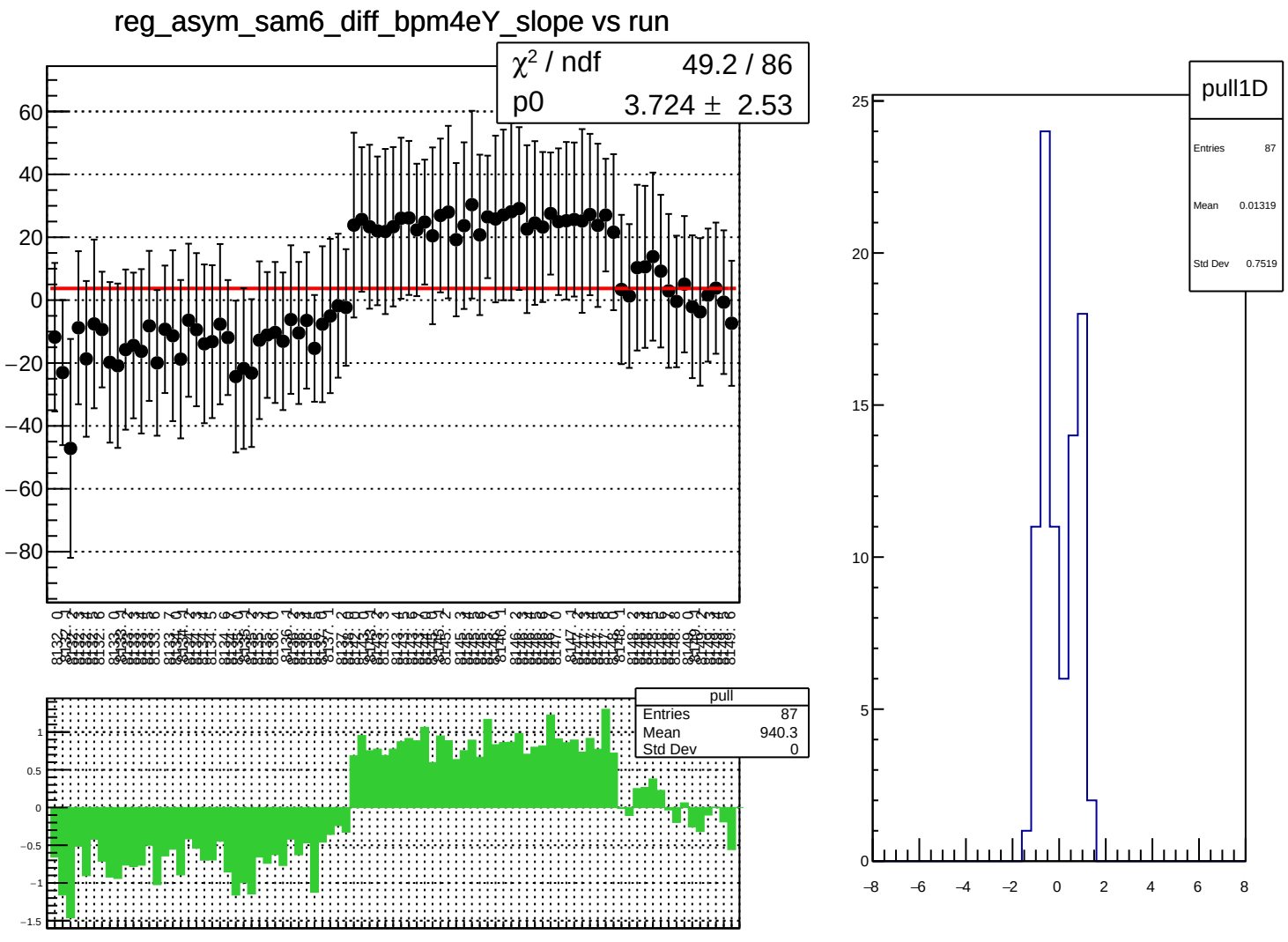

pull1D
Entries 87
Mean 0.05028
Std Dev 0.3834

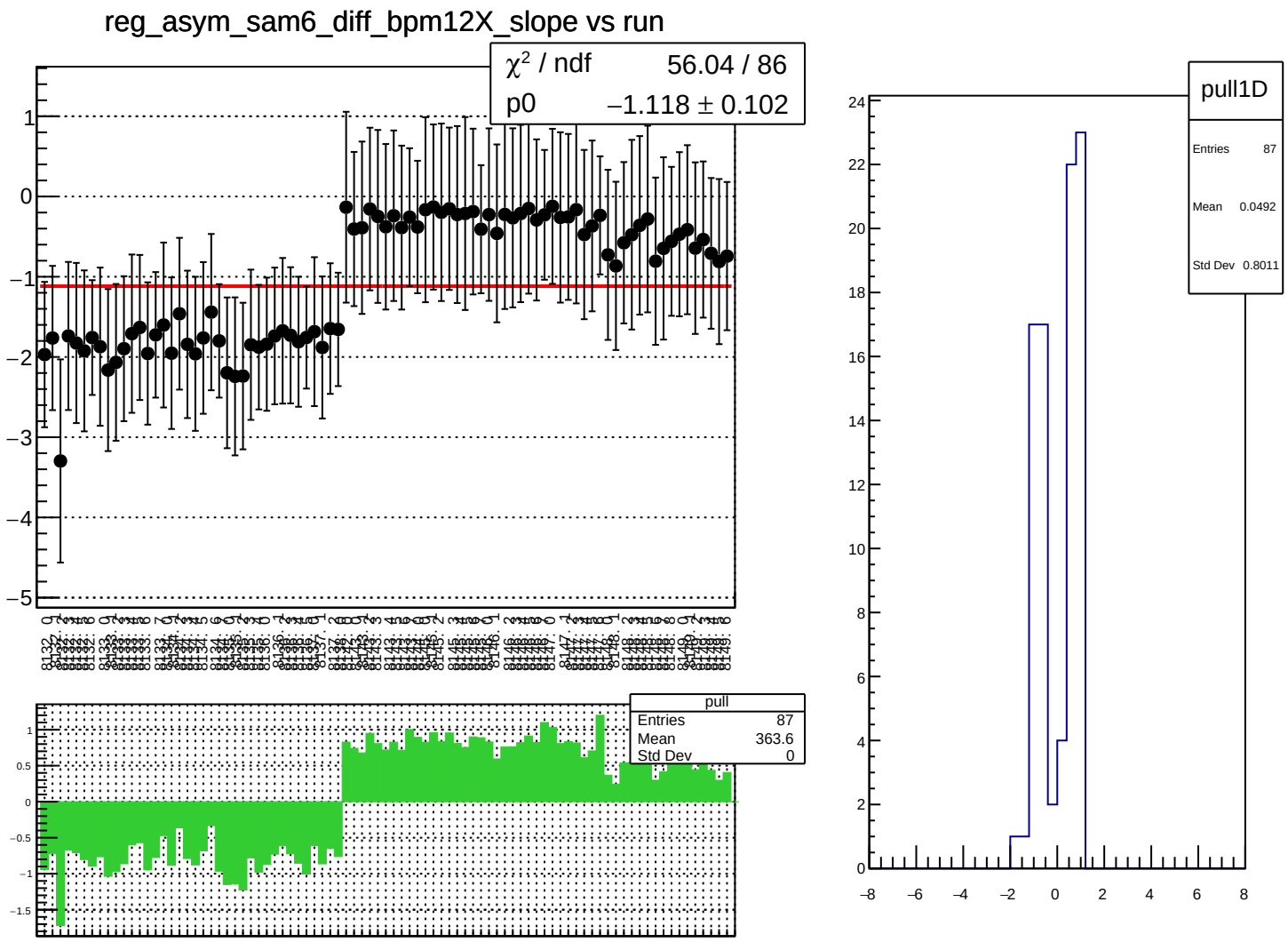

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 101.9 / 86
p0 −0.8839 ± 0.06205
pull
Entries 87
Mean 146.1
Std Dev 0
pull1D
Entries 87
Mean 0.2164
Std Dev 1.061

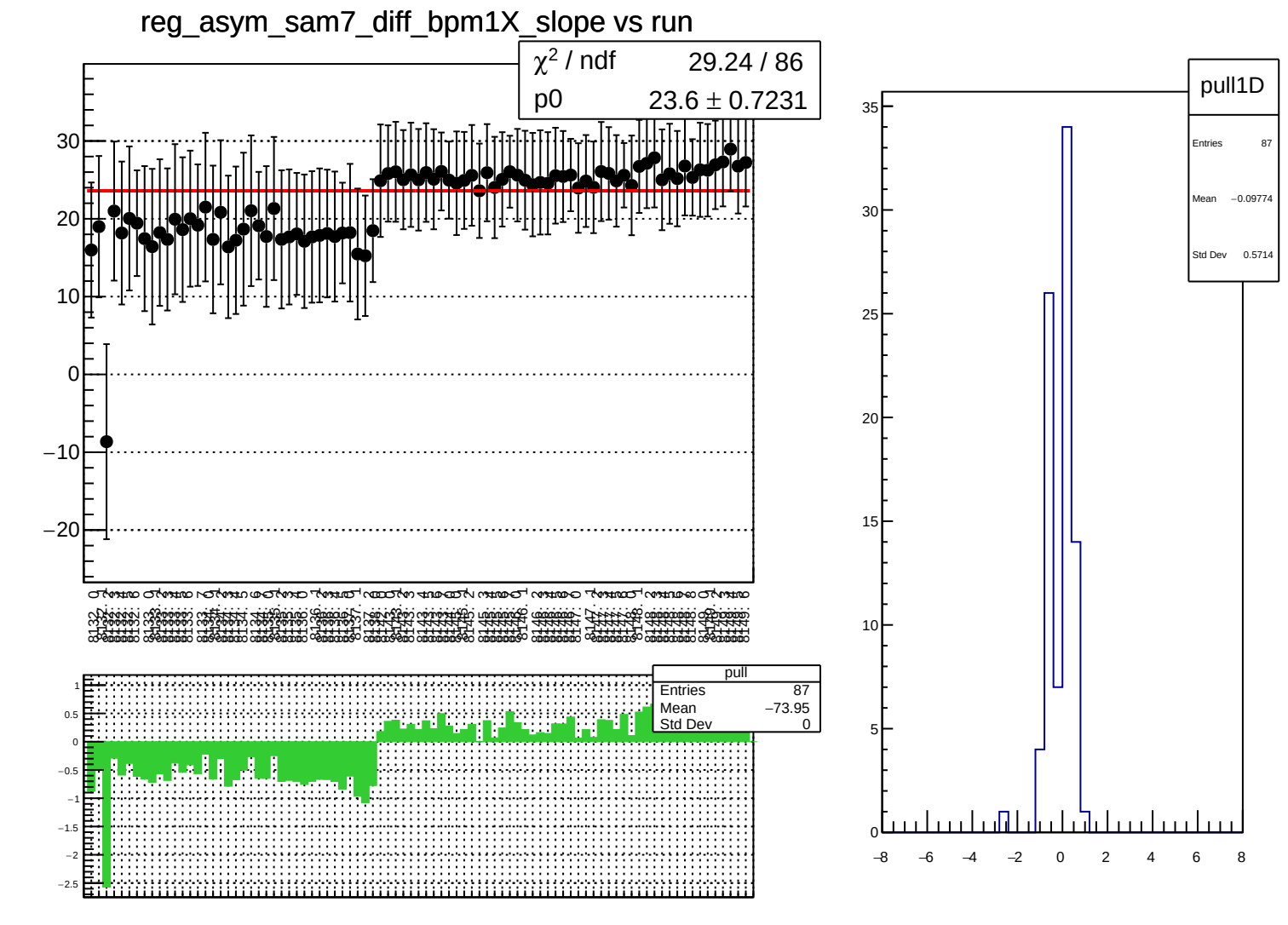

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 7.309 / 86
p0 15.43 ± 1.329
pull
Entries 87
Mean −113.2
Std Dev 0
pull1D
Entries 87
Mean −0.02009
Std Dev 0.2892

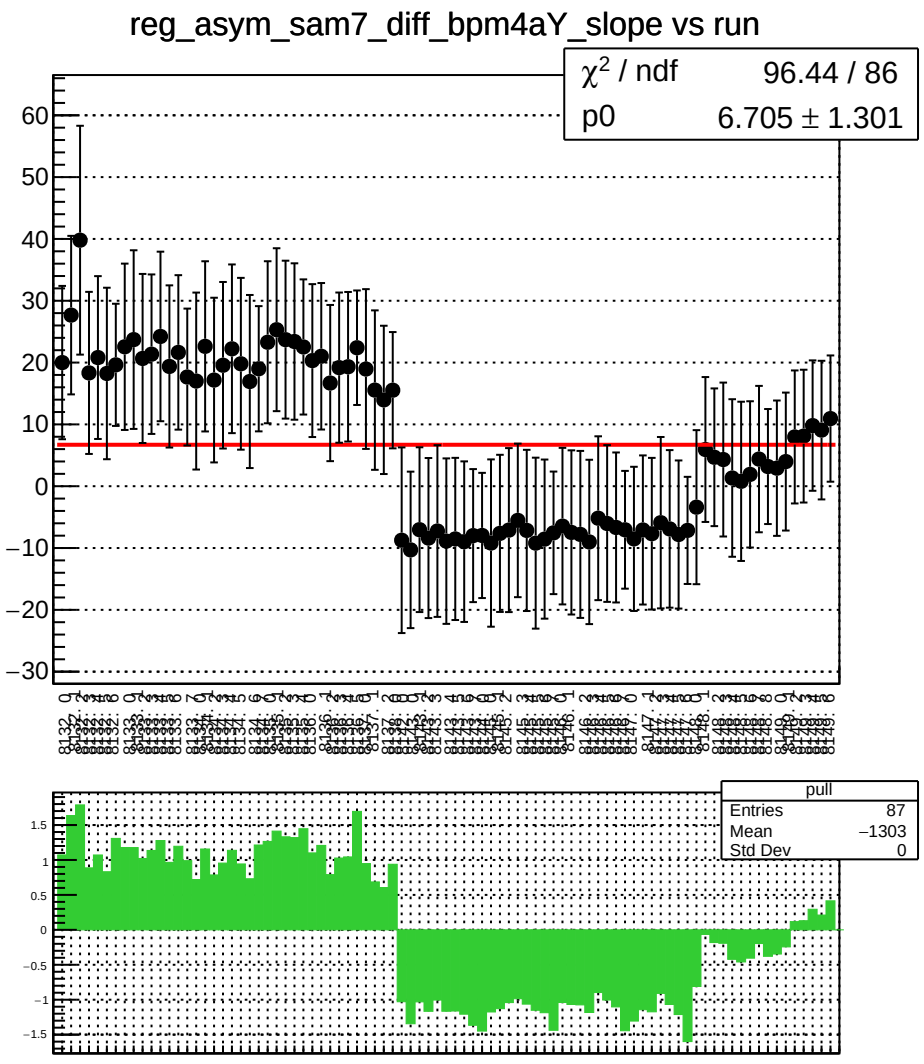

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 58.77 / 86
p0 100.3 ± 2.364
pull
Entries 87
Mean 804.4
Std Dev 0
pull1D
Entries 87
Mean −0.01673
Std Dev 0.8217

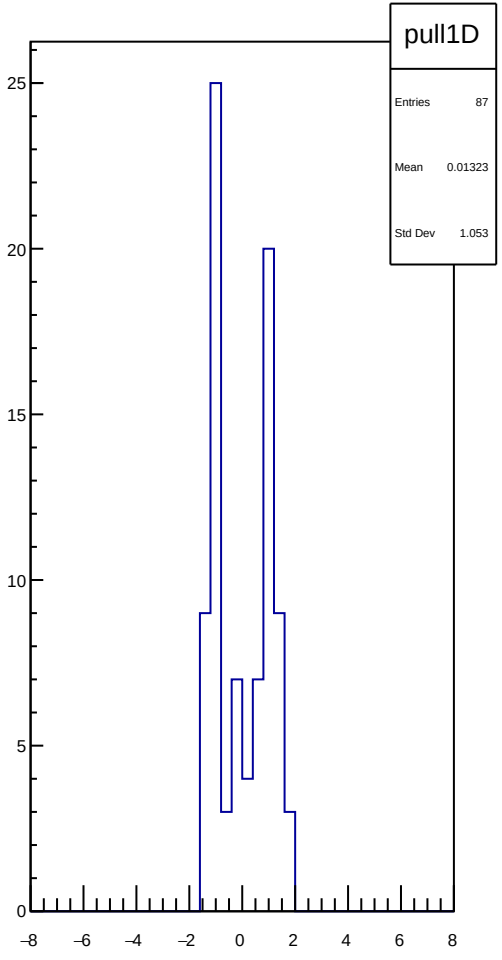

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 8.142 / 86
p0 46.8 ± 1.317
120
100
80
60
40
pull
Entries 87
Mean −114.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
pull1D
Entries 87
Mean 0.02397
Std Dev 0.305
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

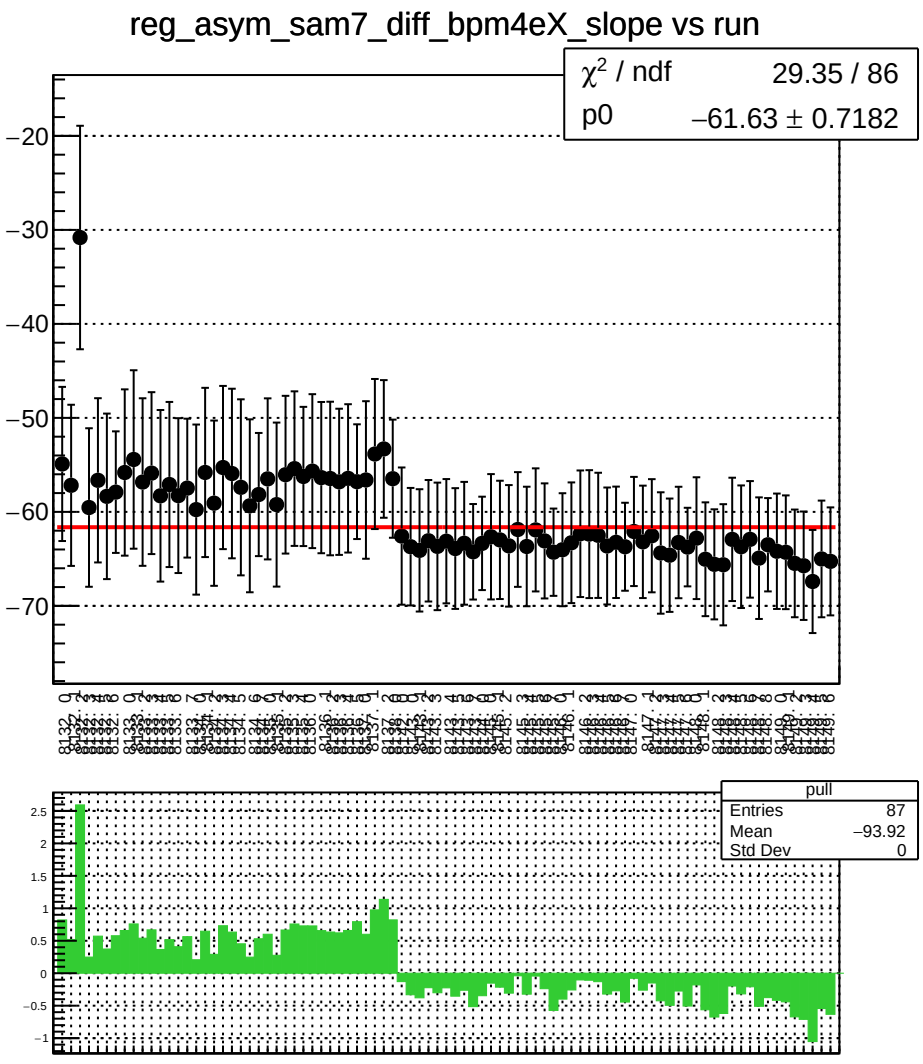

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 49.2 / 86
p0 3.724 ± 2.53
pull
Entries 87
Mean 940.3
Std Dev 0
pull1D
Entries 87
Mean 0.01319
Std Dev 0.7519

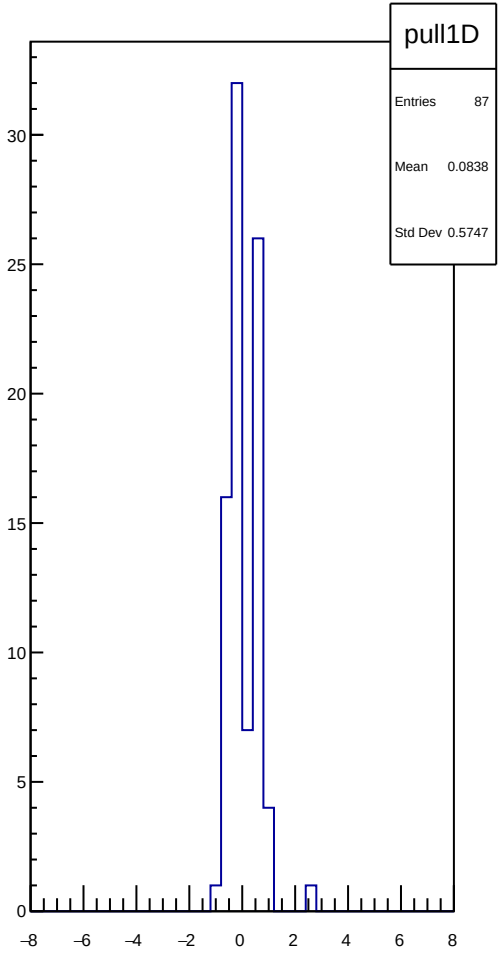

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 56.04 / 86
p0 −1.118 ± 0.102
pull
Entries 87
Mean 363.6
Std Dev 0
pull1D
Entries 87
Mean 0.0492
Std Dev 0.8011

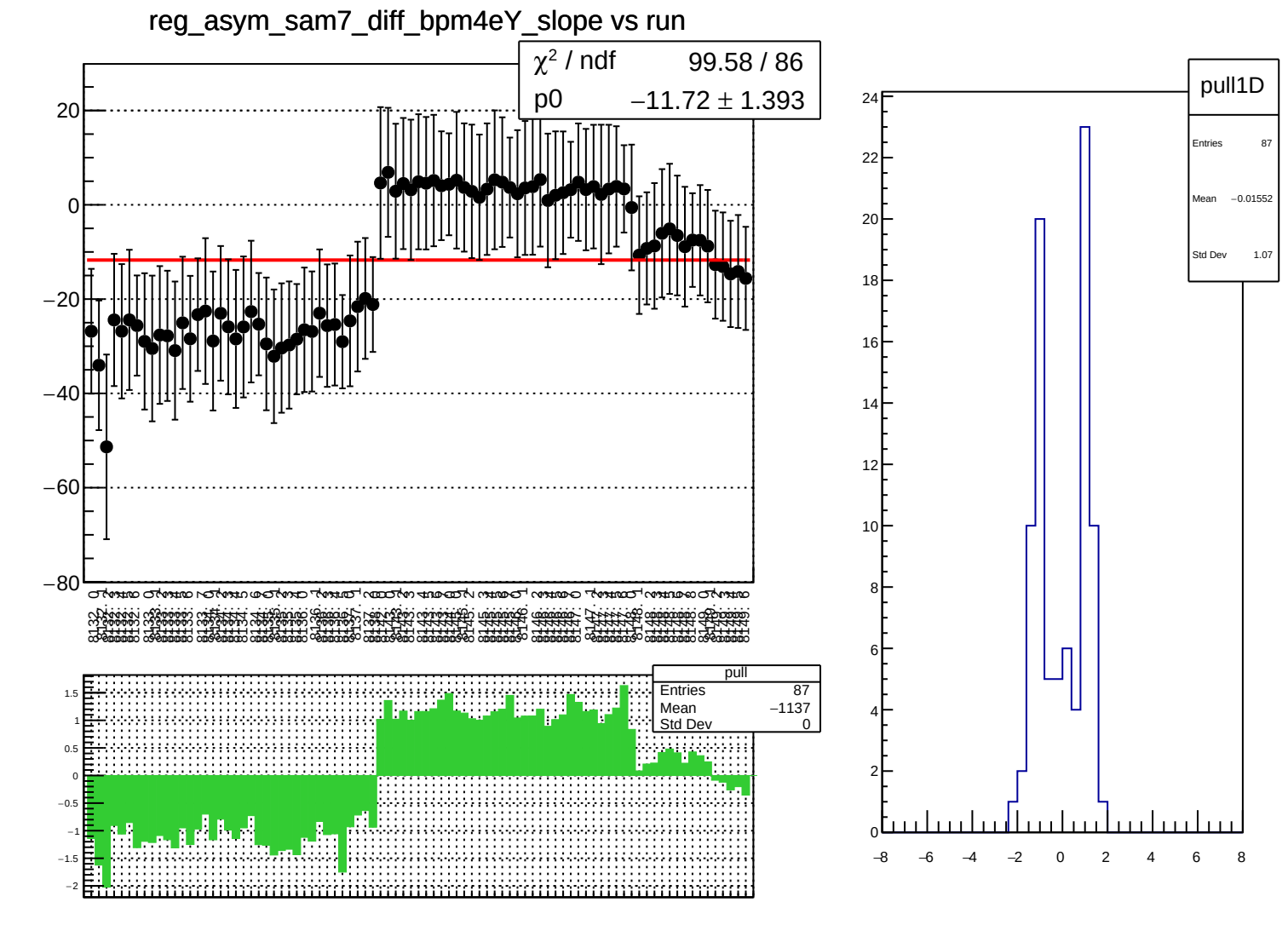

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 29.24 / 86
p0 23.6 ± 0.7231
pull
Entries 87
Mean −73.95
Std Dev 0
pull1D
Entries 87
Mean −0.09774
Std Dev 0.5714

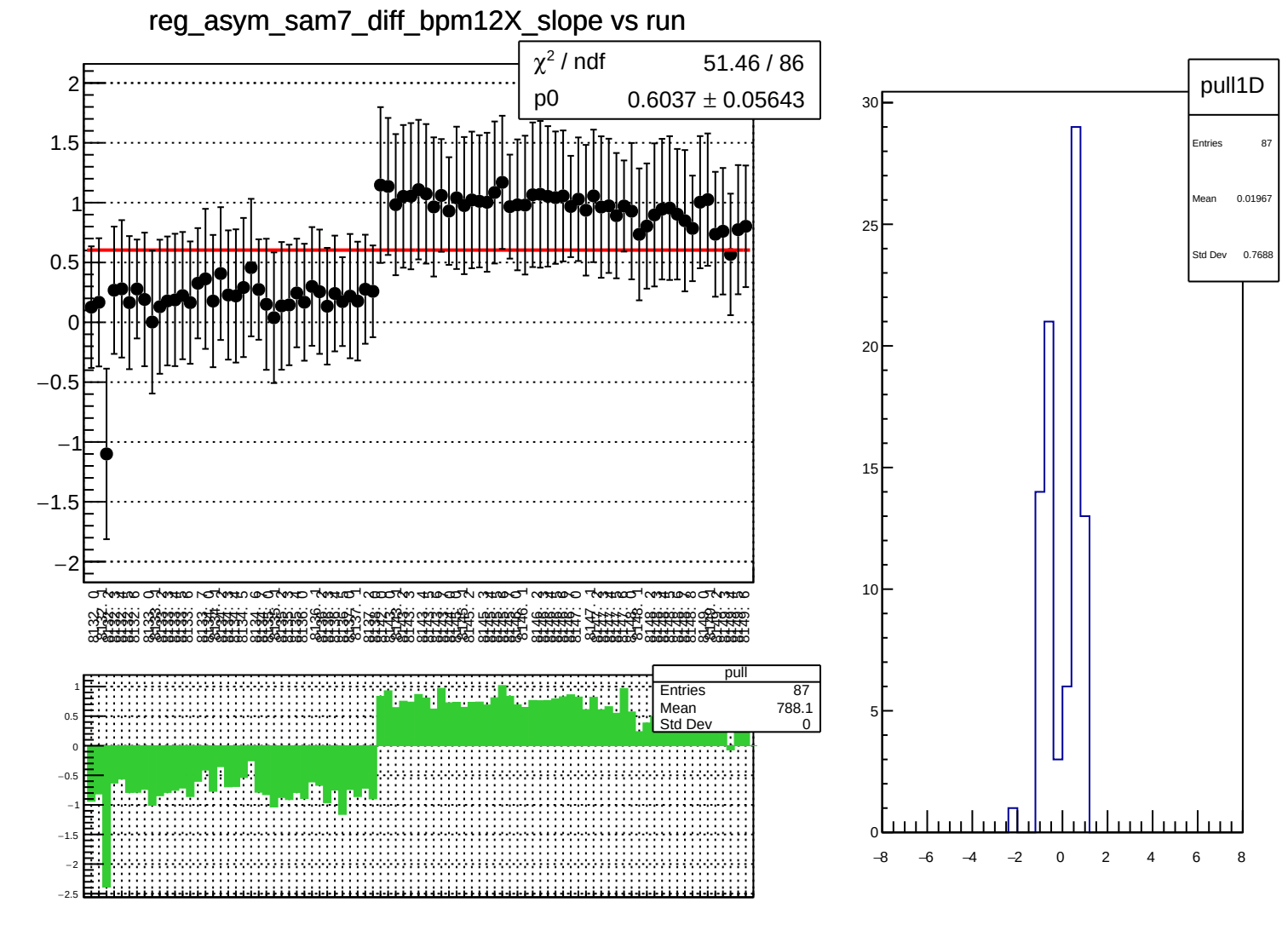

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 96.44 / 86
p0 6.705 ± 1.301
pull
Entries 87
Mean −1303
Std Dev 0

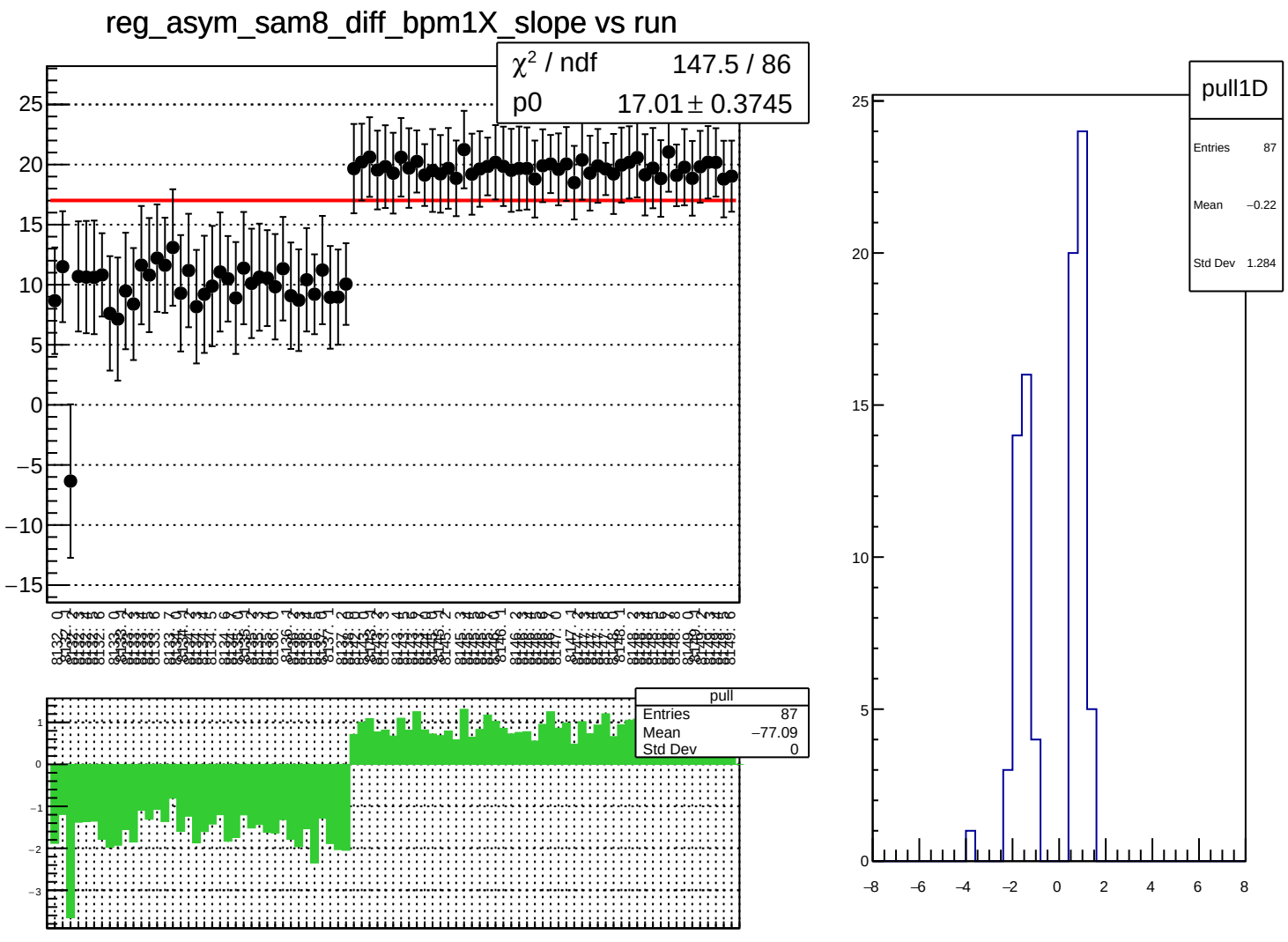

pull1D
Entries 87
Mean 0.01323
Std Dev 1.053

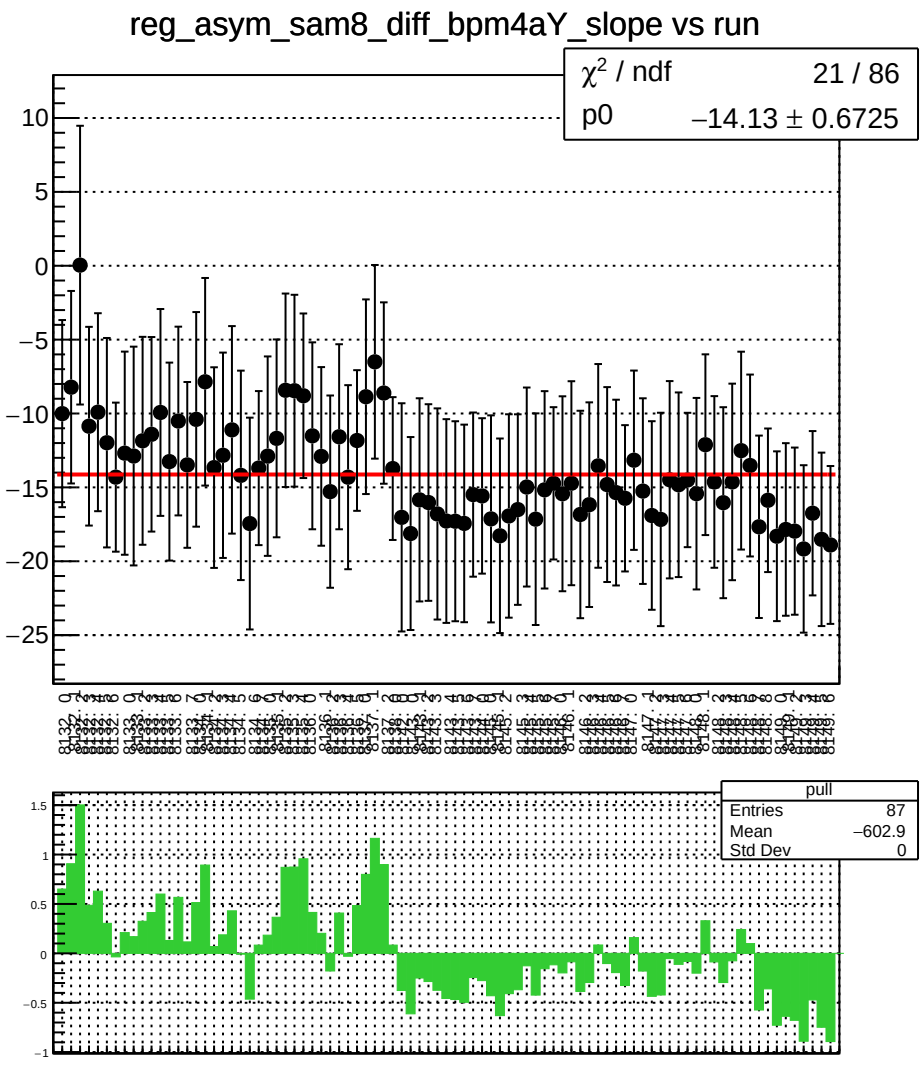

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 29.35 / 86
p0 −61.63 ± 0.7182
pull
Entries 87
Mean −93.92
Std Dev 0

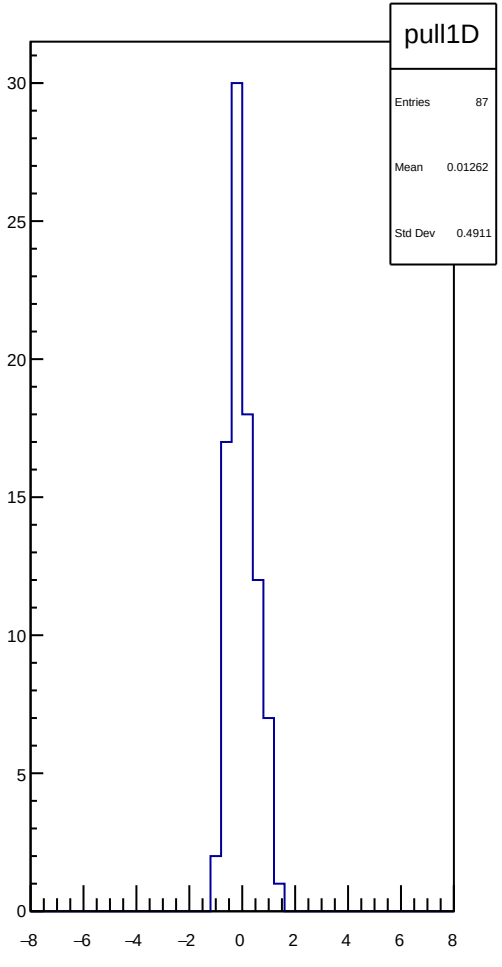

pull1D
Entries 87
Mean 0.0838
Std Dev 0.5747

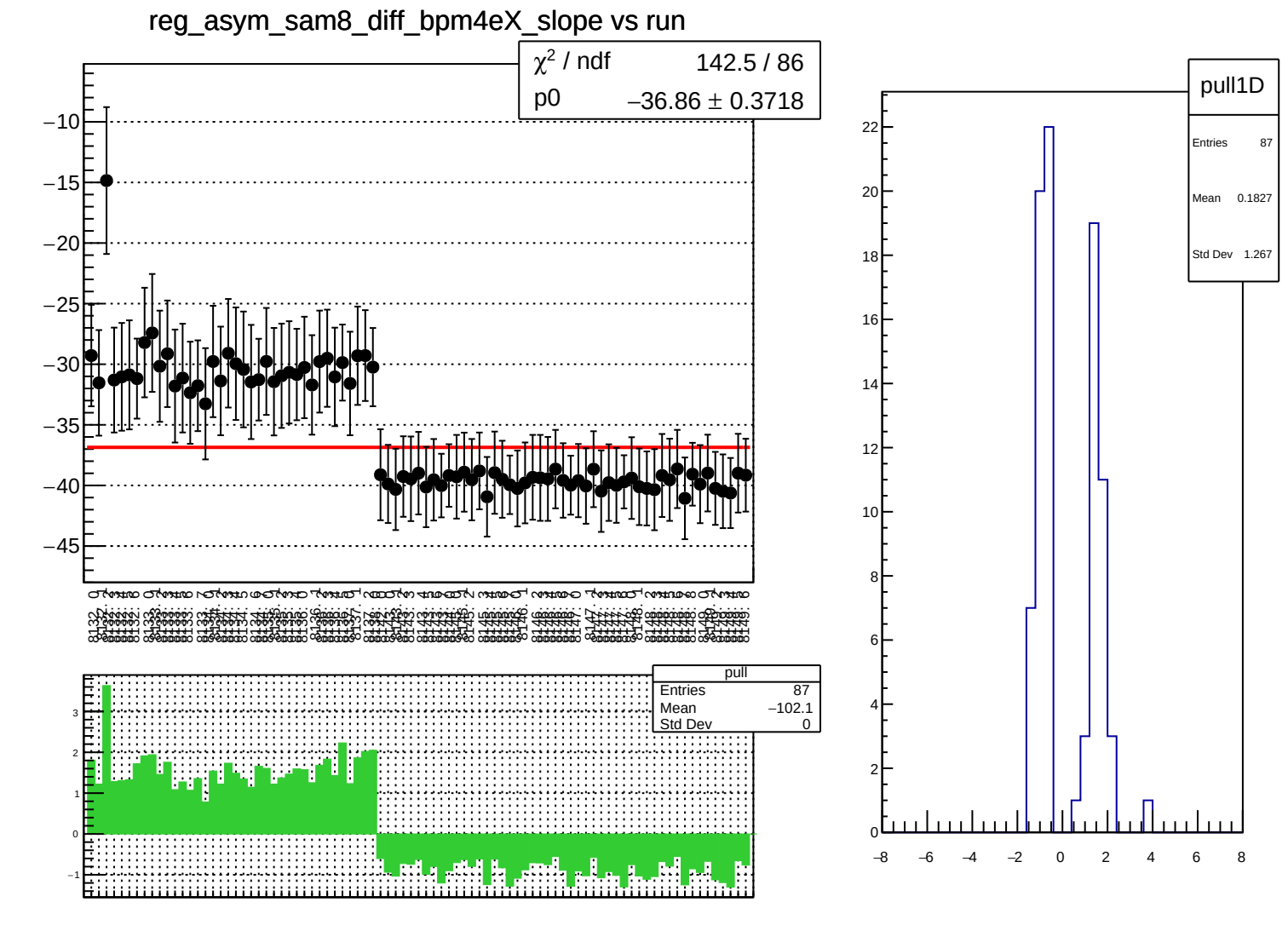

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 99.58 / 86
p0 −11.72 ± 1.393
pull
Entries 87
Mean −1137
Std Dev 0
pull1D
Entries 87
Mean −0.01552
Std Dev 1.07

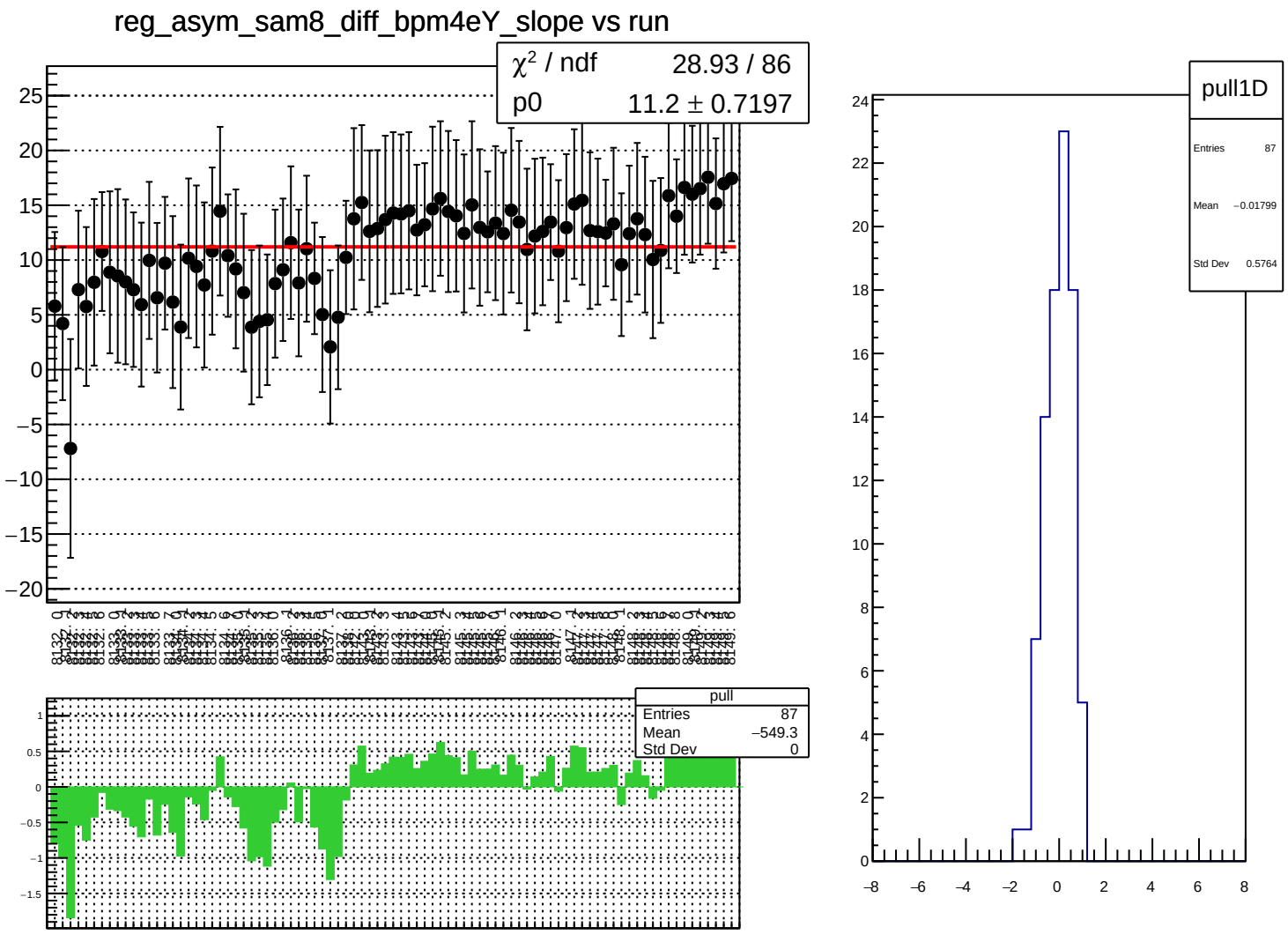

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 51.46 / 86
p0 0.6037 ± 0.05643
pull
Entries 87
Mean 788.1
Std Dev 0
pull1D
Entries 87
Mean 0.01967
Std Dev 0.7688

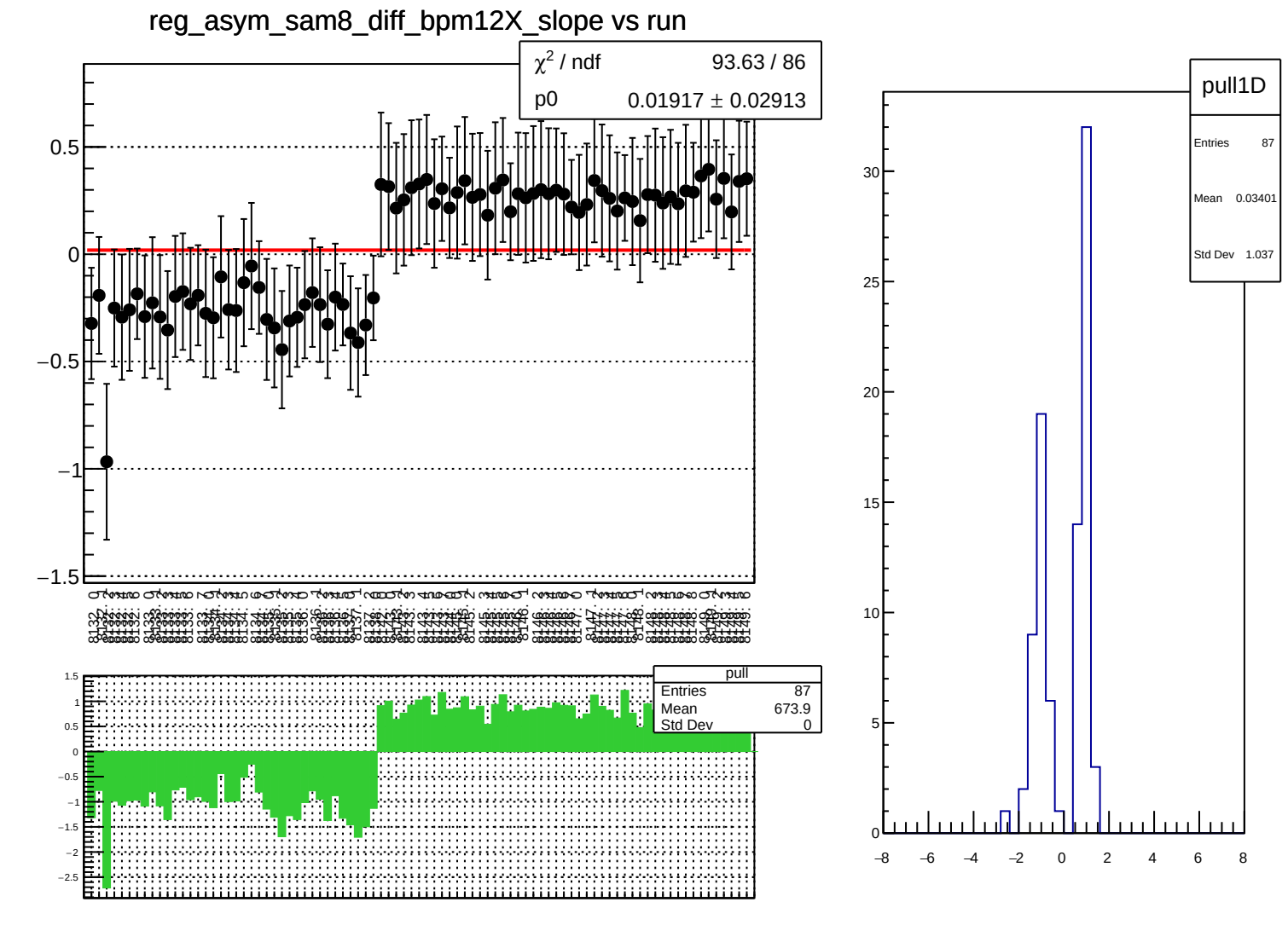

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 147.5 / 86
p0 17.01 ± 0.3745
pull
Entries 87
Mean −77.09
Std Dev 0
pull1D
Entries 87
Mean −0.22
Std Dev 1.284

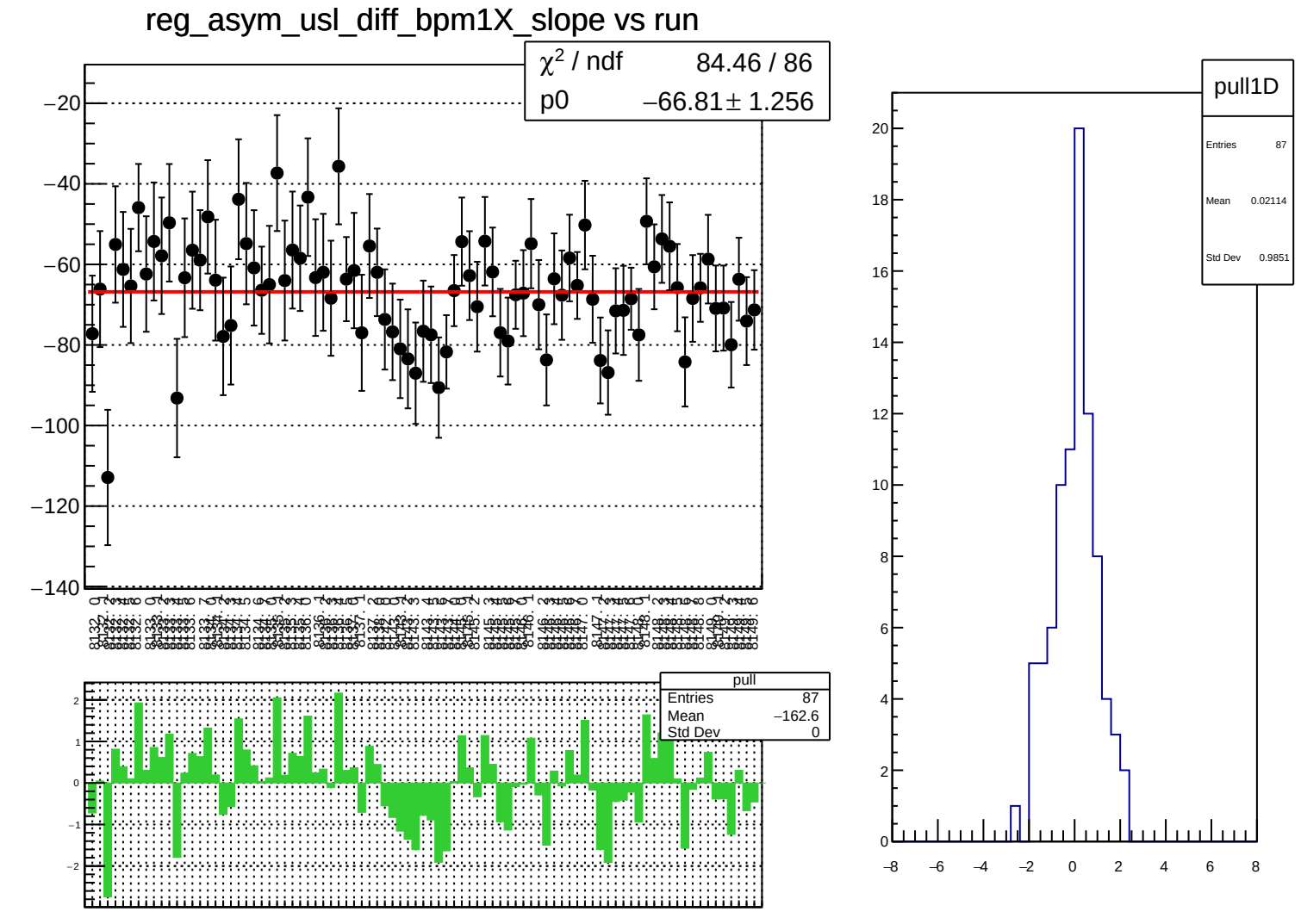

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 21 / 86
p0 −14.13 ± 0.6725
pull
Entries 87
Mean −602.9
Std Dev 0

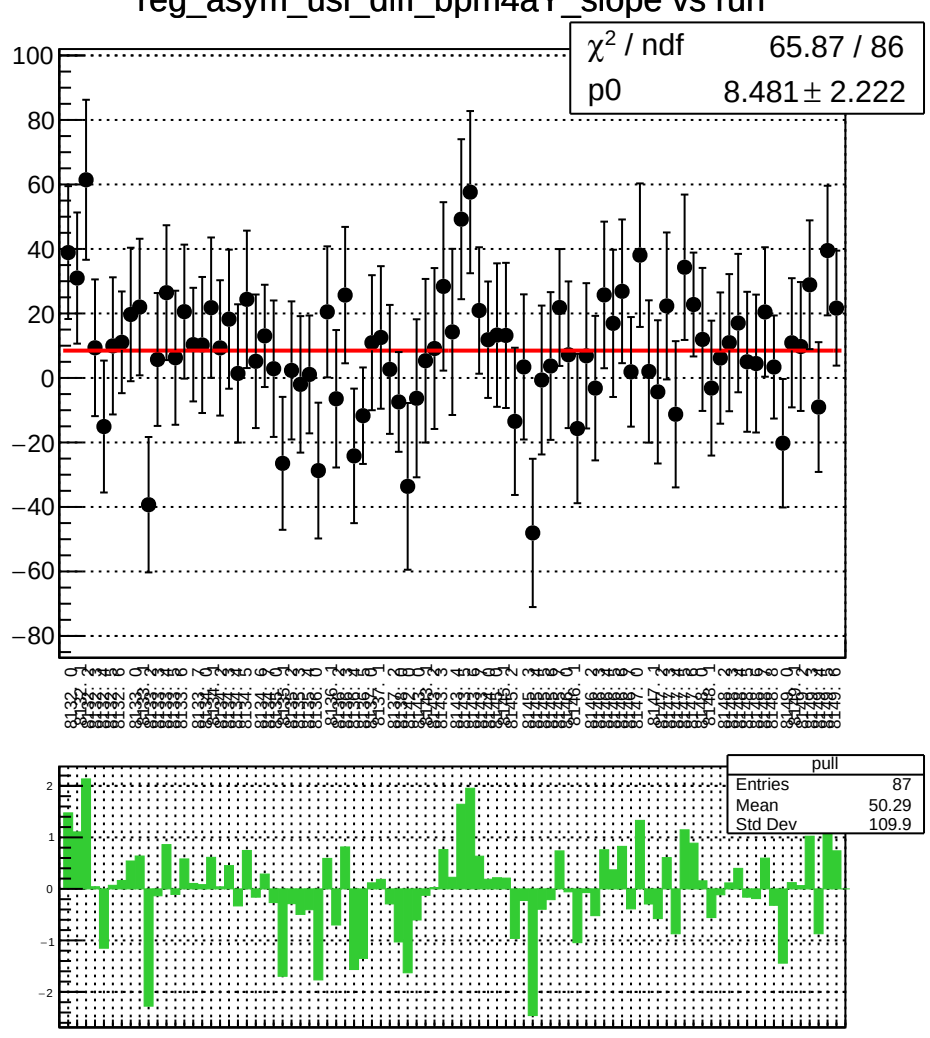

pull1D
Entries 87
Mean 0.01262
Std Dev 0.4911

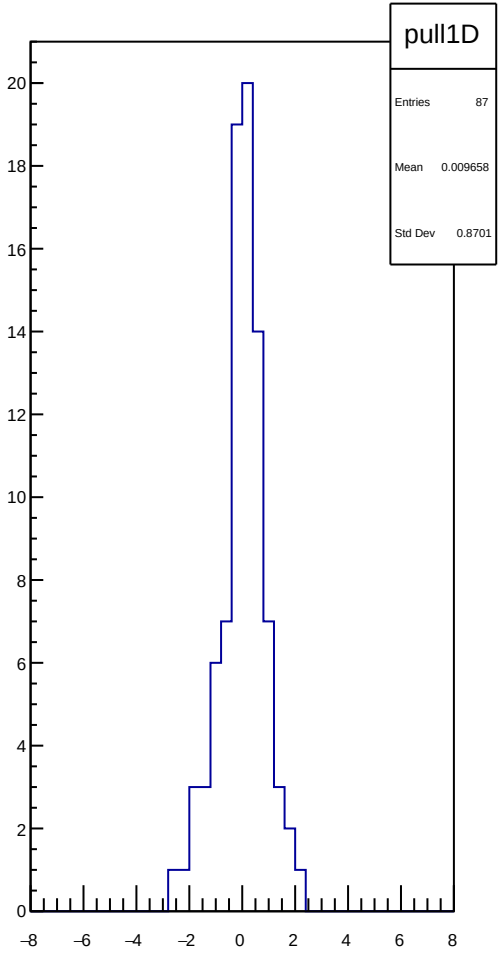

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 142.5 / 86
p0 −36.86 ± 0.3718
pull
Entries 87
Mean −102.1
Std Dev 0
pull1D
Entries 87
Mean 0.1827
Std Dev 1.267

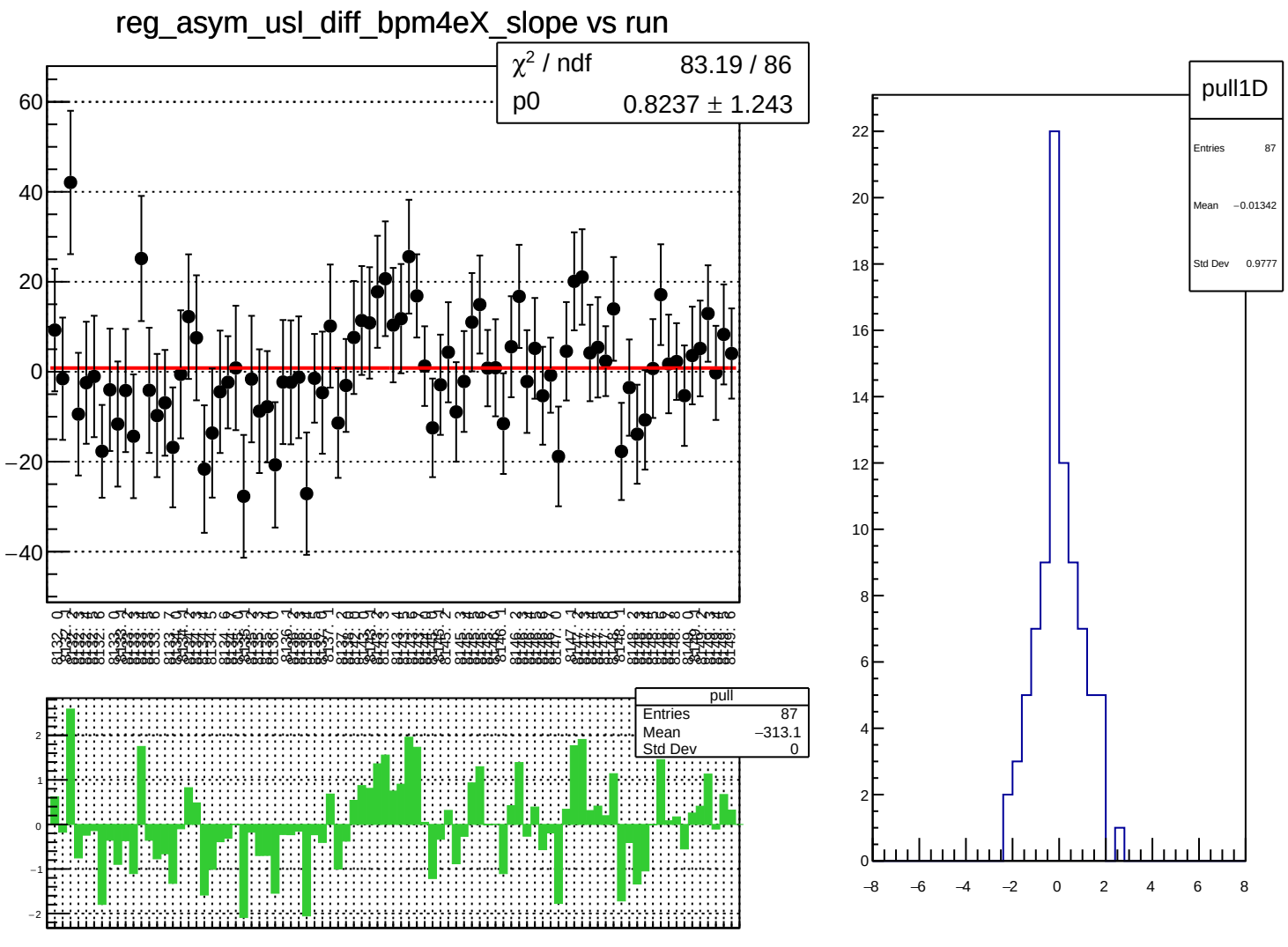

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 28.93 / 86
p0 11.2 ± 0.7197
pull
Entries 87
Mean −549.3
Std Dev 0
pull1D
Entries 87
Mean −0.01799
Std Dev 0.5764

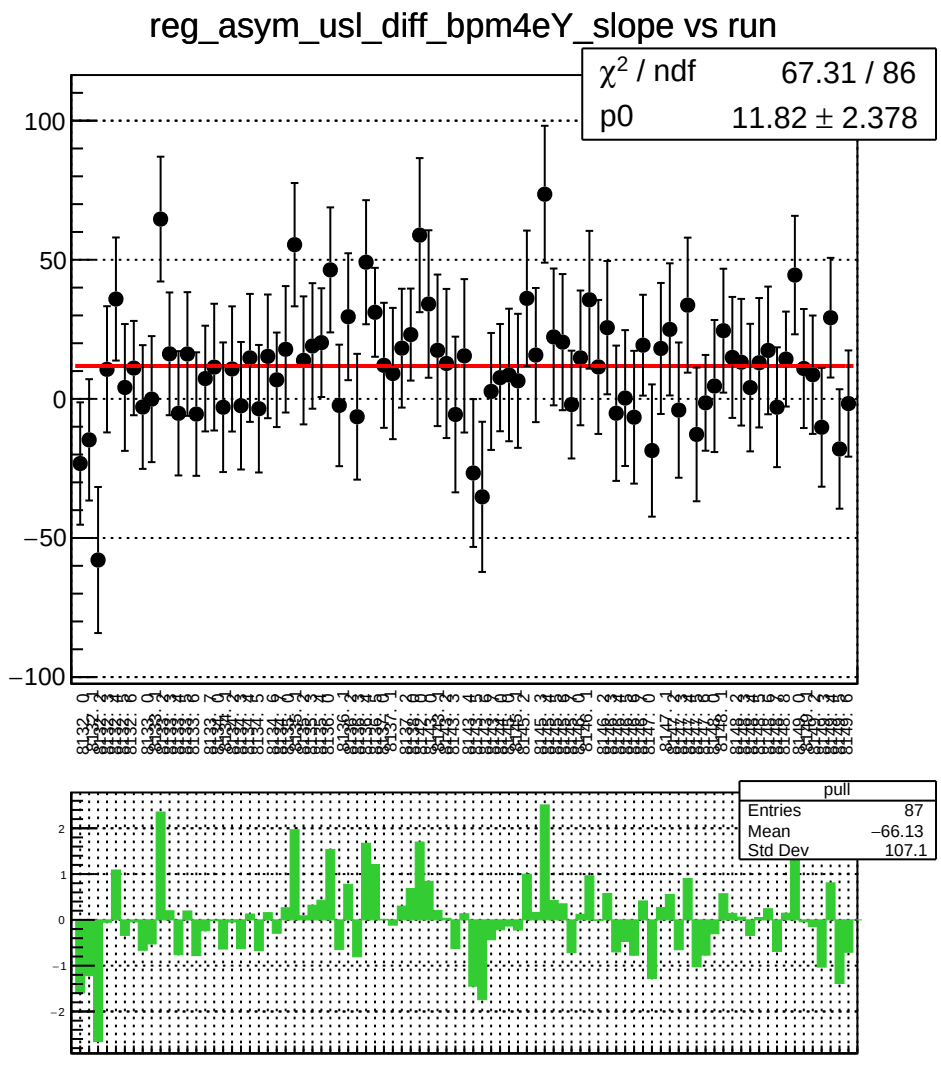

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 93.63 / 86
p0 0.01917 ± 0.02913
pull
Entries 87
Mean 673.9
Std Dev 0
pull1D
Entries 87
Mean 0.03401
Std Dev 1.037

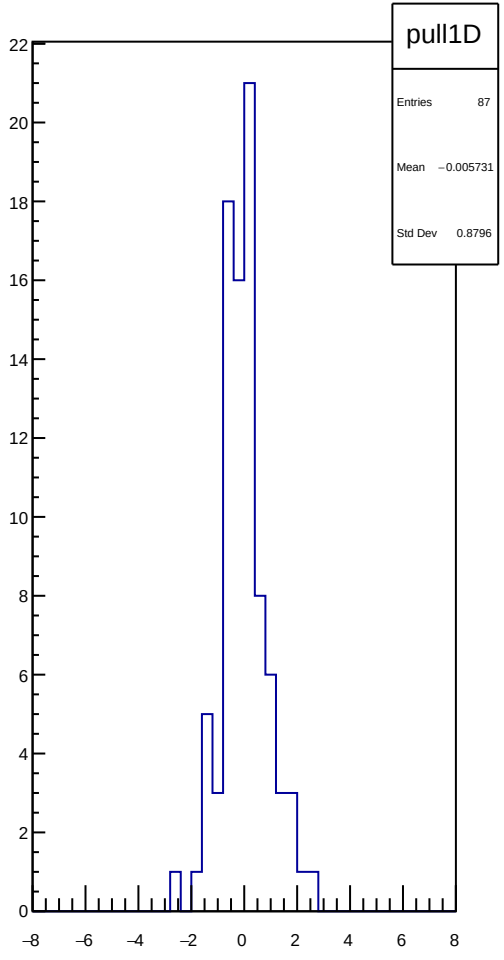

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 84.46 / 86
p0 −66.81 ± 1.256
pull
Entries 87
Mean −162.6
Std Dev 0
pull1D
Entries 87
Mean 0.02114
Std Dev 0.9851

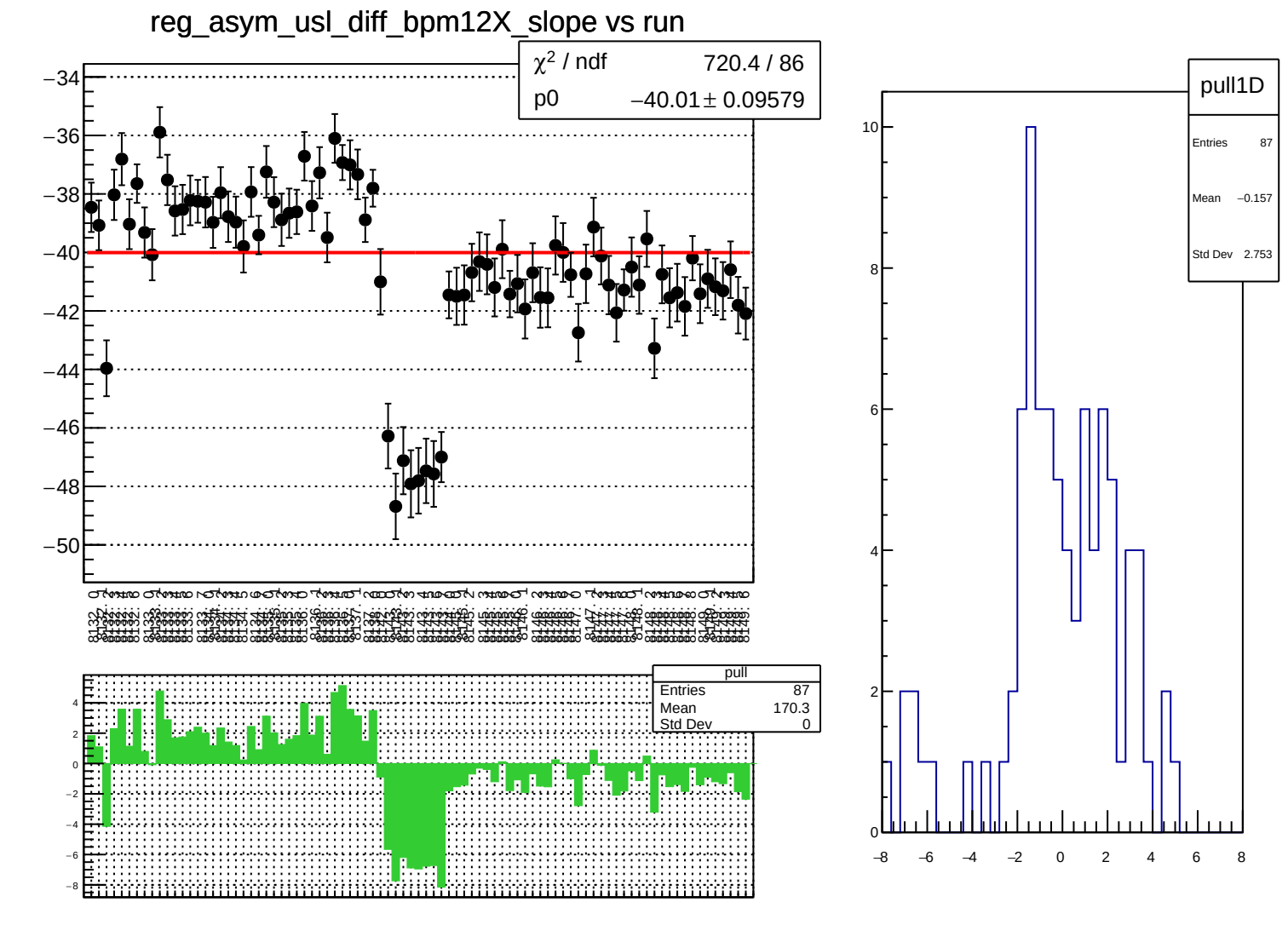

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 65.87 / 86
p0 8.481 ± 2.222
pull
Entries 87
Mean 50.29
Std Dev 109.9

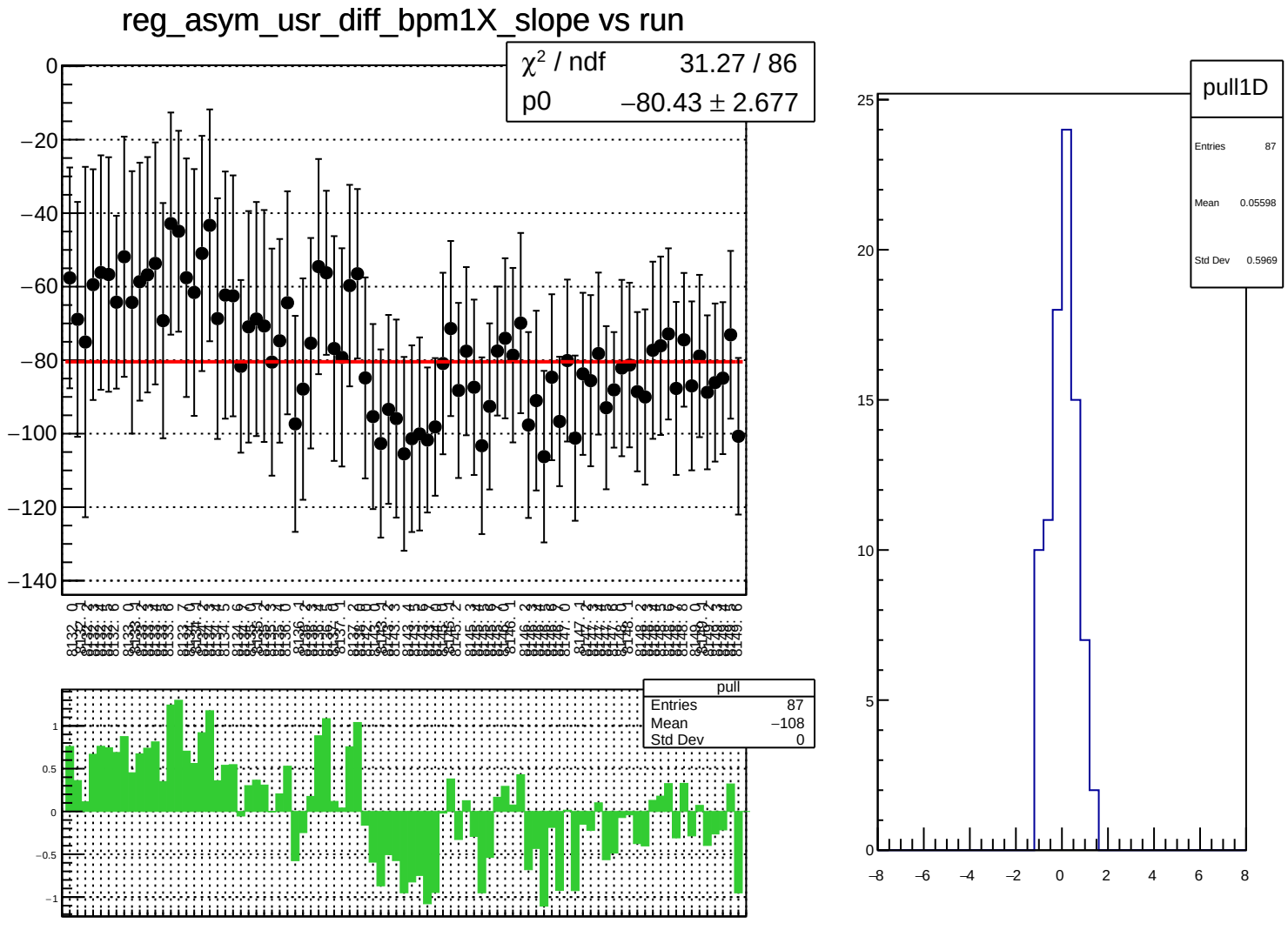

pull1D
Entries 87
Mean 0.009658
Std Dev 0.8701

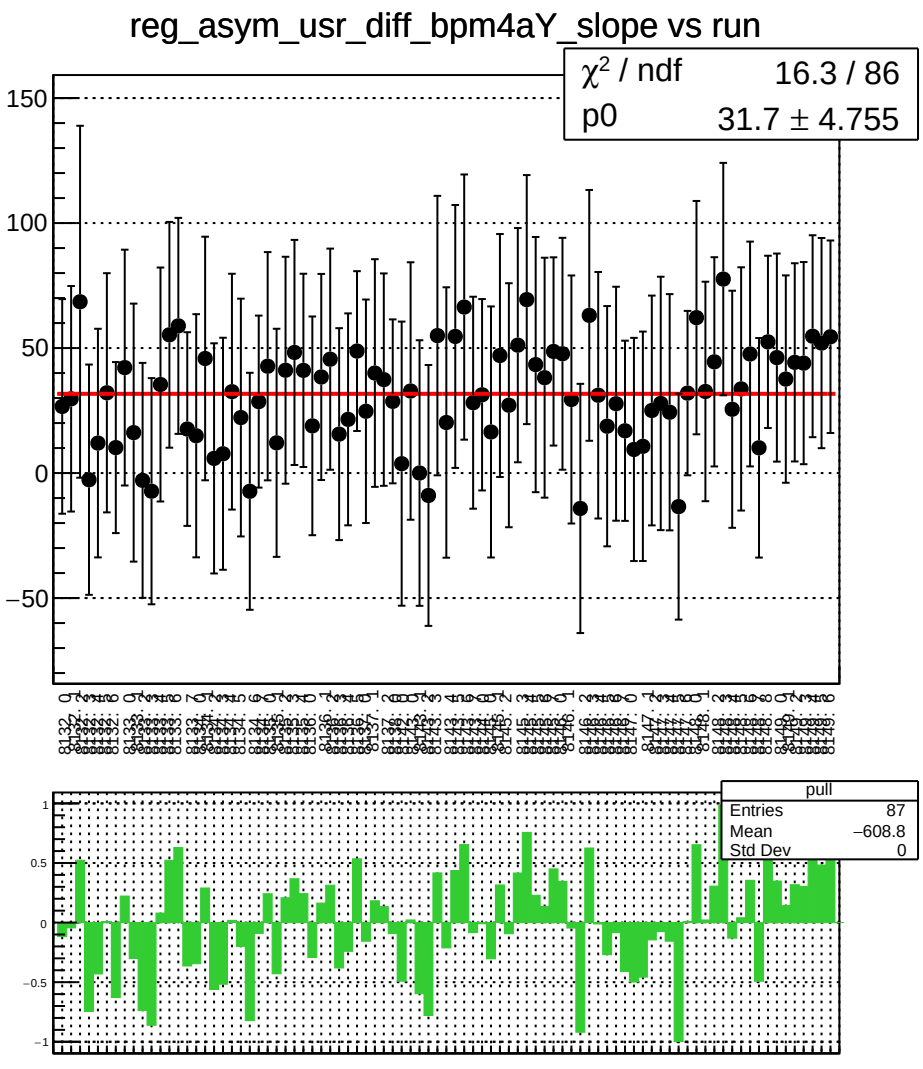

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 83.19 / 86
p0 0.8237 ± 1.243
pull
Entries 87
Mean −313.1
Std Dev 0
pull1D
Entries 87
Mean −0.01342
Std Dev 0.9777

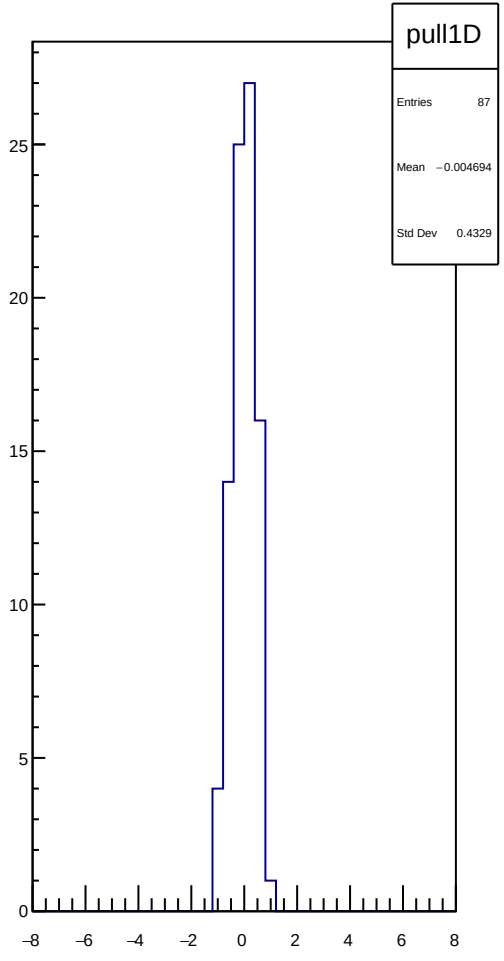

reg_asym_usl_diff_bpm4eY_slope vs run
χ^2 / ndf 67.31 / 86
p0 11.82 ± 2.378
100
50
0
−50
−100
pull
Entries 87
Mean −66.13
Std Dev 107.1
2
1
0
−1
−2

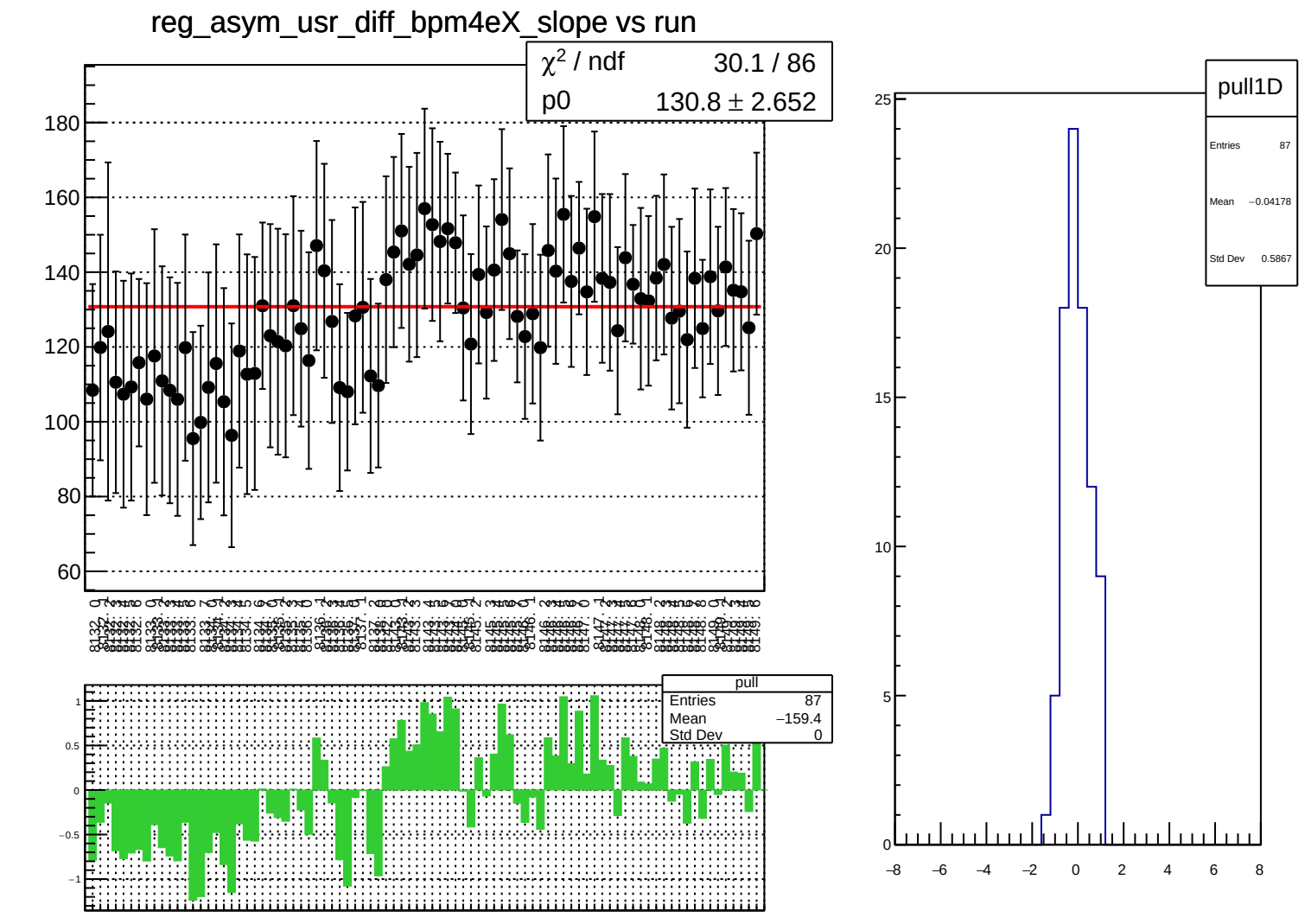

pull1D
Entries 87
Mean −0.005731
Std Dev 0.8796
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

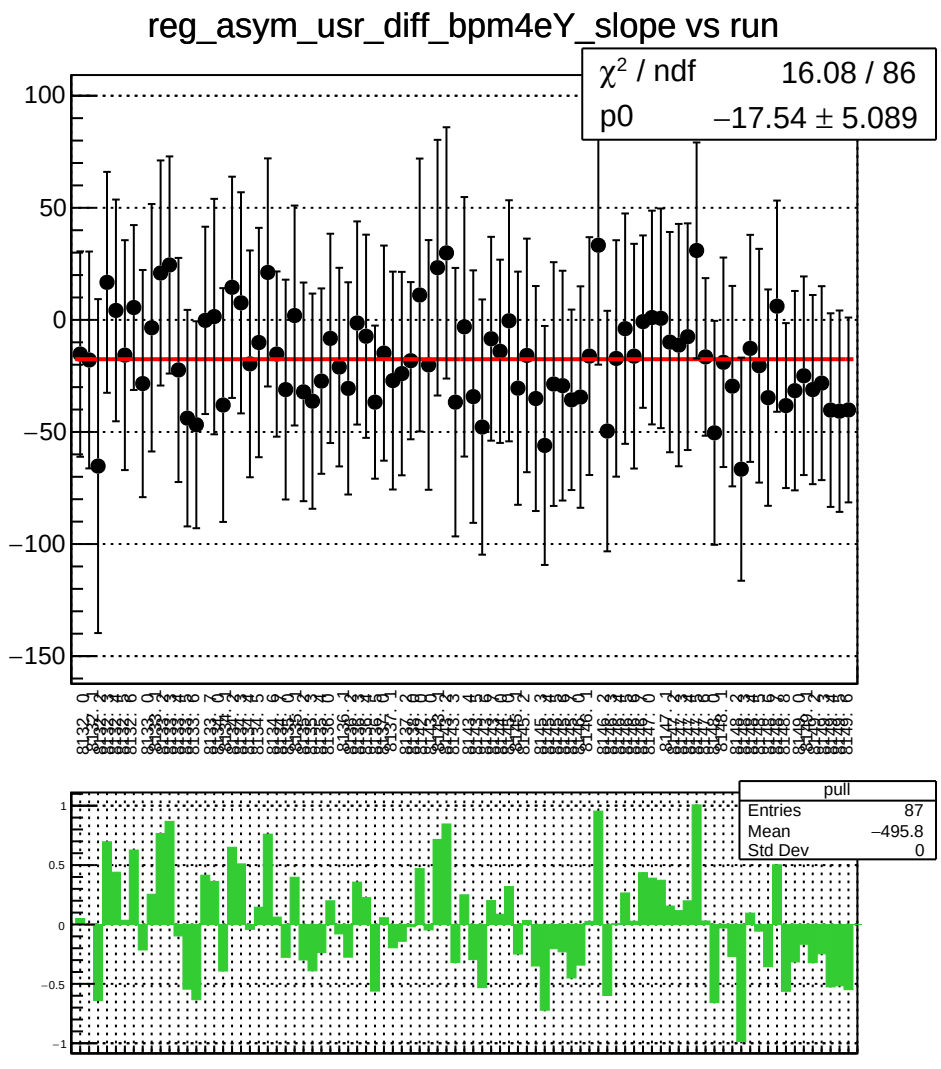

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 720.4 / 86
p0 −40.01 ± 0.09579
pull
Entries 87
Mean 170.3
Std Dev 0
pull1D
Entries 87
Mean −0.157
Std Dev 2.753

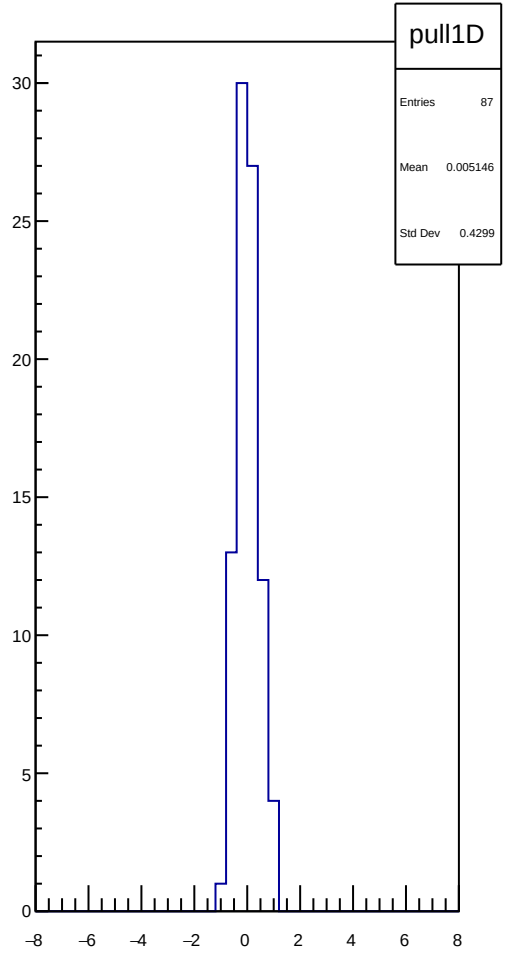

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 31.27 / 86
p0 −80.43 ± 2.677
pull
Entries 87
Mean −108
Std Dev 0
pull1D
Entries 87
Mean 0.05598
Std Dev 0.5969

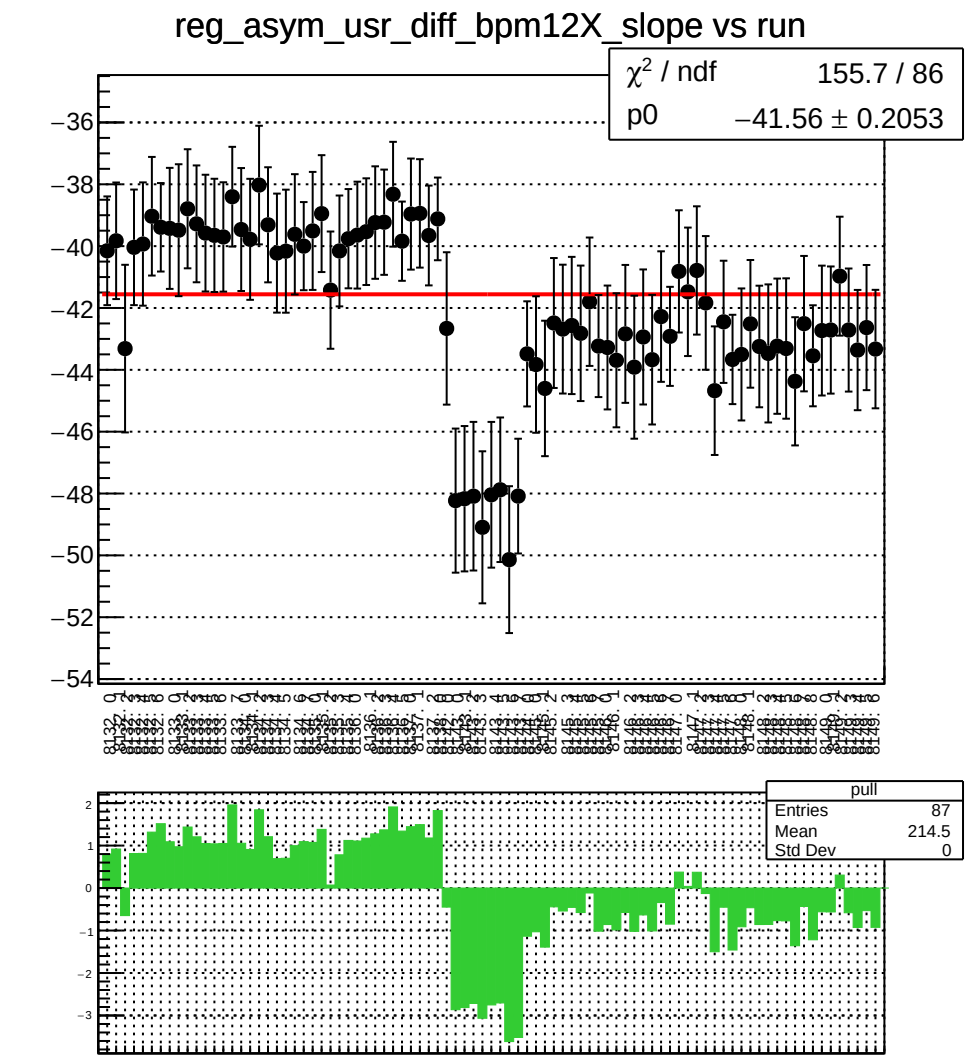

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 16.3 / 86
p0 31.7 ± 4.755
150
100
50
0
−50
pull
Entries 87
Mean −608.8
Std Dev 0
1
0.5
0
−0.5
−1

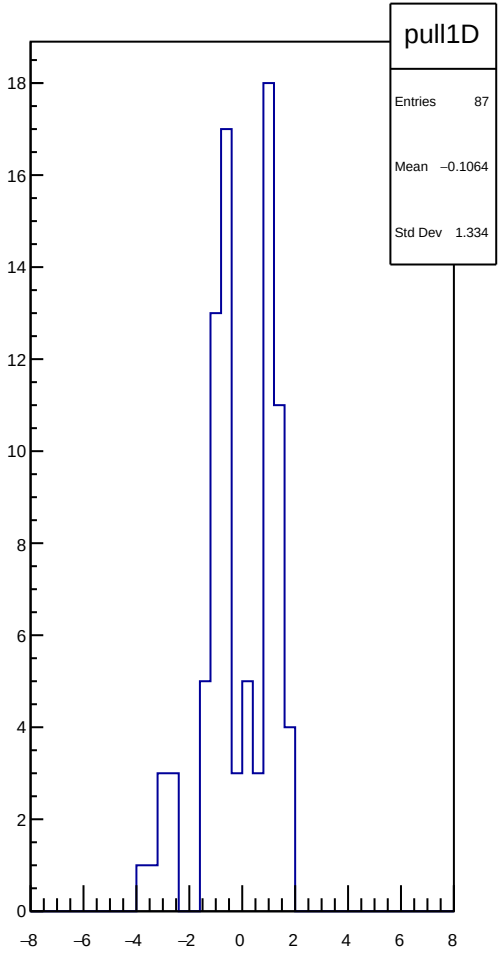

pull1D
Entries 87
Mean −0.004694
Std Dev 0.4329
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

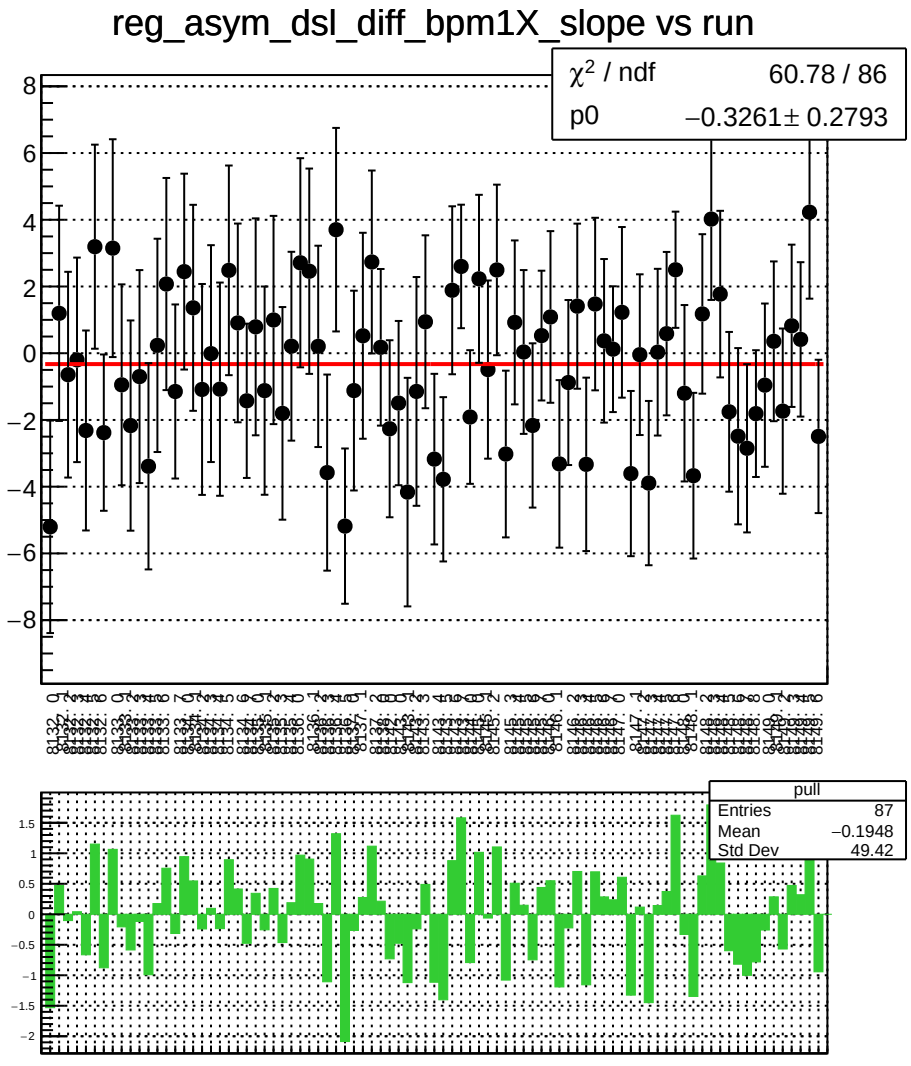

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 30.1 / 86
p0 130.8 ± 2.652
pull
Entries 87
Mean −159.4
Std Dev 0
pull1D
Entries 87
Mean −0.04178
Std Dev 0.5867

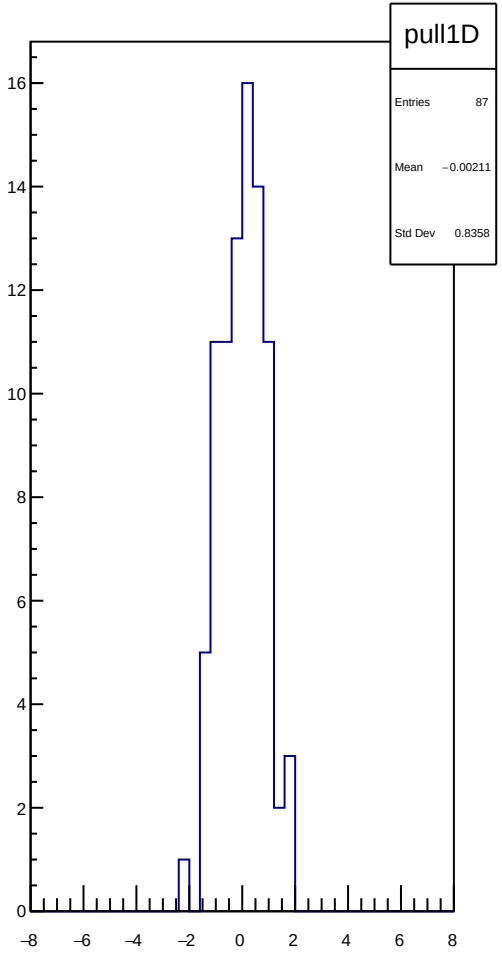

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 16.08 / 86
p0 −17.54 ± 5.089
pull
Entries 87
Mean −495.8
Std Dev 0

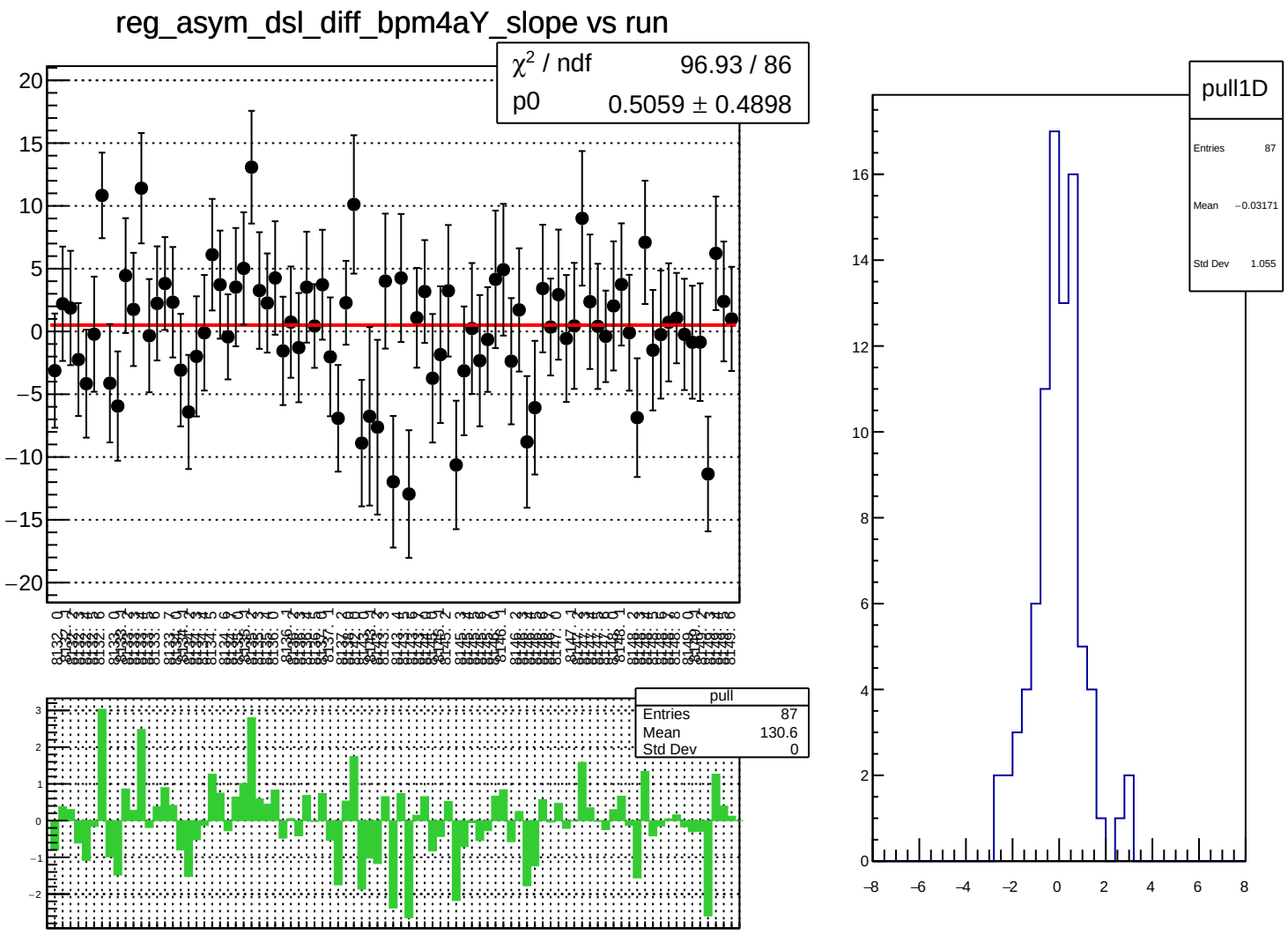

pull1D
Entries 87
Mean 0.005146
Std Dev 0.4299

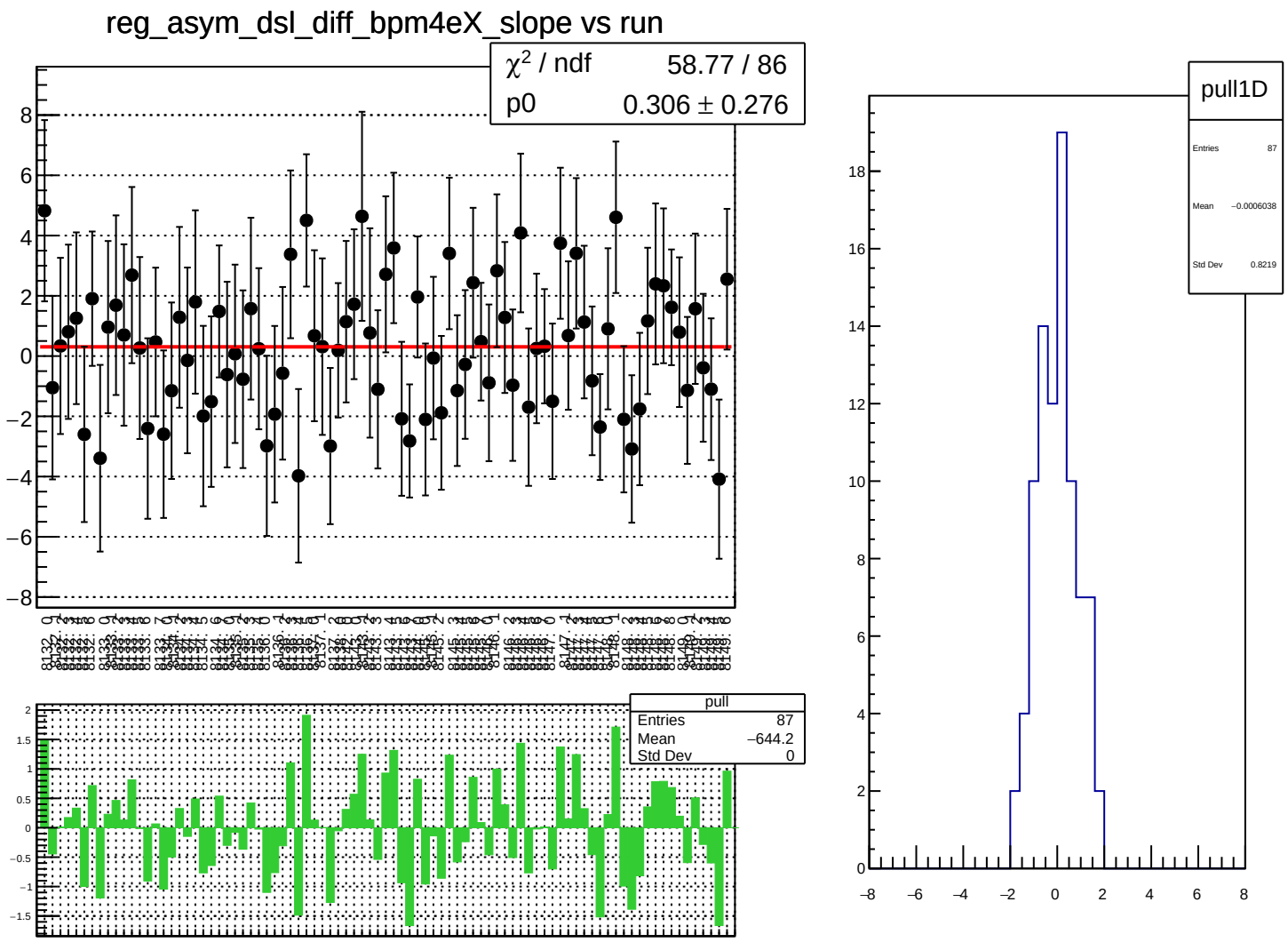

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 155.7 / 86
p0 −41.56 ± 0.2053
pull
Entries 87
Mean 214.5
Std Dev 0

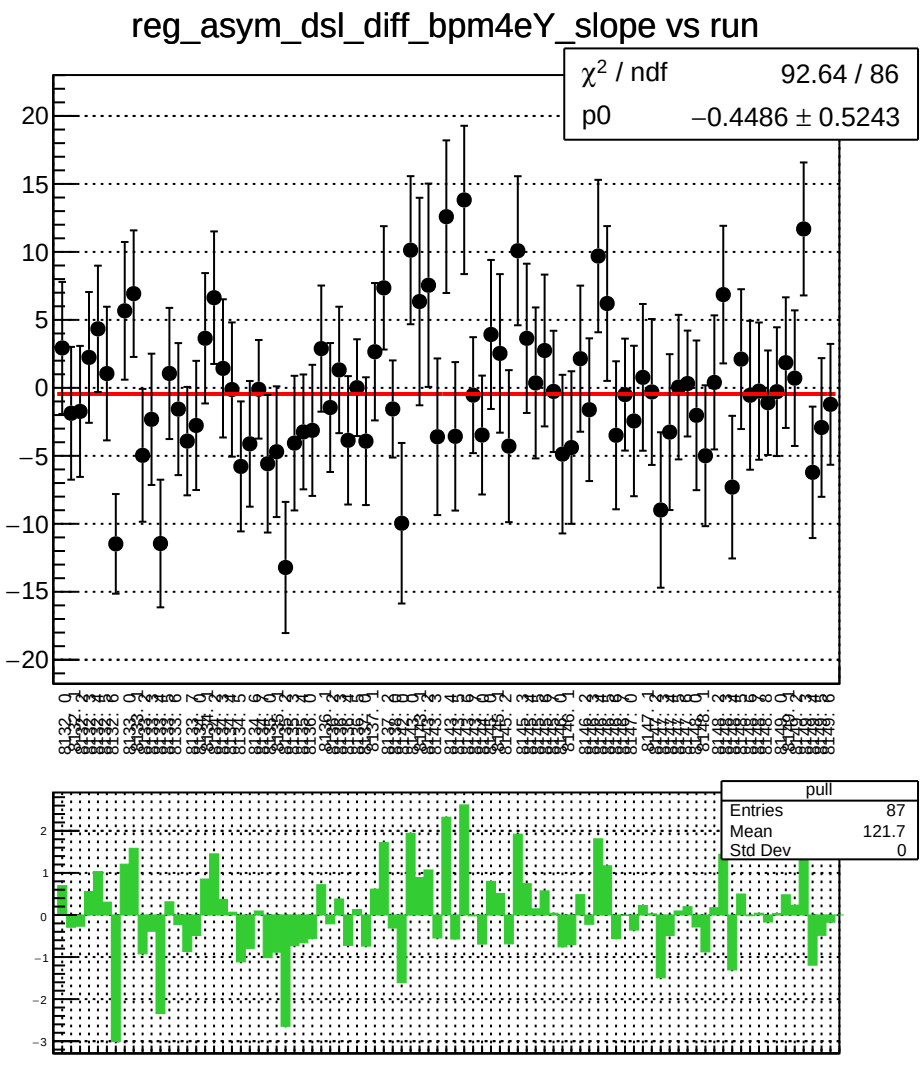

pull1D
Entries 87
Mean −0.1064
Std Dev 1.334

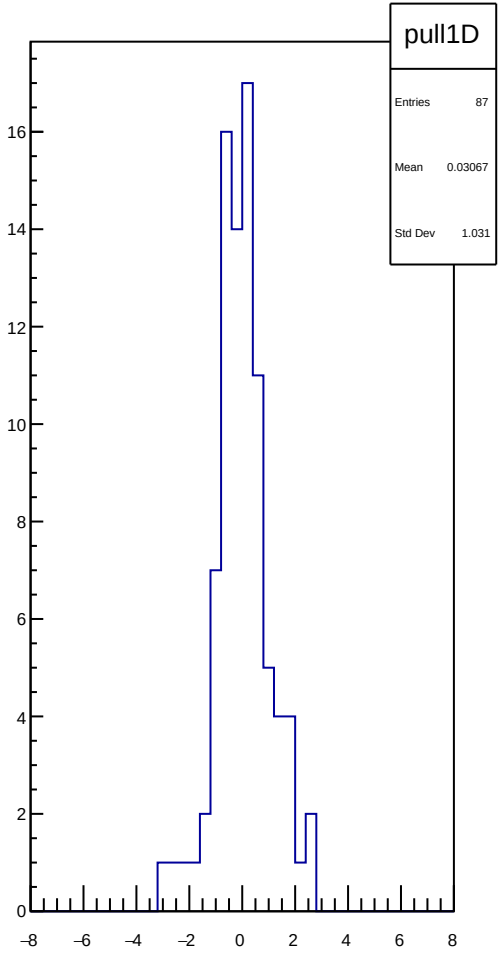

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 60.78 / 86
p0 −0.3261± 0.2793
pull
Entries 87
Mean −0.1948
Std Dev 49.42

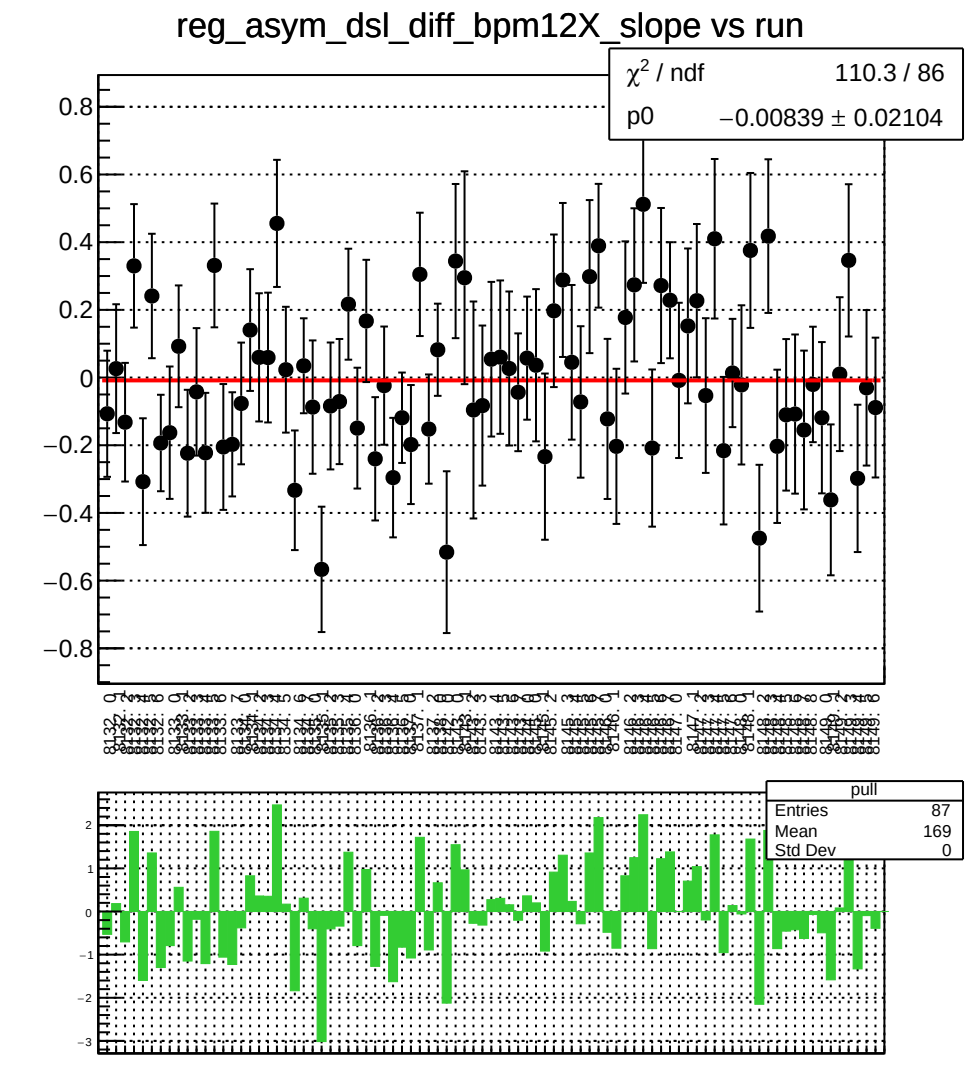

pull1D
Entries 87
Mean −0.00211
Std Dev 0.8358

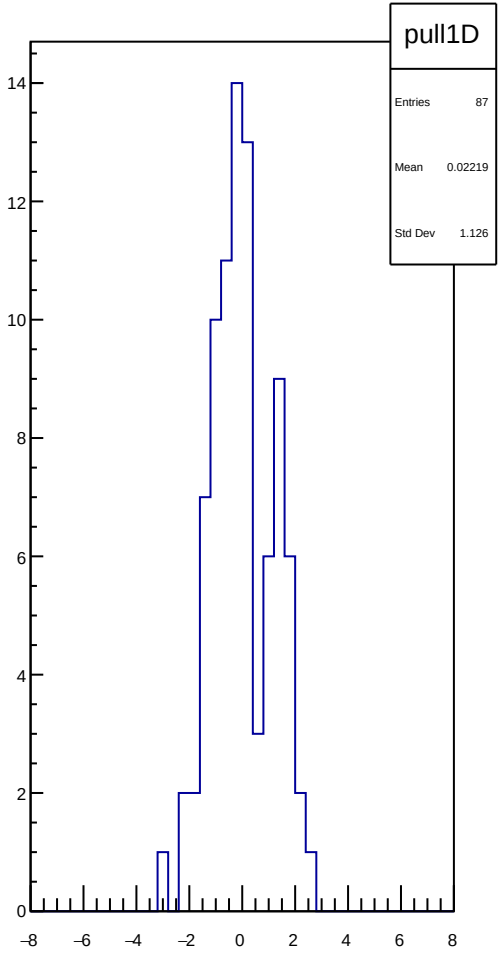

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 96.93 / 86
p0 0.5059 ± 0.4898
pull
Entries 87
Mean 130.6
Std Dev 0
pull1D
Entries 87
Mean −0.03171
Std Dev 1.055

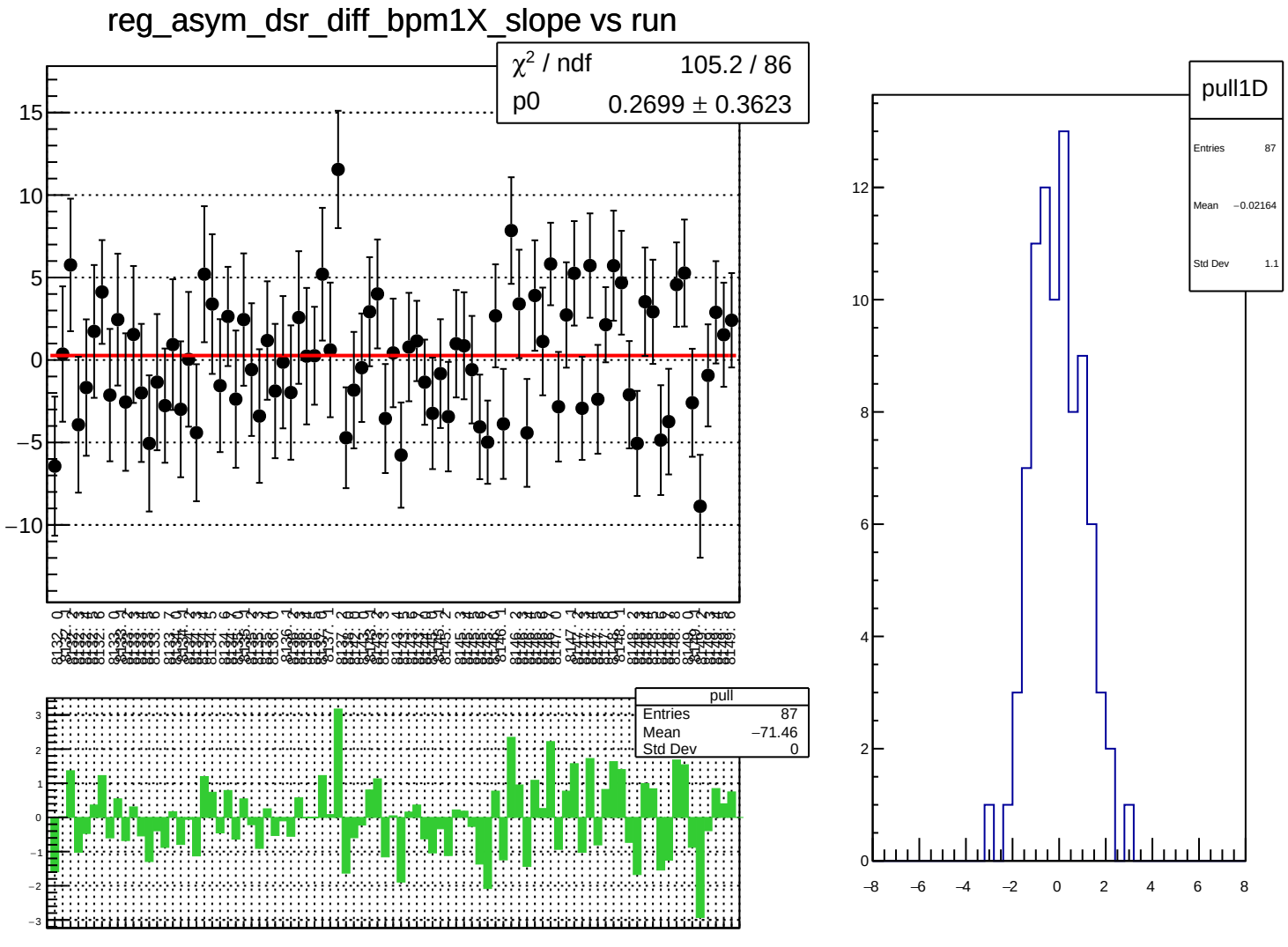

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 58.77 / 86
p0 0.306 ± 0.276
pull
Entries 87
Mean −644.2
Std Dev 0
pull1D
Entries 87
Mean −0.0006038
Std Dev 0.8219

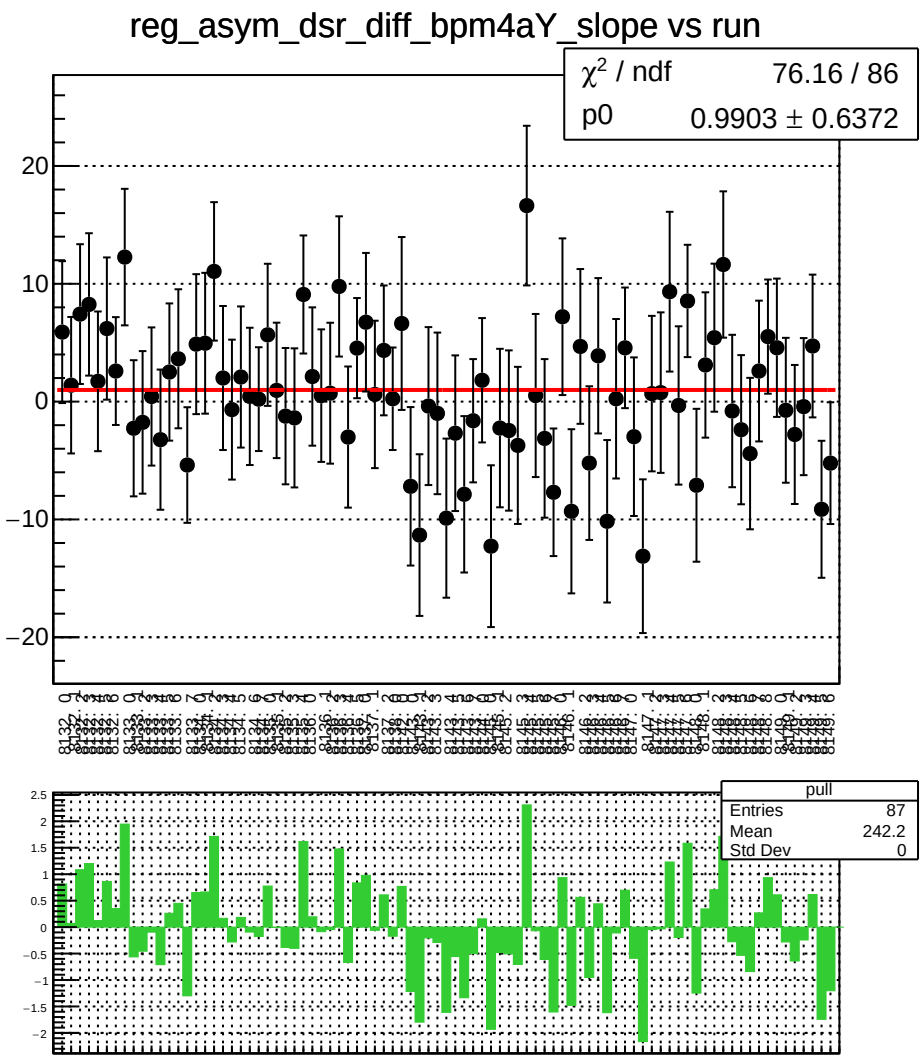

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 92.64 / 86
p0 −0.4486 ± 0.5243
pull
Entries 87
Mean 121.7
Std Dev 0

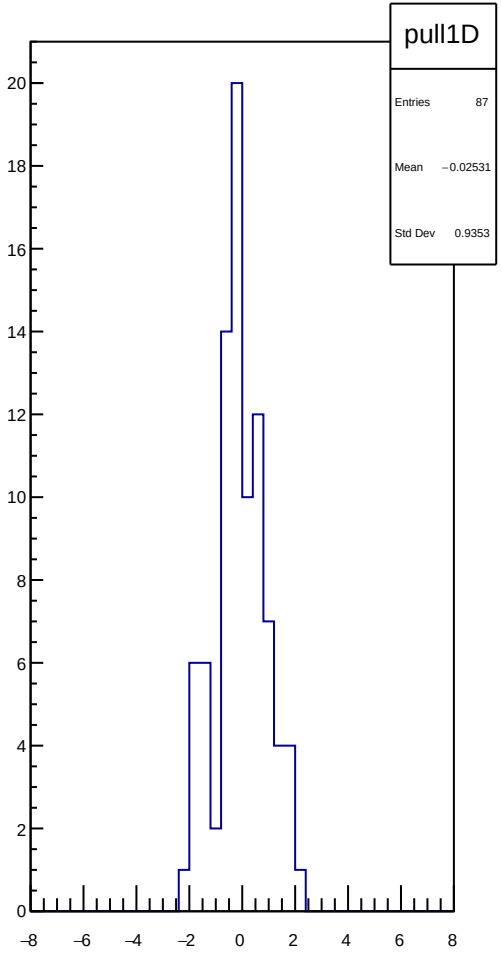

pull1D
Entries 87
Mean 0.03067
Std Dev 1.031

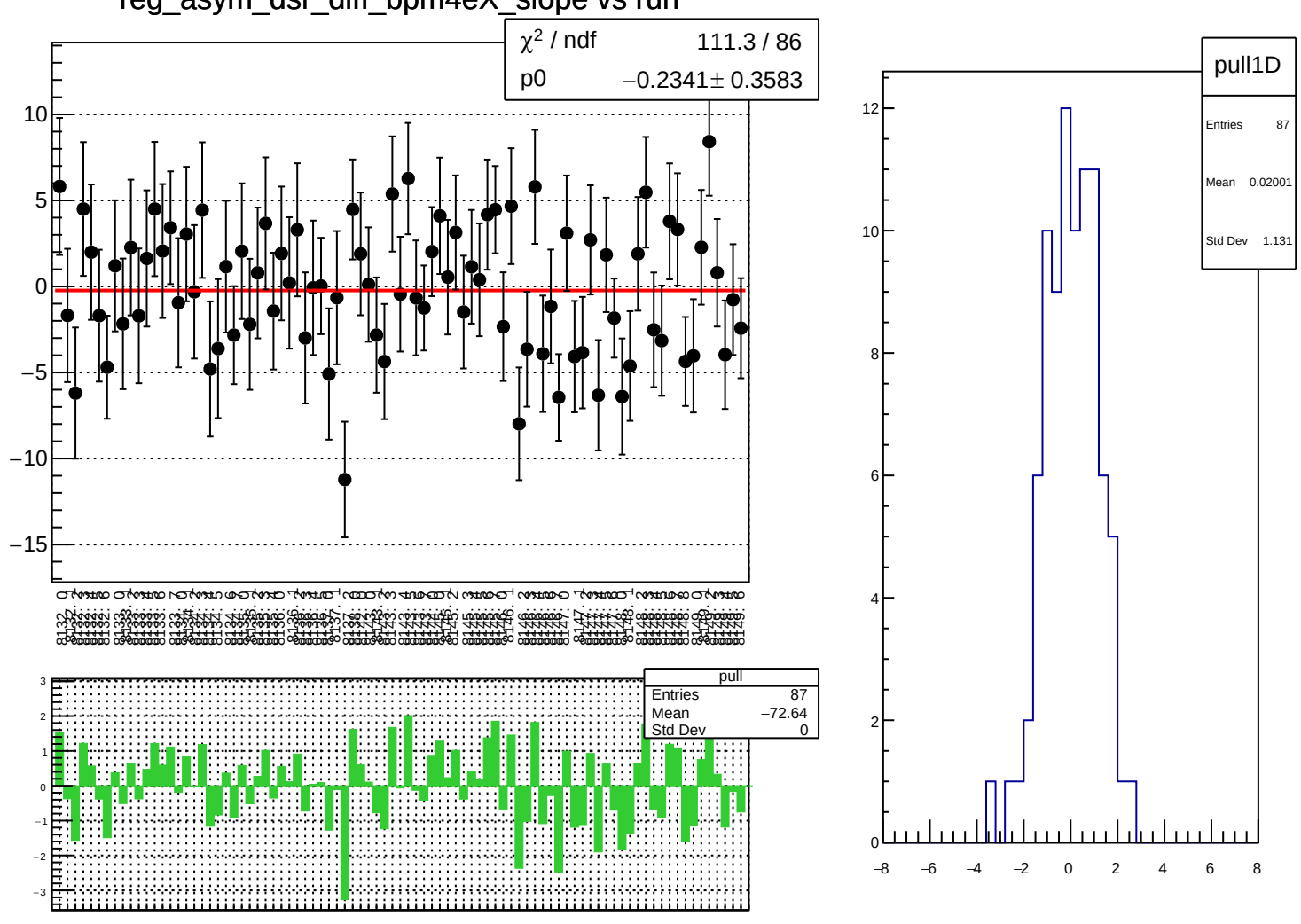

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 110.3 / 86
p0 −0.00839 ± 0.02104
pull
Entries 87
Mean 169
Std Dev 0

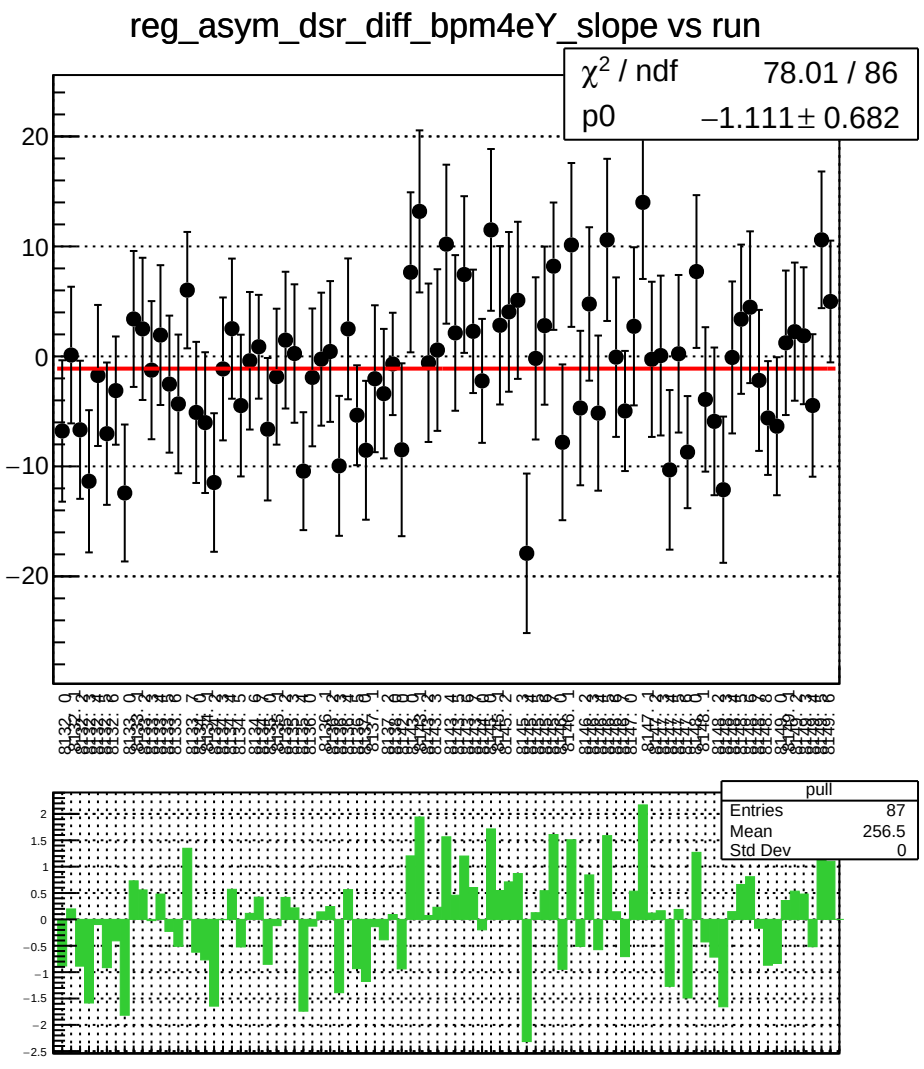

pull1D
Entries 87
Mean 0.02219
Std Dev 1.126

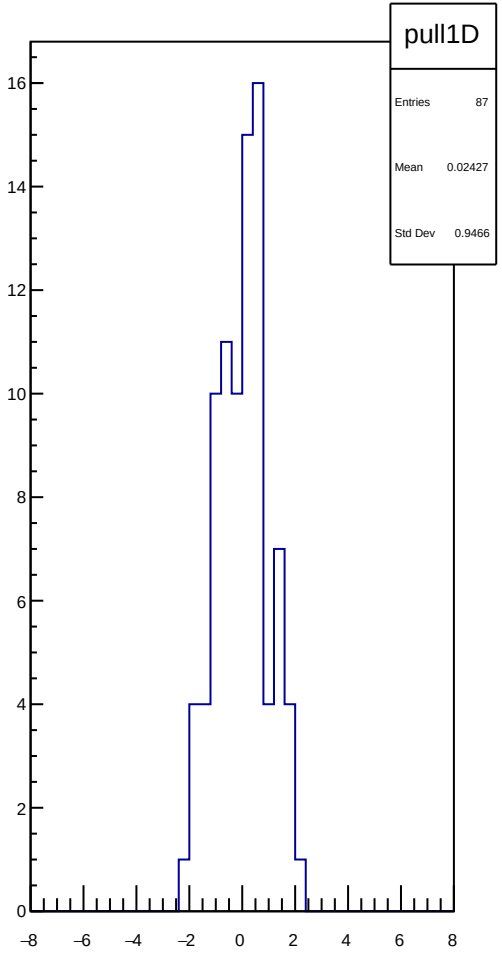

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 105.2 / 86
p0 0.2699 ± 0.3623
pull
Entries 87
Mean −71.46
Std Dev 0
pull1D
Entries 87
Mean −0.02164
Std Dev 1.1

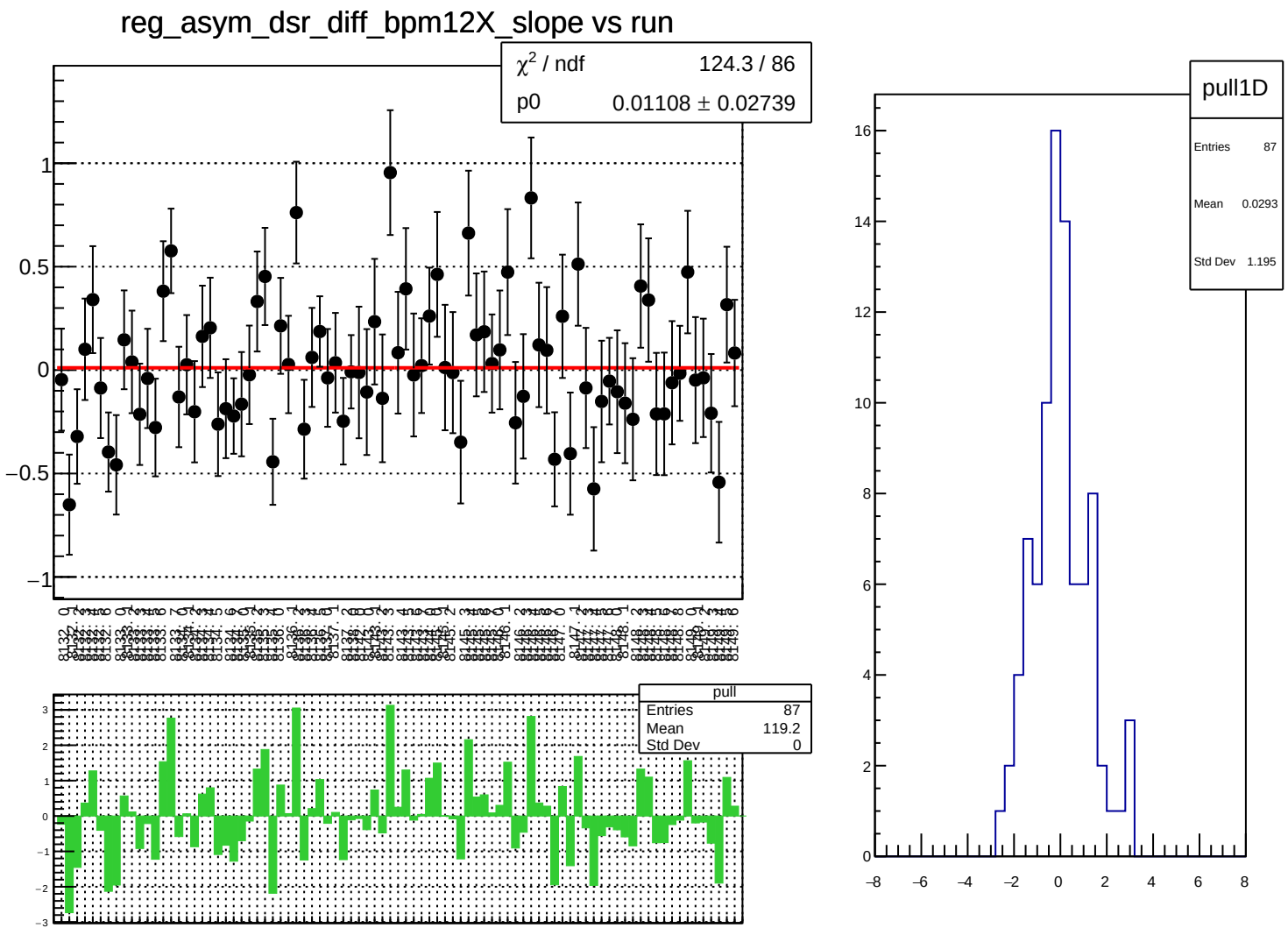

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 76.16 / 86
p0 0.9903 ± 0.6372
pull
Entries 87
Mean 242.2
Std Dev 0

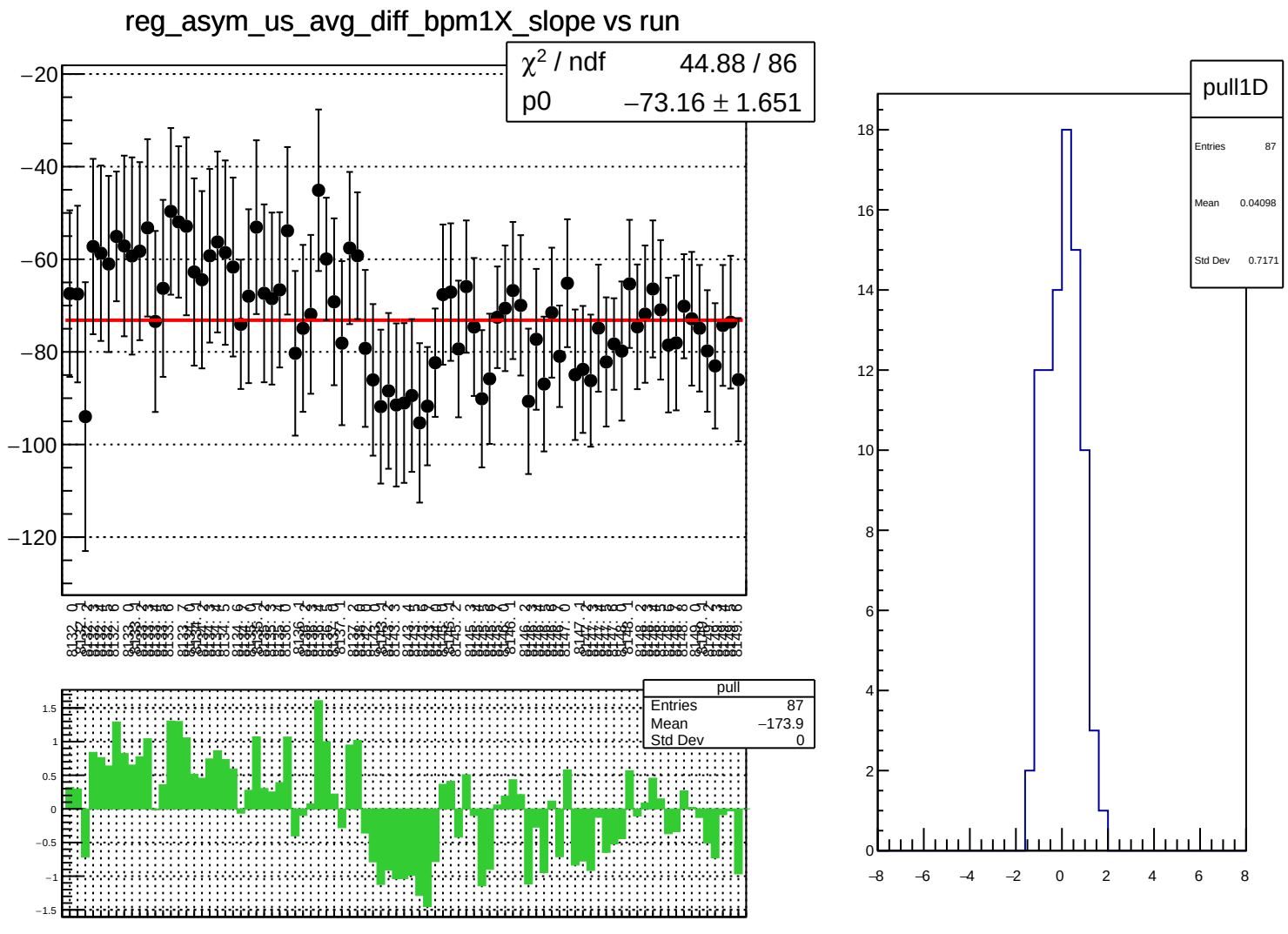

pull1D
Entries 87
Mean −0.02531
Std Dev 0.9353

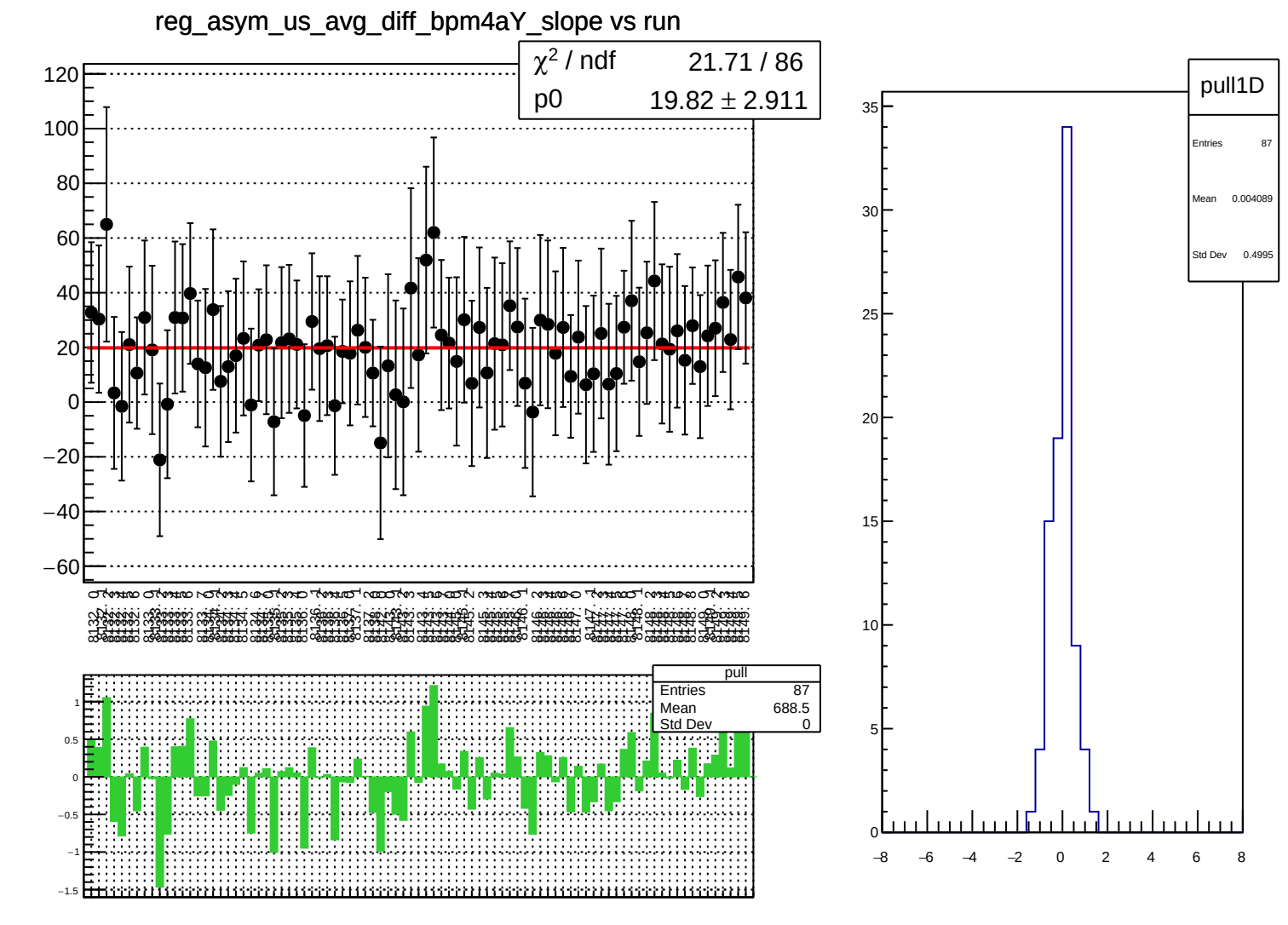

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 111.3 / 86
p0 −0.2341± 0.3583
pull
Entries 87
Mean −72.64
Std Dev 0
pull1D
Entries 87
Mean 0.02001
Std Dev 1.131

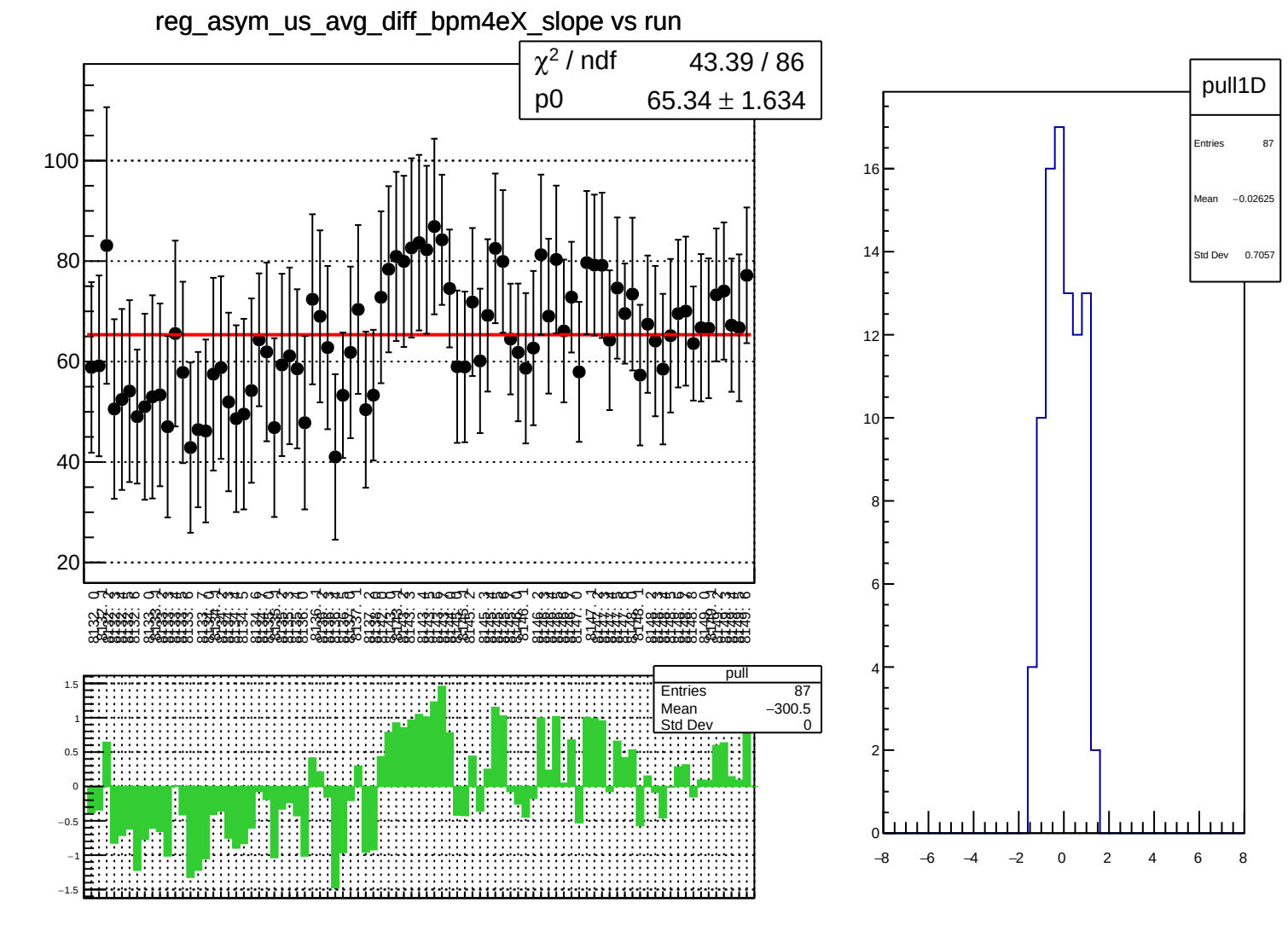

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 78.01 / 86
p0 −1.111 ± 0.682
pull
Entries 87
Mean 256.5
Std Dev 0

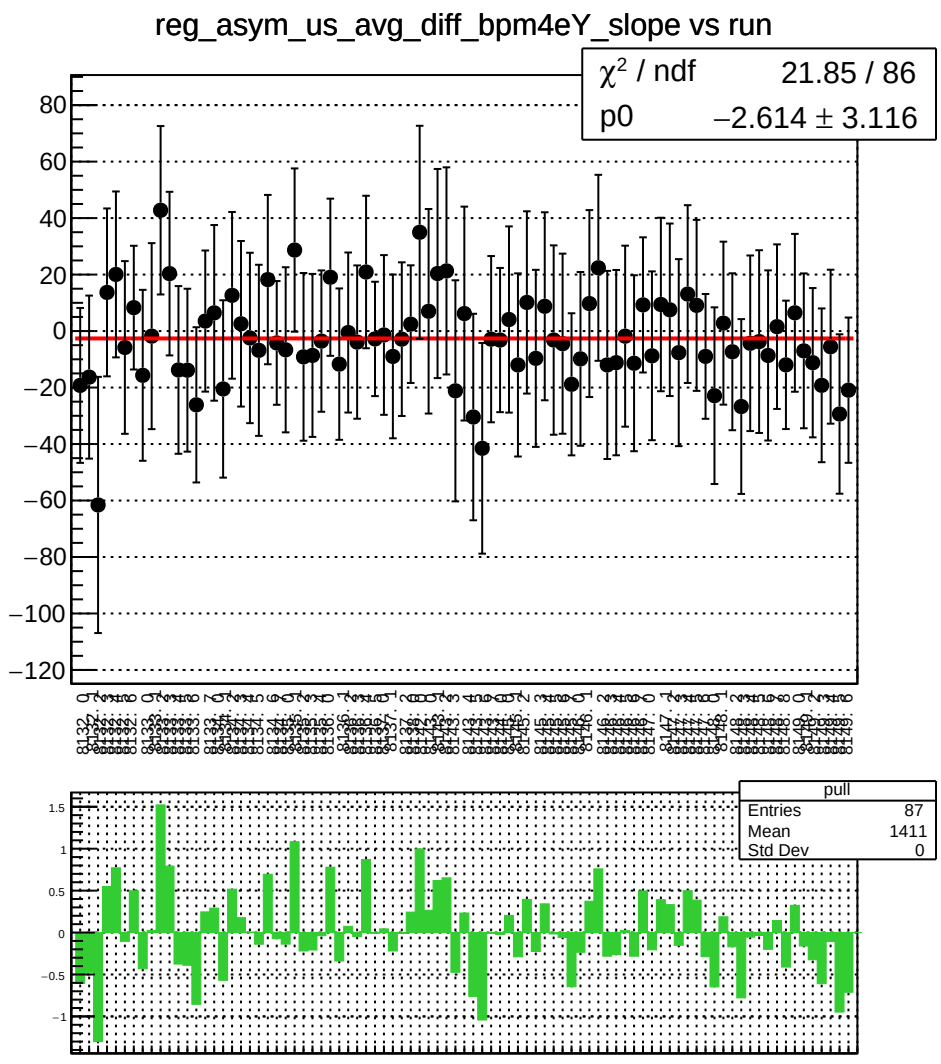

pull1D
Entries 87
Mean 0.02427
Std Dev 0.9466

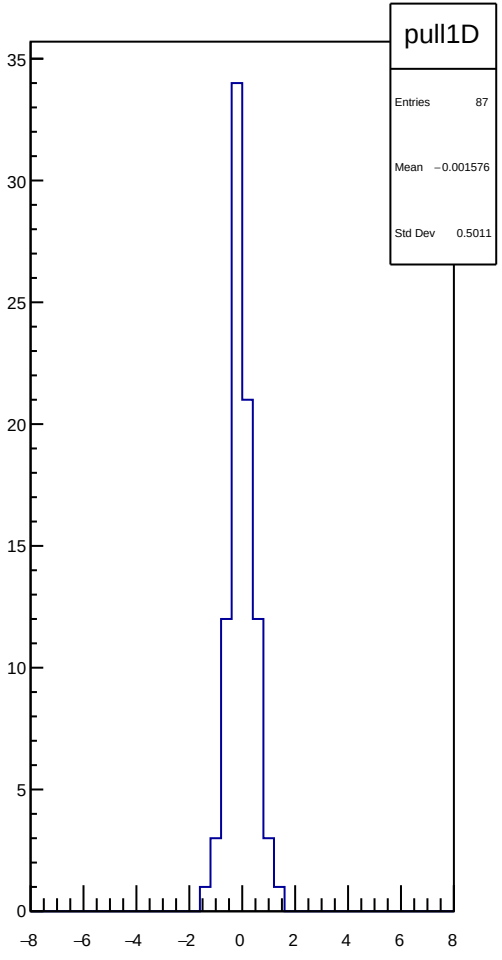

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 124.3 / 86
p0 0.01108 ± 0.02739
pull
Entries 87
Mean 119.2
Std Dev 0
pull1D
Entries 87
Mean 0.0293
Std Dev 1.195

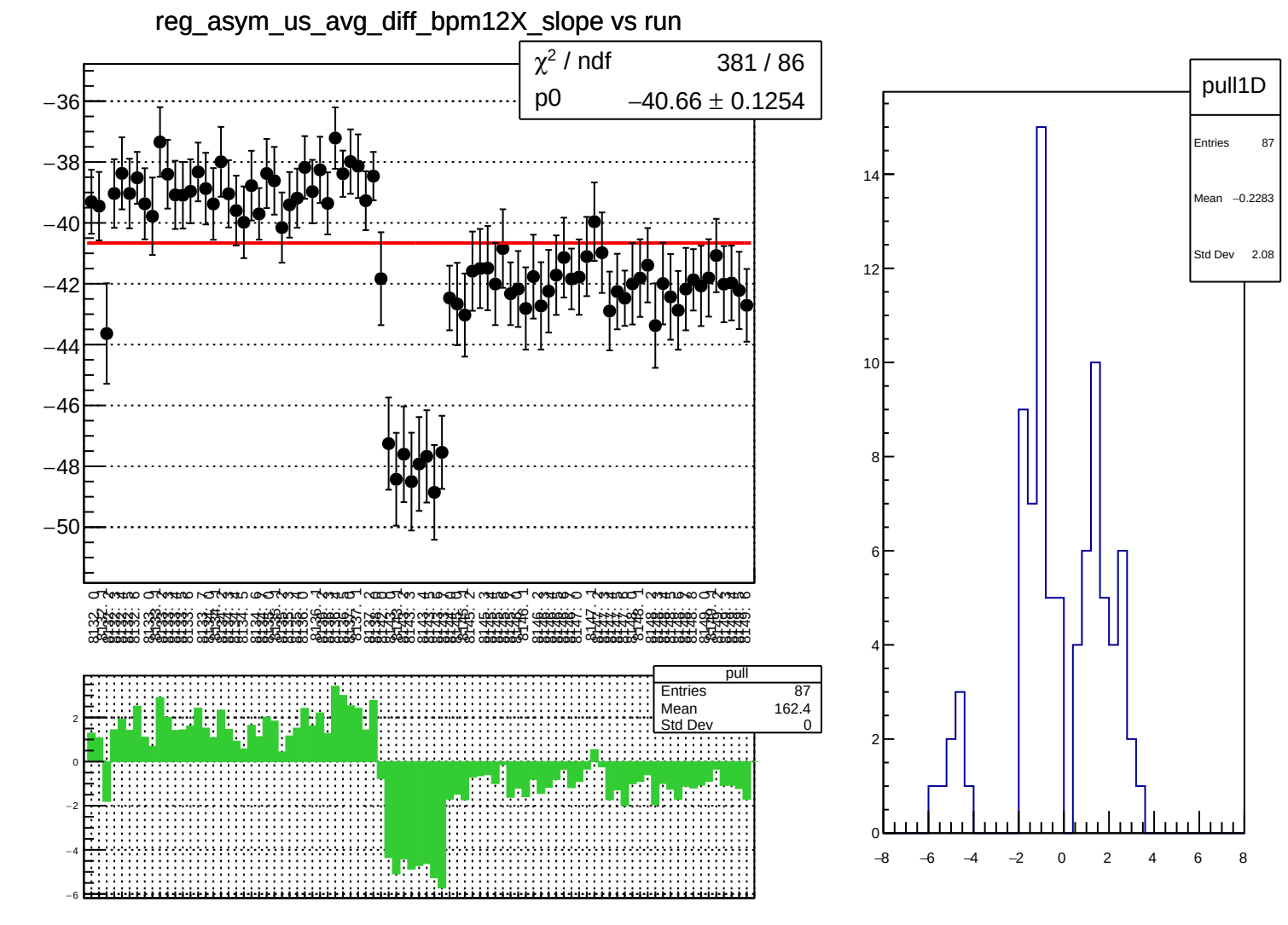

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 44.88 / 86
p0 −73.16 ± 1.651
pull
Entries 87
Mean −173.9
Std Dev 0
pull1D
Entries 87
Mean 0.04098
Std Dev 0.7171

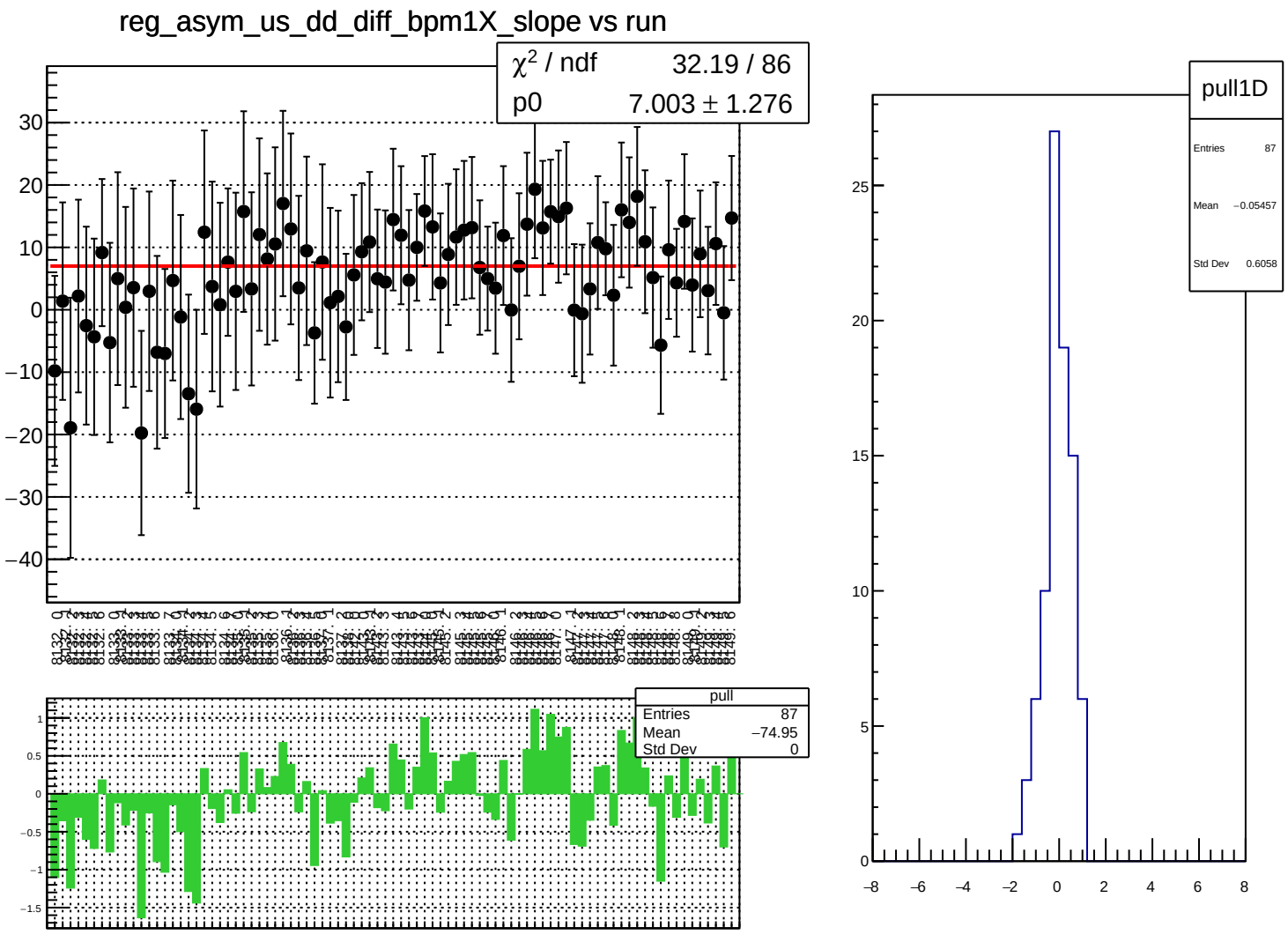

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 21.71 / 86
p0 19.82 ± 2.911
pull
Entries 87
Mean 688.5
Std Dev 0
pull1D
Entries 87
Mean 0.004089
Std Dev 0.4995

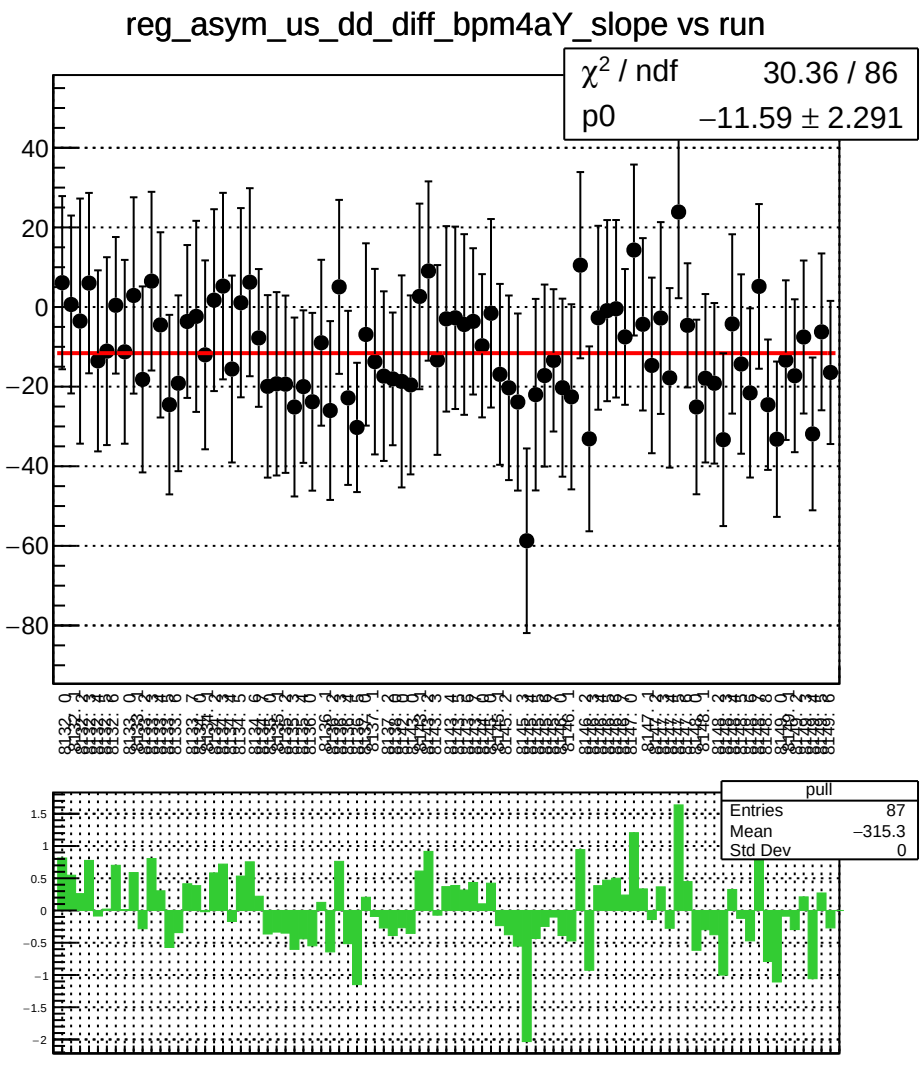

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 43.39 / 86
p0 65.34 ± 1.634
pull
Entries 87
Mean −300.5
Std Dev 0
pull1D
Entries 87
Mean −0.02625
Std Dev 0.7057

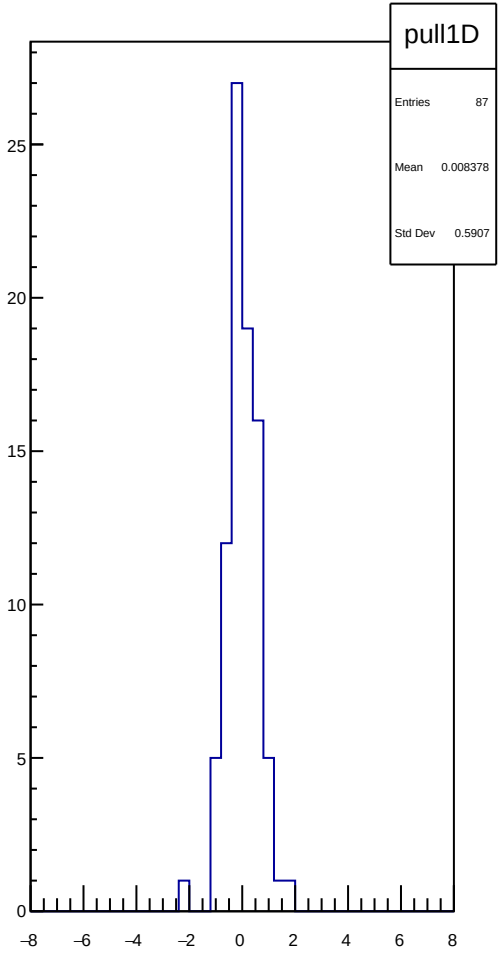

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 21.85 / 86
p0 −2.614 ± 3.116
pull
Entries 87
Mean 1411
Std Dev 0

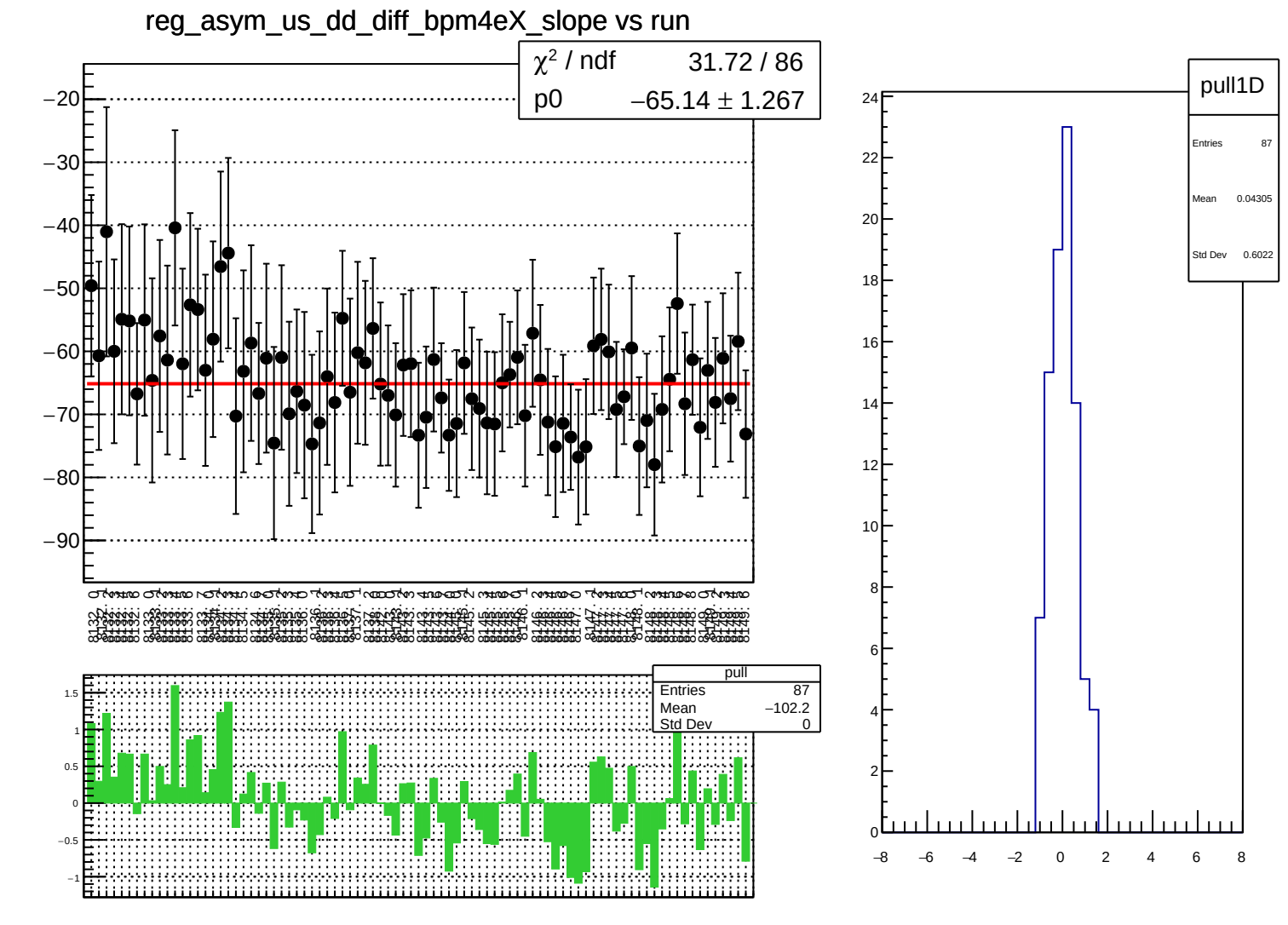

pull1D
Entries 87
Mean −0.001576
Std Dev 0.5011

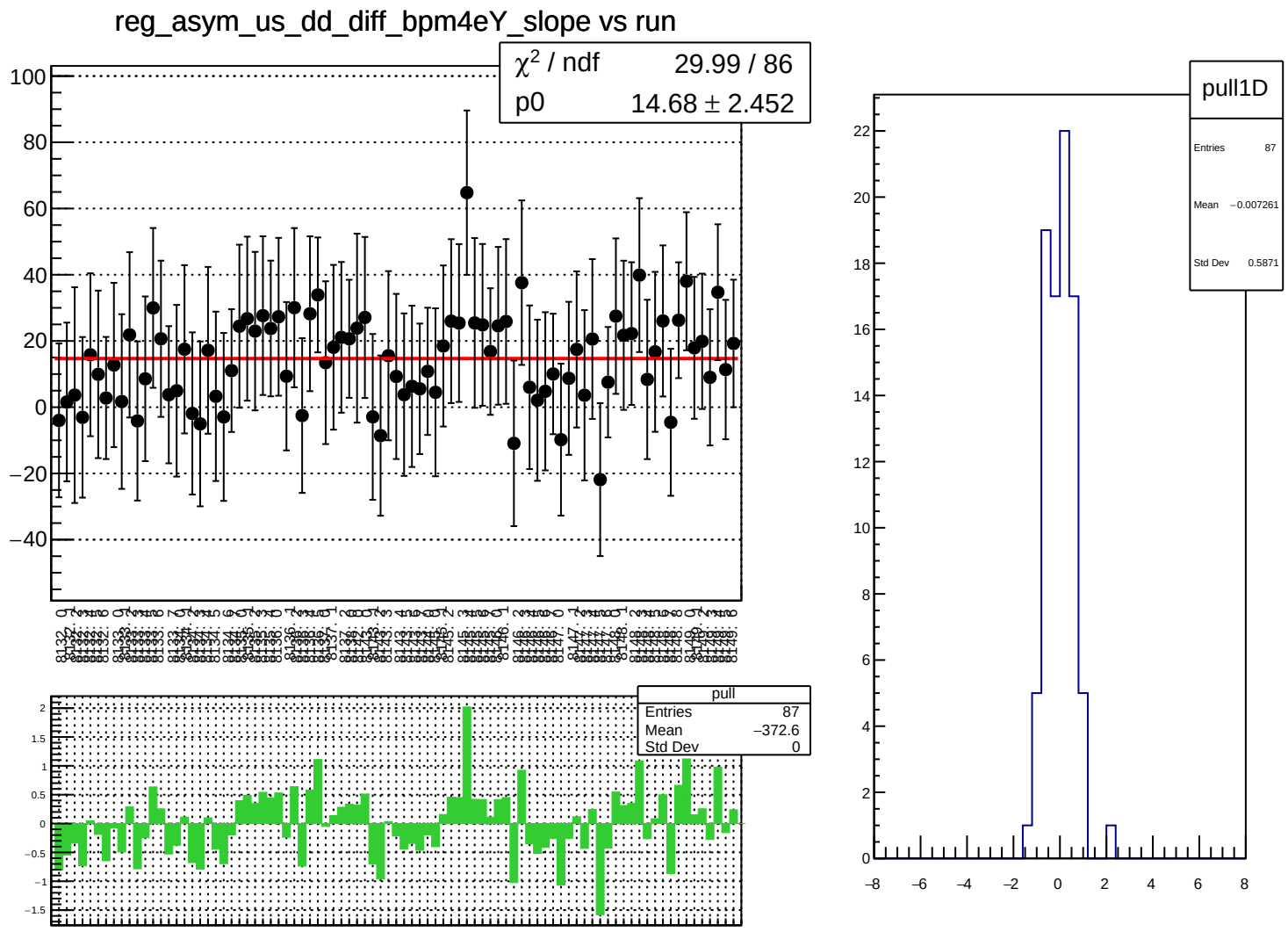

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 381 / 86
p0 −40.66 ± 0.1254
pull
Entries 87
Mean 162.4
Std Dev 0
pull1D
Entries 87
Mean −0.2283
Std Dev 2.08

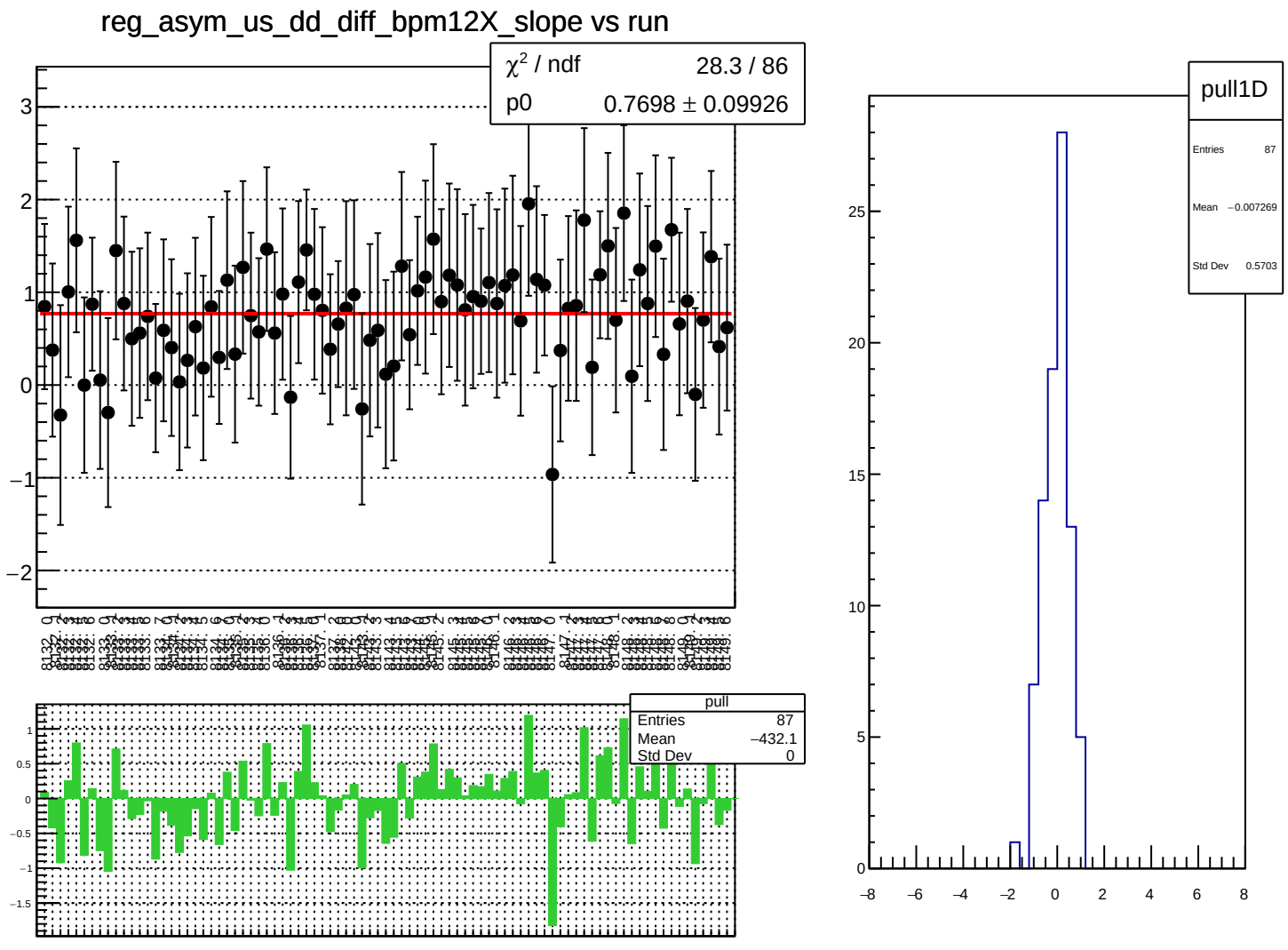

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 32.19 / 86
p0 7.003 ± 1.276
pull
Entries 87
Mean −74.95
Std Dev 0
pull1D
Entries 87
Mean −0.05457
Std Dev 0.6058

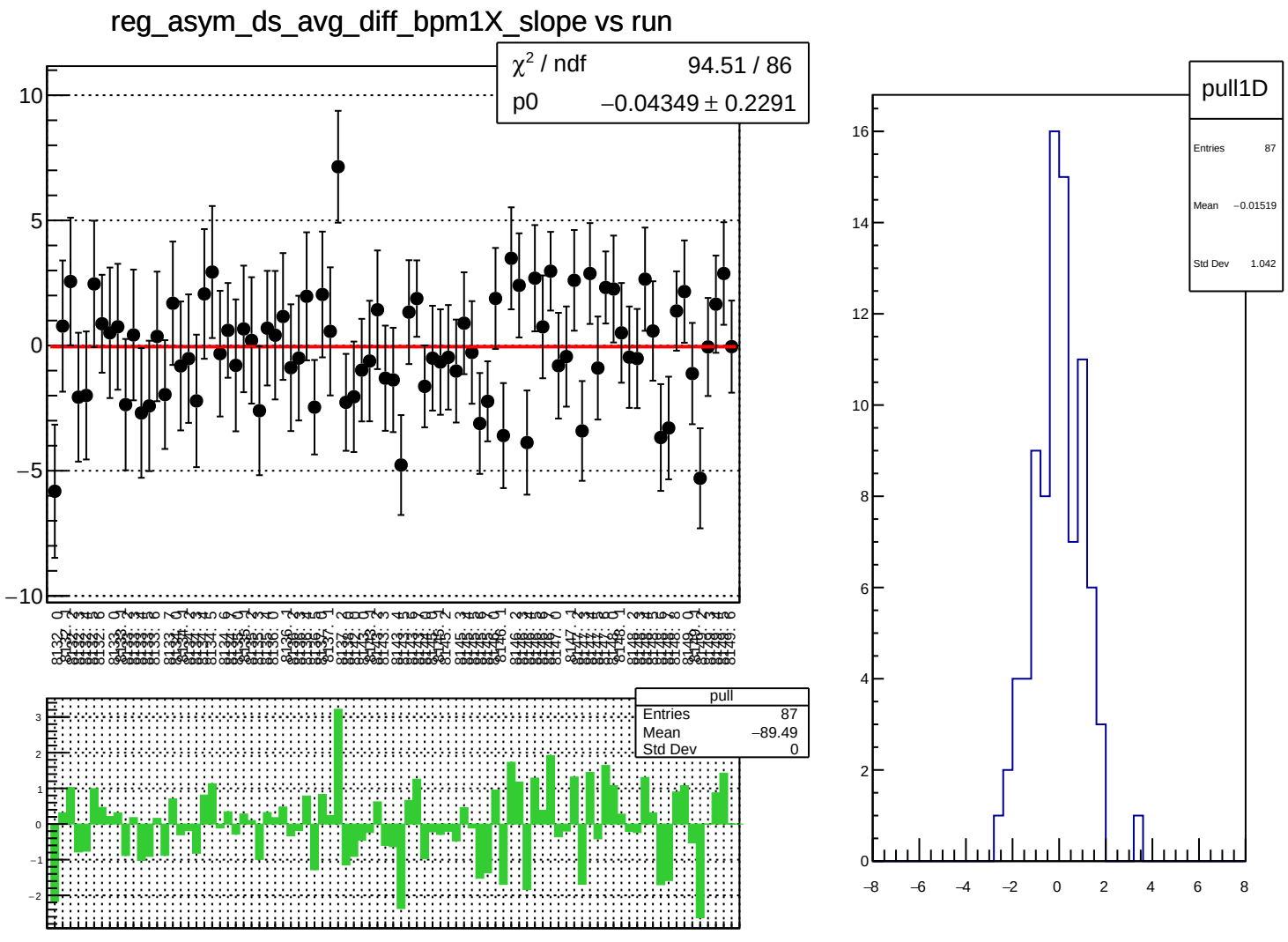

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 30.36 / 86
p0 −11.59 ± 2.291
pull
Entries 87
Mean −315.3
Std Dev 0

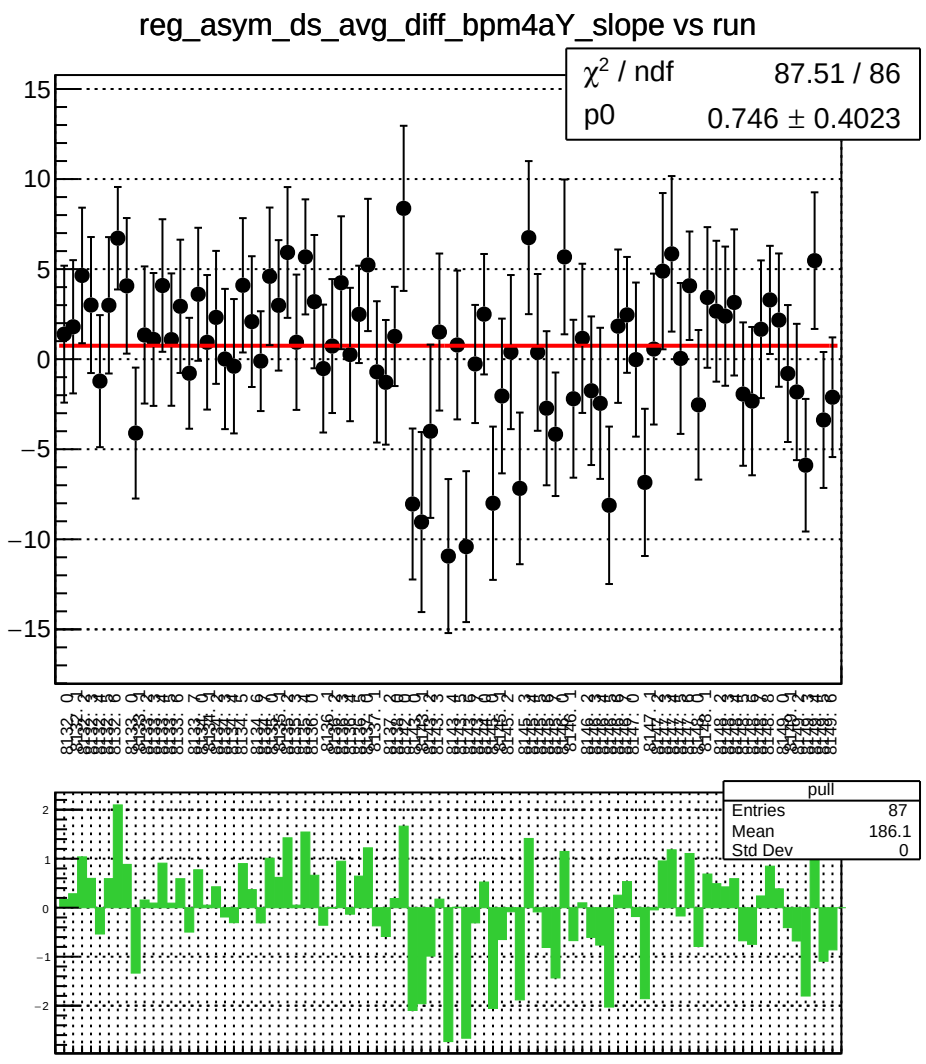

pull1D
Entries 87
Mean 0.008378
Std Dev 0.5907

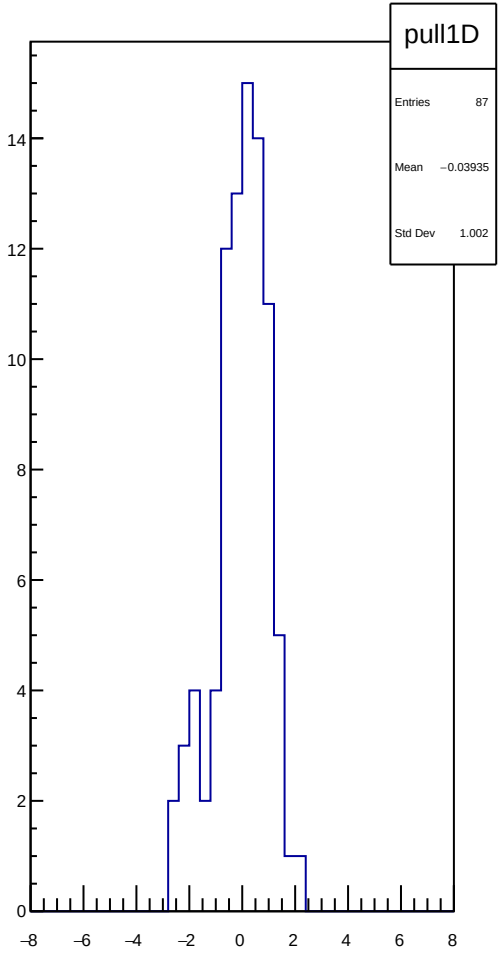

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 31.72 / 86
p0 −65.14 ± 1.267
pull
Entries 87
Mean −102.2
Std Dev 0
pull1D
Entries 87
Mean 0.04305
Std Dev 0.6022

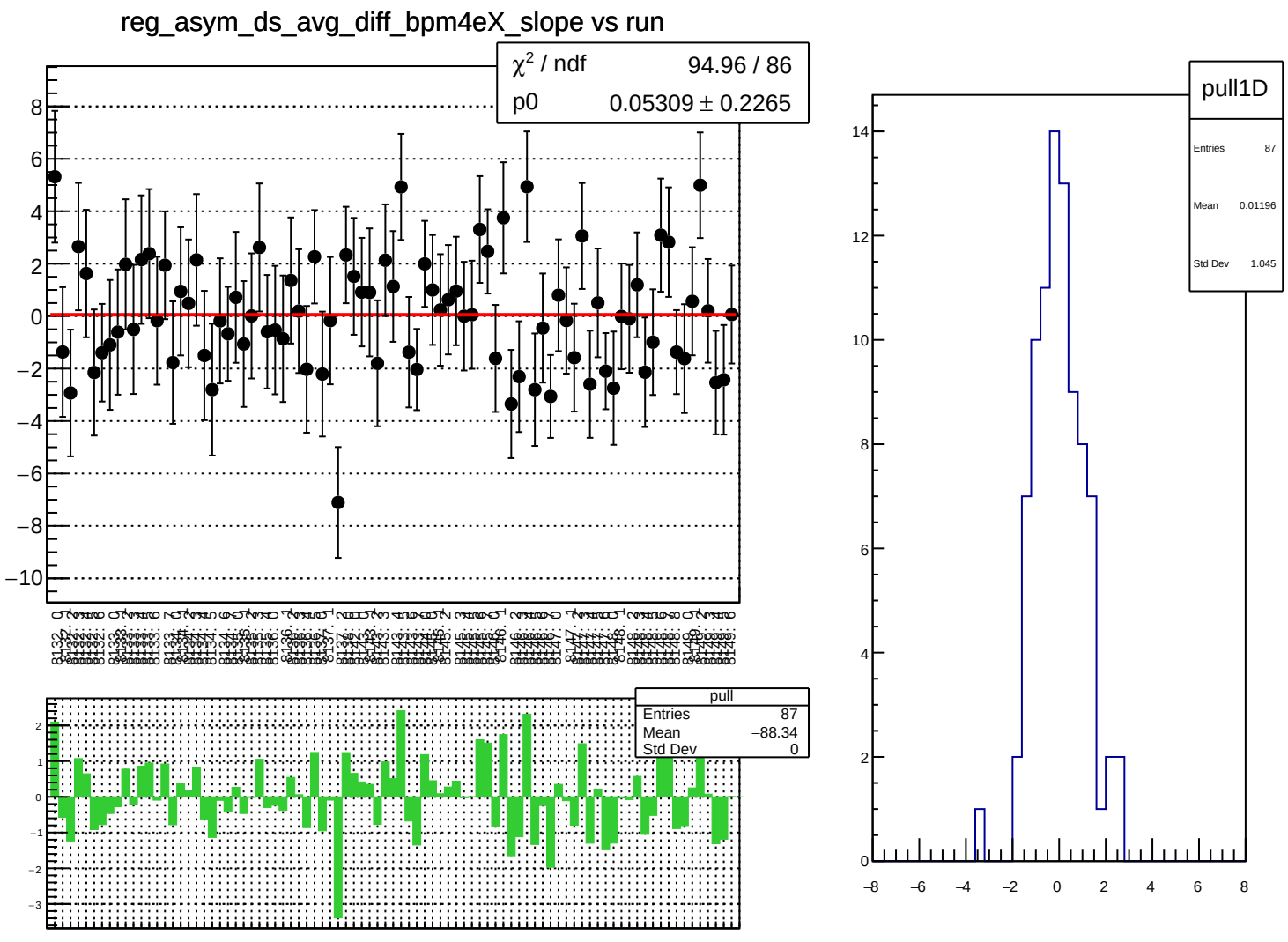

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 29.99 / 86
p0 14.68 ± 2.452
pull
Entries 87
Mean −372.6
Std Dev 0
pull1D
Entries 87
Mean −0.007261
Std Dev 0.5871

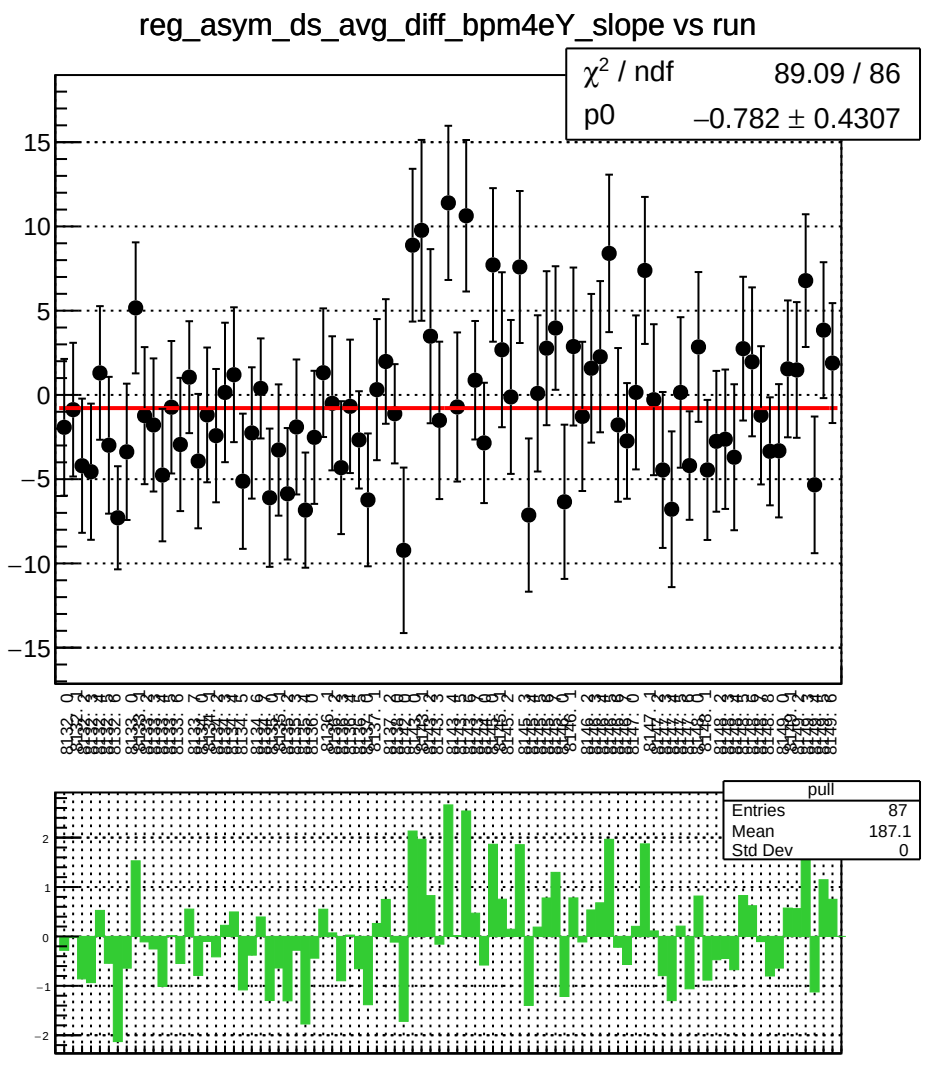

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 28.3 / 86
p0 0.7698 ± 0.09926
pull
Entries 87
Mean −432.1
Std Dev 0
pull1D
Entries 87
Mean −0.007269
Std Dev 0.5703

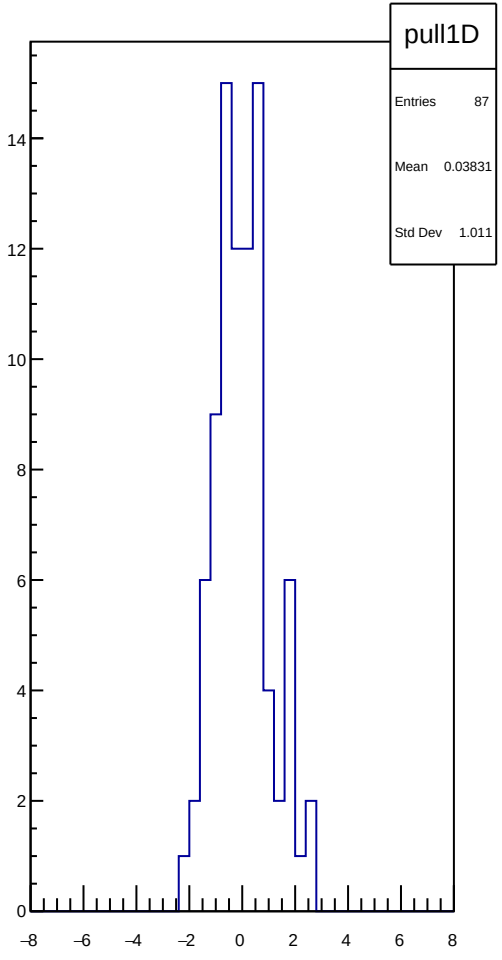

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 94.51 / 86
p0 −0.04349 ± 0.2291
pull
Entries 87
Mean −89.49
Std Dev 0
pull1D
Entries 87
Mean −0.01519
Std Dev 1.042

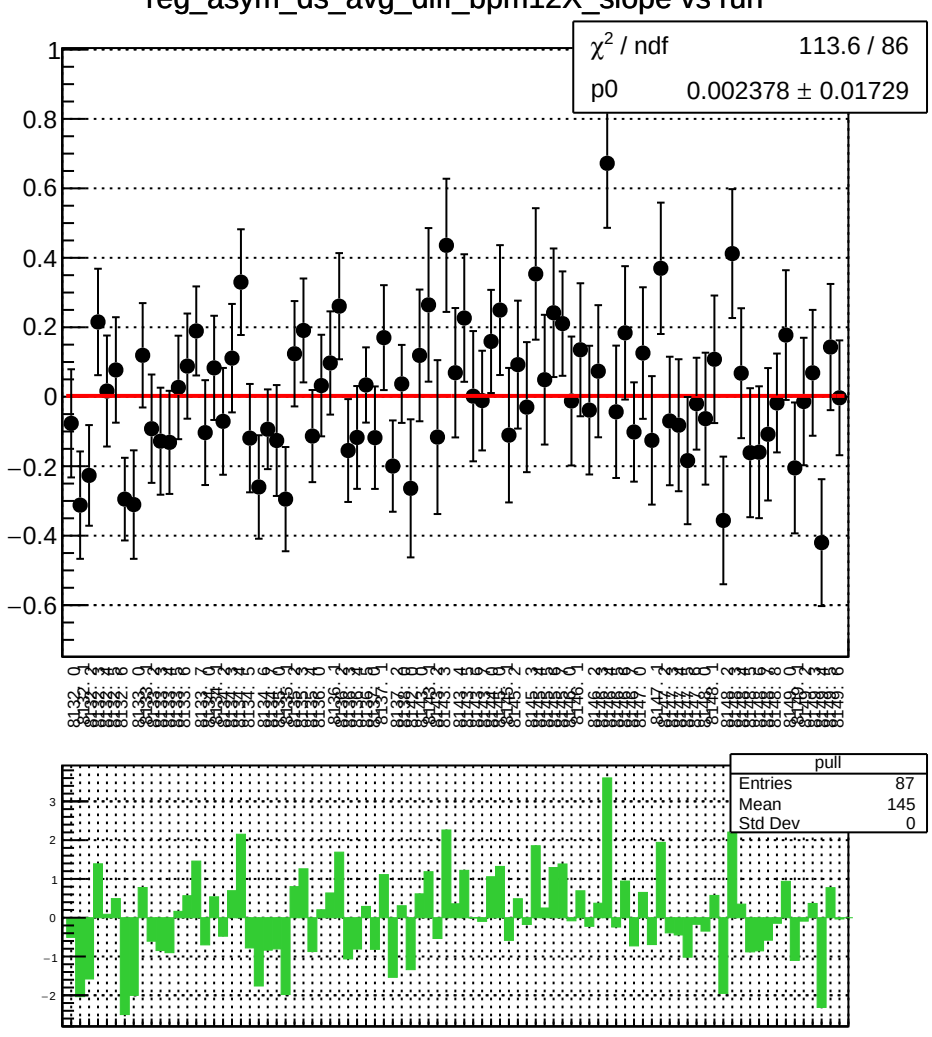

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 87.51 / 86
p0 0.746 ± 0.4023
pull
Entries 87
Mean 186.1
Std Dev 0

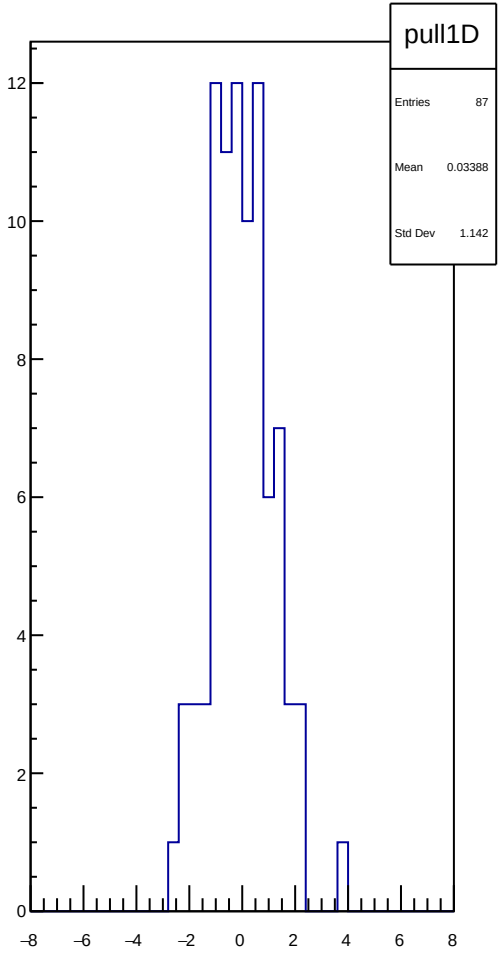

pull1D
Entries 87
Mean −0.03935
Std Dev 1.002

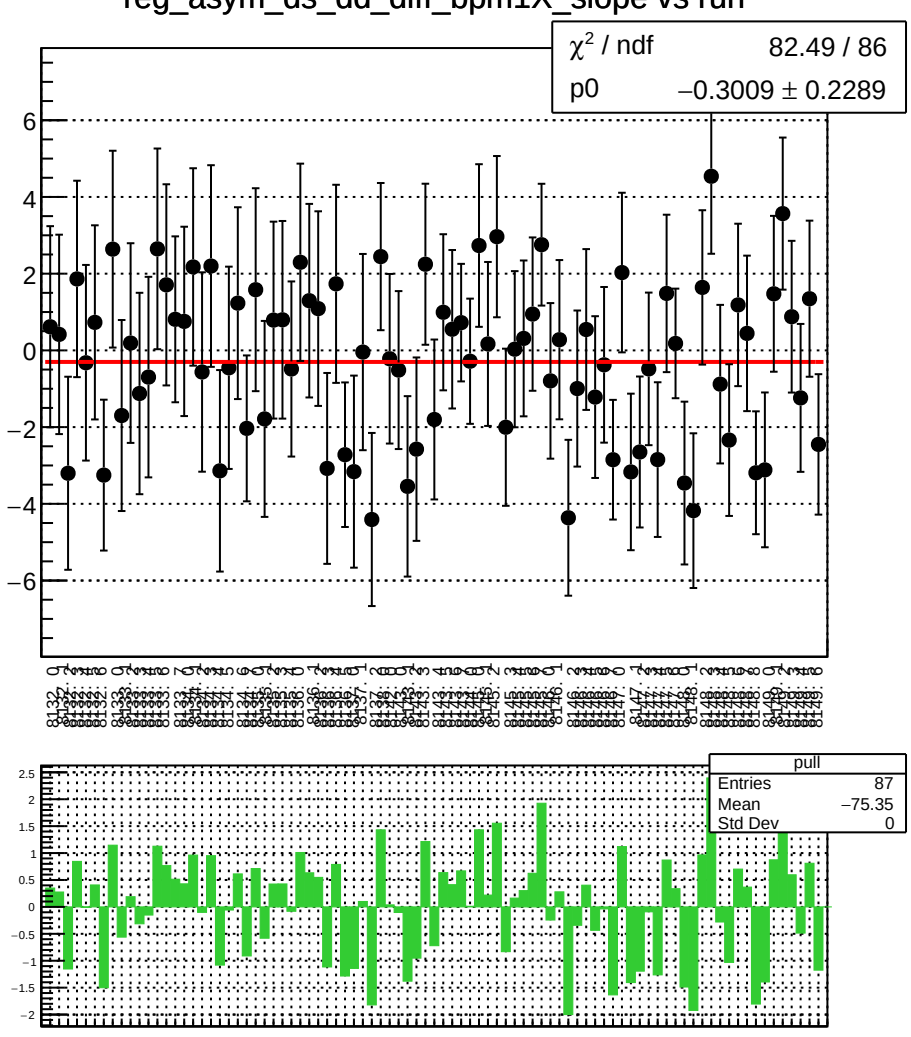

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 94.96 / 86
p0 0.05309 ± 0.2265
pull
Entries 87
Mean −88.34
Std Dev 0
pull1D
Entries 87
Mean 0.01196
Std Dev 1.045

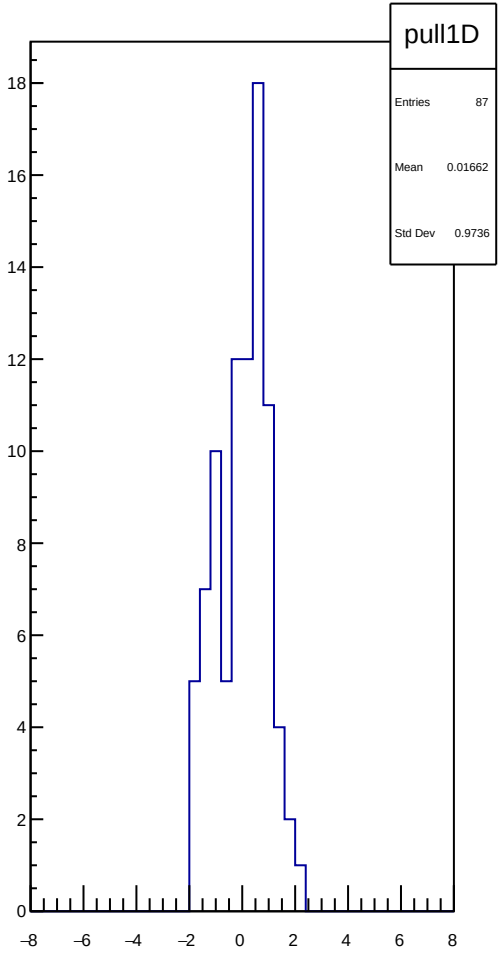

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 89.09 / 86
p0 −0.782 ± 0.4307
pull
Entries 87
Mean 187.1
Std Dev 0

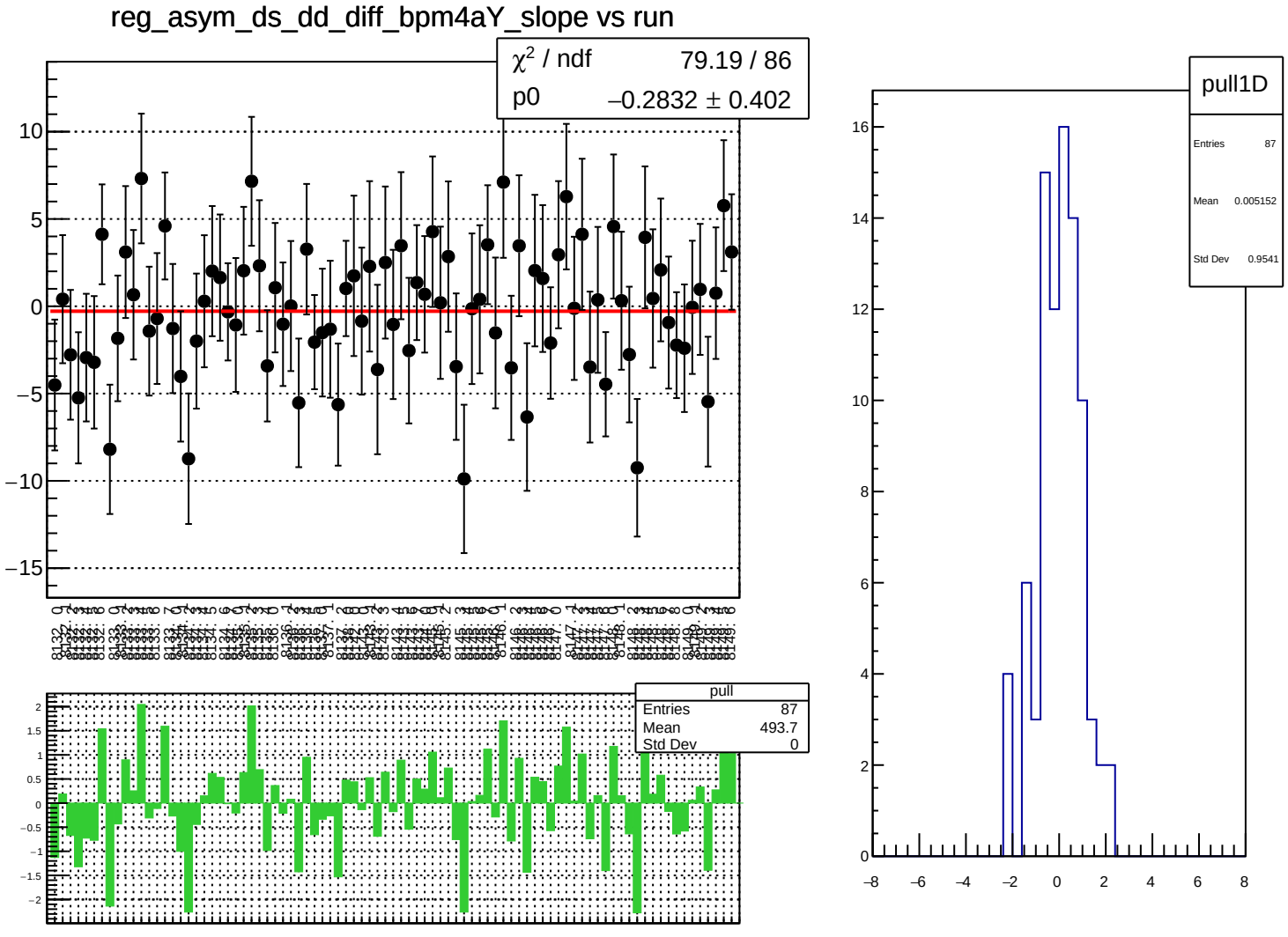

pull1D
Entries 87
Mean 0.03831
Std Dev 1.011

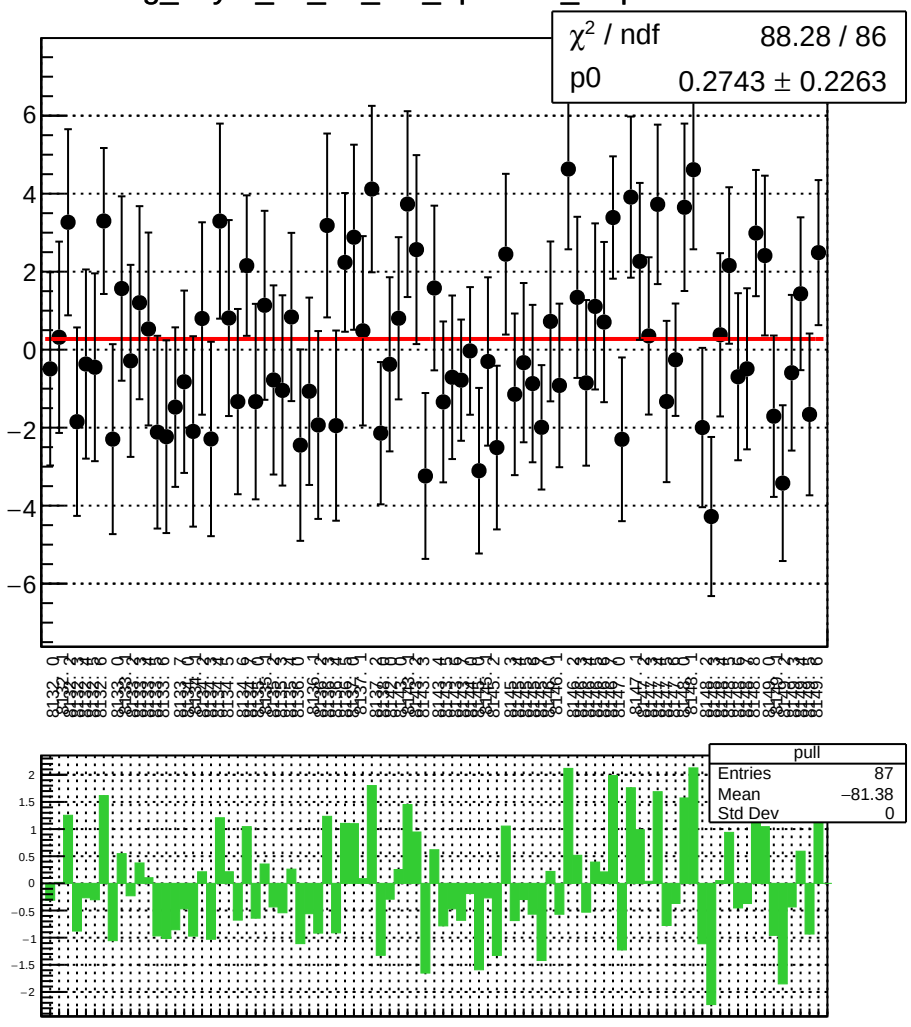

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 113.6 / 86
p0 0.002378 ± 0.01729
pull
Entries 87
Mean 145
Std Dev 0

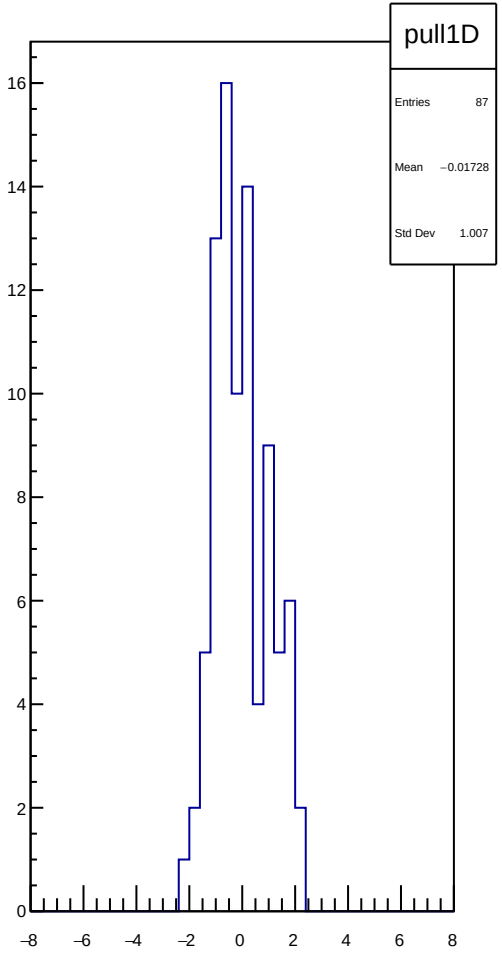

pull1D
Entries 87
Mean 0.03388
Std Dev 1.142

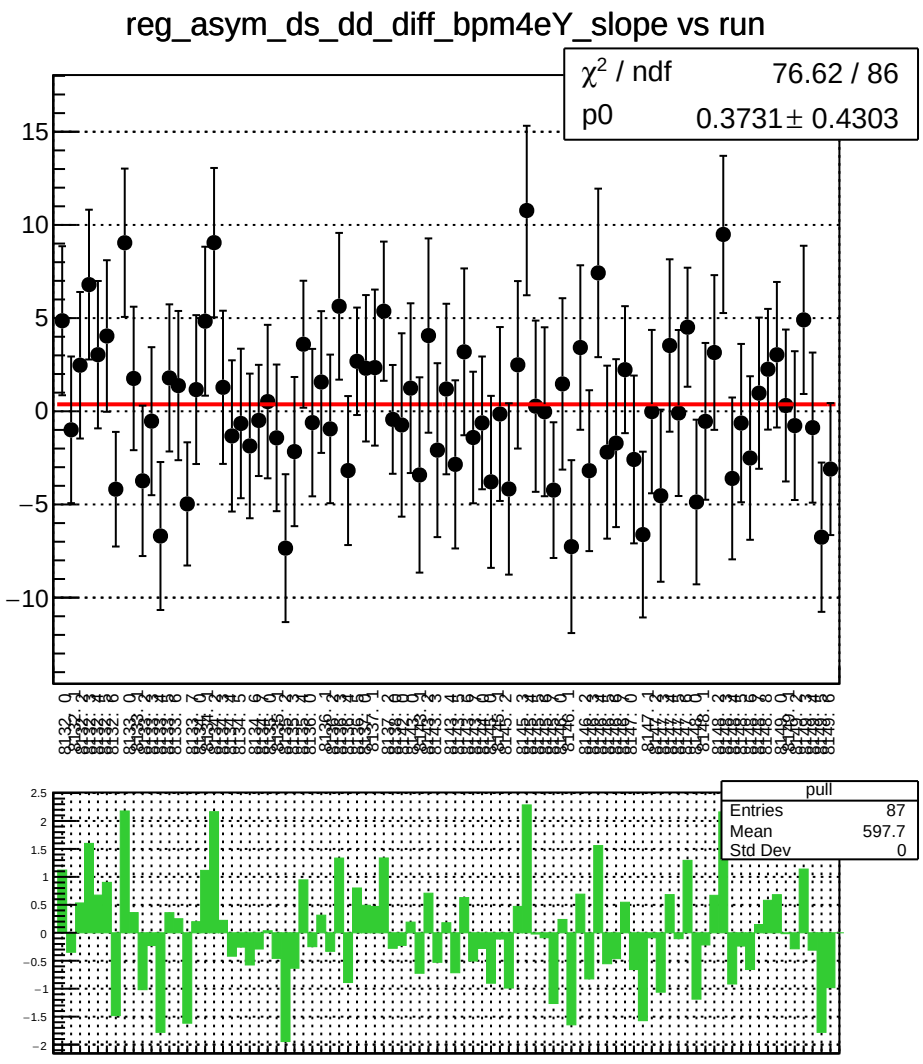

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 82.49 / 86
p0 −0.3009 ± 0.2289
pull
Entries 87
Mean −75.35
Std Dev 0

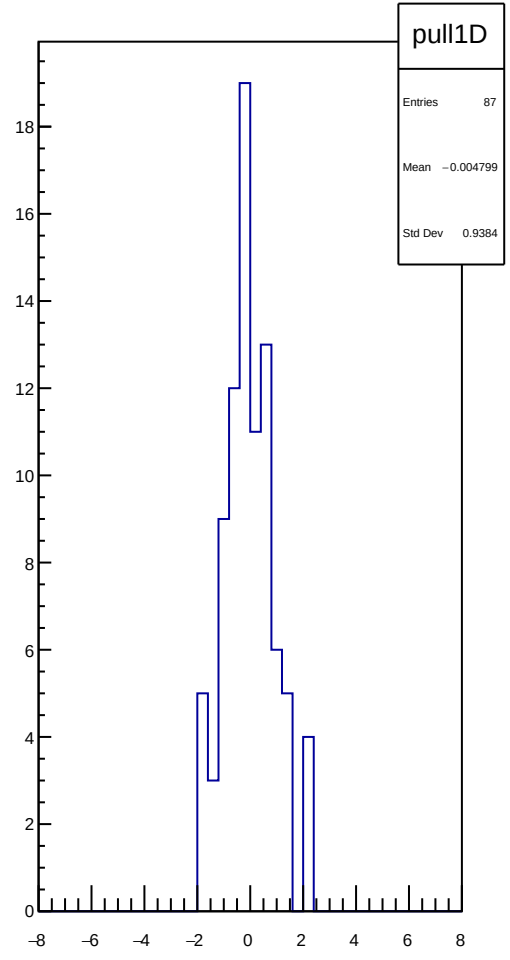

pull1D
Entries 87
Mean 0.01662
Std Dev 0.9736

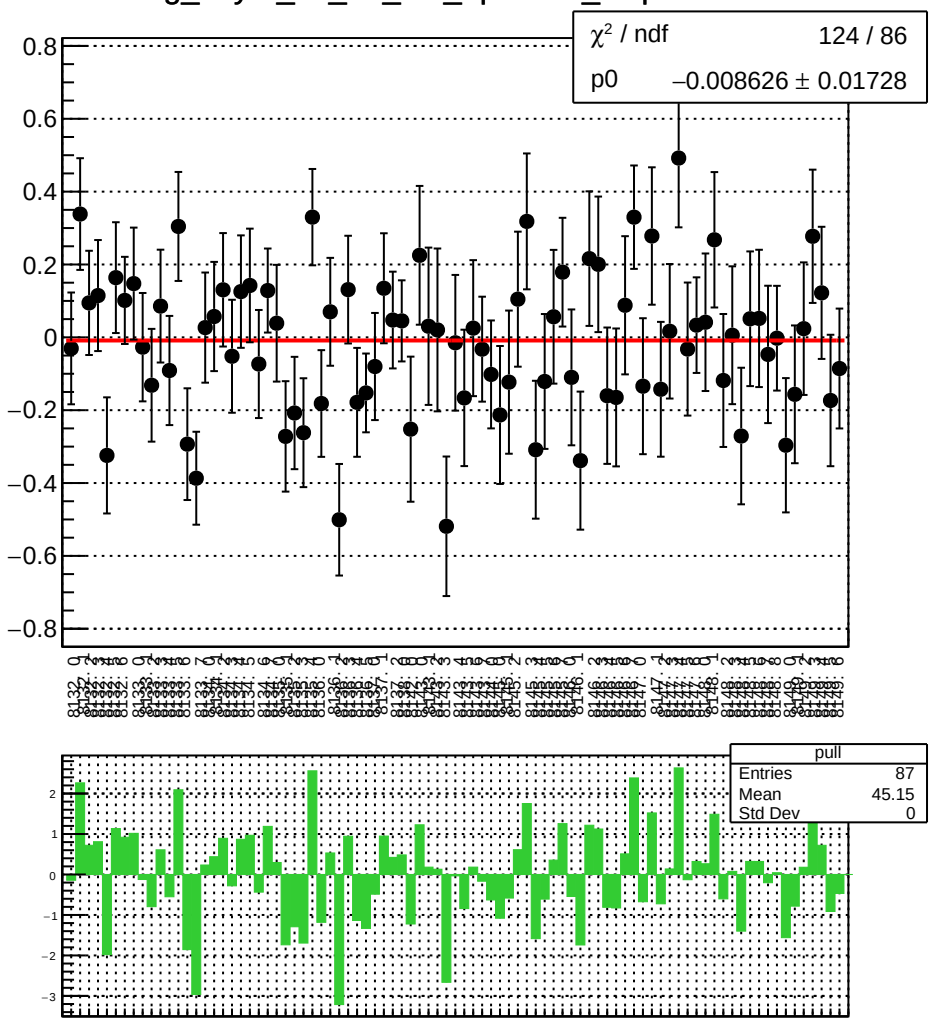

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 79.19 / 86
p0 −0.2832 ± 0.402
pull
Entries 87
Mean 493.7
Std Dev 0
pull1D
Entries 87
Mean 0.005152
Std Dev 0.9541

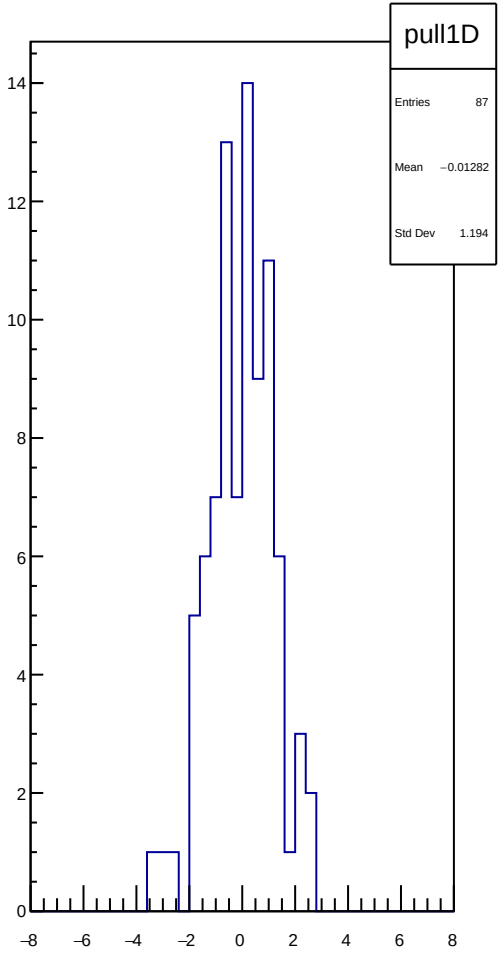

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 88.28 / 86
p0 0.2743 ± 0.2263
pull
Entries 87
Mean −81.38
Std Dev 0

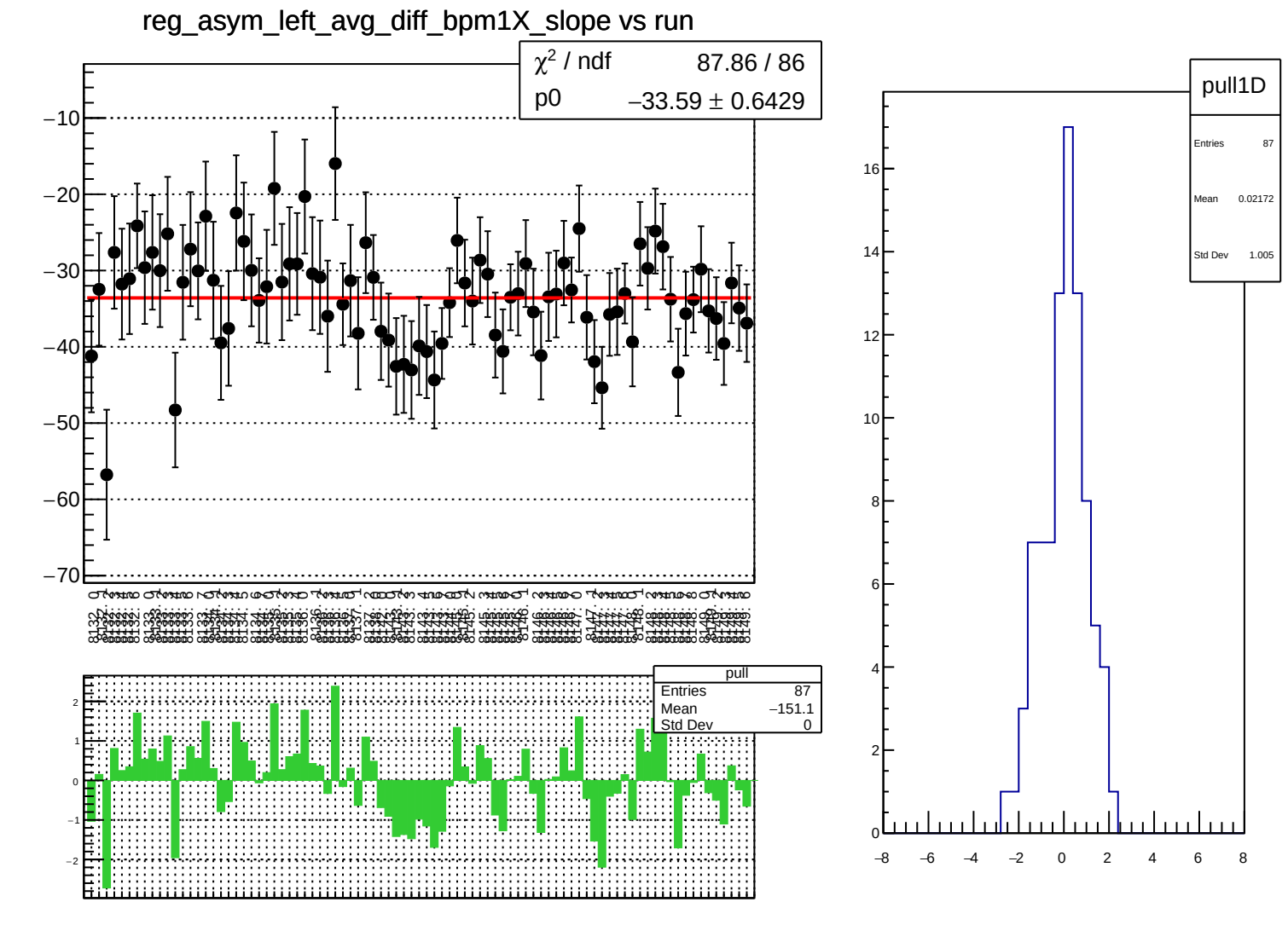

pull1D
Entries 87
Mean −0.01728
Std Dev 1.007

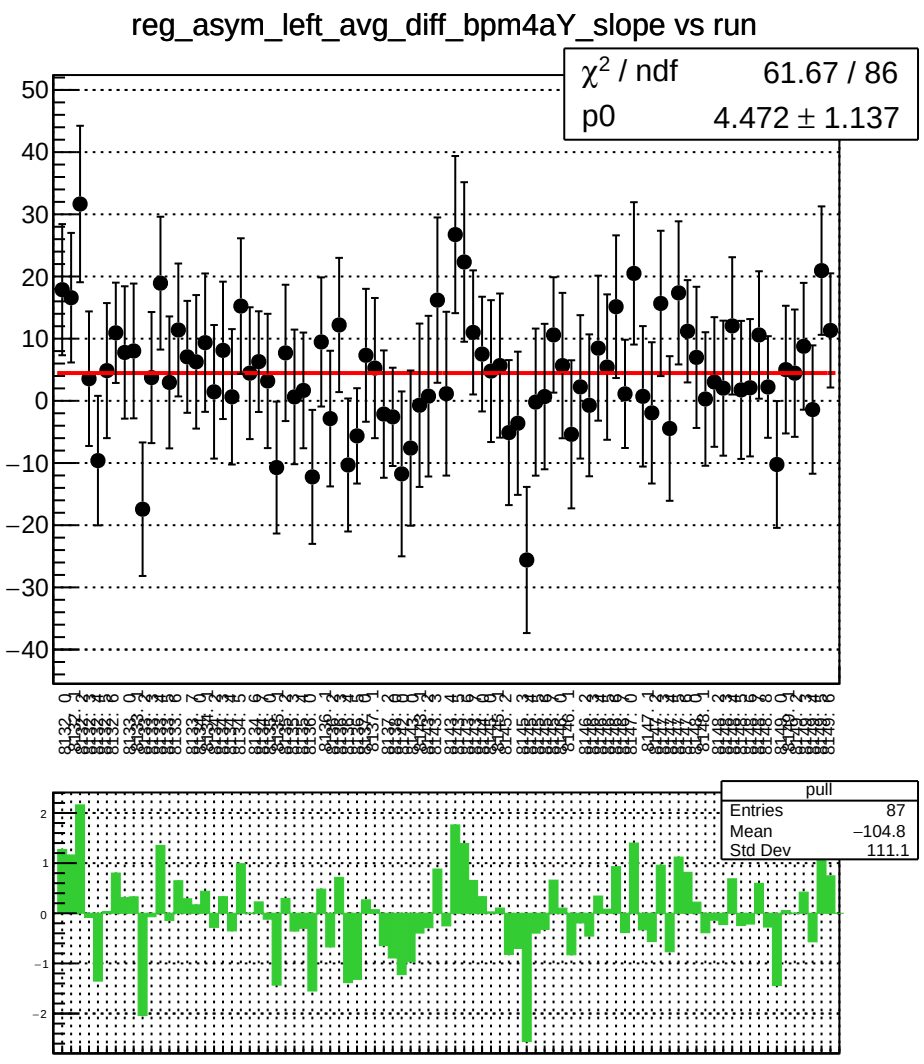

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 76.62 / 86
p0 0.3731 ± 0.4303
pull
Entries 87
Mean 597.7
Std Dev 0

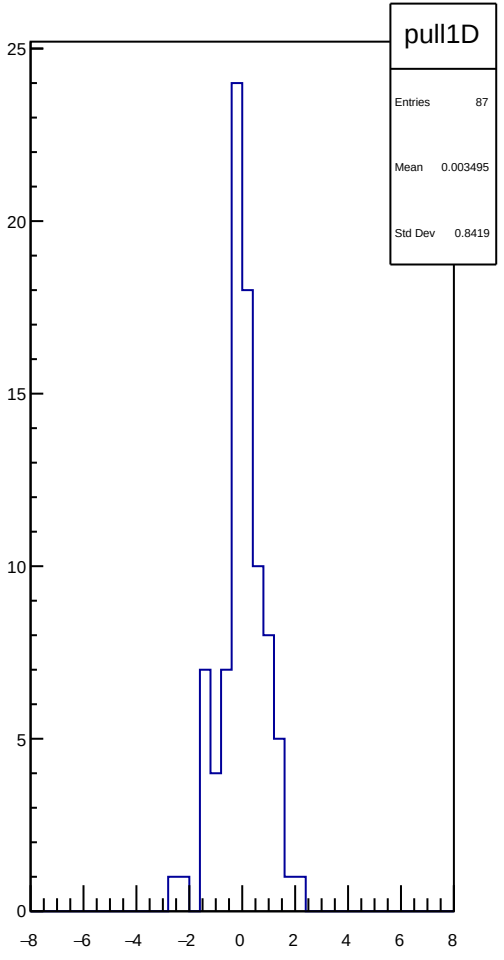

pull1D
Entries 87
Mean −0.004799
Std Dev 0.9384

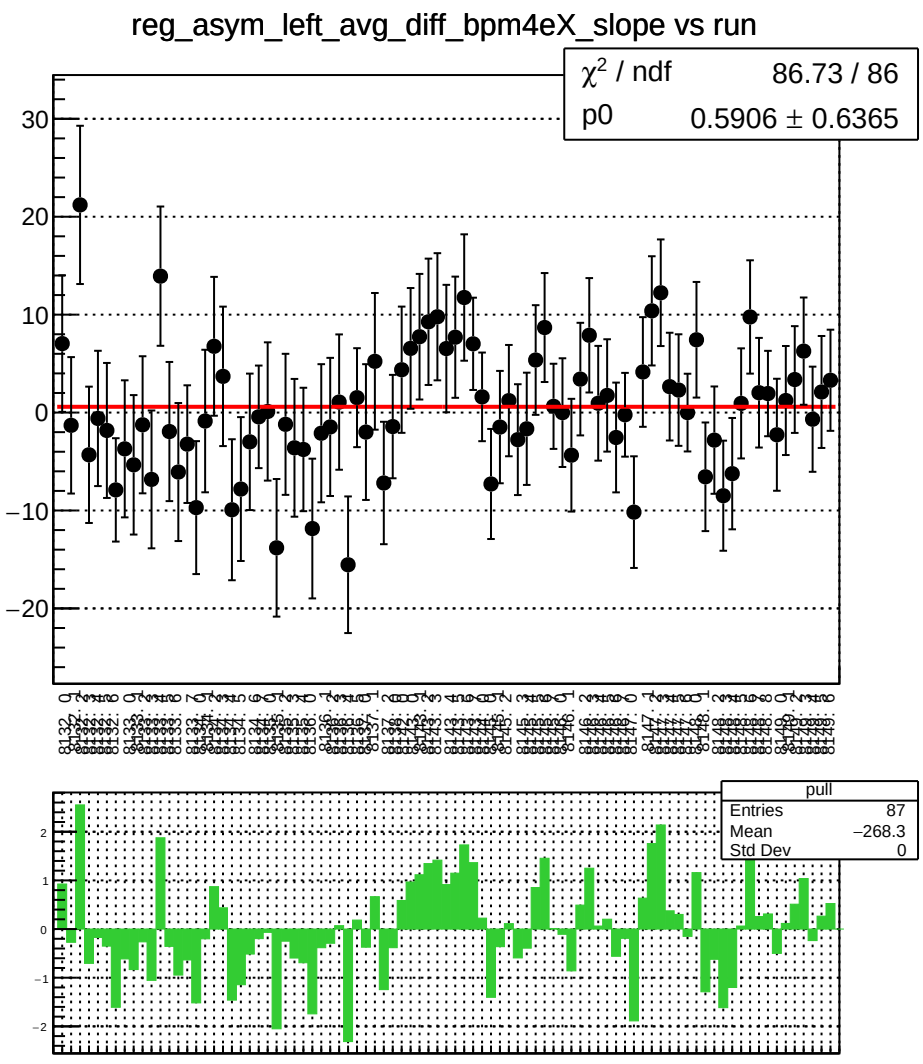

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 124 / 86
p0 −0.008626 ± 0.01728
pull
Entries 87
Mean 45.15
Std Dev 0

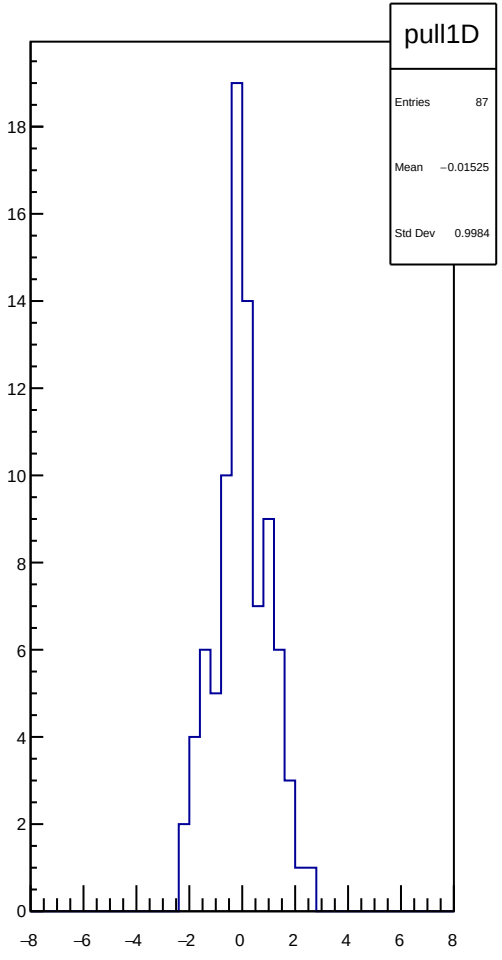

pull1D
Entries 87
Mean −0.01282
Std Dev 1.194

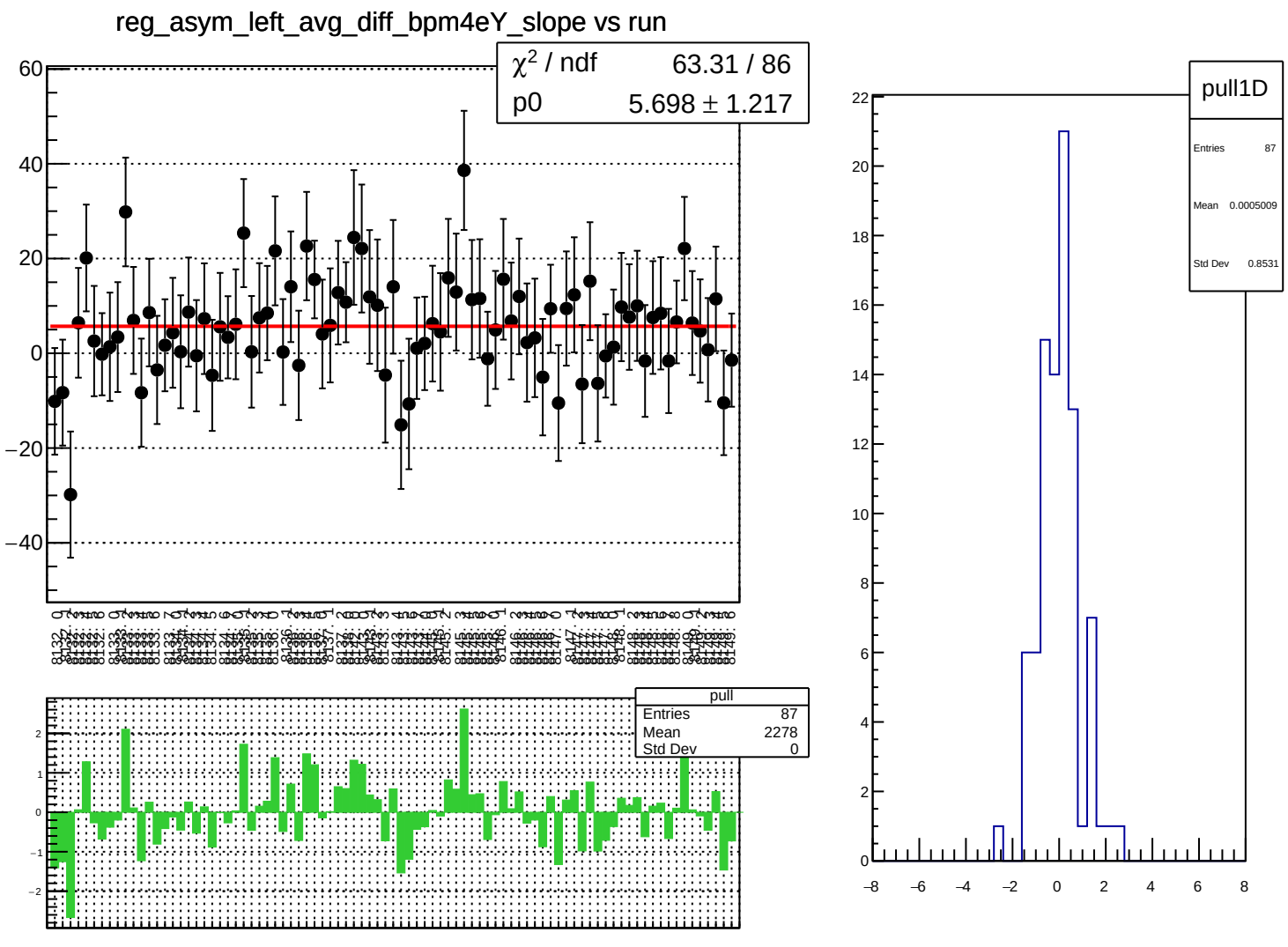

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 87.86 / 86
p0 −33.59 ± 0.6429
pull
Entries 87
Mean −151.1
Std Dev 0
pull1D
Entries 87
Mean 0.02172
Std Dev 1.005

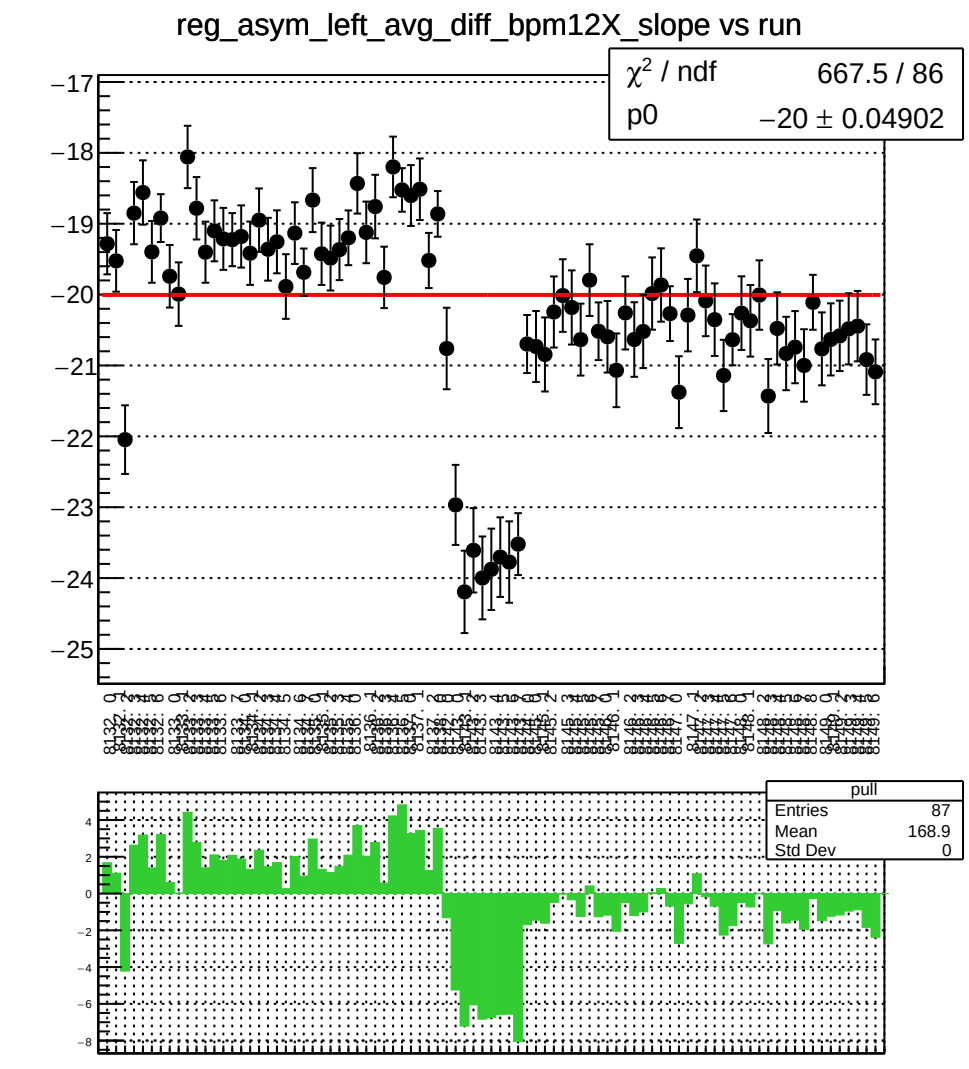

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 61.67 / 86
p0 4.472 ± 1.137
pull
Entries 87
Mean −104.8
Std Dev 111.1

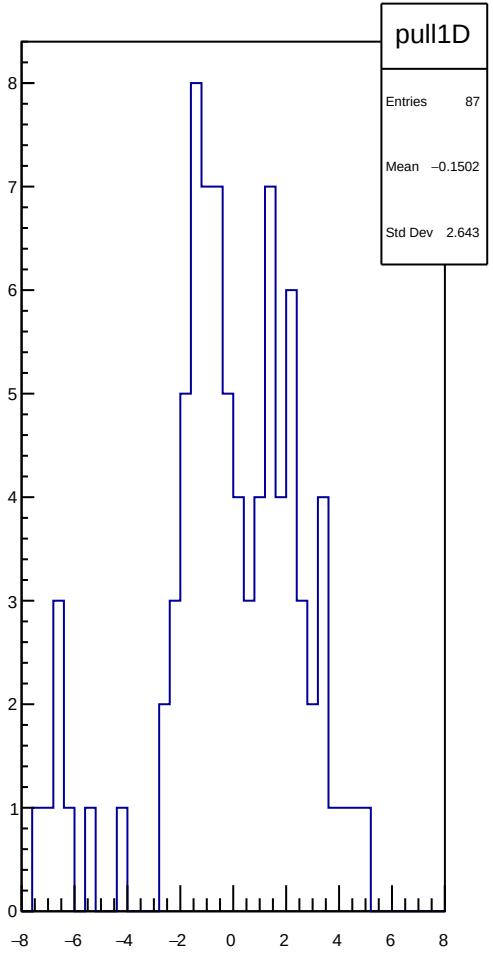

pull1D
Entries 87
Mean 0.003495
Std Dev 0.8419

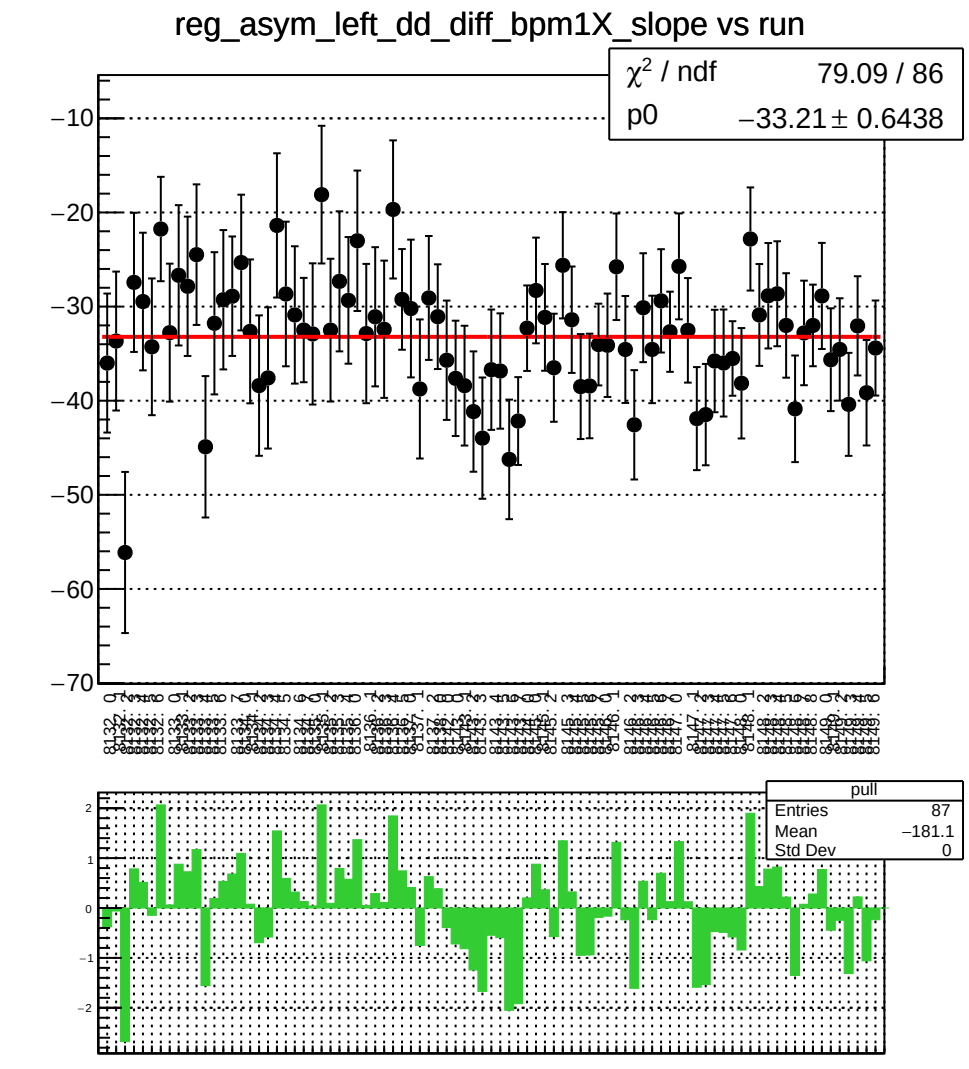

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 86.73 / 86
p0 0.5906 ± 0.6365
pull
Entries 87
Mean −268.3
Std Dev 0

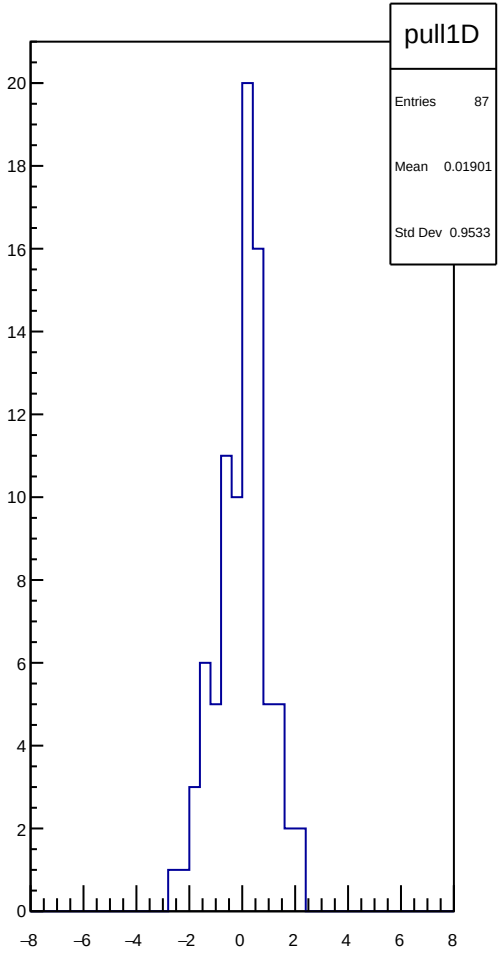

pull1D
Entries 87
Mean −0.01525
Std Dev 0.9984

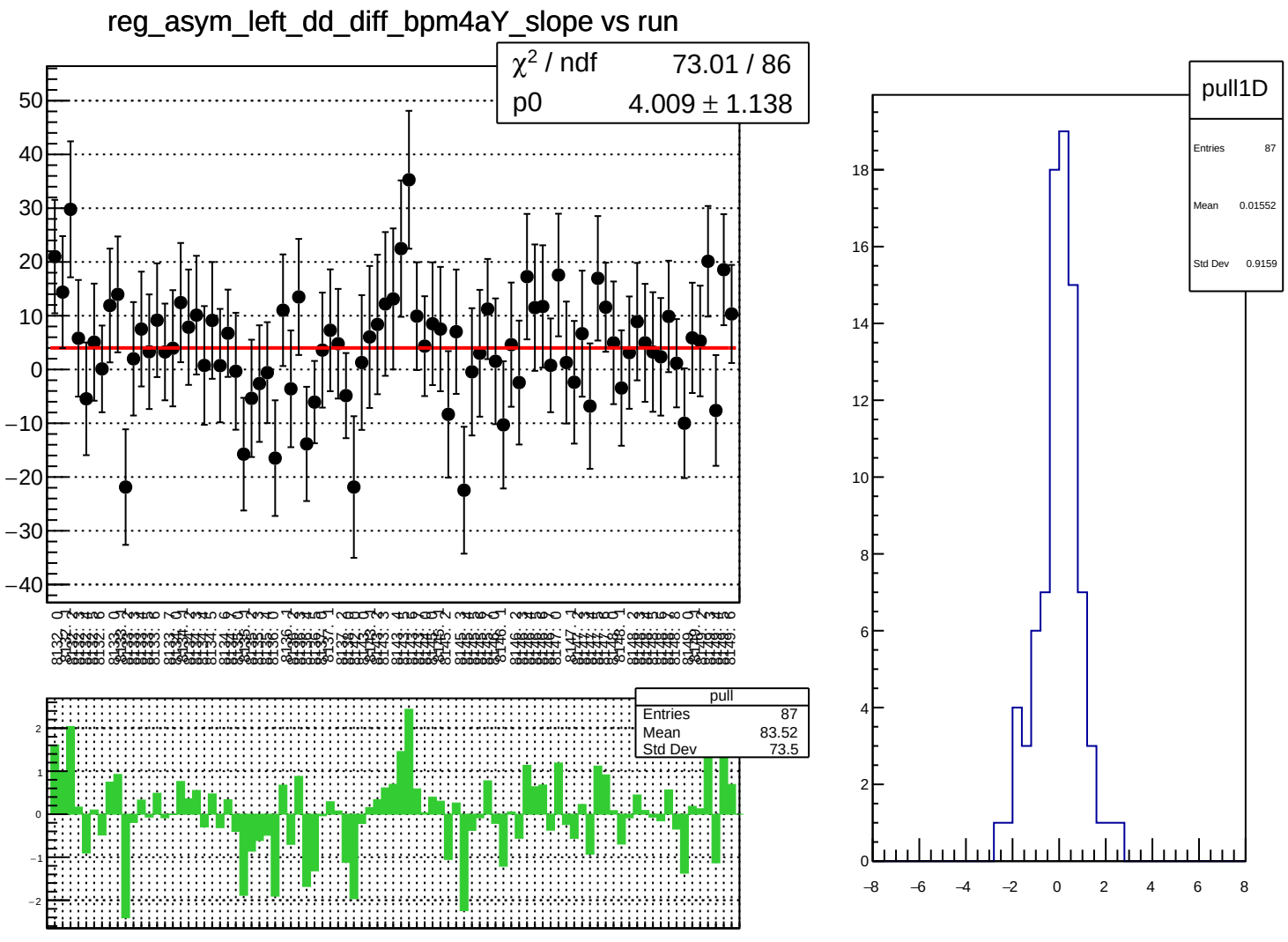

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 63.31 / 86
p0 5.698 ± 1.217
pull
Entries 87
Mean 2278
Std Dev 0
pull1D
Entries 87
Mean 0.0005009
Std Dev 0.8531

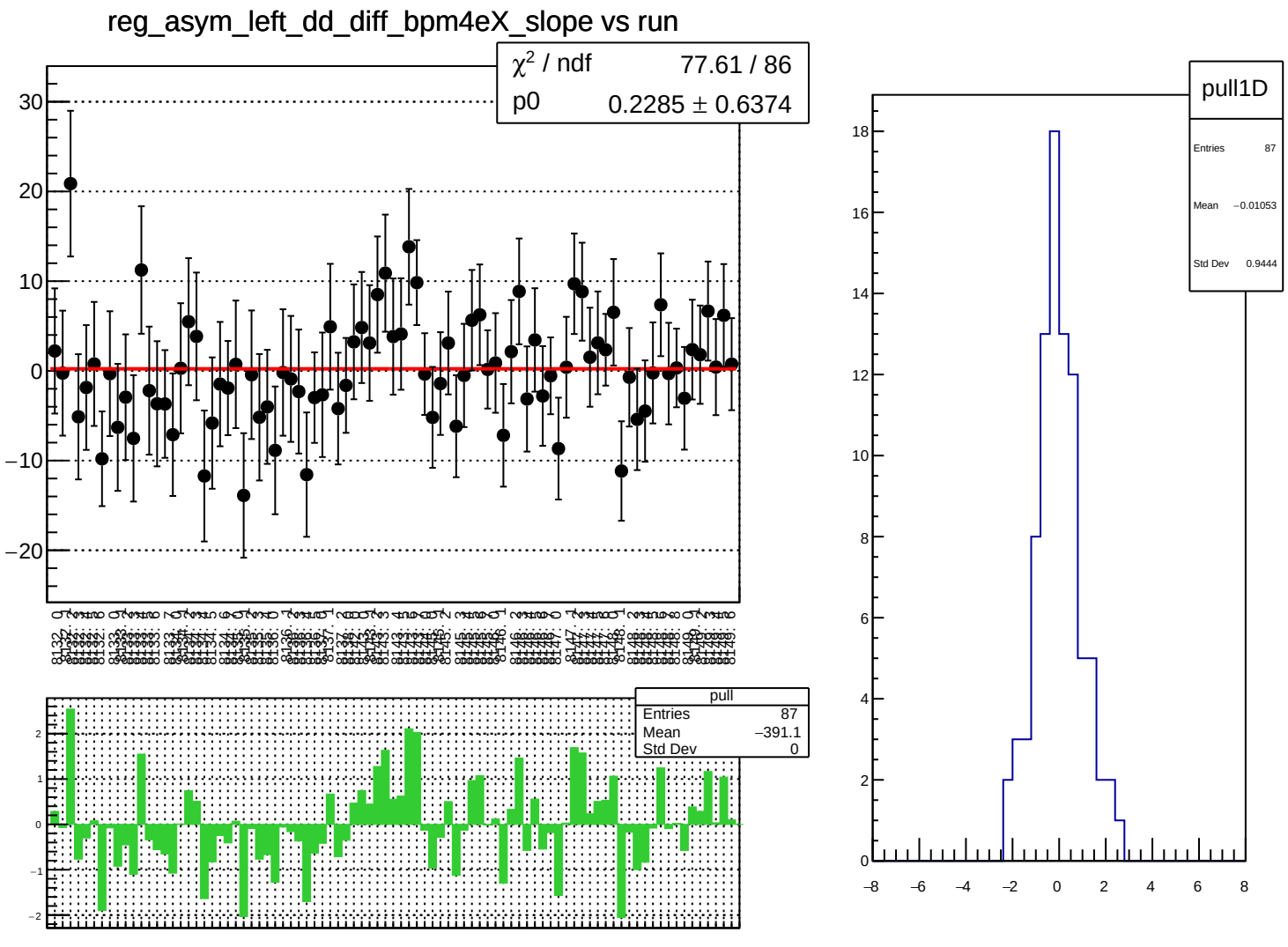

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 667.5 / 86
p0 −20 ± 0.04902
pull
Entries 87
Mean 168.9
Std Dev 0

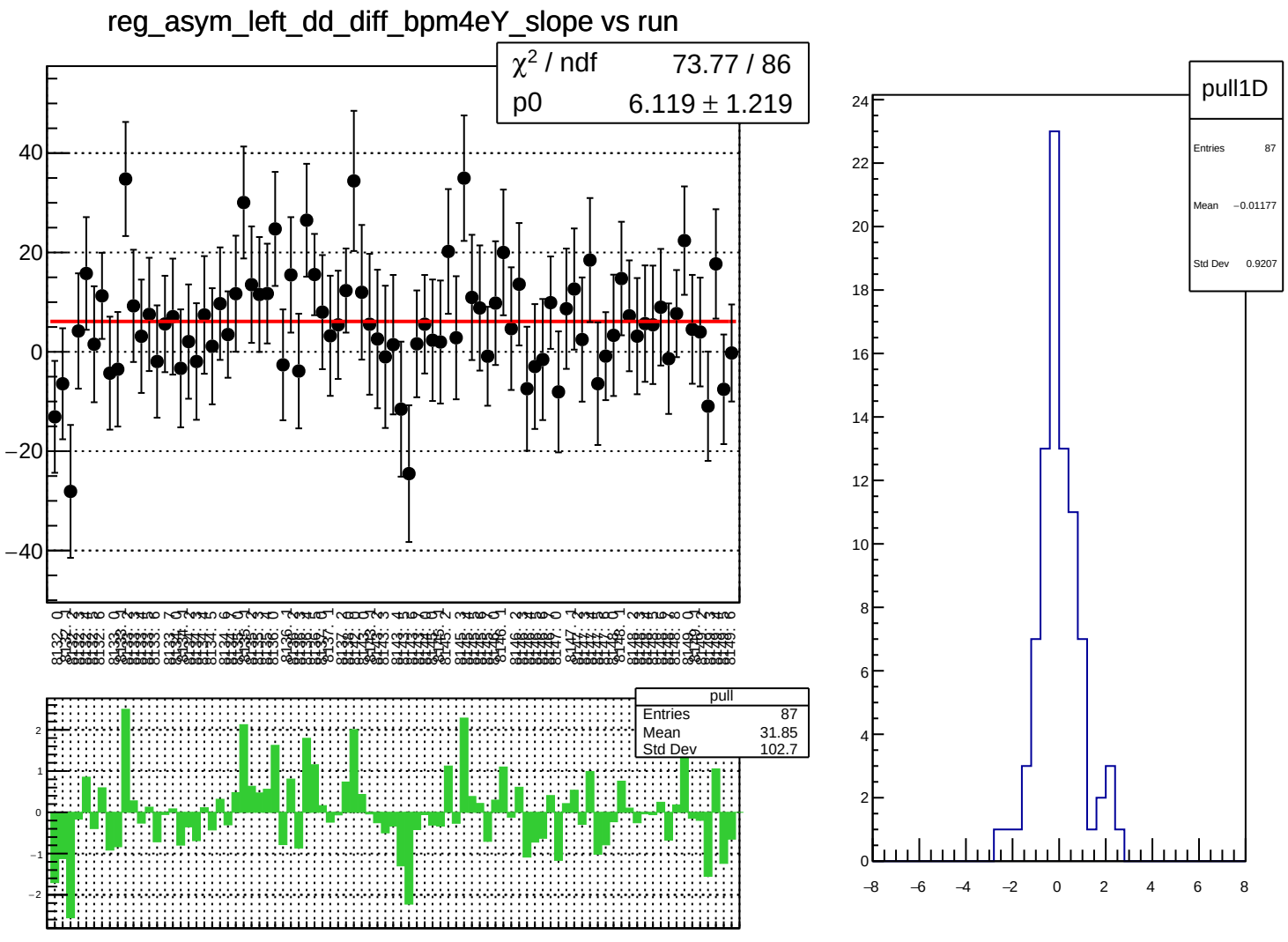

pull1D
Entries 87
Mean −0.1502
Std Dev 2.643

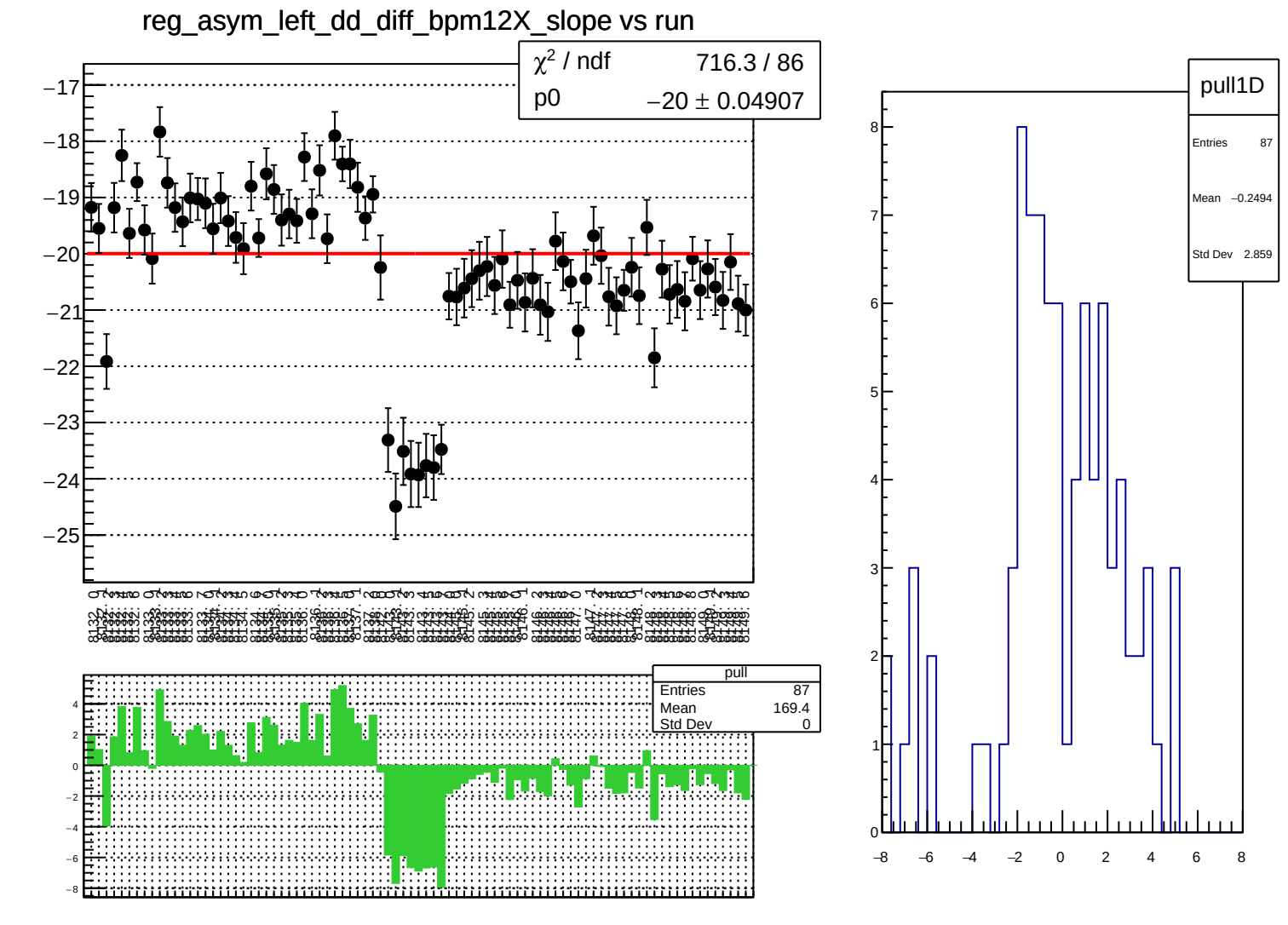

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 79.09 / 86
p0 −33.21 ± 0.6438
pull
Entries 87
Mean −181.1
Std Dev 0

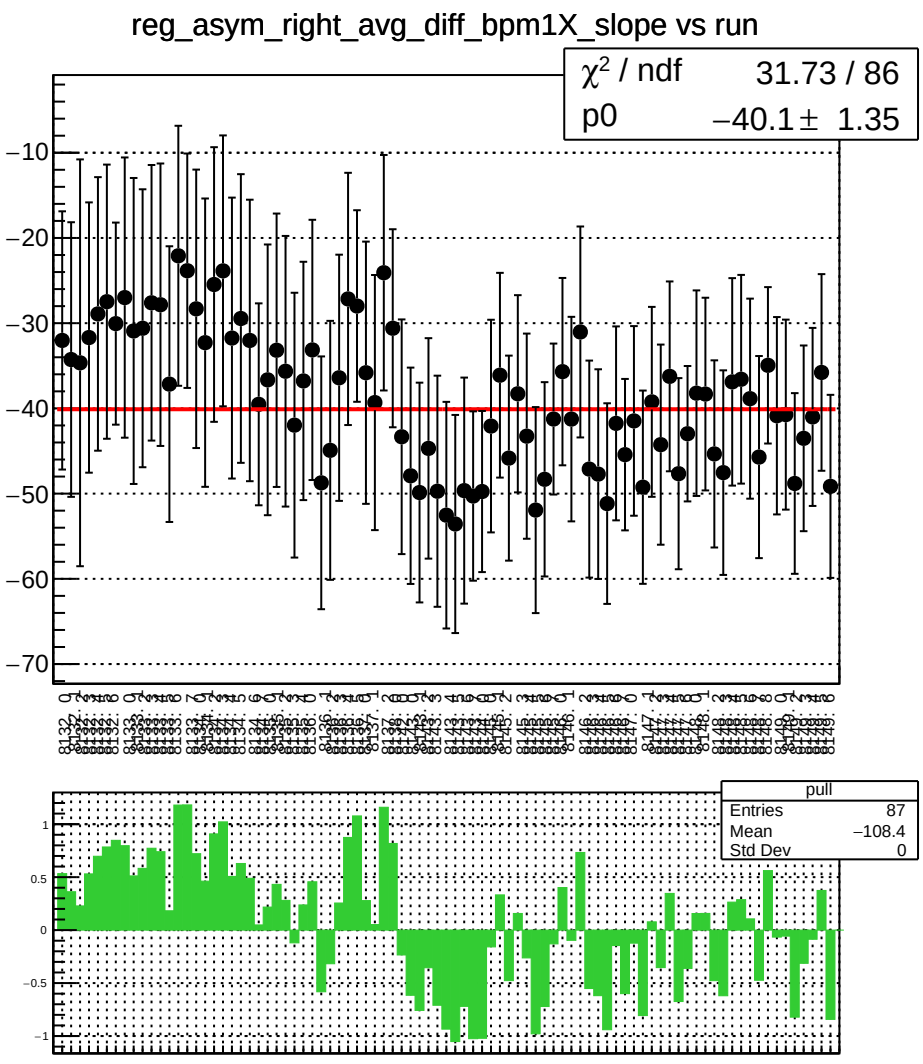

pull1D
Entries 87
Mean 0.01901
Std Dev 0.9533

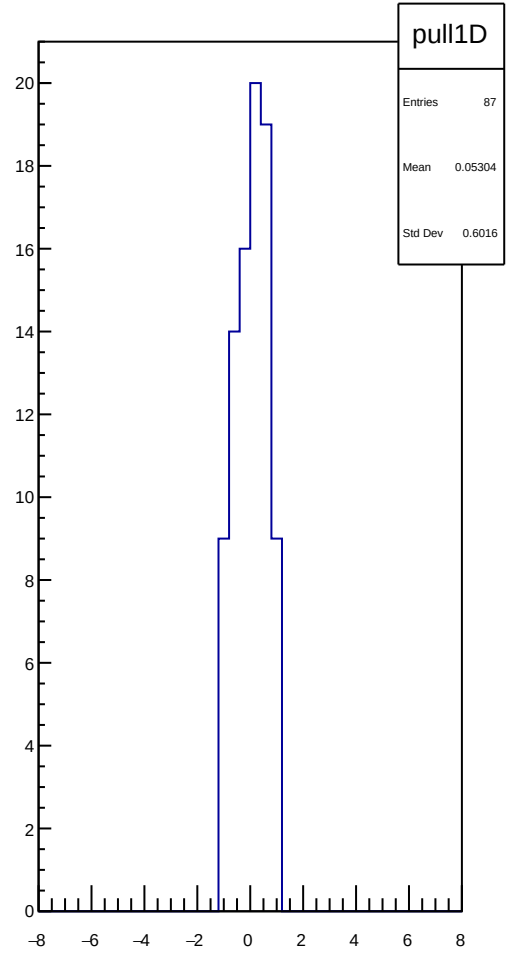

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 73.01 / 86
p0 4.009 ± 1.138
pull
Entries 87
Mean 83.52
Std Dev 73.5
pull1D
Entries 87
Mean 0.01552
Std Dev 0.9159

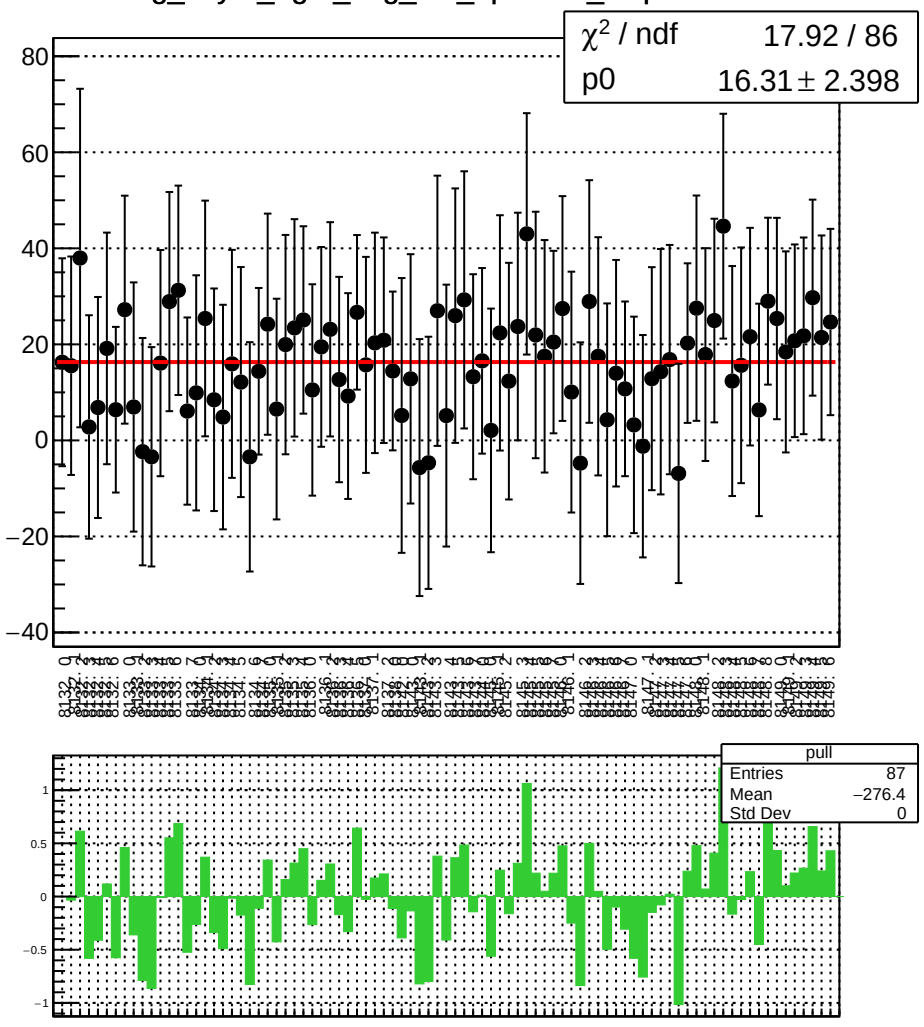

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 77.61 / 86
p0 0.2285 ± 0.6374
pull
Entries 87
Mean −391.1
Std Dev 0
pull1D
Entries 87
Mean −0.01053
Std Dev 0.9444

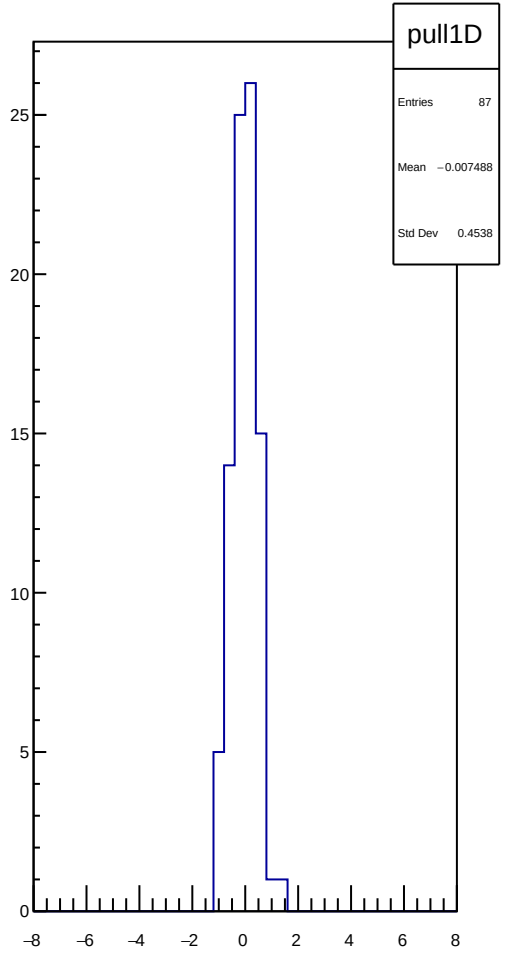

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 73.77 / 86
p0 6.119 ± 1.219
pull
Entries 87
Mean 31.85
Std Dev 102.7
pull1D
Entries 87
Mean −0.01177
Std Dev 0.9207

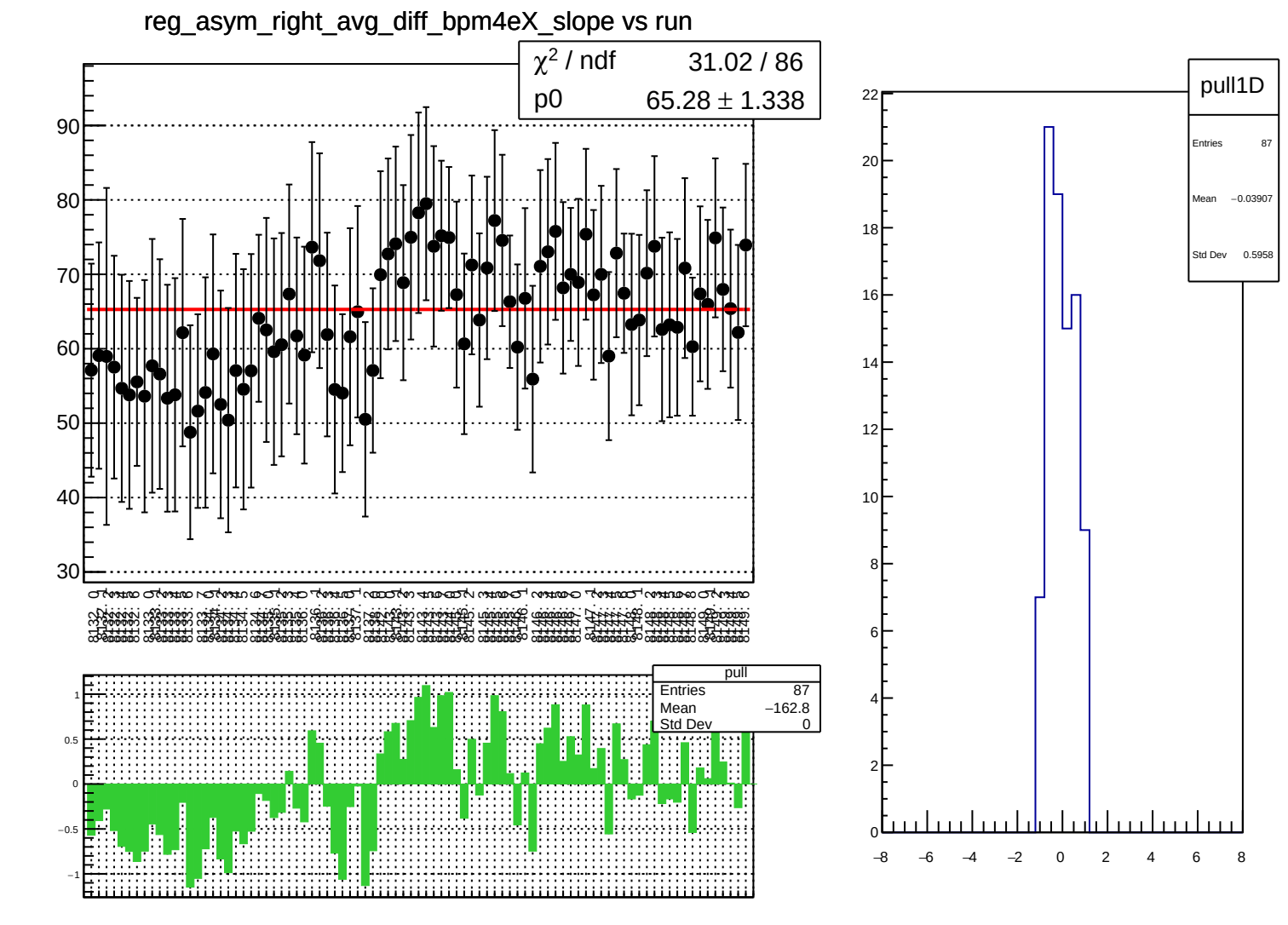

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 716.3 / 86
p0 −20 ± 0.04907
pull
Entries 87
Mean 169.4
Std Dev 0
pull1D
Entries 87
Mean −0.2494
Std Dev 2.859

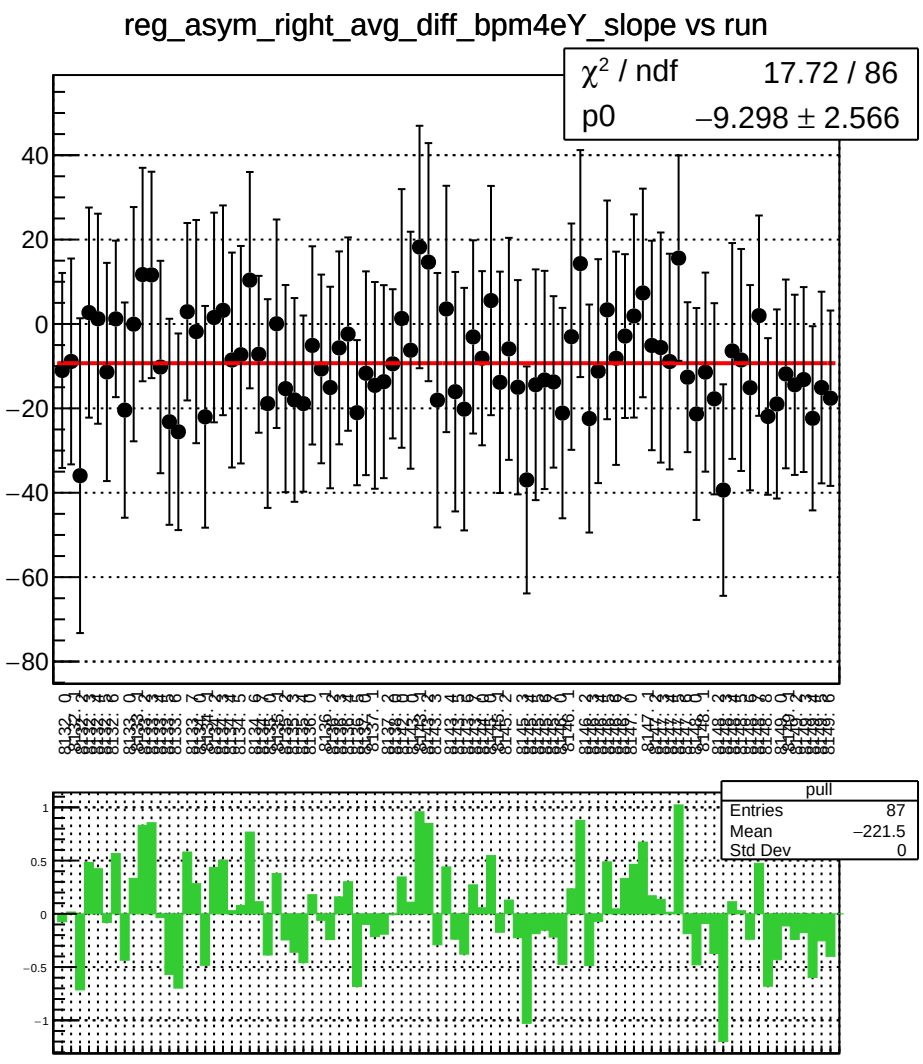

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 31.73 / 86
p0 −40.1 ± 1.35
pull
Entries 87
Mean −108.4
Std Dev 0

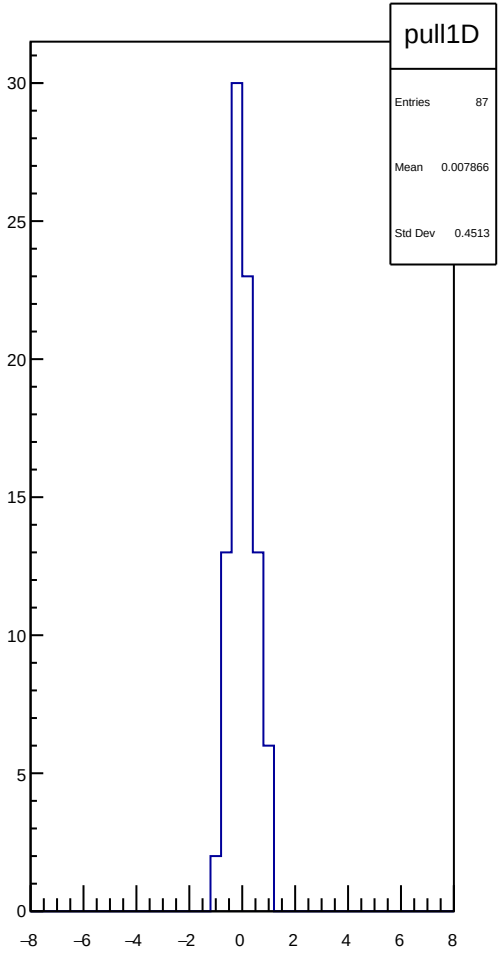

pull1D
Entries 87
Mean 0.05304
Std Dev 0.6016

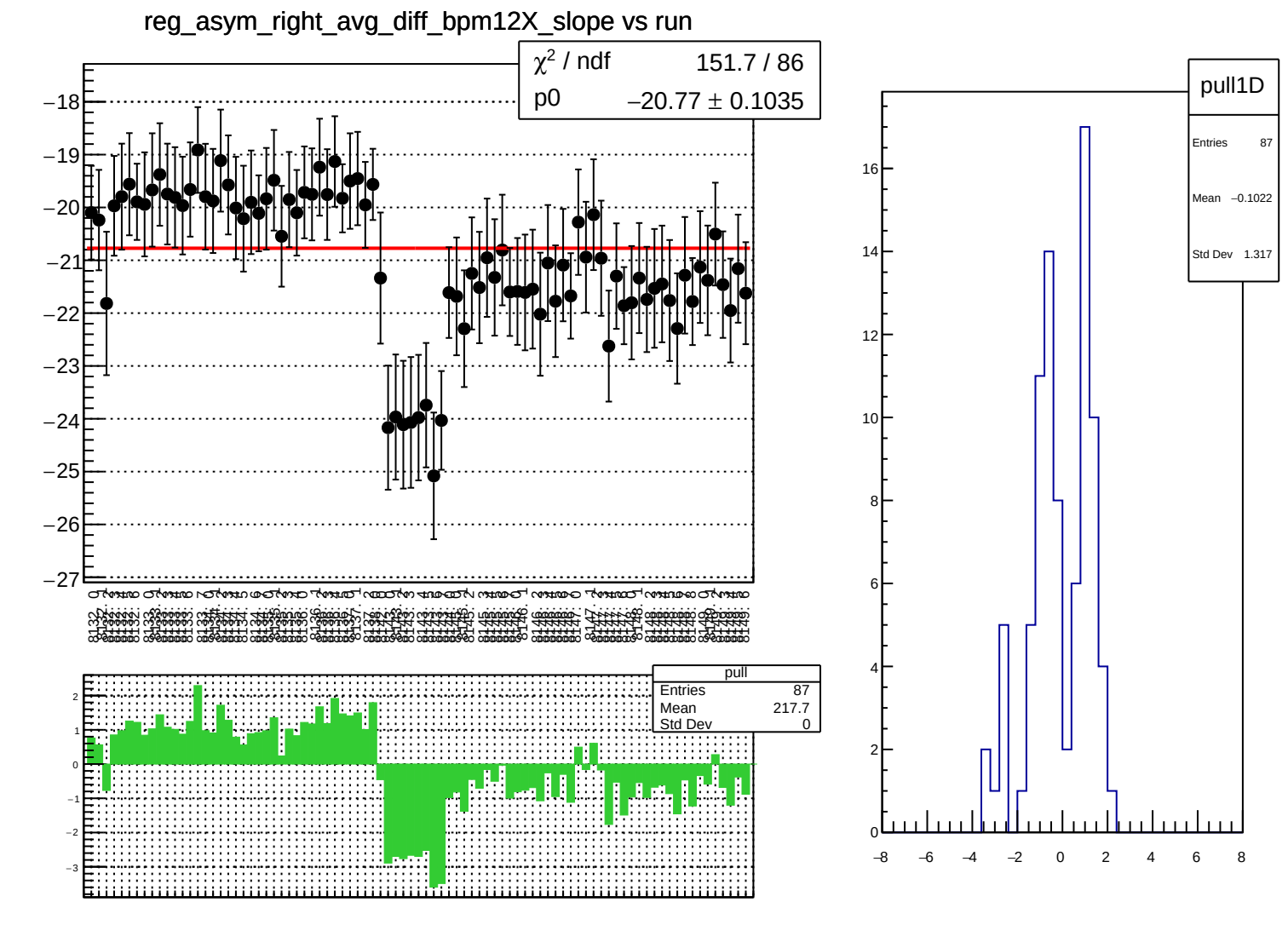

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 17.92 / 86
p0 16.31 ± 2.398
pull
Entries 87
Mean −276.4
Std Dev 0

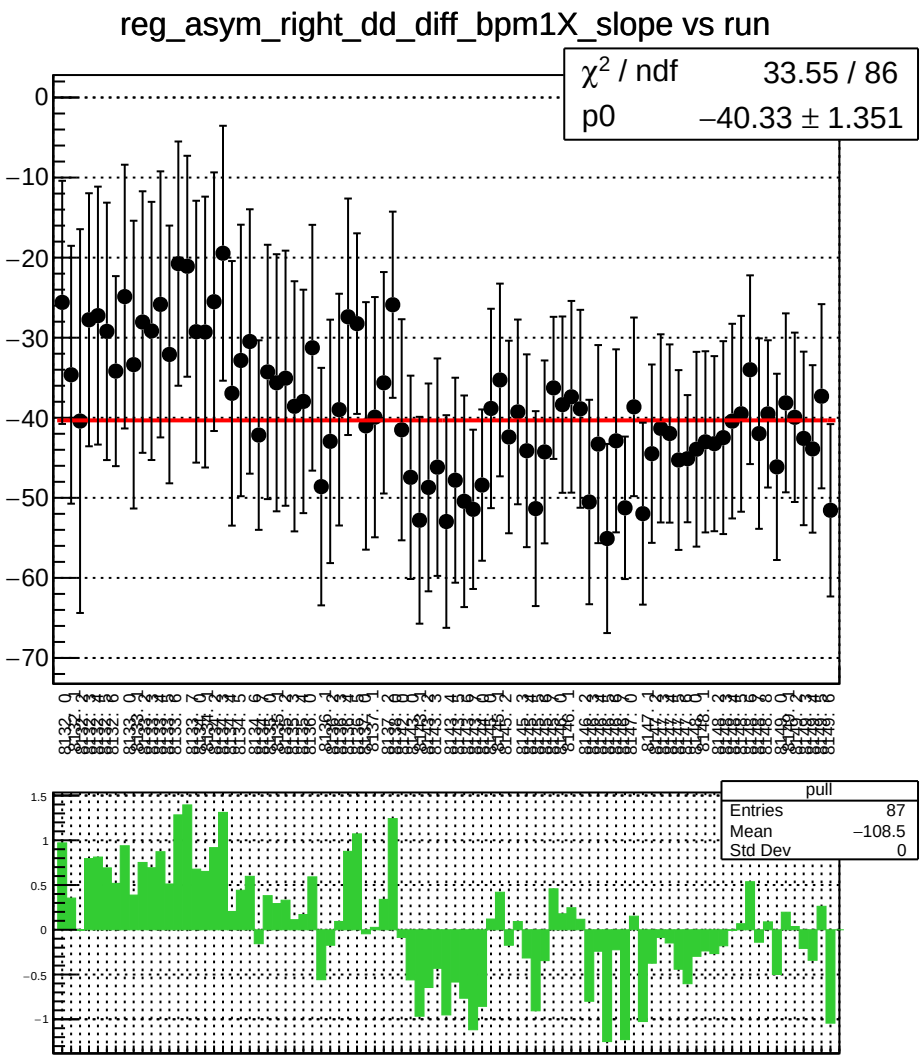

pull1D
Entries 87
Mean −0.007488
Std Dev 0.4538

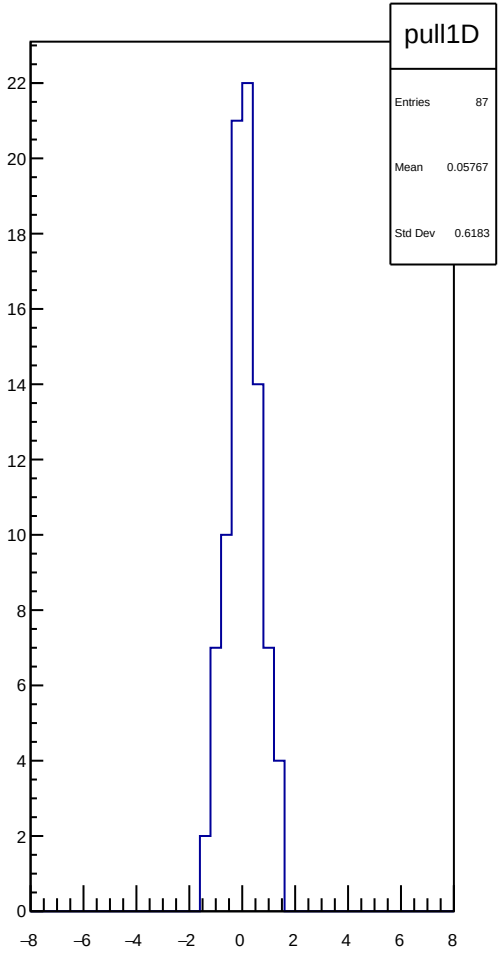

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 31.02 / 86
p0 65.28 ± 1.338
pull
Entries 87
Mean −162.8
Std Dev 0
pull1D
Entries 87
Mean −0.03907
Std Dev 0.5958

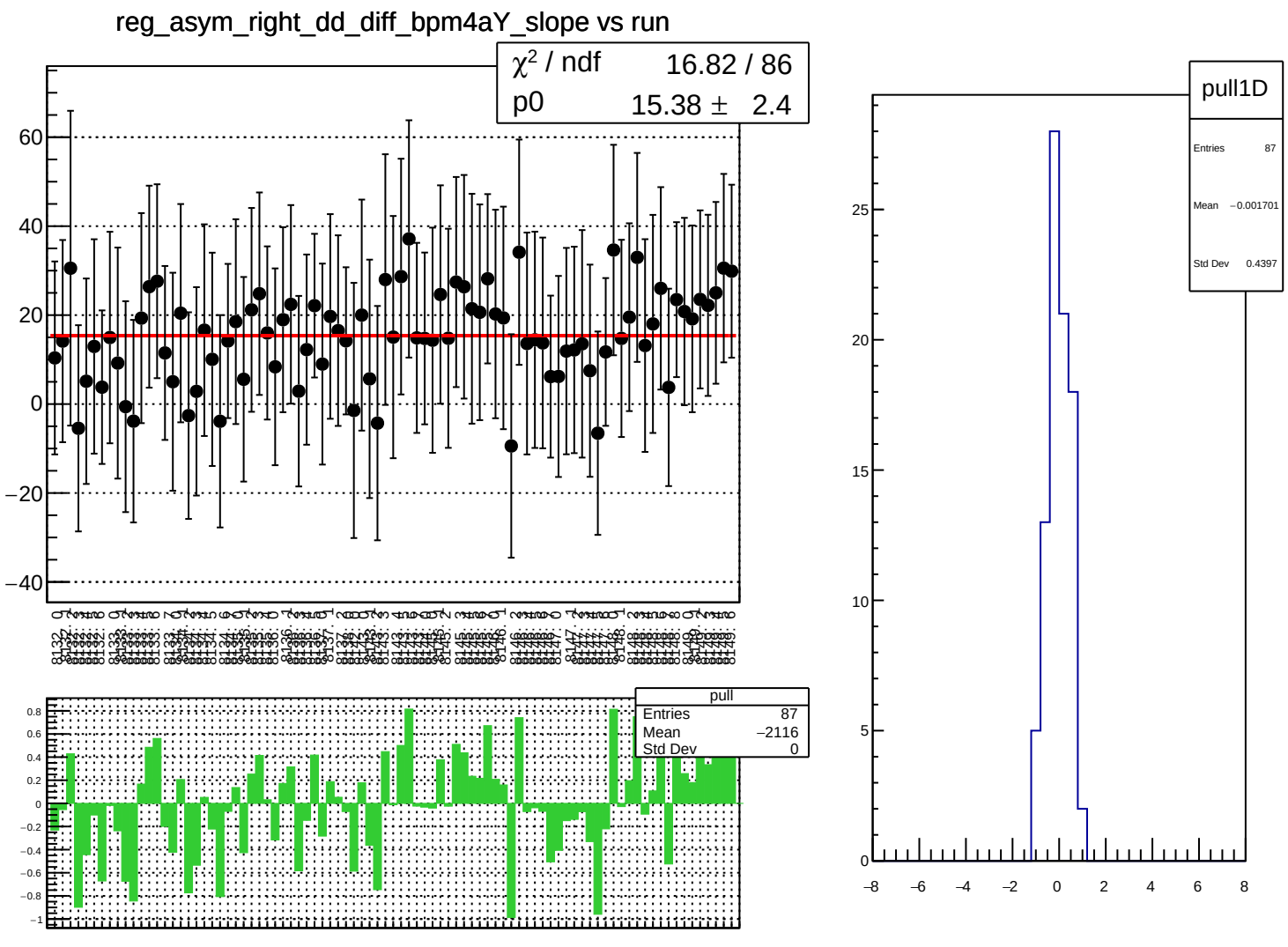

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 17.72 / 86
p0 −9.298 ± 2.566
pull
Entries 87
Mean −221.5
Std Dev 0

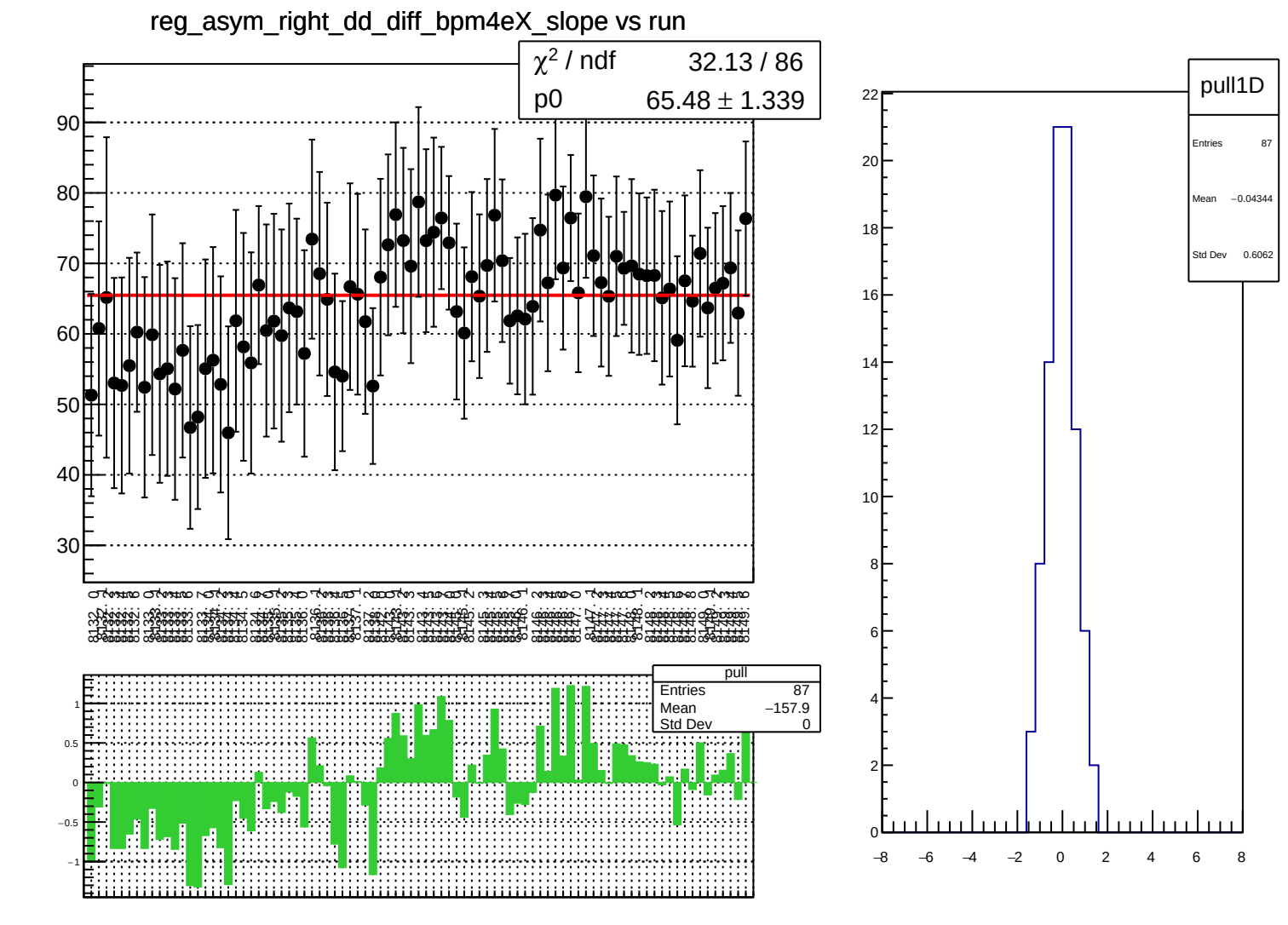

pull1D
Entries 87
Mean 0.007866
Std Dev 0.4513

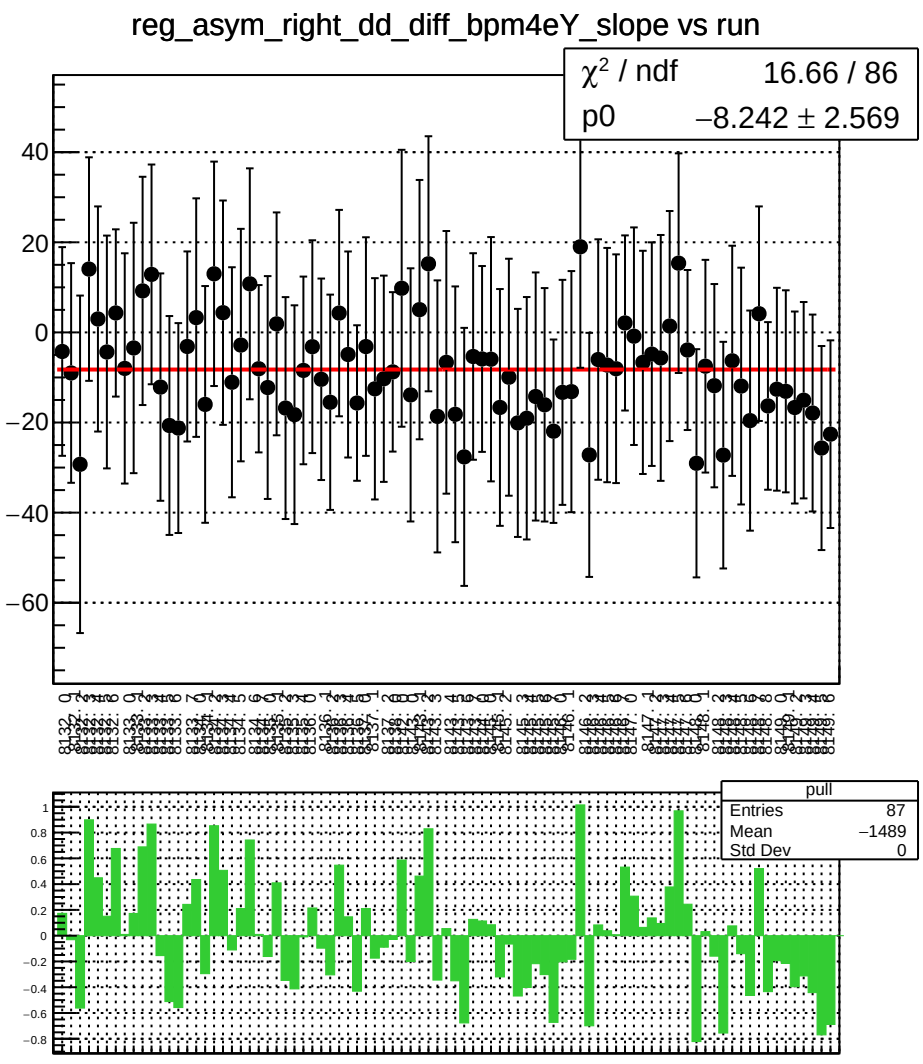

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 151.7 / 86
p0 −20.77 ± 0.1035
pull
Entries 87
Mean 217.7
Std Dev 0
pull1D
Entries 87
Mean −0.1022
Std Dev 1.317

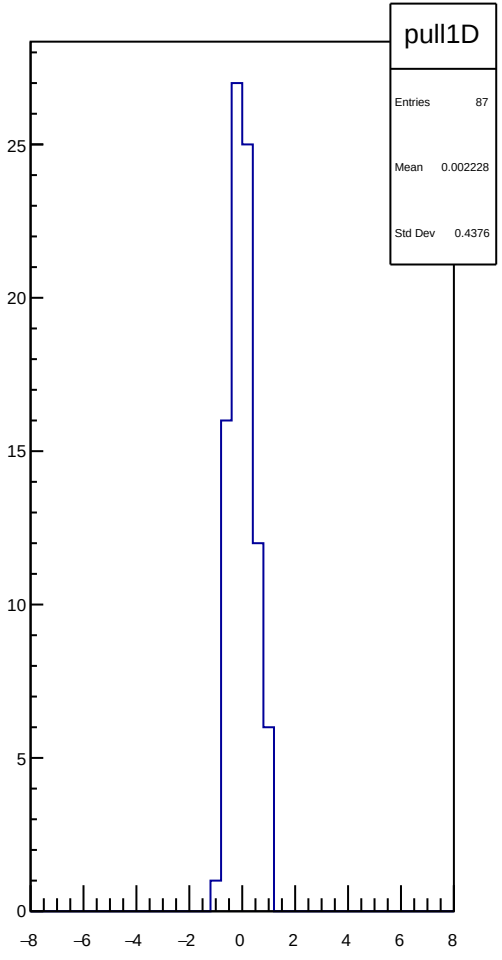

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 33.55 / 86
p0 −40.33 ± 1.351
pull
Entries 87
Mean −108.5
Std Dev 0

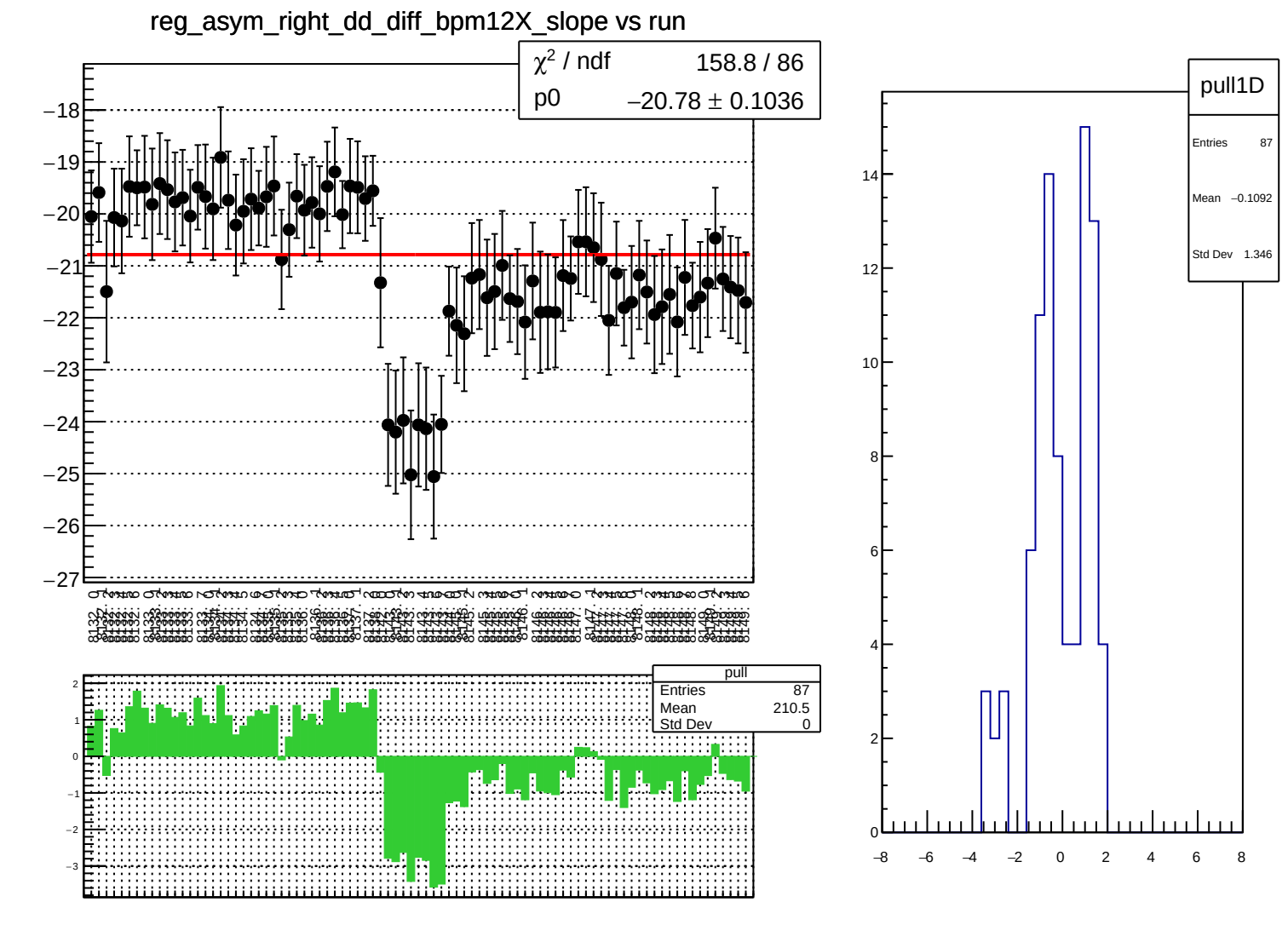

pull1D
Entries 87
Mean 0.05767
Std Dev 0.6183

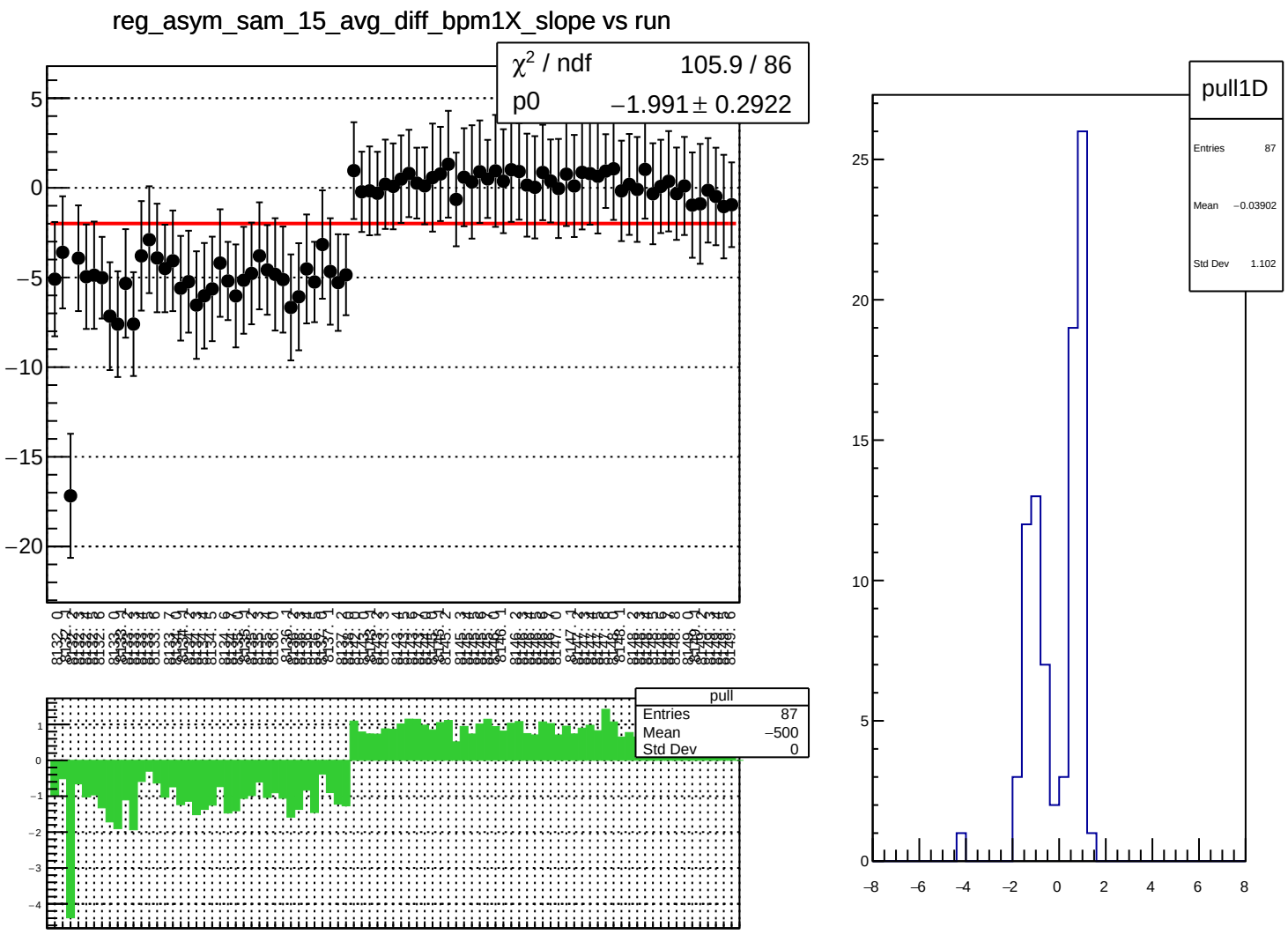

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 16.82 / 86
p0 15.38 ± 2.4
pull
Entries 87
Mean −2116
Std Dev 0
pull1D
Entries 87
Mean −0.001701
Std Dev 0.4397

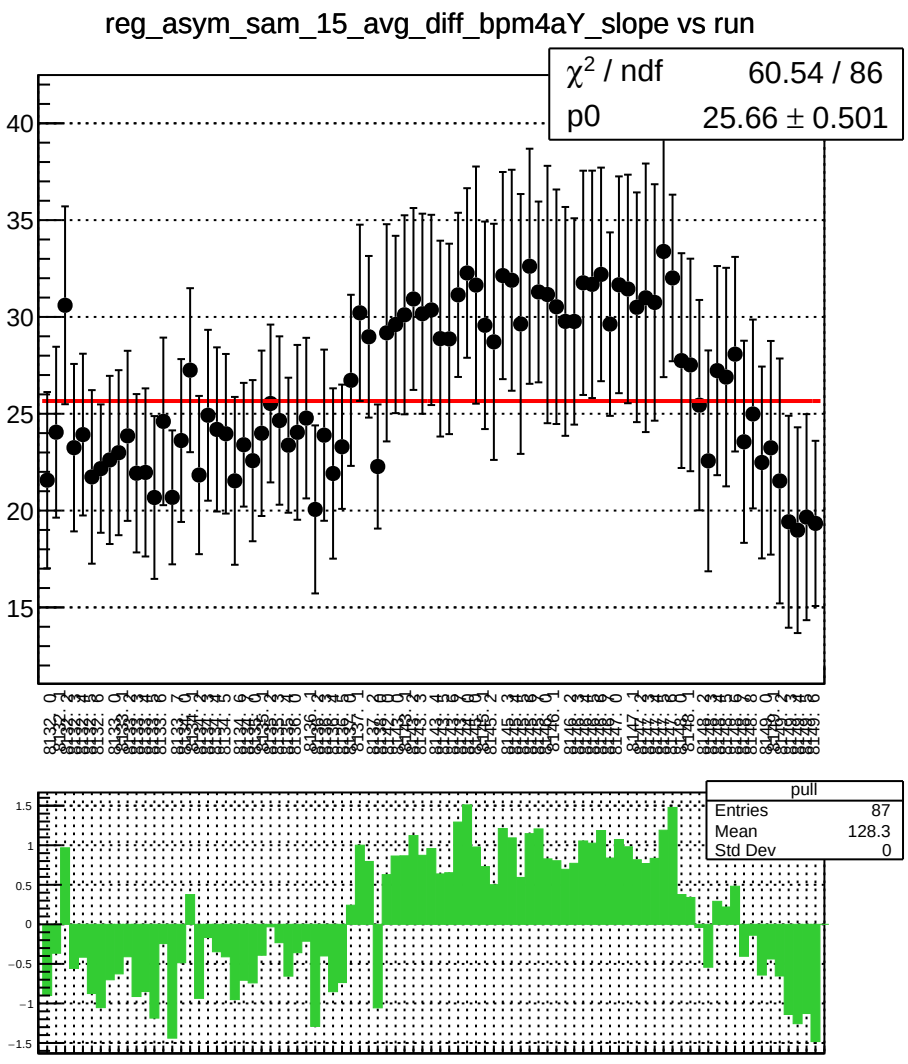

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 32.13 / 86
p0 65.48 ± 1.339
pull
Entries 87
Mean −157.9
Std Dev 0
pull1D
Entries 87
Mean −0.04344
Std Dev 0.6062

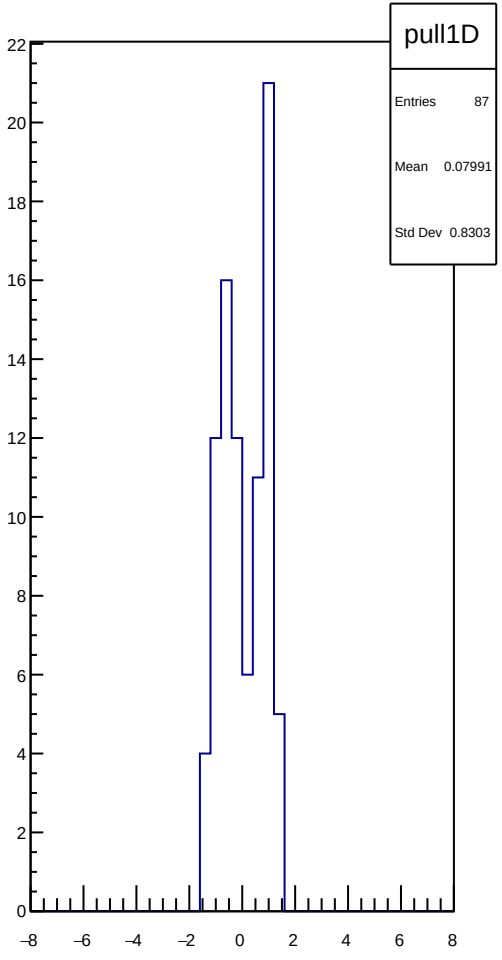

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 16.66 / 86
p0 −8.242 ± 2.569
pull
Entries 87
Mean −1489
Std Dev 0

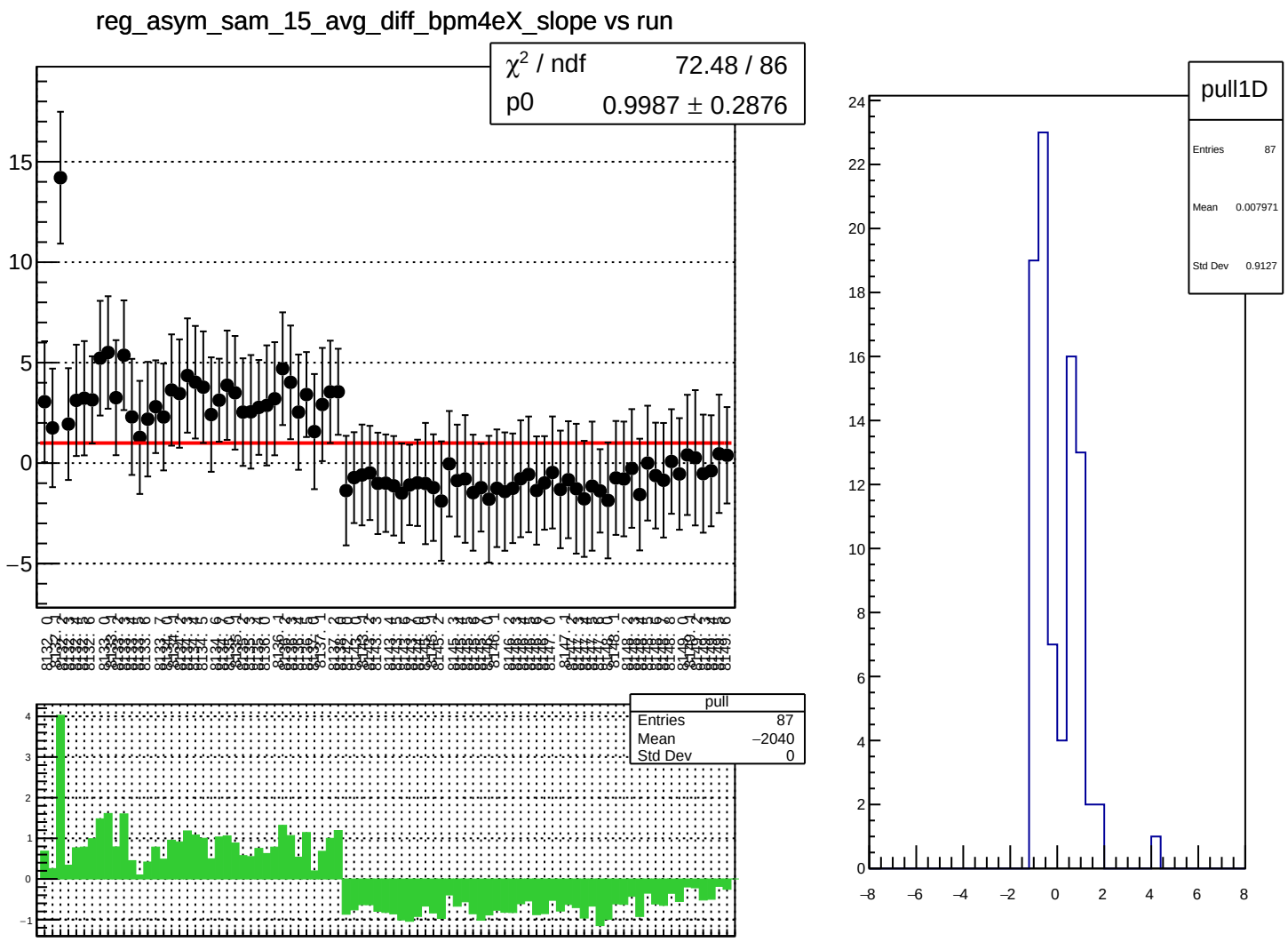

pull1D
Entries 87
Mean 0.002228
Std Dev 0.4376

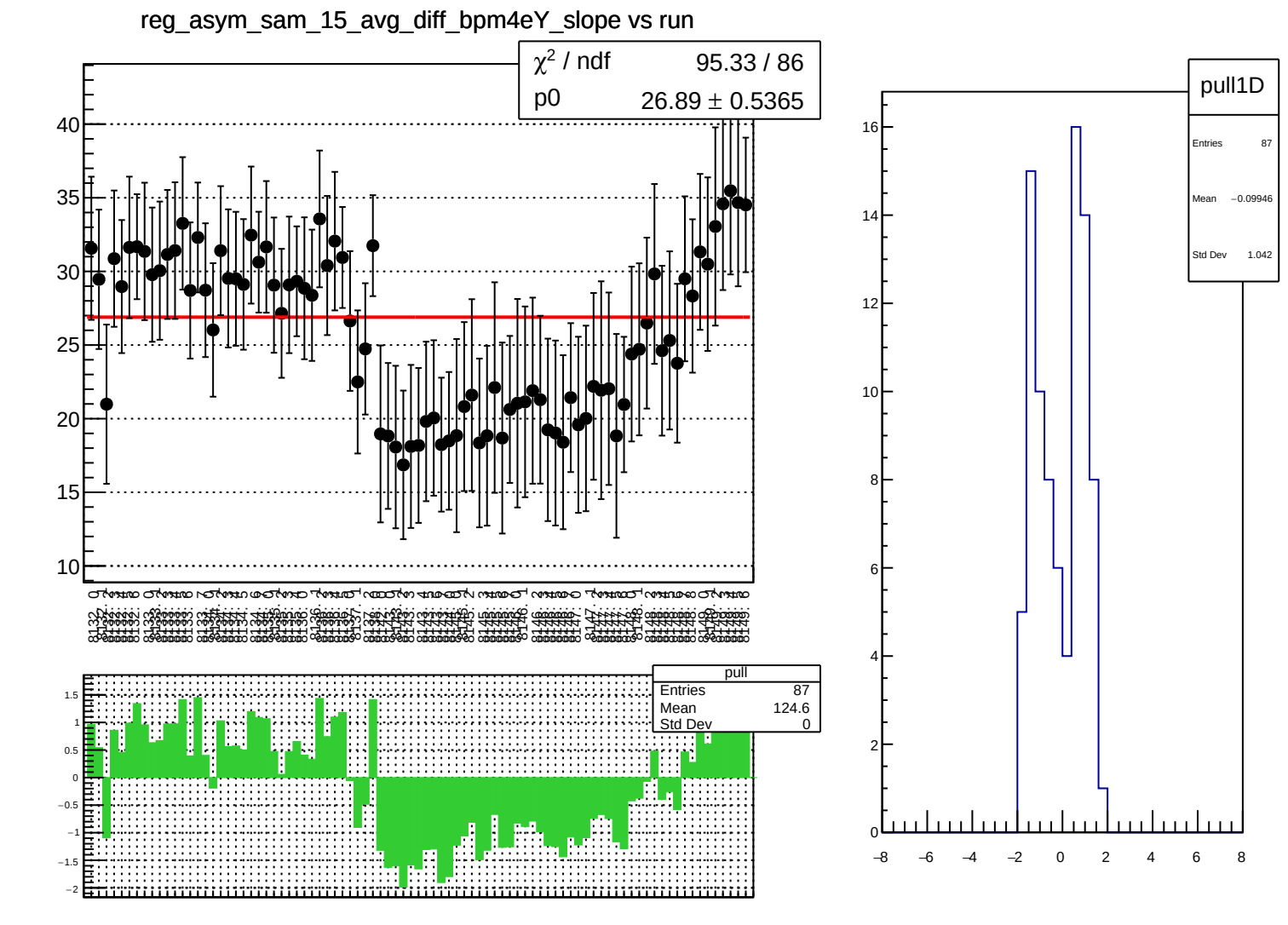

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 158.8 / 86
p0 −20.78 ± 0.1036
pull
Entries 87
Mean 210.5
Std Dev 0
pull1D
Entries 87
Mean −0.1092
Std Dev 1.346

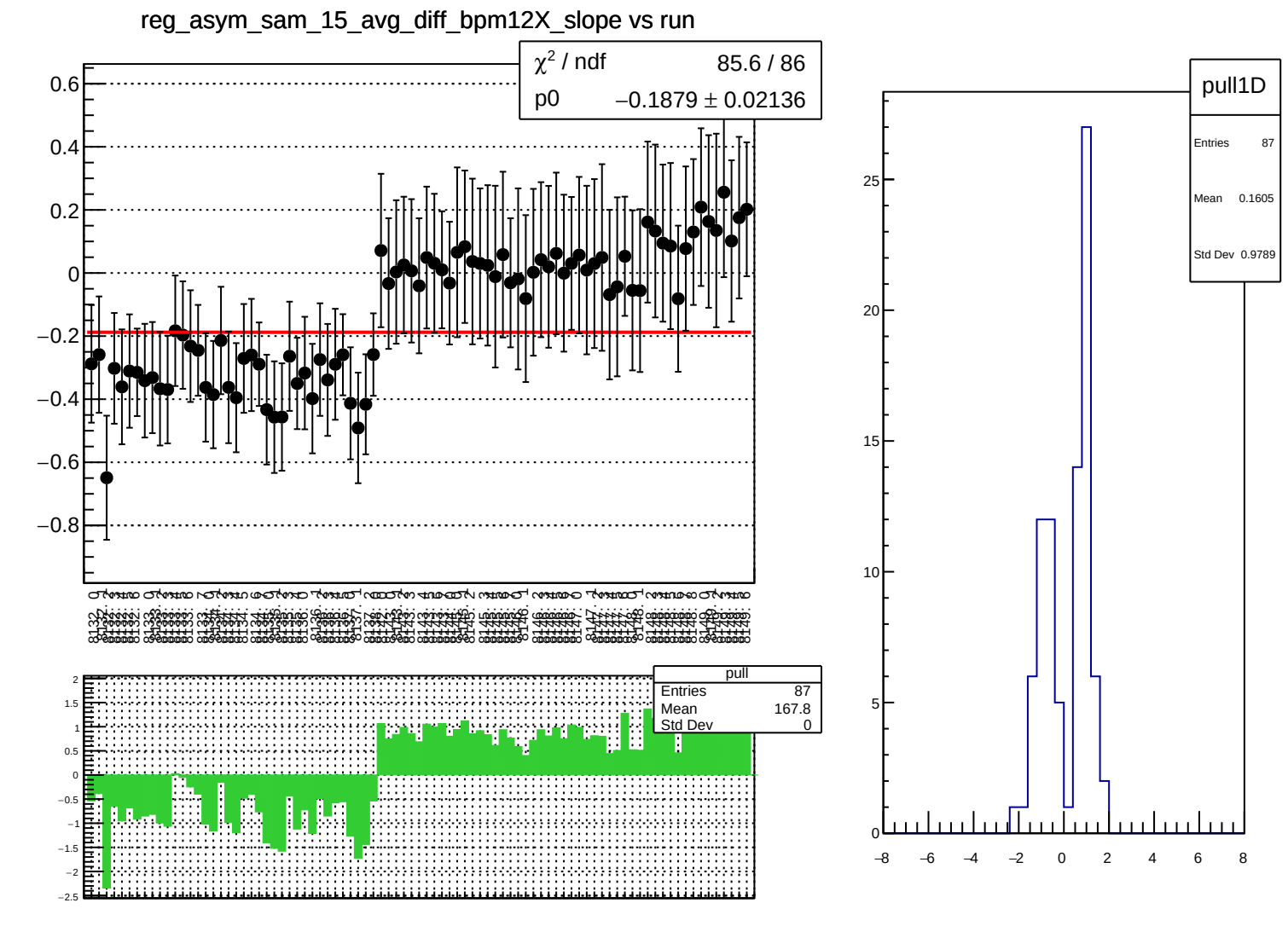

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 105.9 / 86
p0 −1.991 ± 0.2922
pull
Entries 87
Mean −500
Std Dev 0
pull1D
Entries 87
Mean −0.03902
Std Dev 1.102

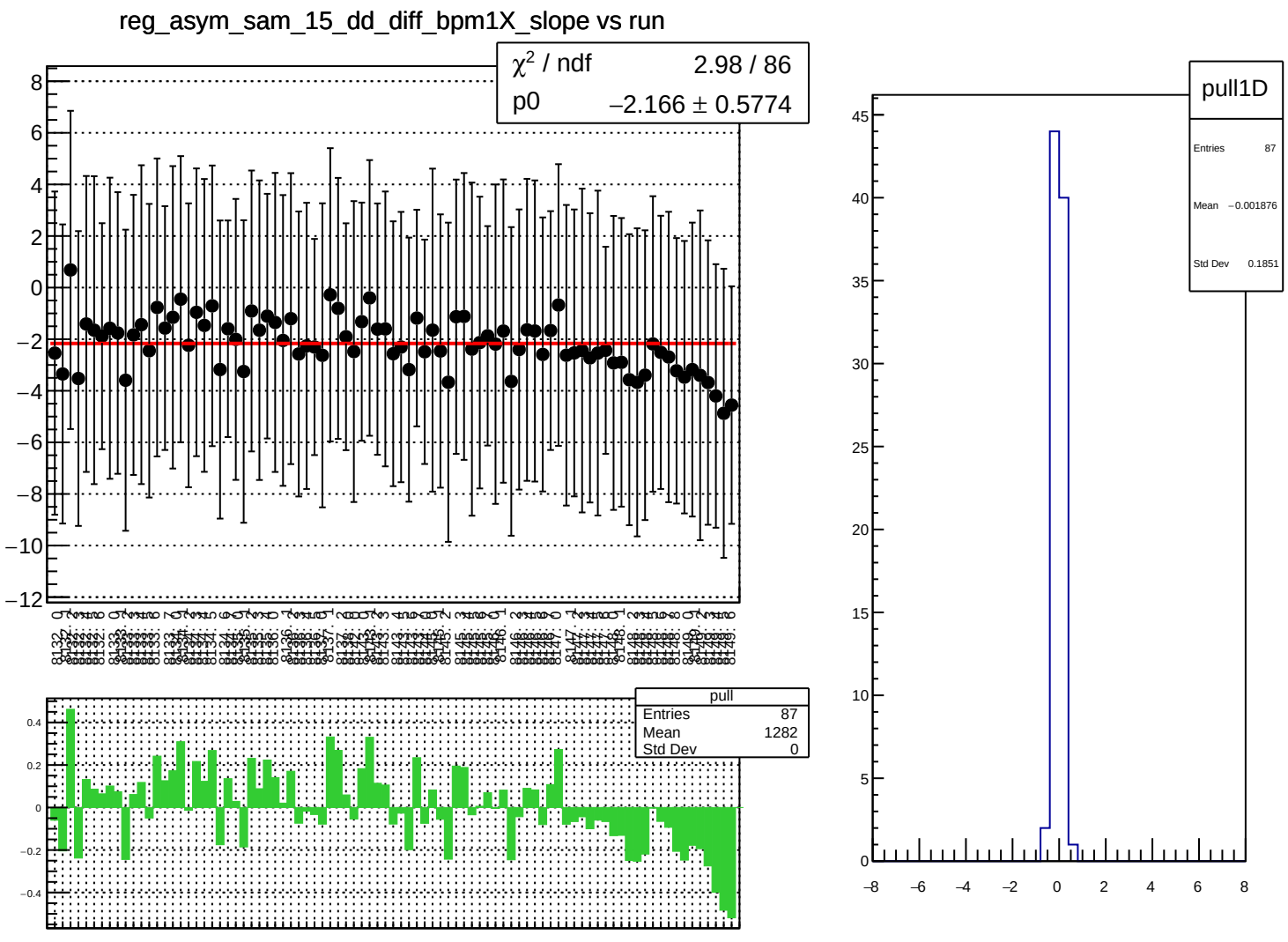

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 60.54 / 86
p0 25.66 ± 0.501
pull
Entries 87
Mean 128.3
Std Dev 0

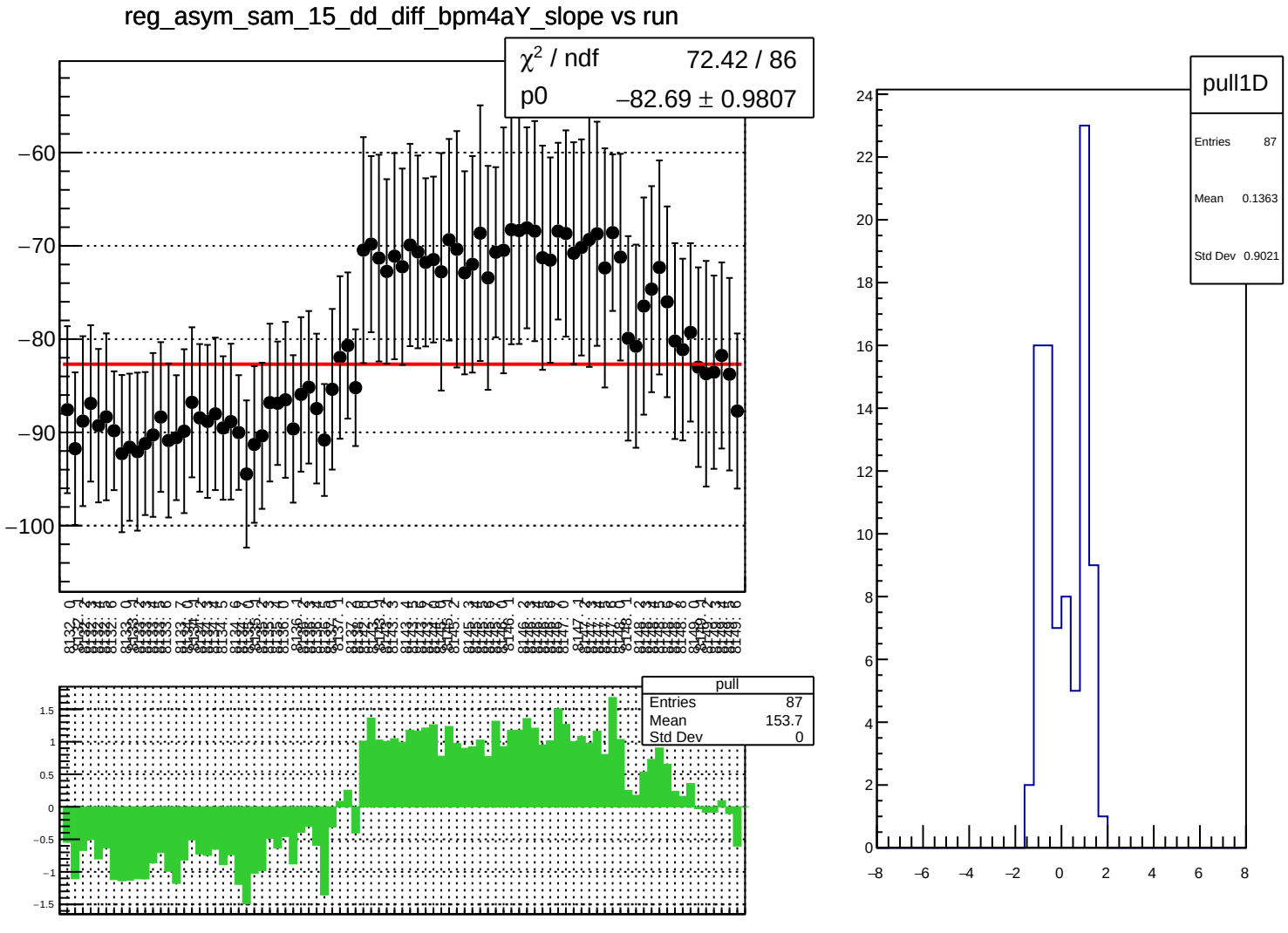

pull1D
Entries 87
Mean 0.07991
Std Dev 0.8303

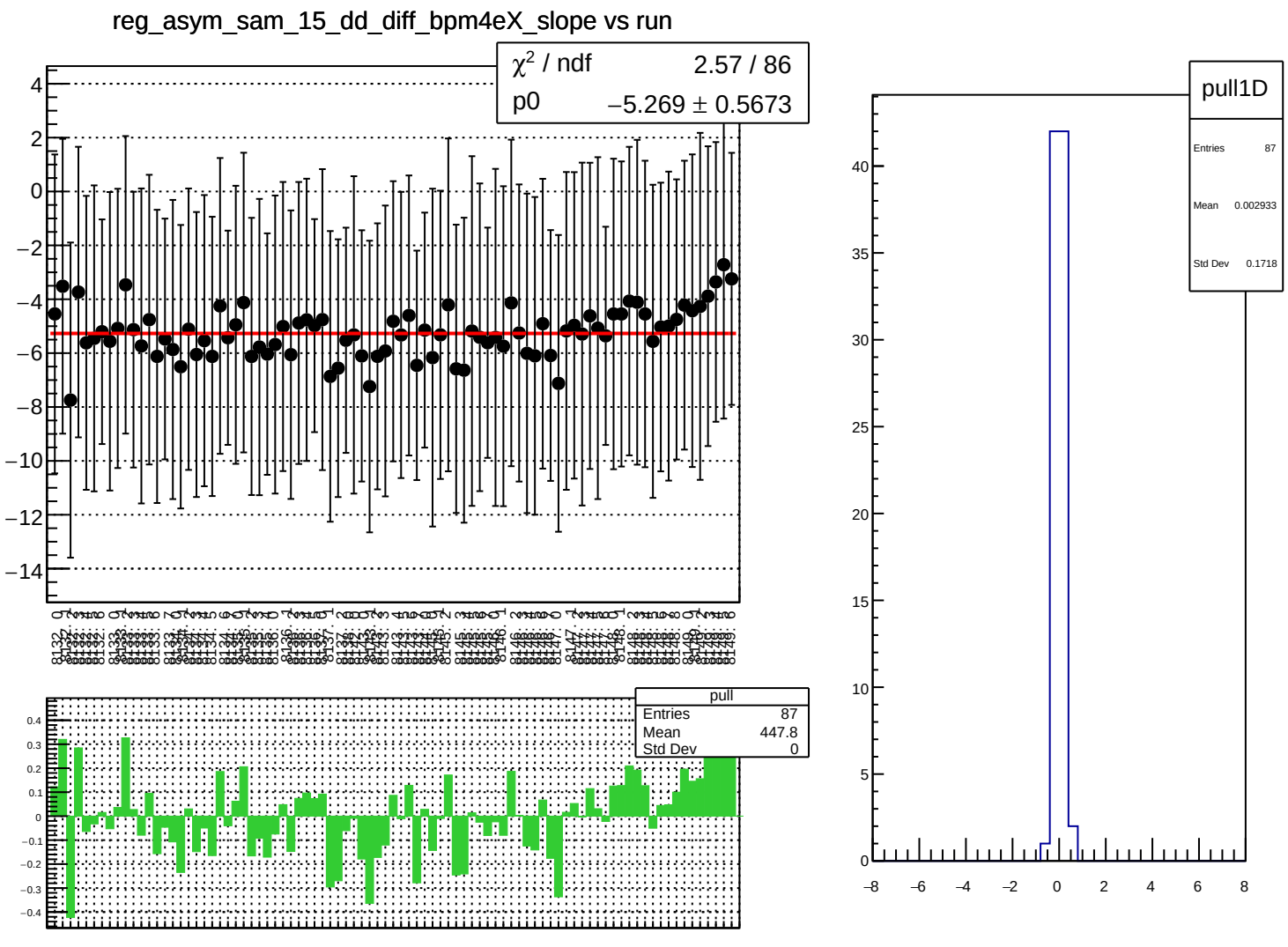

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 72.48 / 86
p0 0.9987 ± 0.2876
pull
Entries 87
Mean −2040
Std Dev 0
pull1D
Entries 87
Mean 0.007971
Std Dev 0.9127

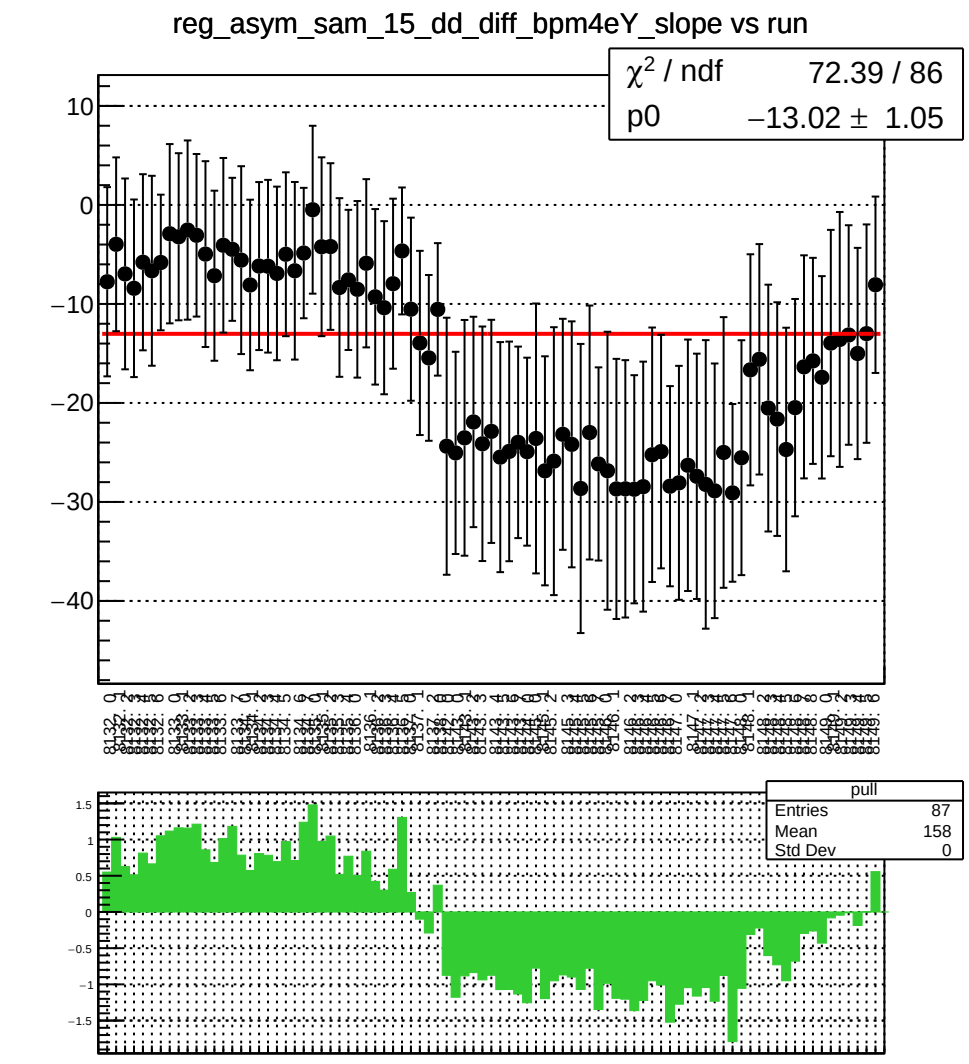

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 95.33 / 86
p0 26.89 ± 0.5365
pull
Entries 87
Mean 124.6
Std Dev 0
pull1D
Entries 87
Mean −0.09946
Std Dev 1.042

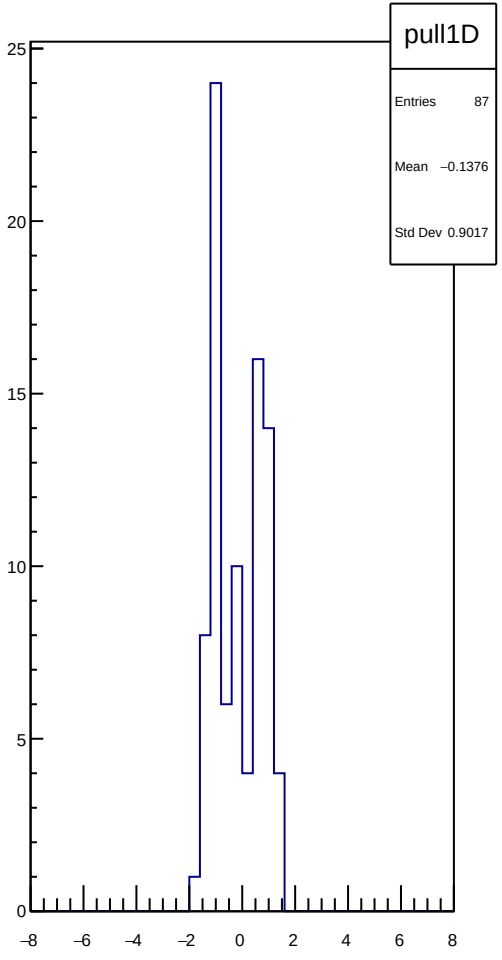

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 85.6 / 86
p0 −0.1879 ± 0.02136
pull
Entries 87
Mean 167.8
Std Dev 0
pull1D
Entries 87
Mean 0.1605
Std Dev 0.9789

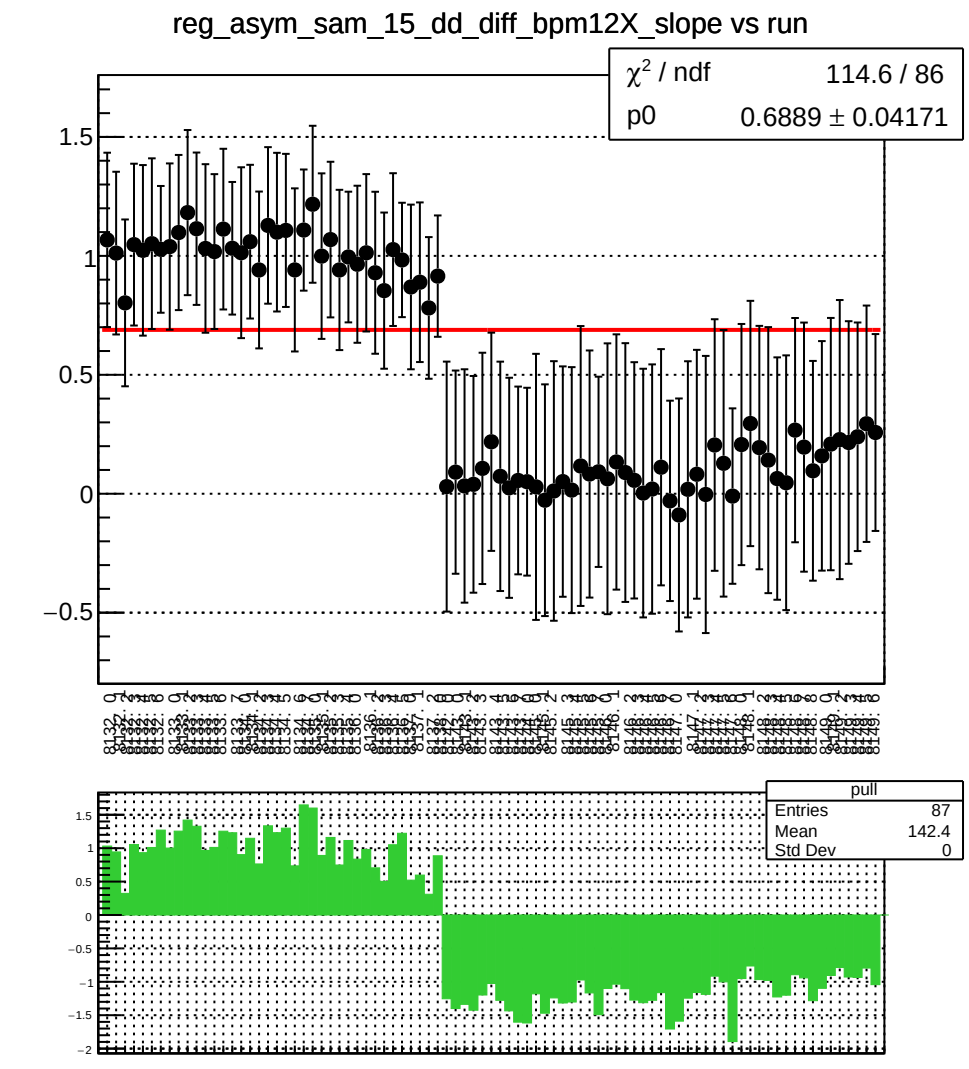

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 2.98 / 86
p0 −2.166 ± 0.5774
pull
Entries 87
Mean 1282
Std Dev 0
pull1D
Entries 87
Mean −0.001876
Std Dev 0.1851

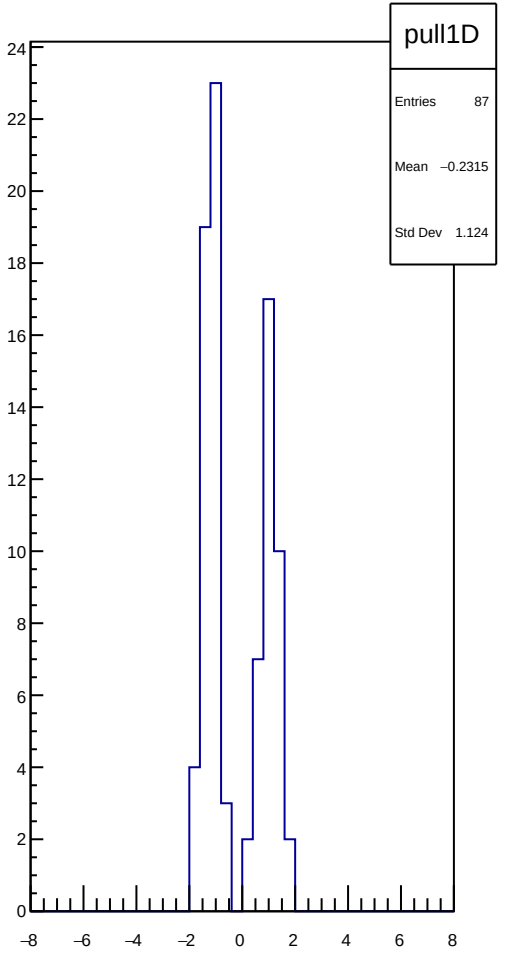

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 72.42 / 86
p0 −82.69 ± 0.9807
−60
−70
−80
−90
−100
pull
Entries 87
Mean 153.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 87
Mean 0.1363
Std Dev 0.9021
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

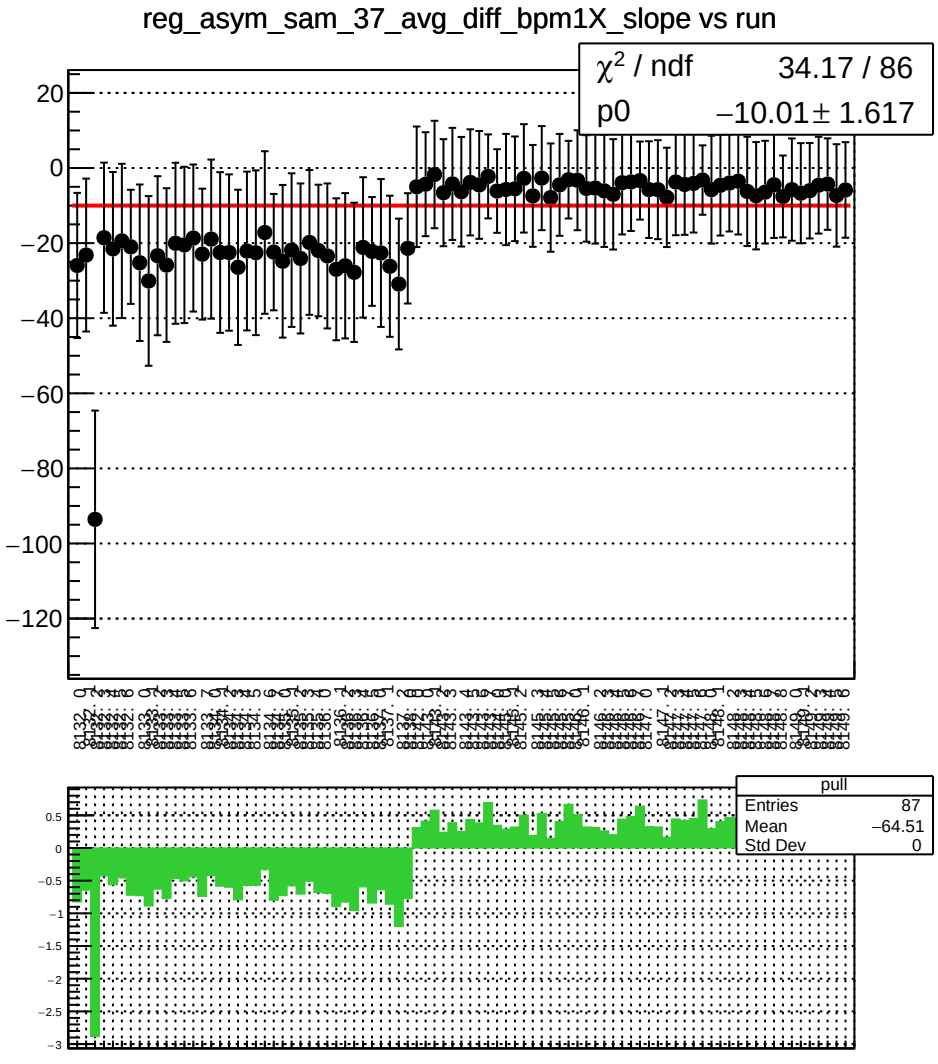

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.57 / 86
p0 −5.269 ± 0.5673
pull
Entries 87
Mean 447.8
Std Dev 0
pull1D
Entries 87
Mean 0.002933
Std Dev 0.1718

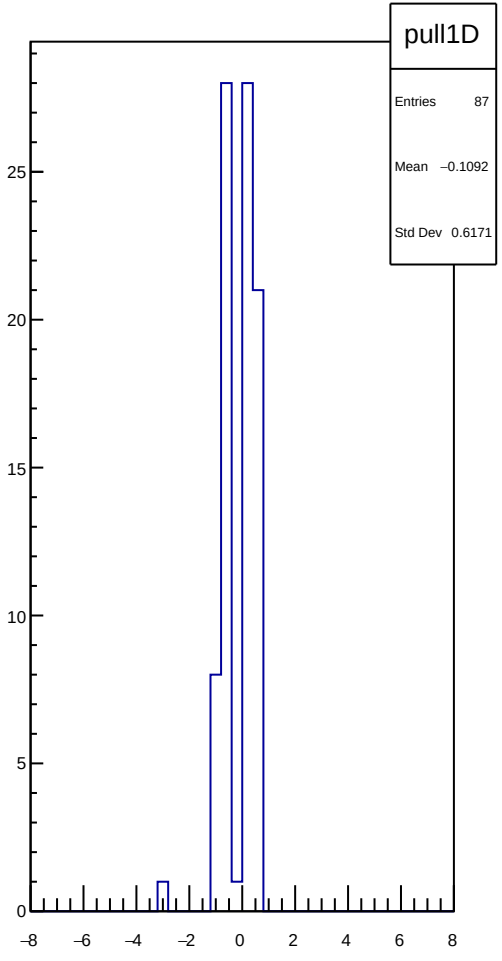

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 72.39 / 86
p0 −13.02 ± 1.05
pull
Entries 87
Mean 158
Std Dev 0

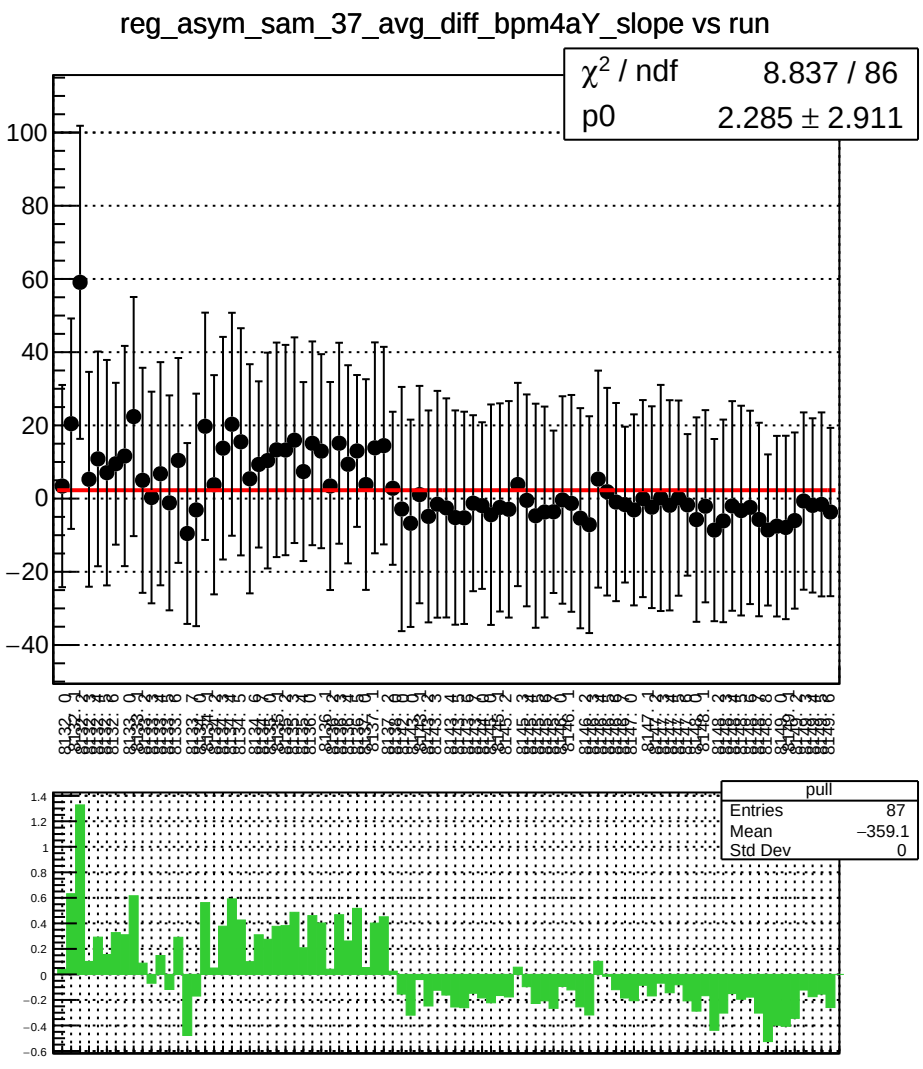

pull1D
Entries 87
Mean −0.1376
Std Dev 0.9017

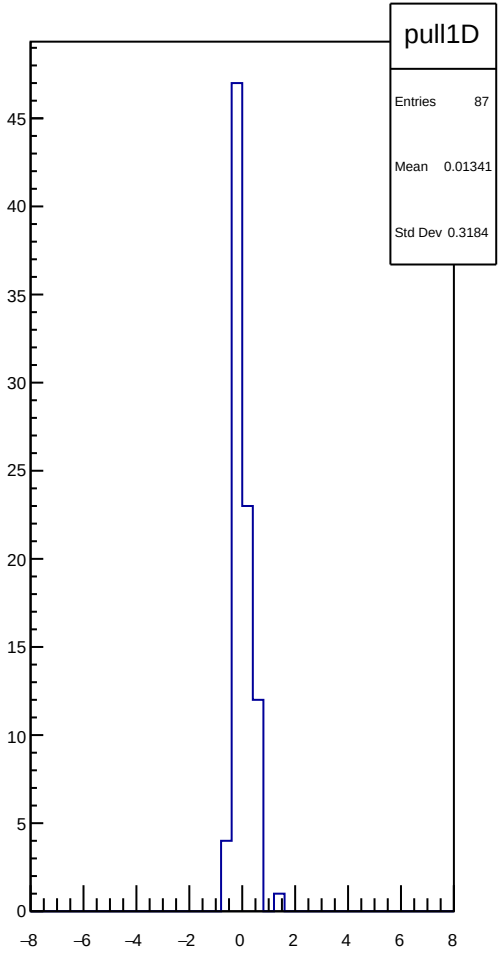

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 114.6 / 86
p0 0.6889 ± 0.04171
pull
Entries 87
Mean 142.4
Std Dev 0

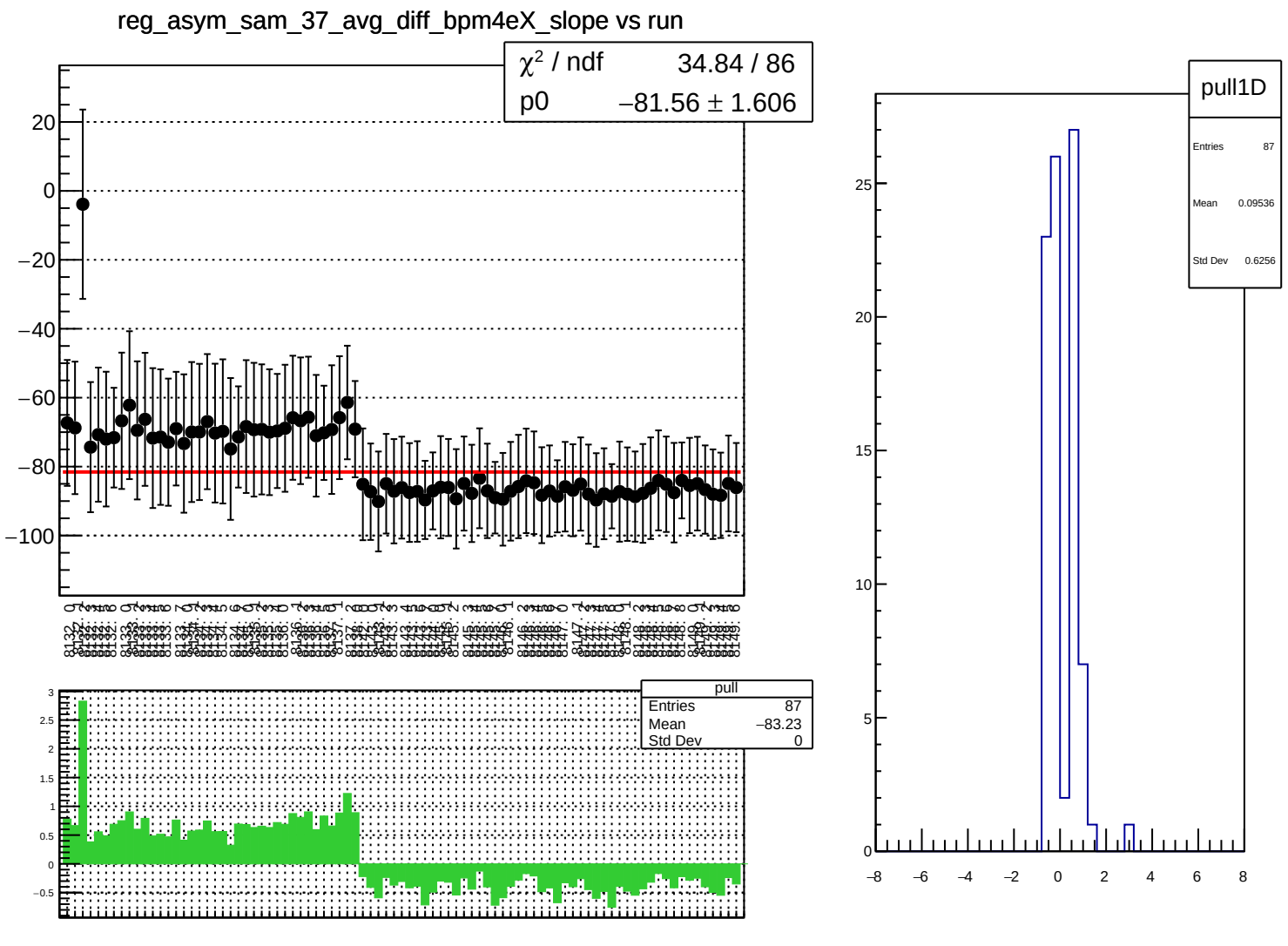

pull1D
Entries 87
Mean −0.2315
Std Dev 1.124

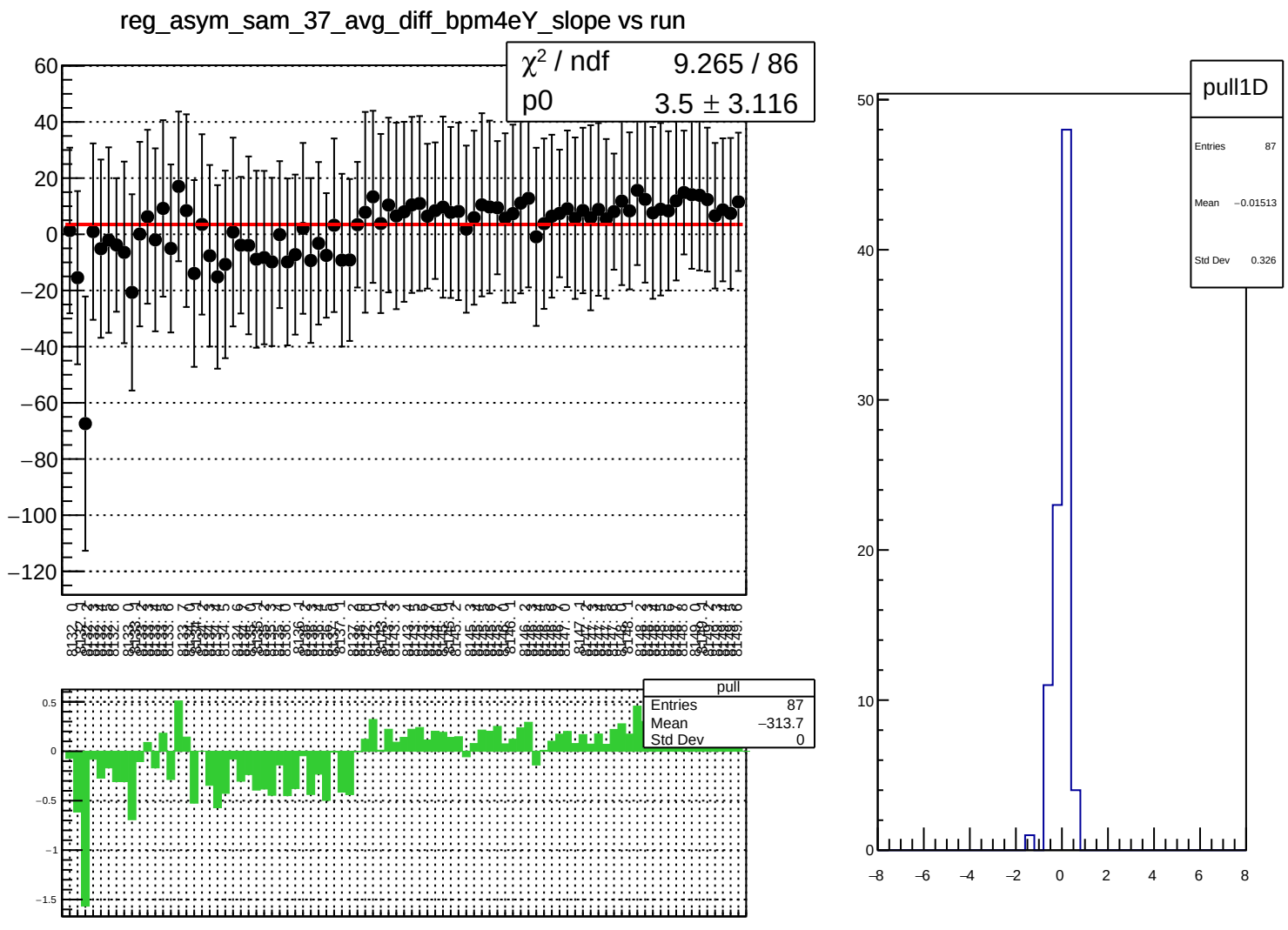

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 34.17 / 86
p0 −10.01 ± 1.617
pull
Entries 87
Mean −64.51
Std Dev 0

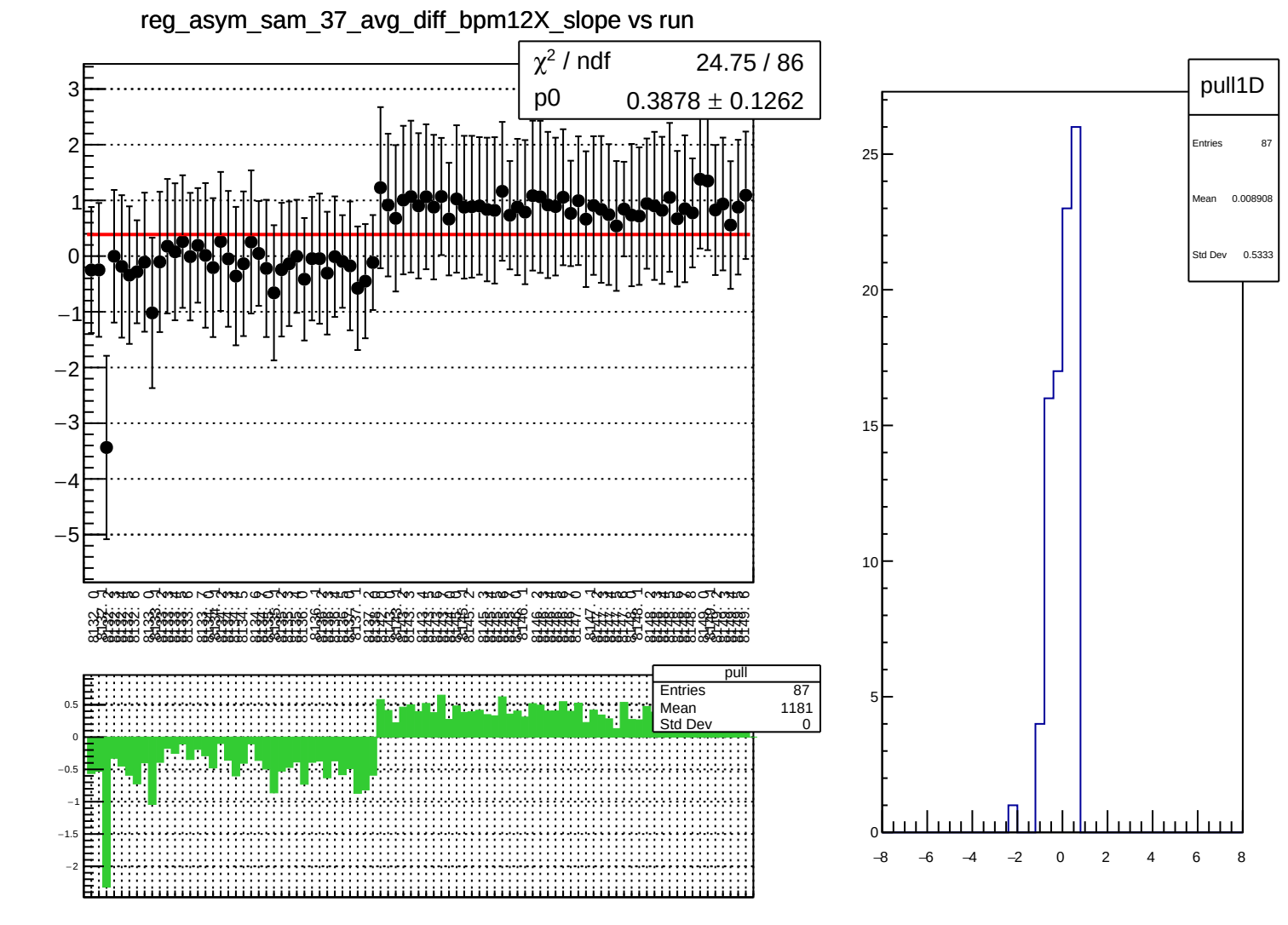

pull1D
Entries 87
Mean −0.1092
Std Dev 0.6171

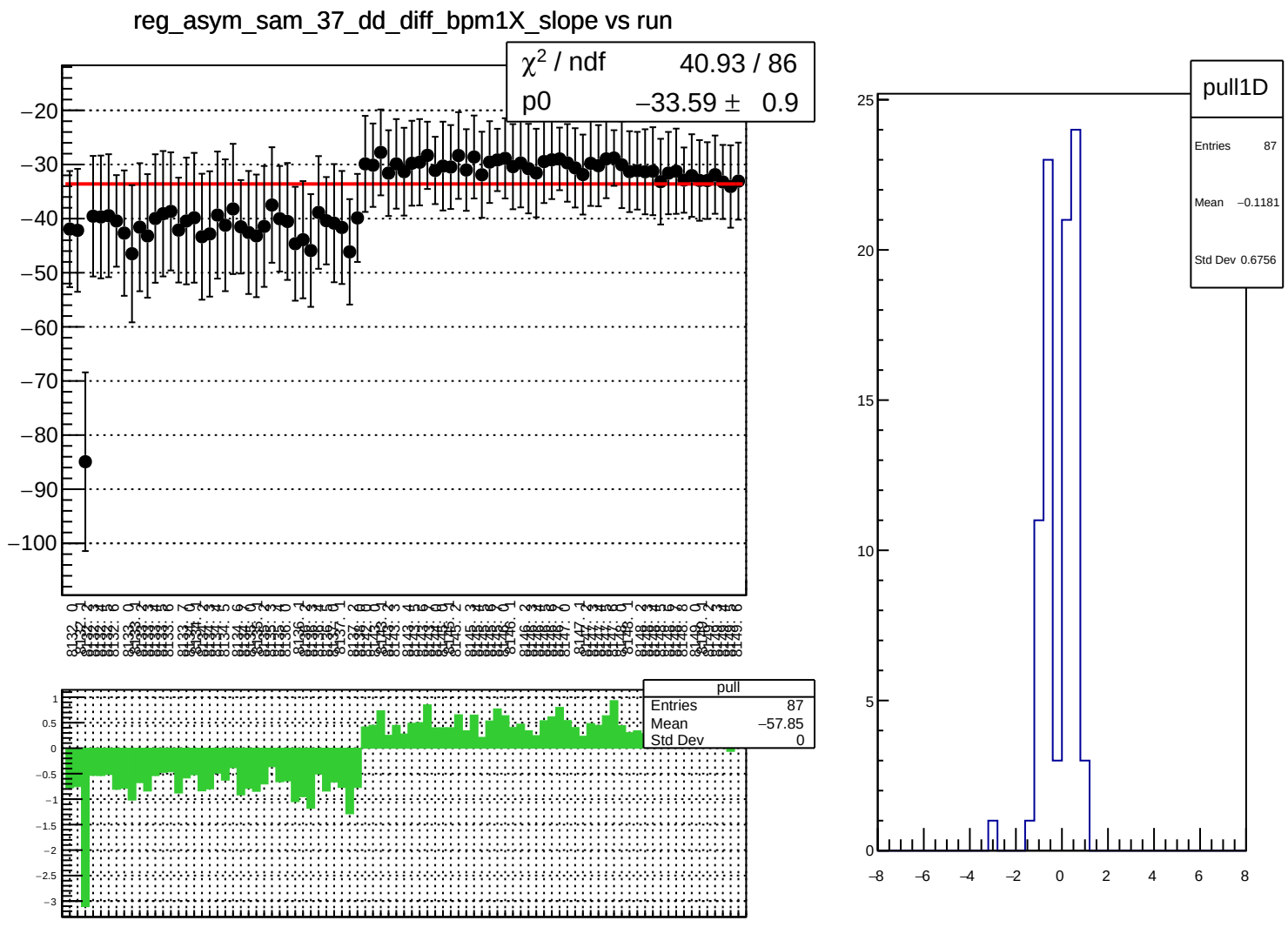

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.837 / 86
p0 2.285 ± 2.911
pull
Entries 87
Mean −359.1
Std Dev 0

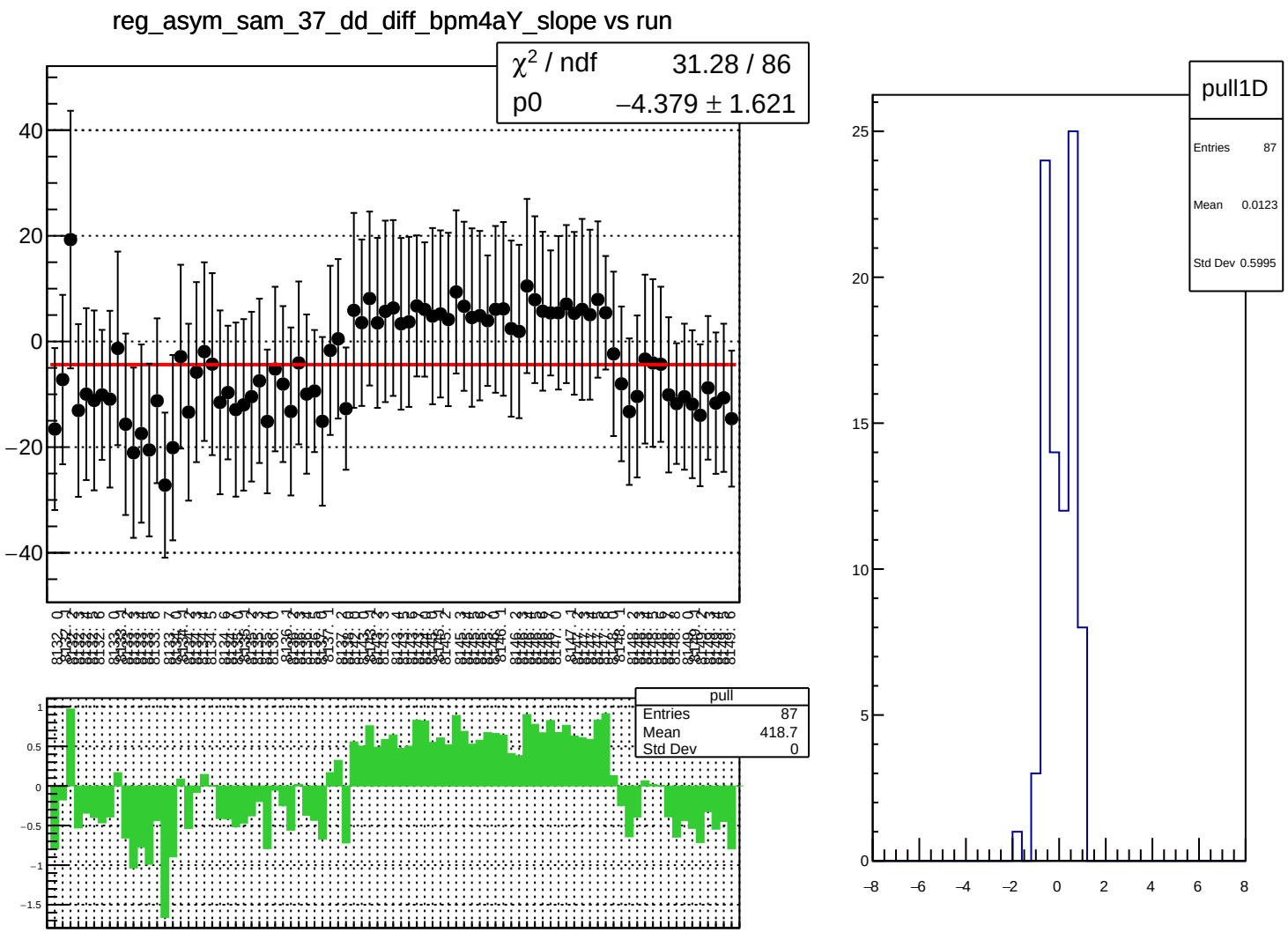

pull1D
Entries 87
Mean 0.01341
Std Dev 0.3184

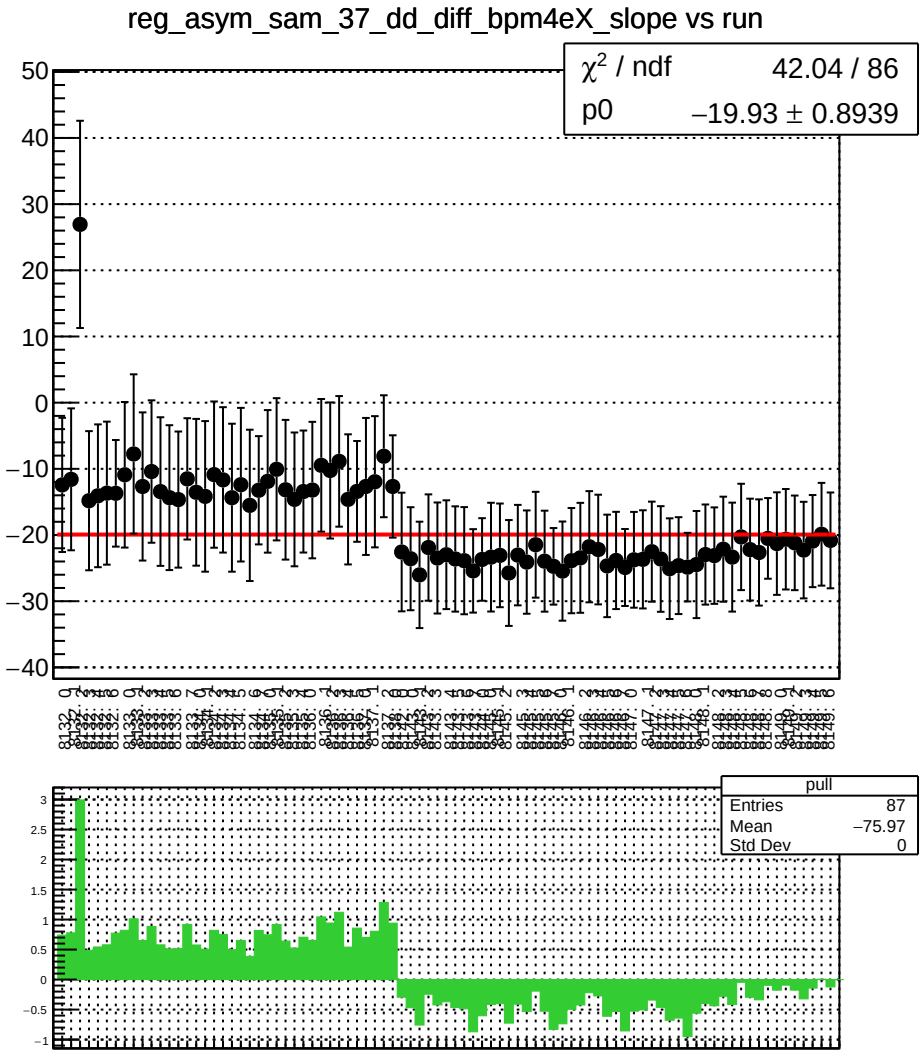

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 34.84 / 86
p0 −81.56 ± 1.606
pull
Entries 87
Mean −83.23
Std Dev 0
pull1D
Entries 87
Mean 0.09536
Std Dev 0.6256

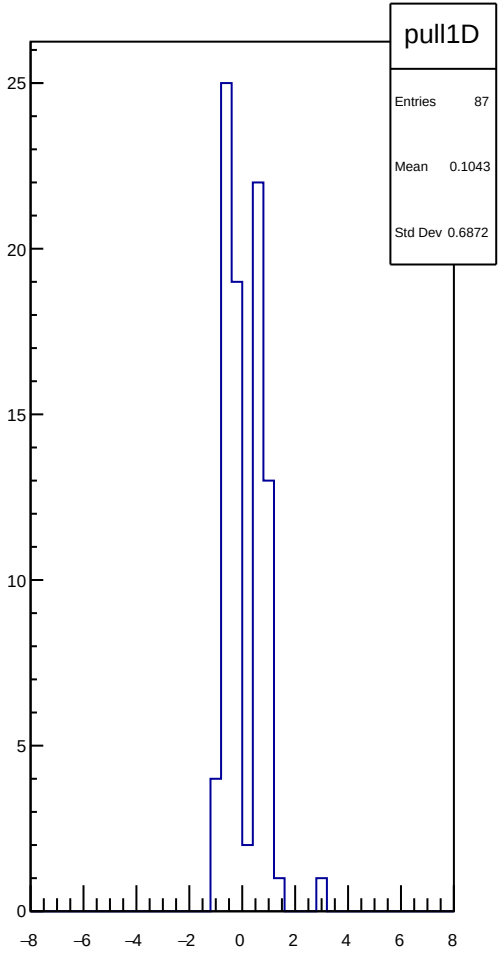

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.265 / 86
p0 3.5 ± 3.116
pull
Entries 87
Mean −313.7
Std Dev 0
pull1D
Entries 87
Mean −0.01513
Std Dev 0.326

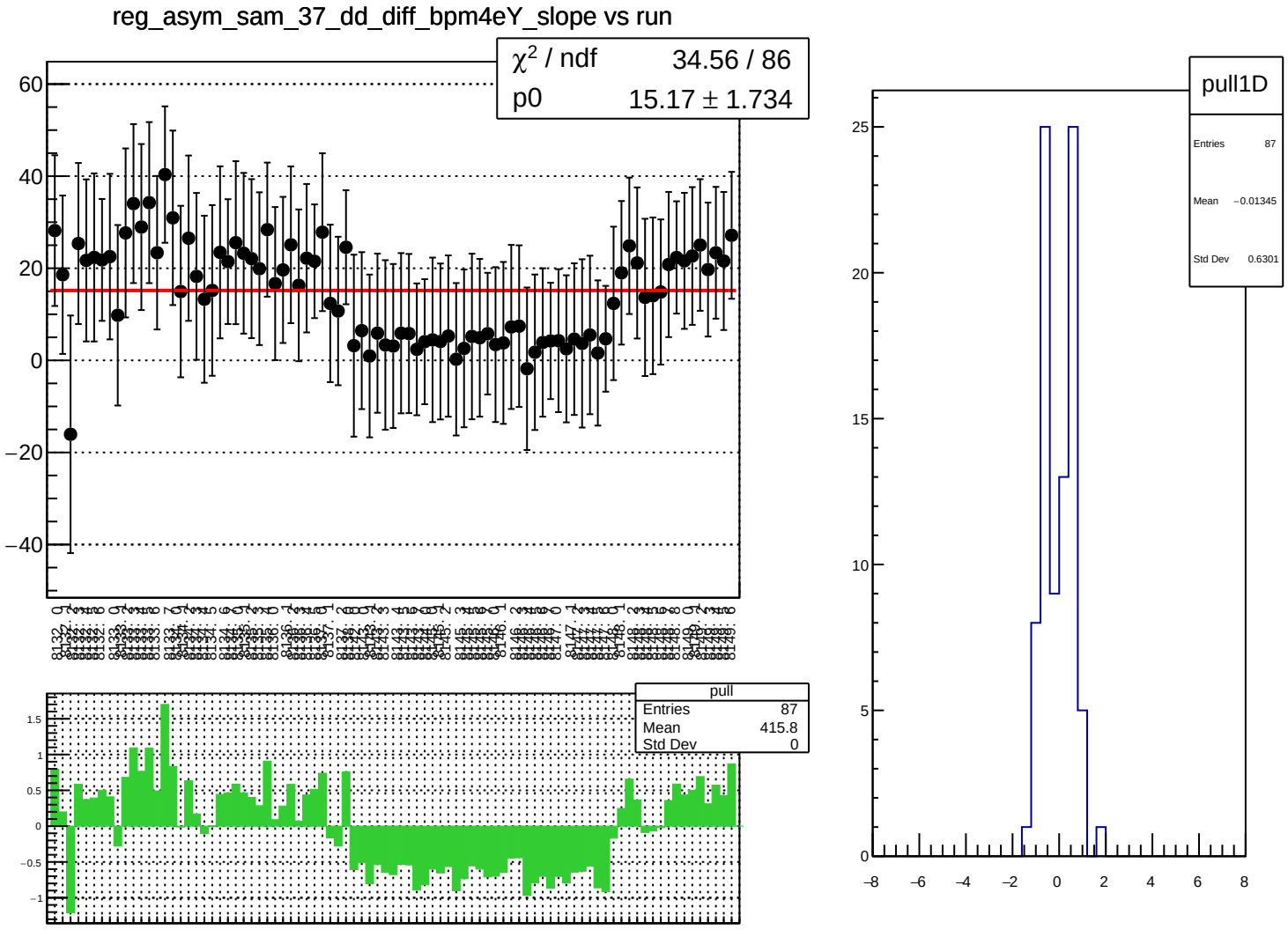

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 24.75 / 86
p0 0.3878 ± 0.1262
pull
Entries 87
Mean 1181
Std Dev 0
pull1D
Entries 87
Mean 0.008908
Std Dev 0.5333

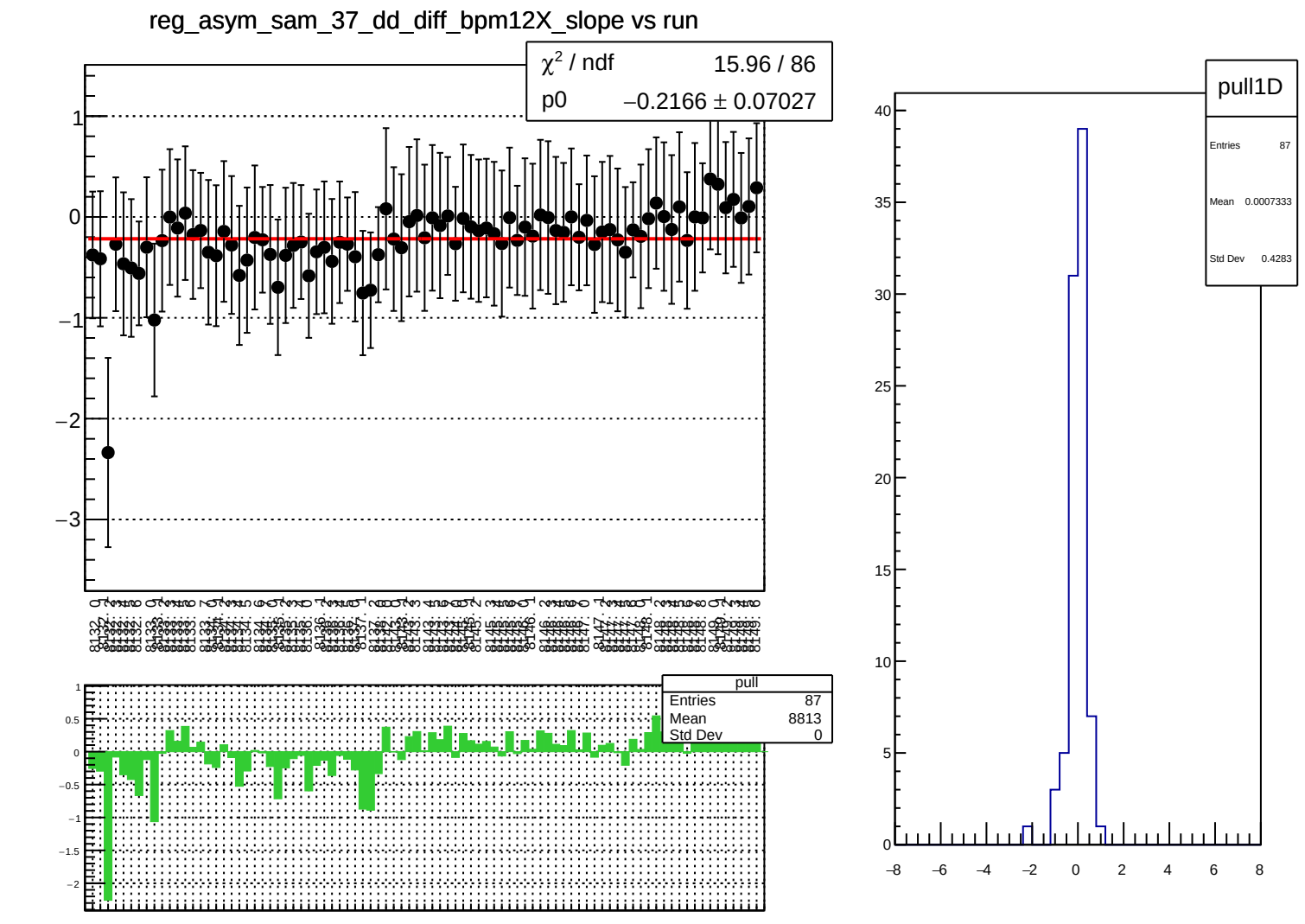

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 40.93 / 86
p0 −33.59 ± 0.9
pull
Entries 87
Mean −57.85
Std Dev 0
pull1D
Entries 87
Mean −0.1181
Std Dev 0.6756

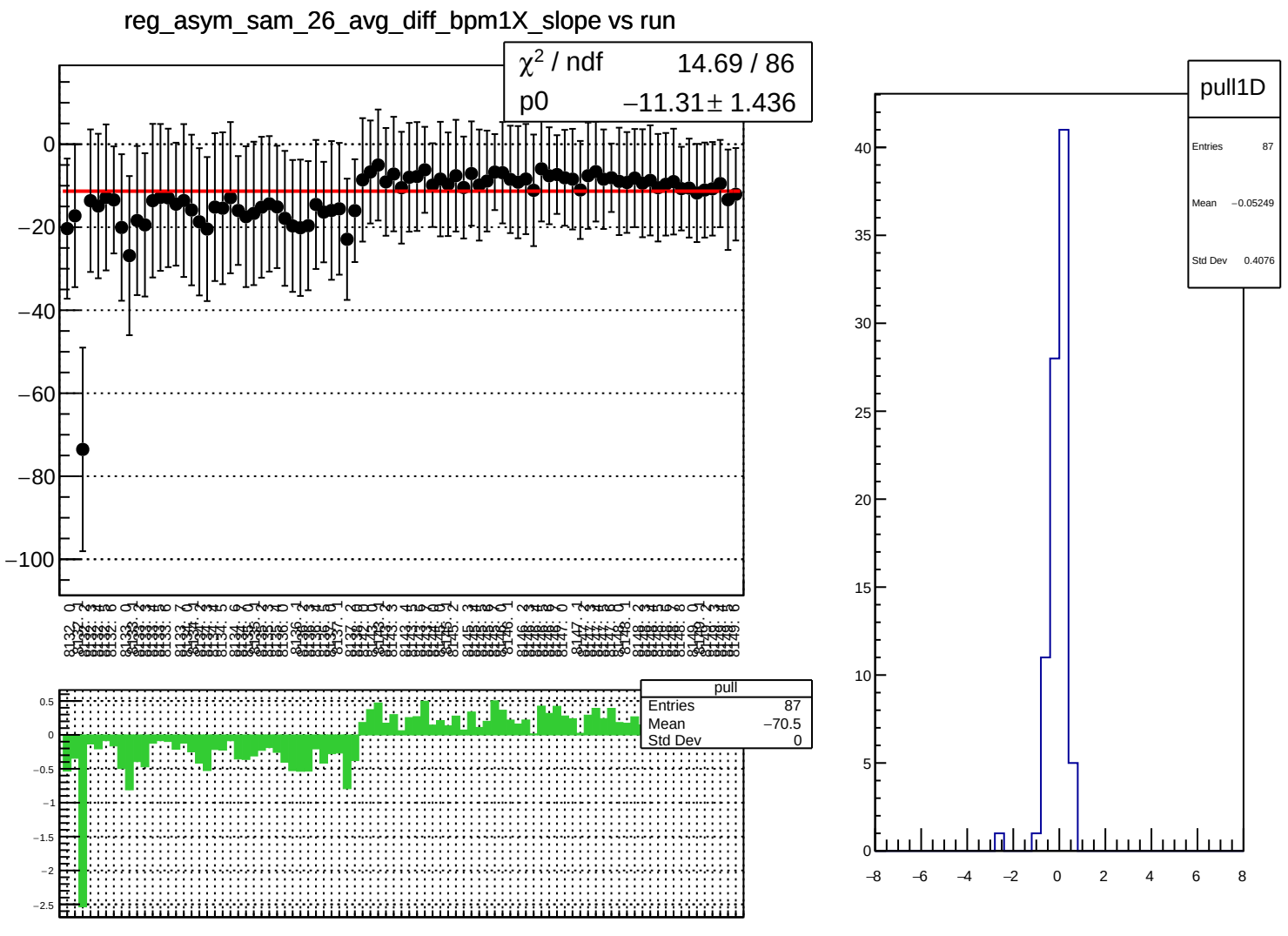

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 31.28 / 86
p0 −4.379 ± 1.621
pull
Entries 87
Mean 418.7
Std Dev 0
pull1D
Entries 87
Mean 0.0123
Std Dev 0.5995

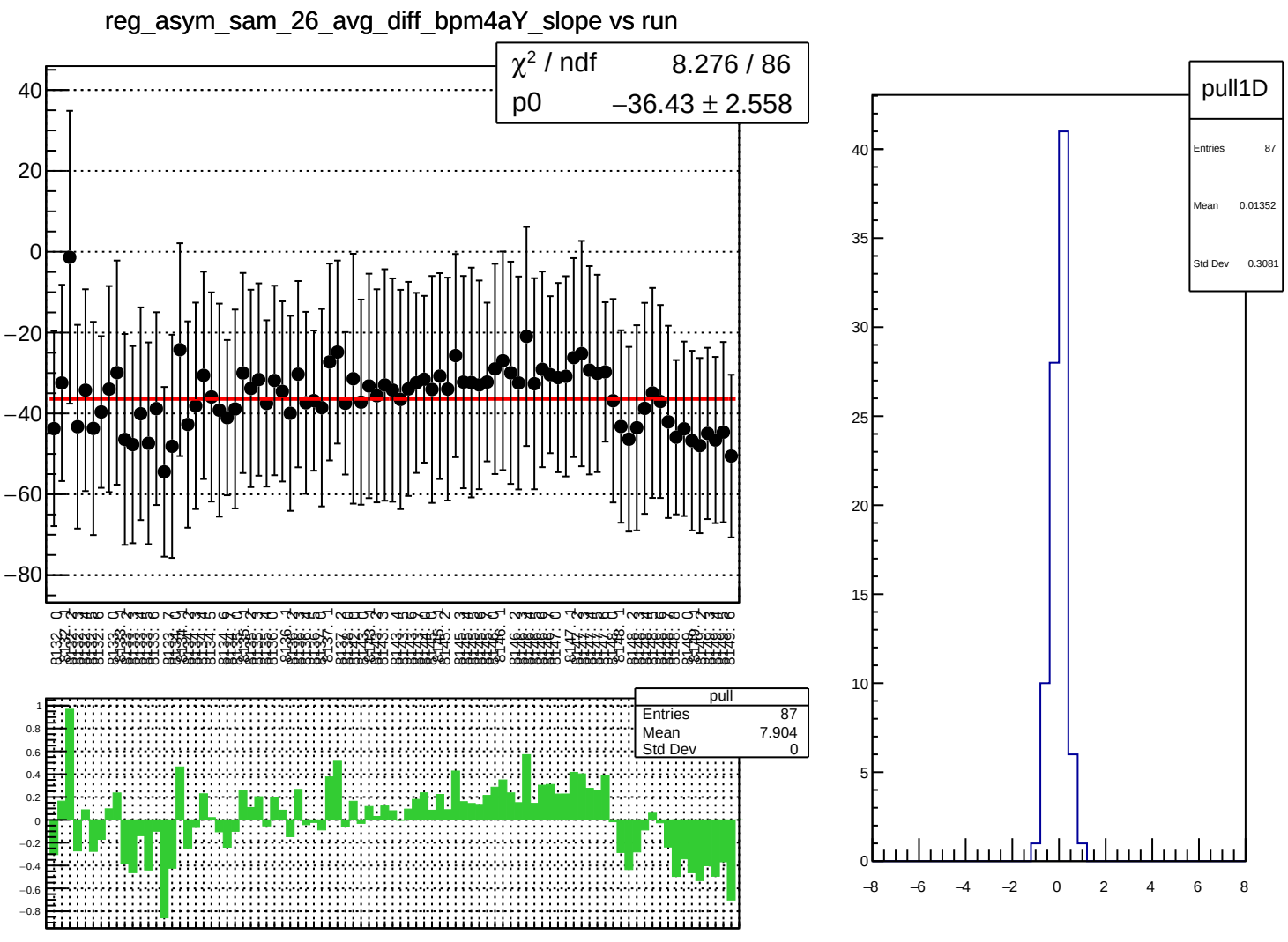

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 42.04 / 86
p0 −19.93 ± 0.8939
pull
Entries 87
Mean −75.97
Std Dev 0

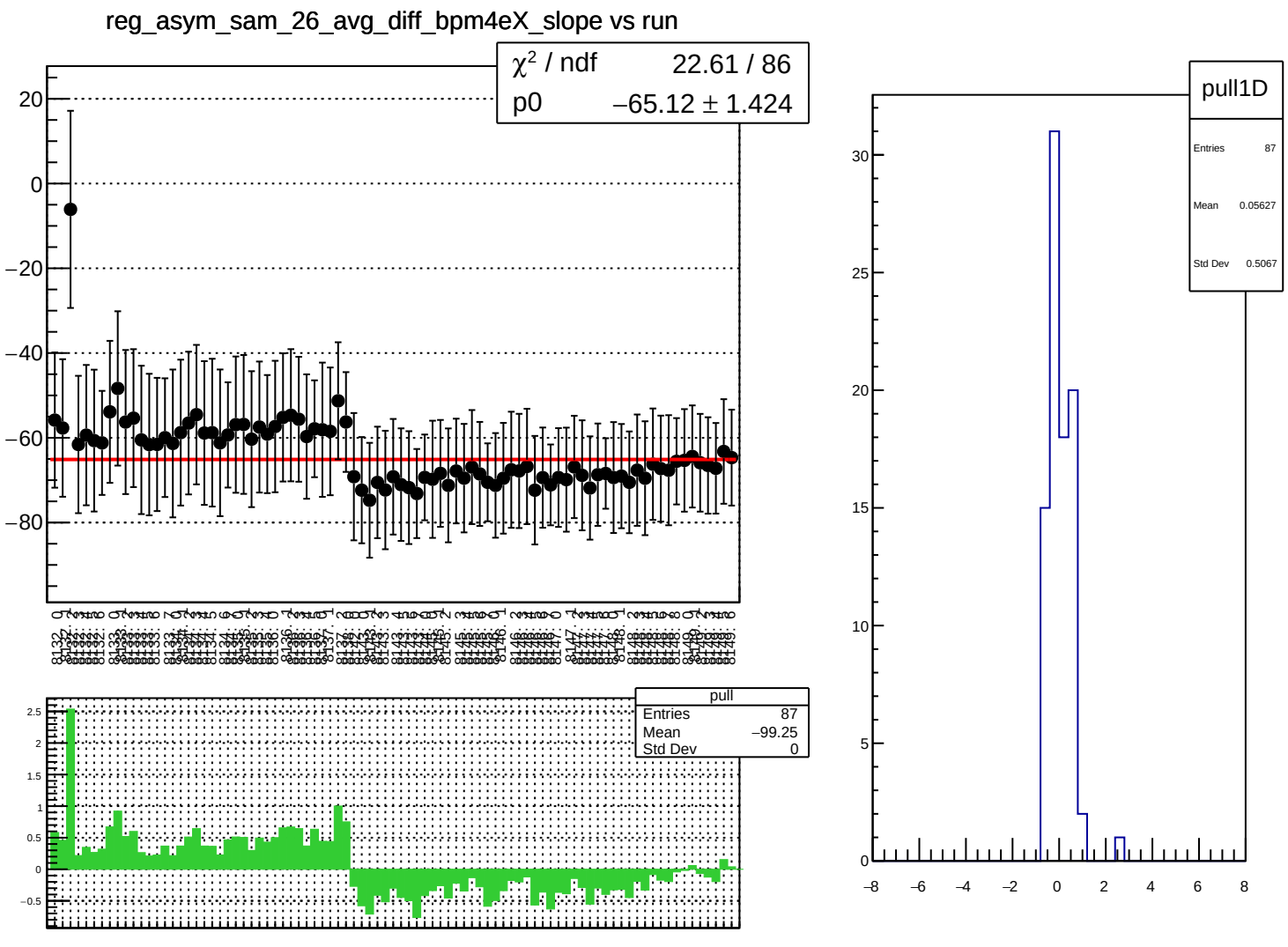

pull1D
Entries 87
Mean 0.1043
Std Dev 0.6872

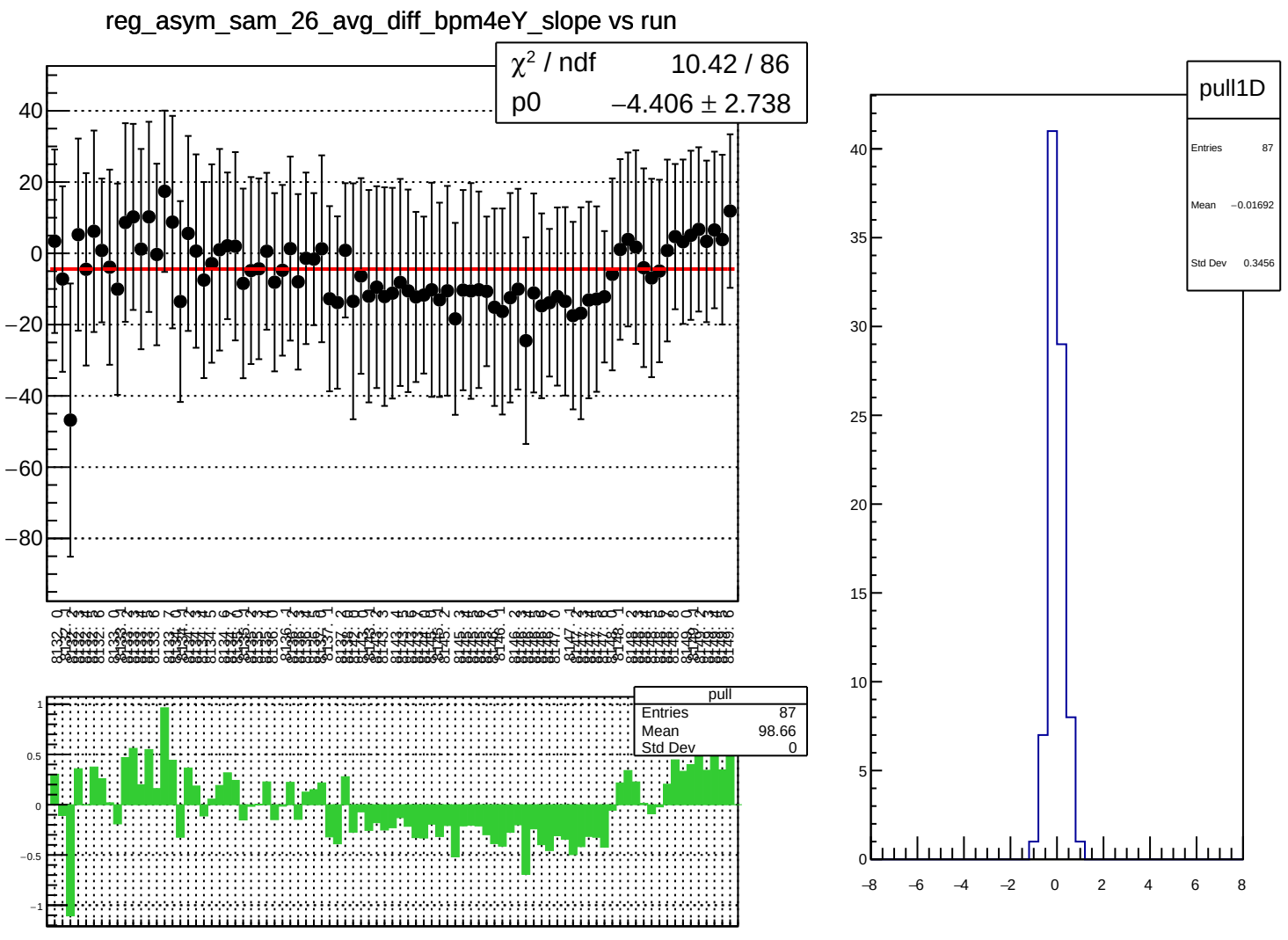

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 34.56 / 86
p0 15.17 ± 1.734
pull
Entries 87
Mean 415.8
Std Dev 0
pull1D
Entries 87
Mean −0.01345
Std Dev 0.6301

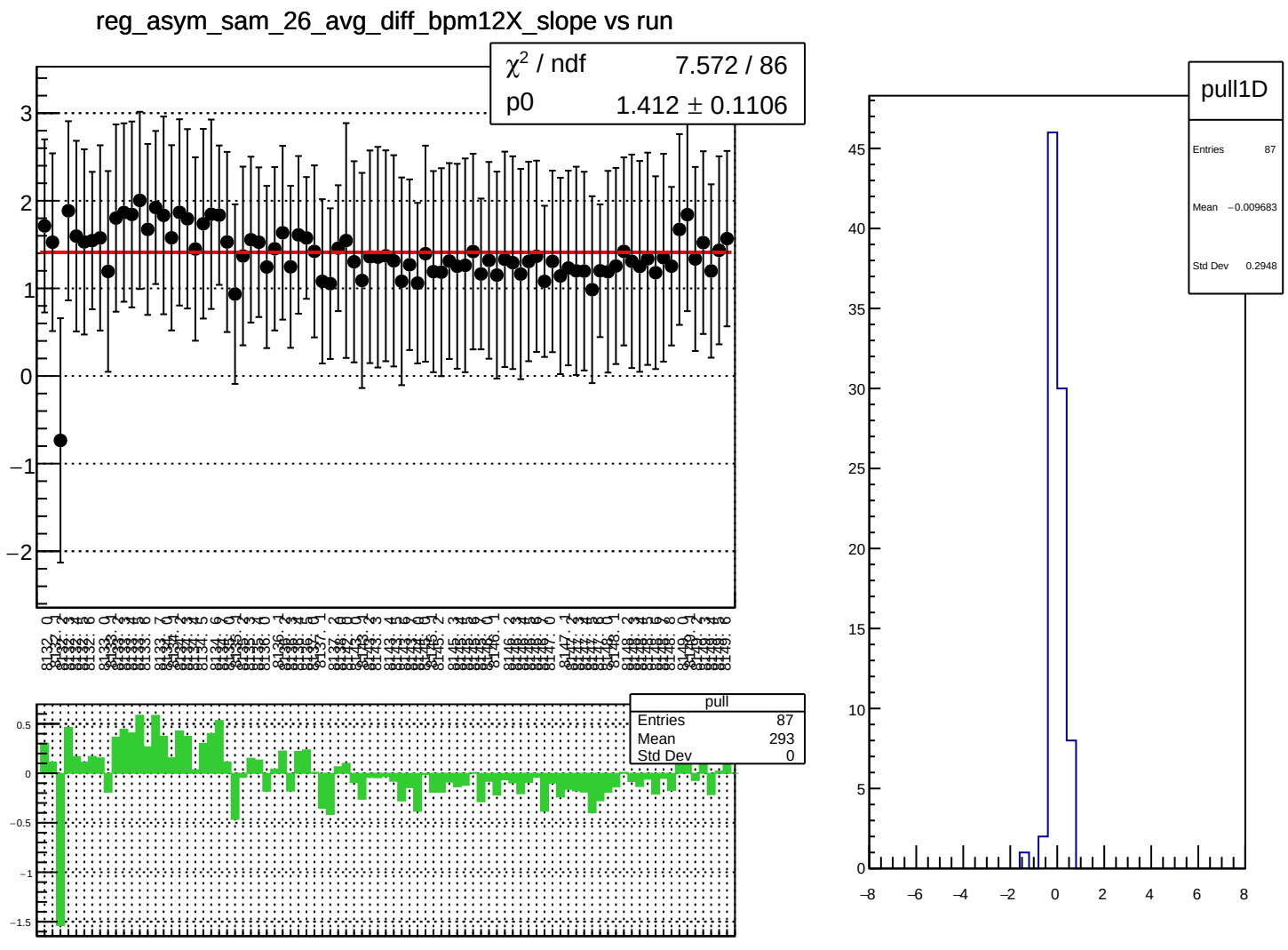

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 15.96 / 86
p0 −0.2166 ± 0.07027
pull
Entries 87
Mean 8813
Std Dev 0
pull1D
Entries 87
Mean 0.0007333
Std Dev 0.4283

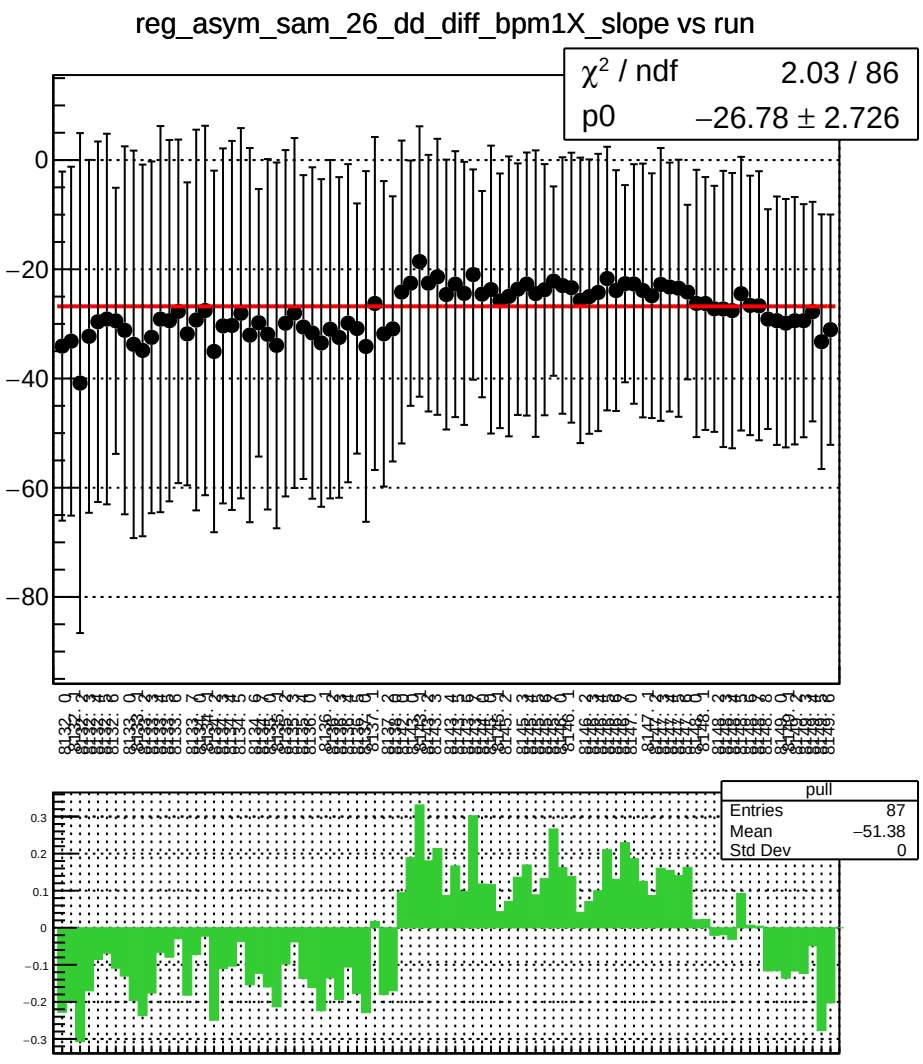

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 14.69 / 86
p0 −11.31 ± 1.436
pull
Entries 87
Mean −70.5
Std Dev 0
pull1D
Entries 87
Mean −0.05249
Std Dev 0.4076

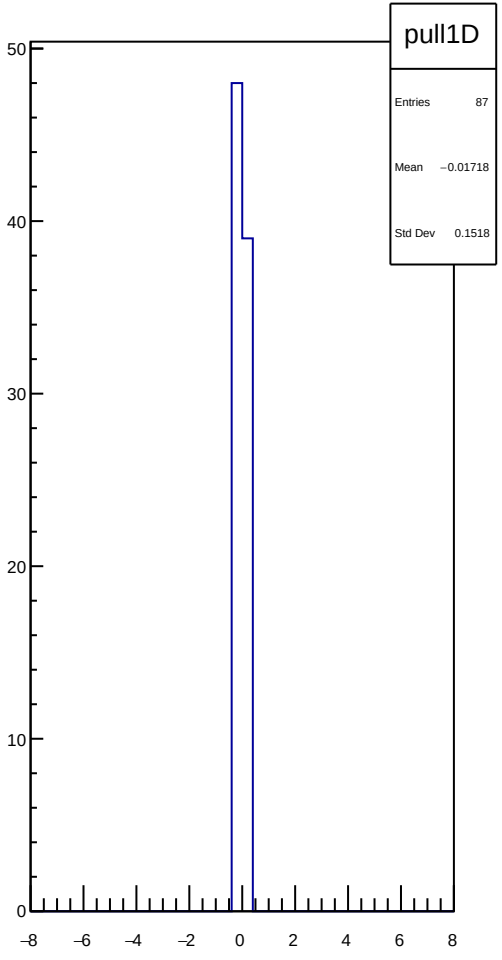

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.276 / 86
p0 −36.43 ± 2.558
pull
Entries 87
Mean 7.904
Std Dev 0
pull1D
Entries 87
Mean 0.01352
Std Dev 0.3081

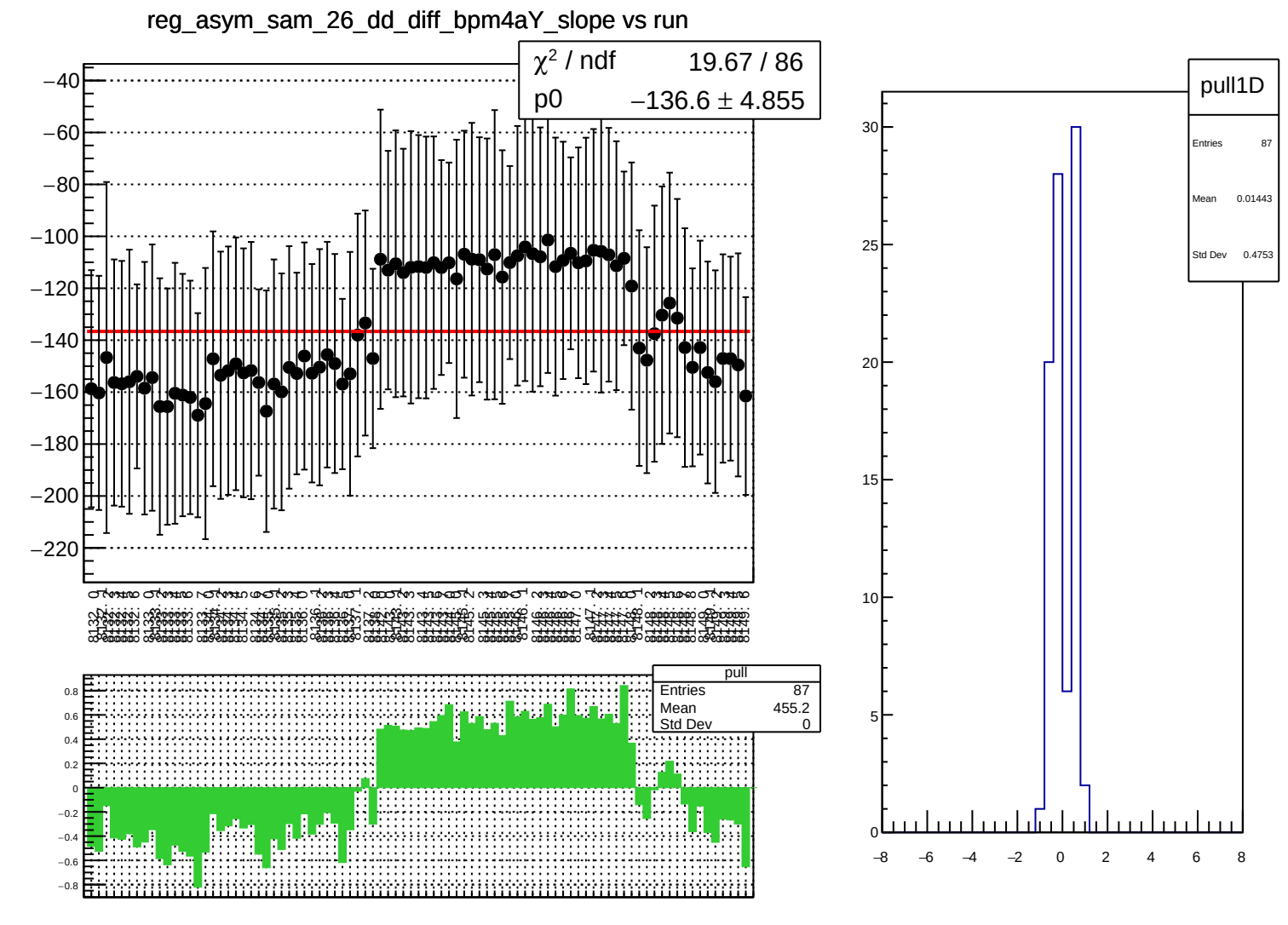

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 22.61 / 86
p0 −65.12 ± 1.424
pull
Entries 87
Mean −99.25
Std Dev 0
pull1D
Entries 87
Mean 0.05627
Std Dev 0.5067

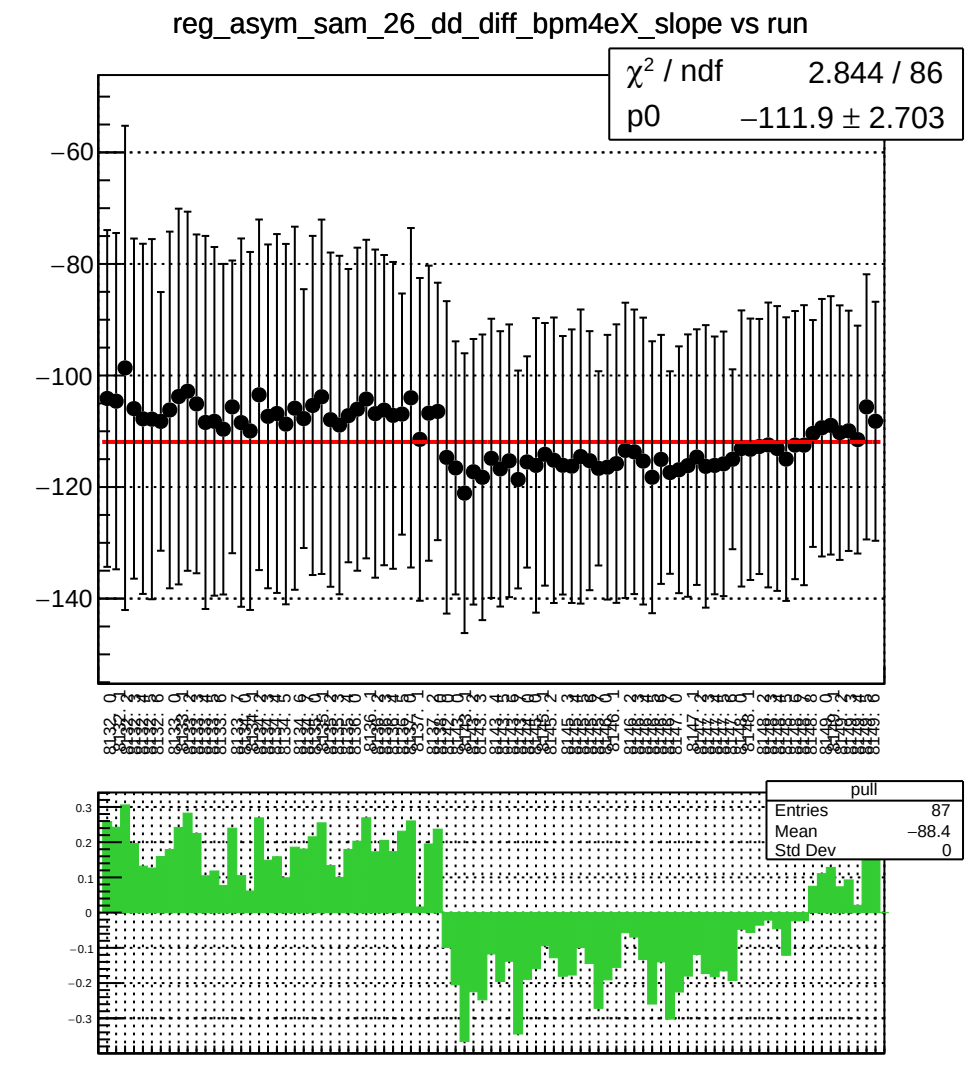

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 10.42 / 86
p0 −4.406 ± 2.738
pull
Entries 87
Mean 98.66
Std Dev 0
pull1D
Entries 87
Mean −0.01692
Std Dev 0.3456

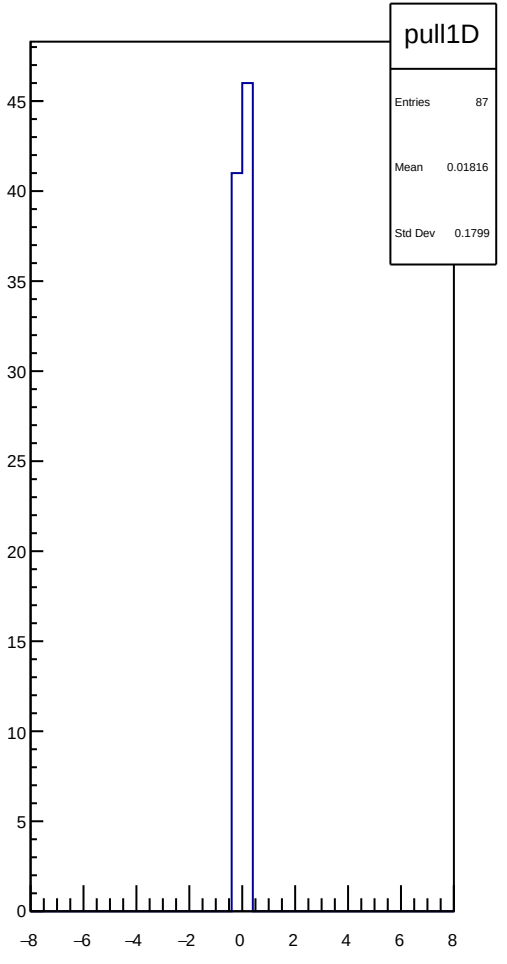

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 7.572 / 86
p0 1.412 ± 0.1106
pull
Entries 87
Mean 293
Std Dev 0
pull1D
Entries 87
Mean −0.009683
Std Dev 0.2948

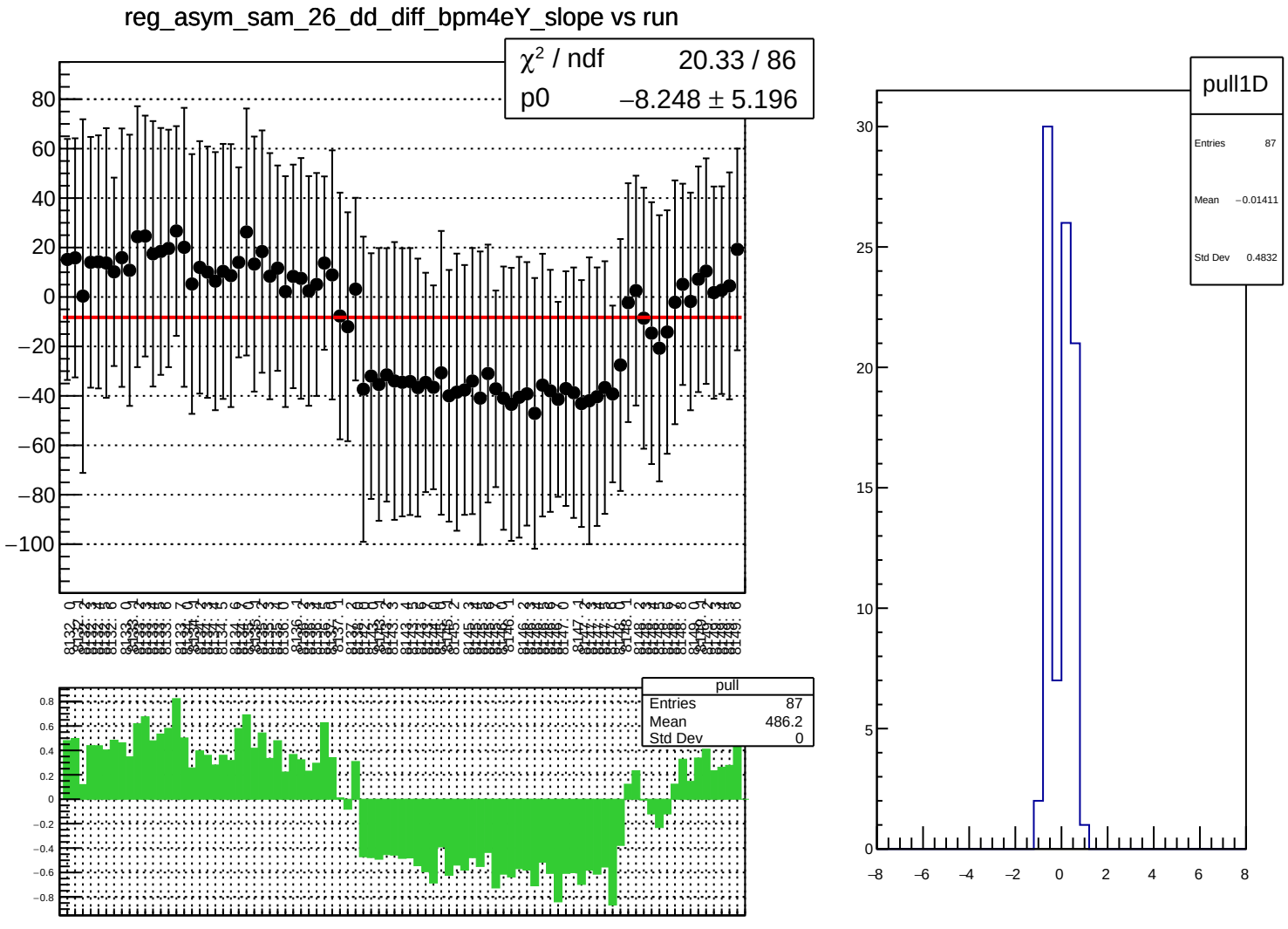

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 2.03 / 86
p0 −26.78 ± 2.726
pull
Entries 87
Mean −51.38
Std Dev 0

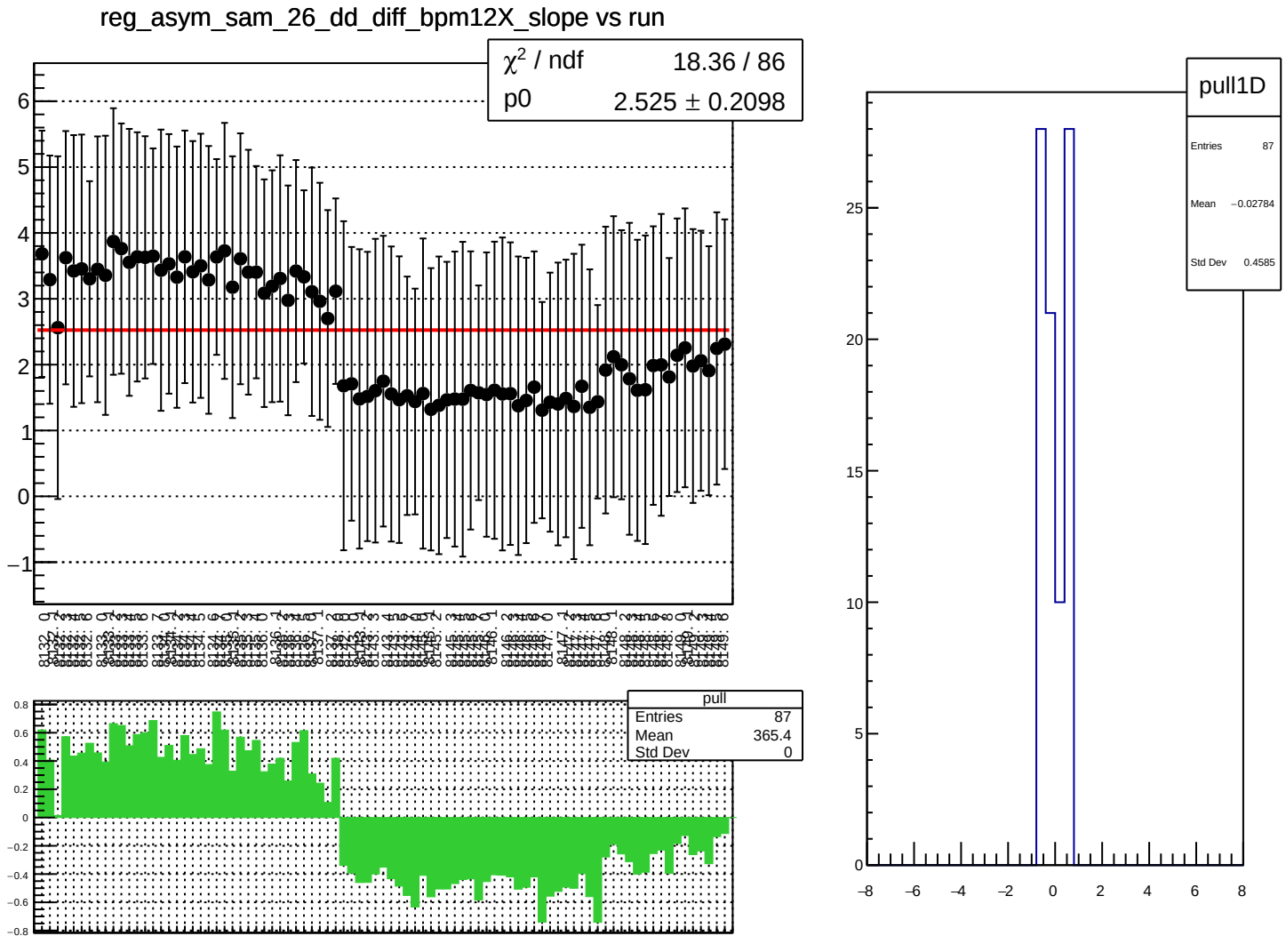

pull1D
Entries 87
Mean −0.01718
Std Dev 0.1518

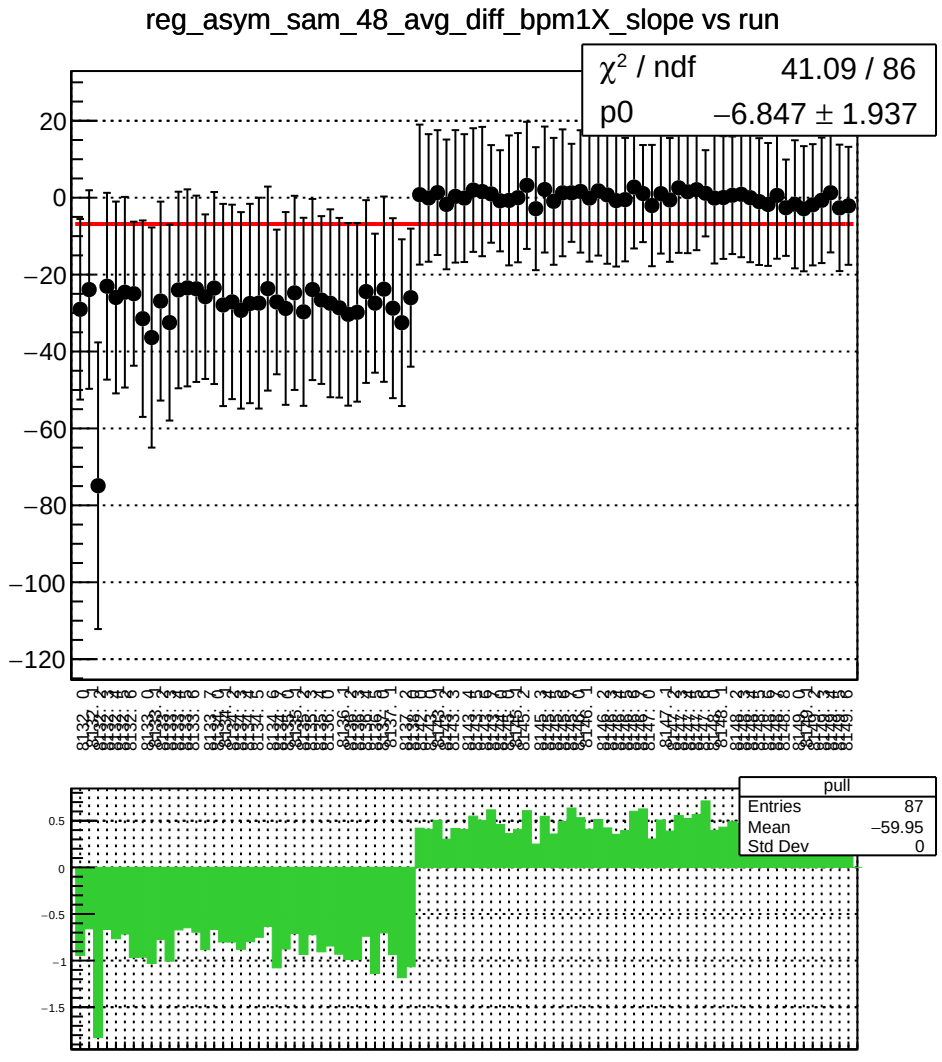

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 19.67 / 86
p0 −136.6 ± 4.855
pull
Entries 87
Mean 455.2
Std Dev 0
pull1D
Entries 87
Mean 0.01443
Std Dev 0.4753

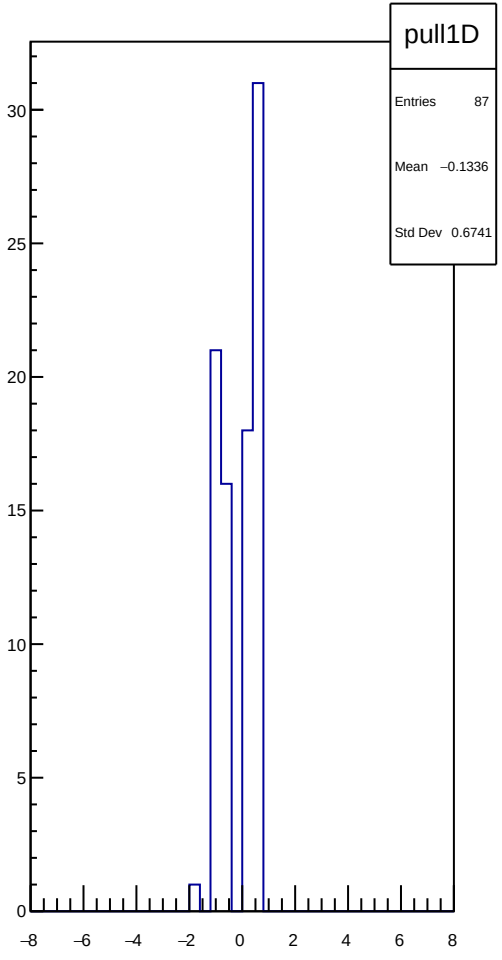

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.844 / 86
p0 −111.9 ± 2.703
−60
−80
−100
−120
−140
pull
Entries 87
Mean −88.4
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

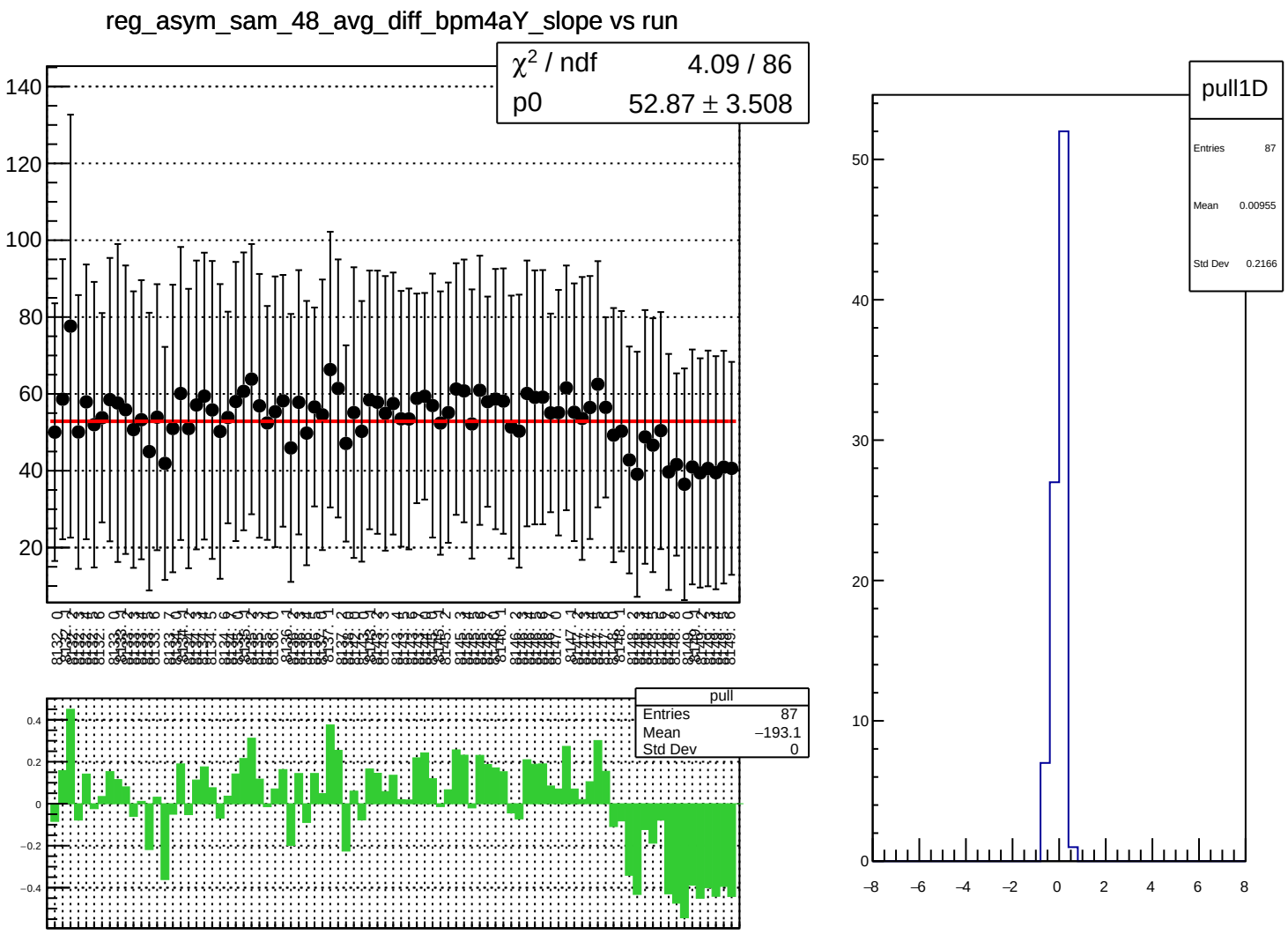

pull1D
Entries 87
Mean 0.01816
Std Dev 0.1799
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

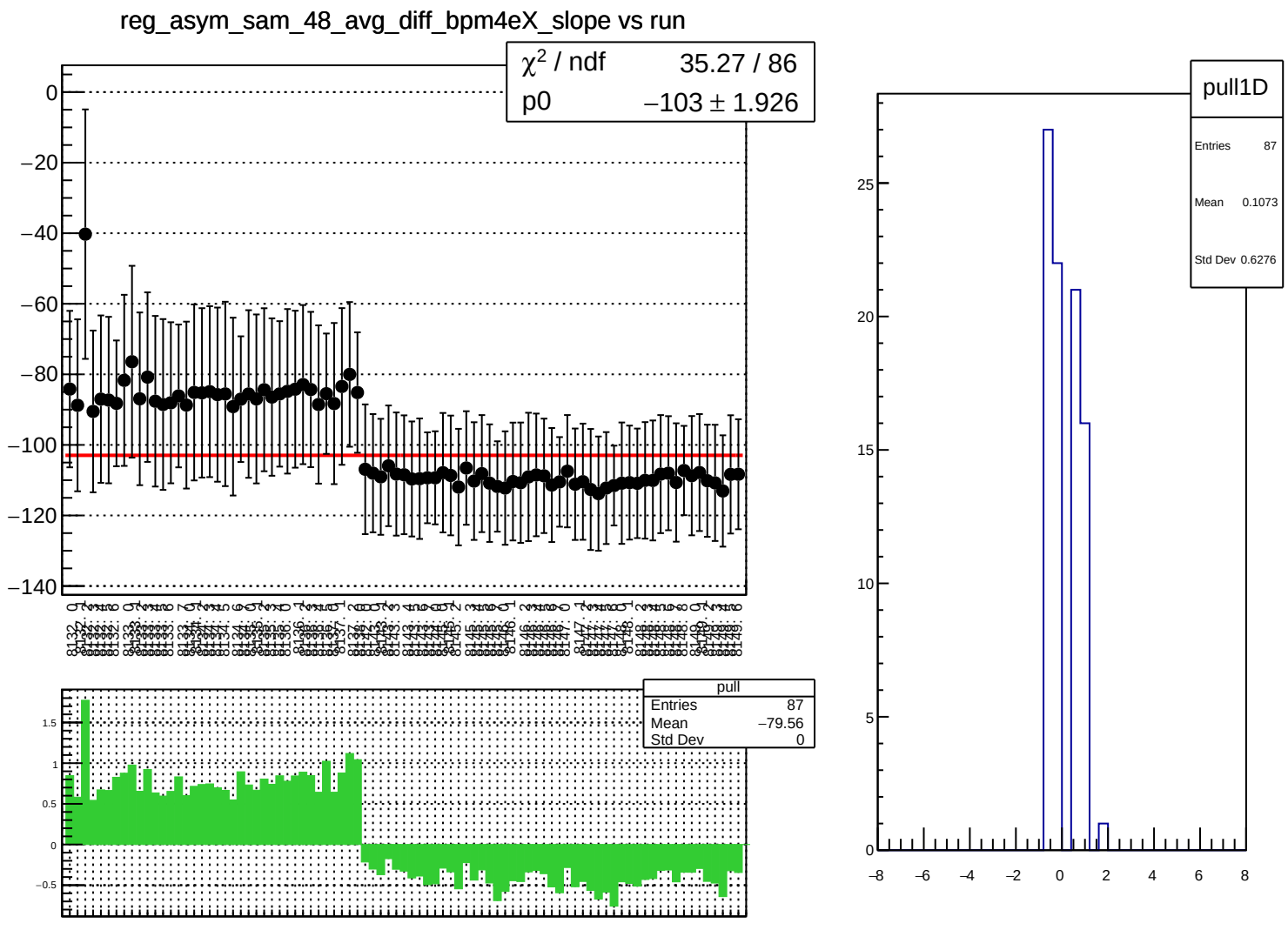

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 20.33 / 86
p0 −8.248 ± 5.196
pull
Entries 87
Mean 486.2
Std Dev 0
pull1D
Entries 87
Mean −0.01411
Std Dev 0.4832

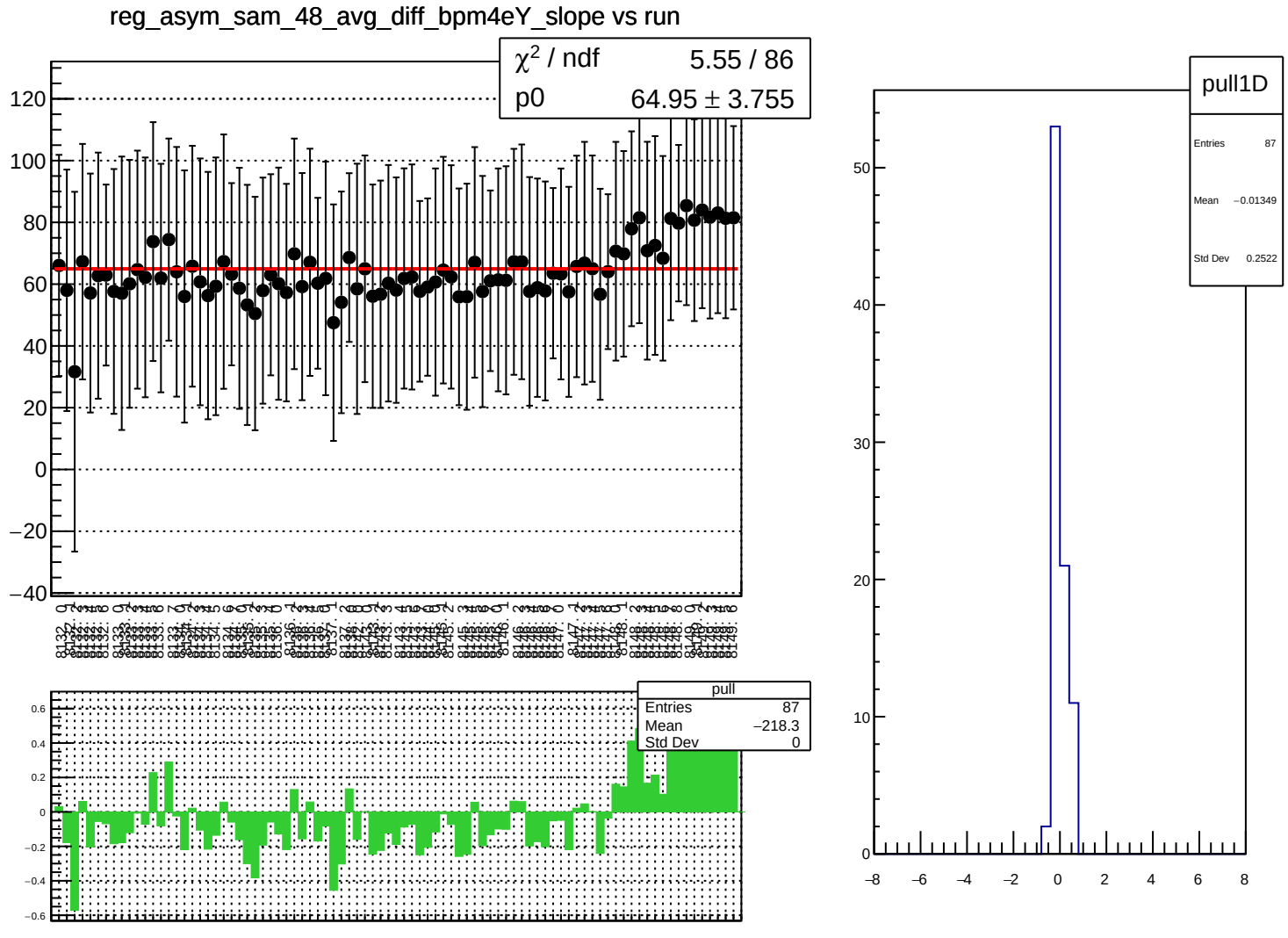

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 18.36 / 86
p0 2.525 ± 0.2098
pull
Entries 87
Mean 365.4
Std Dev 0
pull1D
Entries 87
Mean −0.02784
Std Dev 0.4585

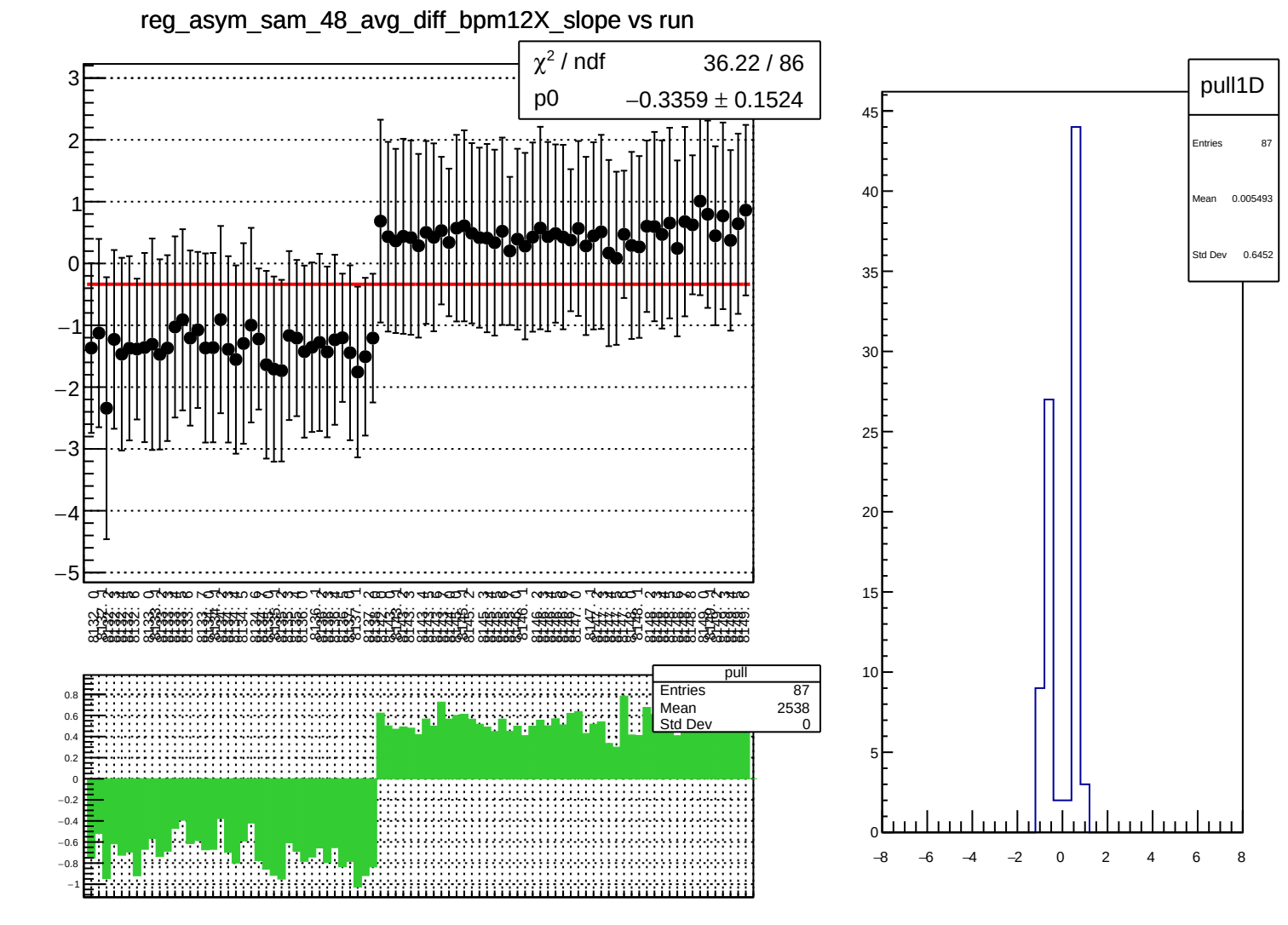

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 41.09 / 86
p0 −6.847 ± 1.937
pull
Entries 87
Mean −59.95
Std Dev 0

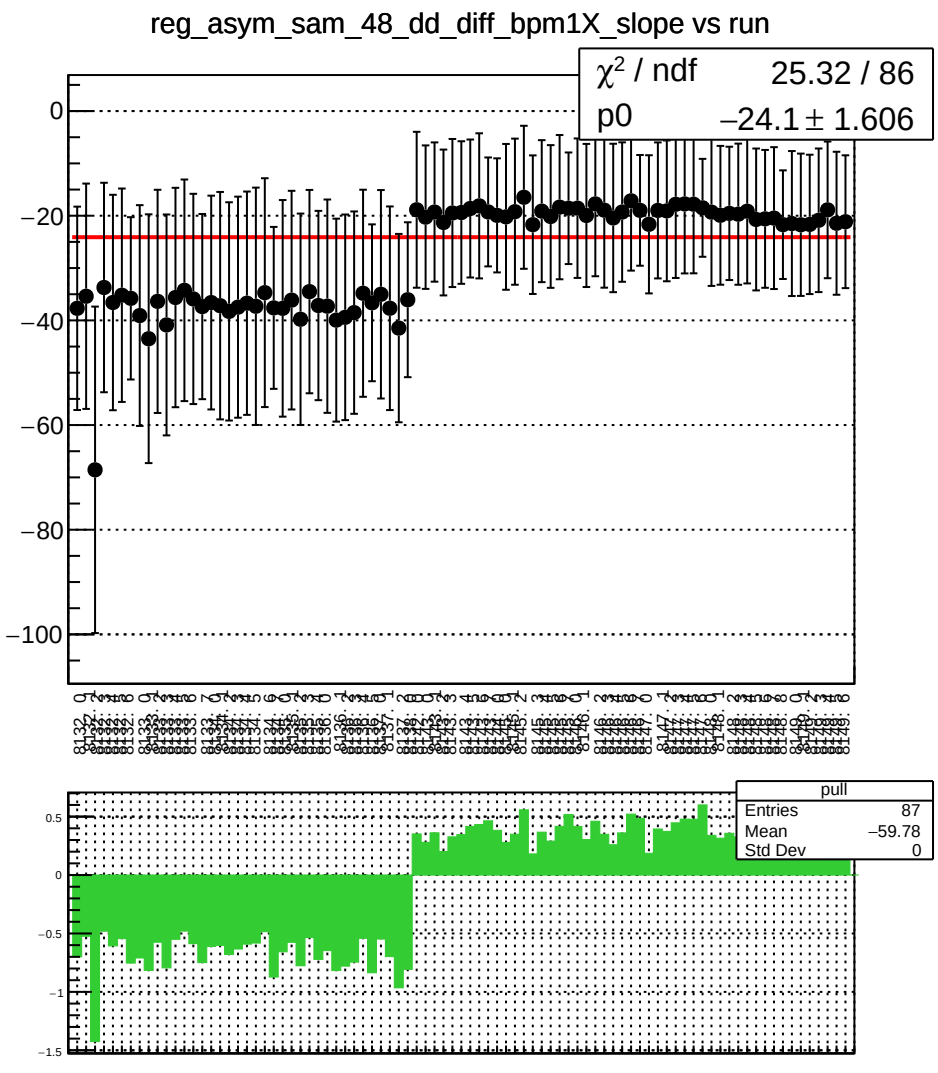

pull1D
Entries 87
Mean −0.1336
Std Dev 0.6741

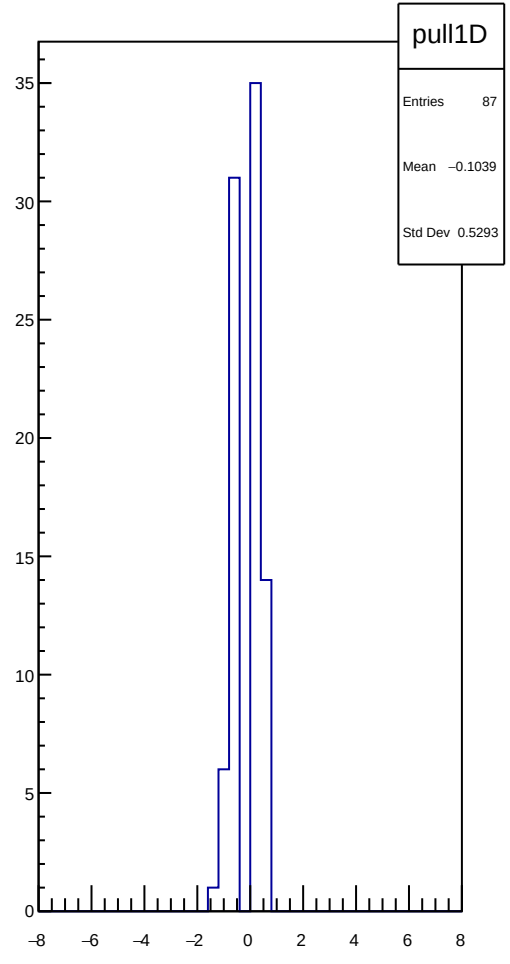

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.09 / 86
p0 52.87 ± 3.508
pull
Entries 87
Mean −193.1
Std Dev 0
pull1D
Entries 87
Mean 0.00955
Std Dev 0.2166

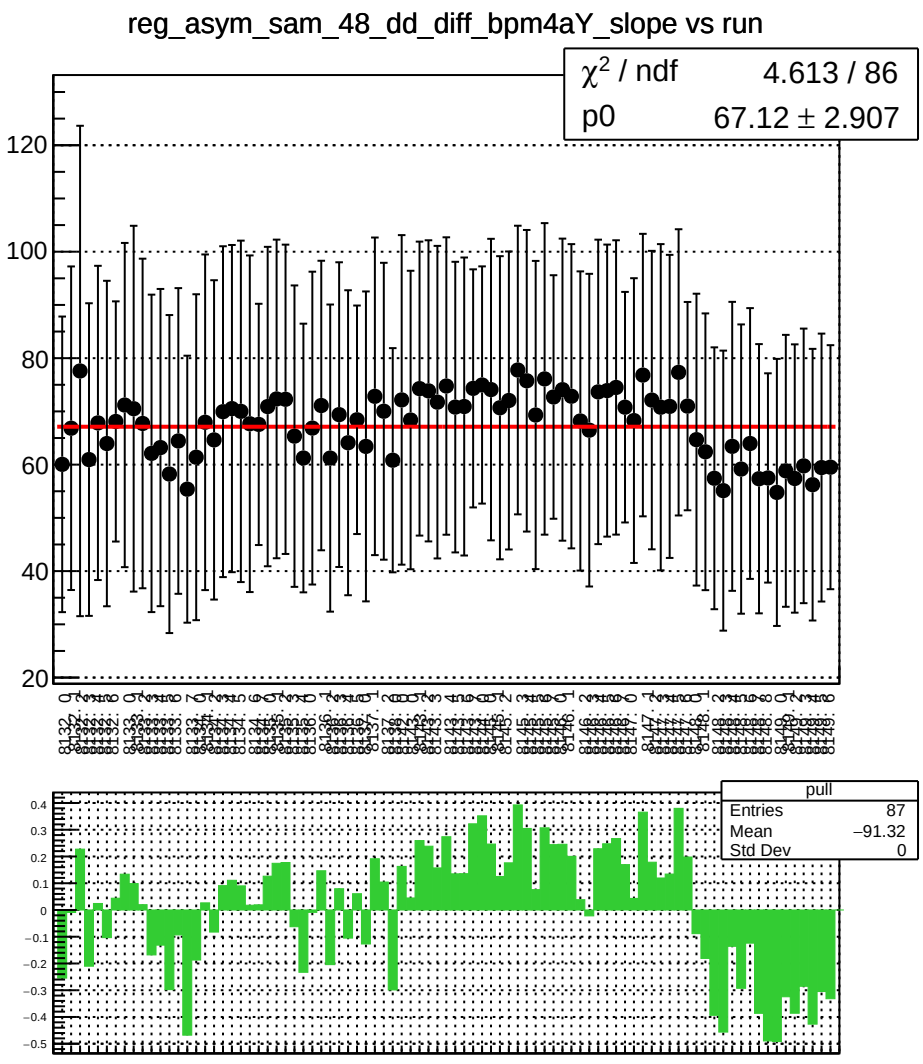

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 35.27 / 86
p0 −103 ± 1.926
pull
Entries 87
Mean −79.56
Std Dev 0
pull1D
Entries 87
Mean 0.1073
Std Dev 0.6276

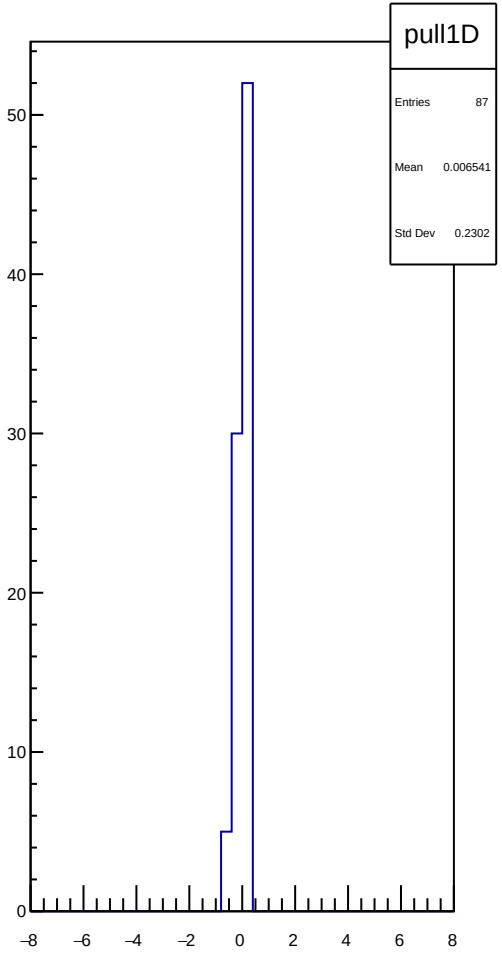

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.55 / 86
p0 64.95 ± 3.755
pull
Entries 87
Mean −218.3
Std Dev 0
pull1D
Entries 87
Mean −0.01349
Std Dev 0.2522

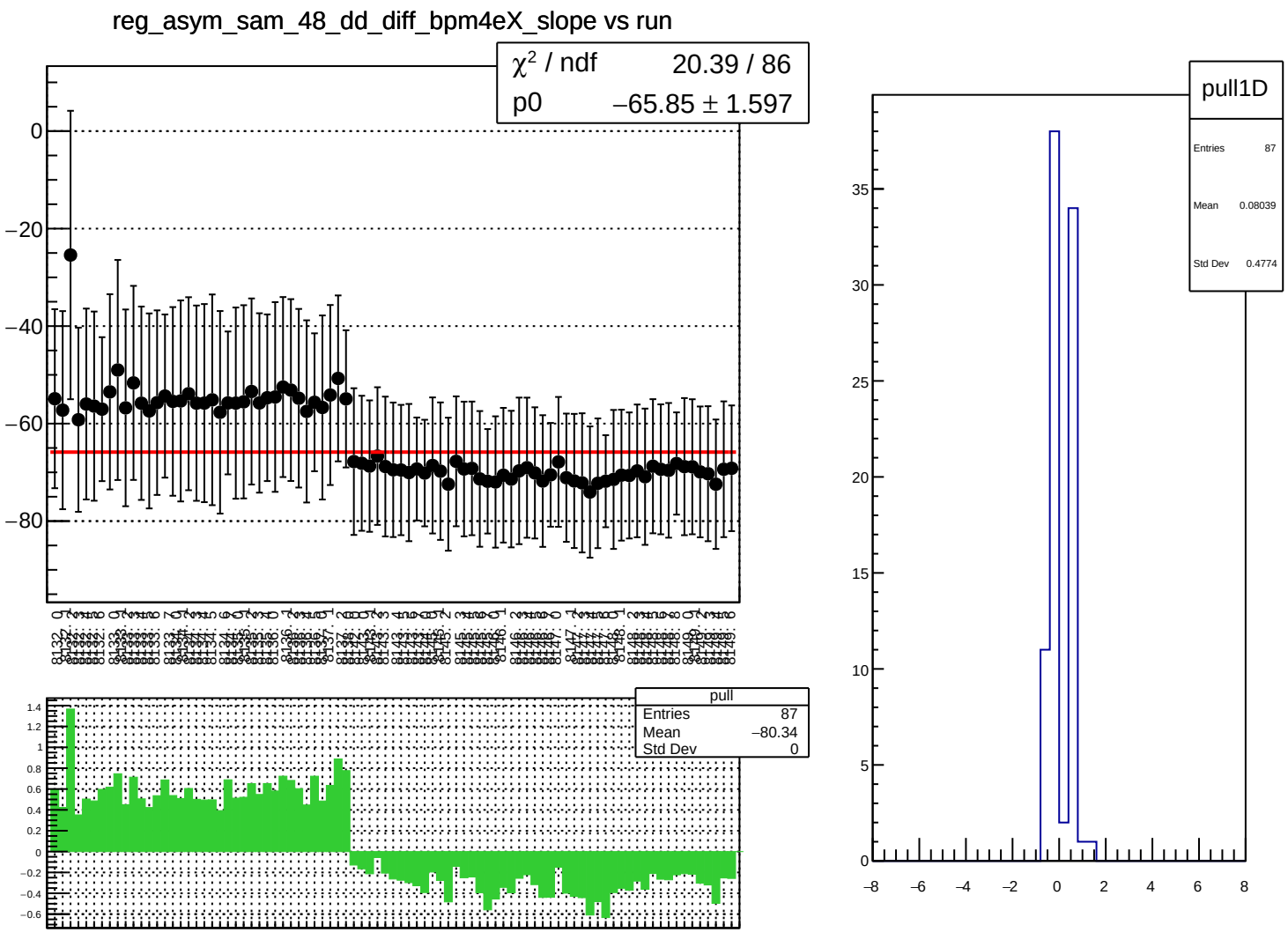

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 36.22 / 86
p0 −0.3359 ± 0.1524
pull
Entries 87
Mean 2538
Std Dev 0
pull1D
Entries 87
Mean 0.005493
Std Dev 0.6452

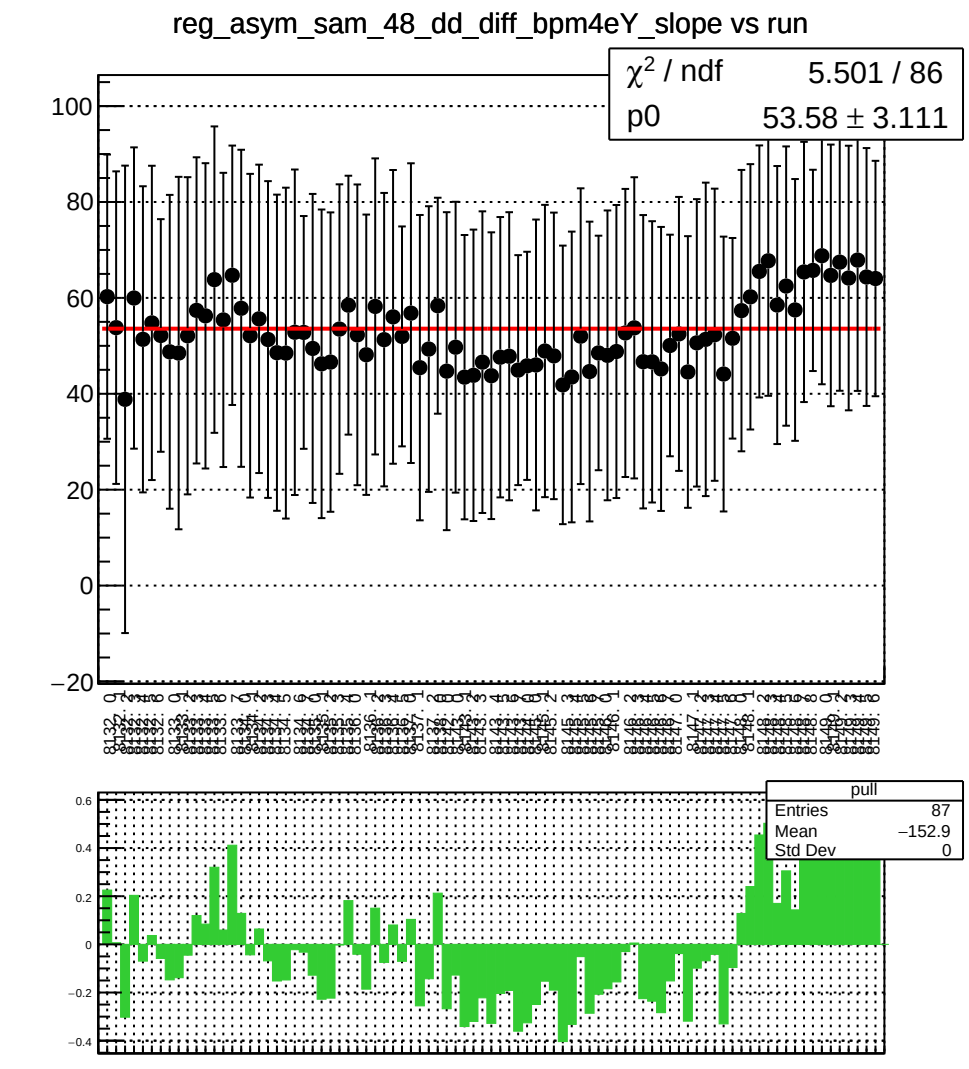

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 25.32 / 86
p0 −24.1 ± 1.606
pull
Entries 87
Mean −59.78
Std Dev 0

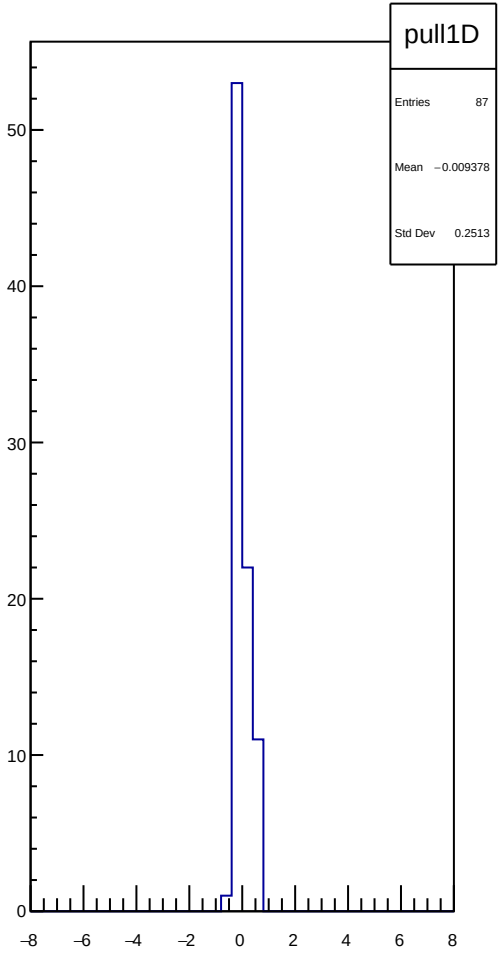

pull1D
Entries 87
Mean −0.1039
Std Dev 0.5293

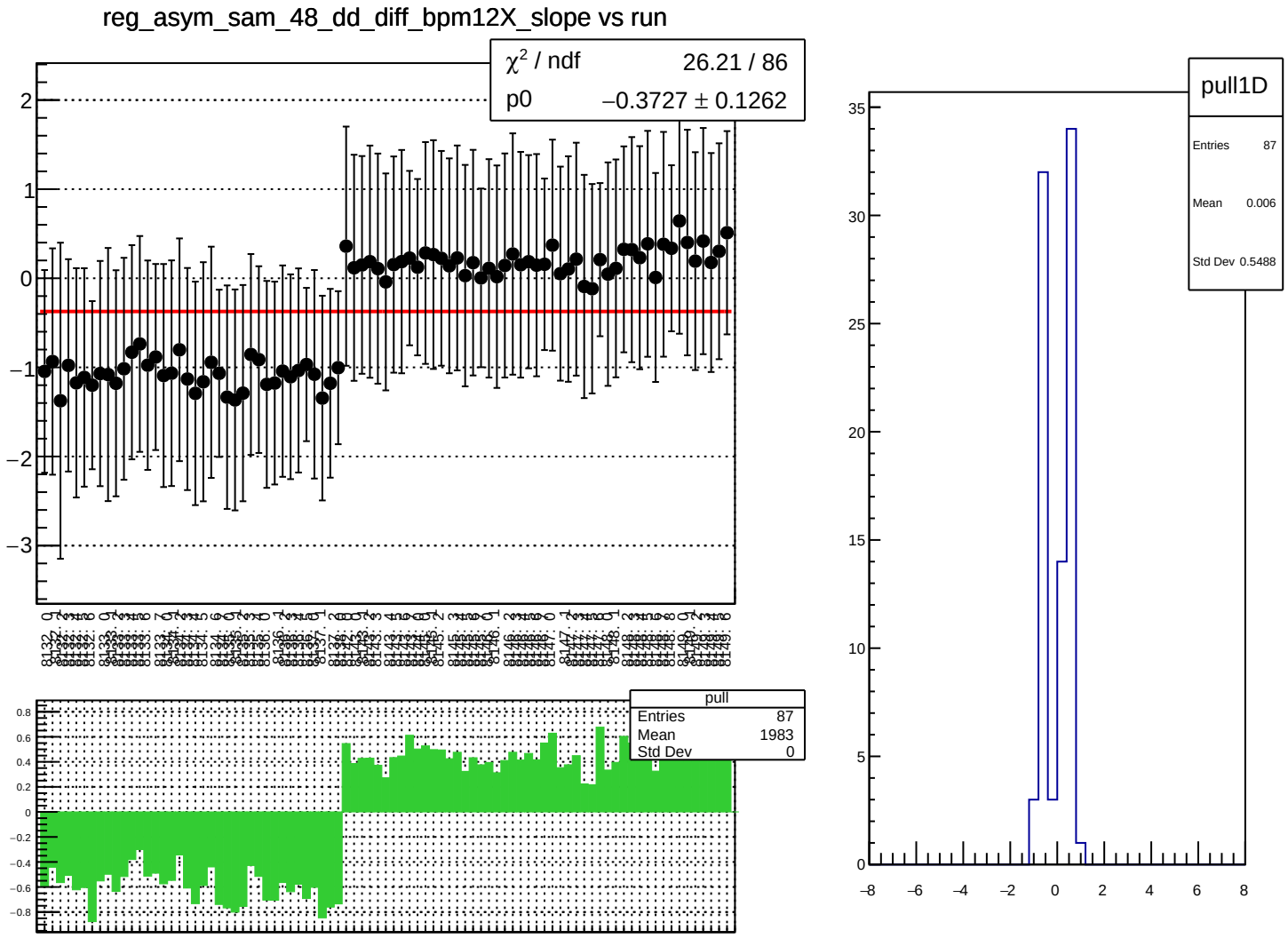

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.613 / 86
p0 67.12 ± 2.907
pull
Entries 87
Mean −91.32
Std Dev 0

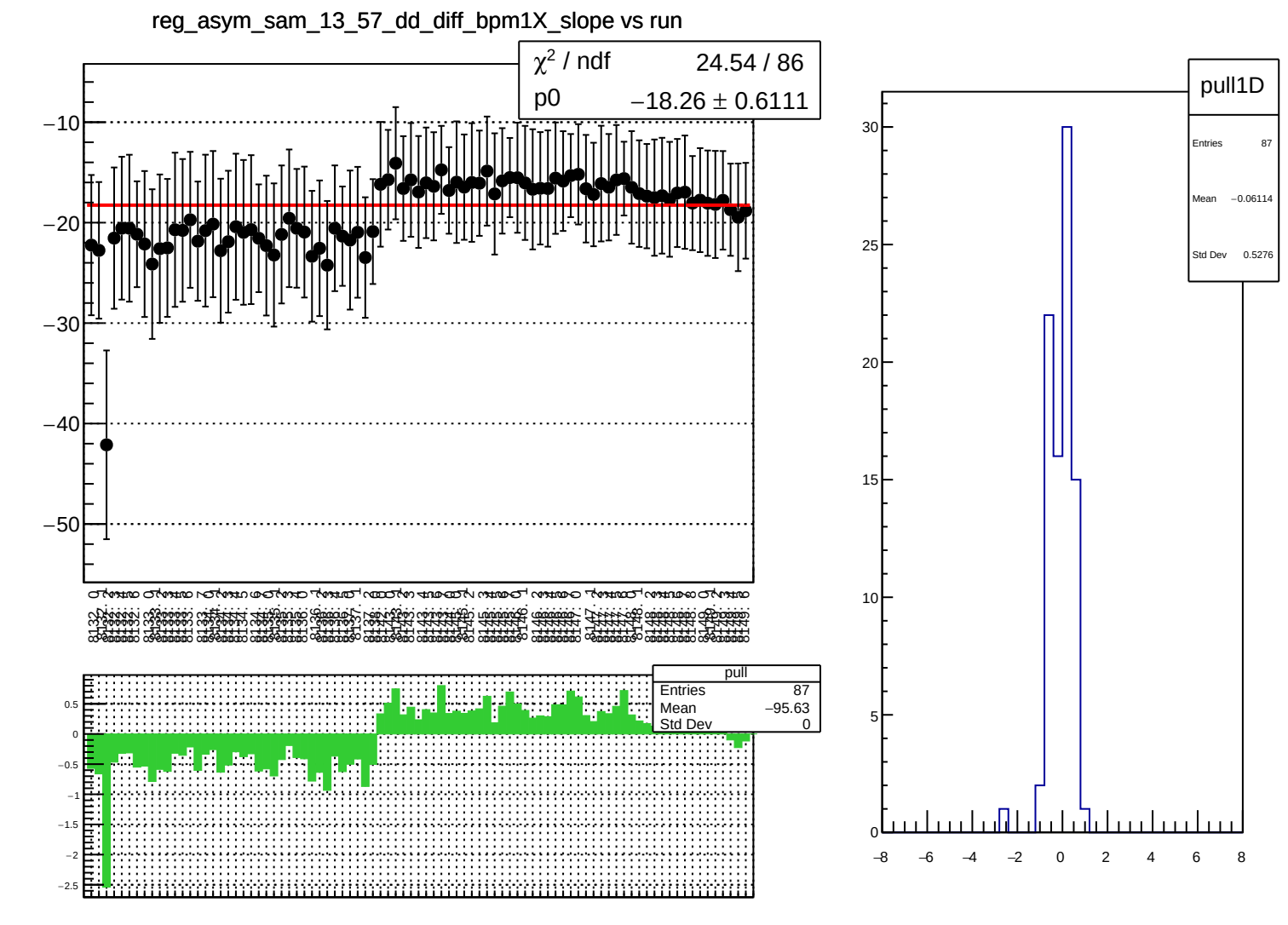

pull1D
Entries 87
Mean 0.006541
Std Dev 0.2302

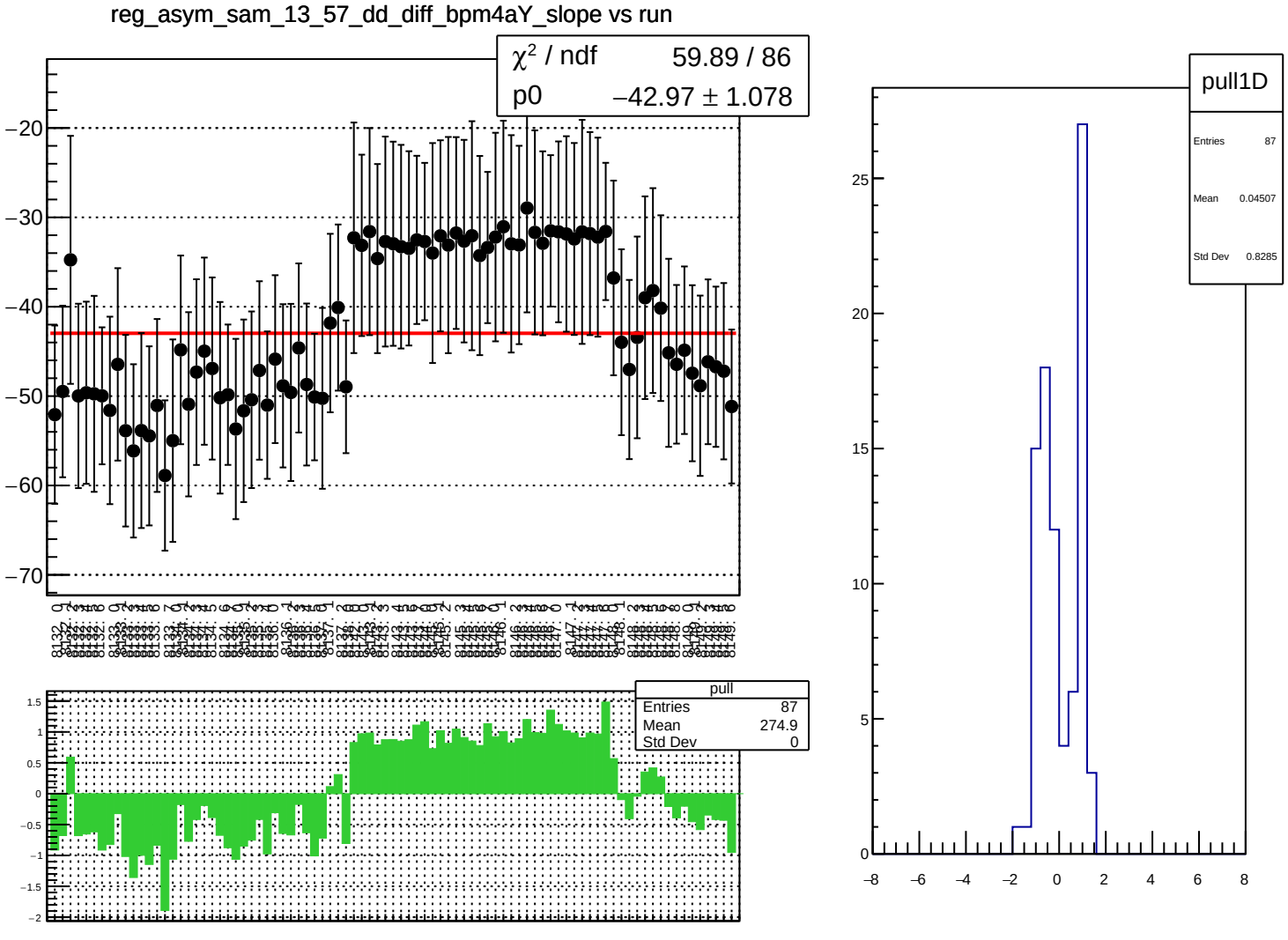

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 20.39 / 86
p0 −65.85 ± 1.597
pull
Entries 87
Mean −80.34
Std Dev 0
pull1D
Entries 87
Mean 0.08039
Std Dev 0.4774

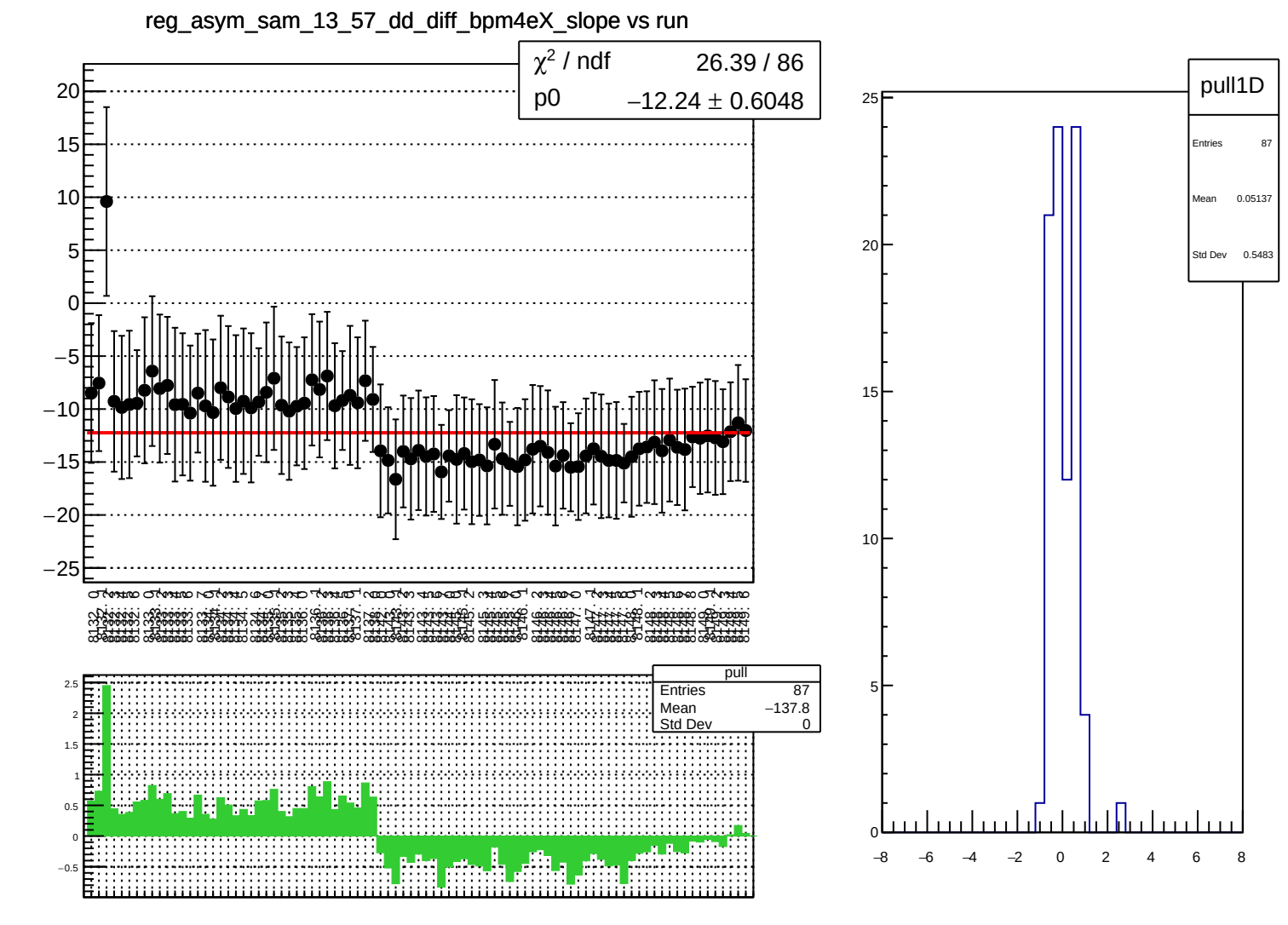

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.501 / 86
p0 53.58 ± 3.111
pull
Entries 87
Mean −152.9
Std Dev 0

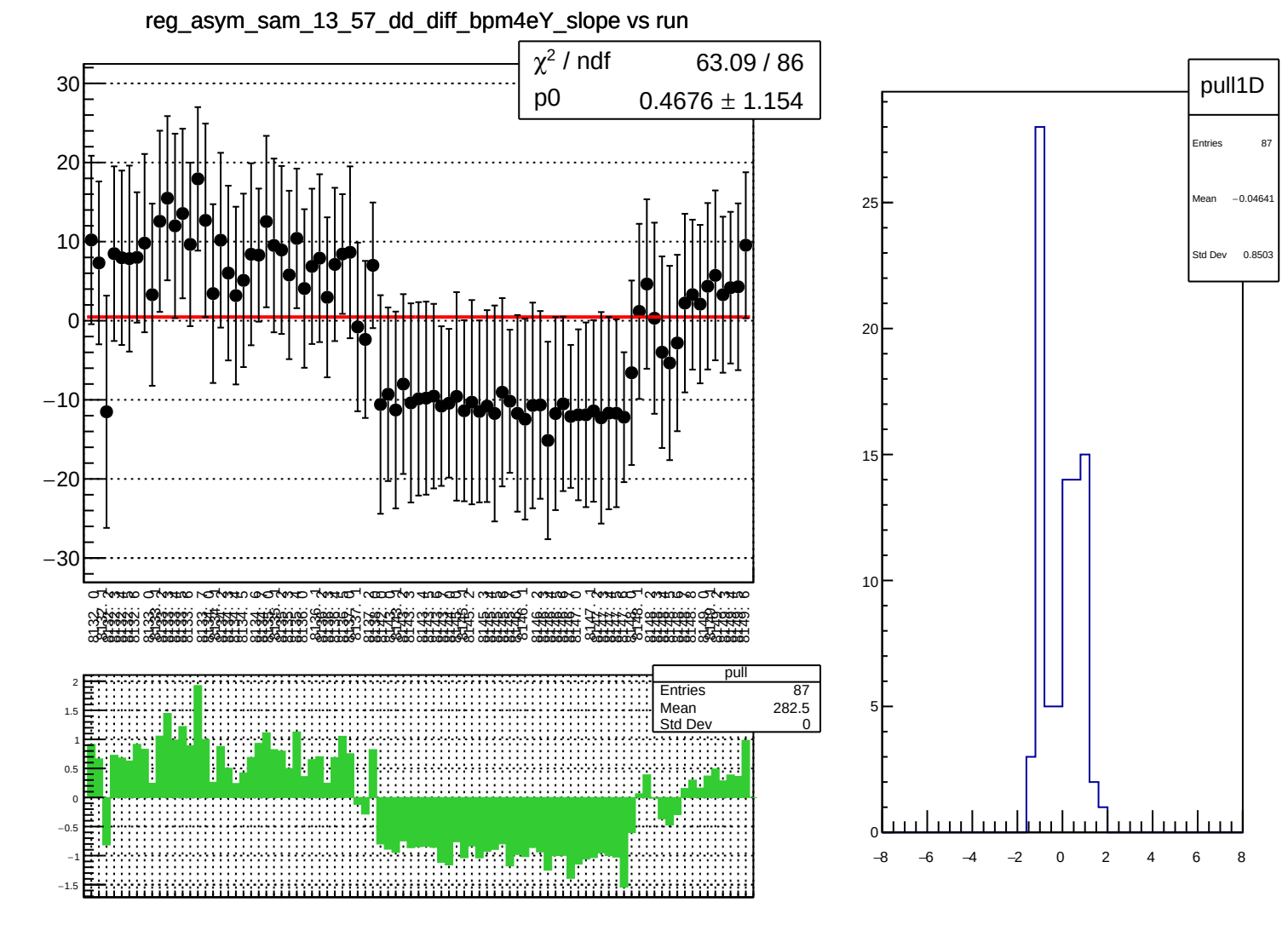

pull1D
Entries 87
Mean −0.009378
Std Dev 0.2513

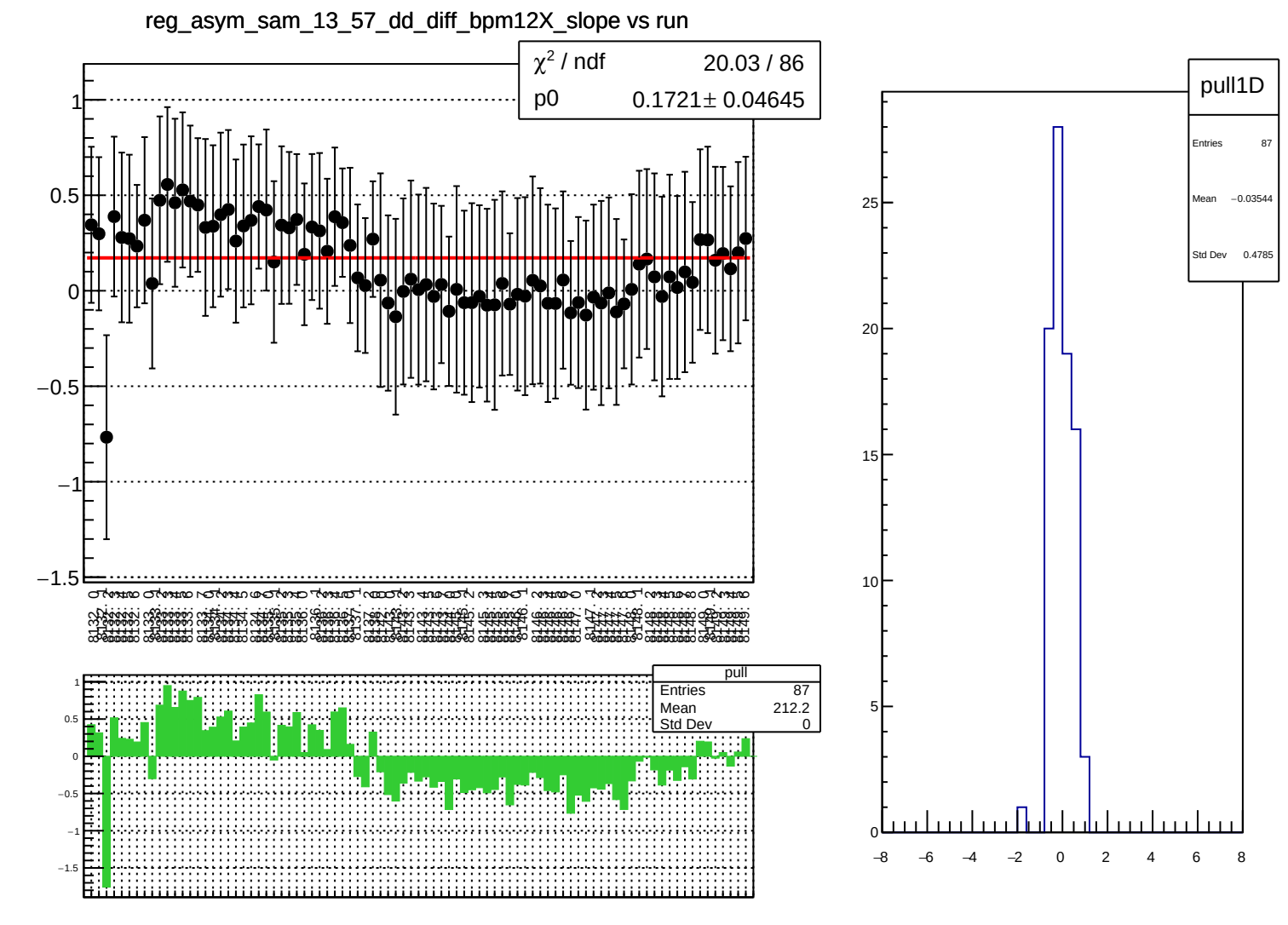

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 26.21 / 86
p0 −0.3727 ± 0.1262
pull
Entries 87
Mean 1983
Std Dev 0
pull1D
Entries 87
Mean 0.006
Std Dev 0.5488

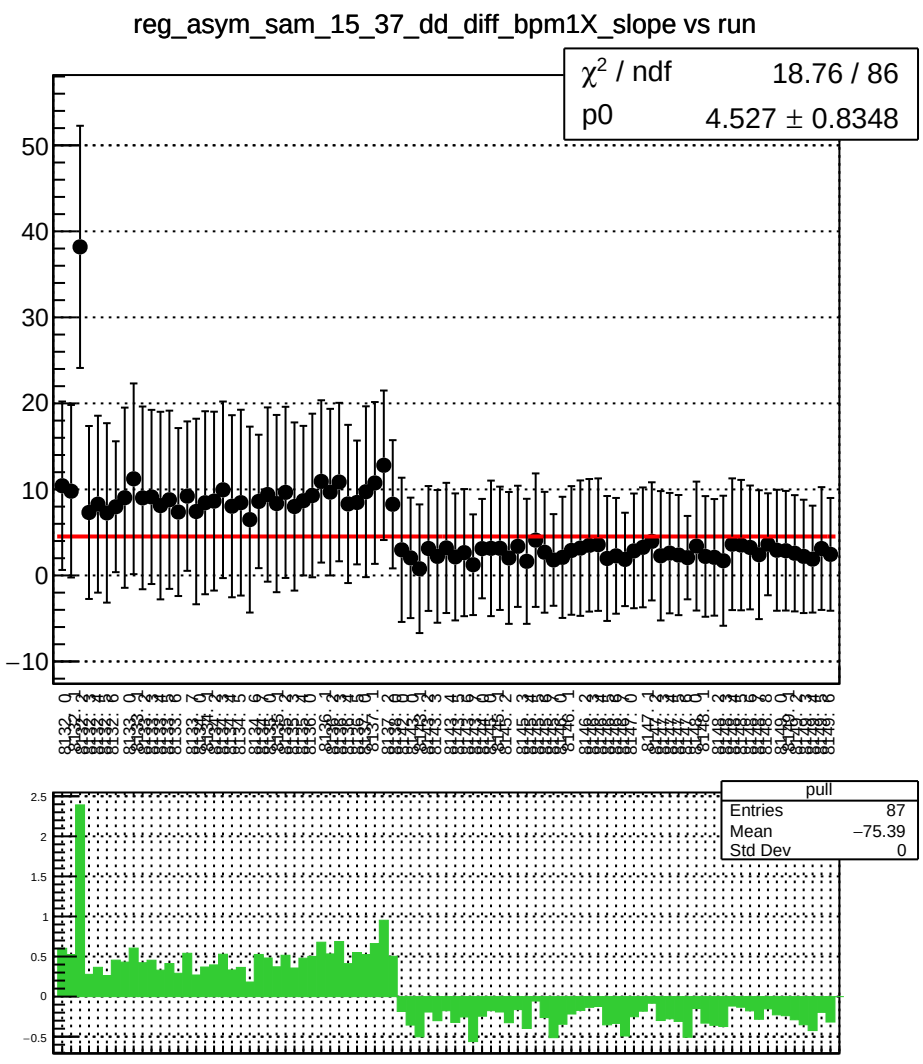

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 24.54 / 86
p0 −18.26 ± 0.6111
pull
Entries 87
Mean −95.63
Std Dev 0
pull1D
Entries 87
Mean −0.06114
Std Dev 0.5276

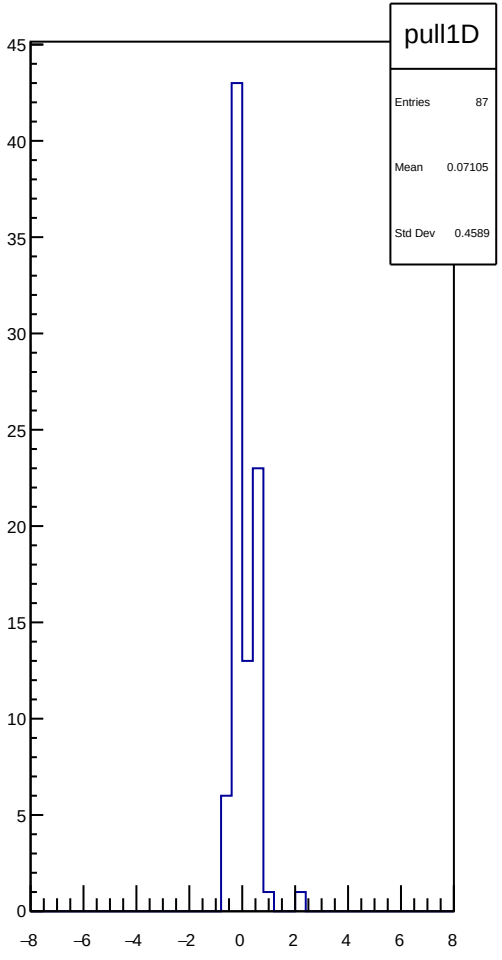

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 59.89 / 86
p0 −42.97 ± 1.078
pull
Entries 87
Mean 274.9
Std Dev 0
pull1D
Entries 87
Mean 0.04507
Std Dev 0.8285

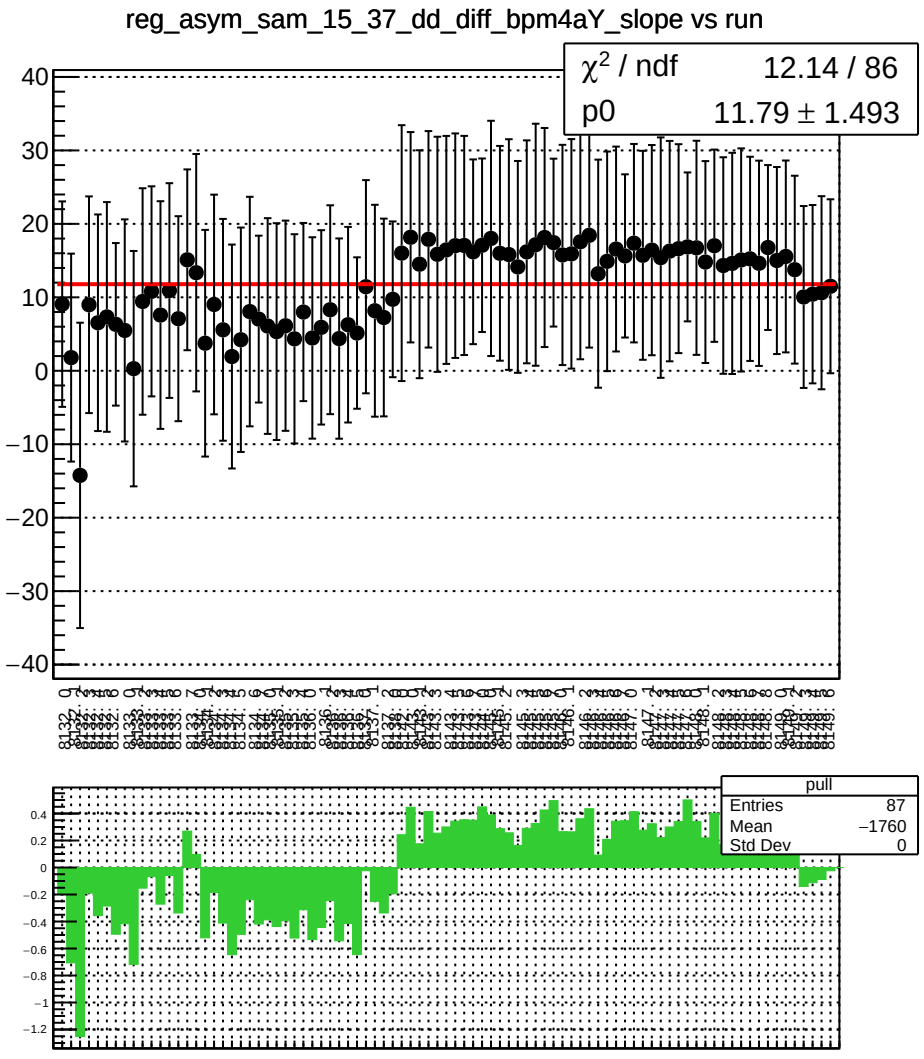

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 26.39 / 86
p0 −12.24 ± 0.6048
pull
Entries 87
Mean −137.8
Std Dev 0
pull1D
Entries 87
Mean 0.05137
Std Dev 0.5483

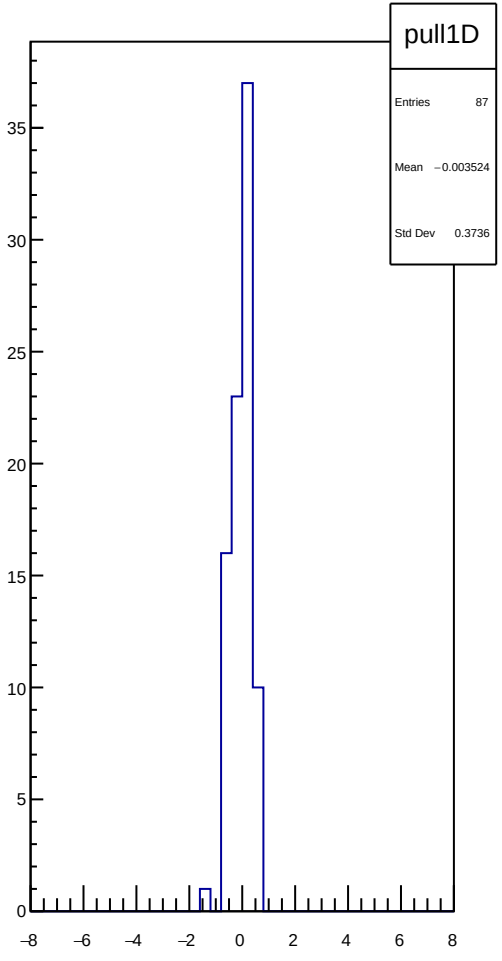

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 63.09 / 86
p0 0.4676 ± 1.154
pull
Entries 87
Mean 282.5
Std Dev 0
pull1D
Entries 87
Mean −0.04641
Std Dev 0.8503

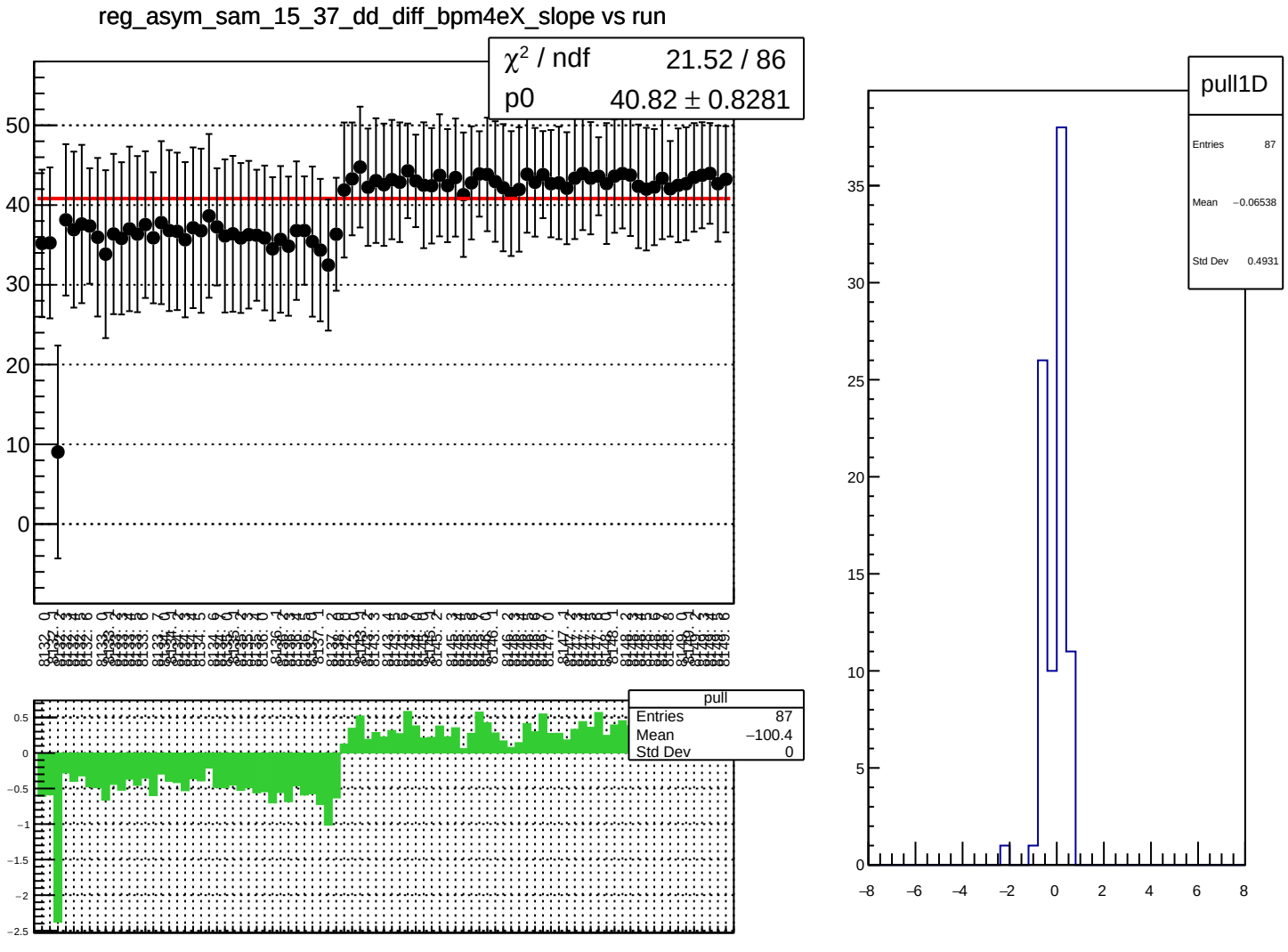

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 20.03 / 86
p0 0.1721± 0.04645
pull
Entries 87
Mean 212.2
Std Dev 0
pull1D
Entries 87
Mean −0.03544
Std Dev 0.4785

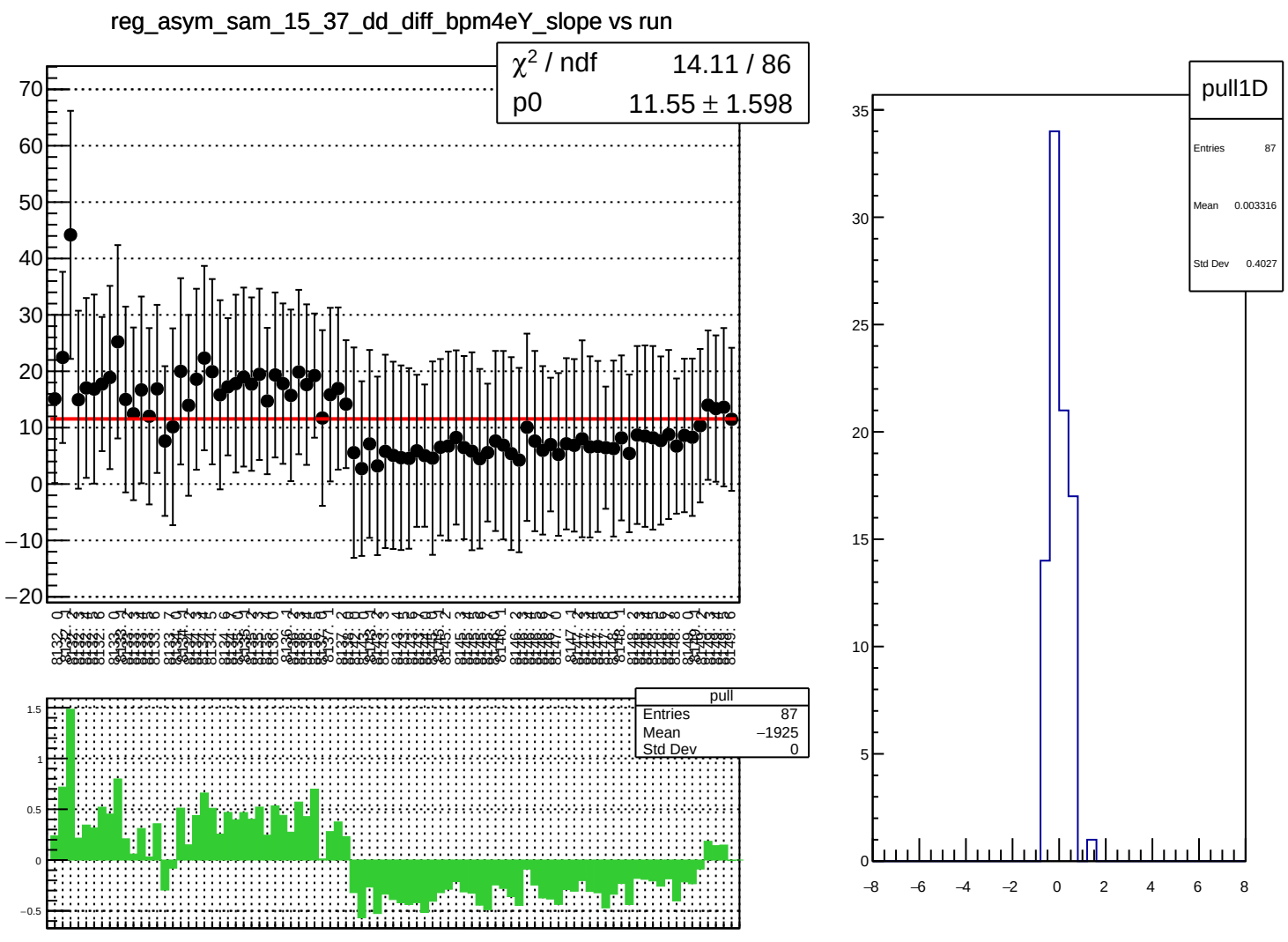

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 18.76 / 86
p0 4.527 ± 0.8348
pull
Entries 87
Mean −75.39
Std Dev 0

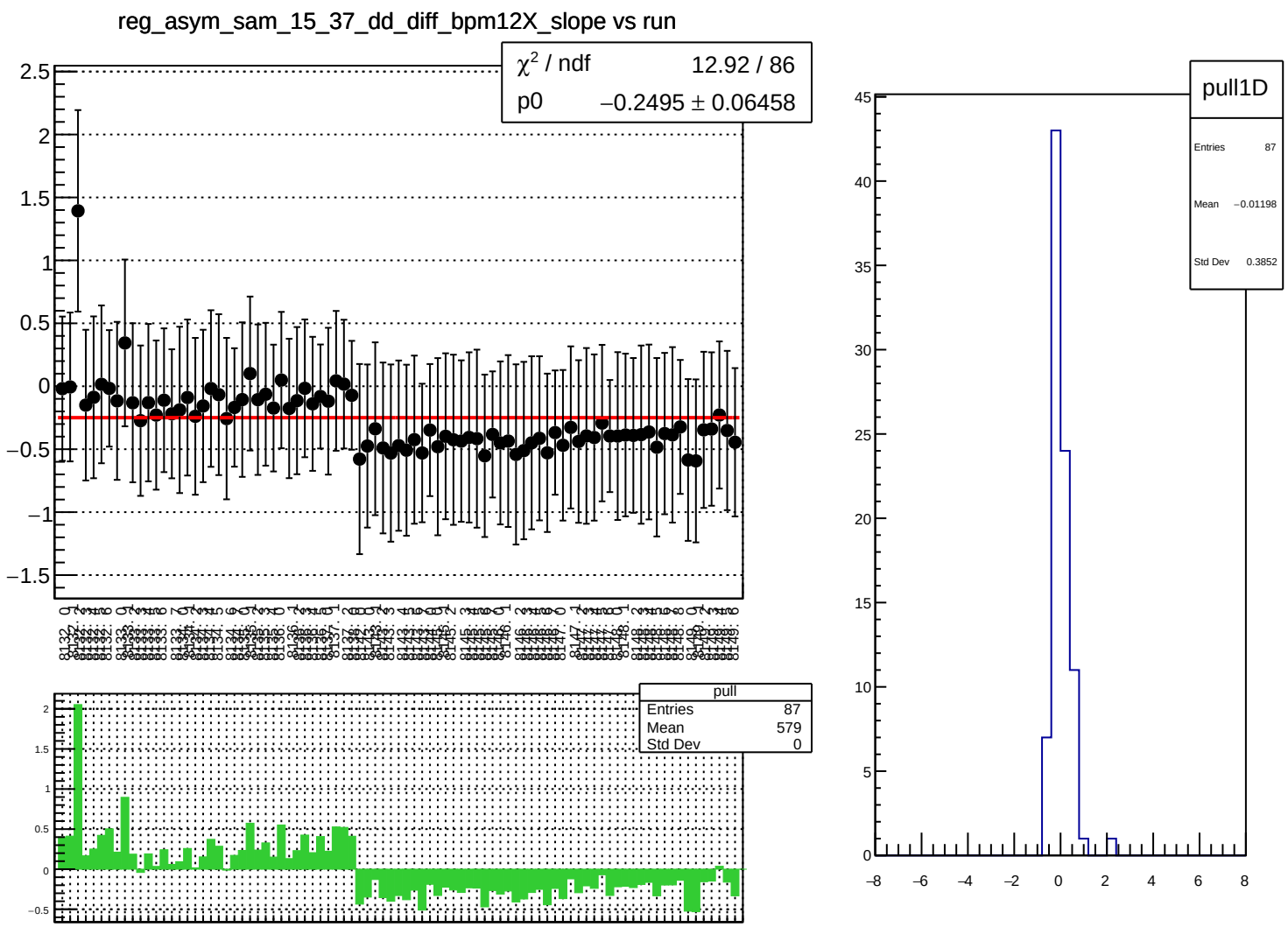

pull1D
Entries 87
Mean 0.07105
Std Dev 0.4589

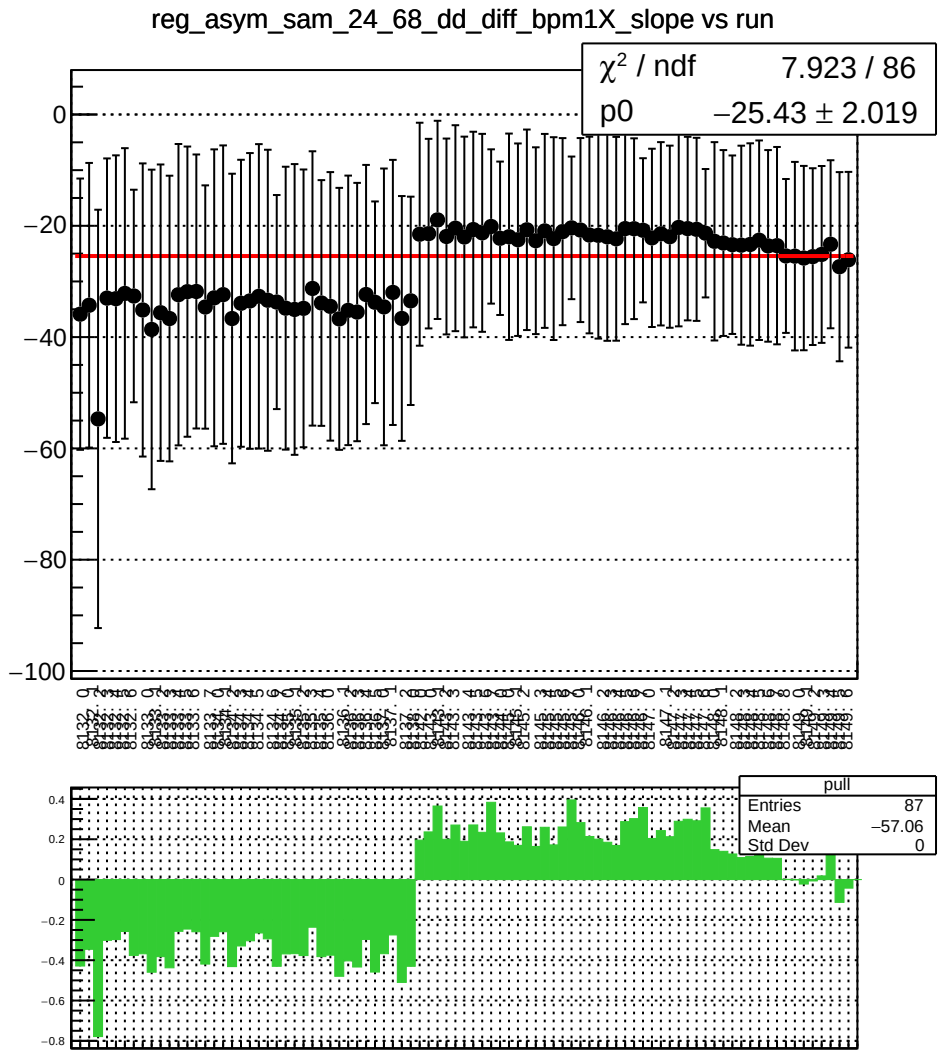

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 12.14 / 86
p0 11.79 ± 1.493
pull
Entries 87
Mean −1760
Std Dev 0

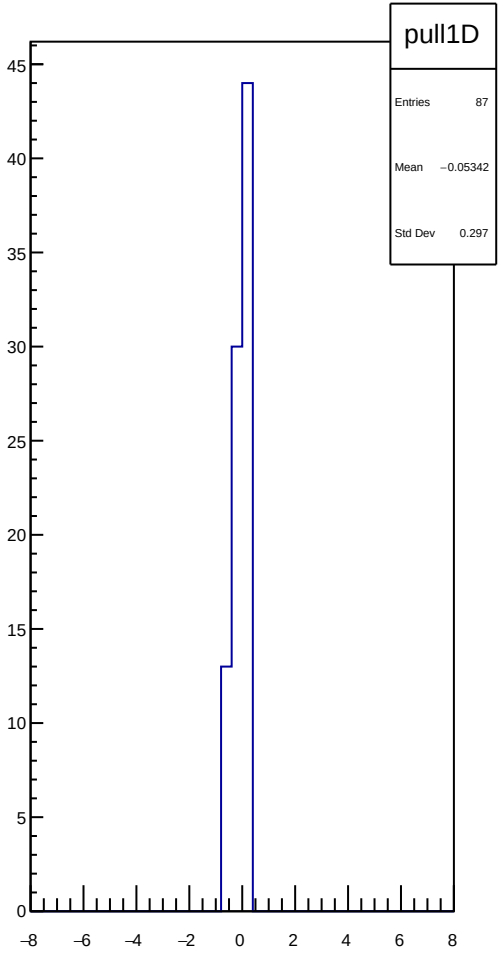

pull1D
Entries 87
Mean −0.003524
Std Dev 0.3736

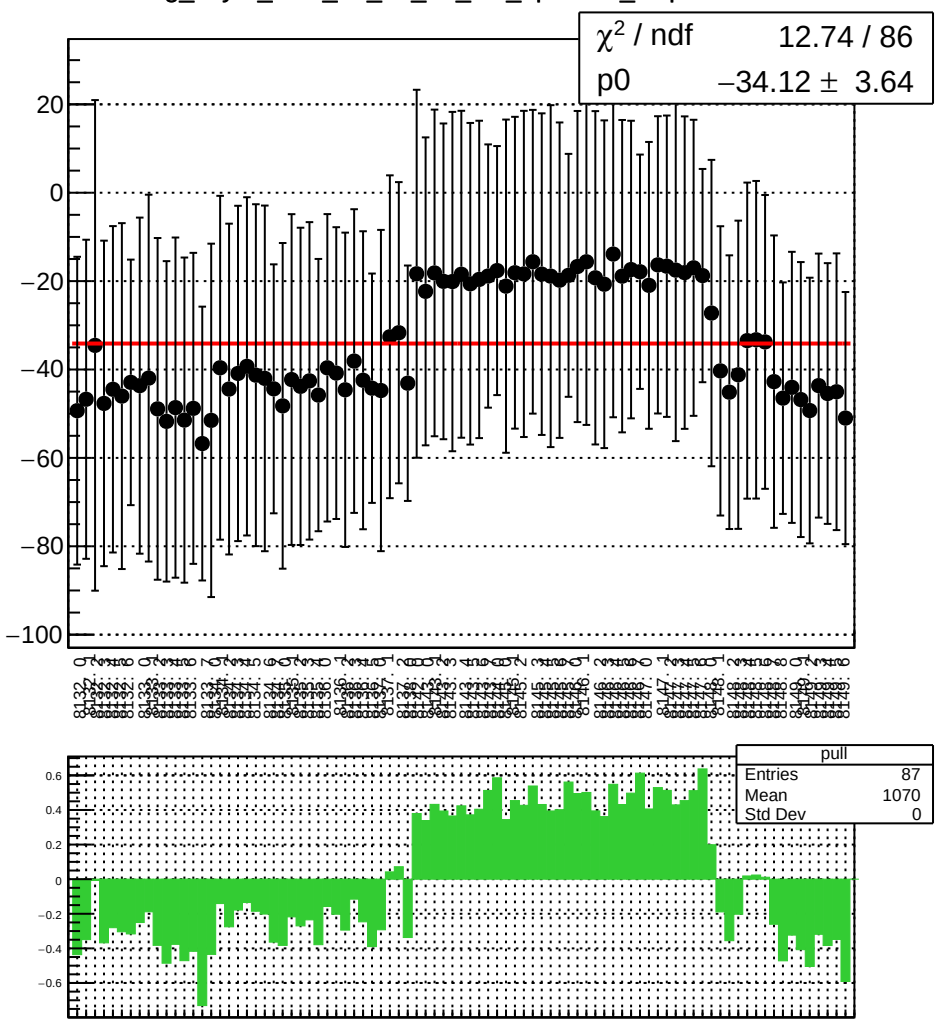

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 21.52 / 86
p0 40.82 ± 0.8281
pull
Entries 87
Mean −100.4
Std Dev 0
pull1D
Entries 87
Mean −0.06538
Std Dev 0.4931

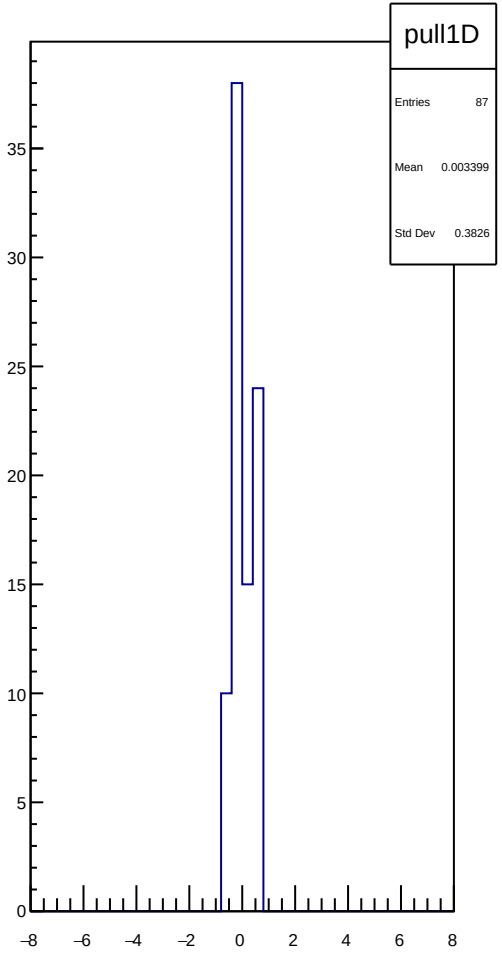

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.11 / 86
p0 11.55 ± 1.598
pull
Entries 87
Mean −1925
Std Dev 0
pull1D
Entries 87
Mean 0.003316
Std Dev 0.4027

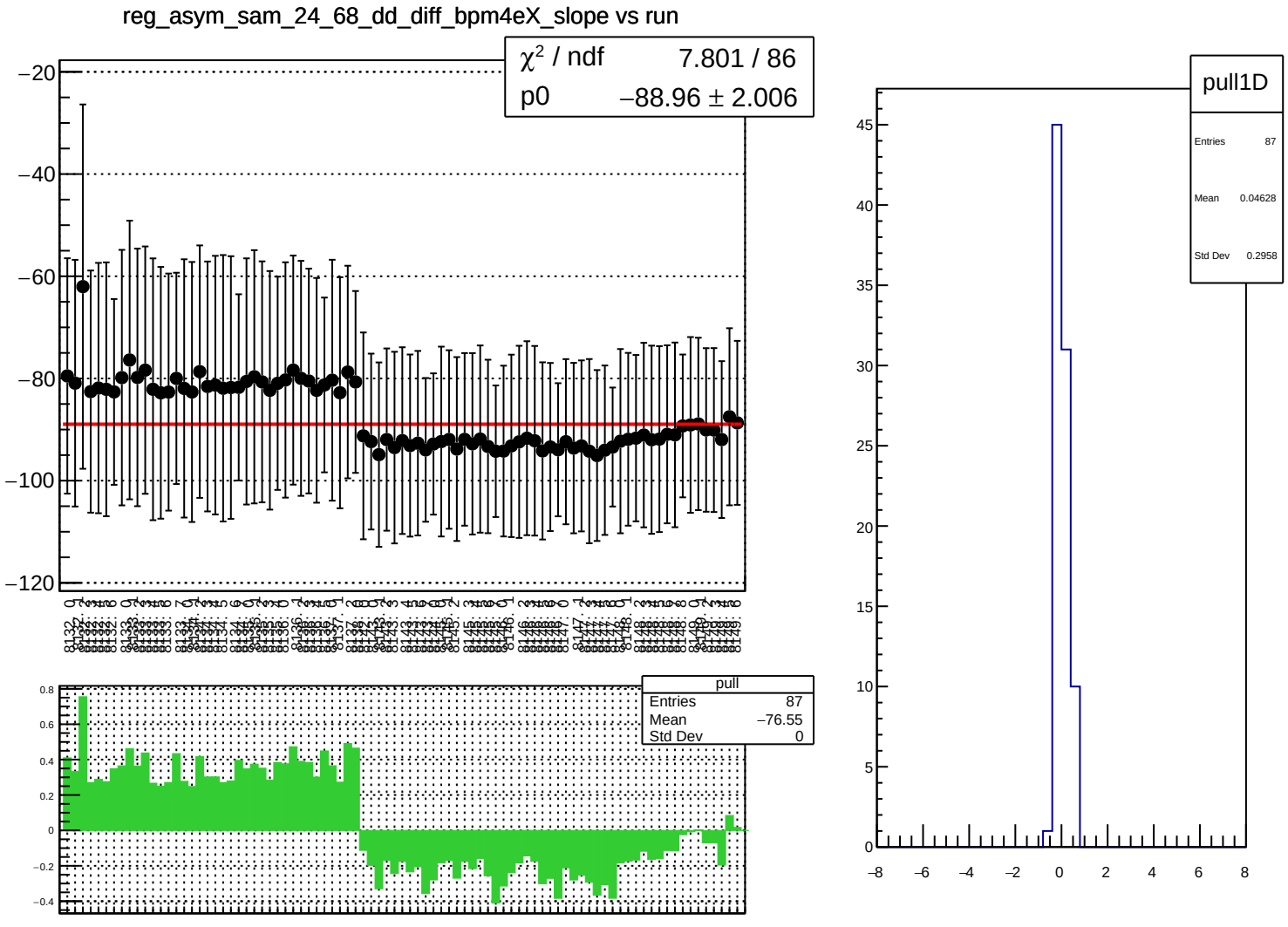

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 12.92 / 86
p0 −0.2495 ± 0.06458
pull
Entries 87
Mean 579
Std Dev 0
pull1D
Entries 87
Mean −0.01198
Std Dev 0.3852

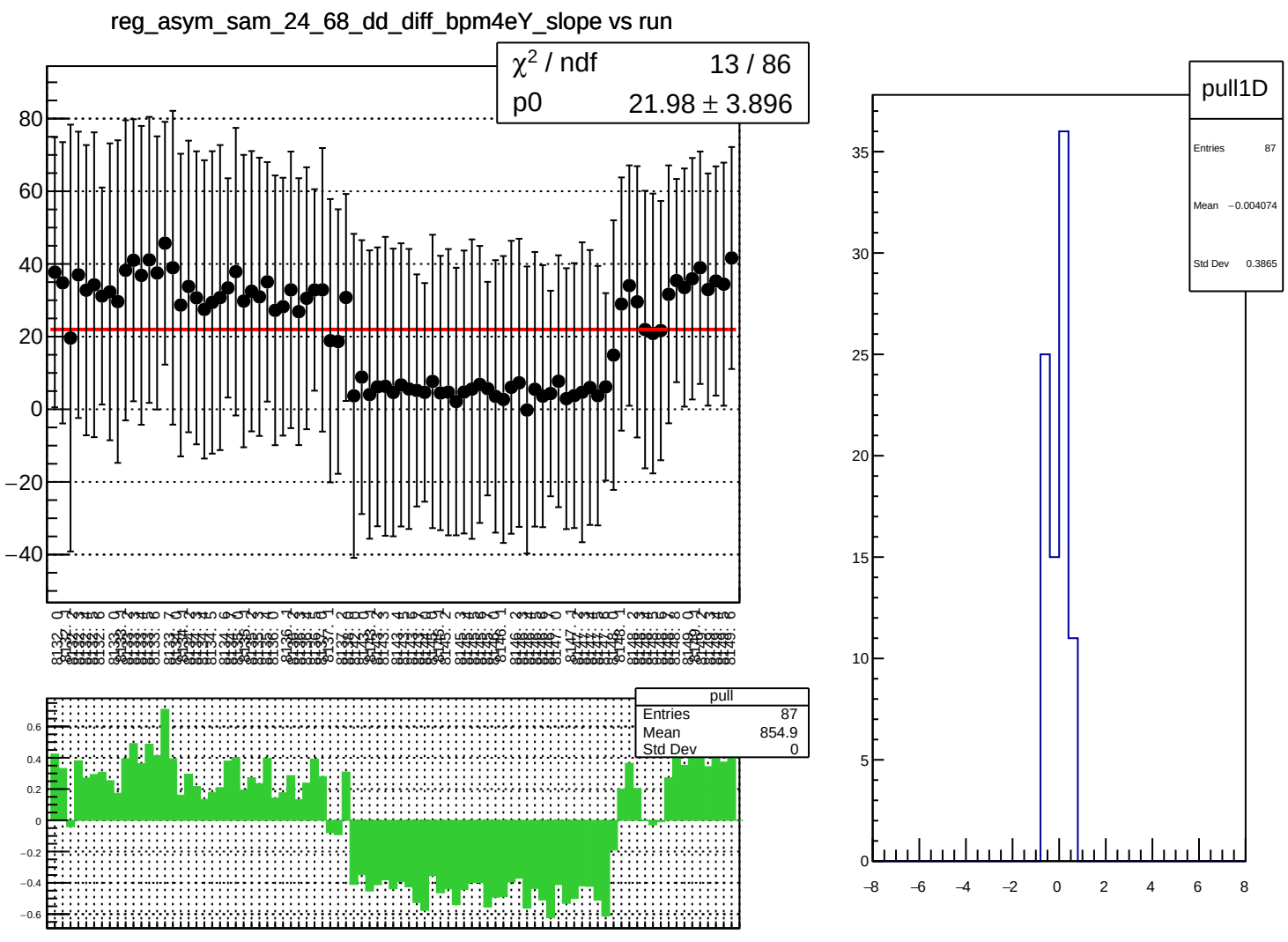

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 7.923 / 86
p0 −25.43 ± 2.019
pull
Entries 87
Mean −57.06
Std Dev 0

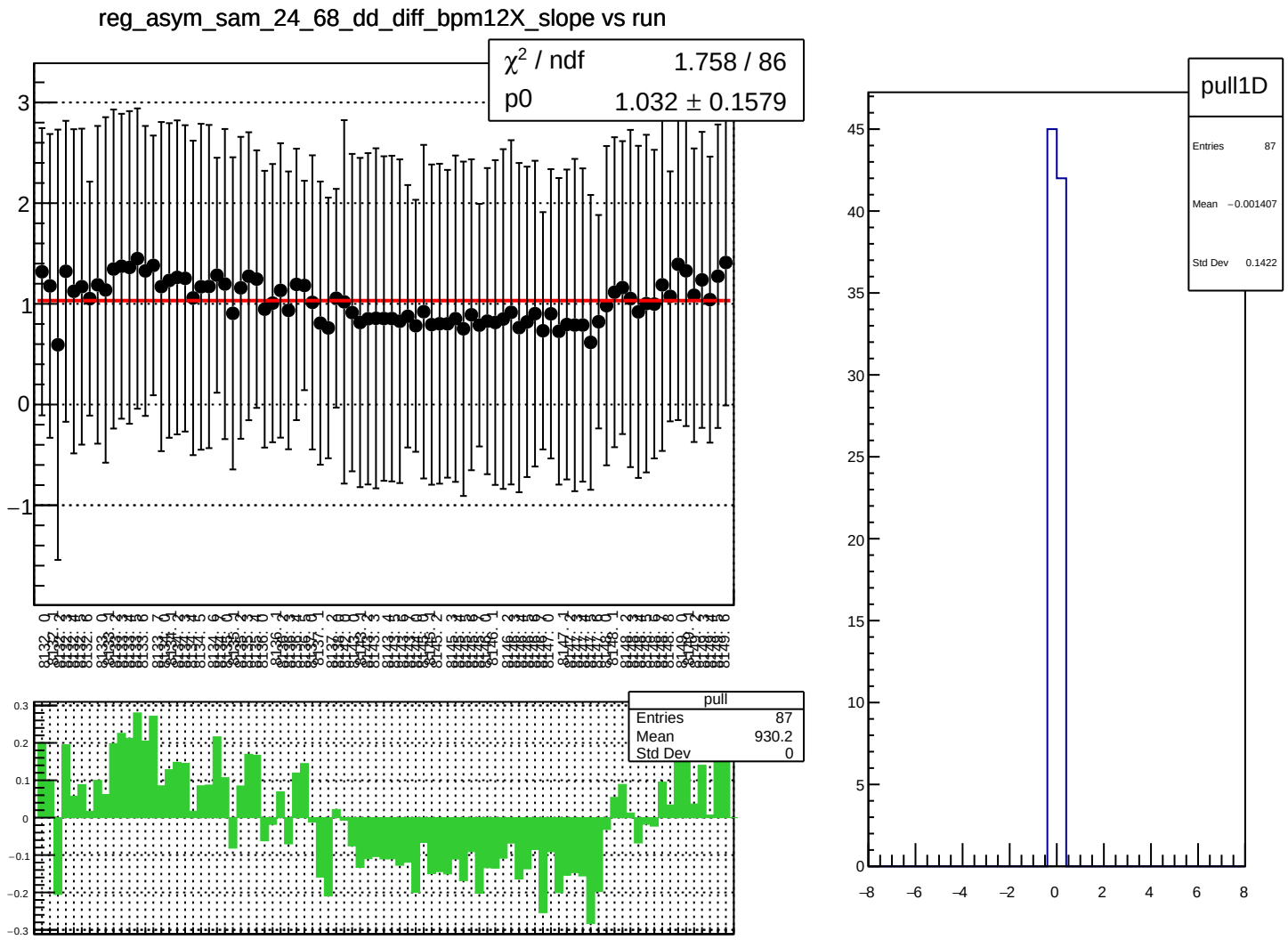

pull1D
Entries 87
Mean −0.05342
Std Dev 0.297

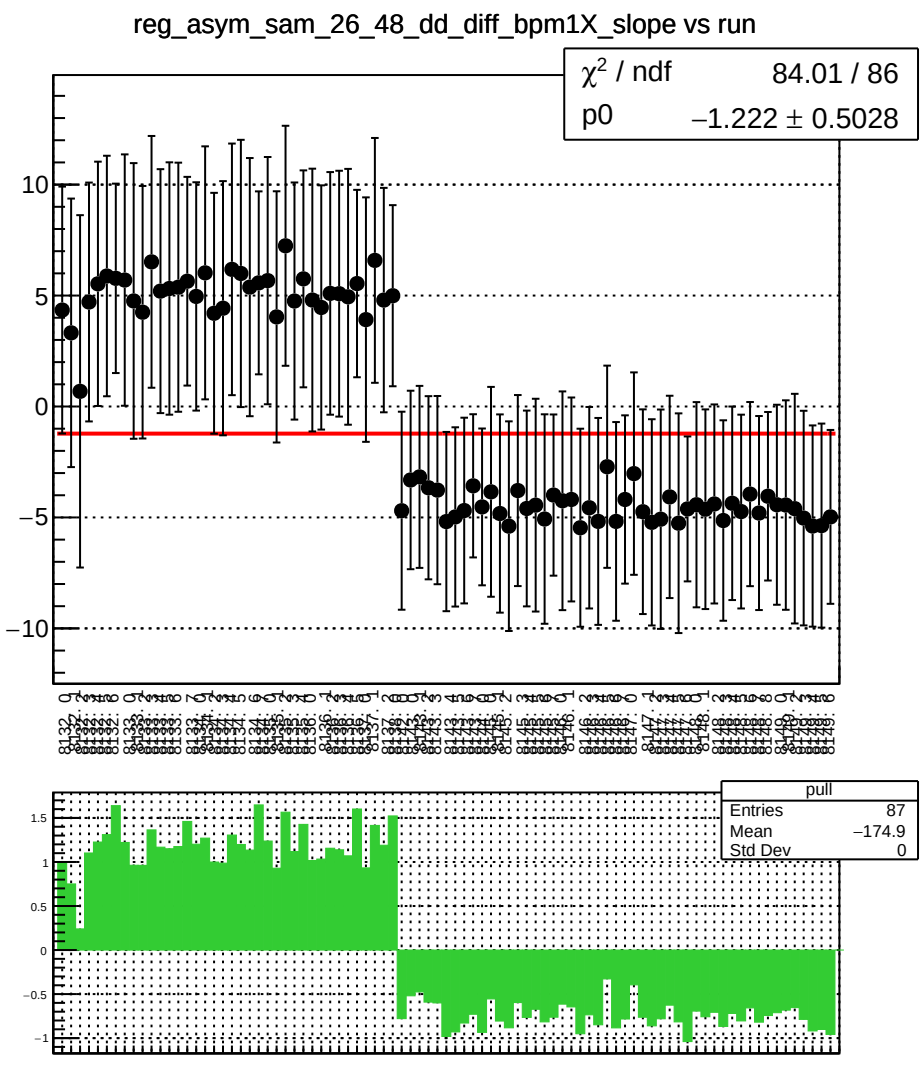

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 12.74 / 86
p0 −34.12 ± 3.64
pull
Entries 87
Mean 1070
Std Dev 0

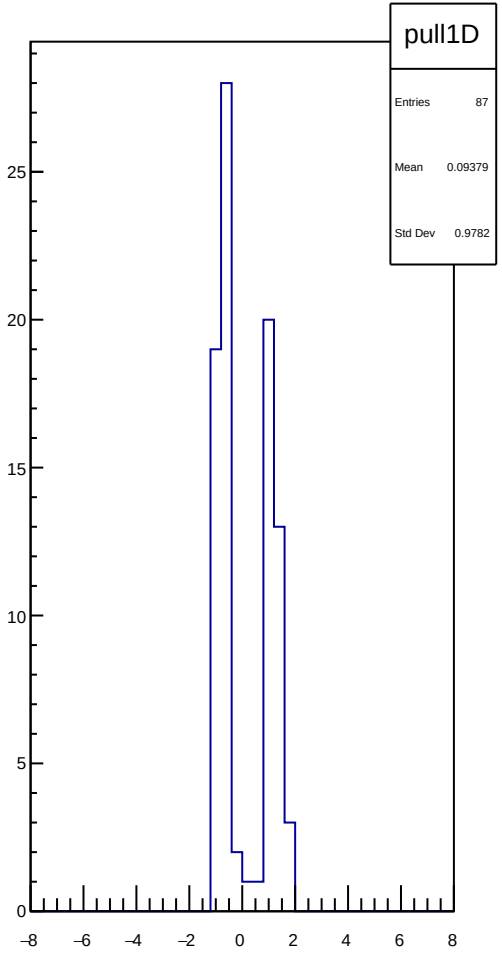

pull1D
Entries 87
Mean 0.003399
Std Dev 0.3826

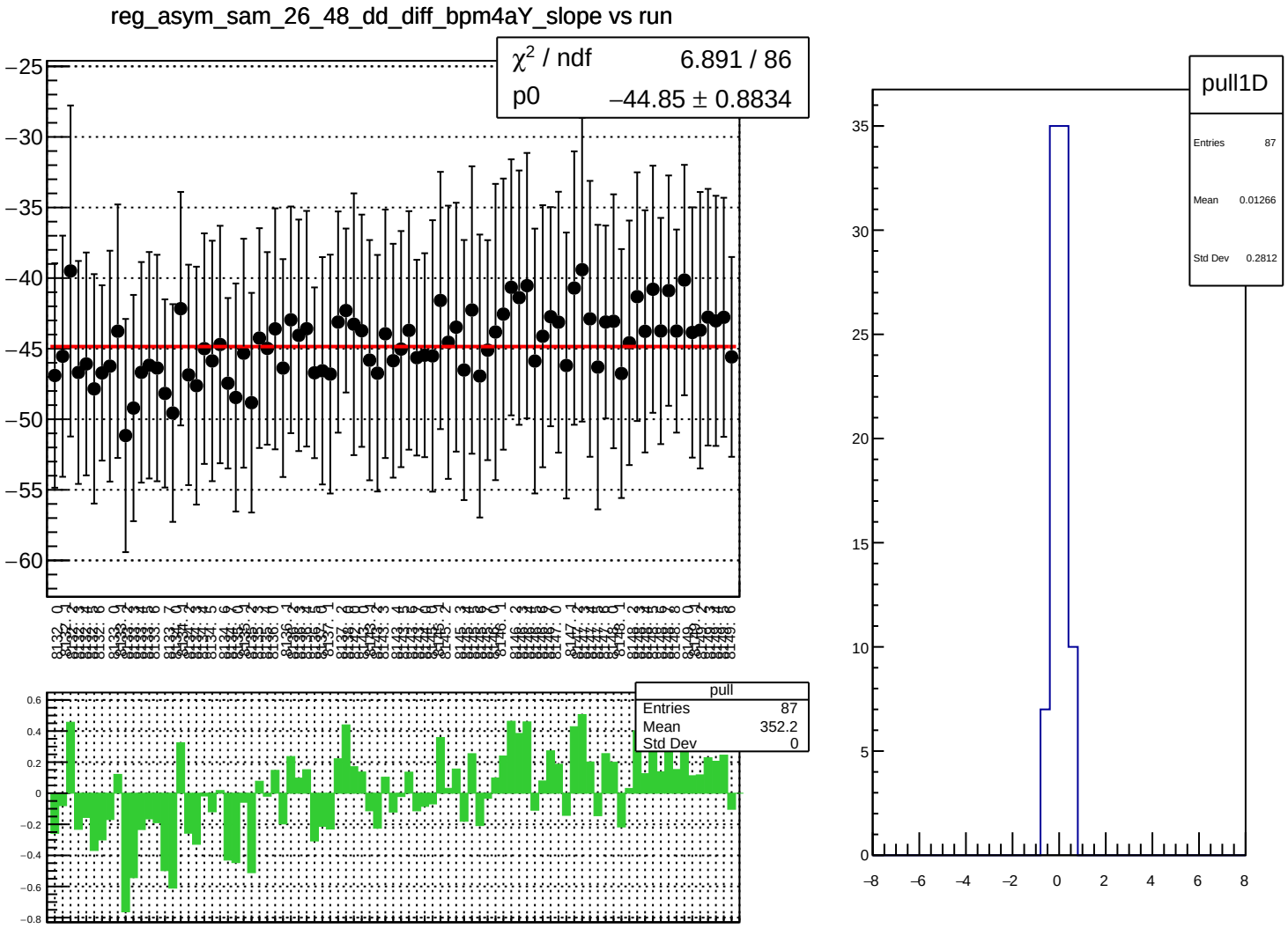

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.801 / 86
p0 −88.96 ± 2.006
pull
Entries 87
Mean −76.55
Std Dev 0
pull1D
Entries 87
Mean 0.04628
Std Dev 0.2958

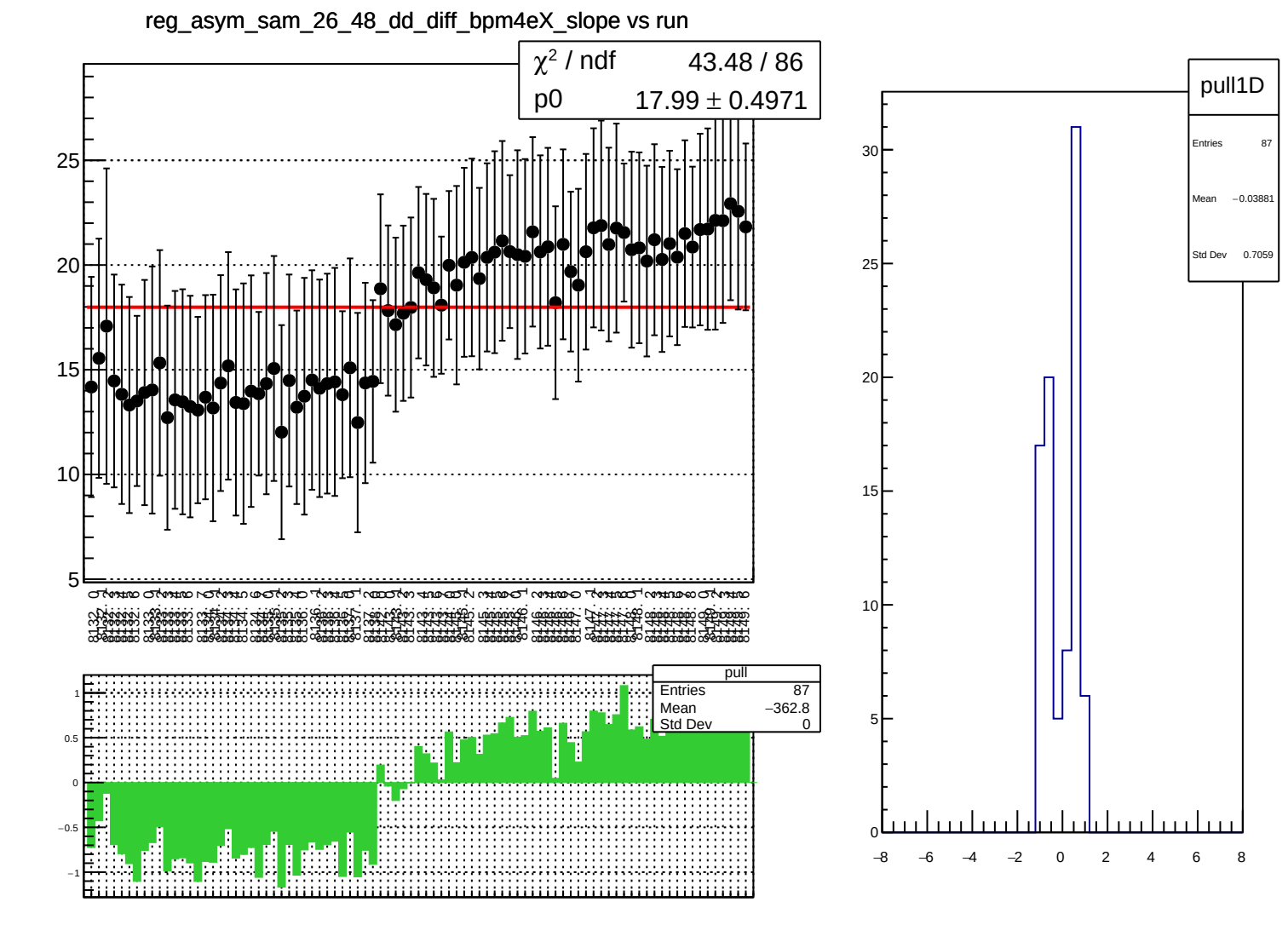

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 13 / 86
p0 21.98 ± 3.896
pull
Entries 87
Mean 854.9
Std Dev 0
pull1D
Entries 87
Mean −0.004074
Std Dev 0.3865

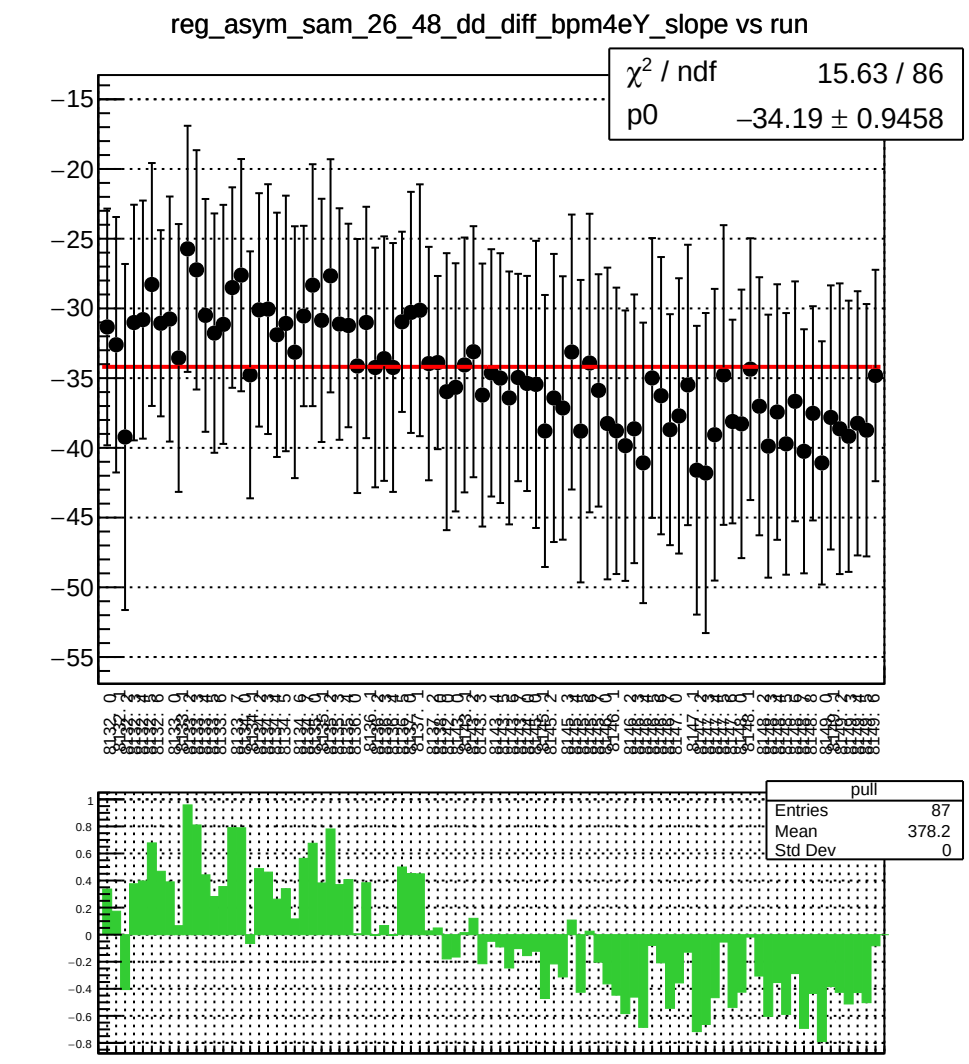

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 1.758 / 86
p0 1.032 ± 0.1579
pull
Entries 87
Mean 930.2
Std Dev 0
pull1D
Entries 87
Mean −0.001407
Std Dev 0.1422

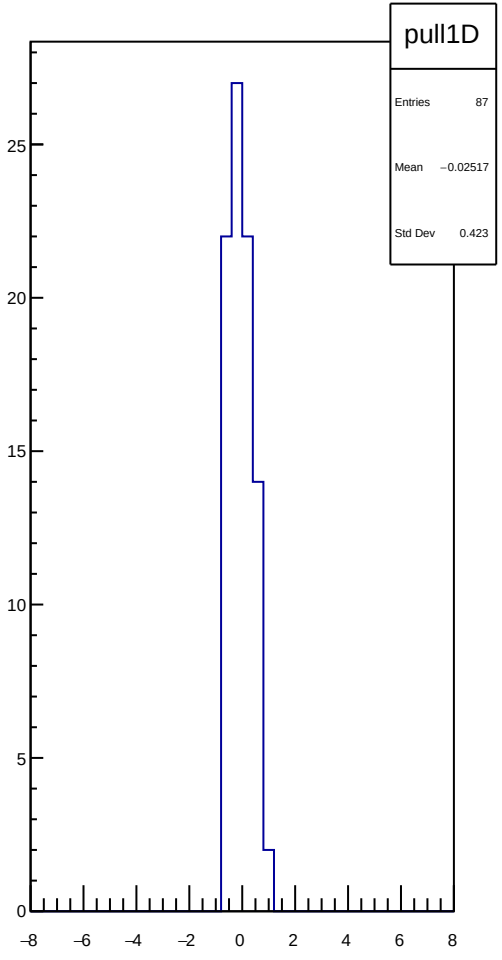

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 84.01 / 86
p0 −1.222 ± 0.5028
pull
Entries 87
Mean −174.9
Std Dev 0

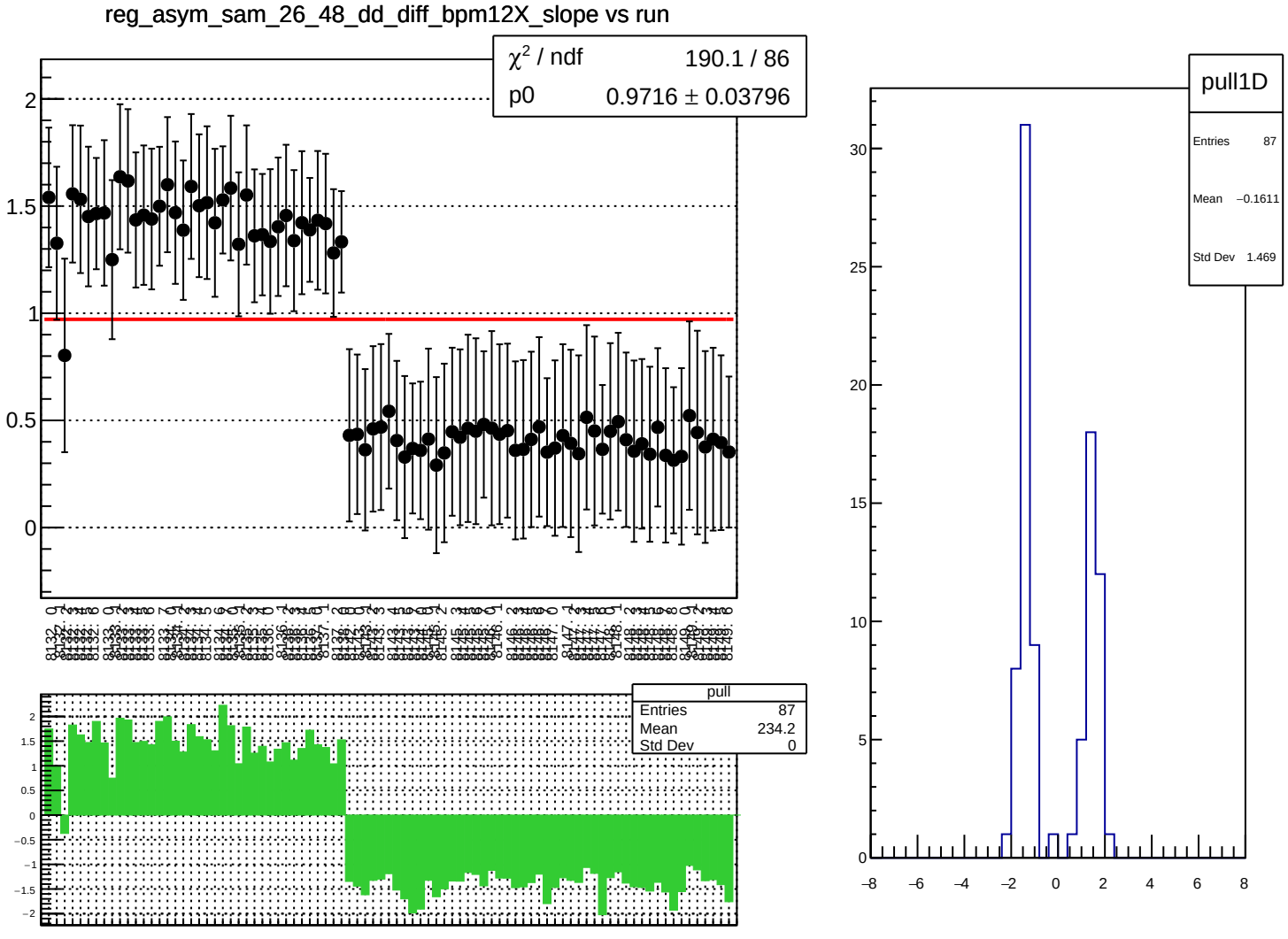

pull1D
Entries 87
Mean 0.09379
Std Dev 0.9782

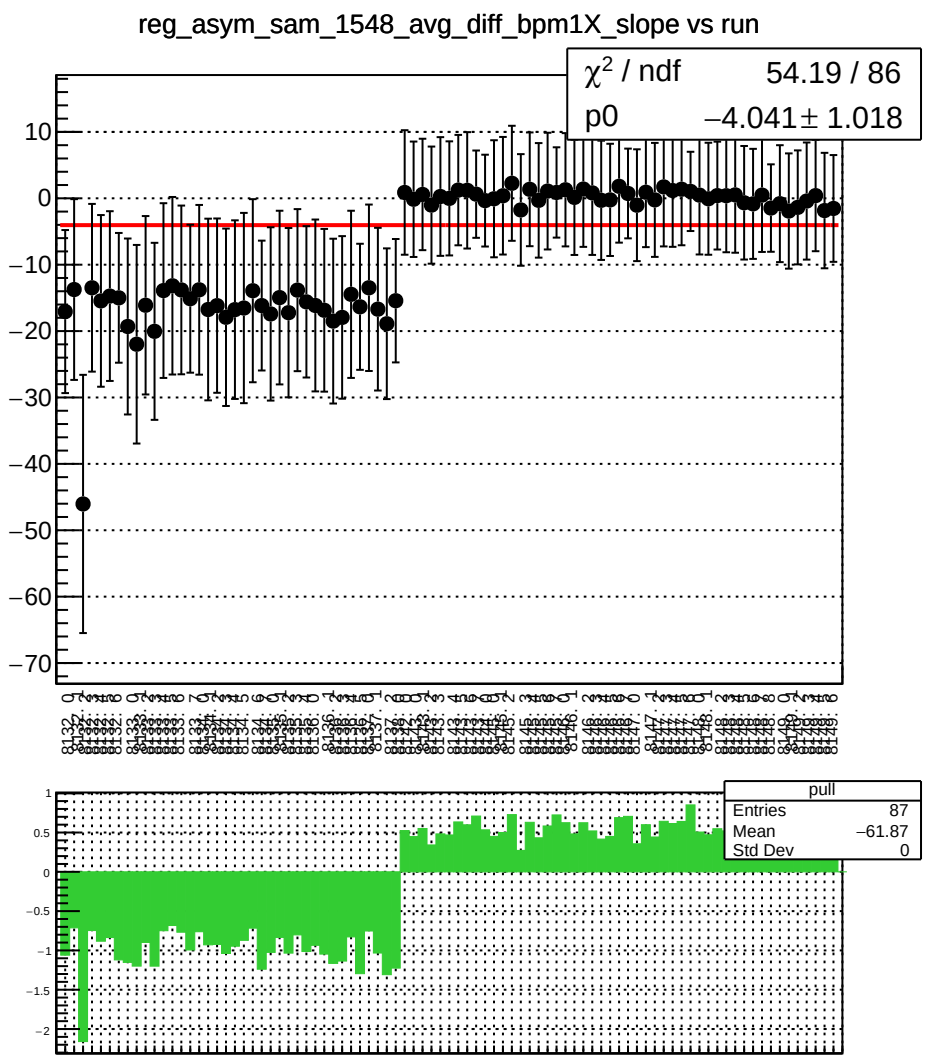

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.891 / 86
p0 −44.85 ± 0.8834
pull
Entries 87
Mean 352.2
Std Dev 0
pull1D
Entries 87
Mean 0.01266
Std Dev 0.2812

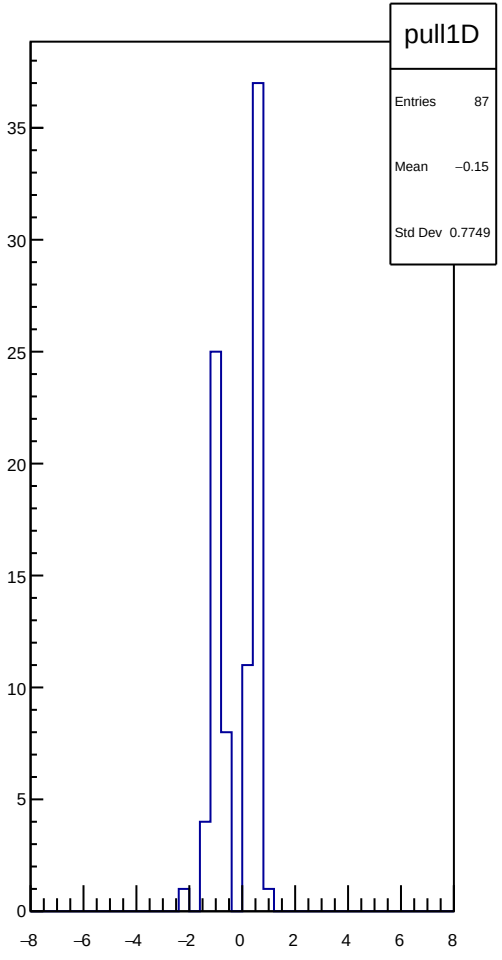

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 43.48 / 86
p0 17.99 ± 0.4971
pull
Entries 87
Mean −362.8
Std Dev 0
pull1D
Entries 87
Mean −0.03881
Std Dev 0.7059

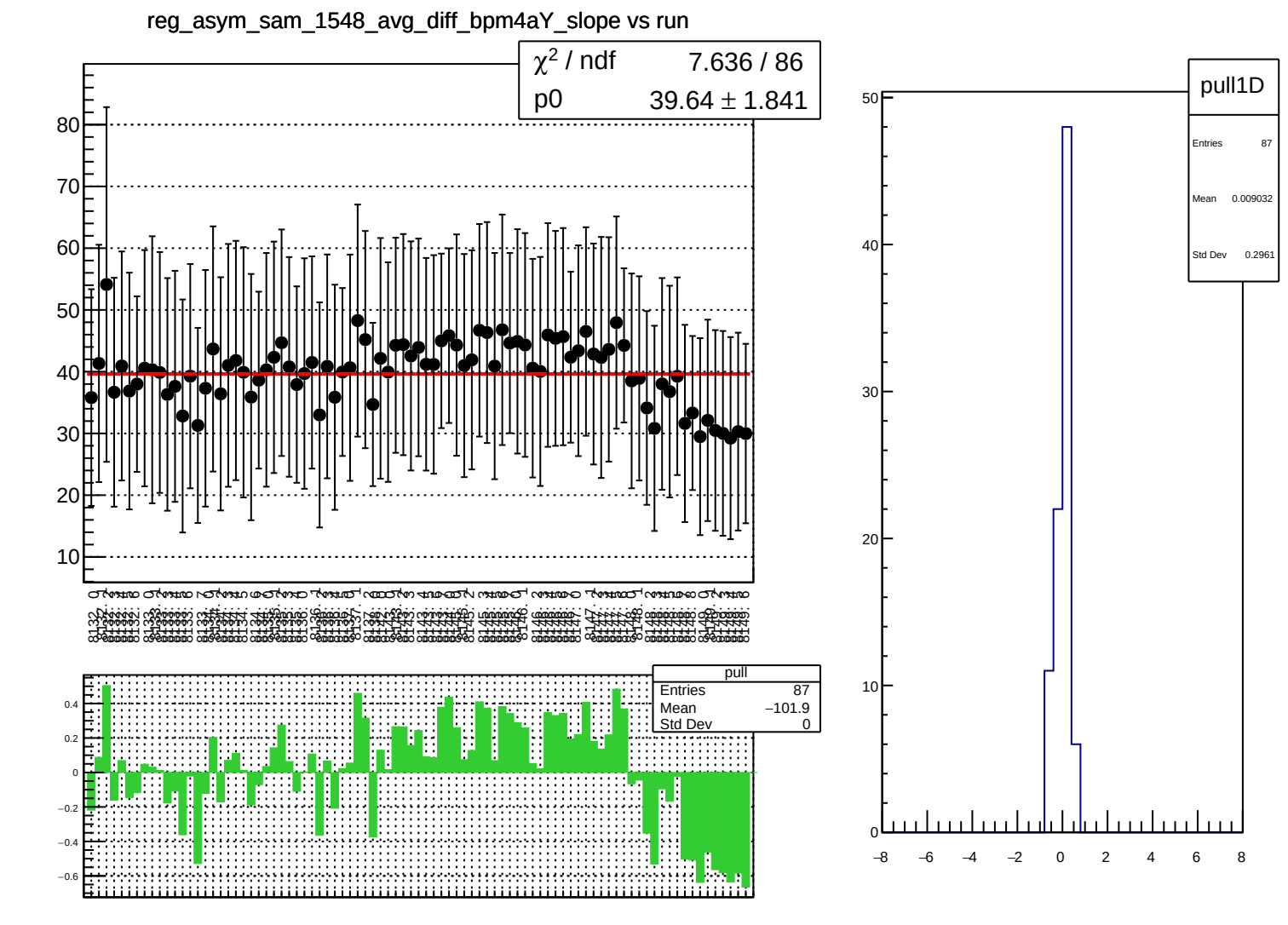

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 15.63 / 86
p0 −34.19 ± 0.9458
pull
Entries 87
Mean 378.2
Std Dev 0

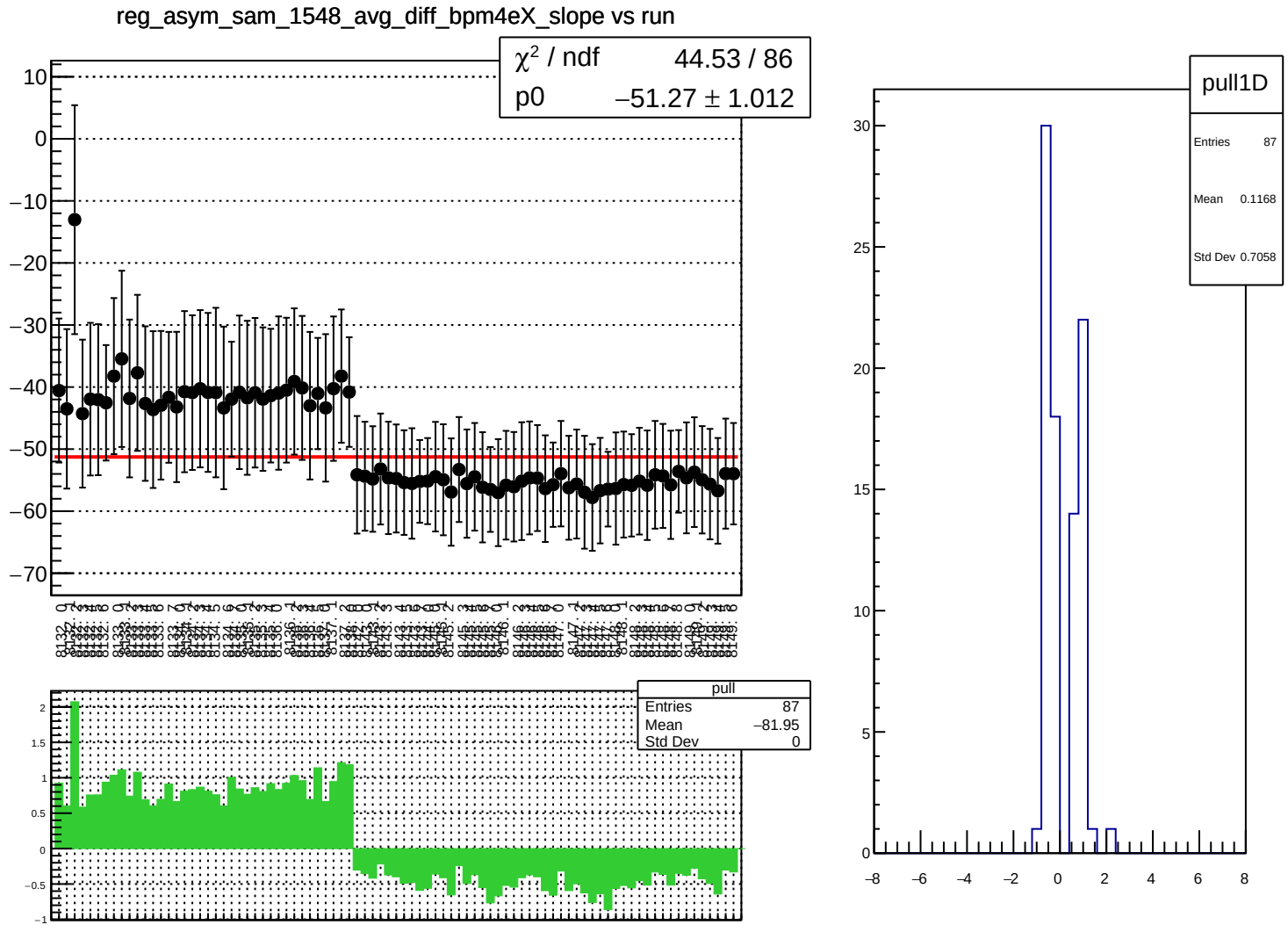

pull1D
Entries 87
Mean −0.02517
Std Dev 0.423

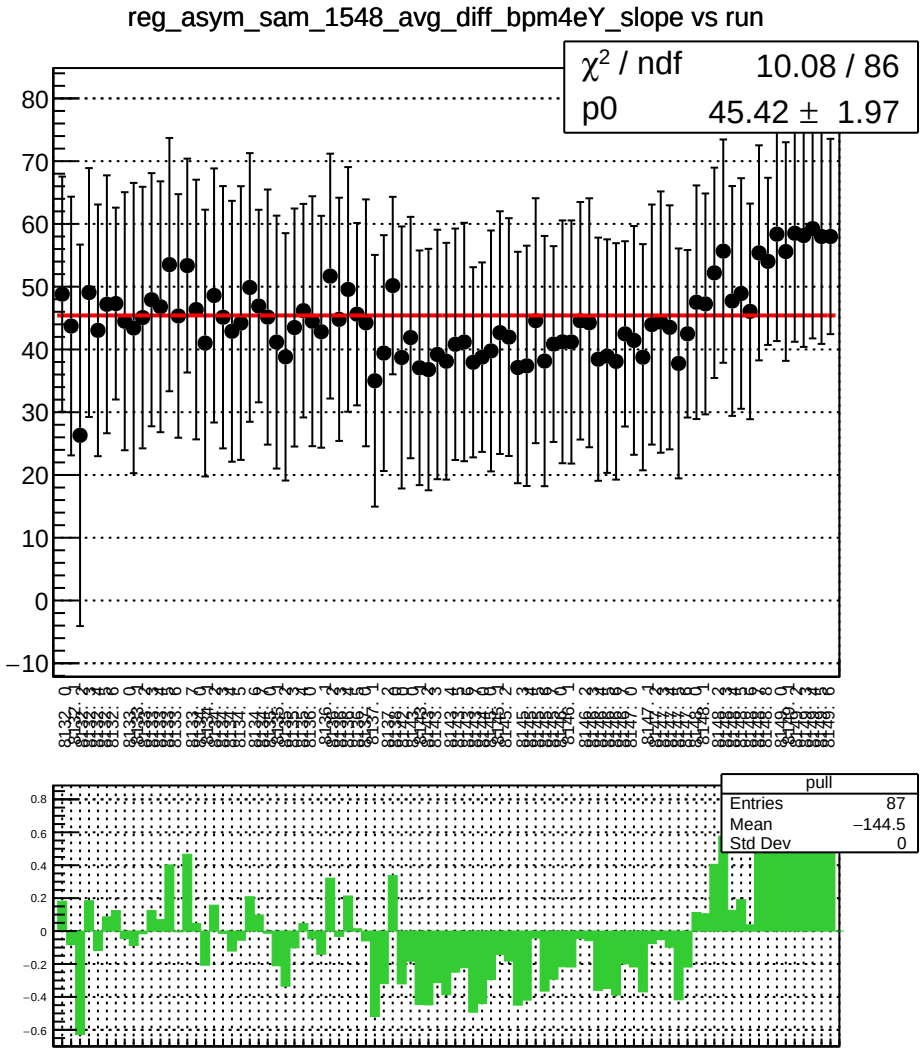

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 190.1 / 86
p0 0.9716 ± 0.03796
pull
Entries 87
Mean 234.2
Std Dev 0
pull1D
Entries 87
Mean −0.1611
Std Dev 1.469

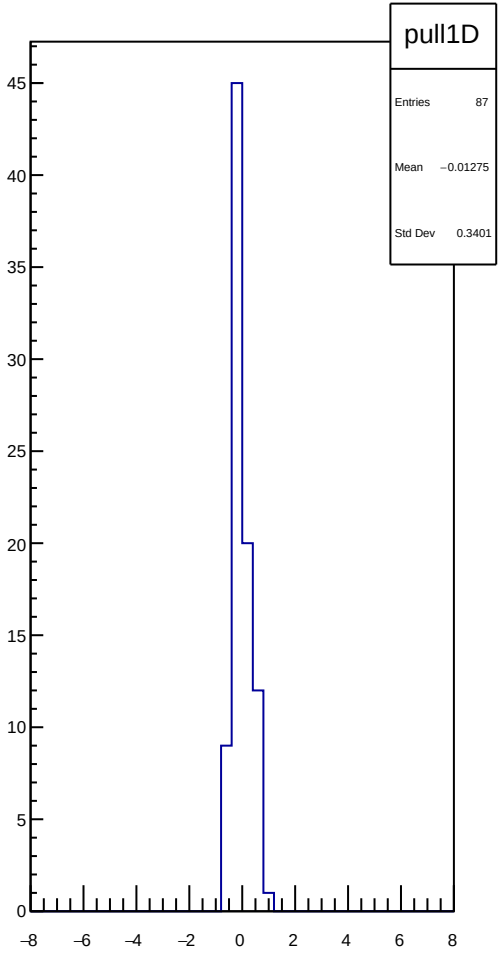

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 54.19 / 86
p0 −4.041 ± 1.018
pull
Entries 87
Mean −61.87
Std Dev 0

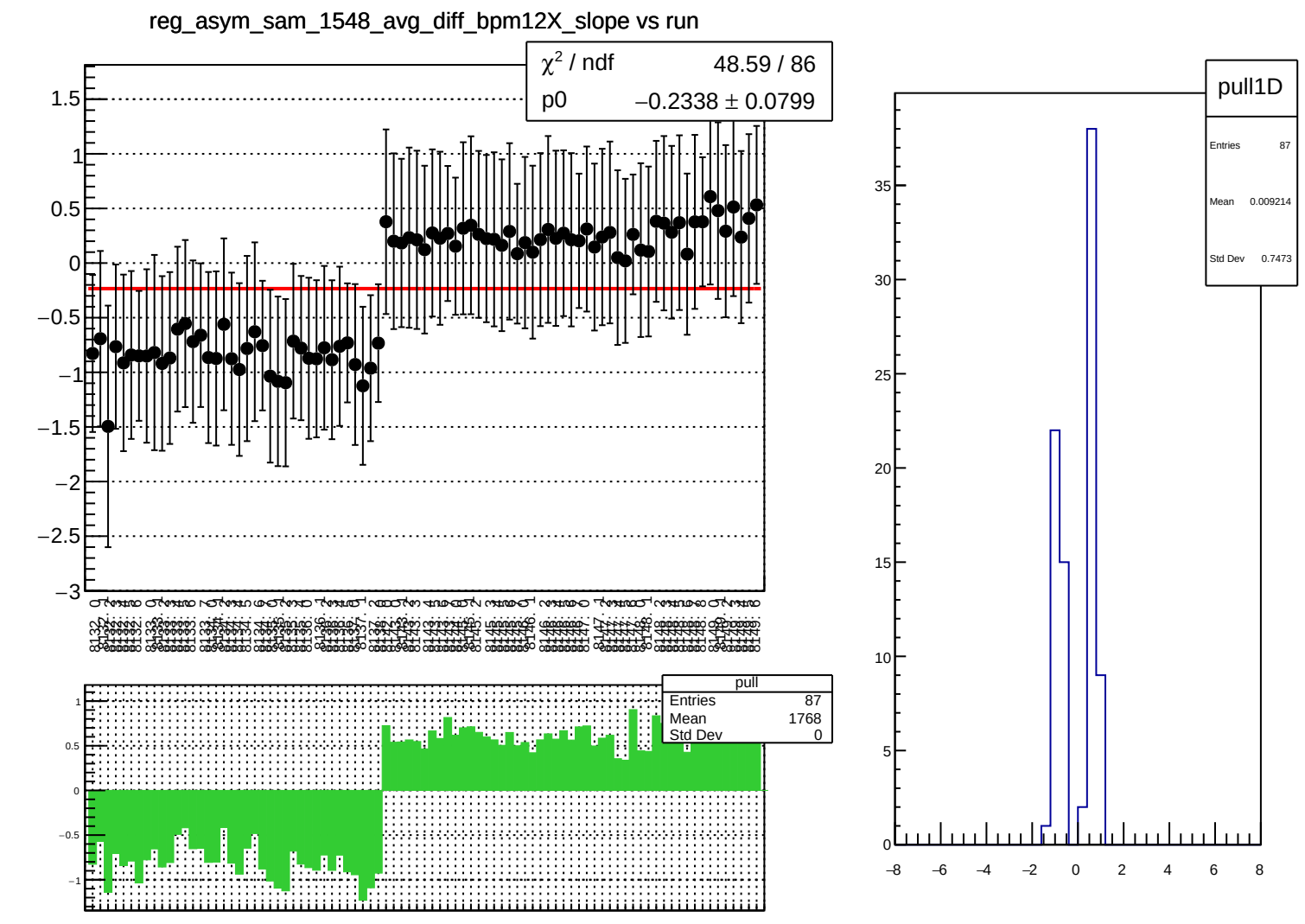

pull1D
Entries 87
Mean −0.15
Std Dev 0.7749

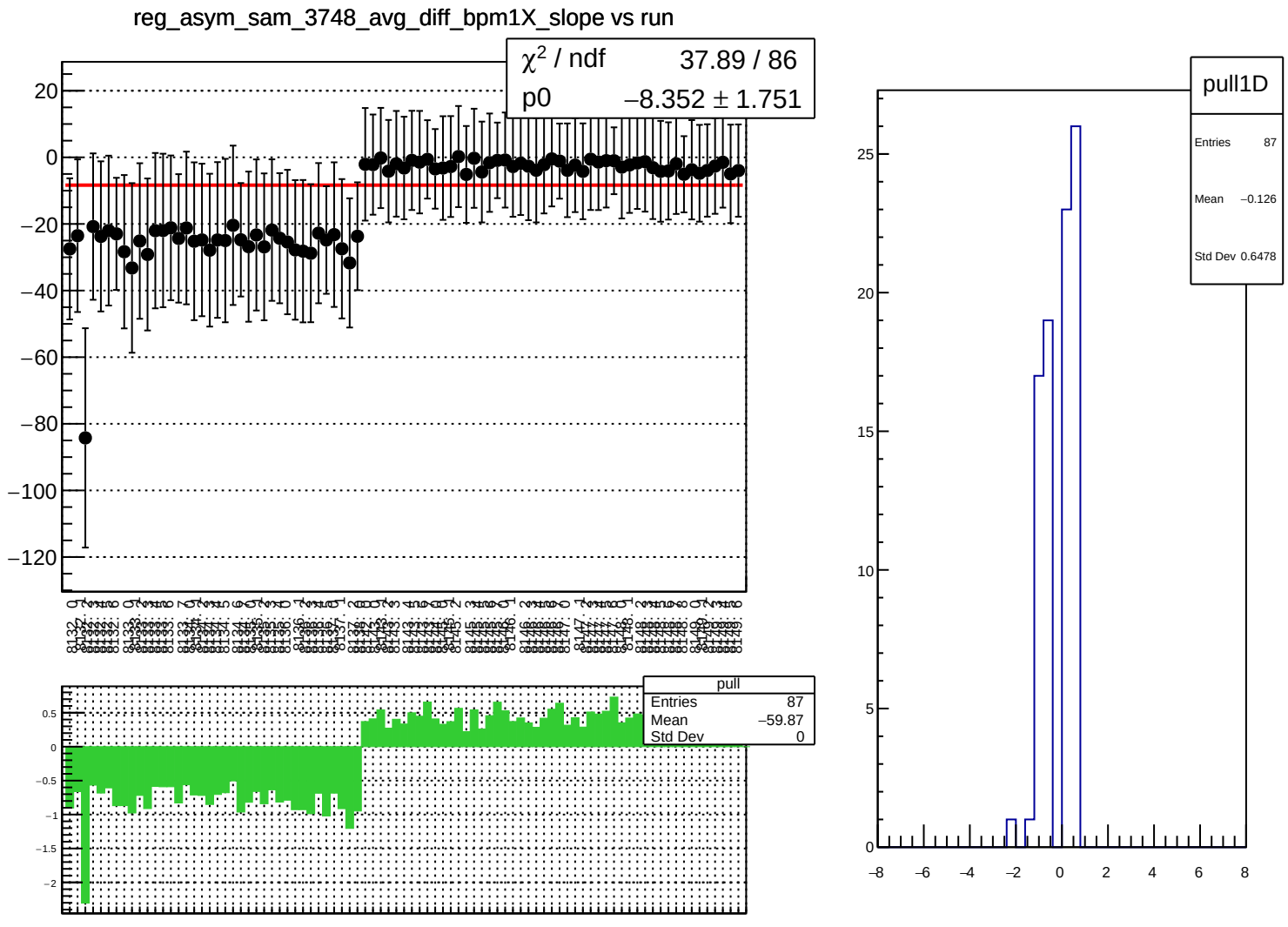

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.636 / 86
p0 39.64 ± 1.841
pull
Entries 87
Mean −101.9
Std Dev 0
pull1D
Entries 87
Mean 0.009032
Std Dev 0.2961

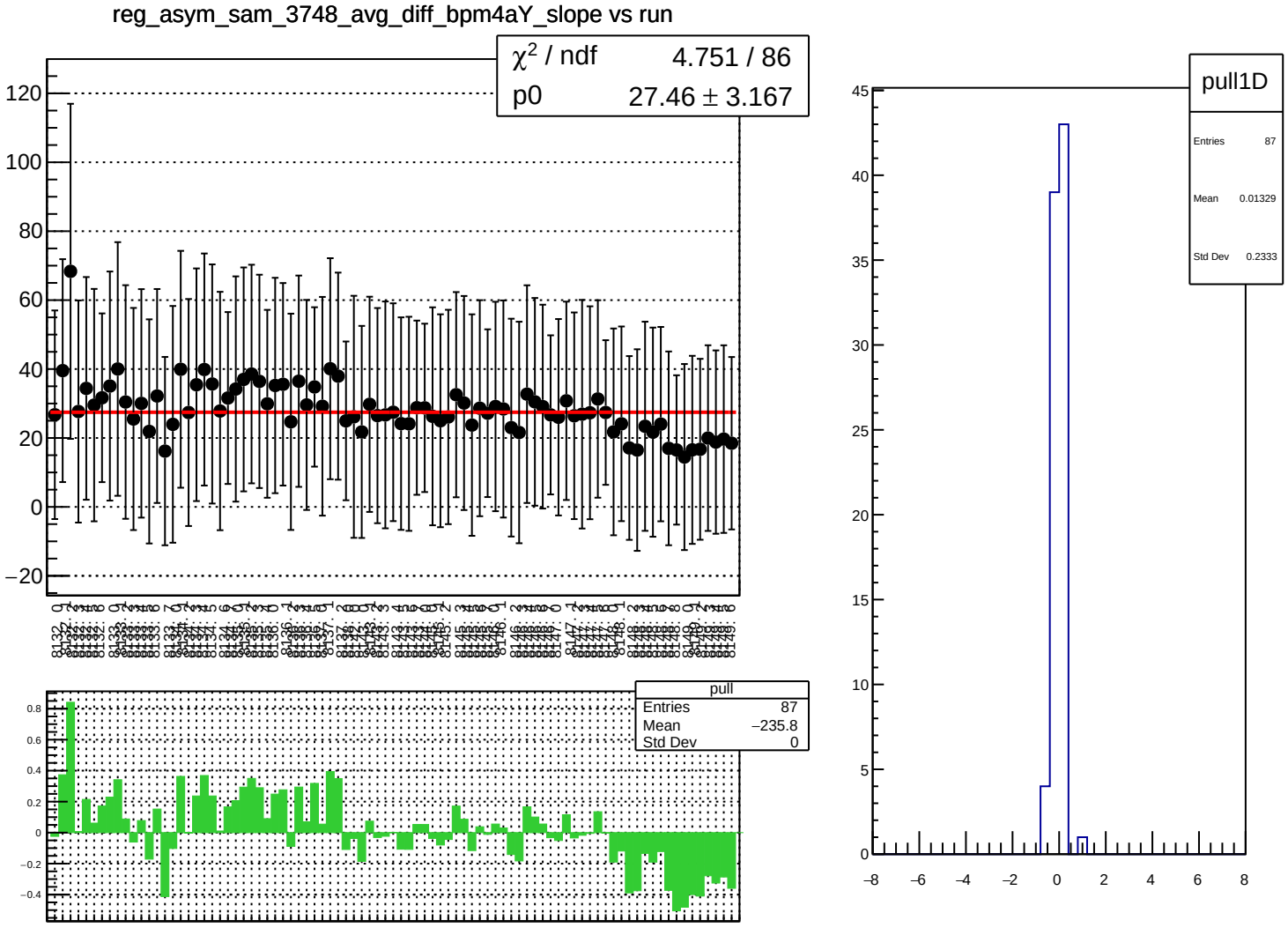

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 44.53 / 86
p0 −51.27 ± 1.012
pull
Entries 87
Mean −81.95
Std Dev 0
pull1D
Entries 87
Mean 0.1168
Std Dev 0.7058

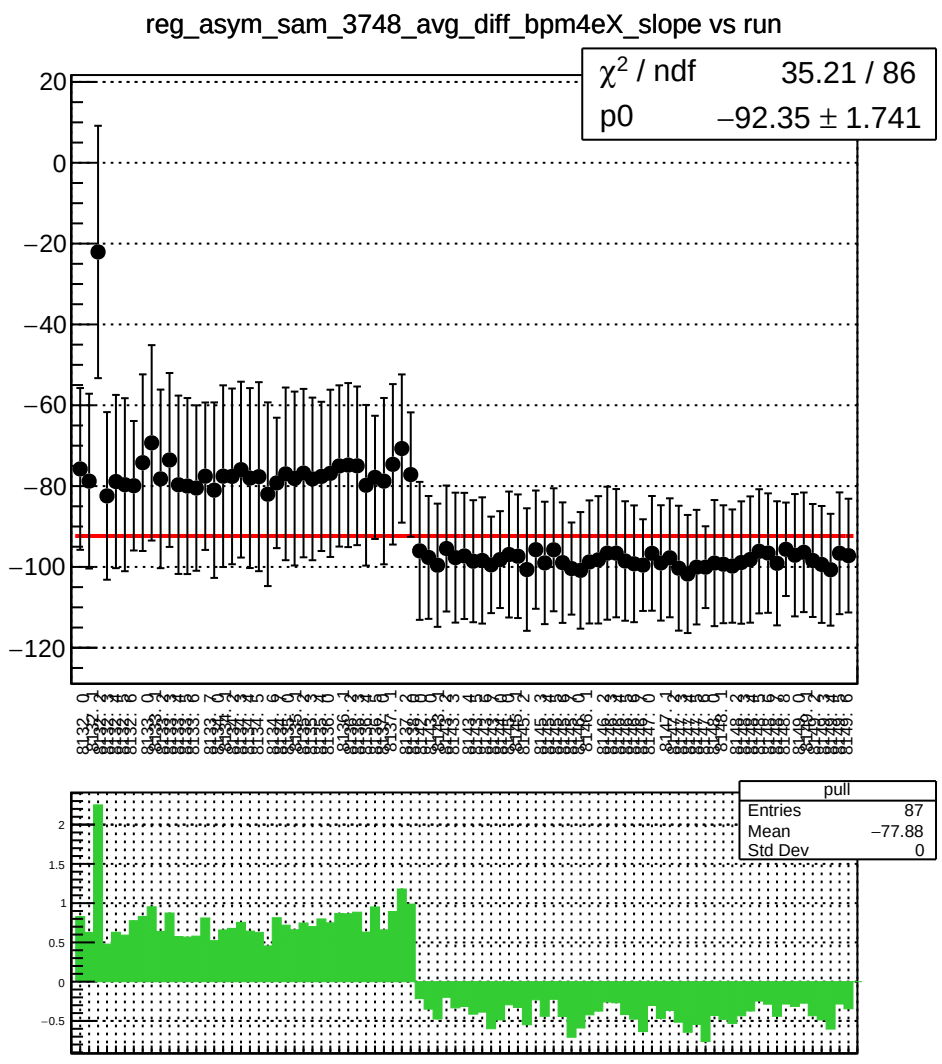

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 10.08 / 86
p0 45.42 ± 1.97
pull
Entries 87
Mean −144.5
Std Dev 0

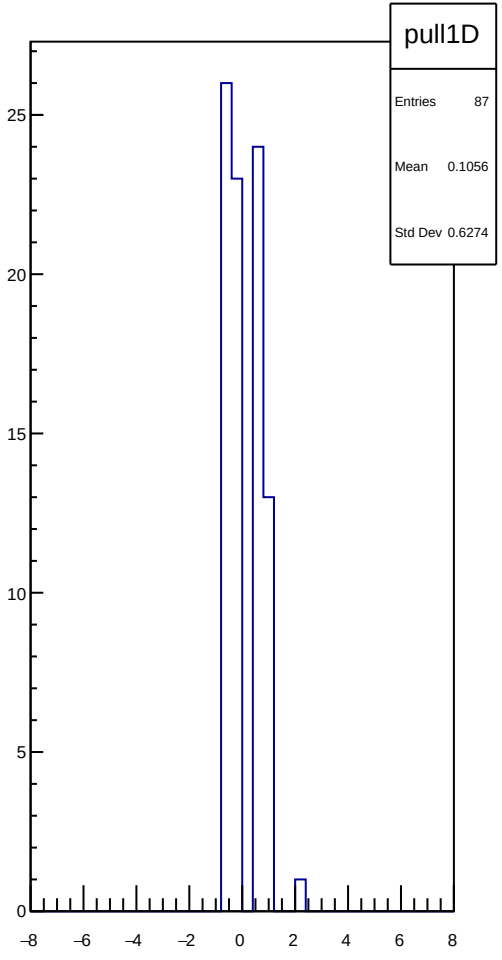

pull1D
Entries 87
Mean −0.01275
Std Dev 0.3401

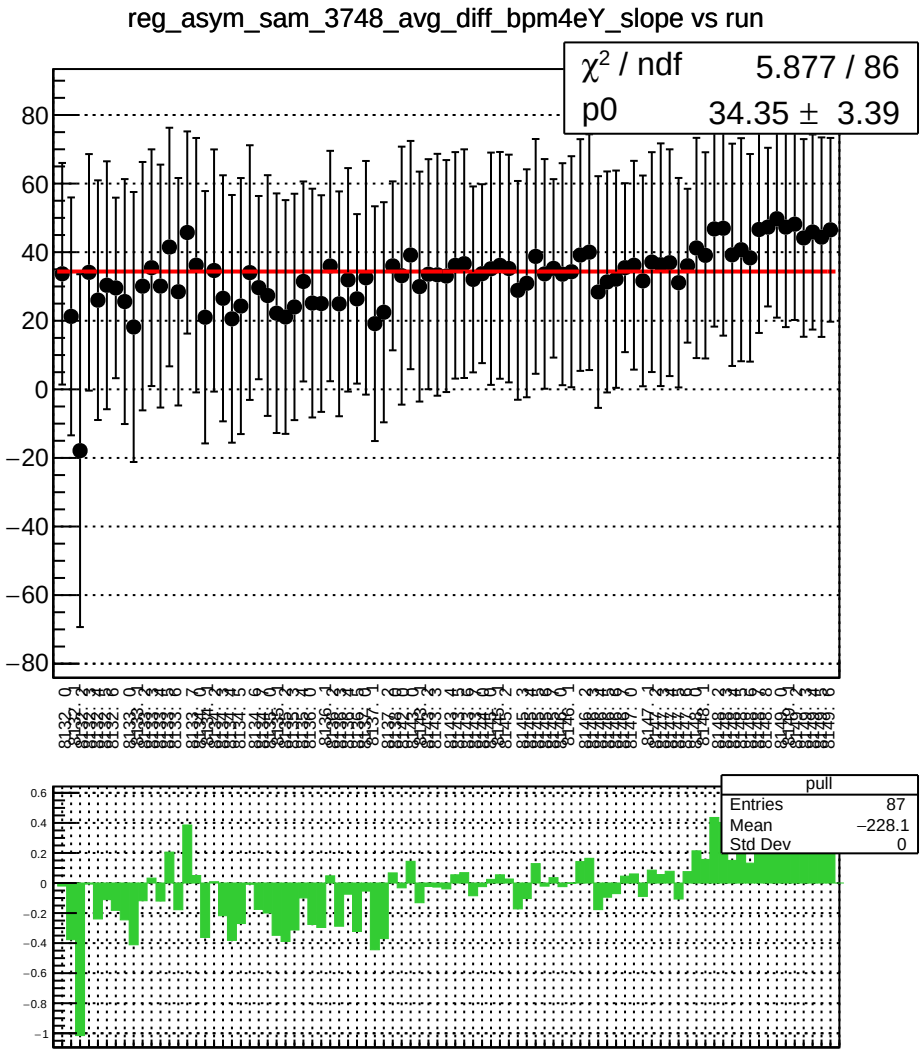

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 48.59 / 86
p0 −0.2338 ± 0.0799
pull
Entries 87
Mean 1768
Std Dev 0
pull1D
Entries 87
Mean 0.009214
Std Dev 0.7473

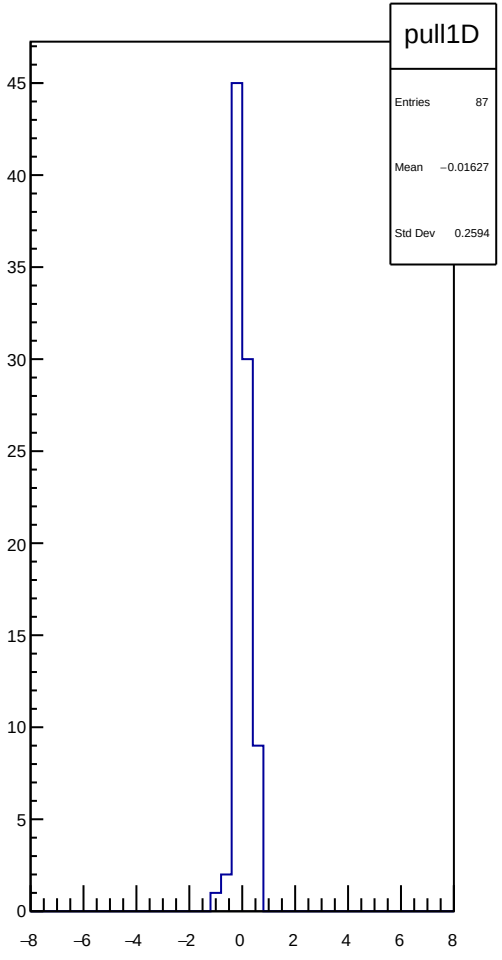

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 37.89 / 86
p0 −8.352 ± 1.751
pull
Entries 87
Mean −59.87
Std Dev 0
pull1D
Entries 87
Mean −0.126
Std Dev 0.6478

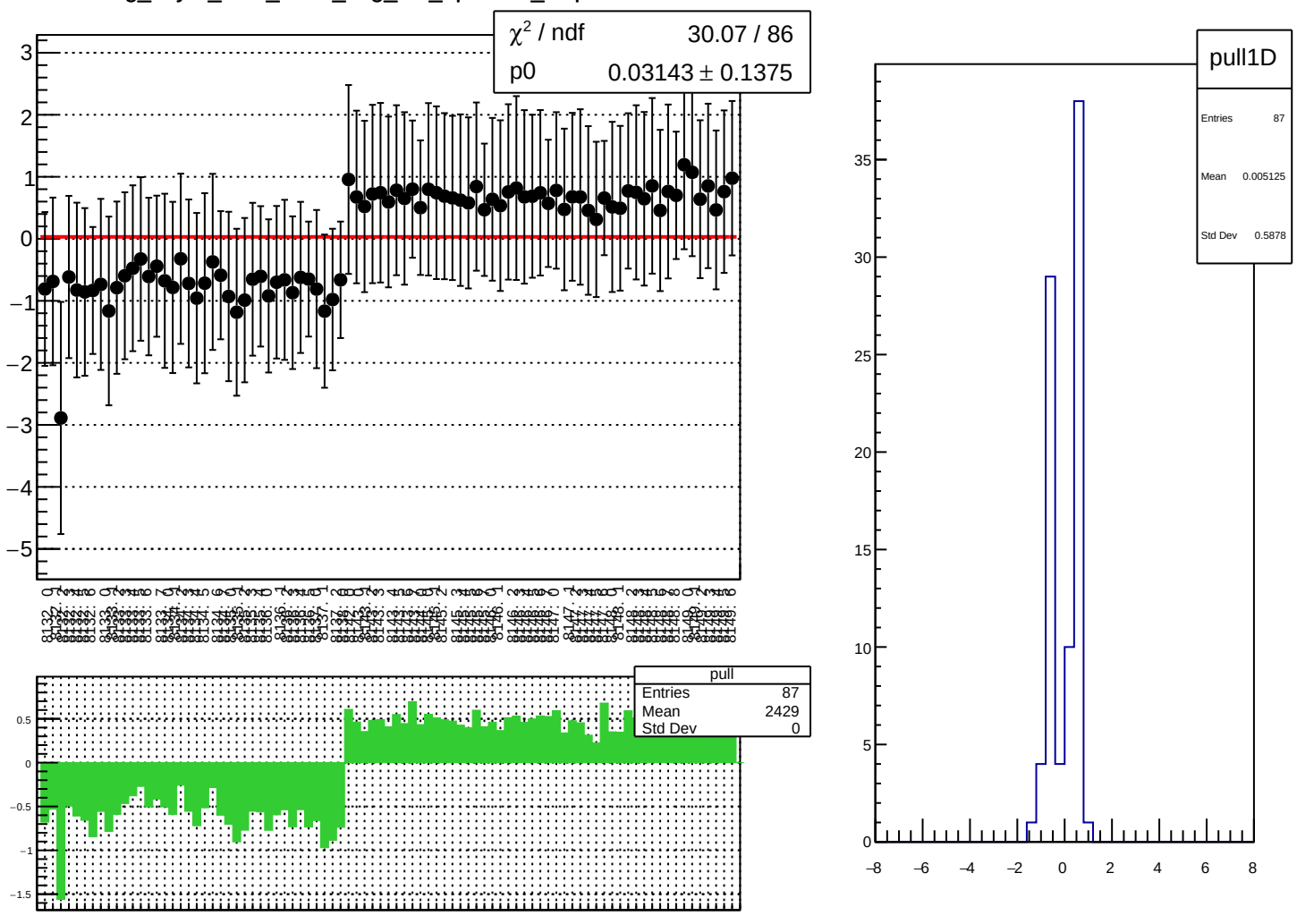

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.751 / 86
p0 27.46 ± 3.167
pull
Entries 87
Mean −235.8
Std Dev 0
pull1D
Entries 87
Mean 0.01329
Std Dev 0.2333

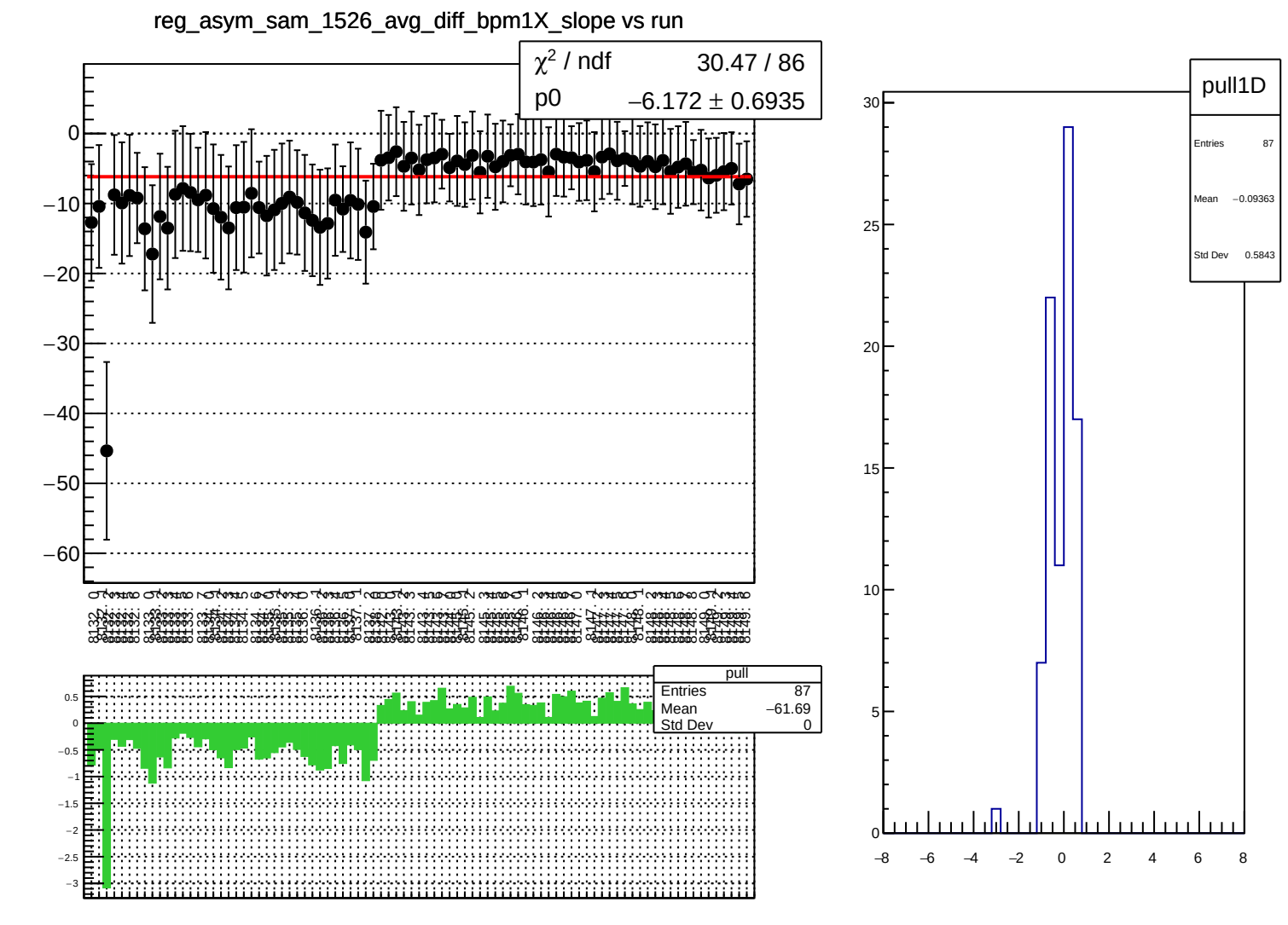

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 35.21 / 86
p0 −92.35 ± 1.741
pull
Entries 87
Mean −77.88
Std Dev 0

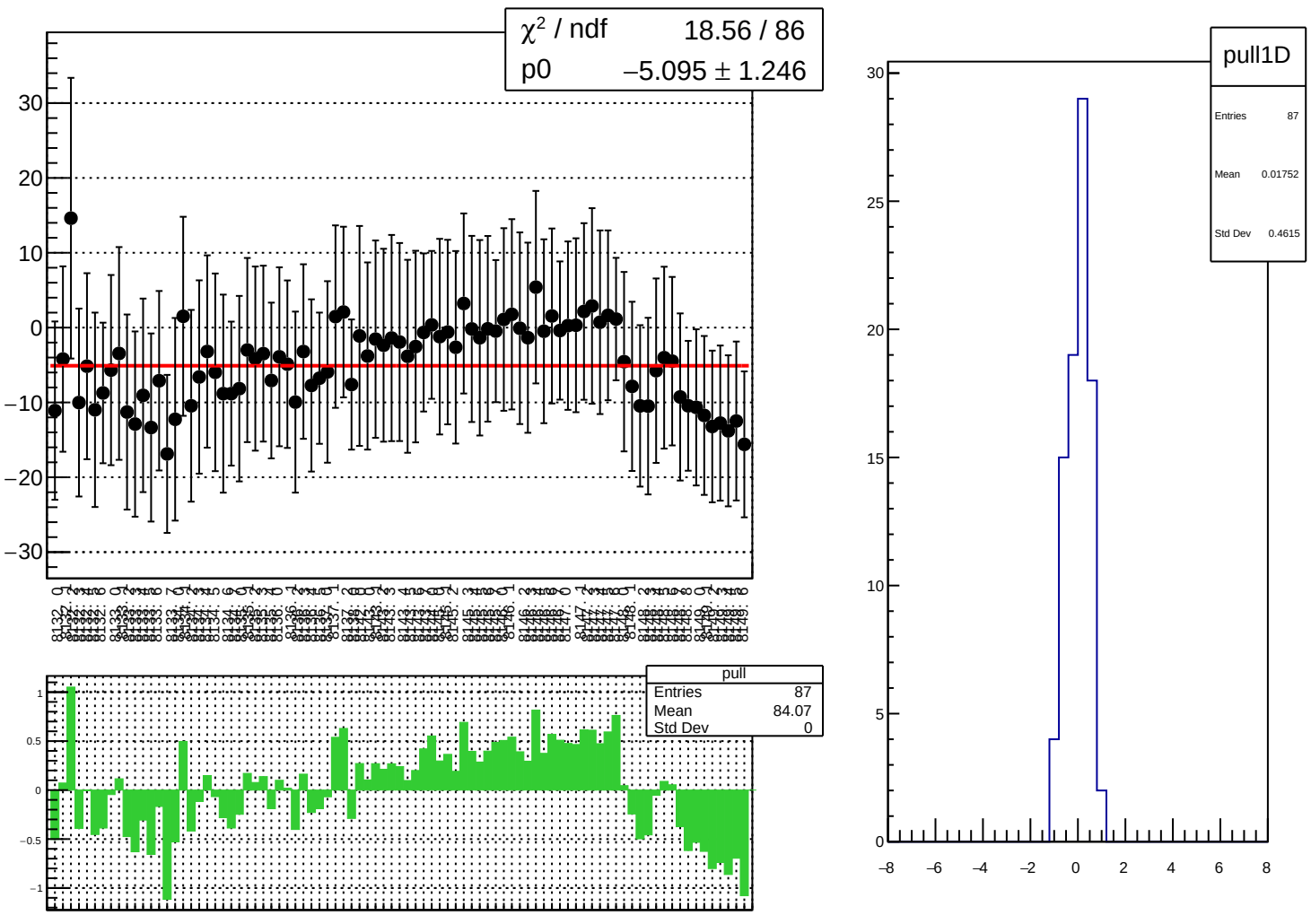

pull1D
Entries 87
Mean 0.1056
Std Dev 0.6274

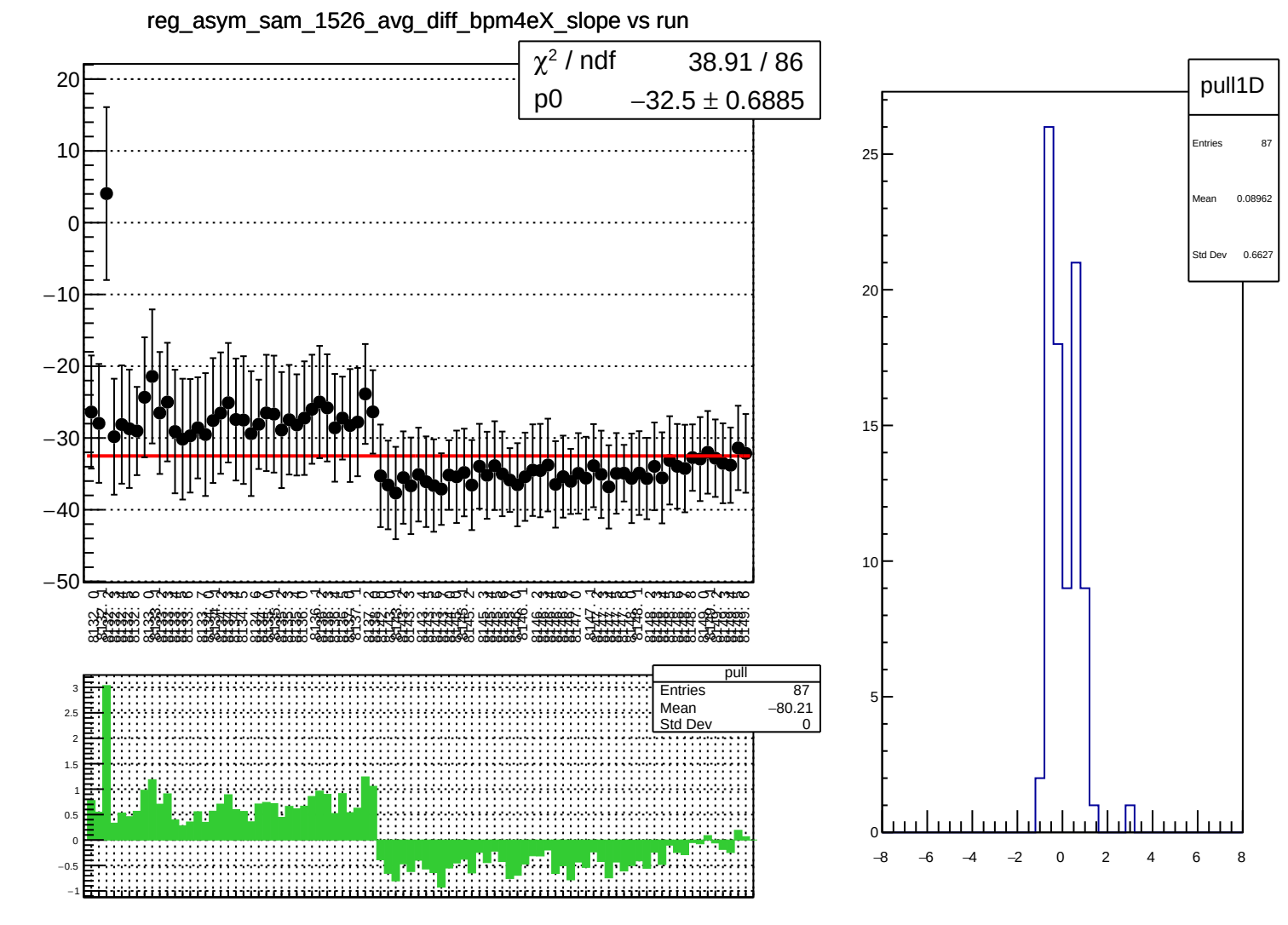

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.877 / 86
p0 34.35 ± 3.39
pull
Entries 87
Mean −228.1
Std Dev 0

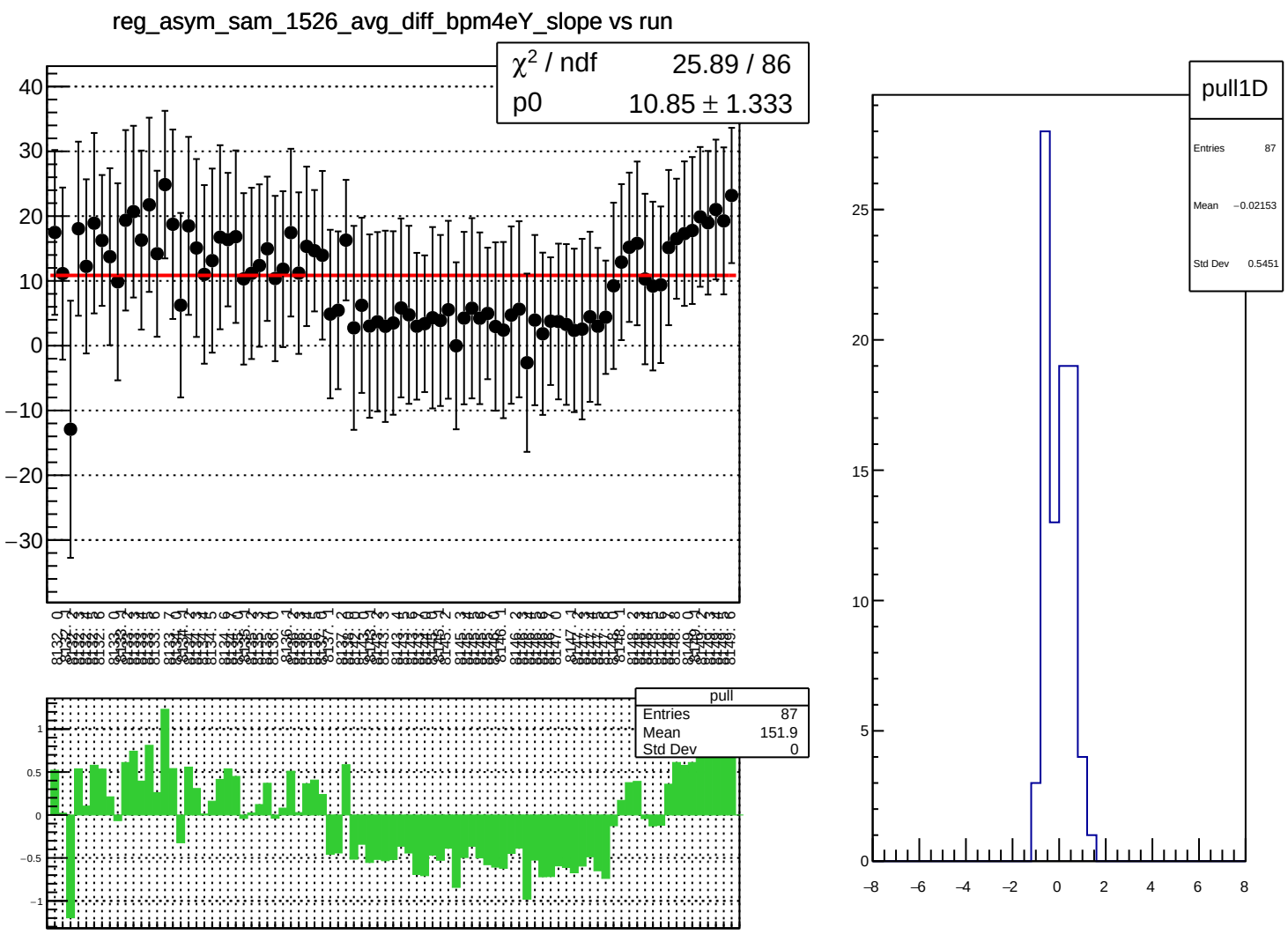

pull1D
Entries 87
Mean −0.01627
Std Dev 0.2594

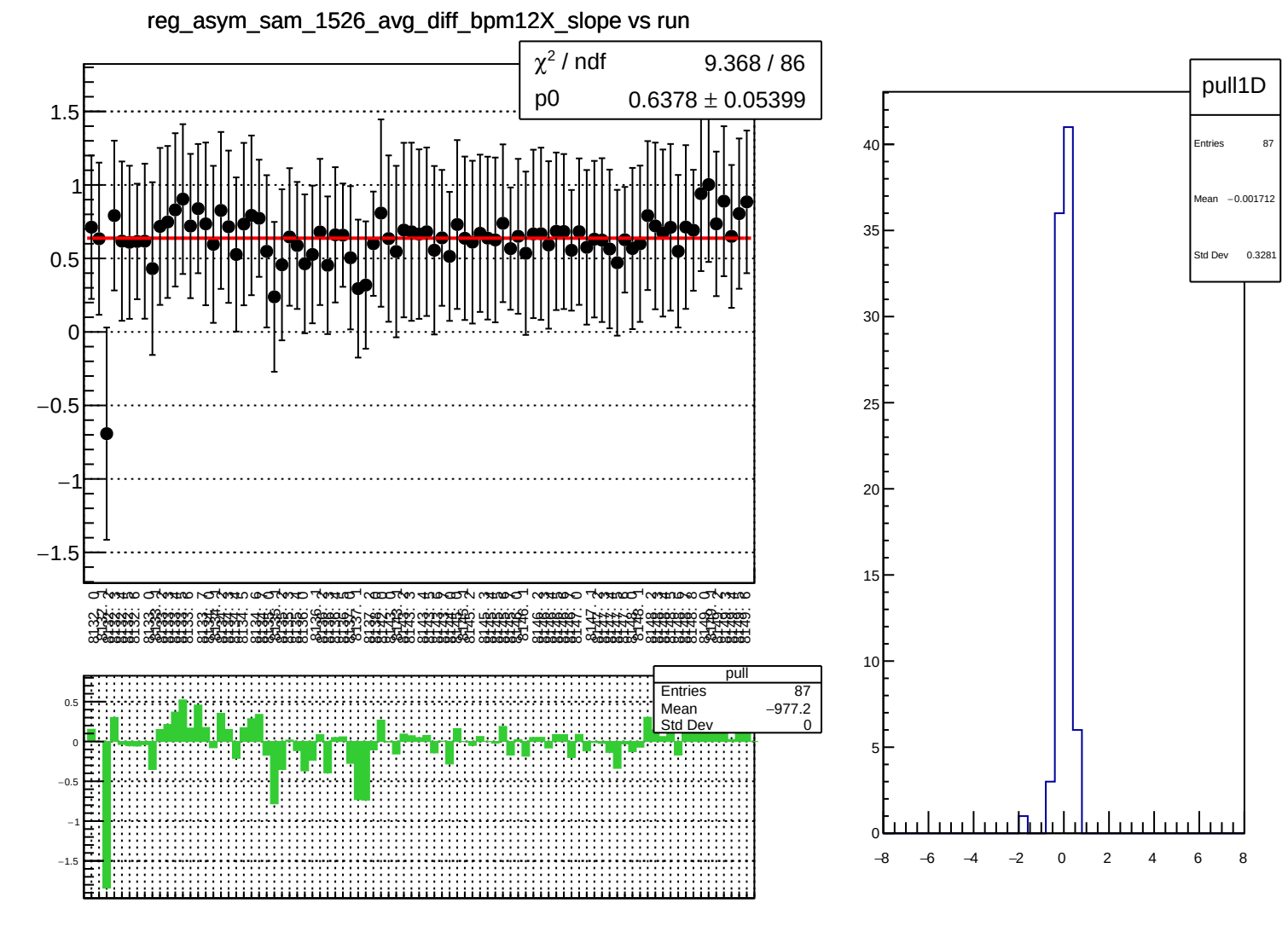

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 30.07 / 86
p0 0.03143 ± 0.1375
pull
Entries 87
Mean 2429
Std Dev 0
pull1D
Entries 87
Mean 0.005125
Std Dev 0.5878

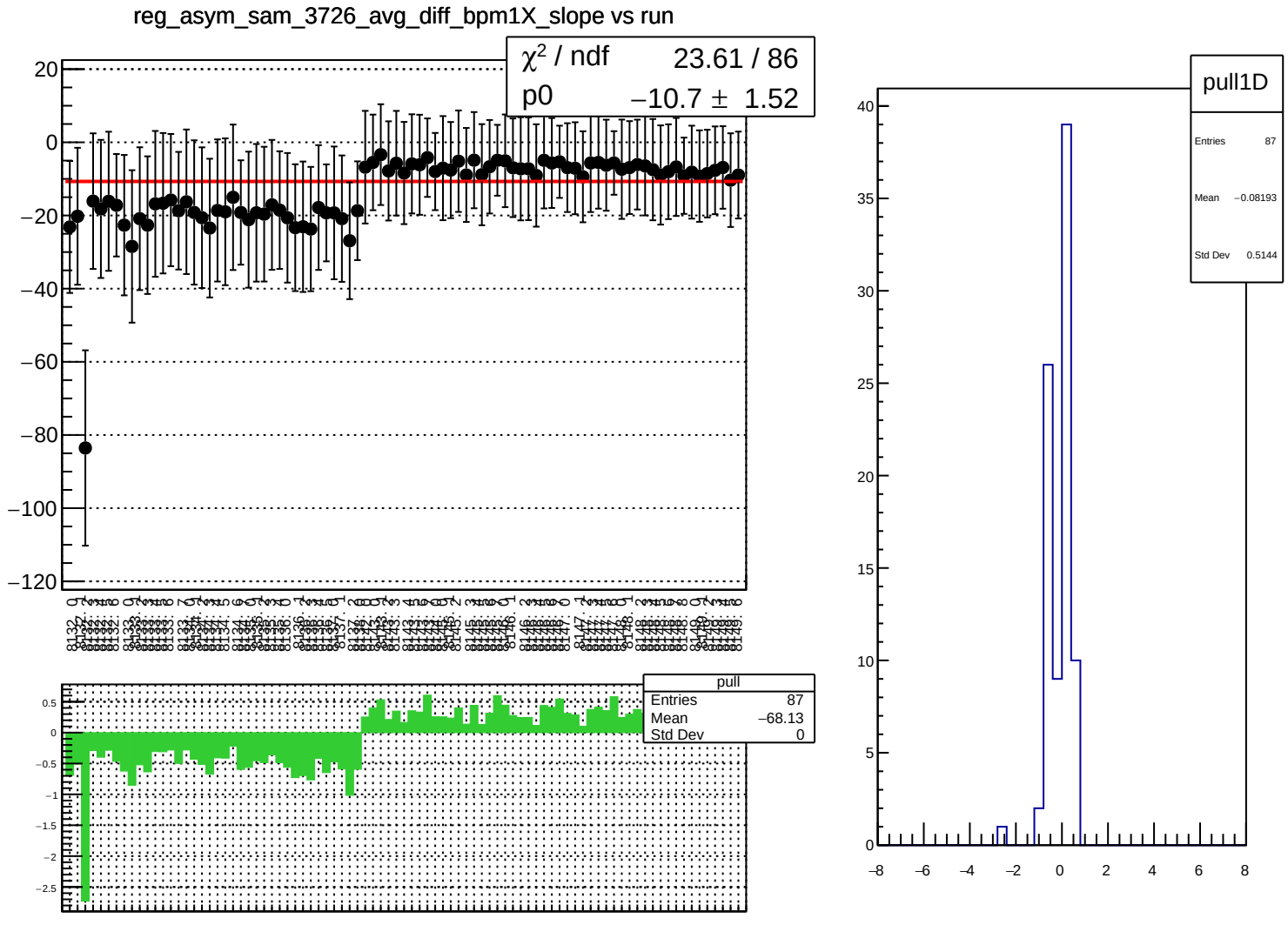

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 30.47 / 86
p0 −6.172 ± 0.6935
pull
Entries 87
Mean −61.69
Std Dev 0
pull1D
Entries 87
Mean −0.09363
Std Dev 0.5843

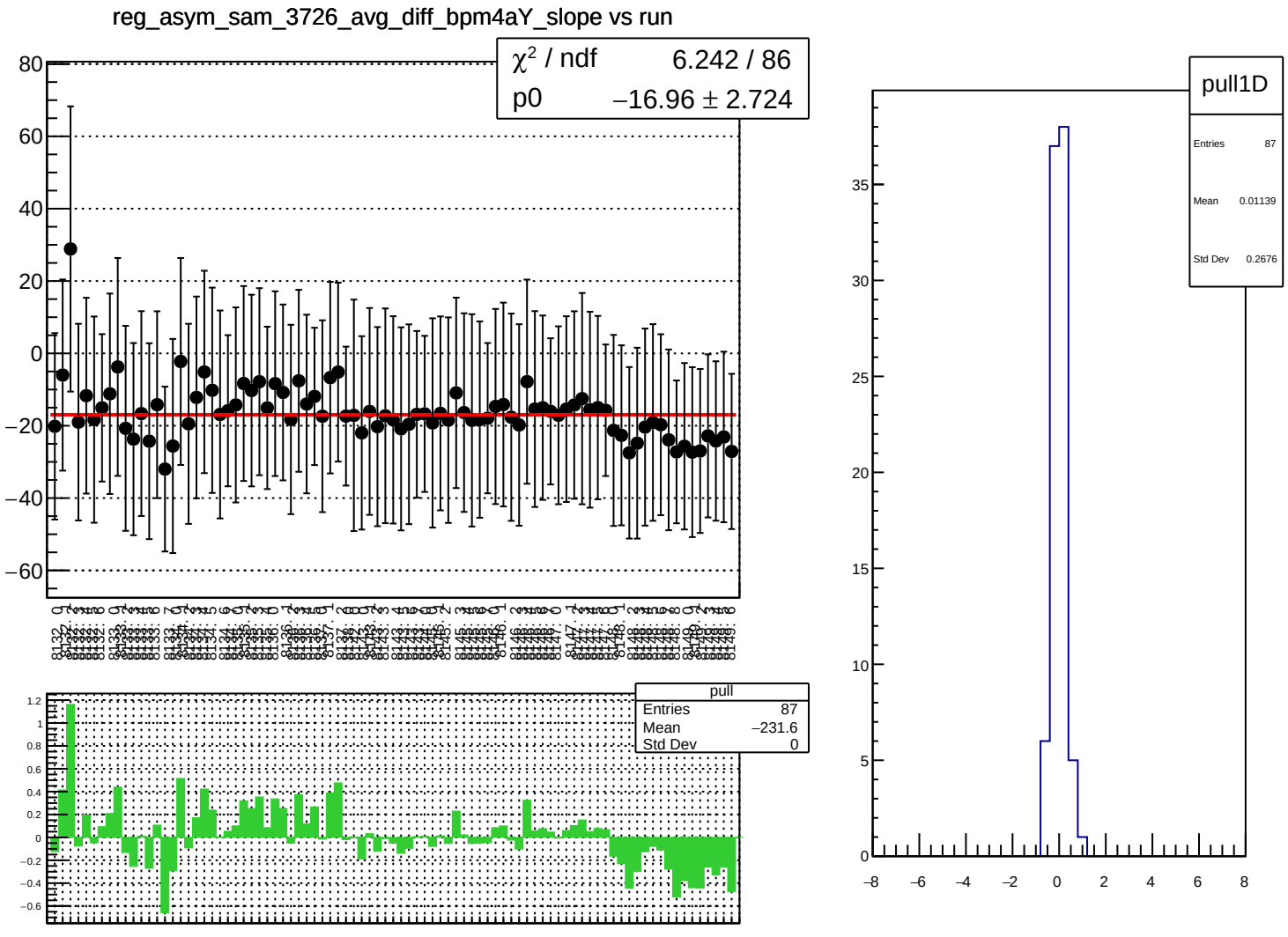

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 18.56 / 86
p0 −5.095 ± 1.246
pull
Entries 87
Mean 84.07
Std Dev 0
pull1D
Entries 87
Mean 0.01752
Std Dev 0.4615

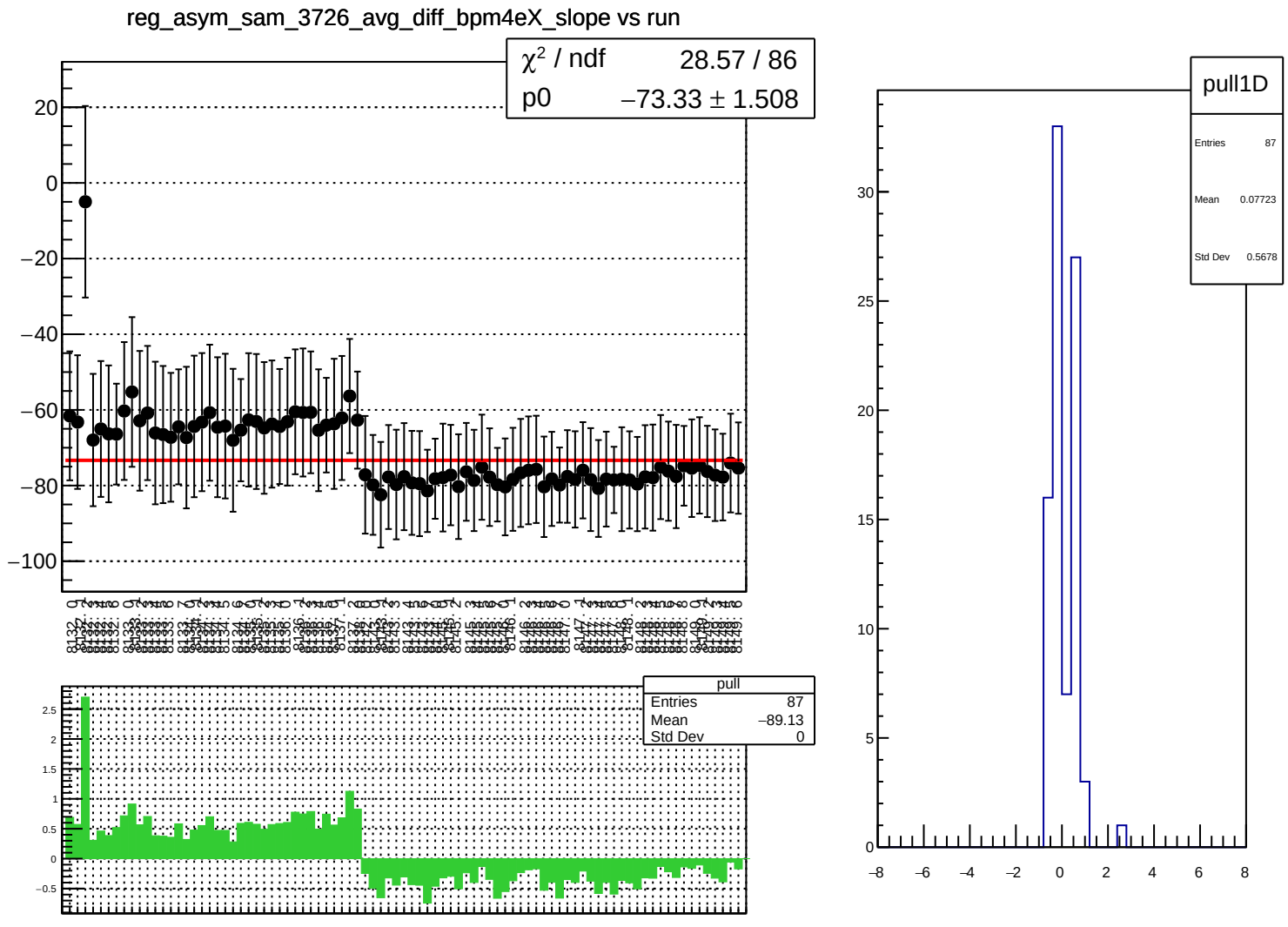

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 38.91 / 86
p0 −32.5 ± 0.6885
pull
Entries 87
Mean −80.21
Std Dev 0
pull1D
Entries 87
Mean 0.08962
Std Dev 0.6627

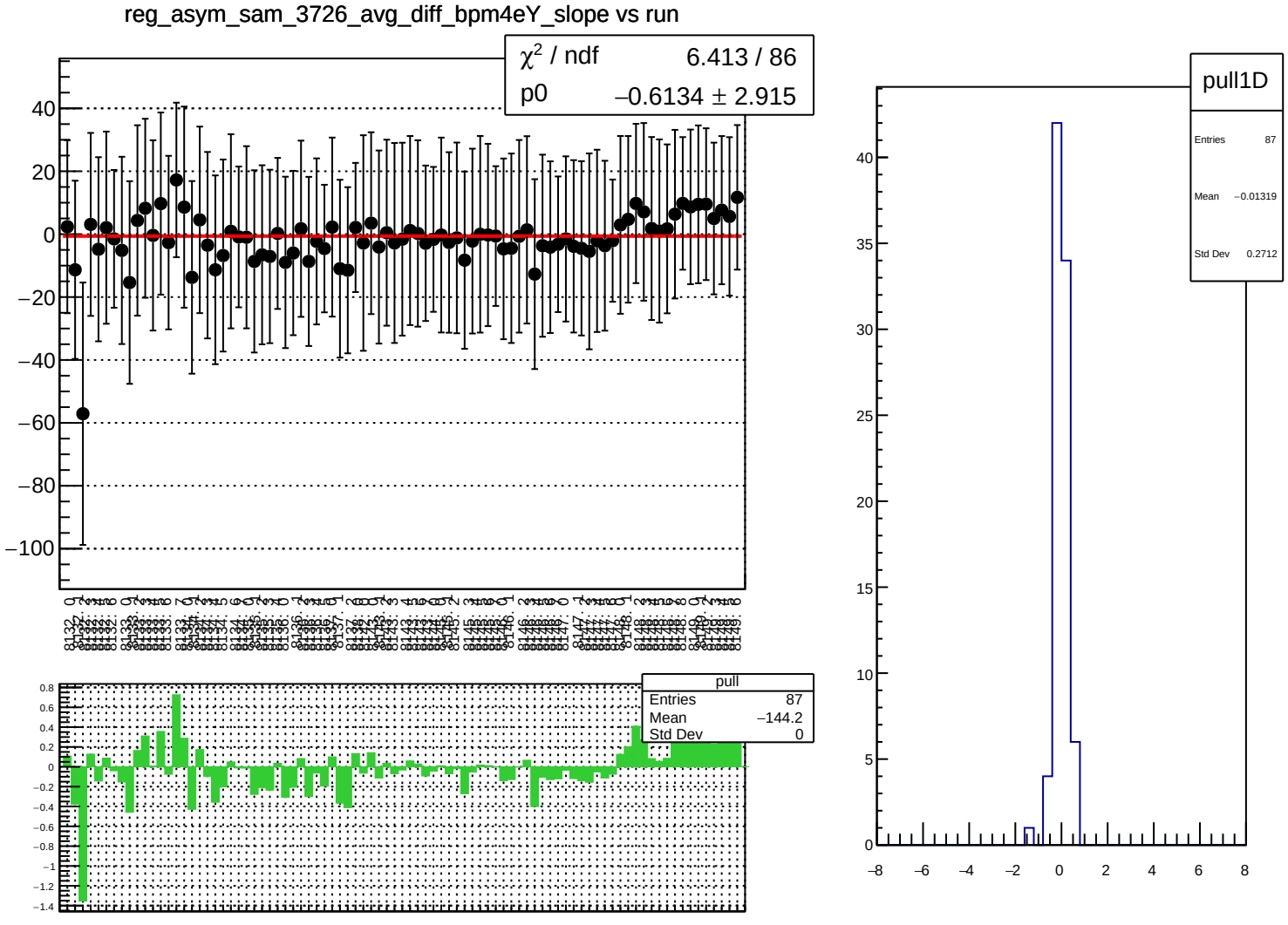

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 25.89 / 86
p0 10.85 ± 1.333
pull
Entries 87
Mean 151.9
Std Dev 0
pull1D
Entries 87
Mean −0.02153
Std Dev 0.5451

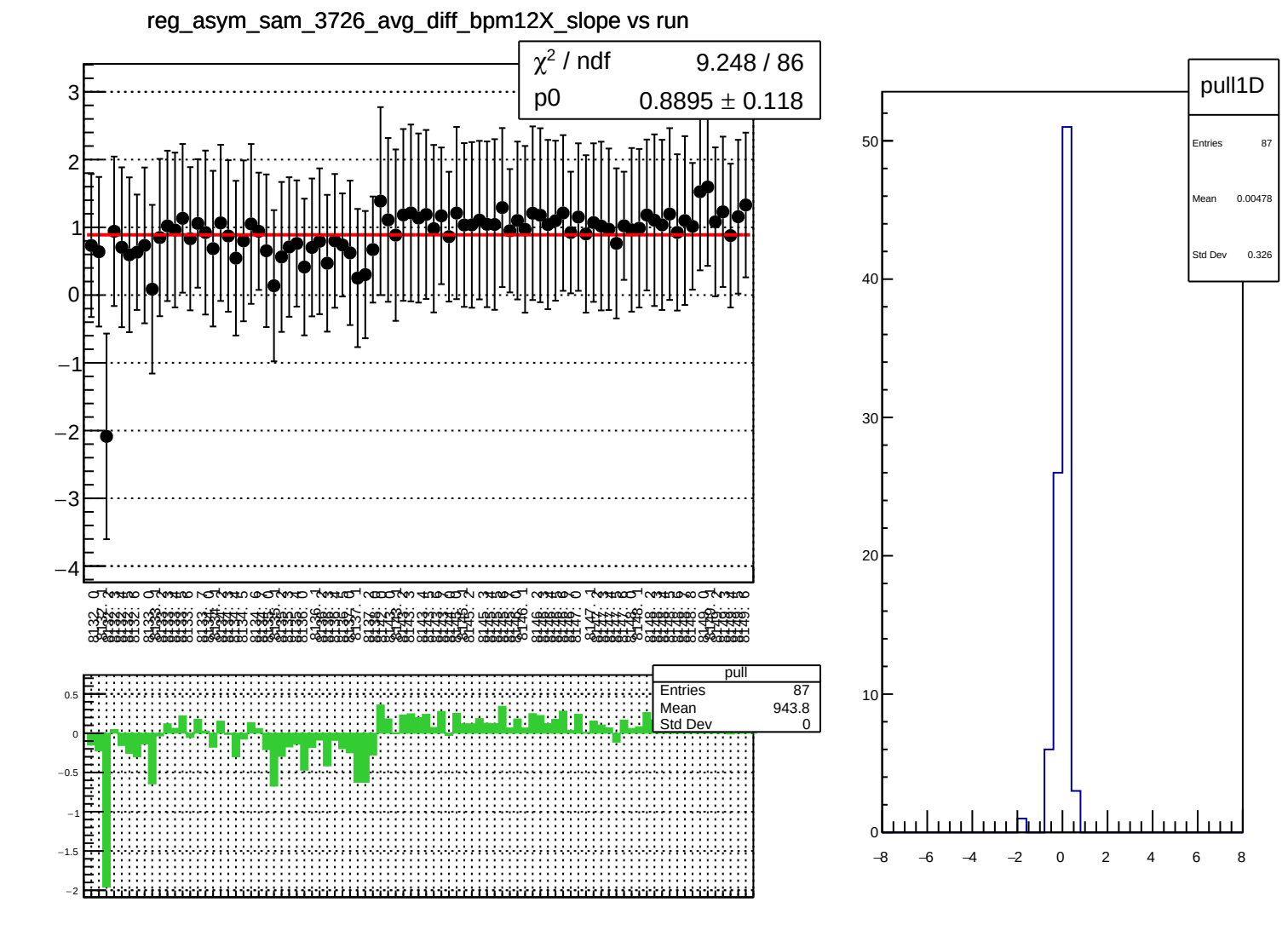

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 9.368 / 86
p0 0.6378 ± 0.05399
pull
Entries 87
Mean −977.2
Std Dev 0
pull1D
Entries 87
Mean −0.001712
Std Dev 0.3281

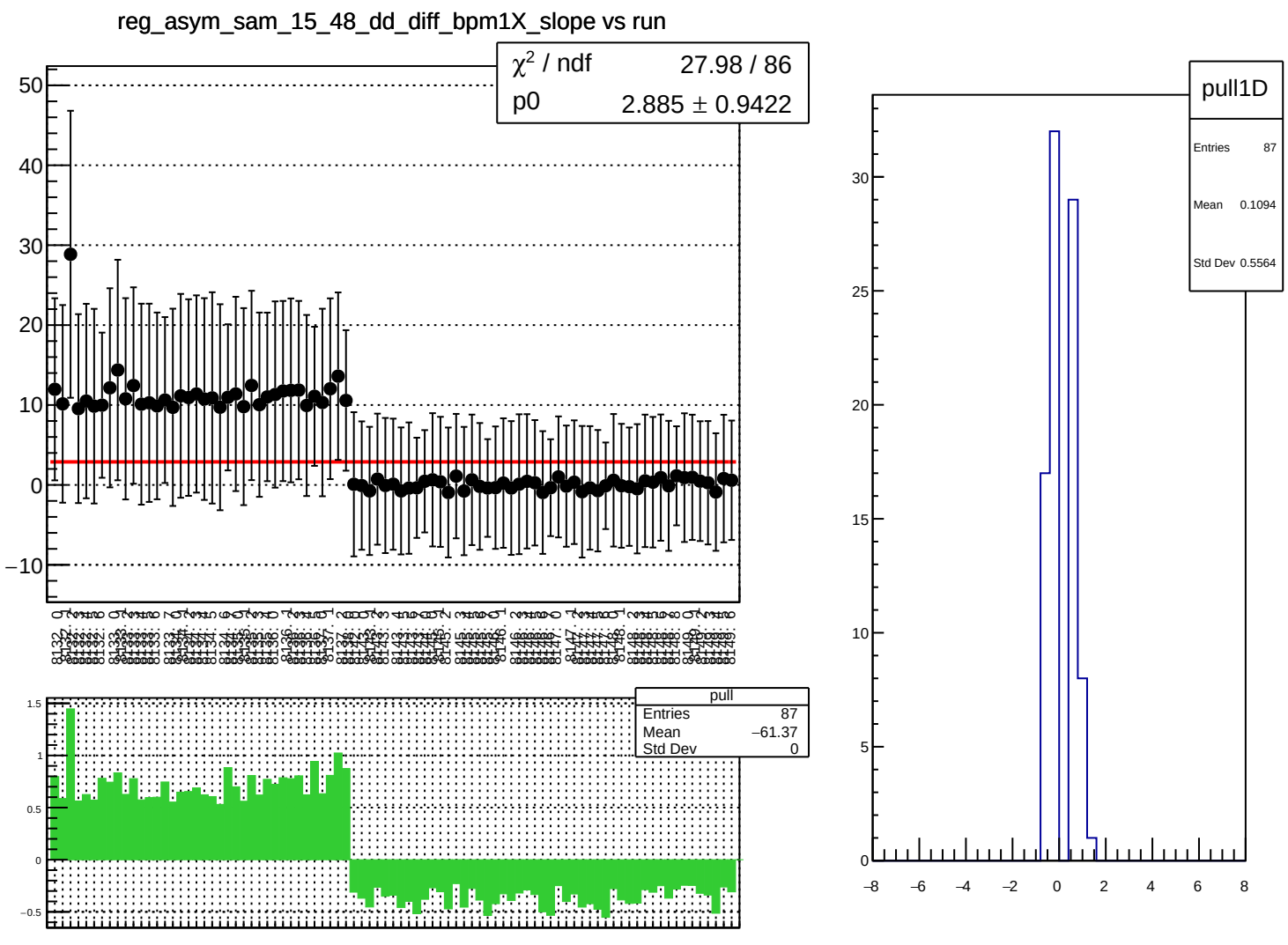

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 23.61 / 86
p0 −10.7 ± 1.52
pull
Entries 87
Mean −68.13
Std Dev 0
pull1D
Entries 87
Mean −0.08193
Std Dev 0.5144

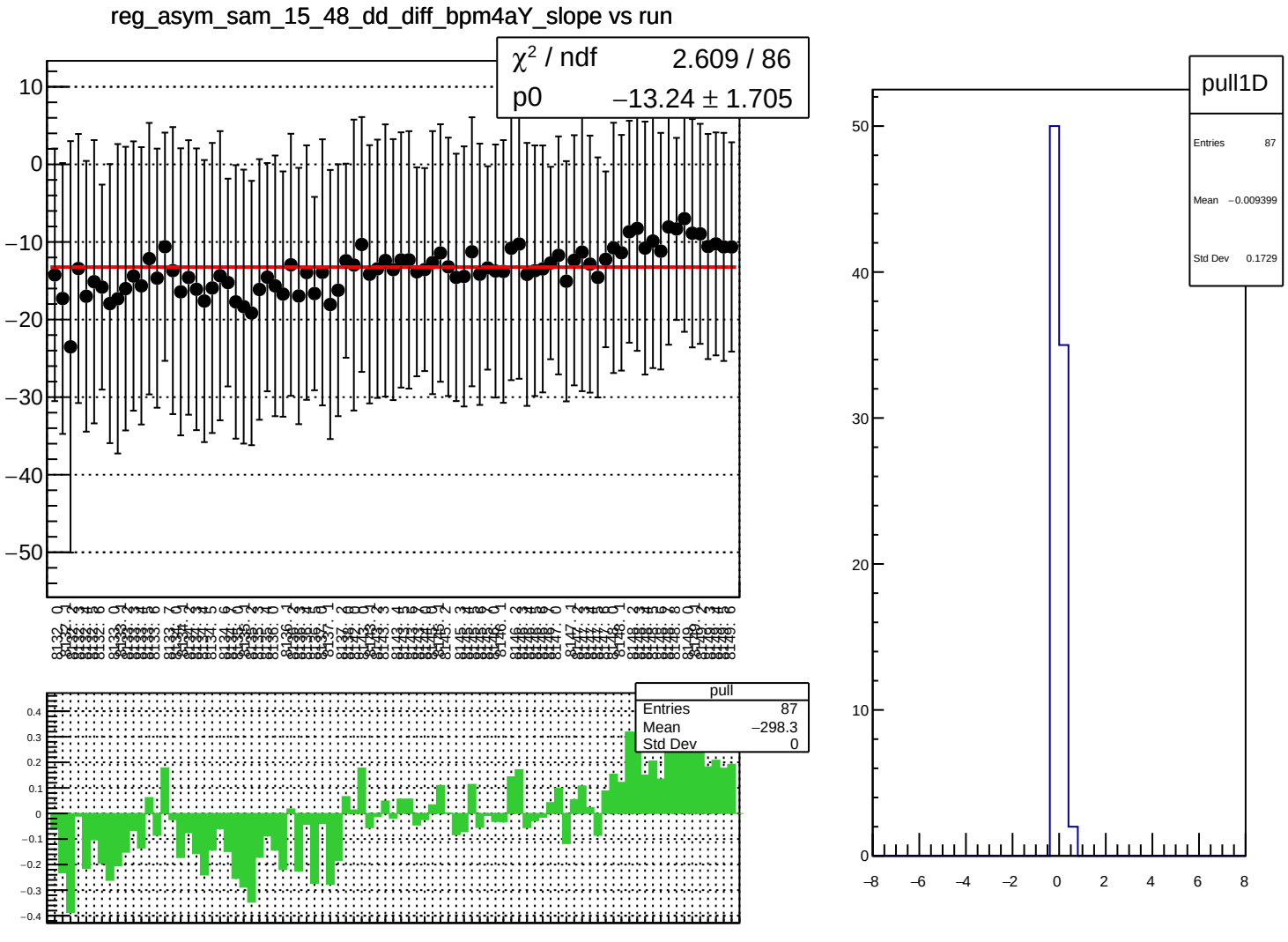

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.242 / 86
p0 −16.96 ± 2.724
pull
Entries 87
Mean −231.6
Std Dev 0
pull1D
Entries 87
Mean 0.01139
Std Dev 0.2676

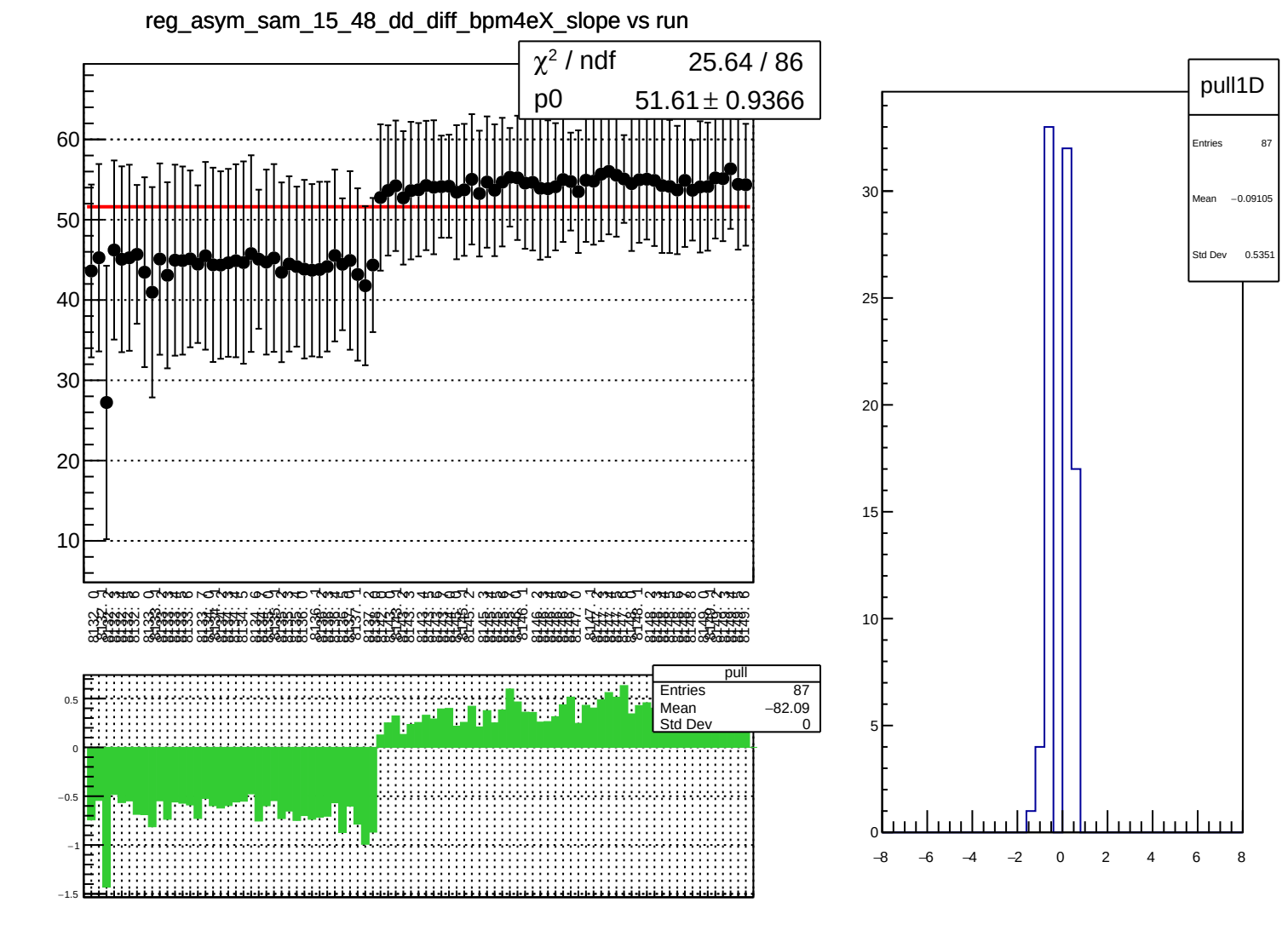

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 28.57 / 86
p0 −73.33 ± 1.508
pull
Entries 87
Mean −89.13
Std Dev 0
pull1D
Entries 87
Mean 0.07723
Std Dev 0.5678

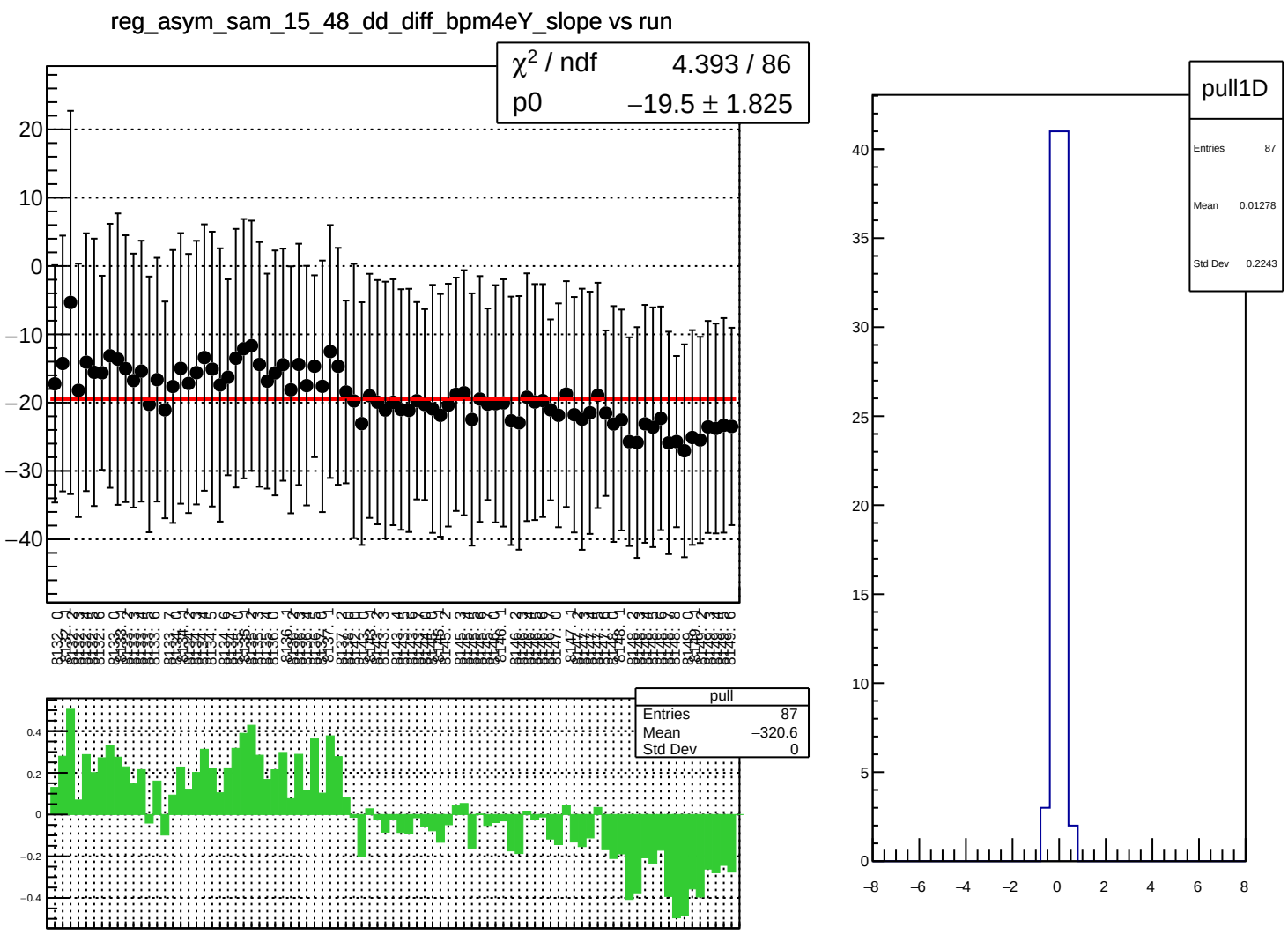

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.413 / 86
p0 −0.6134 ± 2.915
pull
Entries 87
Mean −144.2
Std Dev 0
pull1D
Entries 87
Mean −0.01319
Std Dev 0.2712

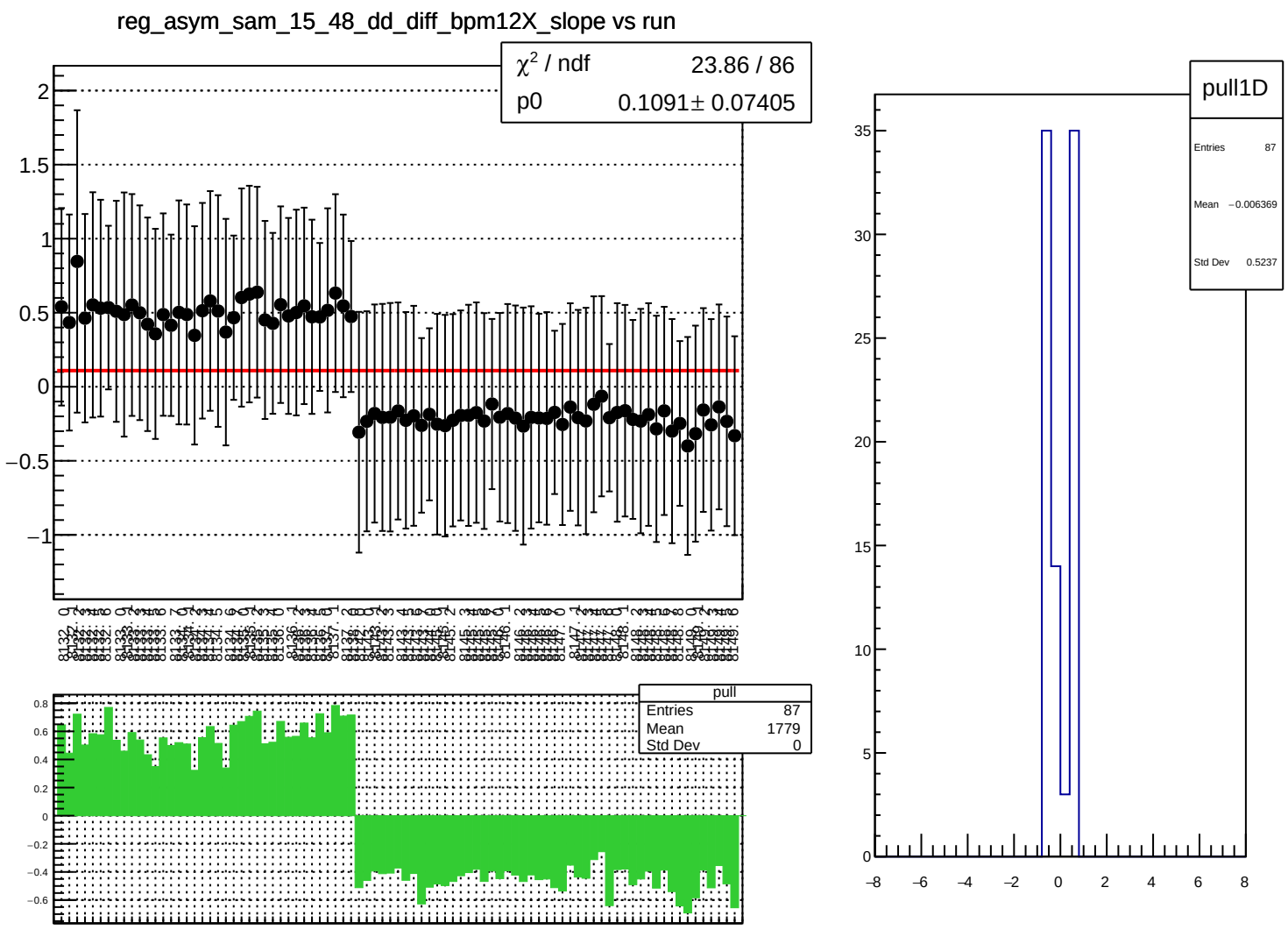

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 9.248 / 86
p0 0.8895 ± 0.118
pull
Entries 87
Mean 943.8
Std Dev 0
pull1D
Entries 87
Mean 0.00478
Std Dev 0.326

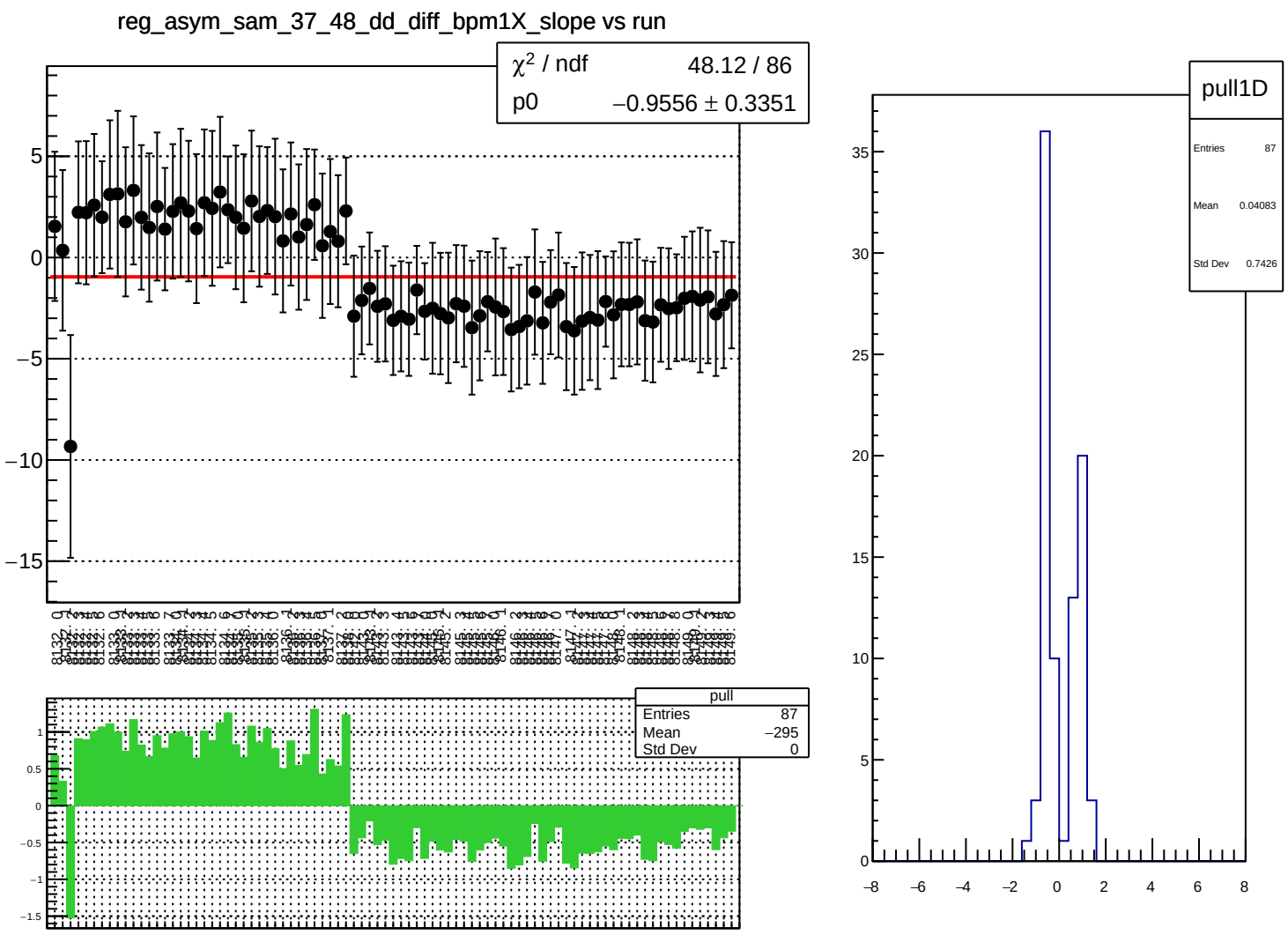

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 27.98 / 86
p0 2.885 ± 0.9422
pull
Entries 87
Mean −61.37
Std Dev 0
pull1D
Entries 87
Mean 0.1094
Std Dev 0.5564

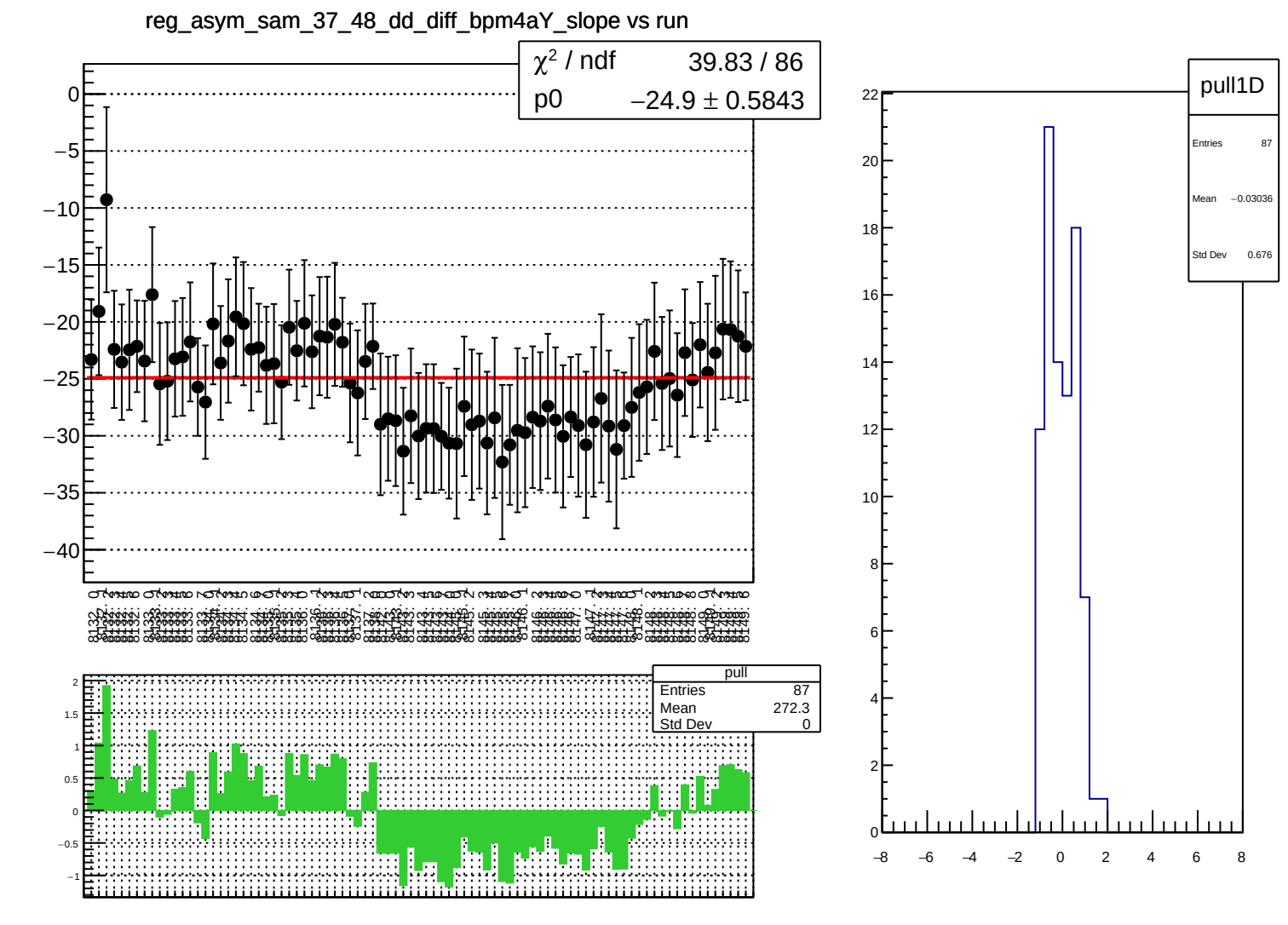

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.609 / 86
p0 −13.24 ± 1.705
pull
Entries 87
Mean −298.3
Std Dev 0
pull1D
Entries 87
Mean −0.009399
Std Dev 0.1729

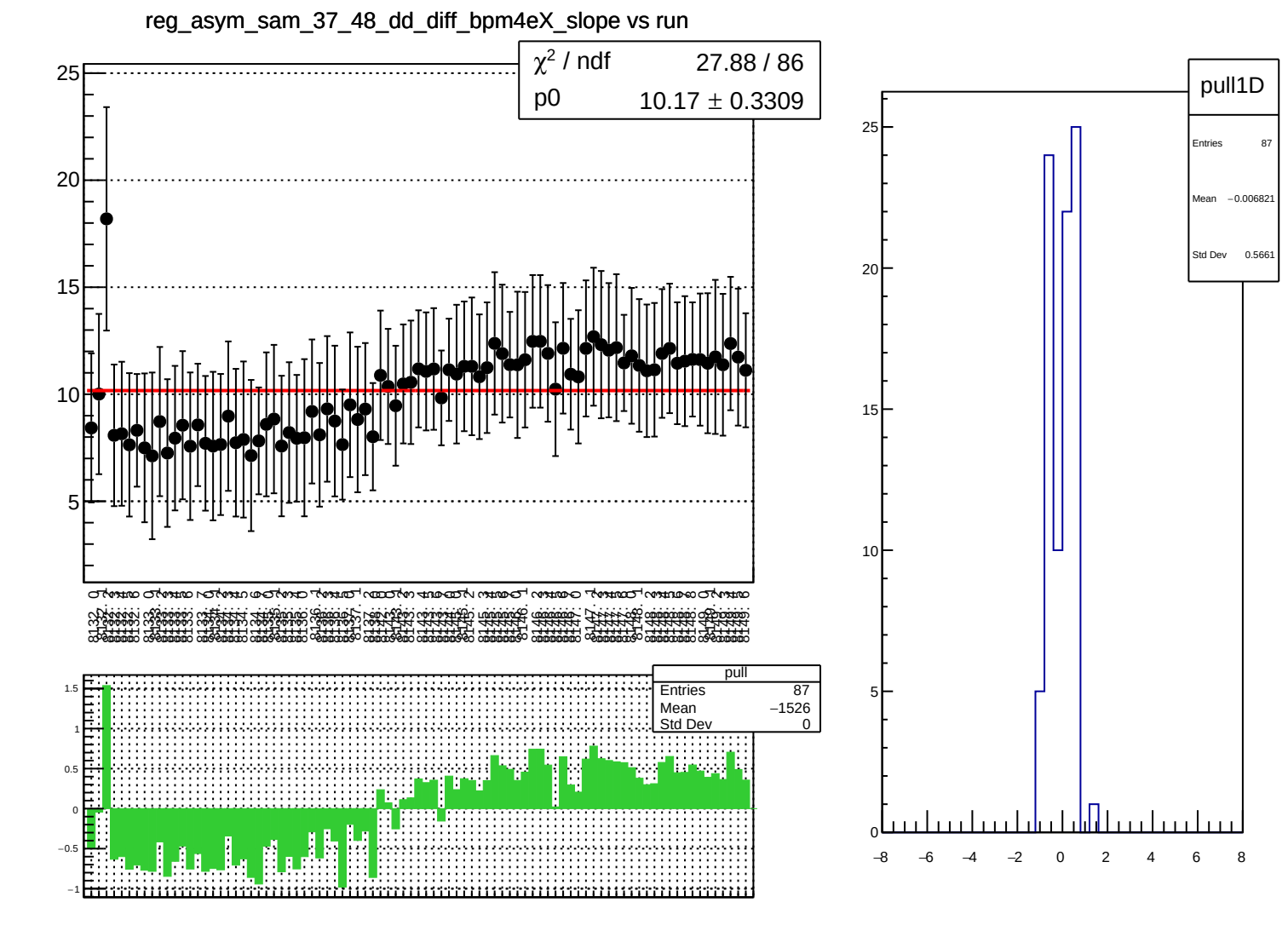

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 25.64 / 86
p0 51.61 ± 0.9366
pull
Entries 87
Mean −82.09
Std Dev 0
pull1D
Entries 87
Mean −0.09105
Std Dev 0.5351

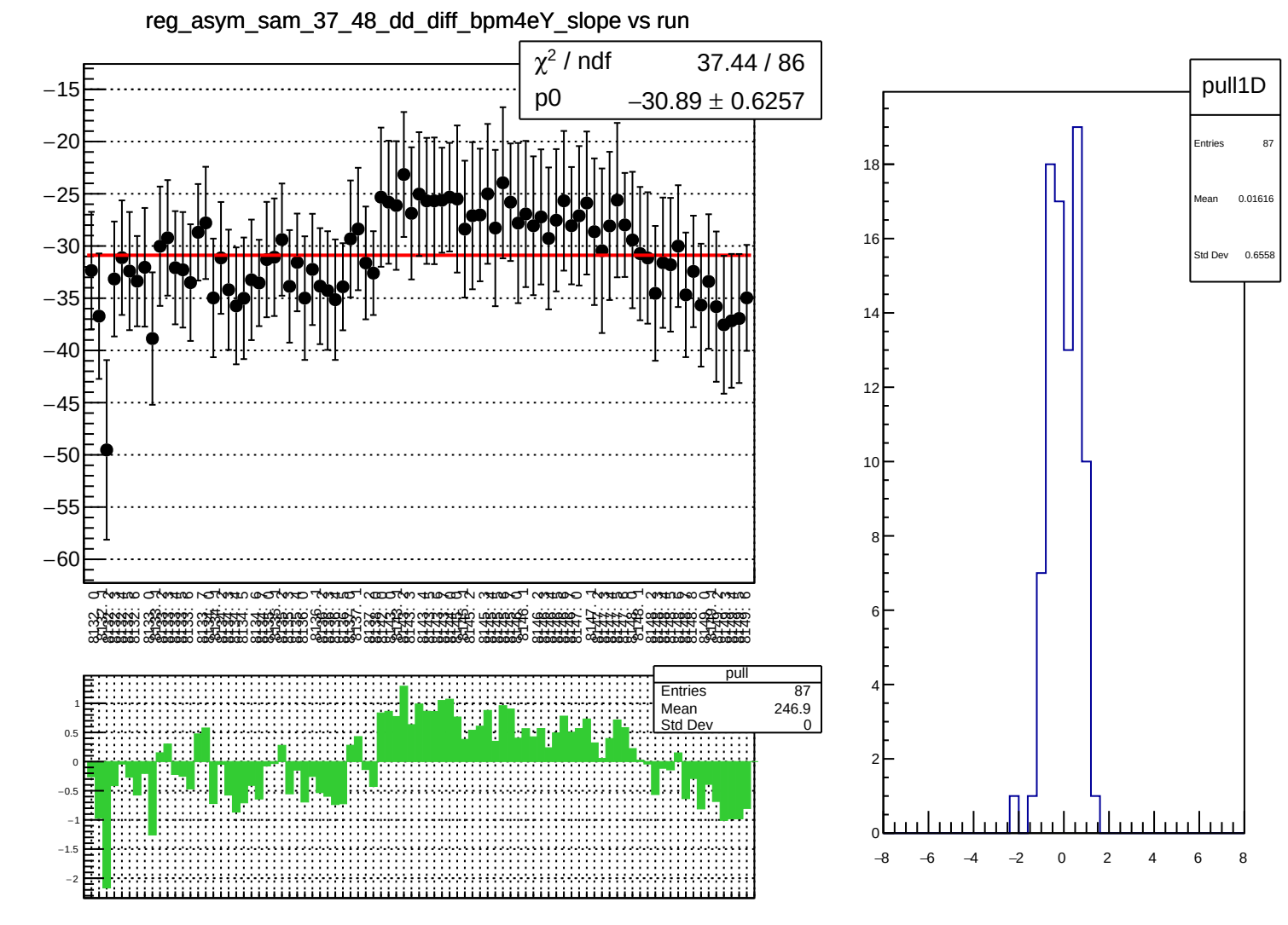

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.393 / 86
p0 −19.5 ± 1.825
pull
Entries 87
Mean −320.6
Std Dev 0
pull1D
Entries 87
Mean 0.01278
Std Dev 0.2243

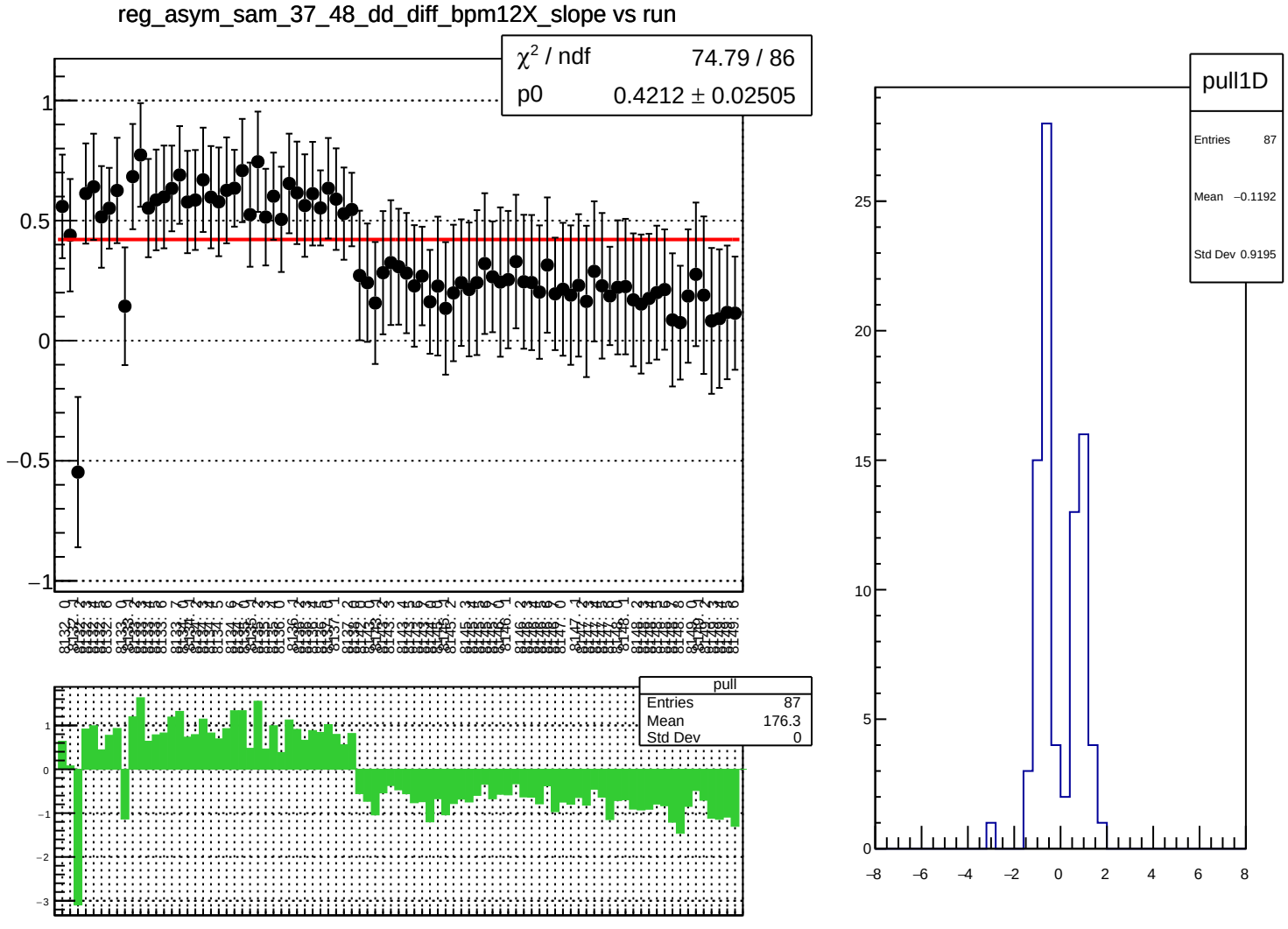

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 23.86 / 86
p0 0.1091± 0.07405
pull
Entries 87
Mean 1779
Std Dev 0
pull1D
Entries 87
Mean −0.006369
Std Dev 0.5237

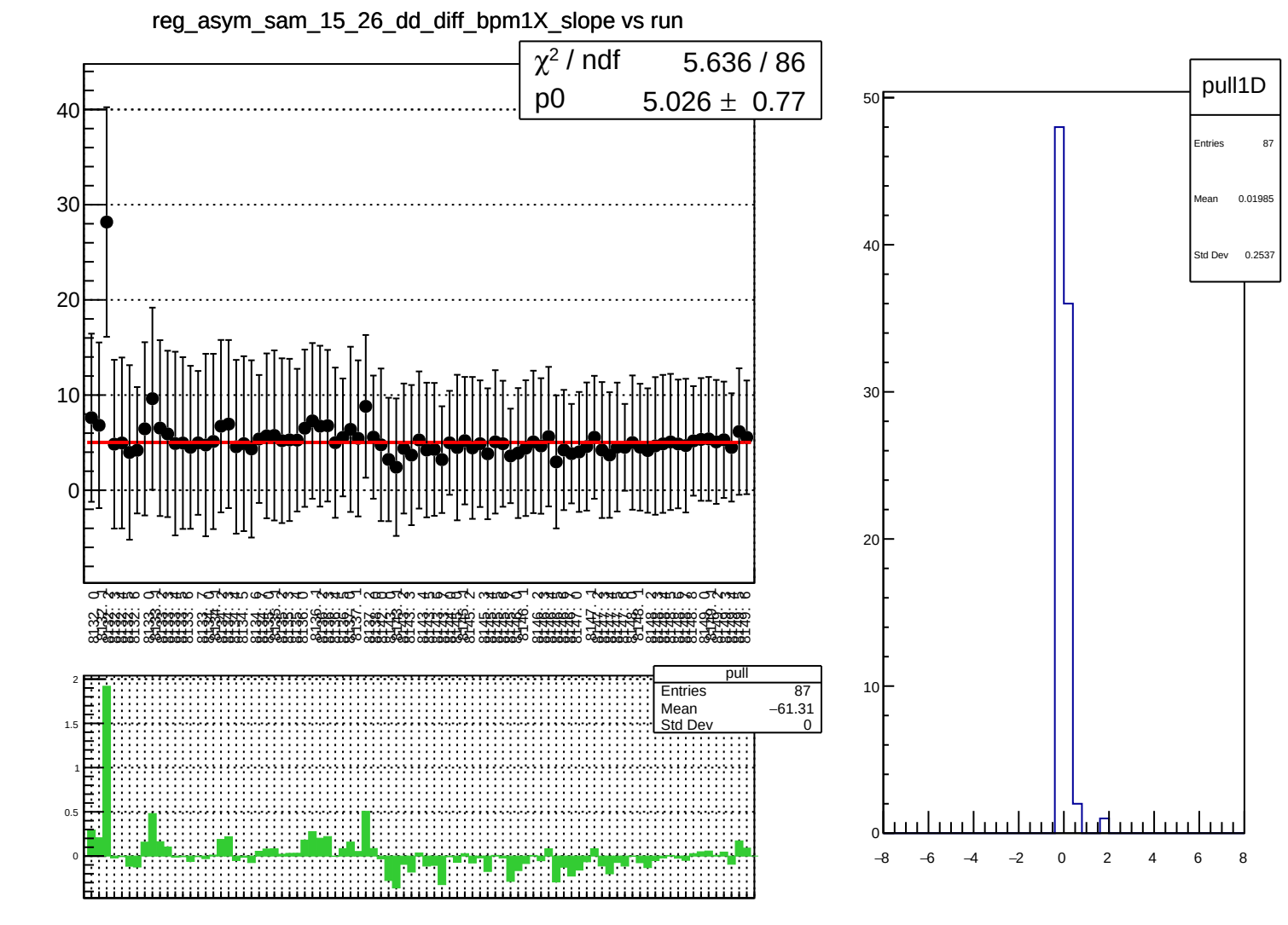

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 48.12 / 86
p0 −0.9556 ± 0.3351
pull
Entries 87
Mean −295
Std Dev 0
pull1D
Entries 87
Mean 0.04083
Std Dev 0.7426

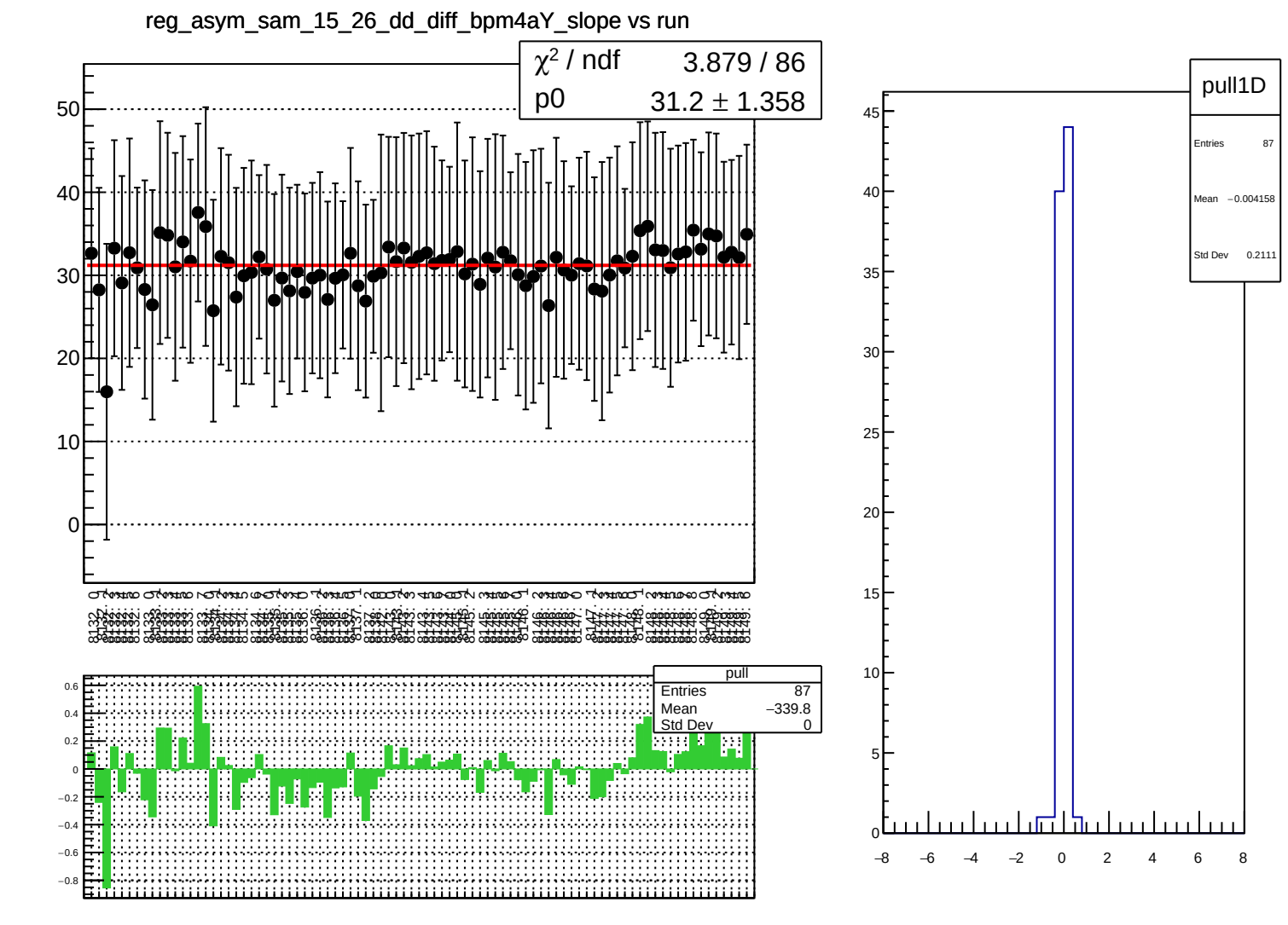

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 39.83 / 86
p0 −24.9 ± 0.5843
pull
Entries 87
Mean 272.3
Std Dev 0
pull1D
Entries 87
Mean −0.03036
Std Dev 0.676

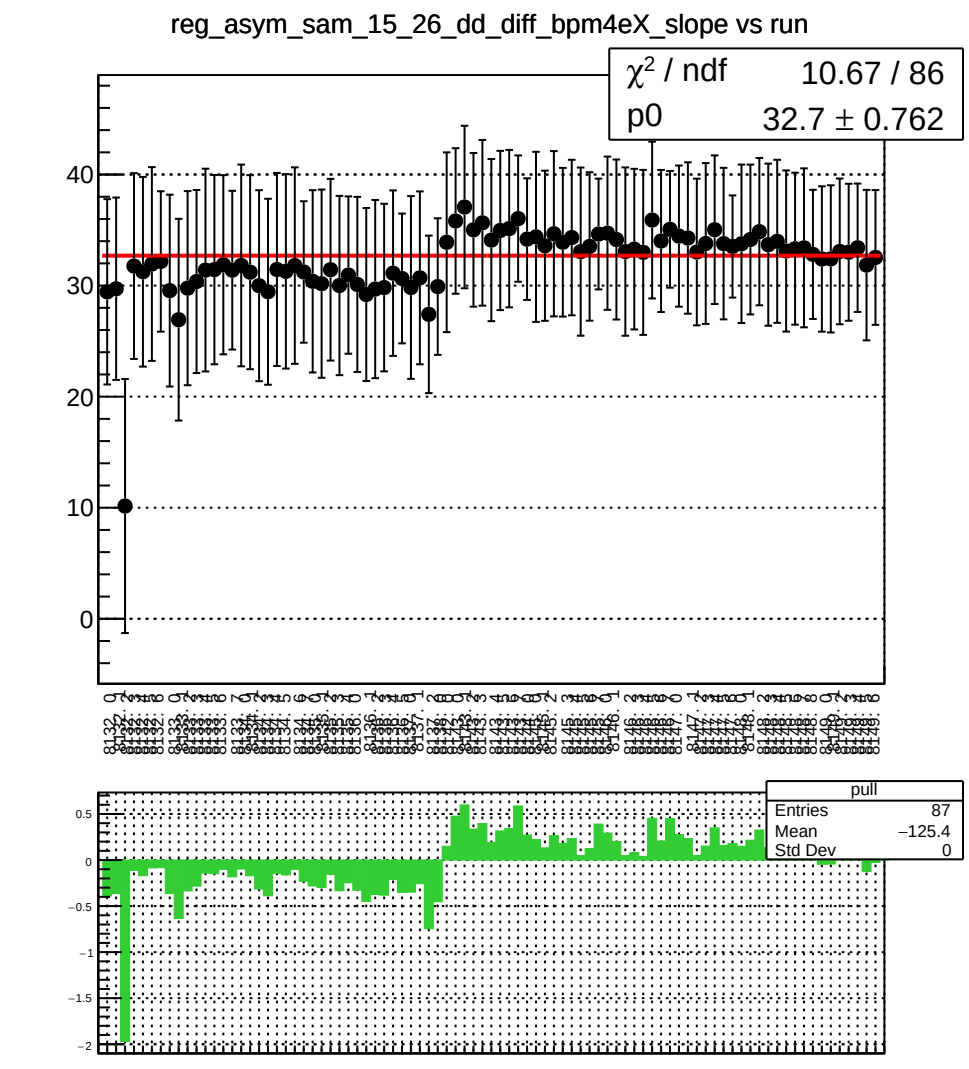

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 27.88 / 86
p0 10.17 ± 0.3309
pull
Entries 87
Mean −1526
Std Dev 0
pull1D
Entries 87
Mean −0.006821
Std Dev 0.5661

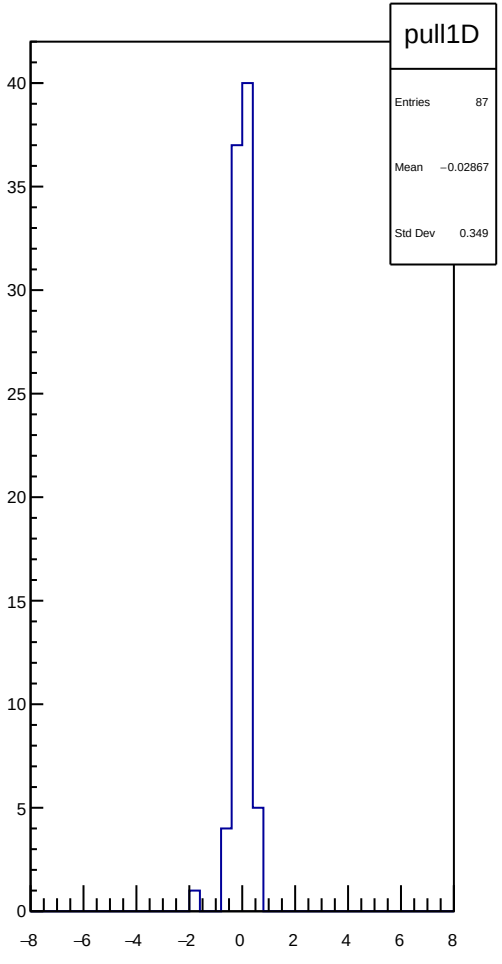

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 37.44 / 86
p0 −30.89 ± 0.6257
pull
Entries 87
Mean 246.9
Std Dev 0
pull1D
Entries 87
Mean 0.01616
Std Dev 0.6558

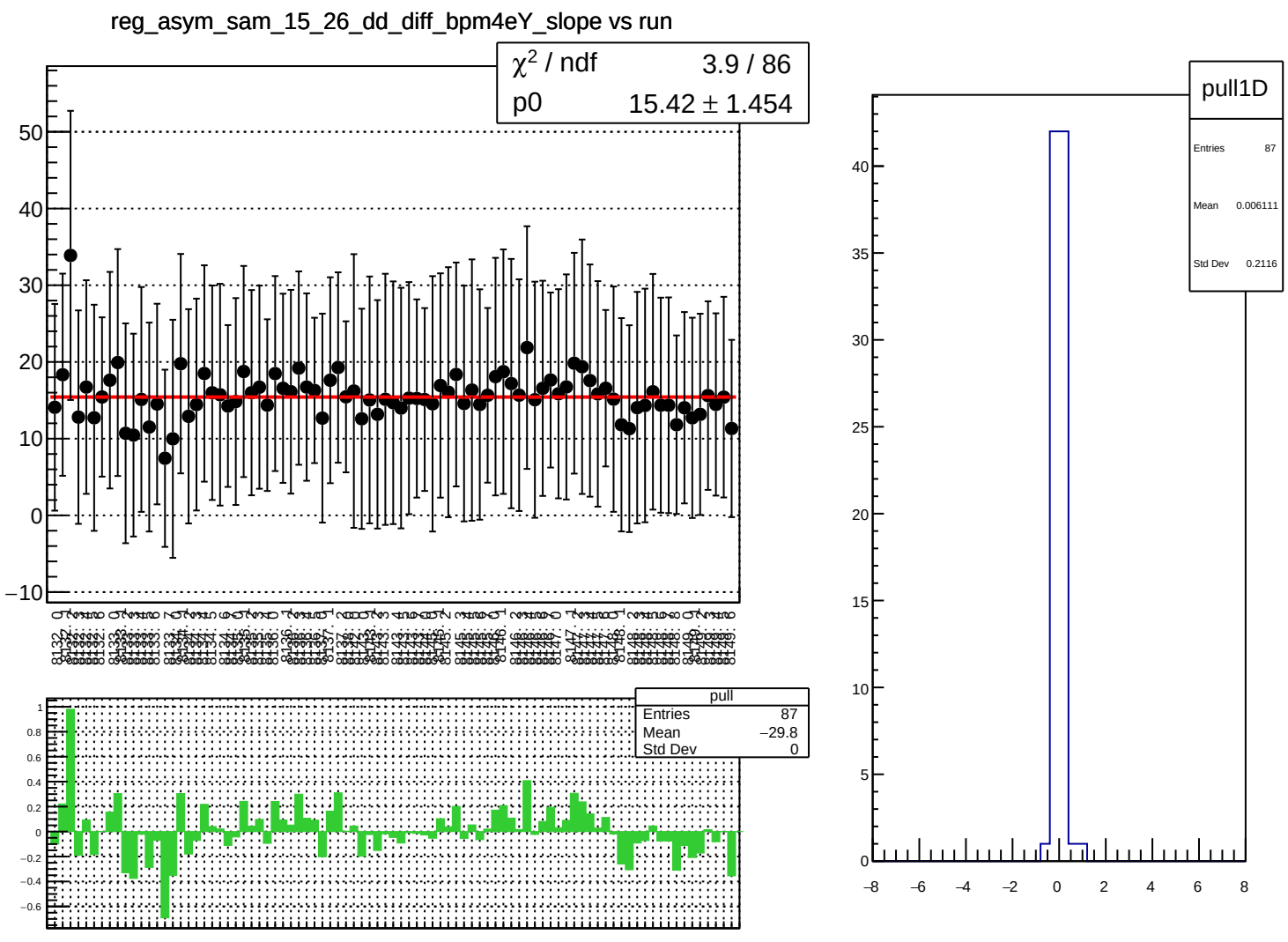

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 74.79 / 86
p0 0.4212 ± 0.02505
pull
Entries 87
Mean 176.3
Std Dev 0
pull1D
Entries 87
Mean −0.1192
Std Dev 0.9195

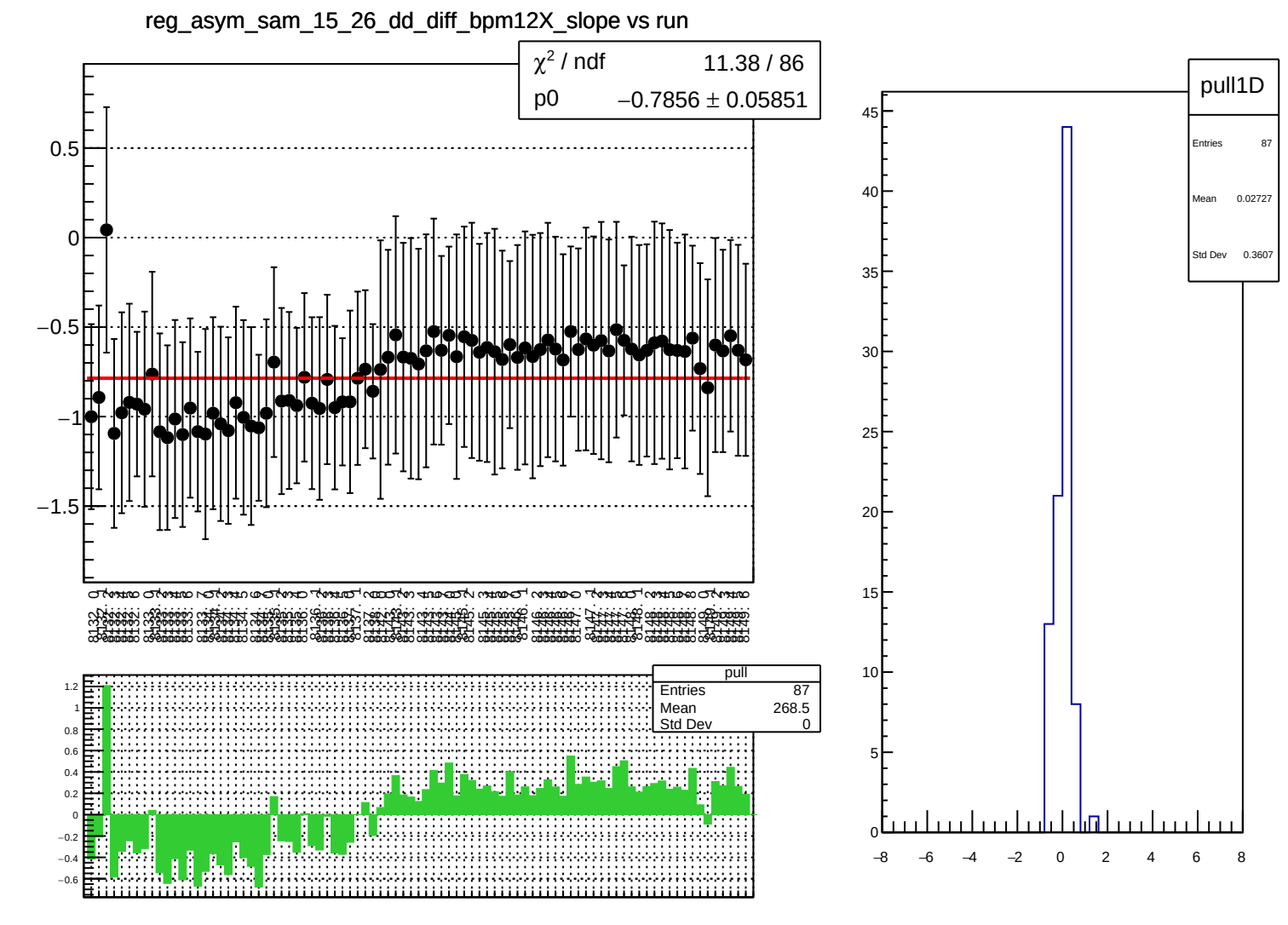

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 5.636 / 86
p0 5.026 ± 0.77
pull
Entries 87
Mean −61.31
Std Dev 0
pull1D
Entries 87
Mean 0.01985
Std Dev 0.2537

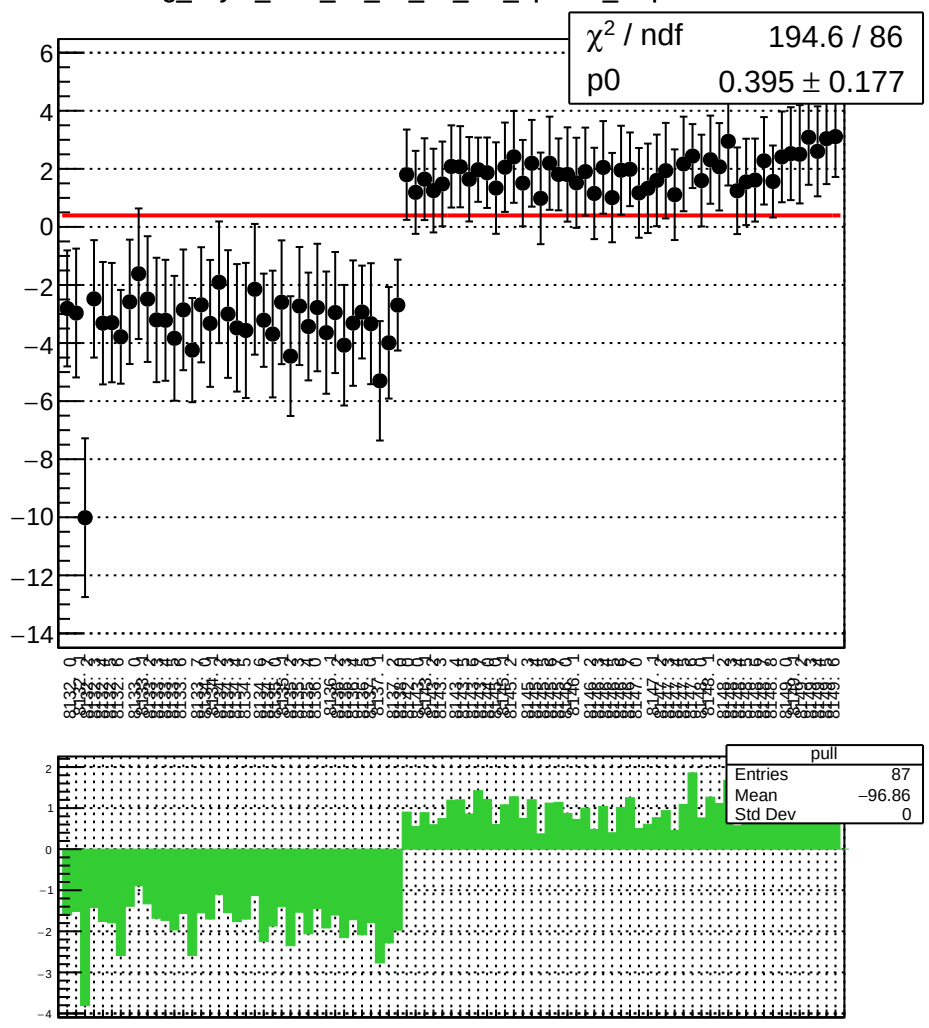

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.879 / 86
p0 31.2 ± 1.358
pull
Entries 87
Mean −339.8
Std Dev 0
pull1D
Entries 87
Mean −0.004158
Std Dev 0.2111

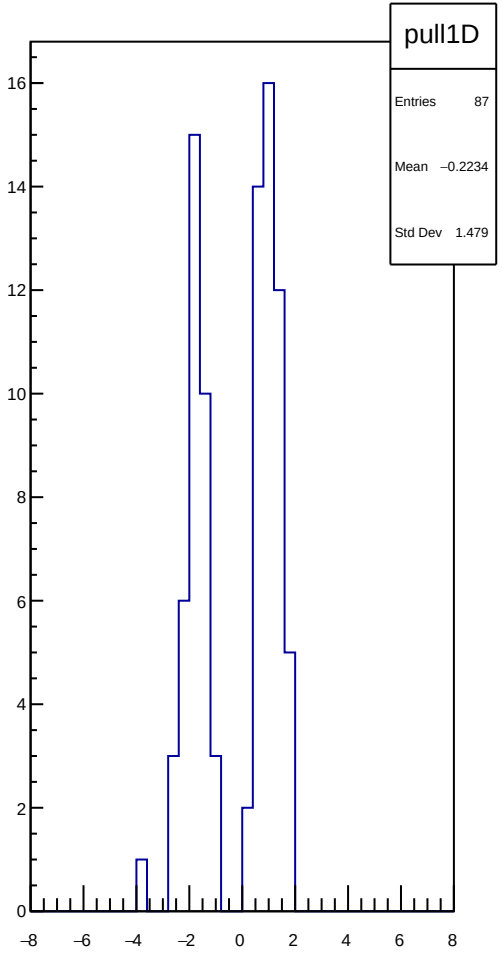

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 10.67 / 86
p0 32.7 ± 0.762
pull
Entries 87
Mean −125.4
Std Dev 0

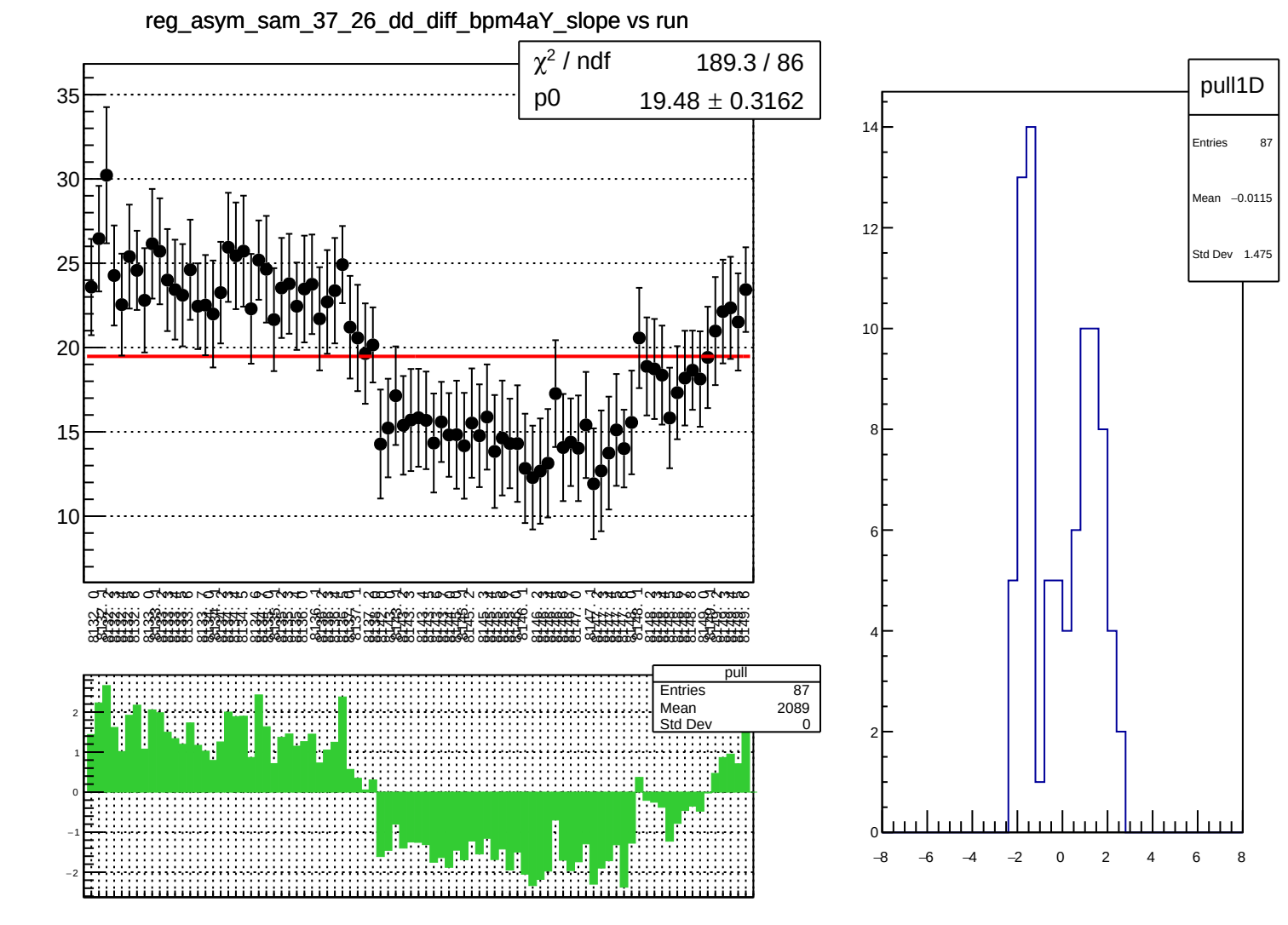

pull1D
Entries 87
Mean −0.02867
Std Dev 0.349

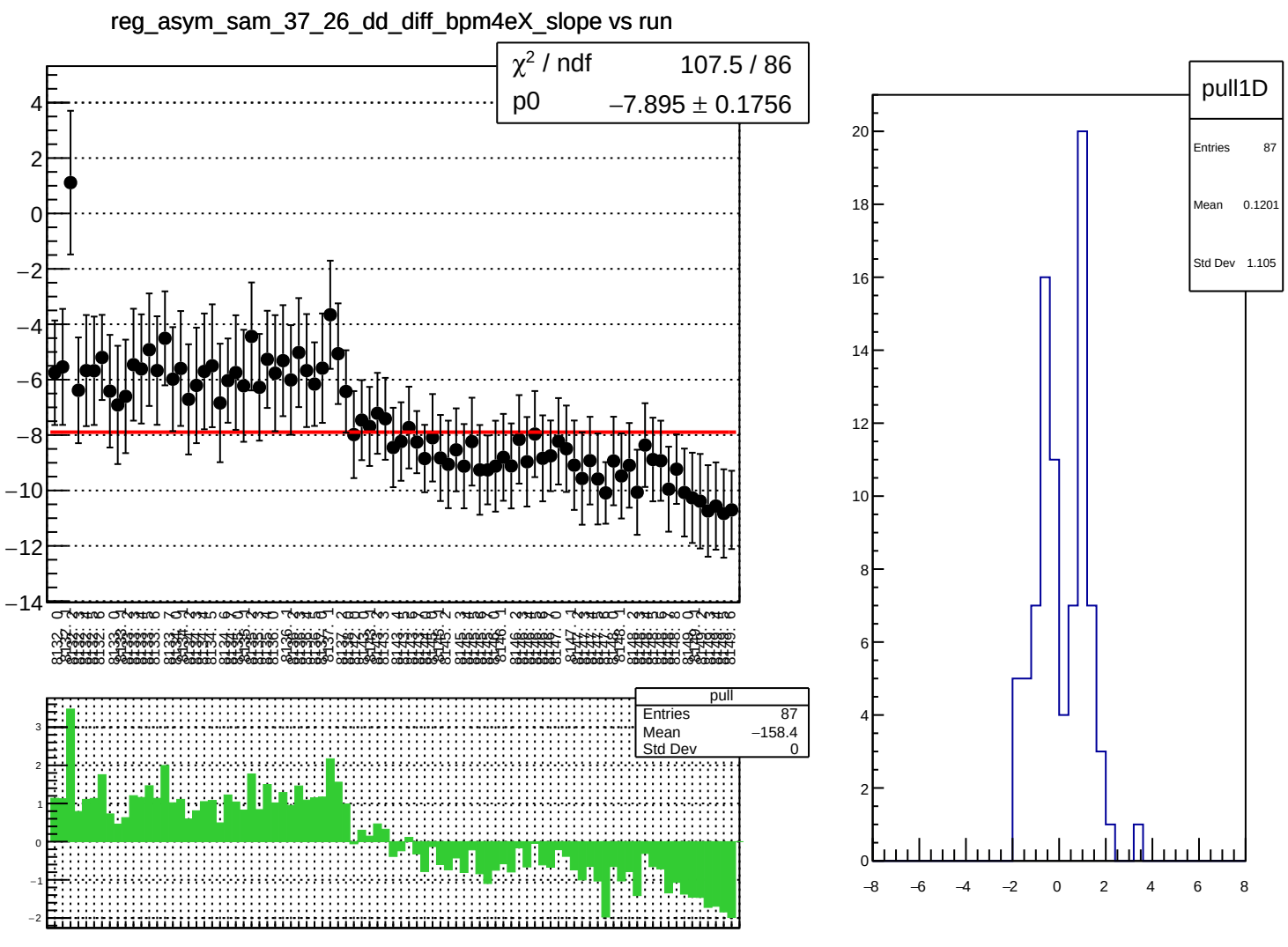

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.9 / 86
p0 15.42 ± 1.454
pull
Entries 87
Mean −29.8
Std Dev 0
pull1D
Entries 87
Mean 0.006111
Std Dev 0.2116

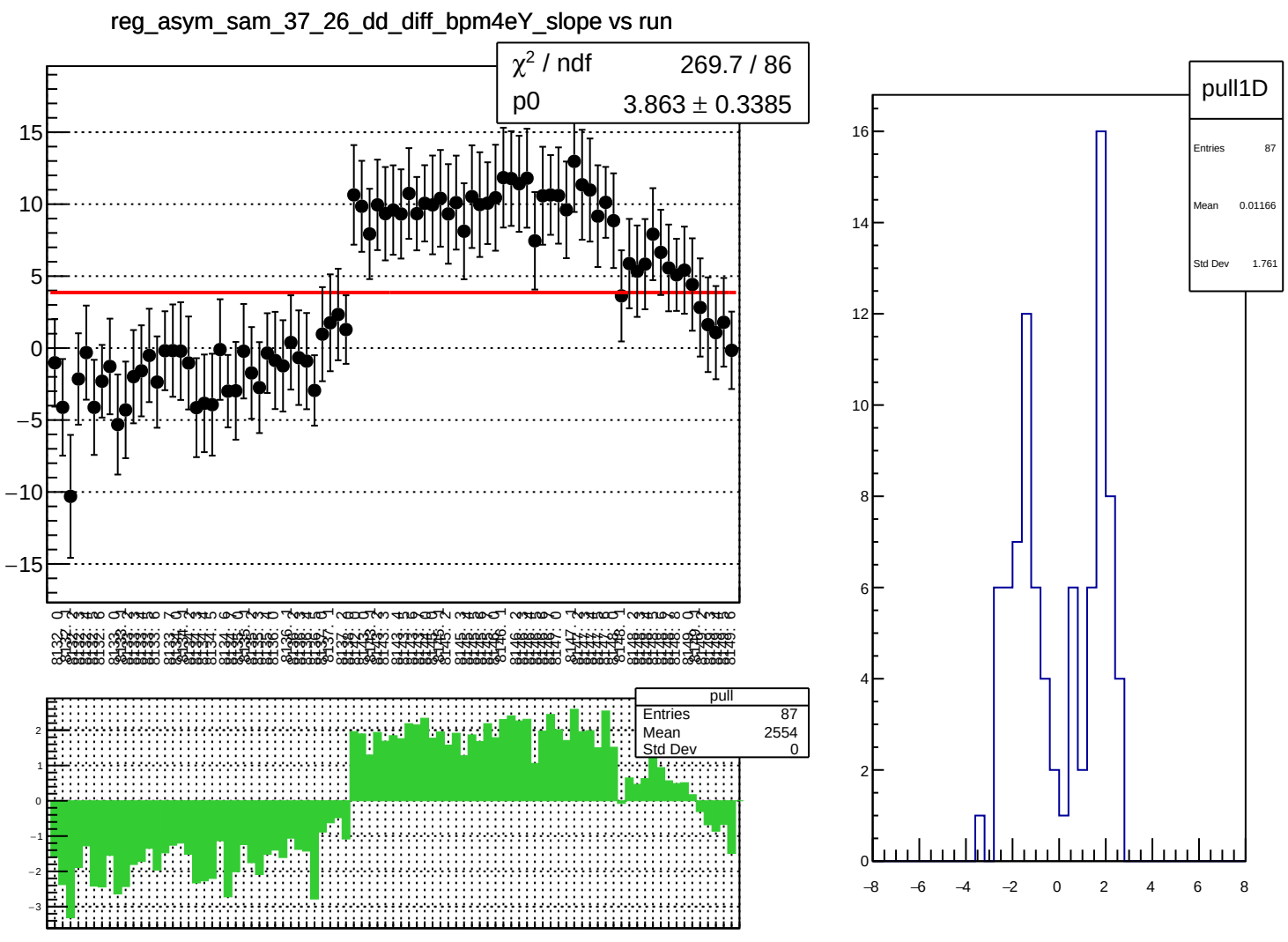

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 11.38 / 86
p0 −0.7856 ± 0.05851
pull
Entries 87
Mean 268.5
Std Dev 0
pull1D
Entries 87
Mean 0.02727
Std Dev 0.3607

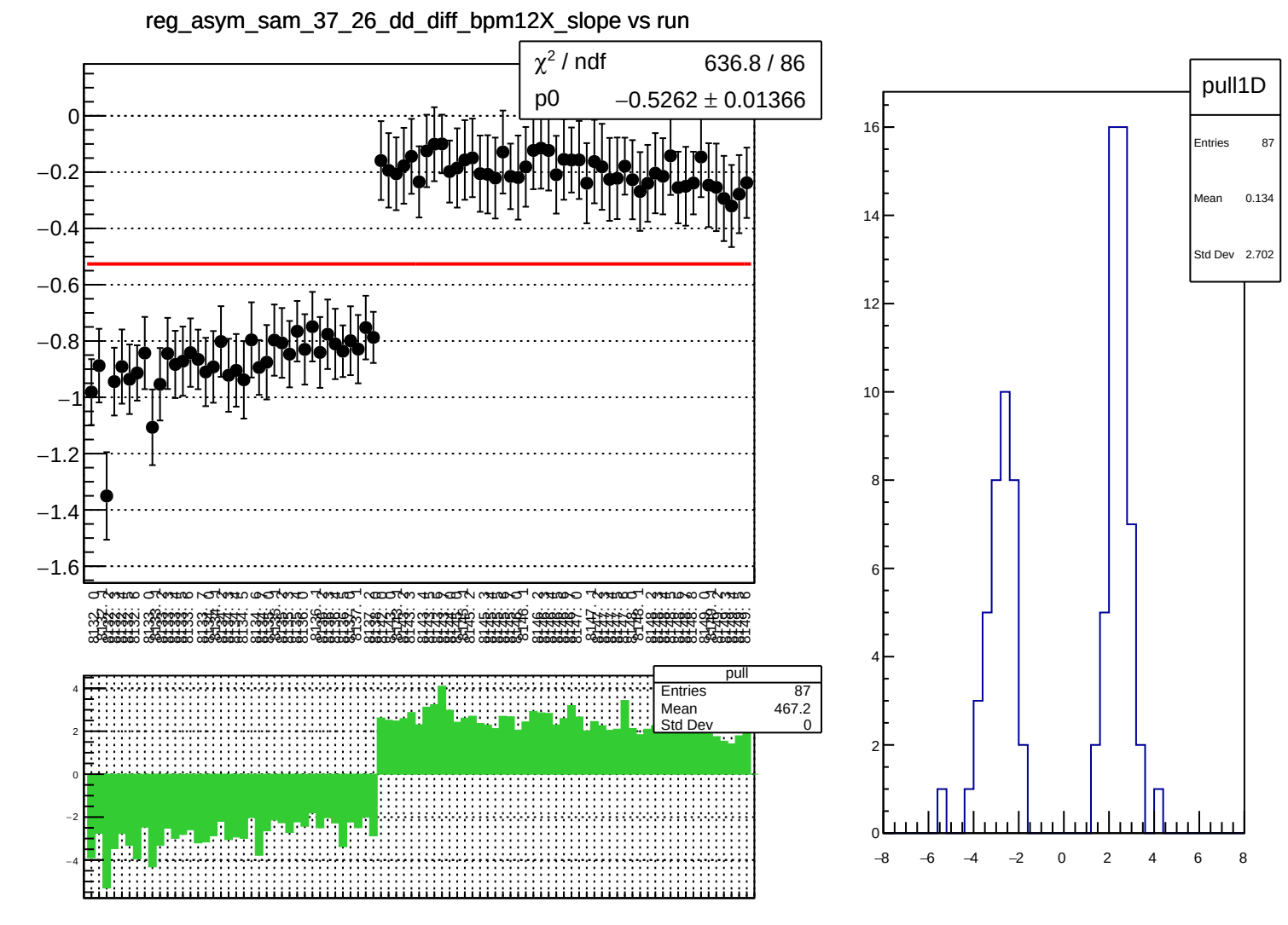

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 194.6 / 86
p0 0.395 ± 0.177
pull
Entries 87
Mean −96.86
Std Dev 0

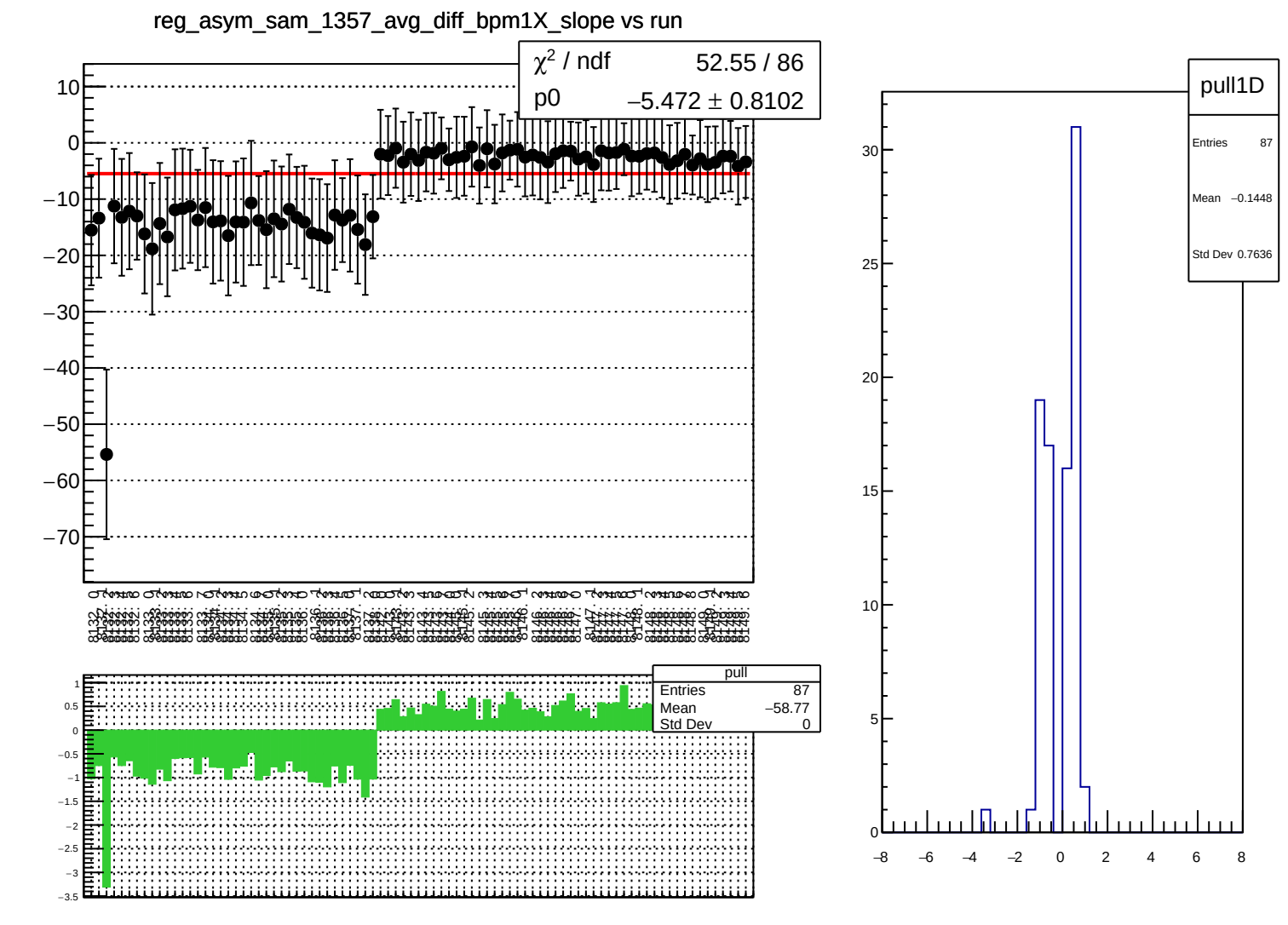

pull1D
Entries 87
Mean −0.2234
Std Dev 1.479

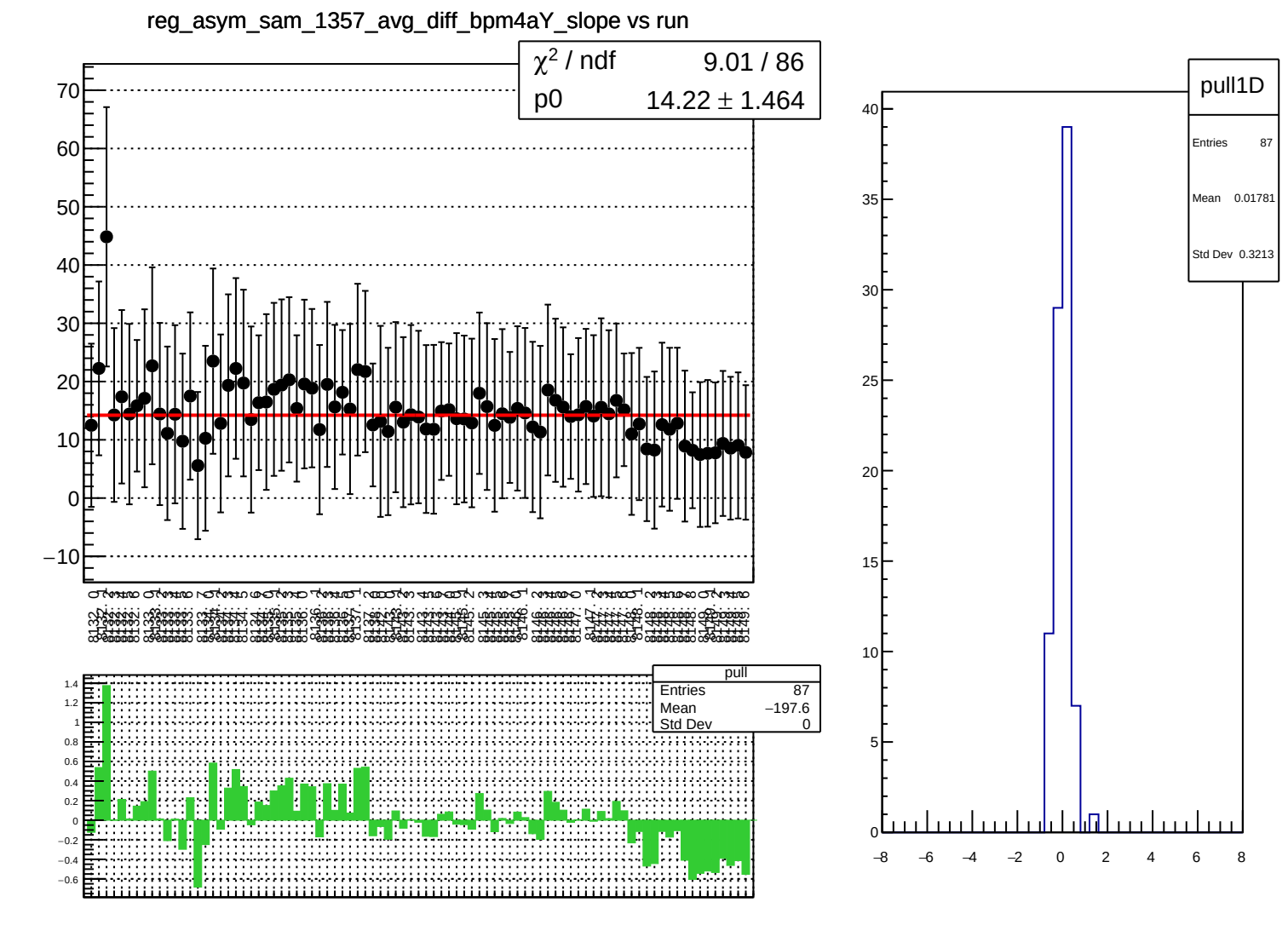

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 189.3 / 86
p0 19.48 ± 0.3162
pull
Entries 87
Mean 2089
Std Dev 0
pull1D
Entries 87
Mean −0.0115
Std Dev 1.475

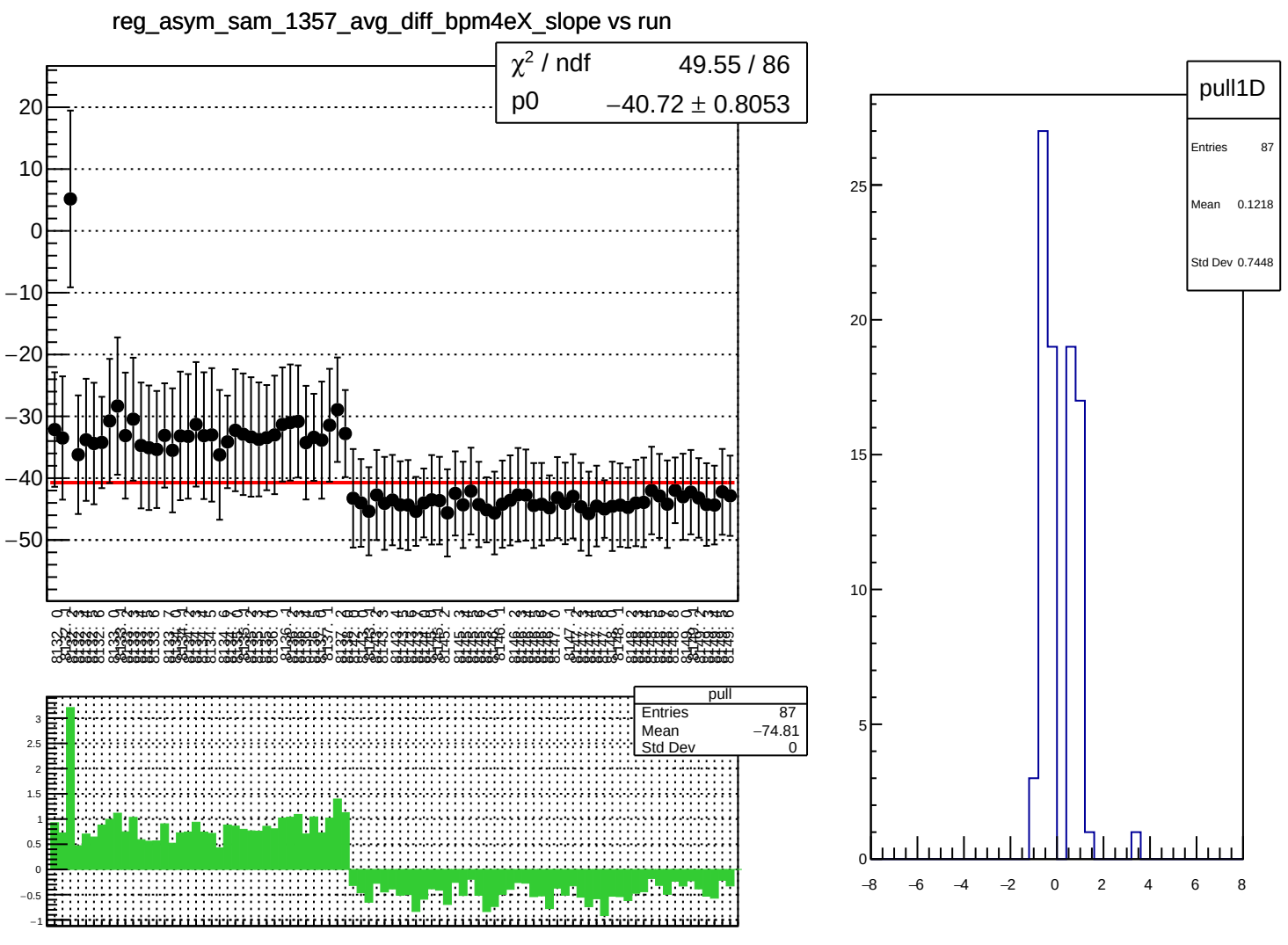

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 107.5 / 86
p0 −7.895 ± 0.1756
pull
Entries 87
Mean −158.4
Std Dev 0
pull1D
Entries 87
Mean 0.1201
Std Dev 1.105

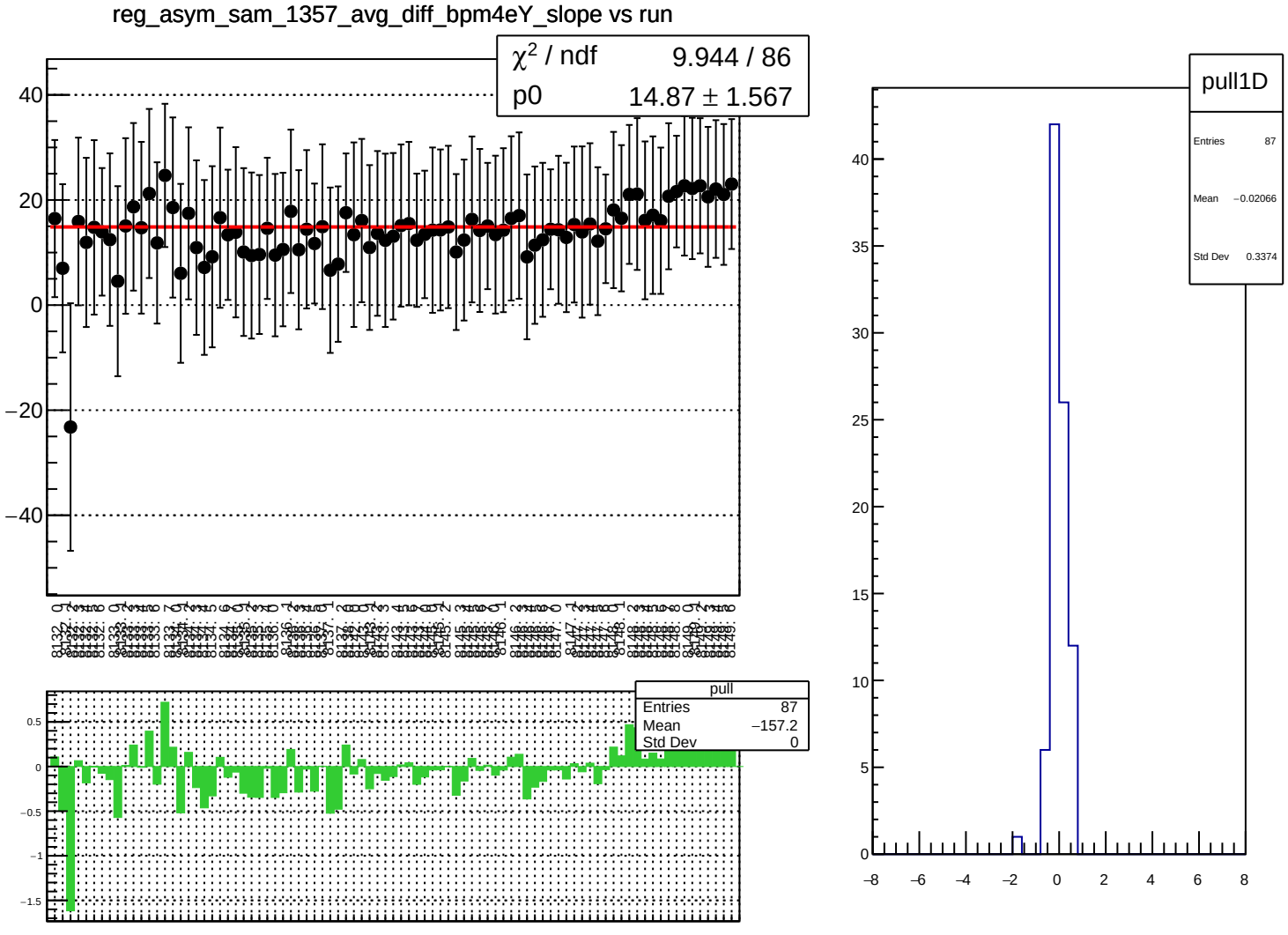

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 269.7 / 86
p0 3.863 ± 0.3385
pull
Entries 87
Mean 2554
Std Dev 0
pull1D
Entries 87
Mean 0.01166
Std Dev 1.761

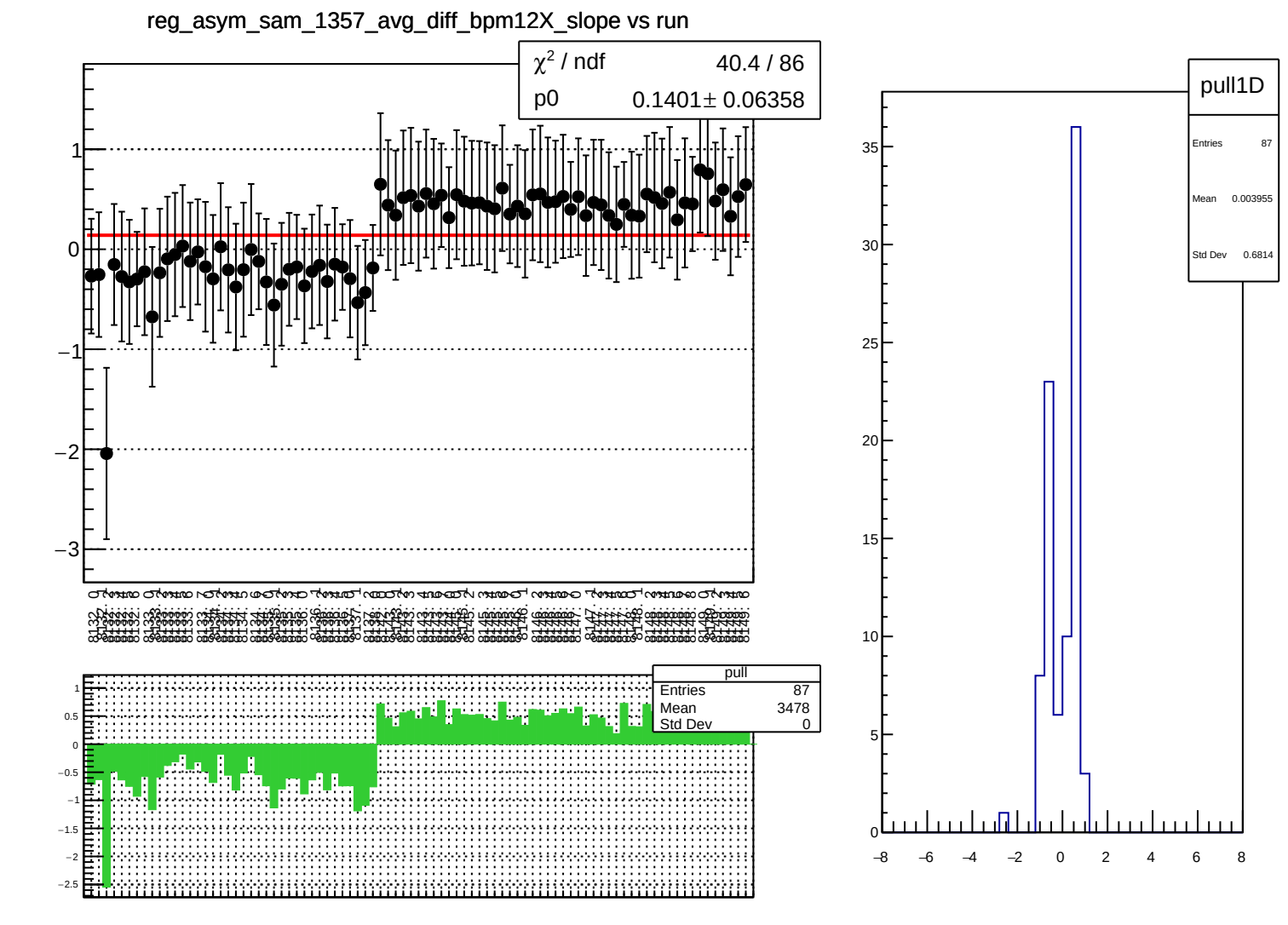

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 636.8 / 86
p0 −0.5262 ± 0.01366
pull
Entries 87
Mean 467.2
Std Dev 0
pull1D
Entries 87
Mean 0.134
Std Dev 2.702

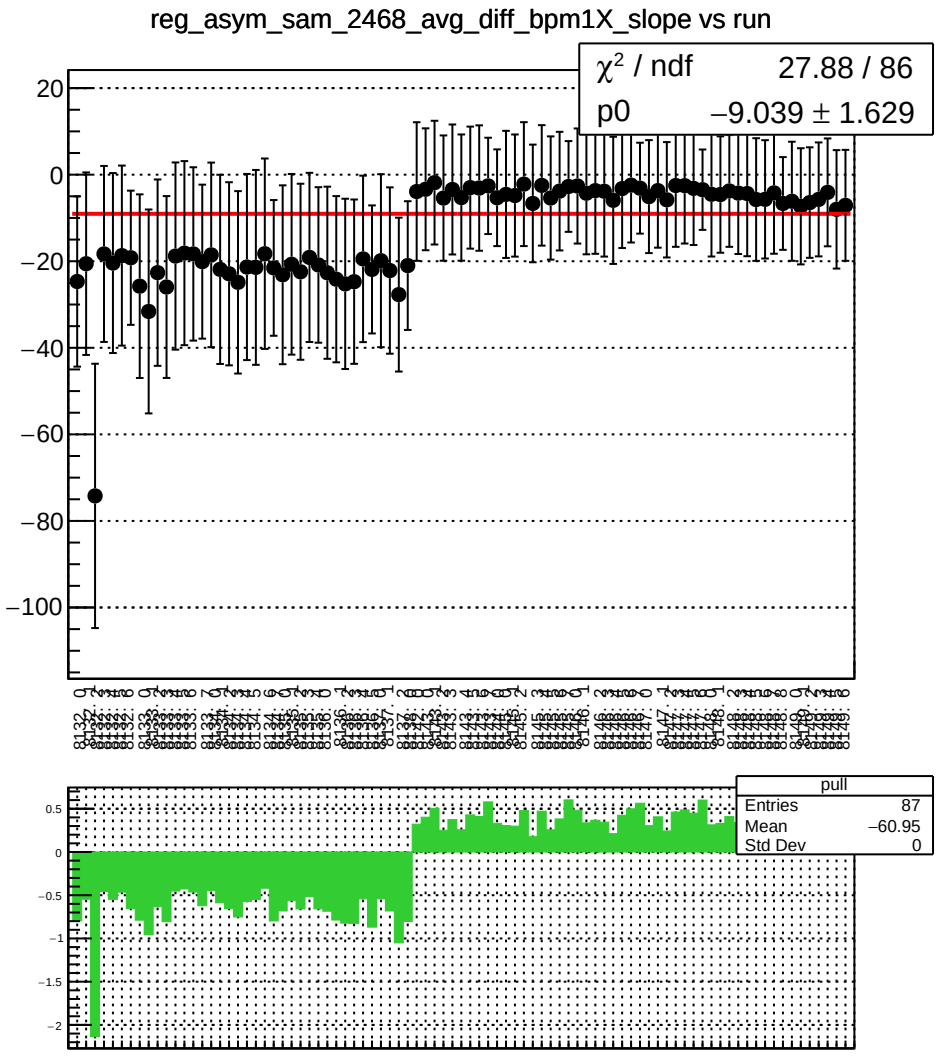

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 52.55 / 86
p0 −5.472 ± 0.8102
pull
Entries 87
Mean −58.77
Std Dev 0
pull1D
Entries 87
Mean −0.1448
Std Dev 0.7636

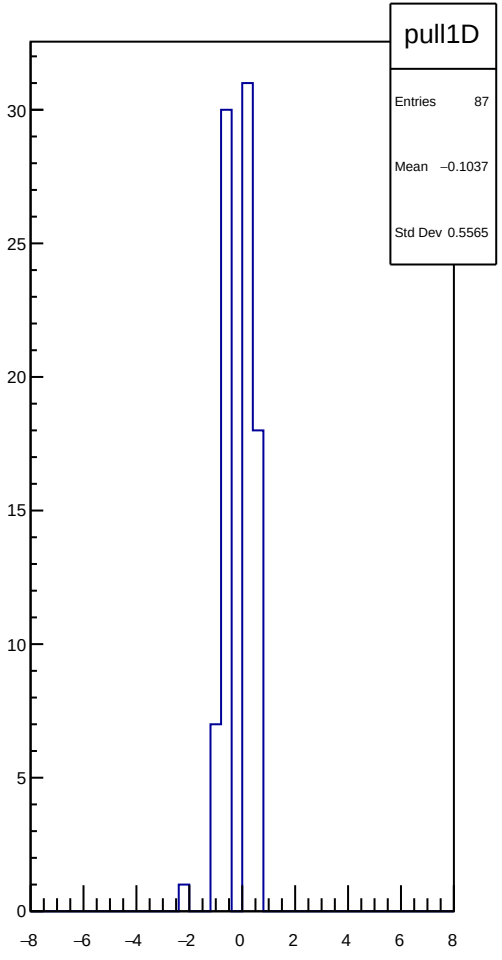

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.01 / 86
p0 14.22 ± 1.464
pull
Entries 87
Mean −197.6
Std Dev 0
pull1D
Entries 87
Mean 0.01781
Std Dev 0.3213

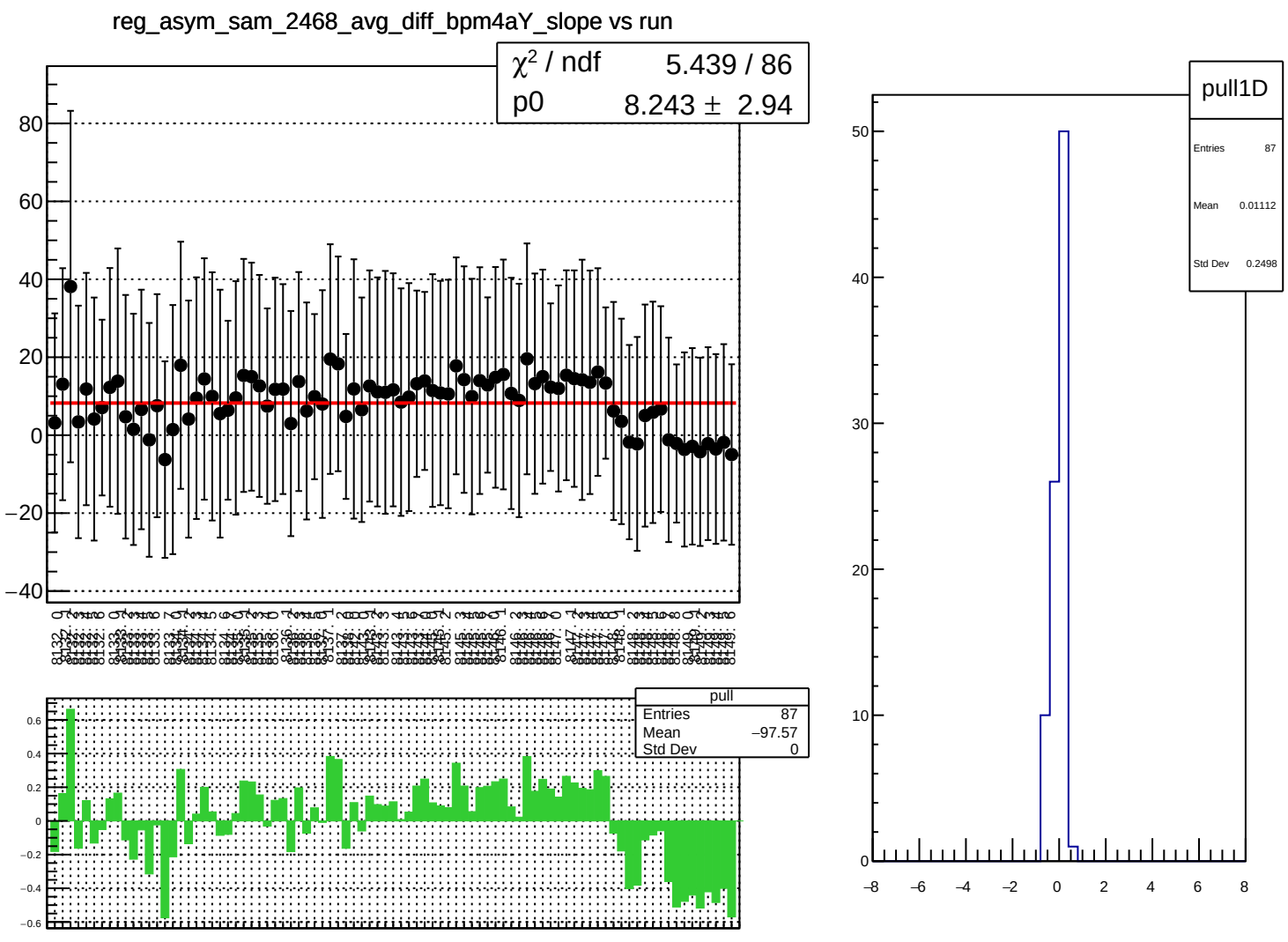

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 49.55 / 86
p0 −40.72 ± 0.8053
pull
Entries 87
Mean −74.81
Std Dev 0
pull1D
Entries 87
Mean 0.1218
Std Dev 0.7448

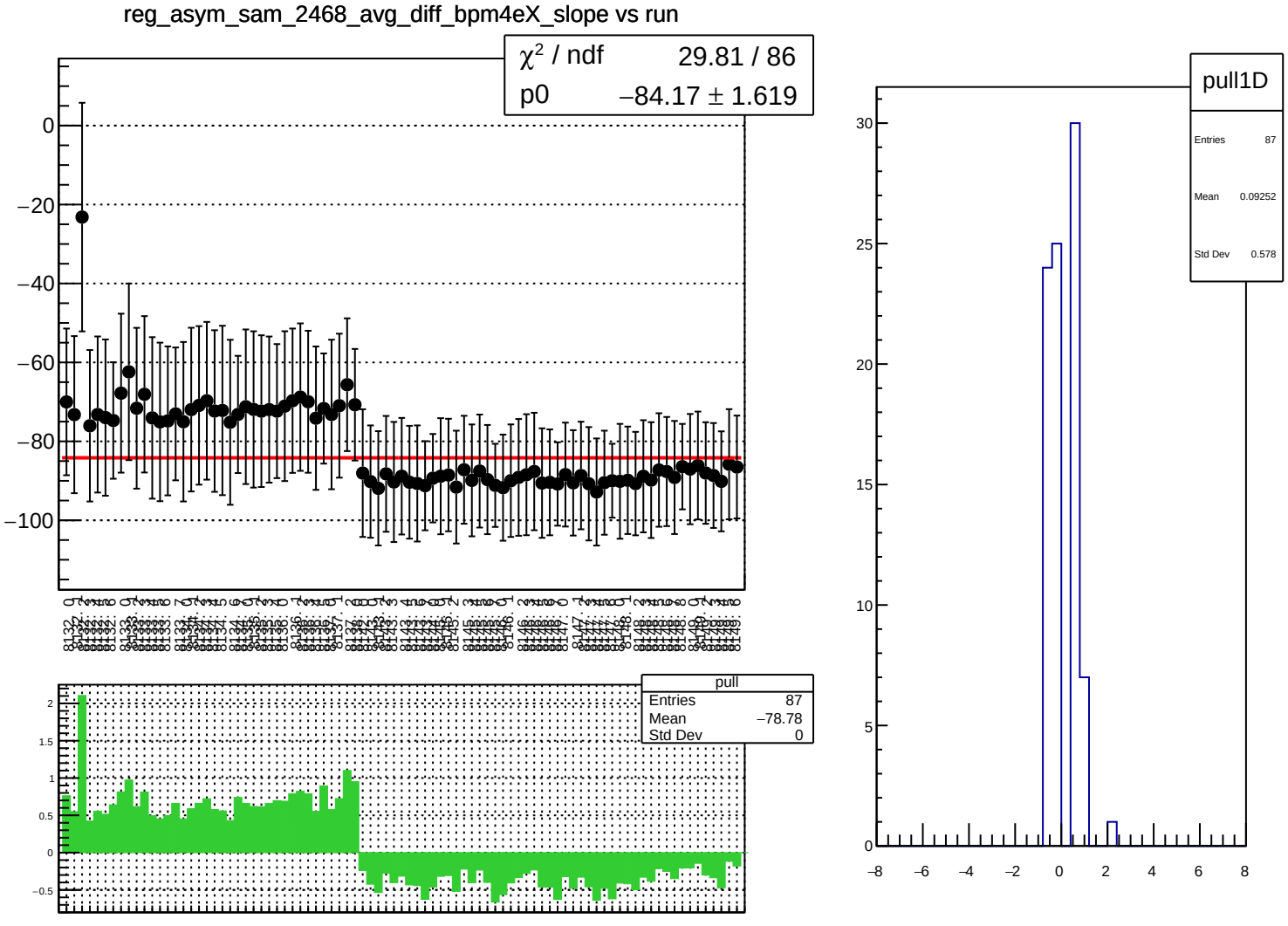

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.944 / 86
p0 14.87 ± 1.567
pull
Entries 87
Mean −157.2
Std Dev 0
pull1D
Entries 87
Mean −0.02066
Std Dev 0.3374

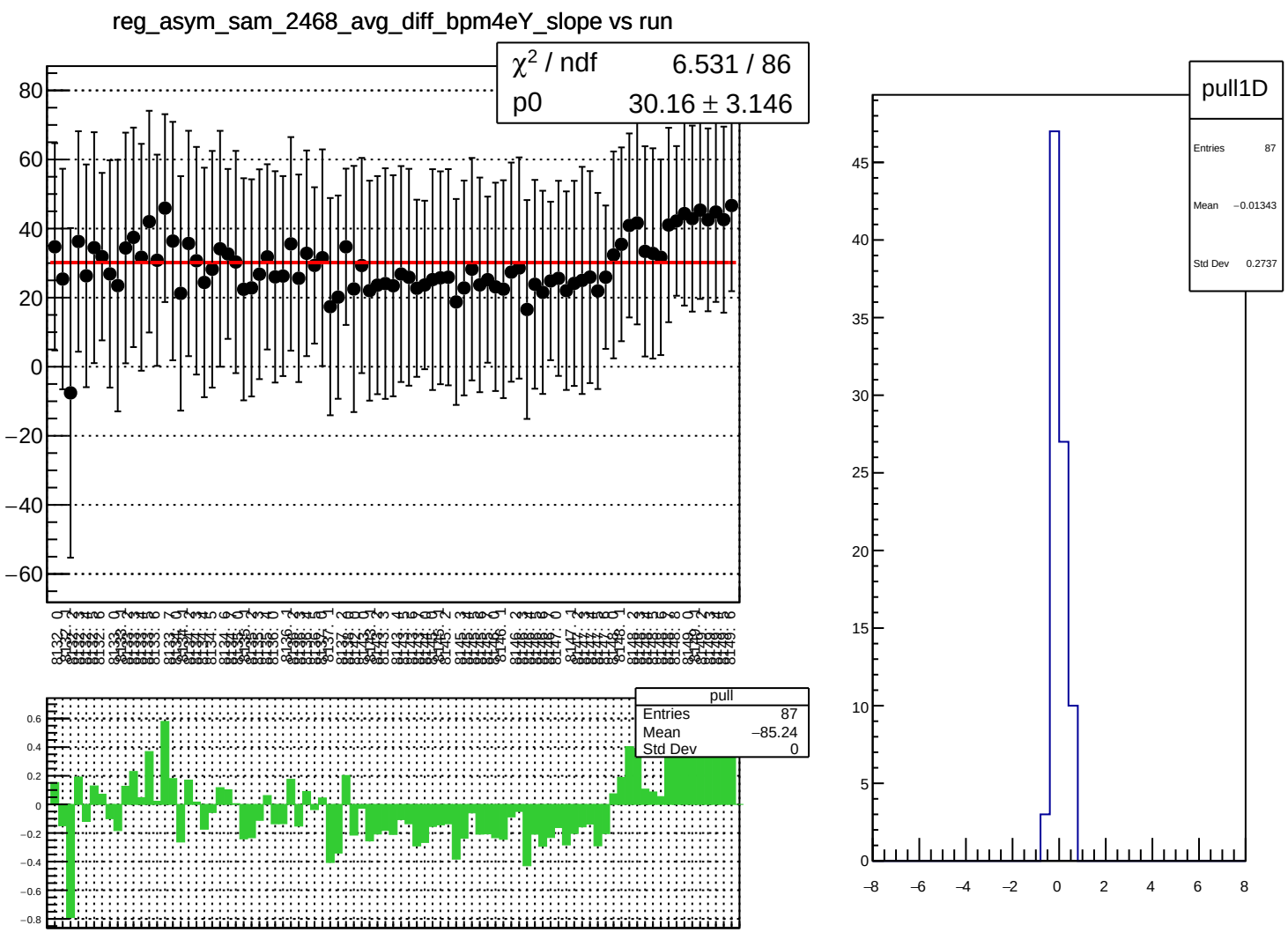

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 40.4 / 86
p0 0.1401± 0.06358
pull
Entries 87
Mean 3478
Std Dev 0
pull1D
Entries 87
Mean 0.003955
Std Dev 0.6814

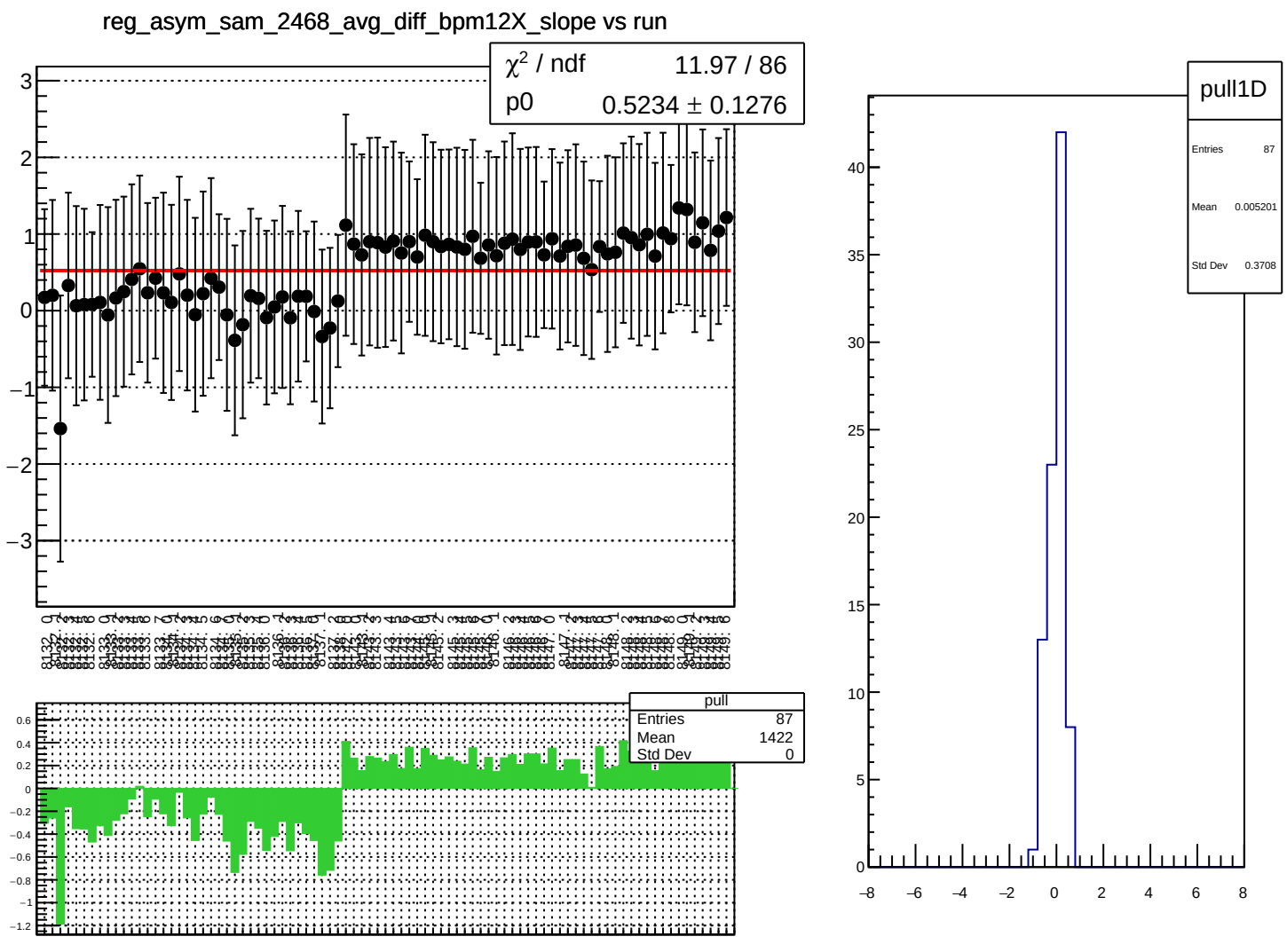

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 27.88 / 86
p0 −9.039 ± 1.629
pull
Entries 87
Mean −60.95
Std Dev 0

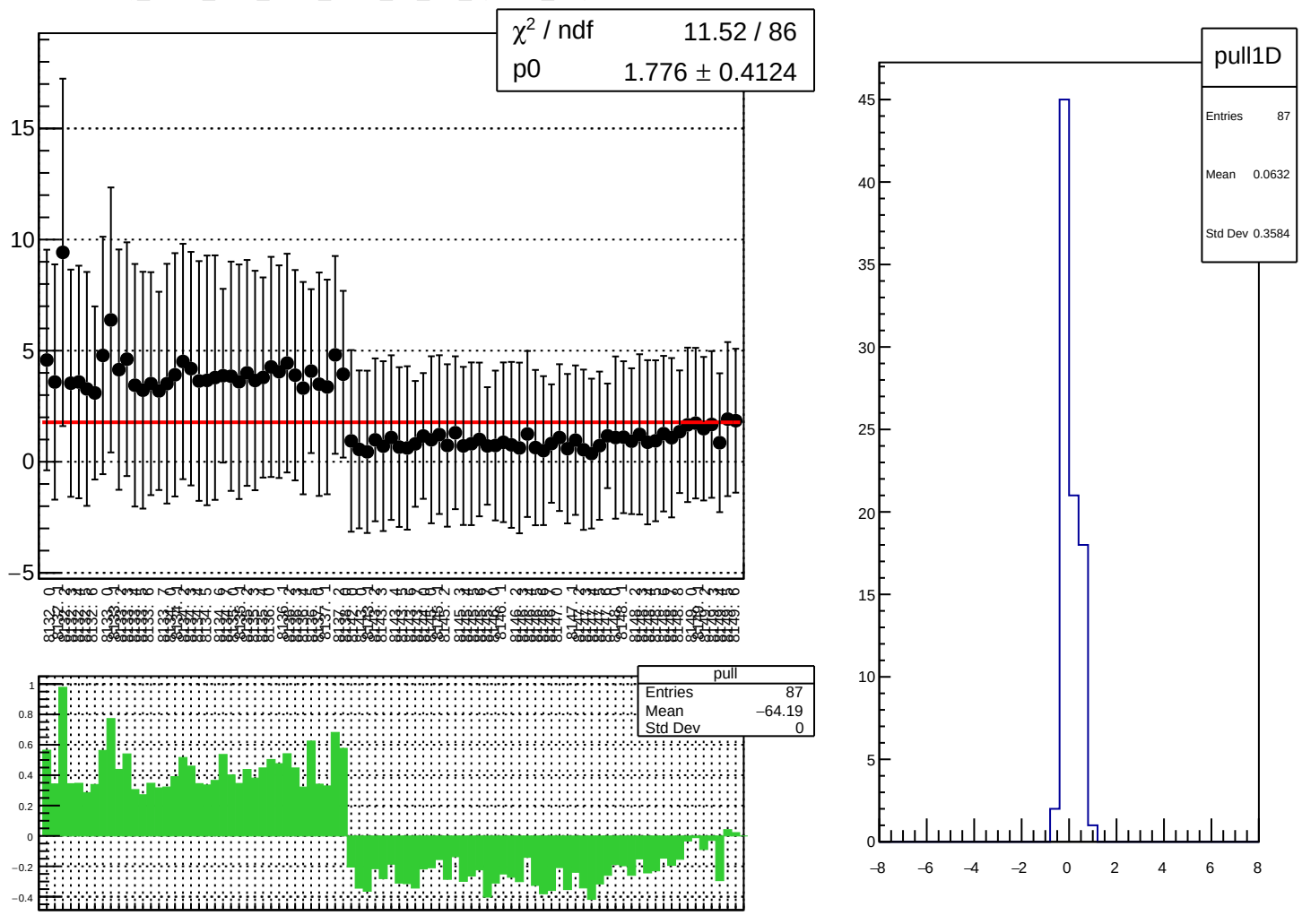

pull1D
Entries 87
Mean −0.1037
Std Dev 0.5565

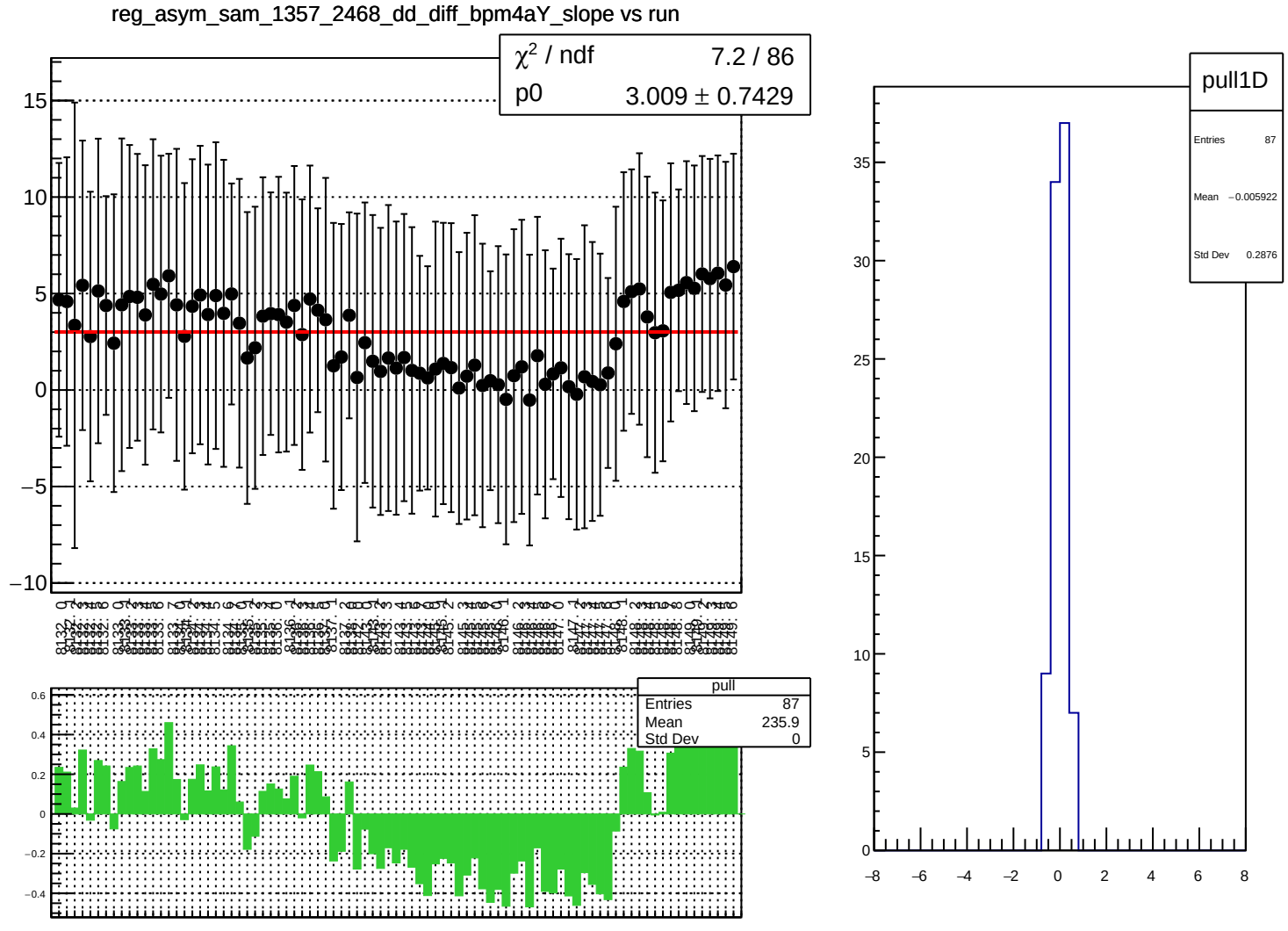

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.439 / 86
p0 8.243 ± 2.94
pull
Entries 87
Mean −97.57
Std Dev 0
pull1D
Entries 87
Mean 0.01112
Std Dev 0.2498

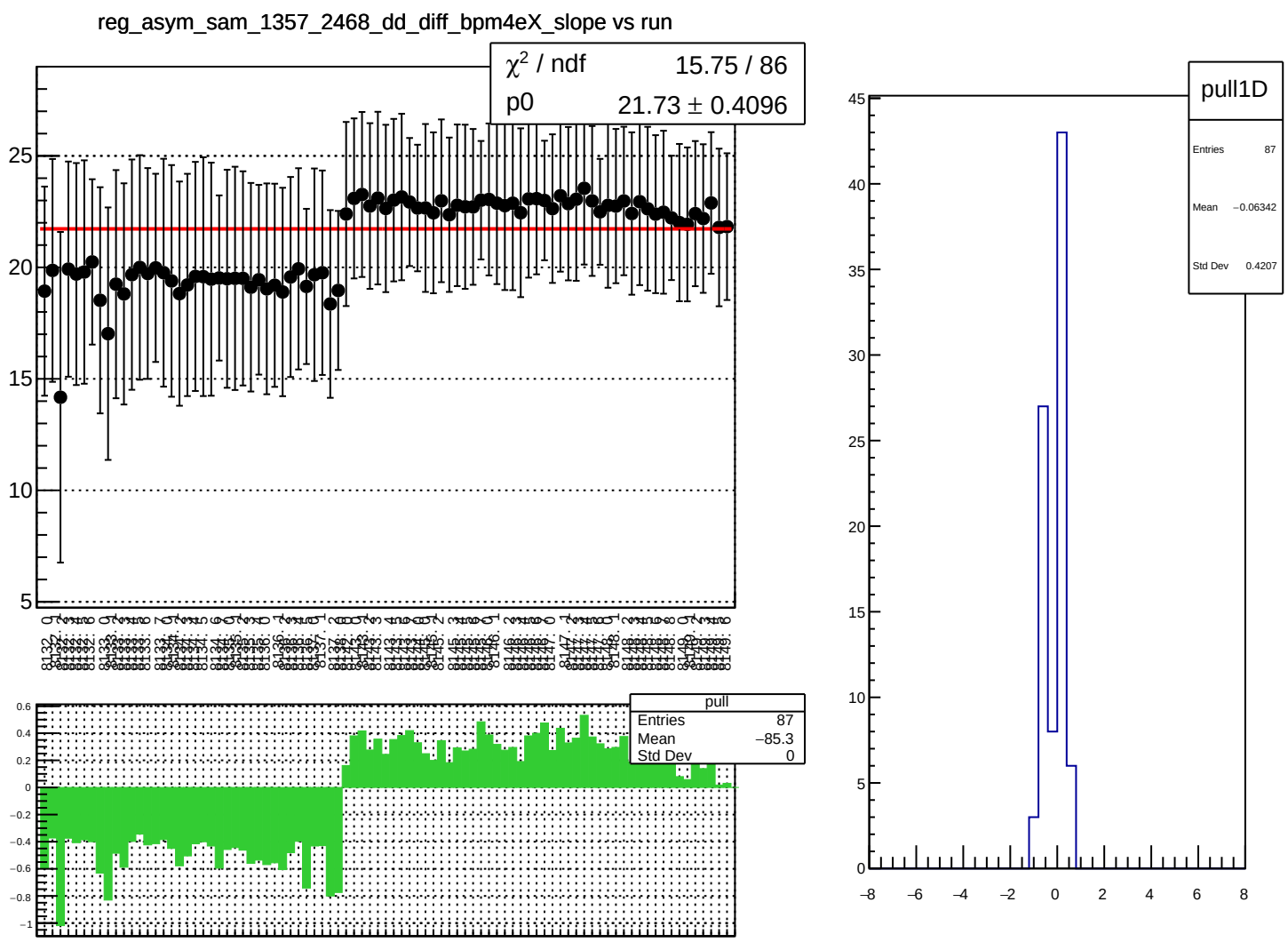

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 29.81 / 86
p0 −84.17 ± 1.619
pull
Entries 87
Mean −78.78
Std Dev 0
pull1D
Entries 87
Mean 0.09252
Std Dev 0.578

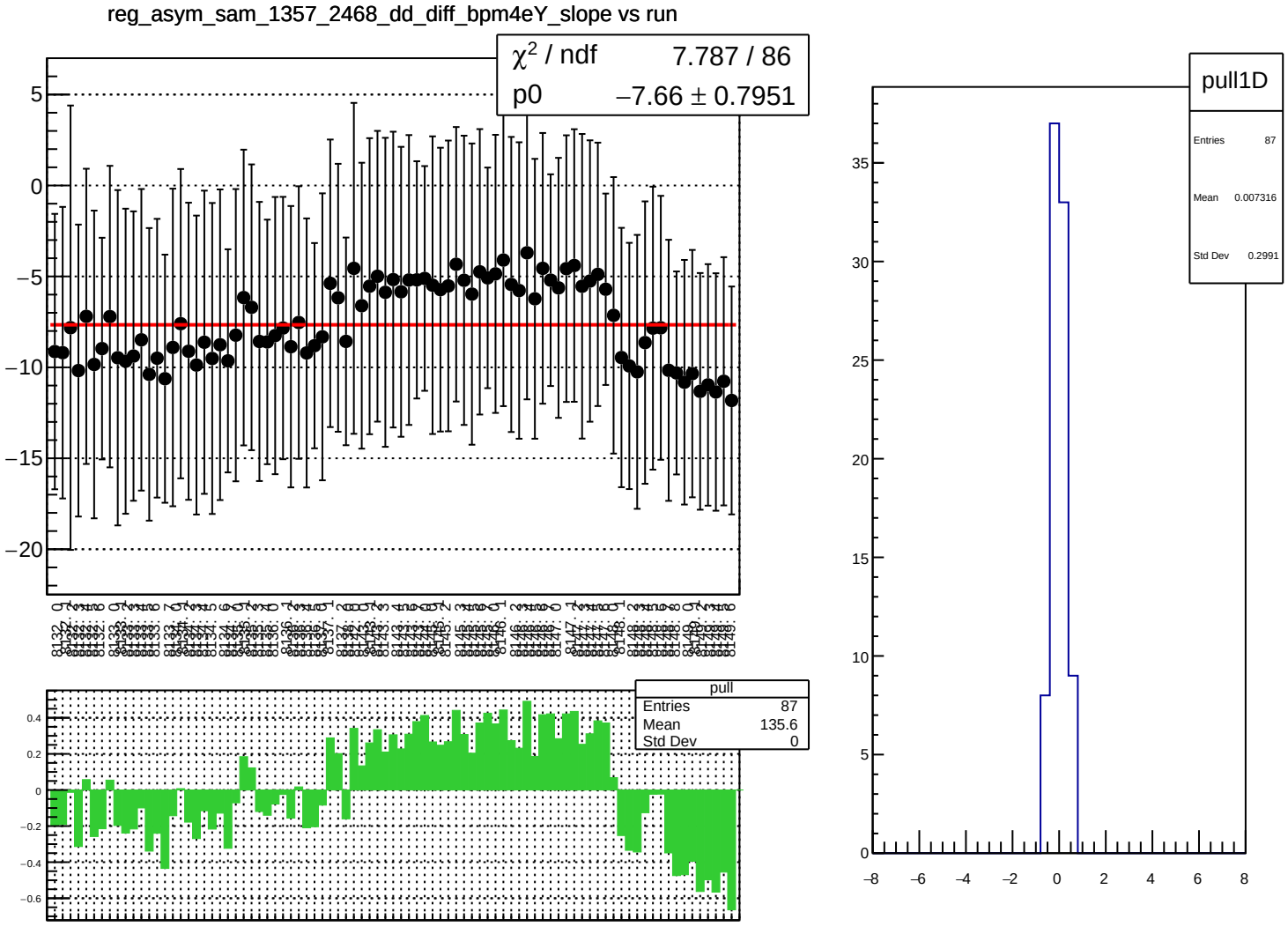

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.531 / 86
p0 30.16 ± 3.146
pull
Entries 87
Mean −85.24
Std Dev 0
pull1D
Entries 87
Mean −0.01343
Std Dev 0.2737

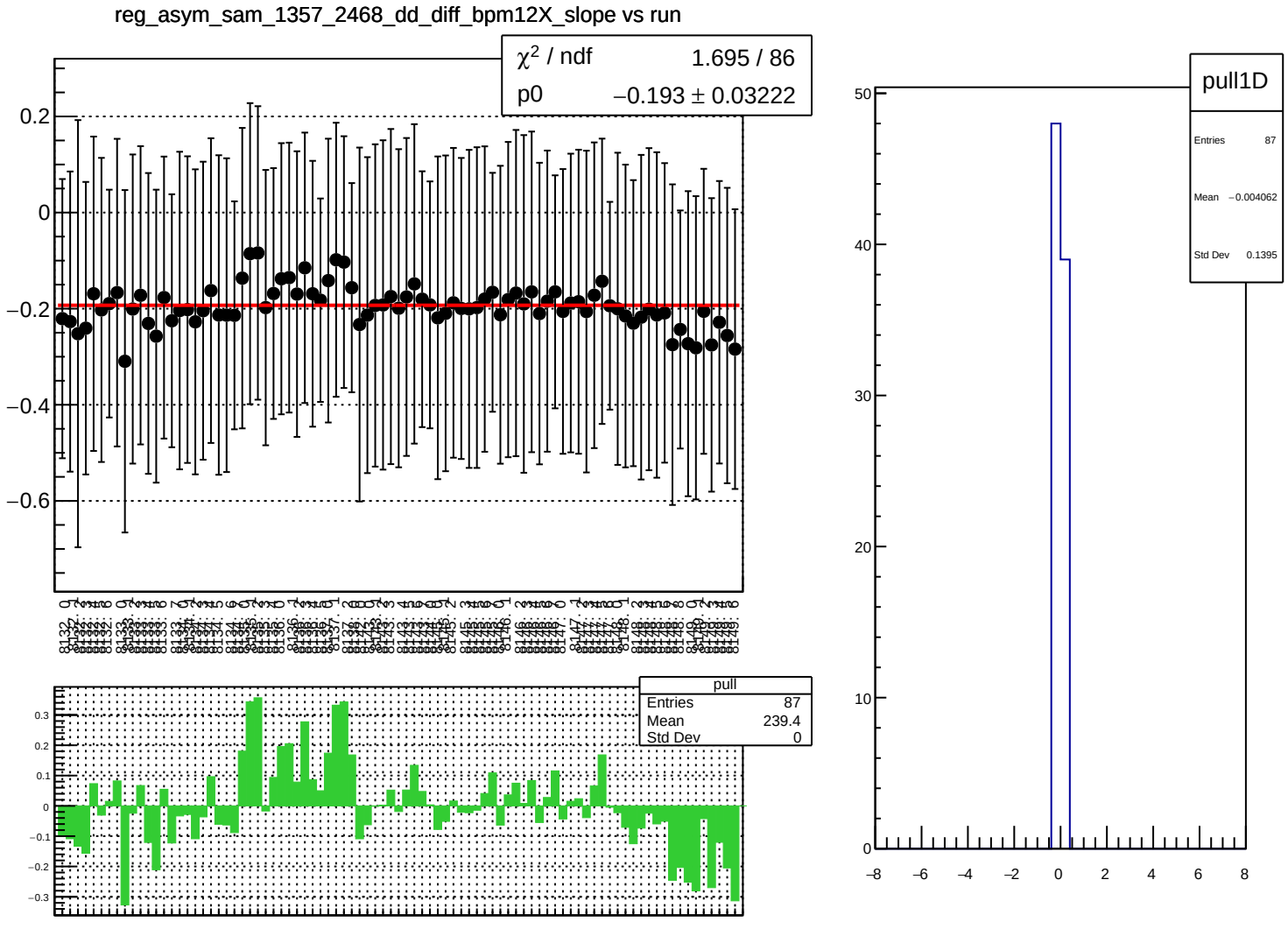

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 11.97 / 86
p0 0.5234 ± 0.1276
pull
Entries 87
Mean 1422
Std Dev 0
pull1D
Entries 87
Mean 0.005201
Std Dev 0.3708

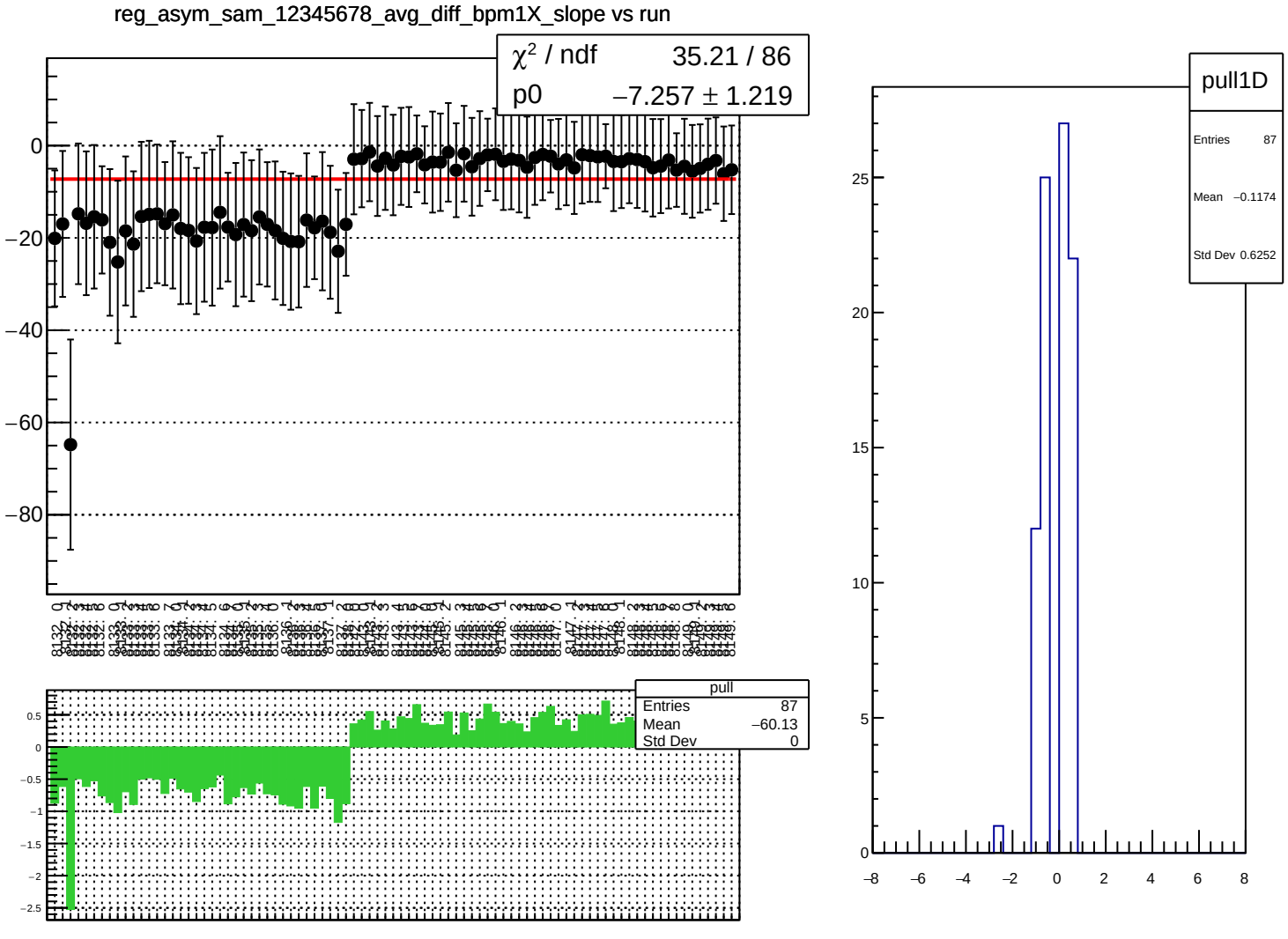

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 11.52 / 86
p0 1.776 ± 0.4124
pull
Entries 87
Mean −64.19
Std Dev 0
pull1D
Entries 87
Mean 0.0632
Std Dev 0.3584

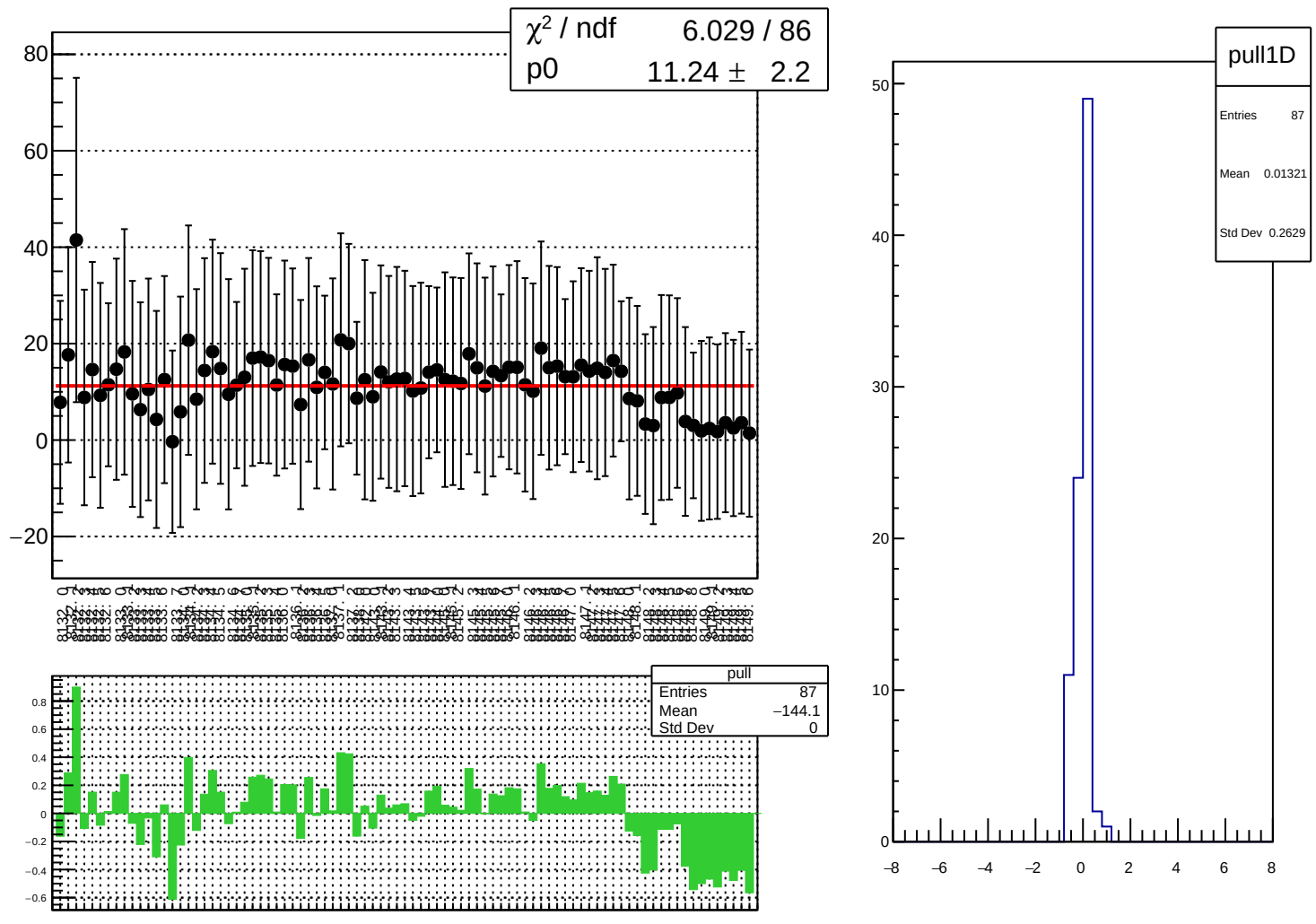

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.2 / 86
p0 3.009 ± 0.7429
pull
Entries 87
Mean 235.9
Std Dev 0
pull1D
Entries 87
Mean −0.005922
Std Dev 0.2876

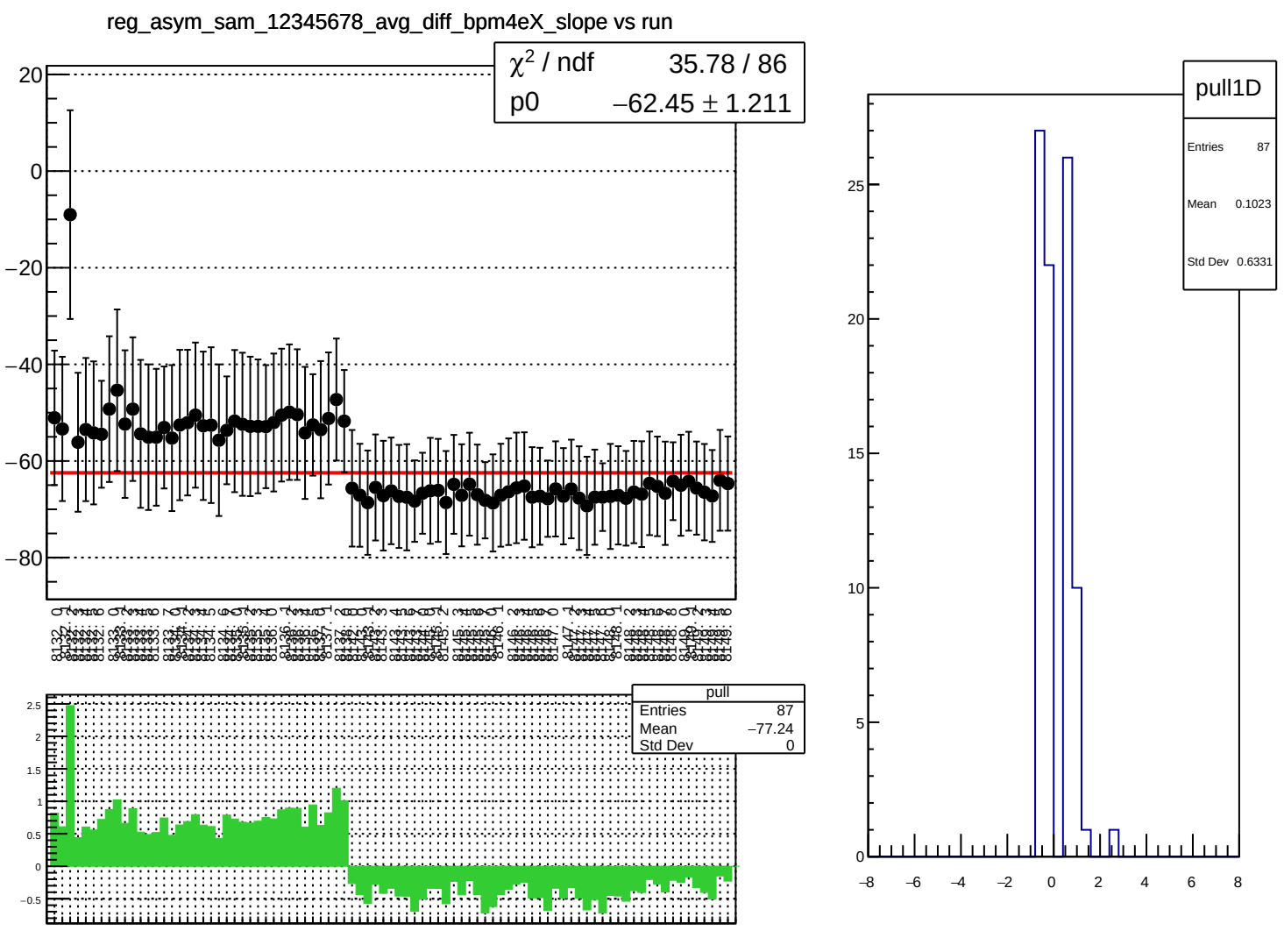

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 15.75 / 86
p0 21.73 ± 0.4096
pull
Entries 87
Mean −85.3
Std Dev 0
pull1D
Entries 87
Mean −0.06342
Std Dev 0.4207

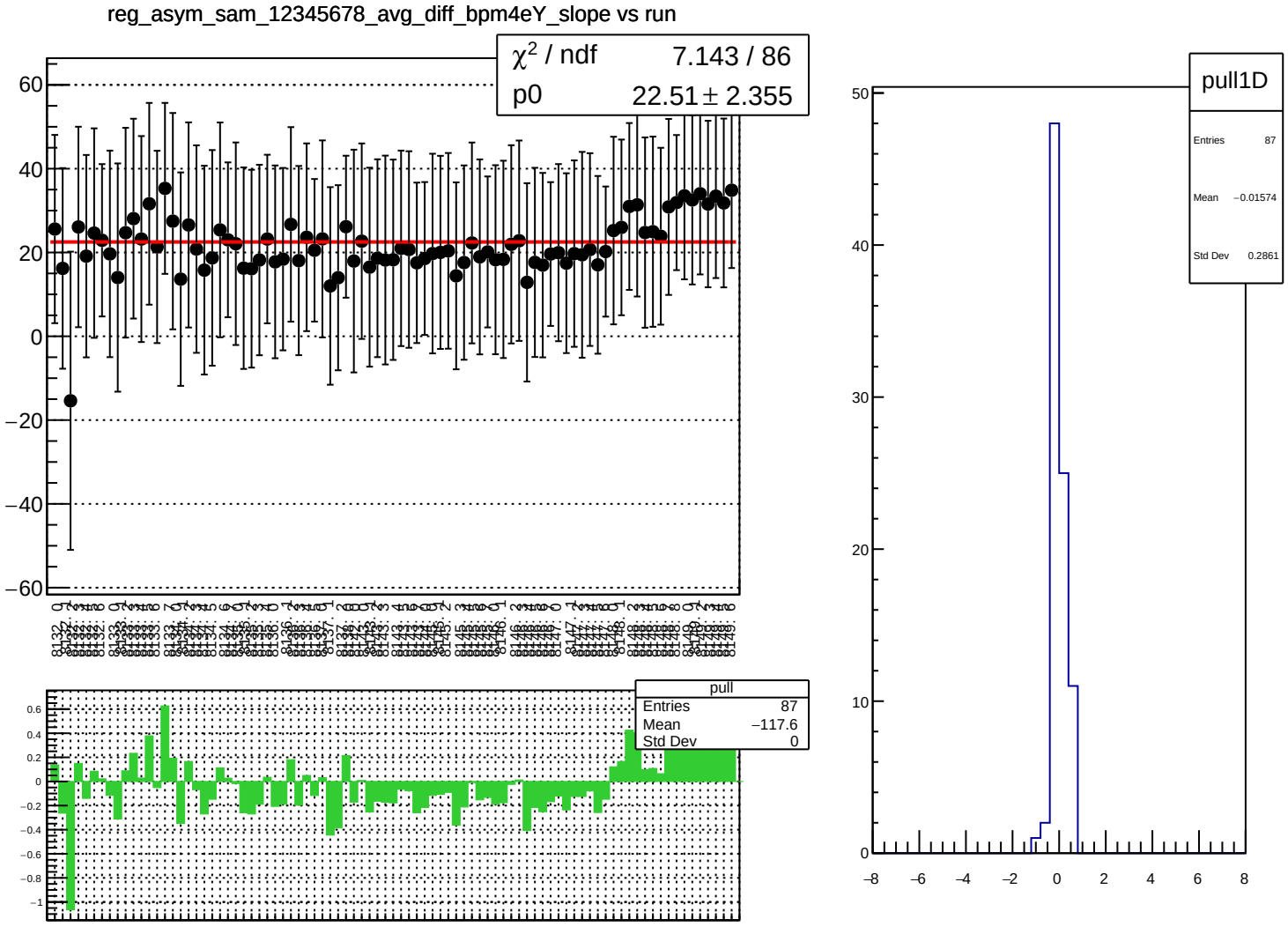

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.787 / 86
p0 −7.66 ± 0.7951
pull
Entries 87
Mean 135.6
Std Dev 0
pull1D
Entries 87
Mean 0.007316
Std Dev 0.2991

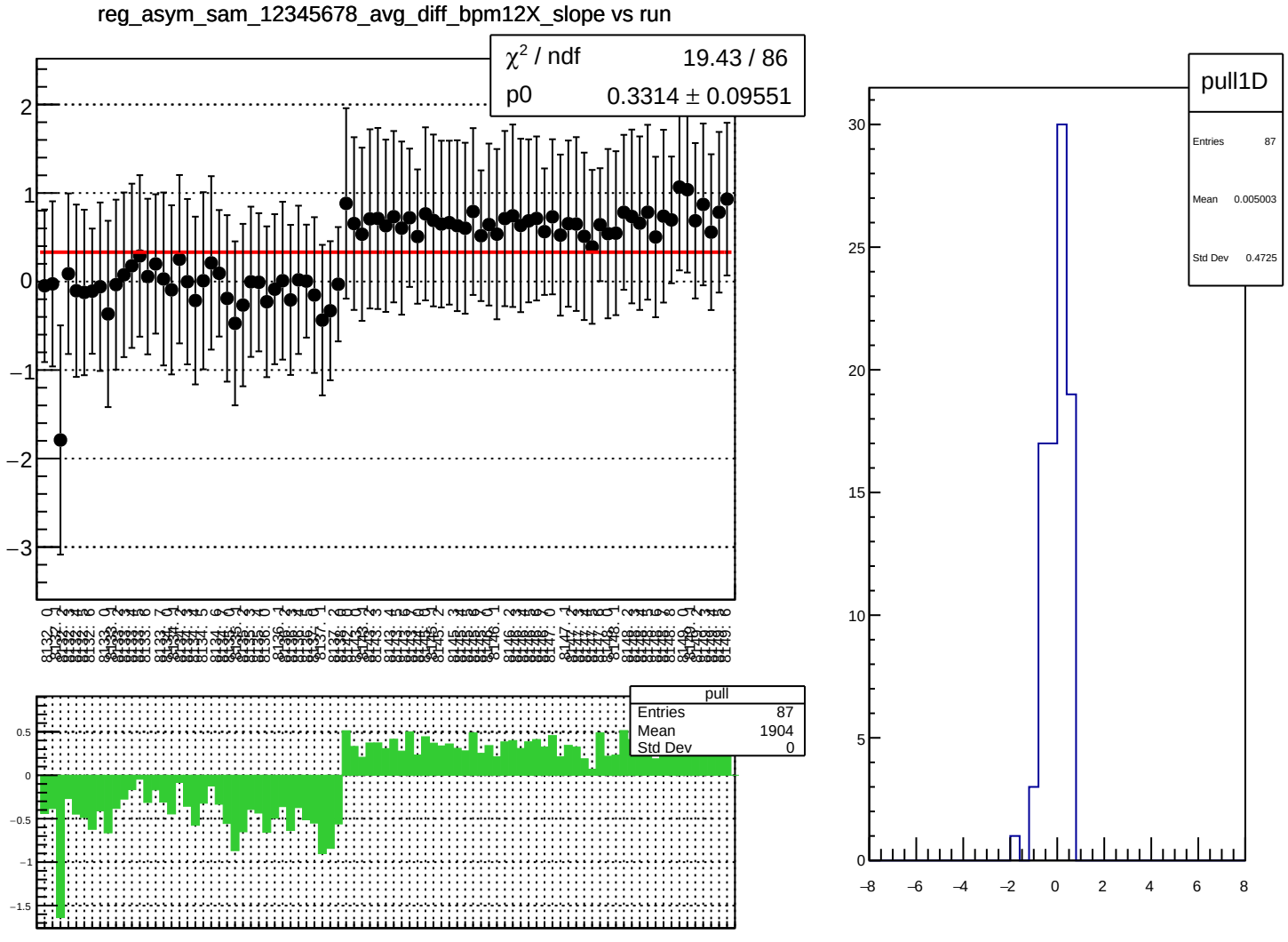

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 1.695 / 86
p0 −0.193 ± 0.03222
pull
Entries 87
Mean 239.4
Std Dev 0
pull1D
Entries 87
Mean −0.004062
Std Dev 0.1395

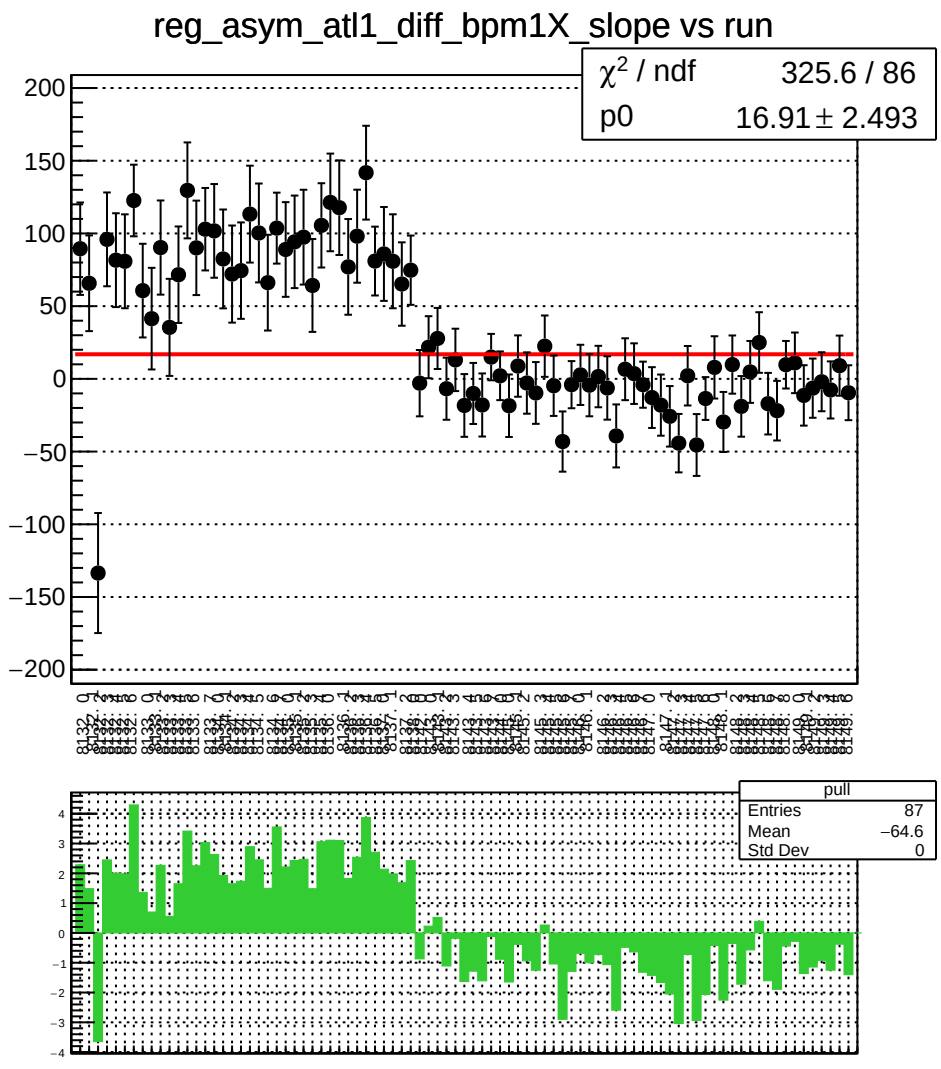

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 35.21 / 86
p0 −7.257 ± 1.219
pull
Entries 87
Mean −60.13
Std Dev 0
pull1D
Entries 87
Mean −0.1174
Std Dev 0.6252

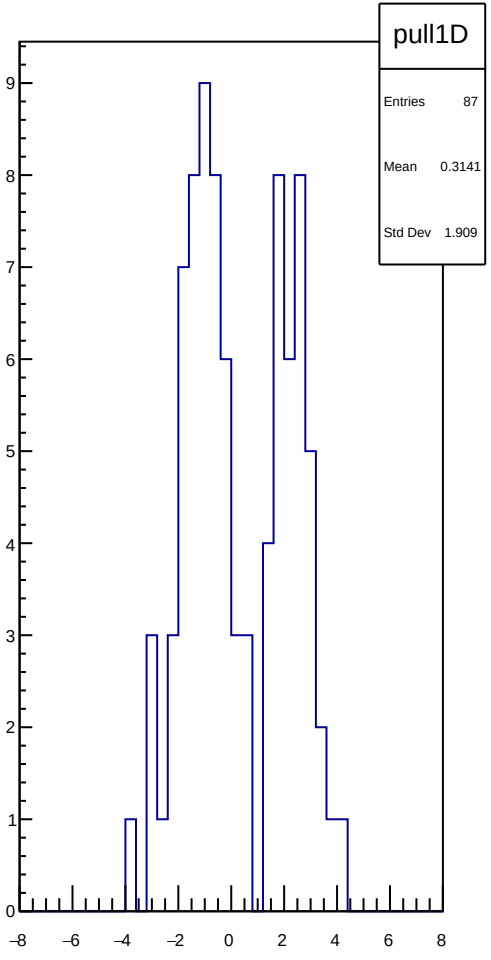

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.029 / 86
p0 11.24 ± 2.2
pull
Entries 87
Mean −144.1
Std Dev 0
pull1D
Entries 87
Mean 0.01321
Std Dev 0.2629

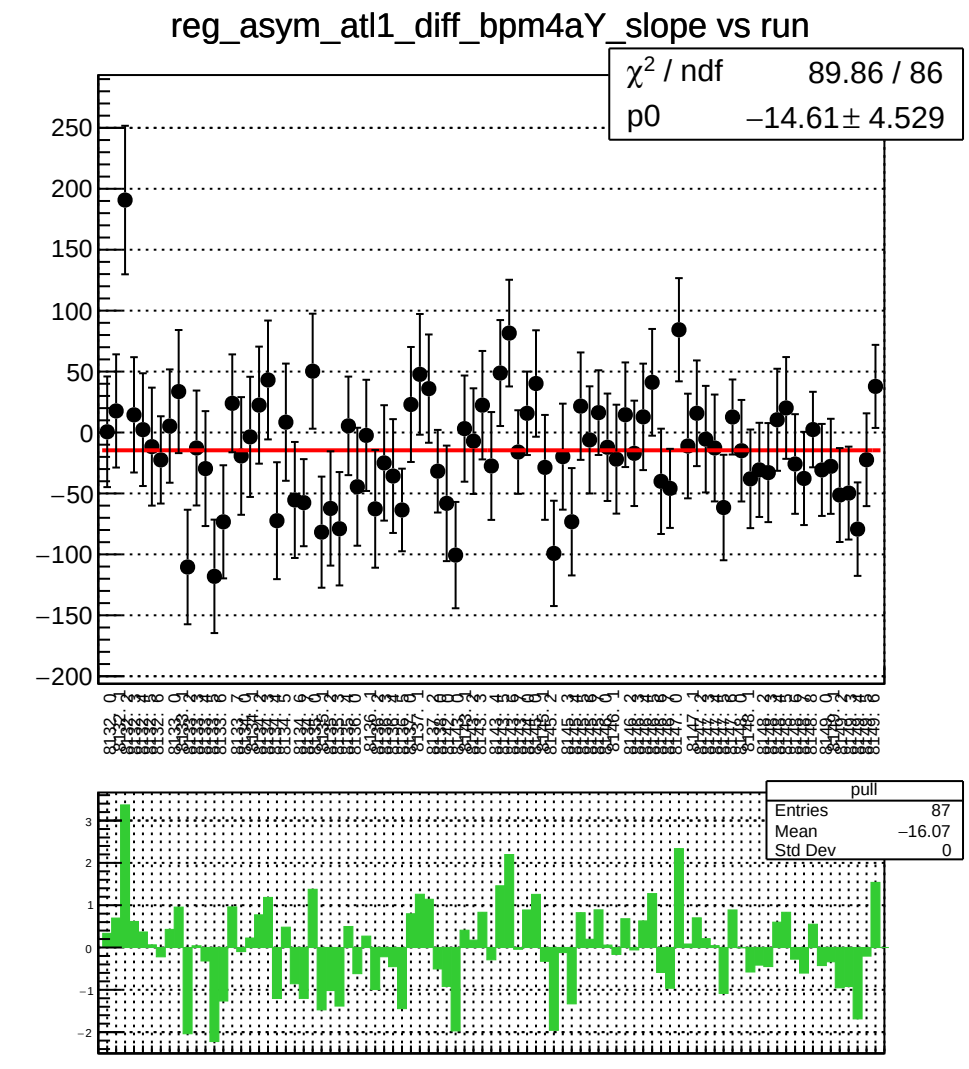

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 35.78 / 86
p0 −62.45 ± 1.211
pull
Entries 87
Mean −77.24
Std Dev 0
pull1D
Entries 87
Mean 0.1023
Std Dev 0.6331

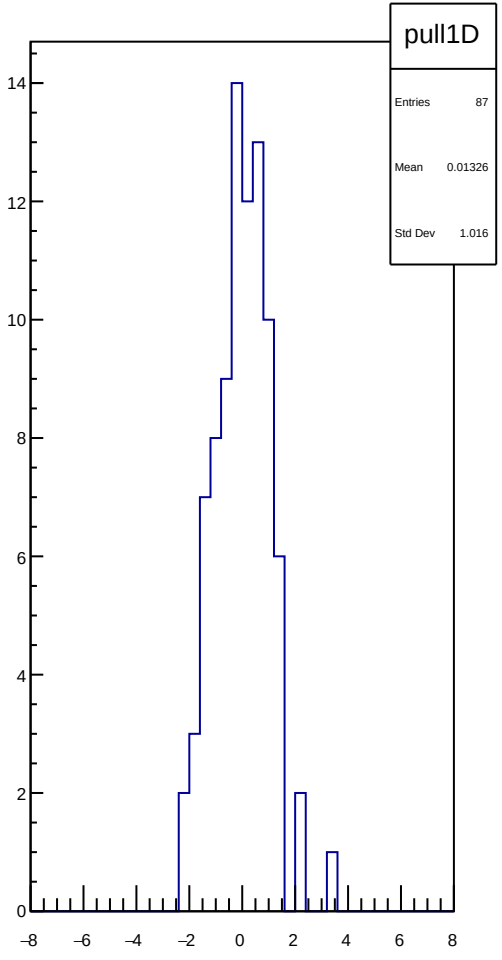

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.143 / 86
p0 22.51 ± 2.355
pull
Entries 87
Mean −117.6
Std Dev 0
pull1D
Entries 87
Mean −0.01574
Std Dev 0.2861

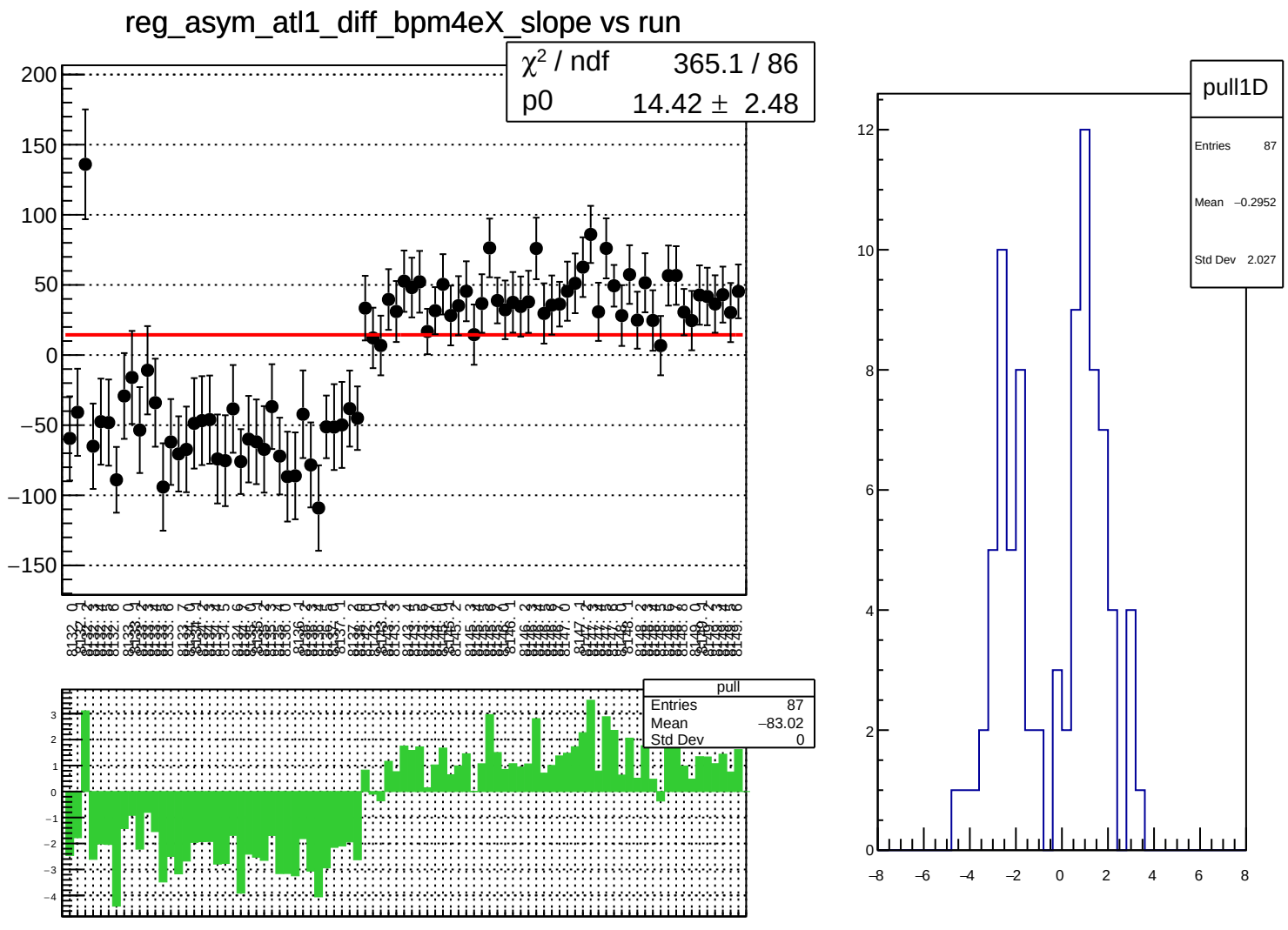

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 19.43 / 86
p0 0.3314 ± 0.09551
pull
Entries 87
Mean 1904
Std Dev 0
pull1D
Entries 87
Mean 0.005003
Std Dev 0.4725

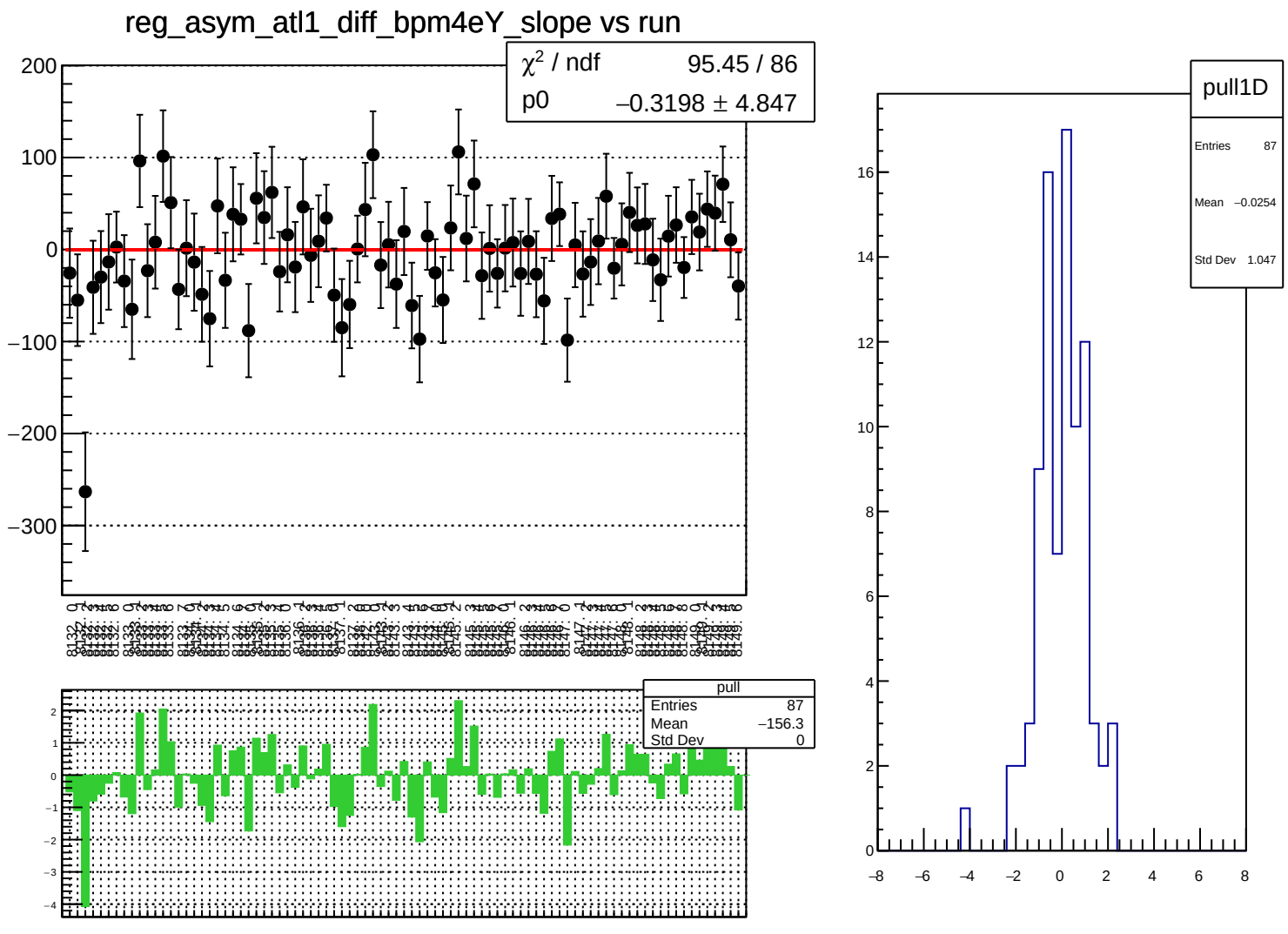

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 325.6 / 86
p0 16.91 ± 2.493
pull
Entries 87
Mean −64.6
Std Dev 0

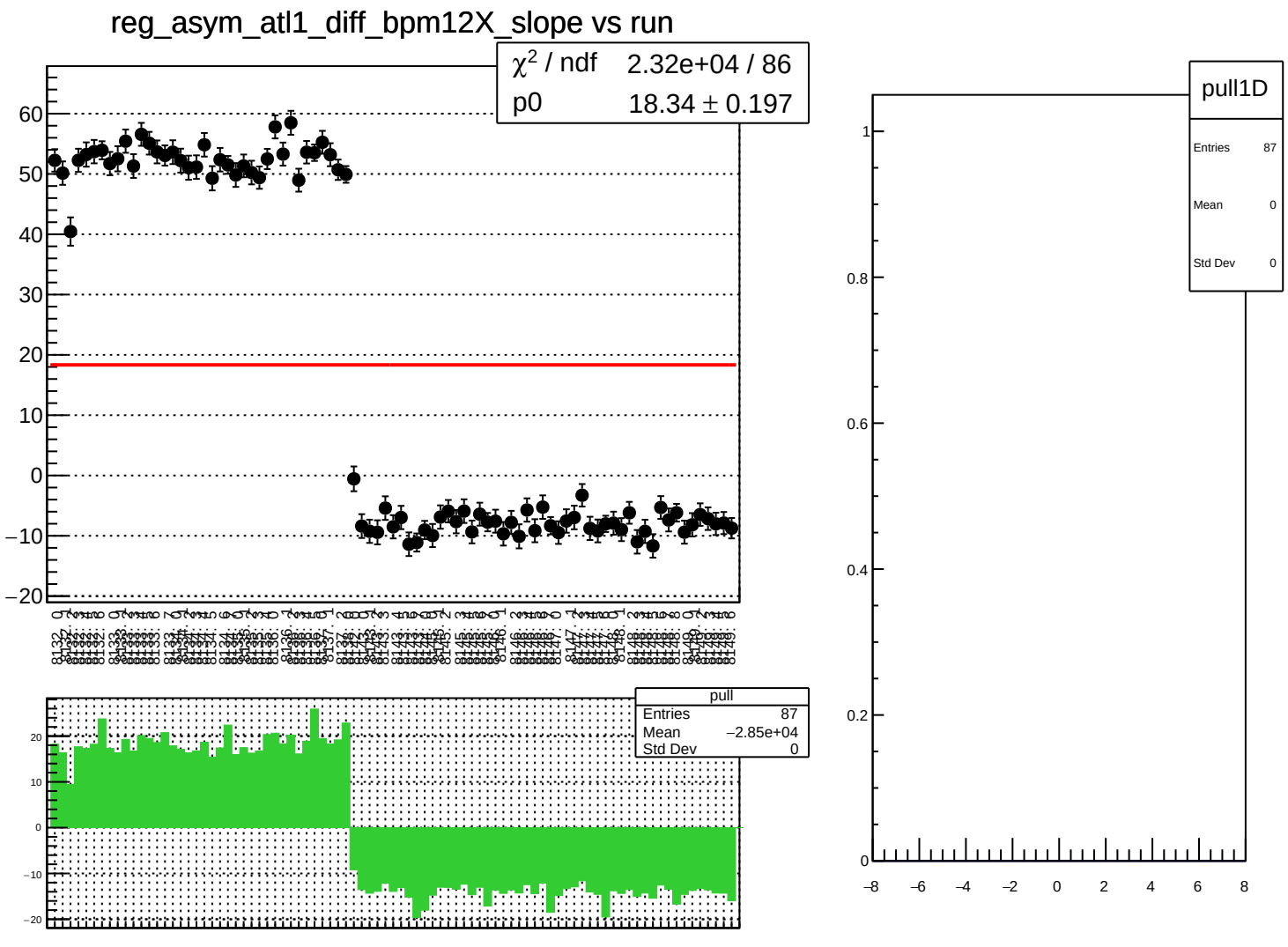

pull1D
Entries 87
Mean 0.3141
Std Dev 1.909

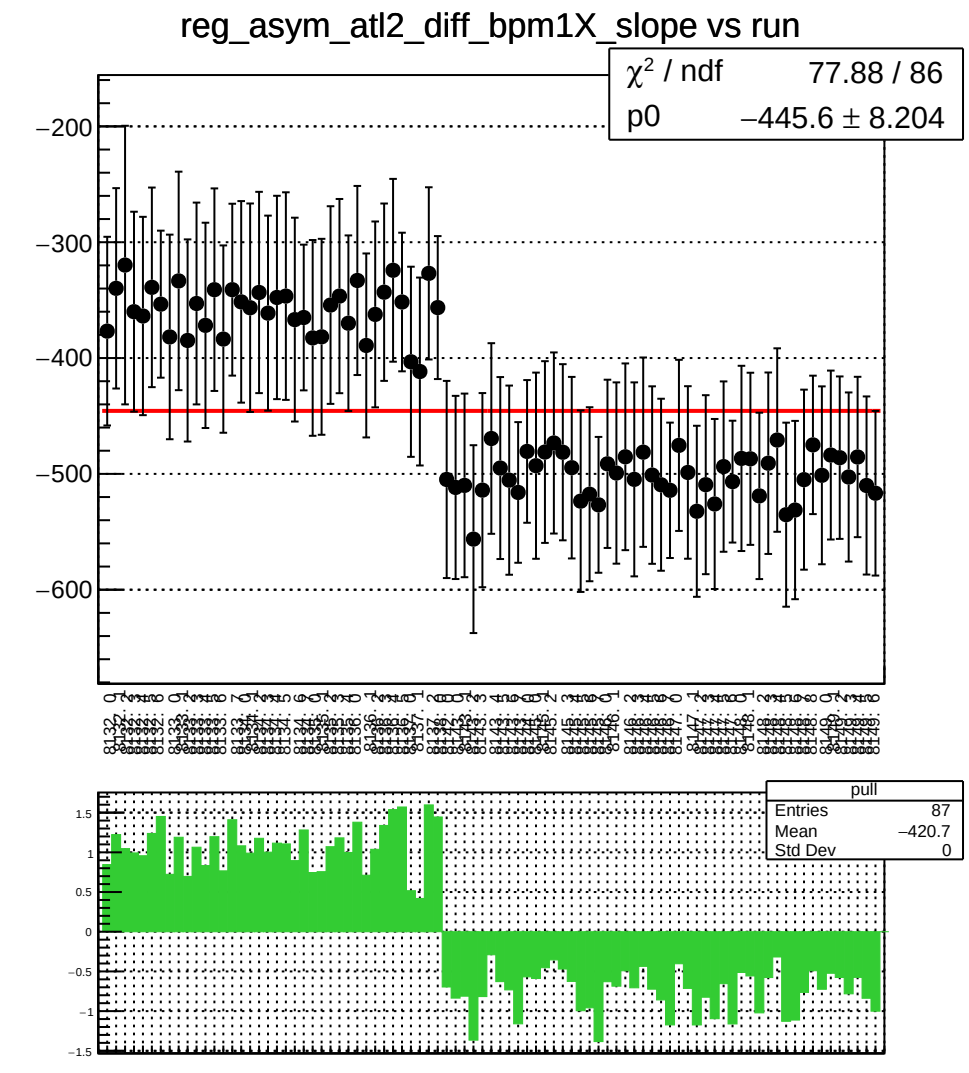

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 89.86 / 86
p0 −14.61 ± 4.529
pull
Entries 87
Mean −16.07
Std Dev 0

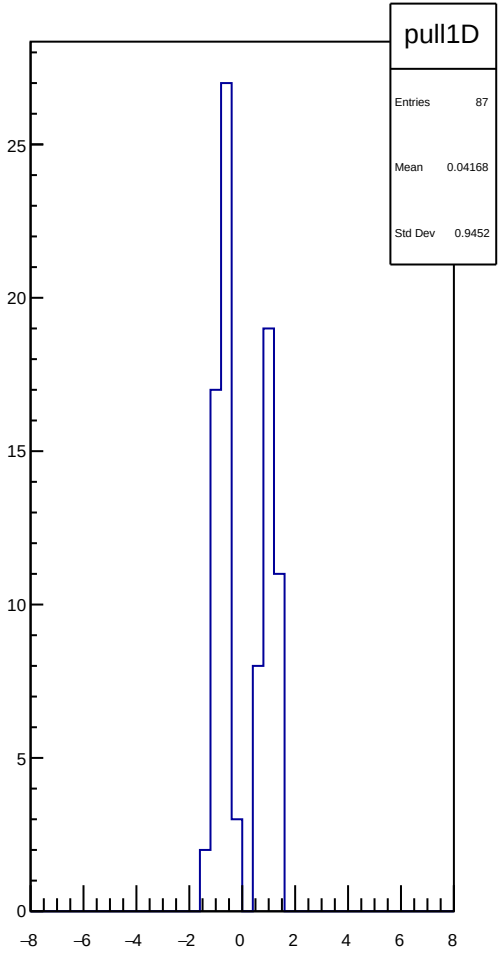

pull1D
Entries 87
Mean 0.01326
Std Dev 1.016

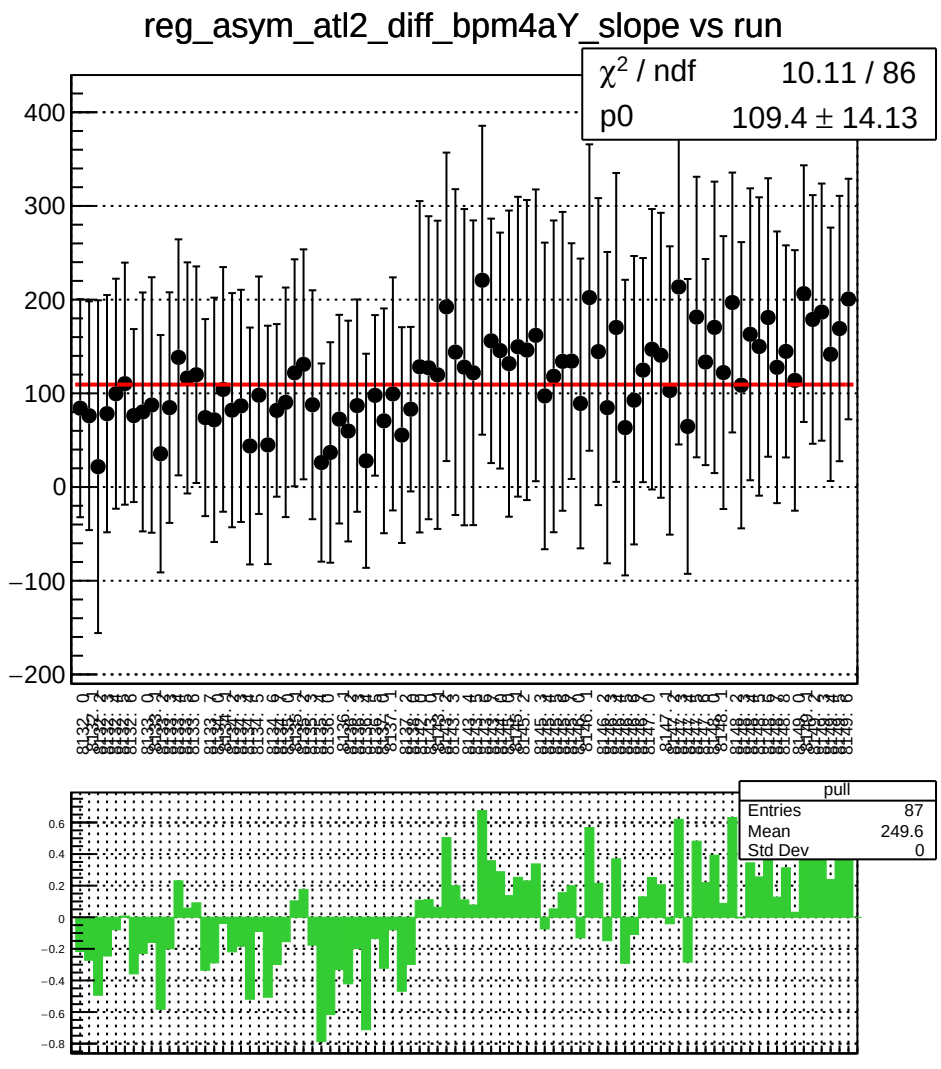

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 365.1 / 86
p0 14.42 ± 2.48
pull
Entries 87
Mean −83.02
Std Dev 0
pull1D
Entries 87
Mean −0.2952
Std Dev 2.027

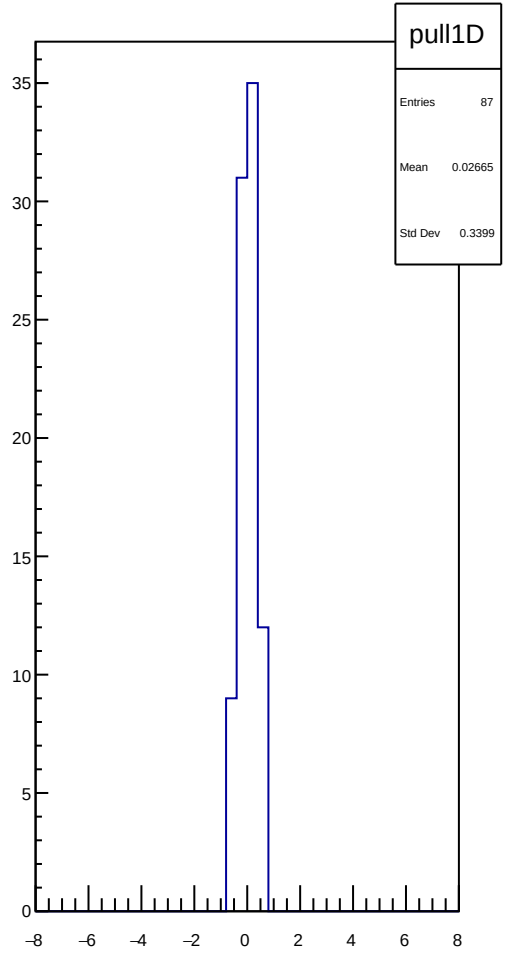

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 95.45 / 86
p0 −0.3198 ± 4.847
200
100
0
−100
−200
−300
pull
Entries 87
Mean −156.3
Std Dev 0
pull1D
Entries 87
Mean −0.0254
Std Dev 1.047

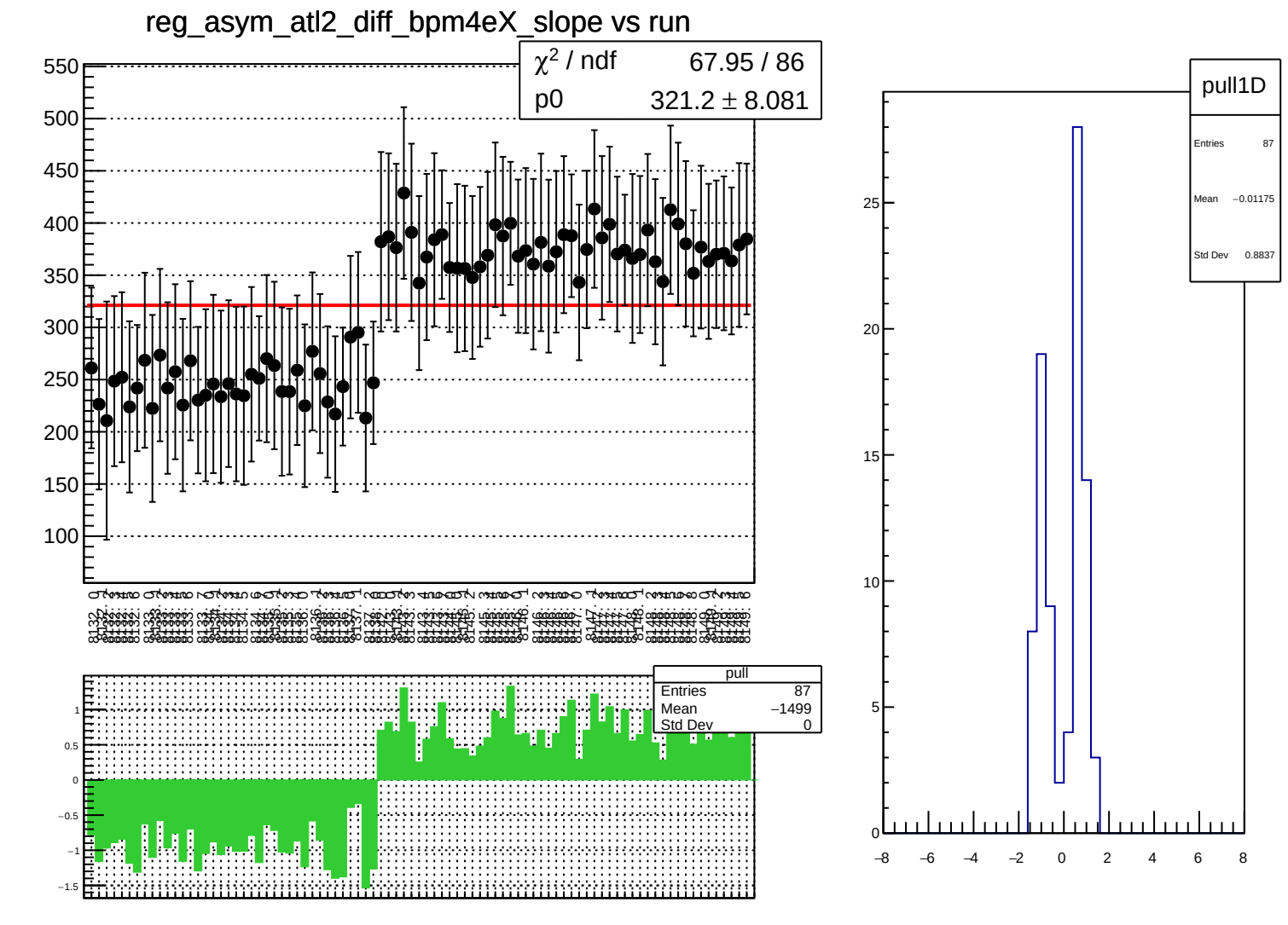

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 2.32e+04 / 86
p0 18.34 ± 0.197
pull
Entries 87
Mean −2.85e+04
Std Dev 0
pull1D
Entries 87
Mean 0
Std Dev 0

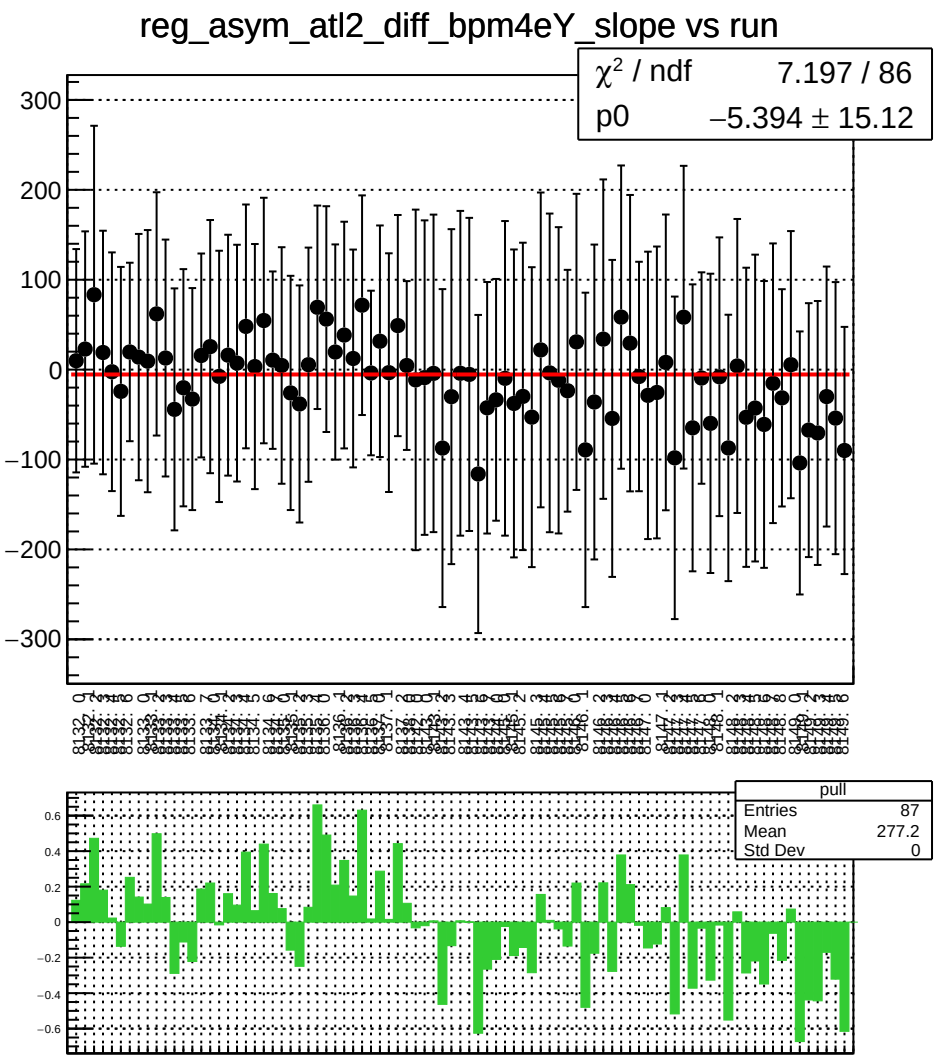

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 77.88 / 86
p0 −445.6 ± 8.204
−200
−300
−400
−500
−600
pull
Entries 87
Mean −420.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

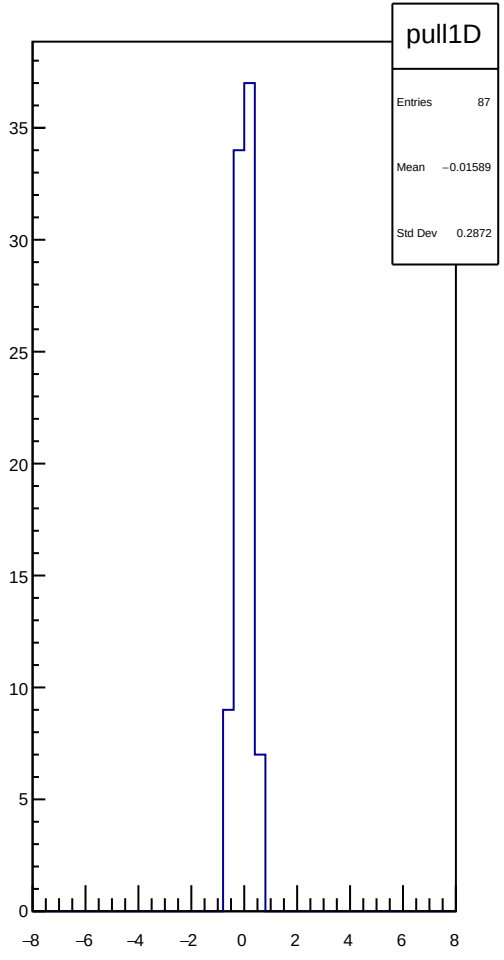

pull1D
Entries 87
Mean 0.04168
Std Dev 0.9452
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

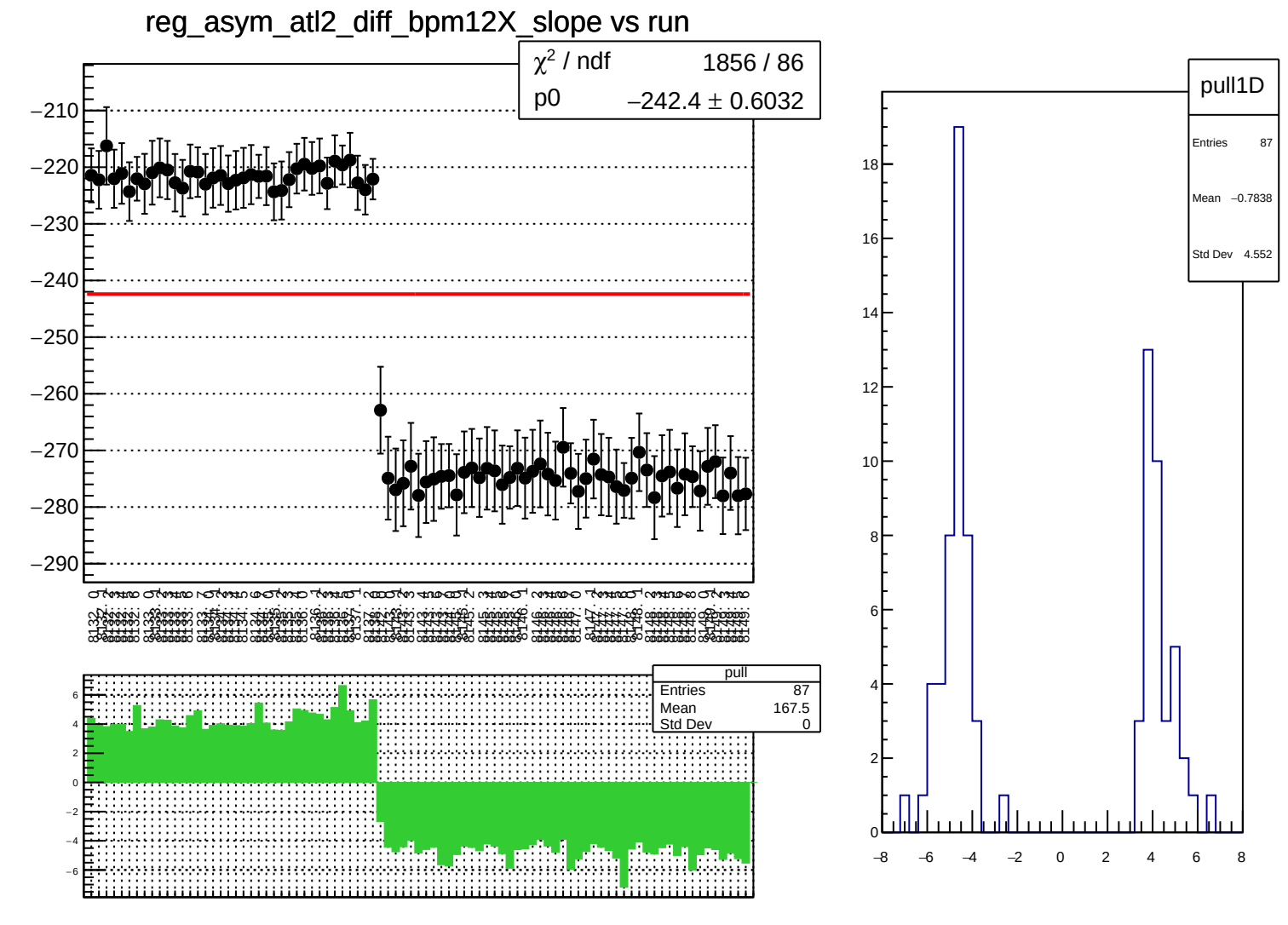

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 10.11 / 86
p0 109.4 ± 14.13
pull
Entries 87
Mean 249.6
Std Dev 0

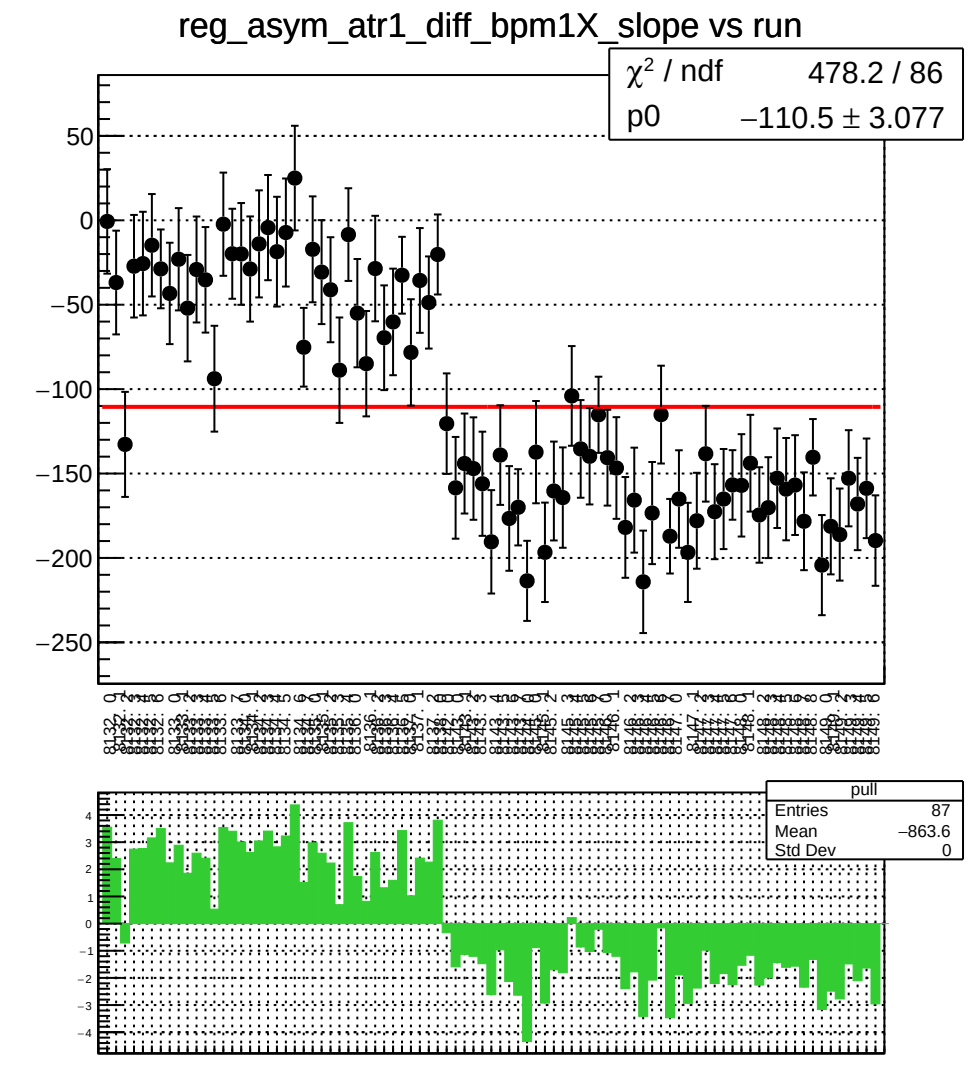

pull1D
Entries 87
Mean 0.02665
Std Dev 0.3399

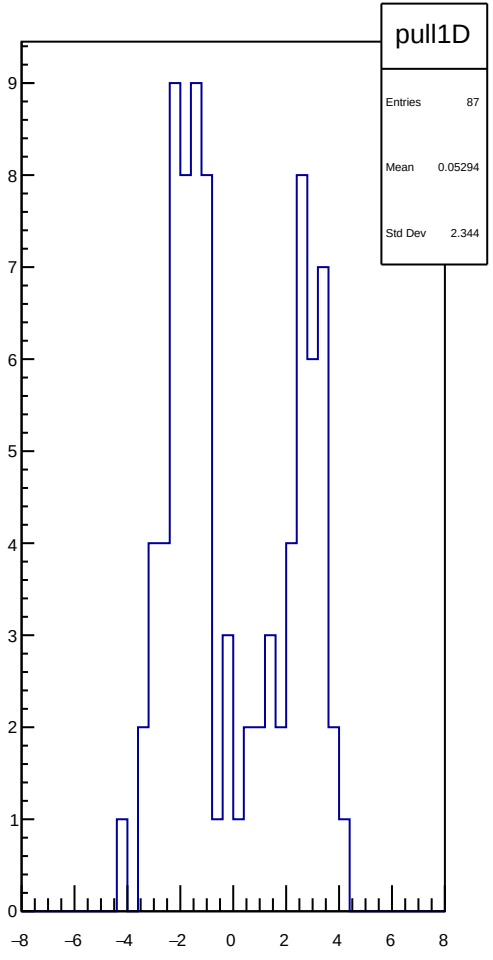

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 67.95 / 86
p0 321.2 ± 8.081
pull
Entries 87
Mean −1499
Std Dev 0
pull1D
Entries 87
Mean −0.01175
Std Dev 0.8837

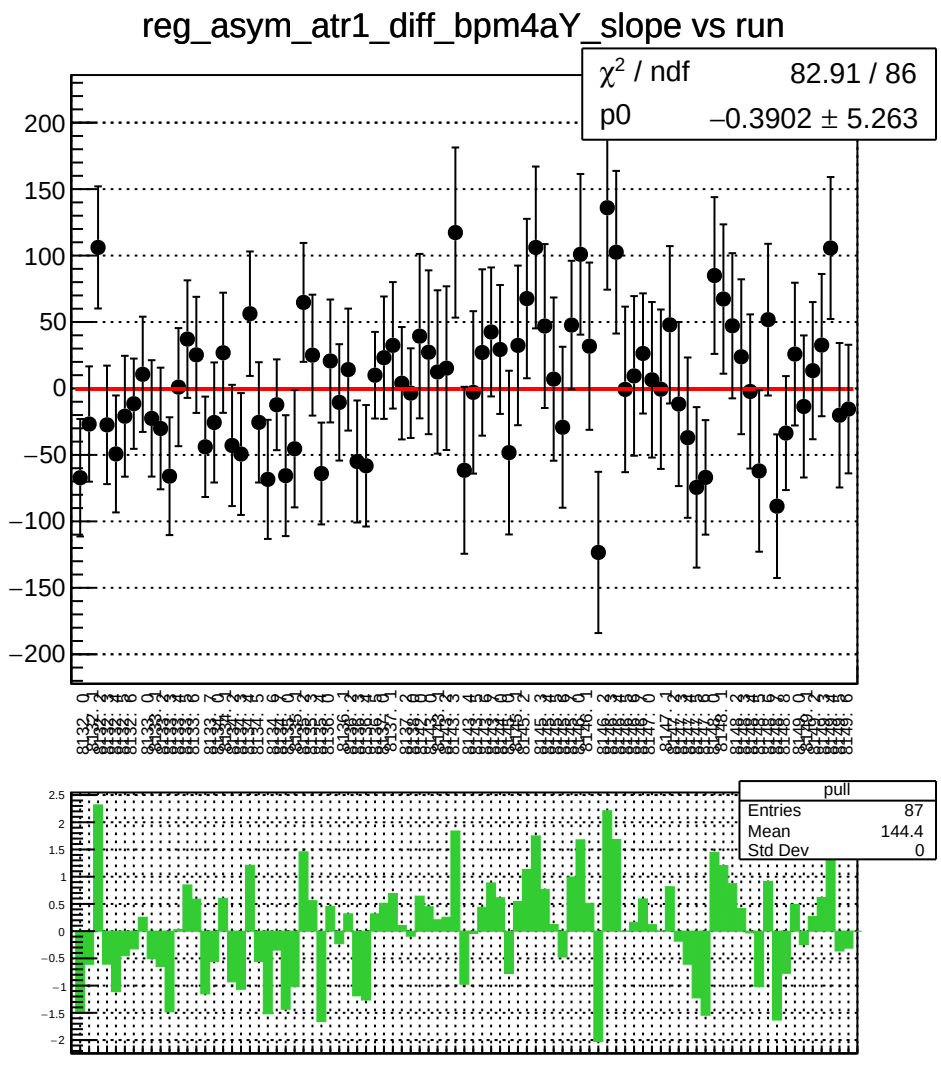

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 7.197 / 86
p0 −5.394 ± 15.12
300
200
100
0
−100
−200
−300
pull
Entries 87
Mean 277.2
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

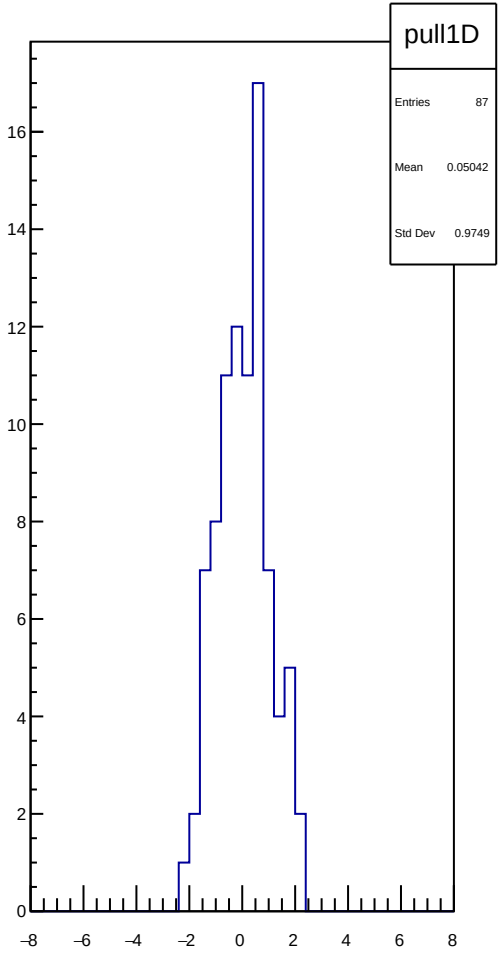

pull1D
Entries 87
Mean −0.01589
Std Dev 0.2872
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

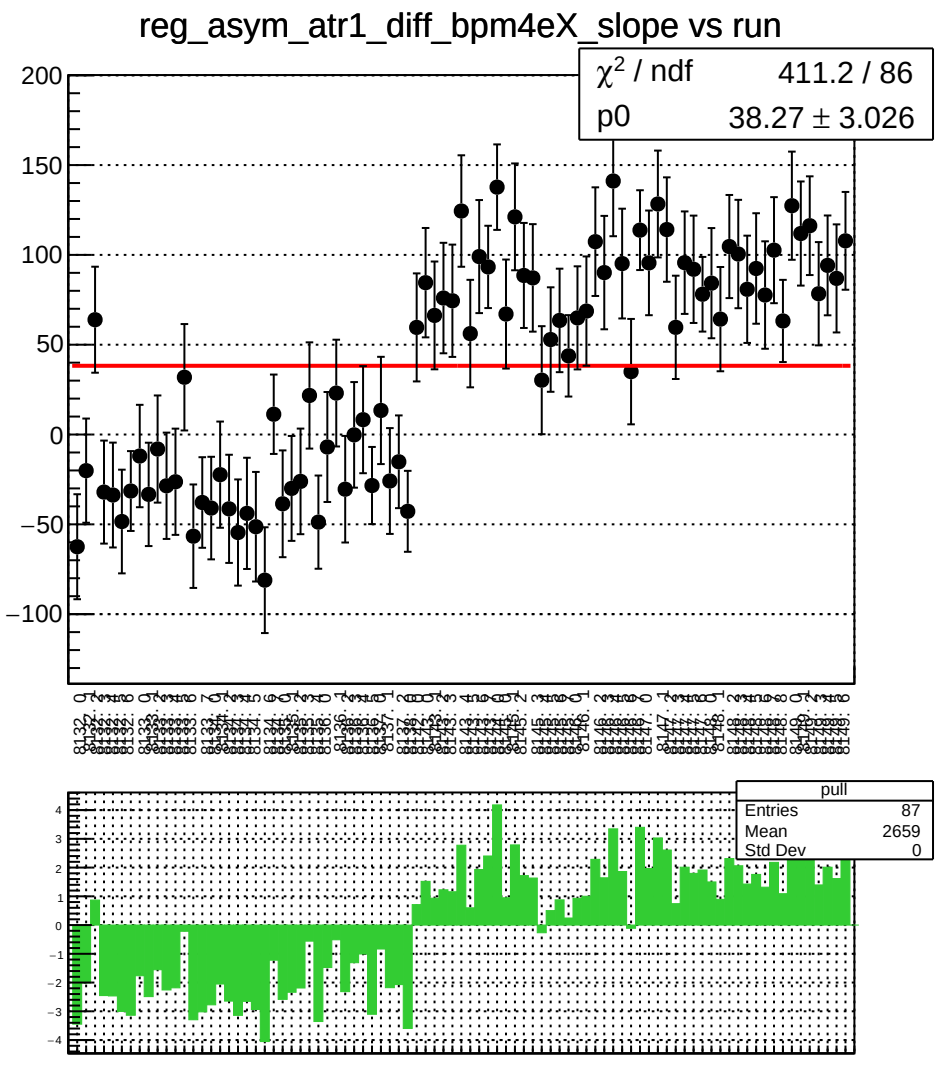

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 1856 / 86
p0 −242.4 ± 0.6032
pull
Entries 87
Mean 167.5
Std Dev 0
pull1D
Entries 87
Mean −0.7838
Std Dev 4.552

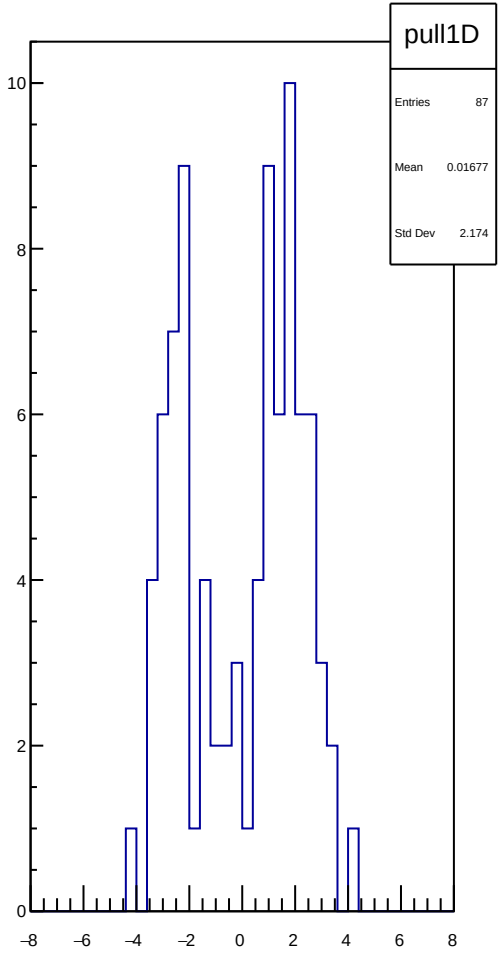

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 478.2 / 86
p0 −110.5 ± 3.077
pull
Entries 87
Mean −863.6
Std Dev 0

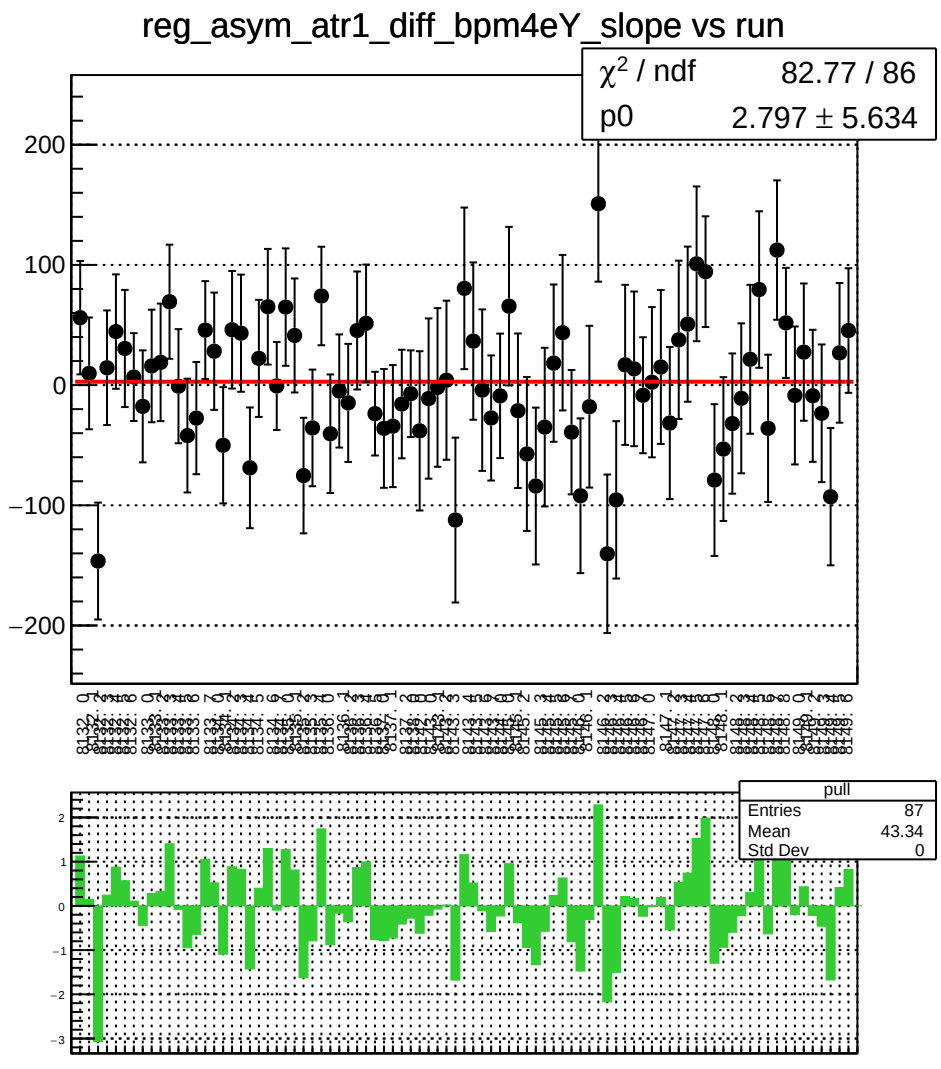

pull1D
Entries 87
Mean 0.05294
Std Dev 2.344

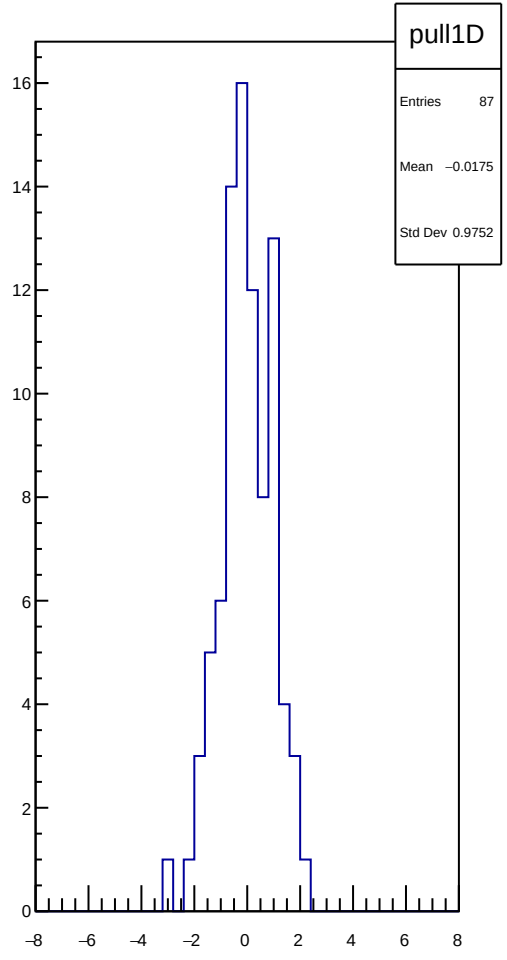

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 82.91 / 86
p0 −0.3902 ± 5.263
pull
Entries 87
Mean 144.4
Std Dev 0

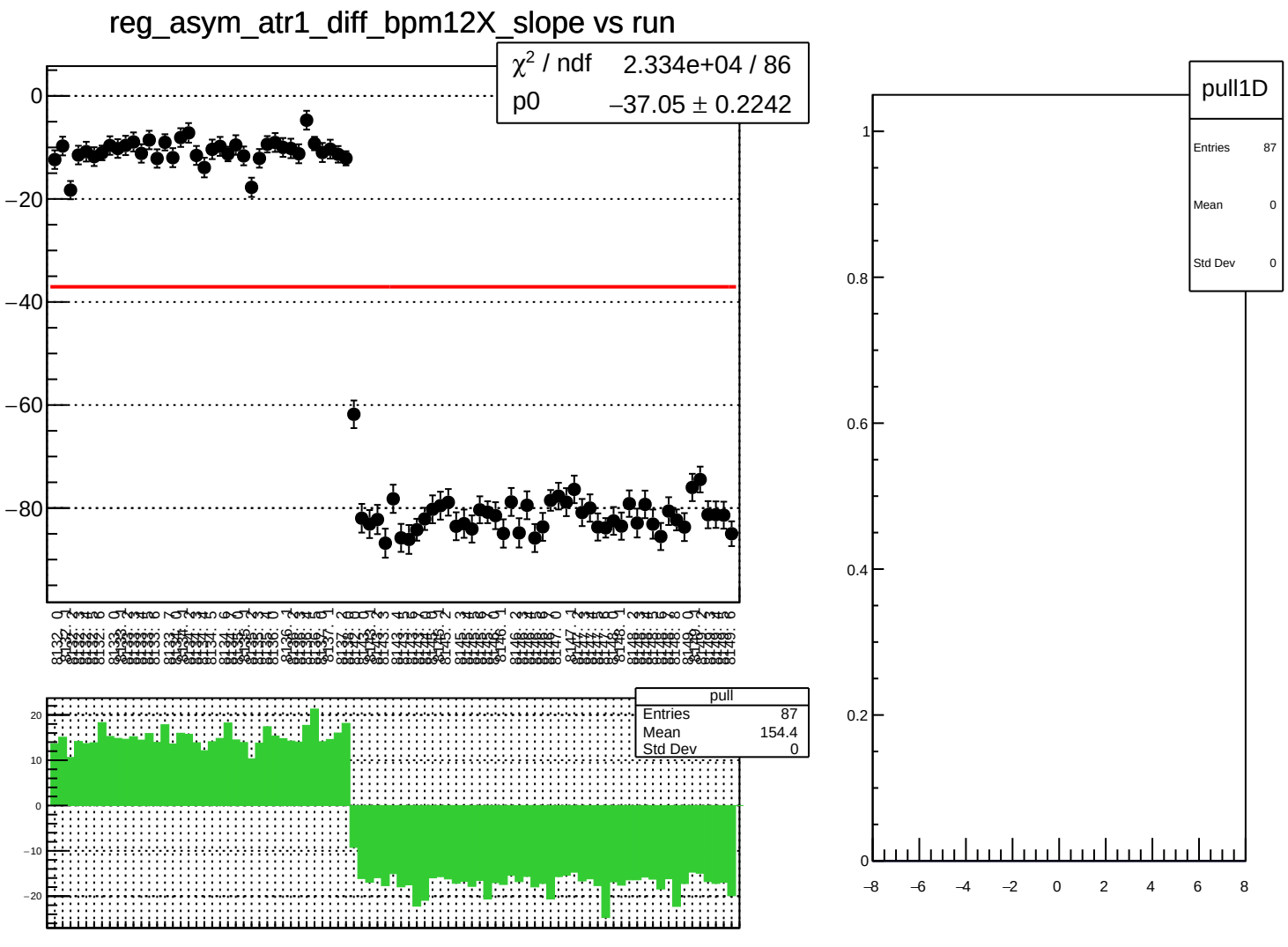

pull1D
Entries 87
Mean 0.05042
Std Dev 0.9749

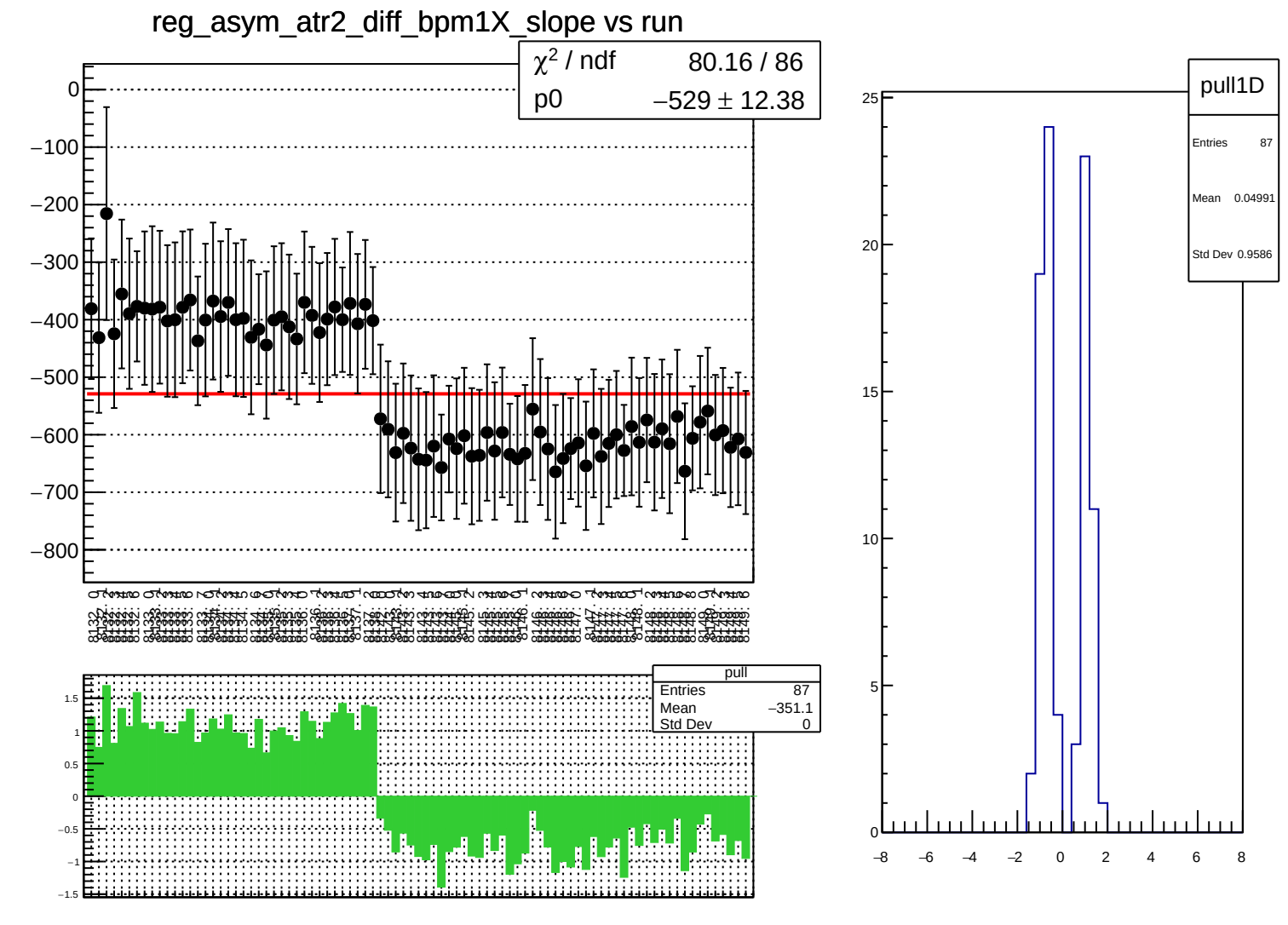

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 411.2 / 86
p0 38.27 ± 3.026
pull
Entries 87
Mean 2659
Std Dev 0

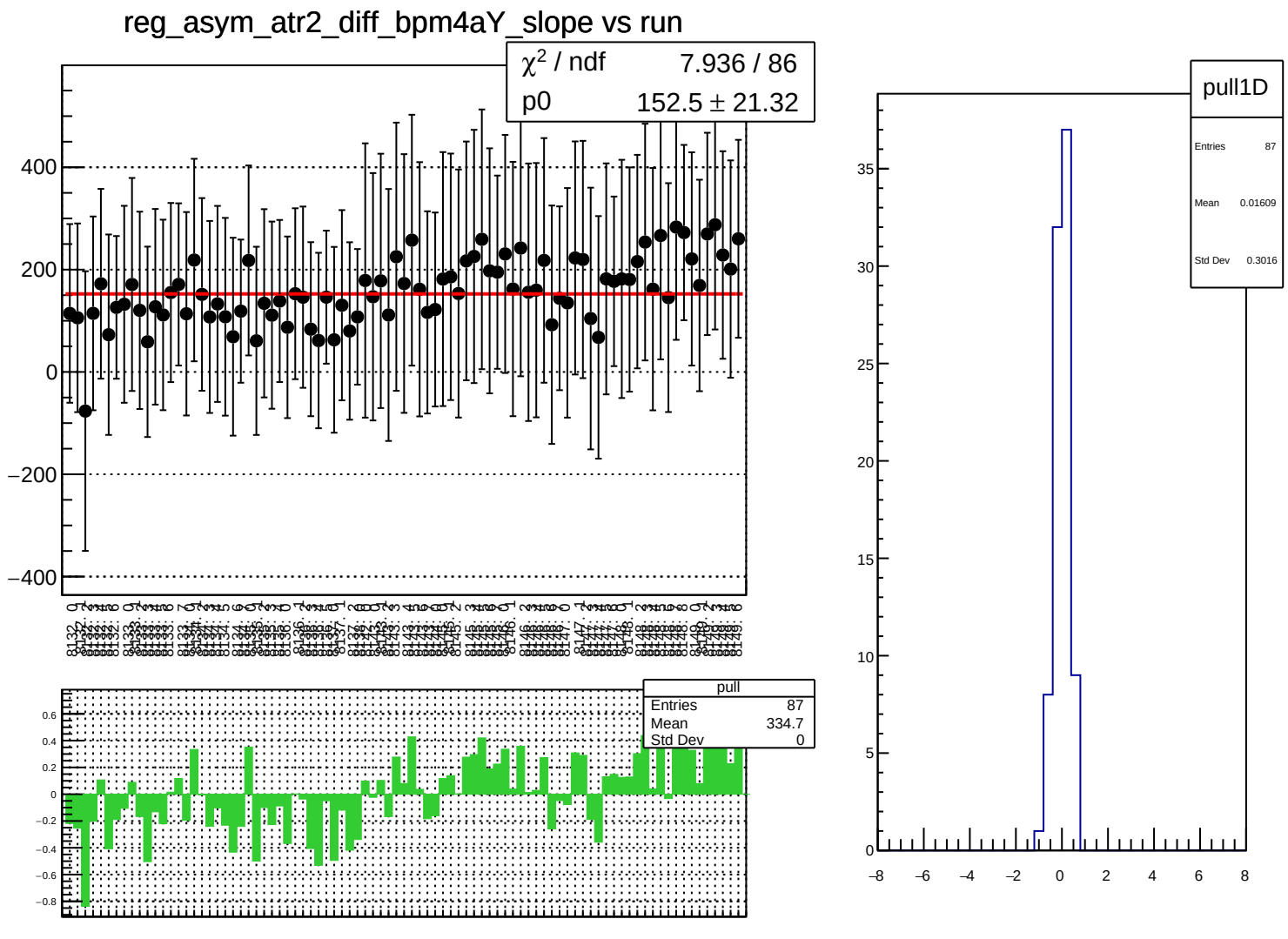

pull1D
Entries 87
Mean 0.01677
Std Dev 2.174

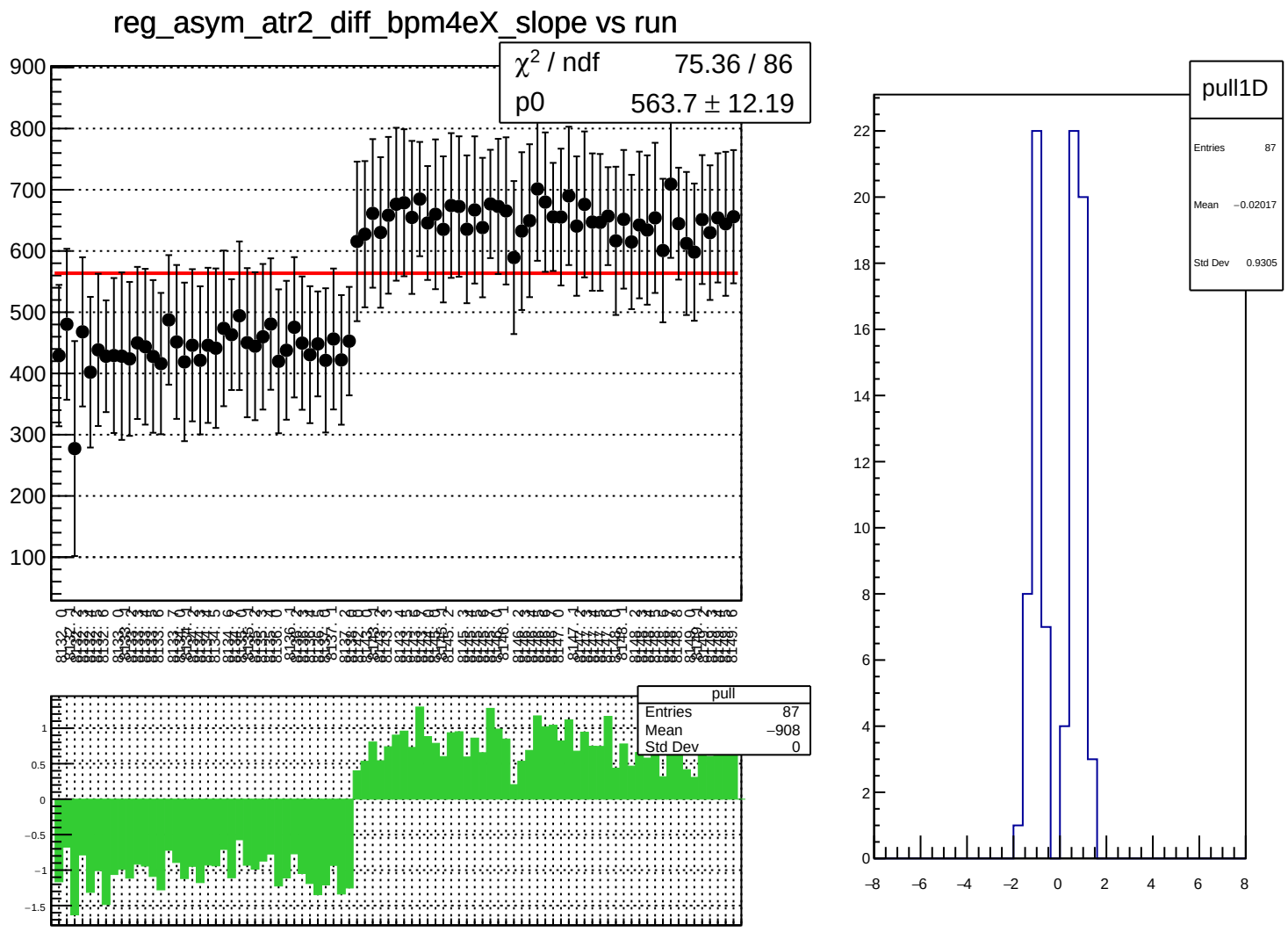

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 82.77 / 86
p0 2.797 ± 5.634
200
100
0
−100
−200
pull
Entries 87
Mean 43.34
Std Dev 0
2
1
0
−1
−2
−3

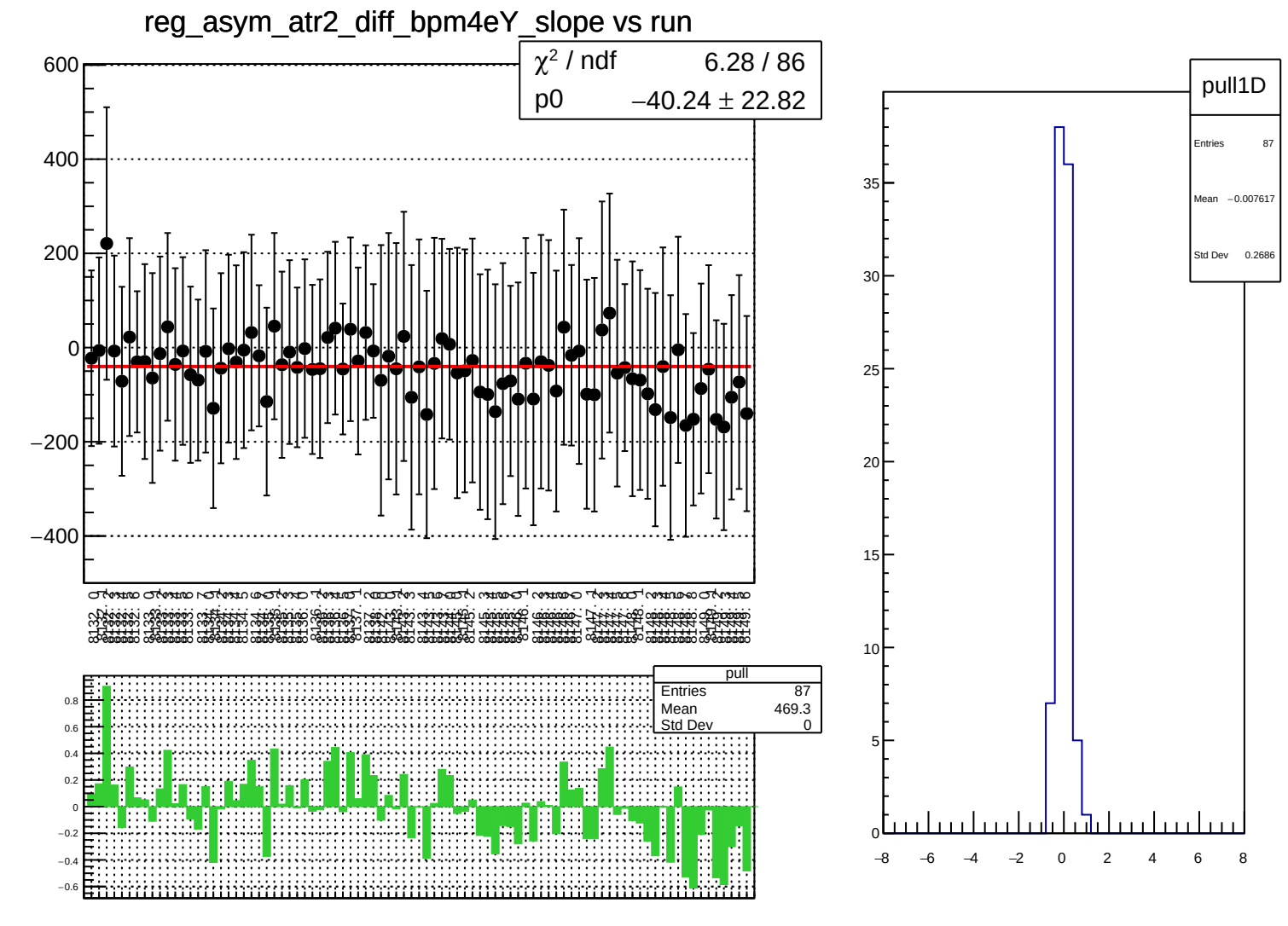

pull1D
Entries 87
Mean −0.0175
Std Dev 0.9752
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

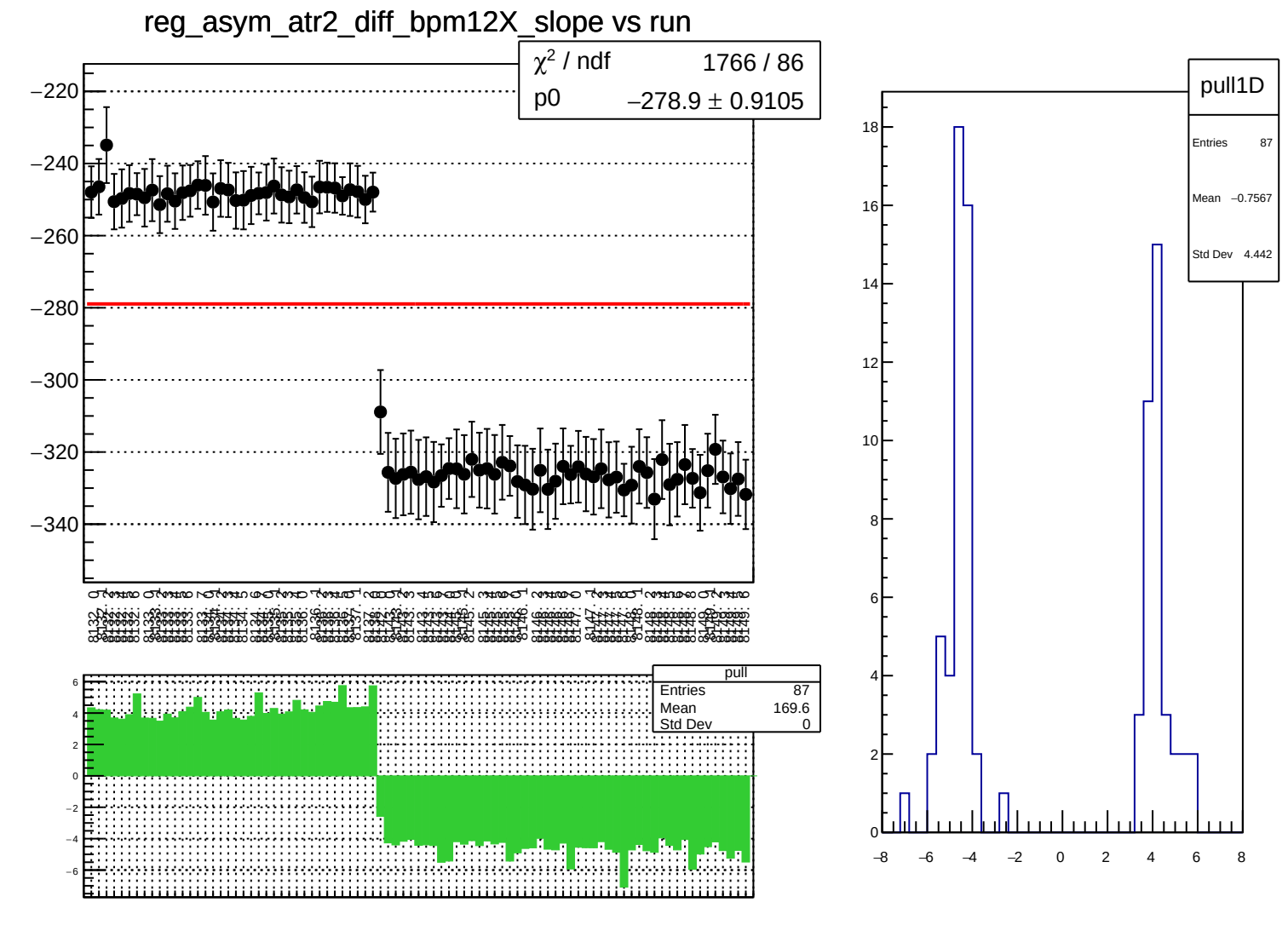

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 2.334e+04 / 86
p0 −37.05 ± 0.2242
pull
Entries 87
Mean 154.4
Std Dev 0
pull1D
Entries 87
Mean 0
Std Dev 0

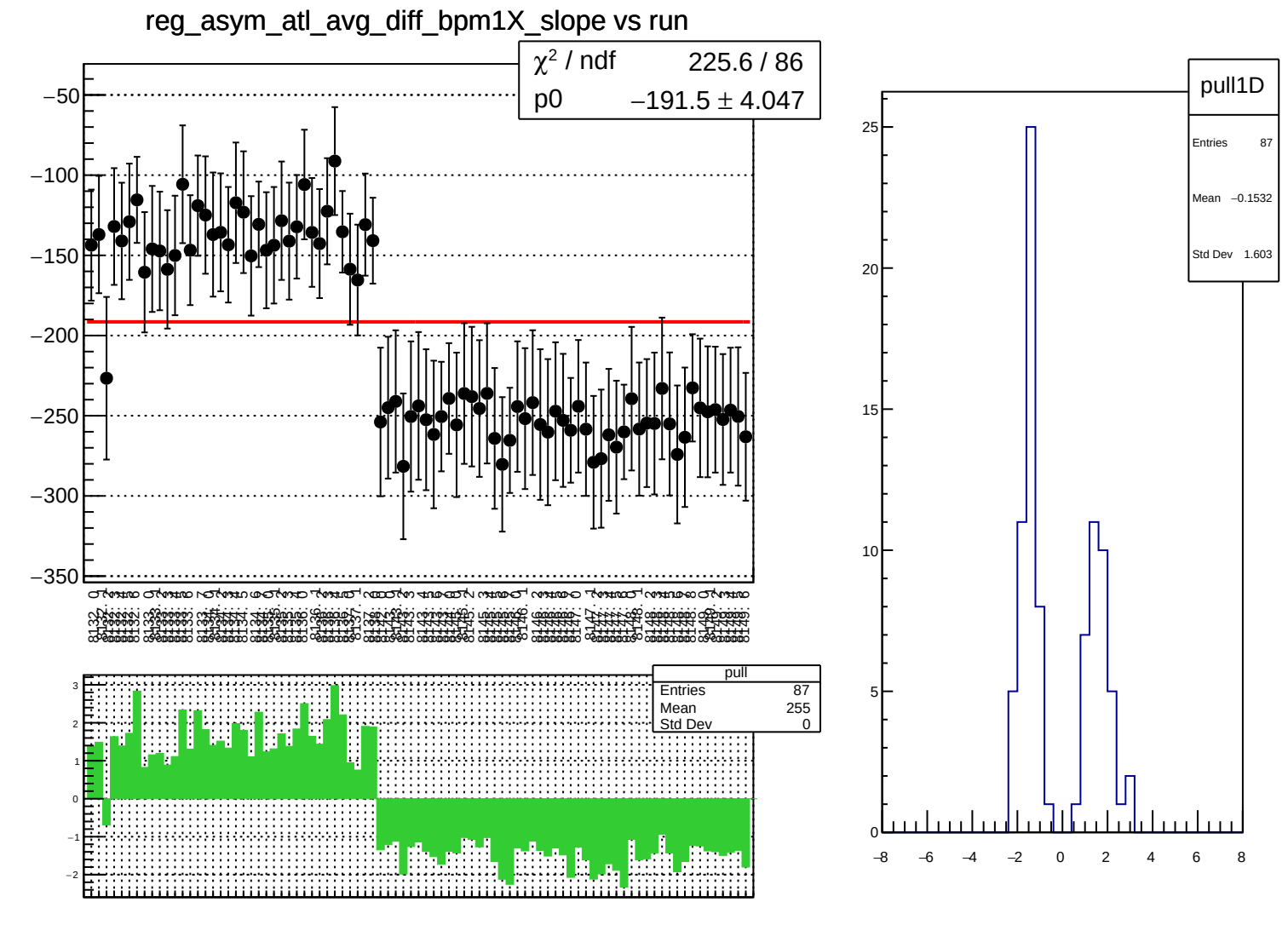

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 80.16 / 86
p0 −529 ± 12.38
pull
Entries 87
Mean −351.1
Std Dev 0
pull1D
Entries 87
Mean 0.04991
Std Dev 0.9586

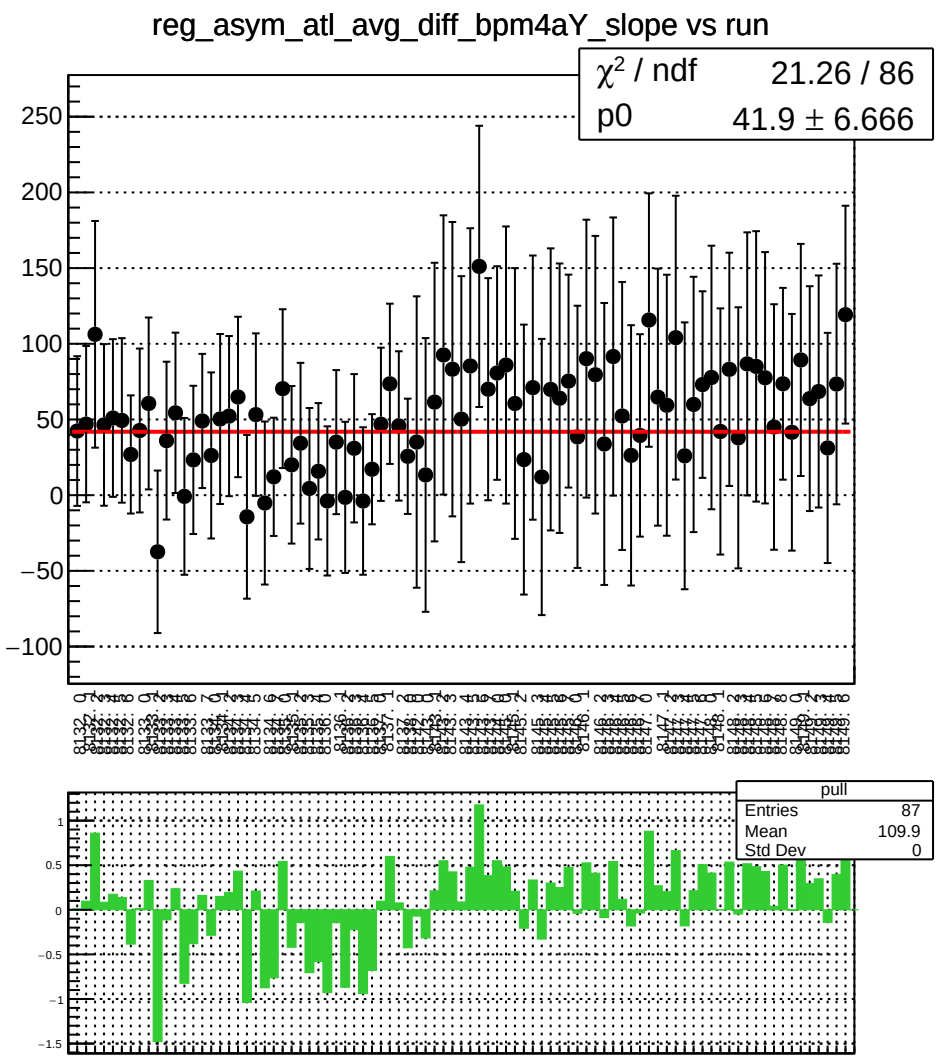

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 7.936 / 86
p0 152.5 ± 21.32
400
200
0
−200
−400
pull
Entries 87
Mean 334.7
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 87
Mean 0.01609
Std Dev 0.3016
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

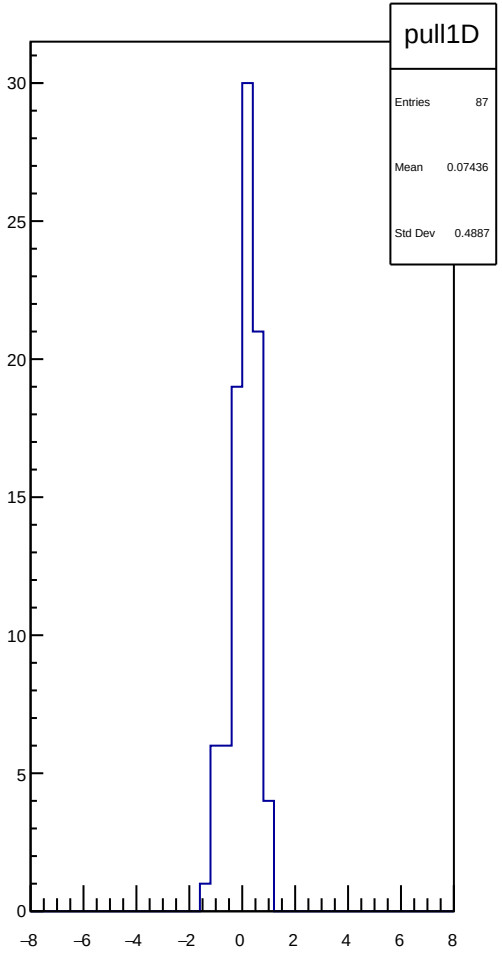

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 75.36 / 86
p0 563.7 ± 12.19
pull
Entries 87
Mean −908
Std Dev 0
pull1D
Entries 87
Mean −0.02017
Std Dev 0.9305

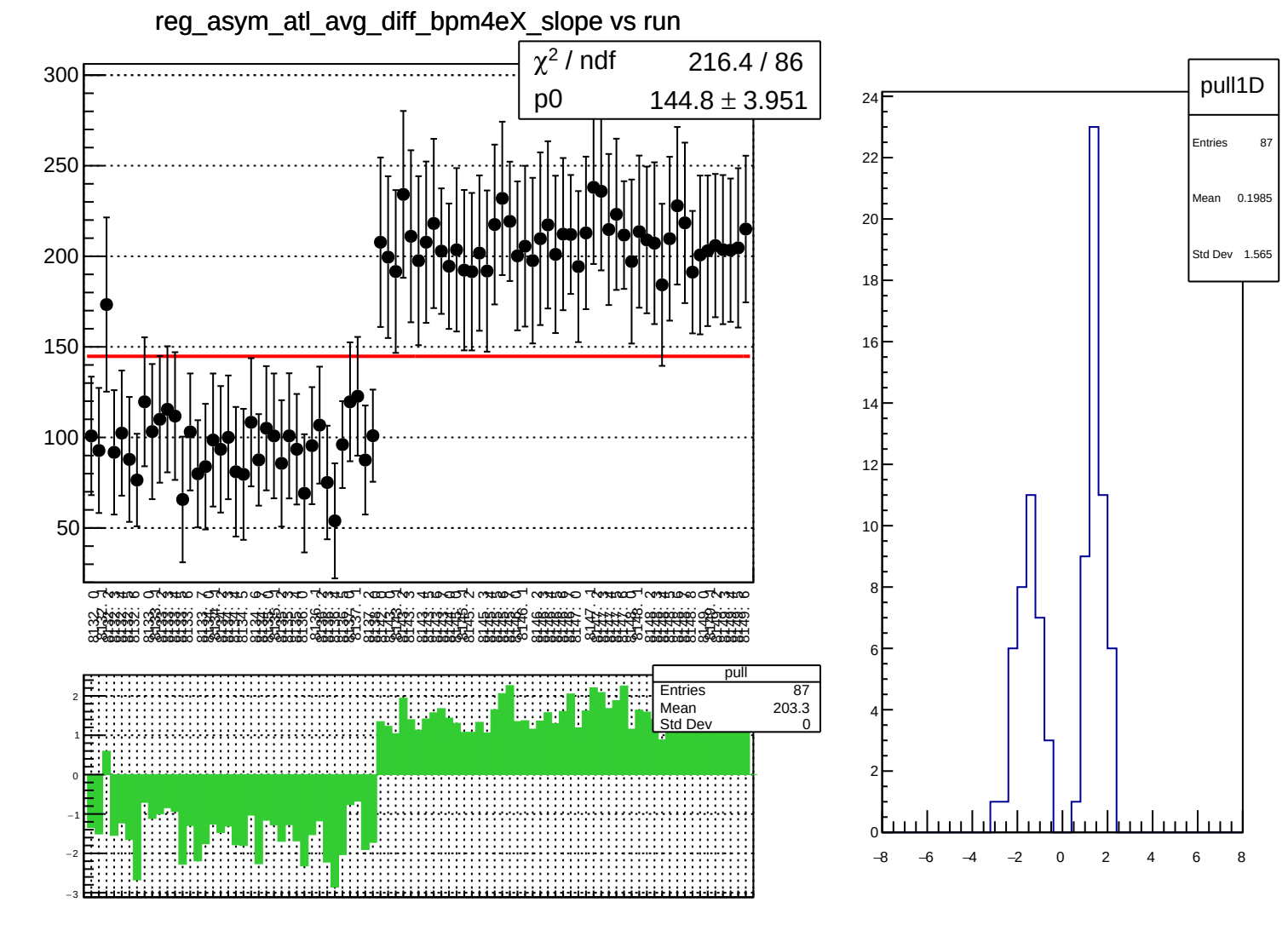

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 6.28 / 86
p0 −40.24 ± 22.82
600
400
200
0
−200
−400
pull
Entries 87
Mean 469.3
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 87
Mean −0.007617
Std Dev 0.2686
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

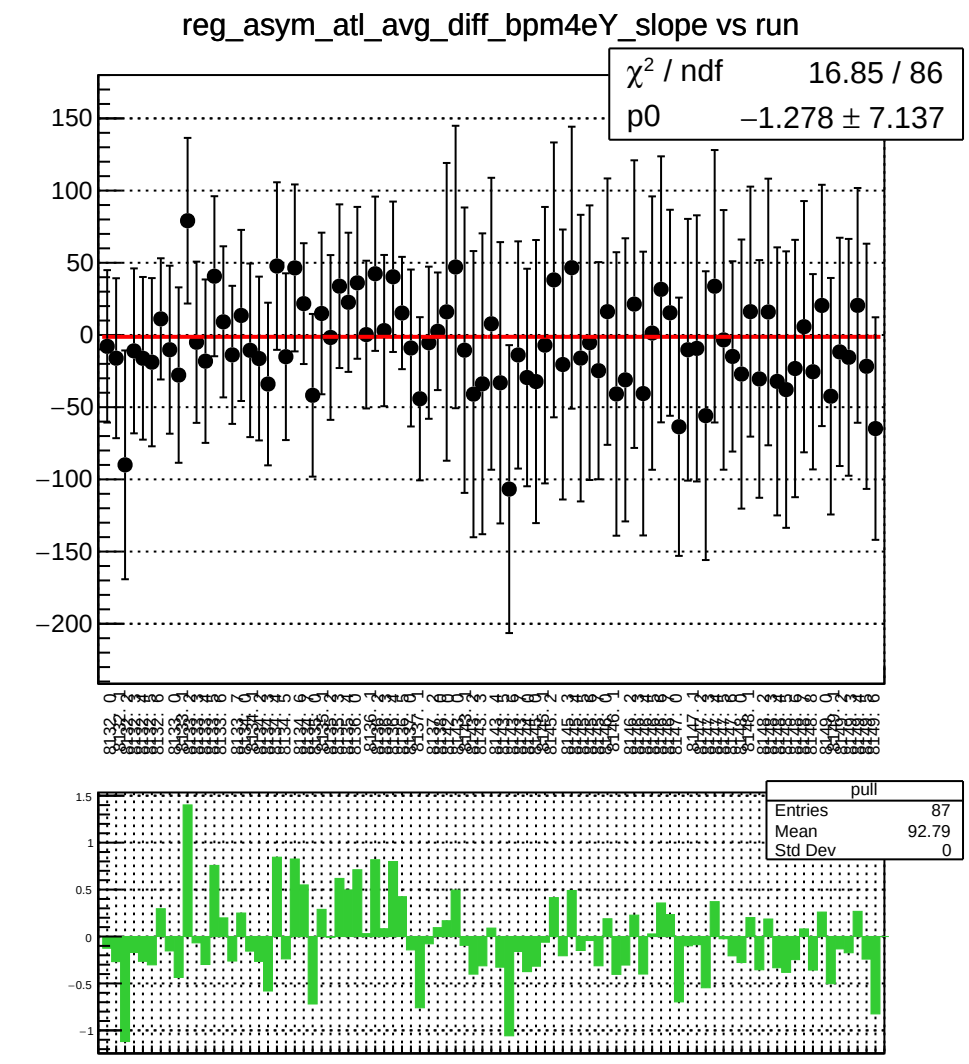

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 1766 / 86
p0 −278.9 ± 0.9105
pull
Entries 87
Mean 169.6
Std Dev 0
pull1D
Entries 87
Mean −0.7567
Std Dev 4.442

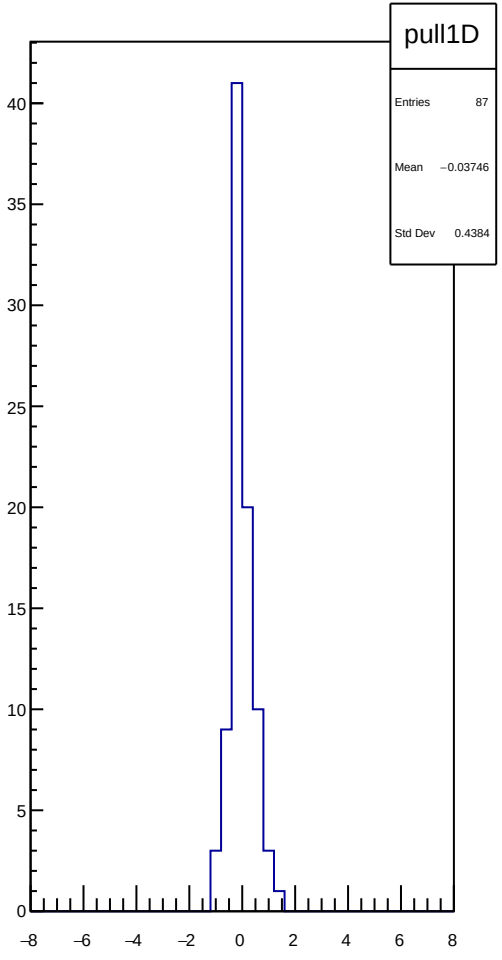

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 225.6 / 86
p0 −191.5 ± 4.047
pull
Entries 87
Mean 255
Std Dev 0
pull1D
Entries 87
Mean −0.1532
Std Dev 1.603

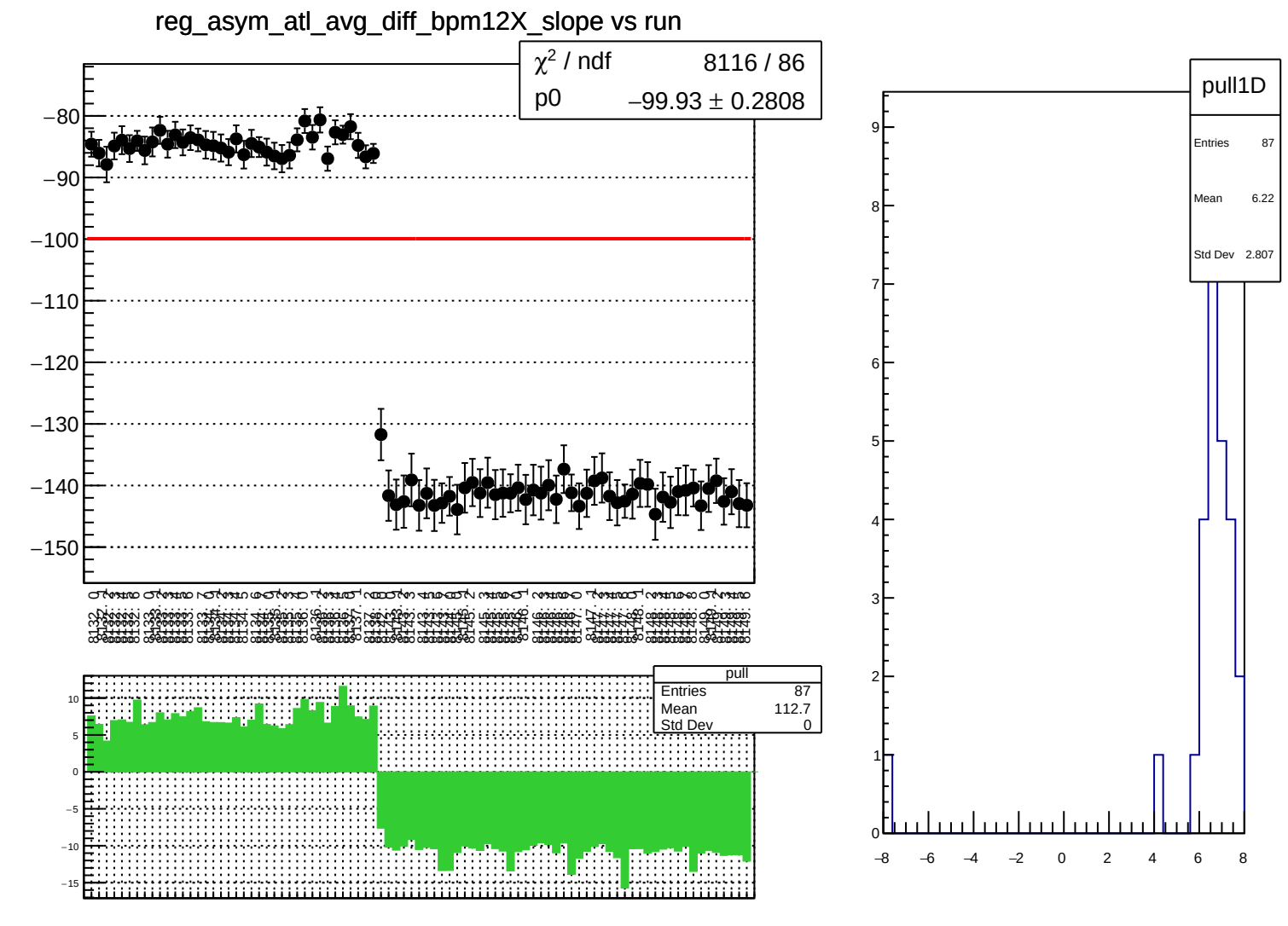

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 21.26 / 86
p0 41.9 ± 6.666
pull
Entries 87
Mean 109.9
Std Dev 0

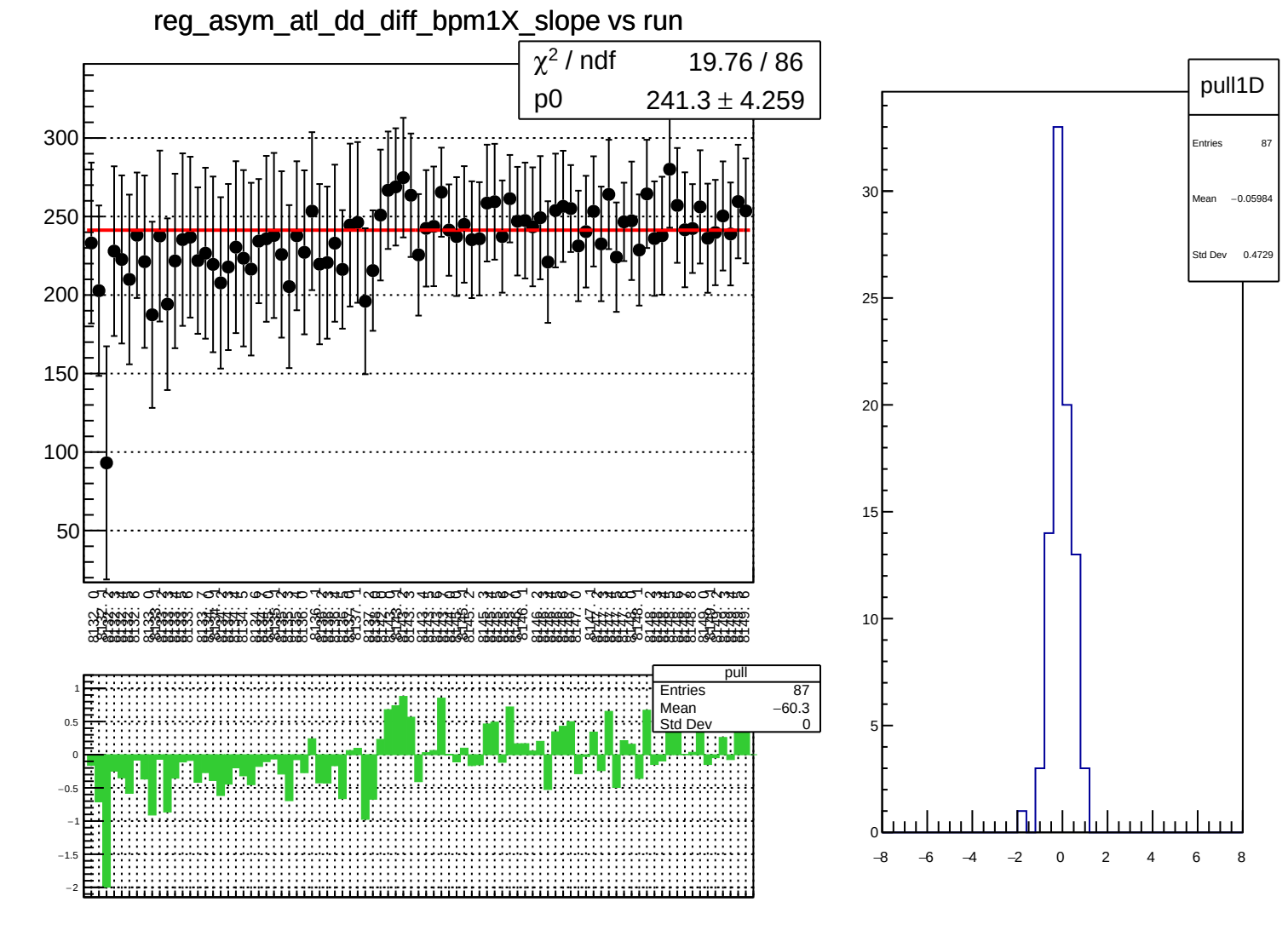

pull1D
Entries 87
Mean 0.07436
Std Dev 0.4887

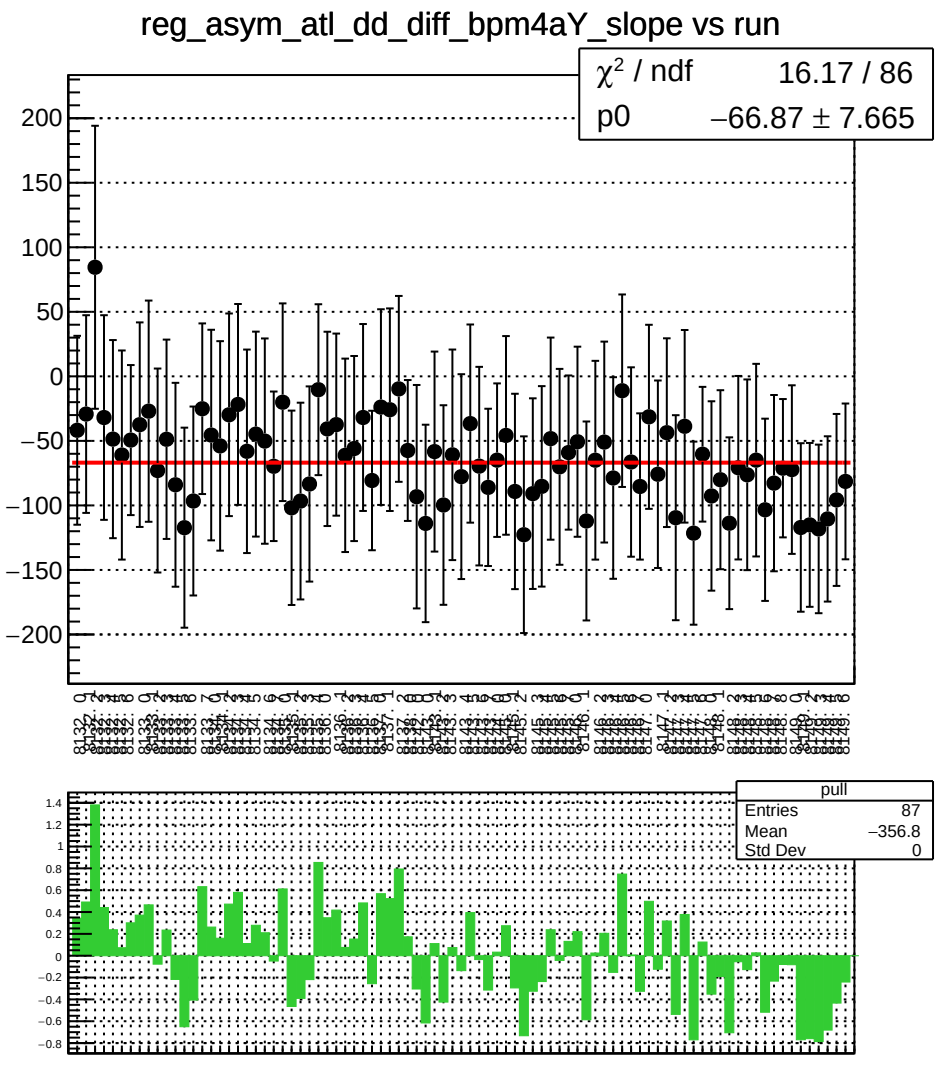

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 216.4 / 86
p0 144.8 ± 3.951
pull
Entries 87
Mean 203.3
Std Dev 0
pull1D
Entries 87
Mean 0.1985
Std Dev 1.565

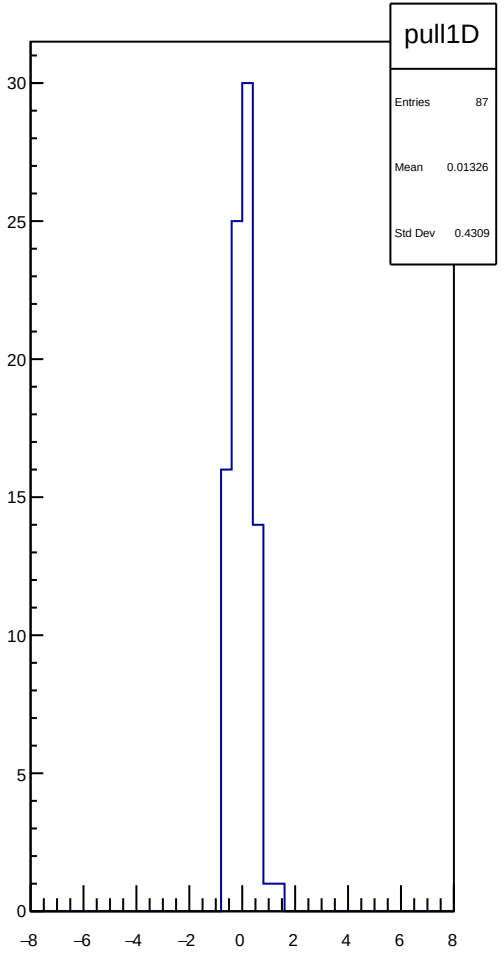

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 16.85 / 86
p0 −1.278 ± 7.137
pull
Entries 87
Mean 92.79
Std Dev 0

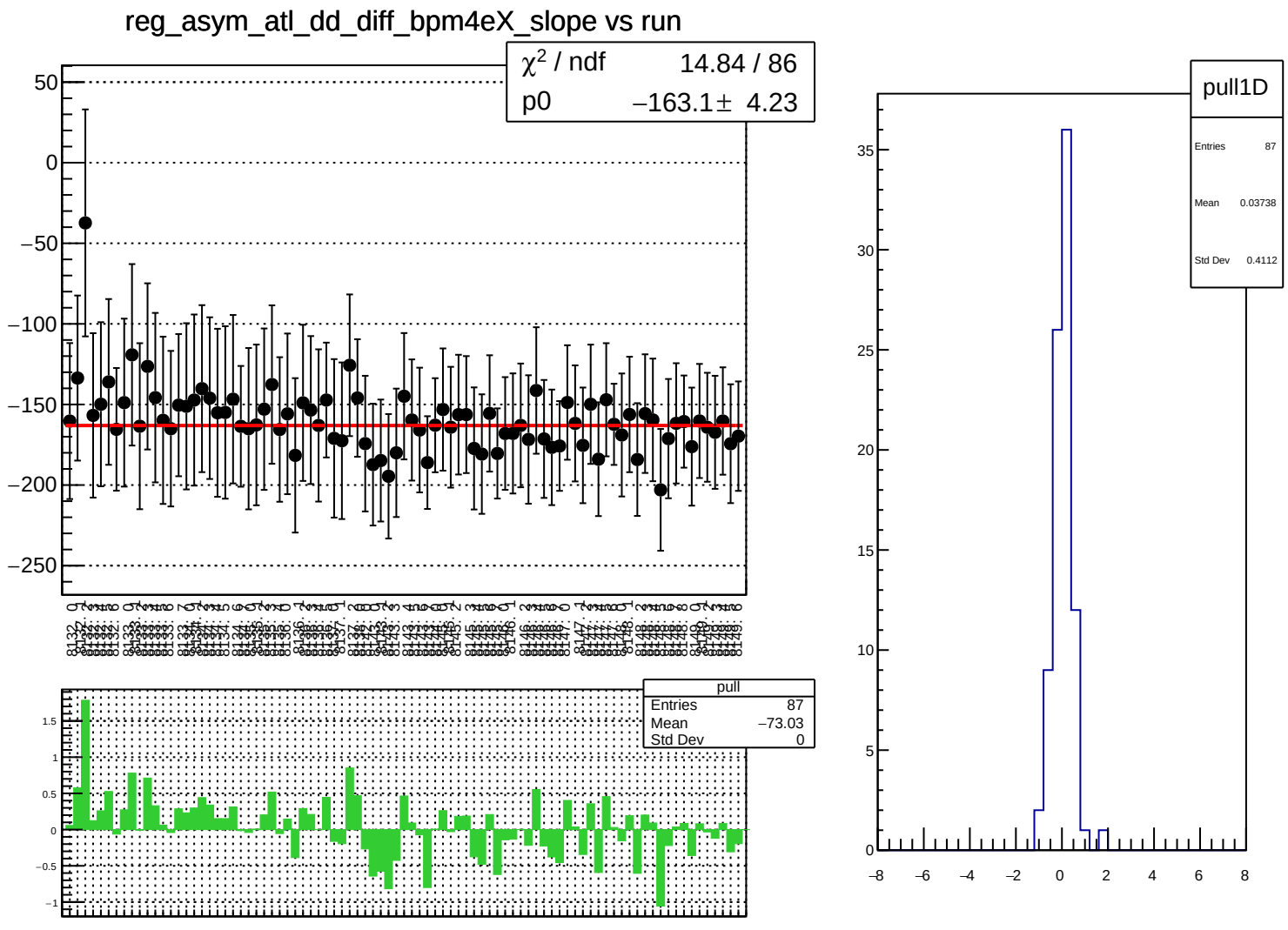

pull1D
Entries 87
Mean −0.03746
Std Dev 0.4384

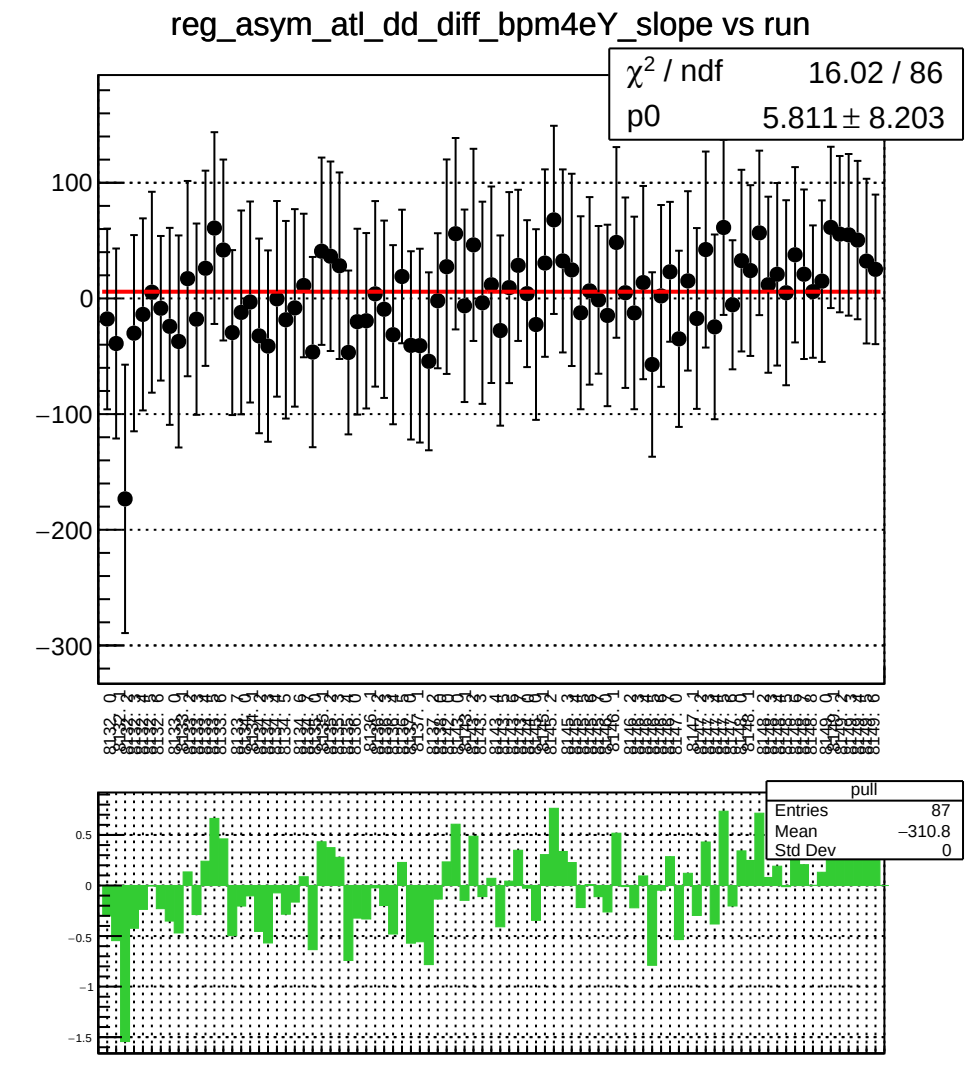

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 8116 / 86
p0 −99.93 ± 0.2808
pull
Entries 87
Mean 112.7
Std Dev 0
pull1D
Entries 87
Mean 6.22
Std Dev 2.807

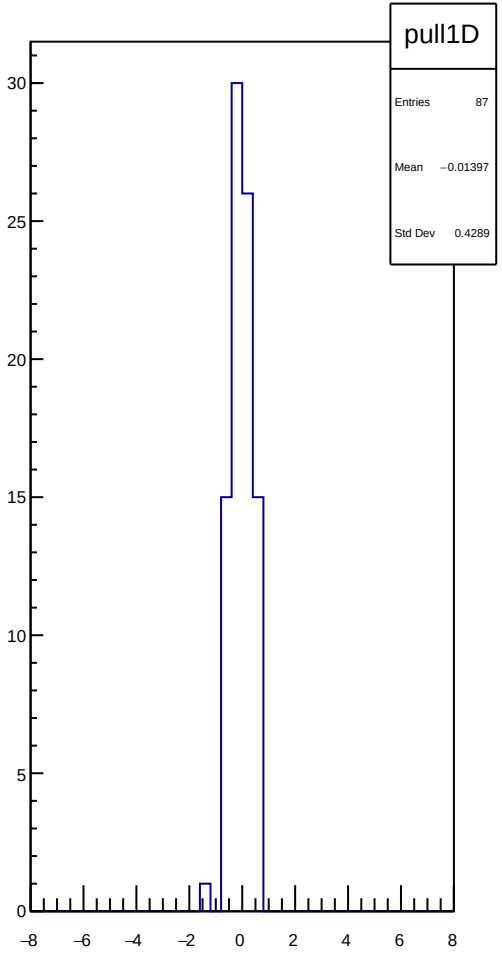

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 19.76 / 86
p0 241.3 ± 4.259
300
250
200
150
100
50
pull
Entries 87
Mean −60.3
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 87
Mean −0.05984
Std Dev 0.4729
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

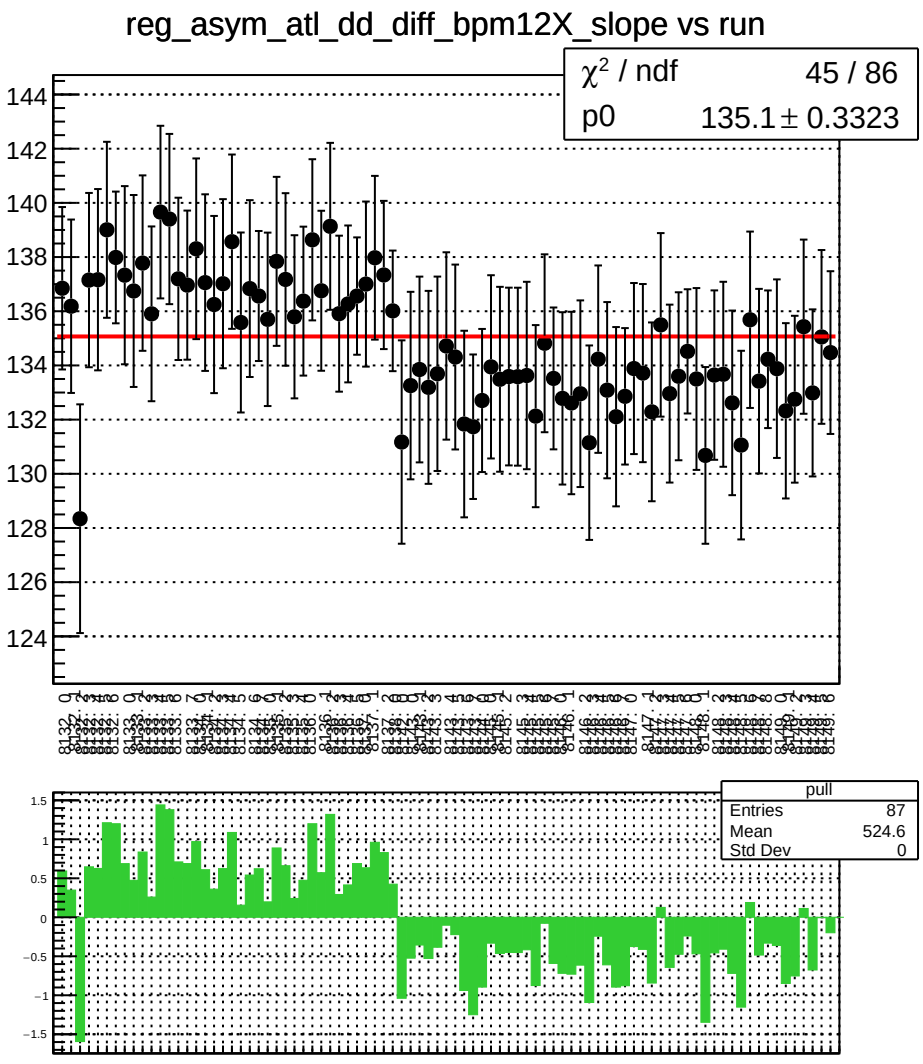

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 16.17 / 86
p0 −66.87 ± 7.665
pull
Entries 87
Mean −356.8
Std Dev 0

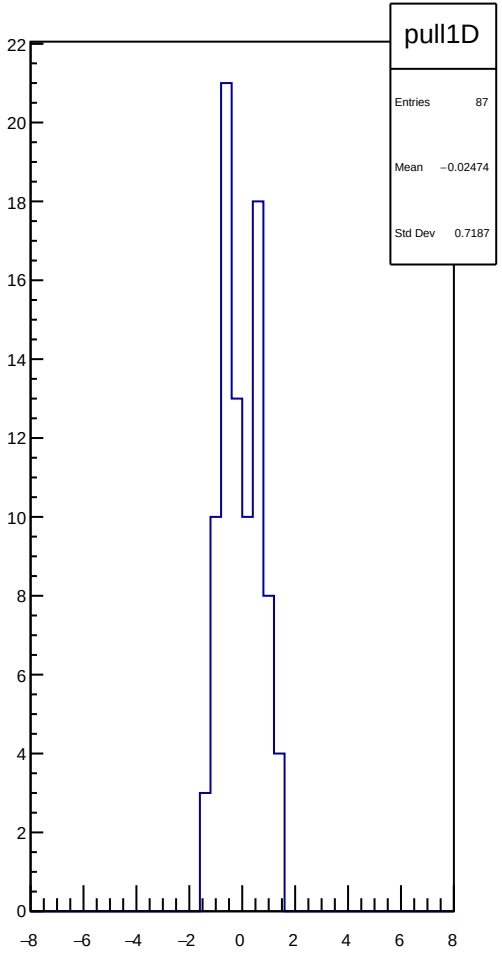

pull1D
Entries 87
Mean 0.01326
Std Dev 0.4309

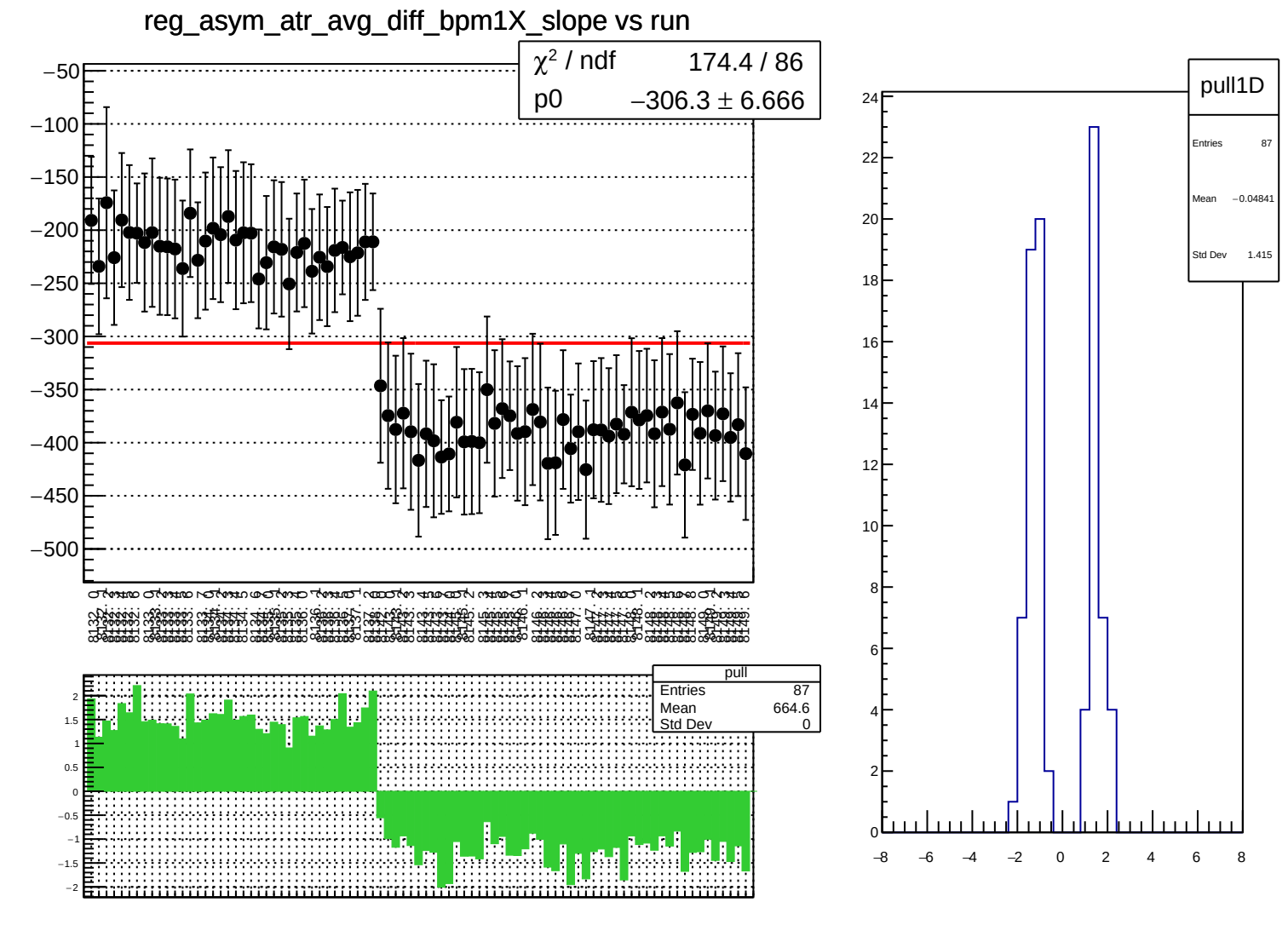

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 14.84 / 86
p0 −163.1± 4.23
pull
Entries 87
Mean −73.03
Std Dev 0
pull1D
Entries 87
Mean 0.03738
Std Dev 0.4112

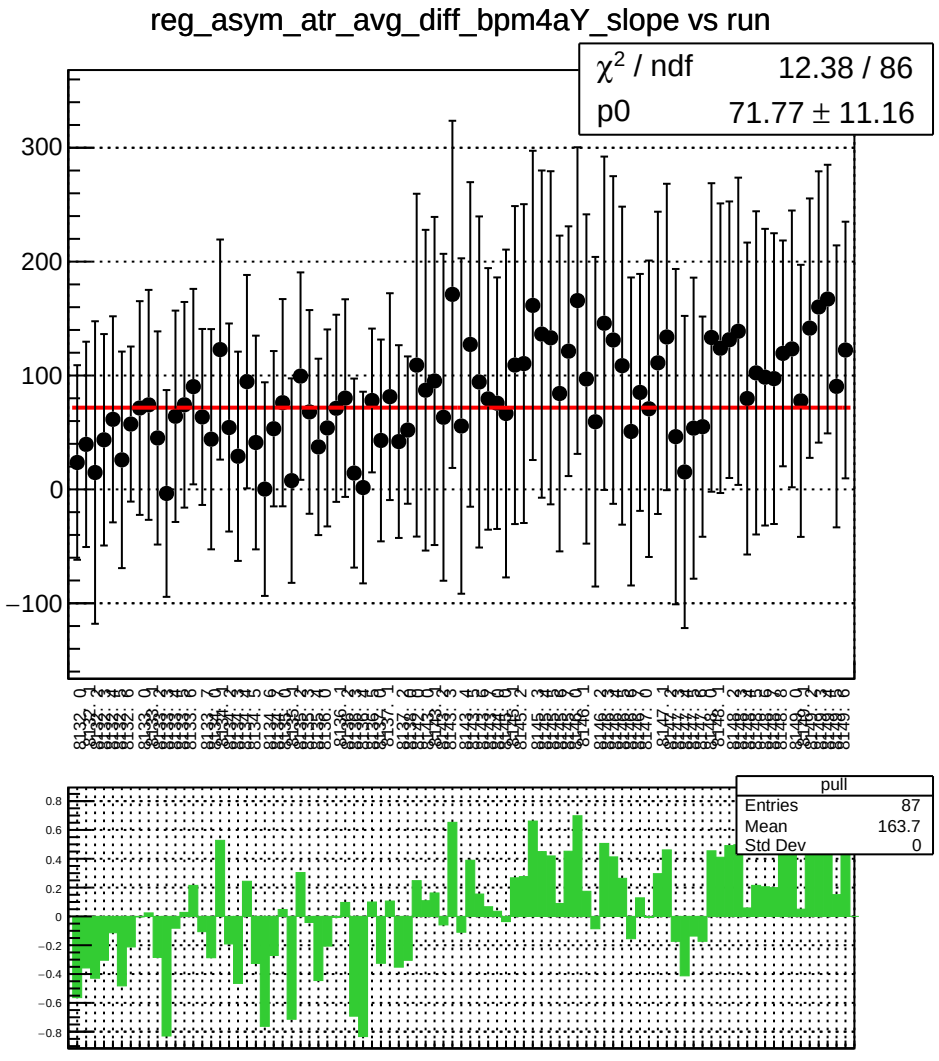

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 16.02 / 86
p0 5.811 ± 8.203
100
0
−100
−200
−300
pull
Entries 87
Mean −310.8
Std Dev 0
0.5
0
−0.5
−1
−1.5

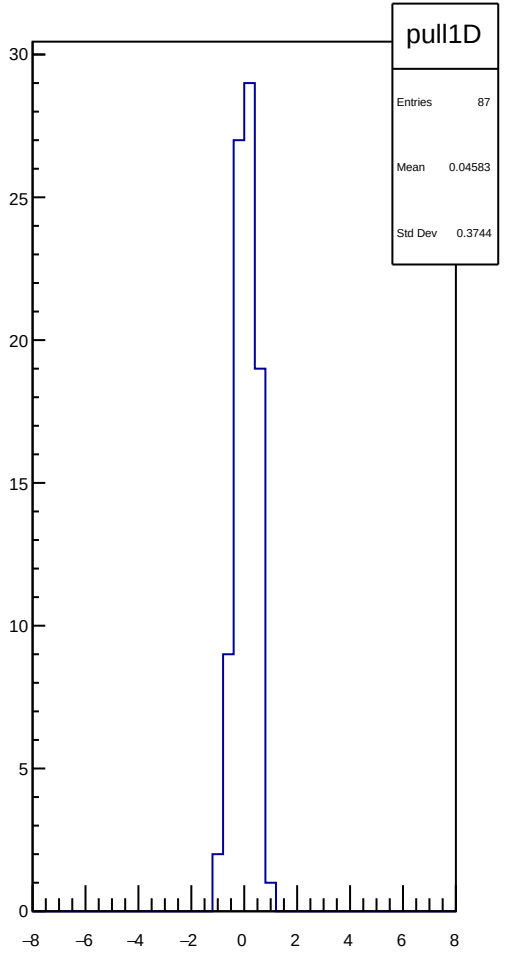

pull1D
Entries 87
Mean −0.01397
Std Dev 0.4289
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

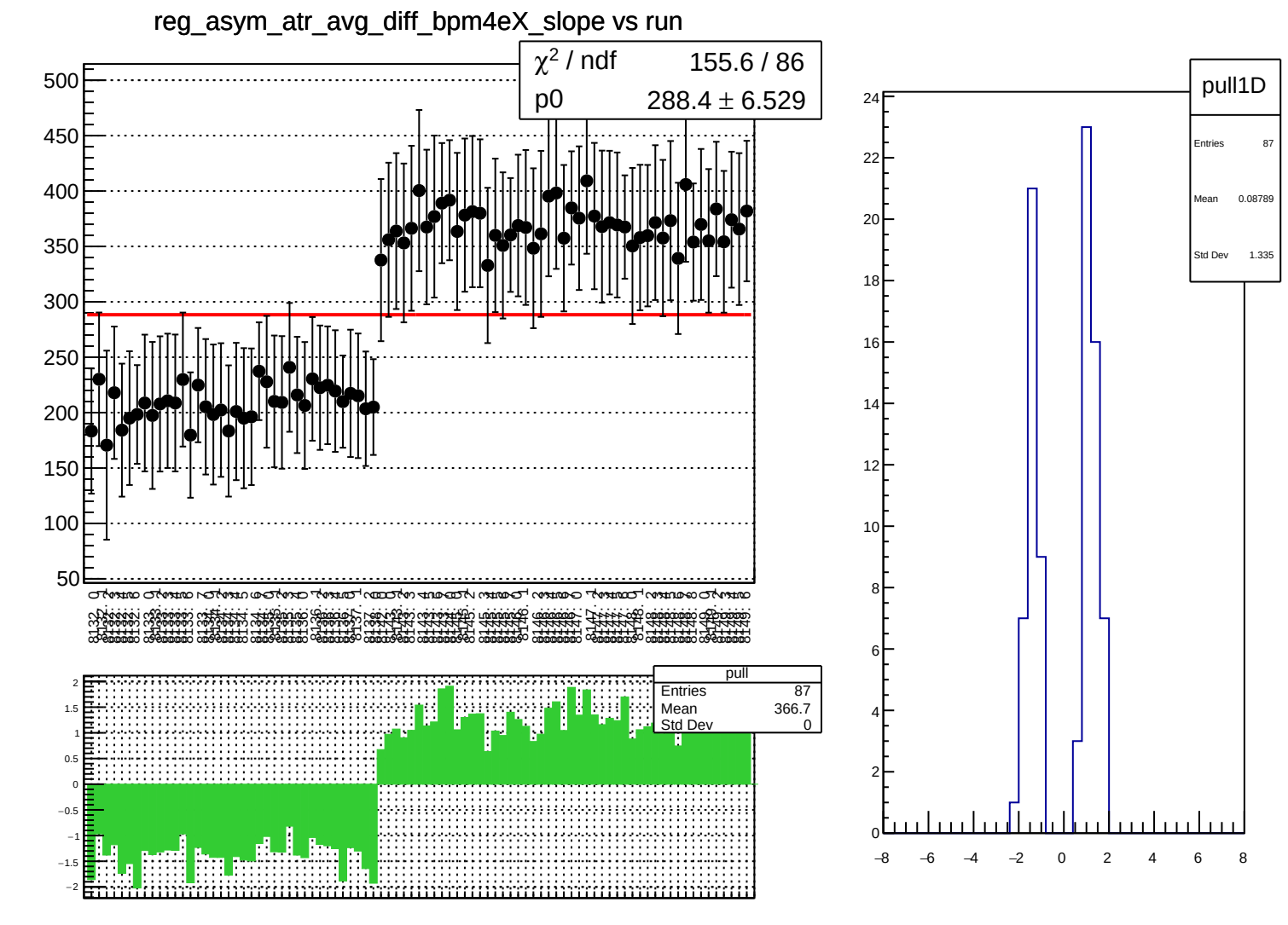

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 45 / 86
p0 135.1 ± 0.3323
pull
Entries 87
Mean 524.6
Std Dev 0

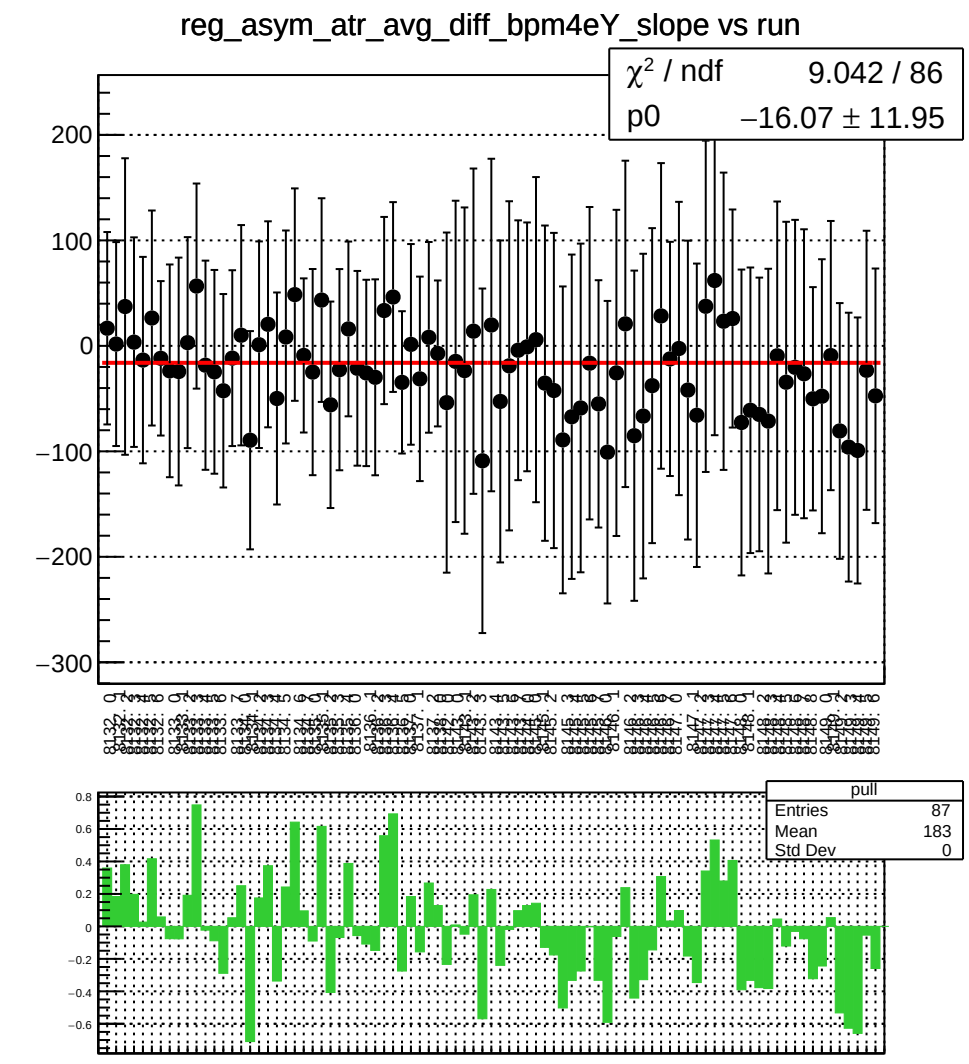

pull1D
Entries 87
Mean −0.02474
Std Dev 0.7187

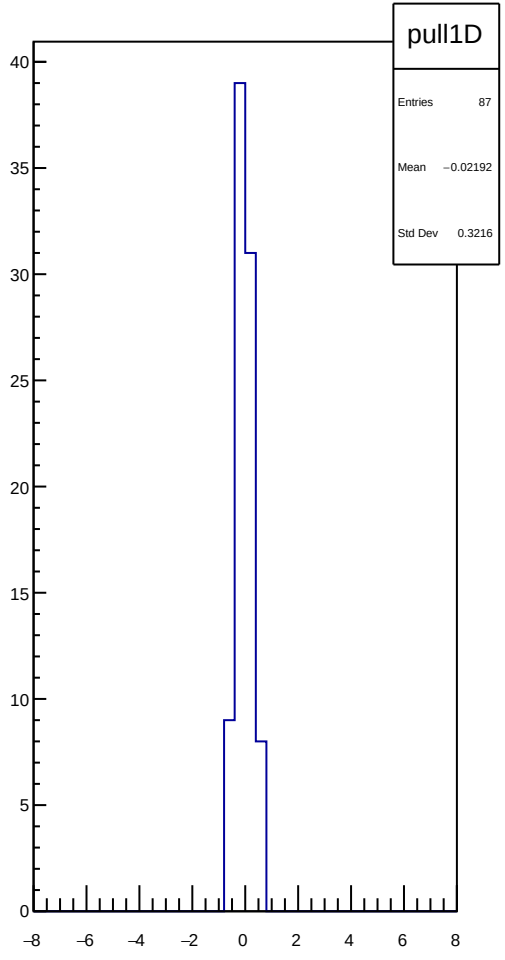

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 174.4 / 86
p0 −306.3 ± 6.666
pull
Entries 87
Mean 664.6
Std Dev 0
pull1D
Entries 87
Mean −0.04841
Std Dev 1.415

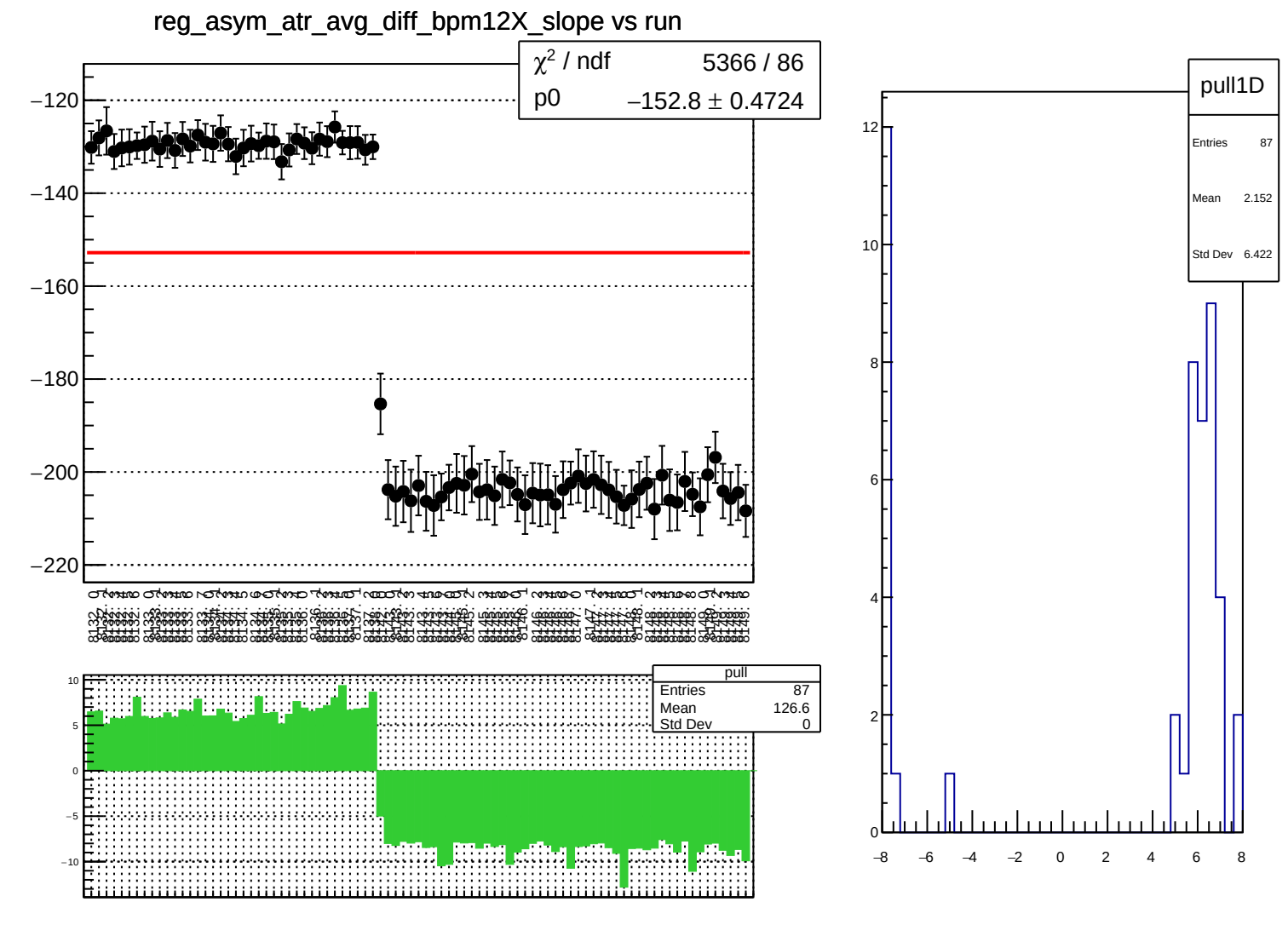

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.38 / 86
p0 71.77 ± 11.16
300
200
100
0
−100
pull
Entries 87
Mean 163.7
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

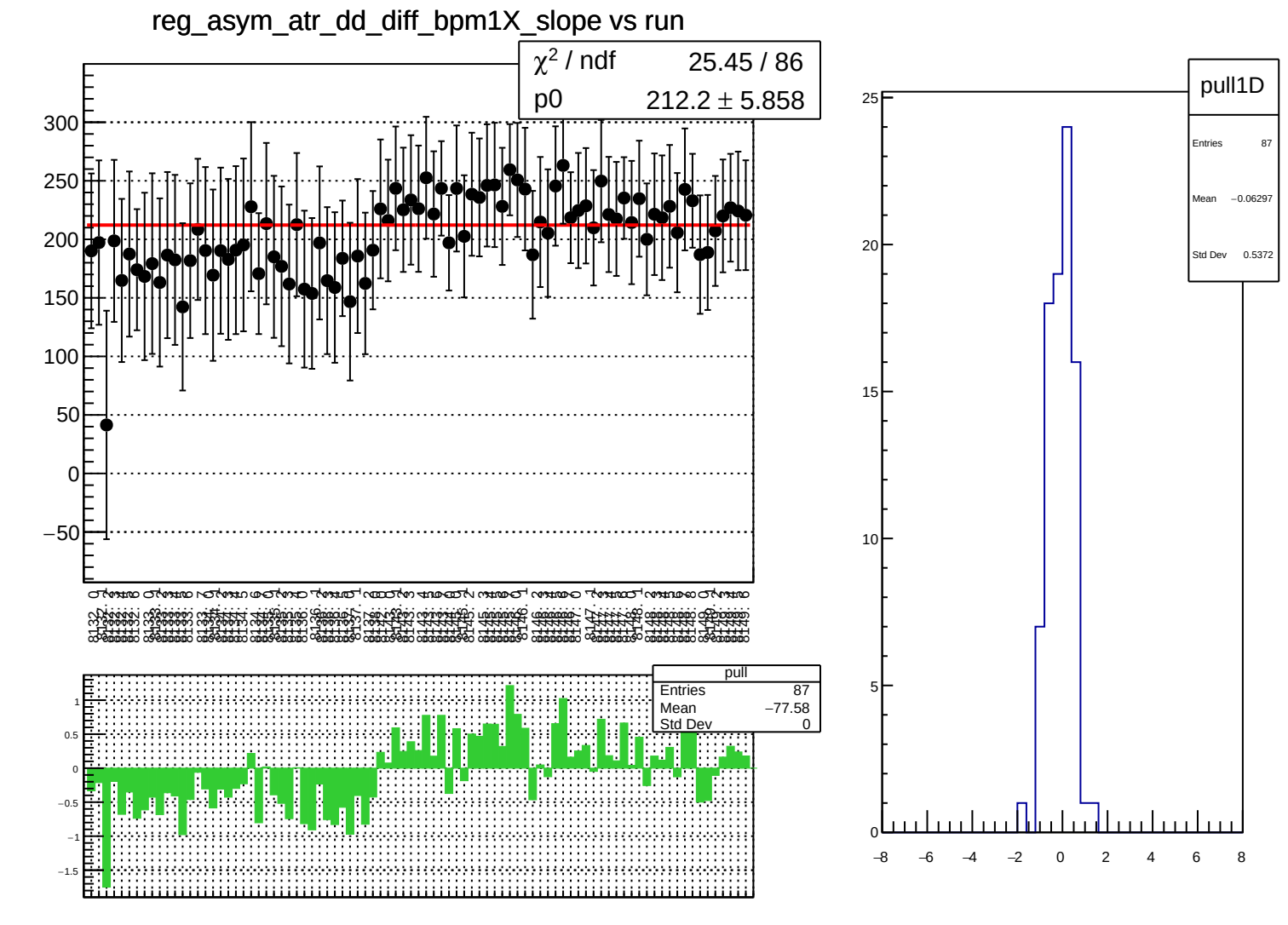

pull1D
Entries 87
Mean 0.04583
Std Dev 0.3744
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

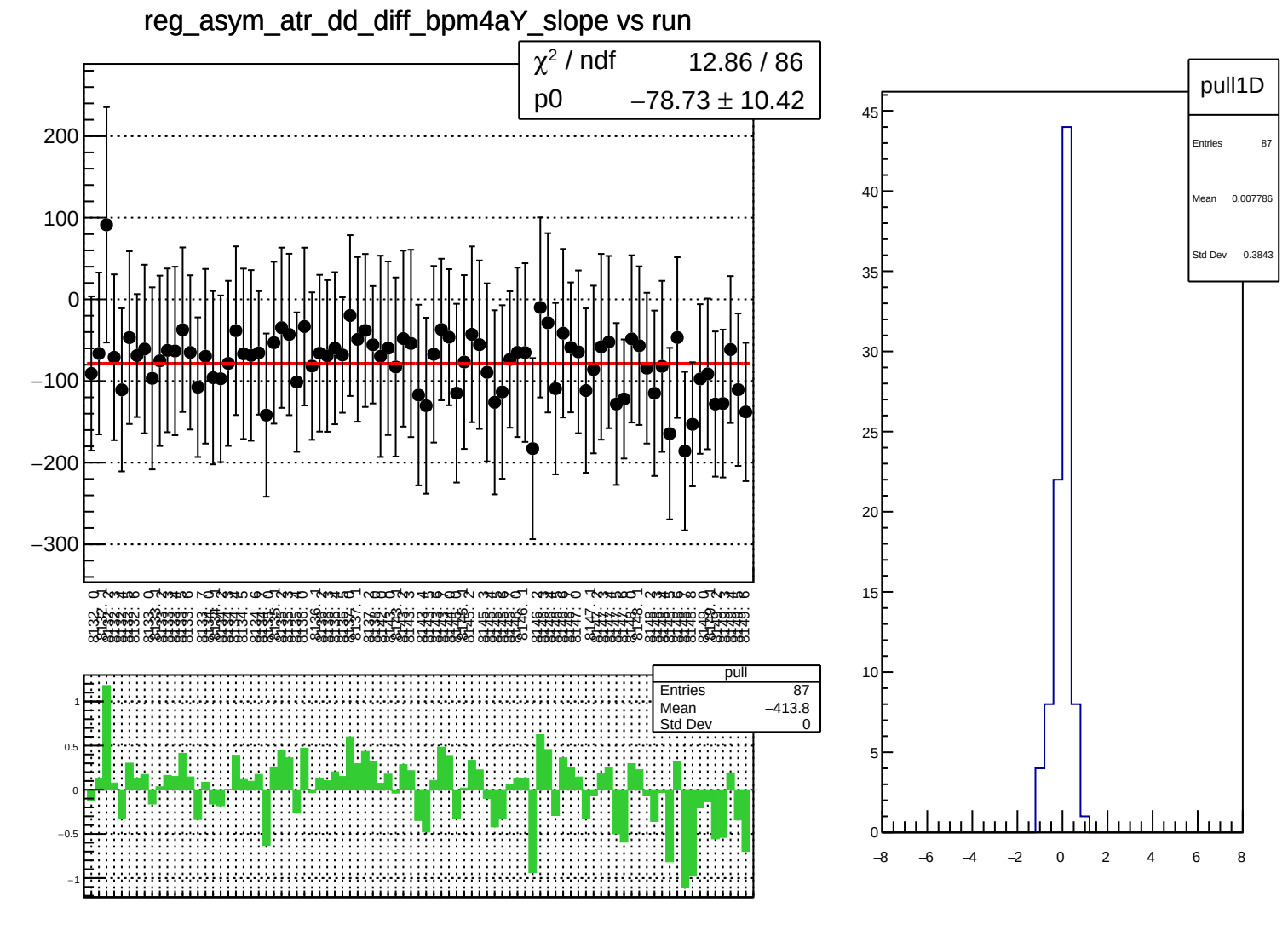

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 155.6 / 86
p0 288.4 ± 6.529
pull
Entries 87
Mean 366.7
Std Dev 0
pull1D
Entries 87
Mean 0.08789
Std Dev 1.335

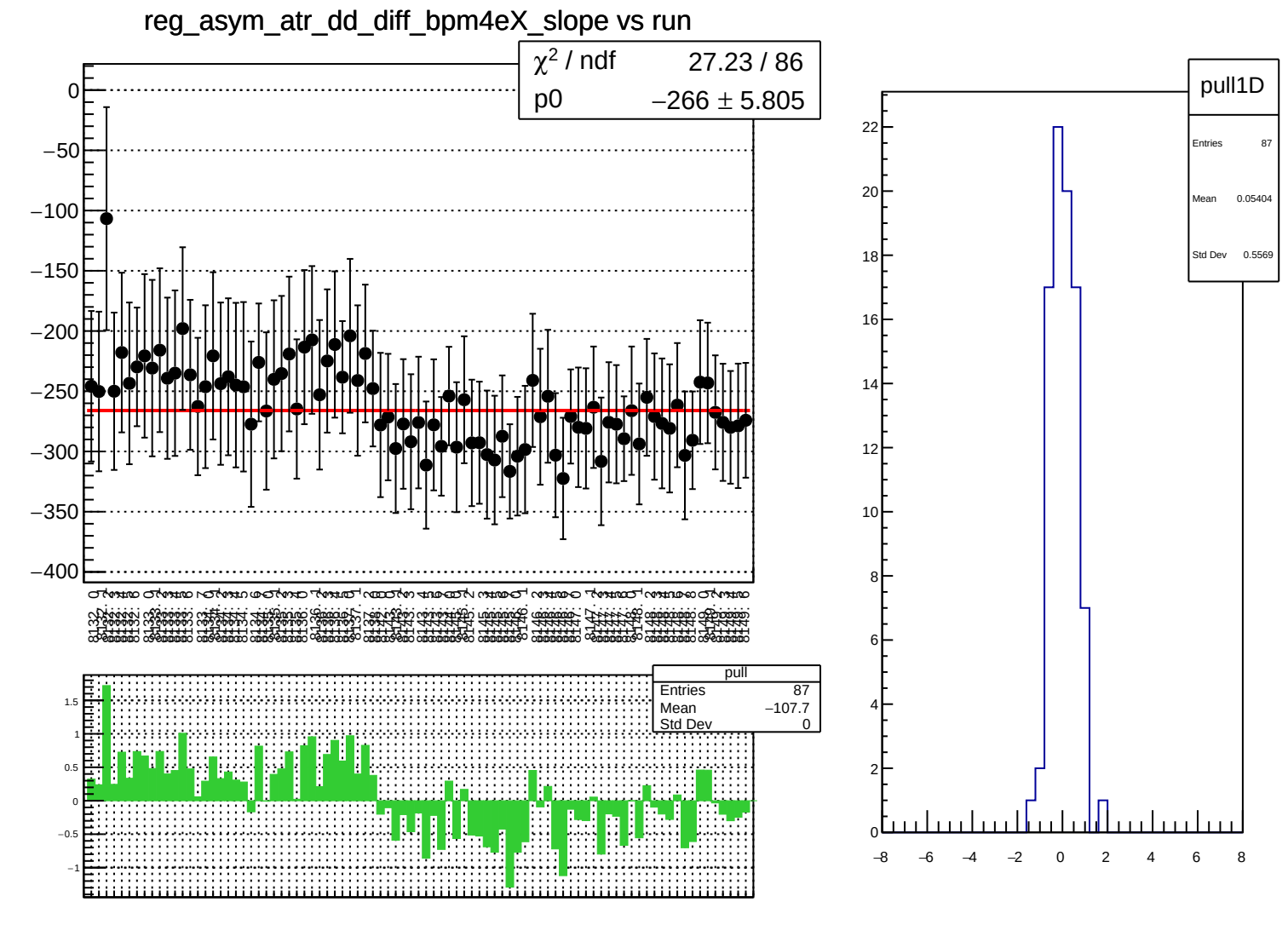

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.042 / 86
p0 −16.07 ± 11.95
200
100
0
−100
−200
−300
pull
Entries 87
Mean 183
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

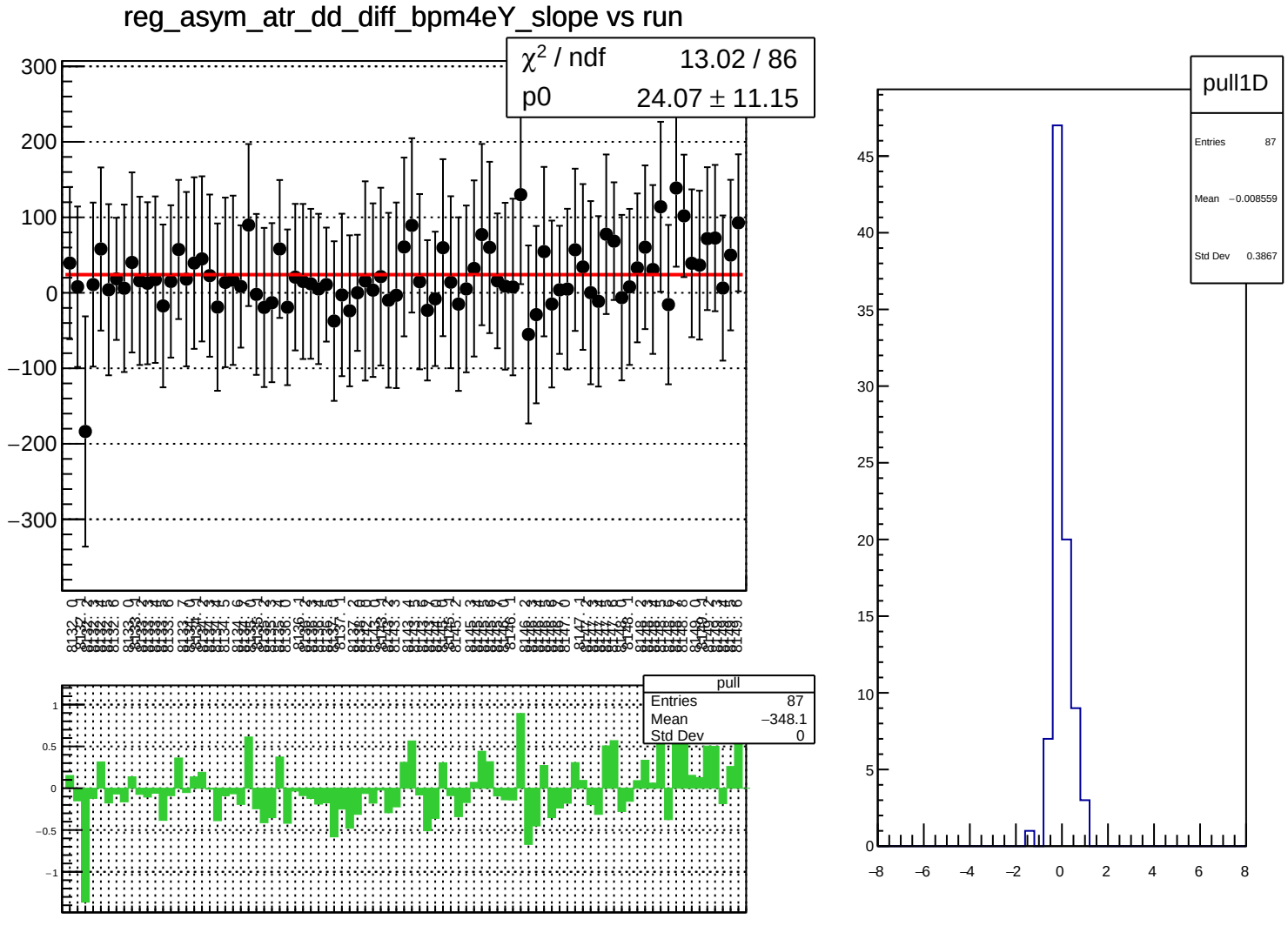

pull1D
Entries 87
Mean −0.02192
Std Dev 0.3216
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

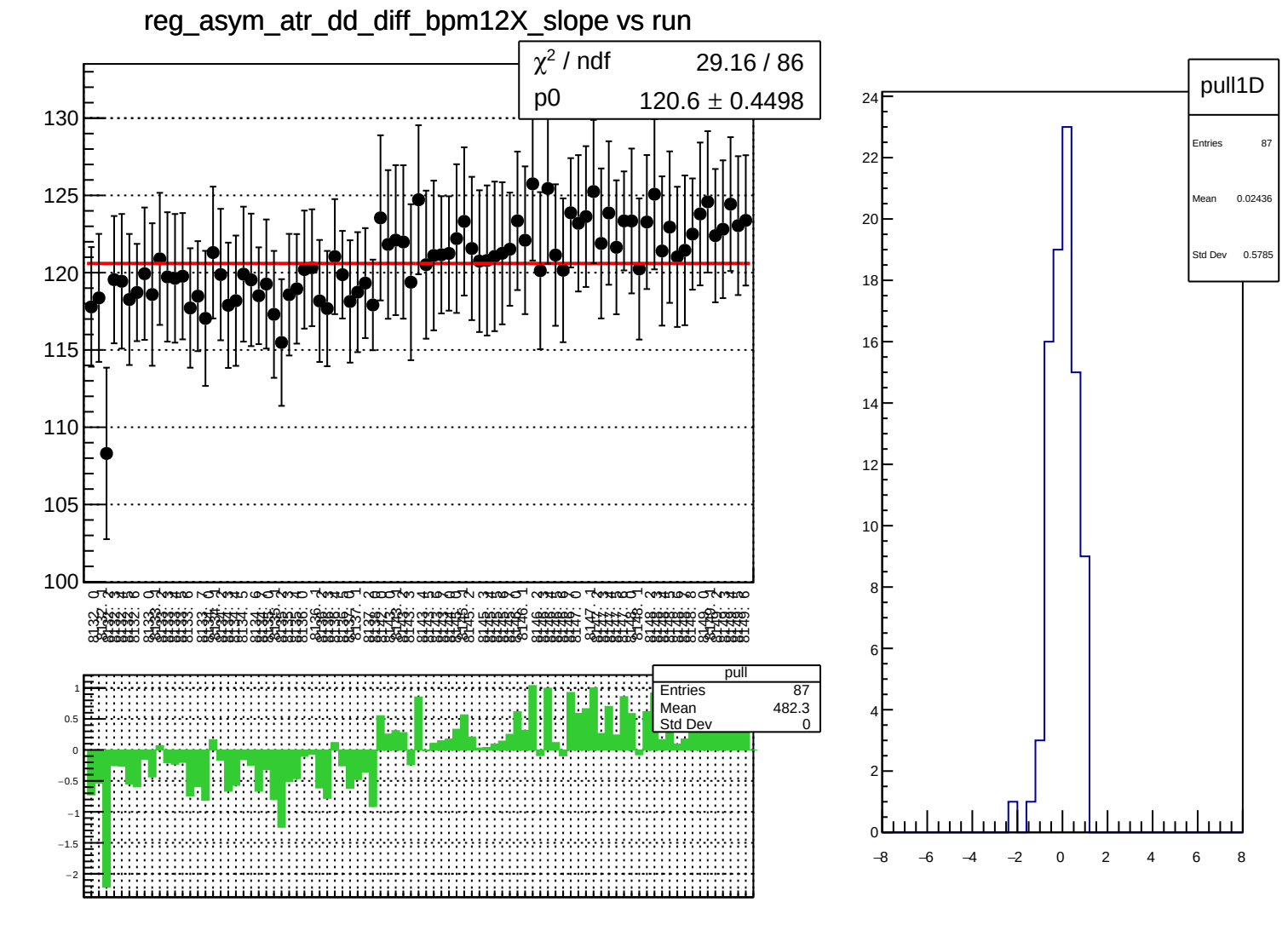

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 5366 / 86
p0 −152.8 ± 0.4724
−120
−140
−160
−180
−200
−220
pull
Entries 87
Mean 126.6
Std Dev 0
10
5
0
−5
−10
pull1D
Entries 87
Mean 2.152
Std Dev 6.422
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

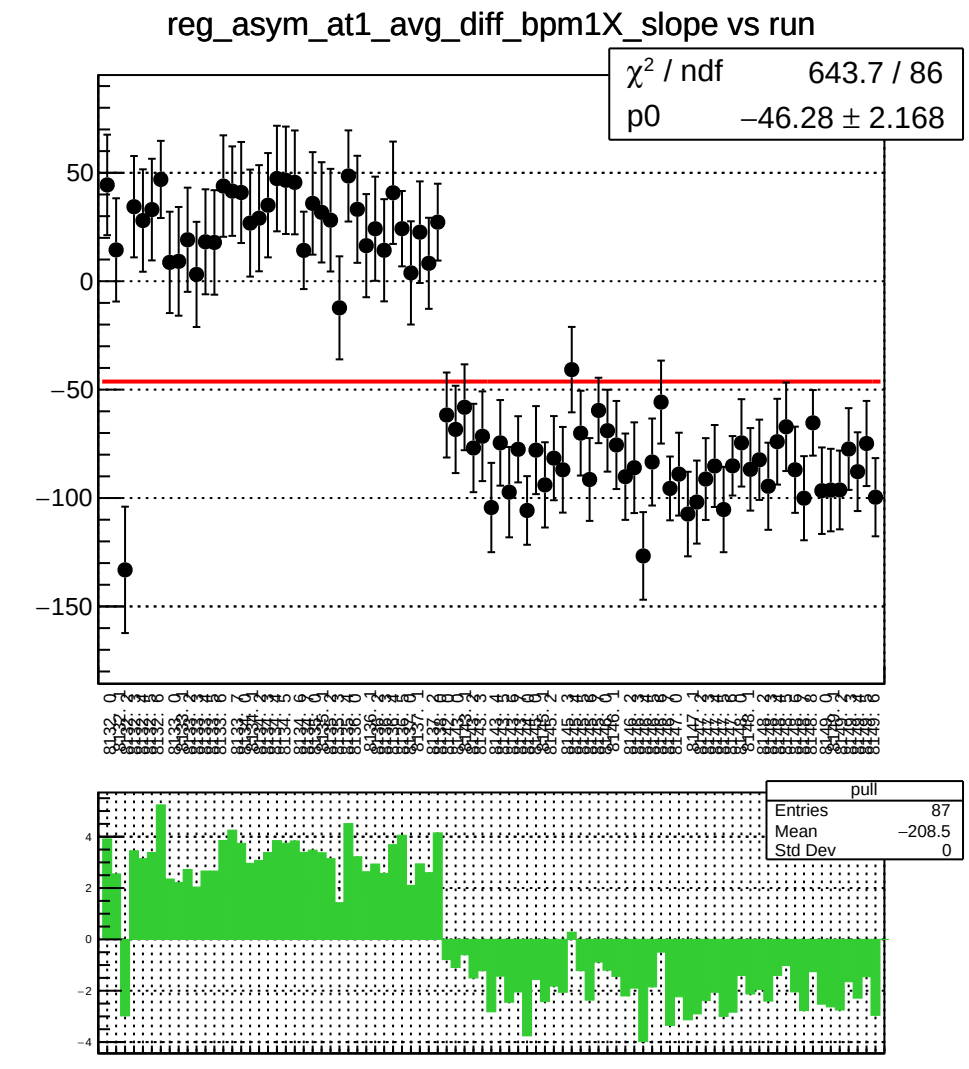

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 25.45 / 86
p0 212.2 ± 5.858
pull
Entries 87
Mean −77.58
Std Dev 0
pull1D
Entries 87
Mean −0.06297
Std Dev 0.5372

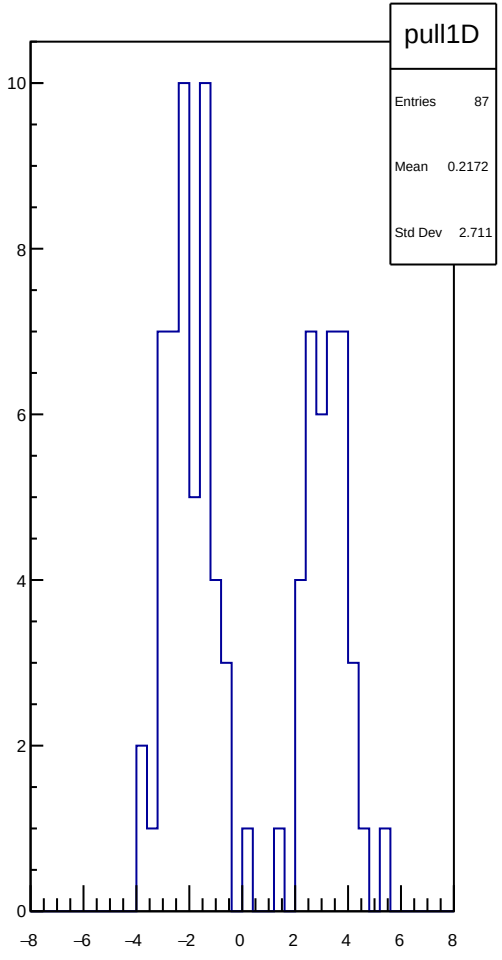

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 12.86 / 86
p0 −78.73 ± 10.42
200
100
0
−100
−200
−300
pull
Entries 87
Mean −413.8
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 87
Mean 0.007786
Std Dev 0.3843
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

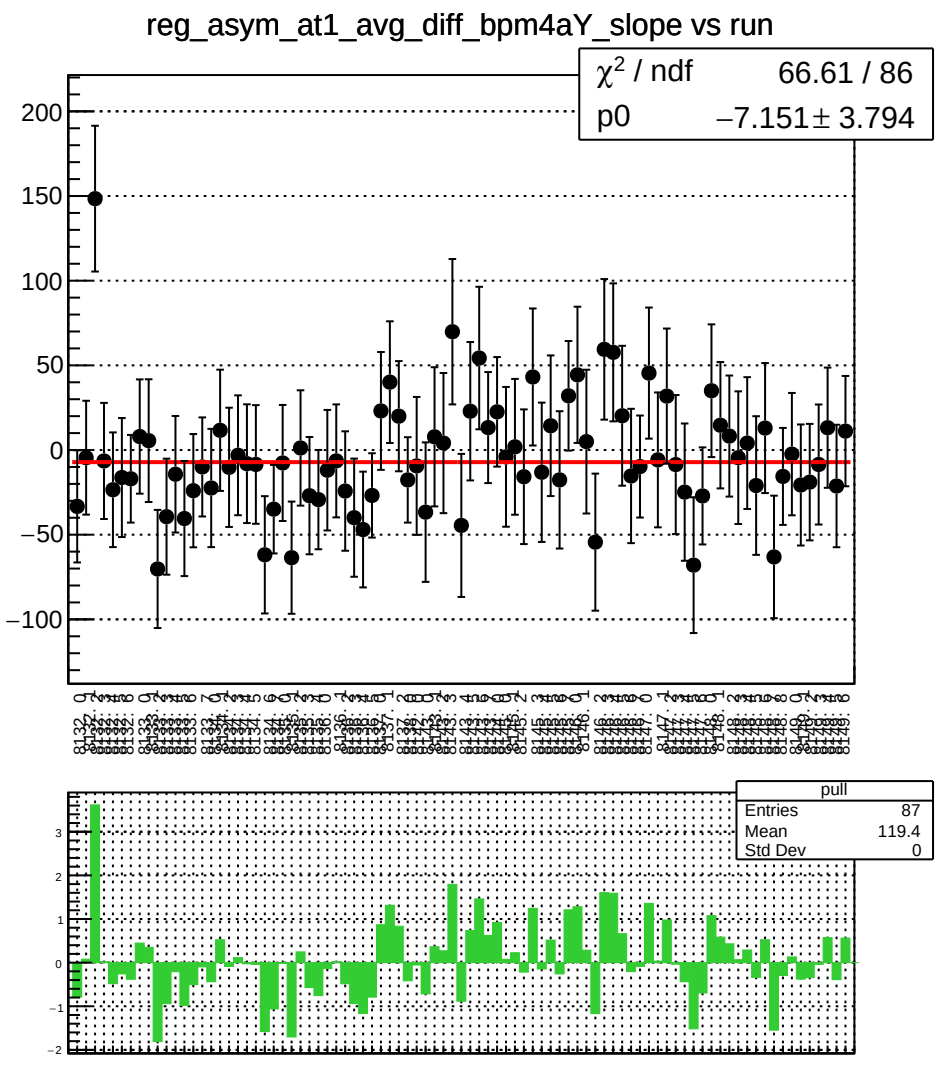

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 27.23 / 86
p0 −266 ± 5.805
pull
Entries 87
Mean −107.7
Std Dev 0
pull1D
Entries 87
Mean 0.05404
Std Dev 0.5569

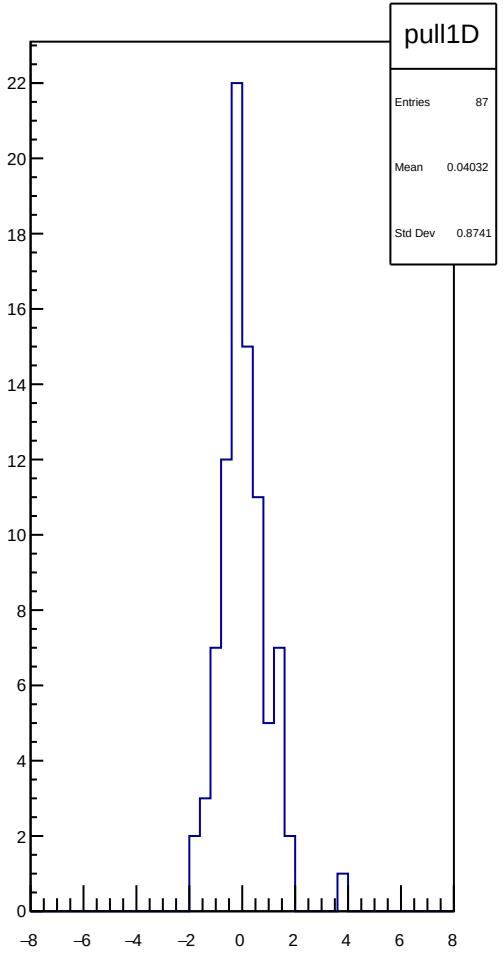

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 13.02 / 86
p0 24.07 ± 11.15
pull
Entries 87
Mean −348.1
Std Dev 0
pull1D
Entries 87
Mean −0.008559
Std Dev 0.3867

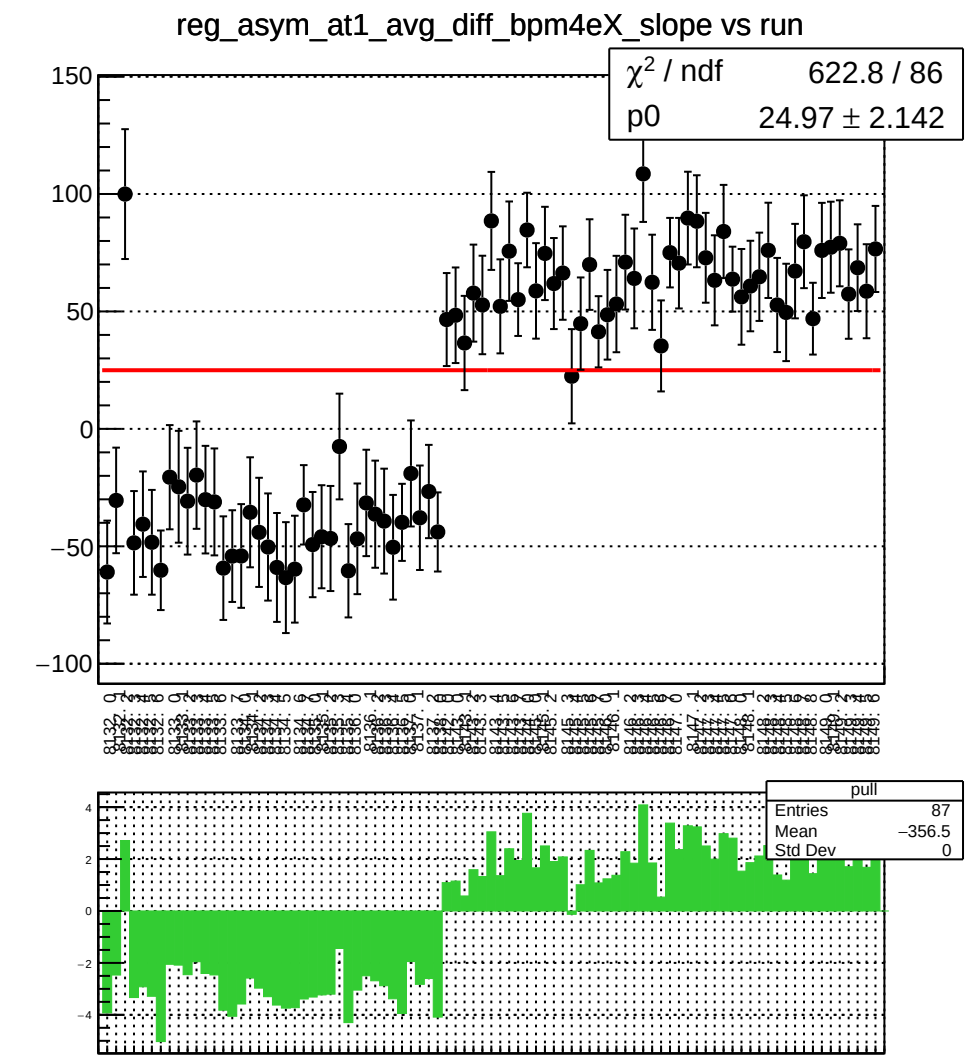

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 29.16 / 86
p0 120.6 ± 0.4498
pull
Entries 87
Mean 482.3
Std Dev 0
pull1D
Entries 87
Mean 0.02436
Std Dev 0.5785

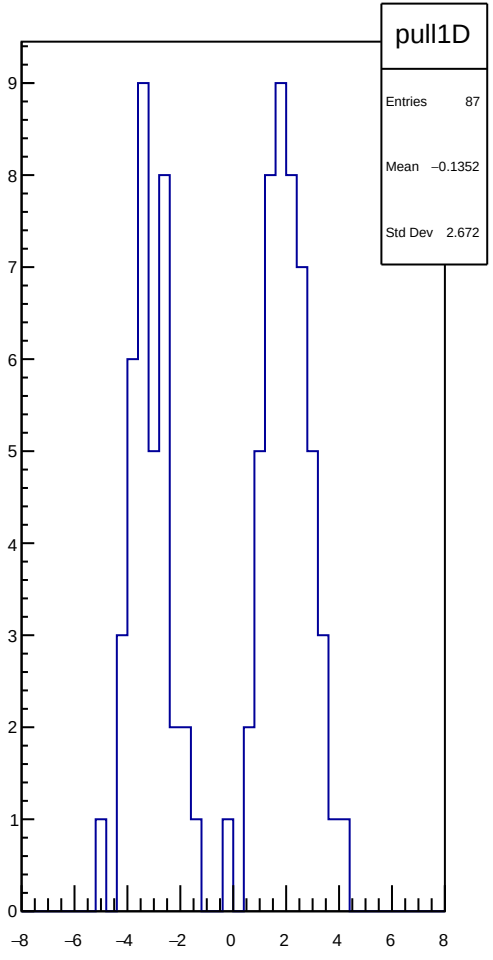

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 643.7 / 86
p0 −46.28 ± 2.168
50
0
−50
−100
−150
pull
Entries 87
Mean −208.5
Std Dev 0
4
2
0
−2
−4

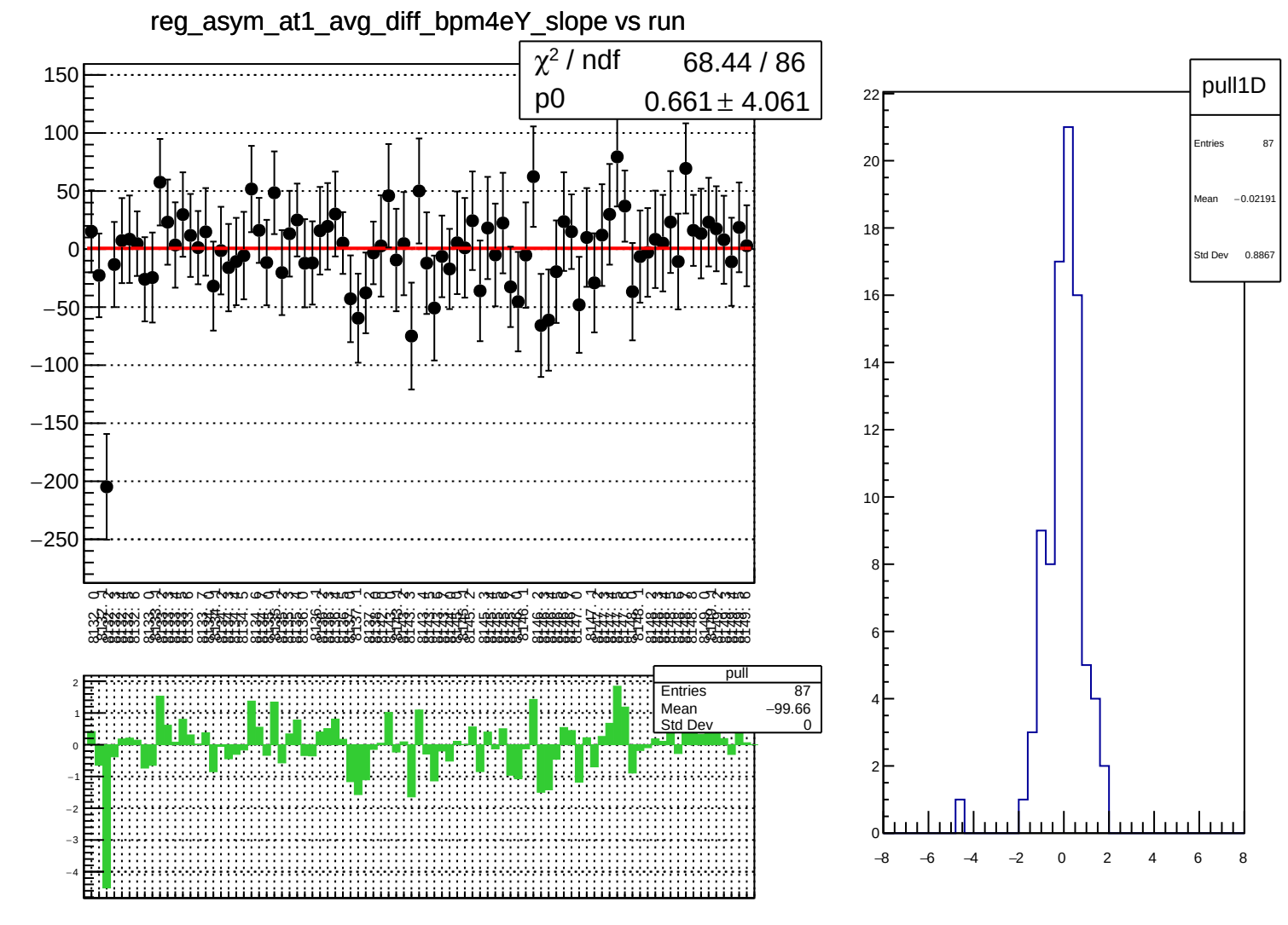

pull1D
Entries 87
Mean 0.2172
Std Dev 2.711
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

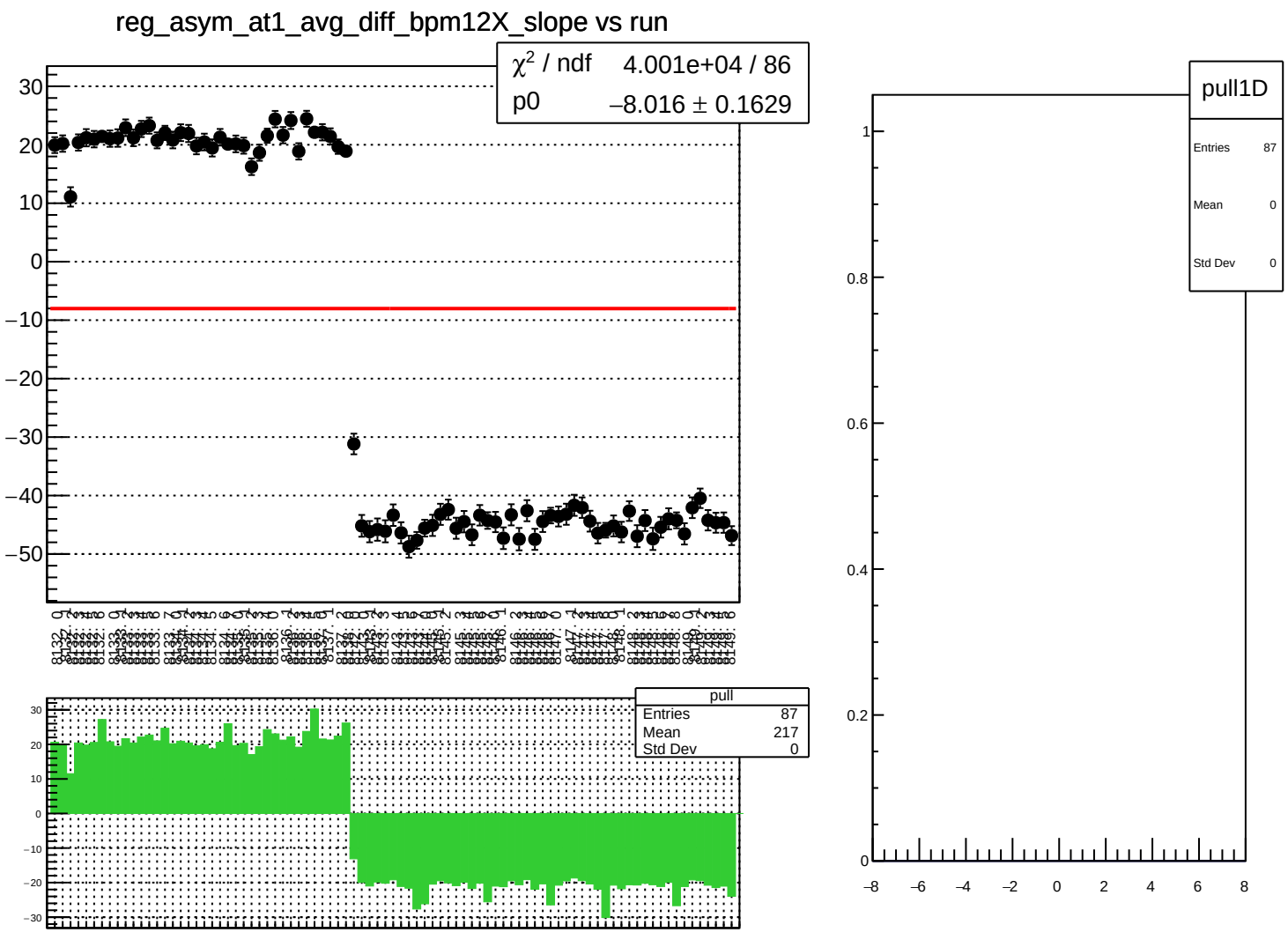

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 66.61 / 86
p0 −7.151 ± 3.794
pull
Entries 87
Mean 119.4
Std Dev 0

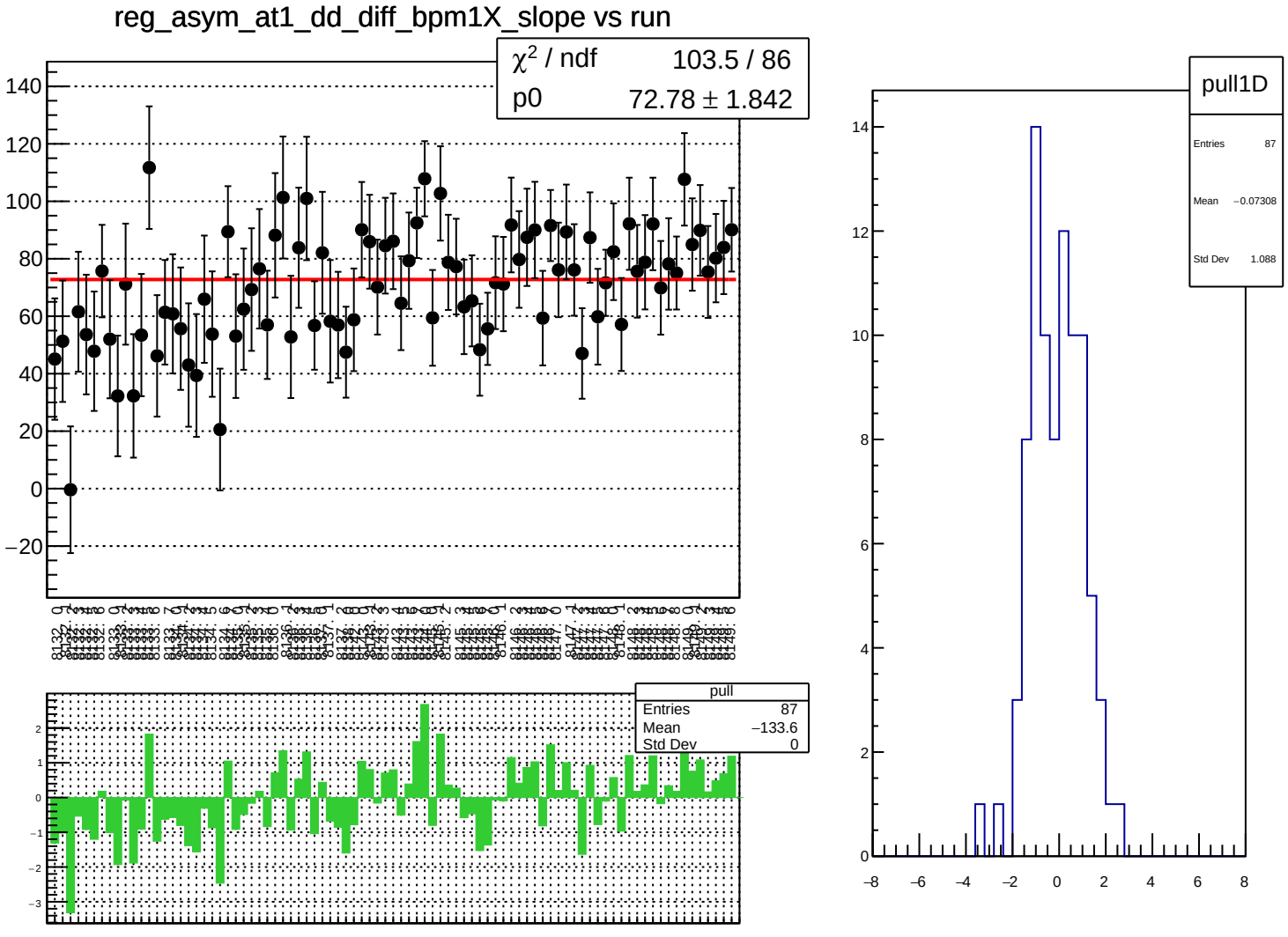

pull1D
Entries 87
Mean 0.04032
Std Dev 0.8741

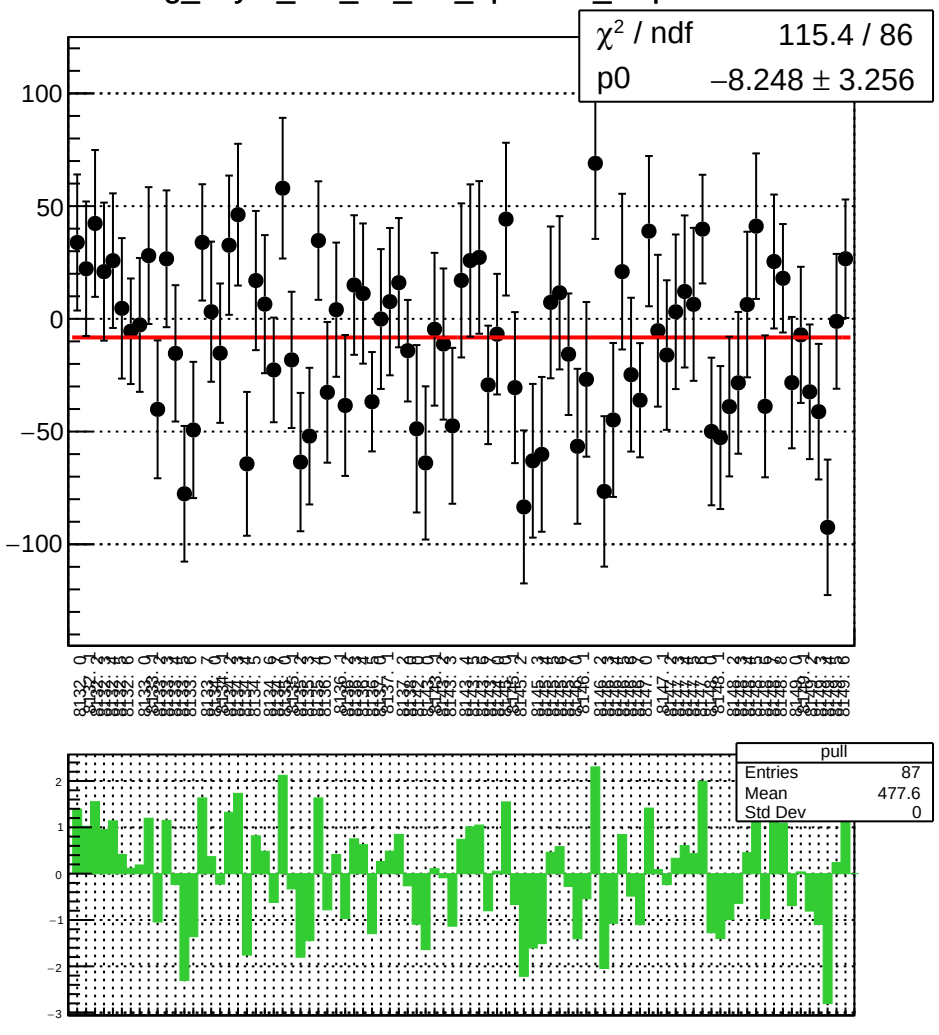

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 622.8 / 86
p0 24.97 ± 2.142
150
100
50
0
−50
−100
pull
Entries 87
Mean −356.5
Std Dev 0
4
2
0
−2
−4

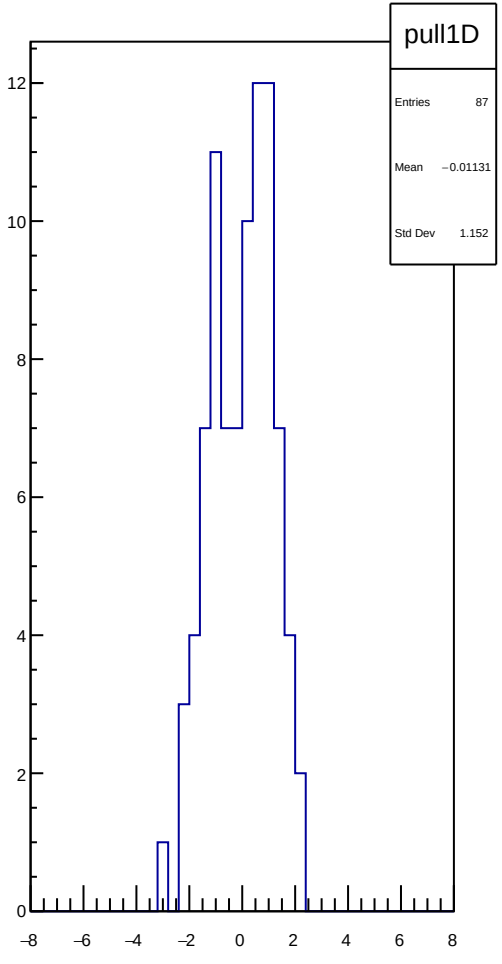

pull1D
Entries 87
Mean −0.1352
Std Dev 2.672
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

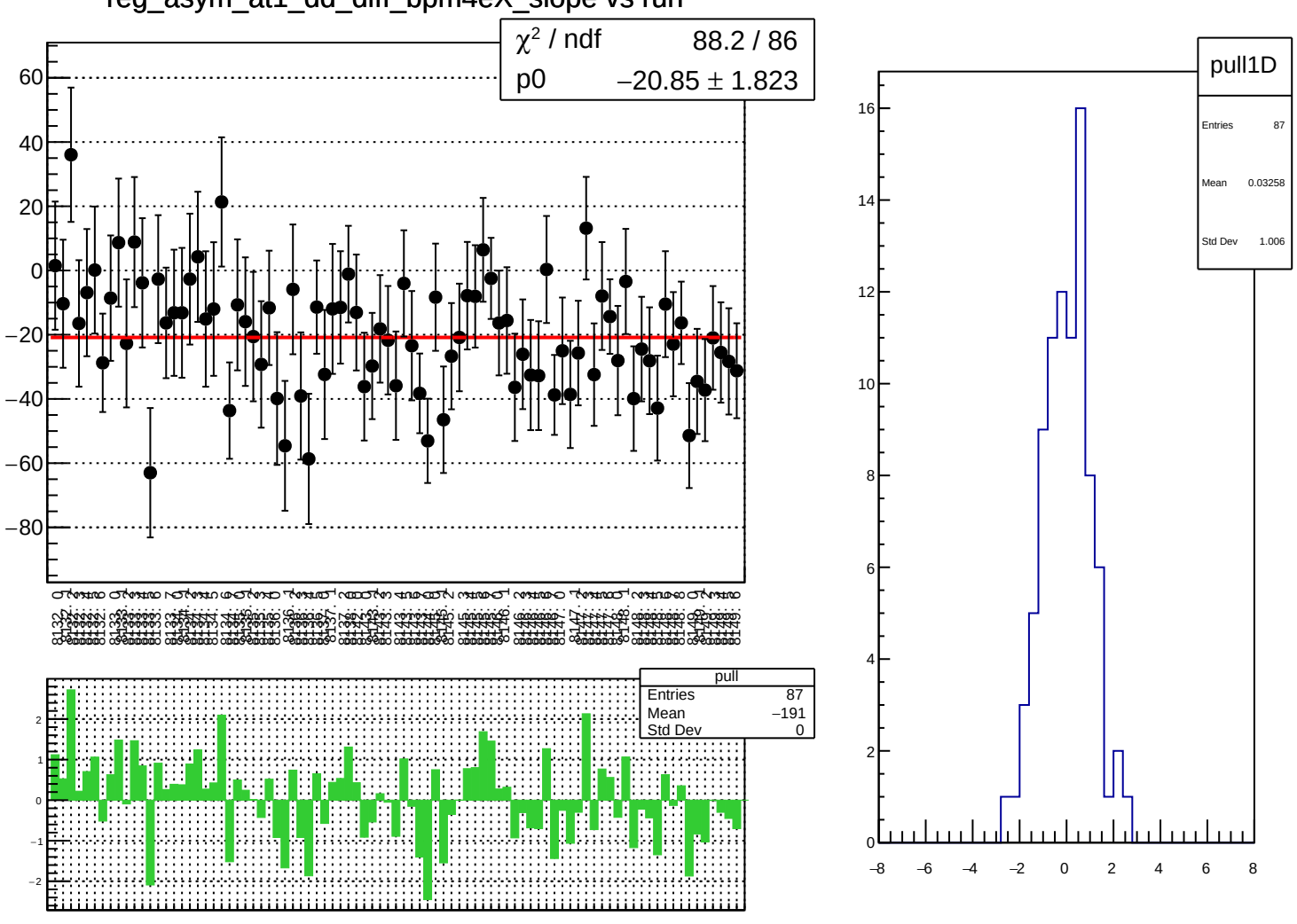

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 68.44 / 86
p0 0.661 ± 4.061
pull
Entries 87
Mean −99.66
Std Dev 0
pull1D
Entries 87
Mean −0.02191
Std Dev 0.8867

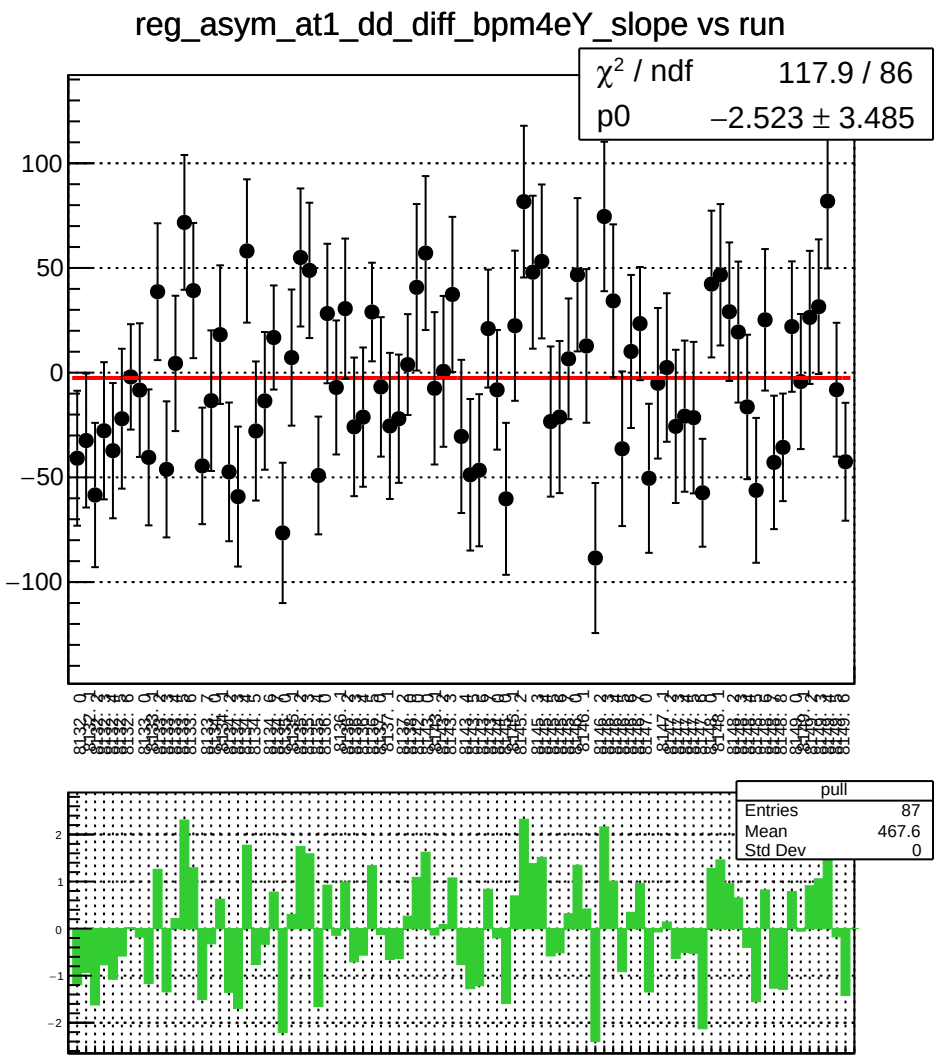

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 4.001e+04 / 86
p0 −8.016 ± 0.1629
pull
Entries 87
Mean 217
Std Dev 0
pull1D
Entries 87
Mean 0
Std Dev 0

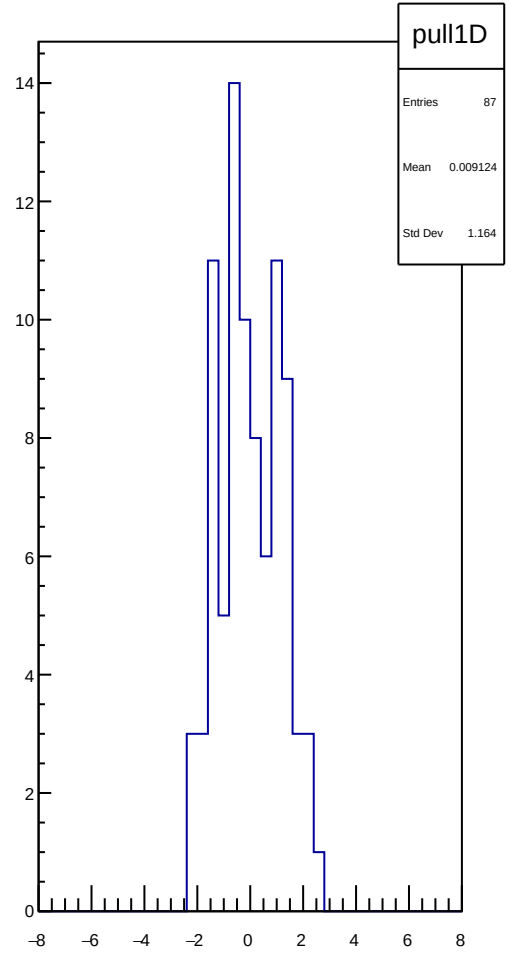

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 103.5 / 86
p0 72.78 ± 1.842
pull
Entries 87
Mean −133.6
Std Dev 0
pull1D
Entries 87
Mean −0.07308
Std Dev 1.088

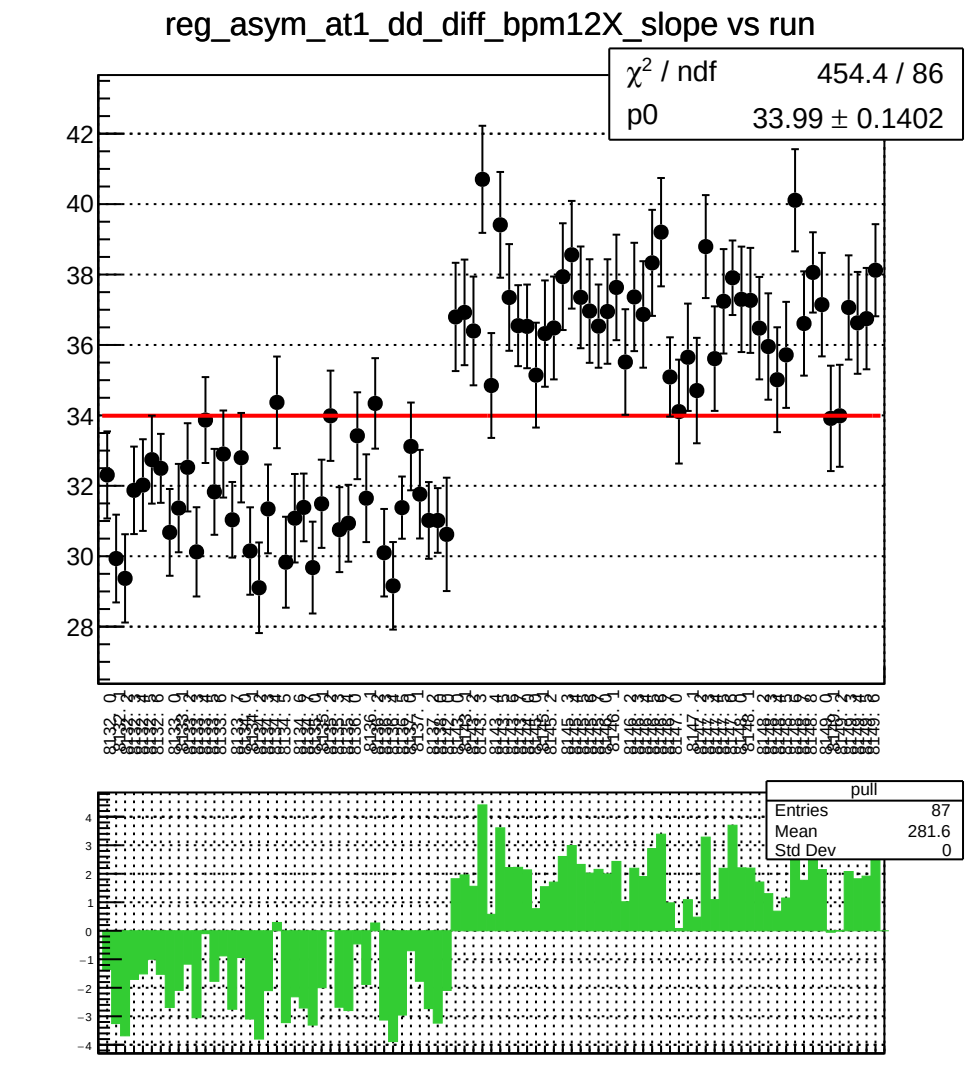

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 115.4 / 86
p0 −8.248 ± 3.256
100
50
0
−50
−100
pull
Entries 87
Mean 477.6
Std Dev 0
2
1
0
−1
−2
−3

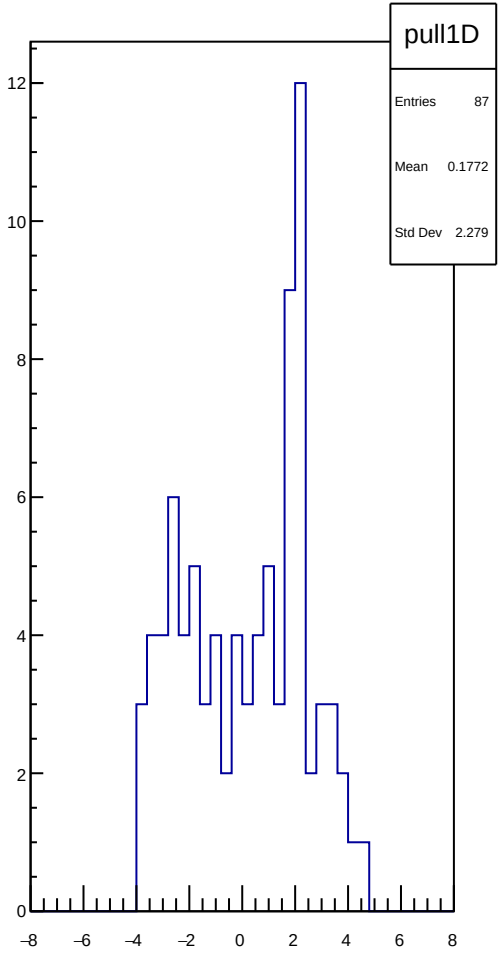

pull1D
Entries 87
Mean −0.01131
Std Dev 1.152
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

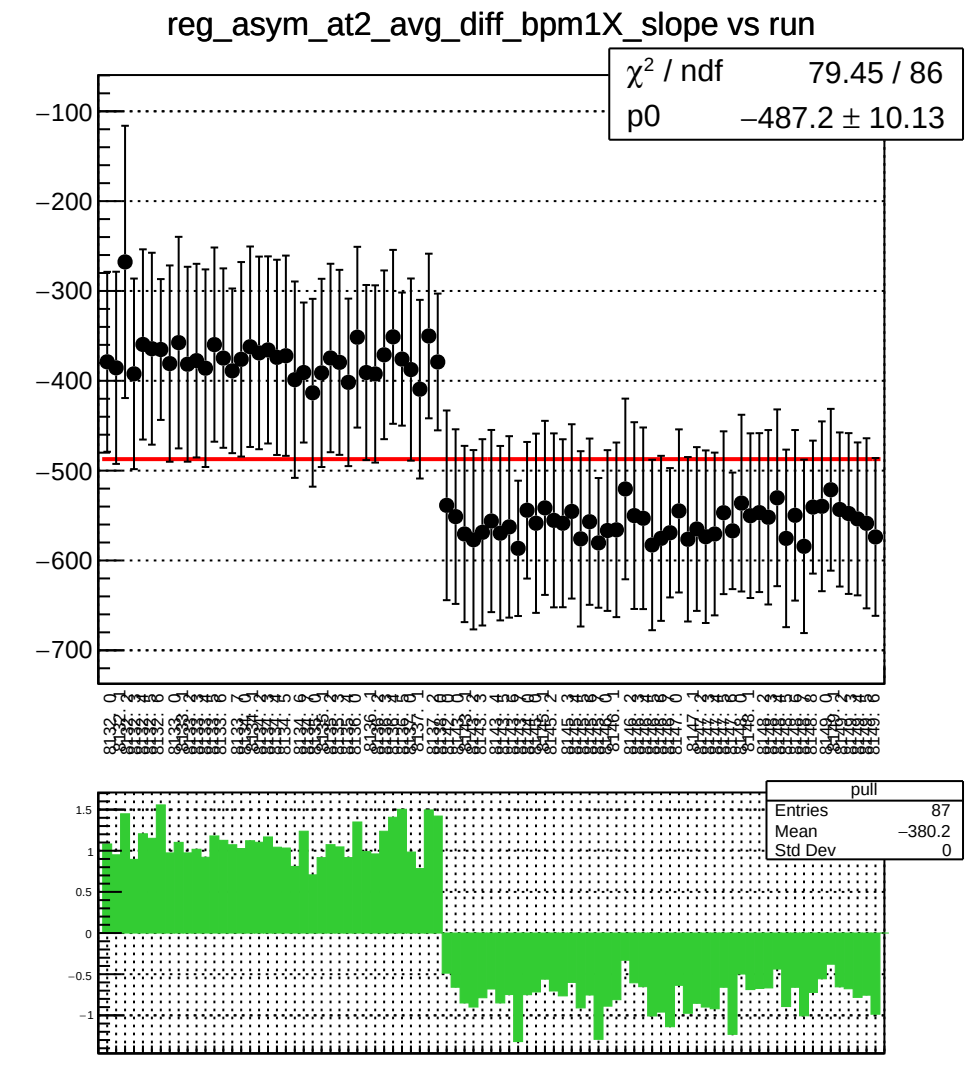

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 88.2 / 86
p0 −20.85 ± 1.823
pull
Entries 87
Mean −191
Std Dev 0
pull1D
Entries 87
Mean 0.03258
Std Dev 1.006

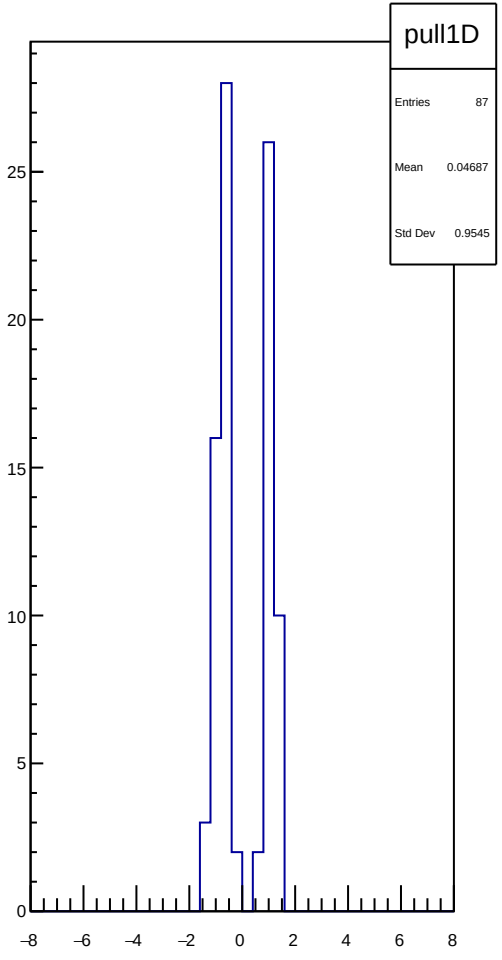

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 117.9 / 86
p0 −2.523 ± 3.485
100
50
0
−50
−100
pull
Entries 87
Mean 467.6
Std Dev 0
2
1
0
−1
−2

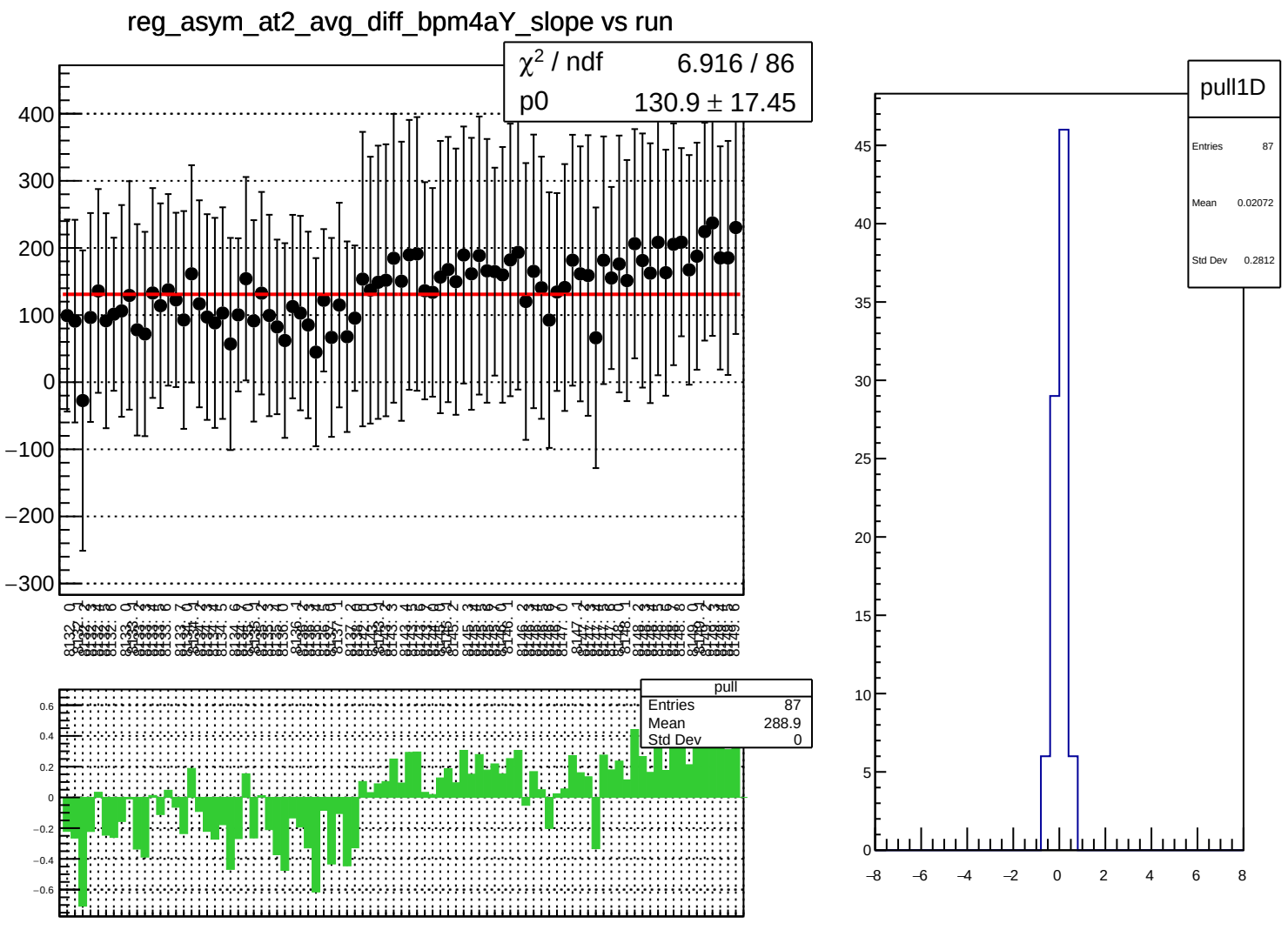

pull1D
Entries 87
Mean 0.009124
Std Dev 1.164
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

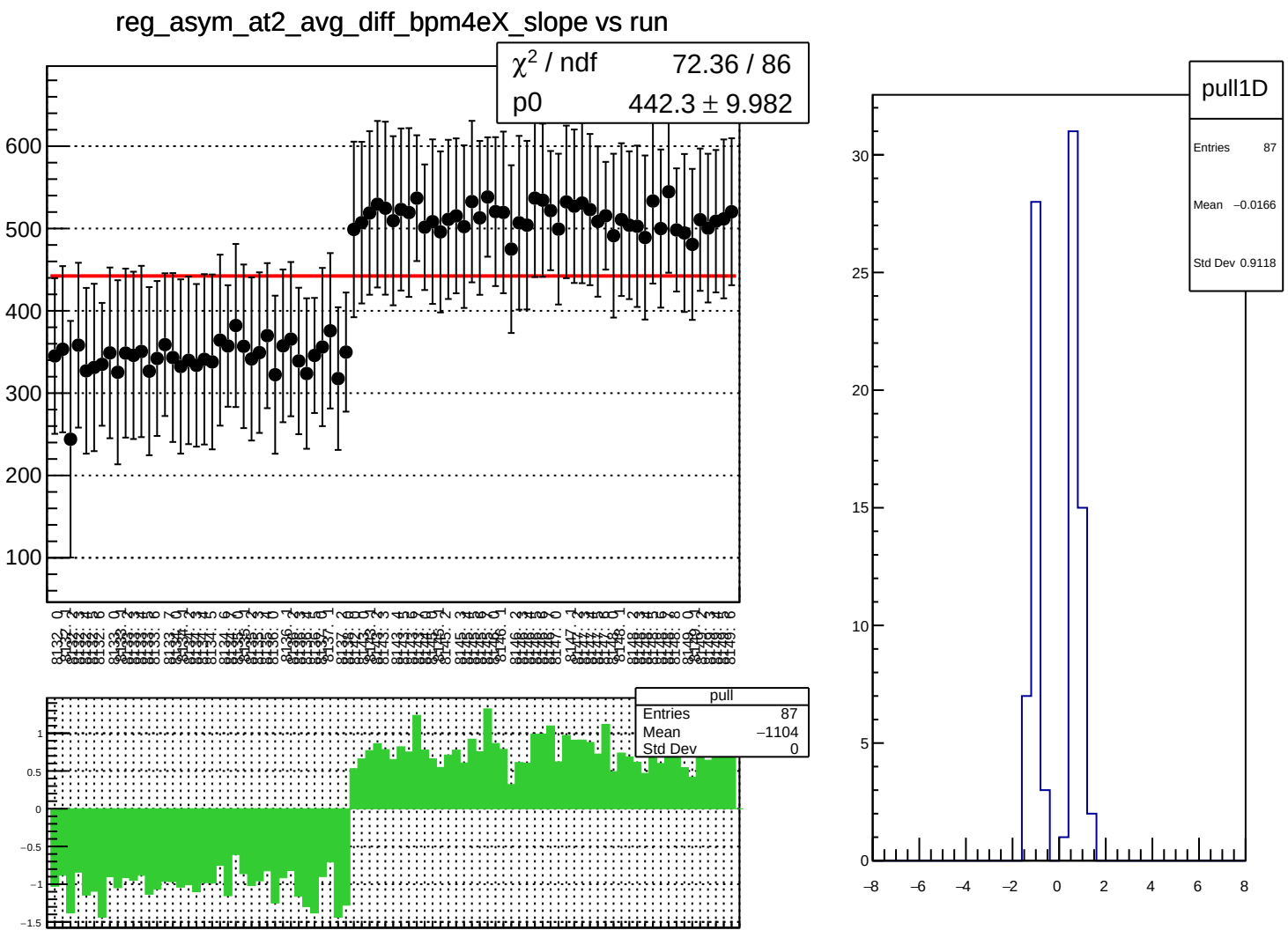

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 454.4 / 86
p0 33.99 ± 0.1402
pull
Entries 87
Mean 281.6
Std Dev 0

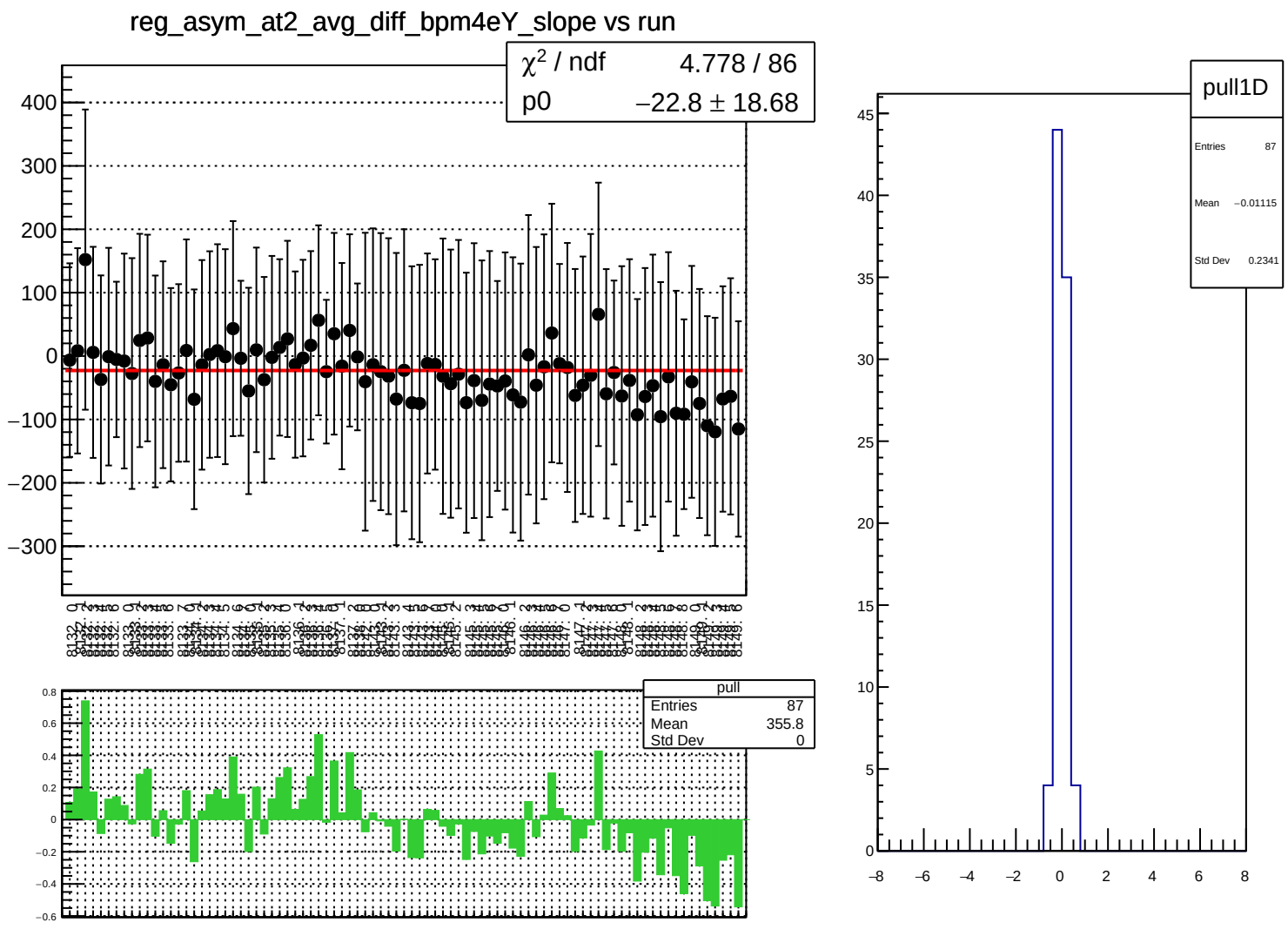

pull1D
Entries 87
Mean 0.1772
Std Dev 2.279

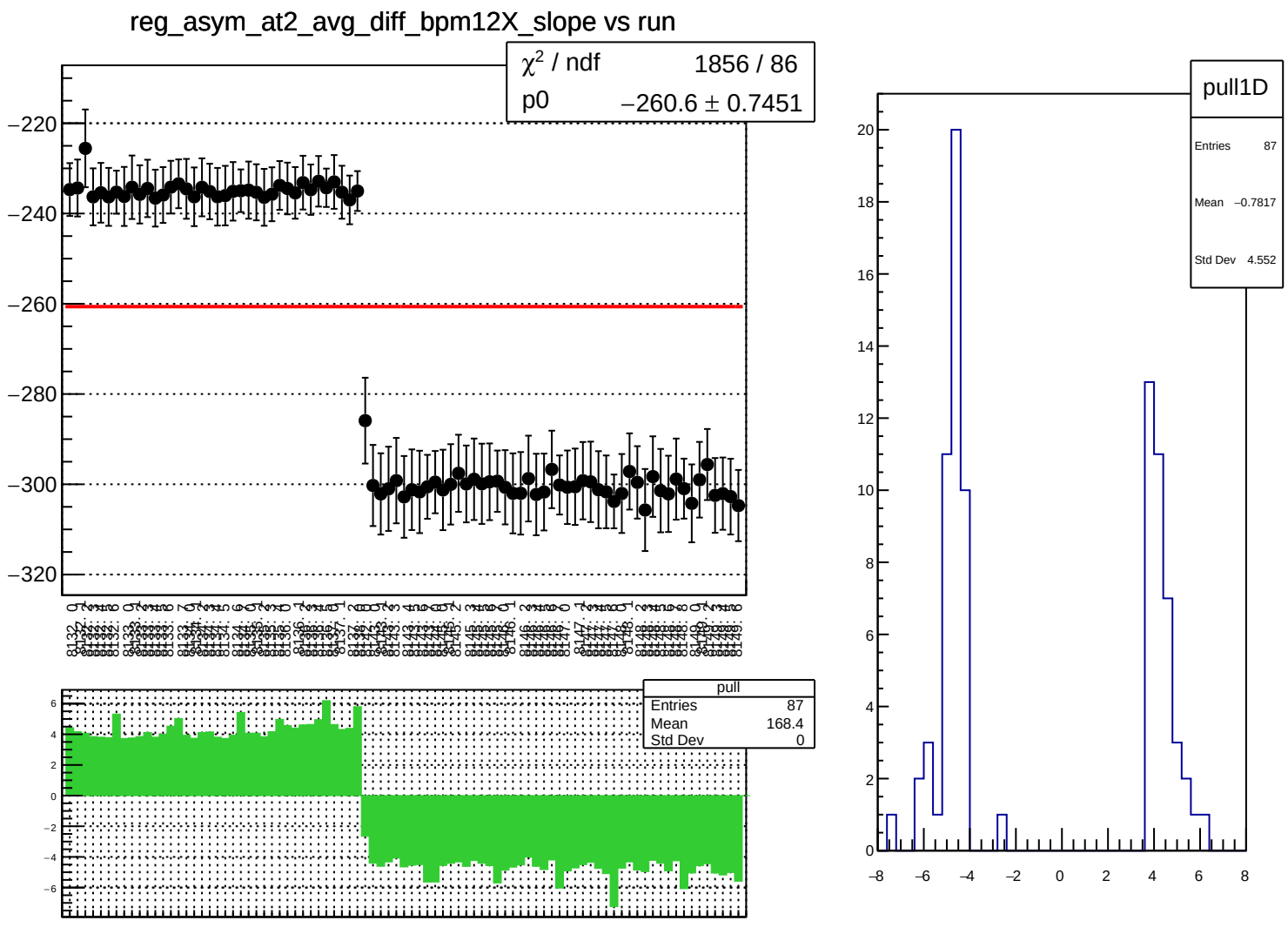

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 79.45 / 86
p0 −487.2 ± 10.13
−100
−200
−300
−400
−500
−600
−700
pull
Entries 87
Mean −380.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1

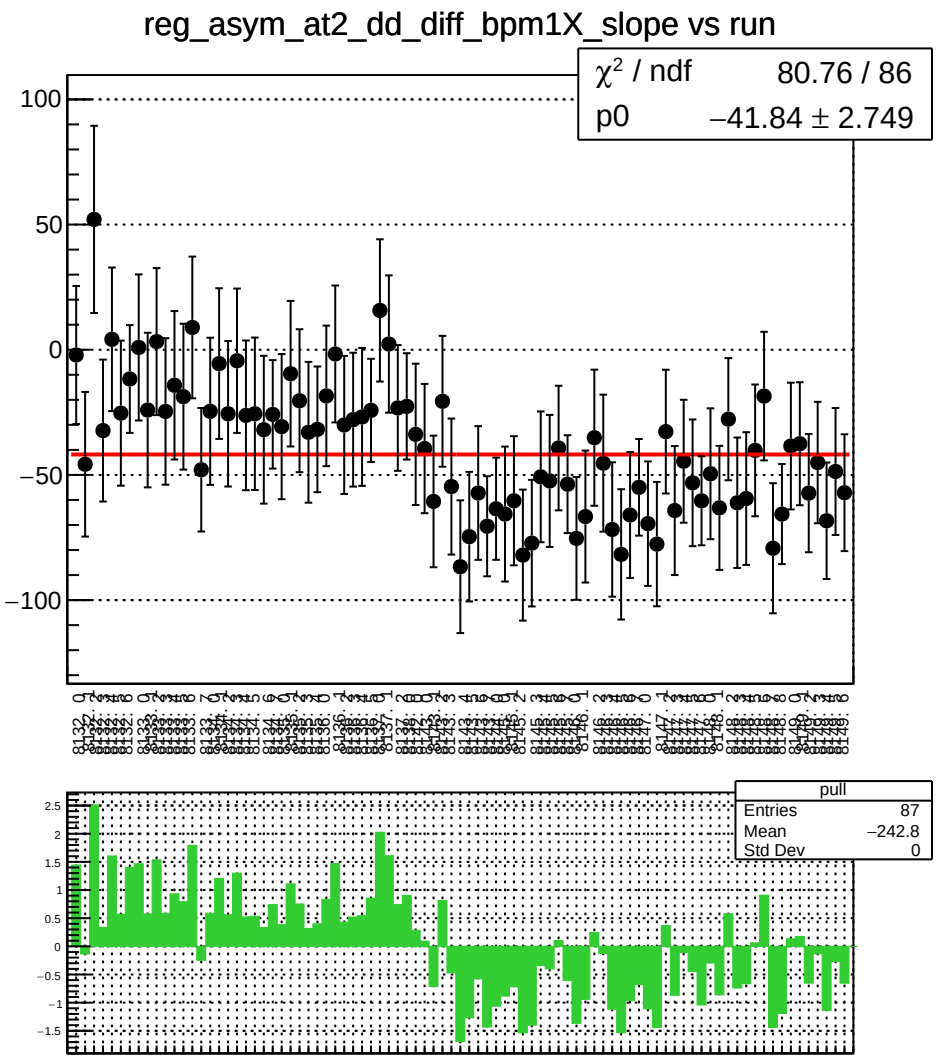

pull1D
Entries 87
Mean 0.04687
Std Dev 0.9545
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

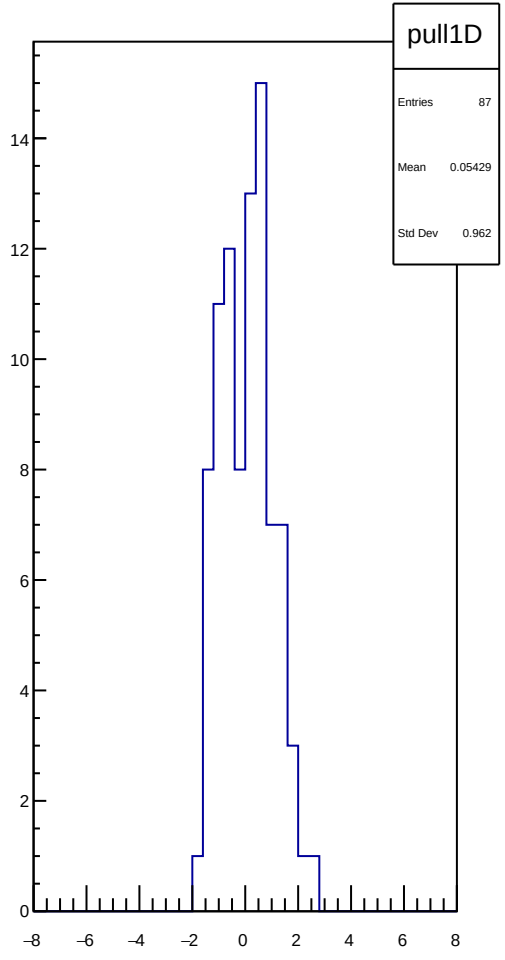

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.916 / 86
p0 130.9 ± 17.45
pull
Entries 87
Mean 288.9
Std Dev 0
pull1D
Entries 87
Mean 0.02072
Std Dev 0.2812

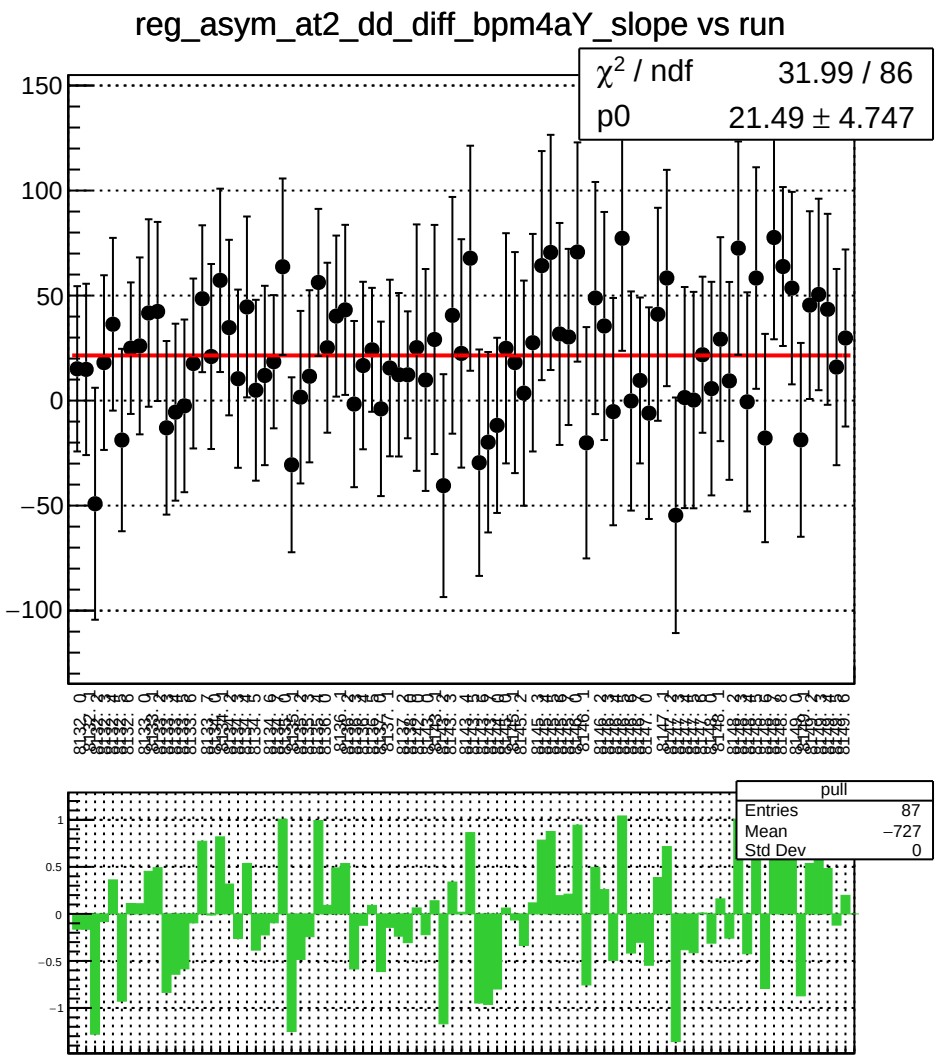

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 72.36 / 86
p0 442.3 ± 9.982
600
500
400
300
200
100
pull
Entries 87
Mean −1104
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 87
Mean −0.0166
Std Dev 0.9118
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

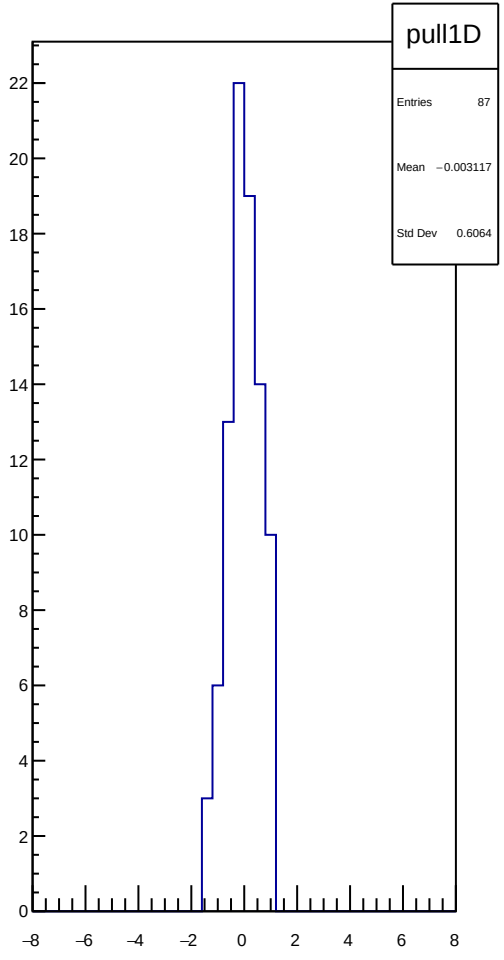

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.778 / 86
p0 −22.8 ± 18.68
pull
Entries 87
Mean 355.8
Std Dev 0
pull1D
Entries 87
Mean −0.01115
Std Dev 0.2341

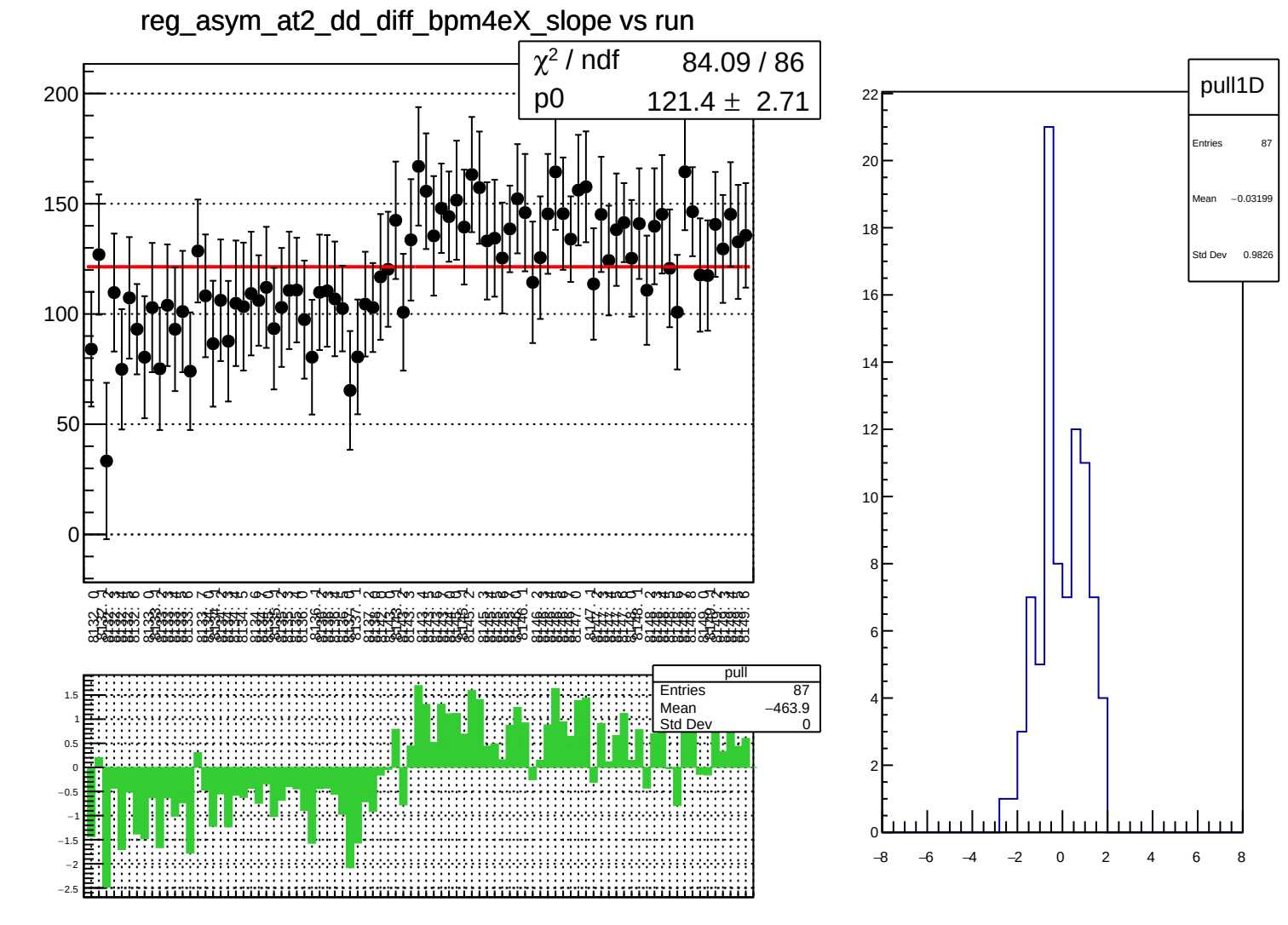

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 1856 / 86
p0 −260.6 ± 0.7451
−220
−240
−260
−280
−300
−320
pull
Entries 87
Mean 168.4
Std Dev 0
pull1D
Entries 87
Mean −0.7817
Std Dev 4.552

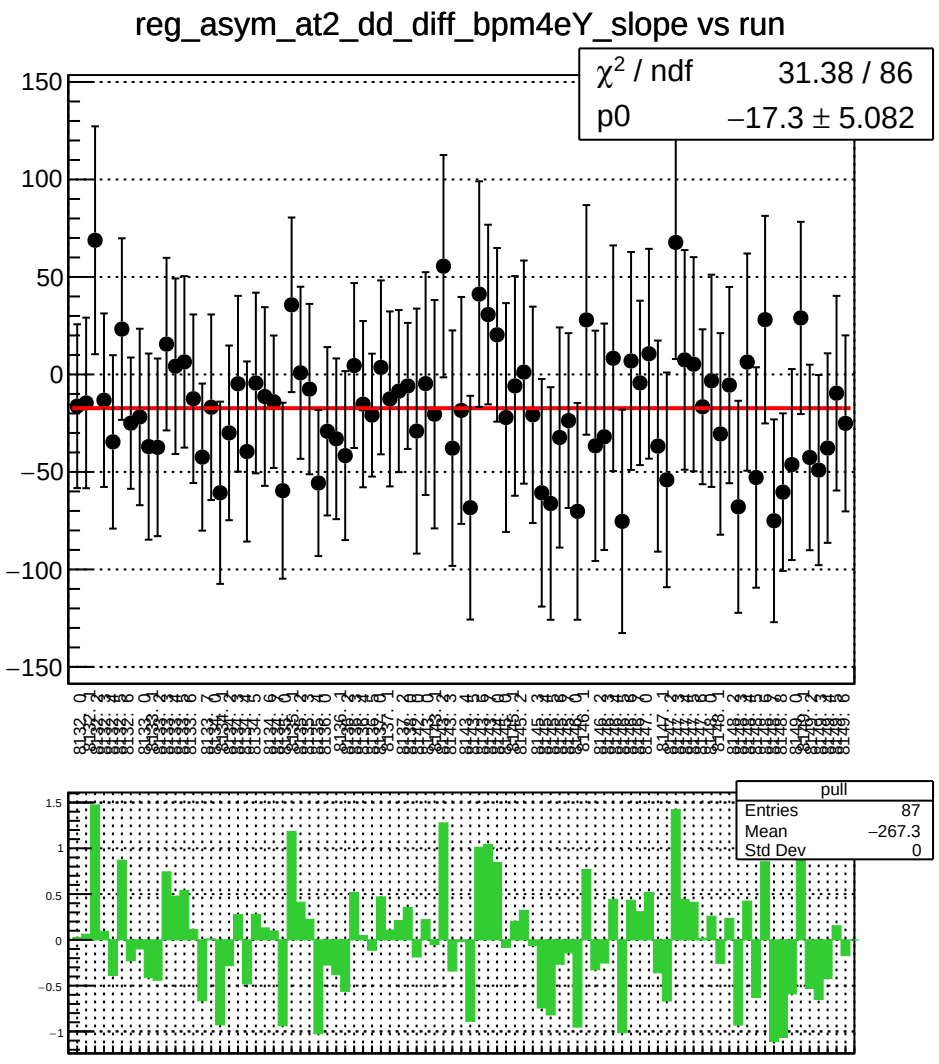

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 80.76 / 86
p0 −41.84 ± 2.749
100
50
0
−50
−100
pull
Entries 87
Mean −242.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

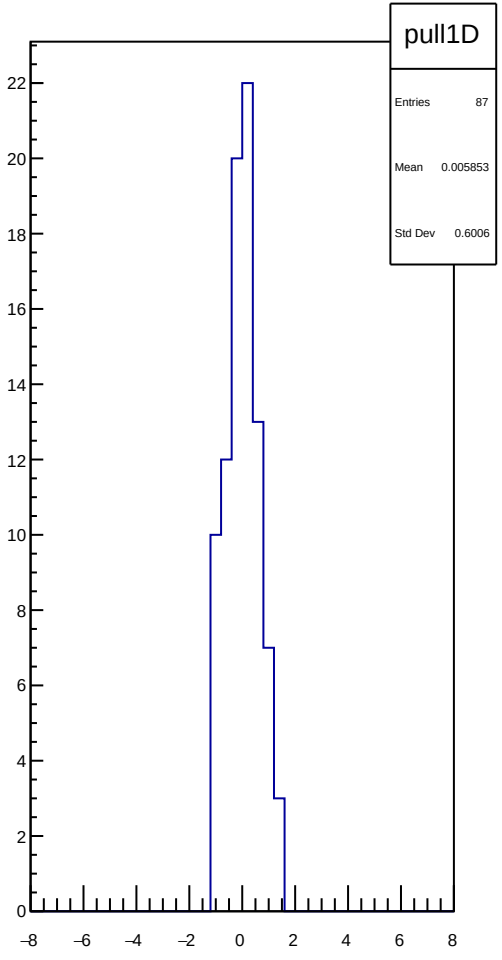

pull1D
Entries 87
Mean 0.05429
Std Dev 0.962
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

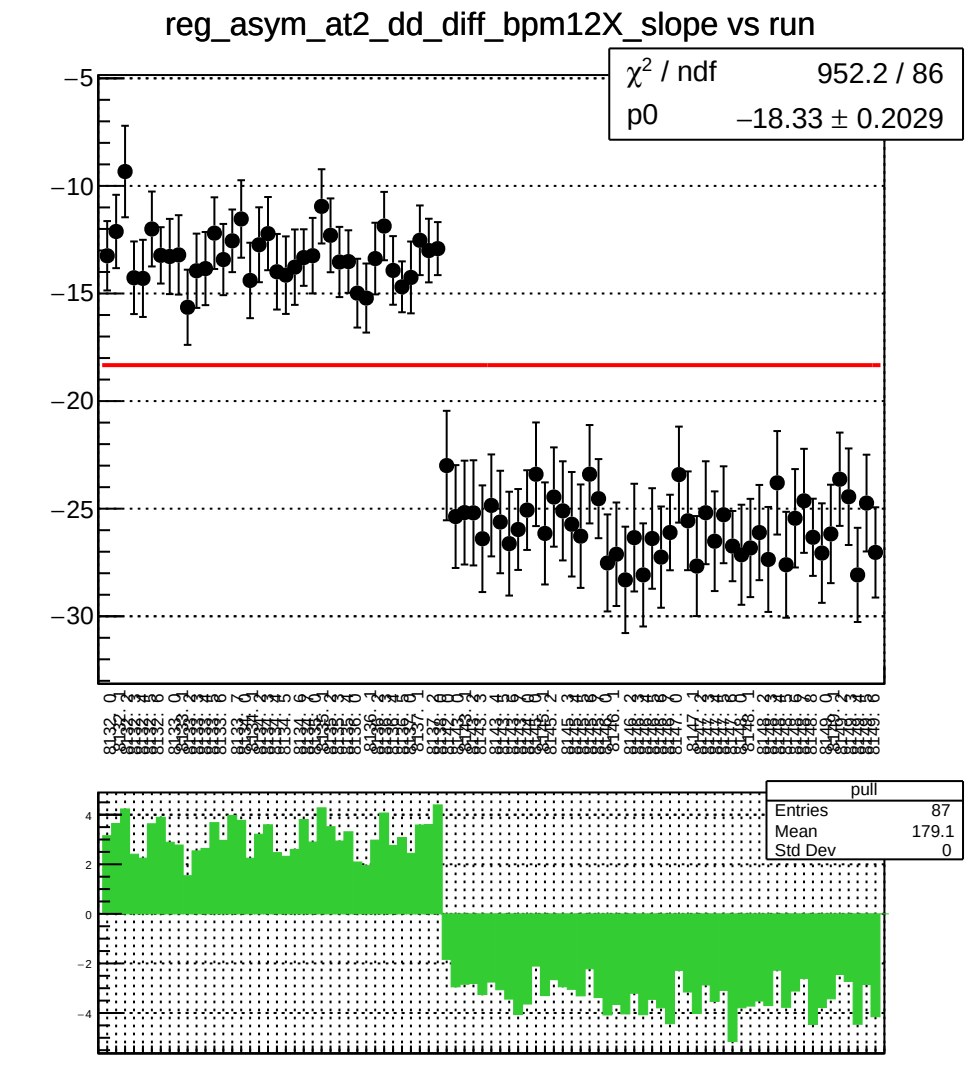

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 31.99 / 86
p0 21.49 ± 4.747
150
100
50
0
−50
−100
pull
Entries 87
Mean −727
Std Dev 0
1
0.5
0
−0.5
−1

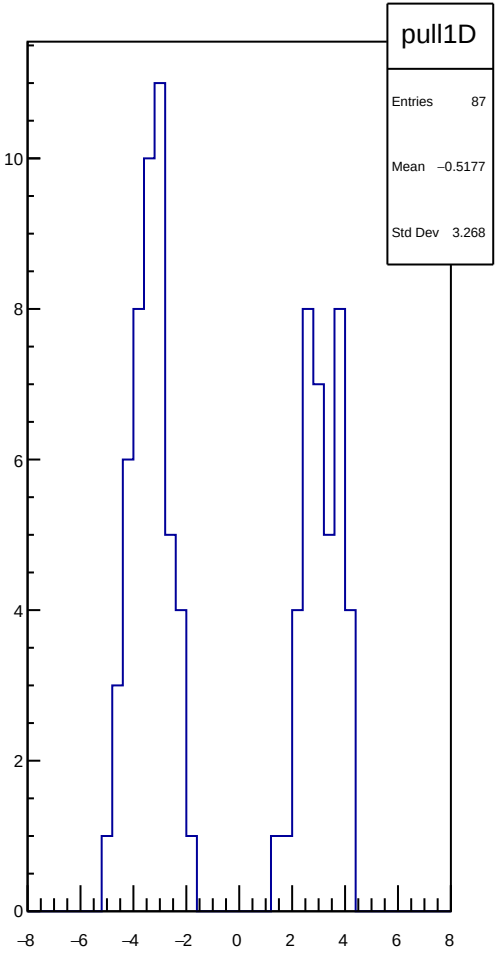

pull1D
Entries 87
Mean −0.003117
Std Dev 0.6064
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

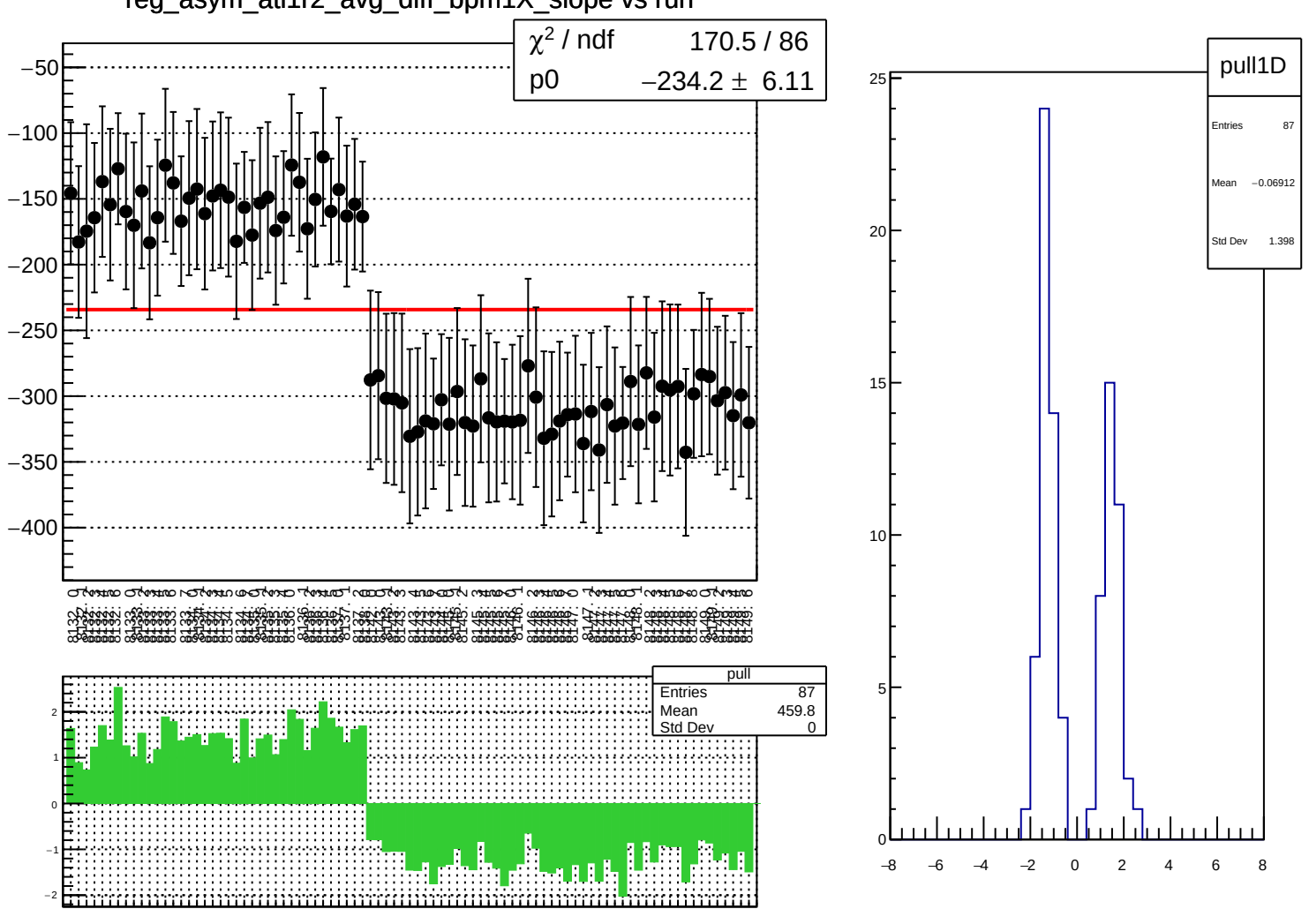

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 84.09 / 86
p0 121.4 ± 2.71
pull
Entries 87
Mean −463.9
Std Dev 0
pull1D
Entries 87
Mean −0.03199
Std Dev 0.9826

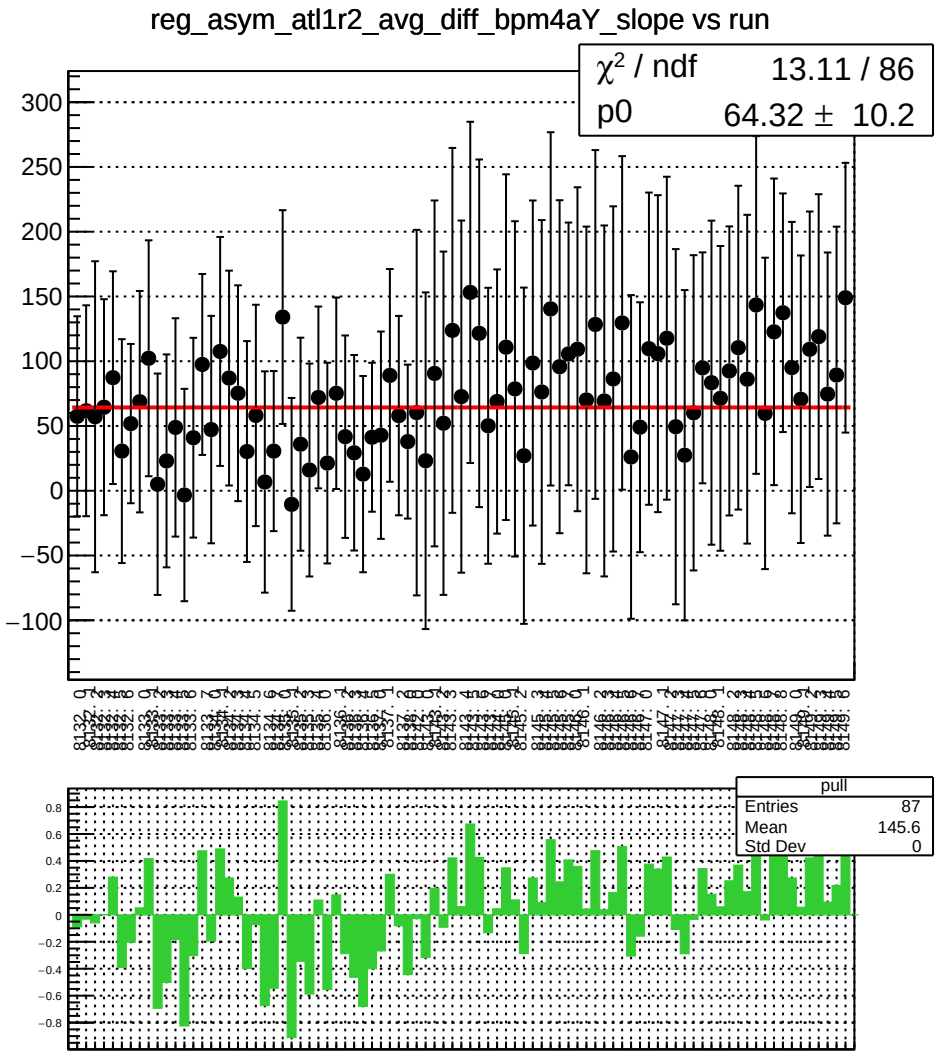

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 31.38 / 86
p0 −17.3 ± 5.082
pull
Entries 87
Mean −267.3
Std Dev 0

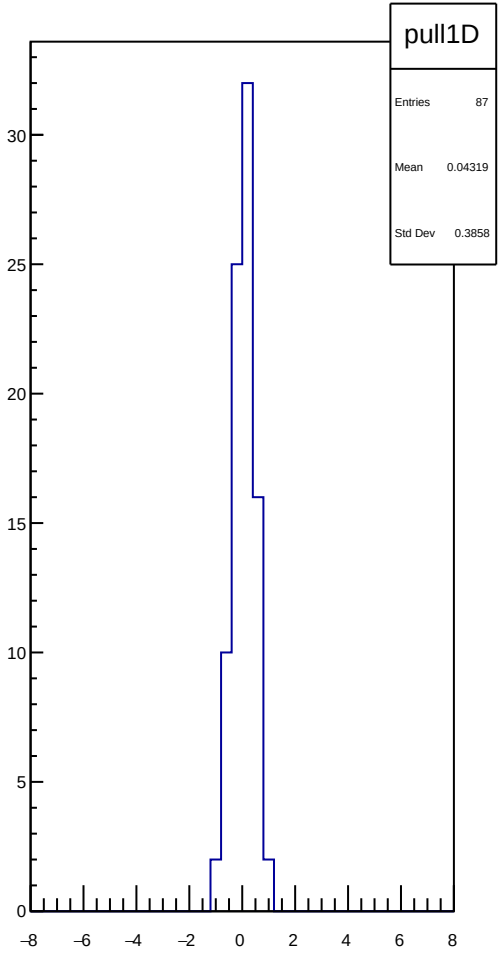

pull1D
Entries 87
Mean 0.005853
Std Dev 0.6006

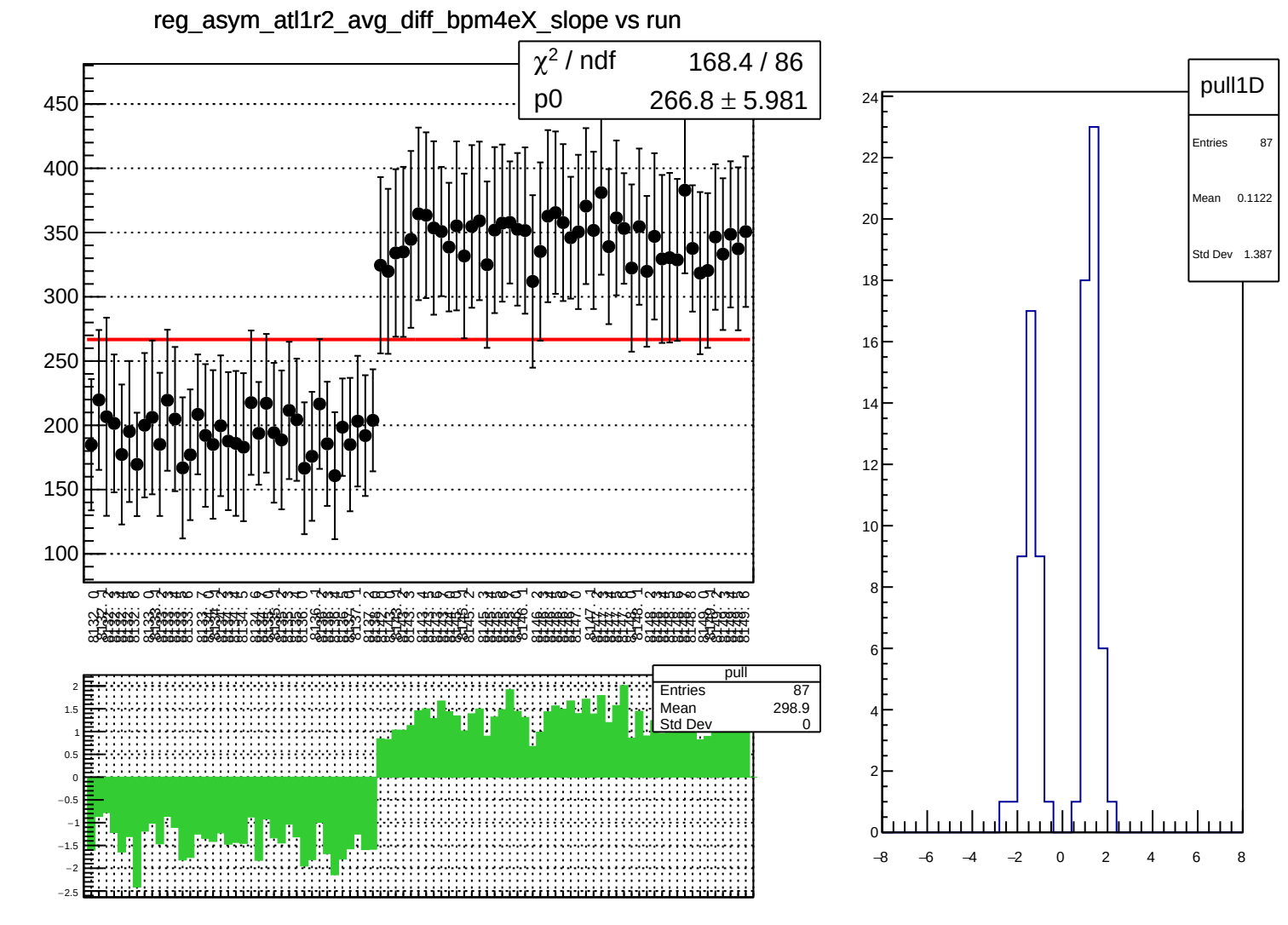

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 952.2 / 86
p0 −18.33 ± 0.2029
pull
Entries 87
Mean 179.1
Std Dev 0

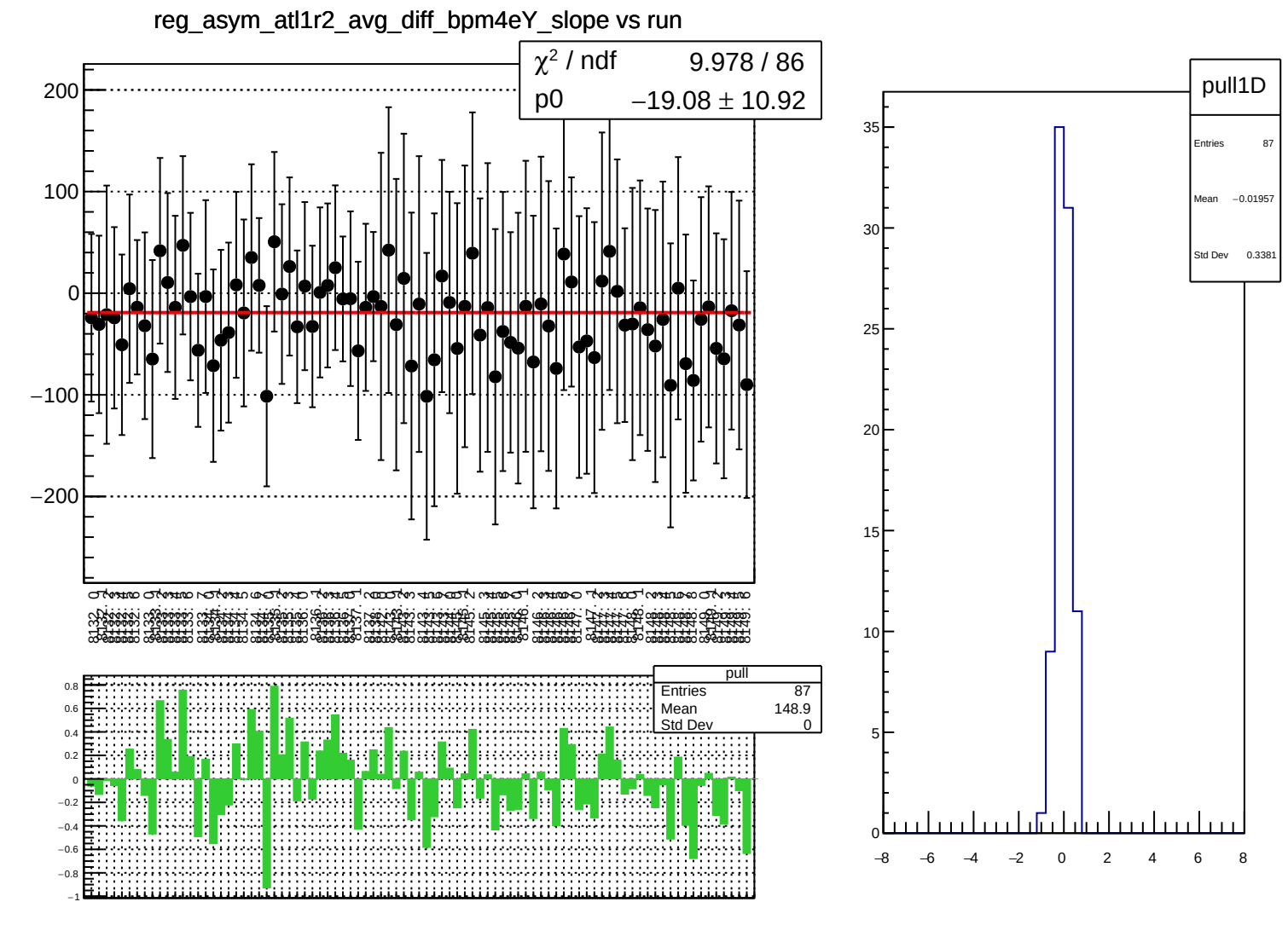

pull1D
Entries 87
Mean −0.5177
Std Dev 3.268

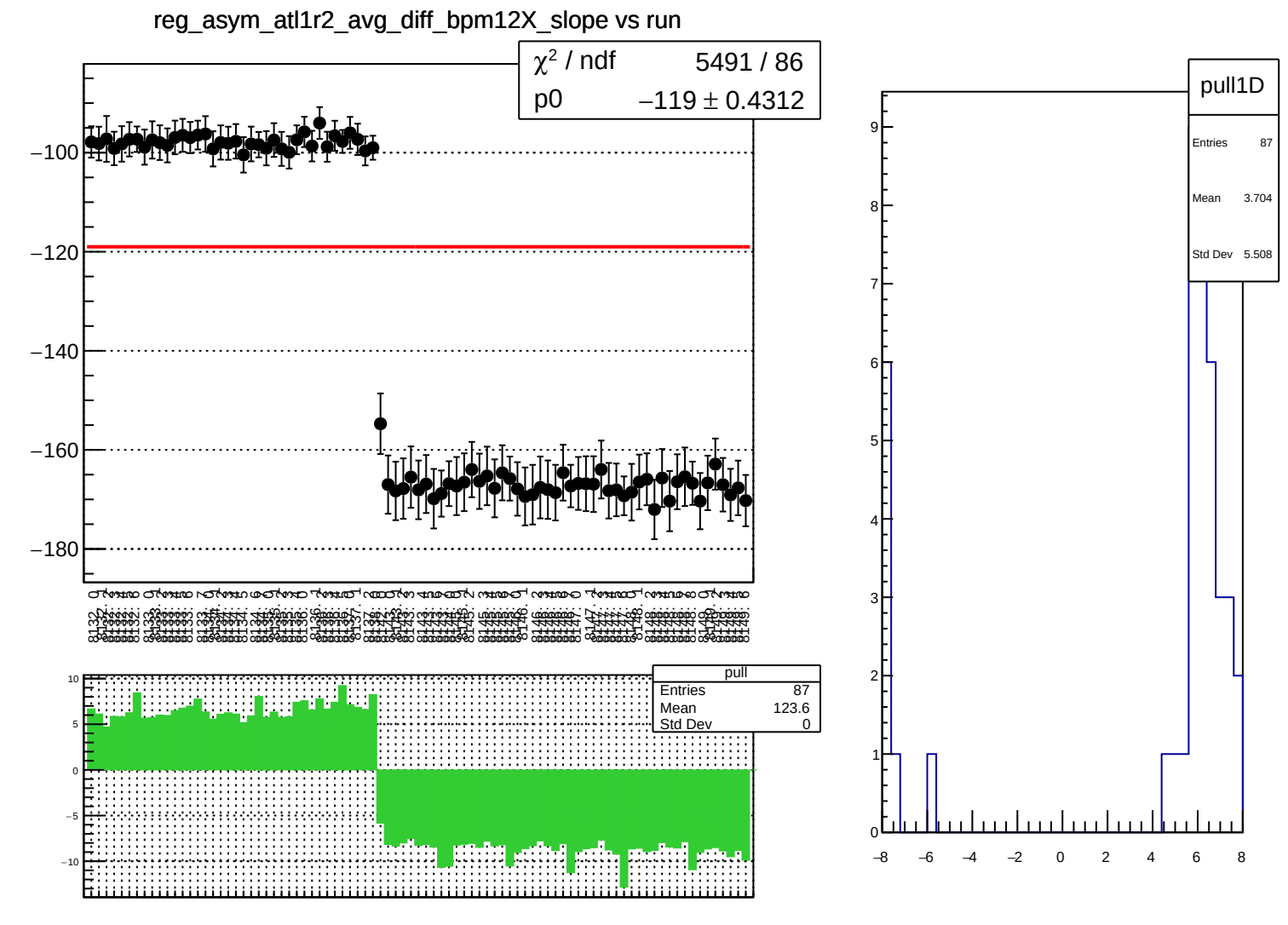

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 170.5 / 86
p0 −234.2 ± 6.11
pull
Entries 87
Mean 459.8
Std Dev 0
pull1D
Entries 87
Mean −0.06912
Std Dev 1.398

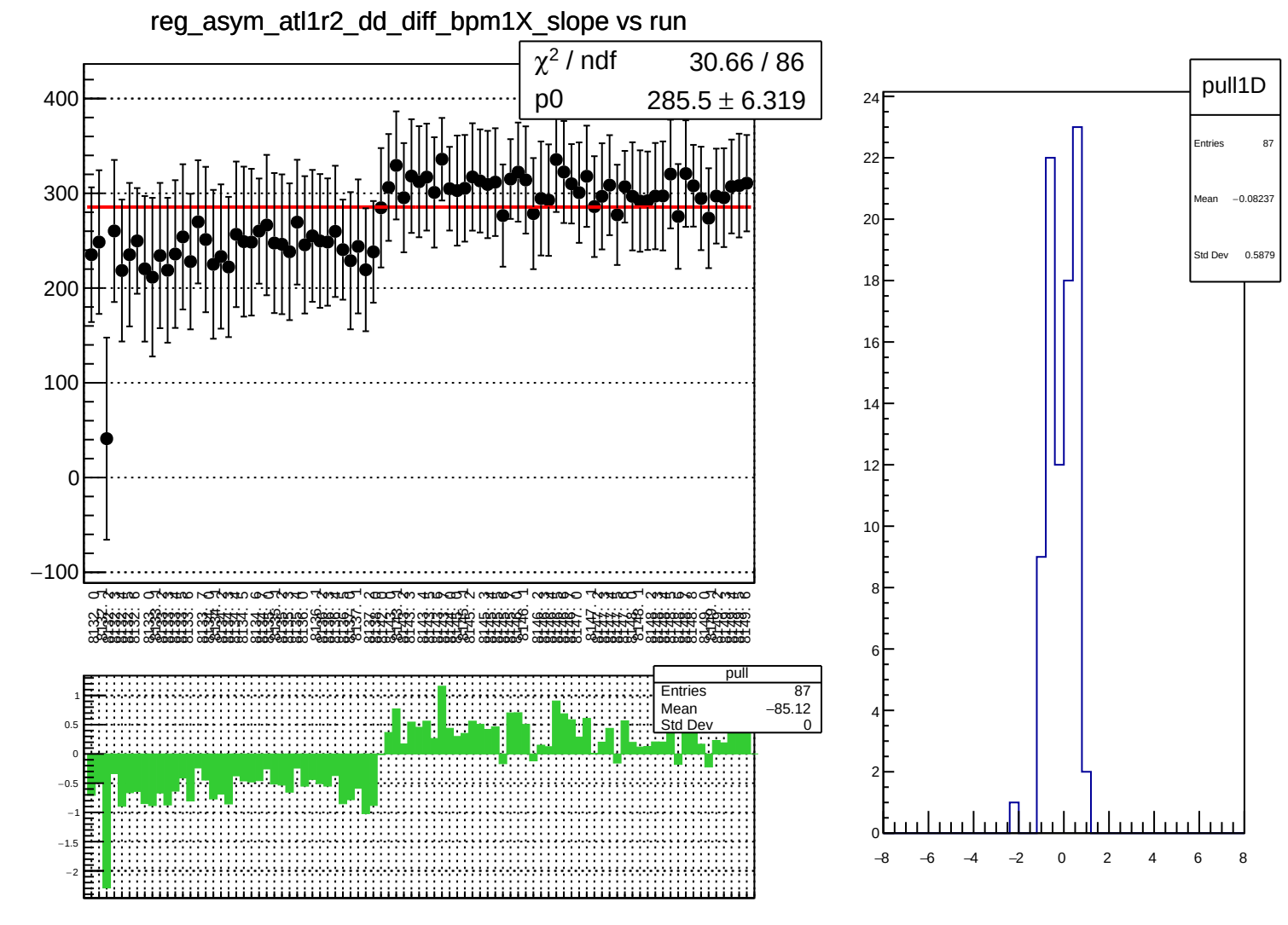

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.11 / 86
p0 64.32 ± 10.2
pull
Entries 87
Mean 145.6
Std Dev 0

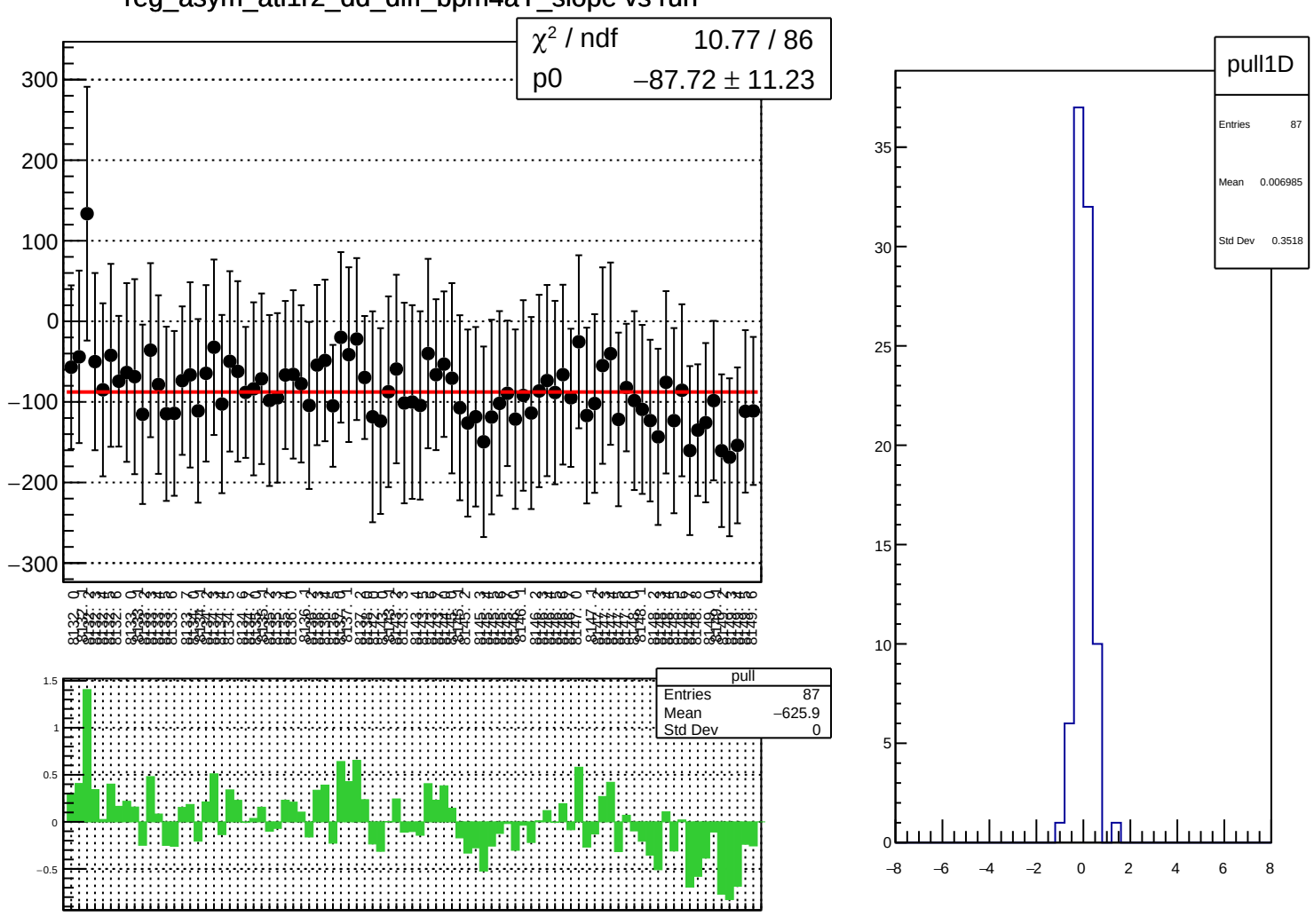

pull1D
Entries 87
Mean 0.04319
Std Dev 0.3858

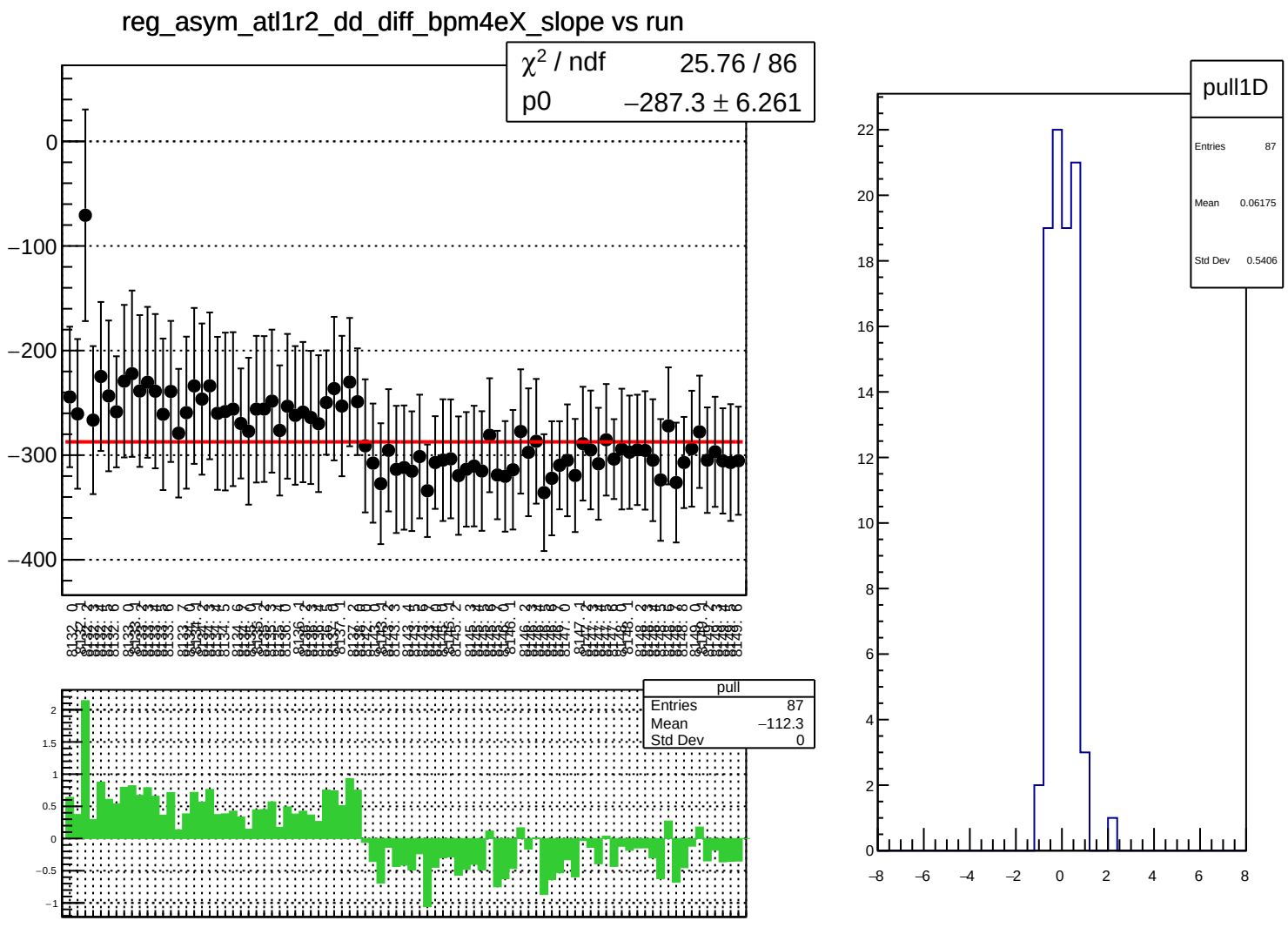

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 168.4 / 86
p0 266.8 ± 5.981
pull
Entries 87
Mean 298.9
Std Dev 0
pull1D
Entries 87
Mean 0.1122
Std Dev 1.387

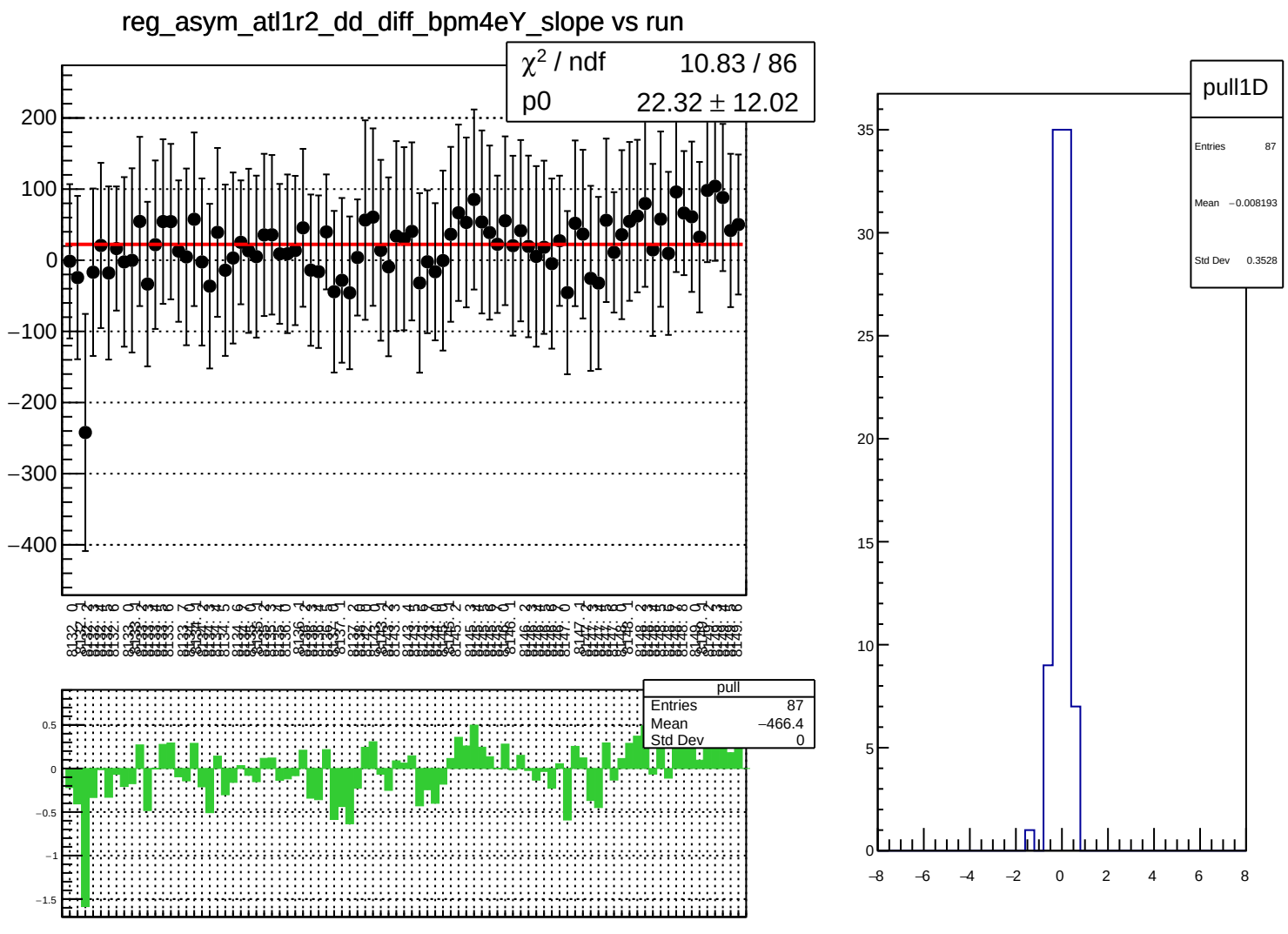

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.978 / 86
p0 −19.08 ± 10.92
200
100
0
−100
−200
pull
Entries 87
Mean 148.9
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 87
Mean −0.01957
Std Dev 0.3381
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

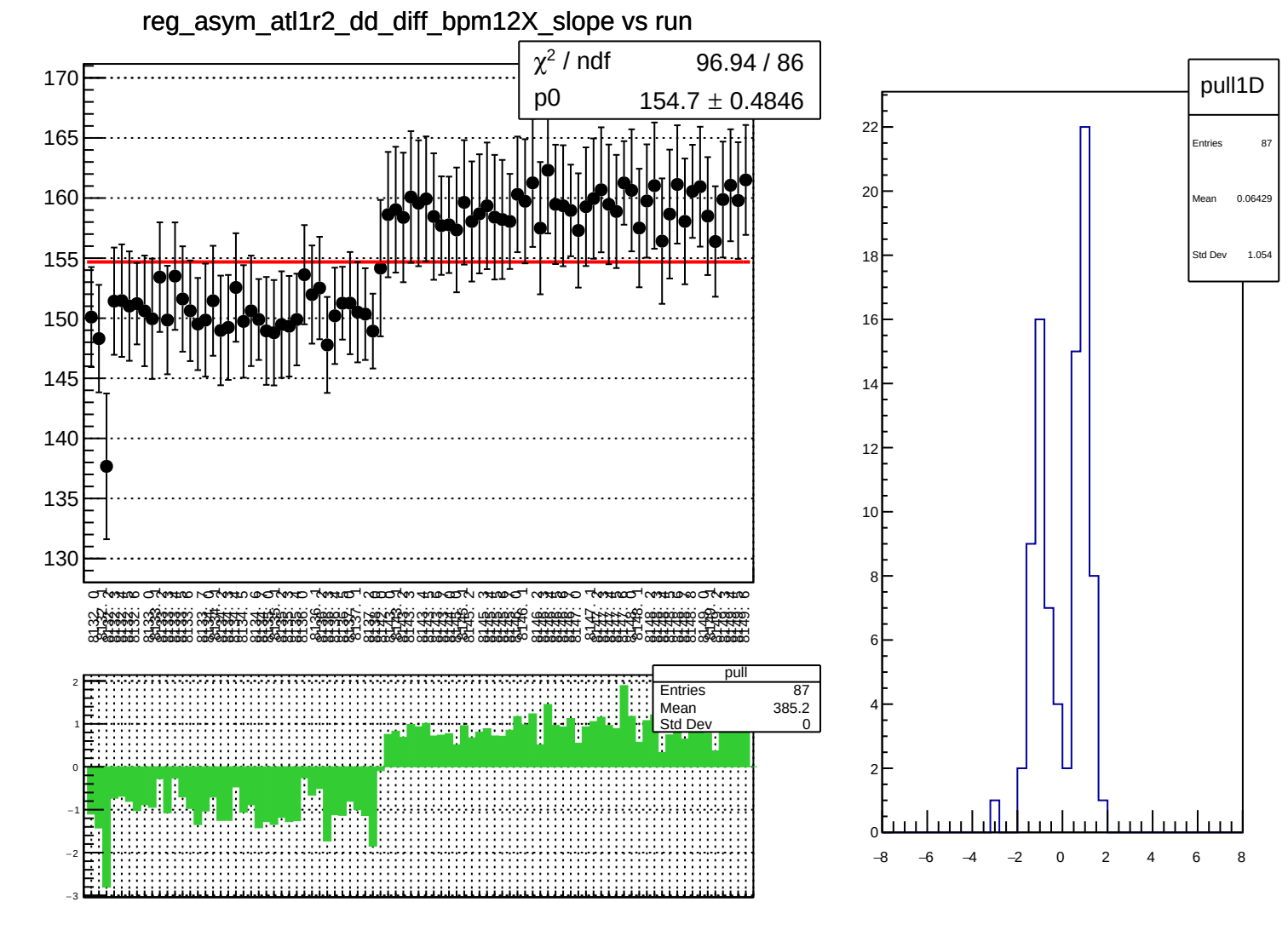

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 5491 / 86
p0 −119 ± 0.4312
−100
−120
−140
−160
−180
pull
Entries 87
Mean 123.6
Std Dev 0
10
5
0
−5
−10
pull1D
Entries 87
Mean 3.704
Std Dev 5.508
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

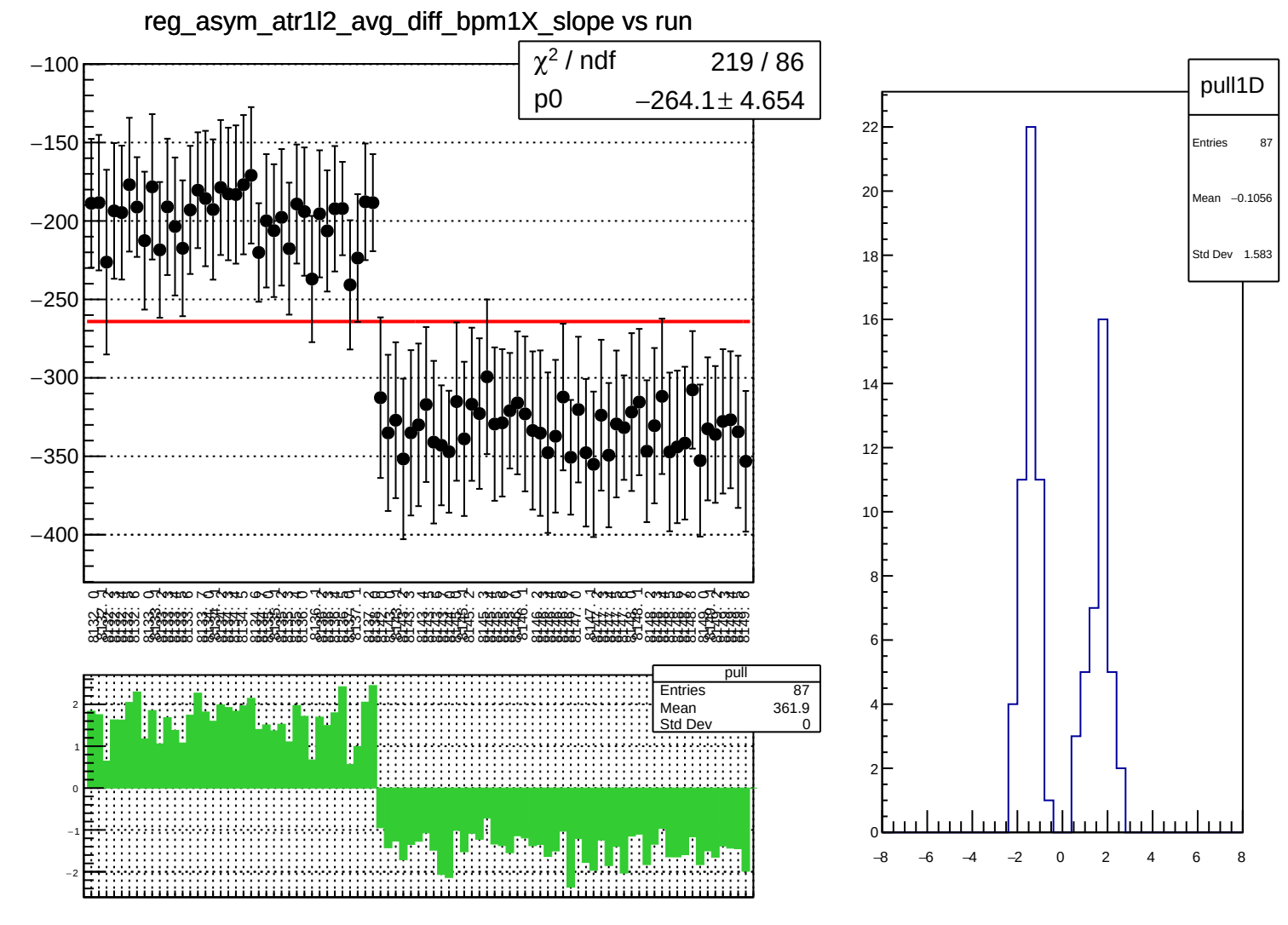

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 30.66 / 86
p0 285.5 ± 6.319
pull
Entries 87
Mean −85.12
Std Dev 0
pull1D
Entries 87
Mean −0.08237
Std Dev 0.5879

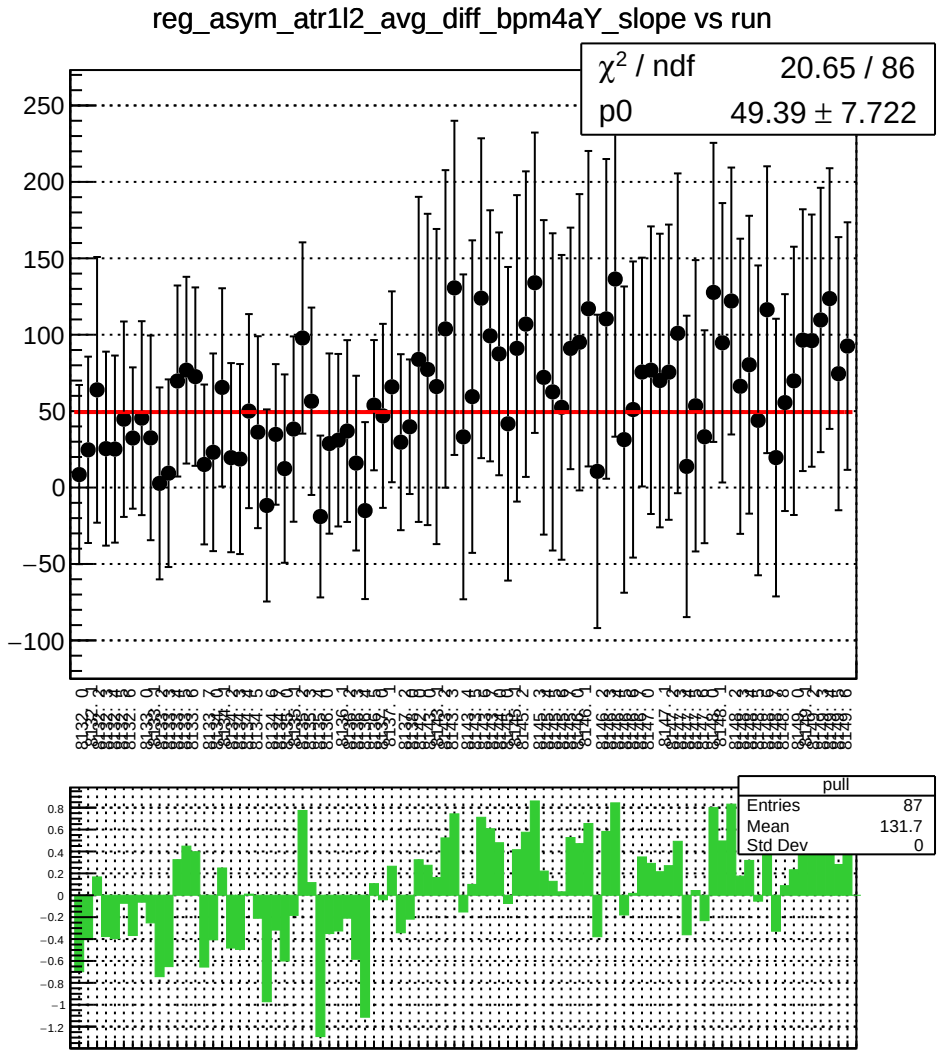

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.77 / 86
p0 −87.72 ± 11.23
pull
Entries 87
Mean −625.9
Std Dev 0
pull1D
Entries 87
Mean 0.006985
Std Dev 0.3518

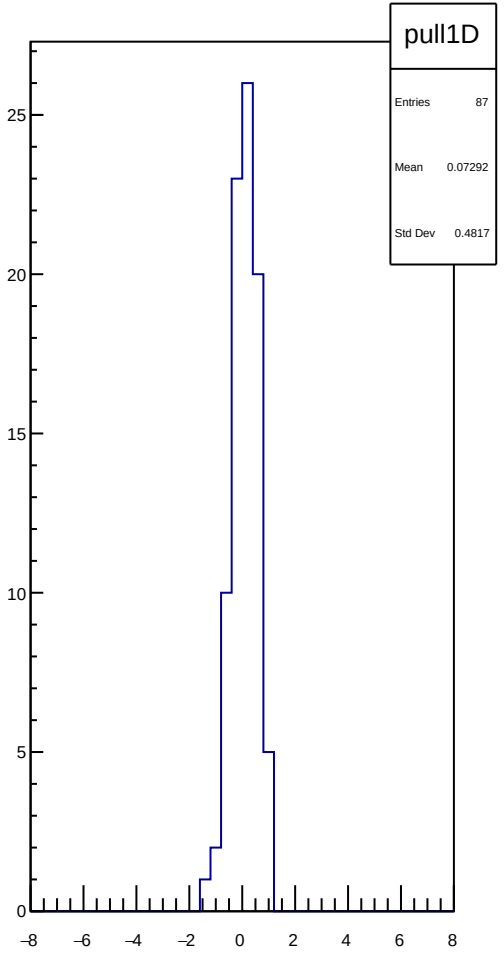

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 25.76 / 86
p0 −287.3 ± 6.261
pull
Entries 87
Mean −112.3
Std Dev 0
pull1D
Entries 87
Mean 0.06175
Std Dev 0.5406

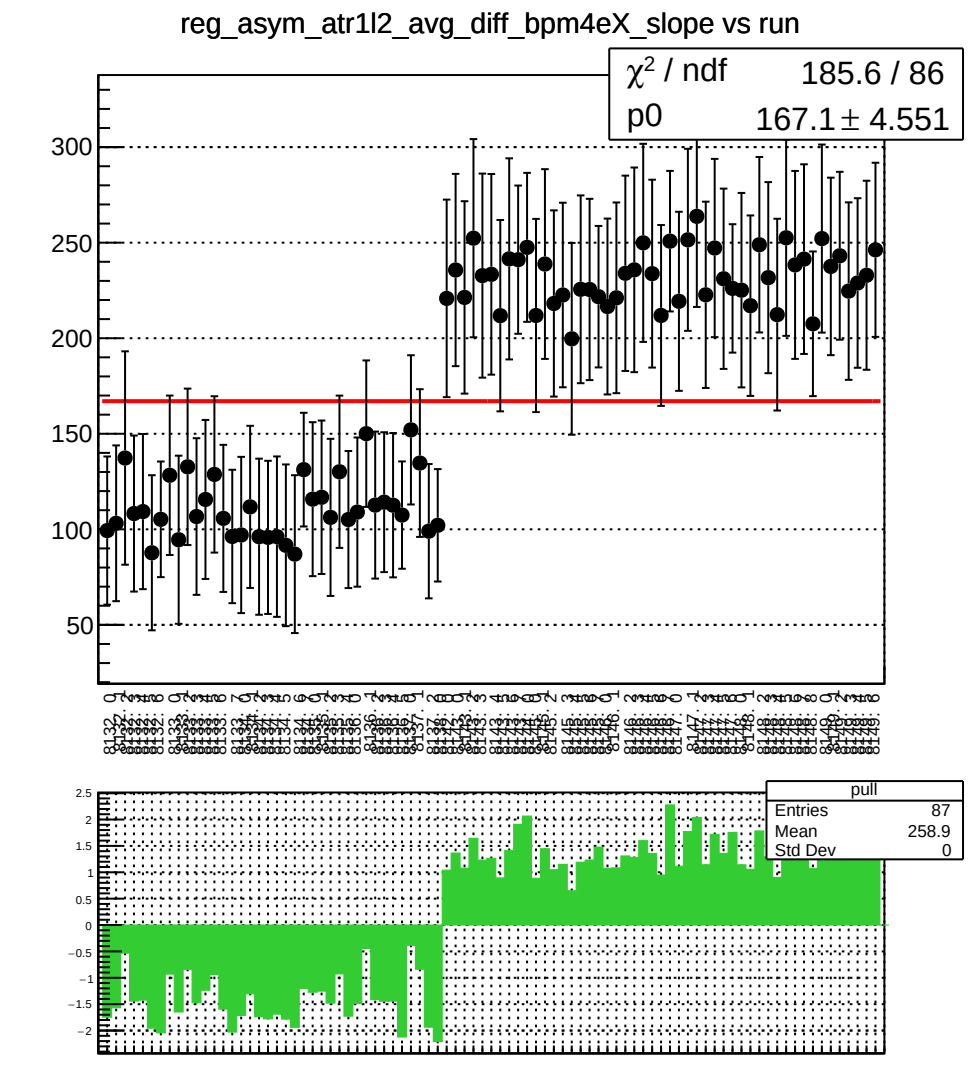

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.83 / 86
p0 22.32 ± 12.02
pull
Entries 87
Mean −466.4
Std Dev 0
pull1D
Entries 87
Mean −0.008193
Std Dev 0.3528

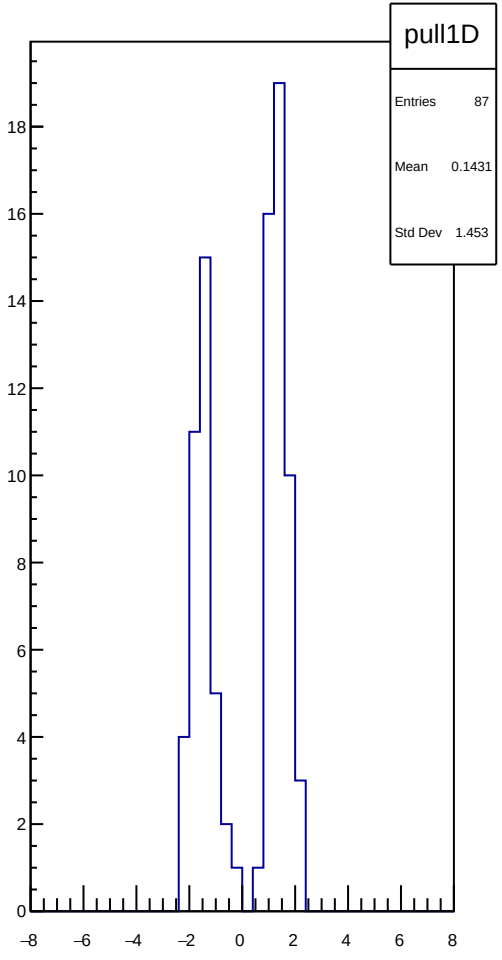

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 96.94 / 86
p0 154.7 ± 0.4846
pull
Entries 87
Mean 385.2
Std Dev 0
pull1D
Entries 87
Mean 0.06429
Std Dev 1.054

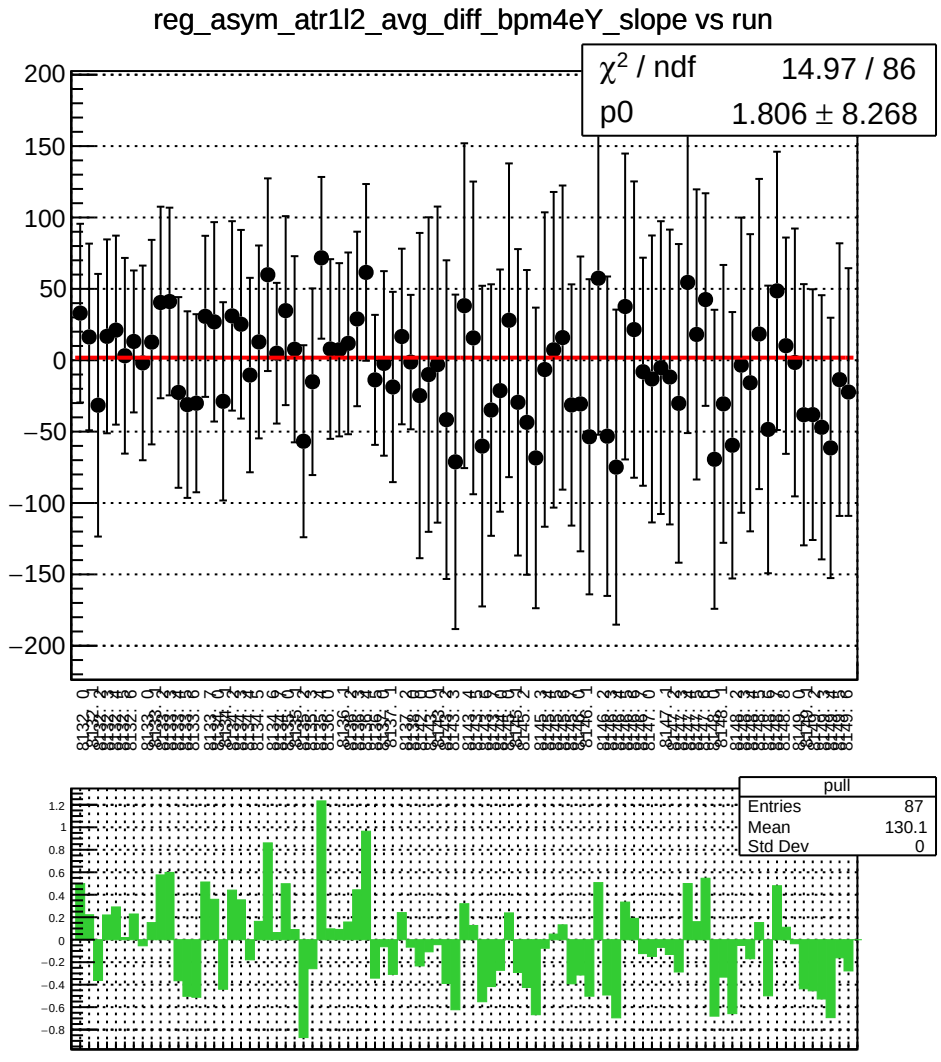

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 219 / 86
p0 −264.1 ± 4.654
pull
Entries 87
Mean 361.9
Std Dev 0
pull1D
Entries 87
Mean −0.1056
Std Dev 1.583

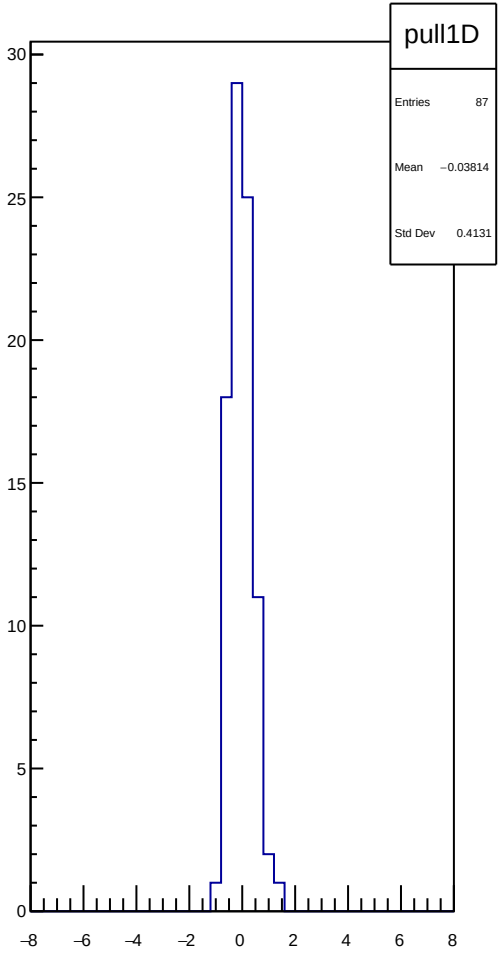

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 20.65 / 86
p0 49.39 ± 7.722
pull
Entries 87
Mean 131.7
Std Dev 0

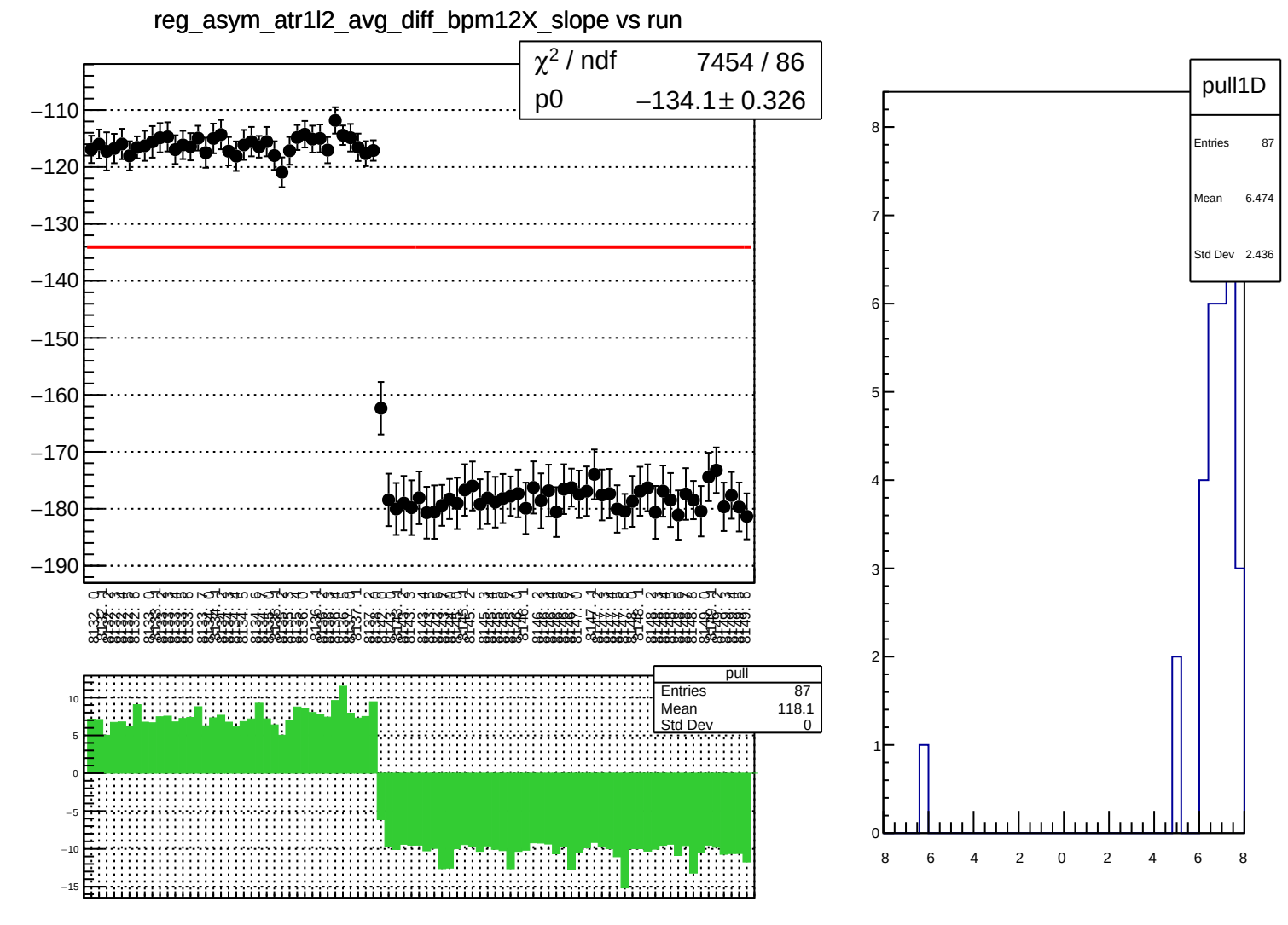

pull1D
Entries 87
Mean 0.07292
Std Dev 0.4817

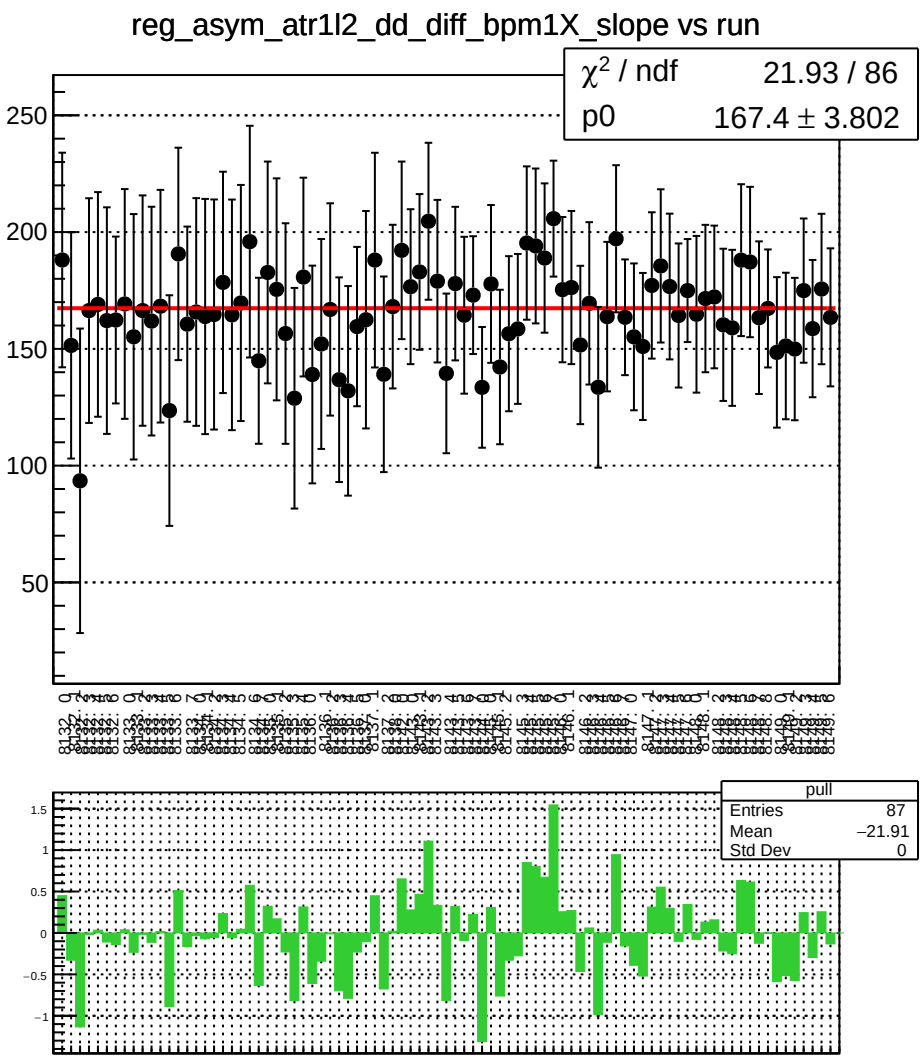

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 185.6 / 86
p0 167.1 ± 4.551
pull
Entries 87
Mean 258.9
Std Dev 0

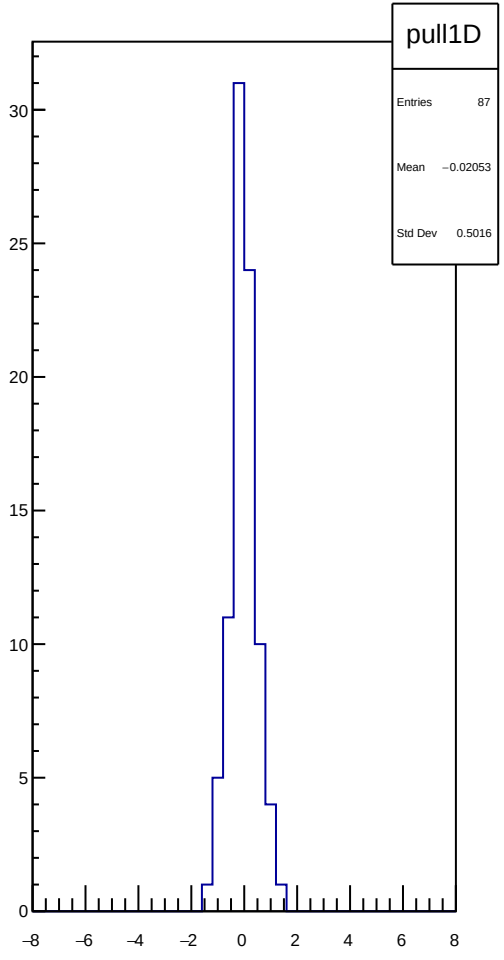

pull1D
Entries 87
Mean 0.1431
Std Dev 1.453

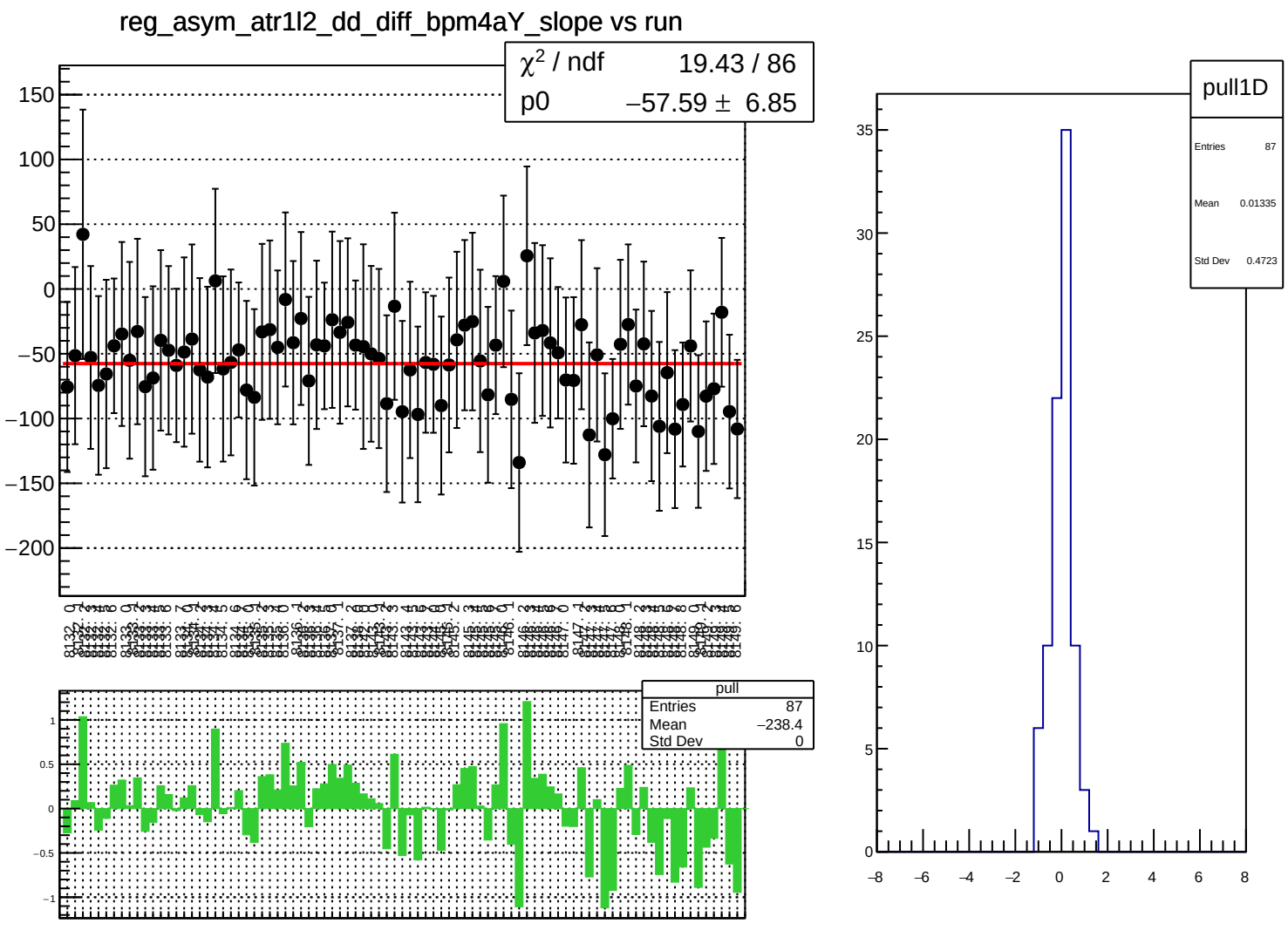

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 14.97 / 86
p0 1.806 ± 8.268
pull
Entries 87
Mean 130.1
Std Dev 0

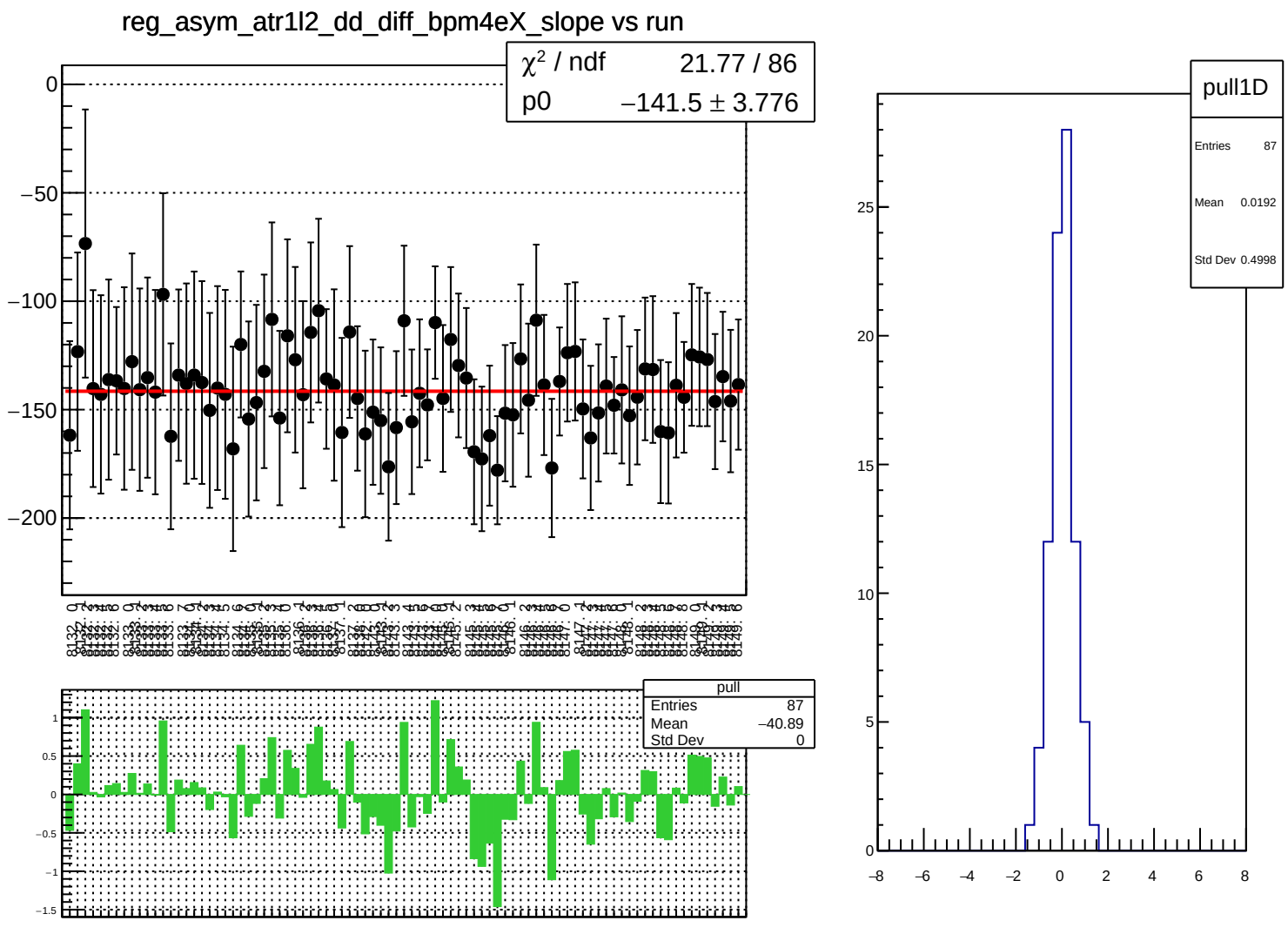

pull1D
Entries 87
Mean −0.03814
Std Dev 0.4131

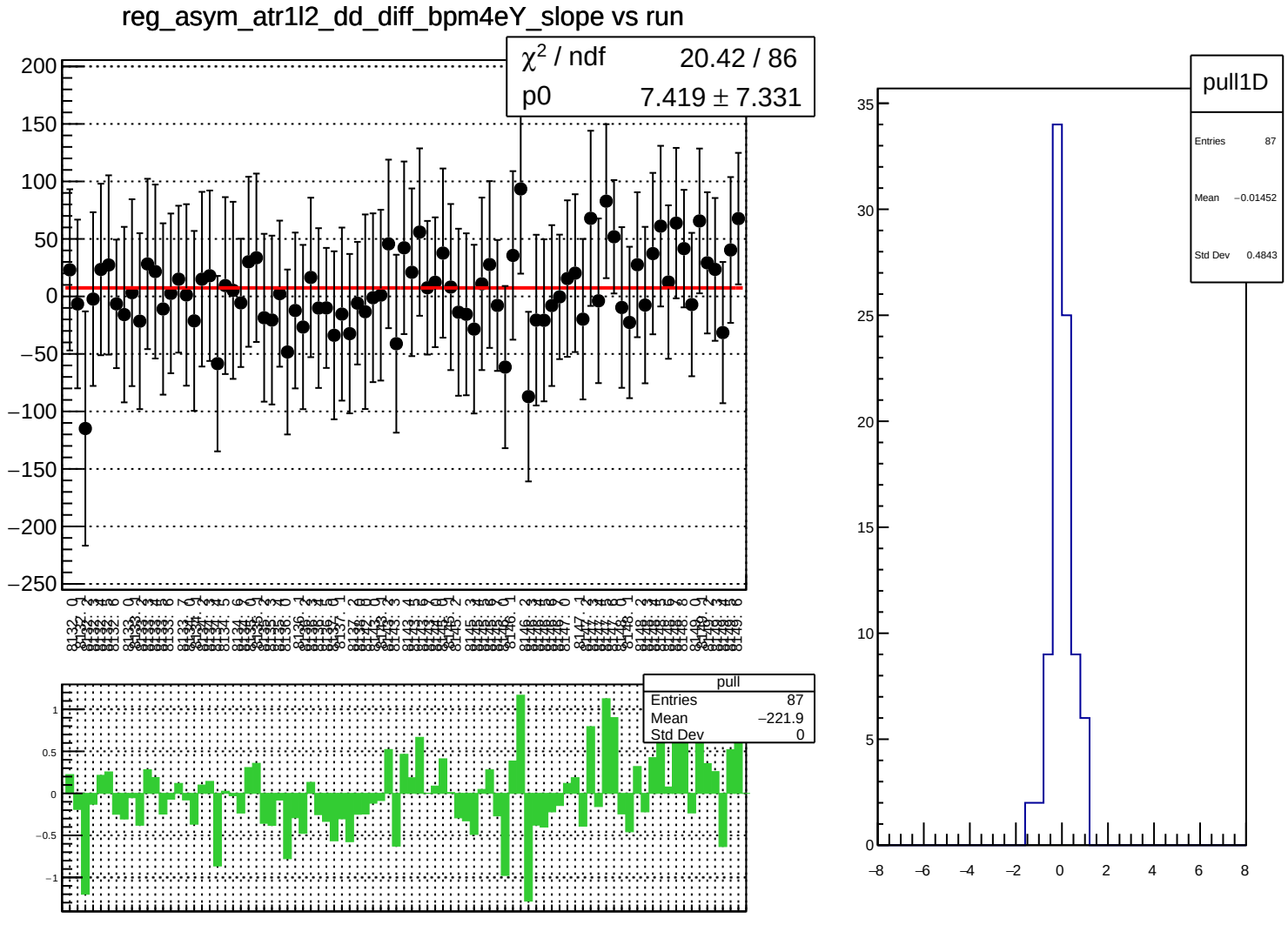

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 7454 / 86
p0 −134.1± 0.326
−110
−120
−130
−140
−150
−160
−170
−180
−190
pull
Entries 87
Mean 118.1
Std Dev 0
10
5
0
−5
−10
−15
pull1D
Entries 87
Mean 6.474
Std Dev 2.436
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

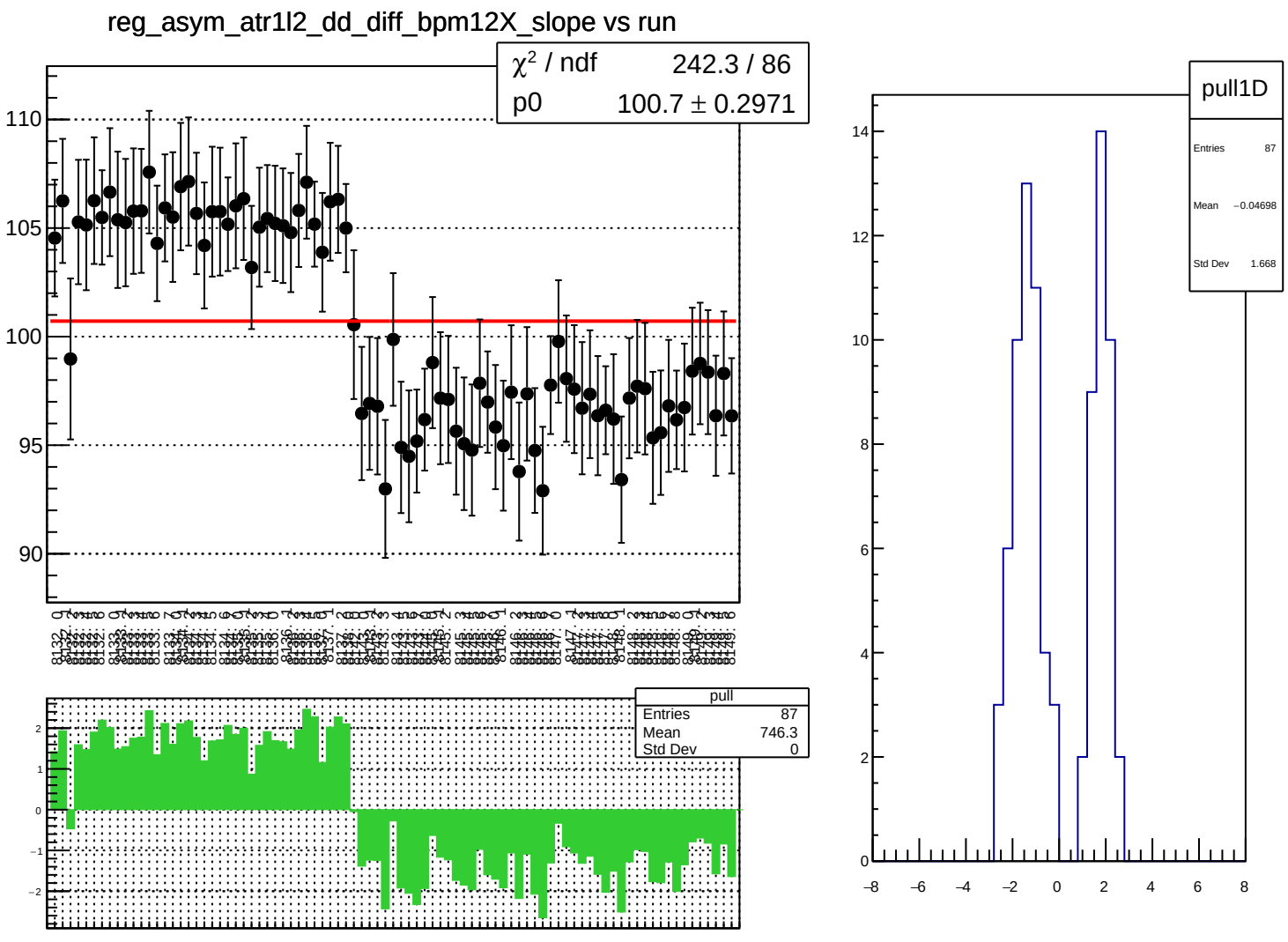

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ^2 / ndf 21.93 / 86
p0 167.4 ± 3.802
250
200
150
100
50
pull
Entries 87
Mean −21.91
Std Dev 0
1.5
1
0.5
0
−0.5
−1

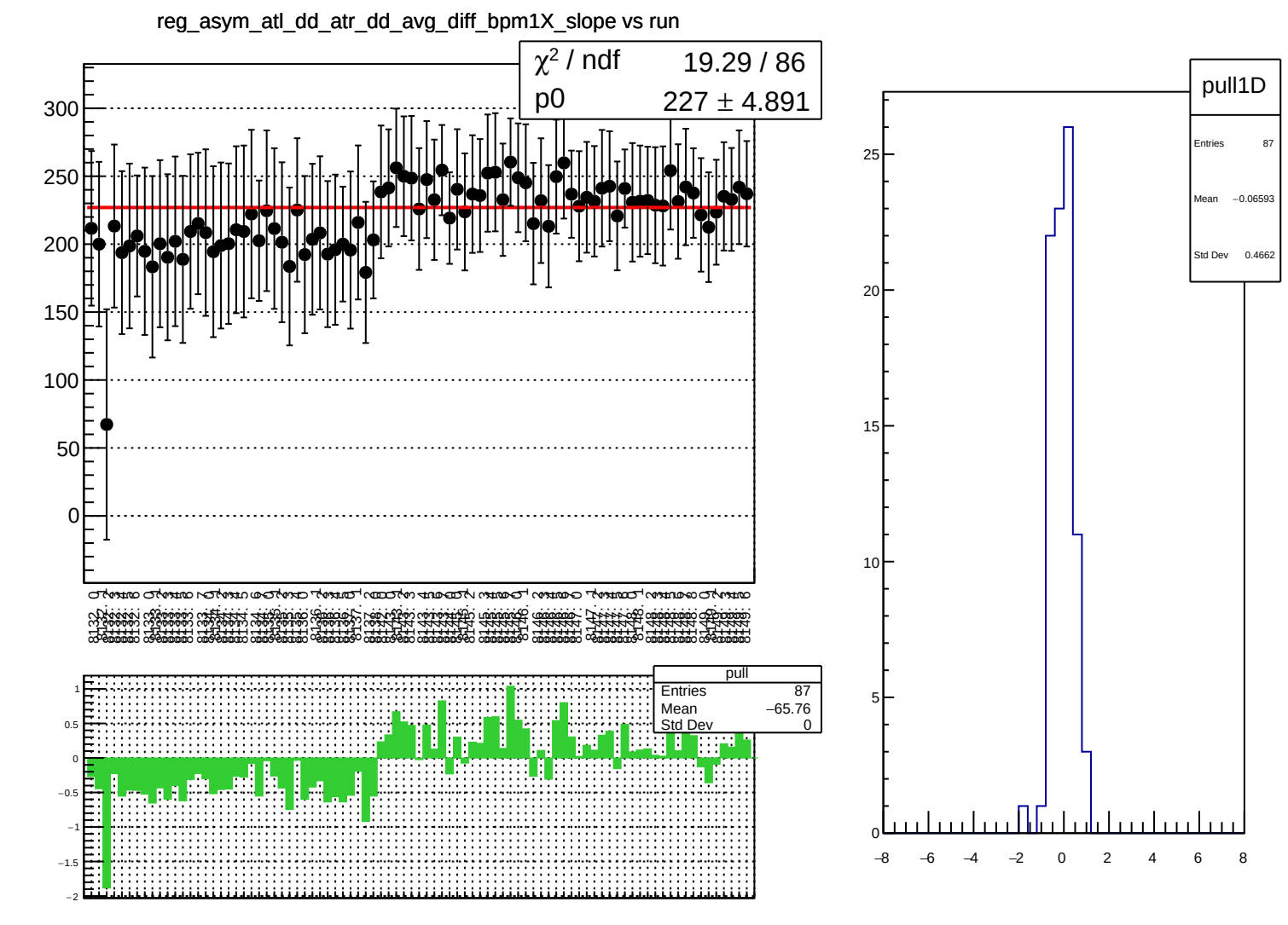

pull1D
Entries 87
Mean −0.02053
Std Dev 0.5016
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

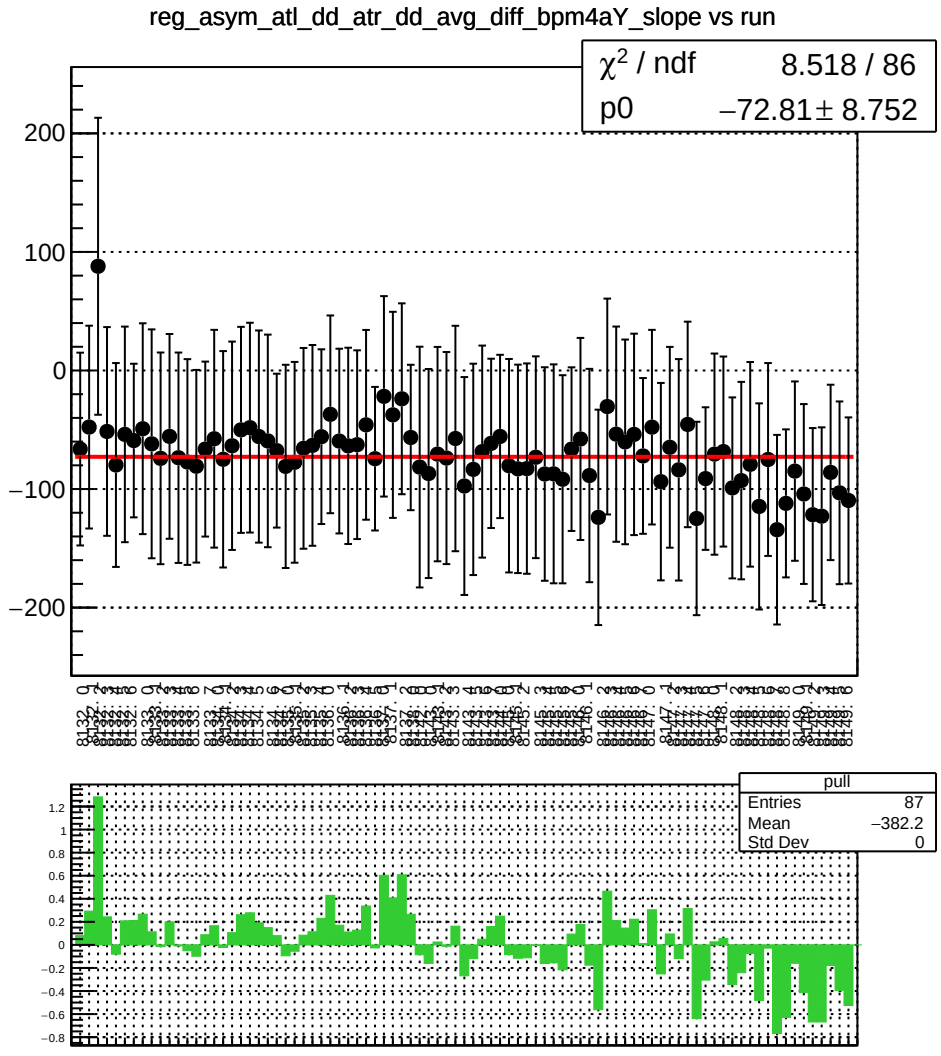

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 19.43 / 86
p0 −57.59 ± 6.85
pull
Entries 87
Mean −238.4
Std Dev 0
pull1D
Entries 87
Mean 0.01335
Std Dev 0.4723

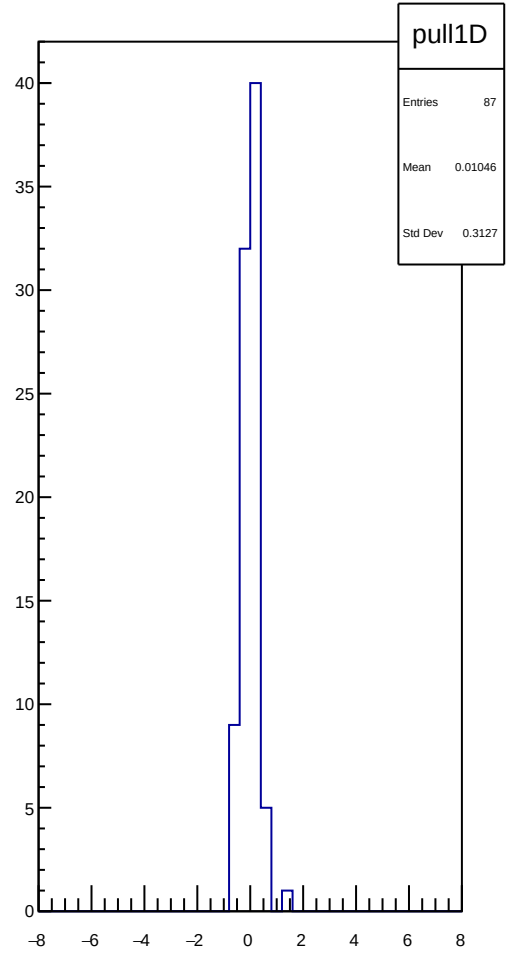

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 21.77 / 86
p0 −141.5 ± 3.776
pull
Entries 87
Mean −40.89
Std Dev 0
pull1D
Entries 87
Mean 0.0192
Std Dev 0.4998

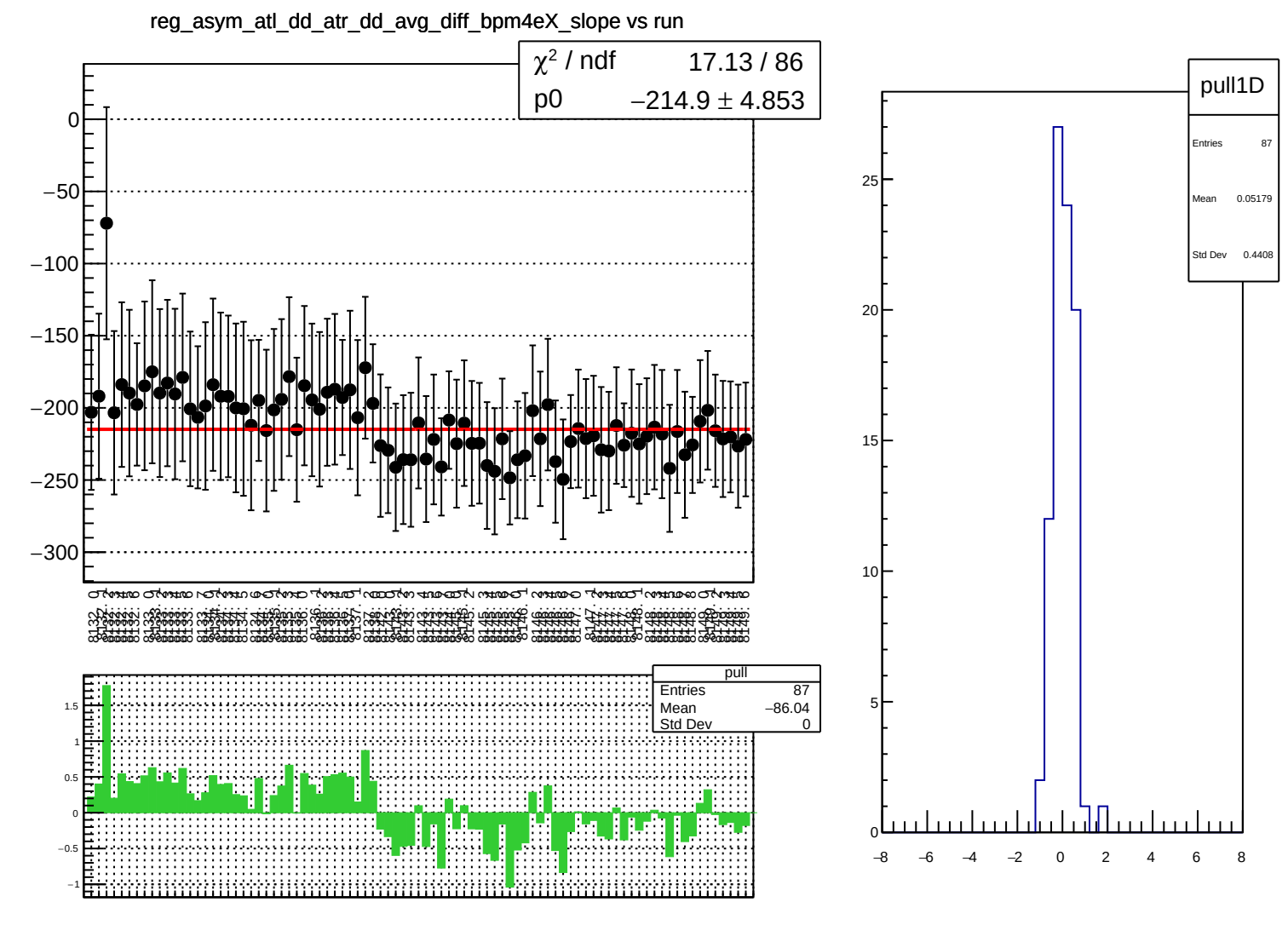

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 20.42 / 86
p0 7.419 ± 7.331
pull
Entries 87
Mean −221.9
Std Dev 0
pull1D
Entries 87
Mean −0.01452
Std Dev 0.4843

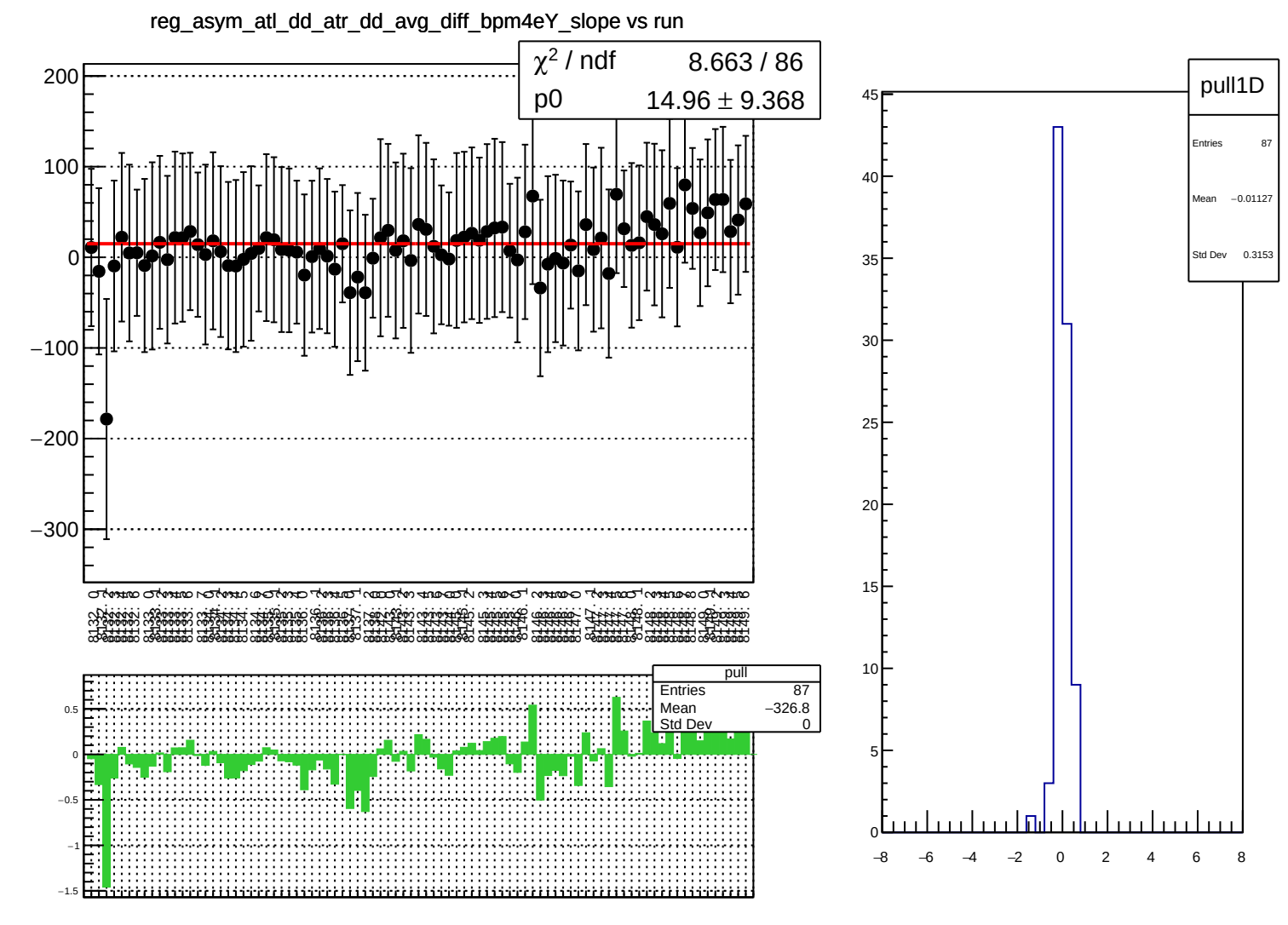

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 242.3 / 86
p0 100.7 ± 0.2971
110
105
100
95
90
pull
Entries 87
Mean 746.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.04698
Std Dev 1.668
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

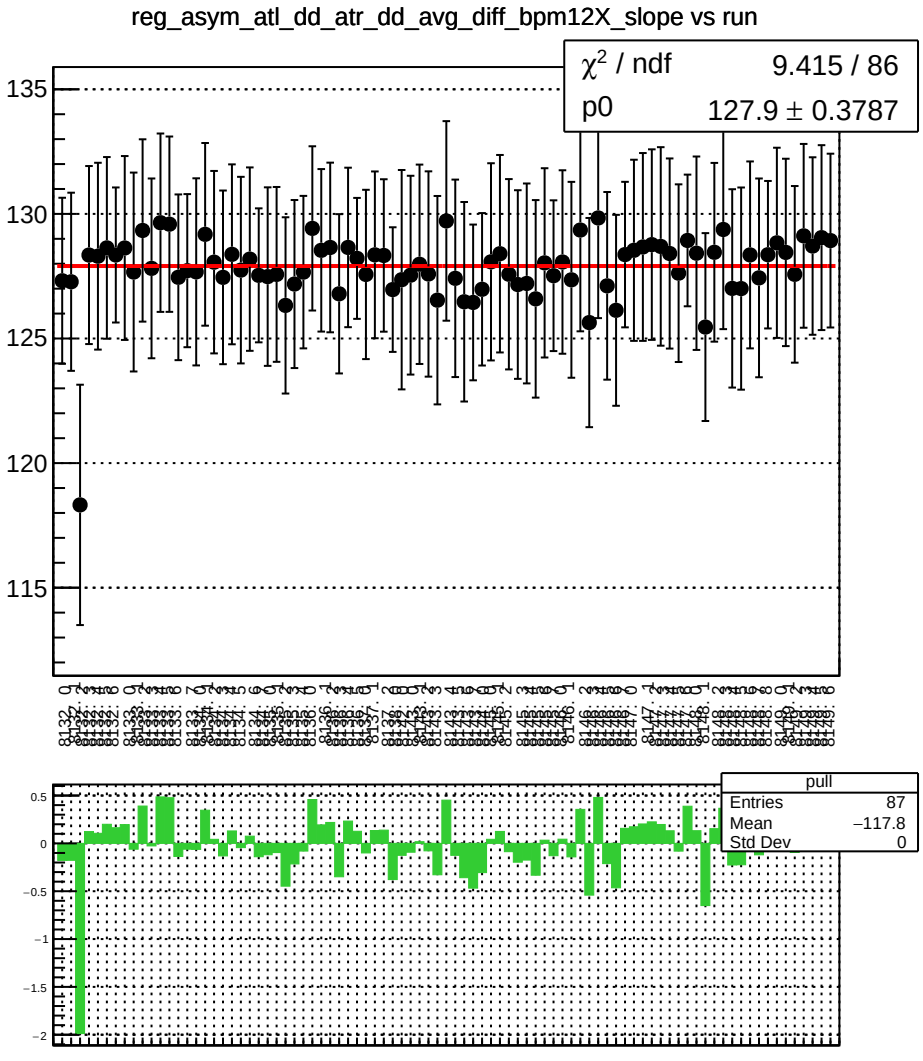

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 19.29 / 86
p0 227 ± 4.891
300
250
200
150
100
50
0
pull
Entries 87
Mean −65.76
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 87
Mean −0.06593
Std Dev 0.4662
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

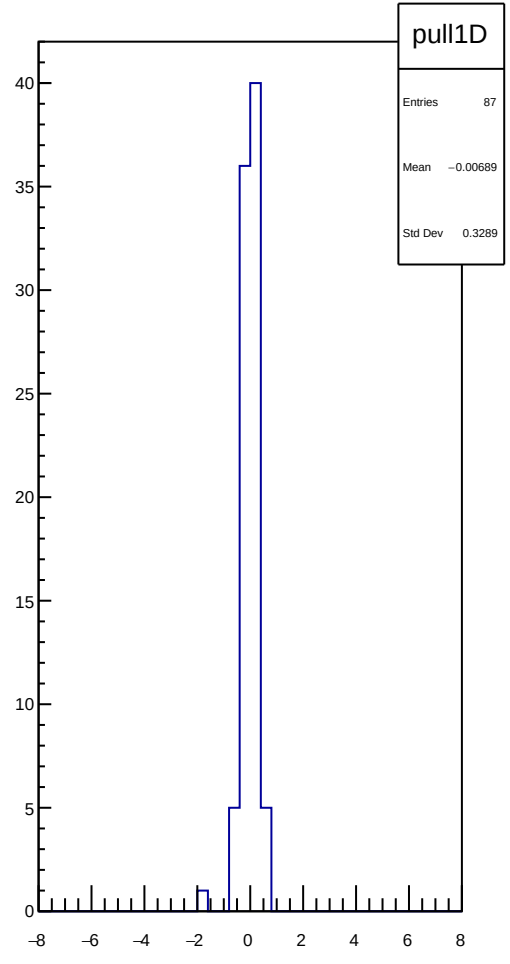

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.518 / 86
p0 −72.81 ± 8.752
200
100
0
−100
−200
pull
Entries 87
Mean −382.2
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

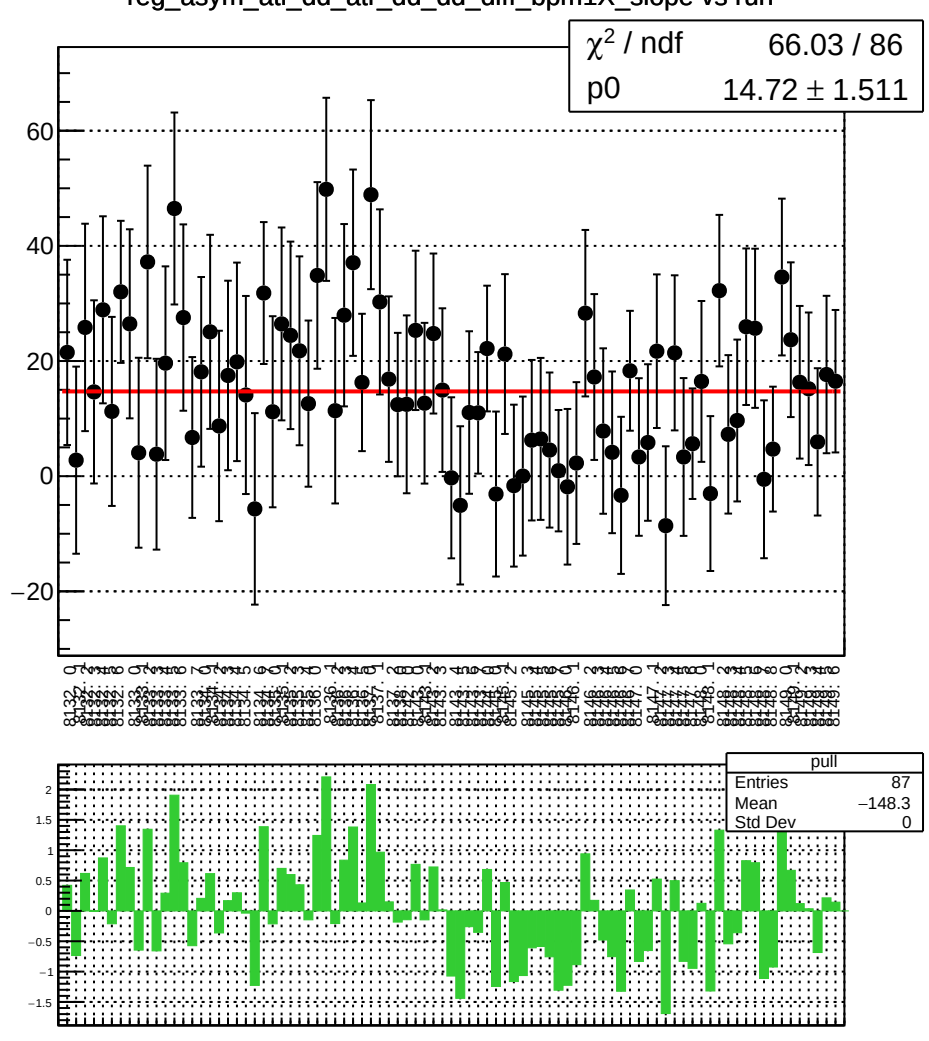

pull1D
Entries 87
Mean 0.01046
Std Dev 0.3127
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

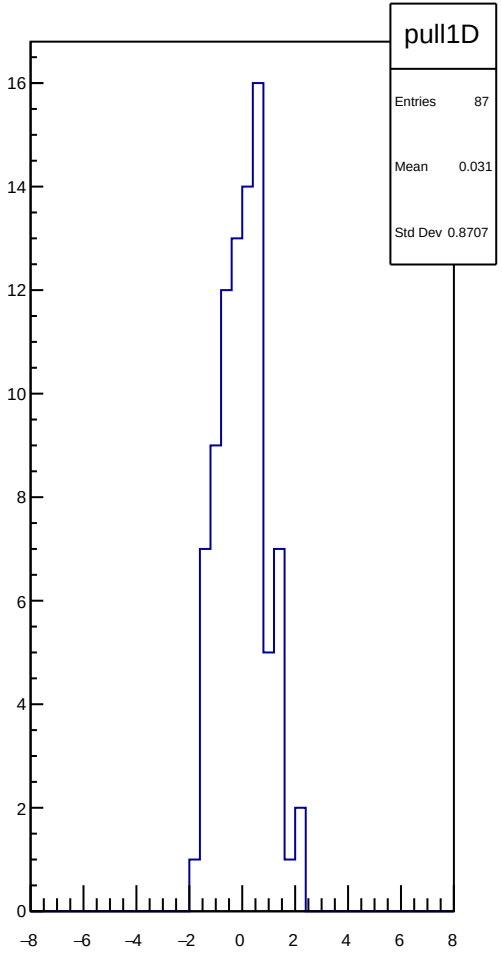

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 17.13 / 86
p0 −214.9 ± 4.853
pull
Entries 87
Mean −86.04
Std Dev 0
pull1D
Entries 87
Mean 0.05179
Std Dev 0.4408

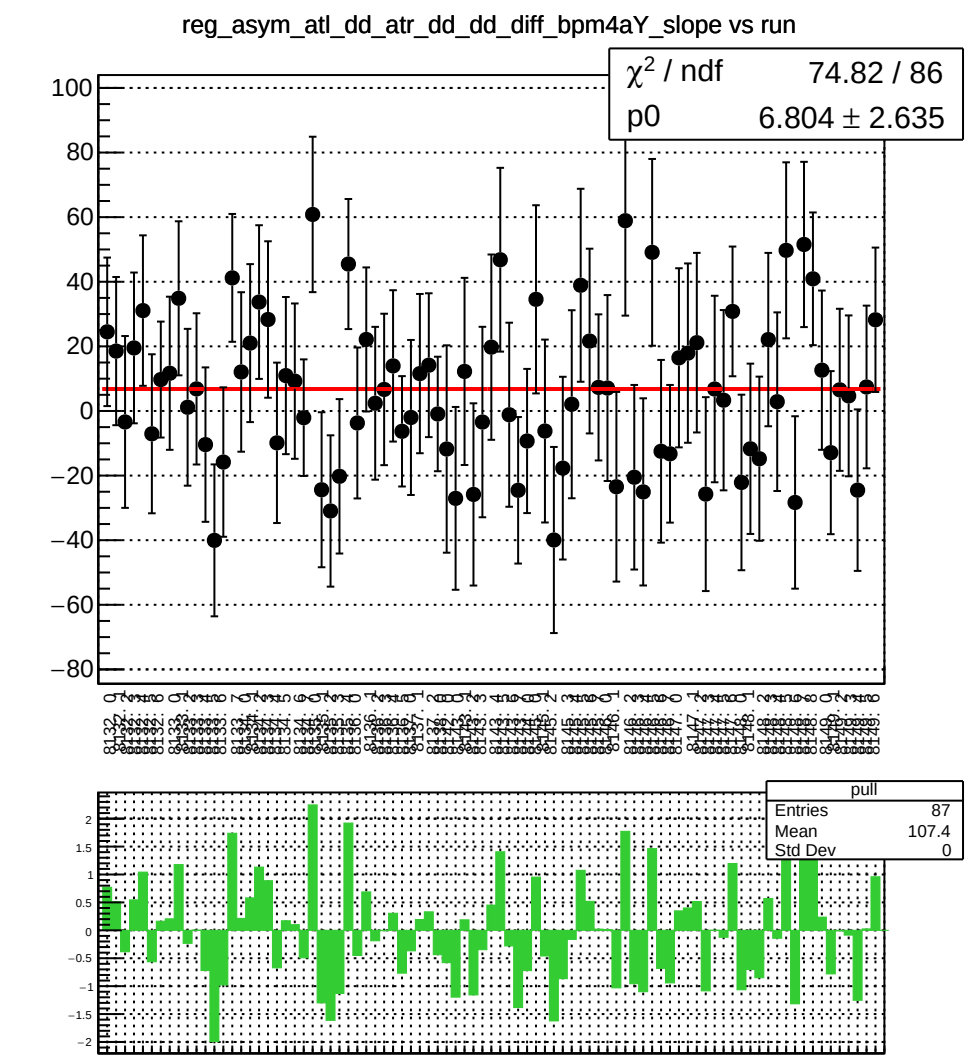

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.663 / 86
p0 14.96 ± 9.368
pull
Entries 87
Mean −326.8
Std Dev 0
pull1D
Entries 87
Mean −0.01127
Std Dev 0.3153

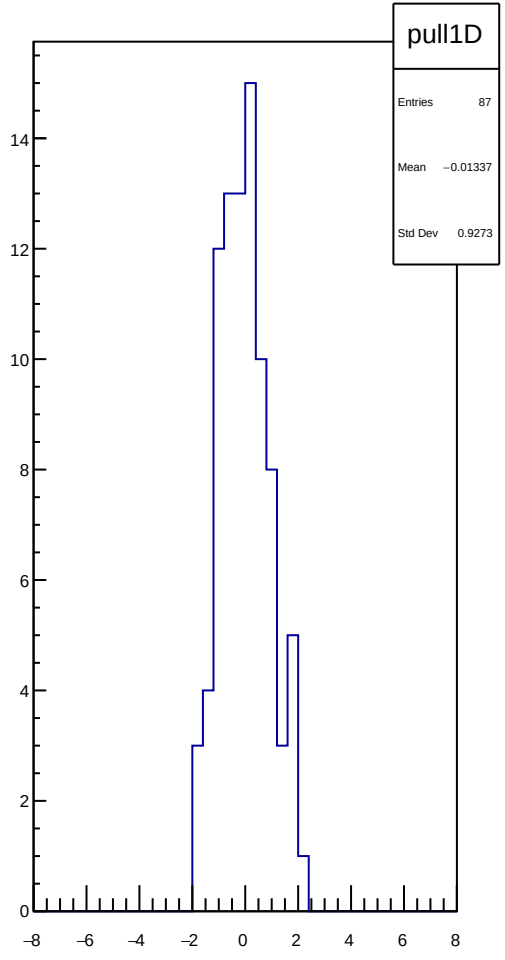

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 9.415 / 86
p0 127.9 ± 0.3787
pull
Entries 87
Mean −117.8
Std Dev 0

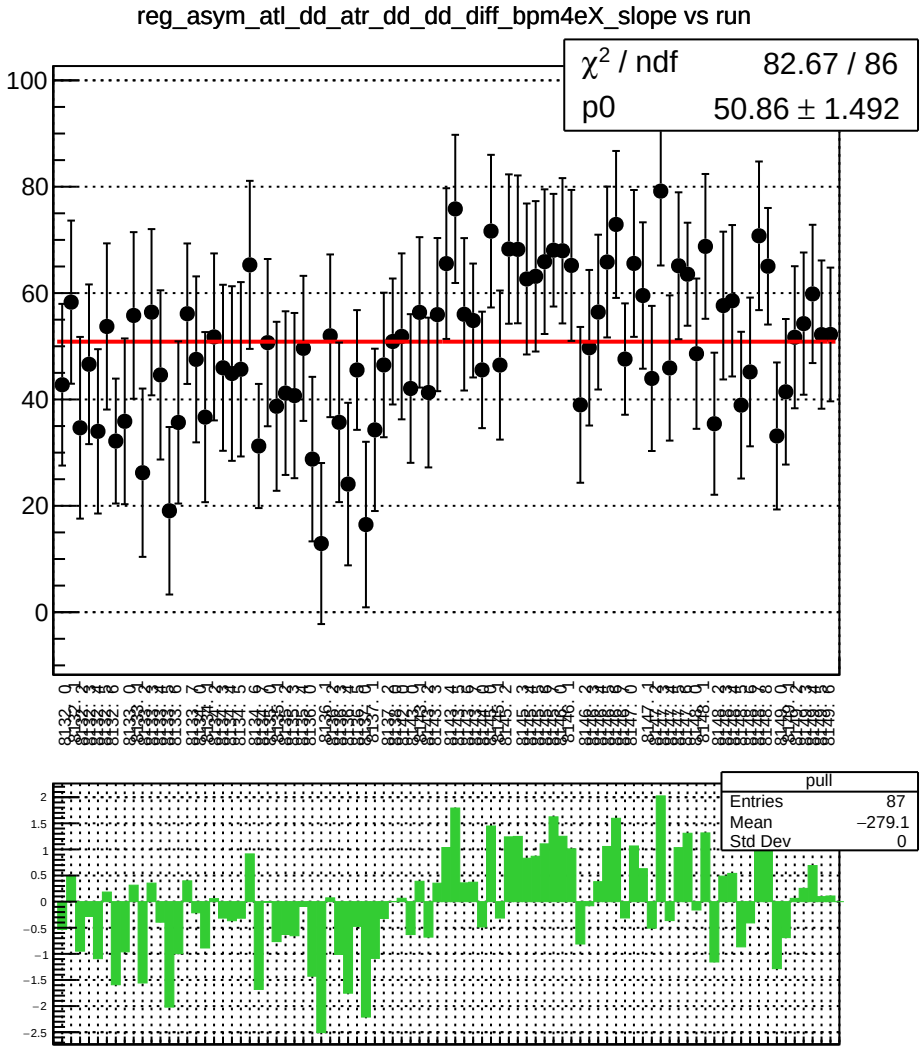

pull1D
Entries 87
Mean −0.00689
Std Dev 0.3289

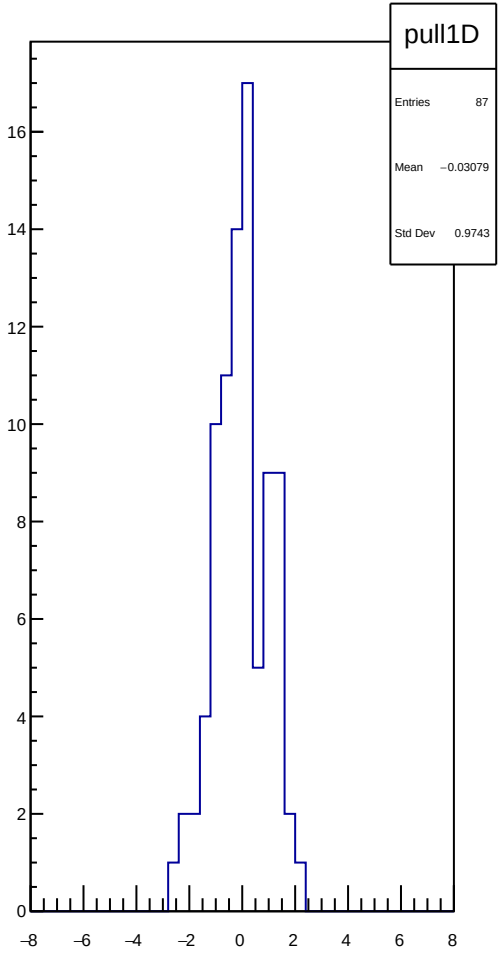

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 66.03 / 86
p0 14.72 ± 1.511
pull
Entries 87
Mean −148.3
Std Dev 0

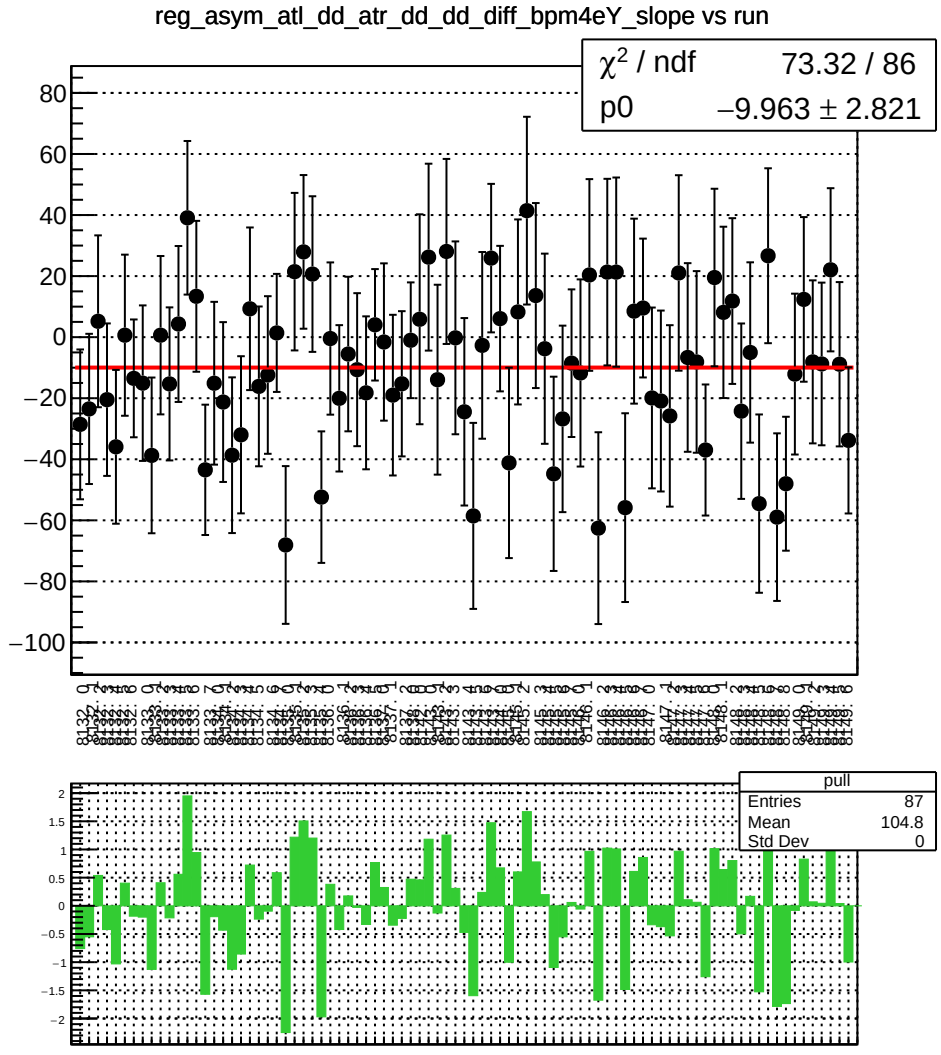

pull1D
Entries 87
Mean 0.031
Std Dev 0.8707

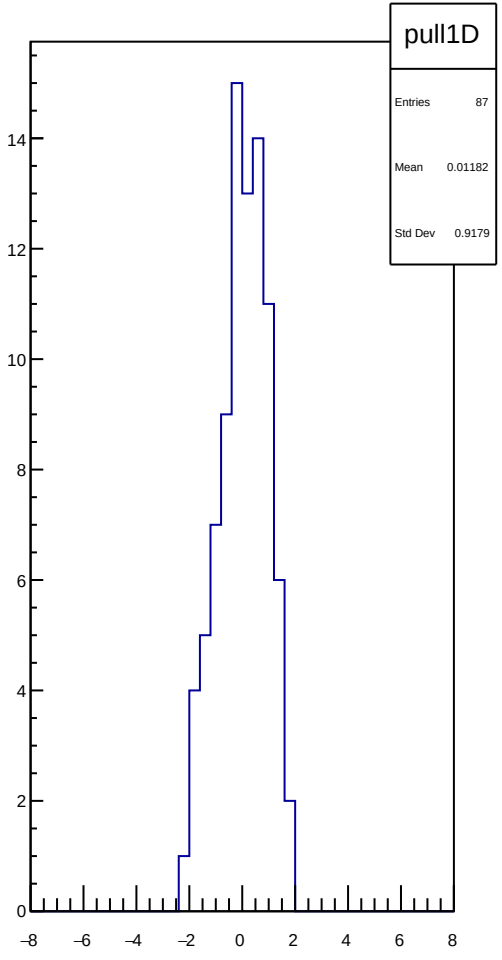

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 74.82 / 86
p0 6.804 ± 2.635
pull
Entries 87
Mean 107.4
Std Dev 0

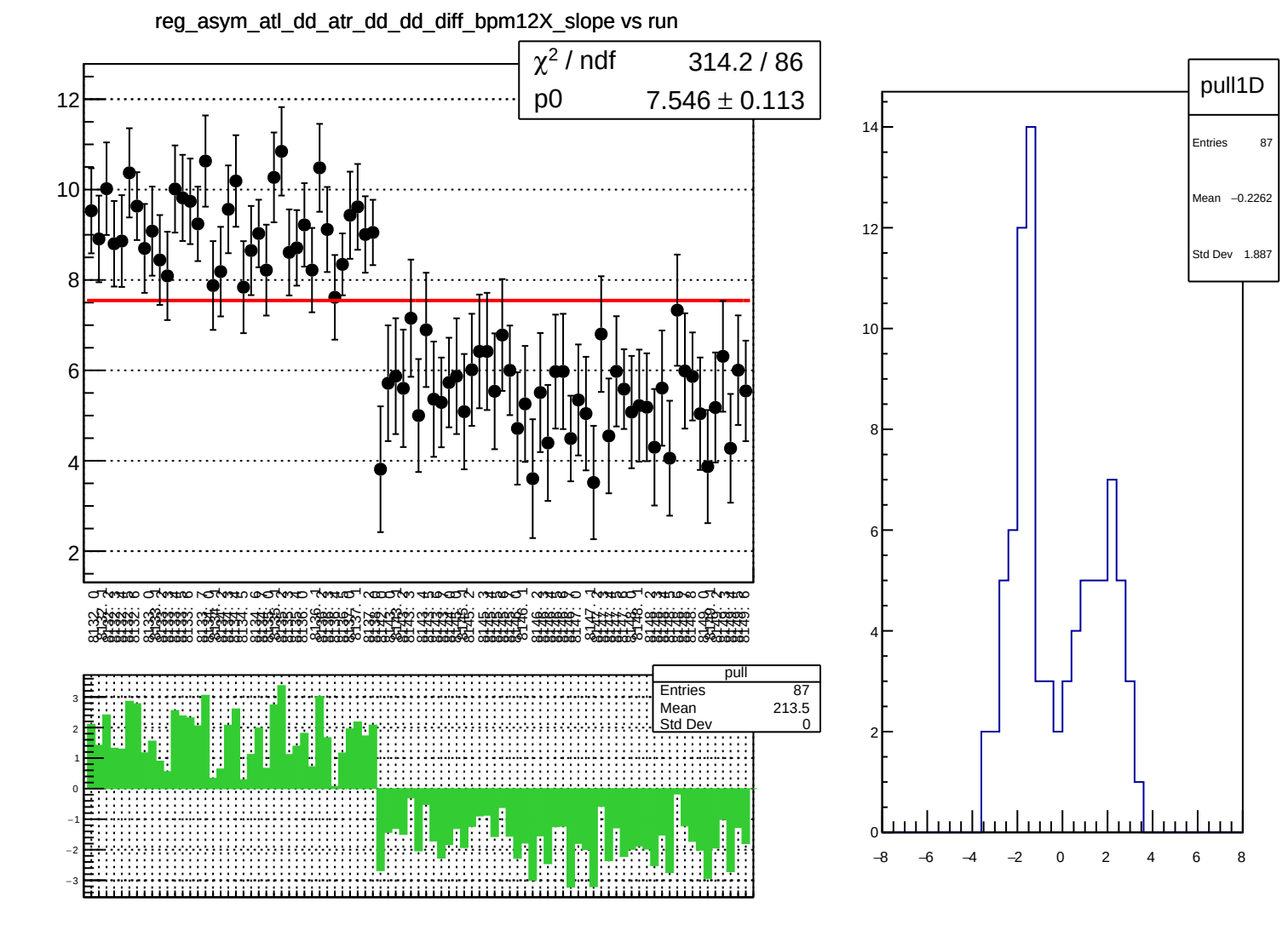

pull1D
Entries 87
Mean −0.01337
Std Dev 0.9273

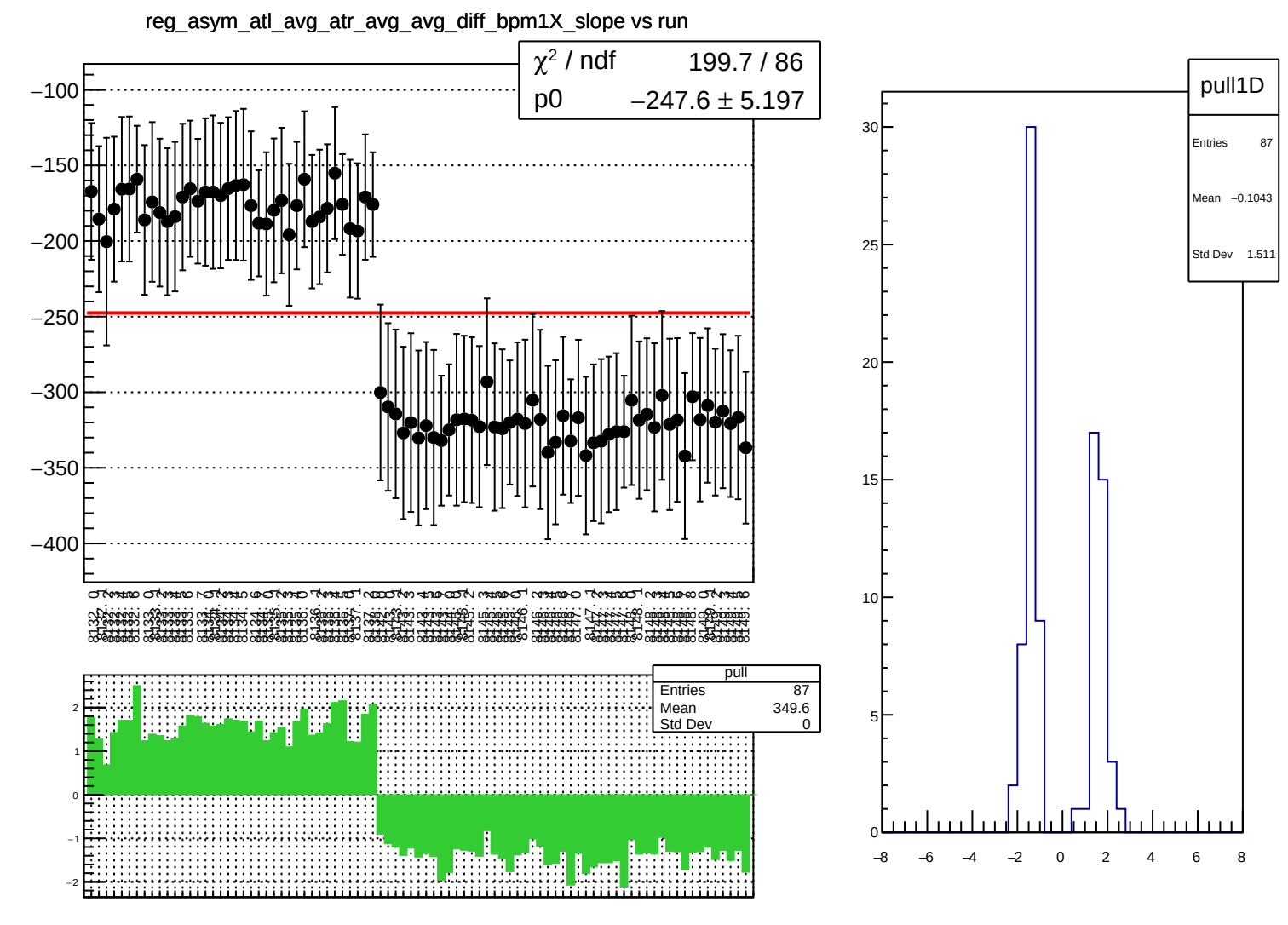

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 82.67 / 86
p0 50.86 ± 1.492
pull
Entries 87
Mean −279.1
Std Dev 0

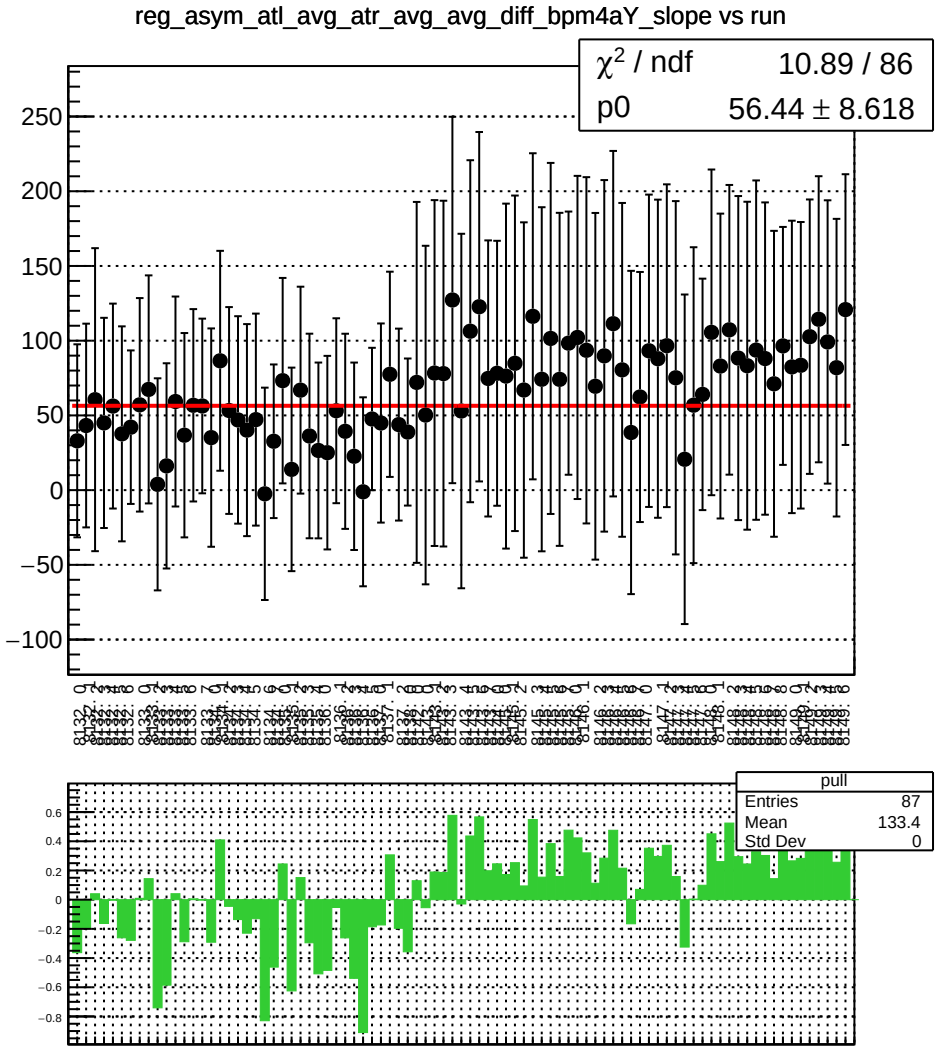

pull1D
Entries 87
Mean −0.03079
Std Dev 0.9743

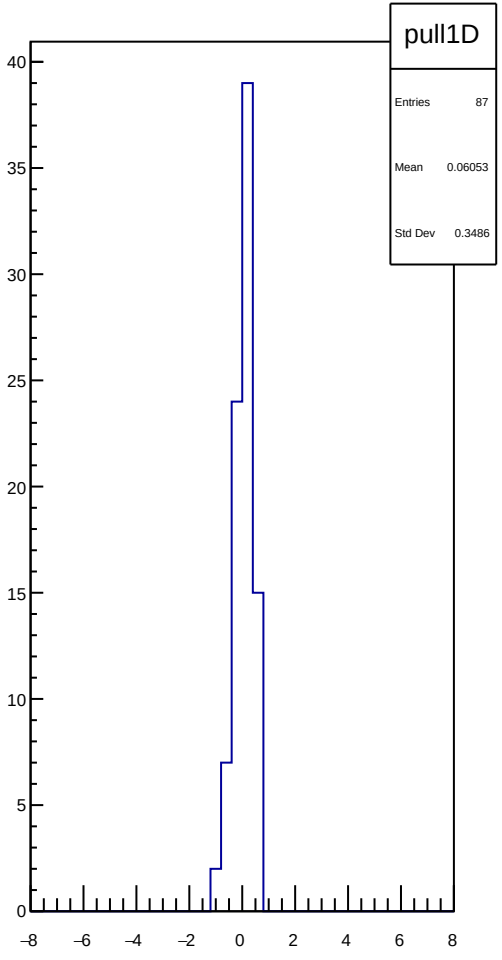

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 73.32 / 86
p0 −9.963 ± 2.821
pull
Entries 87
Mean 104.8
Std Dev 0

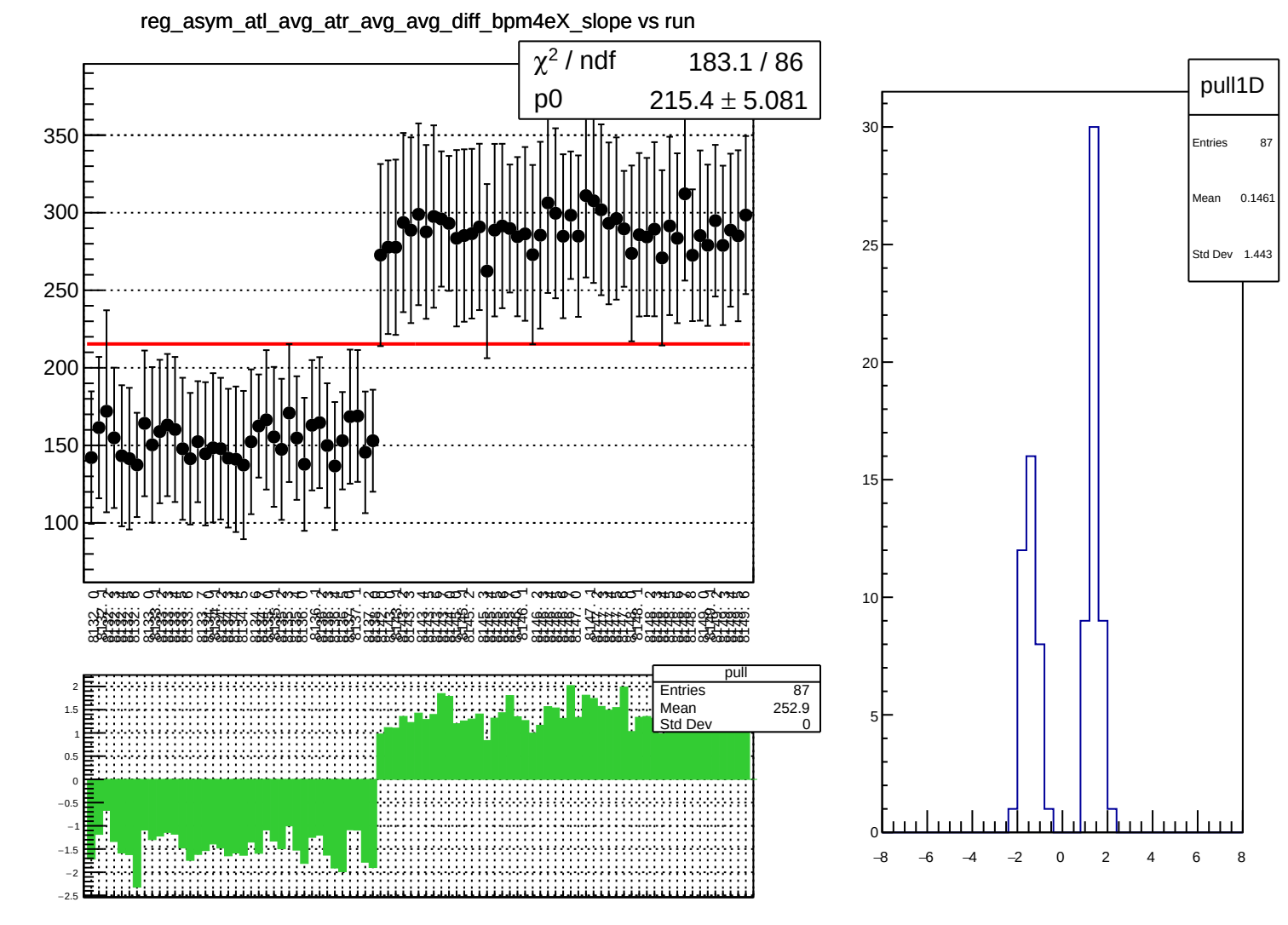

pull1D
Entries 87
Mean 0.01182
Std Dev 0.9179

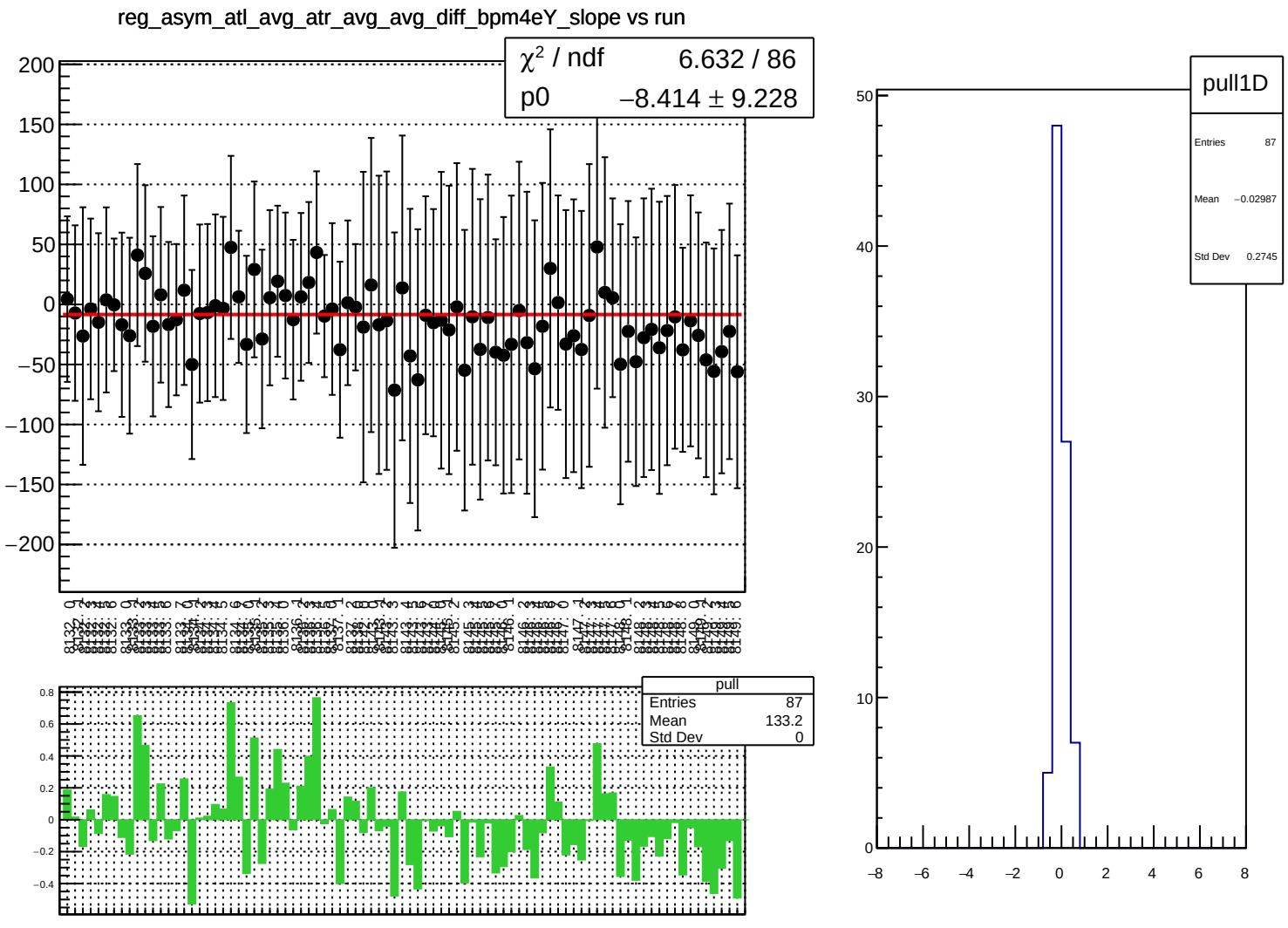

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 314.2 / 86
p0 7.546 ± 0.113
pull
Entries 87
Mean 213.5
Std Dev 0
pull1D
Entries 87
Mean −0.2262
Std Dev 1.887

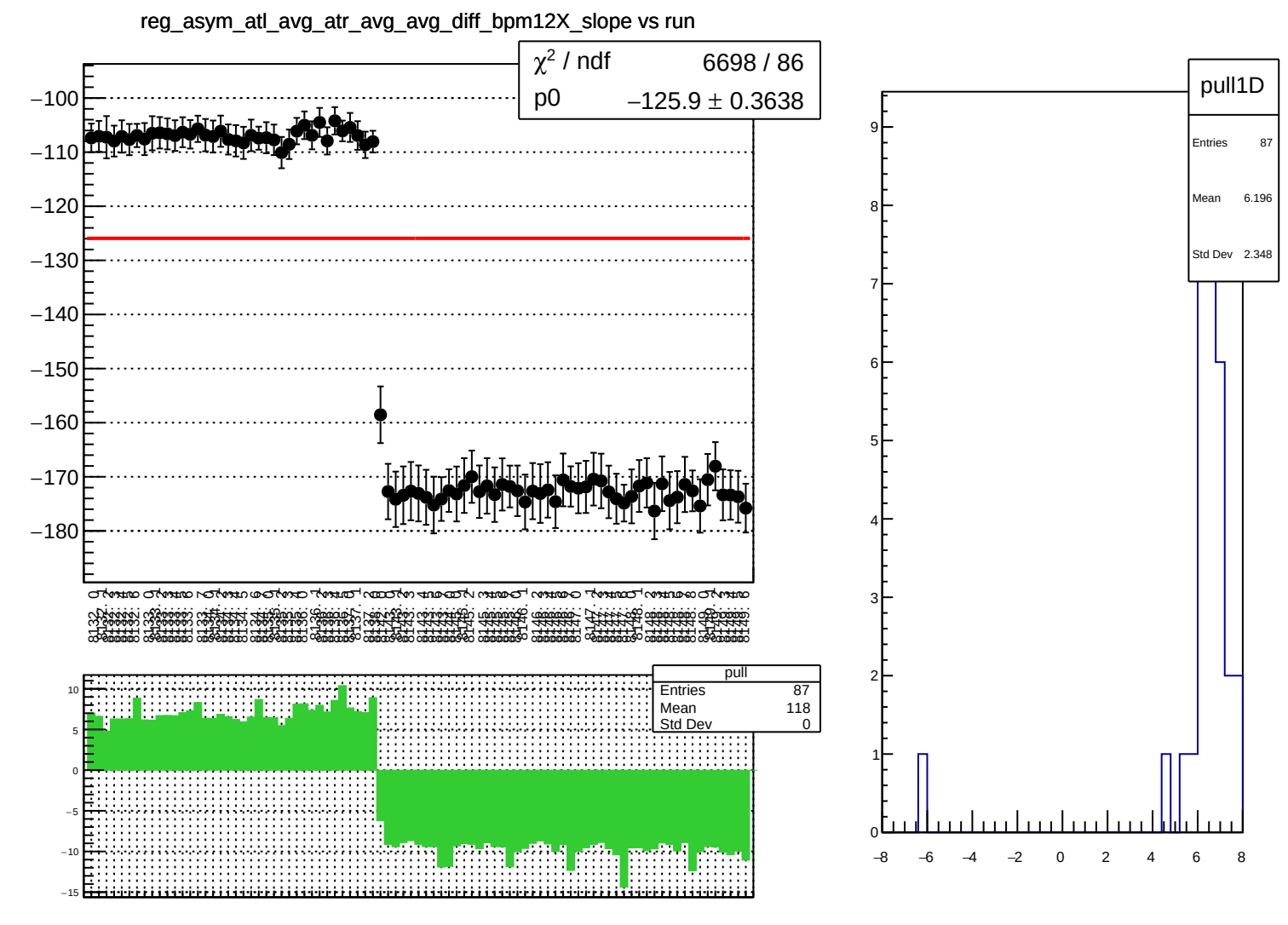

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 199.7 / 86
p0 −247.6 ± 5.197
pull
Entries 87
Mean 349.6
Std Dev 0
pull1D
Entries 87
Mean −0.1043
Std Dev 1.511

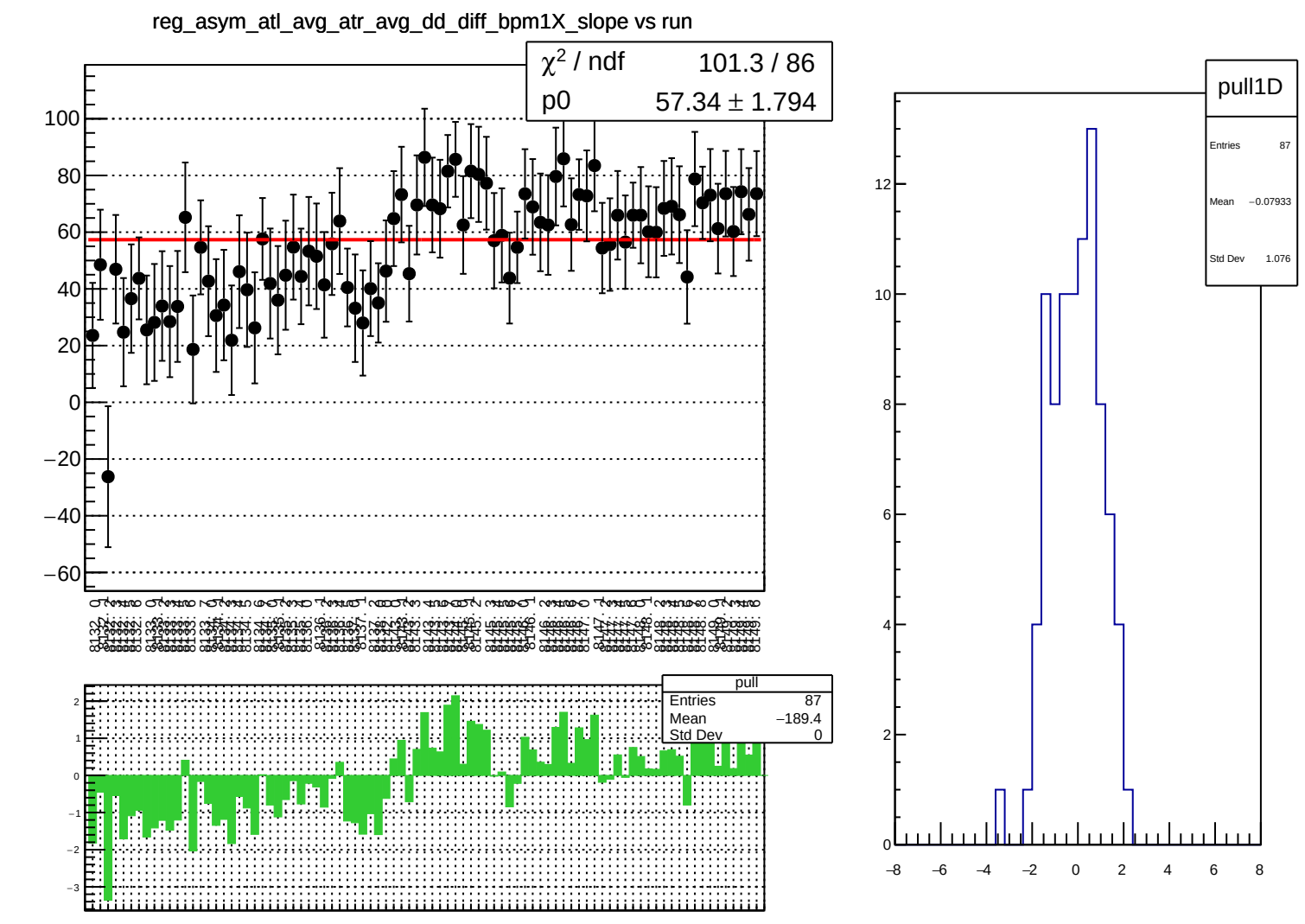

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 10.89 / 86
p0 56.44 ± 8.618
pull
Entries 87
Mean 133.4
Std Dev 0

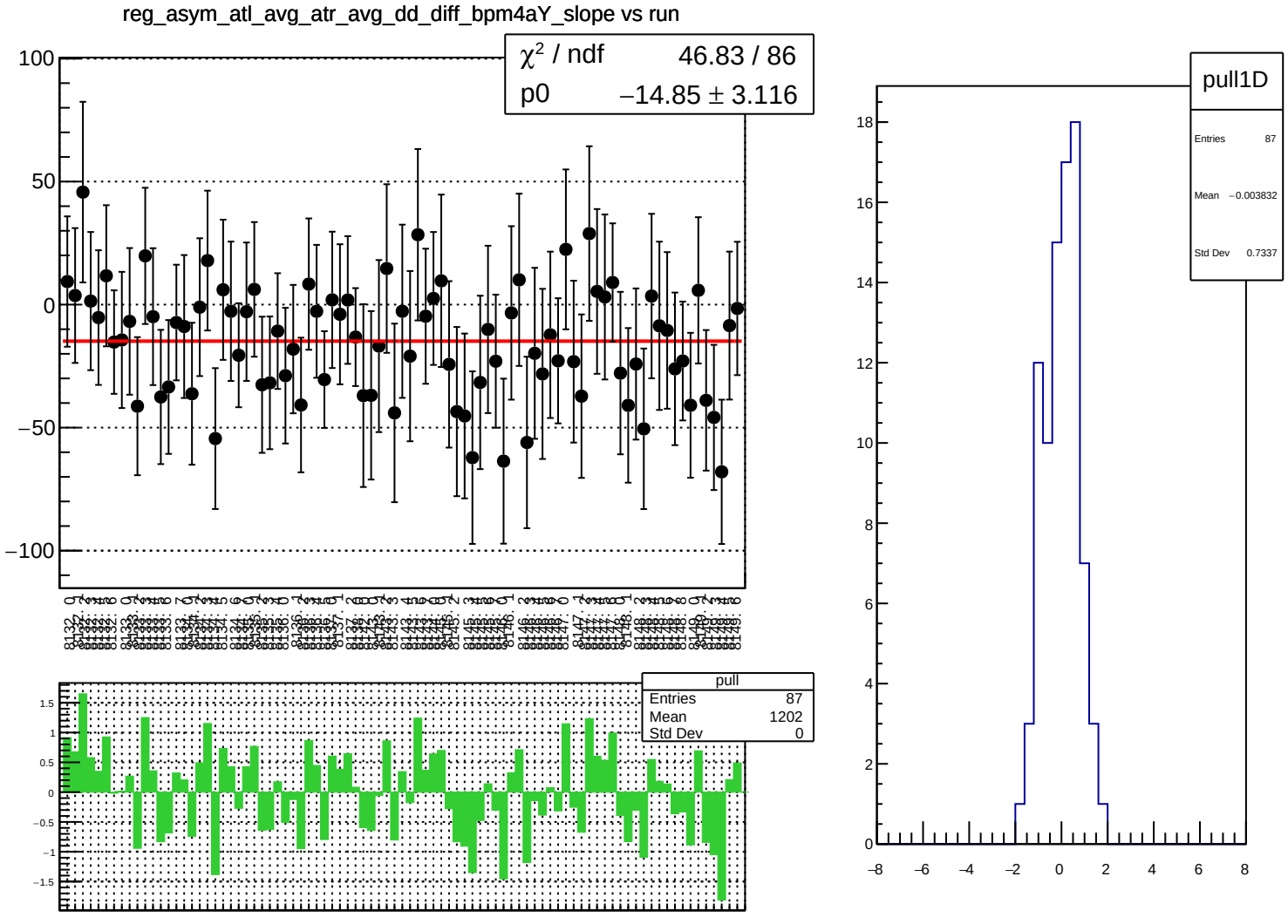

pull1D
Entries 87
Mean 0.06053
Std Dev 0.3486

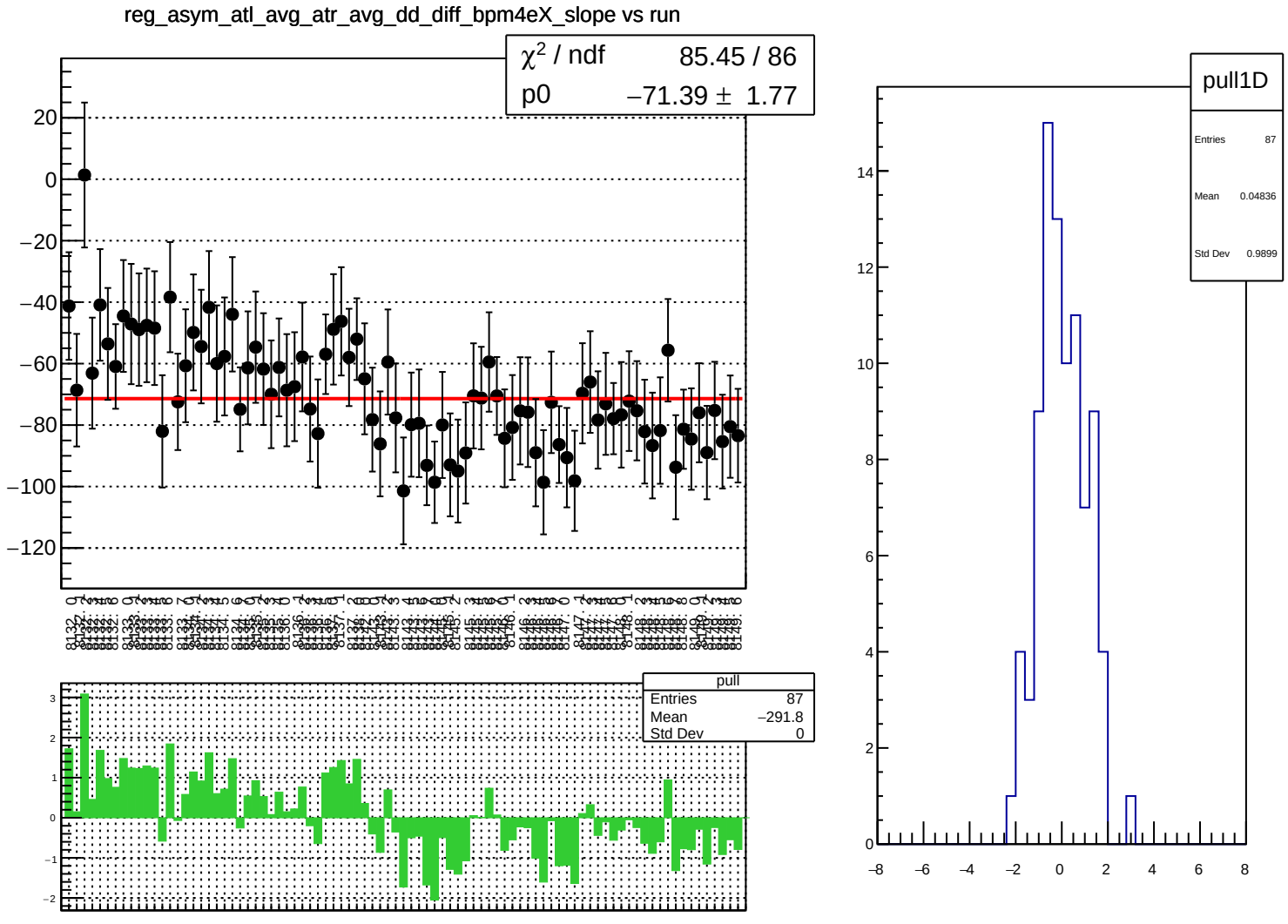

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 183.1 / 86
p0 215.4 ± 5.081
pull
Entries 87
Mean 252.9
Std Dev 0
pull1D
Entries 87
Mean 0.1461
Std Dev 1.443

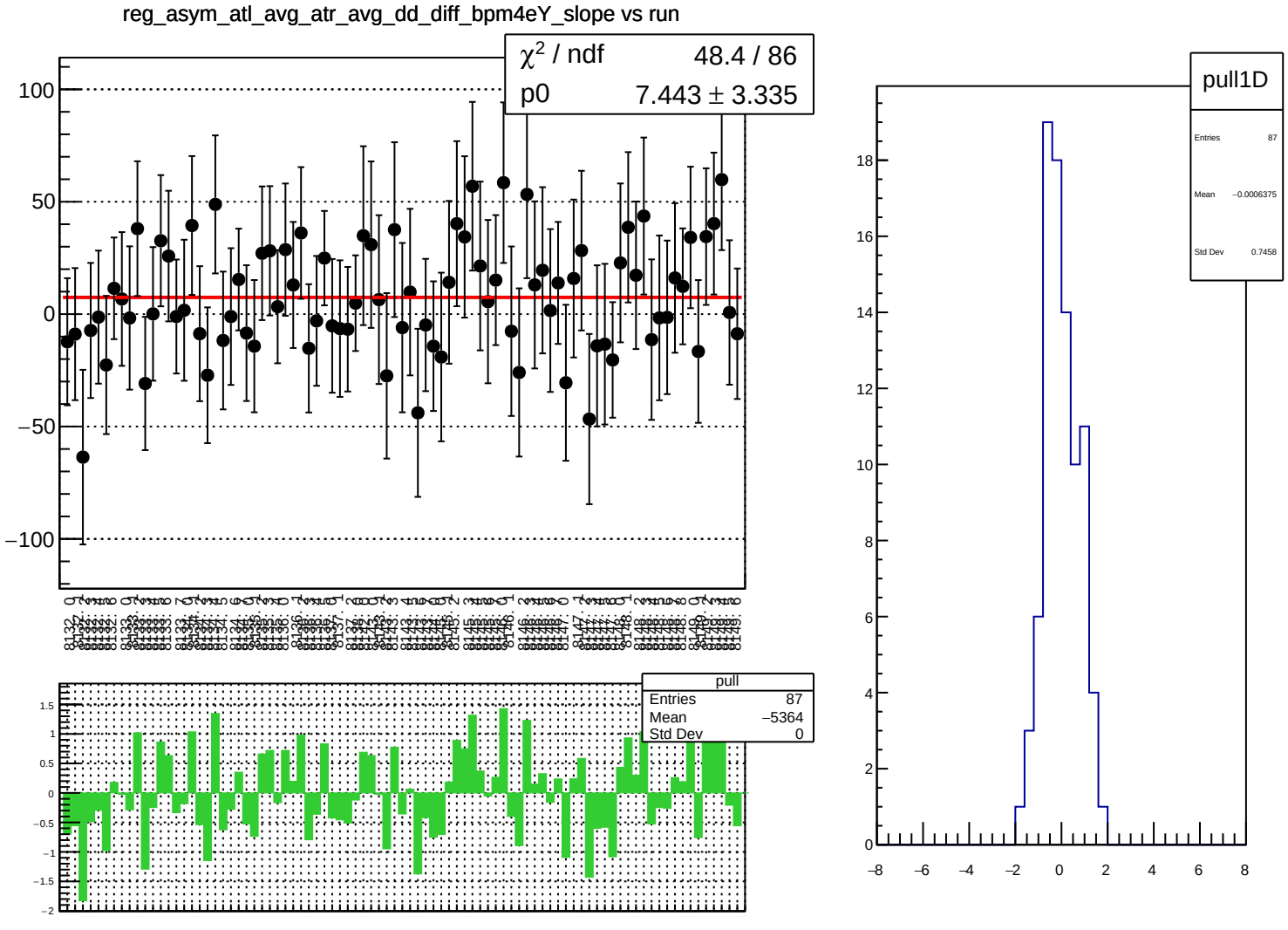

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.632 / 86
p0 −8.414 ± 9.228
pull
Entries 87
Mean 133.2
Std Dev 0
pull1D
Entries 87
Mean −0.02987
Std Dev 0.2745

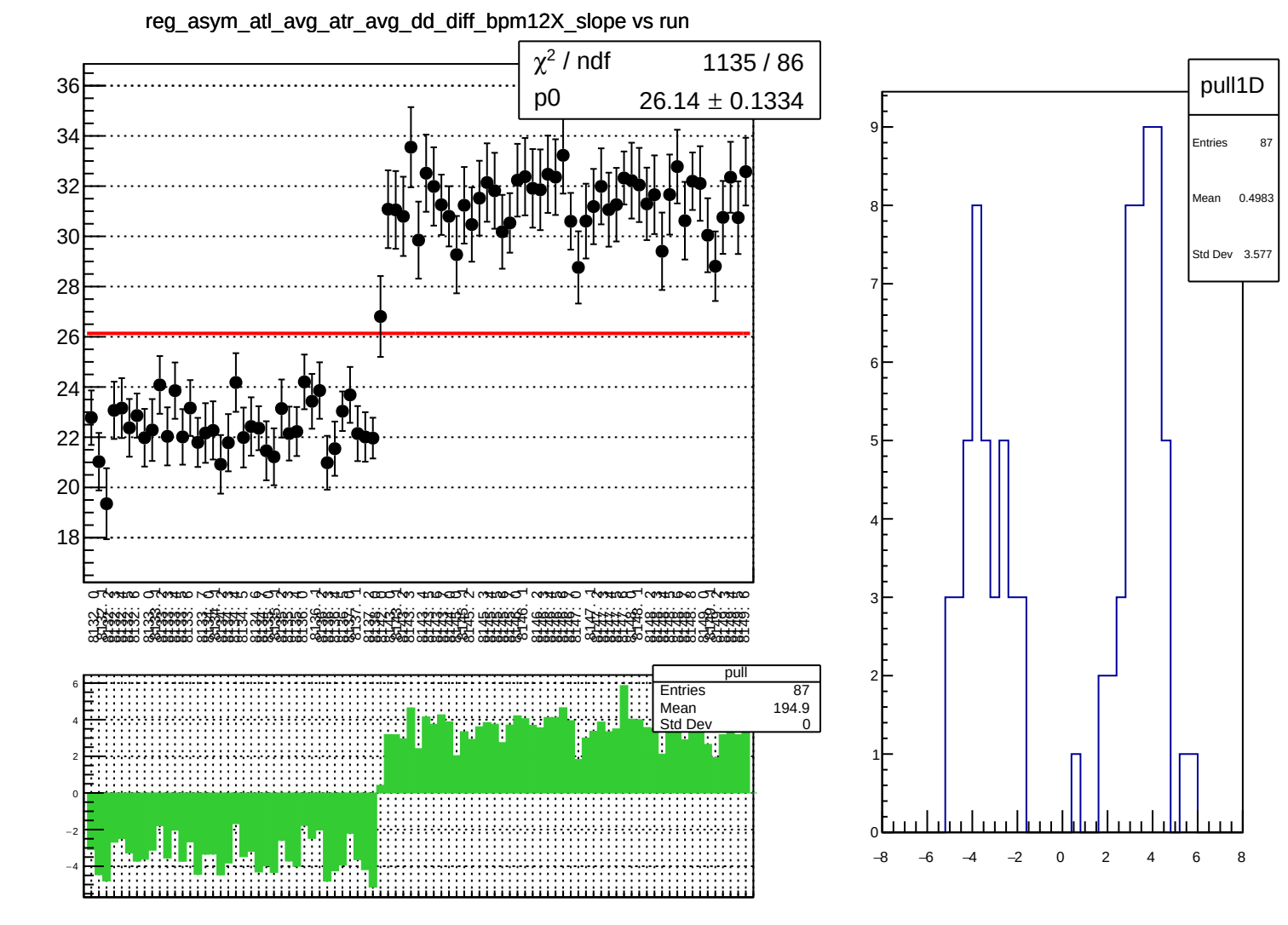

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 6698 / 86
p0 −125.9 ± 0.3638
pull
Entries 87
Mean 118
Std Dev 0
pull1D
Entries 87
Mean 6.196
Std Dev 2.348

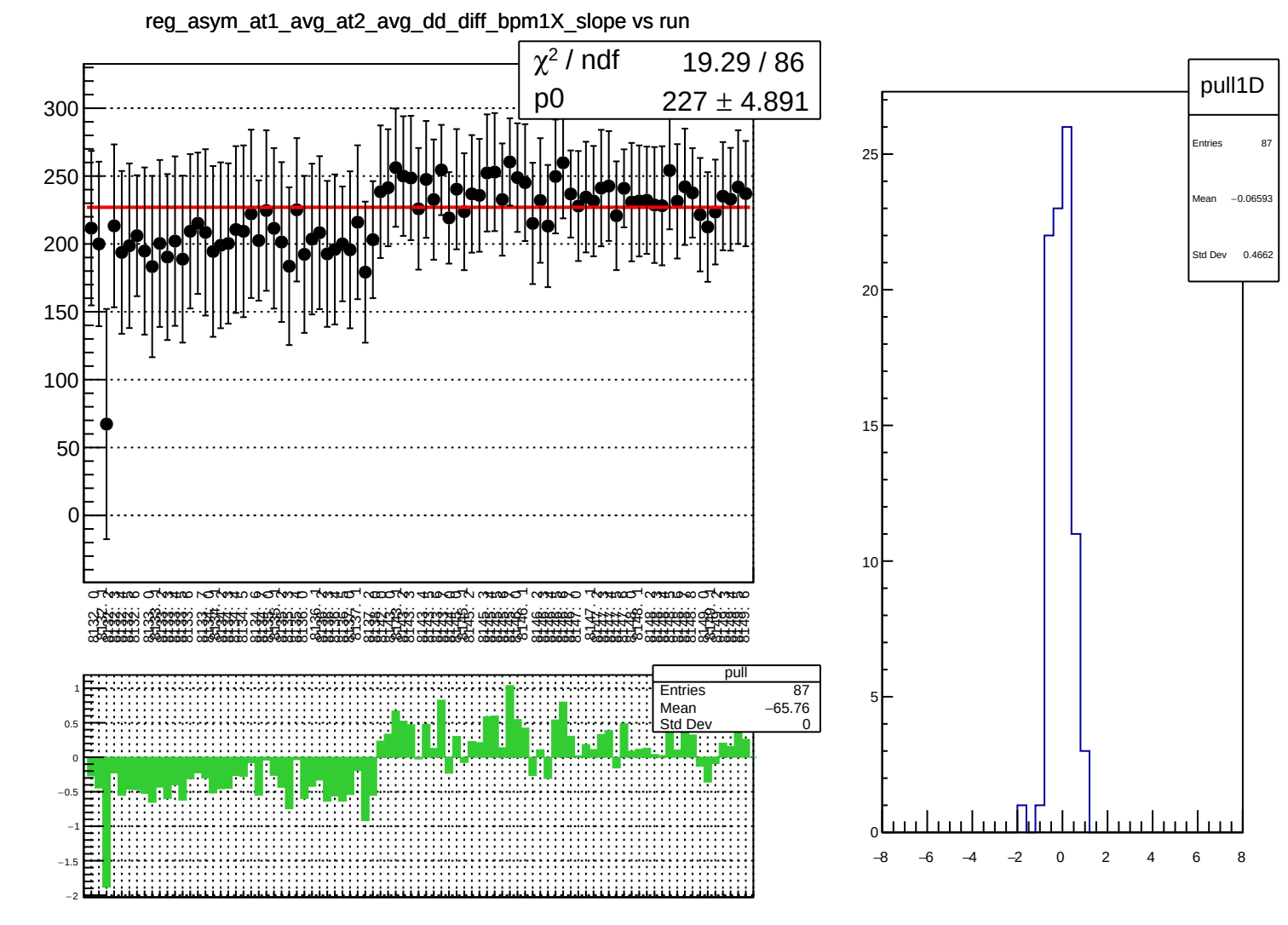

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 101.3 / 86
p0 57.34 ± 1.794
pull
Entries 87
Mean −189.4
Std Dev 0
pull1D
Entries 87
Mean −0.07933
Std Dev 1.076

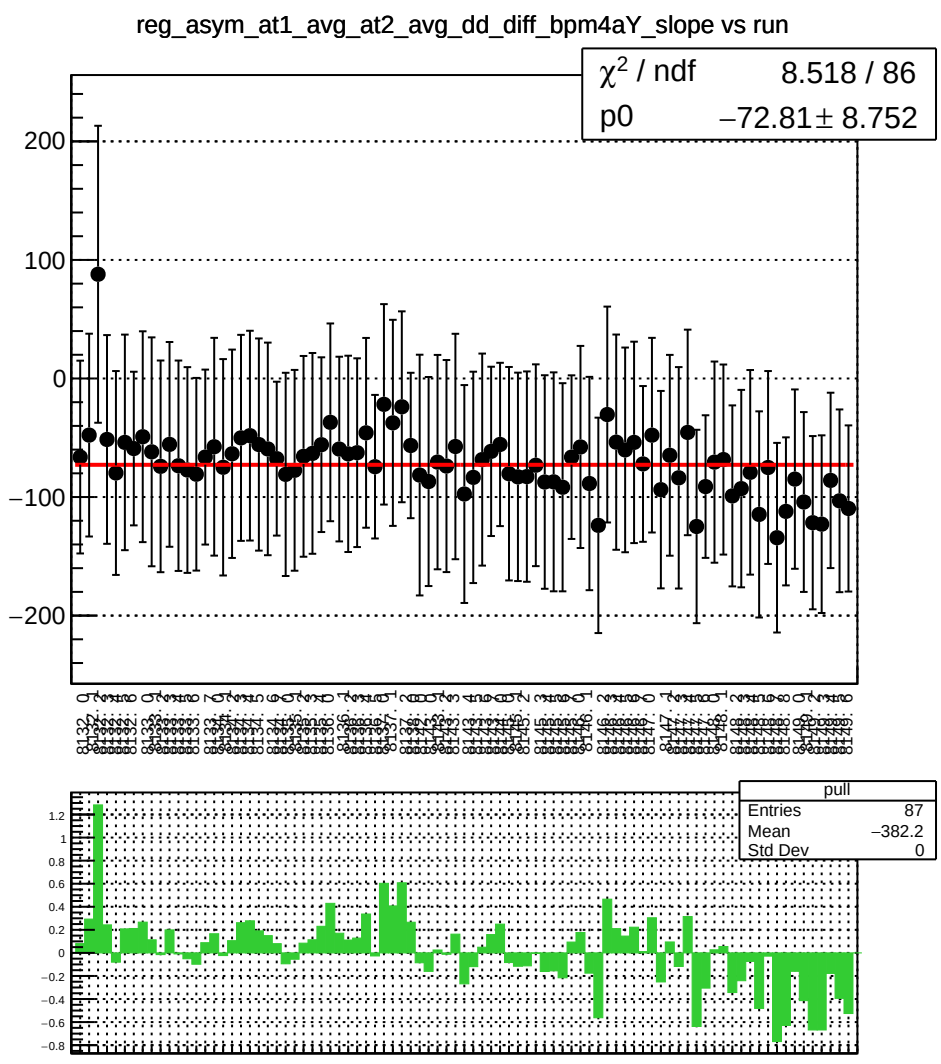

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 46.83 / 86
p0 −14.85 ± 3.116
100
50
0
−50
−100
pull
Entries 87
Mean 1202
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 87
Mean −0.003832
Std Dev 0.7337
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

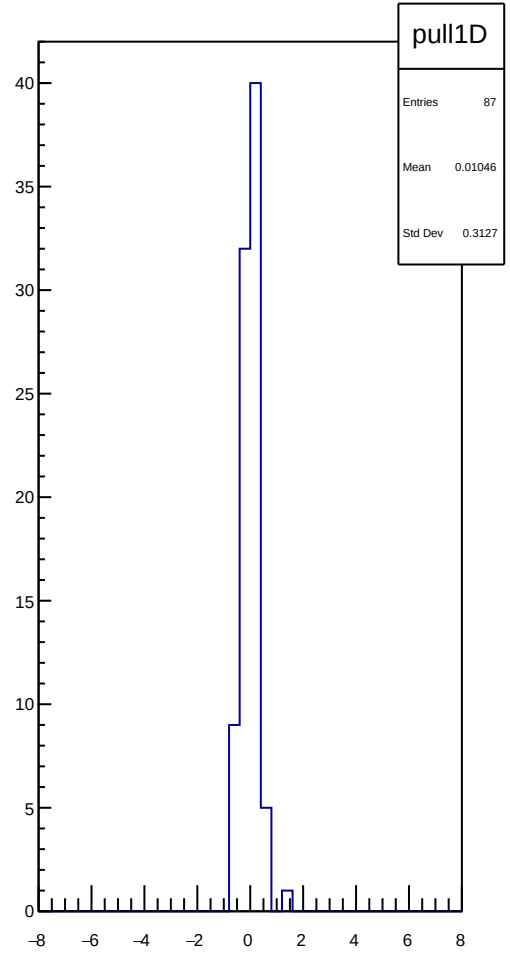

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 85.45 / 86
p0 −71.39 ± 1.77
pull
Entries 87
Mean −291.8
Std Dev 0
pull1D
Entries 87
Mean 0.04836
Std Dev 0.9899

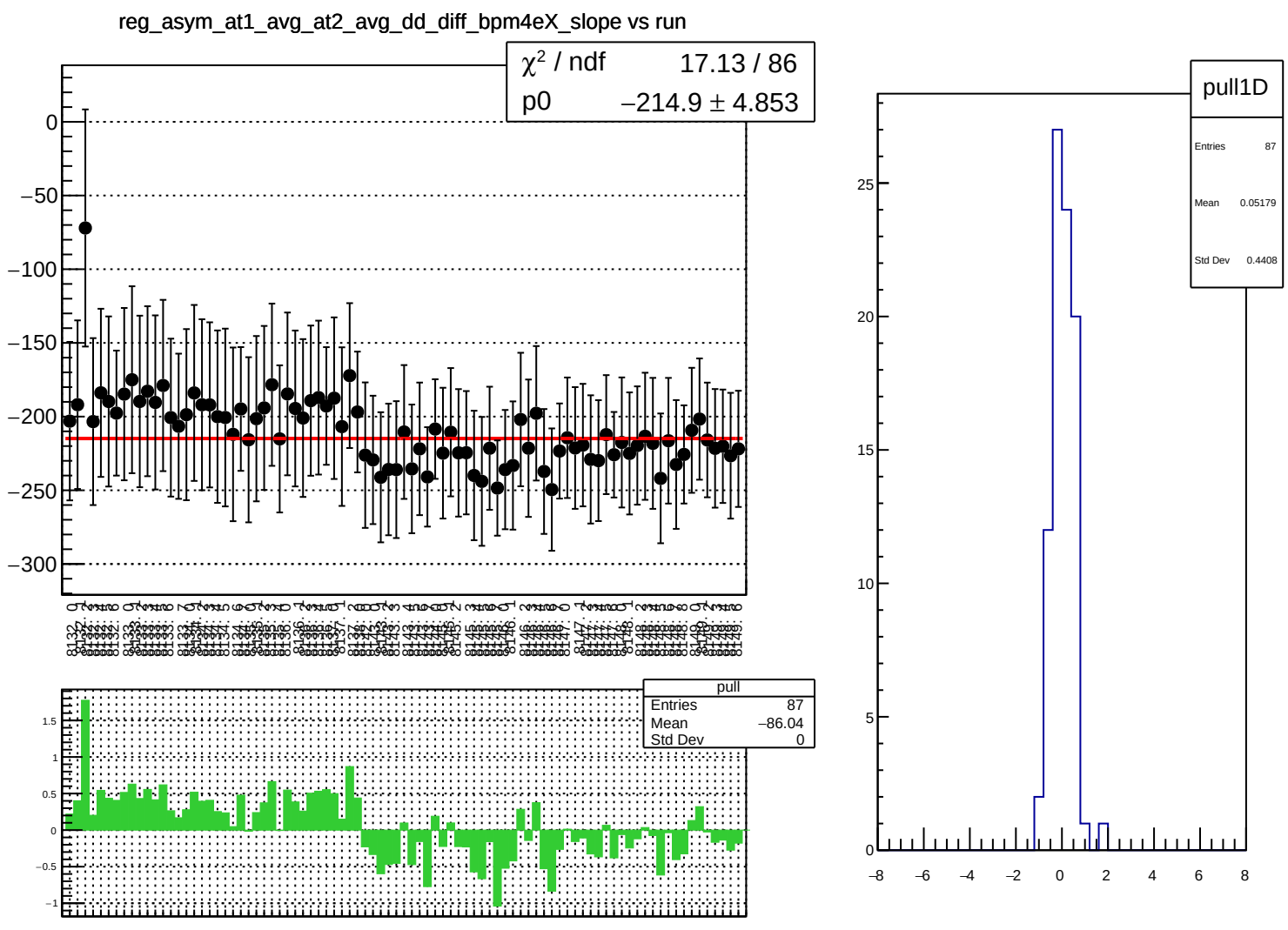

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 48.4 / 86
p0 7.443 ± 3.335
pull
Entries 87
Mean −5364
Std Dev 0
pull1D
Entries 87
Mean −0.0006375
Std Dev 0.7458

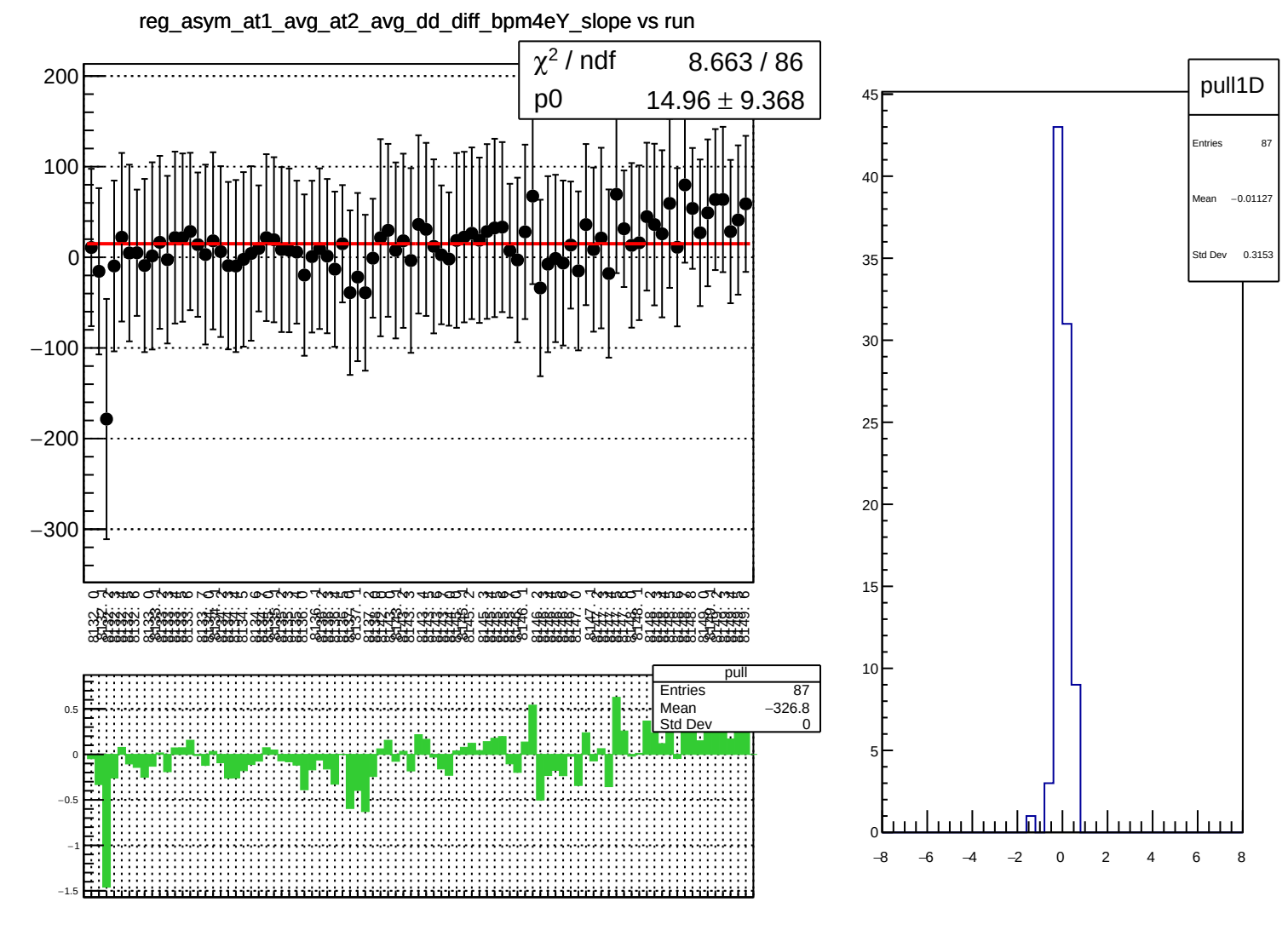

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 1135 / 86
p0 26.14 ± 0.1334
pull
Entries 87
Mean 194.9
Std Dev 0
pull1D
Entries 87
Mean 0.4983
Std Dev 3.577

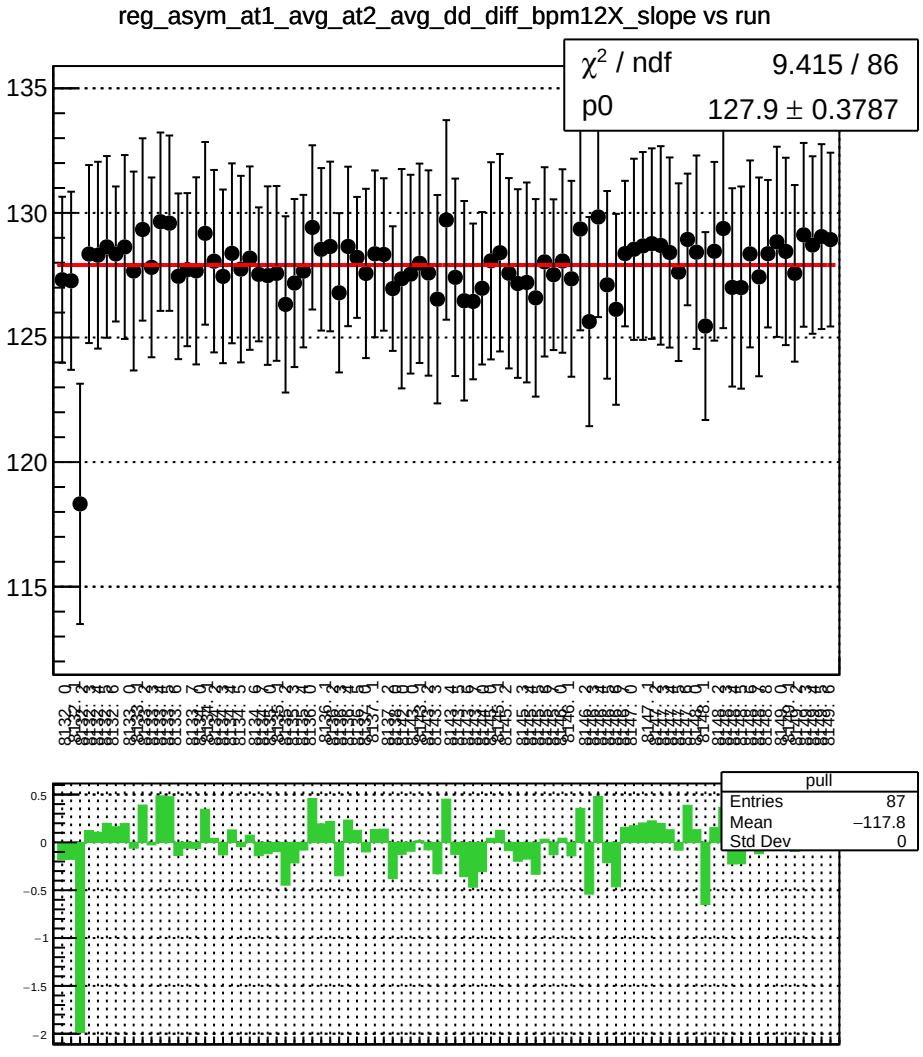

reg_asym_at1_avg_at2_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 19.29 / 86
p0 227 ± 4.891
300
250
200
150
100
50
0
pull
Entries 87
Mean −65.76
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 87
Mean −0.06593
Std Dev 0.4662
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

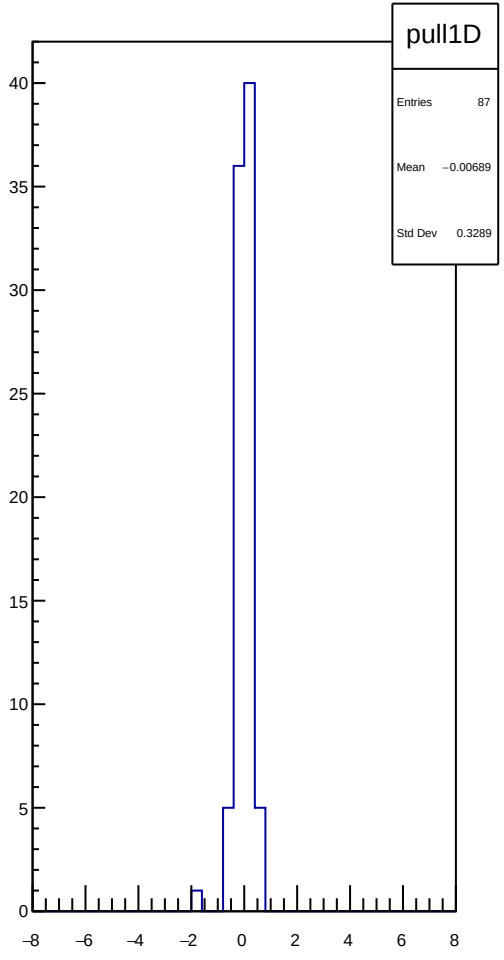

reg_asym_at1_avg_at2_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.518 / 86
p0 −72.81 ± 8.752
200
100
0
−100
−200
pull
Entries 87
Mean −382.2
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

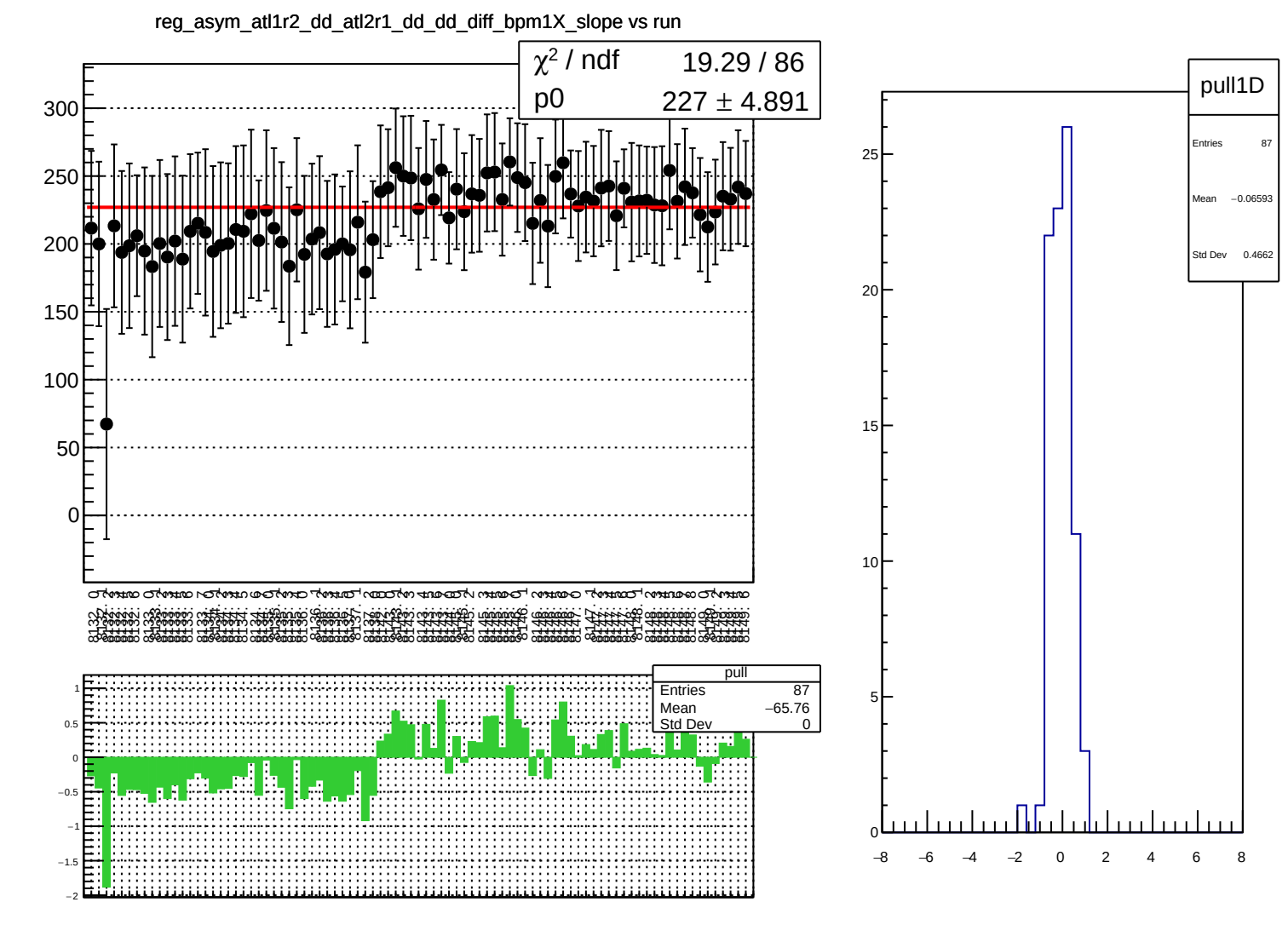

pull1D
Entries 87
Mean 0.01046
Std Dev 0.3127
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

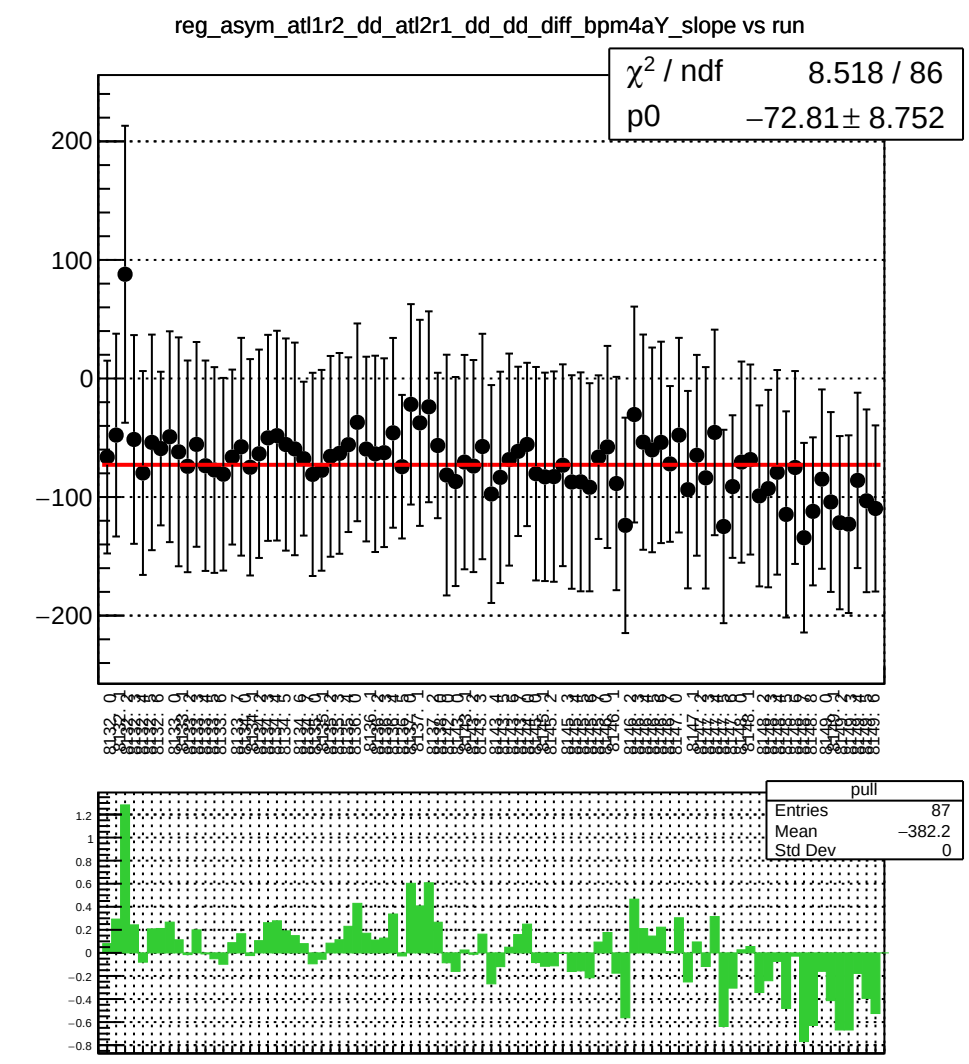

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 17.13 / 86
p0 −214.9 ± 4.853
pull
Entries 87
Mean −86.04
Std Dev 0
pull1D
Entries 87
Mean 0.05179
Std Dev 0.4408

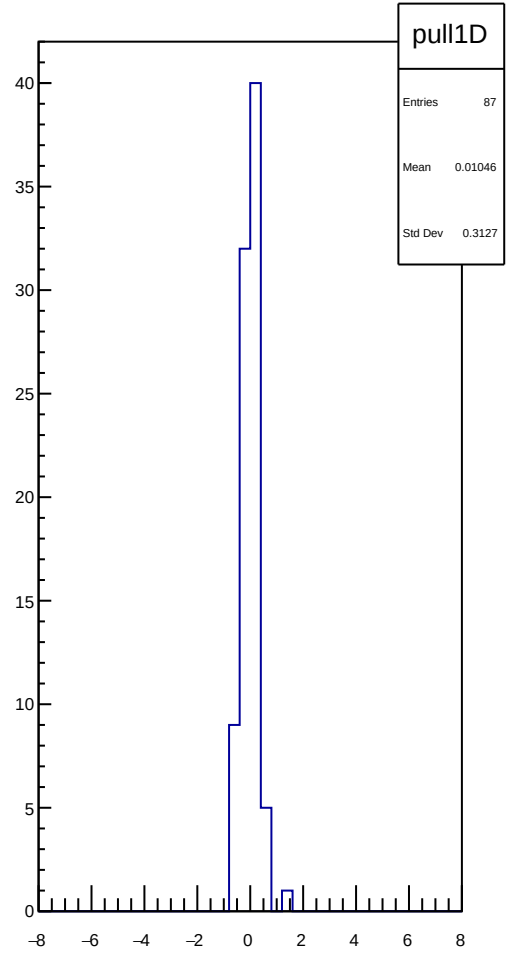

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.663 / 86
p0 14.96 ± 9.368
pull
Entries 87
Mean −326.8
Std Dev 0
pull1D
Entries 87
Mean −0.01127
Std Dev 0.3153

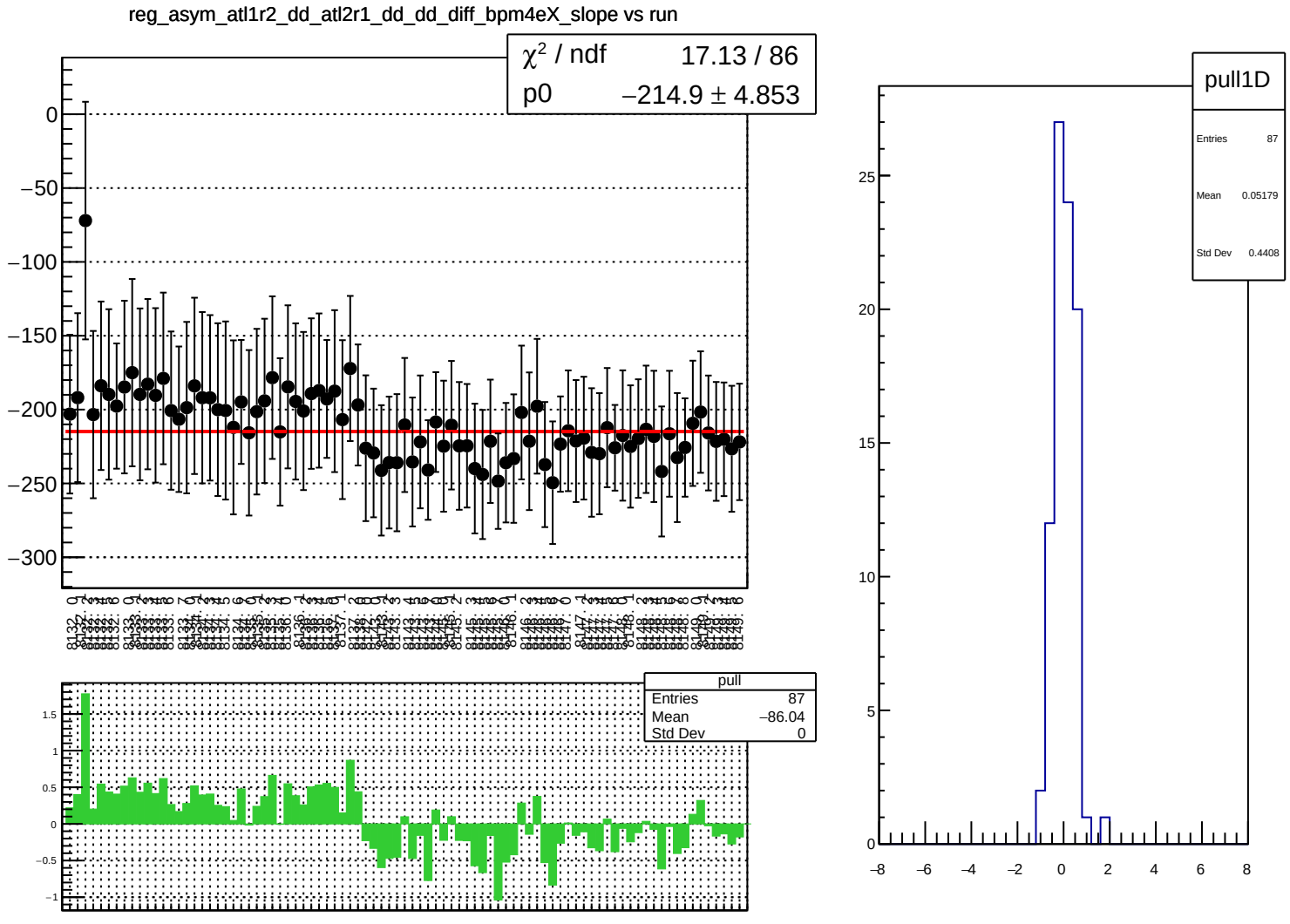

reg_asym_at1_avg_at2_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 9.415 / 86
p0 127.9 ± 0.3787
135
130
125
120
115
pull
Entries 87
Mean −117.8
Std Dev 0
0.5
0
−0.5
−1
−1.5
−2

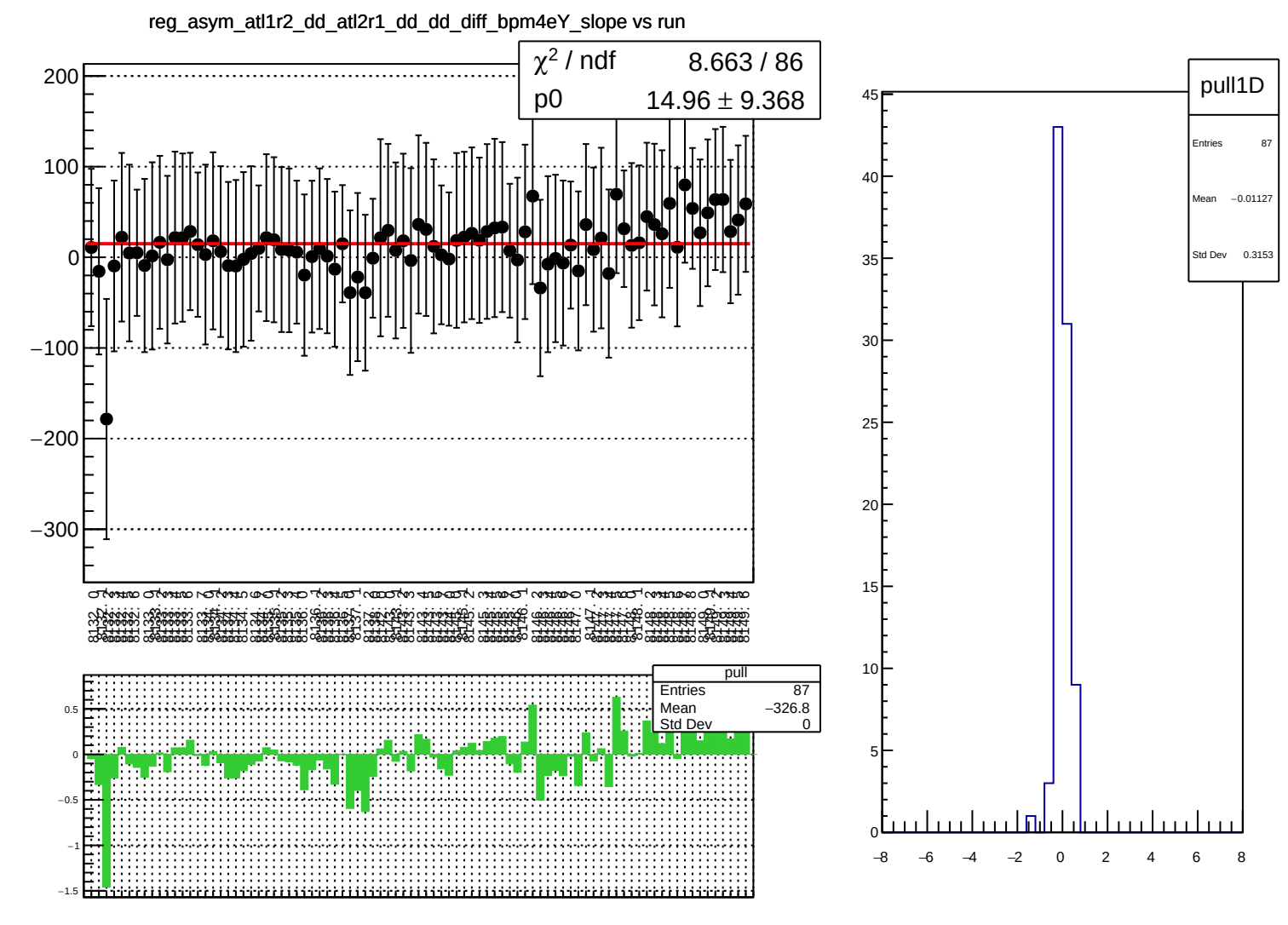

pull1D
Entries 87
Mean −0.00689
Std Dev 0.3289
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

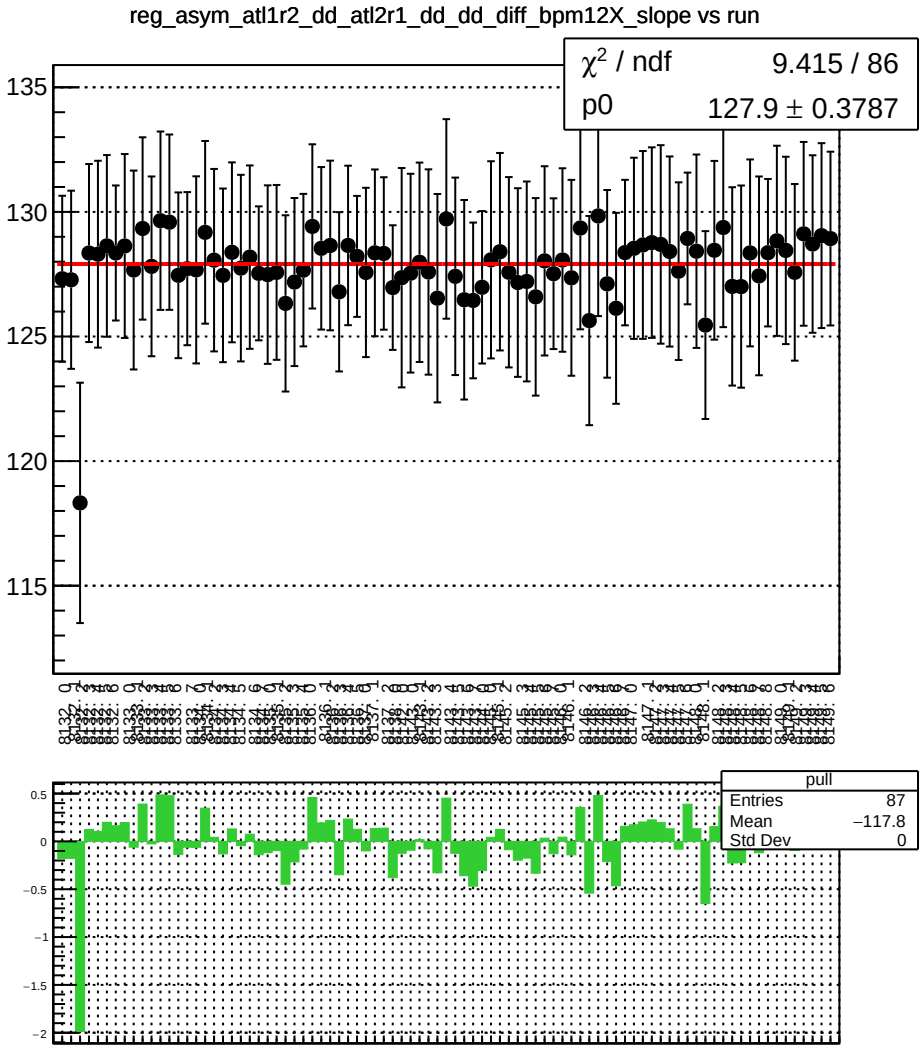

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 19.29 / 86
p0 227 ± 4.891
300
250
200
150
100
50
0
pull
Entries 87
Mean −65.76
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 87
Mean −0.06593
Std Dev 0.4662
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

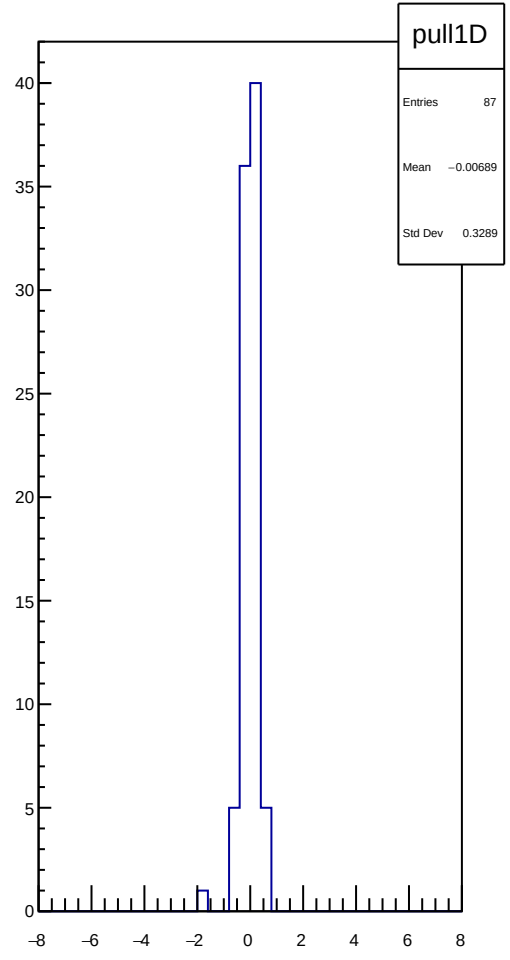

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.518 / 86
p0 −72.81 ± 8.752
200
100
0
−100
−200
pull
Entries 87
Mean −382.2
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

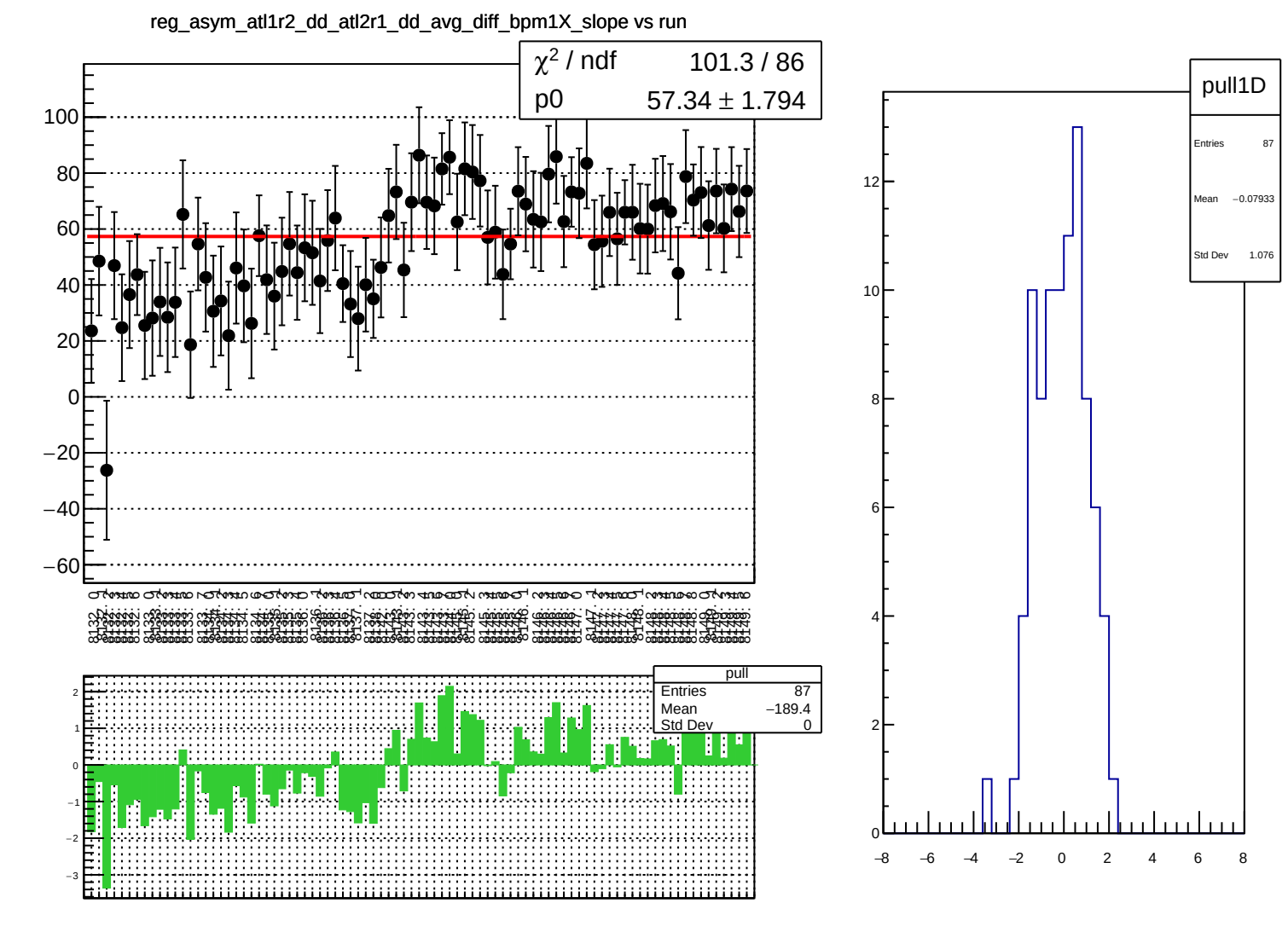

pull1D
Entries 87
Mean 0.01046
Std Dev 0.3127
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

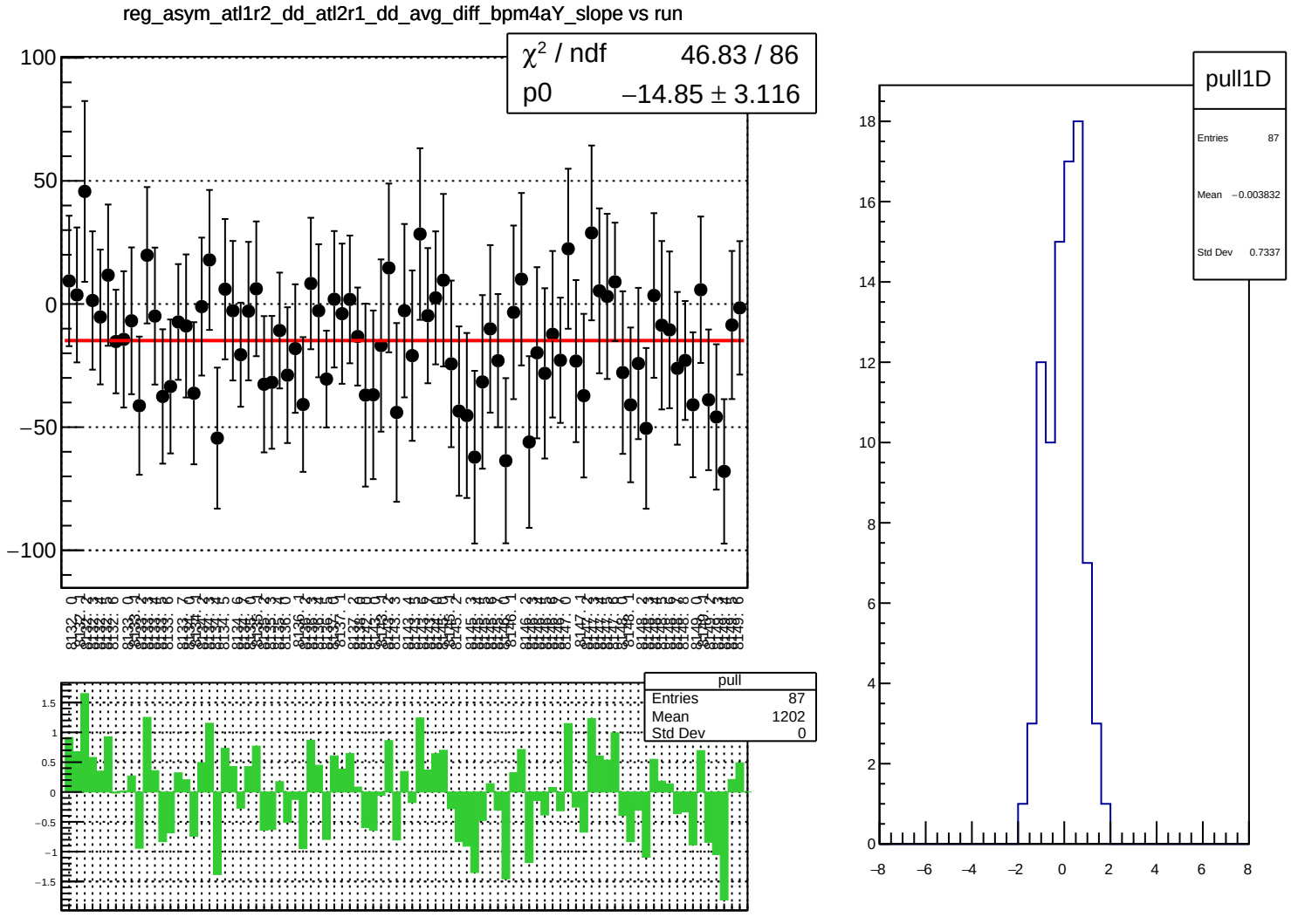

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 17.13 / 86
p0 −214.9 ± 4.853
0
−50
−100
−150
−200
−250
−300
pull
Entries 87
Mean −86.04
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 87
Mean 0.05179
Std Dev 0.4408
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

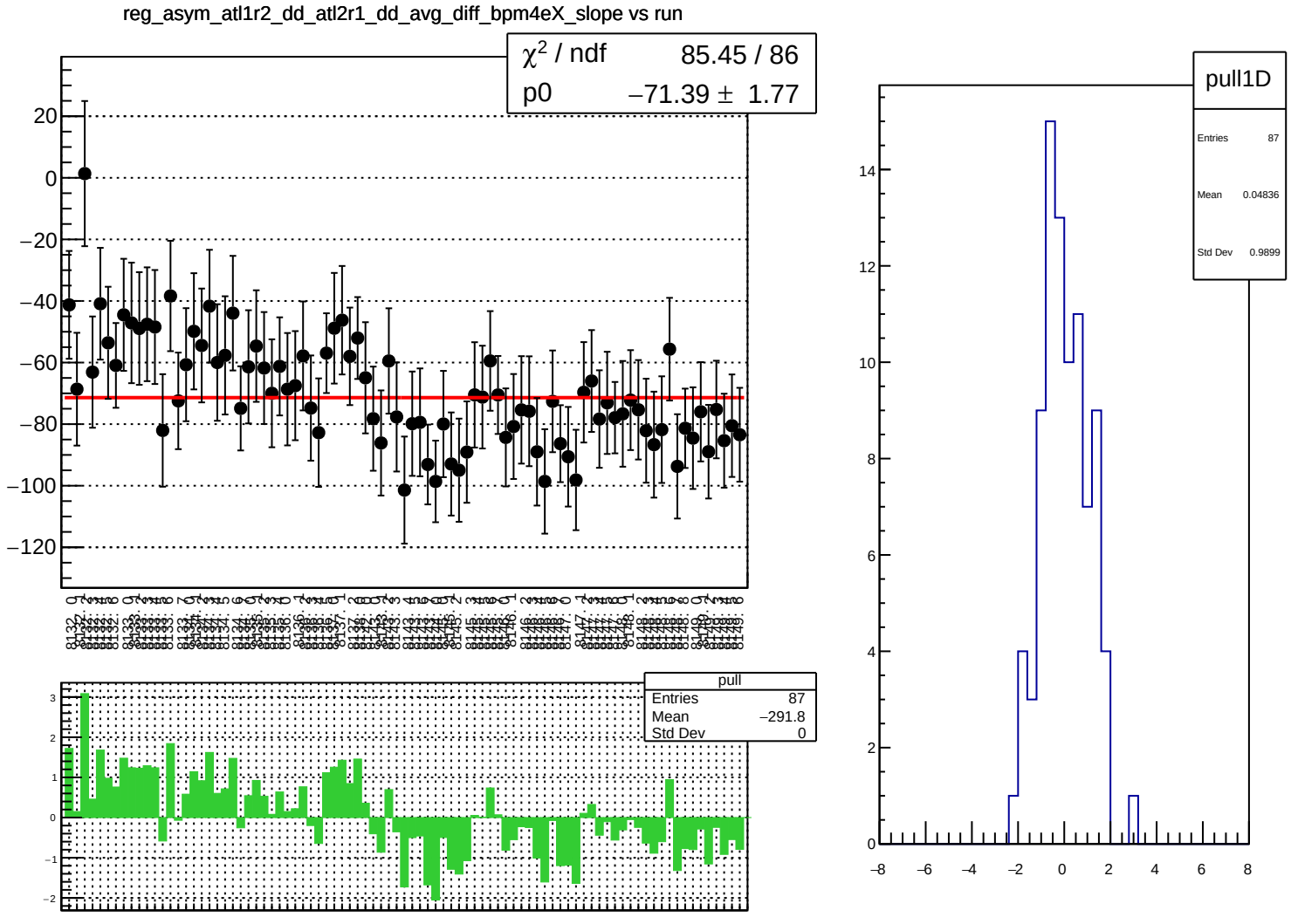

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.663 / 86
p0 14.96 ± 9.368
pull
Entries 87
Mean −326.8
Std Dev 0
pull1D
Entries 87
Mean −0.01127
Std Dev 0.3153

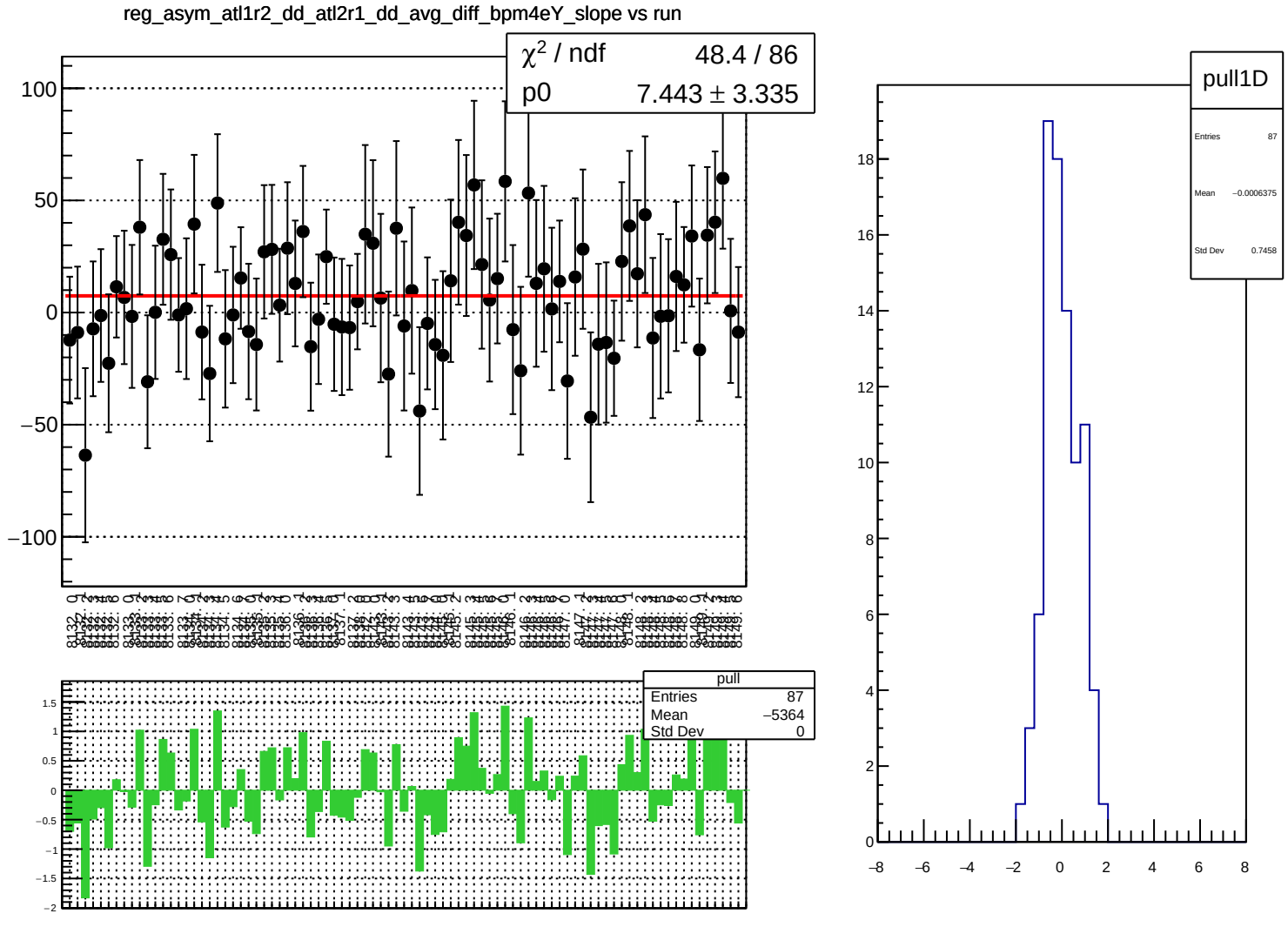

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 9.415 / 86
p0 127.9 ± 0.3787
pull
Entries 87
Mean −117.8
Std Dev 0

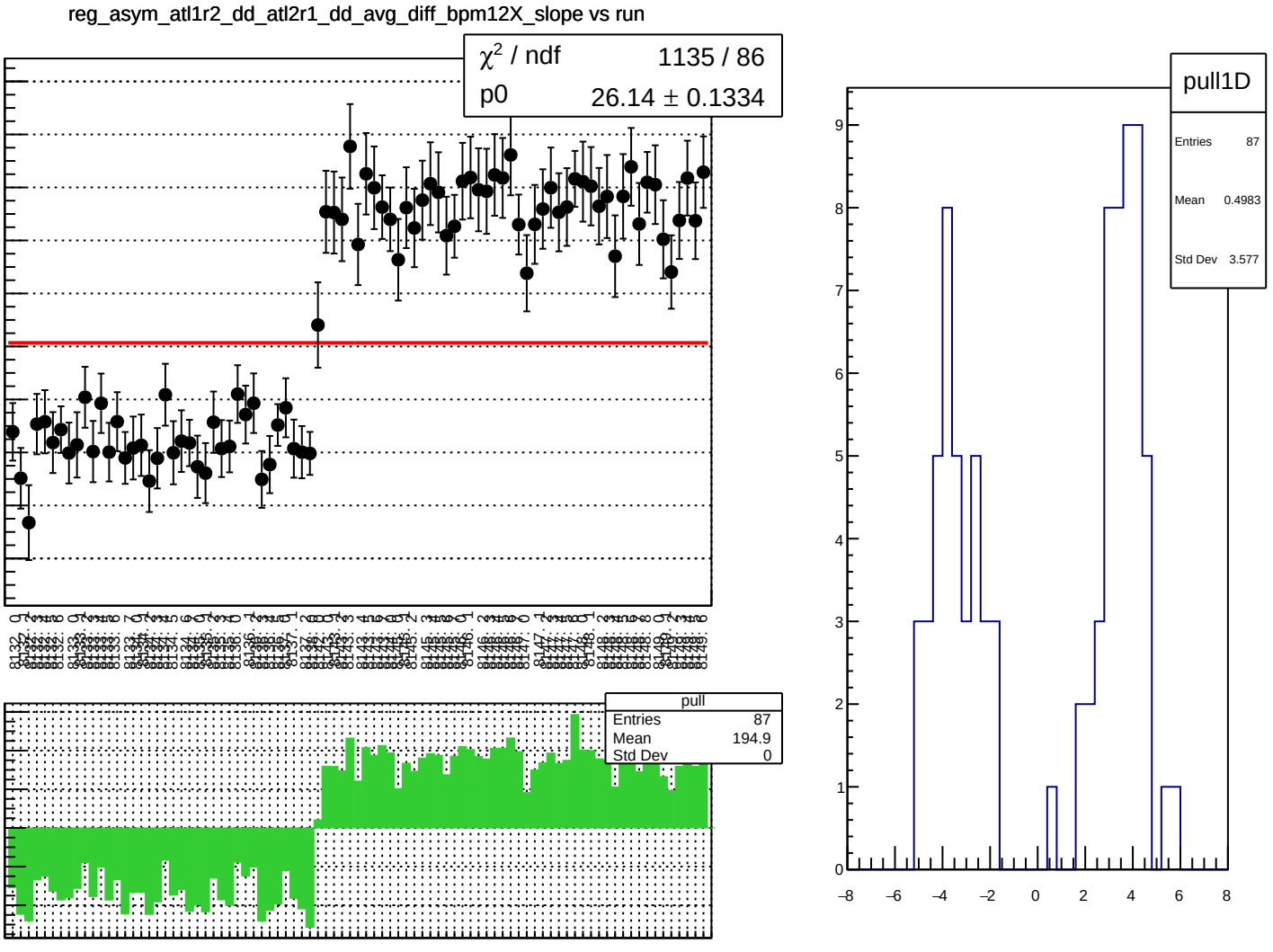

pull1D
Entries 87
Mean −0.00689
Std Dev 0.3289

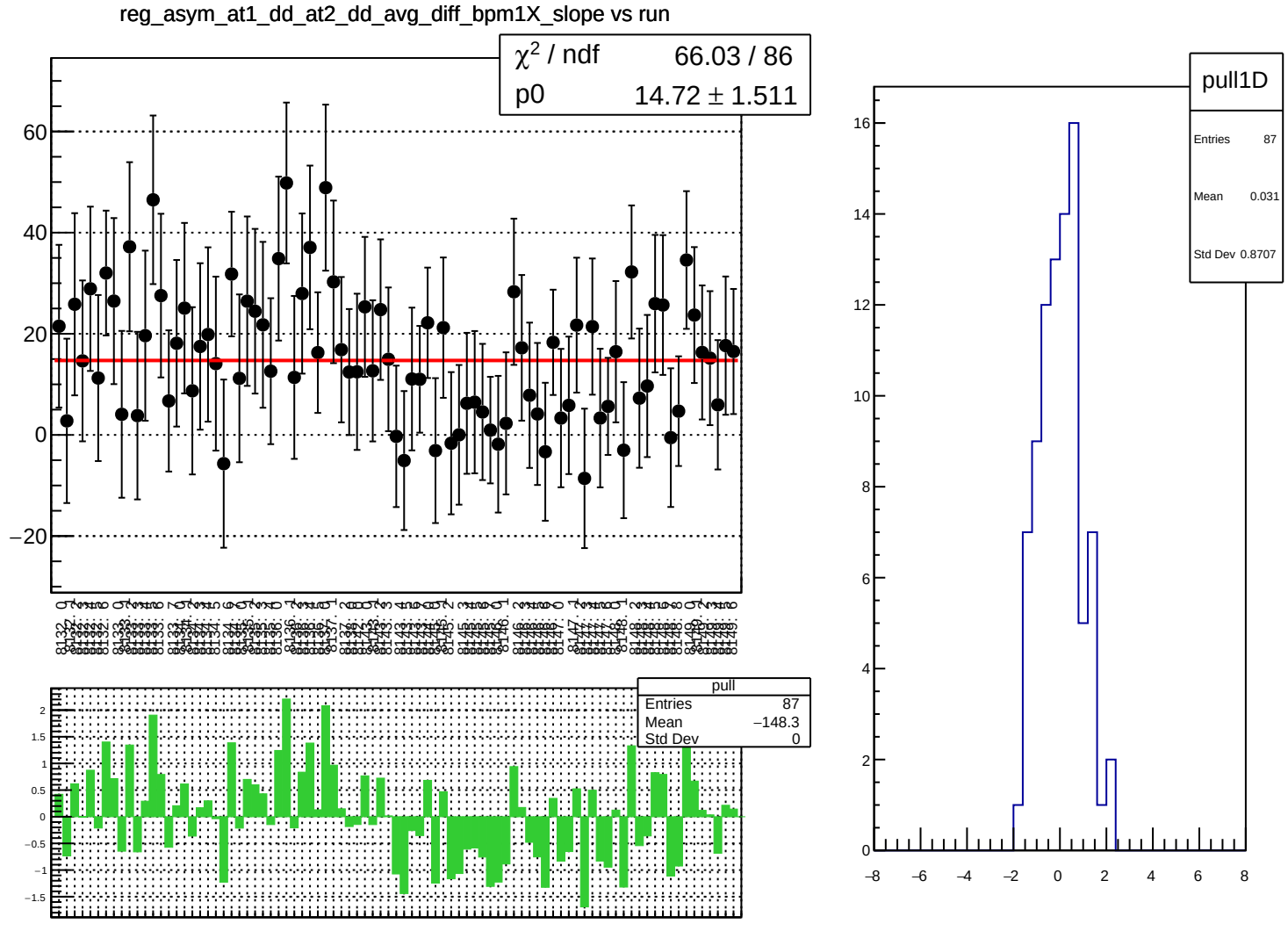

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 101.3 / 86
p0 57.34 ± 1.794
pull
Entries 87
Mean −189.4
Std Dev 0
pull1D
Entries 87
Mean −0.07933
Std Dev 1.076

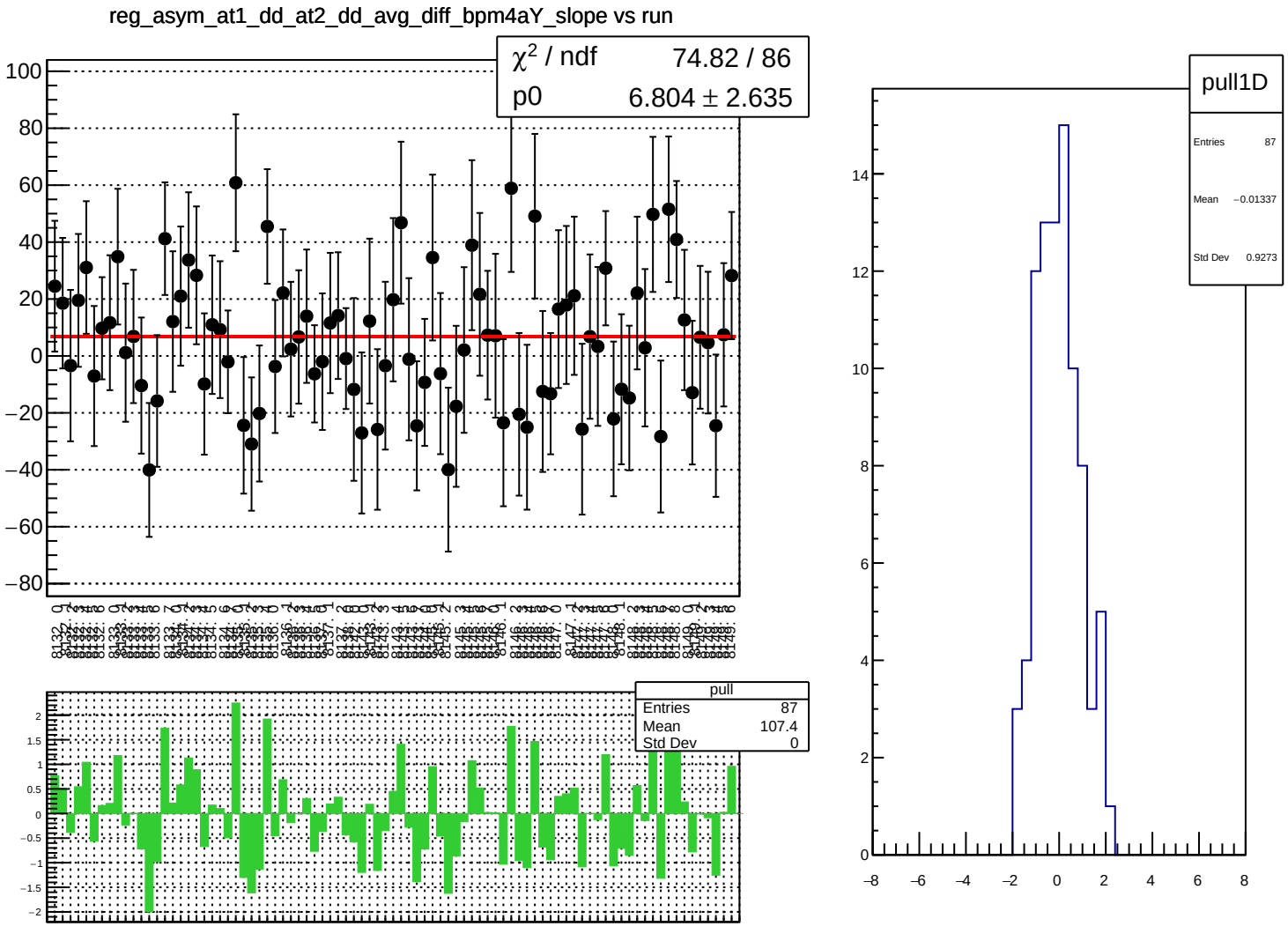

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 46.83 / 86
p0 −14.85 ± 3.116
pull
Entries 87
Mean 1202
Std Dev 0
pull1D
Entries 87
Mean −0.003832
Std Dev 0.7337

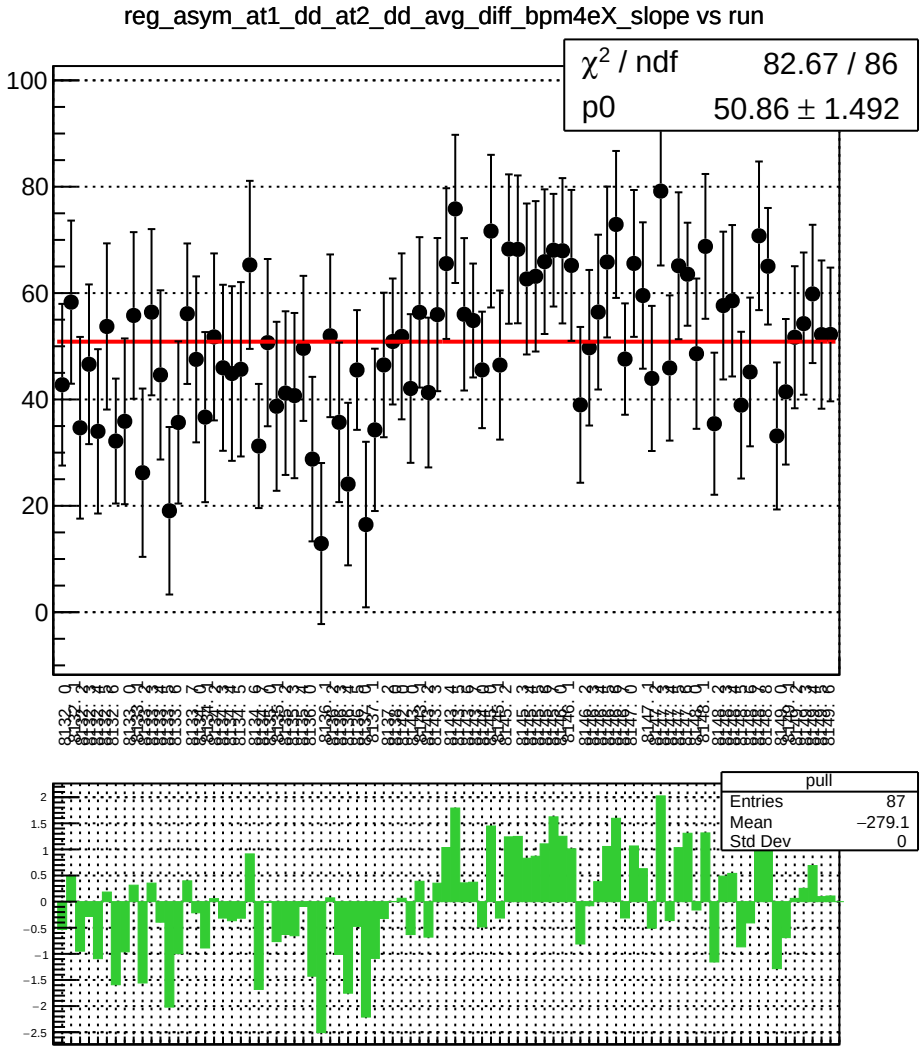

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 85.45 / 86
p0 −71.39 ± 1.77
pull
Entries 87
Mean −291.8
Std Dev 0
pull1D
Entries 87
Mean 0.04836
Std Dev 0.9899

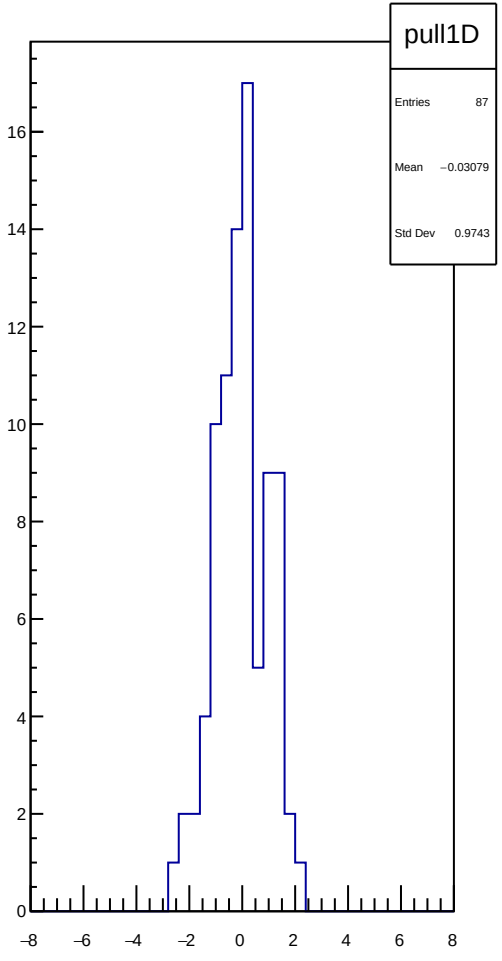

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 48.4 / 86
p0 7.443 ± 3.335
pull
Entries 87
Mean −5364
Std Dev 0
pull1D
Entries 87
Mean −0.0006375
Std Dev 0.7458

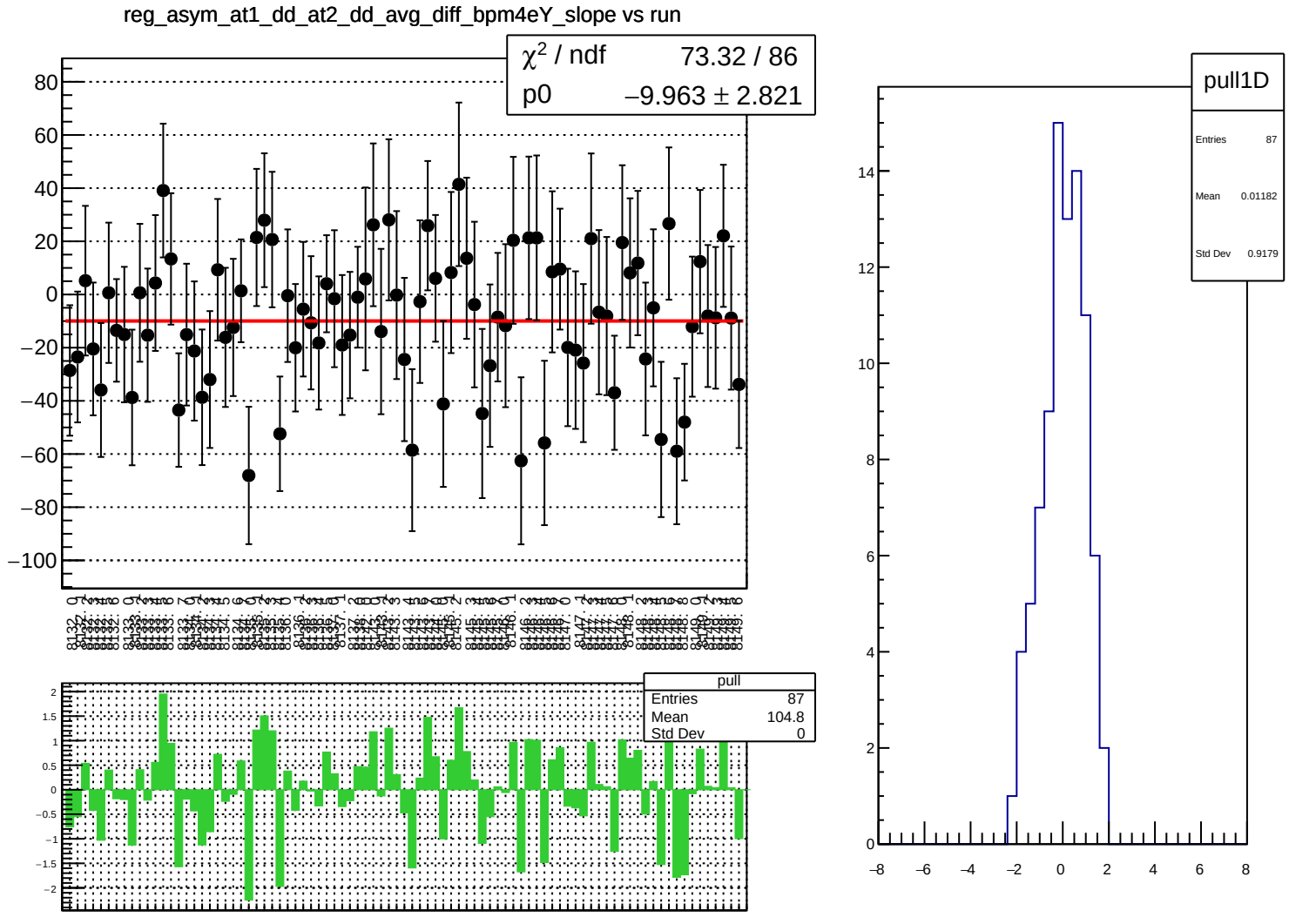

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 1135 / 86
p0 26.14 ± 0.1334
pull
Entries 87
Mean 194.9
Std Dev 0
pull1D
Entries 87
Mean 0.4983
Std Dev 3.577

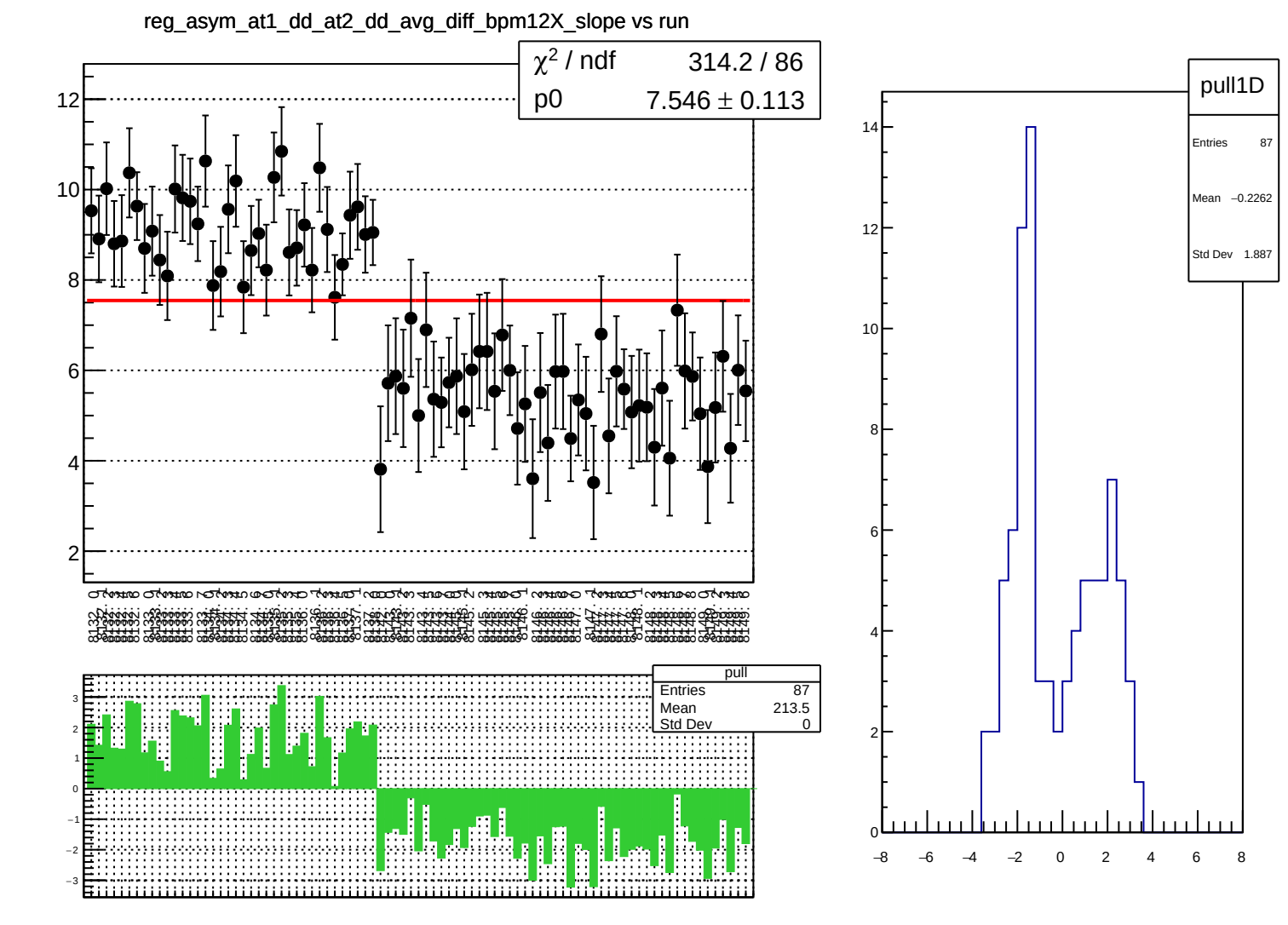

reg_asym_at1_dd_at2_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 66.03 / 86
p0 14.72 ± 1.511
pull
Entries 87
Mean −148.3
Std Dev 0
pull1D
Entries 87
Mean 0.031
Std Dev 0.8707

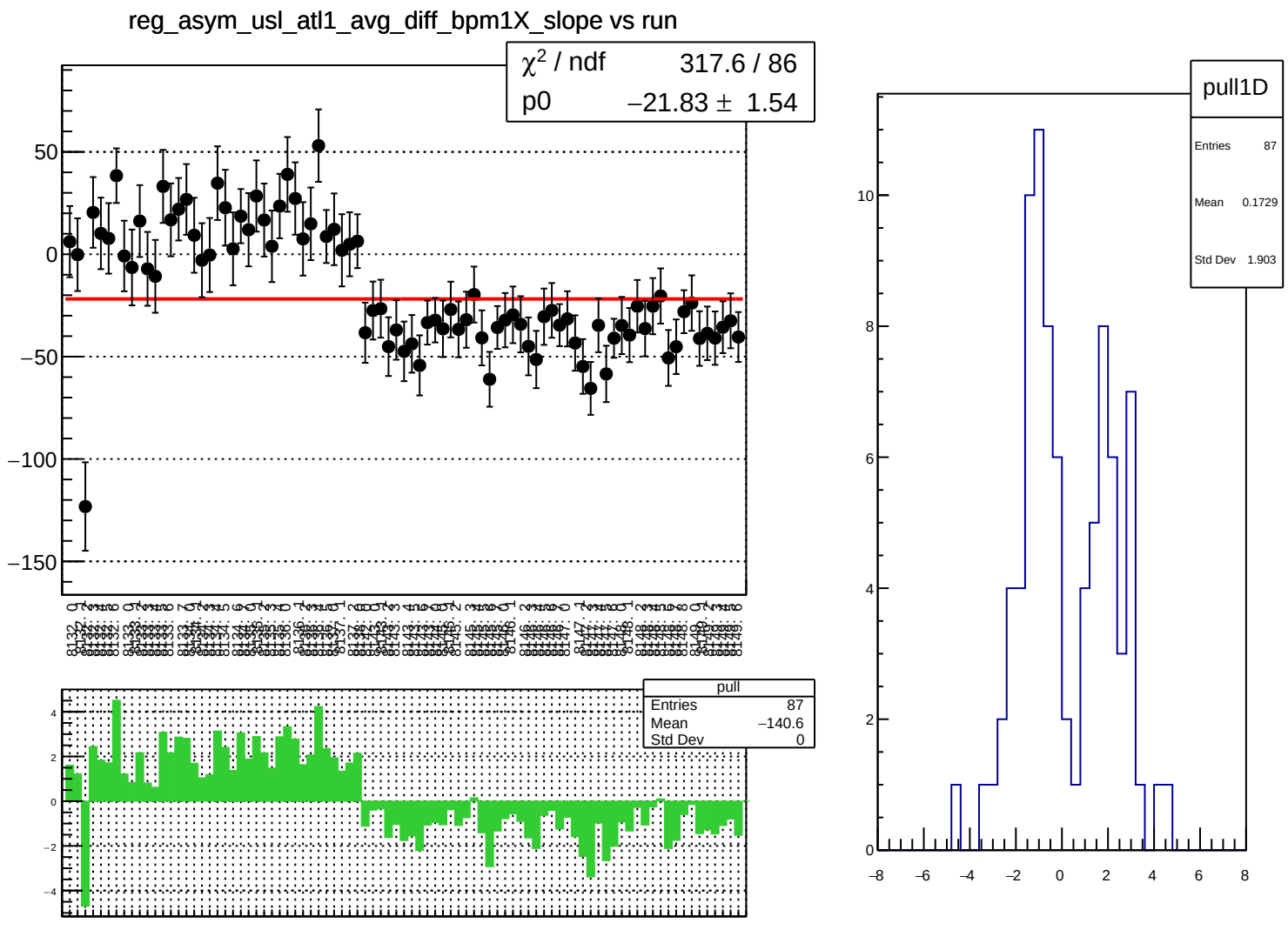

reg_asym_at1_dd_at2_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 74.82 / 86
p0 6.804 ± 2.635
pull
Entries 87
Mean 107.4
Std Dev 0
pull1D
Entries 87
Mean −0.01337
Std Dev 0.9273

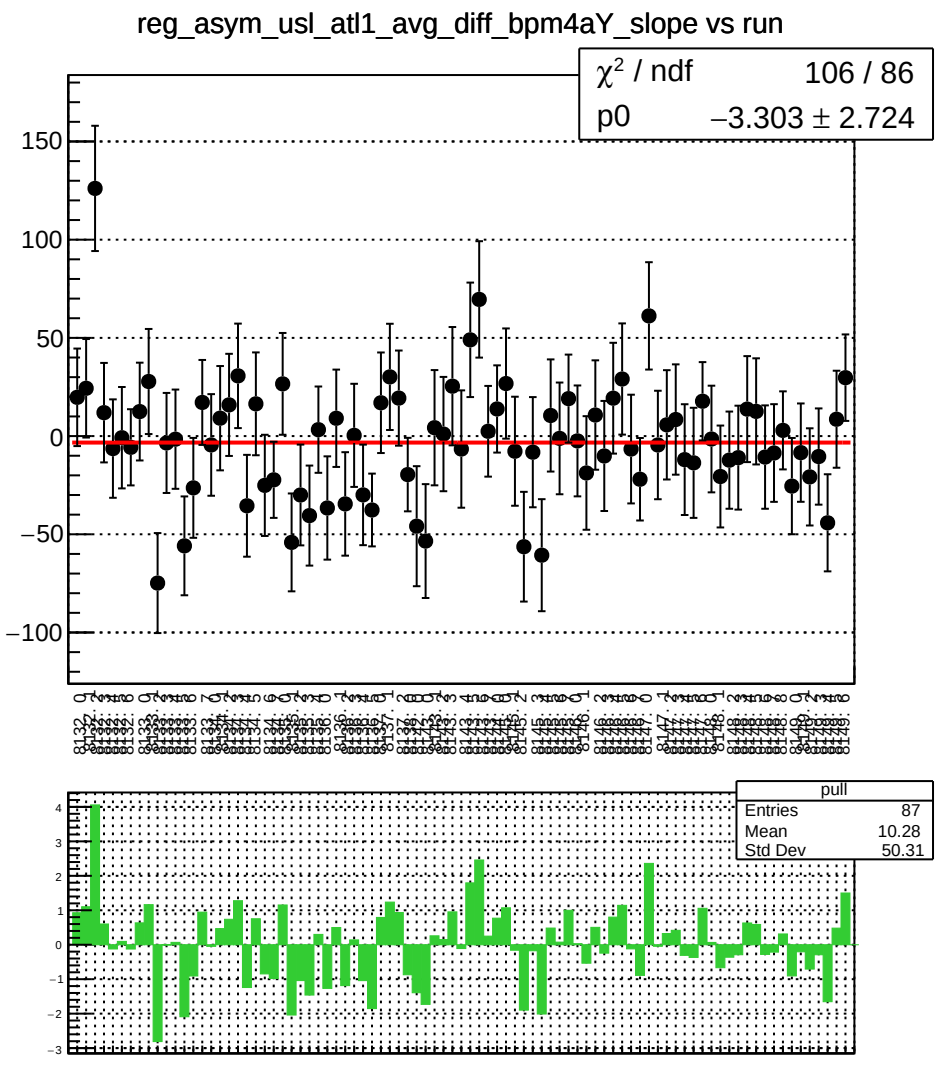

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 82.67 / 86
p0 50.86 ± 1.492
pull
Entries 87
Mean −279.1
Std Dev 0

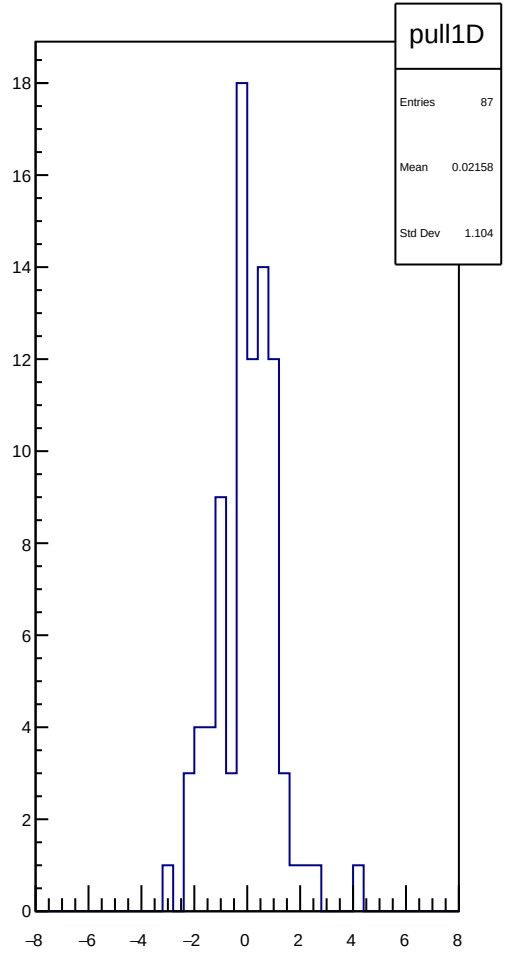

pull1D
Entries 87
Mean −0.03079
Std Dev 0.9743

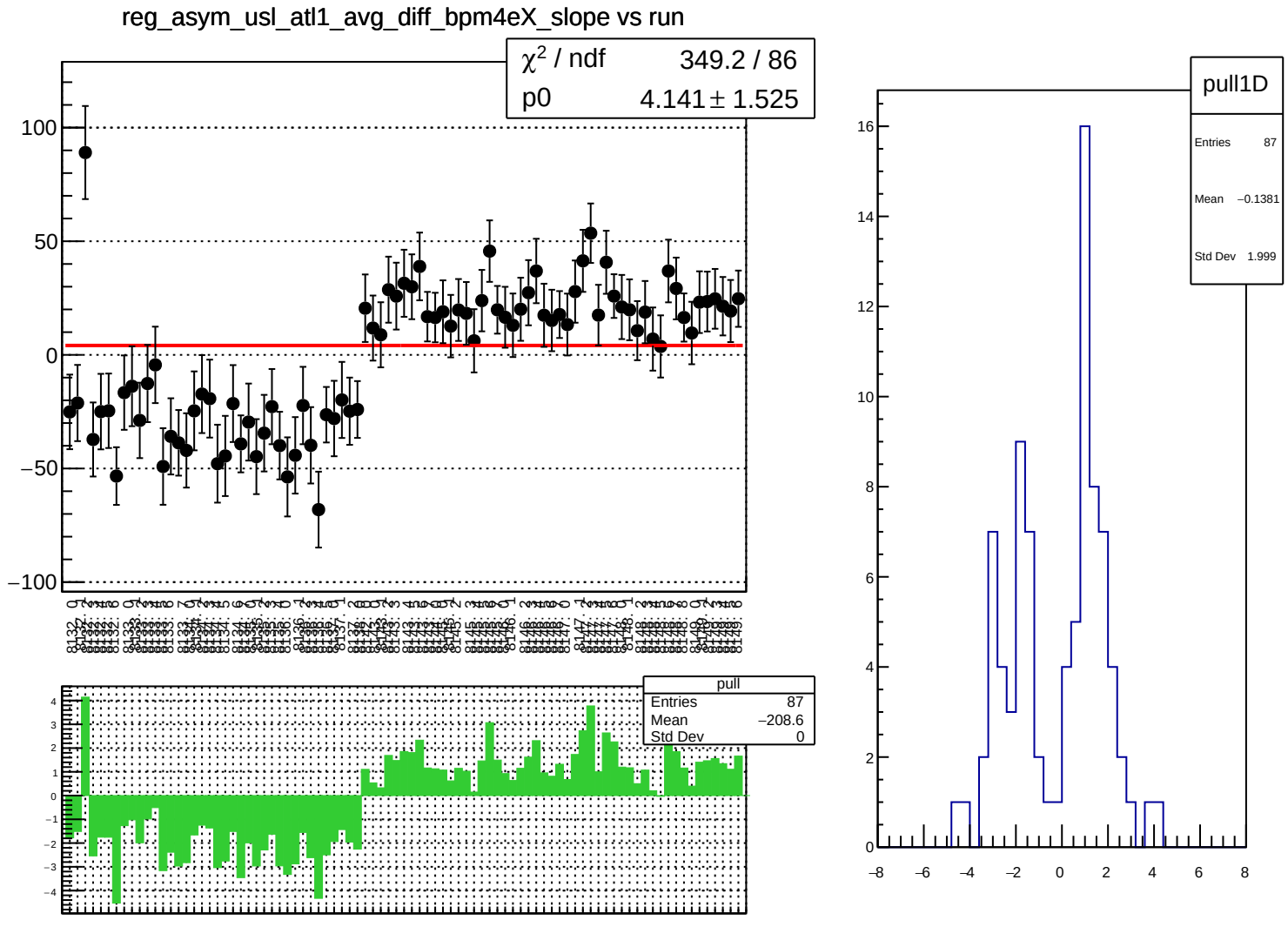

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 73.32 / 86
p0 −9.963 ± 2.821
pull
Entries 87
Mean 104.8
Std Dev 0
pull1D
Entries 87
Mean 0.01182
Std Dev 0.9179

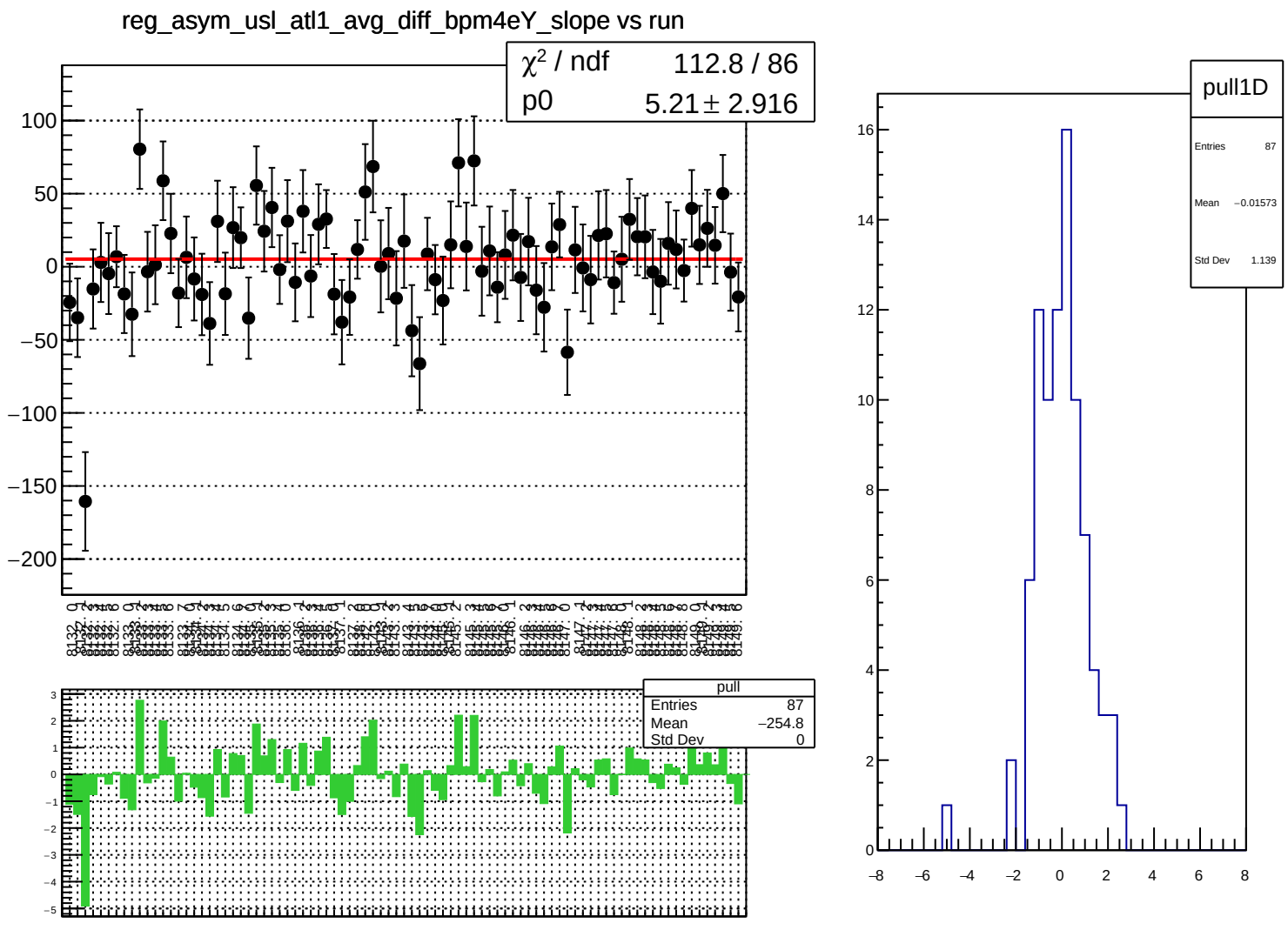

reg_asym_at1_dd_at2_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 314.2 / 86
p0 7.546 ± 0.113
pull
Entries 87
Mean 213.5
Std Dev 0
pull1D
Entries 87
Mean −0.2262
Std Dev 1.887

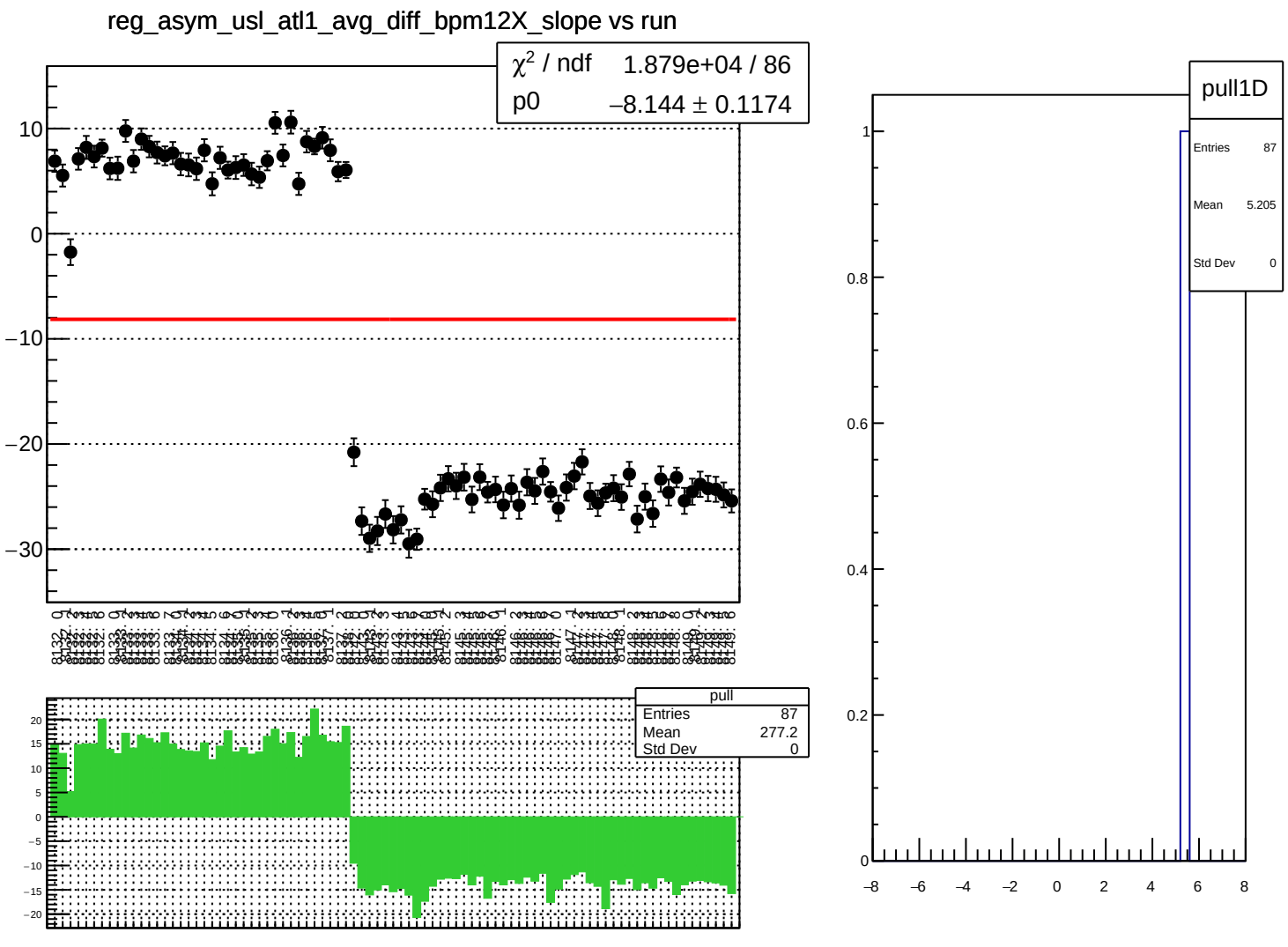

reg_asym_usl_atl1_avg_diff_bpm1X_slope vs run
χ² / ndf 317.6 / 86
p0 −21.83 ± 1.54
50
0
−50
−100
−150
pull
Entries 87
Mean −140.6
Std Dev 0
4
2
0
−2
−4
pull1D
Entries 87
Mean 0.1729
Std Dev 1.903
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

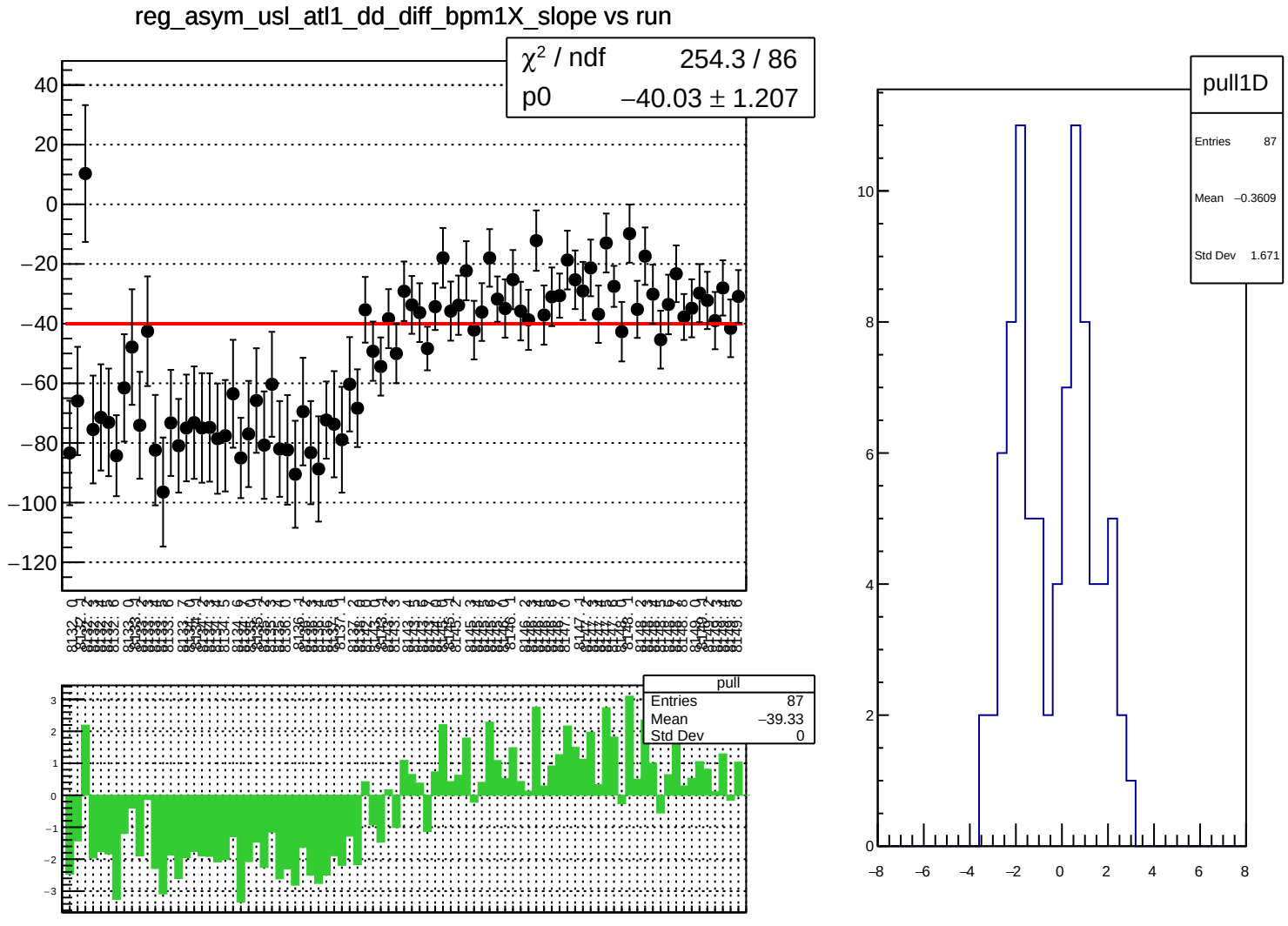

reg_asym_usl_atl1_avg_diff_bpm4aY_slope vs run
χ² / ndf 106 / 86
p0 −3.303 ± 2.724
150
100
50
0
−50
−100
pull
Entries 87
Mean 10.28
Std Dev 50.31
4
3
2
1
0
−1
−2
−3

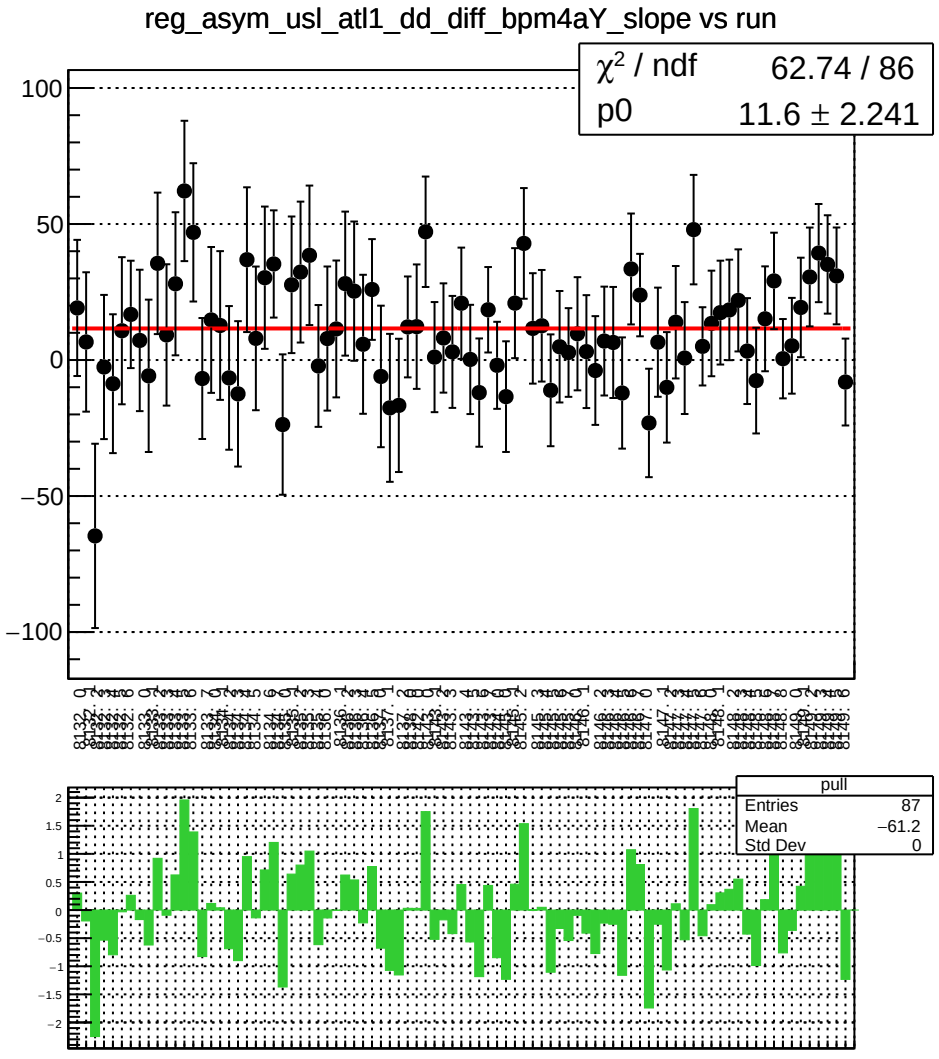

pull1D
Entries 87
Mean 0.02158
Std Dev 1.104
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

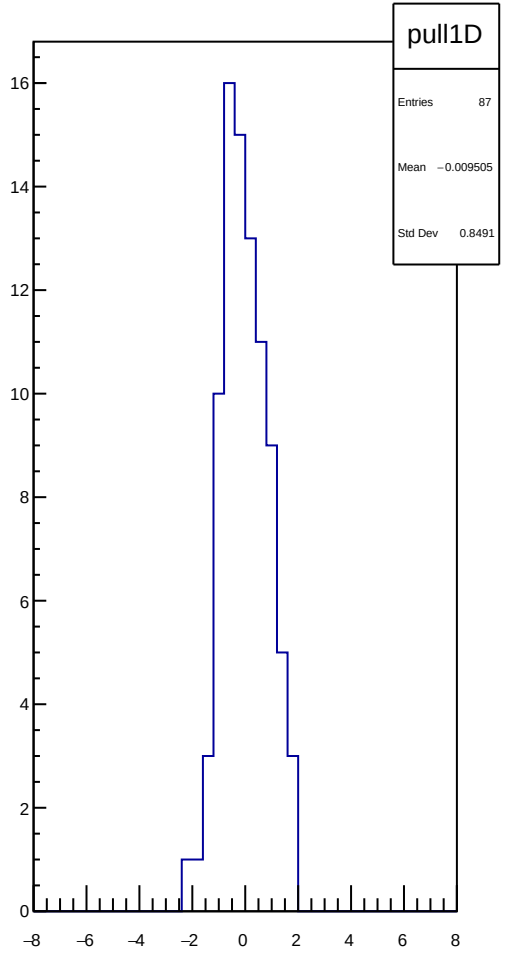

reg_asym_usl_atl1_avg_diff_bpm4eX_slope vs run
χ² / ndf 349.2 / 86
p0 4.141 ± 1.525
pull
Entries 87
Mean −208.6
Std Dev 0
pull1D
Entries 87
Mean −0.1381
Std Dev 1.999

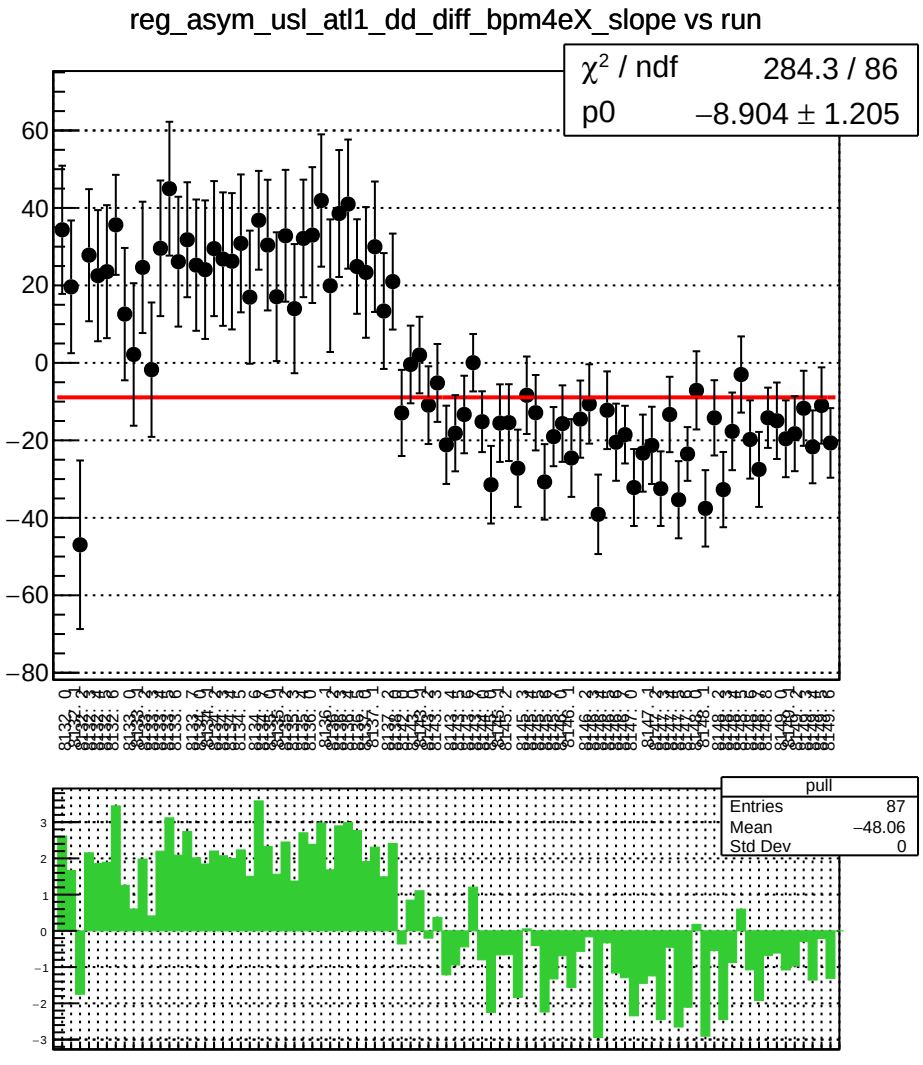

reg_asym_usl_atl1_avg_diff_bpm4eY_slope vs run
χ² / ndf 112.8 / 86
p0 5.21 ± 2.916
pull
Entries 87
Mean −254.8
Std Dev 0
pull1D
Entries 87
Mean −0.01573
Std Dev 1.139

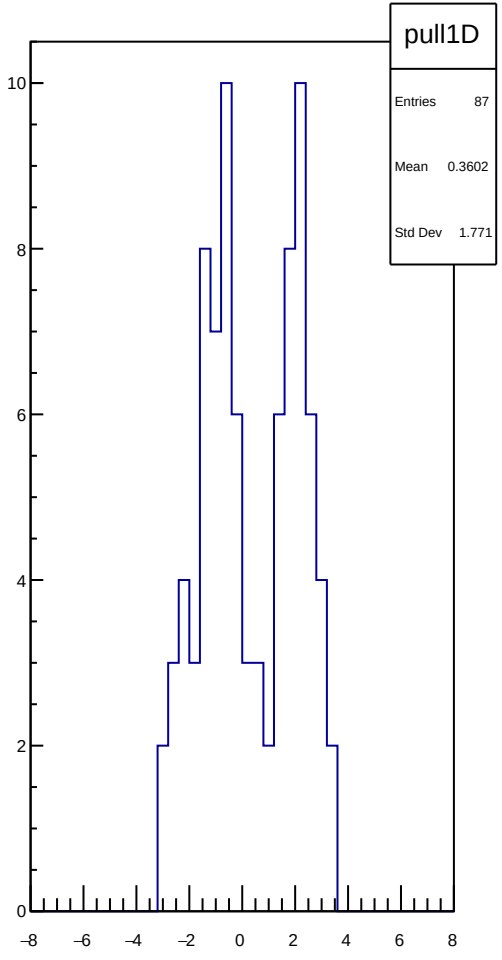

reg_asym_usl_atl1_avg_diff_bpm12X_slope vs run
χ² / ndf 1.879e+04 / 86
p0 −8.144 ± 0.1174
pull
Entries 87
Mean 277.2
Std Dev 0
pull1D
Entries 87
Mean 5.205
Std Dev 0

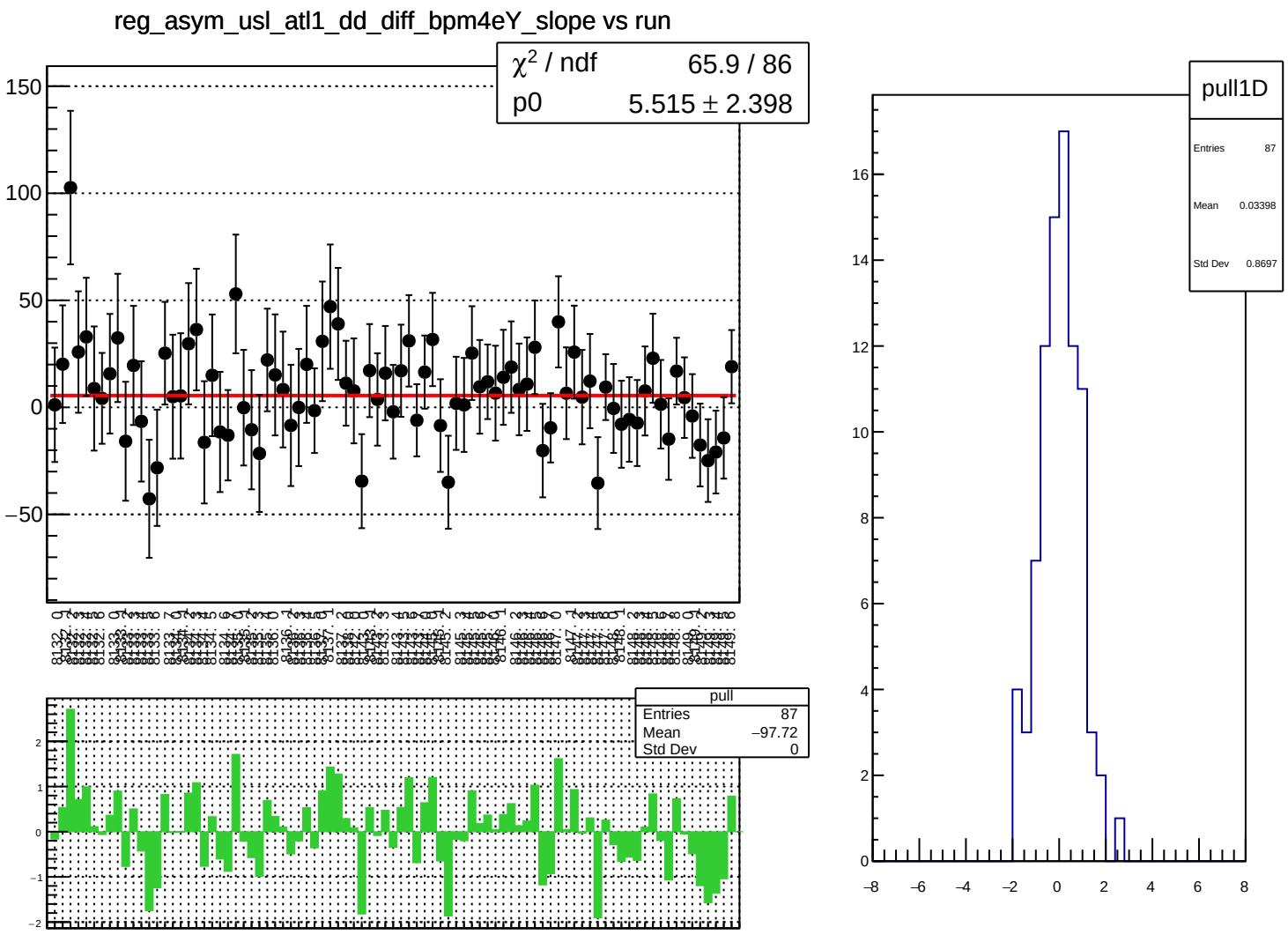

reg_asym_usl_atl1_dd_diff_bpm1X_slope vs run
χ² / ndf 254.3 / 86
p0 −40.03 ± 1.207
pull
Entries 87
Mean −39.33
Std Dev 0
pull1D
Entries 87
Mean −0.3609
Std Dev 1.671

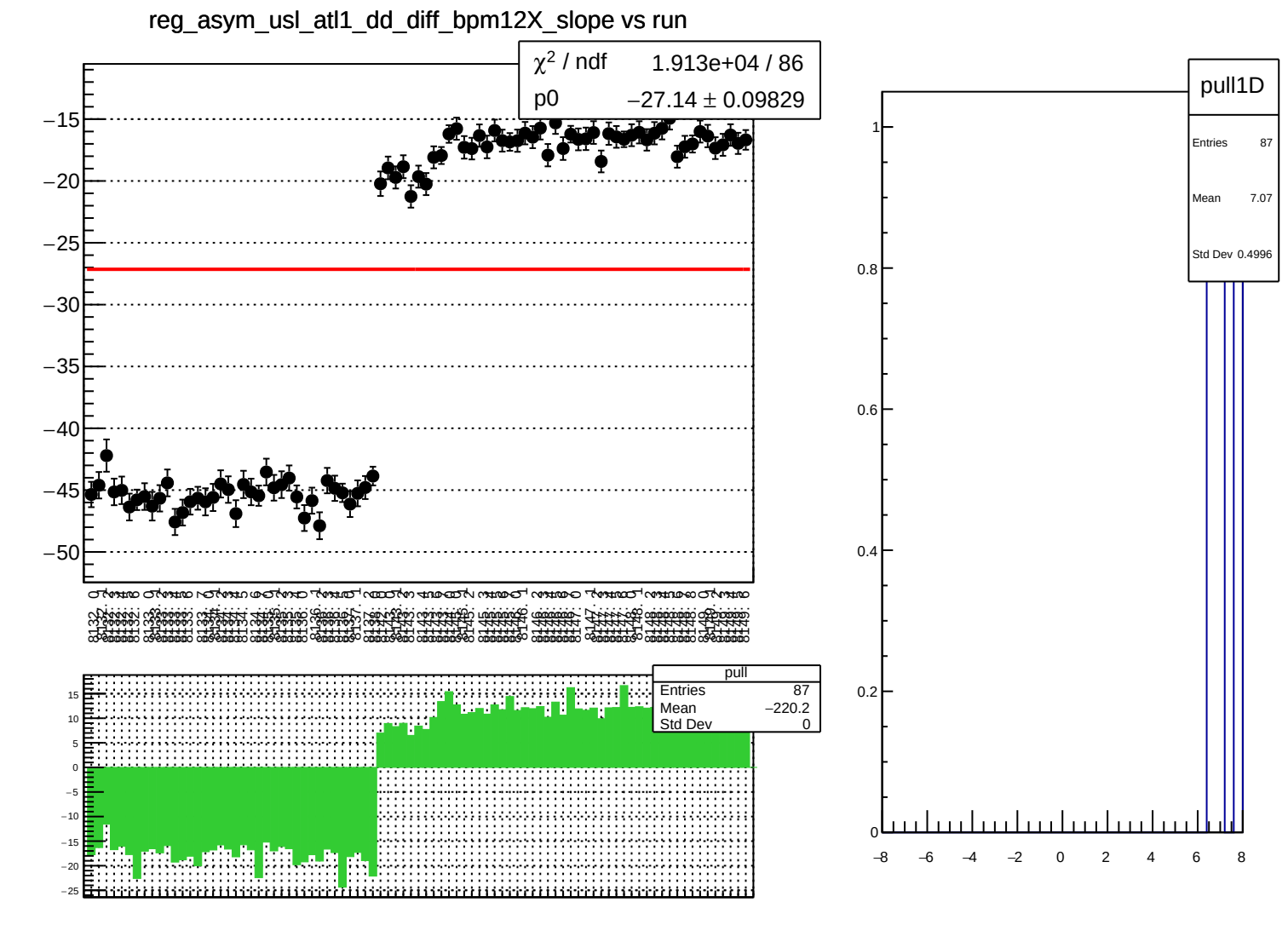

reg_asym_usl_atl1_dd_diff_bpm4aY_slope vs run
χ² / ndf 62.74 / 86
p0 11.6 ± 2.241
100
50
0
−50
−100
pull
Entries 87
Mean −61.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

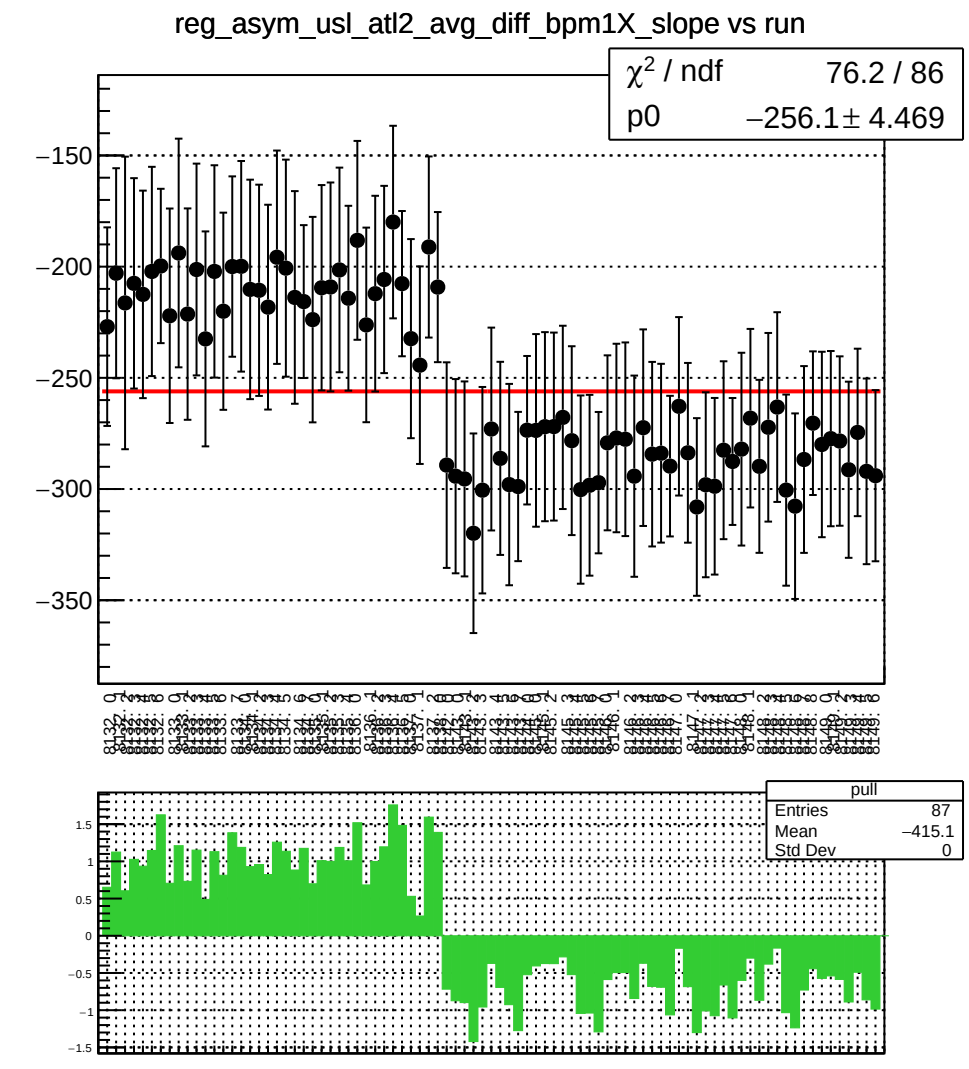

pull1D
Entries 87
Mean −0.009505
Std Dev 0.8491
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

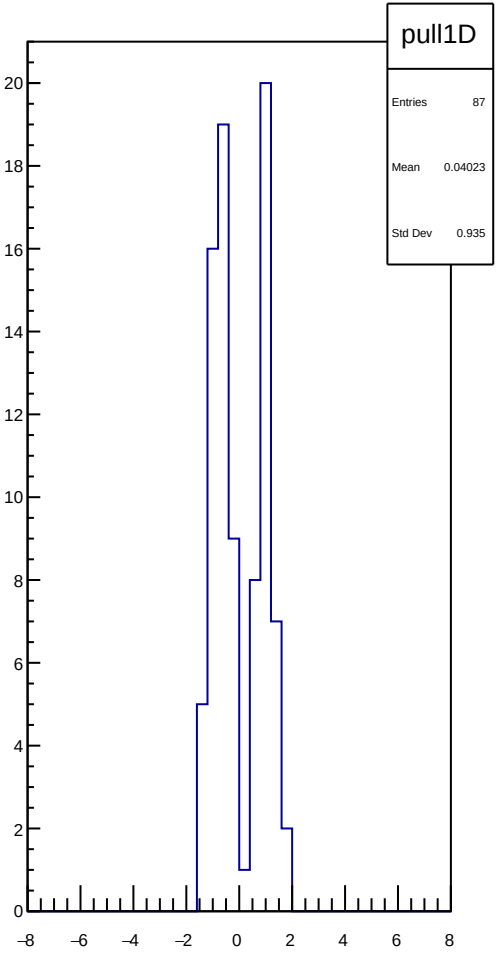

reg_asym_usl_atl1_dd_diff_bpm4eX_slope vs run
χ² / ndf 284.3 / 86
p0 −8.904 ± 1.205
pull
Entries 87
Mean −48.06
Std Dev 0

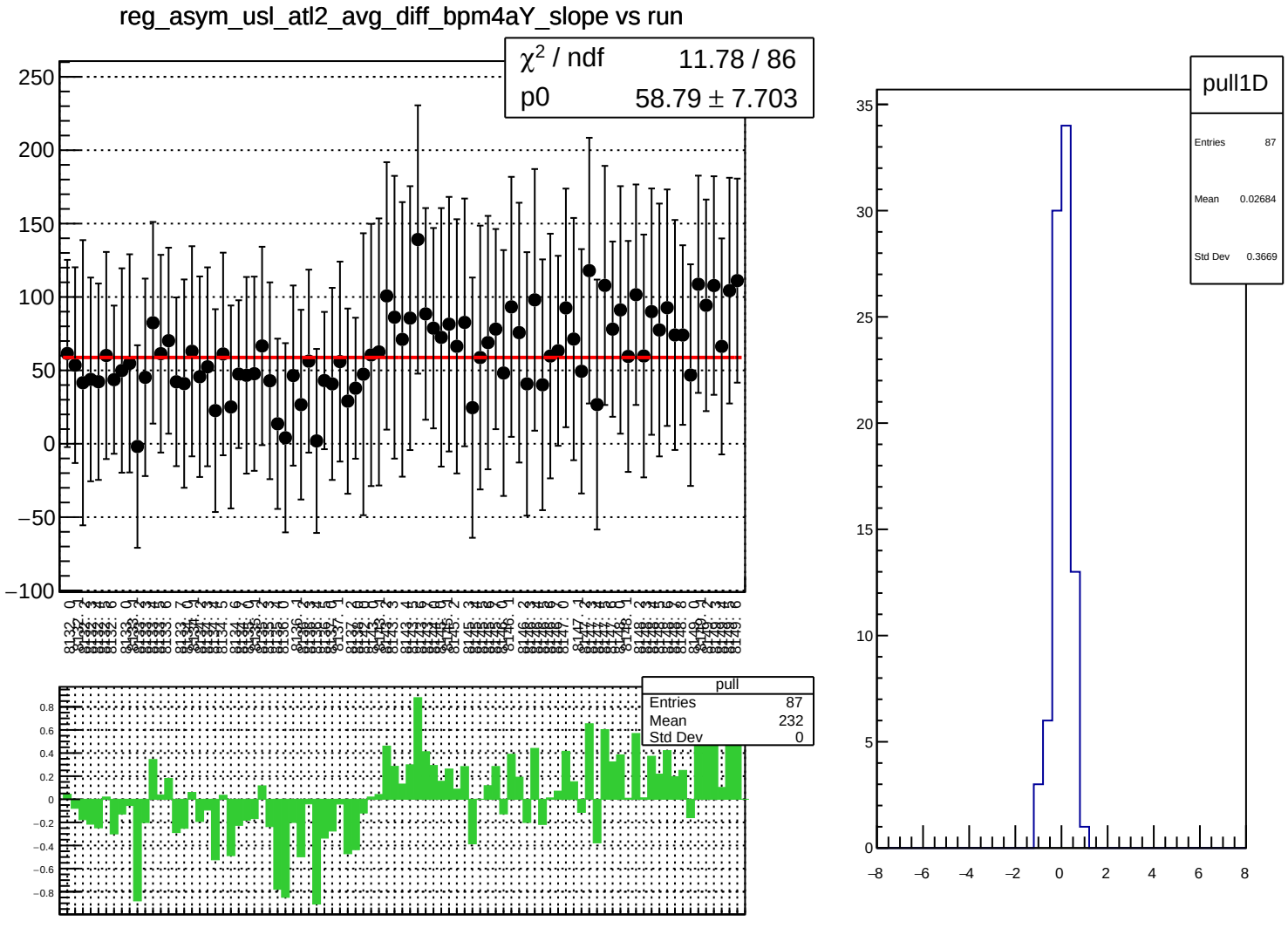

pull1D
Entries 87
Mean 0.3602
Std Dev 1.771

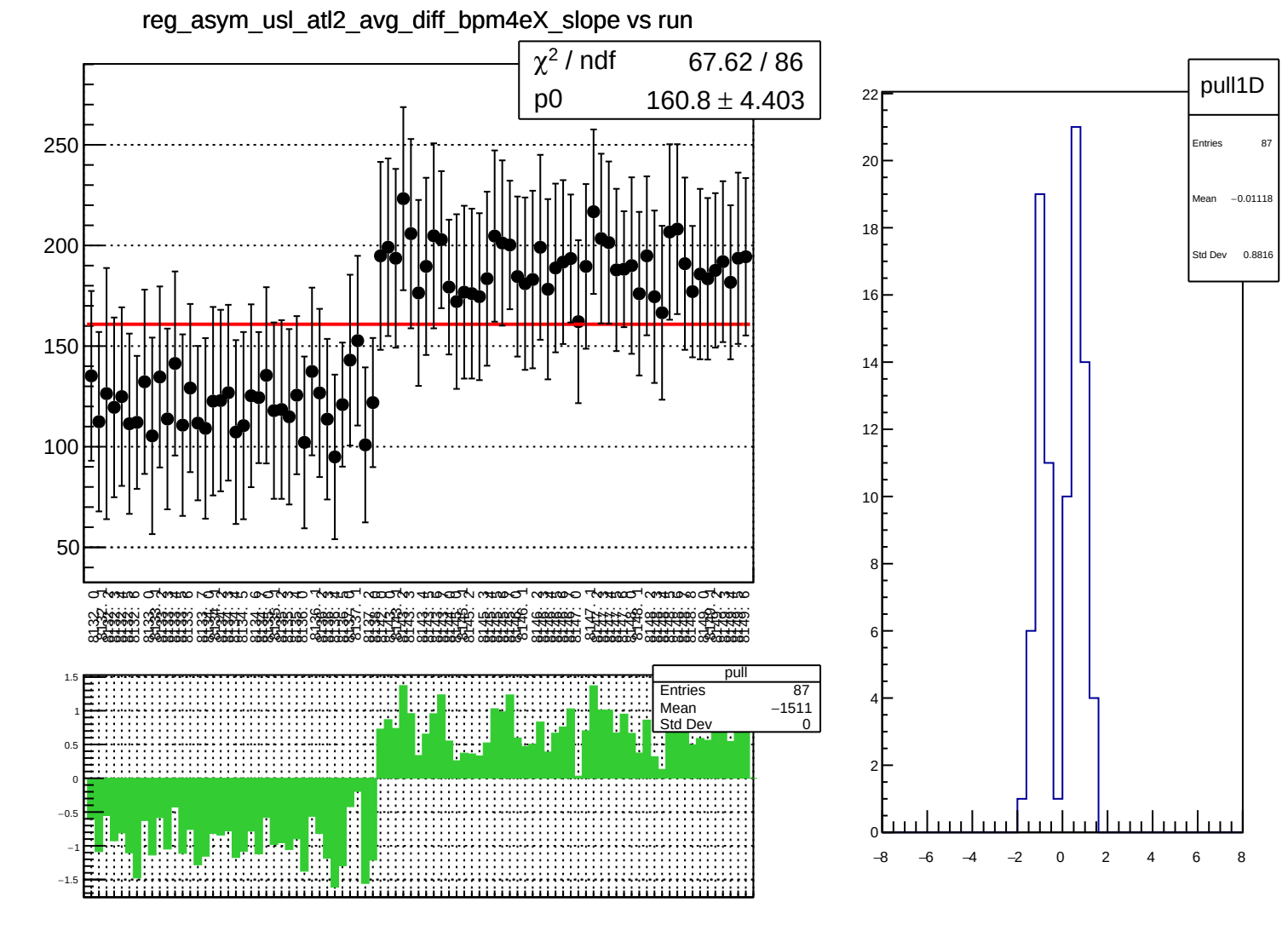

reg_asym_usl_atl1_dd_diff_bpm4eY_slope vs run
χ² / ndf 65.9 / 86
p0 5.515 ± 2.398
150
100
50
0
−50
pull
Entries 87
Mean −97.72
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.03398
Std Dev 0.8697
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

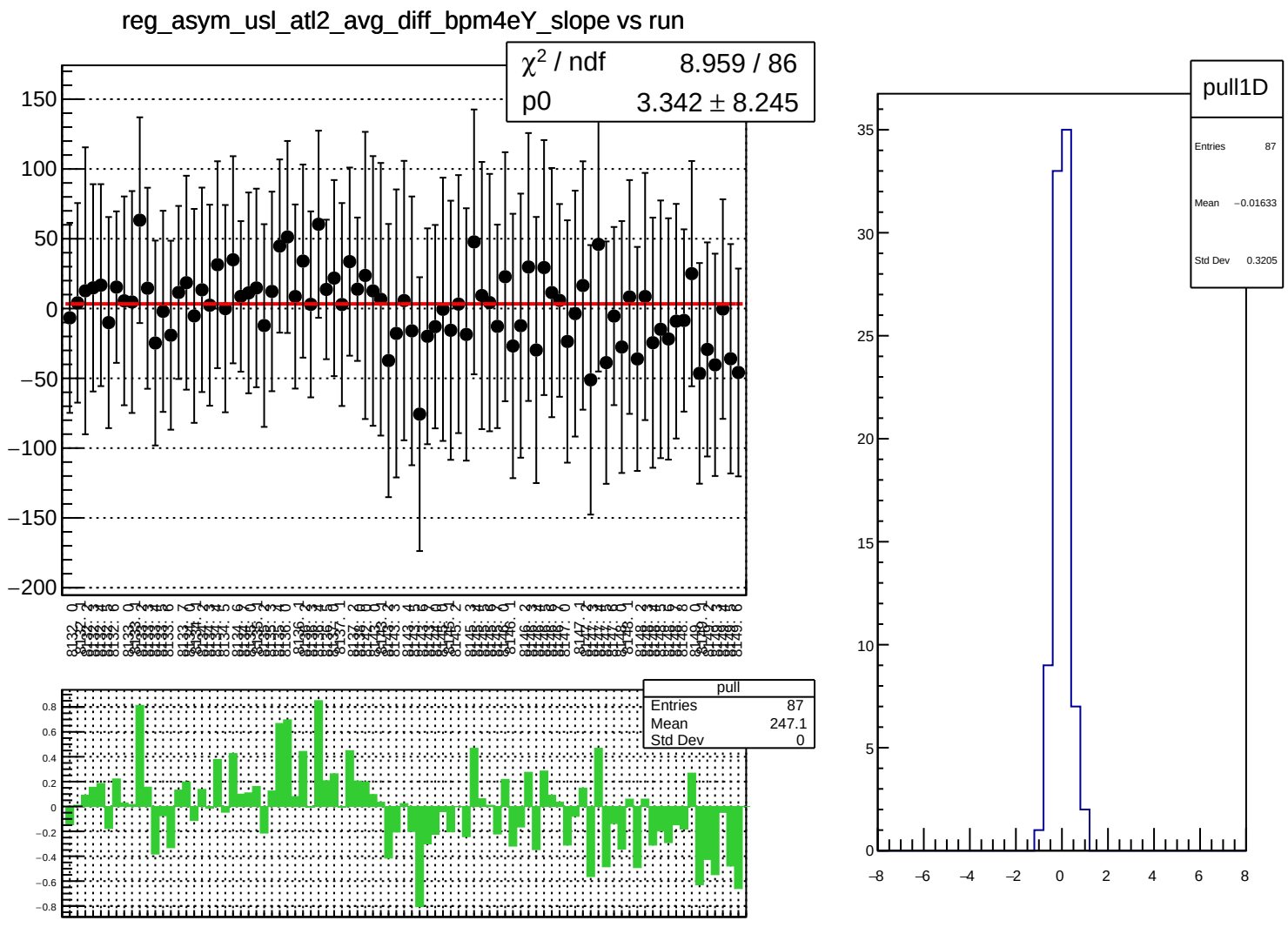

reg_asym_usl_atl1_dd_diff_bpm12X_slope vs run
χ² / ndf 1.913e+04 / 86
p0 −27.14 ± 0.09829
pull
Entries 87
Mean −220.2
Std Dev 0
pull1D
Entries 87
Mean 7.07
Std Dev 0.4996

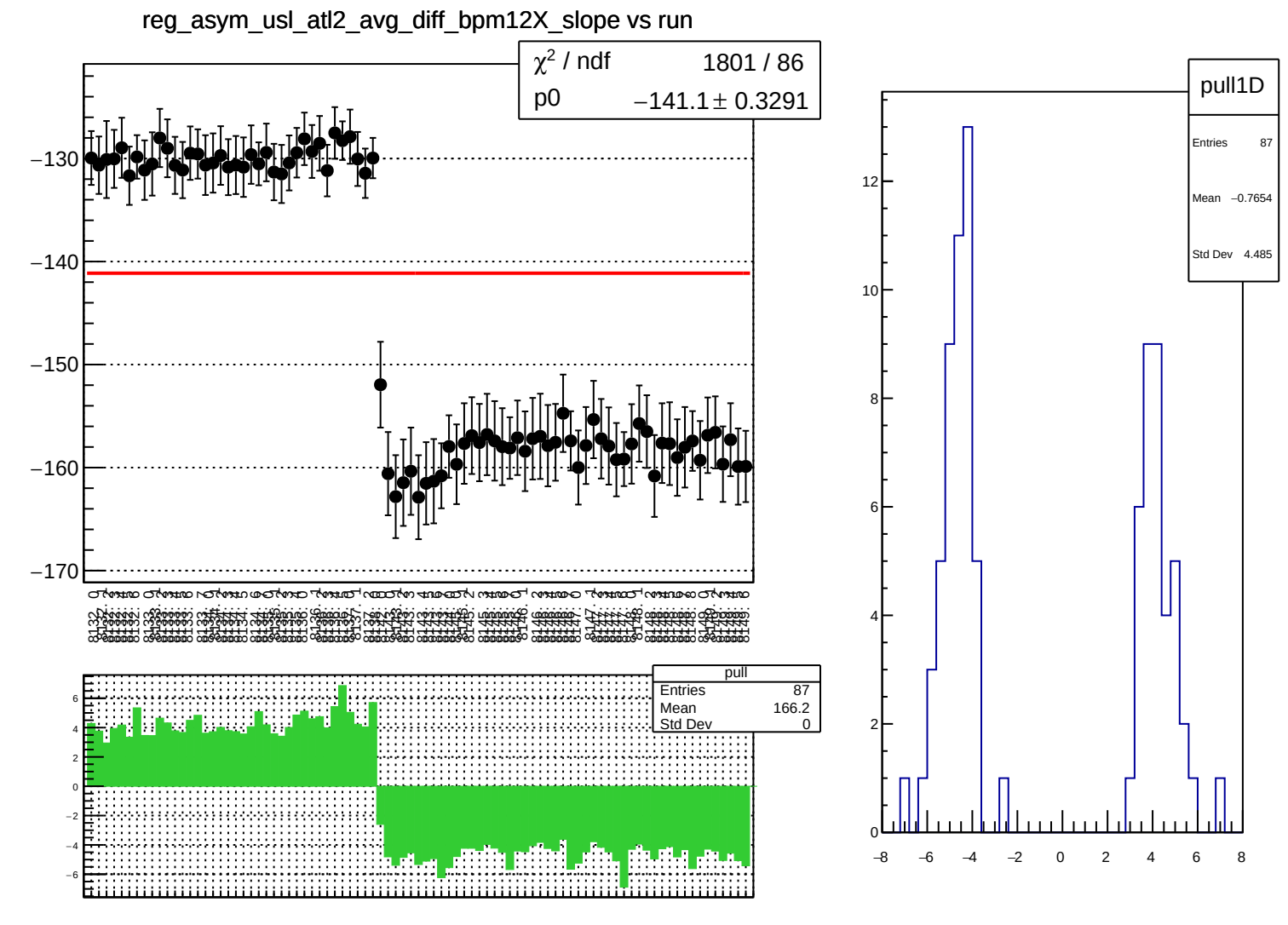

reg_asym_usl_atl2_avg_diff_bpm1X_slope vs run
χ² / ndf 76.2 / 86
p0 −256.1 ± 4.469
pull
Entries 87
Mean −415.1
Std Dev 0

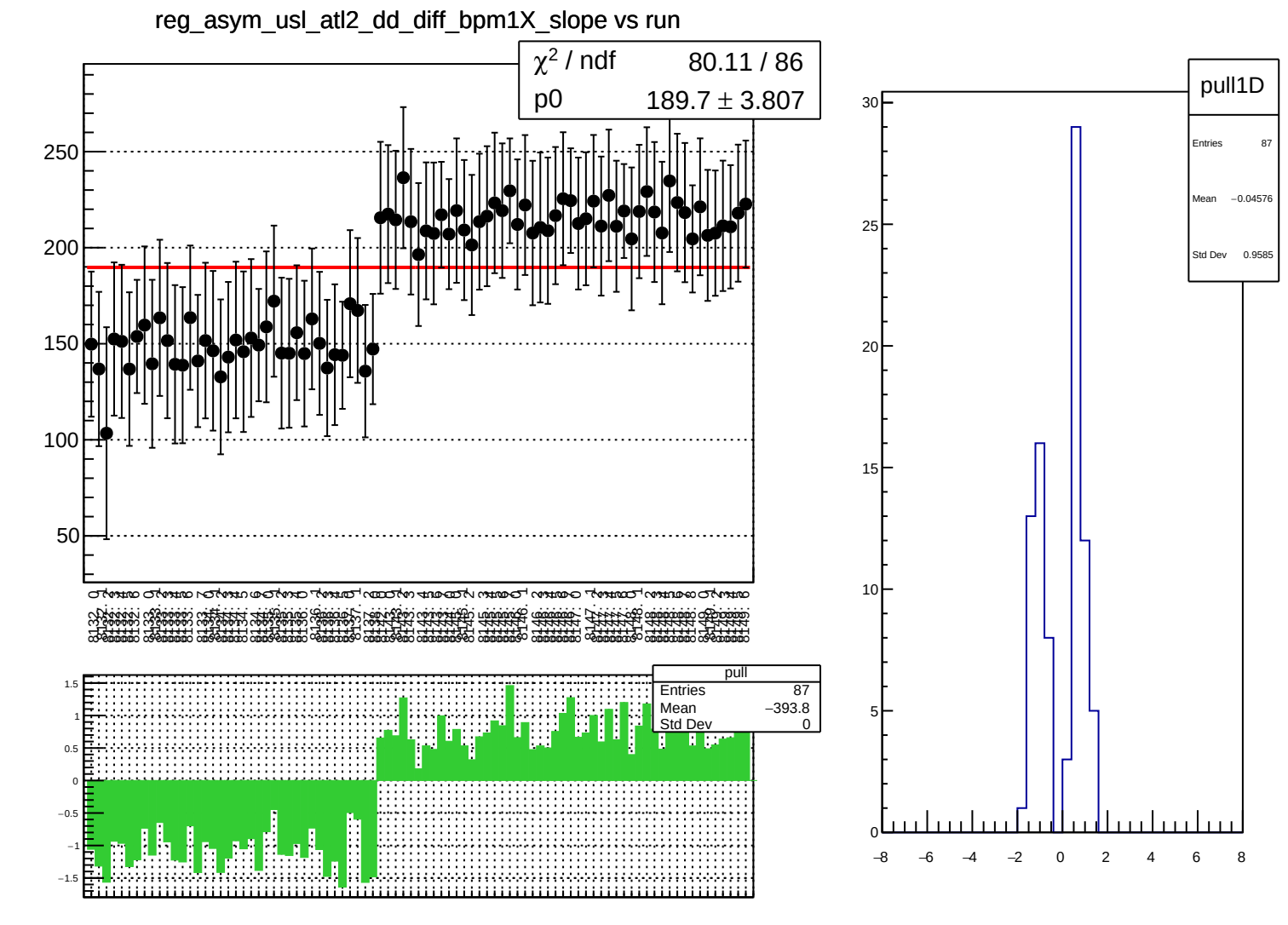

pull1D
Entries 87
Mean 0.04023
Std Dev 0.935

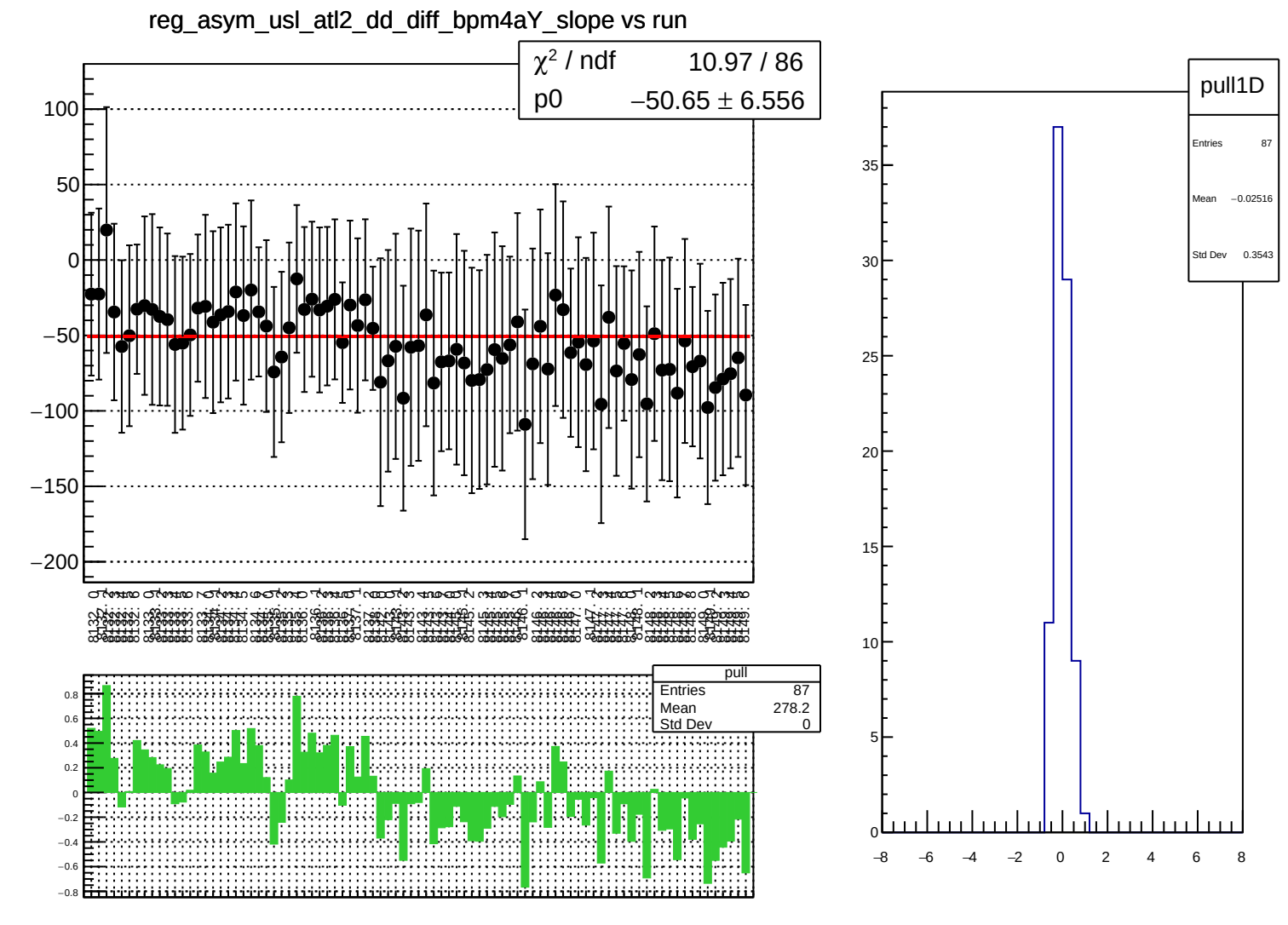

reg_asym_usl_atl2_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.78 / 86
p0 58.79 ± 7.703
pull
Entries 87
Mean 232
Std Dev 0
pull1D
Entries 87
Mean 0.02684
Std Dev 0.3669

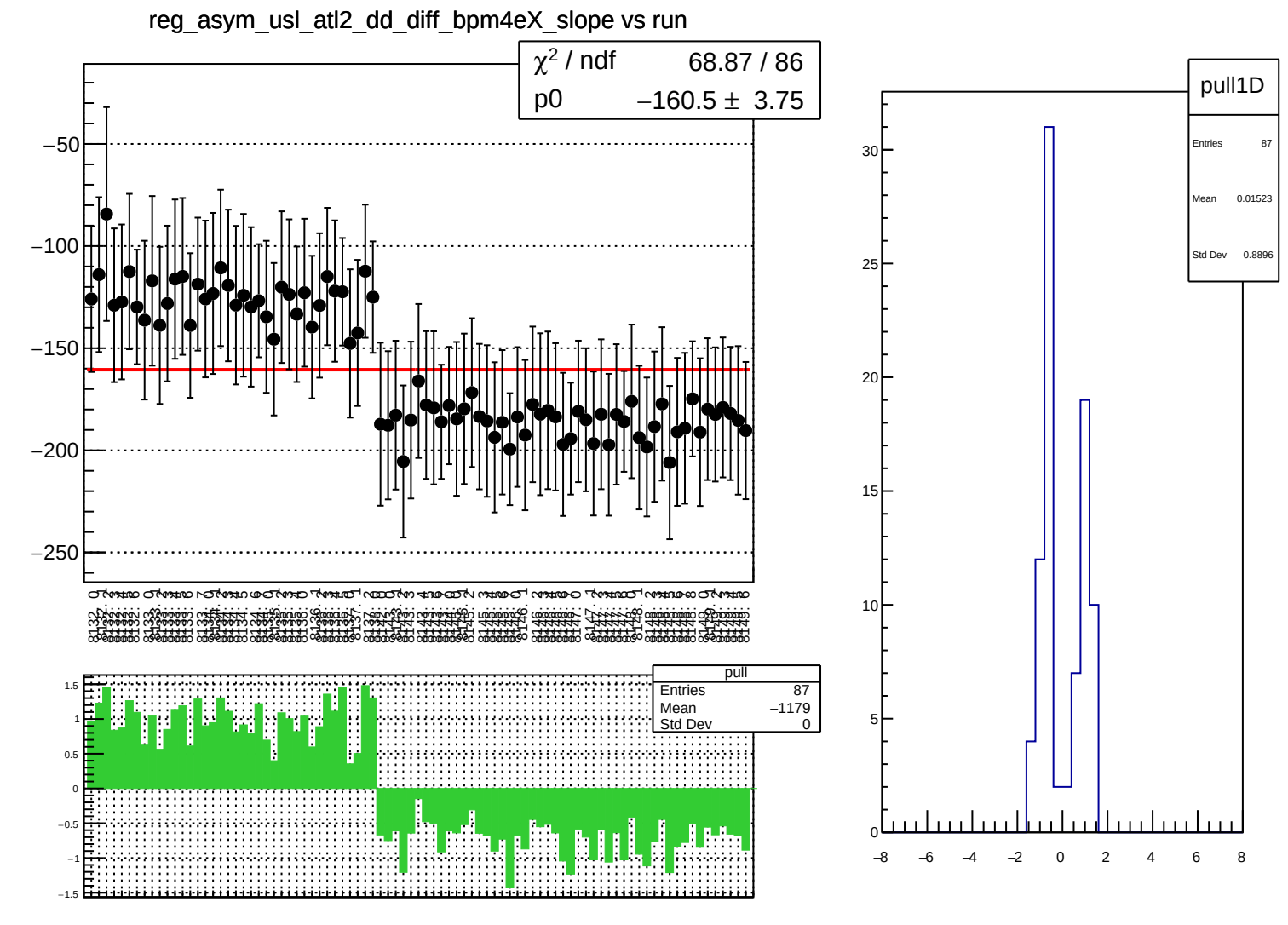

reg_asym_usl_atl2_avg_diff_bpm4eX_slope vs run
χ² / ndf 67.62 / 86
p0 160.8 ± 4.403
250
200
150
100
50
pull
Entries 87
Mean −1511
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 87
Mean −0.01118
Std Dev 0.8816
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

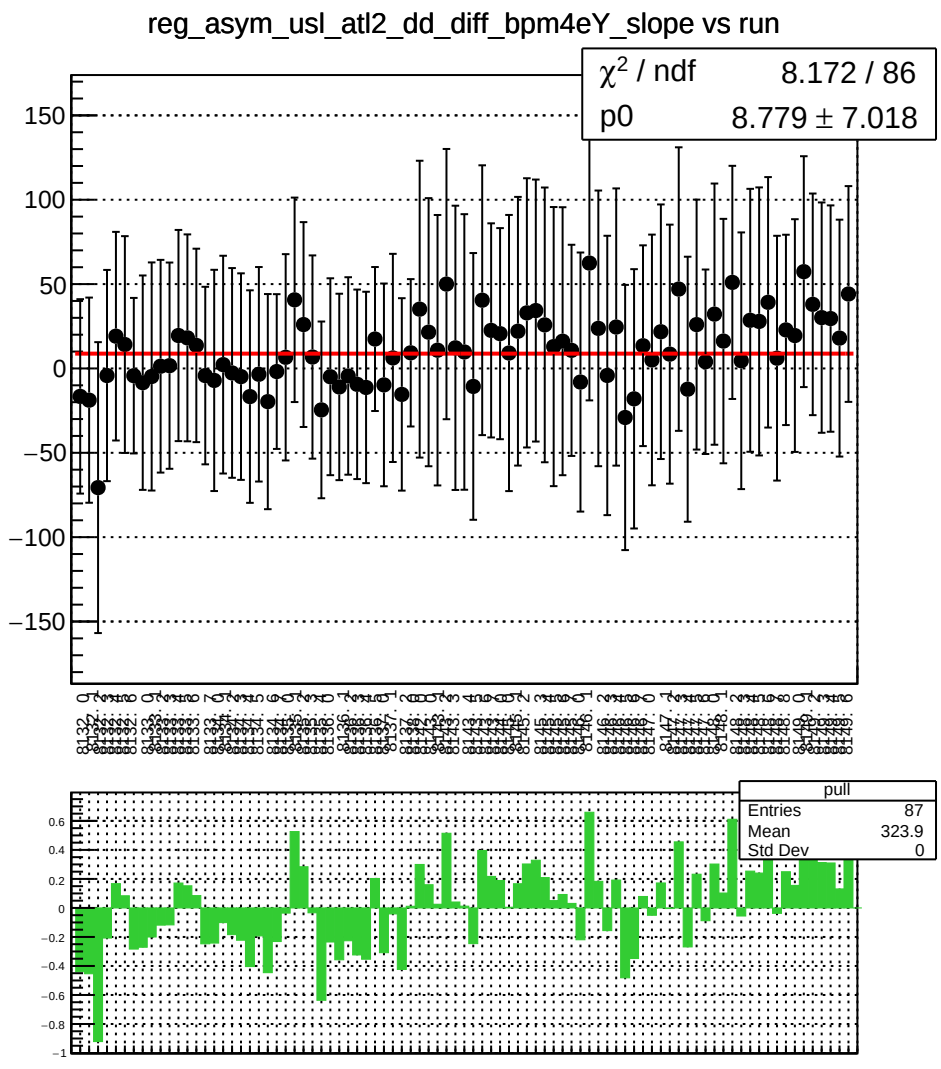

reg_asym_usl_atl2_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.959 / 86
p0 3.342 ± 8.245
pull
Entries 87
Mean 247.1
Std Dev 0
pull1D
Entries 87
Mean −0.01633
Std Dev 0.3205

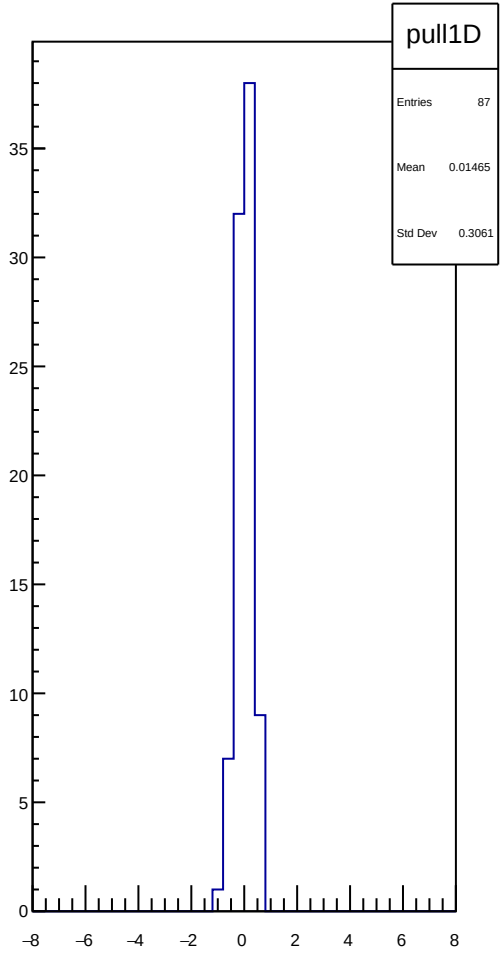

reg_asym_usl_atl2_avg_diff_bpm12X_slope vs run
χ² / ndf 1801 / 86
p0 −141.1 ± 0.3291
−130
−140
−150
−160
−170
pull
Entries 87
Mean 166.2
Std Dev 0
pull1D
Entries 87
Mean −0.7654
Std Dev 4.485

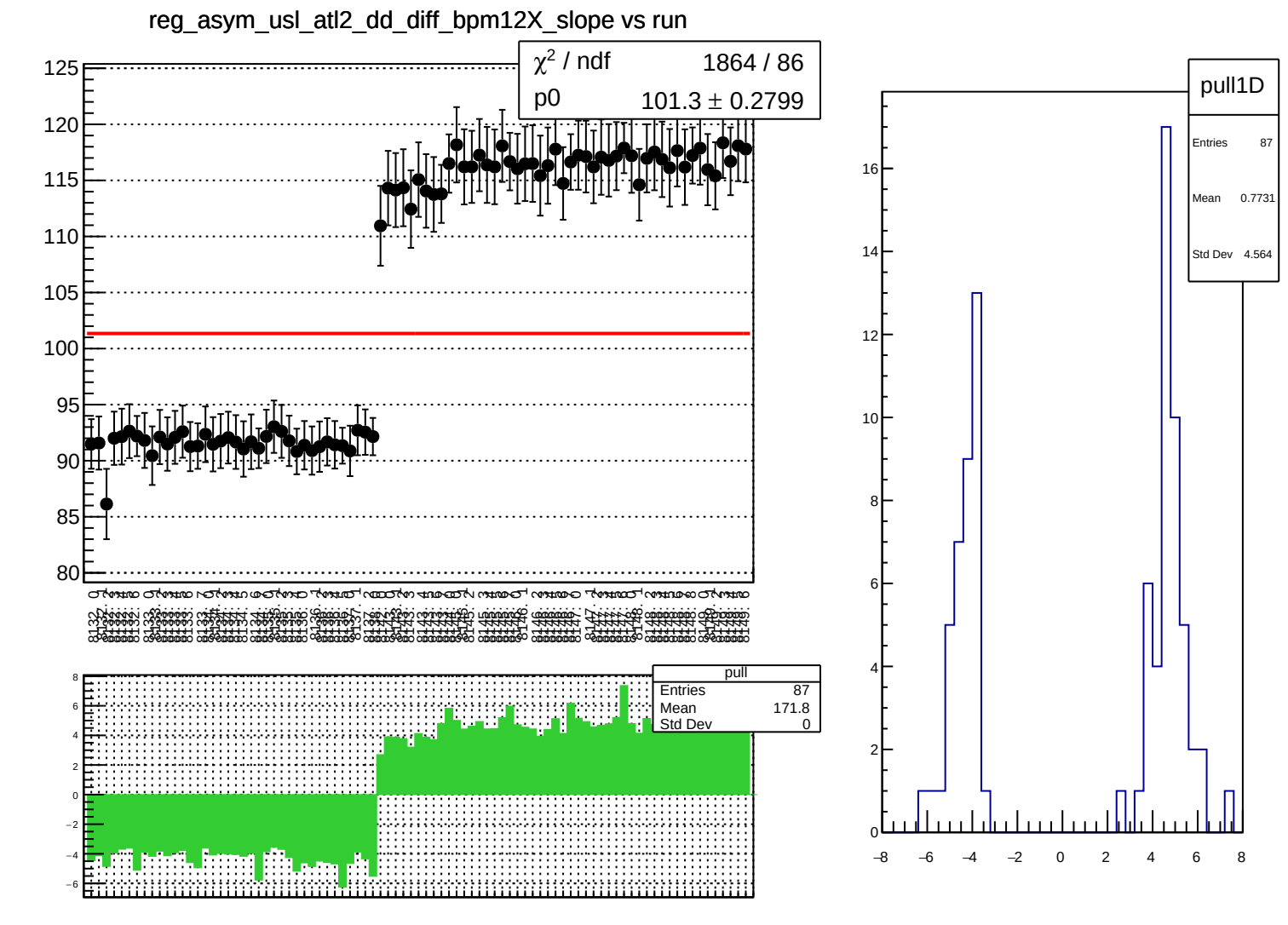

reg_asym_usl_atl2_dd_diff_bpm1X_slope vs run
χ² / ndf 80.11 / 86
p0 189.7 ± 3.807
250
200
150
100
50
pull
Entries 87
Mean −393.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 87
Mean −0.04576
Std Dev 0.9585
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

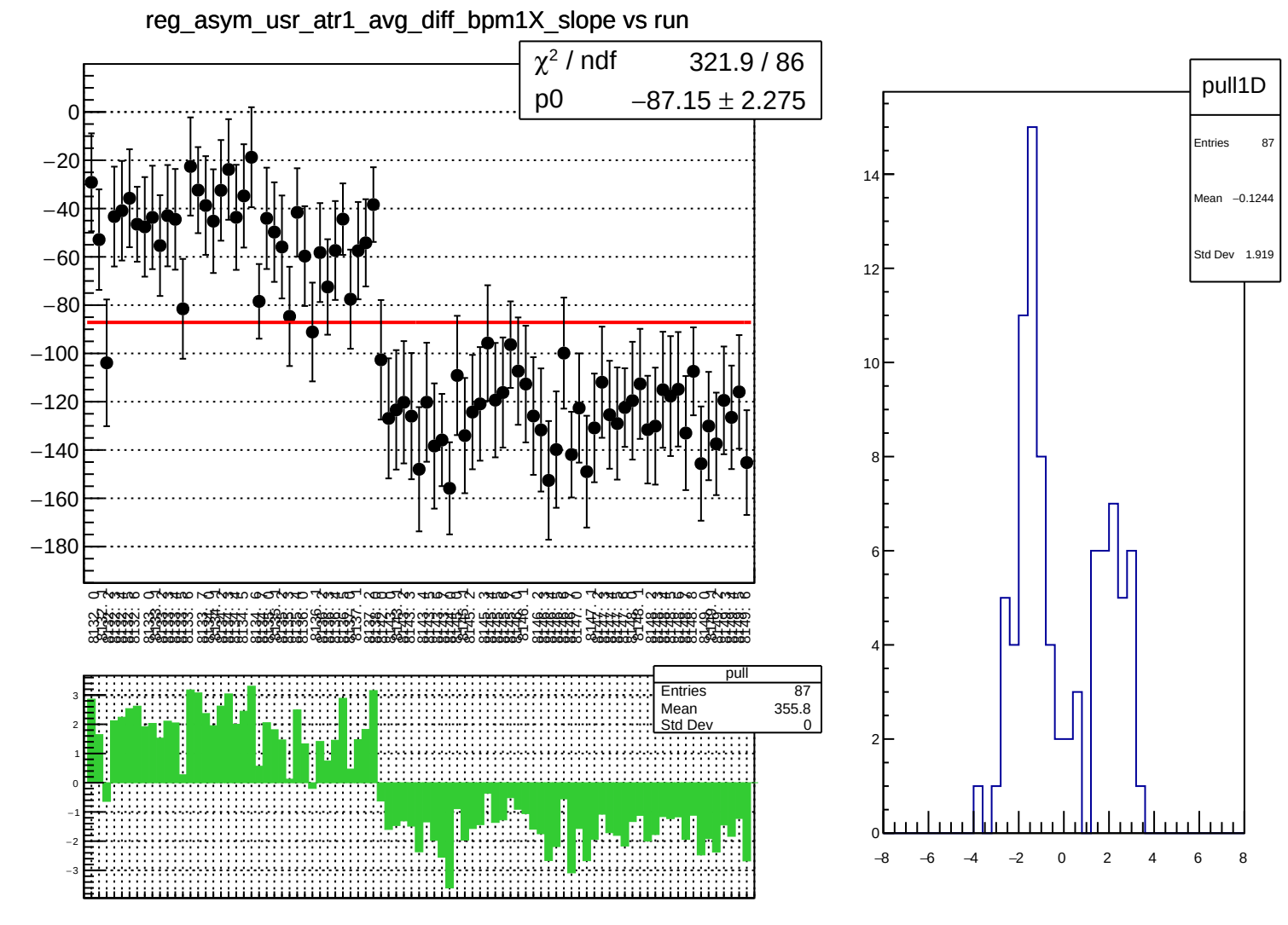

reg_asym_usl_atl2_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.97 / 86
p0 −50.65 ± 6.556
pull
Entries 87
Mean 278.2
Std Dev 0
pull1D
Entries 87
Mean −0.02516
Std Dev 0.3543

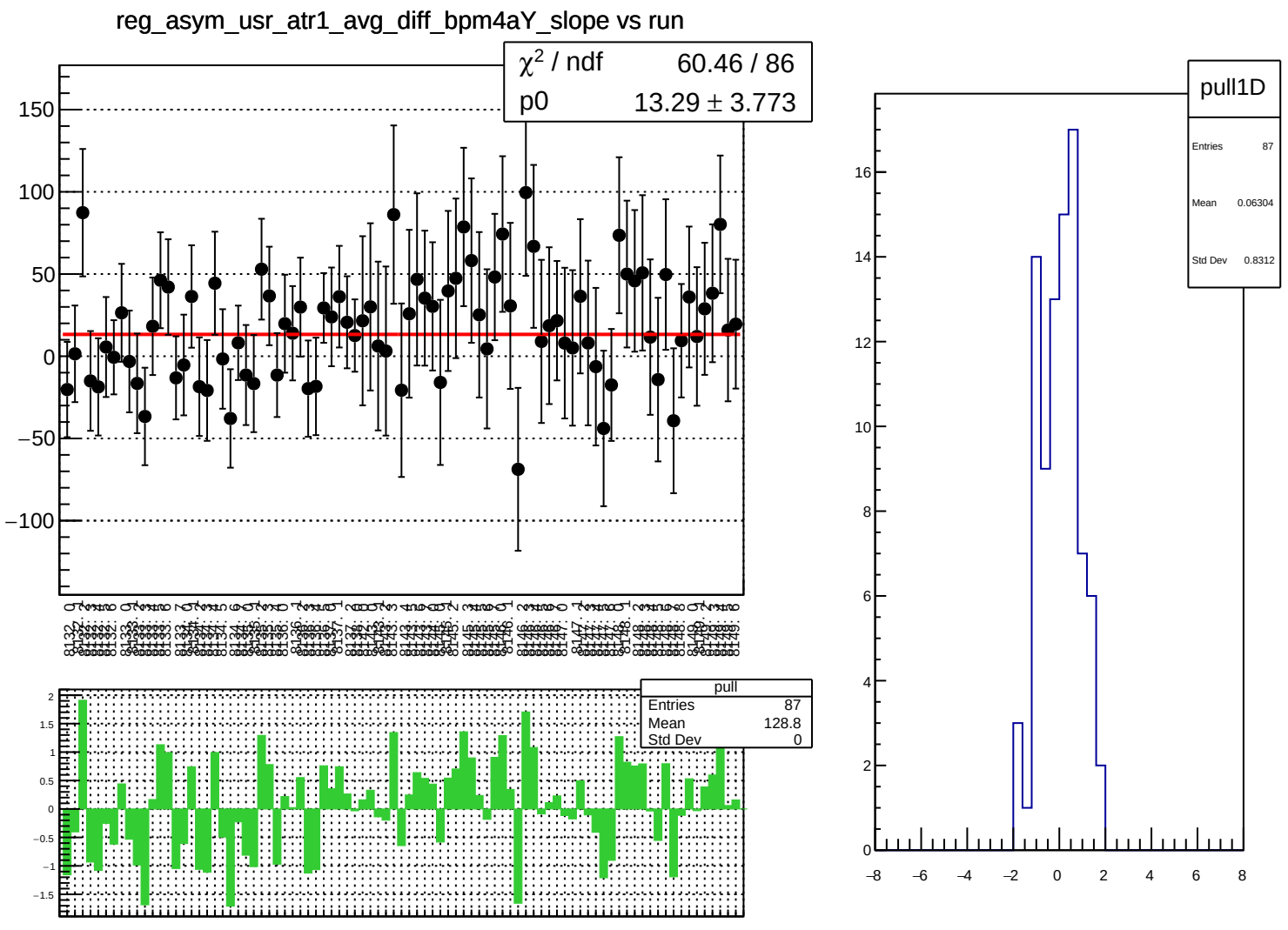

reg_asym_usl_atl2_dd_diff_bpm4eX_slope vs run
χ² / ndf 68.87 / 86
p0 −160.5 ± 3.75
pull
Entries 87
Mean −1179
Std Dev 0
pull1D
Entries 87
Mean 0.01523
Std Dev 0.8896

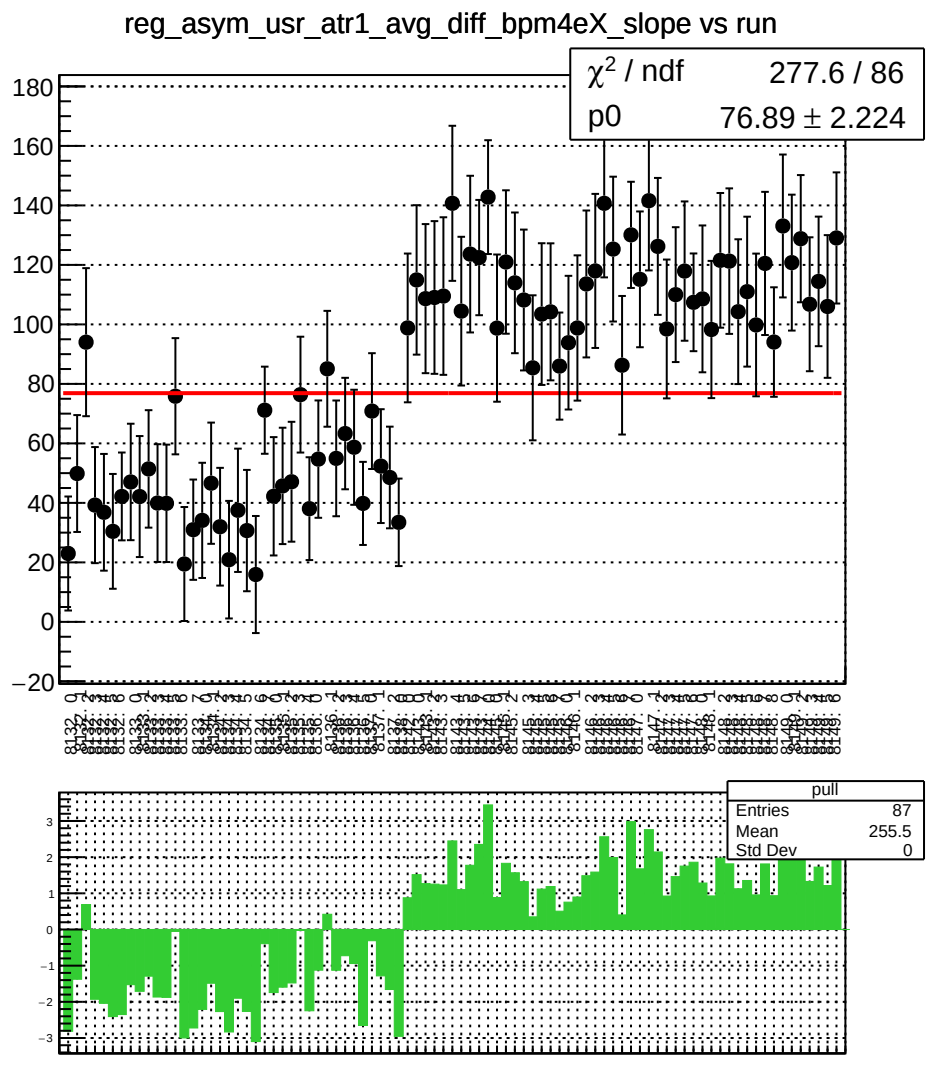

reg_asym_usl_atl2_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.172 / 86
p0 8.779 ± 7.018
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean 323.9
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

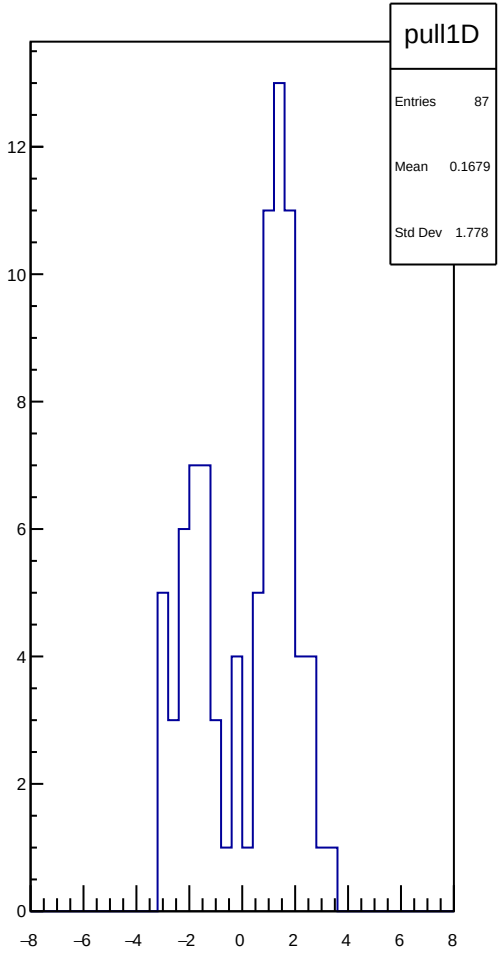

pull1D
Entries 87
Mean 0.01465
Std Dev 0.3061
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

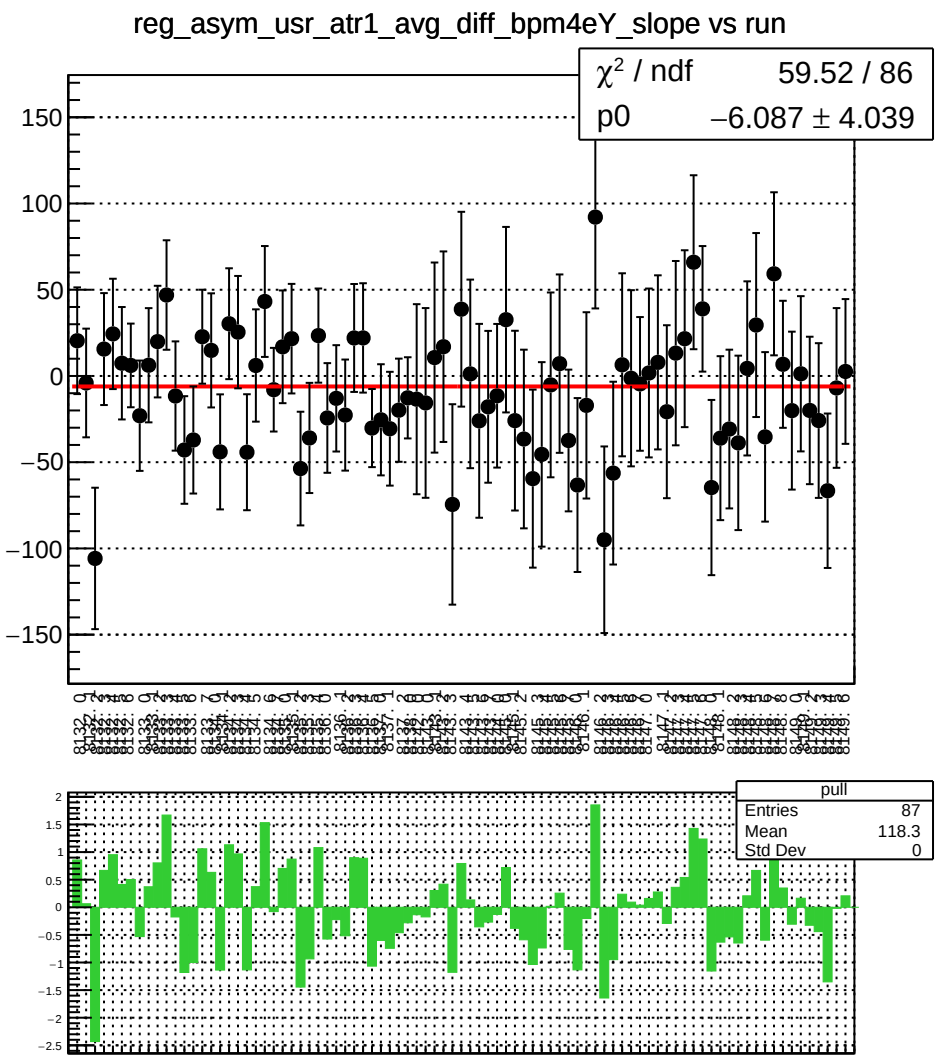

reg_asym_usl_atl2_dd_diff_bpm12X_slope vs run
χ² / ndf 1864 / 86
p0 101.3 ± 0.2799
pull
Entries 87
Mean 171.8
Std Dev 0
pull1D
Entries 87
Mean 0.7731
Std Dev 4.564

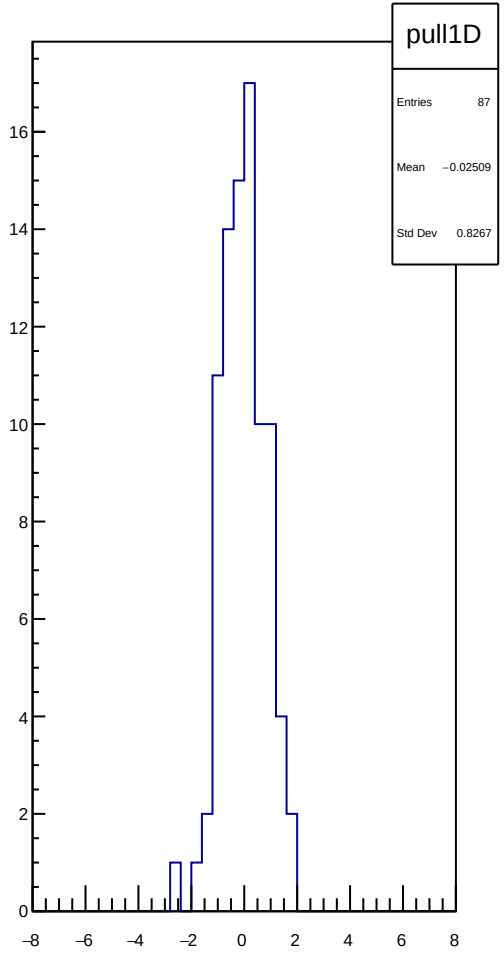

reg_asym_usr_atr1_avg_diff_bpm1X_slope vs run
χ² / ndf 321.9 / 86
p0 −87.15 ± 2.275
pull
Entries 87
Mean 355.8
Std Dev 0
pull1D
Entries 87
Mean −0.1244
Std Dev 1.919

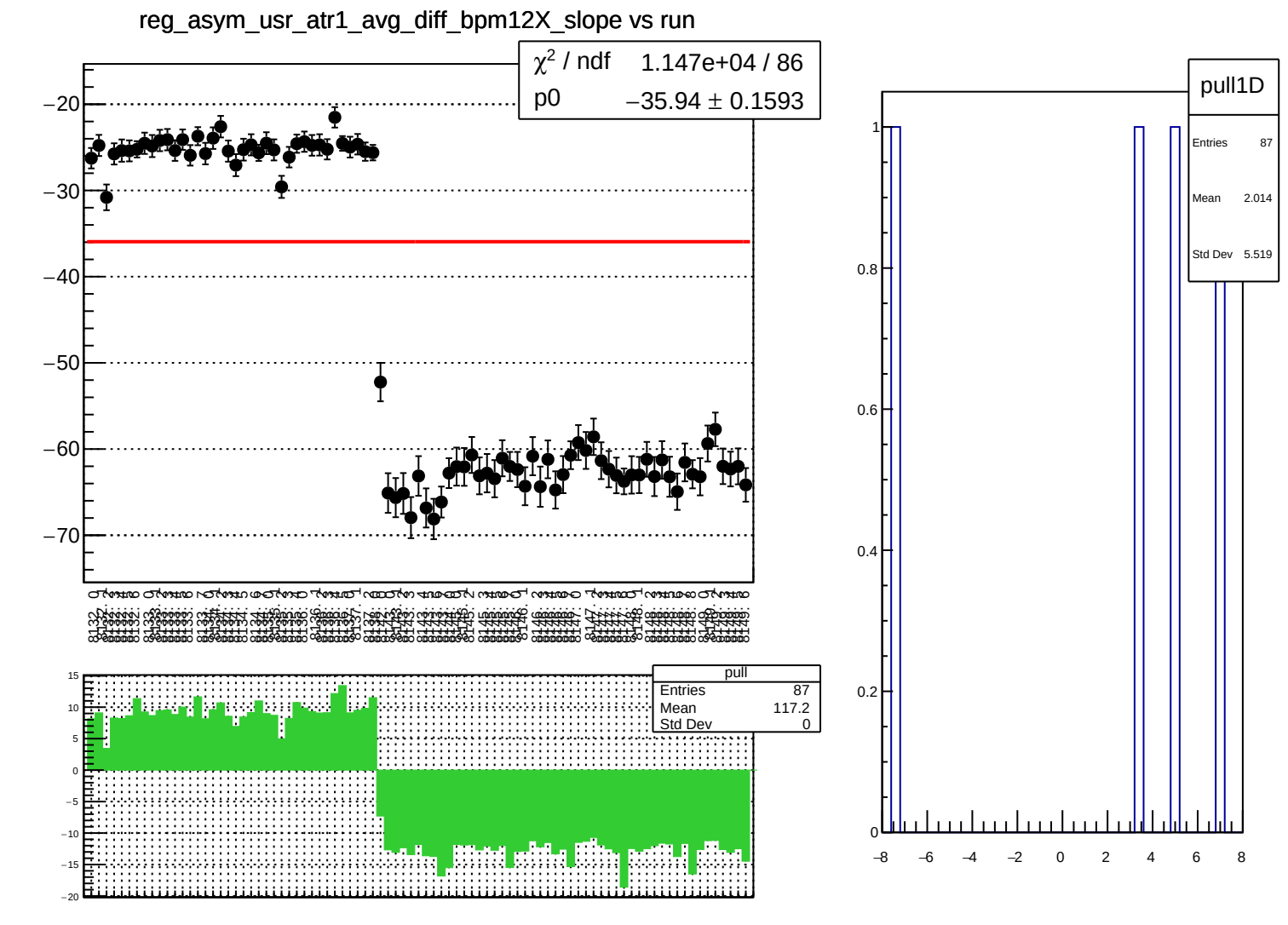

reg_asym_usr_atr1_avg_diff_bpm4aY_slope vs run
χ² / ndf 60.46 / 86
p0 13.29 ± 3.773
150
100
50
0
−50
−100
pull
Entries 87
Mean 128.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 87
Mean 0.06304
Std Dev 0.8312
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

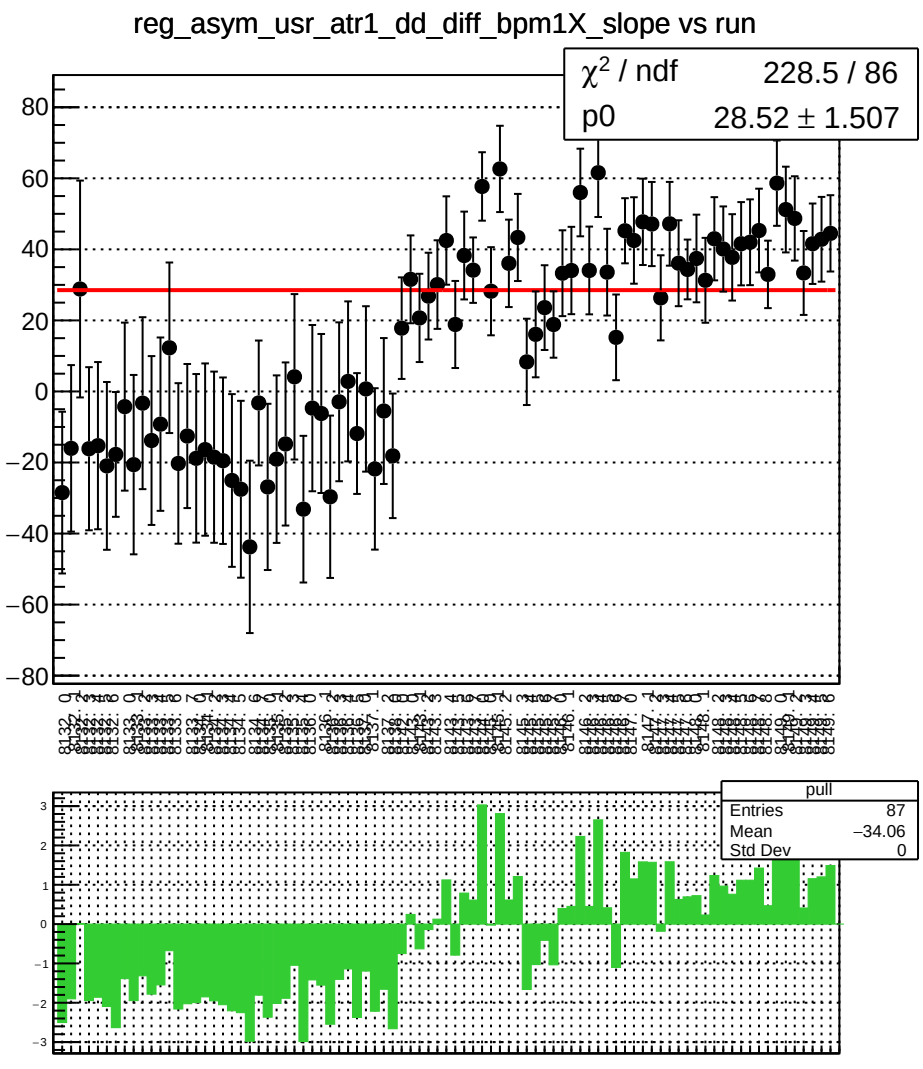

reg_asym_usr_atr1_avg_diff_bpm4eX_slope vs run
χ² / ndf 277.6 / 86
p0 76.89 ± 2.224
pull
Entries 87
Mean 255.5
Std Dev 0

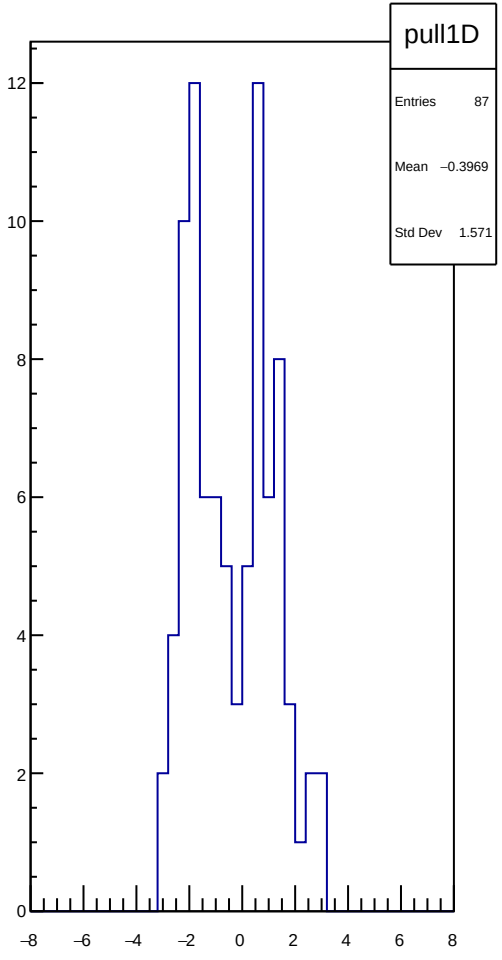

pull1D
Entries 87
Mean 0.1679
Std Dev 1.778

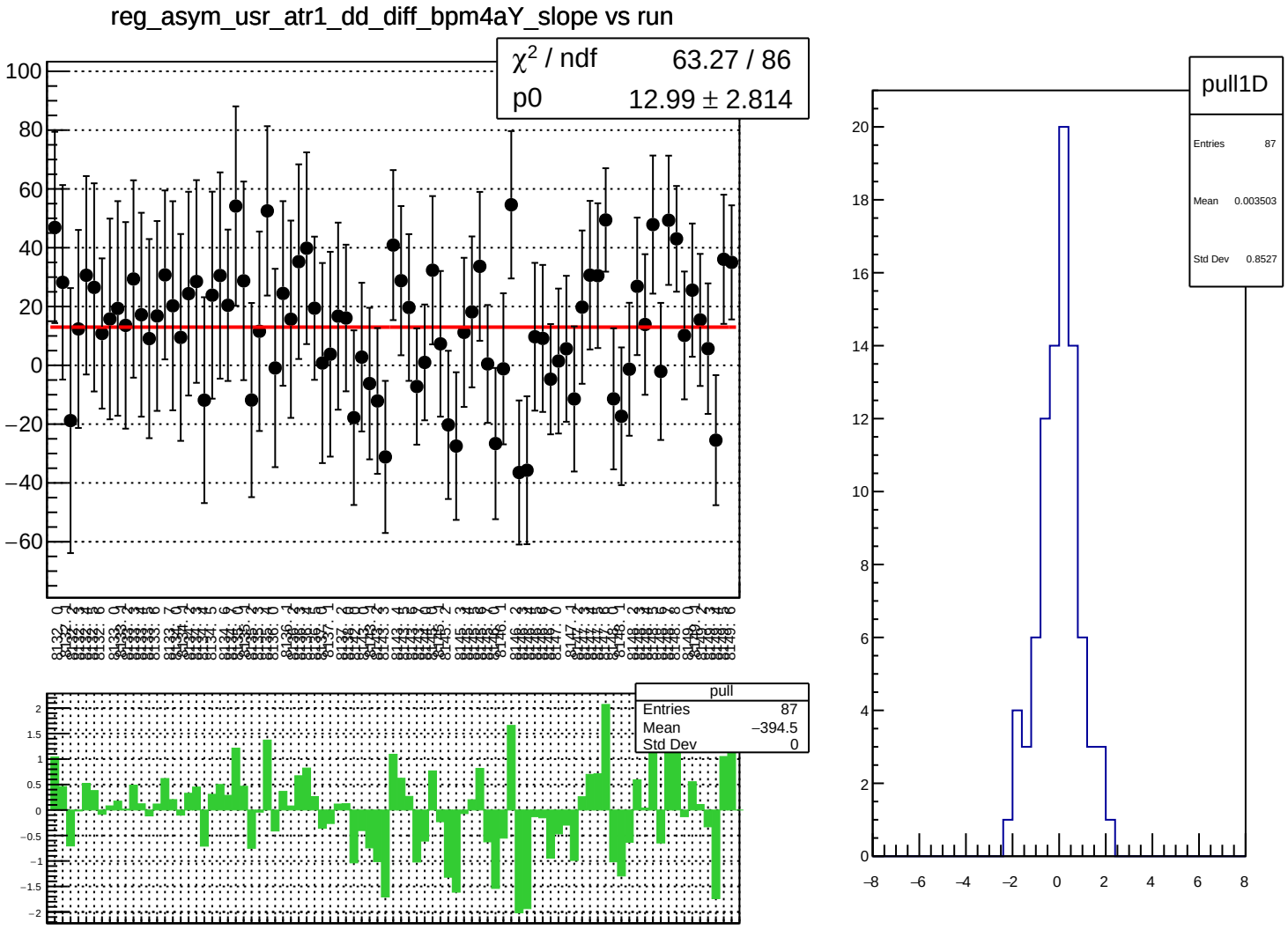

reg_asym_usr_atr1_avg_diff_bpm4eY_slope vs run
χ² / ndf 59.52 / 86
p0 −6.087 ± 4.039
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean 118.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

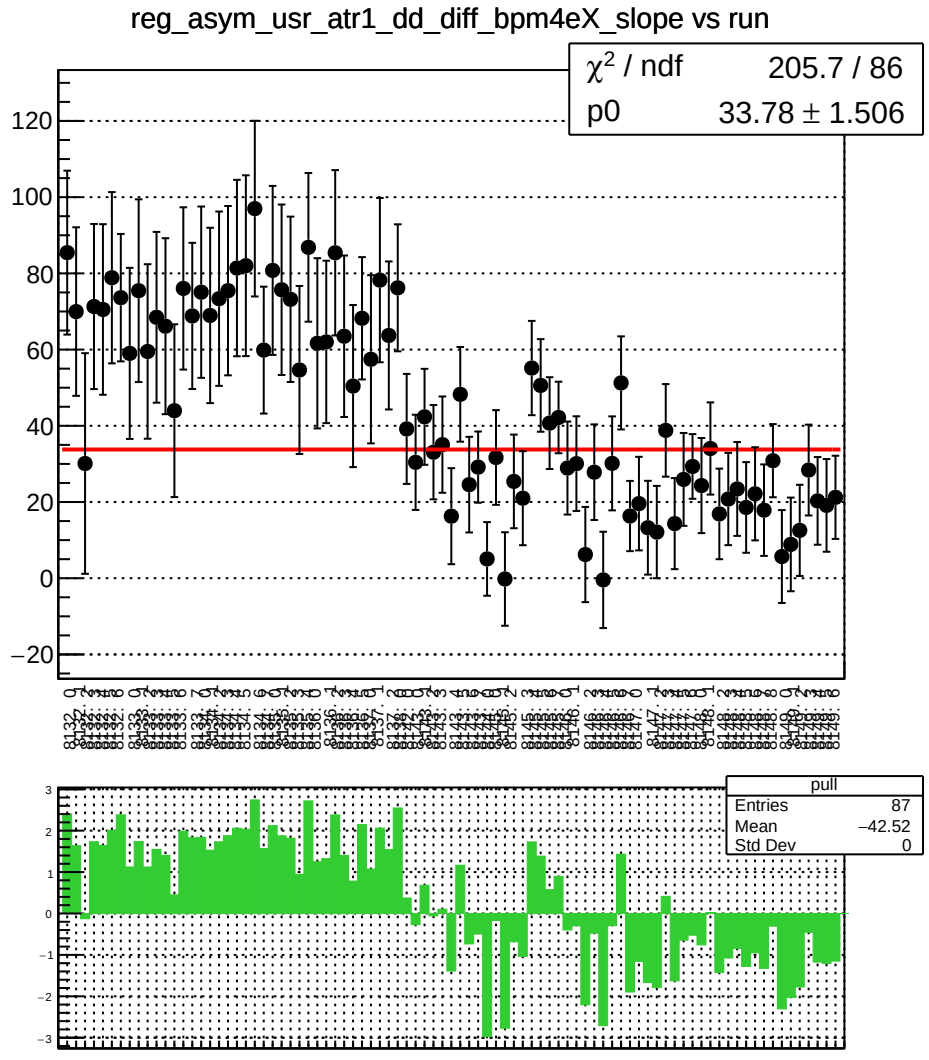

pull1D
Entries 87
Mean −0.02509
Std Dev 0.8267
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

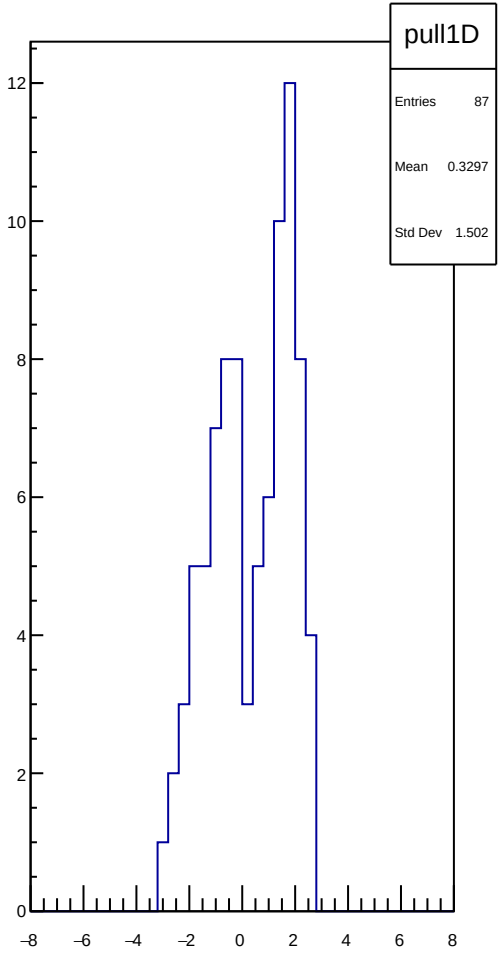

reg_asym_usr_atr1_avg_diff_bpm12X_slope vs run
χ² / ndf 1.147e+04 / 86
p0 −35.94 ± 0.1593
pull
Entries 87
Mean 117.2
Std Dev 0
pull1D
Entries 87
Mean 2.014
Std Dev 5.519

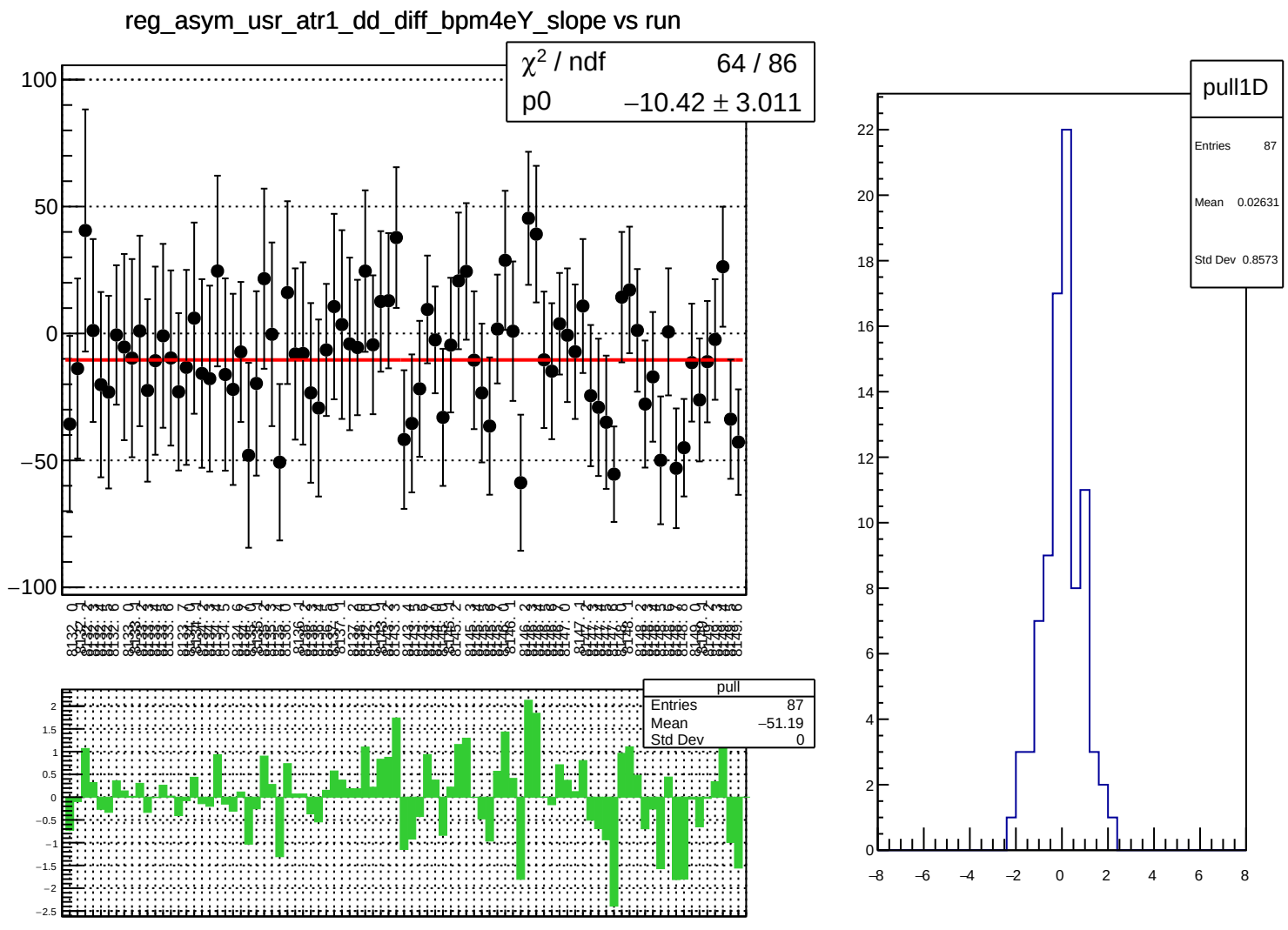

reg_asym_usr_atr1_dd_diff_bpm1X_slope vs run
χ² / ndf 228.5 / 86
p0 28.52 ± 1.507
pull
Entries 87
Mean −34.06
Std Dev 0

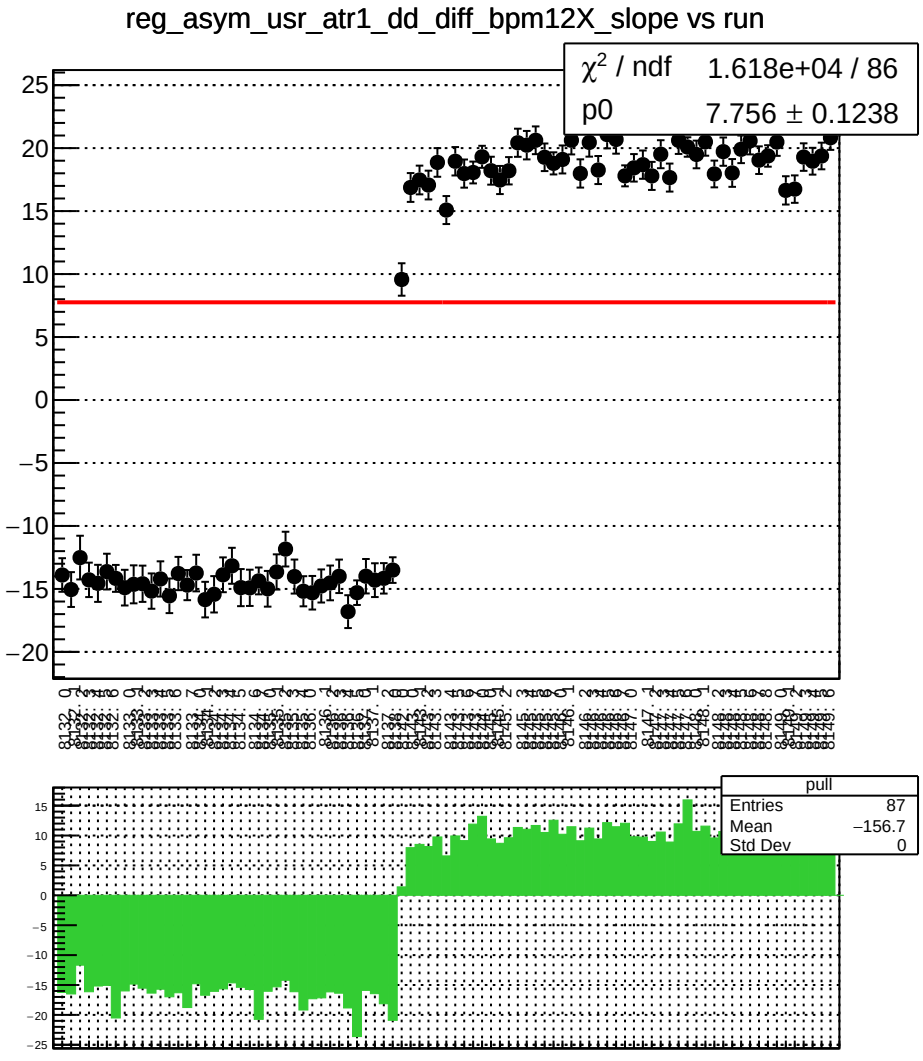

pull1D
Entries 87
Mean −0.3969
Std Dev 1.571

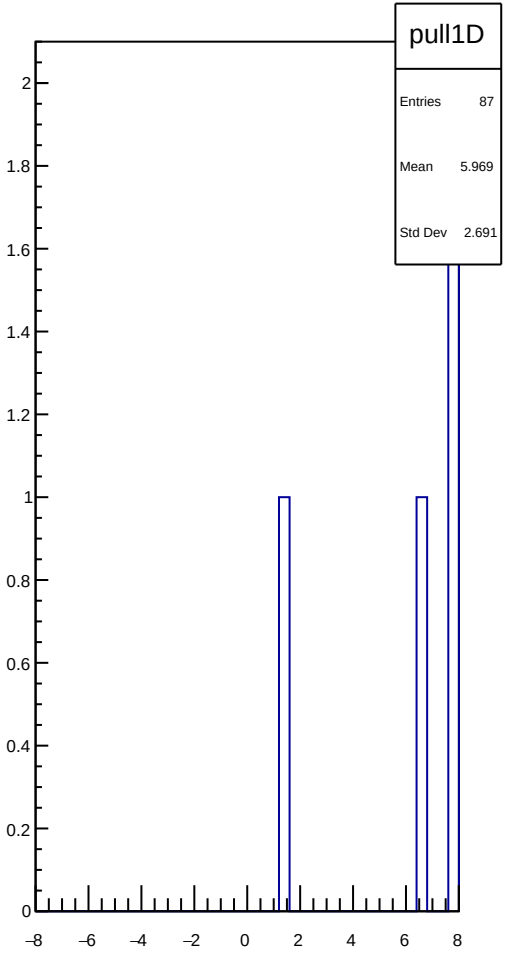

reg_asym_usr_atr1_dd_diff_bpm4aY_slope vs run
χ² / ndf 63.27 / 86
p0 12.99 ± 2.814
pull
Entries 87
Mean −394.5
Std Dev 0
pull1D
Entries 87
Mean 0.003503
Std Dev 0.8527

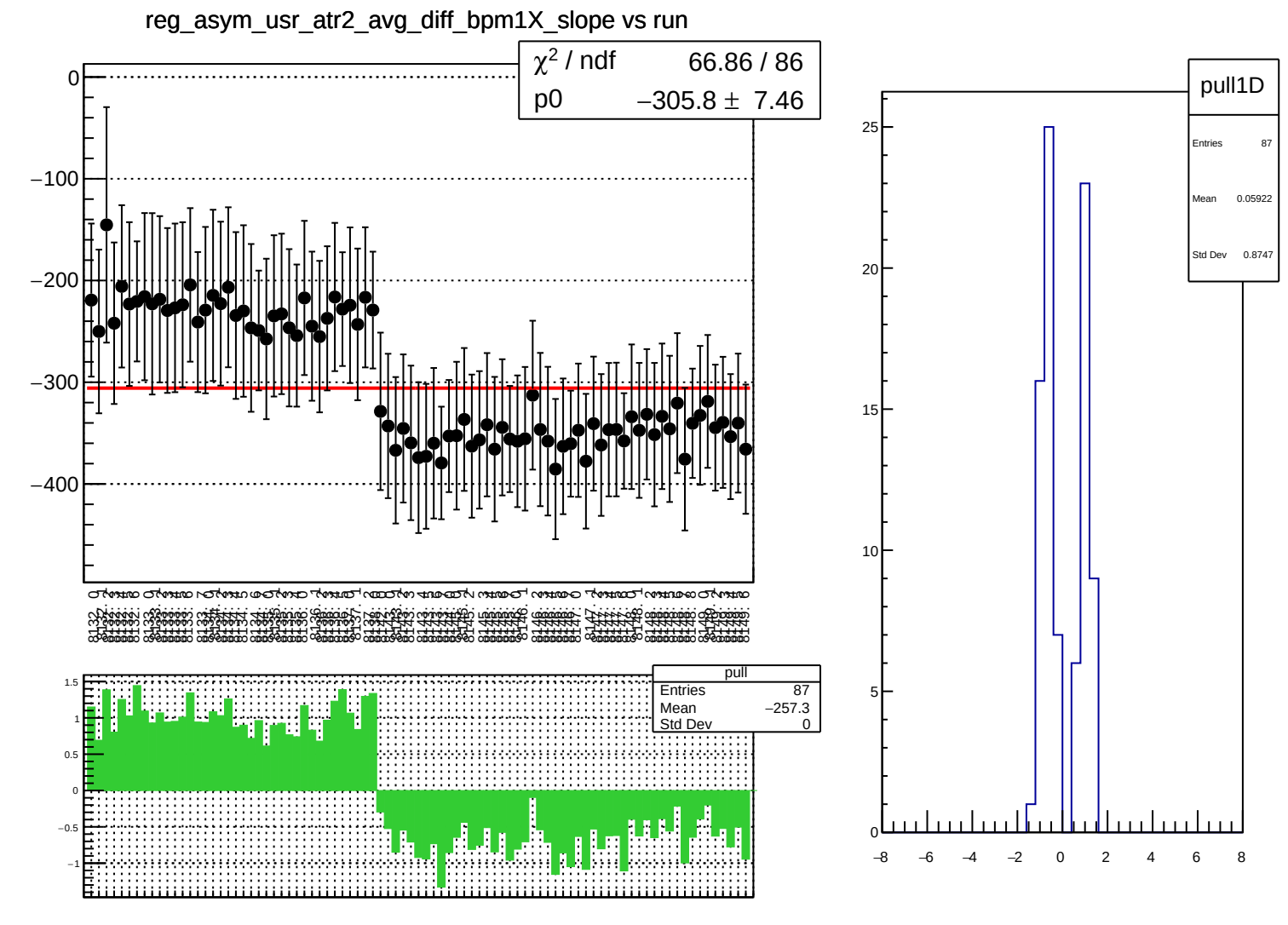

reg_asym_usr_atr1_dd_diff_bpm4eX_slope vs run
χ² / ndf 205.7 / 86
p0 33.78 ± 1.506
pull
Entries 87
Mean −42.52
Std Dev 0

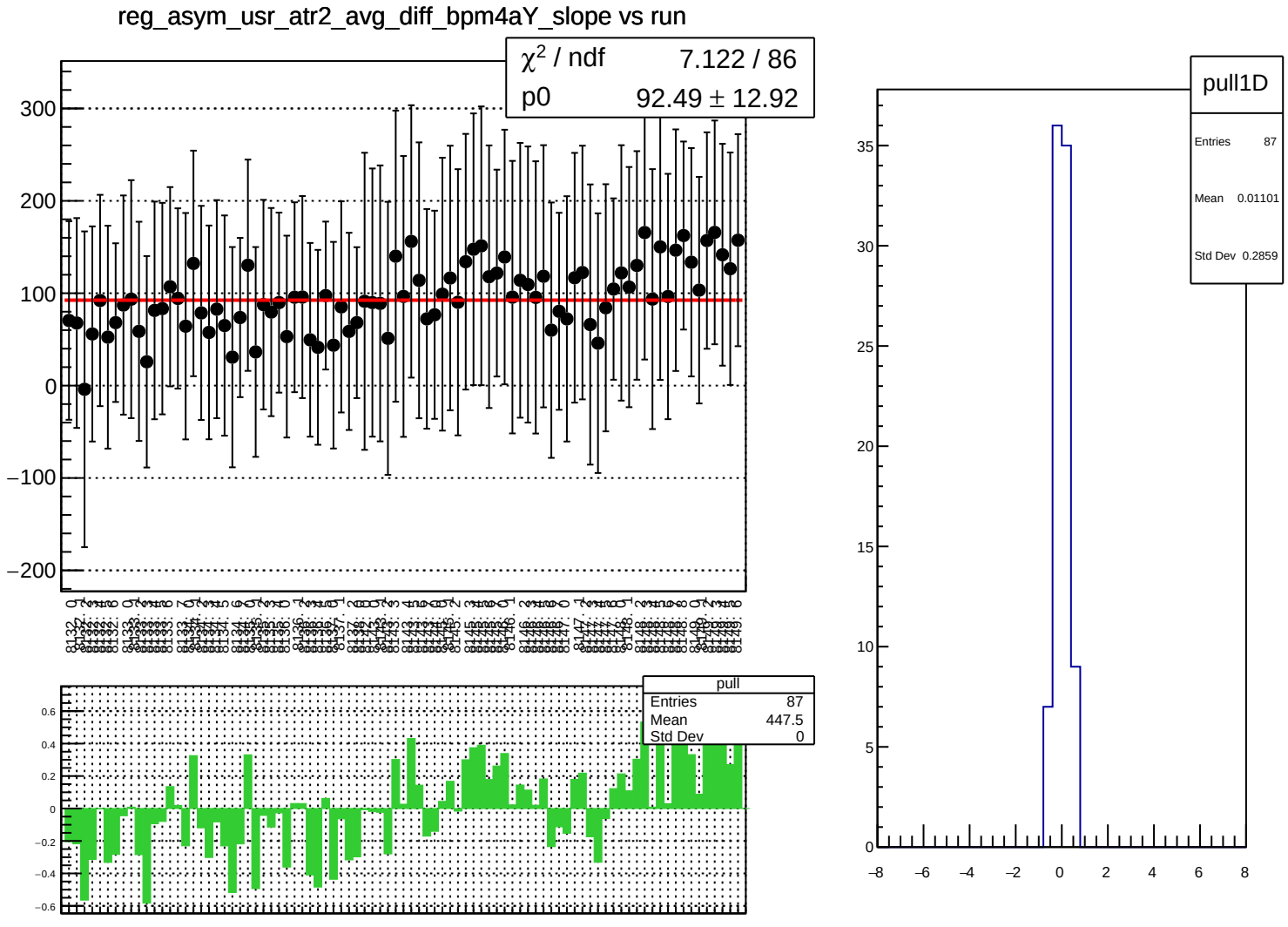

pull1D
Entries 87
Mean 0.3297
Std Dev 1.502

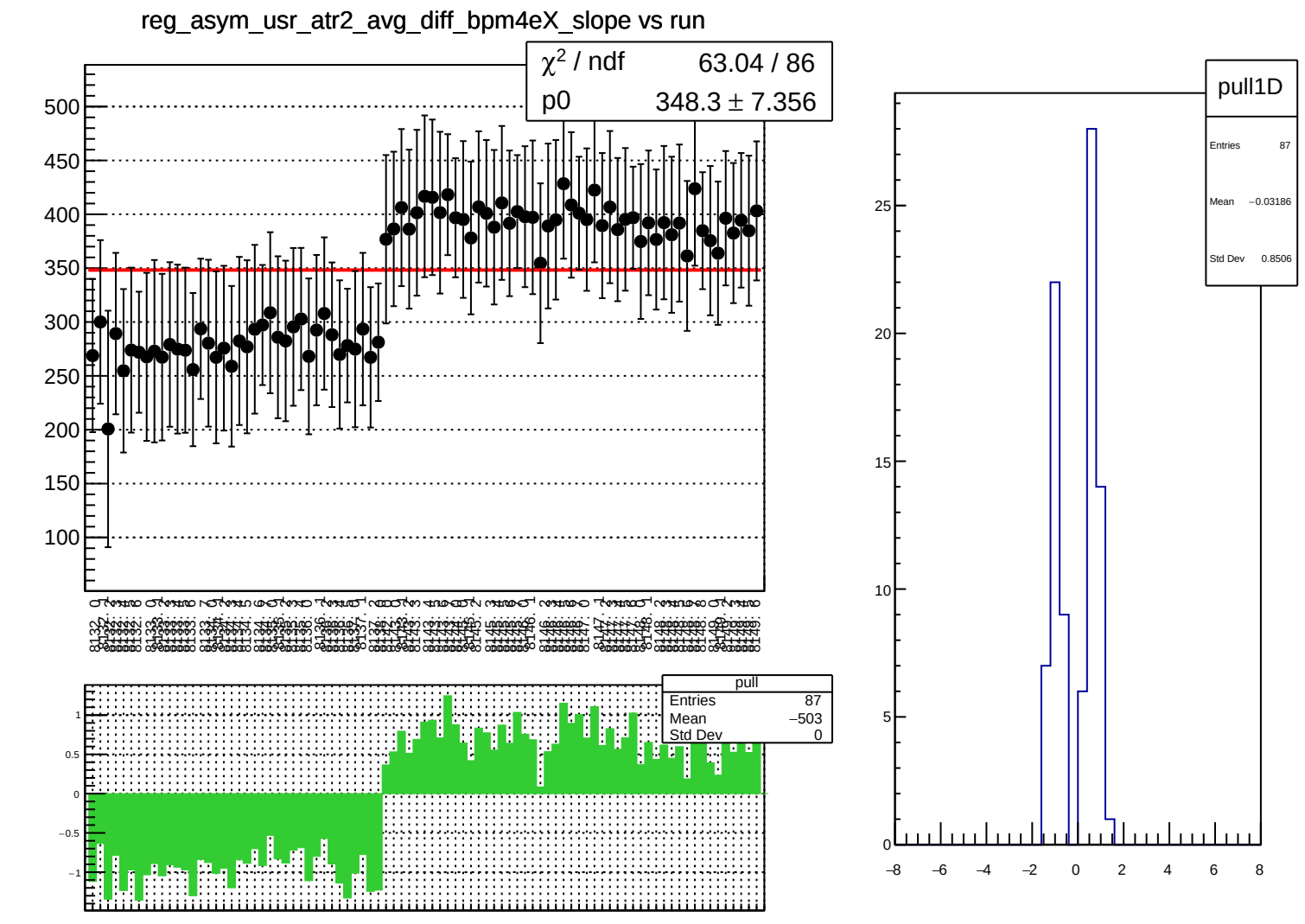

reg_asym_usr_atr1_dd_diff_bpm4eY_slope vs run
χ² / ndf 64 / 86
p0 −10.42 ± 3.011
pull
Entries 87
Mean −51.19
Std Dev 0
pull1D
Entries 87
Mean 0.02631
Std Dev 0.8573

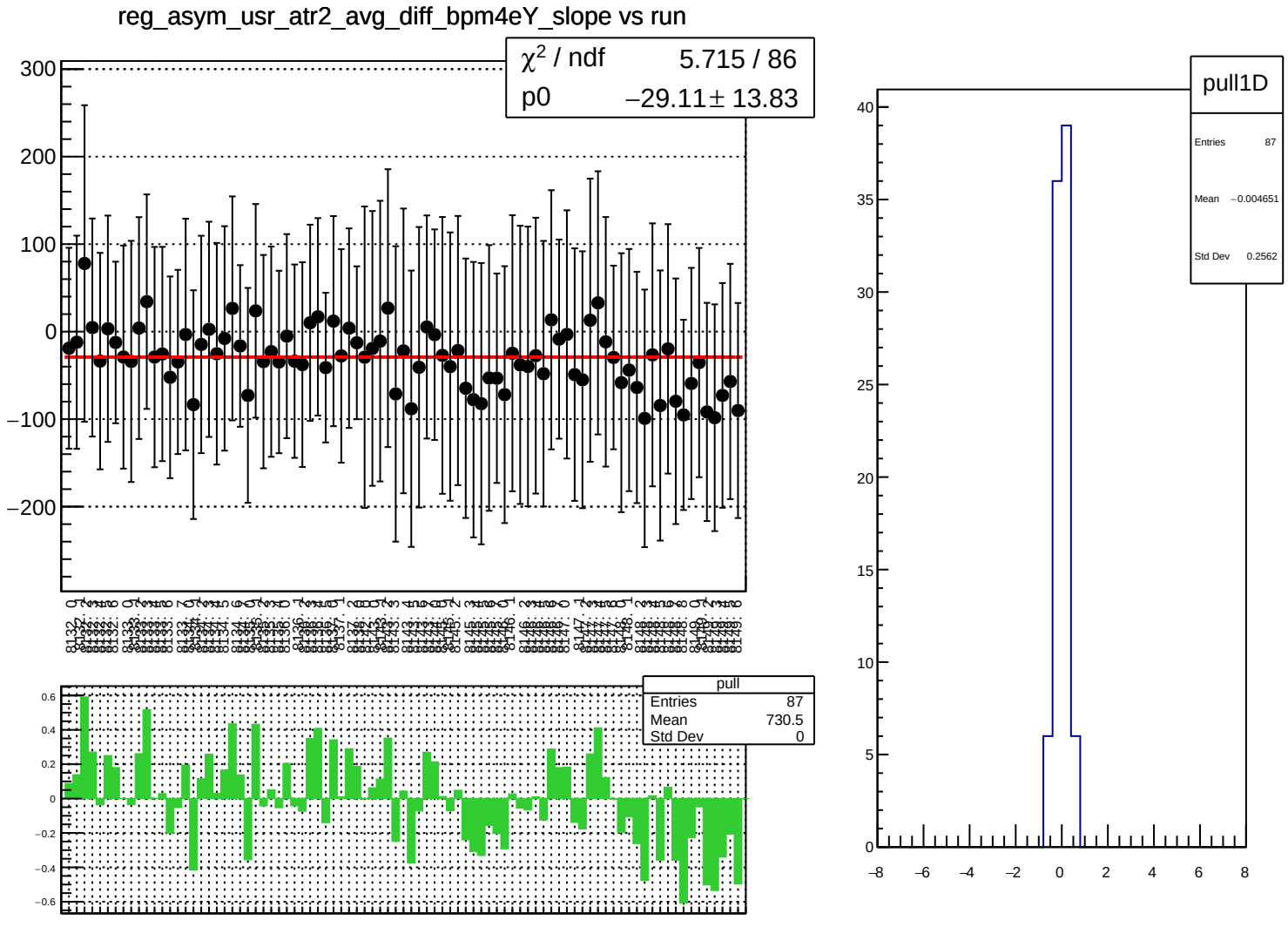

reg_asym_usr_atr1_dd_diff_bpm12X_slope vs run
χ² / ndf 1.618e+04 / 86
p0 7.756 ± 0.1238
pull
Entries 87
Mean −156.7
Std Dev 0

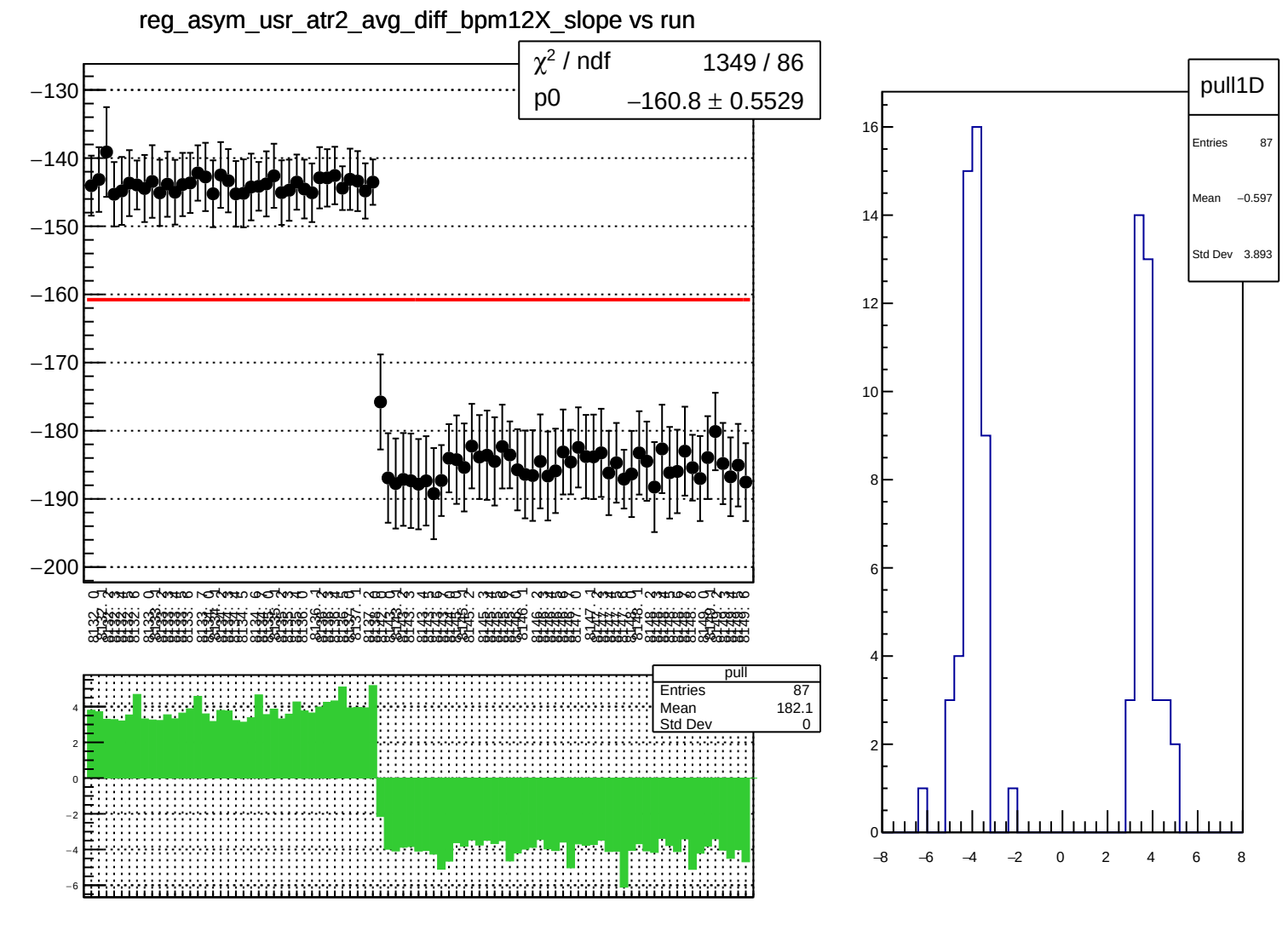

pull1D
Entries 87
Mean 5.969
Std Dev 2.691

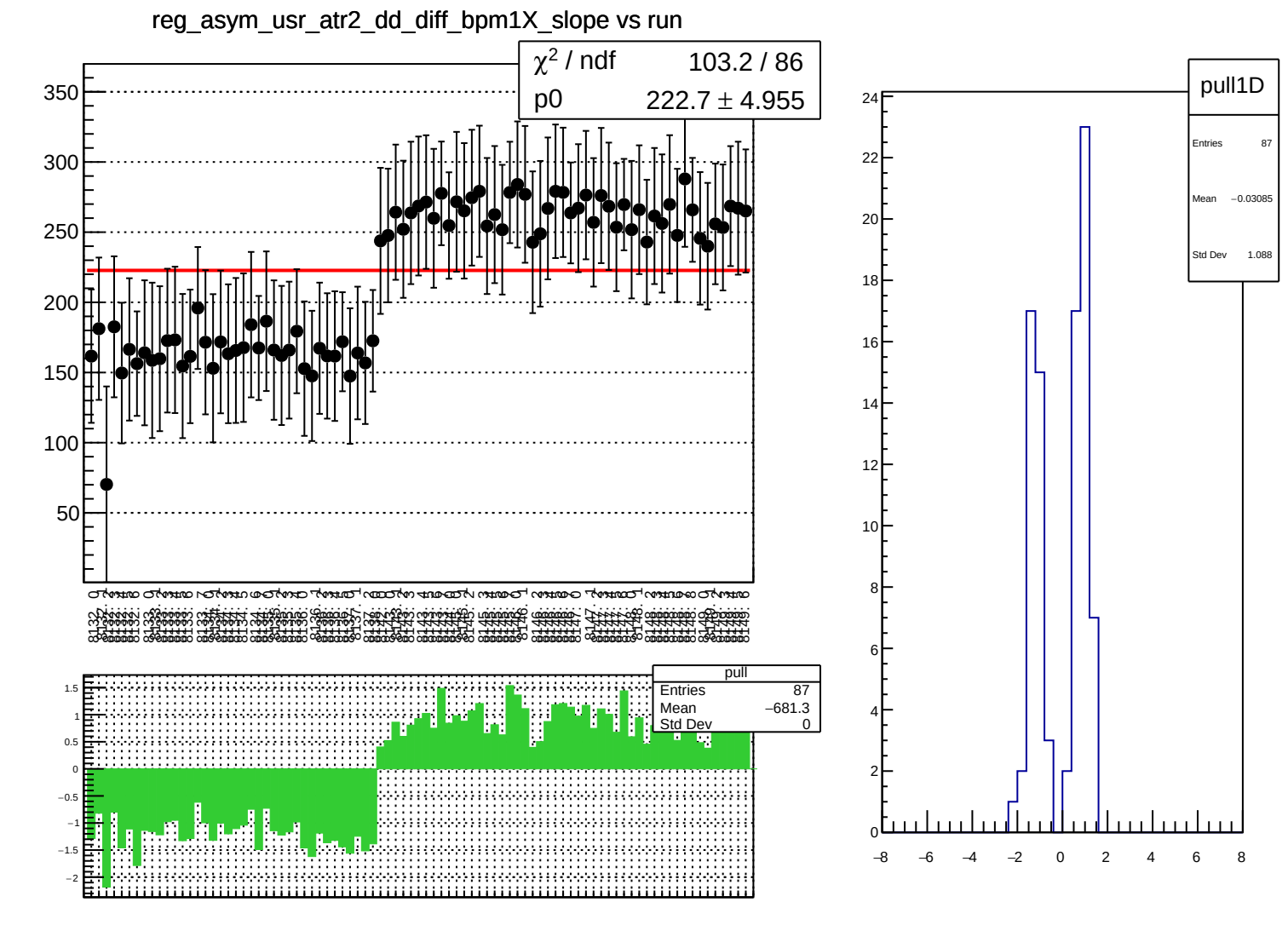

reg_asym_usr_atr2_avg_diff_bpm1X_slope vs run
χ² / ndf 66.86 / 86
p0 −305.8 ± 7.46
0
−100
−200
−300
−400
pull
Entries 87
Mean −257.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 87
Mean 0.05922
Std Dev 0.8747
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

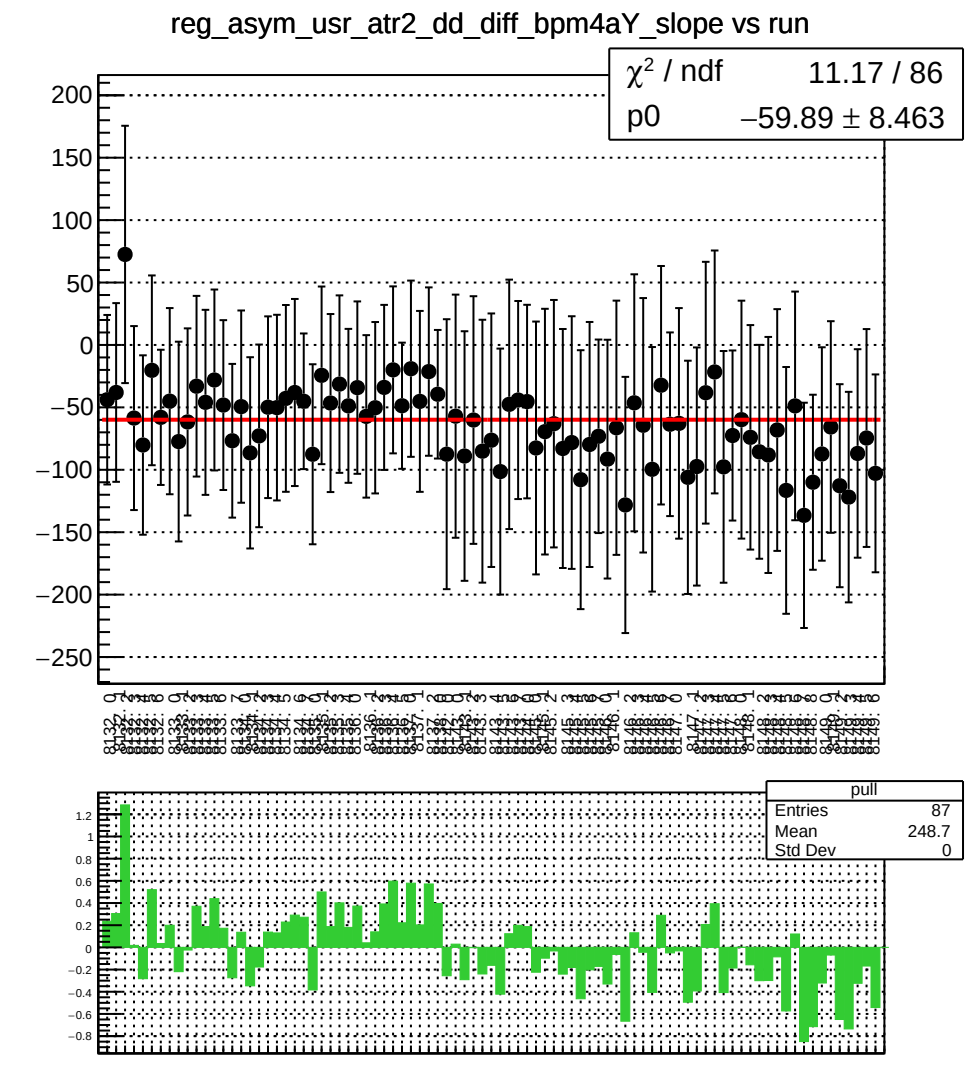

reg_asym_usr_atr2_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.122 / 86
p0 92.49 ± 12.92
pull
Entries 87
Mean 447.5
Std Dev 0
pull1D
Entries 87
Mean 0.01101
Std Dev 0.2859

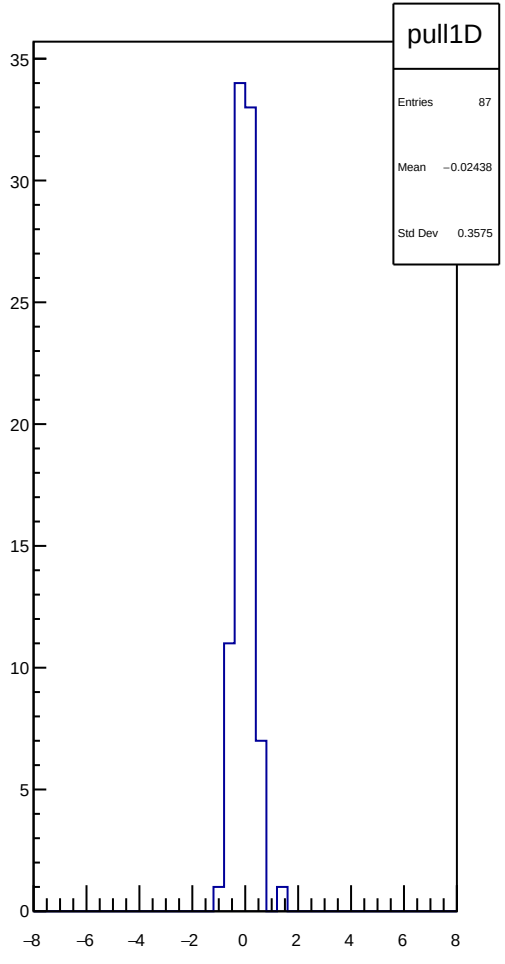

reg_asym_usr_atr2_avg_diff_bpm4eX_slope vs run
χ² / ndf 63.04 / 86
p0 348.3 ± 7.356
pull
Entries 87
Mean −503
Std Dev 0
pull1D
Entries 87
Mean −0.03186
Std Dev 0.8506

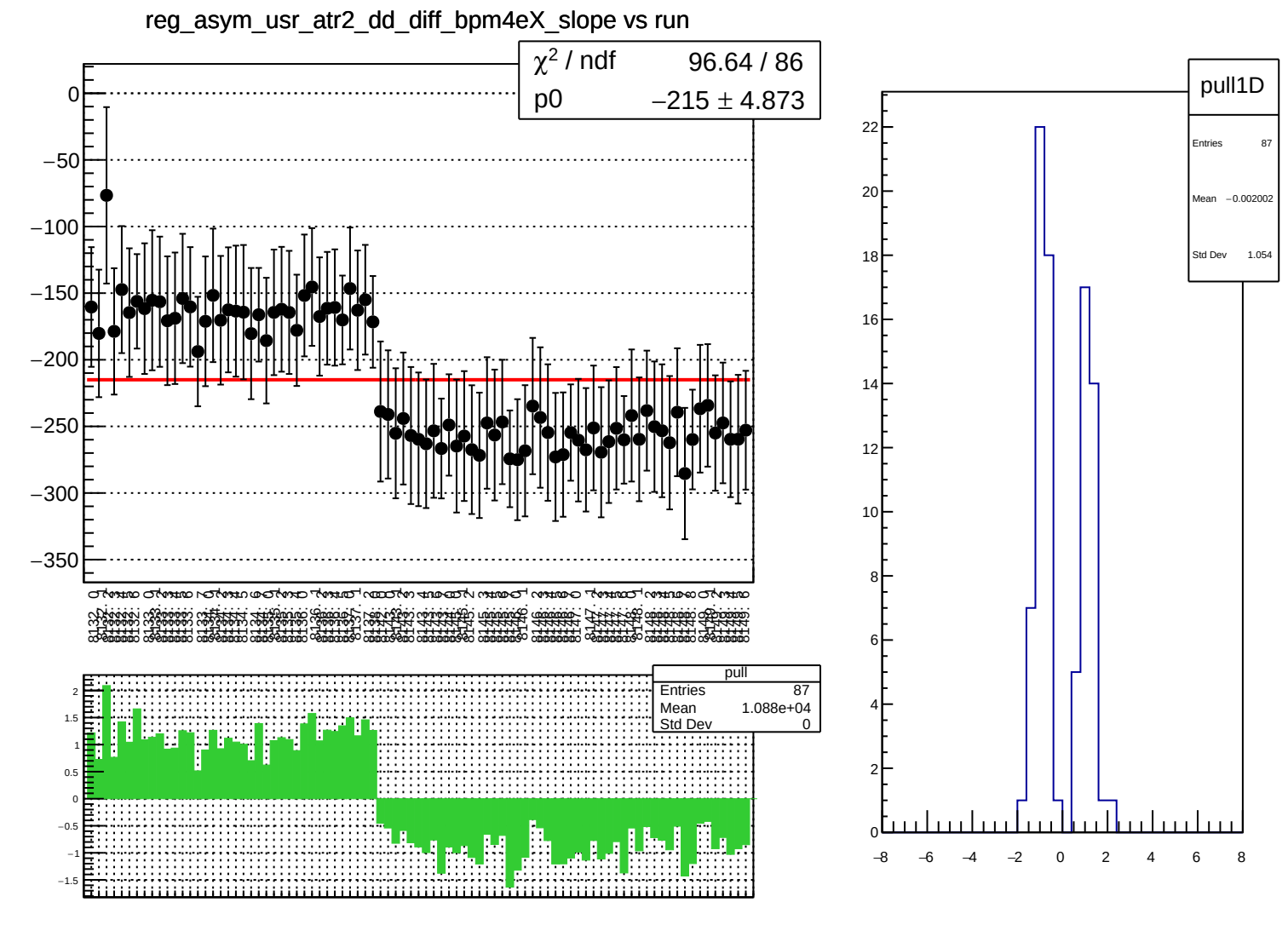

reg_asym_usr_atr2_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.715 / 86
p0 −29.11 ± 13.83
pull
Entries 87
Mean 730.5
Std Dev 0
pull1D
Entries 87
Mean −0.004651
Std Dev 0.2562

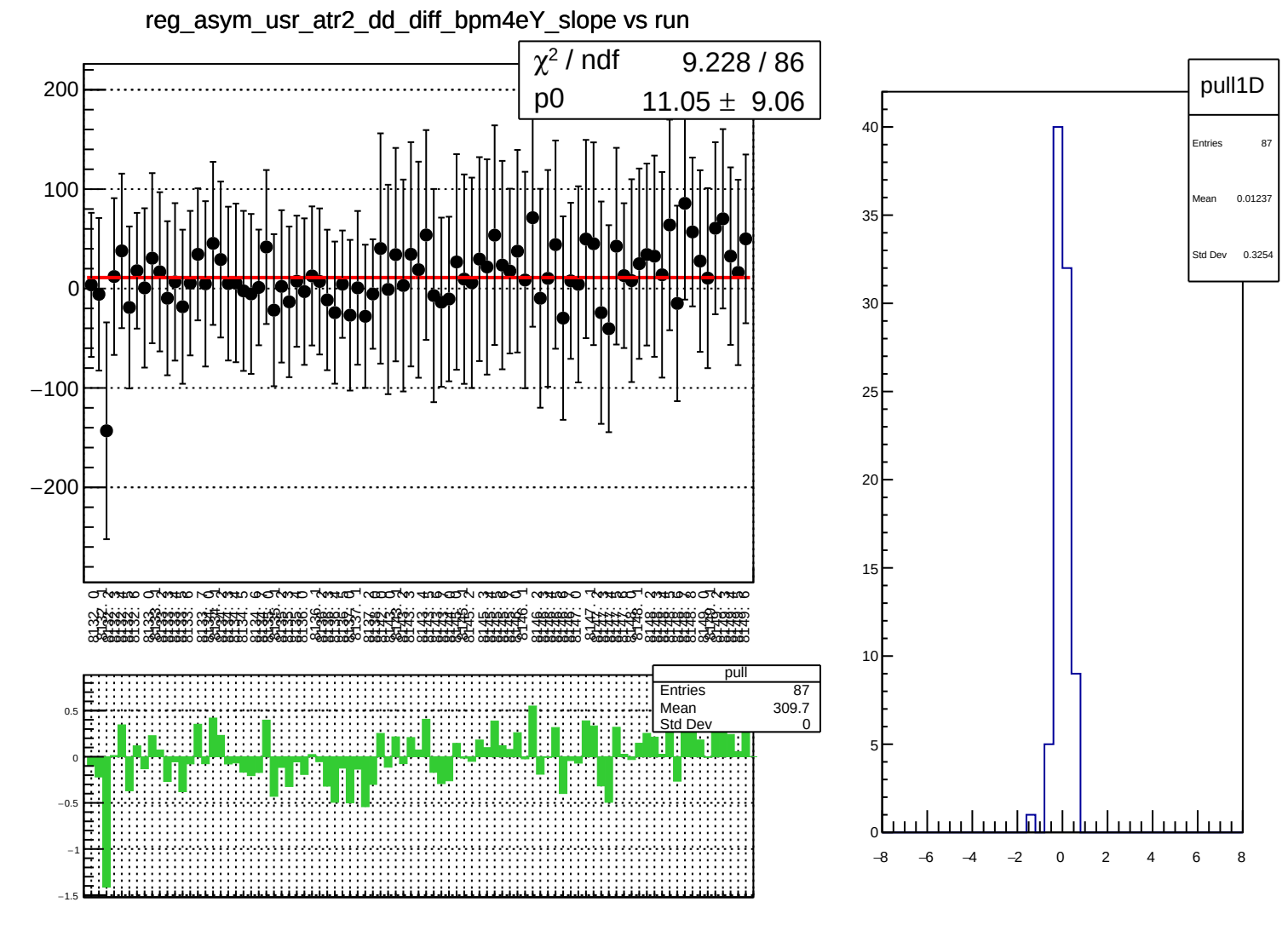

reg_asym_usr_atr2_avg_diff_bpm12X_slope vs run
χ² / ndf 1349 / 86
p0 −160.8 ± 0.5529
pull
Entries 87
Mean 182.1
Std Dev 0
pull1D
Entries 87
Mean −0.597
Std Dev 3.893

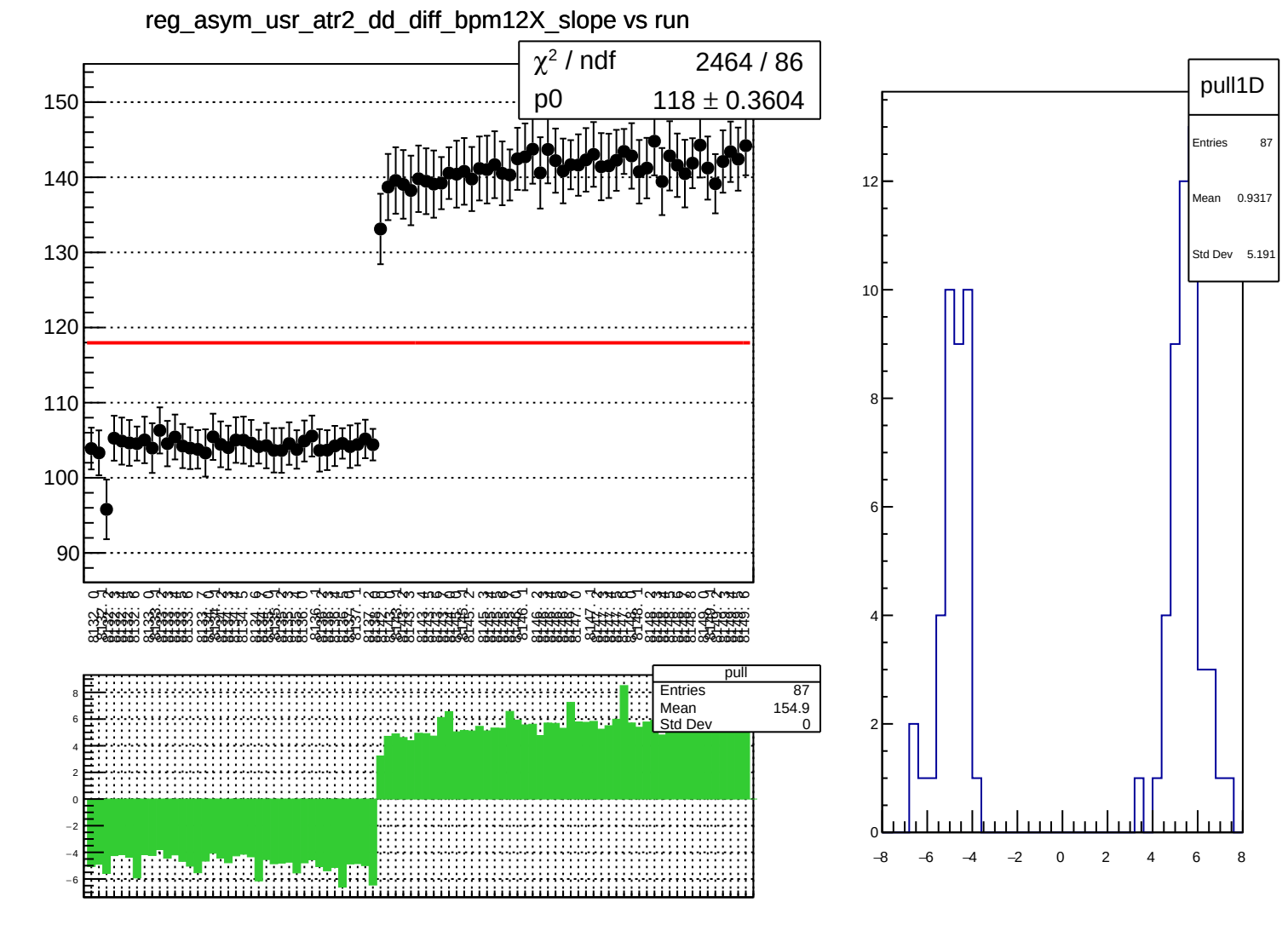

reg_asym_usr_atr2_dd_diff_bpm1X_slope vs run
χ² / ndf 103.2 / 86
p0 222.7 ± 4.955
pull
Entries 87
Mean −681.3
Std Dev 0
pull1D
Entries 87
Mean −0.03085
Std Dev 1.088

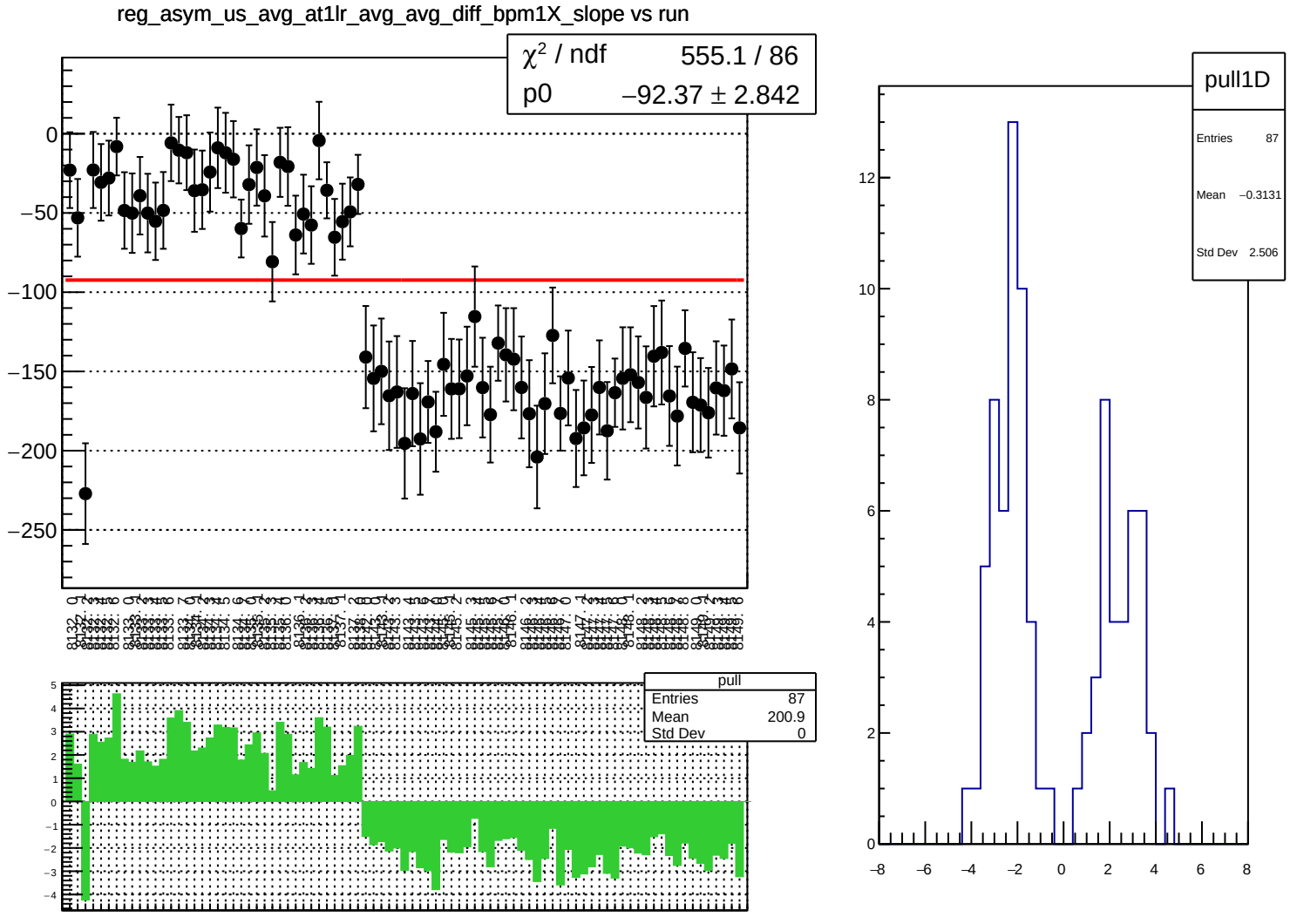

reg_asym_usr_atr2_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.17 / 86
p0 −59.89 ± 8.463
pull
Entries 87
Mean 248.7
Std Dev 0

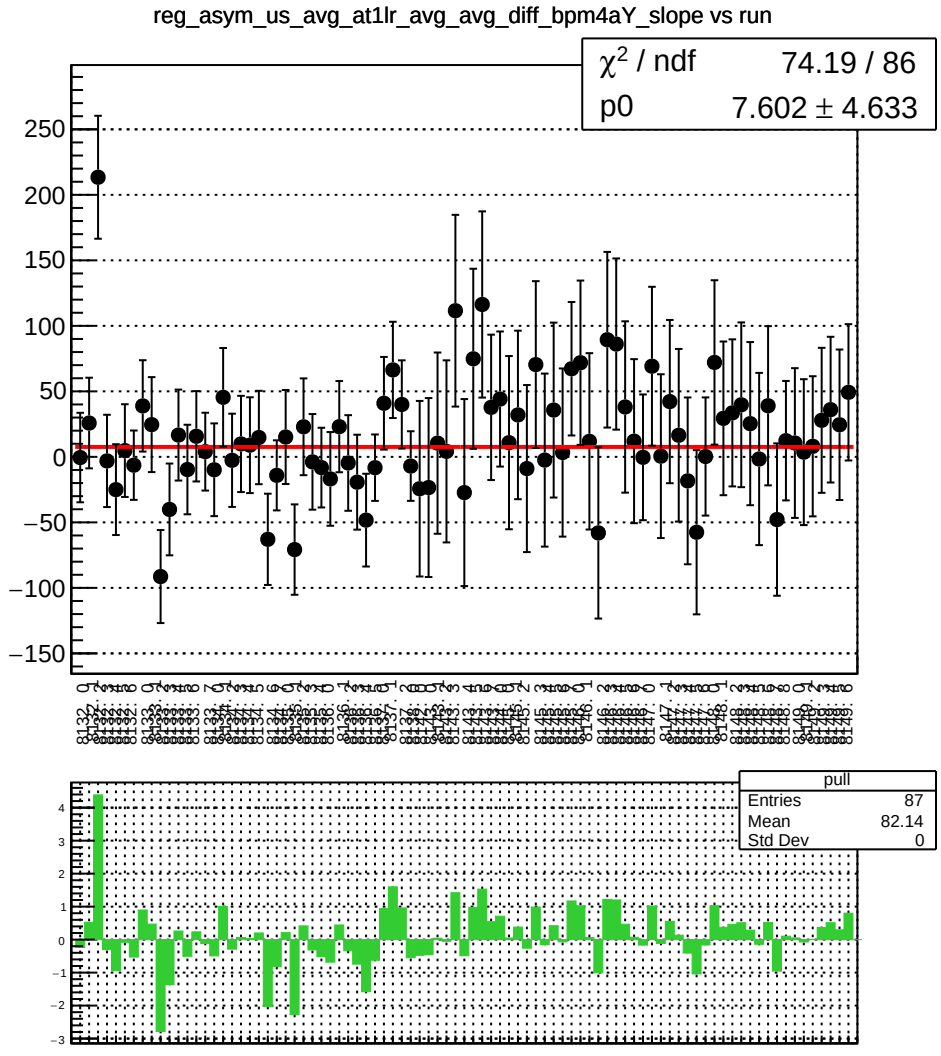

pull1D
Entries 87
Mean −0.02438
Std Dev 0.3575

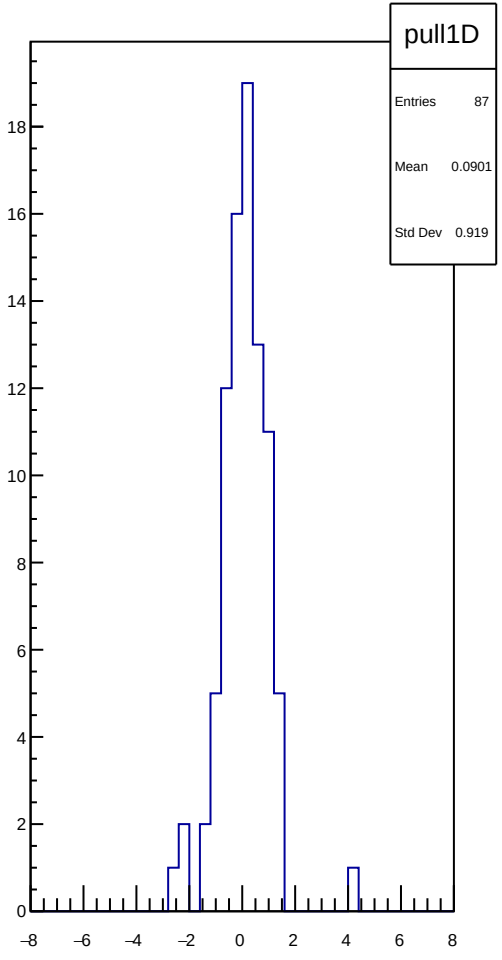

reg_asym_usr_atr2_dd_diff_bpm4eX_slope vs run
χ² / ndf 96.64 / 86
p0 −215 ± 4.873
pull
Entries 87
Mean 1.088e+04
Std Dev 0
pull1D
Entries 87
Mean −0.002002
Std Dev 1.054

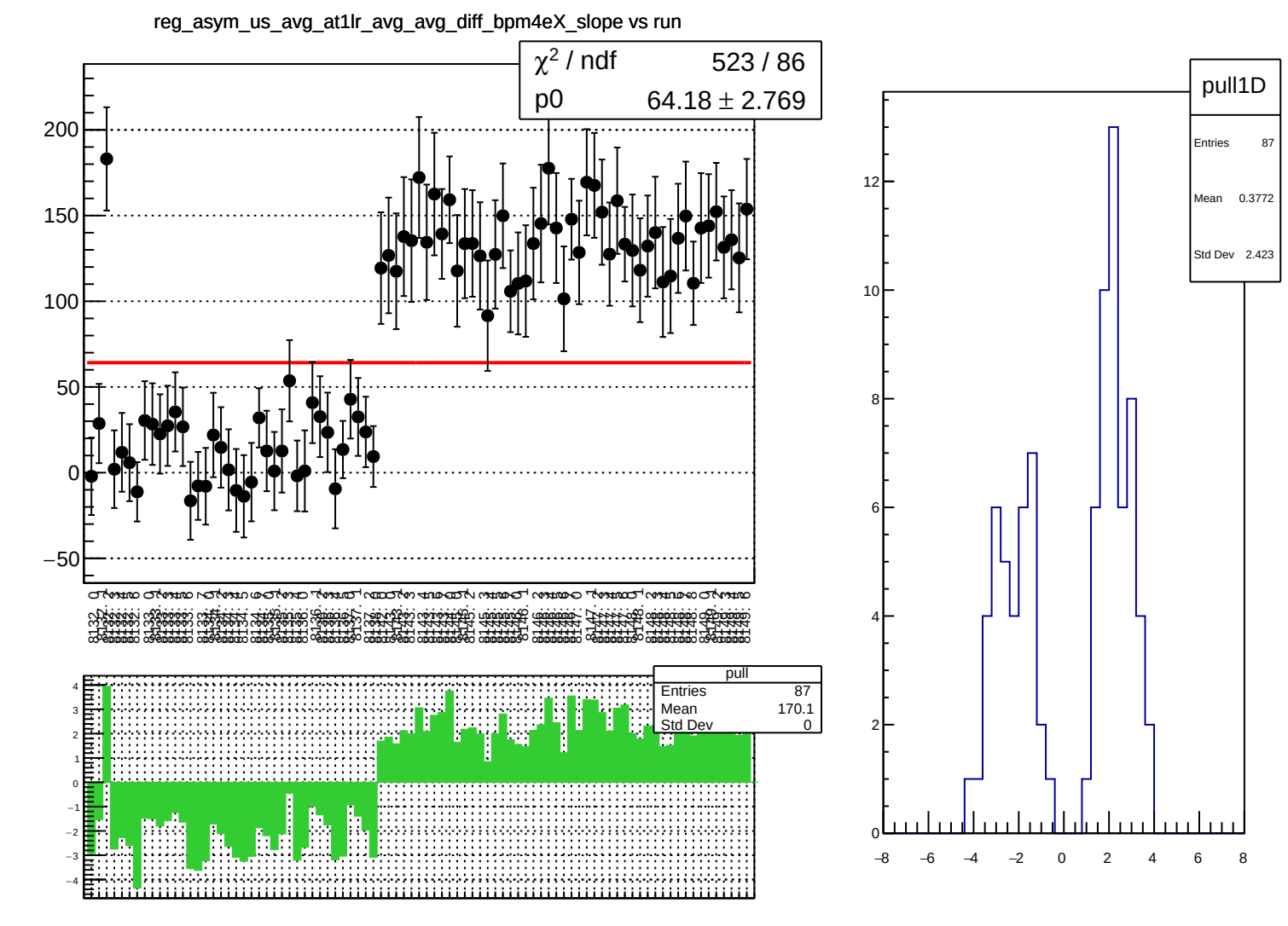

reg_asym_usr_atr2_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.228 / 86
p0 11.05 ± 9.06
pull
Entries 87
Mean 309.7
Std Dev 0
pull1D
Entries 87
Mean 0.01237
Std Dev 0.3254

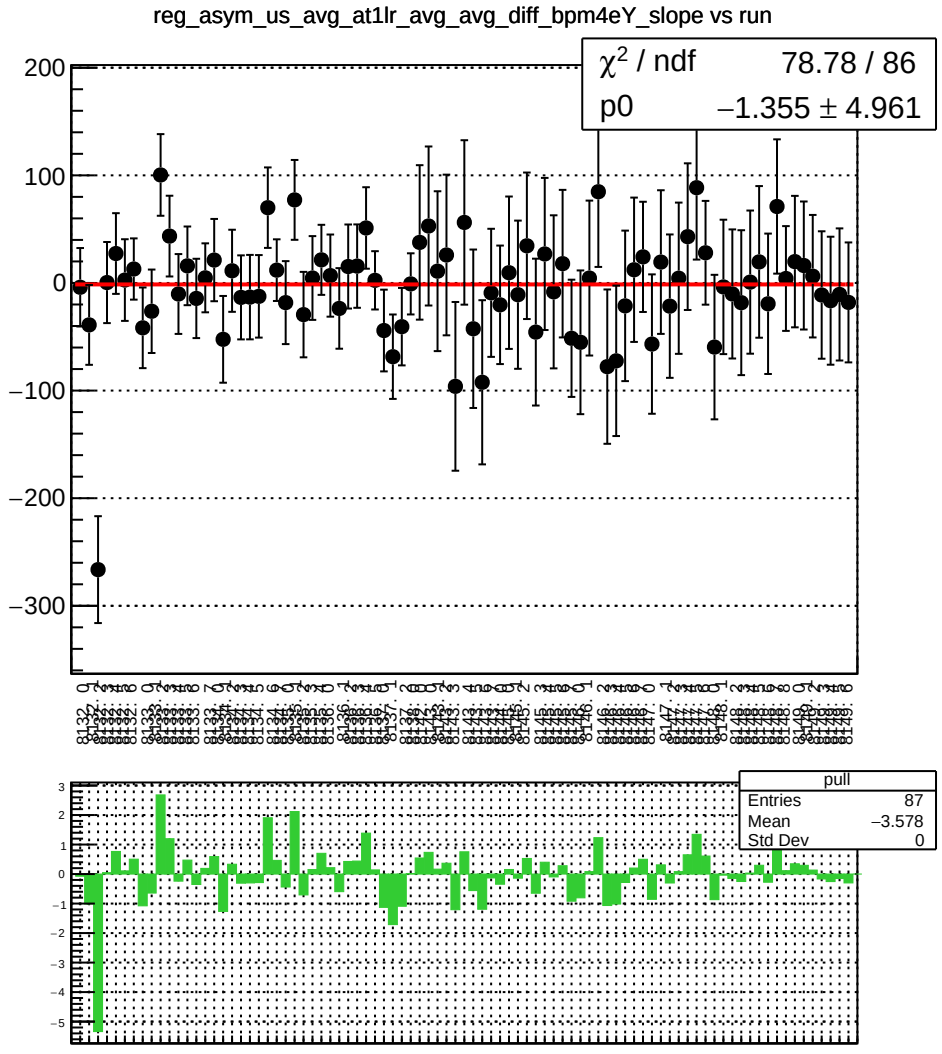

reg_asym_usr_atr2_dd_diff_bpm12X_slope vs run
χ² / ndf 2464 / 86
p0 118 ± 0.3604
150
140
130
120
110
100
90
pull
Entries 87
Mean 154.9
Std Dev 0
8
6
4
2
0
−2
−4
−6
pull1D
Entries 87
Mean 0.9317
Std Dev 5.191
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

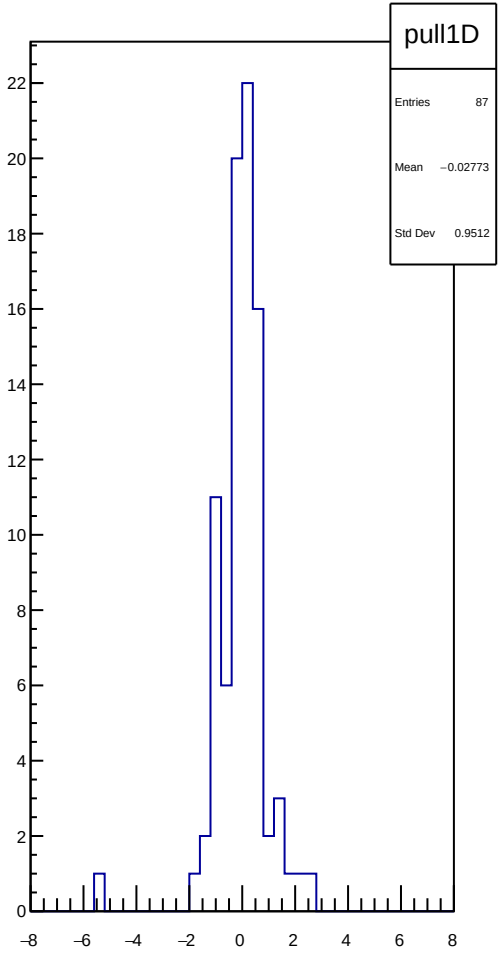

reg_asym_us_avg_at1lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 555.1 / 86
p0 −92.37 ± 2.842
pull
Entries 87
Mean 200.9
Std Dev 0
pull1D
Entries 87
Mean −0.3131
Std Dev 2.506

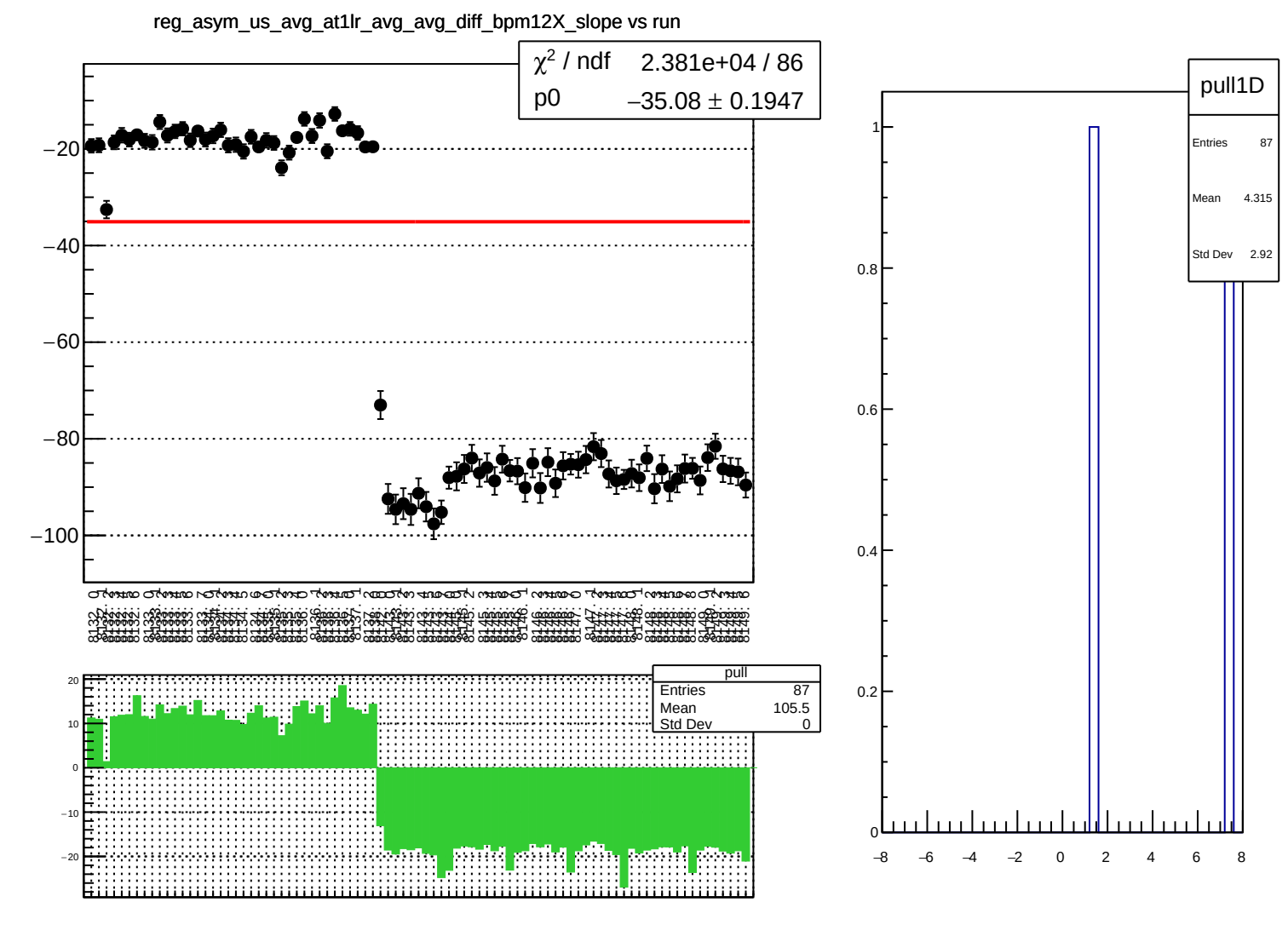

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 74.19 / 86
p0 7.602 ± 4.633
pull
Entries 87
Mean 82.14
Std Dev 0

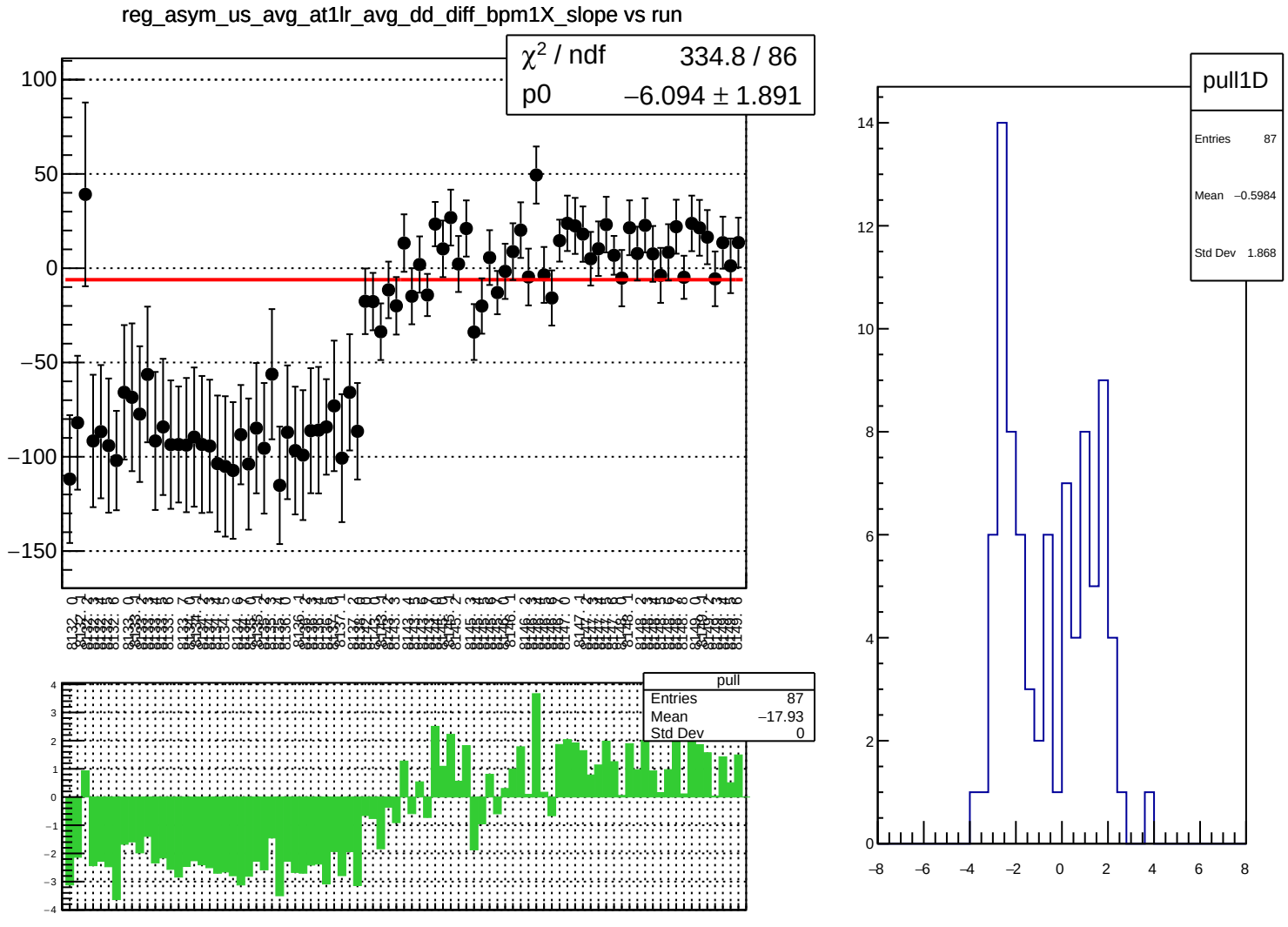

pull1D
Entries 87
Mean 0.0901
Std Dev 0.919

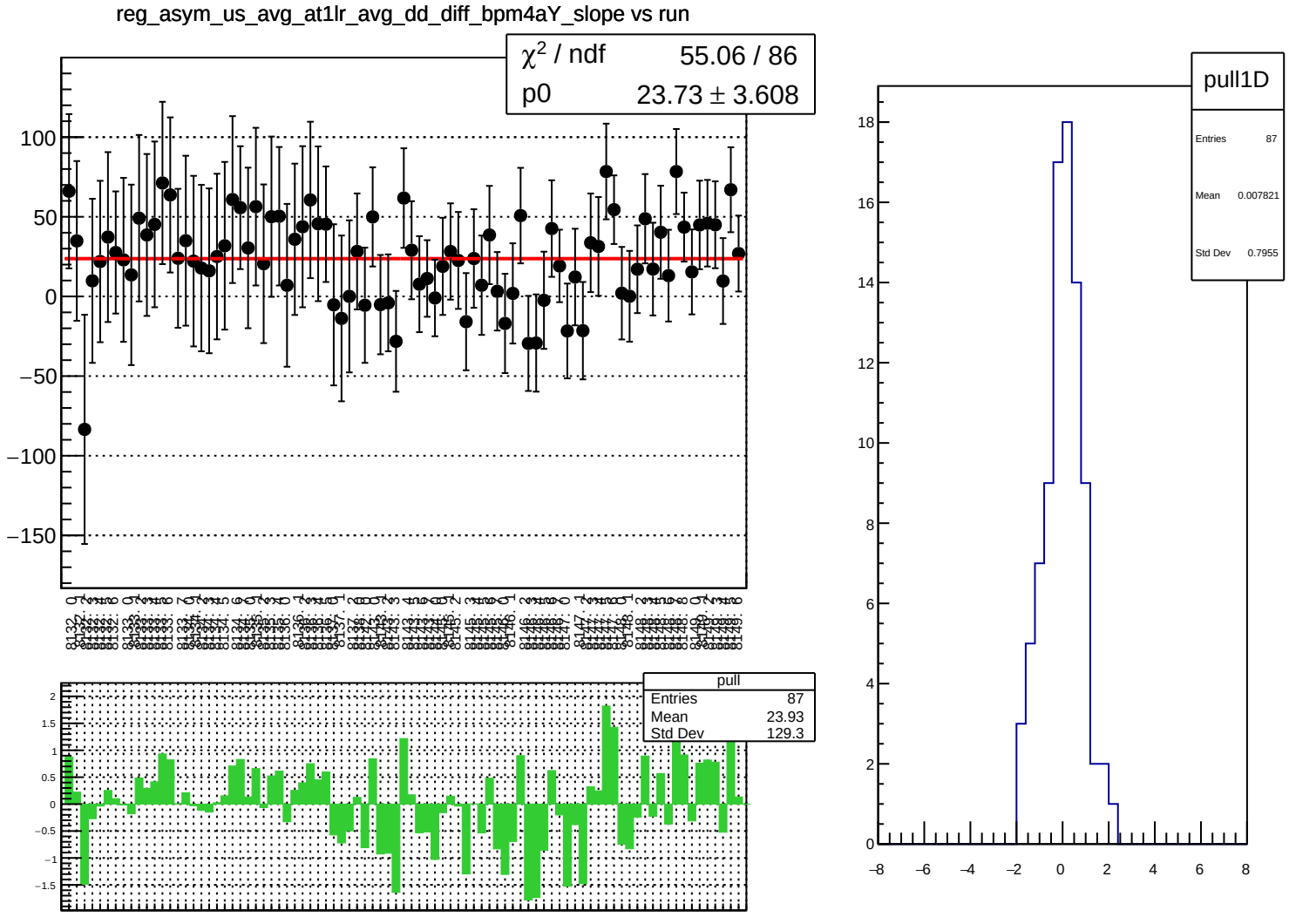

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 523 / 86
p0 64.18 ± 2.769
200
150
100
50
0
−50
pull
Entries 87
Mean 170.1
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 87
Mean 0.3772
Std Dev 2.423
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

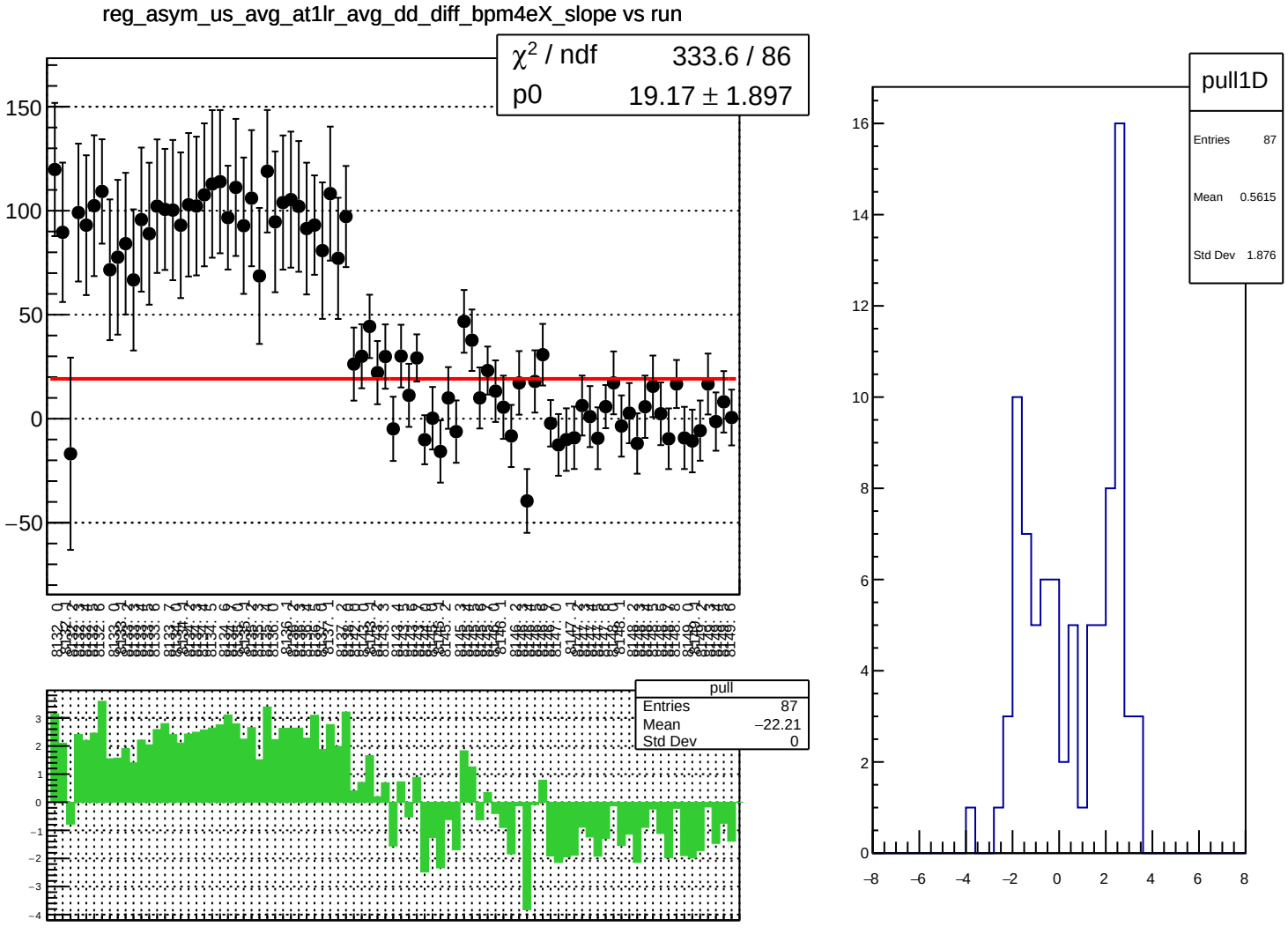

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 78.78 / 86
p0 −1.355 ± 4.961
pull
Entries 87
Mean −3.578
Std Dev 0

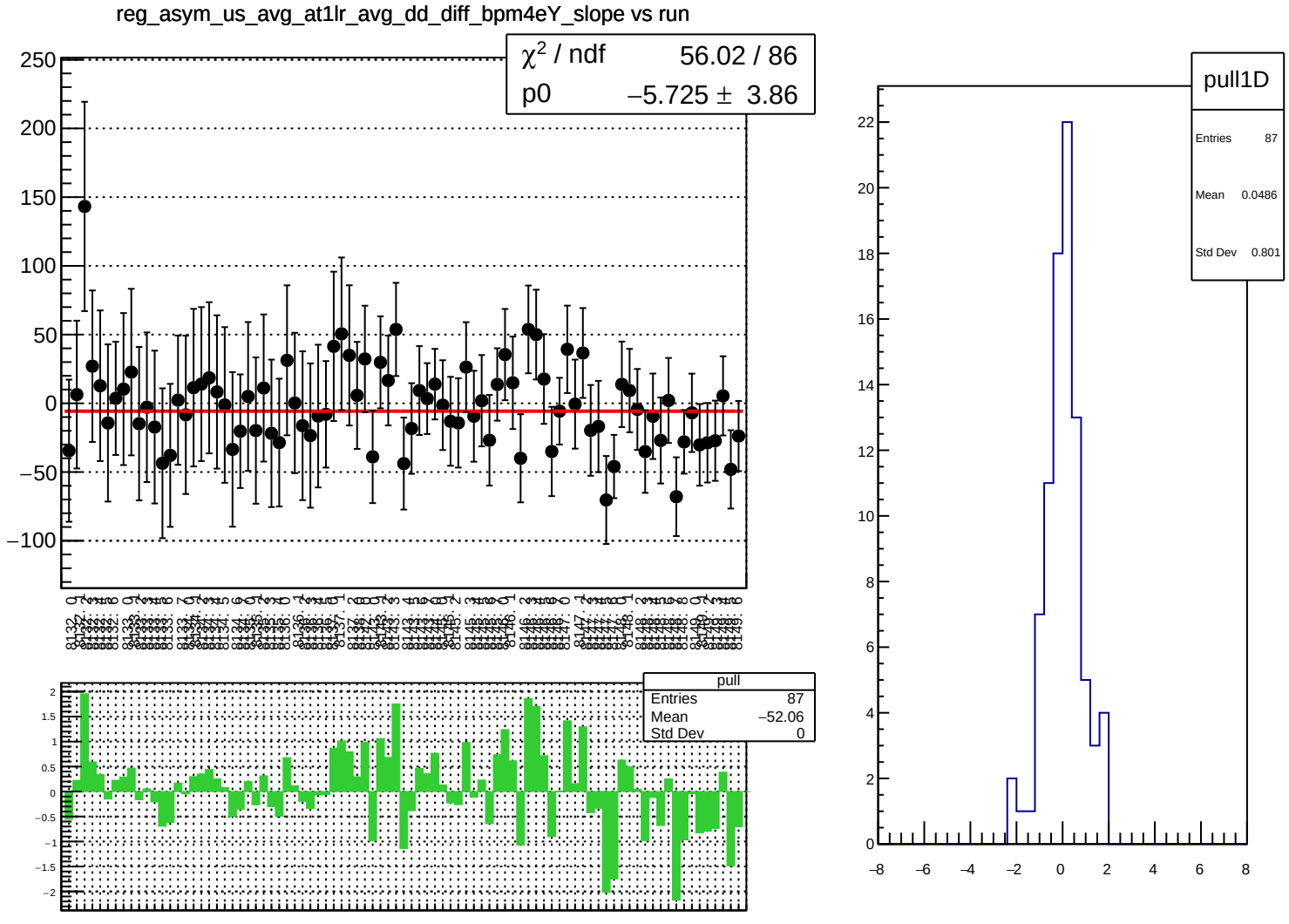

pull1D
Entries 87
Mean −0.02773
Std Dev 0.9512

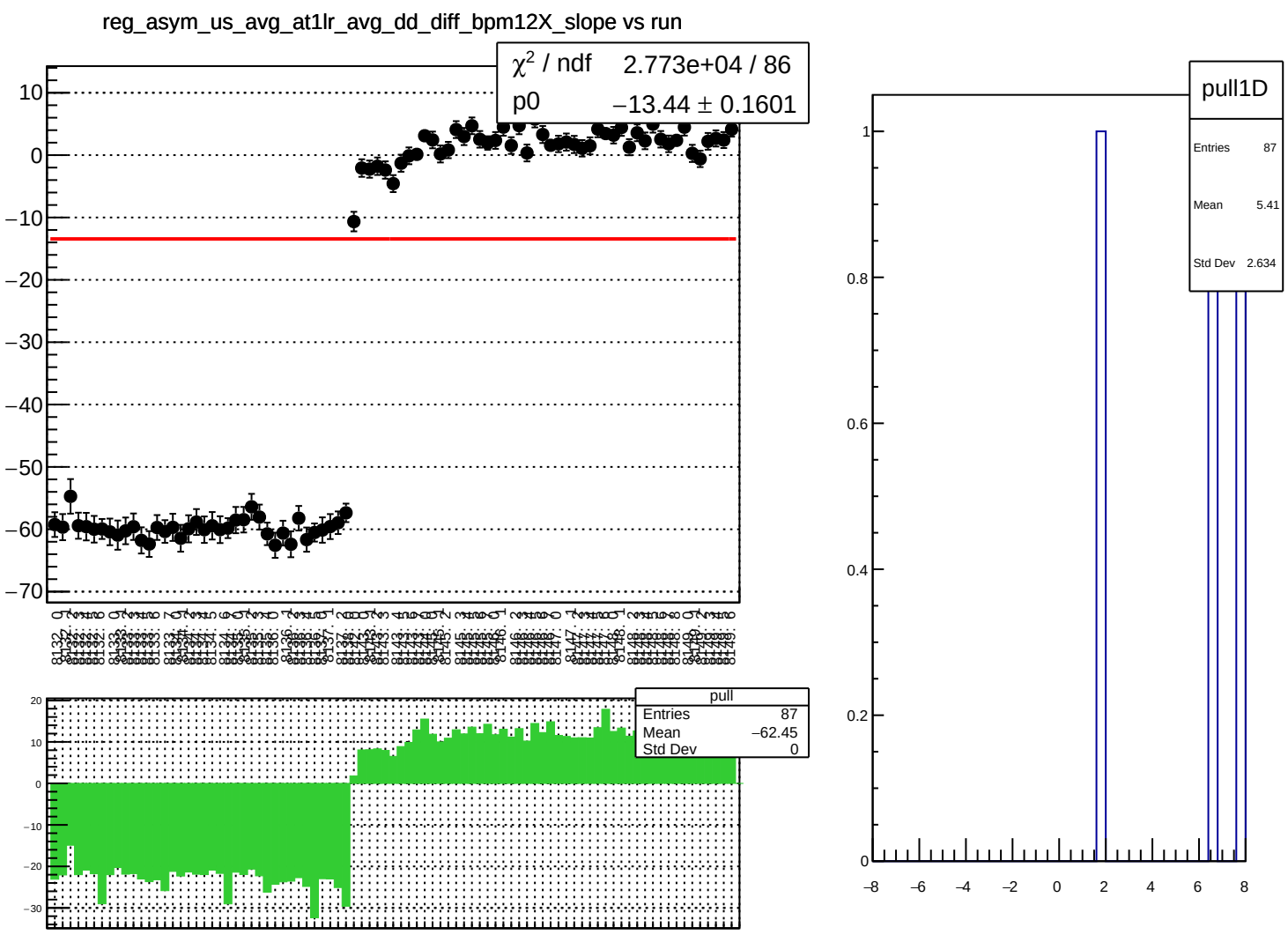

reg_asym_us_avg_at1lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 2.381e+04 / 86
p0 −35.08 ± 0.1947
pull
Entries 87
Mean 105.5
Std Dev 0
pull1D
Entries 87
Mean 4.315
Std Dev 2.92

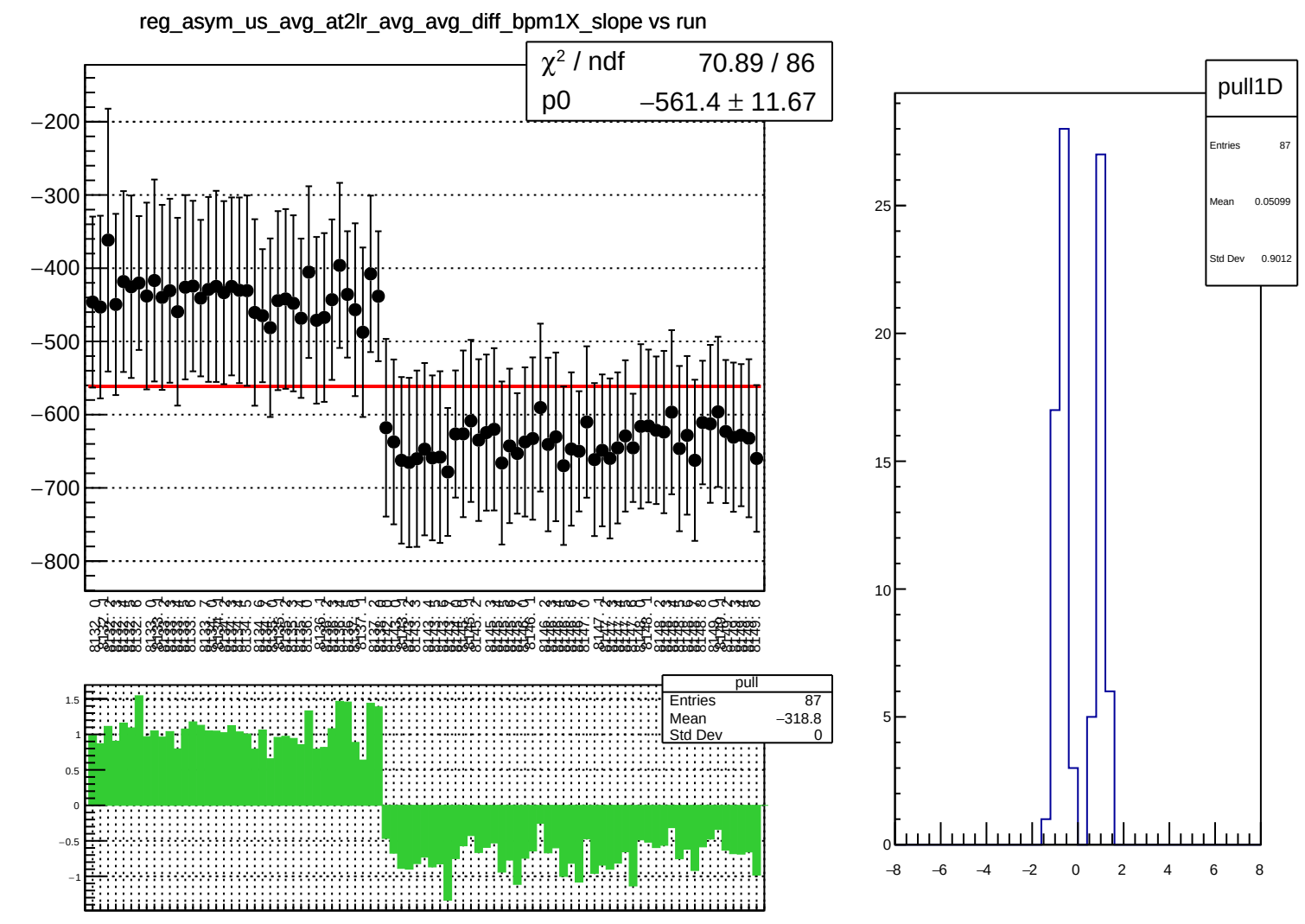

reg_asym_us_avg_at1lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 334.8 / 86
p0 −6.094 ± 1.891
pull
Entries 87
Mean −17.93
Std Dev 0
pull1D
Entries 87
Mean −0.5984
Std Dev 1.868

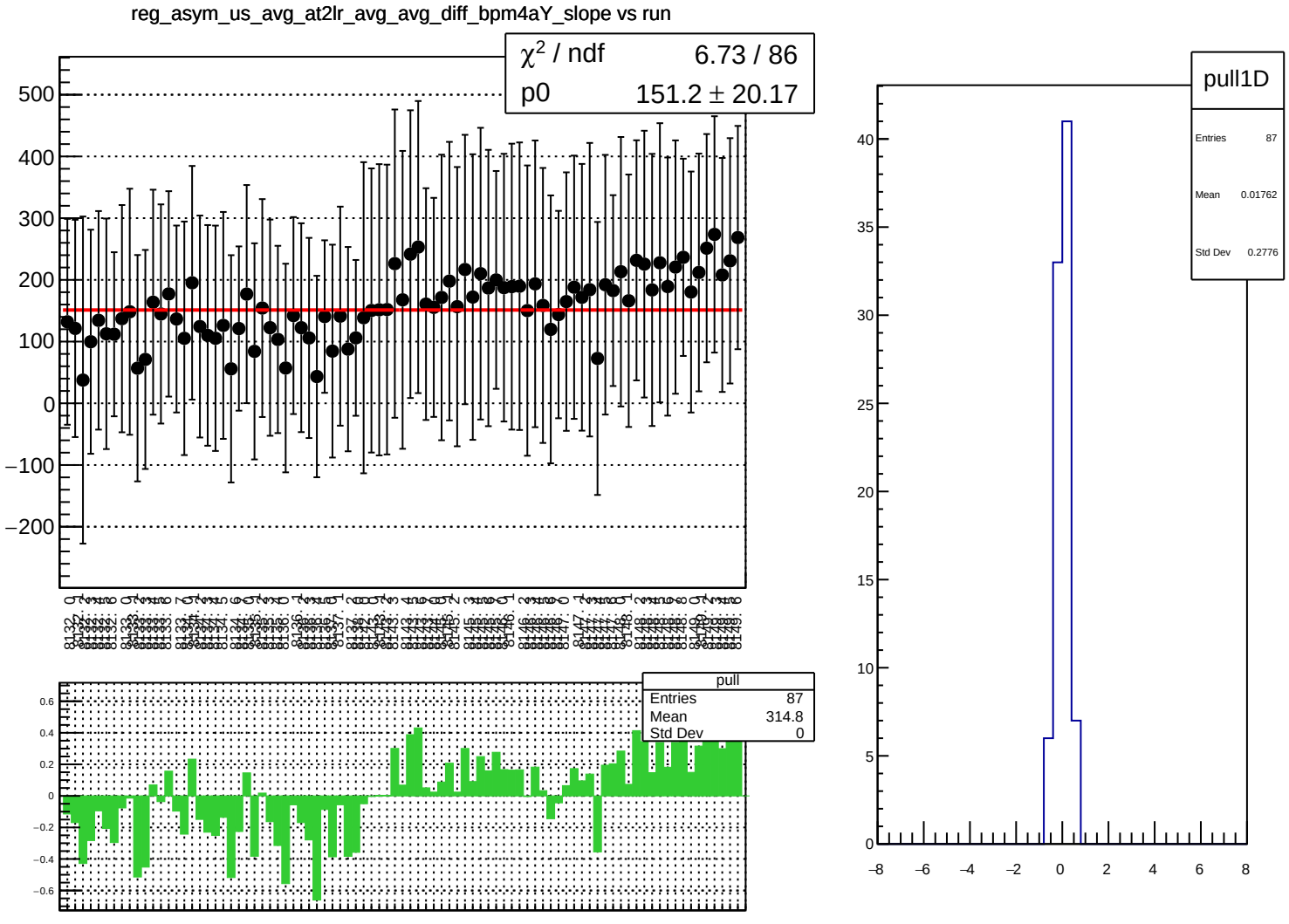

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 55.06 / 86
p0 23.73 ± 3.608
pull
Entries 87
Mean 23.93
Std Dev 129.3
pull1D
Entries 87
Mean 0.007821
Std Dev 0.7955

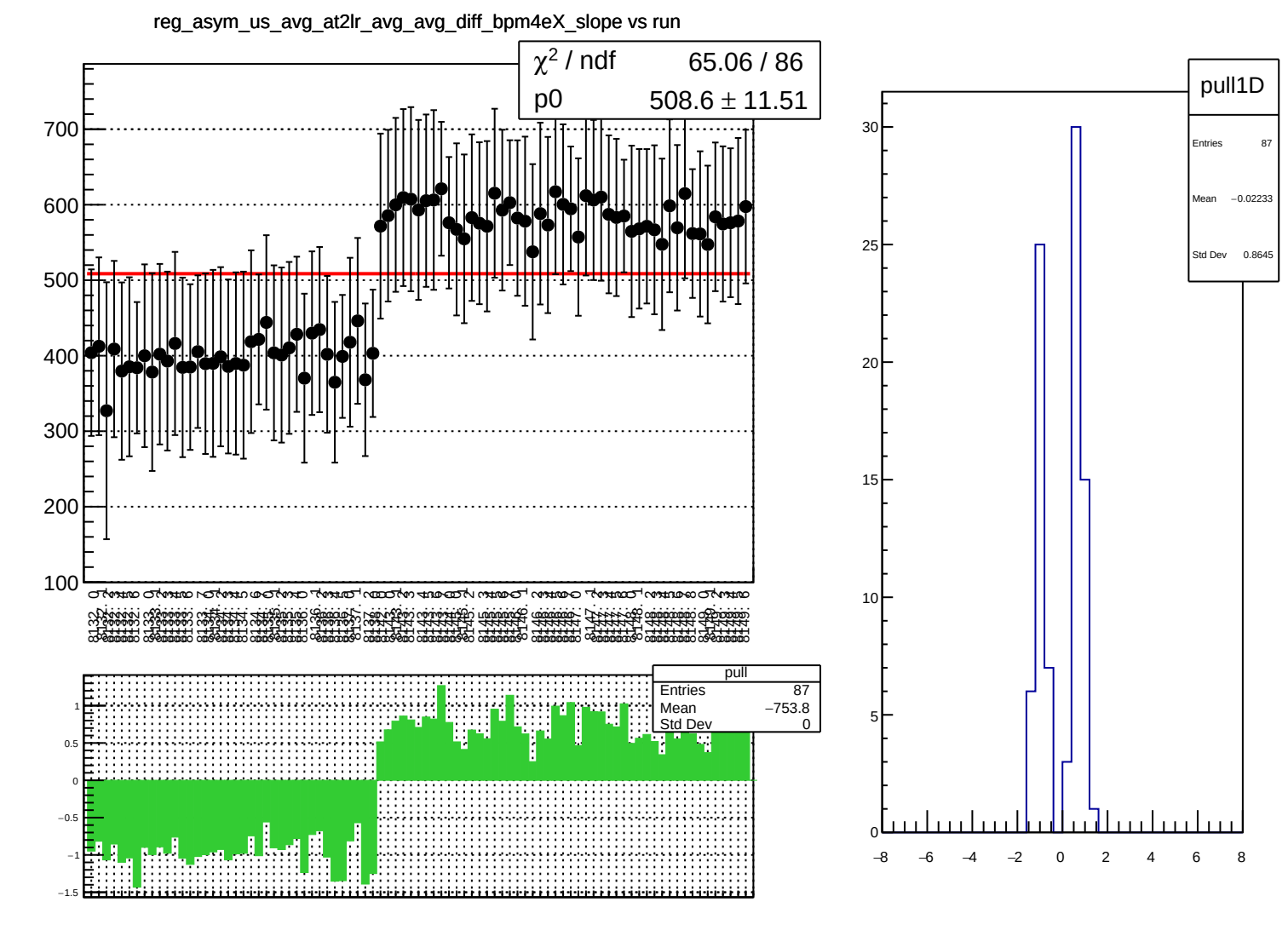

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 333.6 / 86
p0 19.17 ± 1.897
150
100
50
0
−50
pull
Entries 87
Mean −22.21
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 87
Mean 0.5615
Std Dev 1.876
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

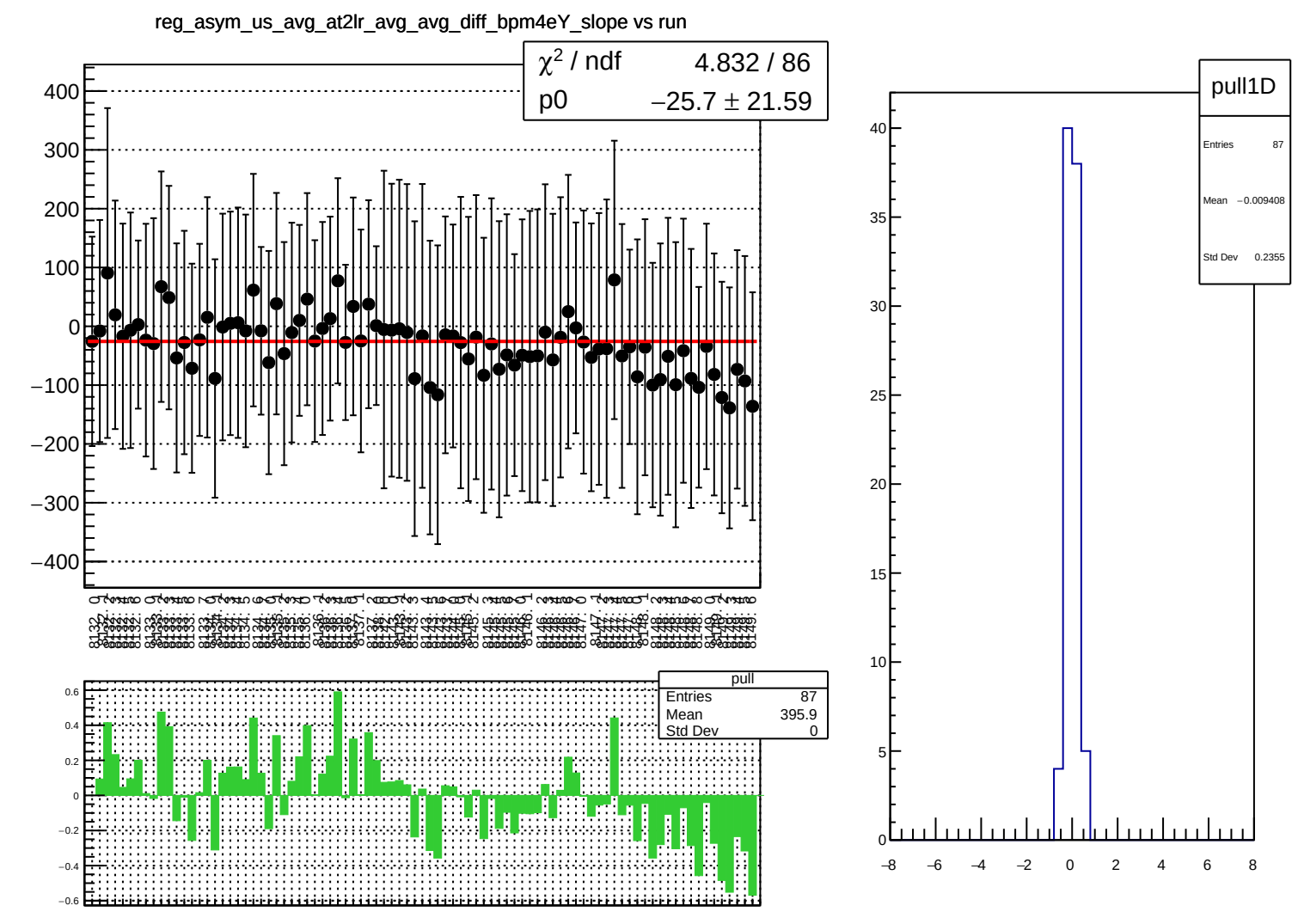

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 56.02 / 86
p0 −5.725 ± 3.86
pull
Entries 87
Mean −52.06
Std Dev 0
pull1D
Entries 87
Mean 0.0486
Std Dev 0.801

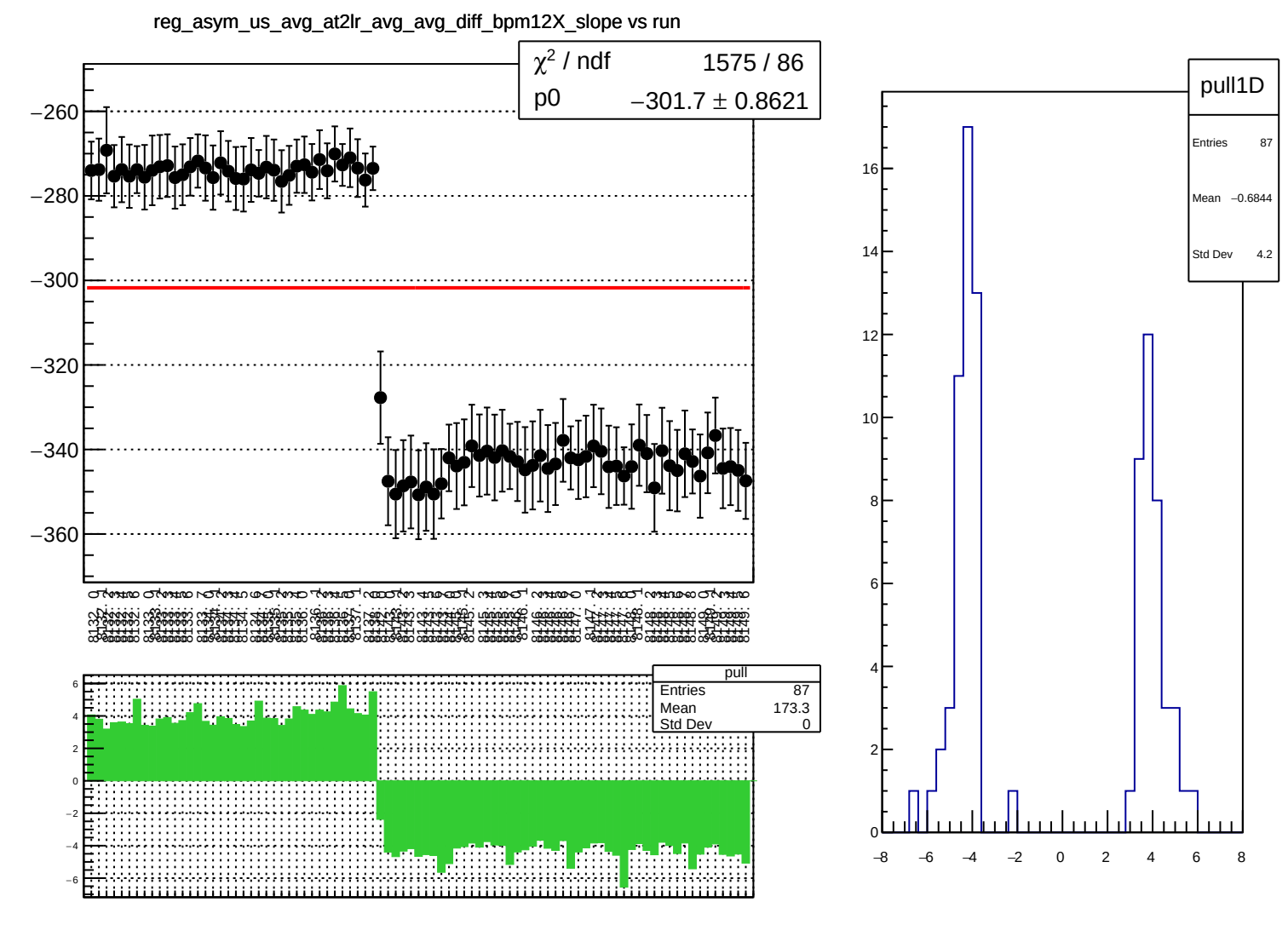

reg_asym_us_avg_at1lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 2.773e+04 / 86
p0 −13.44 ± 0.1601
pull
Entries 87
Mean −62.45
Std Dev 0
pull1D
Entries 87
Mean 5.41
Std Dev 2.634

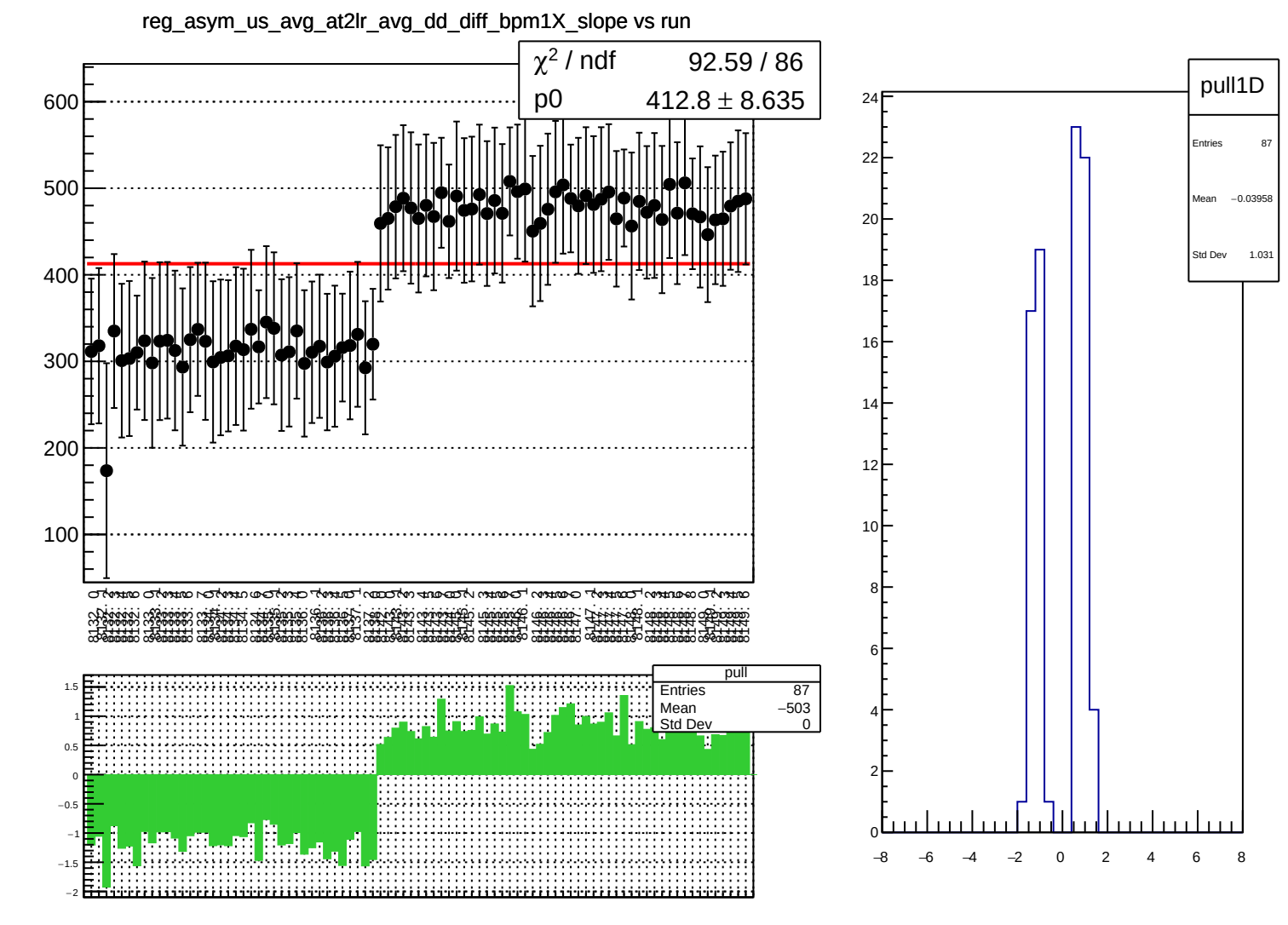

reg_asym_us_avg_at2lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 70.89 / 86
p0 −561.4 ± 11.67
pull
Entries 87
Mean −318.8
Std Dev 0
pull1D
Entries 87
Mean 0.05099
Std Dev 0.9012

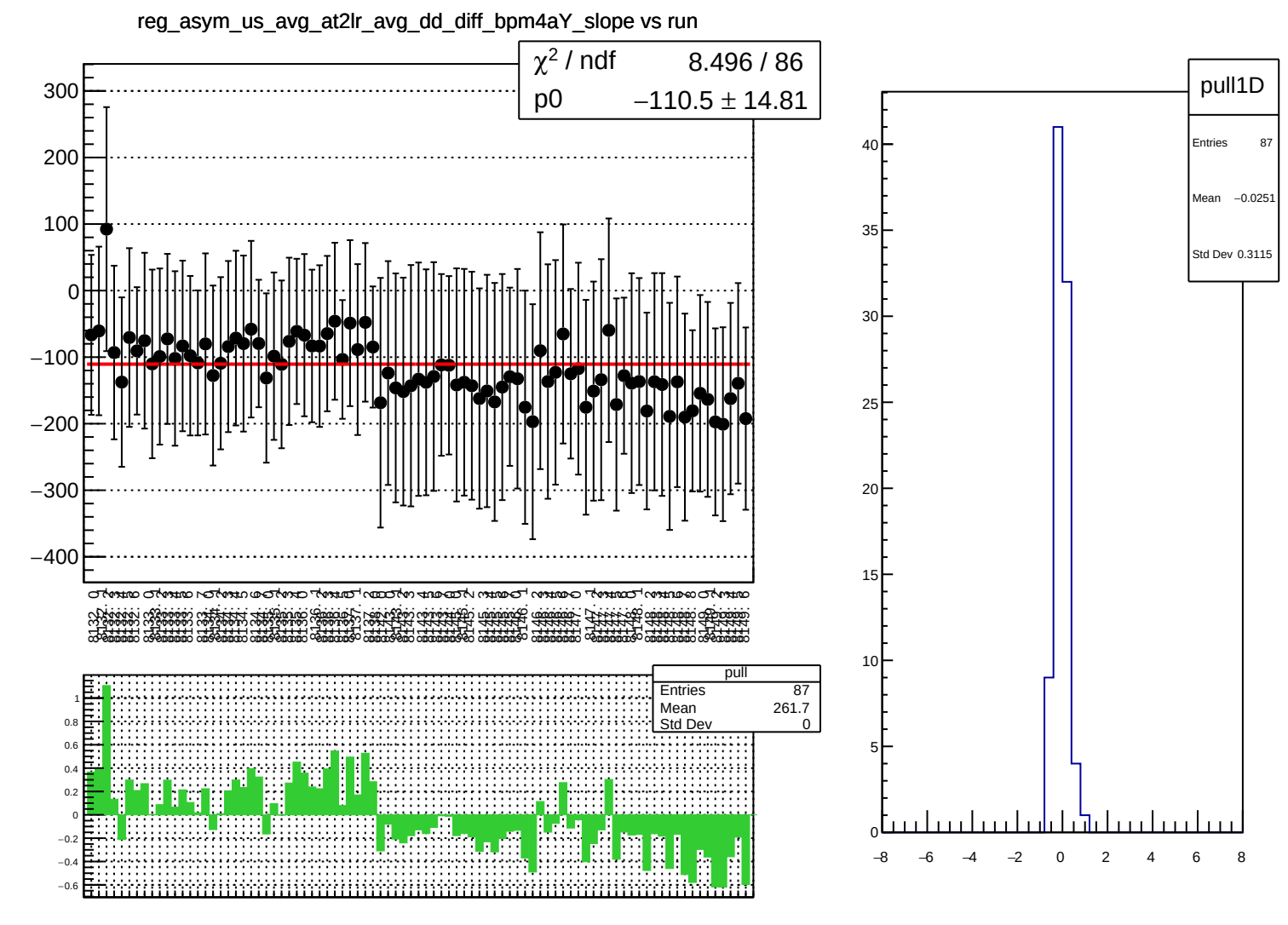

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.73 / 86
p0 151.2 ± 20.17
pull
Entries 87
Mean 314.8
Std Dev 0
pull1D
Entries 87
Mean 0.01762
Std Dev 0.2776

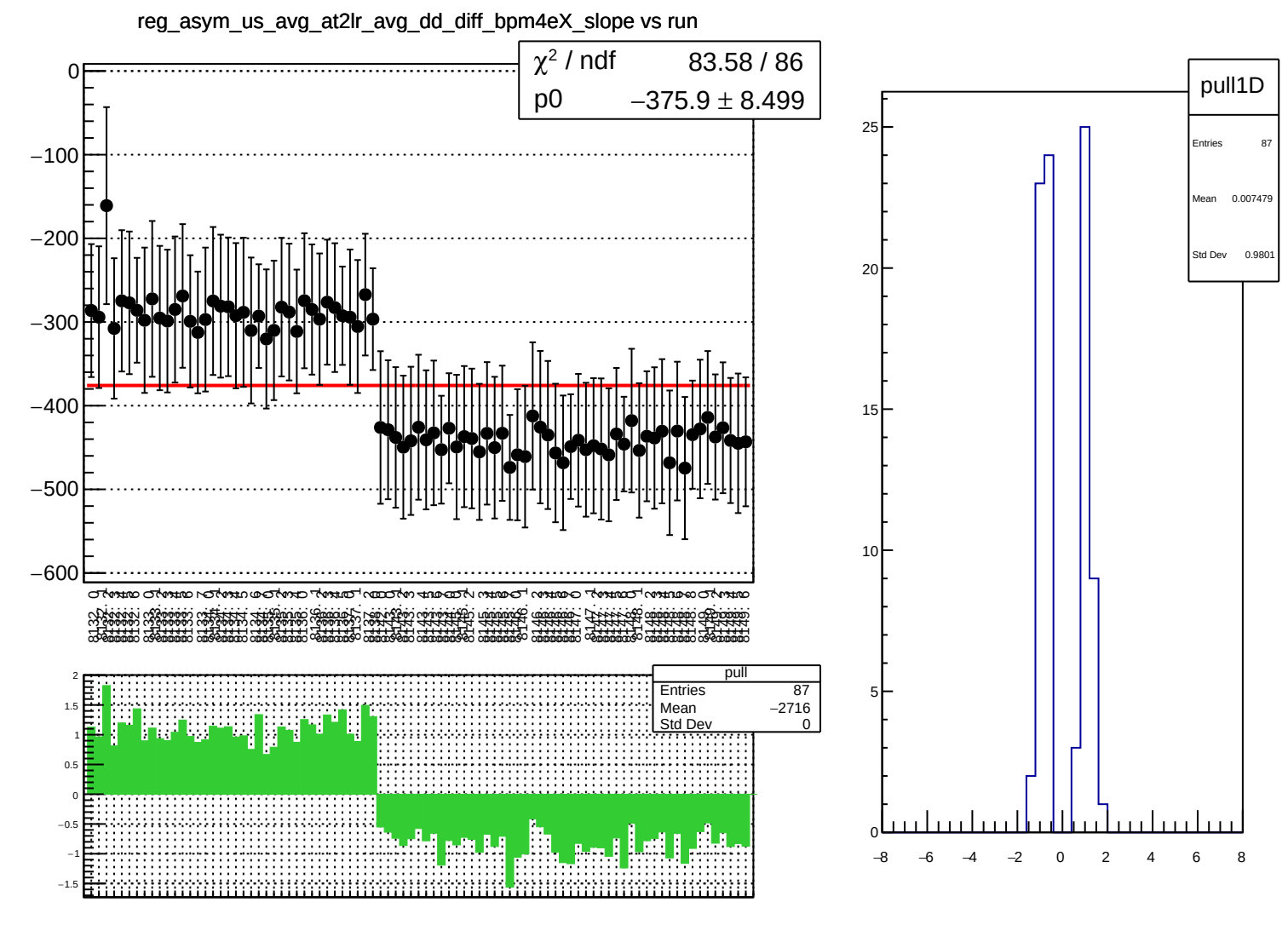

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 65.06 / 86
p0 508.6 ± 11.51
pull
Entries 87
Mean −753.8
Std Dev 0
pull1D
Entries 87
Mean −0.02233
Std Dev 0.8645

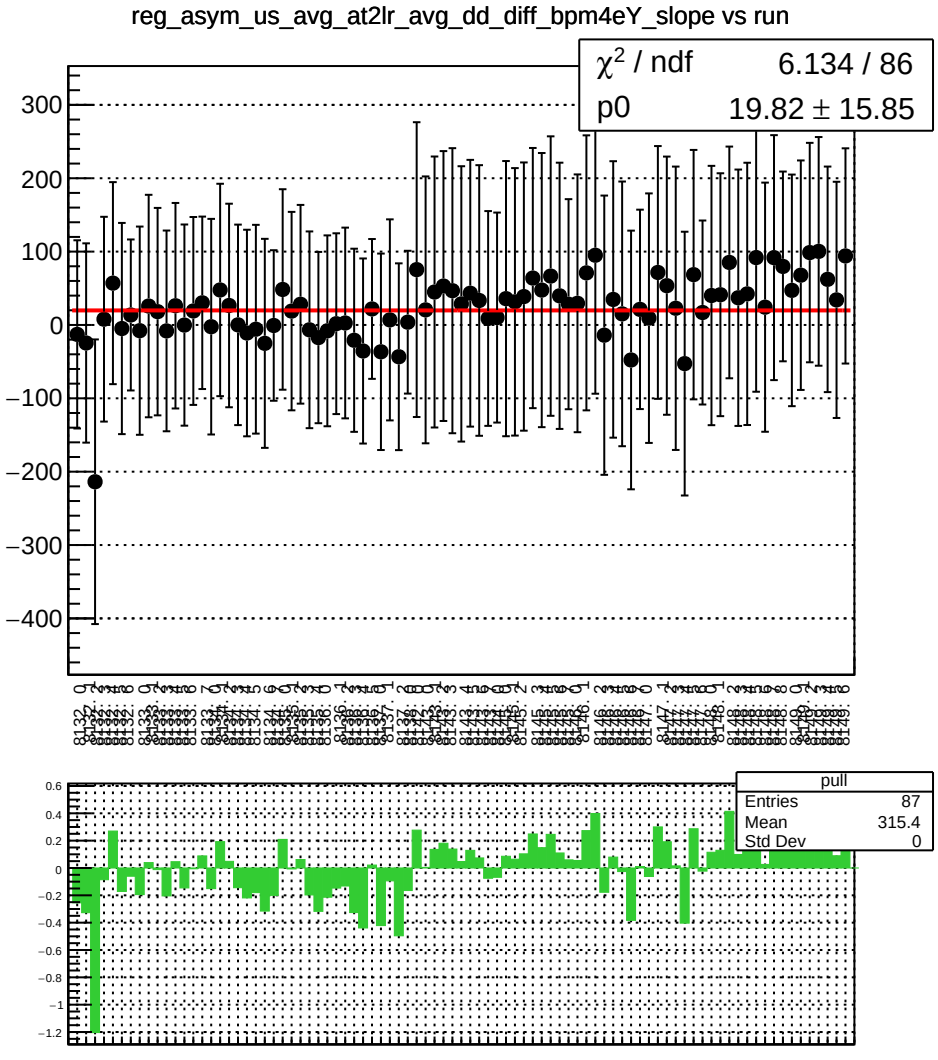

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.832 / 86
p0 −25.7 ± 21.59
pull
Entries 87
Mean 395.9
Std Dev 0
pull1D
Entries 87
Mean −0.009408
Std Dev 0.2355

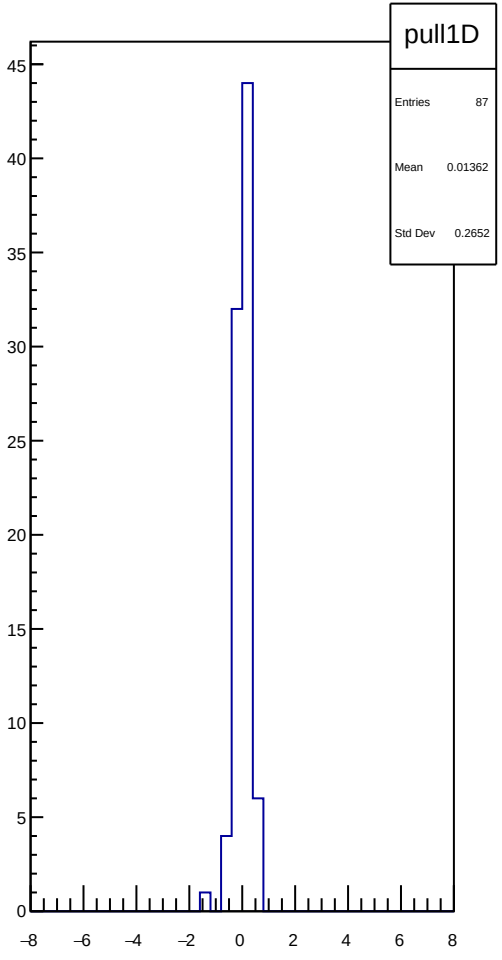

reg_asym_us_avg_at2lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 1575 / 86
p0 −301.7 ± 0.8621
−260
−280
−300
−320
−340
−360
pull
Entries 87
Mean 173.3
Std Dev 0
pull1D
Entries 87
Mean −0.6844
Std Dev 4.2

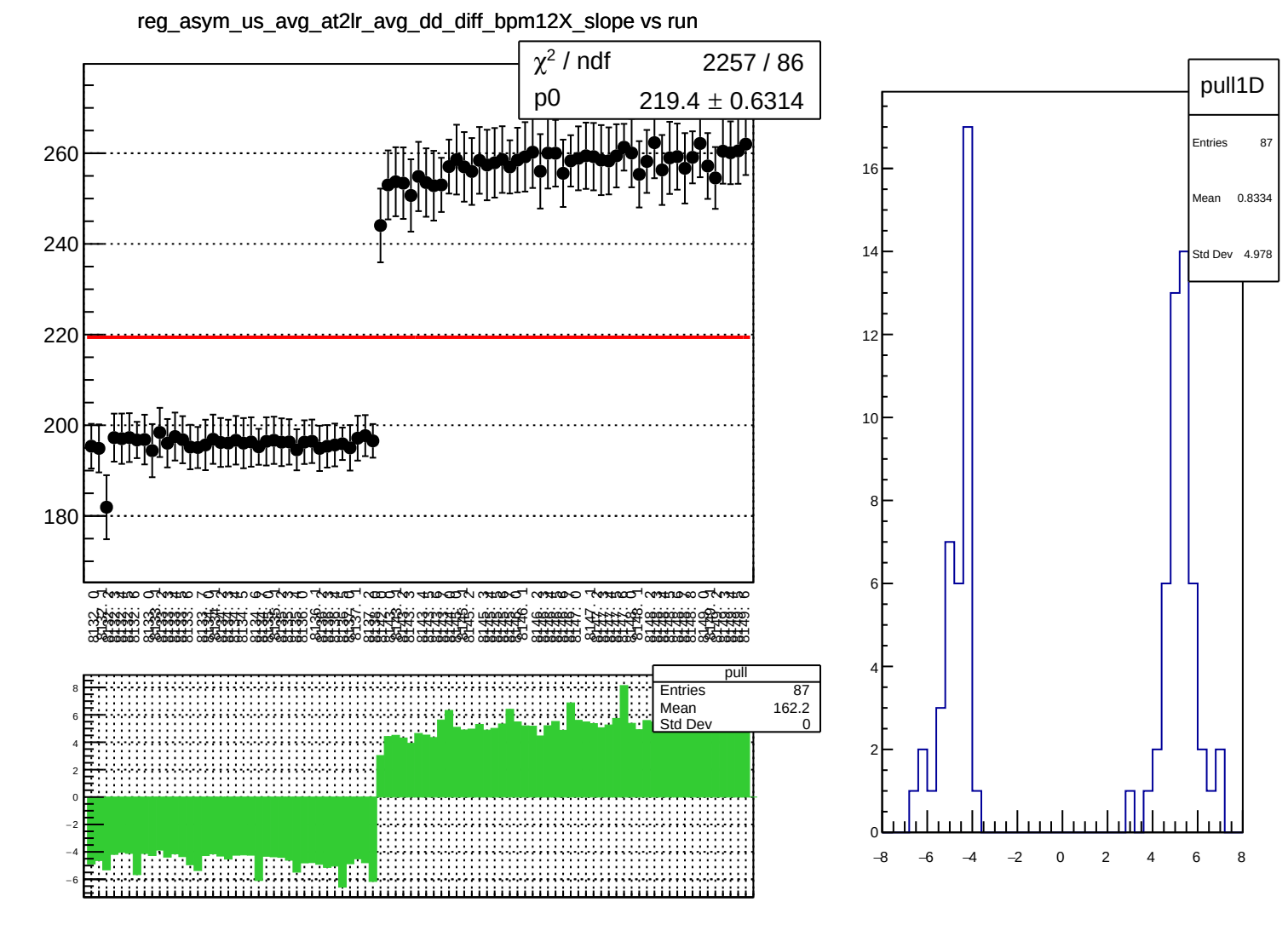

reg_asym_us_avg_at2lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 92.59 / 86
p0 412.8 ± 8.635
pull
Entries 87
Mean −503
Std Dev 0
pull1D
Entries 87
Mean −0.03958
Std Dev 1.031

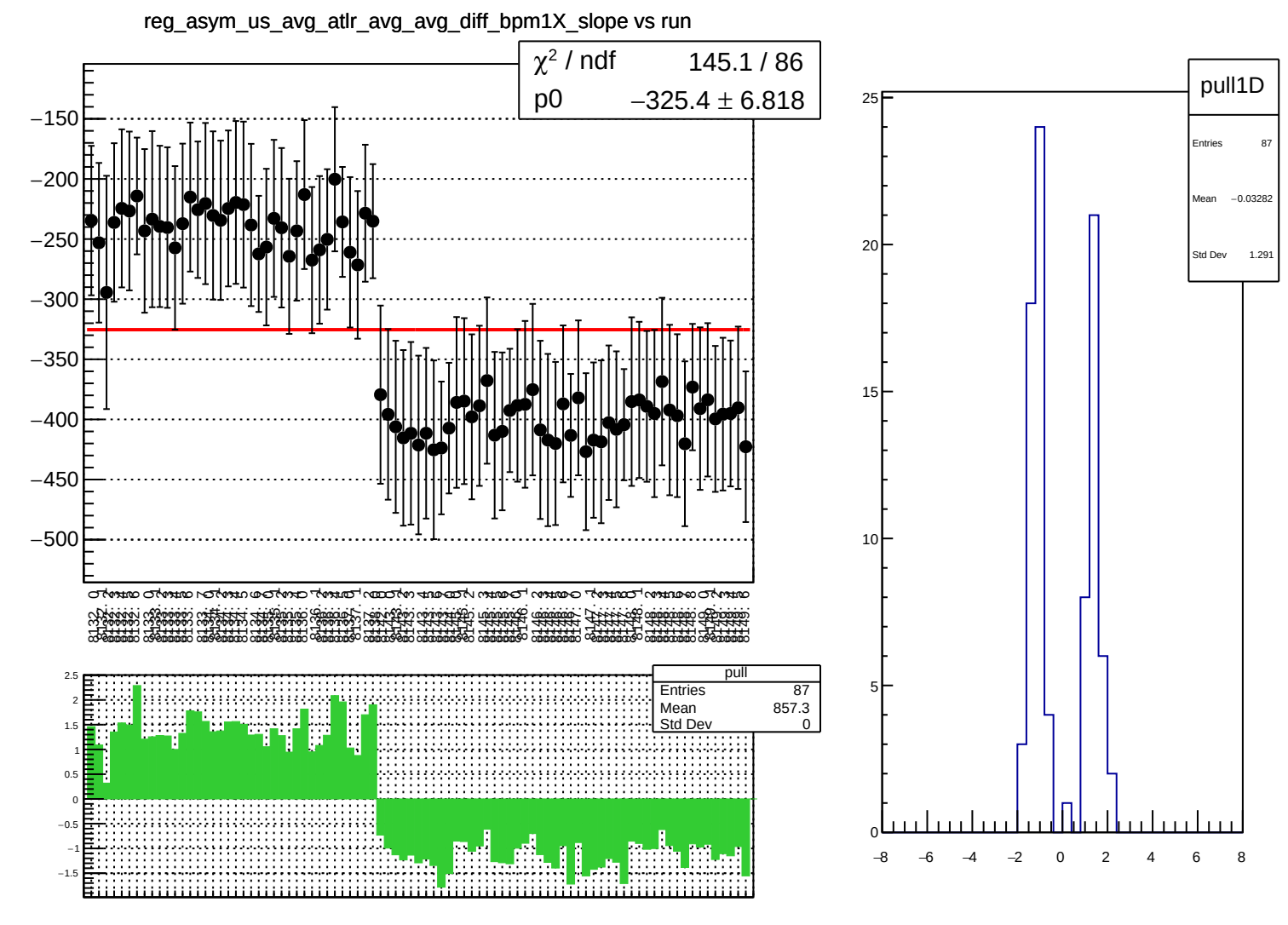

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.496 / 86
p0 −110.5 ± 14.81
pull
Entries 87
Mean 261.7
Std Dev 0
pull1D
Entries 87
Mean −0.0251
Std Dev 0.3115

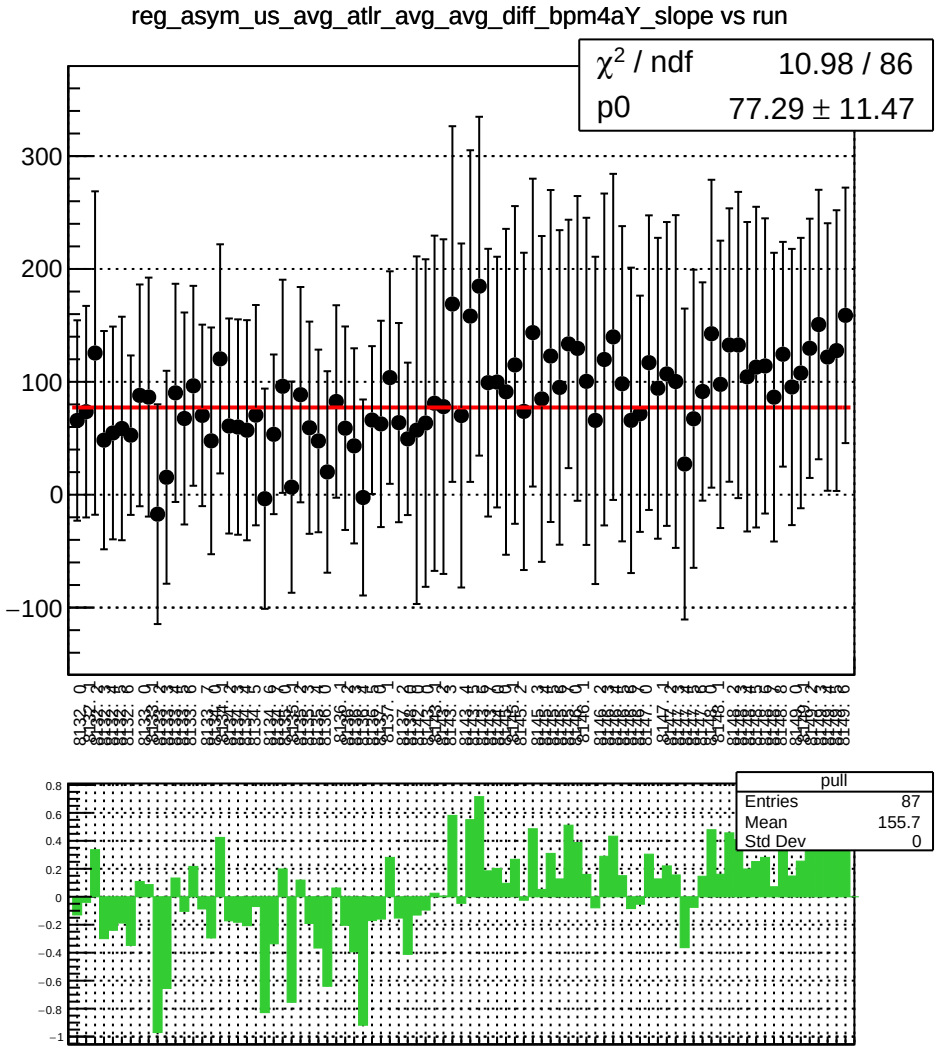

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 83.58 / 86
p0 −375.9 ± 8.499
pull
Entries 87
Mean −2716
Std Dev 0
pull1D
Entries 87
Mean 0.007479
Std Dev 0.9801

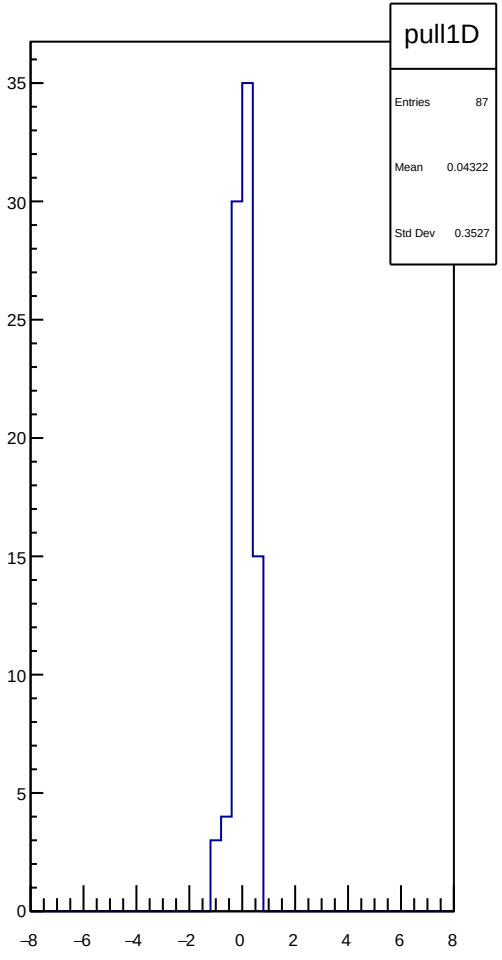

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.134 / 86
p0 19.82 ± 15.85
pull
Entries 87
Mean 315.4
Std Dev 0

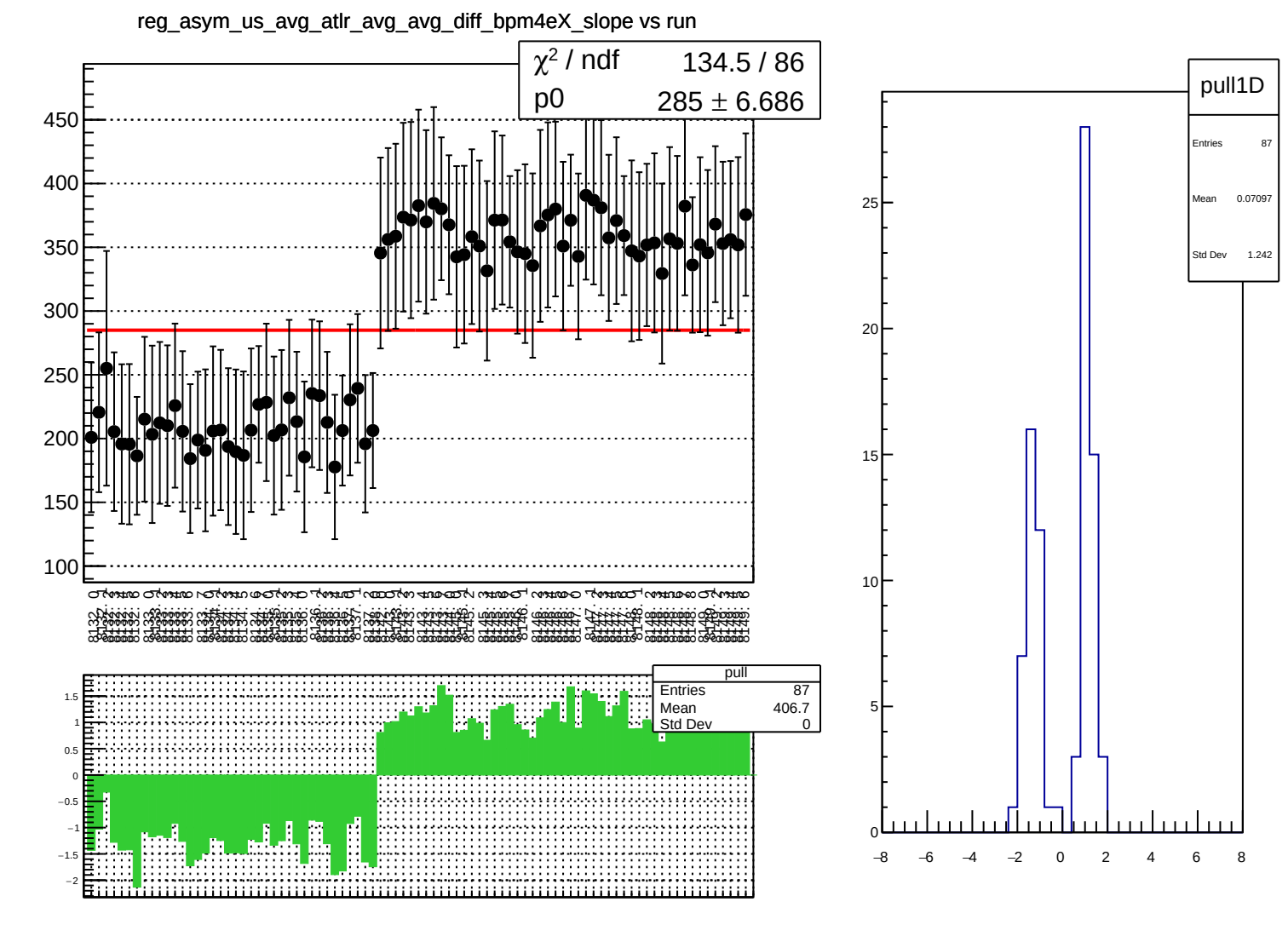

pull1D
Entries 87
Mean 0.01362
Std Dev 0.2652

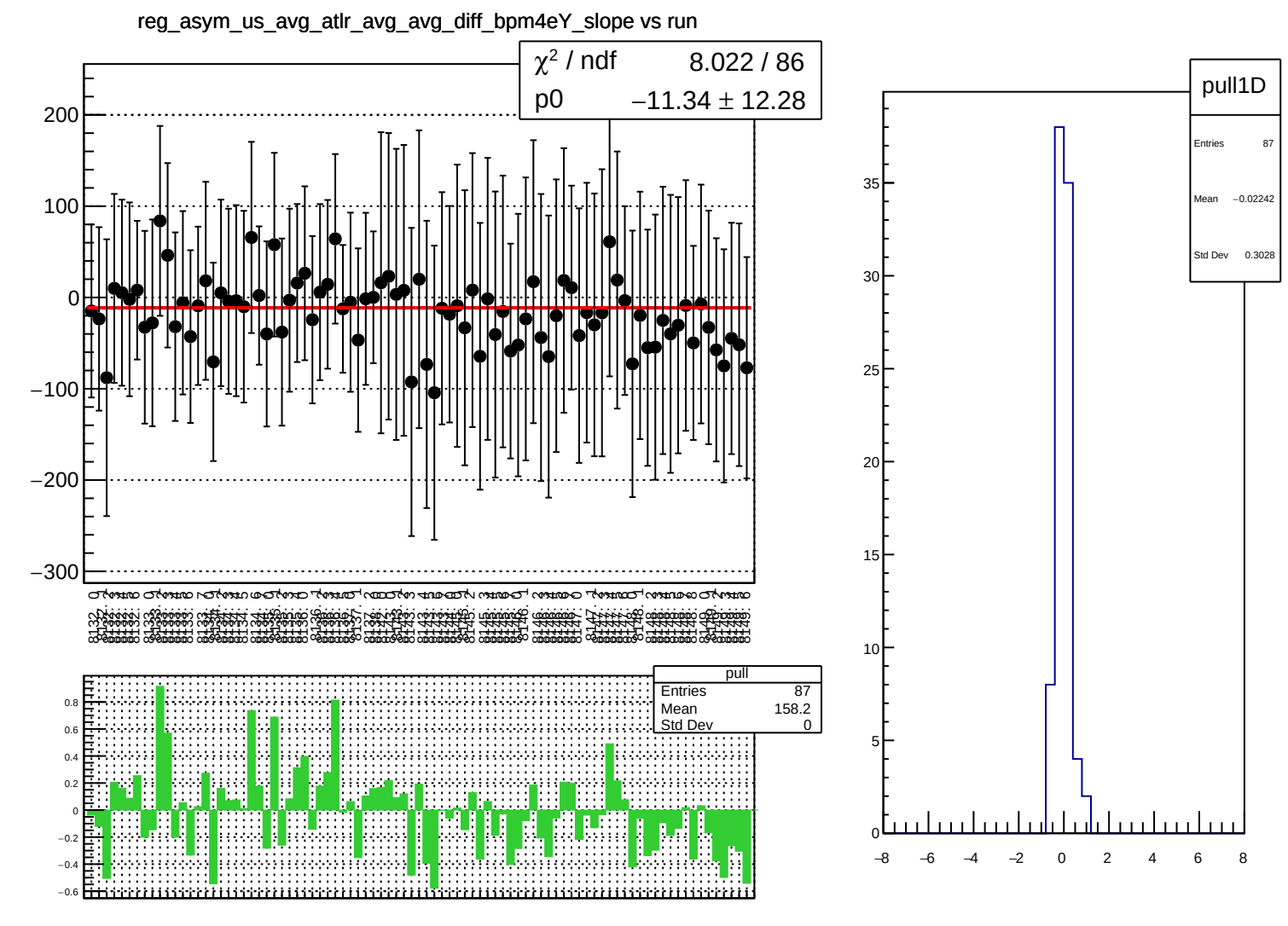

reg_asym_us_avg_at2lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 2257 / 86
p0 219.4 ± 0.6314
260
240
220
200
180
pull
Entries 87
Mean 162.2
Std Dev 0
8
6
4
2
0
−2
−4
−6
pull1D
Entries 87
Mean 0.8334
Std Dev 4.978
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

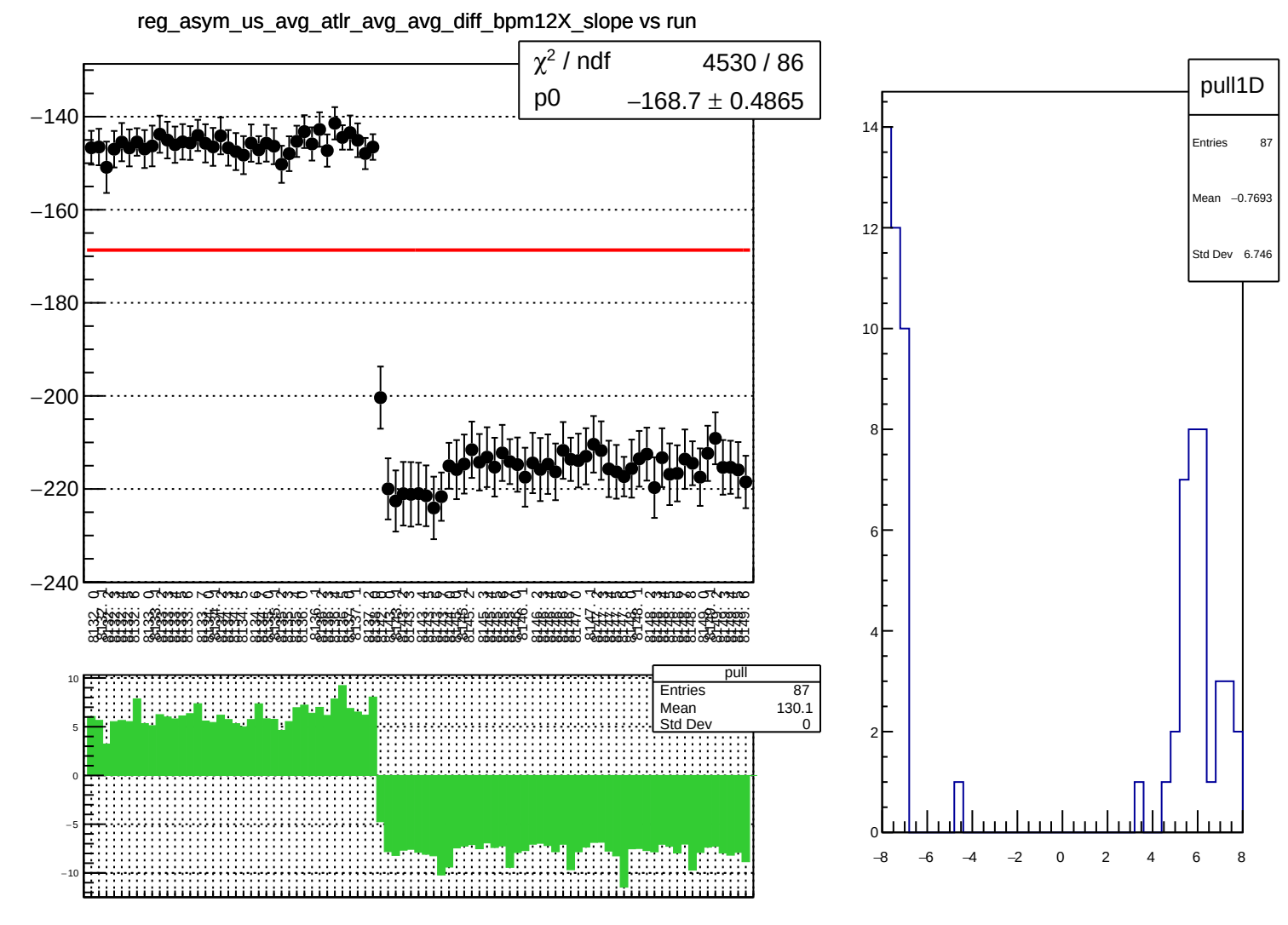

reg_asym_us_avg_atlr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 145.1 / 86
p0 −325.4 ± 6.818
pull
Entries 87
Mean 857.3
Std Dev 0
pull1D
Entries 87
Mean −0.03282
Std Dev 1.291

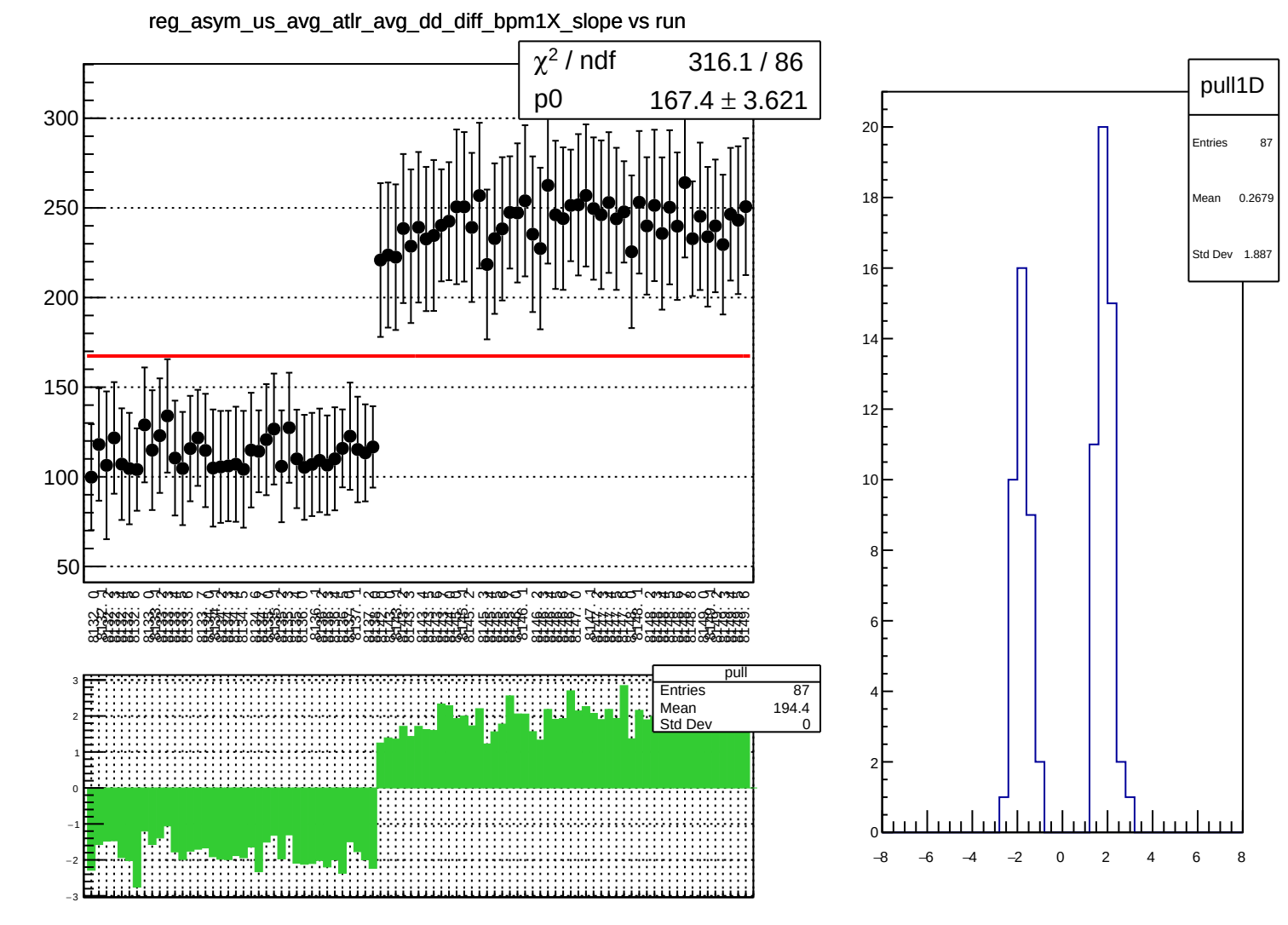

reg_asym_us_avg_atlr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 10.98 / 86
p0 77.29 ± 11.47
pull
Entries 87
Mean 155.7
Std Dev 0

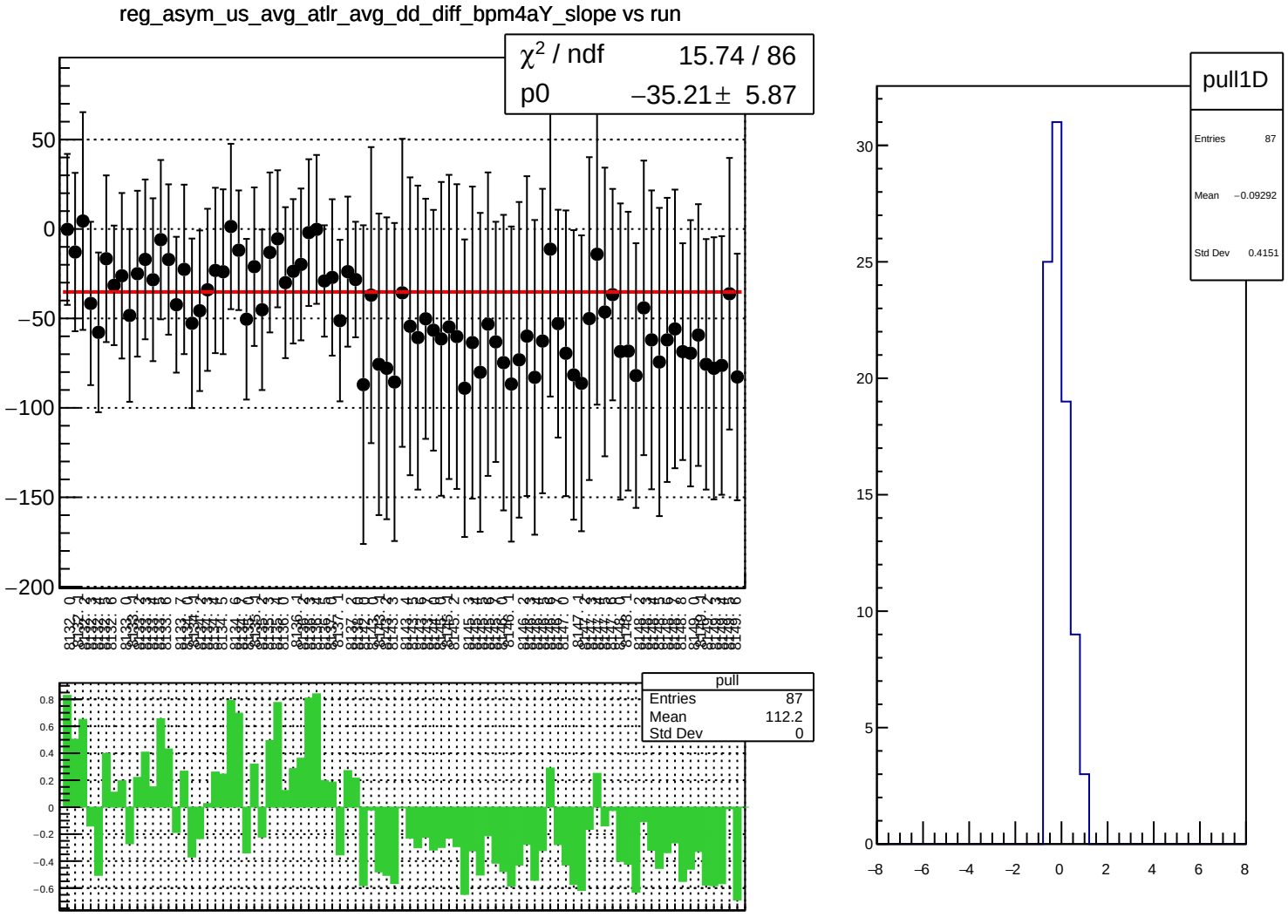

pull1D
Entries 87
Mean 0.04322
Std Dev 0.3527

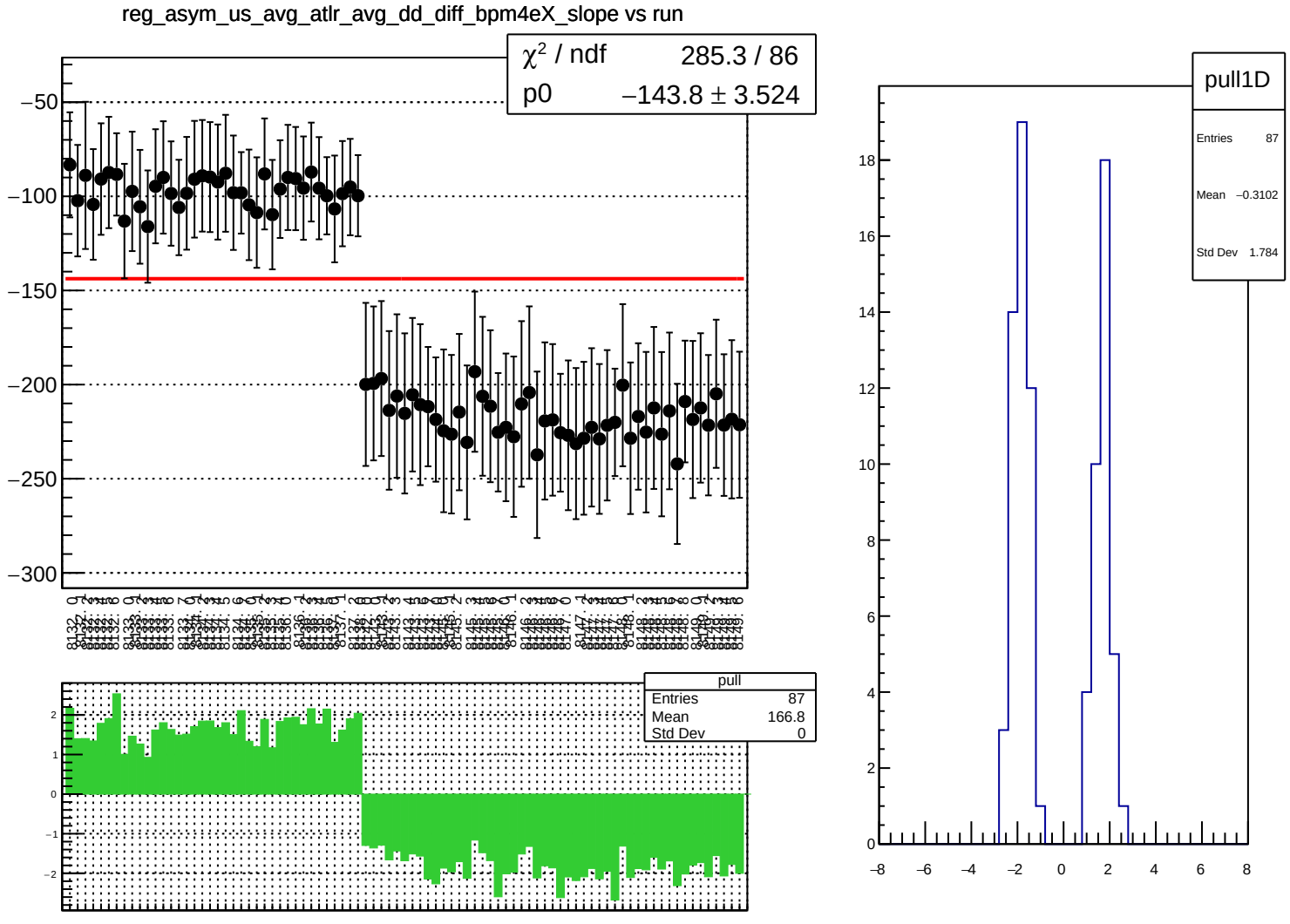

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 134.5 / 86
p0 285 ± 6.686
pull
Entries 87
Mean 406.7
Std Dev 0
pull1D
Entries 87
Mean 0.07097
Std Dev 1.242

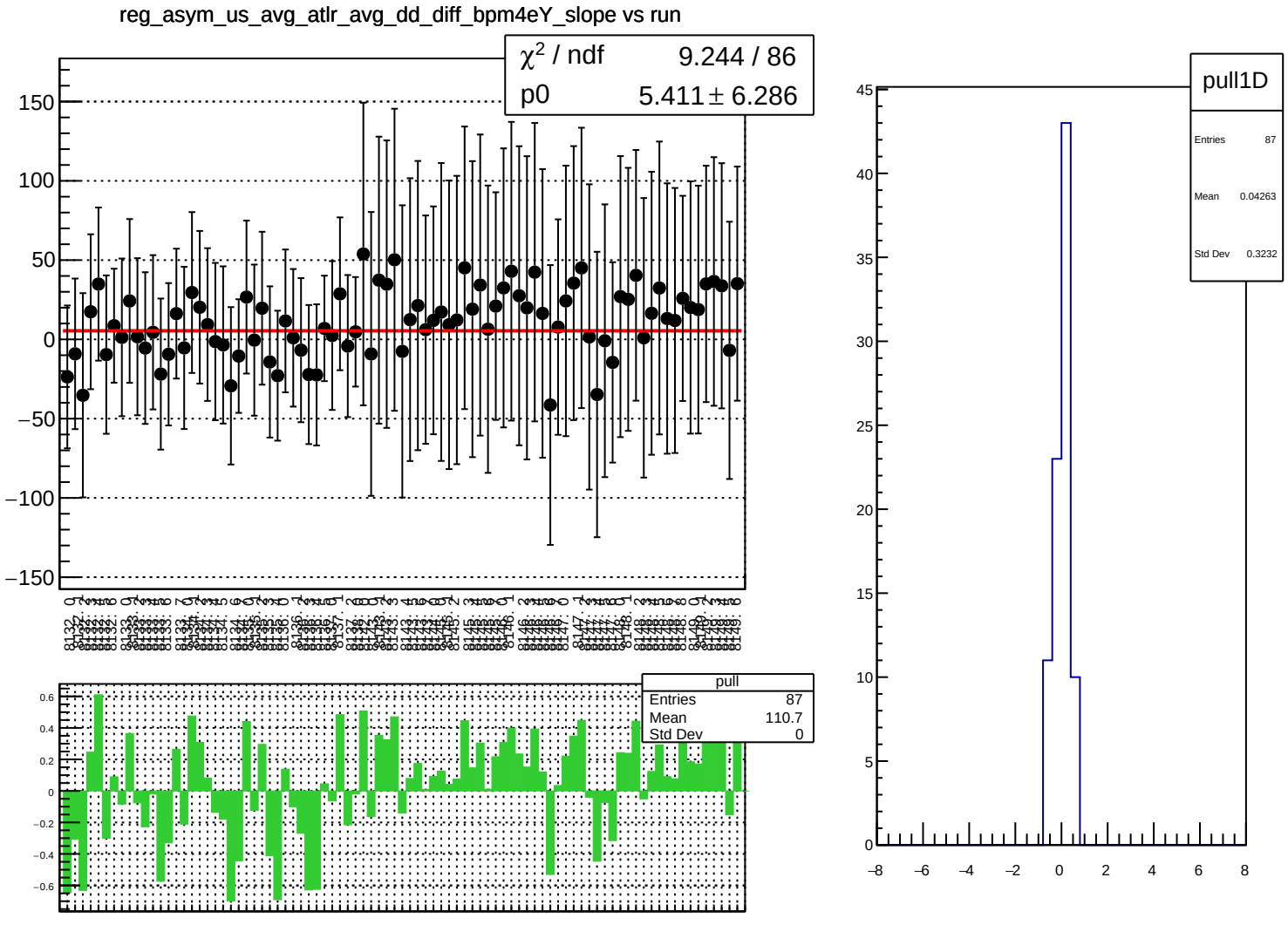

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.022 / 86
p0 −11.34 ± 12.28
200
100
0
−100
−200
−300
pull
Entries 87
Mean 158.2
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 87
Mean −0.02242
Std Dev 0.3028
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

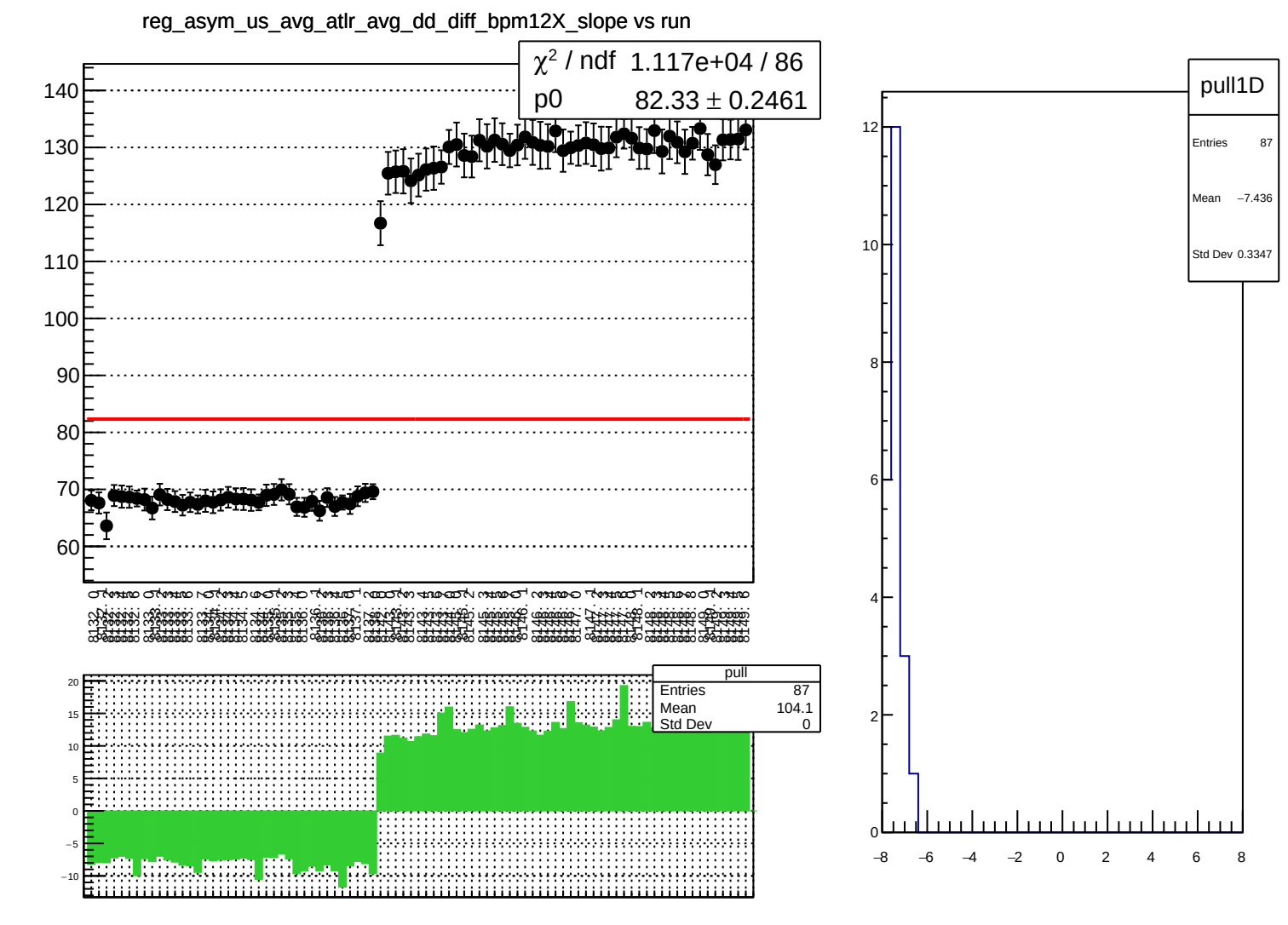

reg_asym_us_avg_atlr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 4530 / 86
p0 −168.7 ± 0.4865
−140
−160
−180
−200
−220
−240
pull
Entries 87
Mean 130.1
Std Dev 0
10
5
0
−5
−10
pull1D
Entries 87
Mean −0.7693
Std Dev 6.746
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

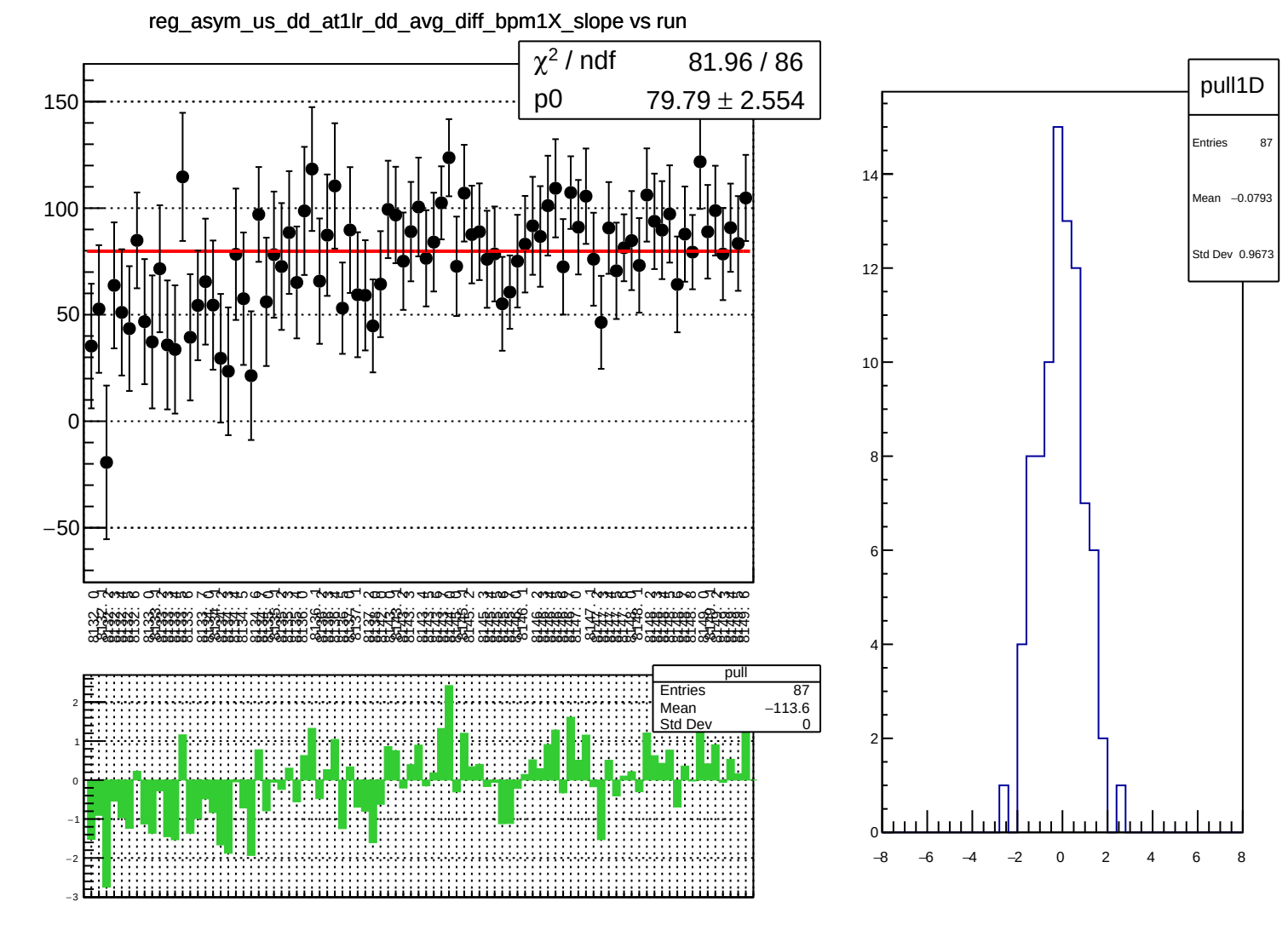

reg_asym_us_avg_atlr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 316.1 / 86
p0 167.4 ± 3.621
pull
Entries 87
Mean 194.4
Std Dev 0
pull1D
Entries 87
Mean 0.2679
Std Dev 1.887

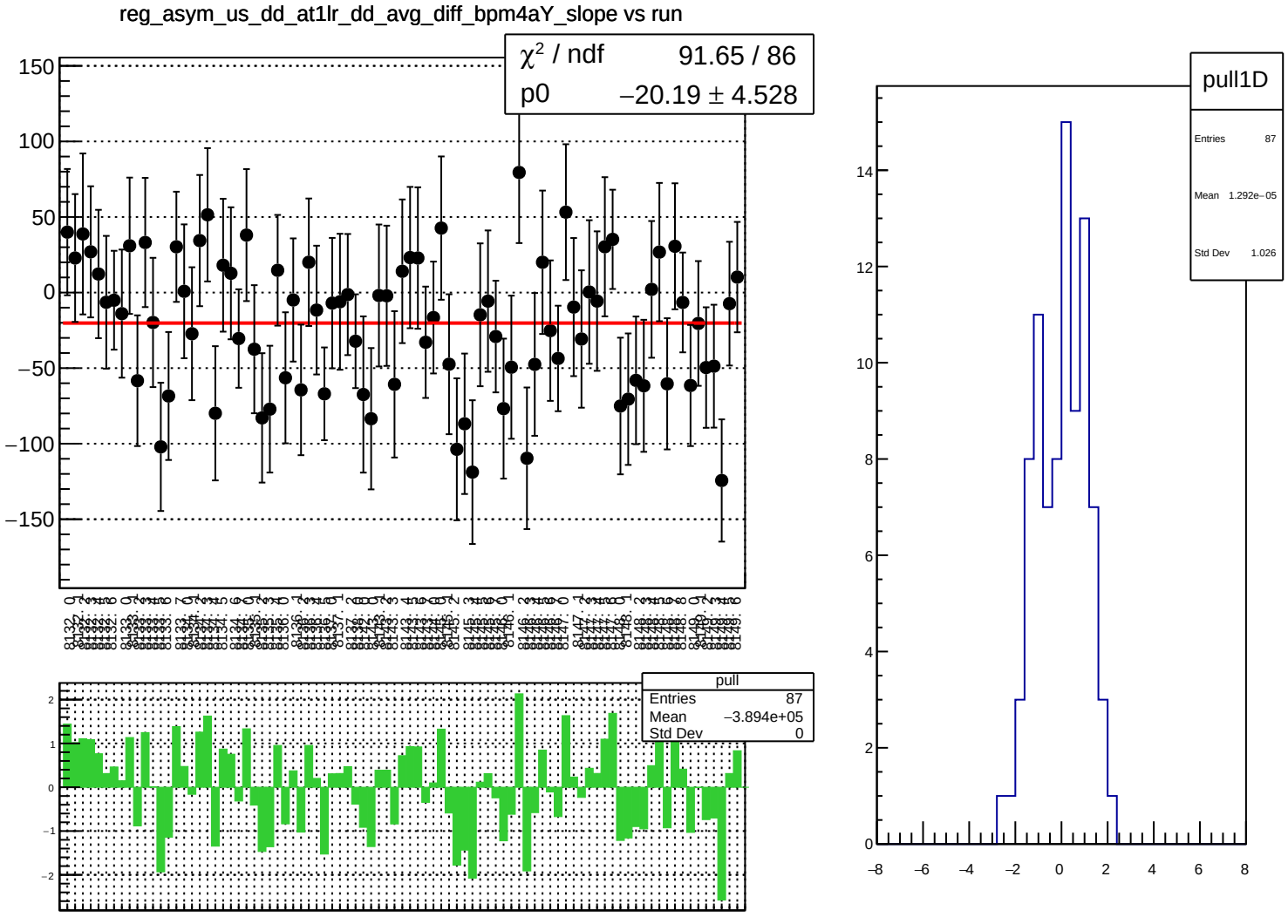

reg_asym_us_avg_atlr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 15.74 / 86
p0 −35.21 ± 5.87
50
0
−50
−100
−150
−200
pull
Entries 87
Mean 112.2
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 87
Mean −0.09292
Std Dev 0.4151
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

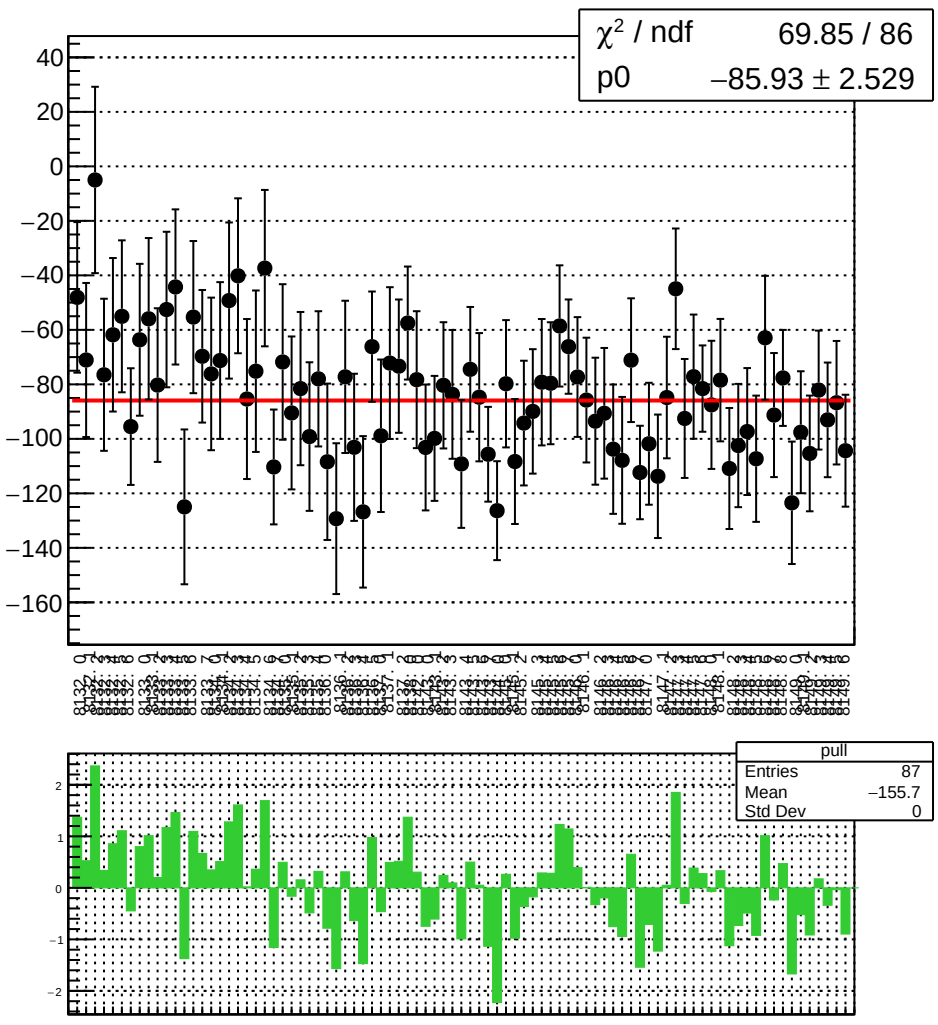

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 285.3 / 86
p0 −143.8 ± 3.524
−50
−100
−150
−200
−250
−300
pull
Entries 87
Mean 166.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 87
Mean −0.3102
Std Dev 1.784
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

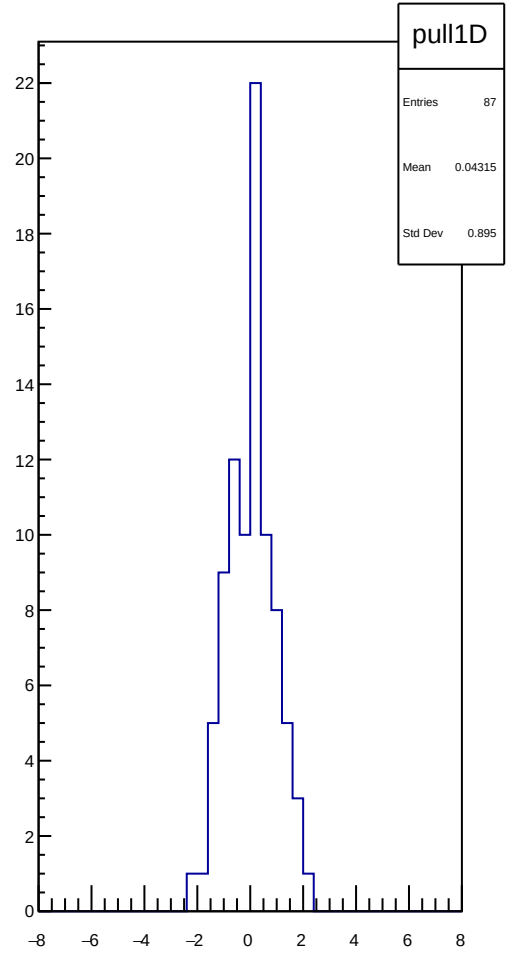

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.244 / 86
p0 5.411 ± 6.286
pull
Entries 87
Mean 110.7
Std Dev 0
pull1D
Entries 87
Mean 0.04263
Std Dev 0.3232

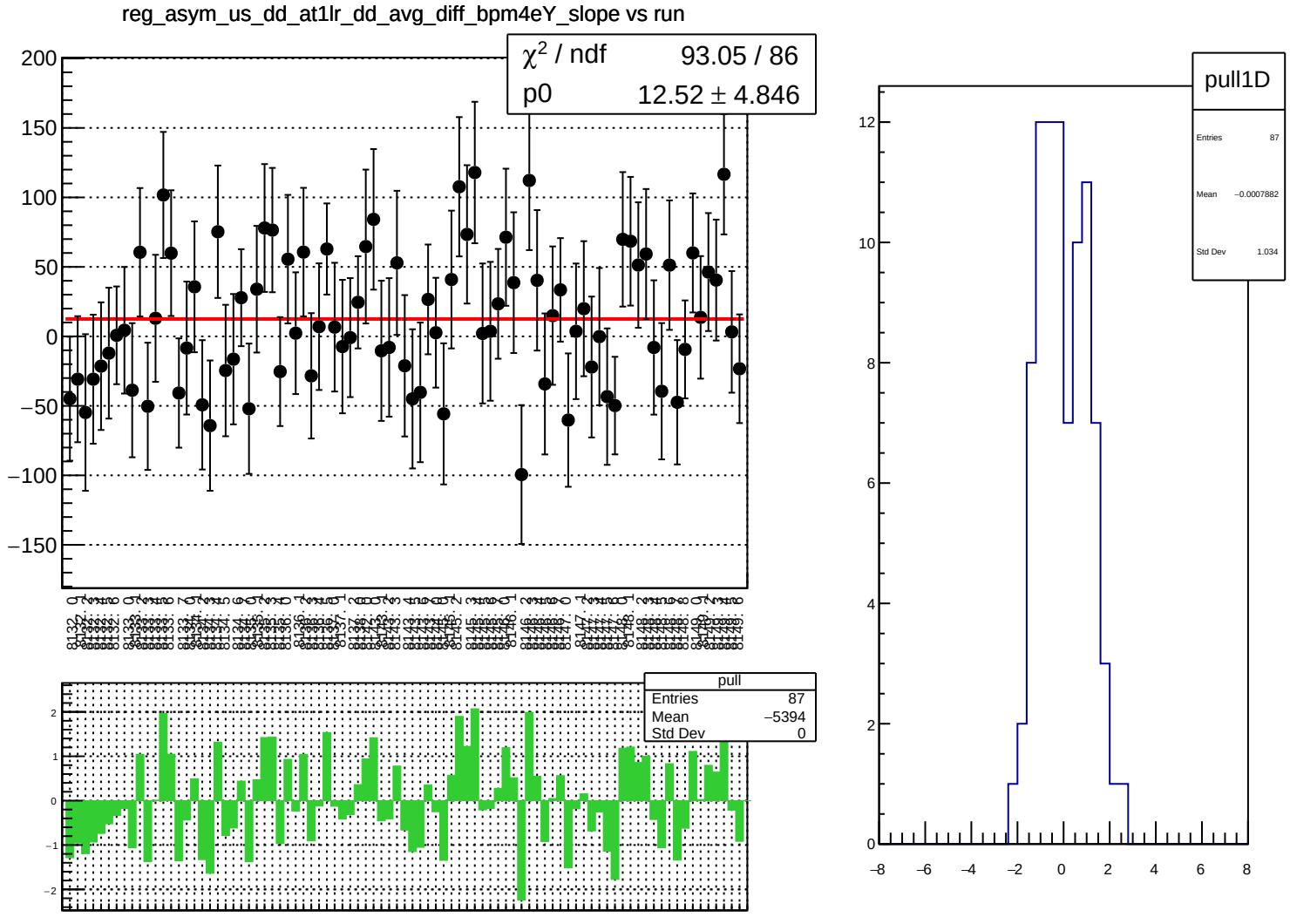

reg_asym_us_avg_atlr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 1.117e+04 / 86
p0 82.33 ± 0.2461
pull
Entries 87
Mean 104.1
Std Dev 0
pull1D
Entries 87
Mean −7.436
Std Dev 0.3347

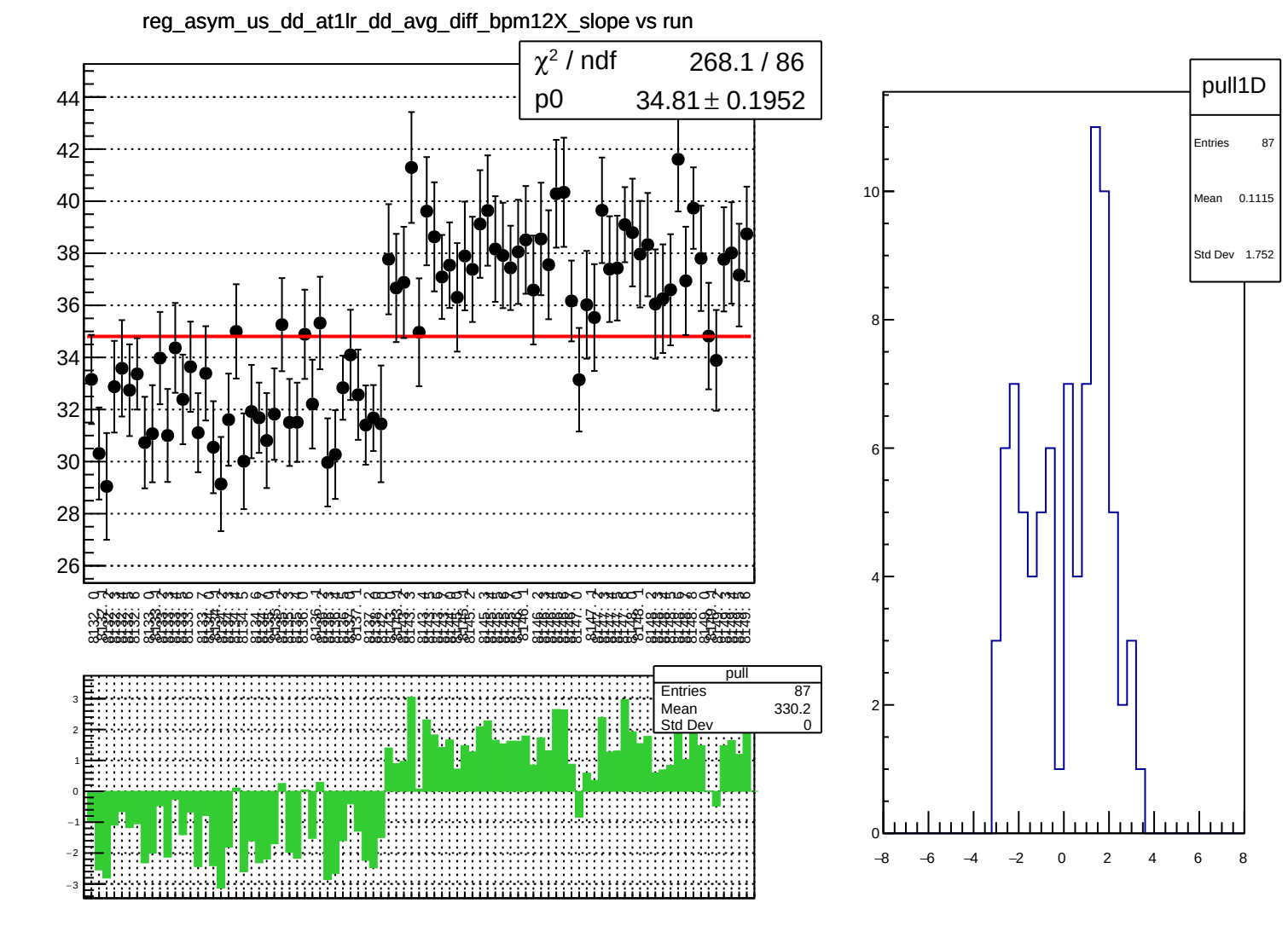

reg_asym_us_dd_at1lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 81.96 / 86
p0 79.79 ± 2.554
150
100
50
0
−50
pull
Entries 87
Mean −113.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean −0.0793
Std Dev 0.9673
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

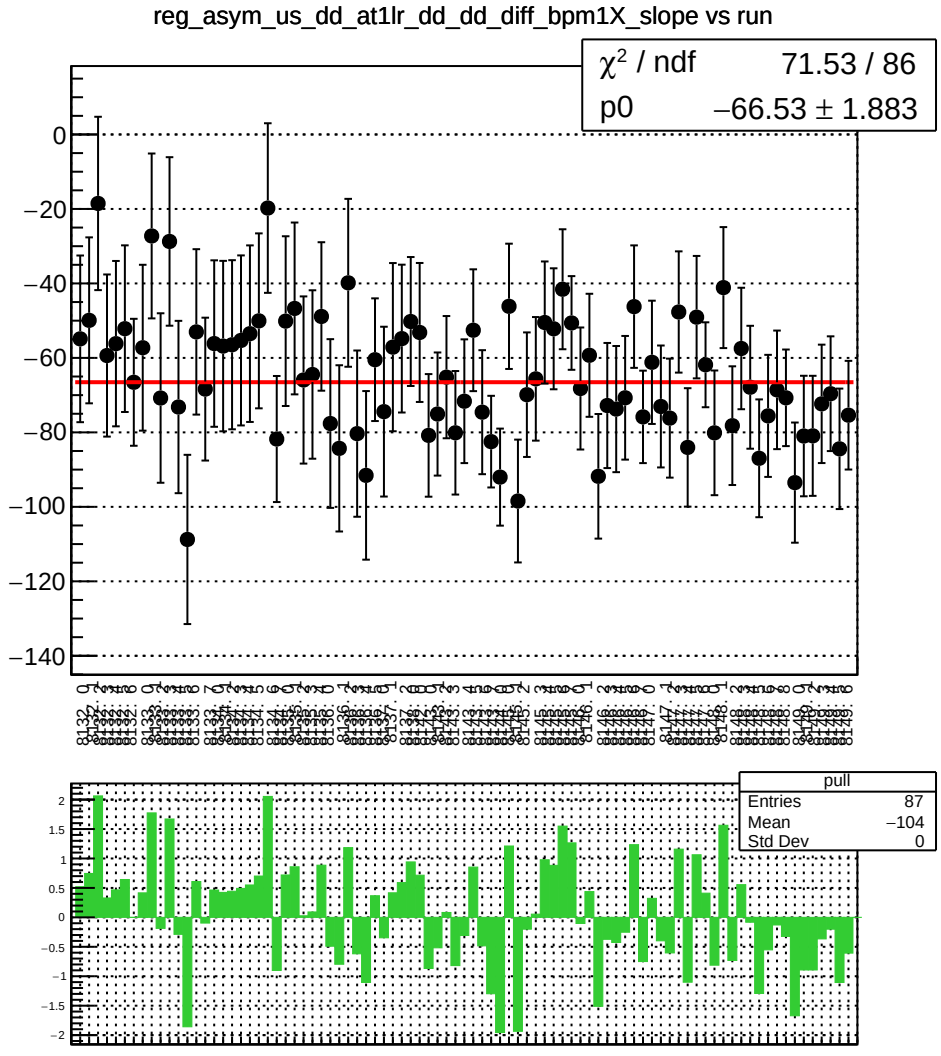

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 91.65 / 86
p0 −20.19 ± 4.528
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean −3.894e+05
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 87
Mean 1.292e−05
Std Dev 1.026
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

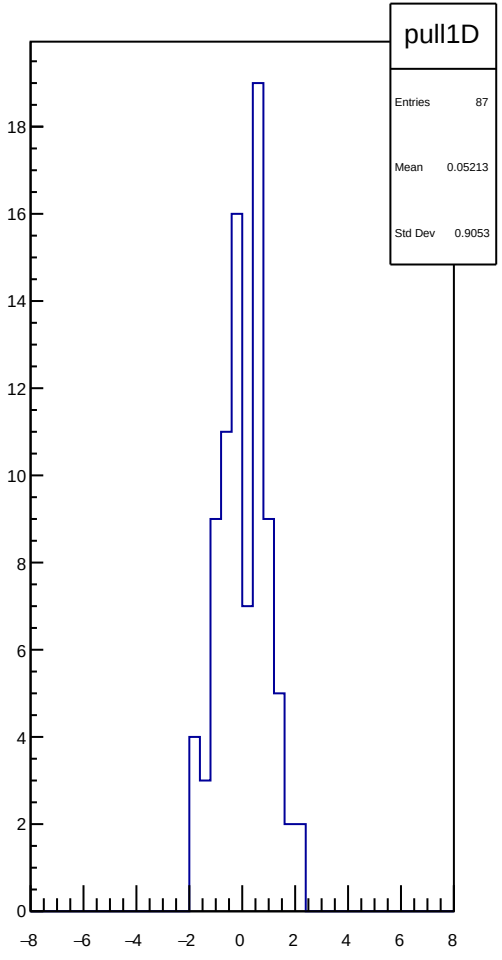

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 69.85 / 86
p0 −85.93 ± 2.529
pull
Entries 87
Mean −155.7
Std Dev 0

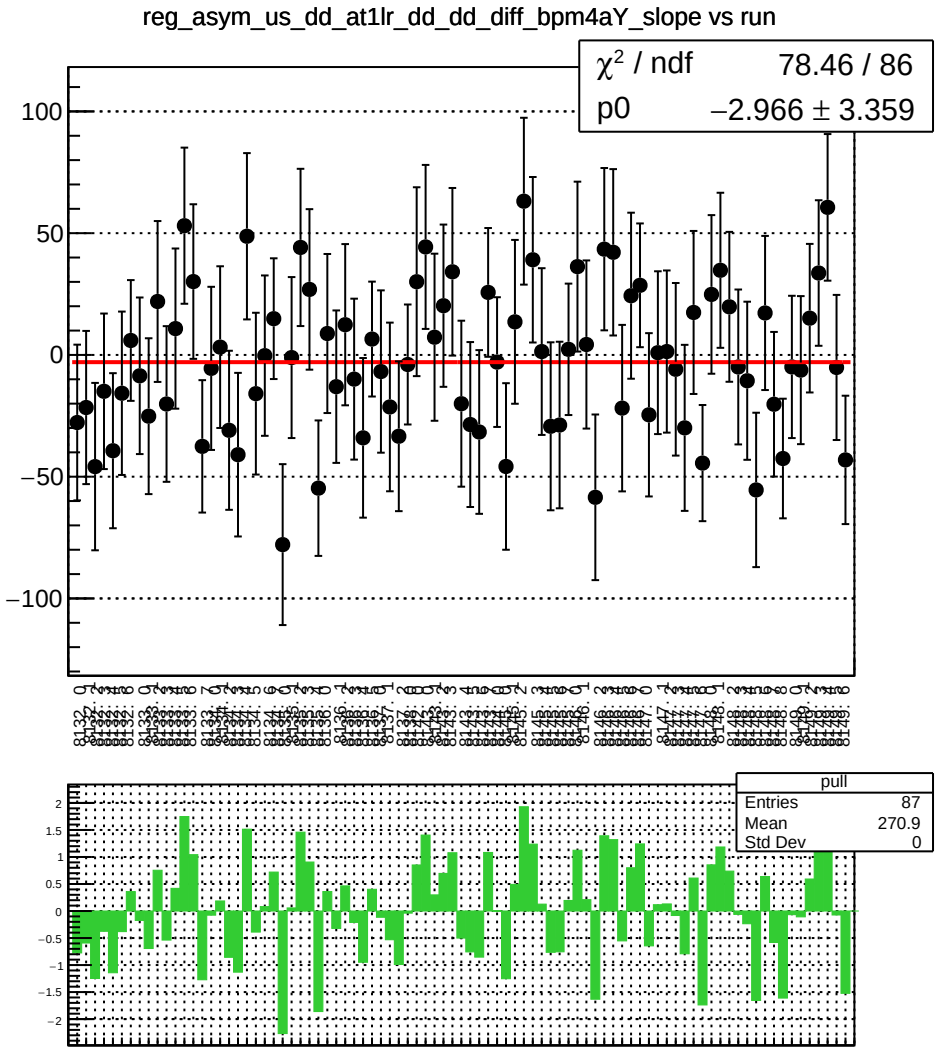

pull1D
Entries 87
Mean 0.04315
Std Dev 0.895

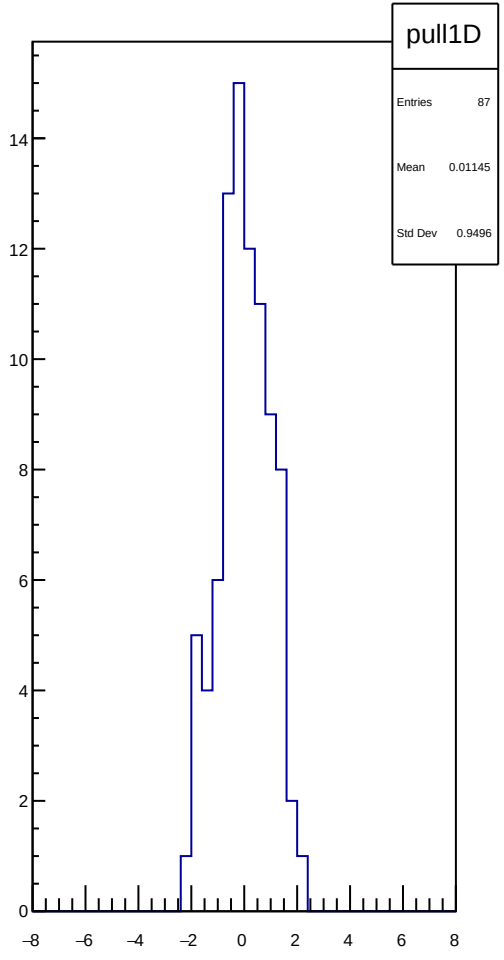

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 93.05 / 86
p0 12.52 ± 4.846
pull
Entries 87
Mean −5394
Std Dev 0
pull1D
Entries 87
Mean −0.0007882
Std Dev 1.034

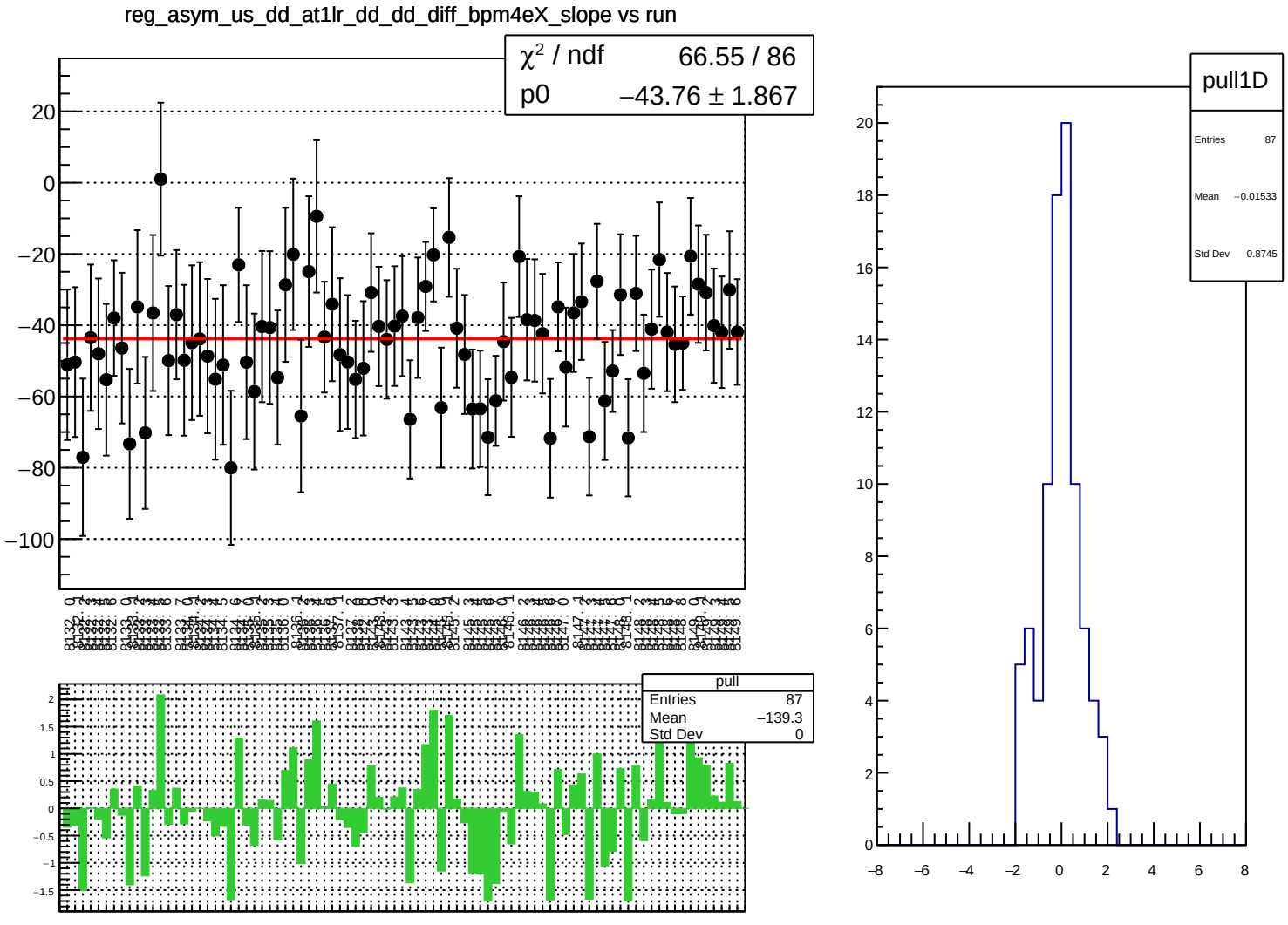

reg_asym_us_dd_at1lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 268.1 / 86
p0 34.81 ± 0.1952
pull
Entries 87
Mean 330.2
Std Dev 0
pull1D
Entries 87
Mean 0.1115
Std Dev 1.752

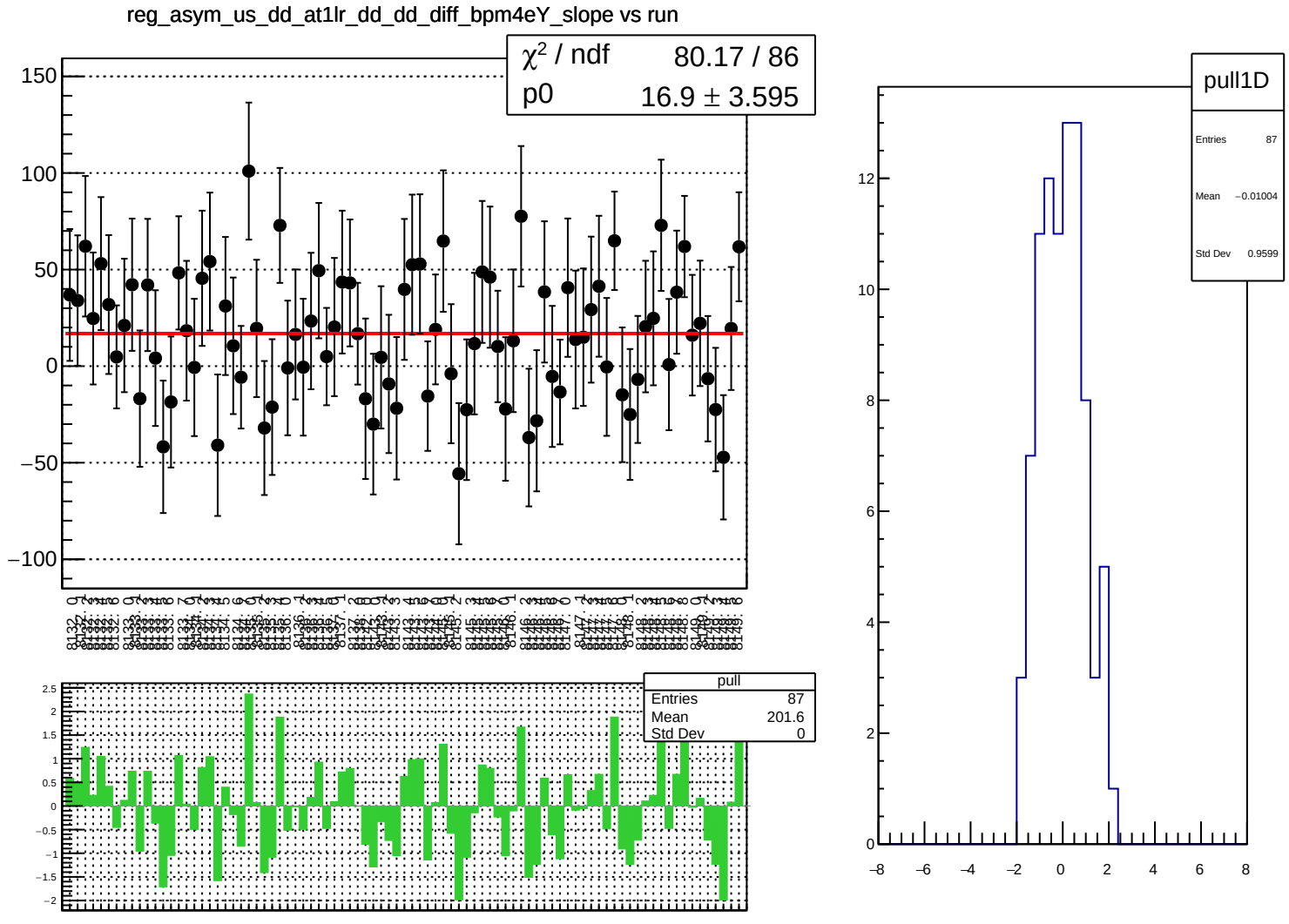

reg_asym_us_dd_at1lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 71.53 / 86
p0 −66.53 ± 1.883
pull
Entries 87
Mean −104
Std Dev 0

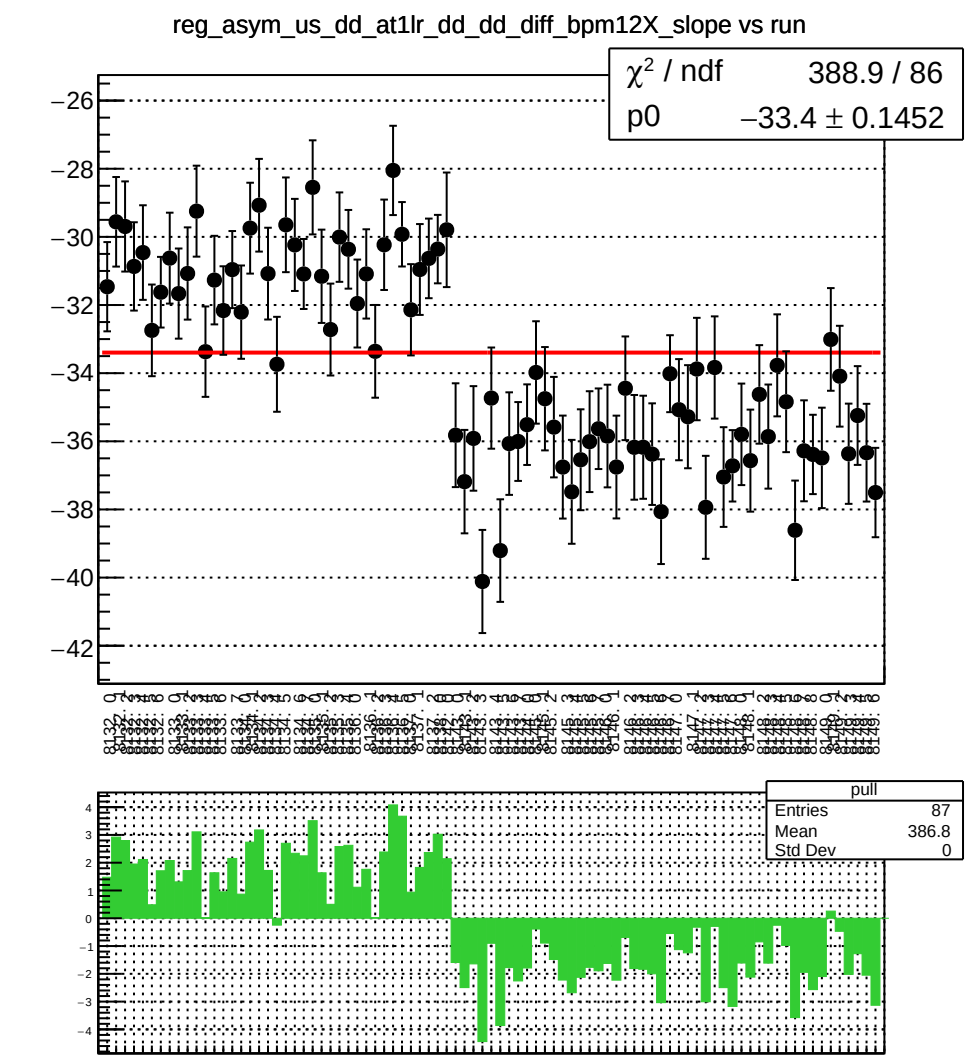

pull1D
Entries 87
Mean 0.05213
Std Dev 0.9053

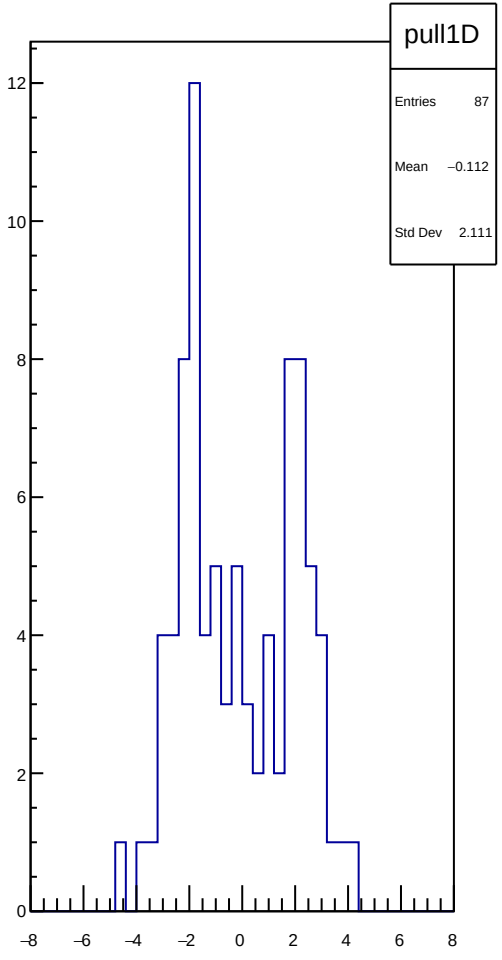

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 78.46 / 86
p0 −2.966 ± 3.359
100
50
0
−50
−100
pull
Entries 87
Mean 270.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

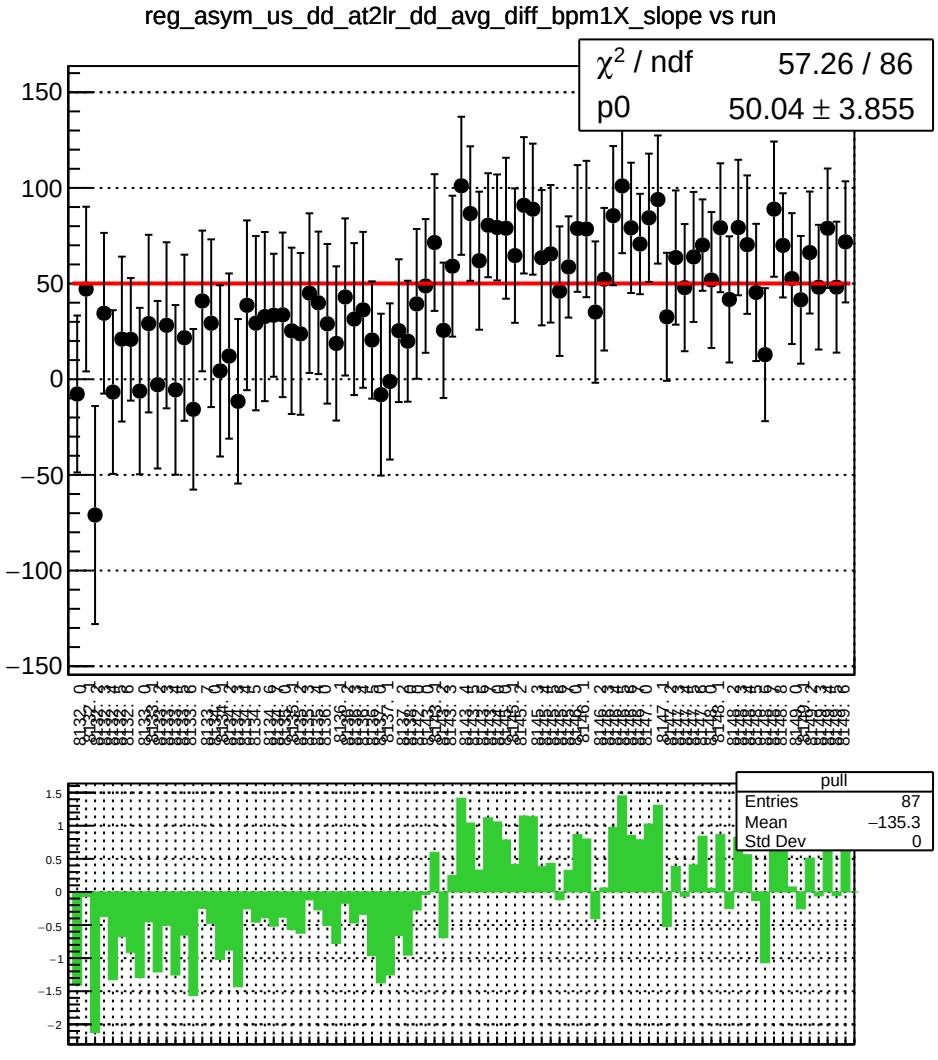

pull1D
Entries 87
Mean 0.01145
Std Dev 0.9496
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

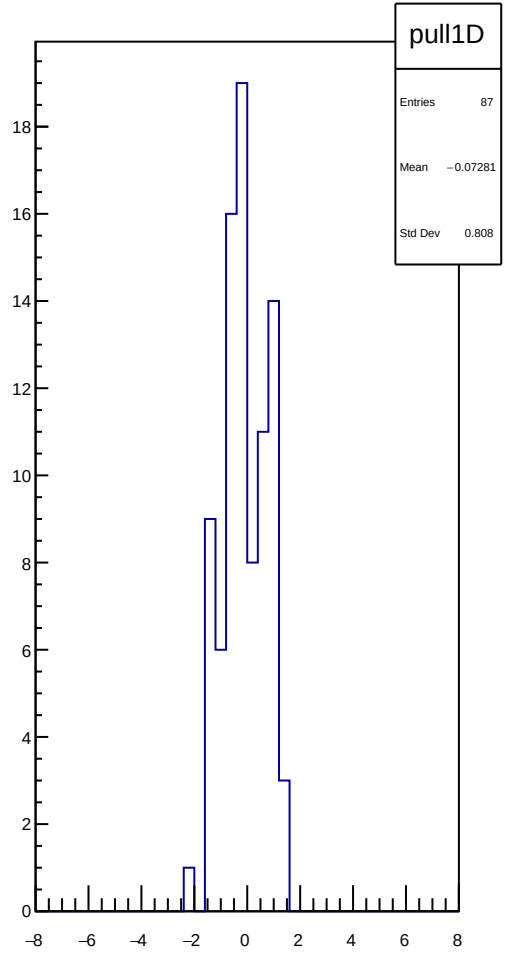

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 66.55 / 86
p0 −43.76 ± 1.867
pull
Entries 87
Mean −139.3
Std Dev 0
pull1D
Entries 87
Mean −0.01533
Std Dev 0.8745

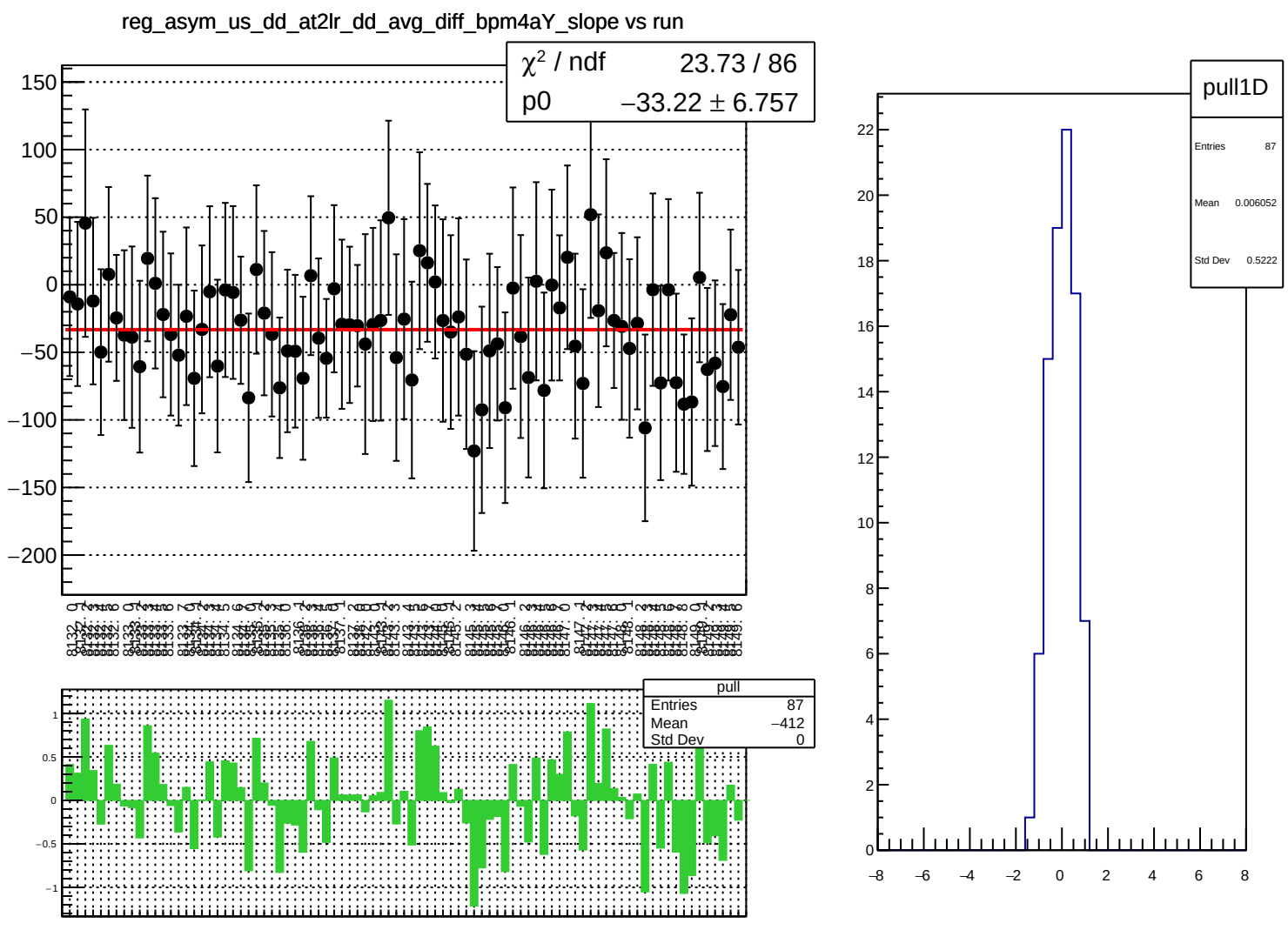

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 80.17 / 86
p0 16.9 ± 3.595
150
100
50
0
−50
−100
pull
Entries 87
Mean 201.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 87
Mean −0.01004
Std Dev 0.9599
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

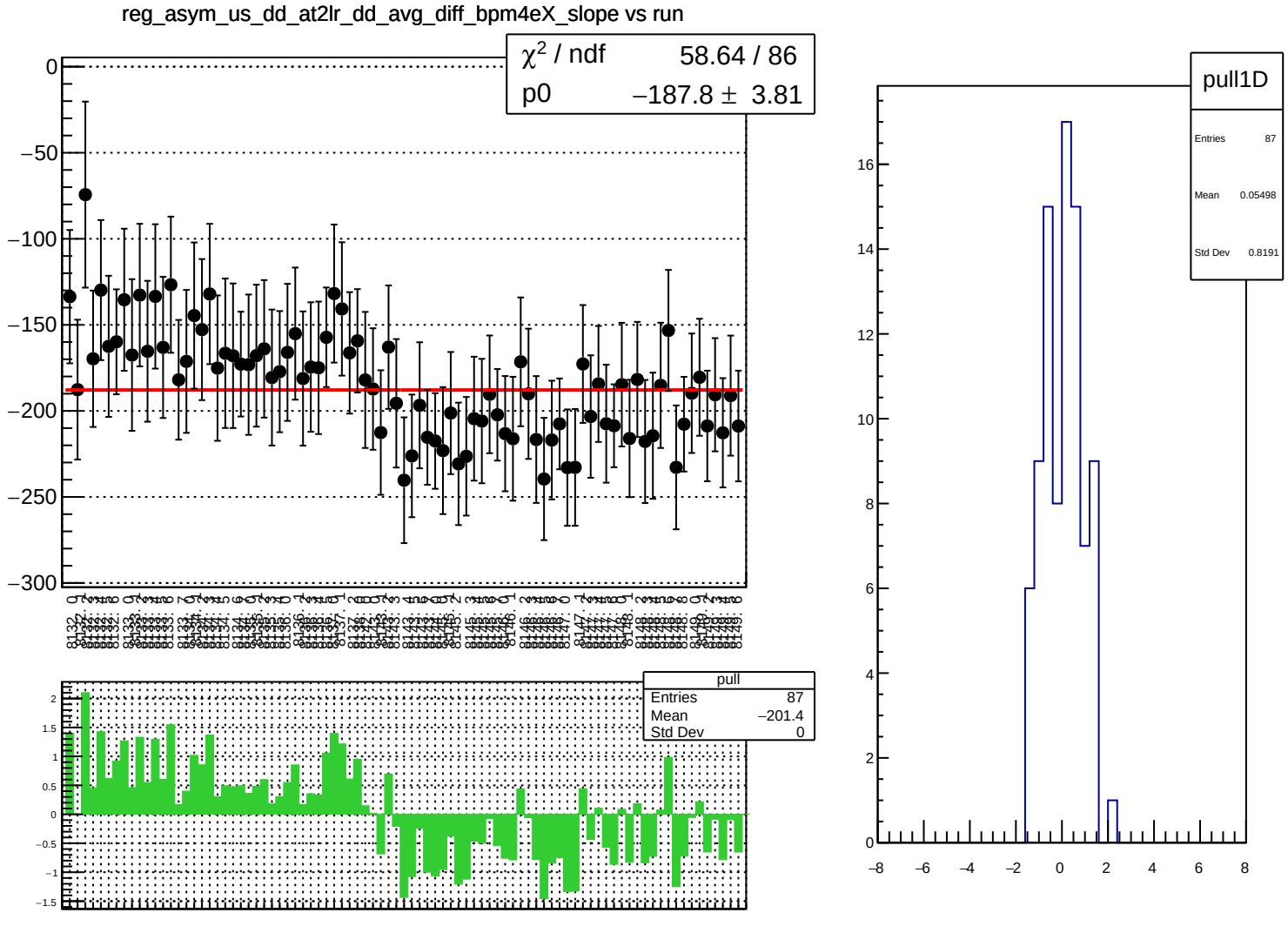

reg_asym_us_dd_at1lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 388.9 / 86
p0 −33.4 ± 0.1452
pull
Entries 87
Mean 386.8
Std Dev 0

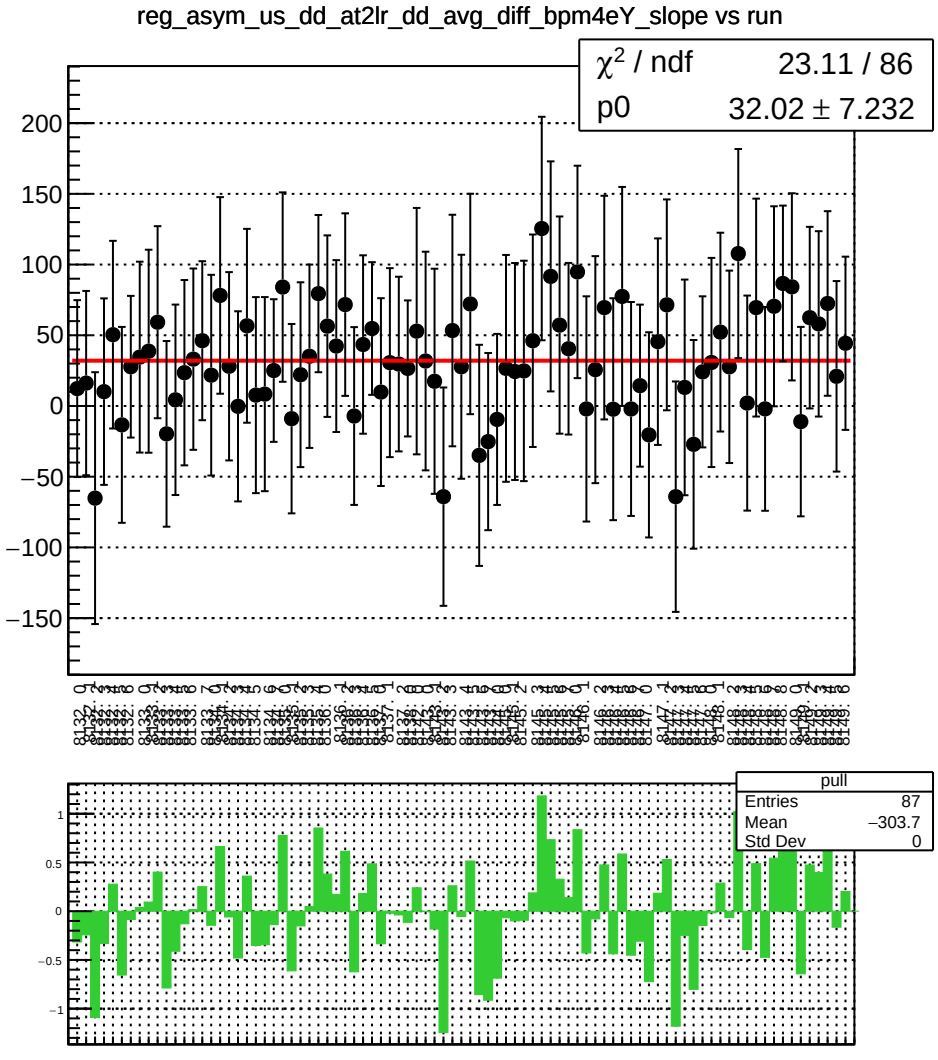

pull1D
Entries 87
Mean −0.112
Std Dev 2.111

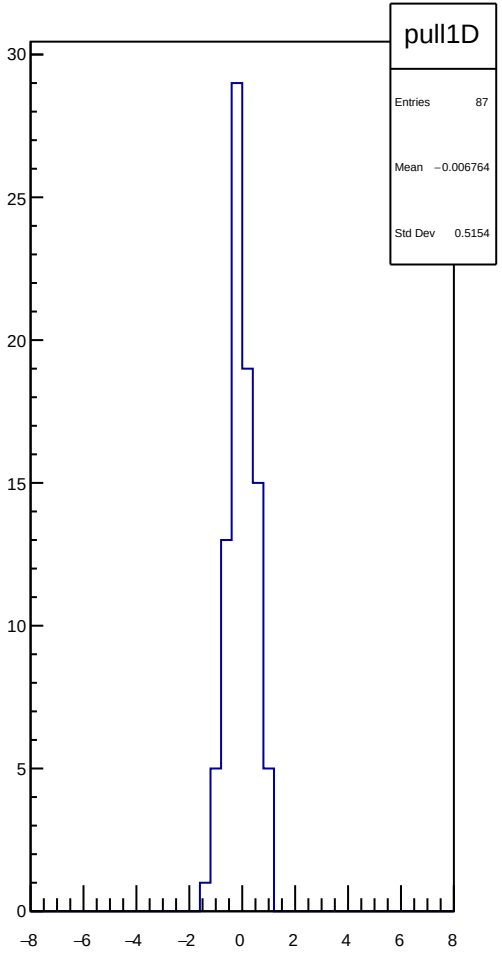

reg_asym_us_dd_at2lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 57.26 / 86
p0 50.04 ± 3.855
pull
Entries 87
Mean −135.3
Std Dev 0

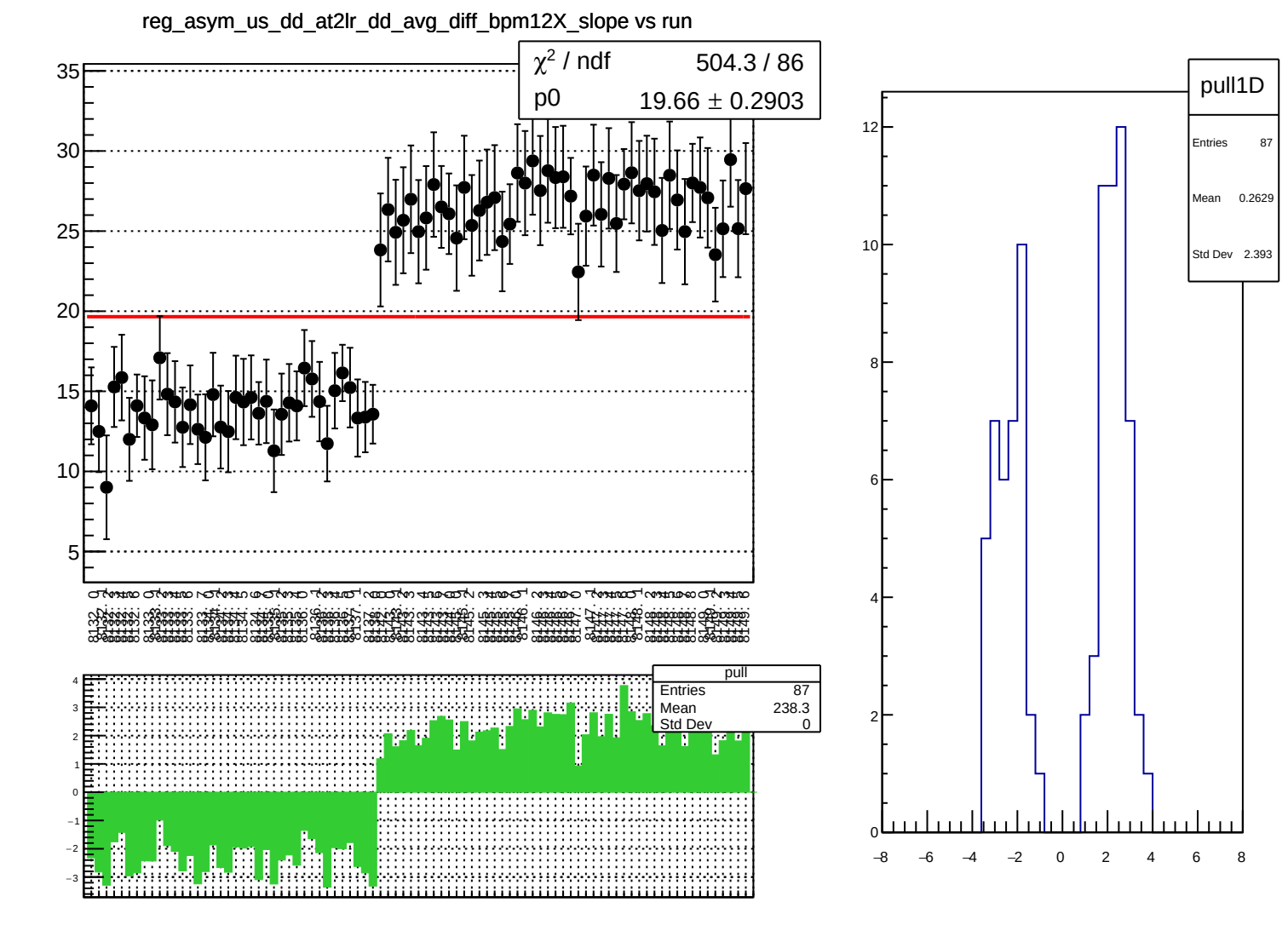

pull1D
Entries 87
Mean −0.07281
Std Dev 0.808

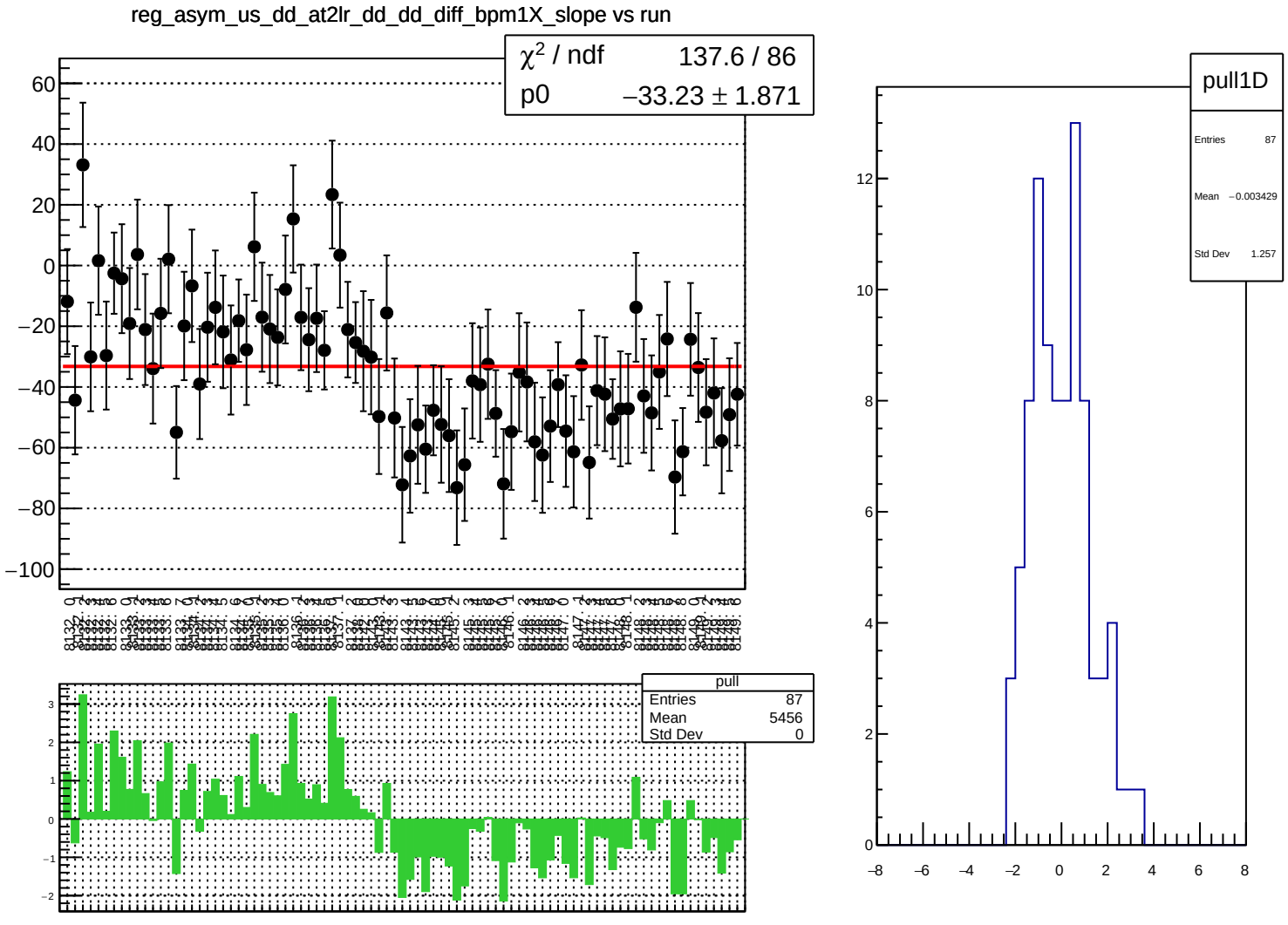

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 23.73 / 86
p0 −33.22 ± 6.757
150
100
50
0
−50
−100
−150
−200
pull
Entries 87
Mean −412
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 87
Mean 0.006052
Std Dev 0.5222
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

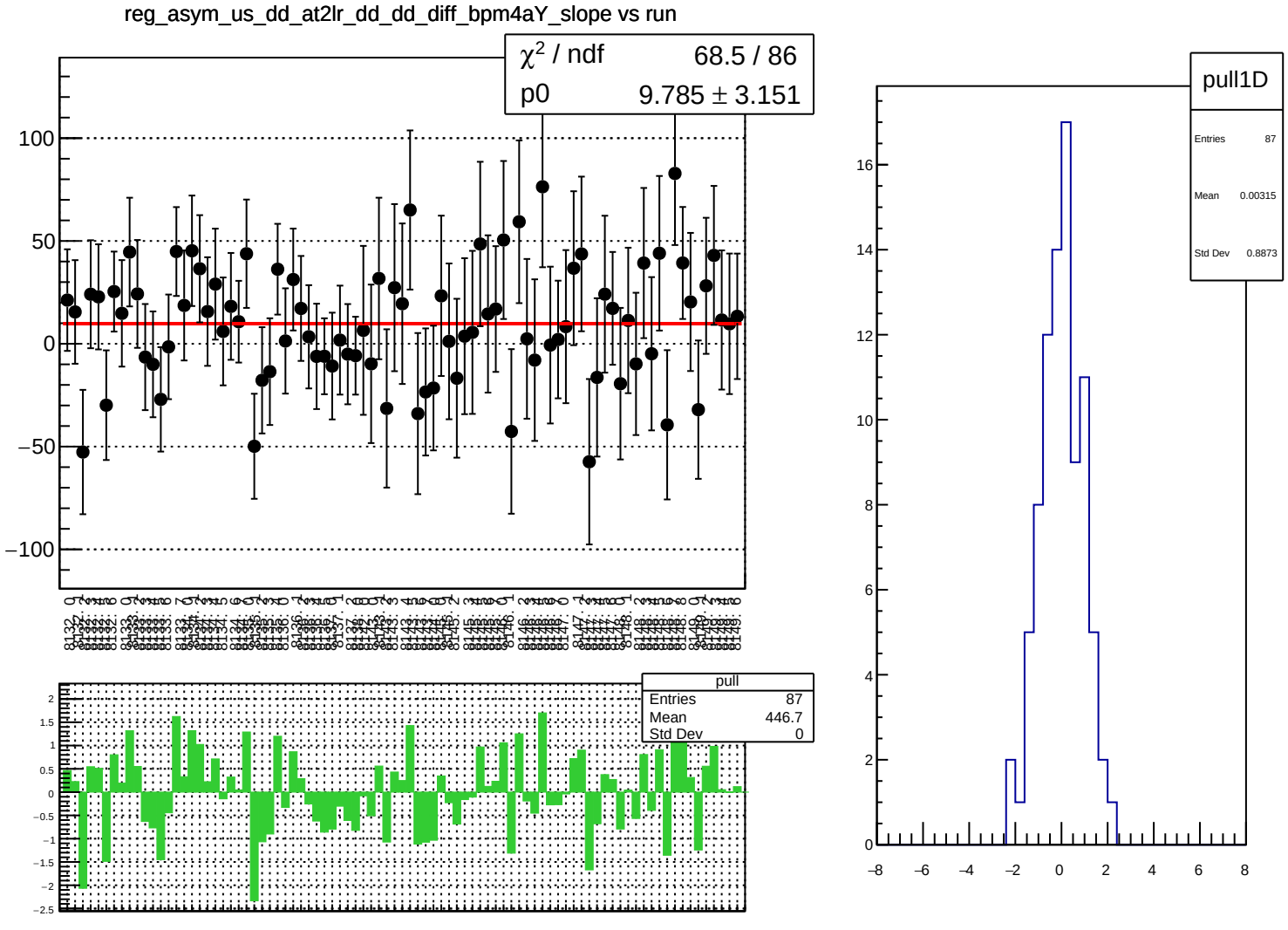

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 58.64 / 86
p0 −187.8 ± 3.81
pull
Entries 87
Mean −201.4
Std Dev 0
pull1D
Entries 87
Mean 0.05498
Std Dev 0.8191

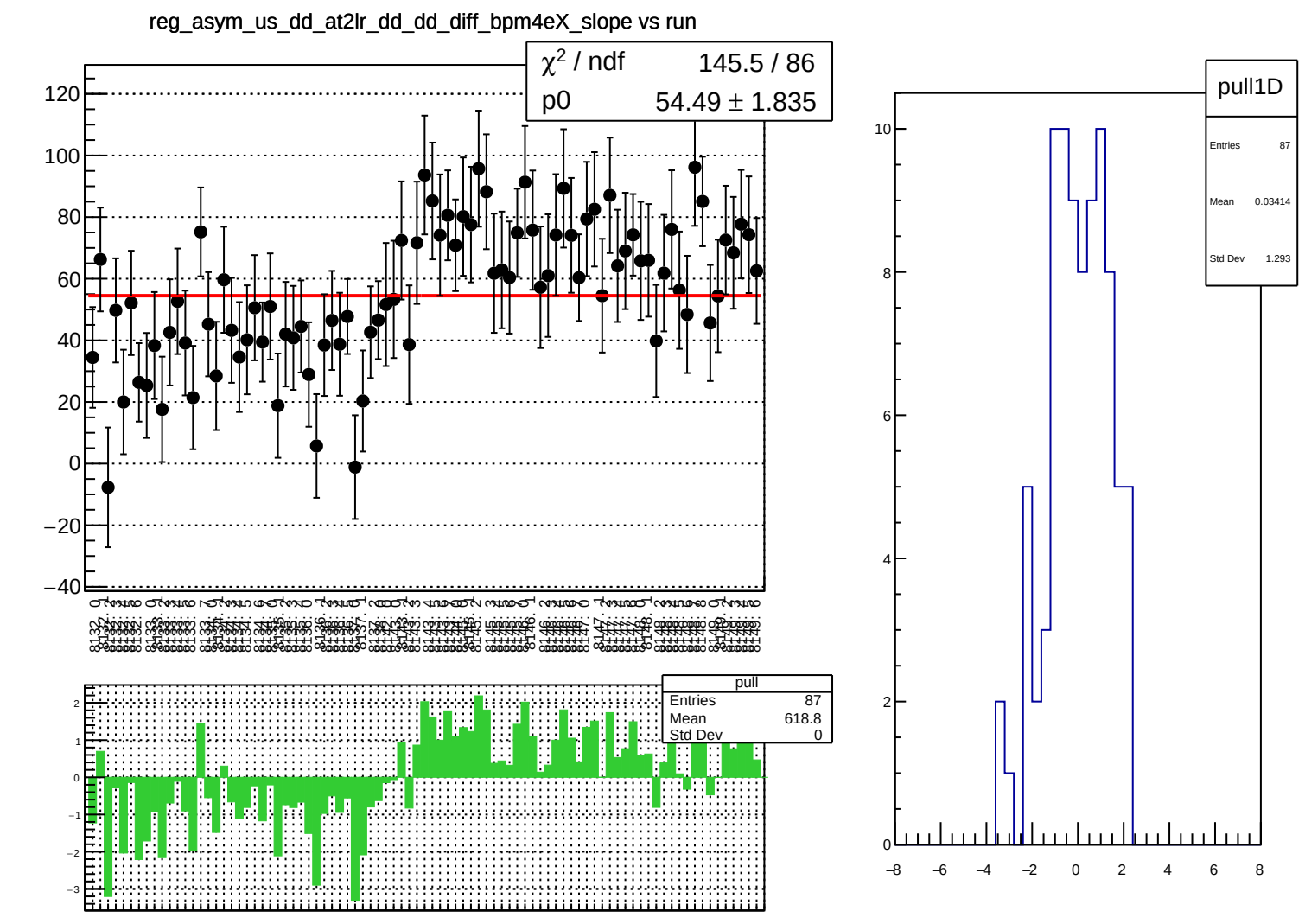

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 23.11 / 86
p0 32.02 ± 7.232
pull
Entries 87
Mean −303.7
Std Dev 0

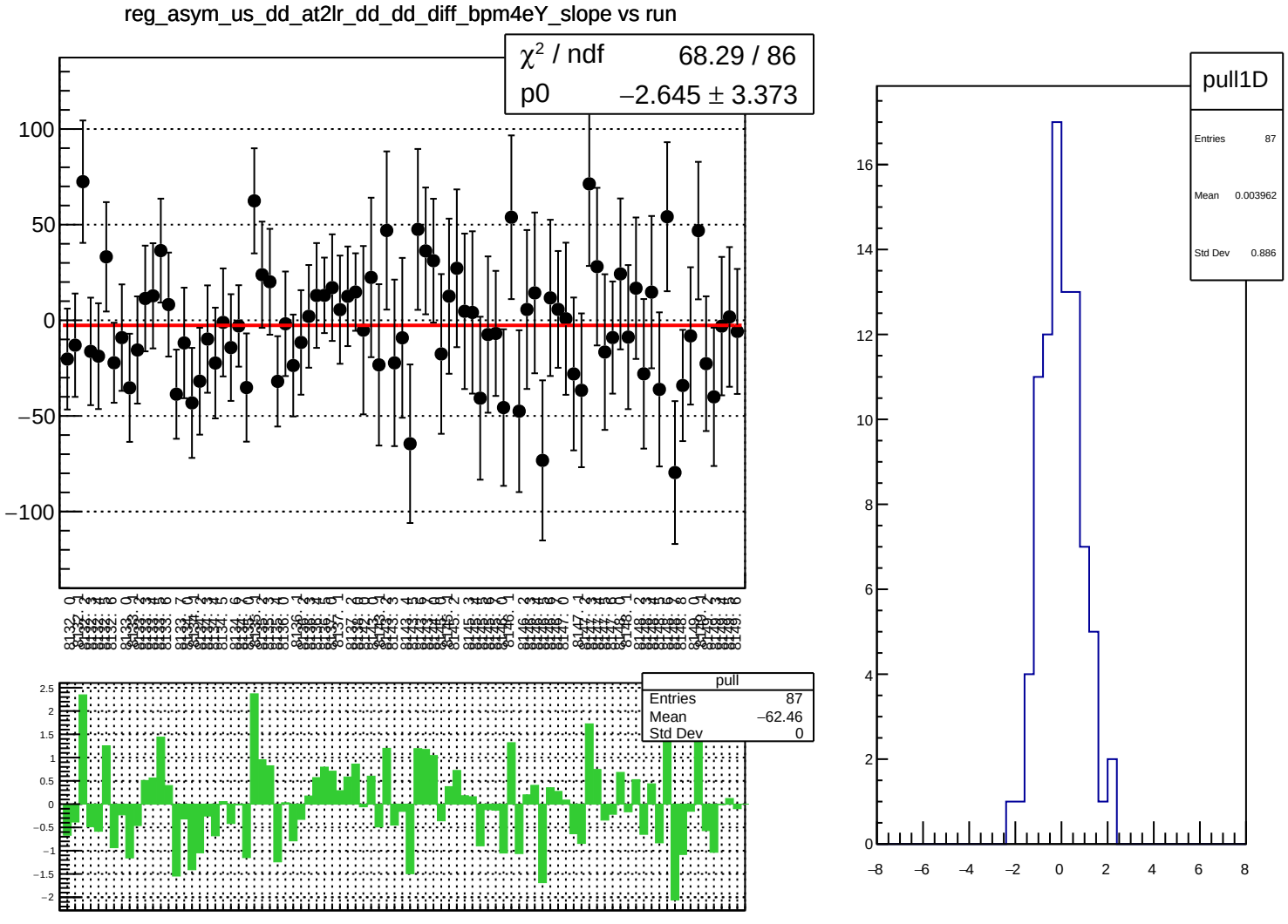

pull1D
Entries 87
Mean −0.006764
Std Dev 0.5154

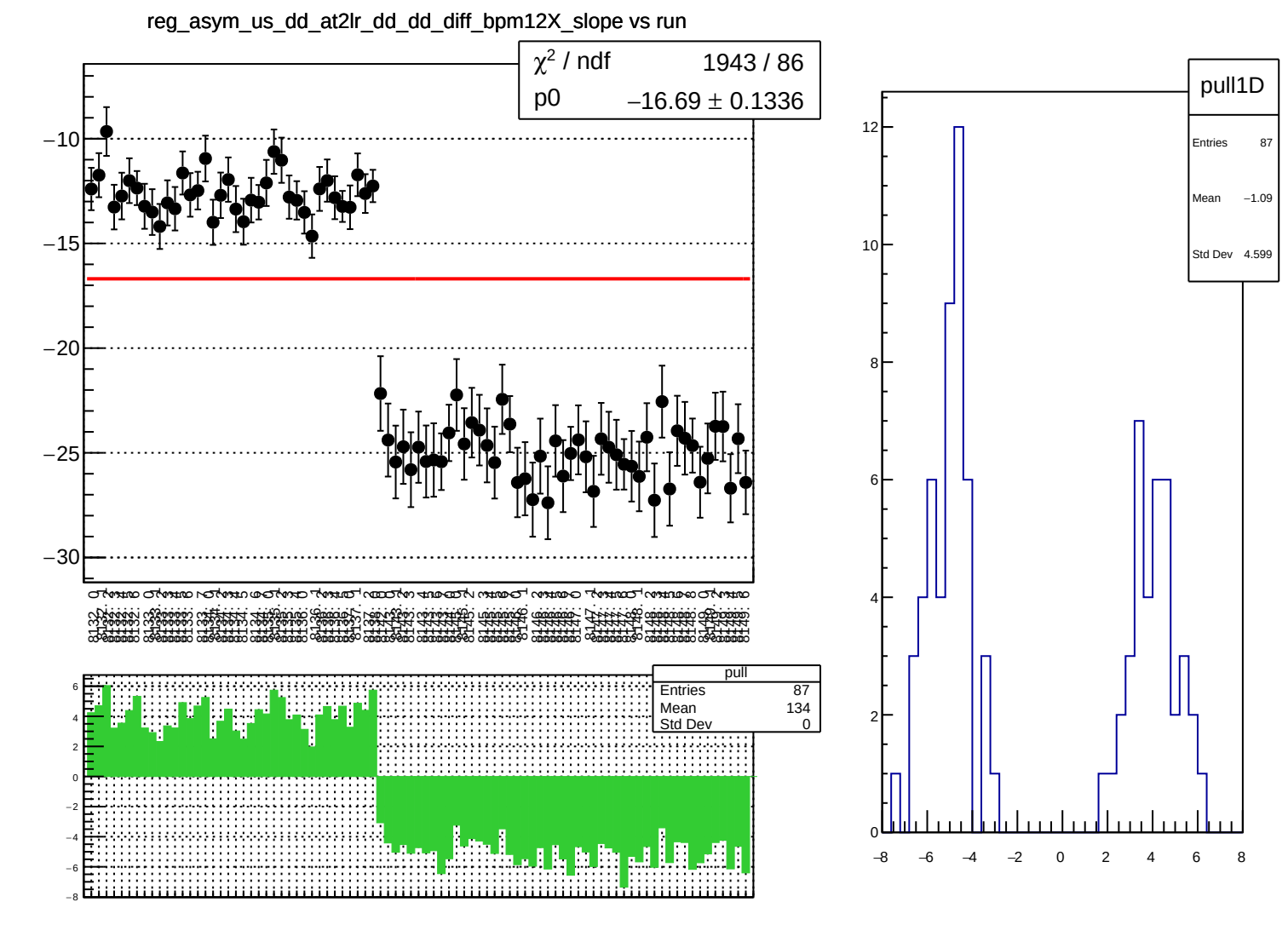

reg_asym_us_dd_at2lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 504.3 / 86
p0 19.66 ± 0.2903
pull
Entries 87
Mean 238.3
Std Dev 0
pull1D
Entries 87
Mean 0.2629
Std Dev 2.393

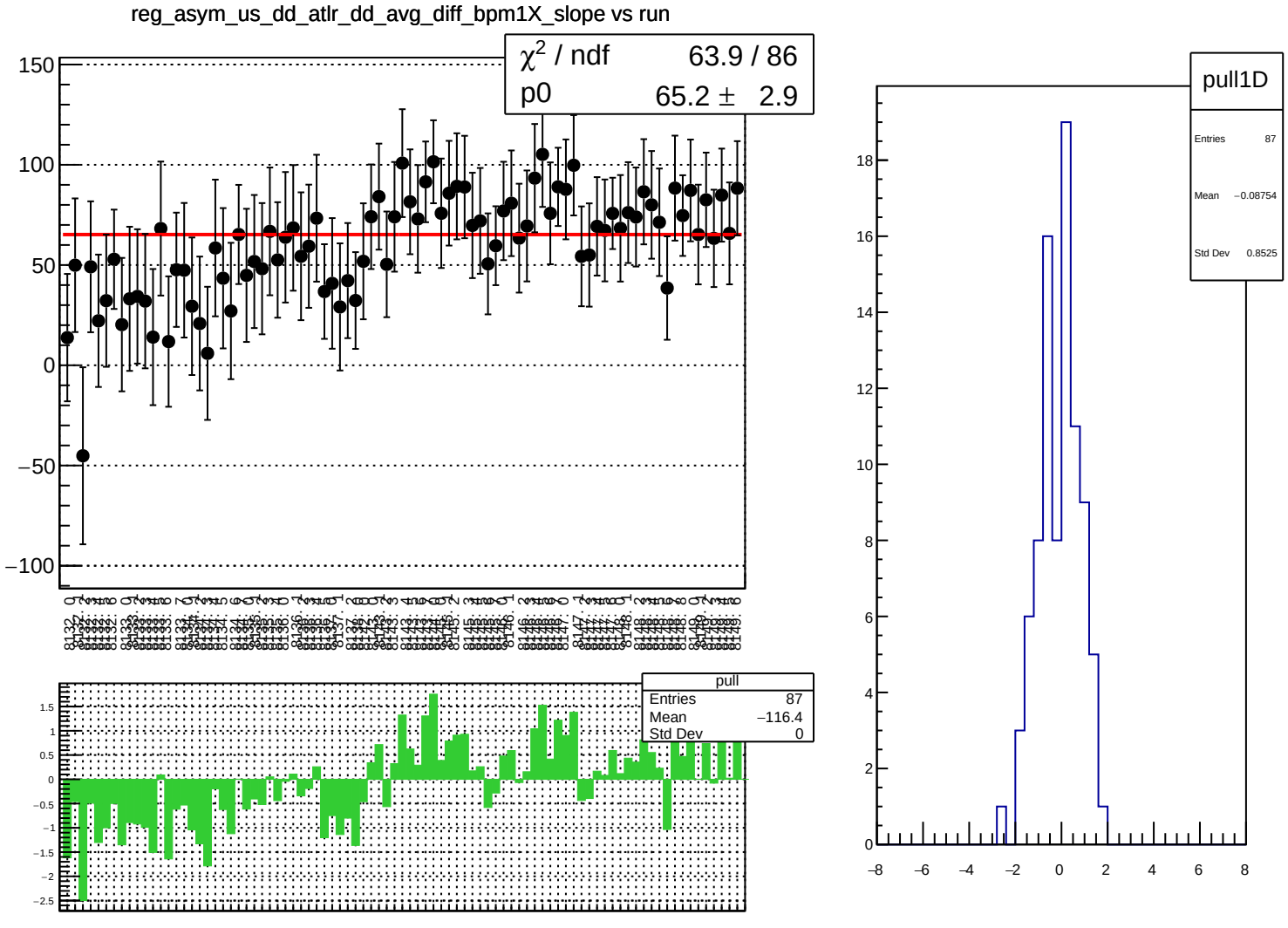

reg_asym_us_dd_at2lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 137.6 / 86
p0 −33.23 ± 1.871
pull
Entries 87
Mean 5456
Std Dev 0
pull1D
Entries 87
Mean −0.003429
Std Dev 1.257

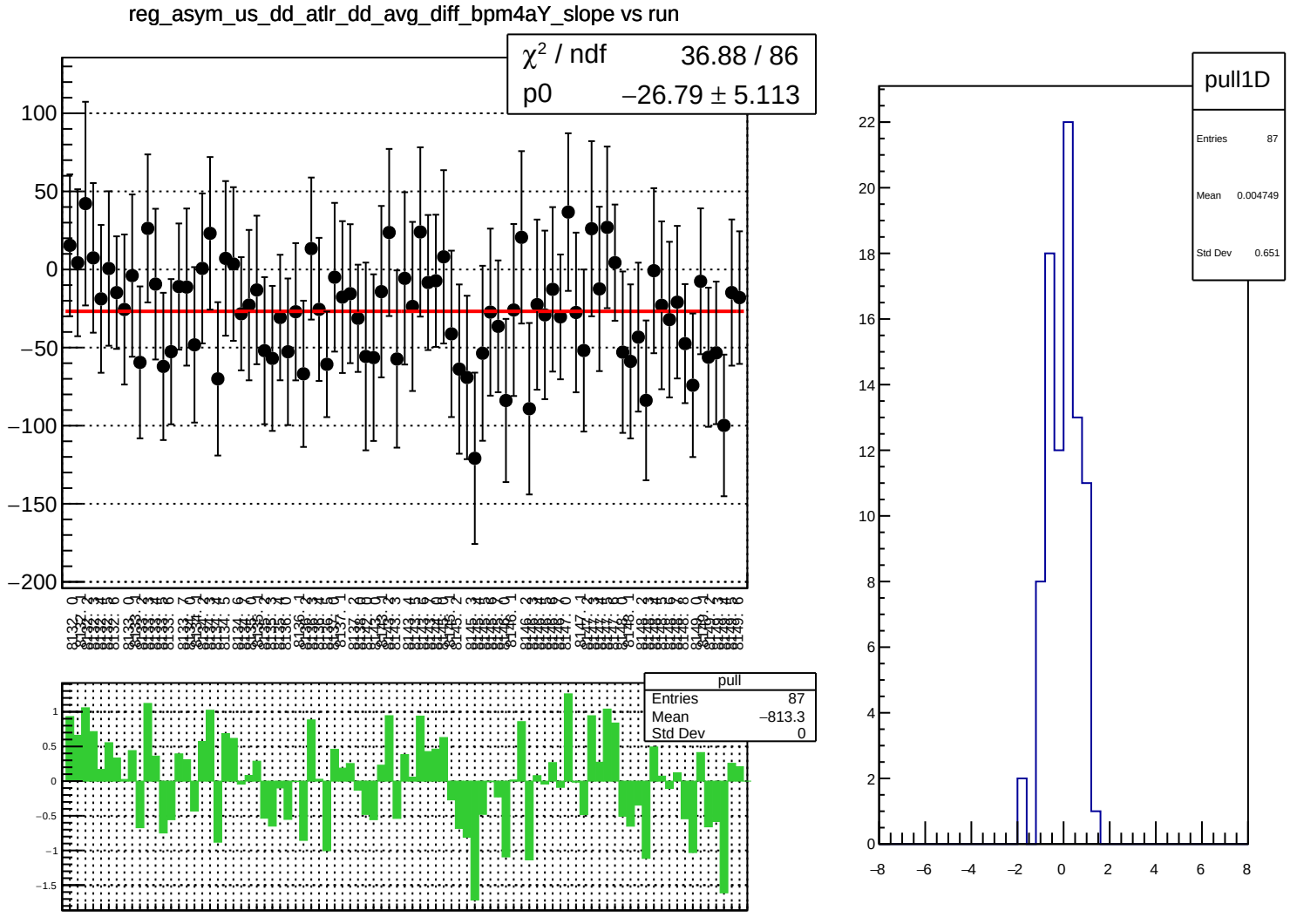

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 68.5 / 86
p0 9.785 ± 3.151
pull
Entries 87
Mean 446.7
Std Dev 0
pull1D
Entries 87
Mean 0.00315
Std Dev 0.8873

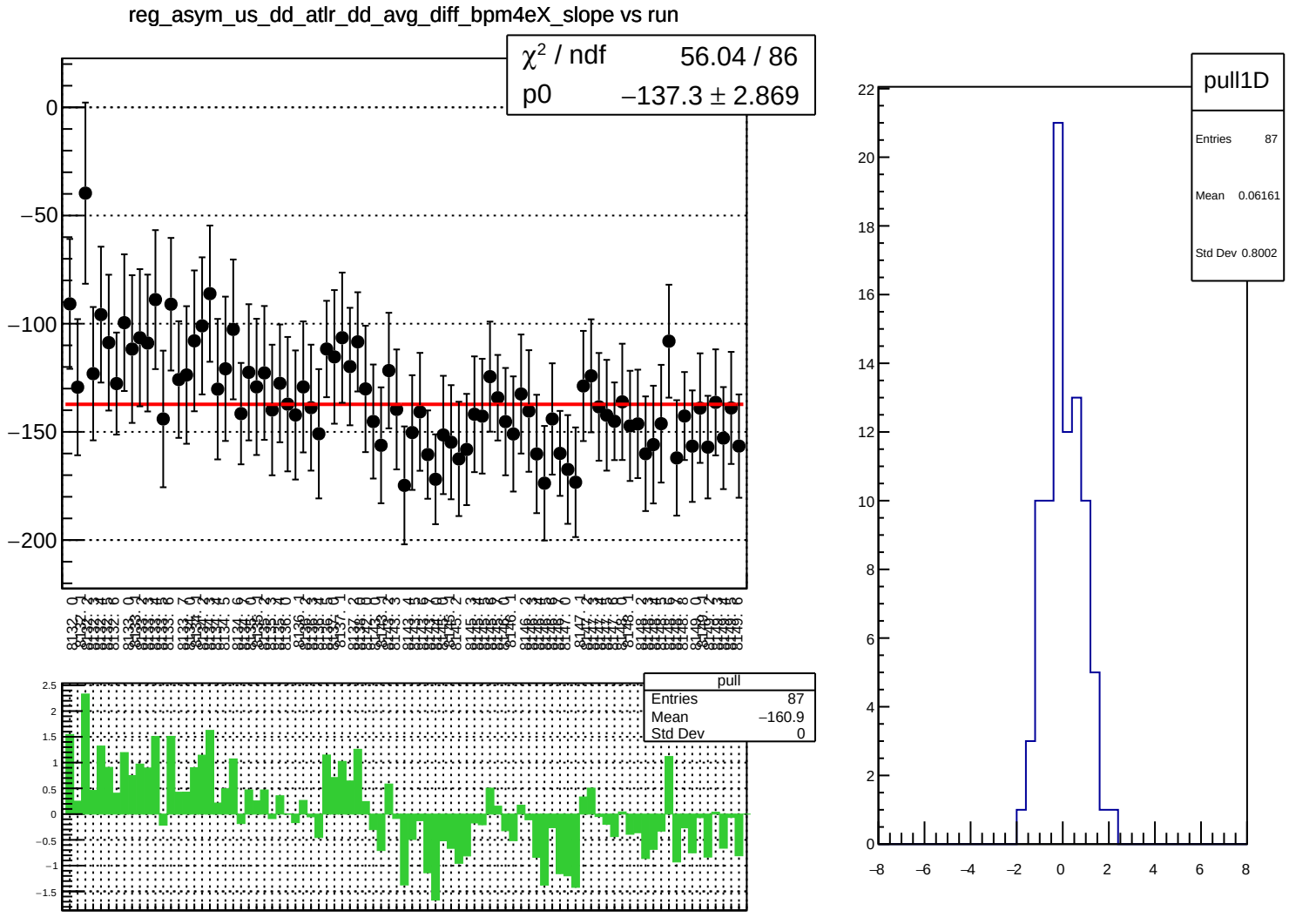

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 145.5 / 86
p0 54.49 ± 1.835
pull
Entries 87
Mean 618.8
Std Dev 0
pull1D
Entries 87
Mean 0.03414
Std Dev 1.293

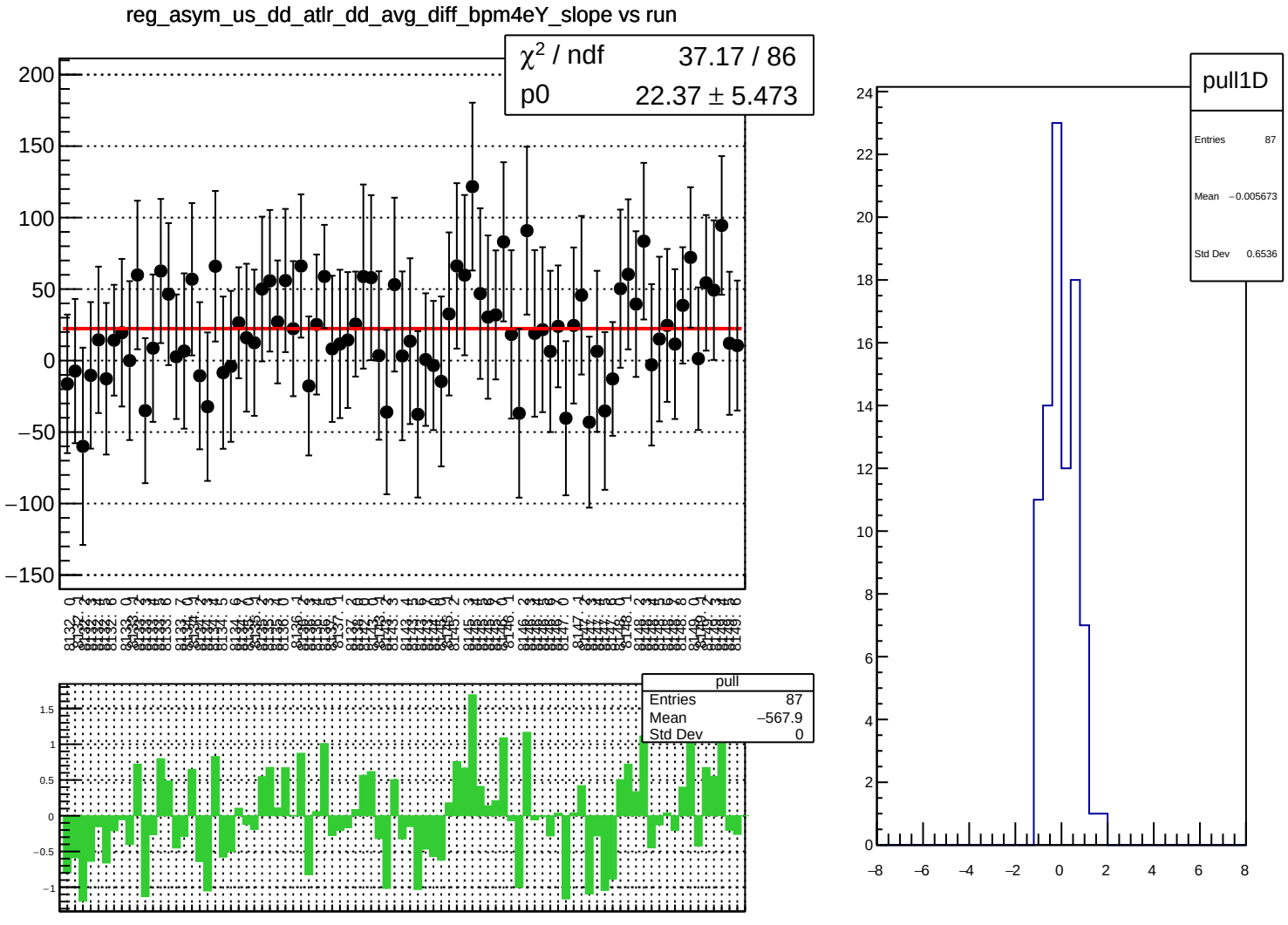

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 68.29 / 86
p0 −2.645 ± 3.373
pull
Entries 87
Mean −62.46
Std Dev 0
pull1D
Entries 87
Mean 0.003962
Std Dev 0.886

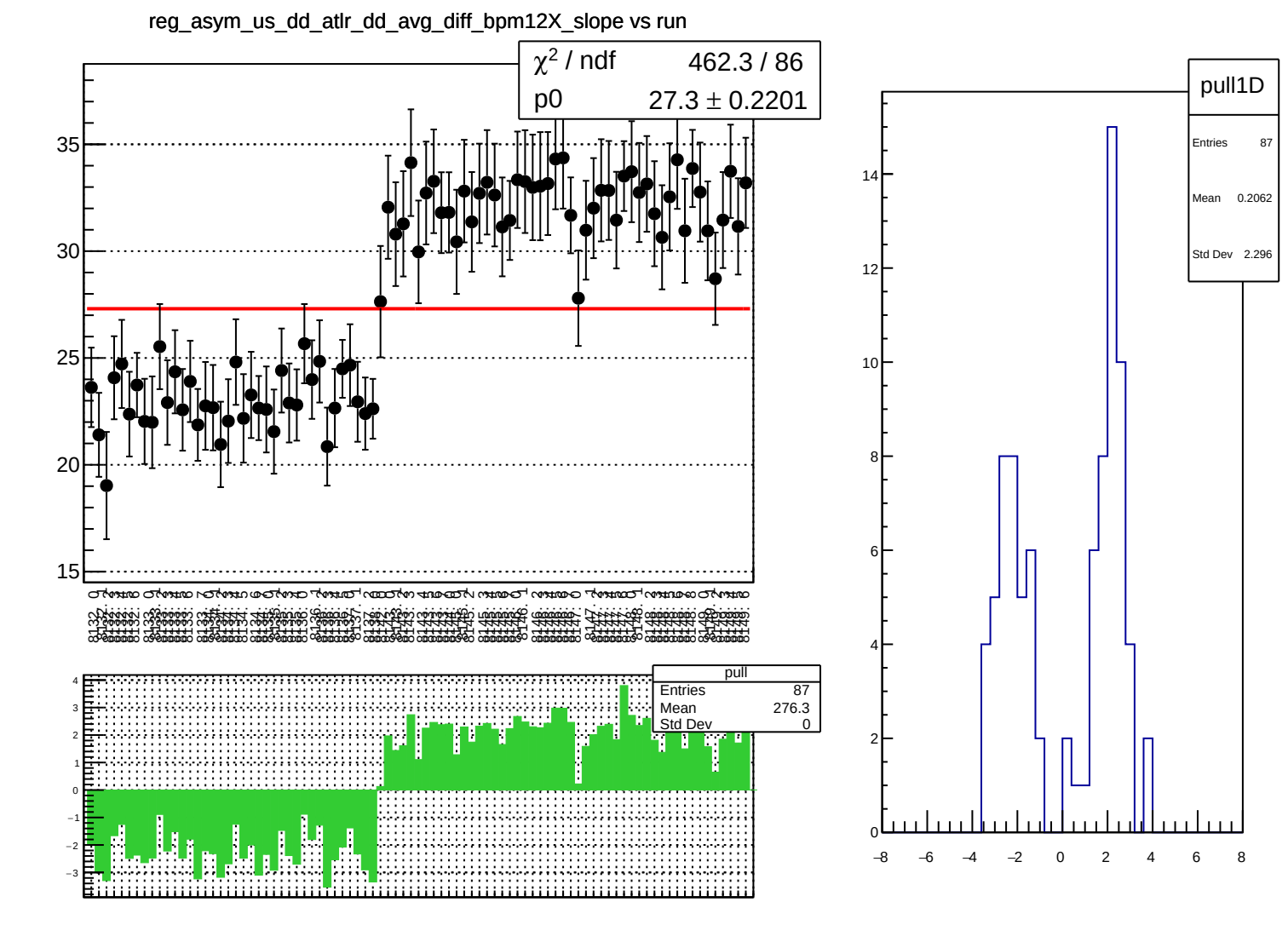

reg_asym_us_dd_at2lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 1943 / 86
p0 −16.69 ± 0.1336
pull
Entries 87
Mean 134
Std Dev 0
pull1D
Entries 87
Mean −1.09
Std Dev 4.599

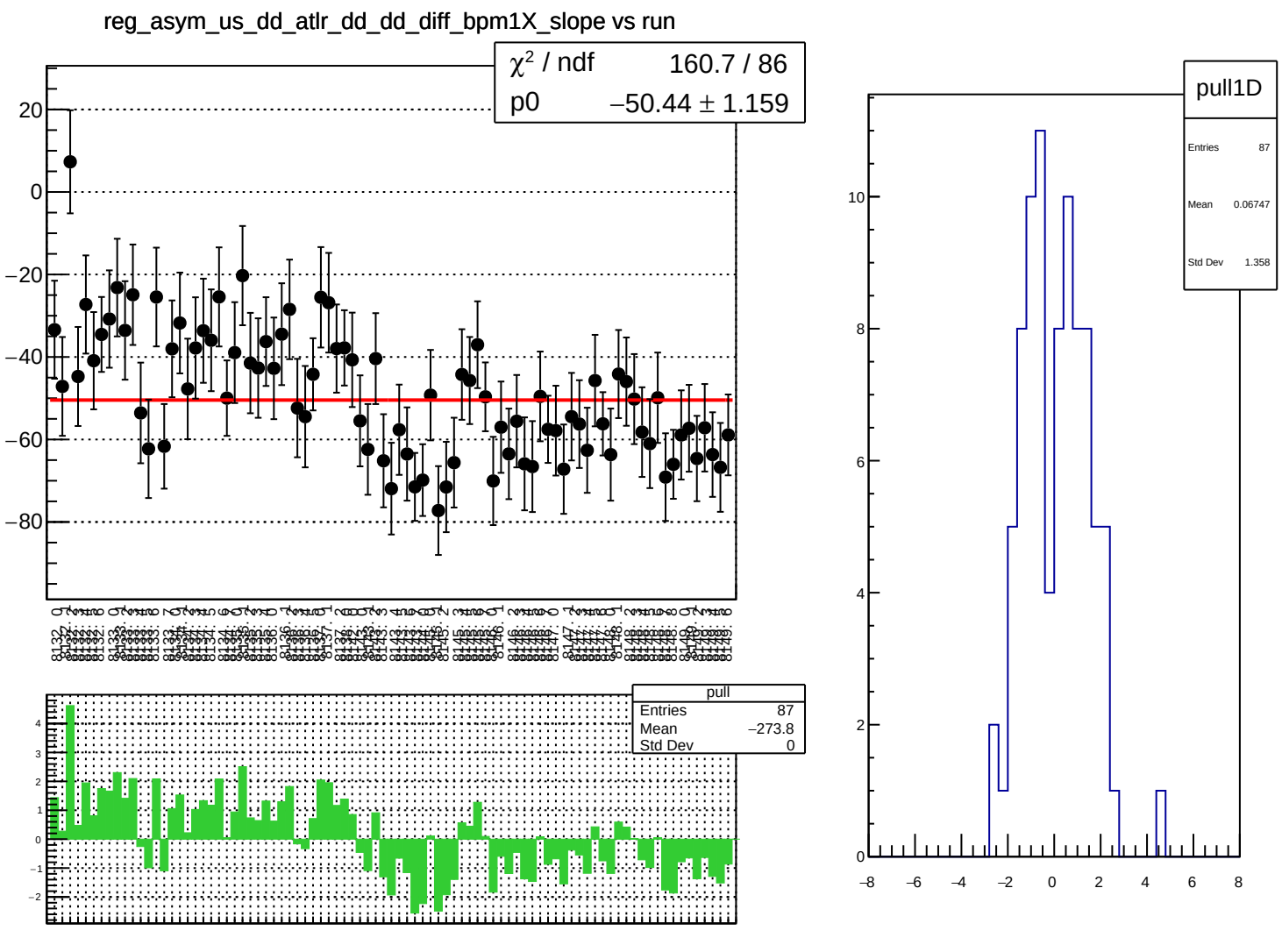

reg_asym_us_dd_atlr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 63.9 / 86
p0 65.2 ± 2.9
150
100
50
0
−50
−100
pull
Entries 87
Mean −116.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 87
Mean −0.08754
Std Dev 0.8525
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

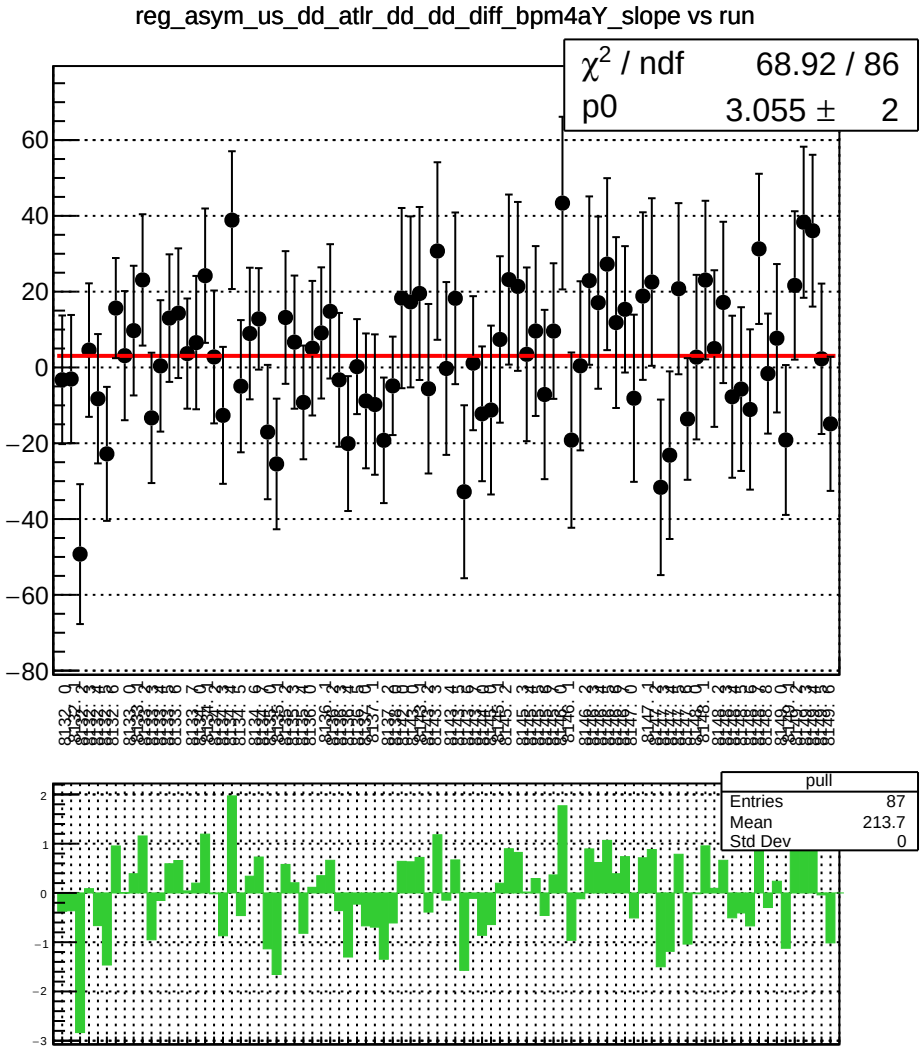

reg_asym_us_dd_atlr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 36.88 / 86
p0 −26.79 ± 5.113
pull
Entries 87
Mean −813.3
Std Dev 0
pull1D
Entries 87
Mean 0.004749
Std Dev 0.651

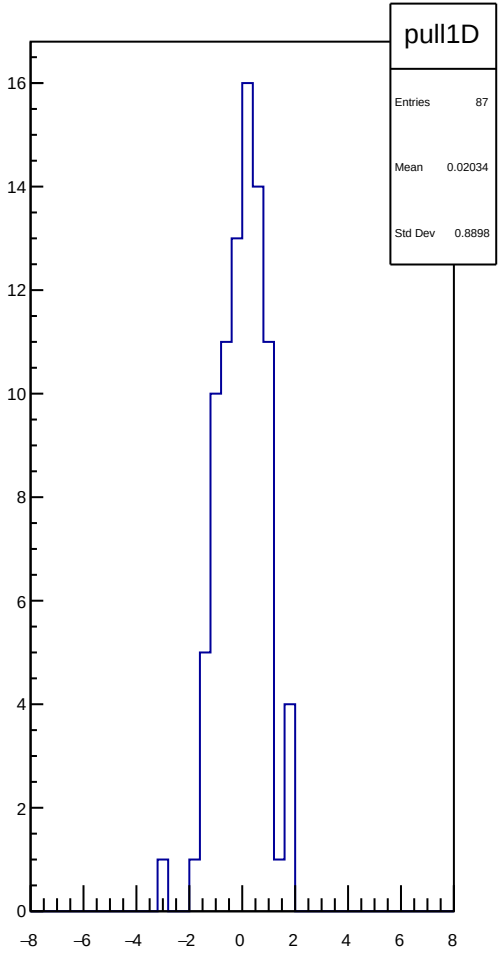

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 56.04 / 86
p0 −137.3 ± 2.869
0
−50
−100
−150
−200
pull
Entries 87
Mean −160.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 87
Mean 0.06161
Std Dev 0.8002
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

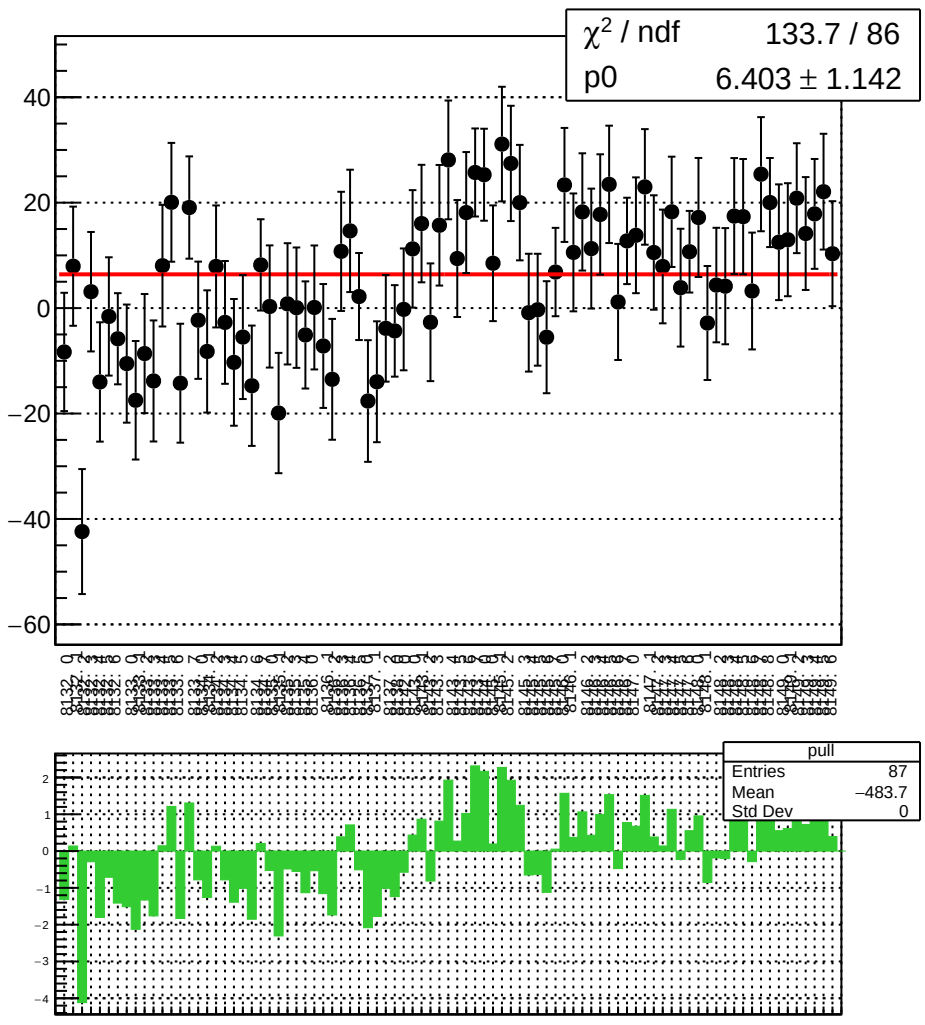

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 37.17 / 86
p0 22.37 ± 5.473
pull
Entries 87
Mean −567.9
Std Dev 0
pull1D
Entries 87
Mean −0.005673
Std Dev 0.6536

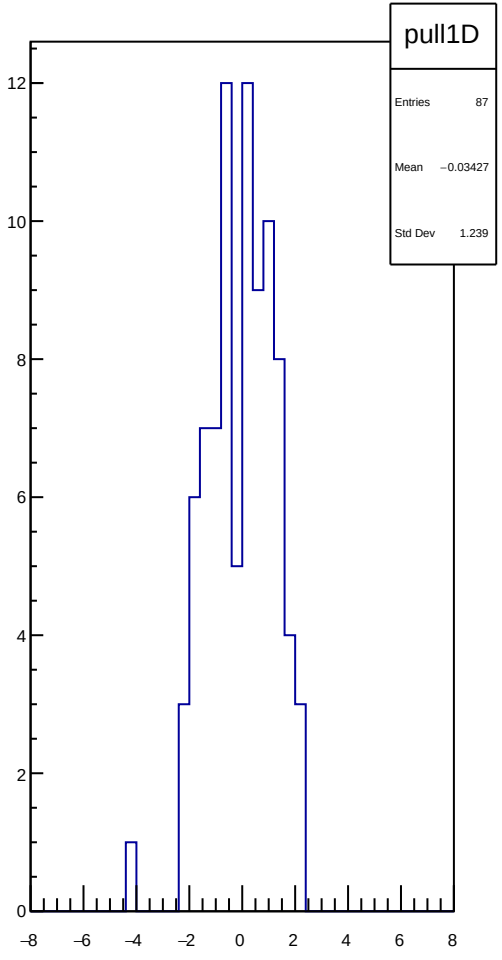

reg_asym_us_dd_atlr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 462.3 / 86
p0 27.3 ± 0.2201
pull
Entries 87
Mean 276.3
Std Dev 0
pull1D
Entries 87
Mean 0.2062
Std Dev 2.296

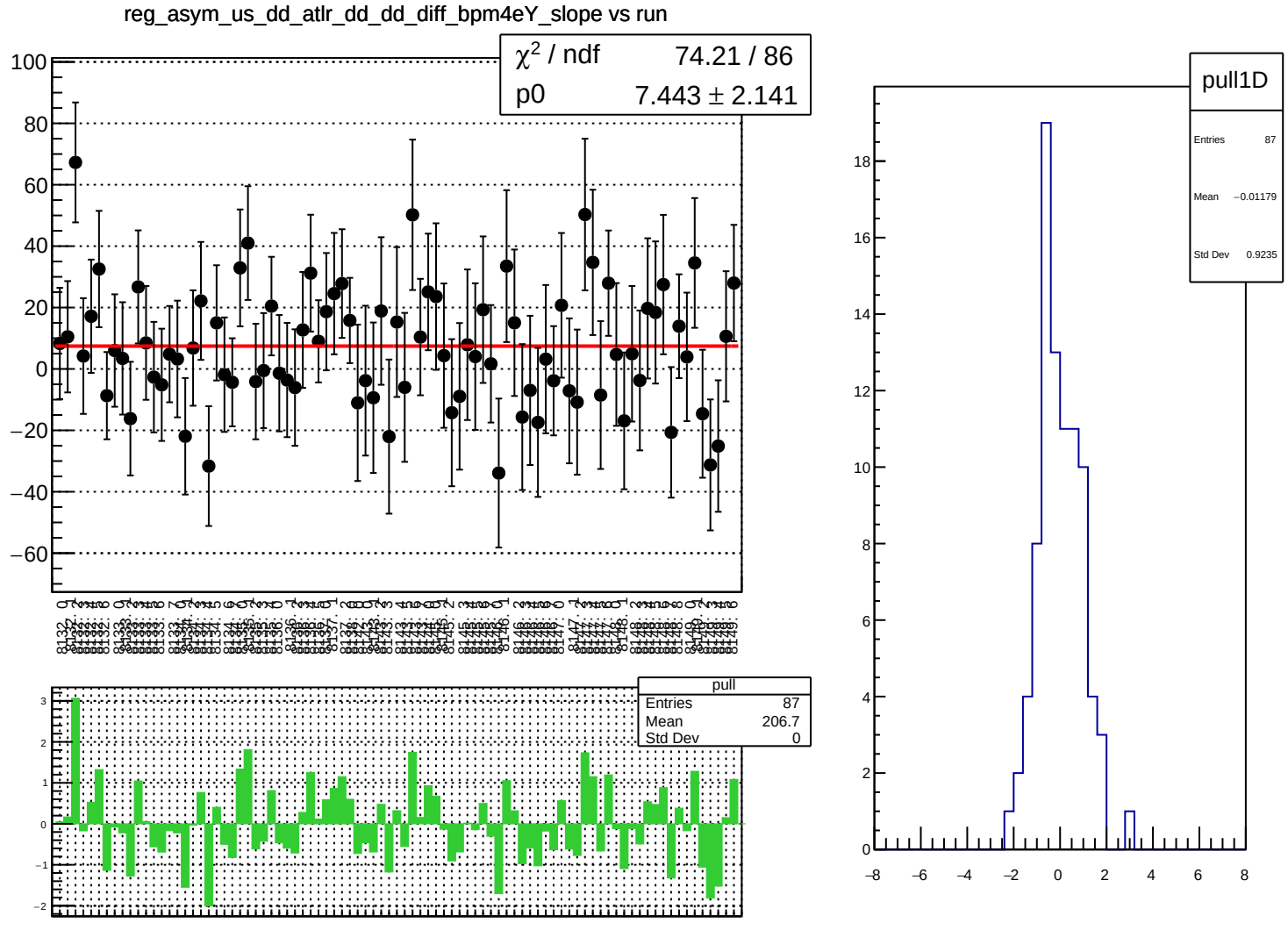

reg_asym_us_dd_atlr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 160.7 / 86
p0 −50.44 ± 1.159
pull
Entries 87
Mean −273.8
Std Dev 0
pull1D
Entries 87
Mean 0.06747
Std Dev 1.358

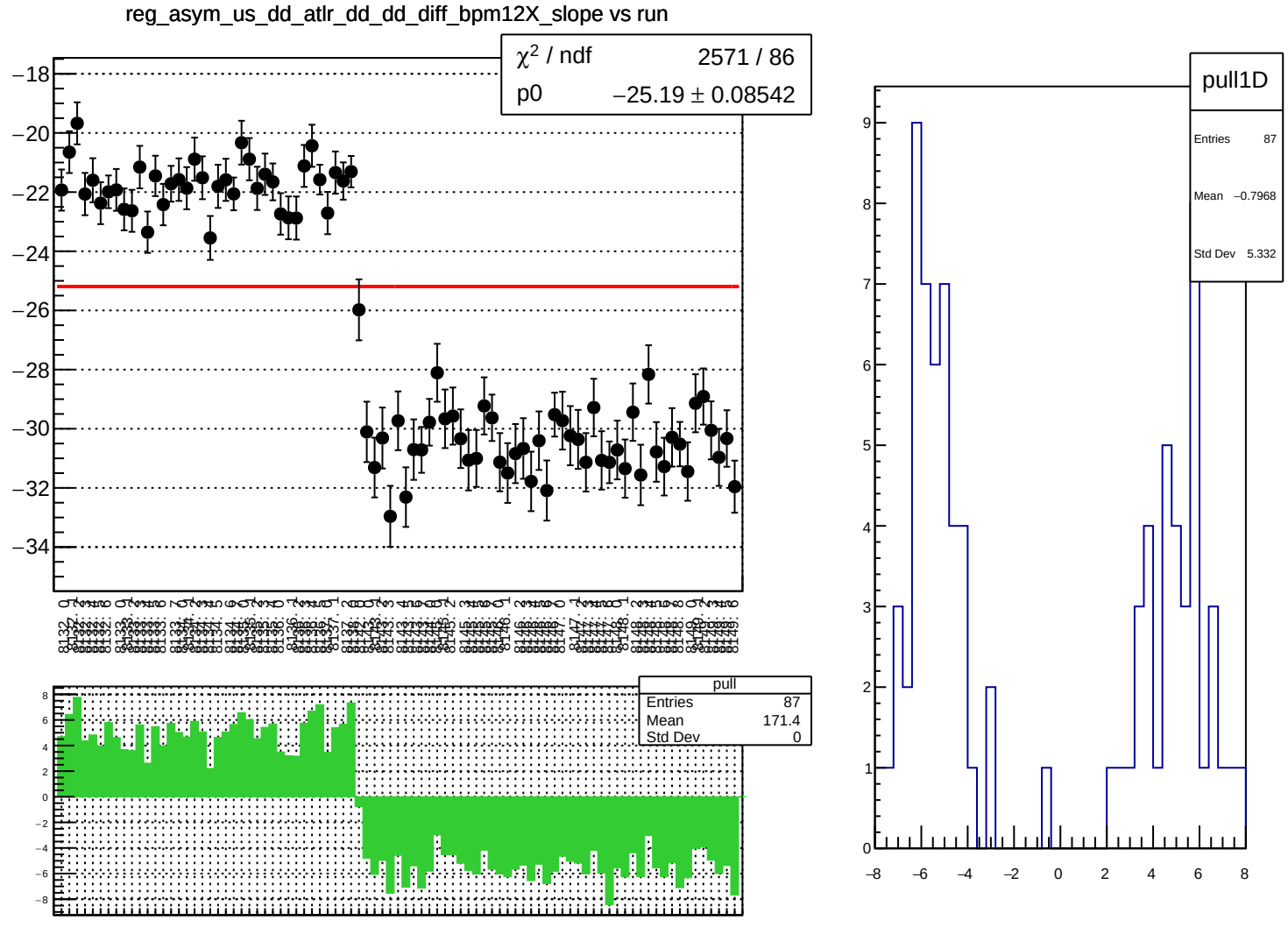

reg_asym_us_dd_atlr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 68.92 / 86
p0 3.055 ± 2
pull
Entries 87
Mean 213.7
Std Dev 0

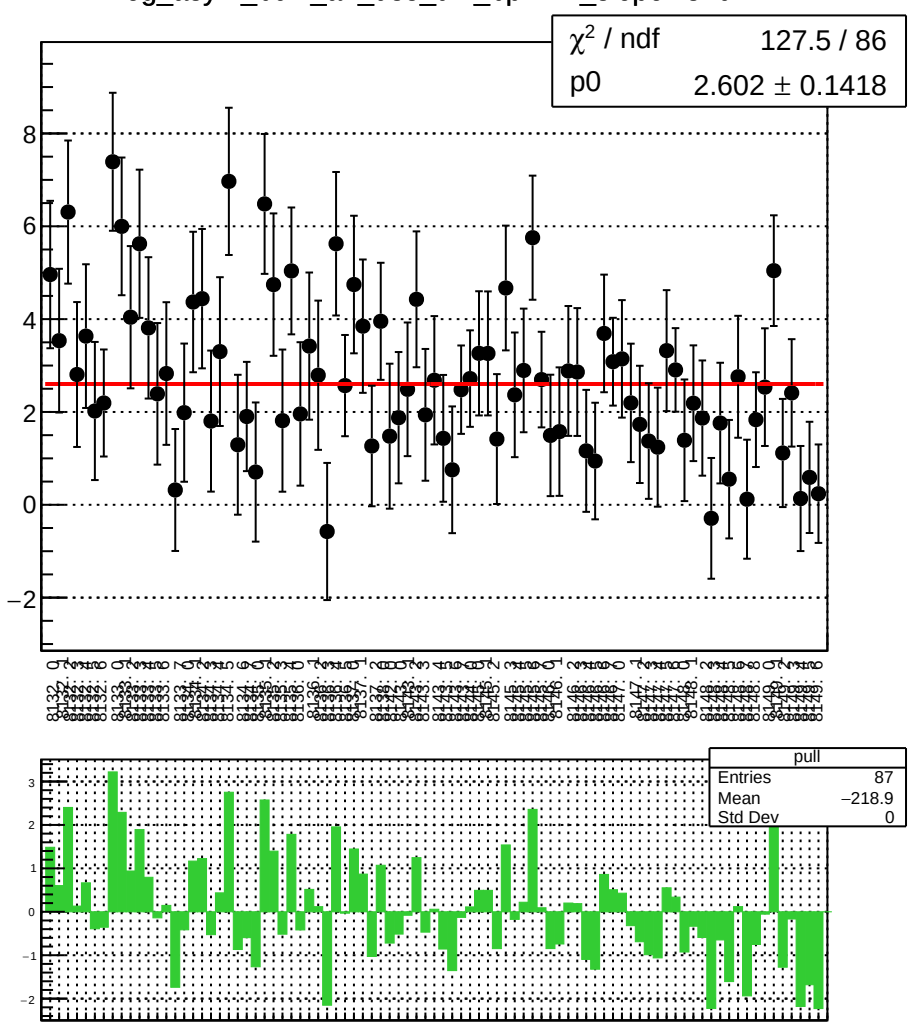

pull1D
Entries 87
Mean 0.02034
Std Dev 0.8898

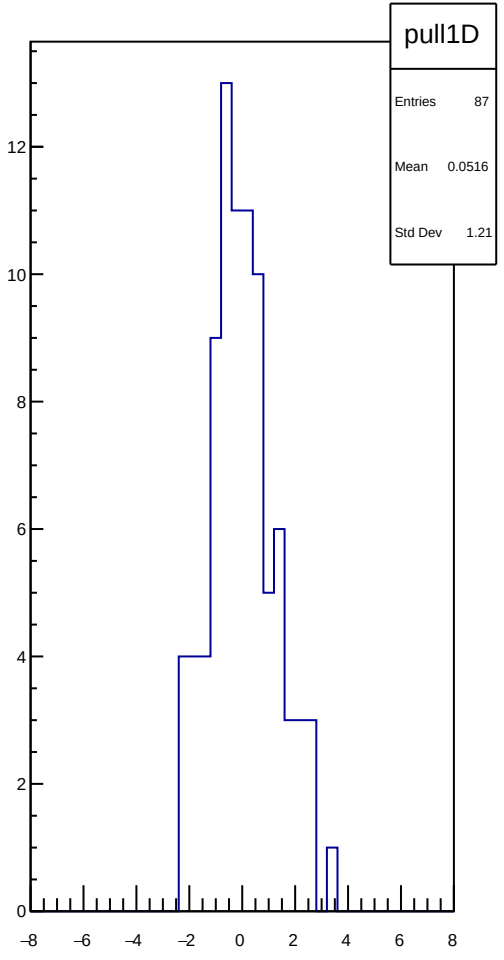

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 133.7 / 86
p0 6.403 ± 1.142
pull
Entries 87
Mean −483.7
Std Dev 0

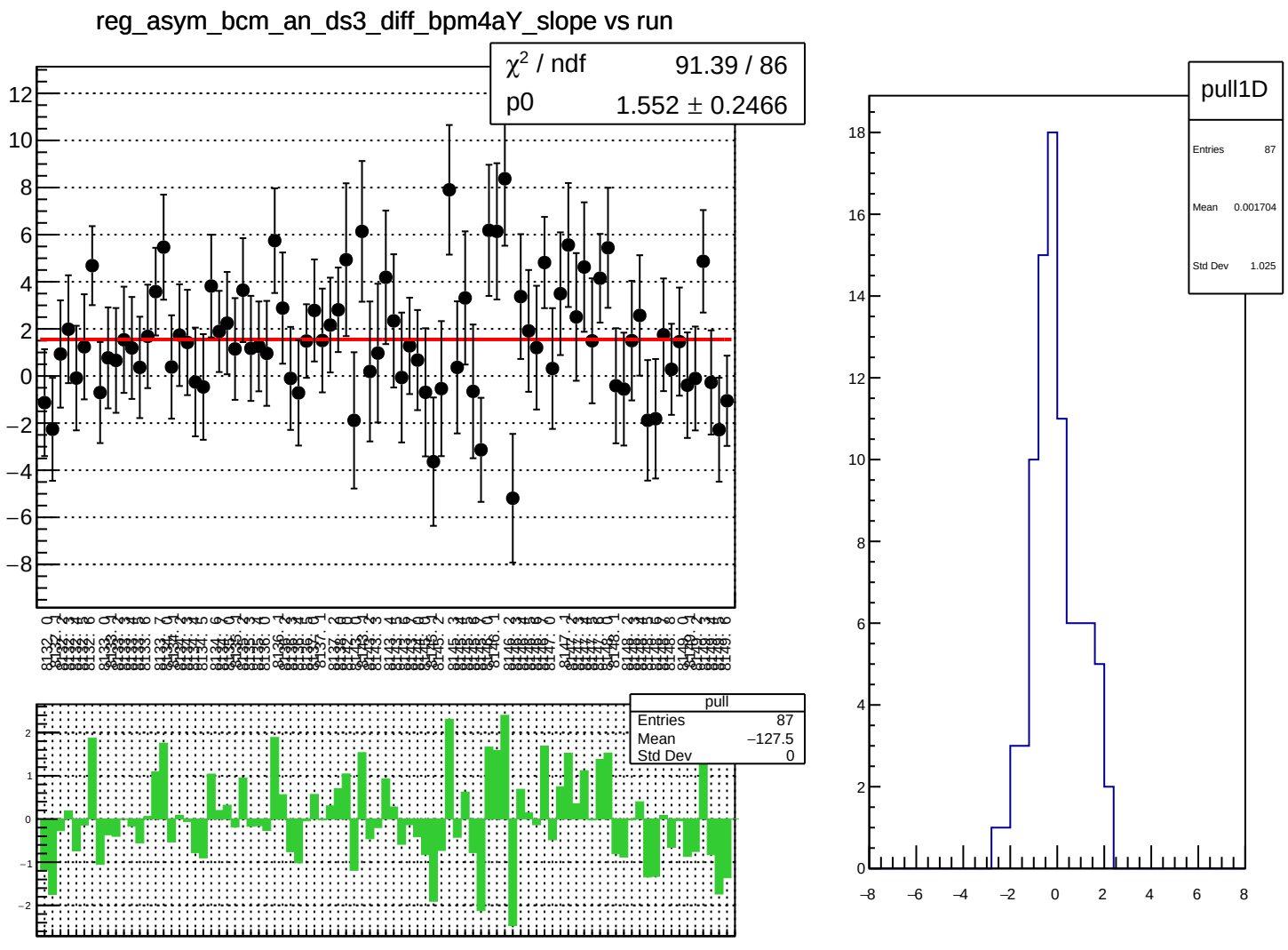

pull1D
Entries 87
Mean −0.03427
Std Dev 1.239

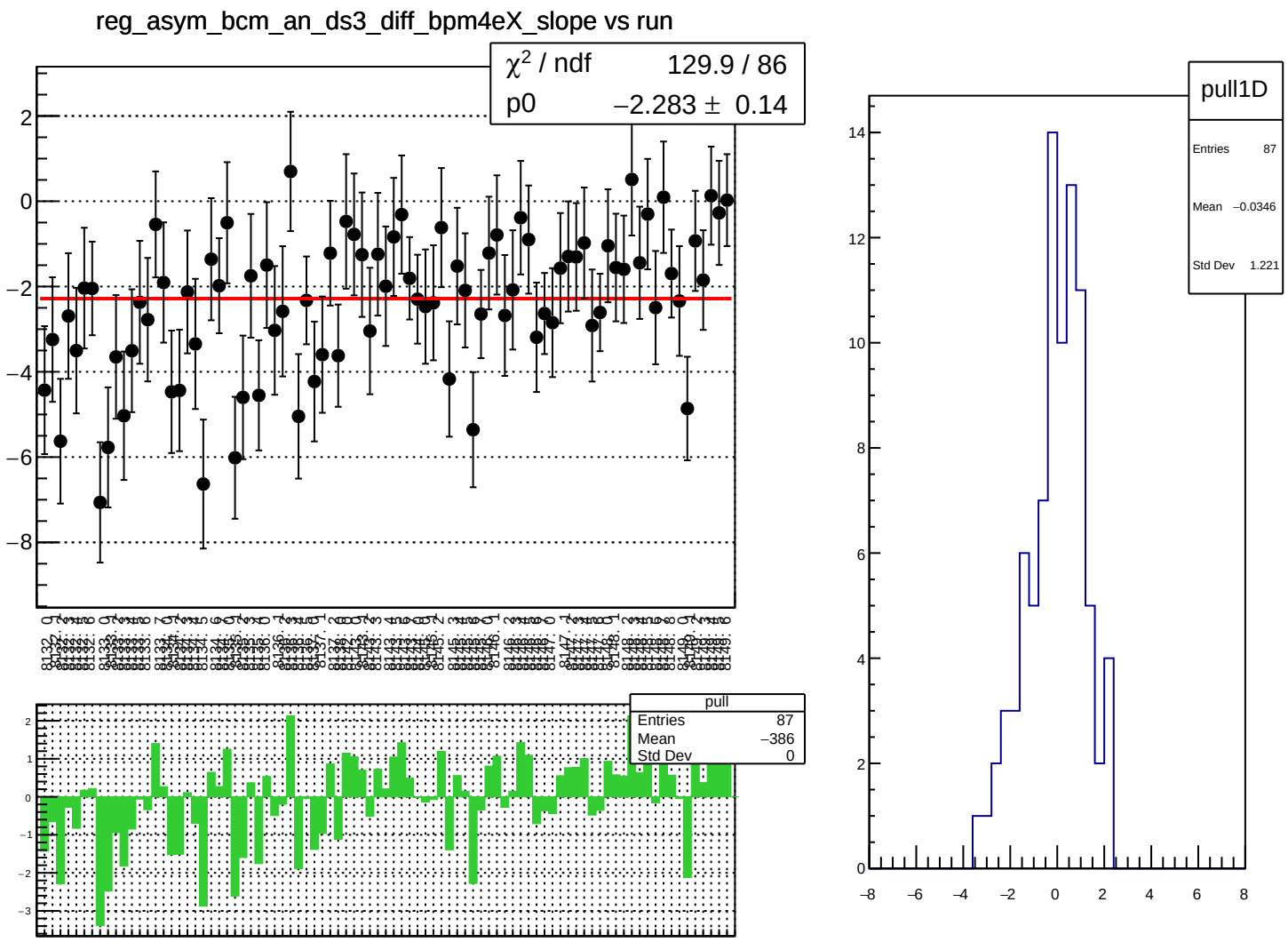

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 74.21 / 86
p0 7.443 ± 2.141
pull
Entries 87
Mean 206.7
Std Dev 0
pull1D
Entries 87
Mean −0.01179
Std Dev 0.9235

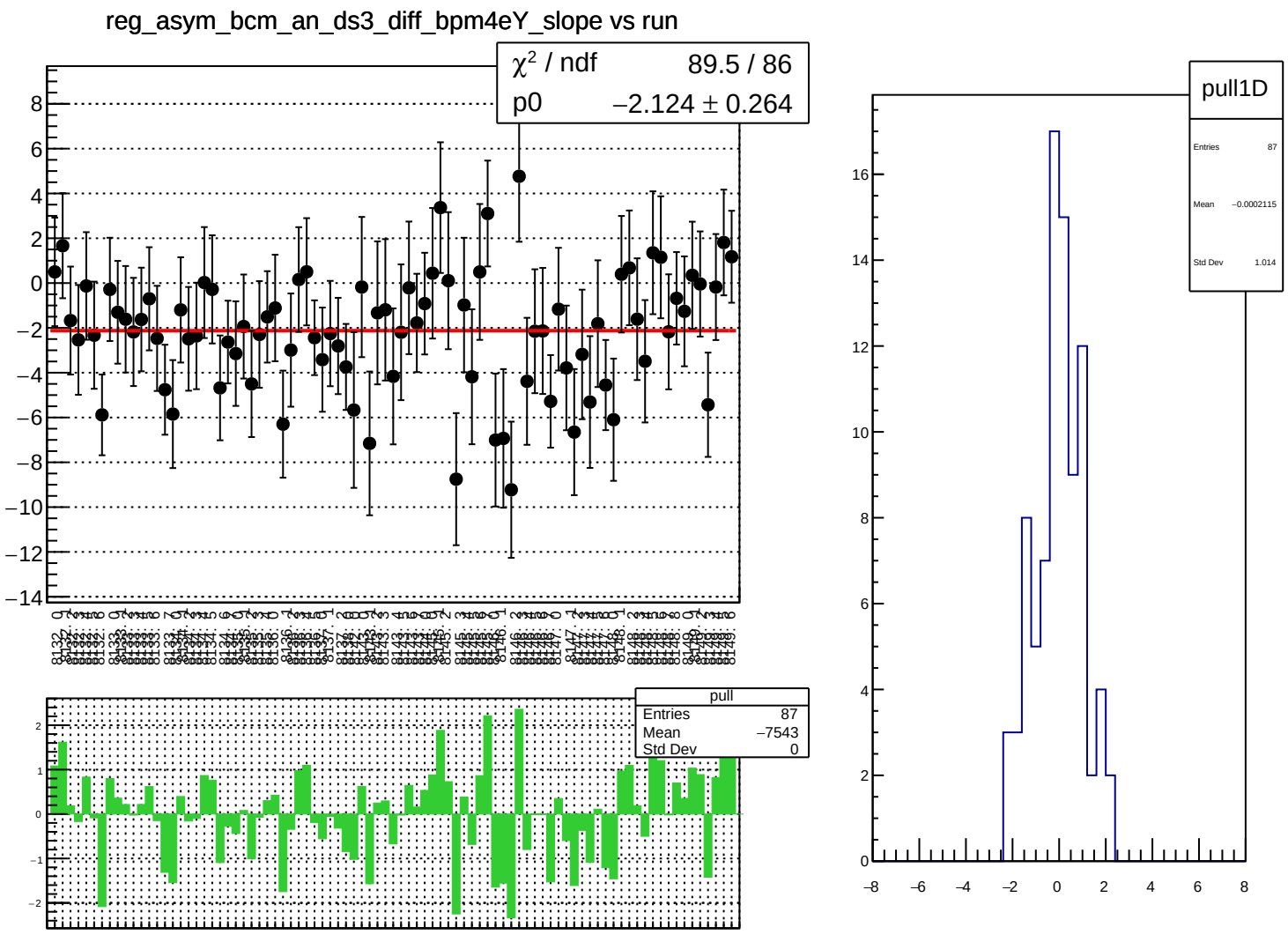

reg_asym_us_dd_atlr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 2571 / 86
p0 −25.19 ± 0.08542
pull
Entries 87
Mean 171.4
Std Dev 0
pull1D
Entries 87
Mean −0.7968
Std Dev 5.332

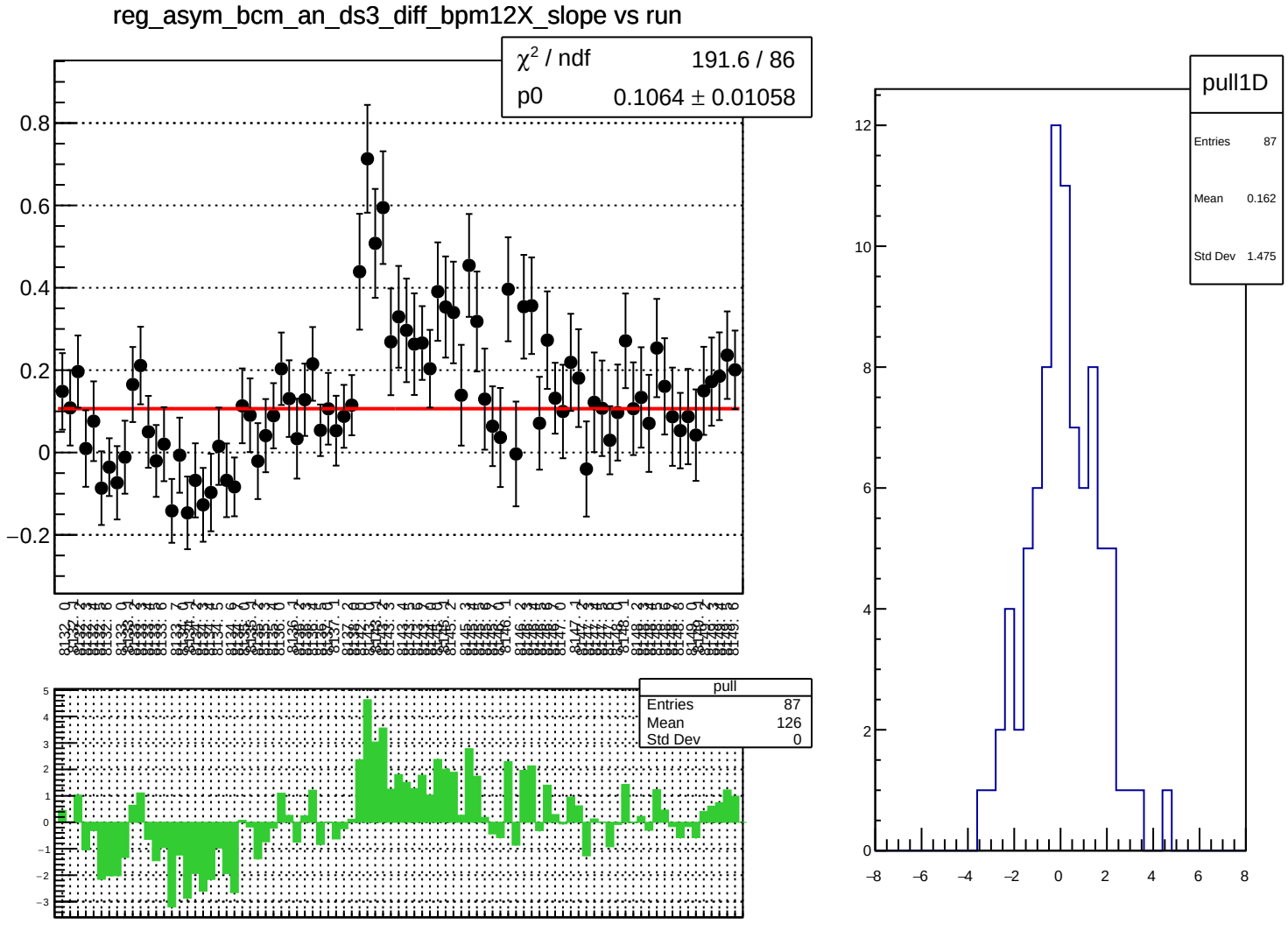

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 127.5 / 86
p0 2.602 ± 0.1418
pull
Entries 87
Mean −218.9
Std Dev 0

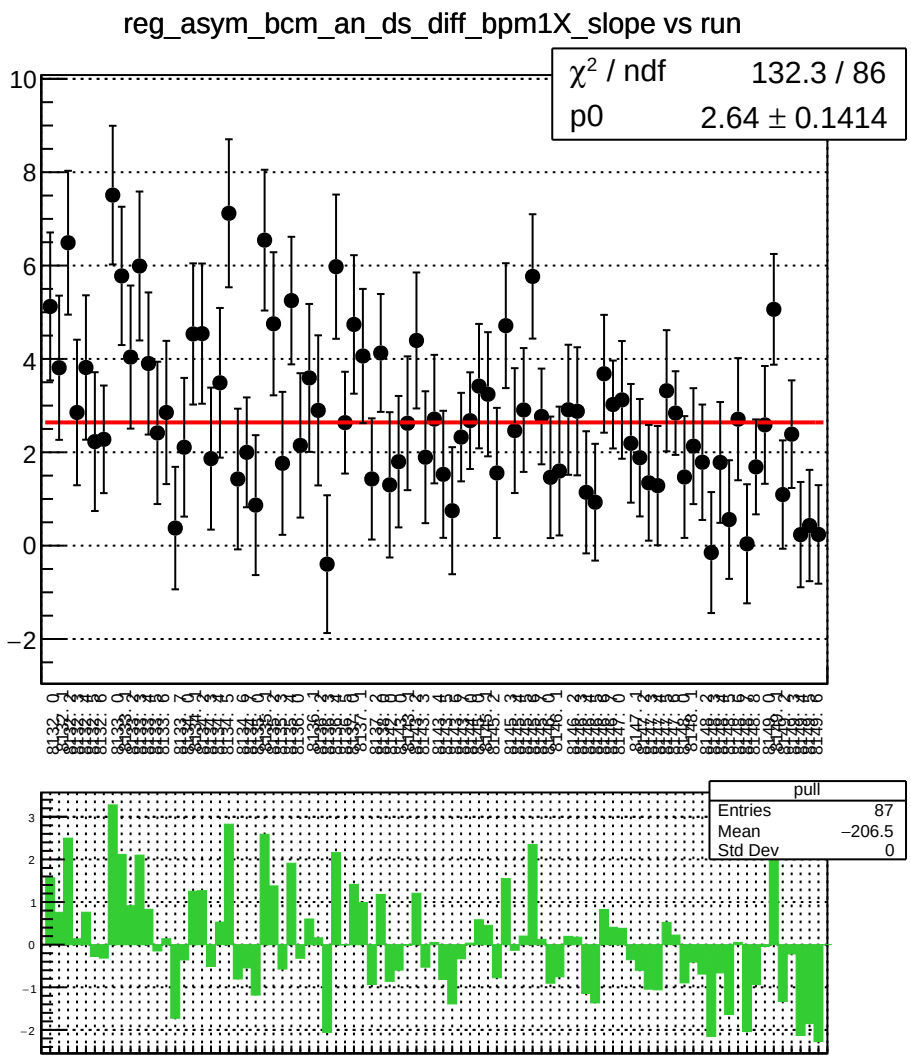

pull1D
Entries 87
Mean 0.0516
Std Dev 1.21

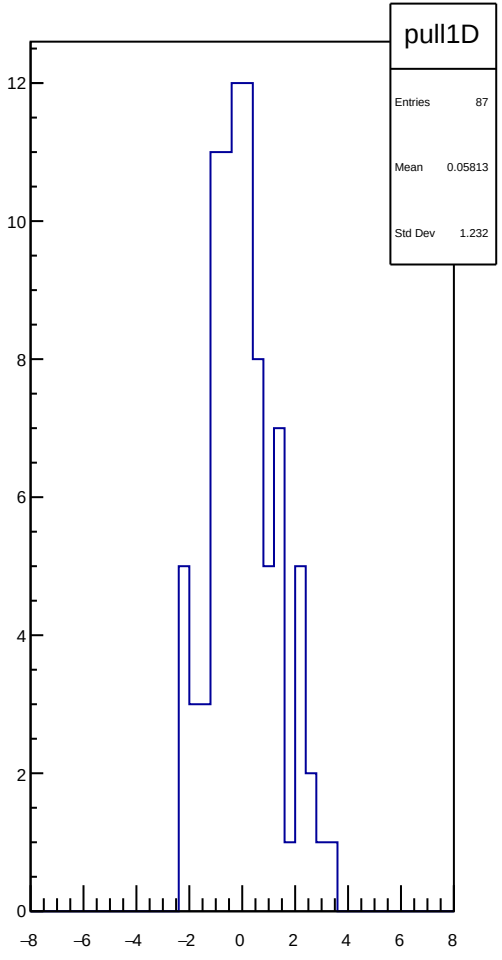

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 91.39 / 86
p0 1.552 ± 0.2466
pull
Entries 87
Mean −127.5
Std Dev 0
pull1D
Entries 87
Mean 0.001704
Std Dev 1.025

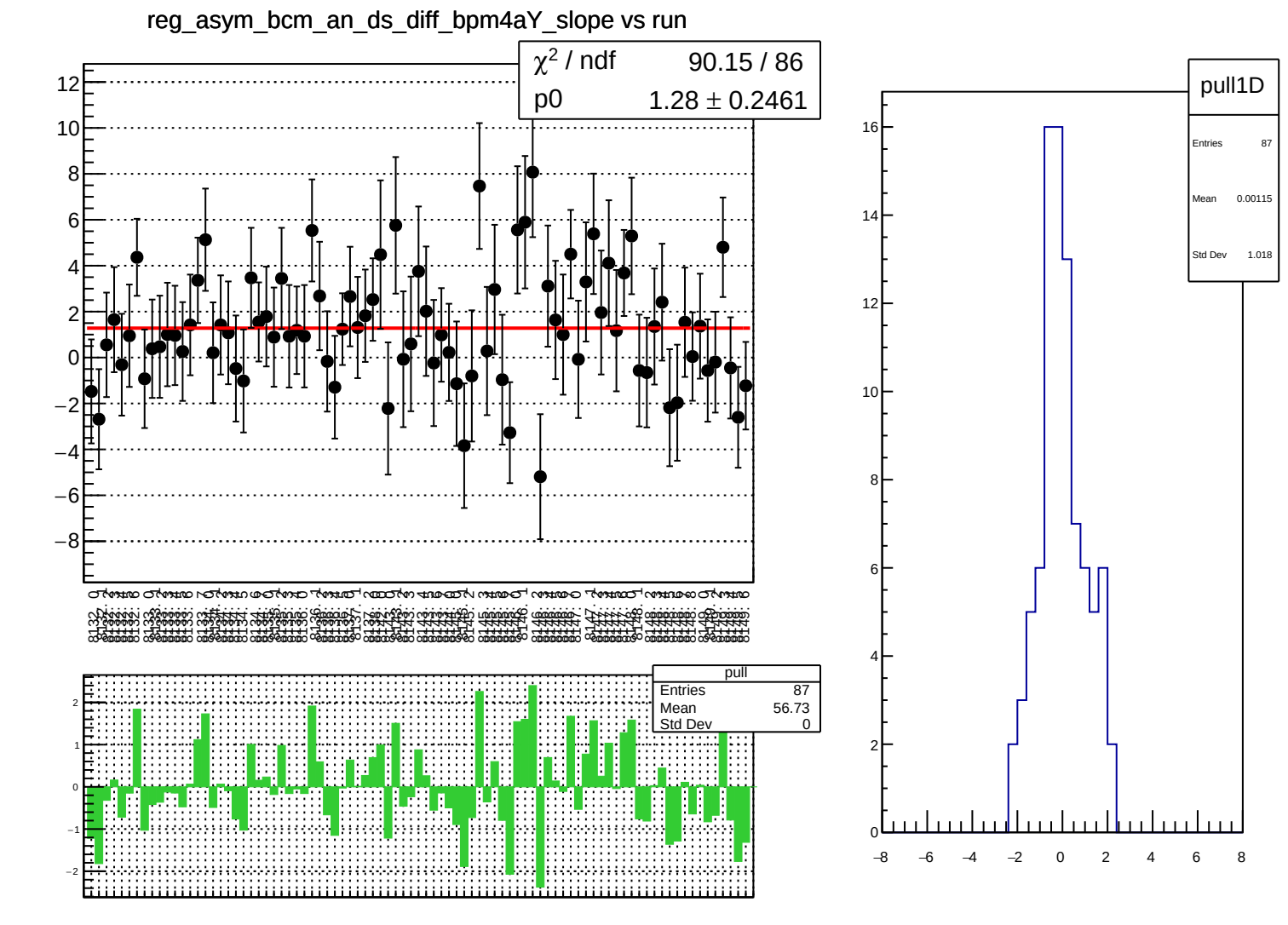

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 129.9 / 86
p0 −2.283 ± 0.14
pull
Entries 87
Mean −386
Std Dev 0
pull1D
Entries 87
Mean −0.0346
Std Dev 1.221

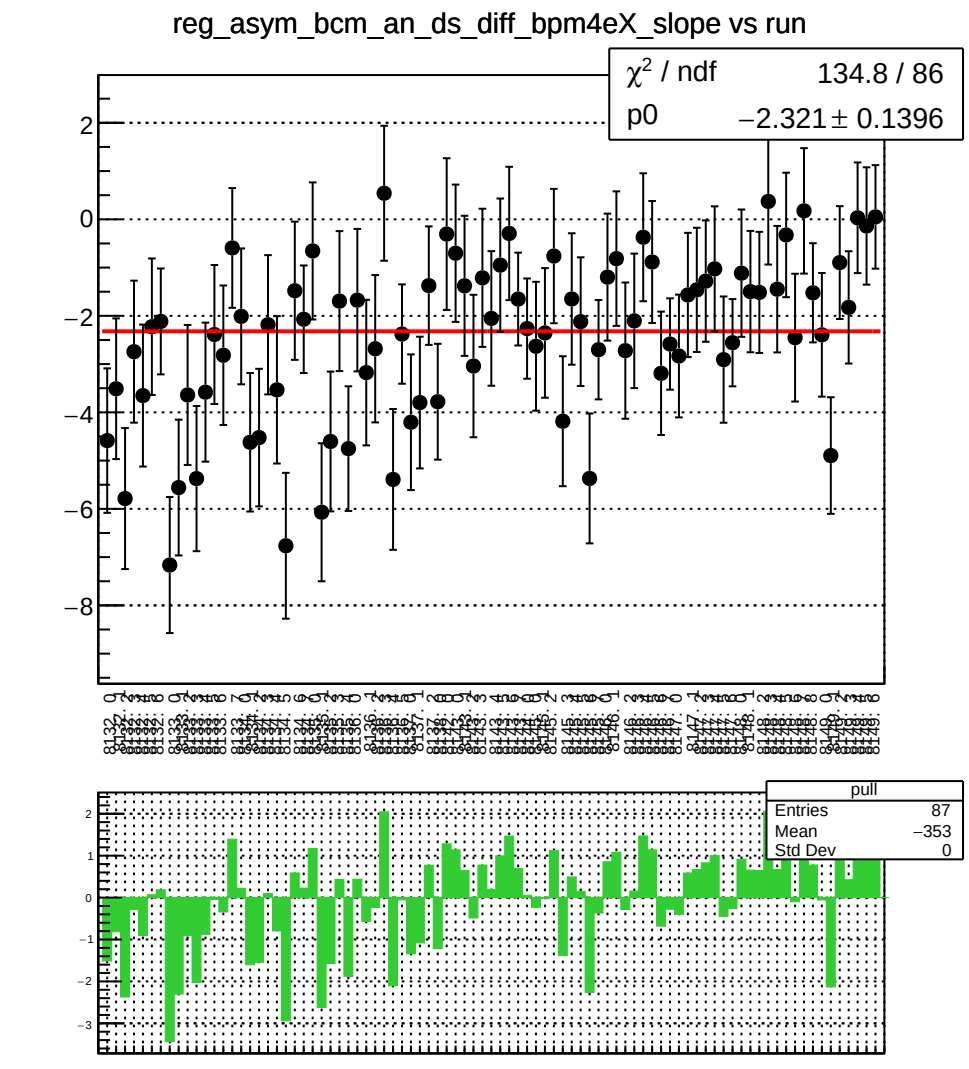

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 89.5 / 86
p0 −2.124 ± 0.264
pull
Entries 87
Mean −7543
Std Dev 0
pull1D
Entries 87
Mean −0.0002115
Std Dev 1.014

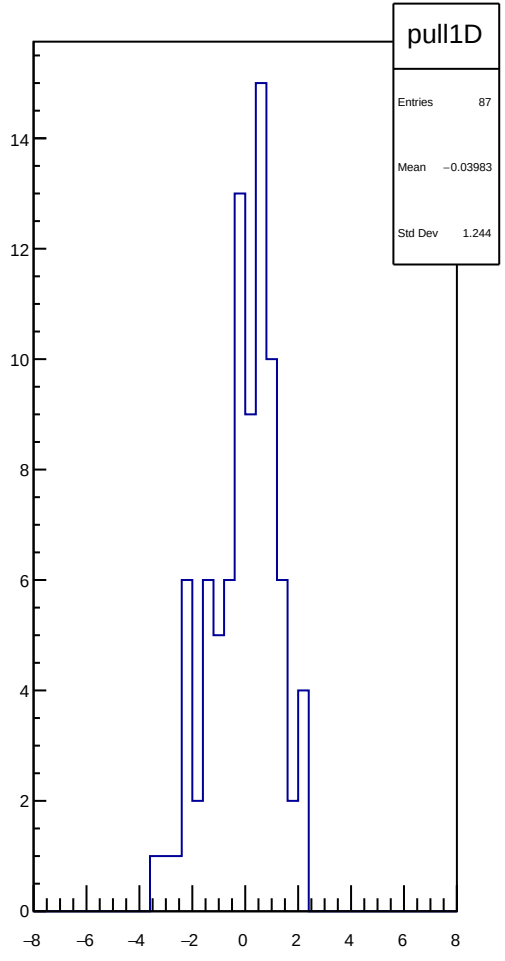

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 191.6 / 86
p0 0.1064 ± 0.01058
pull
Entries 87
Mean 126
Std Dev 0
pull1D
Entries 87
Mean 0.162
Std Dev 1.475

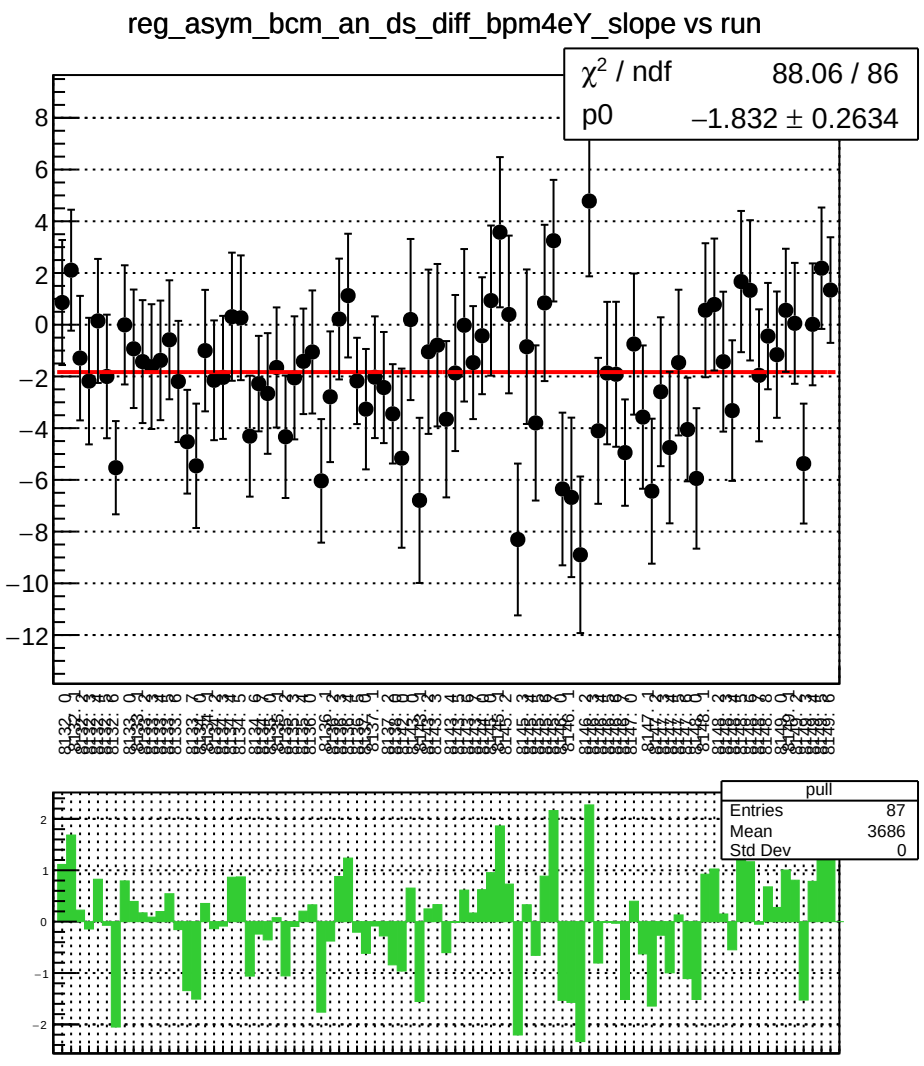

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 132.3 / 86
p0 2.64 ± 0.1414
pull
Entries 87
Mean −206.5
Std Dev 0

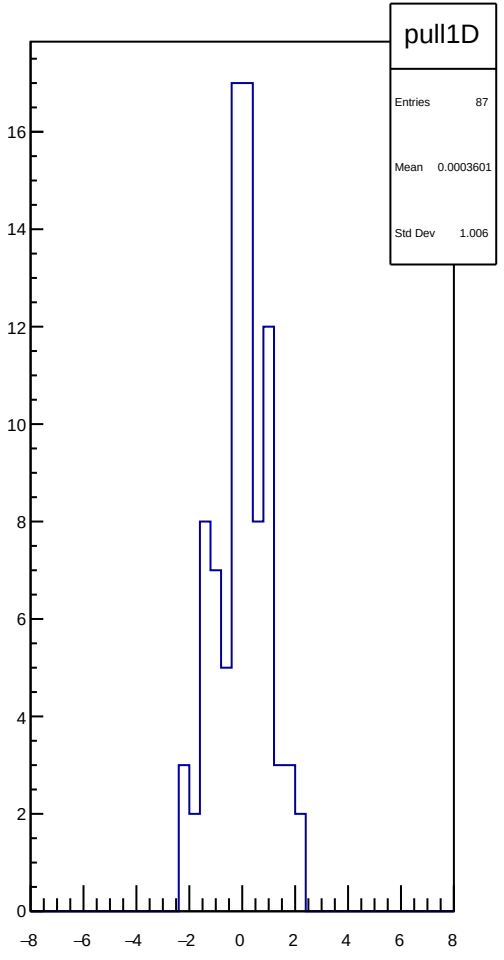

pull1D
Entries 87
Mean 0.05813
Std Dev 1.232

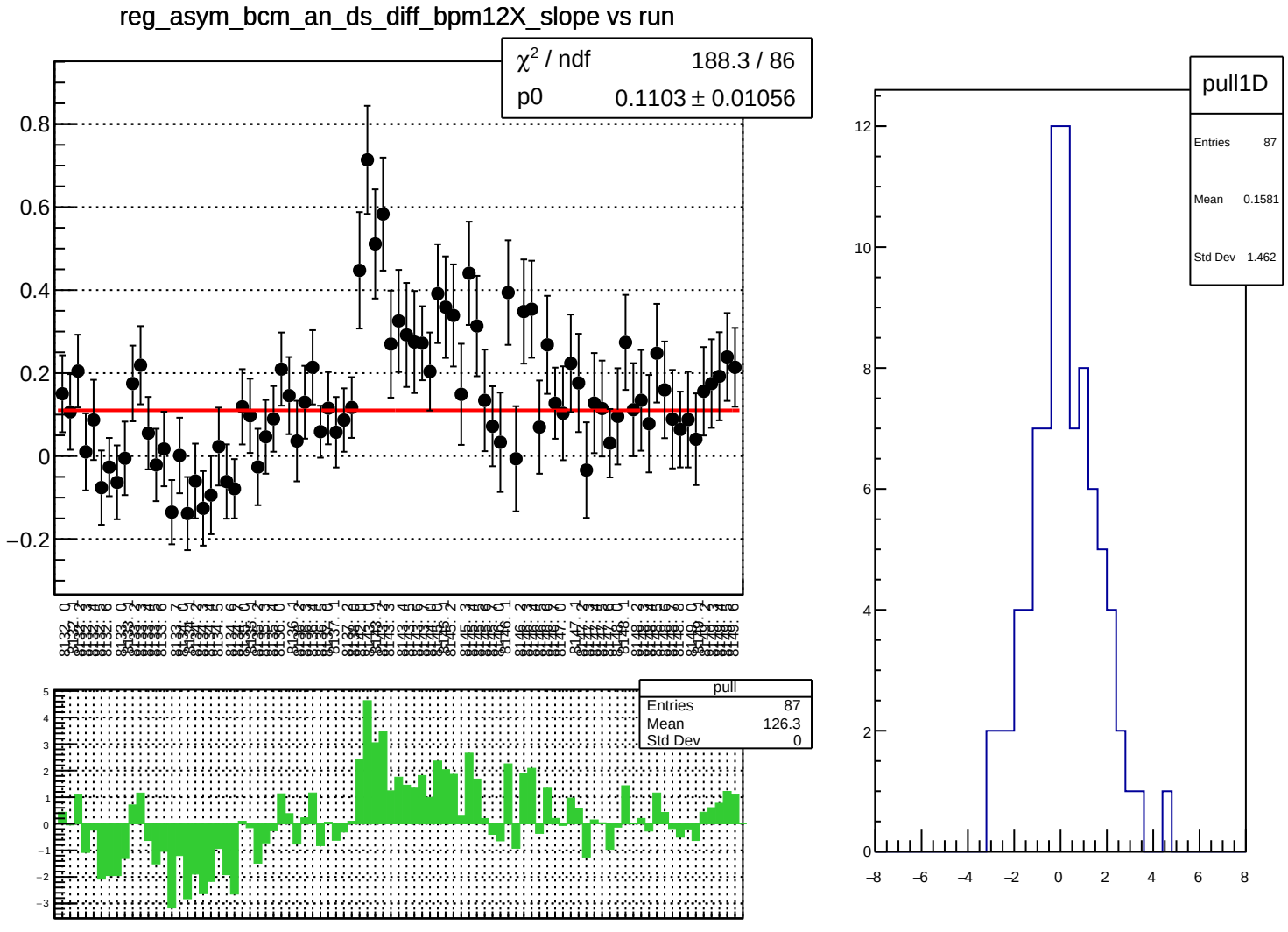

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 90.15 / 86
p0 1.28 ± 0.2461
pull
Entries 87
Mean 56.73
Std Dev 0
pull1D
Entries 87
Mean 0.00115
Std Dev 1.018

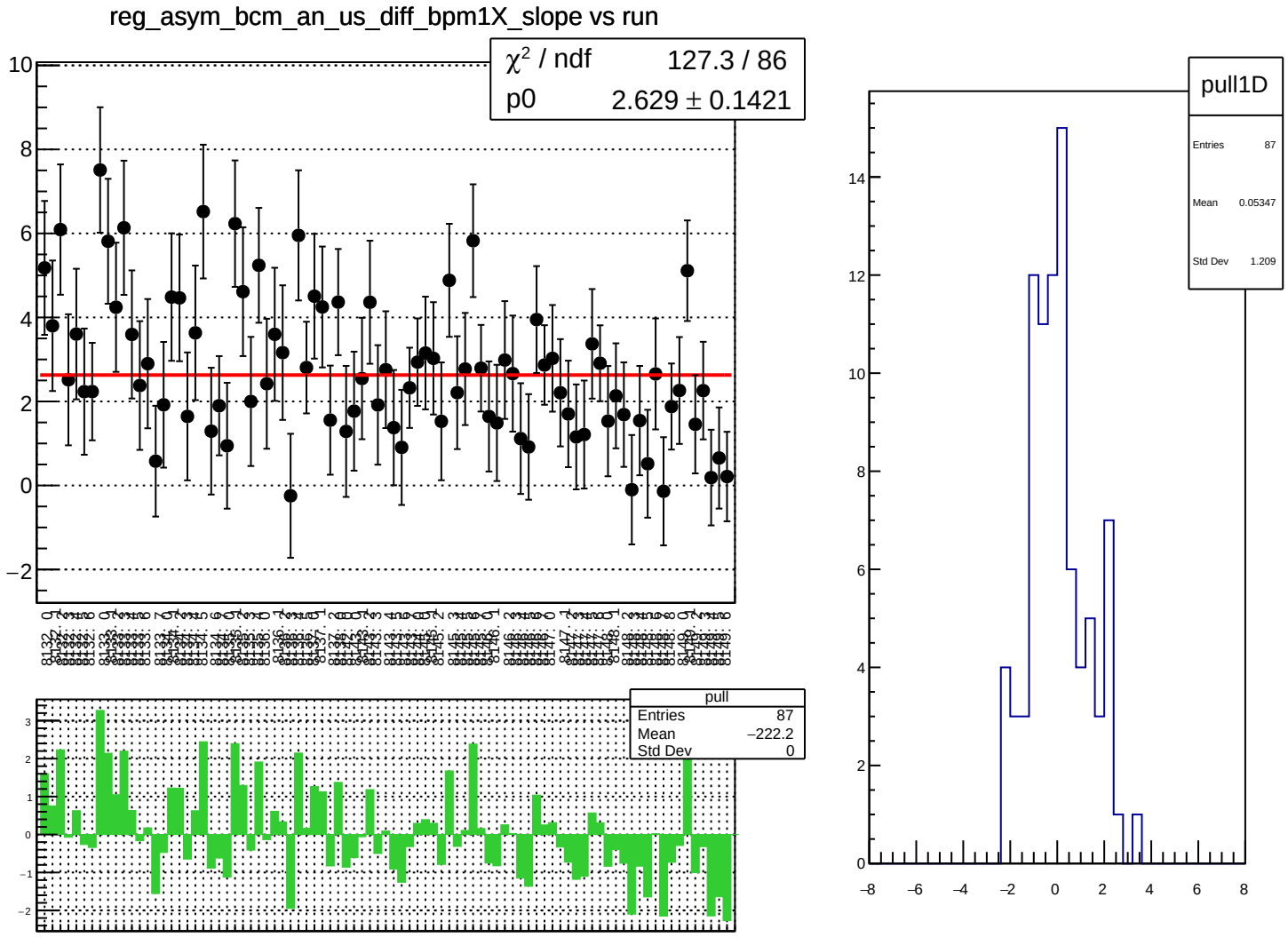

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 134.8 / 86
p0 −2.321 ± 0.1396
pull
Entries 87
Mean −353
Std Dev 0

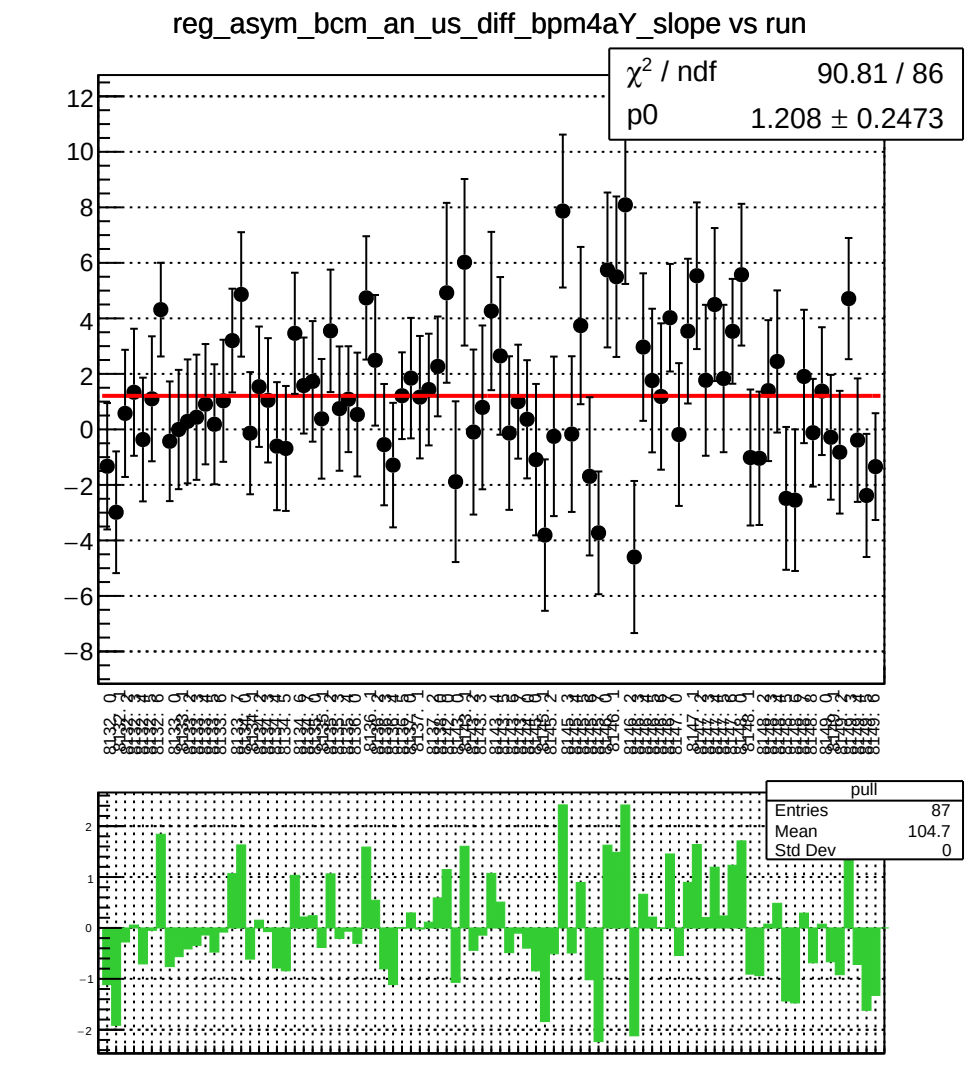

pull1D
Entries 87
Mean −0.03983
Std Dev 1.244

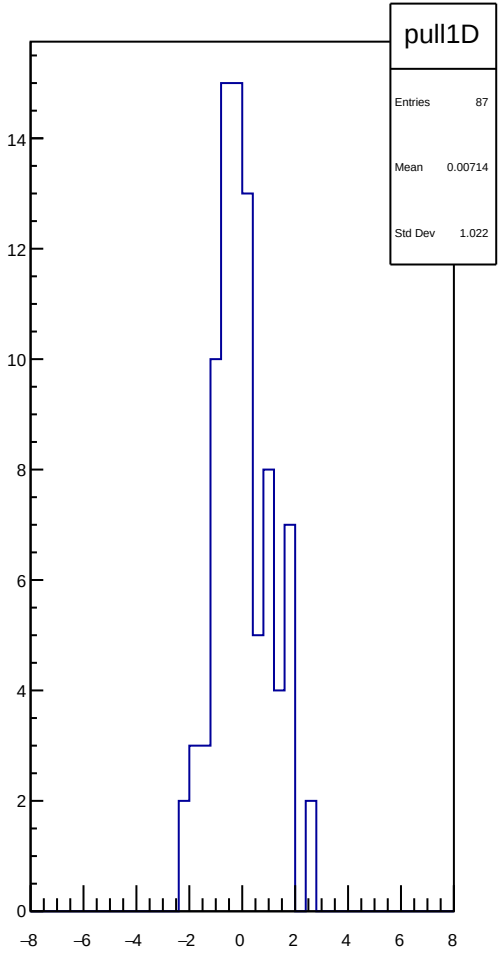

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 88.06 / 86
p0 −1.832 ± 0.2634
pull
Entries 87
Mean 3686
Std Dev 0

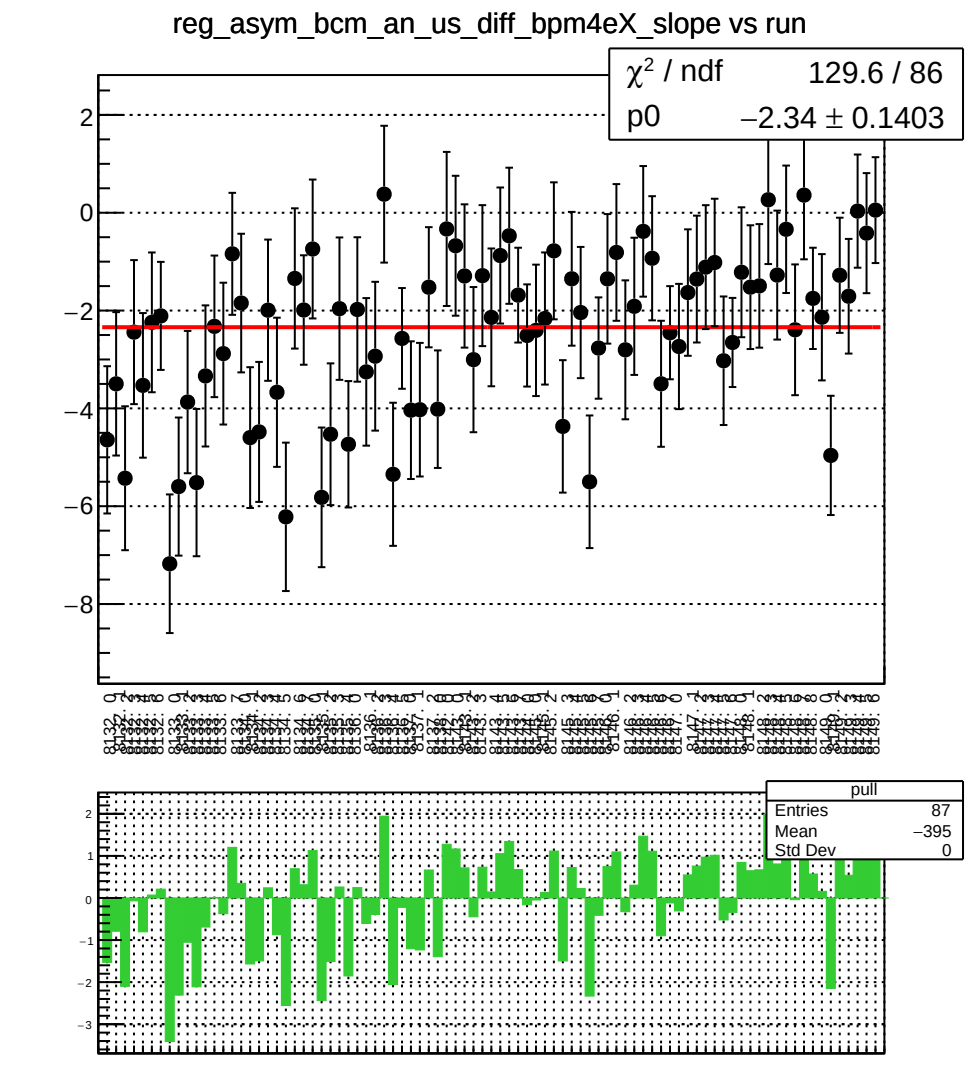

pull1D
Entries 87
Mean 0.0003601
Std Dev 1.006

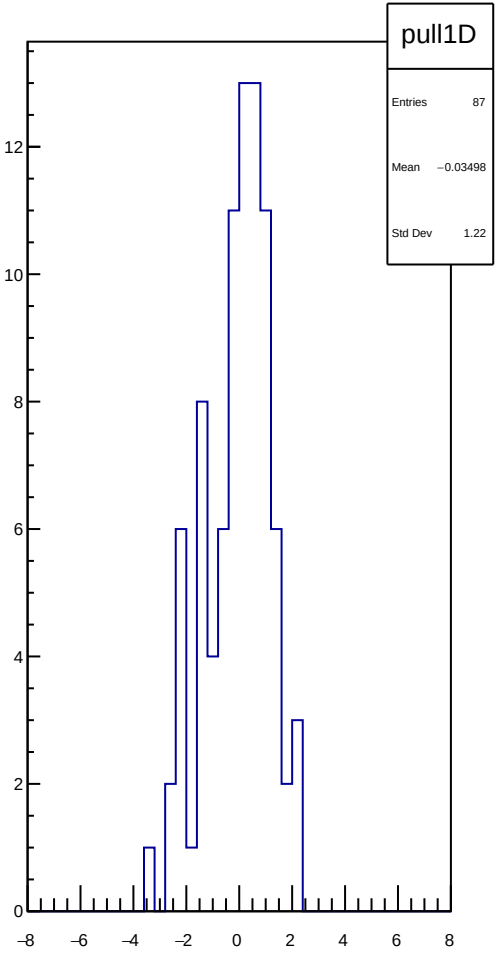

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 188.3 / 86
p0 0.1103 ± 0.01056
pull
Entries 87
Mean 126.3
Std Dev 0
pull1D
Entries 87
Mean 0.1581
Std Dev 1.462

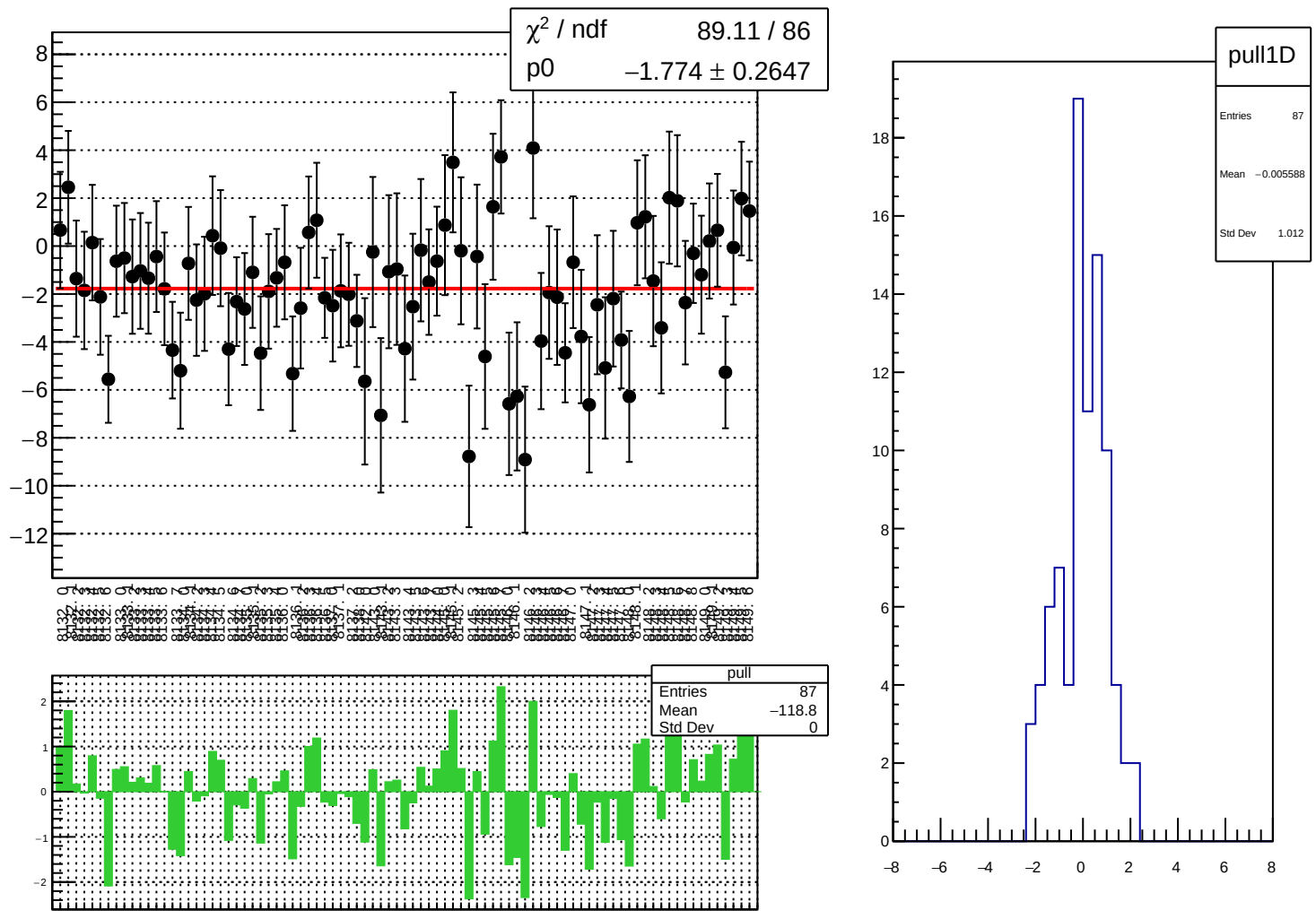

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 127.3 / 86
p0 2.629 ± 0.1421
pull
Entries 87
Mean −222.2
Std Dev 0
pull1D
Entries 87
Mean 0.05347
Std Dev 1.209

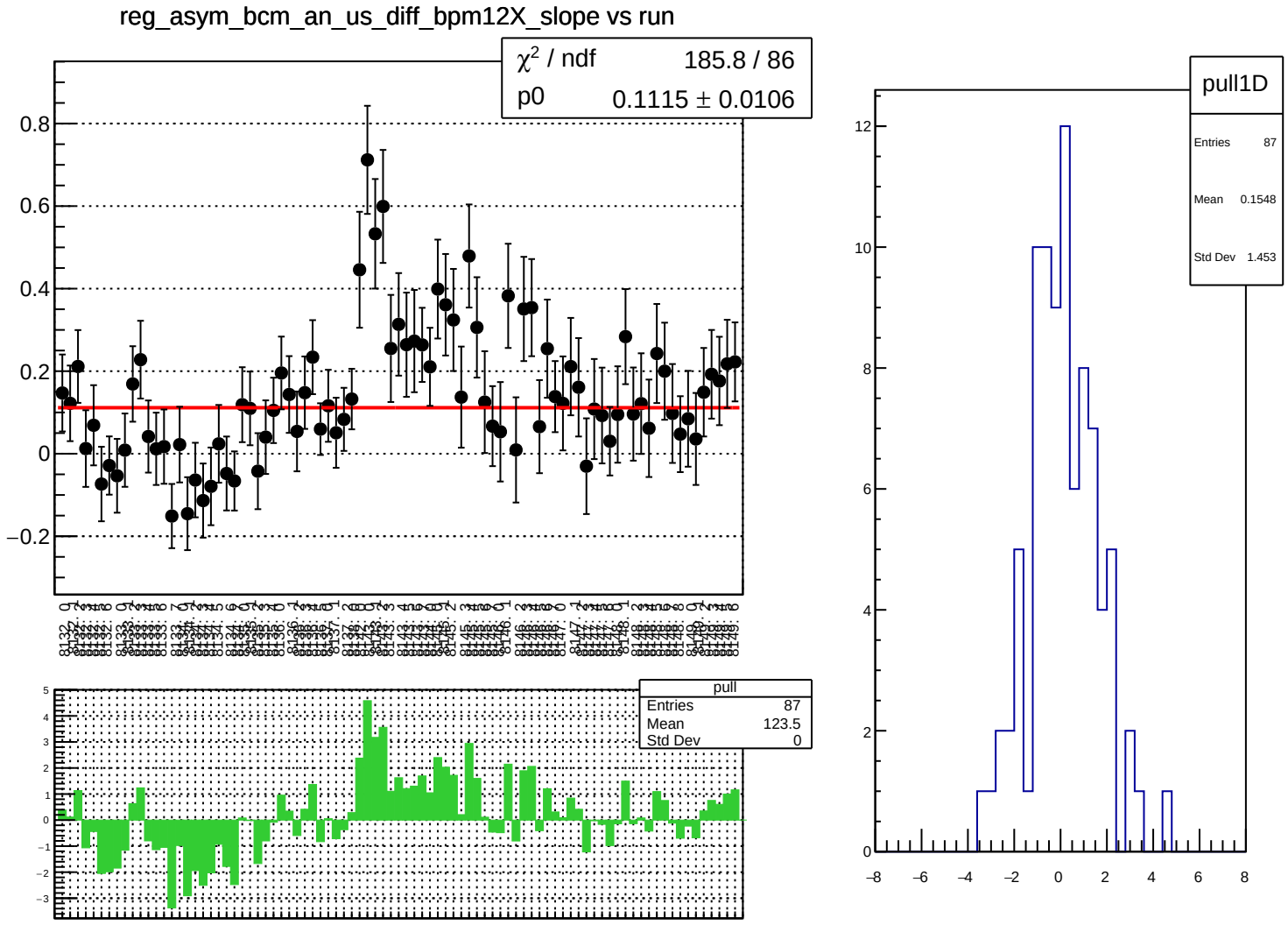

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 90.81 / 86
p0 1.208 ± 0.2473
pull
Entries 87
Mean 104.7
Std Dev 0

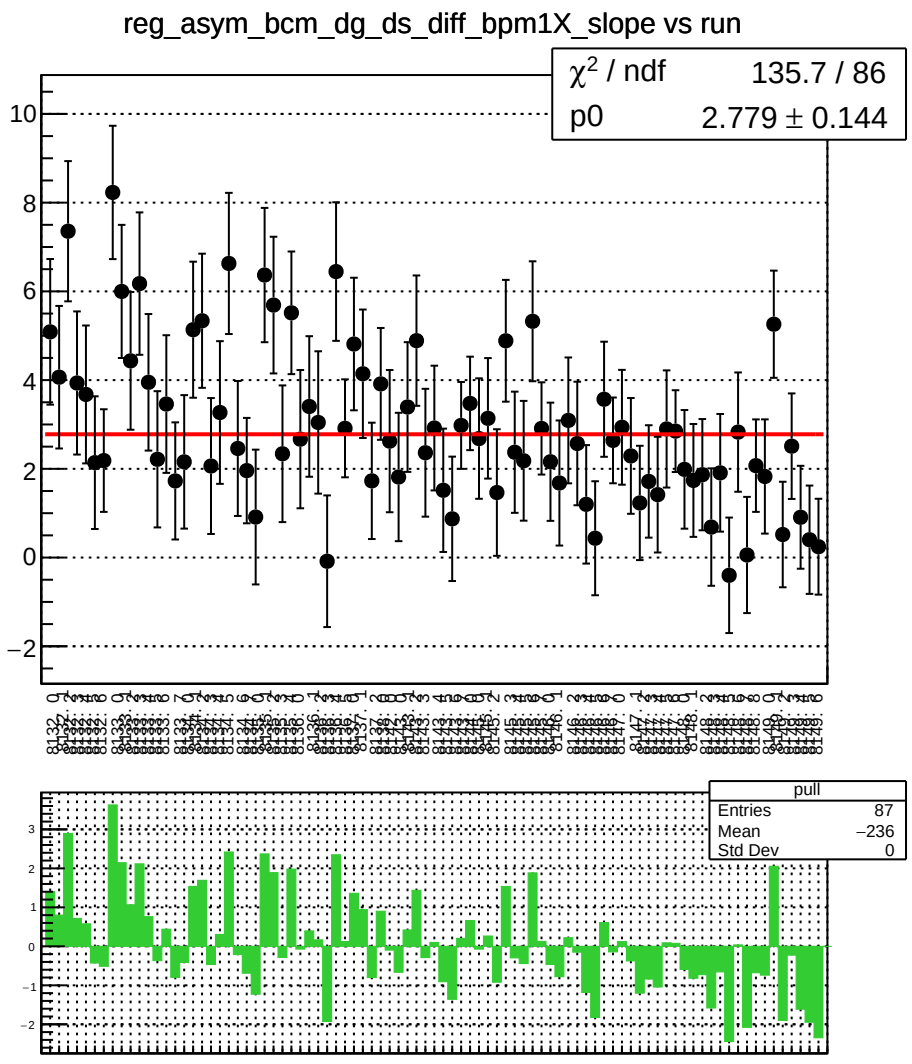

pull1D
Entries 87
Mean 0.00714
Std Dev 1.022

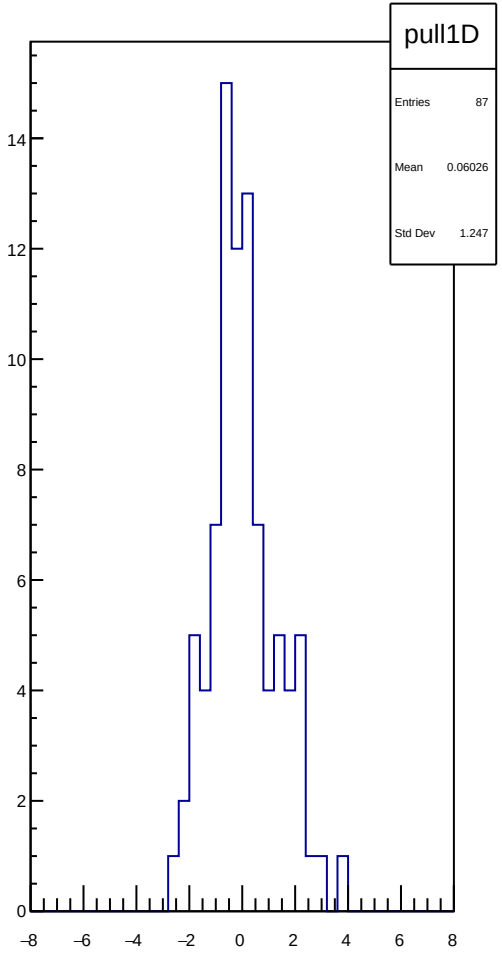

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 129.6 / 86
p0 −2.34 ± 0.1403
pull
Entries 87
Mean −395
Std Dev 0

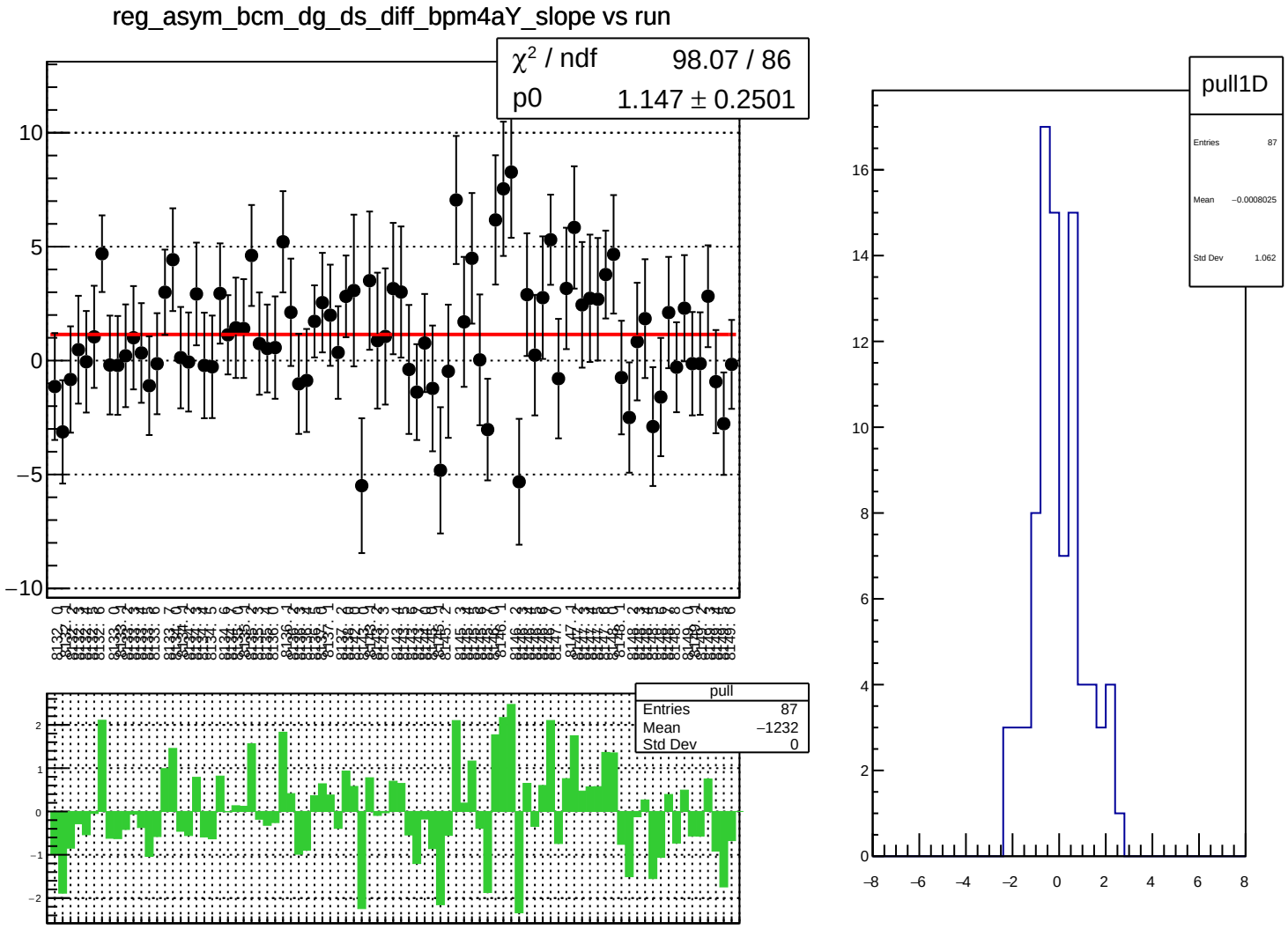

pull1D
Entries 87
Mean −0.03498
Std Dev 1.22

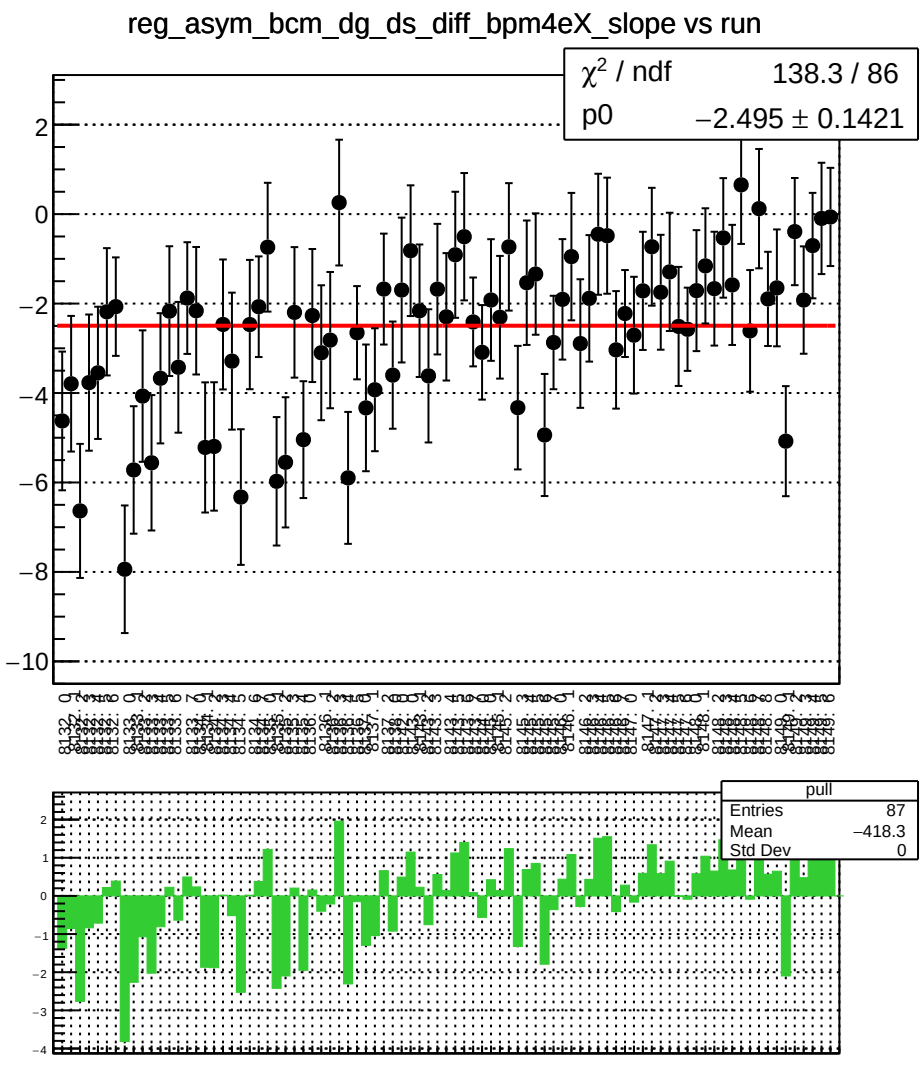

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 89.11 / 86
p0 −1.774 ± 0.2647
pull
Entries 87
Mean −118.8
Std Dev 0
pull1D
Entries 87
Mean −0.005588
Std Dev 1.012

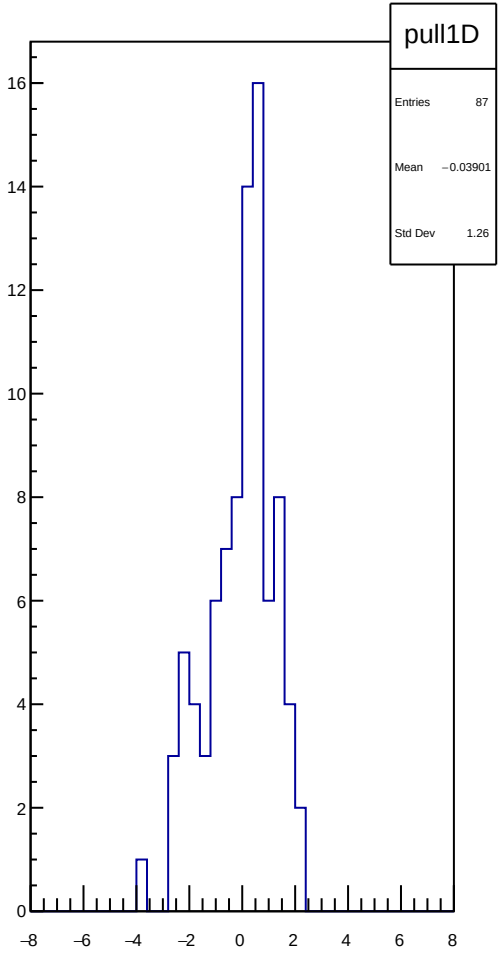

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 185.8 / 86
p0 0.1115 ± 0.0106
pull
Entries 87
Mean 123.5
Std Dev 0
pull1D
Entries 87
Mean 0.1548
Std Dev 1.453

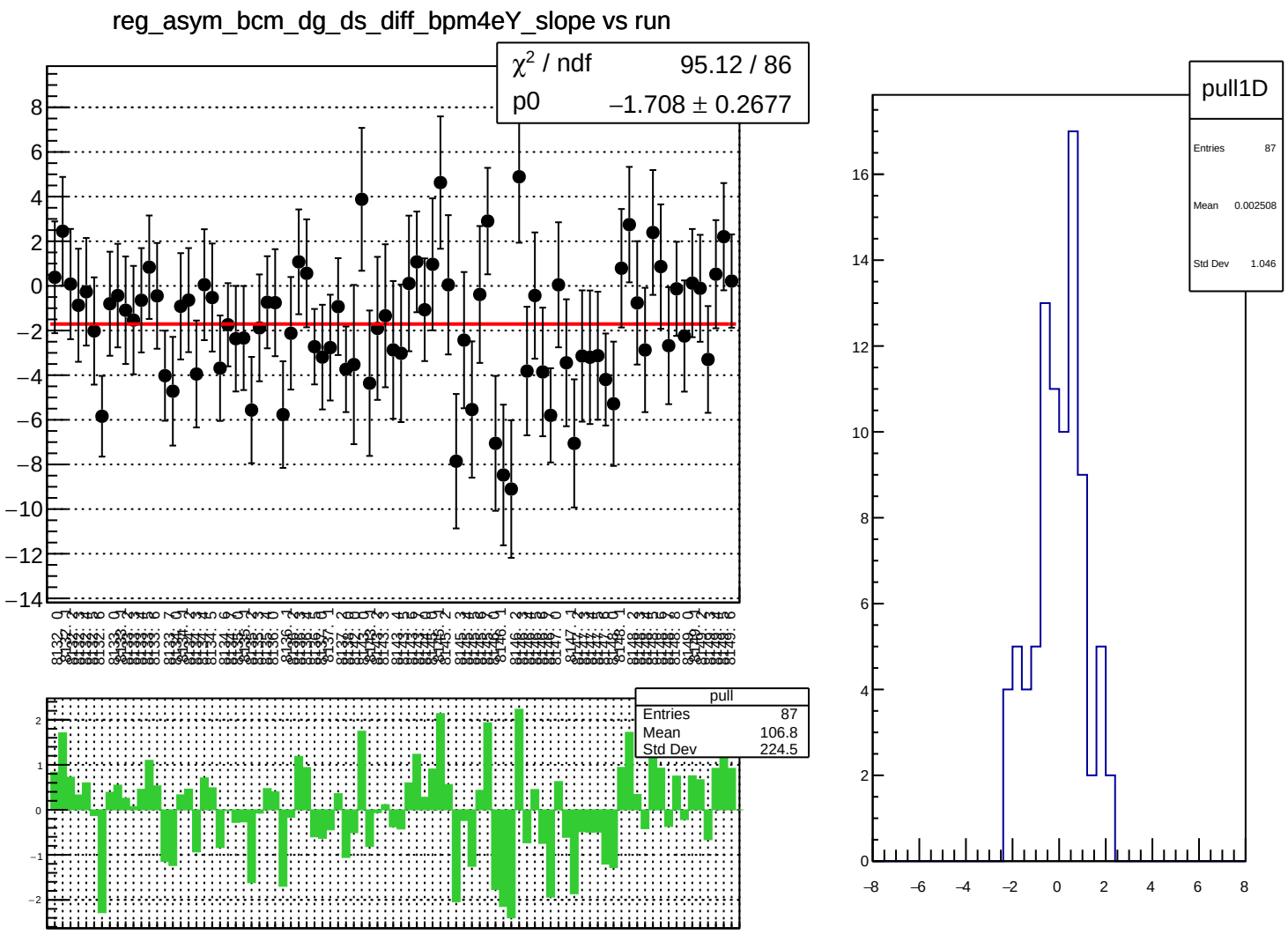

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 135.7 / 86
p0 2.779 ± 0.144
pull
Entries 87
Mean −236
Std Dev 0

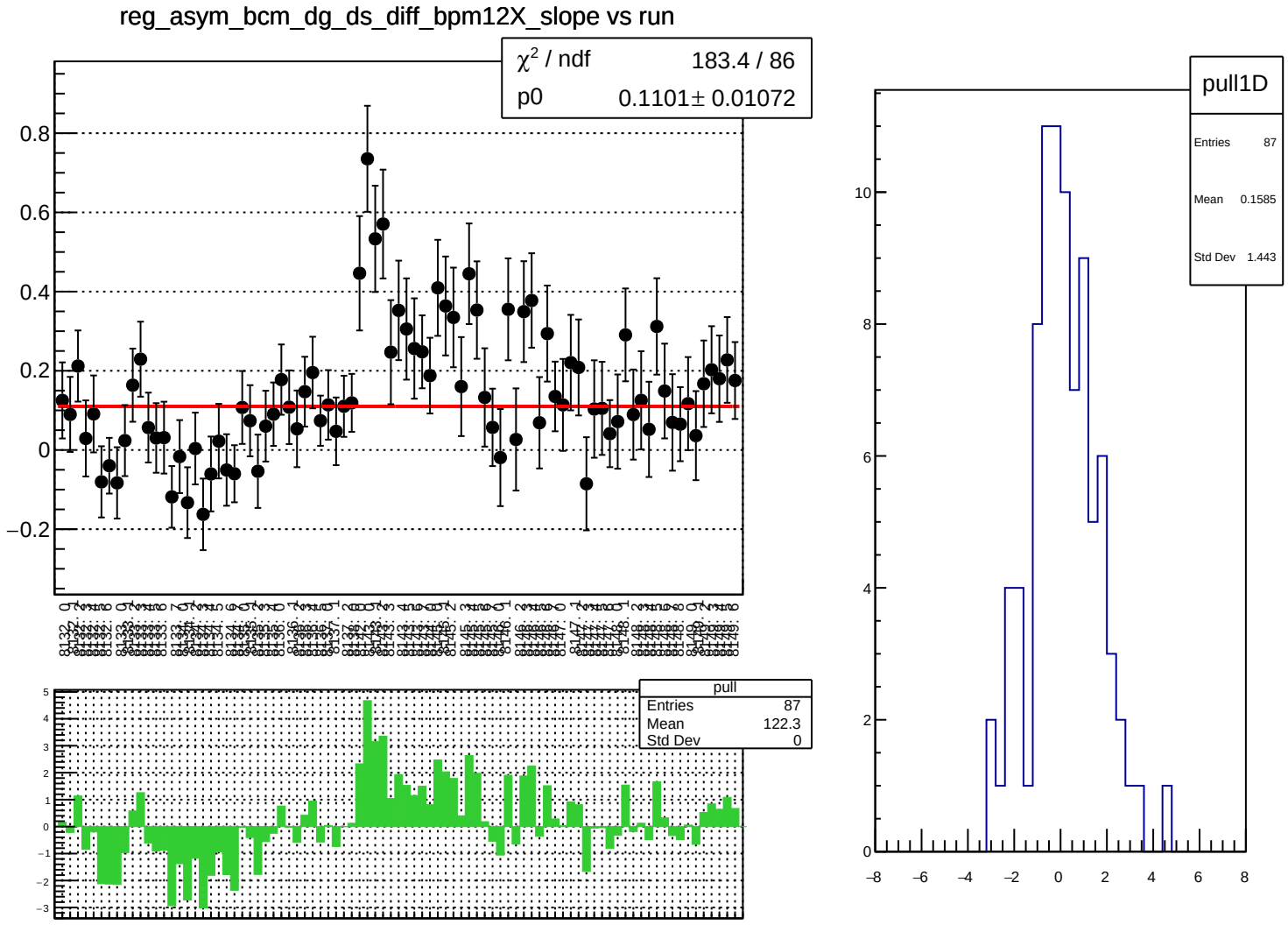

pull1D
Entries 87
Mean 0.06026
Std Dev 1.247

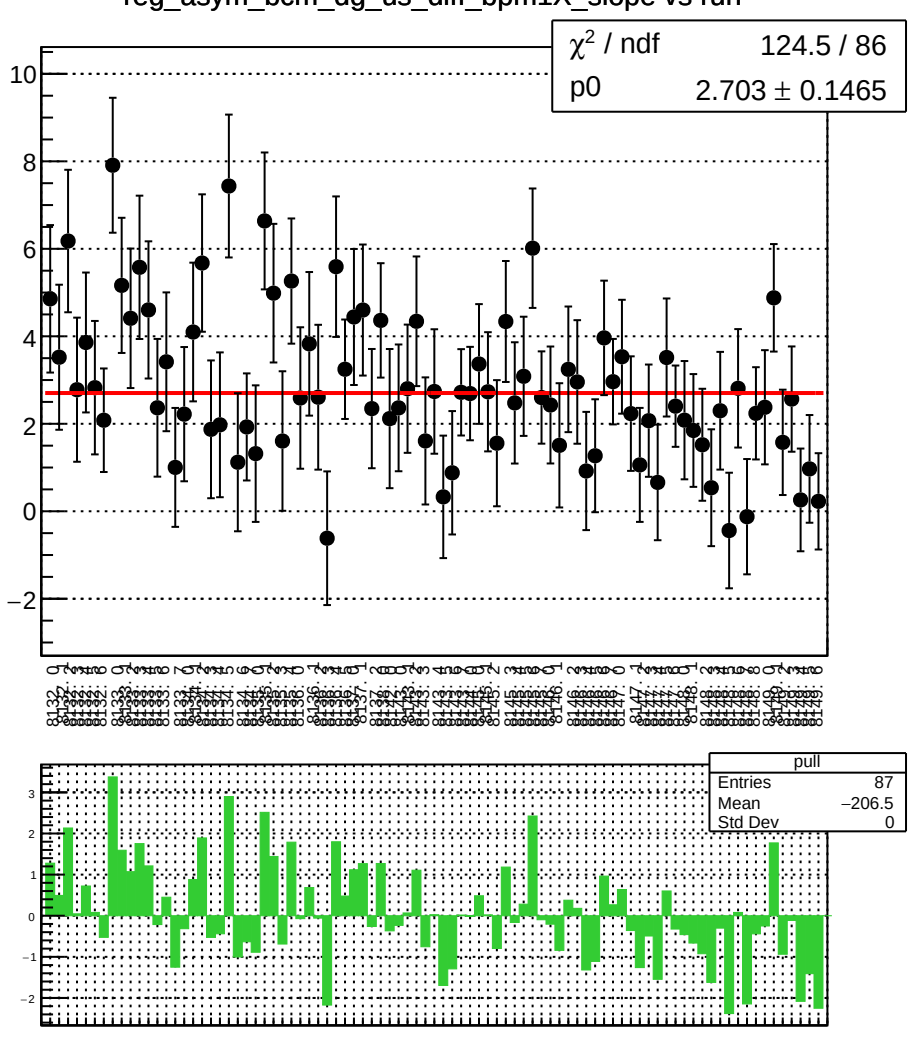

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 98.07 / 86
p0 1.147 ± 0.2501
pull
Entries 87
Mean −1232
Std Dev 0
pull1D
Entries 87
Mean −0.0008025
Std Dev 1.062

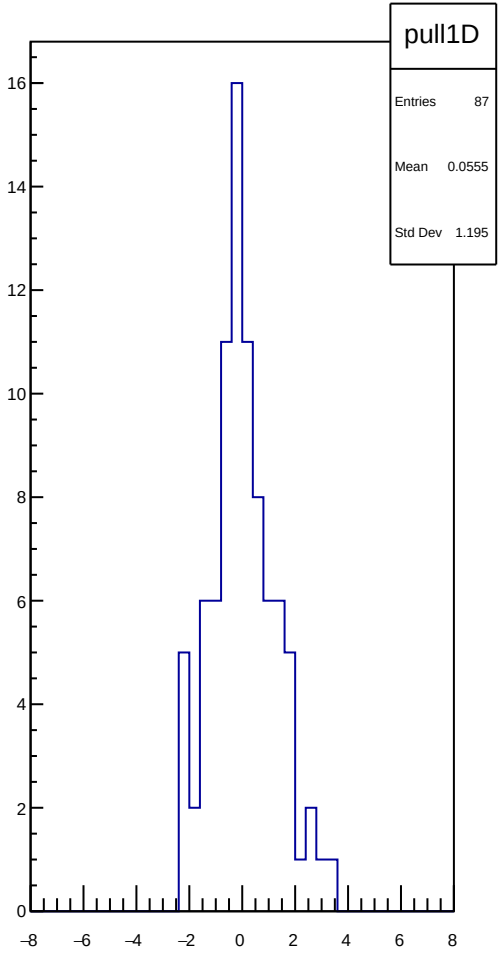

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 138.3 / 86
p0 −2.495 ± 0.1421
pull
Entries 87
Mean −418.3
Std Dev 0

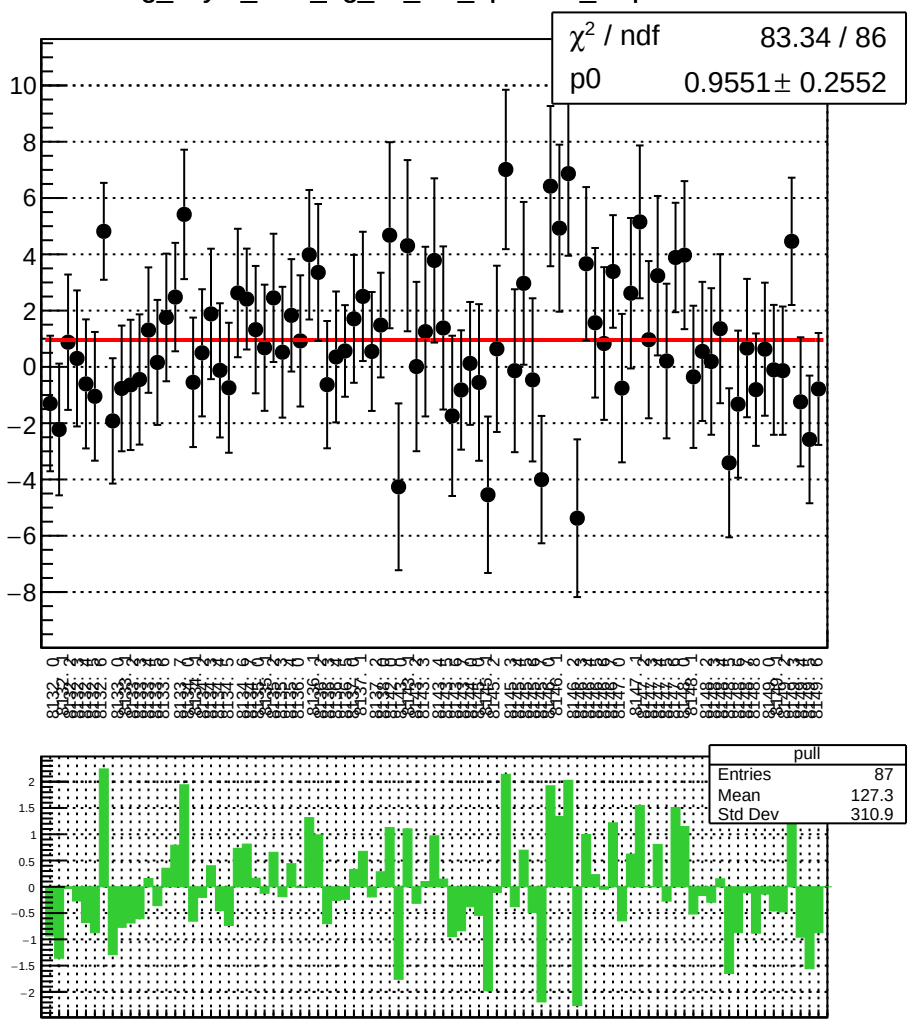

pull1D
Entries 87
Mean −0.03901
Std Dev 1.26

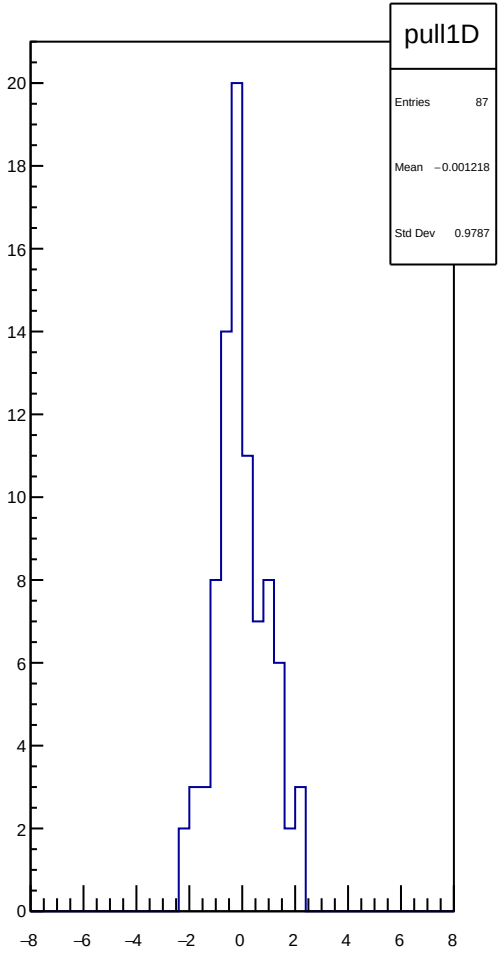

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 95.12 / 86
p0 −1.708 ± 0.2677
pull
Entries 87
Mean 106.8
Std Dev 224.5
pull1D
Entries 87
Mean 0.002508
Std Dev 1.046

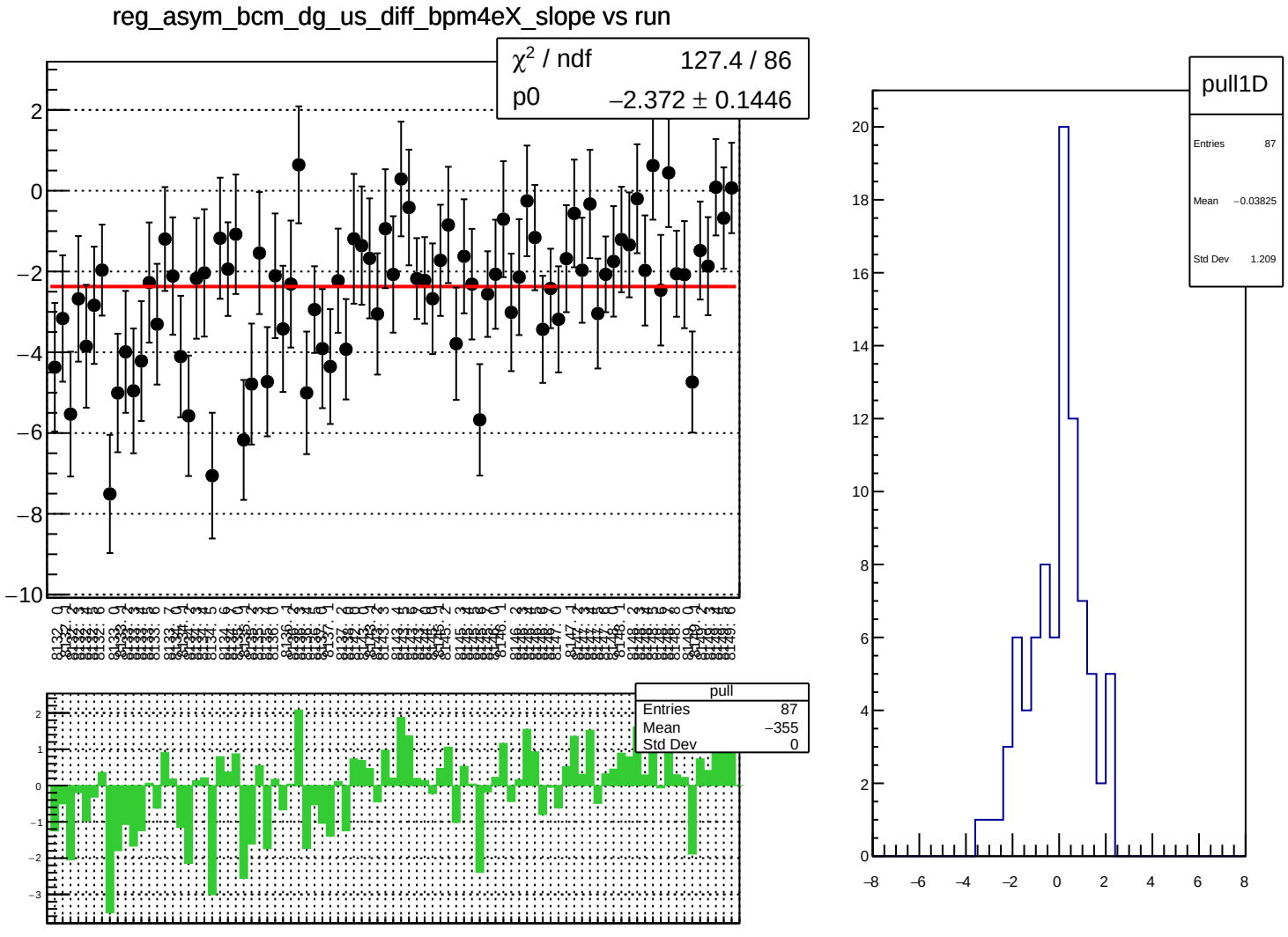

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 183.4 / 86
p0 0.1101± 0.01072
pull
Entries 87
Mean 122.3
Std Dev 0
pull1D
Entries 87
Mean 0.1585
Std Dev 1.443

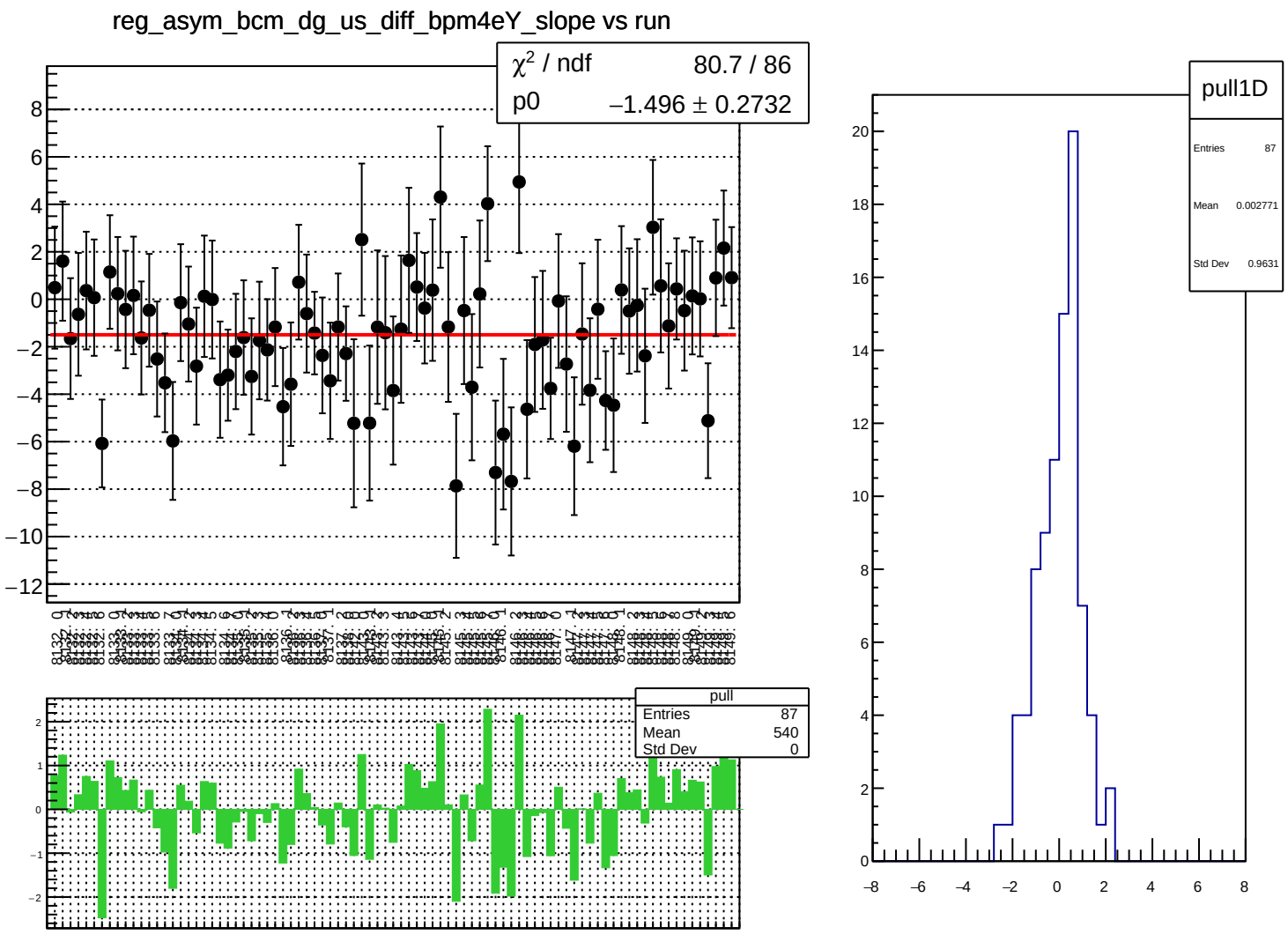

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 124.5 / 86
p0 2.703 ± 0.1465
pull
Entries 87
Mean −206.5
Std Dev 0

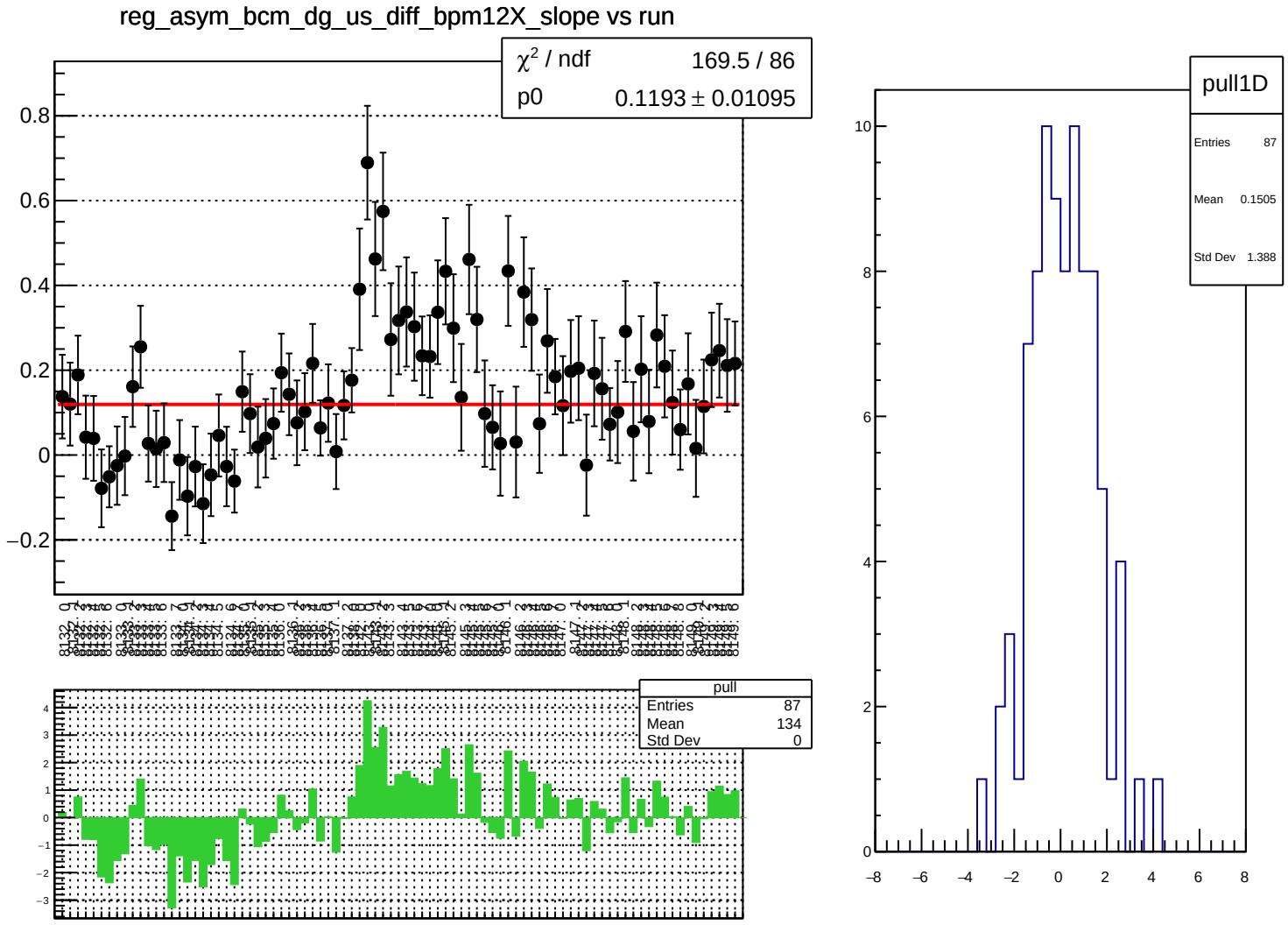

pull1D
Entries 87
Mean 0.0555
Std Dev 1.195

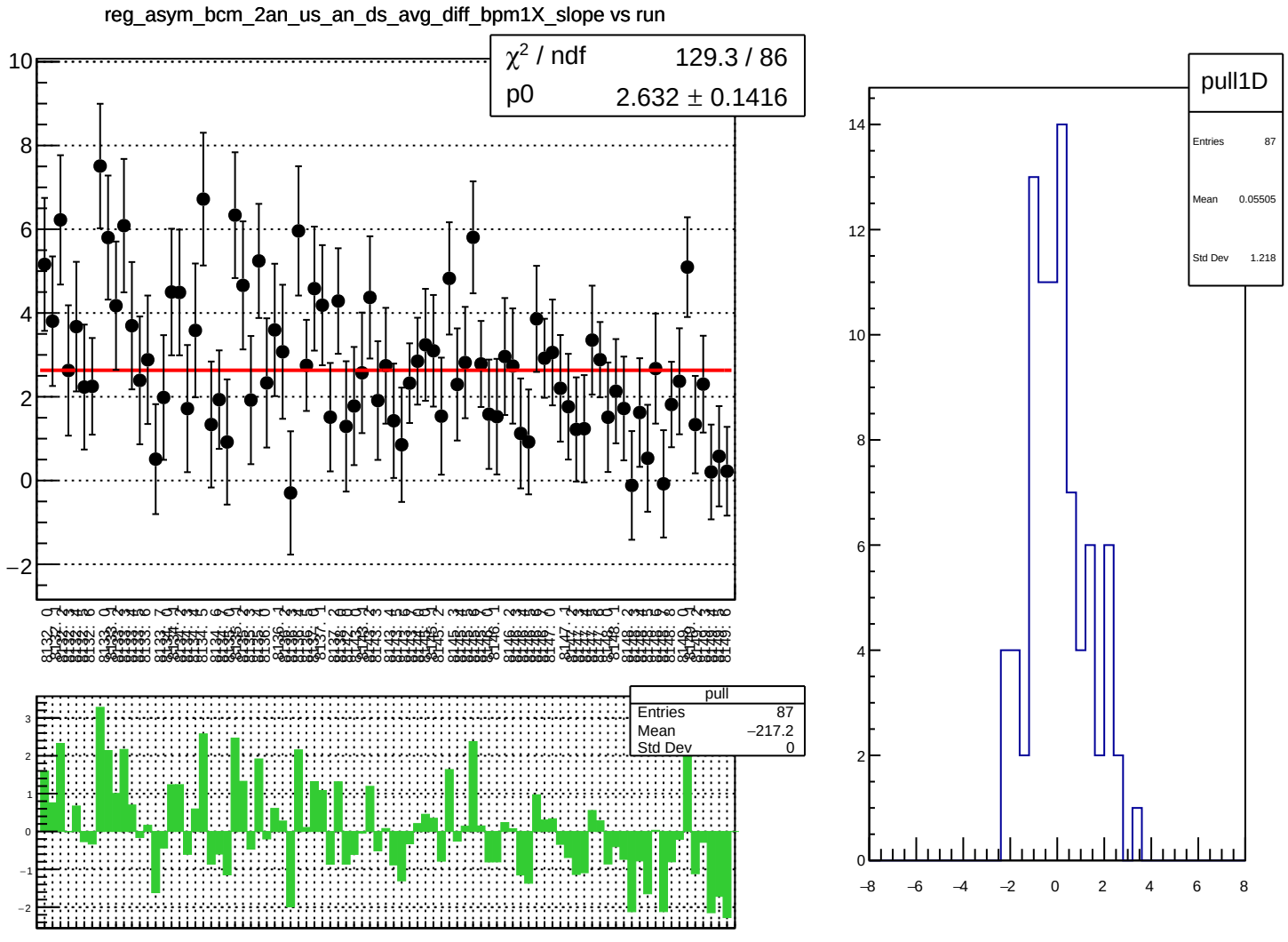

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 83.34 / 86
p0 0.9551 ± 0.2552
pull
Entries 87
Mean 127.3
Std Dev 310.9

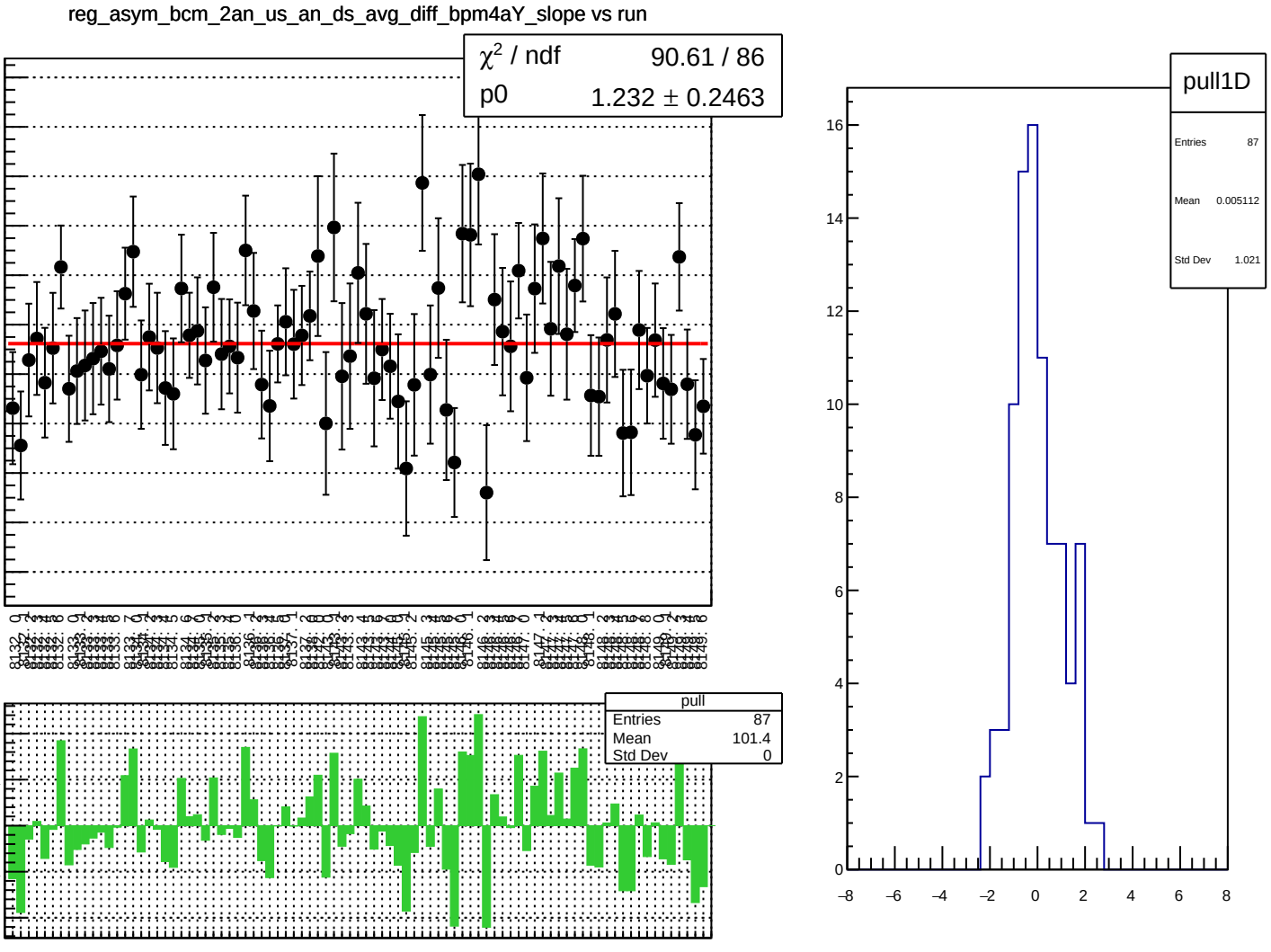

pull1D
Entries 87
Mean −0.001218
Std Dev 0.9787

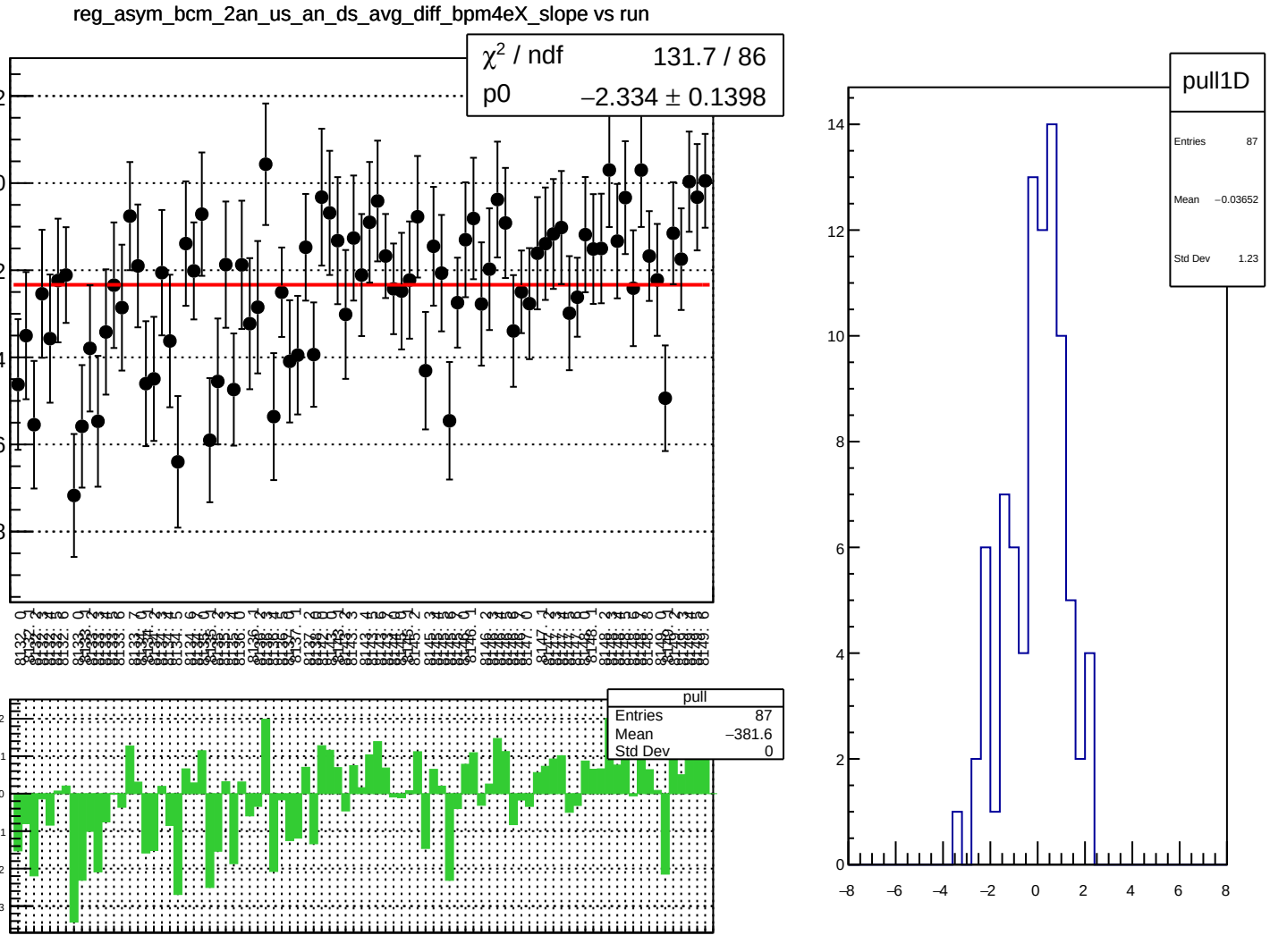

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 127.4 / 86
p0 −2.372 ± 0.1446
pull
Entries 87
Mean −355
Std Dev 0
pull1D
Entries 87
Mean −0.03825
Std Dev 1.209

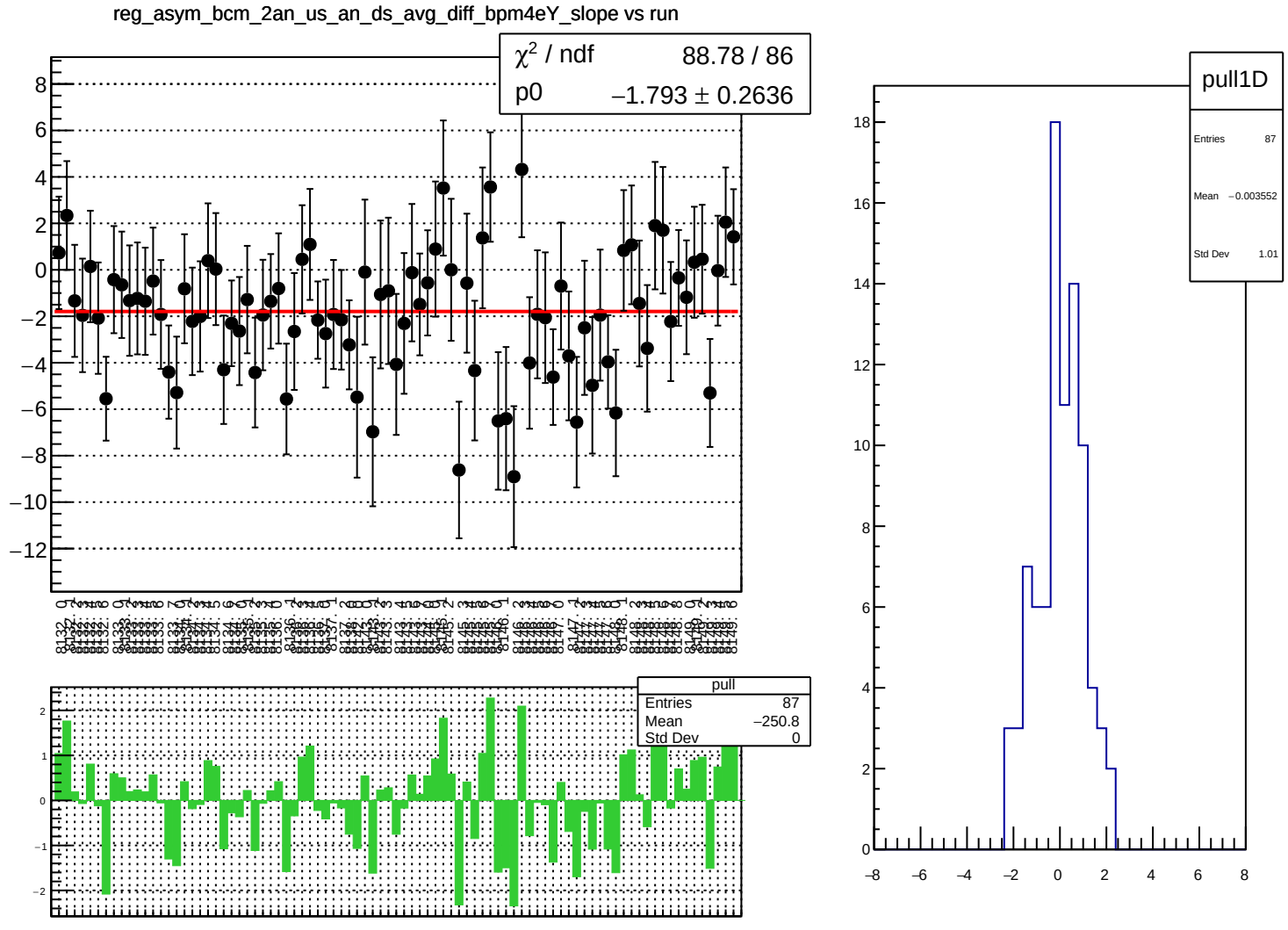

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 80.7 / 86
p0 −1.496 ± 0.2732
pull
Entries 87
Mean 540
Std Dev 0
pull1D
Entries 87
Mean 0.002771
Std Dev 0.9631

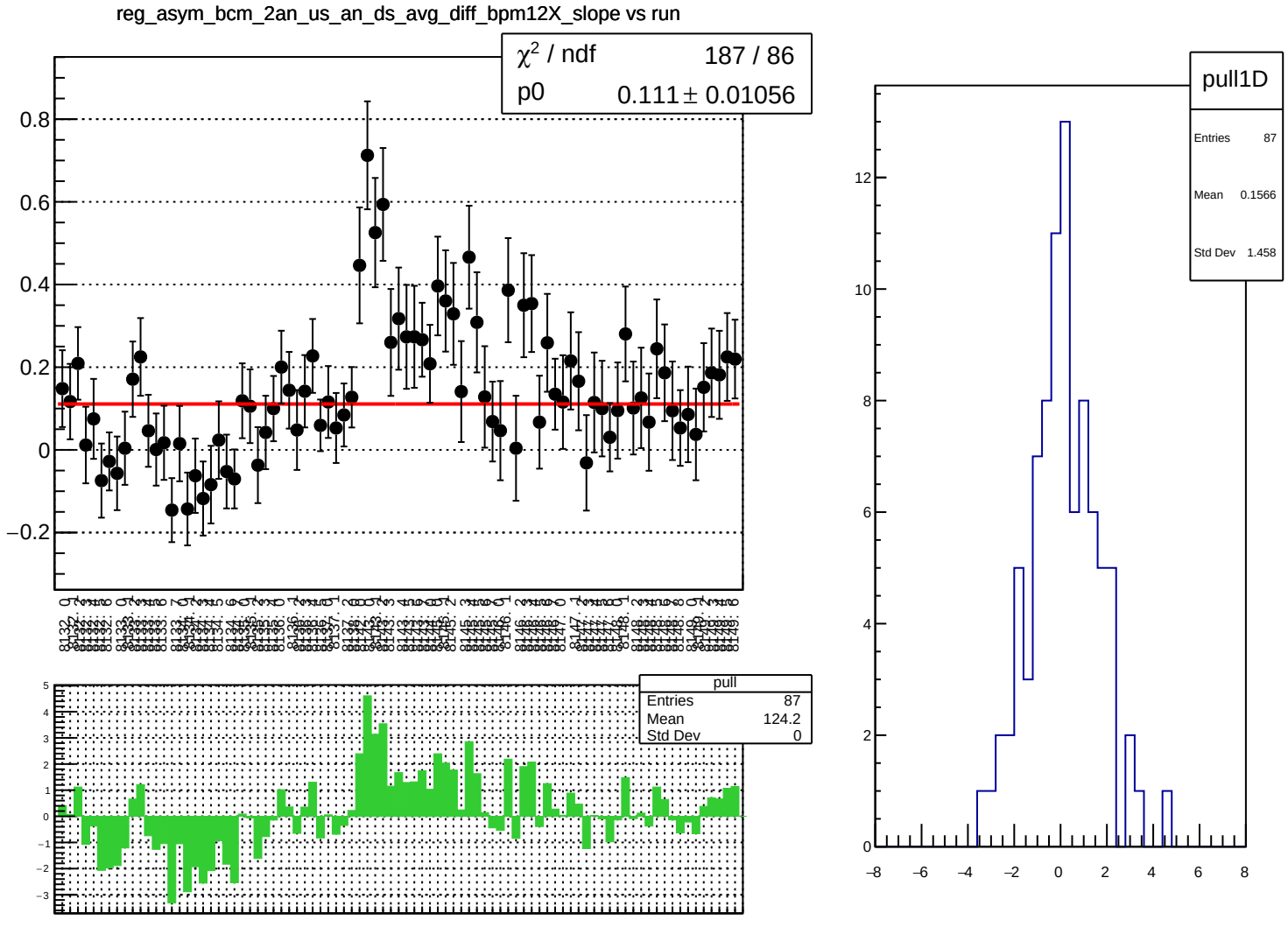

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 169.5 / 86
p0 0.1193 ± 0.01095
pull
Entries 87
Mean 134
Std Dev 0
pull1D
Entries 87
Mean 0.1505
Std Dev 1.388

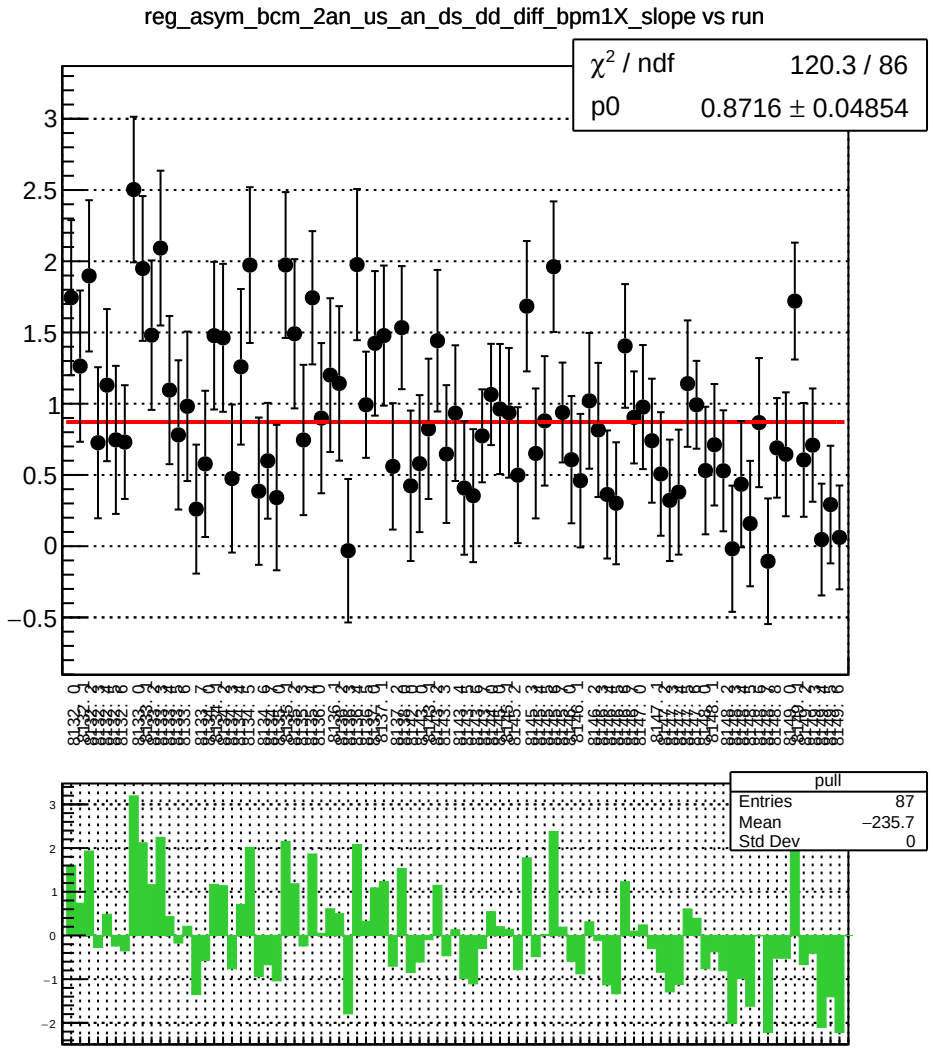

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 129.3 / 86
p0 2.632 ± 0.1416
pull
Entries 87
Mean −217.2
Std Dev 0
pull1D
Entries 87
Mean 0.05505
Std Dev 1.218

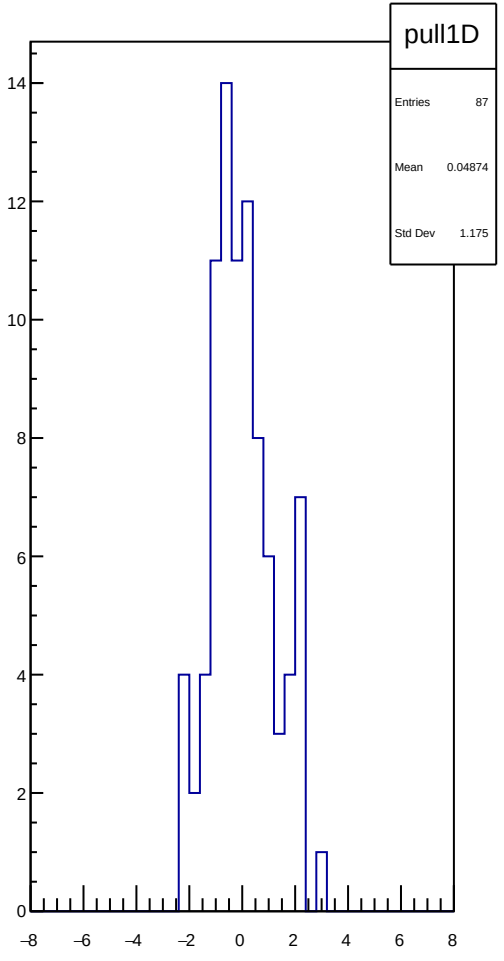

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 90.61 / 86
p0 1.232 ± 0.2463
pull
Entries 87
Mean 101.4
Std Dev 0
pull1D
Entries 87
Mean 0.005112
Std Dev 1.021

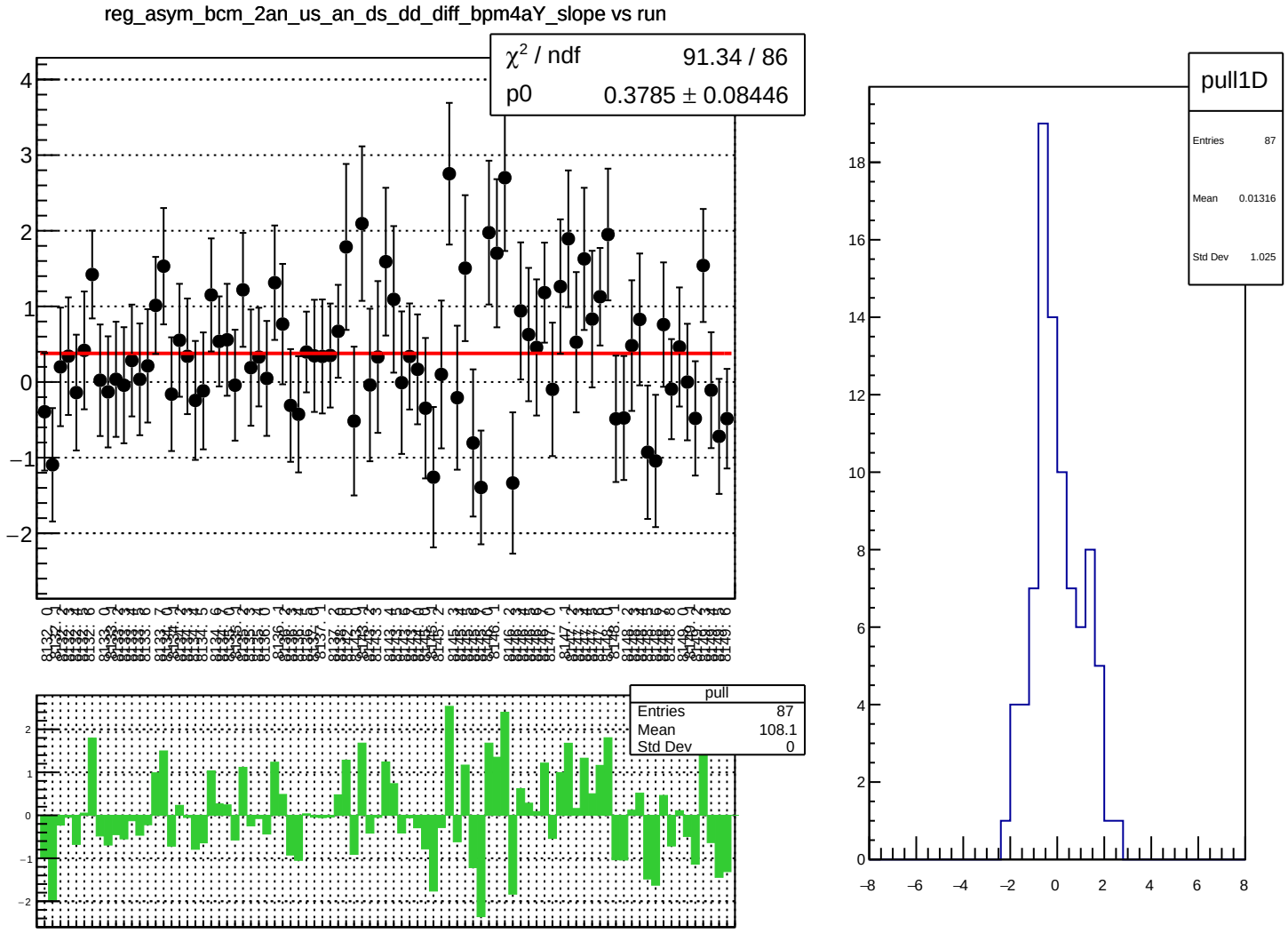

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 131.7 / 86
p0 −2.334 ± 0.1398
pull
Entries 87
Mean −381.6
Std Dev 0
pull1D
Entries 87
Mean −0.03652
Std Dev 1.23

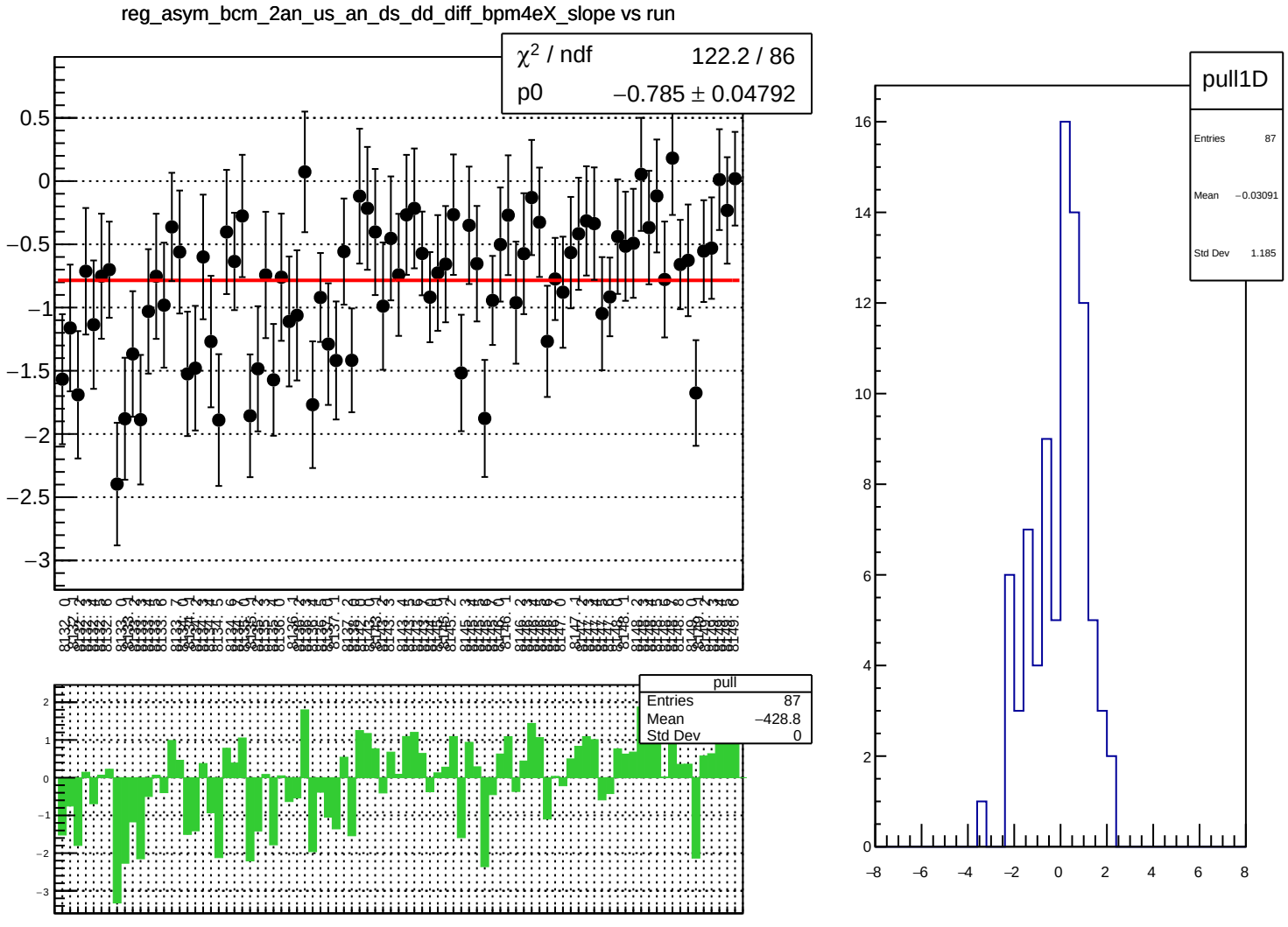

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 88.78 / 86
p0 −1.793 ± 0.2636
pull
Entries 87
Mean −250.8
Std Dev 0
pull1D
Entries 87
Mean −0.003552
Std Dev 1.01

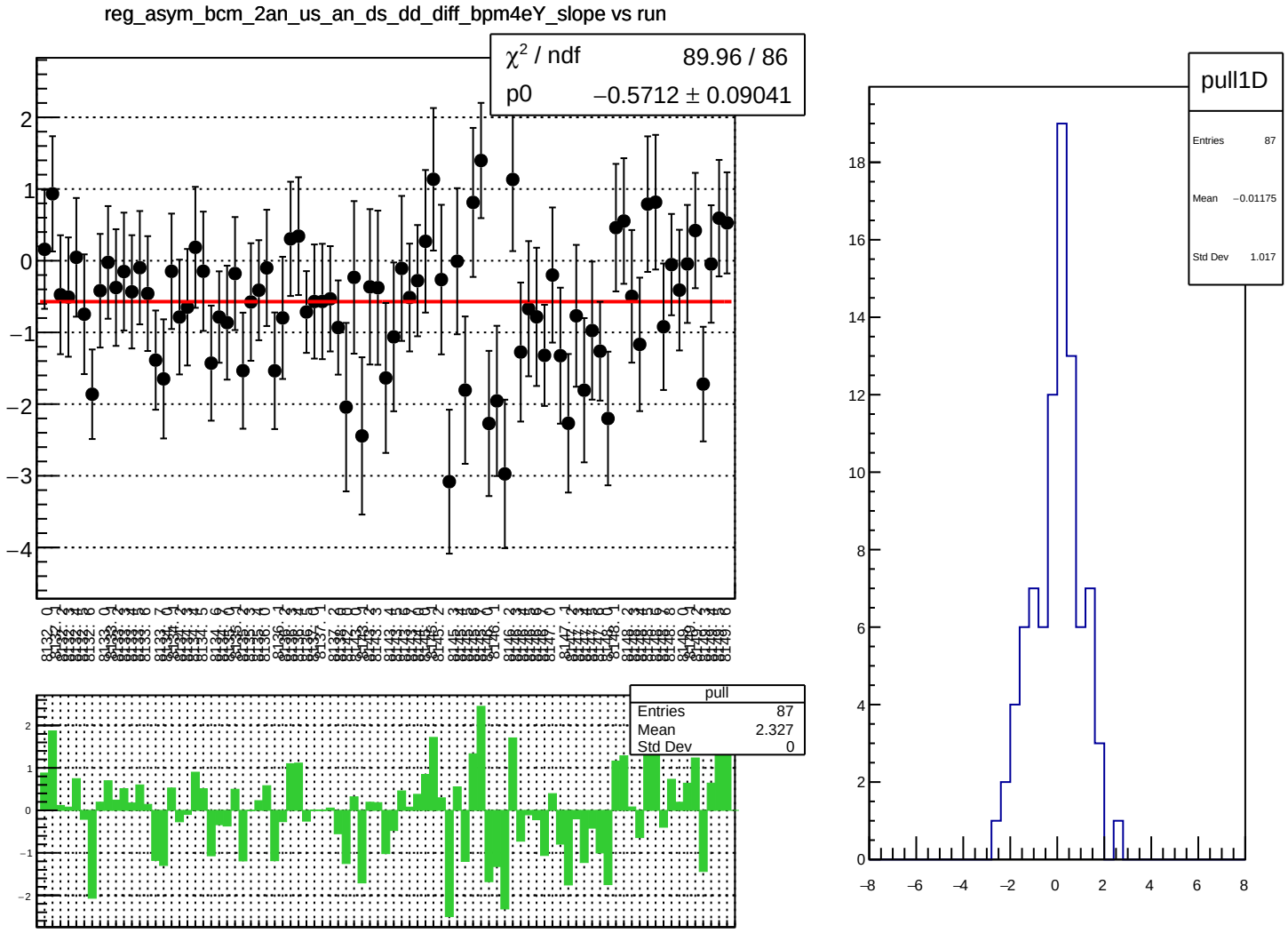

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 187 / 86
p0 0.111 ± 0.01056
pull
Entries 87
Mean 124.2
Std Dev 0
pull1D
Entries 87
Mean 0.1566
Std Dev 1.458

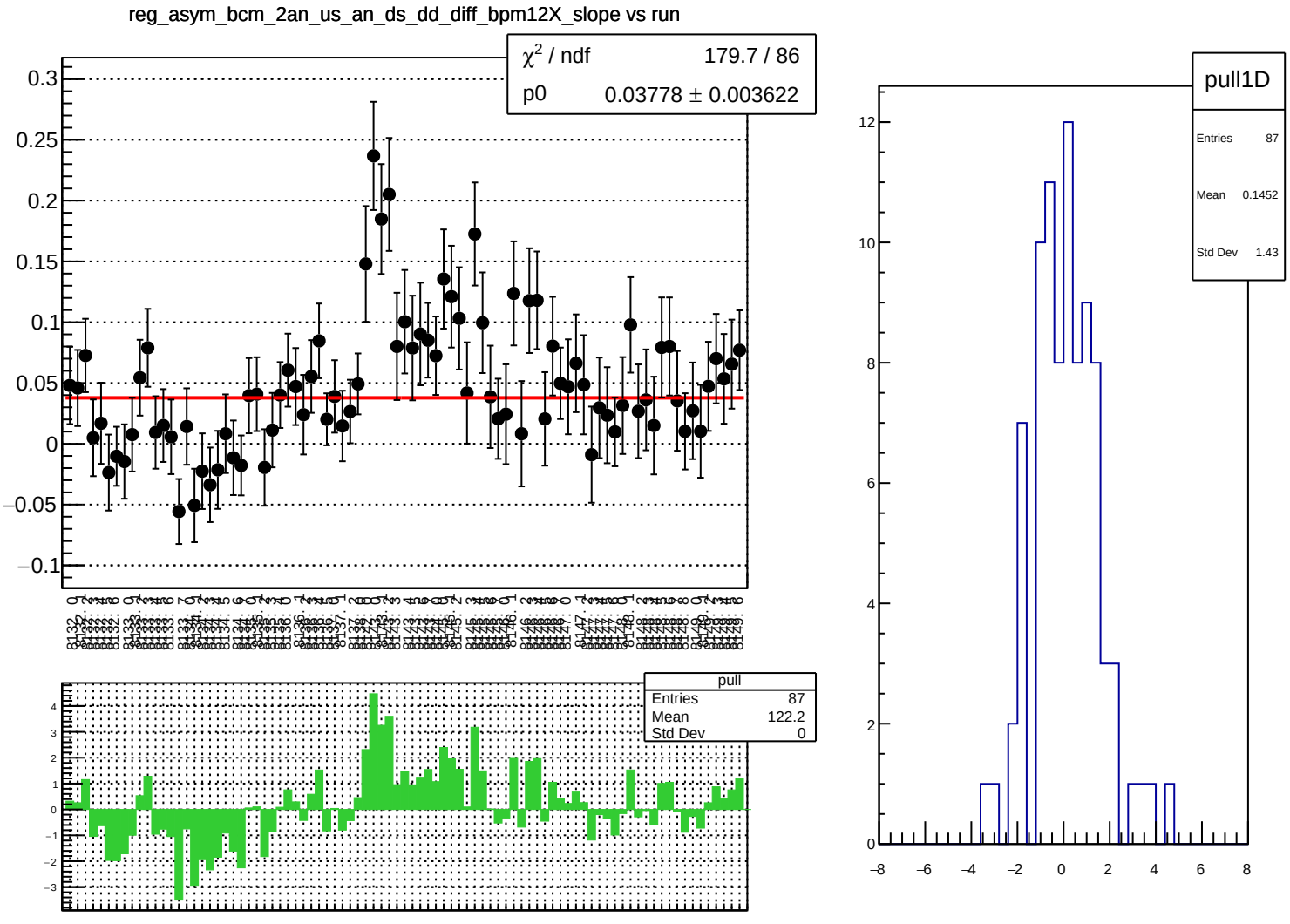

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 120.3 / 86
p0 0.8716 ± 0.04854
pull
Entries 87
Mean −235.7
Std Dev 0

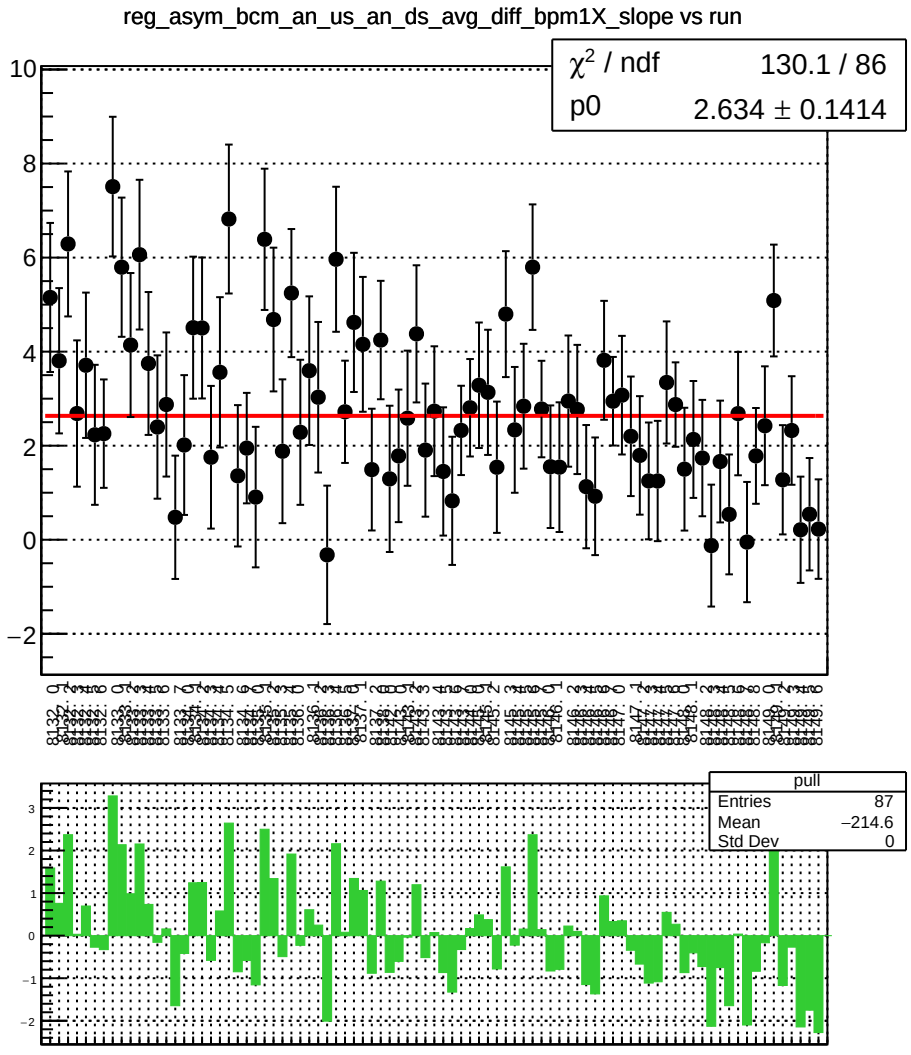

pull1D
Entries 87
Mean 0.04874
Std Dev 1.175

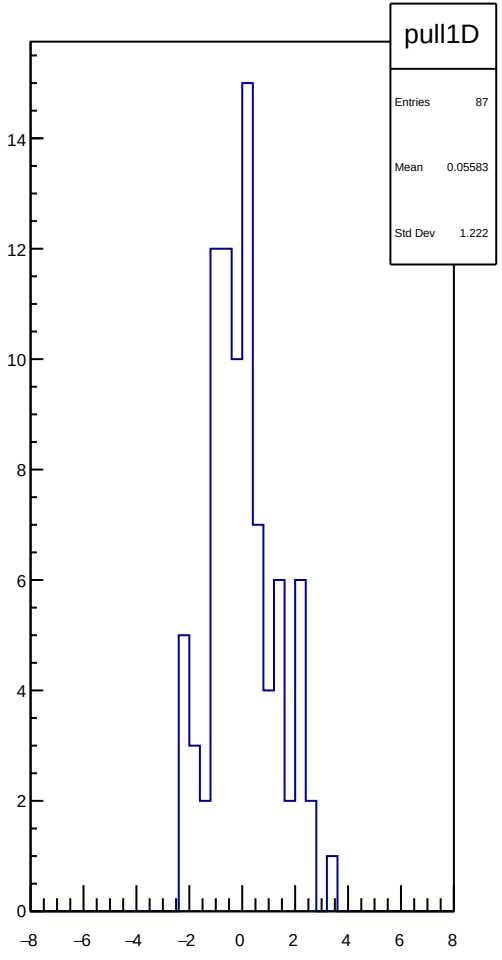

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 91.34 / 86
p0 0.3785 ± 0.08446
pull
Entries 87
Mean 108.1
Std Dev 0
pull1D
Entries 87
Mean 0.01316
Std Dev 1.025

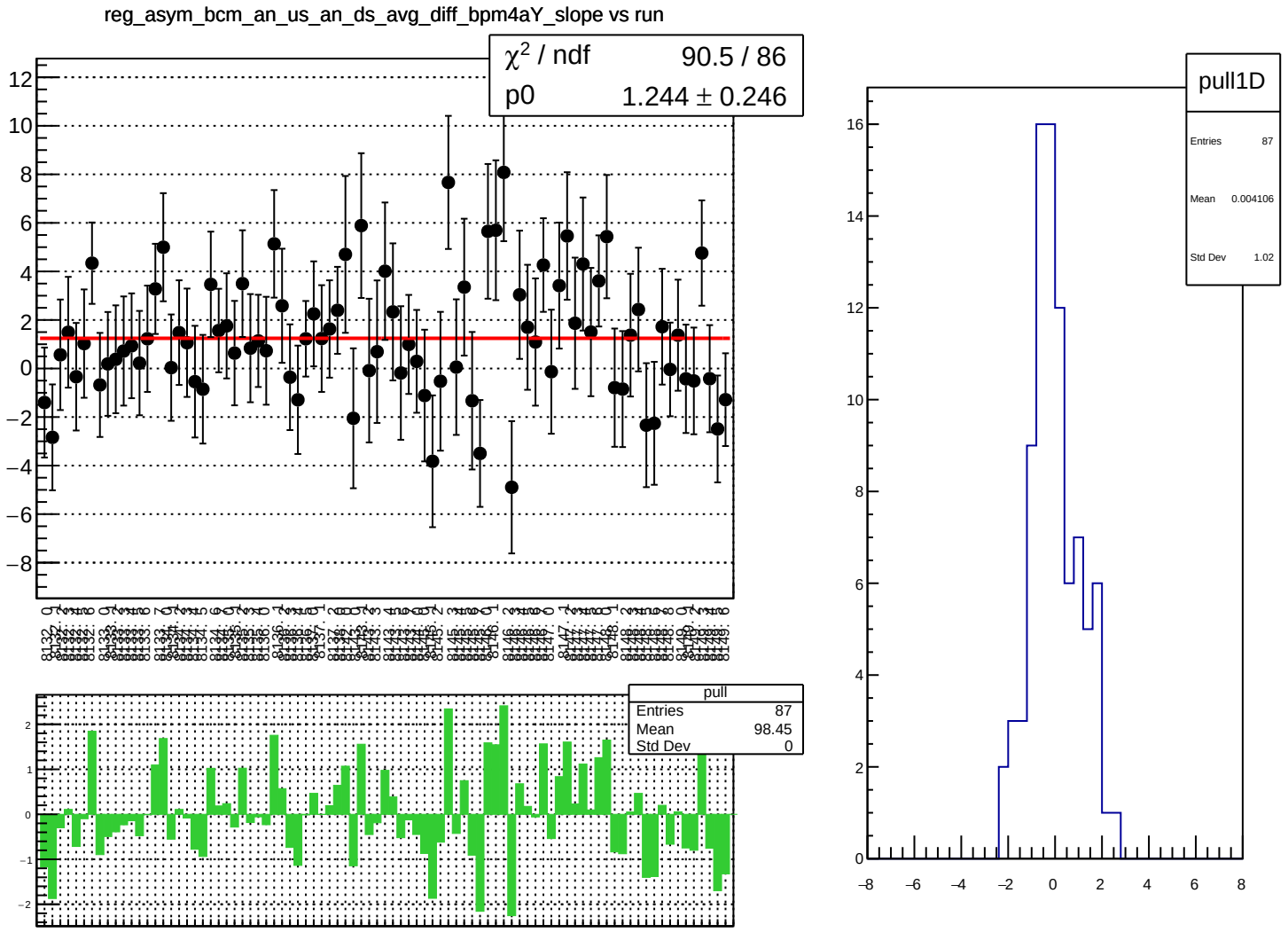

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 122.2 / 86
p0 −0.785 ± 0.04792
pull
Entries 87
Mean −428.8
Std Dev 0
pull1D
Entries 87
Mean −0.03091
Std Dev 1.185

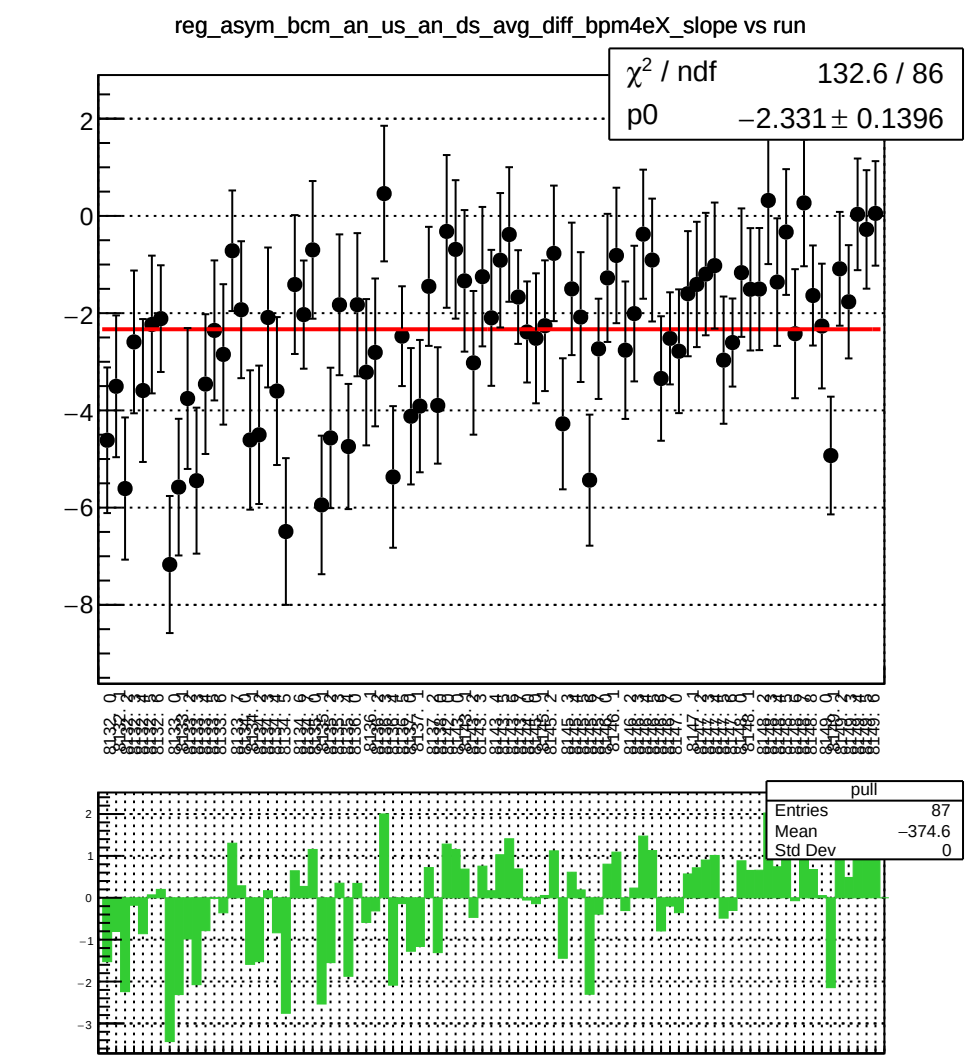

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 89.96 / 86
p0 −0.5712 ± 0.09041
pull
Entries 87
Mean 2.327
Std Dev 0
pull1D
Entries 87
Mean −0.01175
Std Dev 1.017

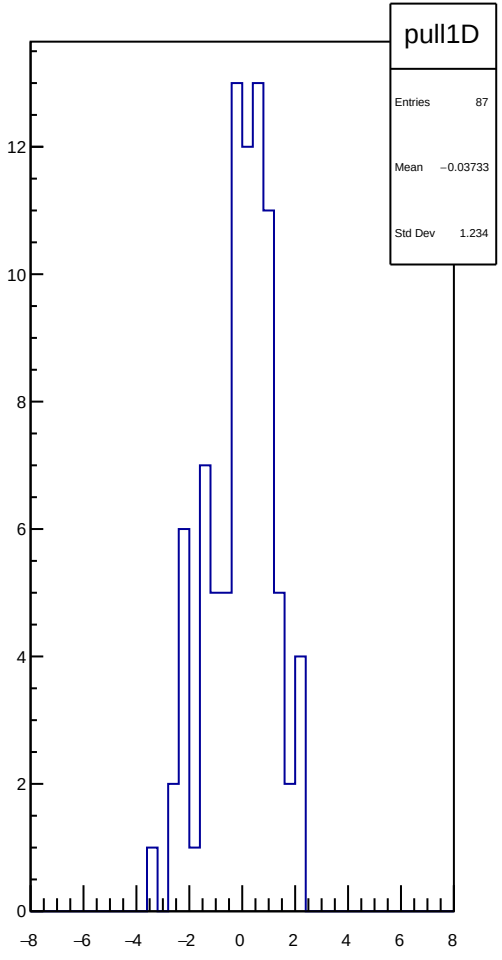

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 179.7 / 86
p0 0.03778 ± 0.003622
pull
Entries 87
Mean 122.2
Std Dev 0
pull1D
Entries 87
Mean 0.1452
Std Dev 1.43

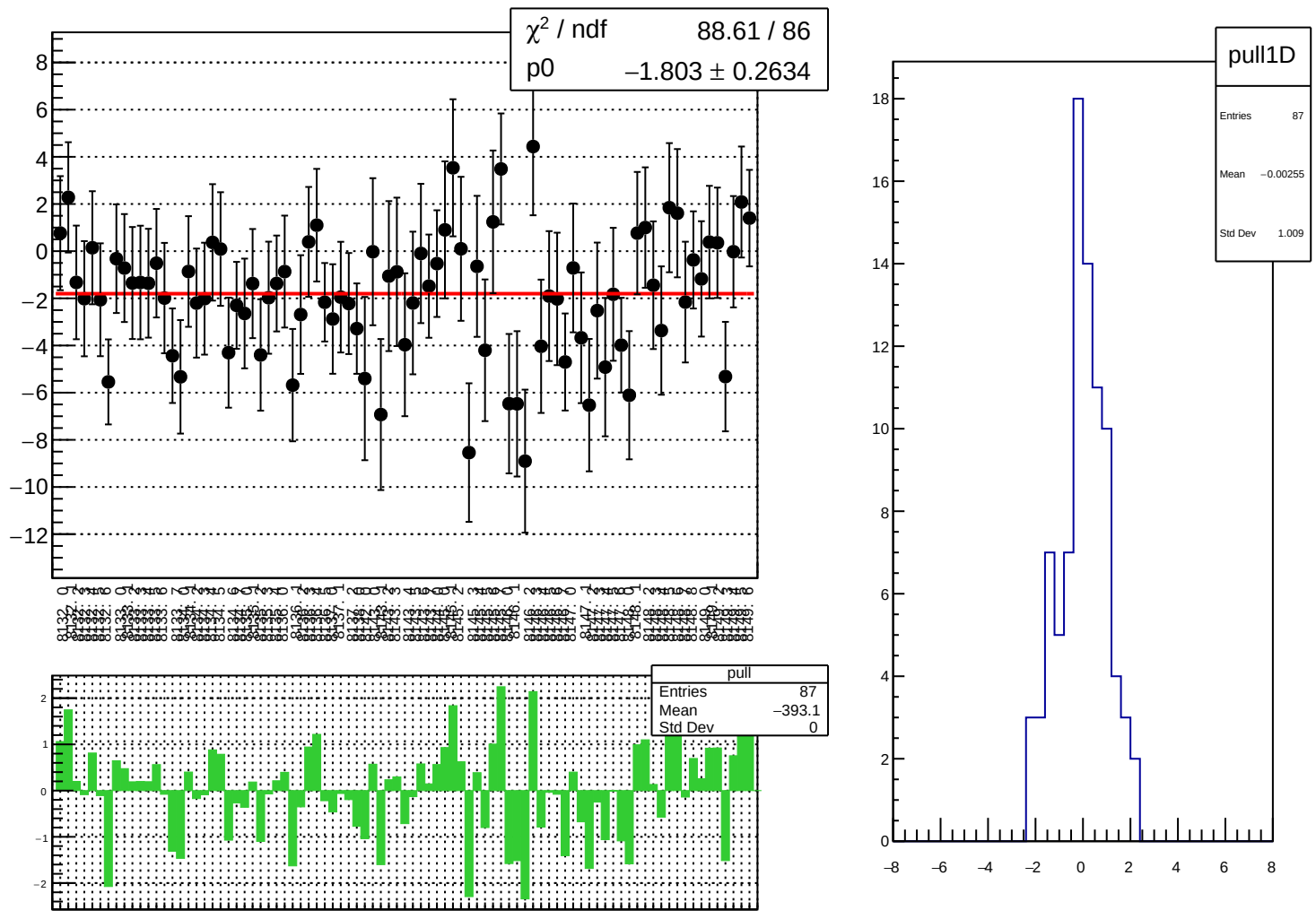

reg_asym_bcm_an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 130.1 / 86
p0 2.634 ± 0.1414
pull
Entries 87
Mean −214.6
Std Dev 0

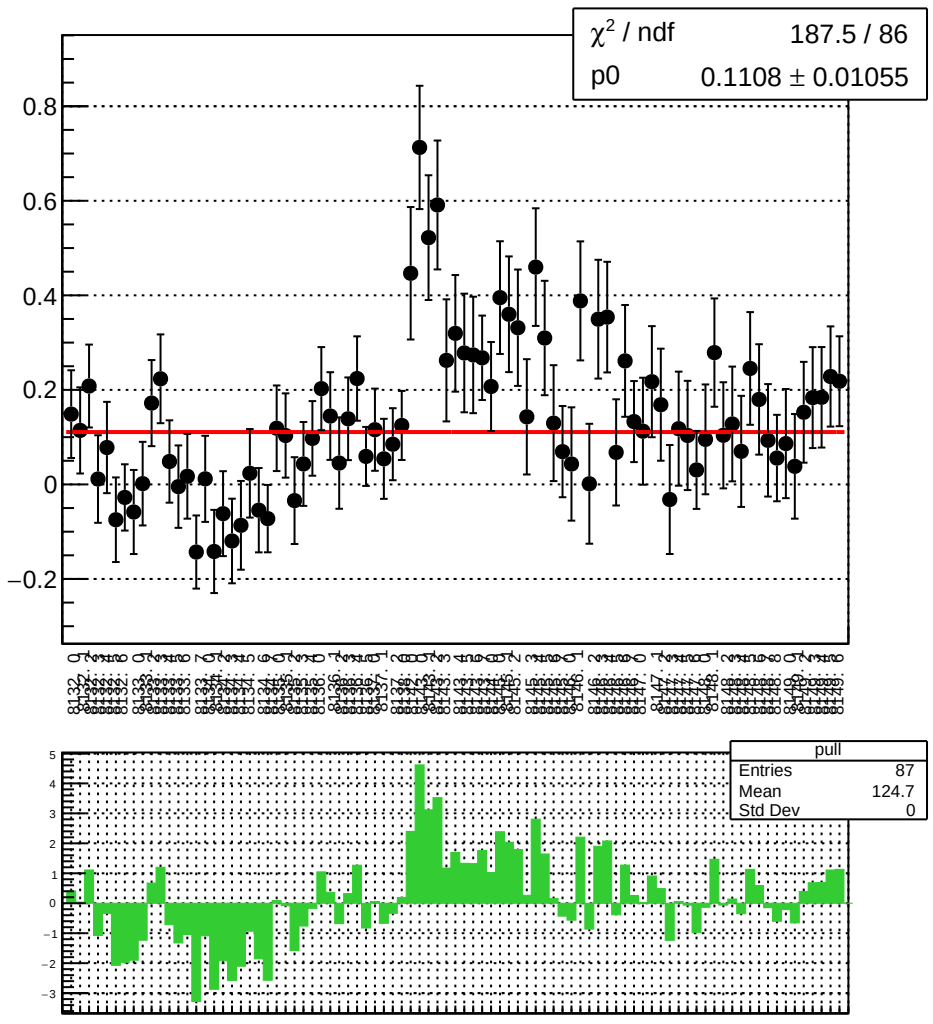

pull1D
Entries 87
Mean 0.05583
Std Dev 1.222

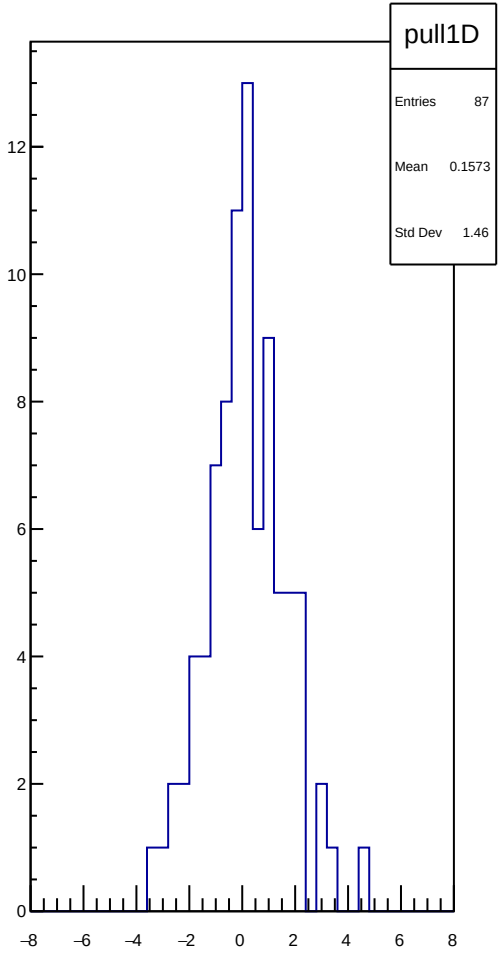

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 90.5 / 86
p0 1.244 ± 0.246
pull
Entries 87
Mean 98.45
Std Dev 0
pull1D
Entries 87
Mean 0.004106
Std Dev 1.02

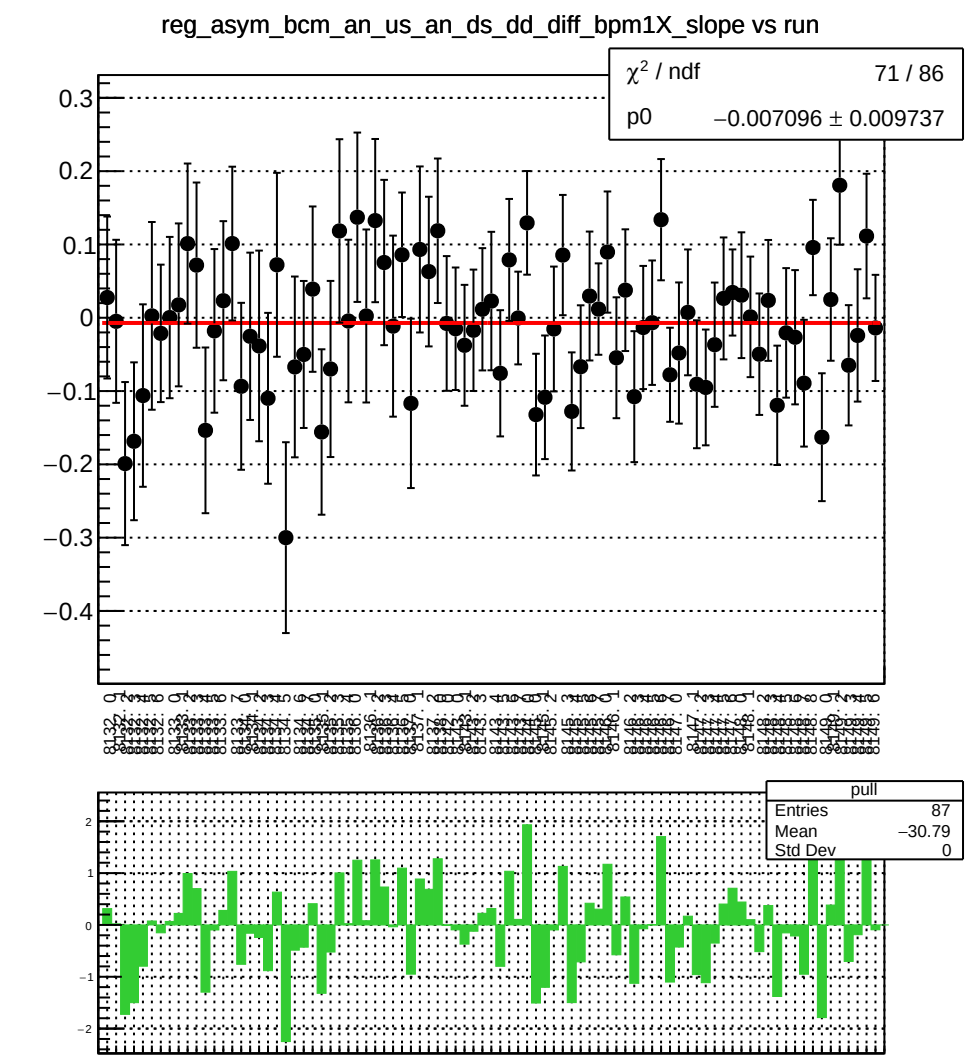

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 132.6 / 86
p0 −2.331 ± 0.1396
pull
Entries 87
Mean −374.6
Std Dev 0

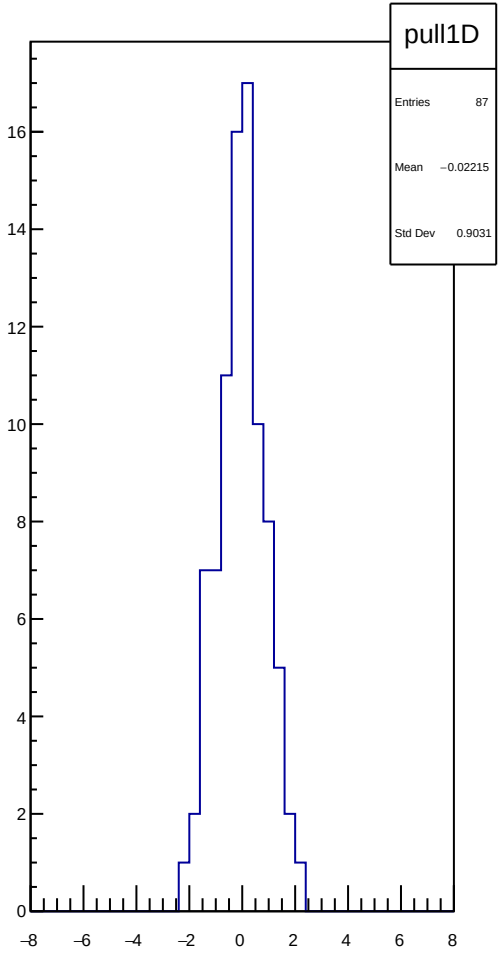

pull1D
Entries 87
Mean −0.03733
Std Dev 1.234

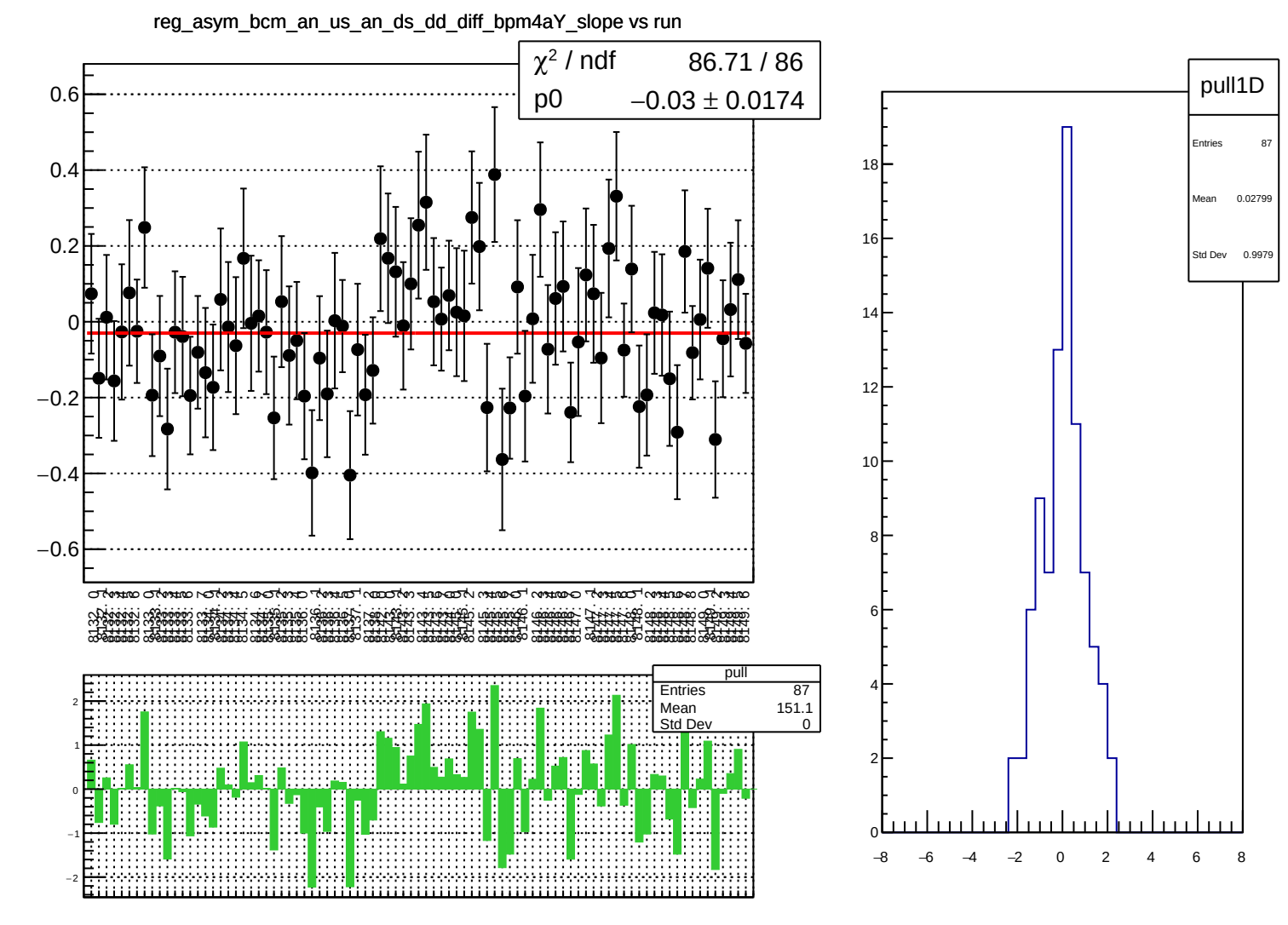

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 88.61 / 86
p0 −1.803 ± 0.2634
pull
Entries 87
Mean −393.1
Std Dev 0
pull1D
Entries 87
Mean −0.00255
Std Dev 1.009

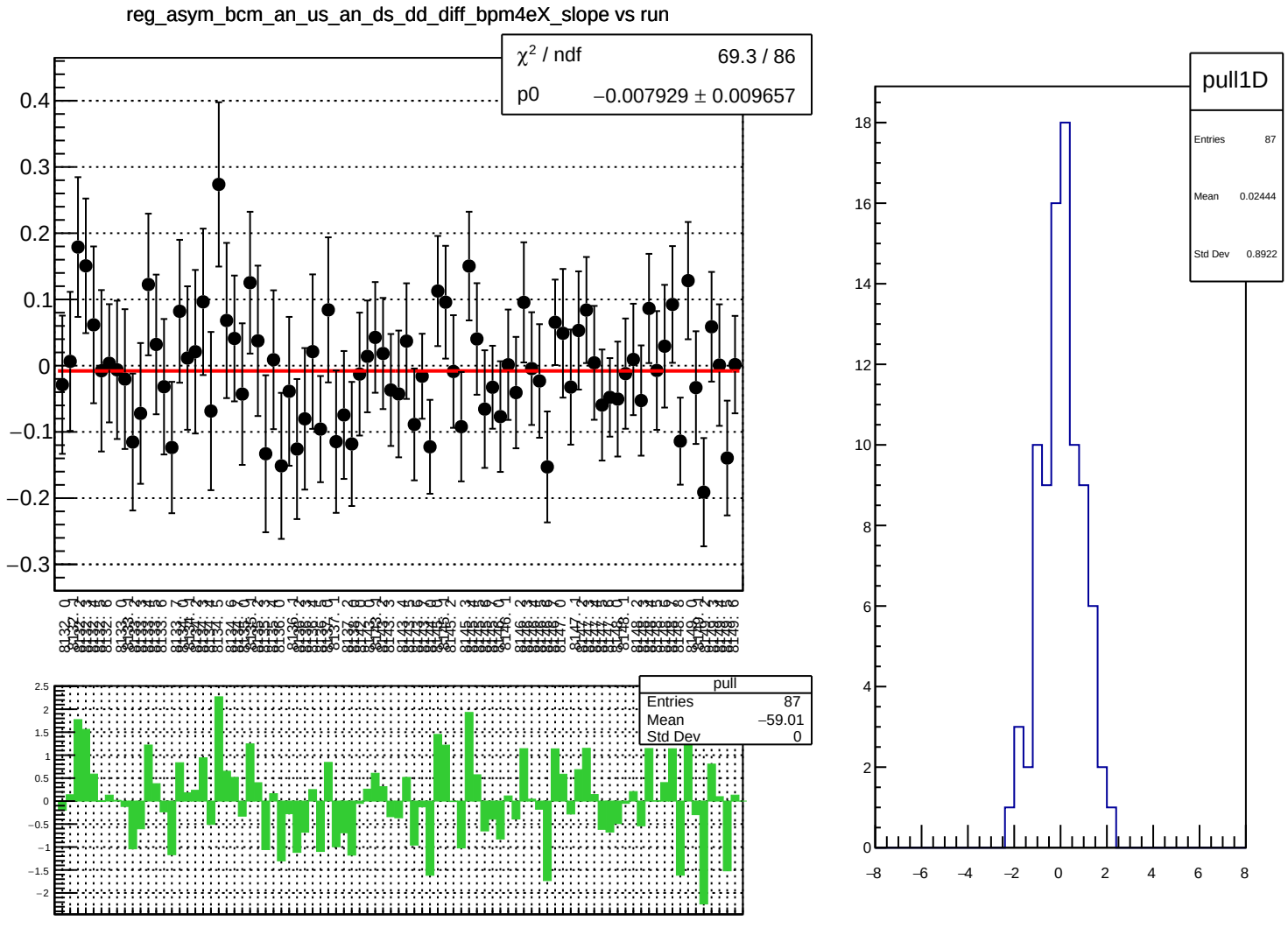

reg_asym_bcm_an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 187.5 / 86
p0 0.1108 ± 0.01055
pull
Entries 87
Mean 124.7
Std Dev 0

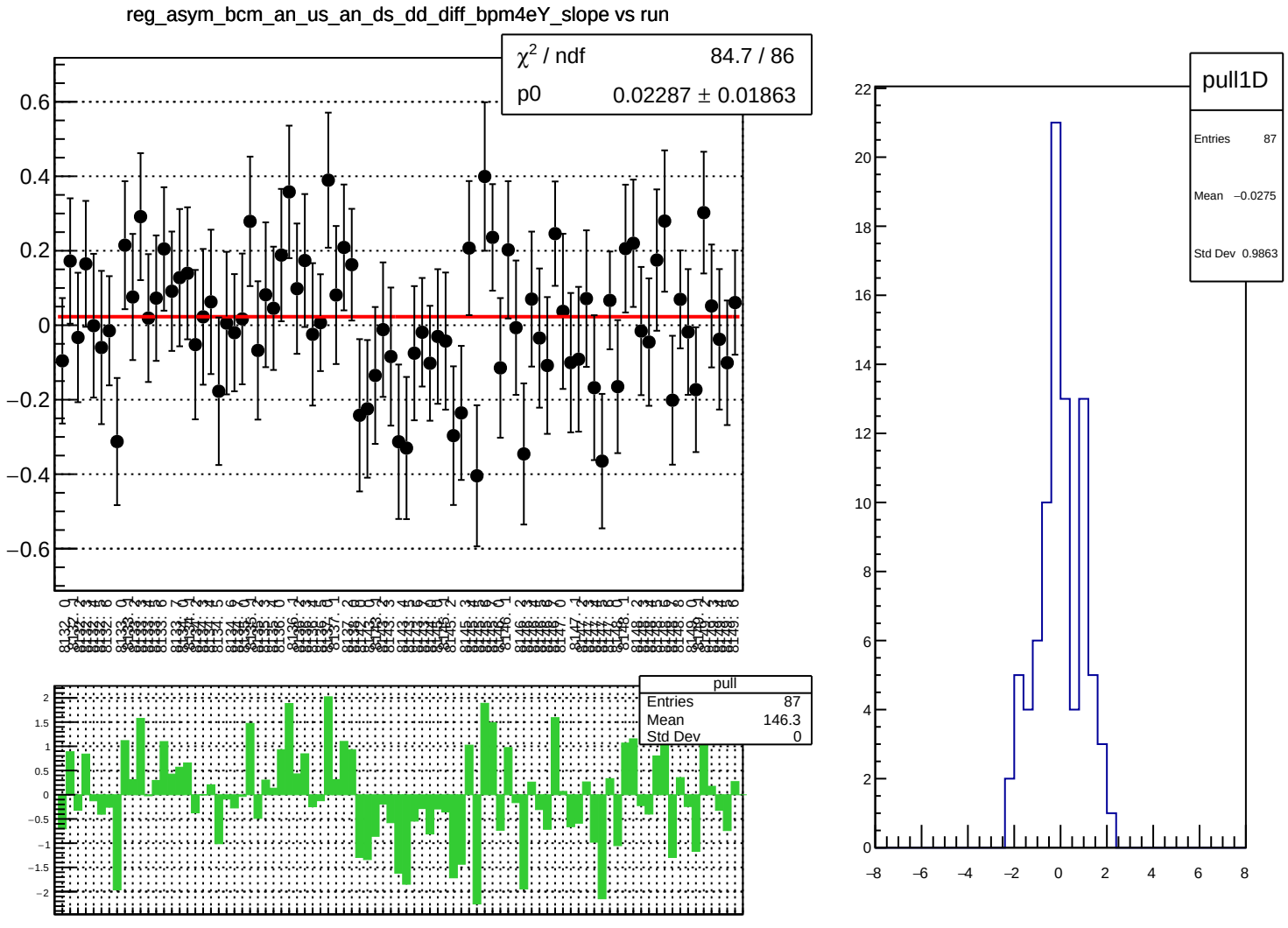

pull1D
Entries 87
Mean 0.1573
Std Dev 1.46

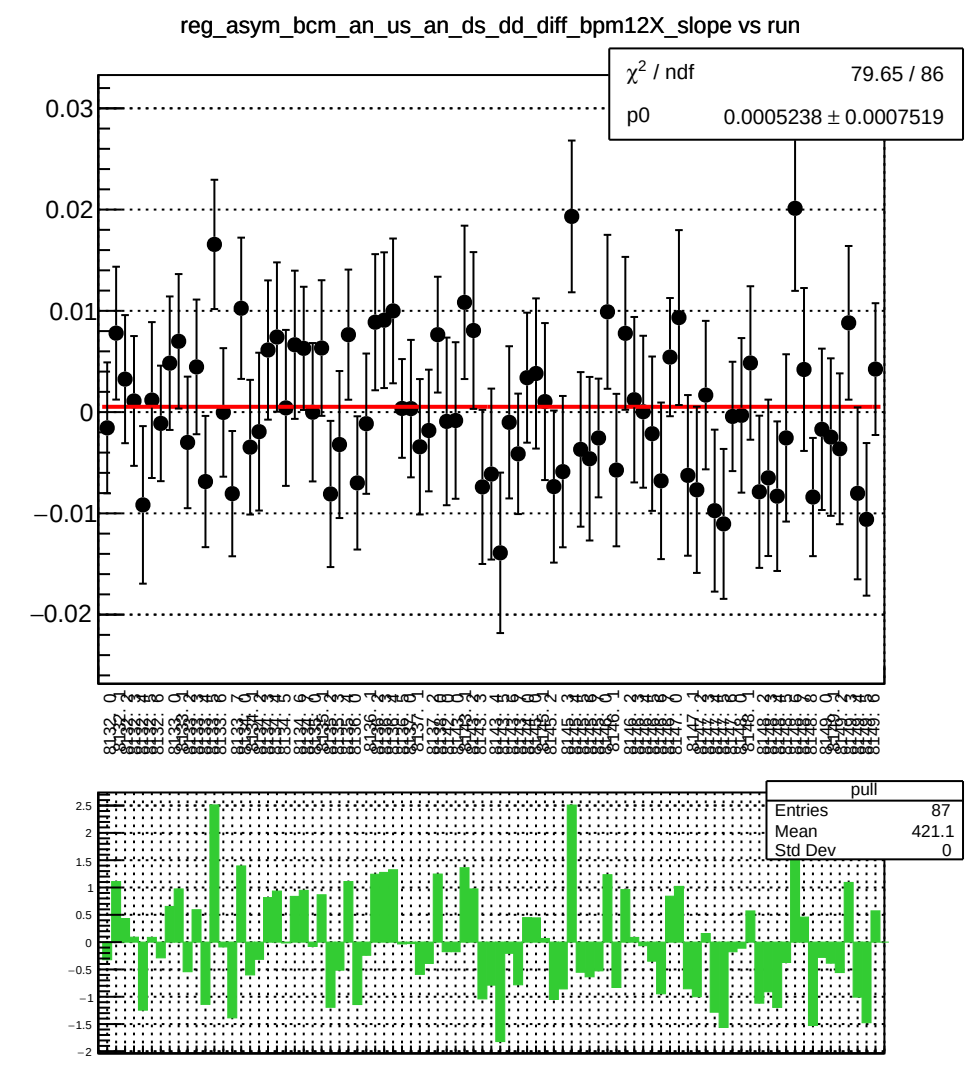

reg_asym_bcm_an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 71 / 86
p0 −0.007096 ± 0.009737
pull
Entries 87
Mean −30.79
Std Dev 0

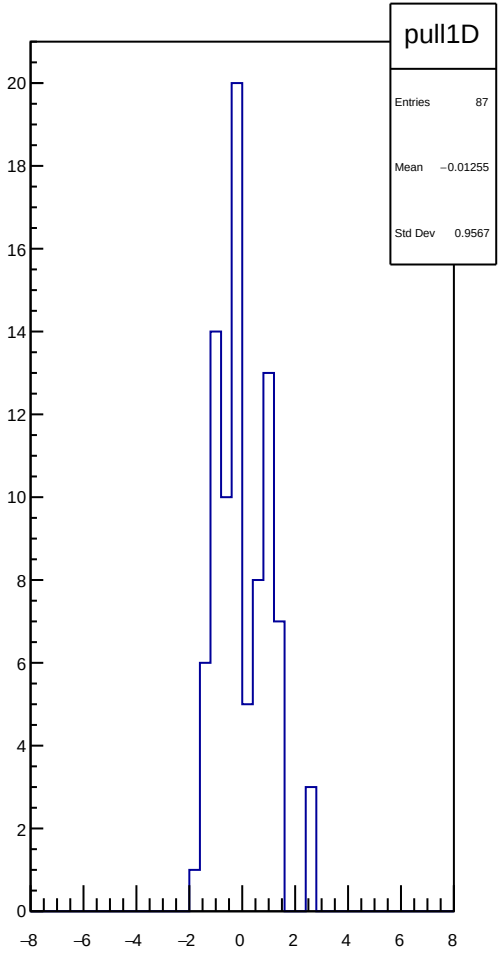

pull1D
Entries 87
Mean −0.02215
Std Dev 0.9031

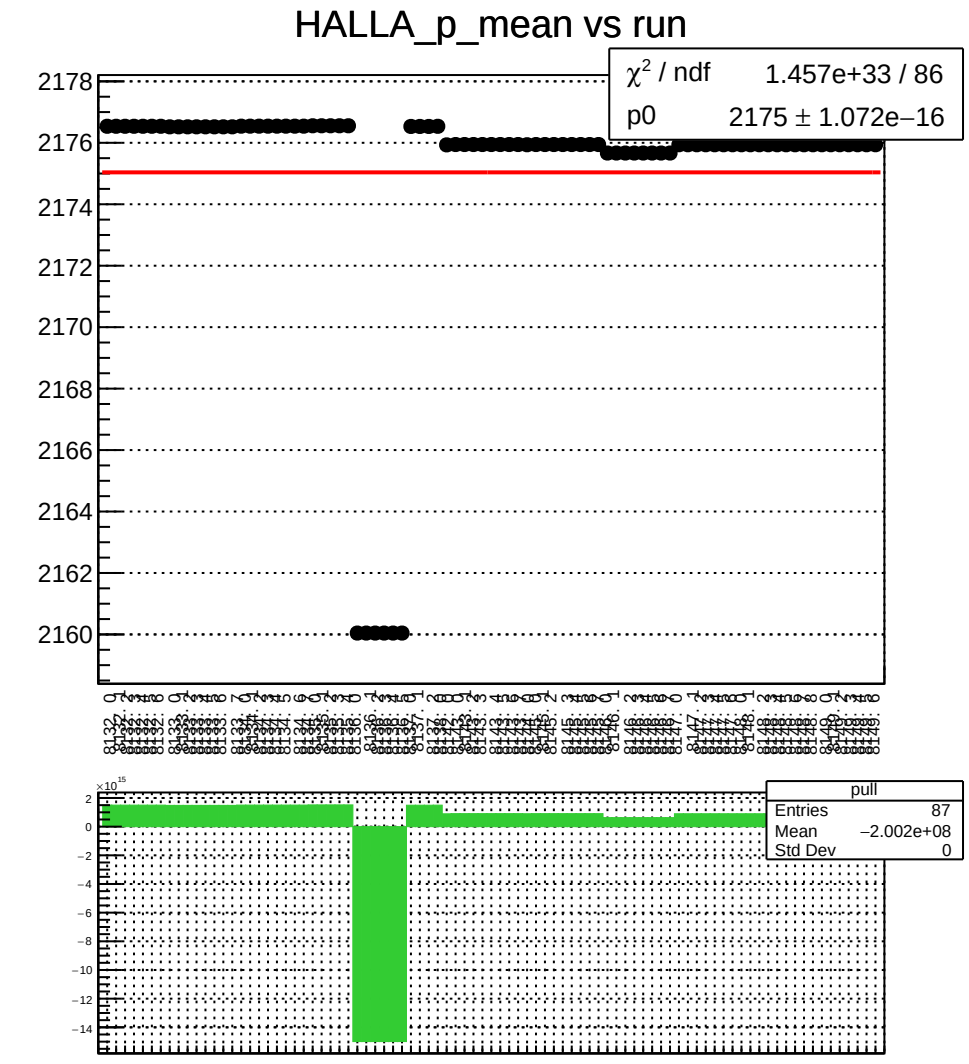

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 86.71 / 86
p0 −0.03 ± 0.0174
pull
Entries 87
Mean 151.1
Std Dev 0
pull1D
Entries 87
Mean 0.02799
Std Dev 0.9979

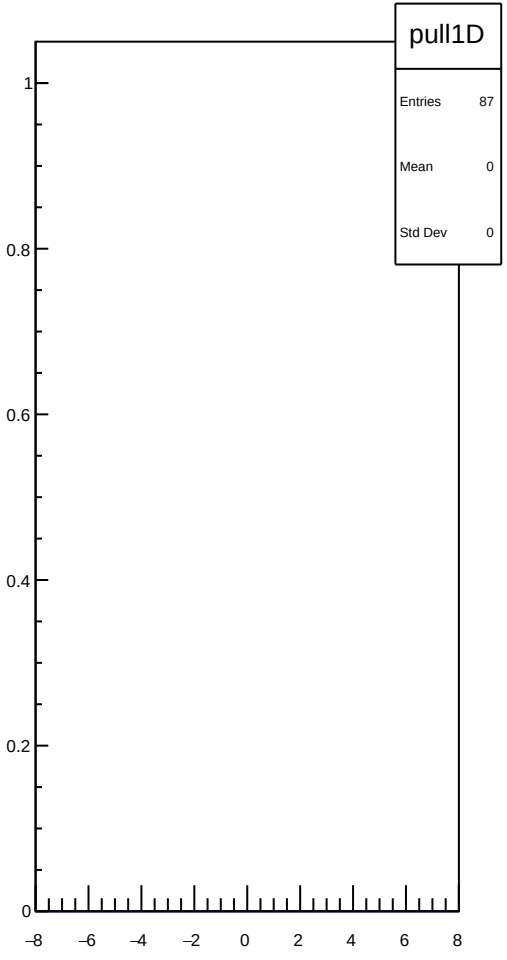

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 69.3 / 86
p0 −0.007929 ± 0.009657
pull
Entries 87
Mean −59.01
Std Dev 0
pull1D
Entries 87
Mean 0.02444
Std Dev 0.8922

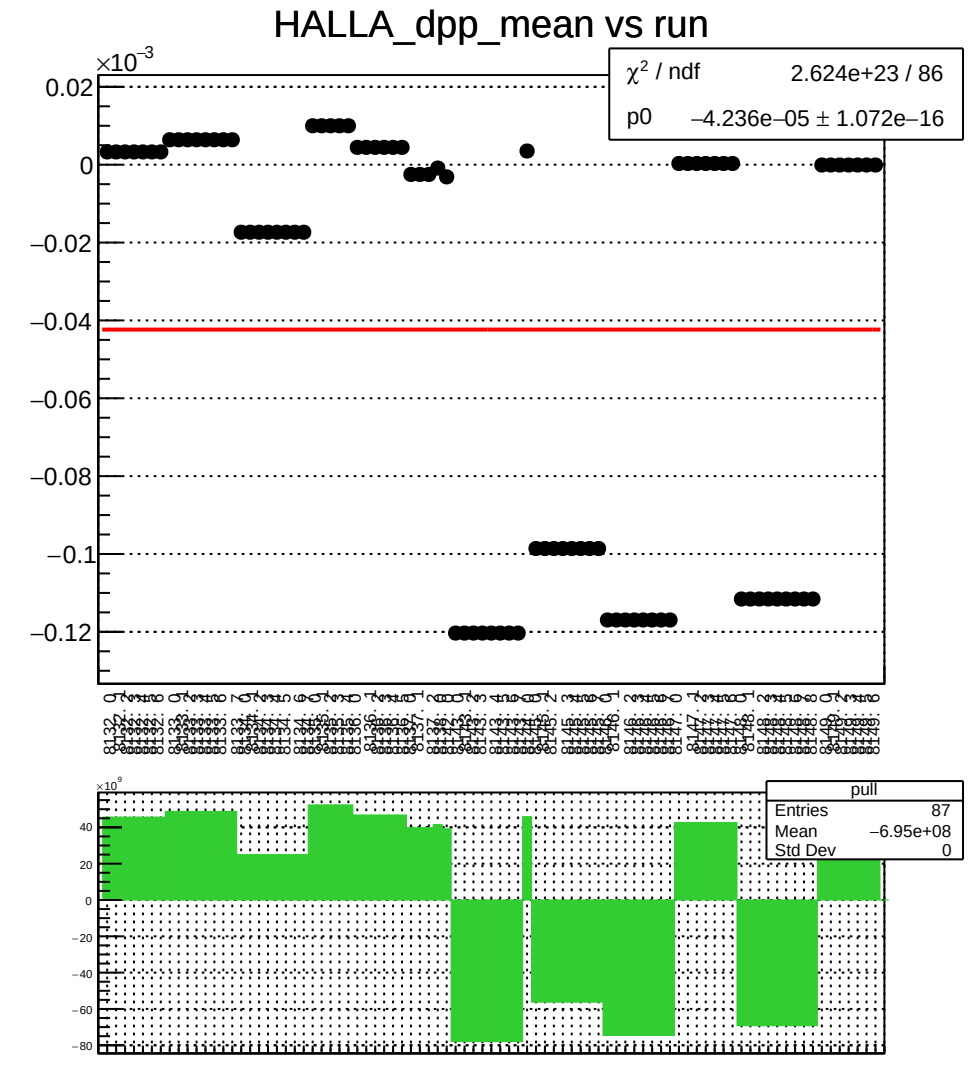

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 84.7 / 86
p0 0.02287 ± 0.01863
pull
Entries 87
Mean 146.3
Std Dev 0
pull1D
Entries 87
Mean −0.0275
Std Dev 0.9863

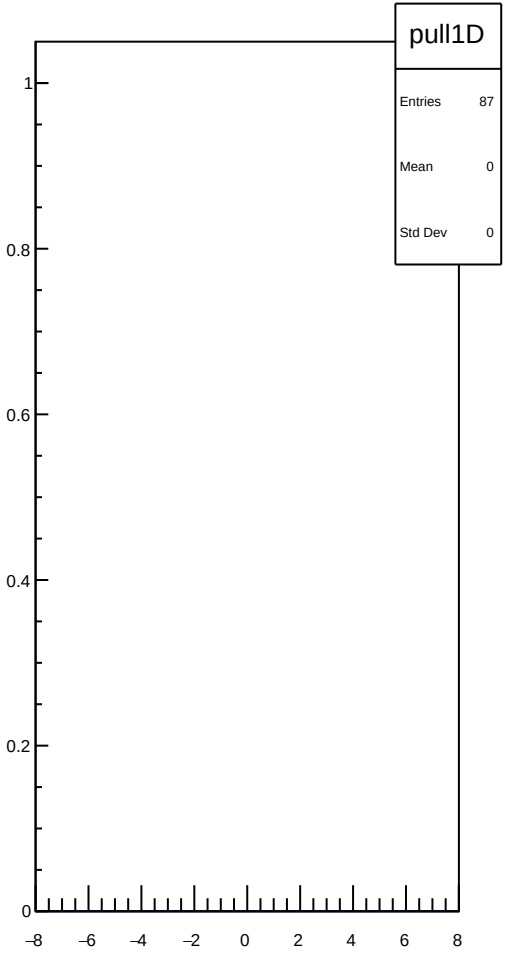

reg_asym_bcm_an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 79.65 / 86
p0 0.0005238 ± 0.0007519
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 87
Mean 421.1
Std Dev 0

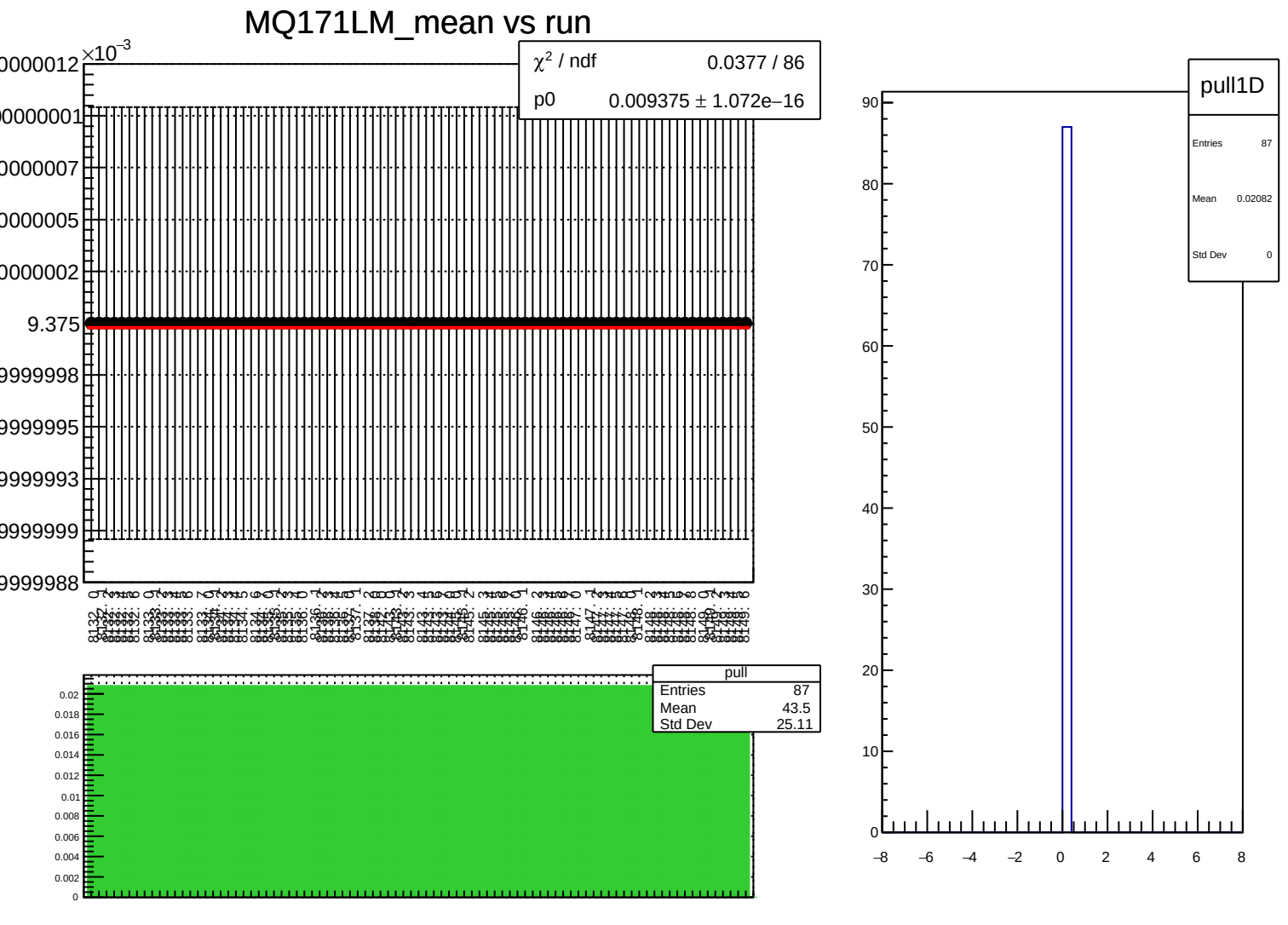

pull1D
Entries 87
Mean −0.01255
Std Dev 0.9567
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

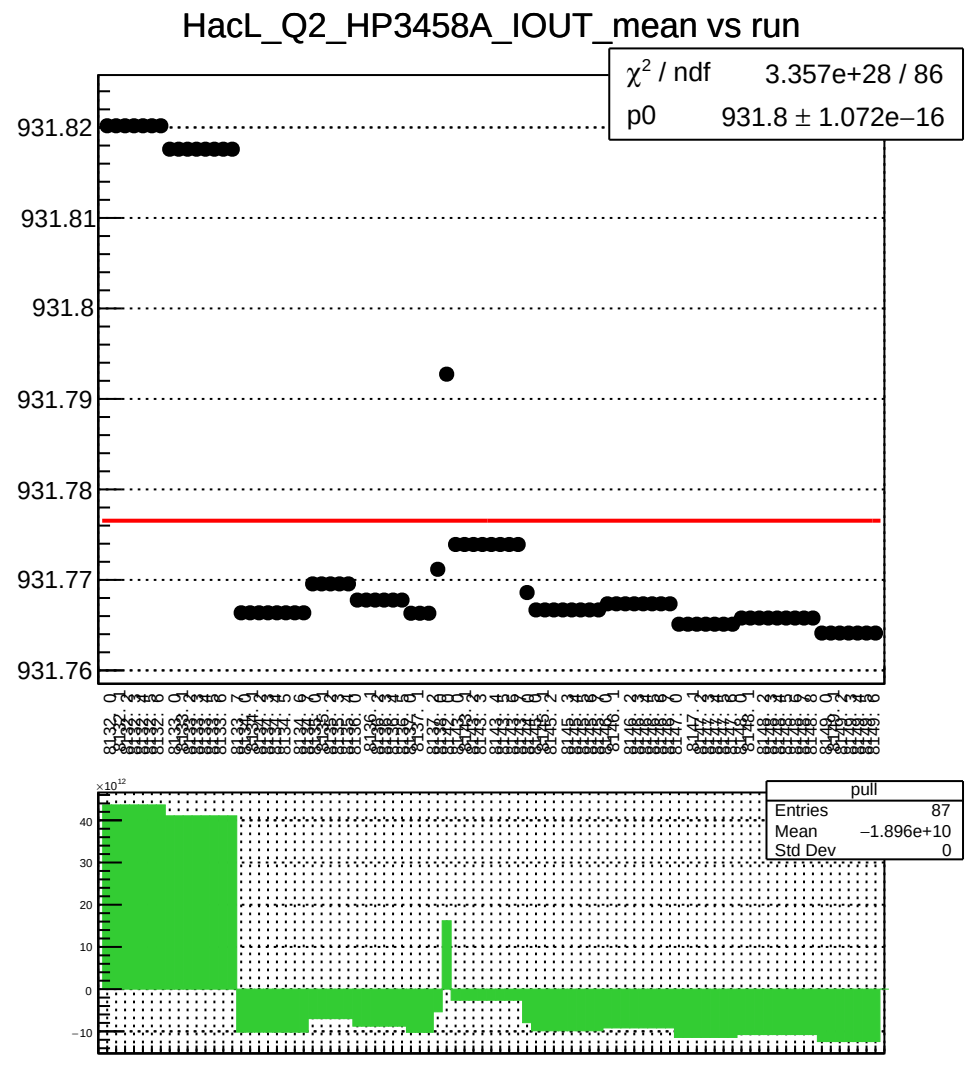

HALLA_p_mean vs run
χ² / ndf 1.457e+33 / 86
p0 2175 ± 1.072e−16
2178
2176
2174
2172
2170
2168
2166
2164
2162
2160
pull
Entries 87
Mean −2.002e+08
Std Dev 0
×10¹⁵
2
0
−2
−4
−6
−8
−10
−12
−14

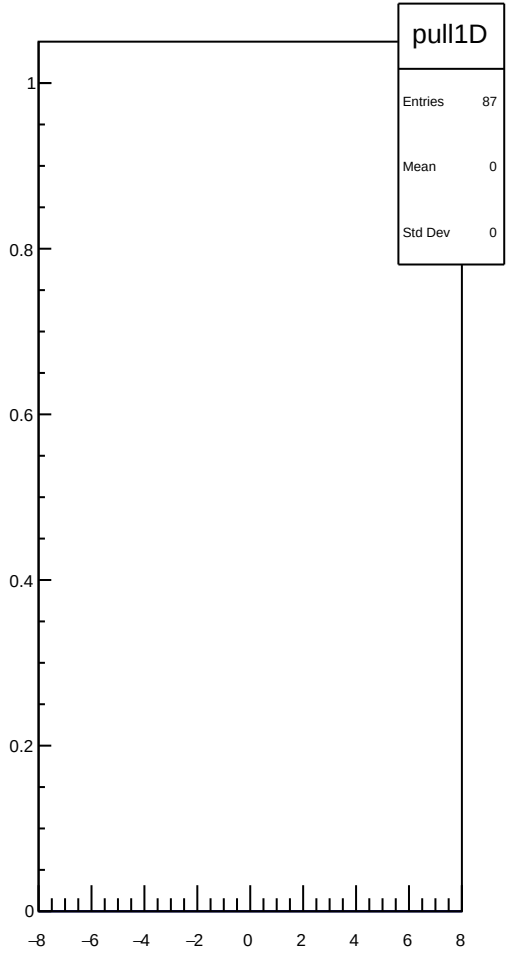

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

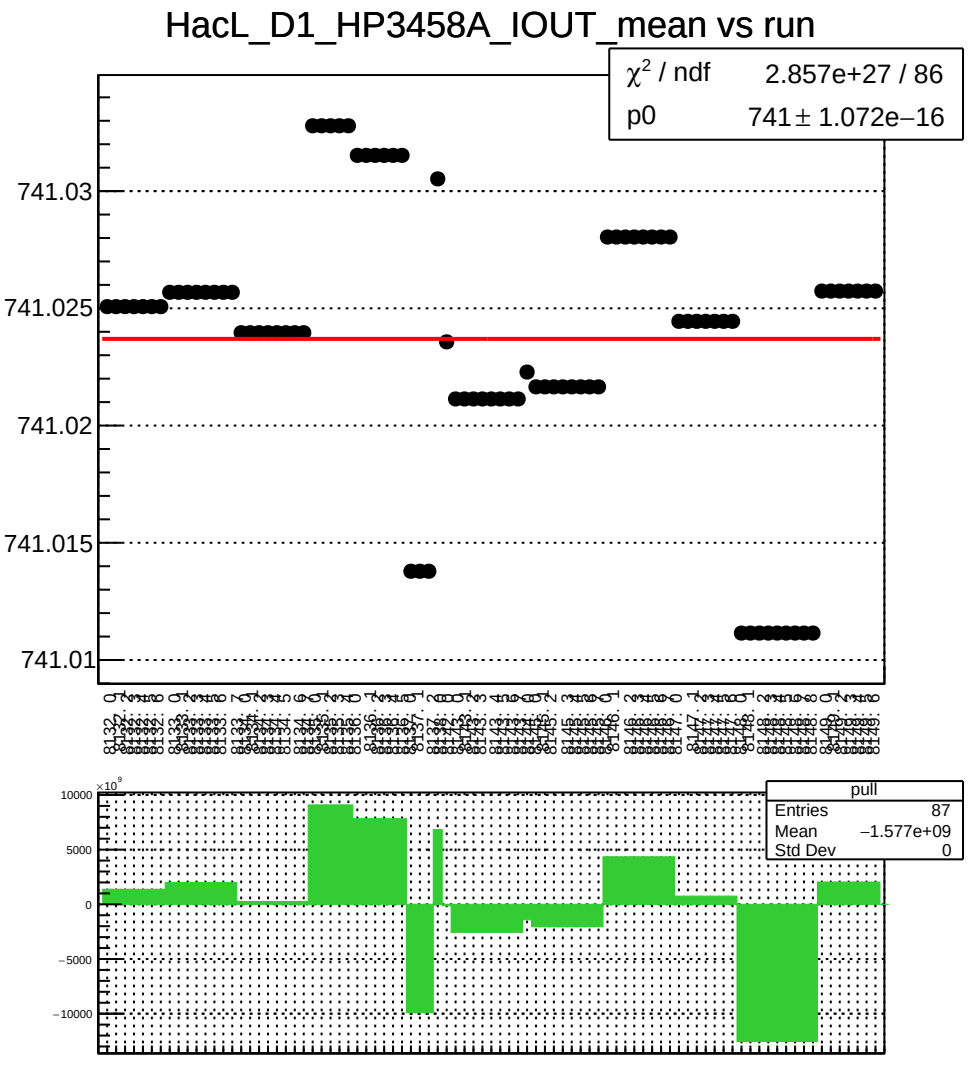

HALLA_dpp_mean vs run
×10⁻³
χ² / ndf 2.624e+23 / 86
p0 −4.236e−05 ± 1.072e−16
pull
Entries 87
Mean −6.95e+08
Std Dev 0
×10⁹

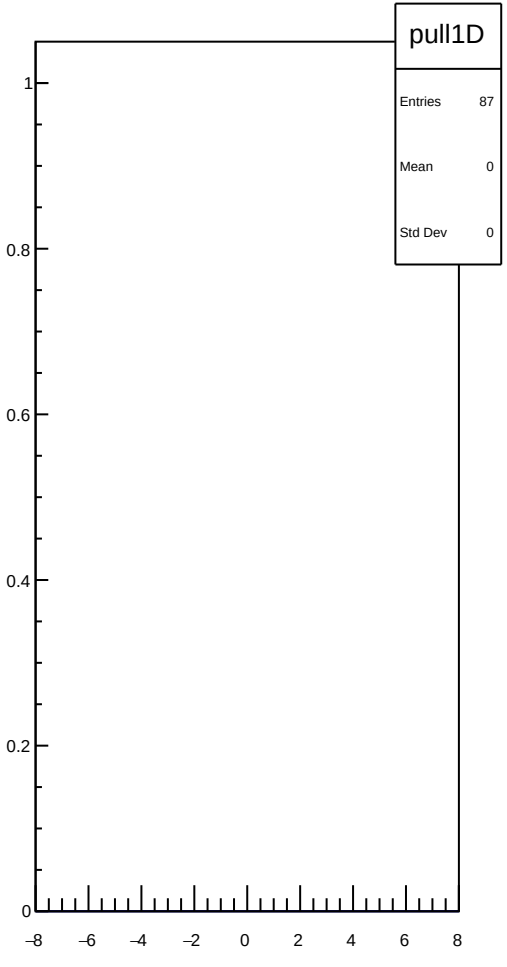

pull1D
Entries 87
Mean 0
Std Dev 0

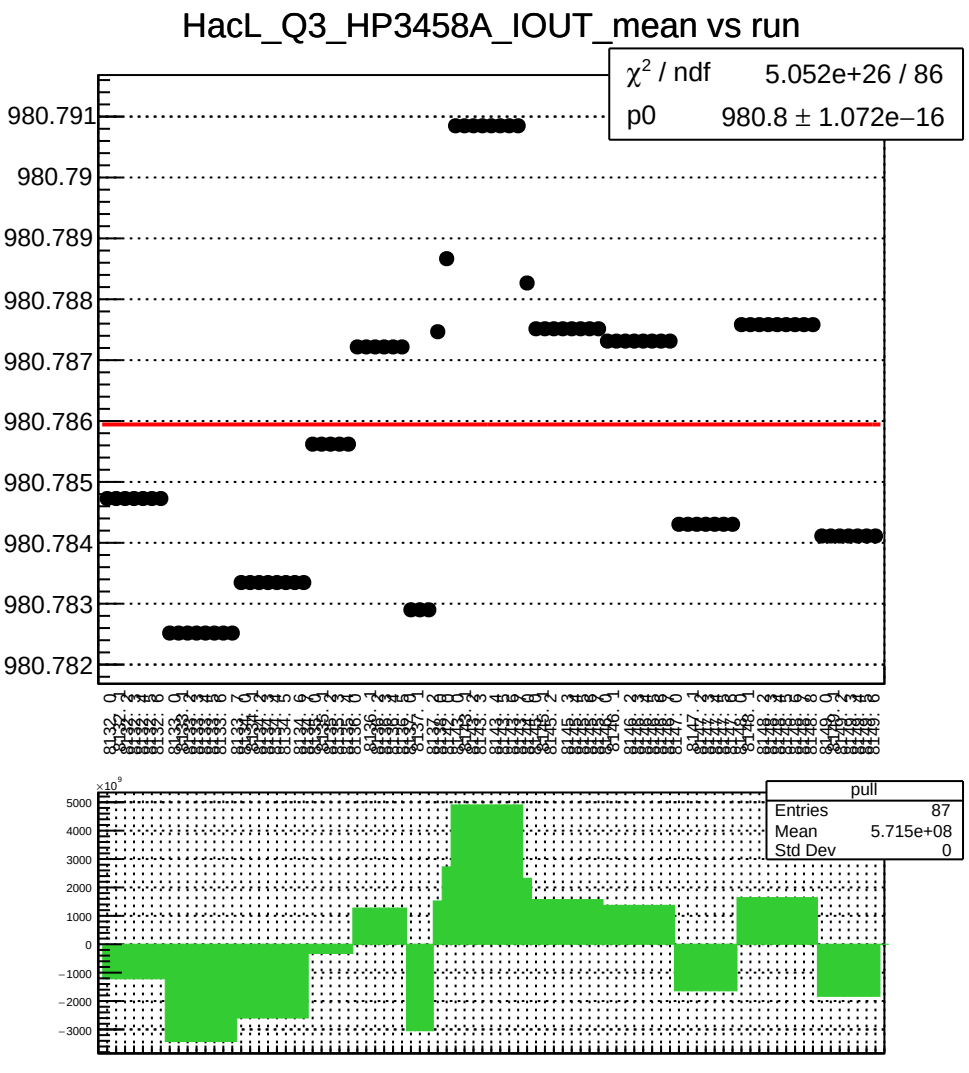

MQ171LM_mean vs run
χ² / ndf 0.0377 / 86
p0 0.009375 ± 1.072e−16
×10⁻³
9.375
pull
Entries 87
Mean 43.5
Std Dev 25.11
pull1D
Entries 87
Mean 0.02082
Std Dev 0

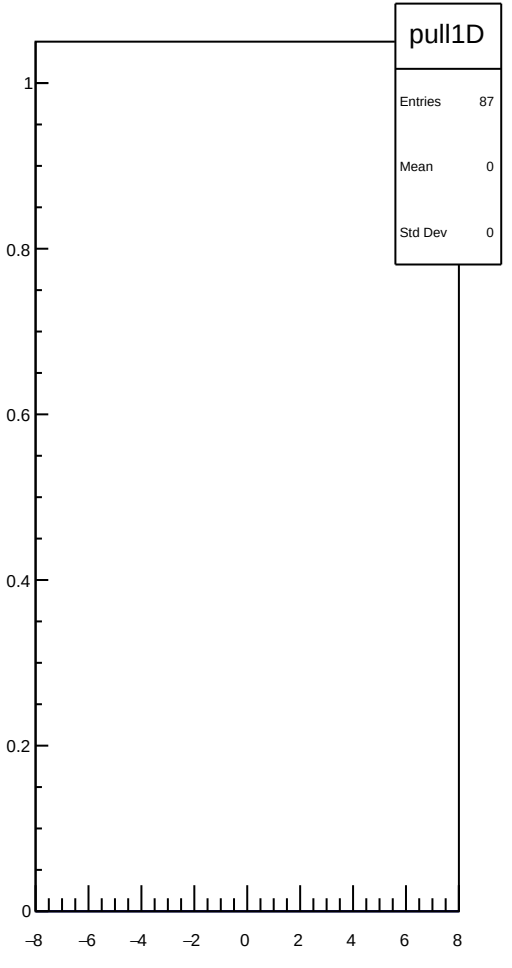

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 3.357e+28 / 86
p0 931.8 ± 1.072e−16
931.82
931.81
931.8
931.79
931.78
931.77
931.76
pull
Entries 87
Mean −1.896e+10
Std Dev 0
×10¹²
40
30
20
10
0
−10

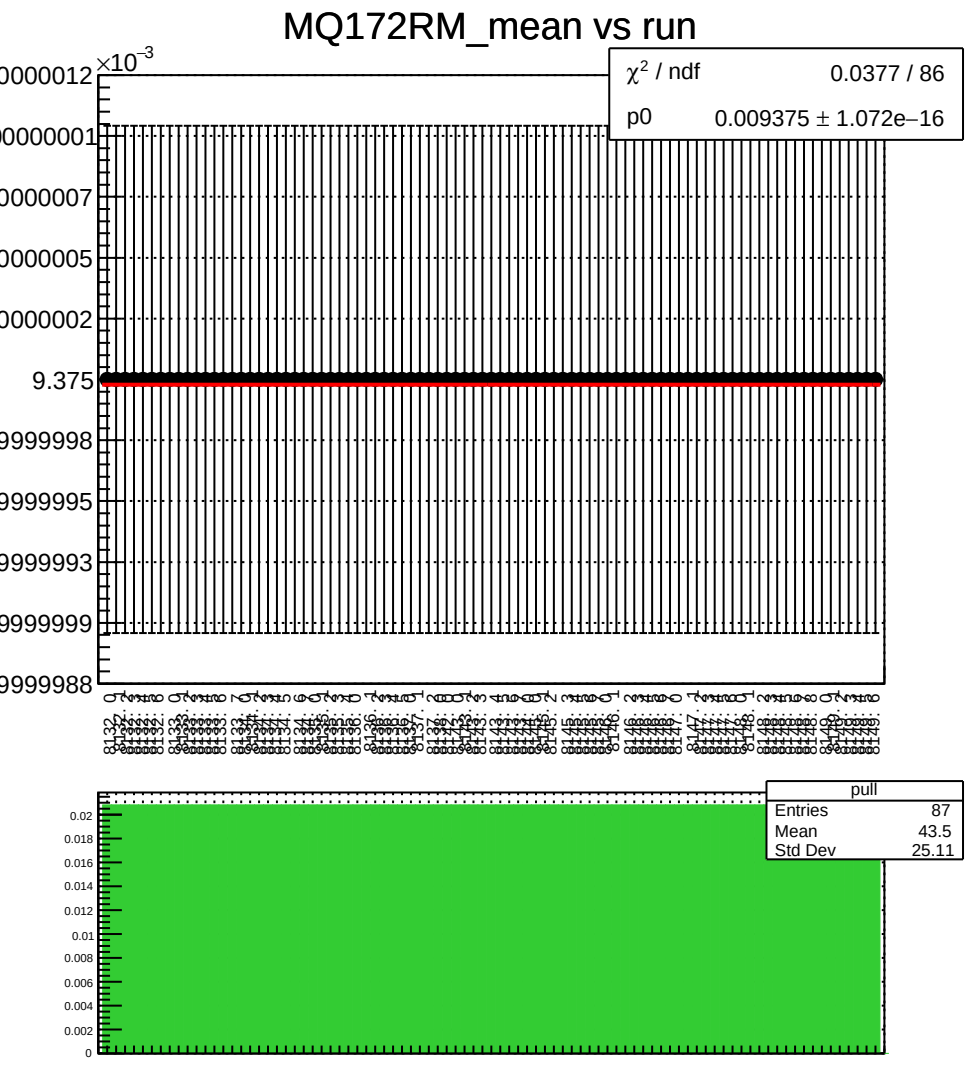

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

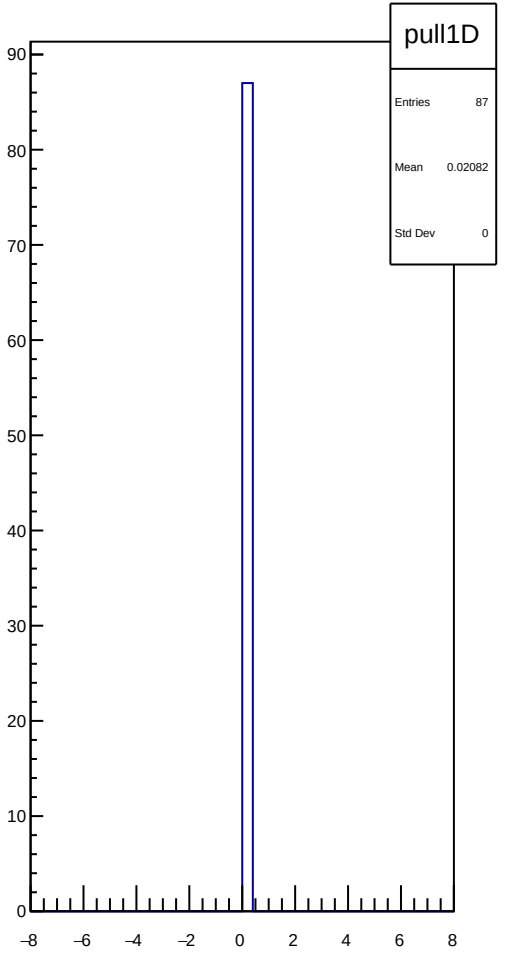

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 2.857e+27 / 86
p0 741 ± 1.072e−16
741.03
741.025
741.02
741.015
741.01
pull
Entries 87
Mean −1.577e+09
Std Dev 0
×10⁹
10000
5000
0
−5000
−10000

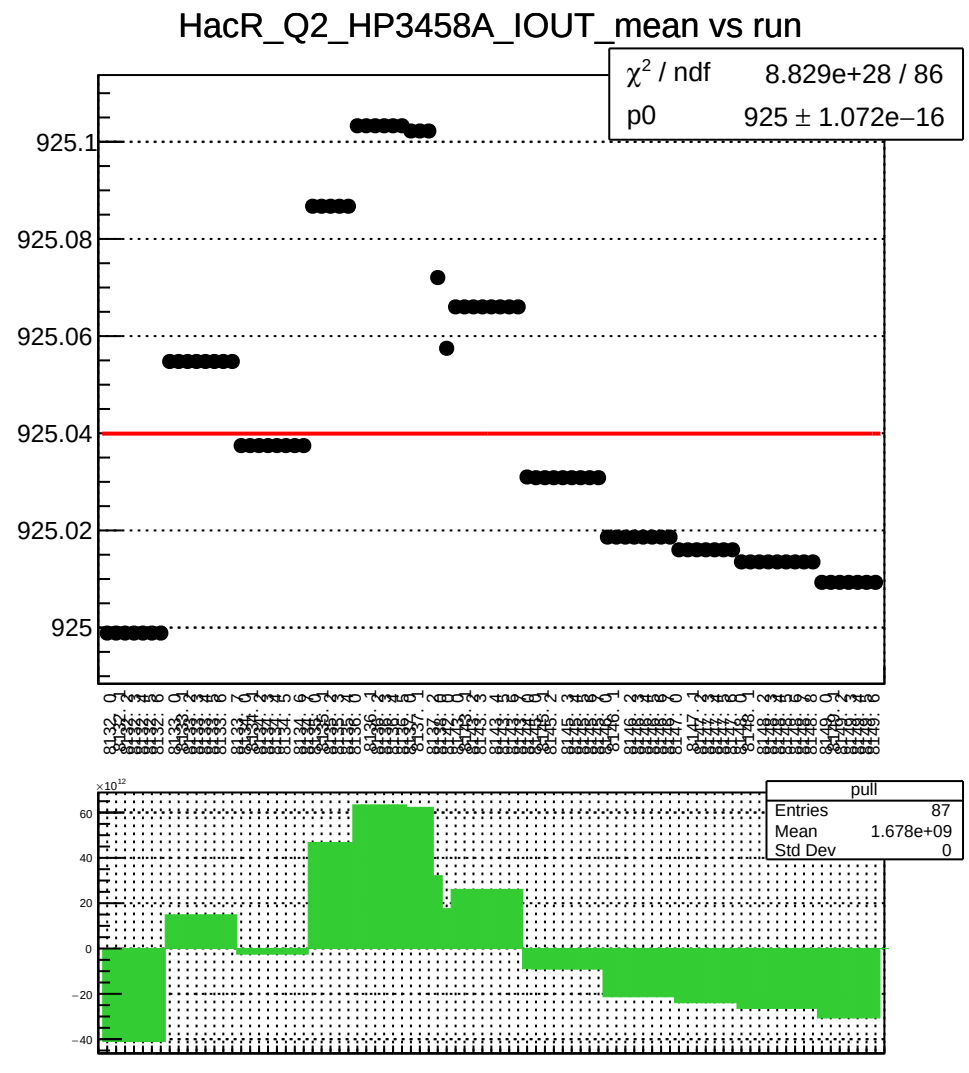

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

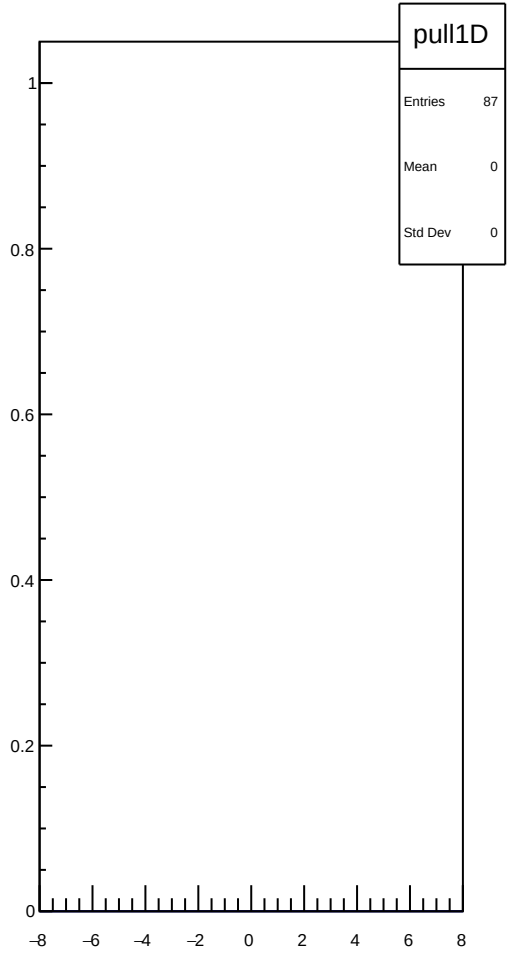

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 5.052e+26 / 86
p0 980.8 ± 1.072e−16
980.791
980.79
980.789
980.788
980.787
980.786
980.785
980.784
980.783
980.782
×10⁹
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 87
Mean 5.715e+08
Std Dev 0

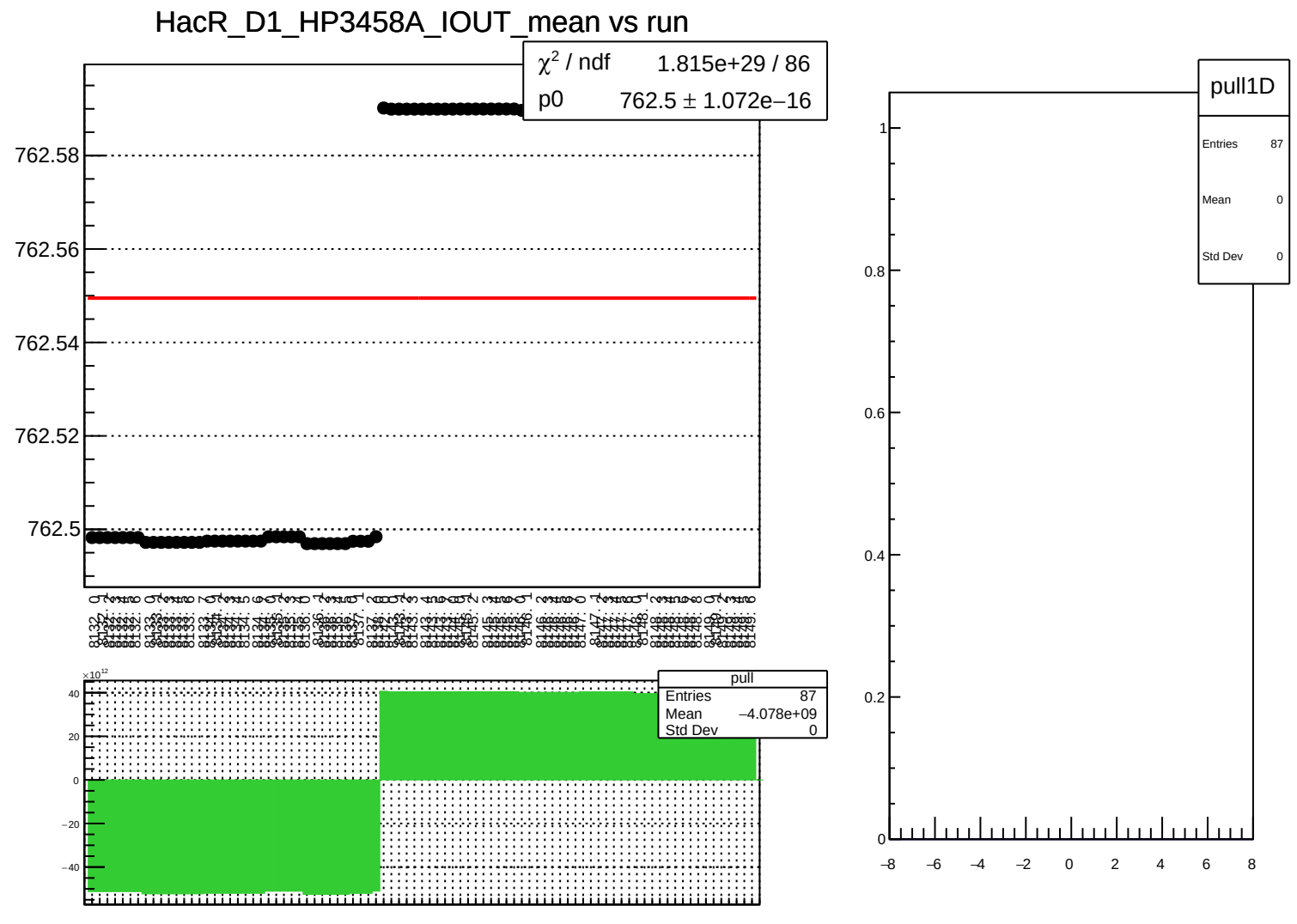

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

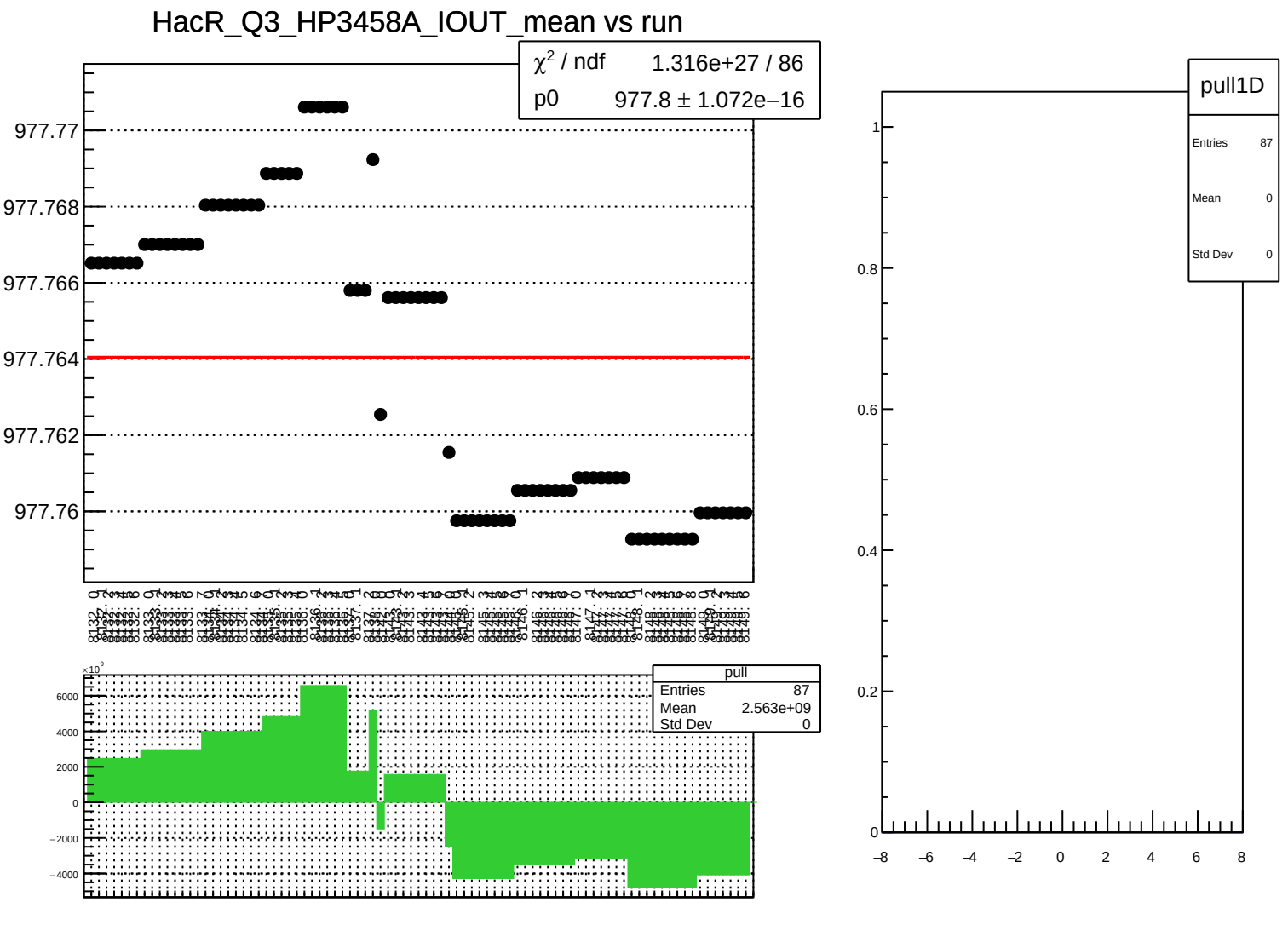

MQ172RM_mean vs run
χ² / ndf 0.0377 / 86
p0 0.009375 ± 1.072e−16
×10⁻³
9.375
pull
Entries 87
Mean 43.5
Std Dev 25.11

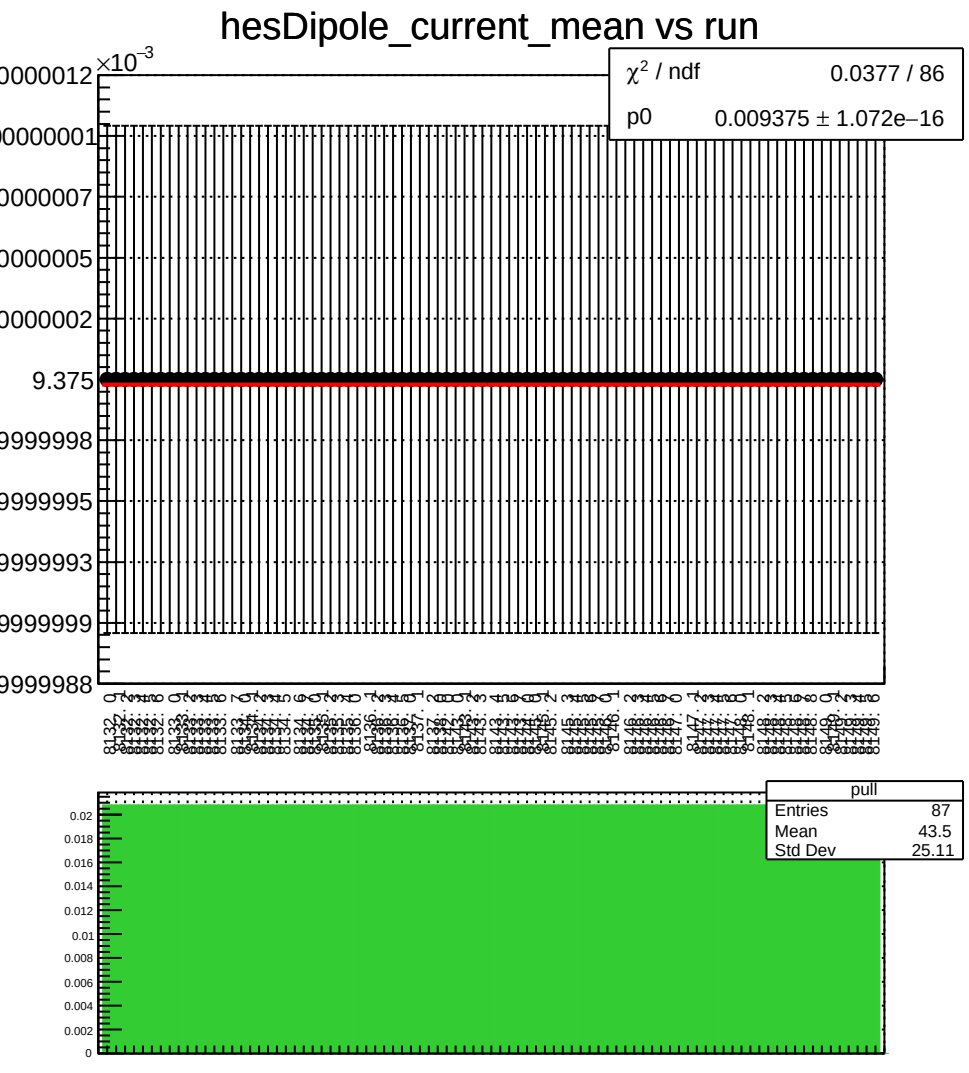

pull1D
Entries 87
Mean 0.02082
Std Dev 0

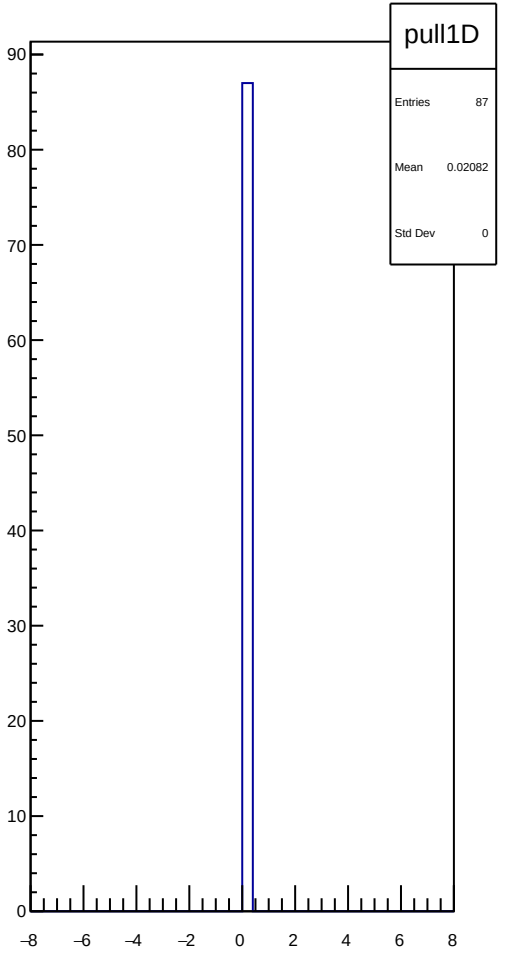

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 8.829e+28 / 86
p0 925 ± 1.072e−16
925.1
925.08
925.06
925.04
925.02
925
pull
Entries 87
Mean 1.678e+09
Std Dev 0
×10¹²
60
40
20
0
−20
−40

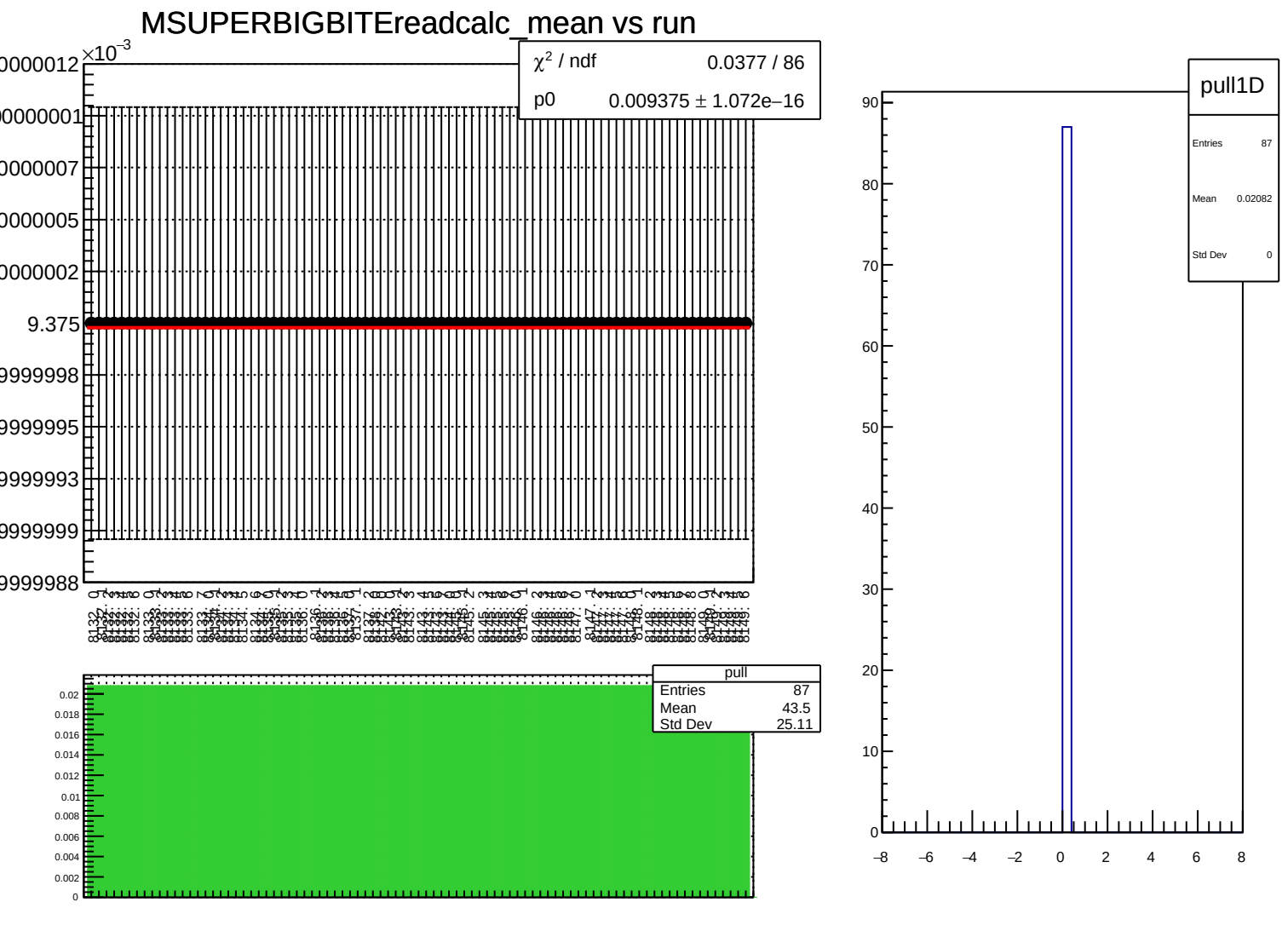

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

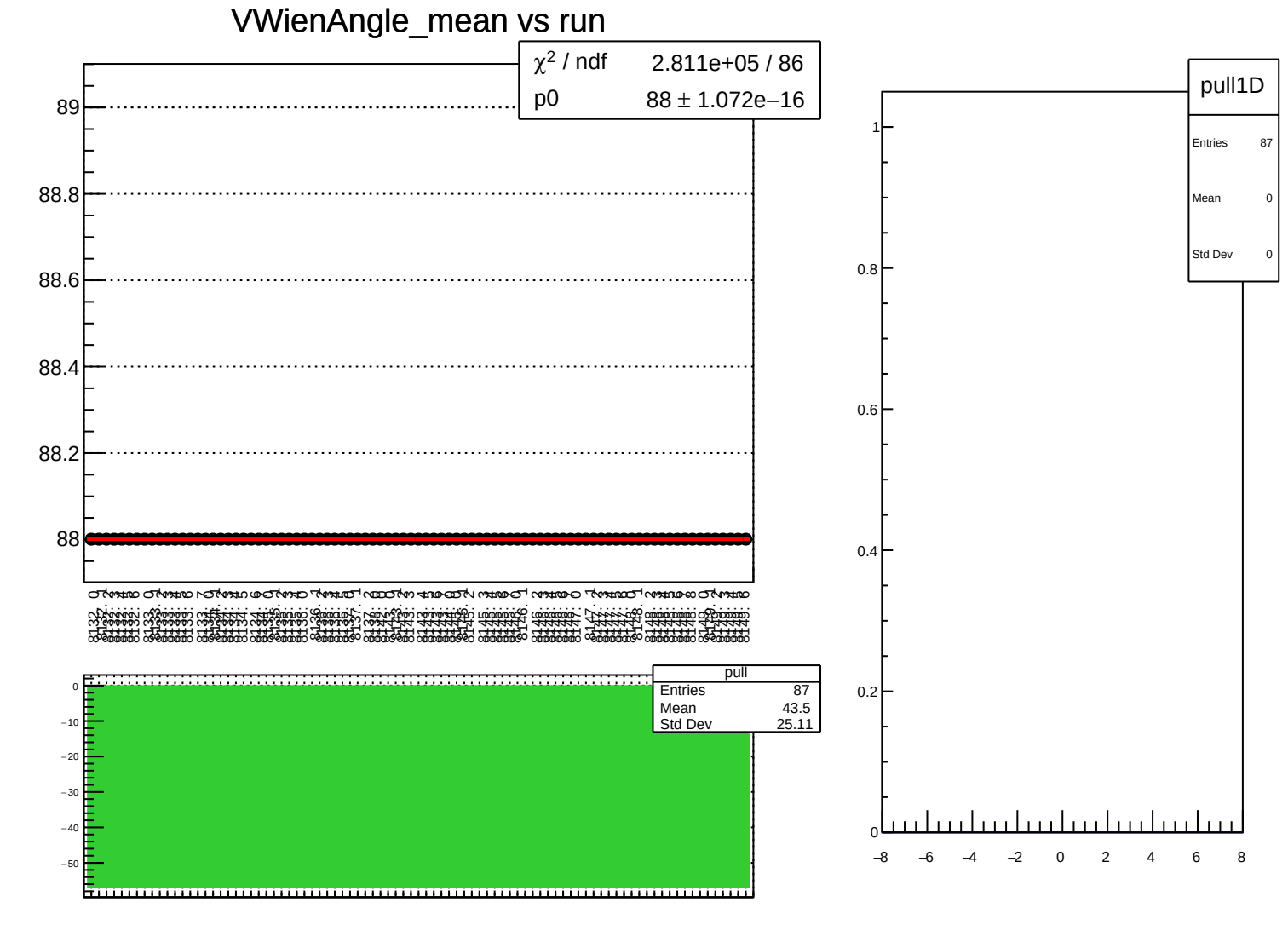

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 1.815e+29 / 86
p0 762.5 ± 1.072e−16
762.58
762.56
762.54
762.52
762.5
pull
Entries 87
Mean −4.078e+09
Std Dev 0
×10¹²
40
20
0
−20
−40
pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

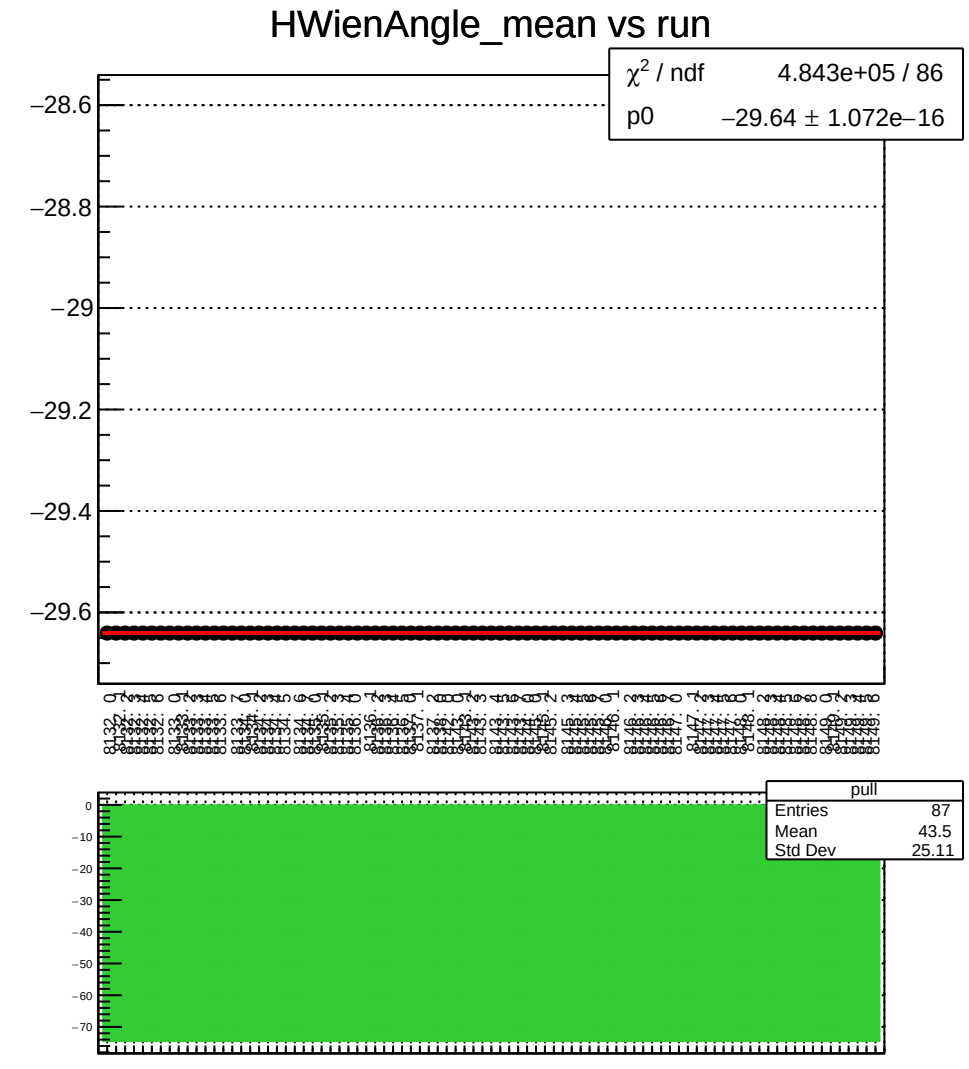

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 1.316e+27 / 86
p0 977.8 ± 1.072e−16
977.77
977.768
977.766
977.764
977.762
977.76
pull
Entries 87
Mean 2.563e+09
Std Dev 0
×10⁹
6000
4000
2000
0
−2000
−4000
pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

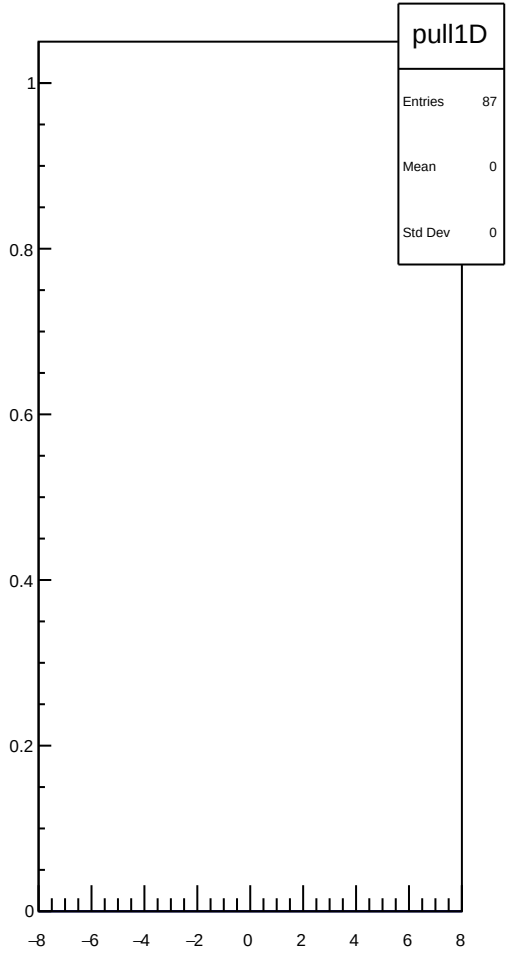

hesDipole_current_mean vs run
χ² / ndf 0.0377 / 86
p0 0.009375 ± 1.072e−16
×10⁻³
9.375
pull
Entries 87
Mean 43.5
Std Dev 25.11

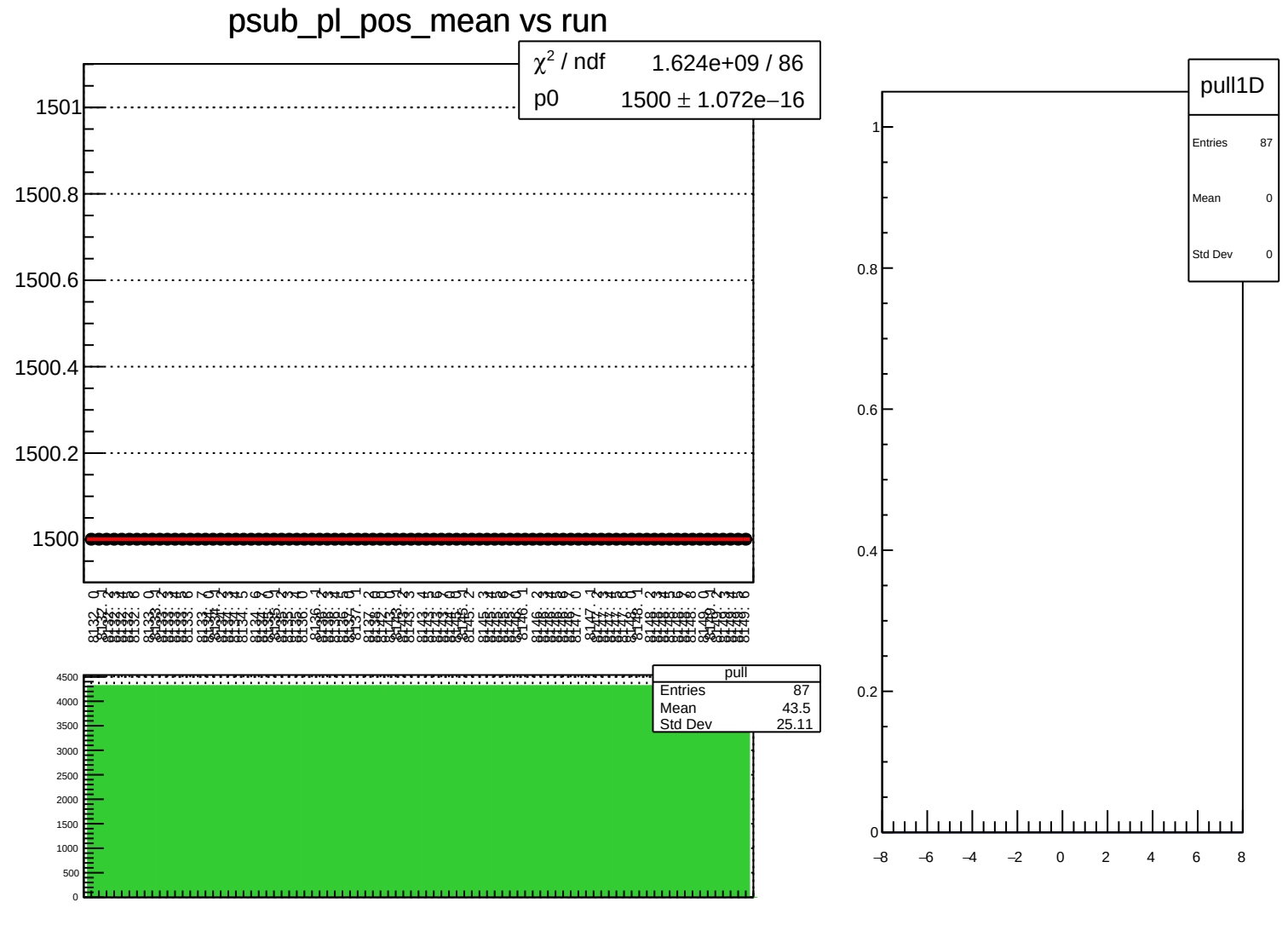

pull1D
Entries 87
Mean 0.02082
Std Dev 0

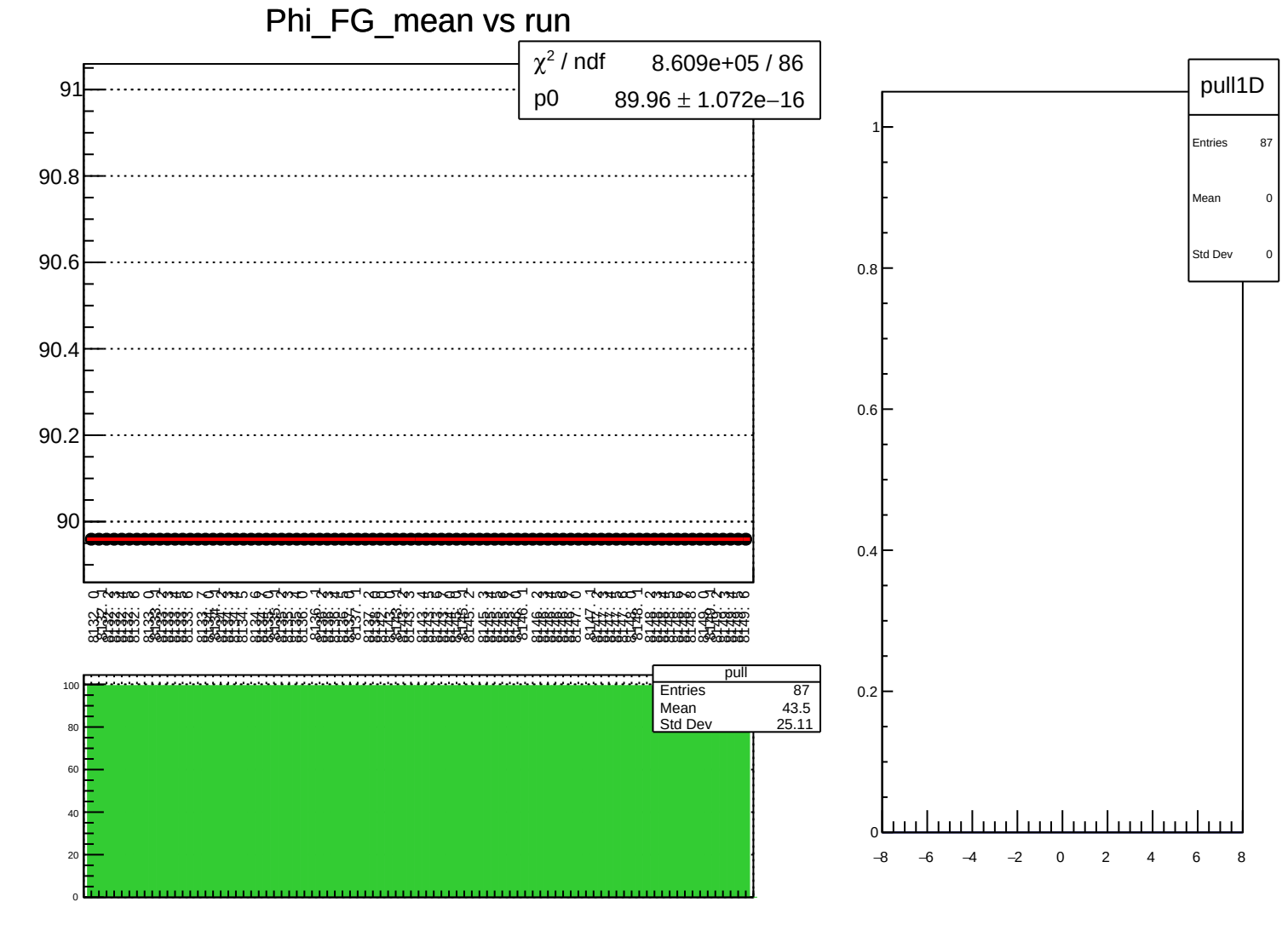

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.0377 / 86
p0 0.009375 ± 1.072e−16
×10⁻³
9.375
pull
Entries 87
Mean 43.5
Std Dev 25.11
pull1D
Entries 87
Mean 0.02082
Std Dev 0

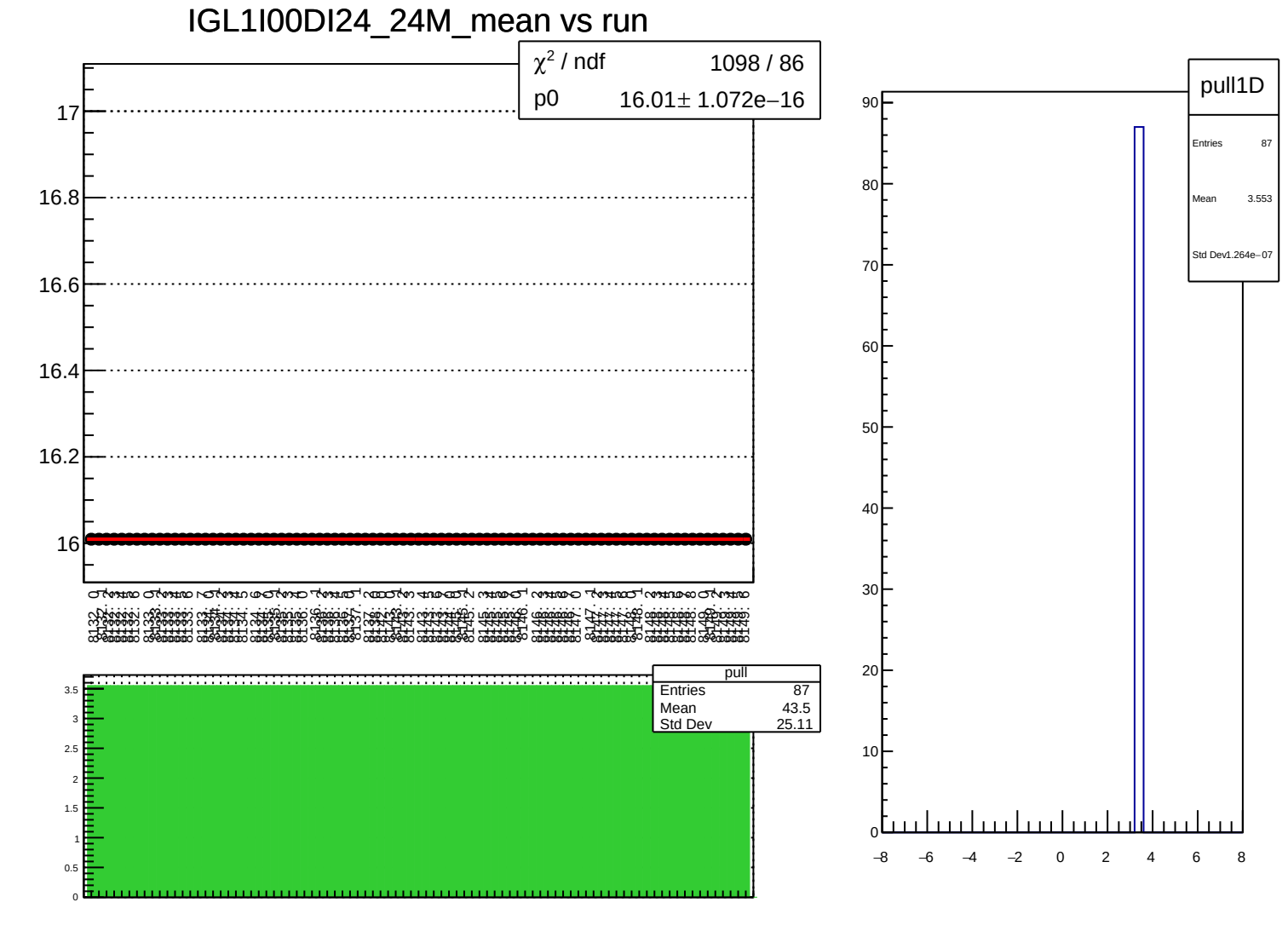

VWienAngle_mean vs run
χ² / ndf 2.811e+05 / 86
p0 88 ± 1.072e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 87
Mean 43.5
Std Dev 25.11
0
−10
−20
−30
−40
−50
pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

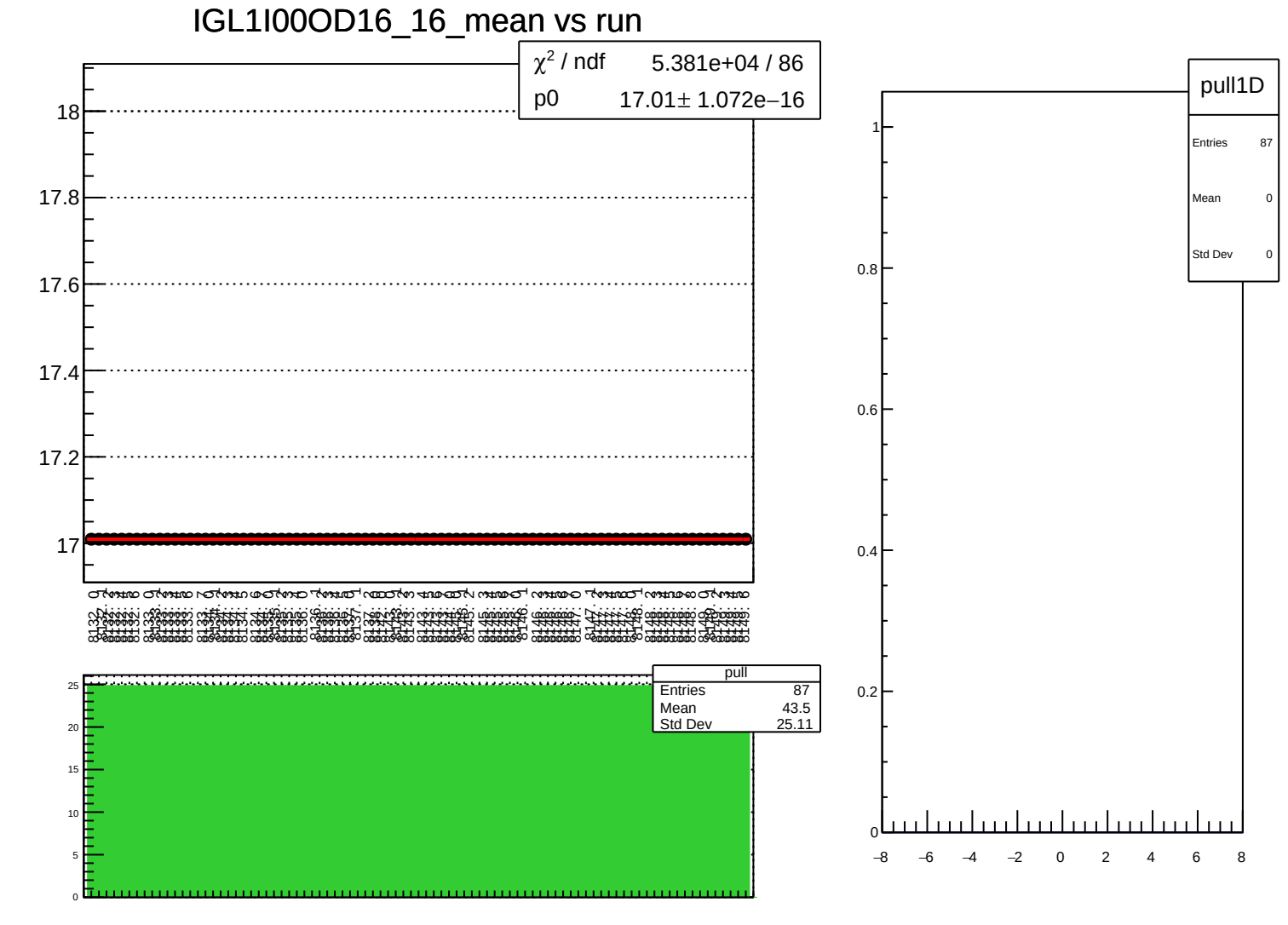

HWienAngle_mean vs run
χ² / ndf 4.843e+05 / 86
p0 −29.64 ± 1.072e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 87
Mean 43.5
Std Dev 25.11
0
−10
−20
−30
−40
−50
−60
−70

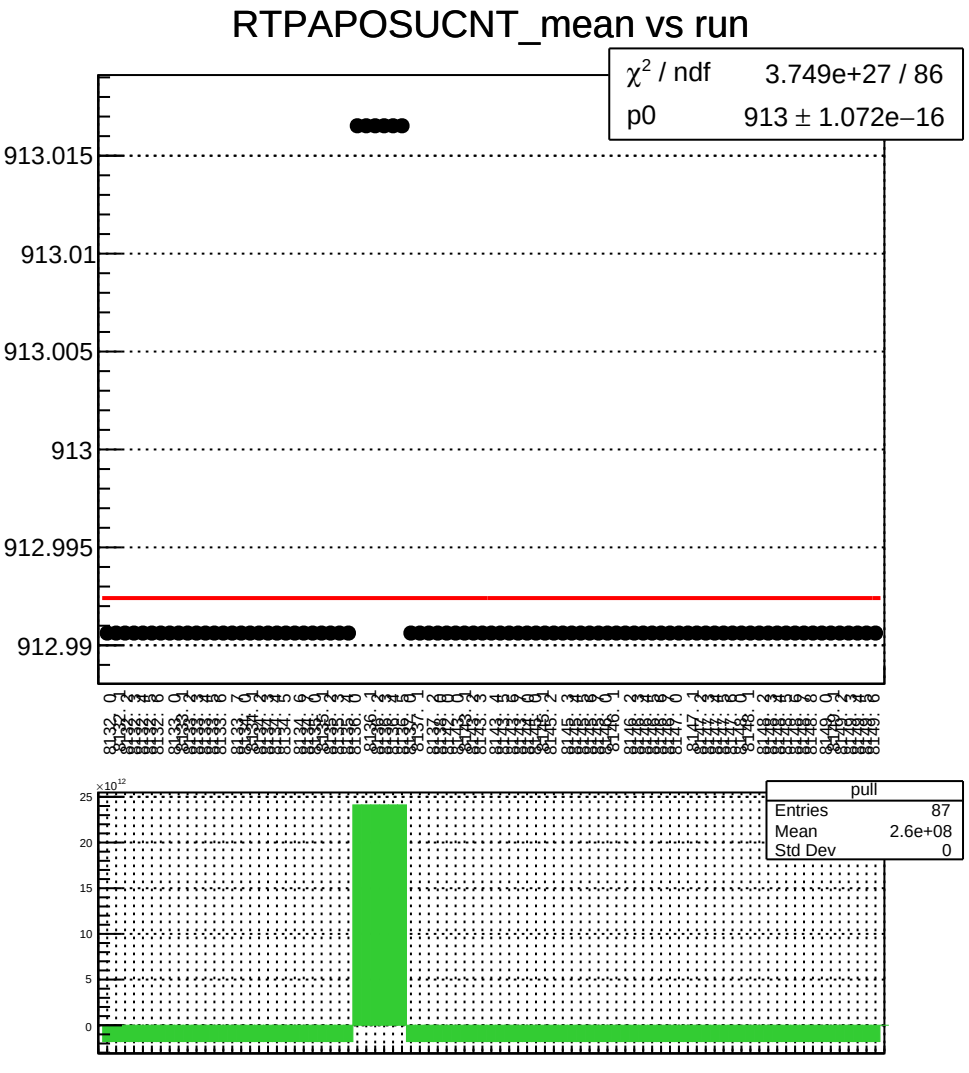

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

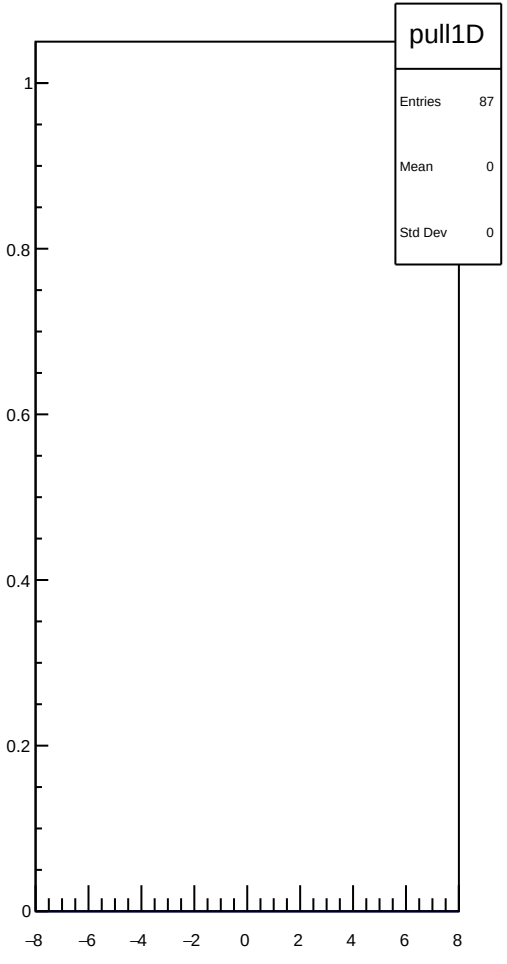

psub_pl_pos_mean vs run
χ² / ndf 1.624e+09 / 86
p0 1500 ± 1.072e−16
1501
1500.8
1500.6
1500.4
1500.2
1500
pull
Entries 87
Mean 43.5
Std Dev 25.11
4500
4000
3500
3000
2500
2000
1500
1000
500
0
pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

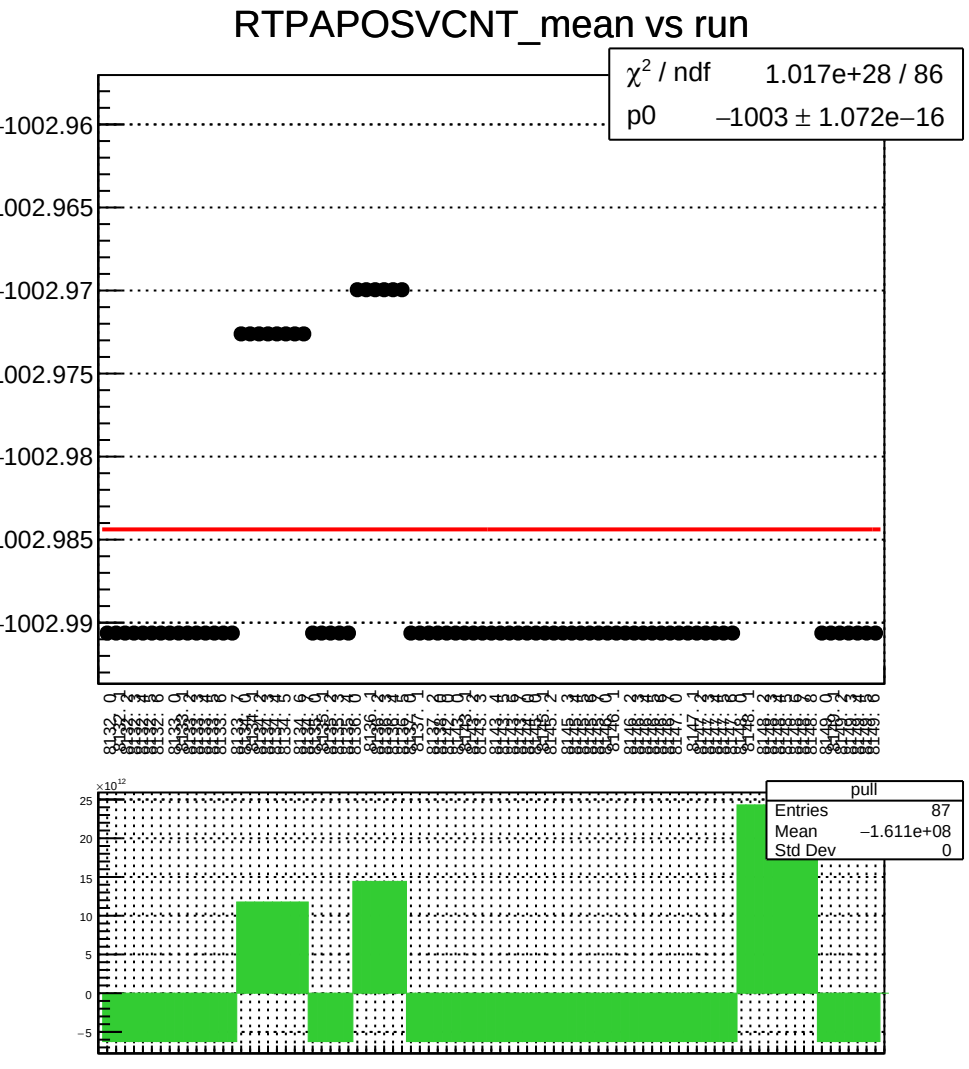

Phi_FG_mean vs run
χ² / ndf 8.609e+05 / 86
p0 89.96 ± 1.072e−16
91
90.8
90.6
90.4
90.2
90
pull
Entries 87
Mean 43.5
Std Dev 25.11
100
80
60
40
20
0
pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

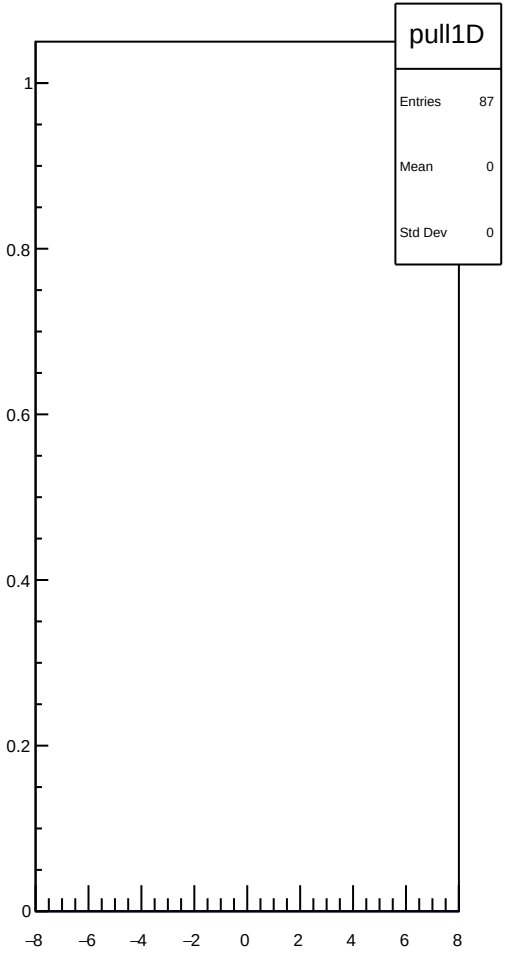

IGL1I00DI24_24M_mean vs run
χ² / ndf 1098 / 86
p0 16.01± 1.072e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 87
Mean 43.5
Std Dev 25.11
3.5
3
2.5
2
1.5
1
0.5
0
pull1D
Entries 87
Mean 3.553
Std Dev1.264e−07
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

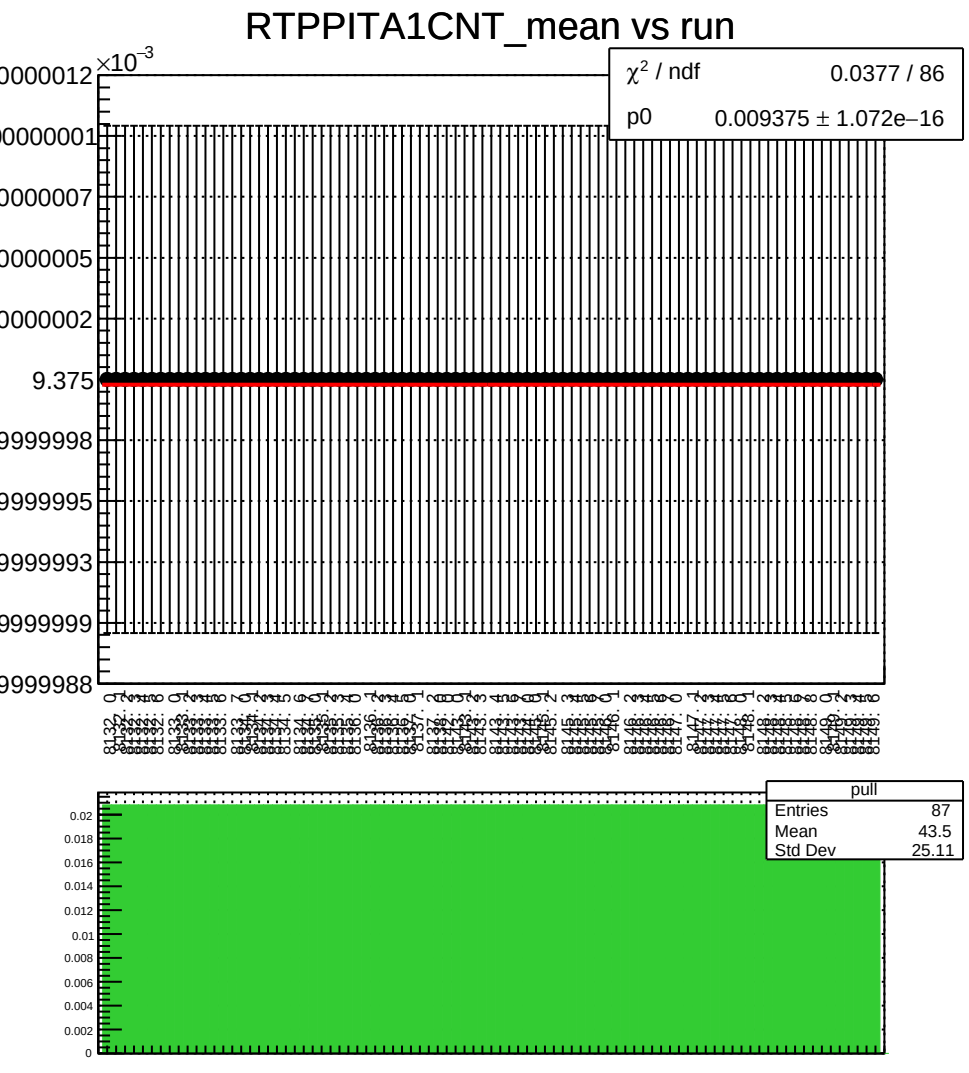

IGL1I00OD16_16_mean vs run
χ² / ndf 5.381e+04 / 86
p0 17.01± 1.072e−16
18
17.8
17.6
17.4
17.2
17
pull
Entries 87
Mean 43.5
Std Dev 25.11
25
20
15
10
5
0
pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

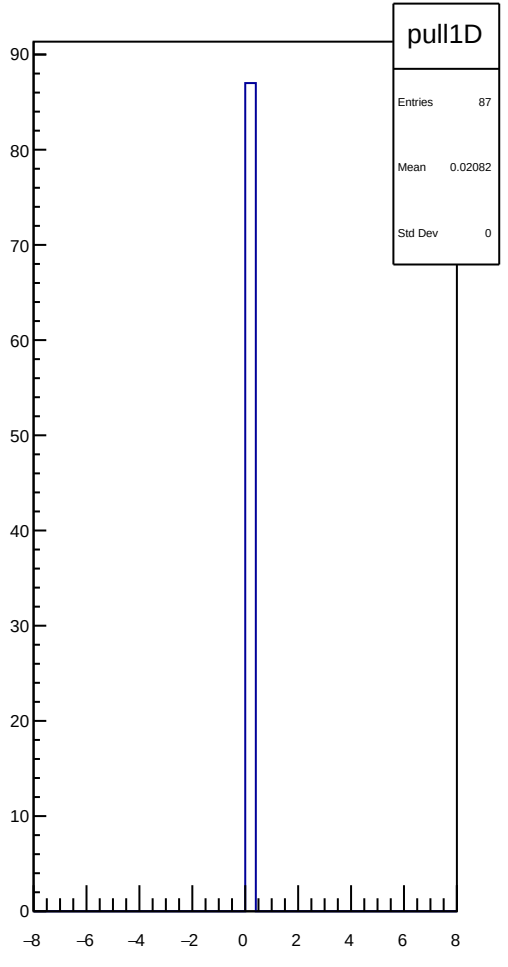

RTPAPOSUCNT_mean vs run
χ² / ndf 3.749e+27 / 86
p0 913 ± 1.072e−16
913.015
913.01
913.005
913
912.995
912.99
pull
Entries 87
Mean 2.6e+08
Std Dev 0
×10¹²
25
20
15
10
5
0

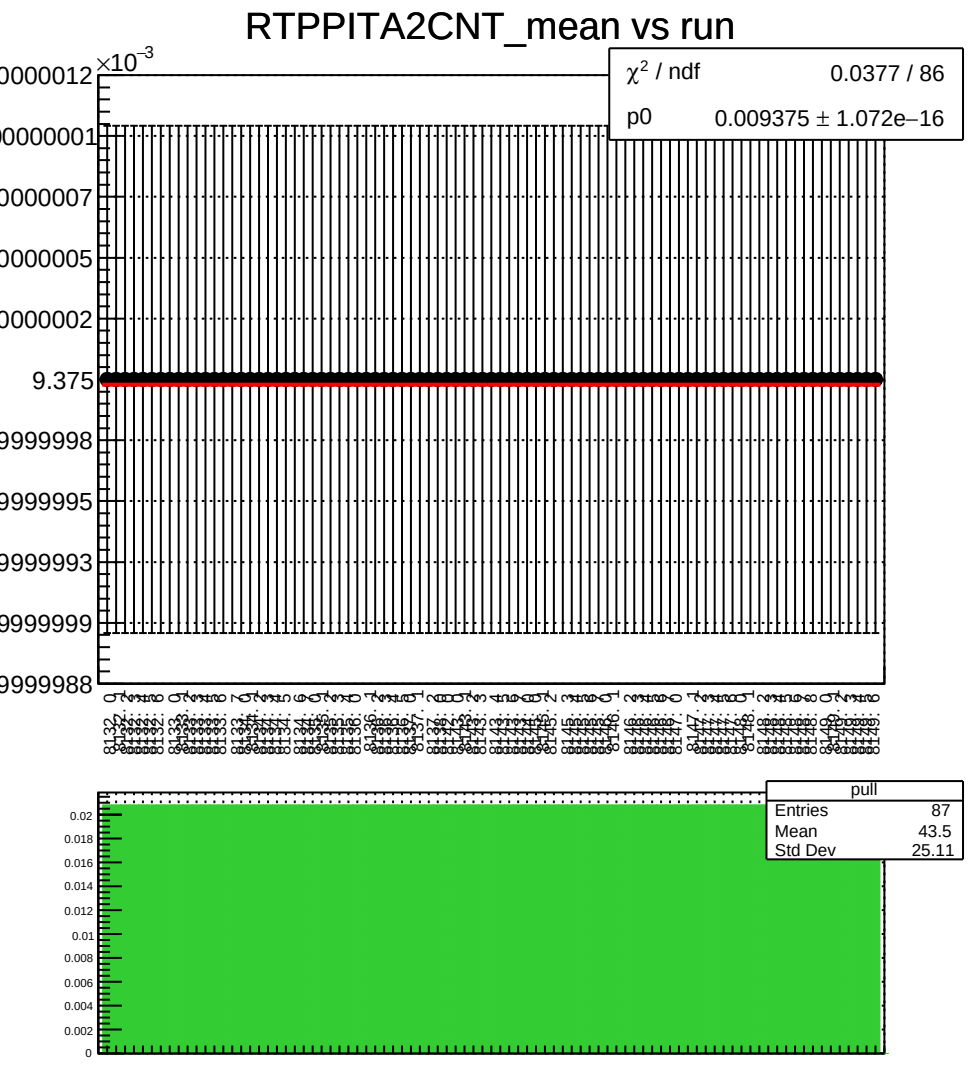

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

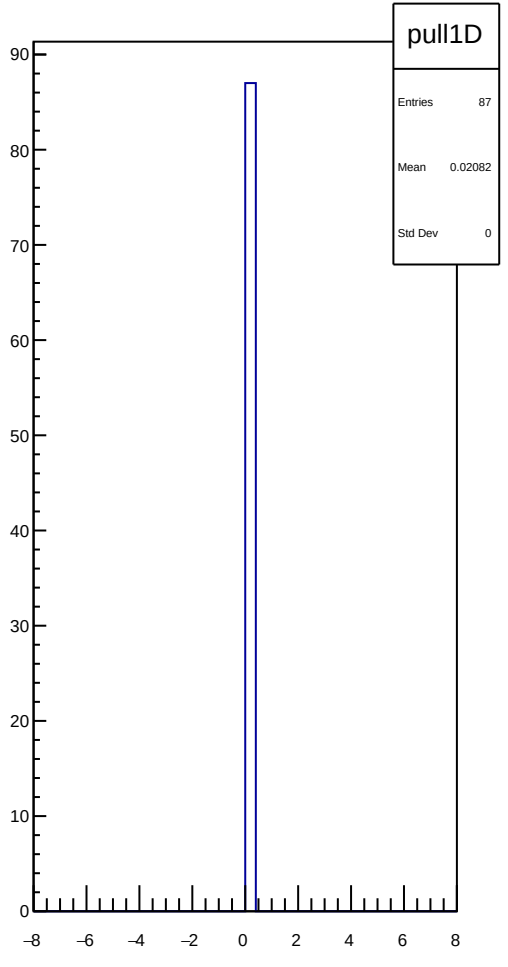

RTPAPOSVCNT_mean vs run
χ² / ndf 1.017e+28 / 86
p0 −1003 ± 1.072e−16
−1002.96
−1002.965
−1002.97
−1002.975
−1002.98
−1002.985
−1002.99
pull
Entries 87
Mean −1.611e+08
Std Dev 0
×10¹²
25
20
15
10
5
0
−5


pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPPITA1CNT_mean vs run
χ² / ndf 0.0377 / 86
p0 0.009375 ± 1.072e−16
×10⁻³
pull
Entries 87
Mean 43.5
Std Dev 25.11


pull1D
Entries 87
Mean 0.02082
Std Dev 0


RTPPITA2CNT_mean vs run
χ² / ndf 0.0377 / 86
p0 0.009375 ± 1.072e−16
×10⁻³
pull
Entries 87
Mean 43.5
Std Dev 25.11


pull1D
Entries 87
Mean 0.02082
Std Dev 0