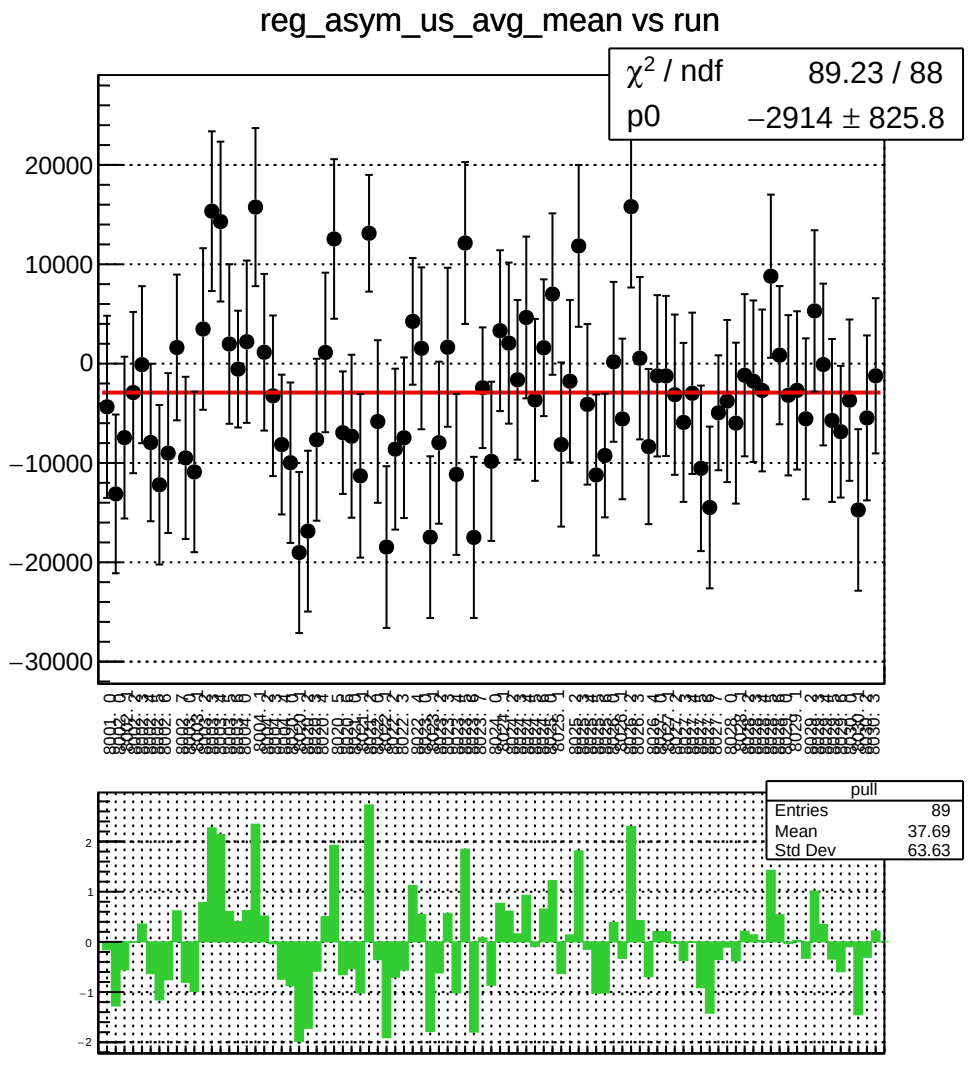
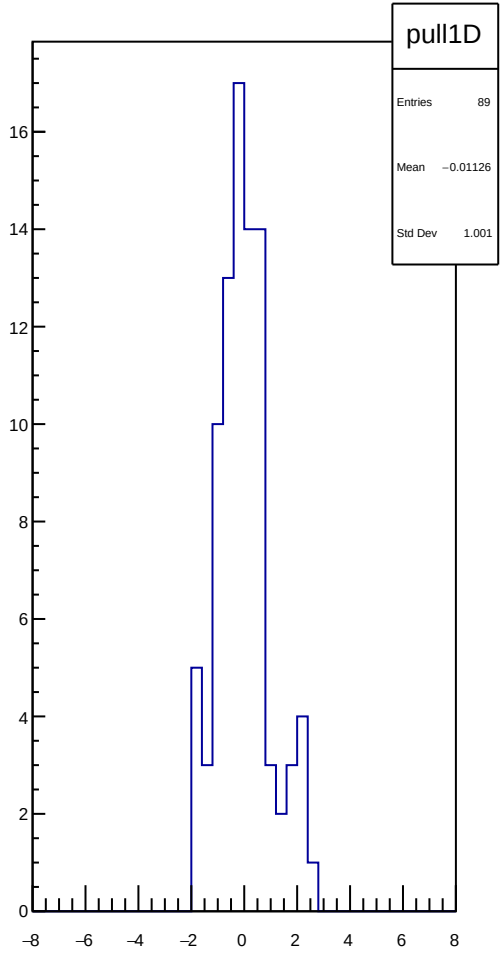
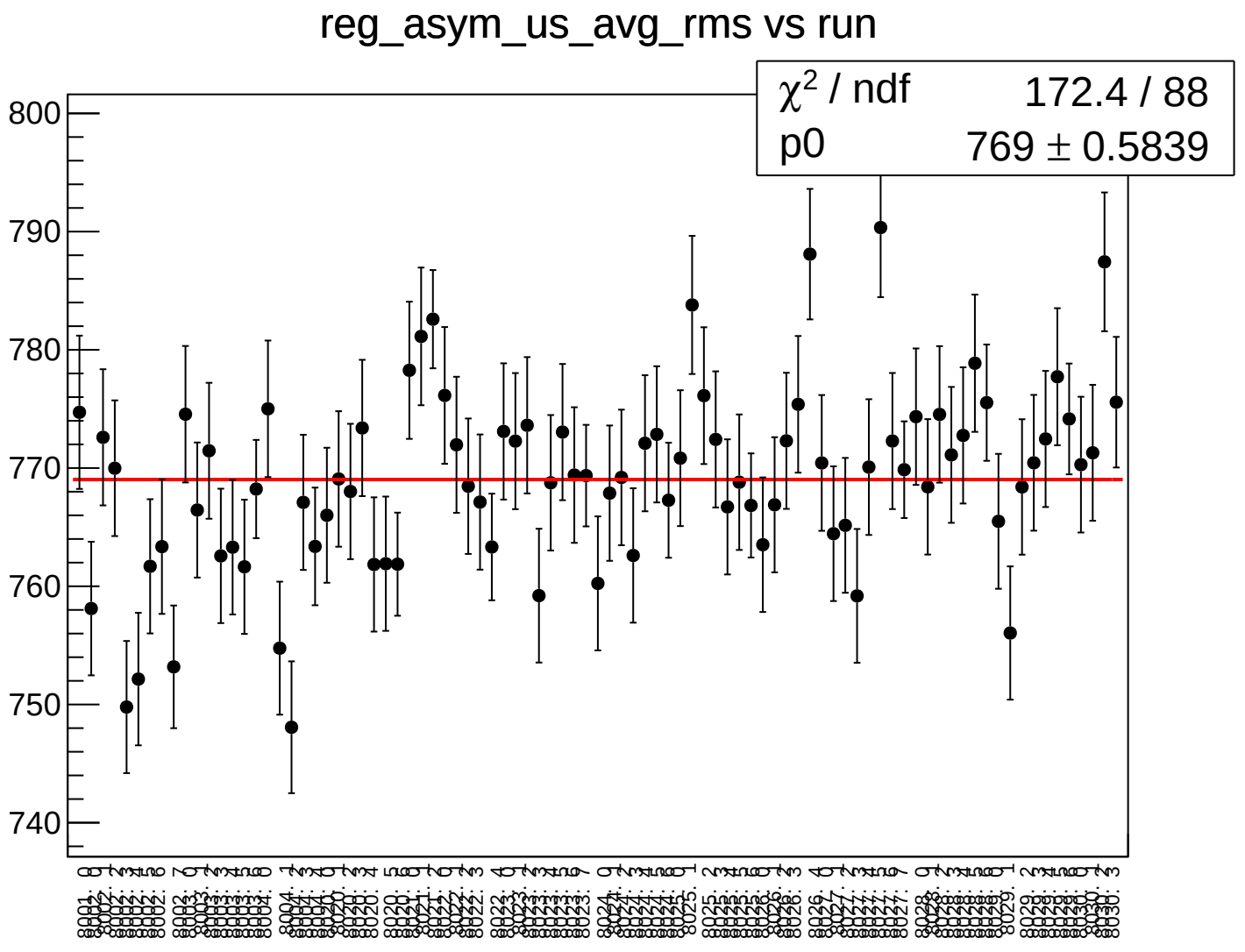
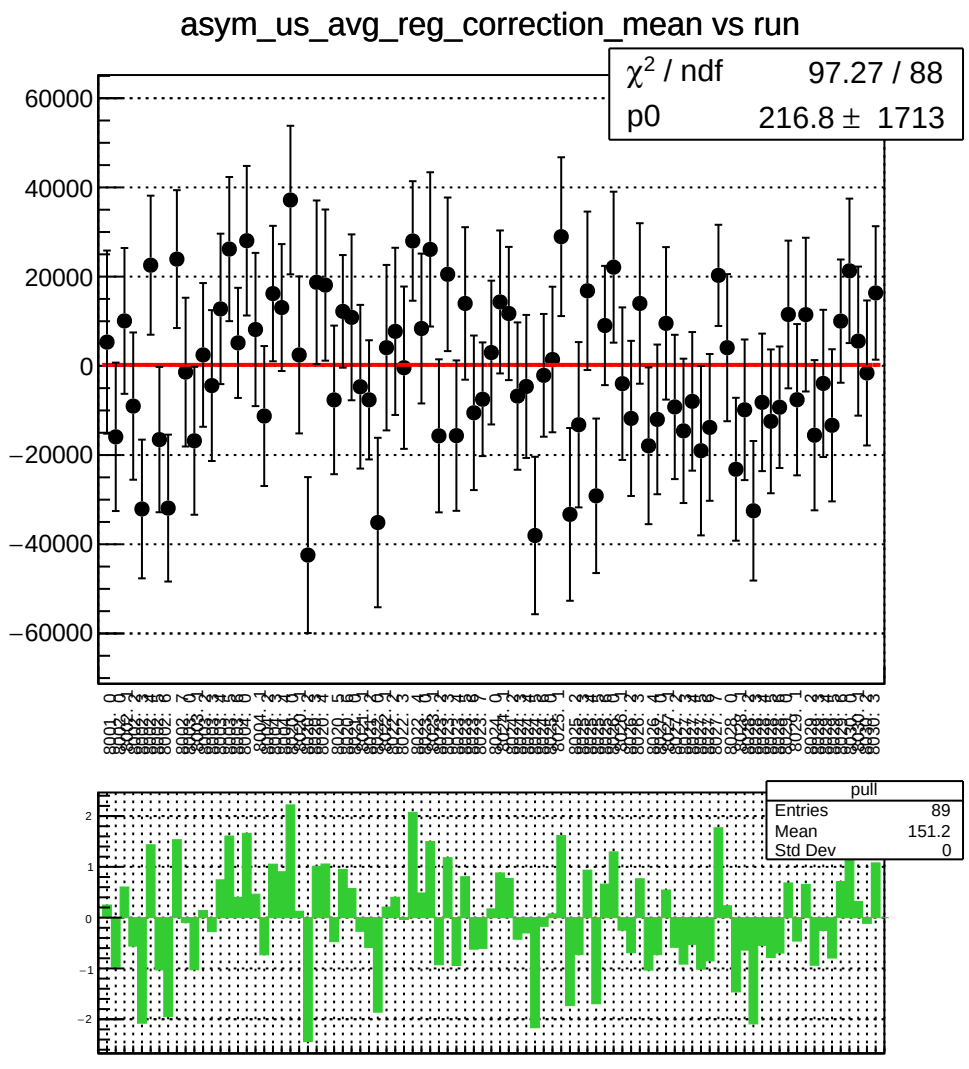
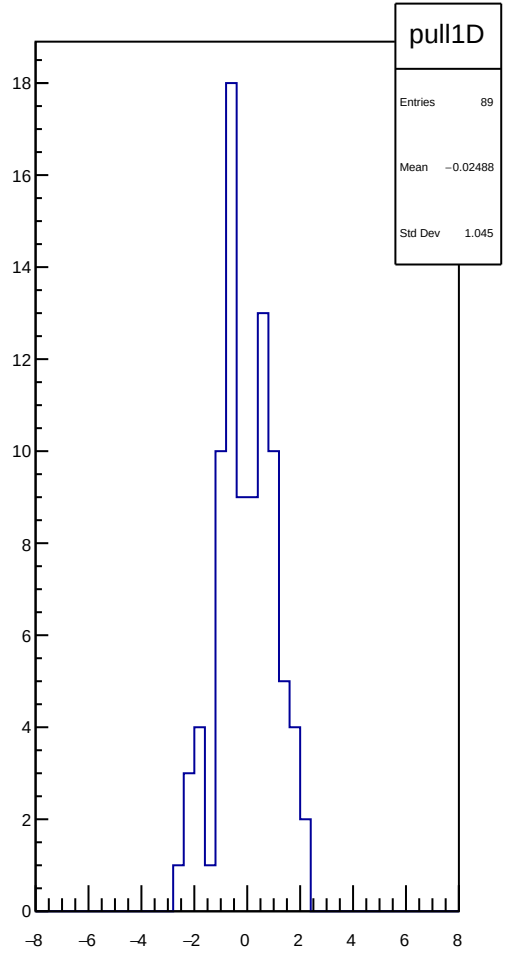
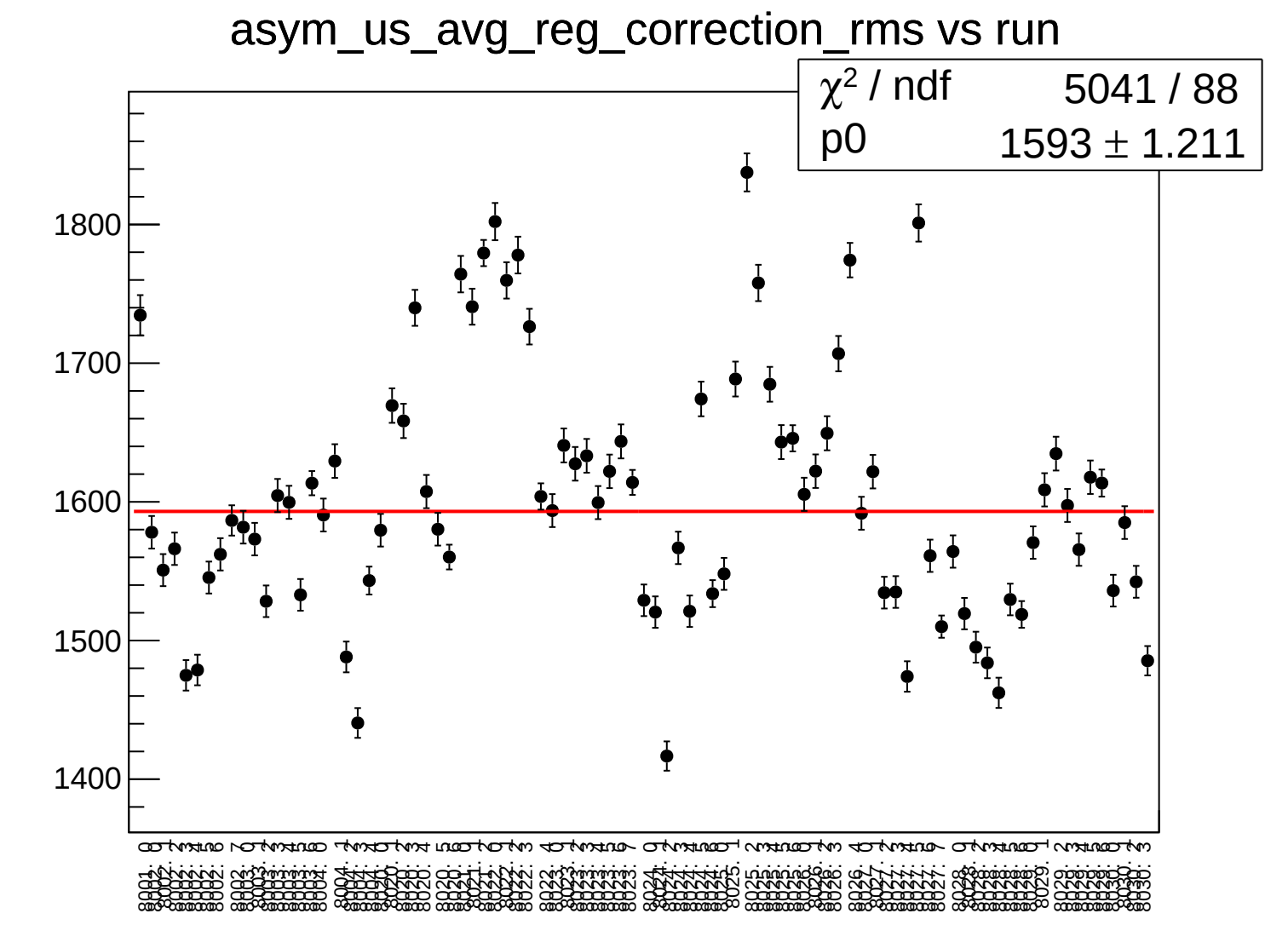

reg_asym_us_avg_mean vs run
χ² / ndf 89.23 / 88
p0 −2914 ± 825.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 37.69
Std Dev 63.63
2
1
0
−1
−2

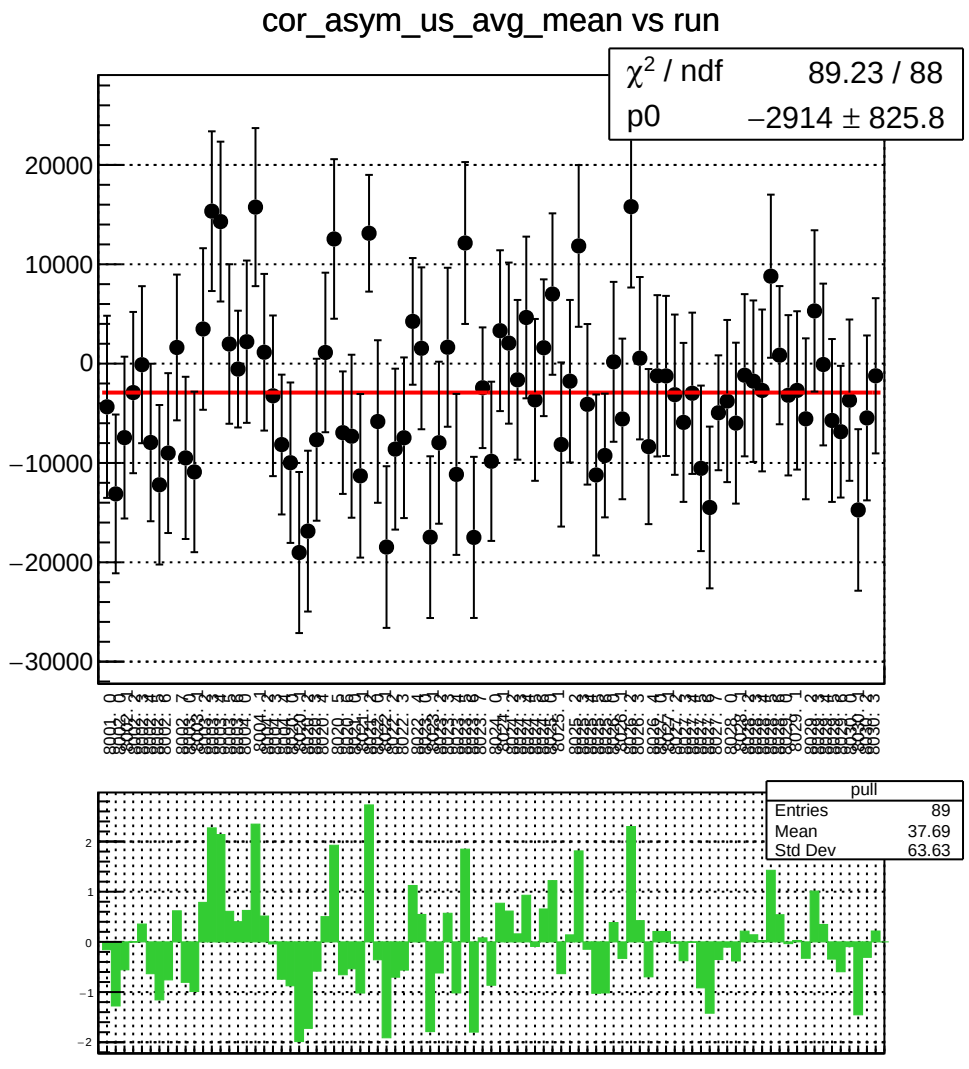

pull1D
Entries 89
Mean −0.01126
Std Dev 1.001
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

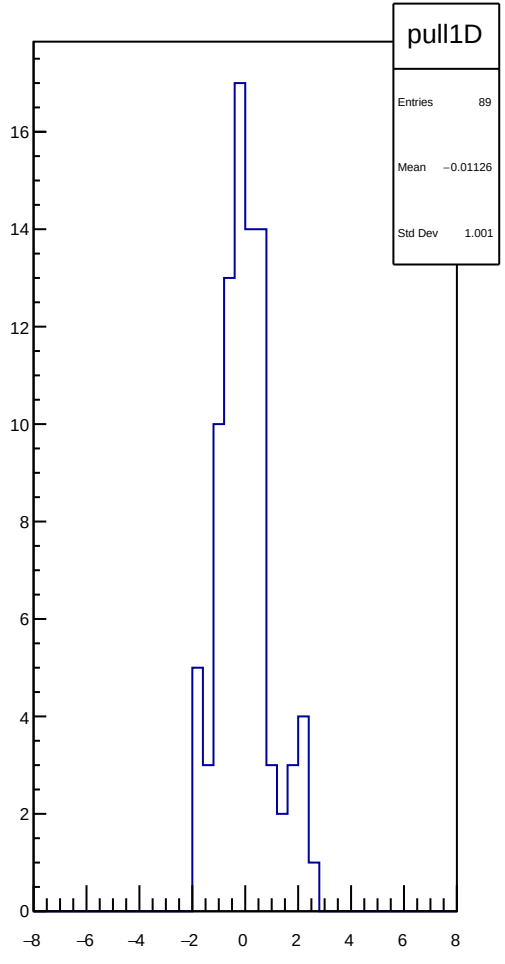

reg_asym_us_avg_rms vs run
χ^2 / ndf 172.4 / 88
p0 769 ± 0.5839
800
790
780
770
760
750
740

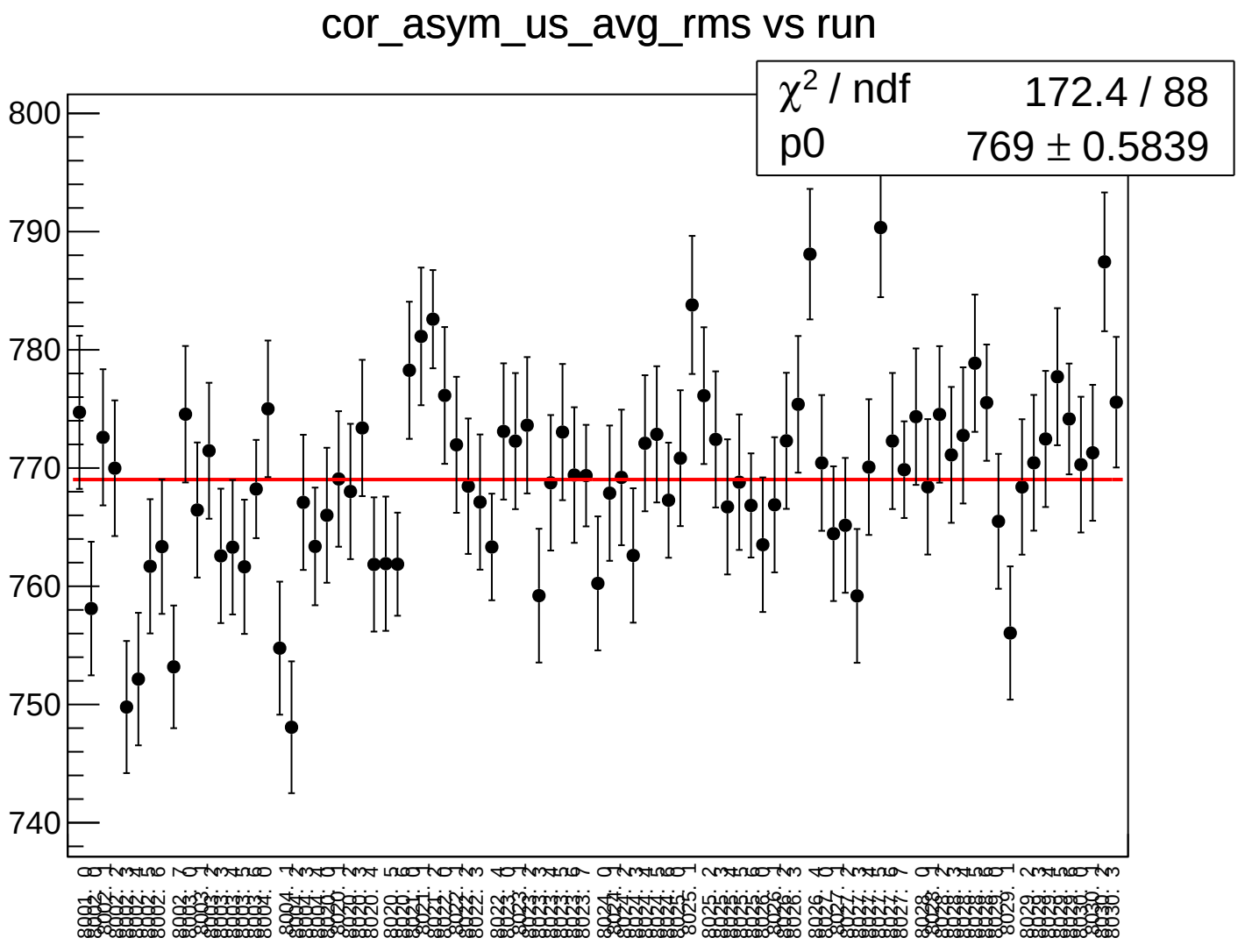

asym_us_avg_reg_correction_mean vs run
χ² / ndf 97.27 / 88
p0 216.8 ± 1713
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 151.2
Std Dev 0
2
1
0
−1
−2

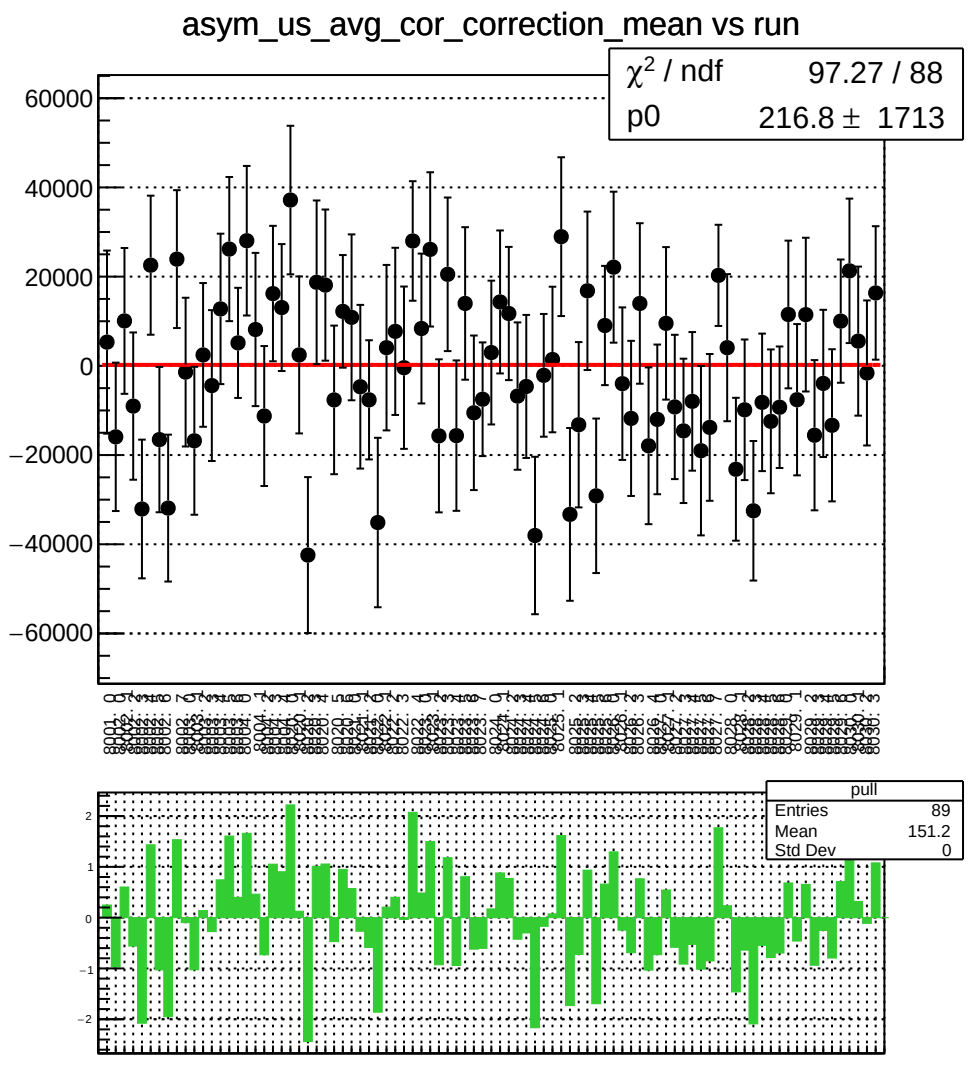

pull1D
Entries 89
Mean −0.02488
Std Dev 1.045
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

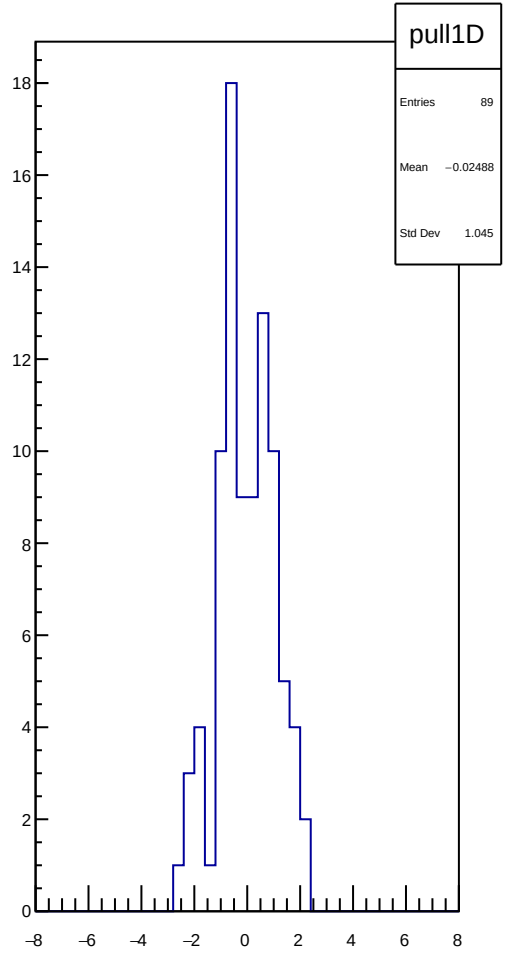

asym_us_avg_reg_correction_rms vs run
χ² / ndf 5041 / 88
p0 1593 ± 1.211
1800
1700
1600
1500
1400


cor_asym_us_avg_mean vs run
χ² / ndf 89.23 / 88
p0 −2914 ± 825.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 37.69
Std Dev 63.63
2
1
0
−1
−2


pull1D
Entries 89
Mean −0.01126
Std Dev 1.001
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 172.4 / 88
p0 769 ± 0.5839
800
790
780
770
760
750
740


asym_us_avg_cor_correction_mean vs run
χ² / ndf 97.27 / 88
p0 216.8 ± 1713
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 151.2
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 89
Mean −0.02488
Std Dev 1.045
18
16
14
12
10
8
6
4
2
0
−8
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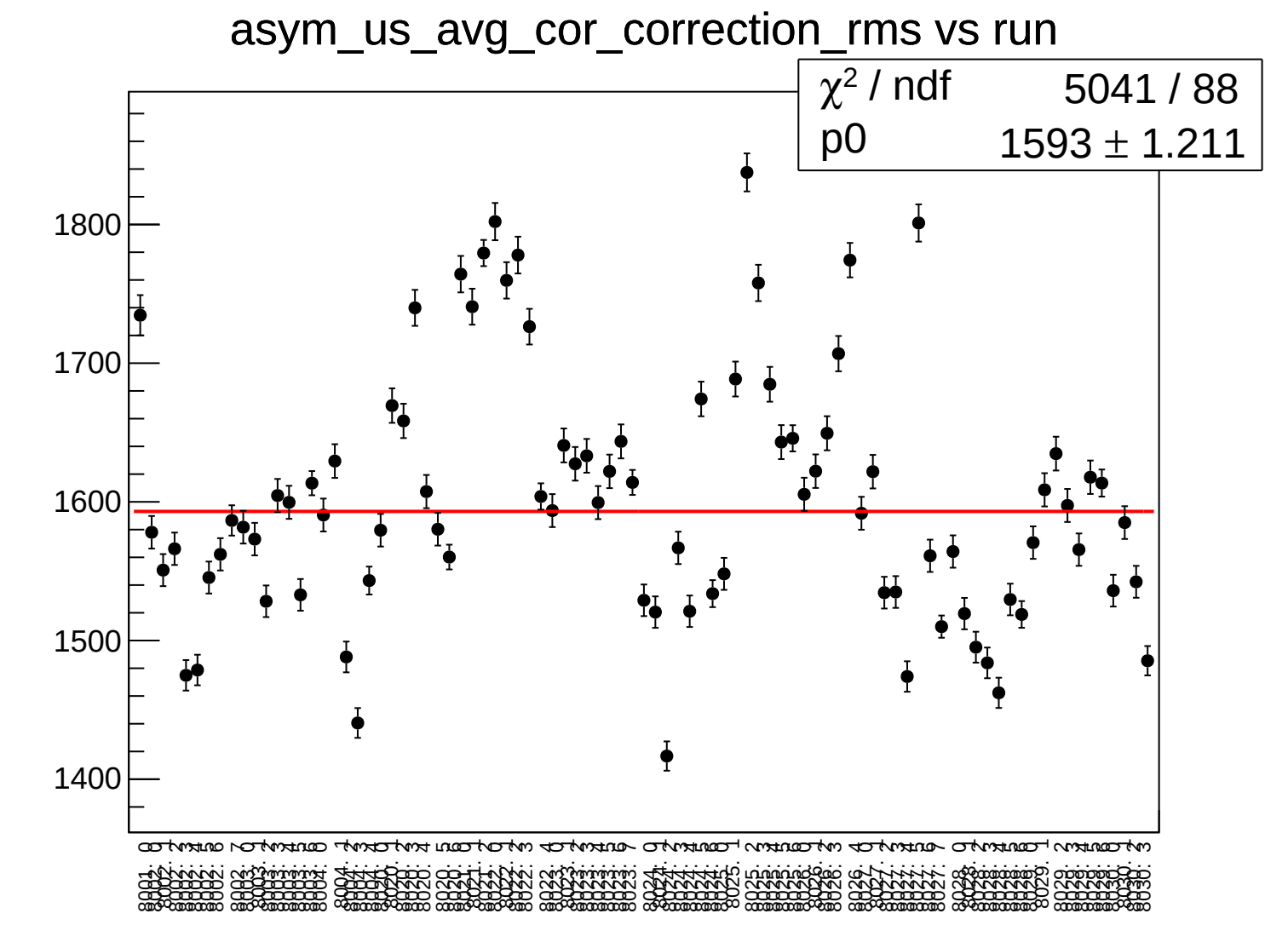
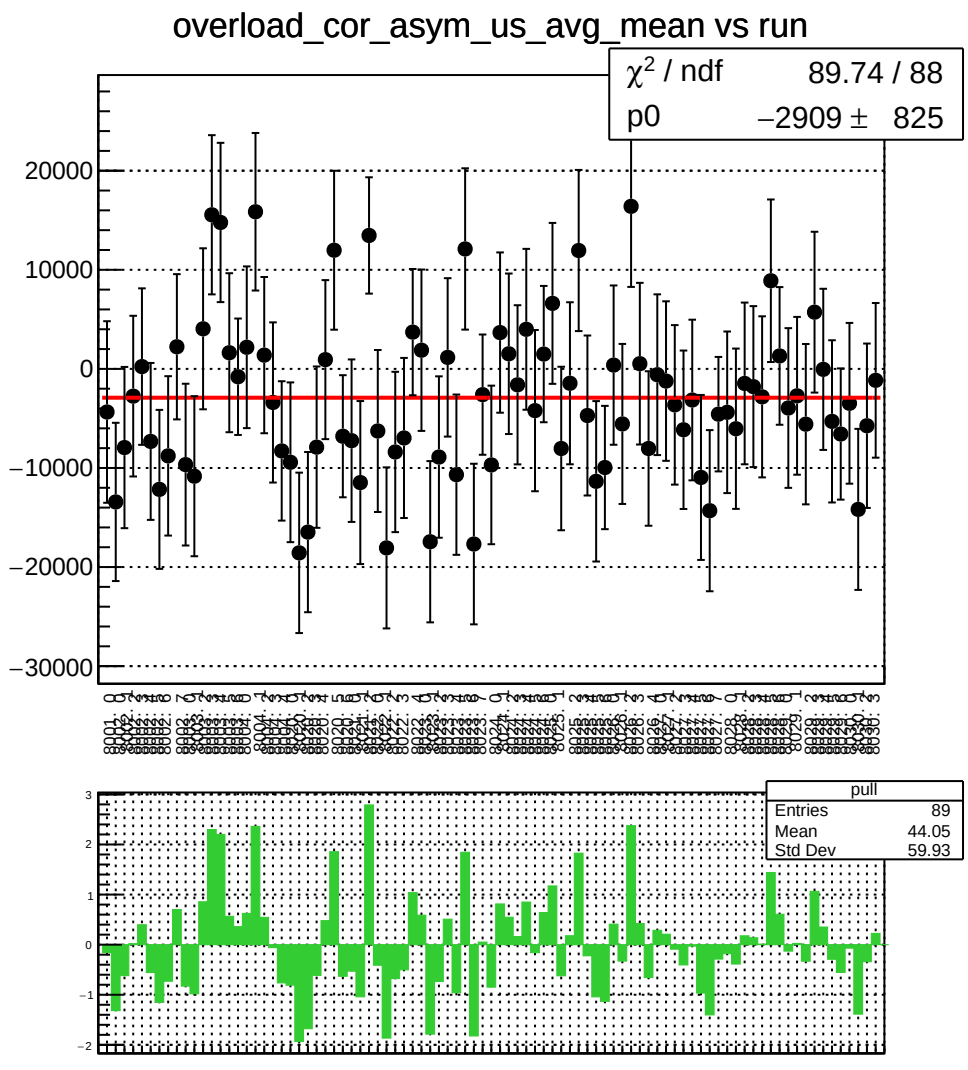
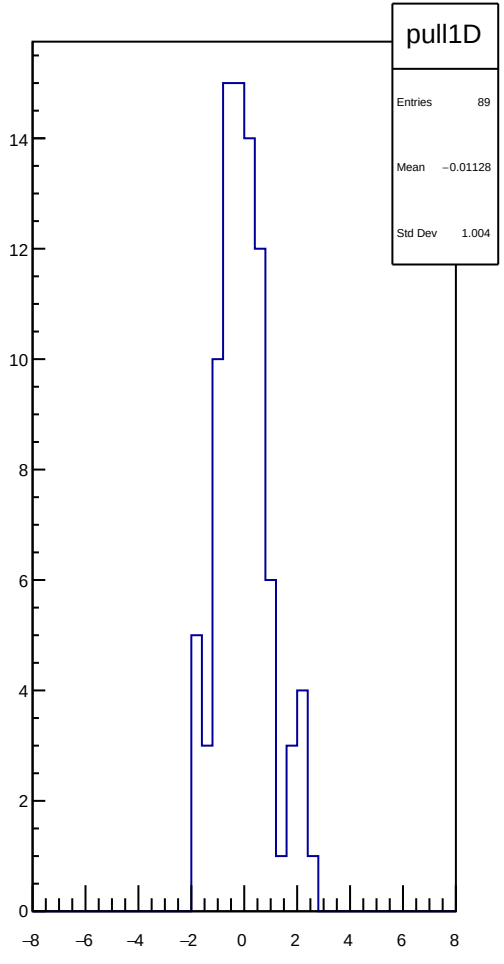
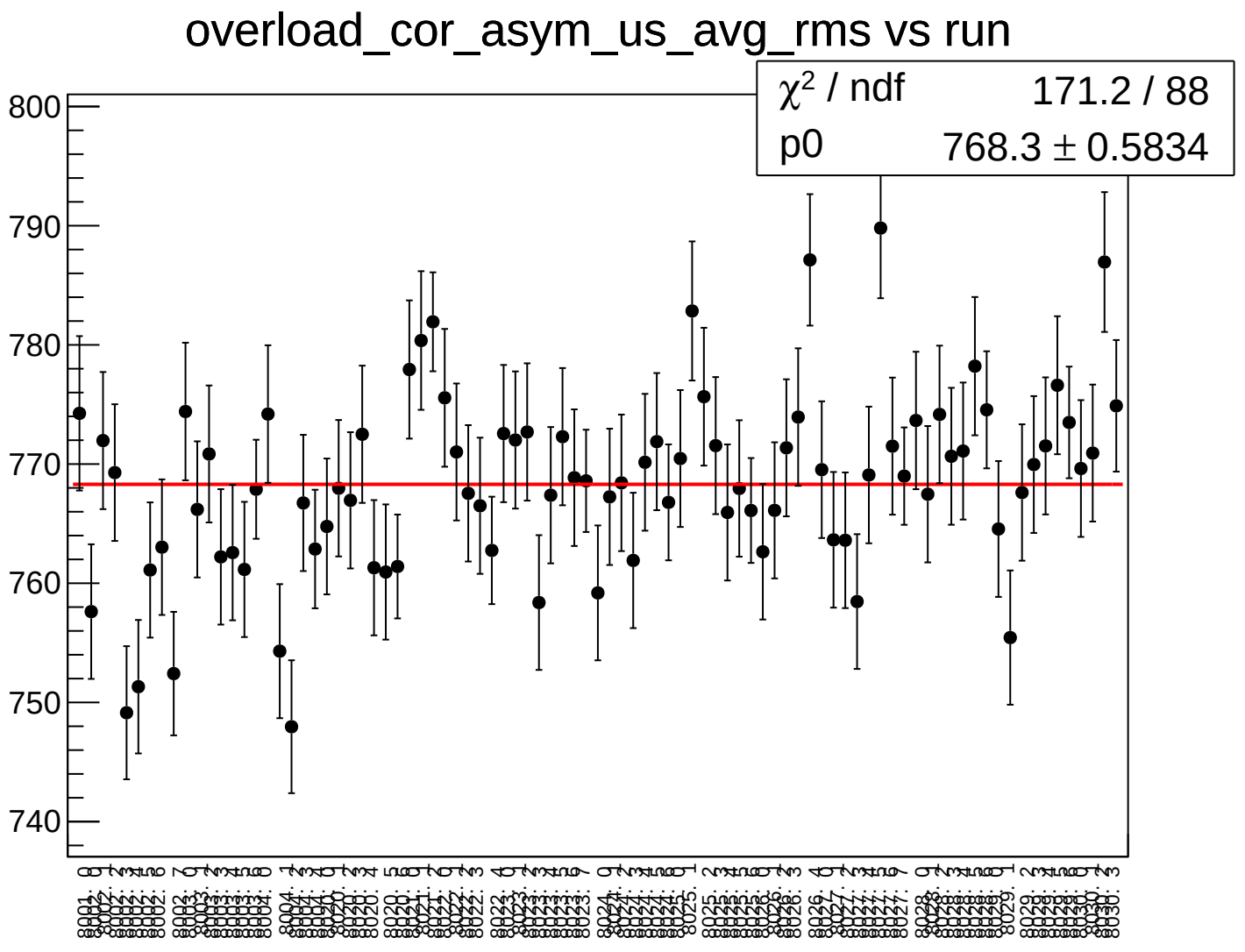
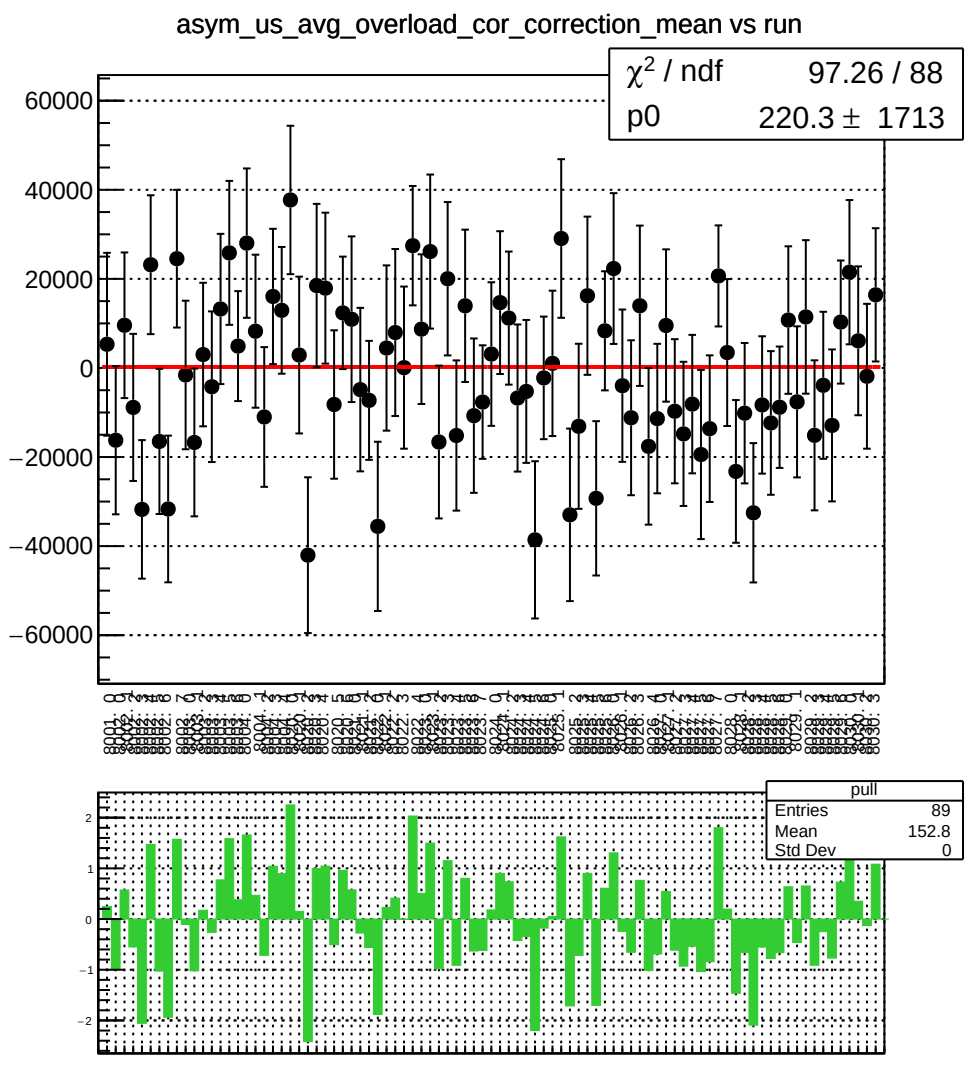
0
2
4
6
8

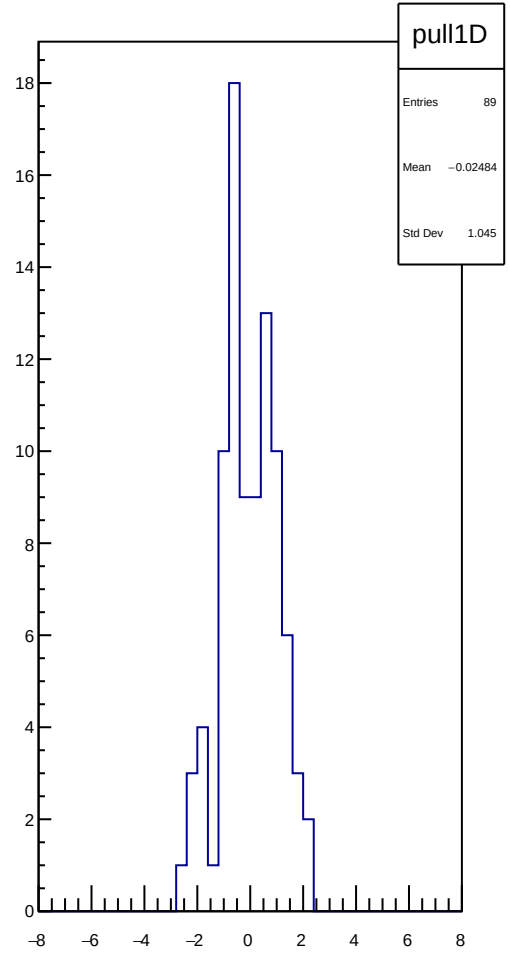

asym_us_avg_cor_correction_rms vs run
χ² / ndf 5041 / 88
p0 1593 ± 1.211
1800
1700
1600
1500
1400

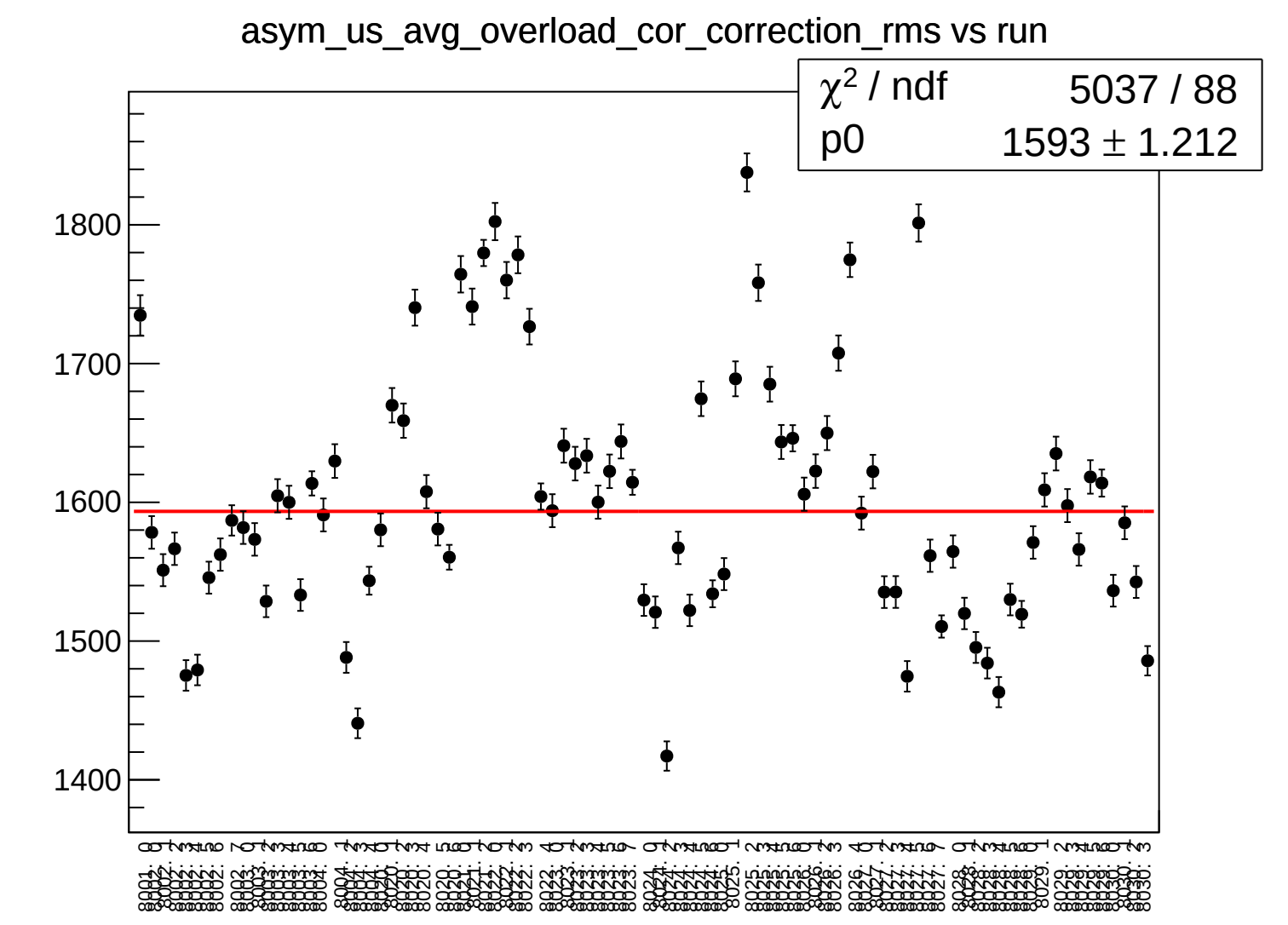

overload_cor_asym_us_avg_mean vs run
χ² / ndf 89.74 / 88
p0 −2909 ± 825
pull
Entries 89
Mean 44.05
Std Dev 59.93

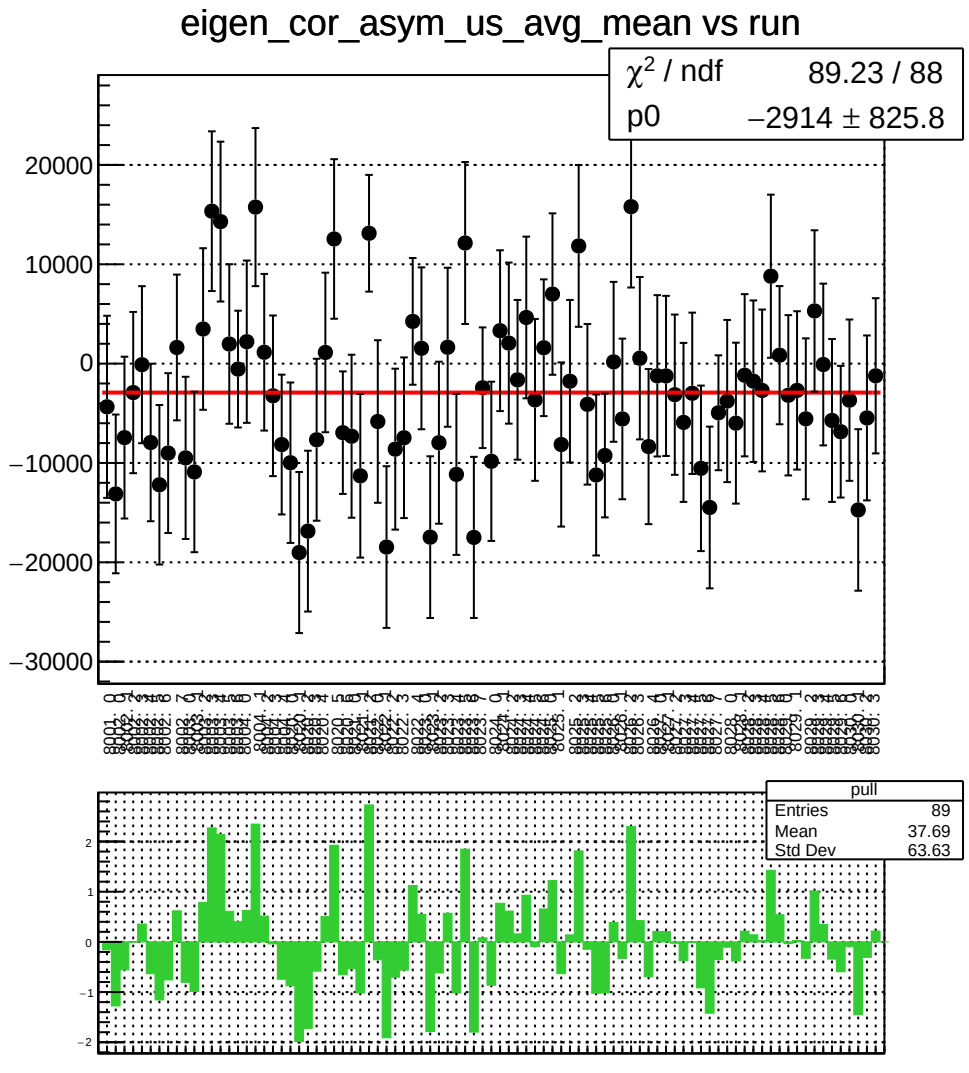

pull1D
Entries 89
Mean −0.01128
Std Dev 1.004

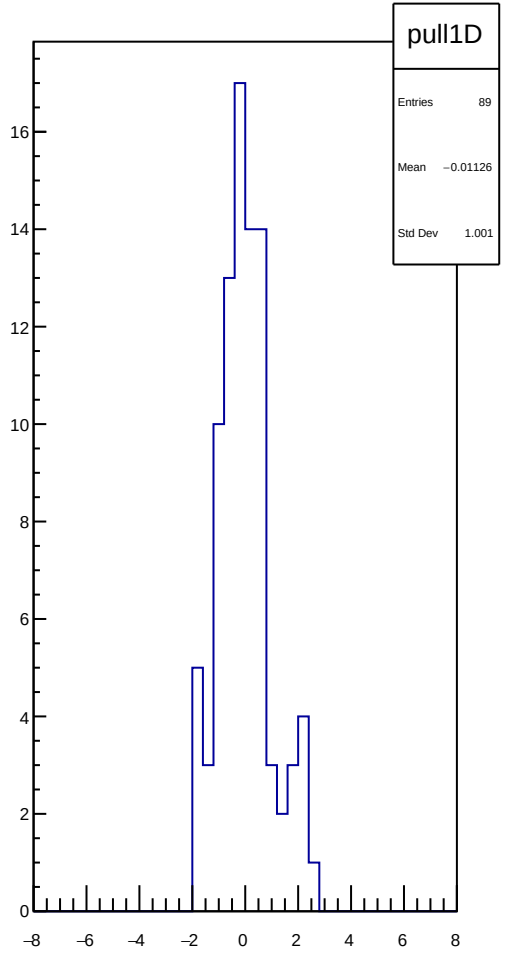

overload_cor_asym_us_avg_rms vs run
χ² / ndf 171.2 / 88
p0 768.3 ± 0.5834
800
790
780
770
760
750
740

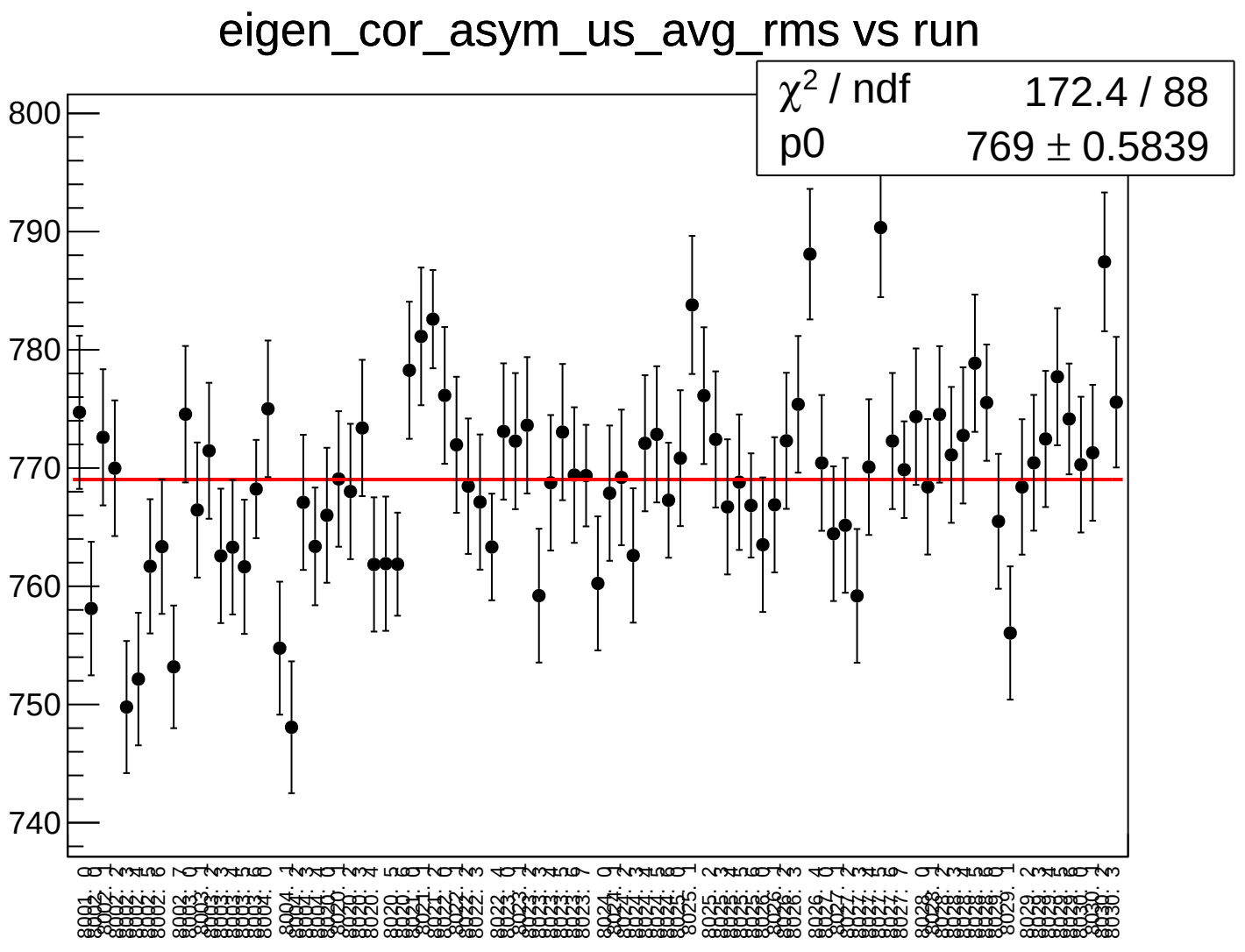

asym_us_avg_overload_cor_correction_mean vs run
χ² / ndf 97.26 / 88
p0 220.3 ± 1713
pull
Entries 89
Mean 152.8
Std Dev 0

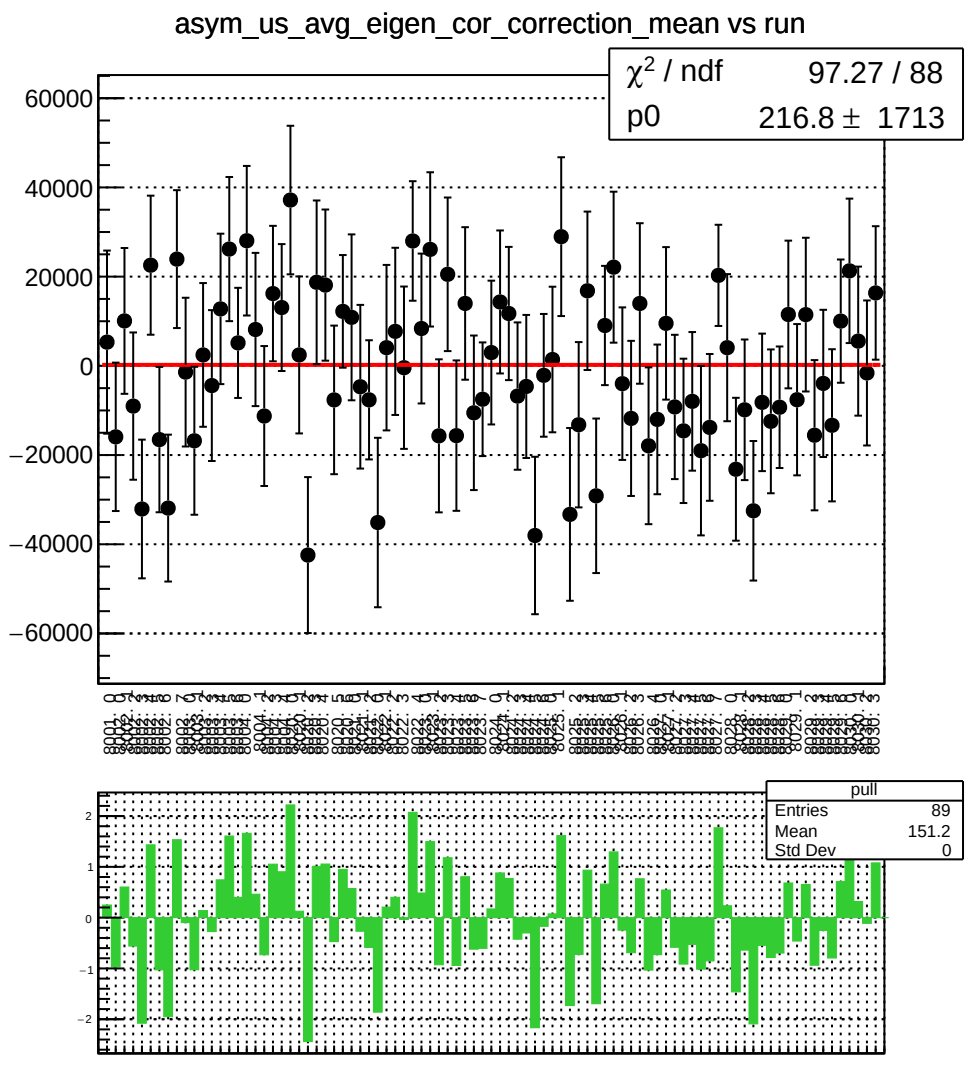

pull1D
Entries 89
Mean −0.02484
Std Dev 1.045

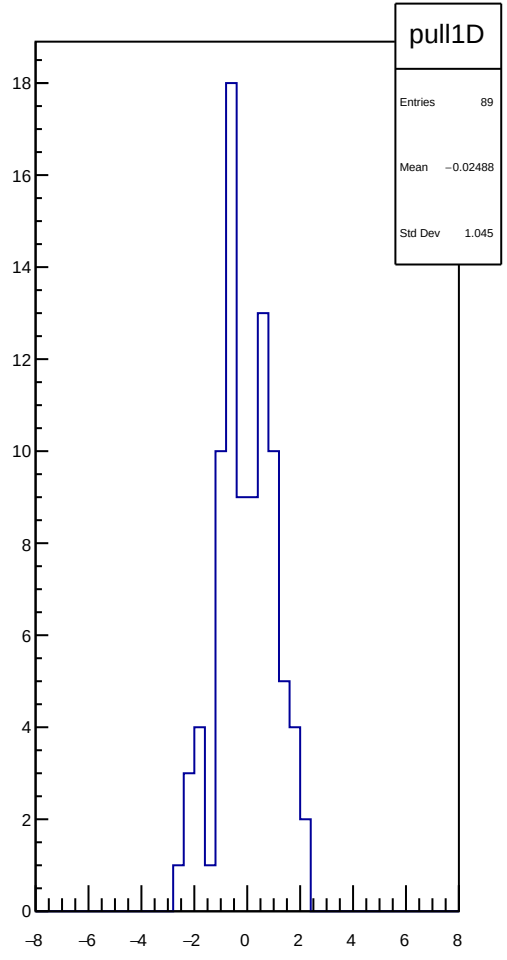

asym_us_avg_overload_cor_correction_rms vs run
χ² / ndf 5037 / 88
p0 1593 ± 1.212
1800
1700
1600
1500
1400

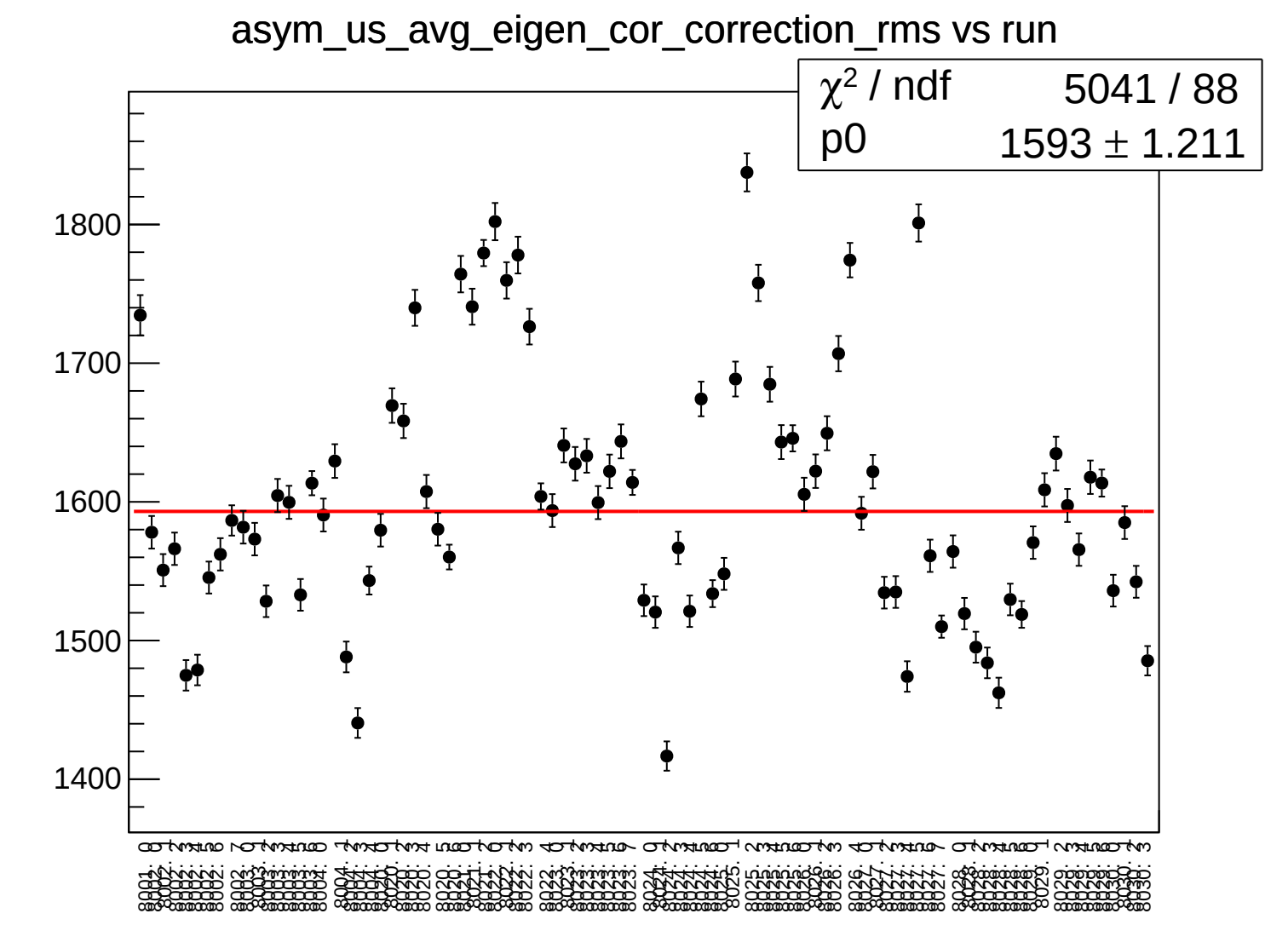

eigen_cor_asym_us_avg_mean vs run
χ² / ndf 89.23 / 88
p0 −2914 ± 825.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 37.69
Std Dev 63.63
2
1
0
−1
−2

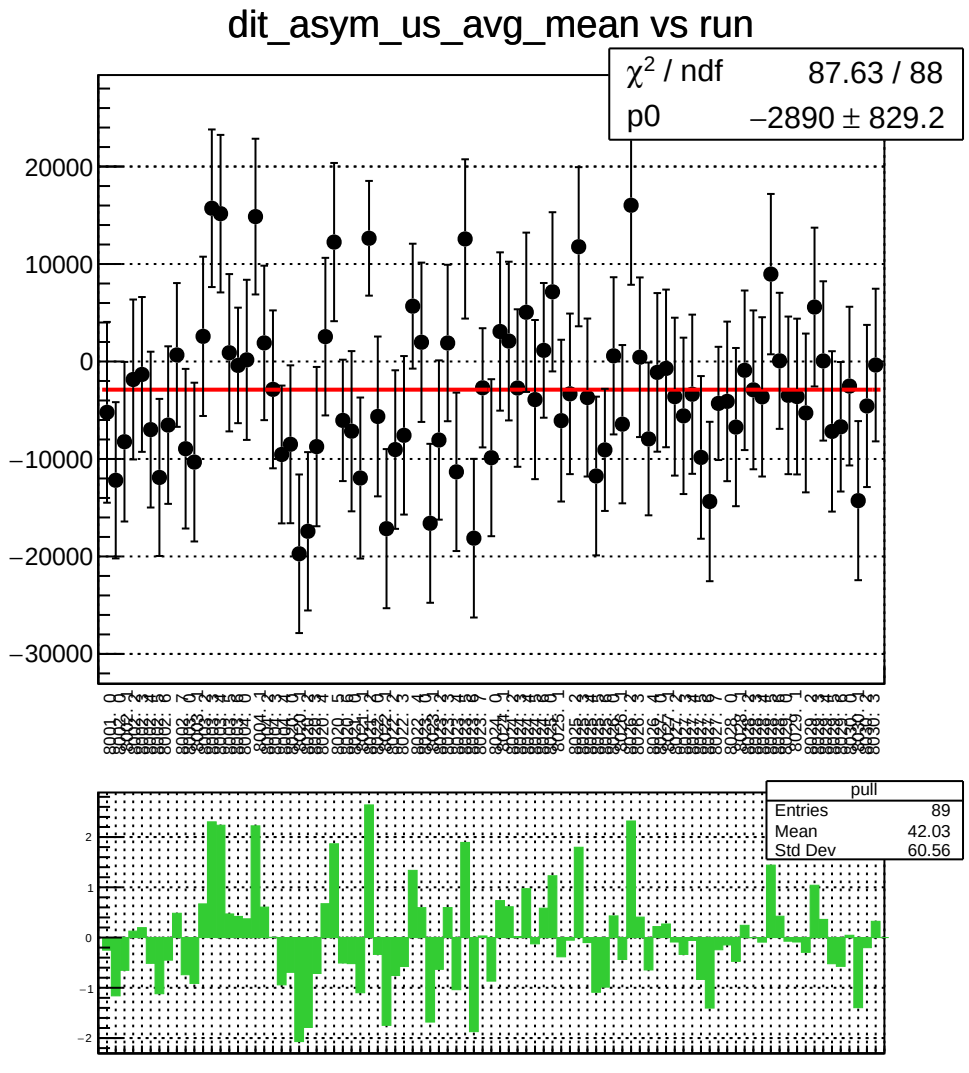

pull1D
Entries 89
Mean −0.01126
Std Dev 1.001
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

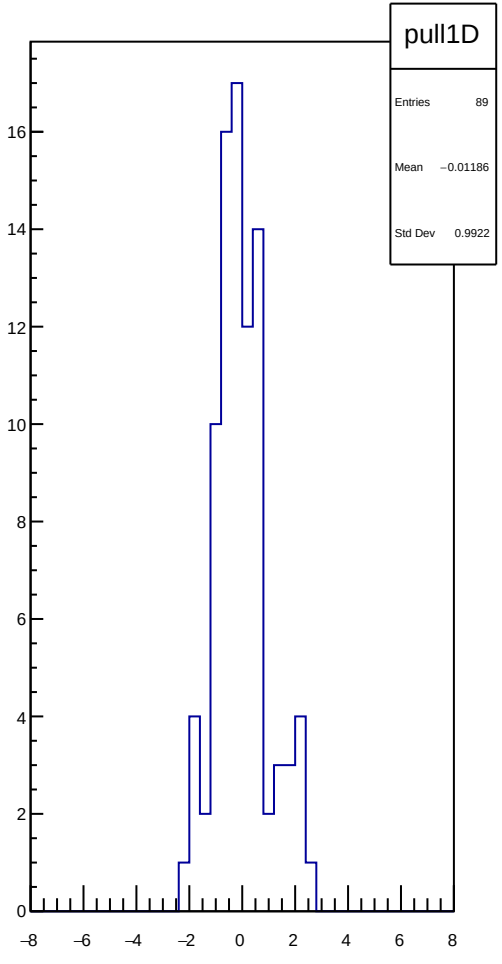

eigen_cor_asym_us_avg_rms vs run
χ^2 / ndf 172.4 / 88
p0 769 ± 0.5839
800
790
780
770
760
750
740

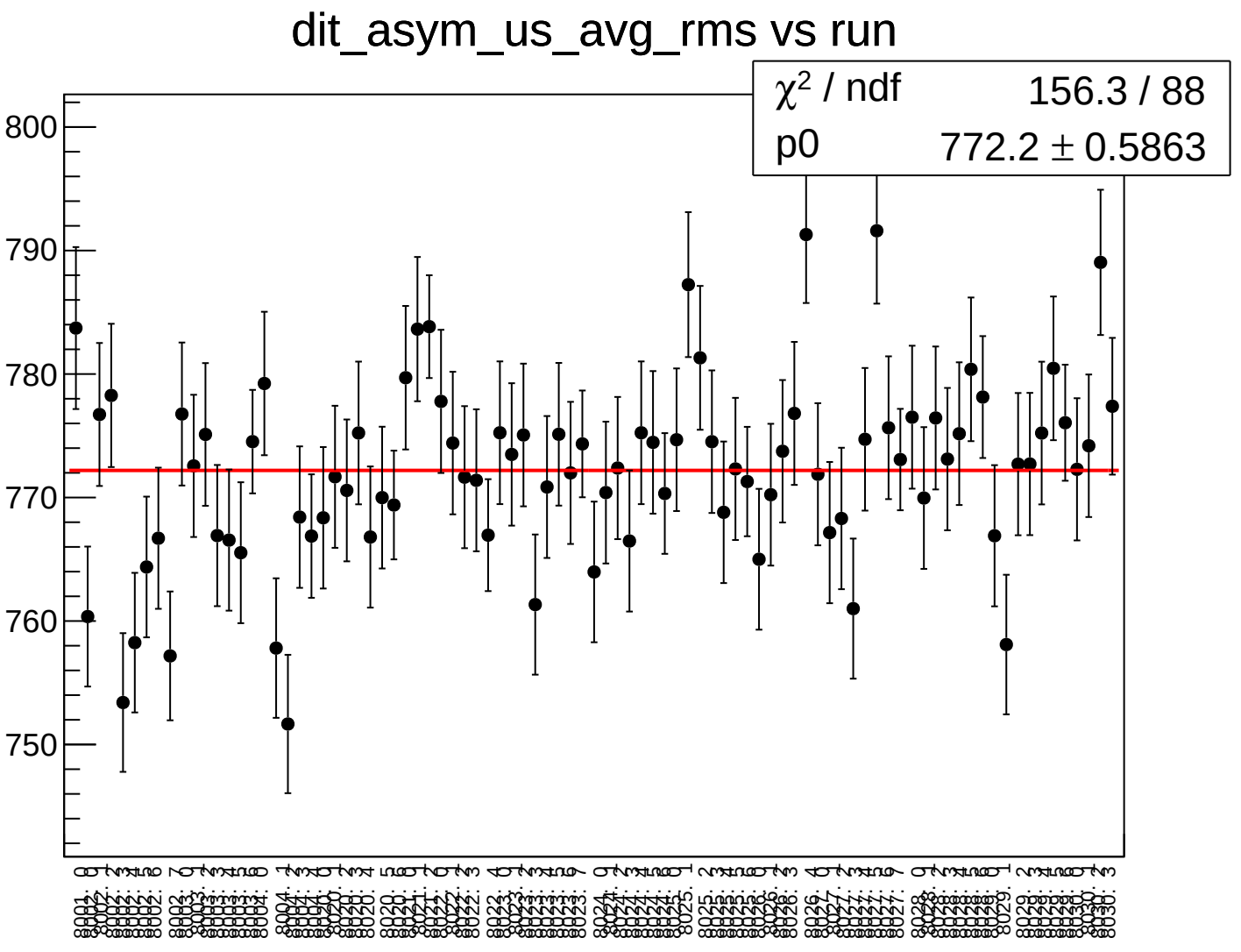

asym_us_avg_eigen_cor_correction_mean vs run
χ² / ndf 97.27 / 88
p0 216.8 ± 1713
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 151.2
Std Dev 0
2
1
0
−1
−2

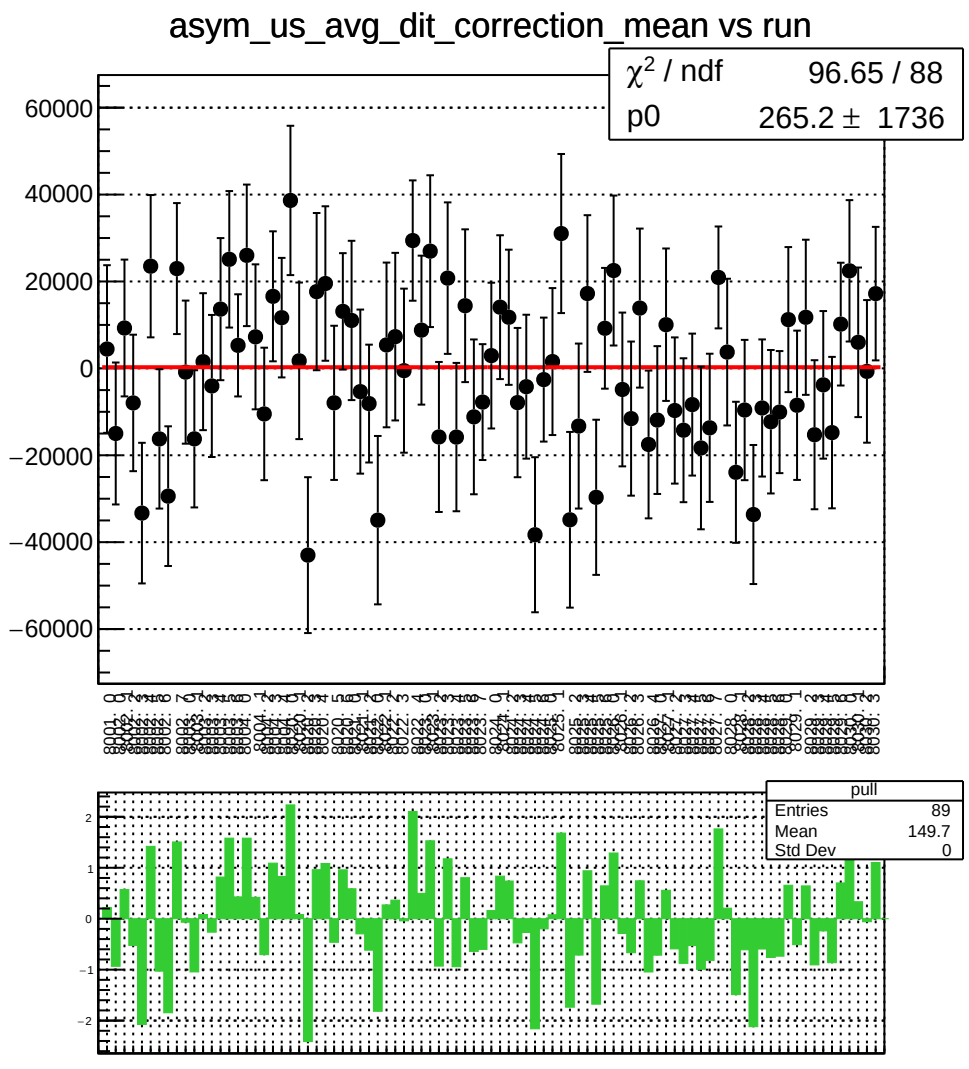

pull1D
Entries 89
Mean −0.02488
Std Dev 1.045
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

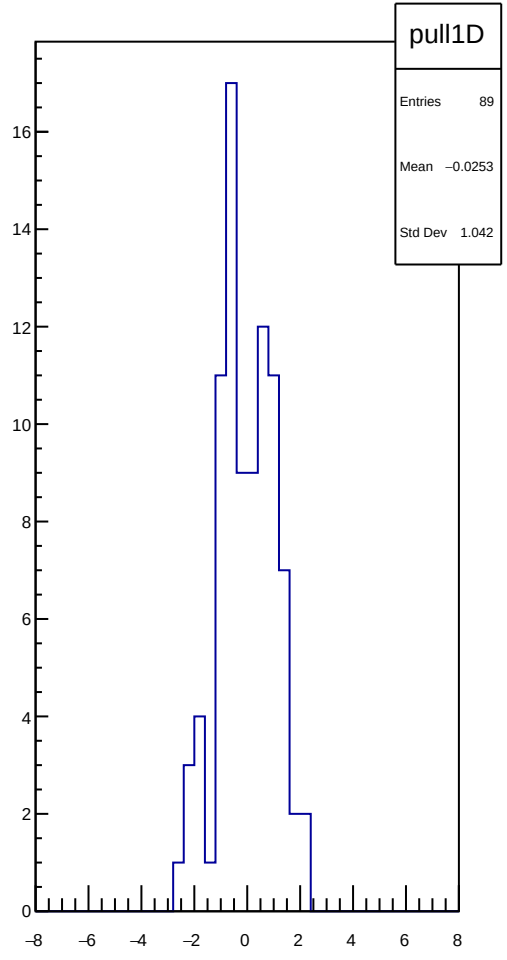

asym_us_avg_eigen_cor_correction_rms vs run
χ² / ndf 5041 / 88
p0 1593 ± 1.211
1800
1700
1600
1500
1400

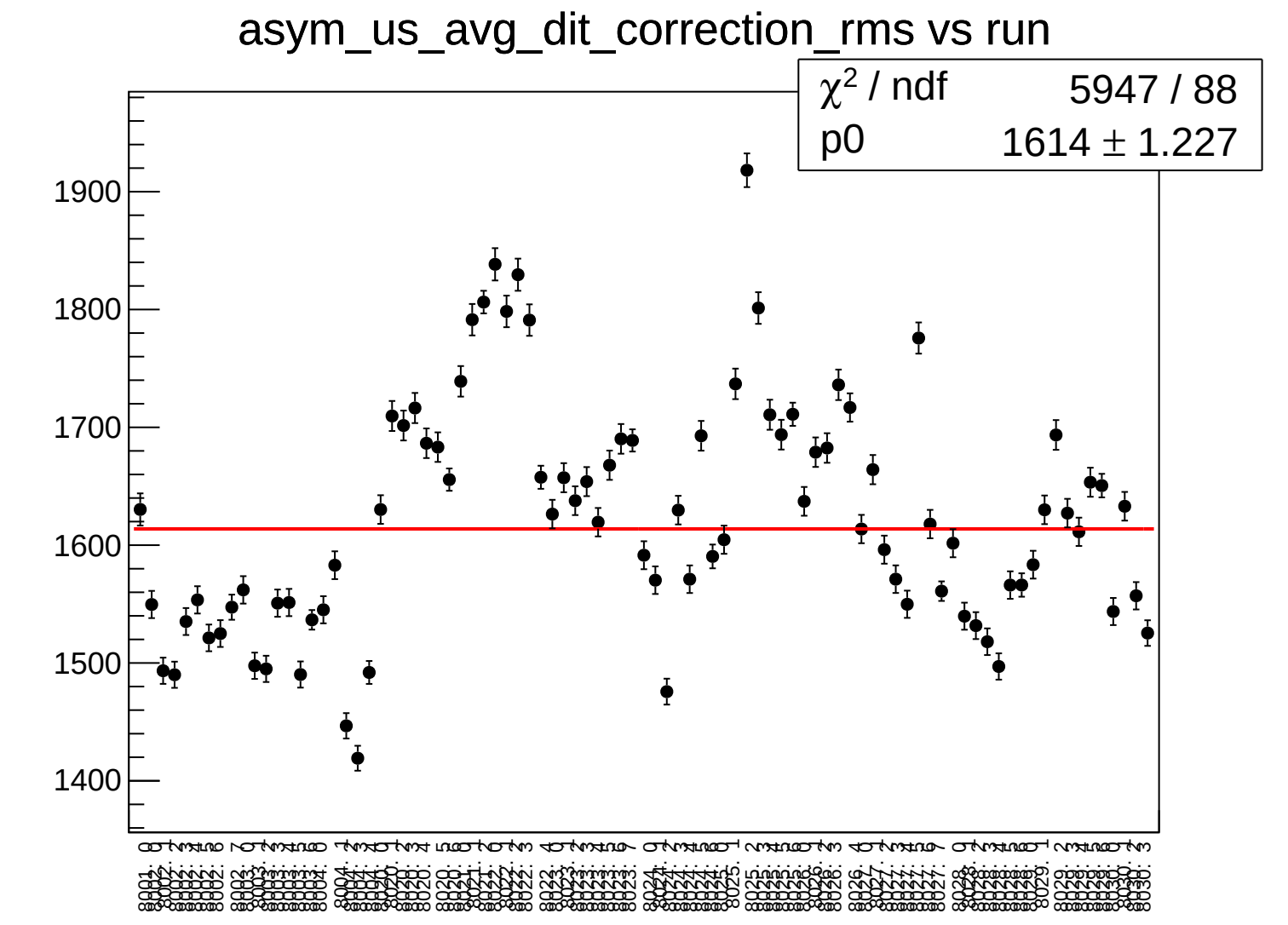

dit_asym_us_avg_mean vs run
χ² / ndf 87.63 / 88
p0 −2890 ± 829.2
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 42.03
Std Dev 60.56
2
1
0
−1
−2

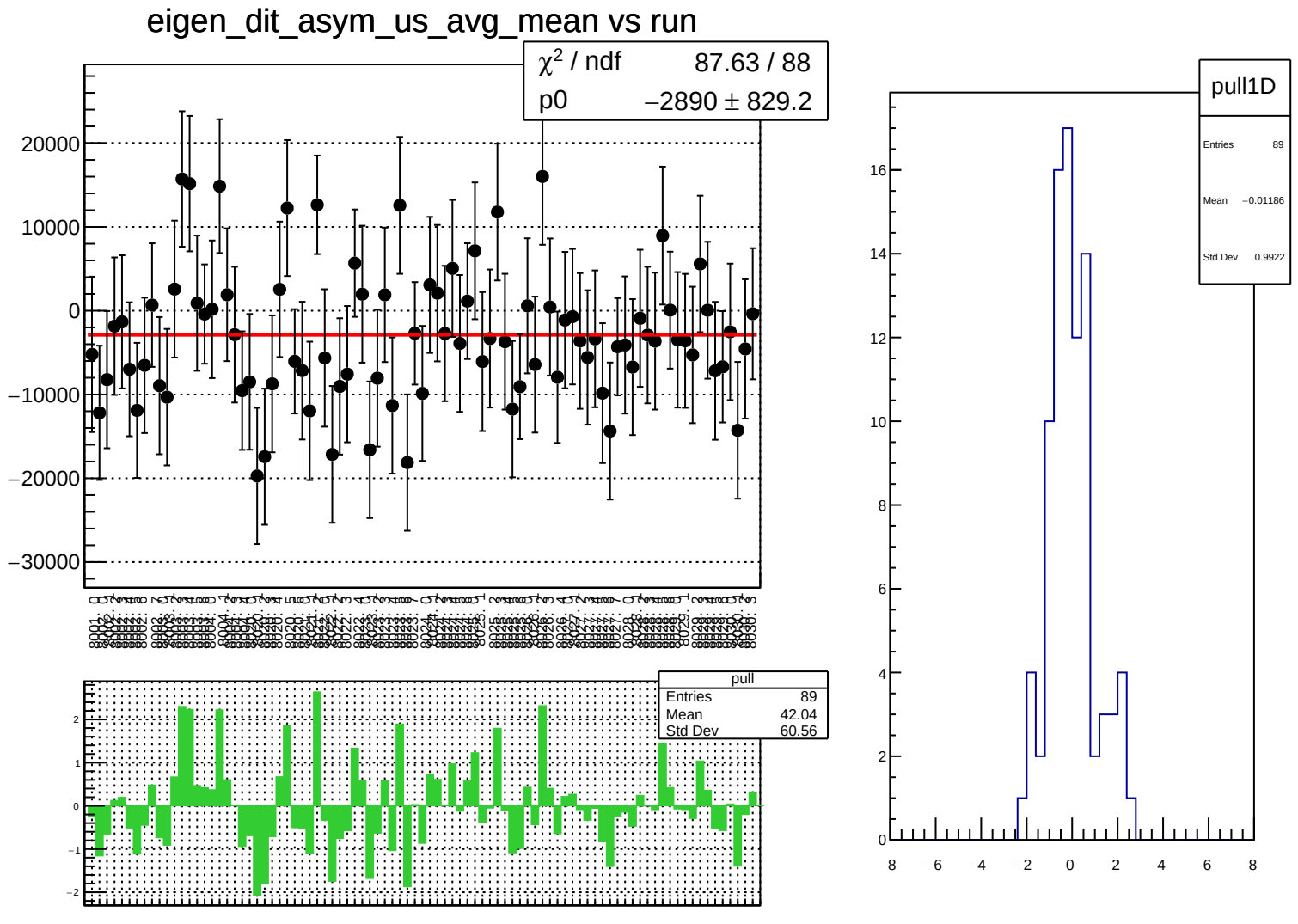

pull1D
Entries 89
Mean −0.01186
Std Dev 0.9922
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

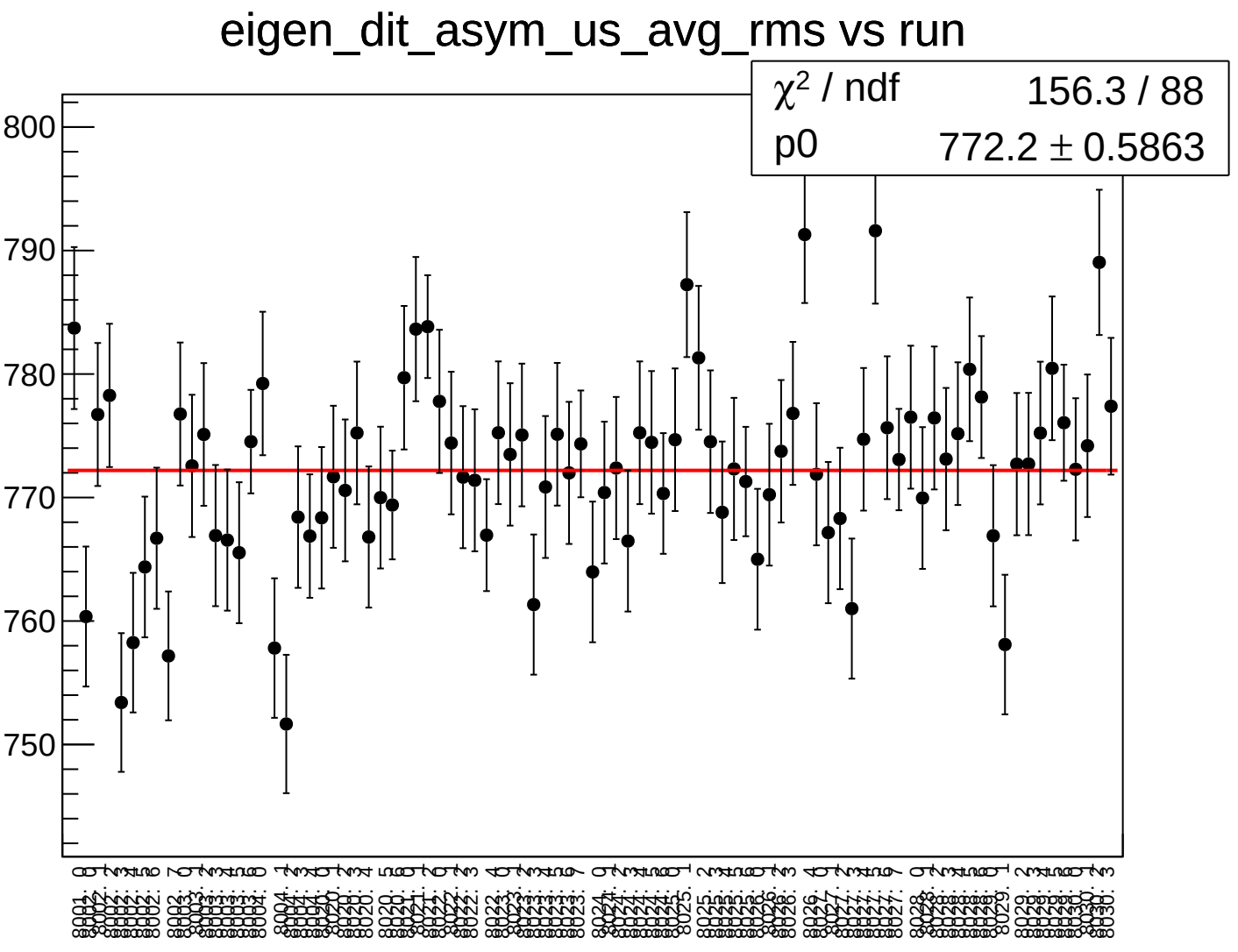

dit_asym_us_avg_rms vs run
χ² / ndf 156.3 / 88
p0 772.2 ± 0.5863
800
790
780
770
760
750

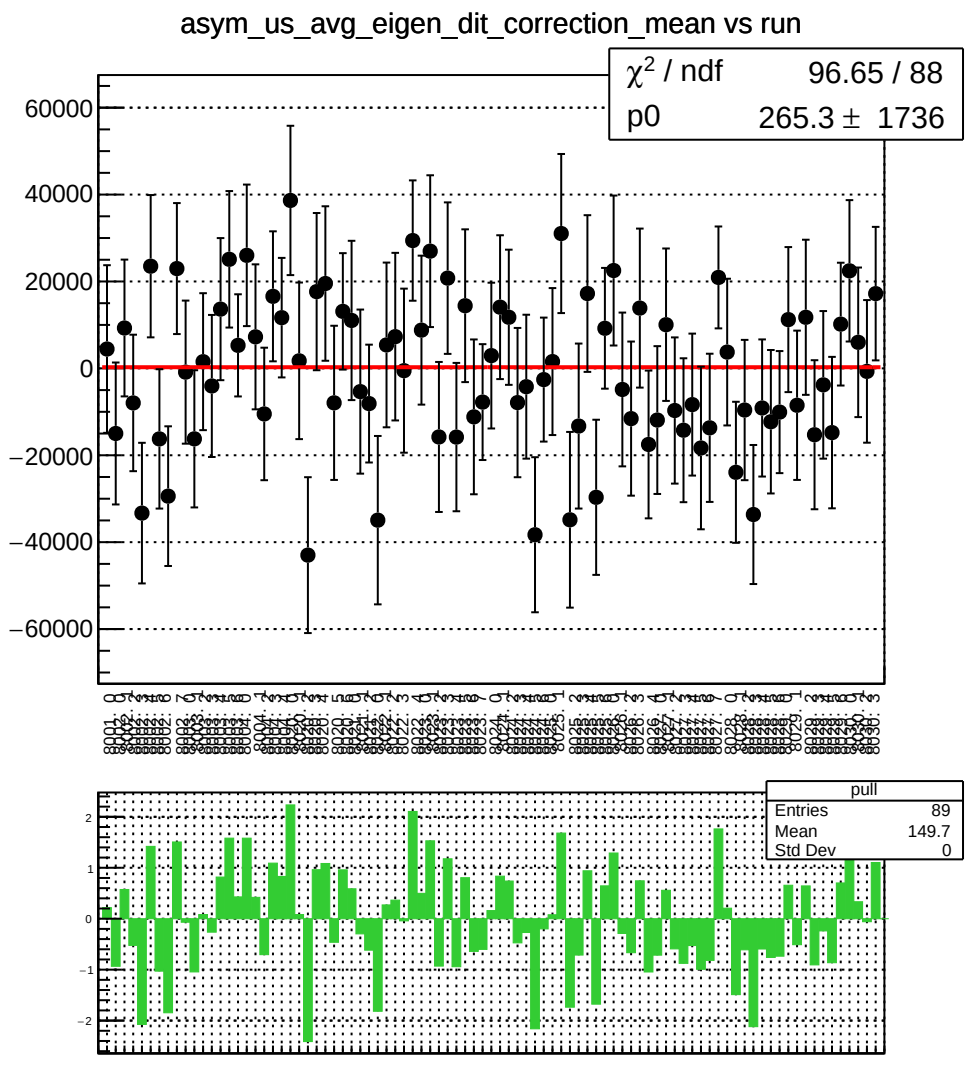

asym_us_avg_dit_correction_mean vs run
χ² / ndf 96.65 / 88
p0 265.2 ± 1736
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 149.7
Std Dev 0
2
1
0
−1
−2

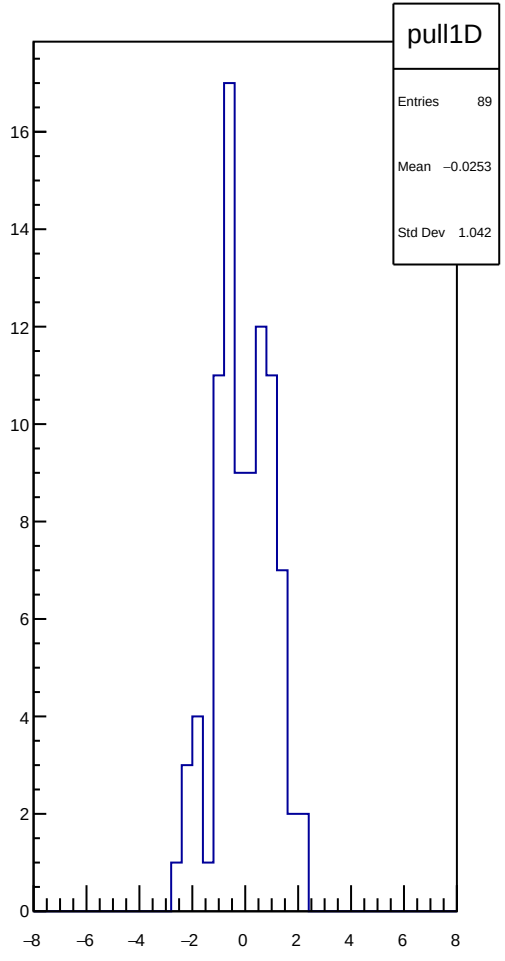

pull1D
Entries 89
Mean −0.0253
Std Dev 1.042
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

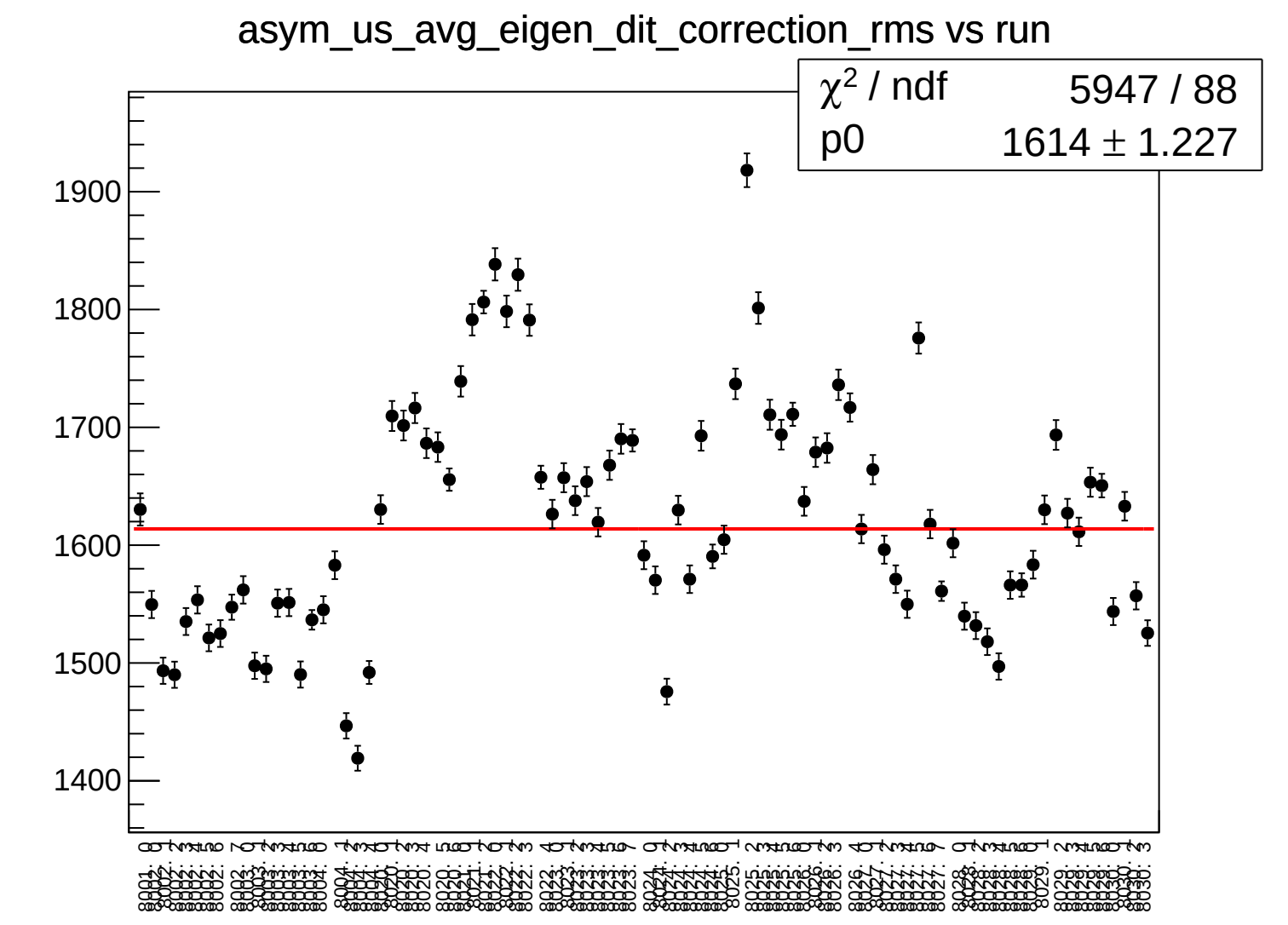

asym_us_avg_dit_correction_rms vs run
χ² / ndf 5947 / 88
p0 1614 ± 1.227
1900
1800
1700
1600
1500
1400

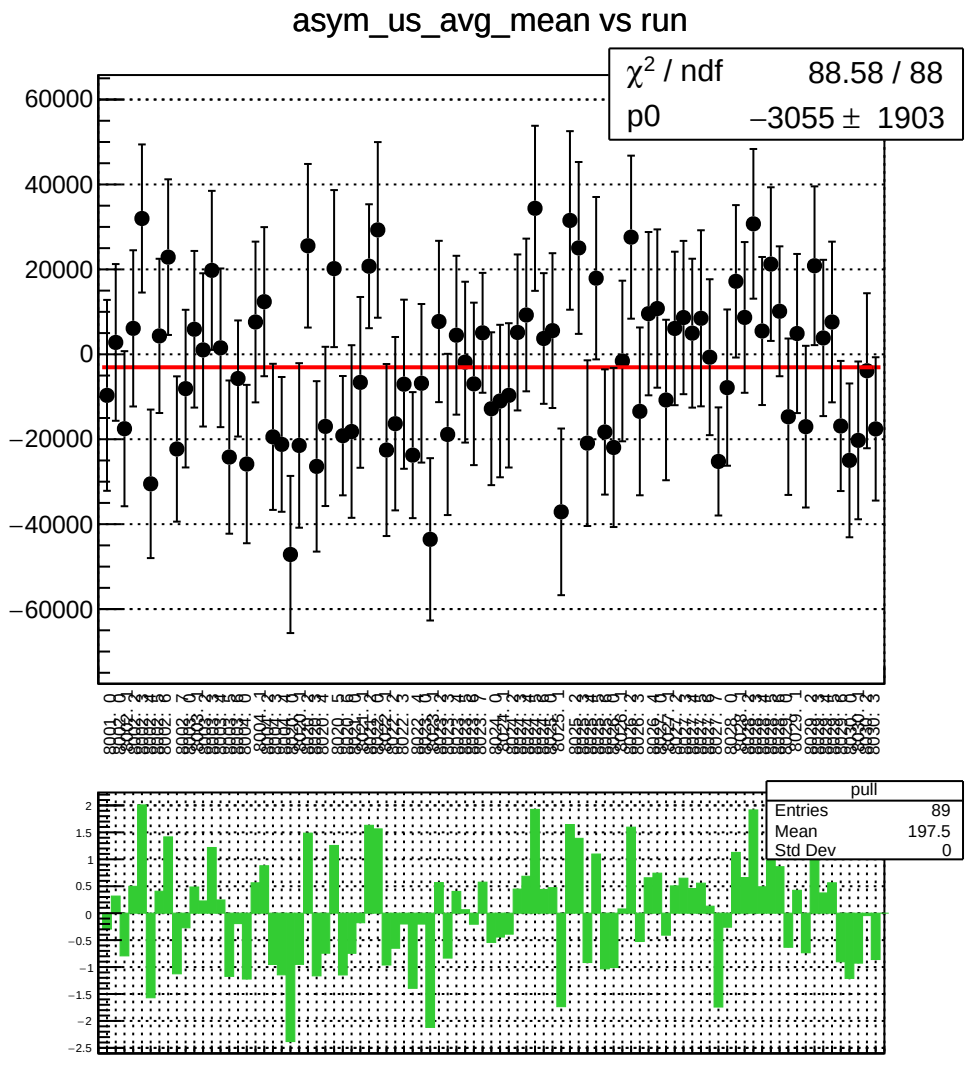

eigen_dit_asym_us_avg_mean vs run
χ² / ndf 87.63 / 88
p0 −2890 ± 829.2
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 42.04
Std Dev 60.56
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.01186
Std Dev 0.9922
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

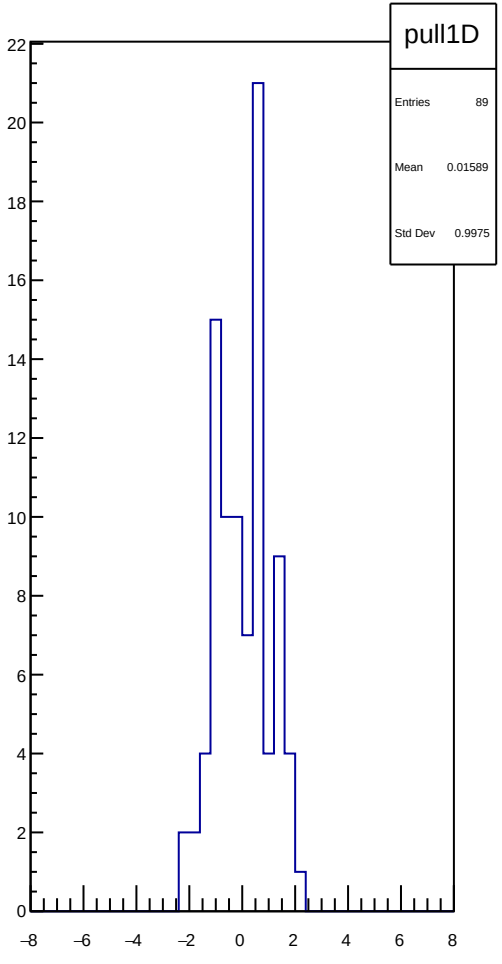

eigen_dit_asym_us_avg_rms vs run
χ² / ndf 156.3 / 88
p0 772.2 ± 0.5863
800
790
780
770
760
750

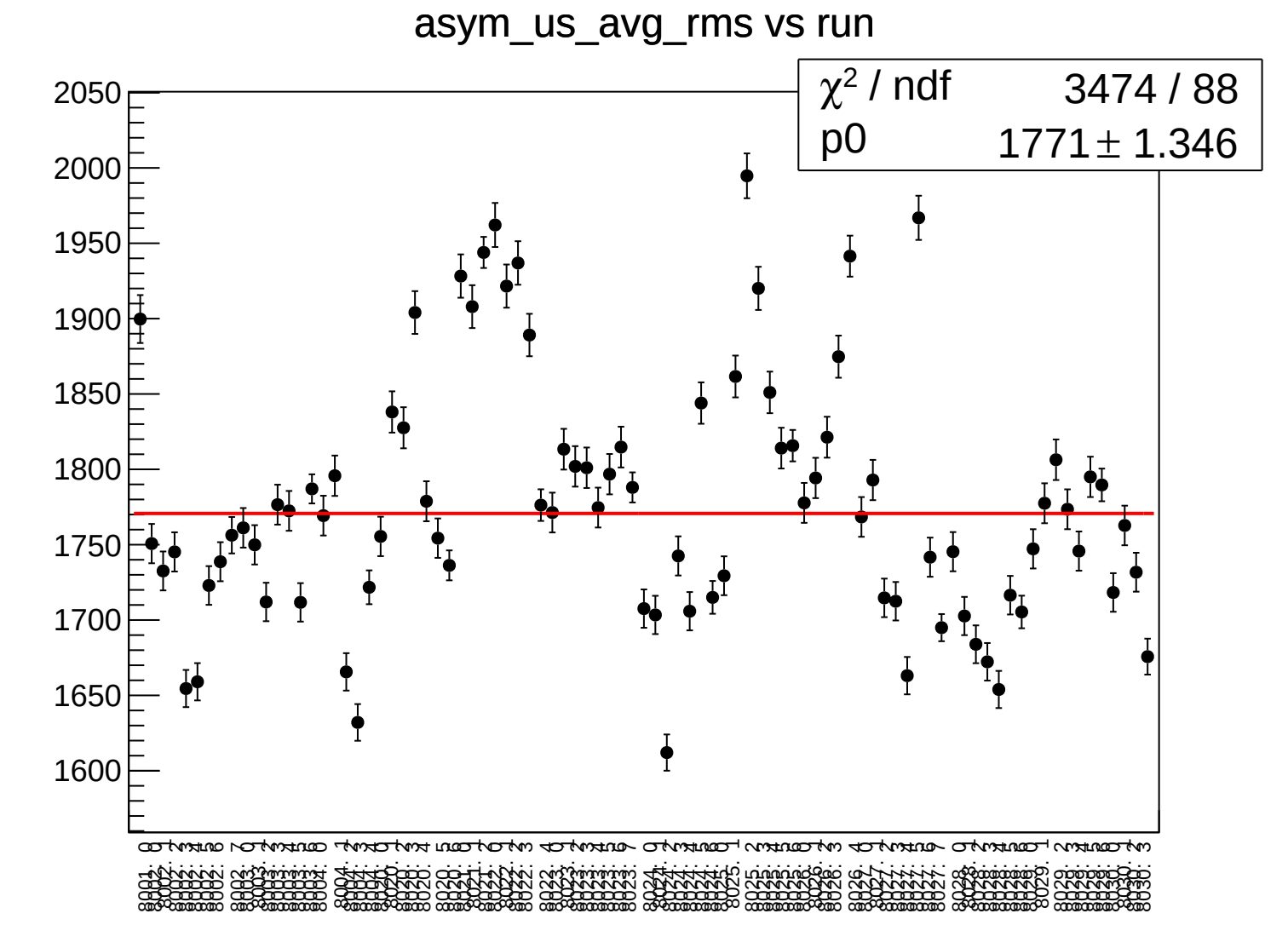

asym_us_avg_eigen_dit_correction_mean vs run
χ² / ndf 96.65 / 88
p0 265.3 ± 1736
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 149.7
Std Dev 0
2
1
0
−1
−2

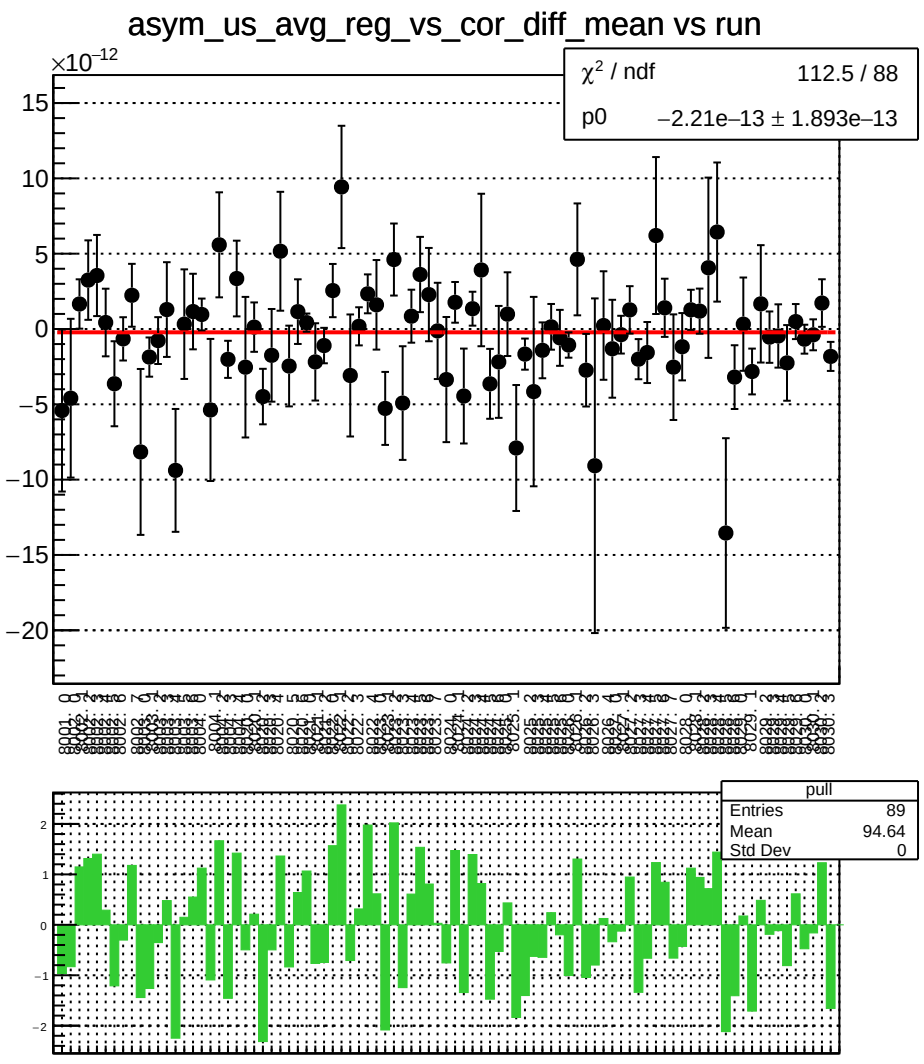

pull1D
Entries 89
Mean −0.0253
Std Dev 1.042
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

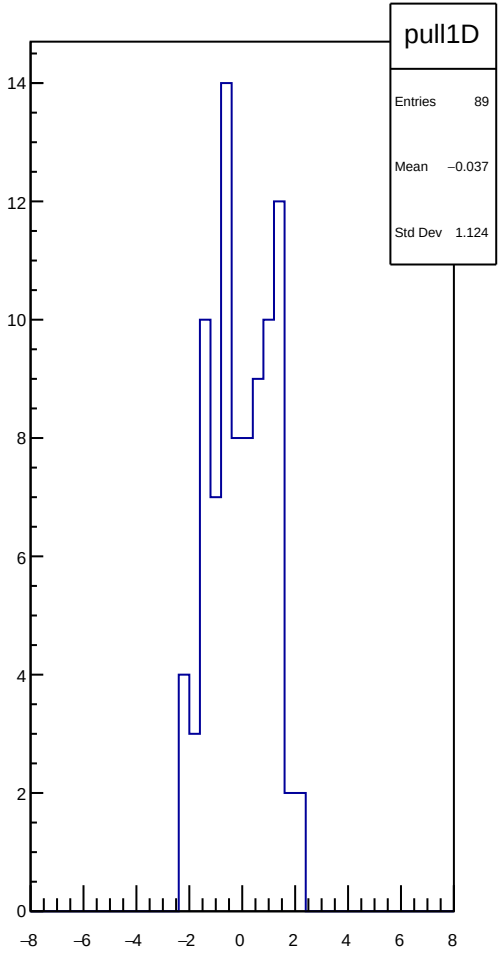

asym_us_avg_eigen_dit_correction_rms vs run
χ² / ndf 5947 / 88
p0 1614 ± 1.227
1900
1800
1700
1600
1500
1400

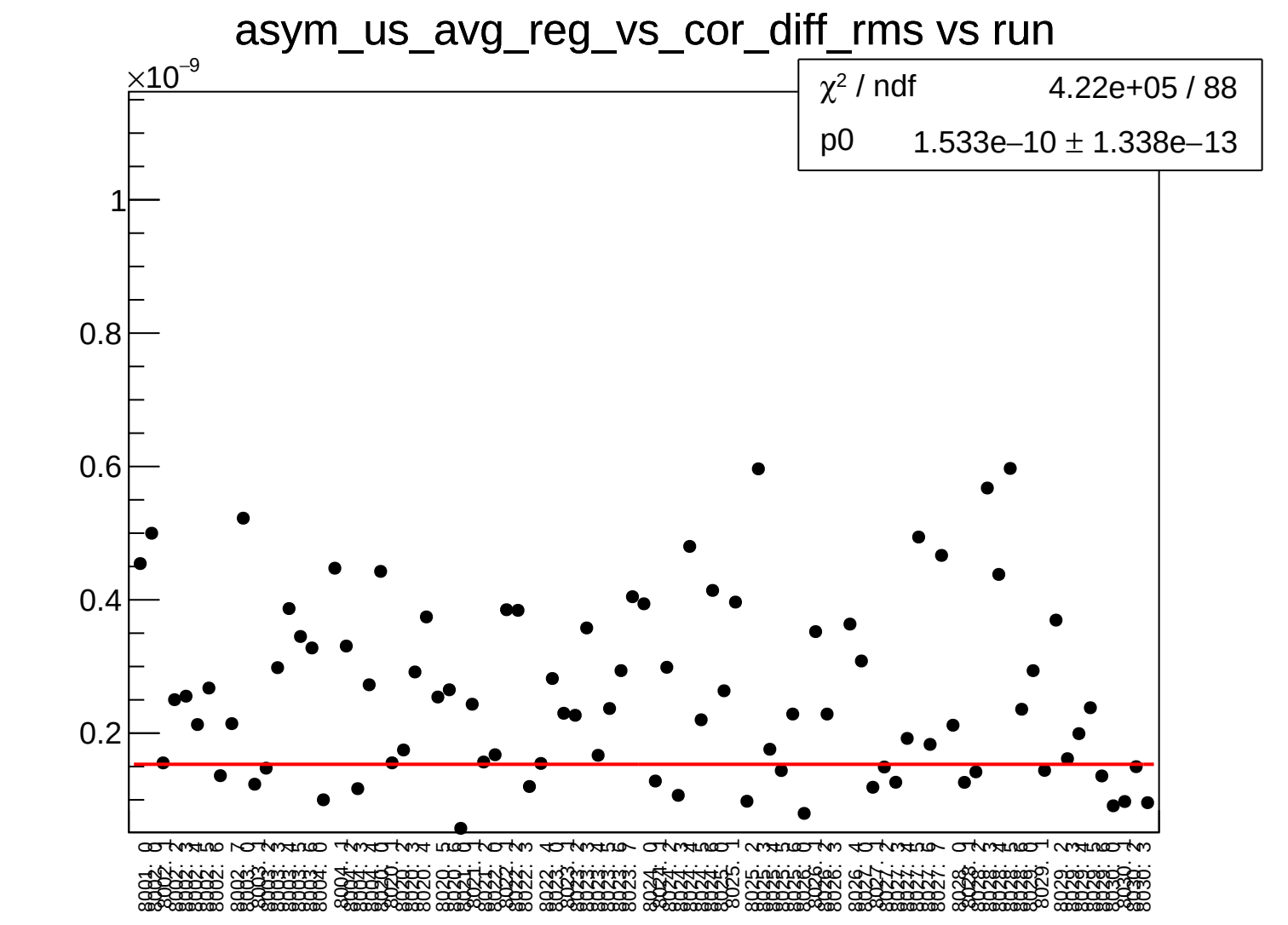

asym_us_avg_mean vs run
χ² / ndf 88.58 / 88
p0 −3055 ± 1903
pull
Entries 89
Mean 197.5
Std Dev 0

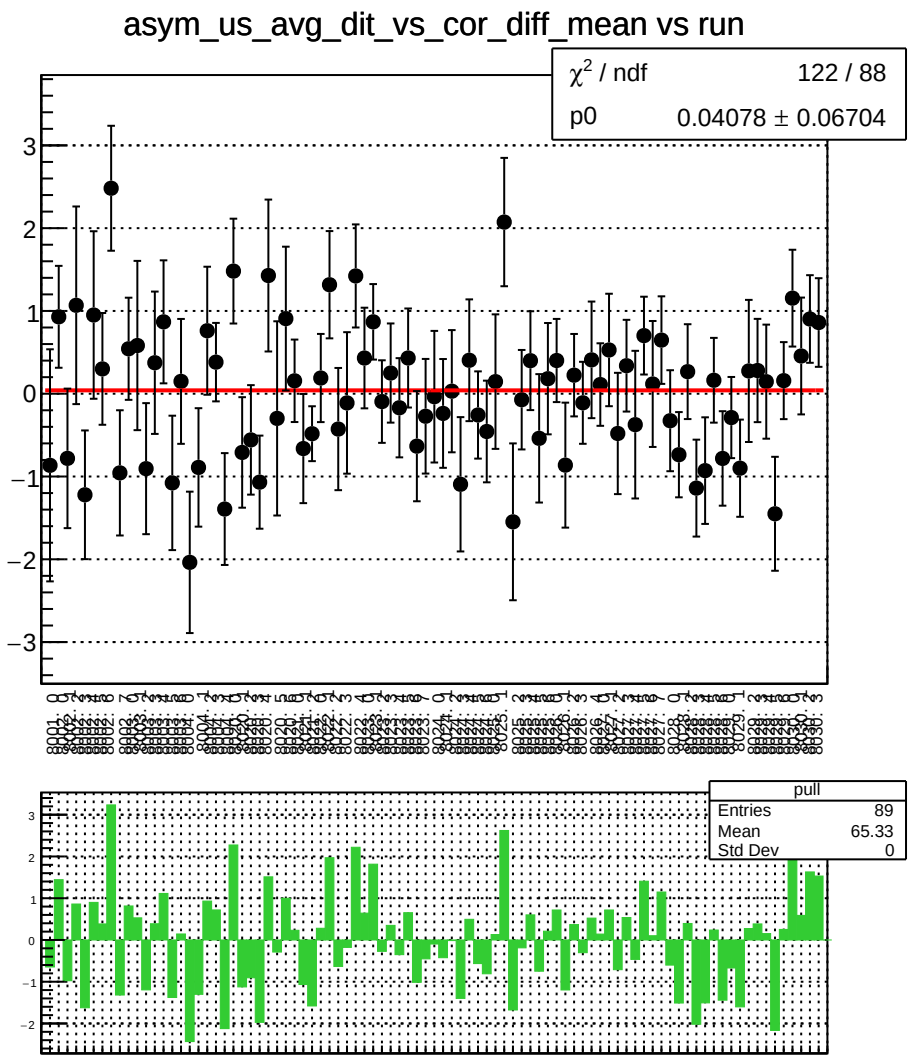

pull1D
Entries 89
Mean 0.01589
Std Dev 0.9975

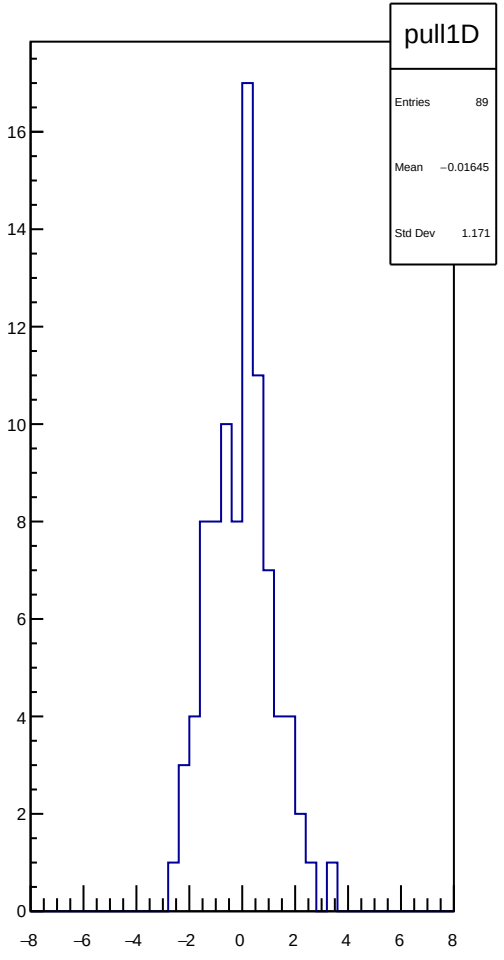

asym_us_avg_rms vs run
χ² / ndf 3474 / 88
p0 1771 ± 1.346
2050
2000
1950
1900
1850
1800
1750
1700
1650
1600

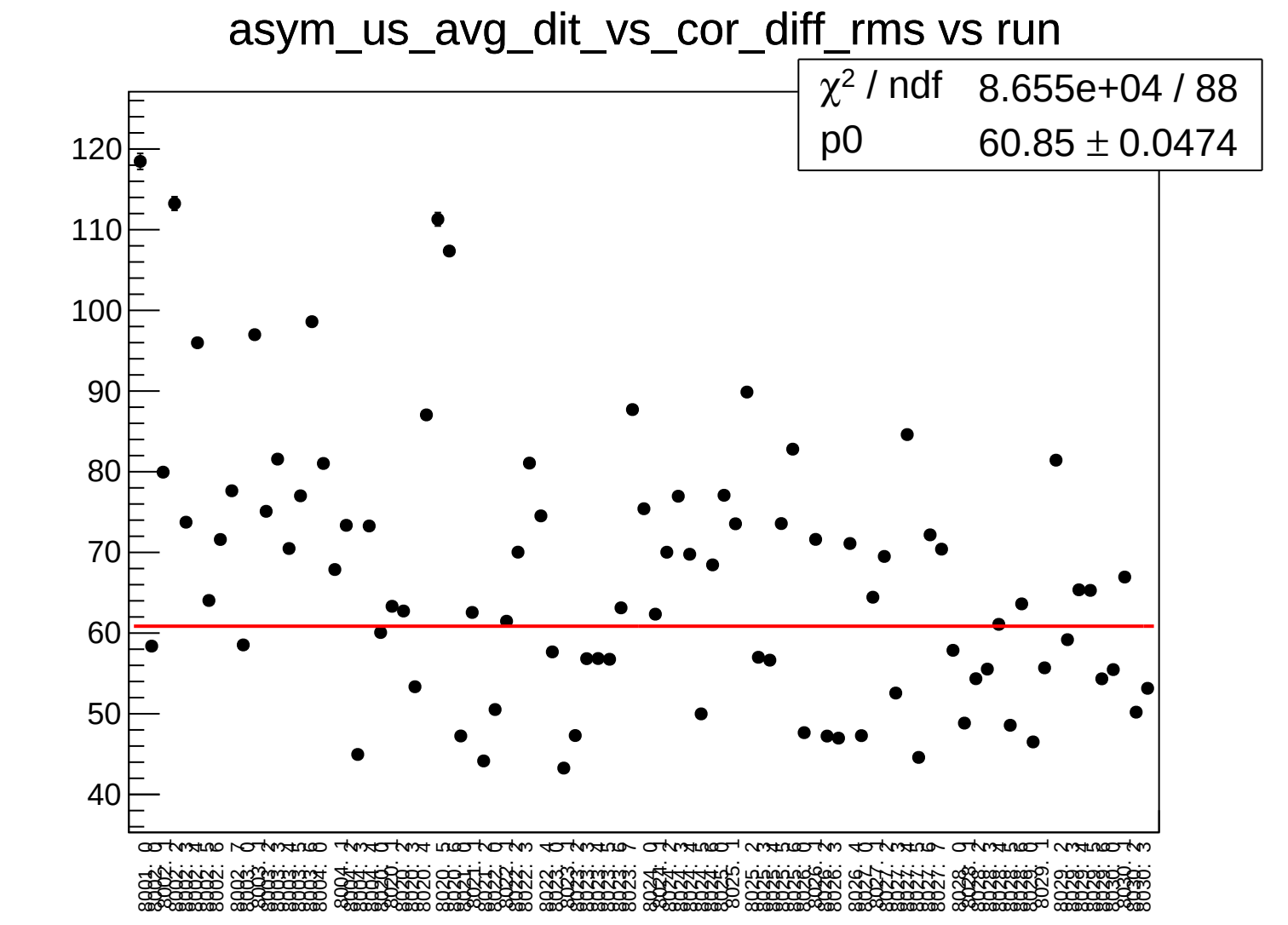

asym_us_avg_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 112.5 / 88
p0 −2.21e−13 ± 1.893e−13
pull
Entries 89
Mean 94.64
Std Dev 0


pull1D
Entries 89
Mean −0.037
Std Dev 1.124

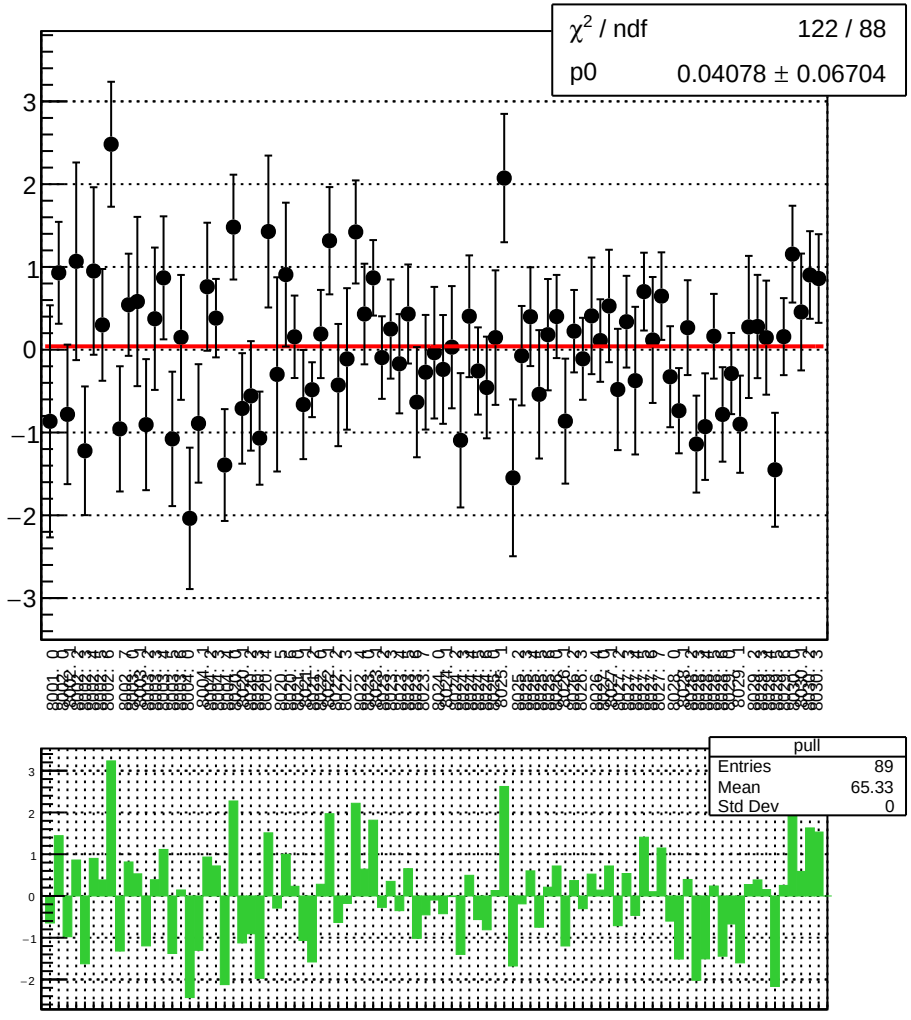

asym_us_avg_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.22e+05 / 88
p0 1.533e−10 ± 1.338e−13
1
0.8
0.6
0.4
0.2

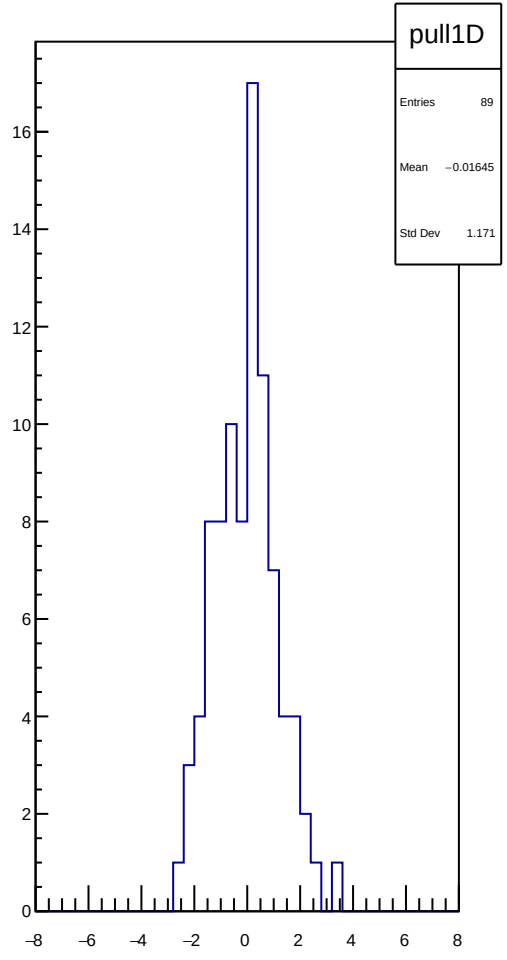

asym_us_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 122 / 88
p0 0.04078 ± 0.06704
pull
Entries 89
Mean 65.33
Std Dev 0

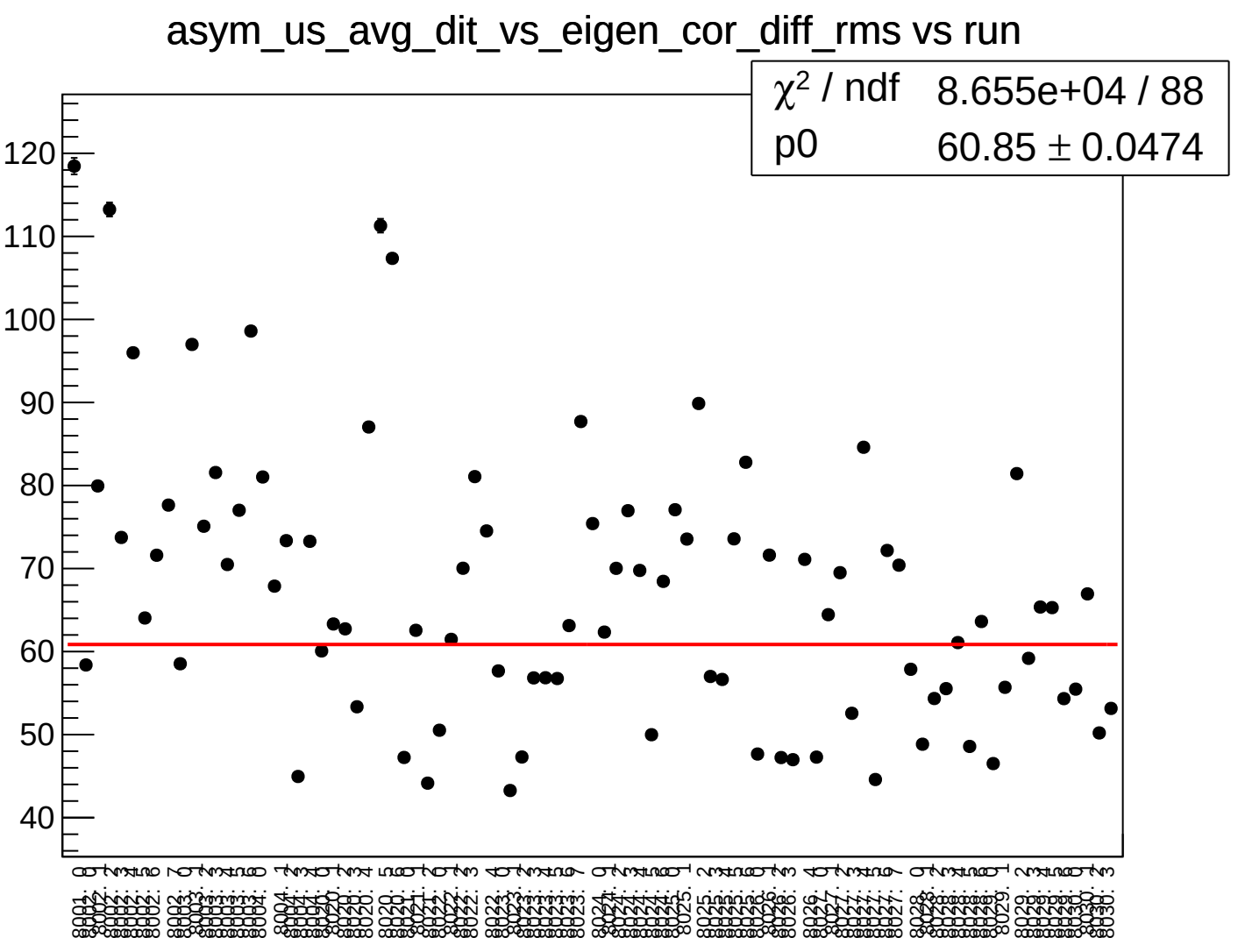

pull1D
Entries 89
Mean −0.01645
Std Dev 1.171

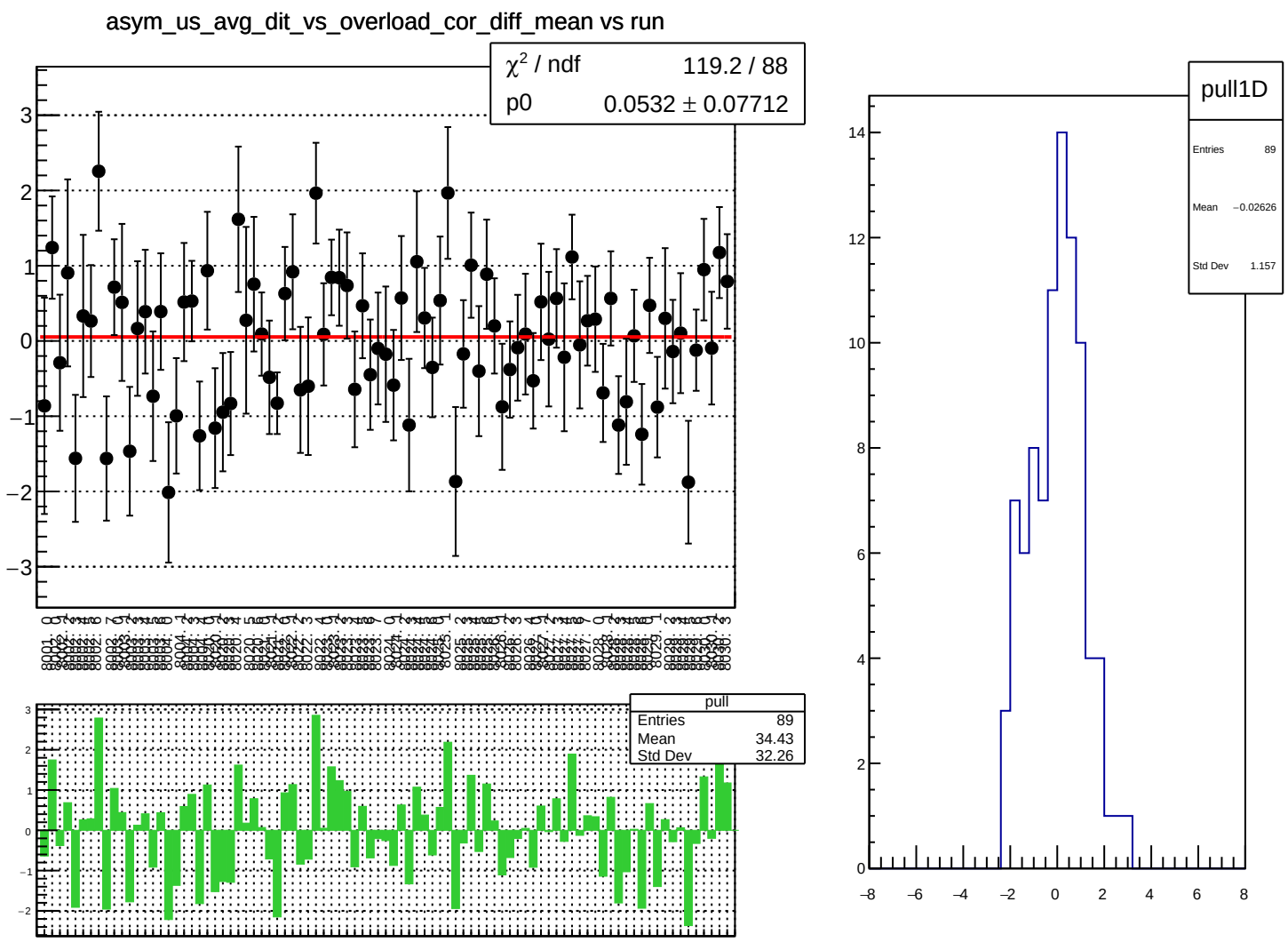

asym_us_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.655e+04 / 88
p0 60.85 ± 0.0474
120
110
100
90
80
70
60
50
40

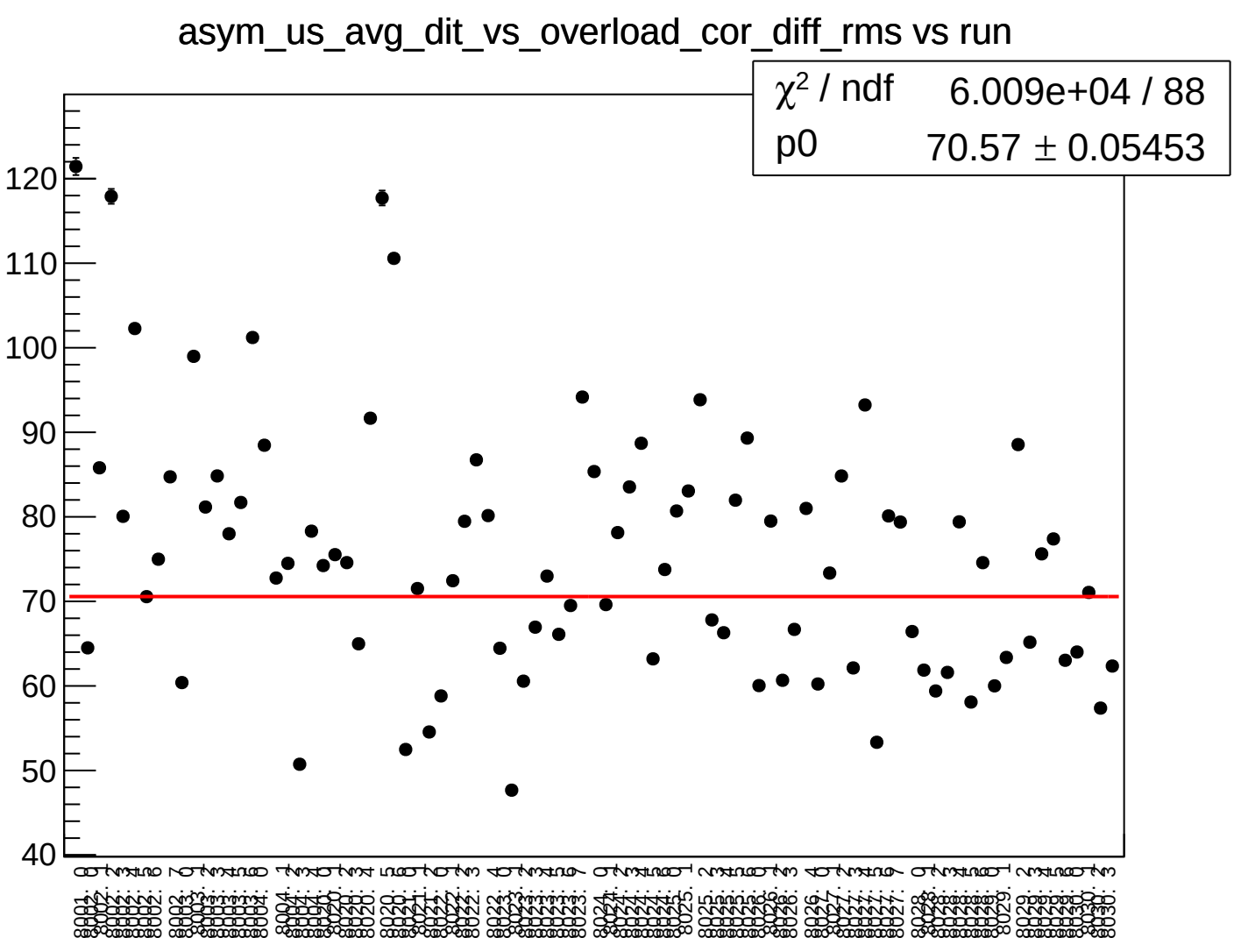
asym_us_avg_dit_vs_eigen_cor_diff_mean vs run

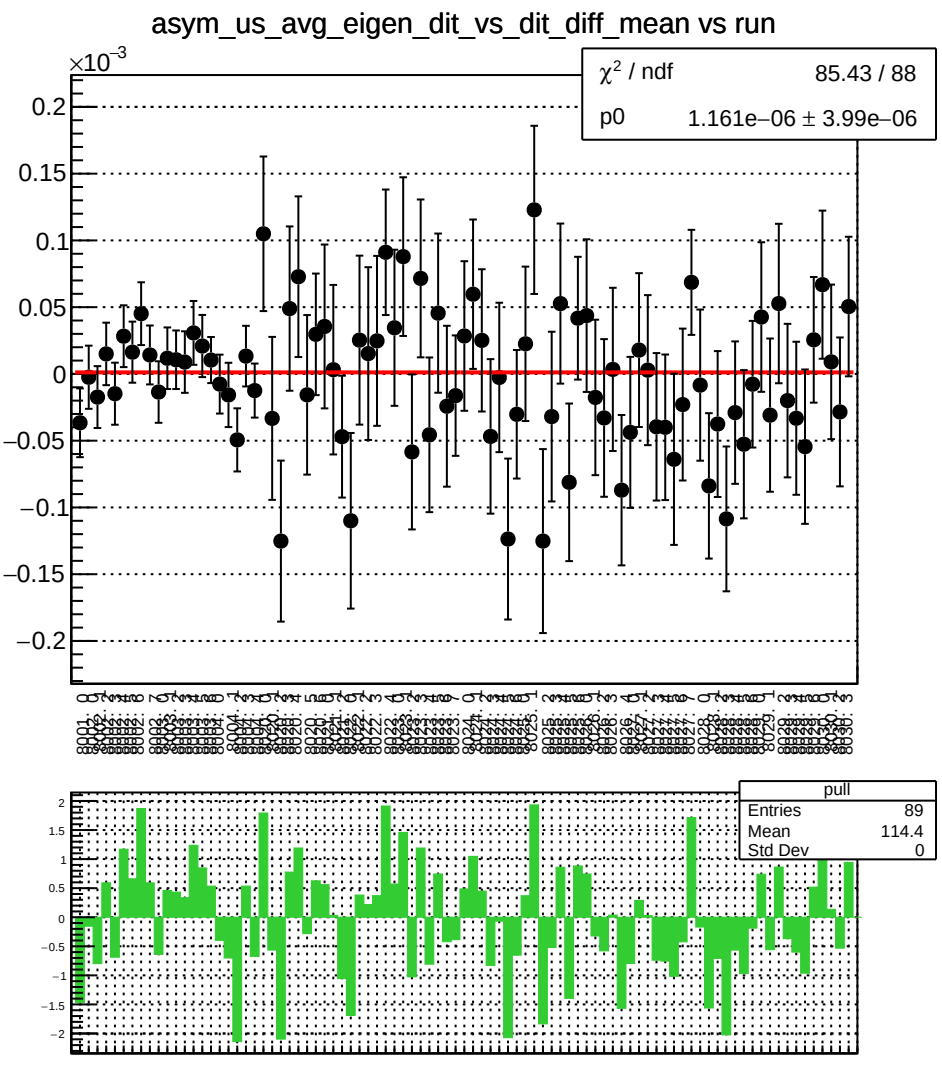


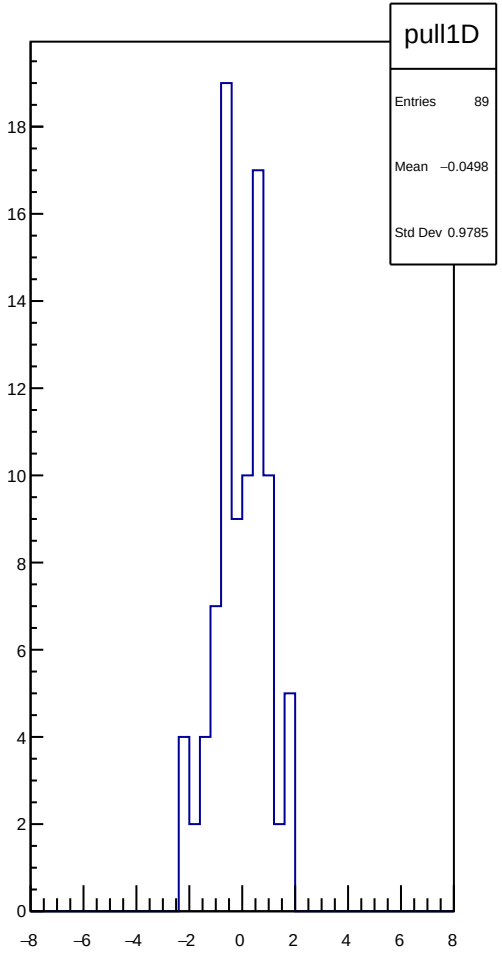


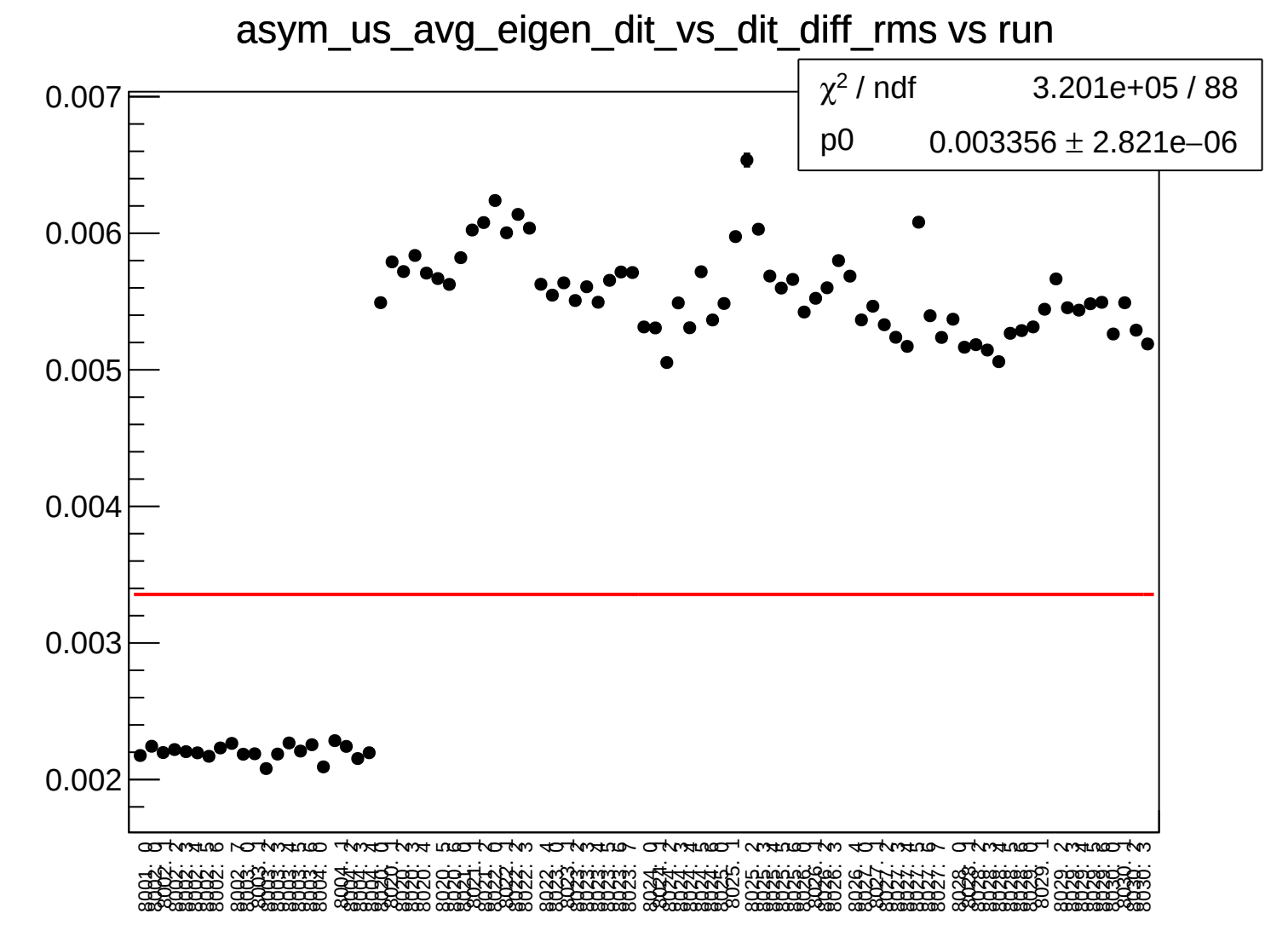

asym_us_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.655e+04 / 88
p0 60.85 ± 0.0474
120
110
100
90
80
70
60
50
40

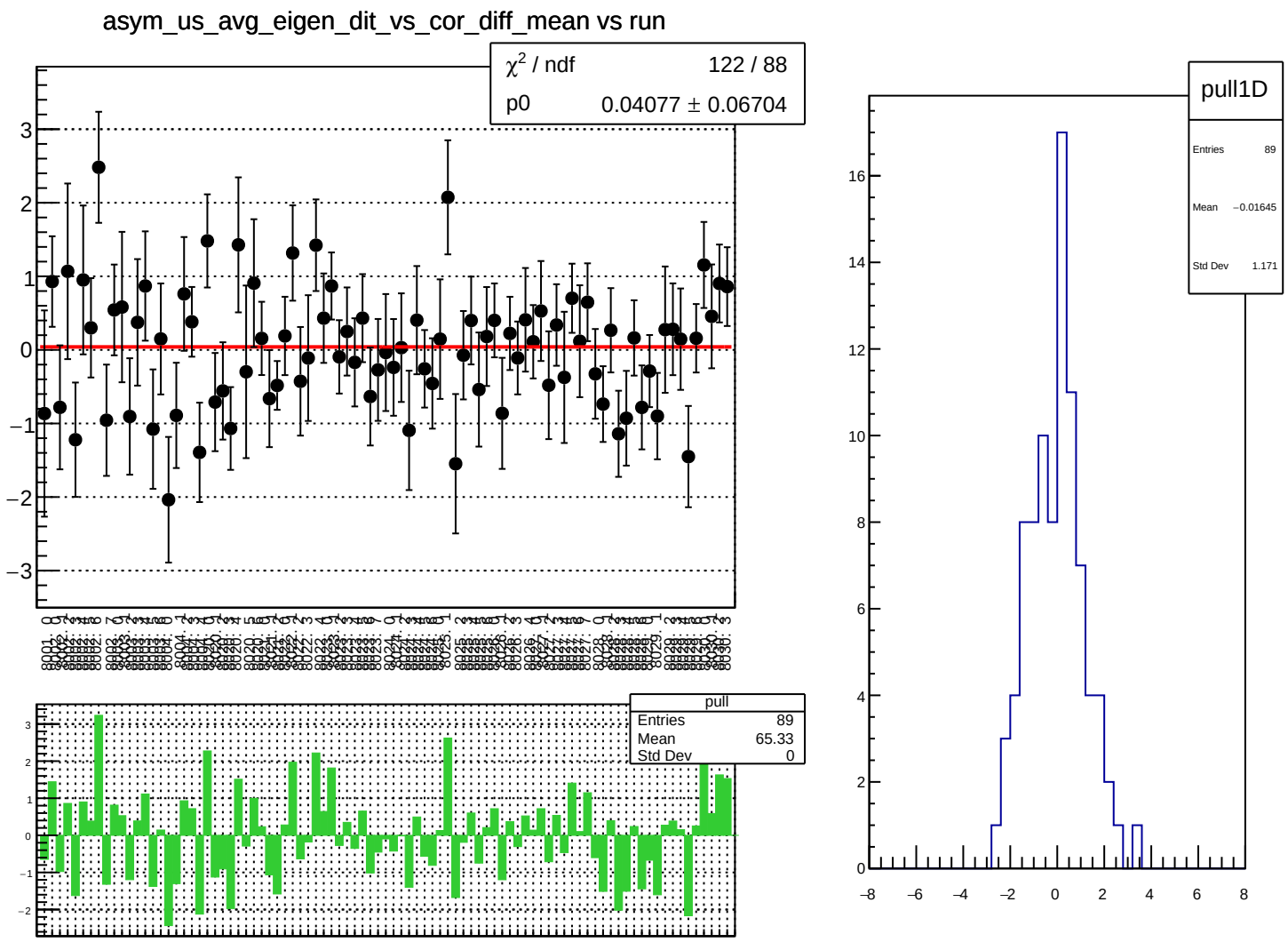

asym_us_avg_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 119.2 / 88
p0 0.0532 ± 0.07712
pull
Entries 89
Mean 34.43
Std Dev 32.26
pull1D
Entries 89
Mean −0.02626
Std Dev 1.157

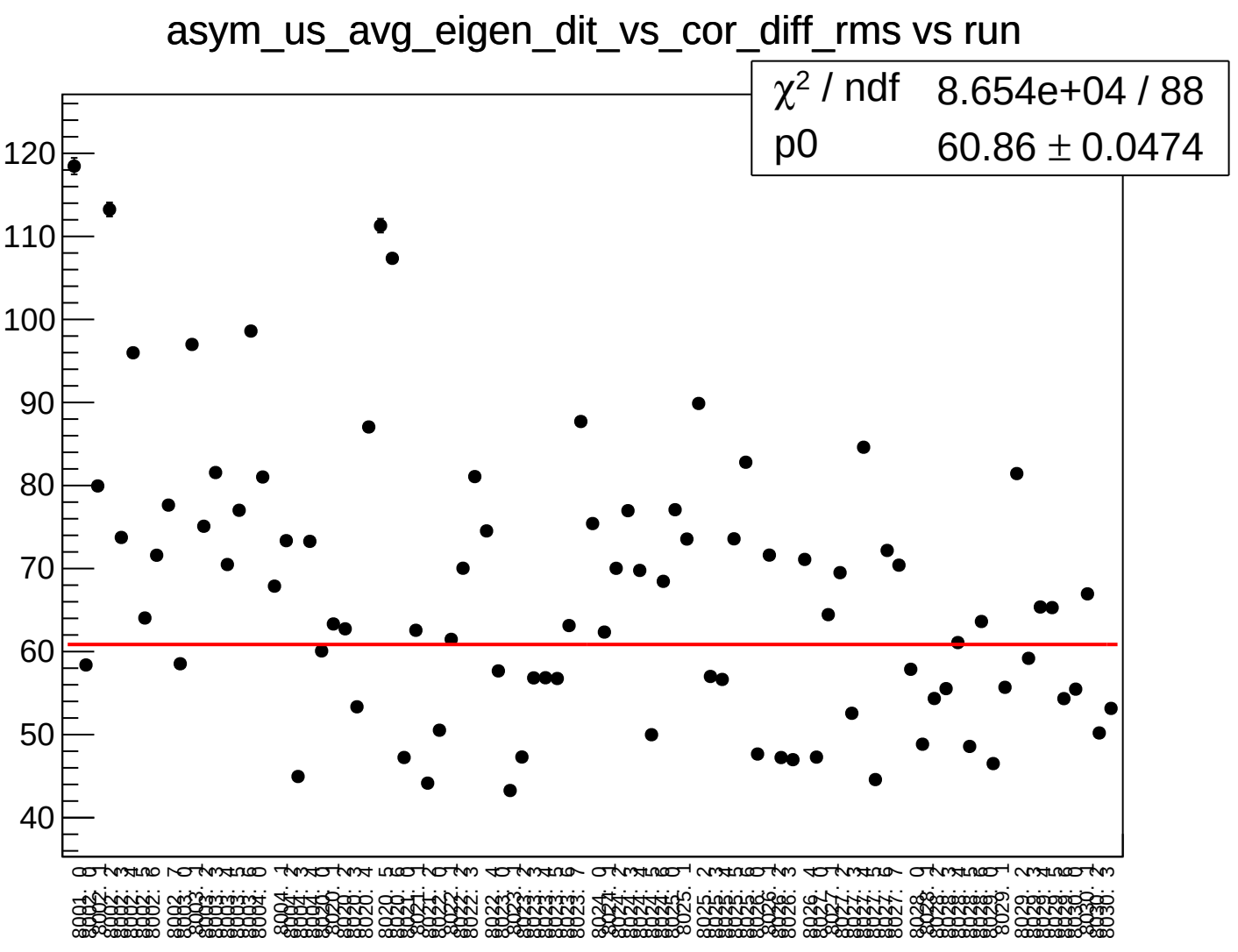

asym_us_avg_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 6.009e+04 / 88
p0 70.57 ± 0.05453
120
110
100
90
80
70
60
50
40


asym_us_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.43 / 88
p0 1.161e−06 ± 3.99e−06
pull
Entries 89
Mean 114.4
Std Dev 0

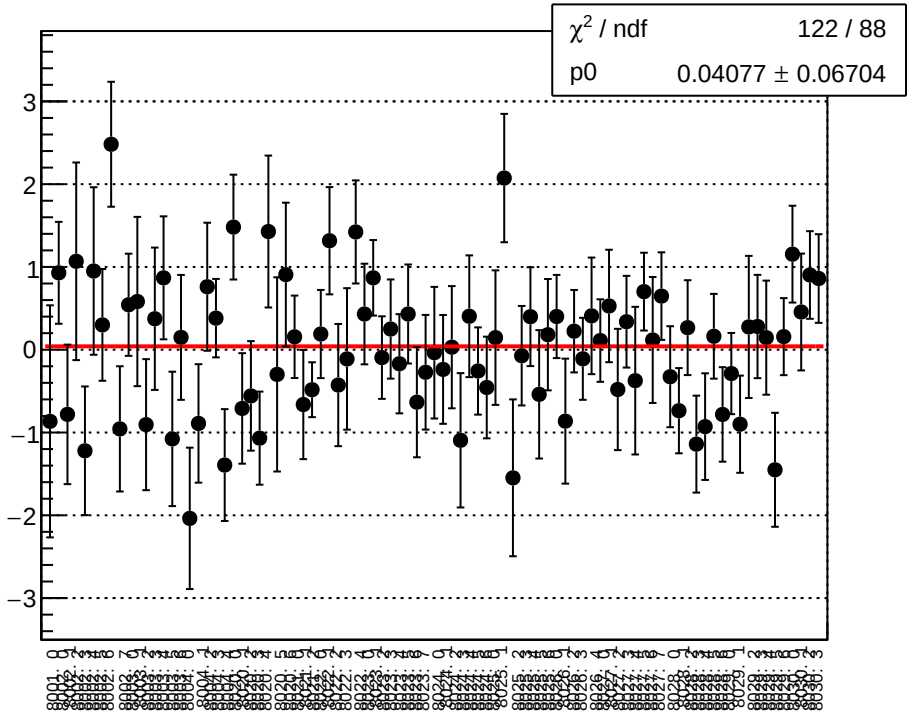

pull1D
Entries 89
Mean −0.0498
Std Dev 0.9785

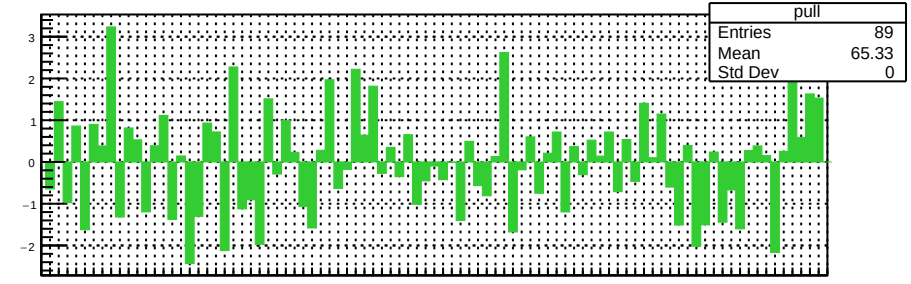

asym_us_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.201e+05 / 88
p0 0.003356 ± 2.821e−06
0.007
0.006
0.005
0.004
0.003
0.002

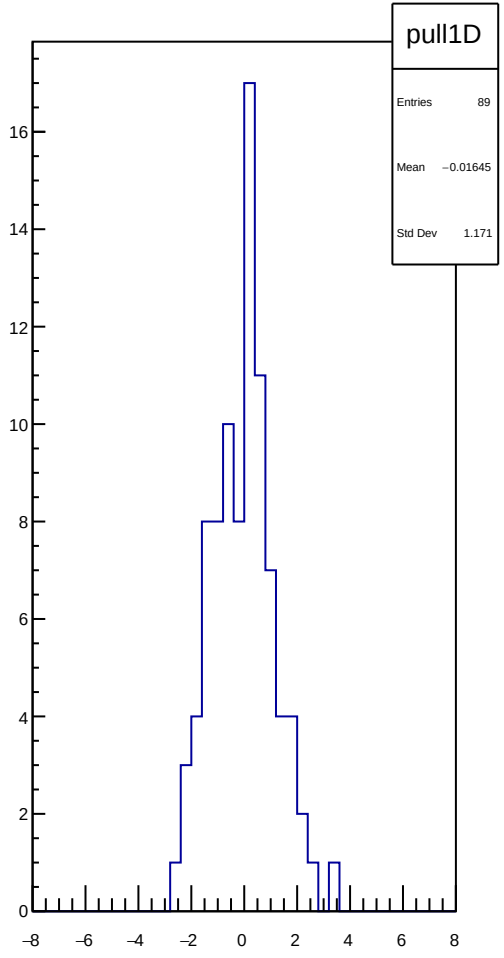

asym_us_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 122 / 88
p0 0.04077 ± 0.06704
pull
Entries 89
Mean 65.33
Std Dev 0
pull1D
Entries 89
Mean −0.01645
Std Dev 1.171

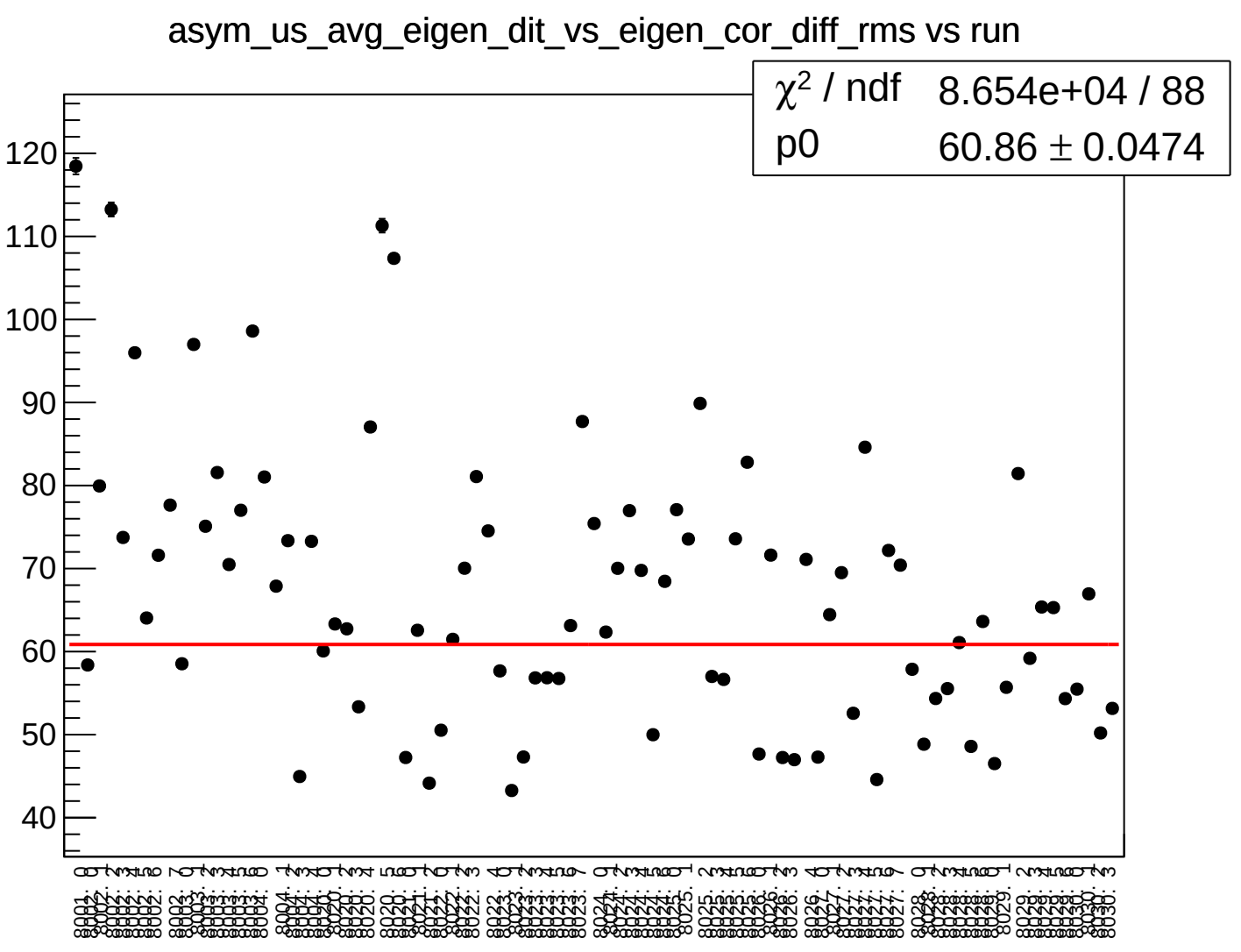

asym_us_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.654e+04 / 88
p0 60.86 ± 0.0474
120
110
100
90
80
70
60
50
40

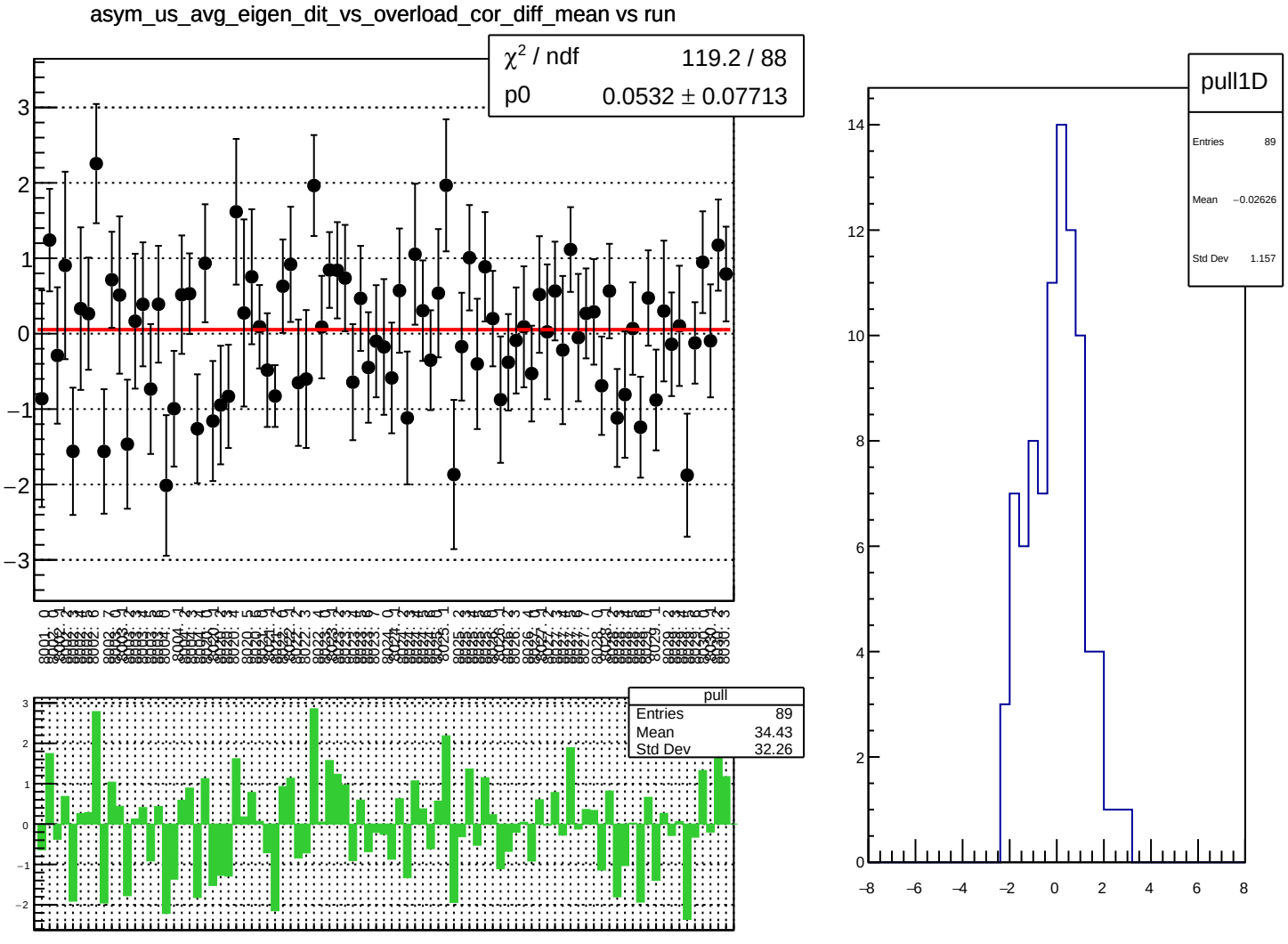
asym_us_avg_eigen_dit_vs_eigen_cor_diff_mean vs run

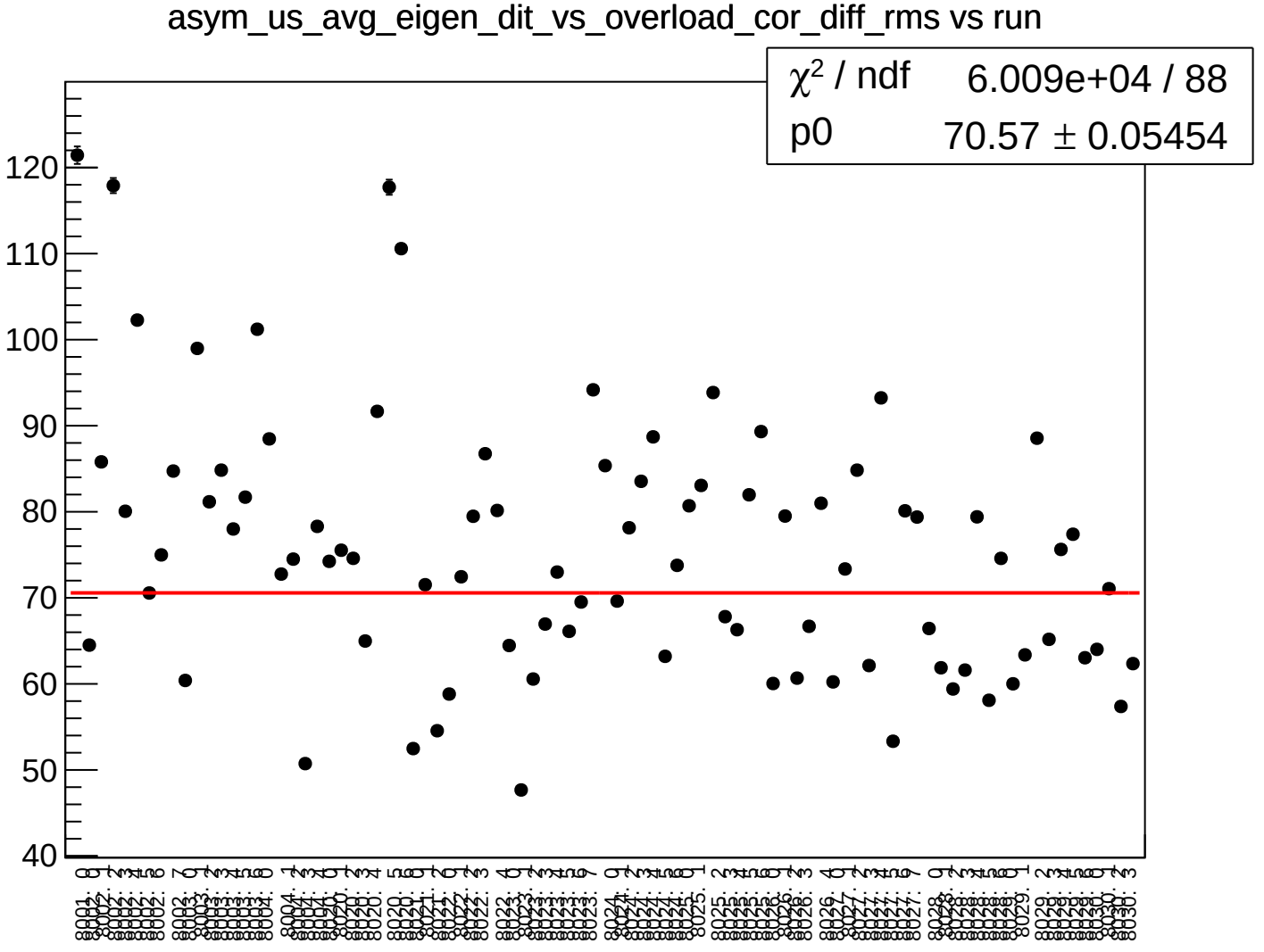


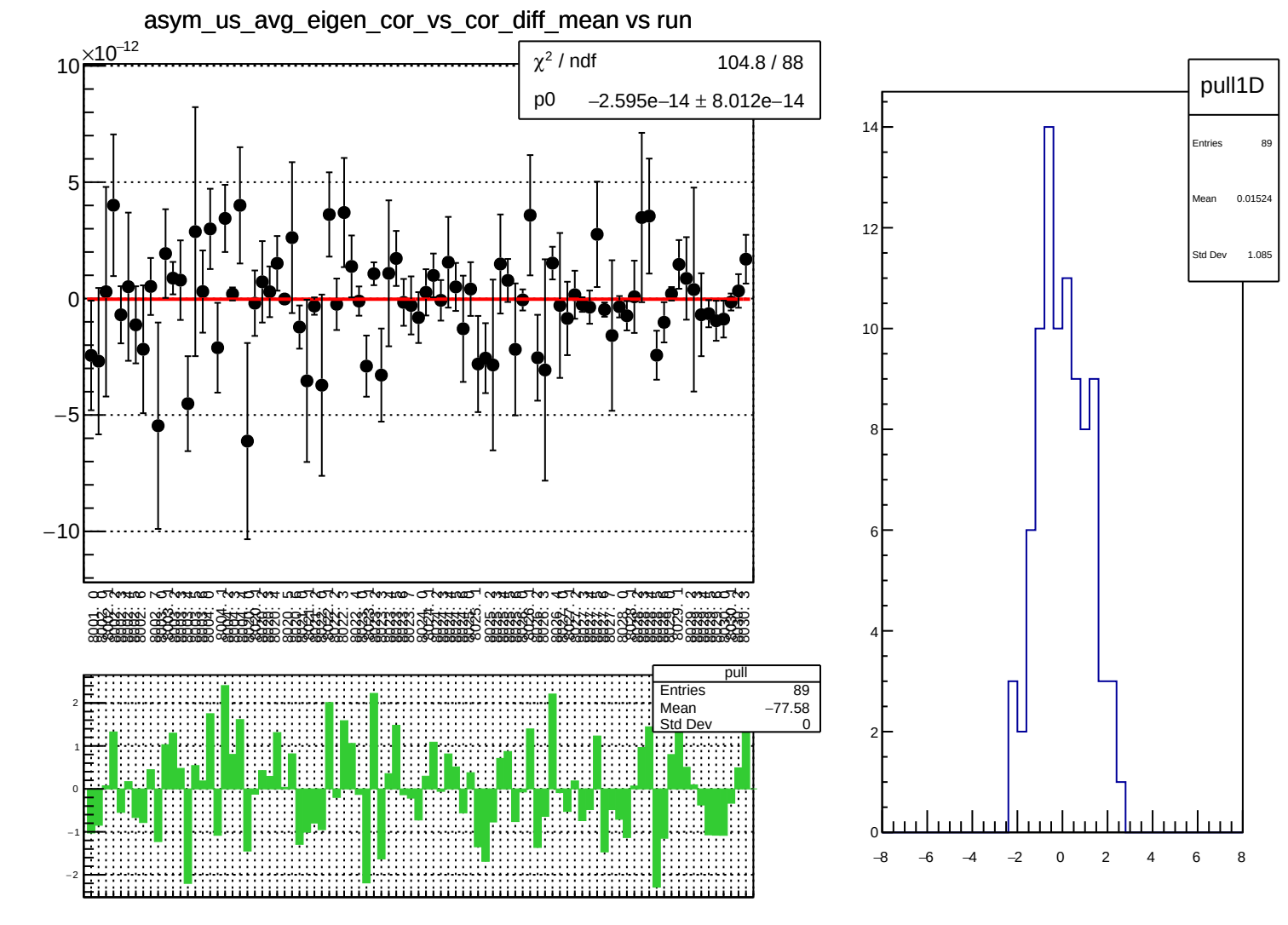


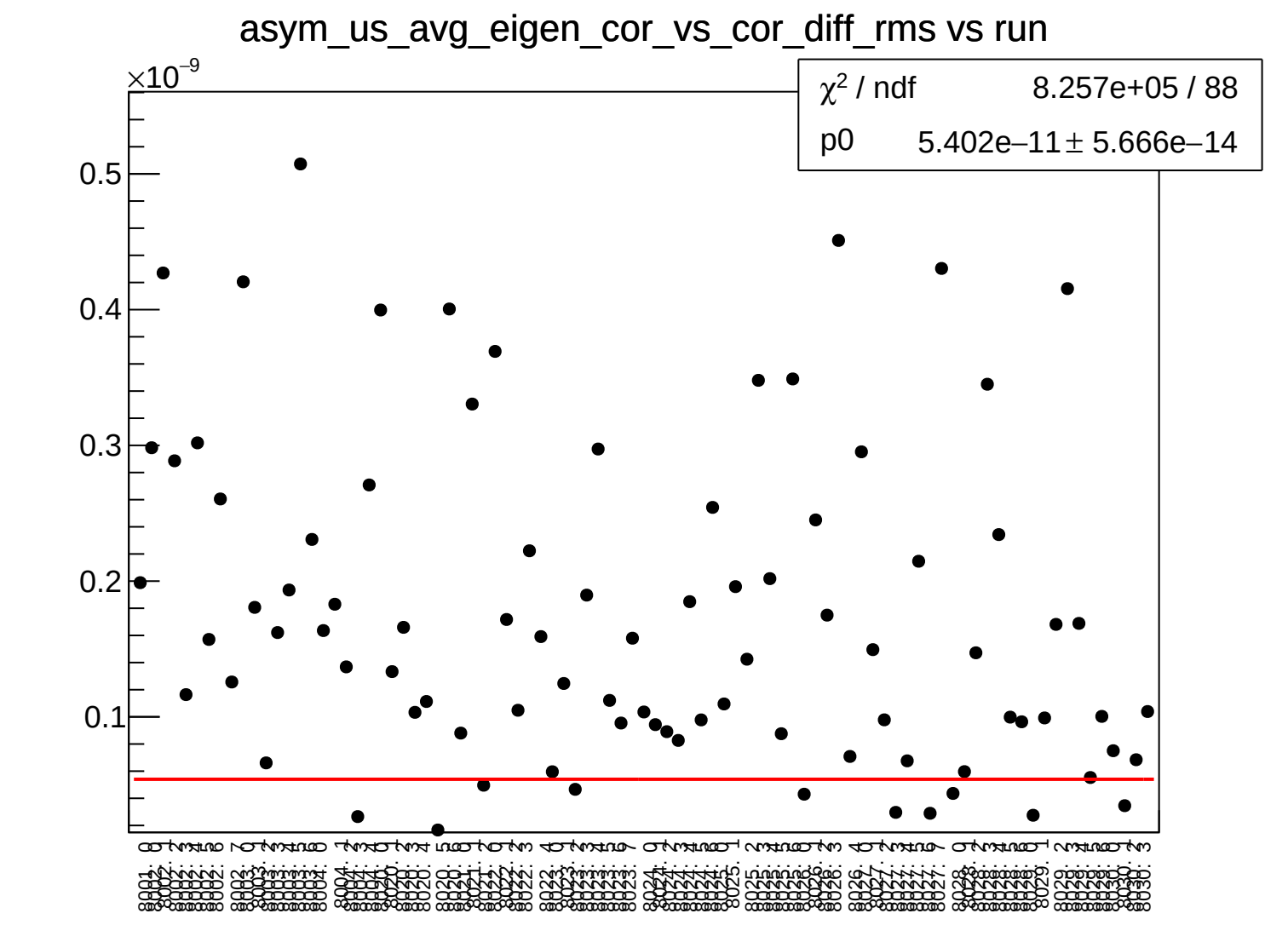


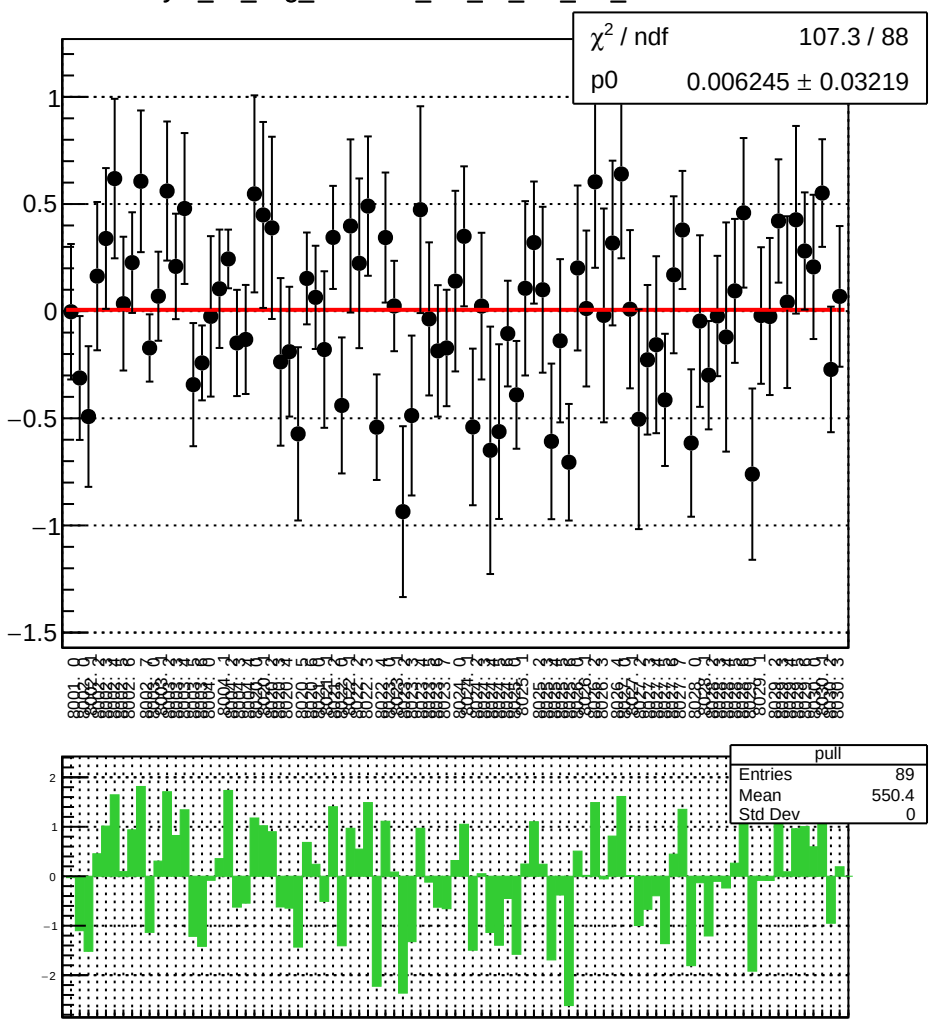

asym_us_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.654e+04 / 88
p0 60.86 ± 0.0474
120
110
100
90
80
70
60
50
40

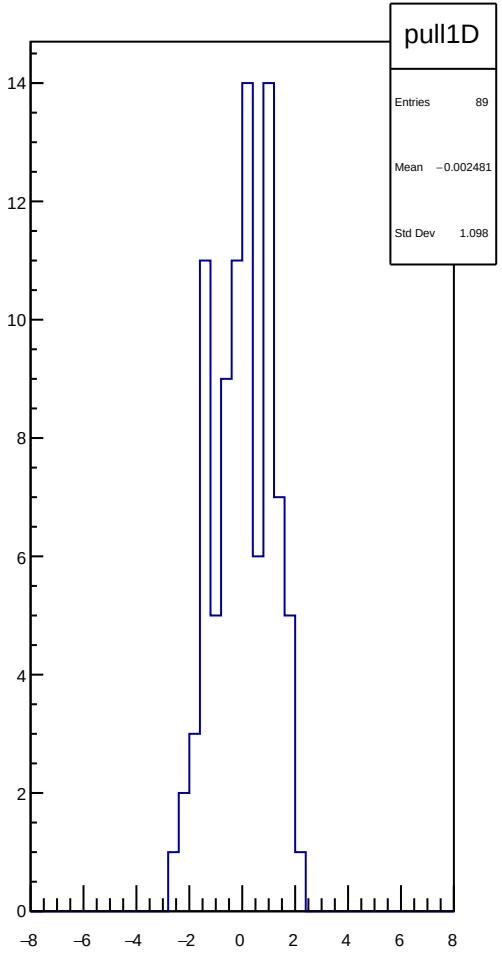

asym_us_avg_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 119.2 / 88
p0 0.0532 ± 0.07713
pull
Entries 89
Mean 34.43
Std Dev 32.26
pull1D
Entries 89
Mean −0.02626
Std Dev 1.157

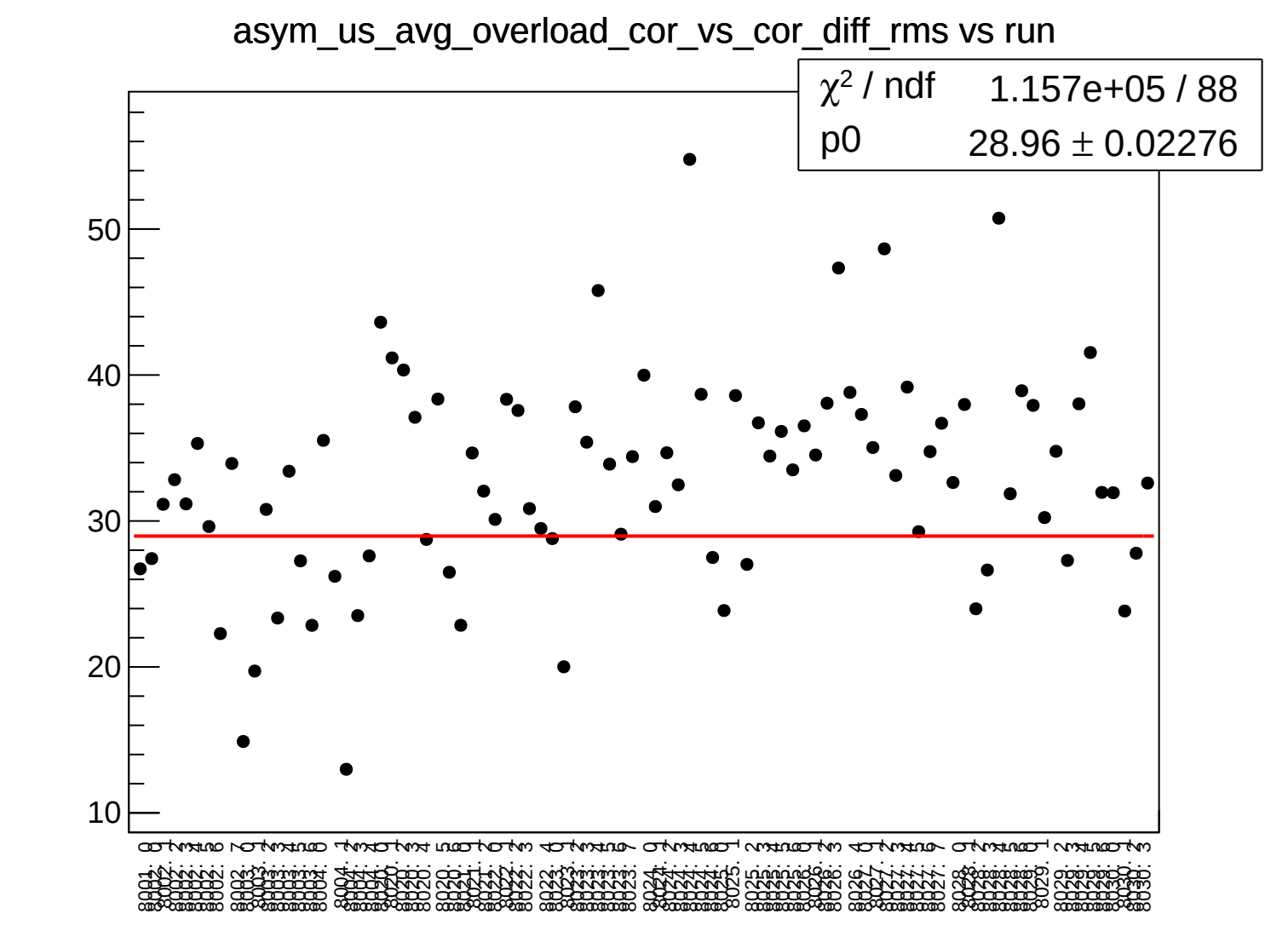

asym_us_avg_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 6.009e+04 / 88
p0 70.57 ± 0.05454
120
110
100
90
80
70
60
50
40

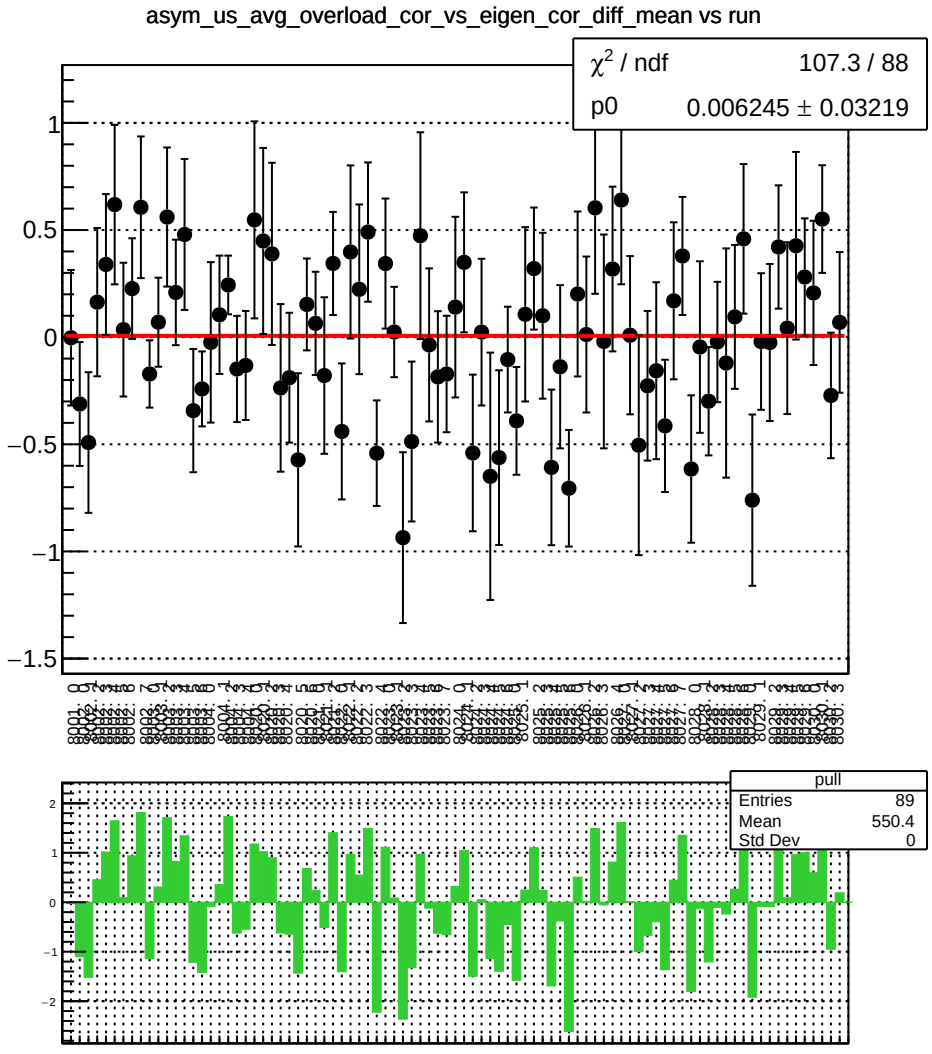

asym_us_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 104.8 / 88
p0 −2.595e−14 ± 8.012e−14
pull
Entries 89
Mean −77.58
Std Dev 0
pull1D
Entries 89
Mean 0.01524
Std Dev 1.085

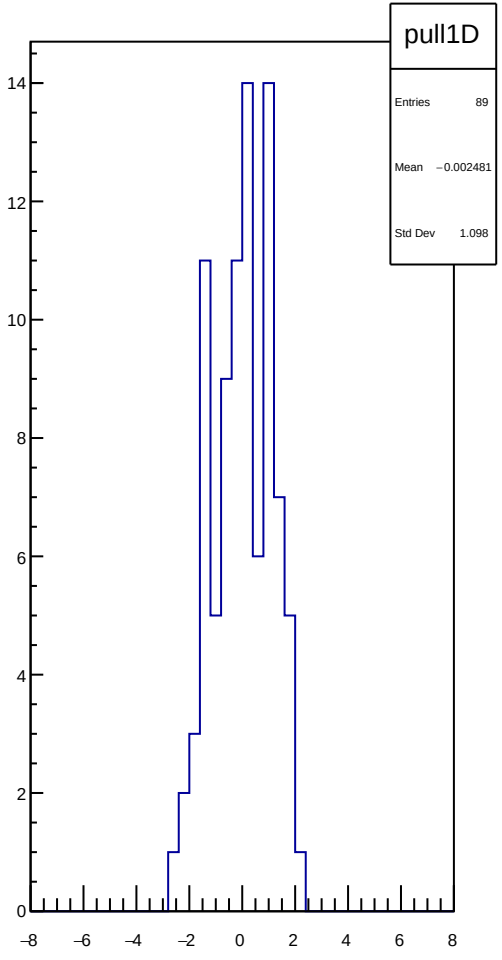

asym_us_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.257e+05 / 88
p0 5.402e−11 ± 5.666e−14
0.5
0.4
0.3
0.2
0.1

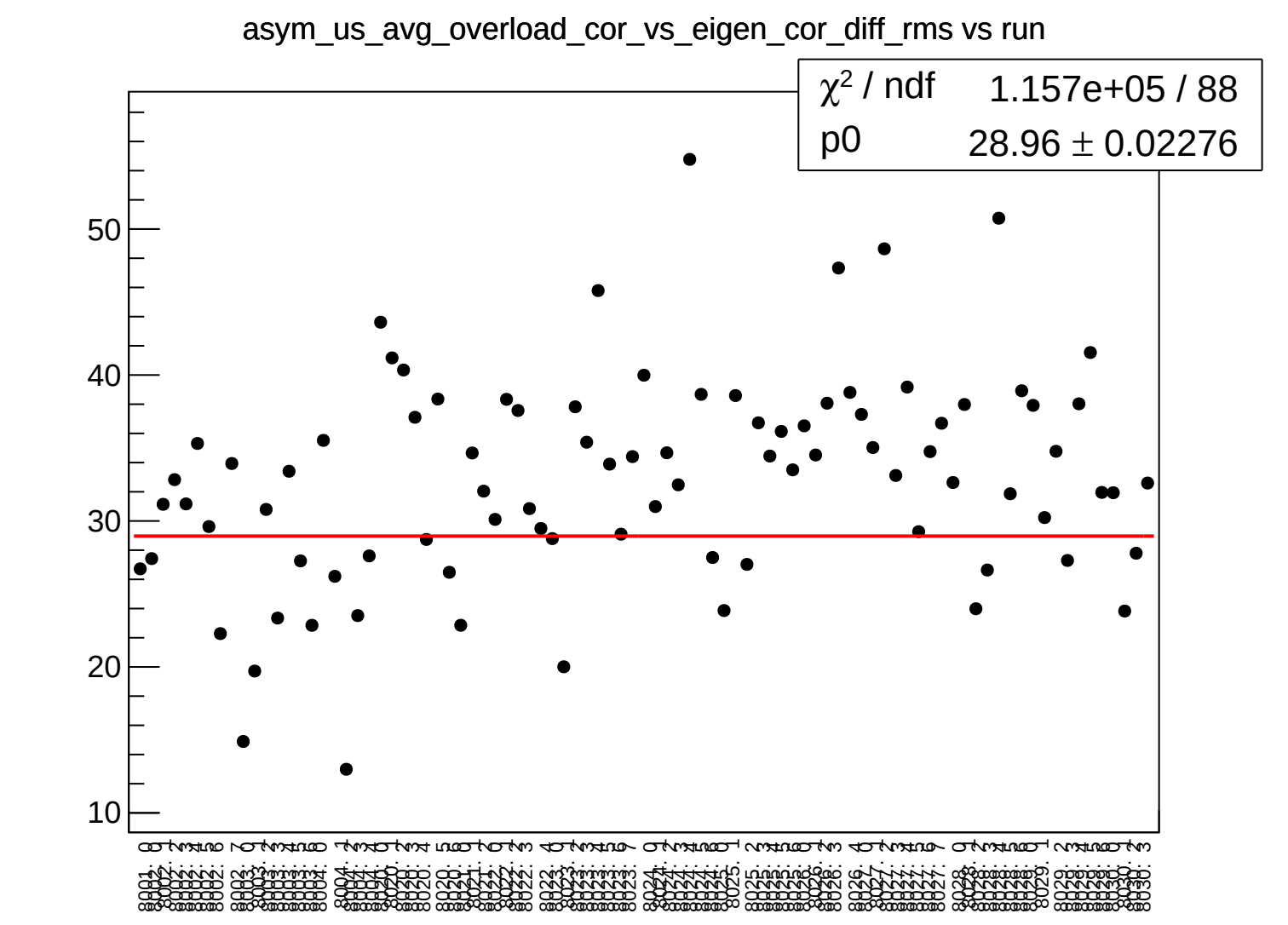

asym_us_avg_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 107.3 / 88
p0 0.006245 ± 0.03219
pull
Entries 89
Mean 550.4
Std Dev 0

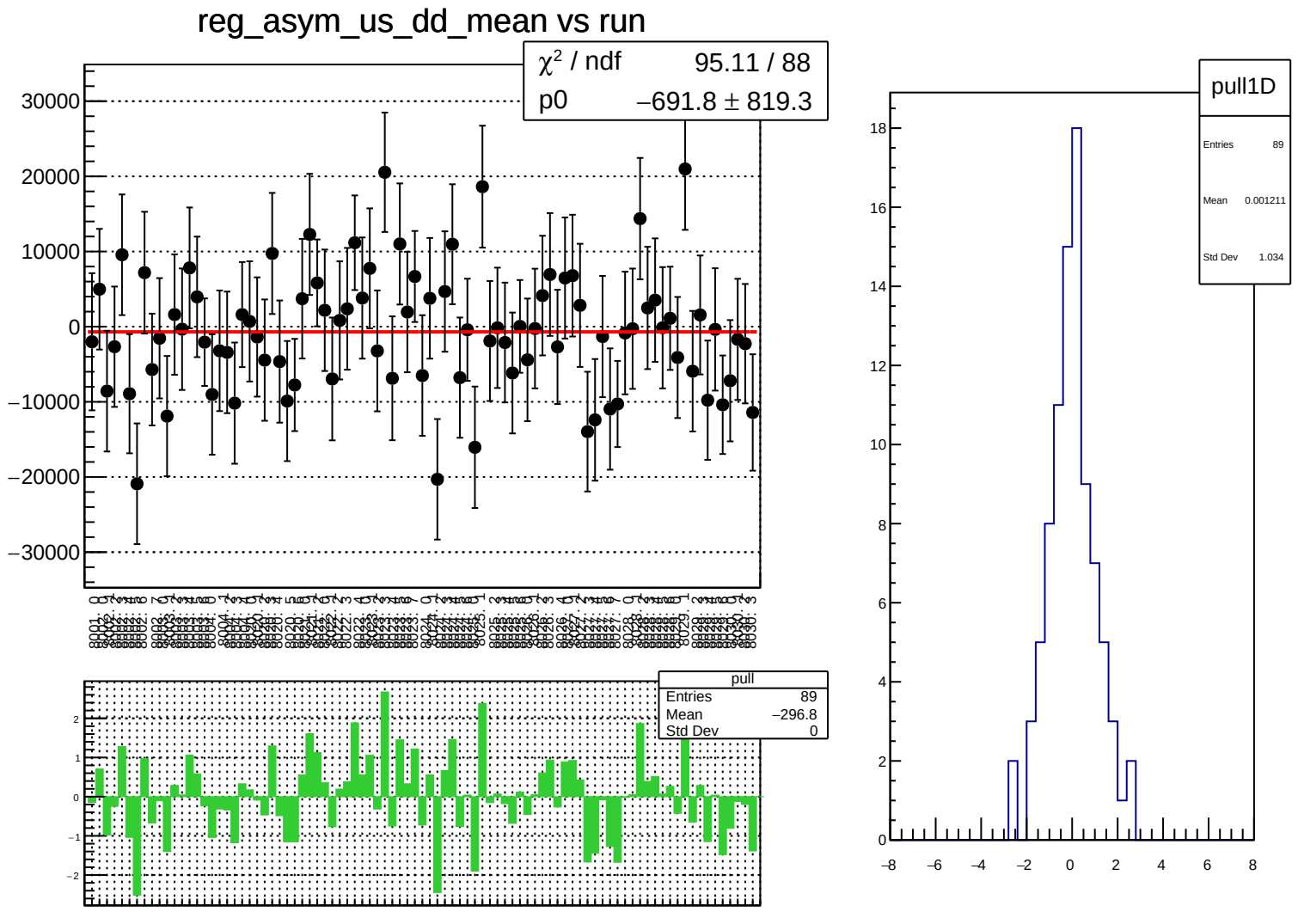

pull1D
Entries 89
Mean −0.002481
Std Dev 1.098

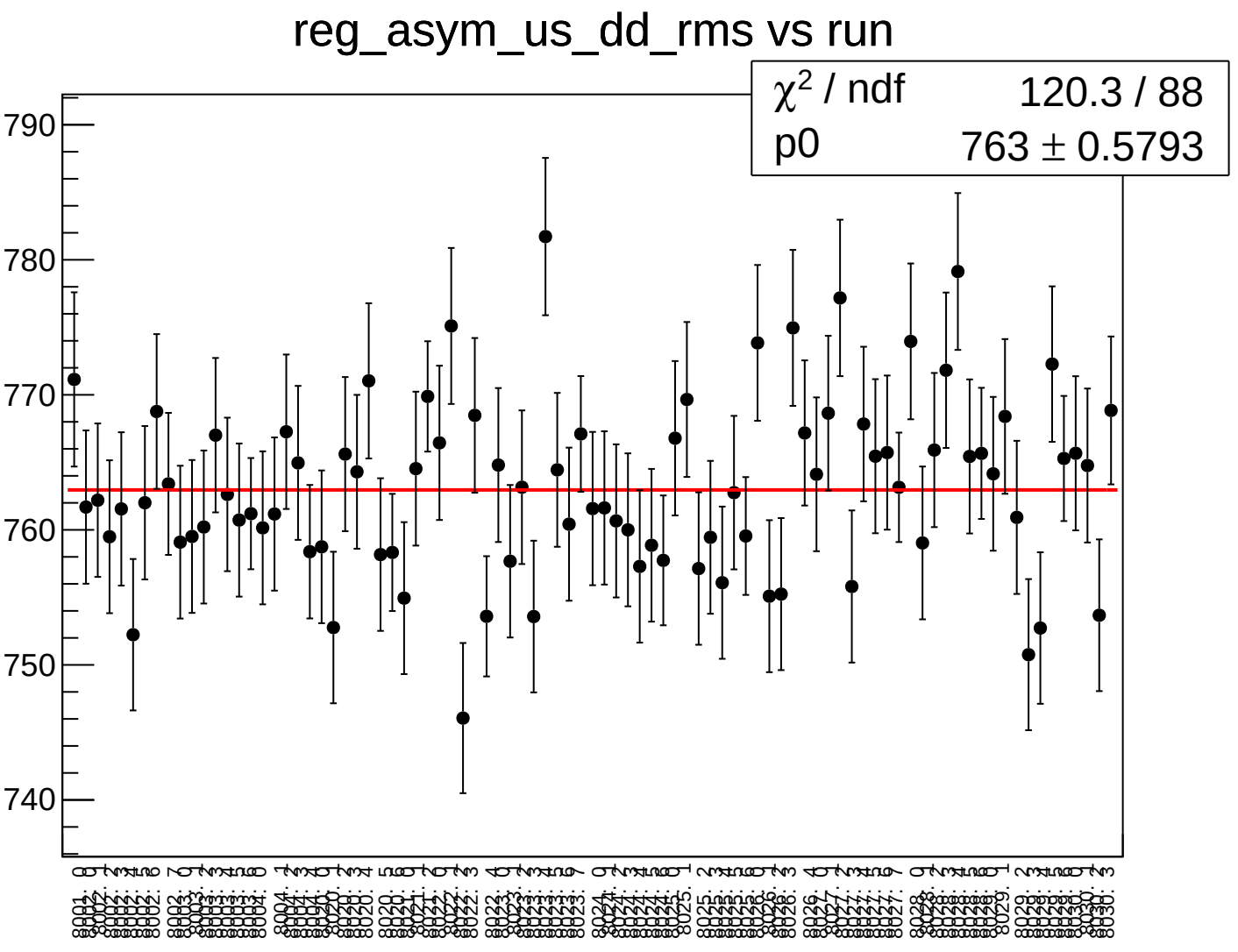

asym_us_avg_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.157e+05 / 88
p0 28.96 ± 0.02276
50
40
30
20
10

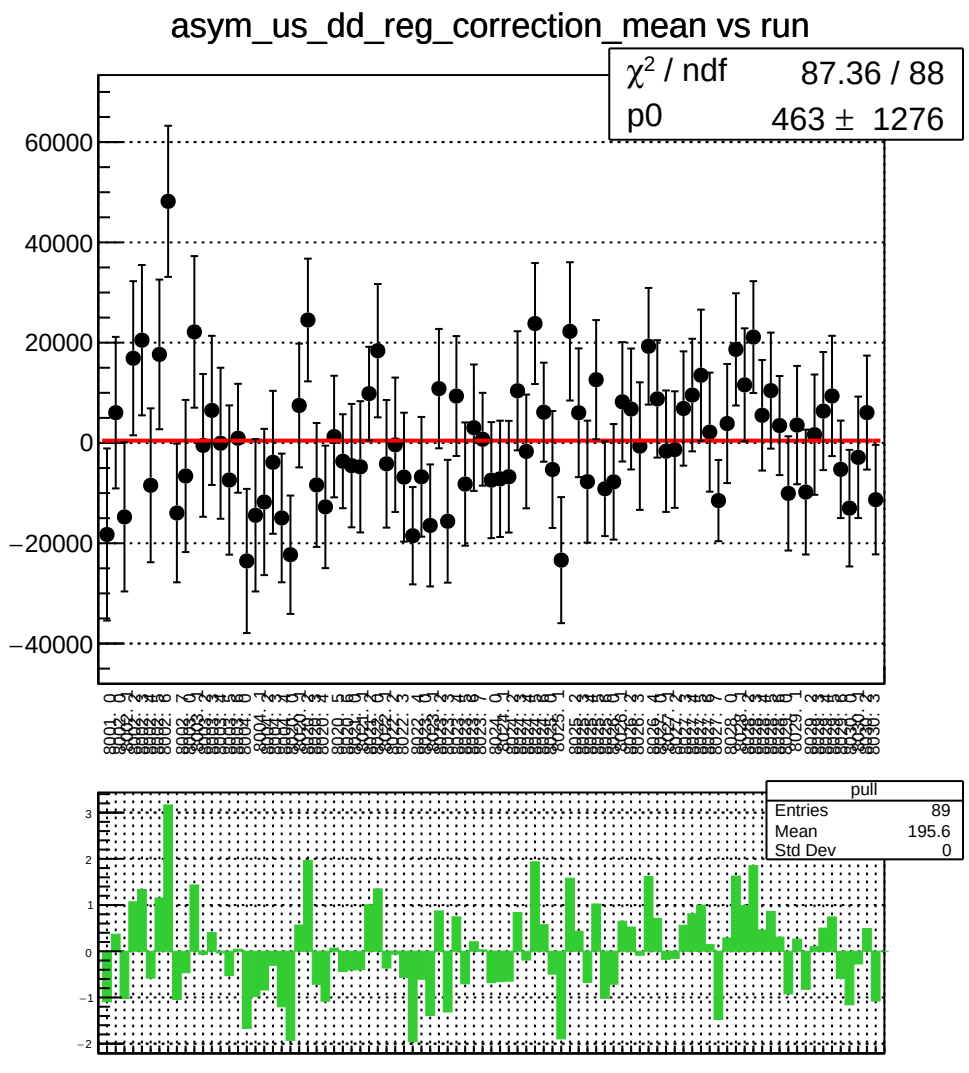

asym_us_avg_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.3 / 88
p0 0.006245 ± 0.03219
pull
Entries 89
Mean 550.4
Std Dev 0

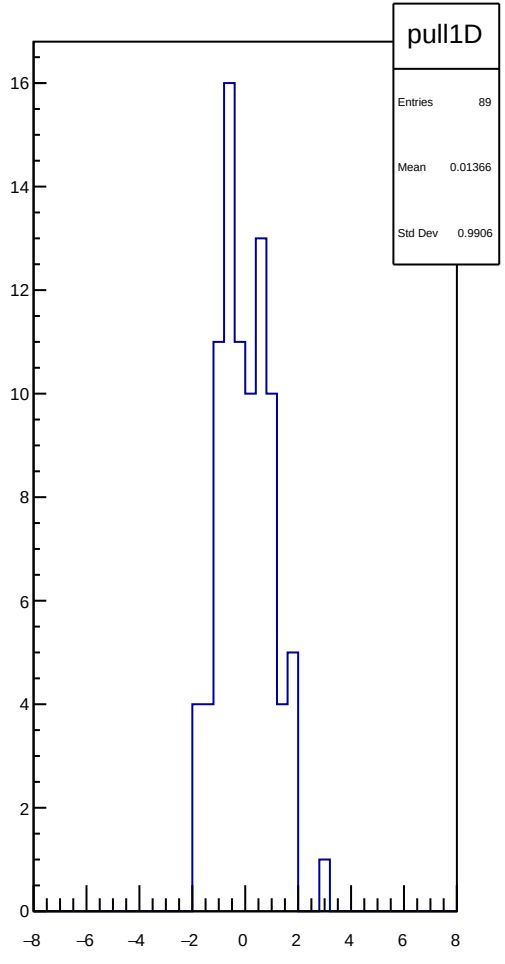

pull1D
Entries 89
Mean −0.002481
Std Dev 1.098

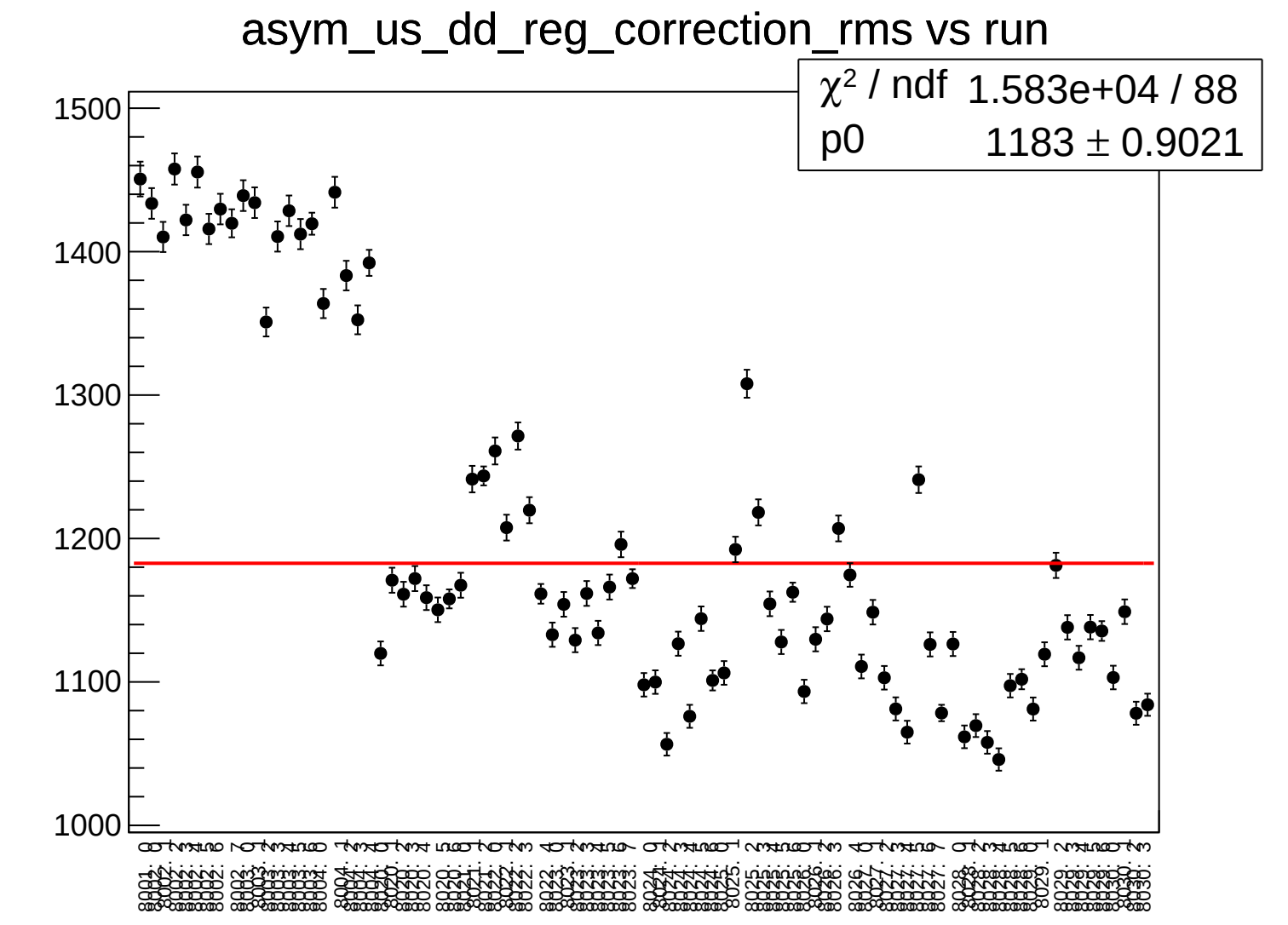

asym_us_avg_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.157e+05 / 88
p0 28.96 ± 0.02276
50
40
30
20
10

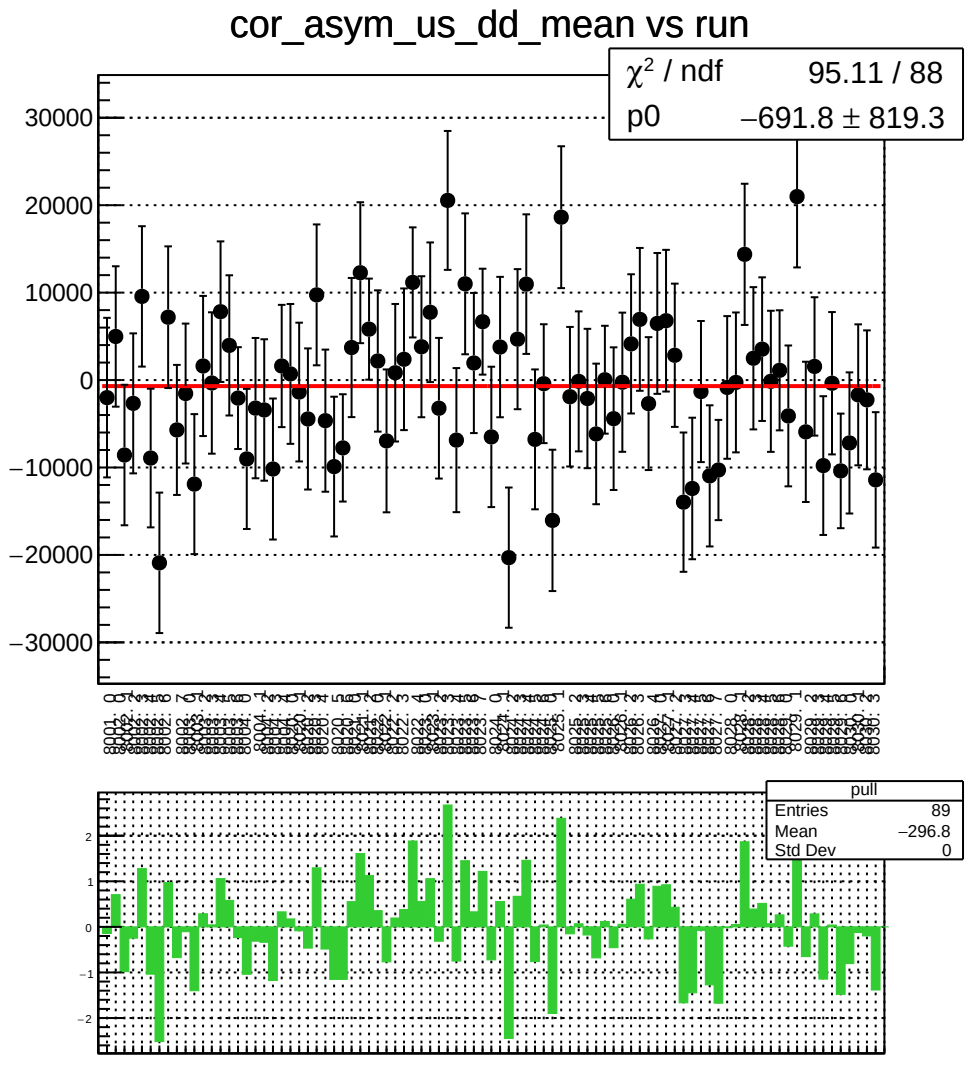

reg_asym_us_dd_mean vs run
χ² / ndf 95.11 / 88
p0 −691.8 ± 819.3
pull
Entries 89
Mean −296.8
Std Dev 0
pull1D
Entries 89
Mean 0.001211
Std Dev 1.034

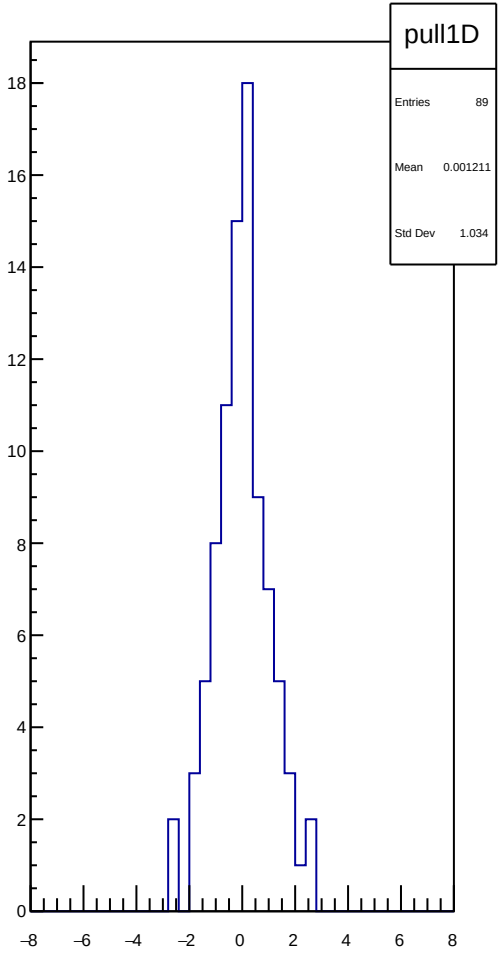

reg_asym_us_dd_rms vs run
χ^2 / ndf 120.3 / 88
p0 763 ± 0.5793
790
780
770
760
750
740

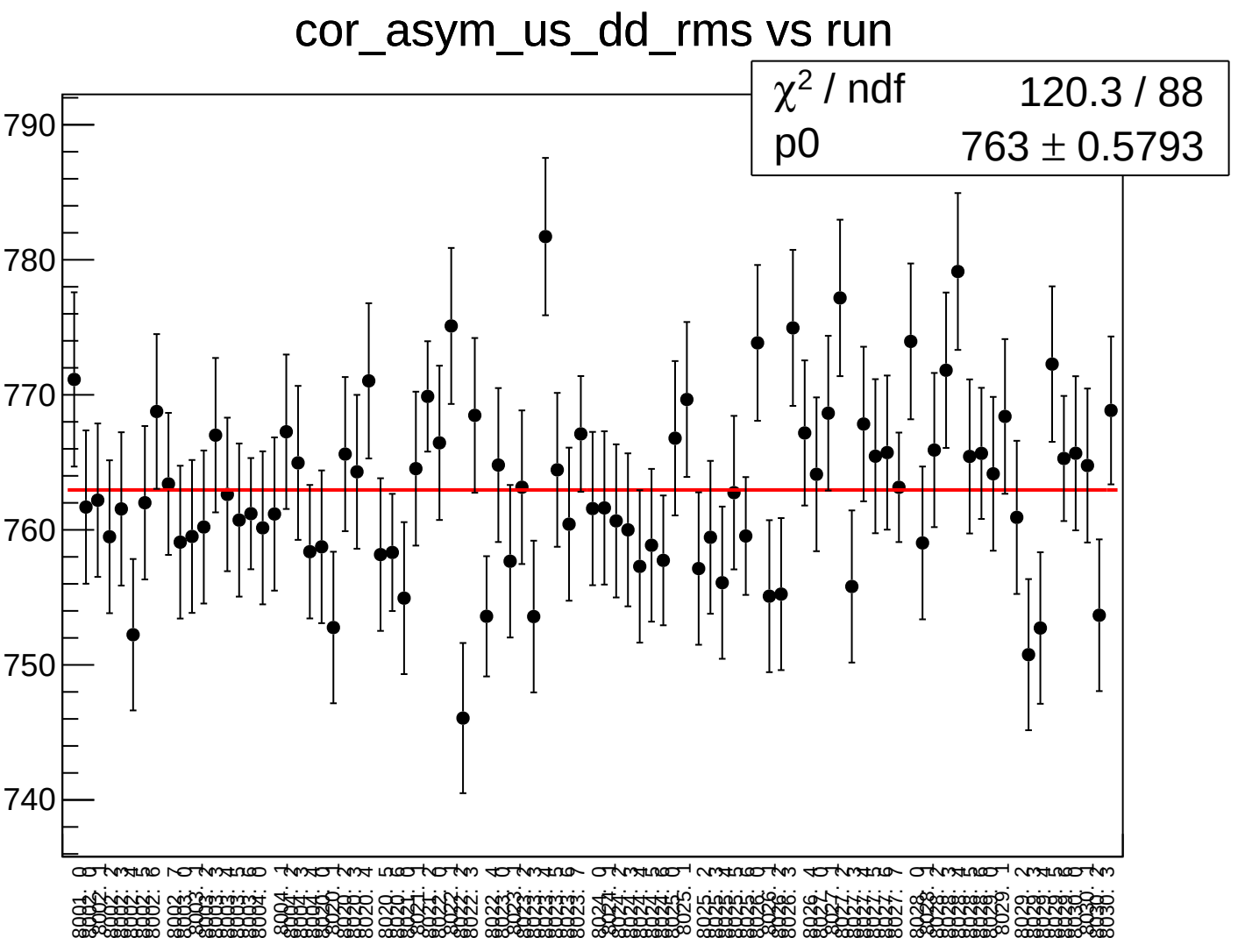

asym_us_dd_reg_correction_mean vs run
χ² / ndf 87.36 / 88
p0 463 ± 1276
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 195.6
Std Dev 0
3
2
1
0
−1
−2

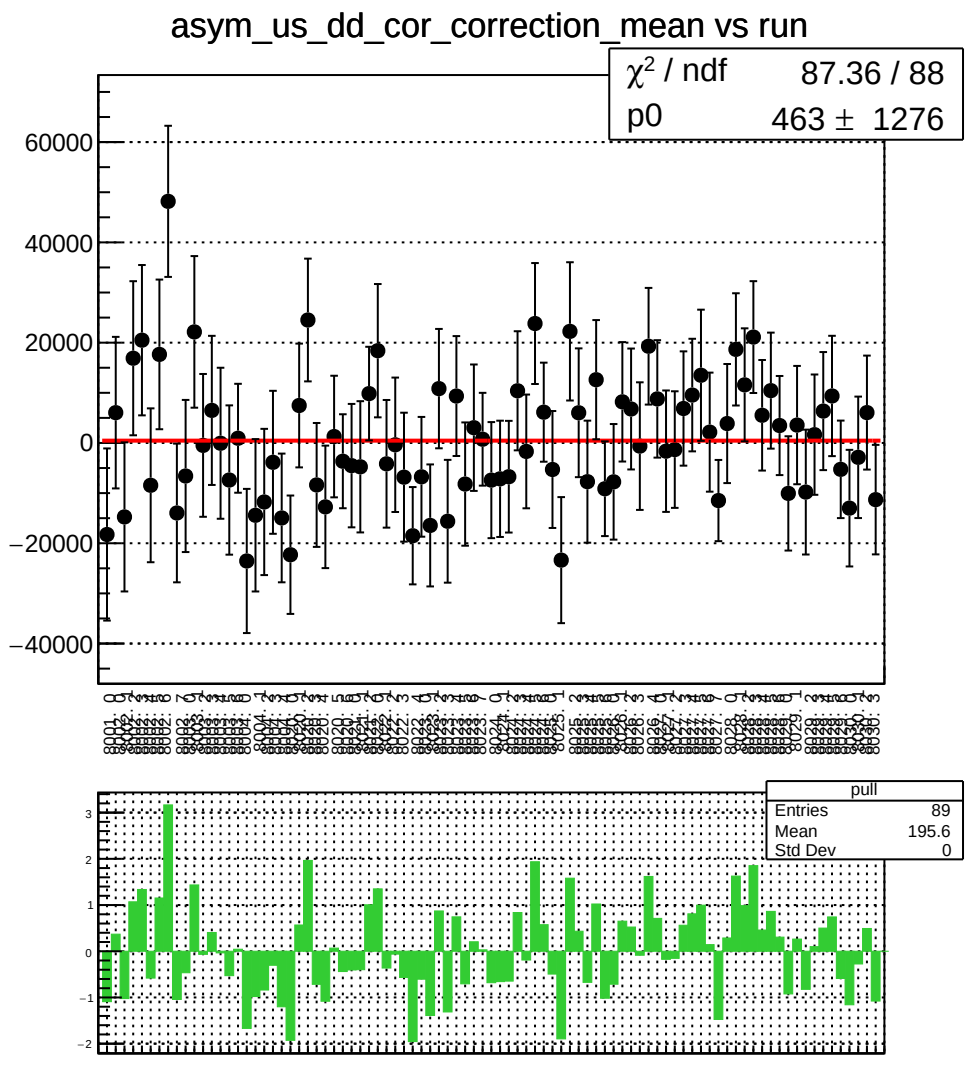

pull1D
Entries 89
Mean 0.01366
Std Dev 0.9906
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

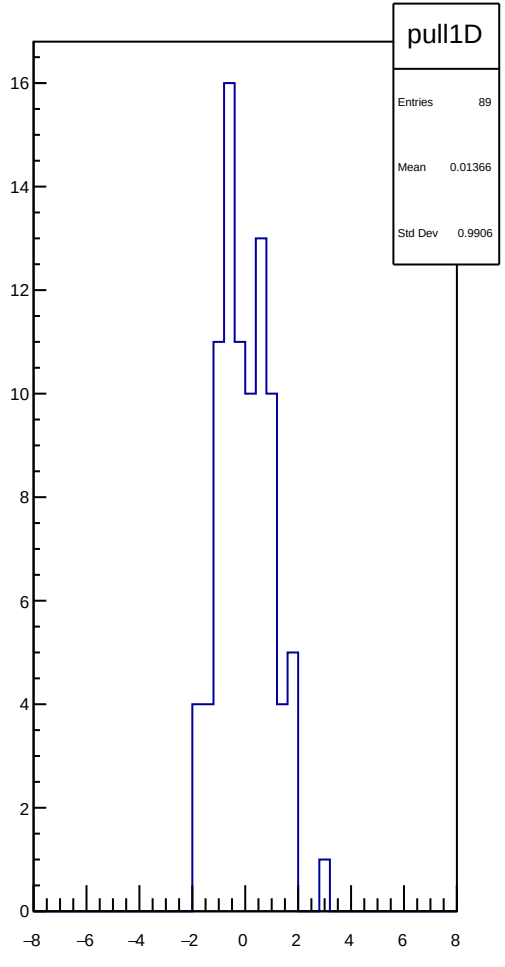

asym_us_dd_reg_correction_rms vs run
χ² / ndf 1.583e+04 / 88
p0 1183 ± 0.9021
1500
1400
1300
1200
1100
1000

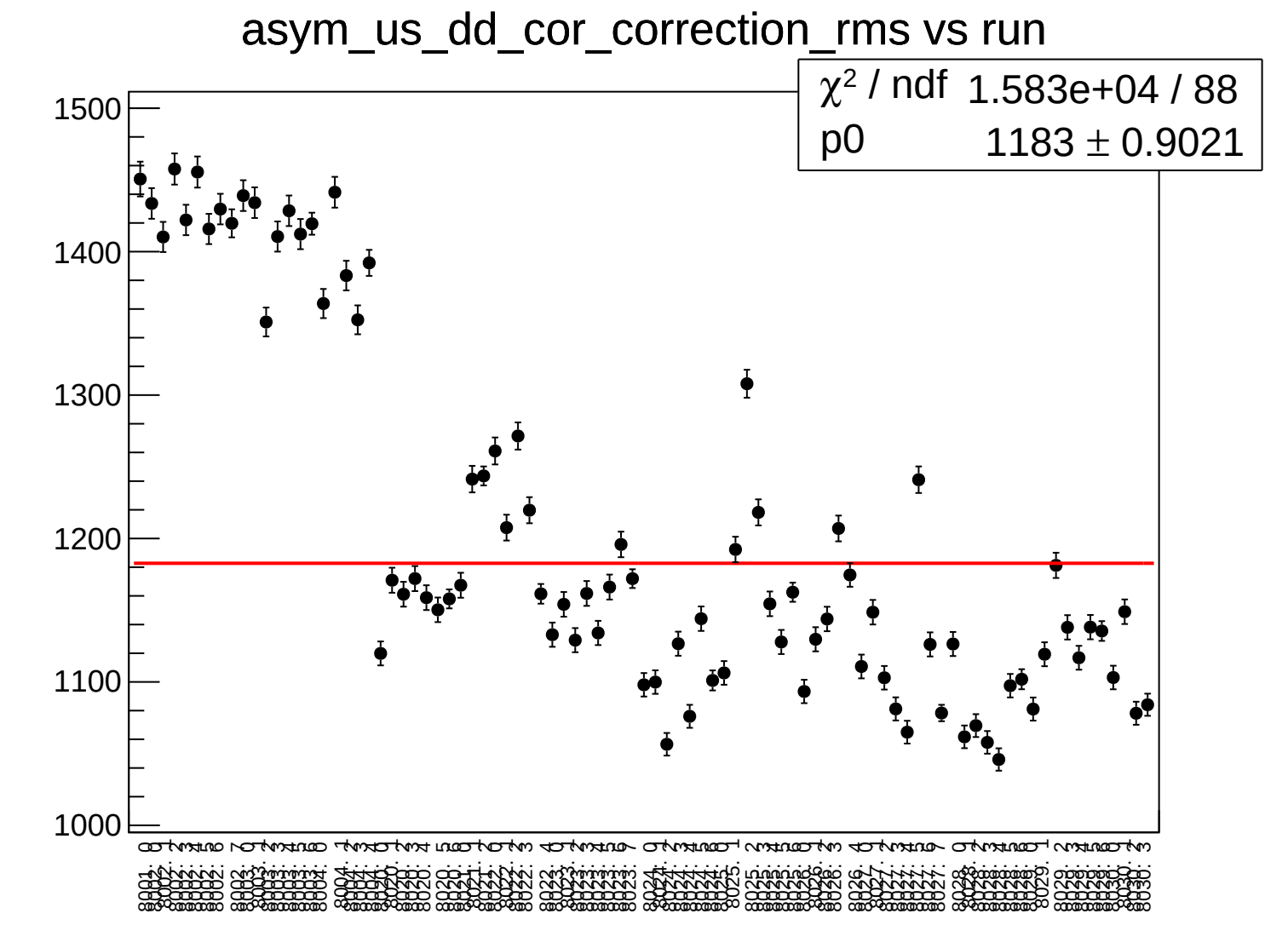

cor_asym_us_dd_mean vs run
χ² / ndf 95.11 / 88
p0 −691.8 ± 819.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −296.8
Std Dev 0
2
1
0
−1
−2

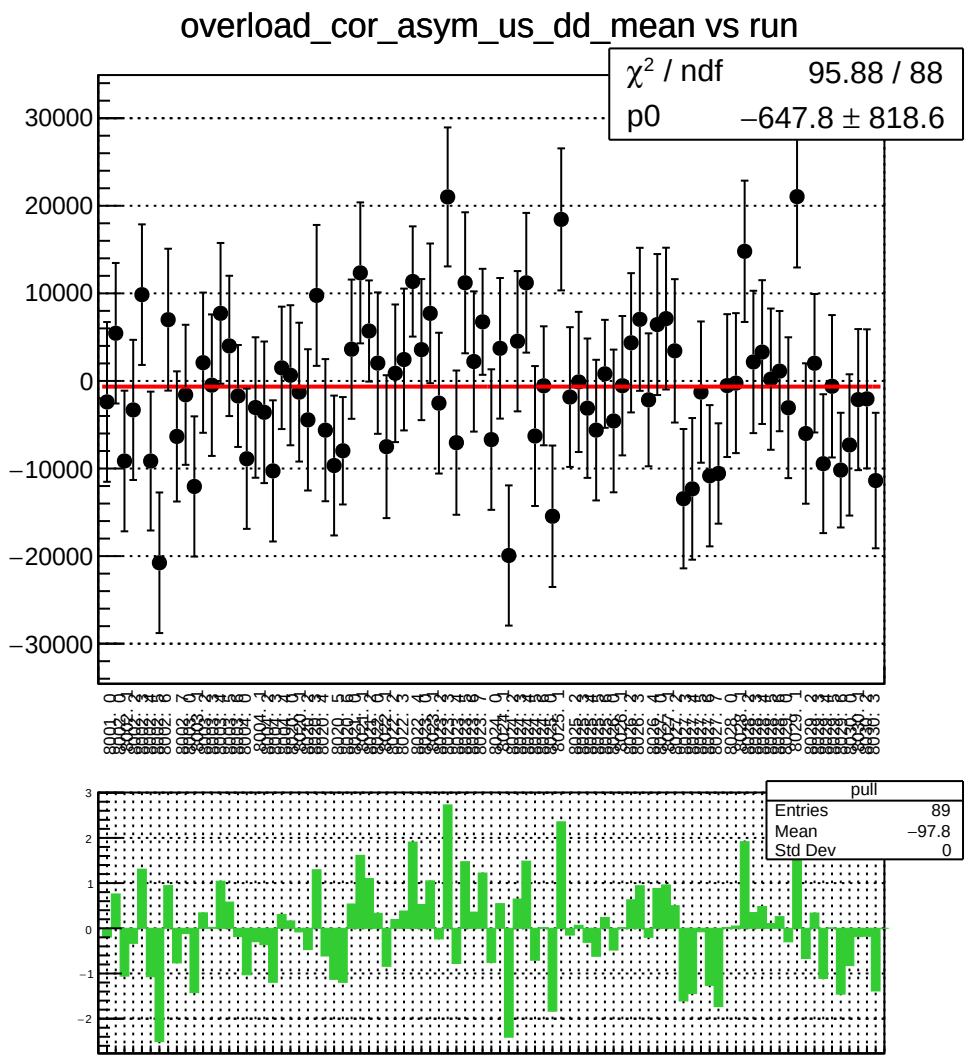

pull1D
Entries 89
Mean 0.001211
Std Dev 1.034
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

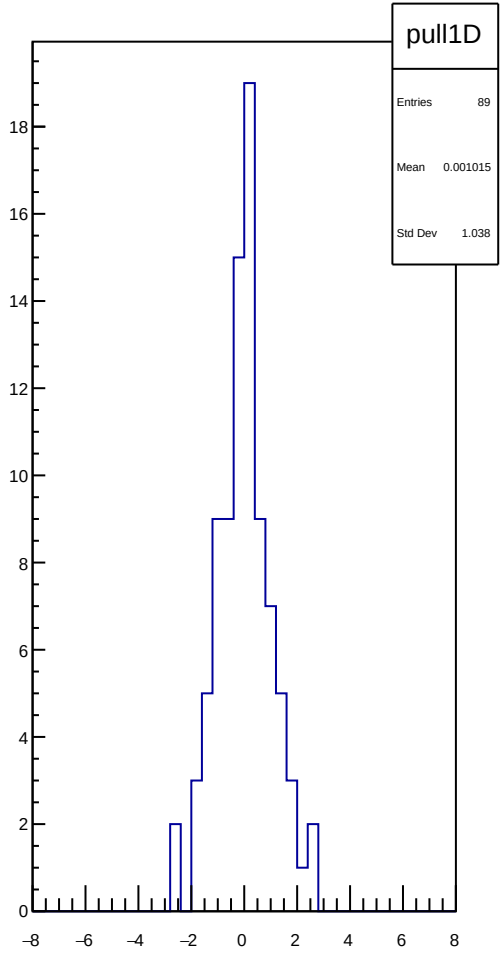

cor_asym_us_dd_rms vs run
χ^2 / ndf 120.3 / 88
p0 763 ± 0.5793
790
780
770
760
750
740

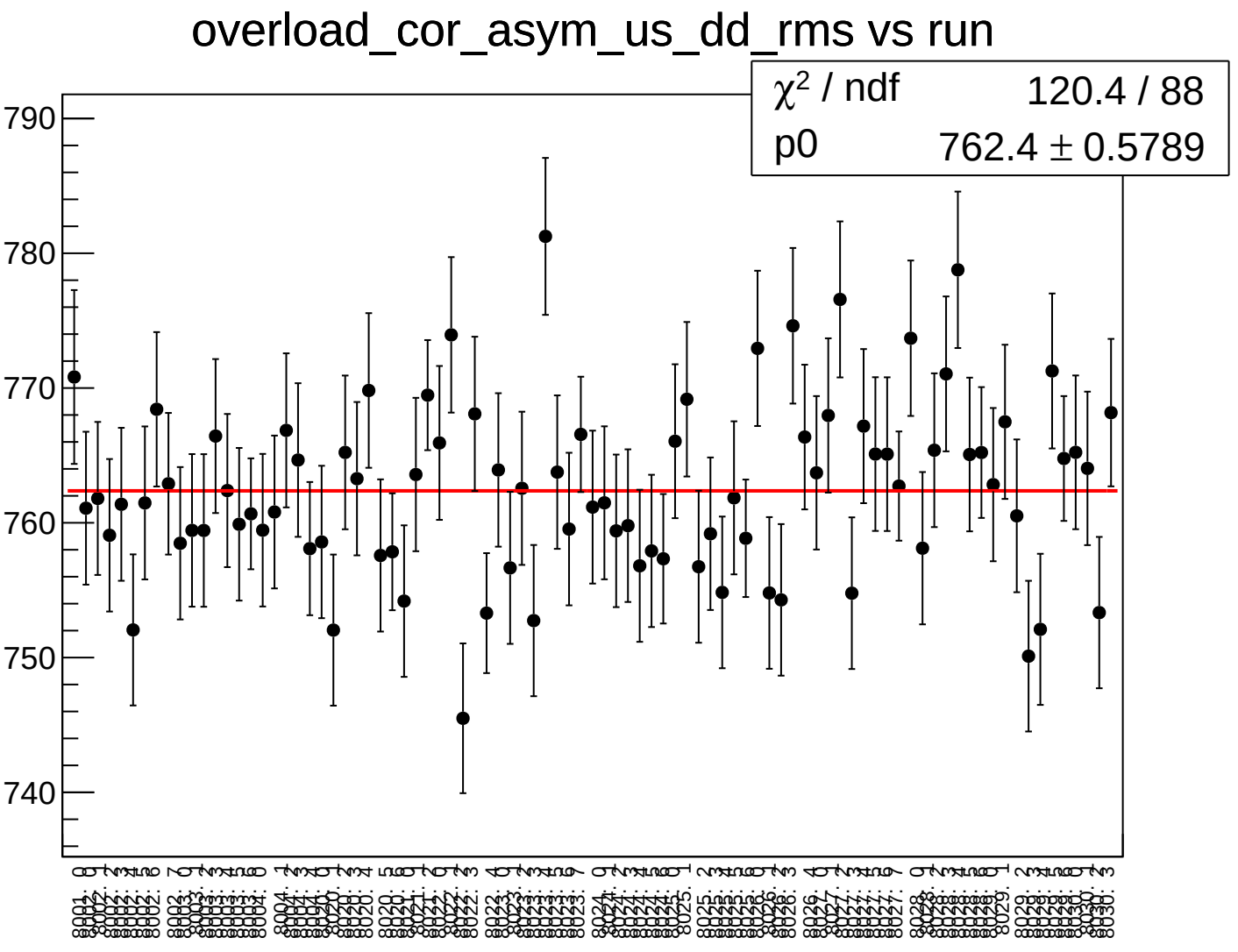

asym_us_dd_cor_correction_mean vs run
χ² / ndf 87.36 / 88
p0 463 ± 1276
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 195.6
Std Dev 0
3
2
1
0
−1
−2

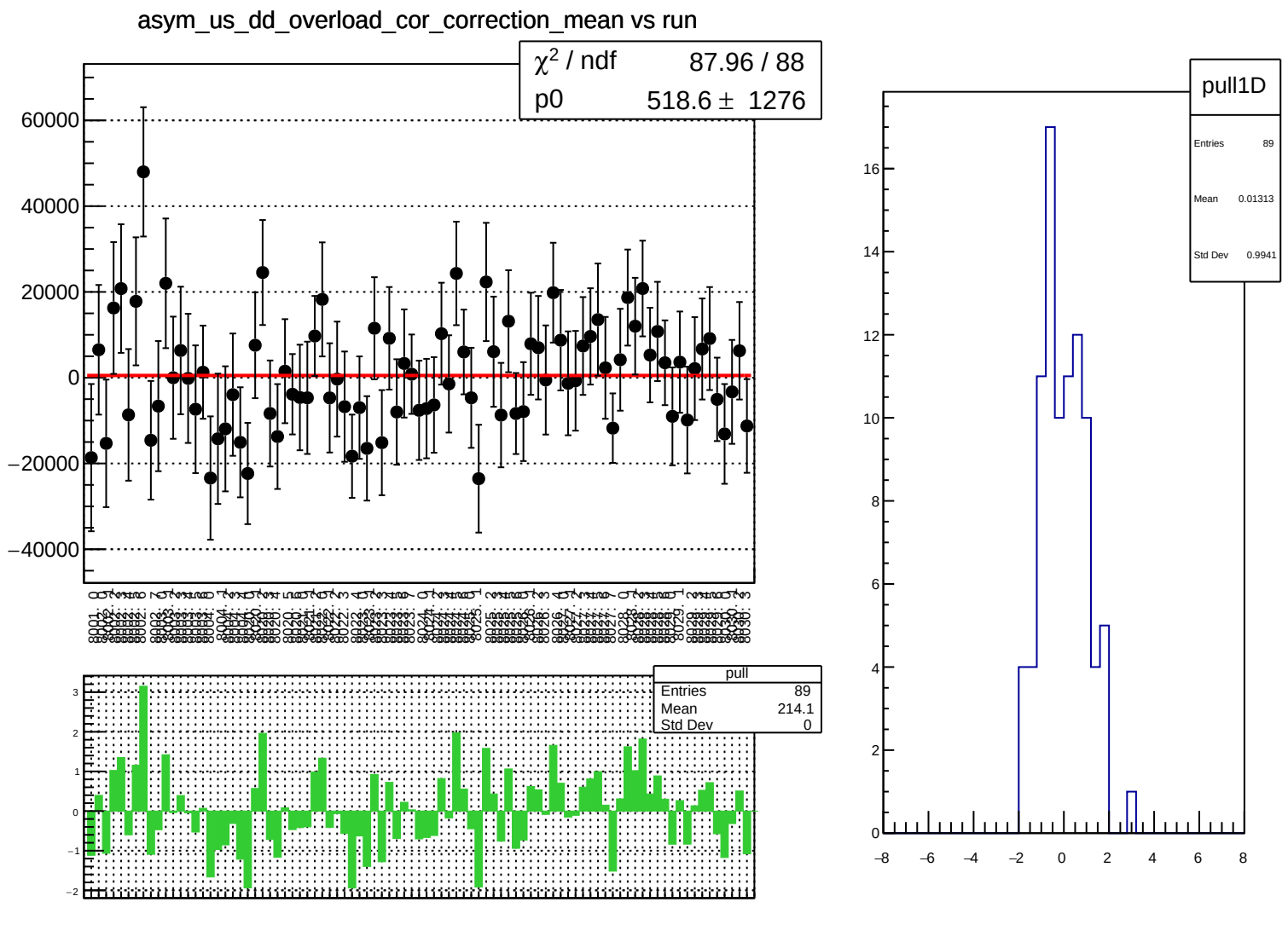

pull1D
Entries 89
Mean 0.01366
Std Dev 0.9906
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

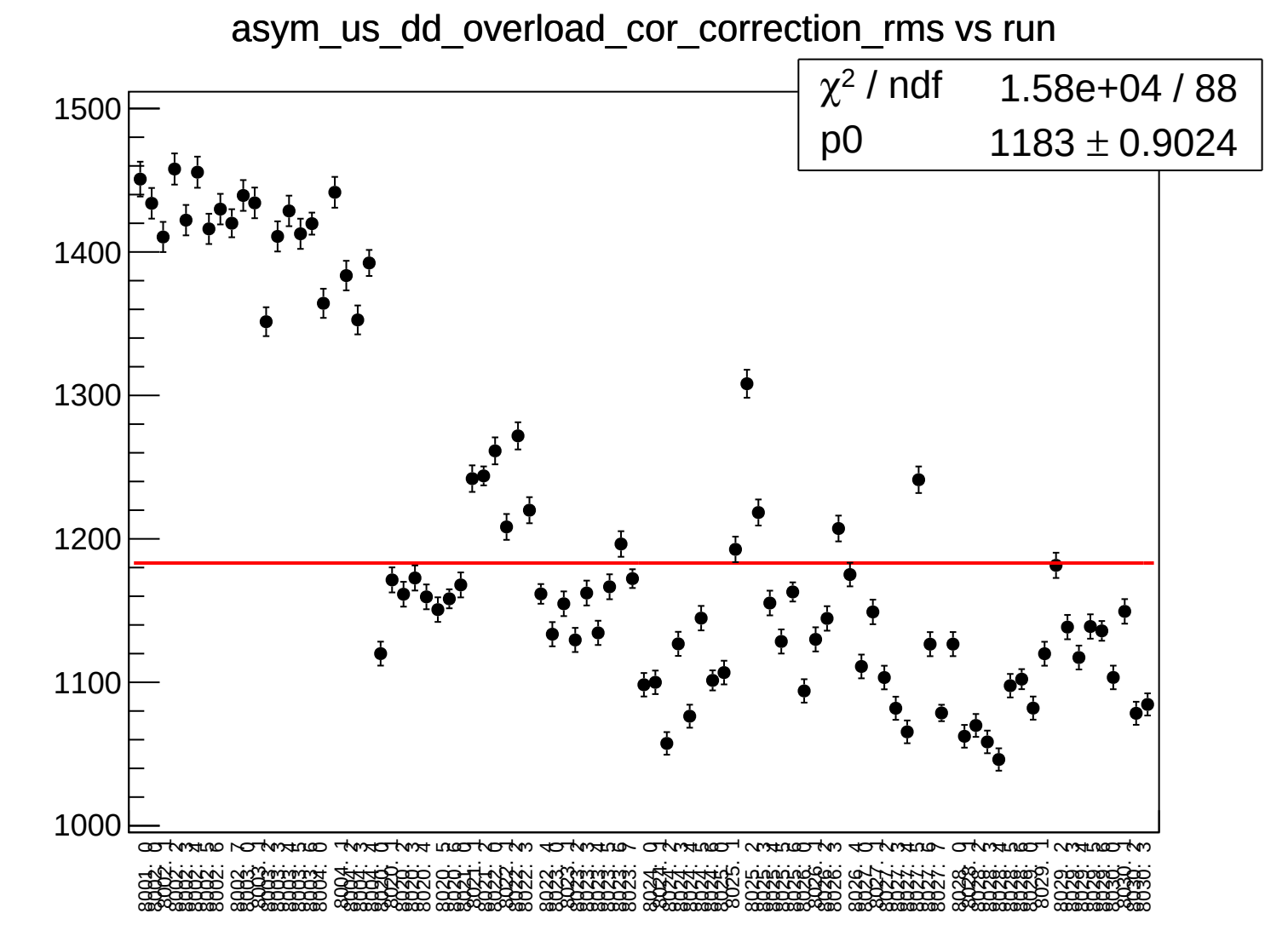

asym_us_dd_cor_correction_rms vs run
χ² / ndf 1.583e+04 / 88
p0 1183 ± 0.9021
1500
1400
1300
1200
1100
1000

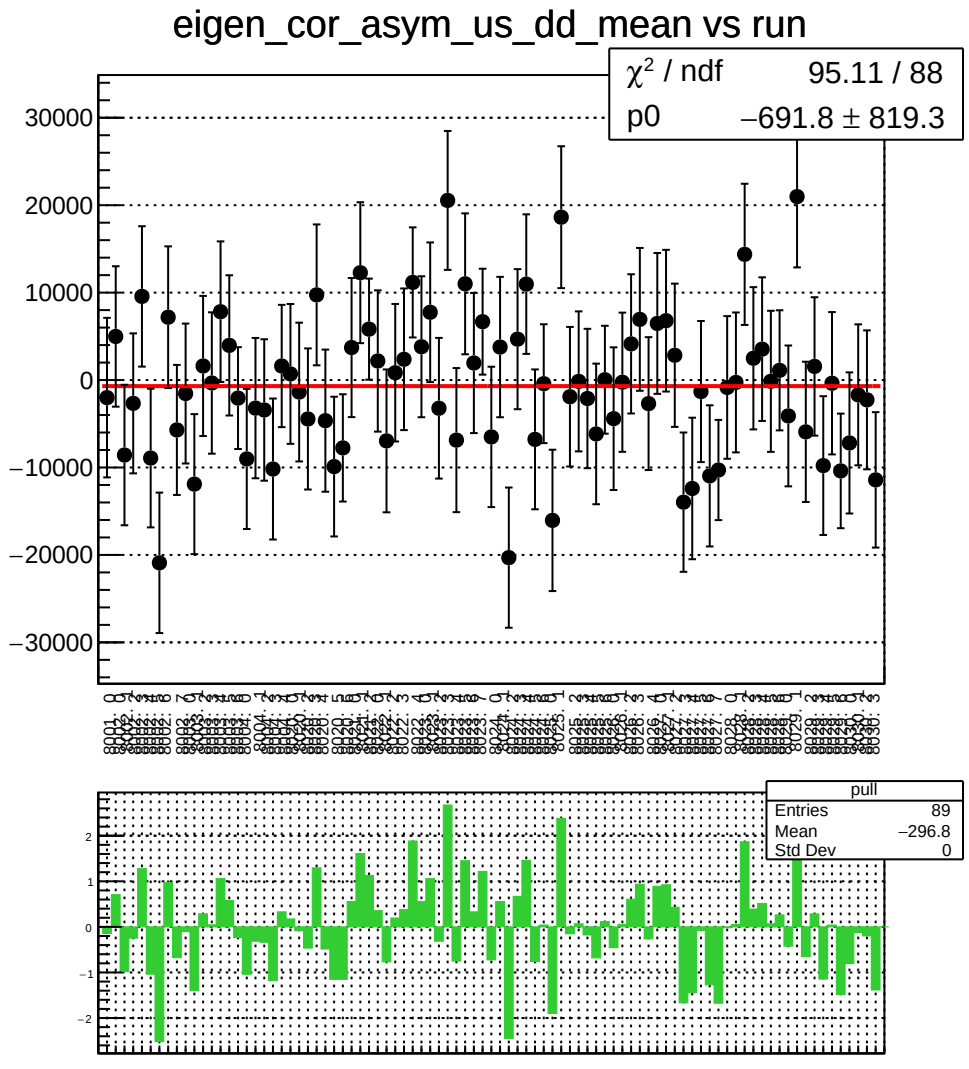

overload_cor_asym_us_dd_mean vs run
χ² / ndf 95.88 / 88
p0 −647.8 ± 818.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −97.8
Std Dev 0
3
2
1
0
−1
−2

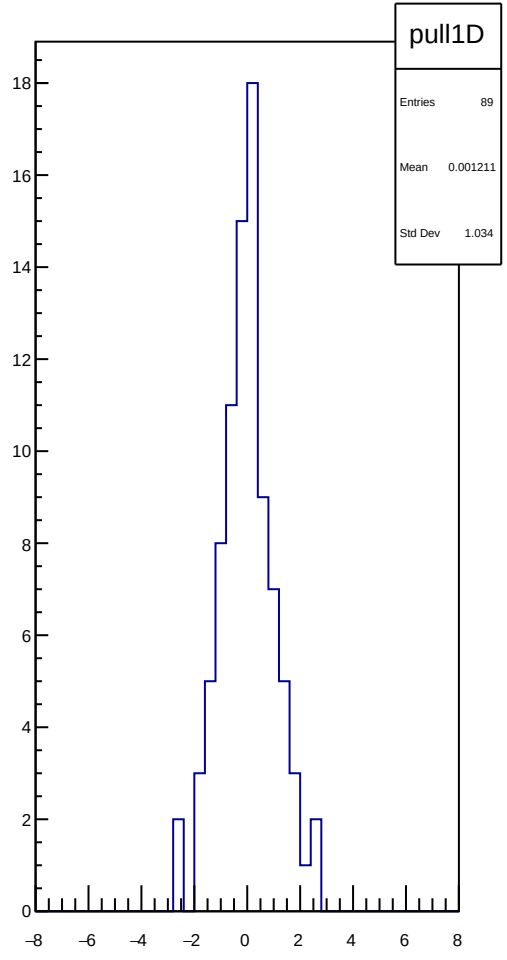

pull1D
Entries 89
Mean 0.001015
Std Dev 1.038
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

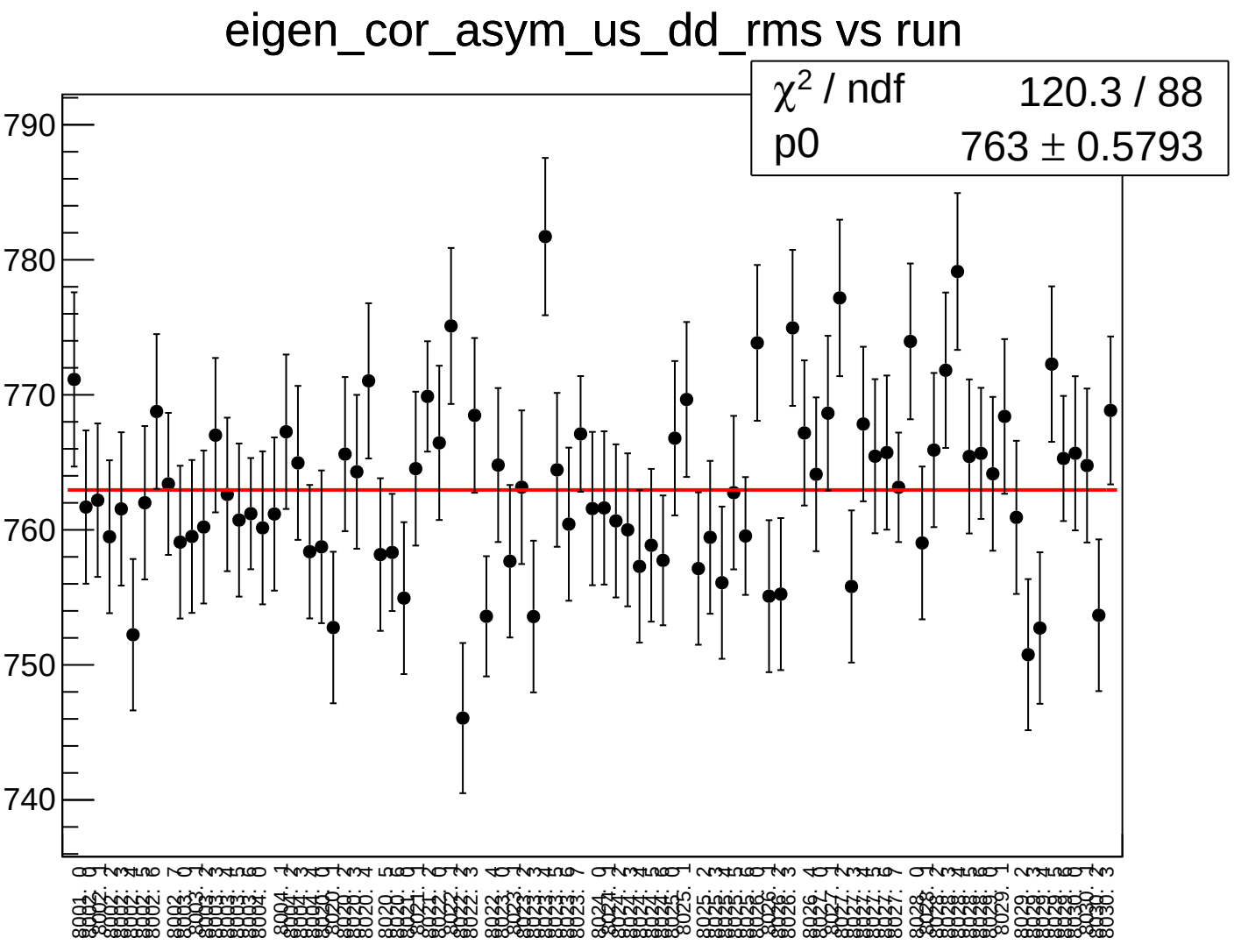

overload_cor_asym_us_dd_rms vs run
χ² / ndf 120.4 / 88
p0 762.4 ± 0.5789
790
780
770
760
750
740

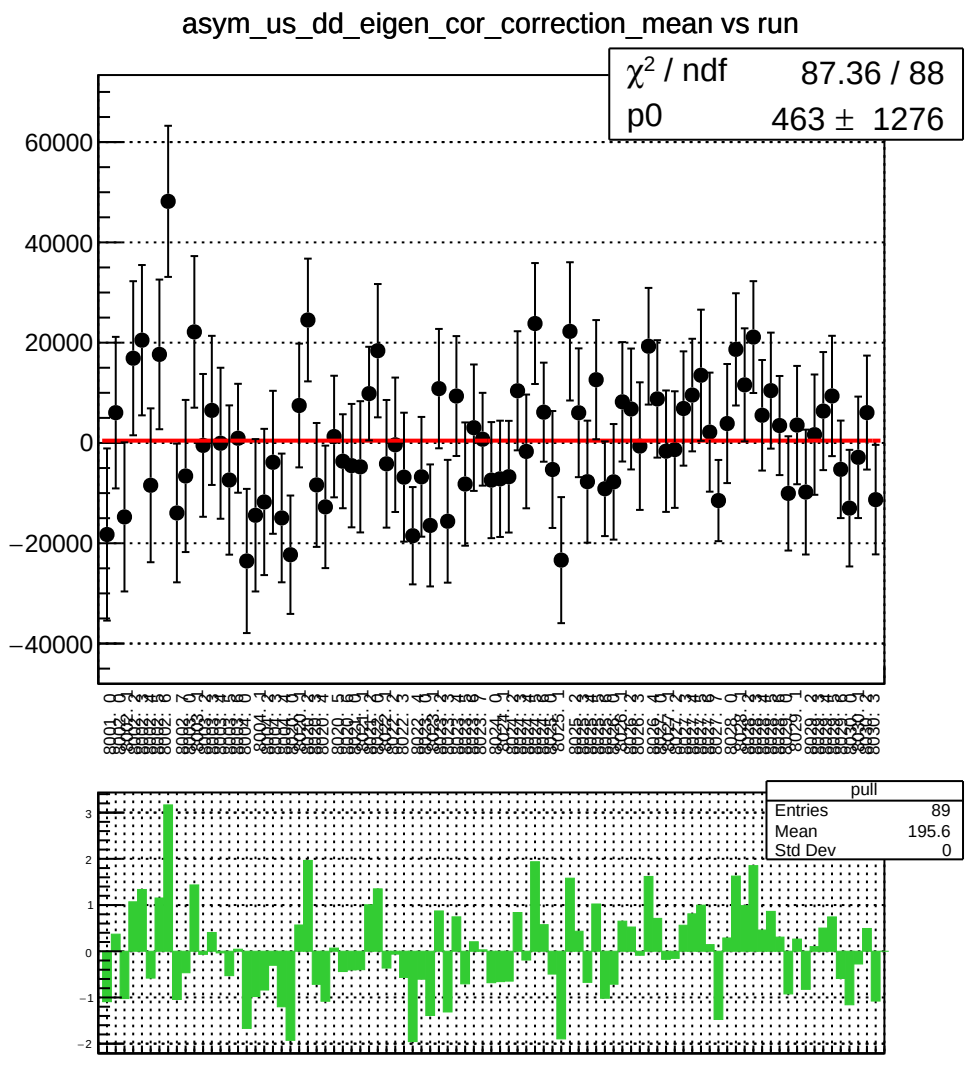

asym_us_dd_overload_cor_correction_mean vs run
χ² / ndf 87.96 / 88
p0 518.6 ± 1276
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 214.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.01313
Std Dev 0.9941
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

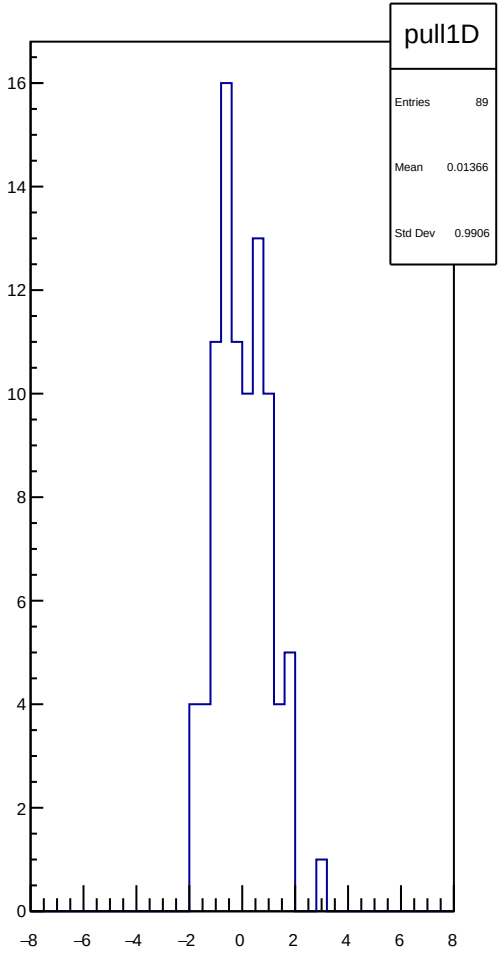

asym_us_dd_overload_cor_correction_rms vs run
χ² / ndf 1.58e+04 / 88
p0 1183 ± 0.9024
1500
1400
1300
1200
1100
1000

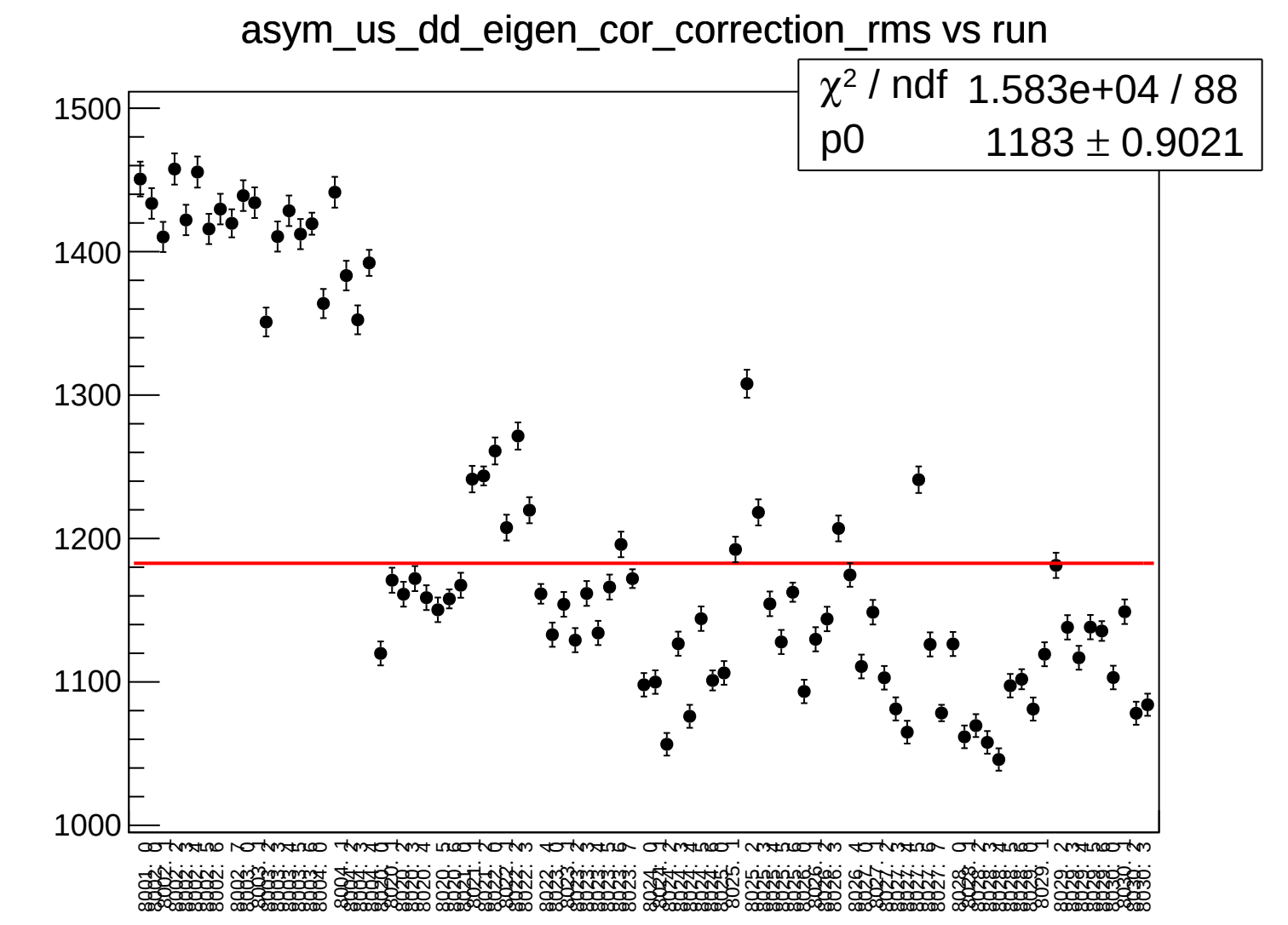

eigen_cor_asym_us_dd_mean vs run
χ² / ndf 95.11 / 88
p0 −691.8 ± 819.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −296.8
Std Dev 0
2
1
0
−1
−2

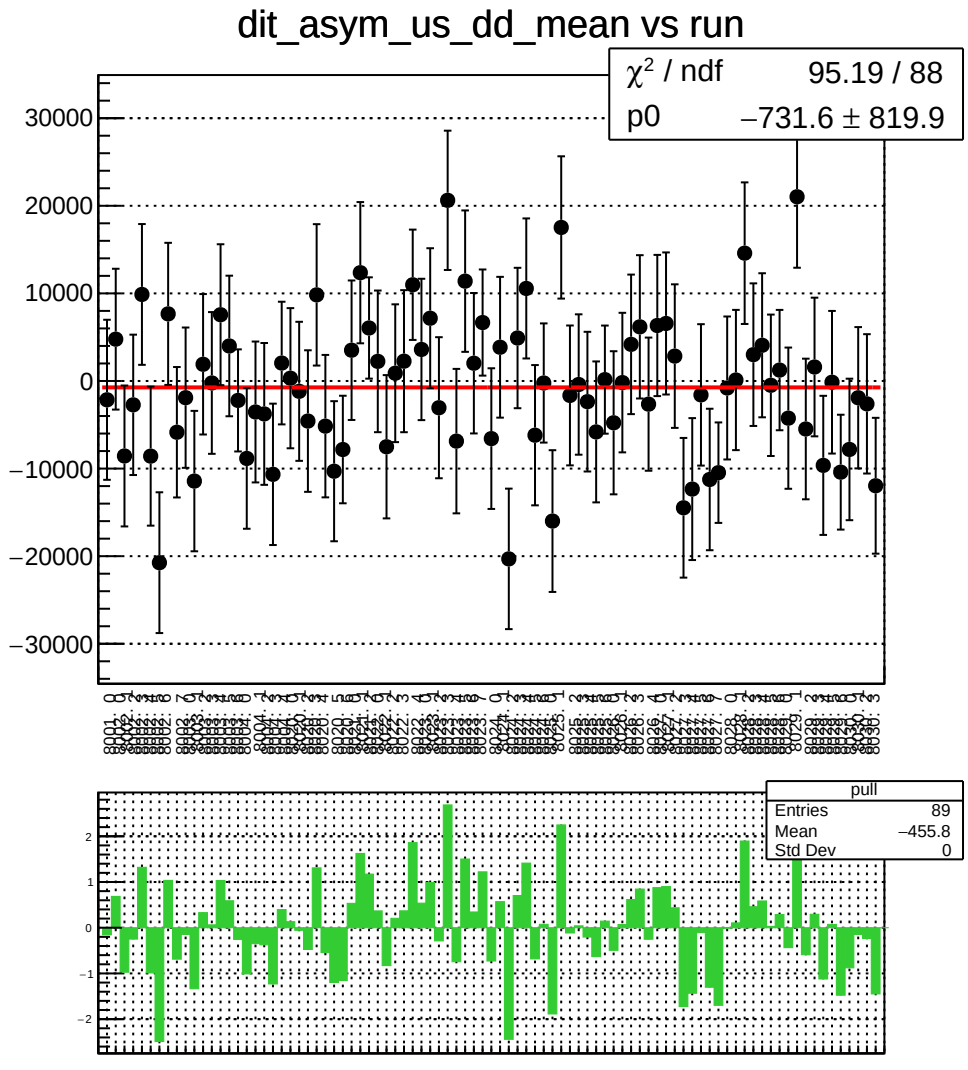

pull1D
Entries 89
Mean 0.001211
Std Dev 1.034
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

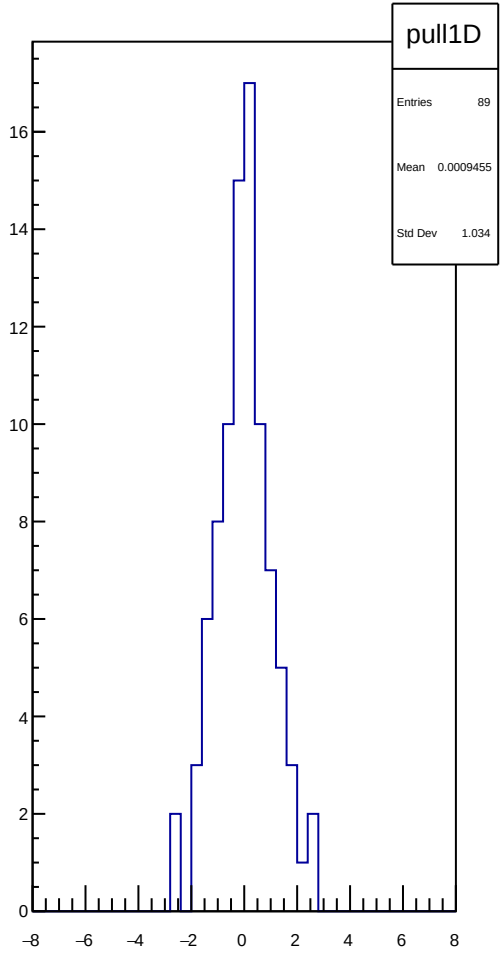

eigen_cor_asym_us_dd_rms vs run
χ^2 / ndf 120.3 / 88
p0 763 ± 0.5793
790
780
770
760
750
740

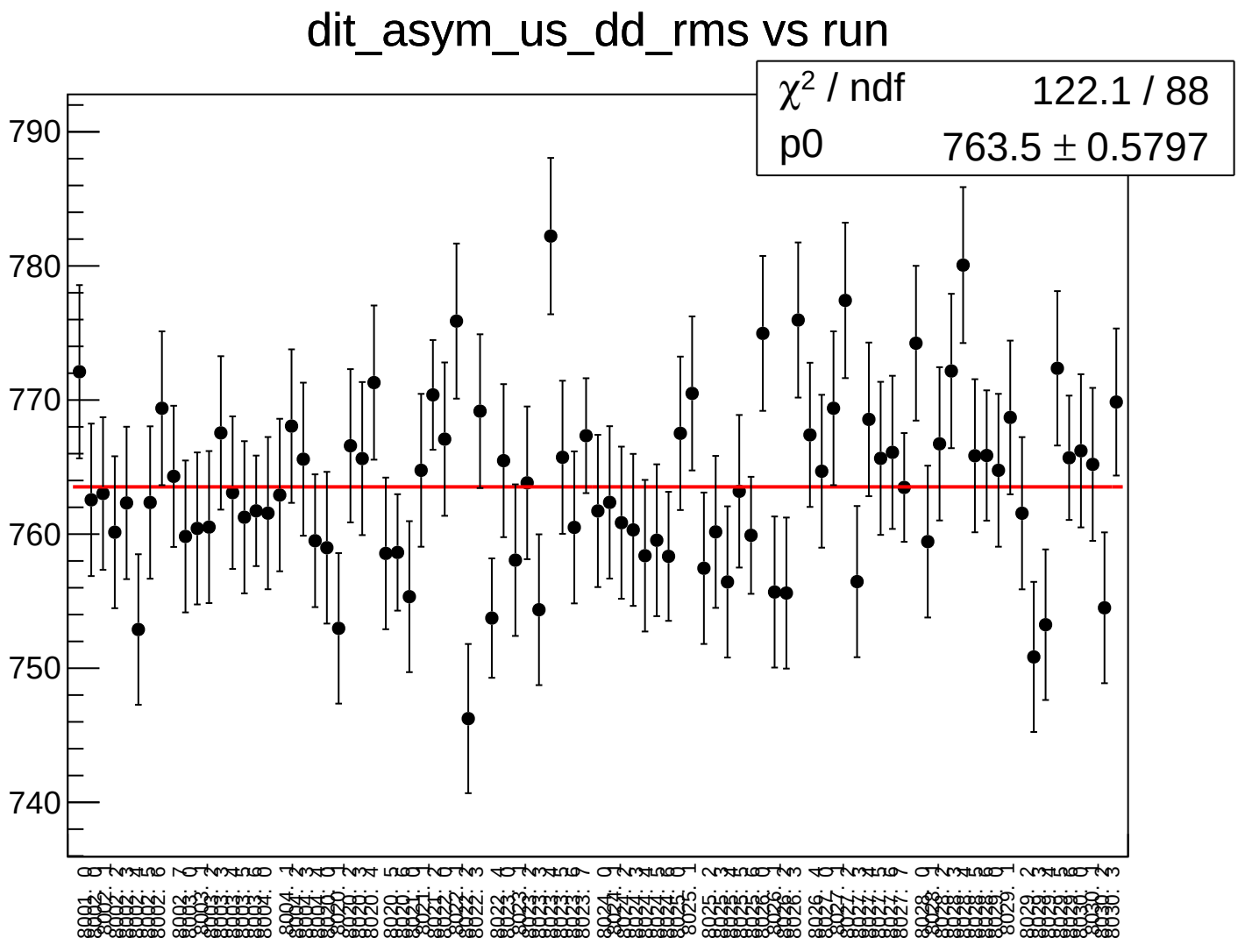

asym_us_dd_eigen_cor_correction_mean vs run
χ² / ndf 87.36 / 88
p0 463 ± 1276
pull
Entries 89
Mean 195.6
Std Dev 0

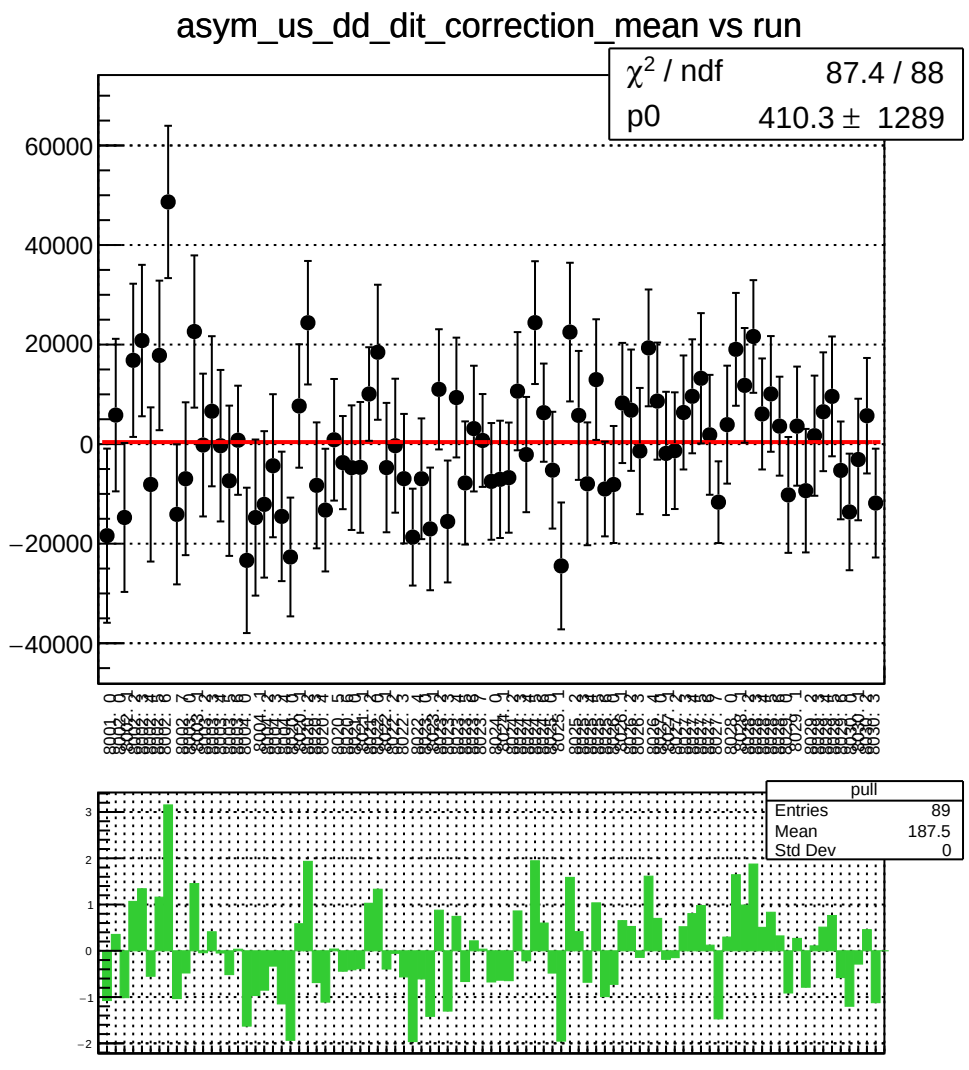

pull1D
Entries 89
Mean 0.01366
Std Dev 0.9906

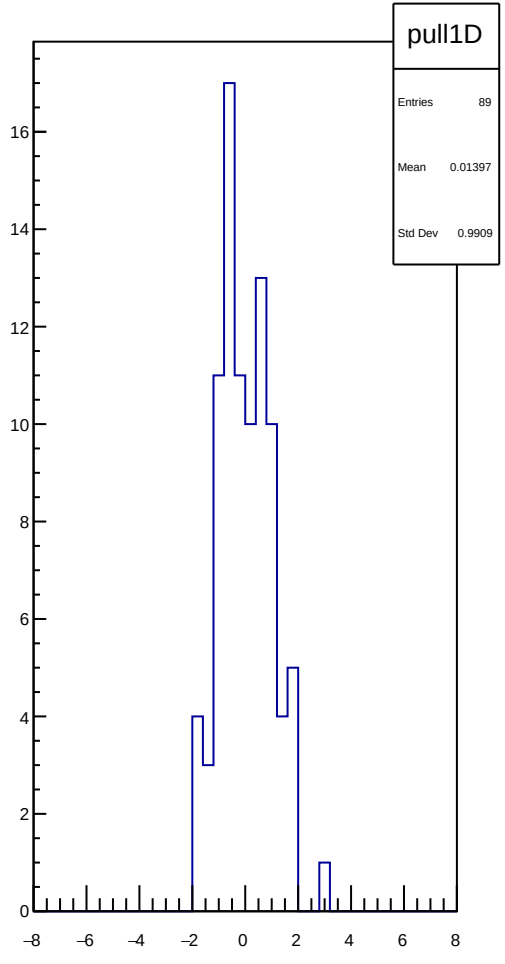

asym_us_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.583e+04 / 88
p0 1183 ± 0.9021
1500
1400
1300
1200
1100
1000

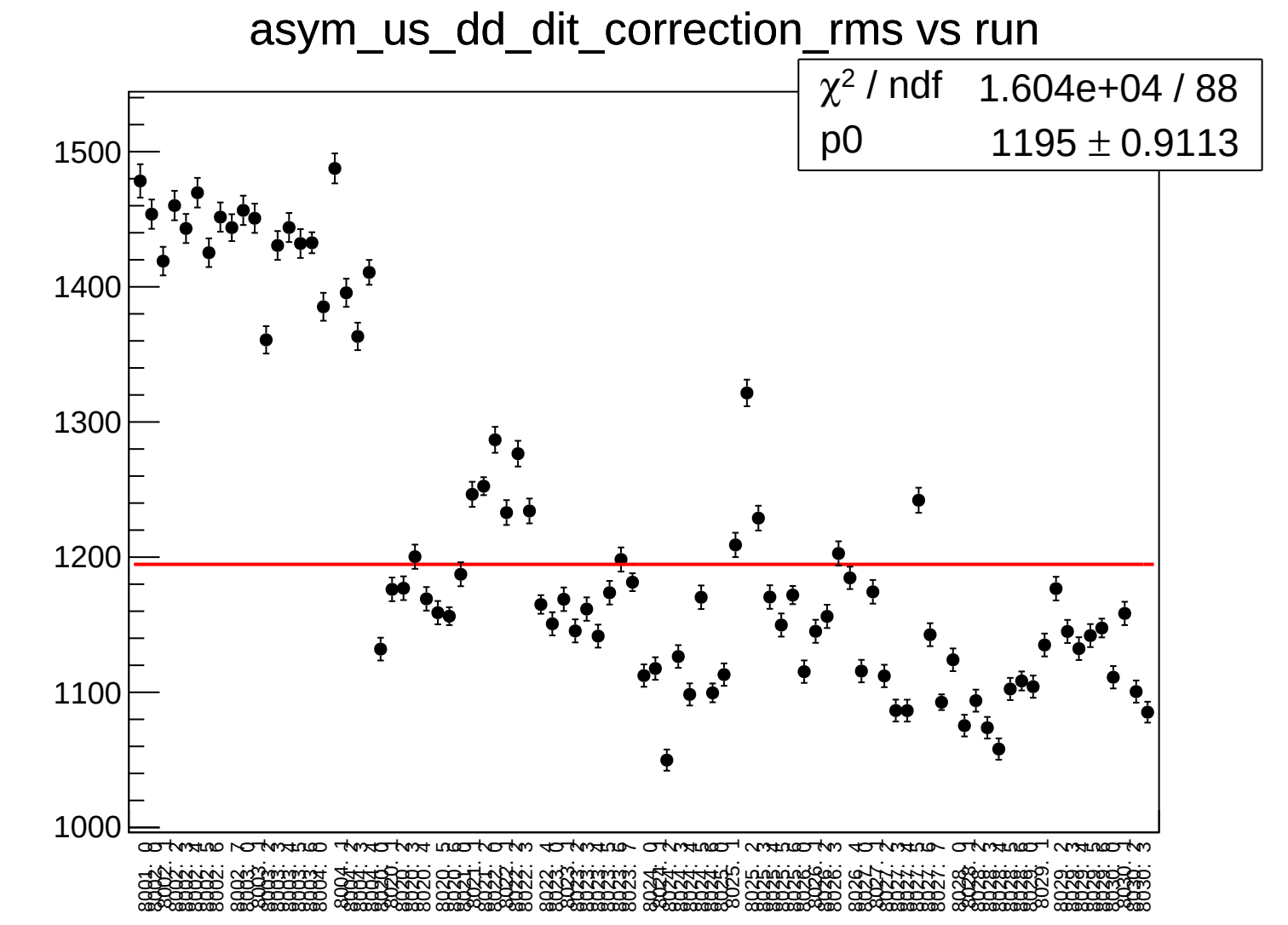

dit_asym_us_dd_mean vs run
χ² / ndf 95.19 / 88
p0 −731.6 ± 819.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −455.8
Std Dev 0
2
1
0
−1
−2

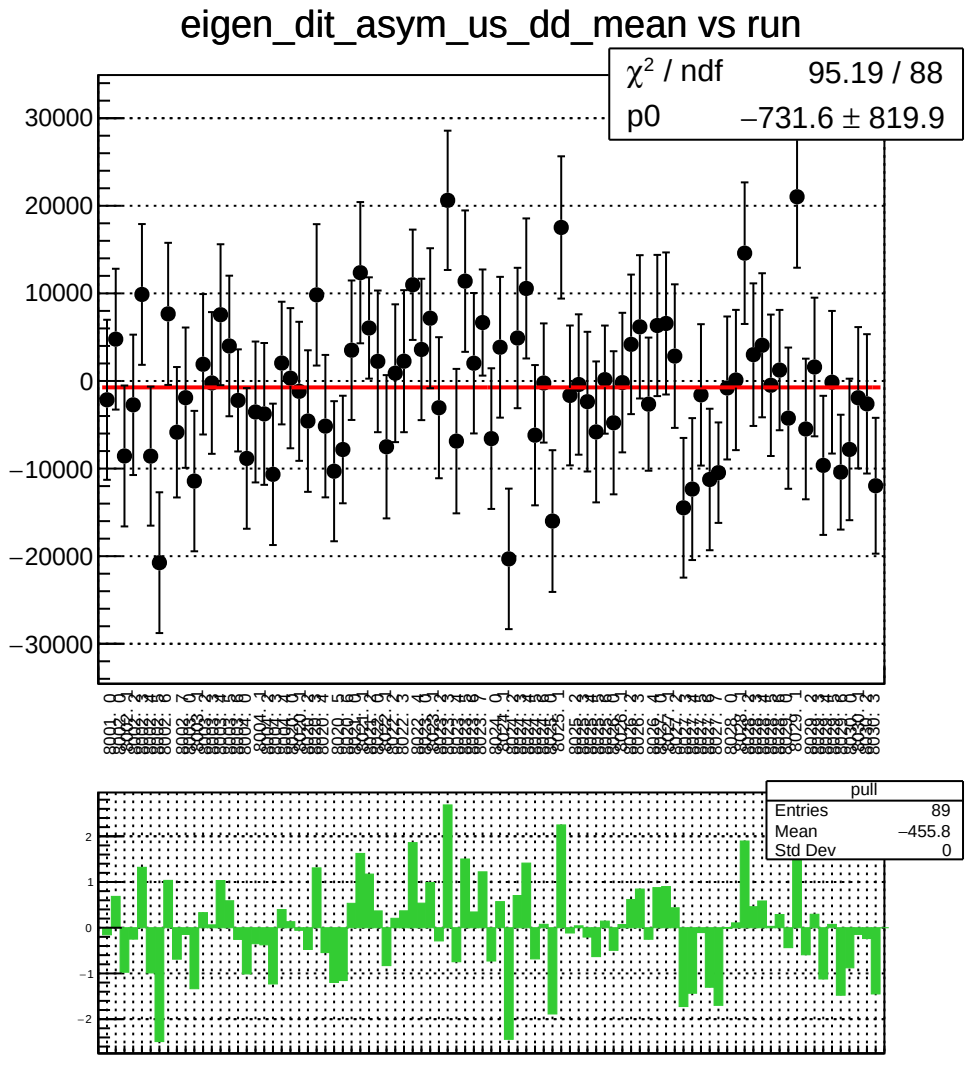

pull1D
Entries 89
Mean 0.0009455
Std Dev 1.034
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

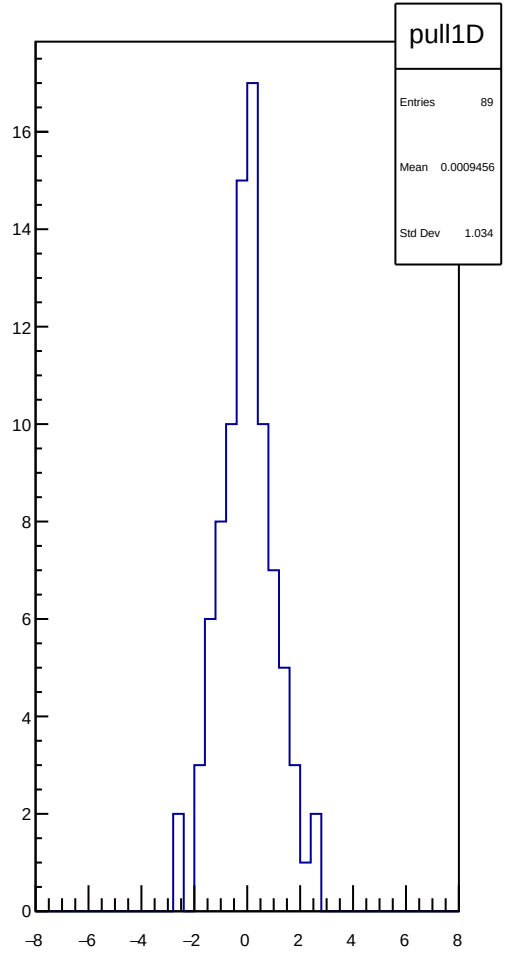

dit_asym_us_dd_rms vs run
χ² / ndf 122.1 / 88
p0 763.5 ± 0.5797
790
780
770
760
750
740

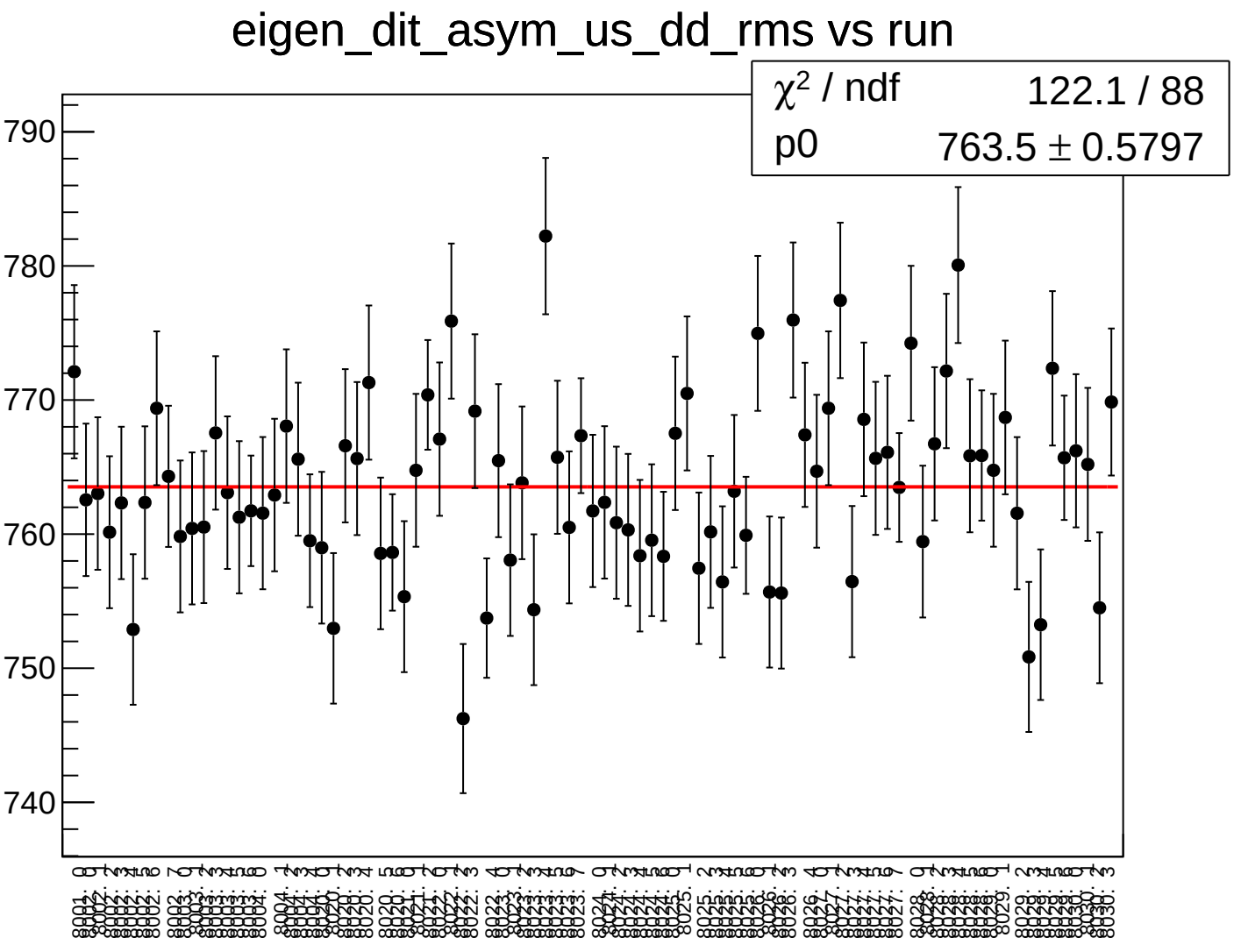

asym_us_dd_dit_correction_mean vs run
χ² / ndf 87.4 / 88
p0 410.3 ± 1289
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 187.5
Std Dev 0
3
2
1
0
−1
−2

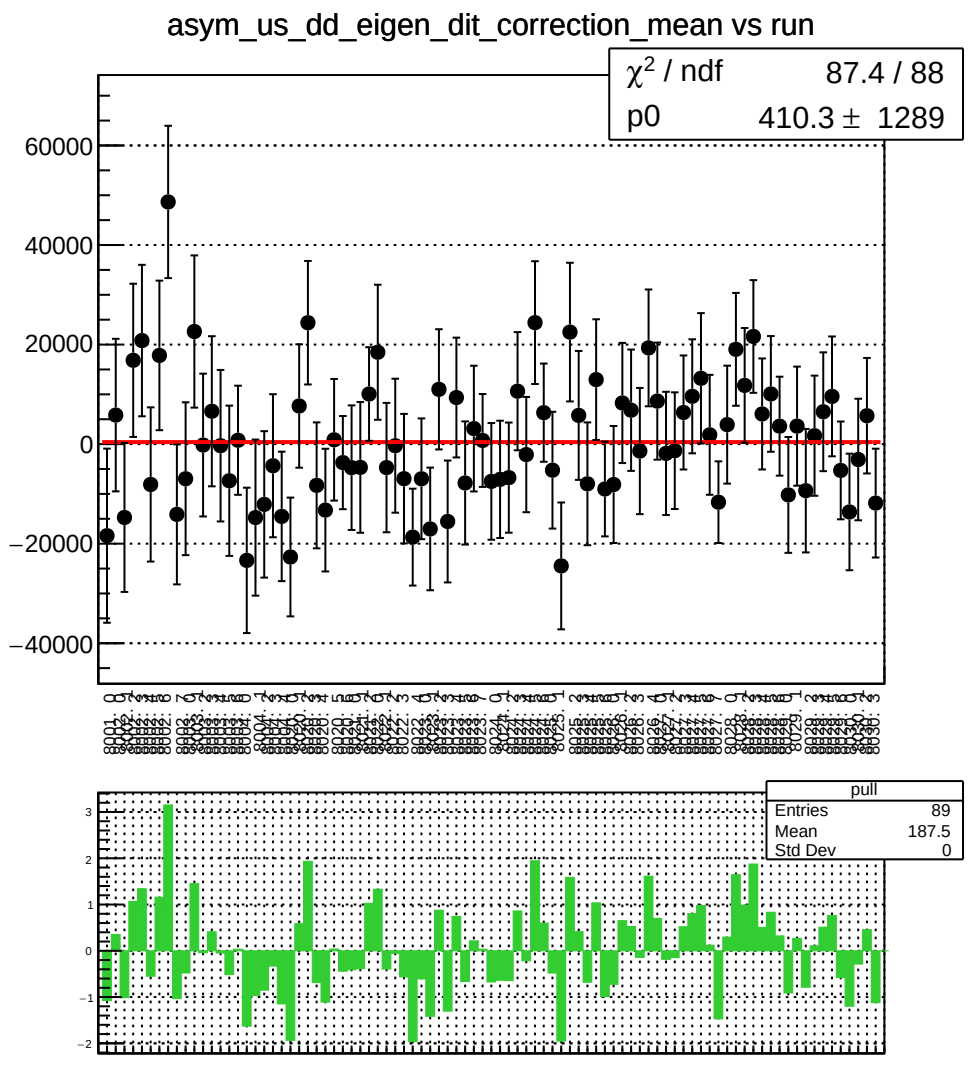

pull1D
Entries 89
Mean 0.01397
Std Dev 0.9909
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

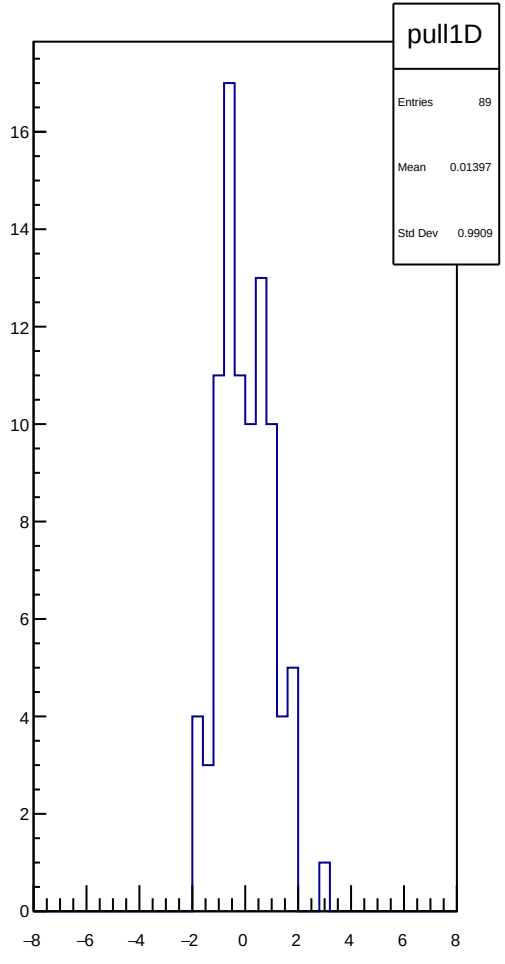

asym_us_dd_dit_correction_rms vs run
χ² / ndf 1.604e+04 / 88
p0 1195 ± 0.9113
1500
1400
1300
1200
1100
1000

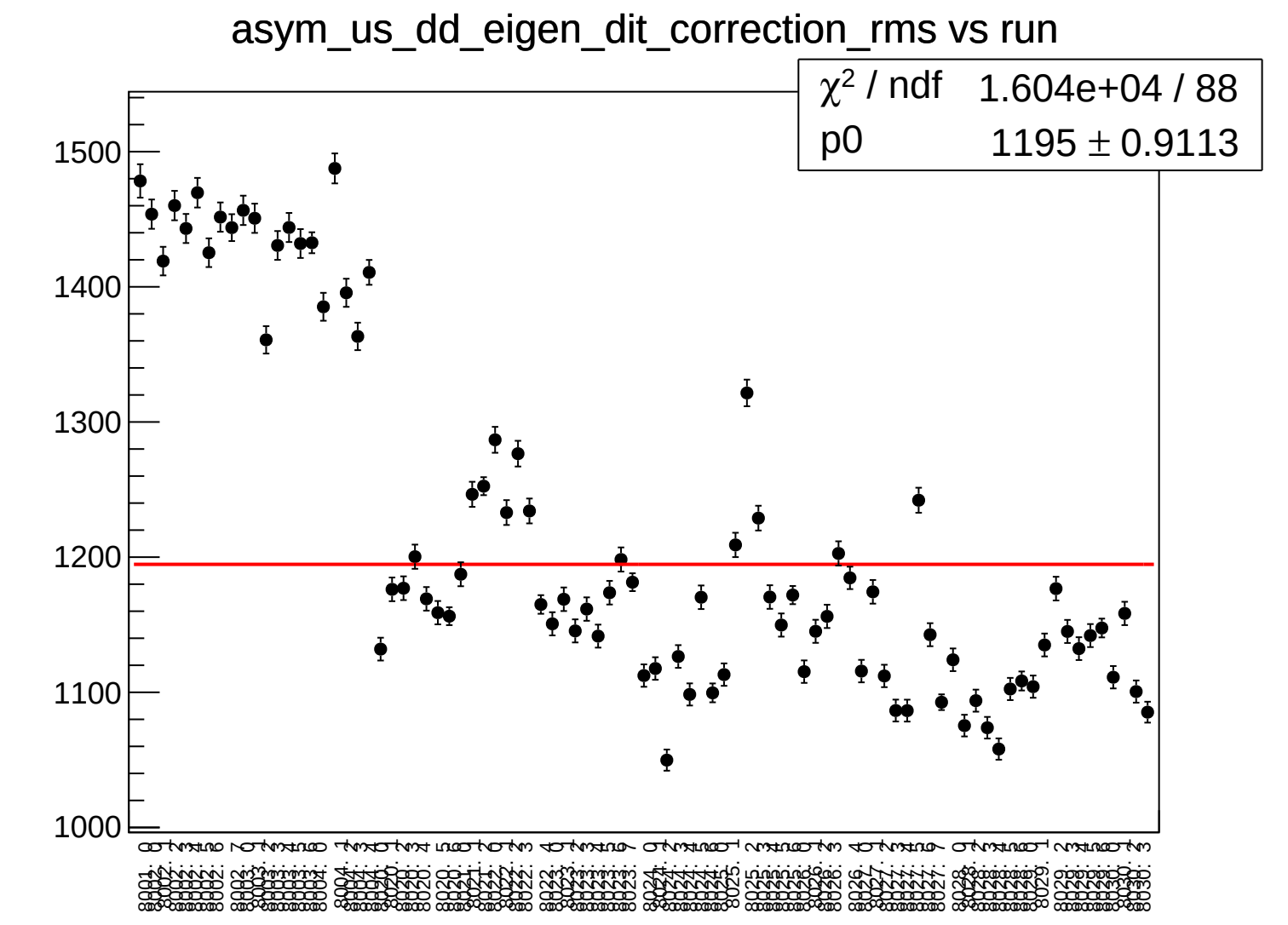

eigen_dit_asym_us_dd_mean vs run
χ² / ndf 95.19 / 88
p0 −731.6 ± 819.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −455.8
Std Dev 0
2
1
0
−1
−2

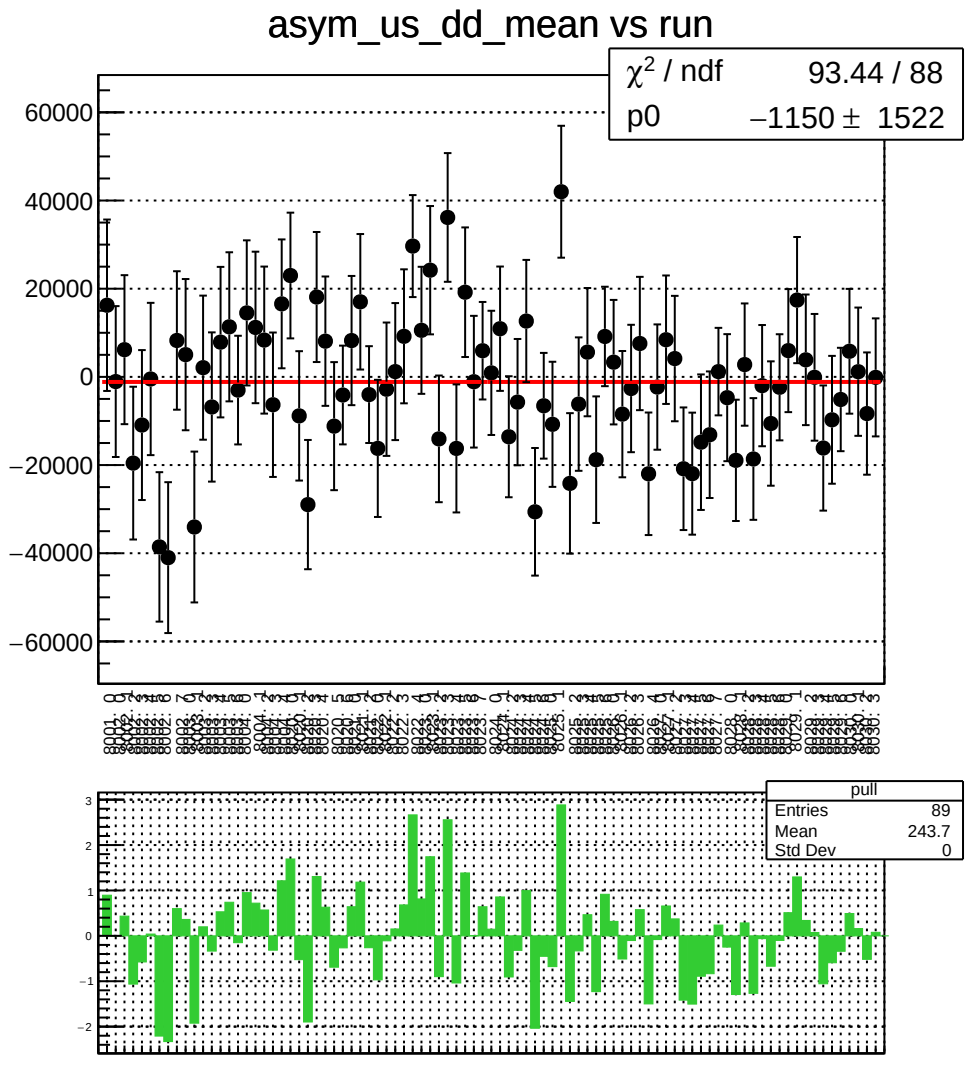

pull1D
Entries 89
Mean 0.0009456
Std Dev 1.034
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

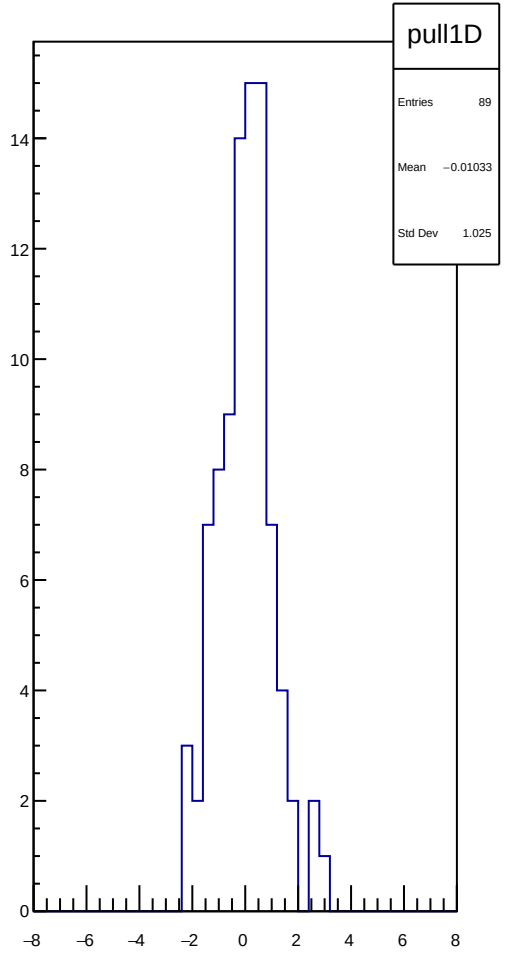

eigen_dit_asym_us_dd_rms vs run
χ² / ndf 122.1 / 88
p0 763.5 ± 0.5797
790
780
770
760
750
740

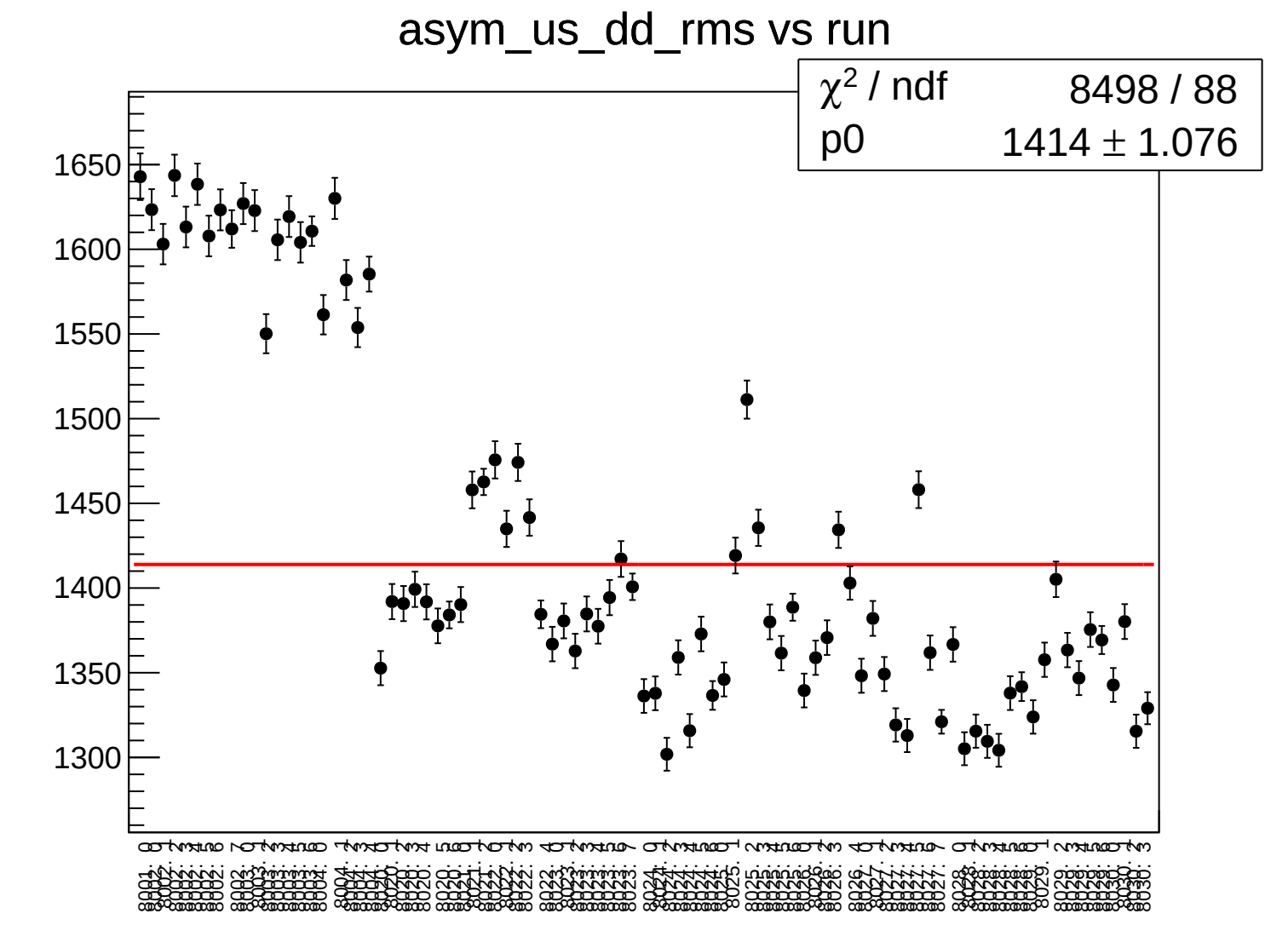

asym_us_dd_eigen_dit_correction_mean vs run
χ² / ndf 87.4 / 88
p0 410.3 ± 1289
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 187.5
Std Dev 0
3
2
1
0
−1
−2

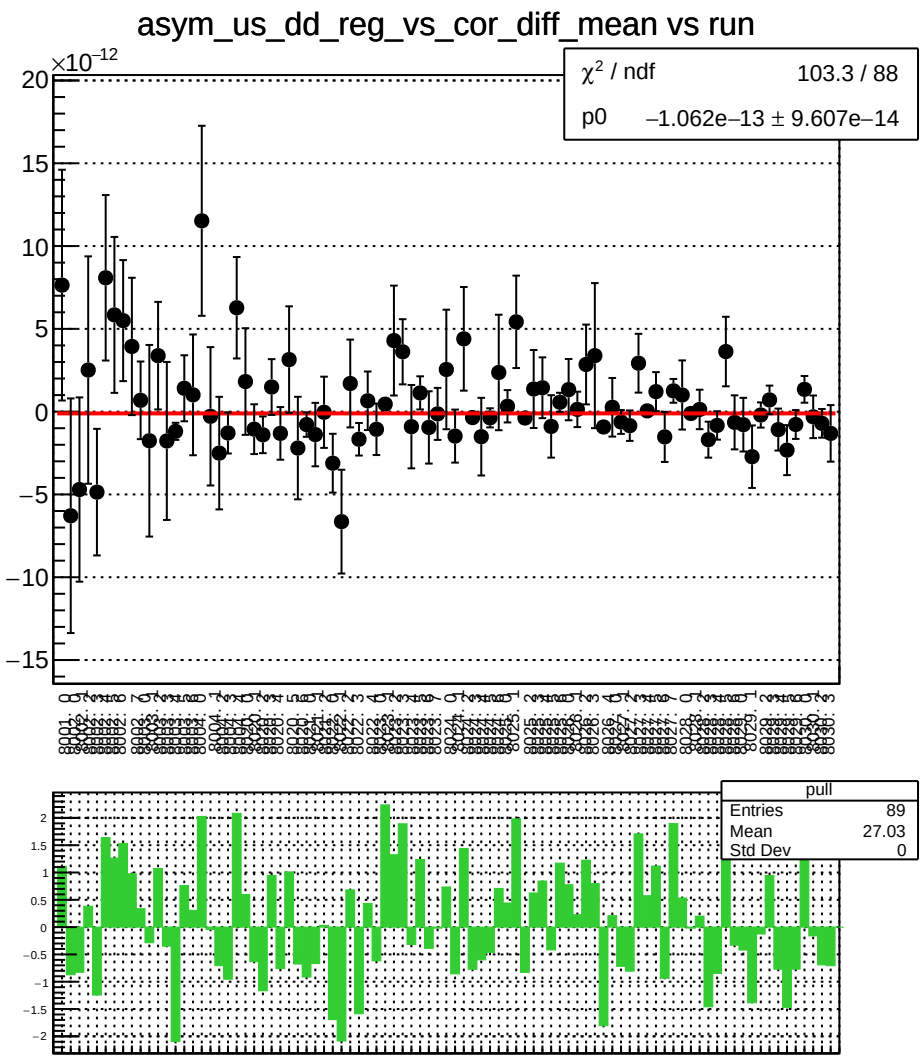

pull1D
Entries 89
Mean 0.01397
Std Dev 0.9909
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

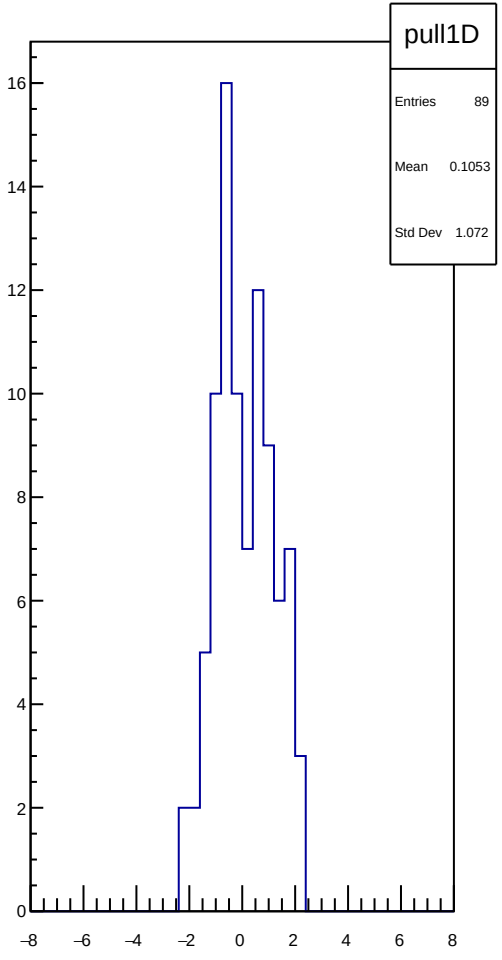

asym_us_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.604e+04 / 88
p0 1195 ± 0.9113
1500
1400
1300
1200
1100
1000

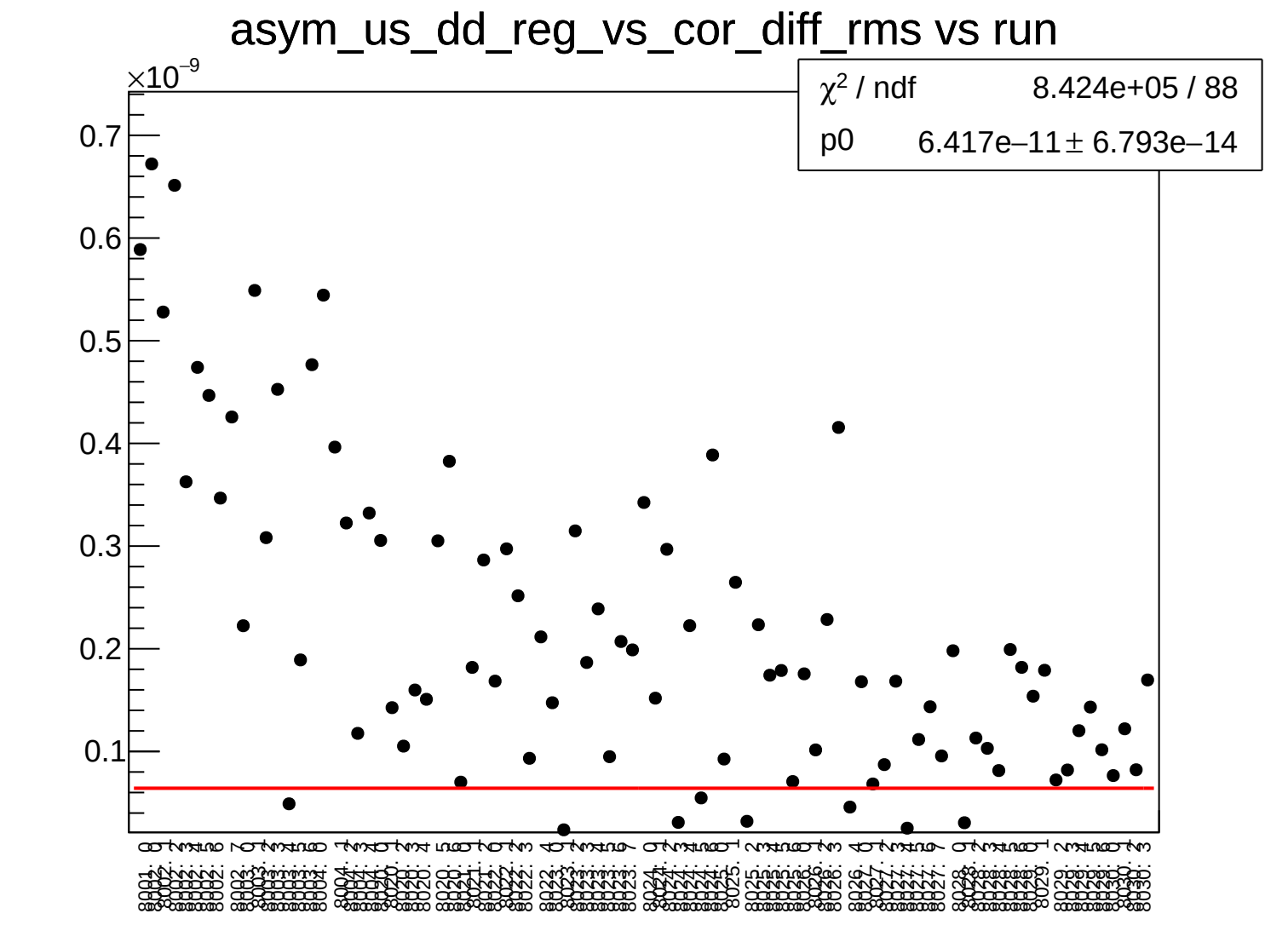

asym_us_dd_mean vs run
χ² / ndf 93.44 / 88
p0 −1150 ± 1522
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 243.7
Std Dev 0
3
2
1
0
−1
−2

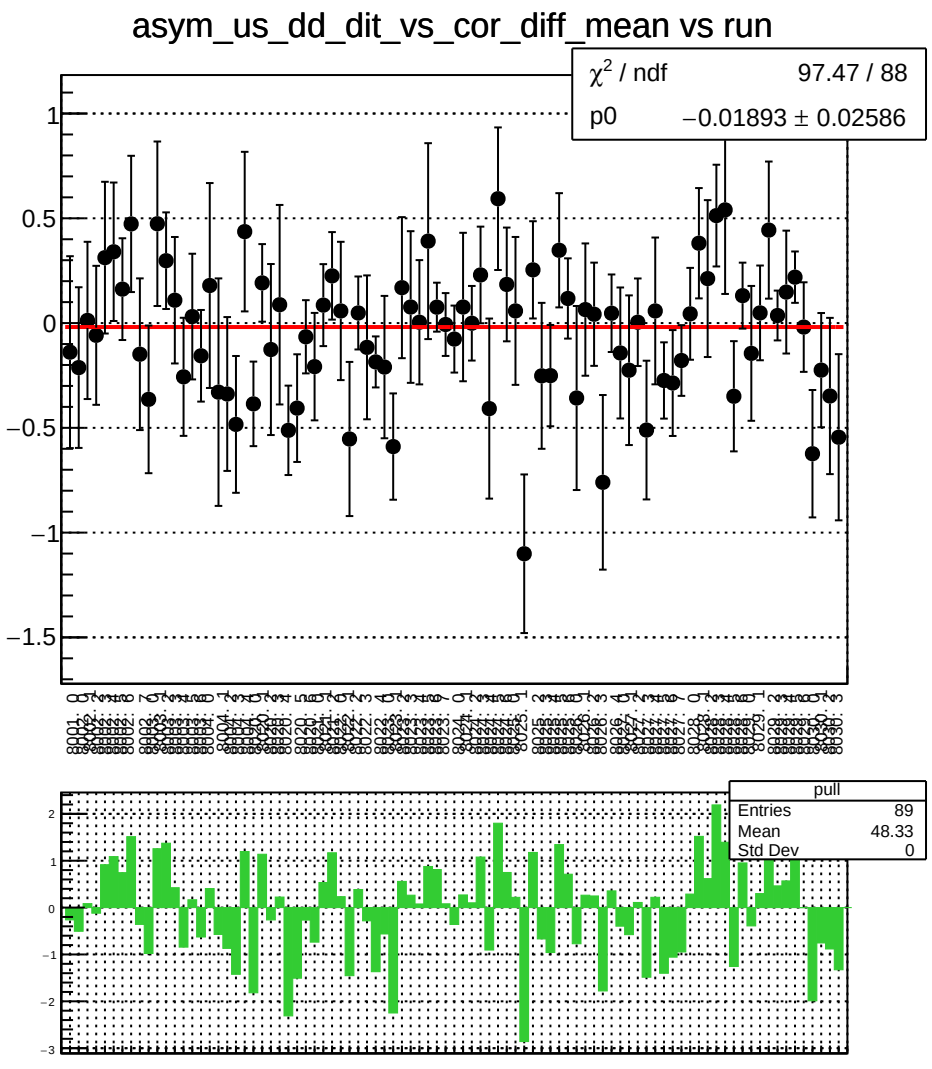

pull1D
Entries 89
Mean −0.01033
Std Dev 1.025
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

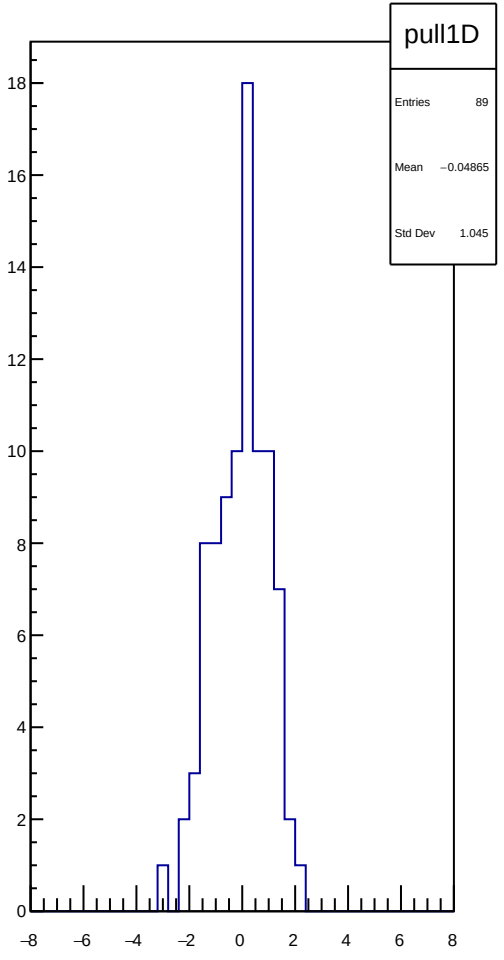

asym_us_dd_rms vs run
χ² / ndf 8498 / 88
p0 1414 ± 1.076
1650
1600
1550
1500
1450
1400
1350
1300

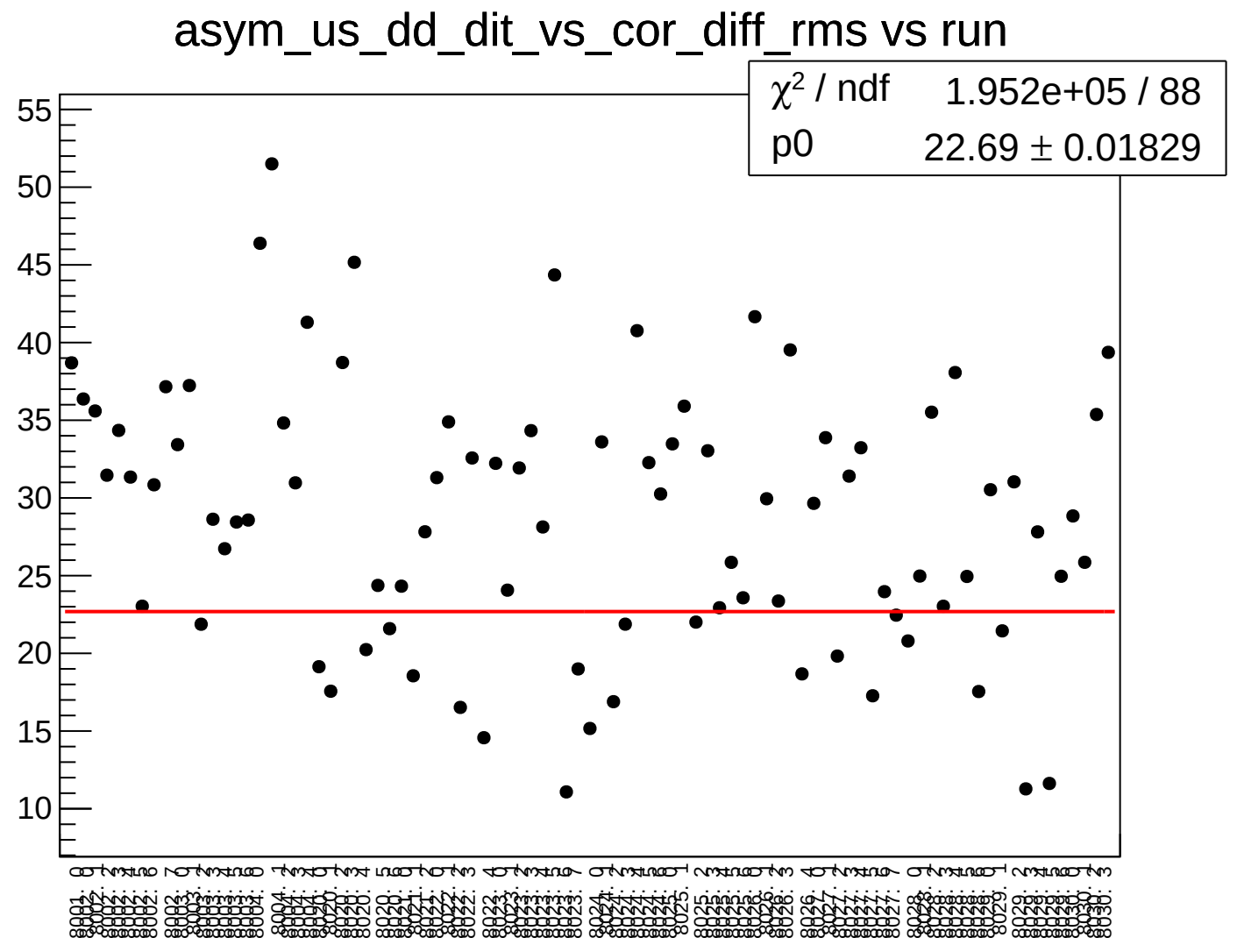

asym_us_dd_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 103.3 / 88
p0 −1.062e−13 ± 9.607e−14
pull
Entries 89
Mean 27.03
Std Dev 0

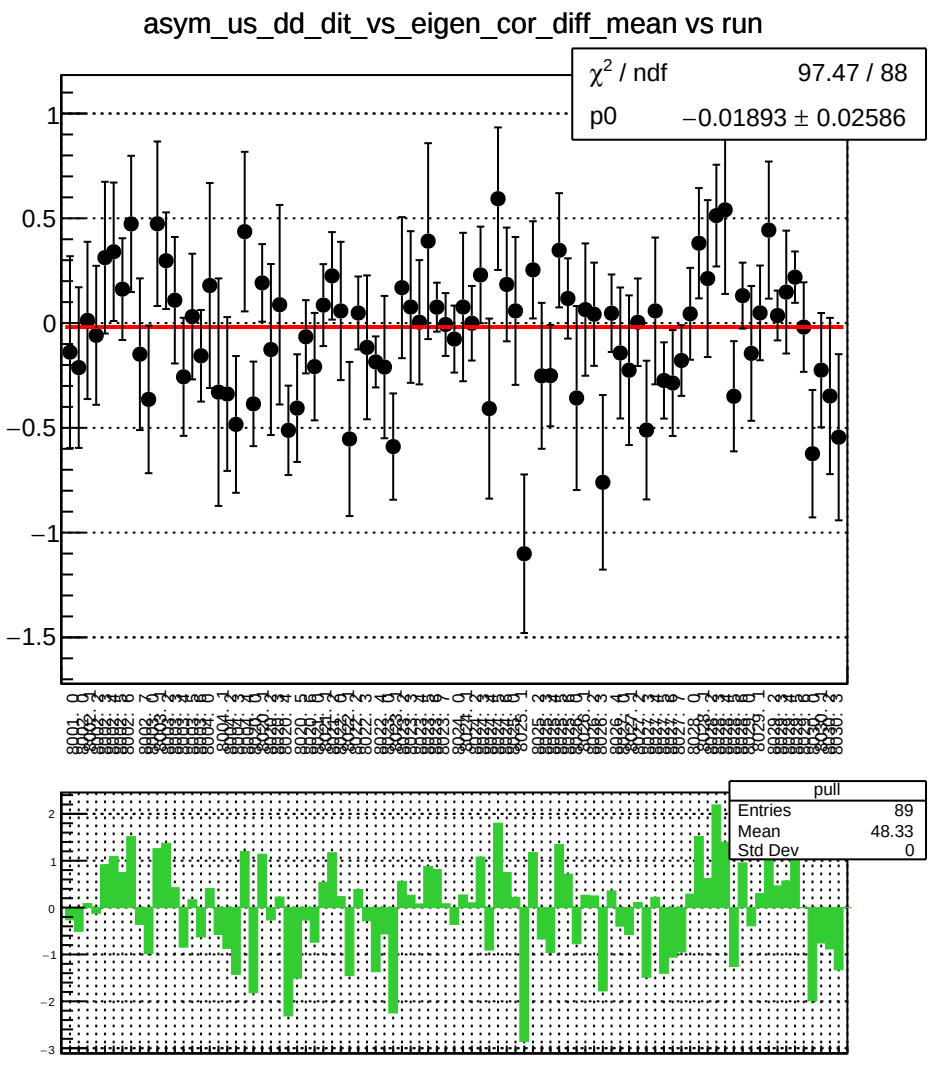

pull1D
Entries 89
Mean 0.1053
Std Dev 1.072

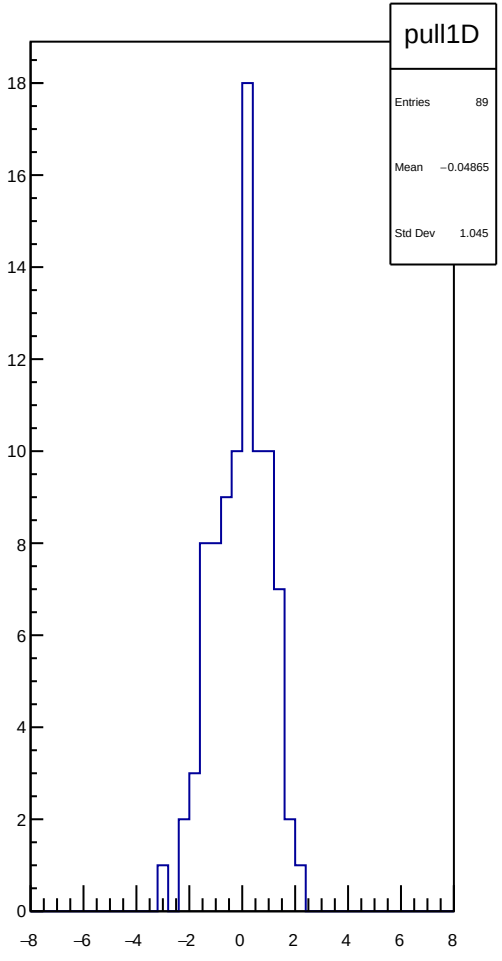

asym_us_dd_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.424e+05 / 88
p0 6.417e−11 ± 6.793e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

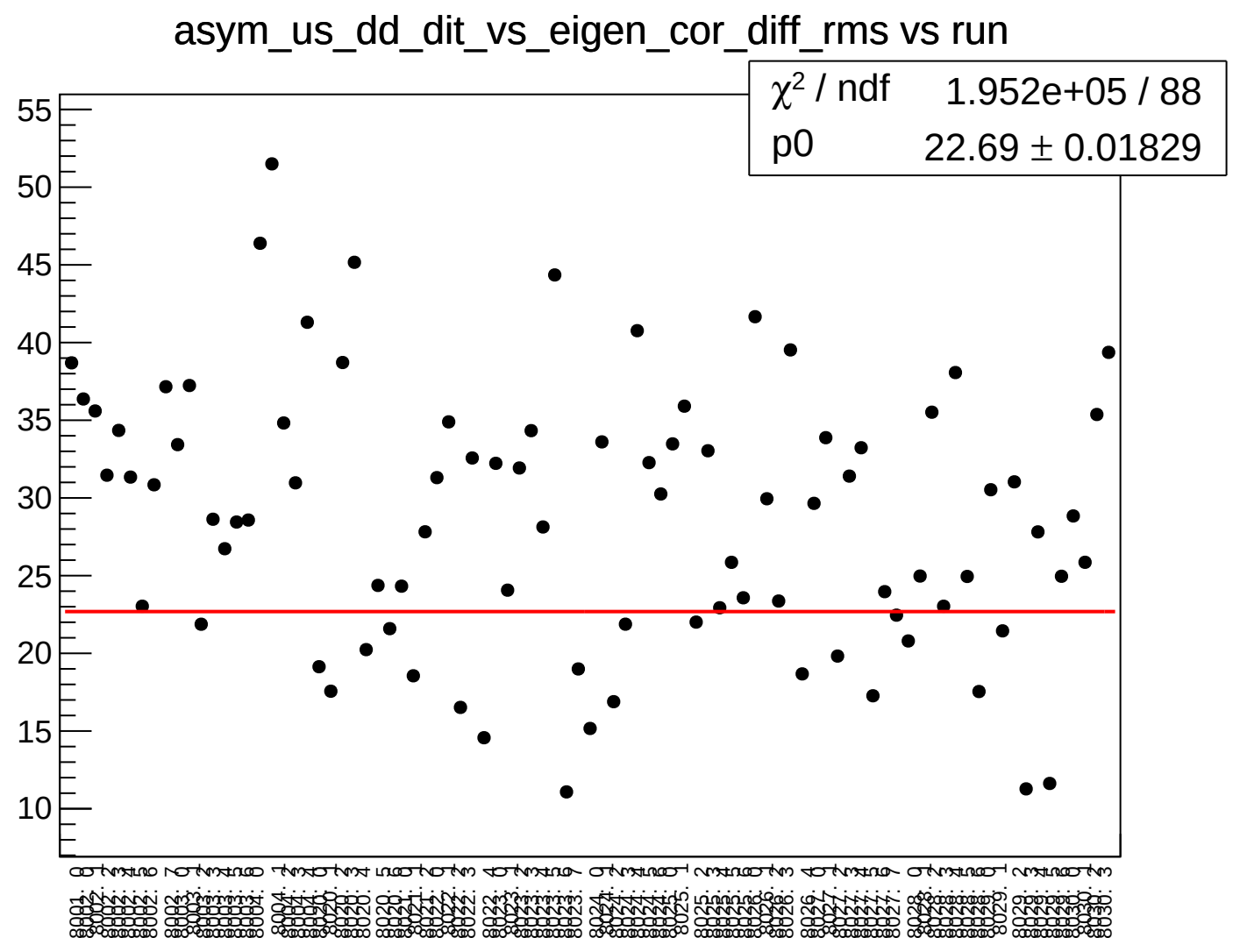

asym_us_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 97.47 / 88
p0 −0.01893 ± 0.02586
pull
Entries 89
Mean 48.33
Std Dev 0

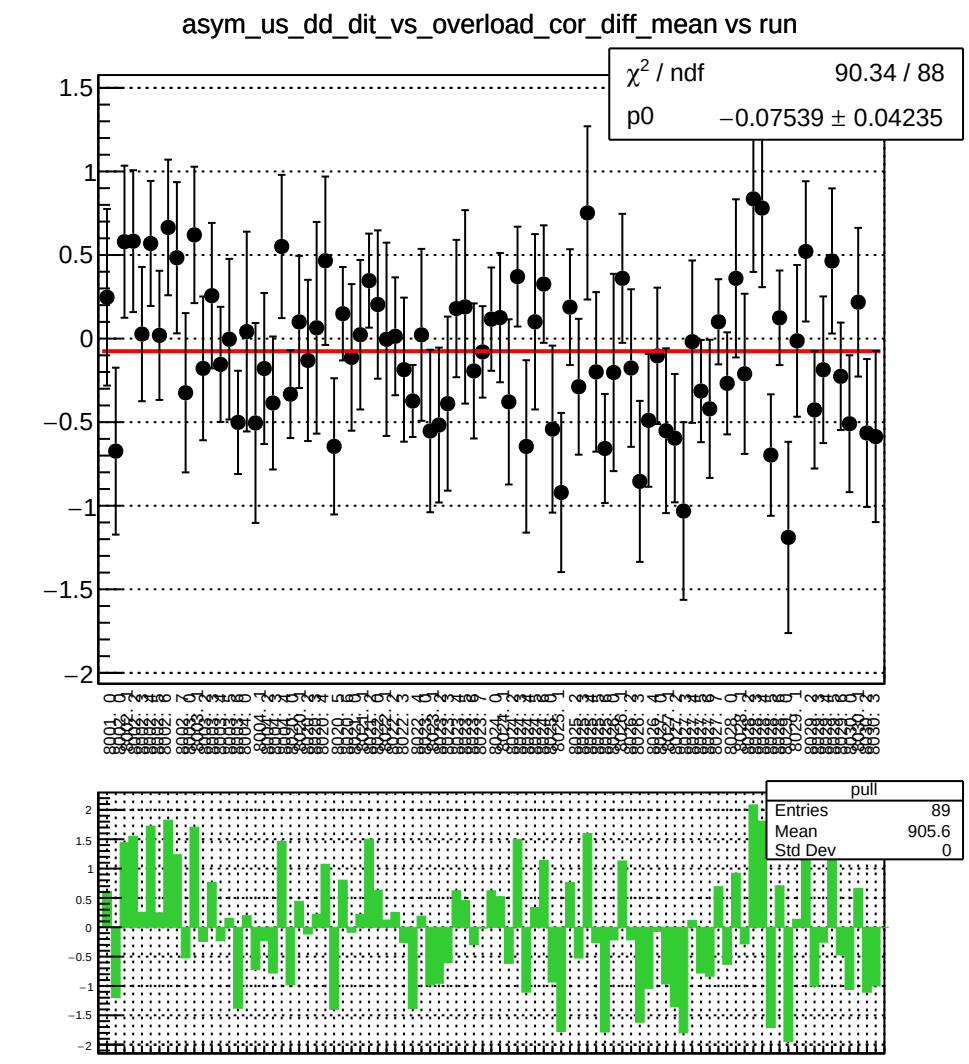

pull1D
Entries 89
Mean −0.04865
Std Dev 1.045

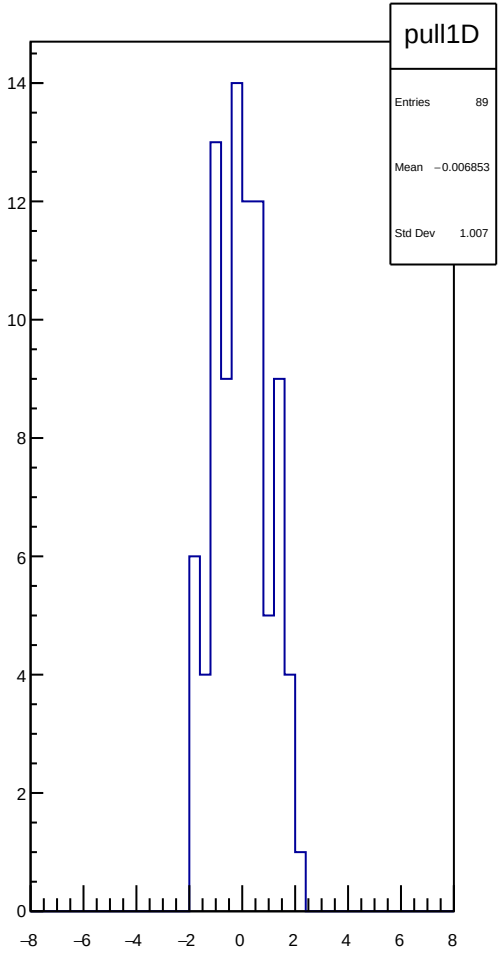

asym_us_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.952e+05 / 88
p0 22.69 ± 0.01829
55
50
45
40
35
30
25
20
15
10

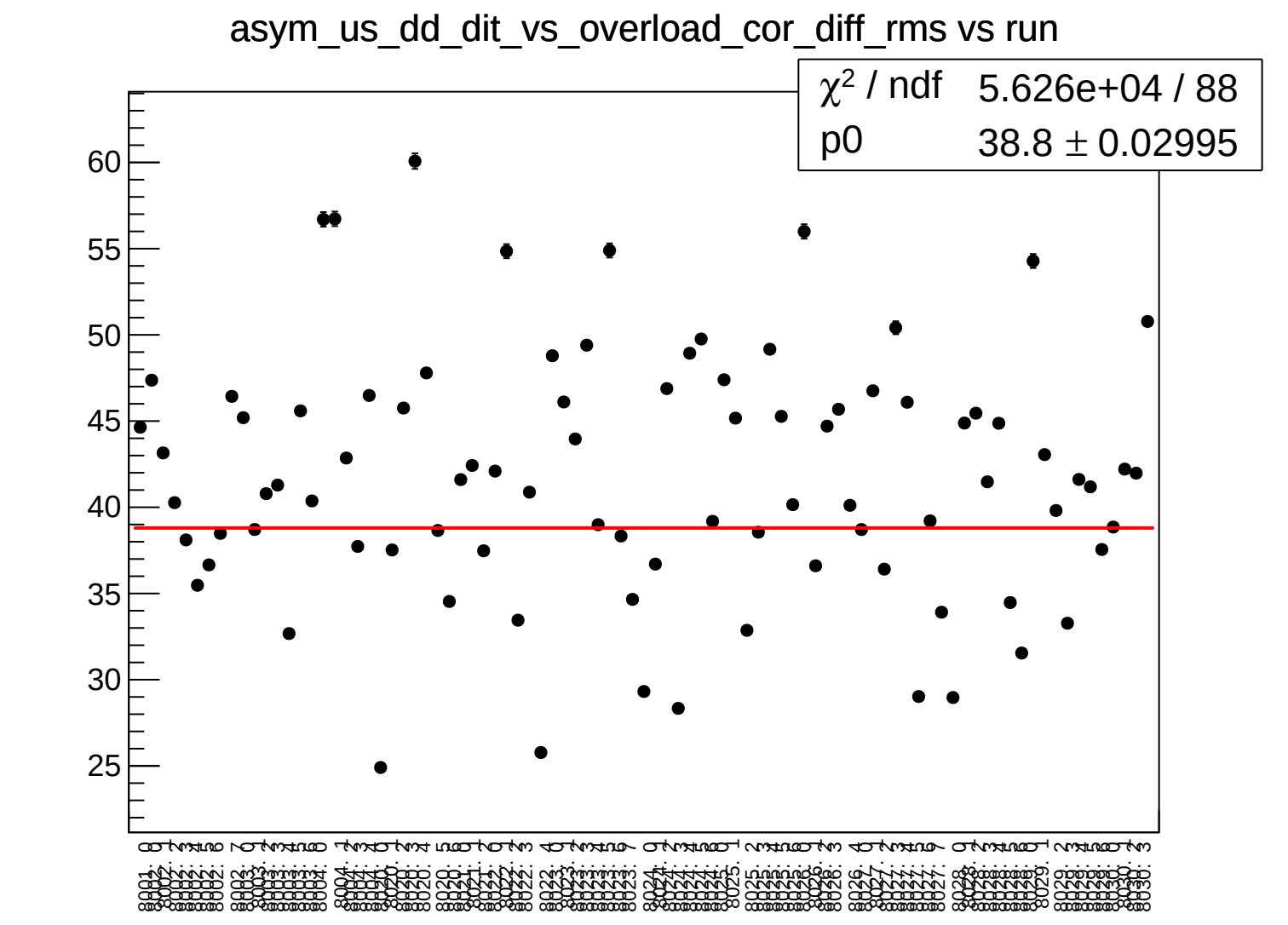

asym_us_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.47 / 88
p0 −0.01893 ± 0.02586
pull
Entries 89
Mean 48.33
Std Dev 0

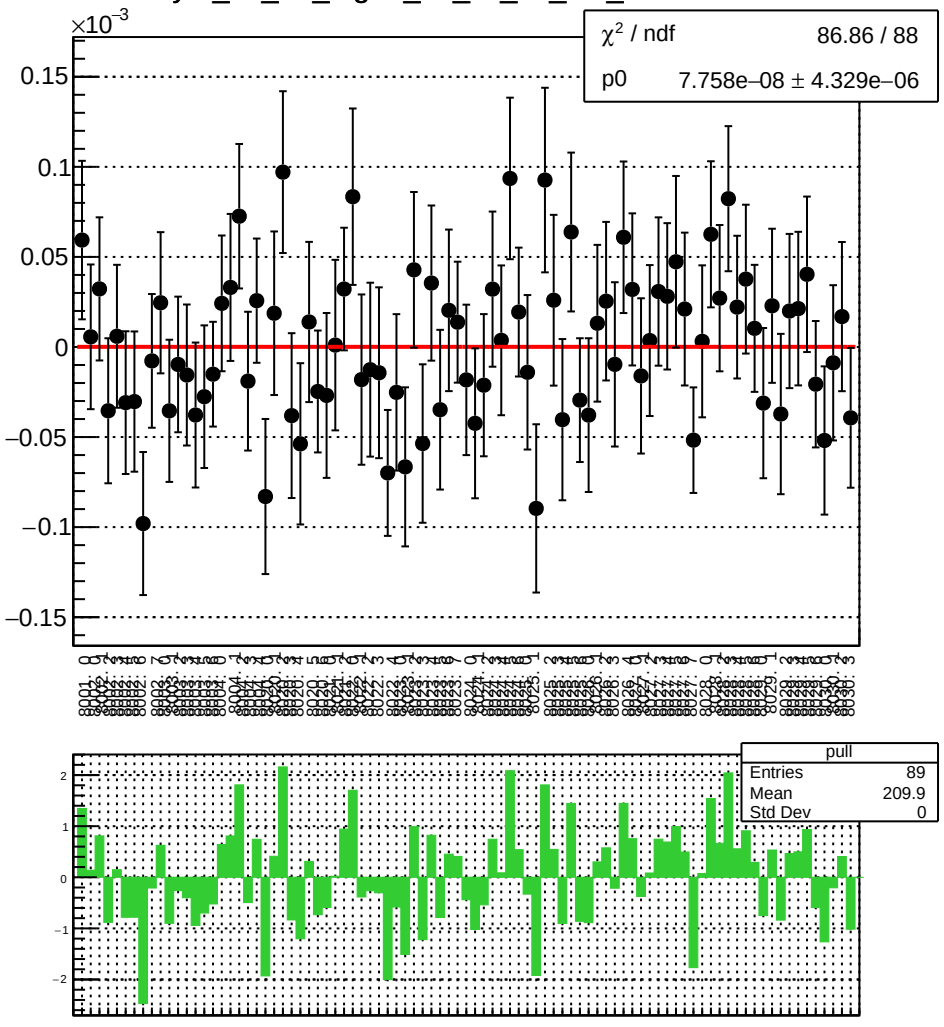

pull1D
Entries 89
Mean −0.04865
Std Dev 1.045

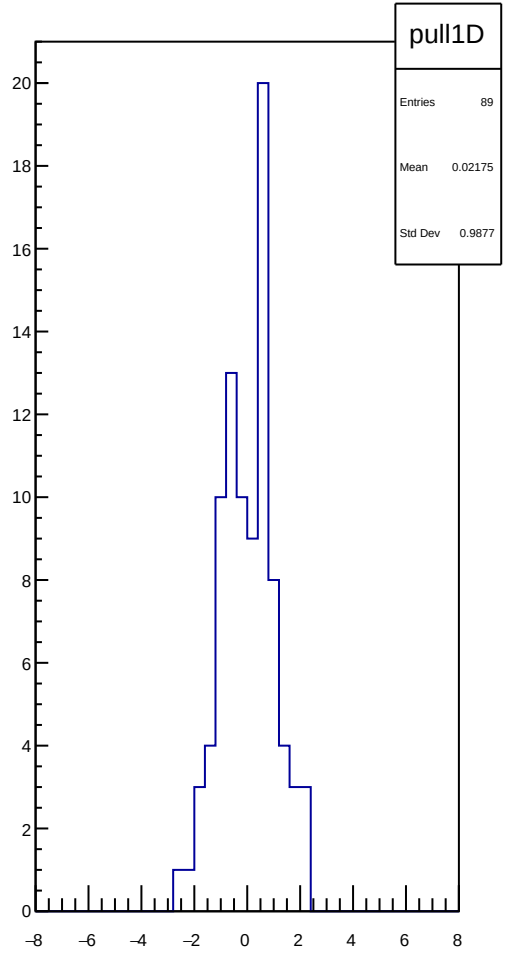

asym_us_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.952e+05 / 88
p0 22.69 ± 0.01829
55
50
45
40
35
30
25
20
15
10

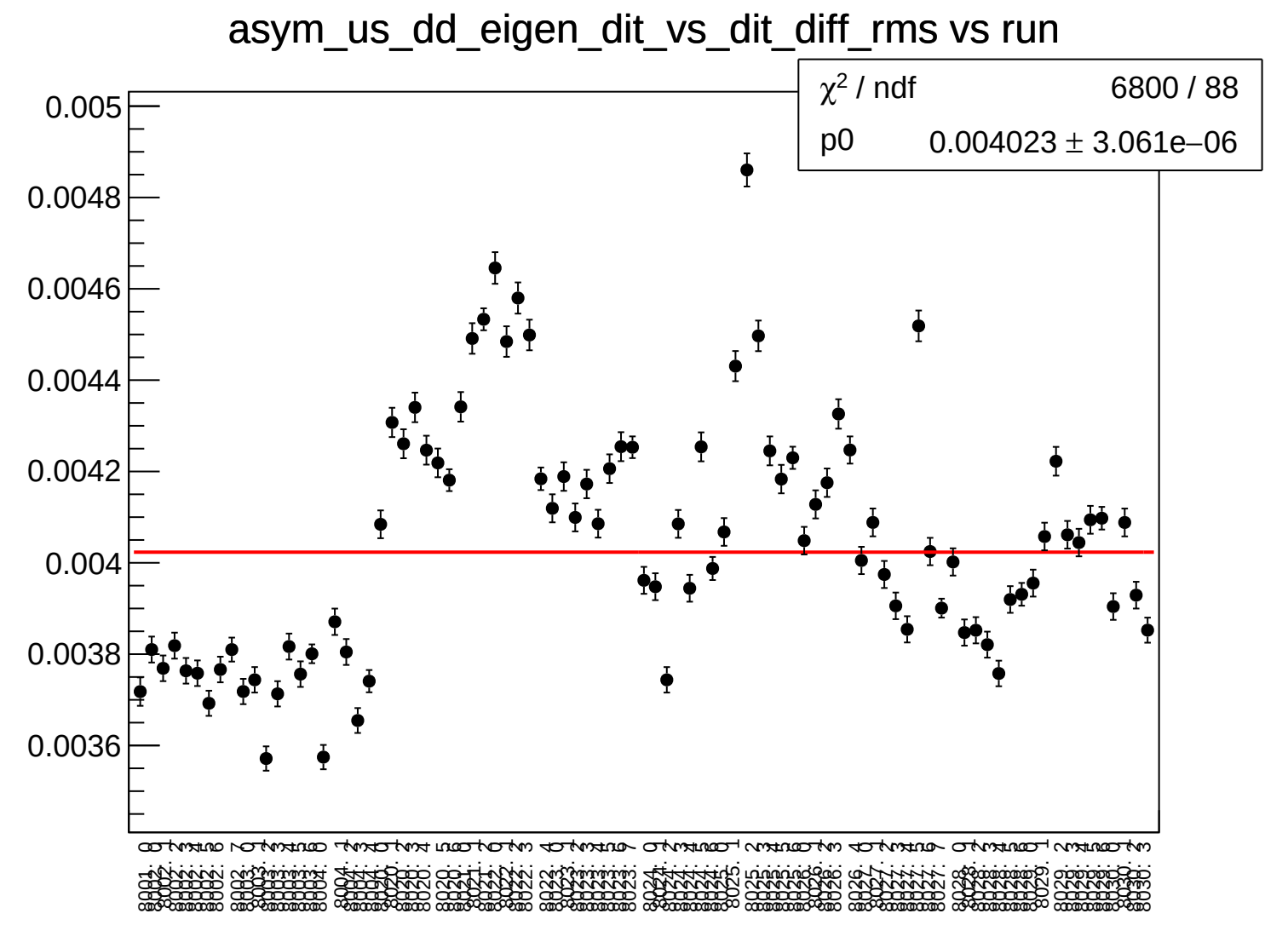

asym_us_dd_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 90.34 / 88
p0 −0.07539 ± 0.04235
pull
Entries 89
Mean 905.6
Std Dev 0

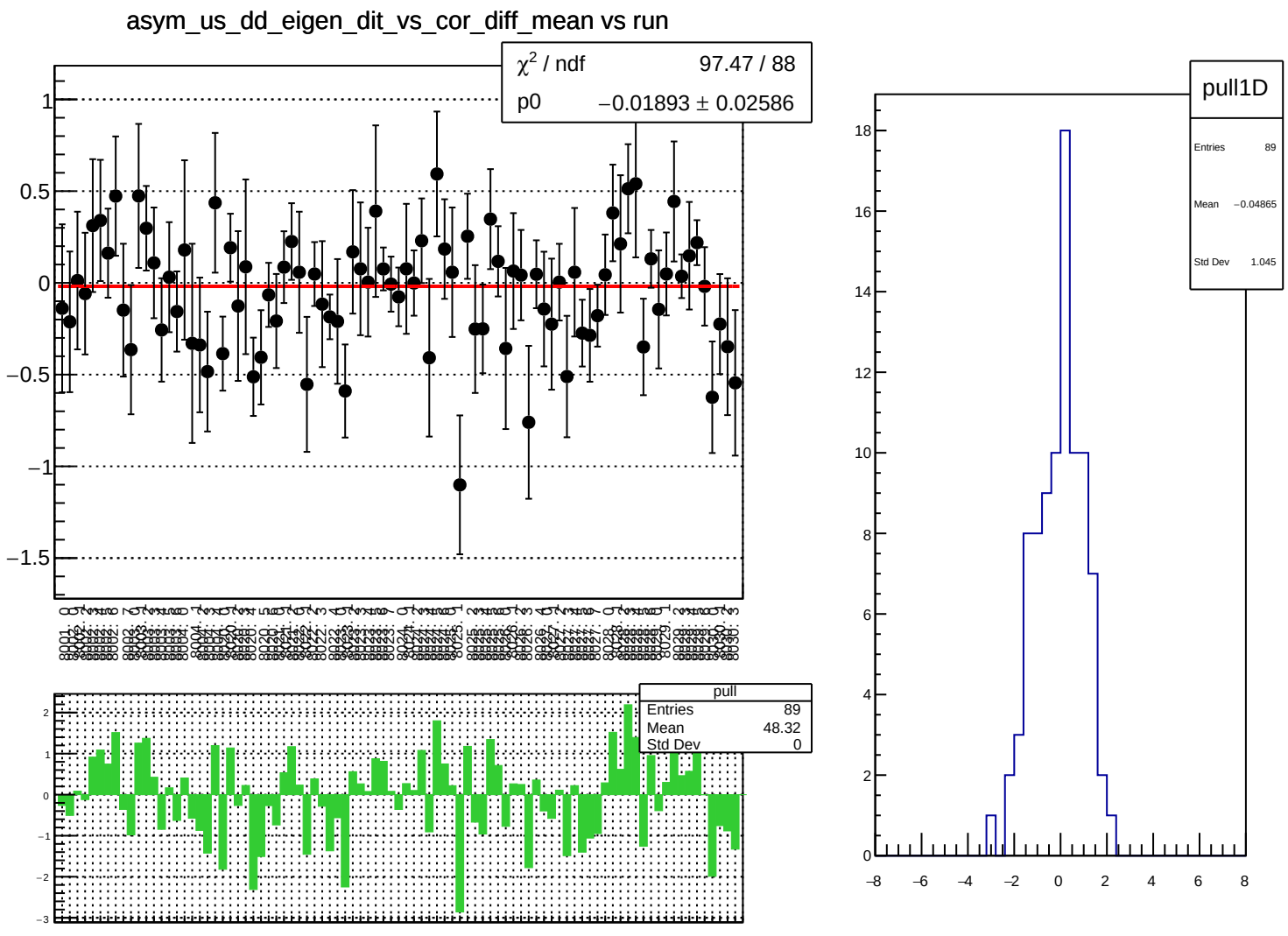

pull1D
Entries 89
Mean −0.006853
Std Dev 1.007

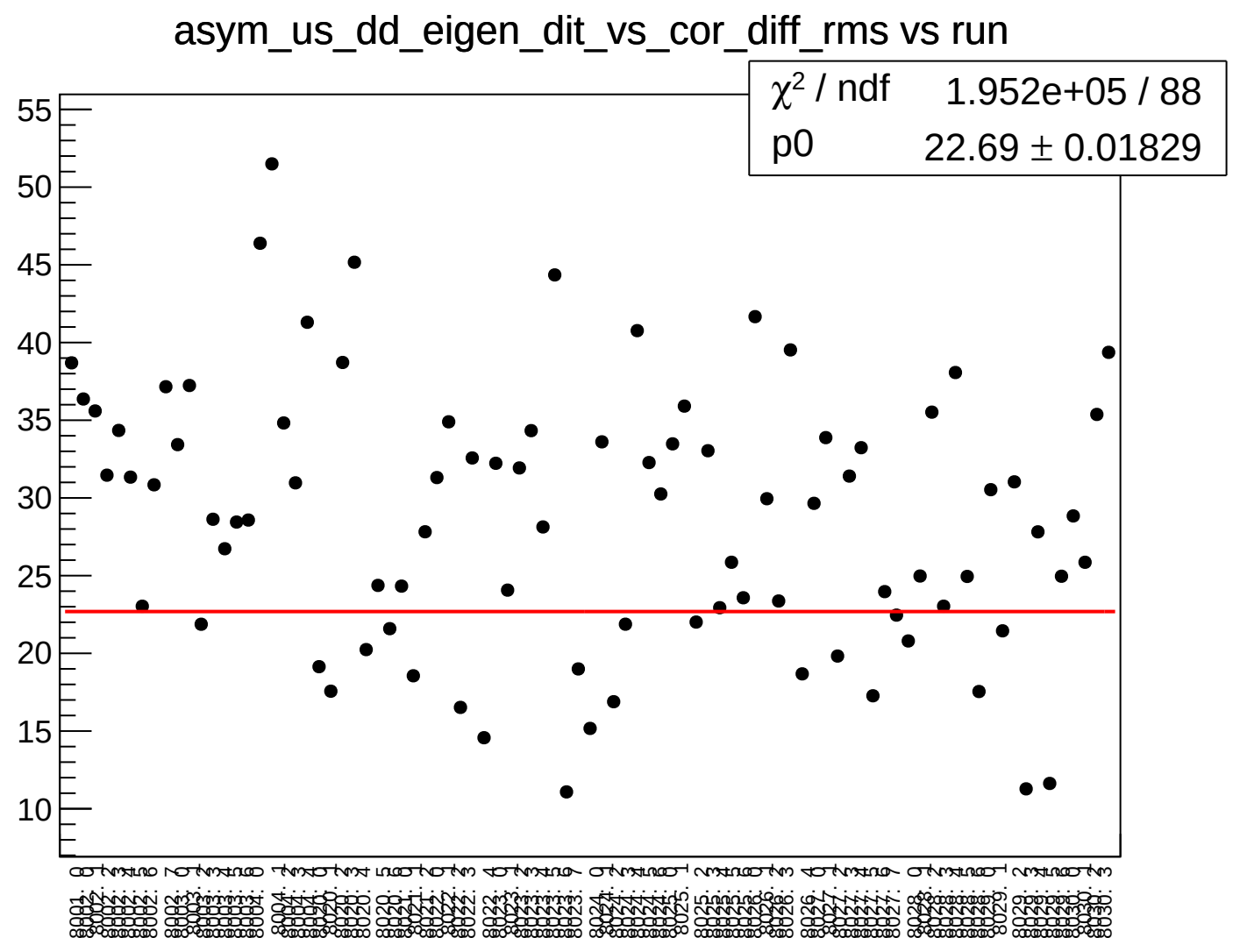

asym_us_dd_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 5.626e+04 / 88
p0 38.8 ± 0.02995
60
55
50
45
40
35
30
25

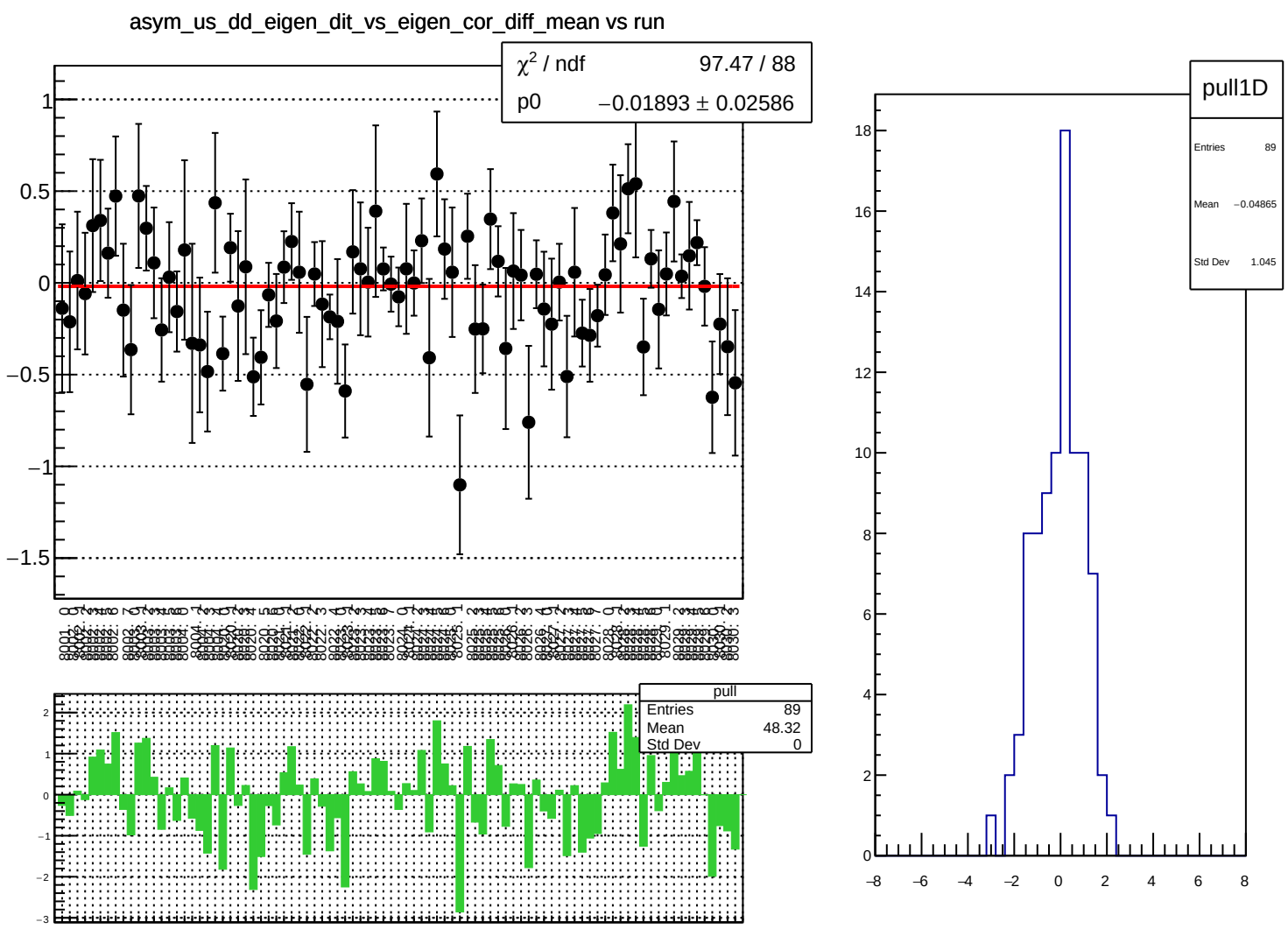

asym_us_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.86 / 88
p0 7.758e−08 ± 4.329e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 89
Mean 209.9
Std Dev 0
2
1
0
−1
−2

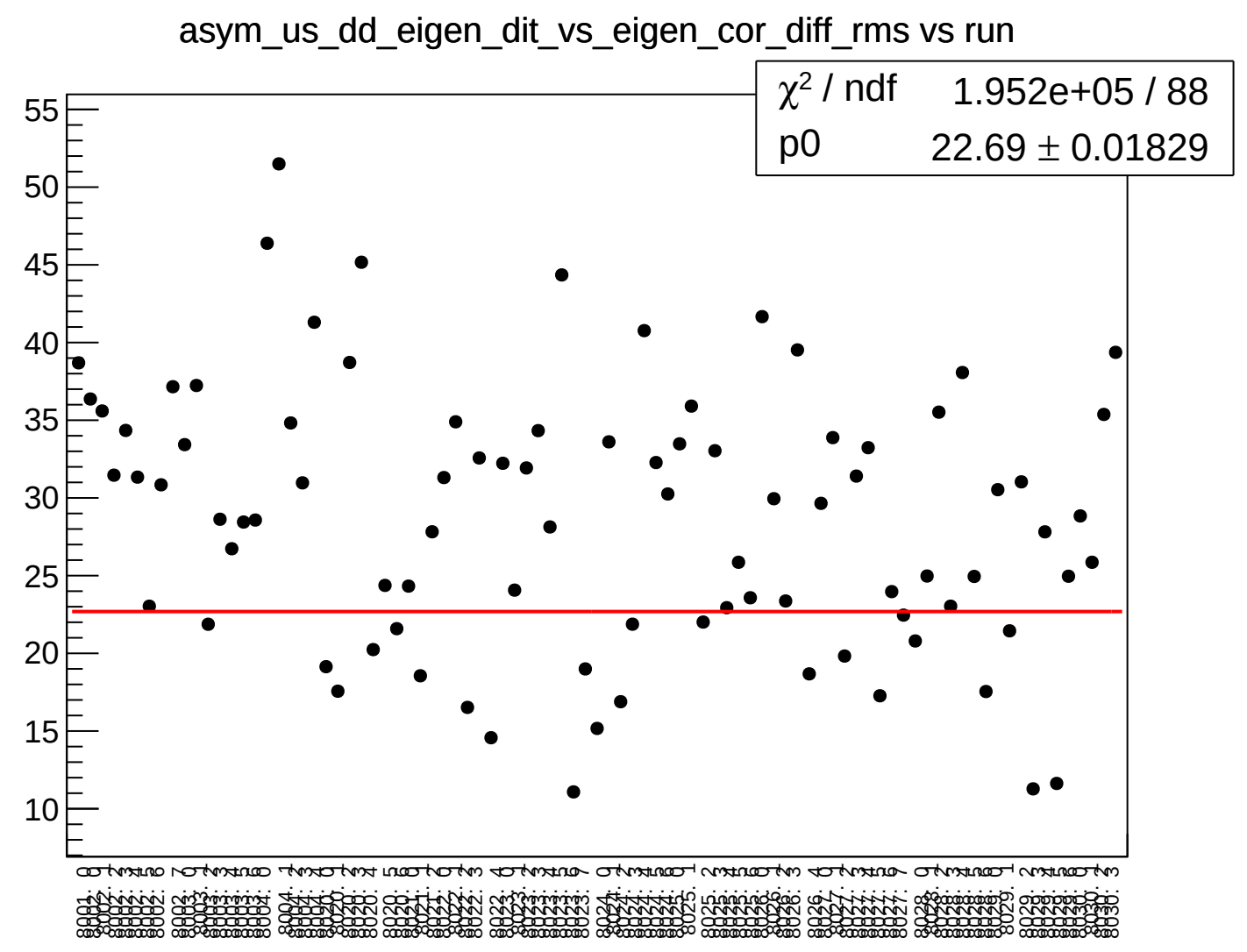

pull1D
Entries 89
Mean 0.02175
Std Dev 0.9877
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

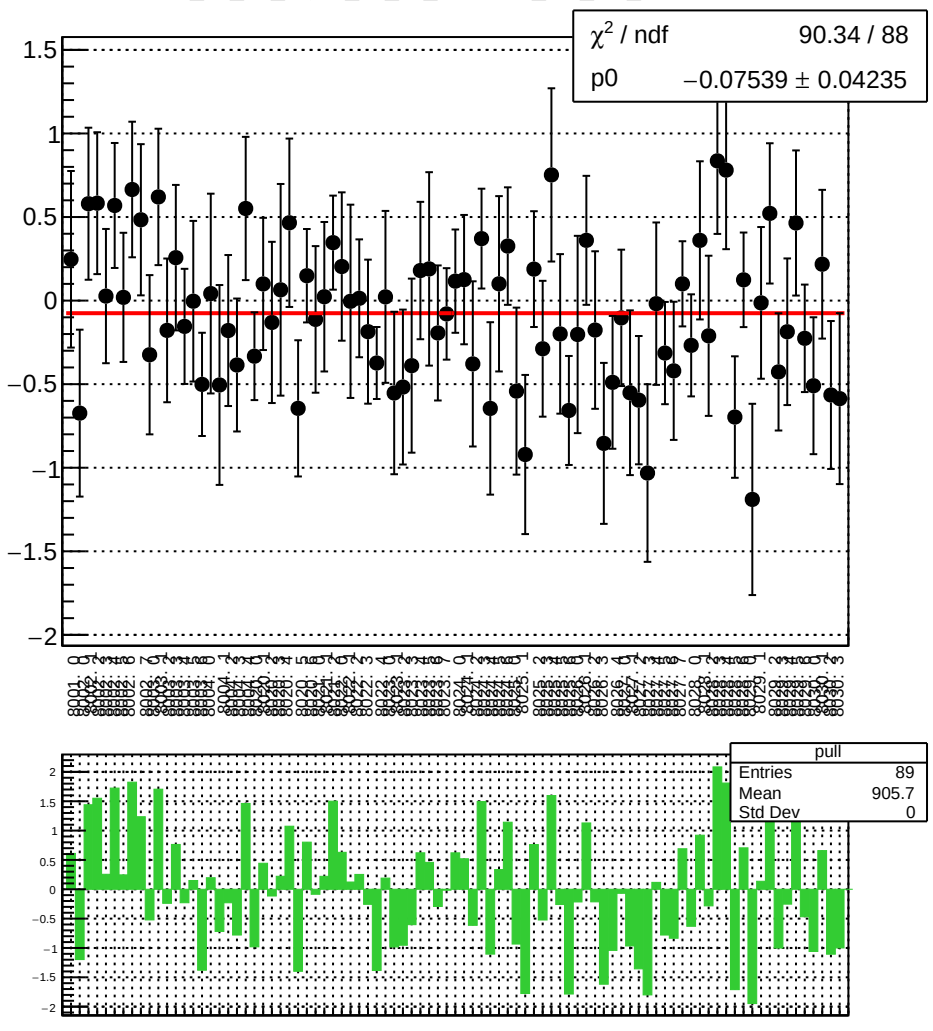

asym_us_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6800 / 88
p0 0.004023 ± 3.061e−06
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036

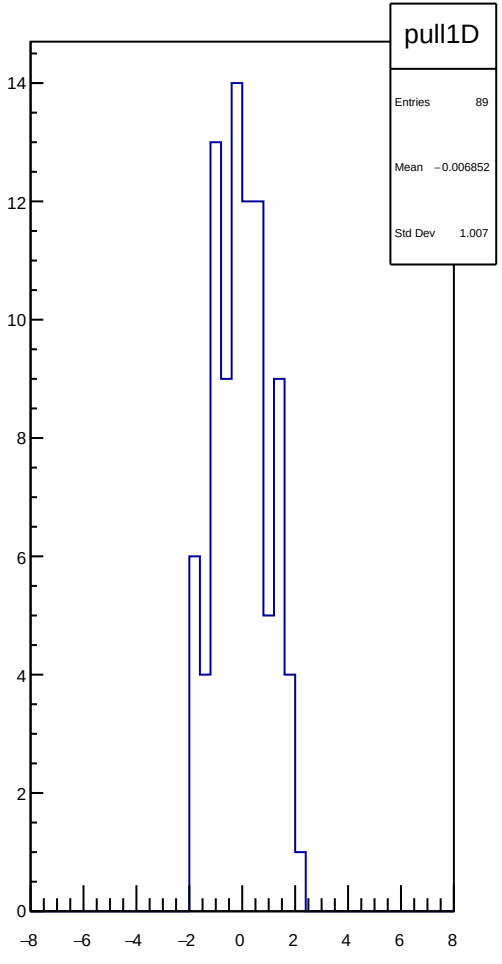

asym_us_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.47 / 88
p0 −0.01893 ± 0.02586
pull
Entries 89
Mean 48.32
Std Dev 0
pull1D
Entries 89
Mean −0.04865
Std Dev 1.045

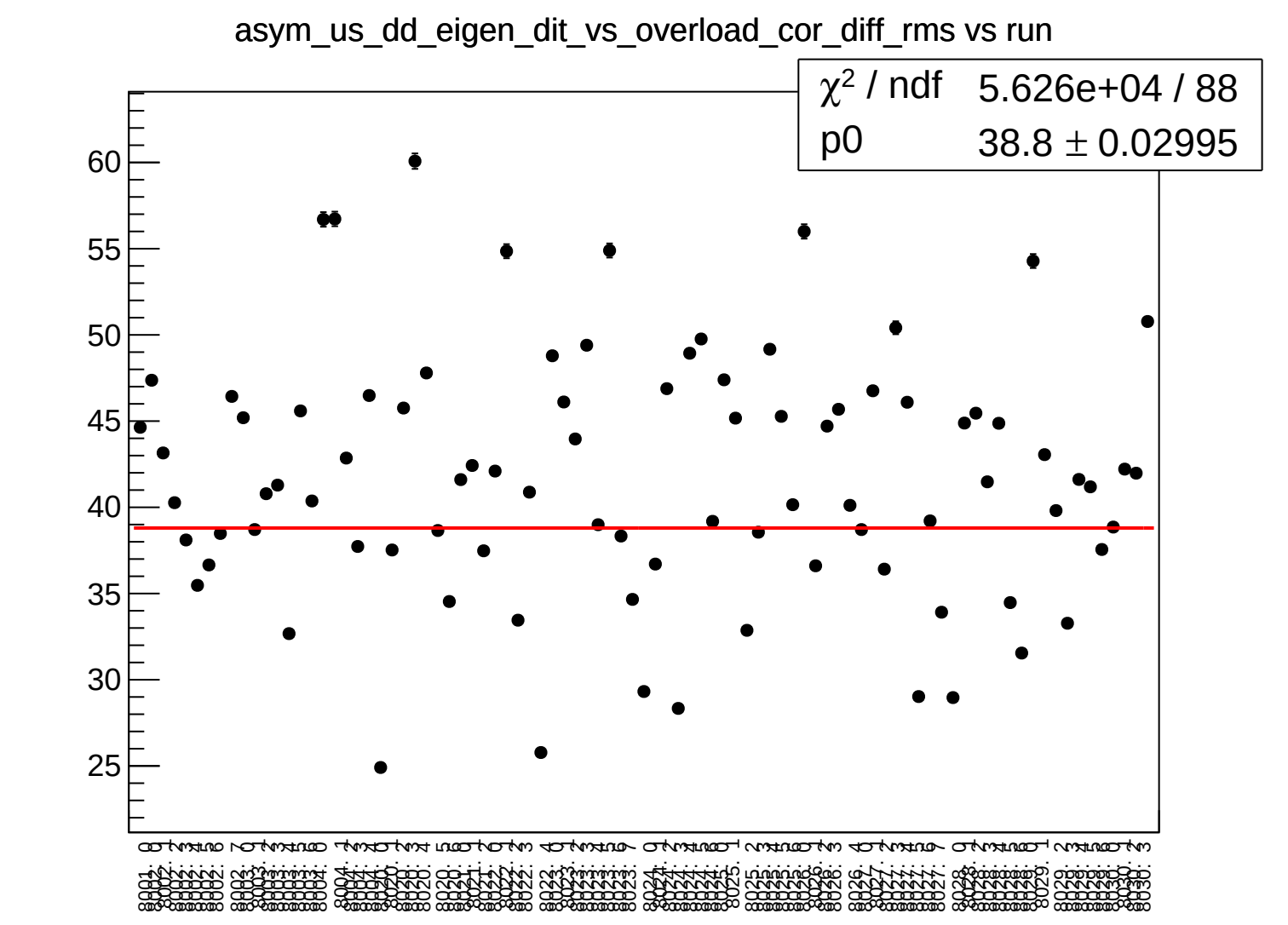

asym_us_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.952e+05 / 88
p0 22.69 ± 0.01829
55
50
45
40
35
30
25
20
15
10

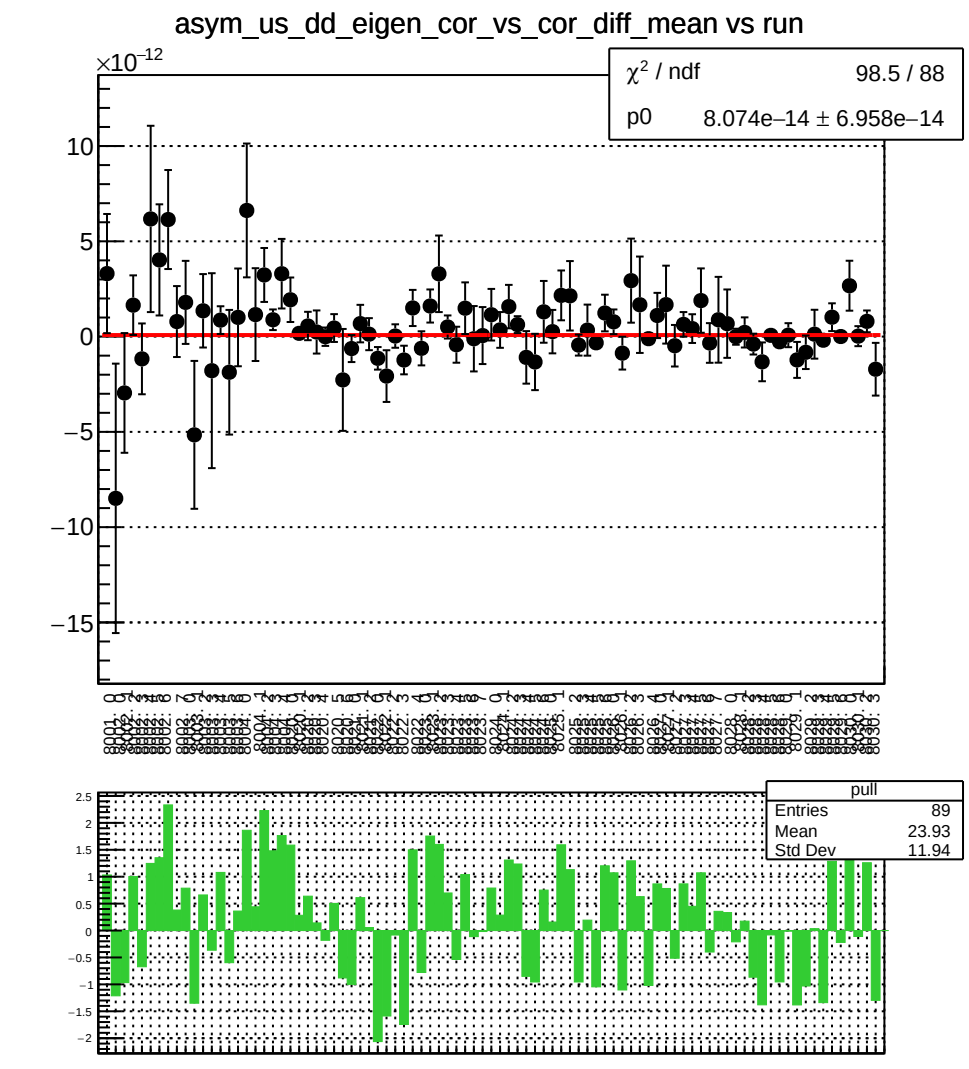

asym_us_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.47 / 88
p0 −0.01893 ± 0.02586
pull
Entries 89
Mean 48.32
Std Dev 0
pull1D
Entries 89
Mean −0.04865
Std Dev 1.045

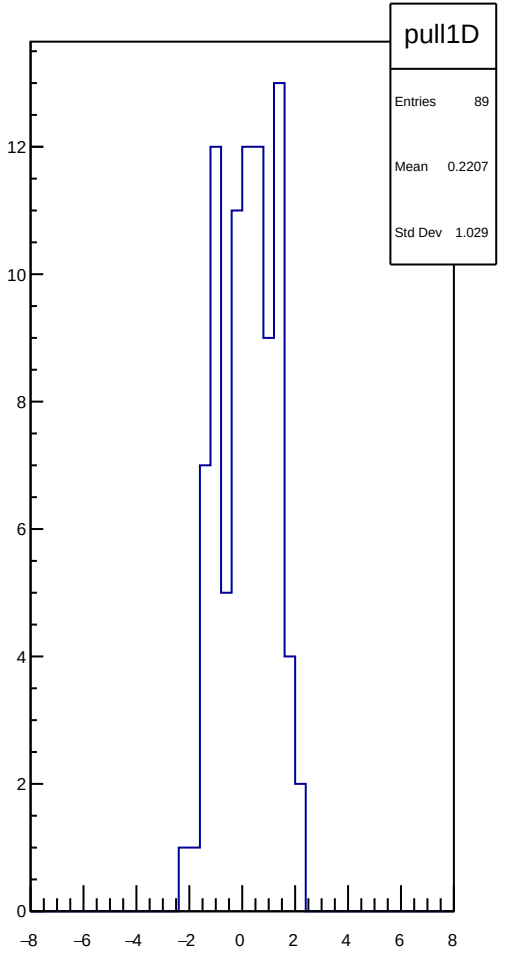

asym_us_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.952e+05 / 88
p0 22.69 ± 0.01829
55
50
45
40
35
30
25
20
15
10

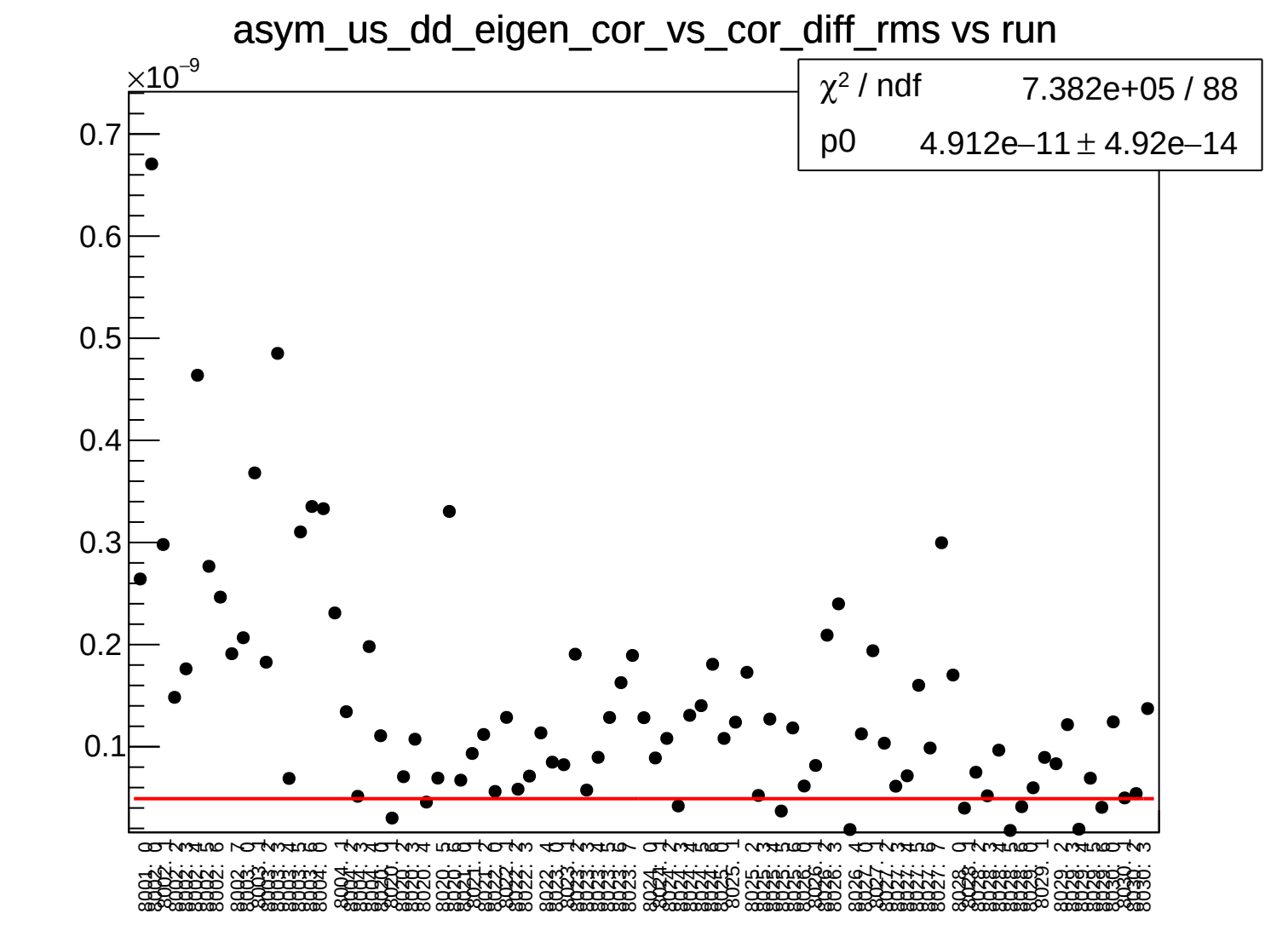

asym_us_dd_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 90.34 / 88
p0 −0.07539 ± 0.04235
pull
Entries 89
Mean 905.7
Std Dev 0

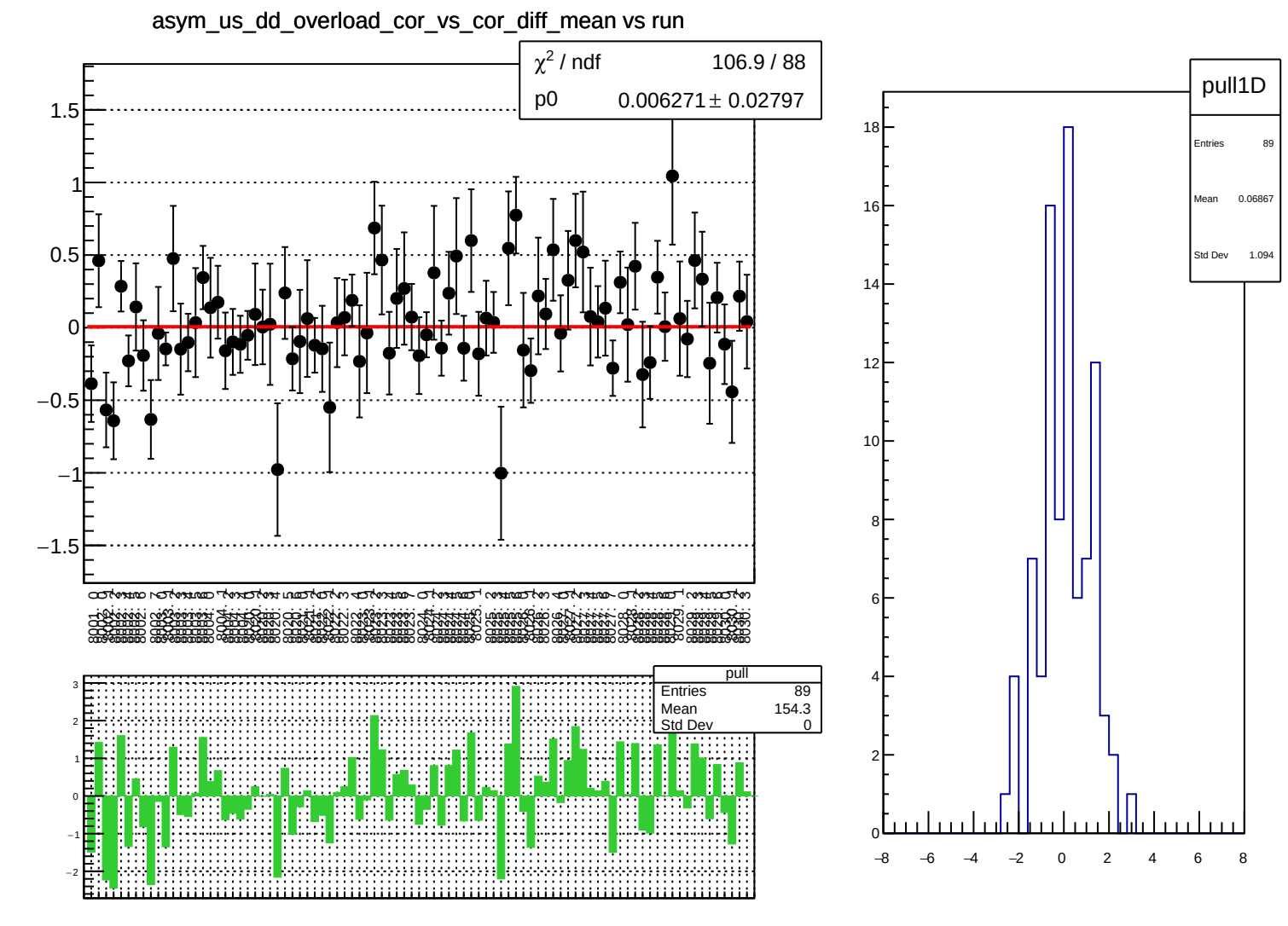

pull1D
Entries 89
Mean −0.006852
Std Dev 1.007

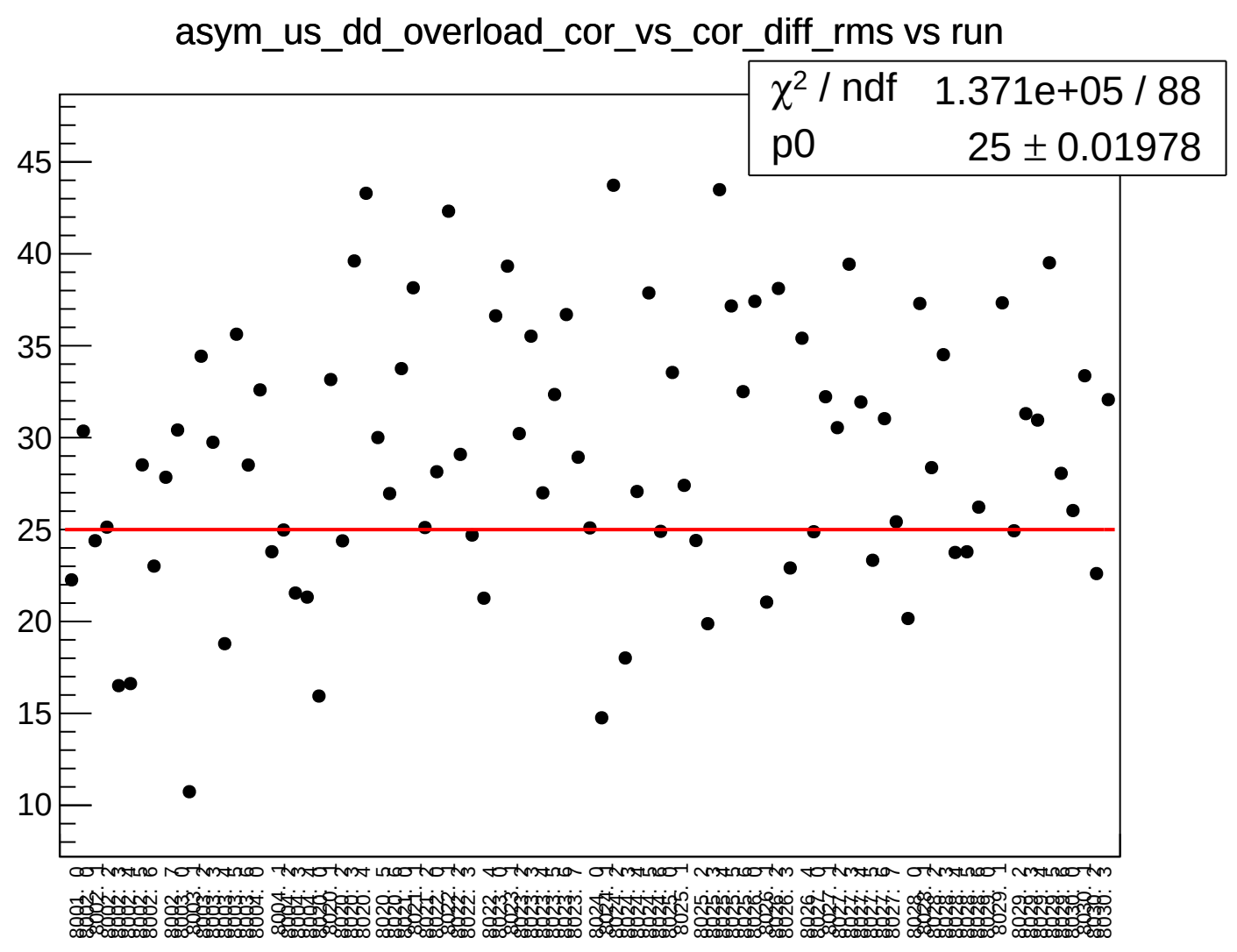

asym_us_dd_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 5.626e+04 / 88
p0 38.8 ± 0.02995
60
55
50
45
40
35
30
25

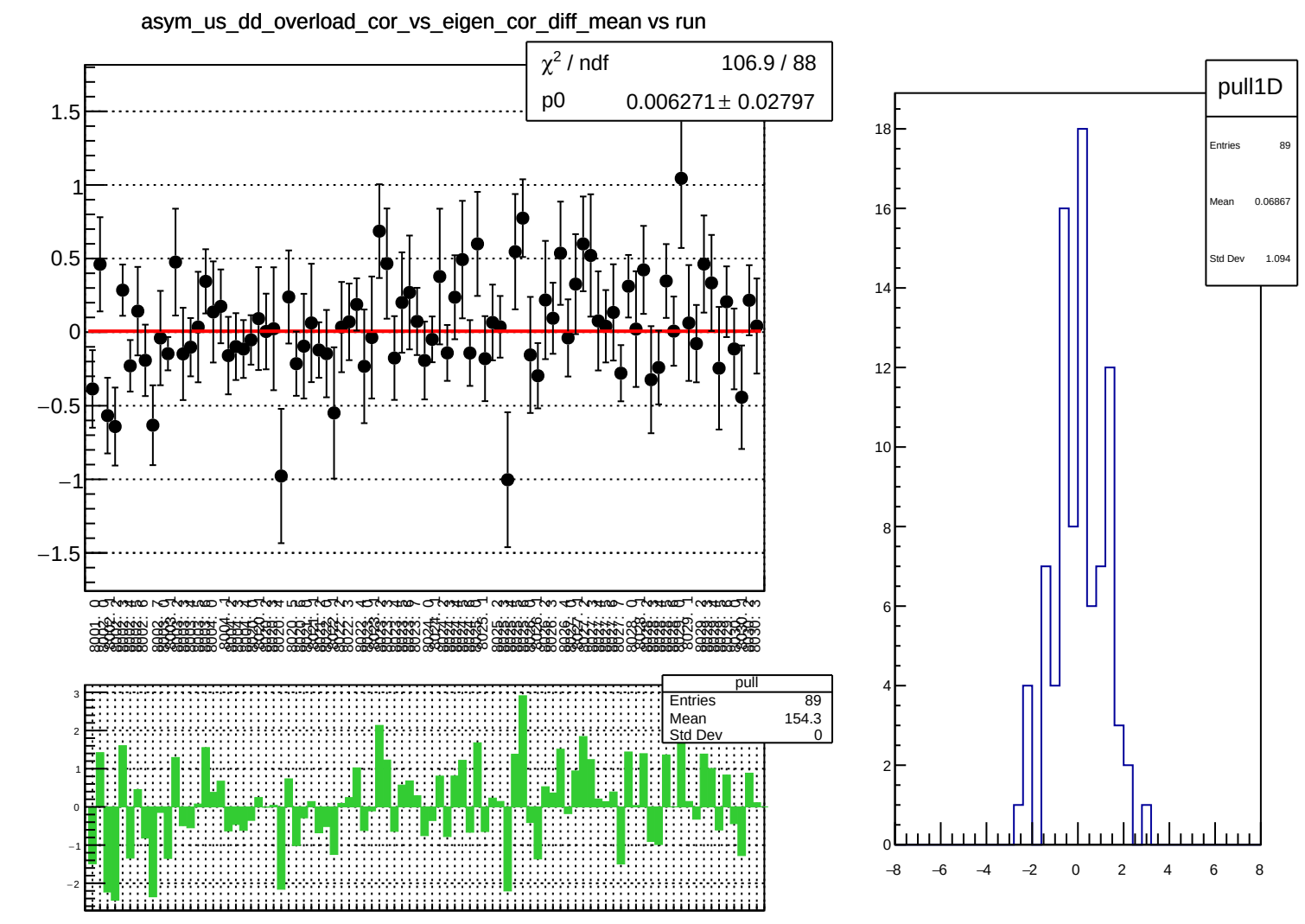

asym_us_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.5 / 88
p0 8.074e−14 ± 6.958e−14
10
5
0
−5
−10
−15
pull
Entries 89
Mean 23.93
Std Dev 11.94
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

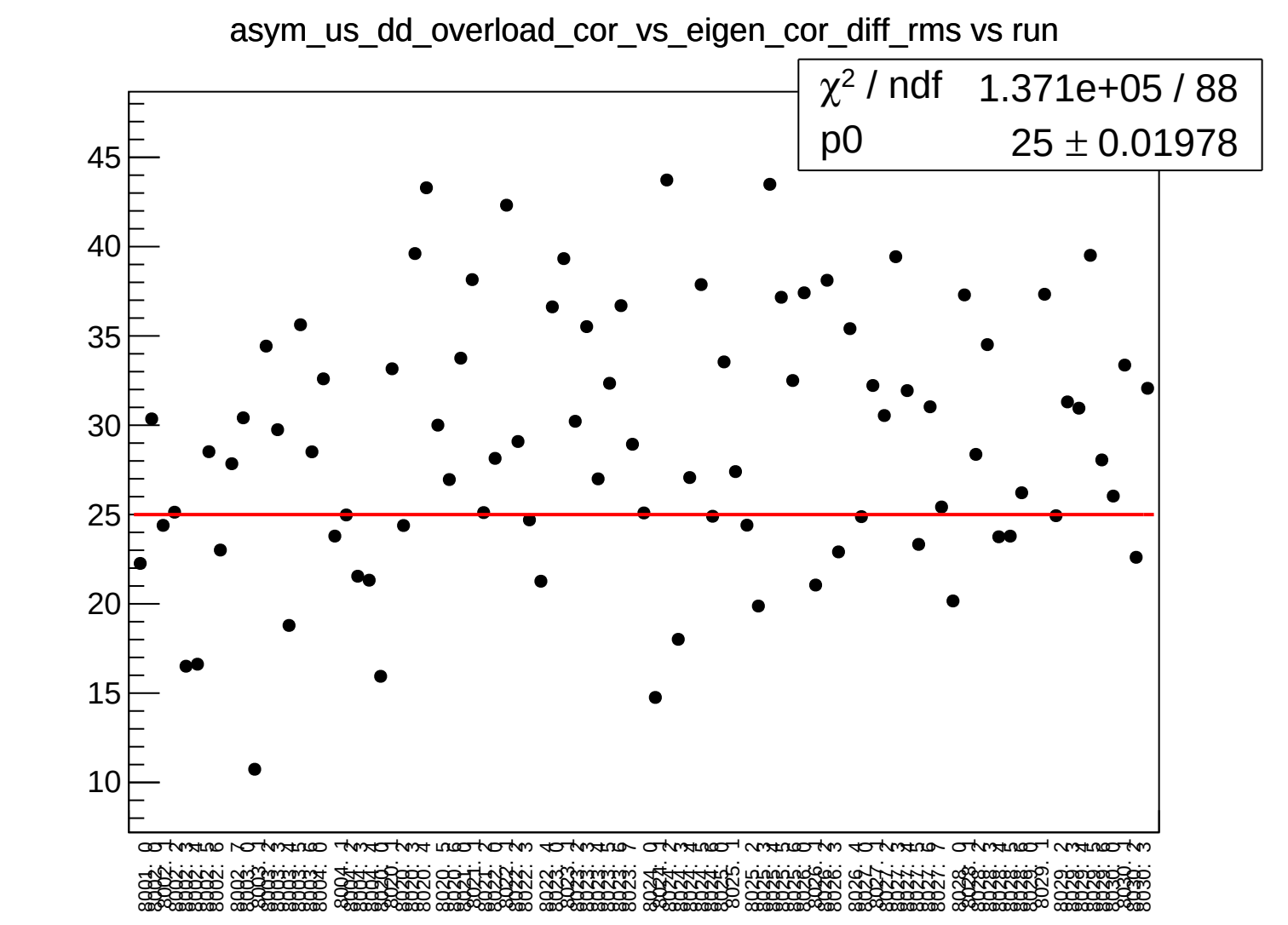

pull1D
Entries 89
Mean 0.2207
Std Dev 1.029
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

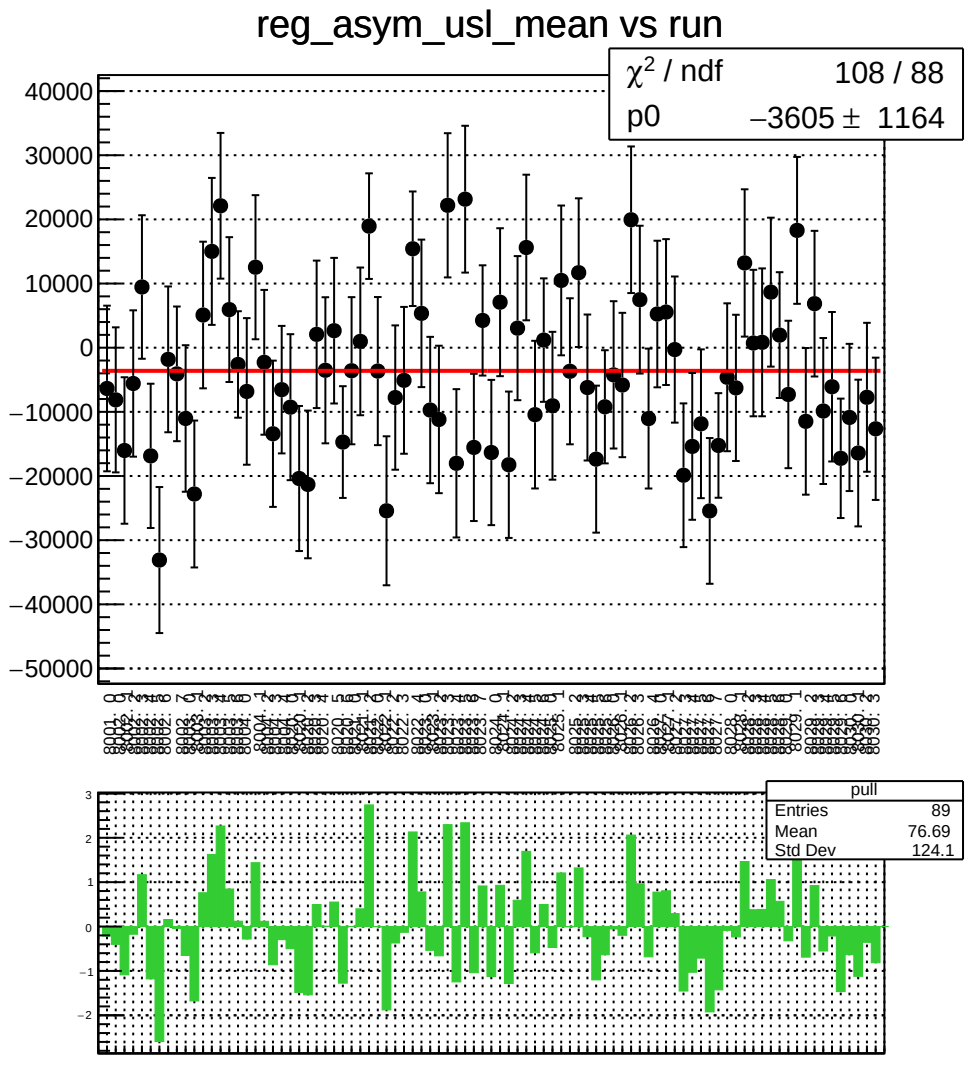

asym_us_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.382e+05 / 88
p0 4.912e−11 ± 4.92e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

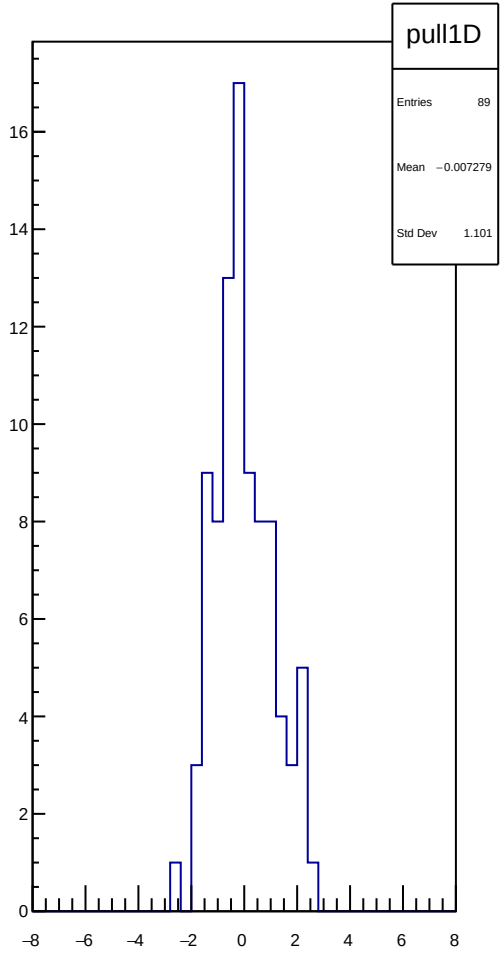

asym_us_dd_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 106.9 / 88
p0 0.006271 ± 0.02797
pull
Entries 89
Mean 154.3
Std Dev 0
pull1D
Entries 89
Mean 0.06867
Std Dev 1.094

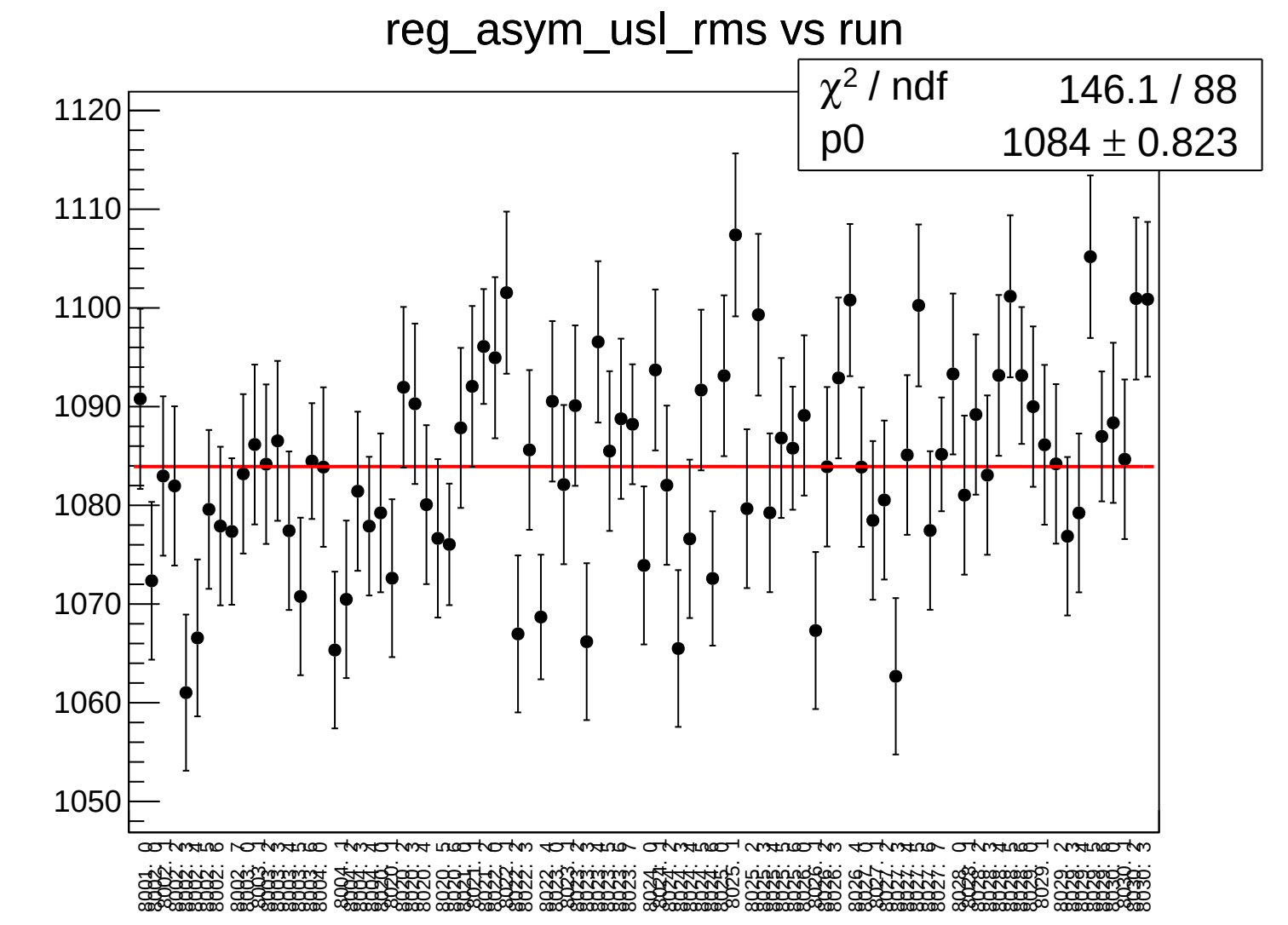

asym_us_dd_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.371e+05 / 88
p0 25 ± 0.01978
45
40
35
30
25
20
15
10

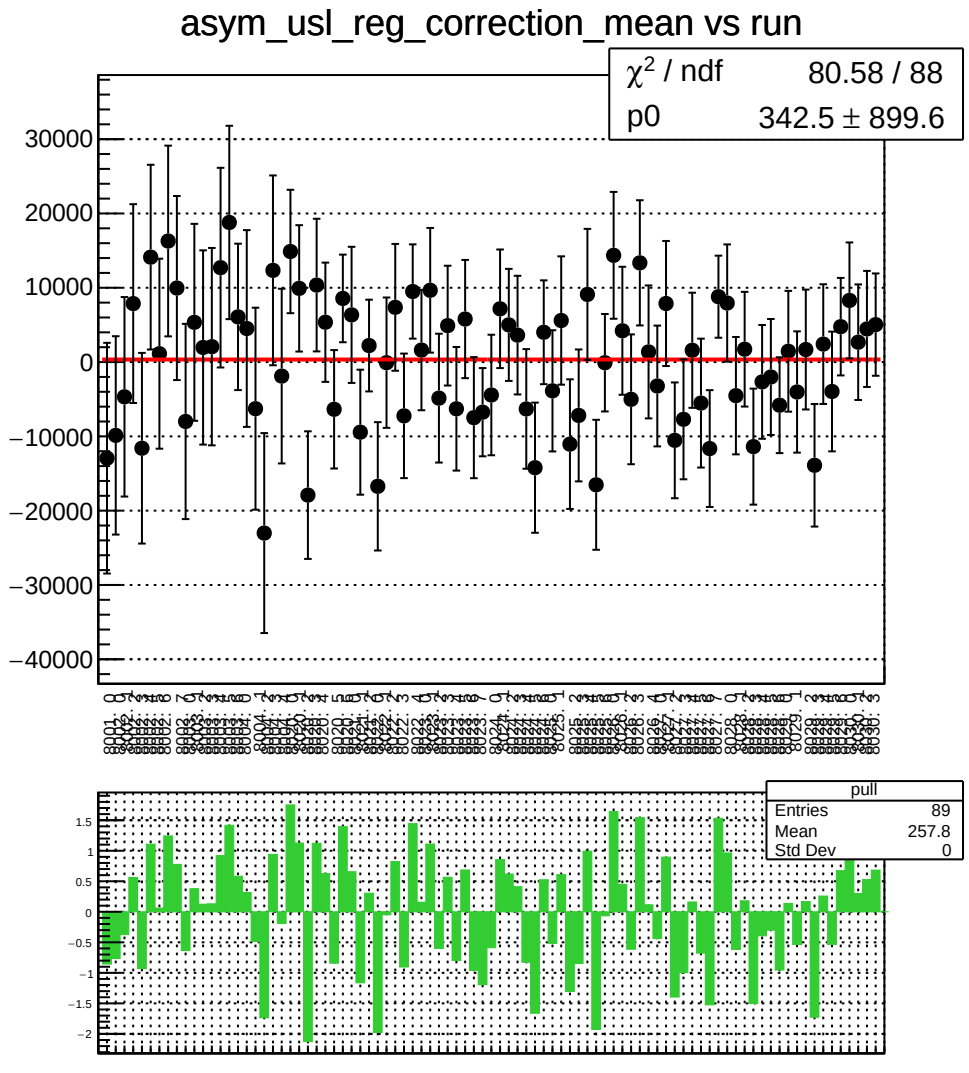

asym_us_dd_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.9 / 88
p0 0.006271 ± 0.02797
pull
Entries 89
Mean 154.3
Std Dev 0
pull1D
Entries 89
Mean 0.06867
Std Dev 1.094

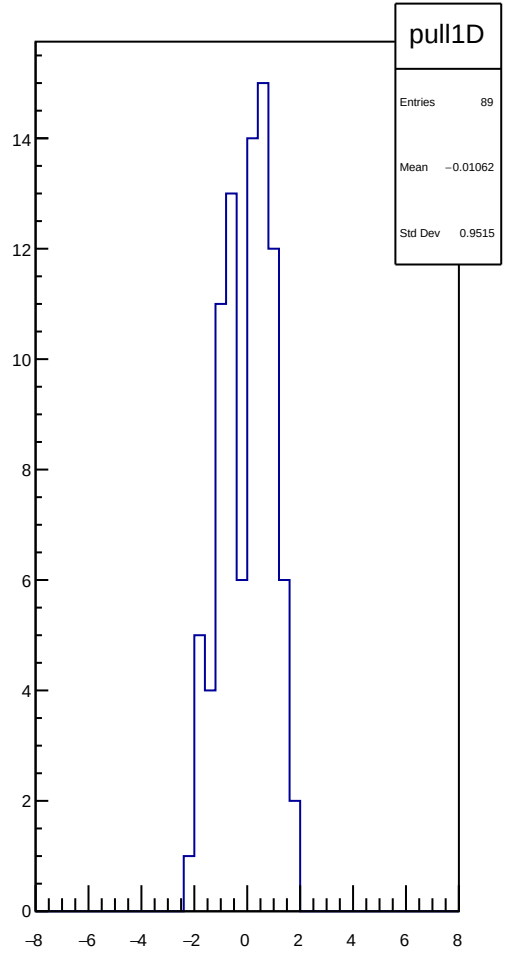

asym_us_dd_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.371e+05 / 88
p0 25 ± 0.01978
45
40
35
30
25
20
15
10

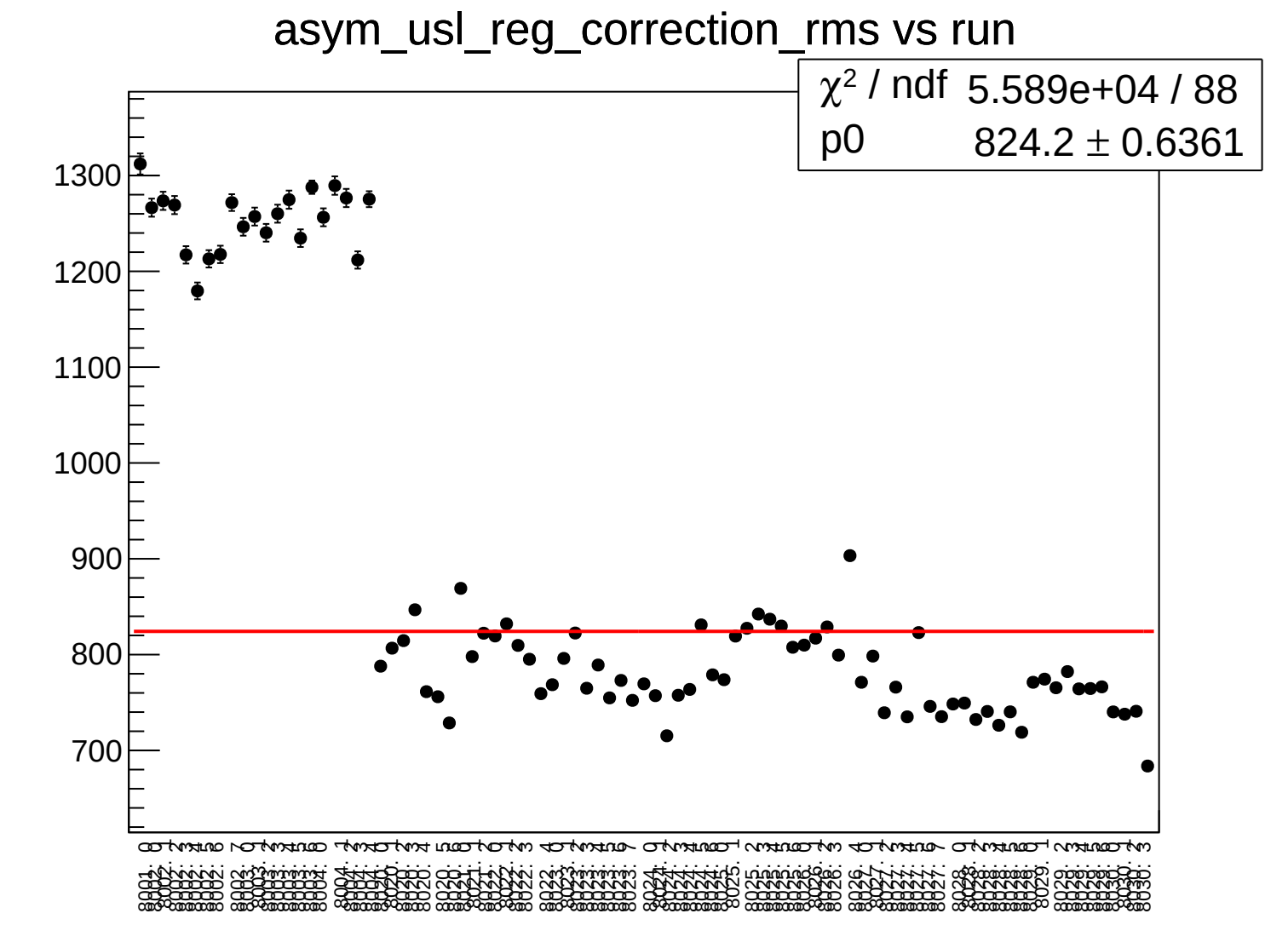

reg_asym_usl_mean vs run
χ² / ndf 108 / 88
p0 −3605 ± 1164
pull
Entries 89
Mean 76.69
Std Dev 124.1

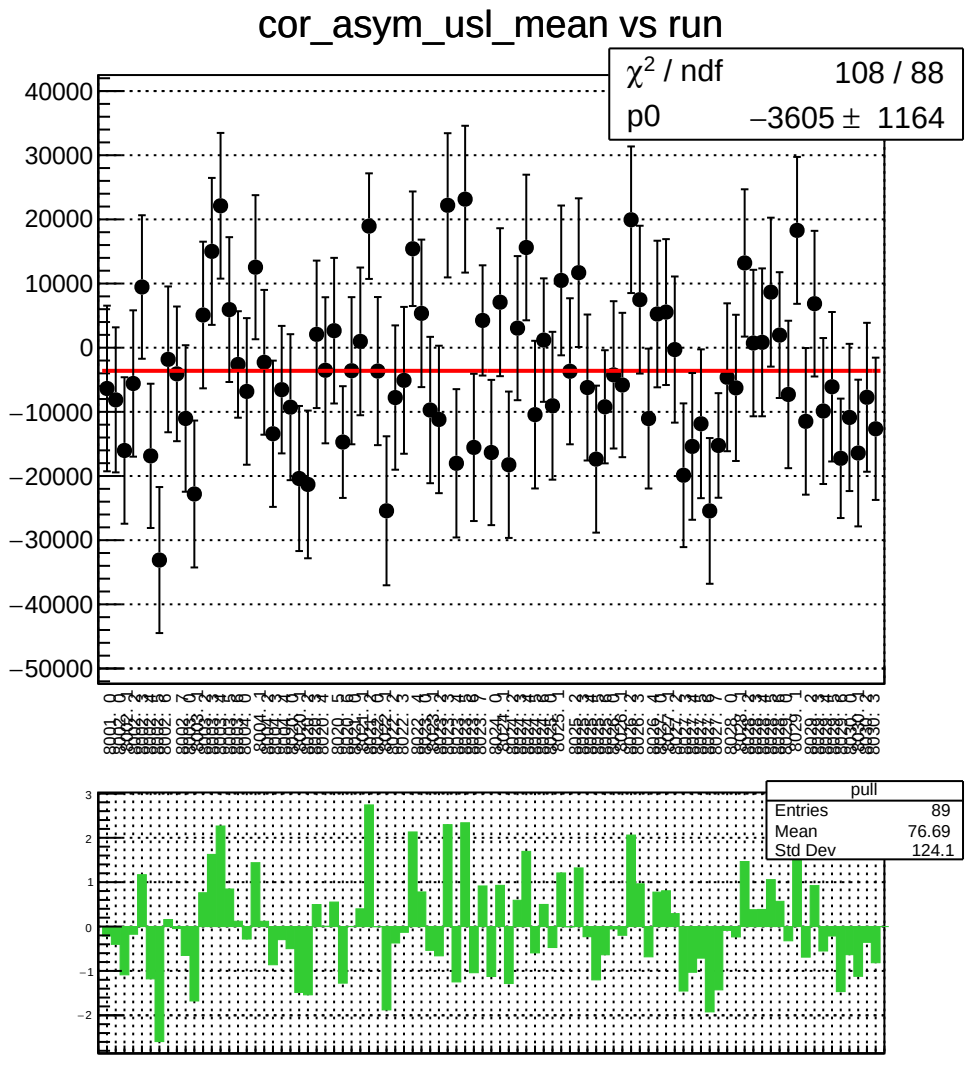

pull1D
Entries 89
Mean −0.007279
Std Dev 1.101

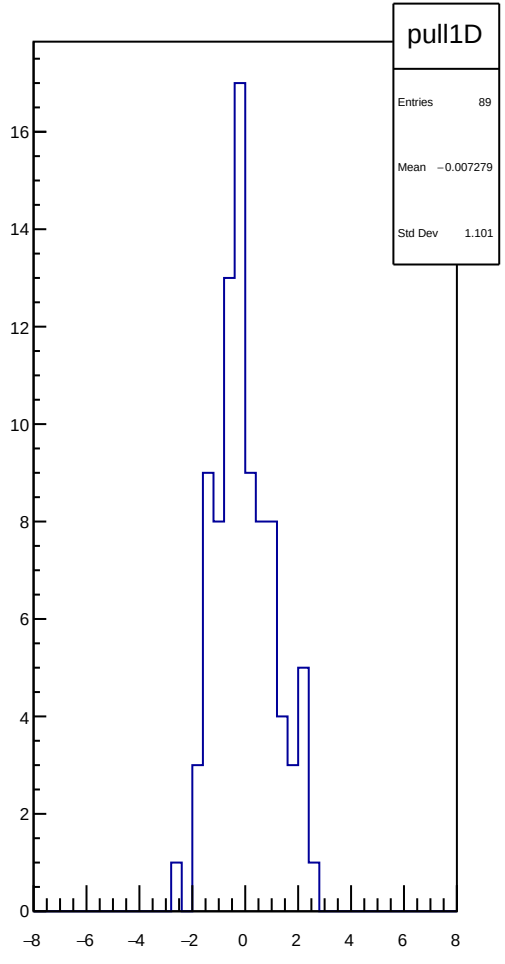

reg_asym_usl_rms vs run
χ^2 / ndf 146.1 / 88
p0 1084 ± 0.823
1120
1110
1100
1090
1080
1070
1060
1050

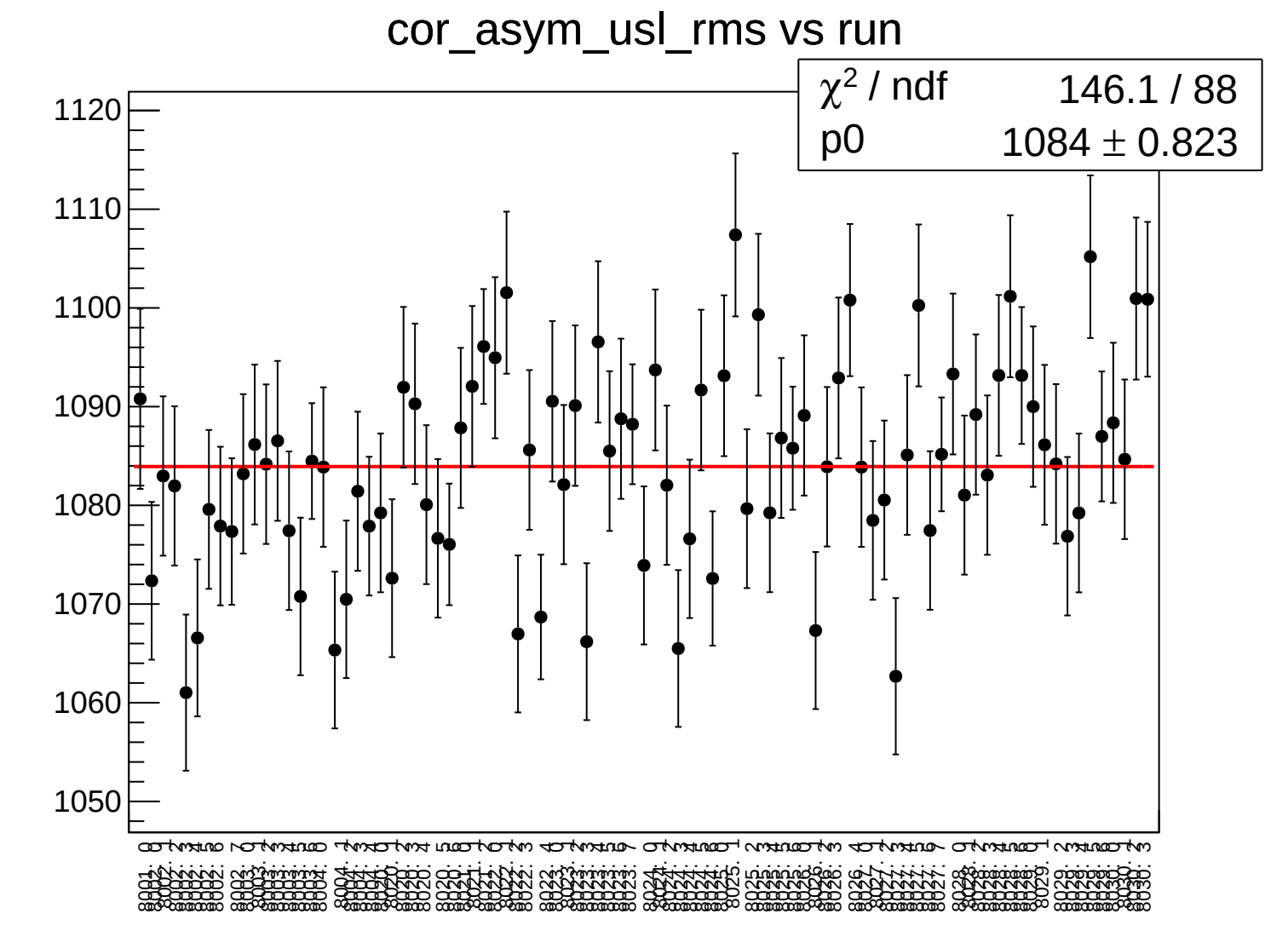

asym_usl_reg_correction_mean vs run
χ² / ndf 80.58 / 88
p0 342.5 ± 899.6
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean 257.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

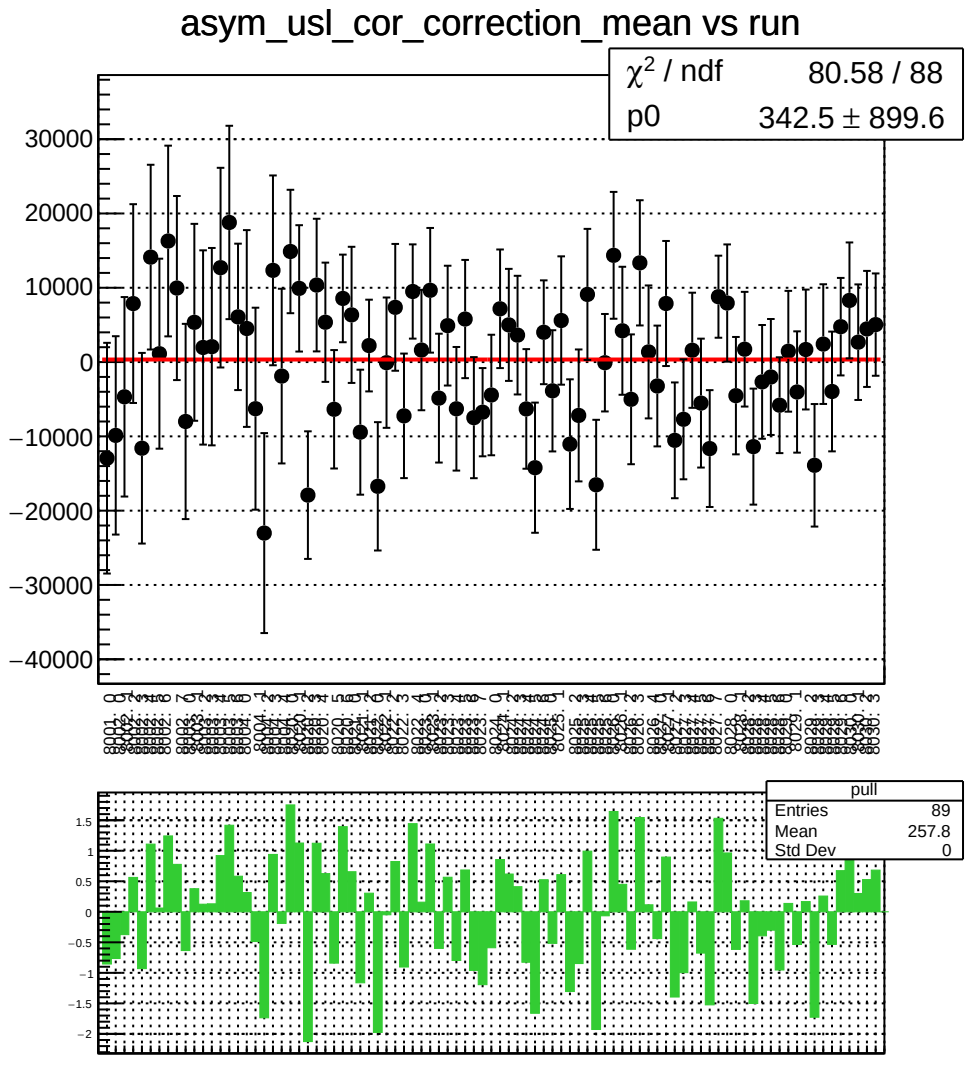

pull1D
Entries 89
Mean −0.01062
Std Dev 0.9515
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

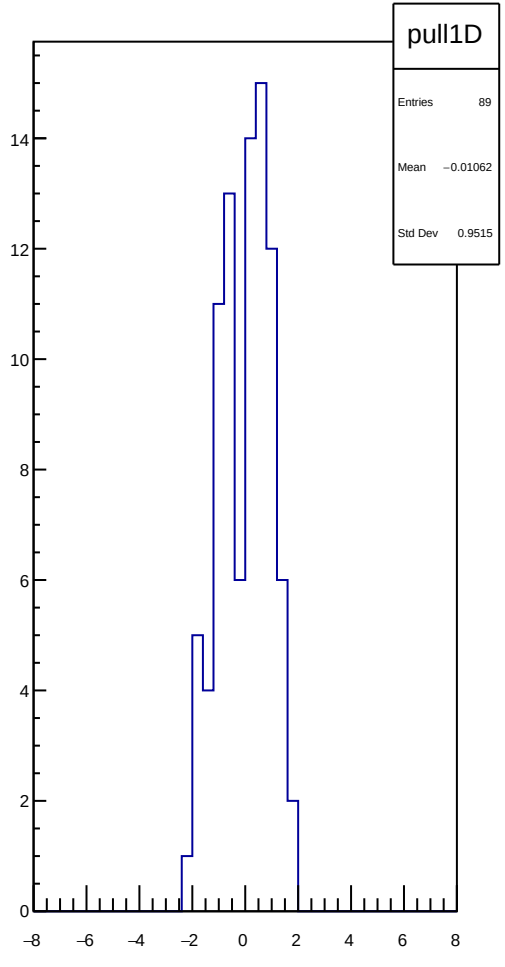

asym_usl_reg_correction_rms vs run
χ² / ndf 5.589e+04 / 88
p0 824.2 ± 0.6361
1300
1200
1100
1000
900
800
700

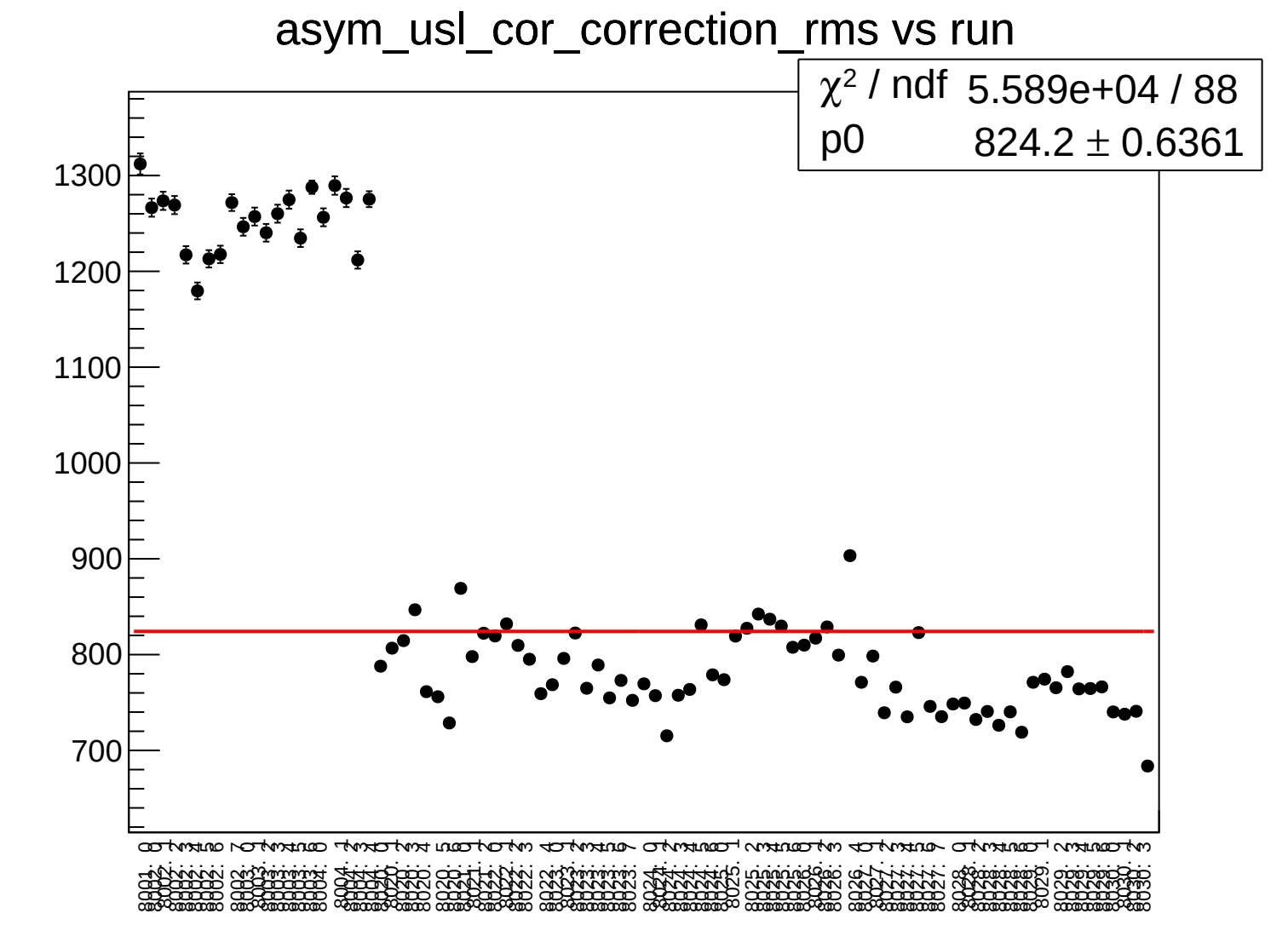

cor_asym_usl_mean vs run
χ² / ndf 108 / 88
p0 −3605 ± 1164
pull
Entries 89
Mean 76.69
Std Dev 124.1

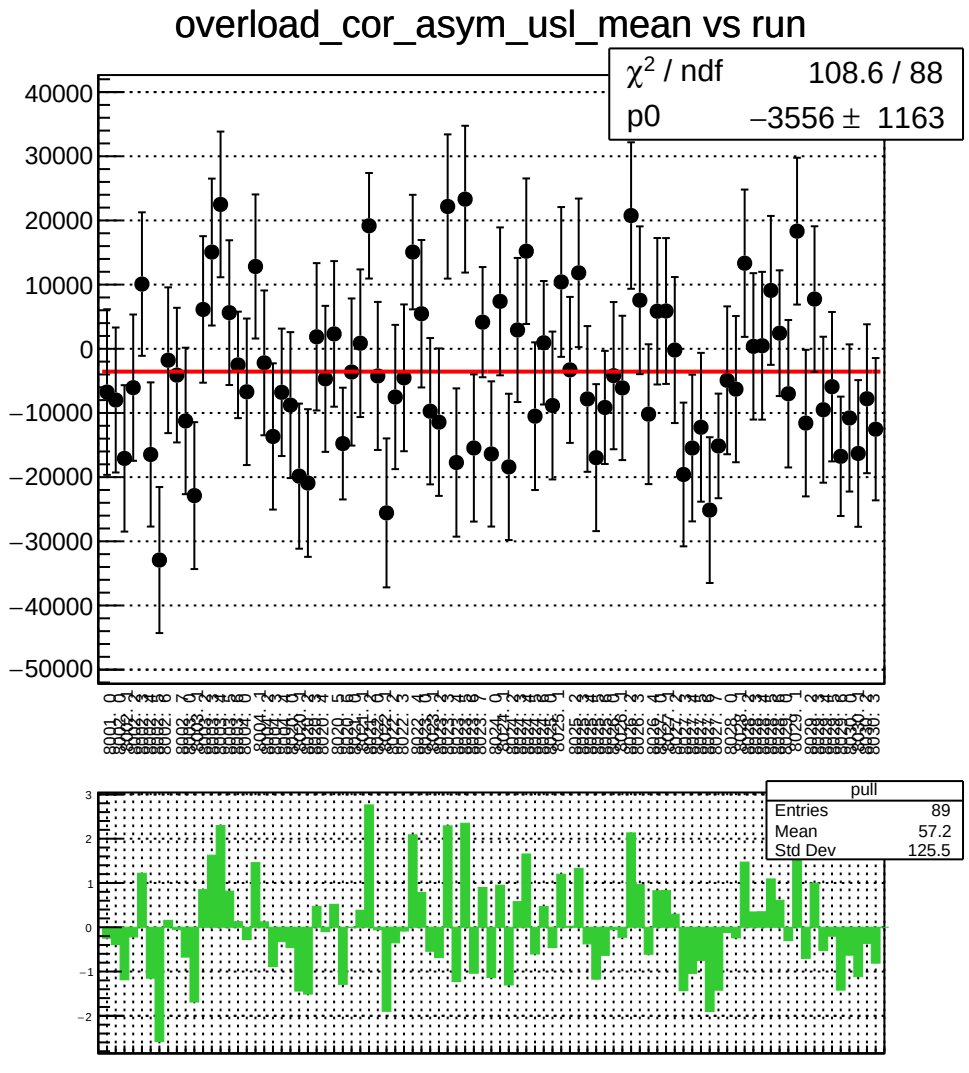

pull1D
Entries 89
Mean −0.007279
Std Dev 1.101

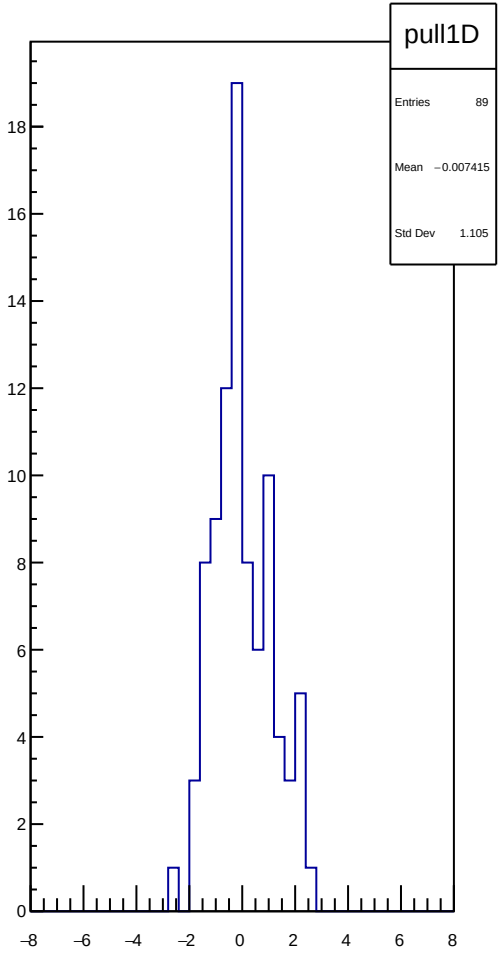

cor_asym_usl_rms vs run
χ^2 / ndf 146.1 / 88
p0 1084 ± 0.823
1120
1110
1100
1090
1080
1070
1060
1050

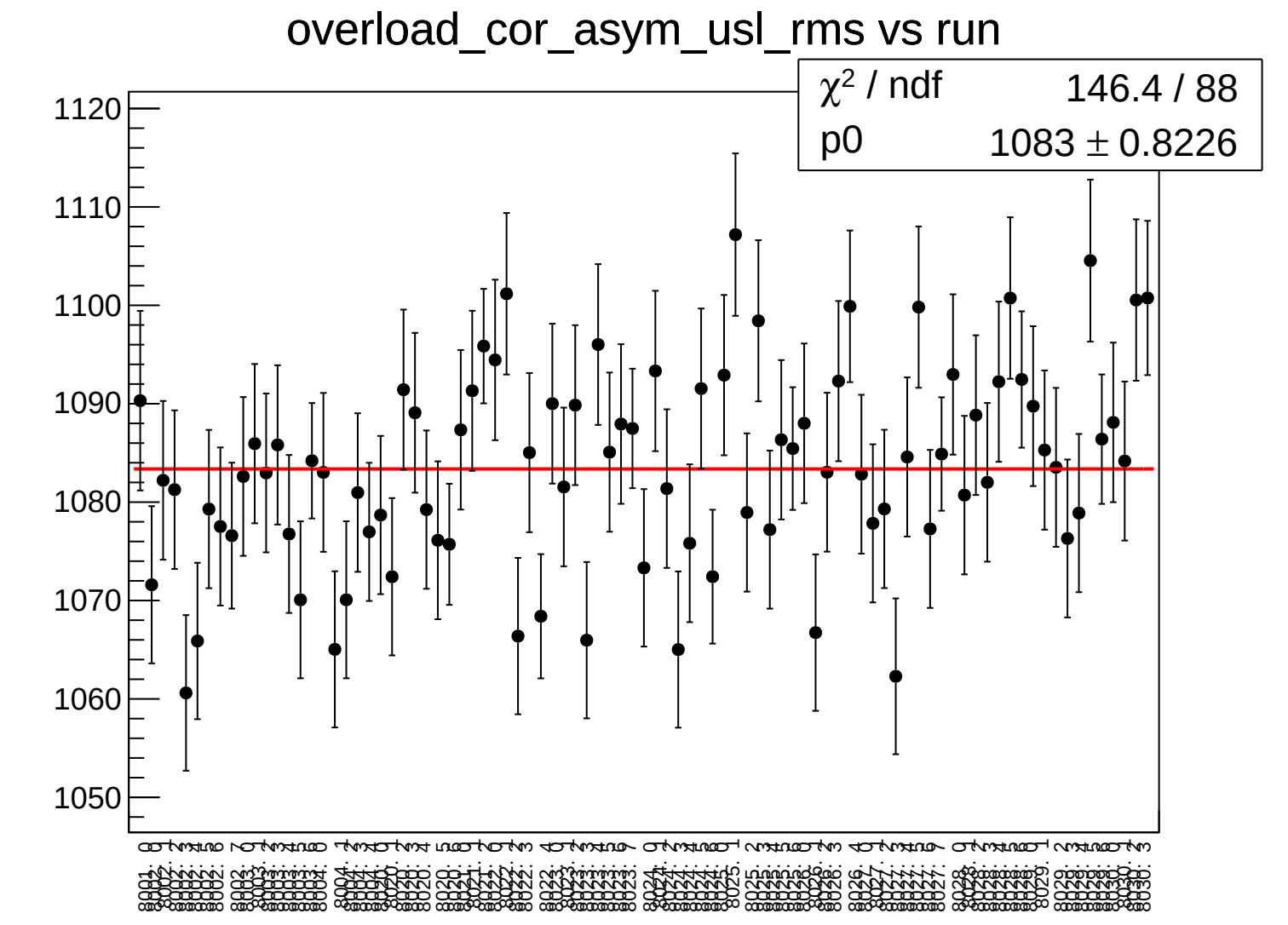

asym_usl_cor_correction_mean vs run
χ² / ndf 80.58 / 88
p0 342.5 ± 899.6
pull
Entries 89
Mean 257.8
Std Dev 0

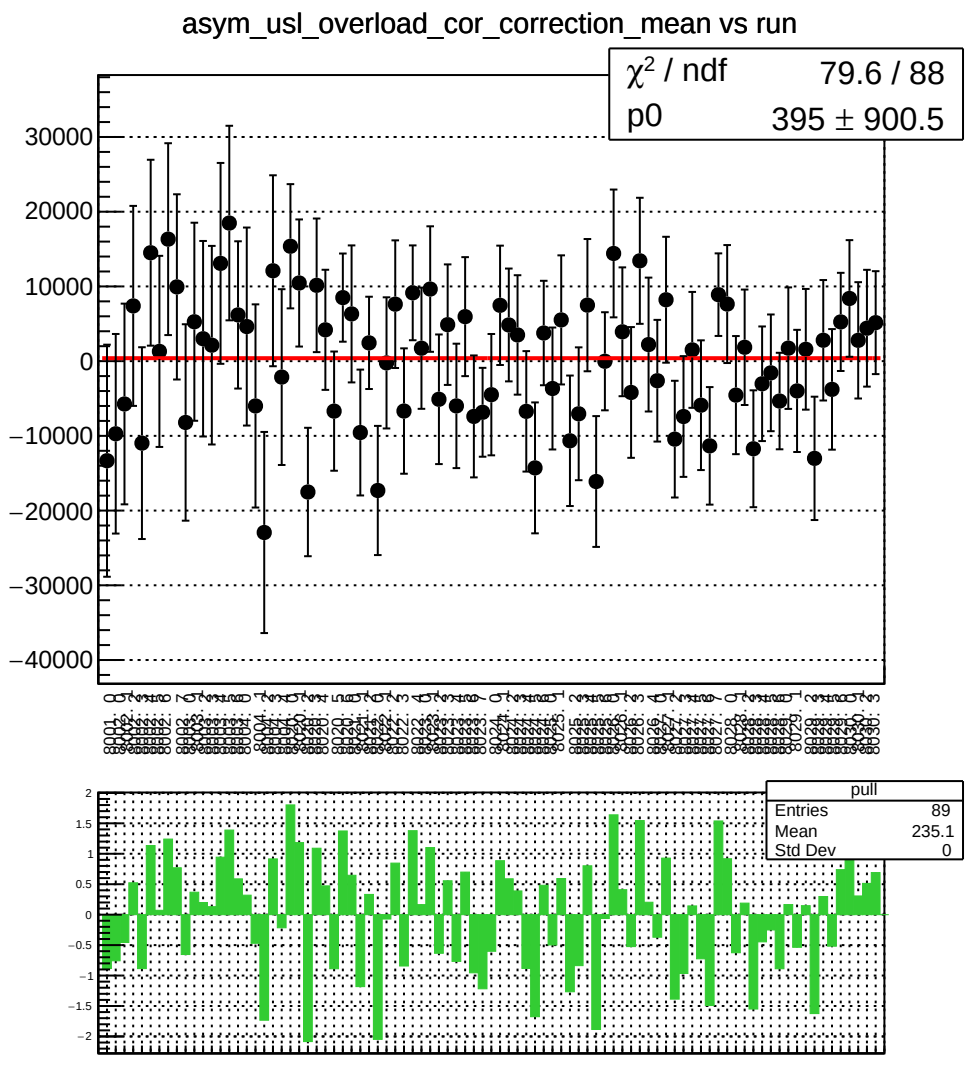

pull1D
Entries 89
Mean −0.01062
Std Dev 0.9515

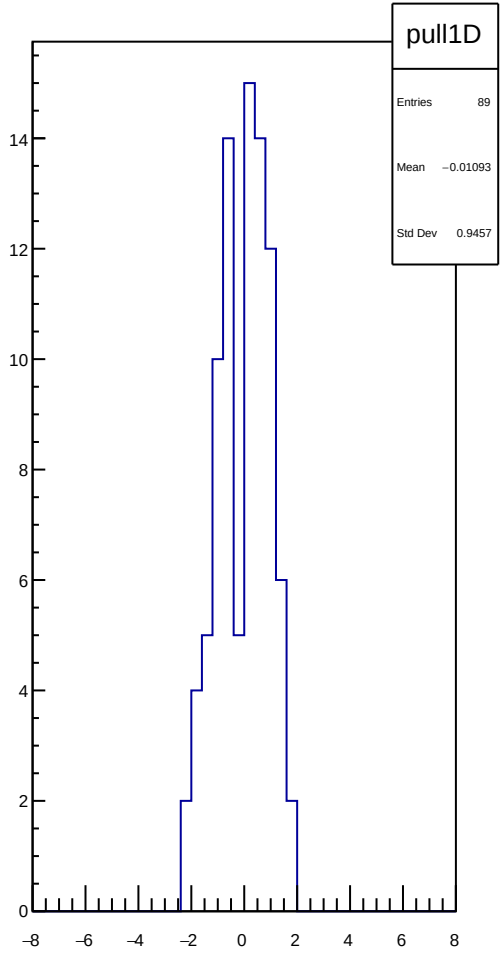

asym_usl_cor_correction_rms vs run
χ² / ndf 5.589e+04 / 88
p0 824.2 ± 0.6361
1300
1200
1100
1000
900
800
700

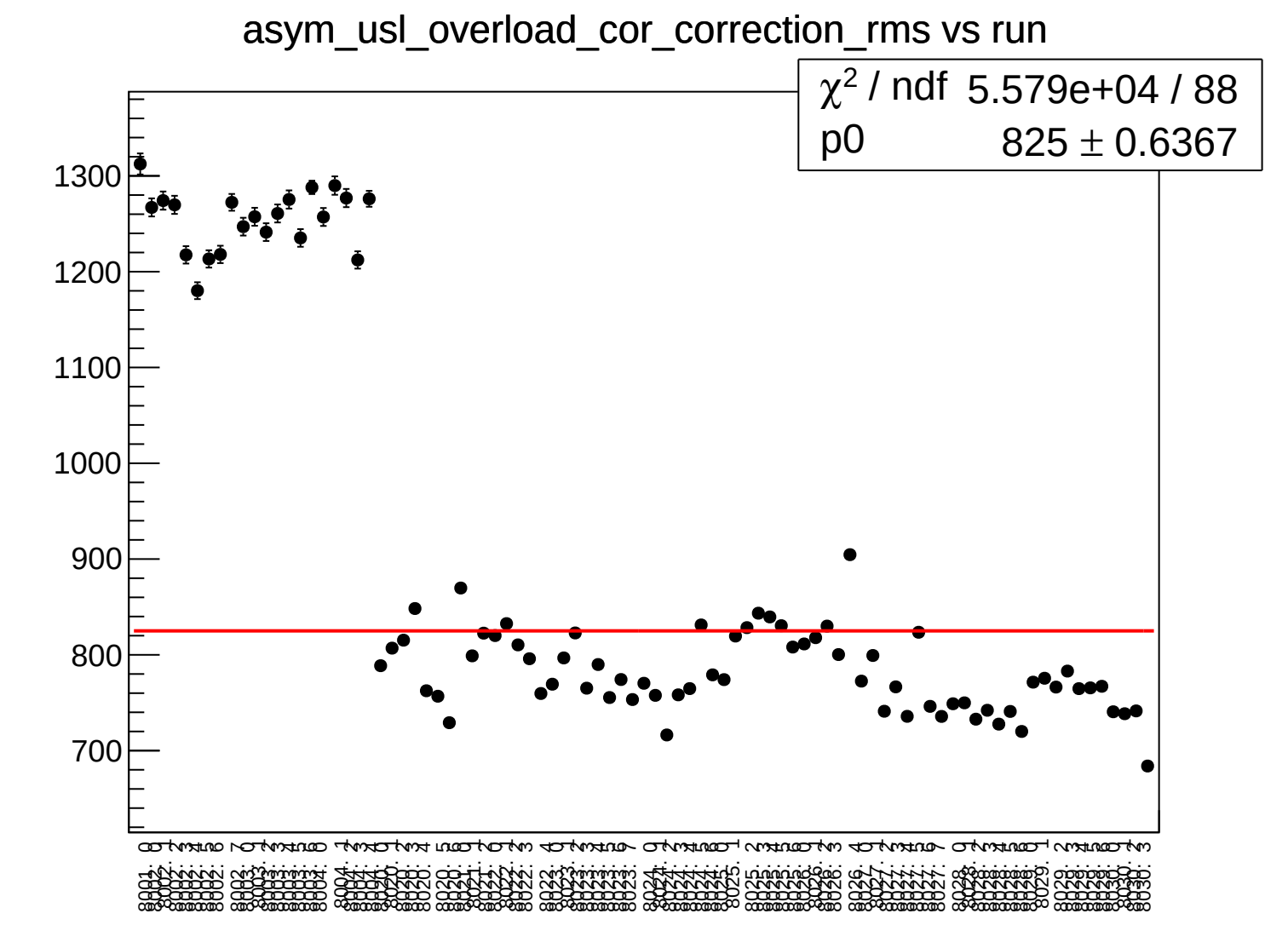

overload_cor_asym_usl_mean vs run
χ² / ndf 108.6 / 88
p0 −3556 ± 1163
pull
Entries 89
Mean 57.2
Std Dev 125.5

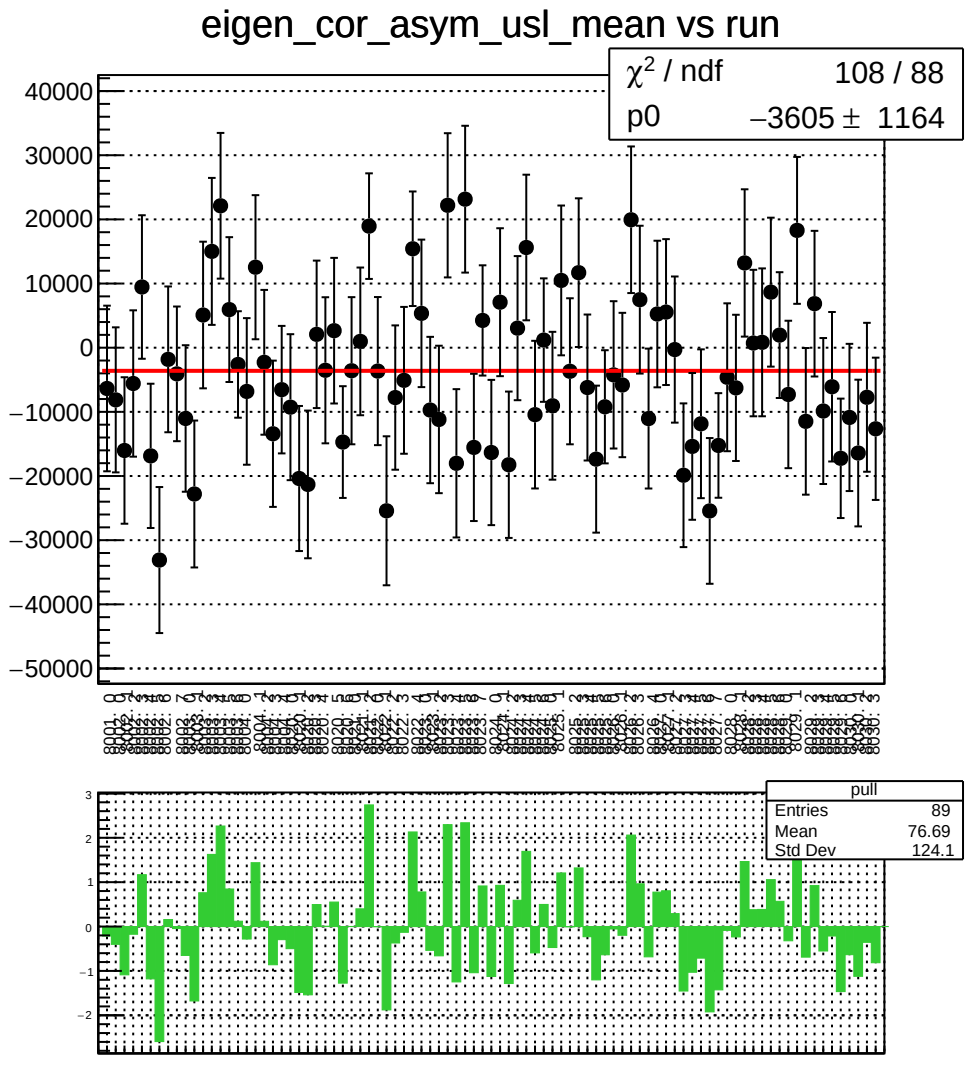

pull1D
Entries 89
Mean −0.007415
Std Dev 1.105

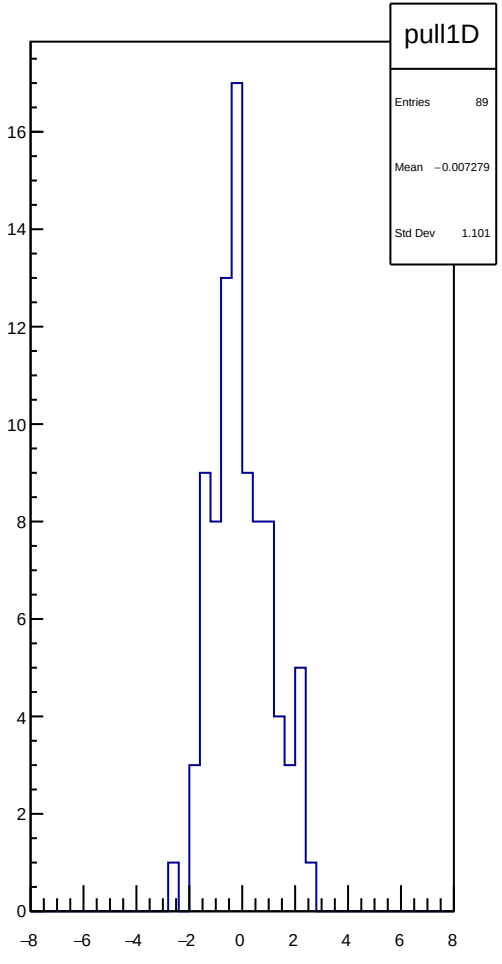

overload_cor_asym_usl_rms vs run
χ² / ndf 146.4 / 88
p0 1083 ± 0.8226
1120
1110
1100
1090
1080
1070
1060
1050

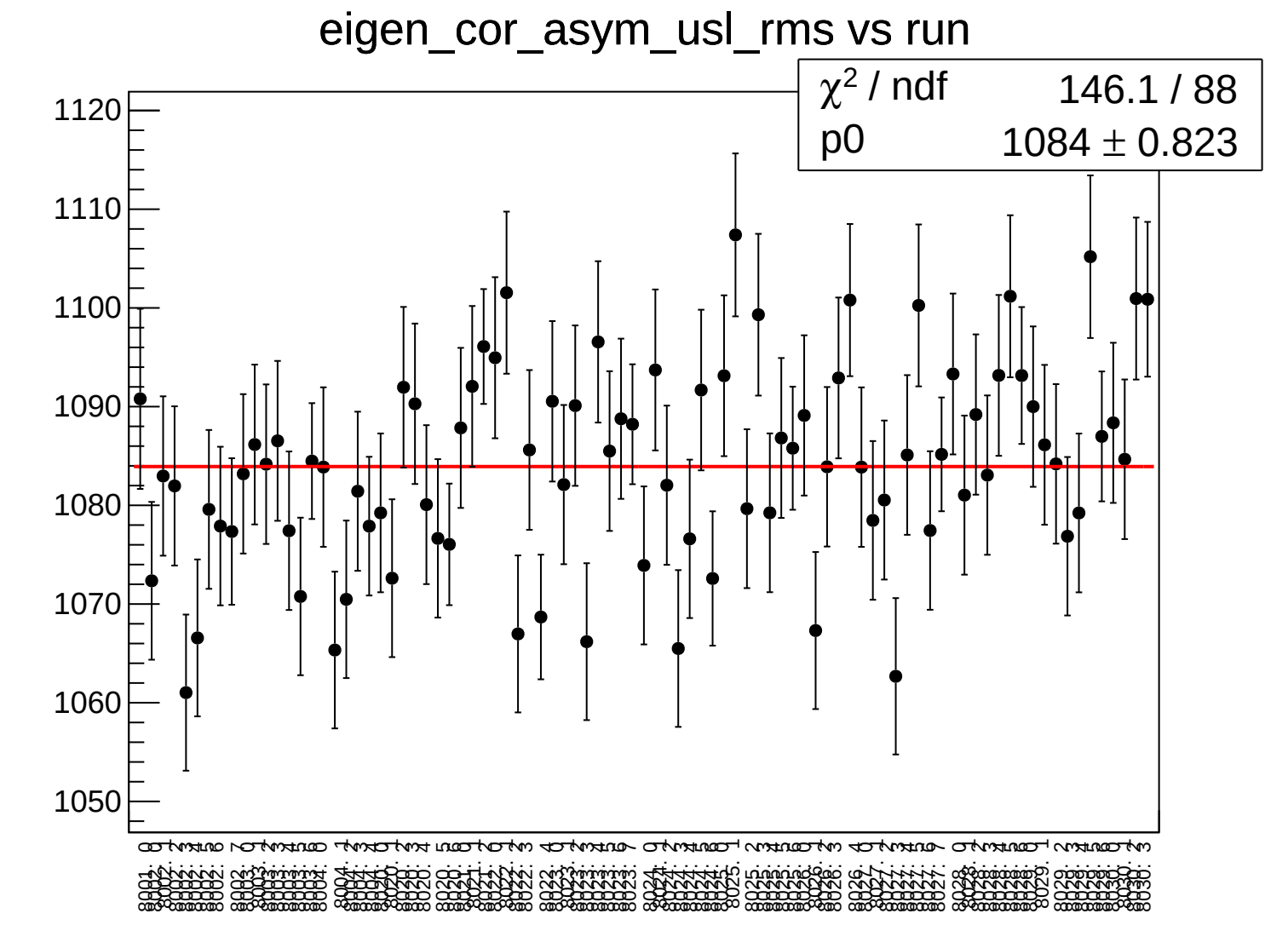

asym_usl_overload_cor_correction_mean vs run
χ² / ndf 79.6 / 88
p0 395 ± 900.5
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean 235.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

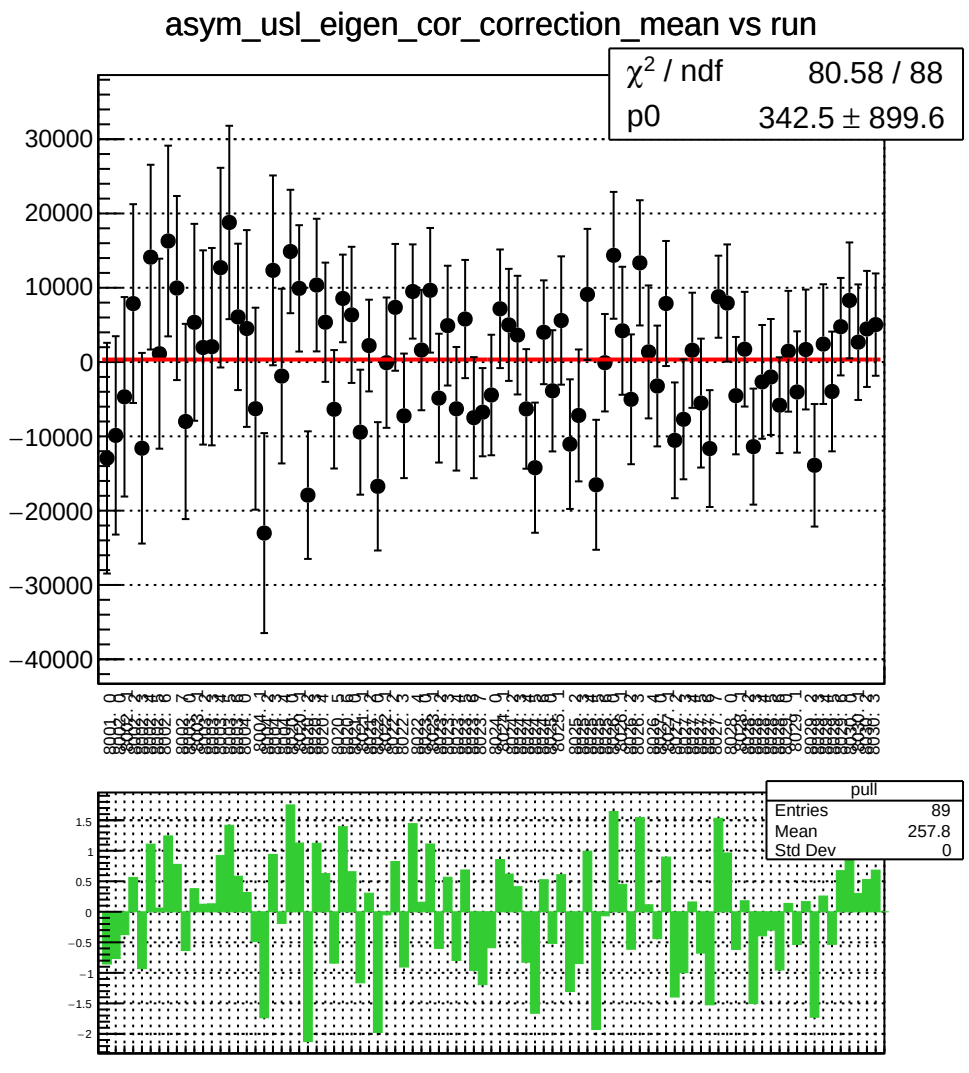

pull1D
Entries 89
Mean −0.01093
Std Dev 0.9457
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

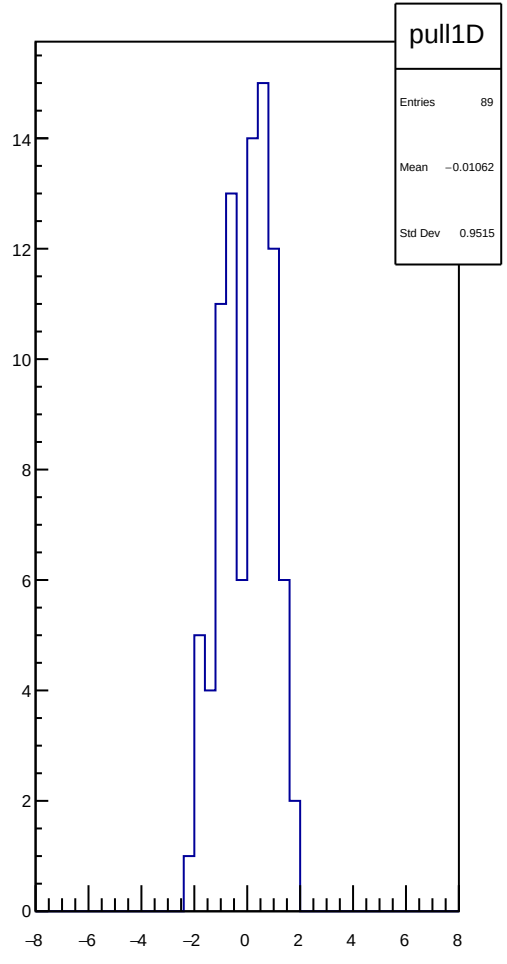

asym_usl_overload_cor_correction_rms vs run
χ² / ndf 5.579e+04 / 88
p0 825 ± 0.6367
1300
1200
1100
1000
900
800
700

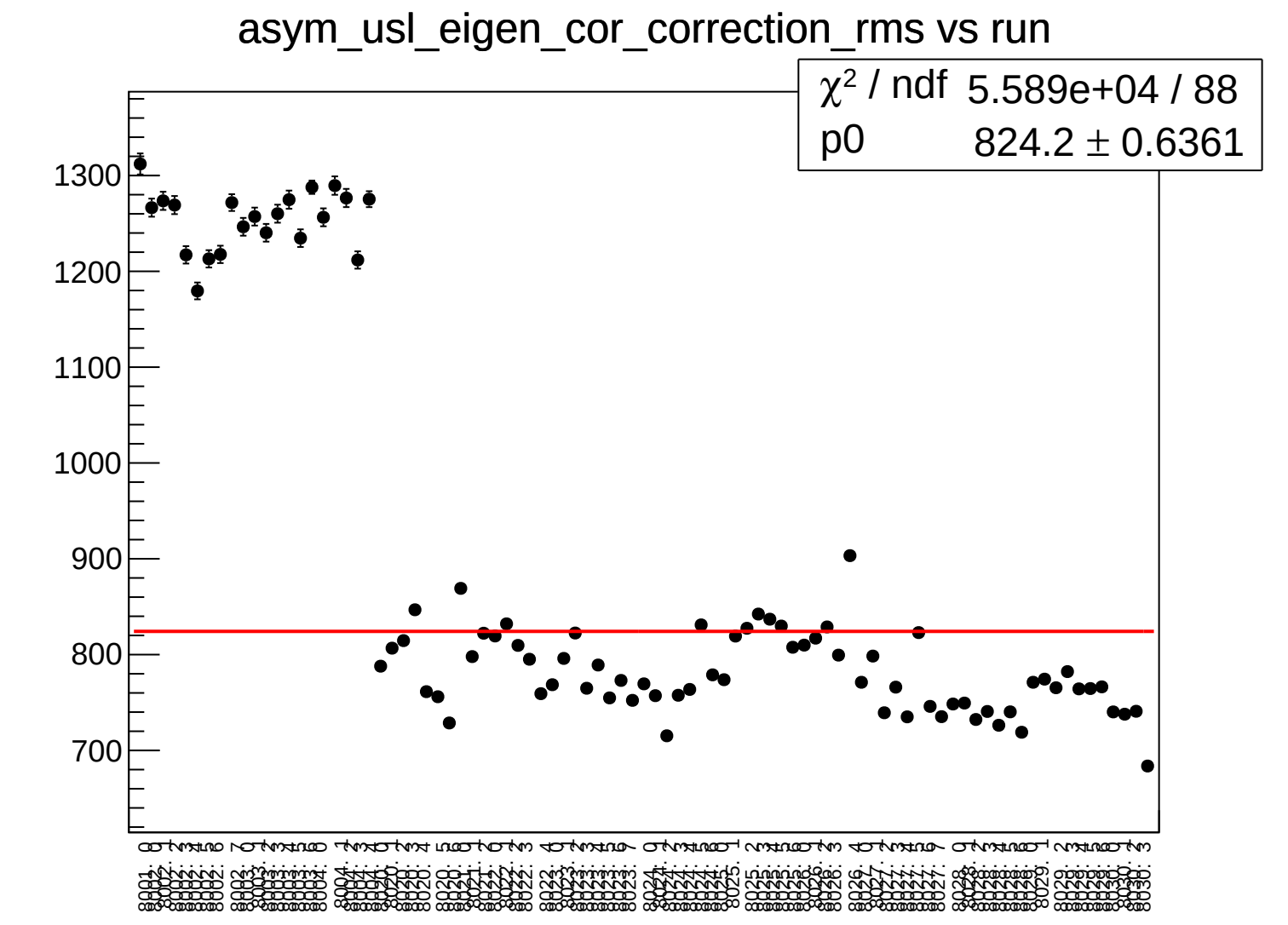

eigen_cor_asym_usl_mean vs run
χ² / ndf 108 / 88
p0 −3605 ± 1164
pull
Entries 89
Mean 76.69
Std Dev 124.1

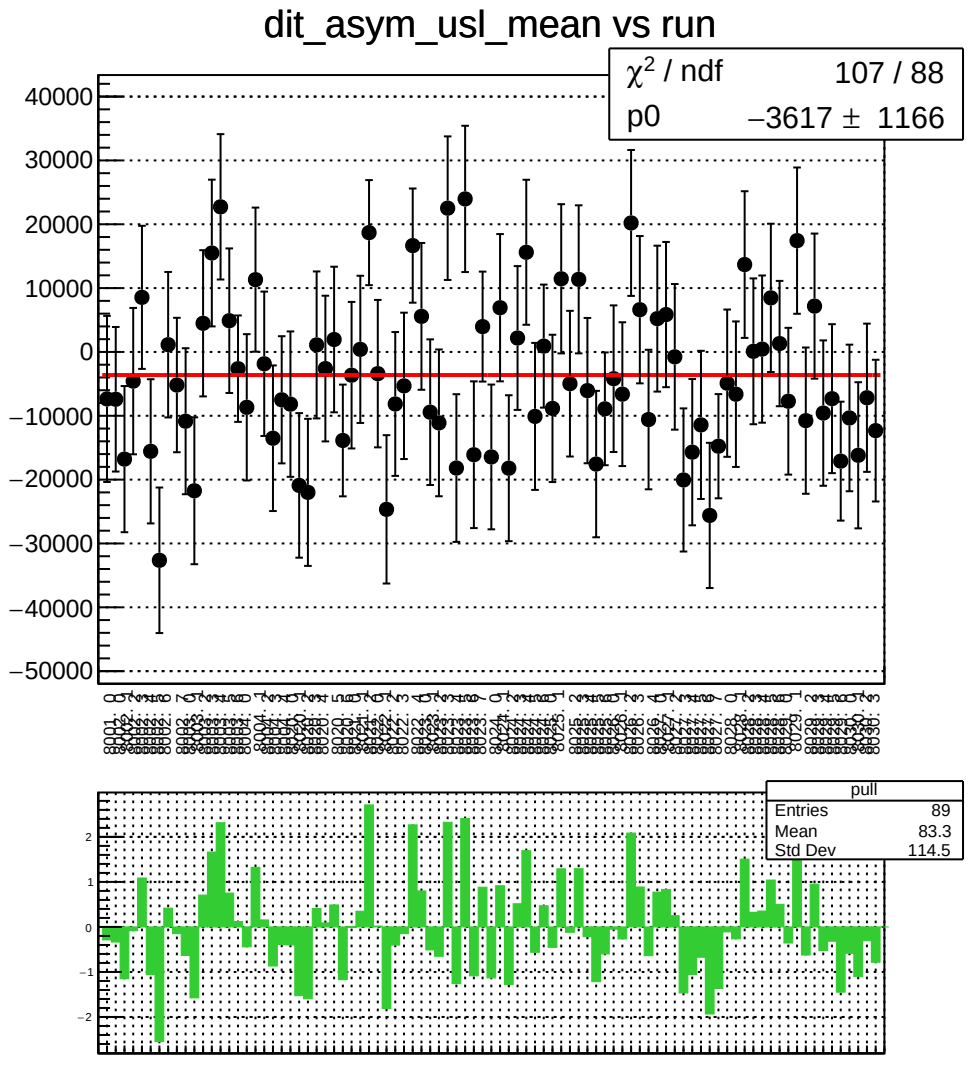

pull1D
Entries 89
Mean −0.007279
Std Dev 1.101

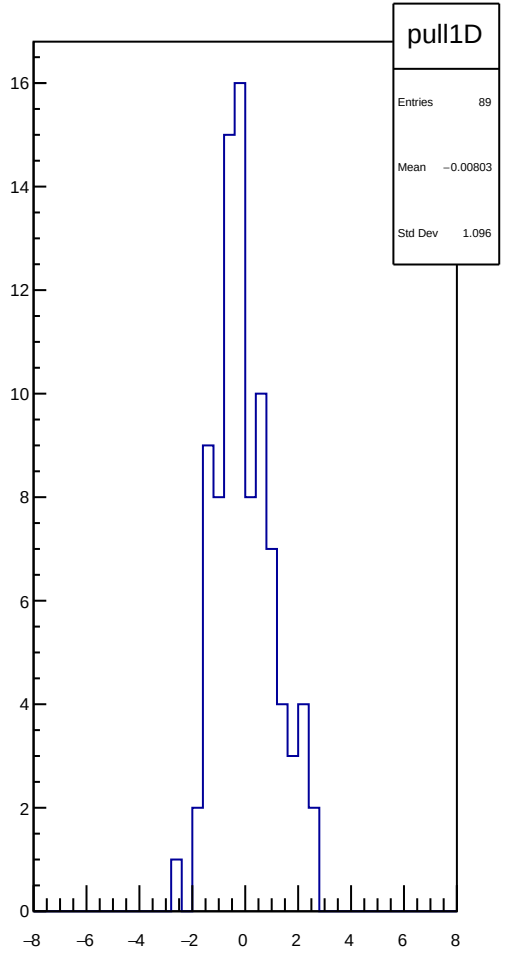

eigen_cor_asym_usl_rms vs run
χ² / ndf 146.1 / 88
p0 1084 ± 0.823
1120
1110
1100
1090
1080
1070
1060
1050

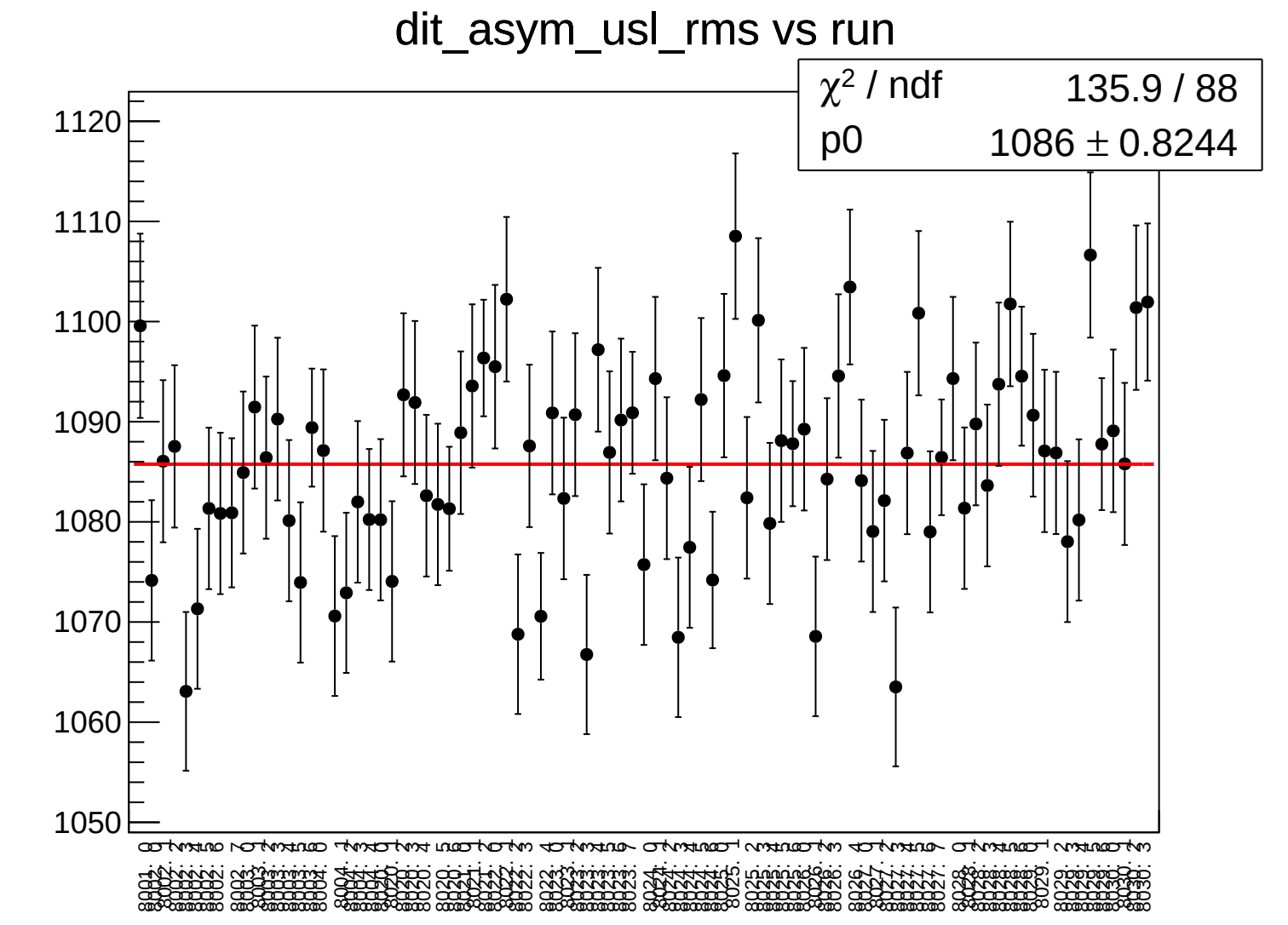

asym_usl_eigen_cor_correction_mean vs run
χ² / ndf 80.58 / 88
p0 342.5 ± 899.6
pull
Entries 89
Mean 257.8
Std Dev 0

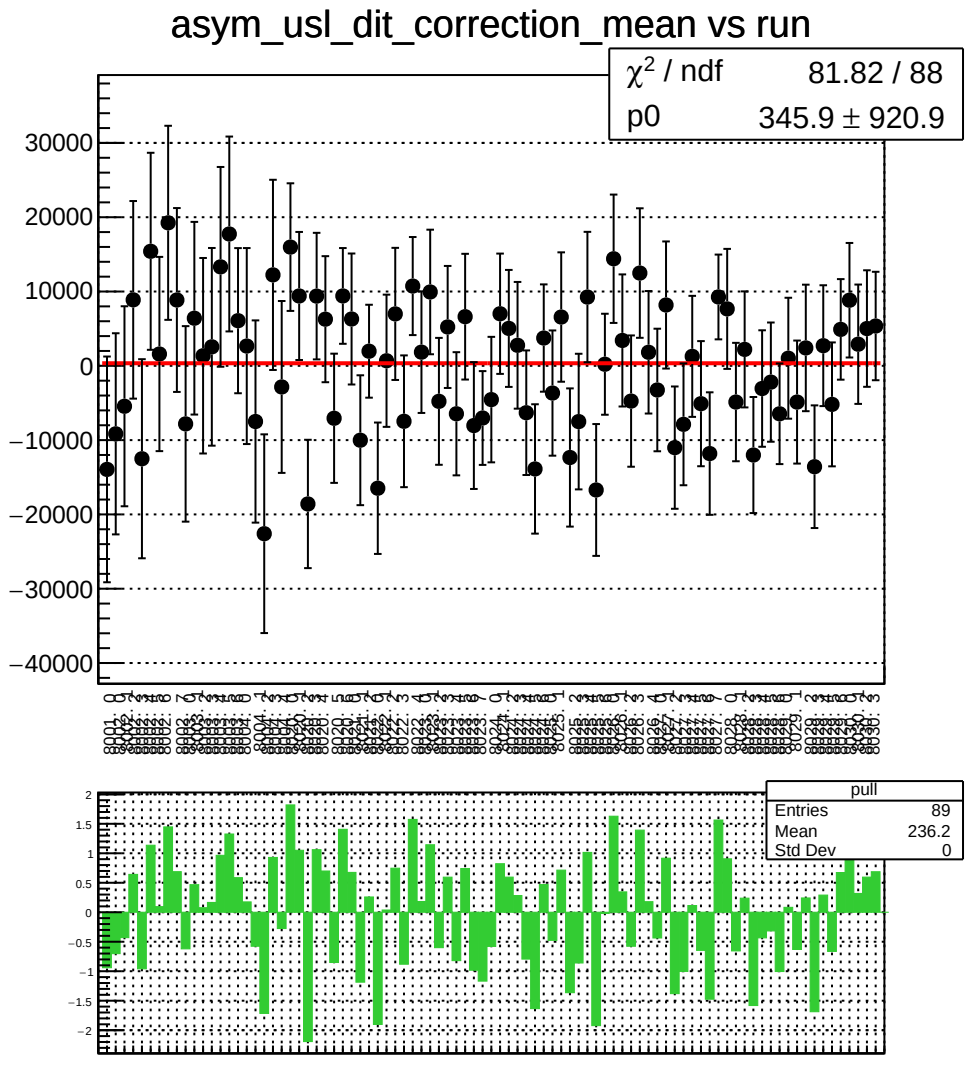

pull1D
Entries 89
Mean −0.01062
Std Dev 0.9515

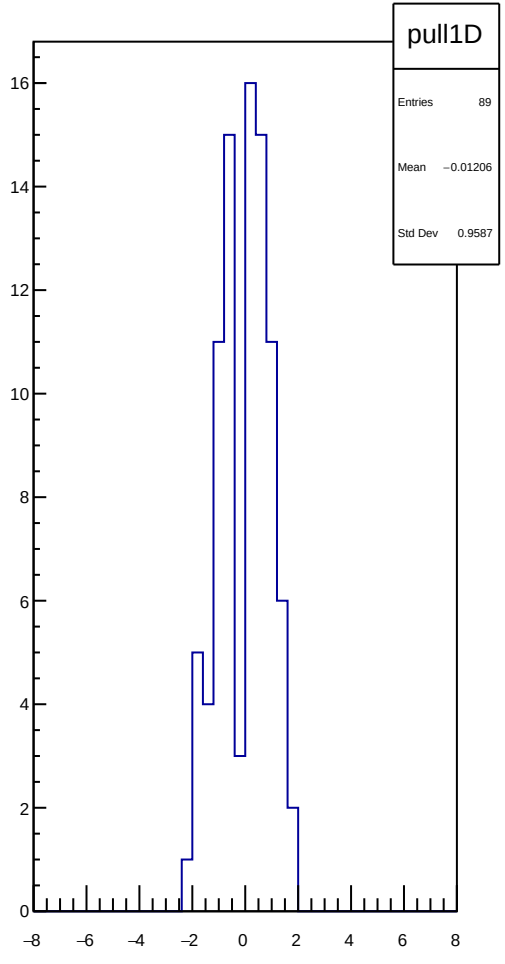

asym_usl_eigen_cor_correction_rms vs run
χ² / ndf 5.589e+04 / 88
p0 824.2 ± 0.6361
1300
1200
1100
1000
900
800
700

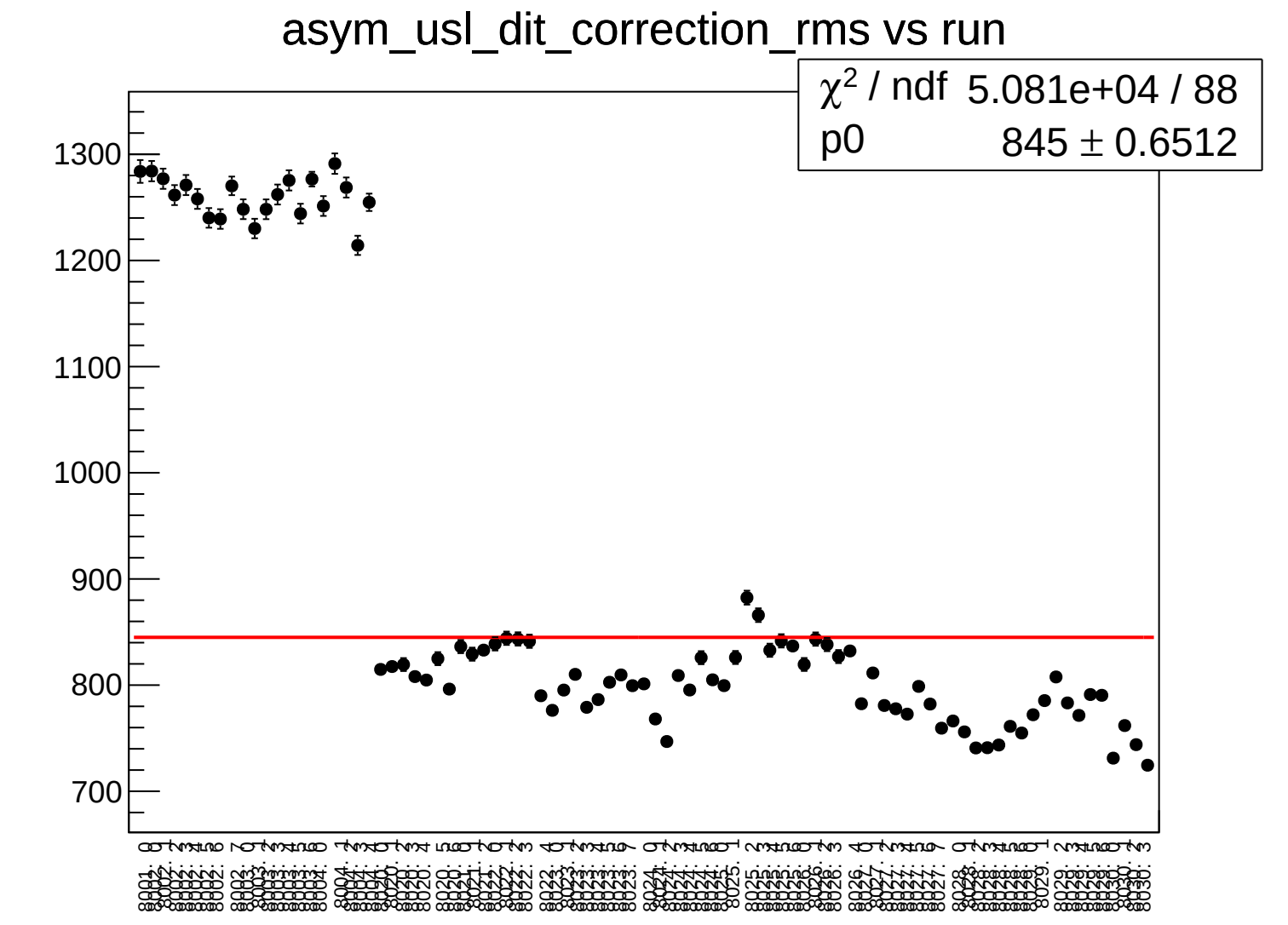

dit_asym_usl_mean vs run
χ² / ndf 107 / 88
p0 −3617 ± 1166
pull
Entries 89
Mean 83.3
Std Dev 114.5

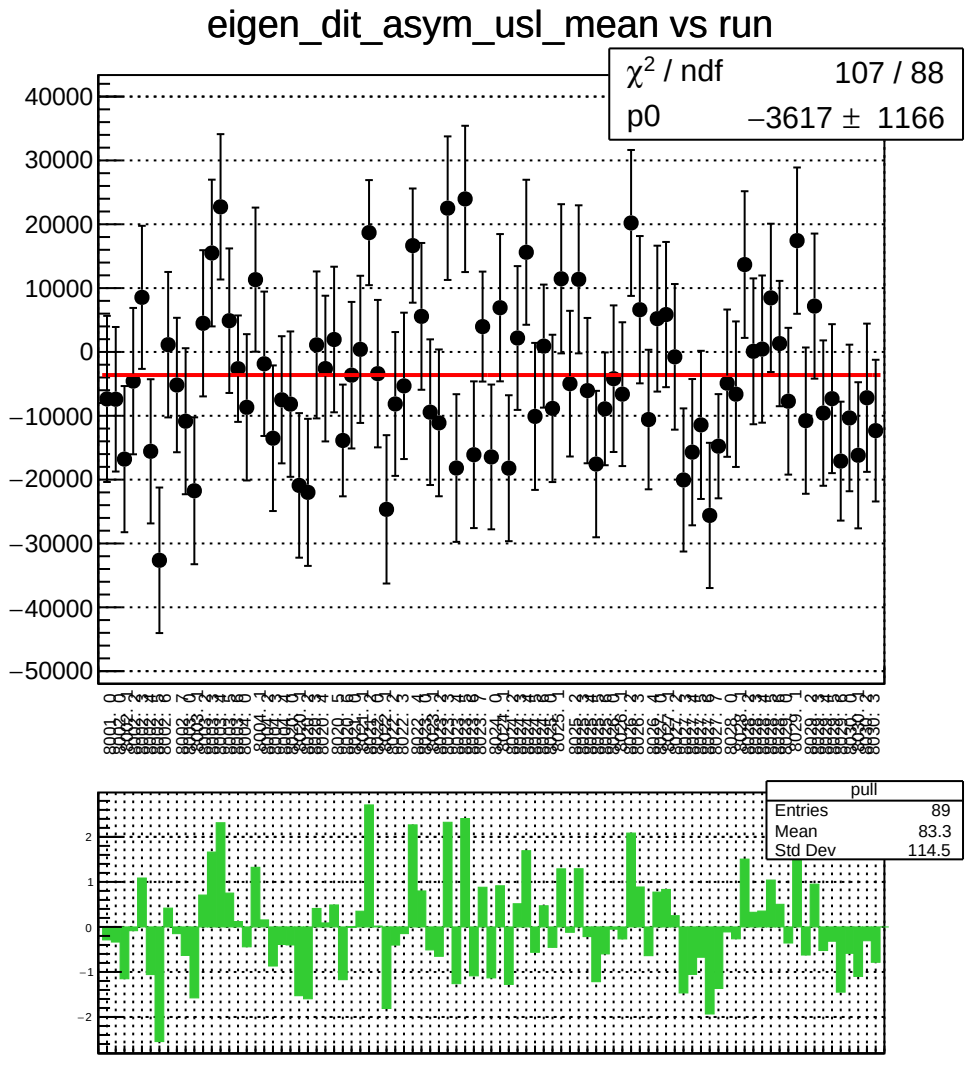

pull1D
Entries 89
Mean −0.00803
Std Dev 1.096

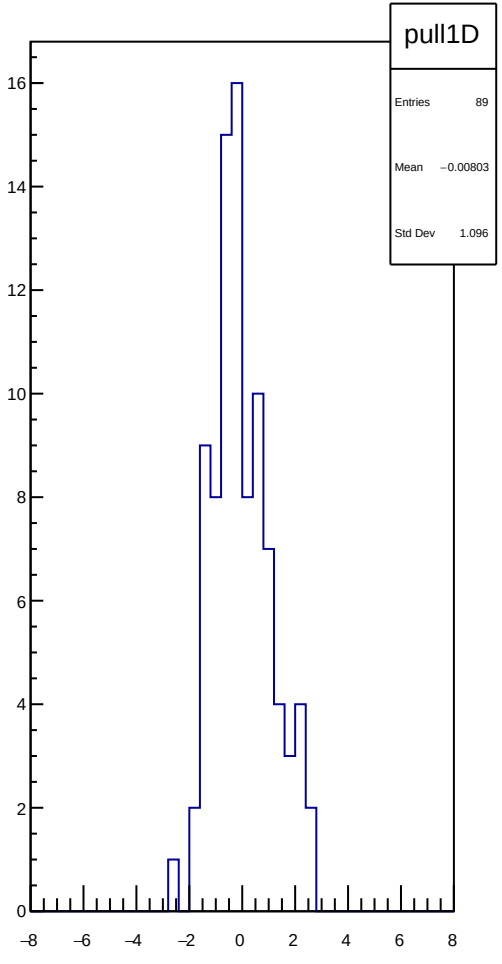

dit_asym_usl_rms vs run
χ² / ndf 135.9 / 88
p0 1086 ± 0.8244
1120
1110
1100
1090
1080
1070
1060
1050

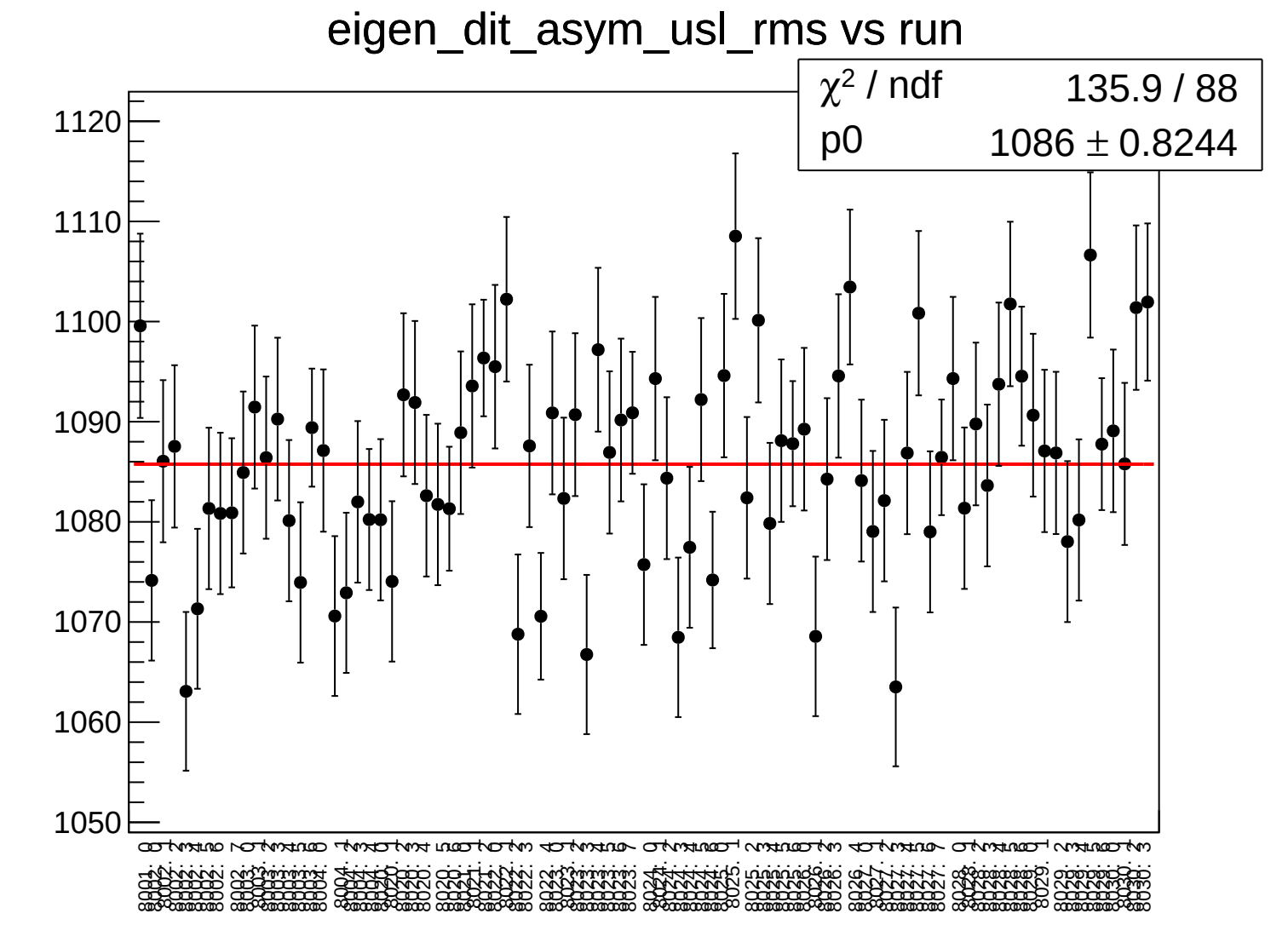

asym_usl_dit_correction_mean vs run
χ² / ndf 81.82 / 88
p0 345.9 ± 920.9
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean 236.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

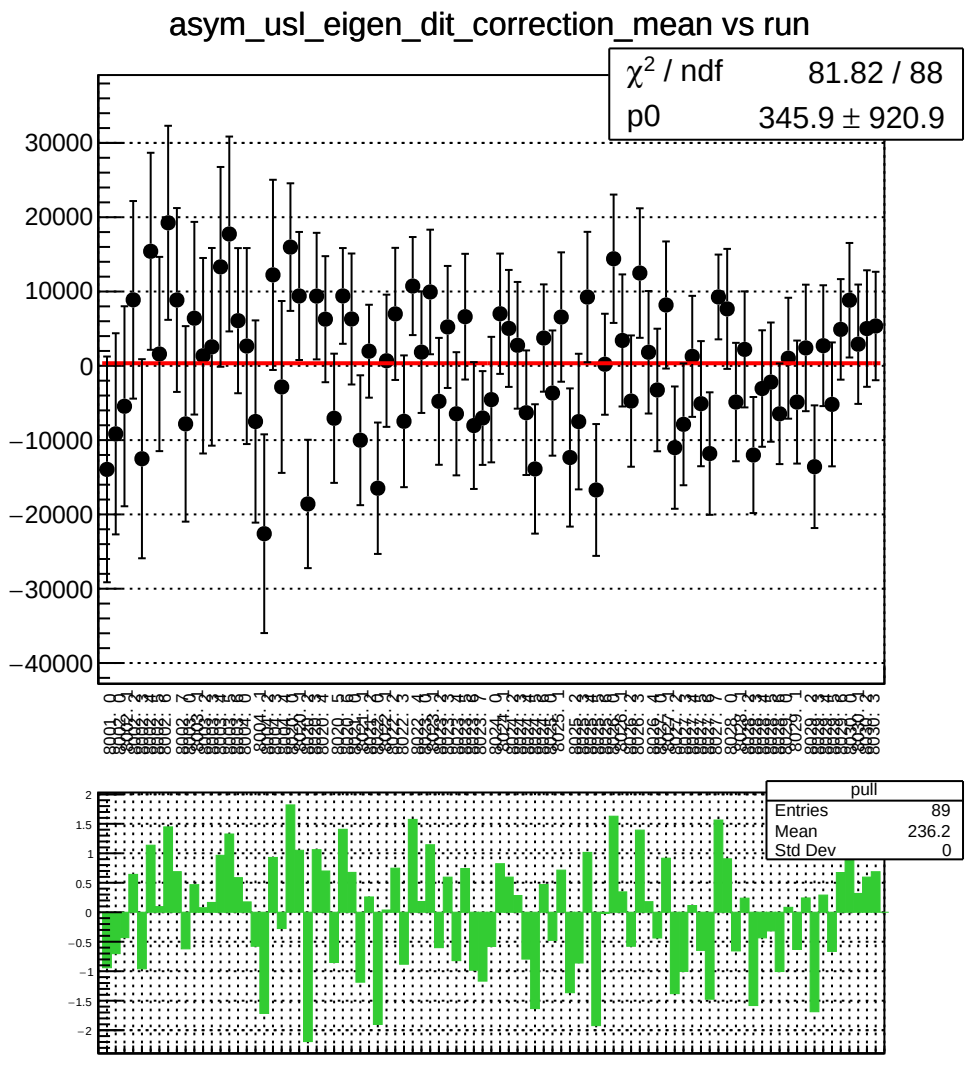

pull1D
Entries 89
Mean −0.01206
Std Dev 0.9587
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

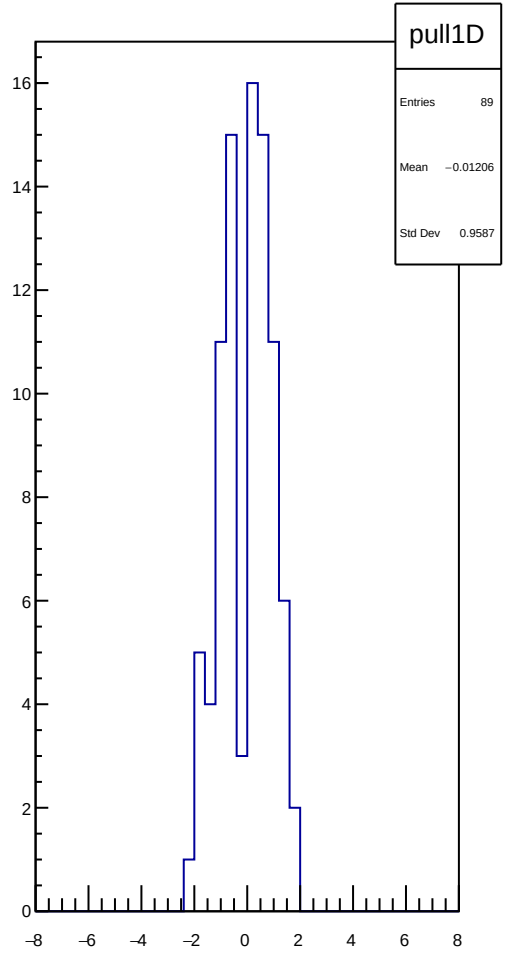

asym_usl_dit_correction_rms vs run
χ² / ndf 5.081e+04 / 88
p0 845 ± 0.6512
1300
1200
1100
1000
900
800
700

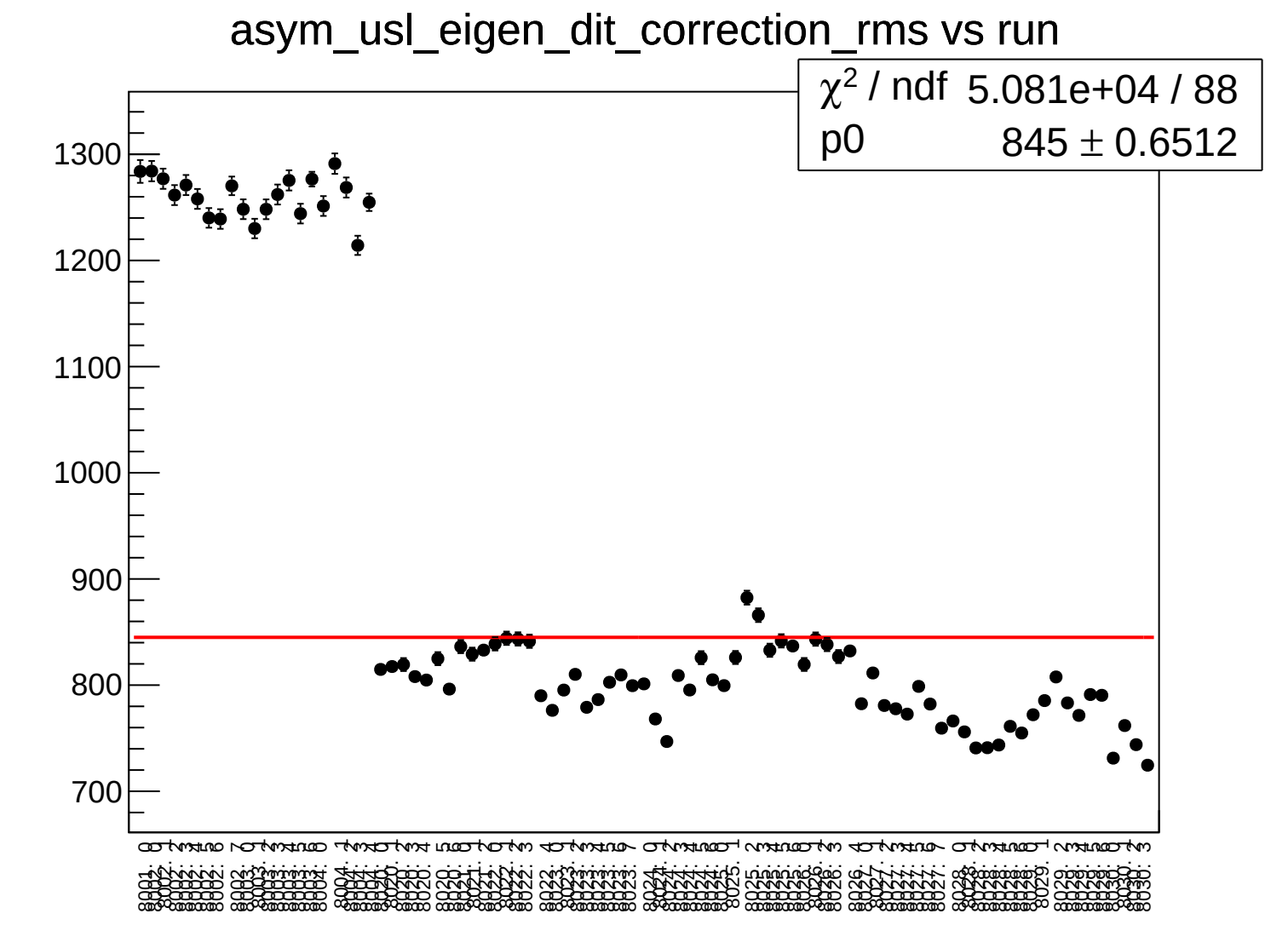

eigen_dit_asym_usl_mean vs run
χ² / ndf 107 / 88
p0 −3617 ± 1166
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
pull
Entries 89
Mean 83.3
Std Dev 114.5
2
1
0
−1
−2

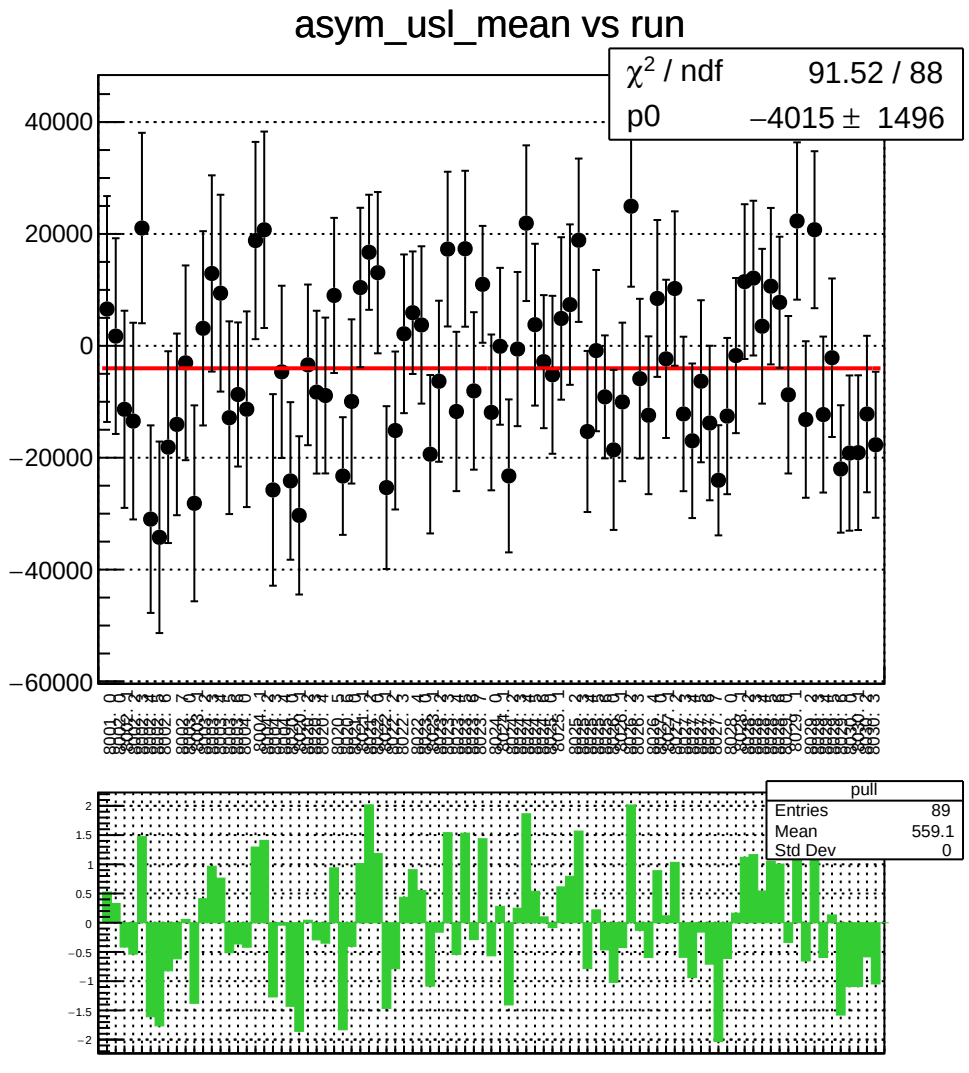

pull1D
Entries 89
Mean −0.00803
Std Dev 1.096
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

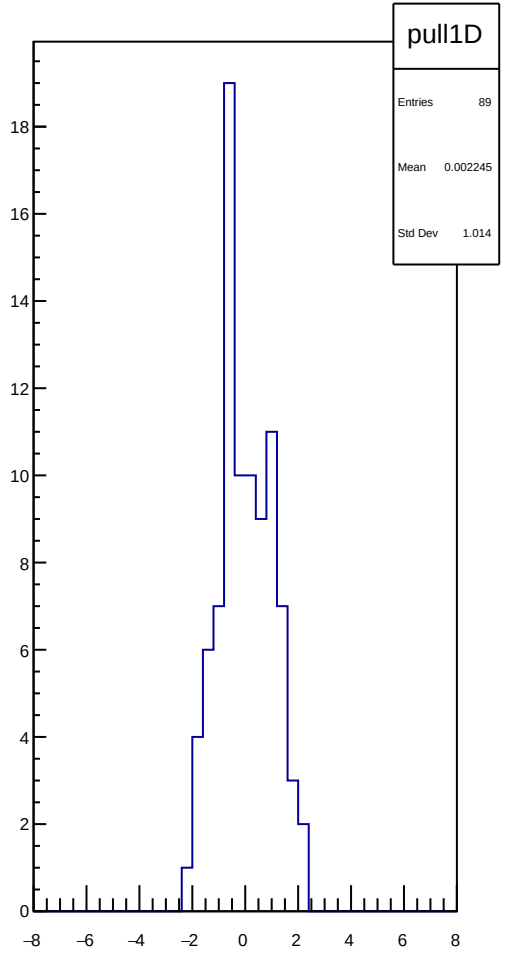

eigen_dit_asym_usl_rms vs run
χ² / ndf 135.9 / 88
p0 1086 ± 0.8244
1120
1110
1100
1090
1080
1070
1060
1050

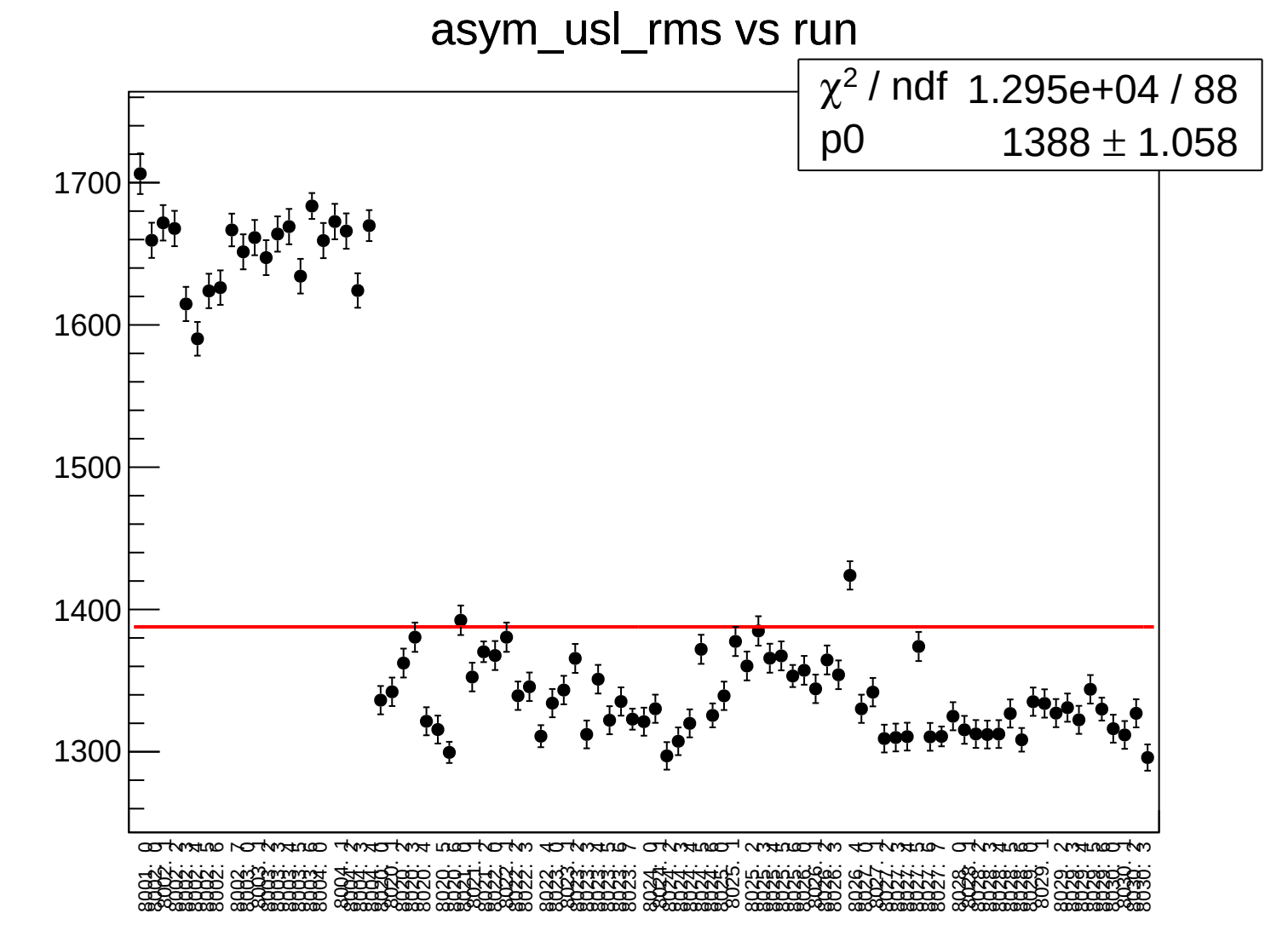

asym_usl_eigen_dit_correction_mean vs run
χ² / ndf 81.82 / 88
p0 345.9 ± 920.9
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean 236.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

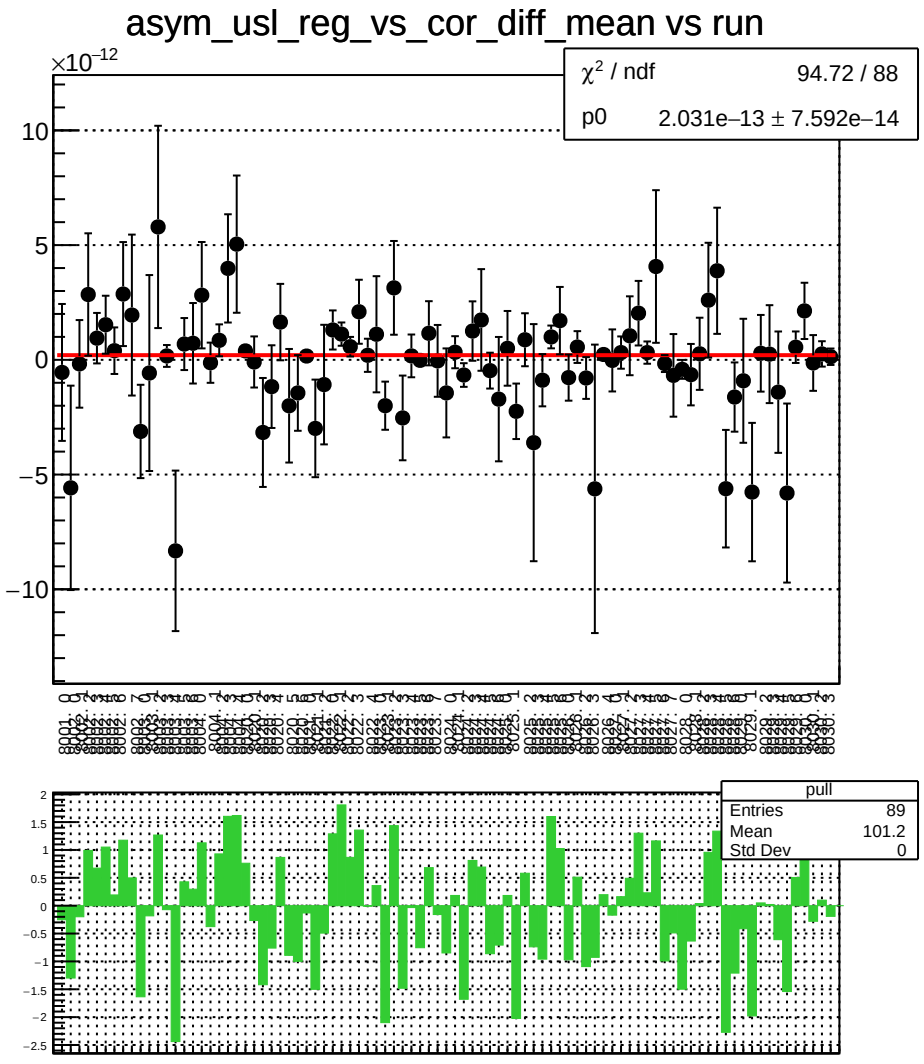

pull1D
Entries 89
Mean −0.01206
Std Dev 0.9587
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

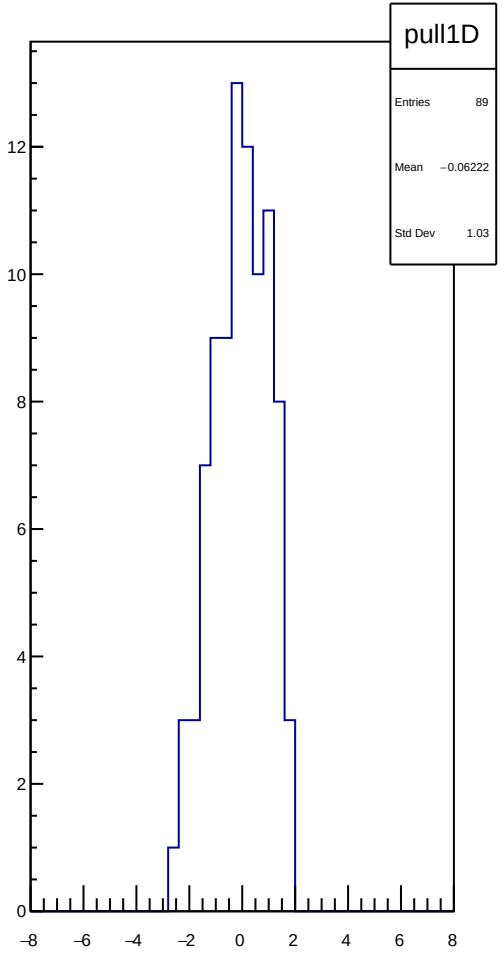

asym_usl_eigen_dit_correction_rms vs run
χ² / ndf 5.081e+04 / 88
p0 845 ± 0.6512
1300
1200
1100
1000
900
800
700

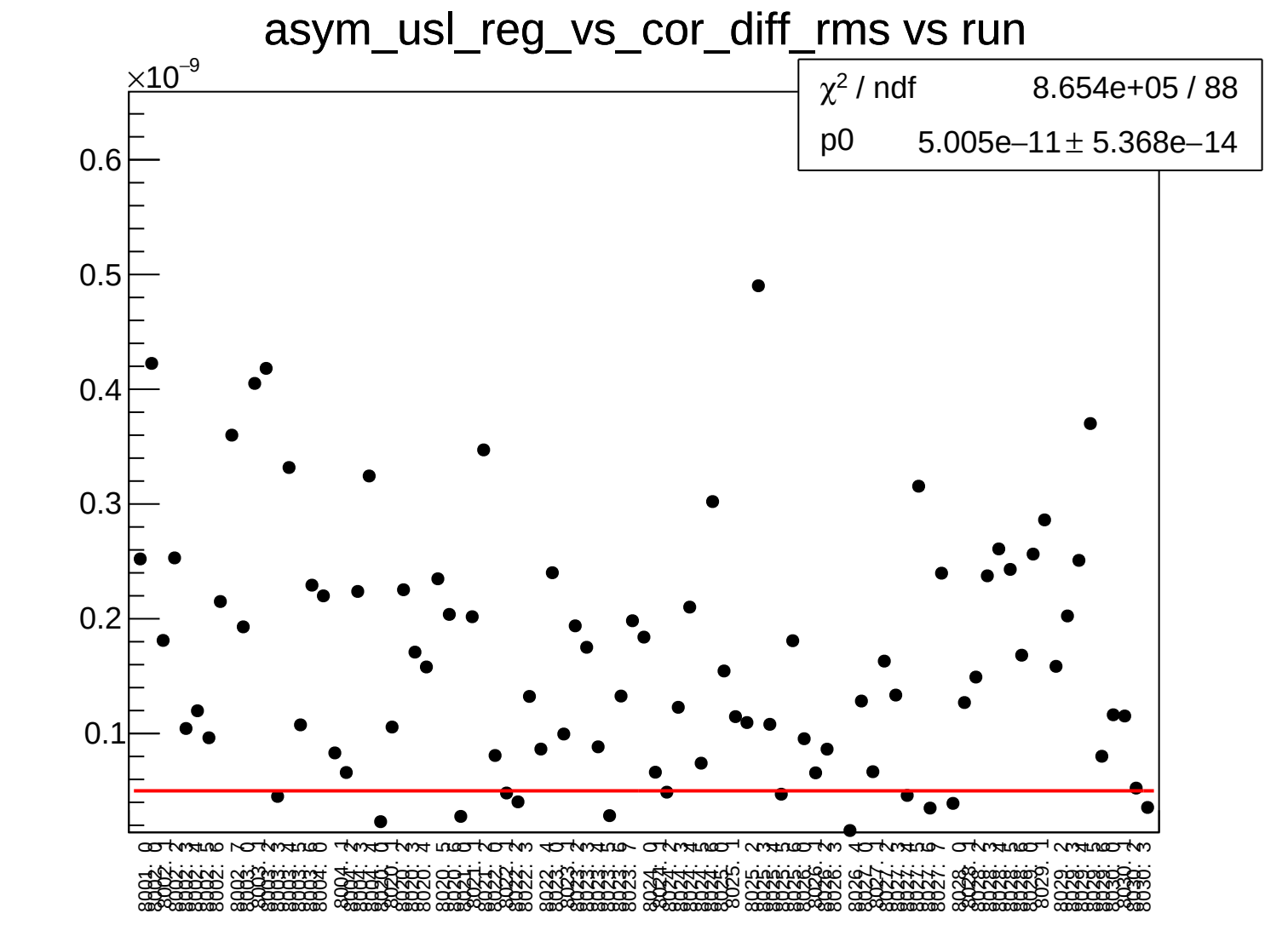

asym_usl_mean vs run
χ^2 / ndf 91.52 / 88
p0 −4015 ± 1496
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 559.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

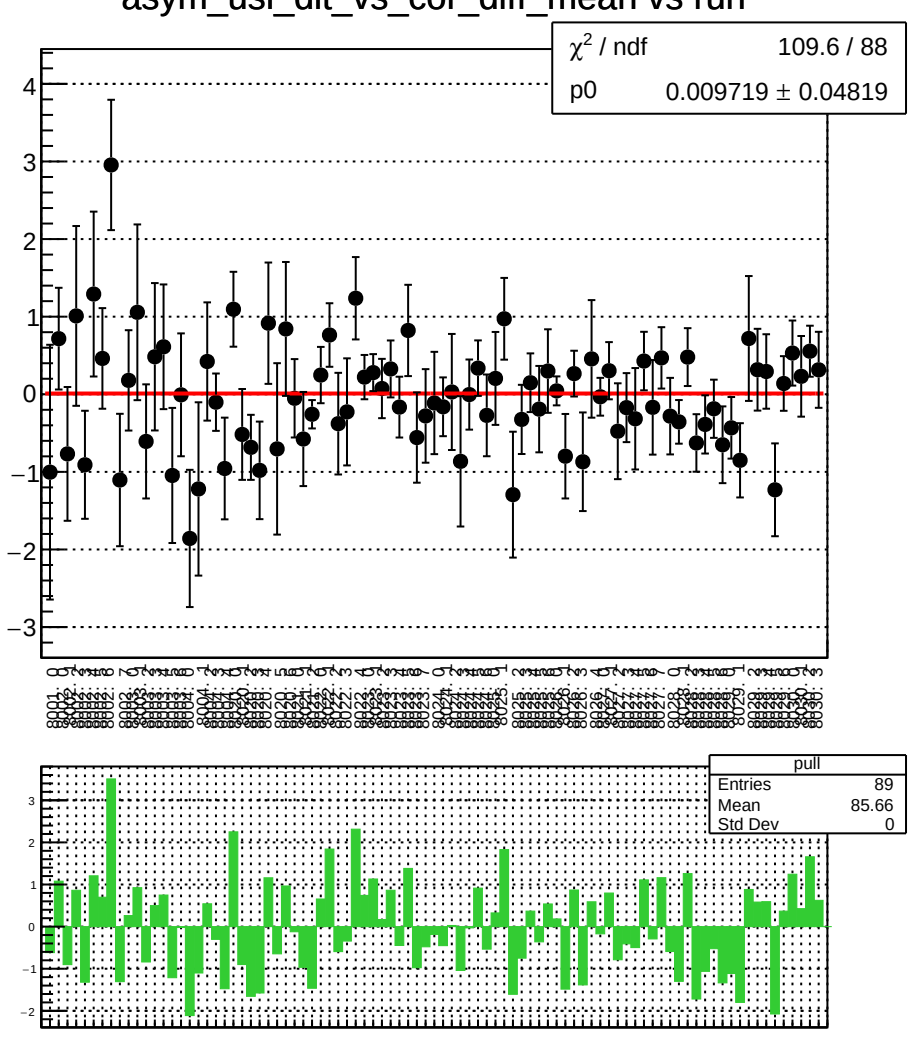

pull1D
Entries 89
Mean 0.002245
Std Dev 1.014
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

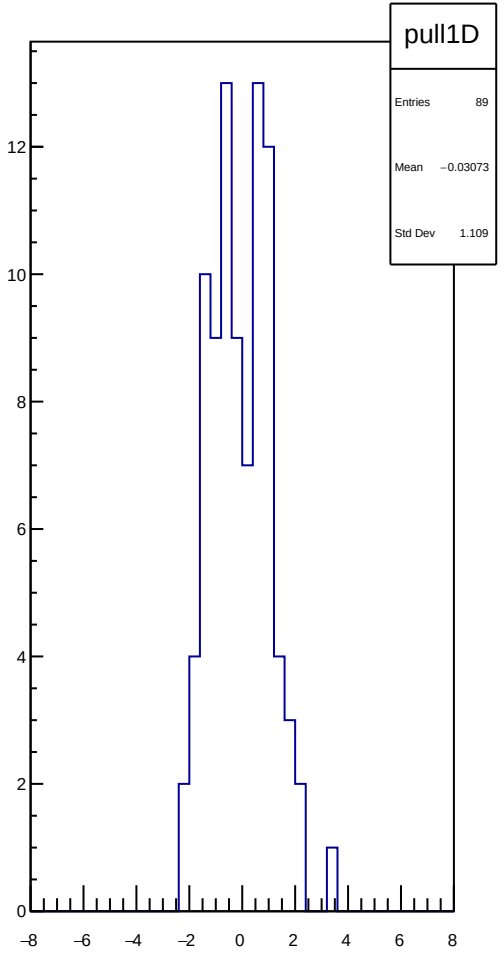

asym_usl_rms vs run
χ² / ndf 1.295e+04 / 88
p0 1388 ± 1.058
1700
1600
1500
1400
1300

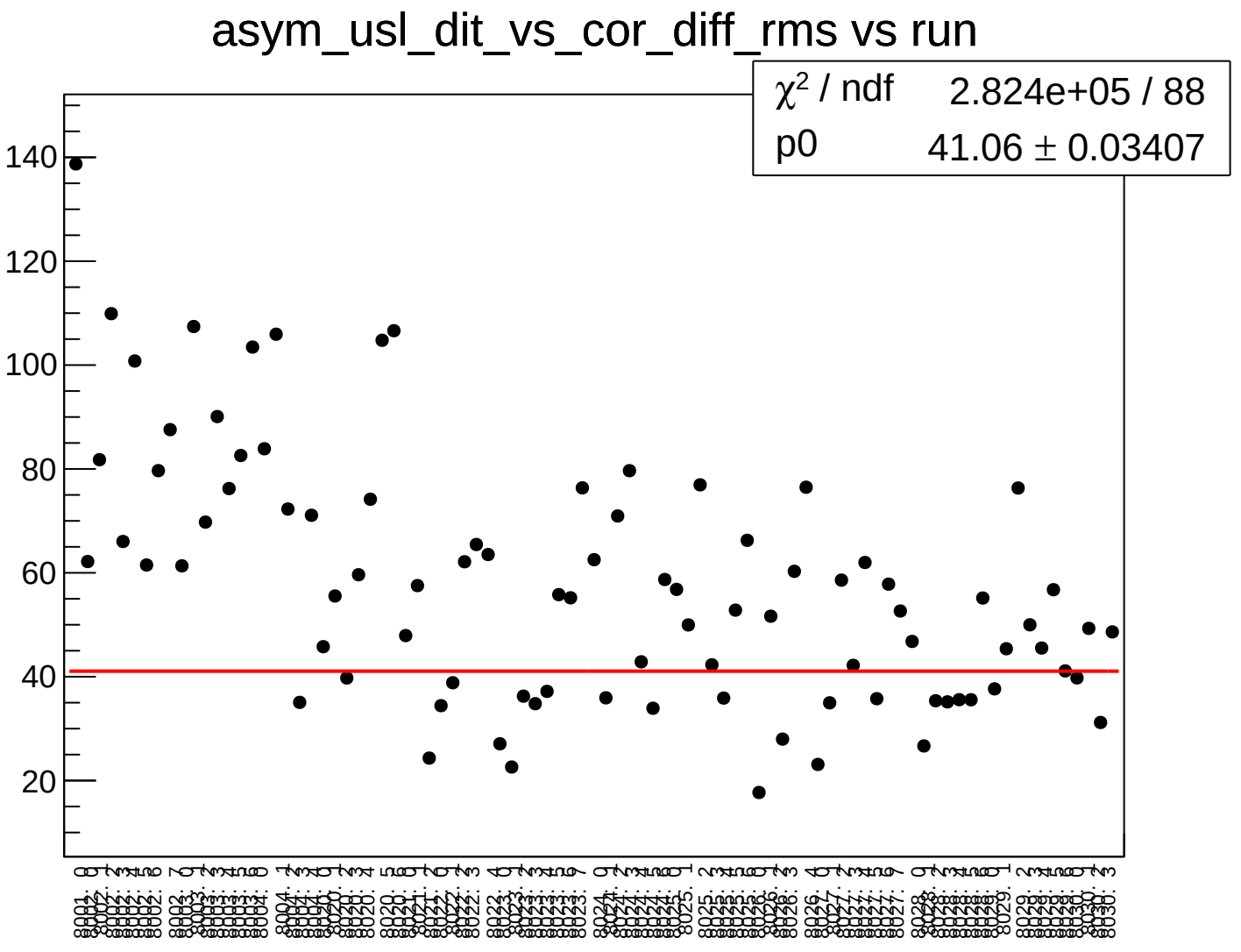

asym_usl_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.72 / 88
p0 2.031e−13 ± 7.592e−14
pull
Entries 89
Mean 101.2
Std Dev 0

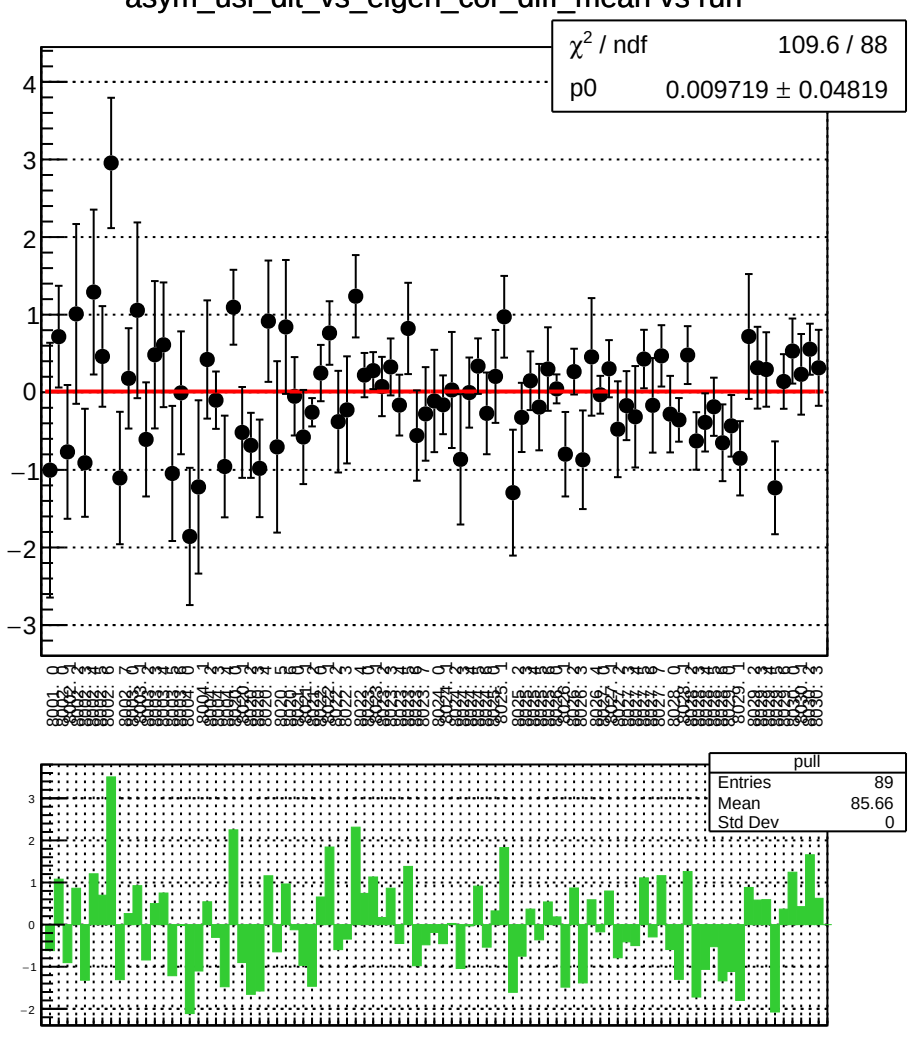

pull1D
Entries 89
Mean −0.06222
Std Dev 1.03

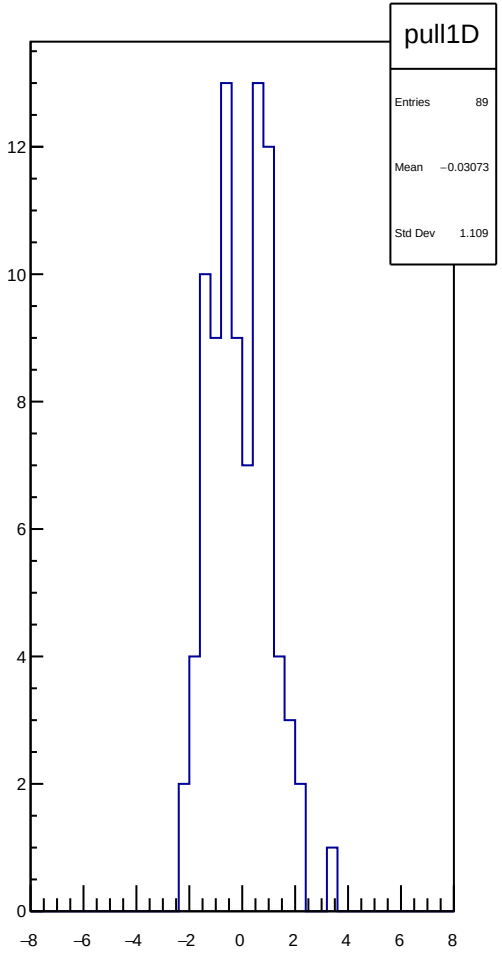

asym_usl_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.654e+05 / 88
p0 5.005e−11 ± 5.368e−14
0.6
0.5
0.4
0.3
0.2
0.1

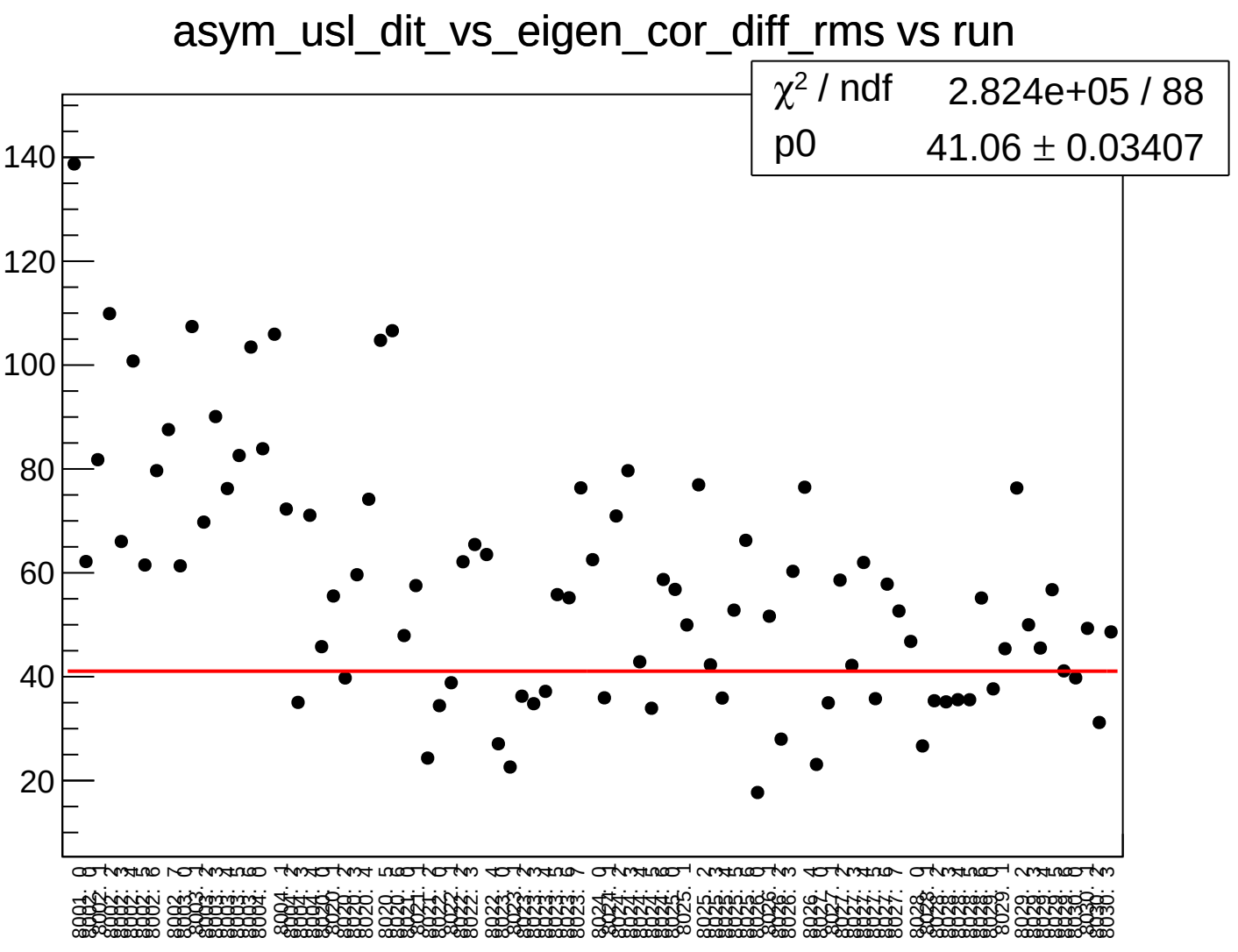

asym_usl_dit_vs_cor_diff_mean vs run
χ² / ndf 109.6 / 88
p0 0.009719 ± 0.04819
pull
Entries 89
Mean 85.66
Std Dev 0

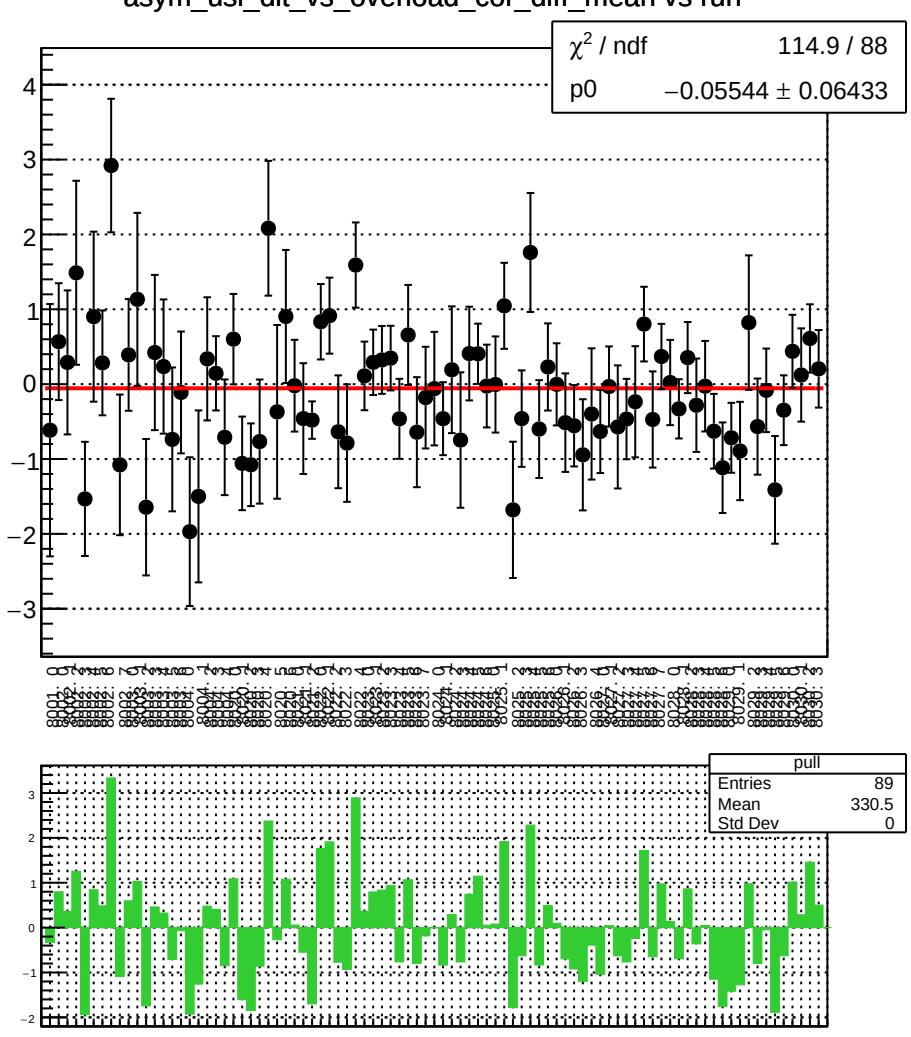

pull1D
Entries 89
Mean −0.03073
Std Dev 1.109

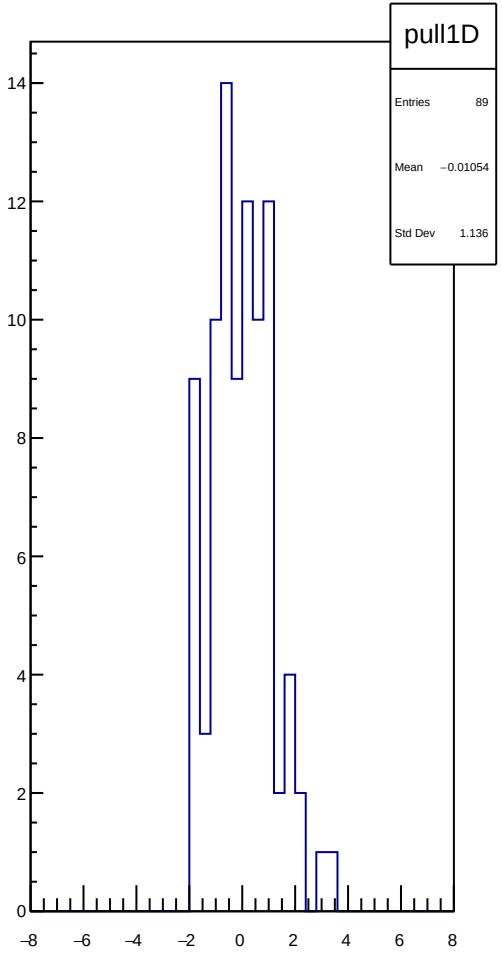

asym_usl_dit_vs_cor_diff_rms vs run
χ² / ndf 2.824e+05 / 88
p0 41.06 ± 0.03407
140
120
100
80
60
40
20

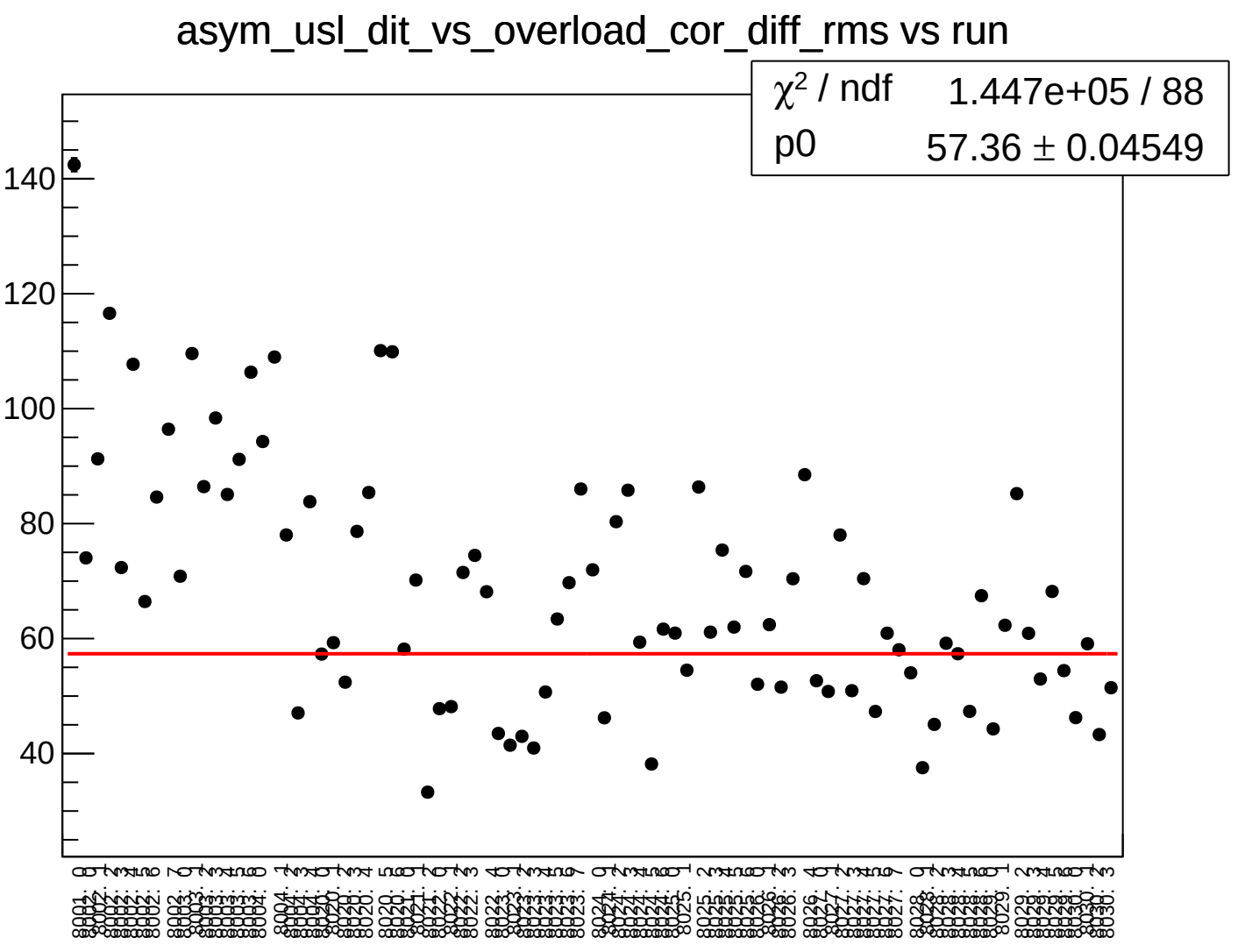

asym_usl_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.6 / 88
p0 0.009719 ± 0.04819
pull
Entries 89
Mean 85.66
Std Dev 0

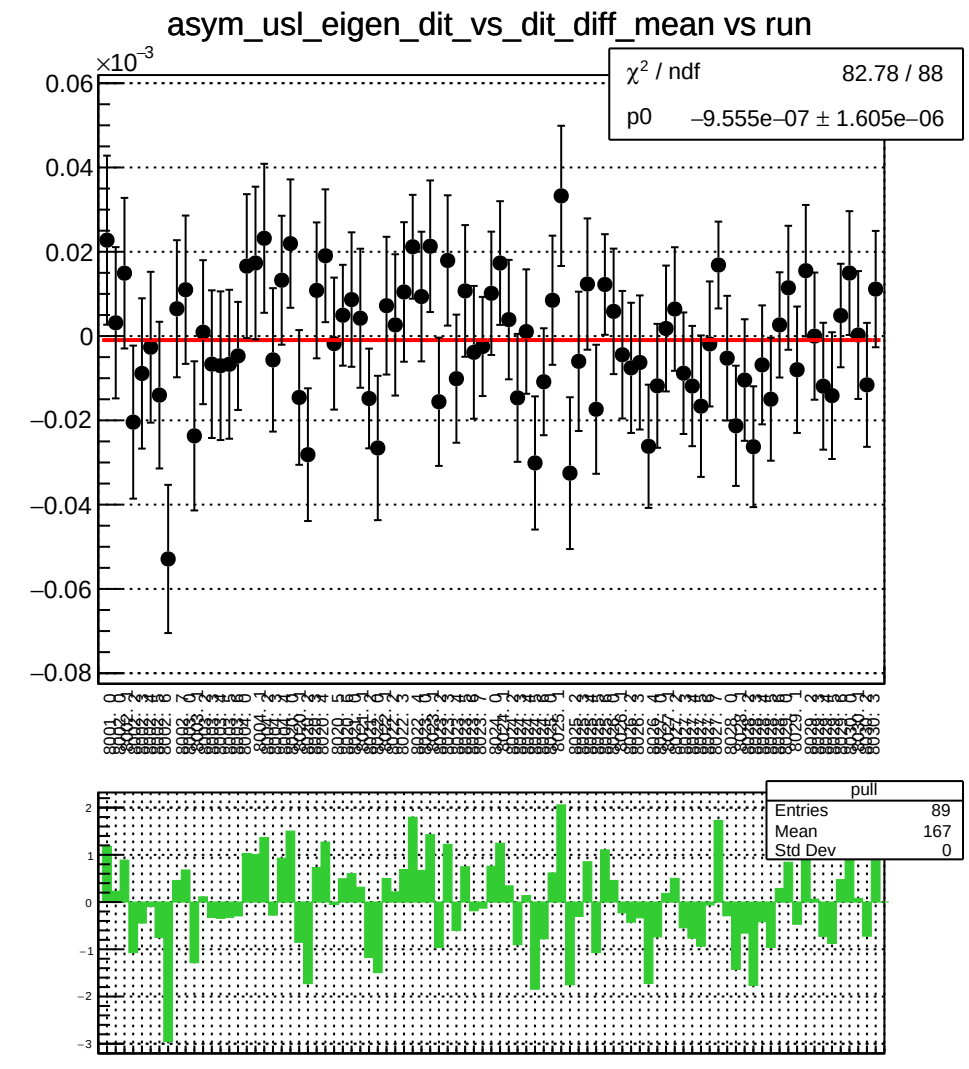

pull1D
Entries 89
Mean −0.03073
Std Dev 1.109

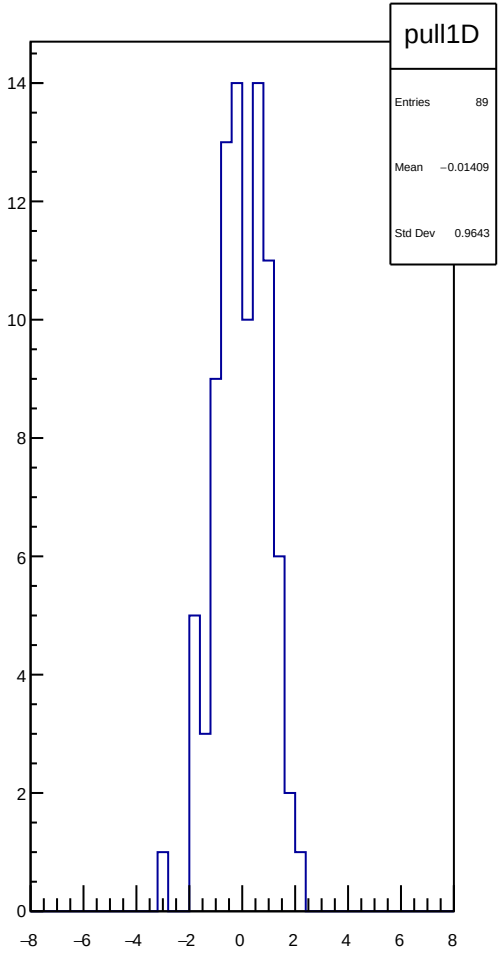

asym_usl_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.824e+05 / 88
p0 41.06 ± 0.03407
140
120
100
80
60
40
20

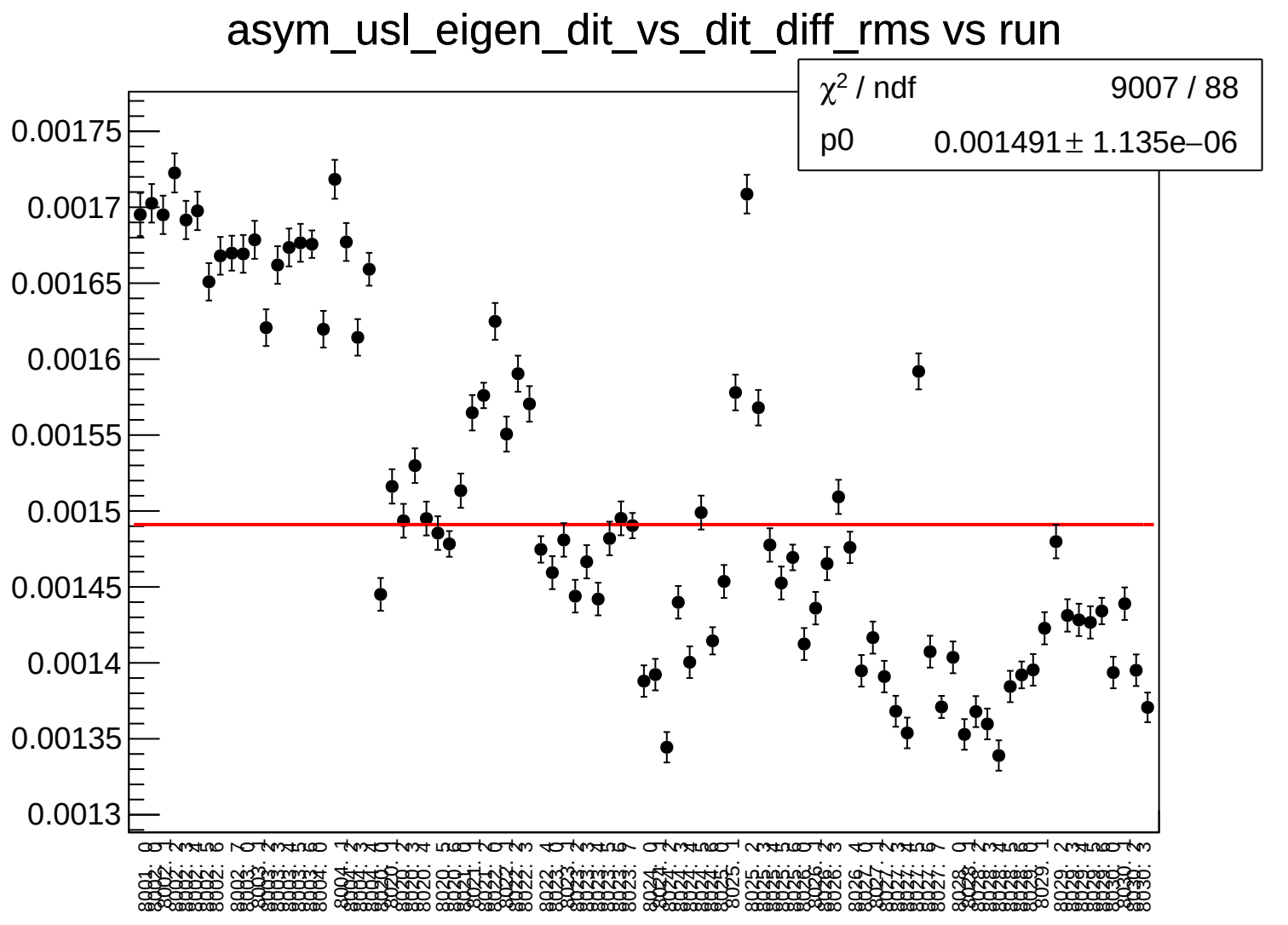

asym_usl_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 114.9 / 88
p0 −0.05544 ± 0.06433
pull
Entries 89
Mean 330.5
Std Dev 0

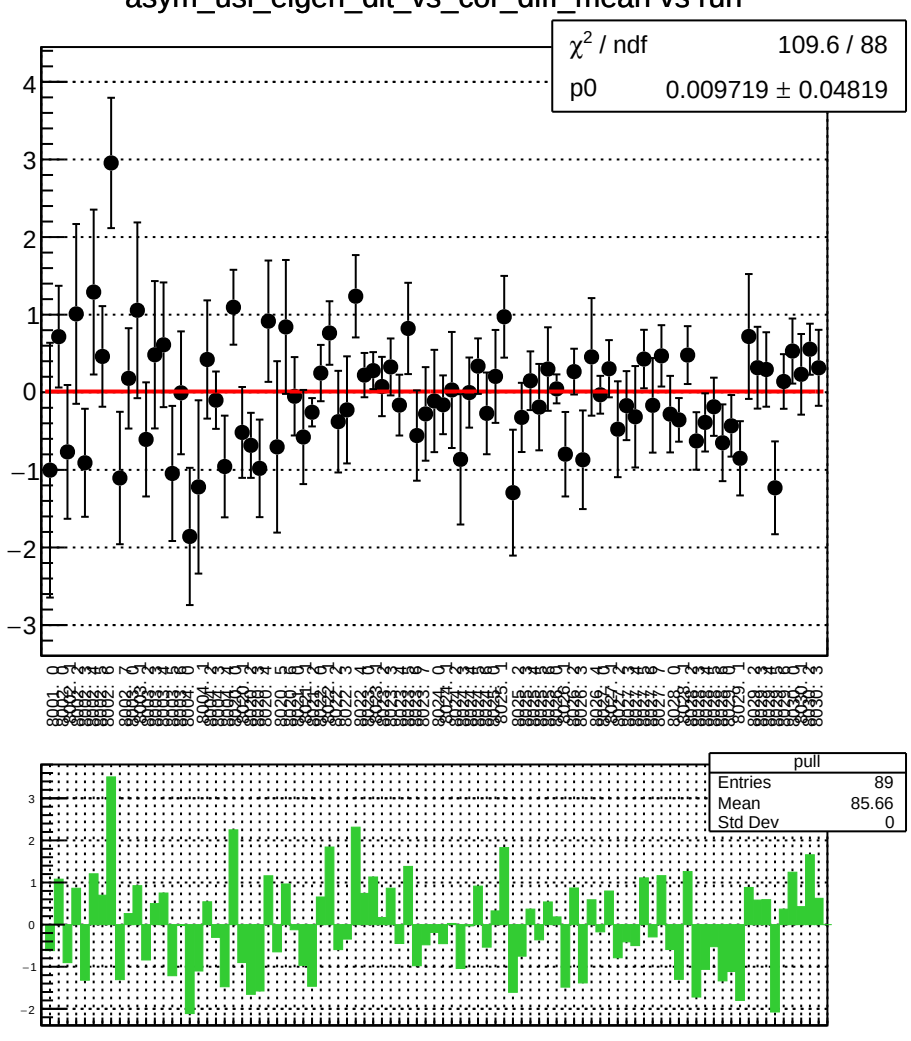

pull1D
Entries 89
Mean −0.01054
Std Dev 1.136

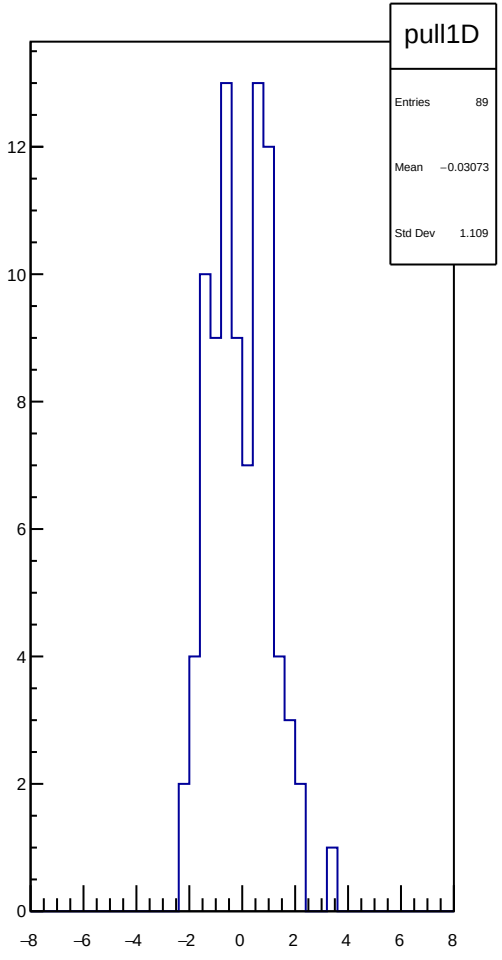

asym_usl_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.447e+05 / 88
p0 57.36 ± 0.04549
140
120
100
80
60
40

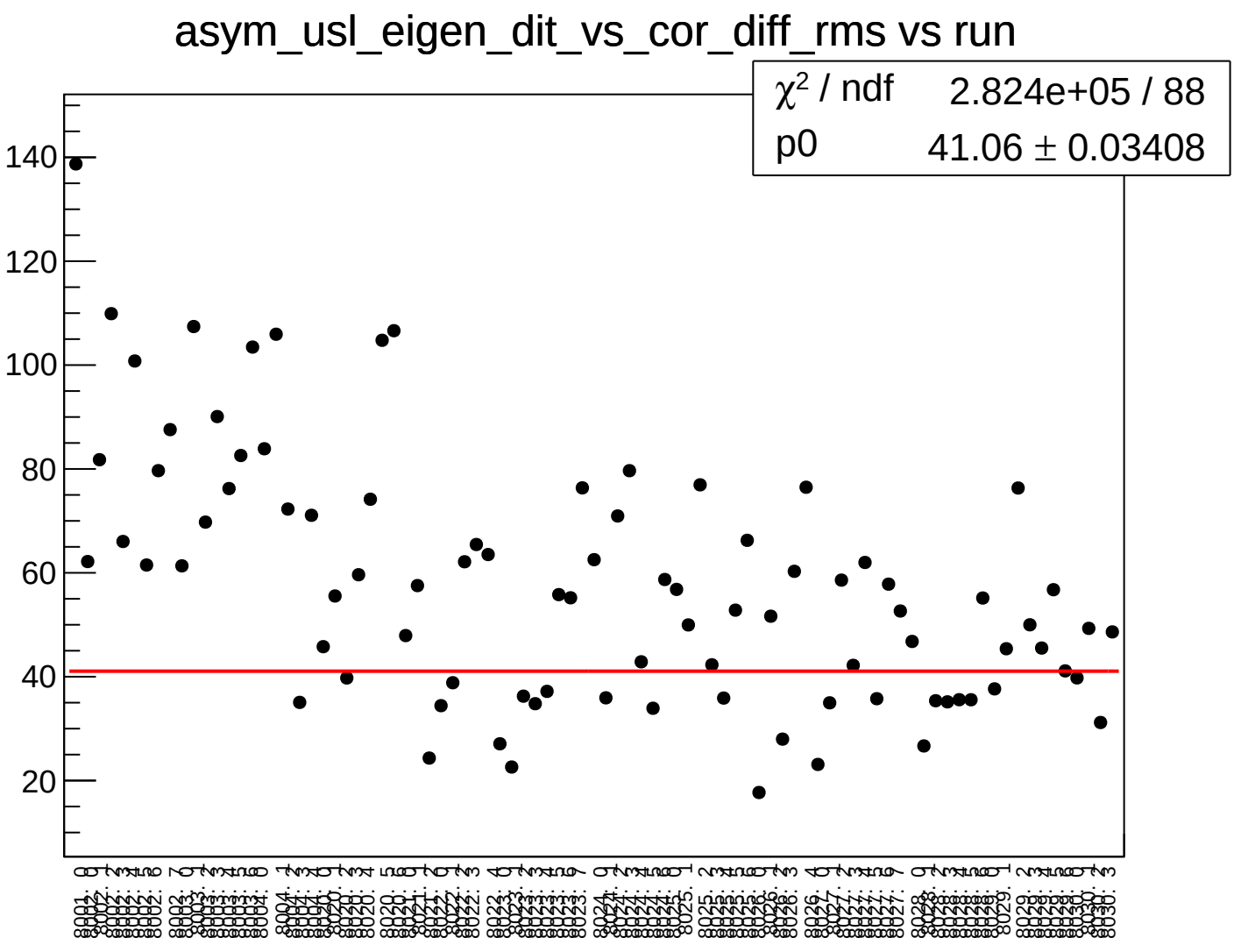

asym_usl_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 82.78 / 88
p0 −9.555e−07 ± 1.605e−06
pull
Entries 89
Mean 167
Std Dev 0

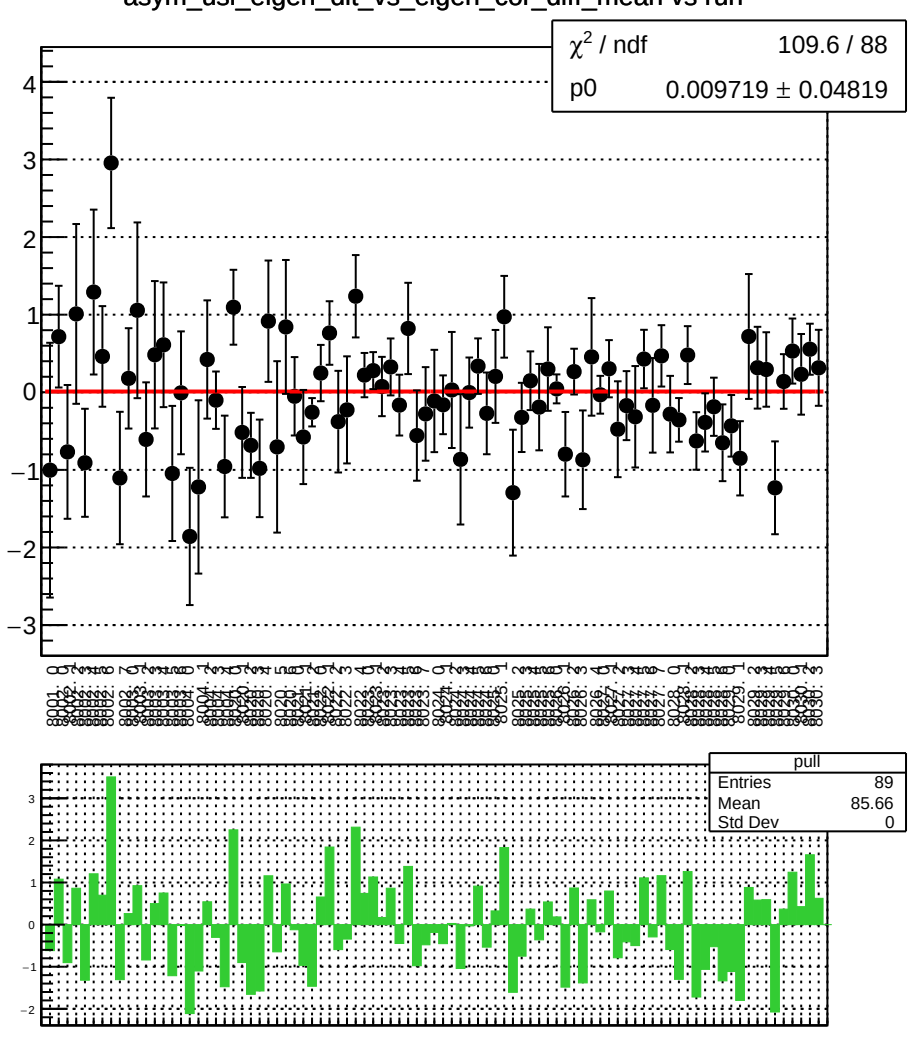

pull1D
Entries 89
Mean −0.01409
Std Dev 0.9643

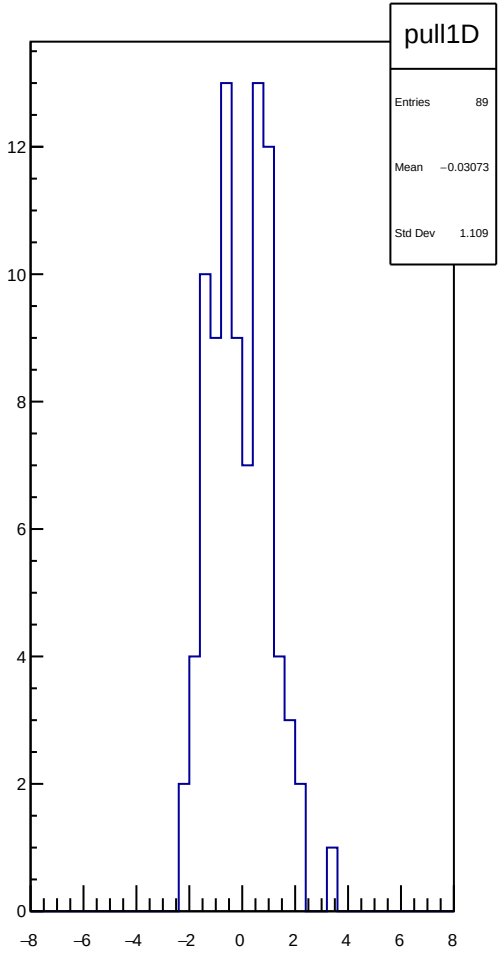

asym_usl_eigen_dit_vs_dit_diff_rms vs run
χ2 / ndf 9007 / 88
p0 0.001491 ± 1.135e−06
0.00175
0.0017
0.00165
0.0016
0.00155
0.0015
0.00145
0.0014
0.00135
0.0013

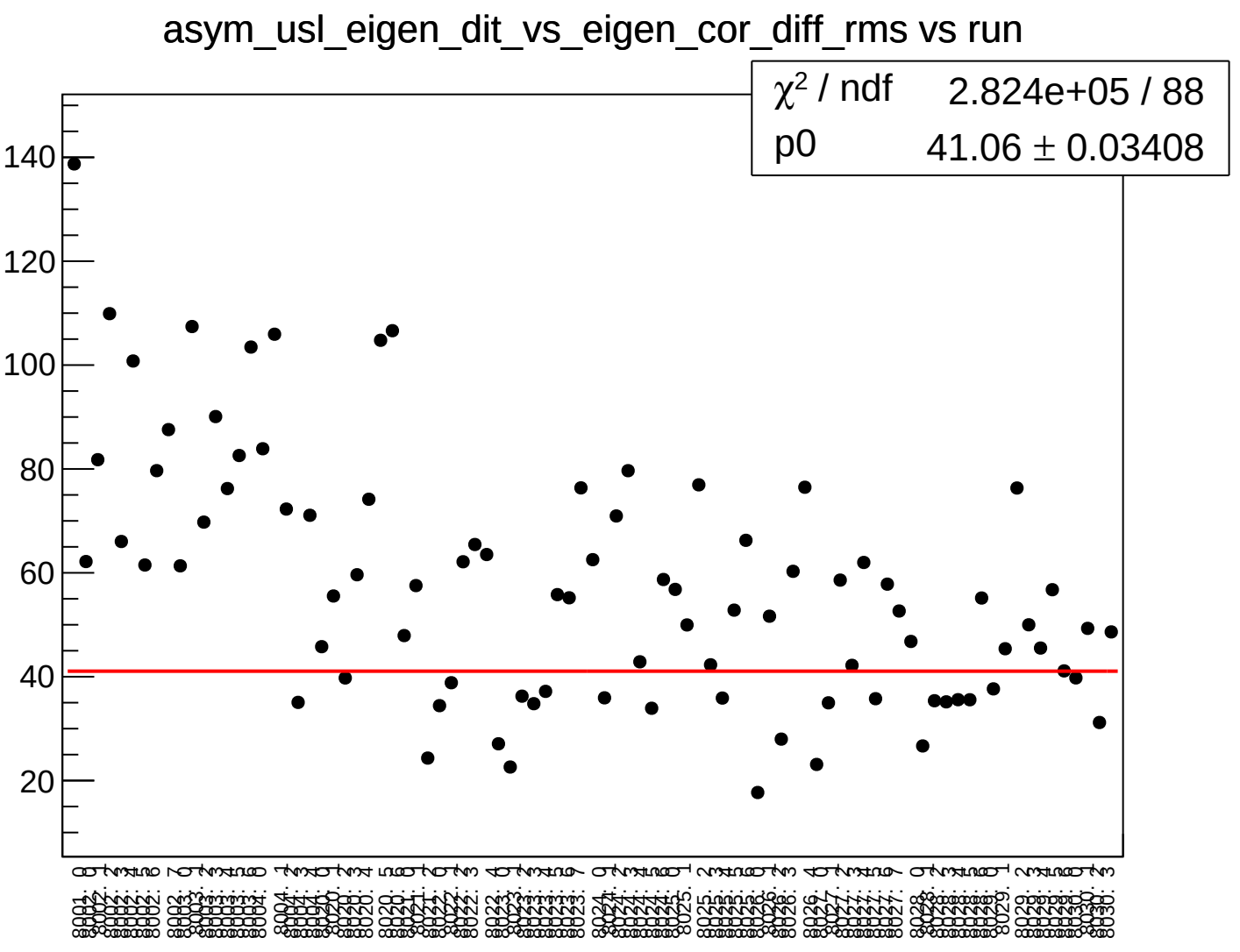

asym_usl_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 109.6 / 88
p0 0.009719 ± 0.04819
pull
Entries 89
Mean 85.66
Std Dev 0

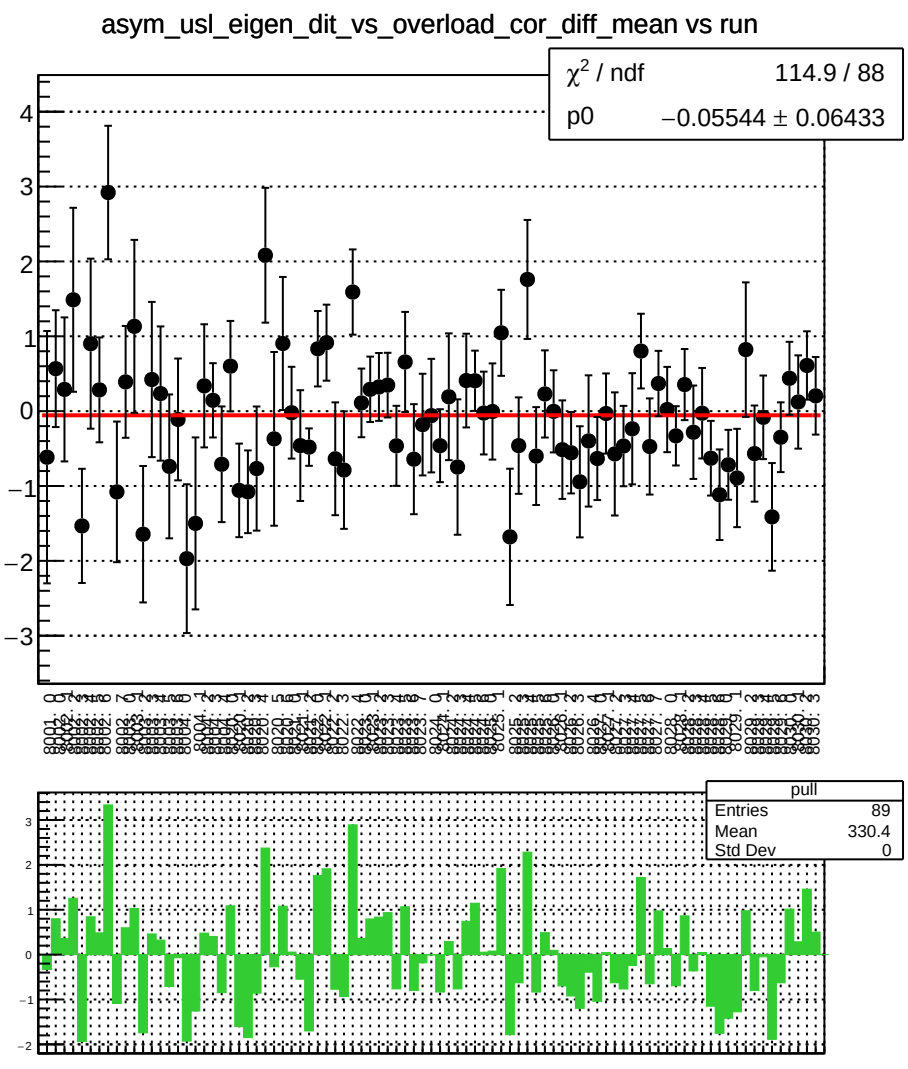

pull1D
Entries 89
Mean −0.03073
Std Dev 1.109

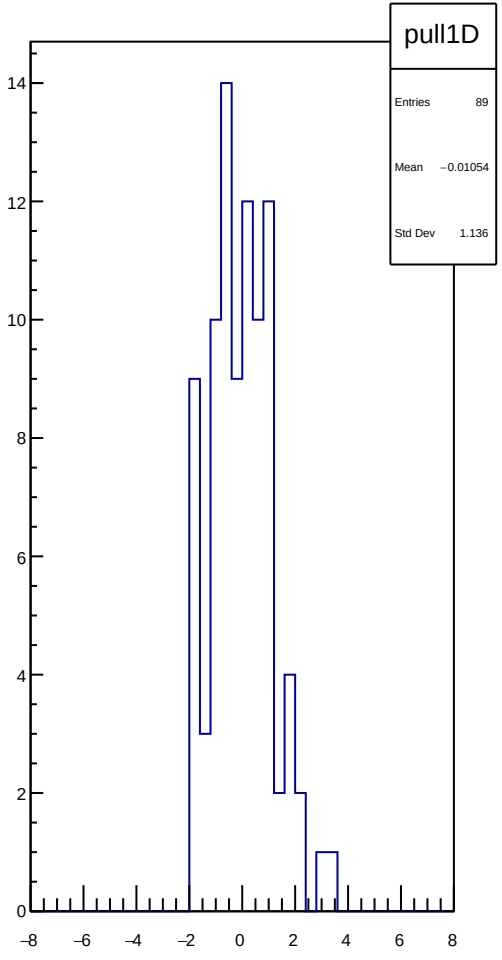

asym_usl_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.824e+05 / 88
p0 41.06 ± 0.03408
140
120
100
80
60
40
20

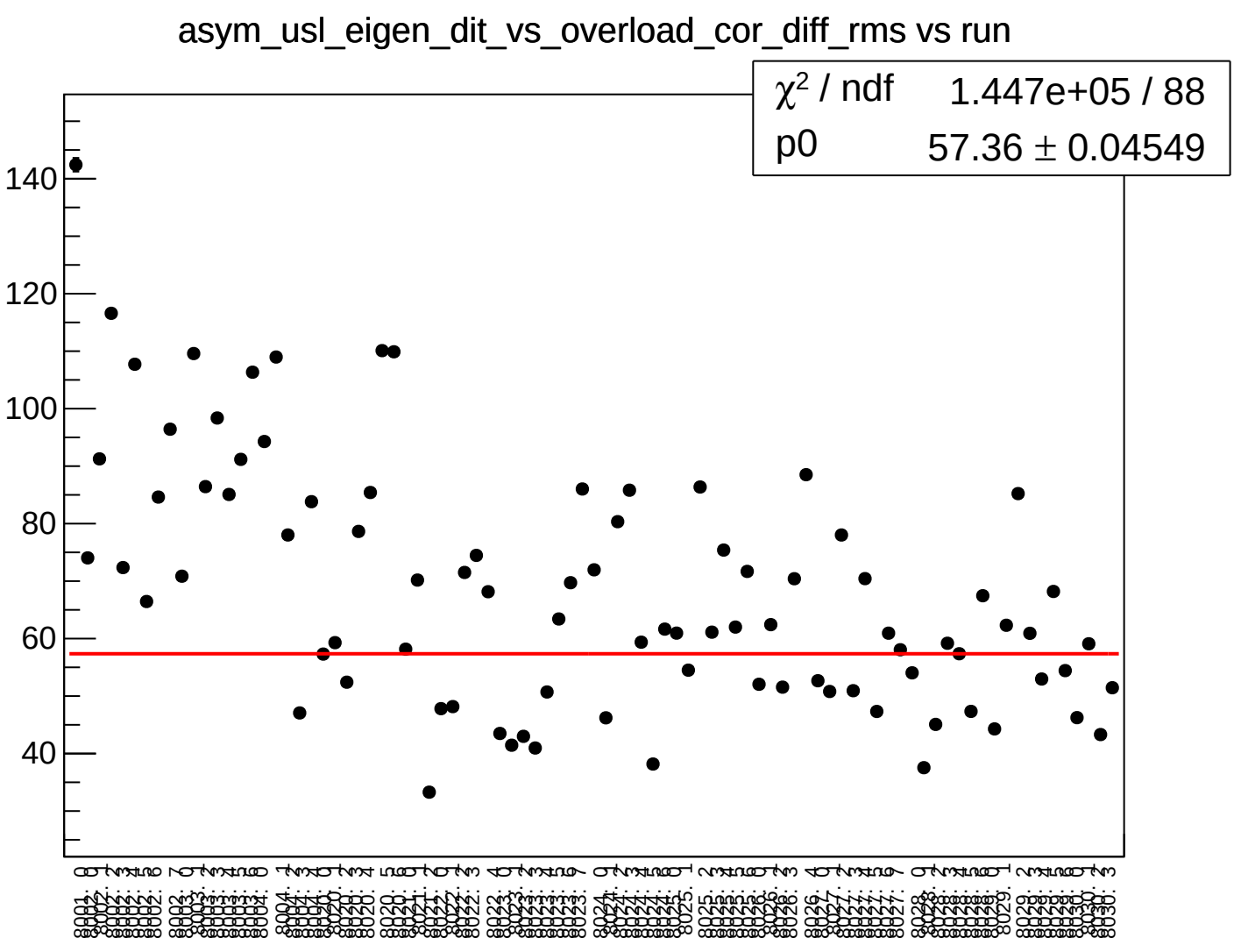

asym_usl_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.6 / 88
p0 0.009719 ± 0.04819
pull
Entries 89
Mean 85.66
Std Dev 0

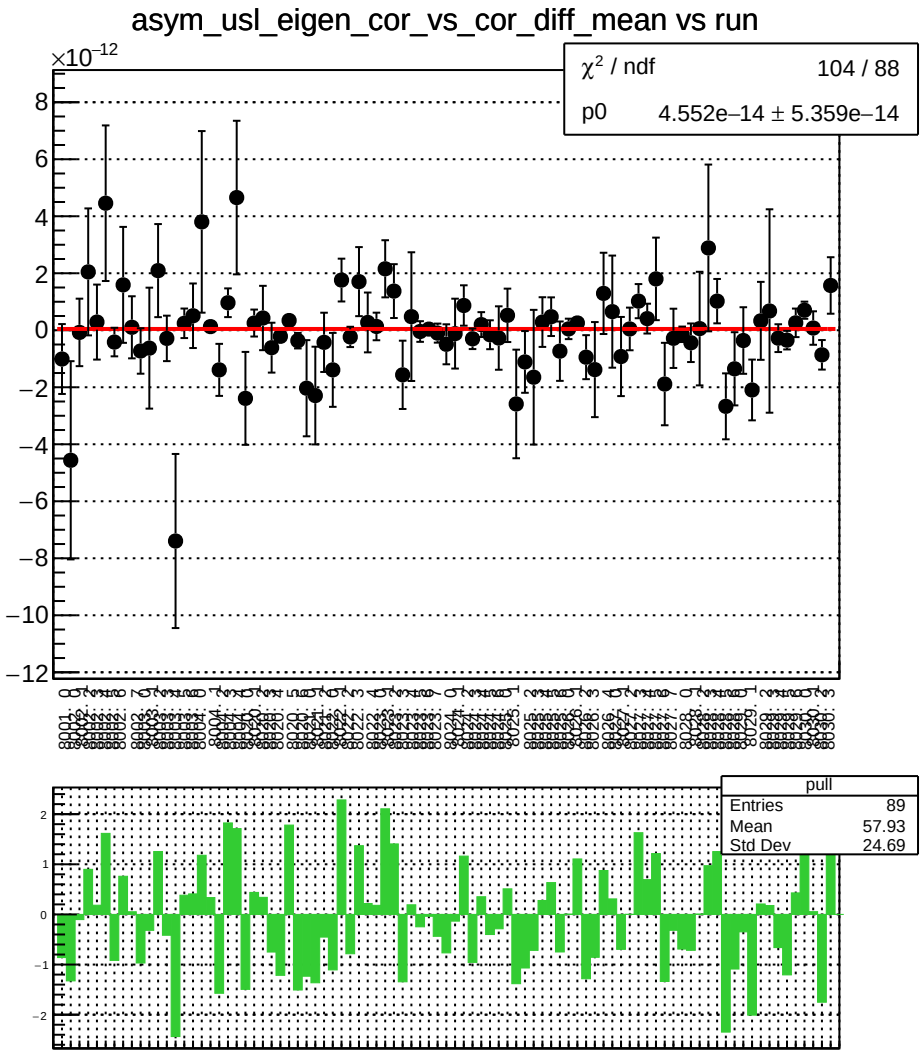

pull1D
Entries 89
Mean −0.03073
Std Dev 1.109

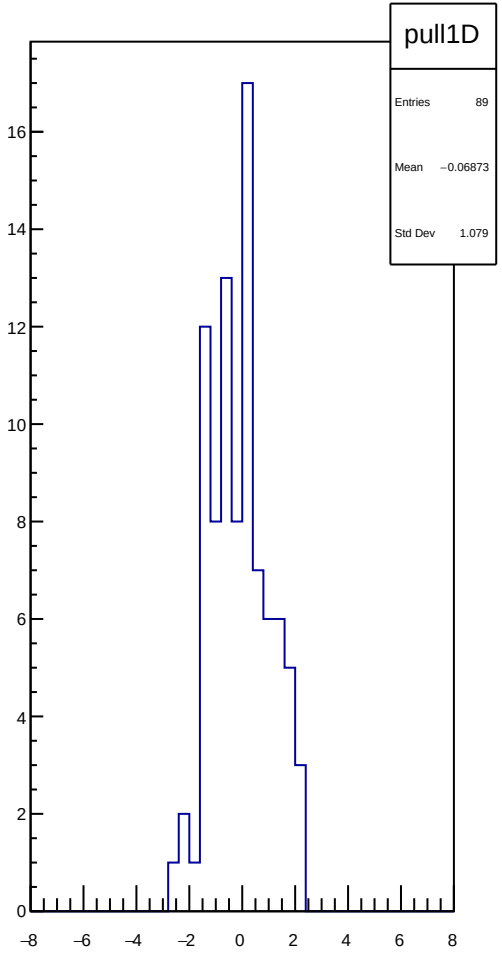

asym_usl_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.824e+05 / 88
p0 41.06 ± 0.03408
140
120
100
80
60
40
20

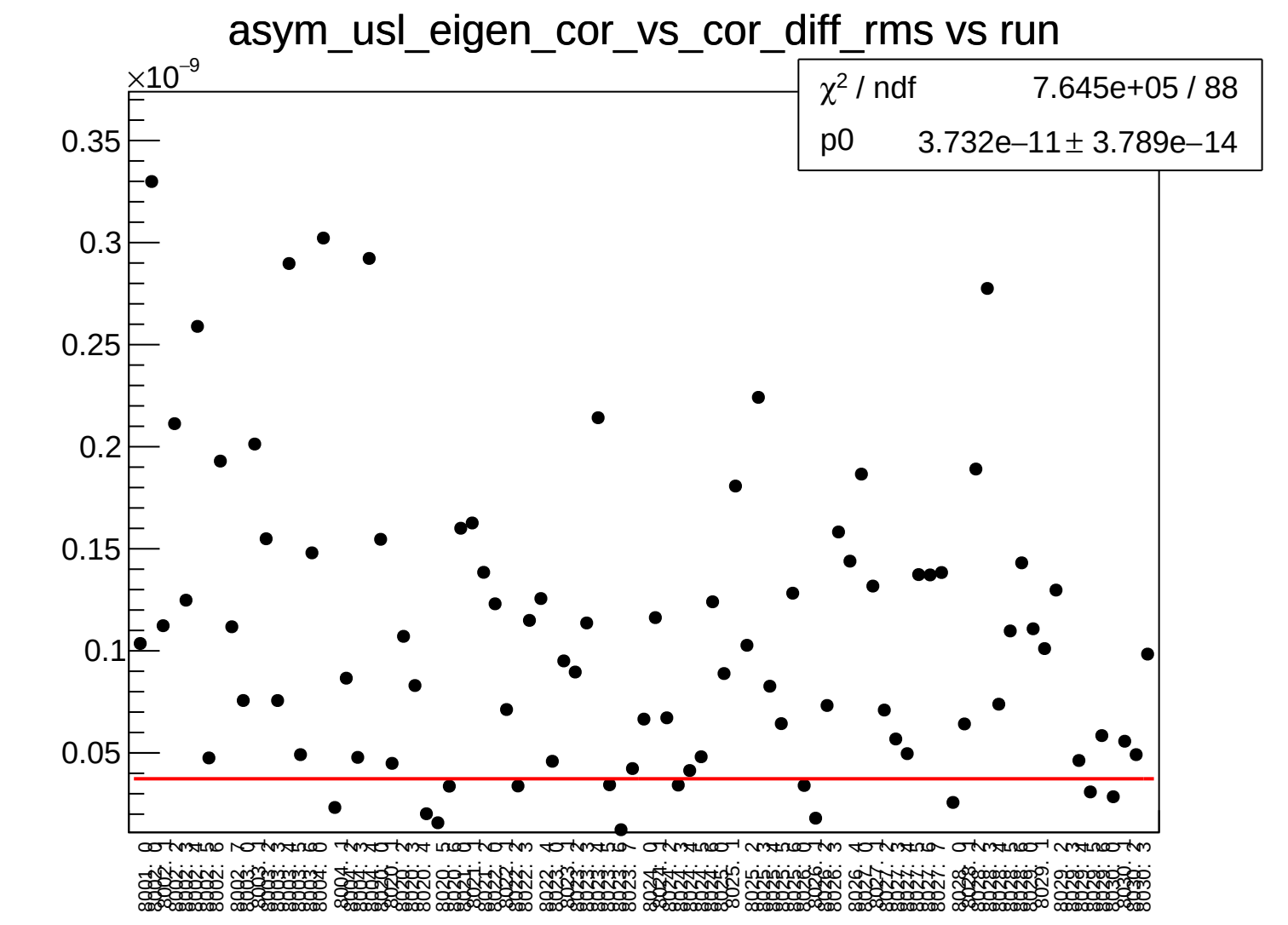

asym_usl_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 114.9 / 88
p0 −0.05544 ± 0.06433
pull
Entries 89
Mean 330.4
Std Dev 0

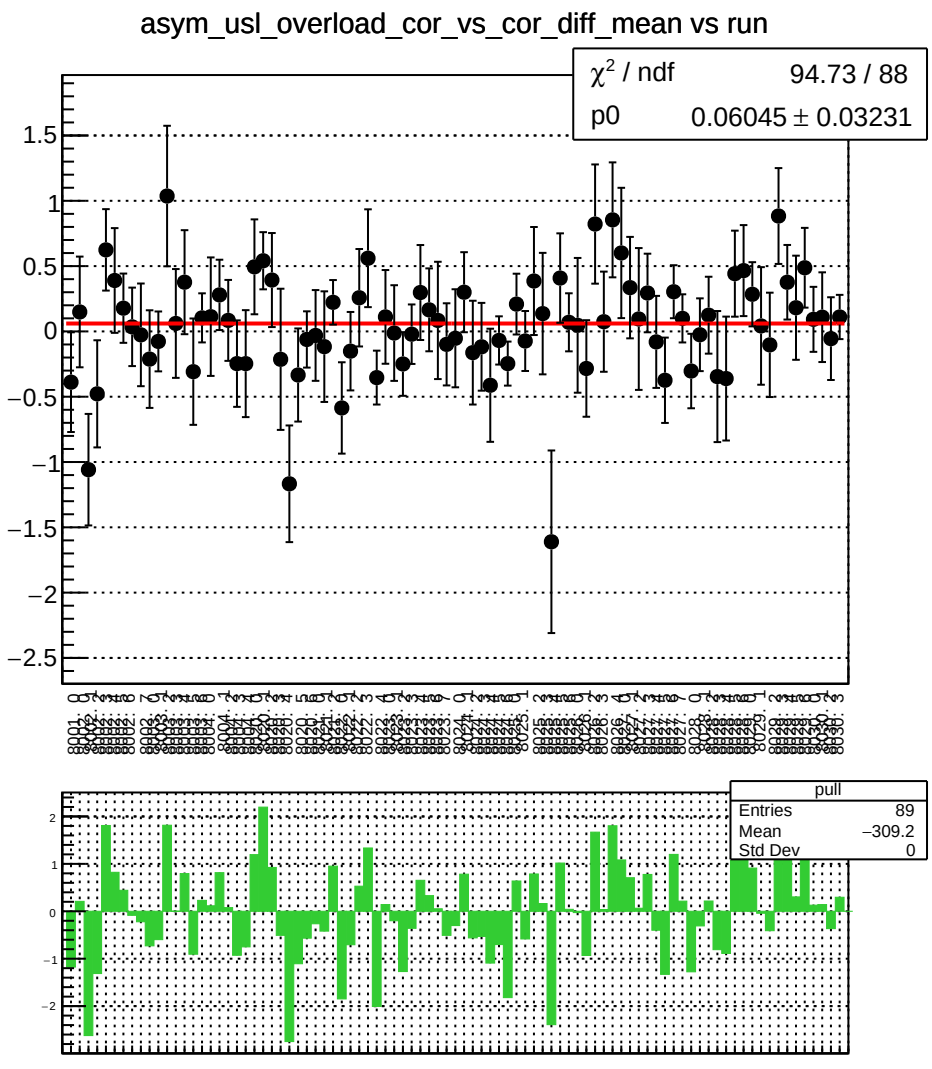

pull1D
Entries 89
Mean −0.01054
Std Dev 1.136

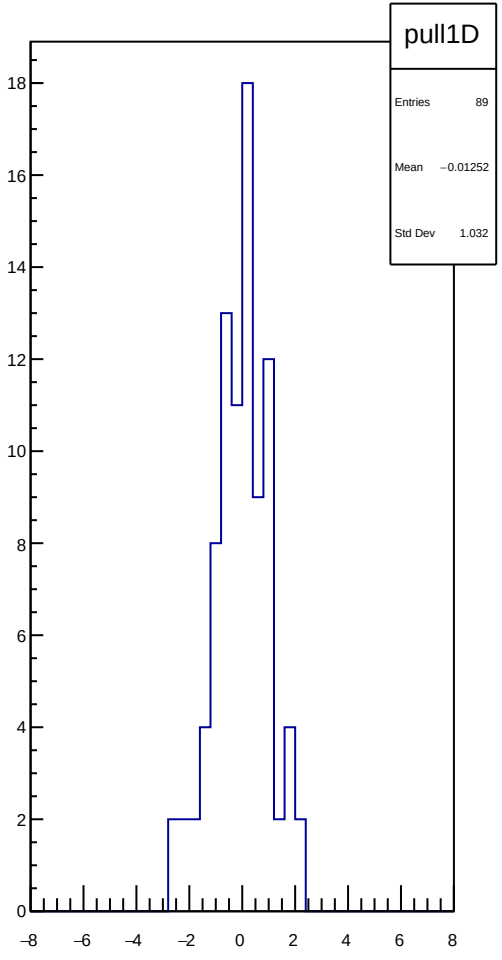

asym_usl_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.447e+05 / 88
p0 57.36 ± 0.04549
140
120
100
80
60
40

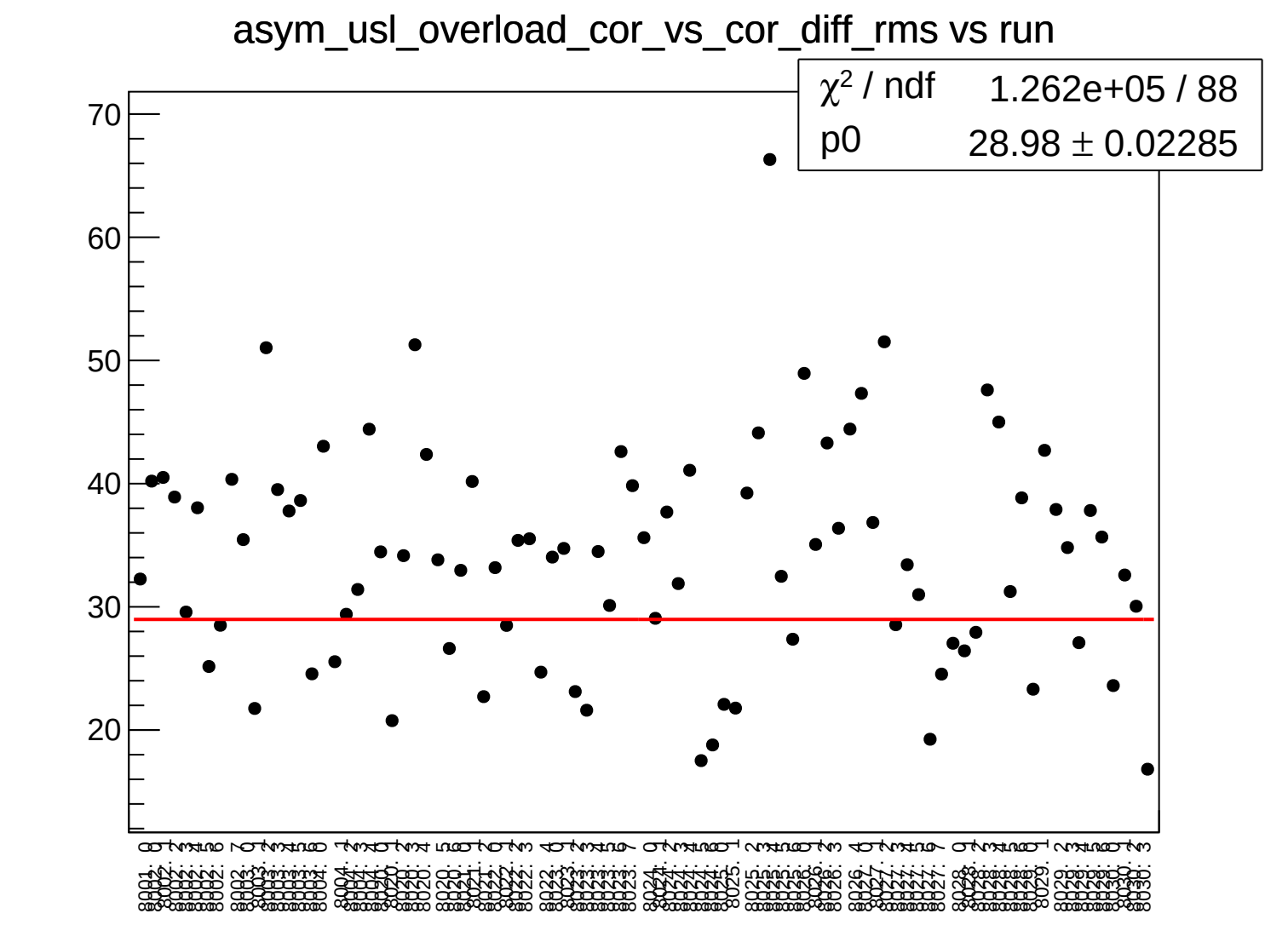

asym_usl_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 104 / 88
p0 4.552e−14 ± 5.359e−14
pull
Entries 89
Mean 57.93
Std Dev 24.69

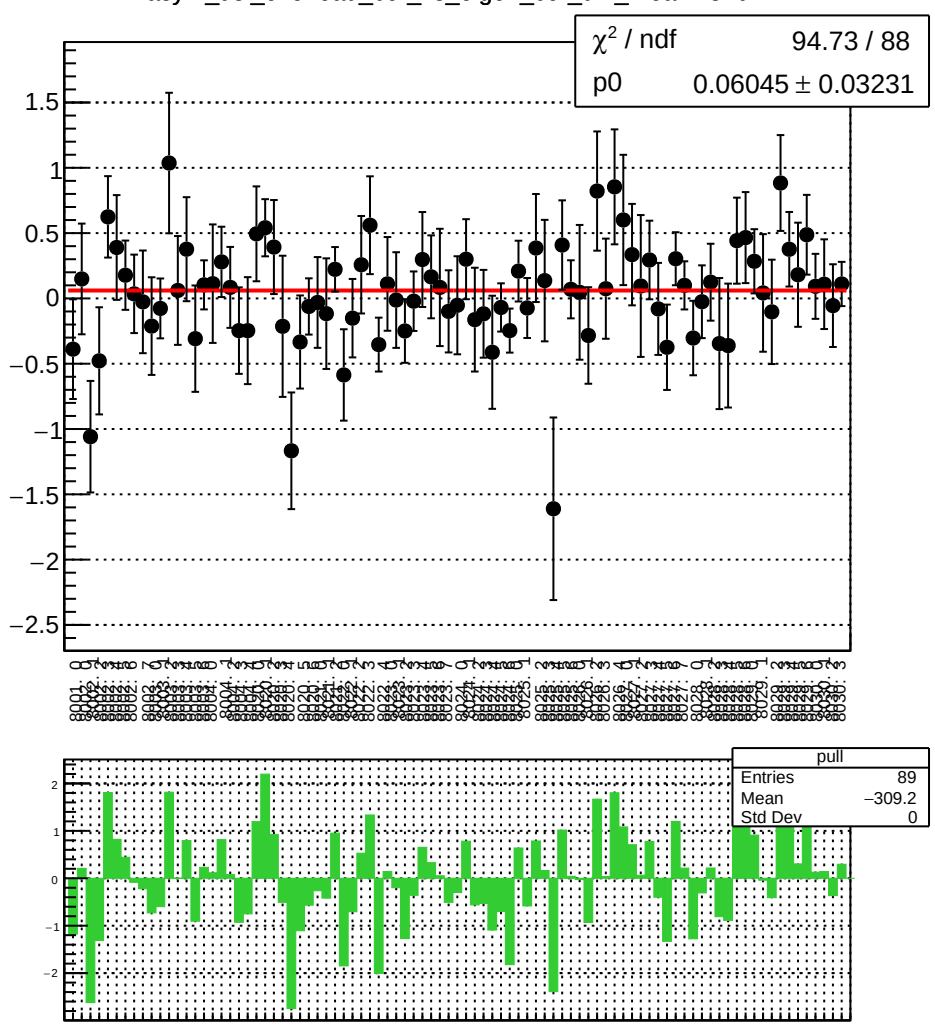

pull1D
Entries 89
Mean −0.06873
Std Dev 1.079

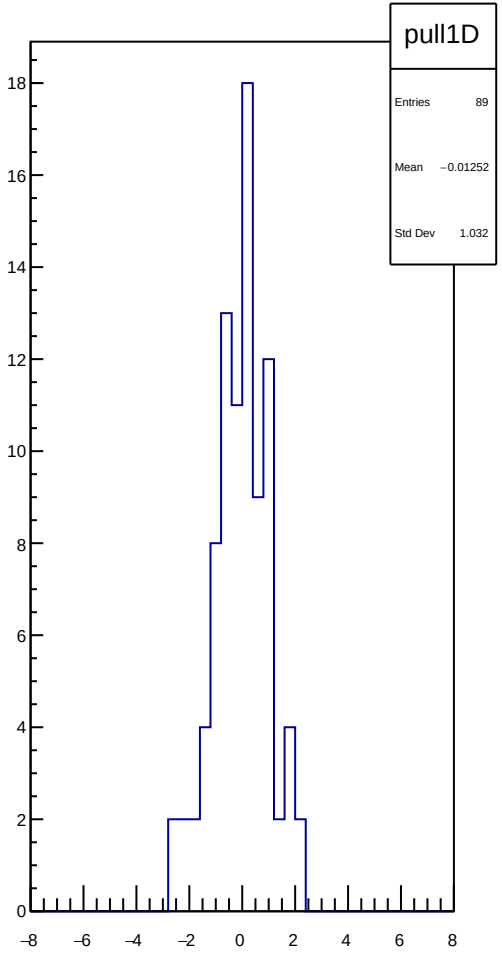

asym_usl_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.645e+05 / 88
p0 3.732e−11 ± 3.789e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

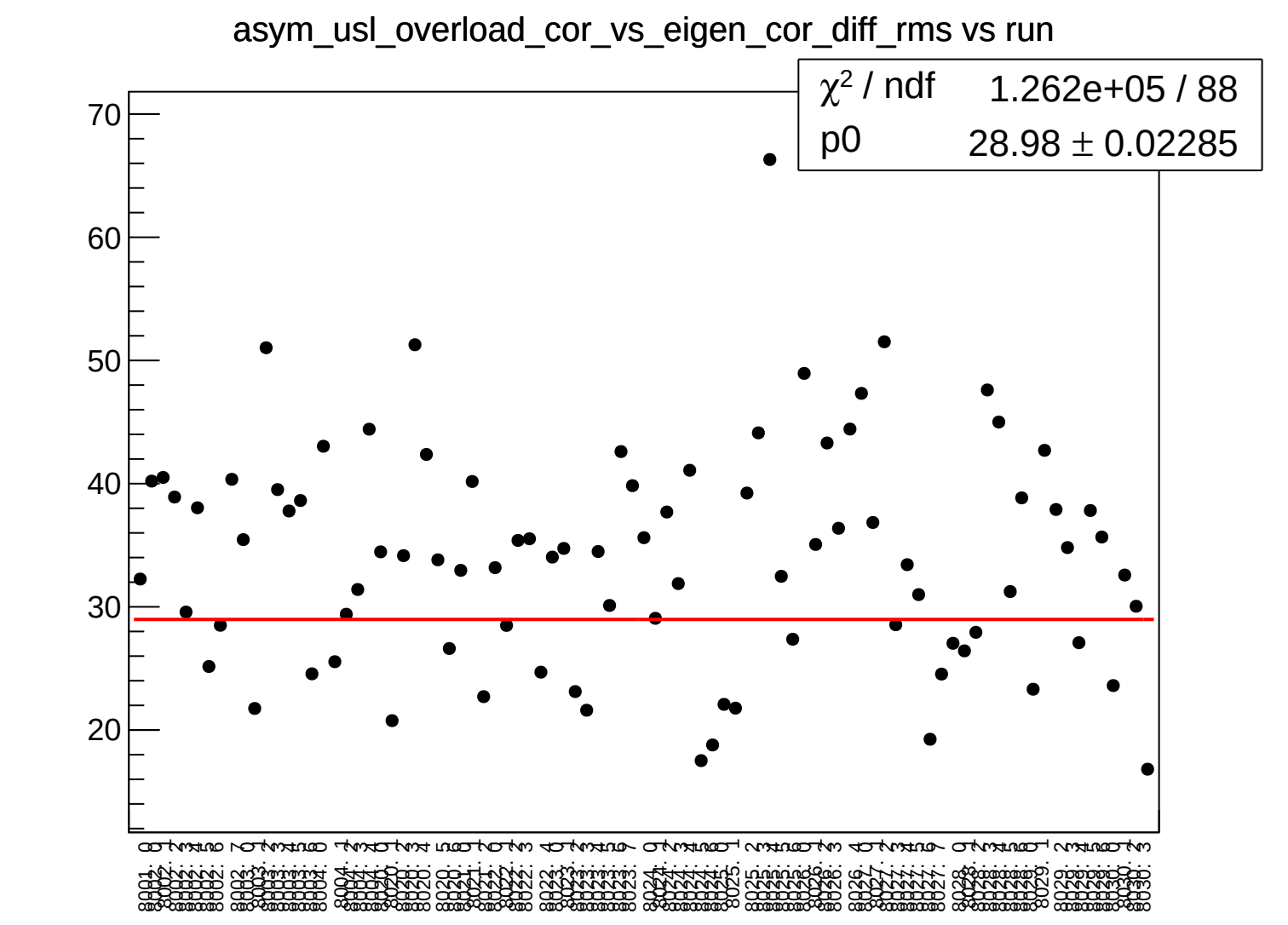

asym_usl_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 94.73 / 88
p0 0.06045 ± 0.03231
pull
Entries 89
Mean −309.2
Std Dev 0

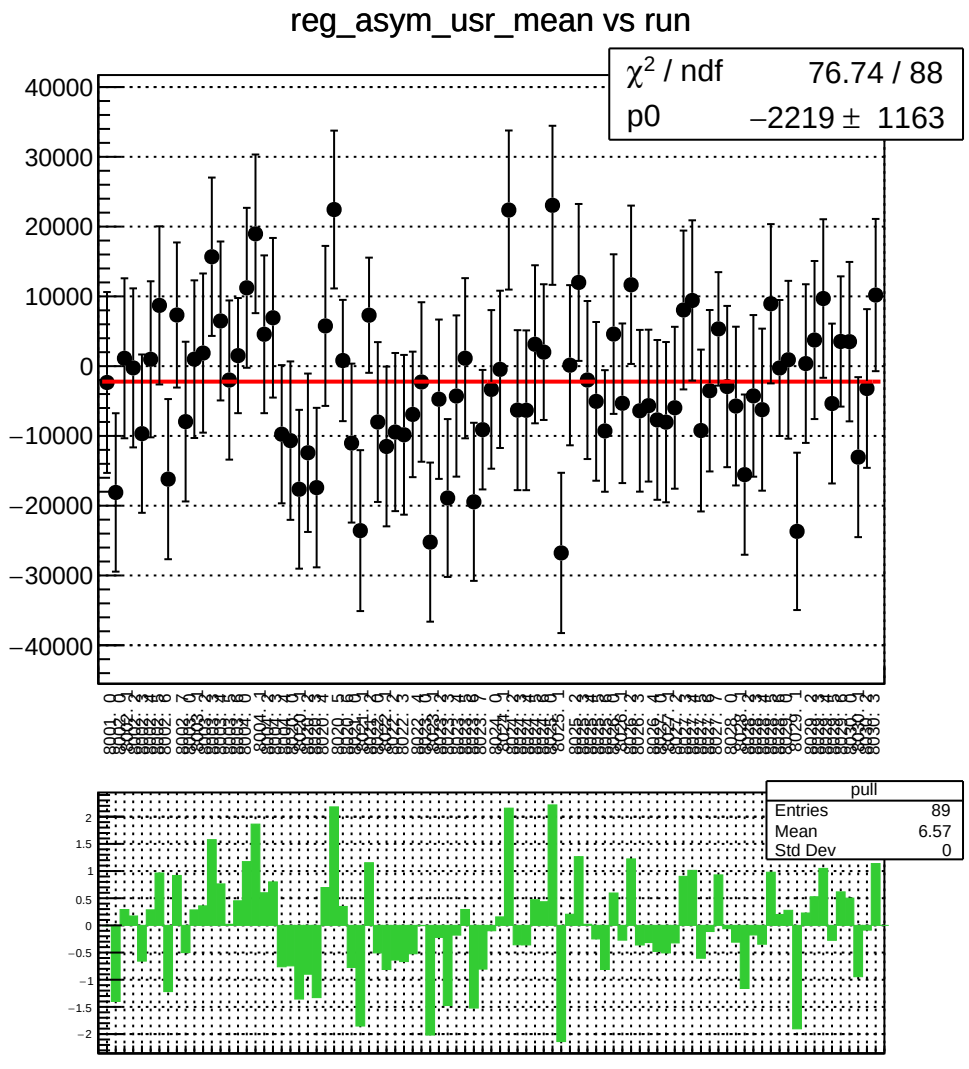

pull1D
Entries 89
Mean −0.01252
Std Dev 1.032

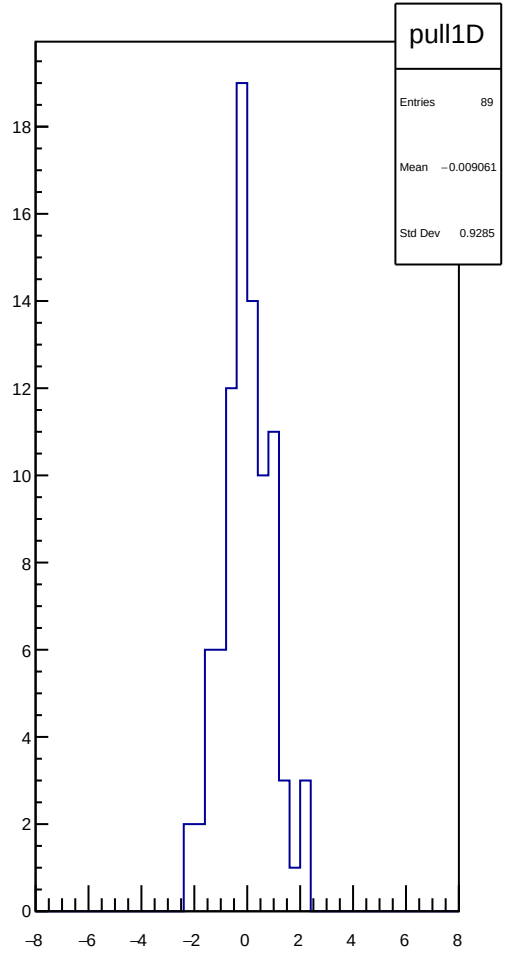

asym_usl_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.262e+05 / 88
p0 28.98 ± 0.02285
70
60
50
40
30
20

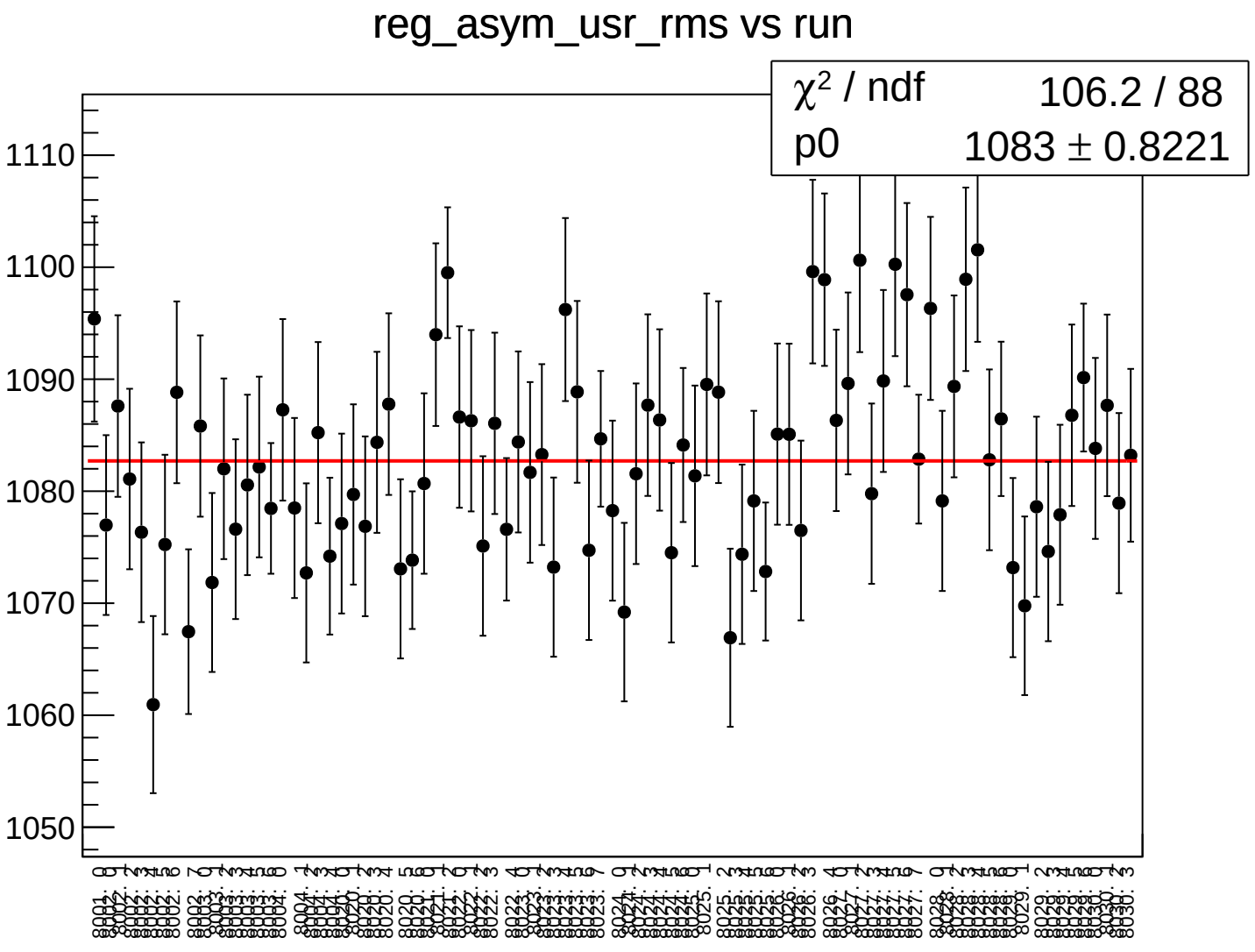

asym_usl_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.73 / 88
p0 0.06045 ± 0.03231
pull
Entries 89
Mean −309.2
Std Dev 0

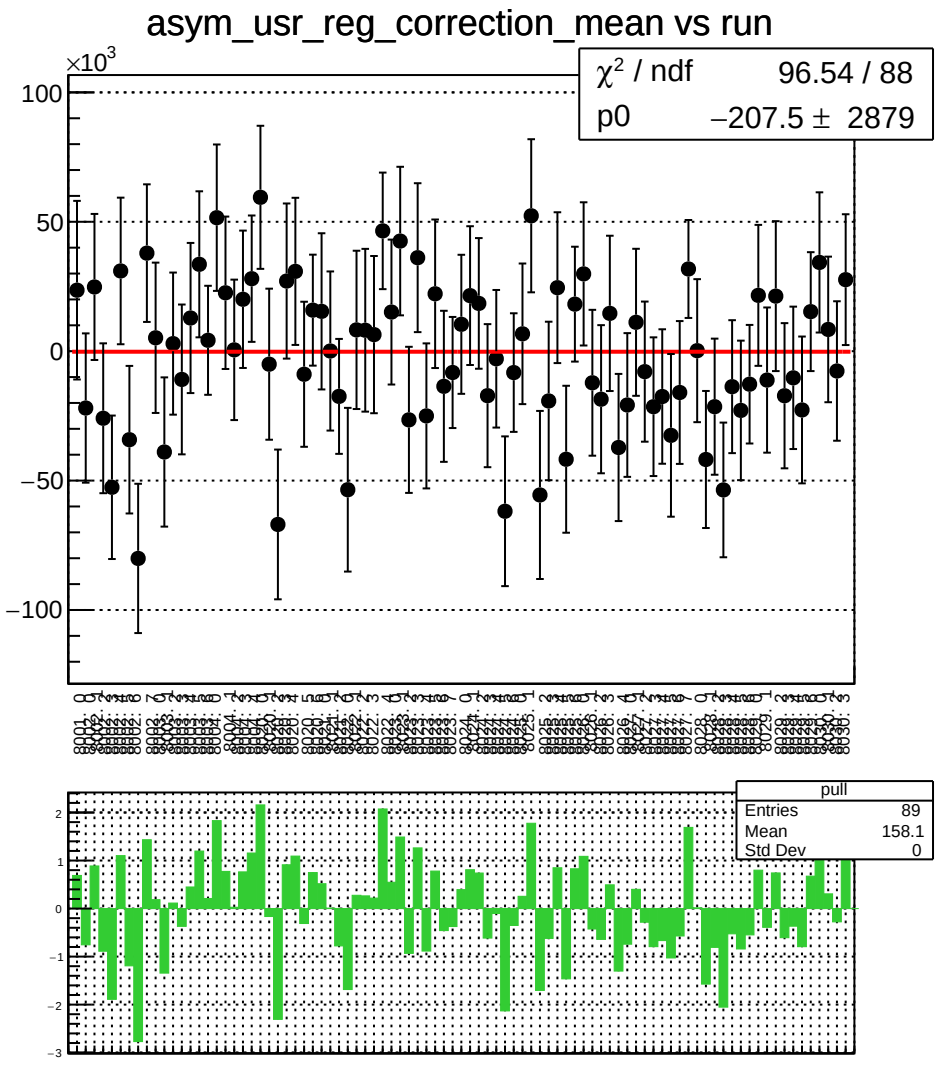

pull1D
Entries 89
Mean −0.01252
Std Dev 1.032

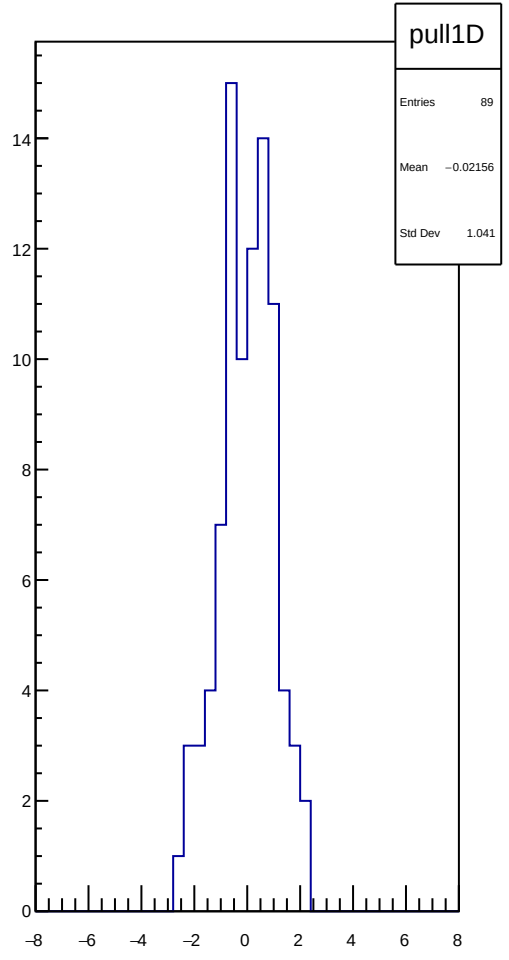

asym_usl_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.262e+05 / 88
p0 28.98 ± 0.02285
70
60
50
40
30
20

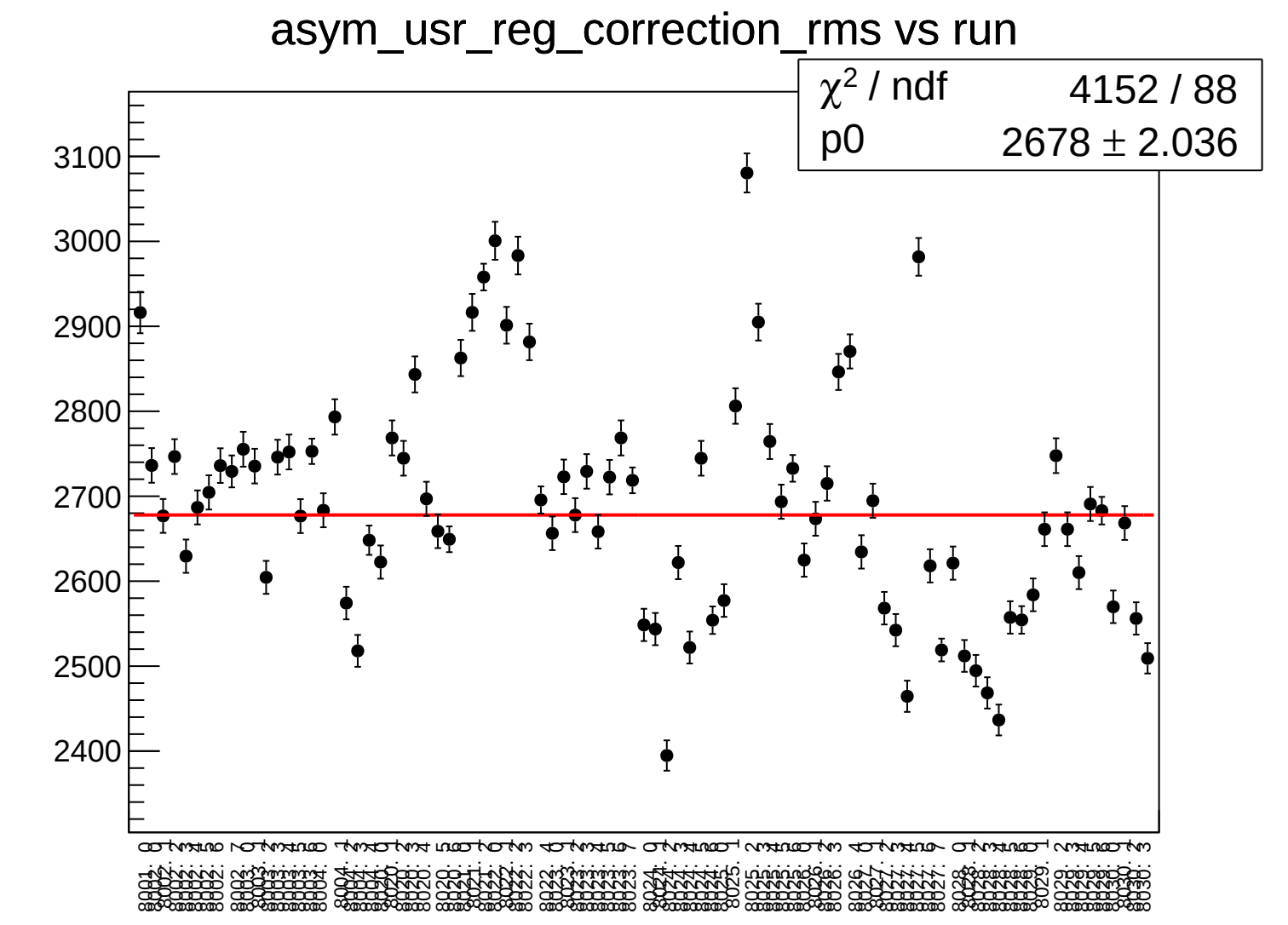

reg_asym_usr_mean vs run
χ² / ndf 76.74 / 88
p0 −2219 ± 1163
pull
Entries 89
Mean 6.57
Std Dev 0

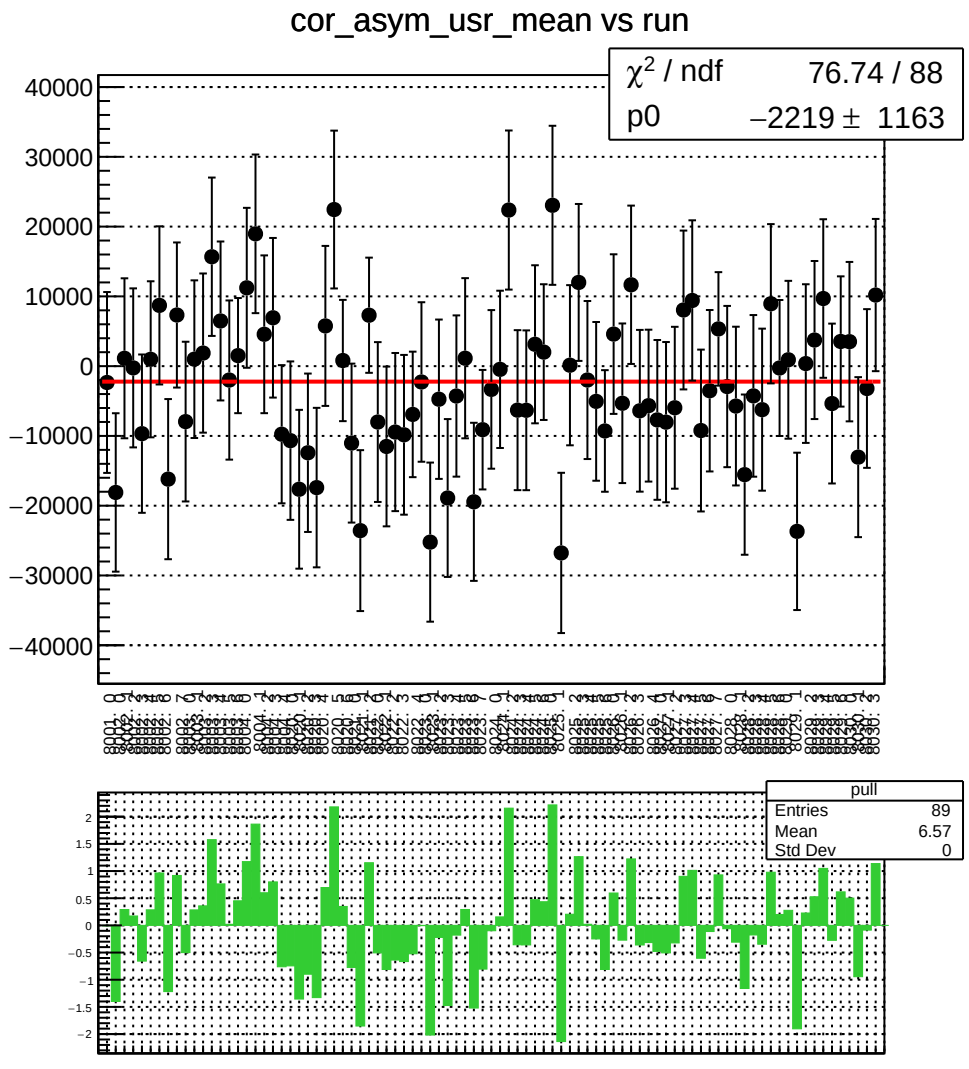

pull1D
Entries 89
Mean −0.009061
Std Dev 0.9285

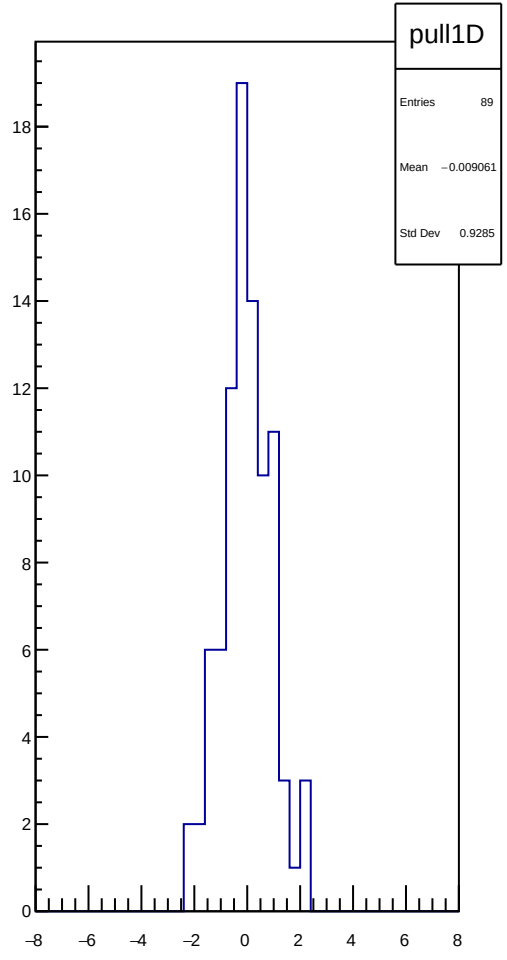

reg_asym_usr_rms vs run
χ² / ndf 106.2 / 88
p0 1083 ± 0.8221
1110
1100
1090
1080
1070
1060
1050

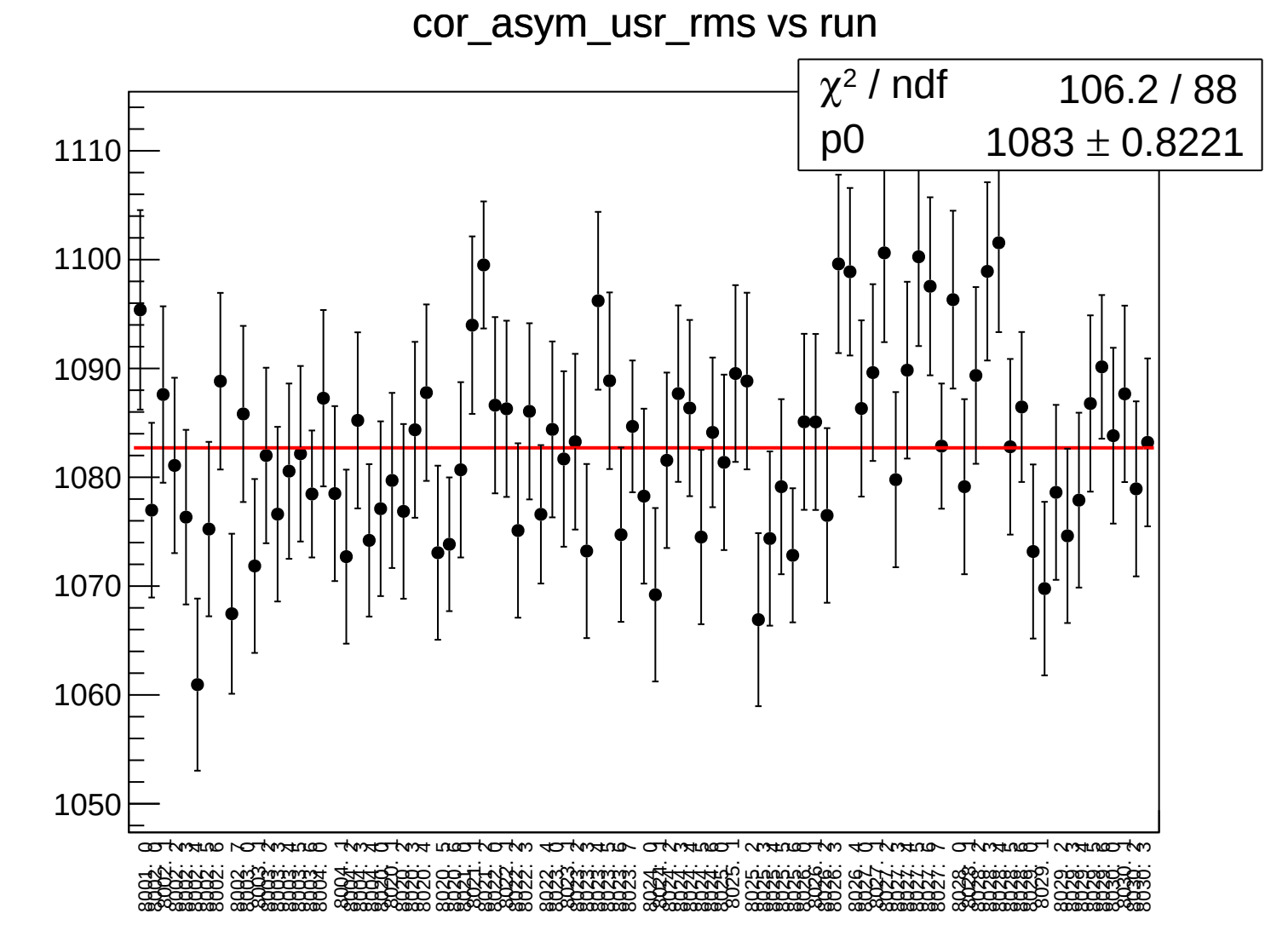

asym_usr_reg_correction_mean vs run
×10^3
χ² / ndf 96.54 / 88
p0 −207.5 ± 2879
100
50
0
−50
−100
pull
Entries 89
Mean 158.1
Std Dev 0
2
1
0
−1
−2
−3

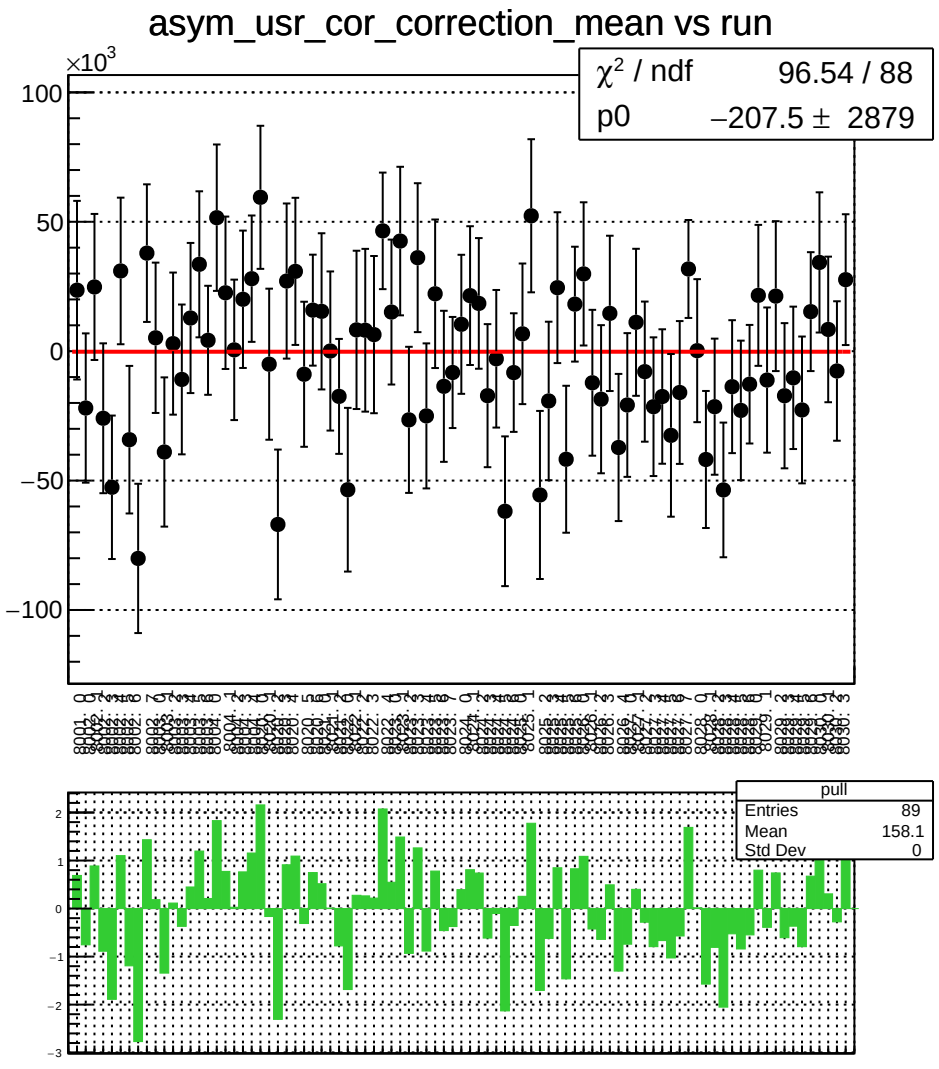

pull1D
Entries 89
Mean −0.02156
Std Dev 1.041
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

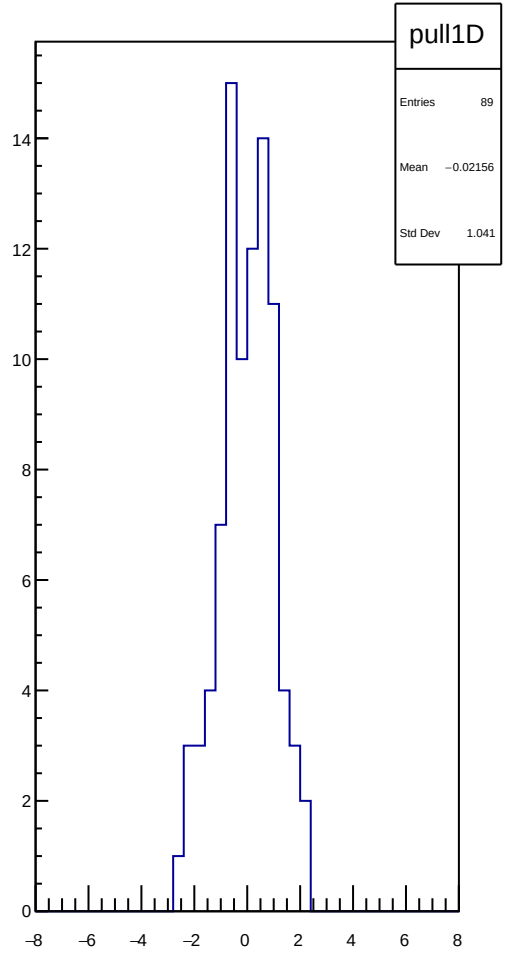

asym_usr_reg_correction_rms vs run
χ^2 / ndf 4152 / 88
p0 2678 ± 2.036
3100
3000
2900
2800
2700
2600
2500
2400

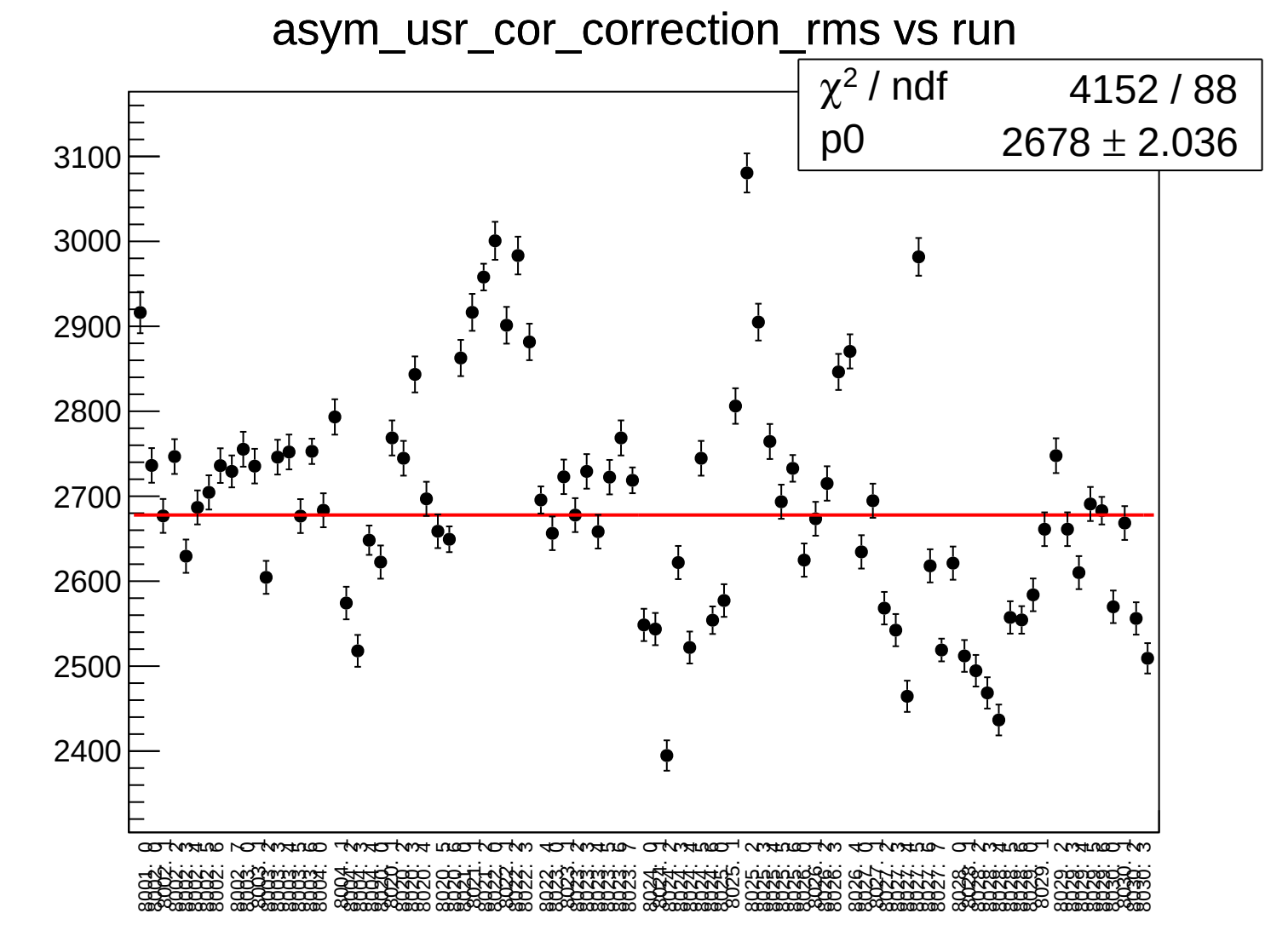

cor_asym_usr_mean vs run
χ² / ndf 76.74 / 88
p0 −2219 ± 1163
pull
Entries 89
Mean 6.57
Std Dev 0

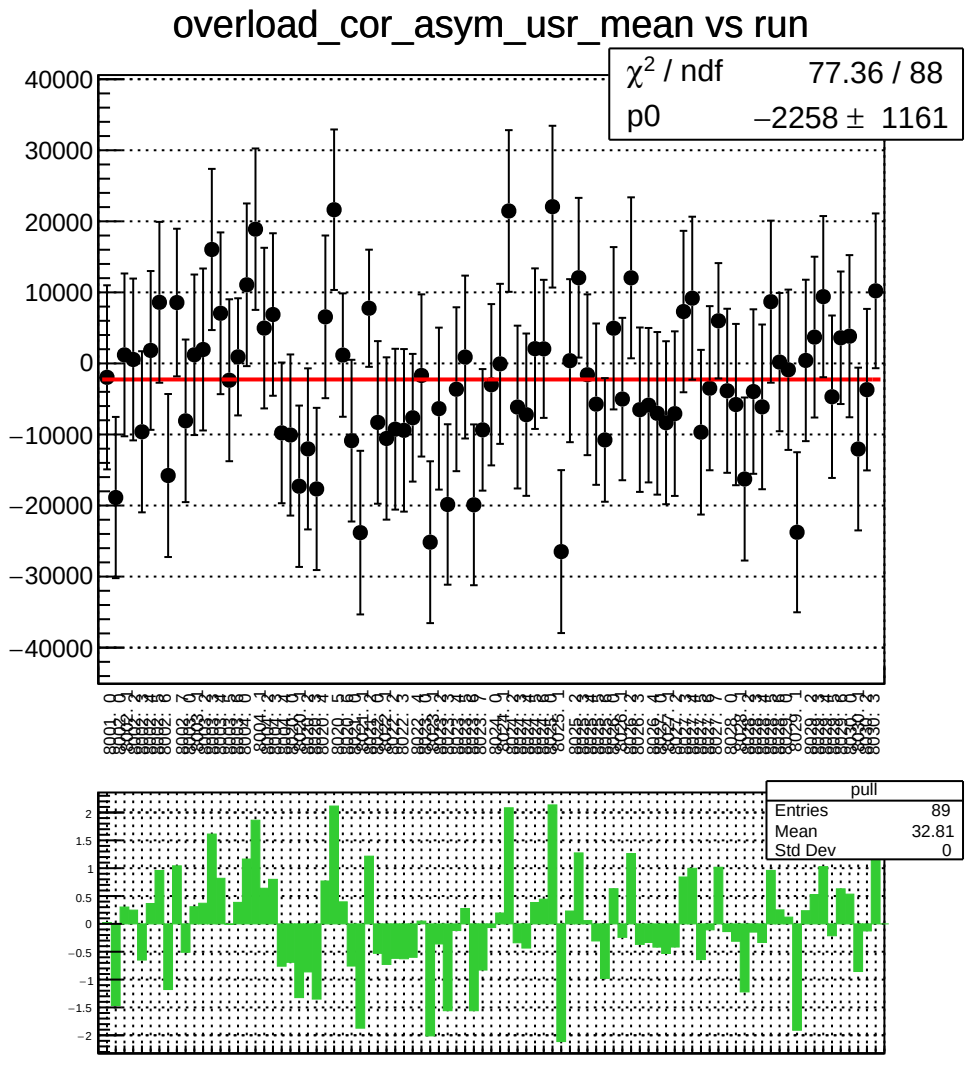

pull1D
Entries 89
Mean −0.009061
Std Dev 0.9285

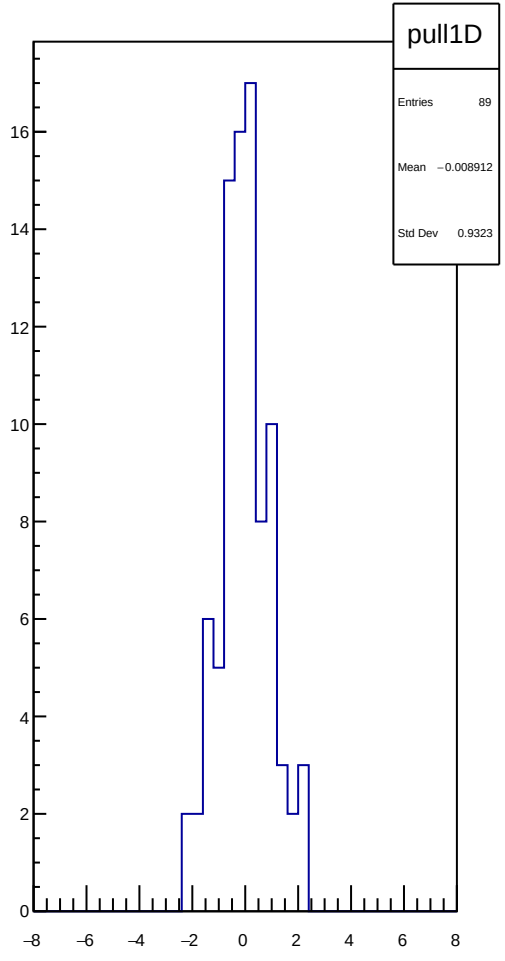

cor_asym_usr_rms vs run
χ² / ndf 106.2 / 88
p0 1083 ± 0.8221
1110
1100
1090
1080
1070
1060
1050

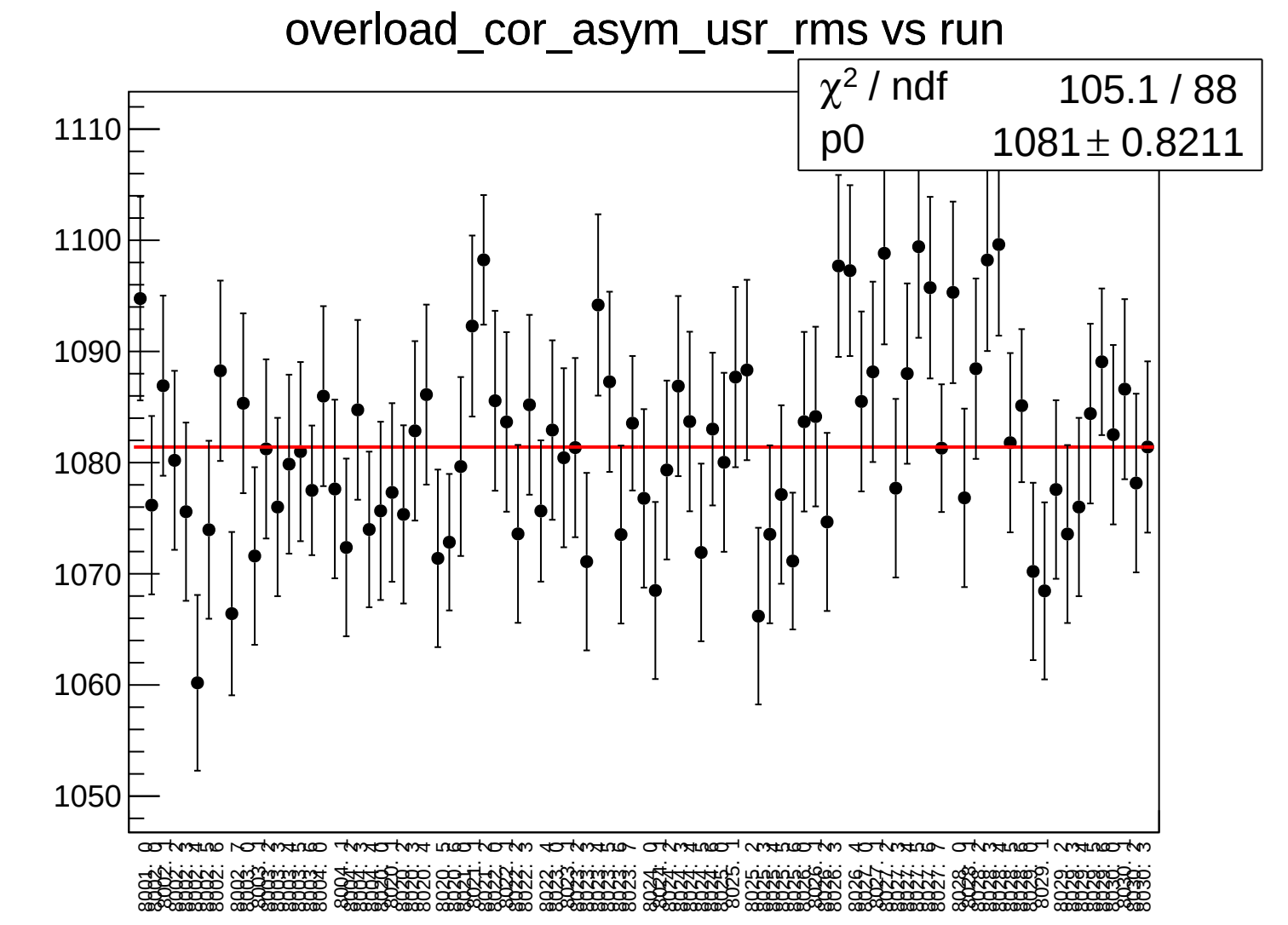

asym_usr_cor_correction_mean vs run
×10^3
χ² / ndf 96.54 / 88
p0 −207.5 ± 2879
100
50
0
−50
−100
pull
Entries 89
Mean 158.1
Std Dev 0
2
1
0
−1
−2
−3

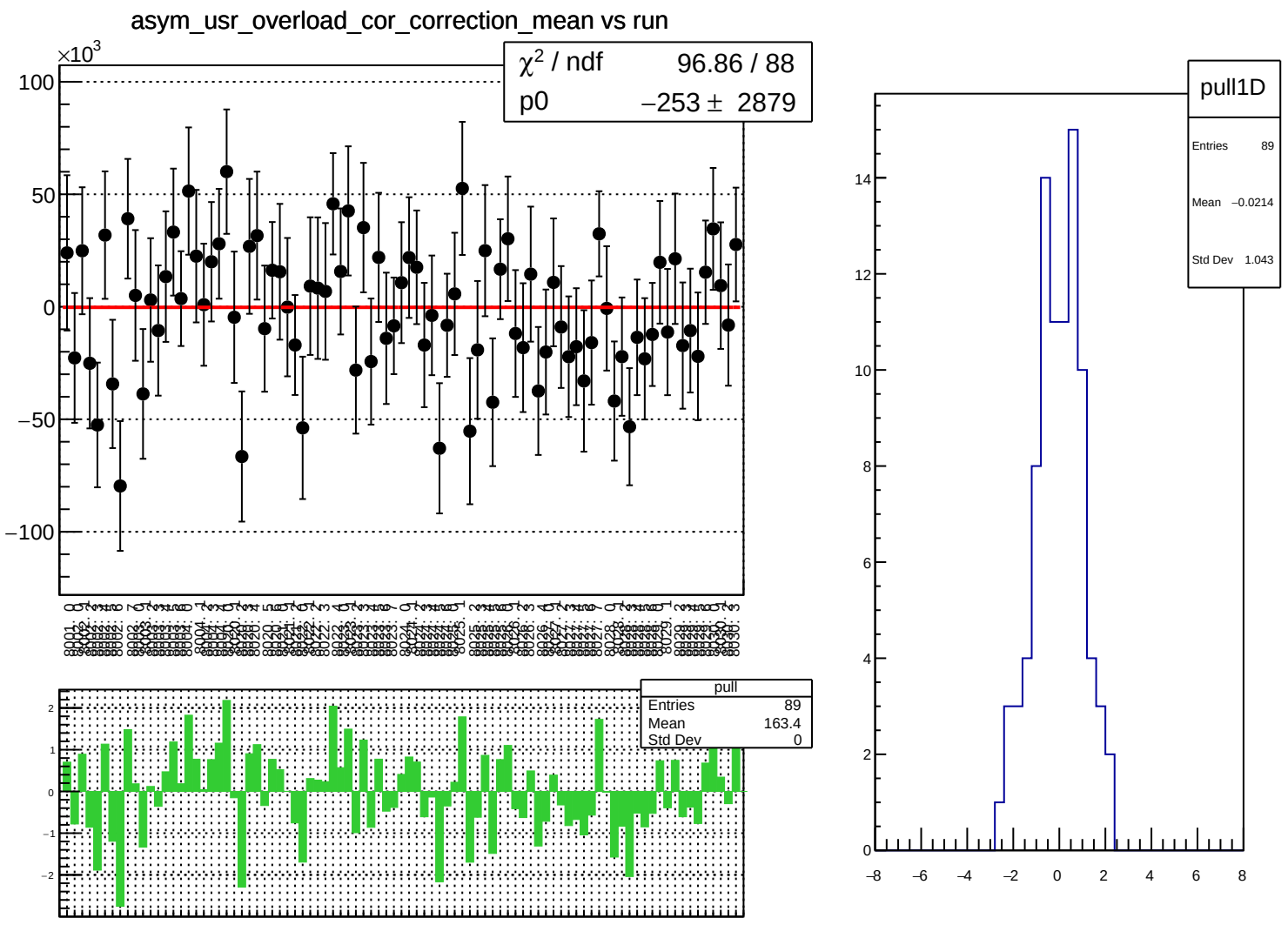

pull1D
Entries 89
Mean −0.02156
Std Dev 1.041
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

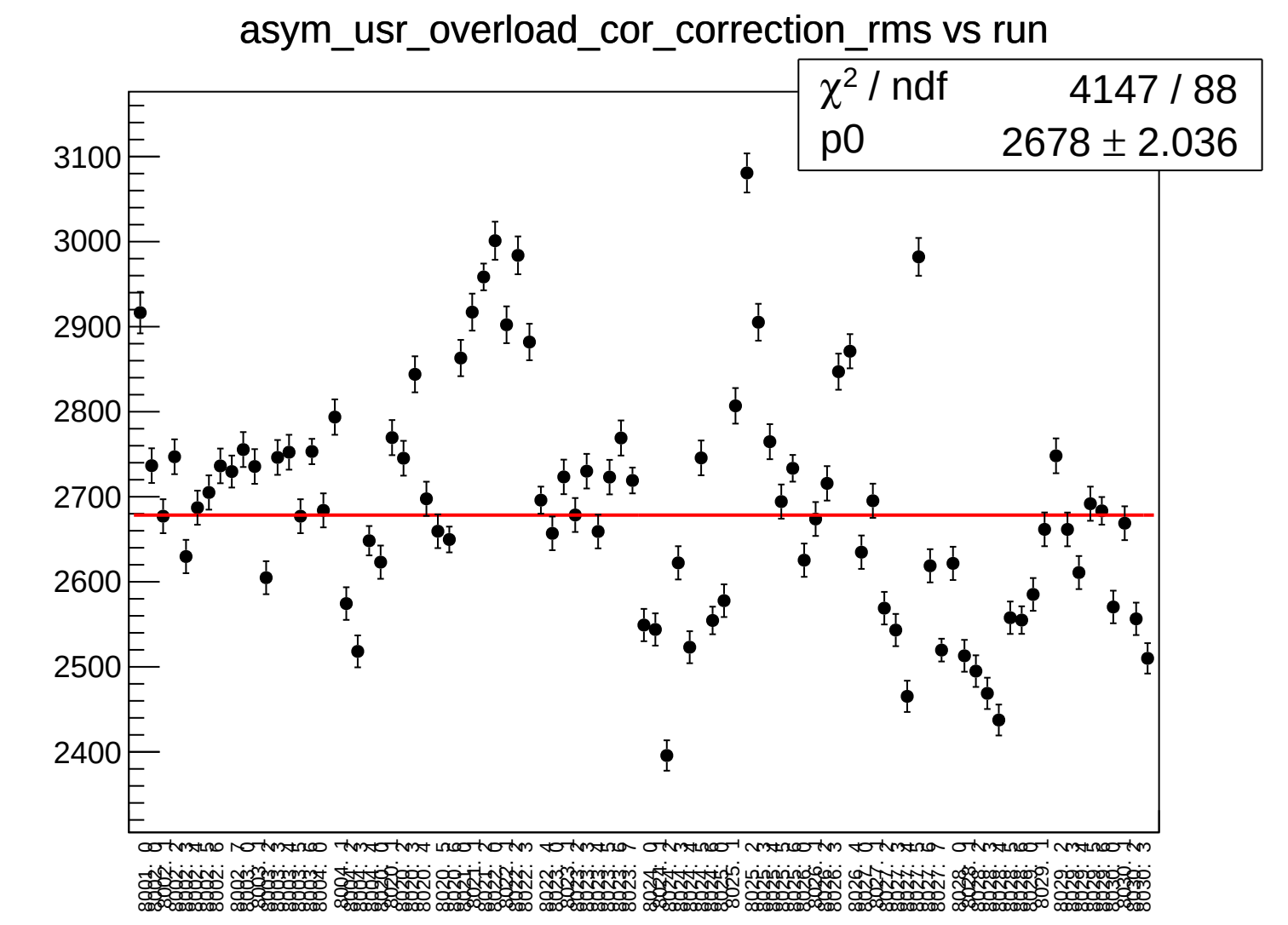

asym_usr_cor_correction_rms vs run
χ² / ndf 4152 / 88
p0 2678 ± 2.036
3100
3000
2900
2800
2700
2600
2500
2400

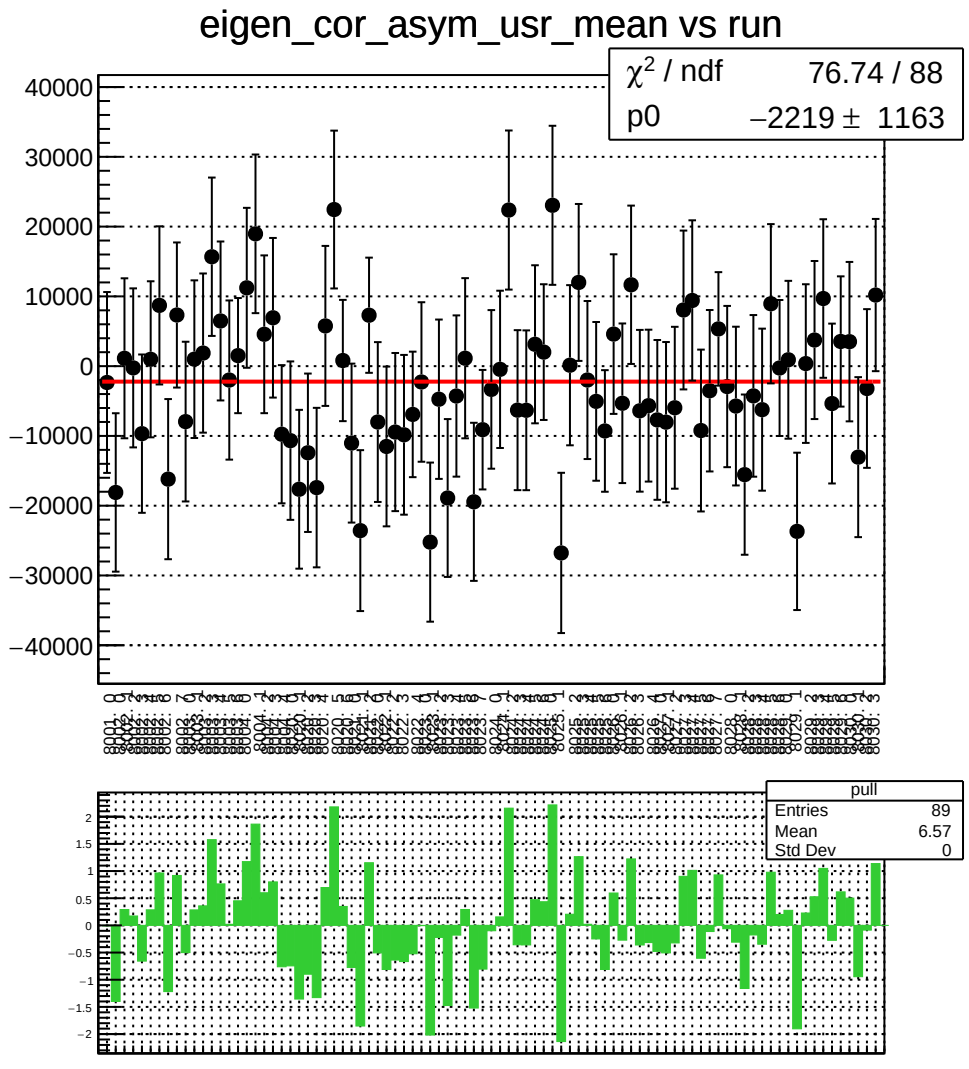

overload_cor_asym_usr_mean vs run
χ² / ndf 77.36 / 88
p0 −2258 ± 1161
pull
Entries 89
Mean 32.81
Std Dev 0

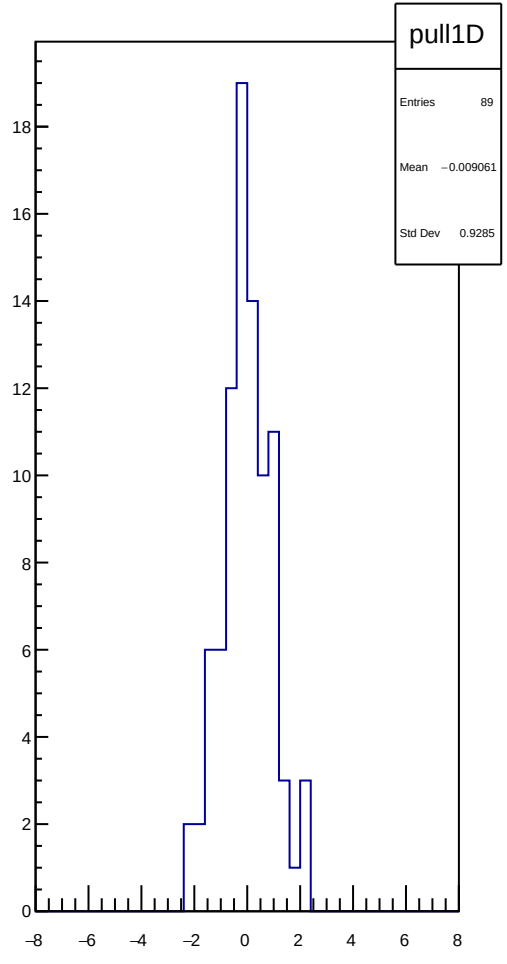

pull1D
Entries 89
Mean −0.008912
Std Dev 0.9323

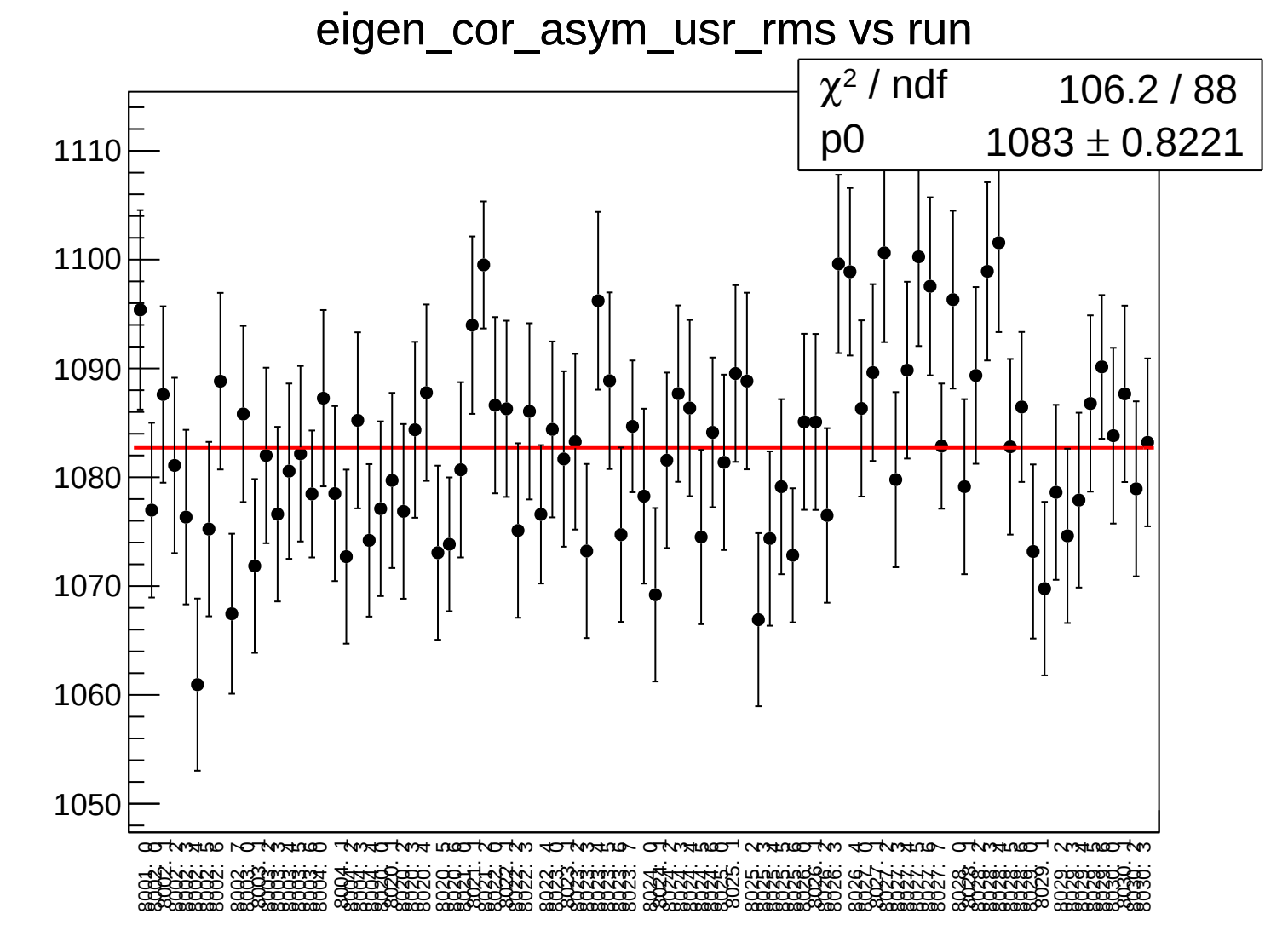

overload_cor_asym_usr_rms vs run
χ² / ndf 105.1 / 88
p0 1081 ± 0.8211
1110
1100
1090
1080
1070
1060
1050

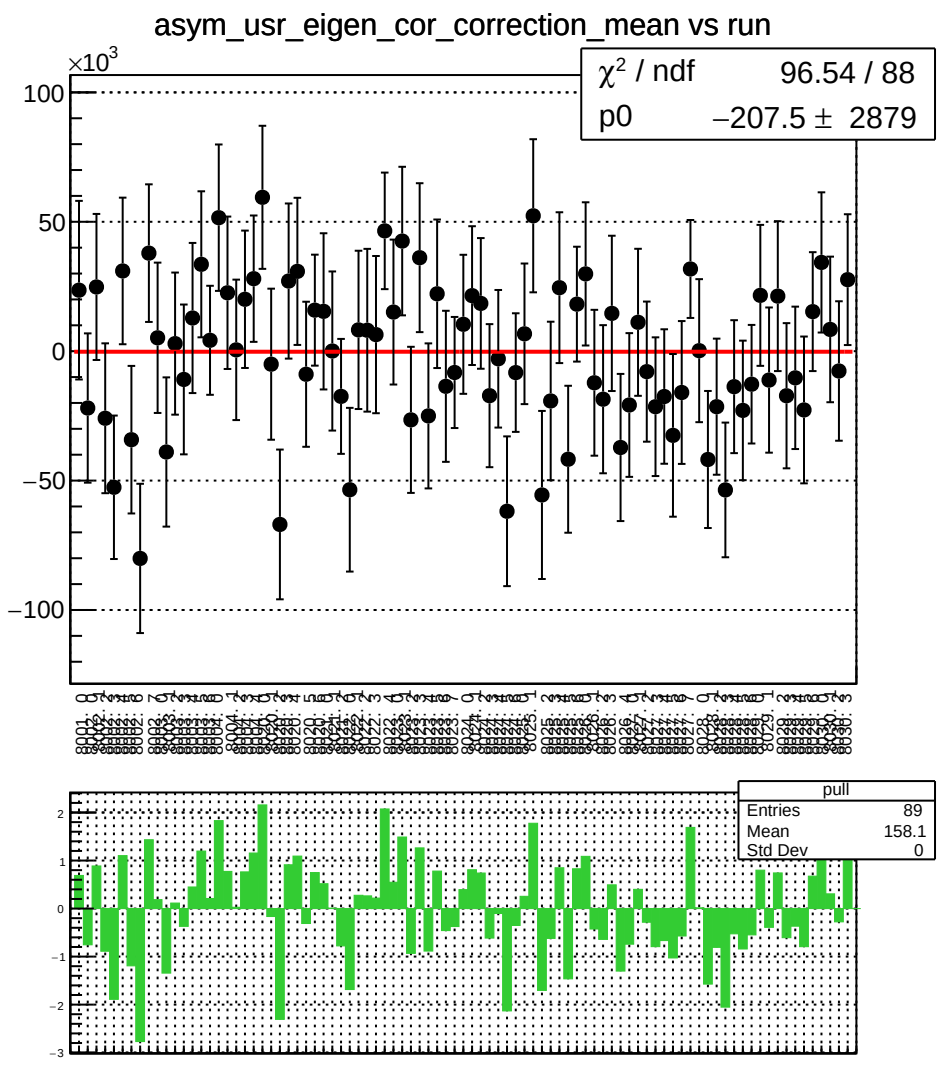

asym_usr_overload_cor_correction_mean vs run
×10^3
χ² / ndf 96.86 / 88
p0 −253 ± 2879
pull
Entries 89
Mean 163.4
Std Dev 0
pull1D
Entries 89
Mean −0.0214
Std Dev 1.043

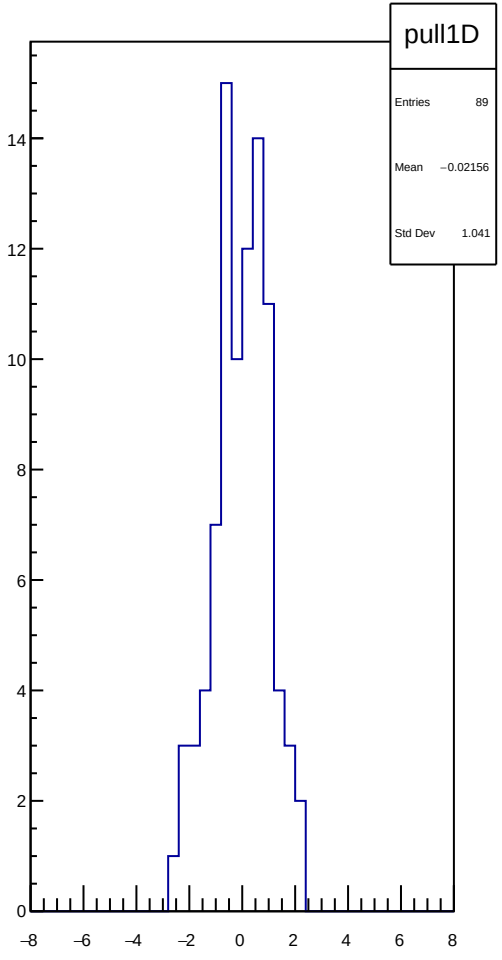

asym_usr_overload_cor_correction_rms vs run
χ² / ndf 4147 / 88
p0 2678 ± 2.036
3100
3000
2900
2800
2700
2600
2500
2400

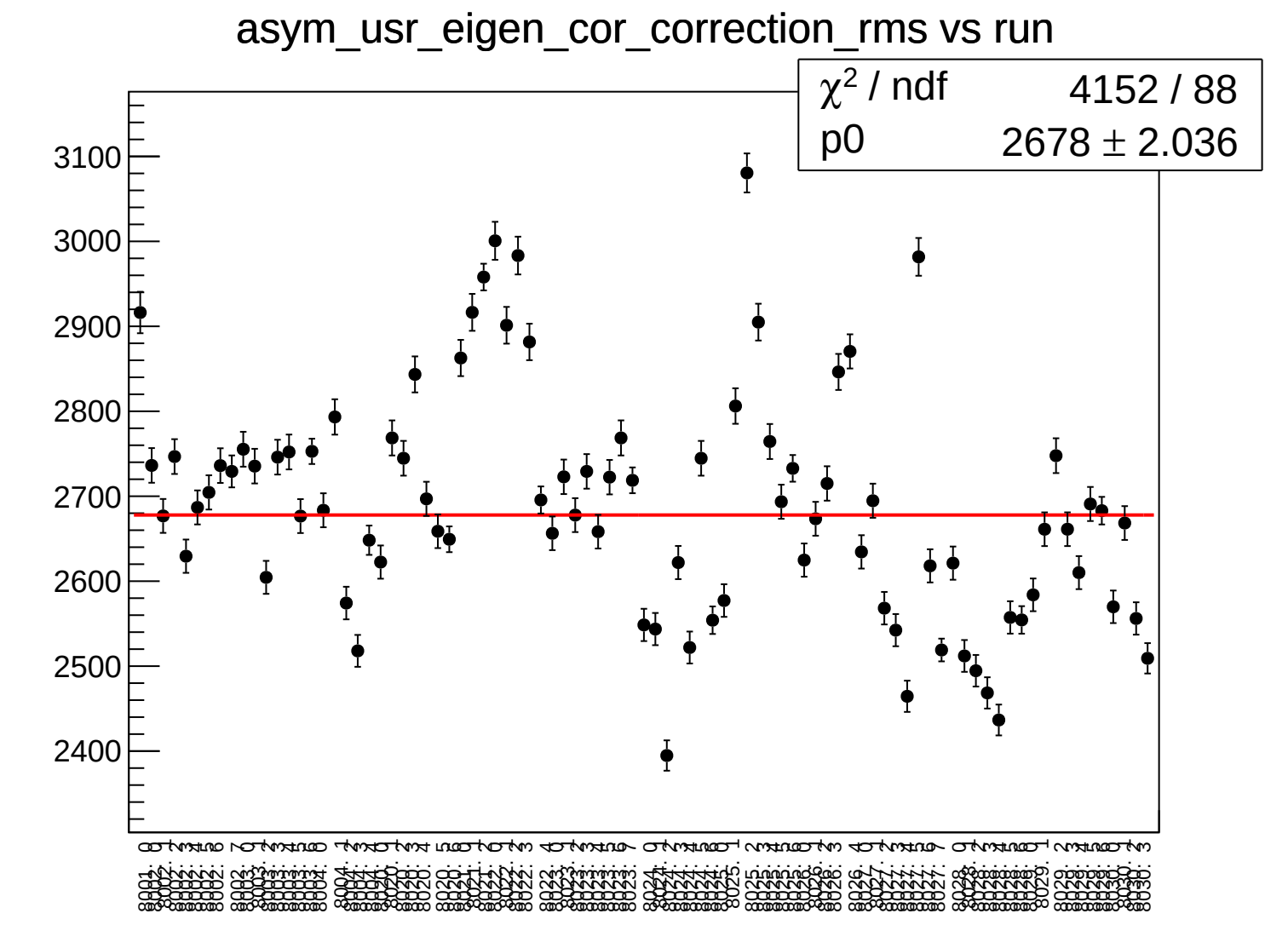

eigen_cor_asym_usr_mean vs run
χ² / ndf 76.74 / 88
p0 −2219 ± 1163
pull
Entries 89
Mean 6.57
Std Dev 0

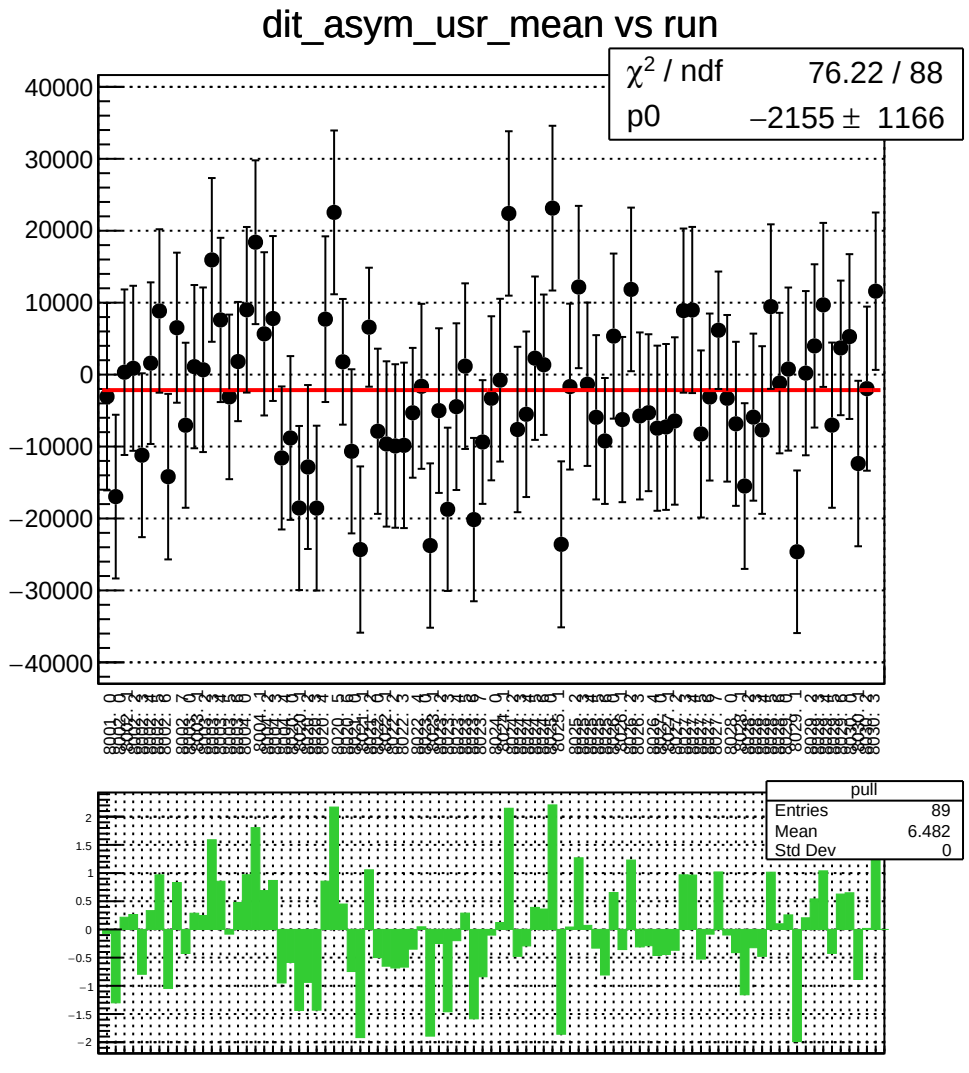

pull1D
Entries 89
Mean −0.009061
Std Dev 0.9285

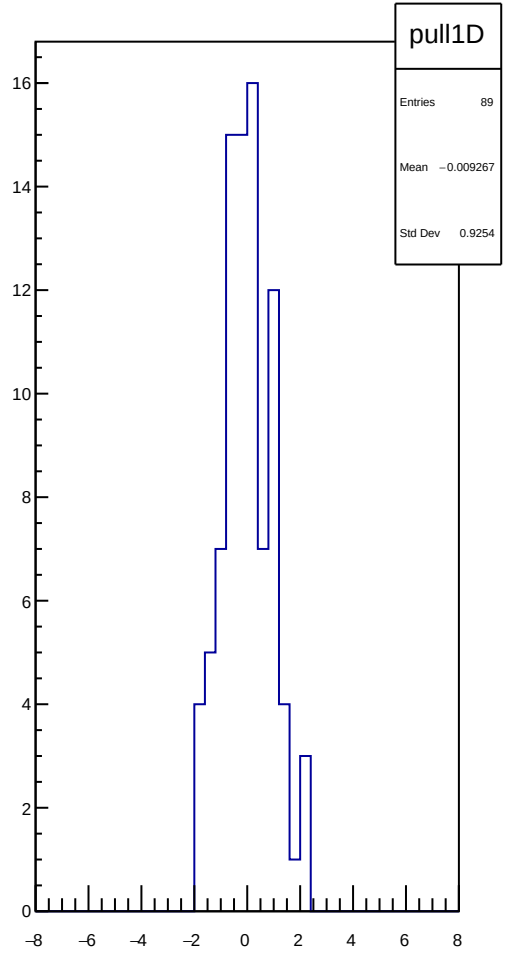

eigen_cor_asym_usr_rms vs run
χ² / ndf 106.2 / 88
p0 1083 ± 0.8221
1110
1100
1090
1080
1070
1060
1050

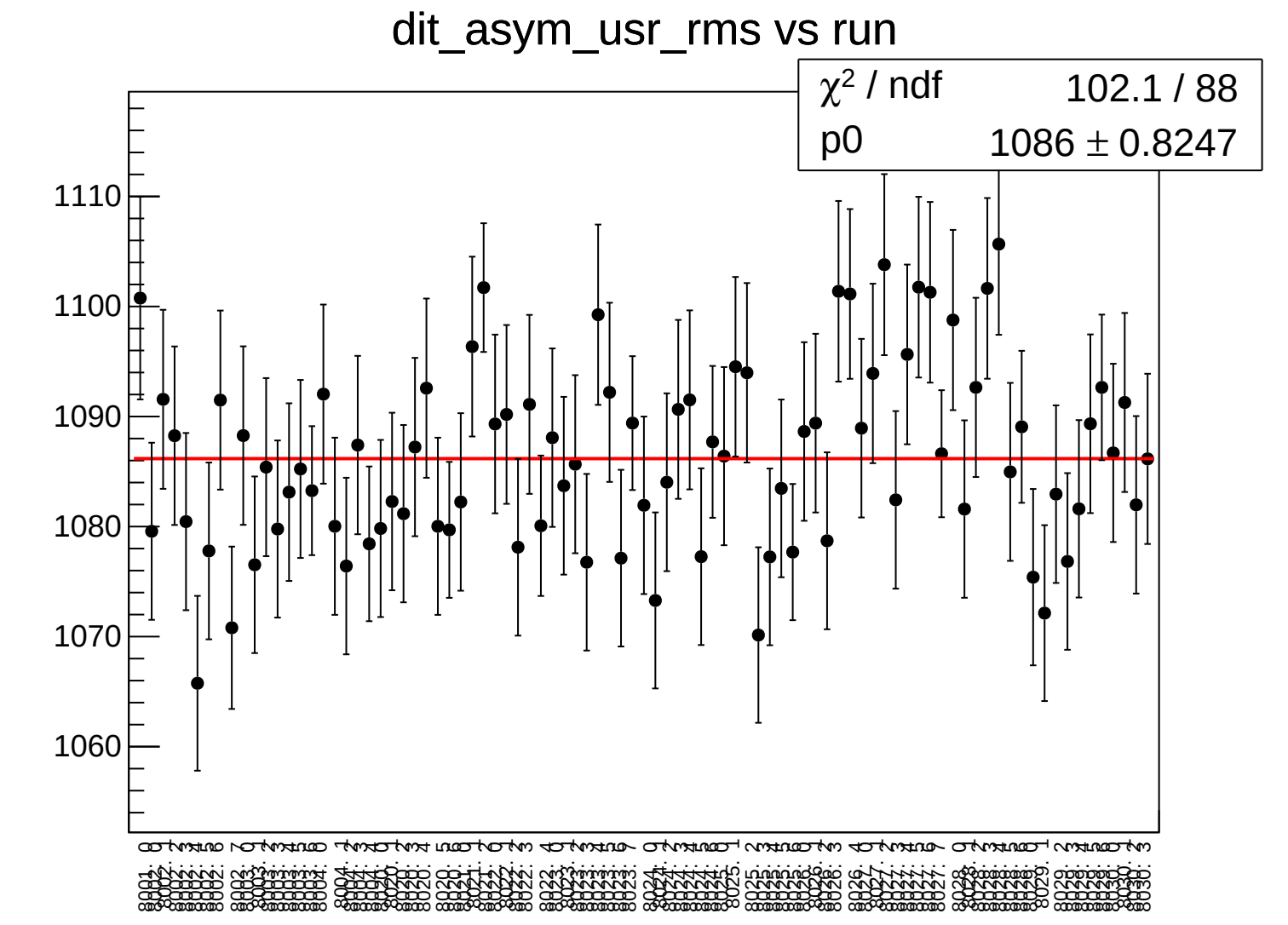

asym_usr_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 96.54 / 88
p0 −207.5 ± 2879
pull
Entries 89
Mean 158.1
Std Dev 0

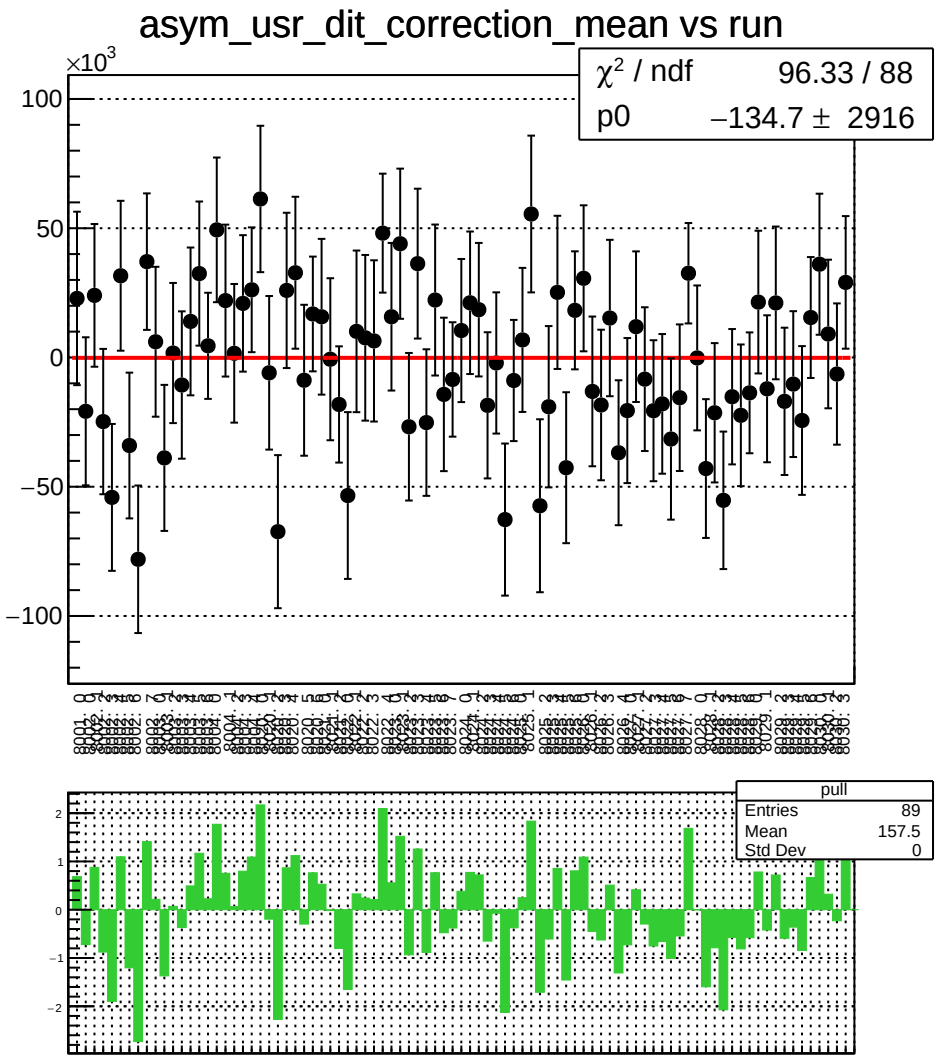

pull1D
Entries 89
Mean −0.02156
Std Dev 1.041

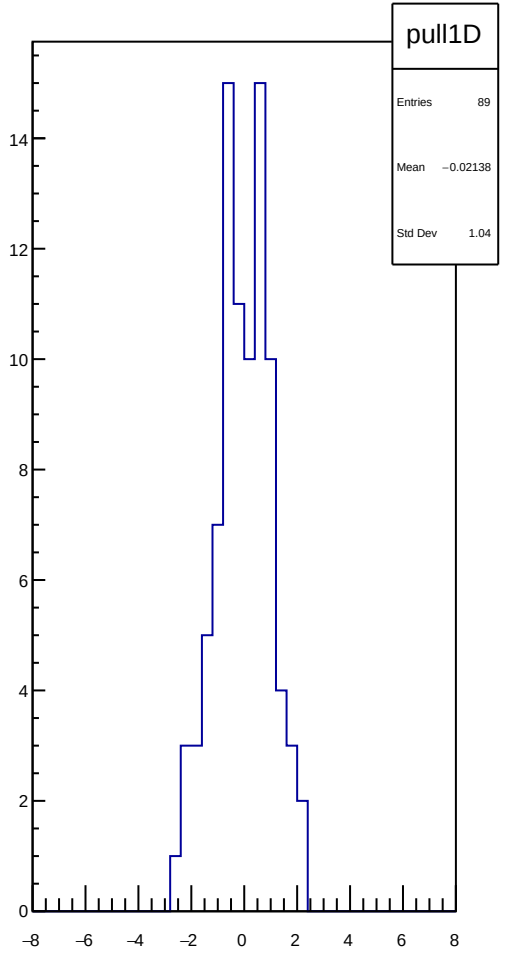

asym_usr_eigen_cor_correction_rms vs run
χ² / ndf 4152 / 88
p0 2678 ± 2.036
3100
3000
2900
2800
2700
2600
2500
2400

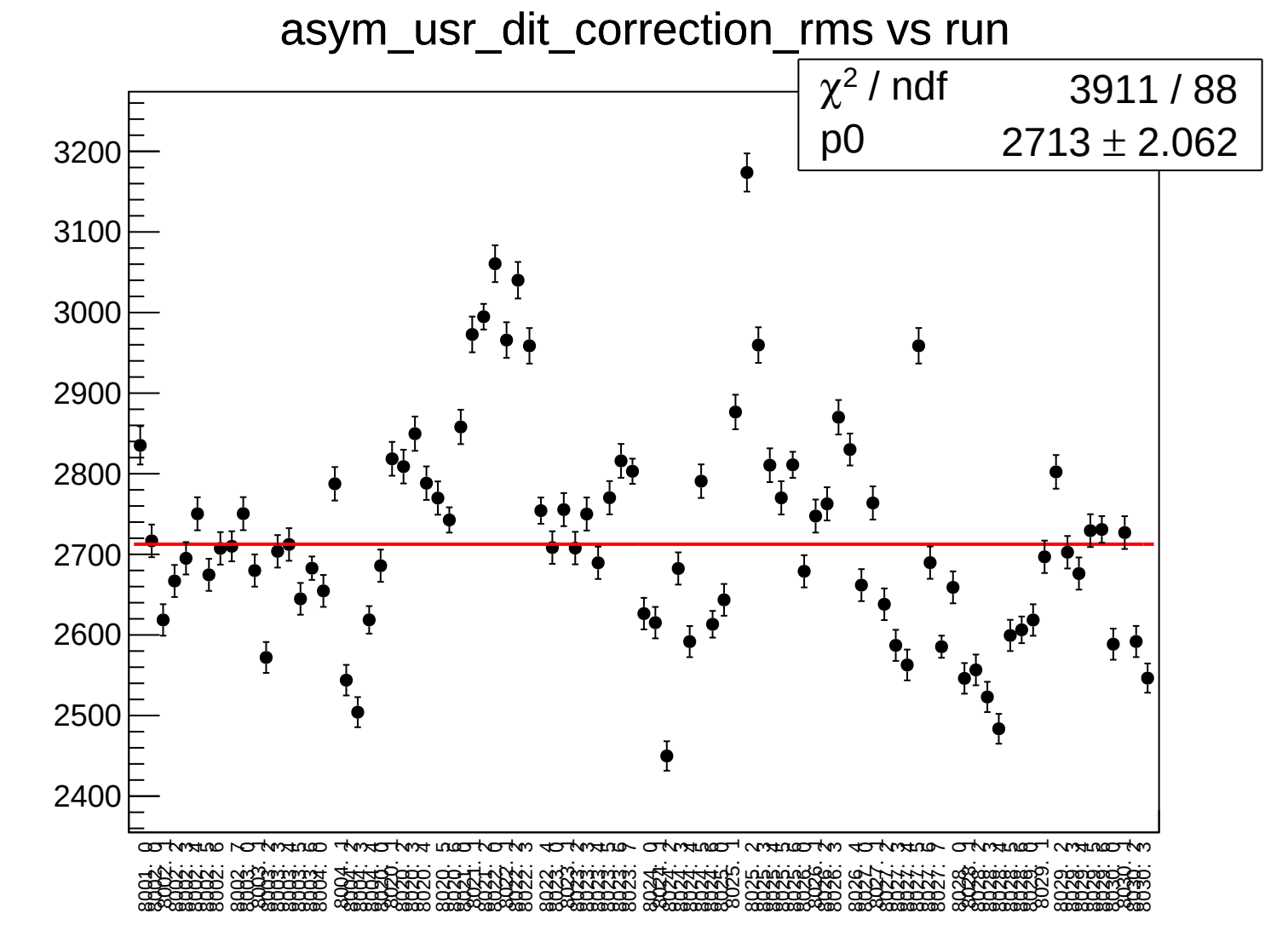

dit_asym_usr_mean vs run
χ² / ndf 76.22 / 88
p0 −2155 ± 1166
pull
Entries 89
Mean 6.482
Std Dev 0

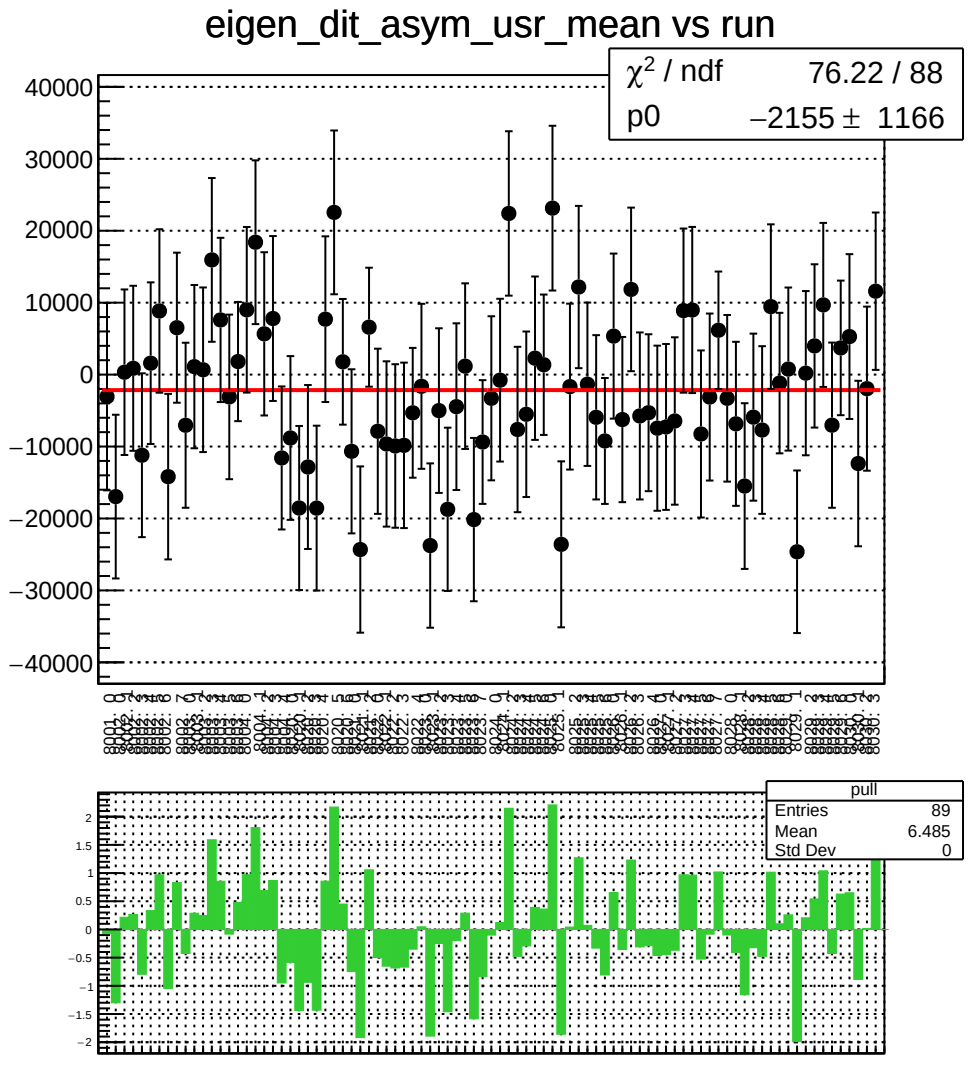

pull1D
Entries 89
Mean −0.009267
Std Dev 0.9254

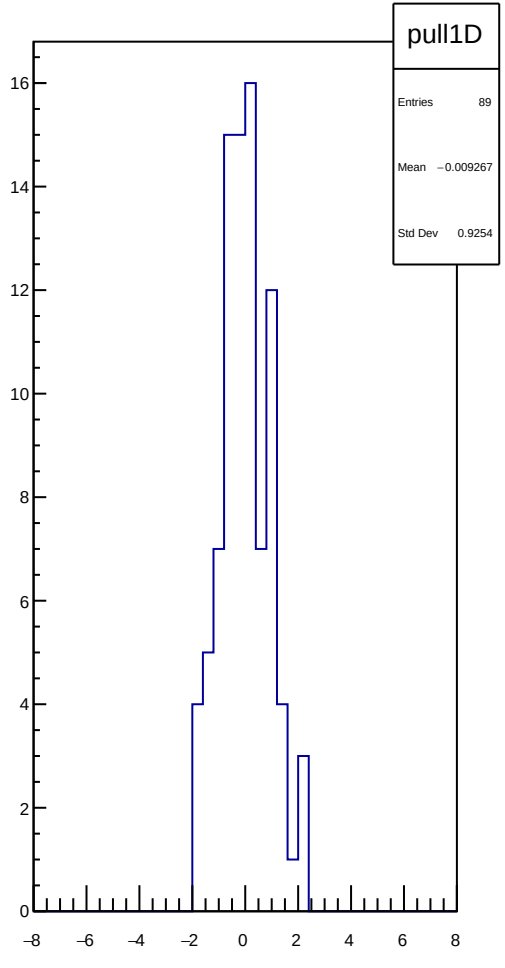

dit_asym_usr_rms vs run
χ² / ndf 102.1 / 88
p0 1086 ± 0.8247
1110
1100
1090
1080
1070
1060

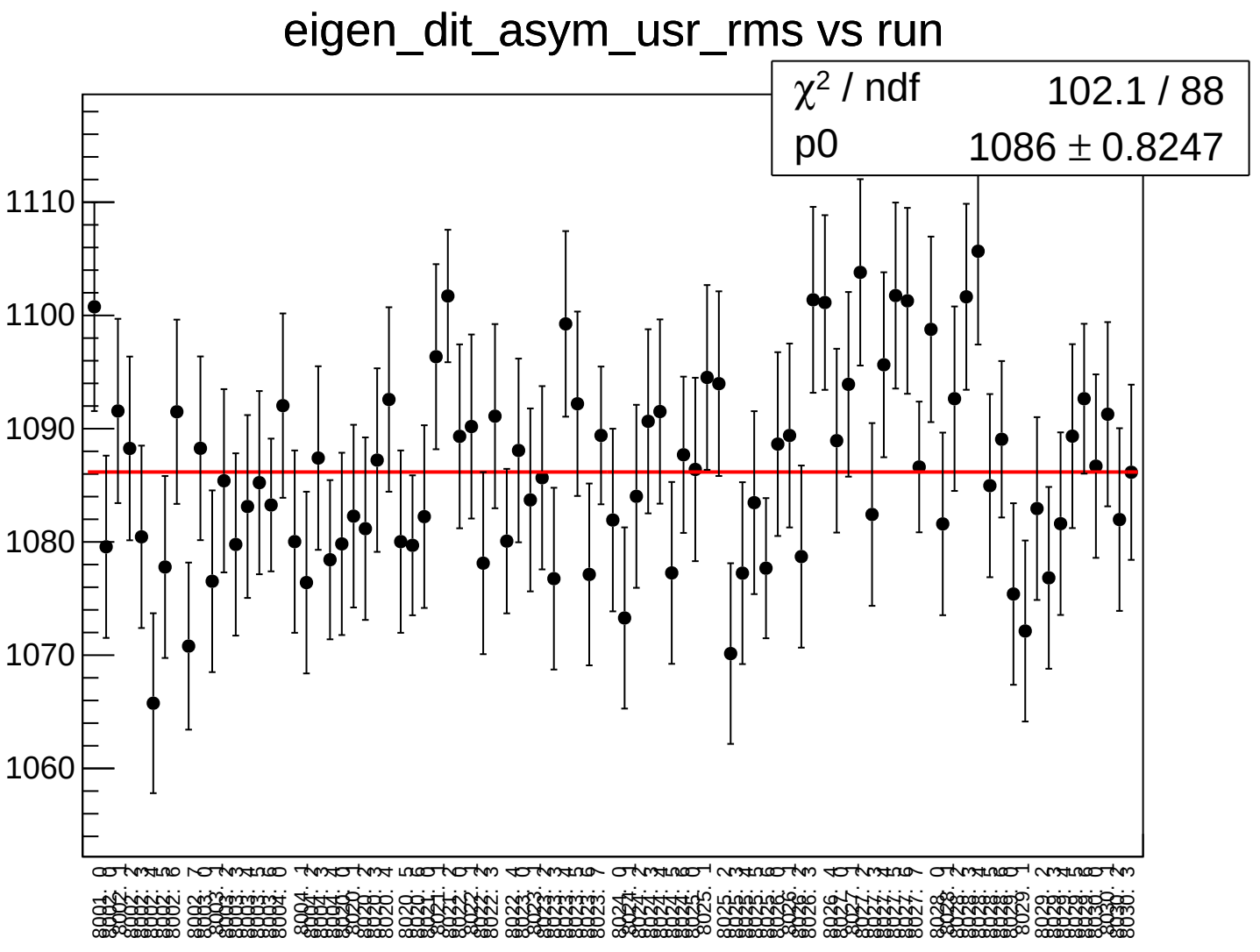

asym_usr_dit_correction_mean vs run
×10^3
χ² / ndf 96.33 / 88
p0 −134.7 ± 2916
100
50
0
−50
−100
pull
Entries 89
Mean 157.5
Std Dev 0
2
1
0
−1
−2

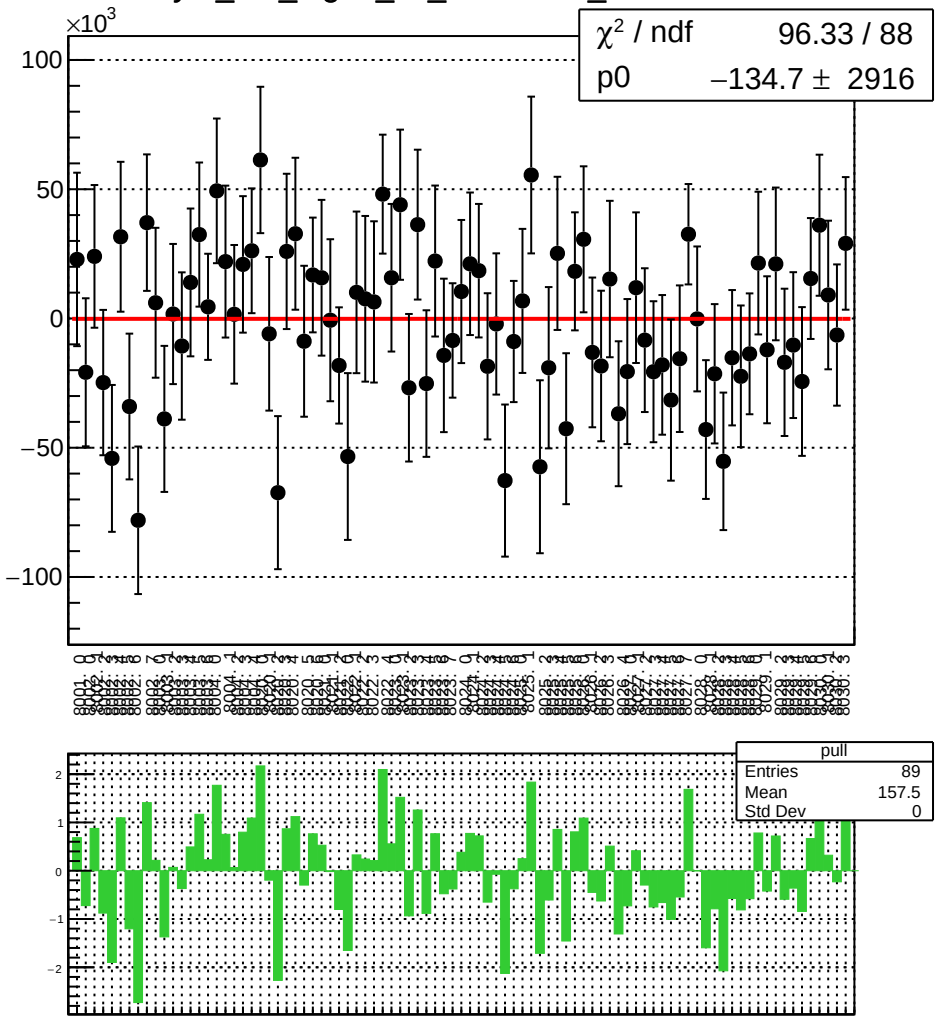

pull1D
Entries 89
Mean −0.02138
Std Dev 1.04
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

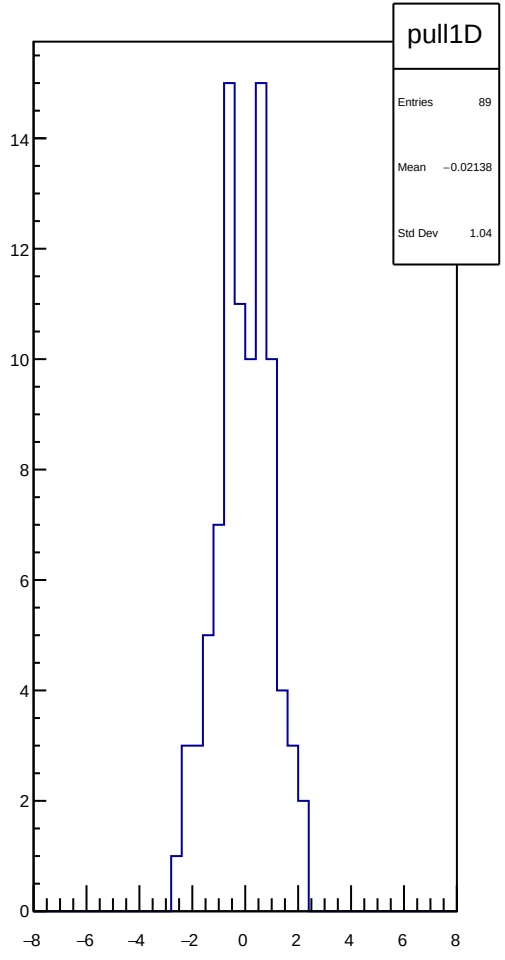

asym_usr_dit_correction_rms vs run
χ^2 / ndf 3911 / 88
p0 2713 ± 2.062
3200
3100
3000
2900
2800
2700
2600
2500
2400

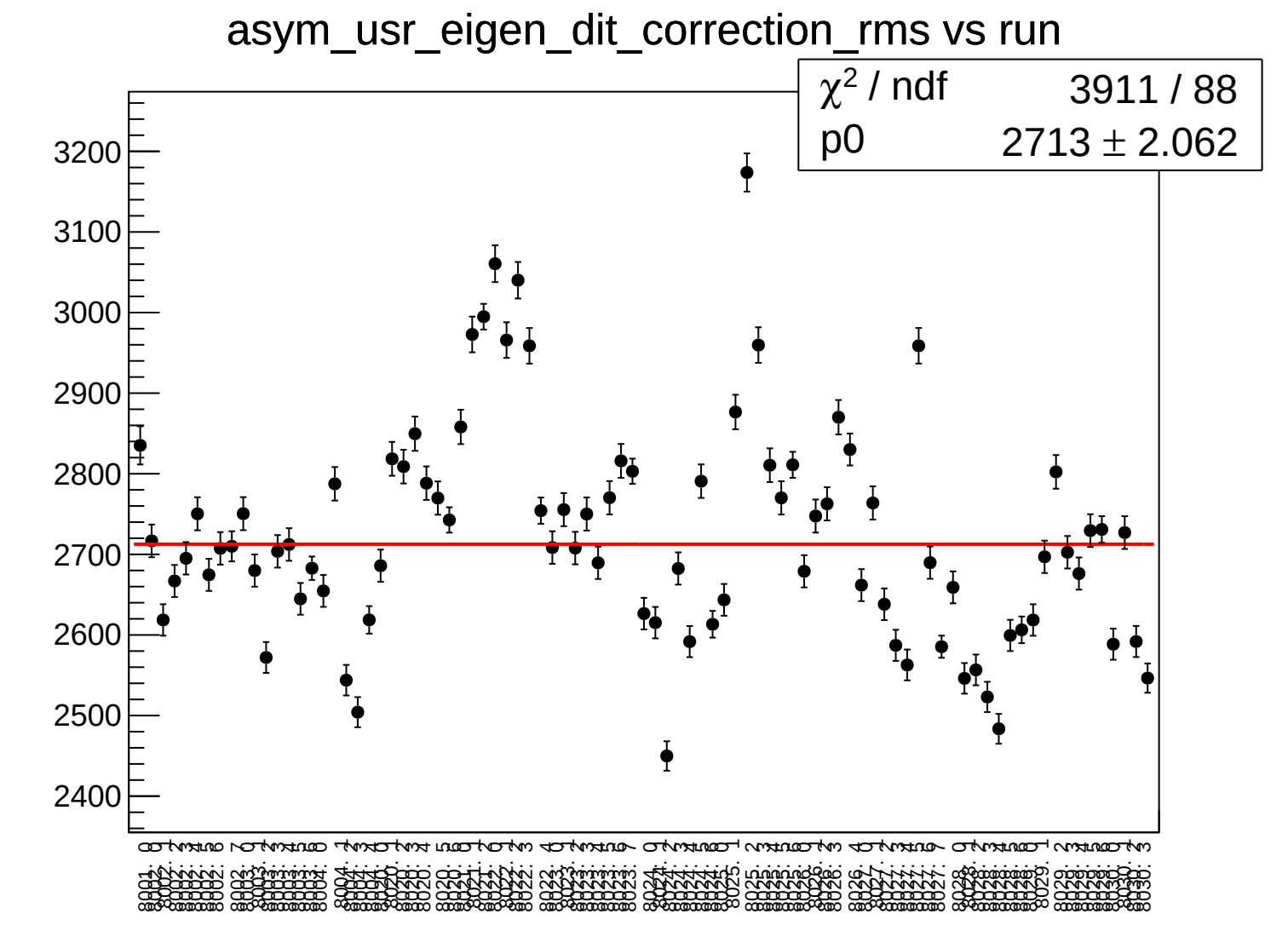

eigen_dit_asym_usr_mean vs run
χ² / ndf 76.22 / 88
p0 −2155 ± 1166
pull
Entries 89
Mean 6.485
Std Dev 0

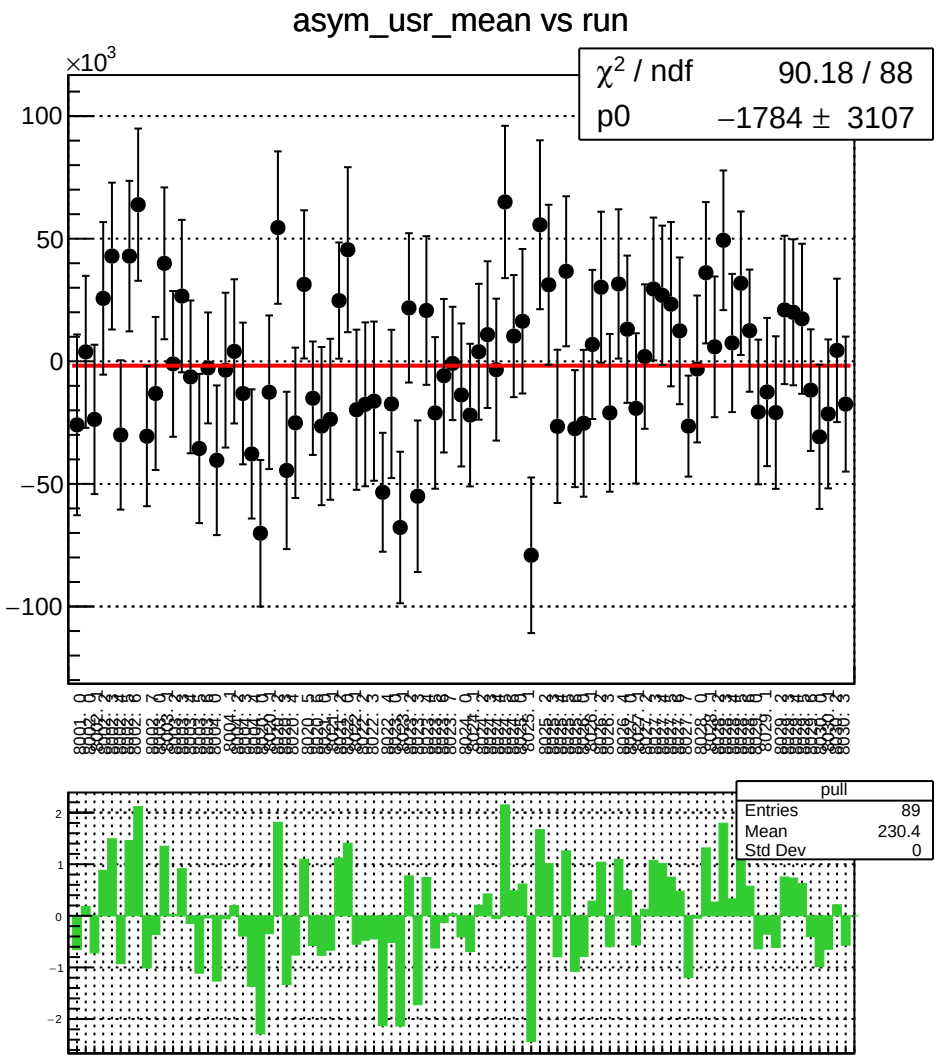

pull1D
Entries 89
Mean −0.009267
Std Dev 0.9254

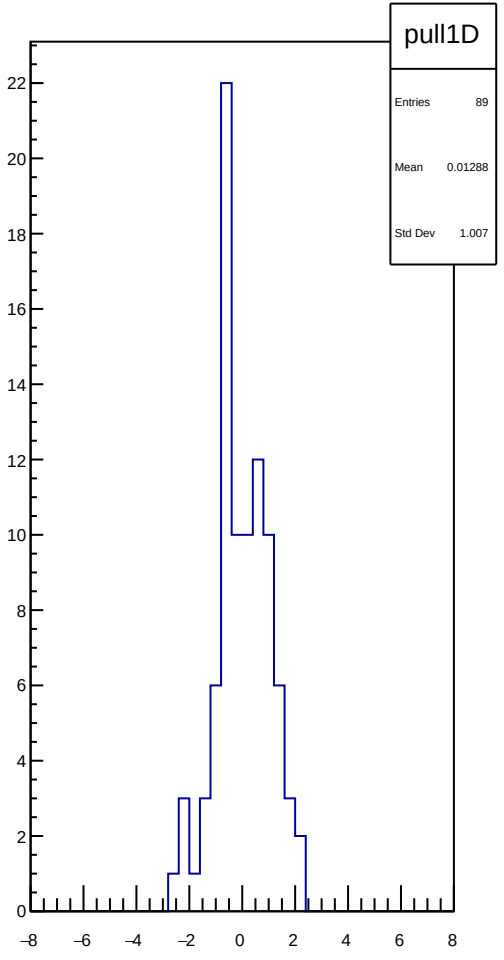

eigen_dit_asym_usr_rms vs run
χ² / ndf 102.1 / 88
p0 1086 ± 0.8247
1110
1100
1090
1080
1070
1060

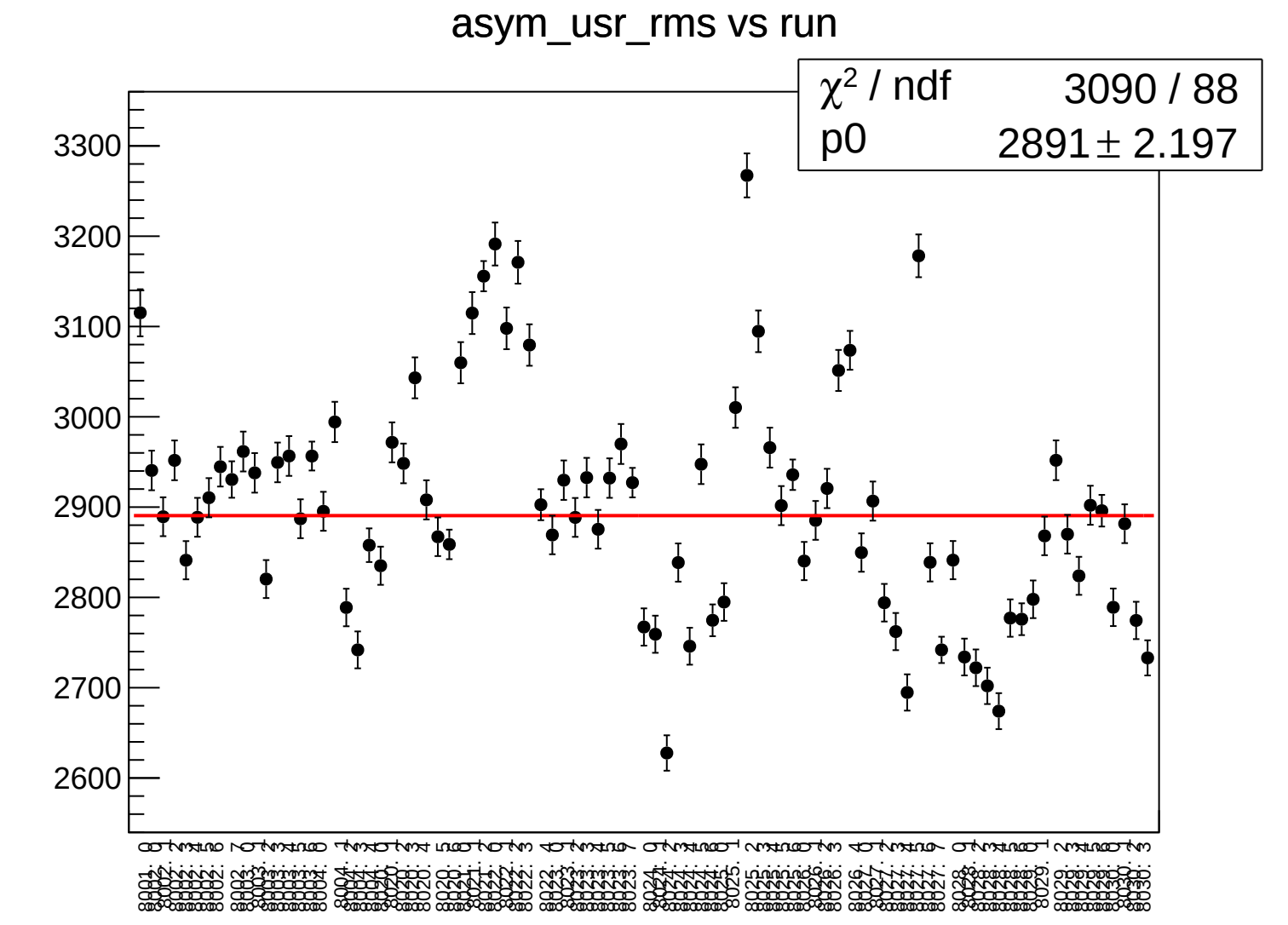

asym_usr_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 96.33 / 88
p0 −134.7 ± 2916
100
50
0
−50
−100
pull
Entries 89
Mean 157.5
Std Dev 0
2
1
0
−1
−2

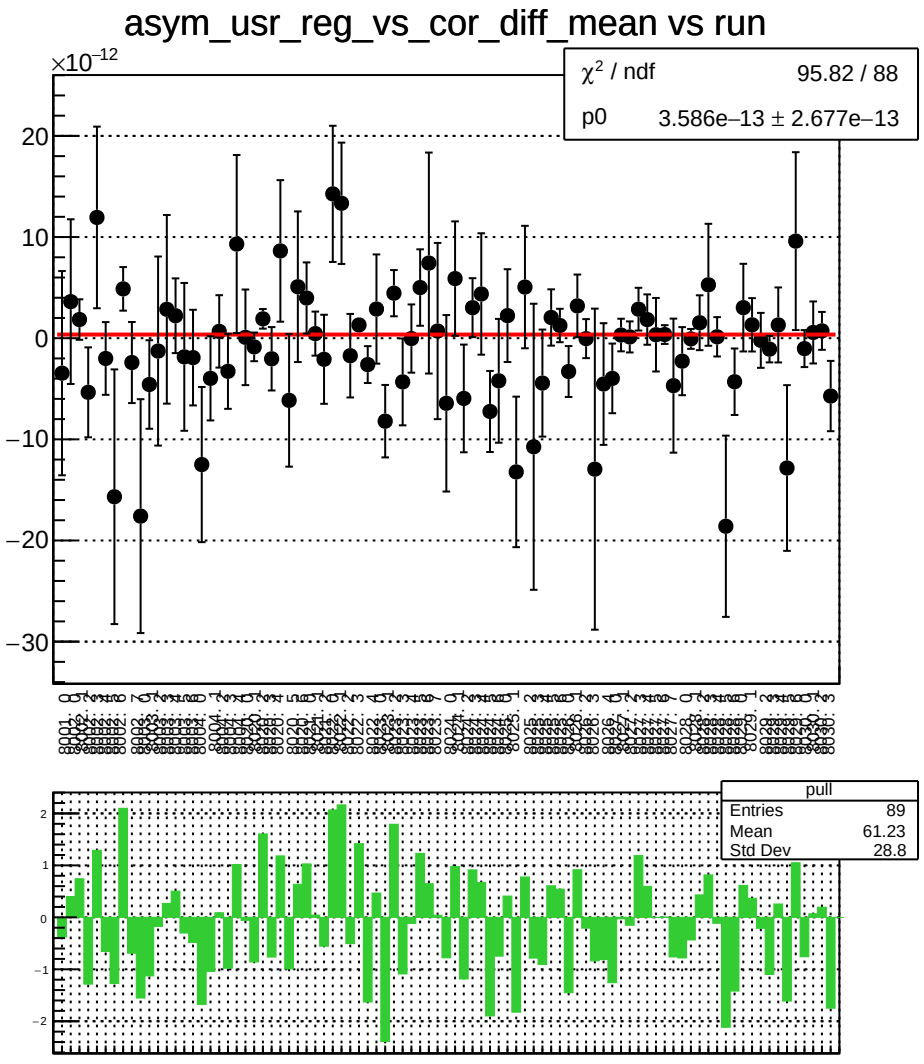

pull1D
Entries 89
Mean −0.02138
Std Dev 1.04
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

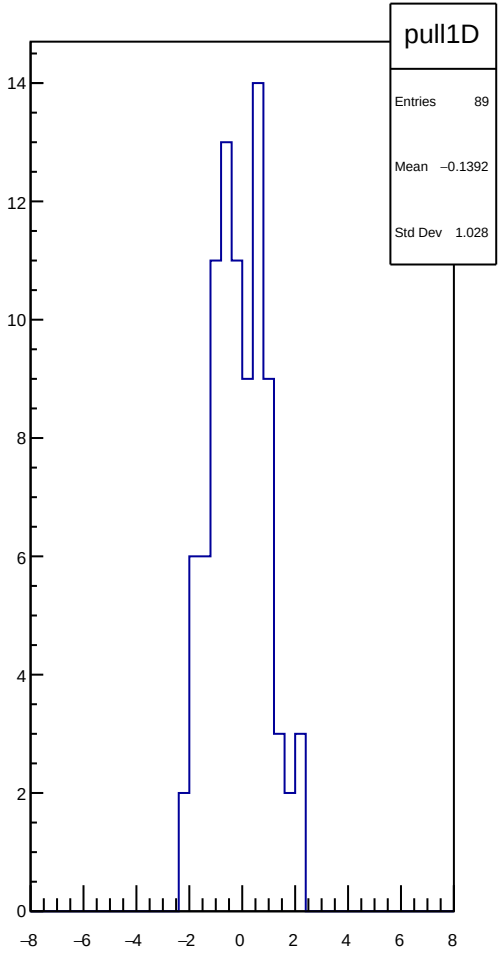

asym_usr_eigen_dit_correction_rms vs run
χ² / ndf 3911 / 88
p0 2713 ± 2.062
3200
3100
3000
2900
2800
2700
2600
2500
2400

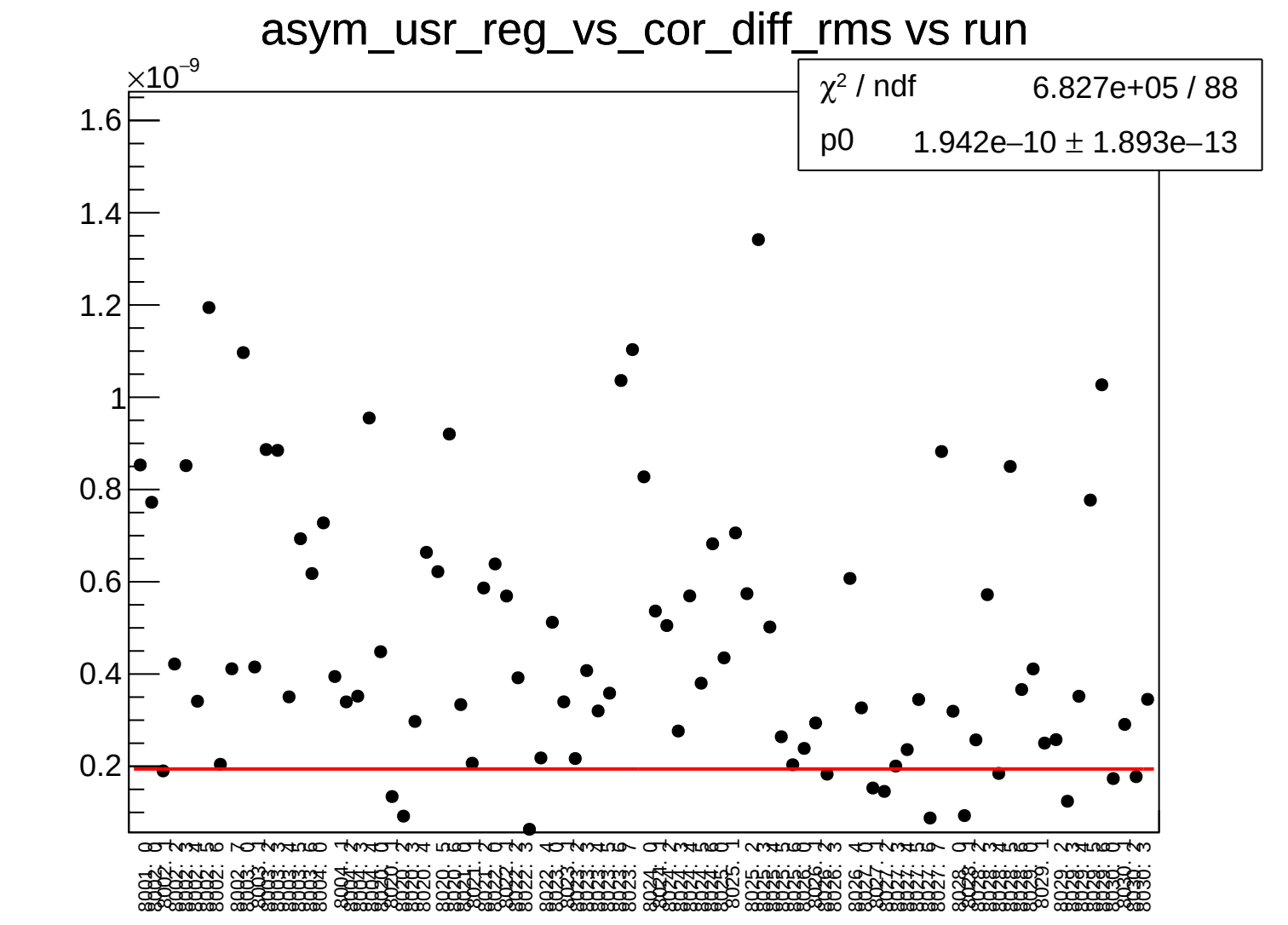

asym_usr_mean vs run
×10^3
χ² / ndf 90.18 / 88
p0 −1784 ± 3107
100
50
0
−50
−100
pull
Entries 89
Mean 230.4
Std Dev 0
2
1
0
−1
−2

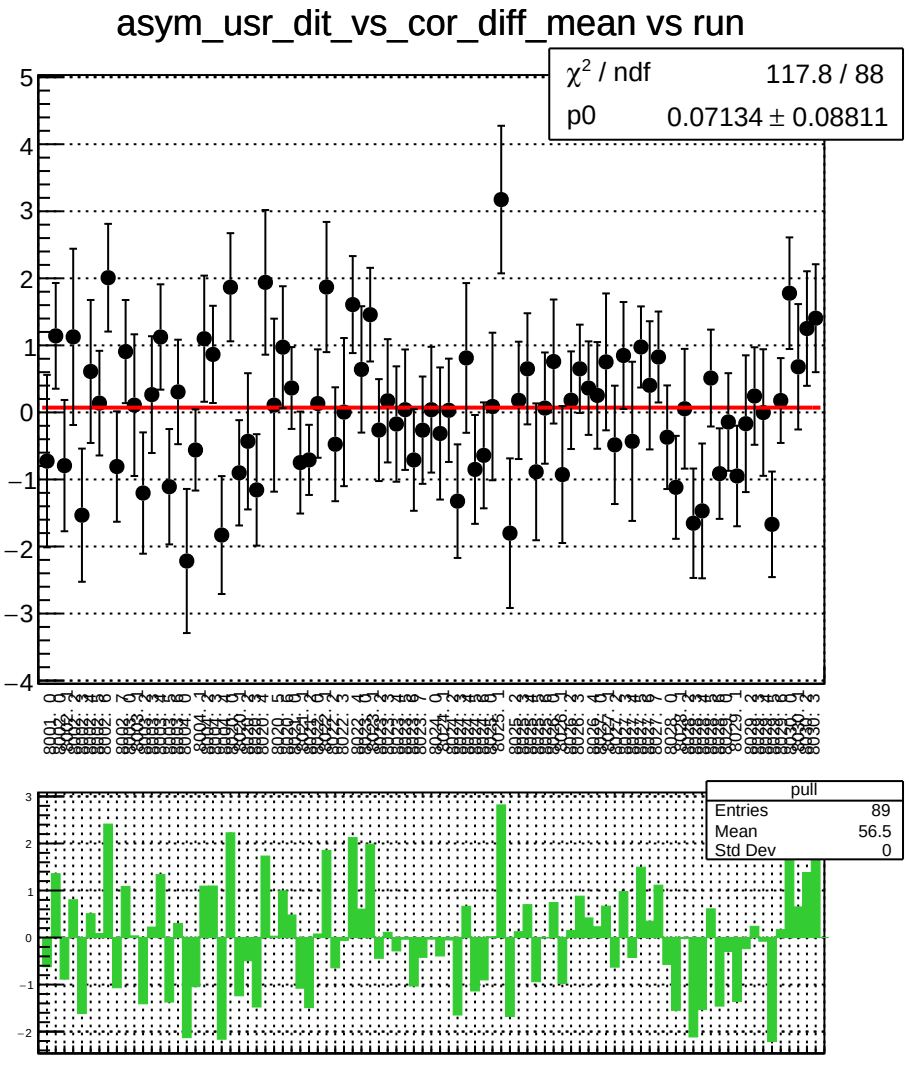

pull1D
Entries 89
Mean 0.01288
Std Dev 1.007
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

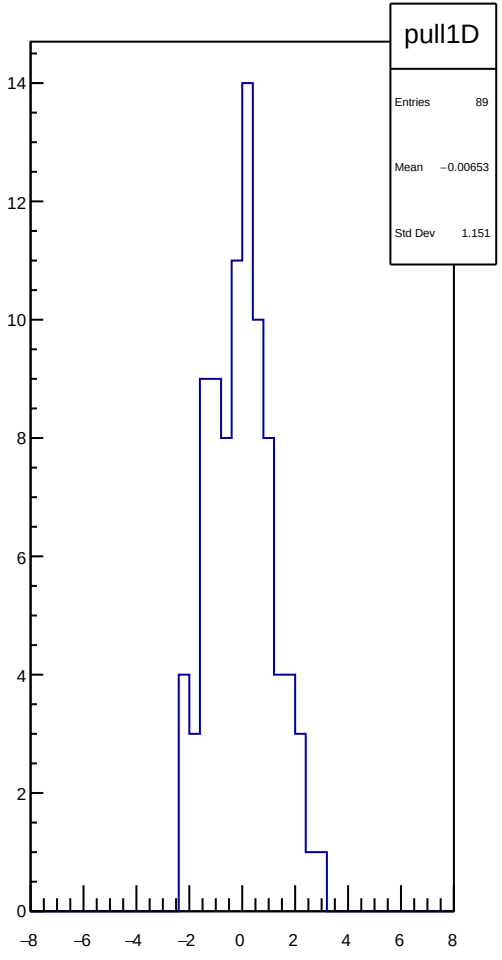

asym_usr_rms vs run
χ² / ndf 3090 / 88
p0 2891 ± 2.197
3300
3200
3100
3000
2900
2800
2700
2600

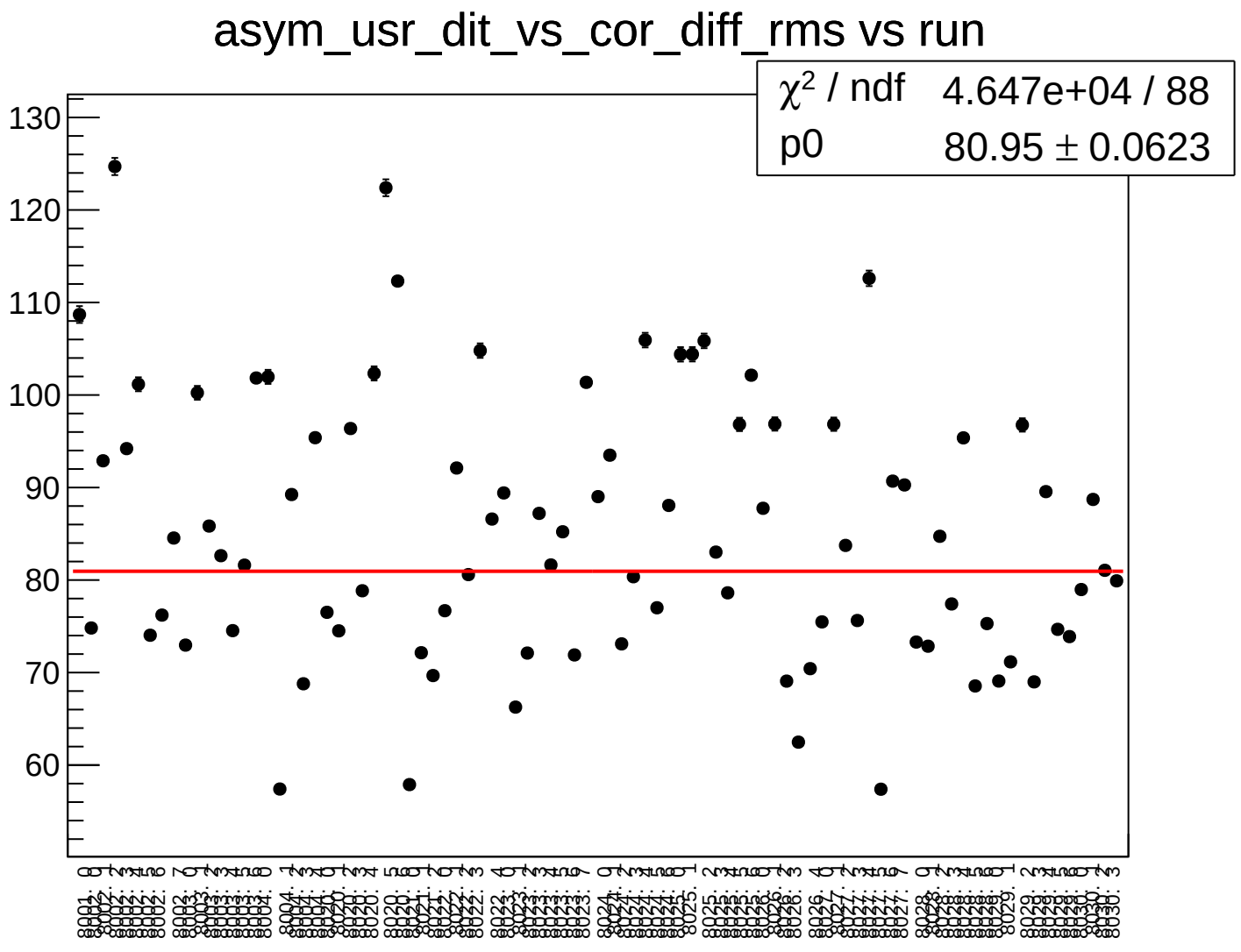

asym_usr_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.82 / 88
p0 3.586e−13 ± 2.677e−13
pull
Entries 89
Mean 61.23
Std Dev 28.8

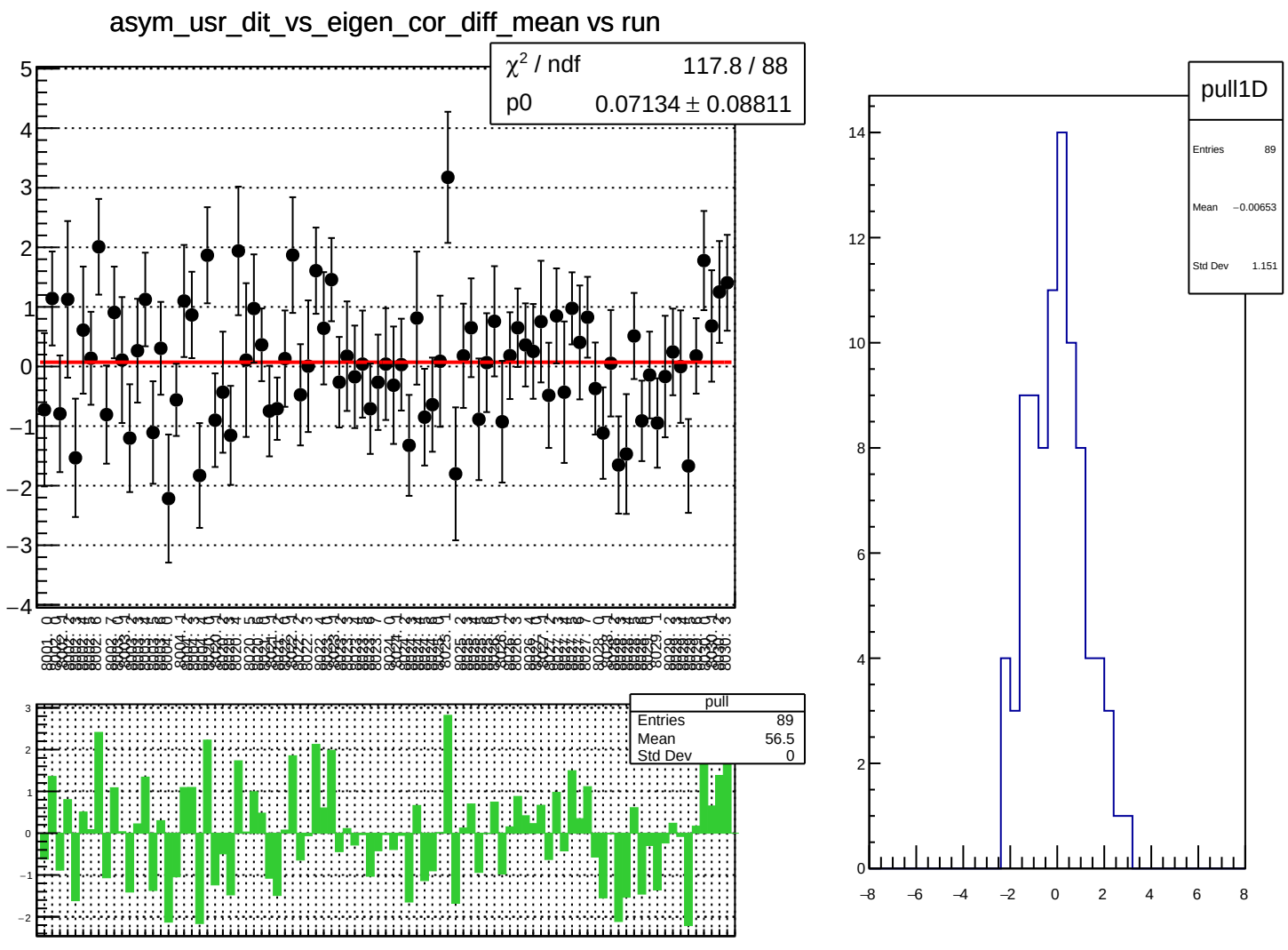

pull1D
Entries 89
Mean −0.1392
Std Dev 1.028

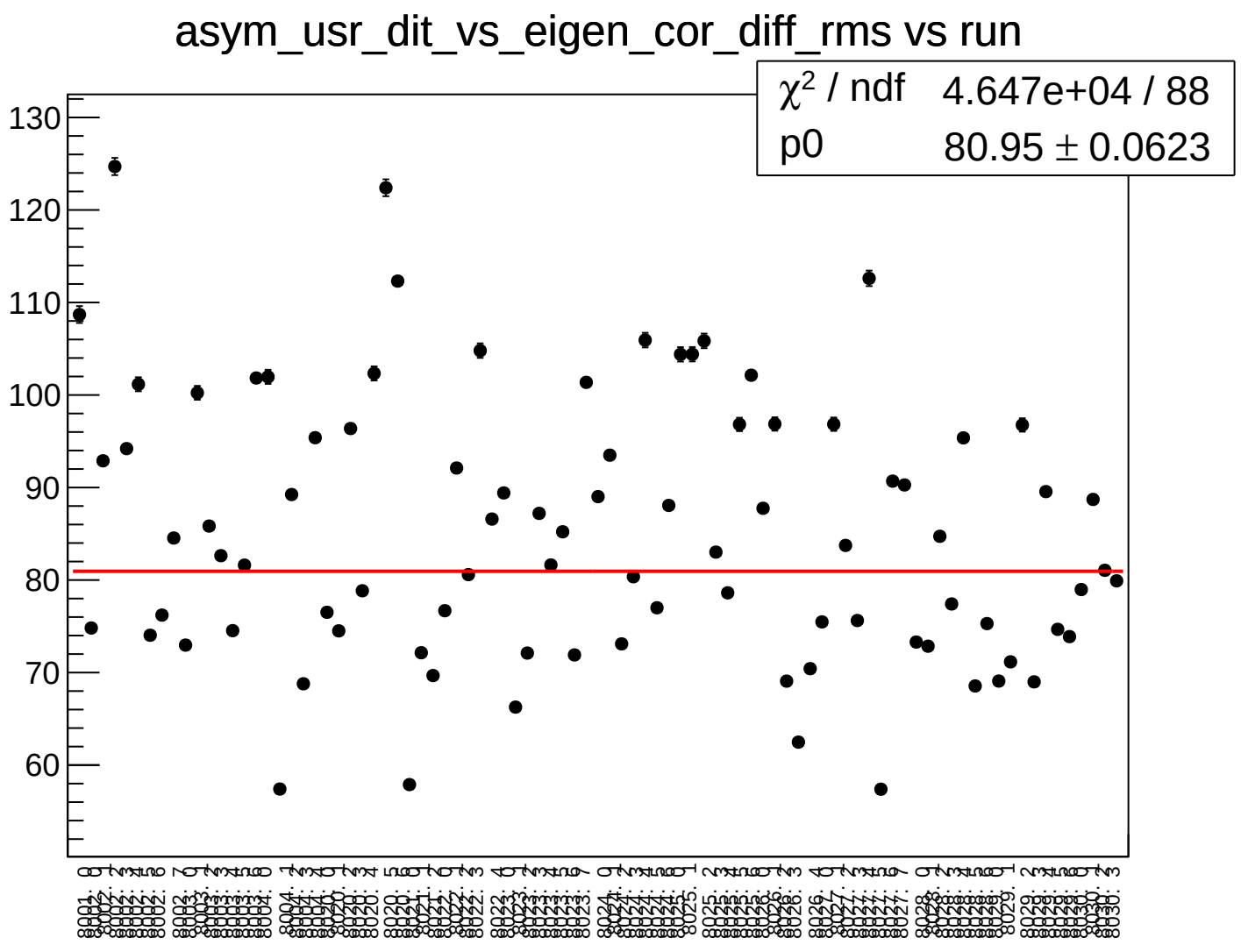

asym_usr_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.827e+05 / 88
p0 1.942e−10 ± 1.893e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

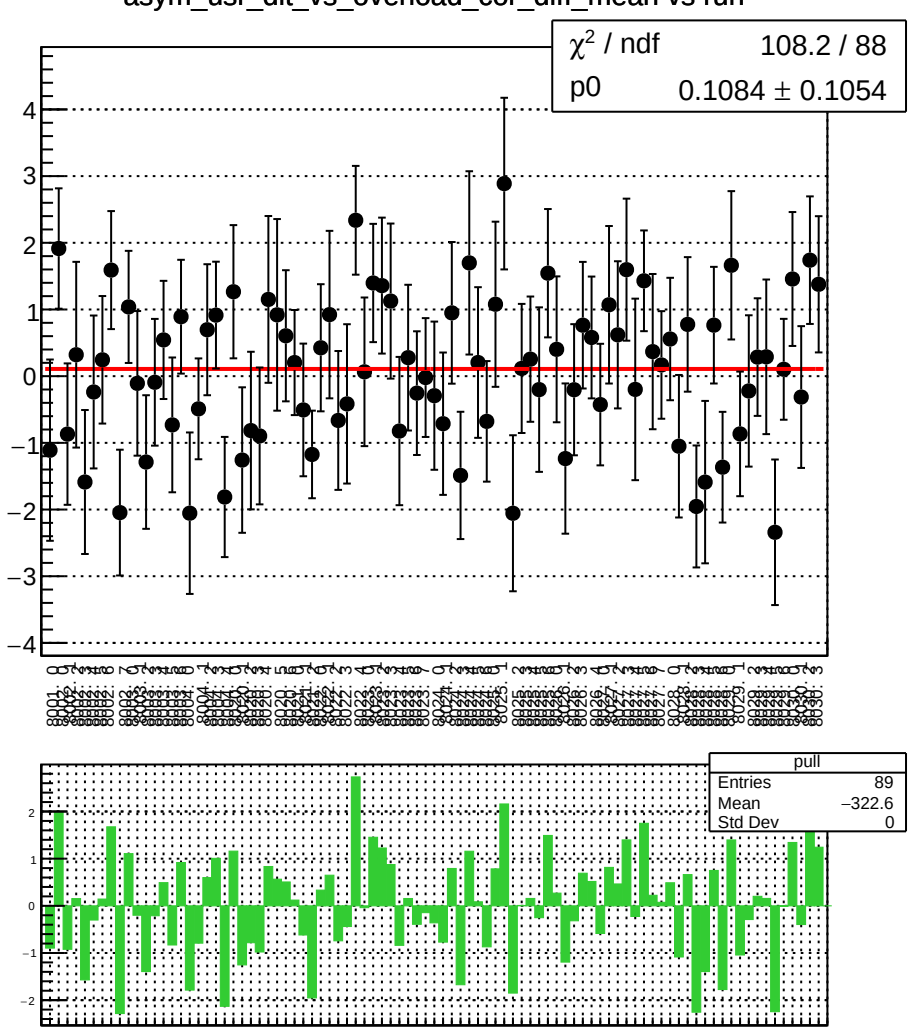

asym_usr_dit_vs_cor_diff_mean vs run
χ² / ndf 117.8 / 88
p0 0.07134 ± 0.08811
pull
Entries 89
Mean 56.5
Std Dev 0

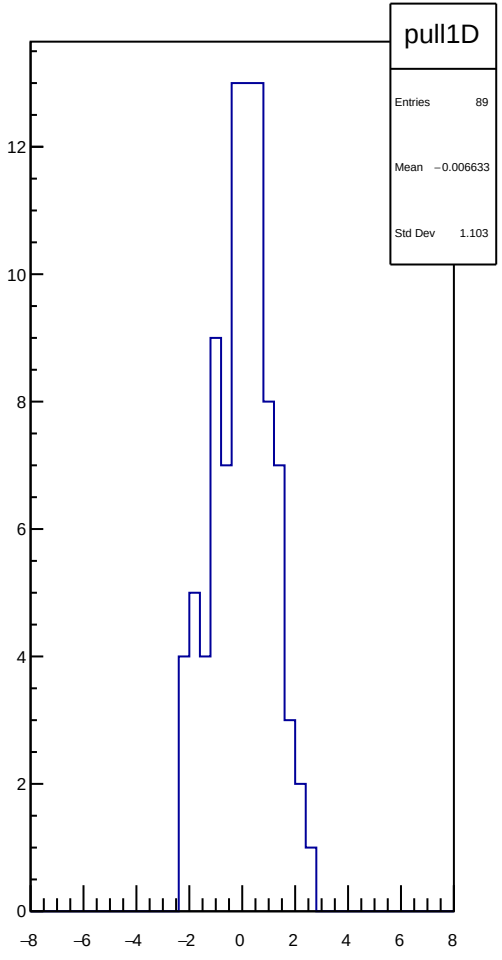

pull1D
Entries 89
Mean −0.00653
Std Dev 1.151

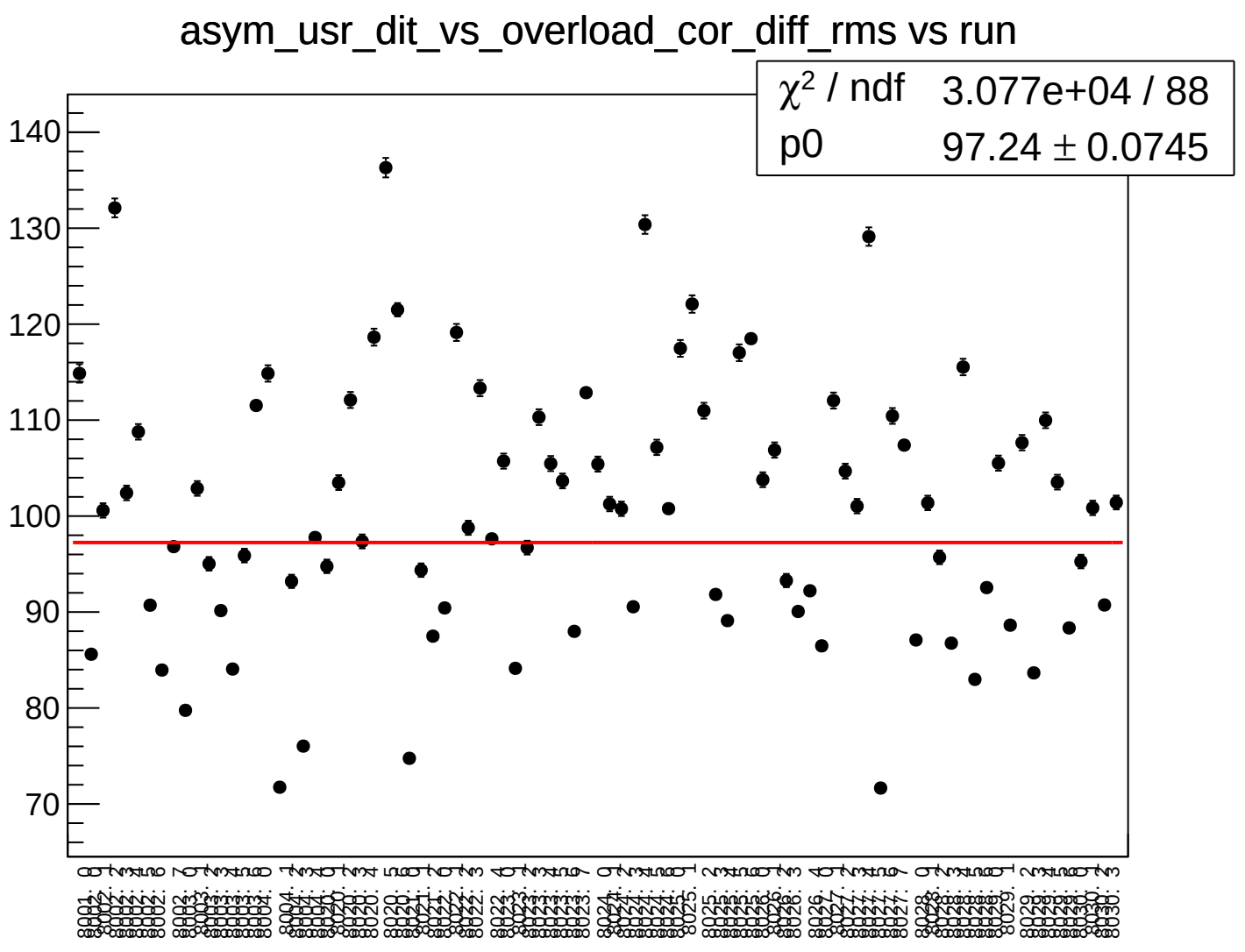

asym_usr_dit_vs_cor_diff_rms vs run
χ² / ndf 4.647e+04 / 88
p0 80.95 ± 0.0623
130
120
110
100
90
80
70
60

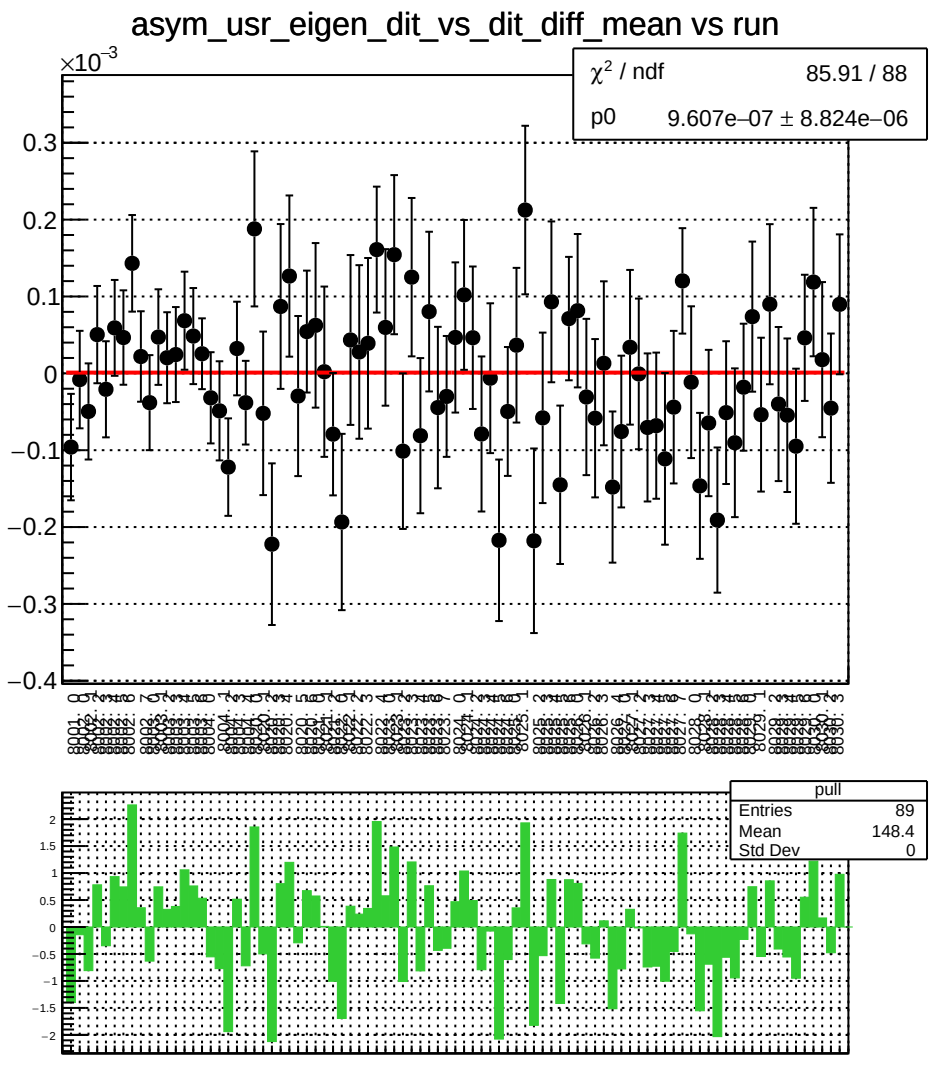

asym_usr_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 117.8 / 88
p0 0.07134 ± 0.08811
pull
Entries 89
Mean 56.5
Std Dev 0
pull1D
Entries 89
Mean −0.00653
Std Dev 1.151

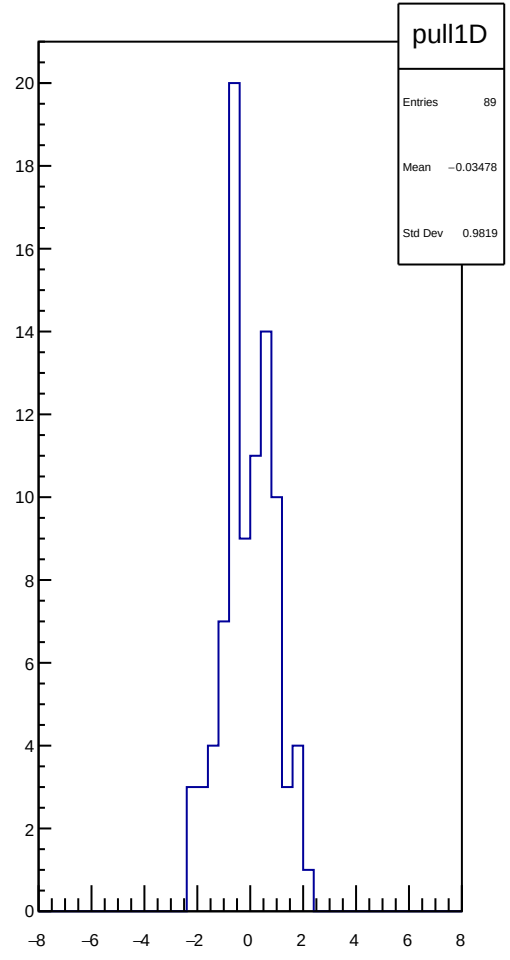

asym_usr_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.647e+04 / 88
p0 80.95 ± 0.0623
130
120
110
100
90
80
70
60

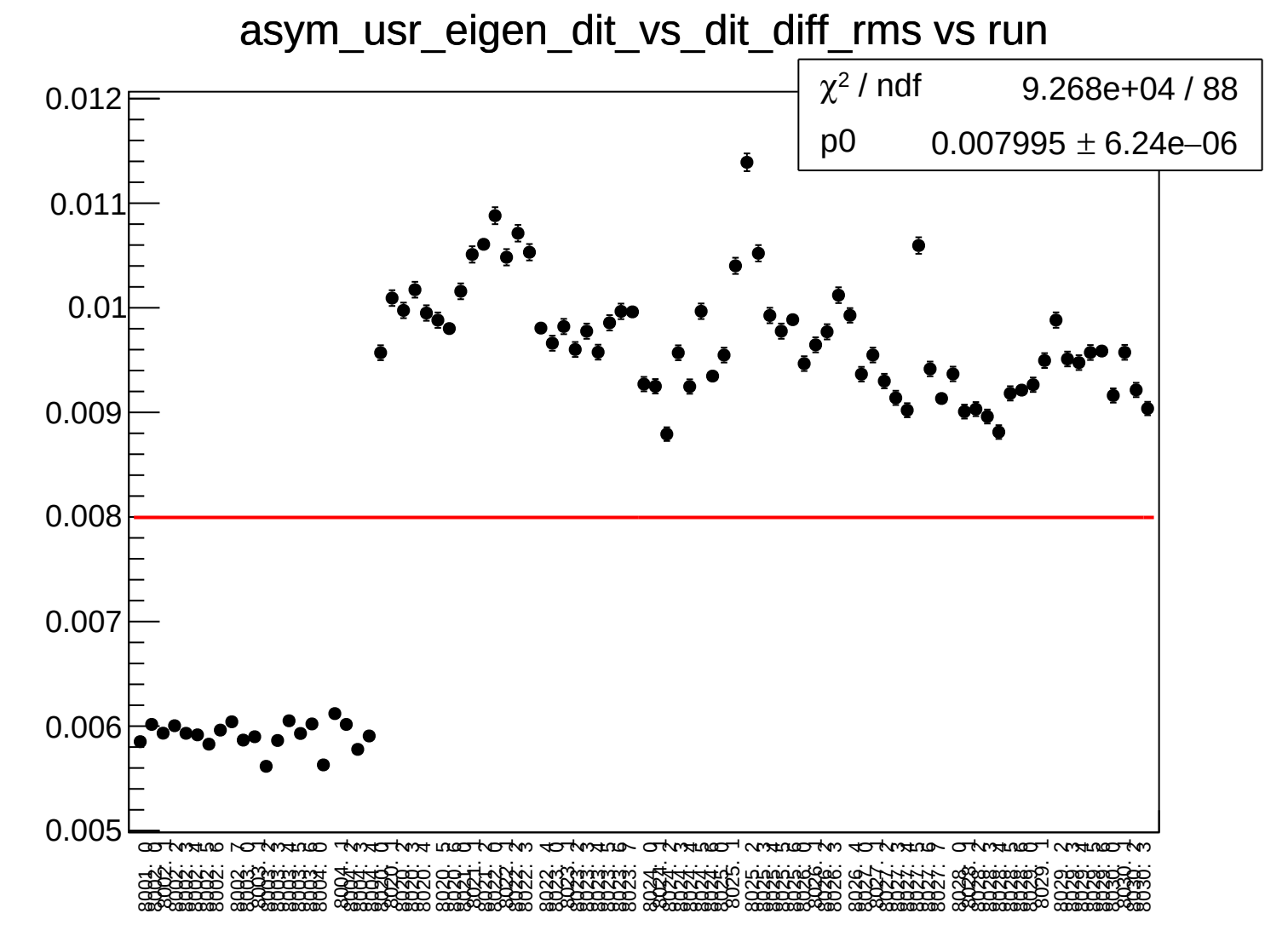

asym_usr_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 108.2 / 88
p0 0.1084 ± 0.1054
pull
Entries 89
Mean −322.6
Std Dev 0

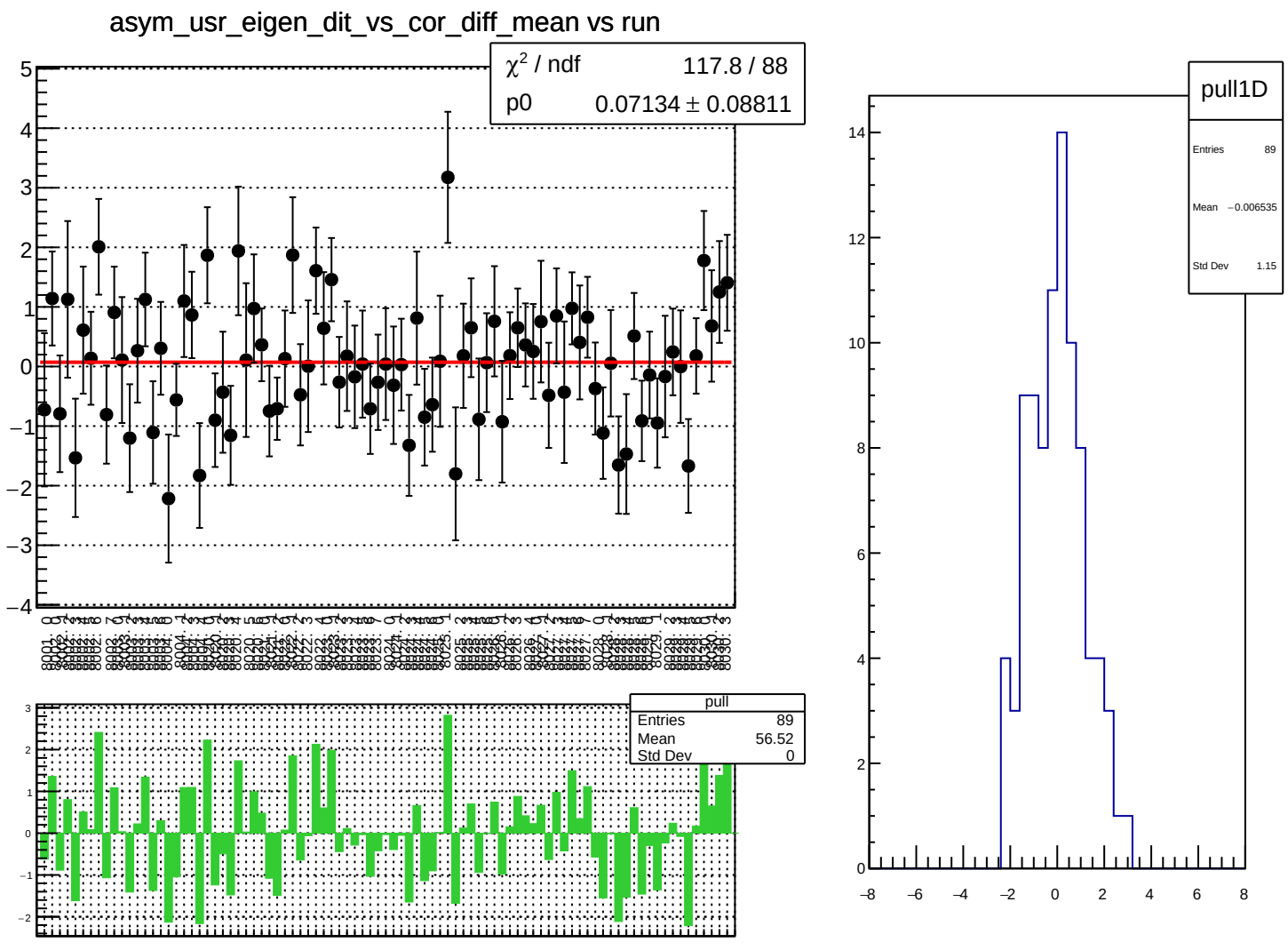

pull1D
Entries 89
Mean −0.006633
Std Dev 1.103

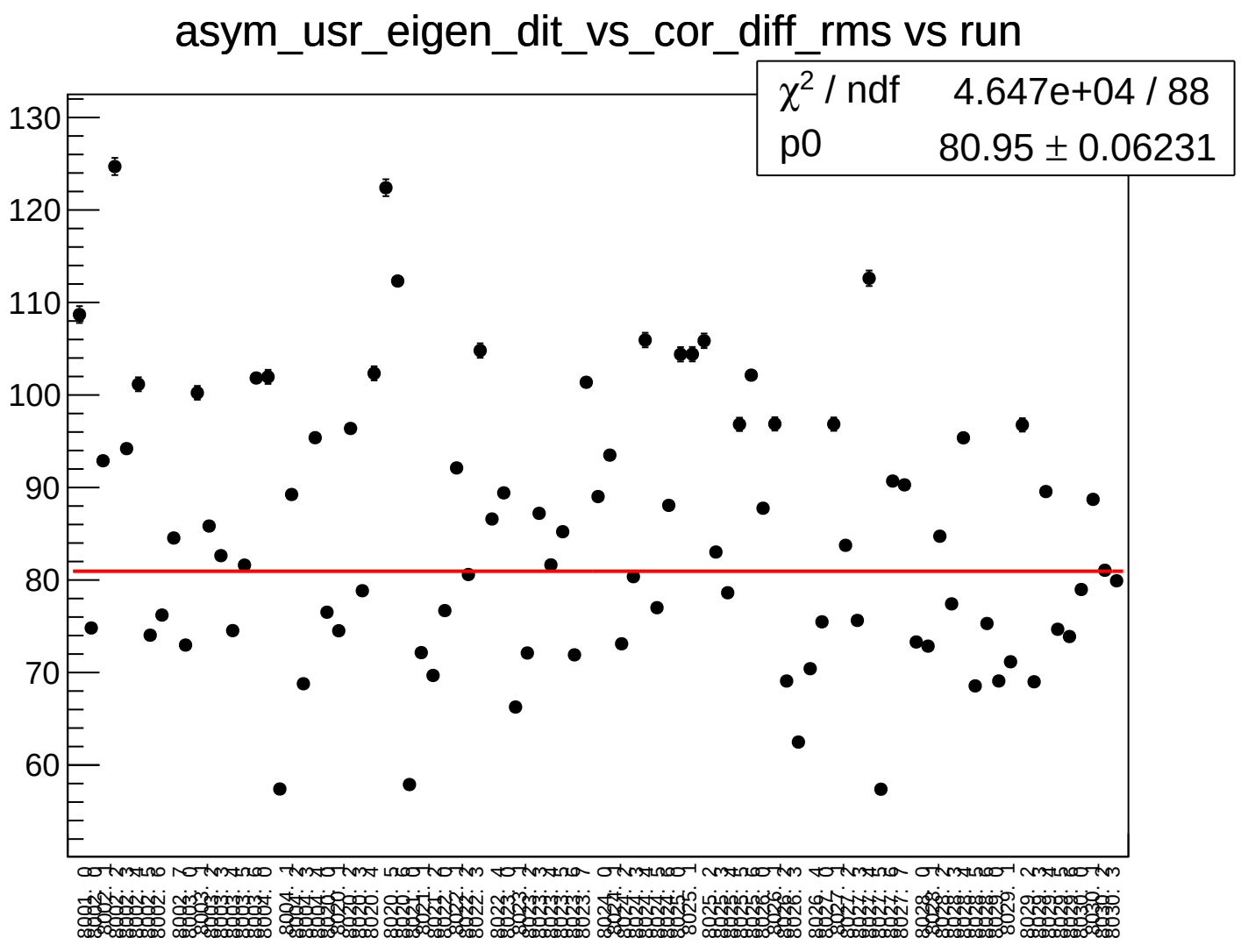

asym_usr_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 3.077e+04 / 88
p0 97.24 ± 0.0745
140
130
120
110
100
90
80
70

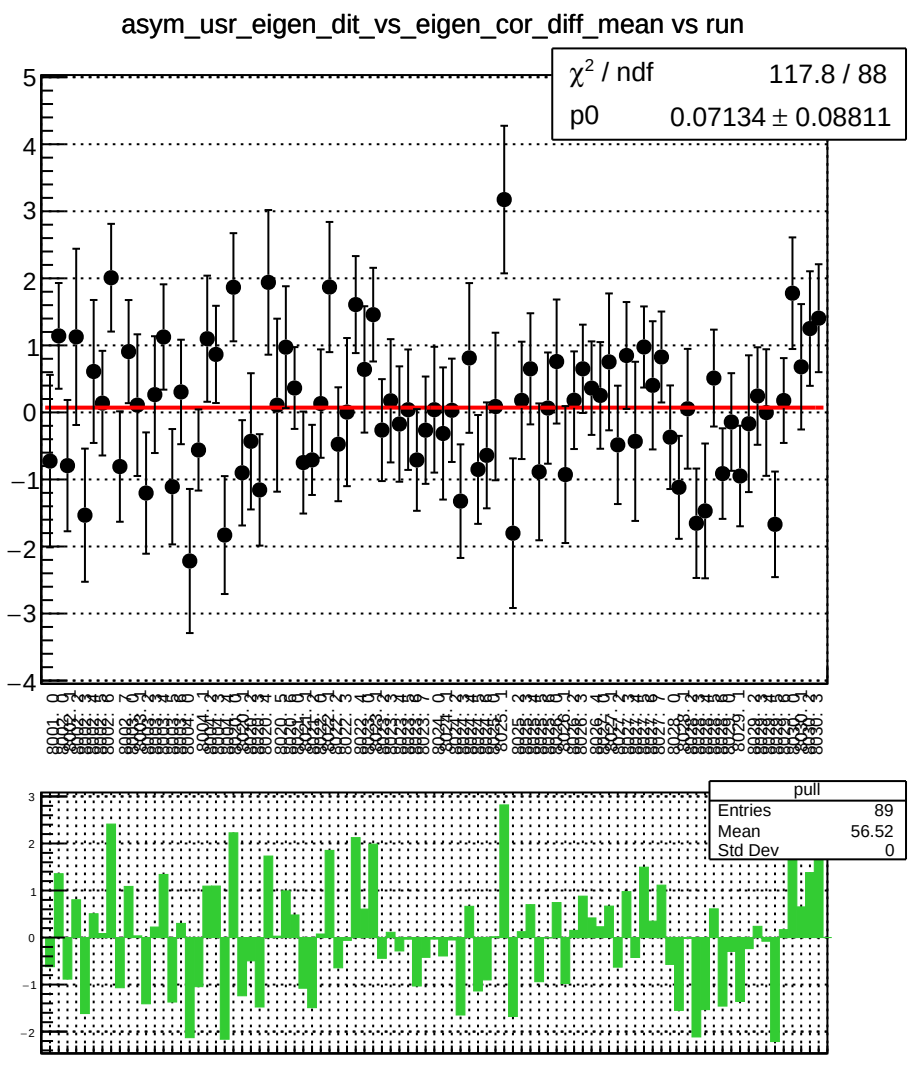

asym_usr_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.91 / 88
p0 9.607e−07 ± 8.824e−06
pull
Entries 89
Mean 148.4
Std Dev 0

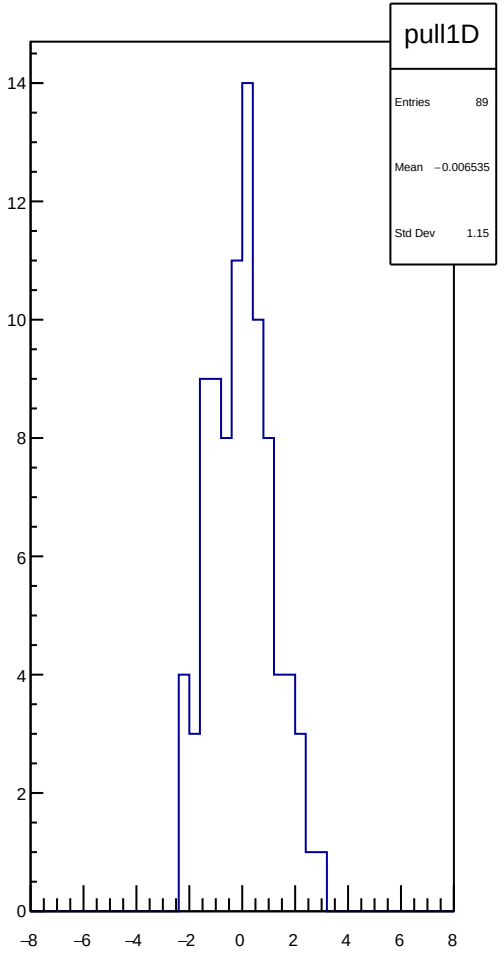

pull1D
Entries 89
Mean −0.03478
Std Dev 0.9819

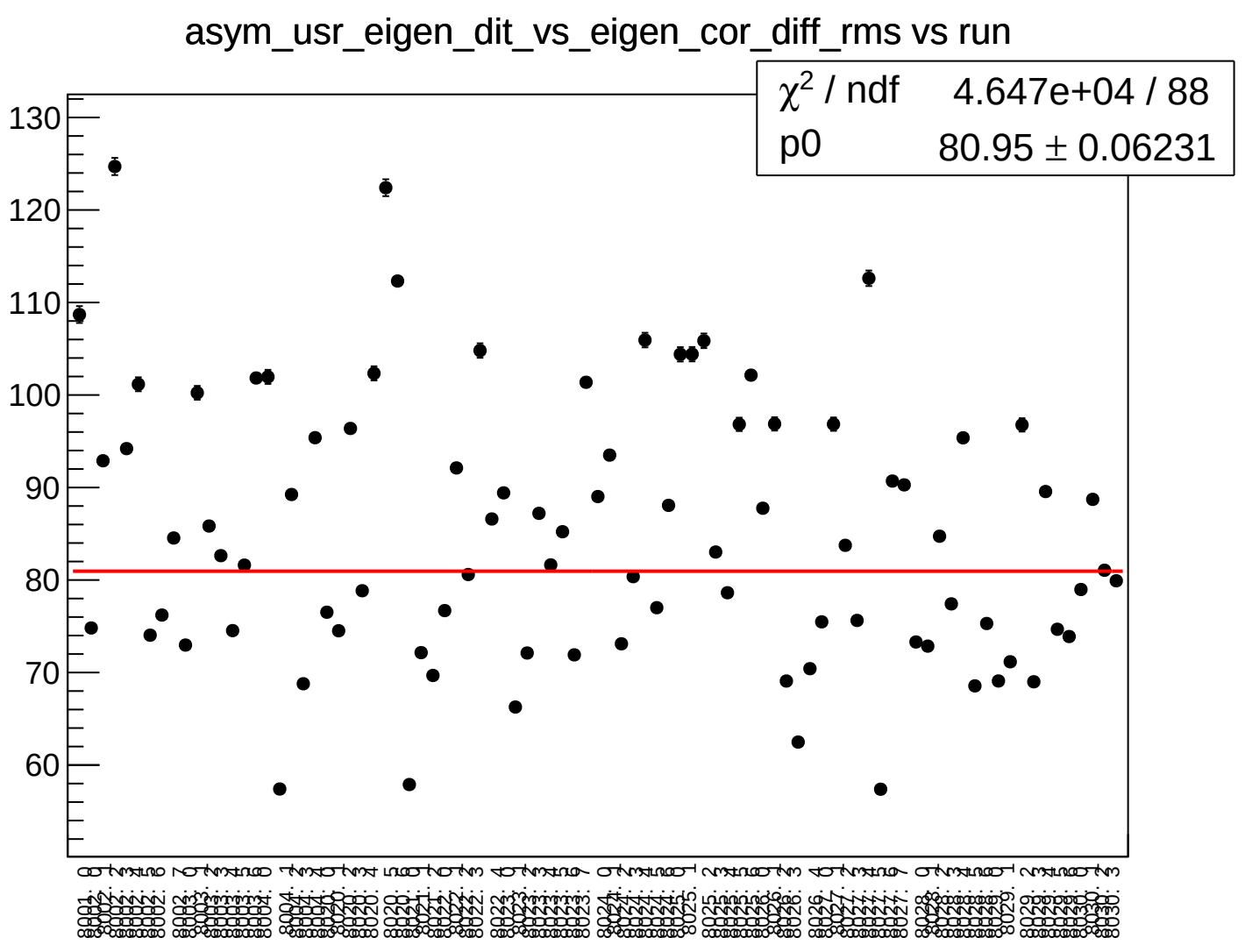

asym_usr_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.268e+04 / 88
p0 0.007995 ± 6.24e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005

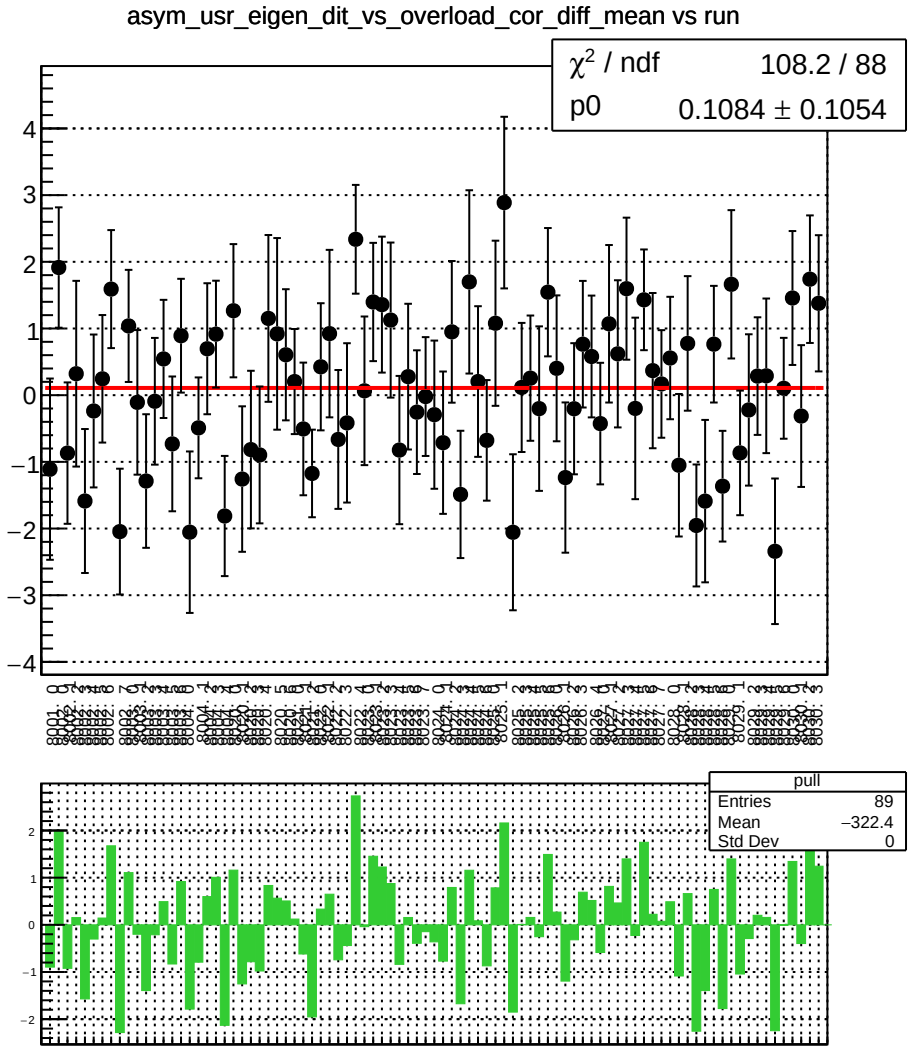

asym_usr_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 117.8 / 88
p0 0.07134 ± 0.08811
pull
Entries 89
Mean 56.52
Std Dev 0
pull1D
Entries 89
Mean −0.006535
Std Dev 1.15

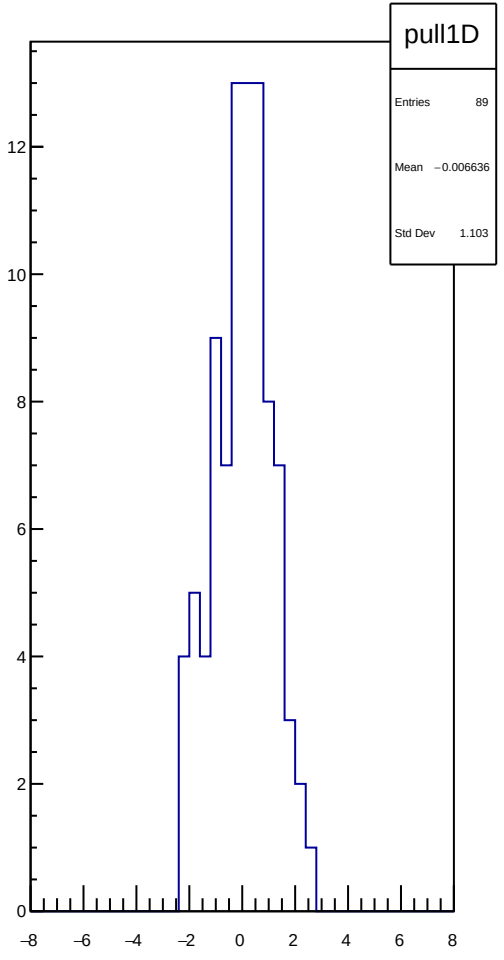

asym_usr_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 4.647e+04 / 88
p0 80.95 ± 0.06231
130
120
110
100
90
80
70
60

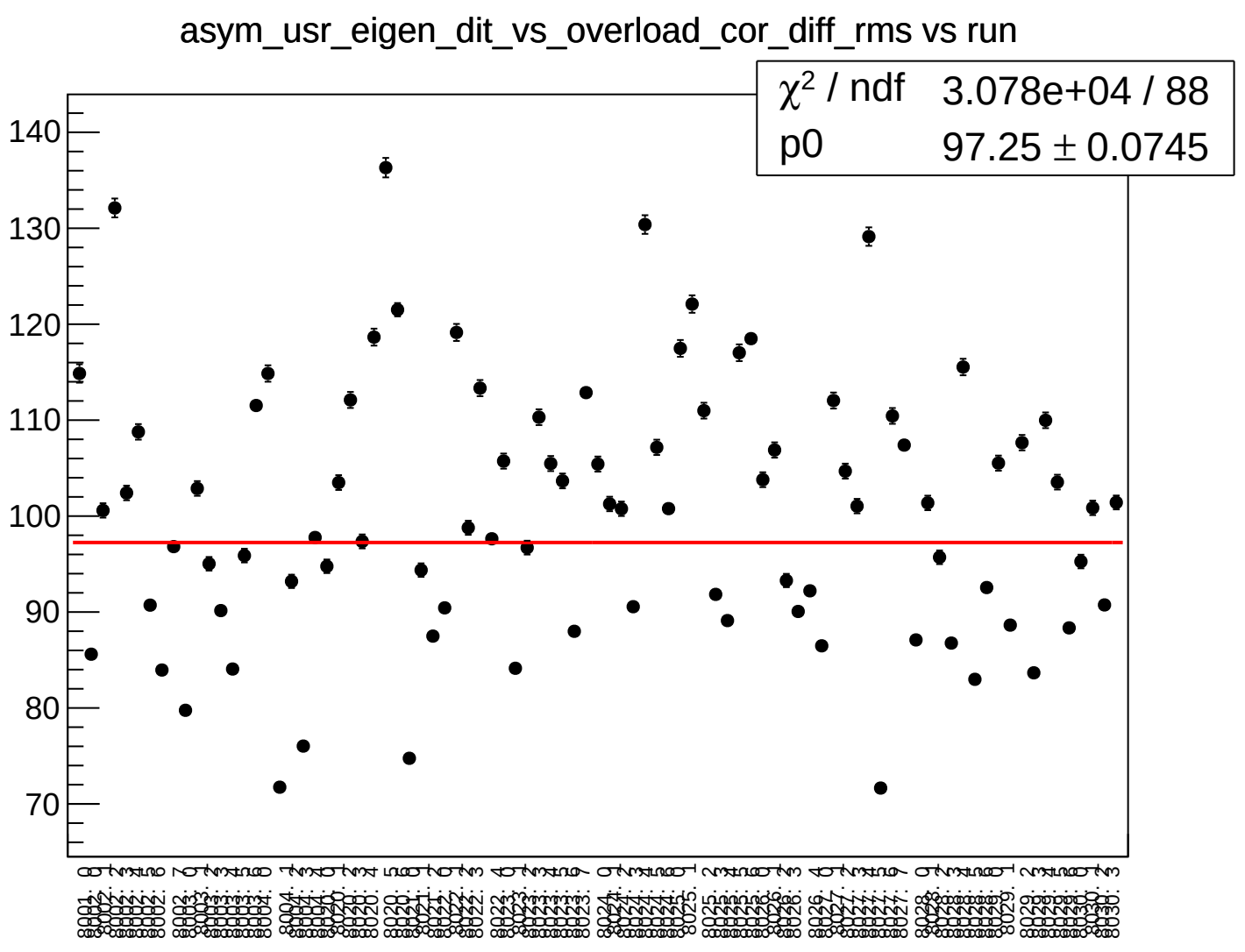

asym_usr_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 117.8 / 88
p0 0.07134 ± 0.08811
pull
Entries 89
Mean 56.52
Std Dev 0

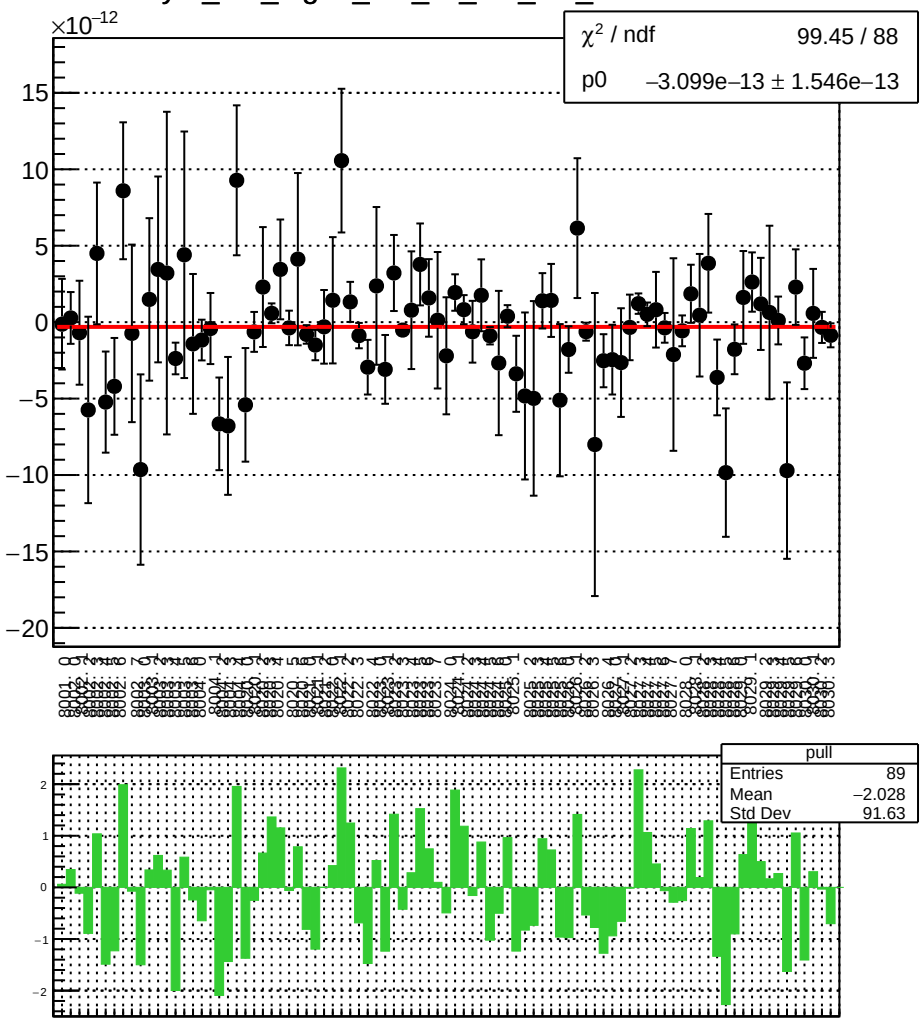

pull1D
Entries 89
Mean −0.006535
Std Dev 1.15

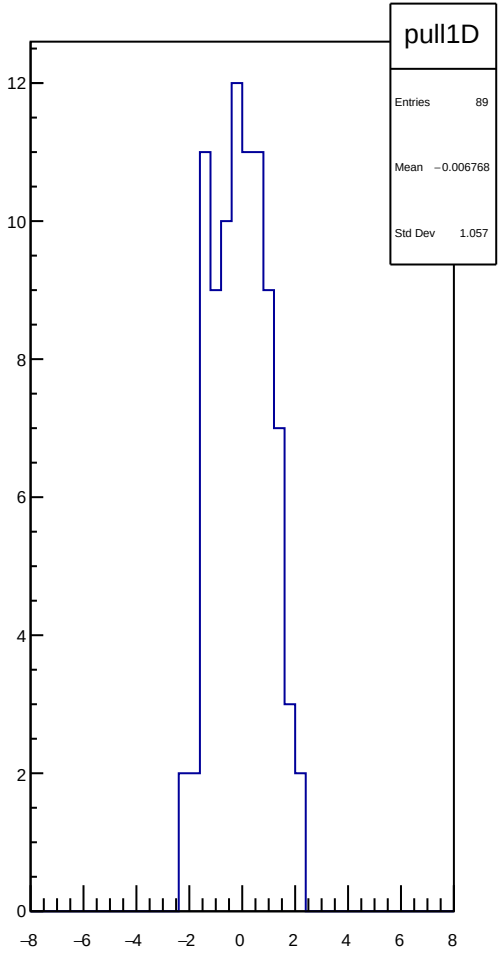

asym_usr_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.647e+04 / 88
p0 80.95 ± 0.06231
130
120
110
100
90
80
70
60

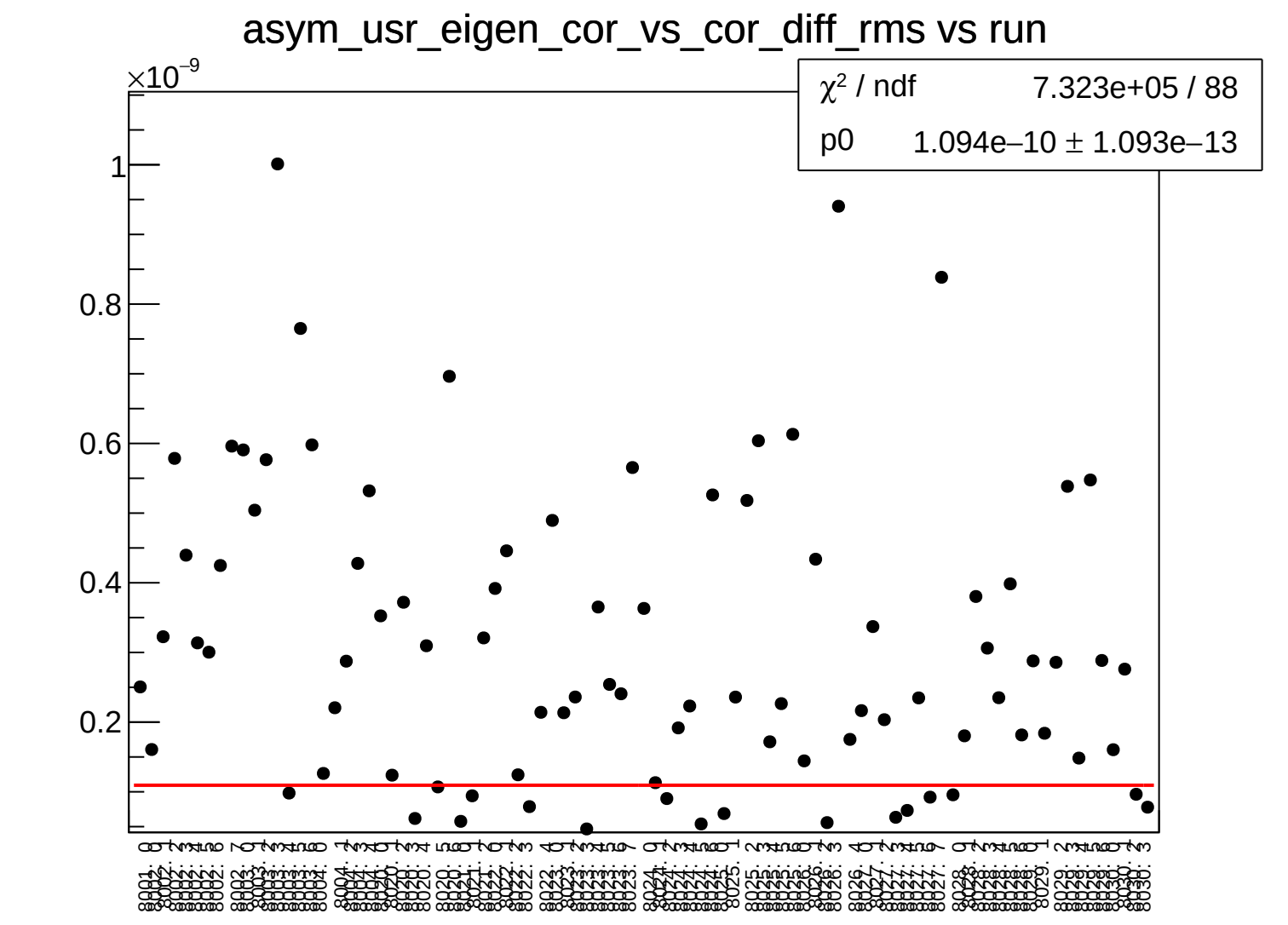

asym_usr_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 108.2 / 88
p0 0.1084 ± 0.1054
pull
Entries 89
Mean −322.4
Std Dev 0

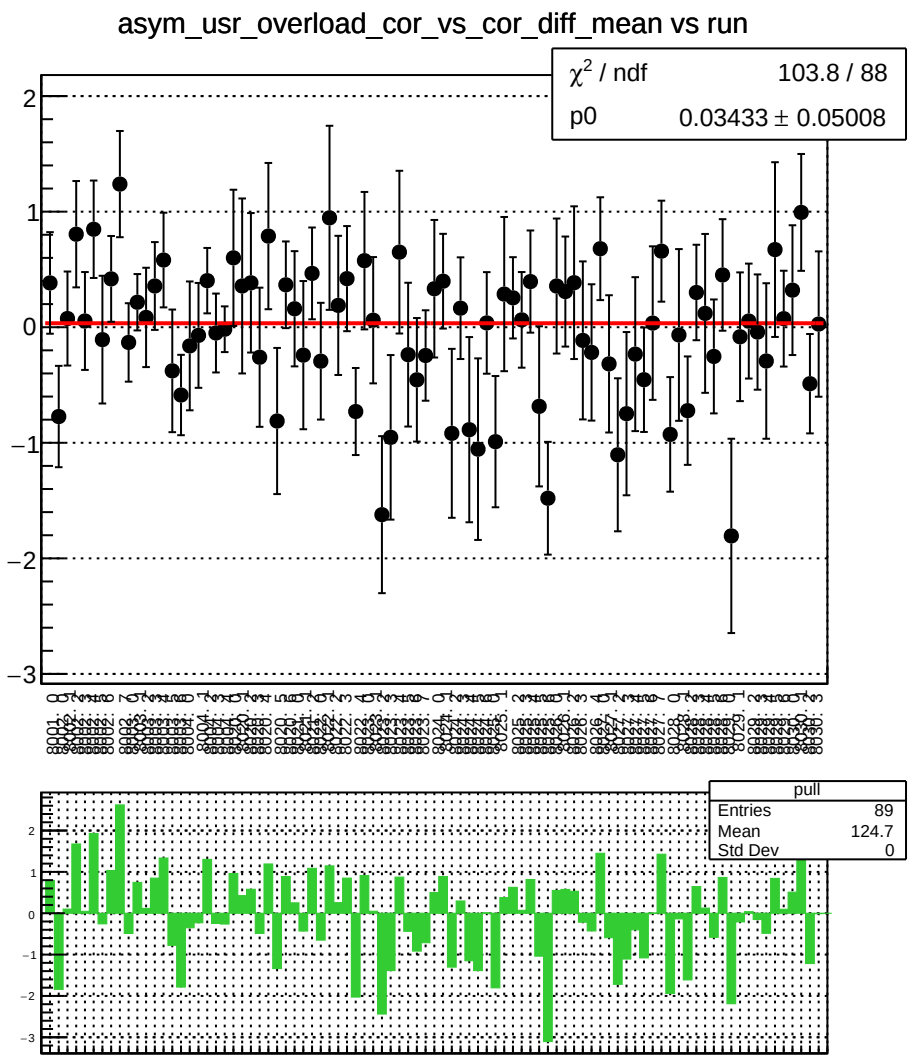

pull1D
Entries 89
Mean −0.006636
Std Dev 1.103

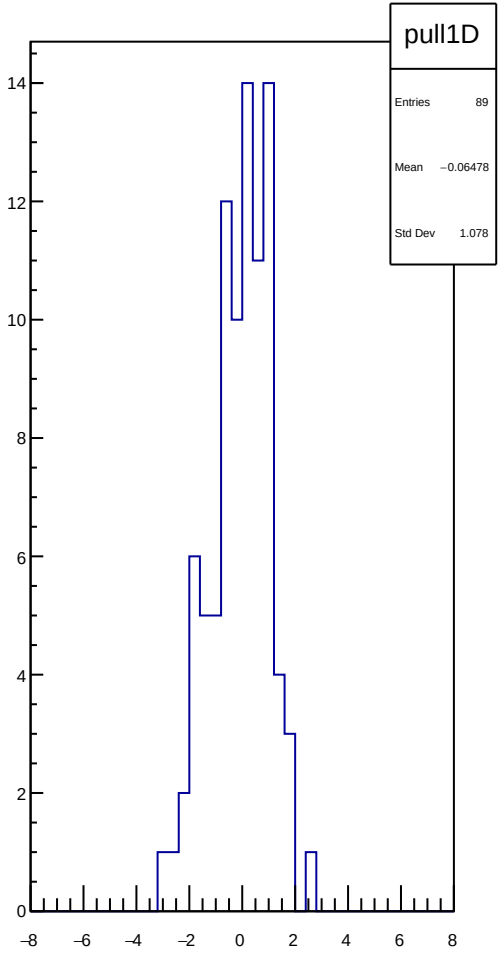

asym_usr_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 3.078e+04 / 88
p0 97.25 ± 0.0745
140
130
120
110
100
90
80
70

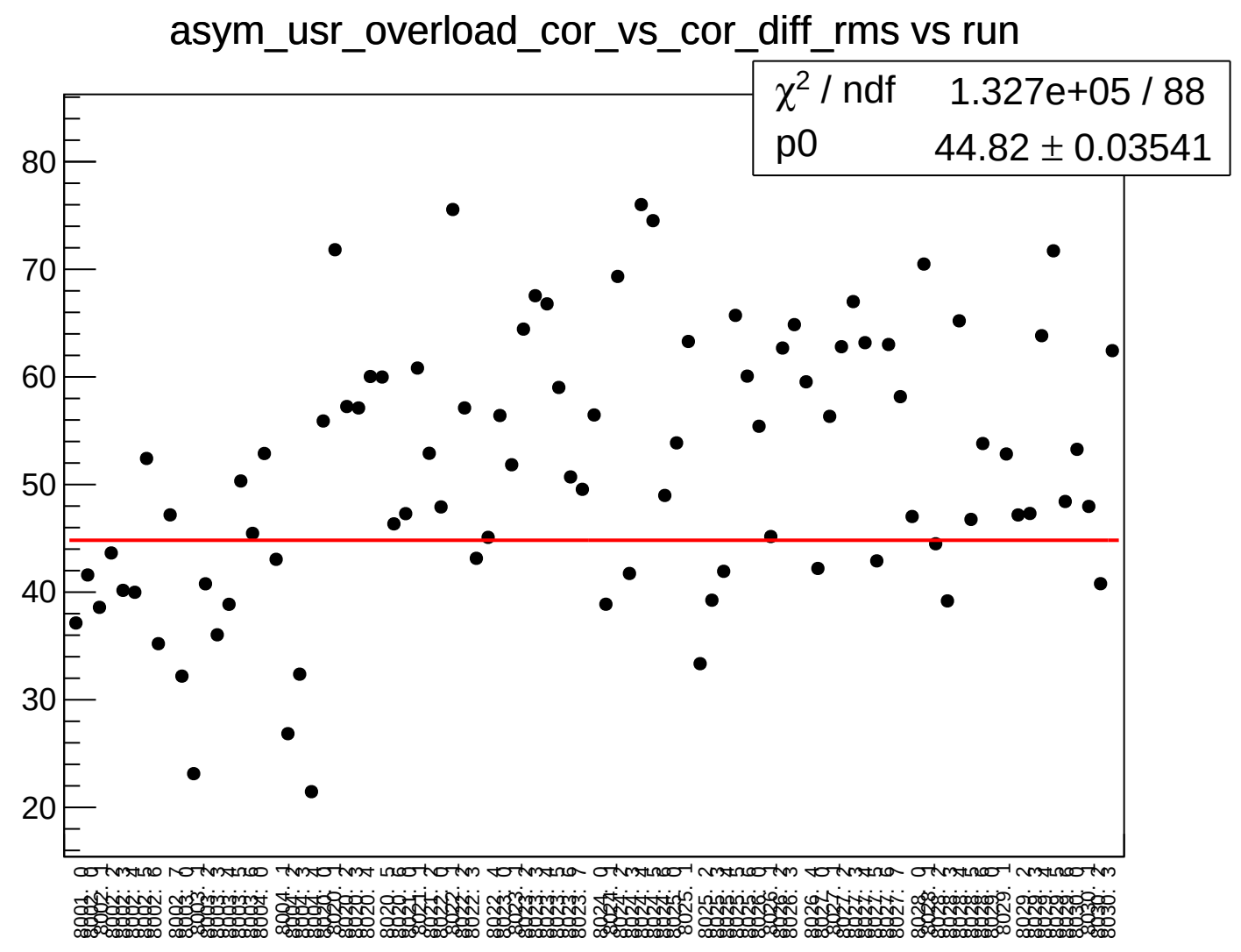

asym_usr_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.45 / 88
p0 −3.099e−13 ± 1.546e−13
pull
Entries 89
Mean −2.028
Std Dev 91.63

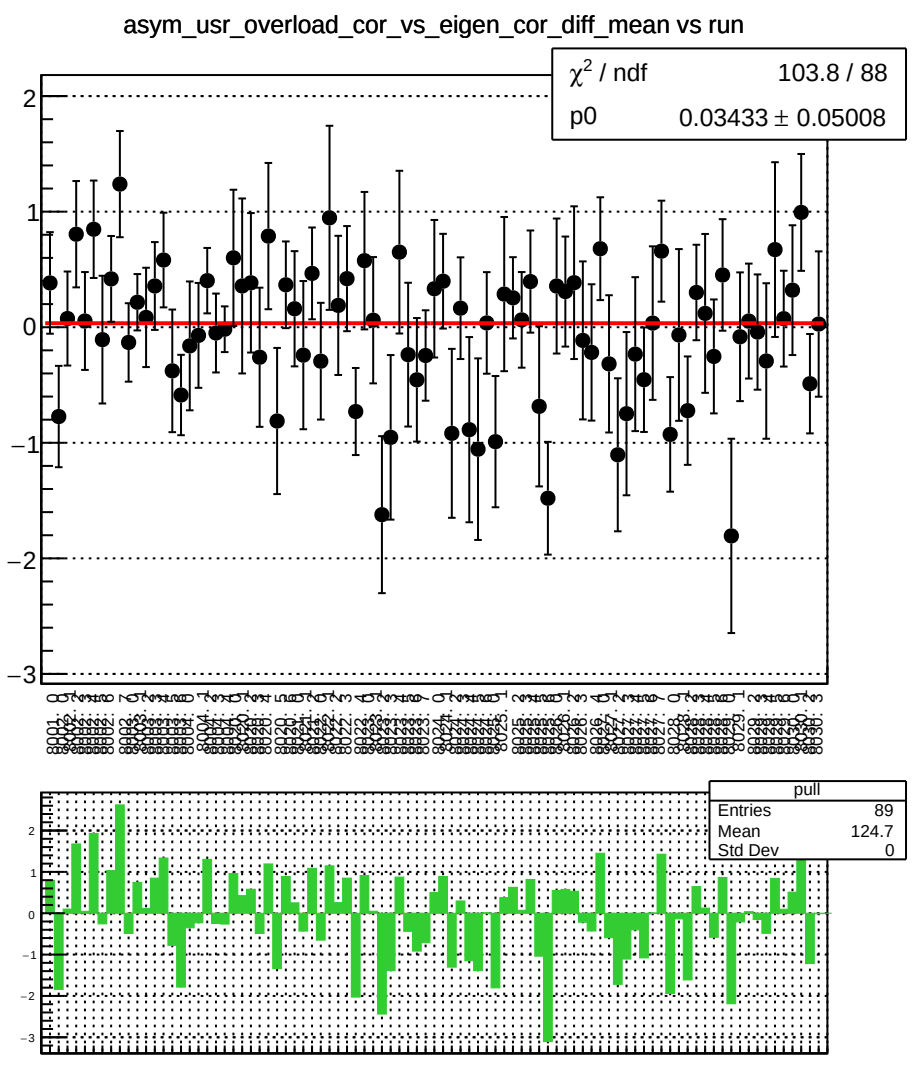

pull1D
Entries 89
Mean −0.006768
Std Dev 1.057

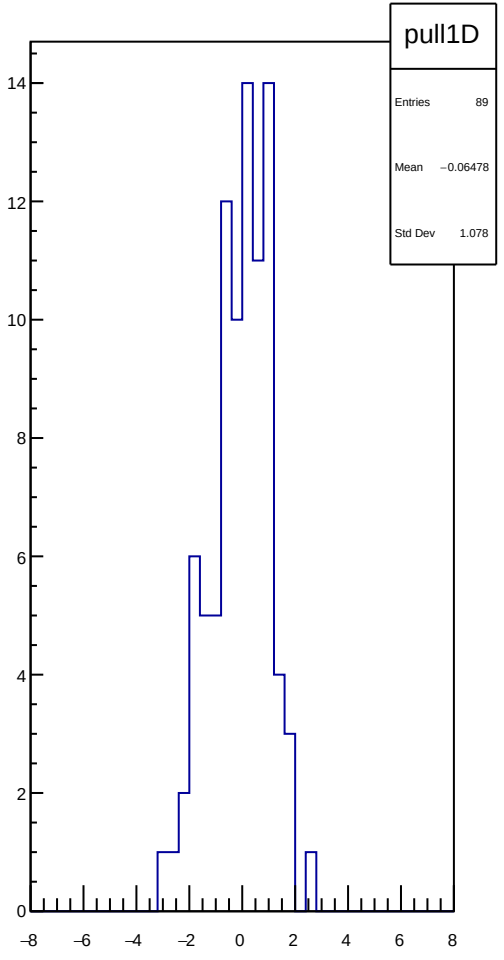

asym_usr_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.323e+05 / 88
p0 1.094e−10 ± 1.093e−13
1
0.8
0.6
0.4
0.2

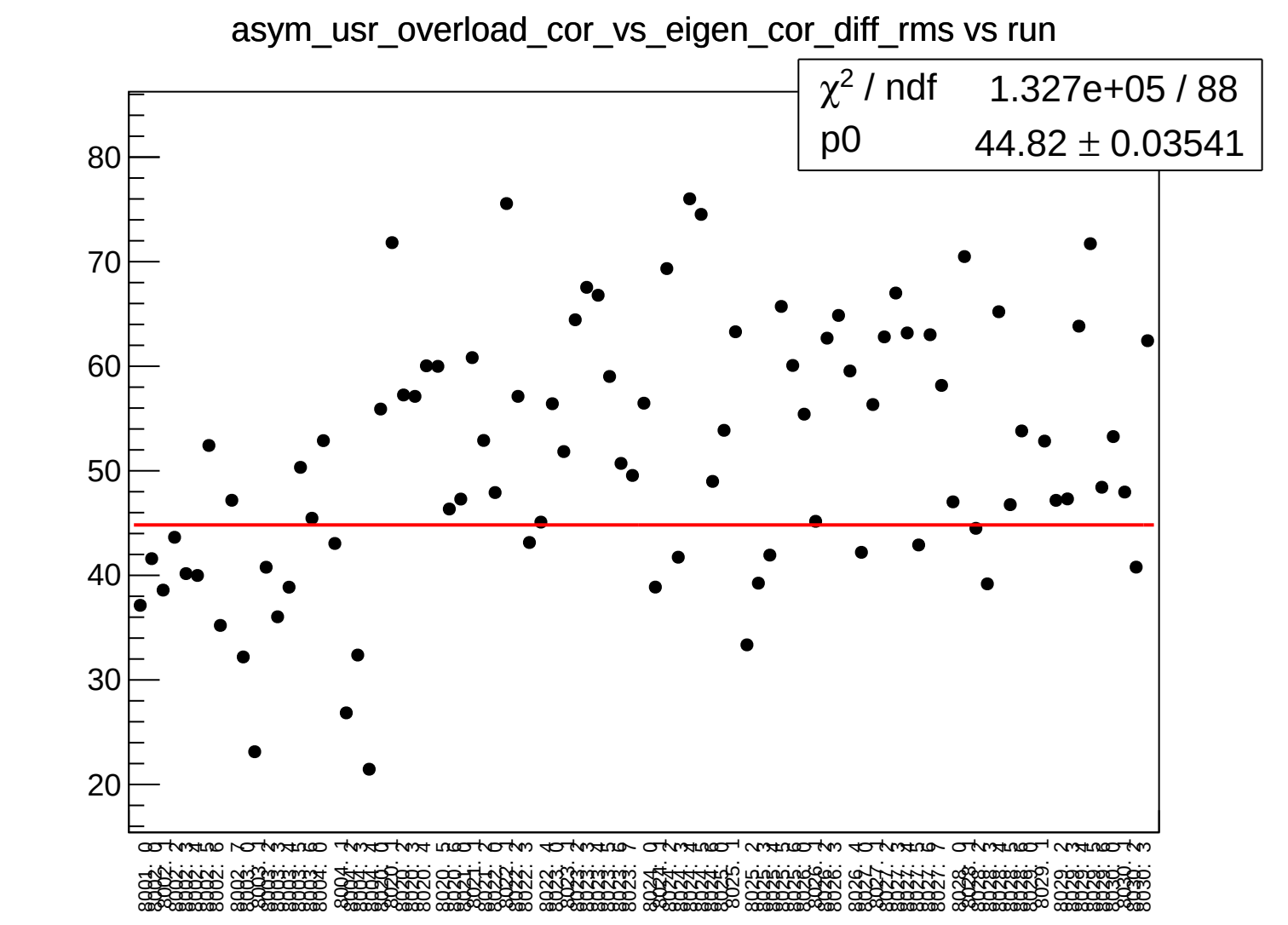

asym_usr_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 103.8 / 88
p0 0.03433 ± 0.05008
pull
Entries 89
Mean 124.7
Std Dev 0

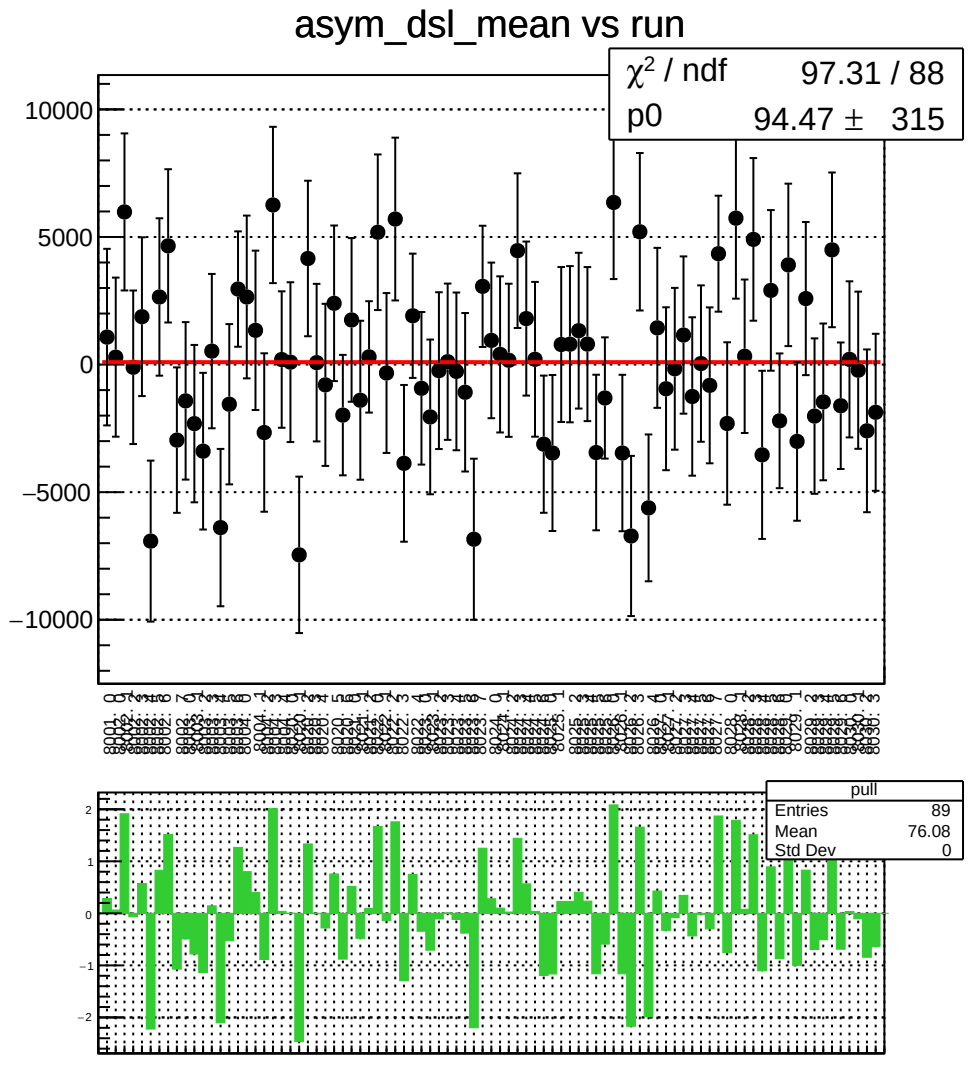

pull1D
Entries 89
Mean −0.06478
Std Dev 1.078

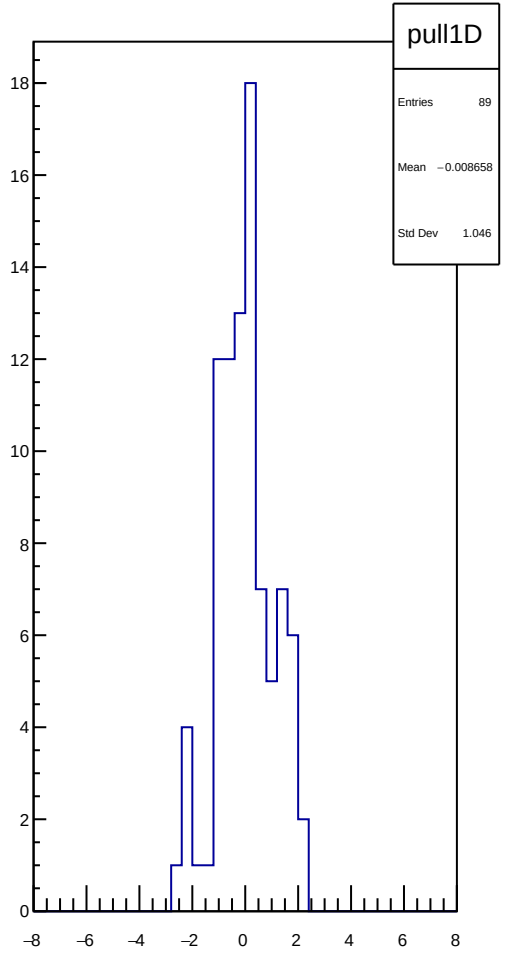

asym_usr_overload_cor_vs_cor_diff_rms vs run
χ^2 / ndf 1.327e+05 / 88
p0 44.82 ± 0.03541
80
70
60
50
40
30
20

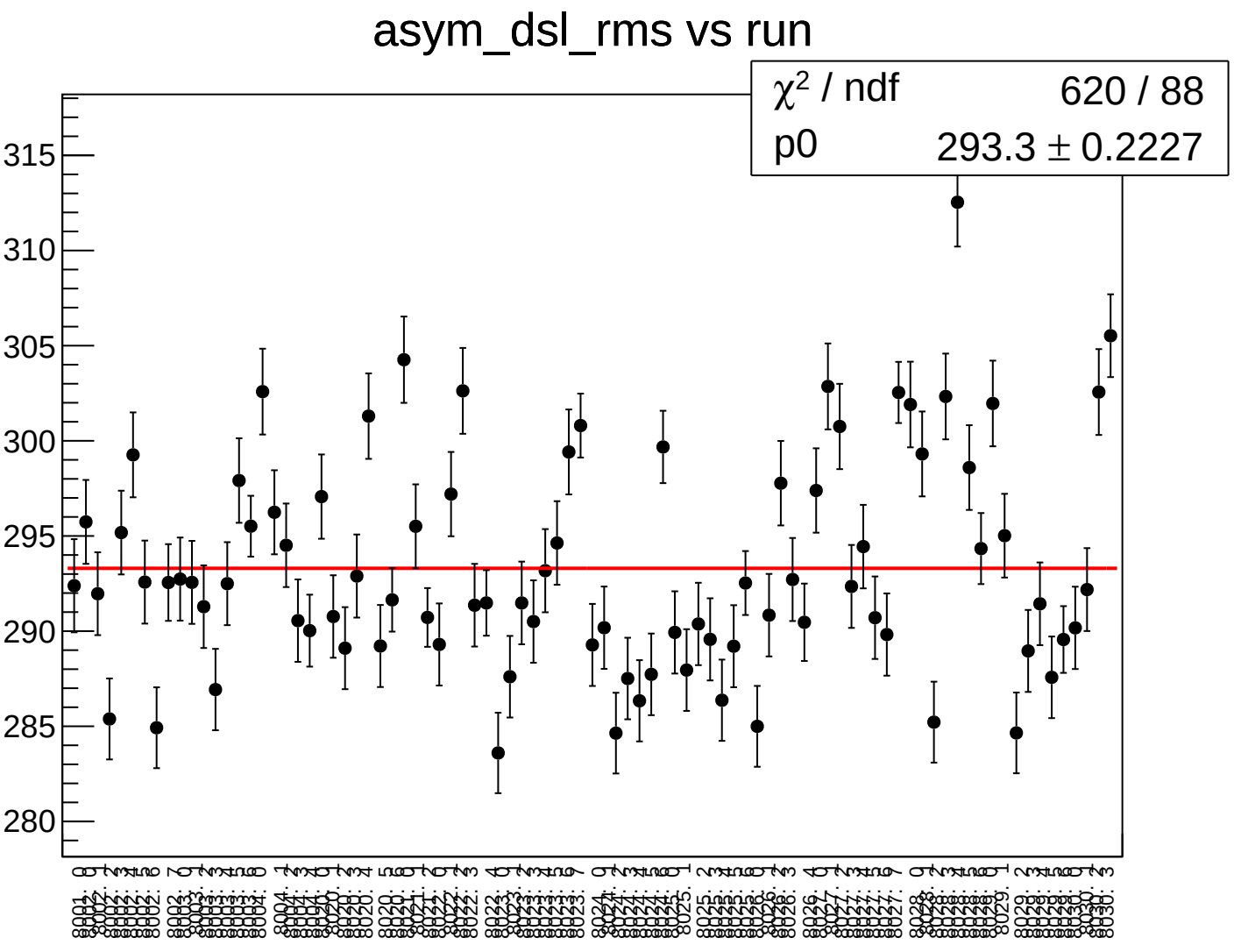

asym_usr_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.8 / 88
p0 0.03433 ± 0.05008
pull
Entries 89
Mean 124.7
Std Dev 0

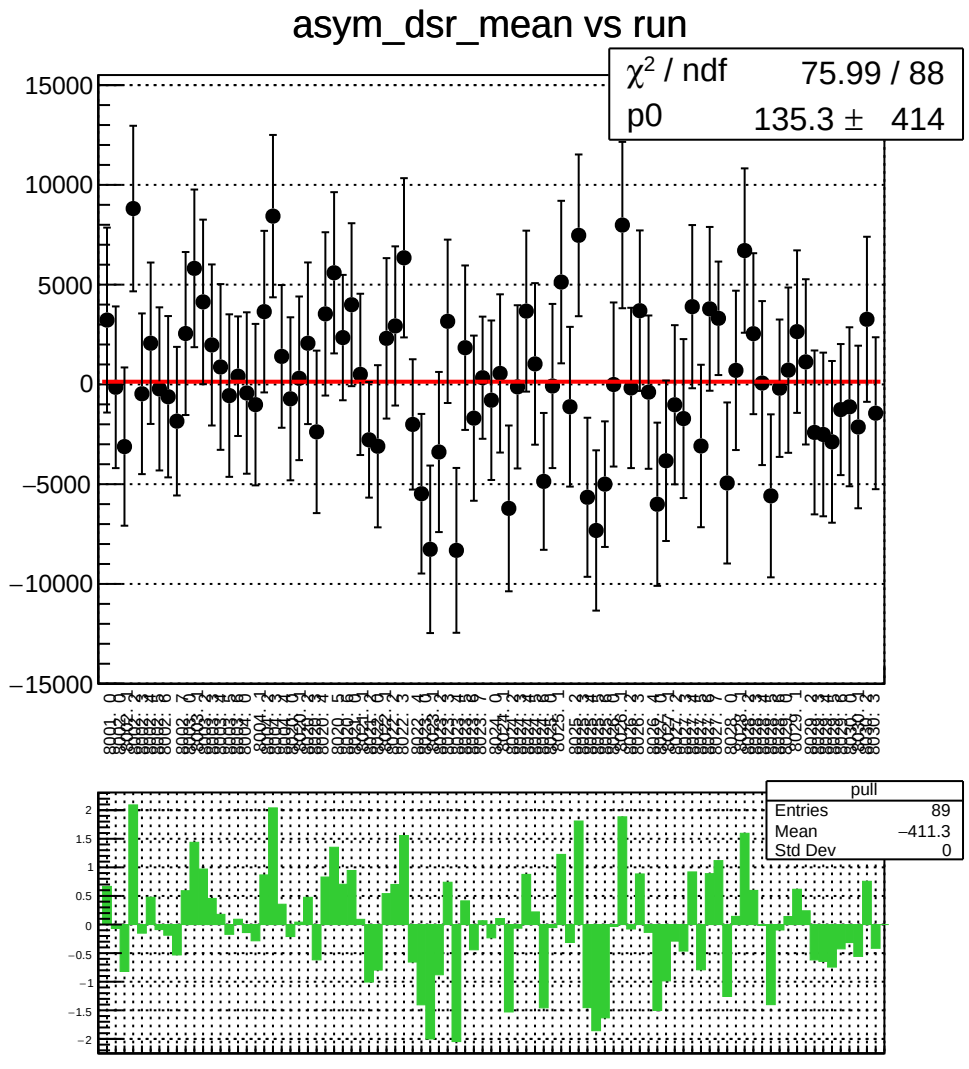

pull1D
Entries 89
Mean −0.06478
Std Dev 1.078

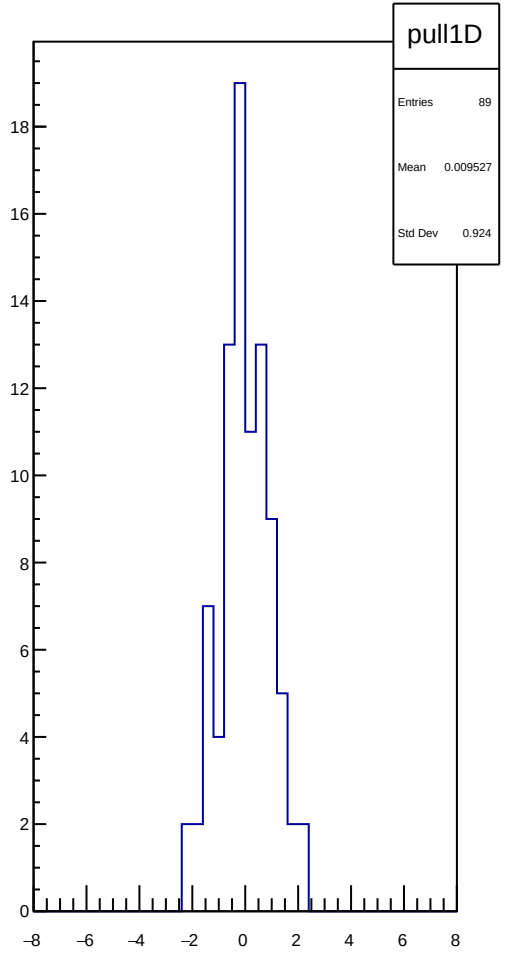

asym_usr_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.327e+05 / 88
p0 44.82 ± 0.03541
80
70
60
50
40
30
20

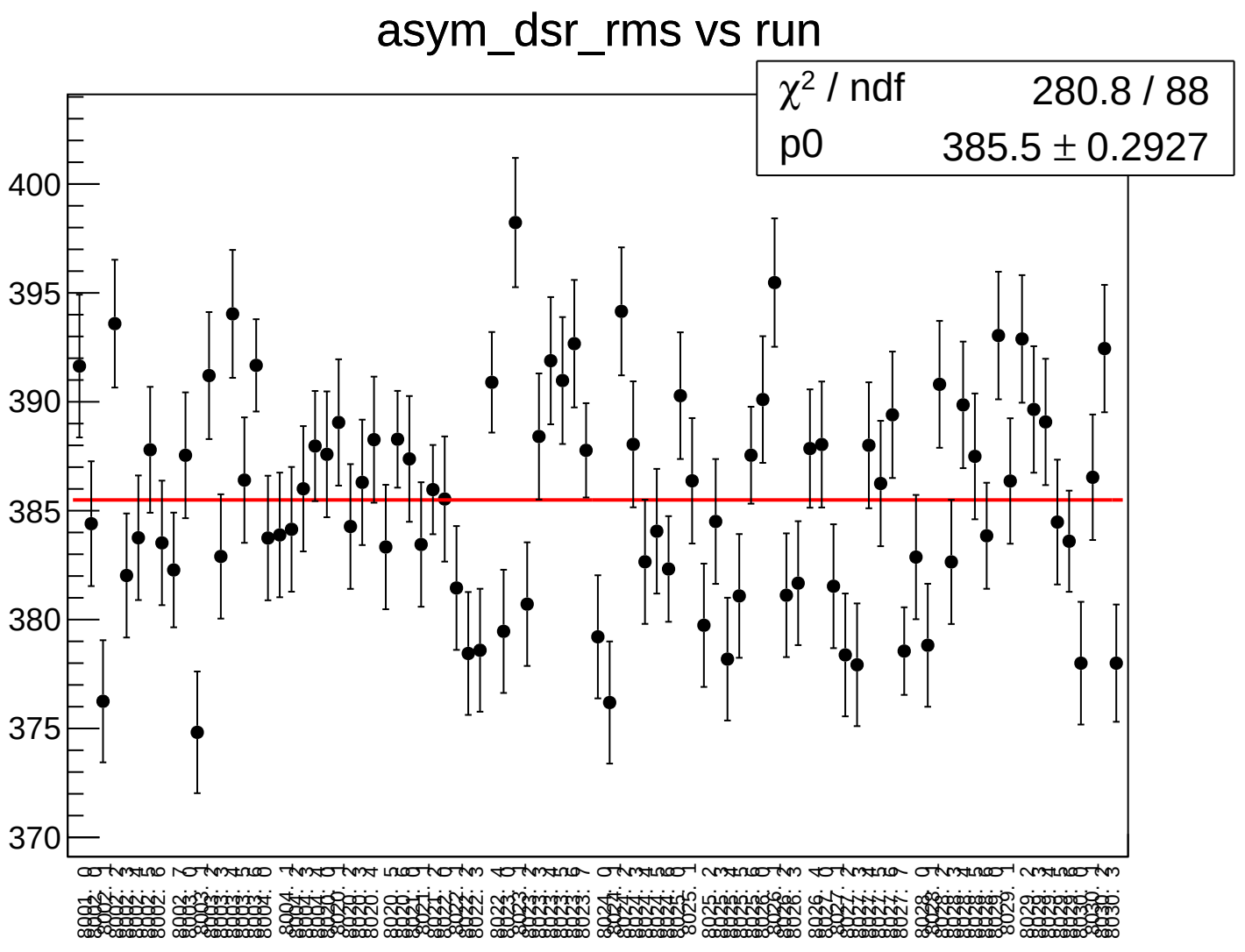

asym_dsl_mean vs run
χ² / ndf 97.31 / 88
p0 94.47 ± 315
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 76.08
Std Dev 0
2
1
0
−1
−2

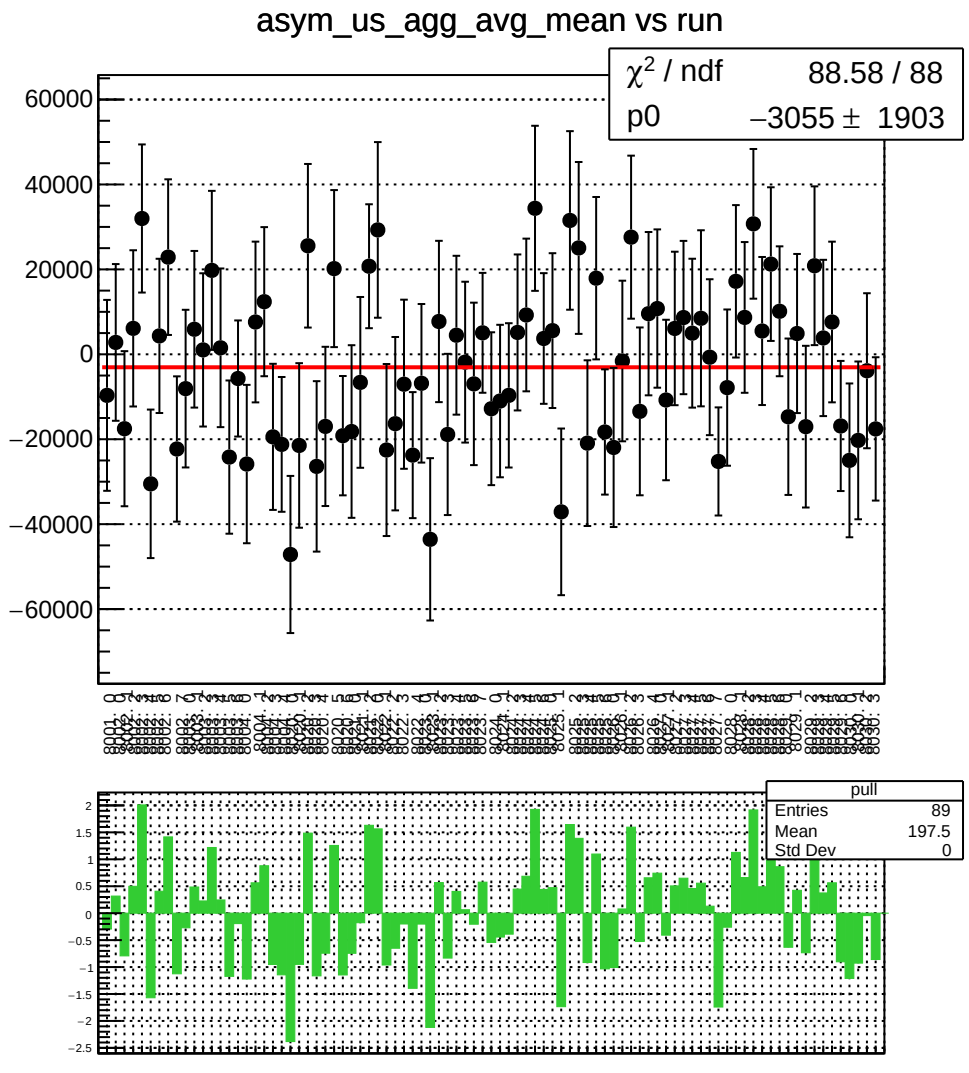

pull1D
Entries 89
Mean −0.008658
Std Dev 1.046
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

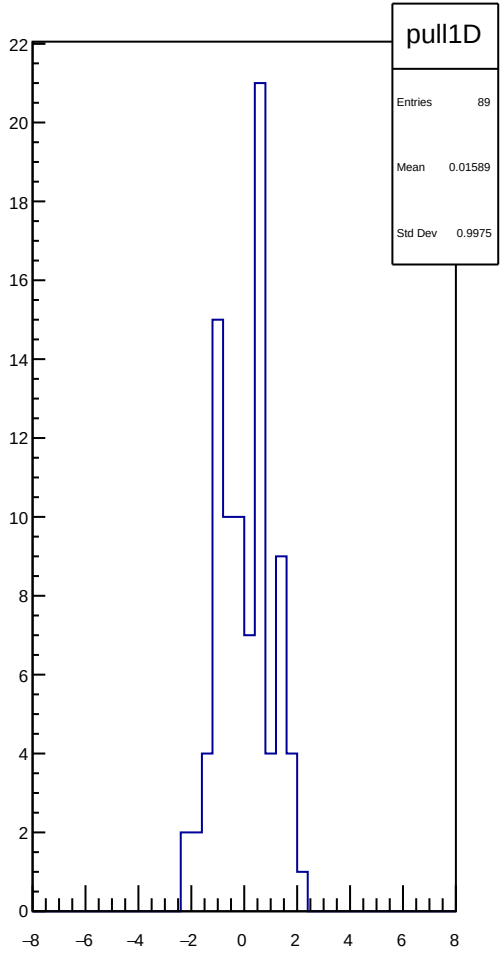

asym_dsl_rms vs run
χ² / ndf 620 / 88
p0 293.3 ± 0.2227
315
310
305
300
295
290
285
280

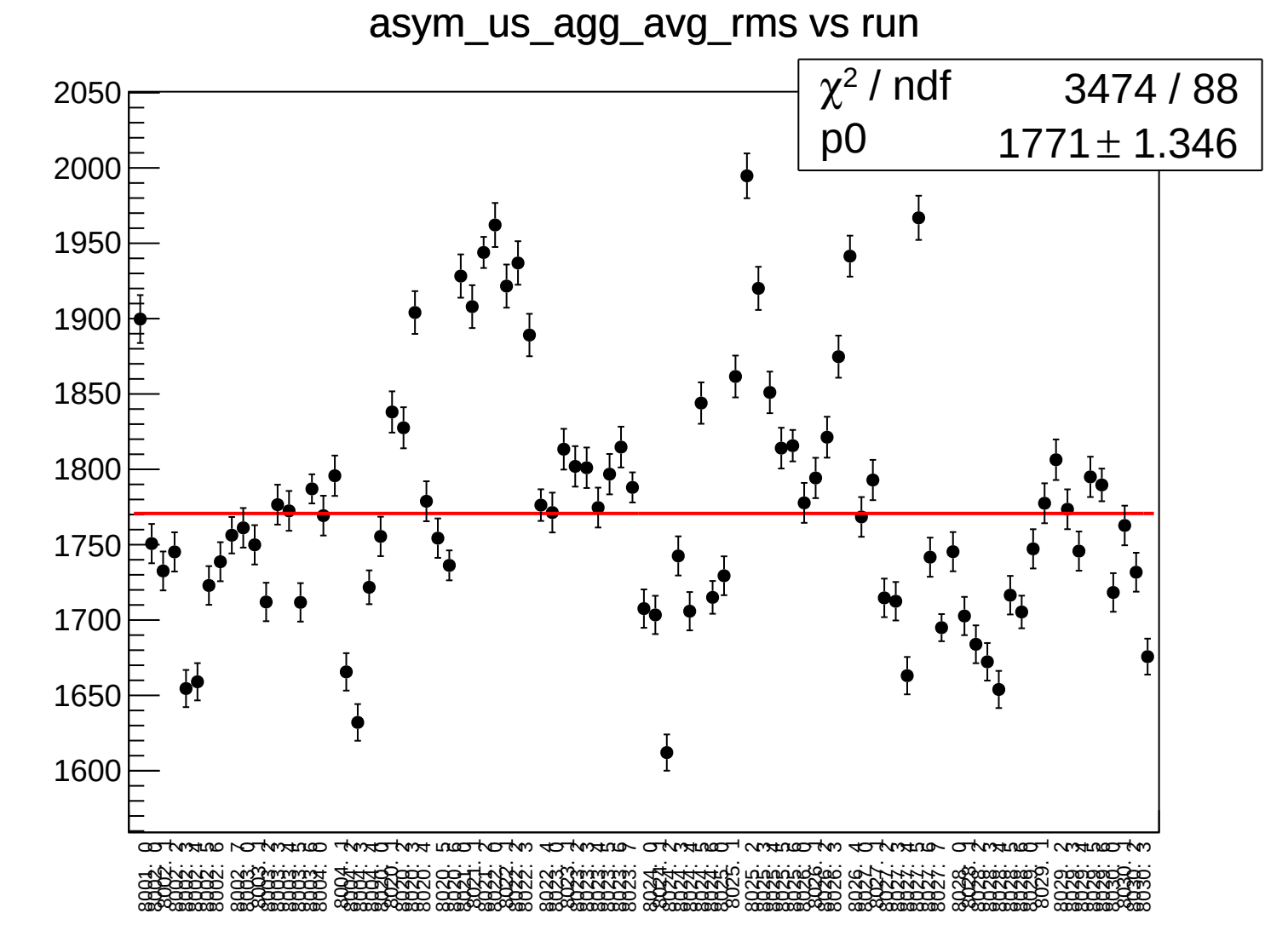

asym_dsr_mean vs run
χ² / ndf 75.99 / 88
p0 135.3 ± 414
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −411.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

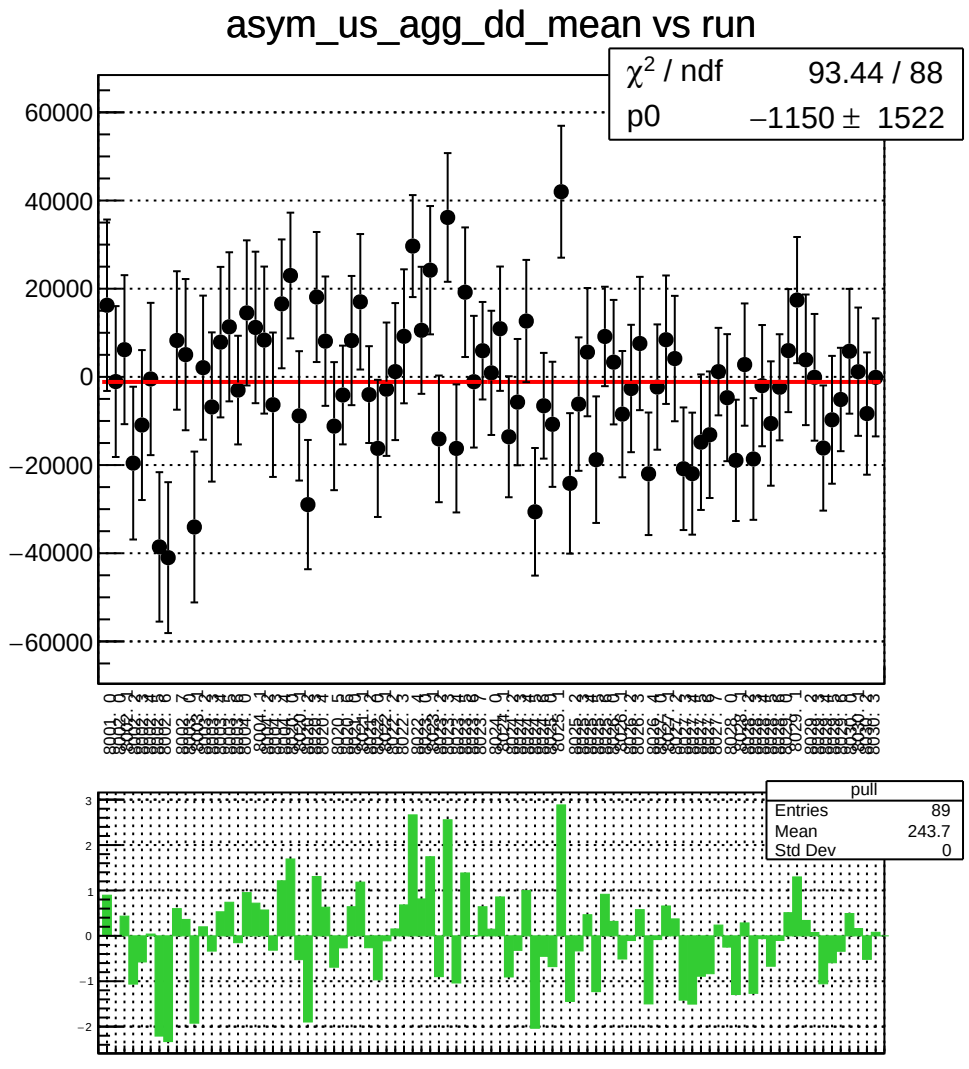

pull1D
Entries 89
Mean 0.009527
Std Dev 0.924
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

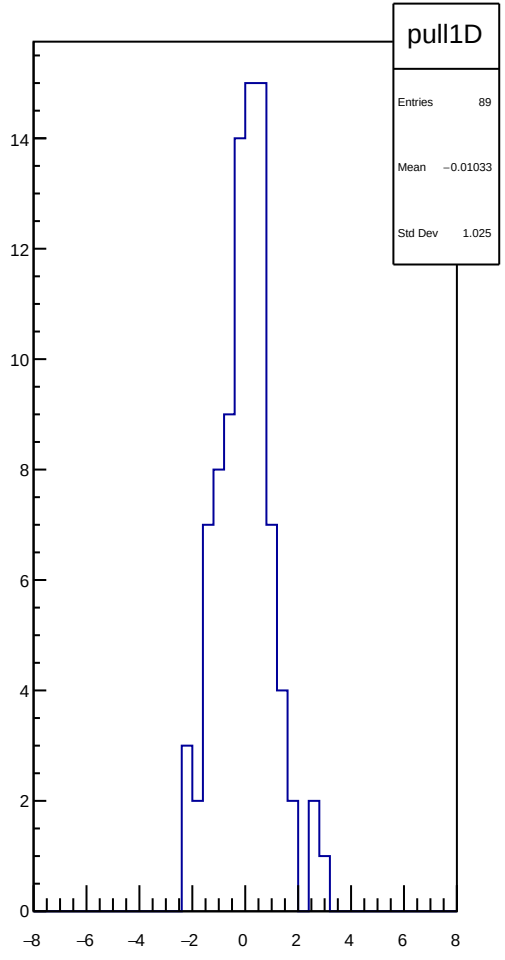

asym_dsr_rms vs run
χ² / ndf 280.8 / 88
p0 385.5 ± 0.2927
400
395
390
385
380
375
370

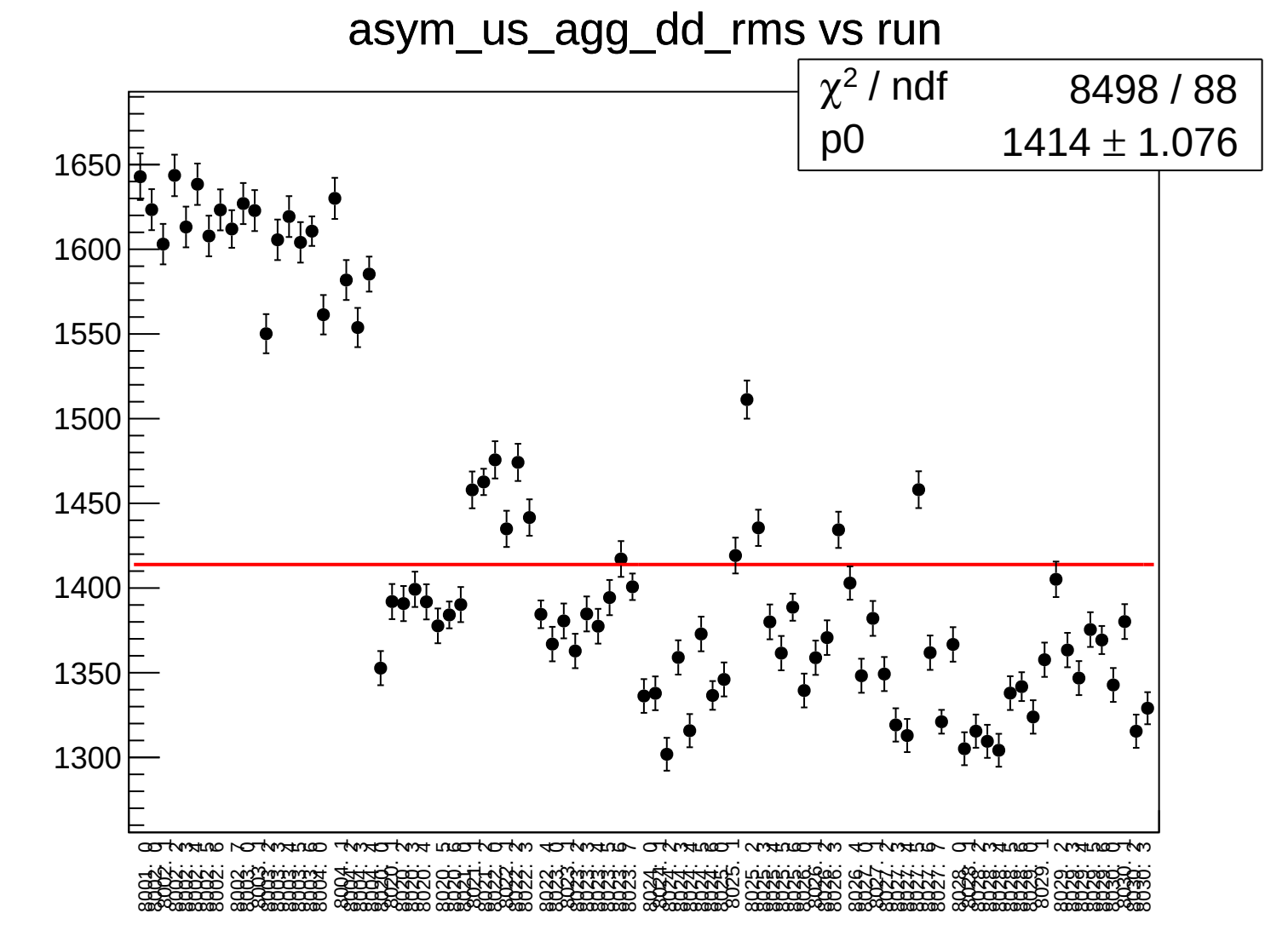

asym_us_agg_avg_mean vs run
χ² / ndf 88.58 / 88
p0 −3055 ± 1903
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 197.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

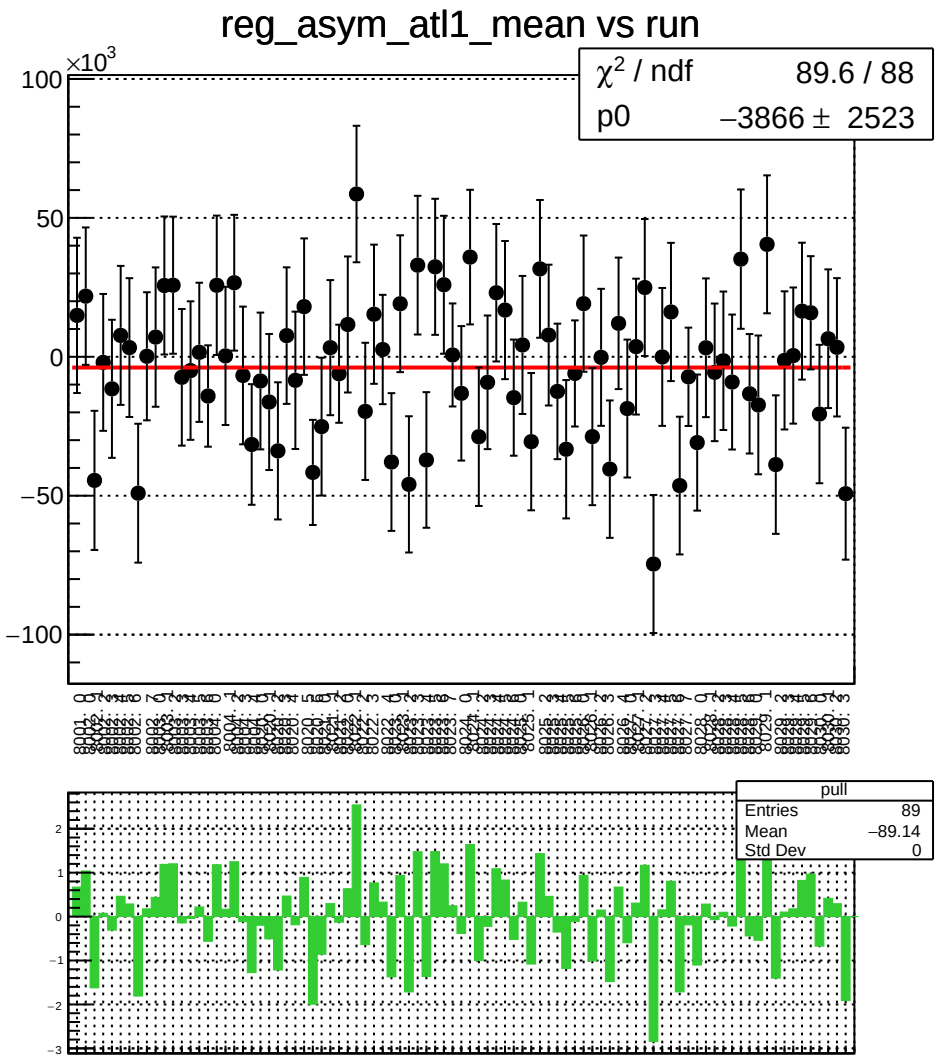

pull1D
Entries 89
Mean 0.01589
Std Dev 0.9975
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

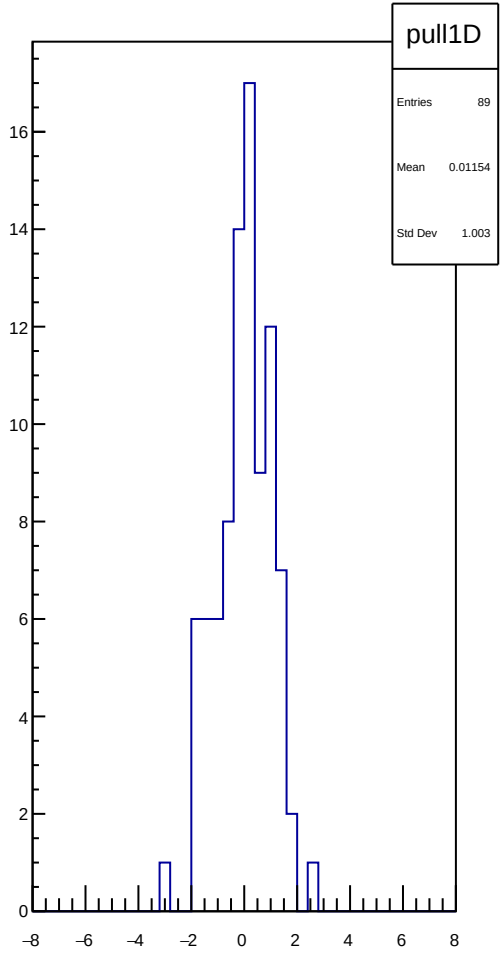

asym_us_agg_avg_rms vs run
χ² / ndf 3474 / 88
p0 1771 ± 1.346
2050
2000
1950
1900
1850
1800
1750
1700
1650
1600

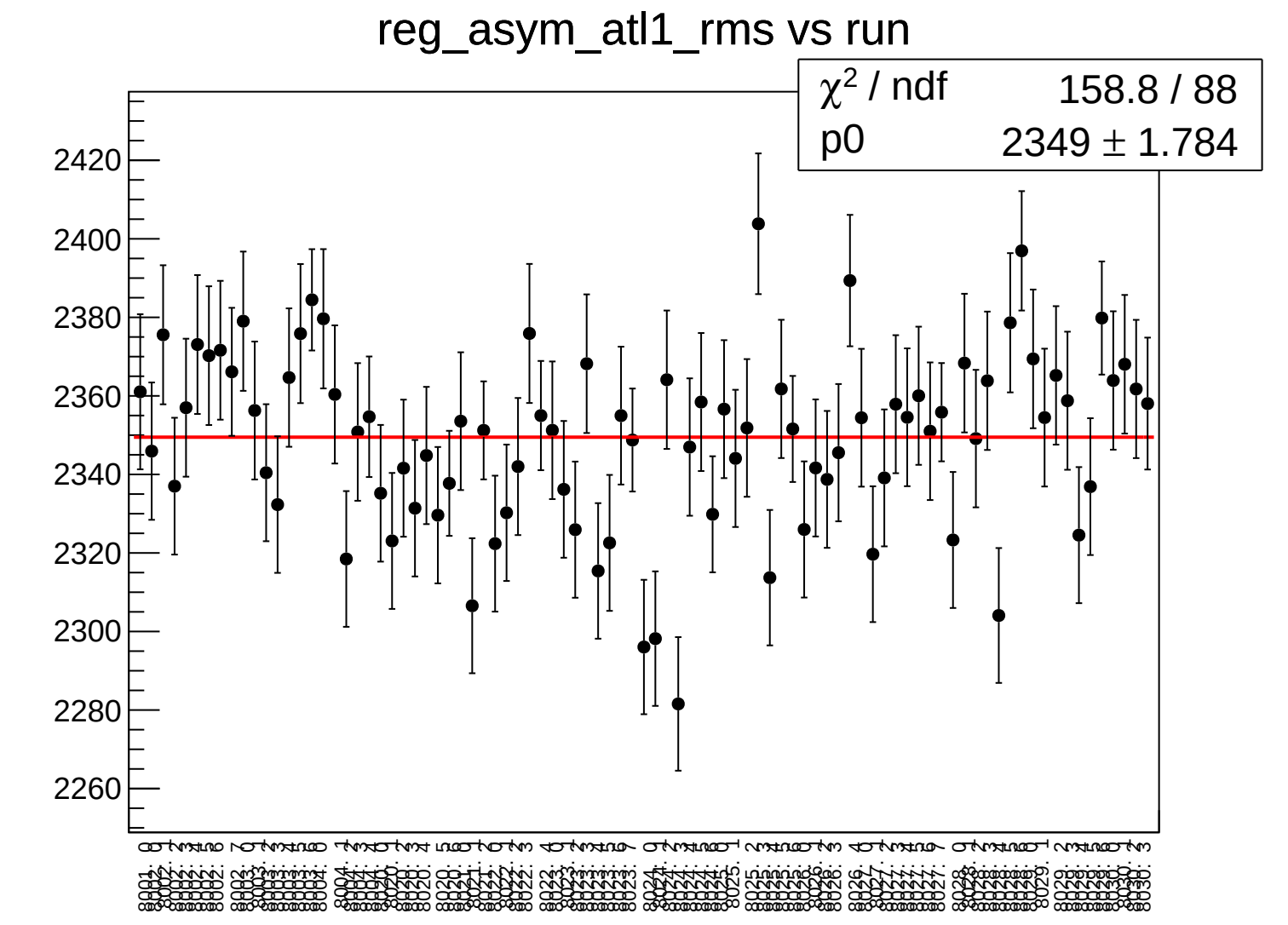

asym_us_agg_dd_mean vs run
χ² / ndf 93.44 / 88
p0 −1150 ± 1522
pull
Entries 89
Mean 243.7
Std Dev 0

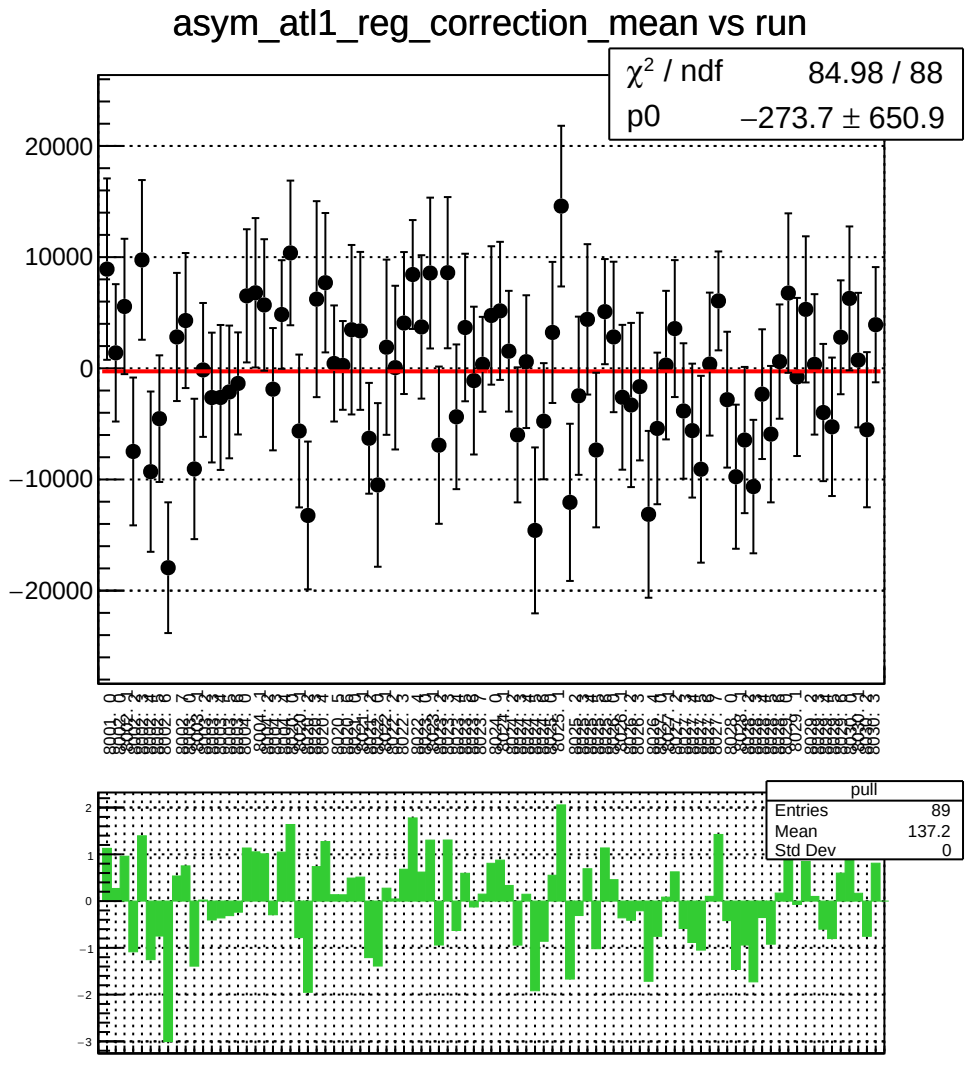

pull1D
Entries 89
Mean −0.01033
Std Dev 1.025

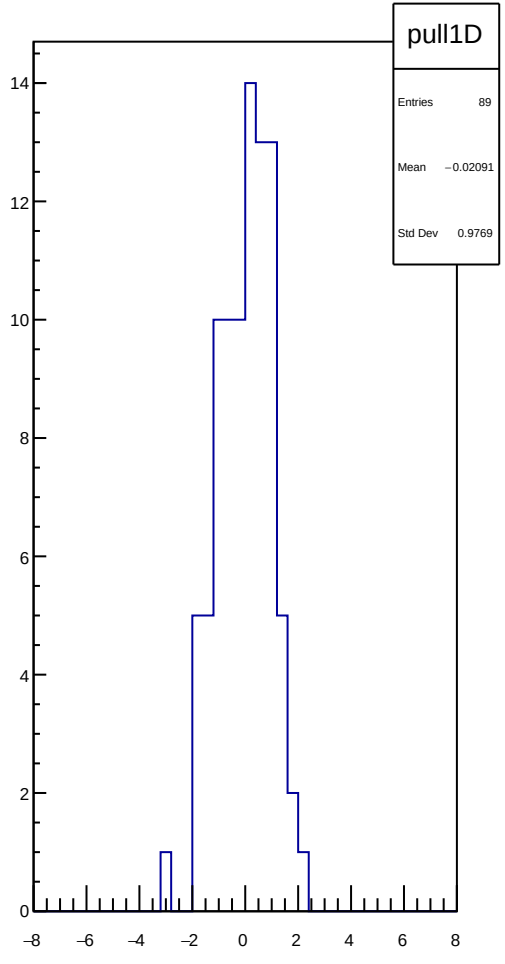

asym_us_agg_dd_rms vs run
χ² / ndf 8498 / 88
p0 1414 ± 1.076
1650
1600
1550
1500
1450
1400
1350
1300

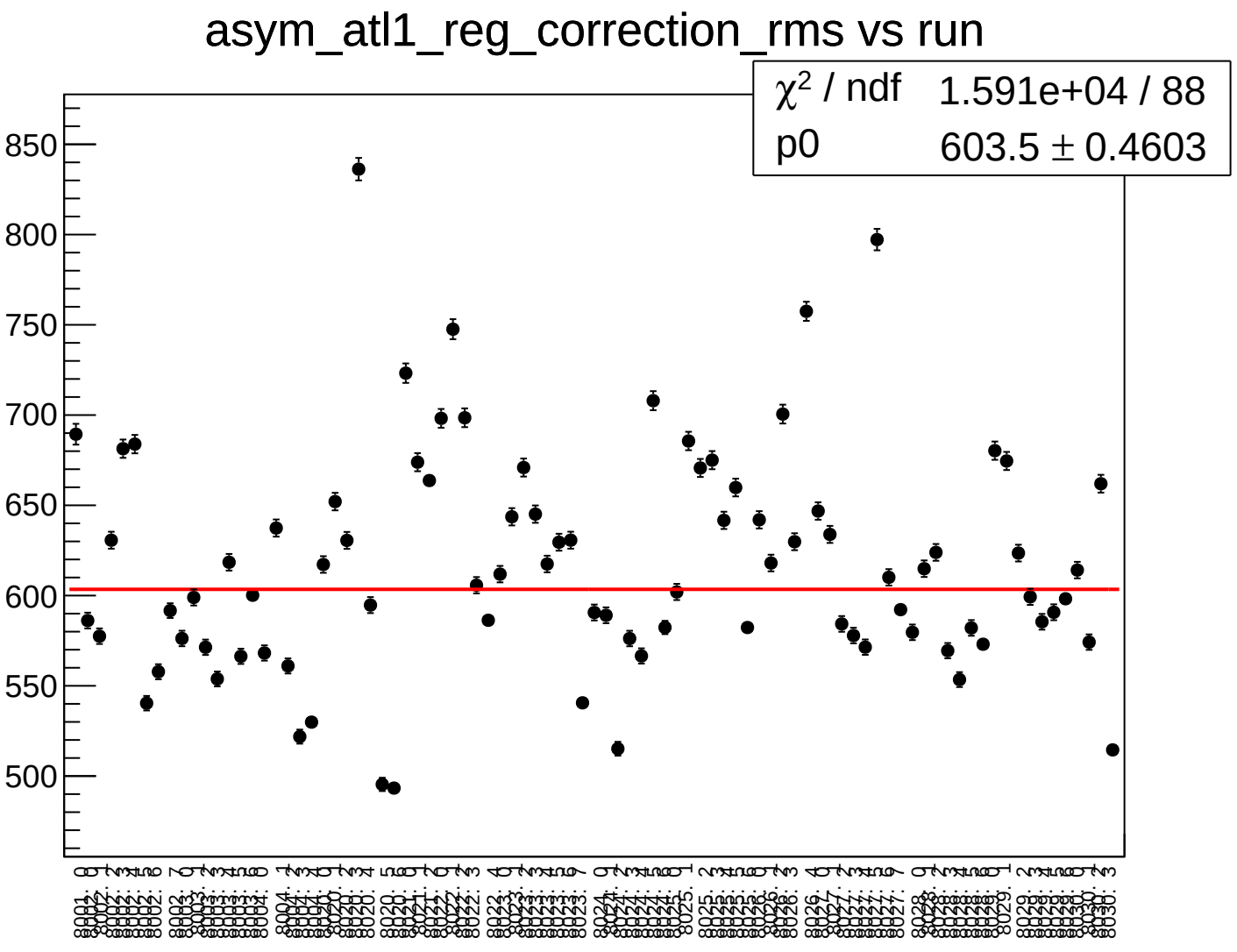

reg_asym_atl1_mean vs run
×10^3
χ² / ndf 89.6 / 88
p0 −3866 ± 2523
100
50
0
−50
−100
pull
Entries 89
Mean −89.14
Std Dev 0
2
1
0
−1
−2
−3

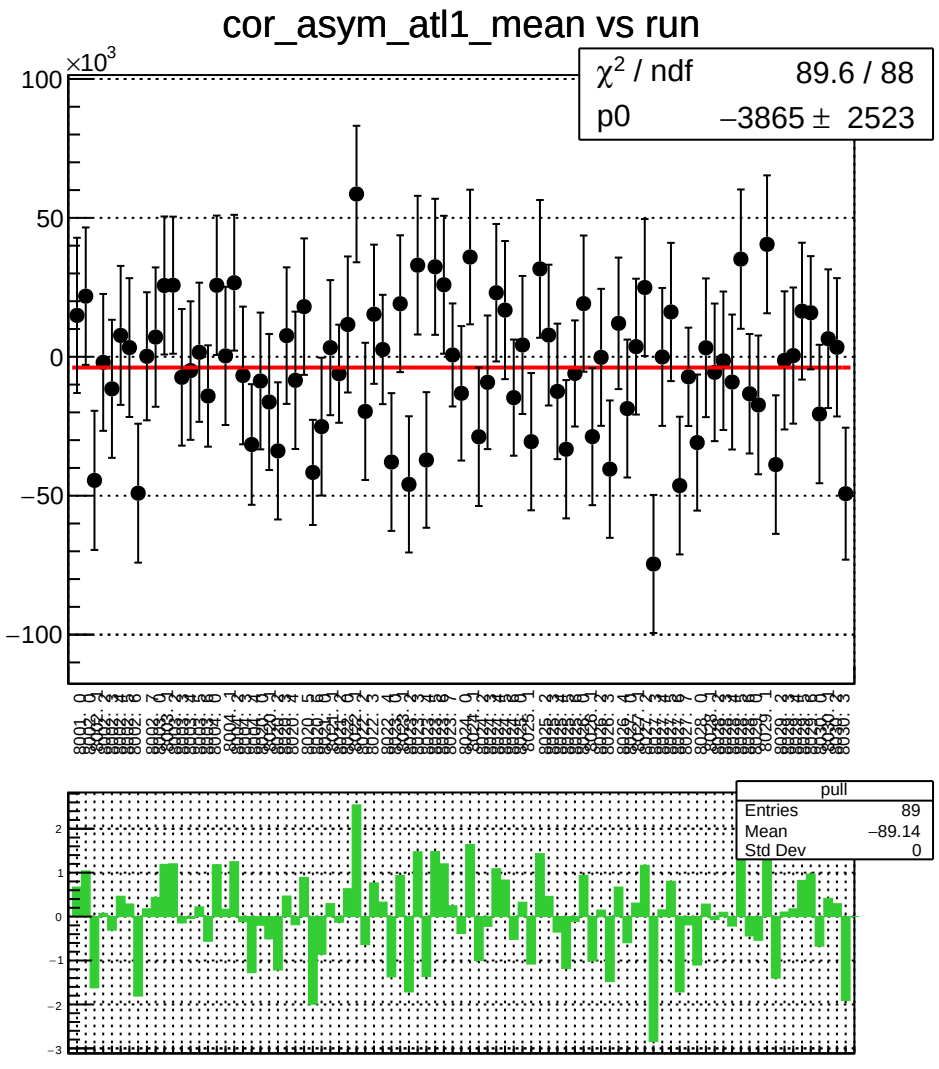

pull1D
Entries 89
Mean 0.01154
Std Dev 1.003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

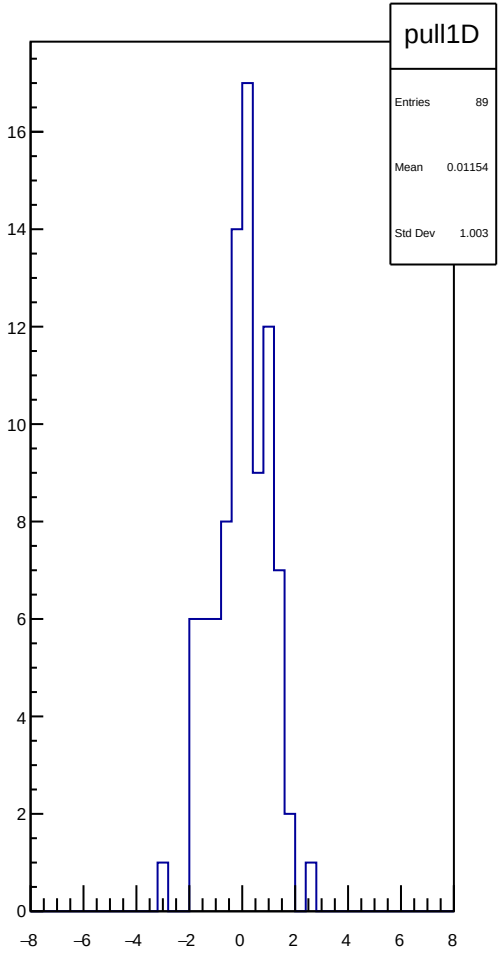

reg_asym_atl1_rms vs run
χ² / ndf 158.8 / 88
p0 2349 ± 1.784
2420
2400
2380
2360
2340
2320
2300
2280
2260

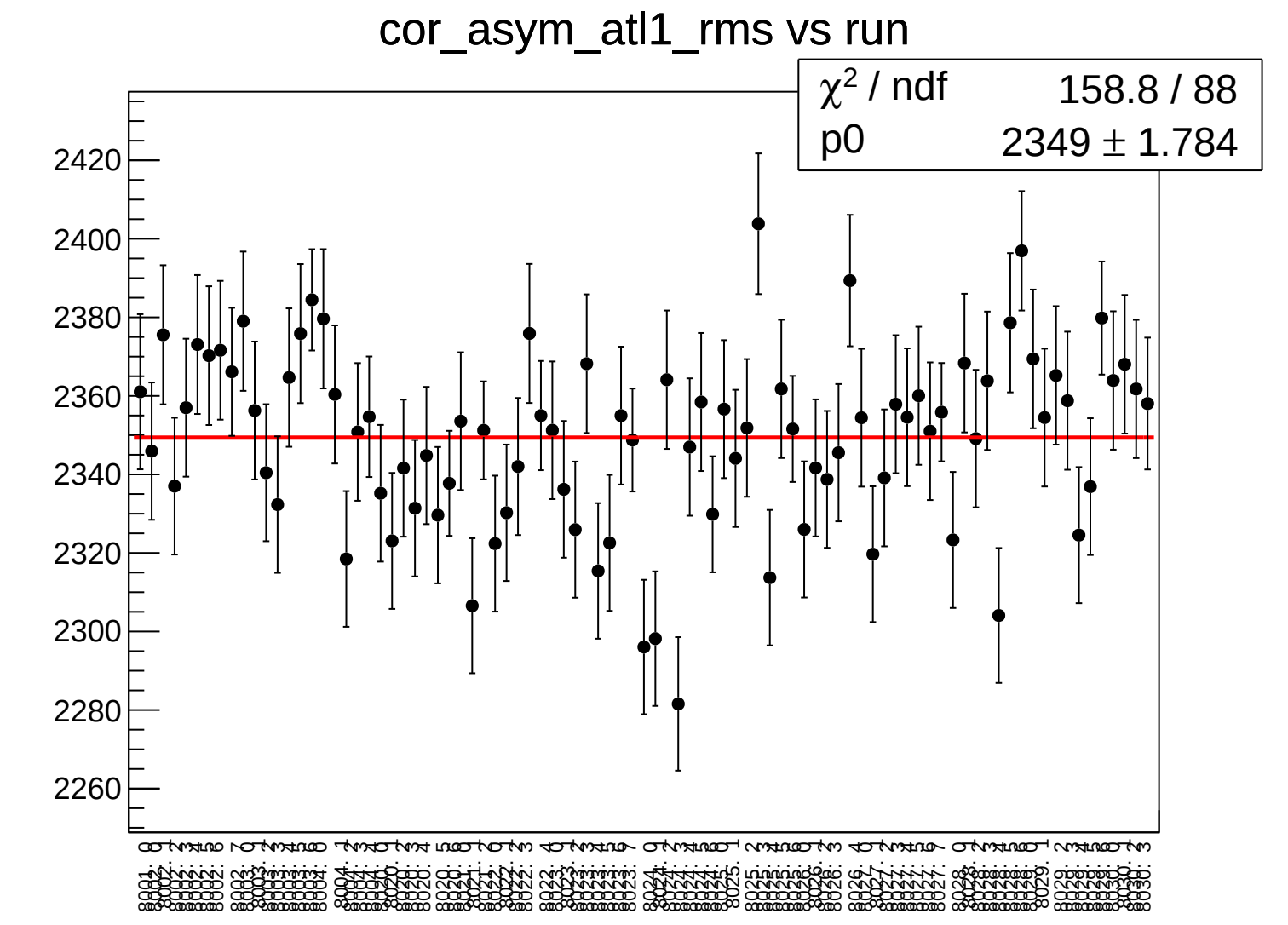

asym_atl1_reg_correction_mean vs run
χ² / ndf 84.98 / 88
p0 −273.7 ± 650.9
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 137.2
Std Dev 0
2
1
0
−1
−2
−3

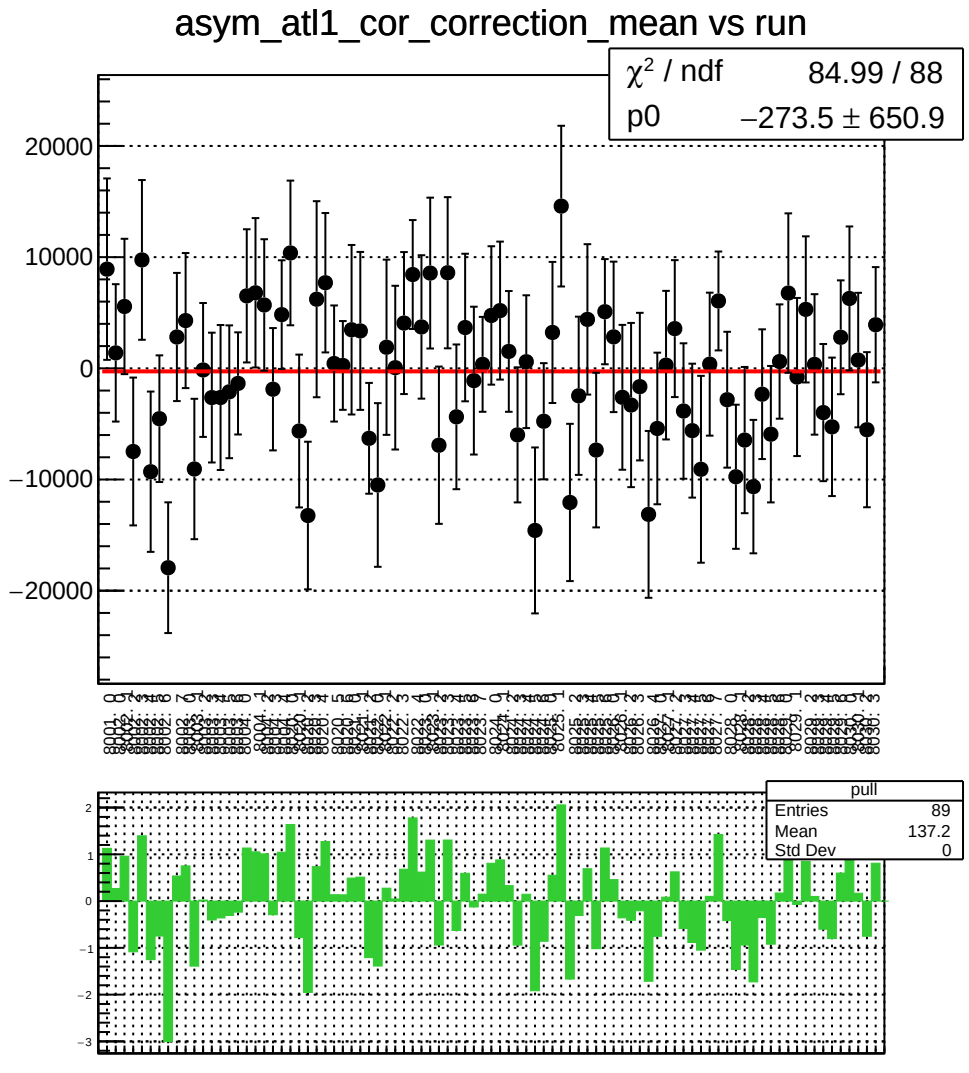

pull1D
Entries 89
Mean −0.02091
Std Dev 0.9769
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

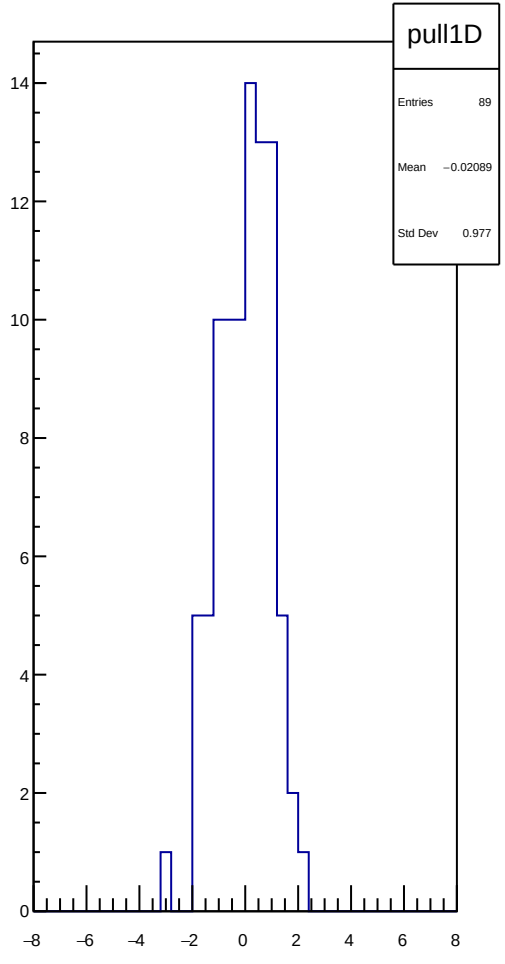

asym_atl1_reg_correction_rms vs run
χ² / ndf 1.591e+04 / 88
p0 603.5 ± 0.4603
850
800
750
700
650
600
550
500

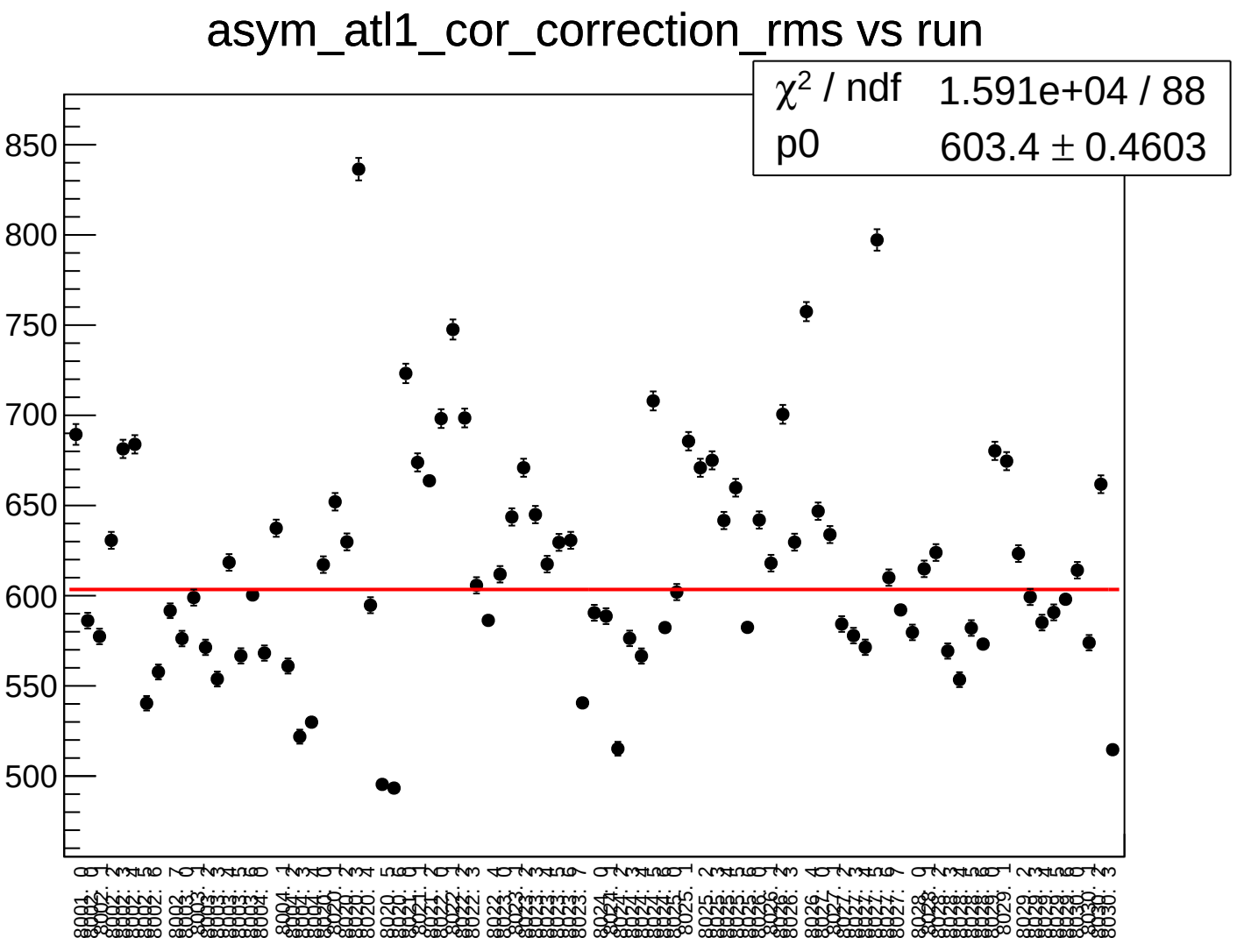

cor_asym_atl1_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 89.6 / 88
p0 −3865 ± 2523
pull
Entries 89
Mean −89.14
Std Dev 0
2
1
0
−1
−2
−3

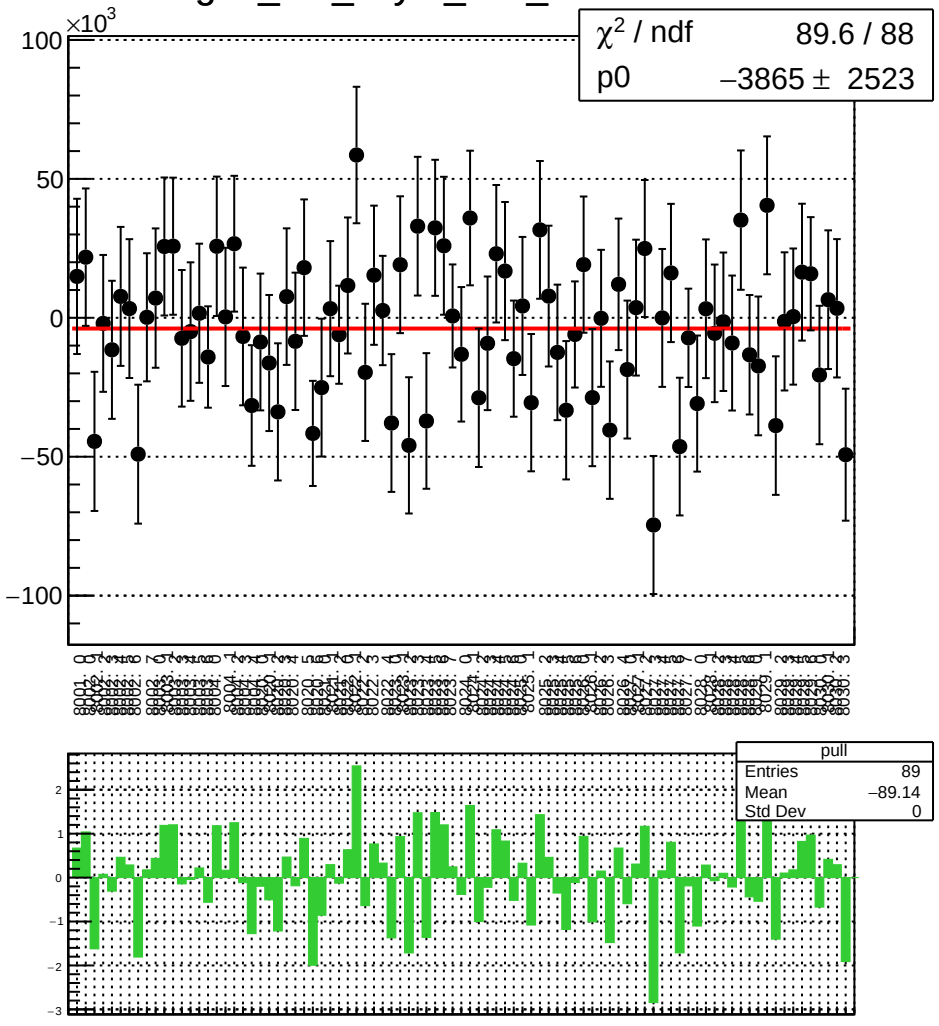

pull1D
Entries 89
Mean 0.01154
Std Dev 1.003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

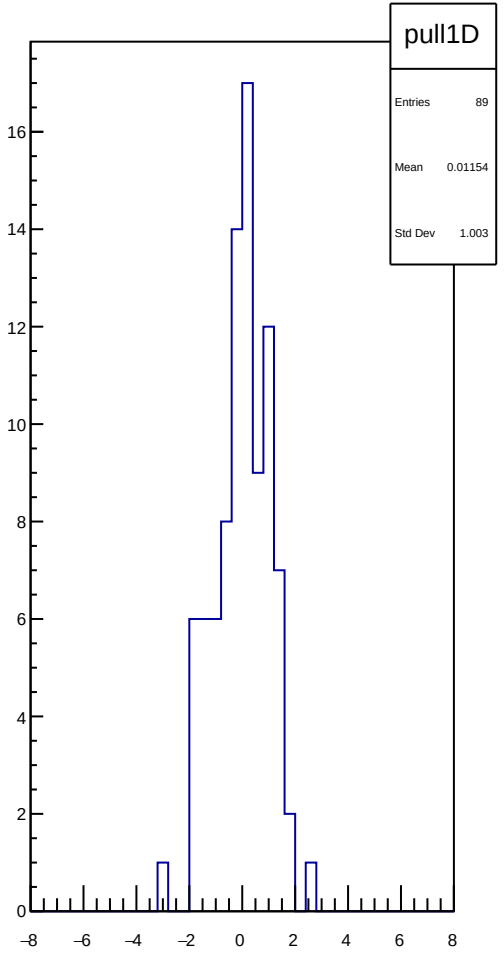

cor_asym_atl1_rms vs run
χ^2 / ndf 158.8 / 88
p0 2349 ± 1.784
2420
2400
2380
2360
2340
2320
2300
2280
2260

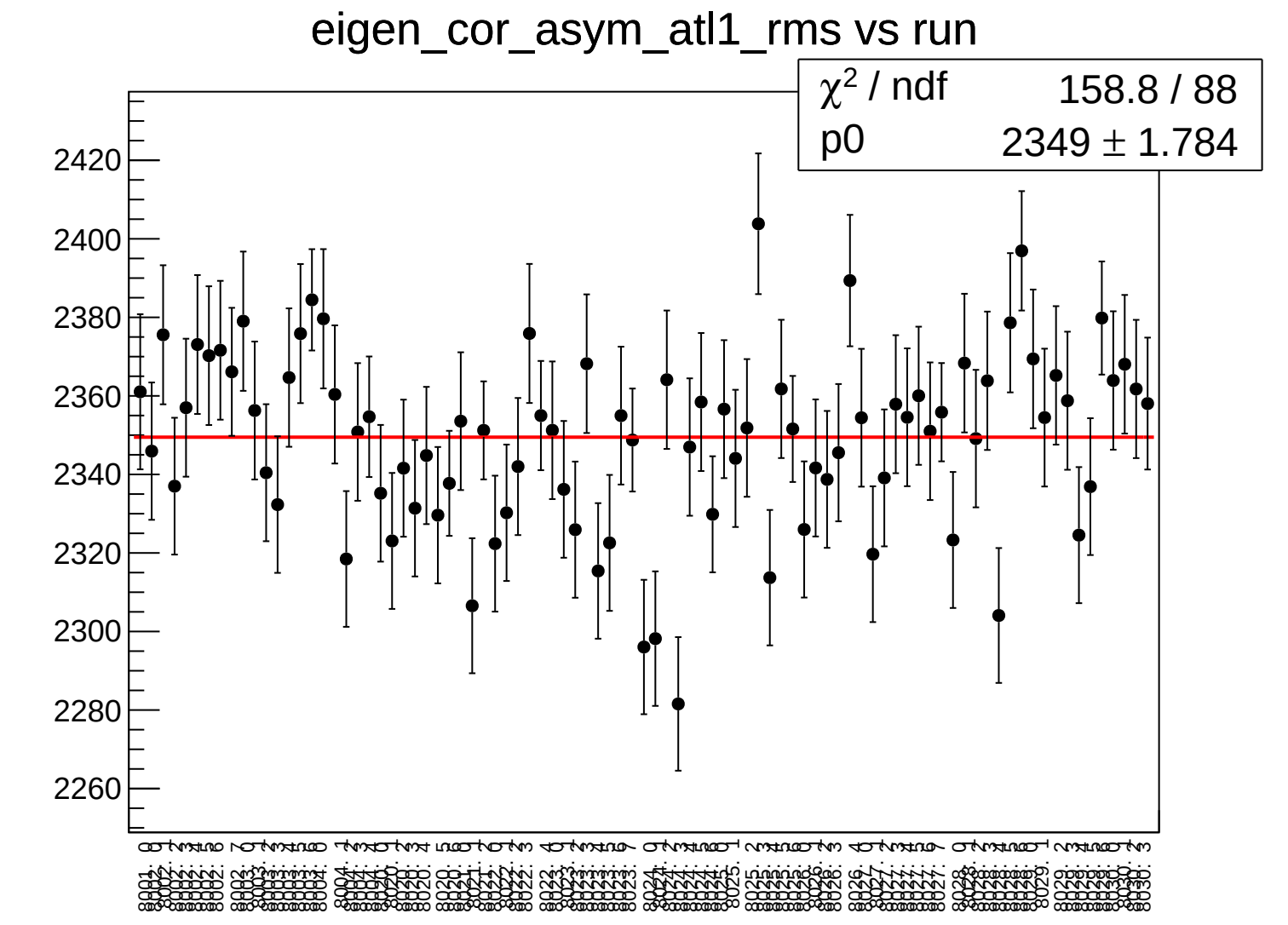

asym_atl1_cor_correction_mean vs run
χ² / ndf 84.99 / 88
p0 −273.5 ± 650.9
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 137.2
Std Dev 0
2
1
0
−1
−2
−3

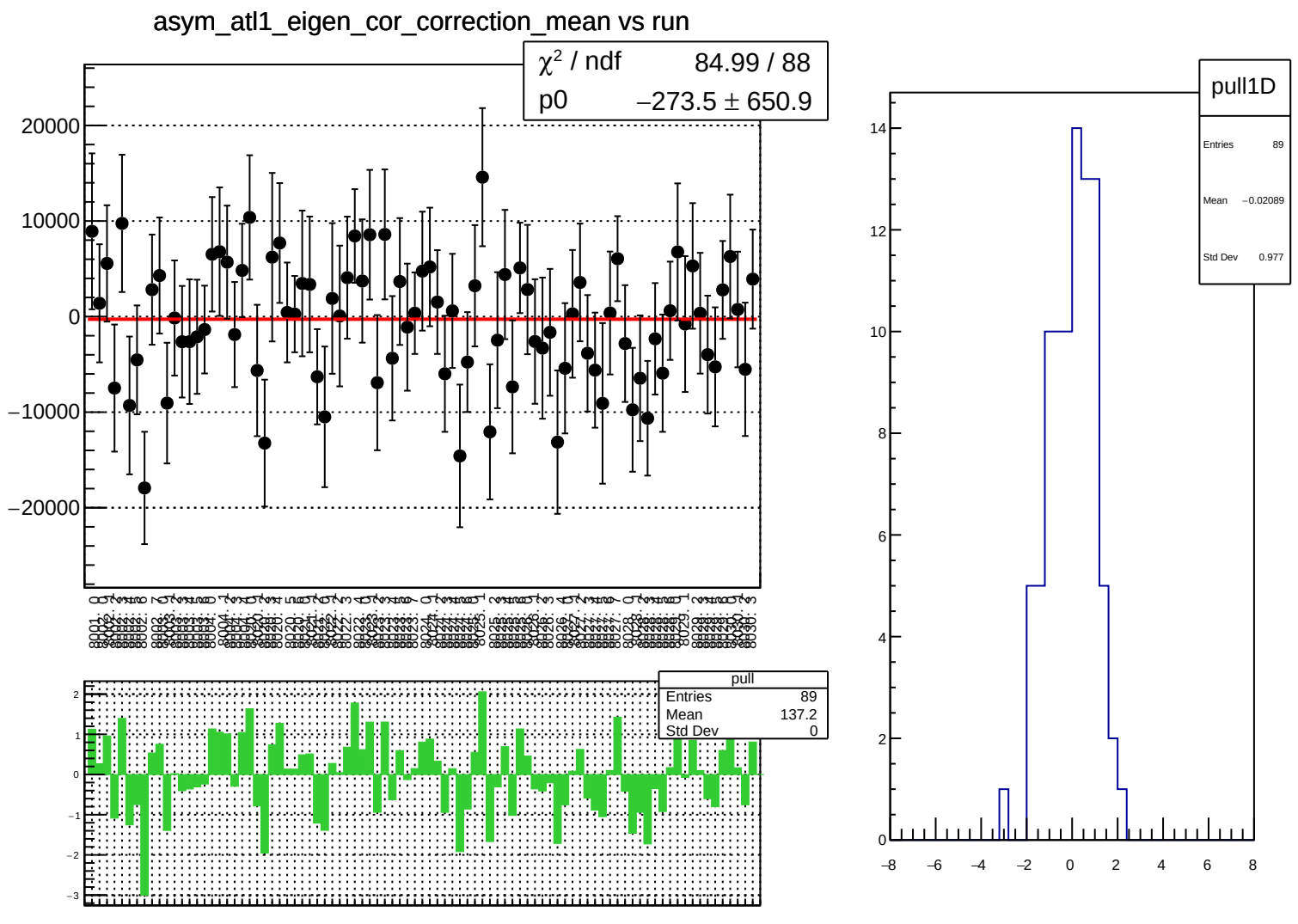

pull1D
Entries 89
Mean −0.02089
Std Dev 0.977
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

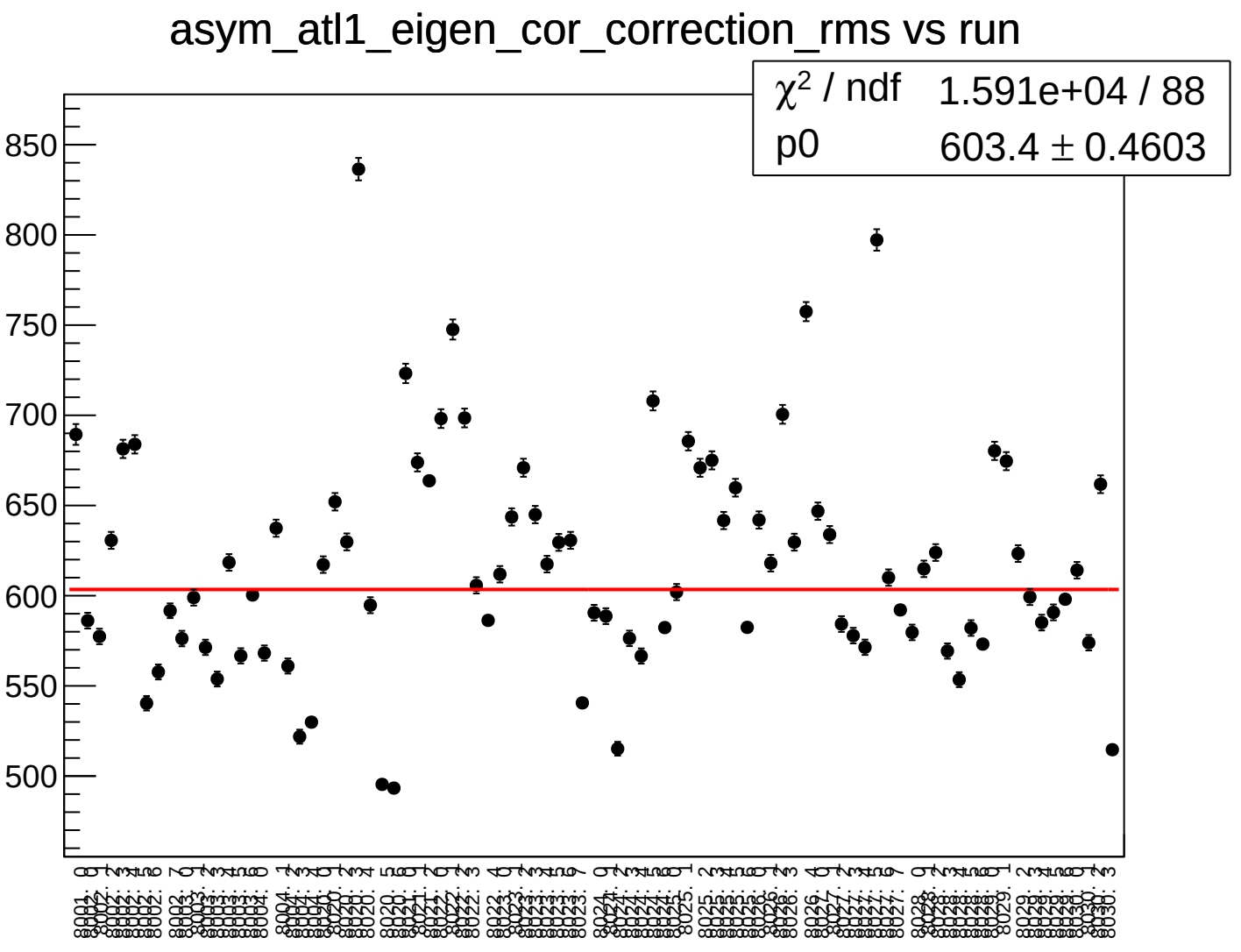

asym_atl1_cor_correction_rms vs run
χ² / ndf 1.591e+04 / 88
p0 603.4 ± 0.4603
850
800
750
700
650
600
550
500

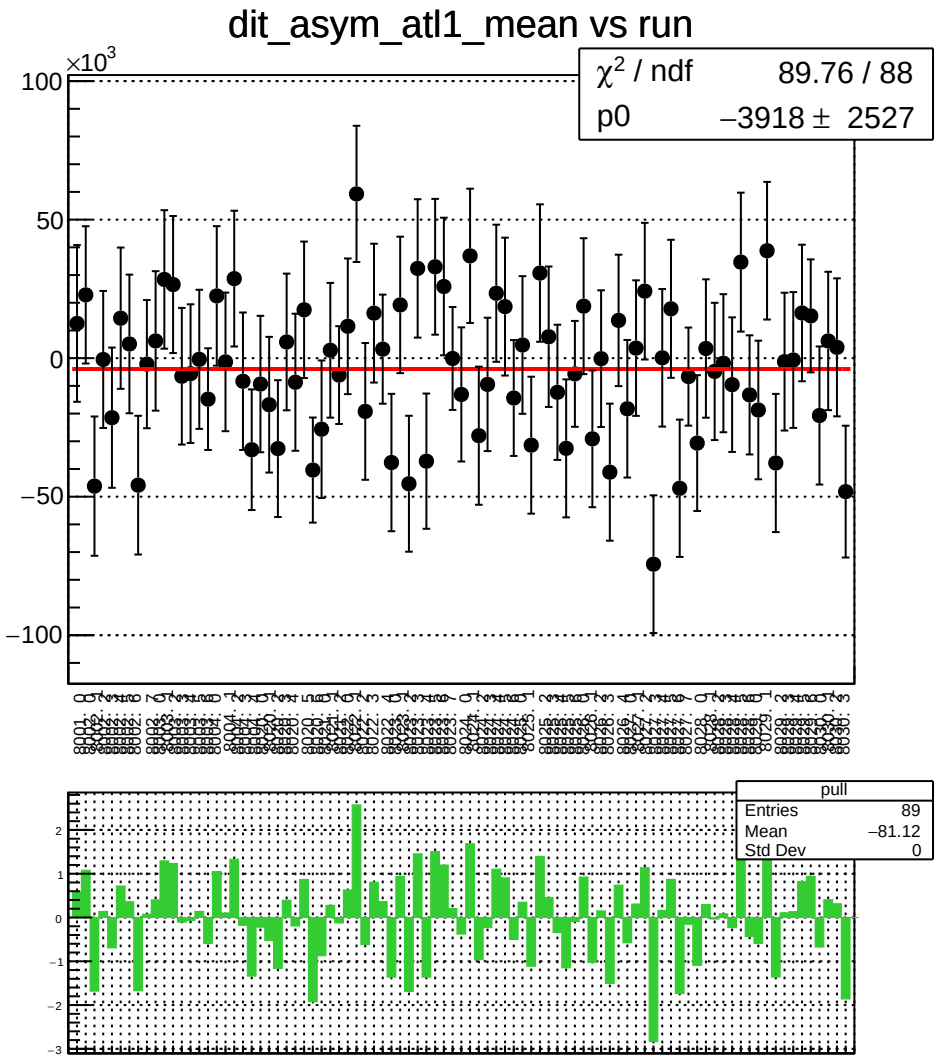

eigen_cor_asym_atl1_mean vs run
χ² / ndf 89.6 / 88
p0 −3865 ± 2523
×10³
100
50
0
−50
−100
pull
Entries 89
Mean −89.14
Std Dev 0
2
1
0
−1
−2
−3

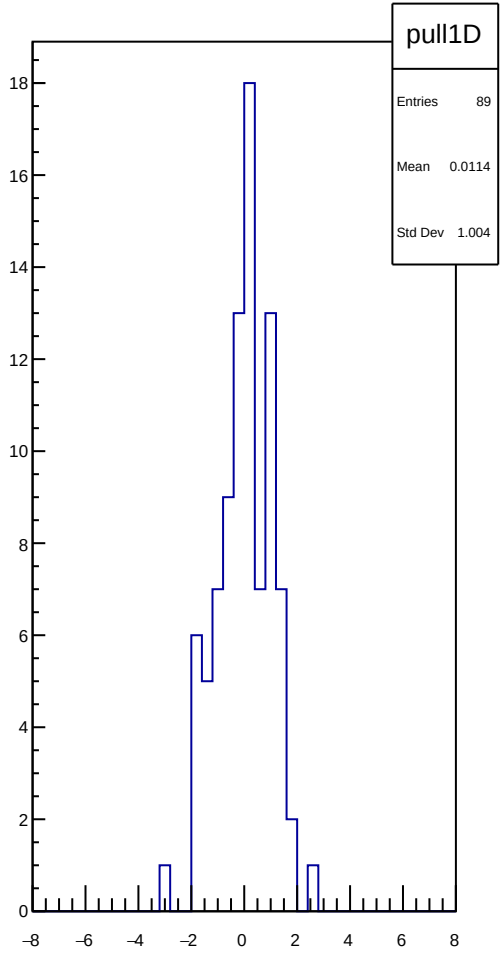

pull1D
Entries 89
Mean 0.01154
Std Dev 1.003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

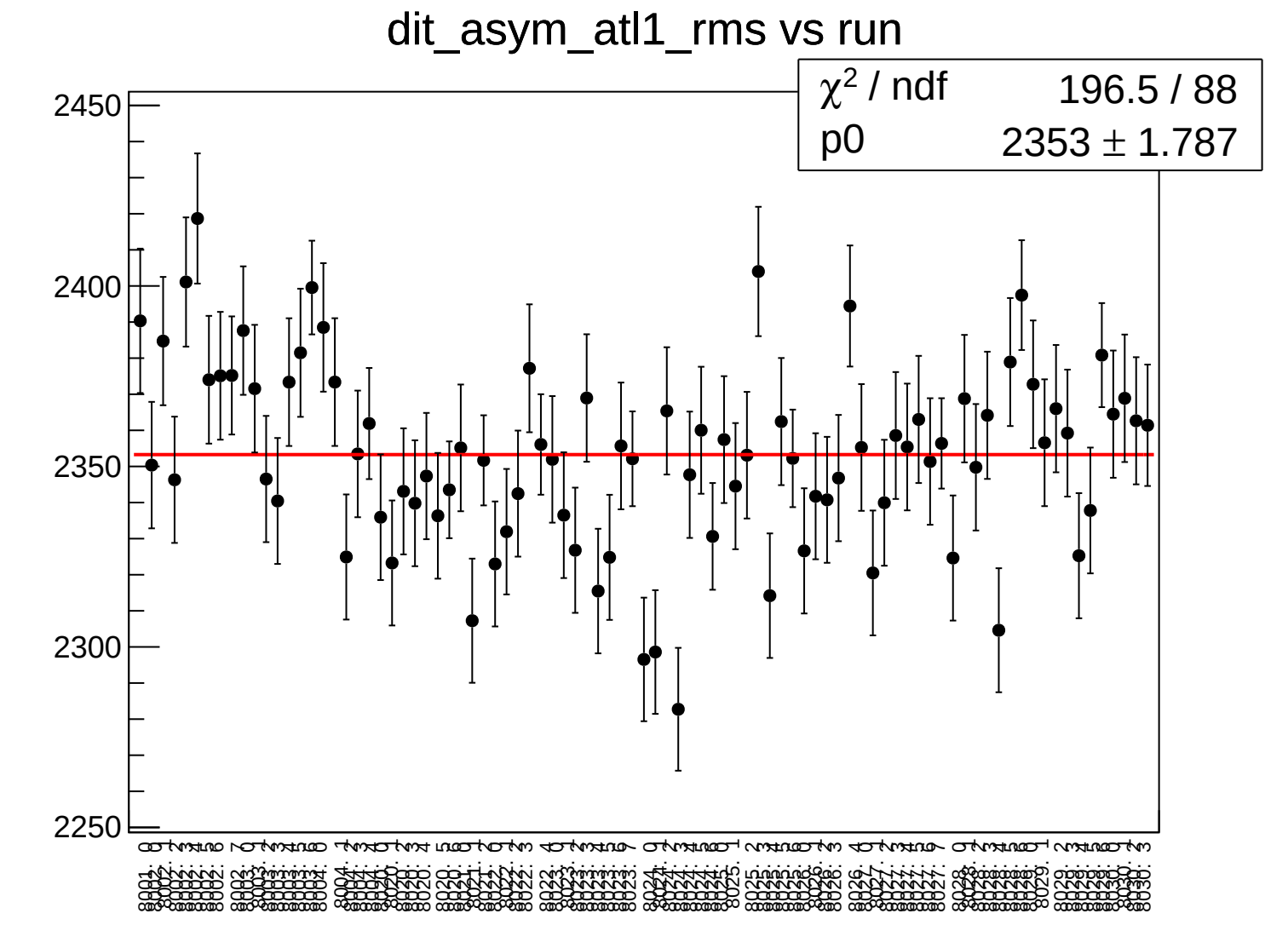

eigen_cor_asym_atl1_rms vs run
χ² / ndf 158.8 / 88
p0 2349 ± 1.784
2420
2400
2380
2360
2340
2320
2300
2280
2260

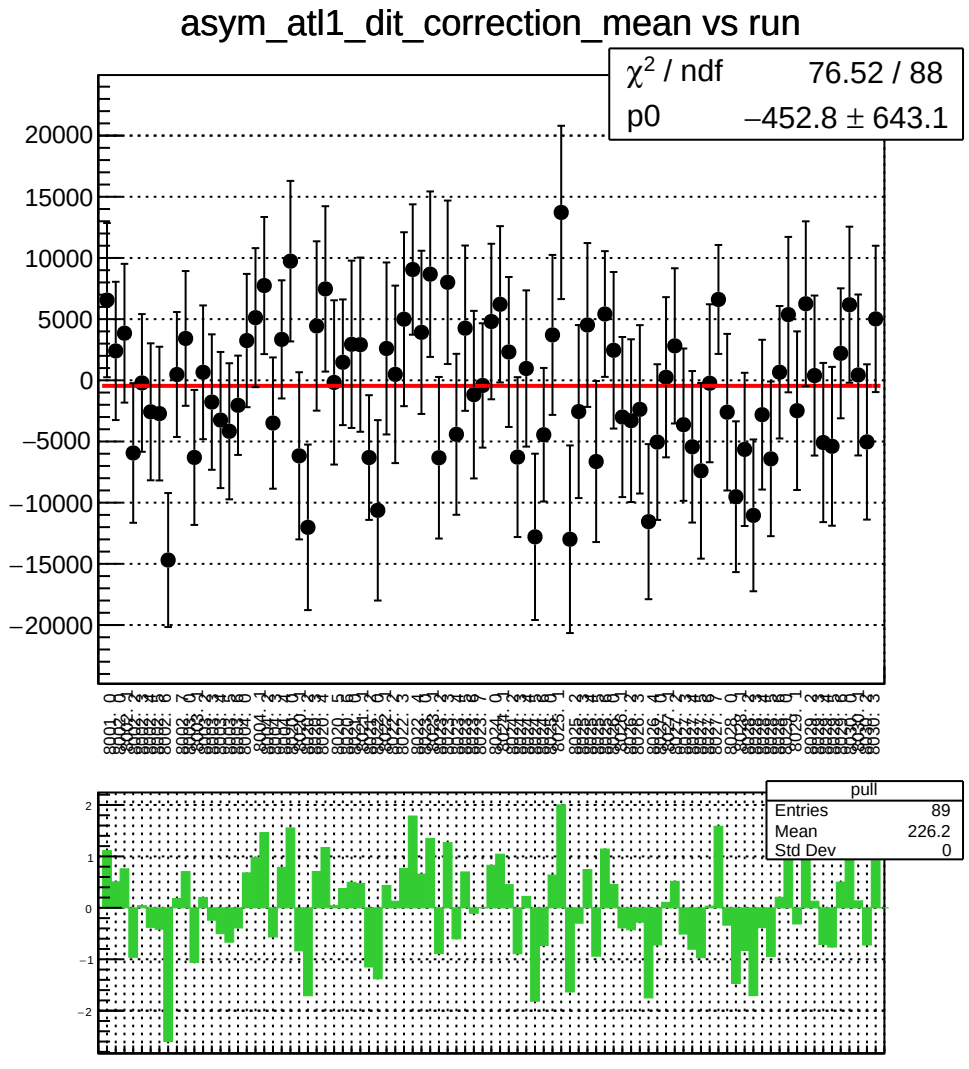

asym_atl1_eigen_cor_correction_mean vs run
χ² / ndf 84.99 / 88
p0 −273.5 ± 650.9
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 137.2
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.02089
Std Dev 0.977
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

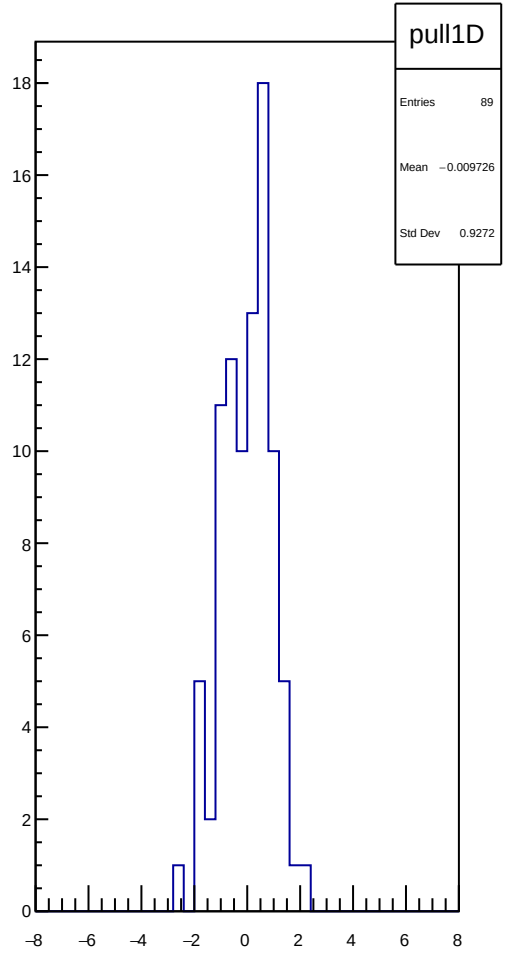

asym_atl1_eigen_cor_correction_rms vs run
χ² / ndf 1.591e+04 / 88
p0 603.4 ± 0.4603
850
800
750
700
650
600
550
500

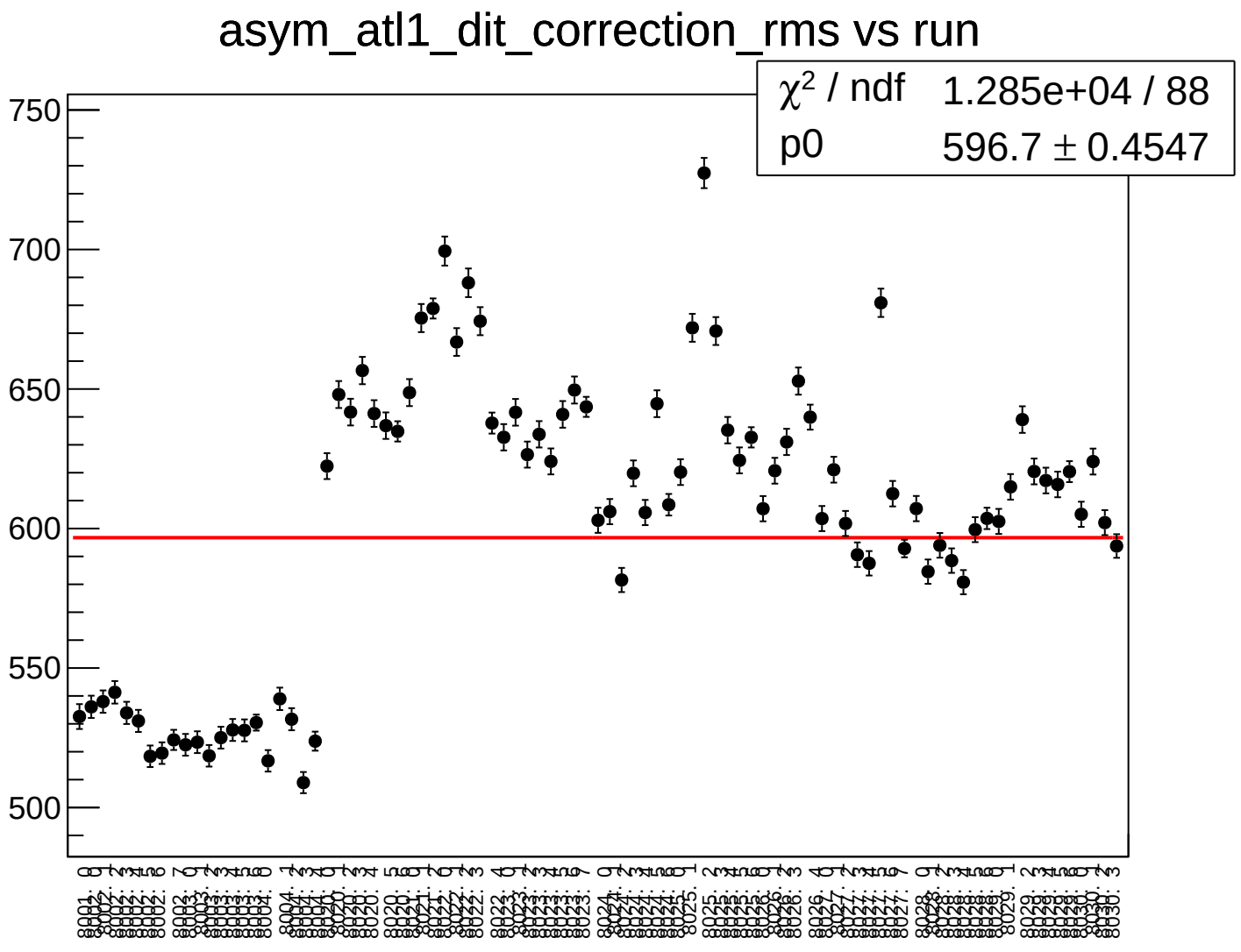

dit_asym_atl1_mean vs run
χ^2 / ndf 89.76 / 88
p0 −3918 ± 2527
×10^3
100
50
0
−50
−100
pull
Entries 89
Mean −81.12
Std Dev 0
2
1
0
−1
−2
−3

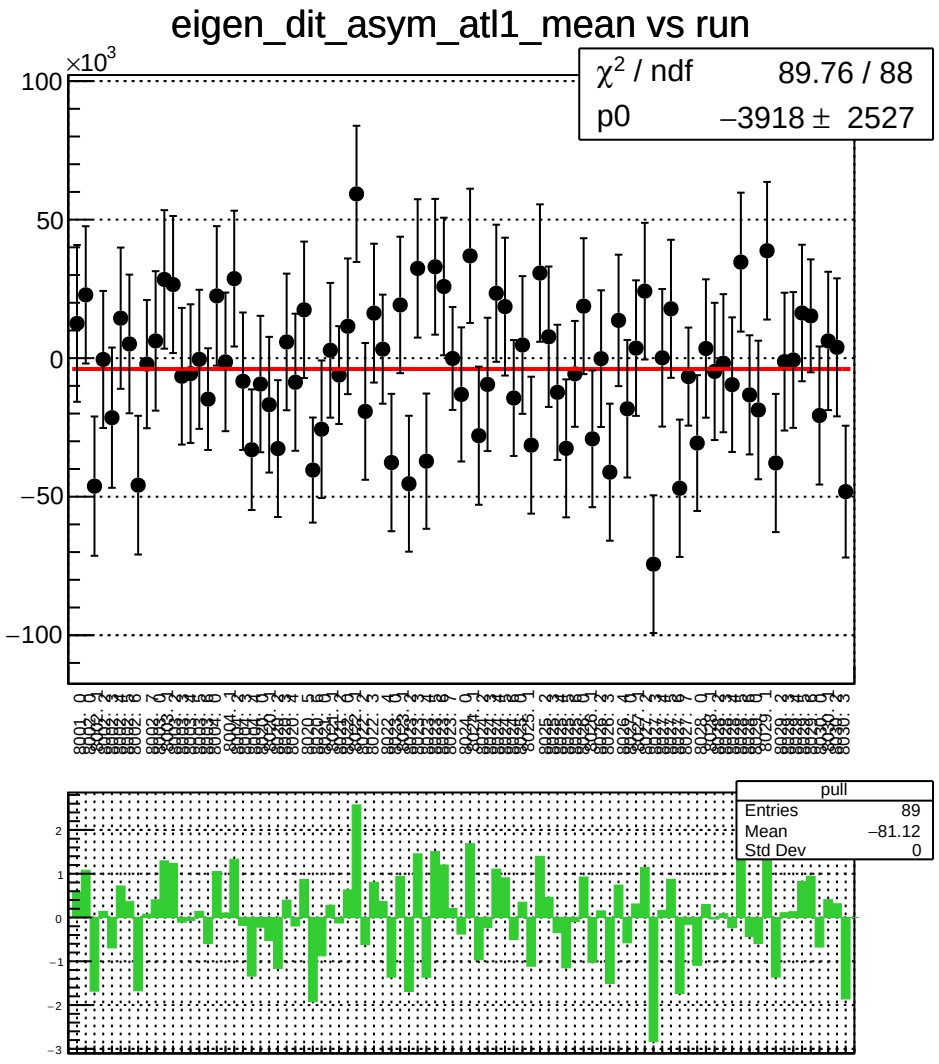

pull1D
Entries 89
Mean 0.0114
Std Dev 1.004
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

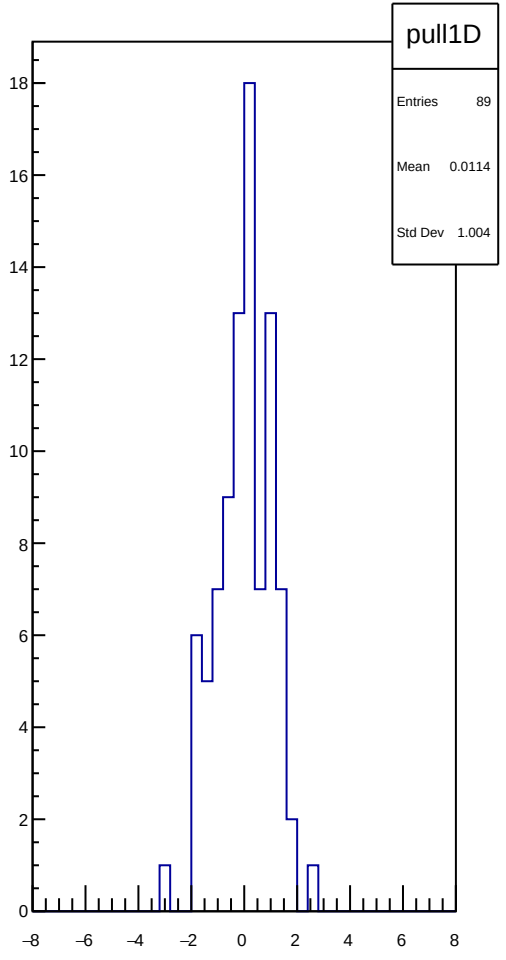

dit_asym_atl1_rms vs run
χ² / ndf 196.5 / 88
p0 2353 ± 1.787
2450
2400
2350
2300
2250

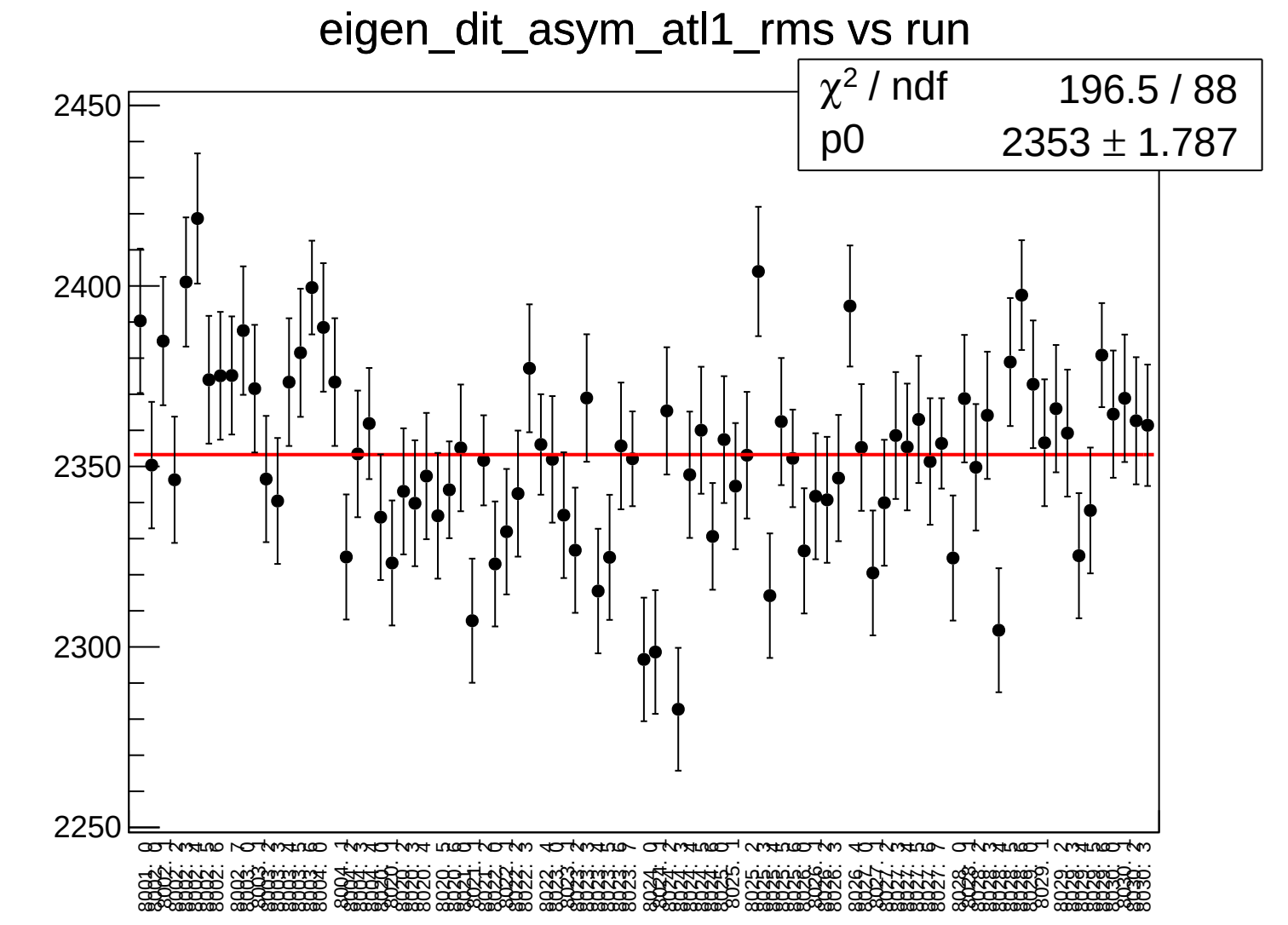

asym_atl1_dit_correction_mean vs run
χ² / ndf 76.52 / 88
p0 −452.8 ± 643.1
pull
Entries 89
Mean 226.2
Std Dev 0

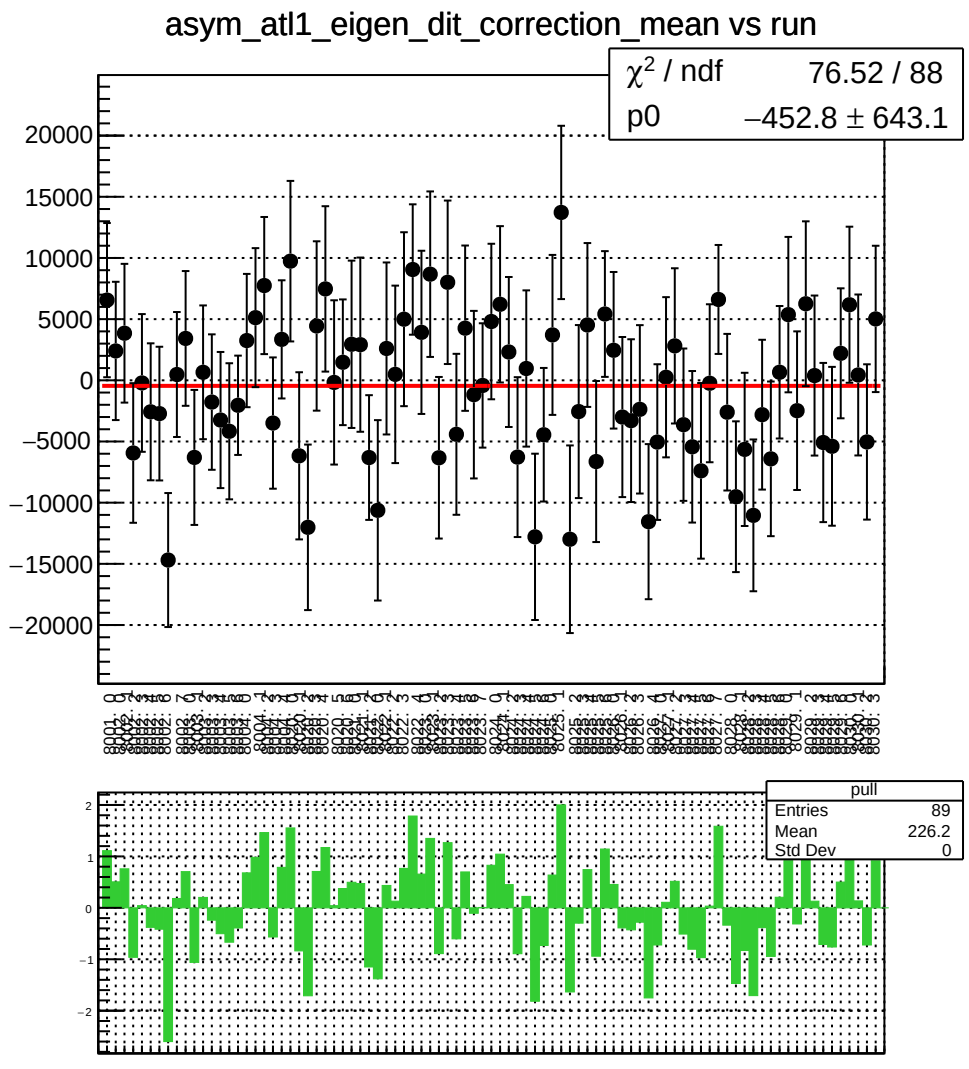

pull1D
Entries 89
Mean −0.009726
Std Dev 0.9272

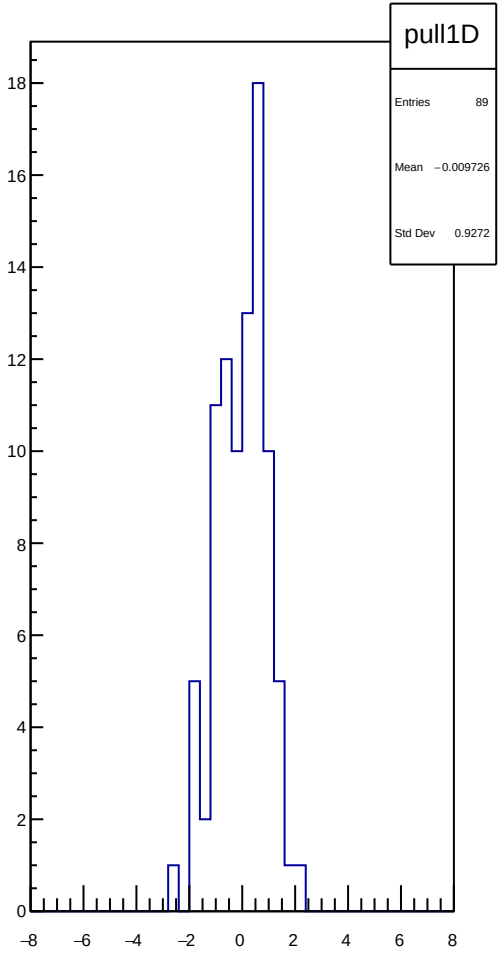

asym_atl1_dit_correction_rms vs run
χ² / ndf 1.285e+04 / 88
p0 596.7 ± 0.4547
750
700
650
600
550
500

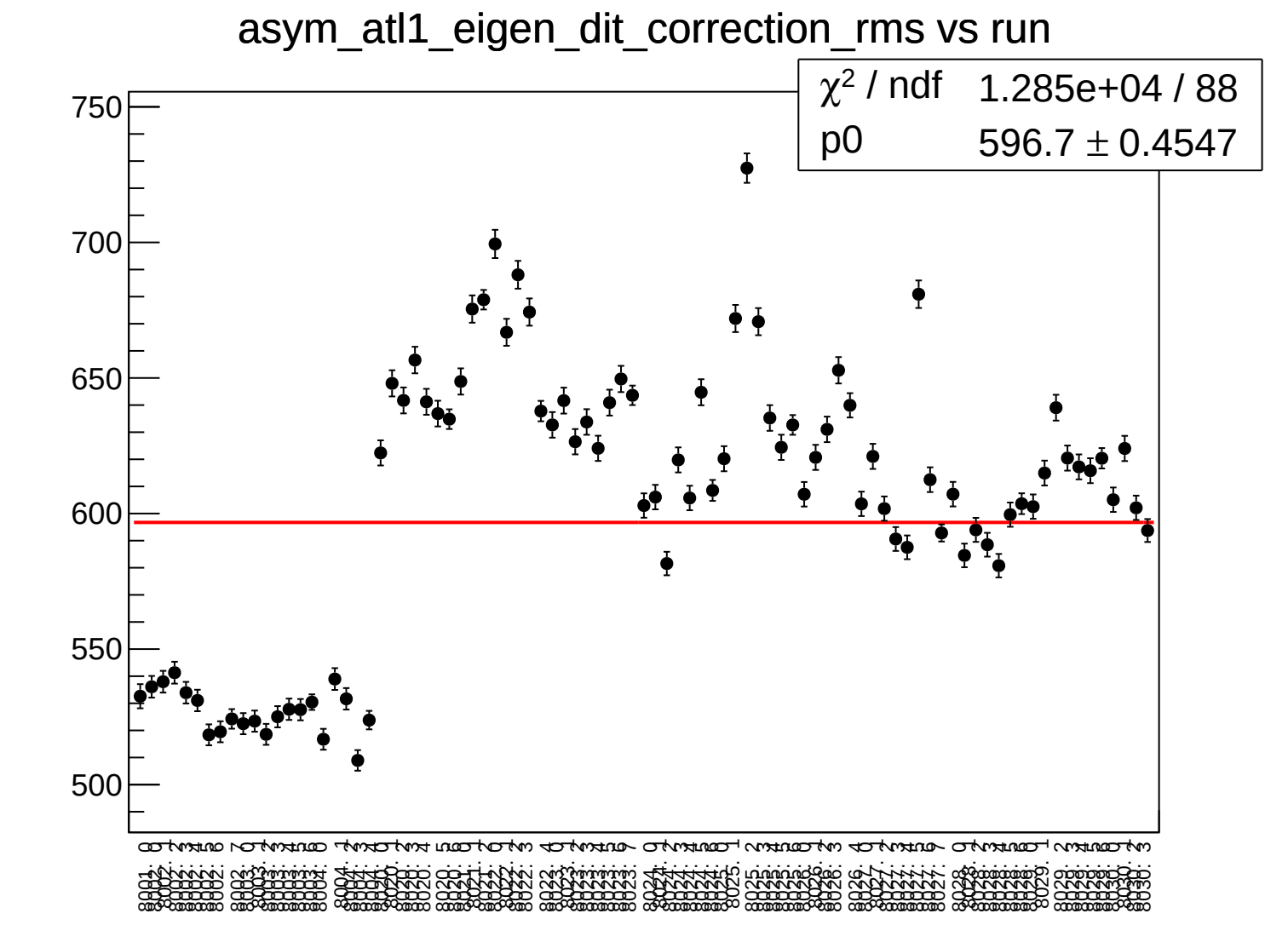

eigen_dit_asym_atl1_mean vs run
χ² / ndf 89.76 / 88
p0 −3918 ± 2527
×10³
pull
Entries 89
Mean −81.12
Std Dev 0

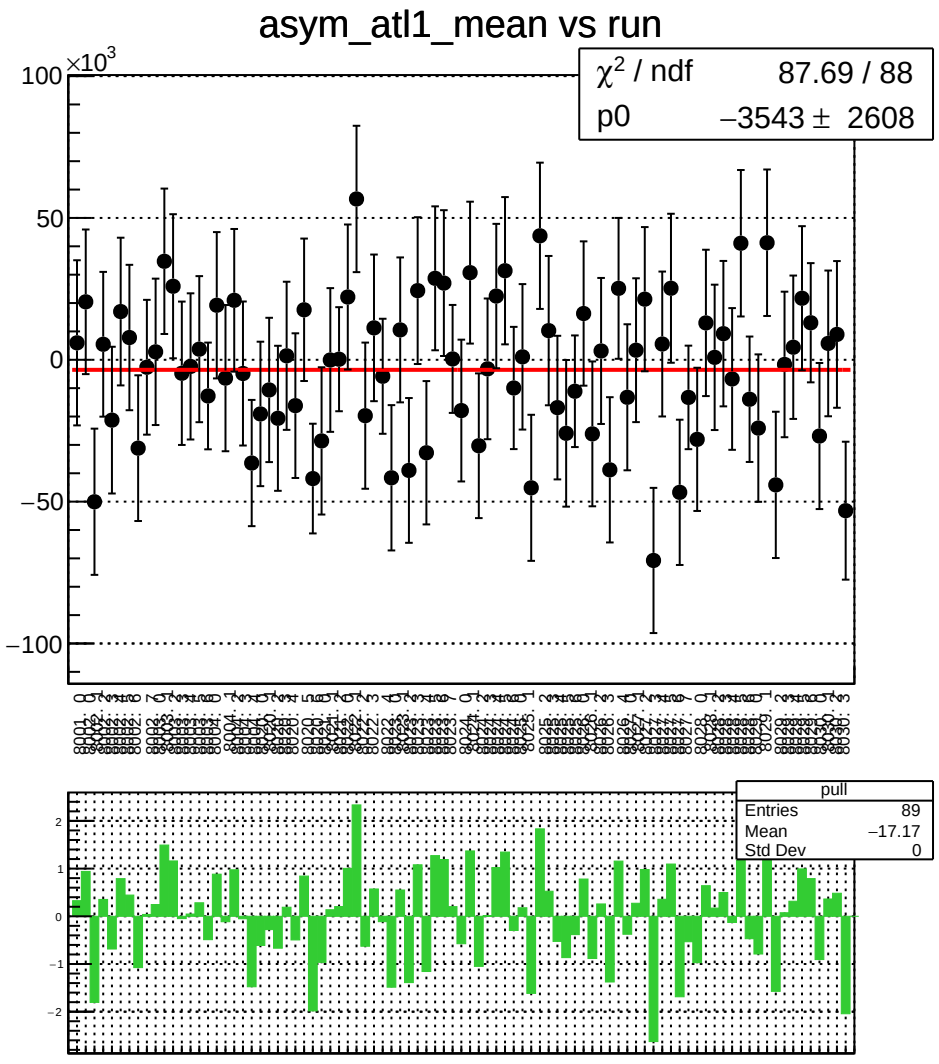

pull1D
Entries 89
Mean 0.0114
Std Dev 1.004

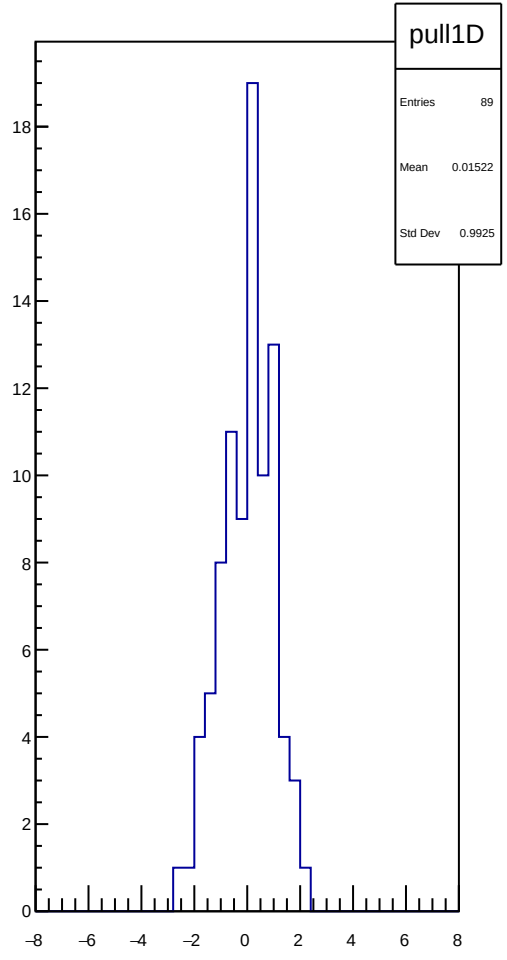

eigen_dit_asym_atl1_rms vs run
χ^2 / ndf 196.5 / 88
p0 2353 ± 1.787
2450
2400
2350
2300
2250

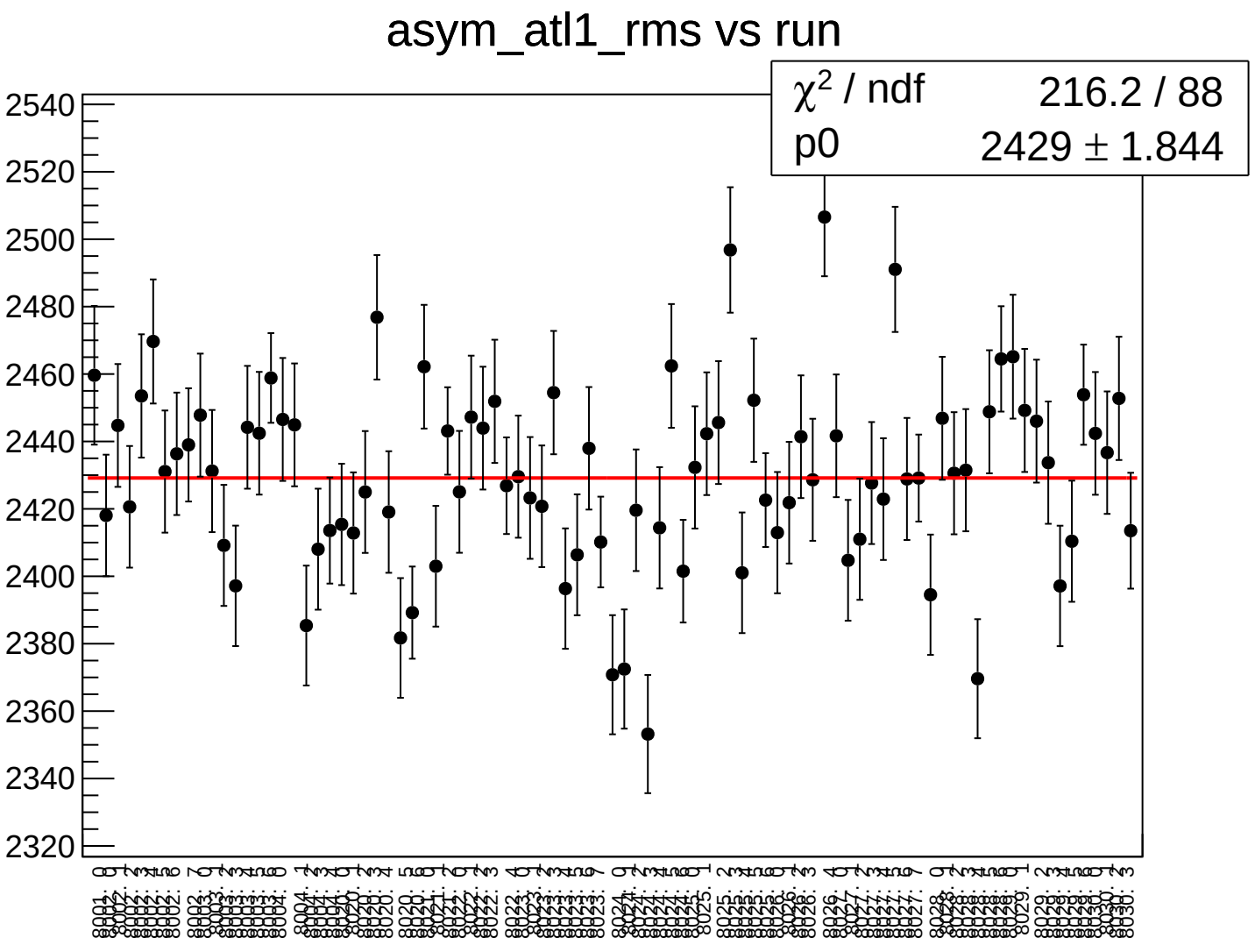

asym_atl1_eigen_dit_correction_mean vs run
χ² / ndf 76.52 / 88
p0 −452.8 ± 643.1
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 89
Mean 226.2
Std Dev 0
2
1
0
−1
−2

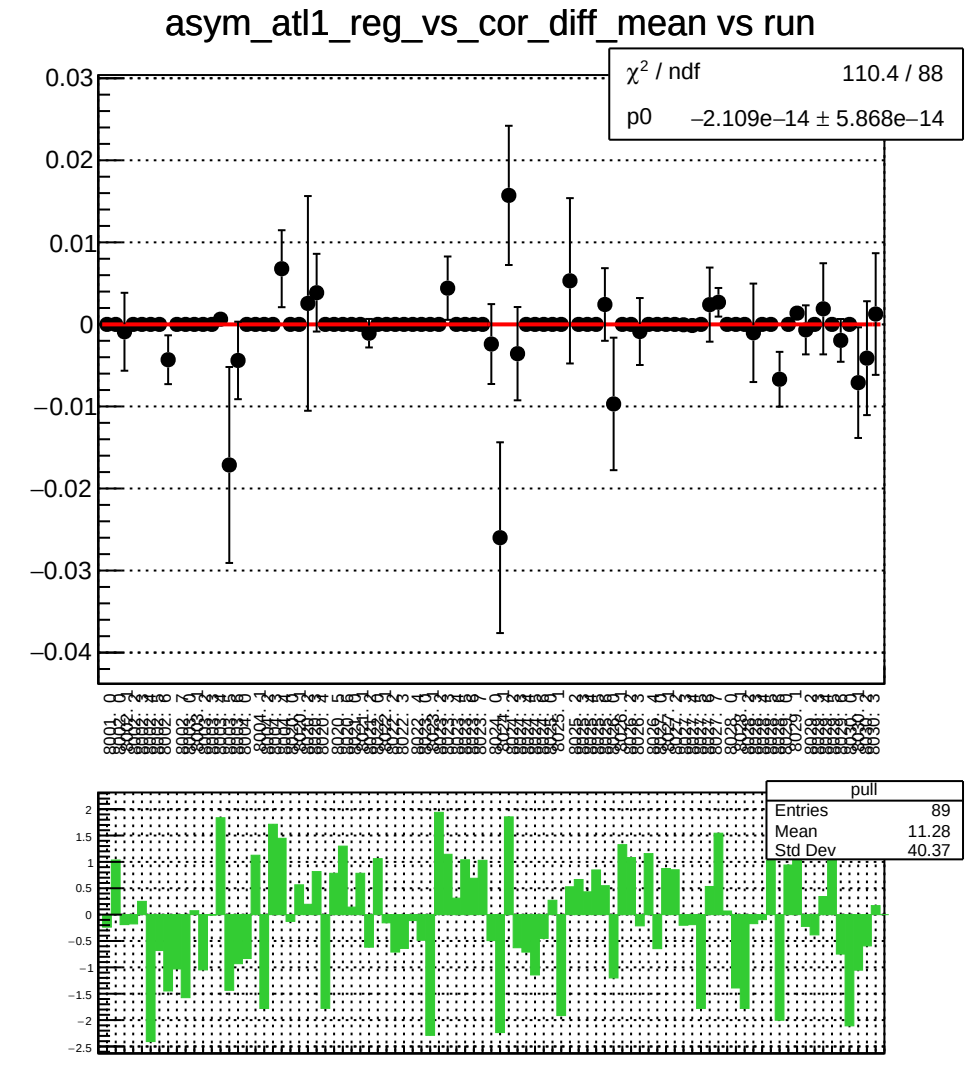

pull1D
Entries 89
Mean −0.009726
Std Dev 0.9272
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

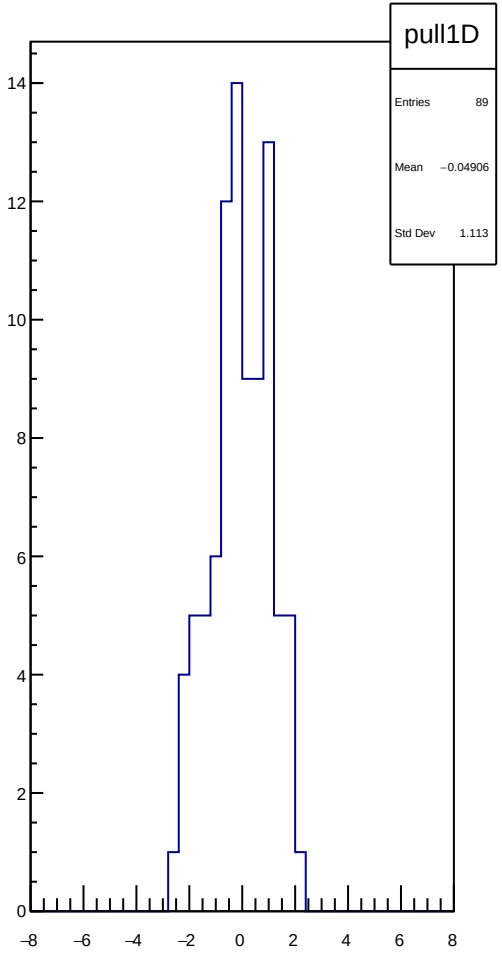

asym_atl1_eigen_dit_correction_rms vs run
χ² / ndf 1.285e+04 / 88
p0 596.7 ± 0.4547
750
700
650
600
550
500

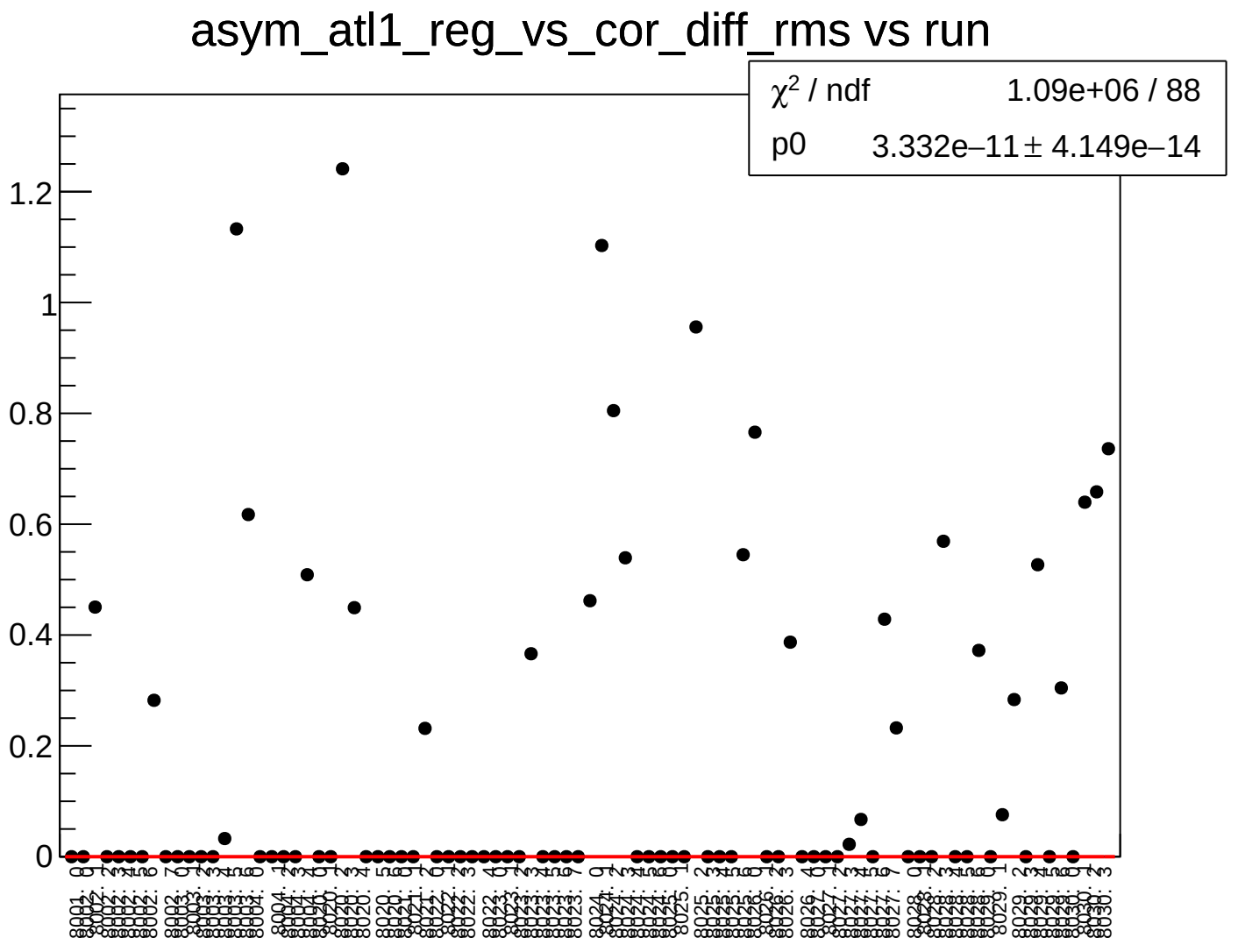

asym_atl1_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 87.69 / 88
p0 −3543 ± 2608
pull
Entries 89
Mean −17.17
Std Dev 0
2
1
0
−1
−2

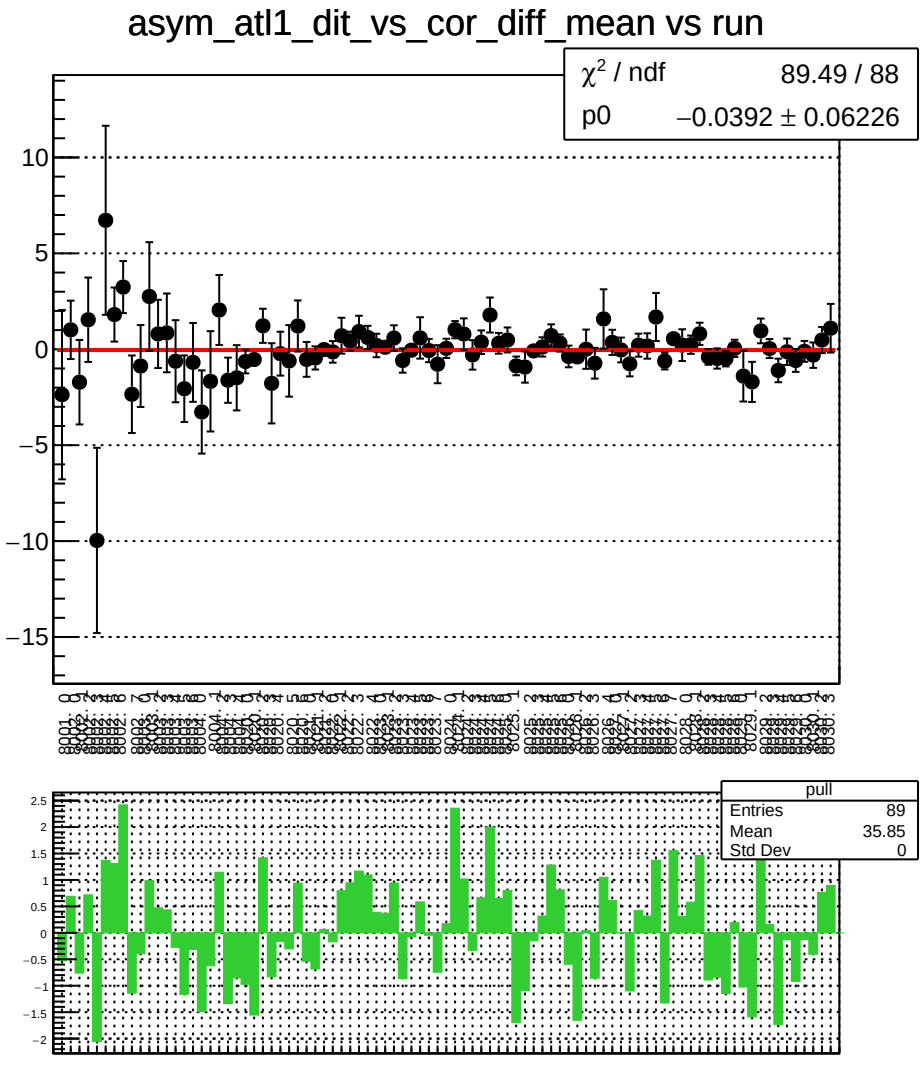

pull1D
Entries 89
Mean 0.01522
Std Dev 0.9925
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

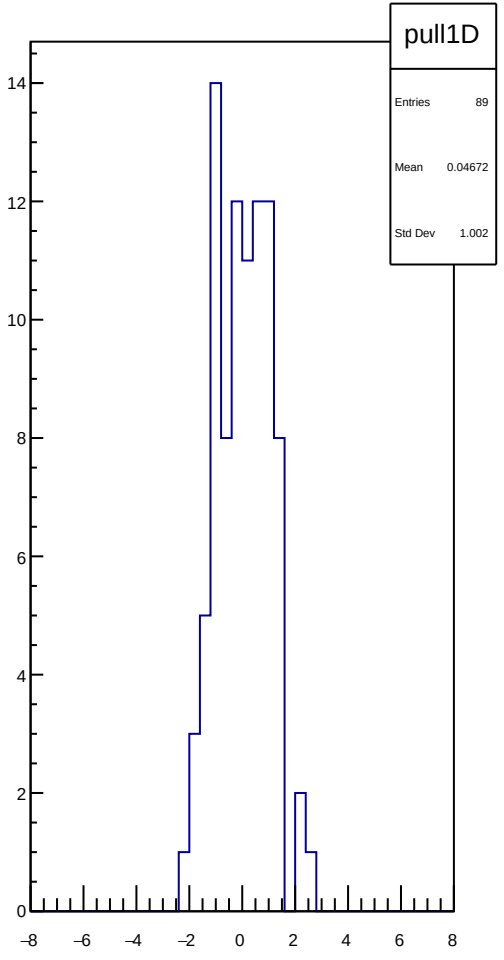

asym_atl1_rms vs run
χ² / ndf 216.2 / 88
p0 2429 ± 1.844
2540
2520
2500
2480
2460
2440
2420
2400
2380
2360
2340
2320

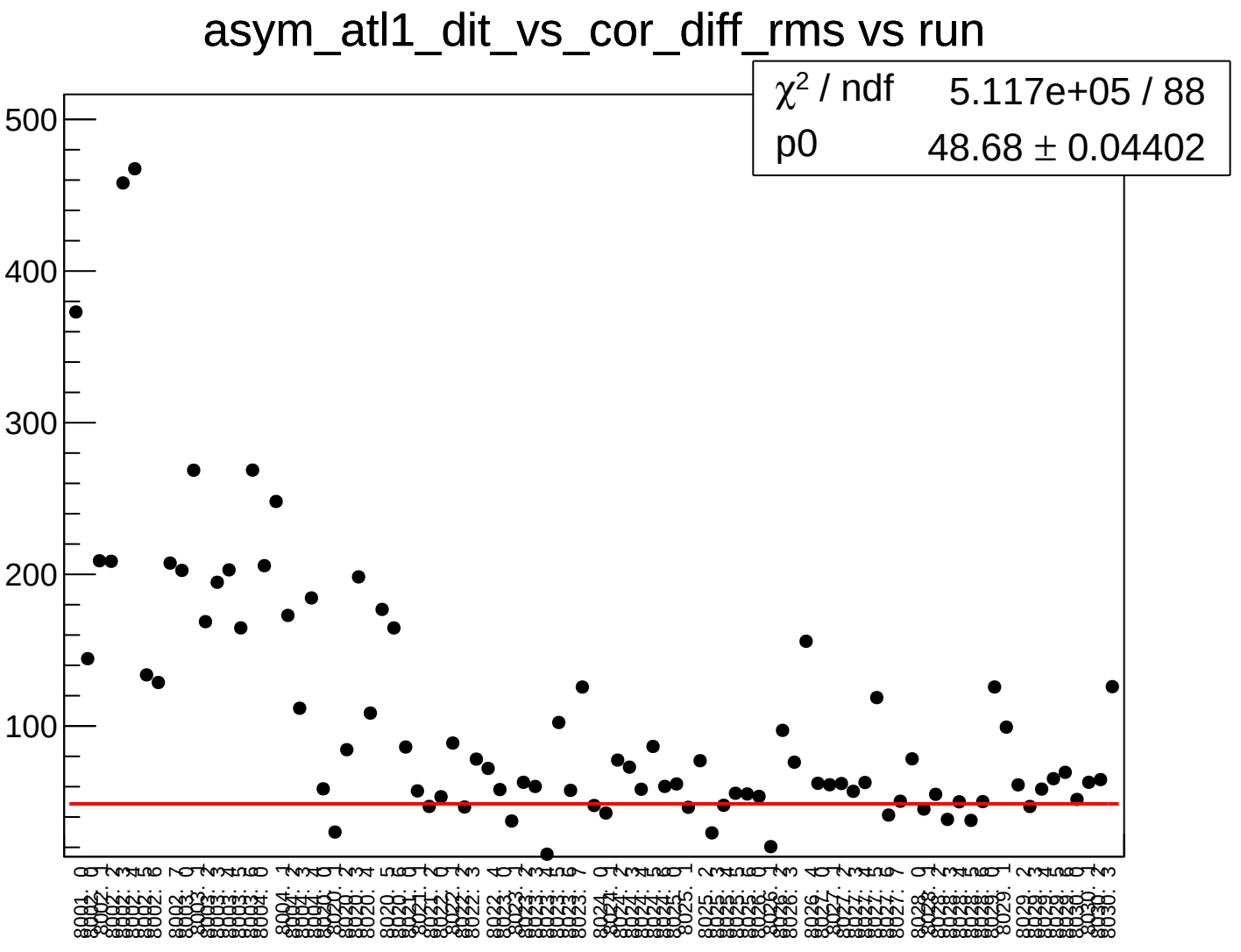

asym_atl1_reg_vs_cor_diff_mean vs run
χ² / ndf 110.4 / 88
p0 −2.109e−14 ± 5.868e−14
pull
Entries 89
Mean 11.28
Std Dev 40.37

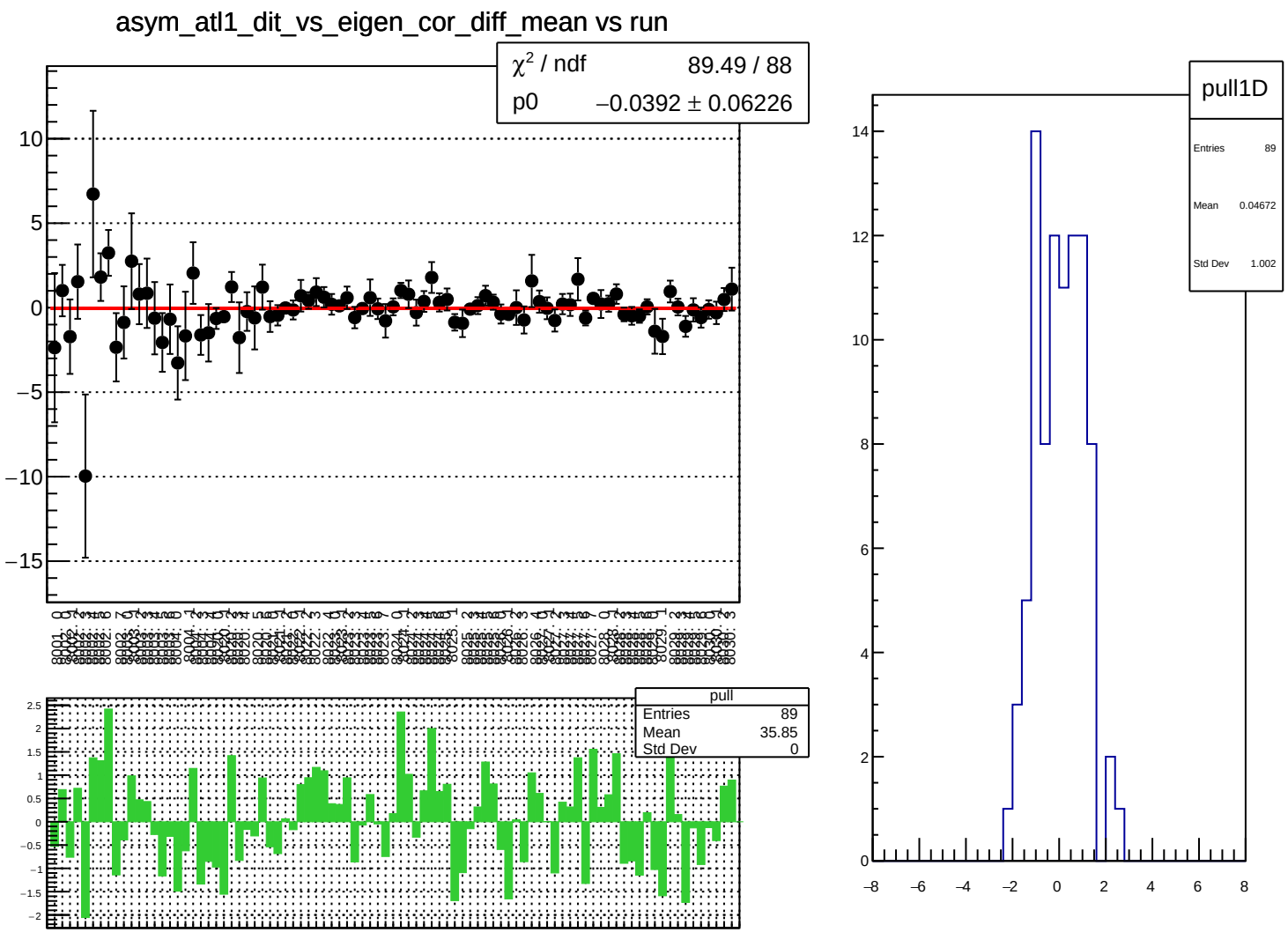

pull1D
Entries 89
Mean −0.04906
Std Dev 1.113

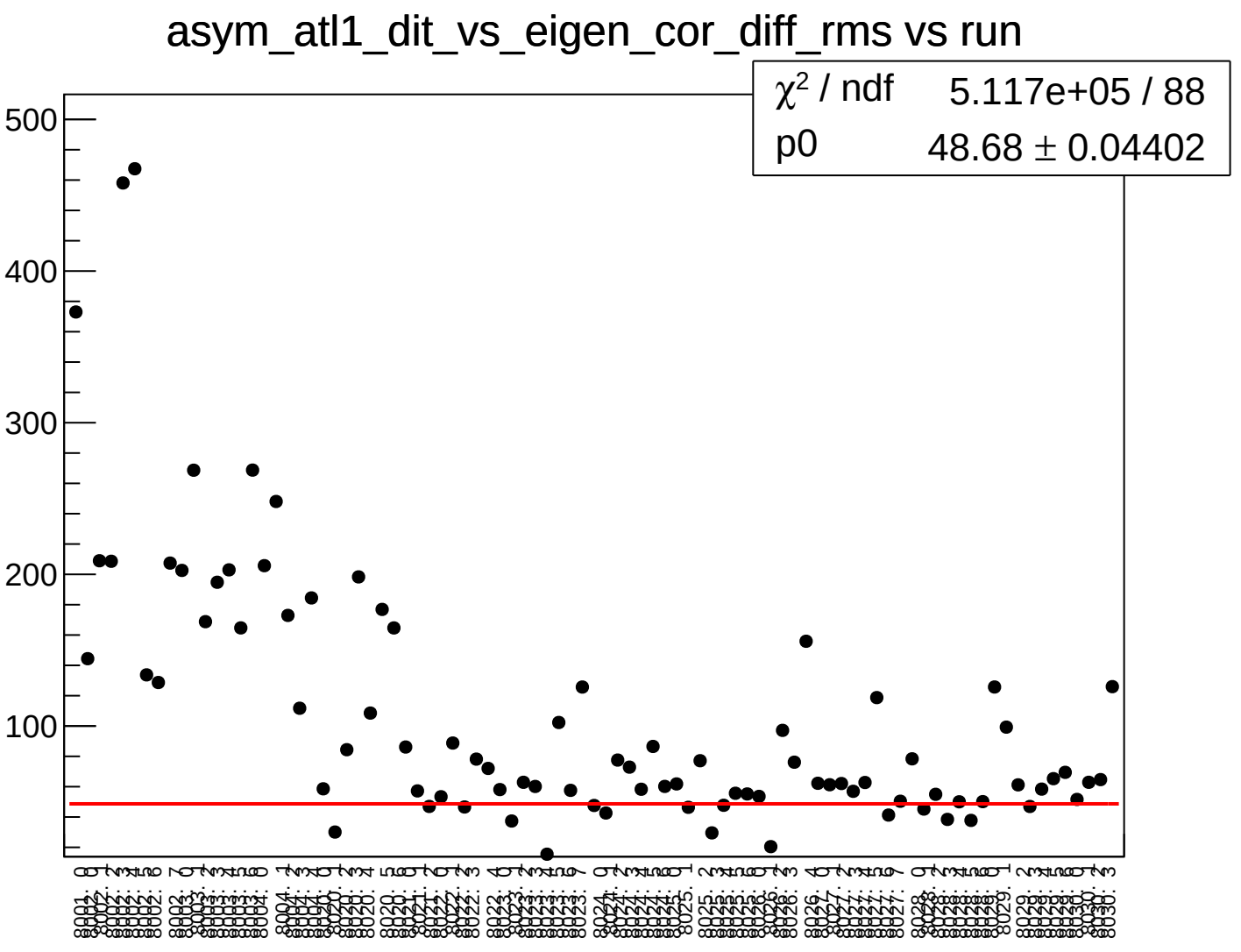

asym_atl1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.09e+06 / 88
p0 3.332e−11 ± 4.149e−14
1.2
1
0.8
0.6
0.4
0.2
0

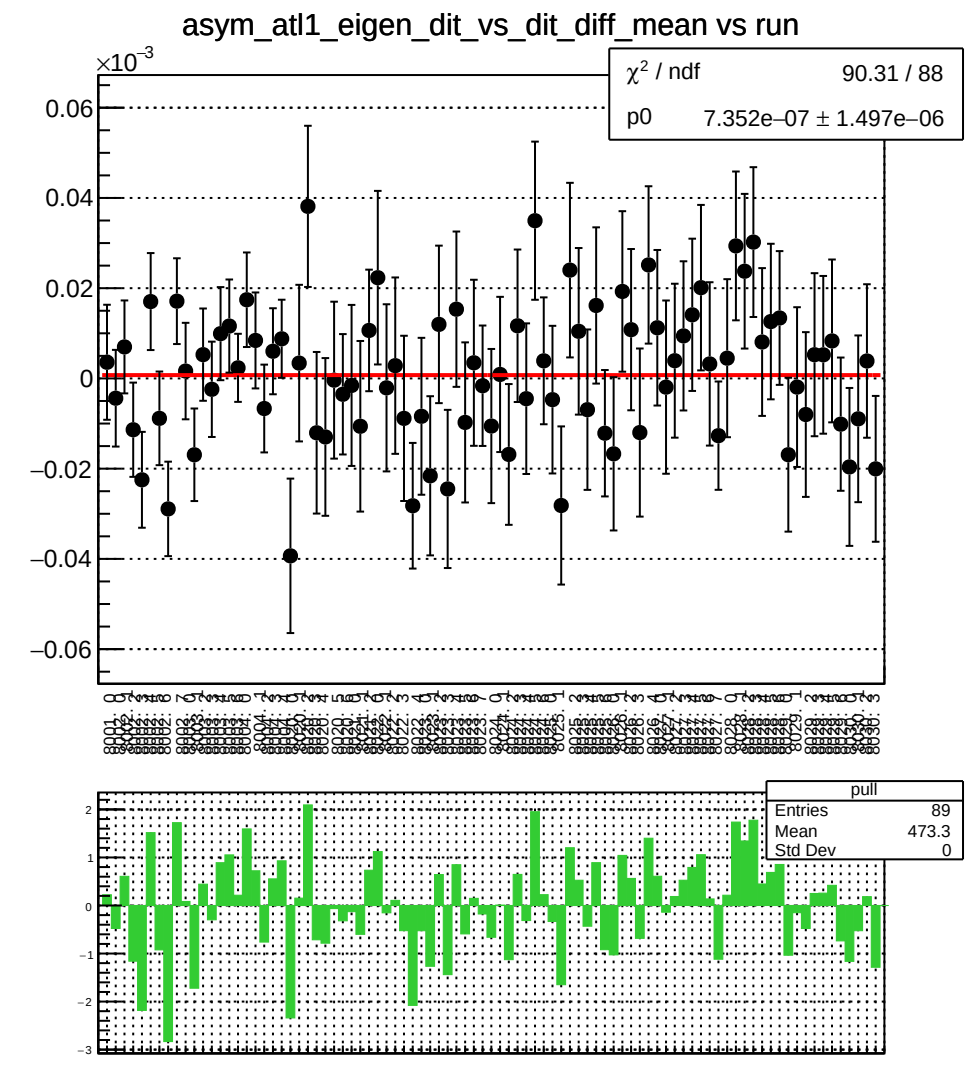

asym_atl1_dit_vs_cor_diff_mean vs run
χ² / ndf 89.49 / 88
p0 −0.0392 ± 0.06226
pull
Entries 89
Mean 35.85
Std Dev 0

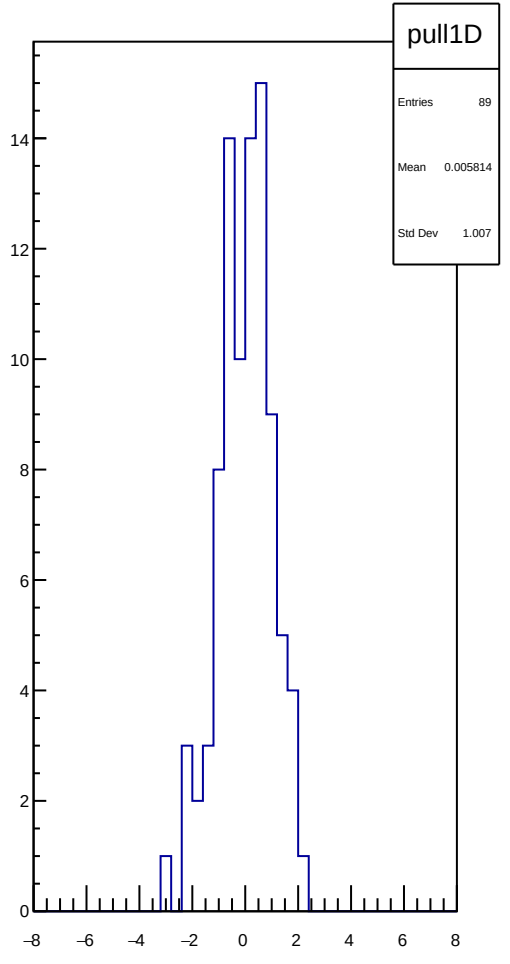

pull1D
Entries 89
Mean 0.04672
Std Dev 1.002

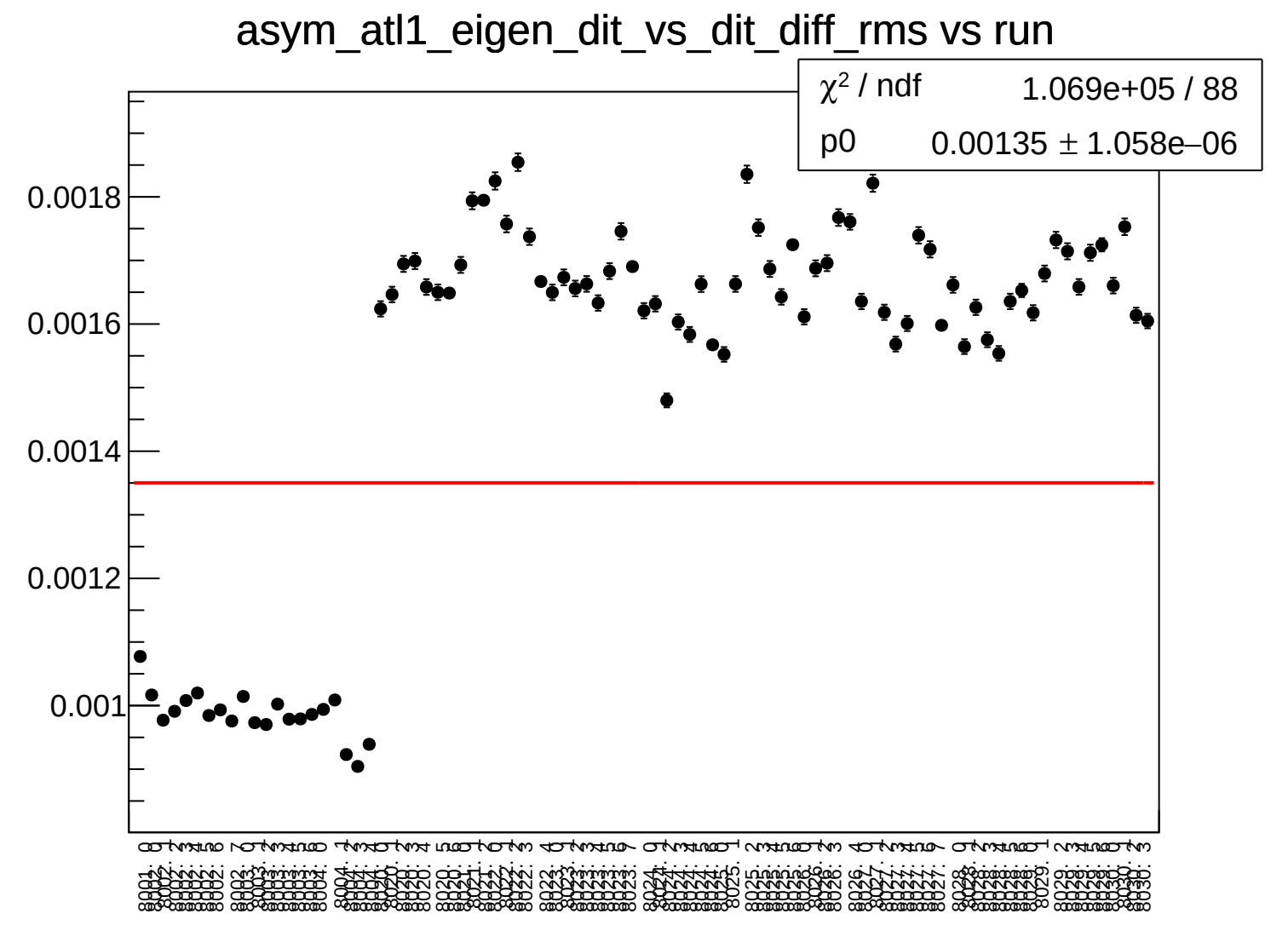

asym_atl1_dit_vs_cor_diff_rms vs run
χ² / ndf 5.117e+05 / 88
p0 48.68 ± 0.04402
500
400
300
200
100

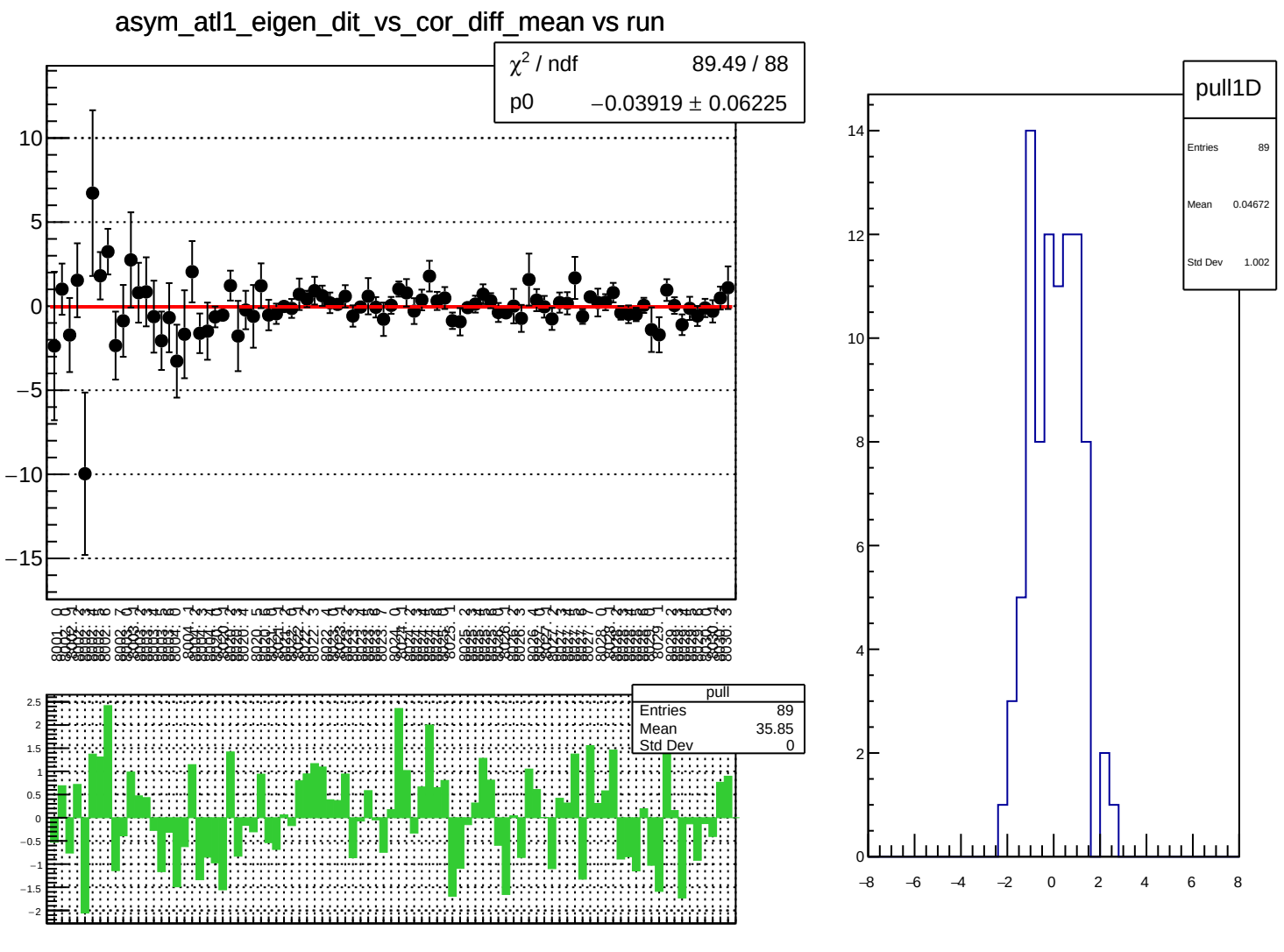

asym_atl1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.49 / 88
p0 −0.0392 ± 0.06226
pull
Entries 89
Mean 35.85
Std Dev 0
pull1D
Entries 89
Mean 0.04672
Std Dev 1.002

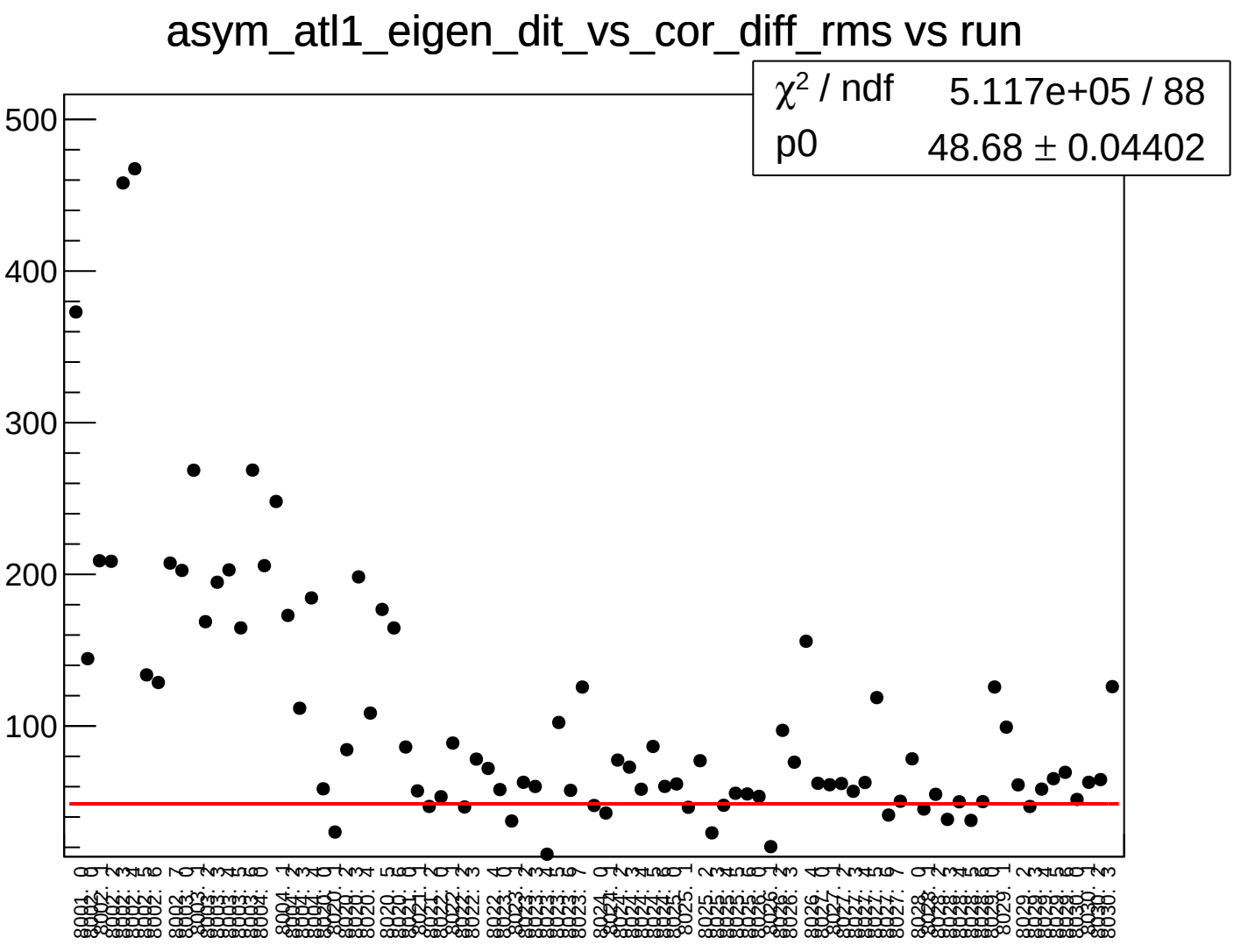

asym_atl1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.117e+05 / 88
p0 48.68 ± 0.04402
500
400
300
200
100

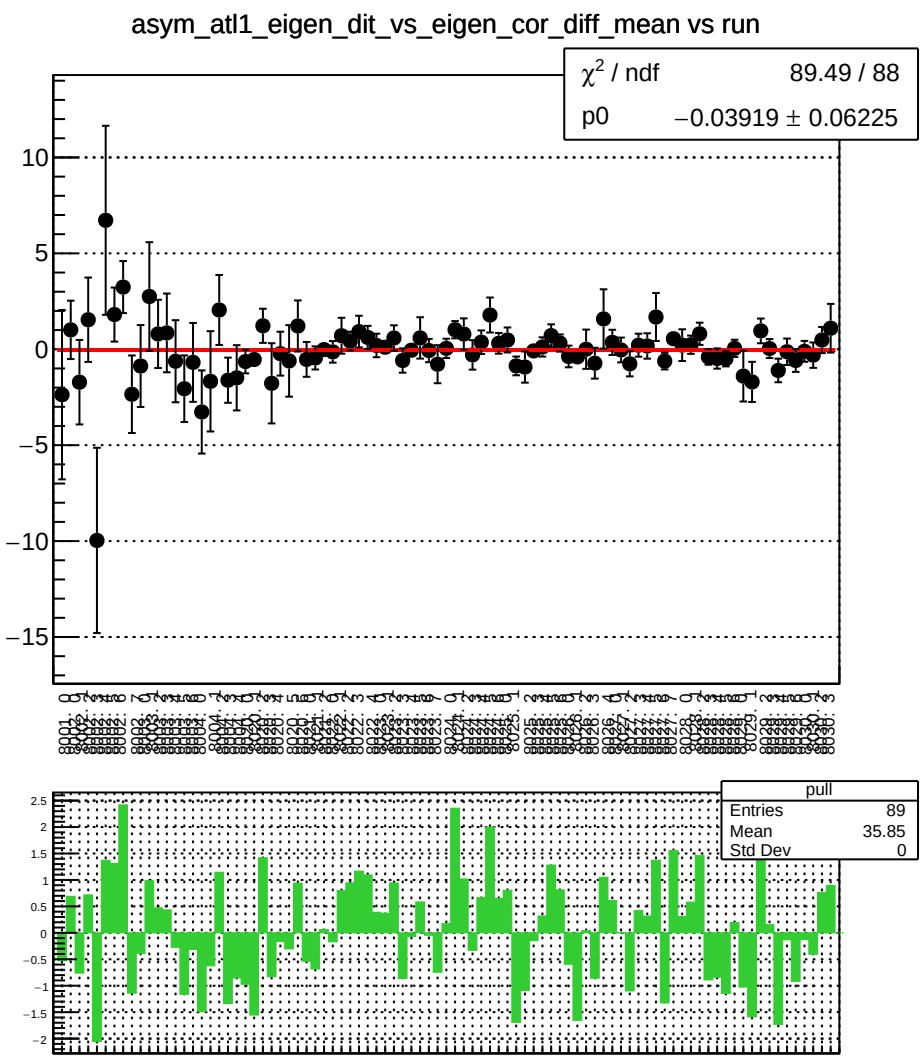

asym_atl1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.31 / 88
p0 7.352e−07 ± 1.497e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 89
Mean 473.3
Std Dev 0
2
1
0
−1
−2
−3

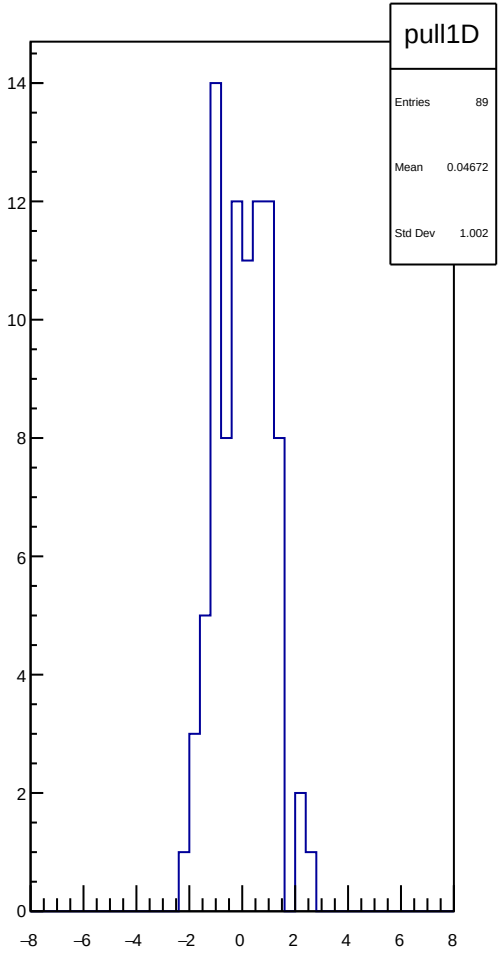

pull1D
Entries 89
Mean 0.005814
Std Dev 1.007
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

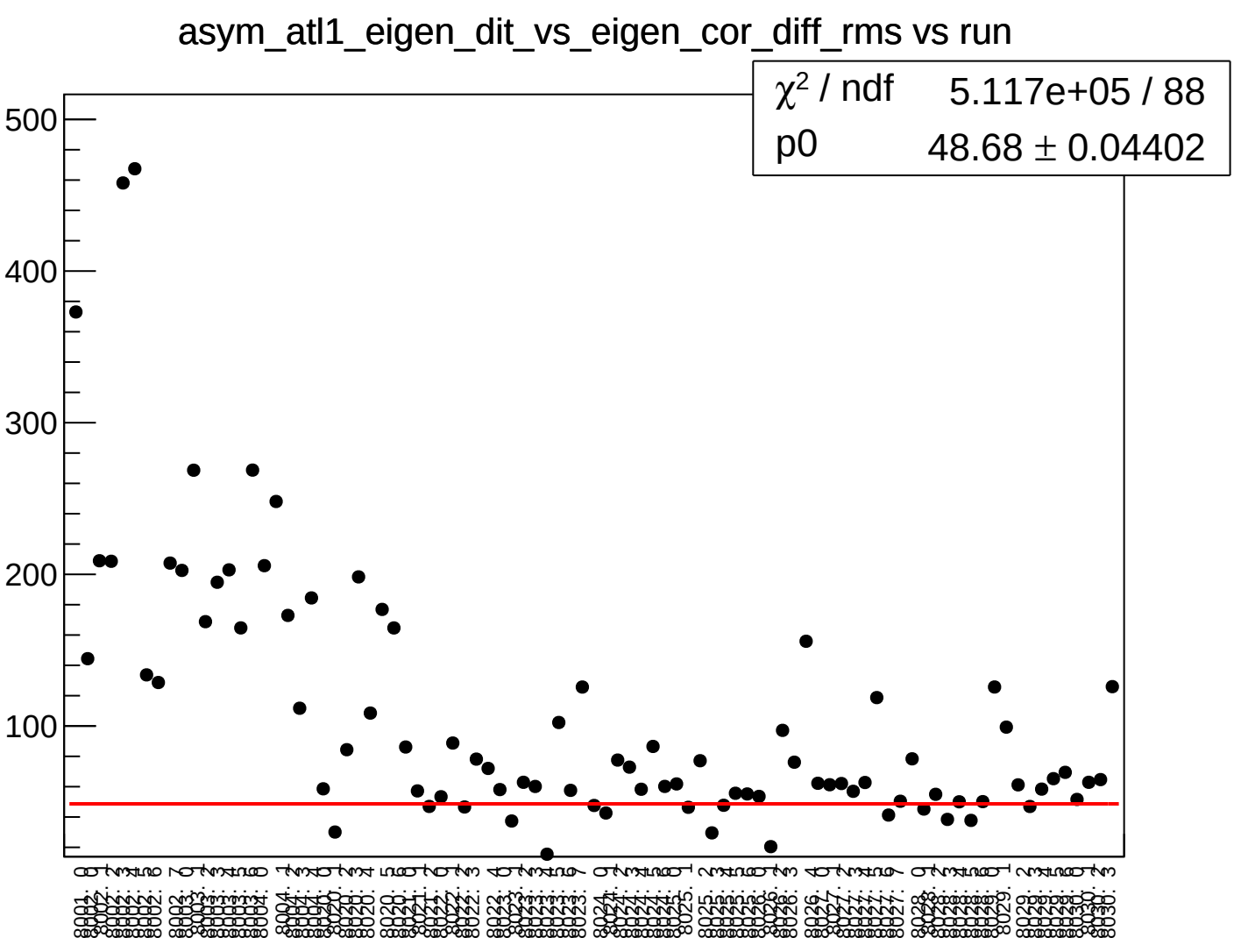

asym_atl1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.069e+05 / 88
p0 0.00135 ± 1.058e−06
0.0018
0.0016
0.0014
0.0012
0.001

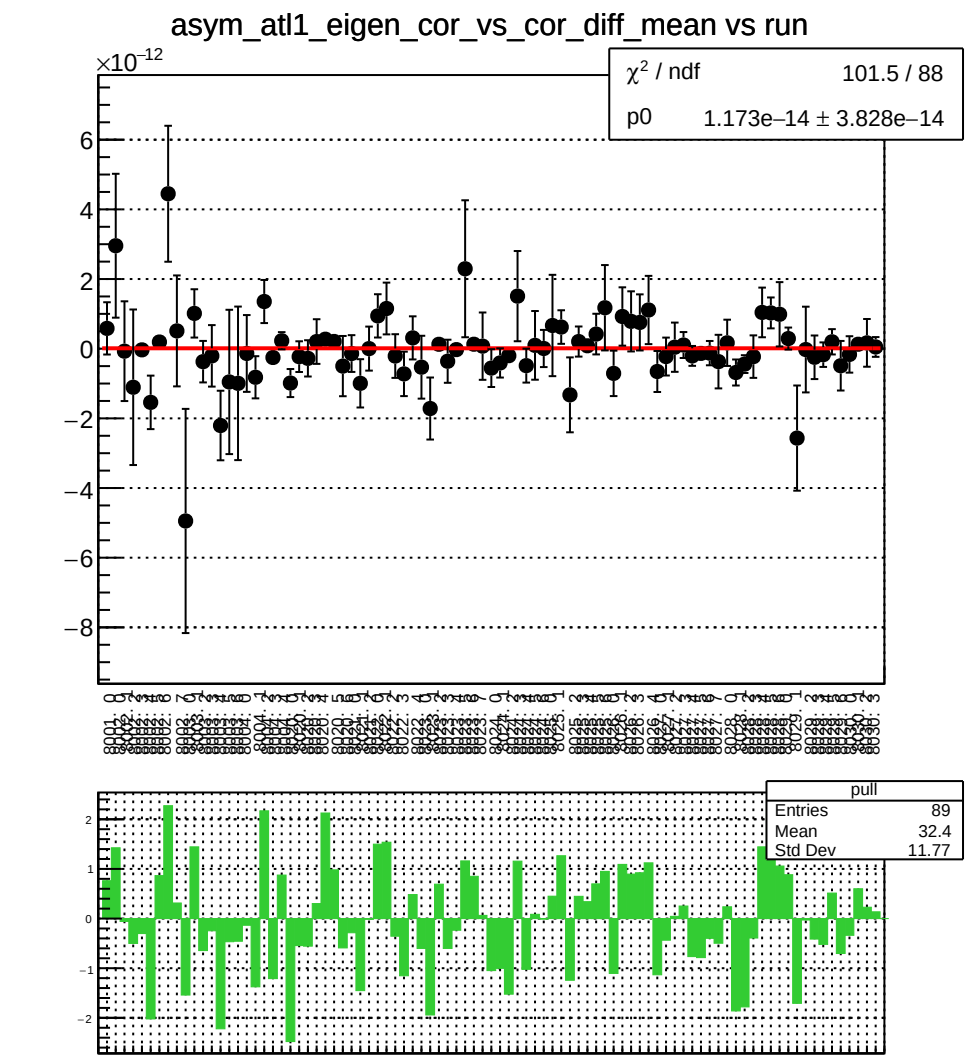

asym_atl1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.49 / 88
p0 −0.03919 ± 0.06225
pull
Entries 89
Mean 35.85
Std Dev 0
pull1D
Entries 89
Mean 0.04672
Std Dev 1.002

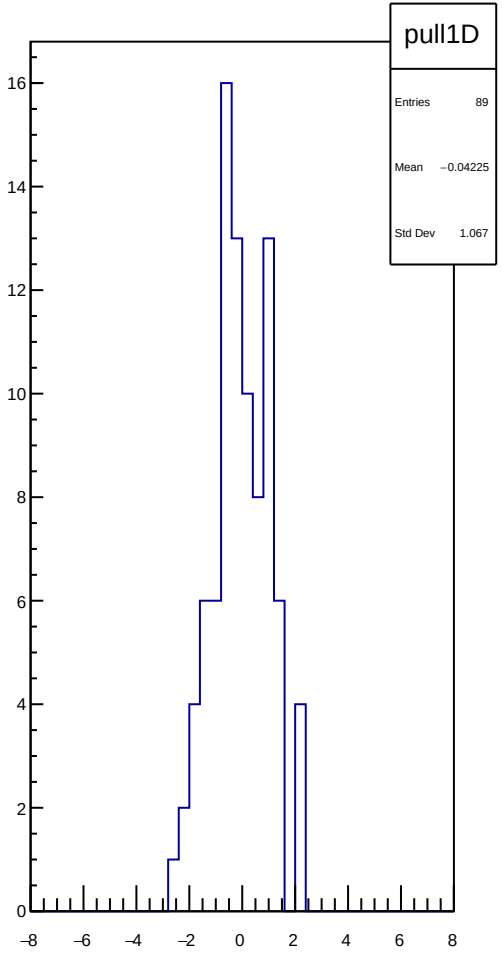

asym_atl1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.117e+05 / 88
p0 48.68 ± 0.04402
500
400
300
200
100

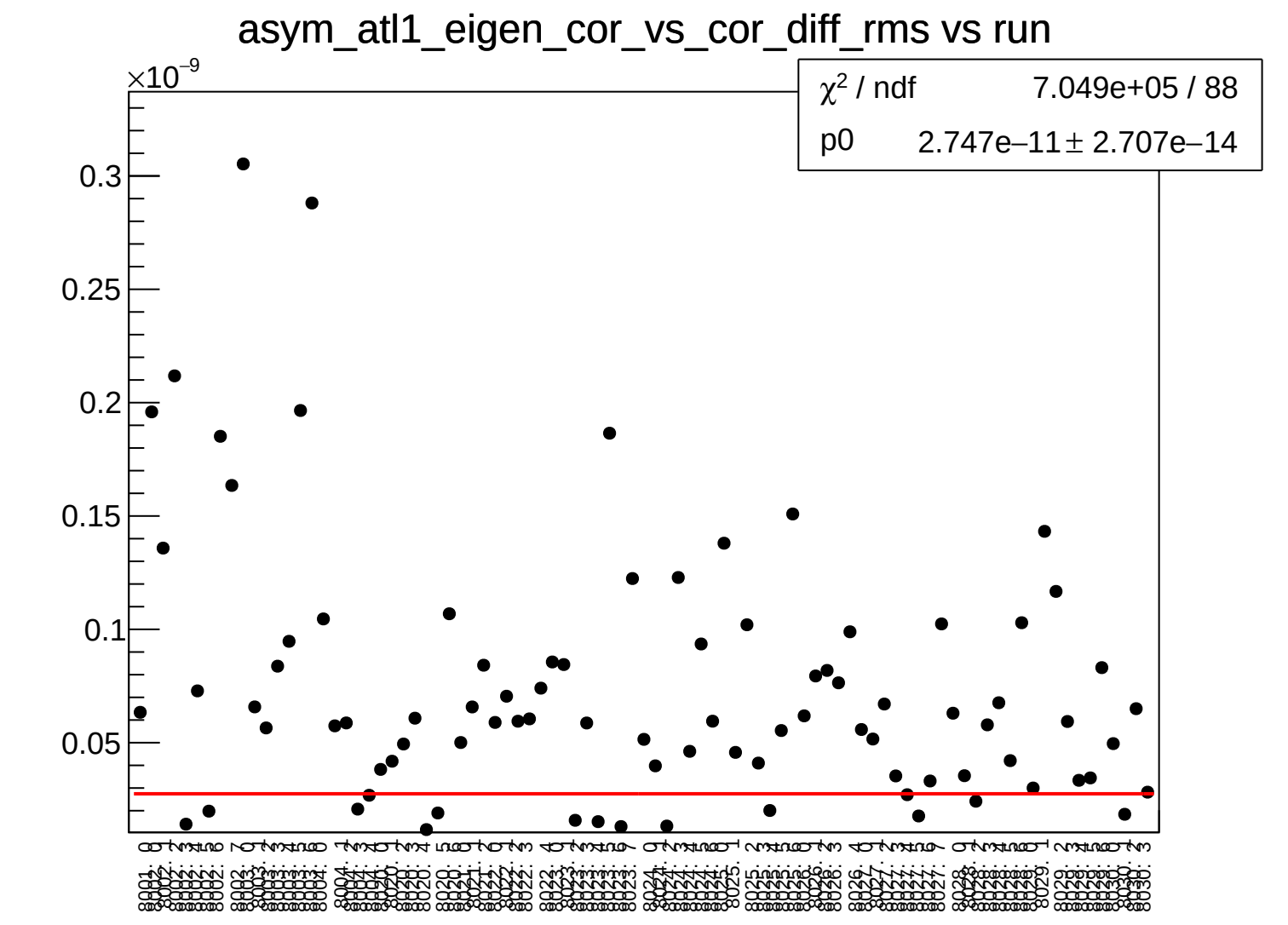

asym_atl1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.49 / 88
p0 −0.03919 ± 0.06225
pull
Entries 89
Mean 35.85
Std Dev 0

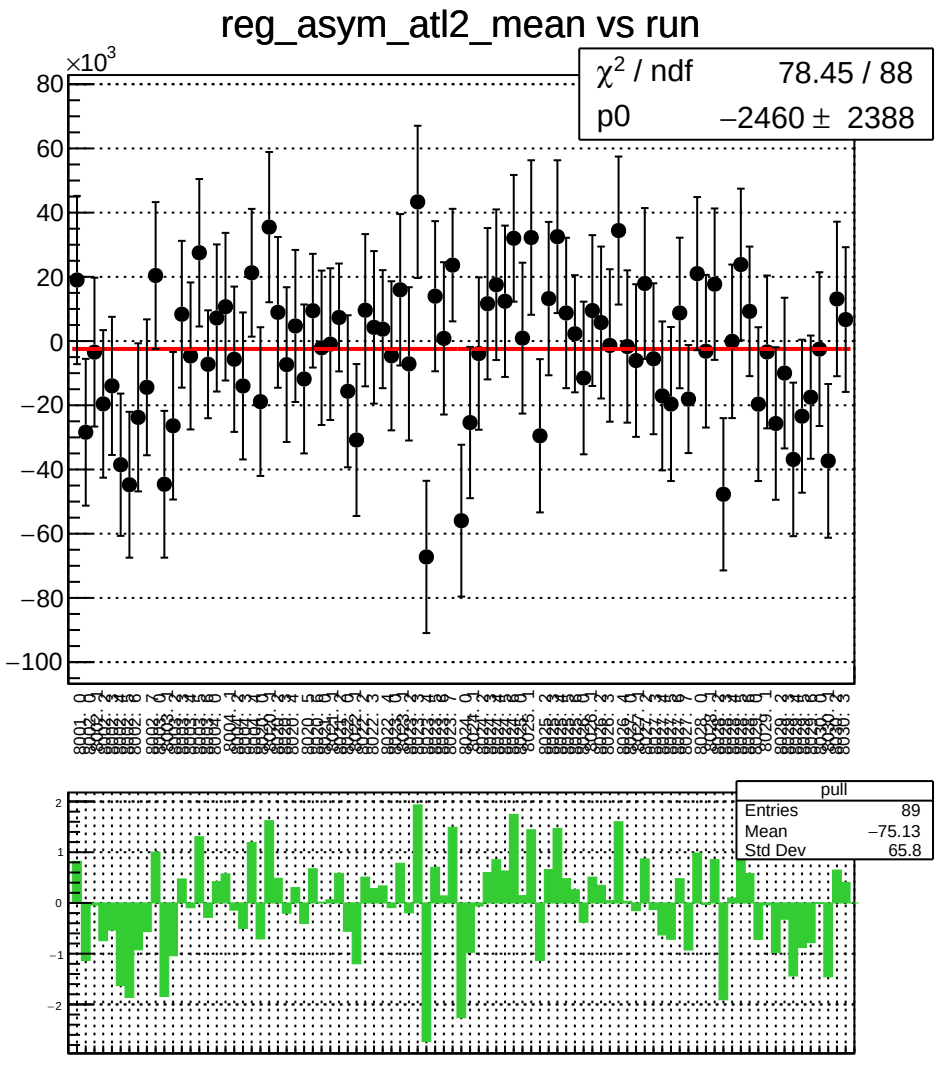

pull1D
Entries 89
Mean 0.04672
Std Dev 1.002

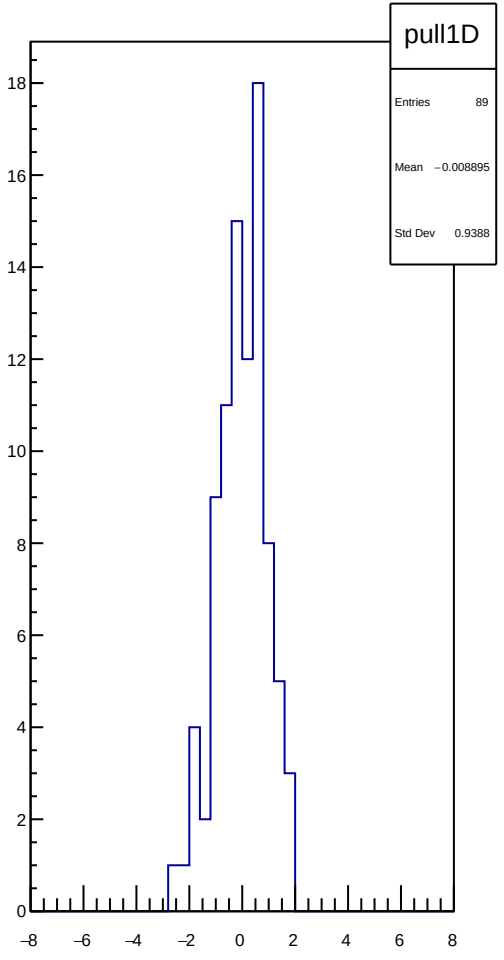

asym_atl1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.117e+05 / 88
p0 48.68 ± 0.04402
500
400
300
200
100

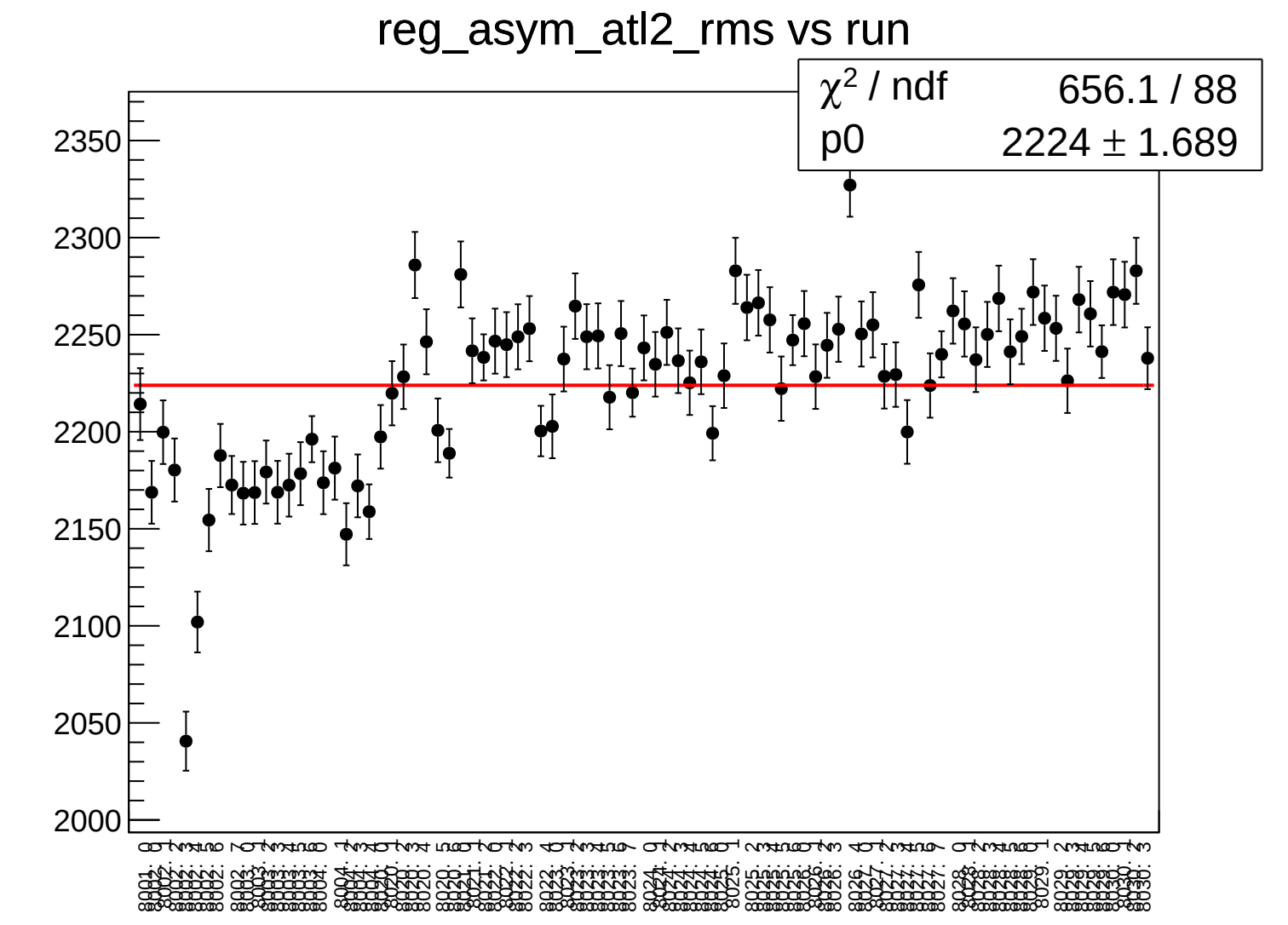

asym_atl1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 101.5 / 88
p0 1.173e−14 ± 3.828e−14
pull
Entries 89
Mean 32.4
Std Dev 11.77

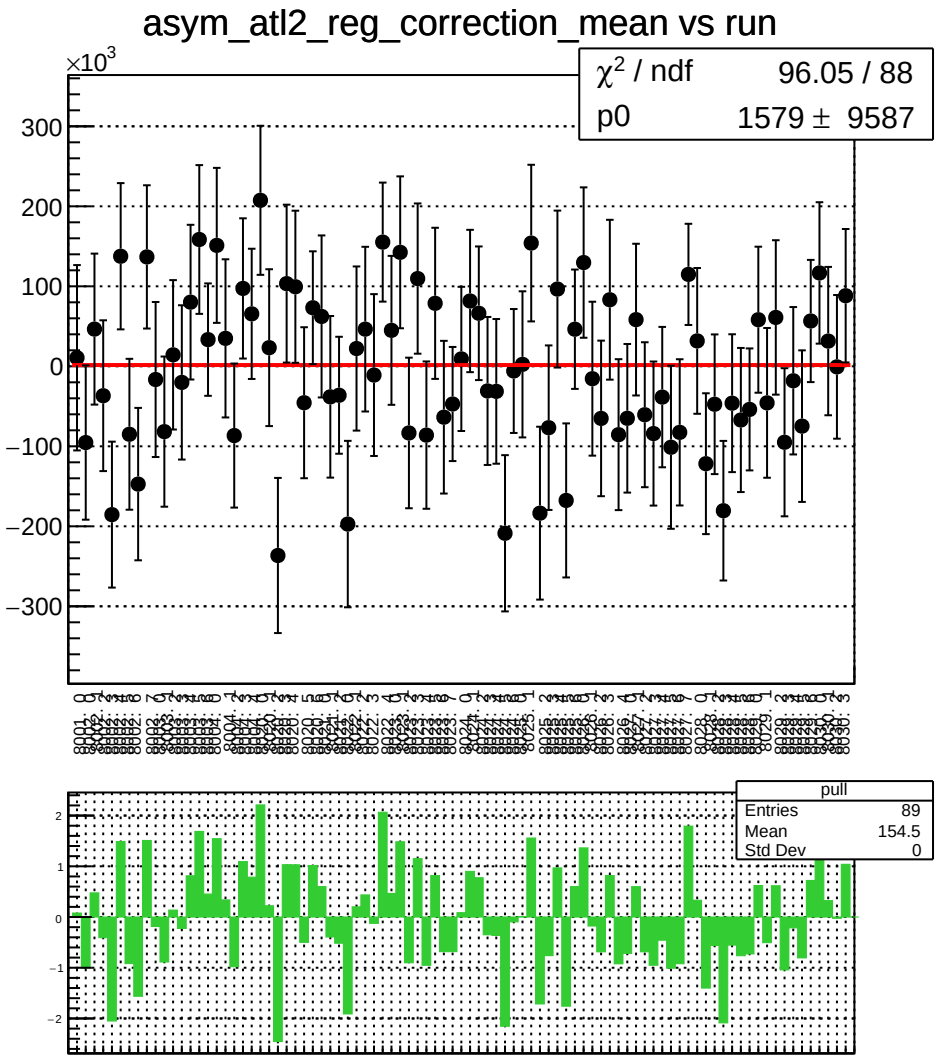

pull1D
Entries 89
Mean −0.04225
Std Dev 1.067

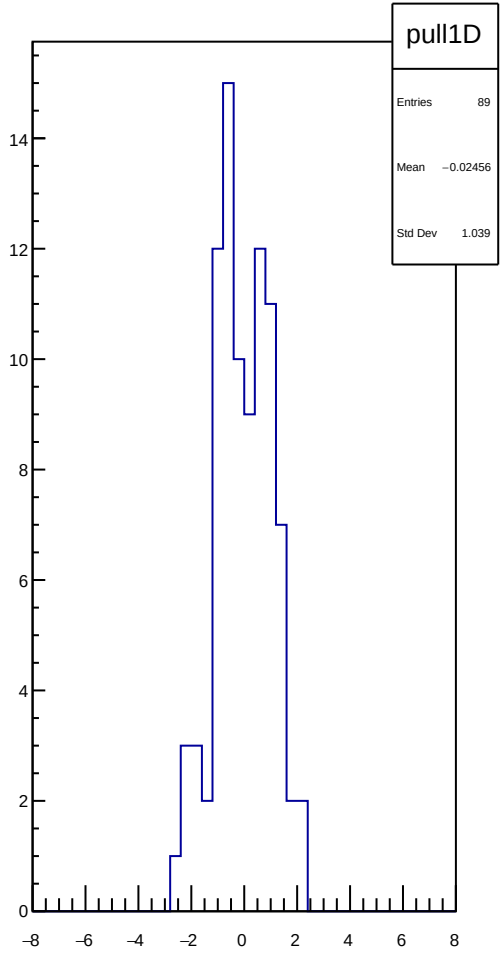

asym_atl1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.049e+05 / 88
p0 2.747e−11 ± 2.707e−14
0.3
0.25
0.2
0.15
0.1
0.05

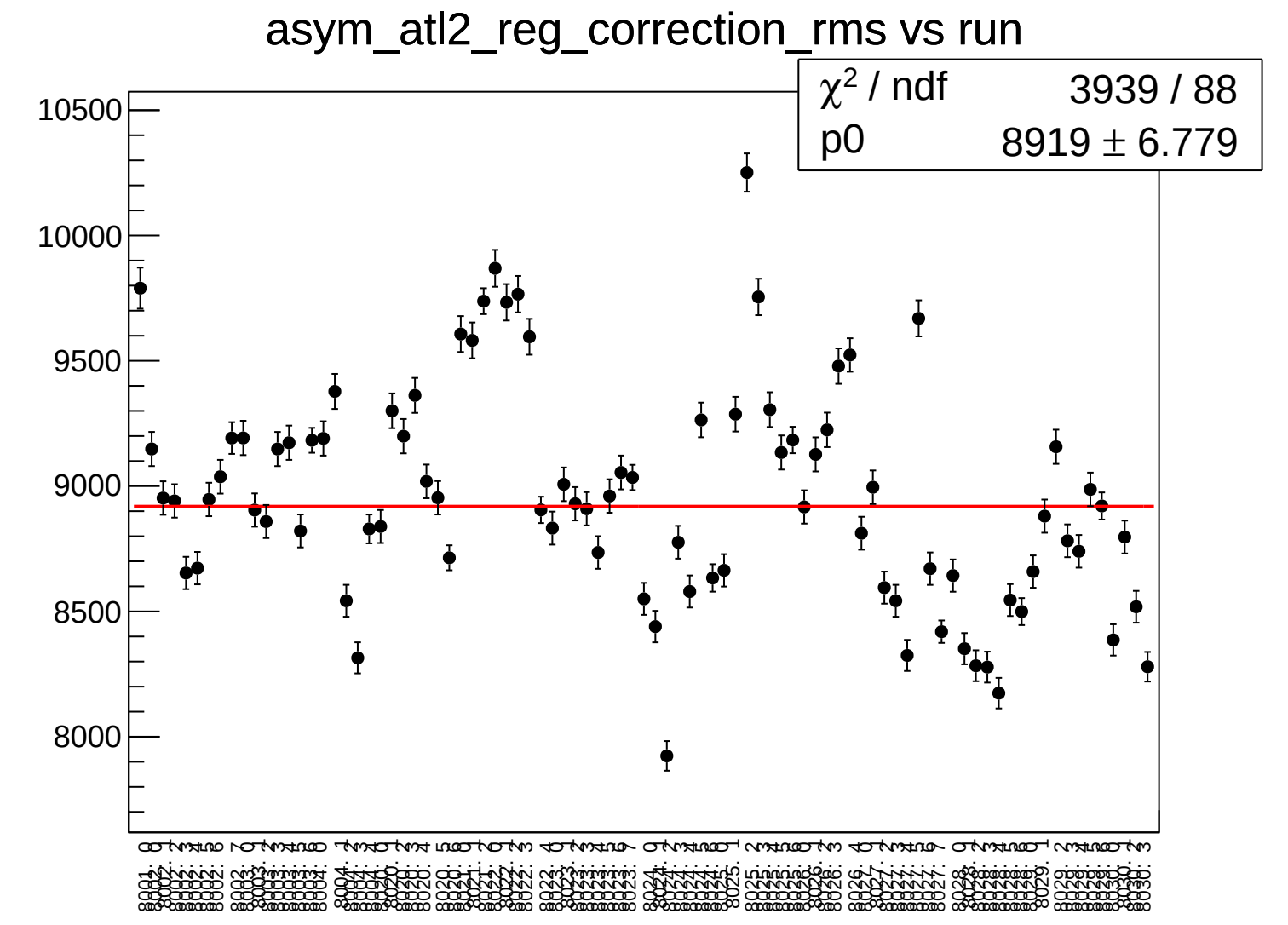

reg_asym_atl2_mean vs run
×10^3
χ^2 / ndf 78.45 / 88
p0 −2460 ± 2388
pull
Entries 89
Mean −75.13
Std Dev 65.8

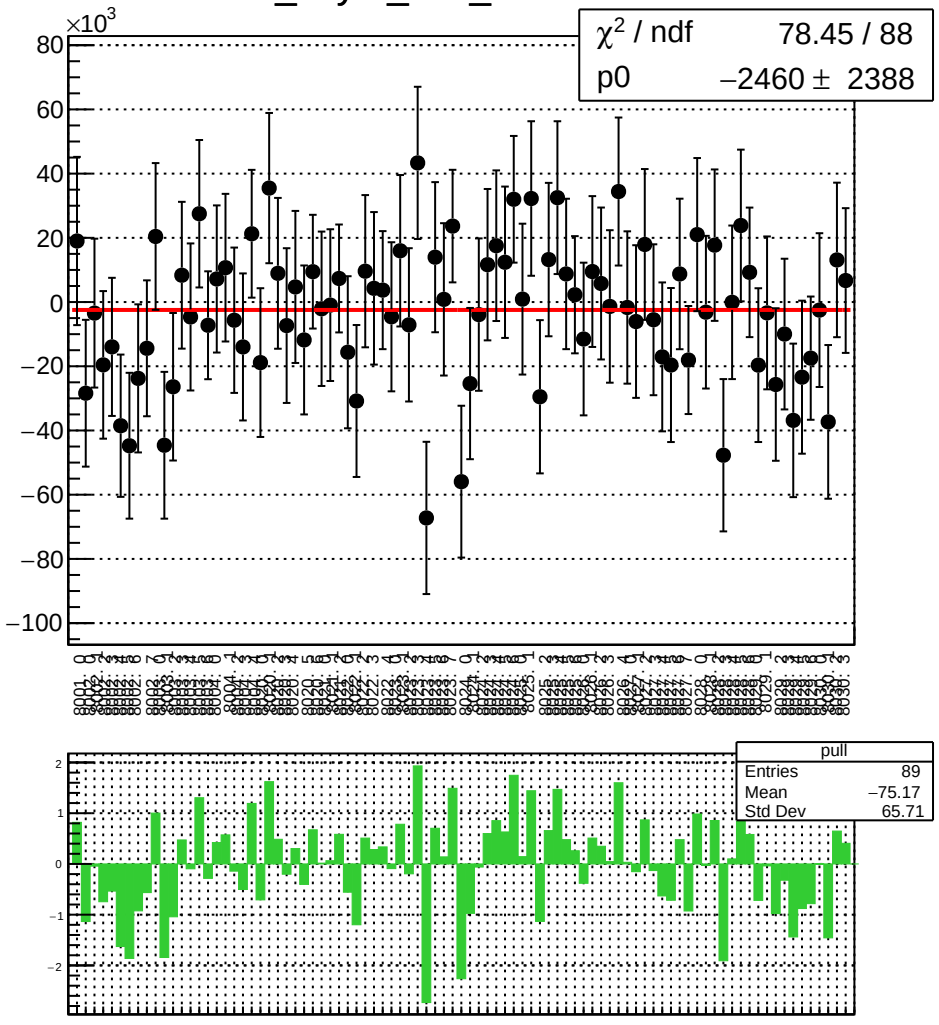

pull1D
Entries 89
Mean −0.008895
Std Dev 0.9388

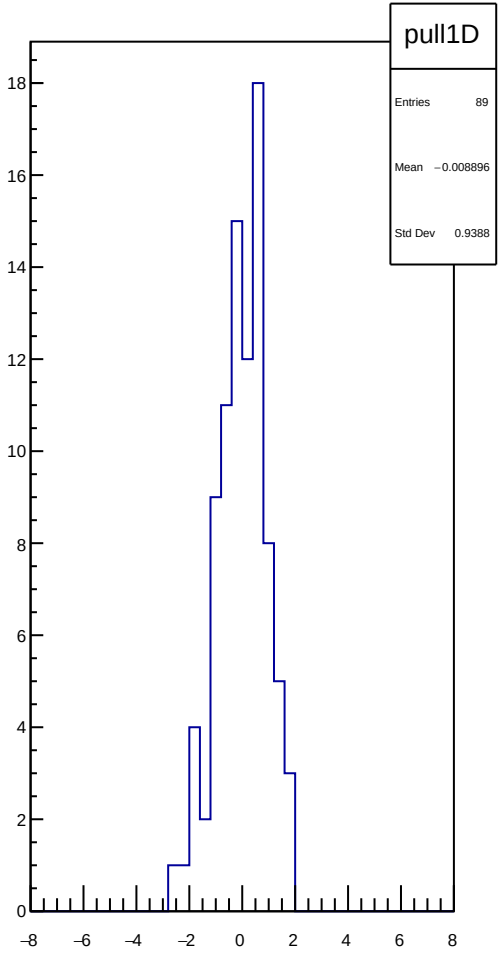

reg_asym_atl2_rms vs run
χ² / ndf 656.1 / 88
p0 2224 ± 1.689
2350
2300
2250
2200
2150
2100
2050
2000

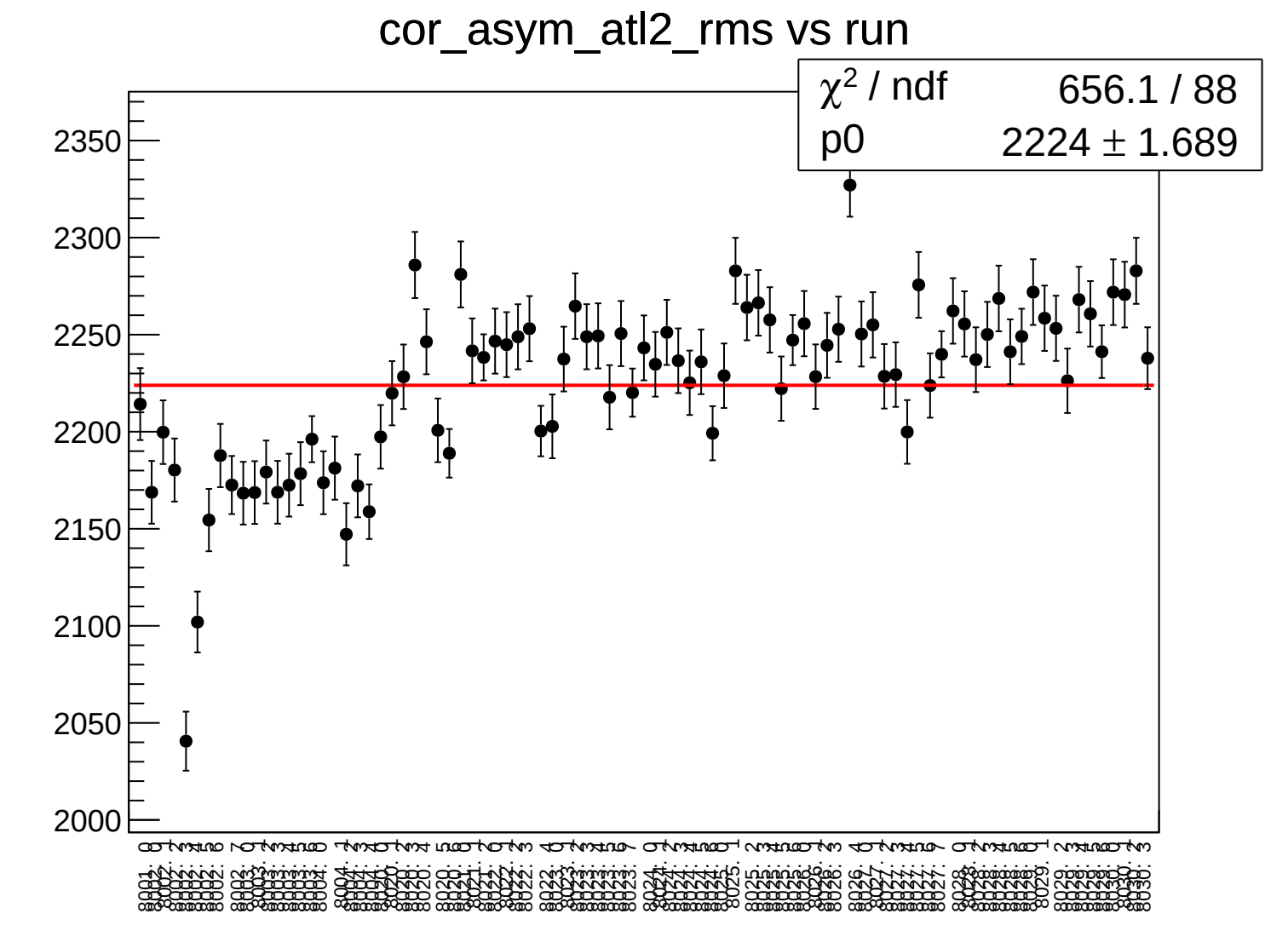

asym_atl2_reg_correction_mean vs run
×10^3
χ² / ndf 96.05 / 88
p0 1579 ± 9587
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean 154.5
Std Dev 0
2
1
0
−1
−2

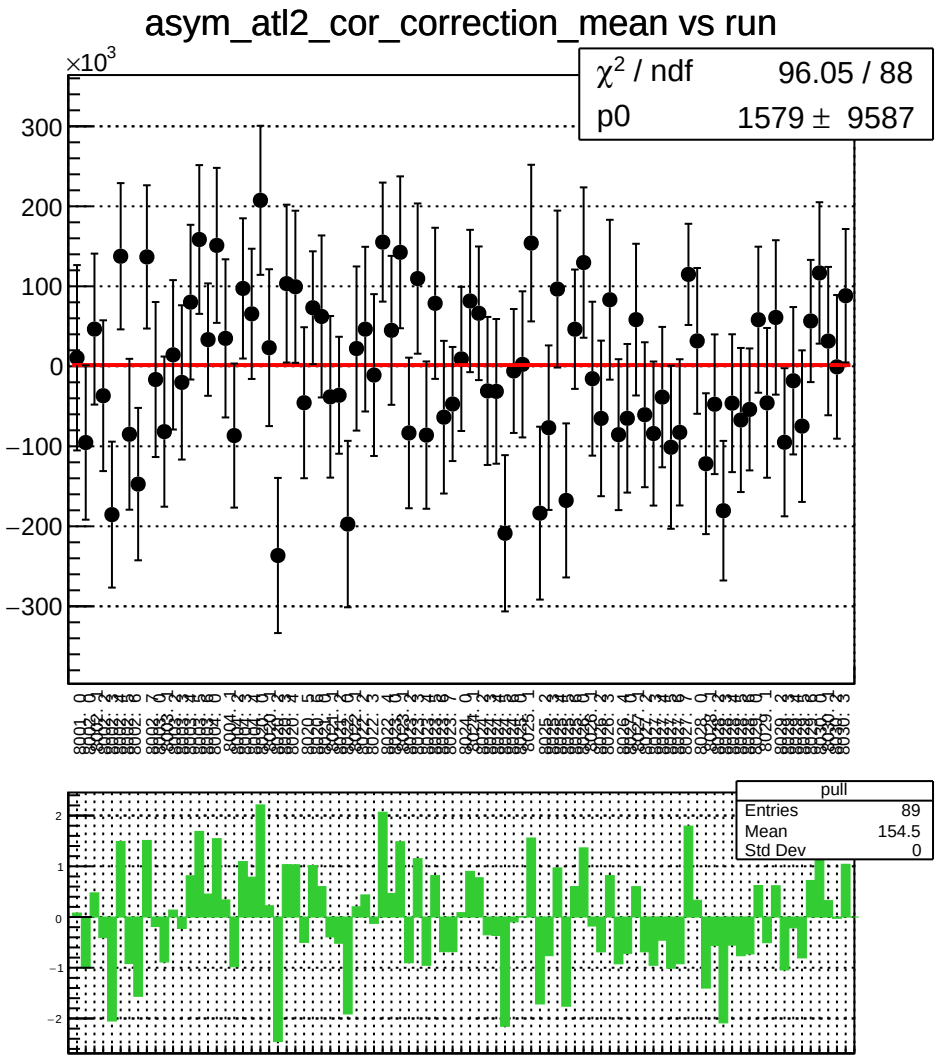

pull1D
Entries 89
Mean −0.02456
Std Dev 1.039
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

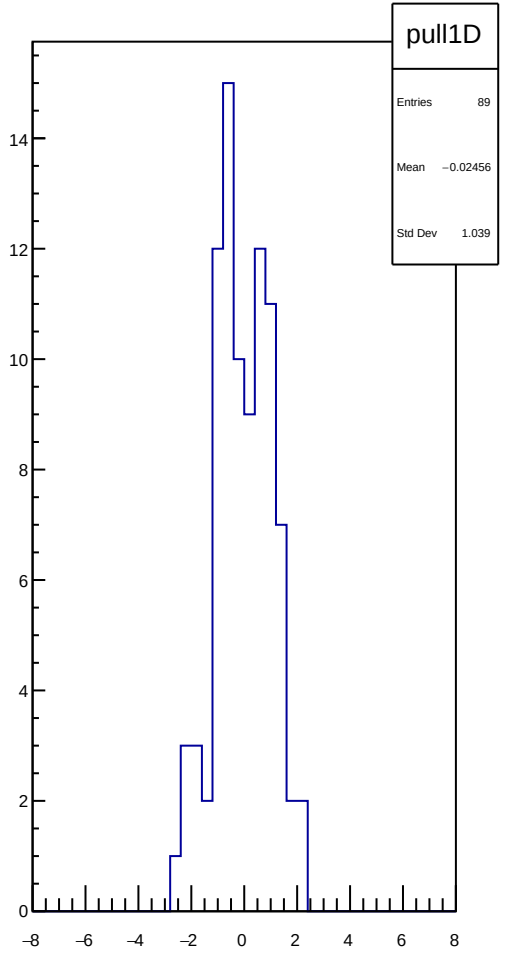

asym_atl2_reg_correction_rms vs run
χ² / ndf 3939 / 88
p0 8919 ± 6.779
10500
10000
9500
9000
8500
8000

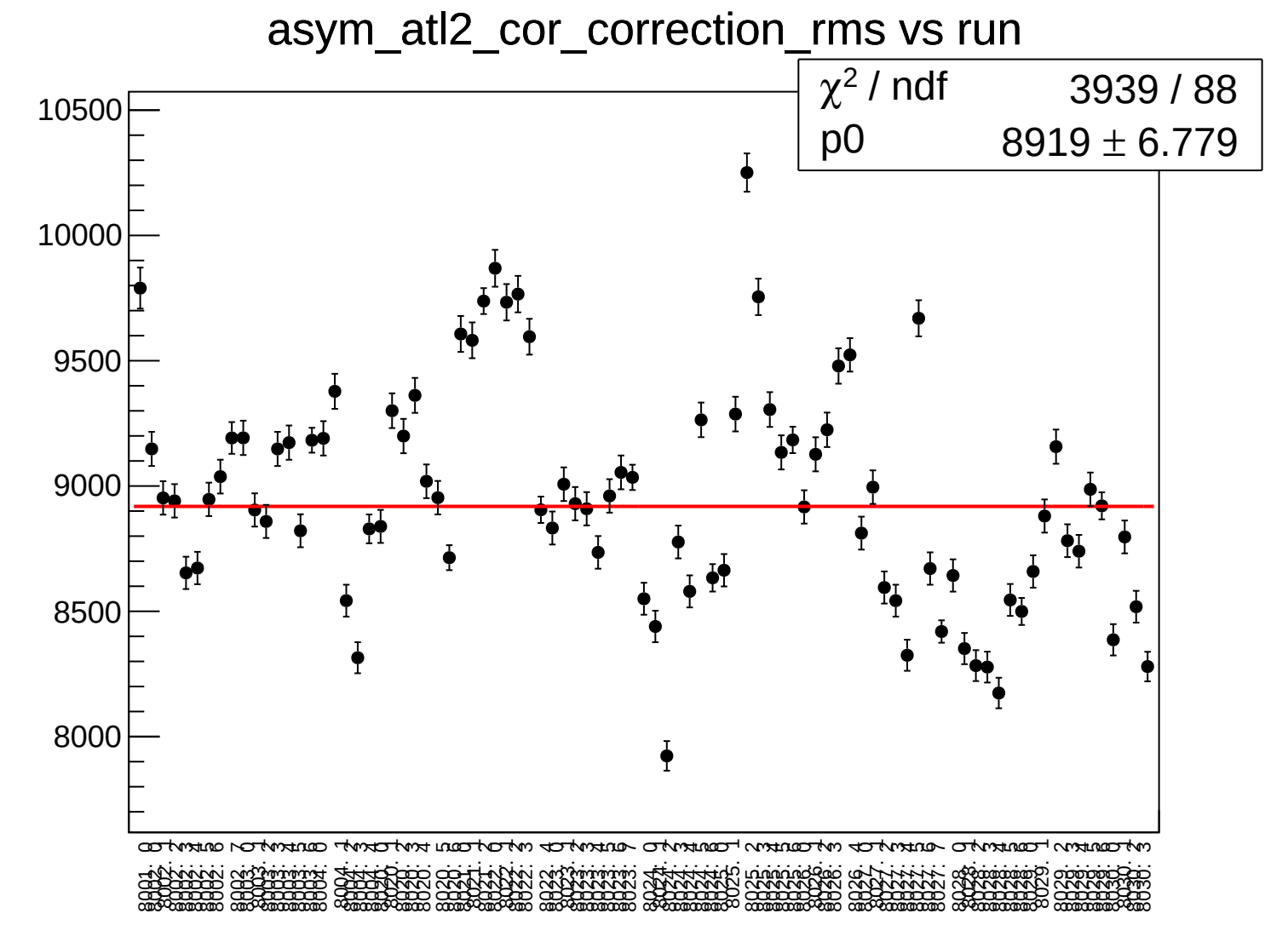

cor_asym_atl2_mean vs run
×10^3
χ^2 / ndf 78.45 / 88
p0 −2460 ± 2388
pull
Entries 89
Mean −75.17
Std Dev 65.71

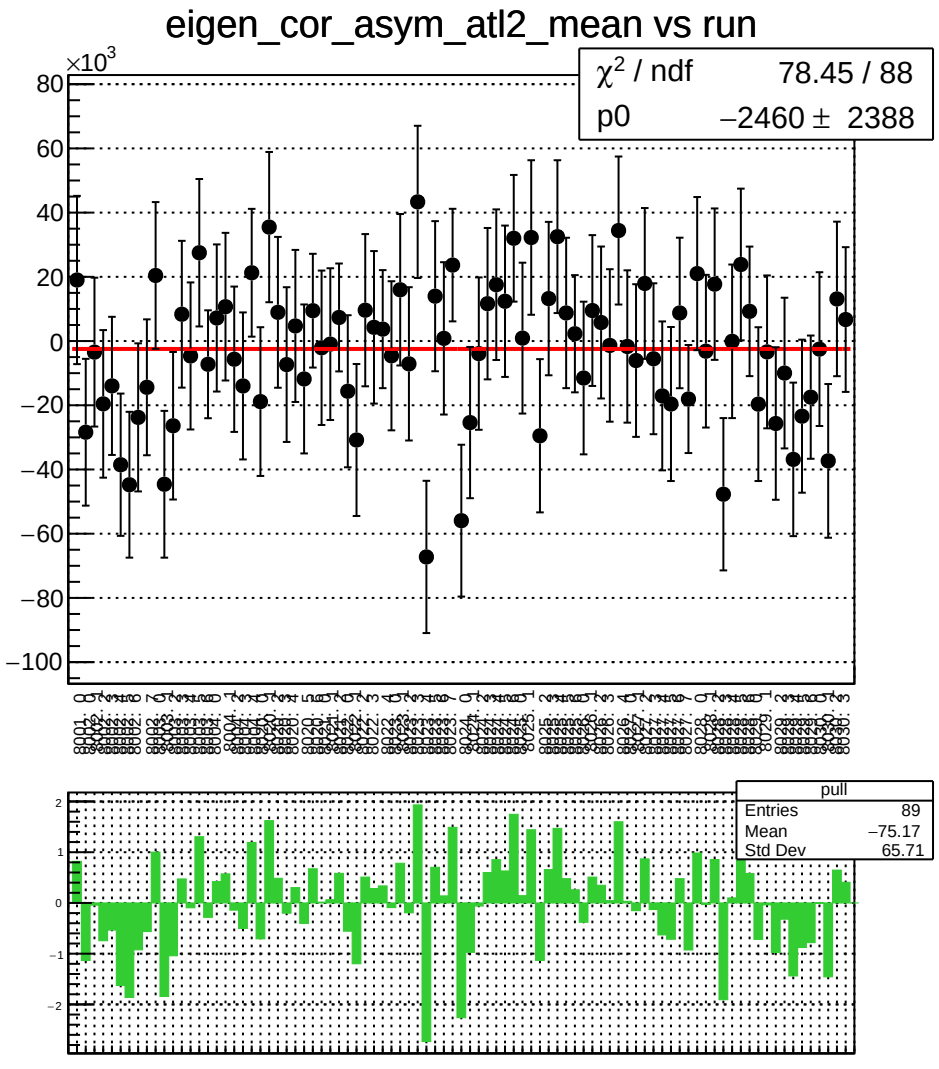

pull1D
Entries 89
Mean −0.008896
Std Dev 0.9388

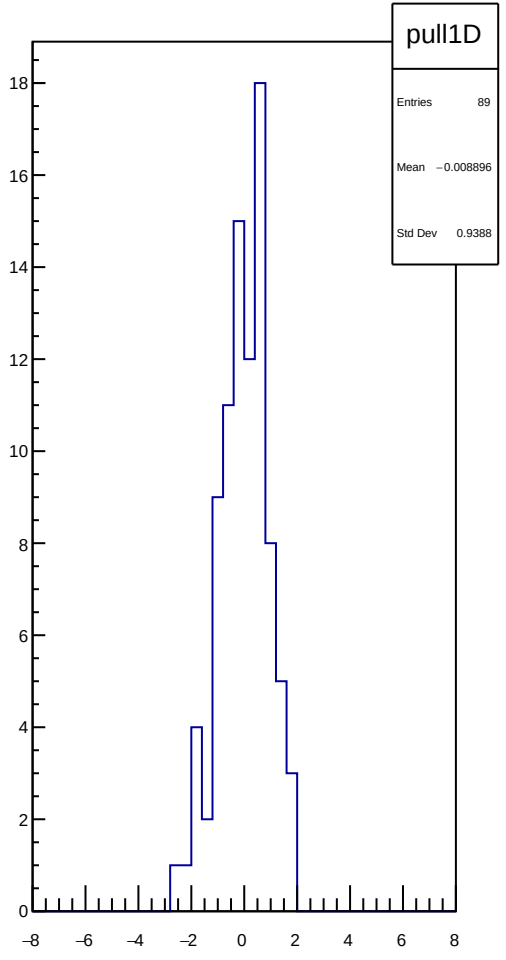

cor_asym_atl2_rms vs run
χ² / ndf 656.1 / 88
p0 2224 ± 1.689
2350
2300
2250
2200
2150
2100
2050
2000

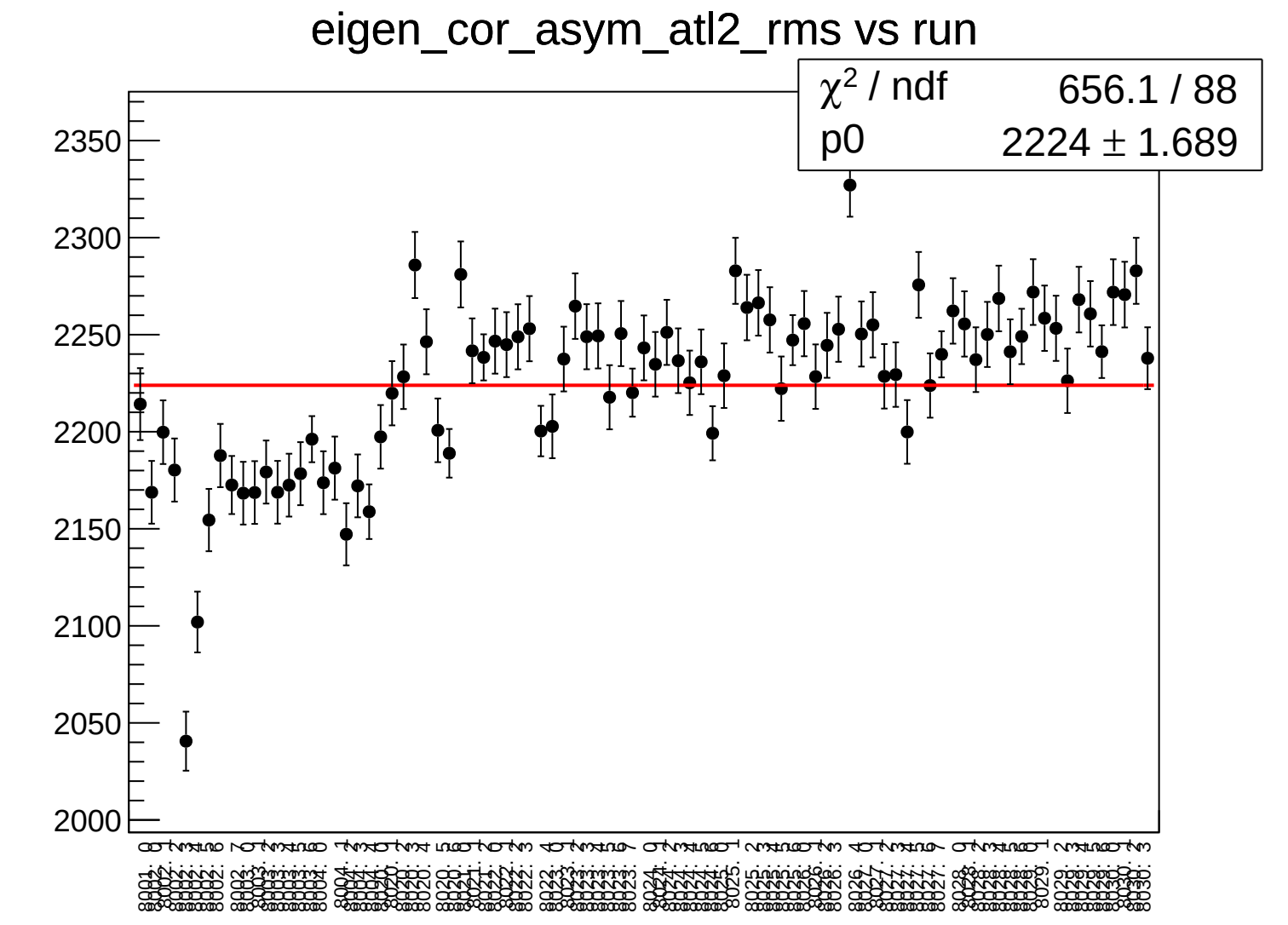

asym_atl2_cor_correction_mean vs run
×10^3
χ² / ndf 96.05 / 88
p0 1579 ± 9587
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean 154.5
Std Dev 0
2
1
0
−1
−2

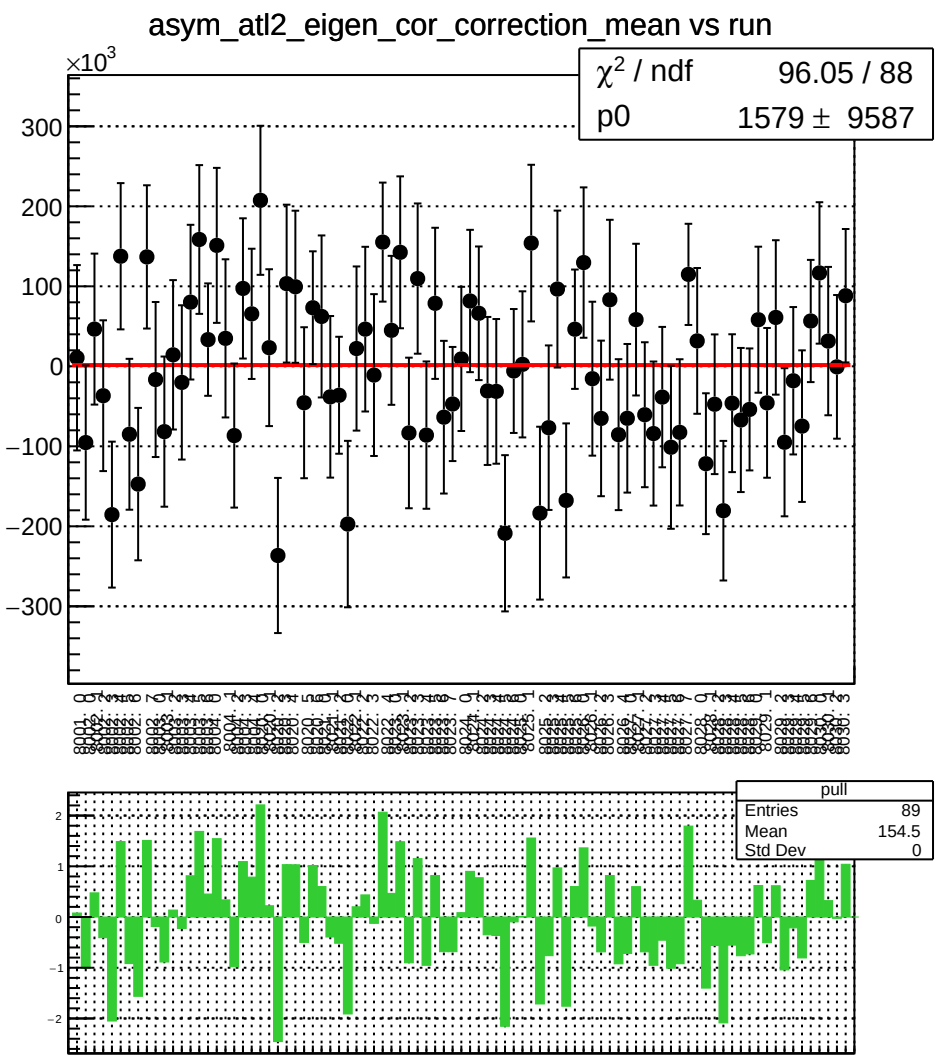

pull1D
Entries 89
Mean −0.02456
Std Dev 1.039
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

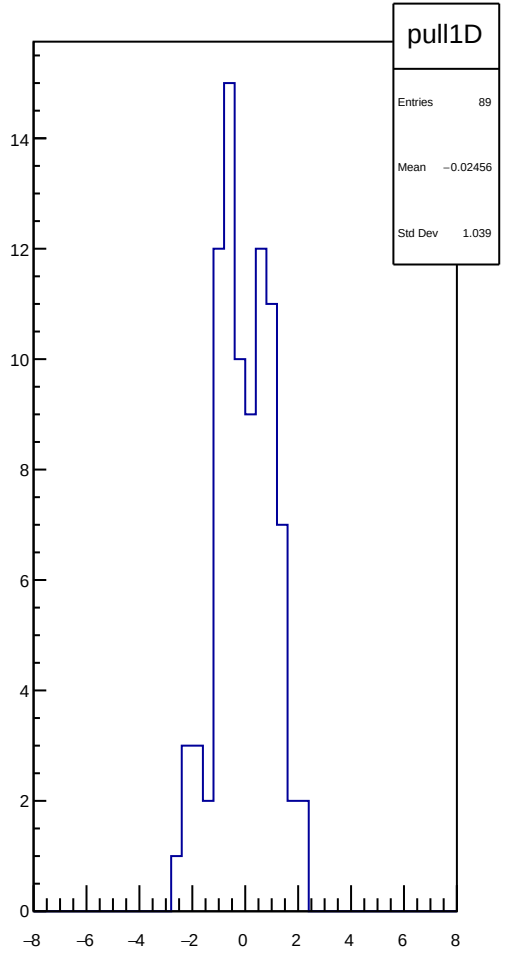

asym_atl2_cor_correction_rms vs run
χ² / ndf 3939 / 88
p0 8919 ± 6.779
10500
10000
9500
9000
8500
8000

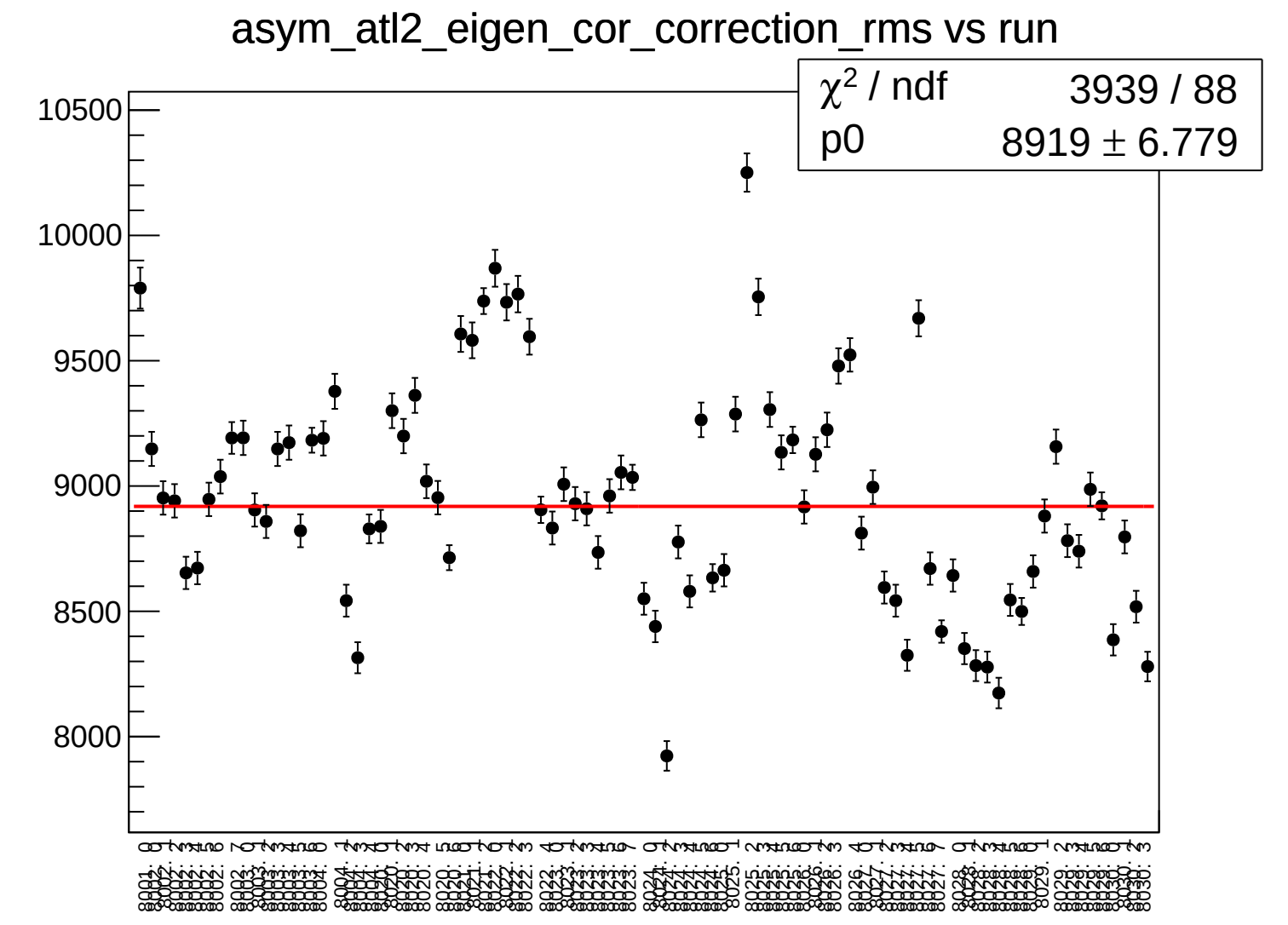

eigen_cor_asym_atl2_mean vs run
×10^3
χ^2 / ndf 78.45 / 88
p0 −2460 ± 2388
pull
Entries 89
Mean −75.17
Std Dev 65.71

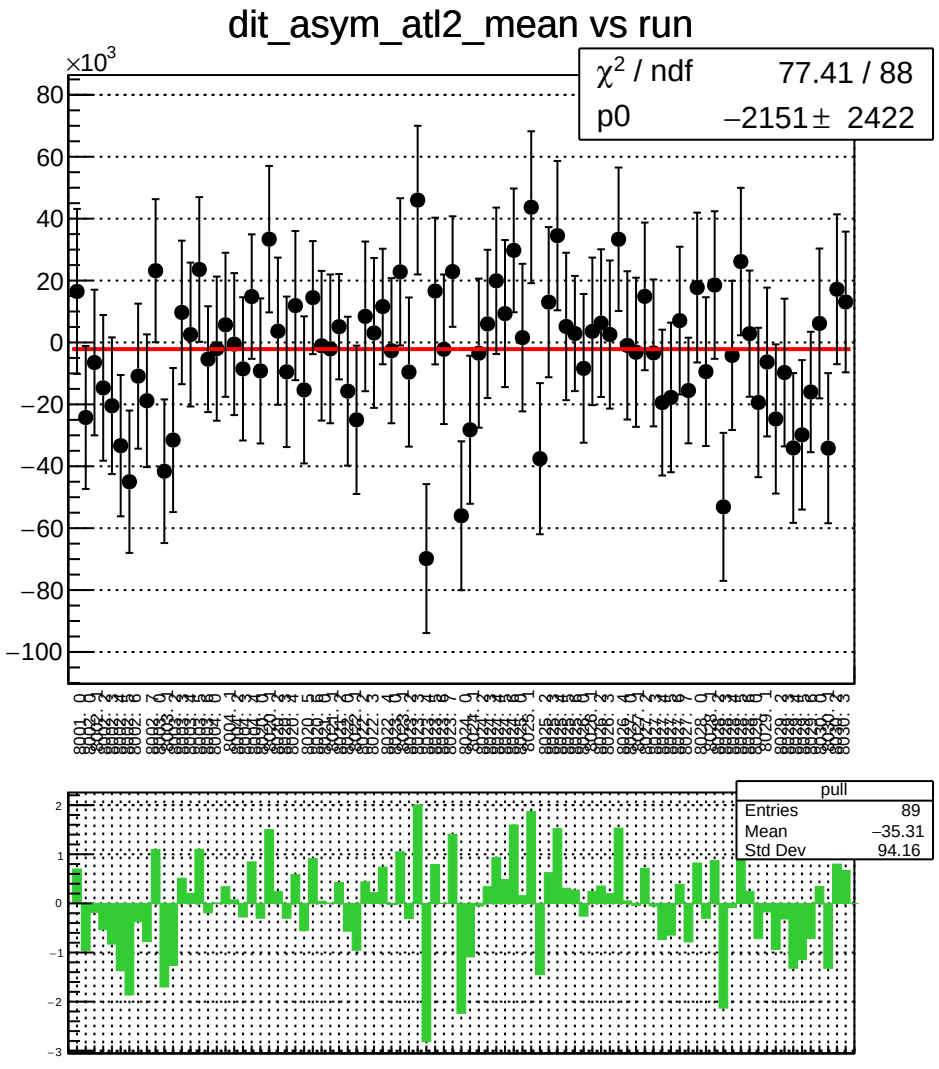

pull1D
Entries 89
Mean −0.008896
Std Dev 0.9388

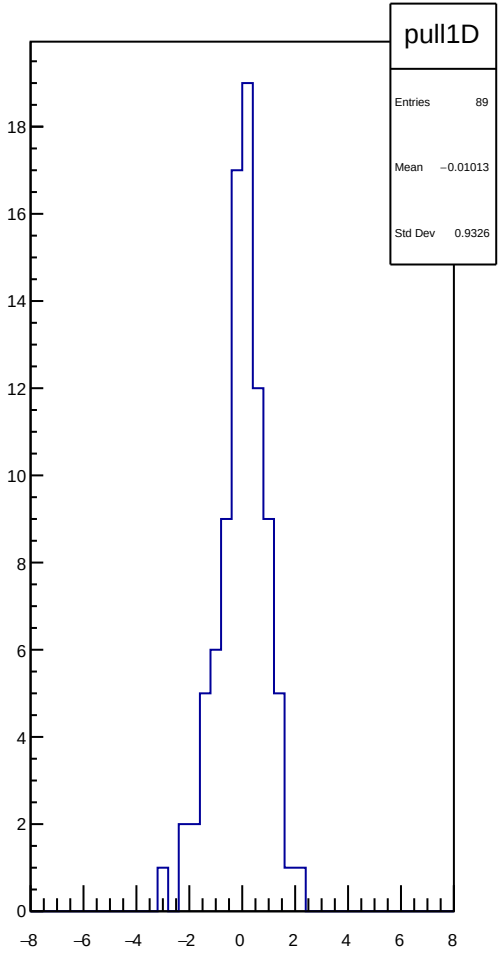

eigen_cor_asym_atl2_rms vs run
χ² / ndf 656.1 / 88
p0 2224 ± 1.689
2350
2300
2250
2200
2150
2100
2050
2000

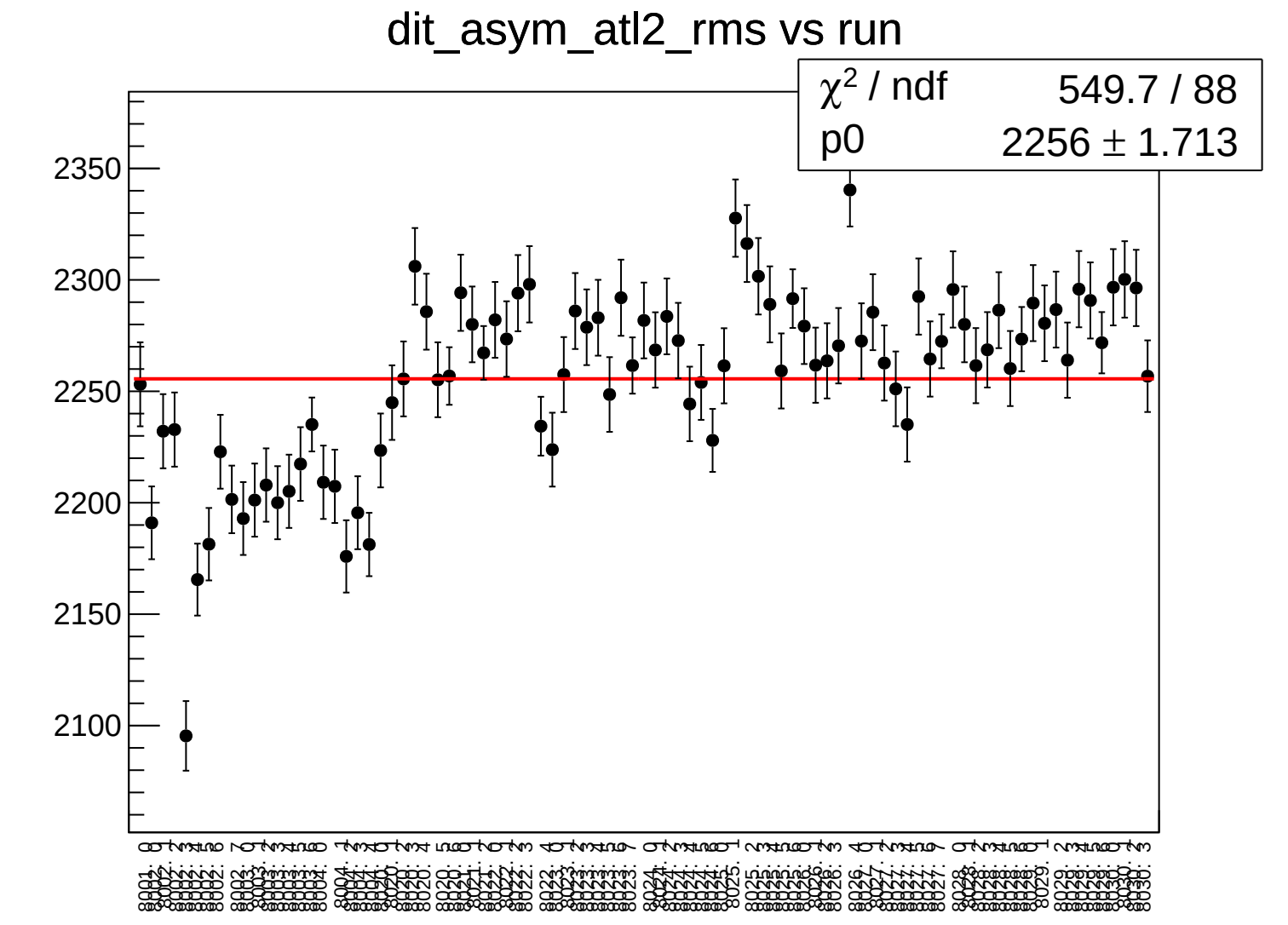

asym_atl2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 96.05 / 88
p0 1579 ± 9587
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean 154.5
Std Dev 0
2
1
0
−1
−2

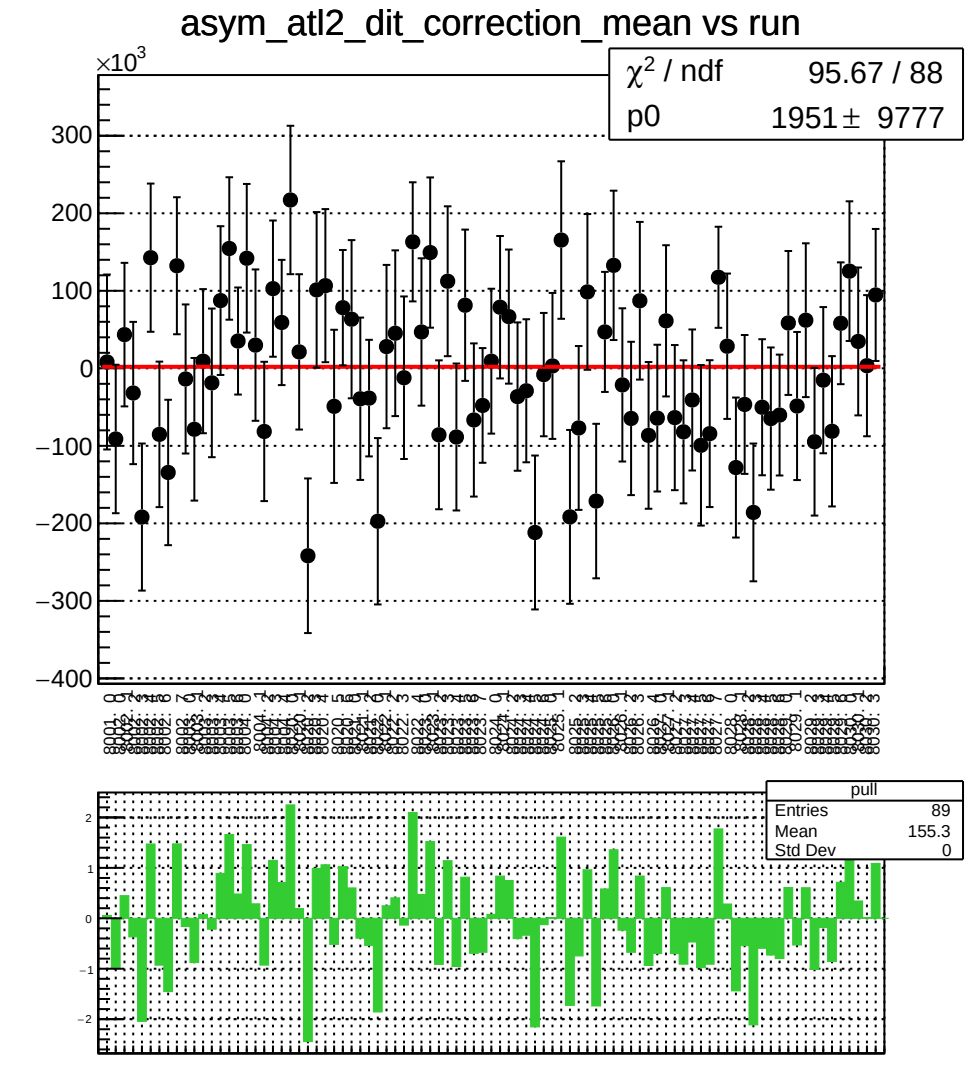

pull1D
Entries 89
Mean −0.02456
Std Dev 1.039
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

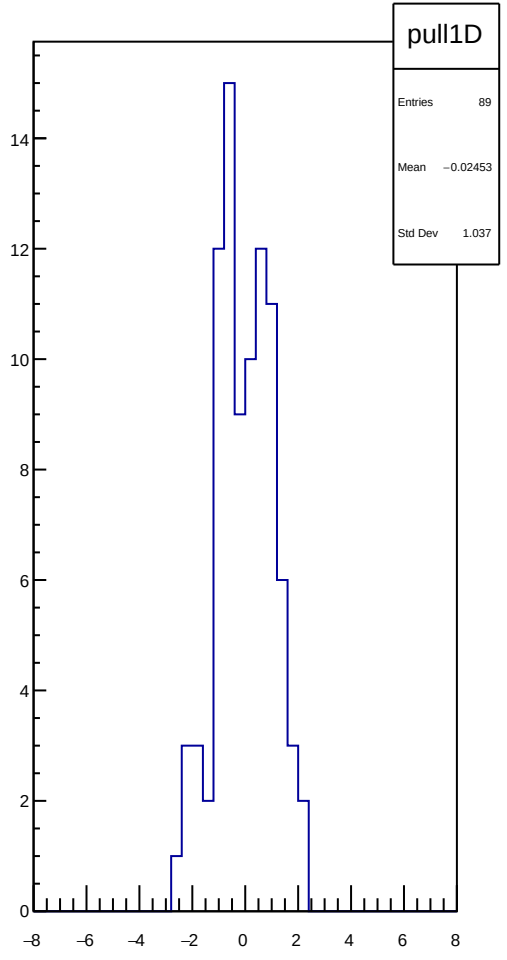

asym_atl2_eigen_cor_correction_rms vs run
χ² / ndf 3939 / 88
p0 8919 ± 6.779
10500
10000
9500
9000
8500
8000

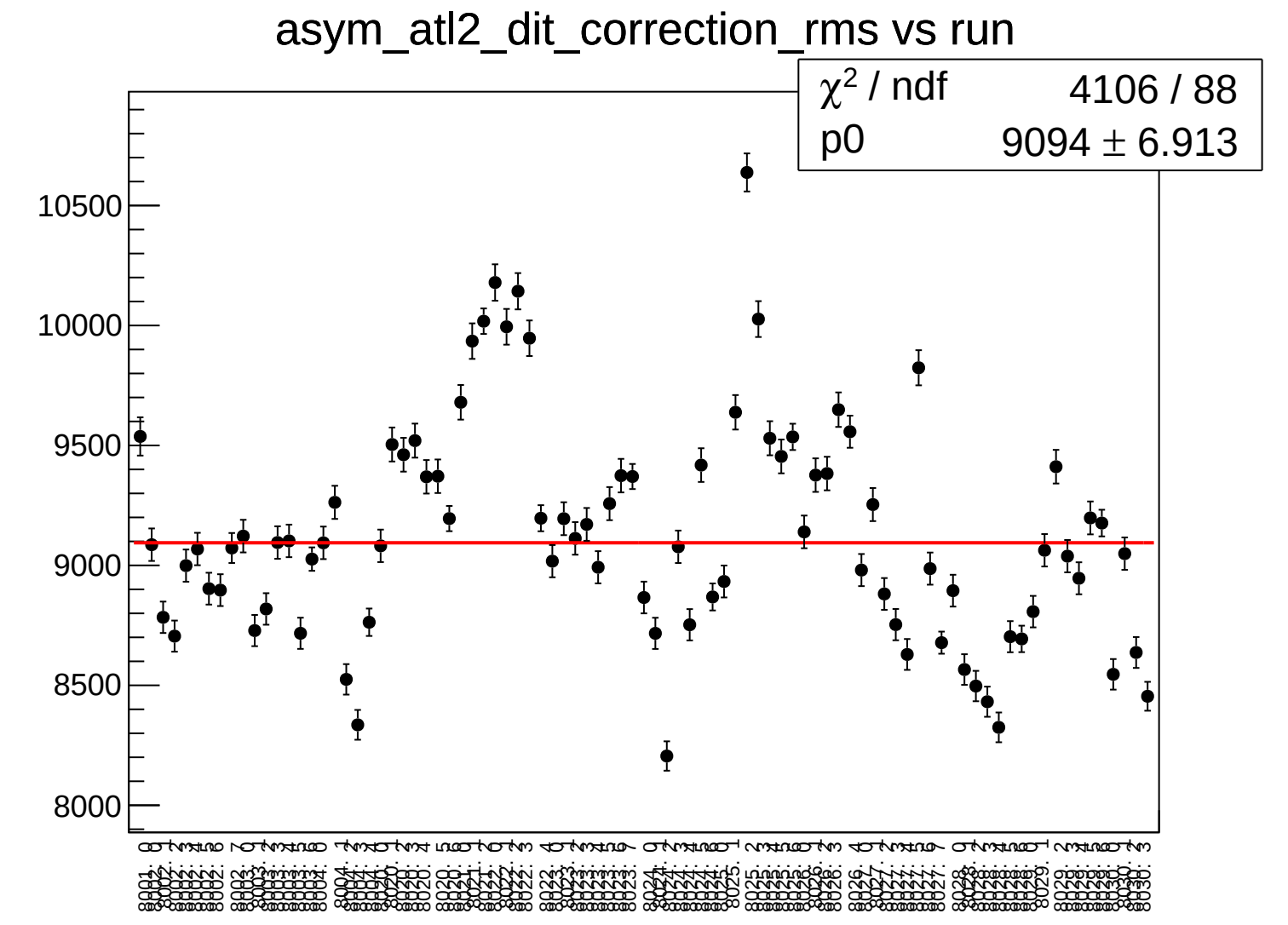

dit_asym_atl2_mean vs run
×10^3
χ^2 / ndf 77.41 / 88
p0 −2151 ± 2422
pull
Entries 89
Mean −35.31
Std Dev 94.16

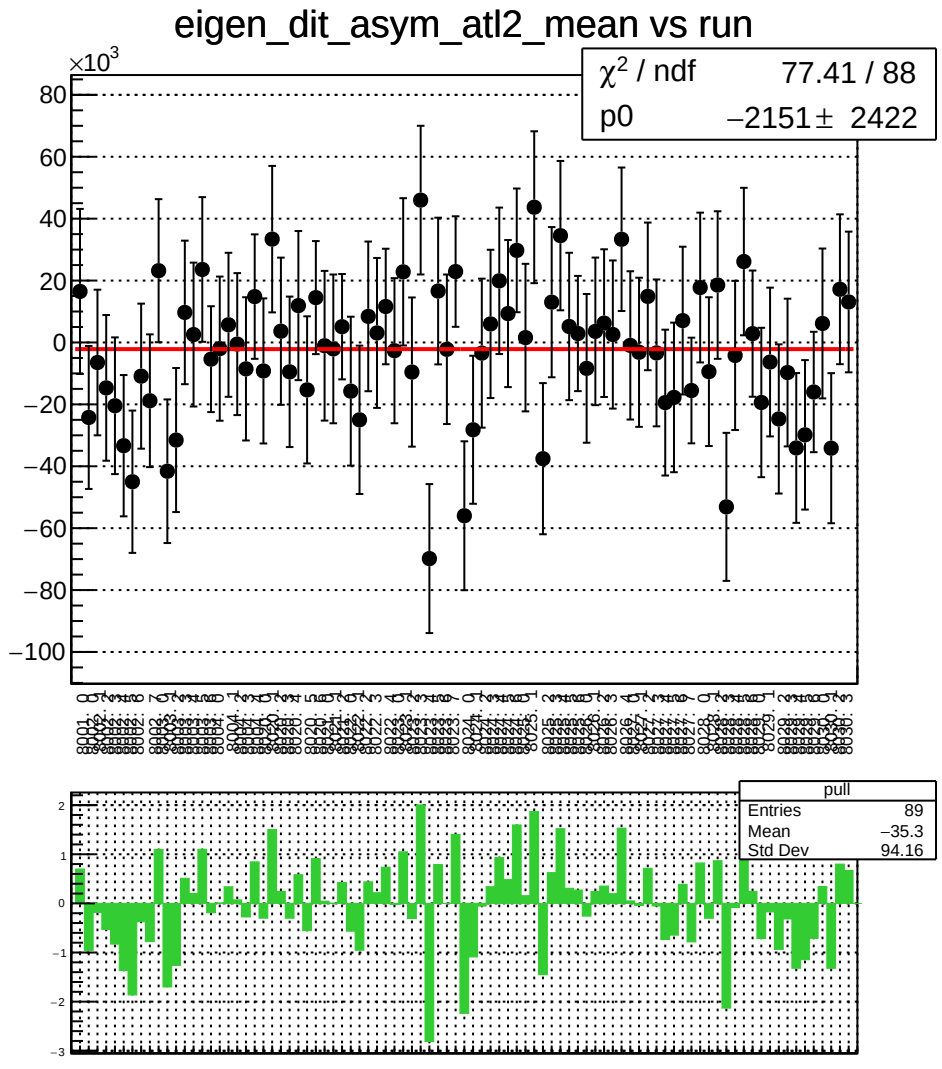

pull1D
Entries 89
Mean −0.01013
Std Dev 0.9326

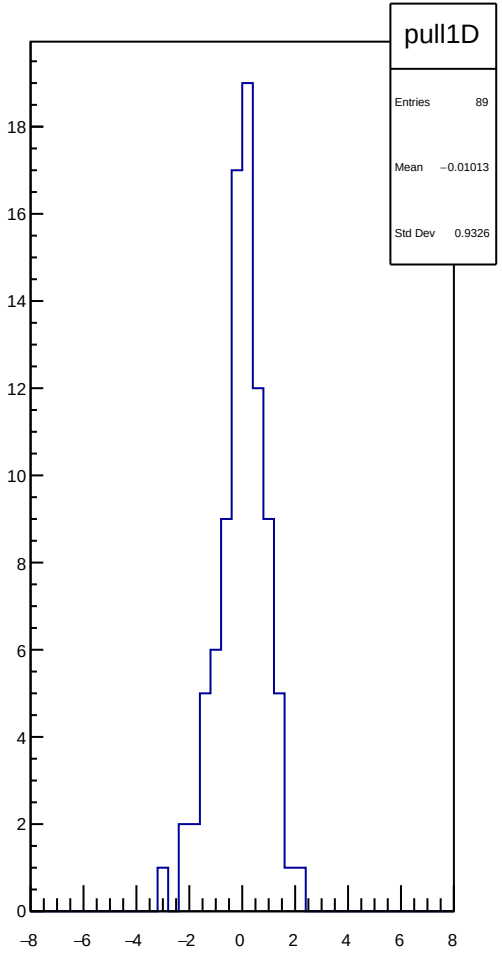

dit_asym_atl2_rms vs run
χ² / ndf 549.7 / 88
p0 2256 ± 1.713
2350
2300
2250
2200
2150
2100

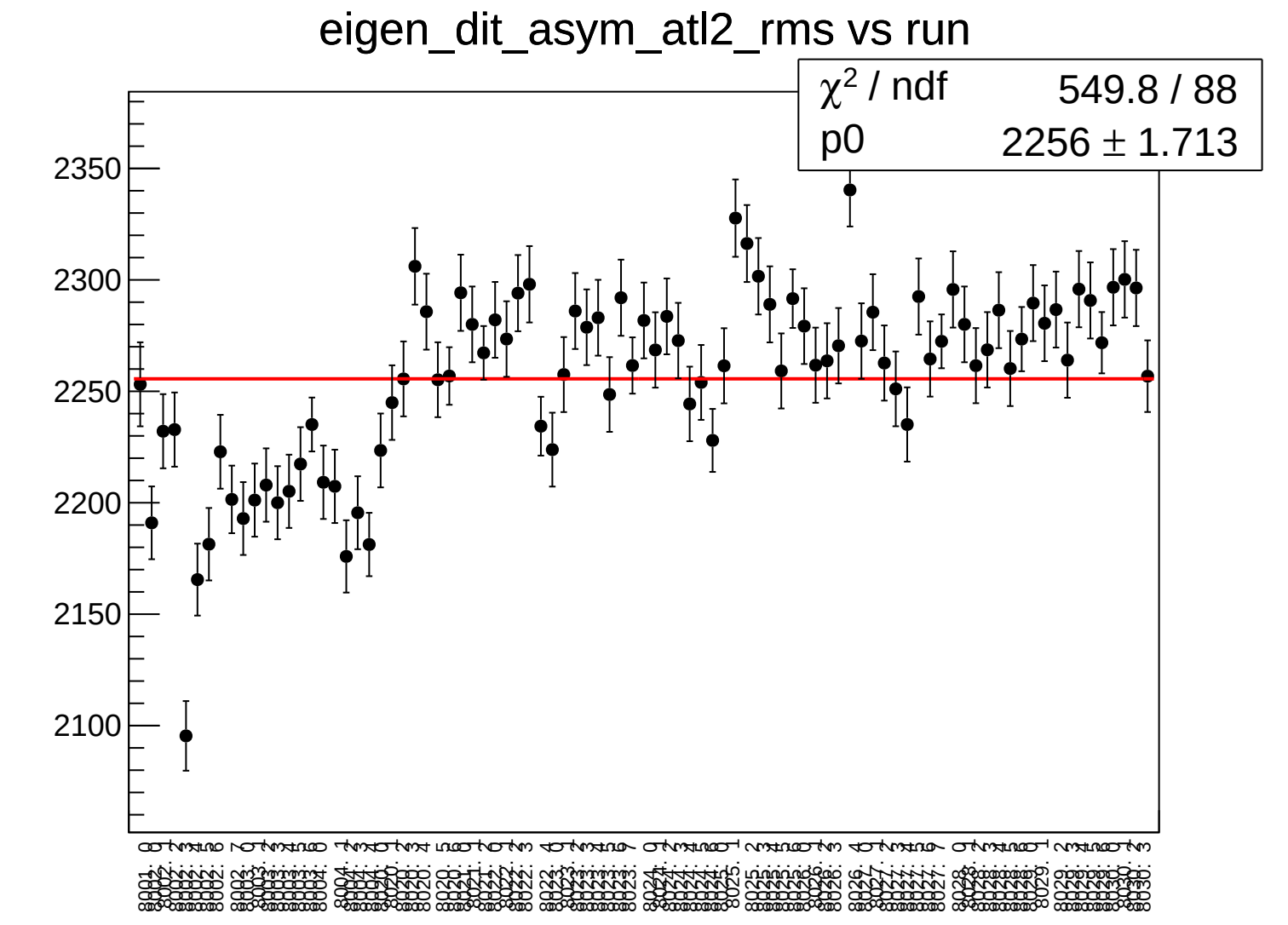

asym_atl2_dit_correction_mean vs run
×10^3
χ² / ndf 95.67 / 88
p0 1951 ± 9777
pull
Entries 89
Mean 155.3
Std Dev 0

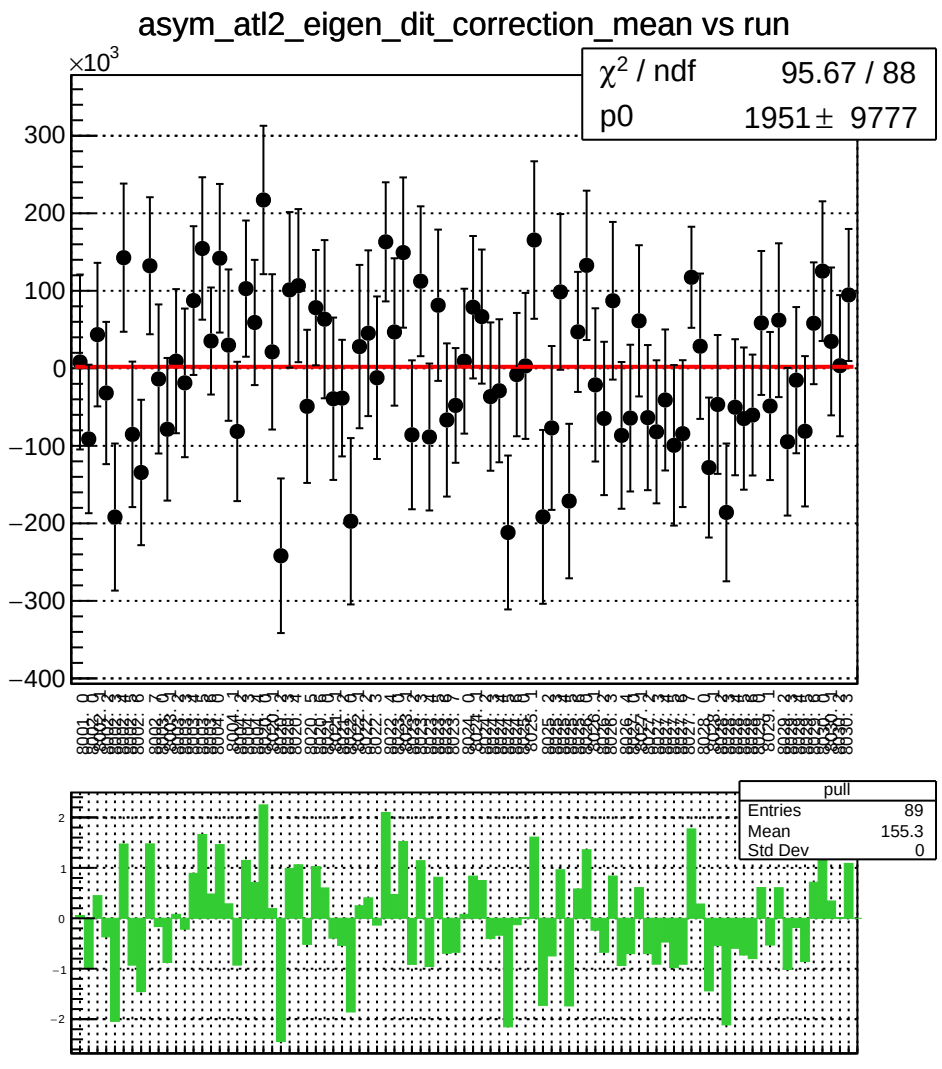

pull1D
Entries 89
Mean −0.02453
Std Dev 1.037

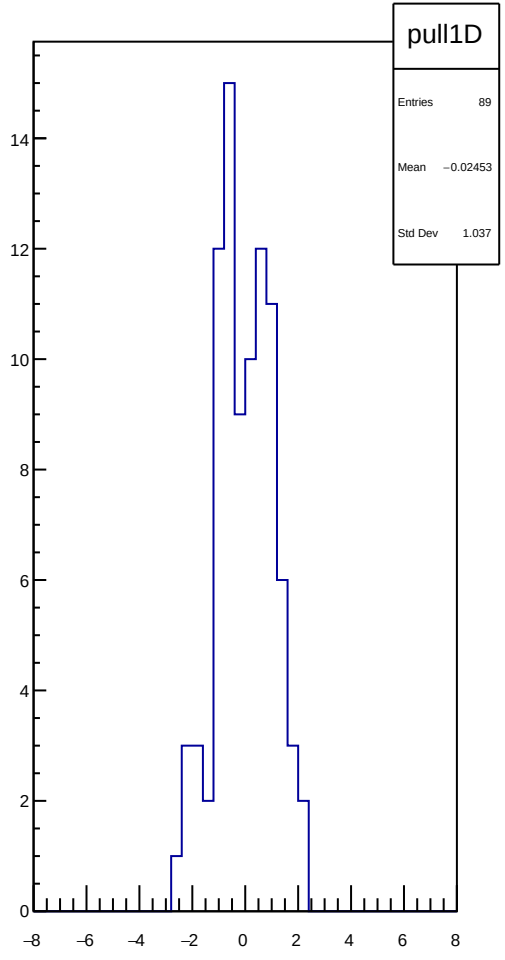

asym_atl2_dit_correction_rms vs run
χ² / ndf 4106 / 88
p0 9094 ± 6.913
10500
10000
9500
9000
8500
8000

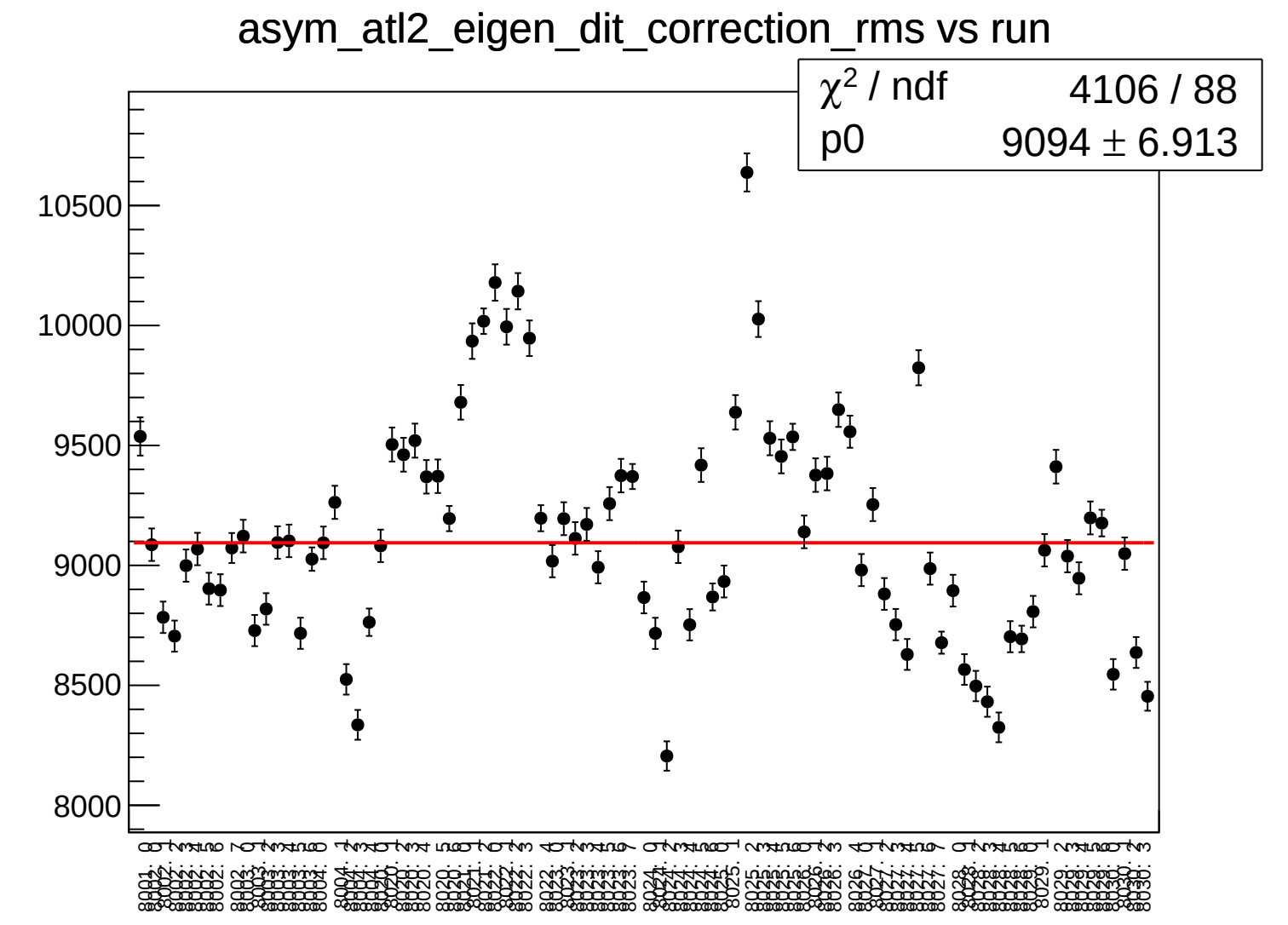

eigen_dit_asym_atl2_mean vs run
×10^3
χ² / ndf 77.41 / 88
p0 −2151 ± 2422
pull
Entries 89
Mean −35.3
Std Dev 94.16

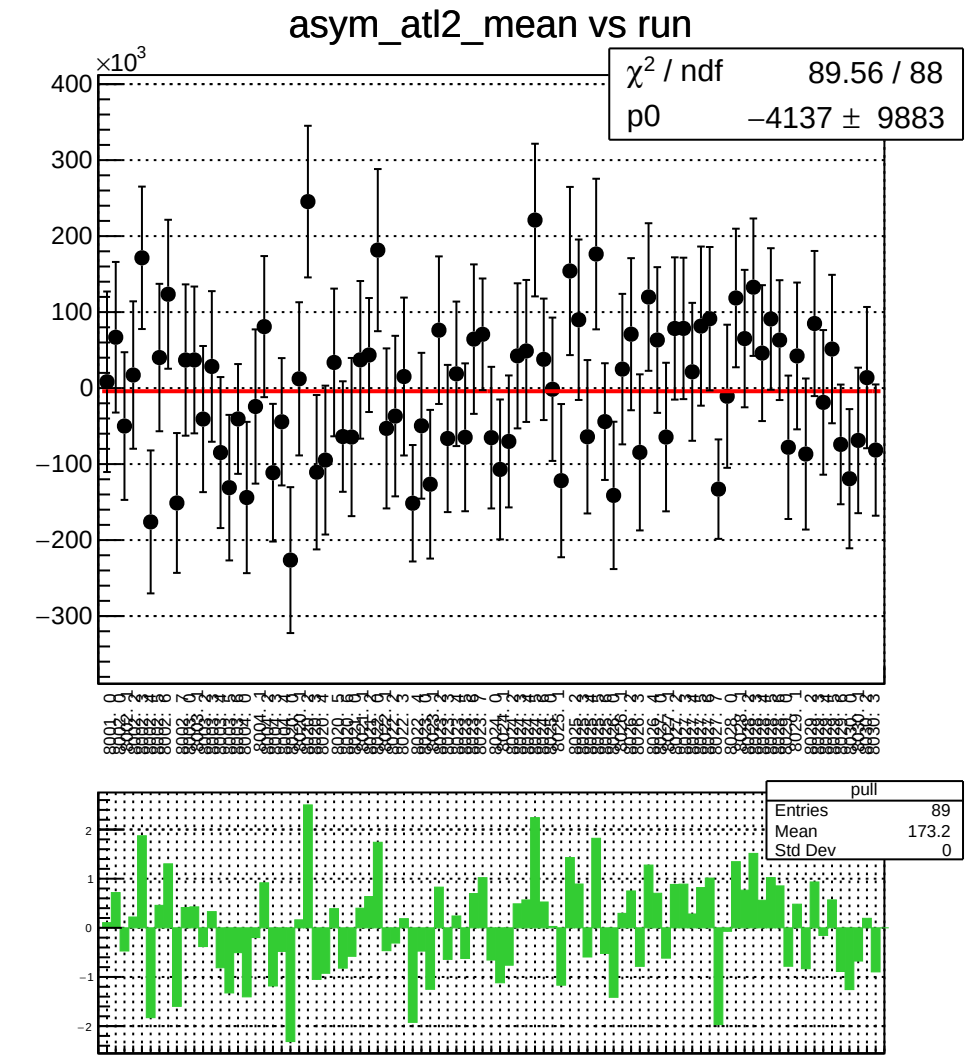

pull1D
Entries 89
Mean −0.01013
Std Dev 0.9326

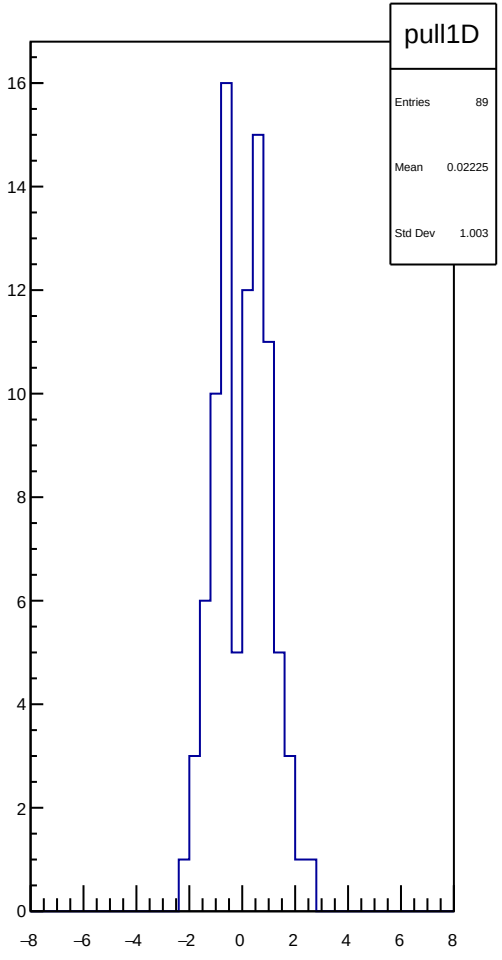

eigen_dit_asym_atl2_rms vs run
χ^2 / ndf 549.8 / 88
p0 2256 ± 1.713
2350
2300
2250
2200
2150
2100

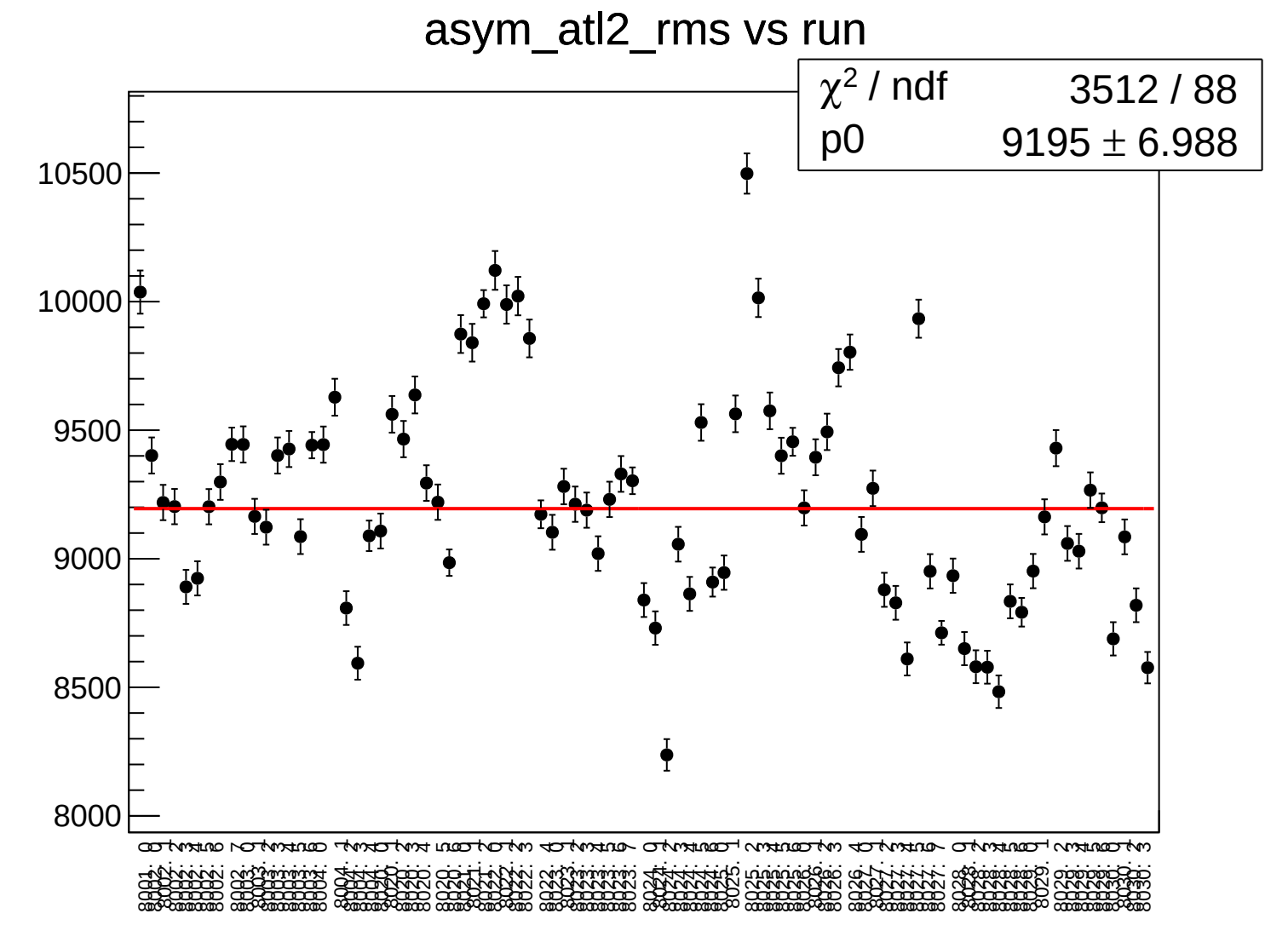

asym_atl2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 95.67 / 88
p0 1951 ± 9777
300
200
100
0
−100
−200
−300
−400
pull
Entries 89
Mean 155.3
Std Dev 0
2
1
0
−1
−2

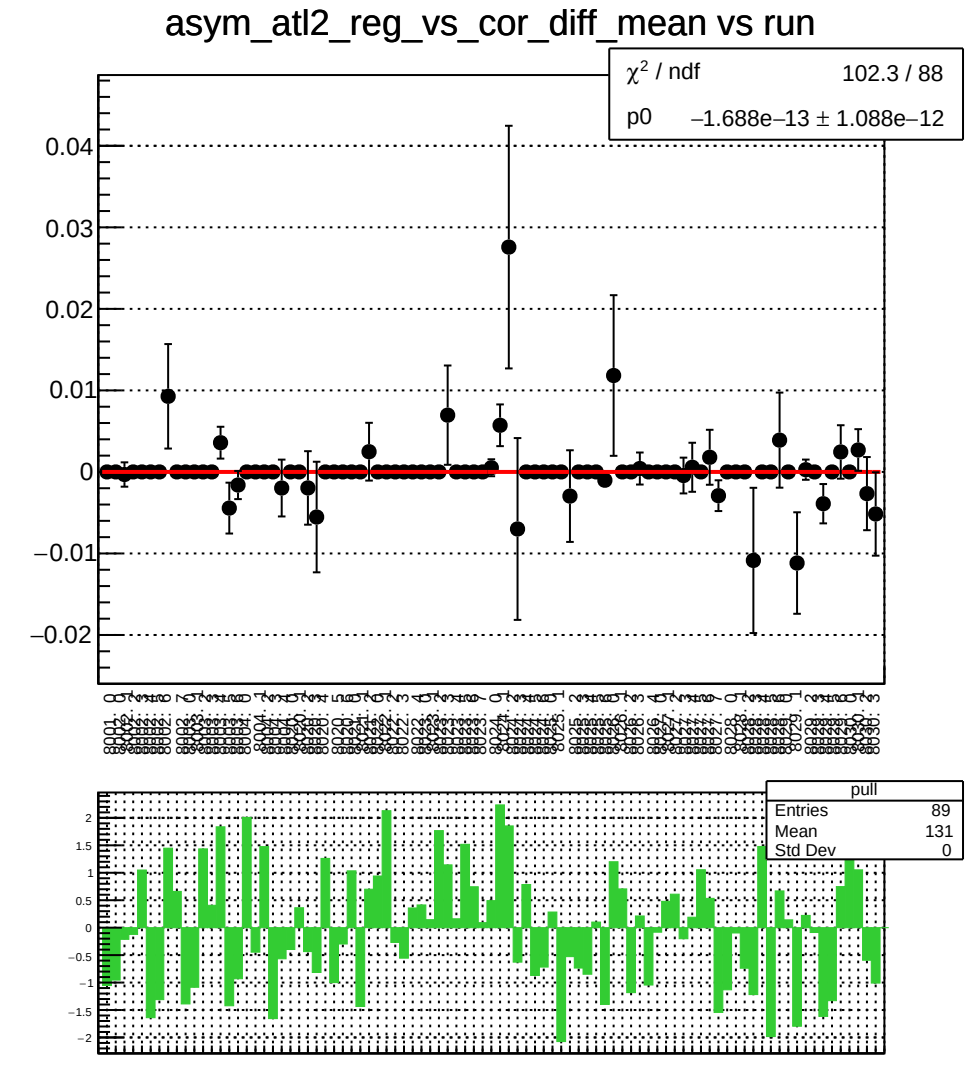

pull1D
Entries 89
Mean −0.02453
Std Dev 1.037
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

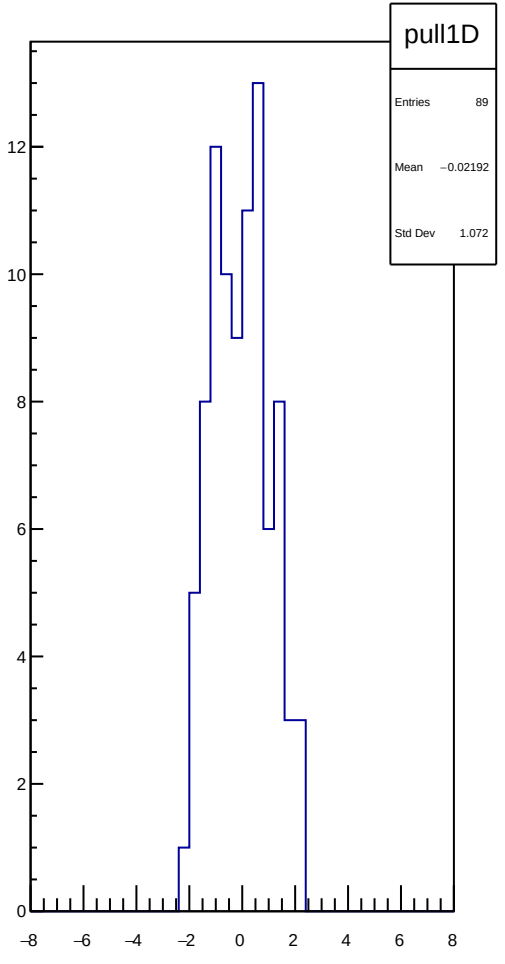

asym_atl2_eigen_dit_correction_rms vs run
χ² / ndf 4106 / 88
p0 9094 ± 6.913
10500
10000
9500
9000
8500
8000

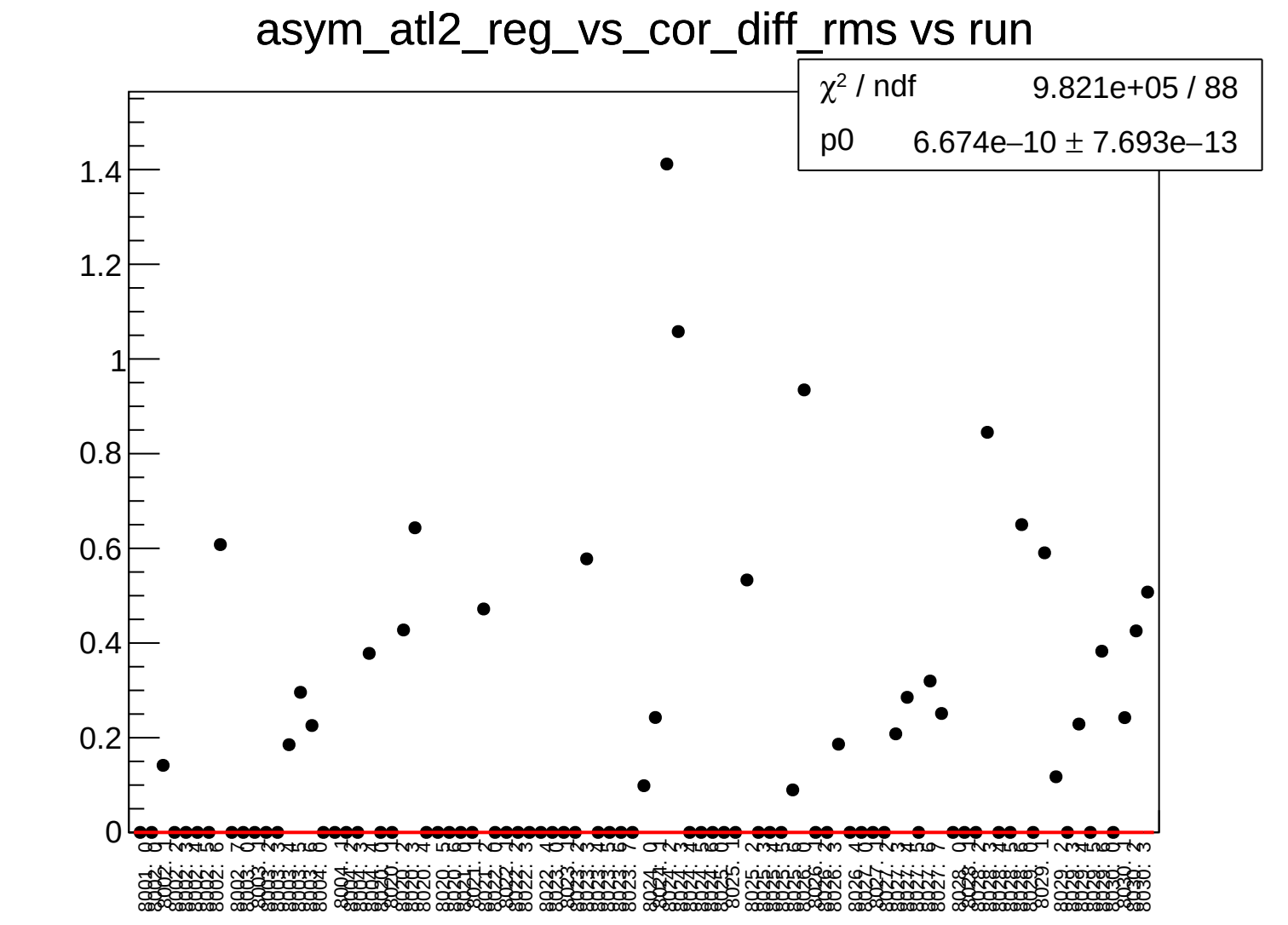

asym_atl2_mean vs run
×10^3
400
300
200
100
0
−100
−200
−300
χ² / ndf 89.56 / 88
p0 −4137 ± 9883
pull
Entries 89
Mean 173.2
Std Dev 0
2
1
0
−1
−2

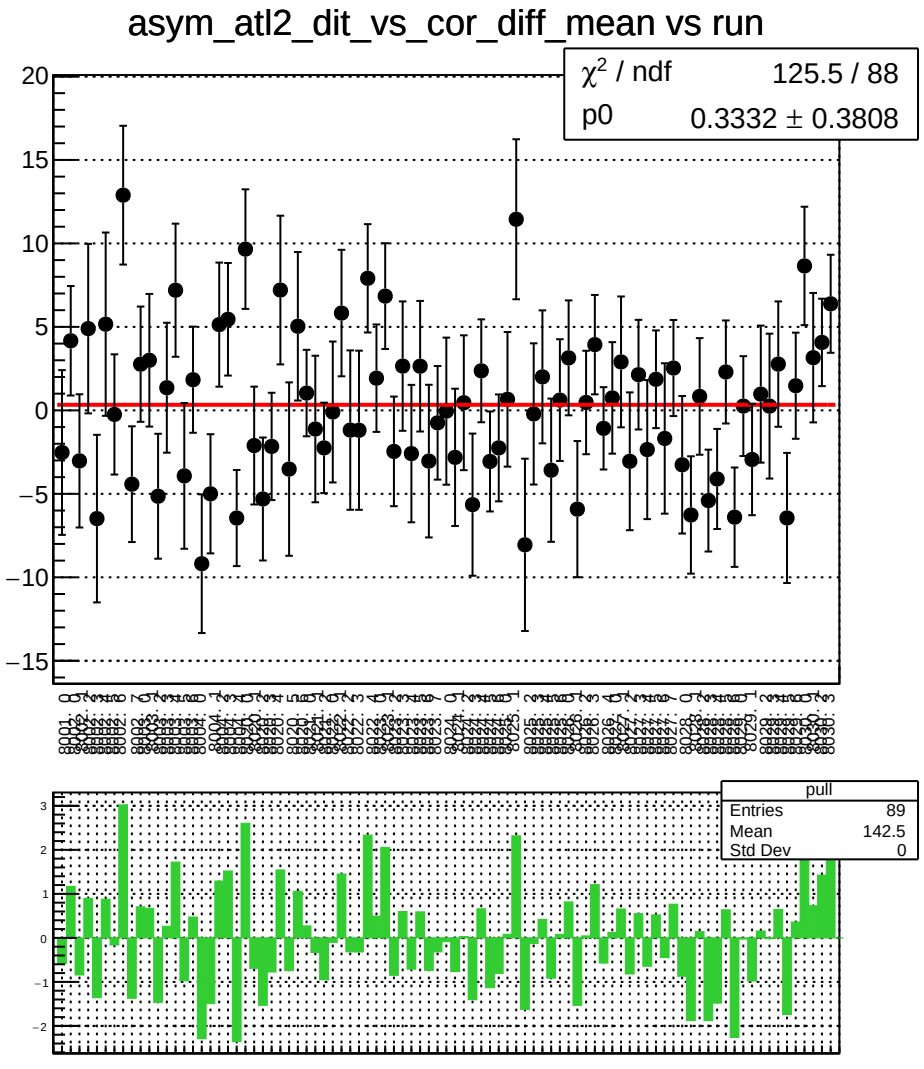

pull1D
Entries 89
Mean 0.02225
Std Dev 1.003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

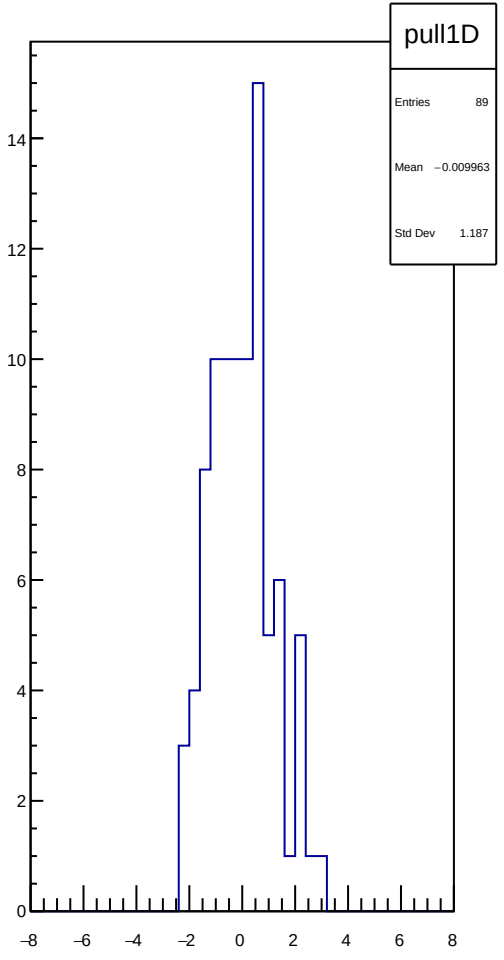

asym_atl2_rms vs run
χ² / ndf 3512 / 88
p0 9195 ± 6.988
10500
10000
9500
9000
8500
8000

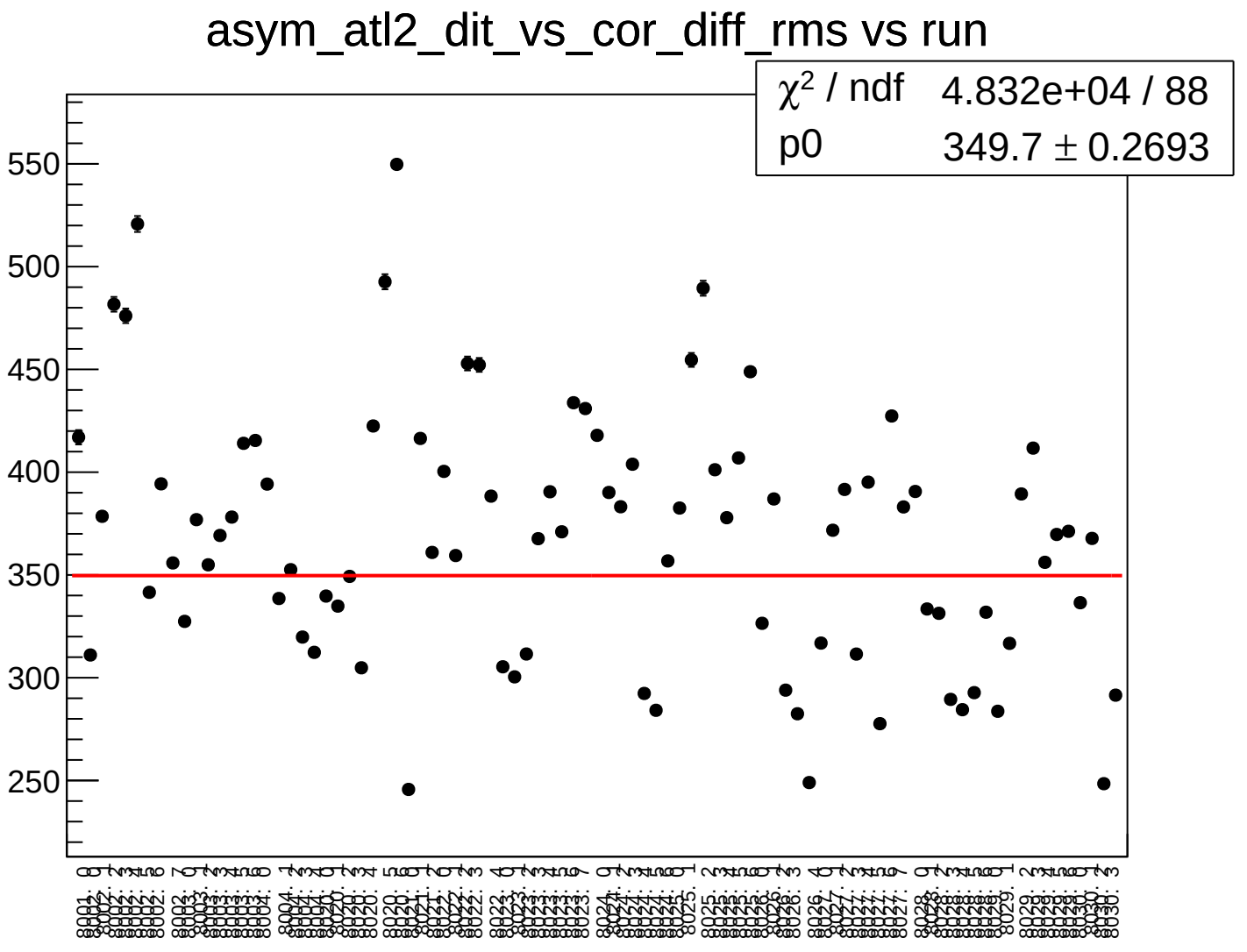

asym_atl2_reg_vs_cor_diff_mean vs run
χ² / ndf 102.3 / 88
p0 −1.688e−13 ± 1.088e−12
0.04
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 89
Mean 131
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

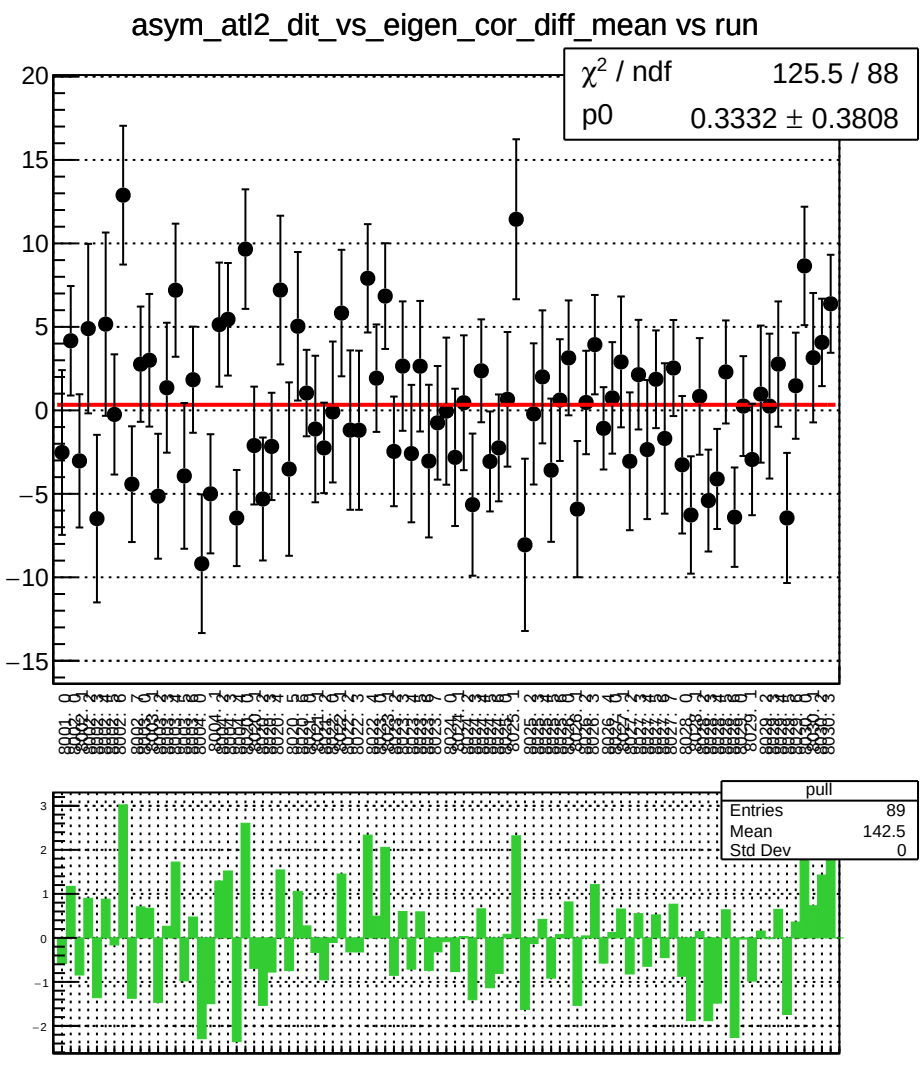

pull1D
Entries 89
Mean −0.02192
Std Dev 1.072
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

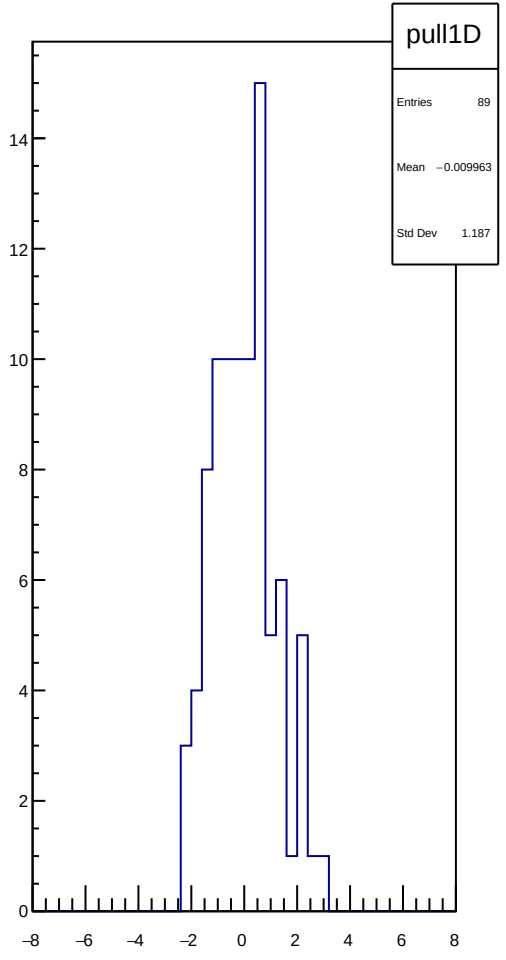

asym_atl2_reg_vs_cor_diff_rms vs run
χ² / ndf 9.821e+05 / 88
p0 6.674e−10 ± 7.693e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

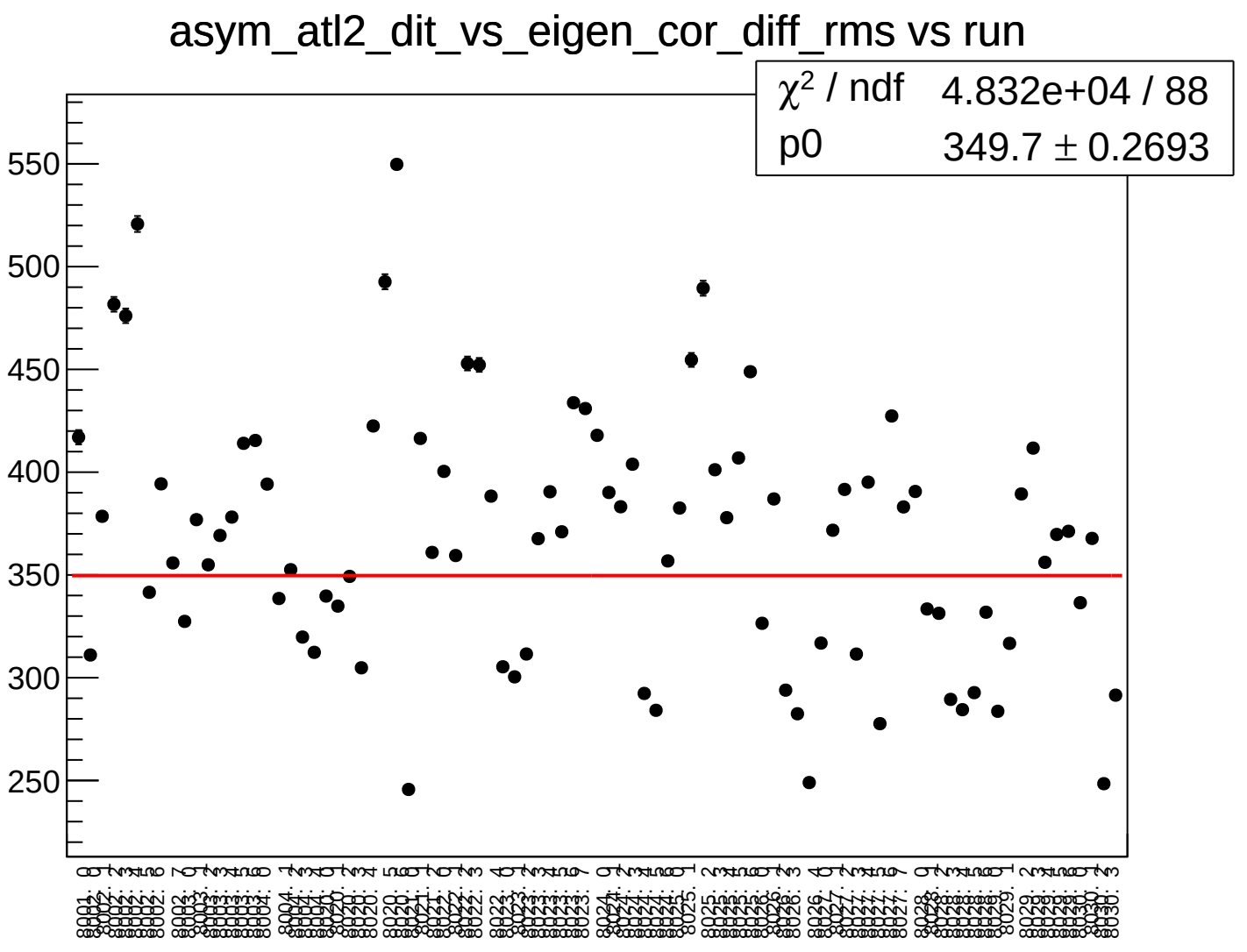

asym_atl2_dit_vs_cor_diff_mean vs run
χ² / ndf 125.5 / 88
p0 0.3332 ± 0.3808
pull
Entries 89
Mean 142.5
Std Dev 0

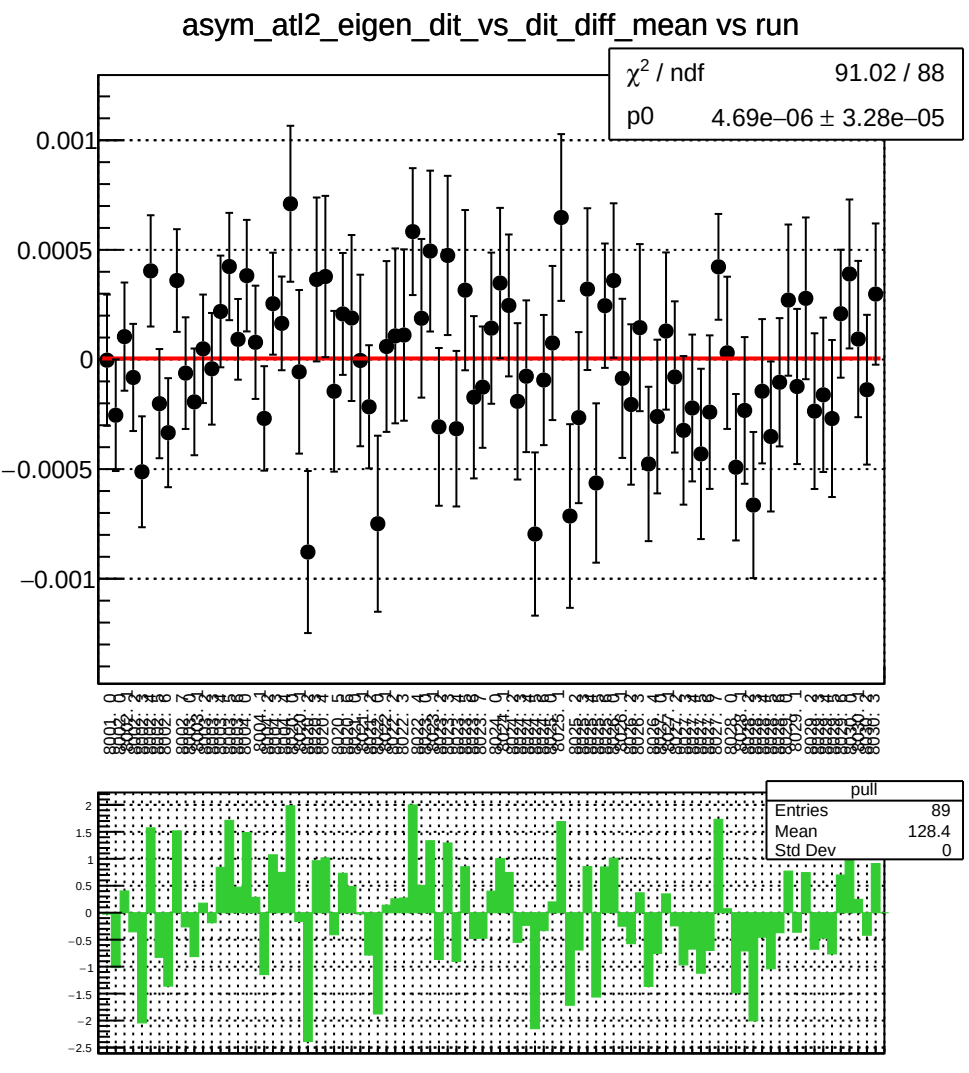

pull1D
Entries 89
Mean −0.009963
Std Dev 1.187

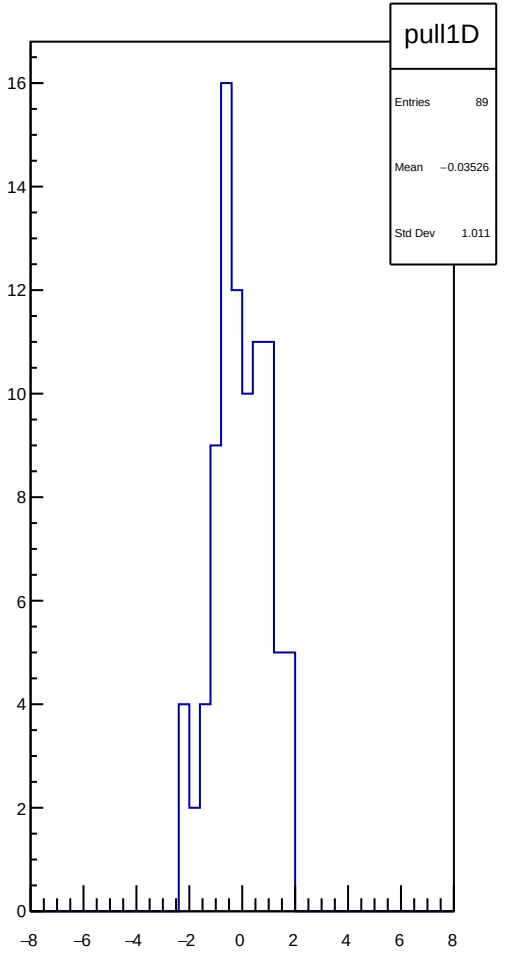

asym_atl2_dit_vs_cor_diff_rms vs run
χ² / ndf 4.832e+04 / 88
p0 349.7 ± 0.2693
550
500
450
400
350
300
250

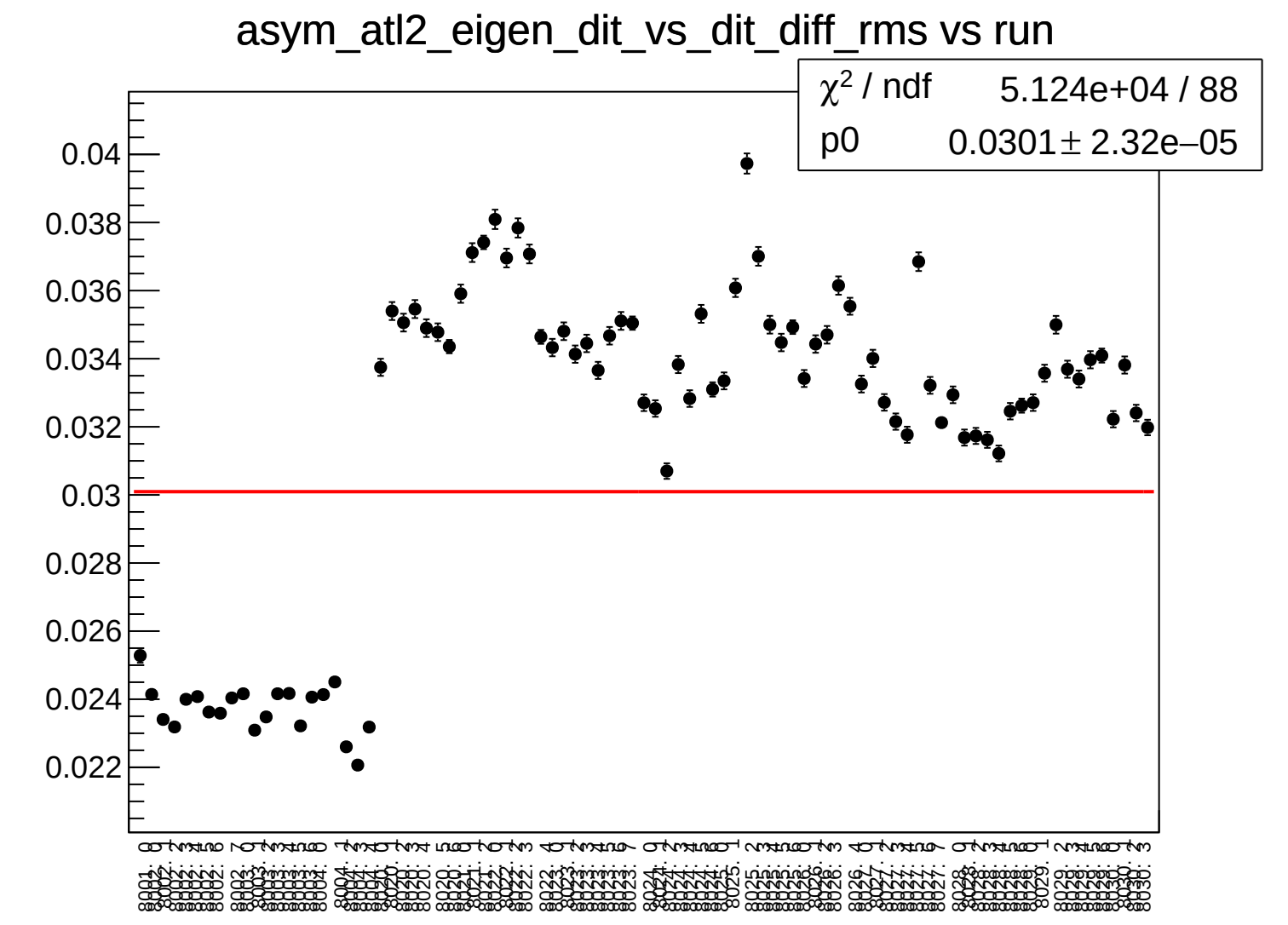

asym_atl2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 125.5 / 88
p0 0.3332 ± 0.3808
pull
Entries 89
Mean 142.5
Std Dev 0

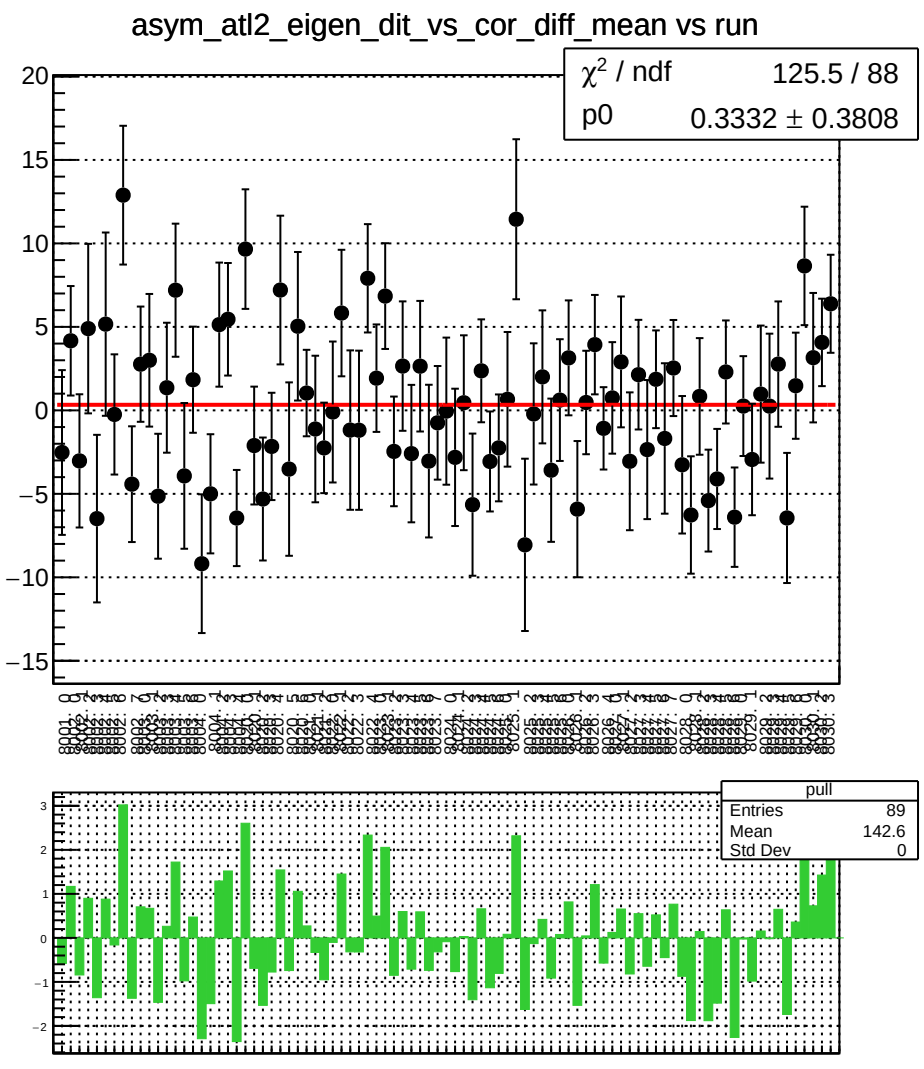

pull1D
Entries 89
Mean −0.009963
Std Dev 1.187

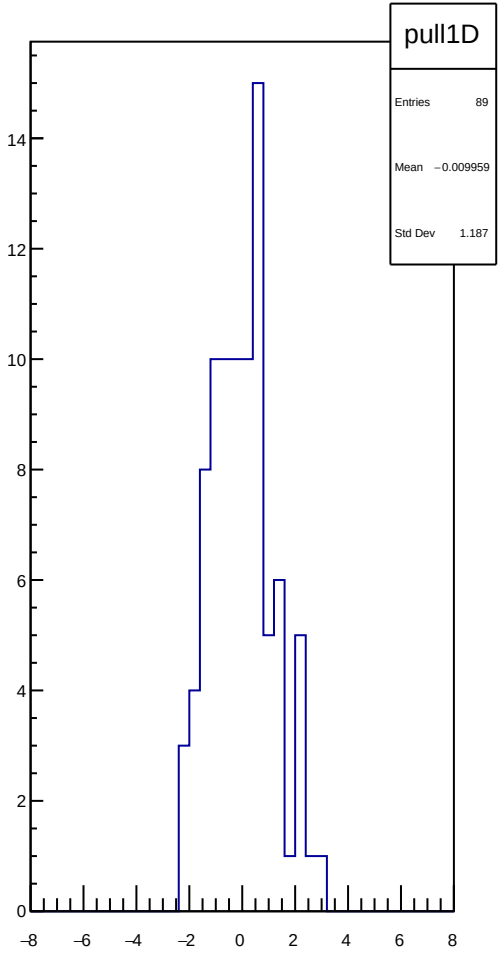

asym_atl2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.832e+04 / 88
p0 349.7 ± 0.2693
550
500
450
400
350
300
250

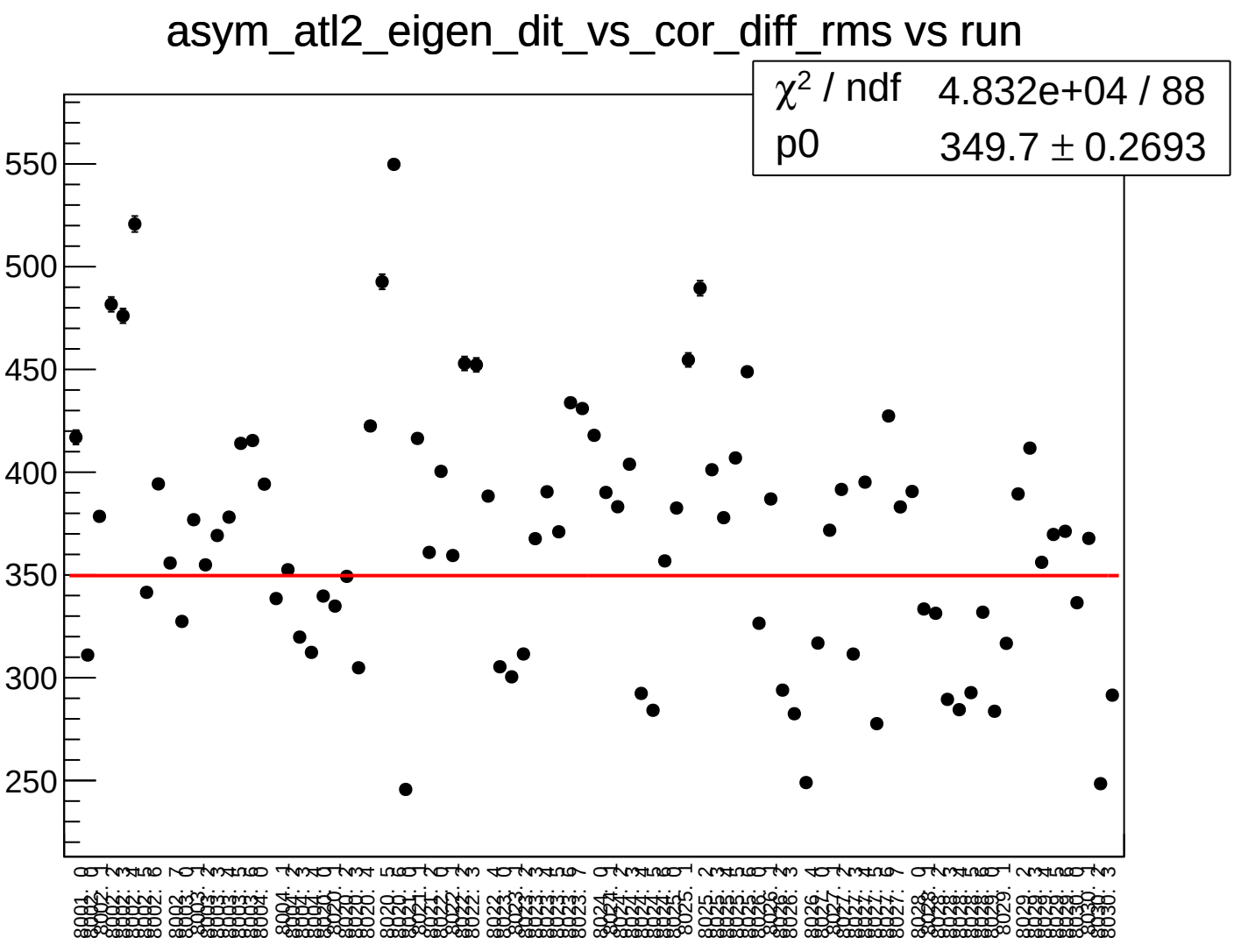

asym_atl2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 91.02 / 88
p0 4.69e−06 ± 3.28e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 89
Mean 128.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

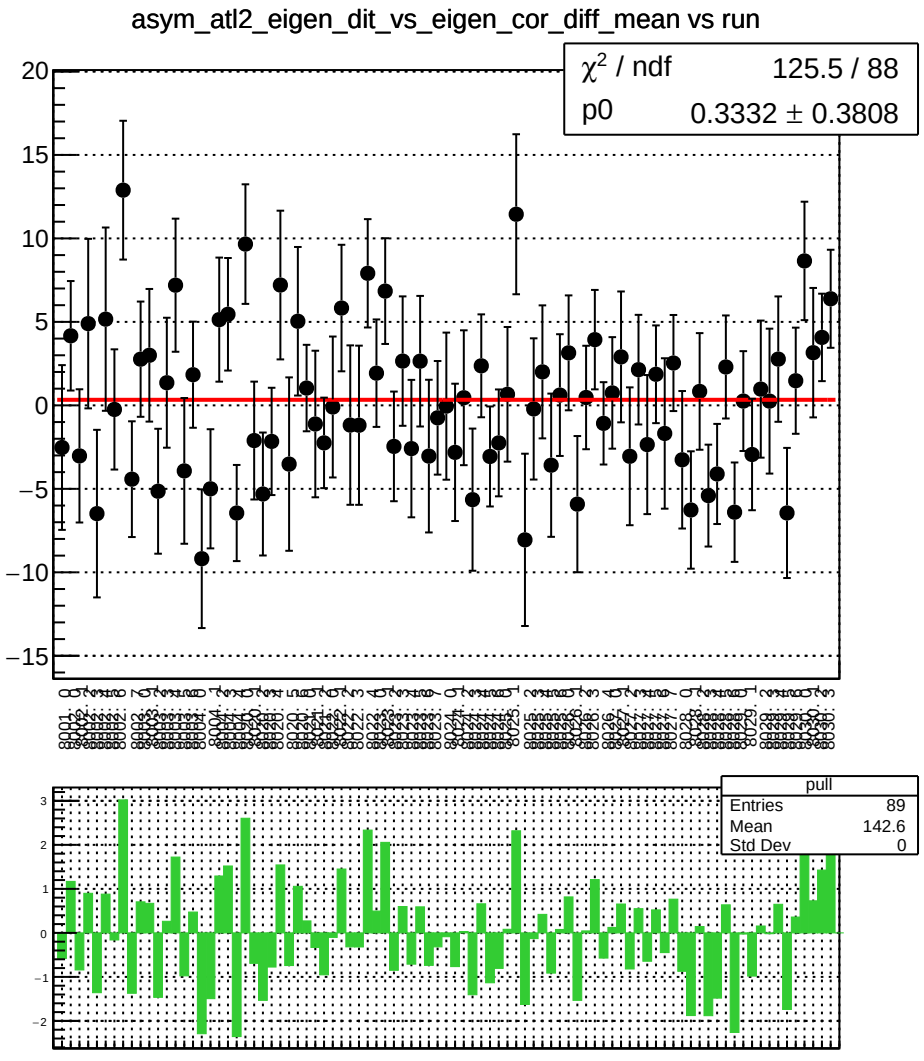

pull1D
Entries 89
Mean −0.03526
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

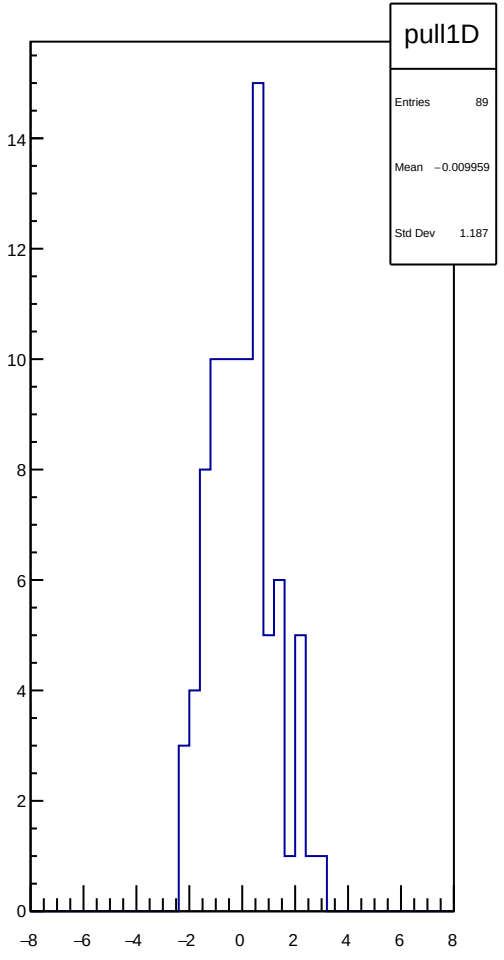

asym_atl2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.124e+04 / 88
p0 0.0301 ± 2.32e−05
0.04
0.038
0.036
0.034
0.032
0.03
0.028
0.026
0.024
0.022

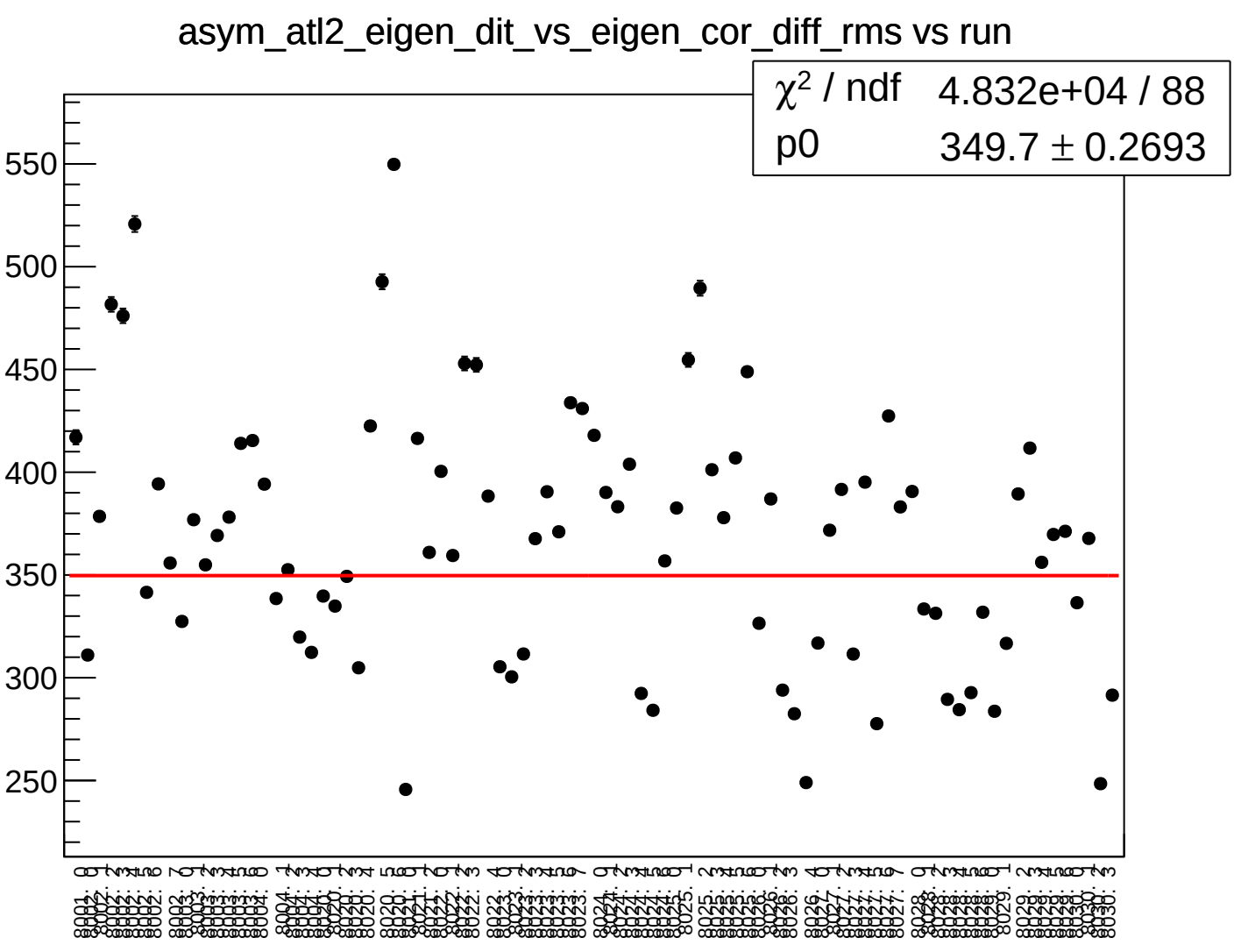

asym_atl2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 125.5 / 88
p0 0.3332 ± 0.3808
pull
Entries 89
Mean 142.6
Std Dev 0

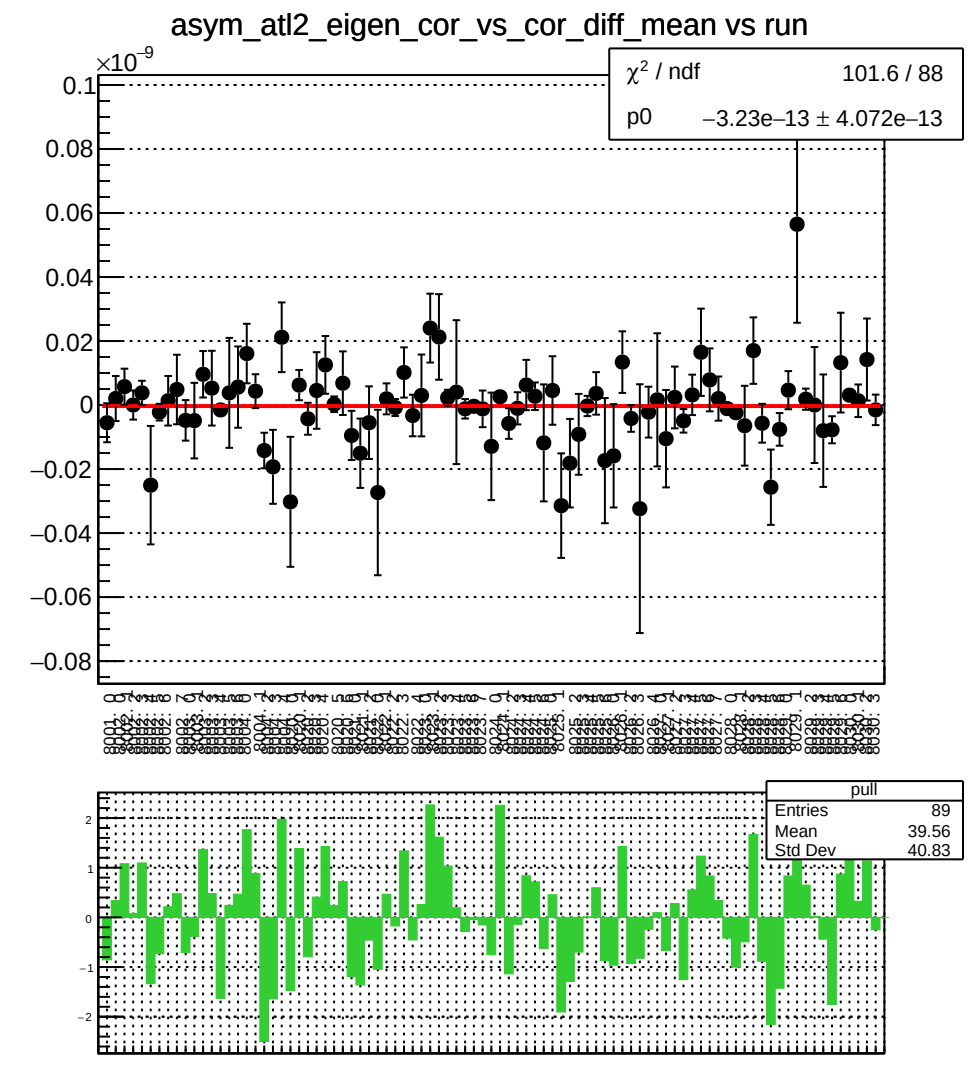

pull1D
Entries 89
Mean −0.009959
Std Dev 1.187

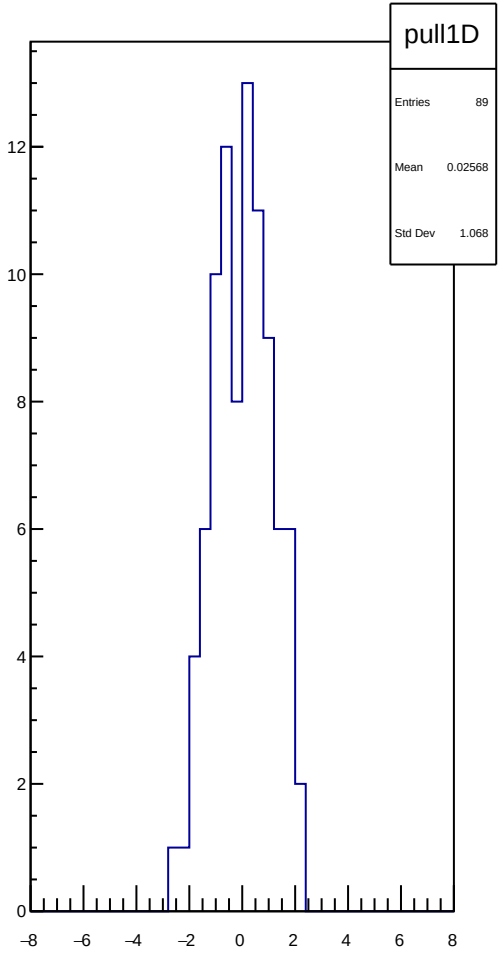

asym_atl2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.832e+04 / 88
p0 349.7 ± 0.2693
550
500
450
400
350
300
250

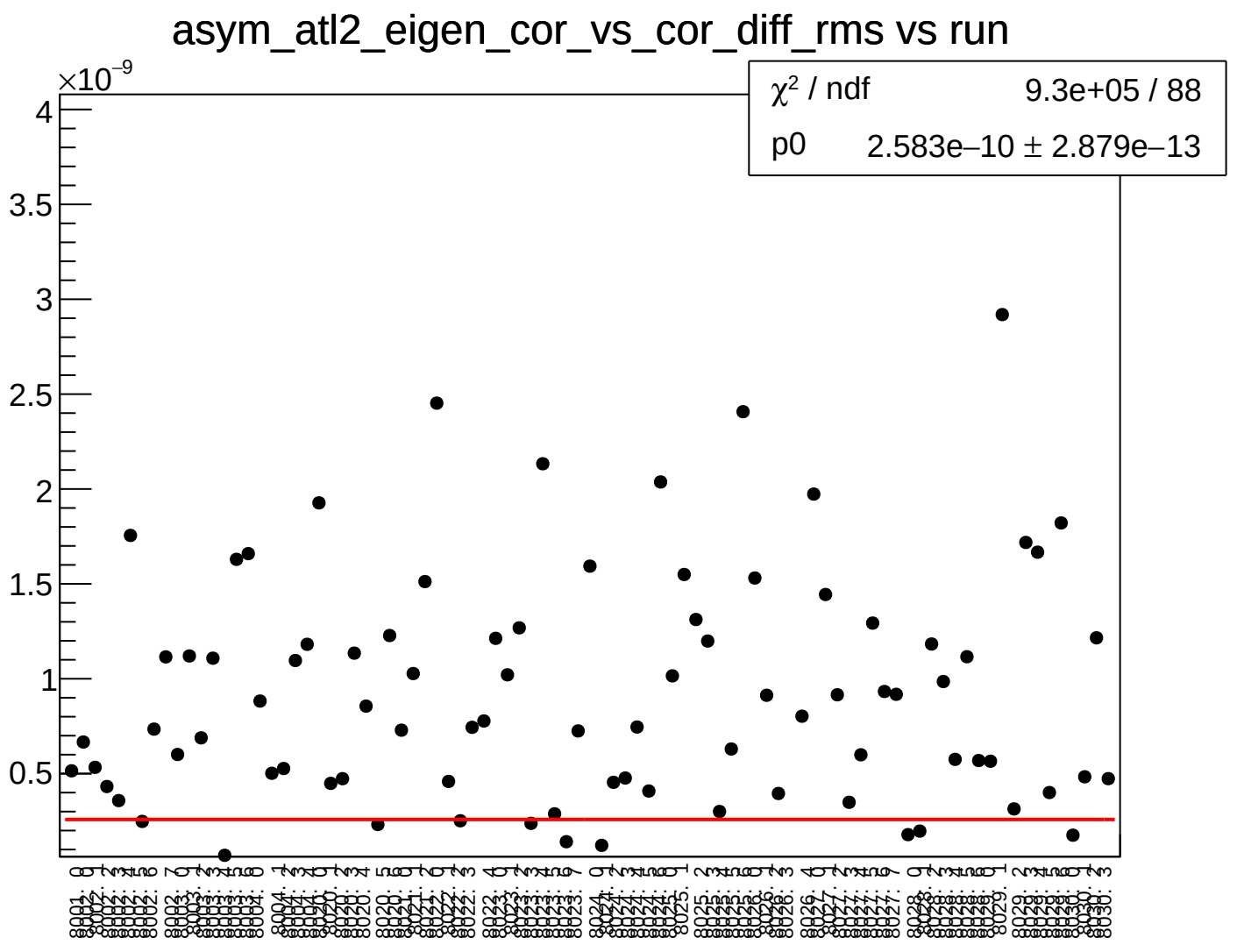

asym_atl2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 125.5 / 88
p0 0.3332 ± 0.3808
pull
Entries 89
Mean 142.6
Std Dev 0

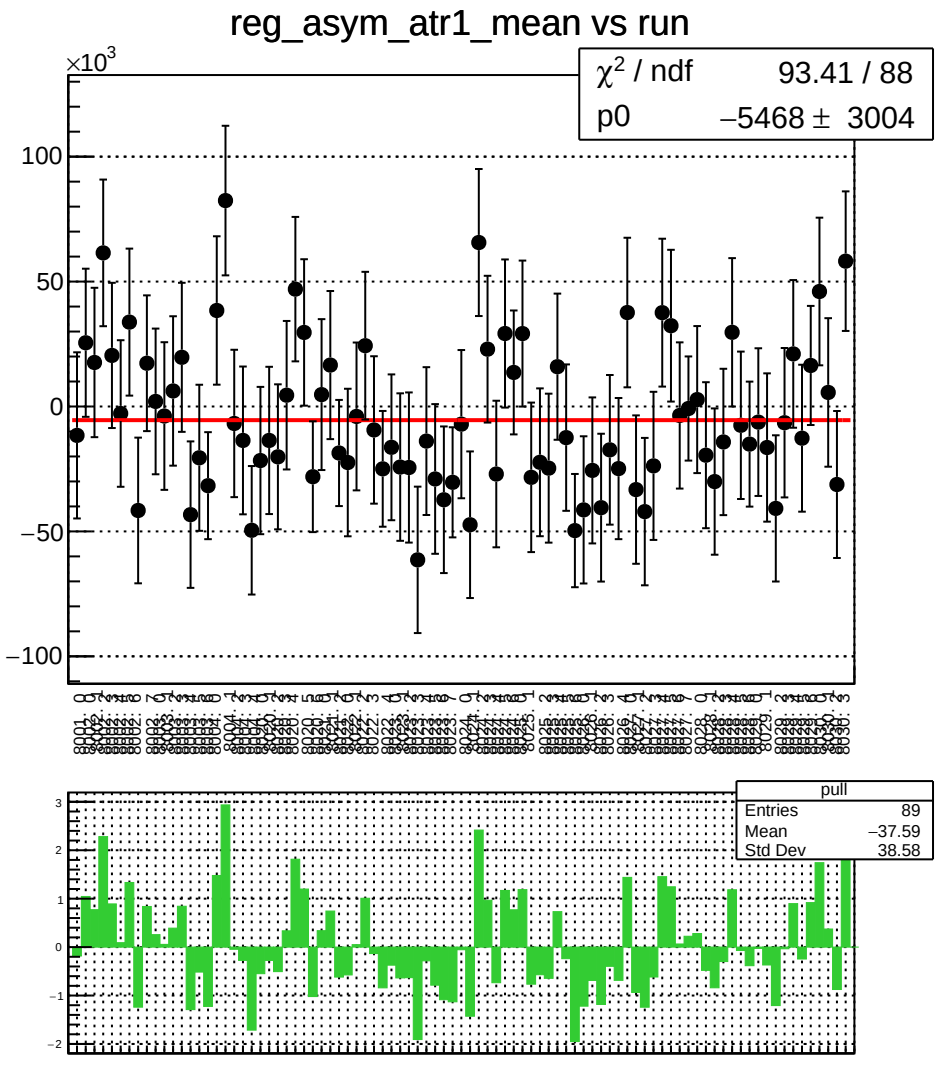

pull1D
Entries 89
Mean −0.009959
Std Dev 1.187

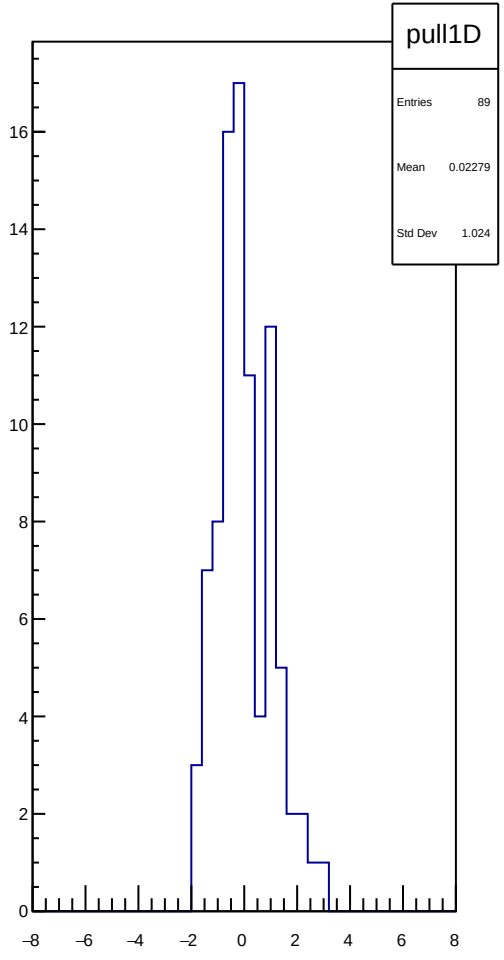

asym_atl2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.832e+04 / 88
p0 349.7 ± 0.2693
550
500
450
400
350
300
250

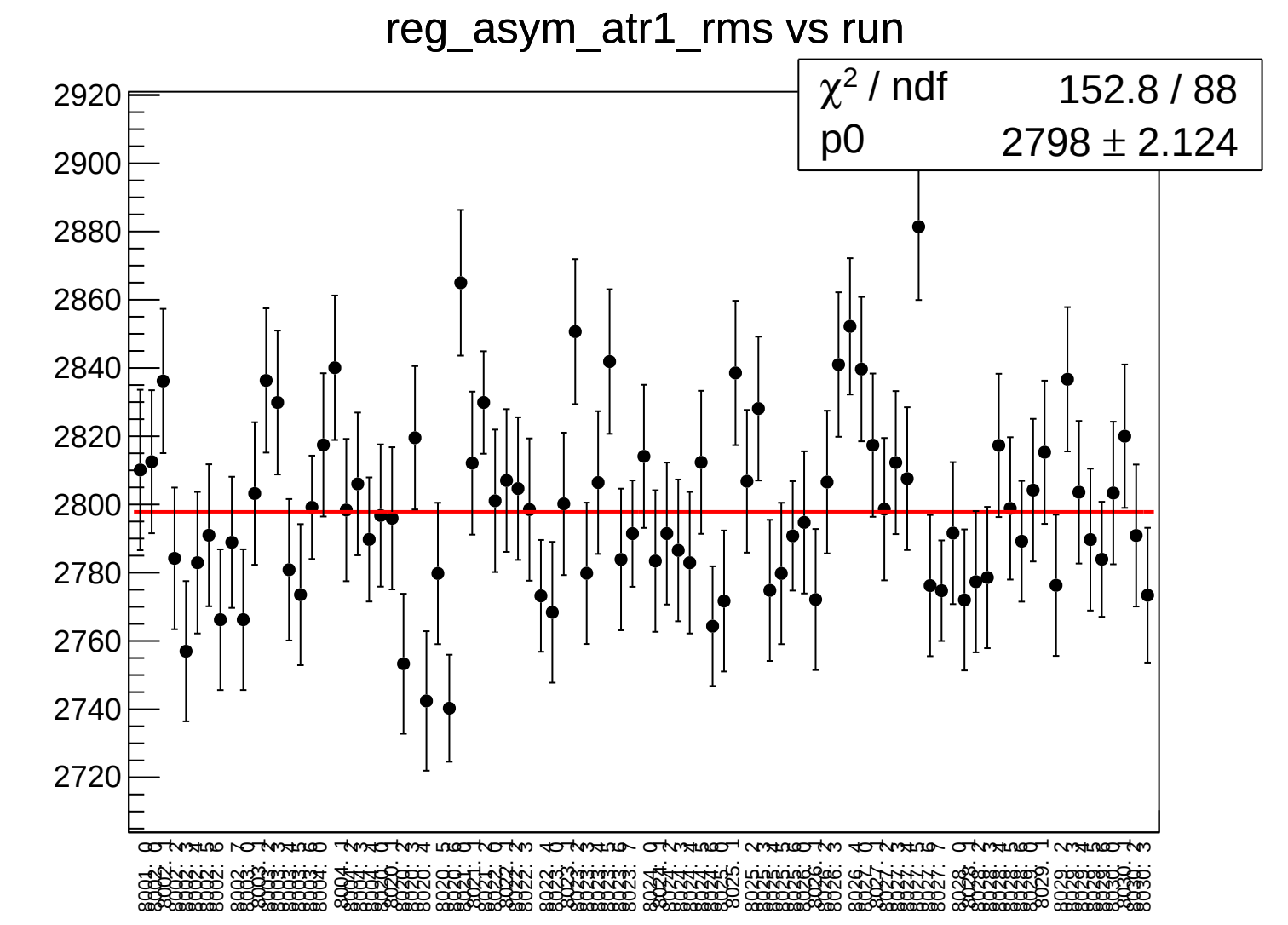

asym_atl2_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 101.6 / 88
p0 −3.23e−13 ± 4.072e−13
pull
Entries 89
Mean 39.56
Std Dev 40.83

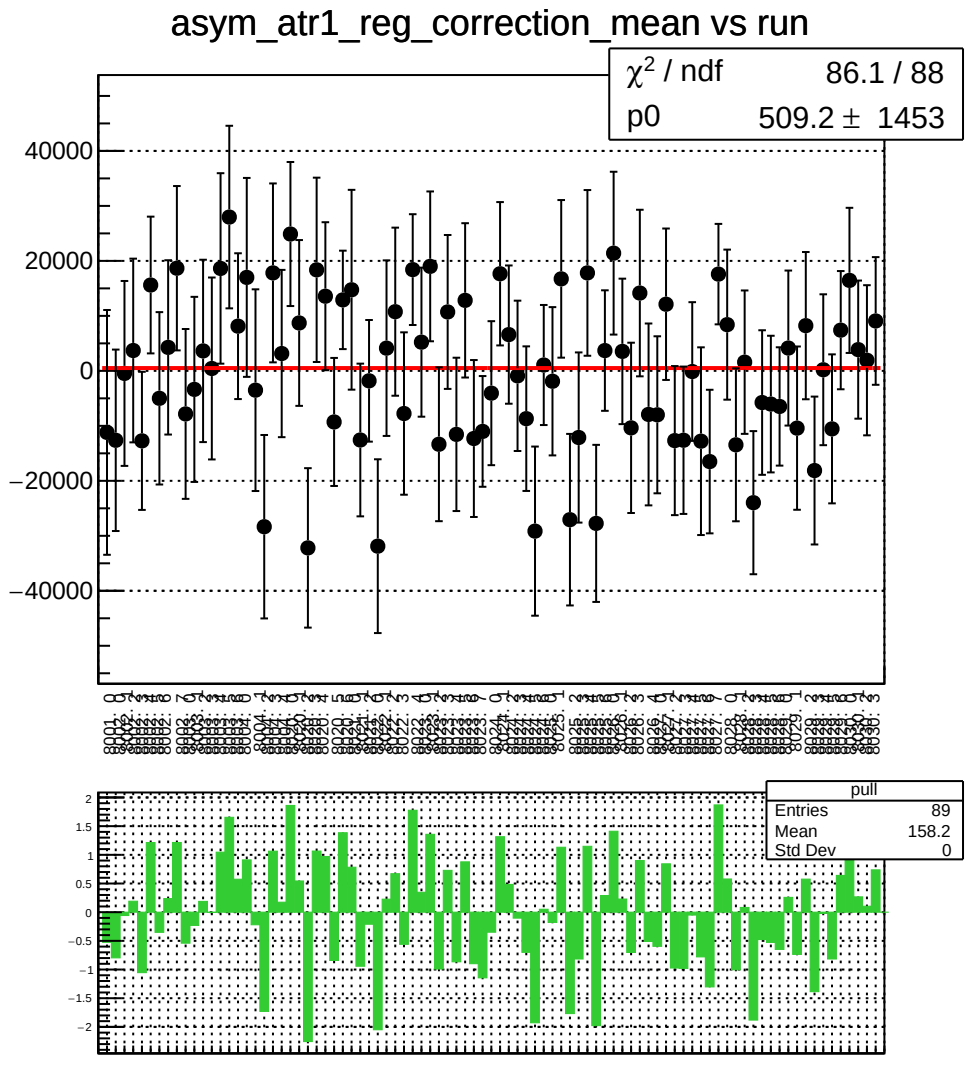

pull1D
Entries 89
Mean 0.02568
Std Dev 1.068

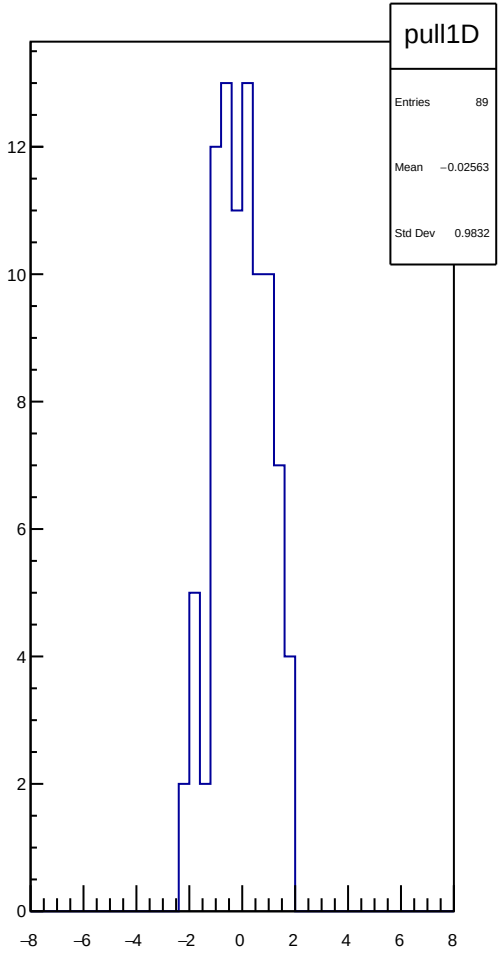

asym_atl2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.3e+05 / 88
p0 2.583e−10 ± 2.879e−13
4
3.5
3
2.5
2
1.5
1
0.5

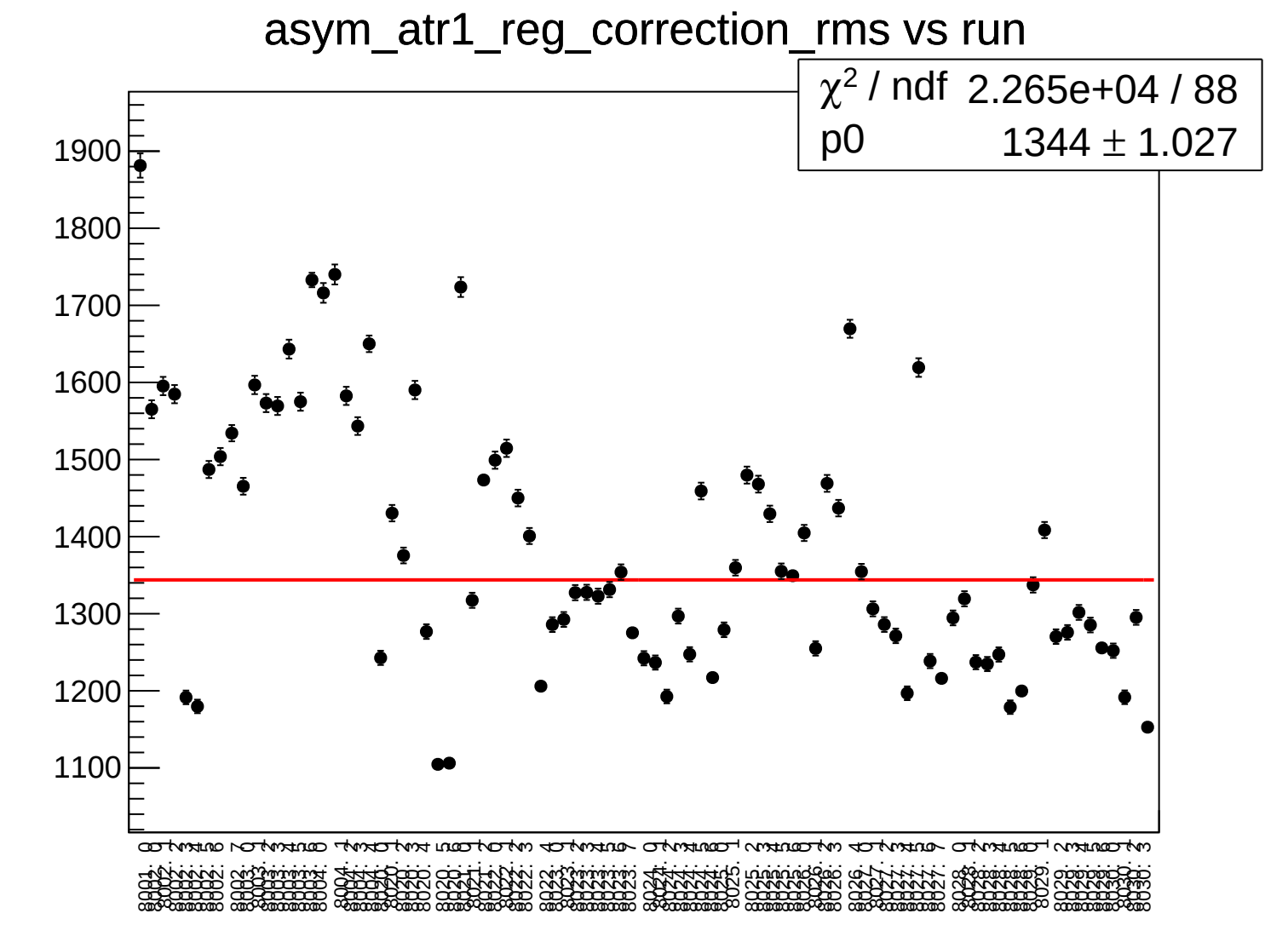

reg_asym_atr1_mean vs run
×10^3
χ^2 / ndf 93.41 / 88
p0 −5468 ± 3004
100
50
0
−50
−100
pull
Entries 89
Mean −37.59
Std Dev 38.58
3
2
1
0
−1
−2

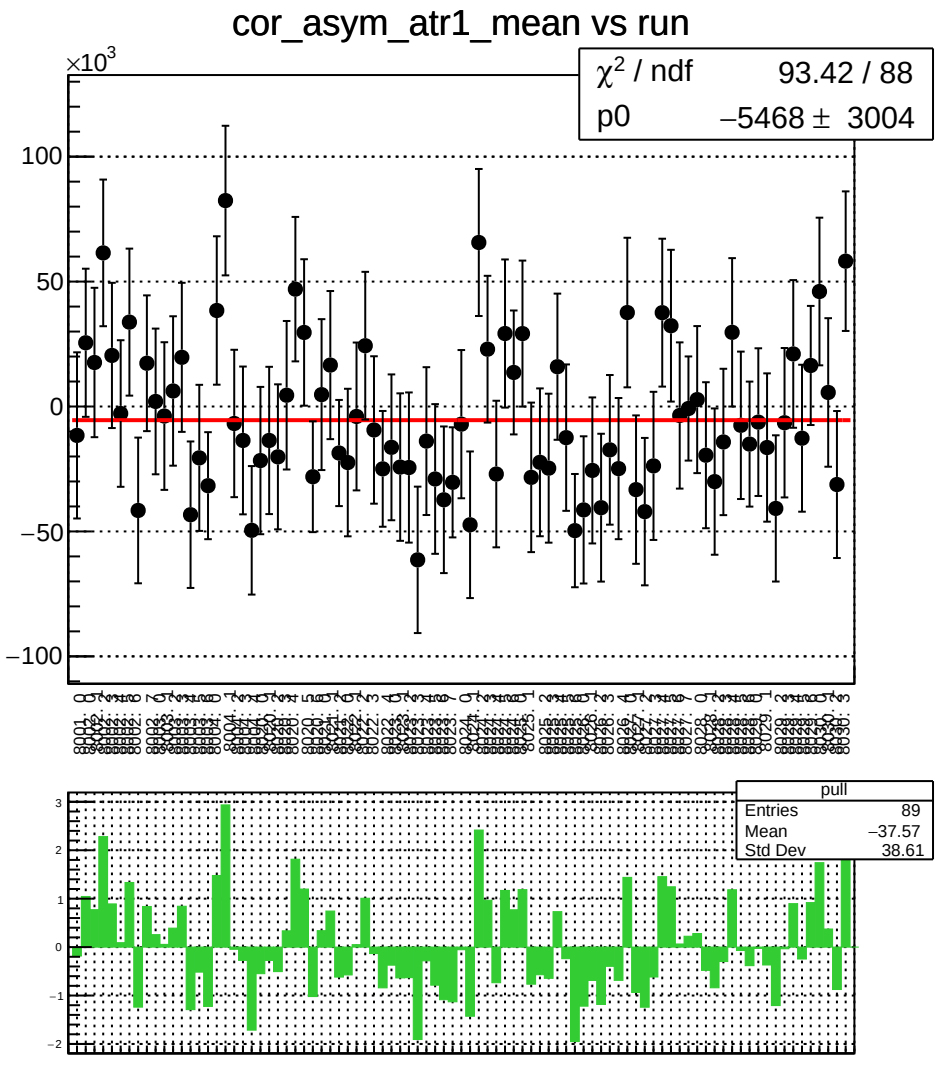

pull1D
Entries 89
Mean 0.02279
Std Dev 1.024
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

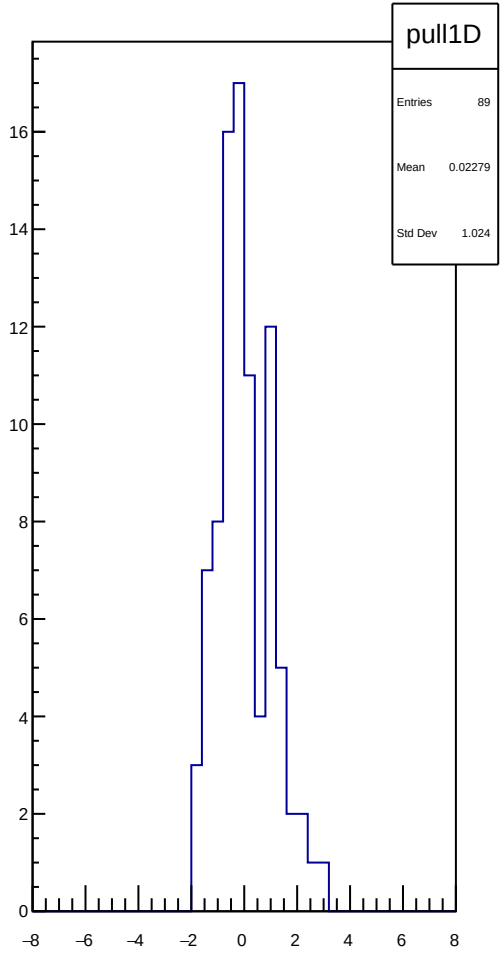

reg_asym_atr1_rms vs run
χ^2 / ndf 152.8 / 88
p0 2798 ± 2.124
2920
2900
2880
2860
2840
2820
2800
2780
2760
2740
2720

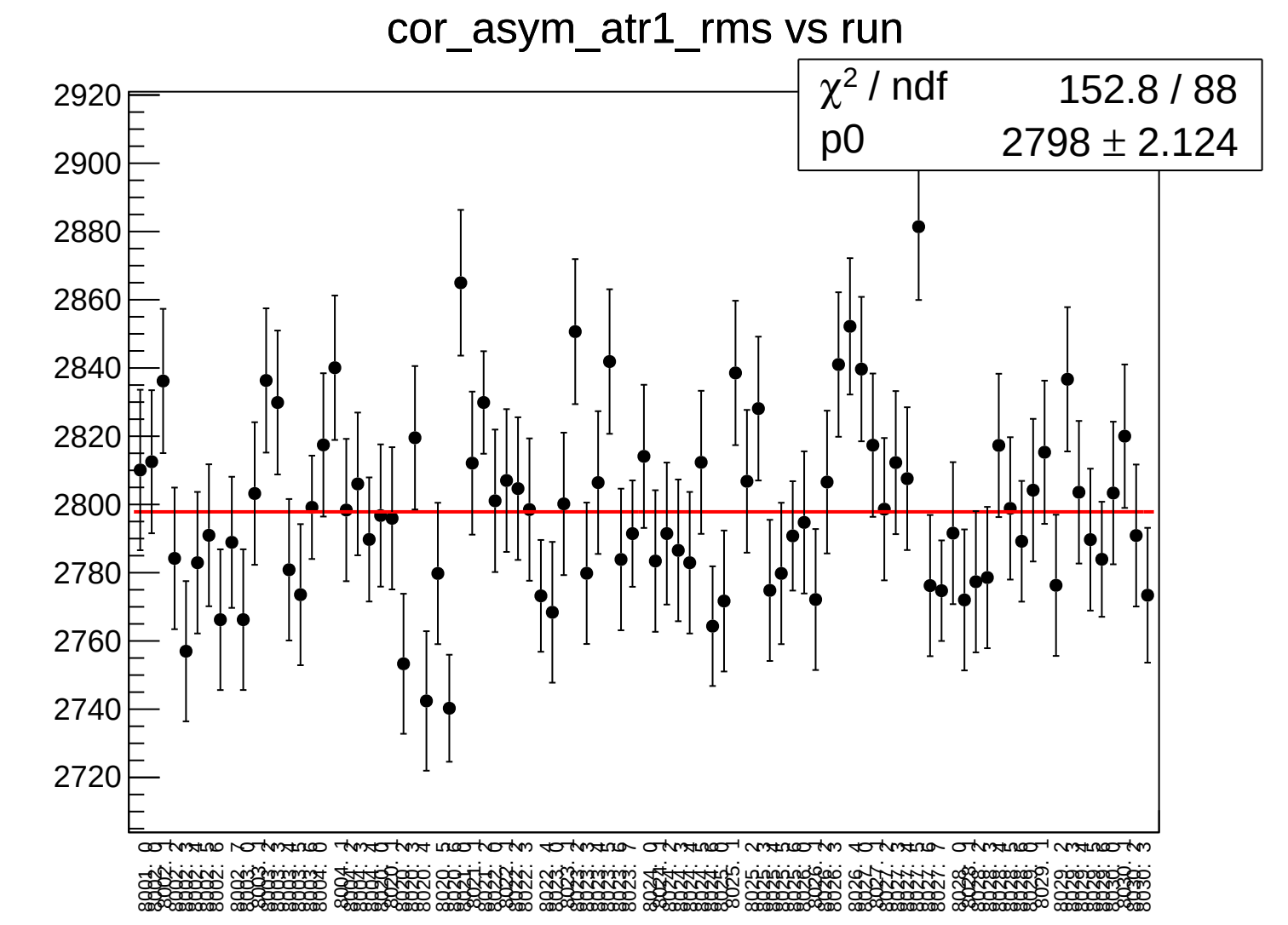

asym_atr1_reg_correction_mean vs run
χ² / ndf 86.1 / 88
p0 509.2 ± 1453
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 158.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

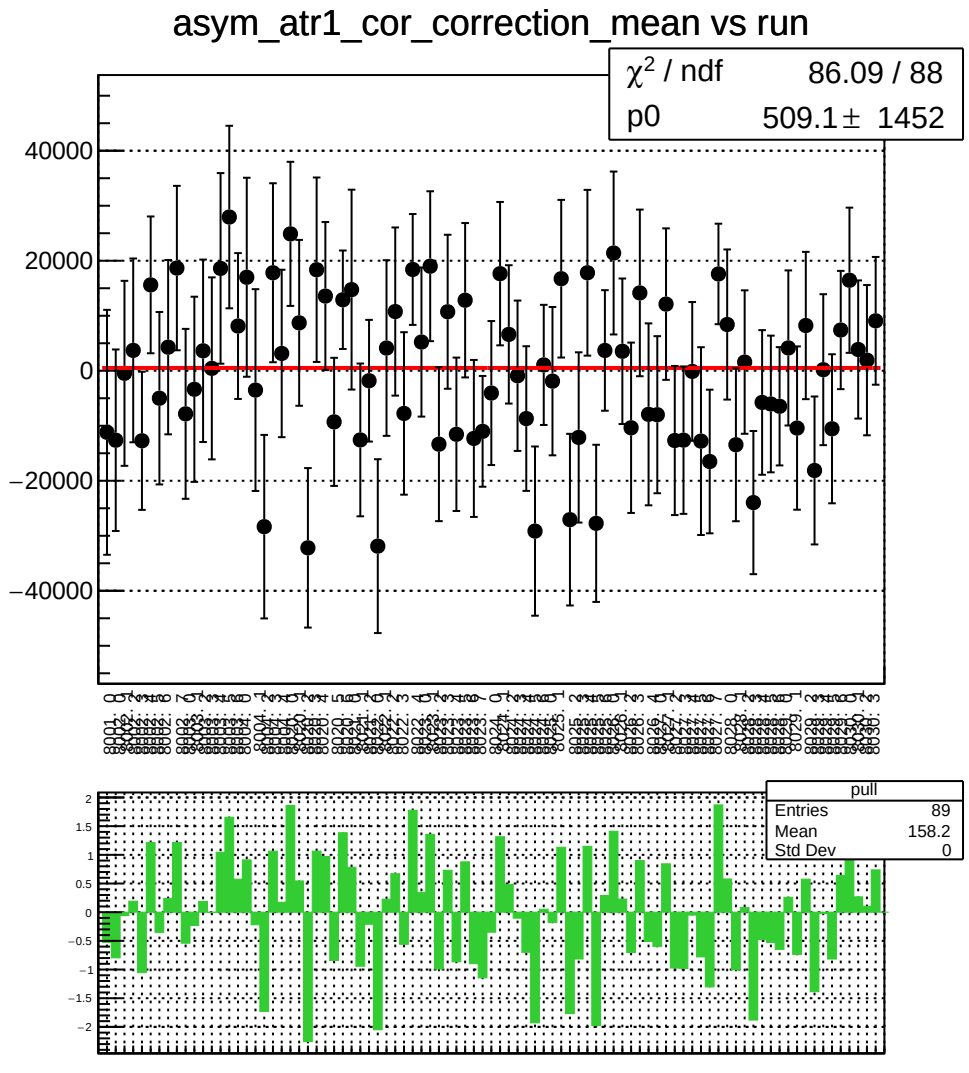

pull1D
Entries 89
Mean −0.02563
Std Dev 0.9832
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

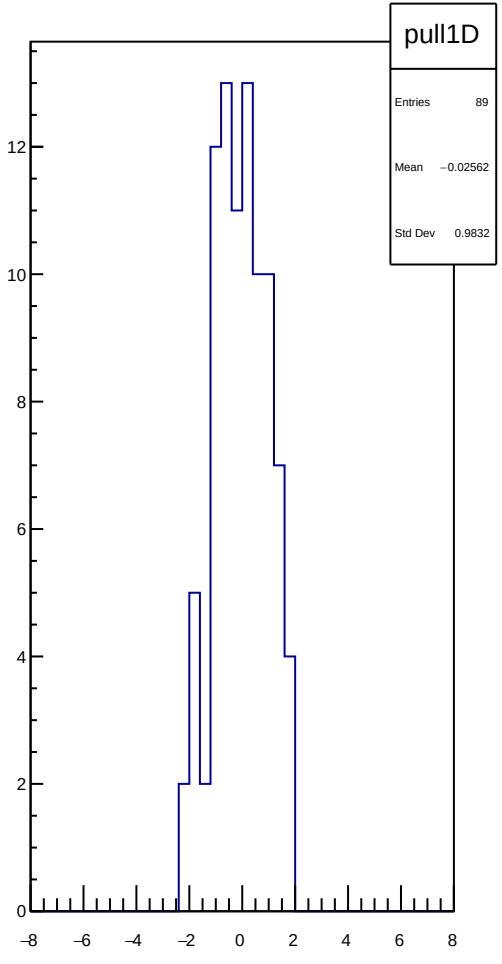

asym_atr1_reg_correction_rms vs run
χ² / ndf 2.265e+04 / 88
p0 1344 ± 1.027
1900
1800
1700
1600
1500
1400
1300
1200
1100

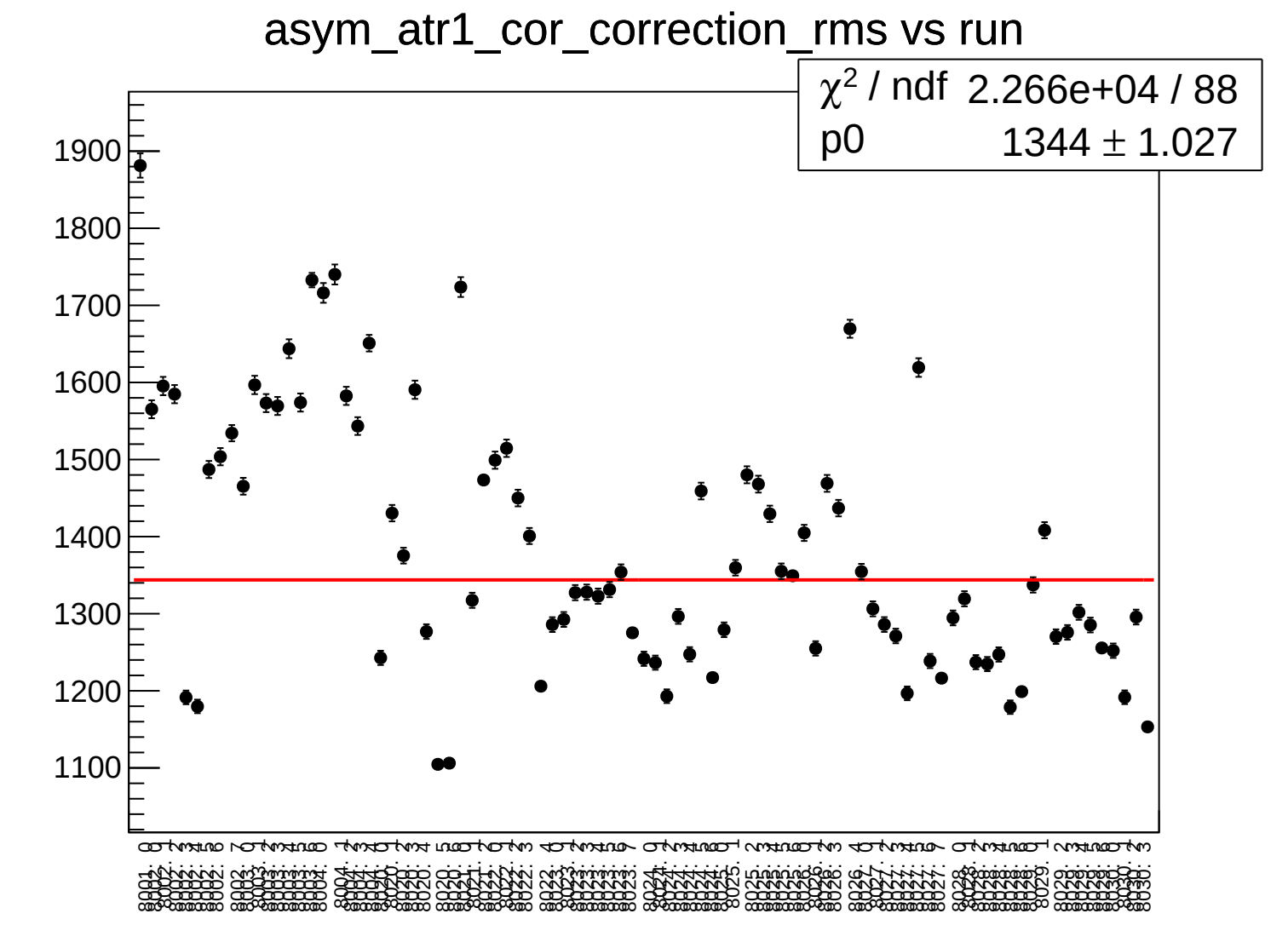

cor_asym_atr1_mean vs run
×10^3
χ^2 / ndf 93.42 / 88
p0 −5468 ± 3004
100
50
0
−50
−100
pull
Entries 89
Mean −37.57
Std Dev 38.61
3
2
1
0
−1
−2

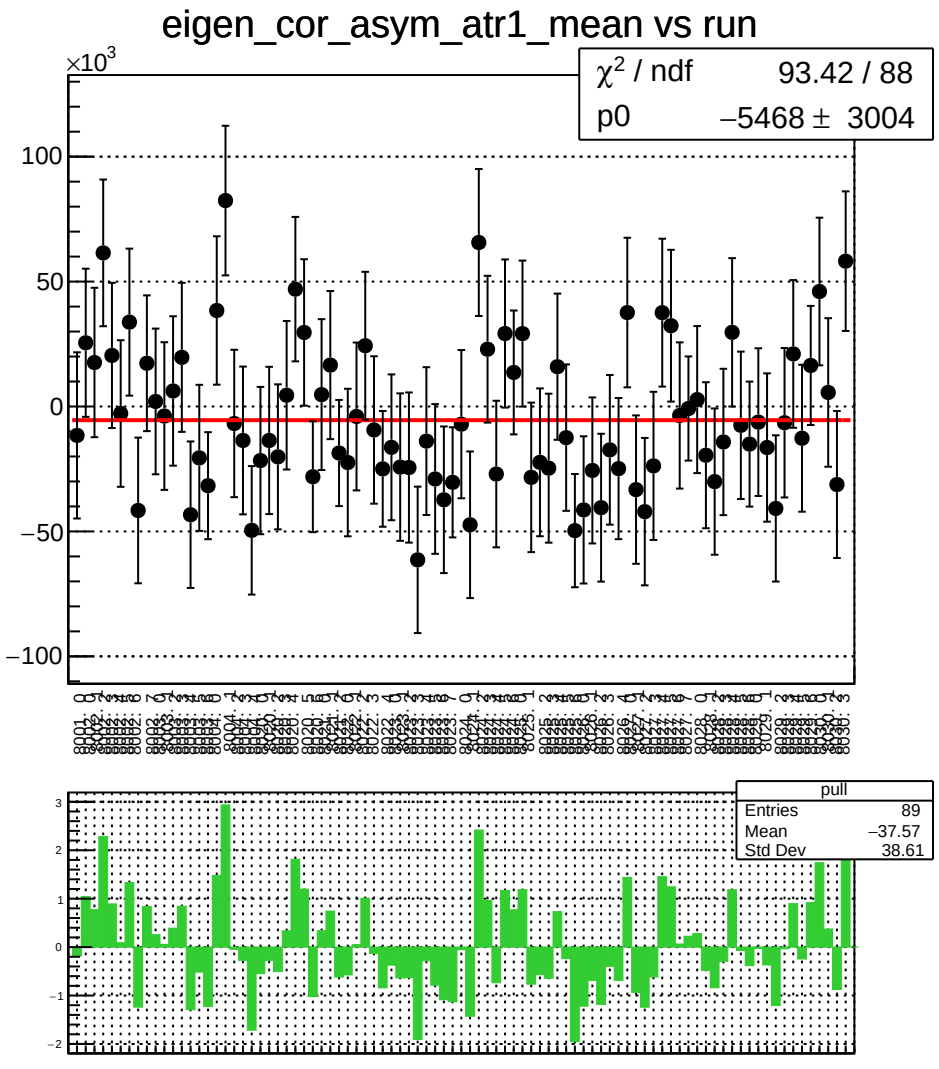

pull1D
Entries 89
Mean 0.02279
Std Dev 1.024
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

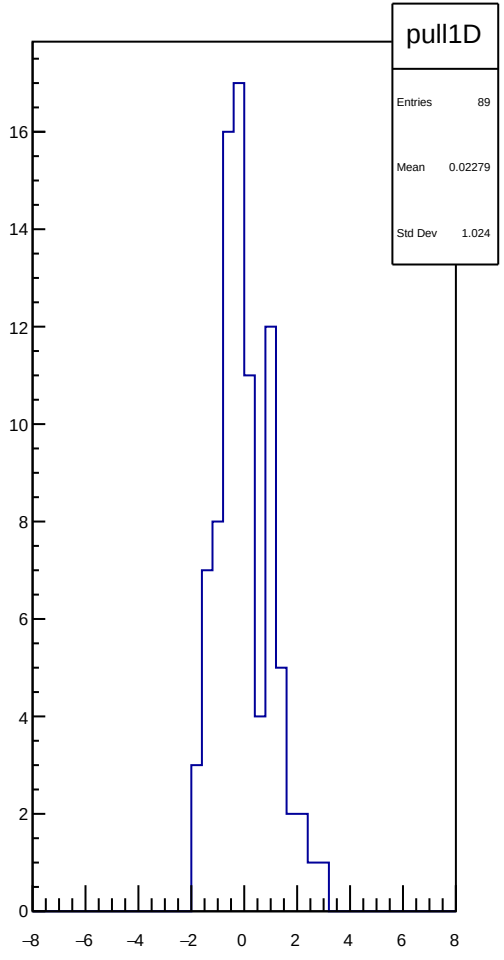

cor_asym_atr1_rms vs run
χ² / ndf 152.8 / 88
p0 2798 ± 2.124
2920
2900
2880
2860
2840
2820
2800
2780
2760
2740
2720

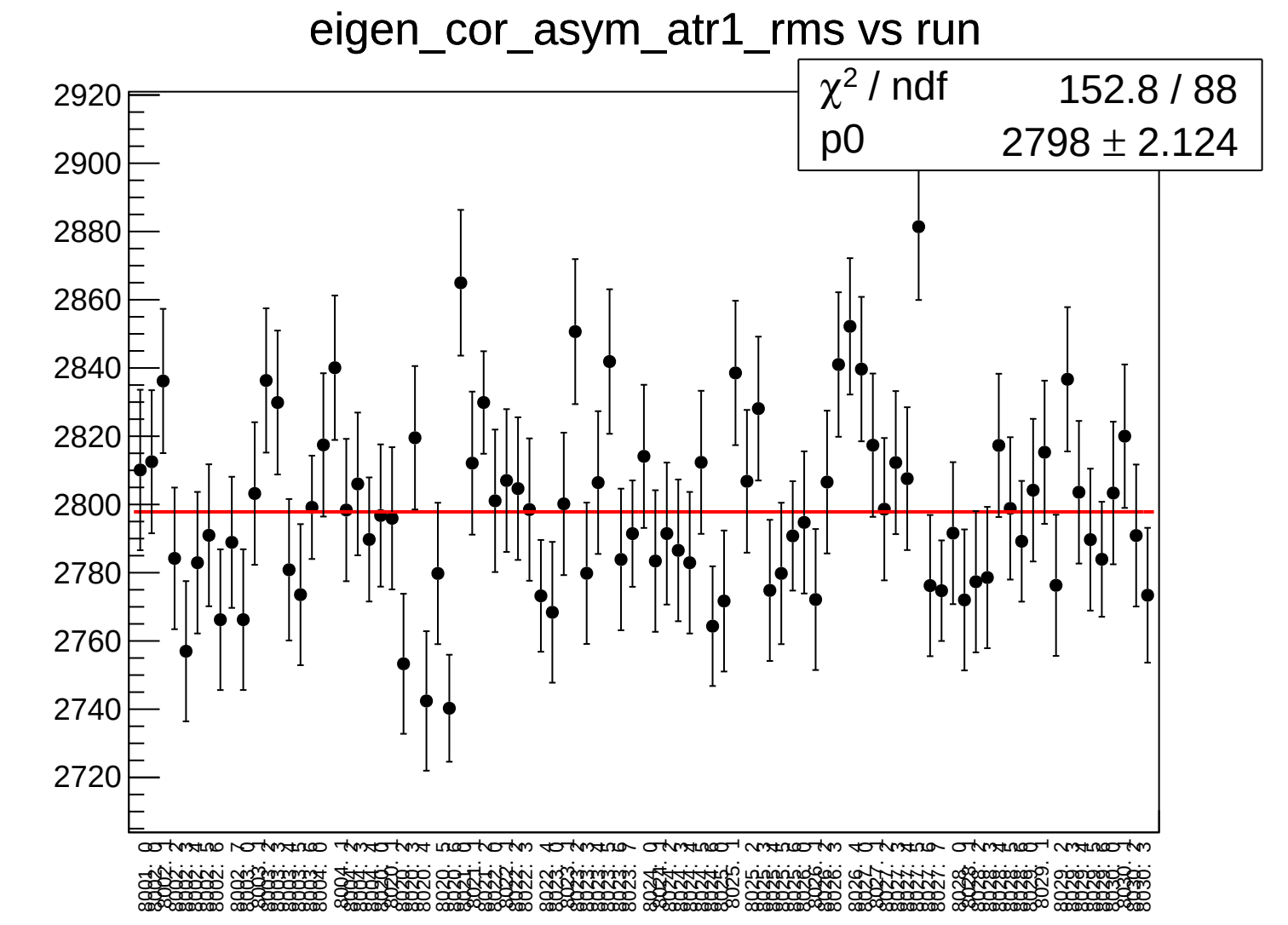

asym_atr1_cor_correction_mean vs run
χ² / ndf 86.09 / 88
p0 509.1 ± 1452
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 158.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

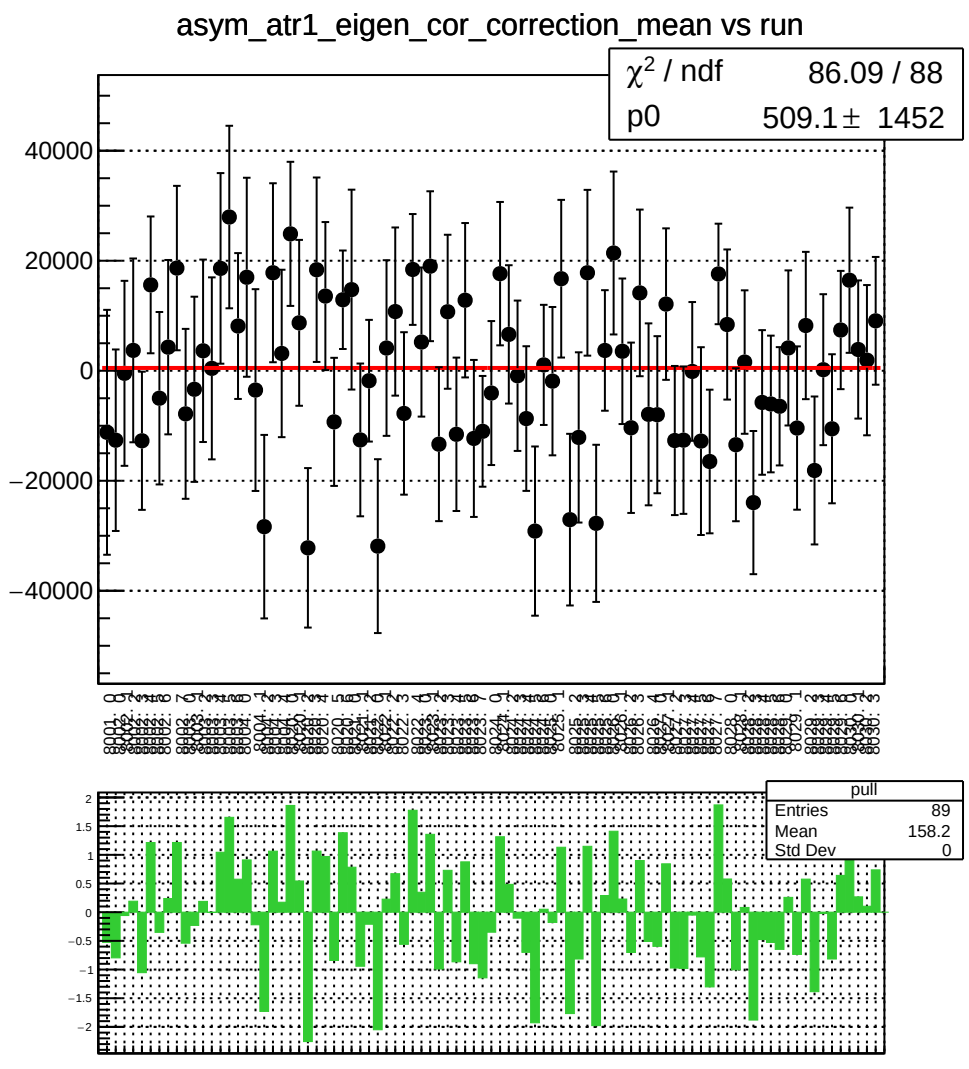

pull1D
Entries 89
Mean −0.02562
Std Dev 0.9832
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

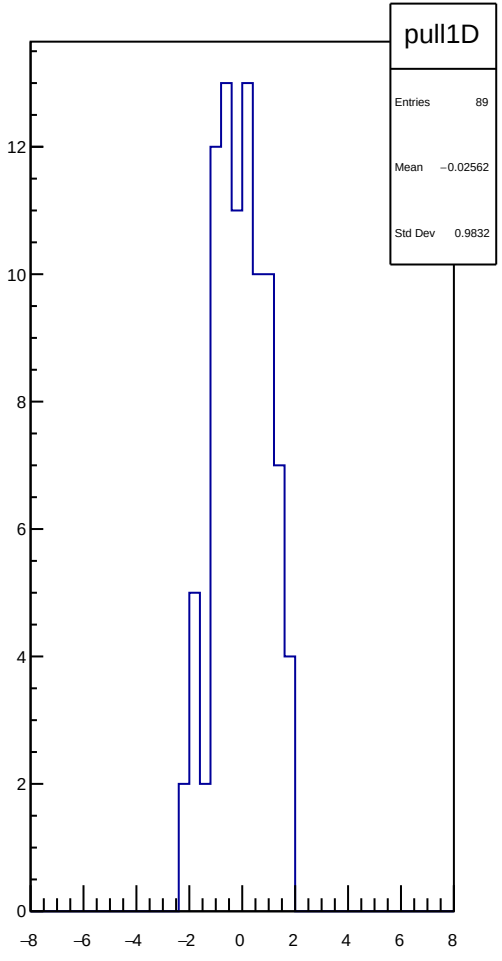

asym_atr1_cor_correction_rms vs run
χ² / ndf 2.266e+04 / 88
p0 1344 ± 1.027
1900
1800
1700
1600
1500
1400
1300
1200
1100

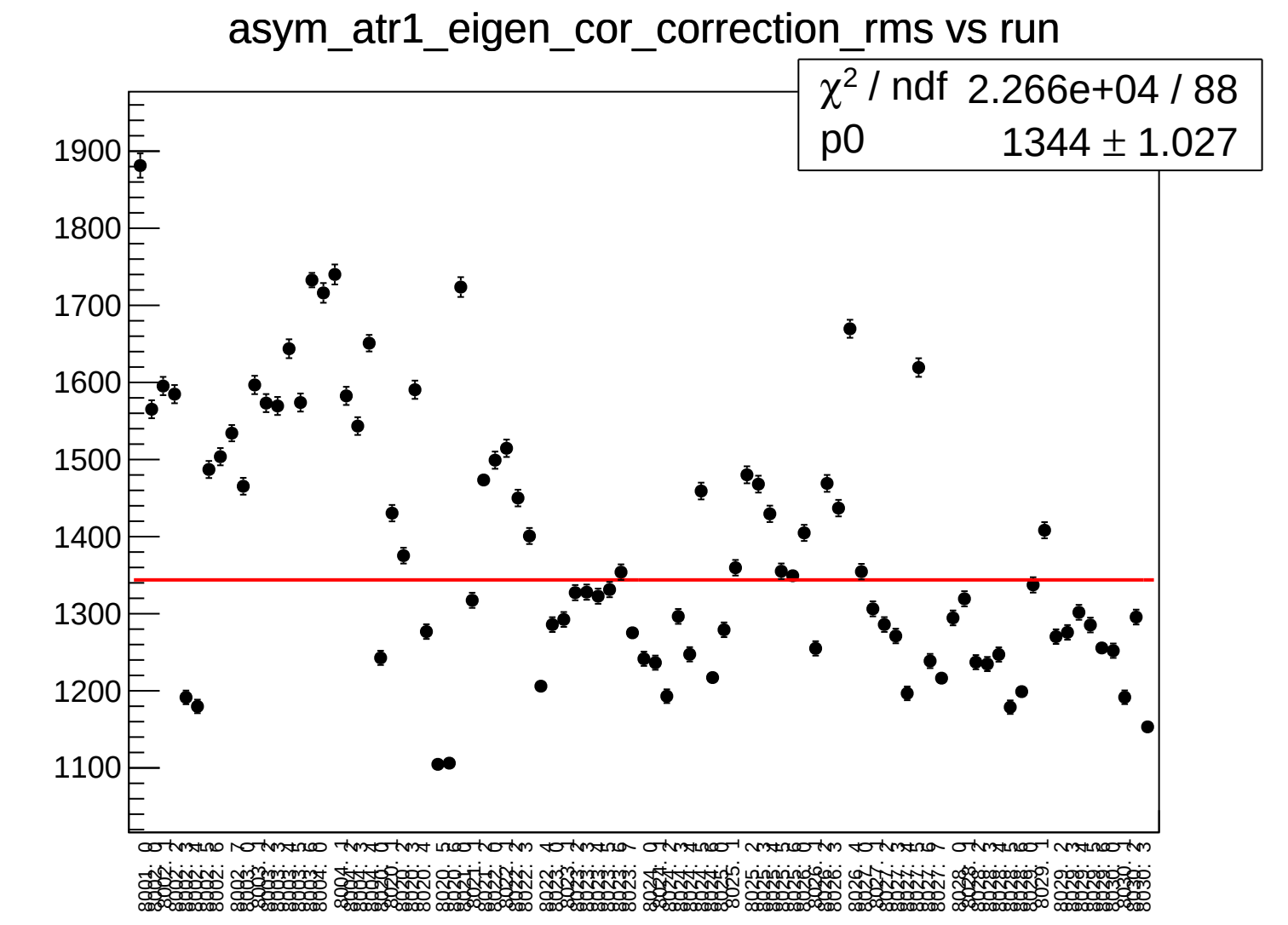

eigen_cor_asym_atr1_mean vs run
×10^3
χ^2 / ndf 93.42 / 88
p0 −5468 ± 3004
100
50
0
−50
−100
pull
Entries 89
Mean −37.57
Std Dev 38.61
3
2
1
0
−1
−2

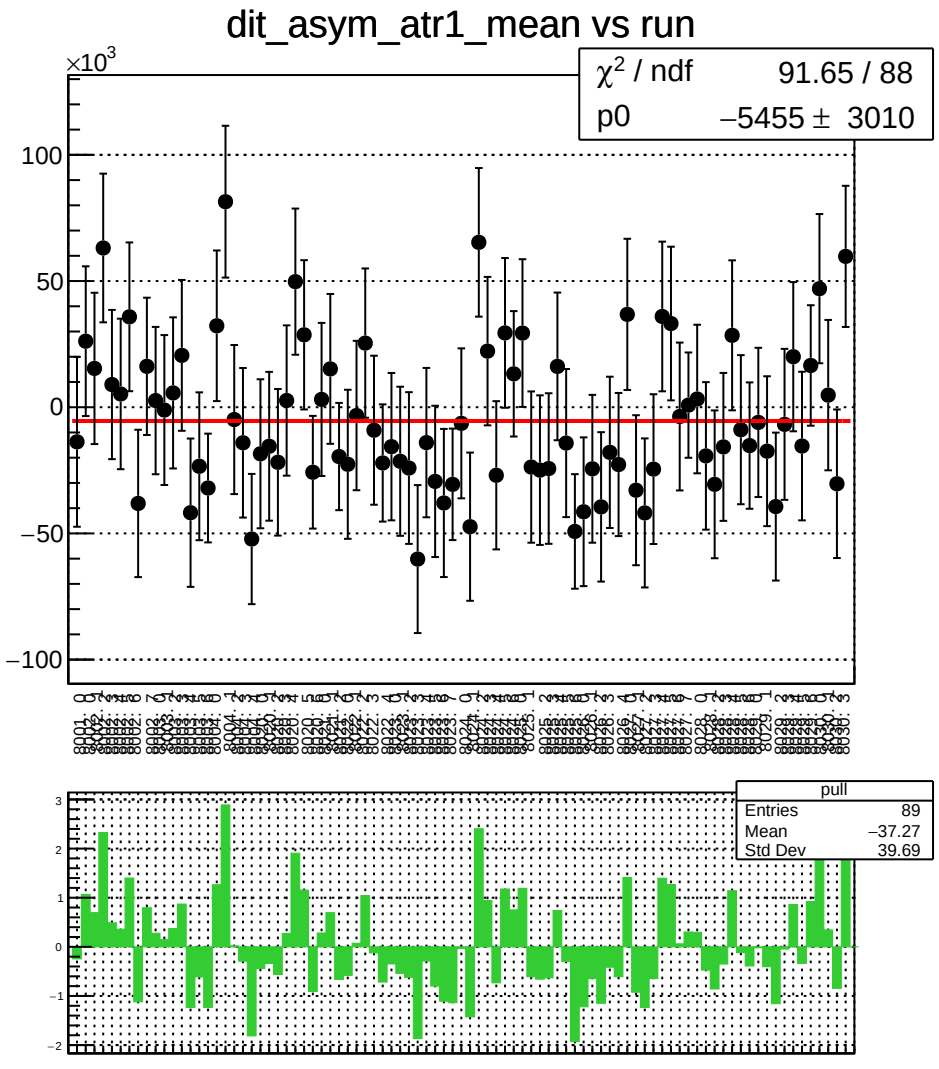

pull1D
Entries 89
Mean 0.02279
Std Dev 1.024
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

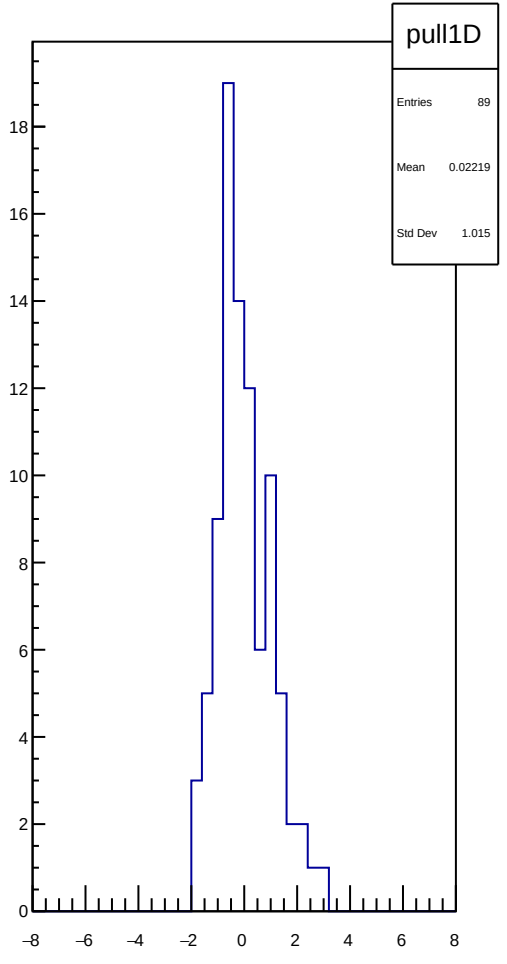

eigen_cor_asym_atr1_rms vs run
χ² / ndf 152.8 / 88
p0 2798 ± 2.124
2920
2900
2880
2860
2840
2820
2800
2780
2760
2740
2720

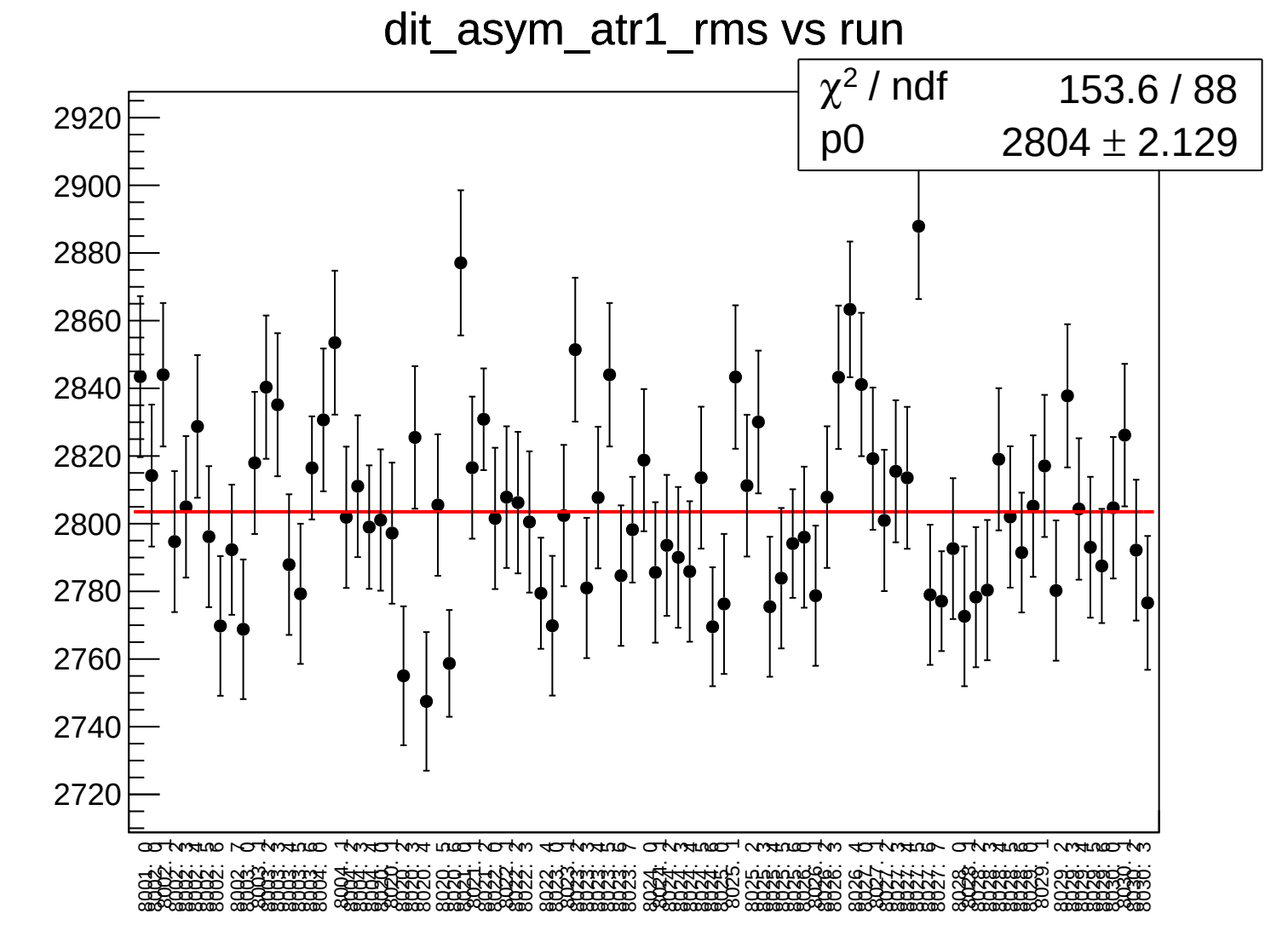

asym_atr1_eigen_cor_correction_mean vs run
χ² / ndf 86.09 / 88
p0 509.1 ± 1452
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 158.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

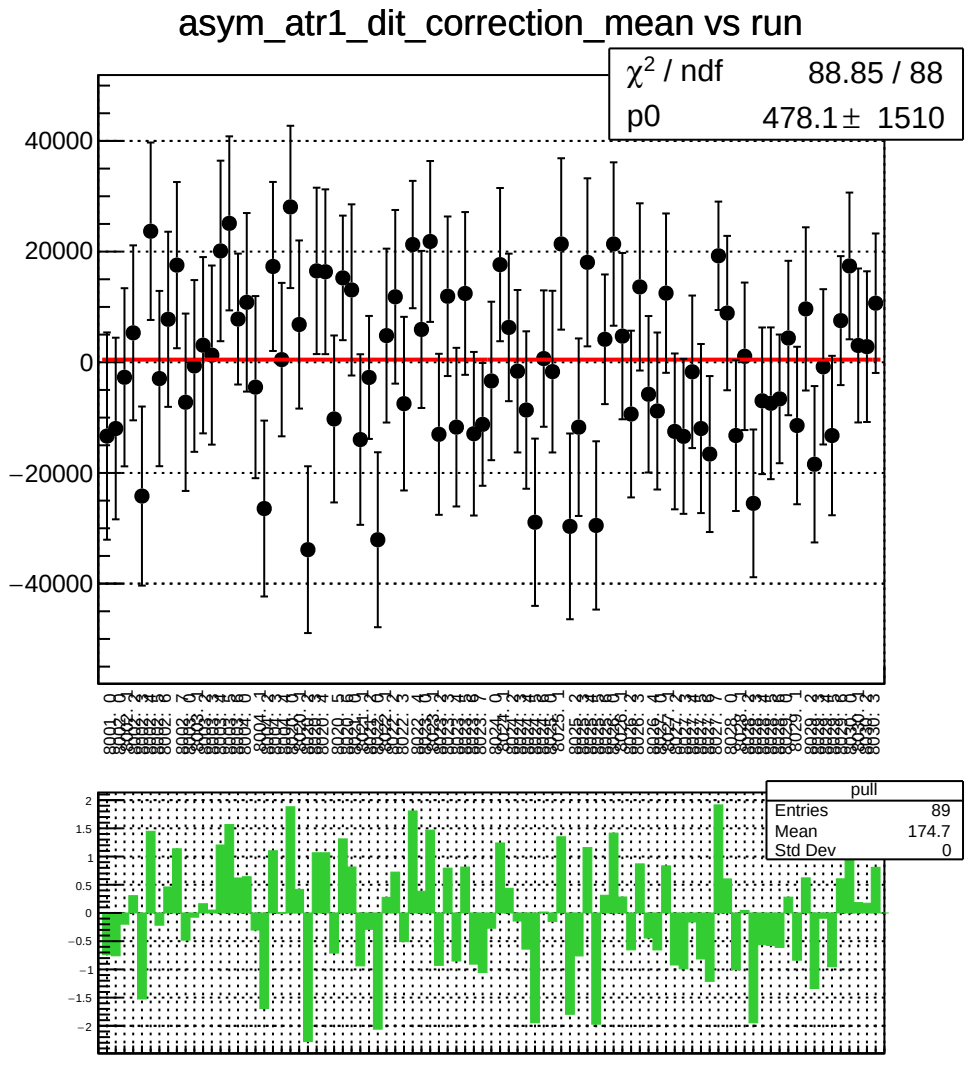

pull1D
Entries 89
Mean −0.02562
Std Dev 0.9832
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

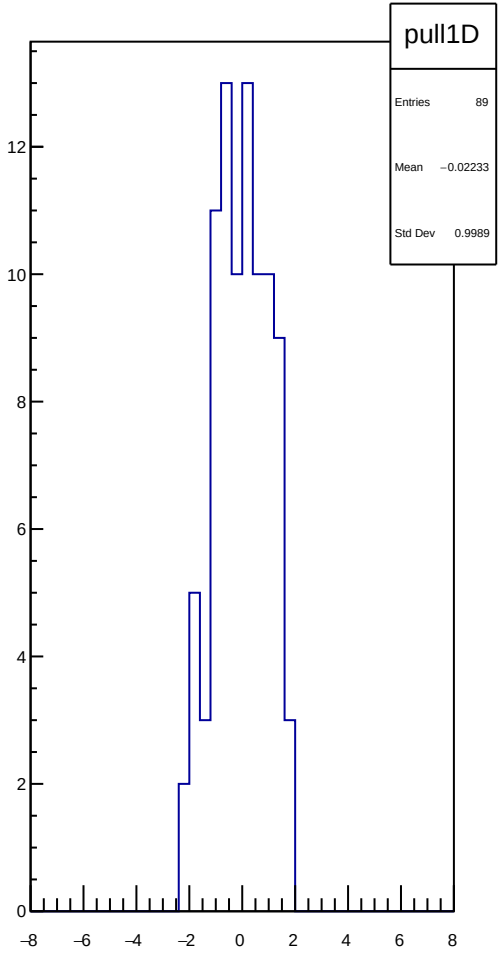

asym_atr1_eigen_cor_correction_rms vs run
χ² / ndf 2.266e+04 / 88
p0 1344 ± 1.027
1900
1800
1700
1600
1500
1400
1300
1200
1100

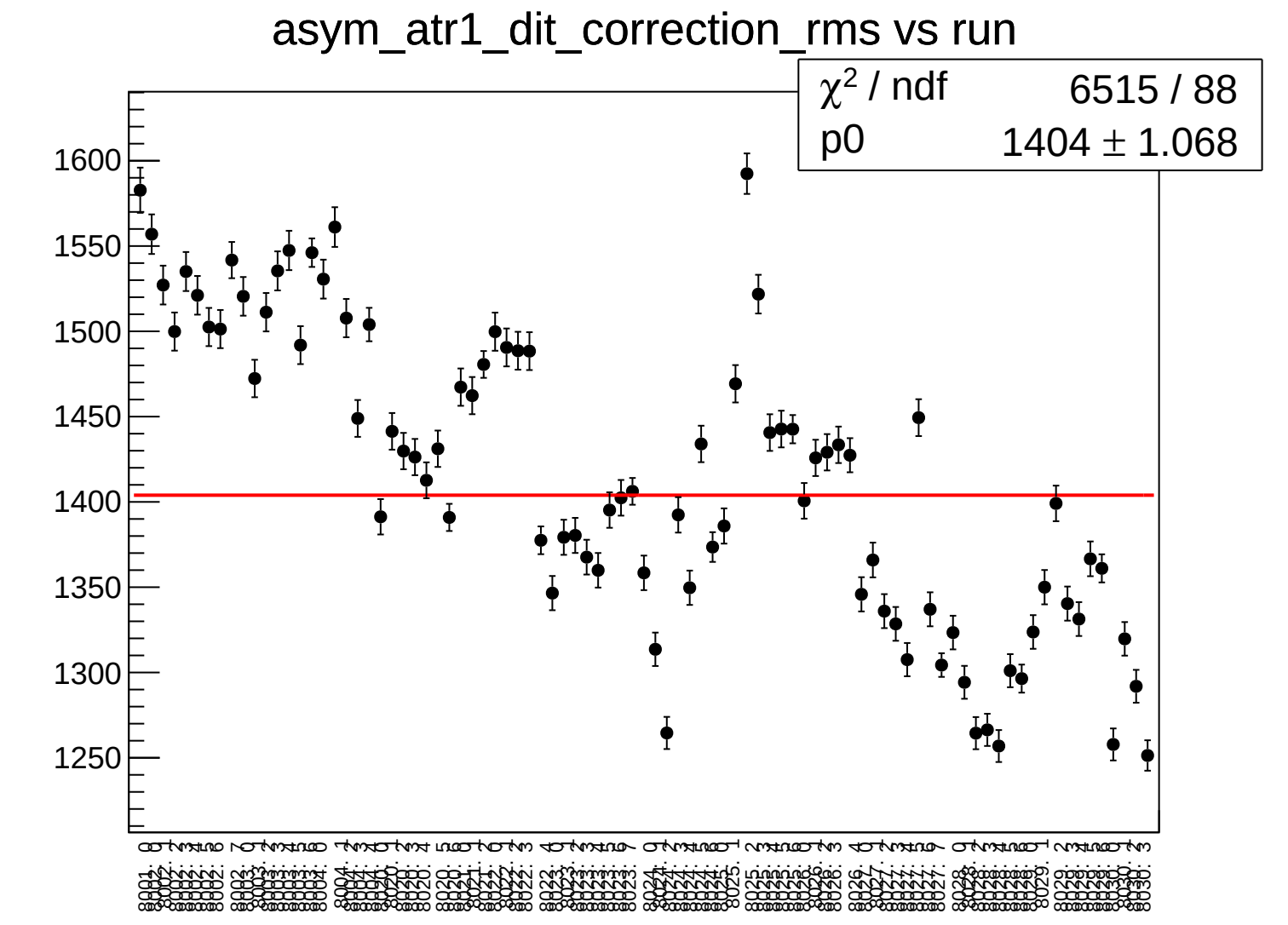

dit_asym_atr1_mean vs run
×10^3
χ² / ndf 91.65 / 88
p0 −5455 ± 3010
100
50
0
−50
−100
pull
Entries 89
Mean −37.27
Std Dev 39.69
3
2
1
0
−1
−2

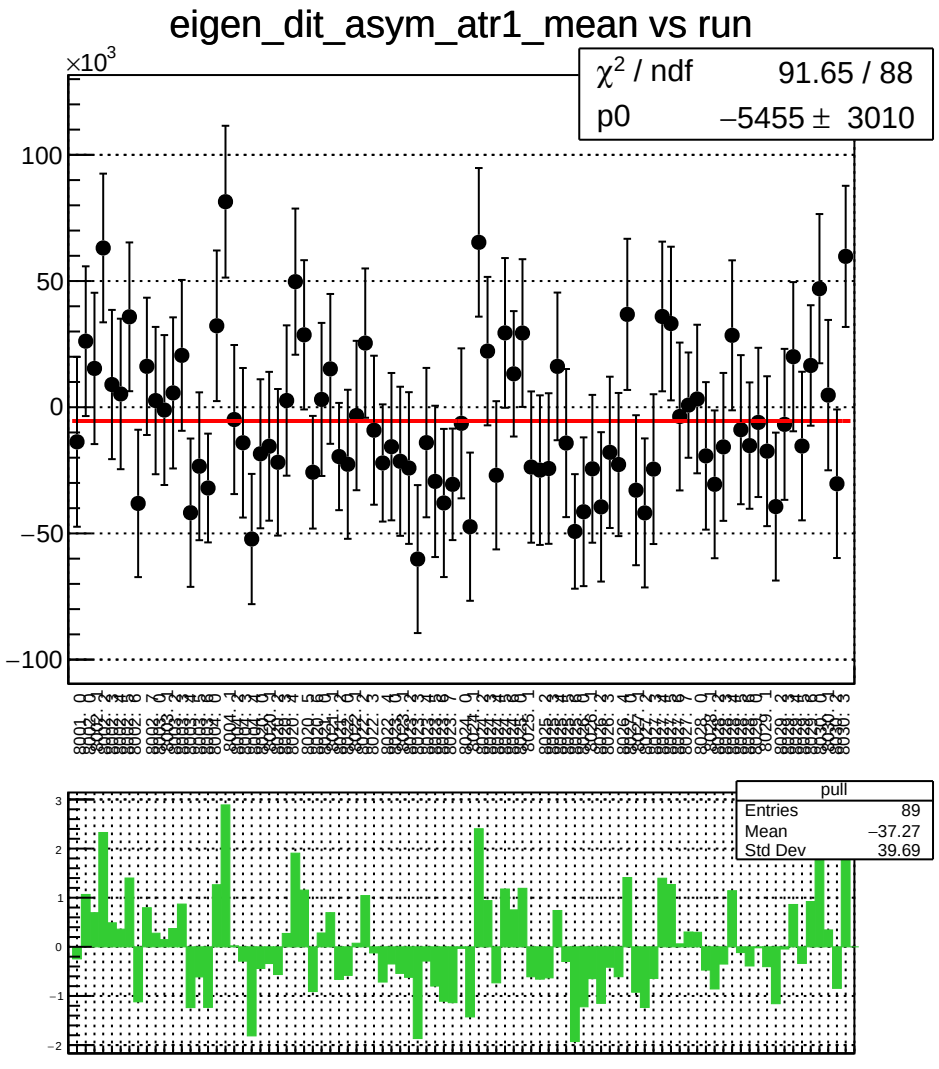

pull1D
Entries 89
Mean 0.02219
Std Dev 1.015
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

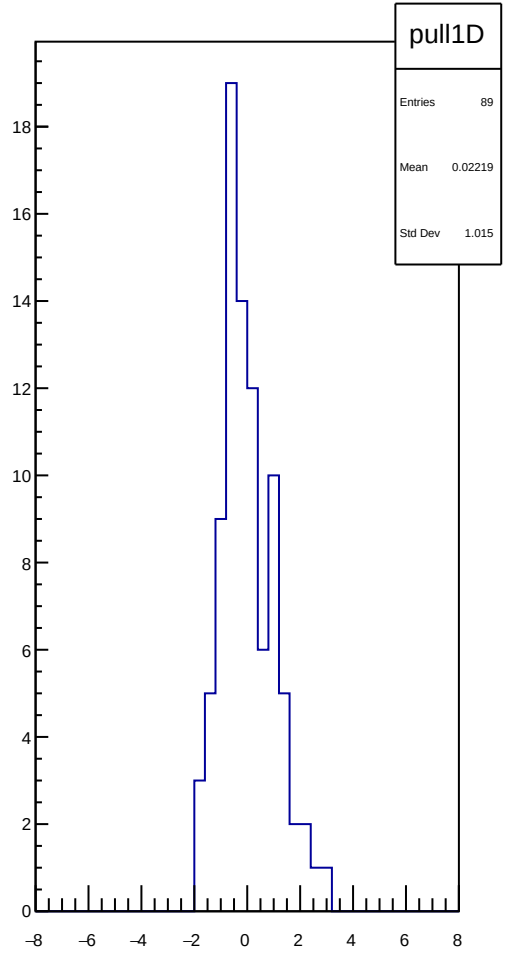

dit_asym_atr1_rms vs run
χ² / ndf 153.6 / 88
p0 2804 ± 2.129
2920
2900
2880
2860
2840
2820
2800
2780
2760
2740
2720

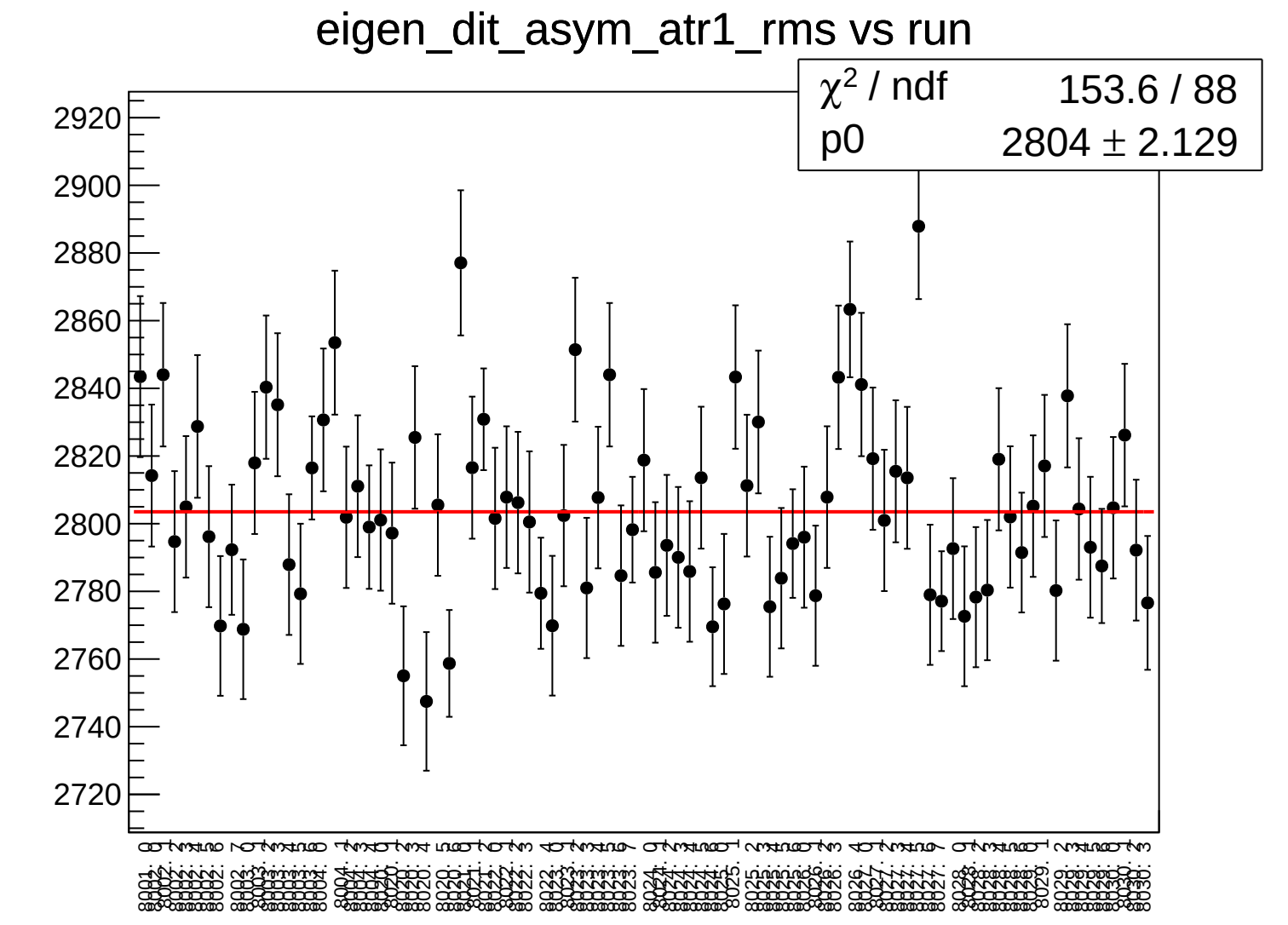

asym_atr1_dit_correction_mean vs run
χ² / ndf 88.85 / 88
p0 478.1 ± 1510
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 174.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

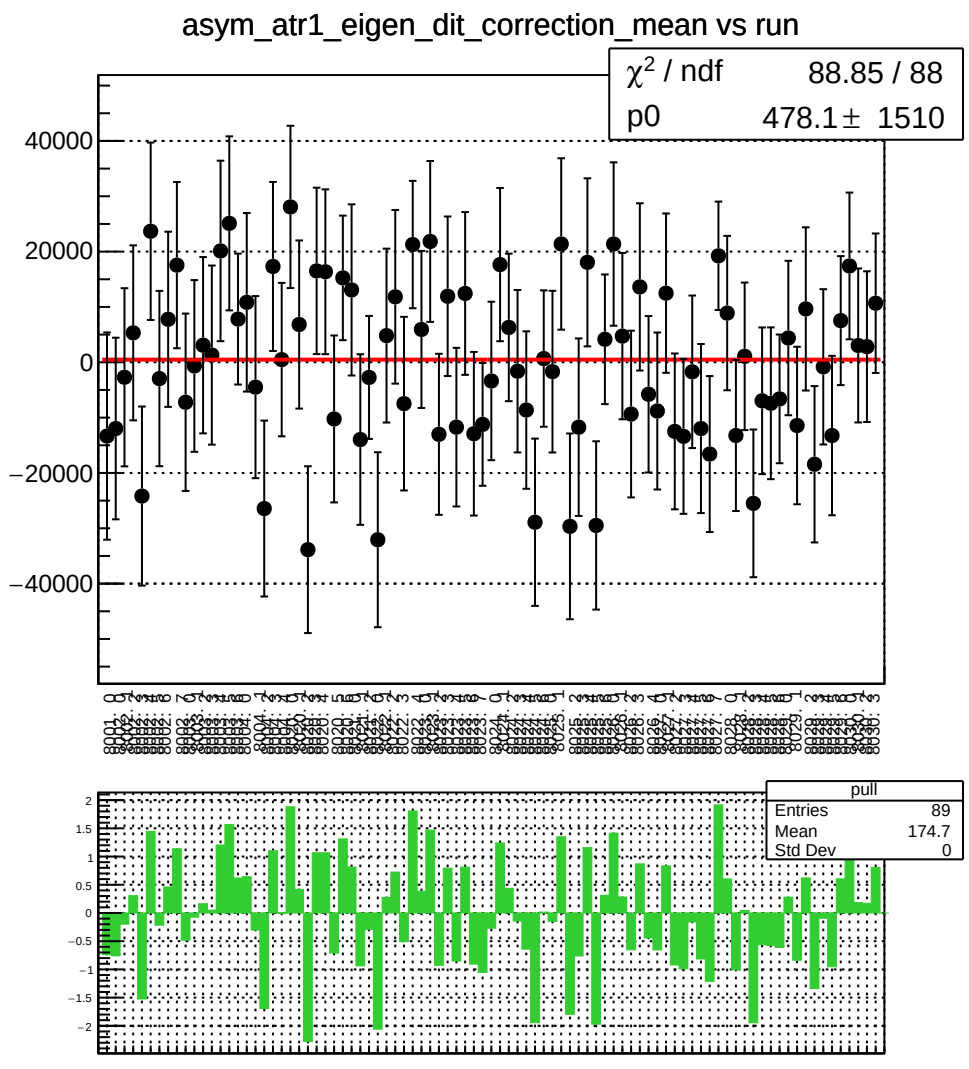

pull1D
Entries 89
Mean −0.02233
Std Dev 0.9989
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

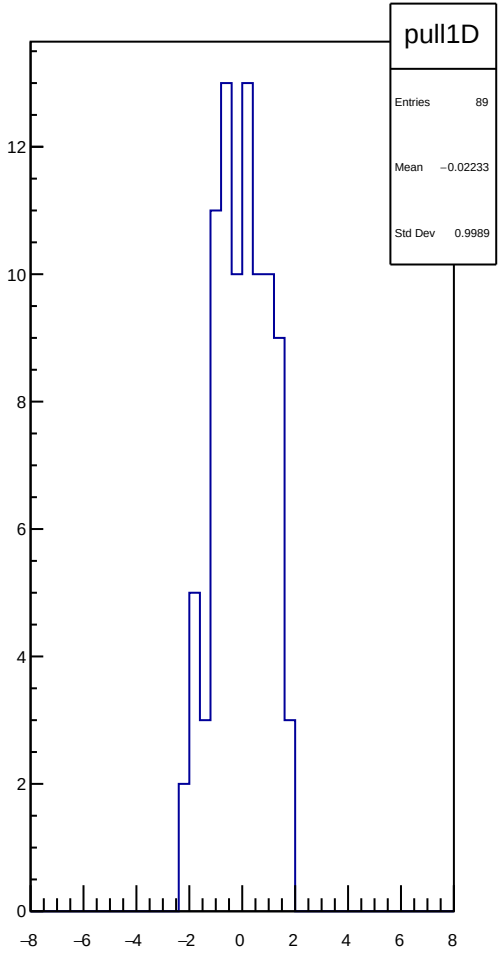

asym_atr1_dit_correction_rms vs run
χ² / ndf 6515 / 88
p0 1404 ± 1.068
1600
1550
1500
1450
1400
1350
1300
1250

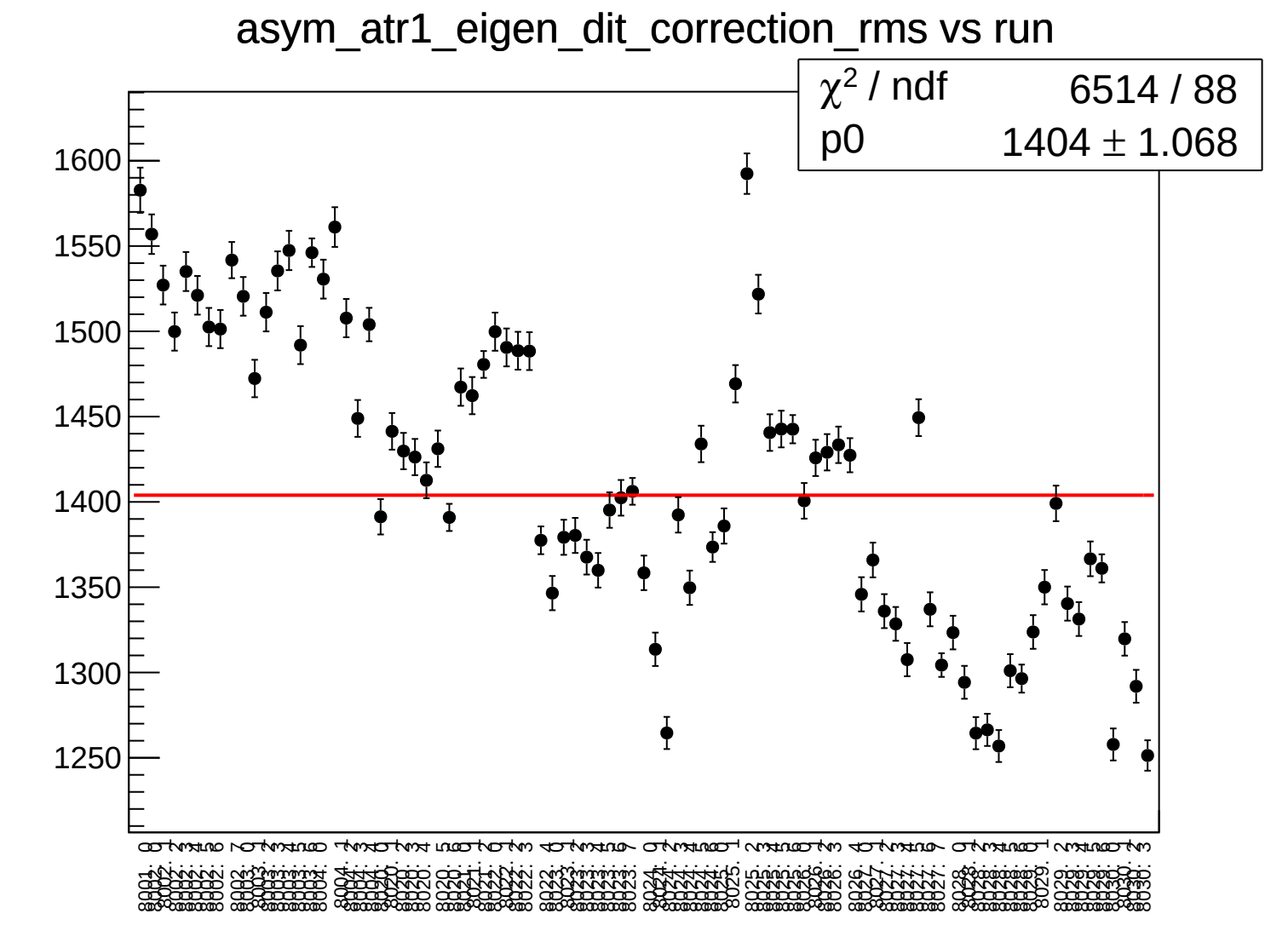

eigen_dit_asym_atr1_mean vs run
×10^3
χ² / ndf 91.65 / 88
p0 −5455 ± 3010
100
50
0
−50
−100
pull
Entries 89
Mean −37.27
Std Dev 39.69
3
2
1
0
−1
−2

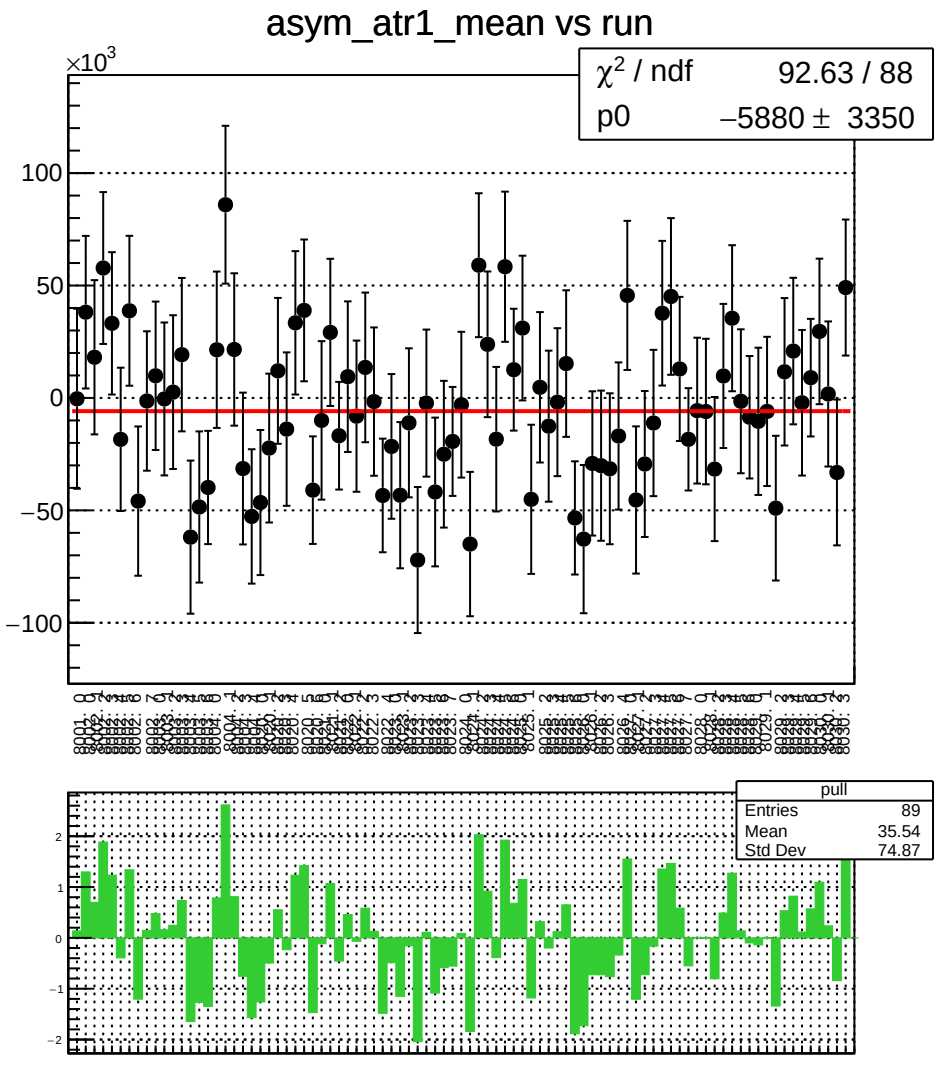

pull1D
Entries 89
Mean 0.02219
Std Dev 1.015
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

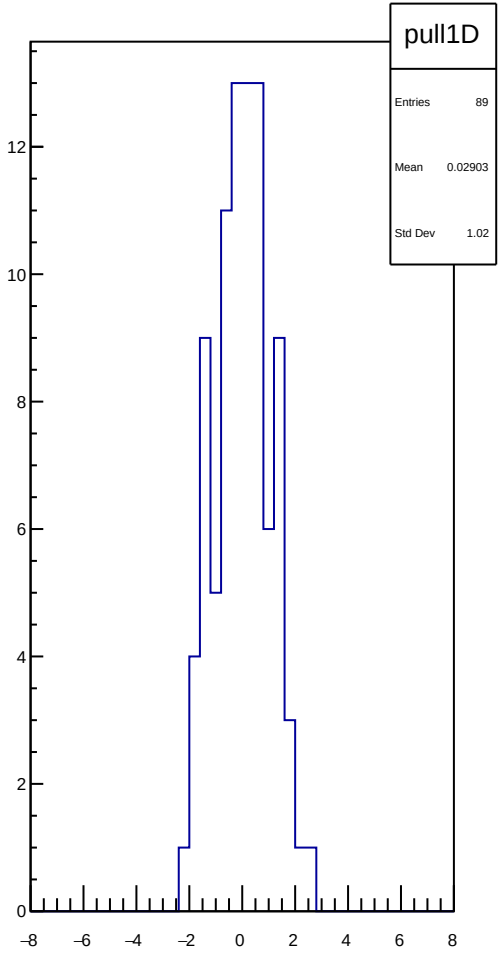

eigen_dit_asym_atr1_rms vs run
χ^2 / ndf 153.6 / 88
p0 2804 ± 2.129
2920
2900
2880
2860
2840
2820
2800
2780
2760
2740
2720

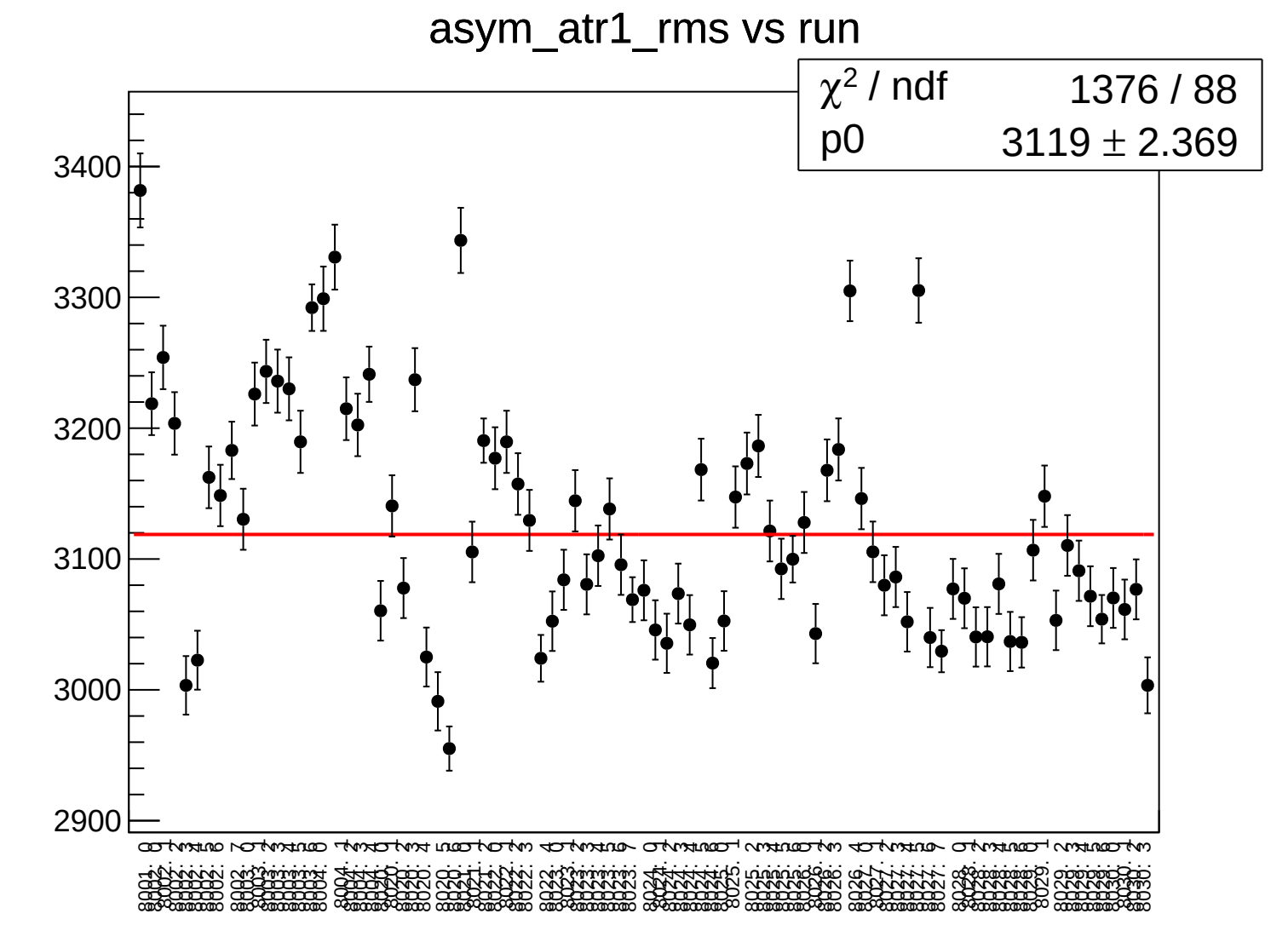

asym_atr1_eigen_dit_correction_mean vs run
χ² / ndf 88.85 / 88
p0 478.1 ± 1510
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 174.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

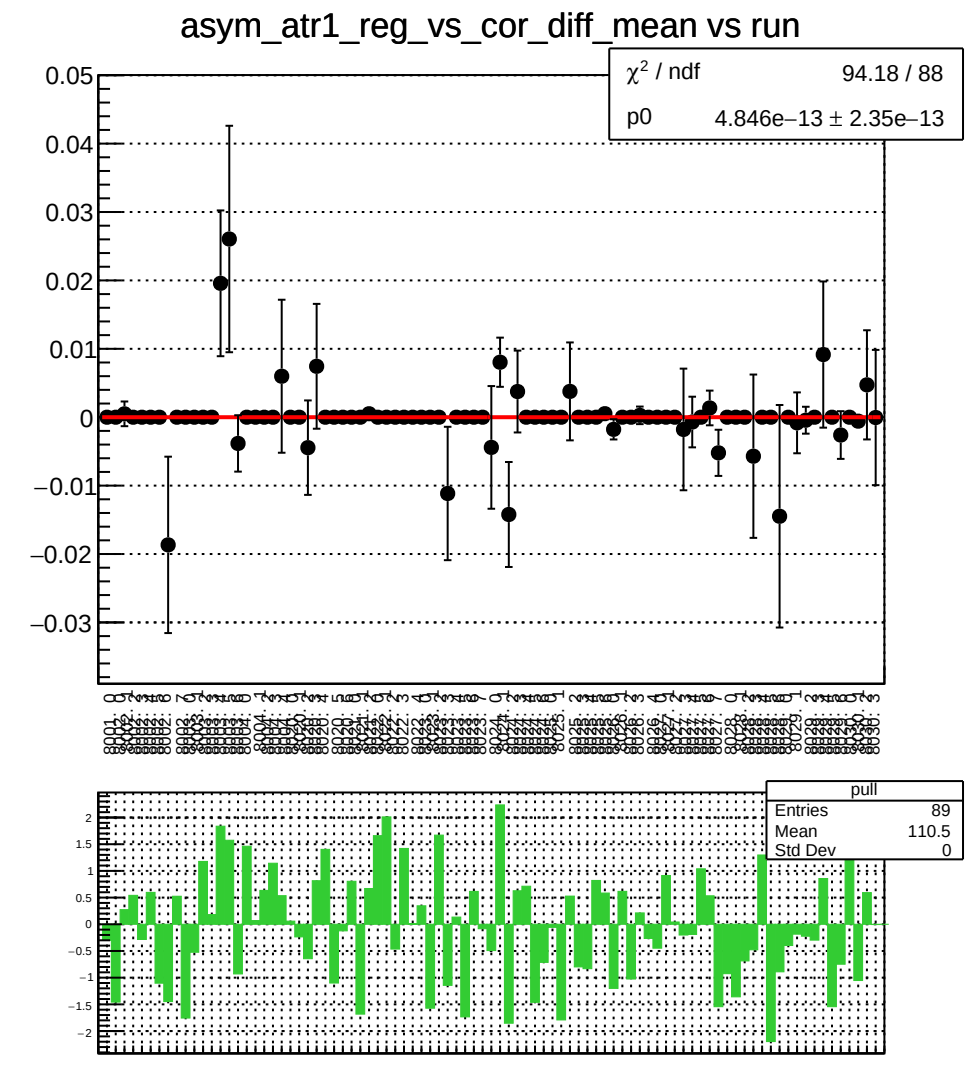

pull1D
Entries 89
Mean −0.02233
Std Dev 0.9989
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

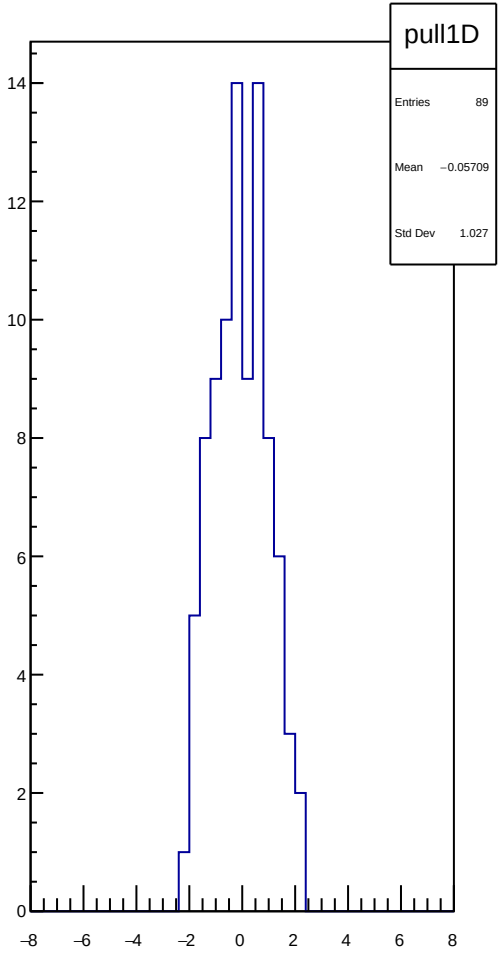

asym_atr1_eigen_dit_correction_rms vs run
χ² / ndf 6514 / 88
p0 1404 ± 1.068
1600
1550
1500
1450
1400
1350
1300
1250

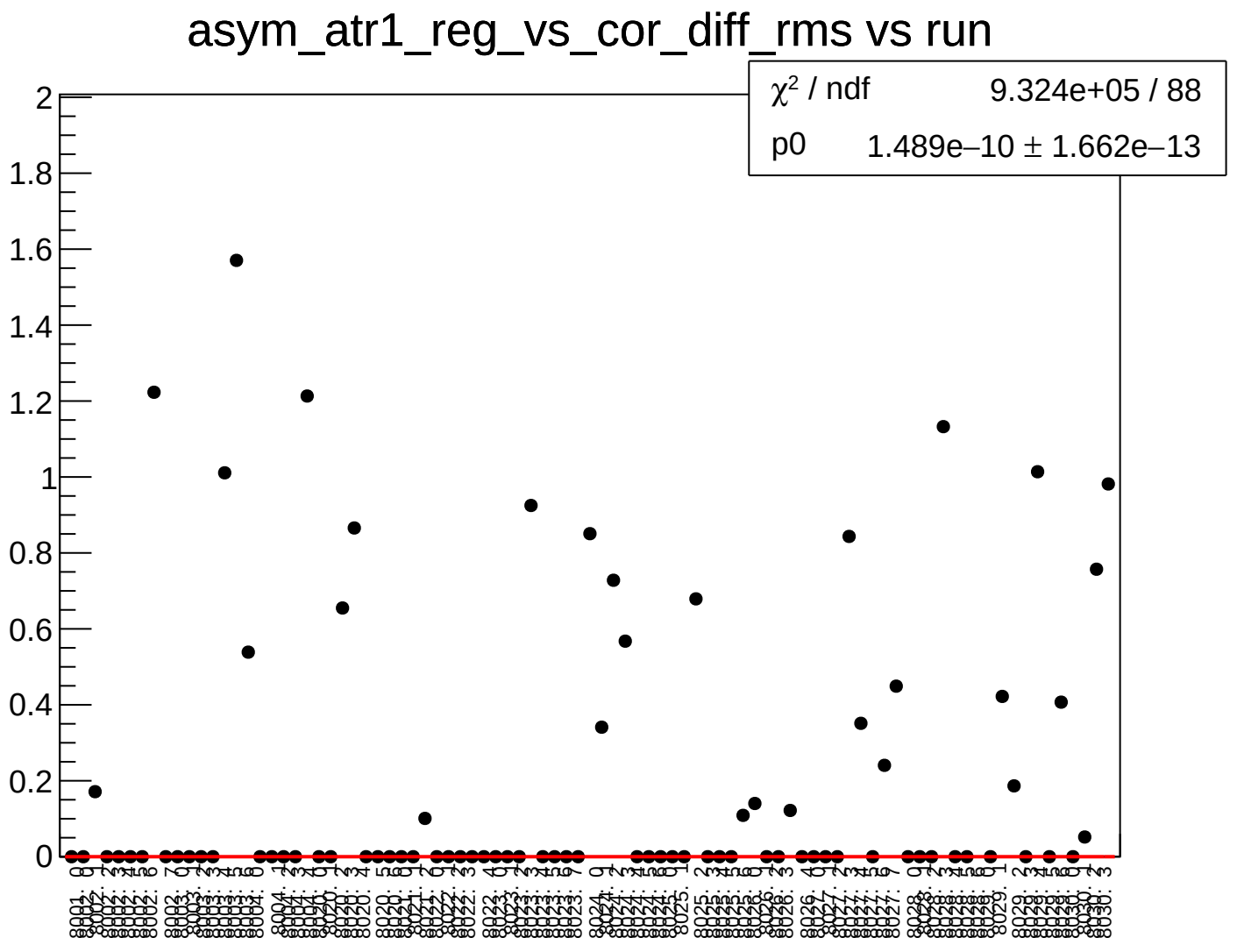

asym_atr1_mean vs run
×10^3
χ² / ndf 92.63 / 88
p0 −5880 ± 3350
100
50
0
−50
−100
pull
Entries 89
Mean 35.54
Std Dev 74.87
2
1
0
−1
−2

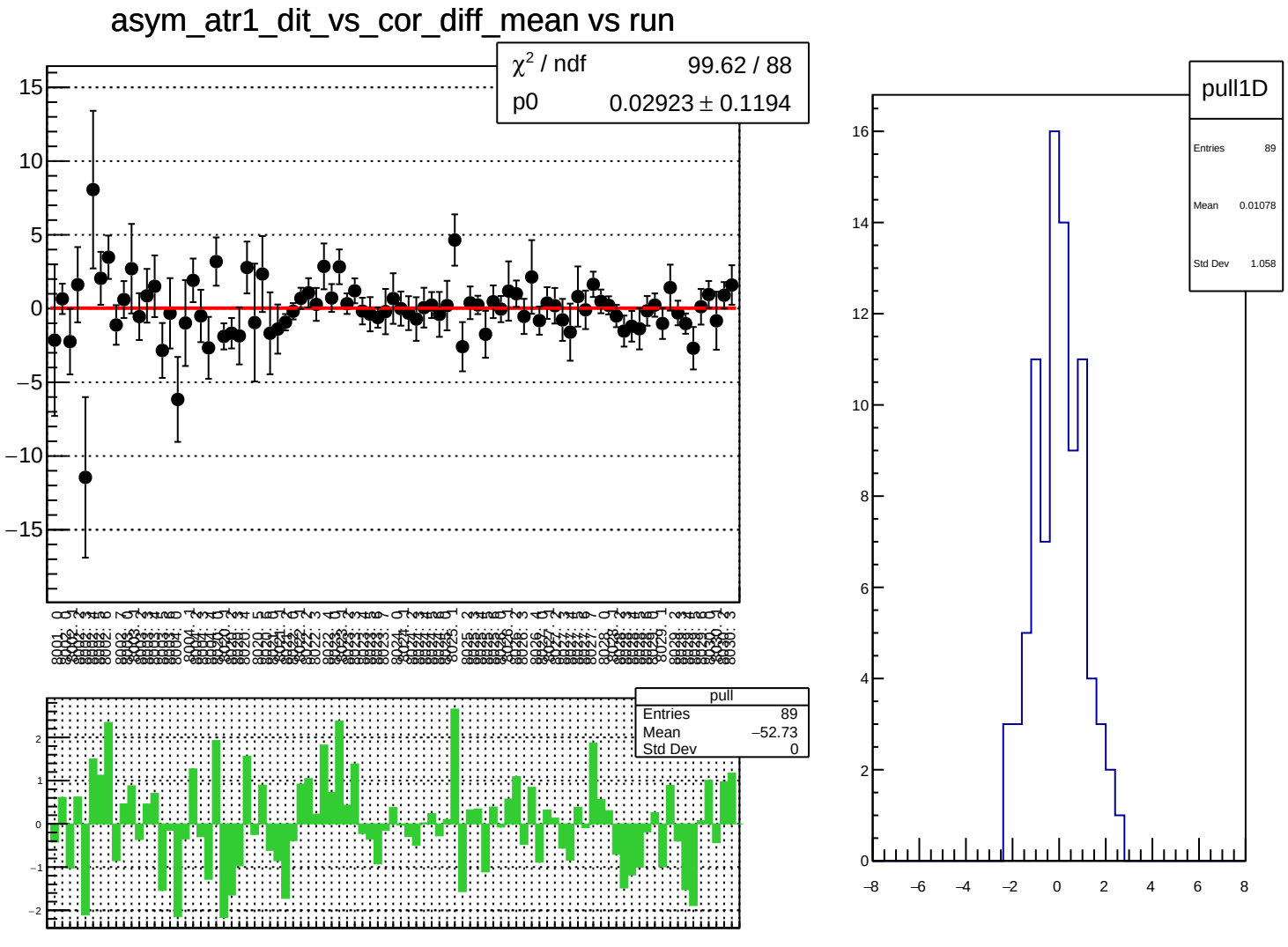

pull1D
Entries 89
Mean 0.02903
Std Dev 1.02
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

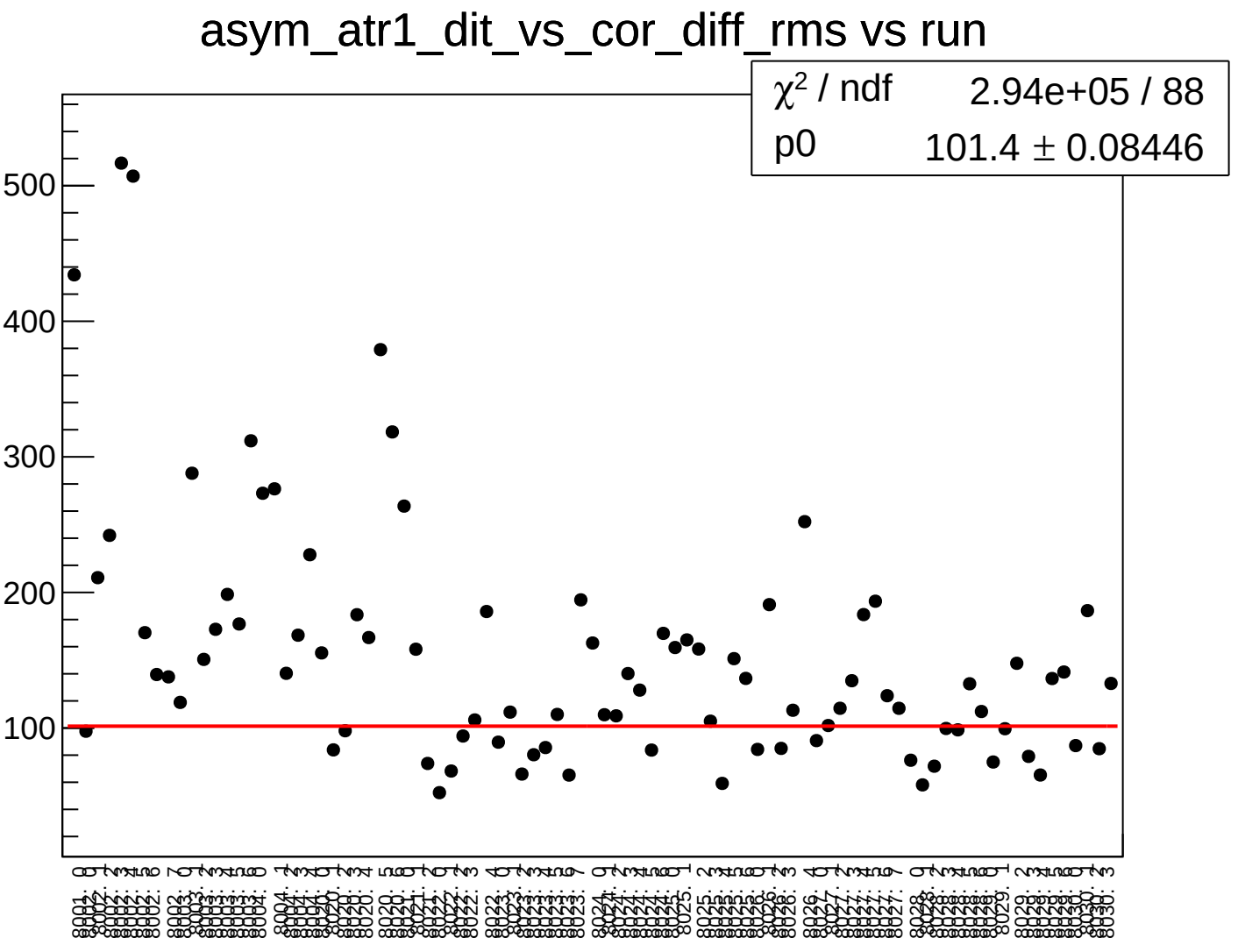

asym_atr1_rms vs run
χ^2 / ndf 1376 / 88
p0 3119 ± 2.369
3400
3300
3200
3100
3000
2900

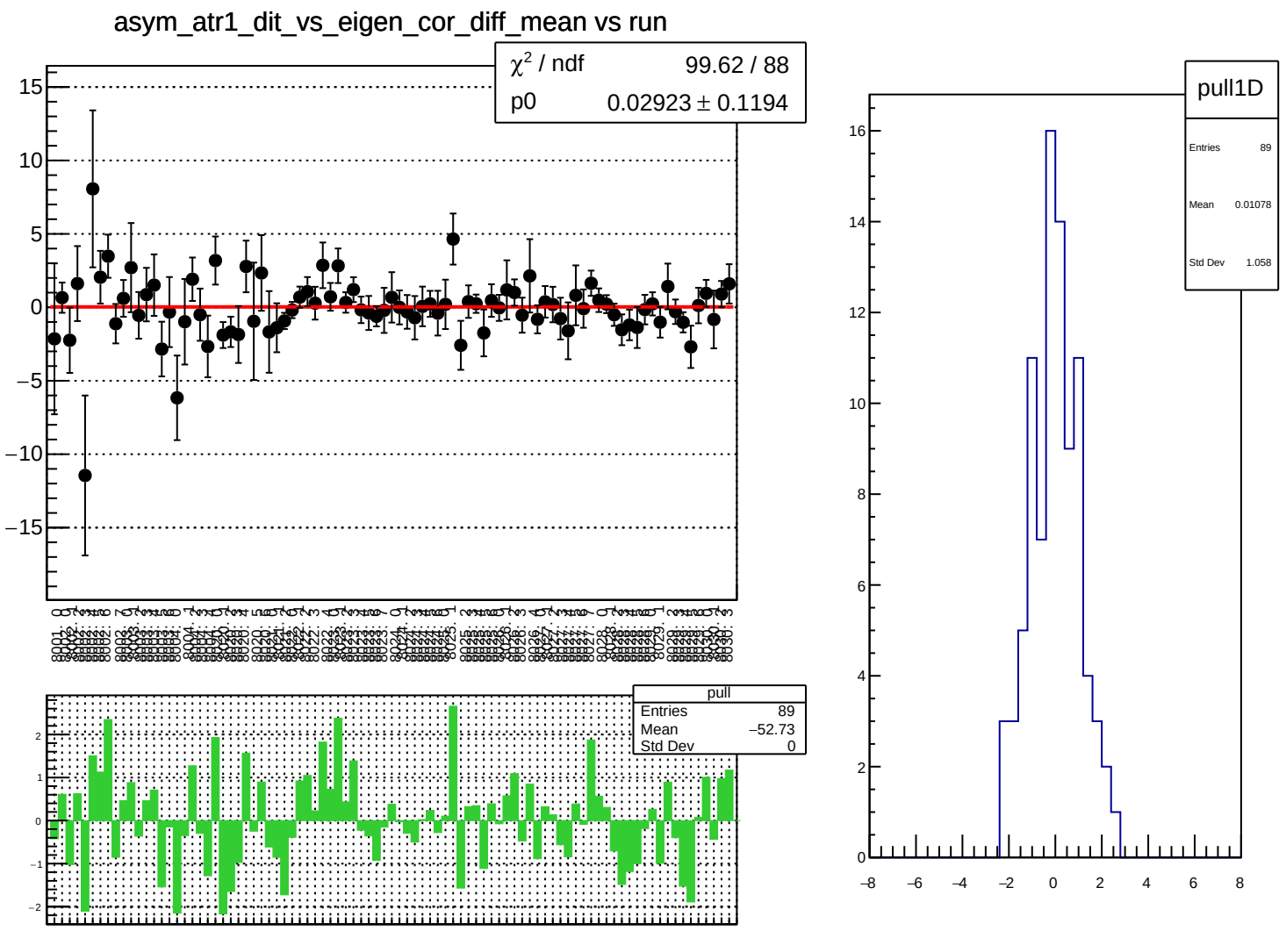

asym_atr1_reg_vs_cor_diff_mean vs run
χ² / ndf 94.18 / 88
p0 4.846e−13 ± 2.35e−13
pull
Entries 89
Mean 110.5
Std Dev 0

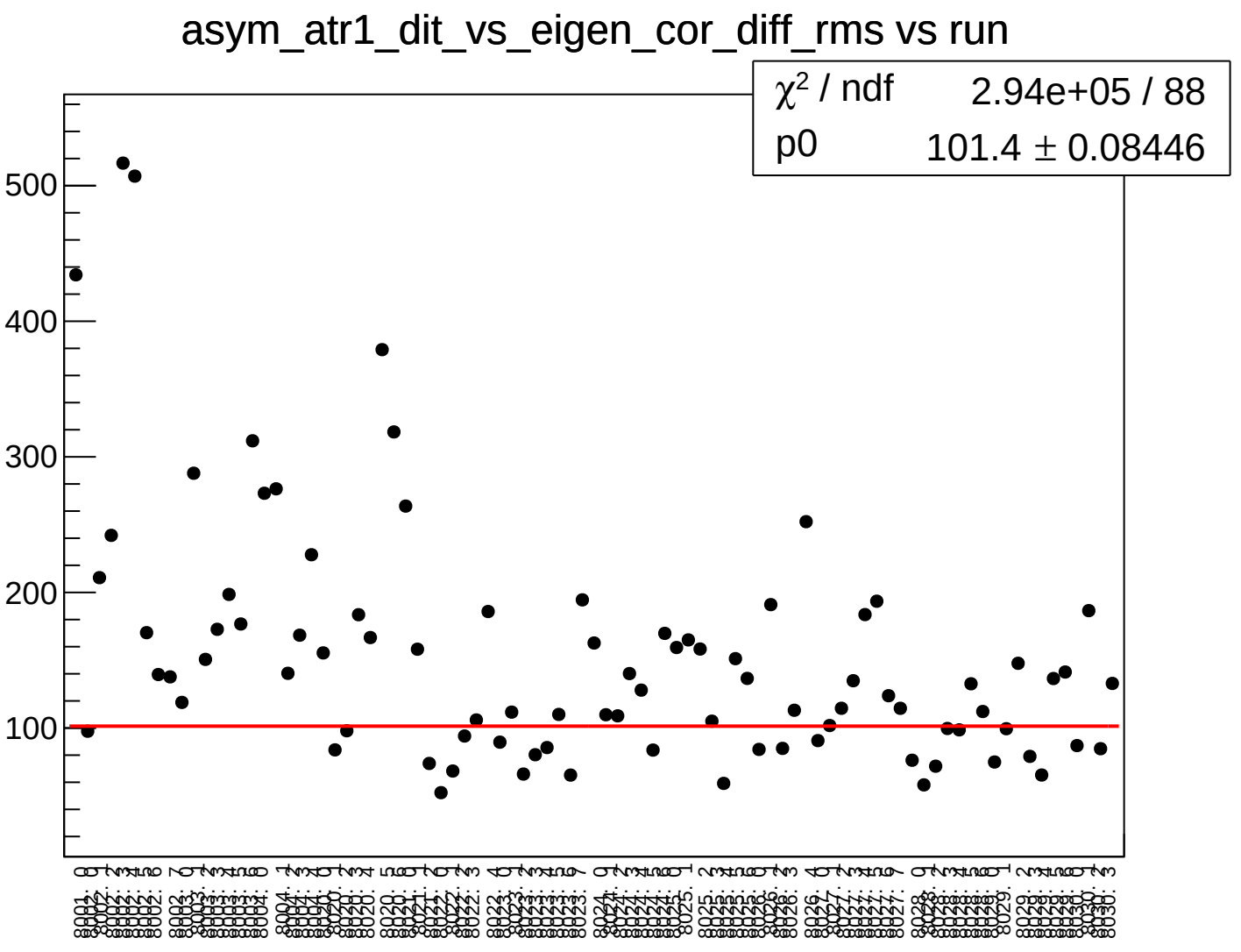

pull1D
Entries 89
Mean −0.05709
Std Dev 1.027

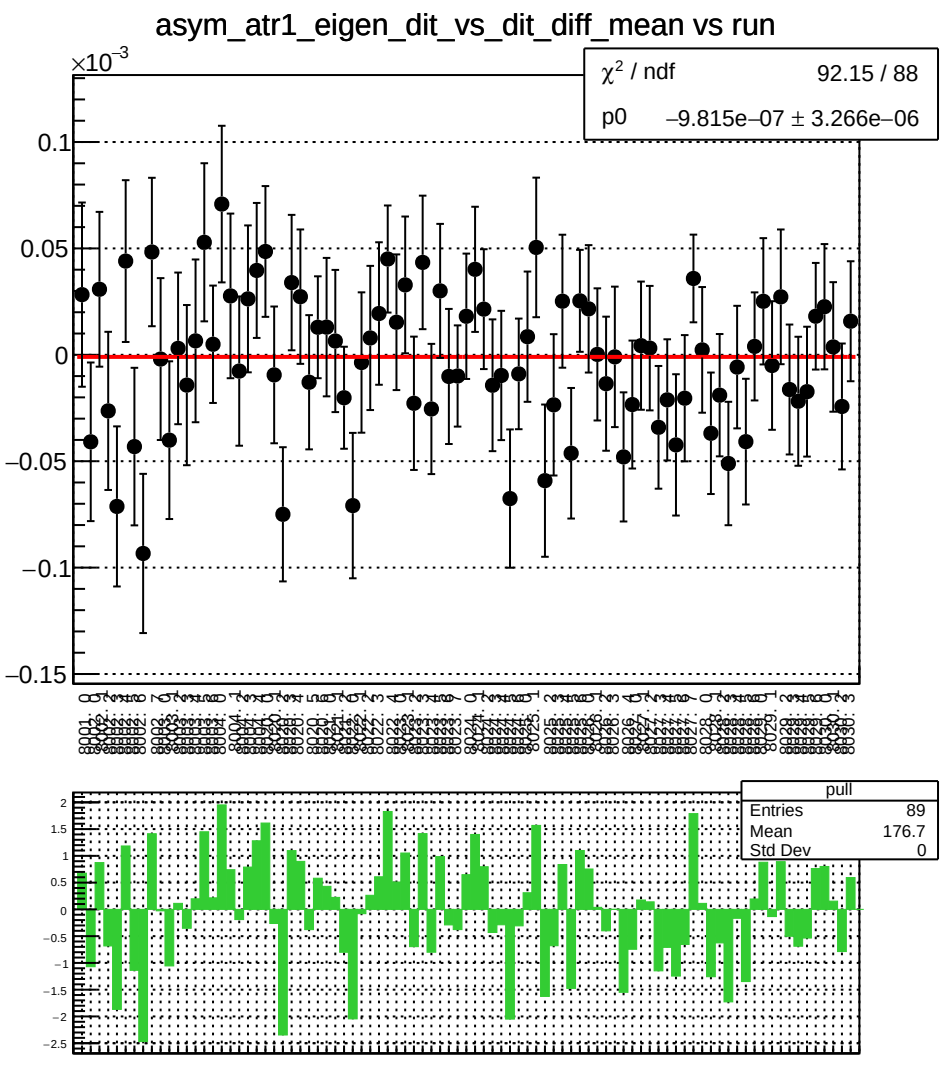

asym_atr1_reg_vs_cor_diff_rms vs run
χ² / ndf 9.324e+05 / 88
p0 1.489e−10 ± 1.662e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

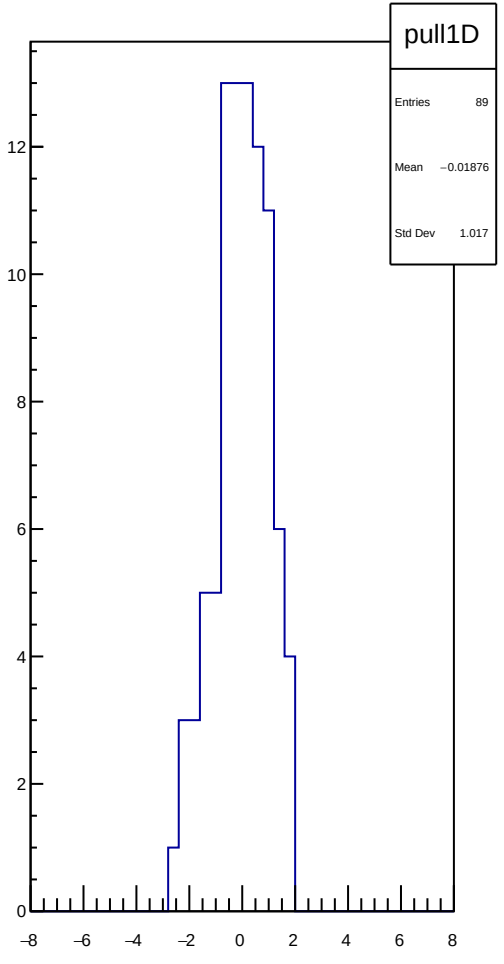

asym_atr1_dit_vs_cor_diff_mean vs run
χ² / ndf 99.62 / 88
p0 0.02923 ± 0.1194
pull
Entries 89
Mean −52.73
Std Dev 0
pull1D
Entries 89
Mean 0.01078
Std Dev 1.058

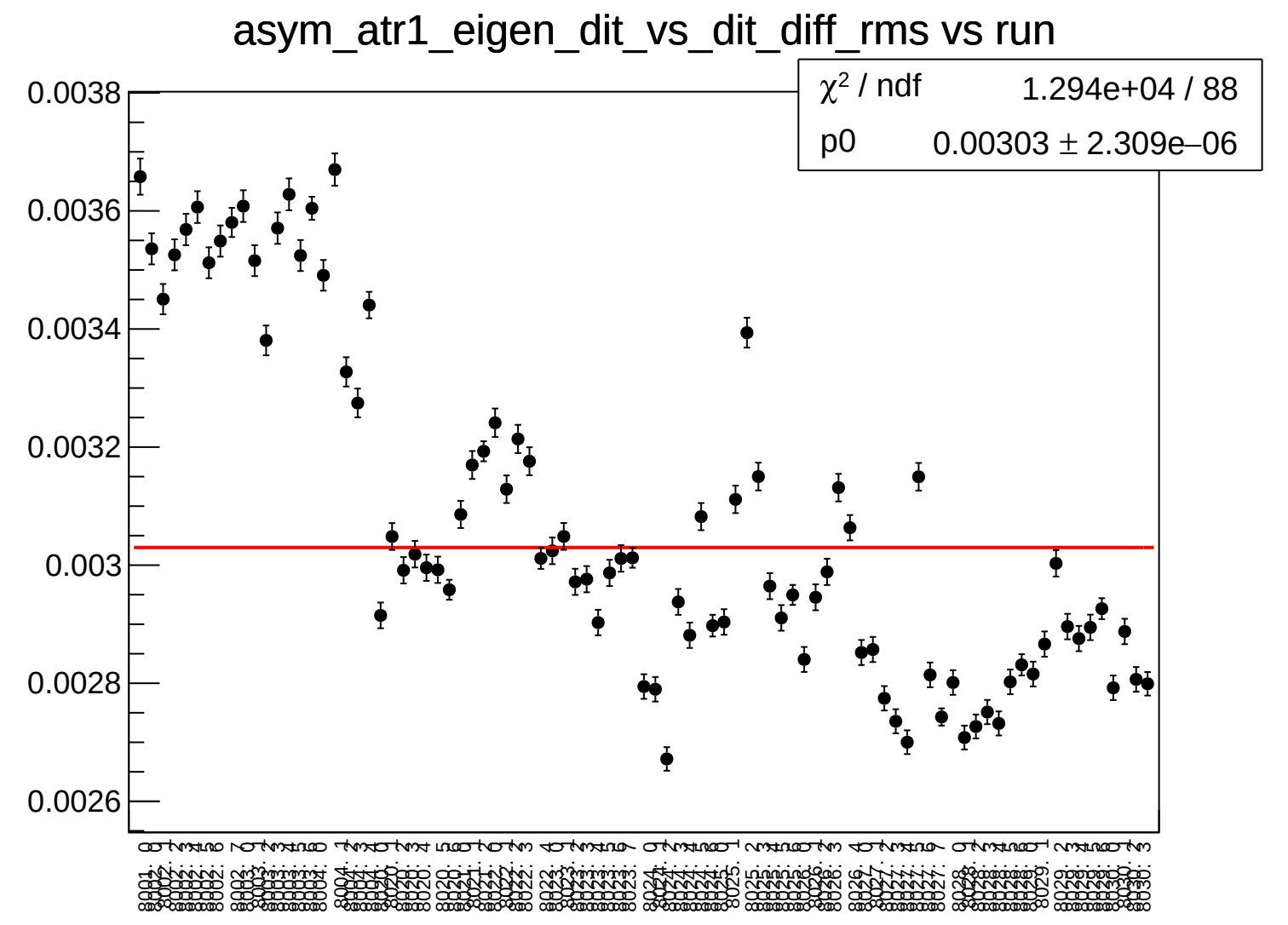

asym_atr1_dit_vs_cor_diff_rms vs run
χ² / ndf 2.94e+05 / 88
p0 101.4 ± 0.08446
500
400
300
200
100

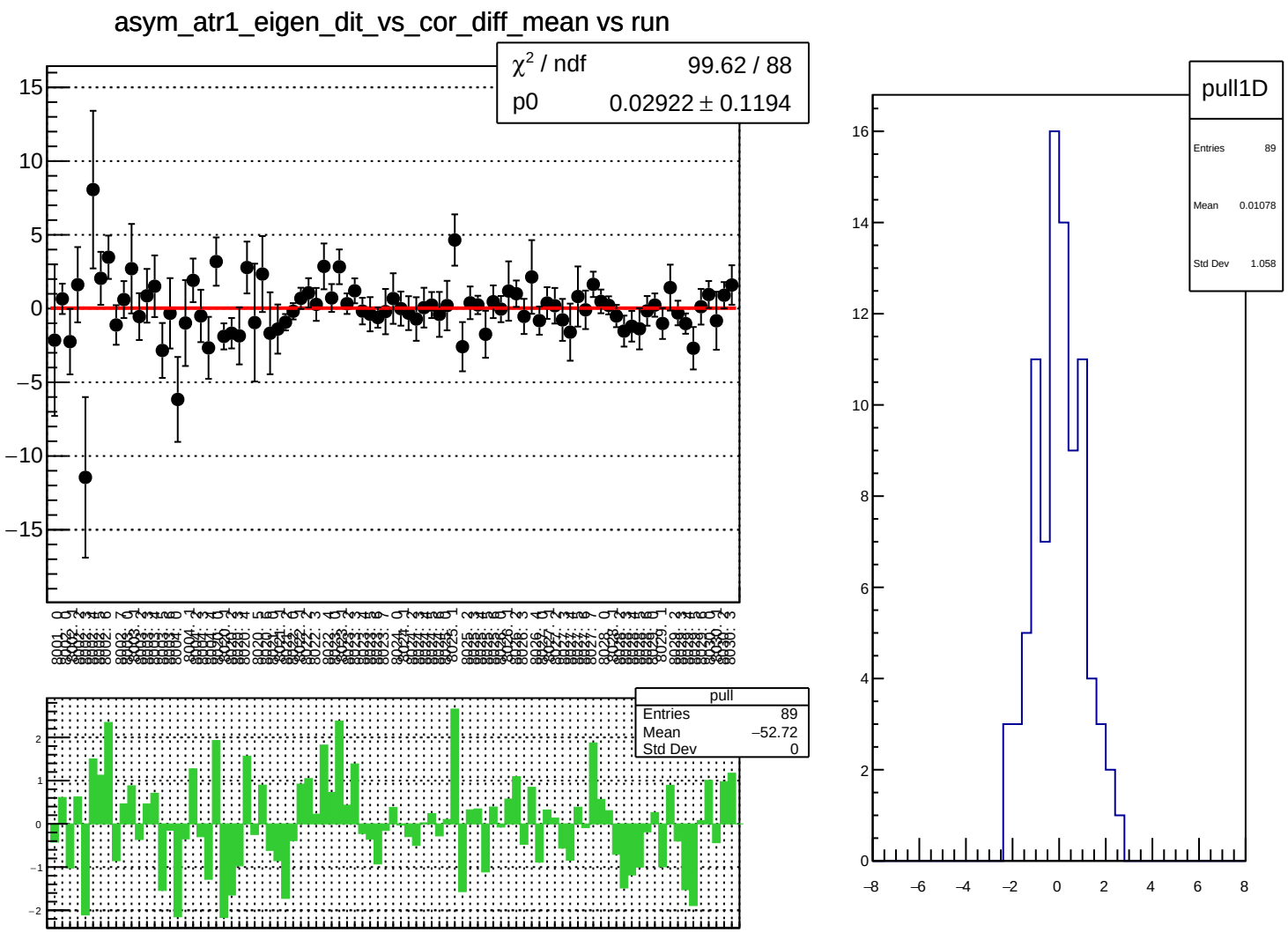

asym_atr1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.62 / 88
p0 0.02923 ± 0.1194
pull
Entries 89
Mean −52.73
Std Dev 0
pull1D
Entries 89
Mean 0.01078
Std Dev 1.058

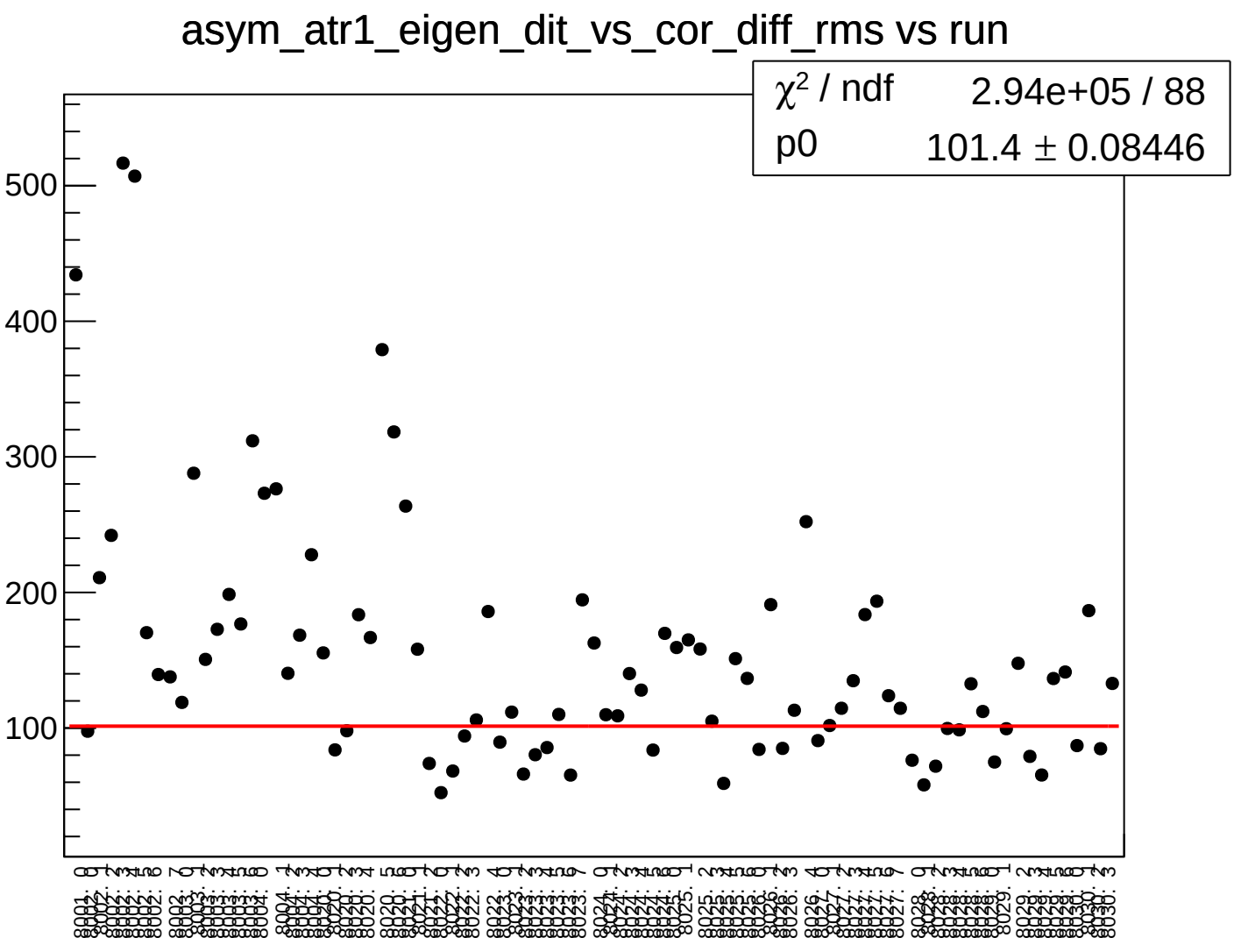

asym_atr1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.94e+05 / 88
p0 101.4 ± 0.08446
500
400
300
200
100

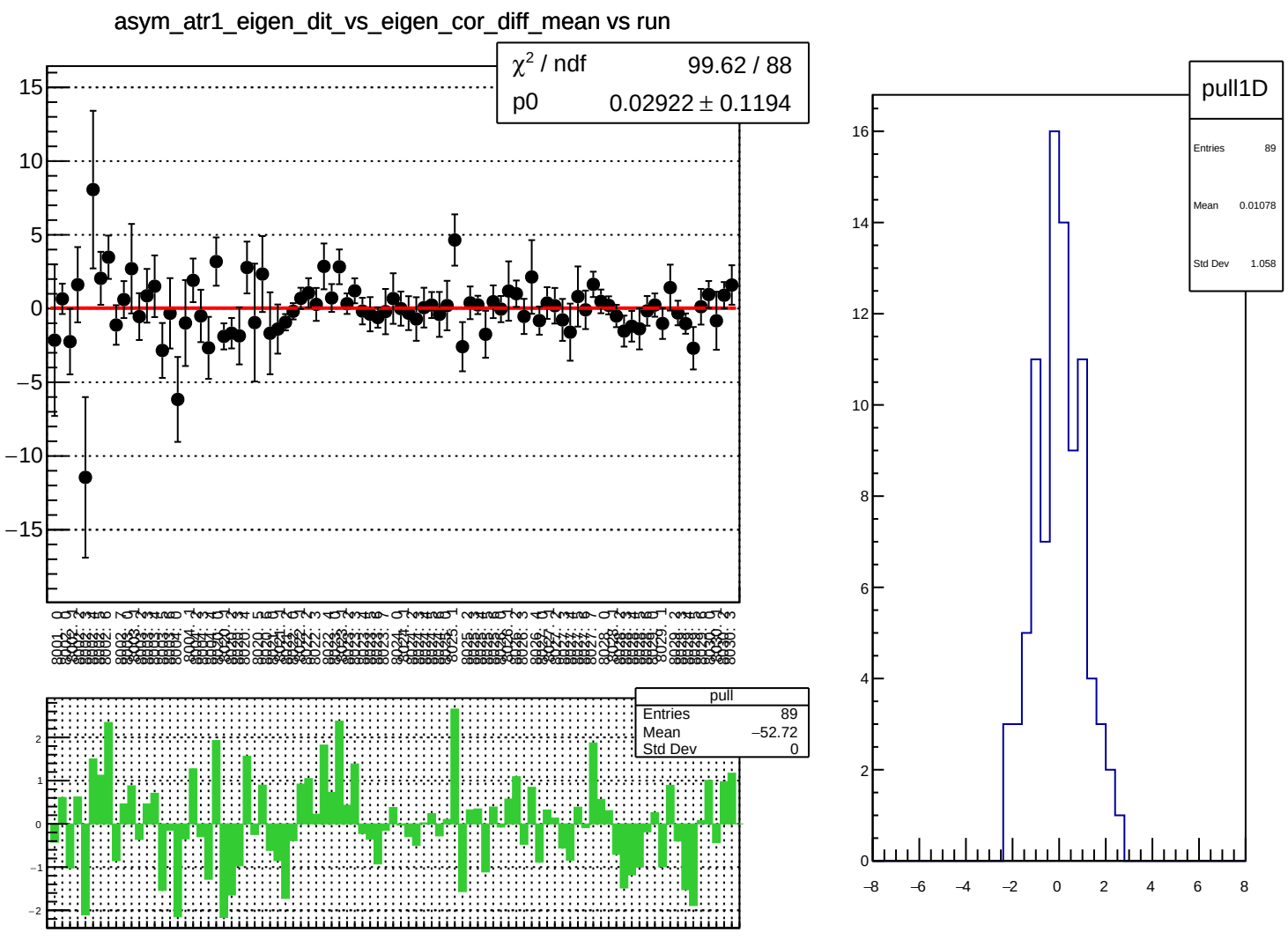

asym_atr1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.15 / 88
p0 −9.815e−07 ± 3.266e−06
pull
Entries 89
Mean 176.7
Std Dev 0

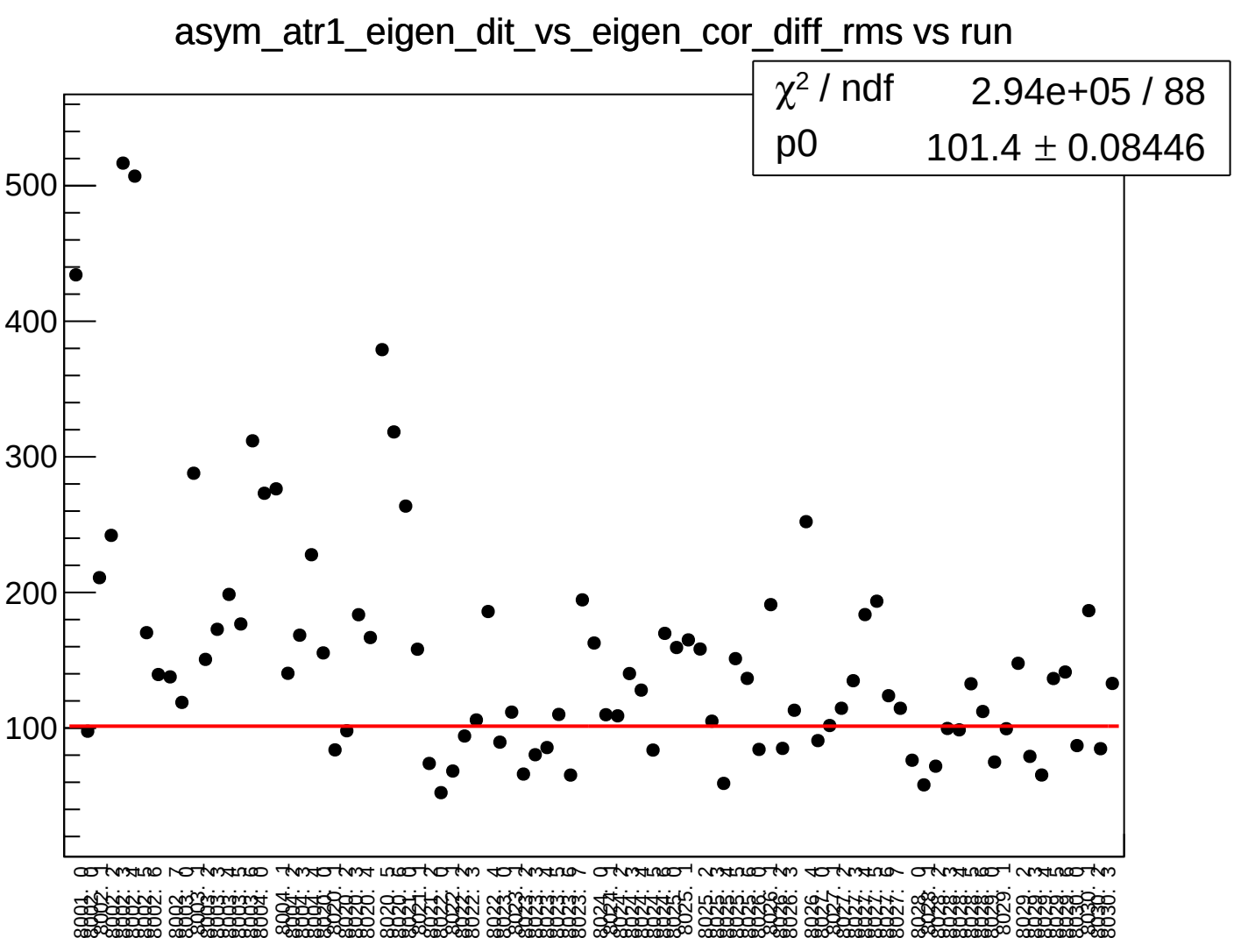

pull1D
Entries 89
Mean −0.01876
Std Dev 1.017

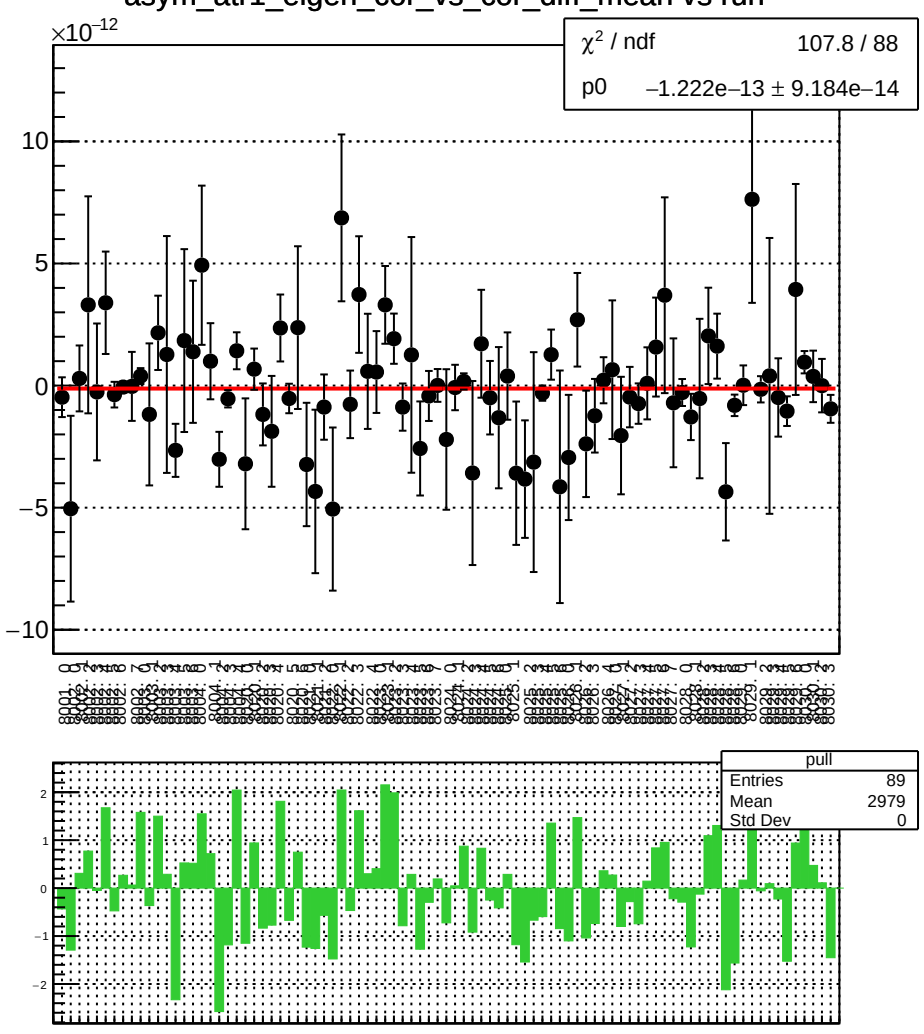

asym_atr1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.294e+04 / 88
p0 0.00303 ± 2.309e–06
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026

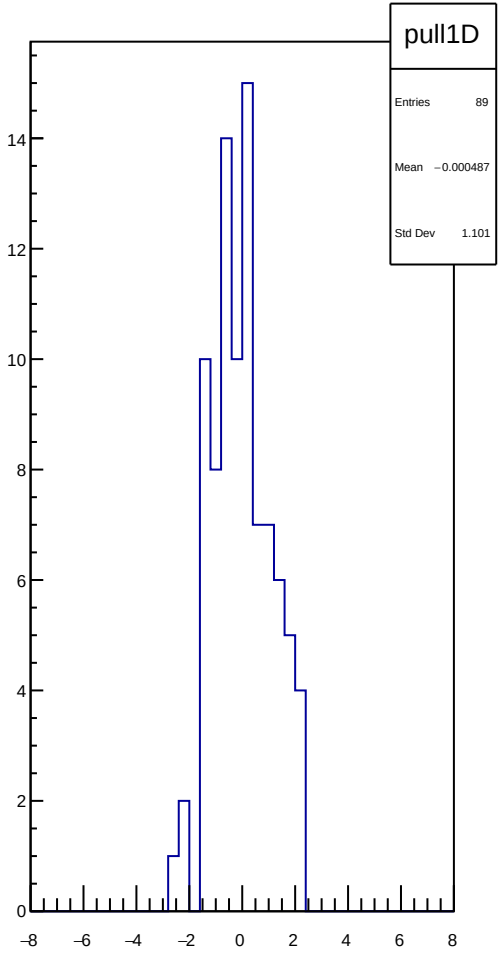

asym_atr1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 99.62 / 88
p0 0.02922 ± 0.1194
pull
Entries 89
Mean −52.72
Std Dev 0
pull1D
Entries 89
Mean 0.01078
Std Dev 1.058

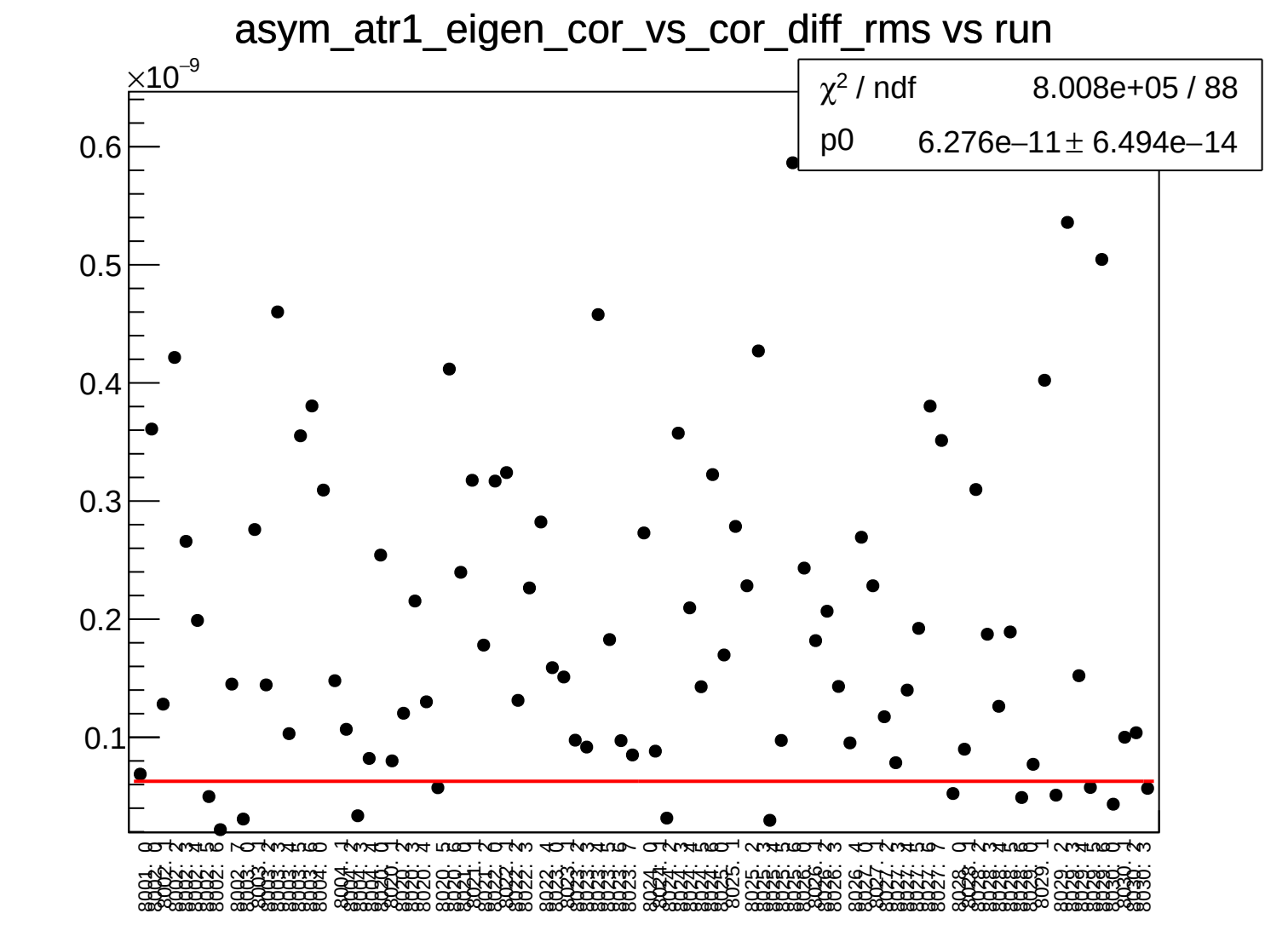

asym_atr1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.94e+05 / 88
p0 101.4 ± 0.08446
500
400
300
200
100

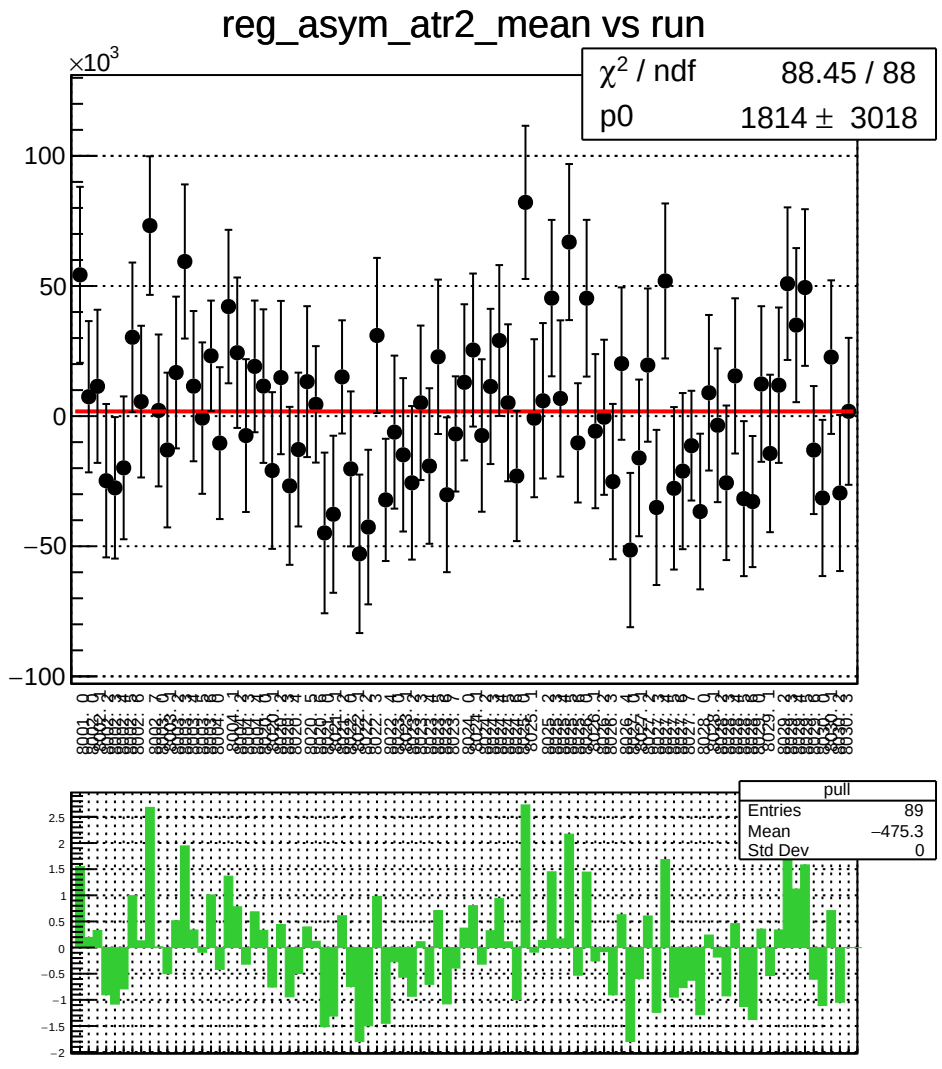

asym_atr1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.62 / 88
p0 0.02922 ± 0.1194
pull
Entries 89
Mean −52.72
Std Dev 0
pull1D
Entries 89
Mean 0.01078
Std Dev 1.058

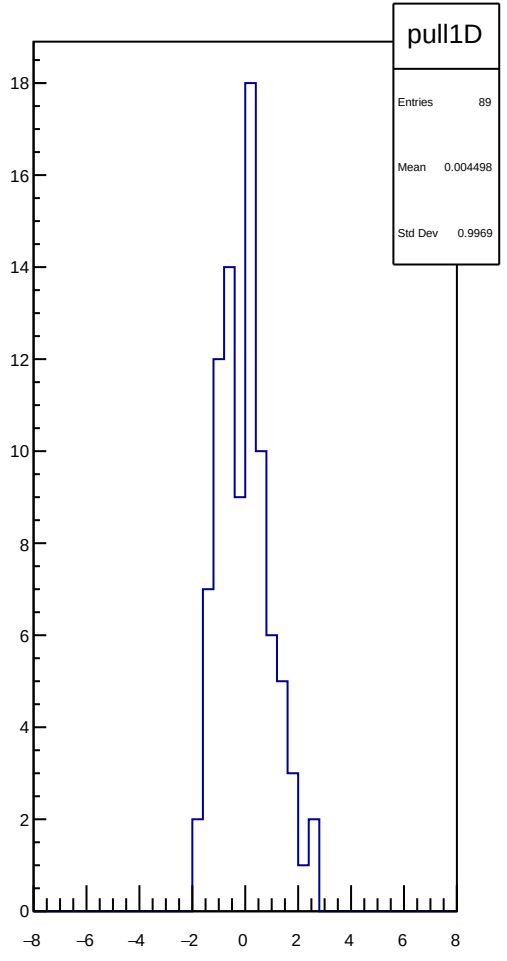

asym_atr1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.94e+05 / 88
p0 101.4 ± 0.08446
500
400
300
200
100

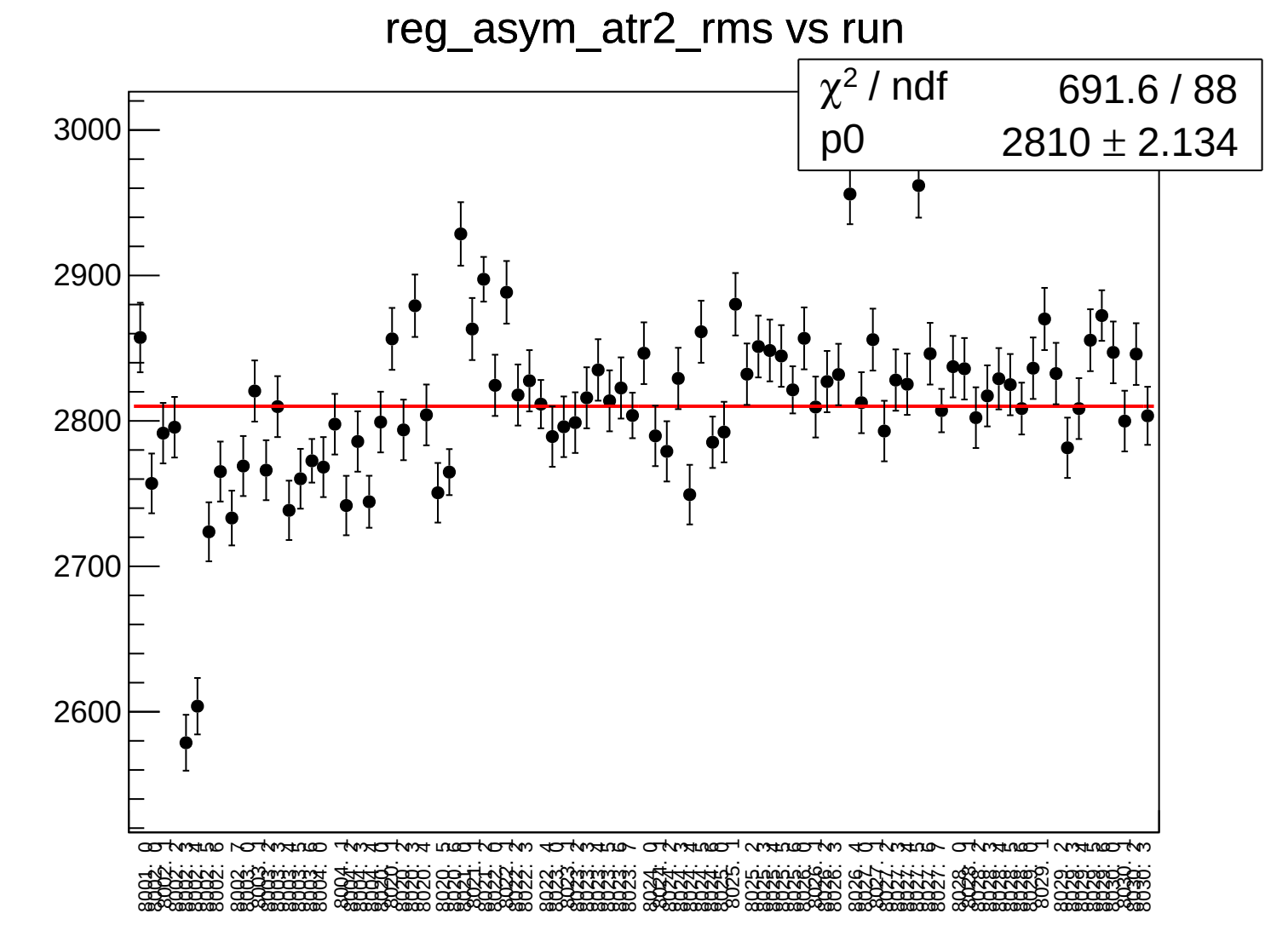

asym_atr1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 107.8 / 88
p0 −1.222e−13 ± 9.184e−14
10
5
0
−5
−10
pull
Entries 89
Mean 2979
Std Dev 0
2
1
0
−1
−2

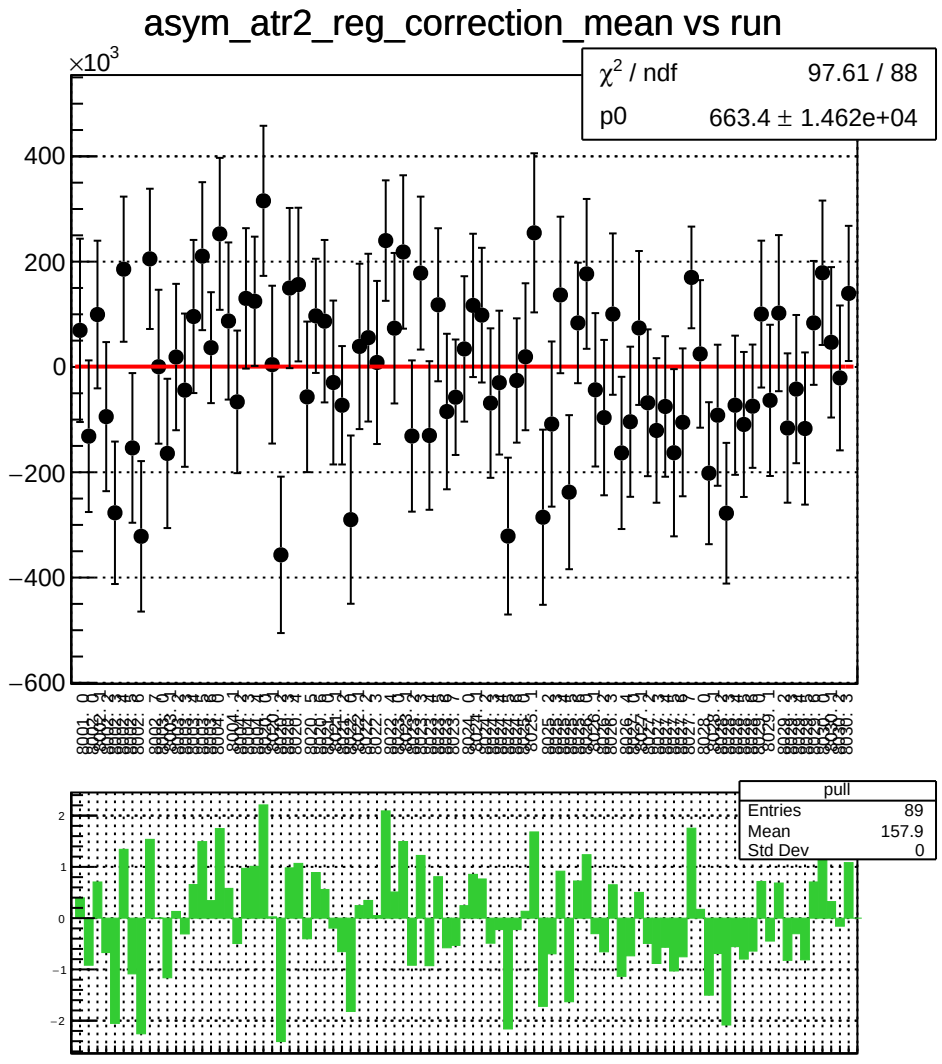

pull1D
Entries 89
Mean −0.000487
Std Dev 1.101
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

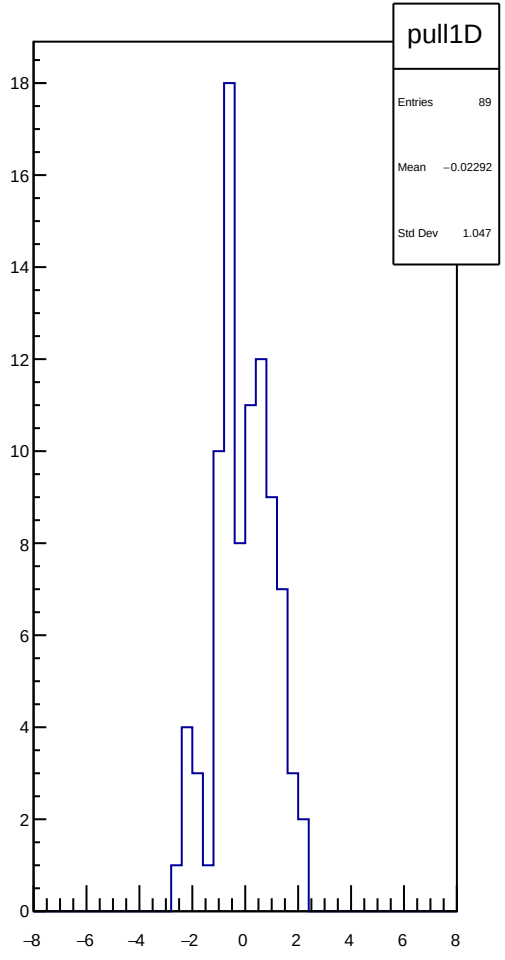

asym_atr1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.008e+05 / 88
p0 6.276e−11 ± 6.494e−14
0.6
0.5
0.4
0.3
0.2
0.1

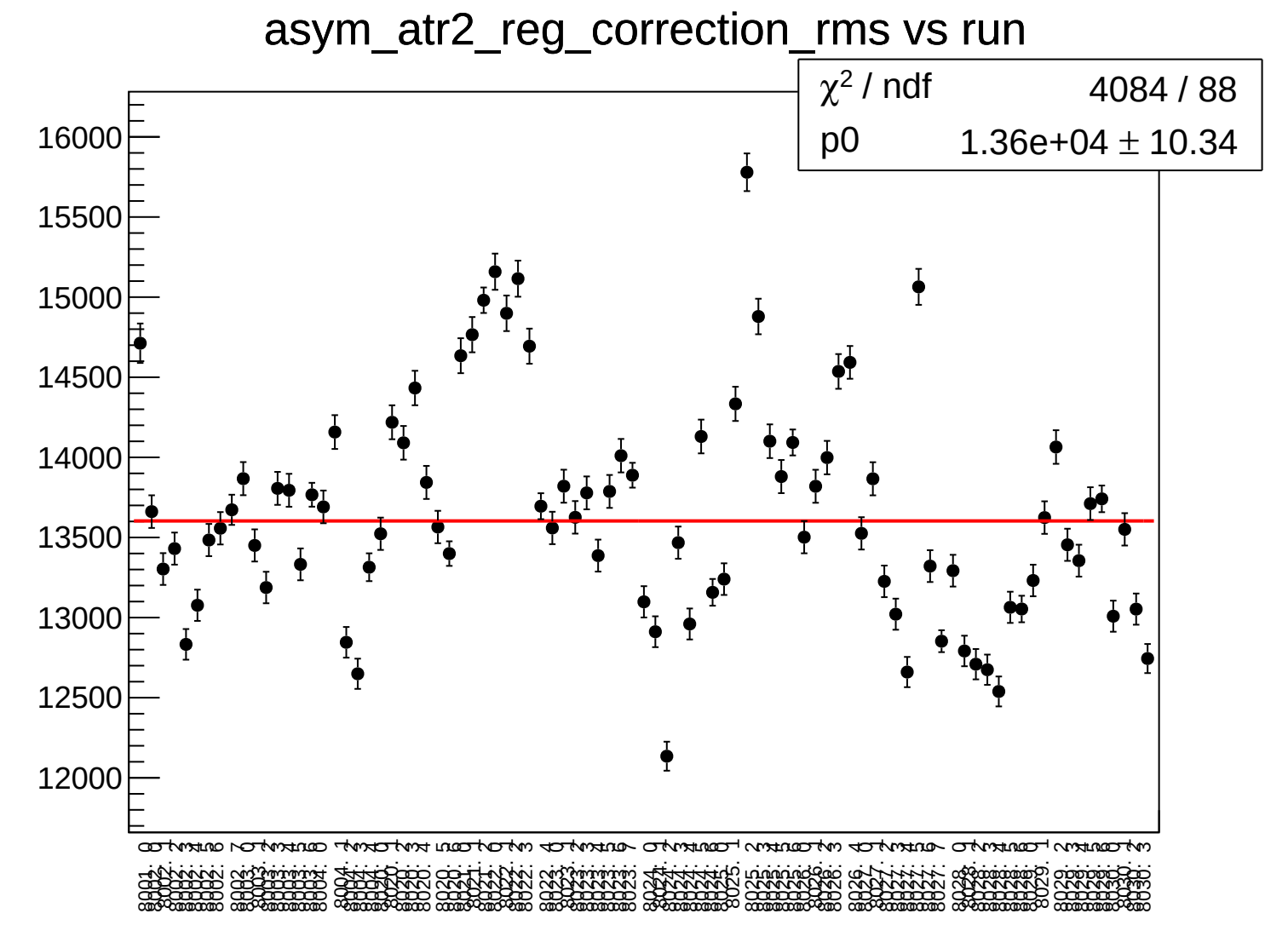

reg_asym_atr2_mean vs run
×10^3
χ² / ndf 88.45 / 88
p0 1814 ± 3018
100
50
0
−50
−100
pull
Entries 89
Mean −475.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

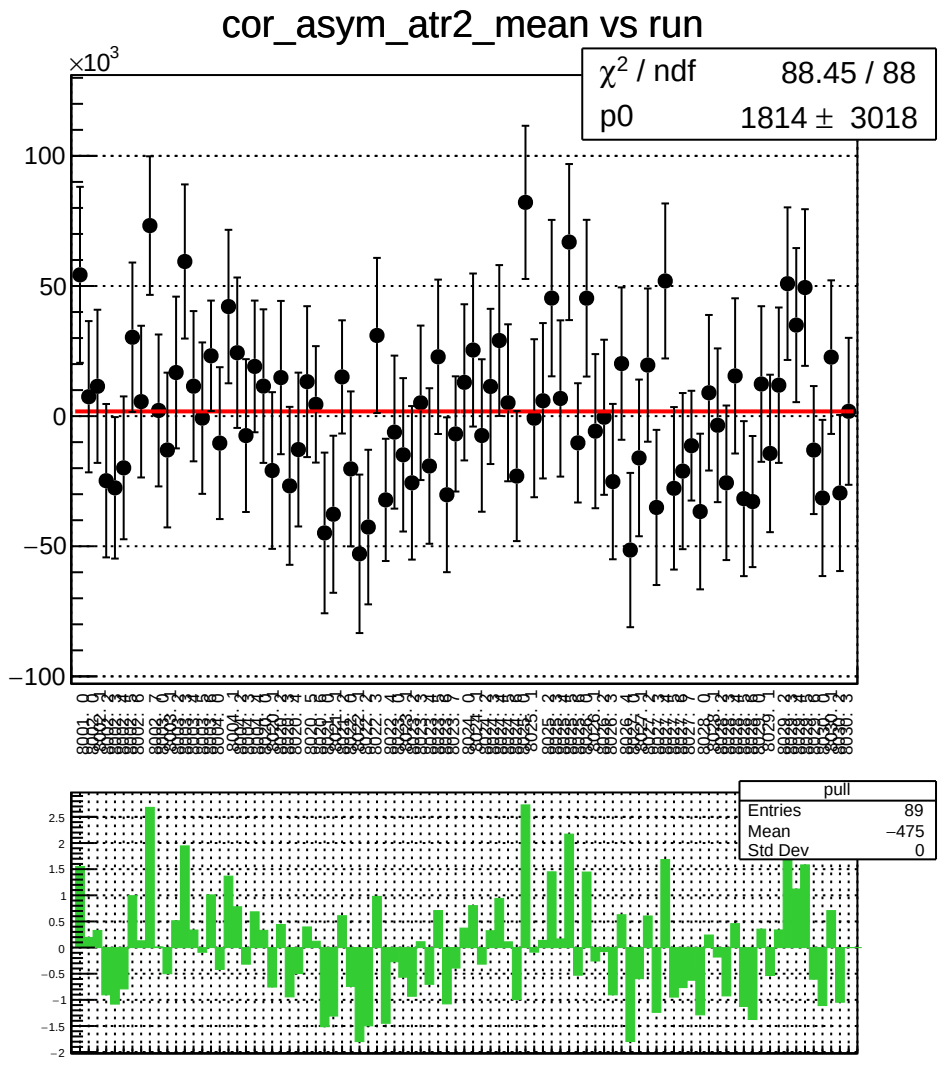

pull1D
Entries 89
Mean 0.004498
Std Dev 0.9969
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

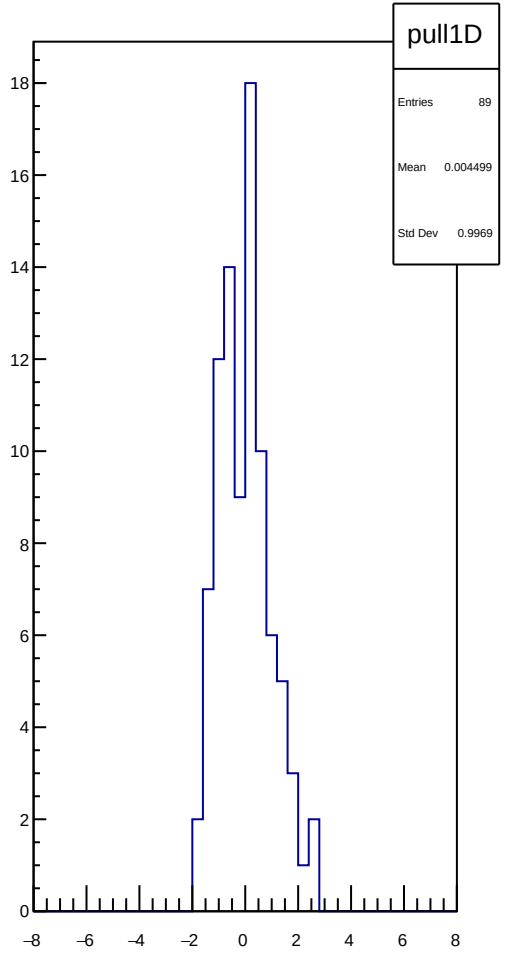

reg_asym_atr2_rms vs run
χ² / ndf 691.6 / 88
p0 2810 ± 2.134
3000
2900
2800
2700
2600

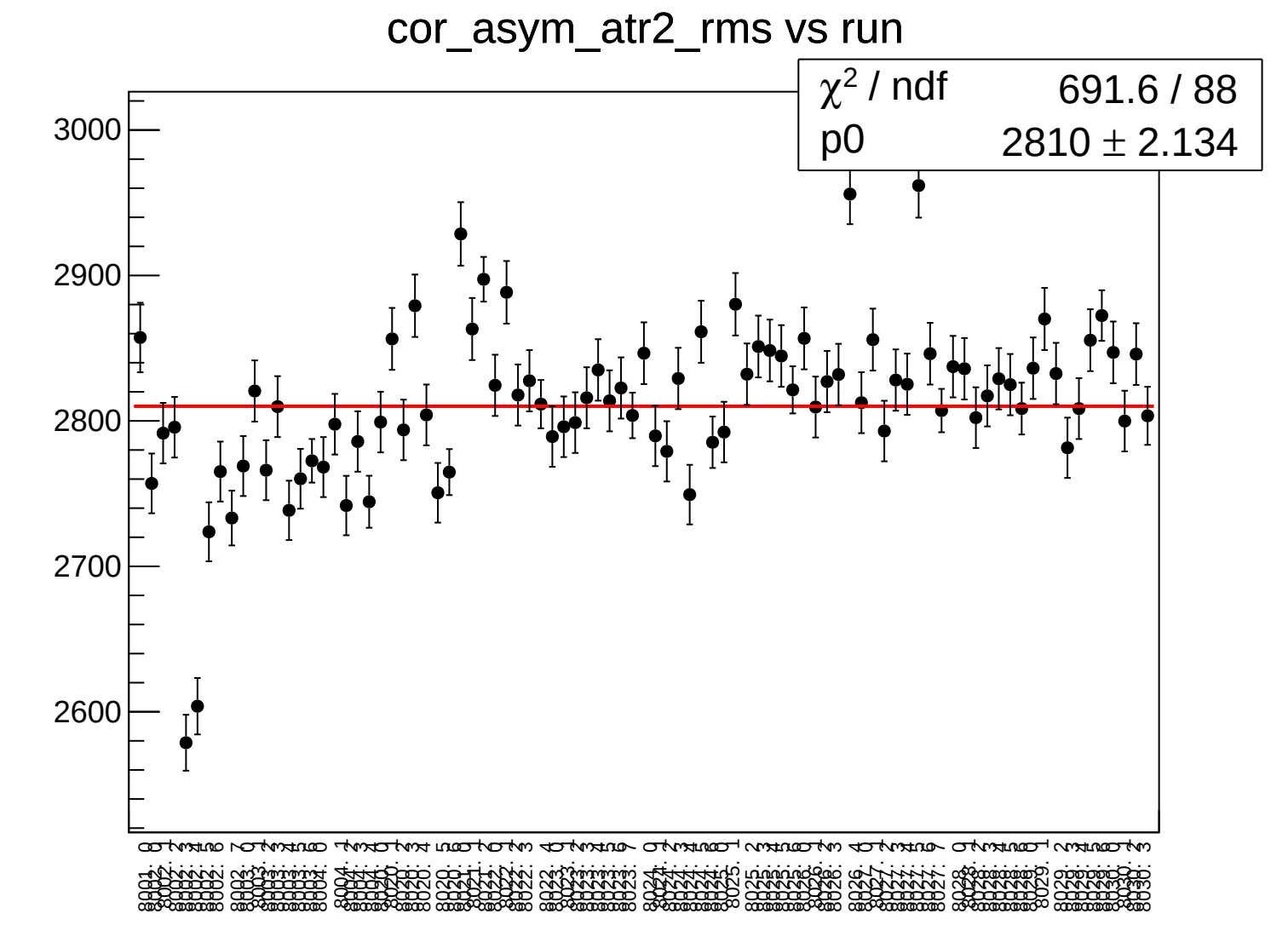

asym_atr2_reg_correction_mean vs run
×10^3
χ² / ndf 97.61 / 88
p0 663.4 ± 1.462e+04
400
200
0
−200
−400
−600
pull
Entries 89
Mean 157.9
Std Dev 0
2
1
0
−1
−2

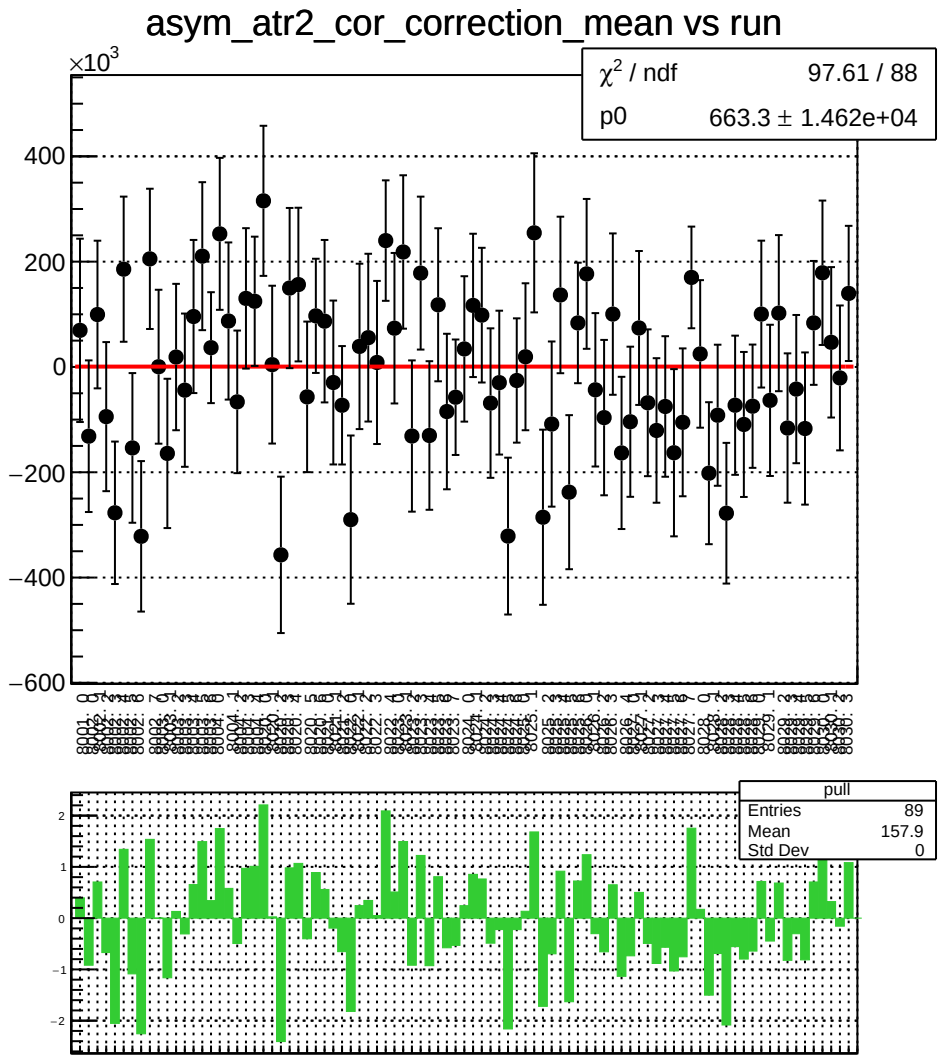

pull1D
Entries 89
Mean −0.02292
Std Dev 1.047
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

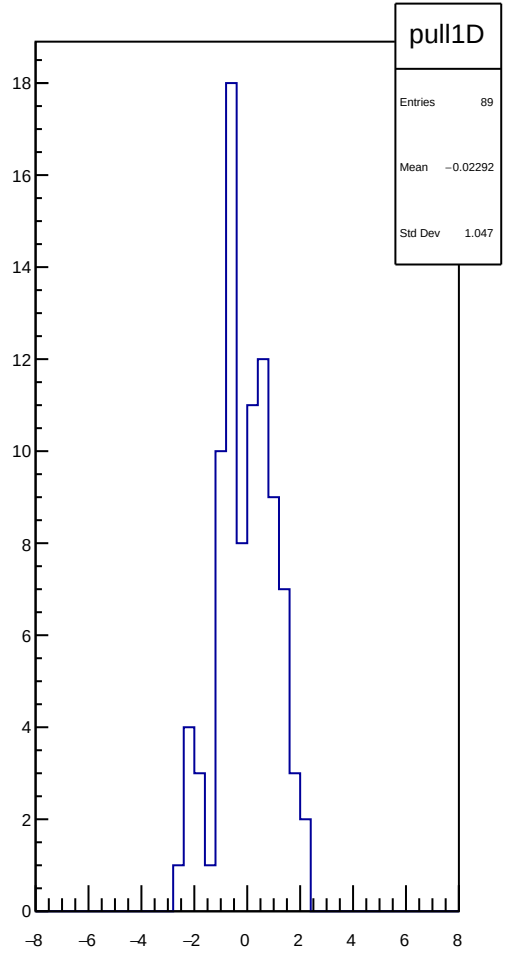

asym_atr2_reg_correction_rms vs run
χ² / ndf 4084 / 88
p0 1.36e+04 ± 10.34
16000
15500
15000
14500
14000
13500
13000
12500
12000

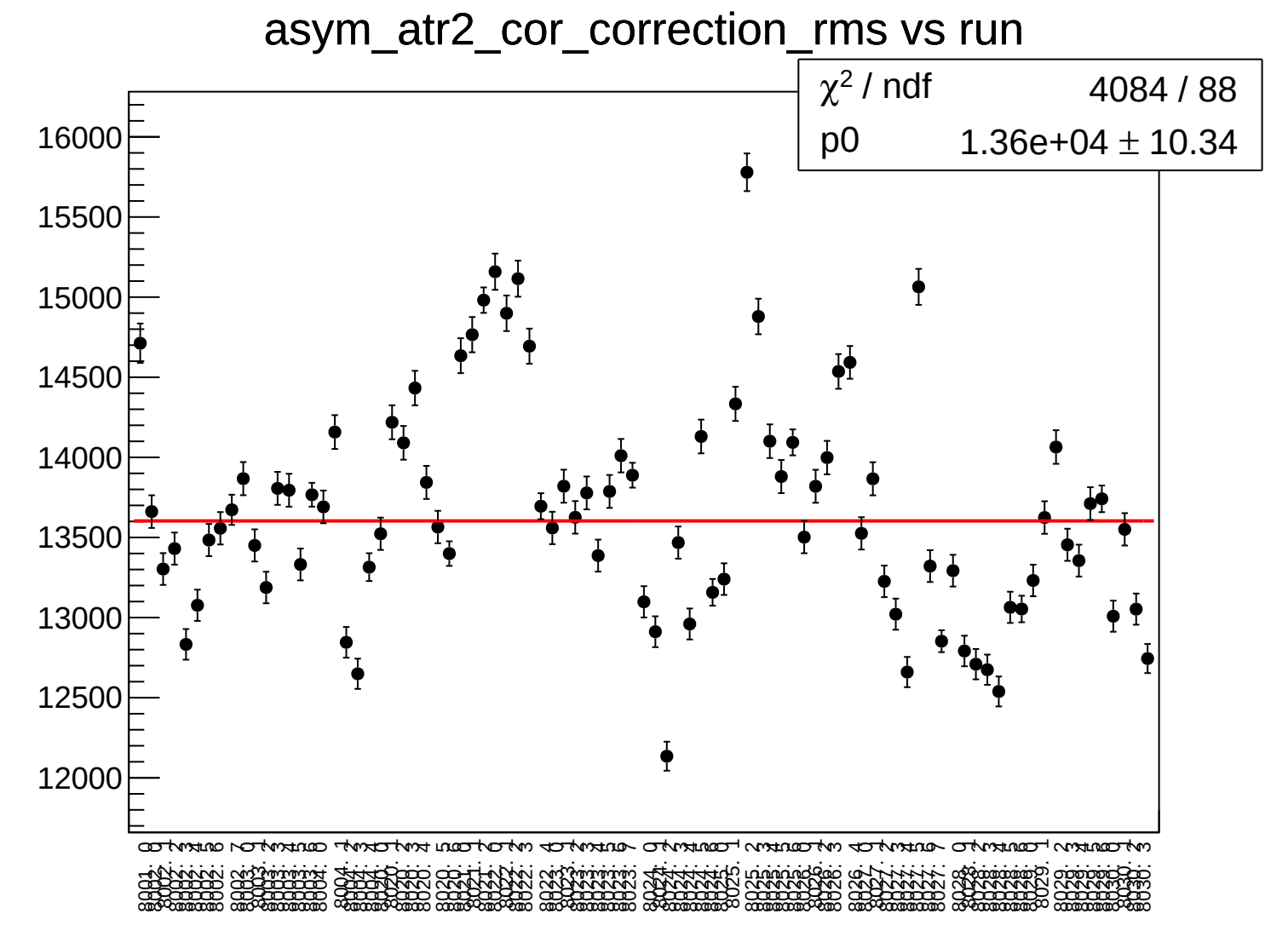

cor_asym_atr2_mean vs run
×10^3
χ^2 / ndf 88.45 / 88
p0 1814 ± 3018
100
50
0
−50
−100
pull
Entries 89
Mean −475
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

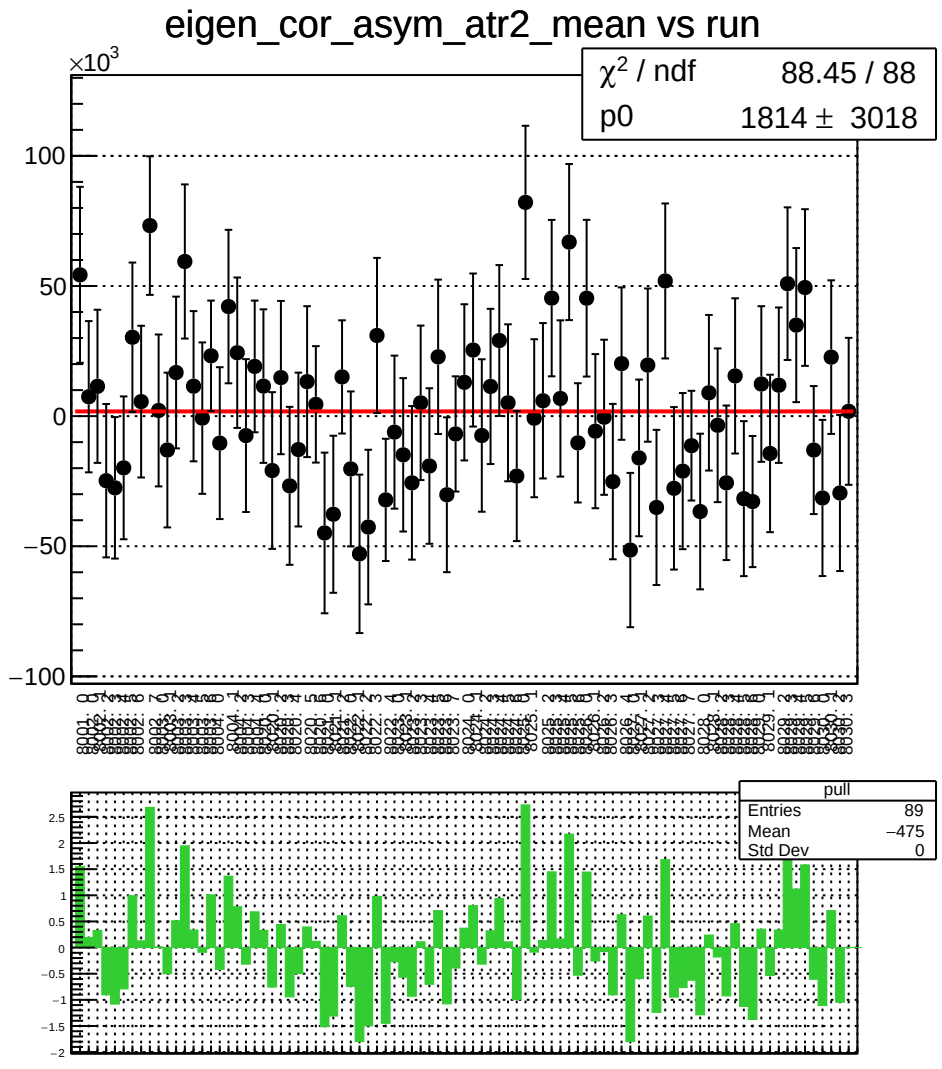

pull1D
Entries 89
Mean 0.004499
Std Dev 0.9969
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

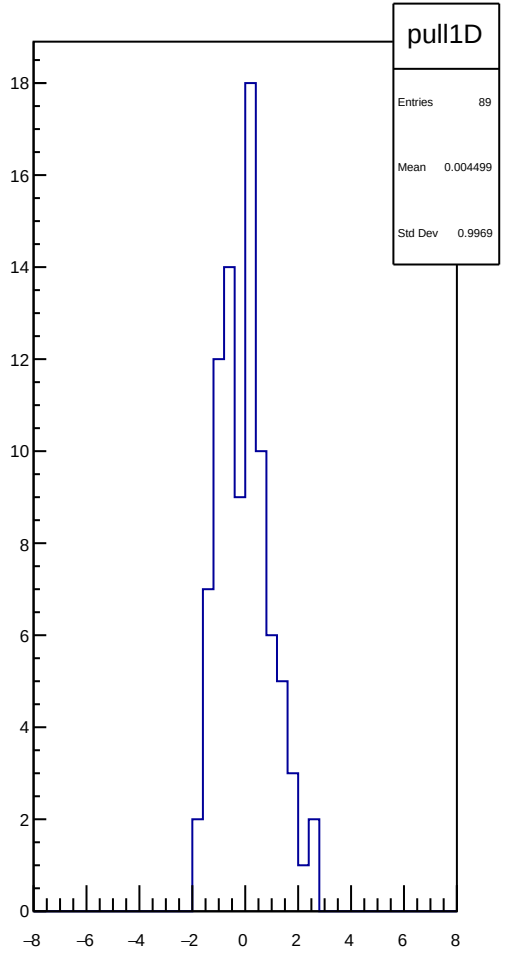

cor_asym_atr2_rms vs run
χ² / ndf 691.6 / 88
p0 2810 ± 2.134
3000
2900
2800
2700
2600

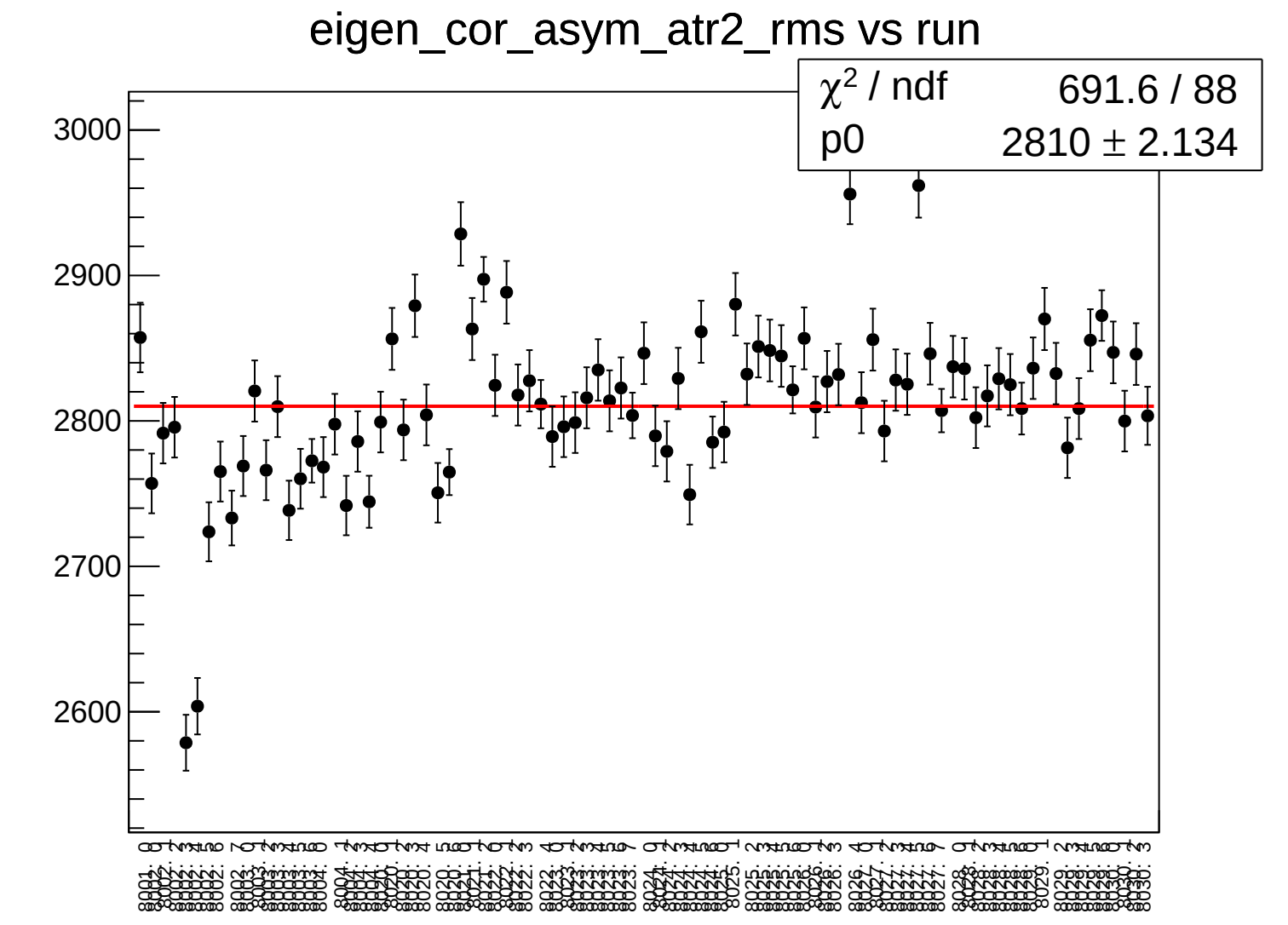

asym_atr2_cor_correction_mean vs run
×10^3
χ² / ndf 97.61 / 88
p0 663.3 ± 1.462e+04
400
200
0
−200
−400
−600
pull
Entries 89
Mean 157.9
Std Dev 0
2
1
0
−1
−2

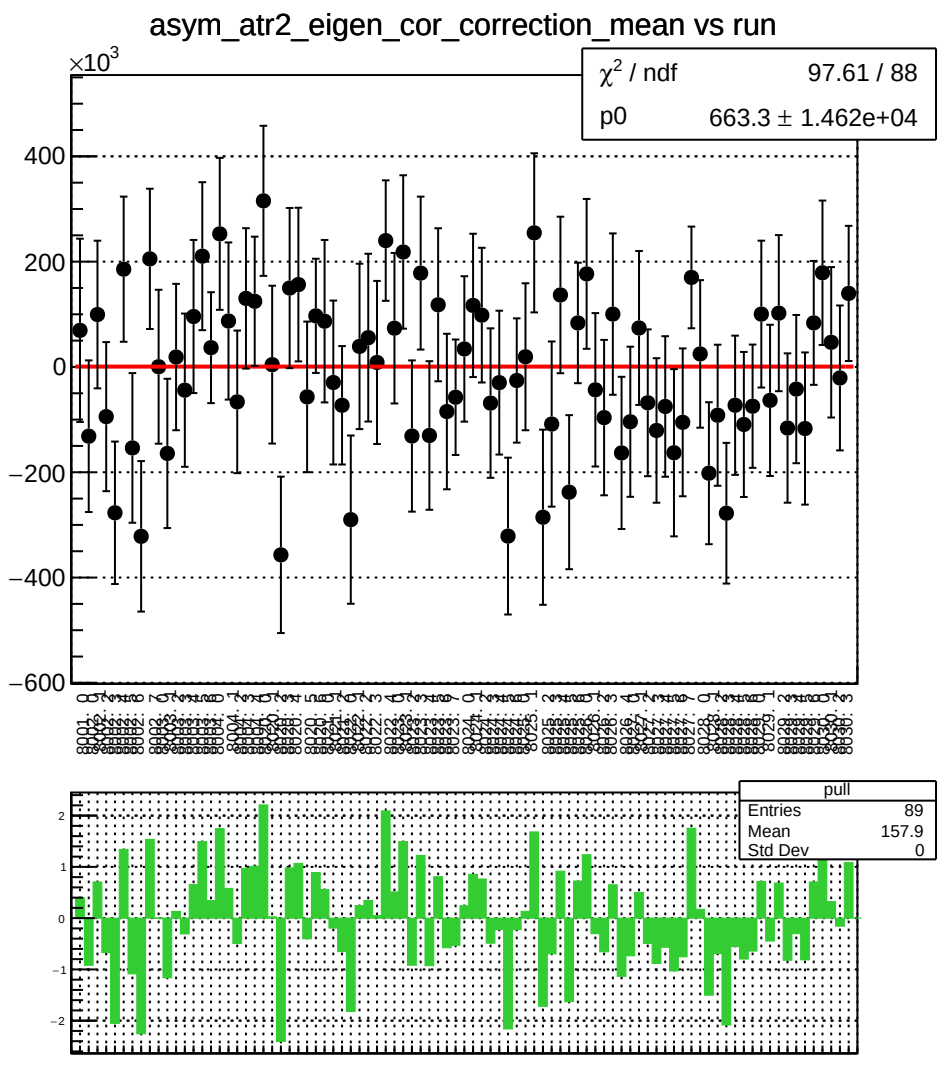

pull1D
Entries 89
Mean −0.02292
Std Dev 1.047
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

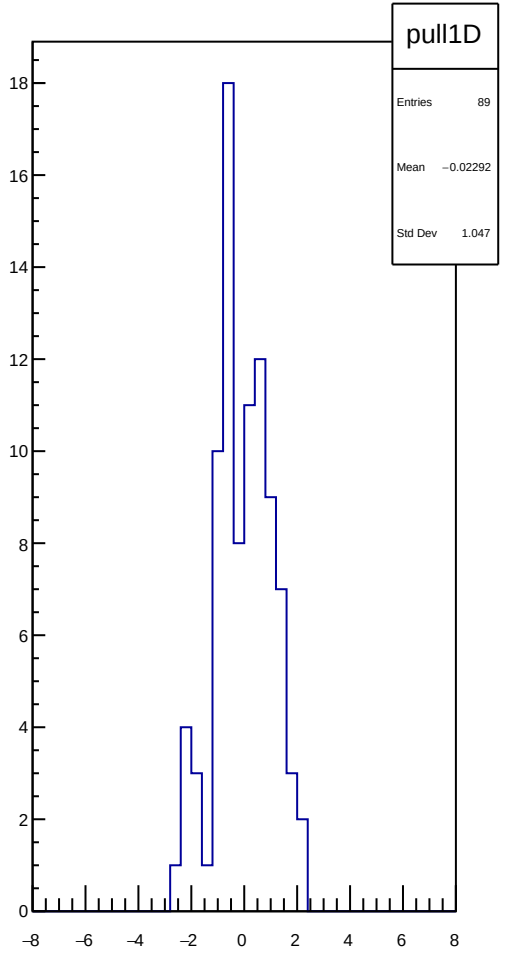

asym_atr2_cor_correction_rms vs run
χ² / ndf 4084 / 88
p0 1.36e+04 ± 10.34
16000
15500
15000
14500
14000
13500
13000
12500
12000

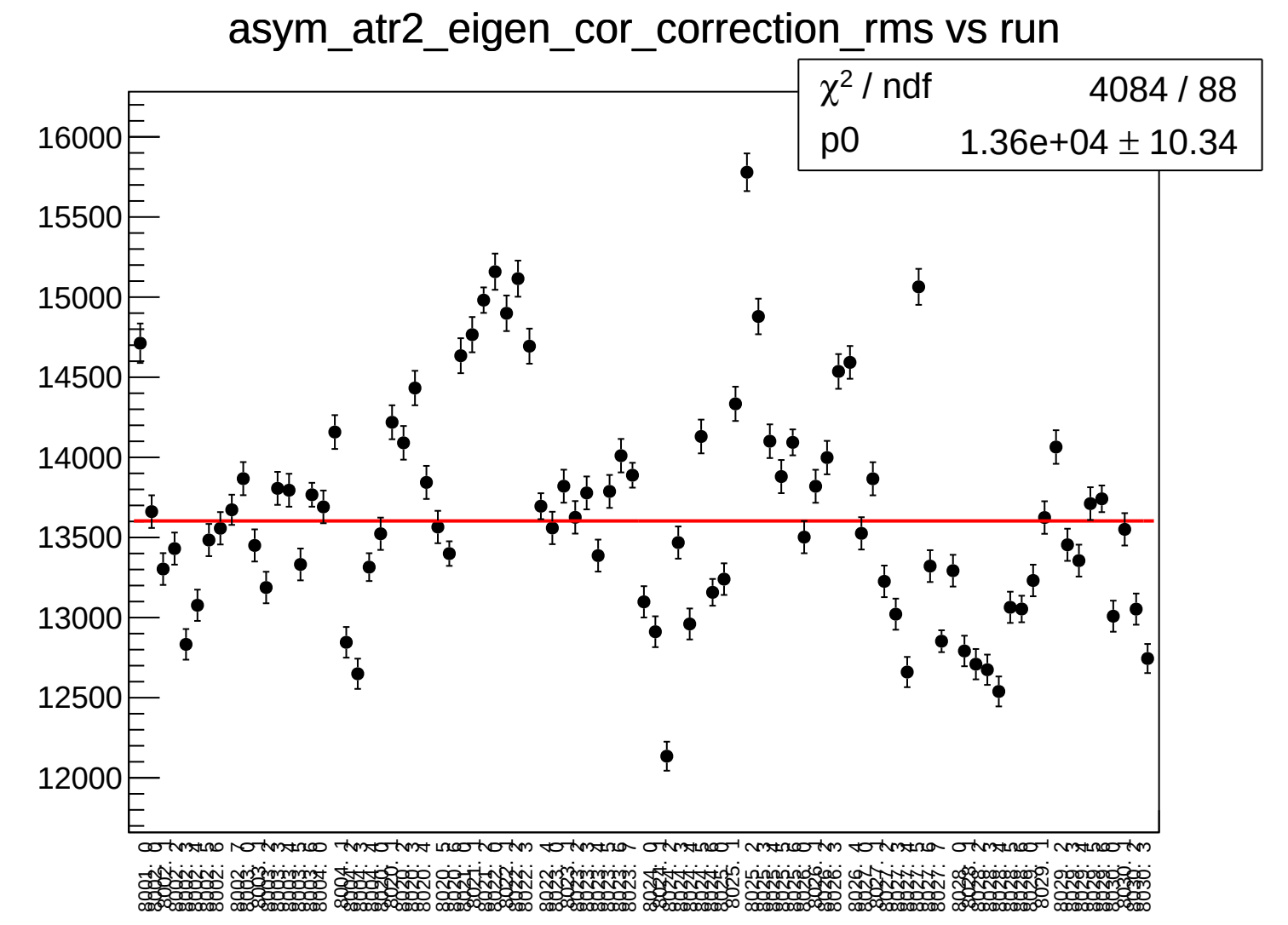

eigen_cor_asym_atr2_mean vs run
×10^3
χ^2 / ndf 88.45 / 88
p0 1814 ± 3018
100
50
0
−50
−100
pull
Entries 89
Mean −475
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

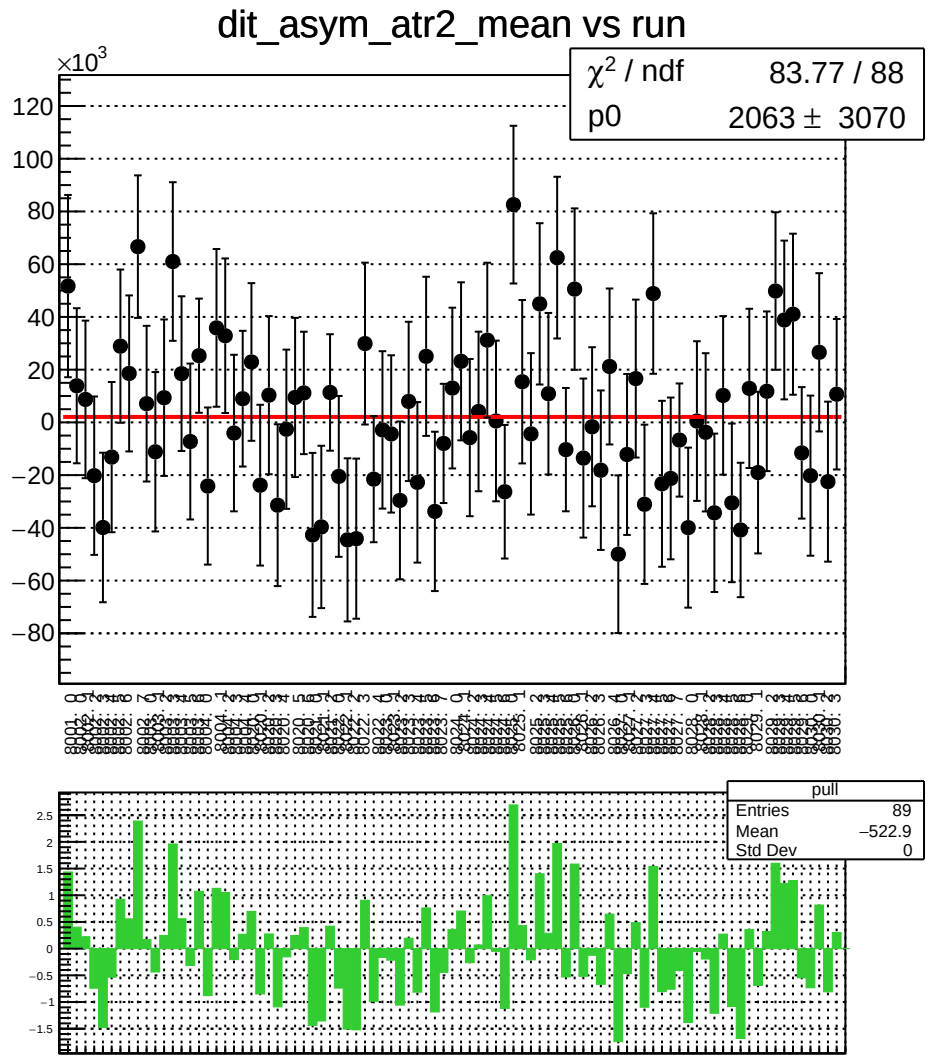

pull1D
Entries 89
Mean 0.004499
Std Dev 0.9969
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

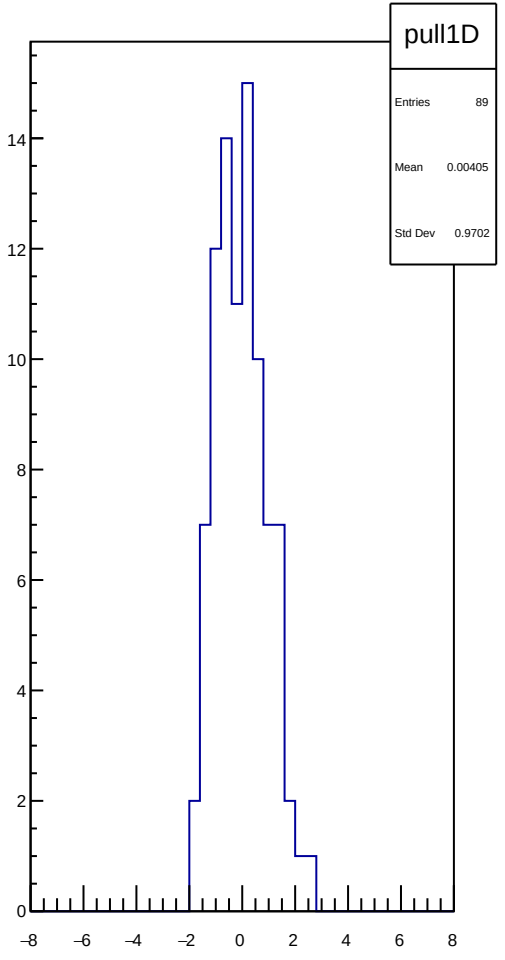

eigen_cor_asym_atr2_rms vs run
χ² / ndf 691.6 / 88
p0 2810 ± 2.134
3000
2900
2800
2700
2600

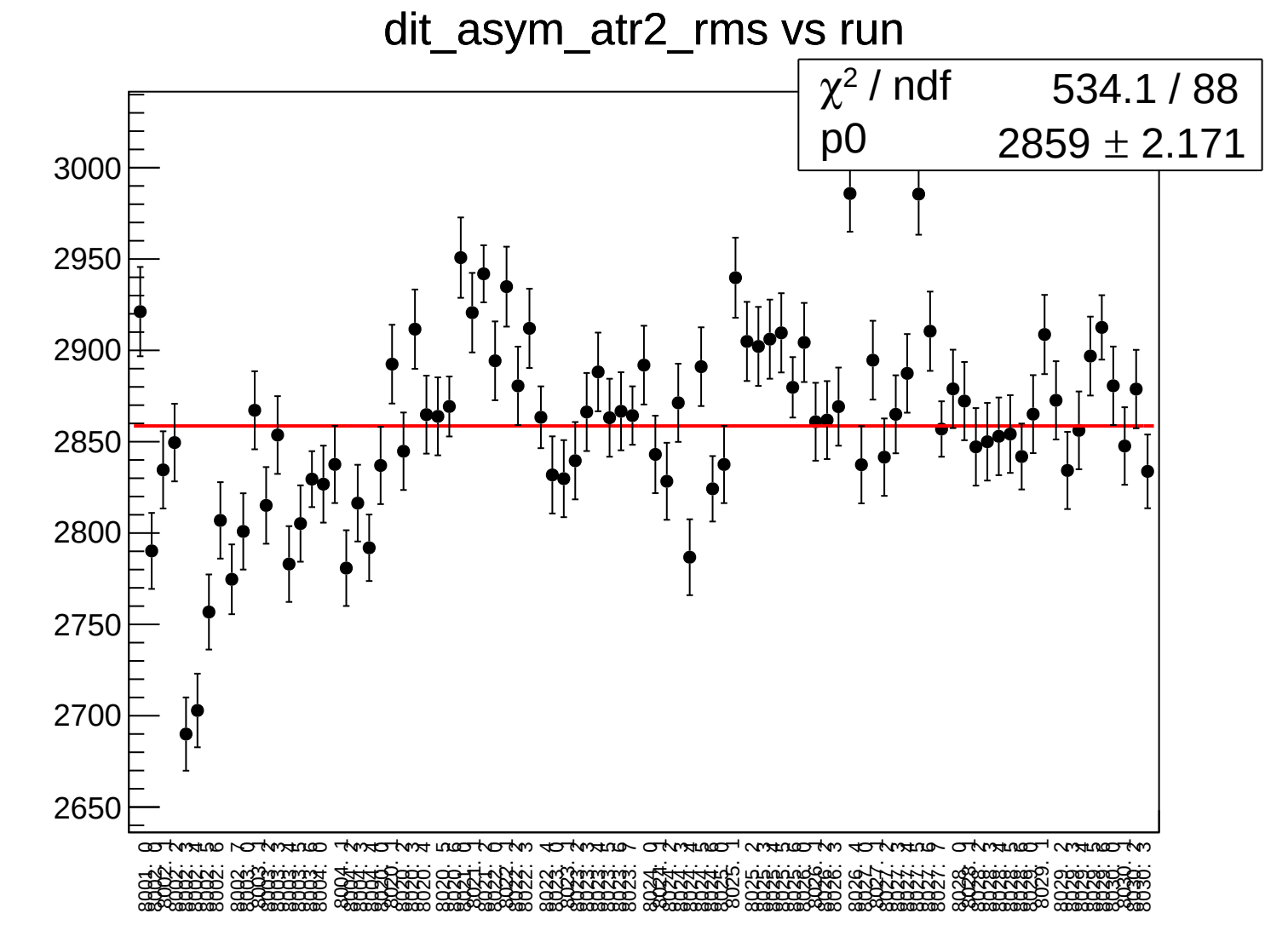

asym_atr2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 97.61 / 88
p0 663.3 ± 1.462e+04
400
200
0
−200
−400
−600
pull
Entries 89
Mean 157.9
Std Dev 0
2
1
0
−1
−2

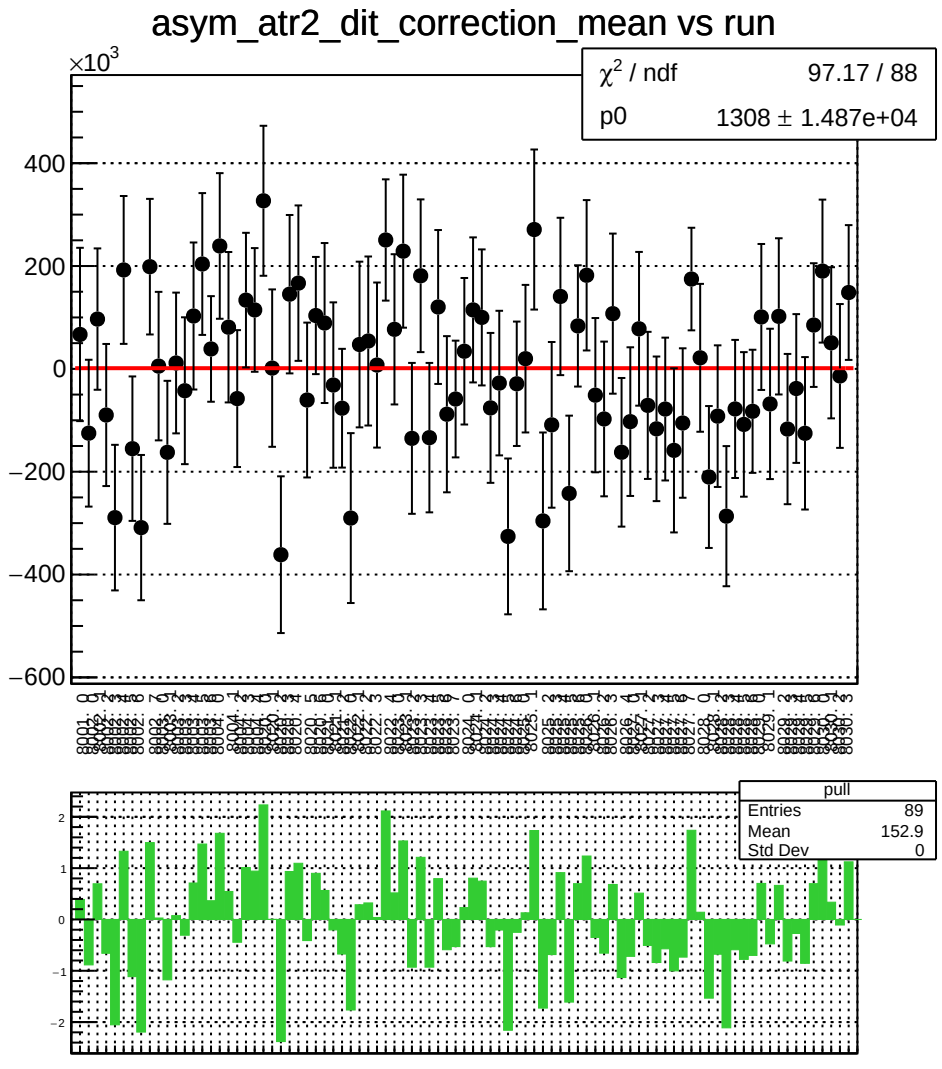

pull1D
Entries 89
Mean −0.02292
Std Dev 1.047
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

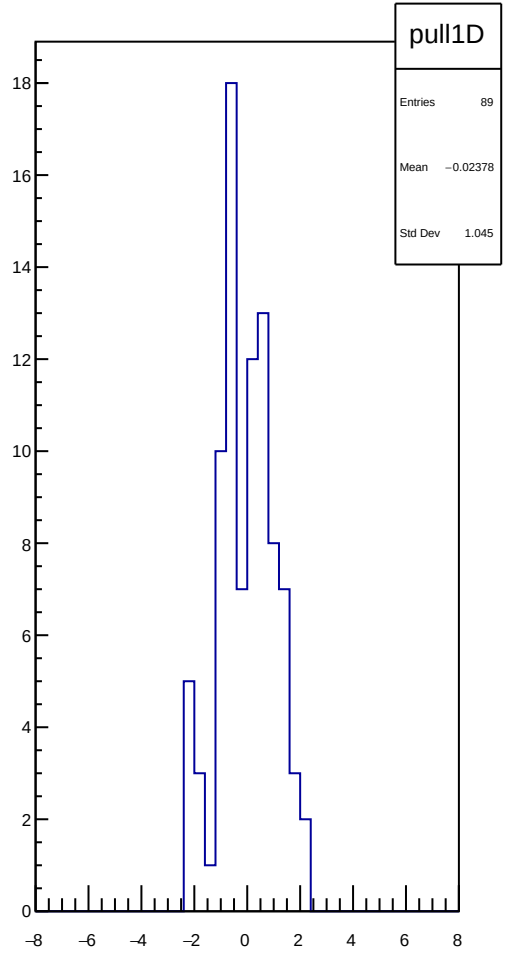

asym_atr2_eigen_cor_correction_rms vs run
χ² / ndf 4084 / 88
p0 1.36e+04 ± 10.34
16000
15500
15000
14500
14000
13500
13000
12500
12000

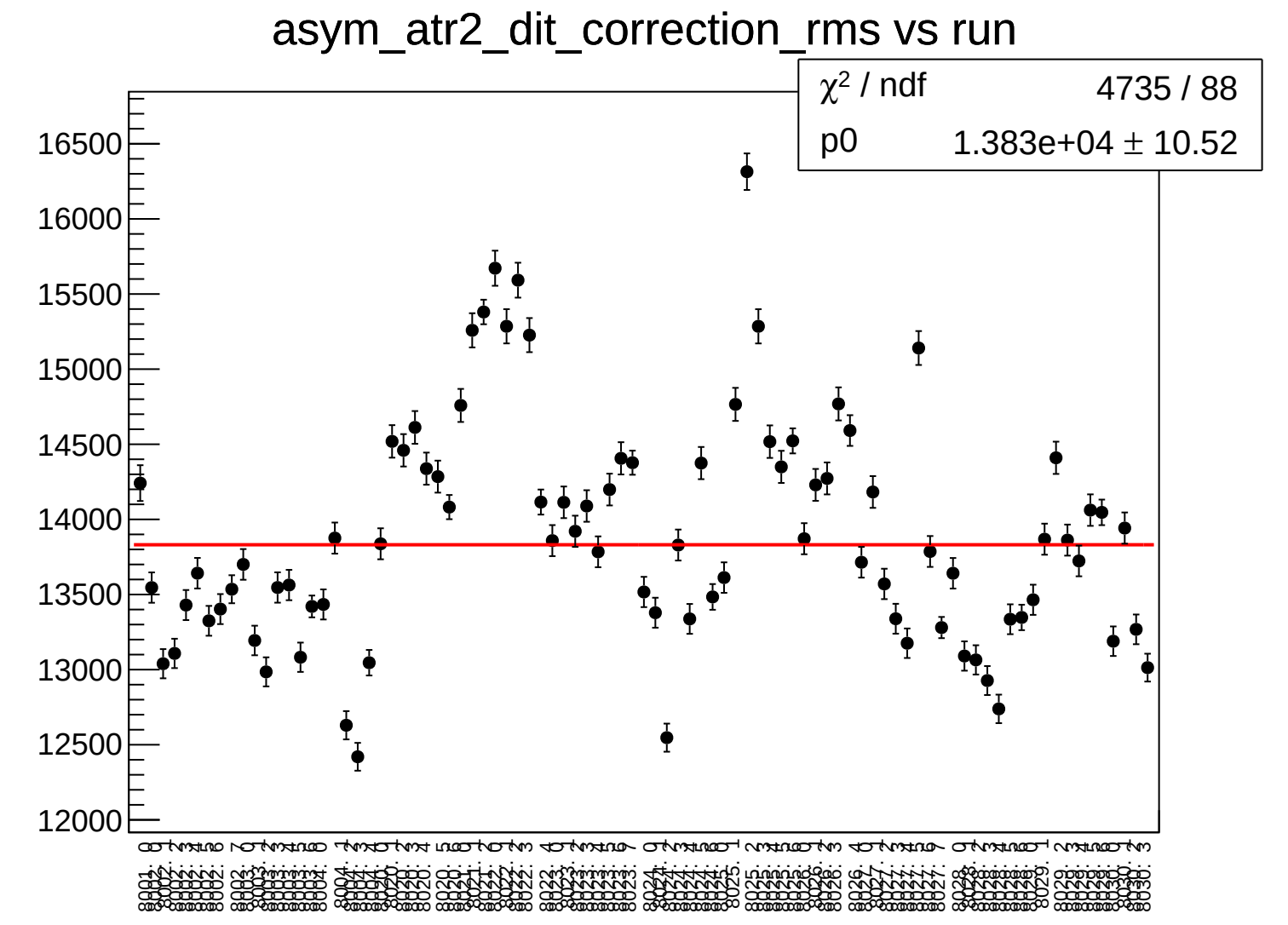

dit_asym_atr2_mean vs run
×10^3
χ^2 / ndf 83.77 / 88
p0 2063 ± 3070
pull
Entries 89
Mean −522.9
Std Dev 0

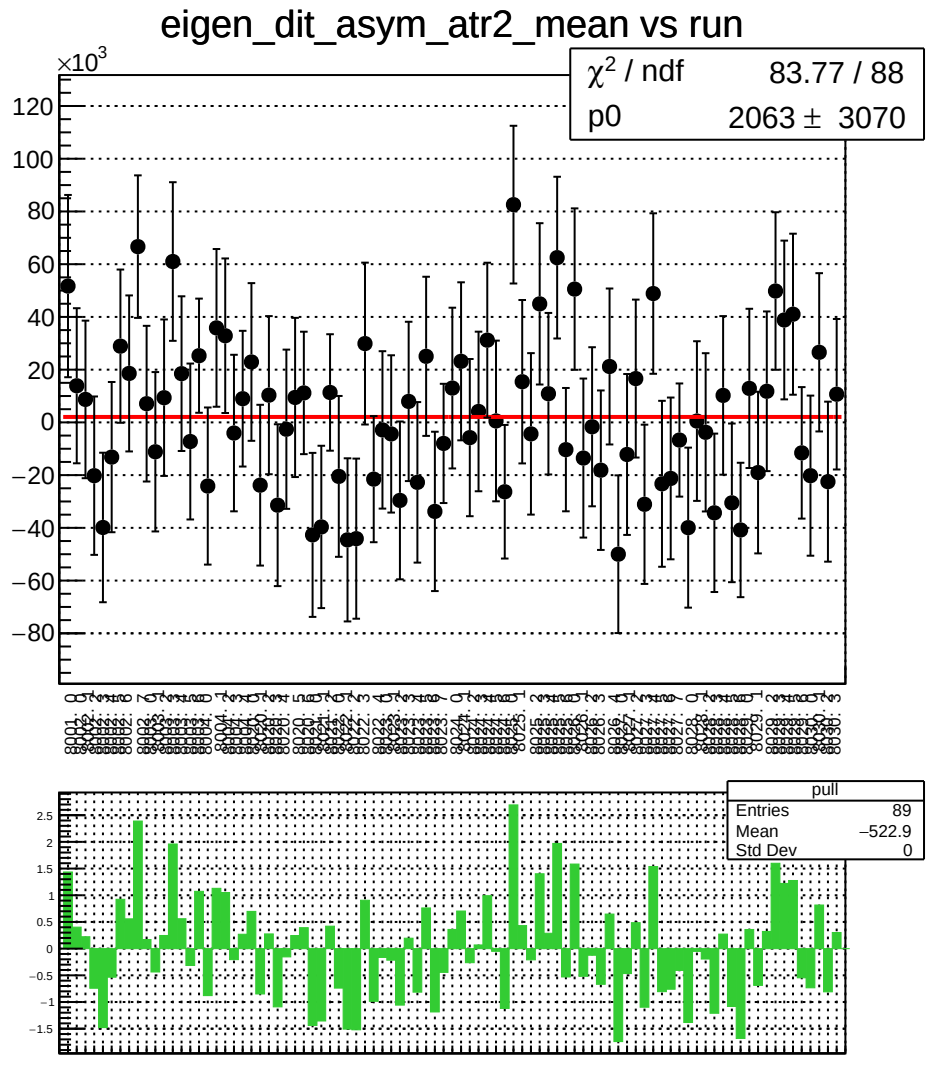

pull1D
Entries 89
Mean 0.00405
Std Dev 0.9702

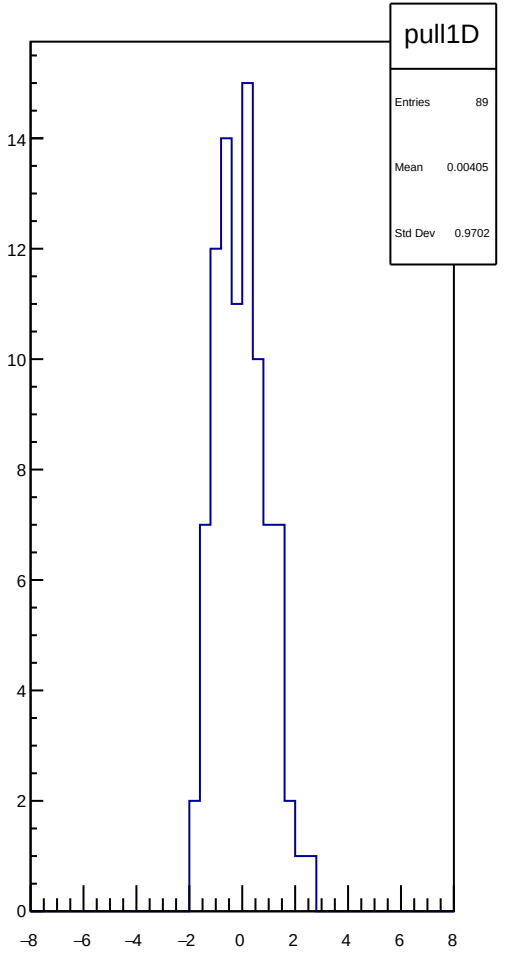

dit_asym_atr2_rms vs run
χ² / ndf 534.1 / 88
p0 2859 ± 2.171
3000
2950
2900
2850
2800
2750
2700
2650

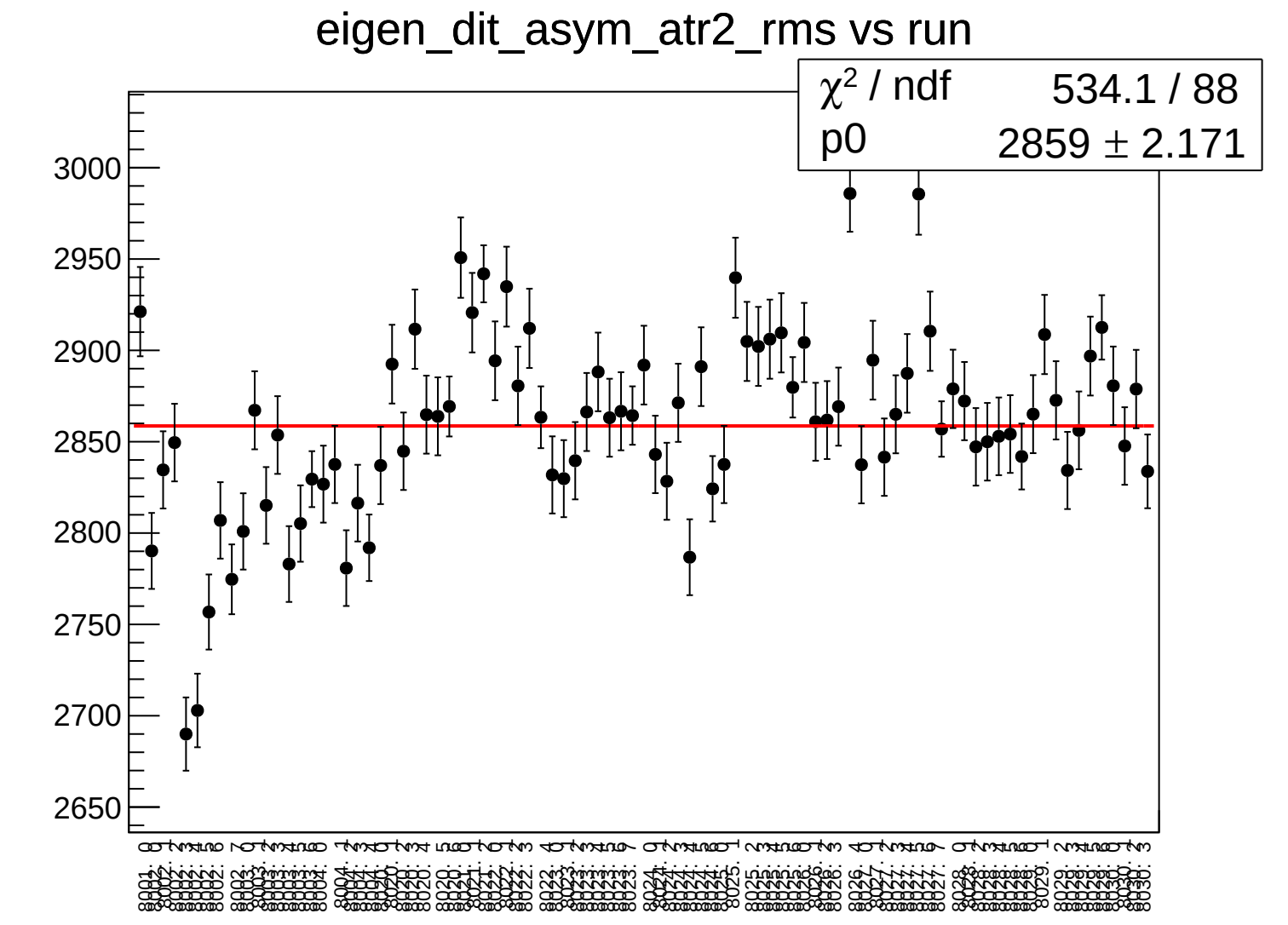

asym_atr2_dit_correction_mean vs run
×10^3
χ² / ndf 97.17 / 88
p0 1308 ± 1.487e+04
400
200
0
−200
−400
−600
pull
Entries 89
Mean 152.9
Std Dev 0
2
1
0
−1
−2

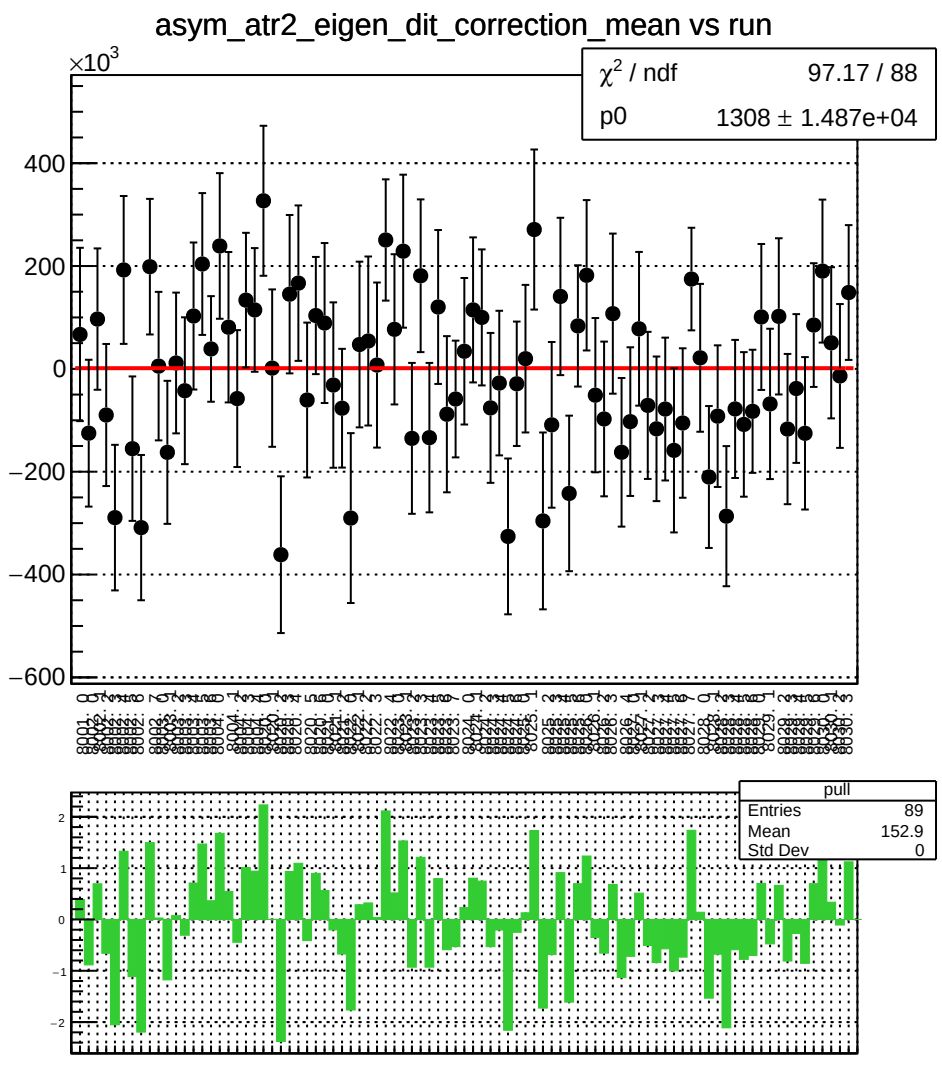

pull1D
Entries 89
Mean −0.02378
Std Dev 1.045
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

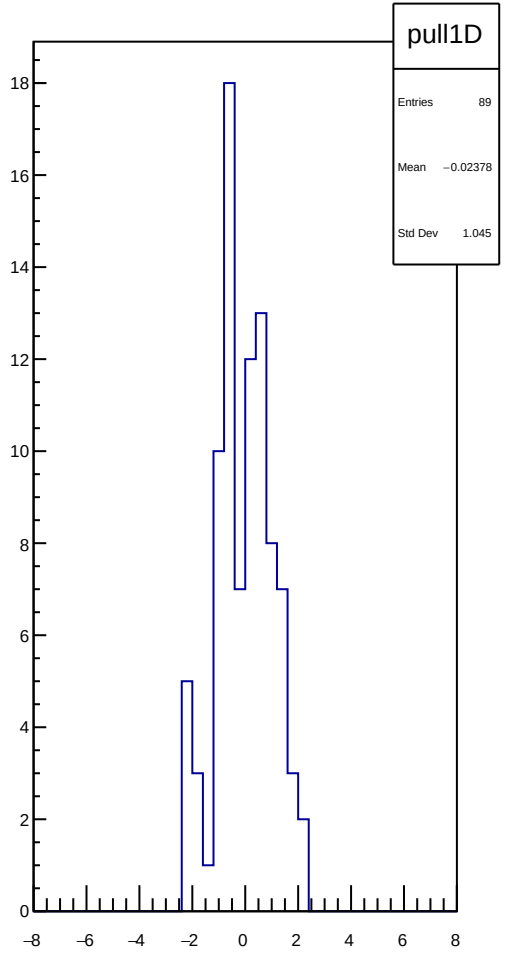

asym_atr2_dit_correction_rms vs run
χ² / ndf 4735 / 88
p0 1.383e+04 ± 10.52
16500
16000
15500
15000
14500
14000
13500
13000
12500
12000

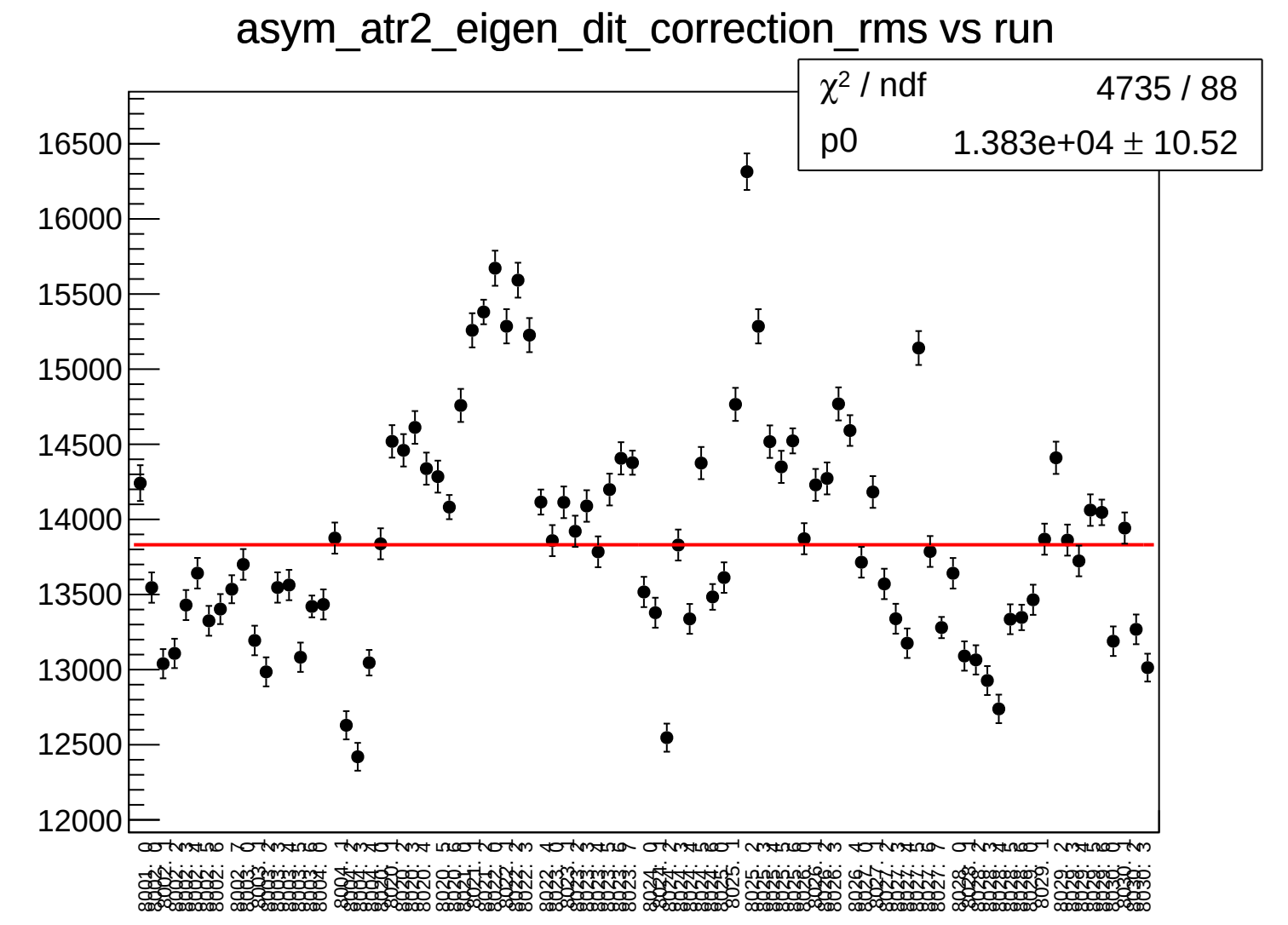

eigen_dit_asym_atr2_mean vs run
×10^3
χ^2 / ndf 83.77 / 88
p0 2063 ± 3070
pull
Entries 89
Mean −522.9
Std Dev 0

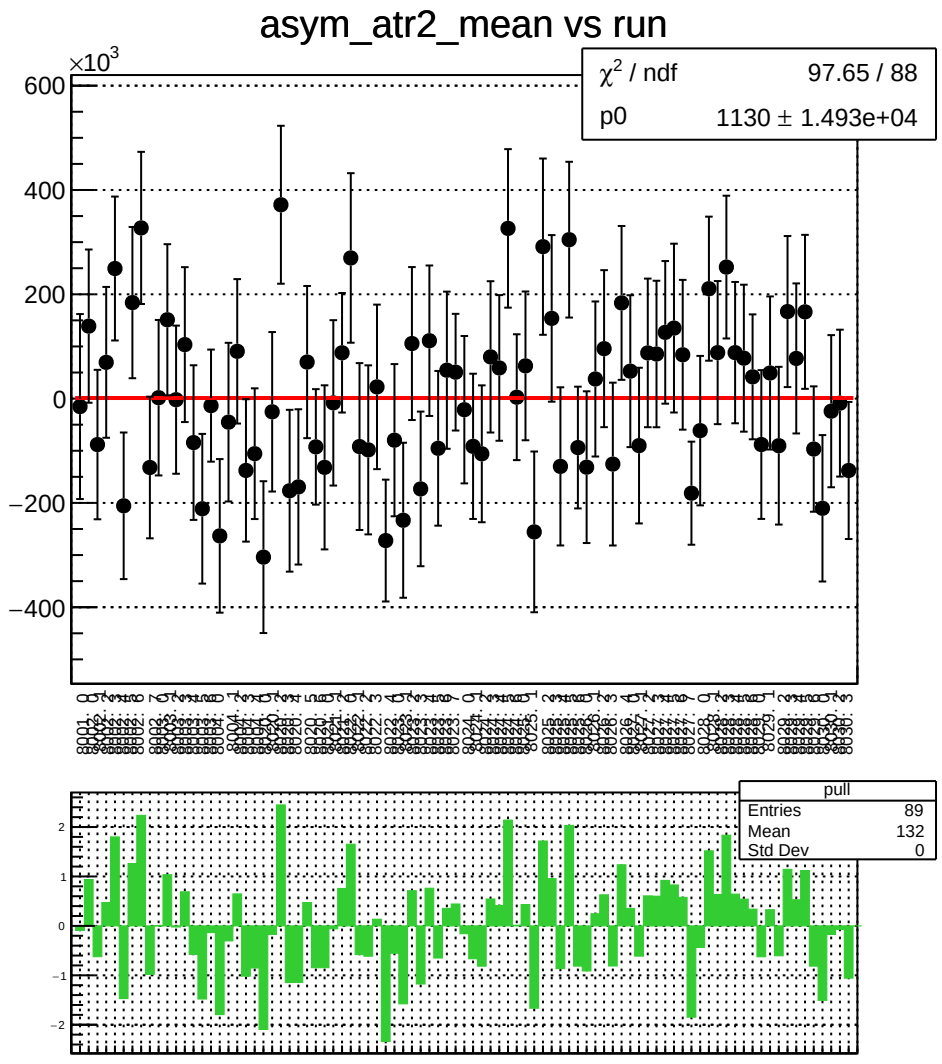

pull1D
Entries 89
Mean 0.00405
Std Dev 0.9702

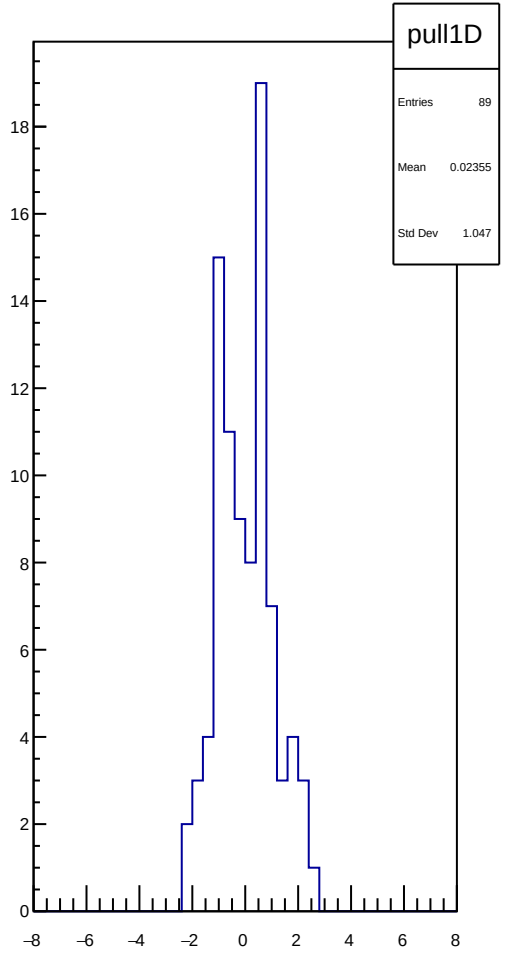

eigen_dit_asym_atr2_rms vs run
χ² / ndf 534.1 / 88
p0 2859 ± 2.171
3000
2950
2900
2850
2800
2750
2700
2650

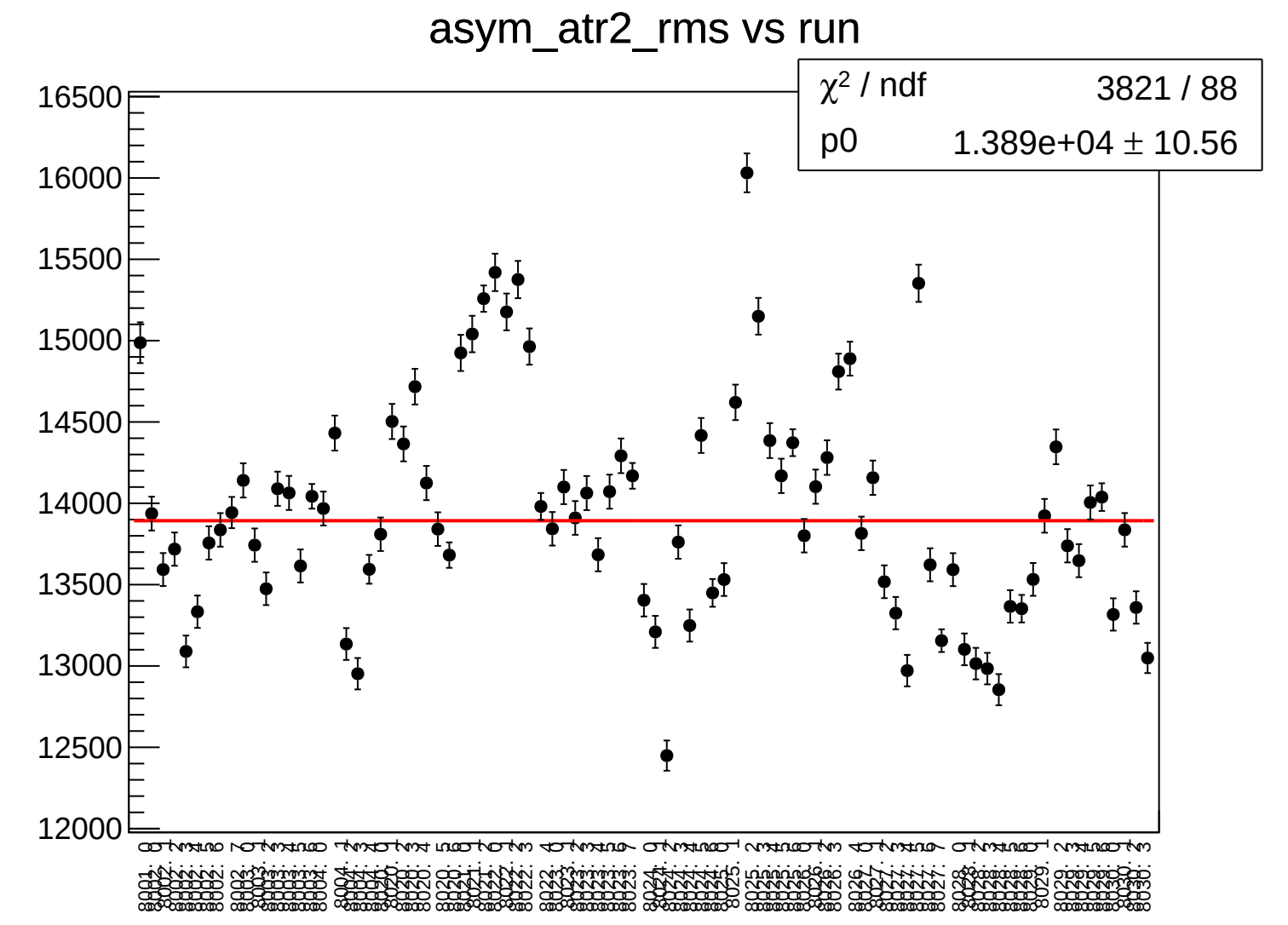

asym_atr2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 97.17 / 88
p0 1308 ± 1.487e+04
400
200
0
−200
−400
−600
pull
Entries 89
Mean 152.9
Std Dev 0
2
1
0
−1
−2

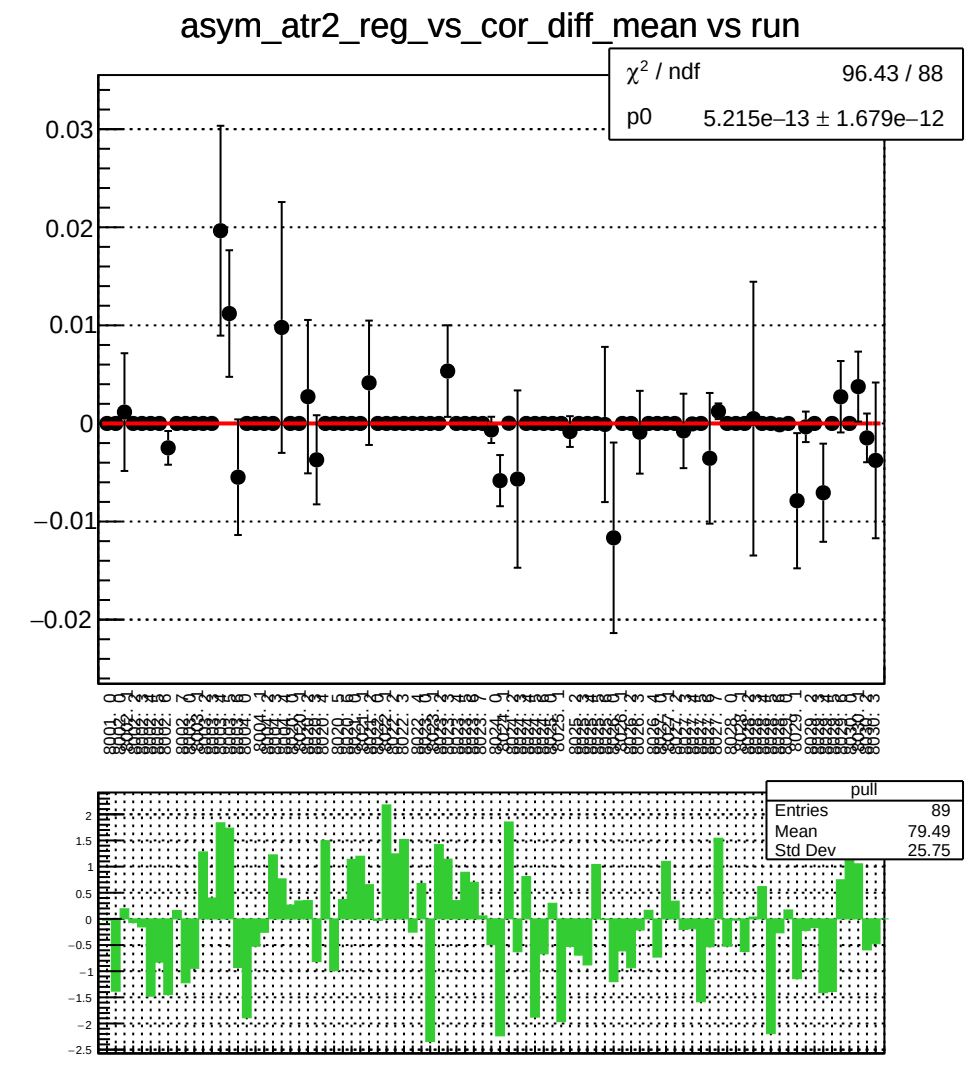

pull1D
Entries 89
Mean −0.02378
Std Dev 1.045
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

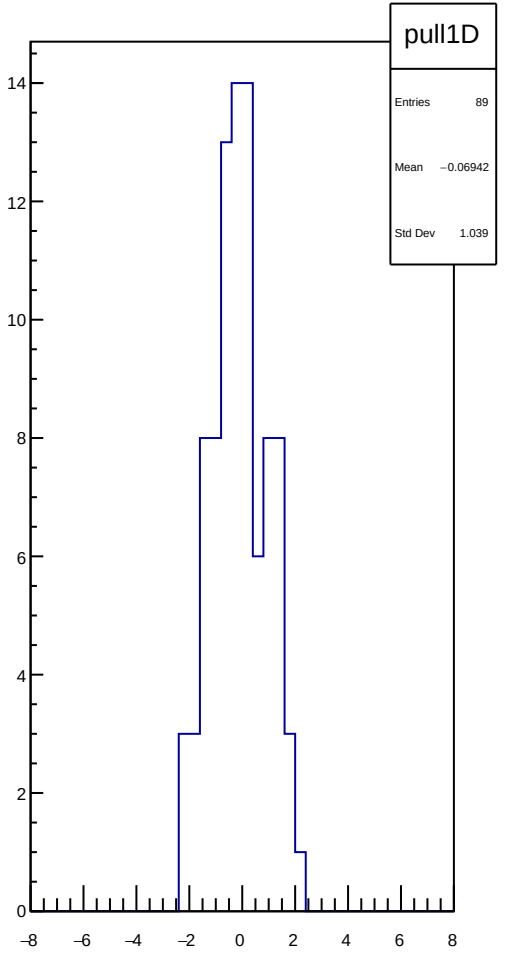

asym_atr2_eigen_dit_correction_rms vs run
χ² / ndf 4735 / 88
p0 1.383e+04 ± 10.52
16500
16000
15500
15000
14500
14000
13500
13000
12500
12000

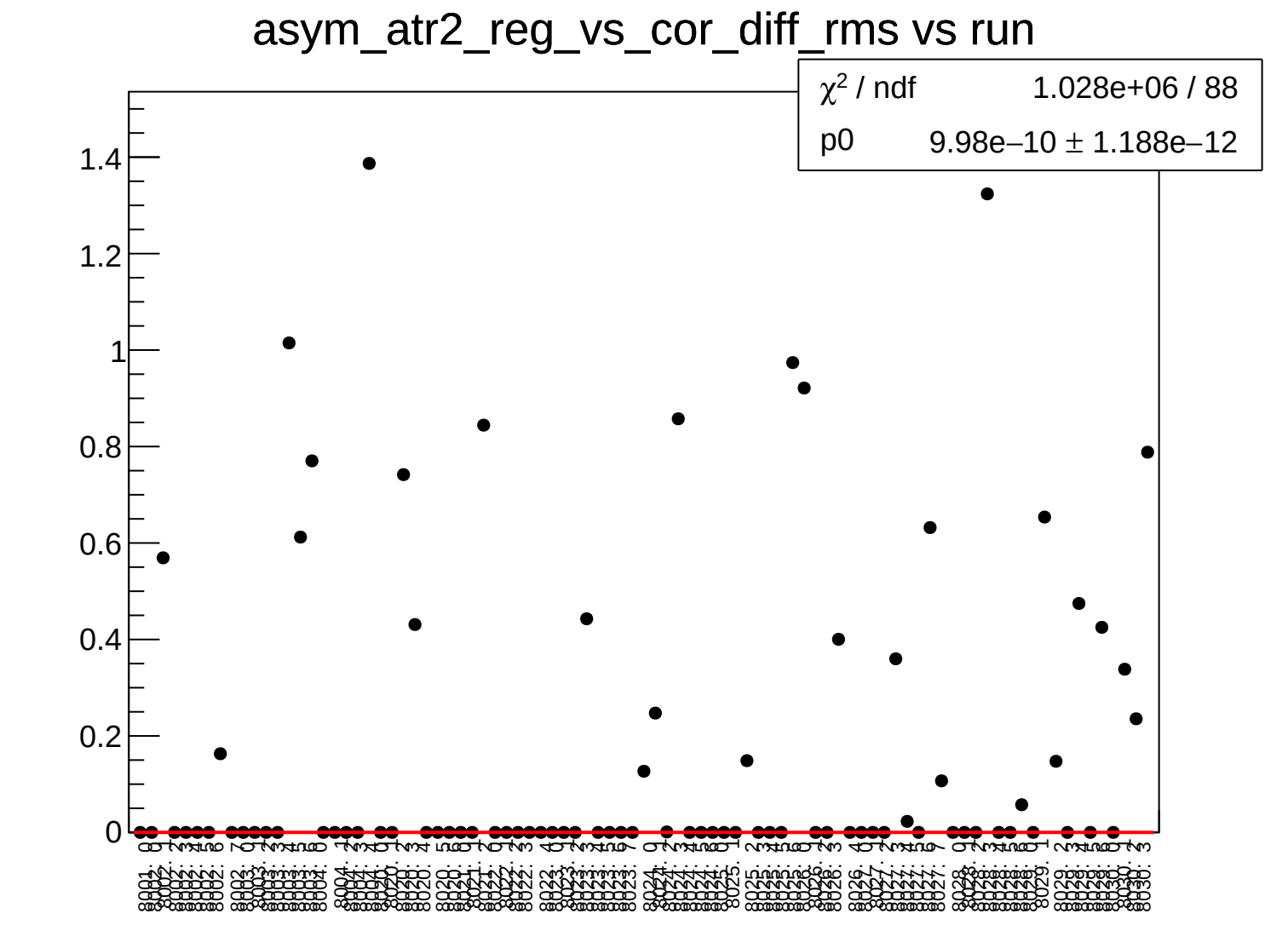

asym_atr2_mean vs run
×10^3
600
400
200
0
−200
−400
χ² / ndf 97.65 / 88
p0 1130 ± 1.493e+04
pull
Entries 89
Mean 132
Std Dev 0
2
1
0
−1
−2

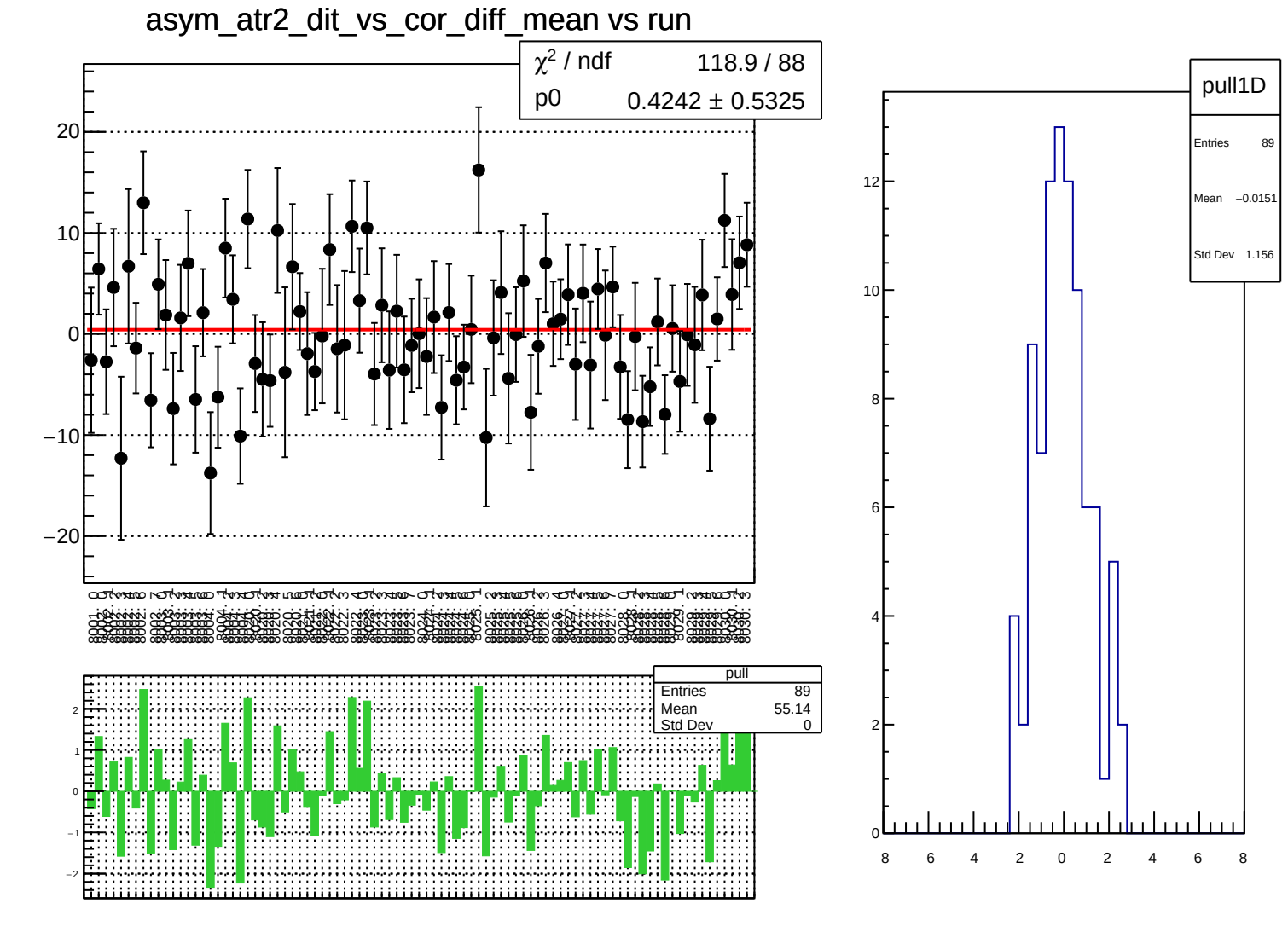

pull1D
Entries 89
Mean 0.02355
Std Dev 1.047
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

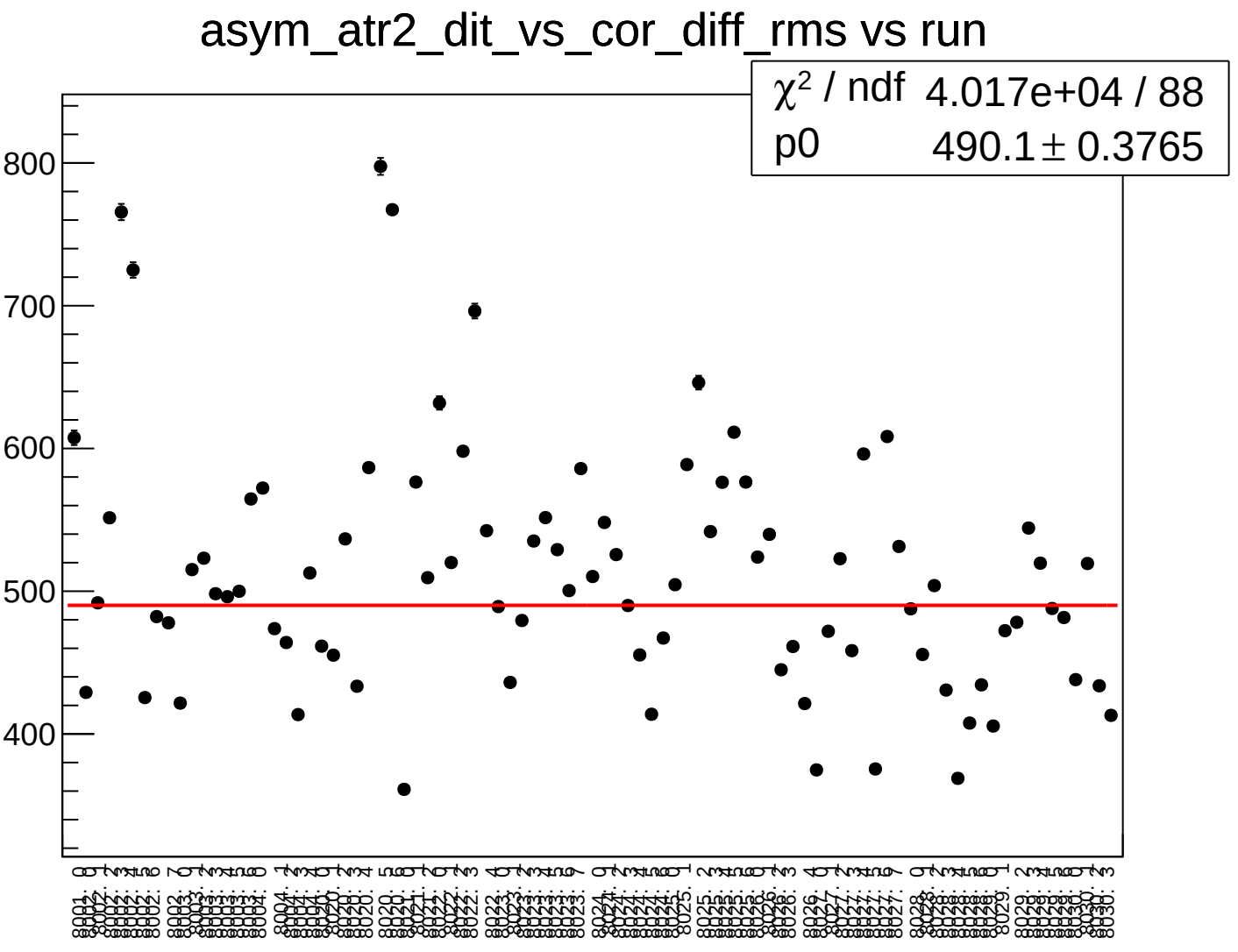

asym_atr2_rms vs run
χ² / ndf 3821 / 88
p0 1.389e+04 ± 10.56
16500
16000
15500
15000
14500
14000
13500
13000
12500
12000

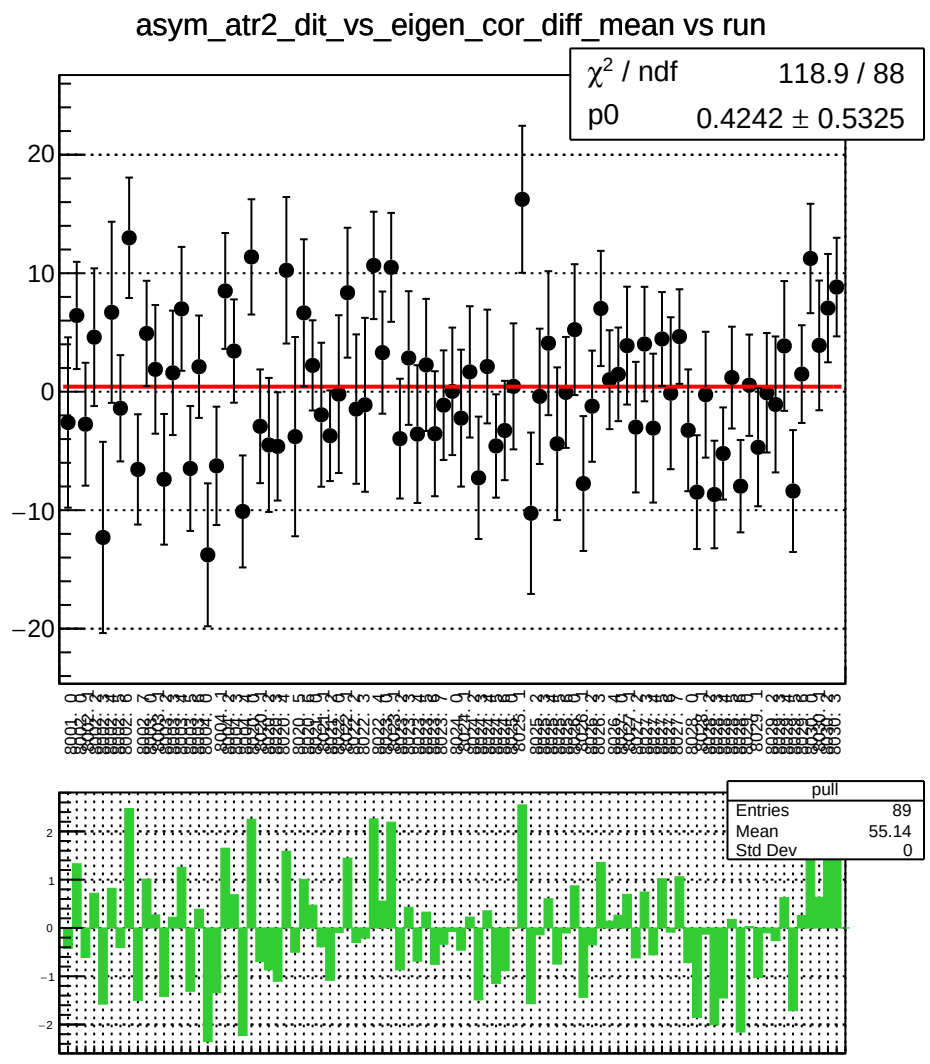

asym_atr2_reg_vs_cor_diff_mean vs run
χ² / ndf 96.43 / 88
p0 5.215e−13 ± 1.679e−12
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 89
Mean 79.49
Std Dev 25.75
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

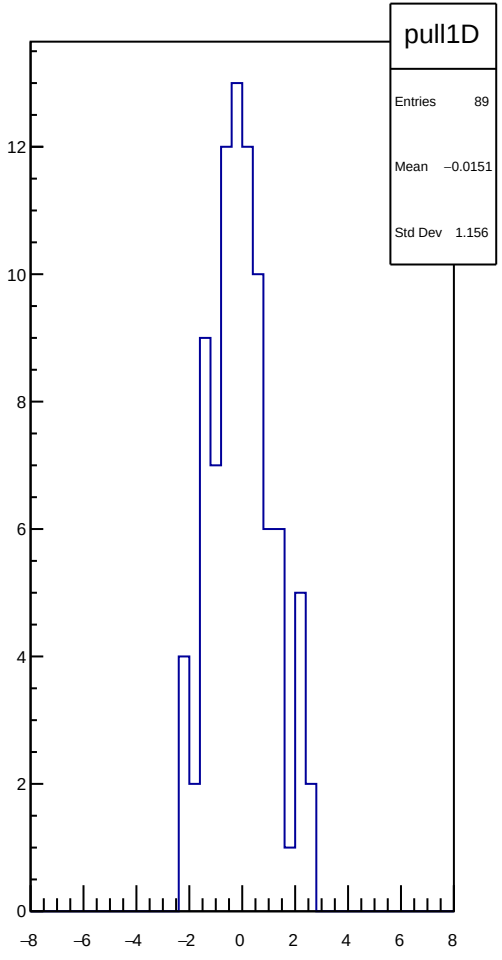

pull1D
Entries 89
Mean −0.06942
Std Dev 1.039
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

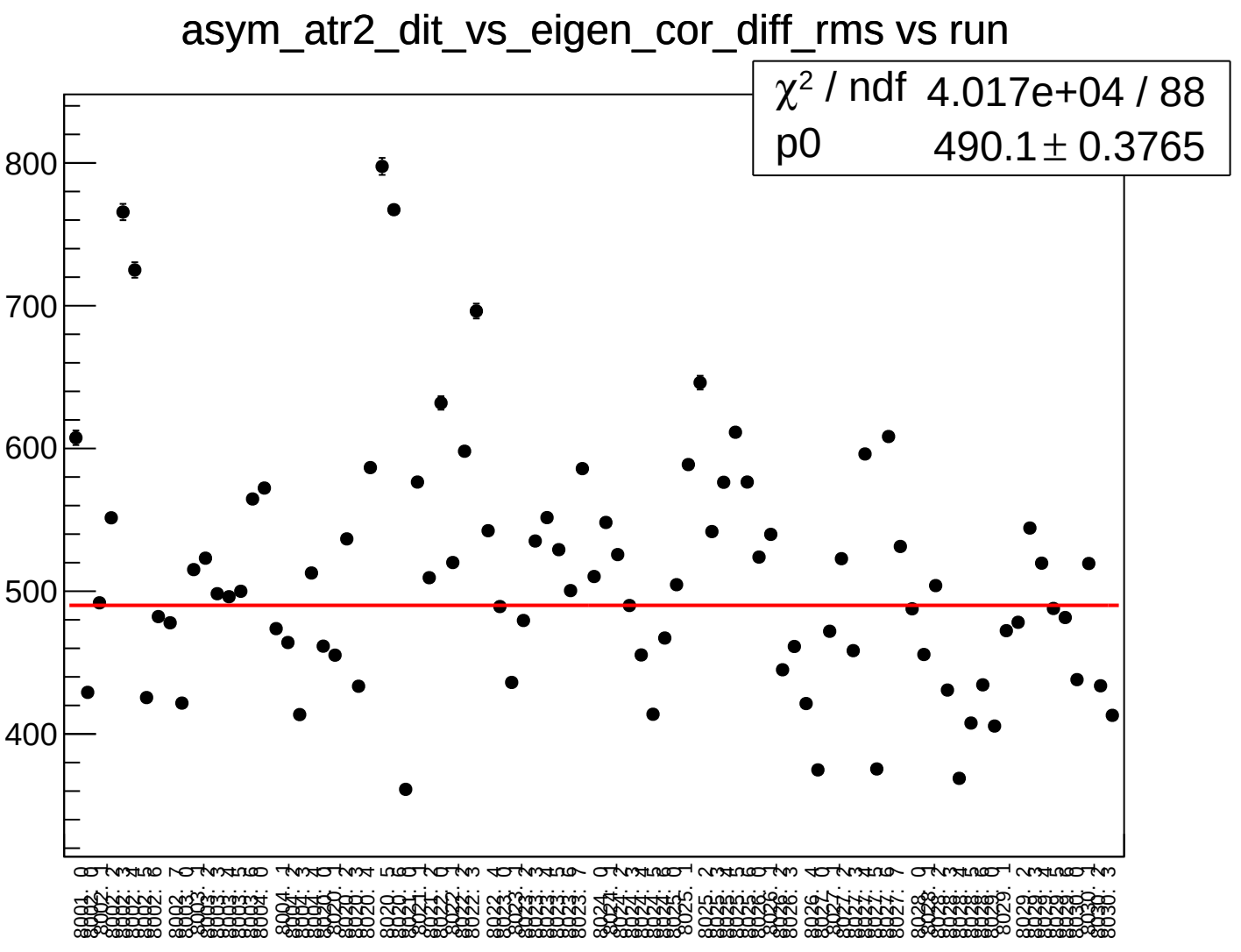

asym_atr2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.028e+06 / 88
p0 9.98e−10 ± 1.188e−12
1.4
1.2
1
0.8
0.6
0.4
0.2
0

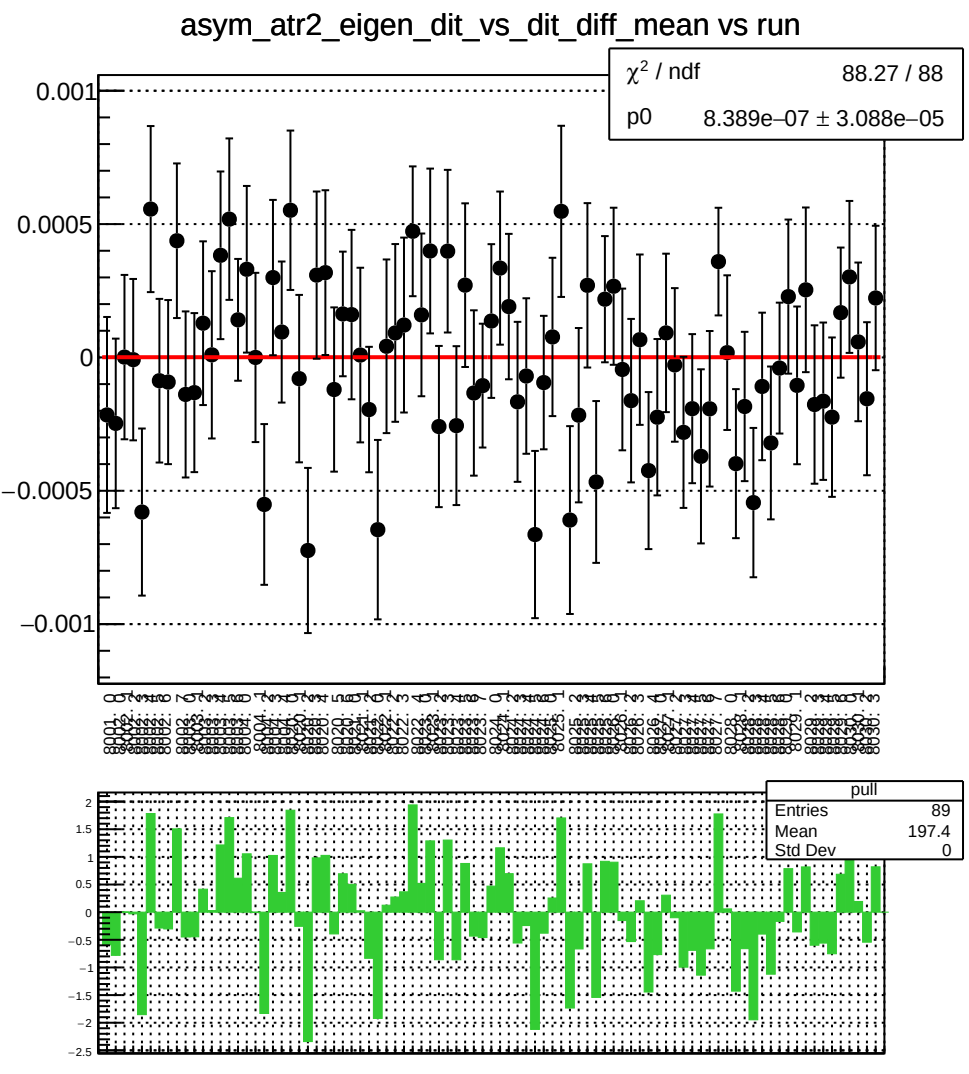

asym_atr2_dit_vs_cor_diff_mean vs run
χ² / ndf 118.9 / 88
p0 0.4242 ± 0.5325
pull
Entries 89
Mean 55.14
Std Dev 0
pull1D
Entries 89
Mean −0.0151
Std Dev 1.156

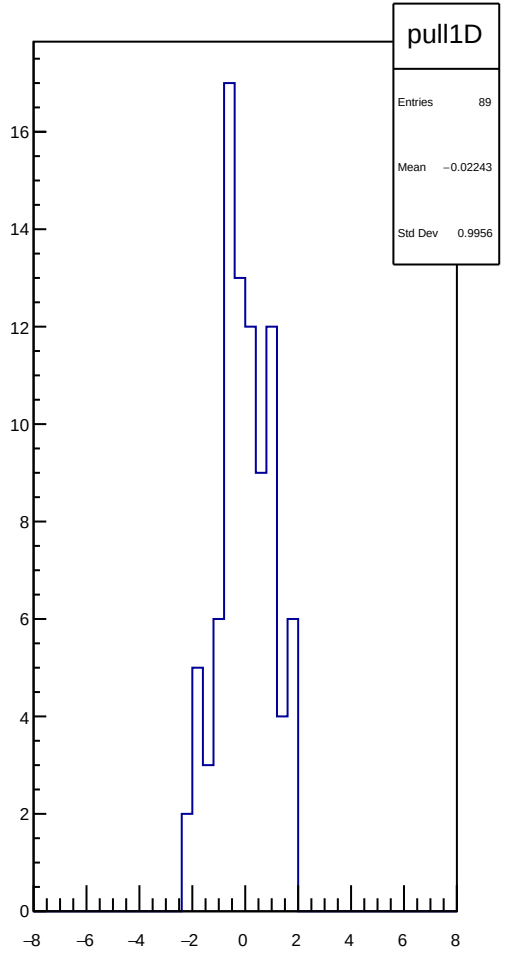

asym_atr2_dit_vs_cor_diff_rms vs run
χ² / ndf 4.017e+04 / 88
p0 490.1 ± 0.3765
800
700
600
500
400

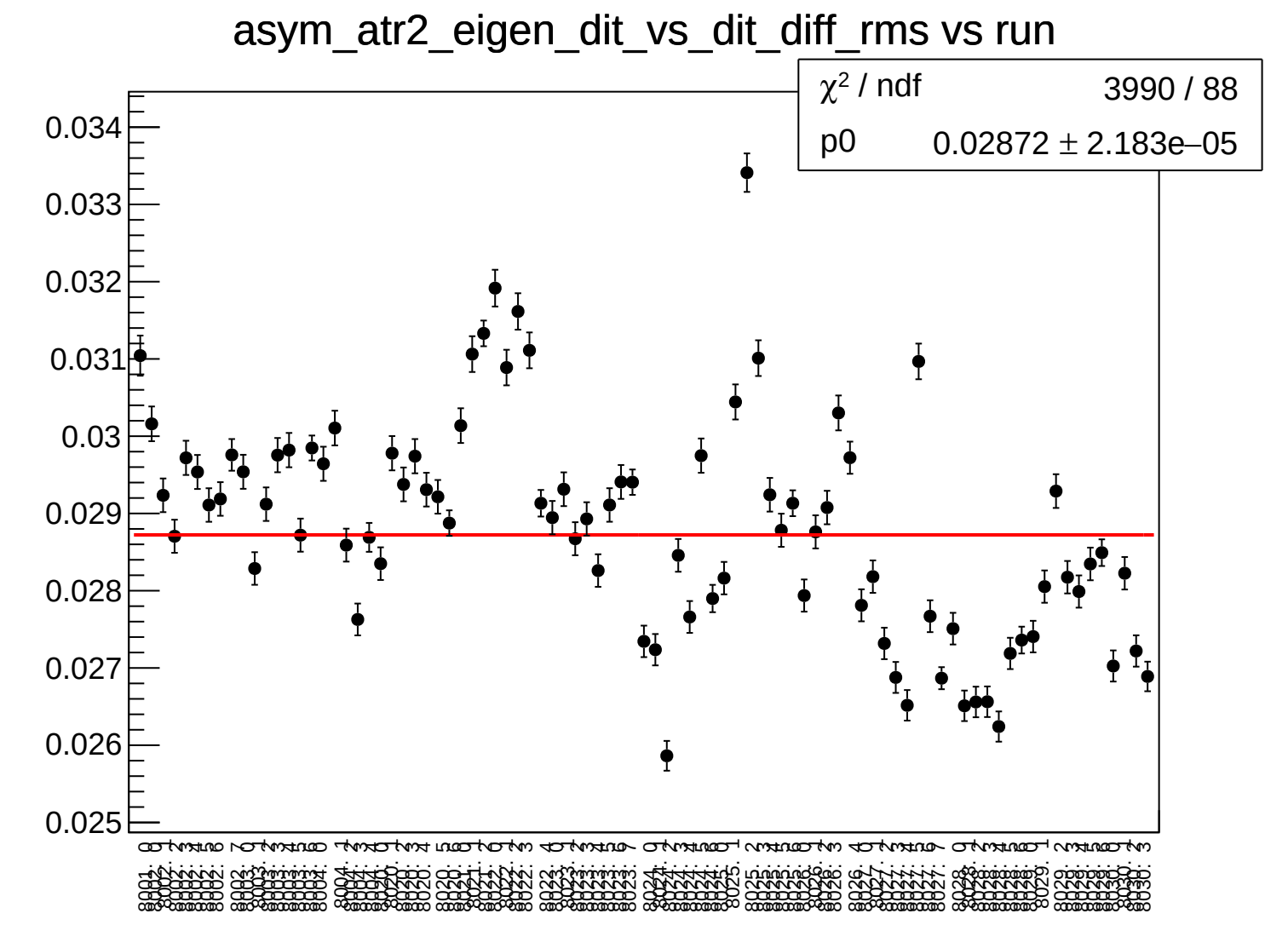

asym_atr2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 118.9 / 88
p0 0.4242 ± 0.5325
pull
Entries 89
Mean 55.14
Std Dev 0

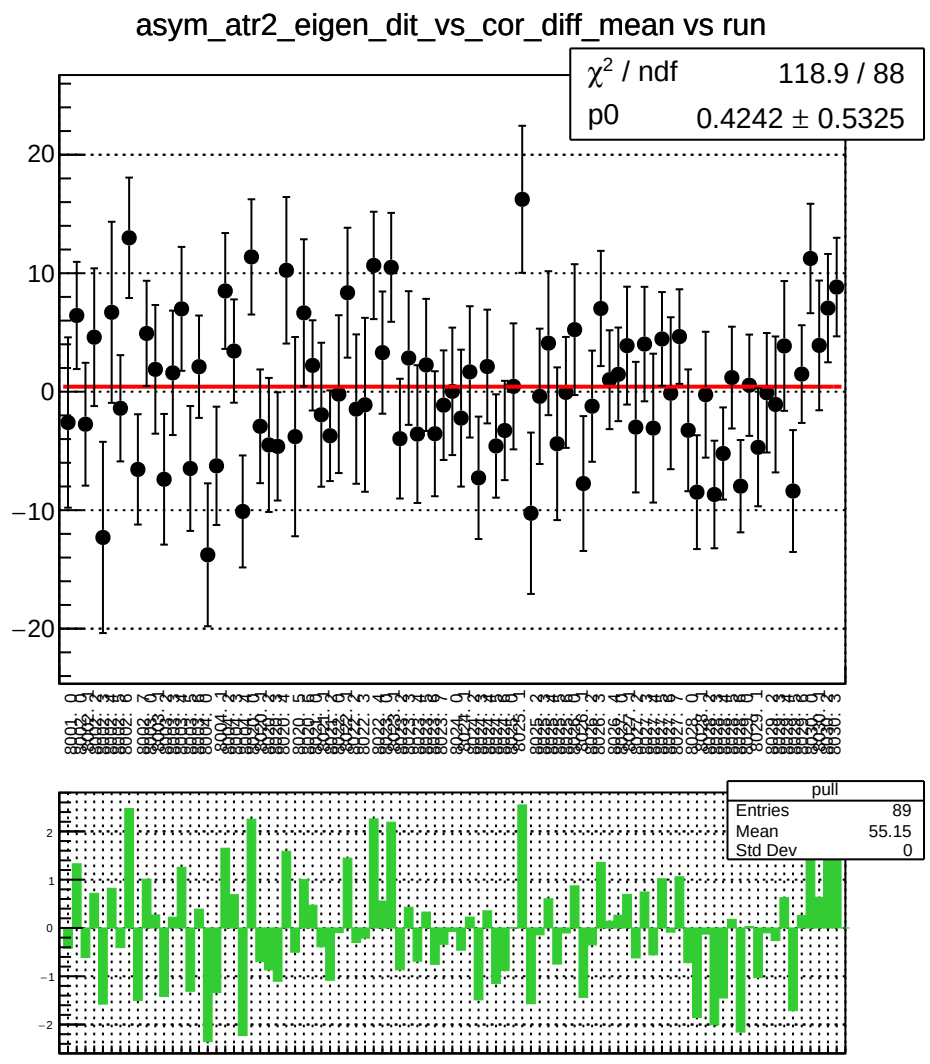

pull1D
Entries 89
Mean −0.0151
Std Dev 1.156

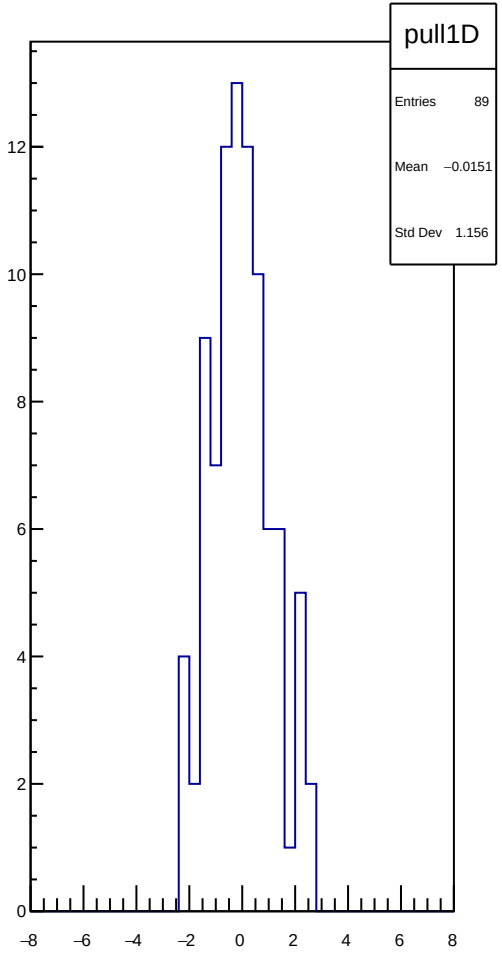

asym_atr2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.017e+04 / 88
p0 490.1 ± 0.3765
800
700
600
500
400

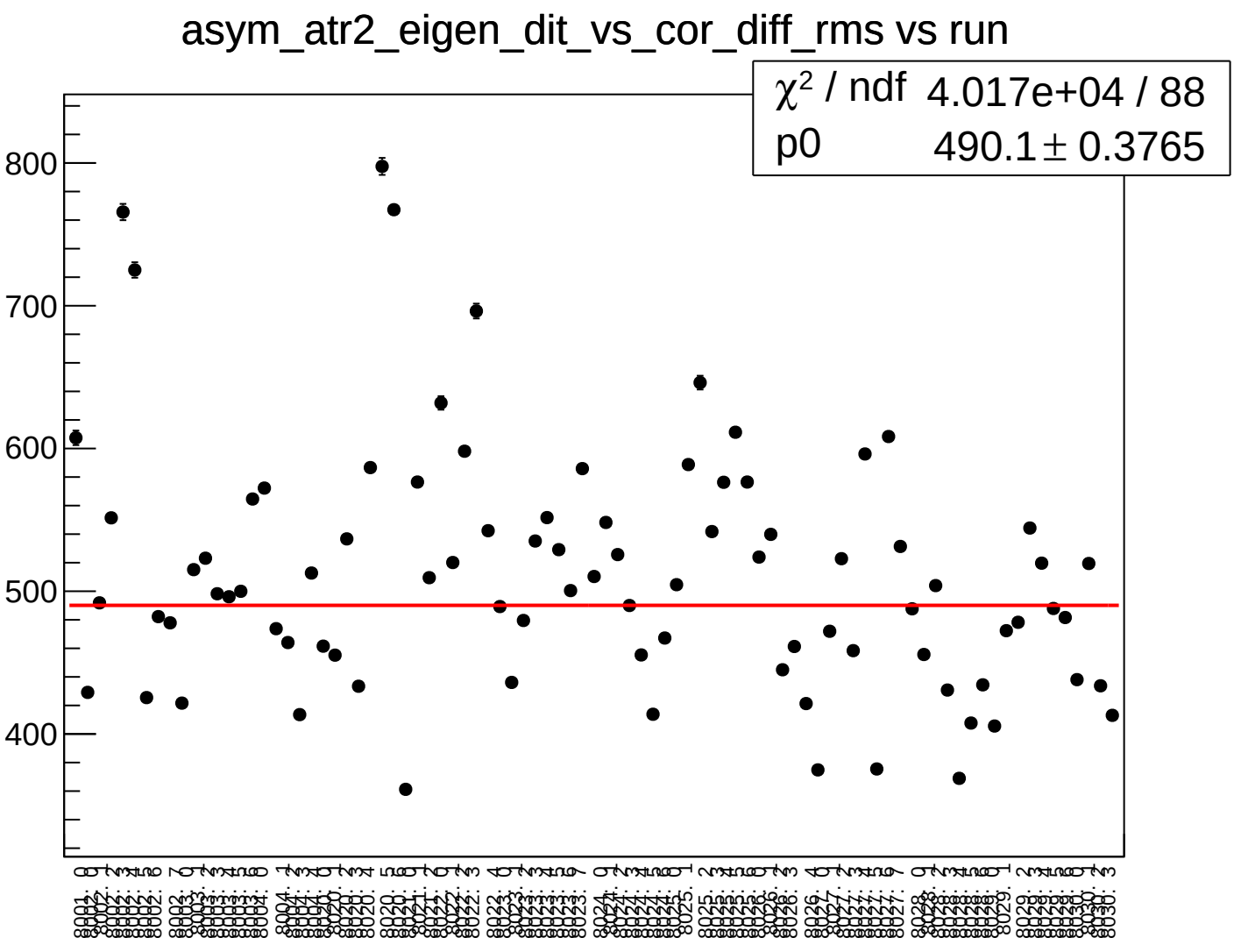

asym_atr2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 88.27 / 88
p0 8.389e−07 ± 3.088e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 89
Mean 197.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

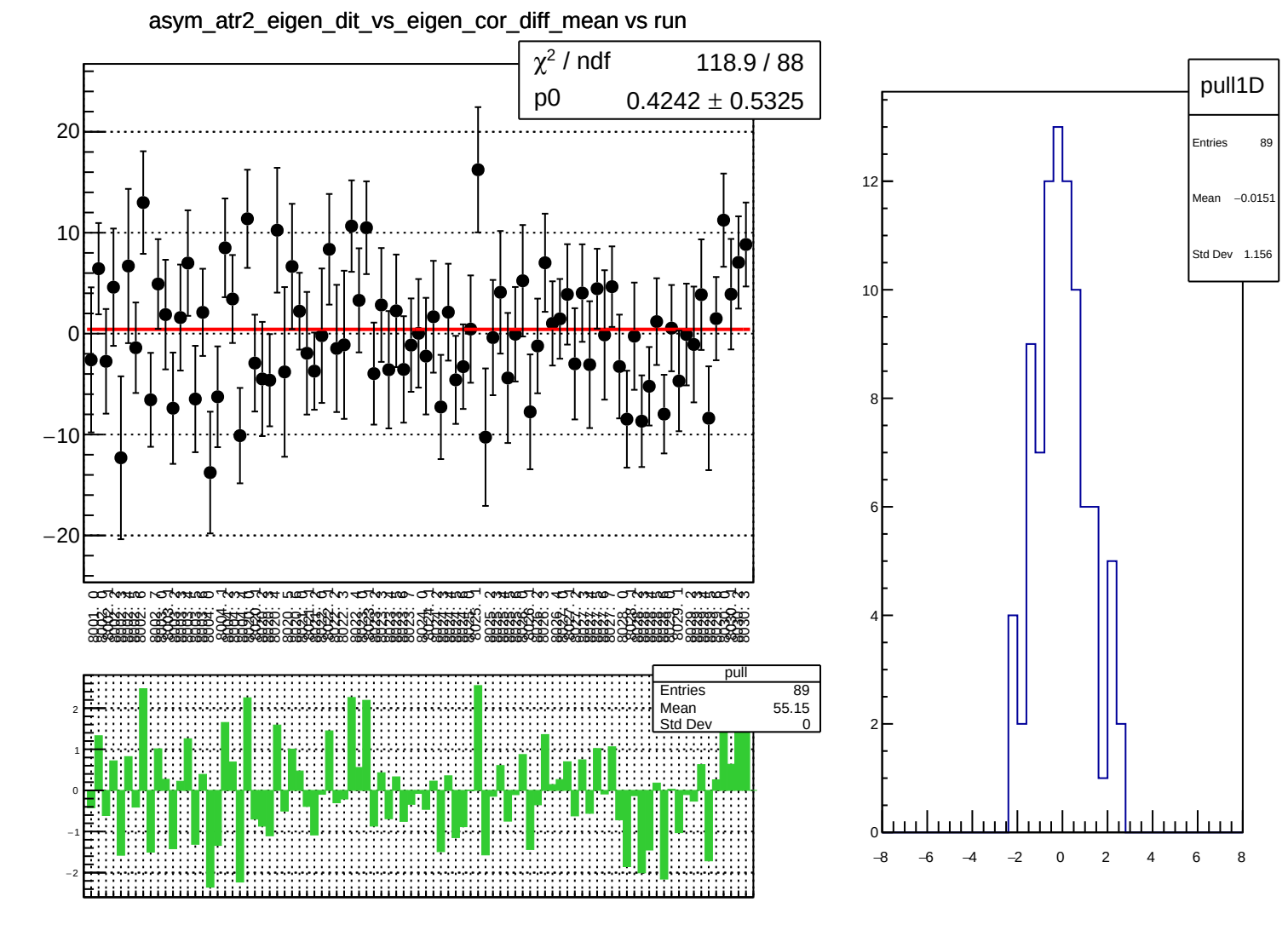

pull1D
Entries 89
Mean −0.02243
Std Dev 0.9956
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

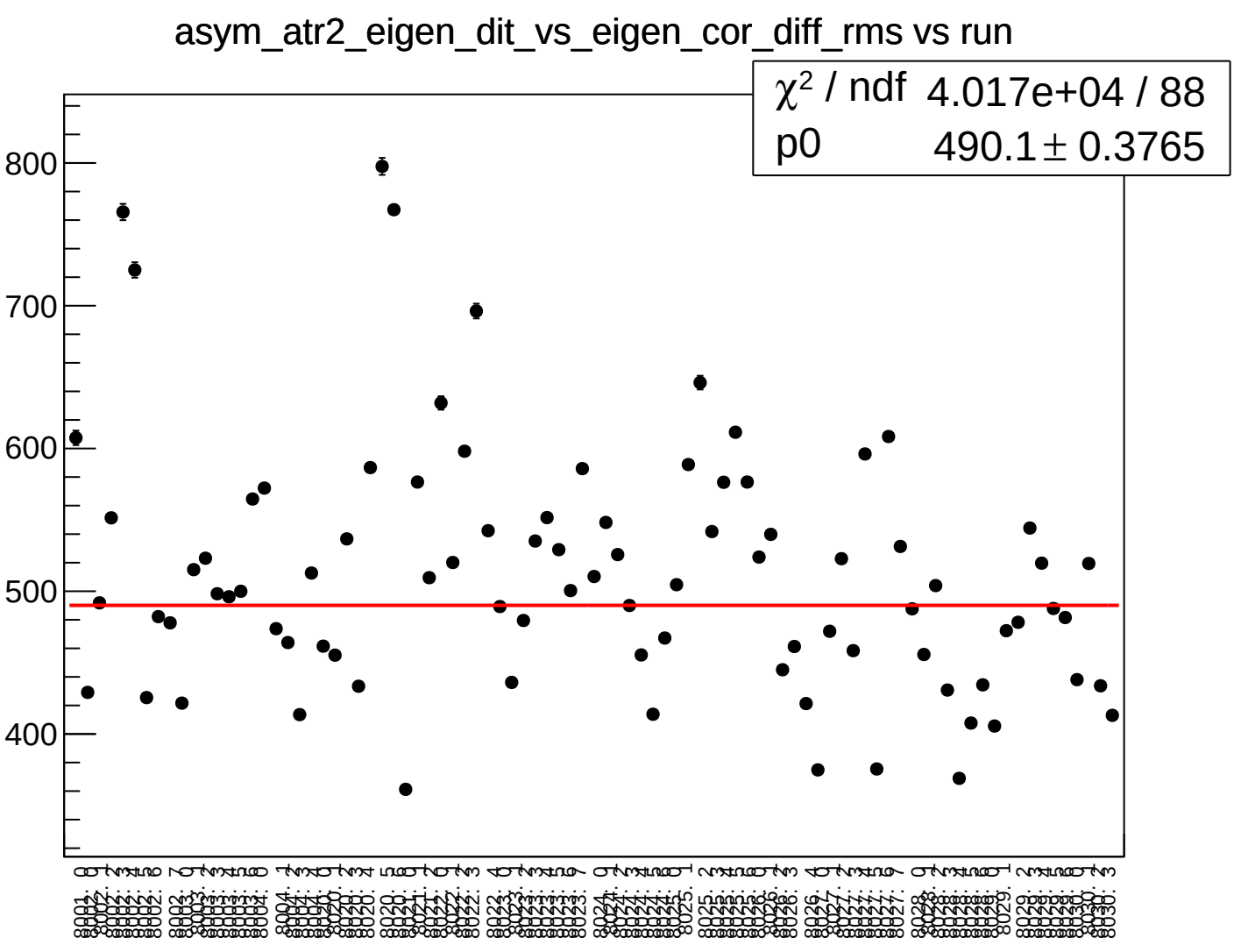

asym_atr2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3990 / 88
p0 0.02872 ± 2.183e–05
0.034
0.033
0.032
0.031
0.03
0.029
0.028
0.027
0.026
0.025

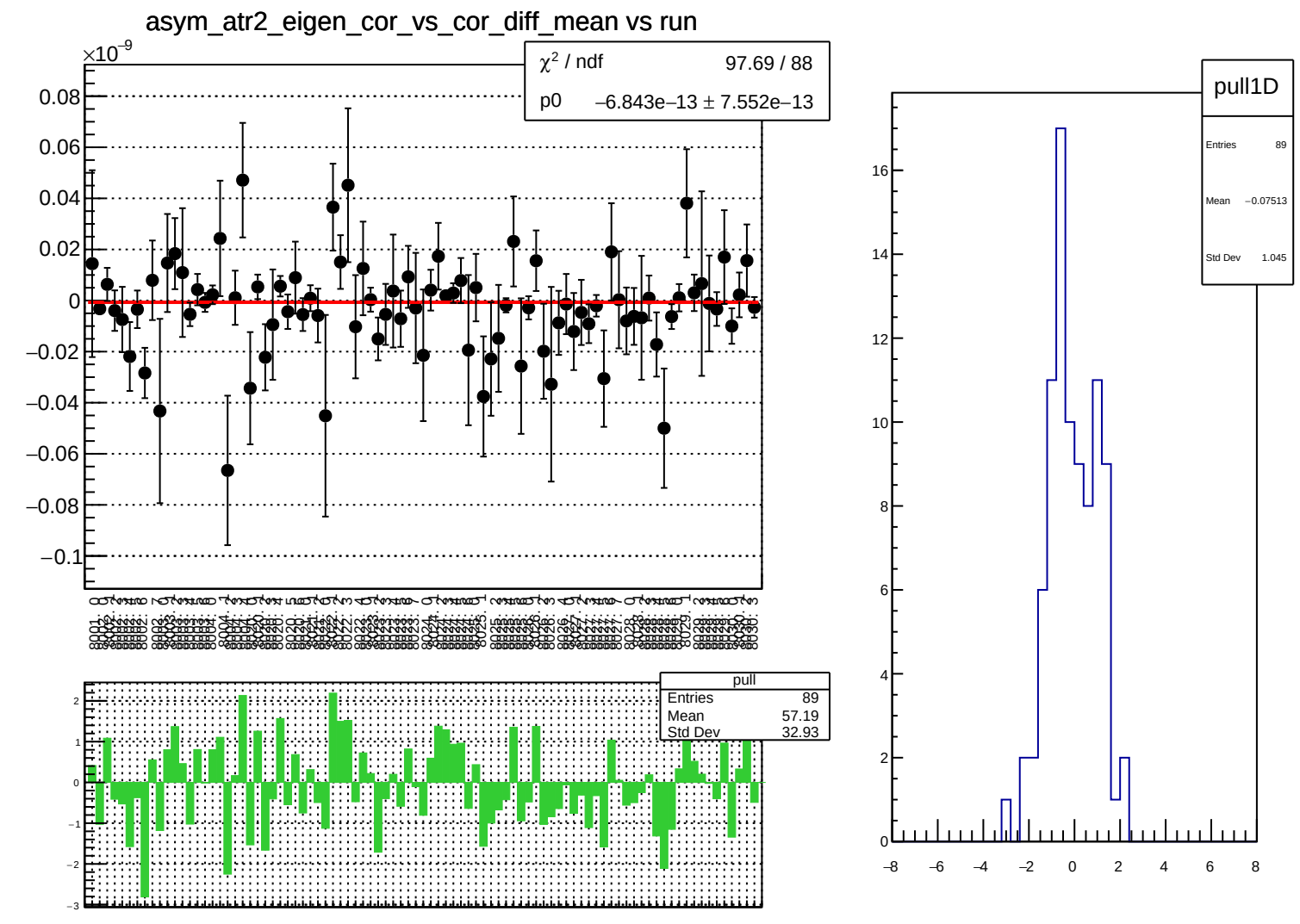

asym_atr2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 118.9 / 88
p0 0.4242 ± 0.5325
pull
Entries 89
Mean 55.15
Std Dev 0

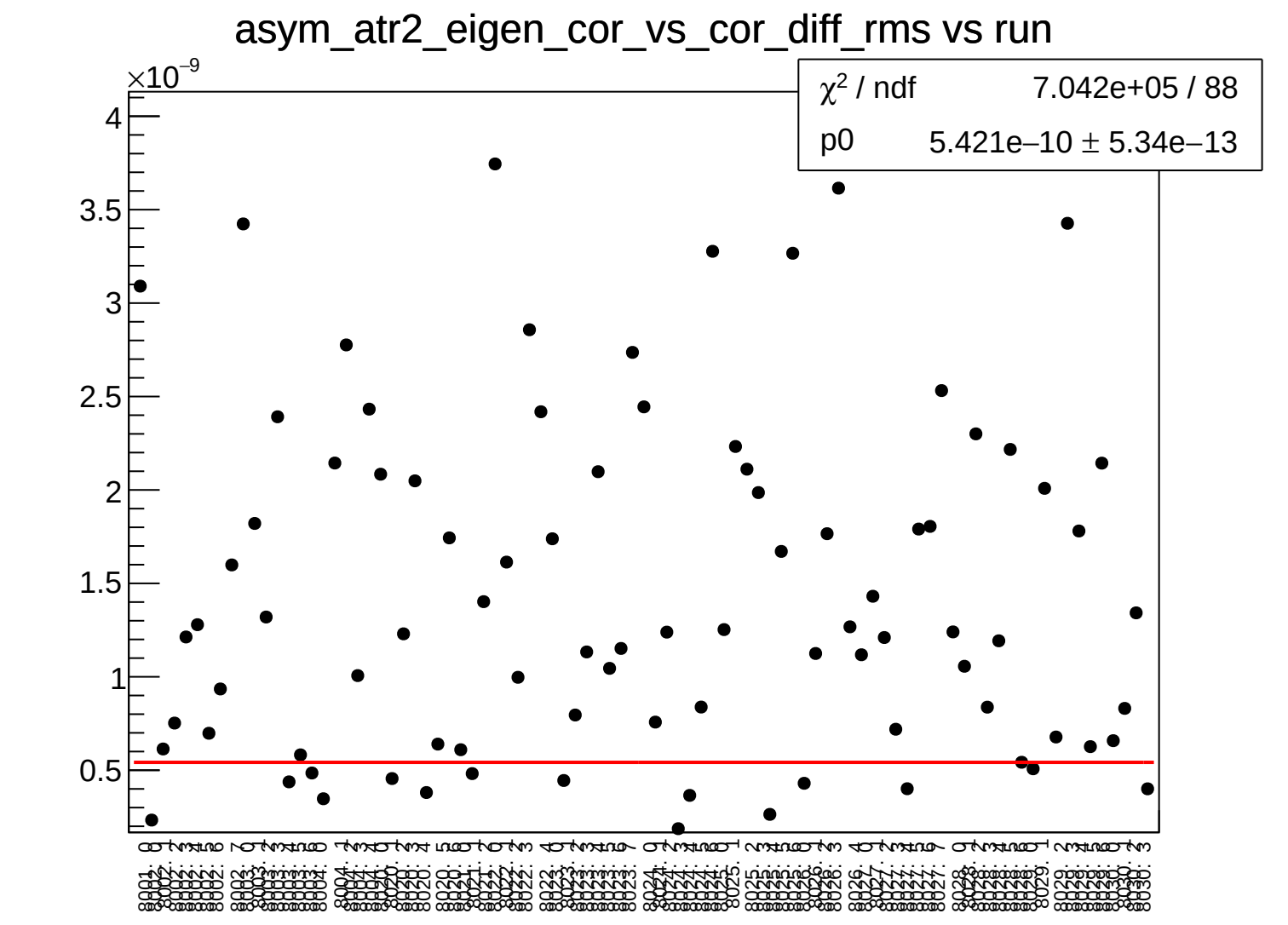

pull1D
Entries 89
Mean −0.0151
Std Dev 1.156

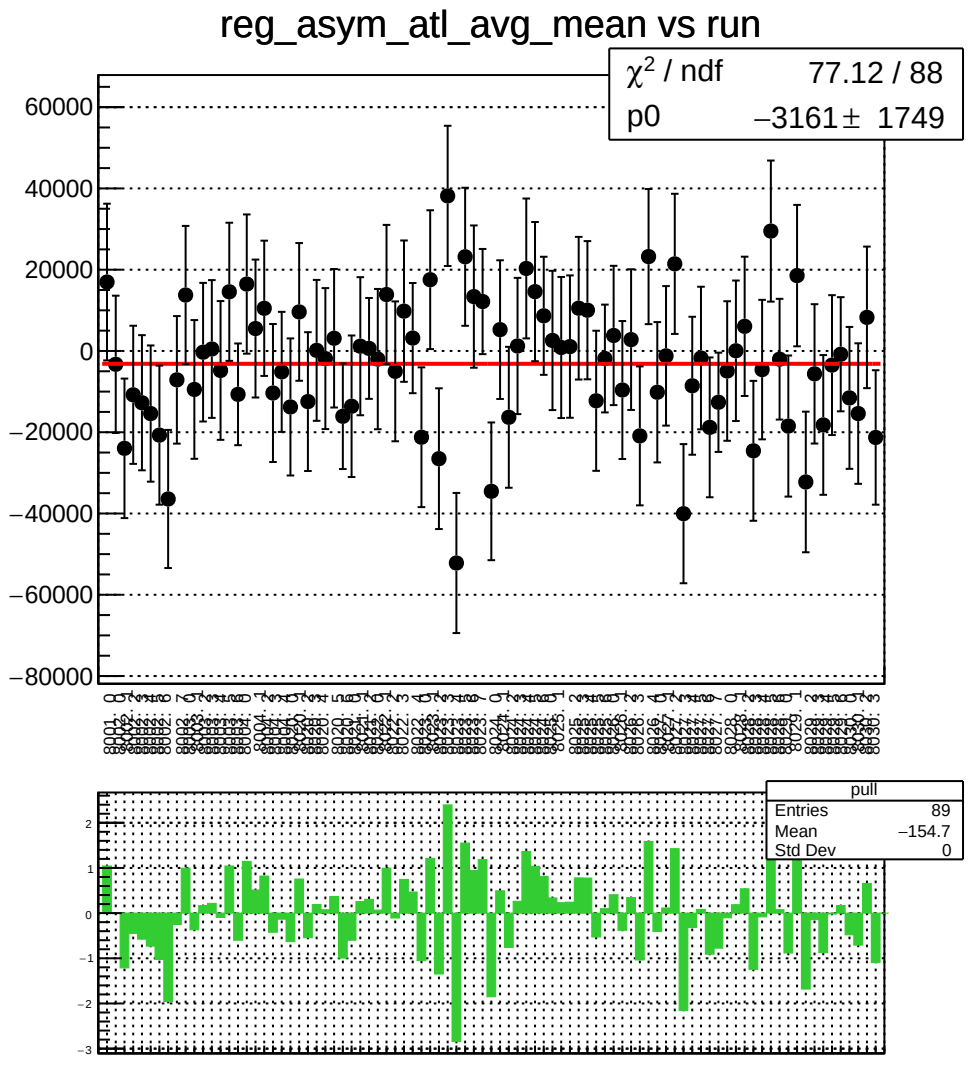

asym_atr2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.017e+04 / 88
p0 490.1 ± 0.3765
800
700
600
500
400

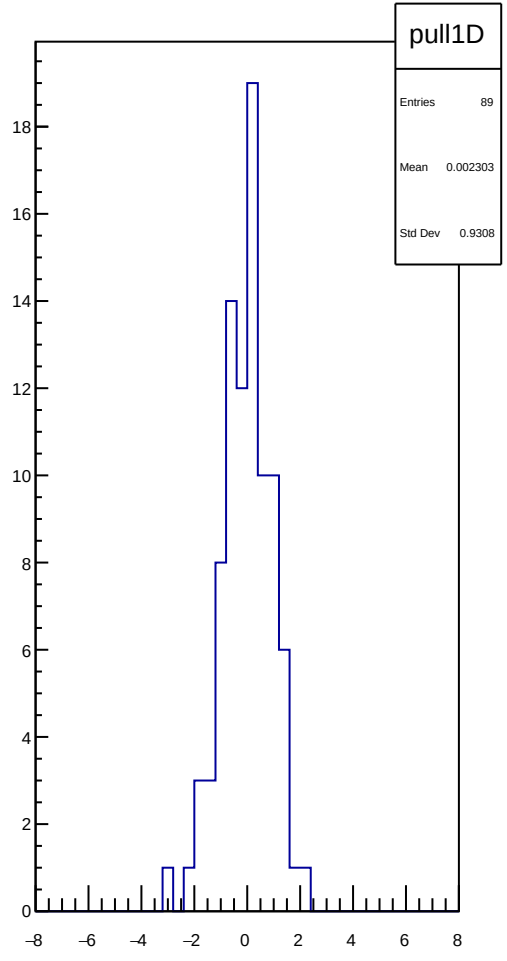

asym_atr2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 118.9 / 88
p0 0.4242 ± 0.5325
pull
Entries 89
Mean 55.15
Std Dev 0
pull1D
Entries 89
Mean −0.0151
Std Dev 1.156

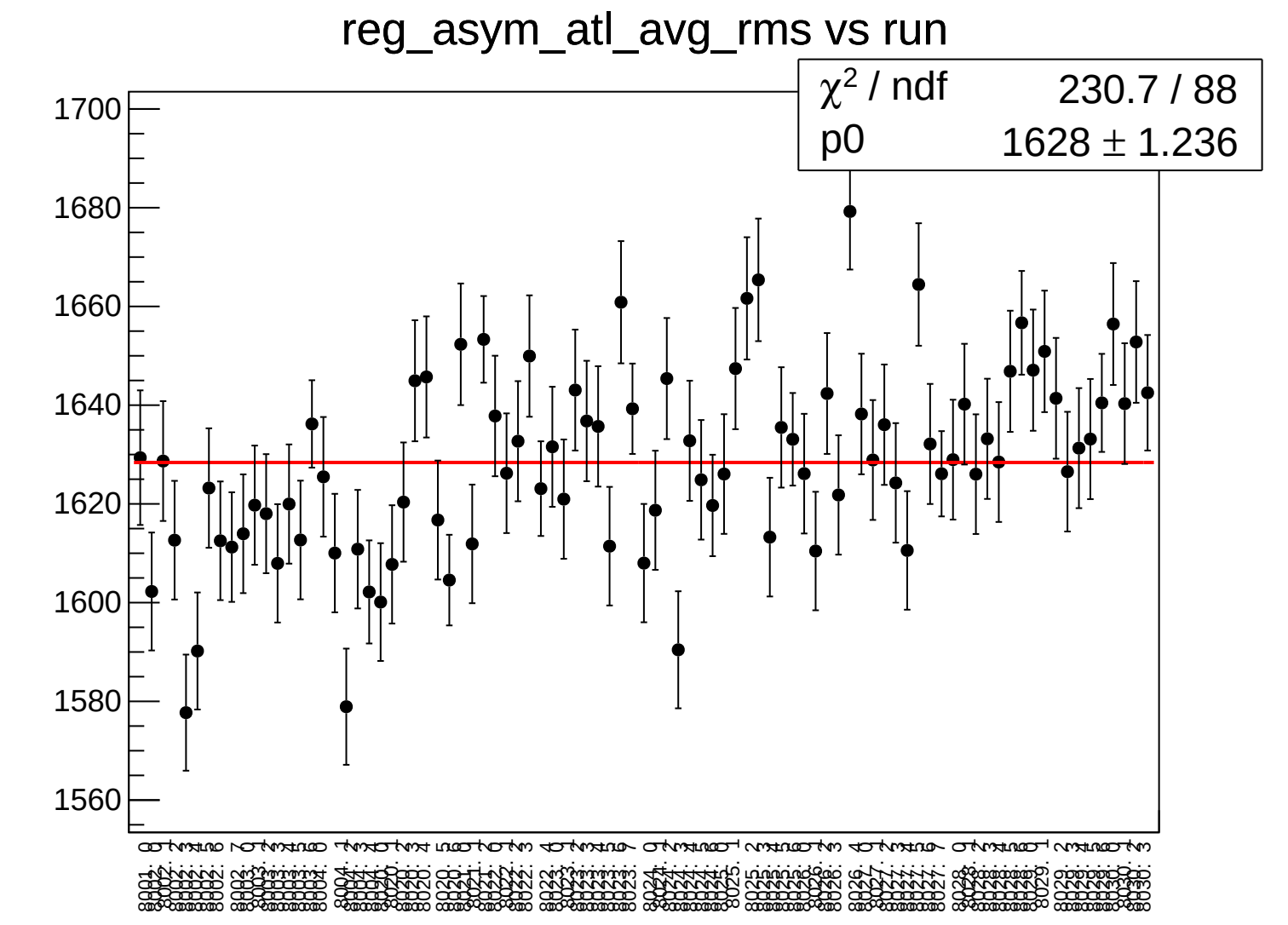

asym_atr2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.017e+04 / 88
p0 490.1 ± 0.3765
800
700
600
500
400

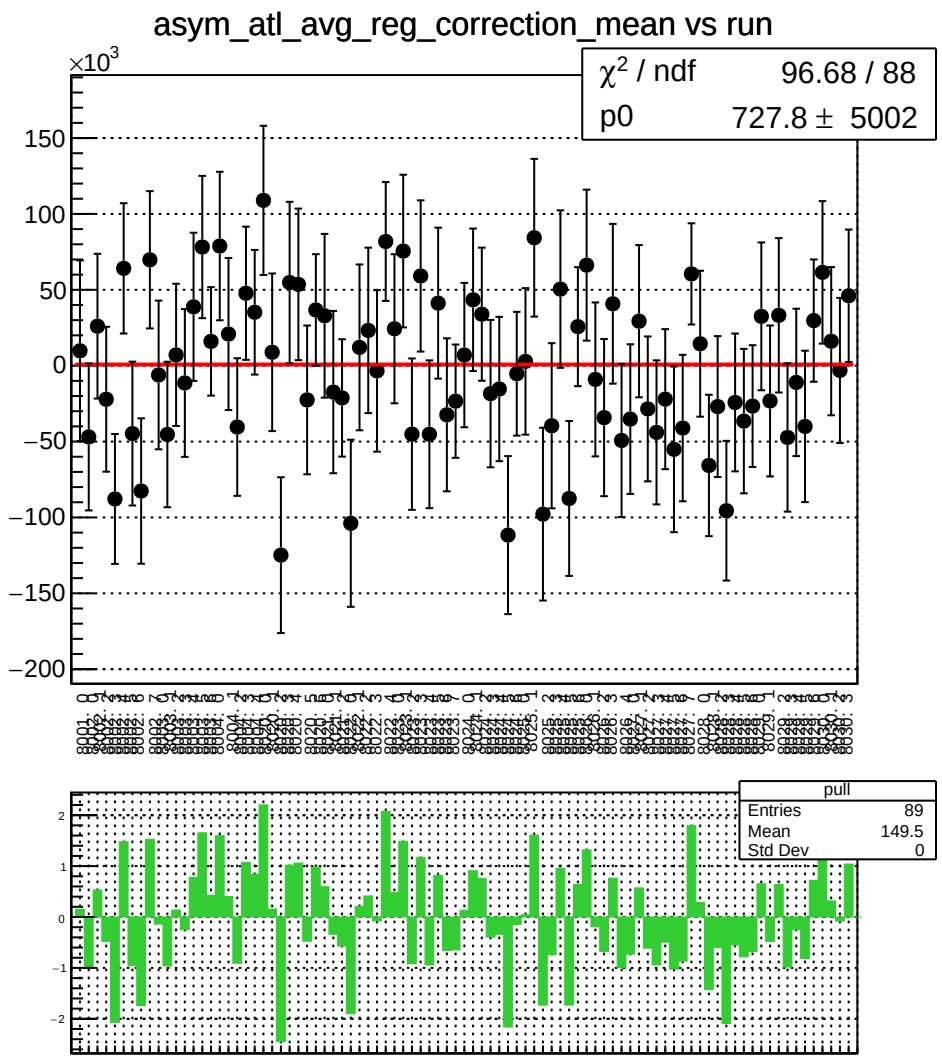

asym_atr2_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 97.69 / 88
p0 −6.843e−13 ± 7.552e−13
pull
Entries 89
Mean 57.19
Std Dev 32.93
pull1D
Entries 89
Mean −0.07513
Std Dev 1.045

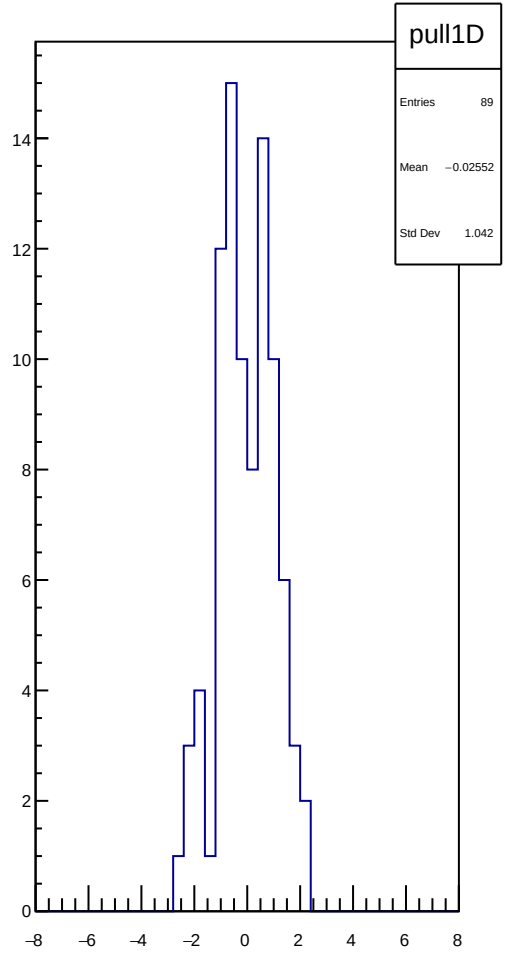

asym_atr2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.042e+05 / 88
p0 5.421e−10 ± 5.34e−13
4
3.5
3
2.5
2
1.5
1
0.5

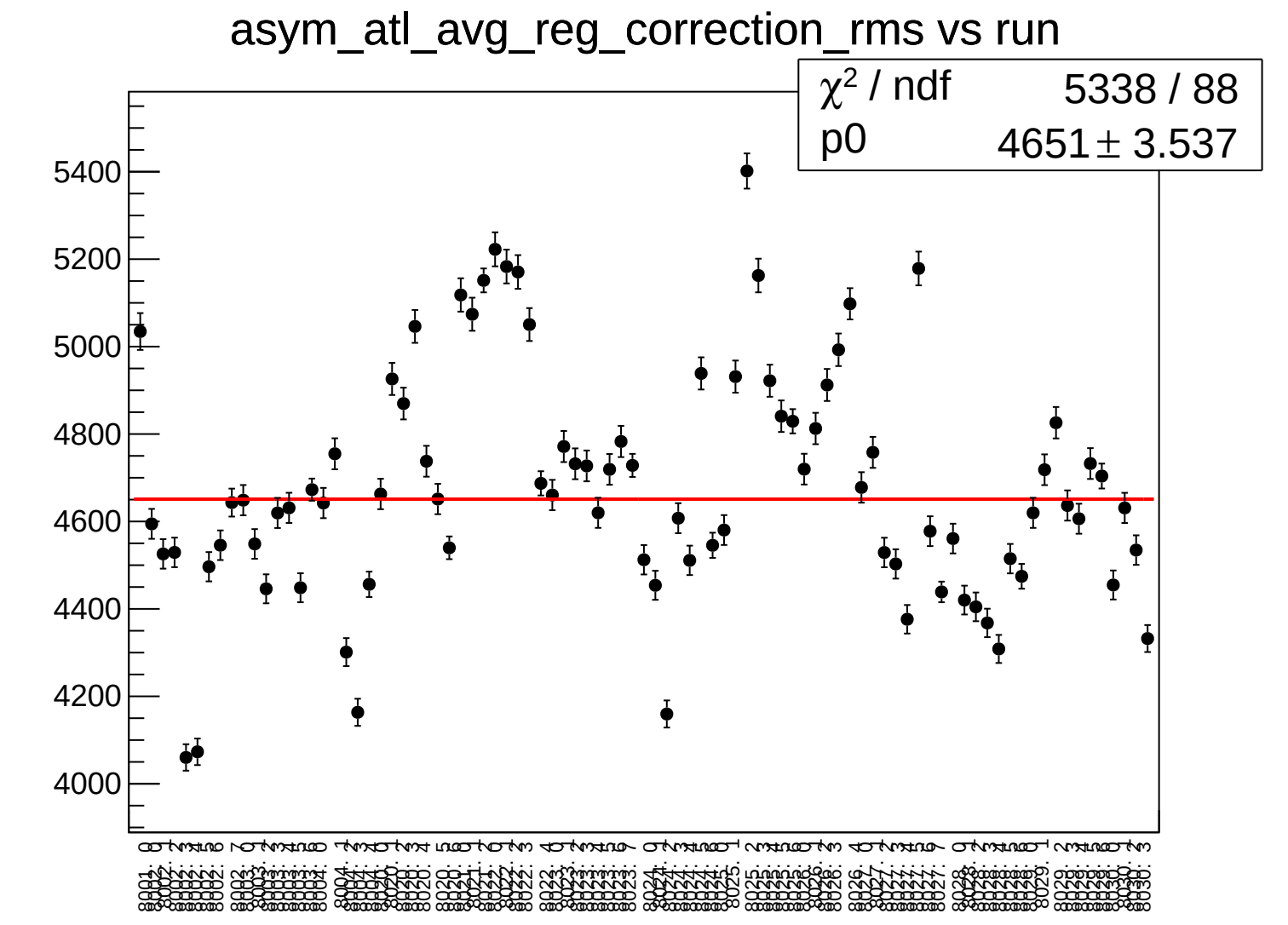

reg_asym_atl_avg_mean vs run
χ² / ndf 77.12 / 88
p0 −3161 ± 1749
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −154.7
Std Dev 0
2
1
0
−1
−2
−3

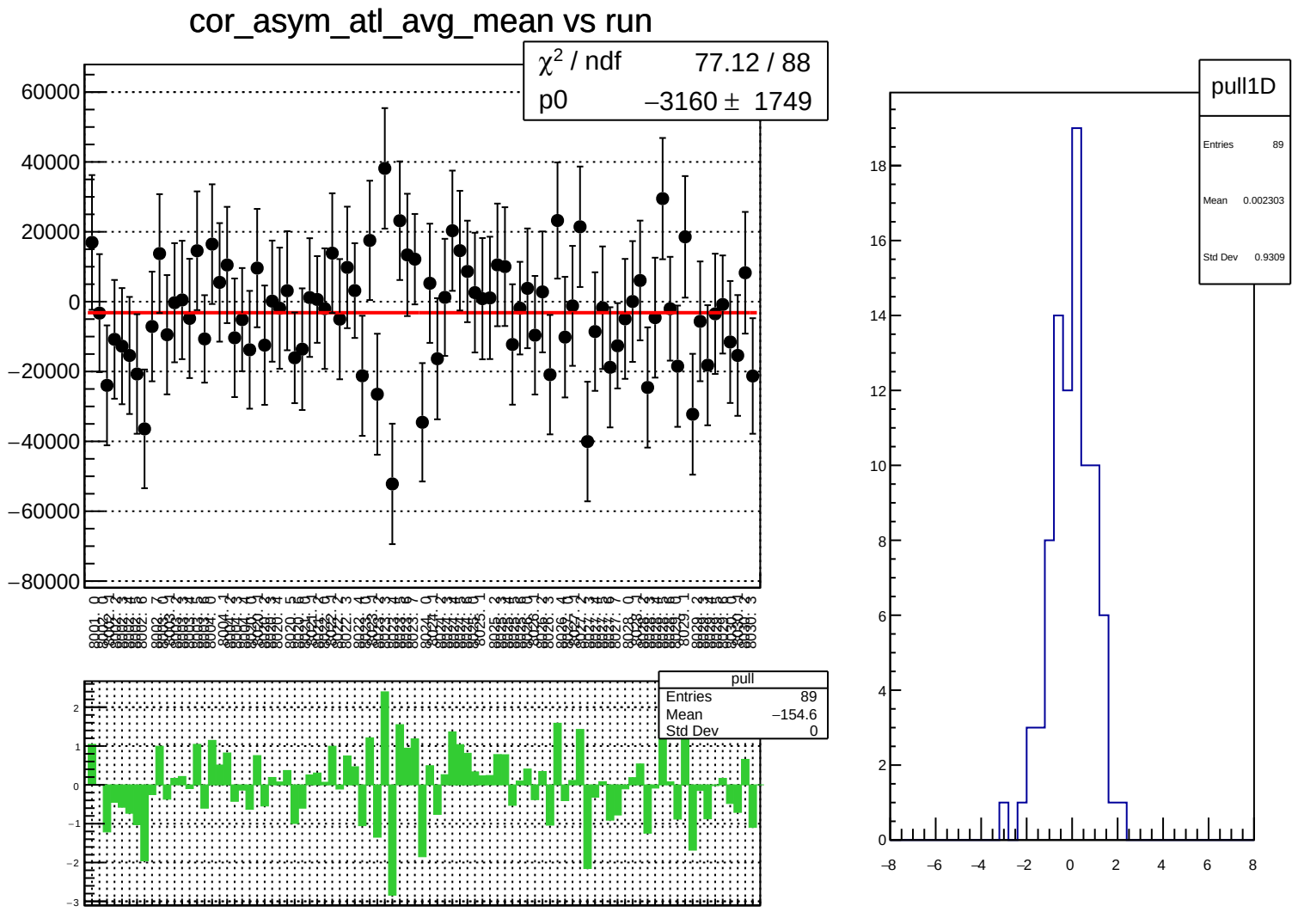

pull1D
Entries 89
Mean 0.002303
Std Dev 0.9308
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

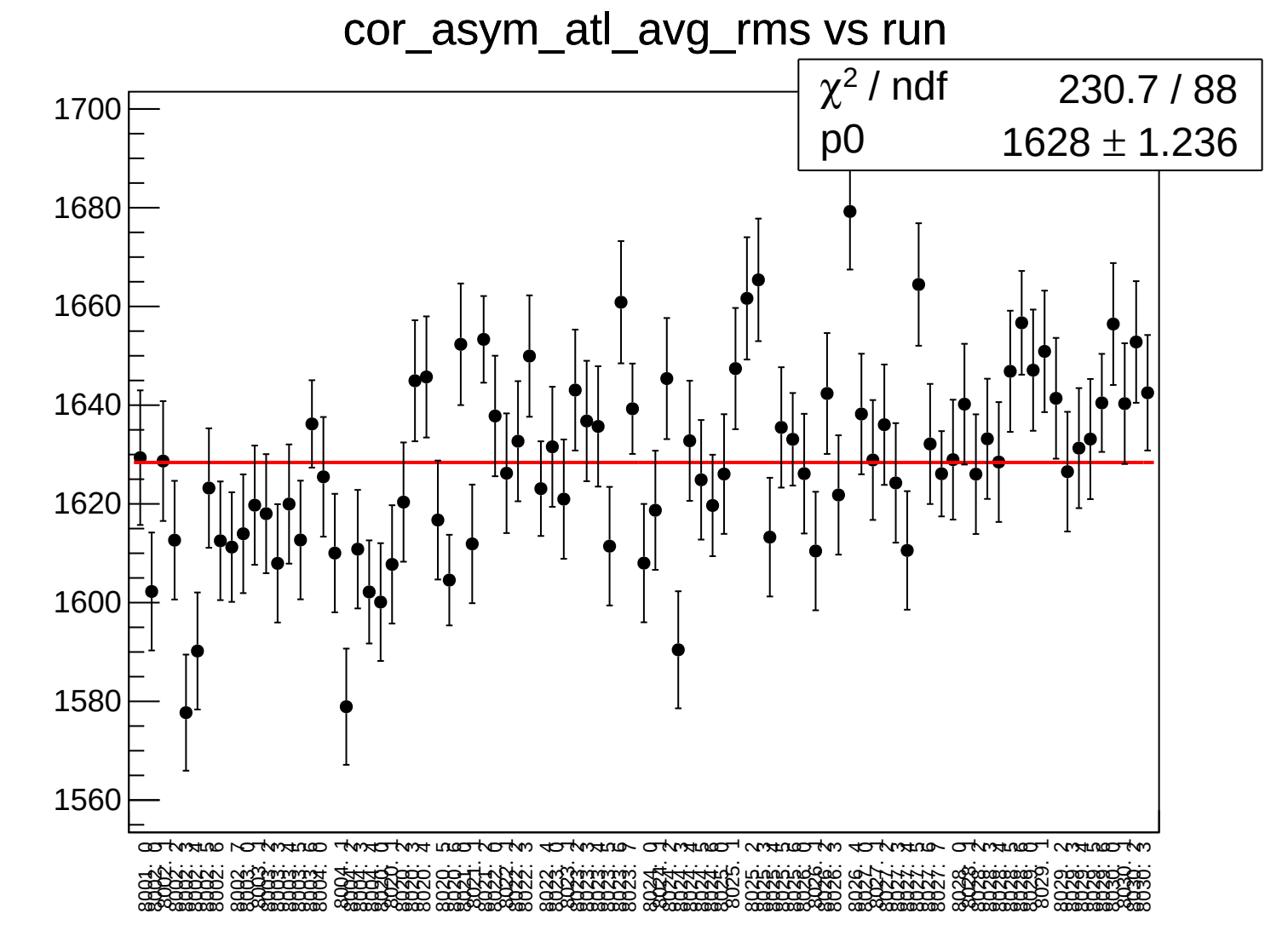

reg_asym_atl_avg_rms vs run
χ² / ndf 230.7 / 88
p0 1628 ± 1.236
1700
1680
1660
1640
1620
1600
1580
1560

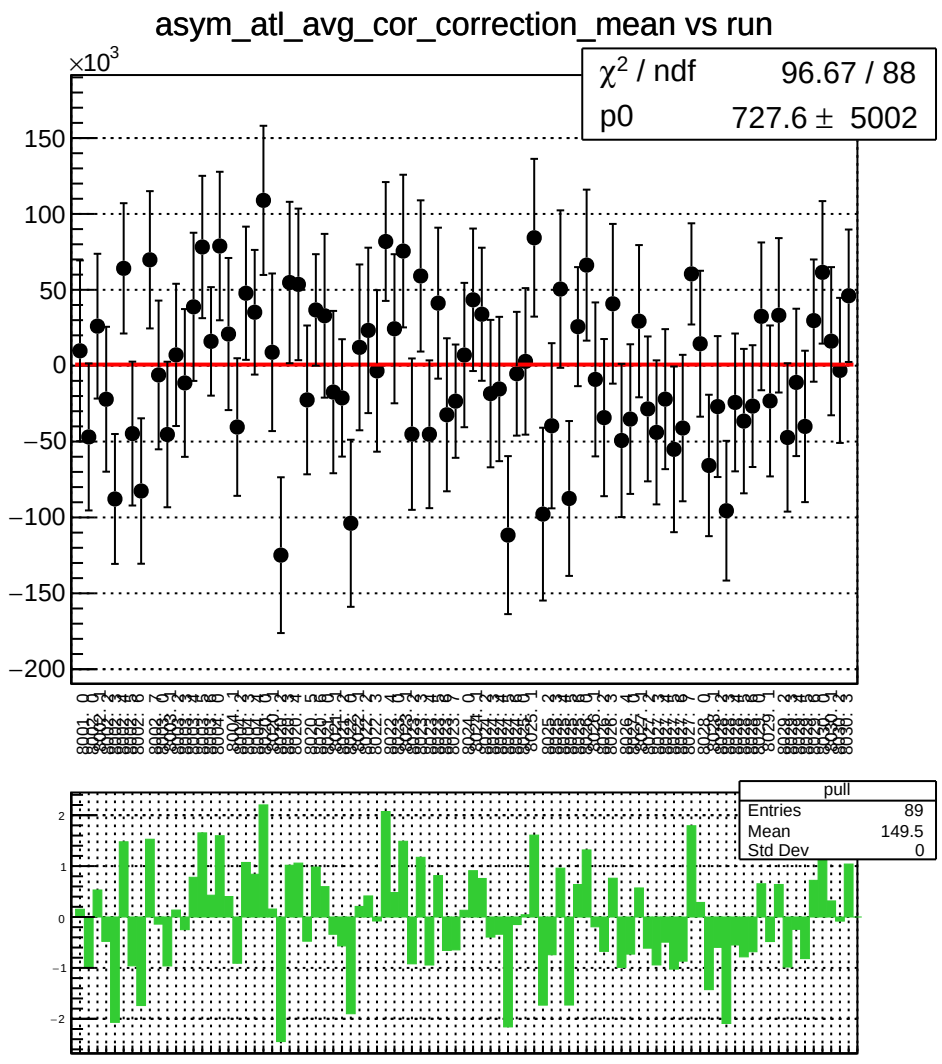

asym_atl_avg_reg_correction_mean vs run
×10^3
χ² / ndf 96.68 / 88
p0 727.8 ± 5002
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean 149.5
Std Dev 0
2
1
0
−1
−2

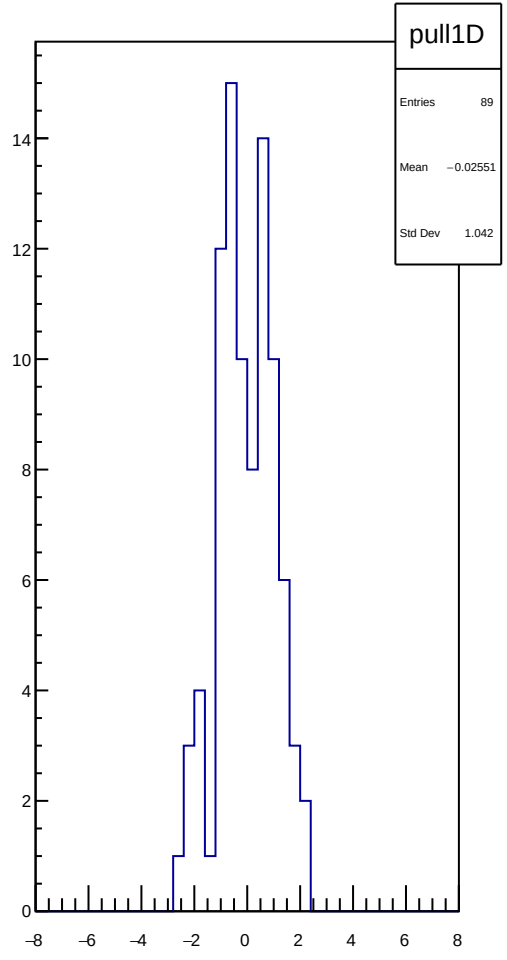

pull1D
Entries 89
Mean −0.02552
Std Dev 1.042
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

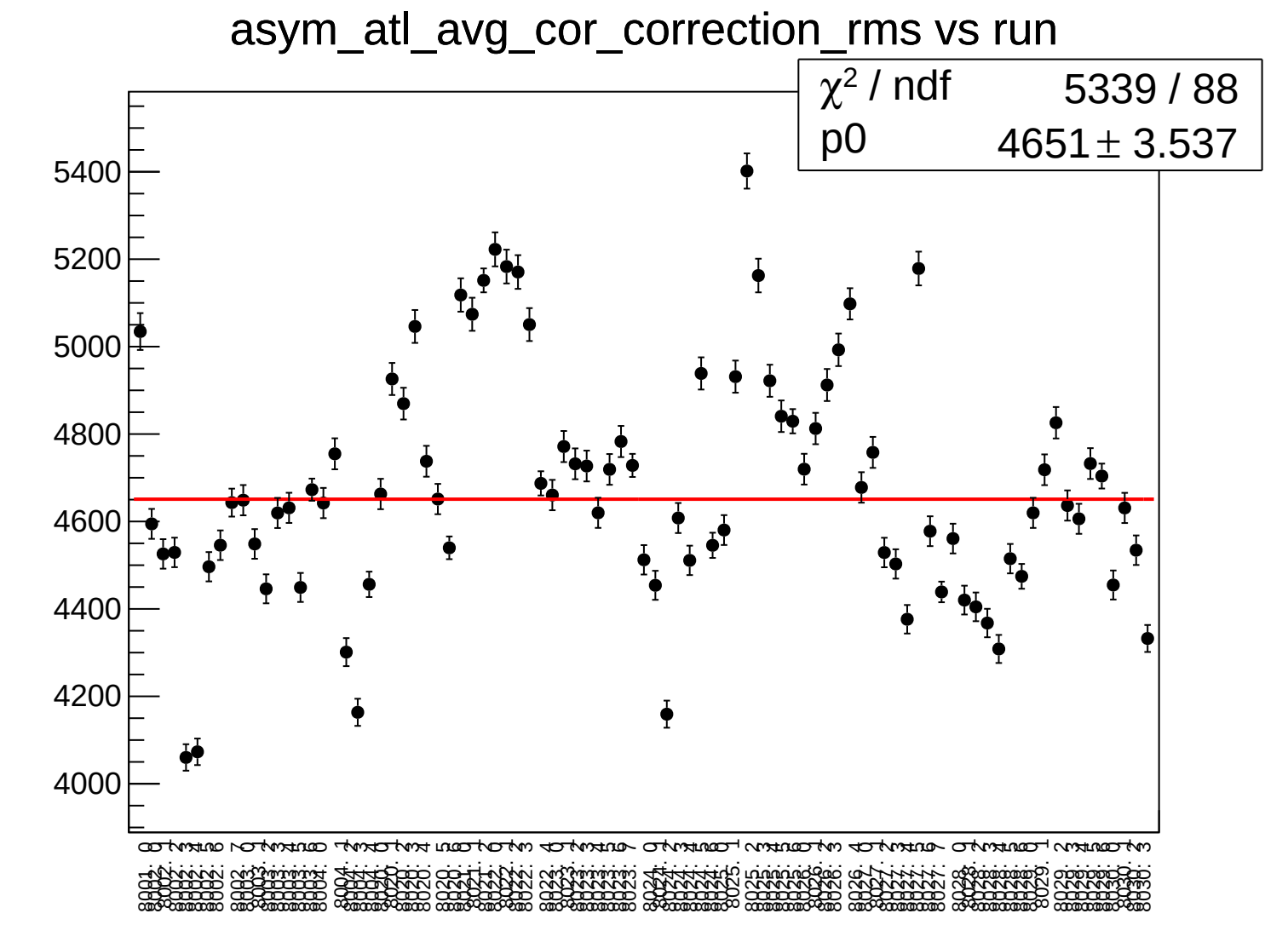

asym_atl_avg_reg_correction_rms vs run
χ² / ndf 5338 / 88
p0 4651 ± 3.537
5400
5200
5000
4800
4600
4400
4200
4000

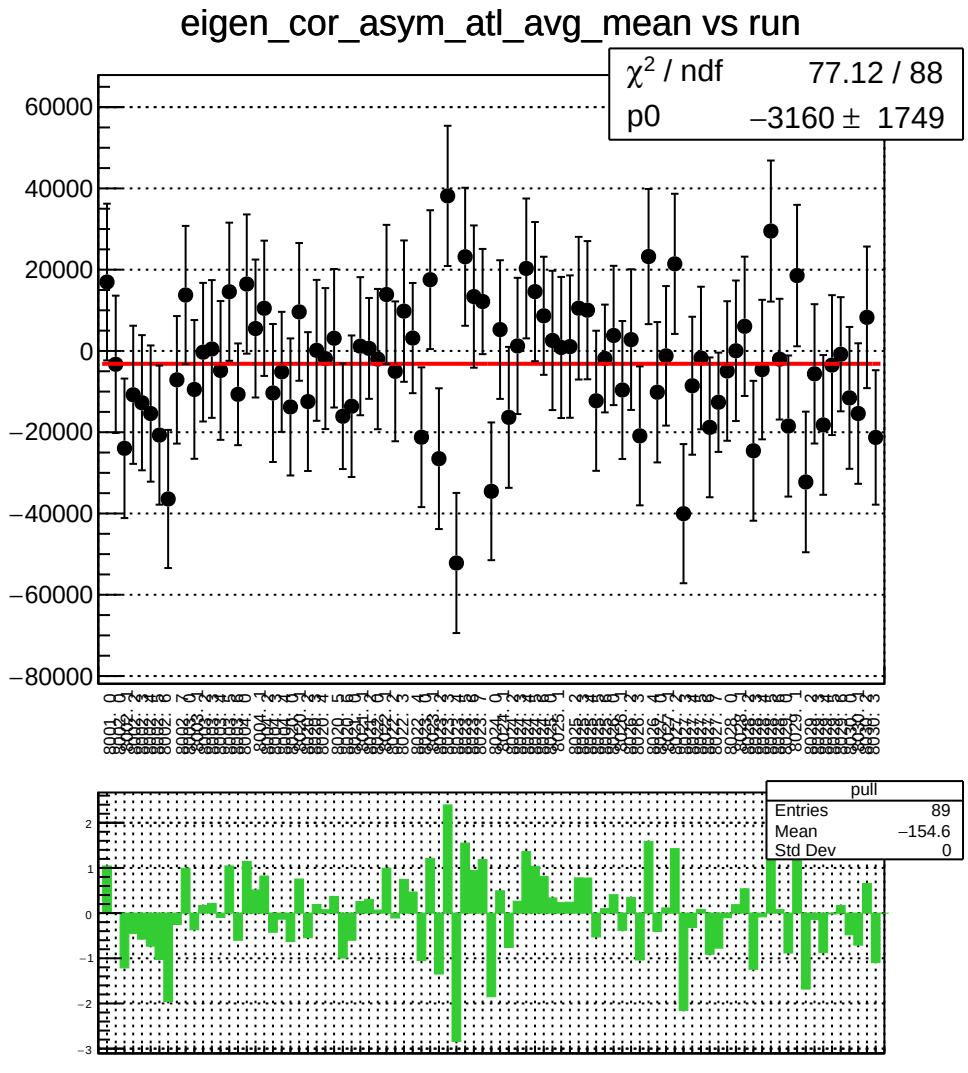

cor_asym_atl_avg_mean vs run
χ² / ndf 77.12 / 88
p0 −3160 ± 1749
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −154.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean 0.002303
Std Dev 0.9309
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

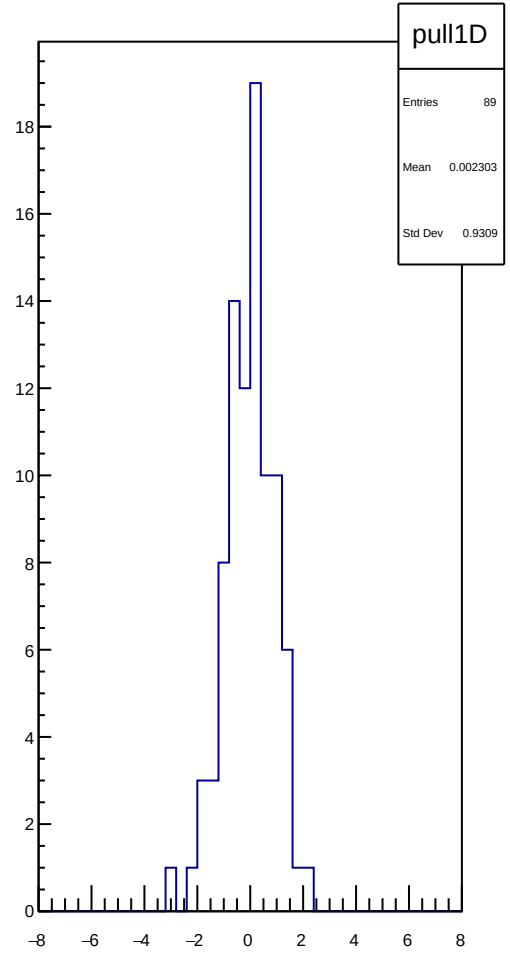

cor_asym_atl_avg_rms vs run
χ² / ndf 230.7 / 88
p0 1628 ± 1.236
1700
1680
1660
1640
1620
1600
1580
1560

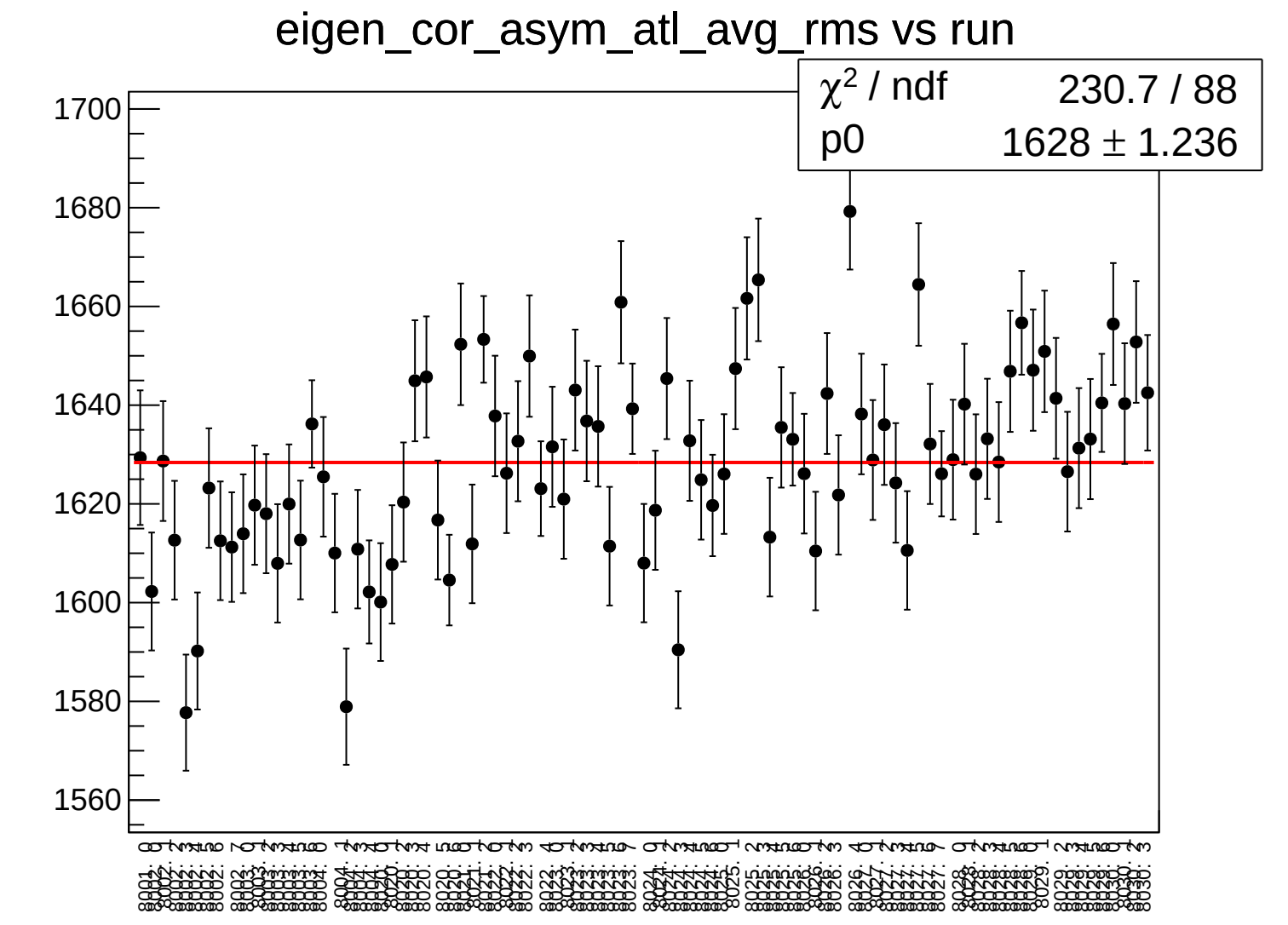

asym_atl_avg_cor_correction_mean vs run
×10^3
χ² / ndf 96.67 / 88
p0 727.6 ± 5002
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean 149.5
Std Dev 0
2
1
0
−1
−2

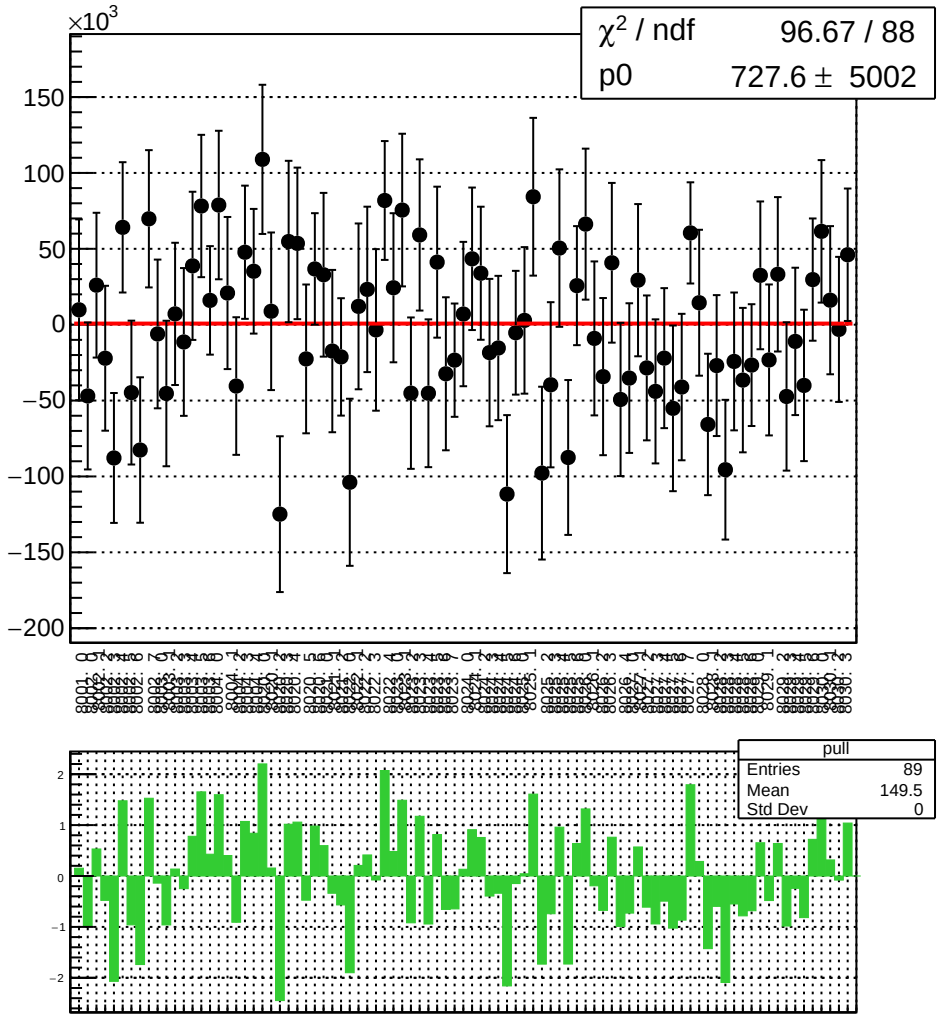

pull1D
Entries 89
Mean −0.02551
Std Dev 1.042
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

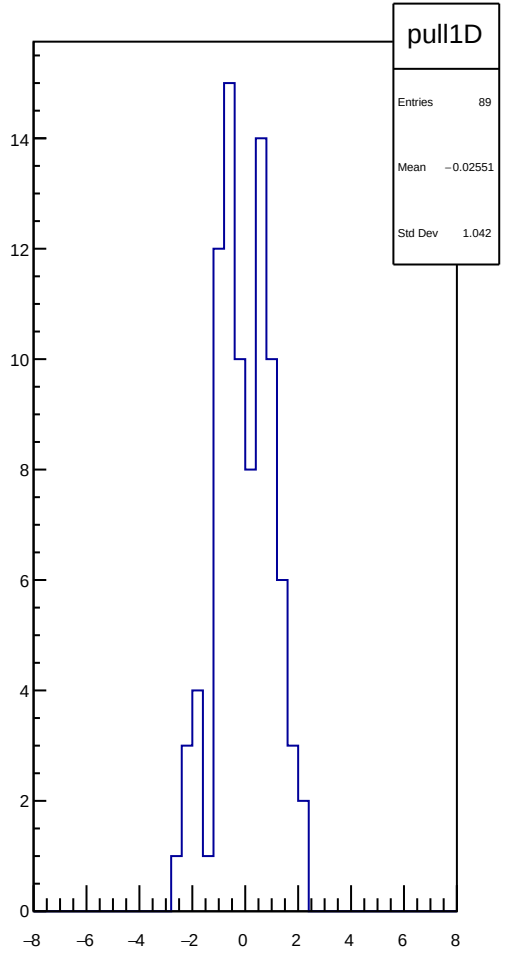

asym_atl_avg_cor_correction_rms vs run
χ² / ndf 5339 / 88
p0 4651 ± 3.537
5400
5200
5000
4800
4600
4400
4200
4000

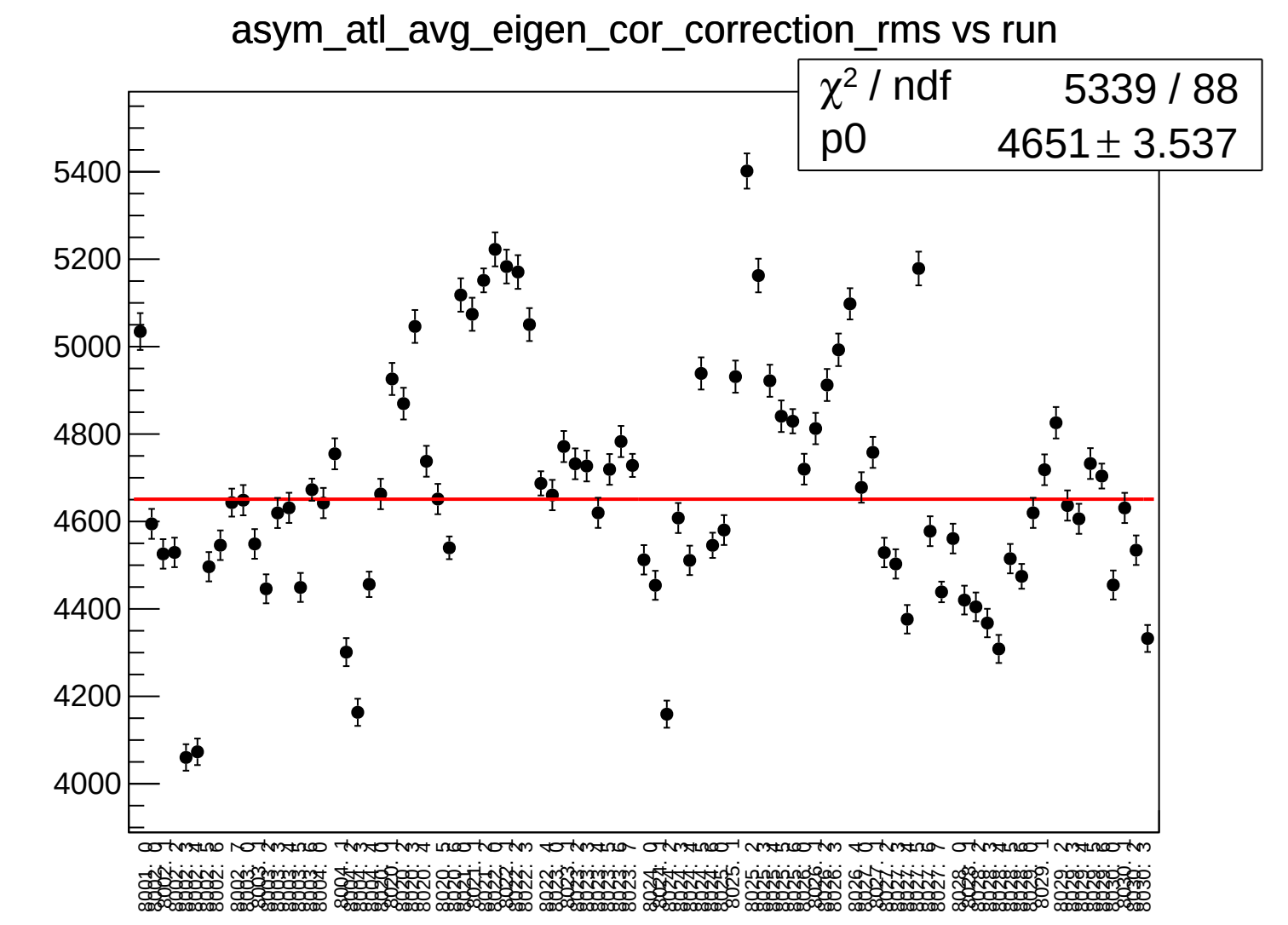

eigen_cor_asym_atl_avg_mean vs run
χ² / ndf 77.12 / 88
p0 −3160 ± 1749
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −154.6
Std Dev 0
2
1
0
−1
−2
−3

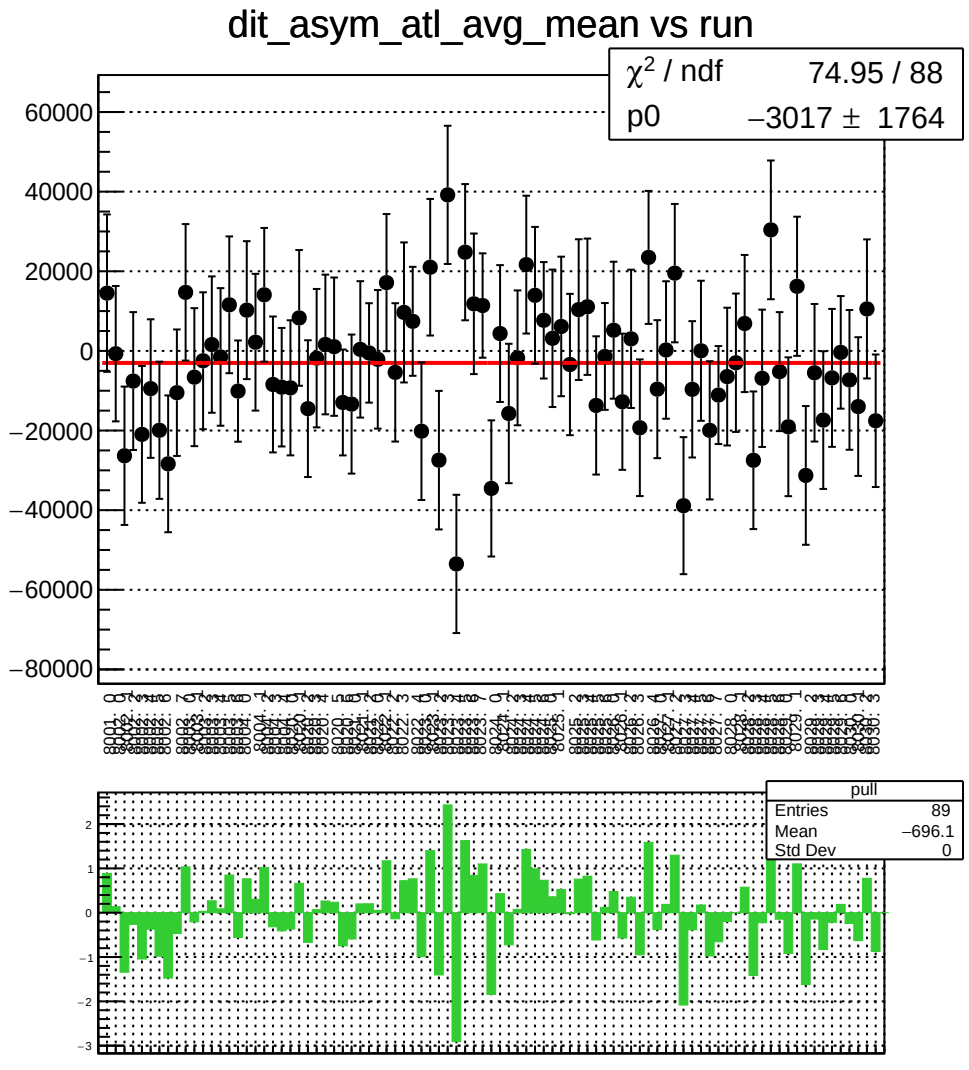

pull1D
Entries 89
Mean 0.002303
Std Dev 0.9309
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

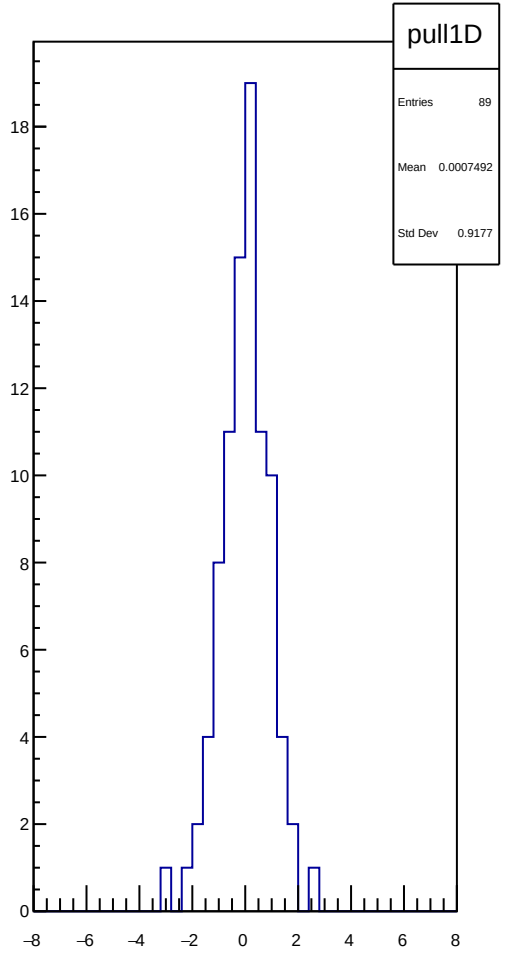

eigen_cor_asym_atl_avg_rms vs run
χ² / ndf 230.7 / 88
p0 1628 ± 1.236
1700
1680
1660
1640
1620
1600
1580
1560

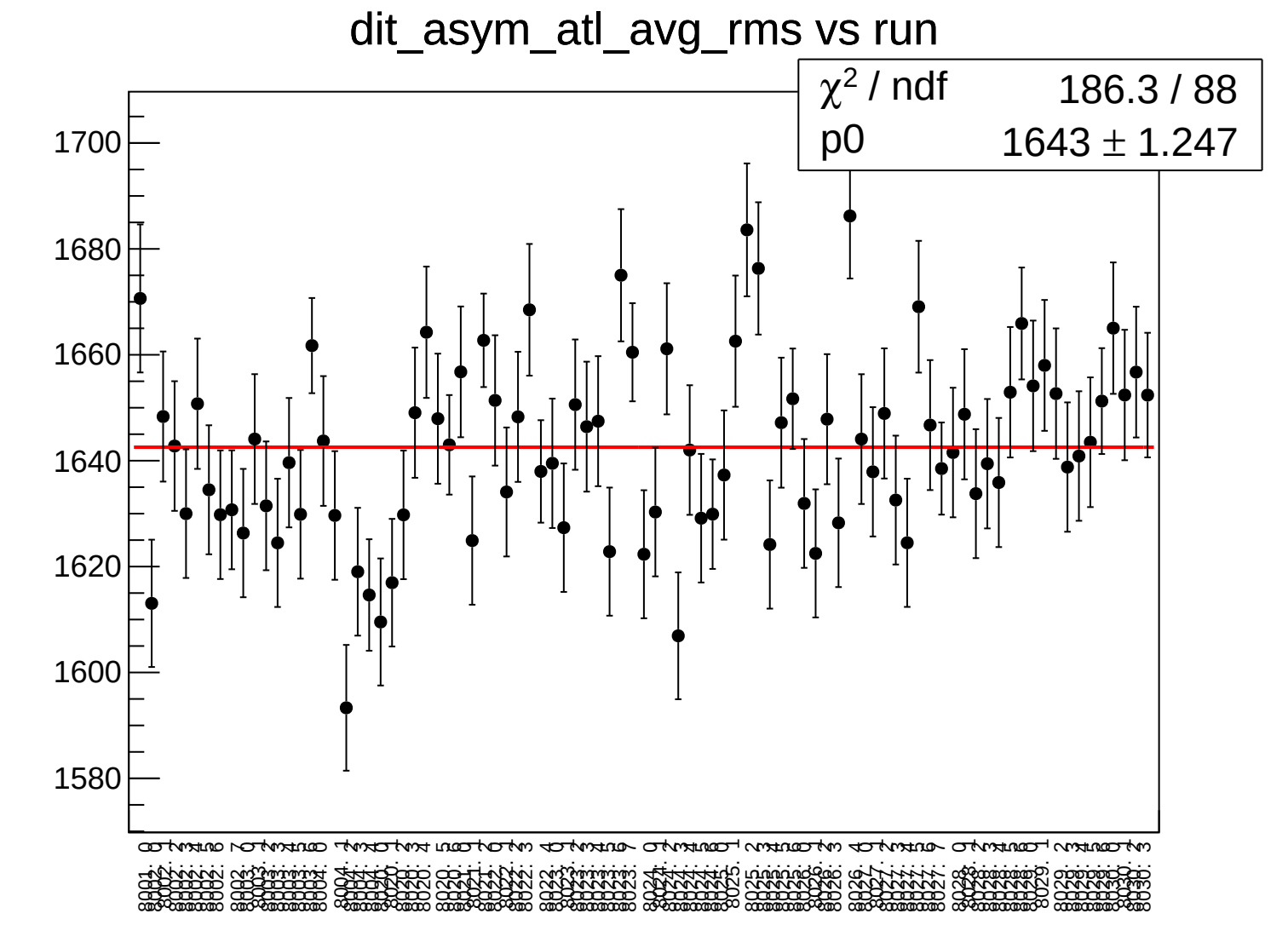

asym_atl_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 96.67 / 88
p0 727.6 ± 5002
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean 149.5
Std Dev 0
2
1
0
−1
−2

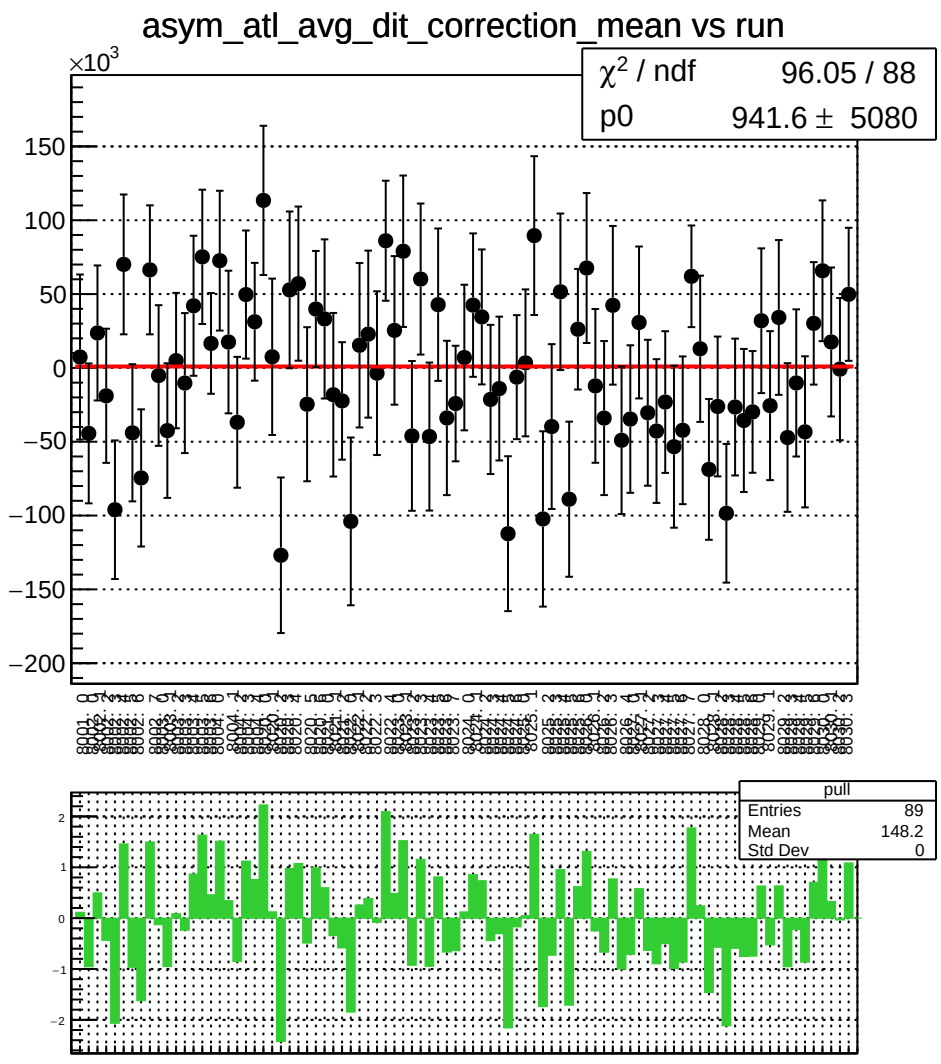

pull1D
Entries 89
Mean −0.02551
Std Dev 1.042
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

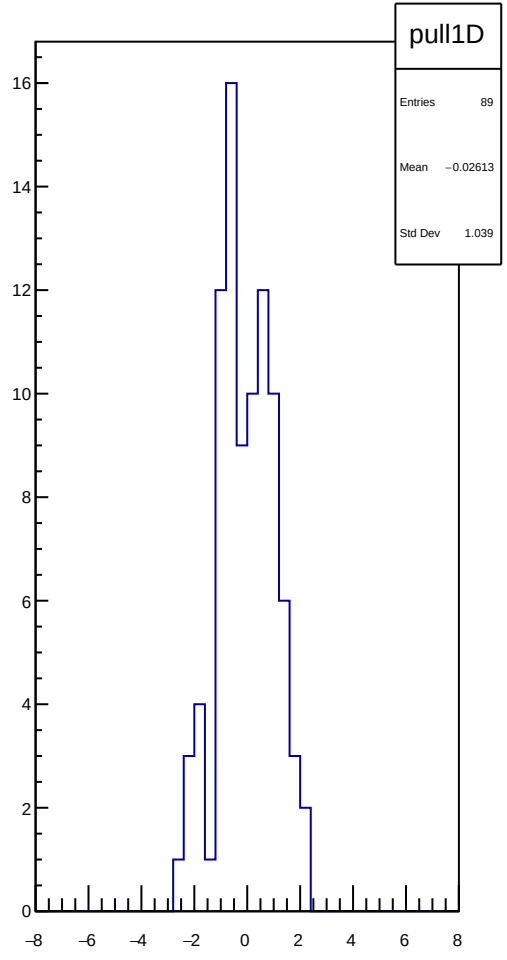

asym_atl_avg_eigen_cor_correction_rms vs run
χ² / ndf 5339 / 88
p0 4651 ± 3.537
5400
5200
5000
4800
4600
4400
4200
4000

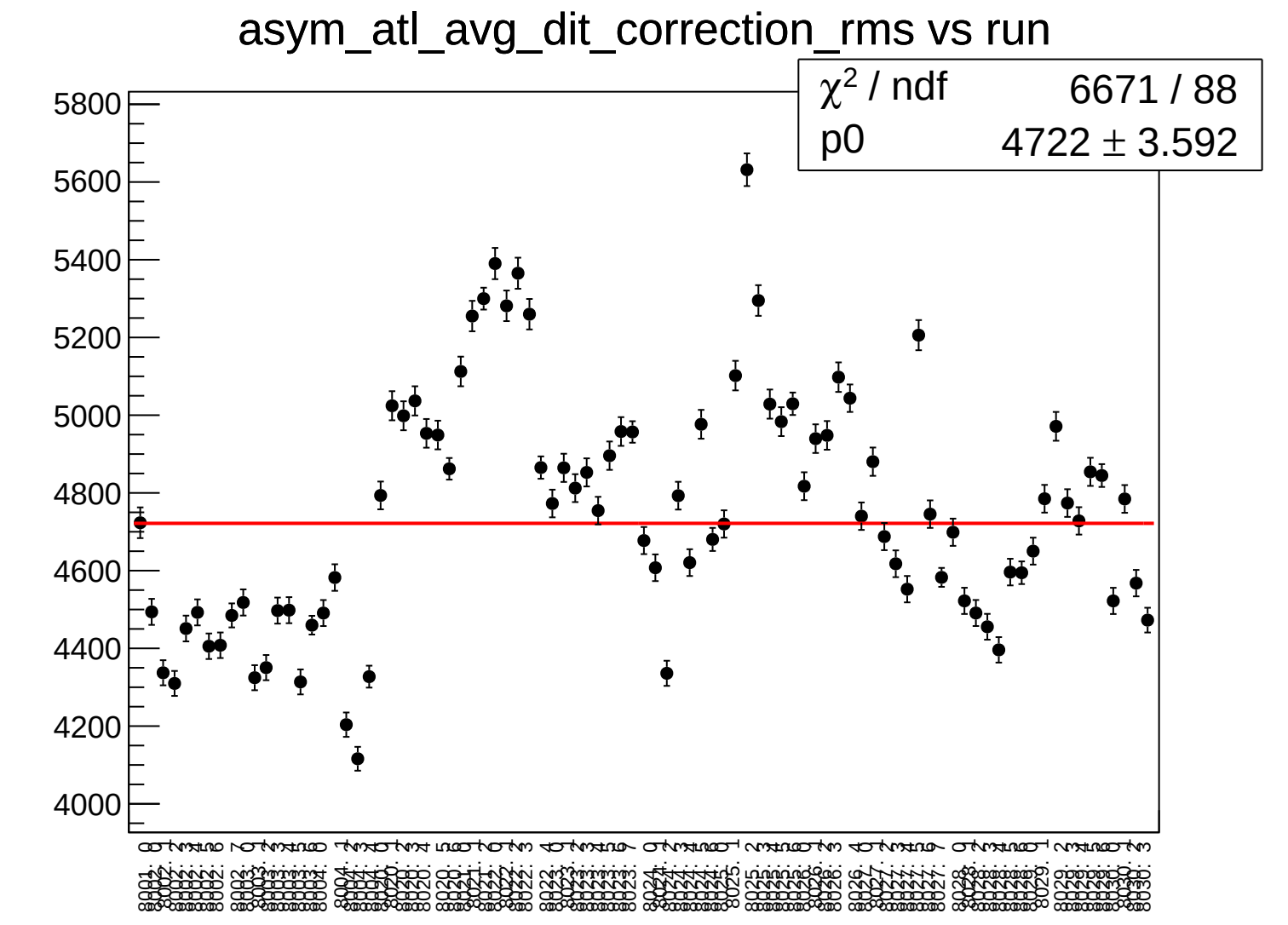

dit_asym_atl_avg_mean vs run
χ² / ndf 74.95 / 88
p0 −3017 ± 1764
pull
Entries 89
Mean −696.1
Std Dev 0

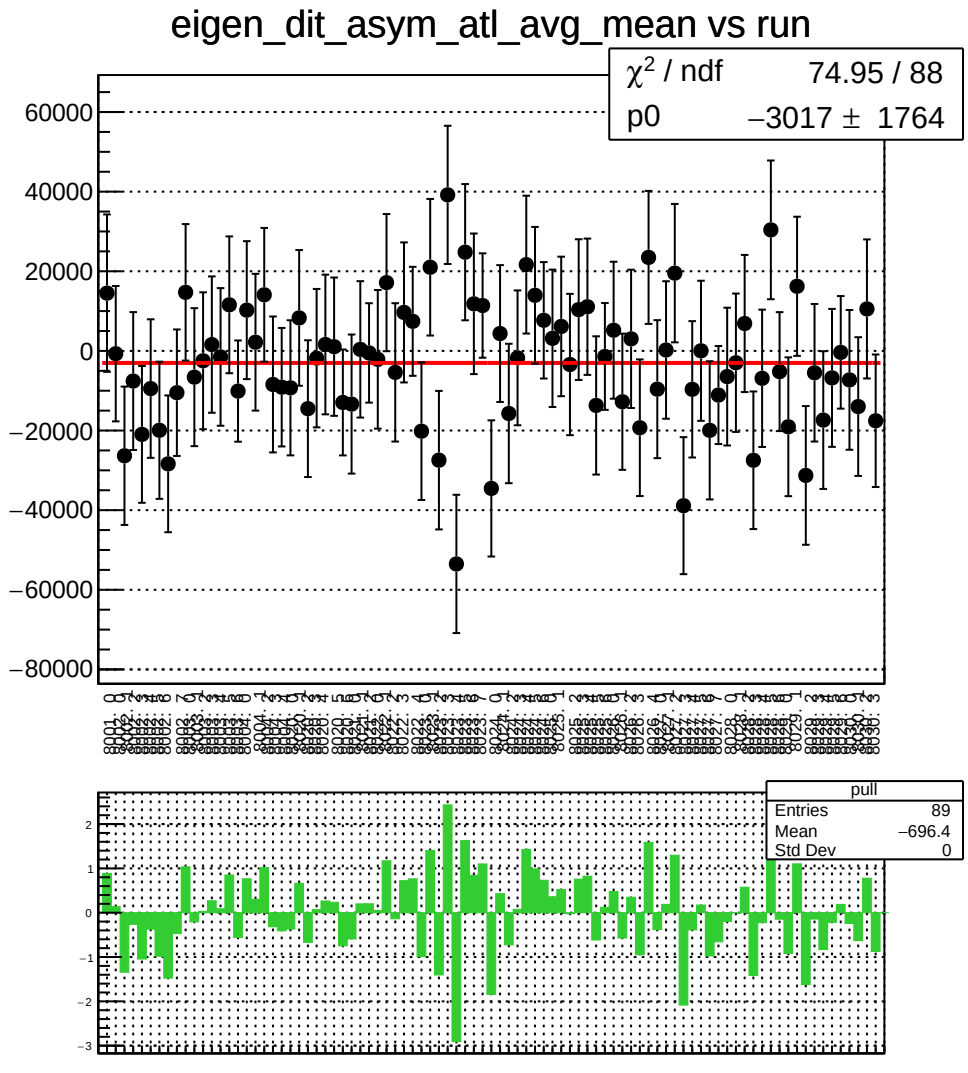

pull1D
Entries 89
Mean 0.0007492
Std Dev 0.9177

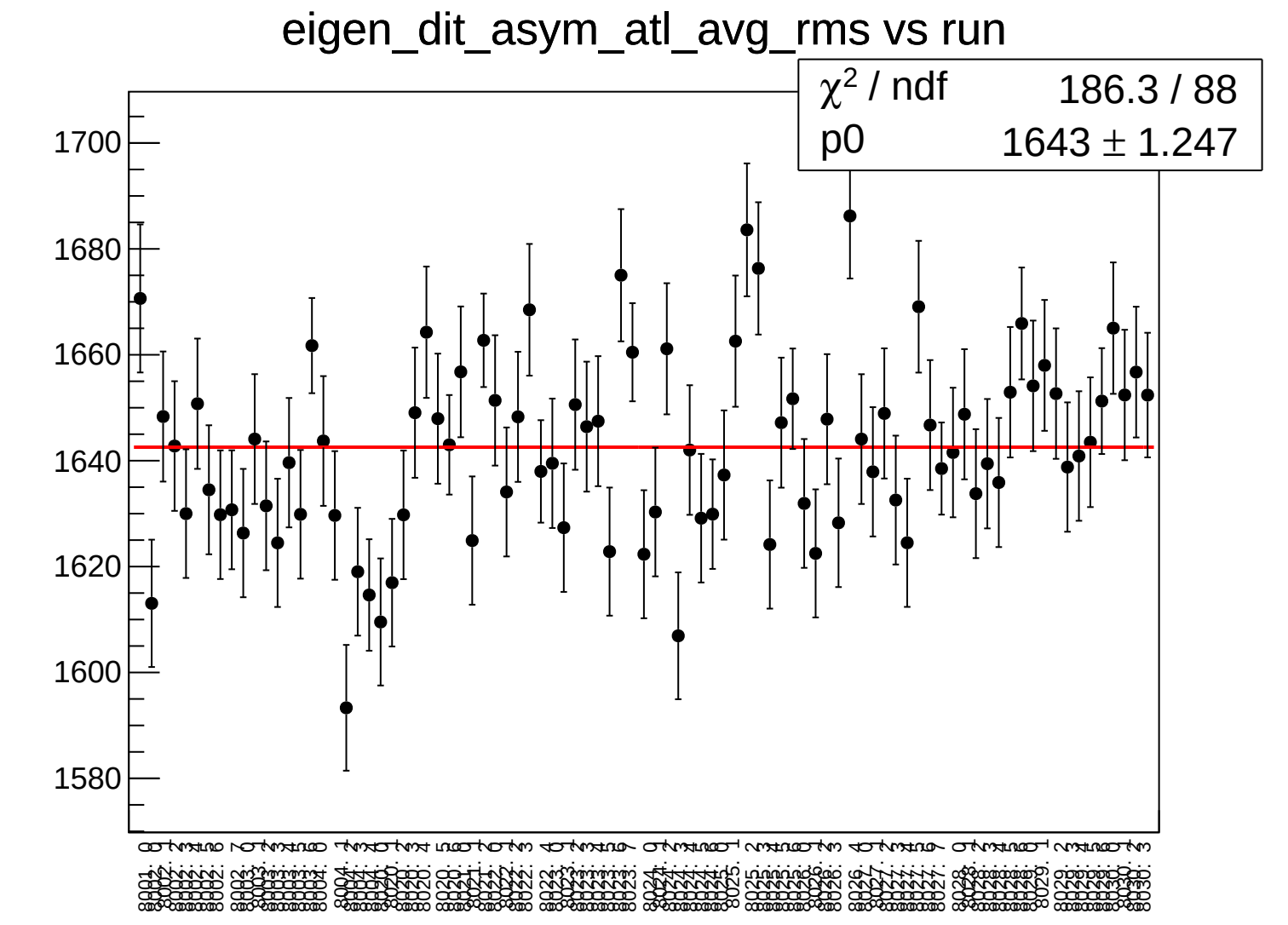

dit_asym_atl_avg_rms vs run
χ^2 / ndf 186.3 / 88
p0 1643 ± 1.247
1700
1680
1660
1640
1620
1600
1580

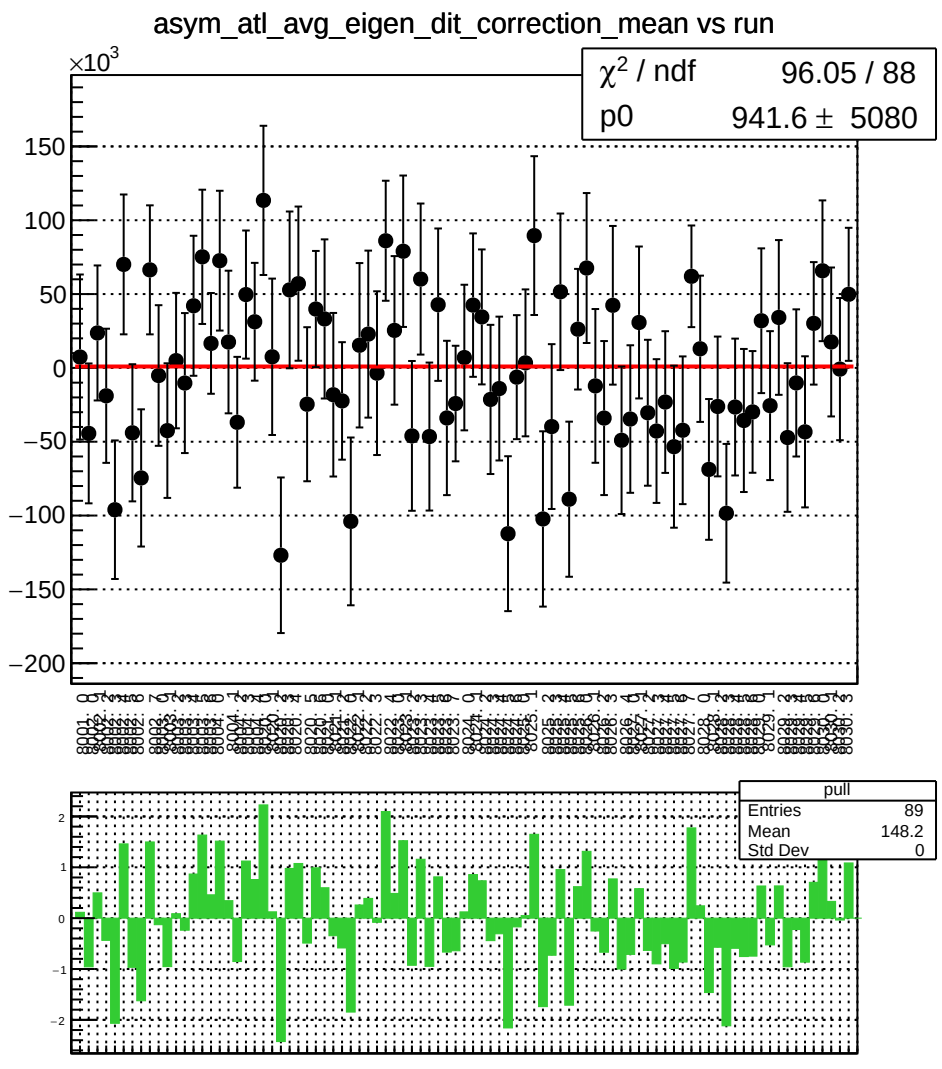

asym_atl_avg_dit_correction_mean vs run
×10^3
χ² / ndf 96.05 / 88
p0 941.6 ± 5080
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean 148.2
Std Dev 0
2
1
0
−1
−2

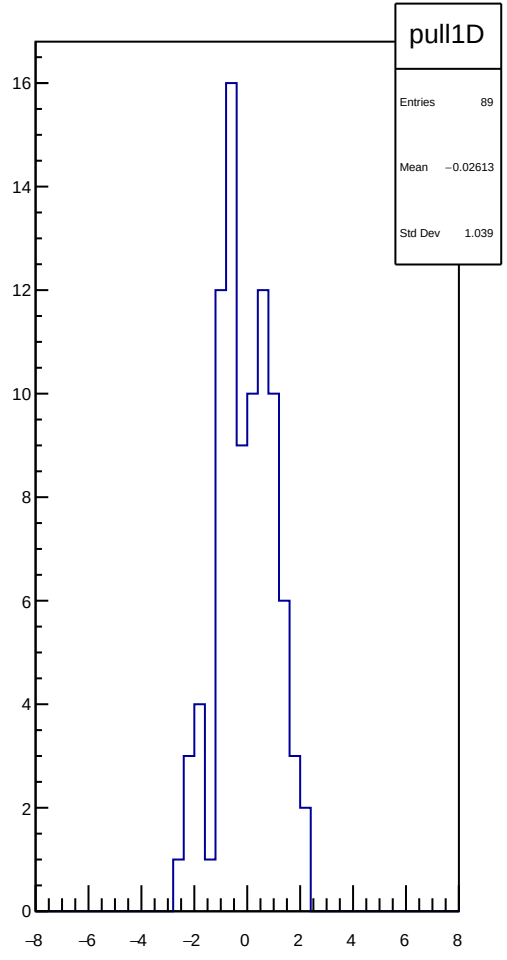

pull1D
Entries 89
Mean −0.02613
Std Dev 1.039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

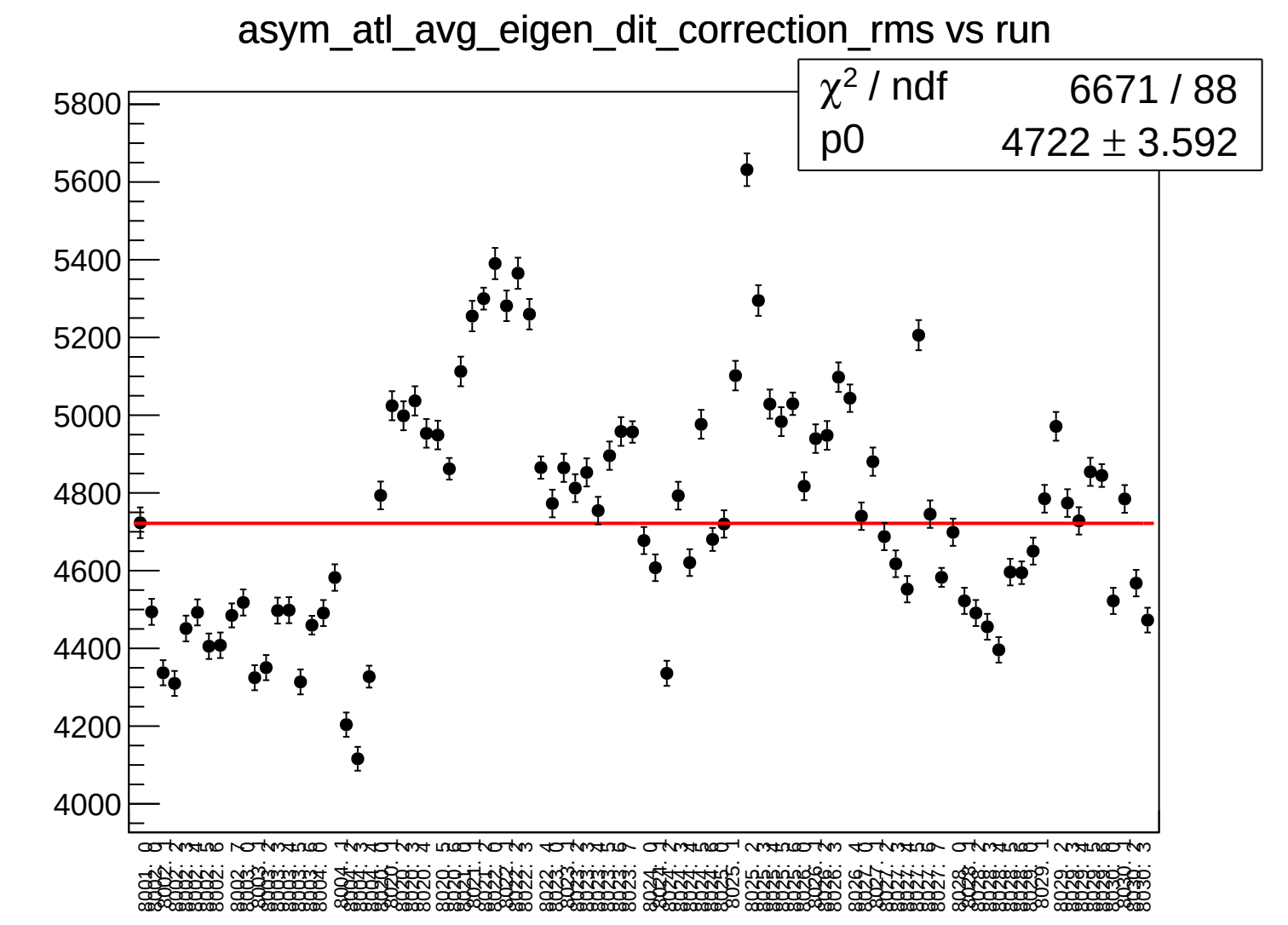

asym_atl_avg_dit_correction_rms vs run
χ² / ndf 6671 / 88
p0 4722 ± 3.592
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000

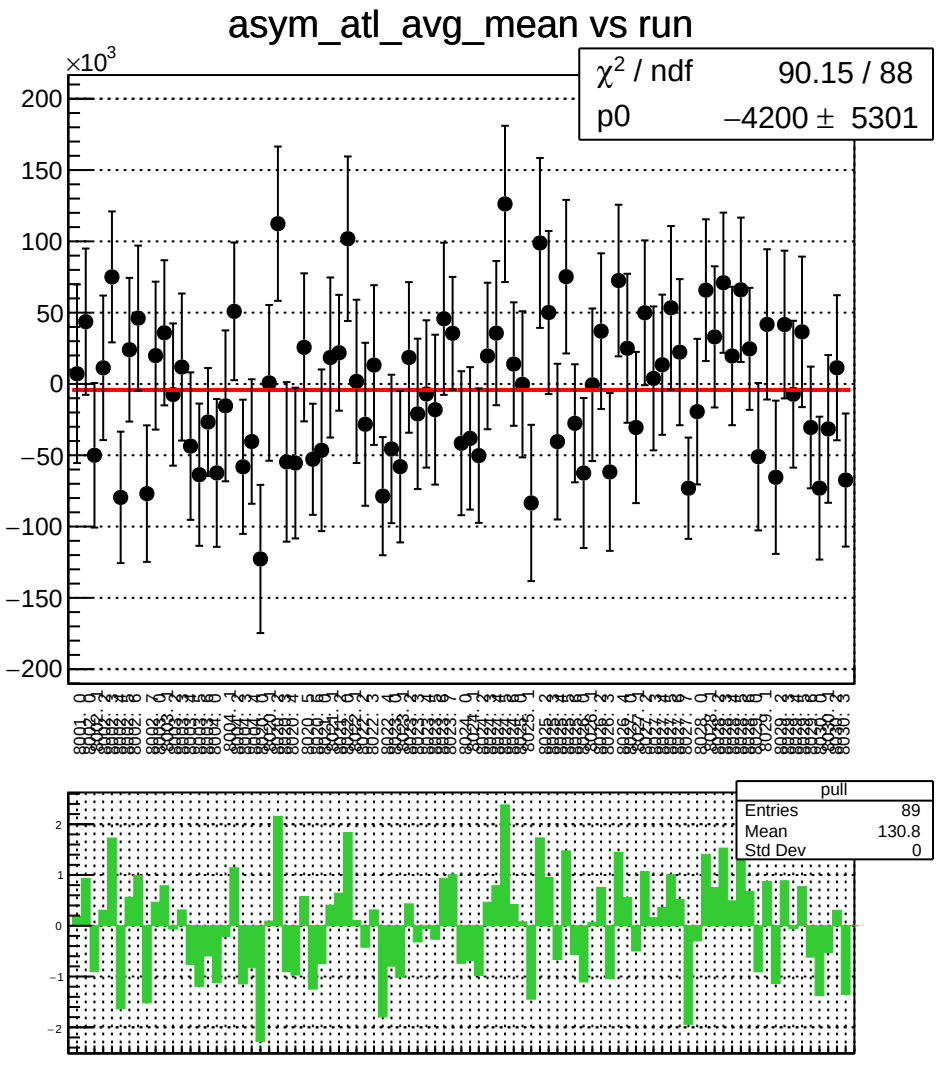

eigen_dit_asym_atl_avg_mean vs run
χ² / ndf 74.95 / 88
p0 −3017 ± 1764
pull
Entries 89
Mean −696.4
Std Dev 0
pull1D
Entries 89
Mean 0.000749
Std Dev 0.9177

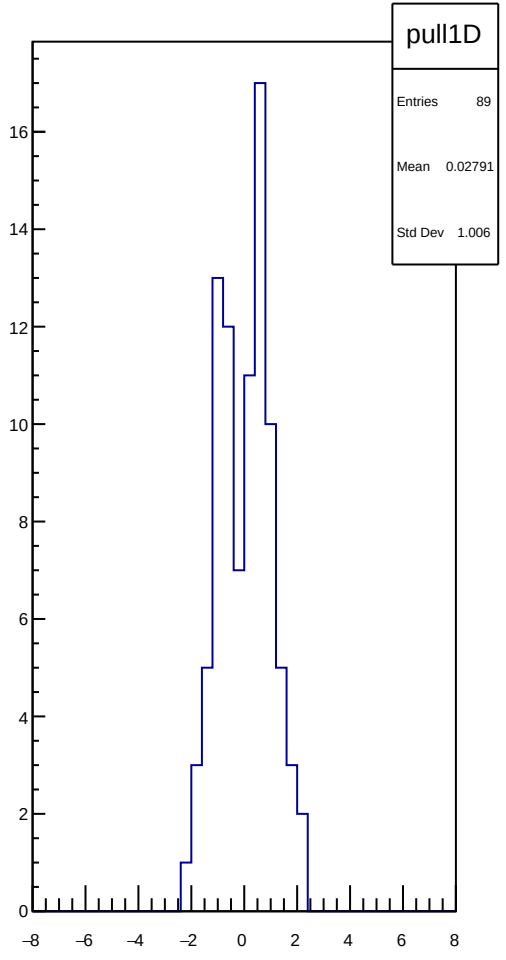

eigen_dit_asym_atl_avg_rms vs run
χ² / ndf 186.3 / 88
p0 1643 ± 1.247
1700
1680
1660
1640
1620
1600
1580

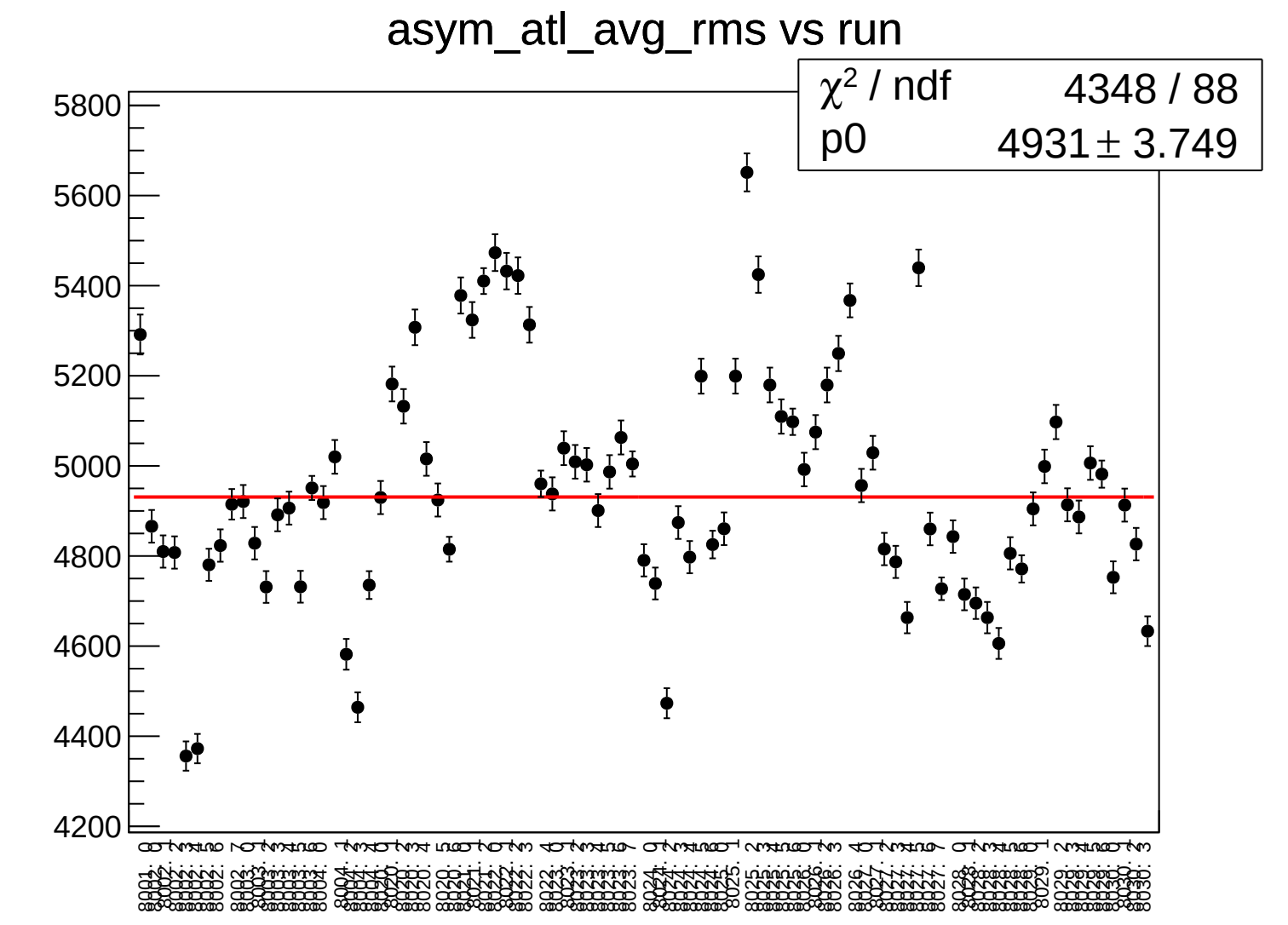

asym_atl_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 96.05 / 88
p0 941.6 ± 5080
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean 148.2
Std Dev 0
2
1
0
−1
−2

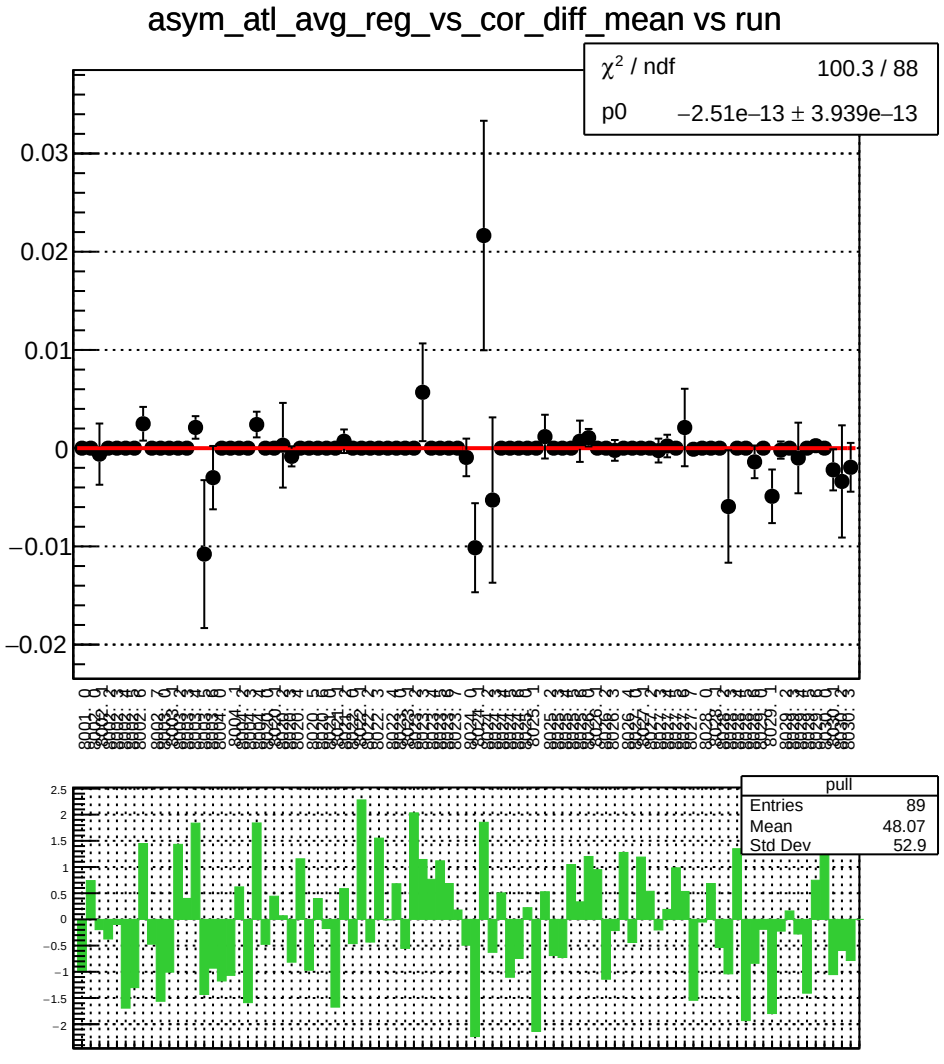

pull1D
Entries 89
Mean −0.02613
Std Dev 1.039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

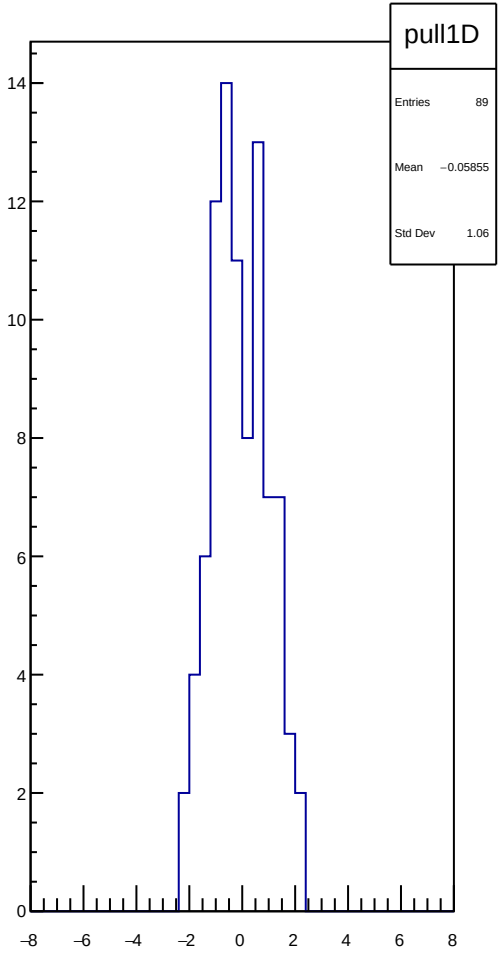

asym_atl_avg_eigen_dit_correction_rms vs run
χ² / ndf 6671 / 88
p0 4722 ± 3.592
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000

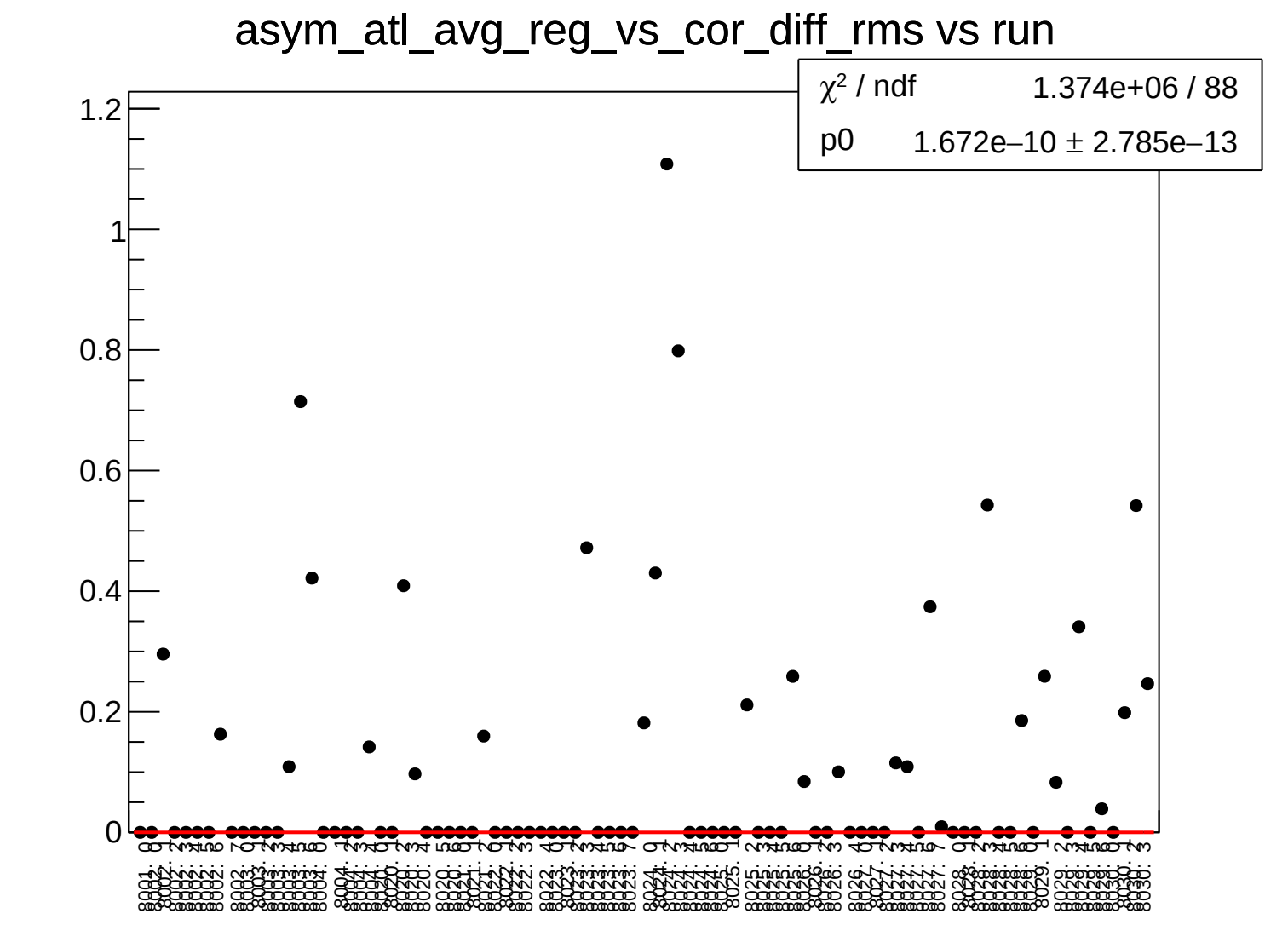

asym_atl_avg_mean vs run
×10^3
χ² / ndf 90.15 / 88
p0 −4200 ± 5301
pull
Entries 89
Mean 130.8
Std Dev 0

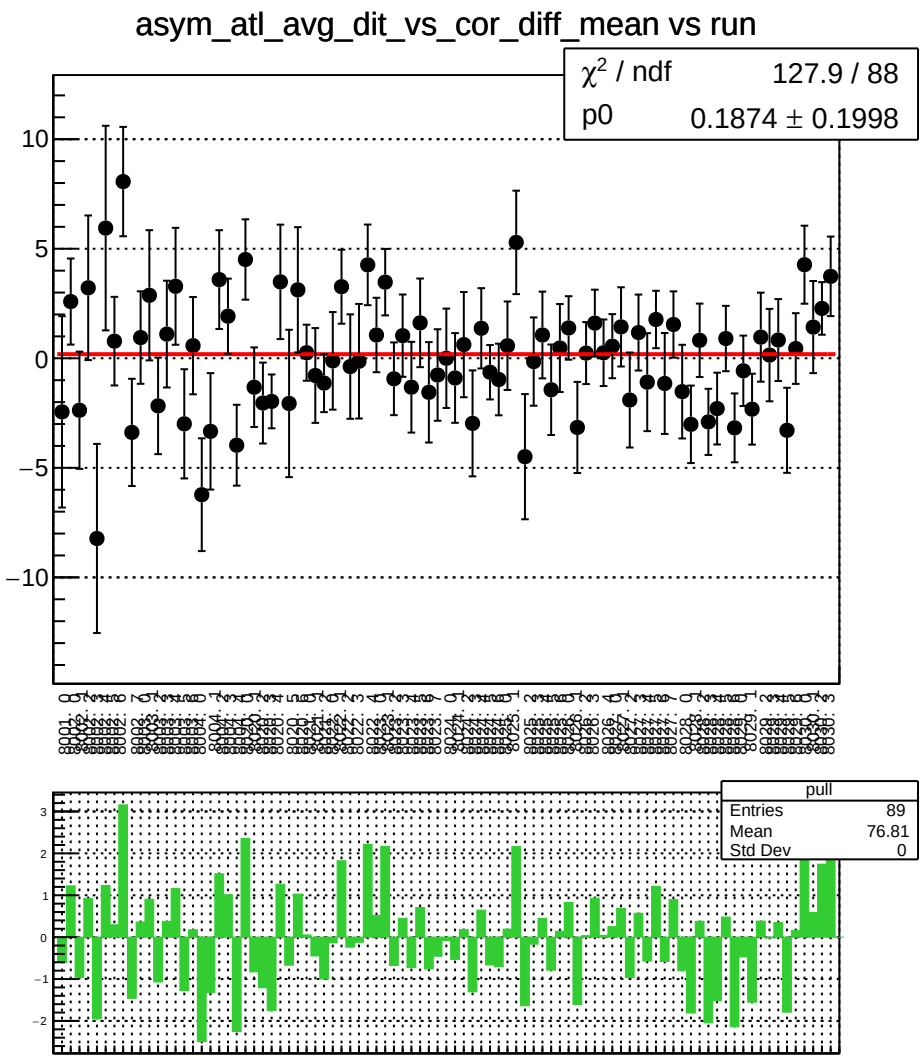

pull1D
Entries 89
Mean 0.02791
Std Dev 1.006

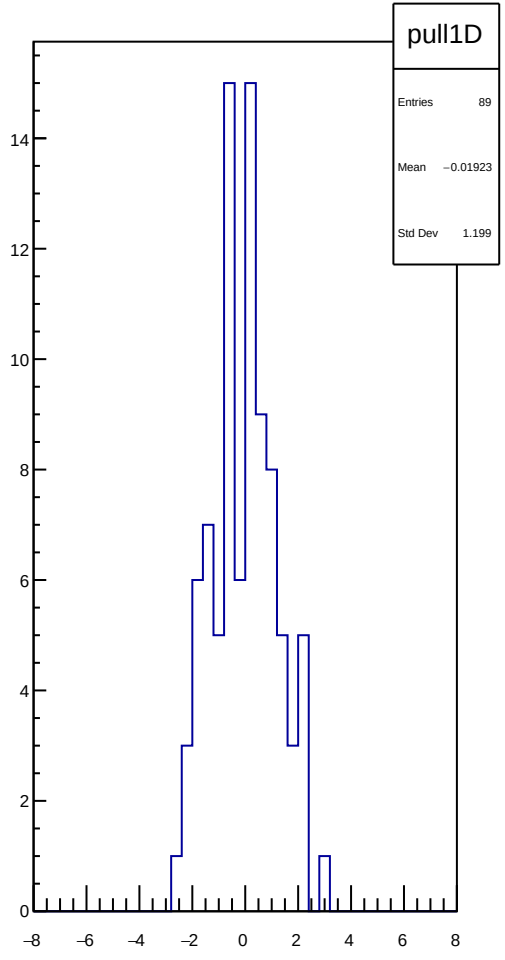

asym_atl_avg_rms vs run
χ² / ndf 4348 / 88
p0 4931 ± 3.749
5800
5600
5400
5200
5000
4800
4600
4400
4200

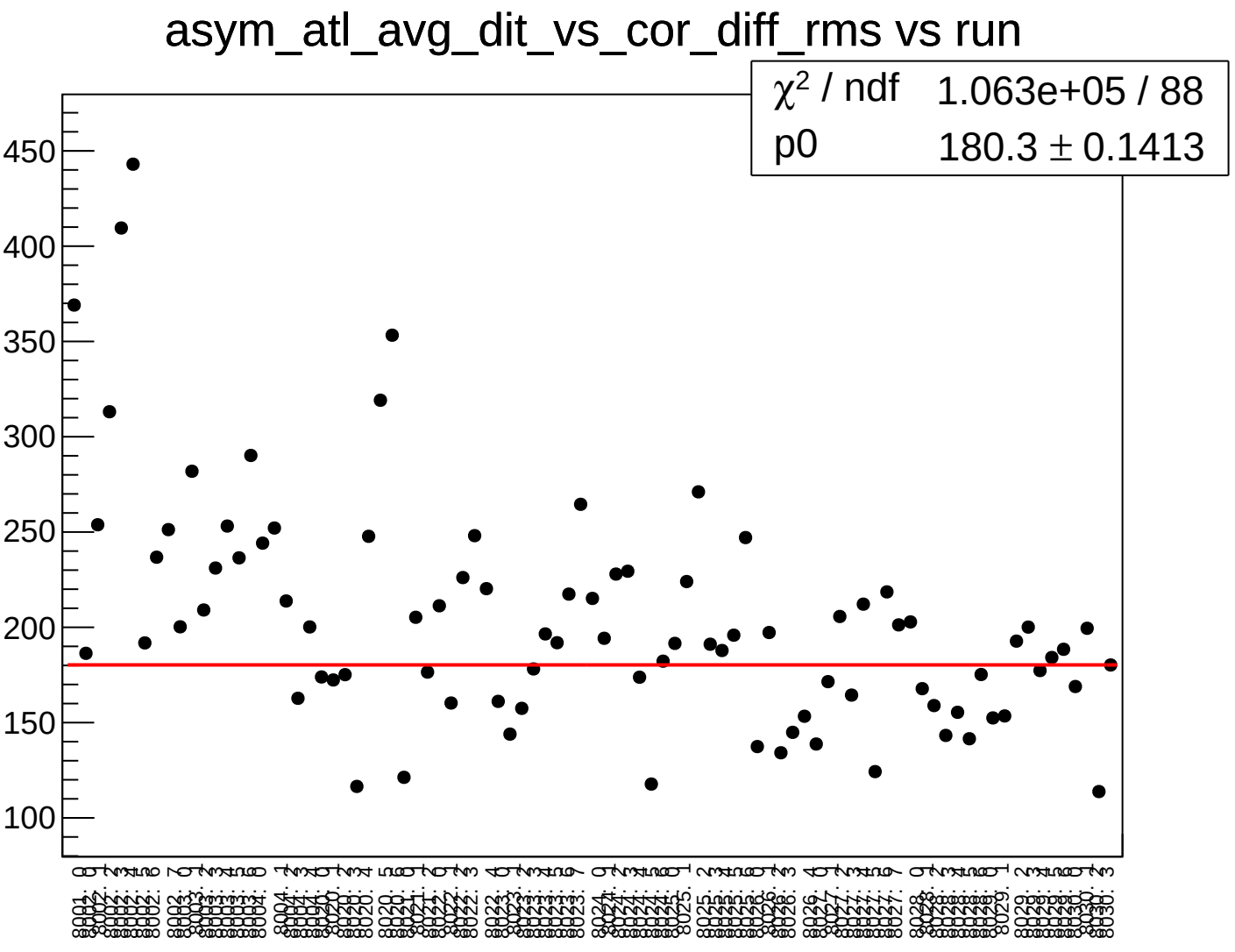

asym_atl_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 100.3 / 88
p0 −2.51e−13 ± 3.939e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 89
Mean 48.07
Std Dev 52.9
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

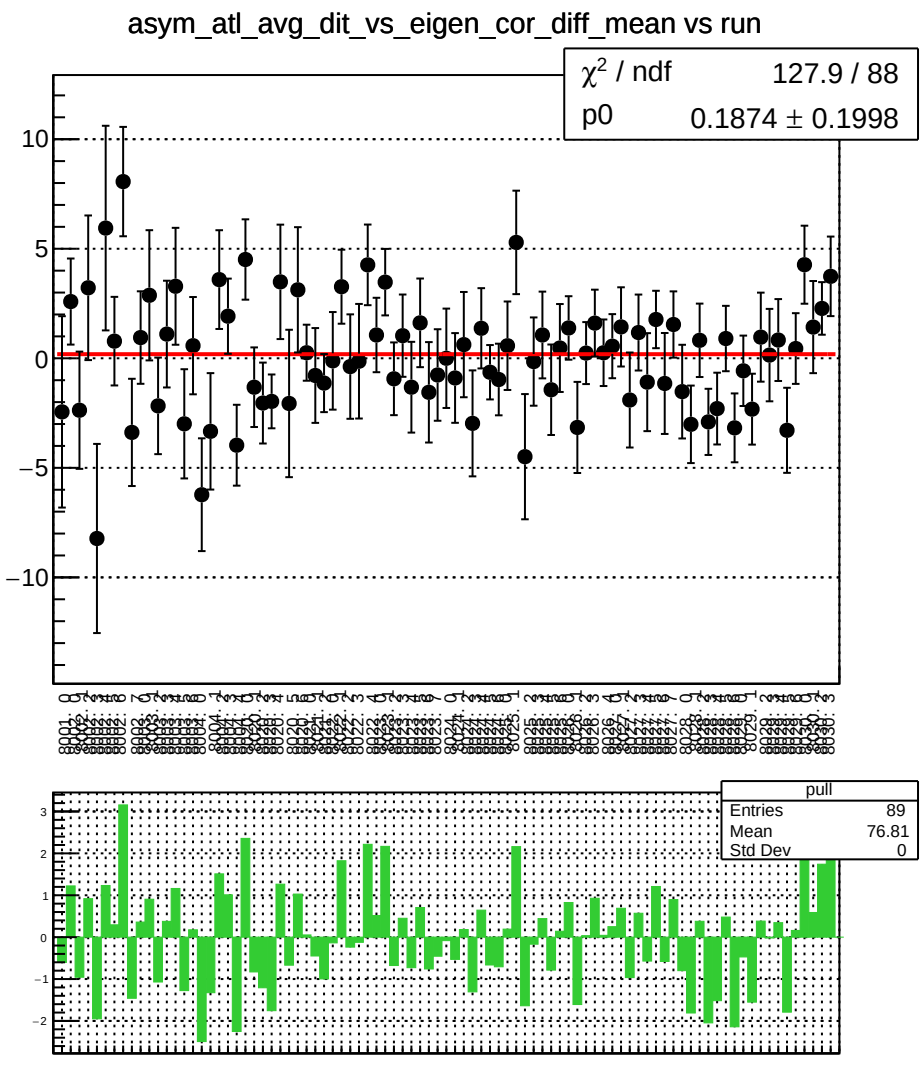

pull1D
Entries 89
Mean −0.05855
Std Dev 1.06
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

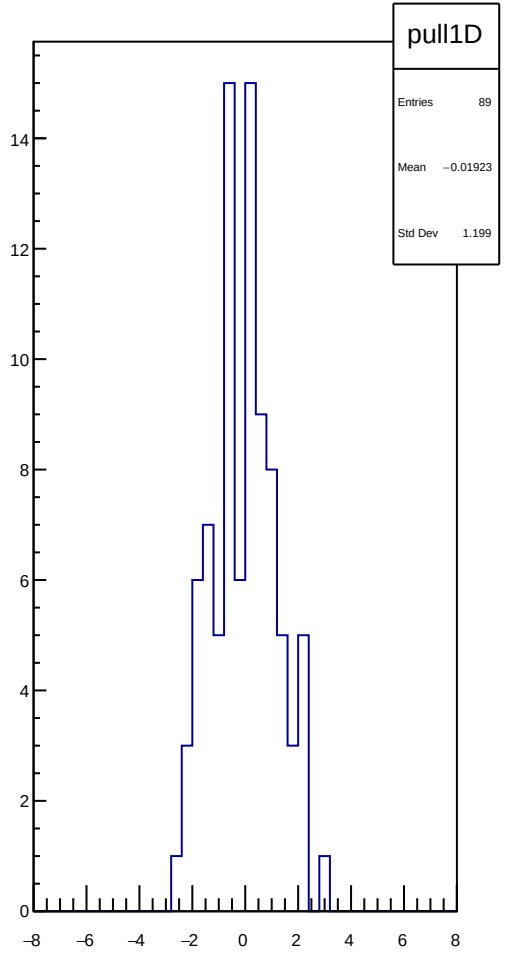

asym_atl_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.374e+06 / 88
p0 1.672e−10 ± 2.785e−13
1.2
1
0.8
0.6
0.4
0.2
0

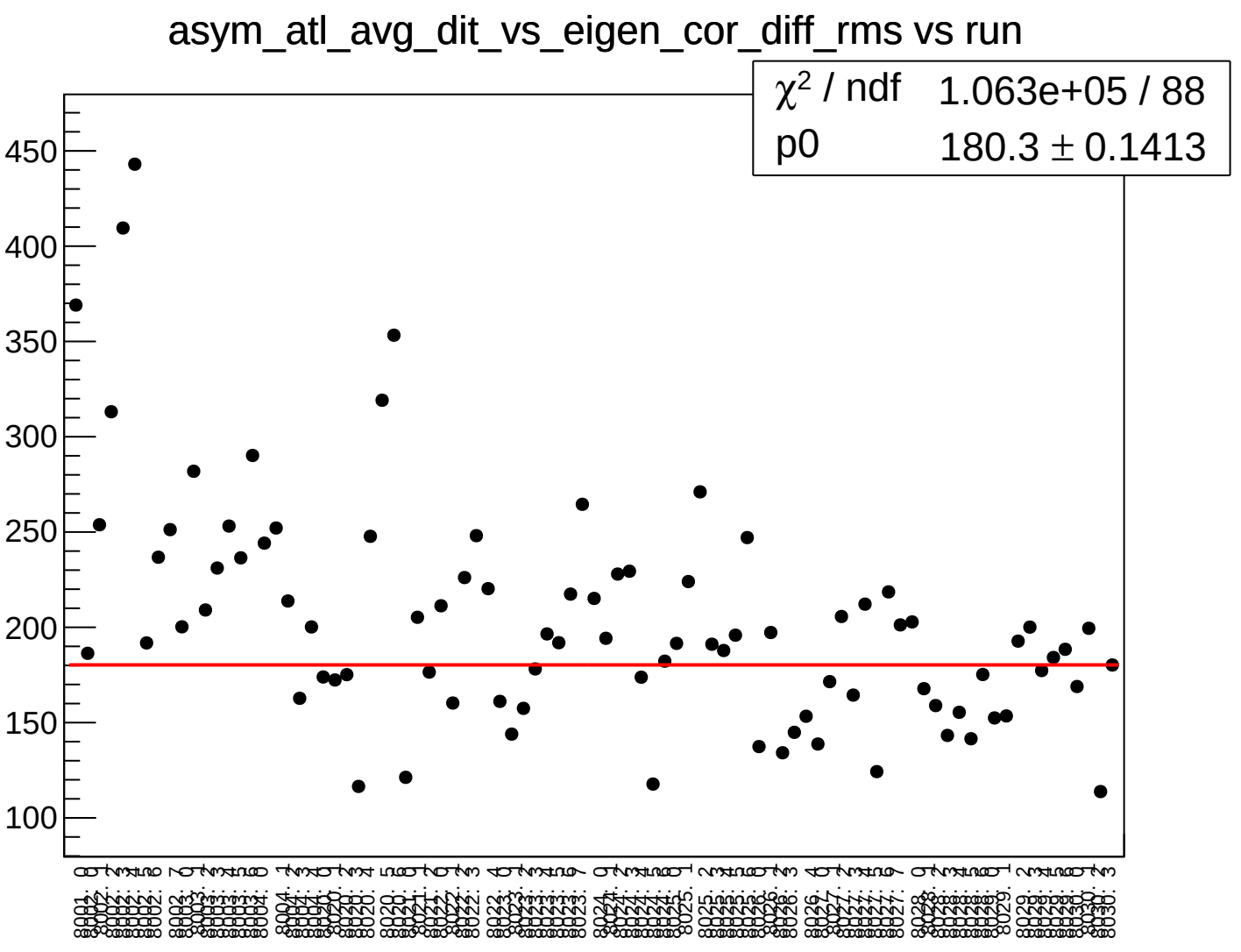

asym_atl_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 127.9 / 88
p0 0.1874 ± 0.1998
pull
Entries 89
Mean 76.81
Std Dev 0

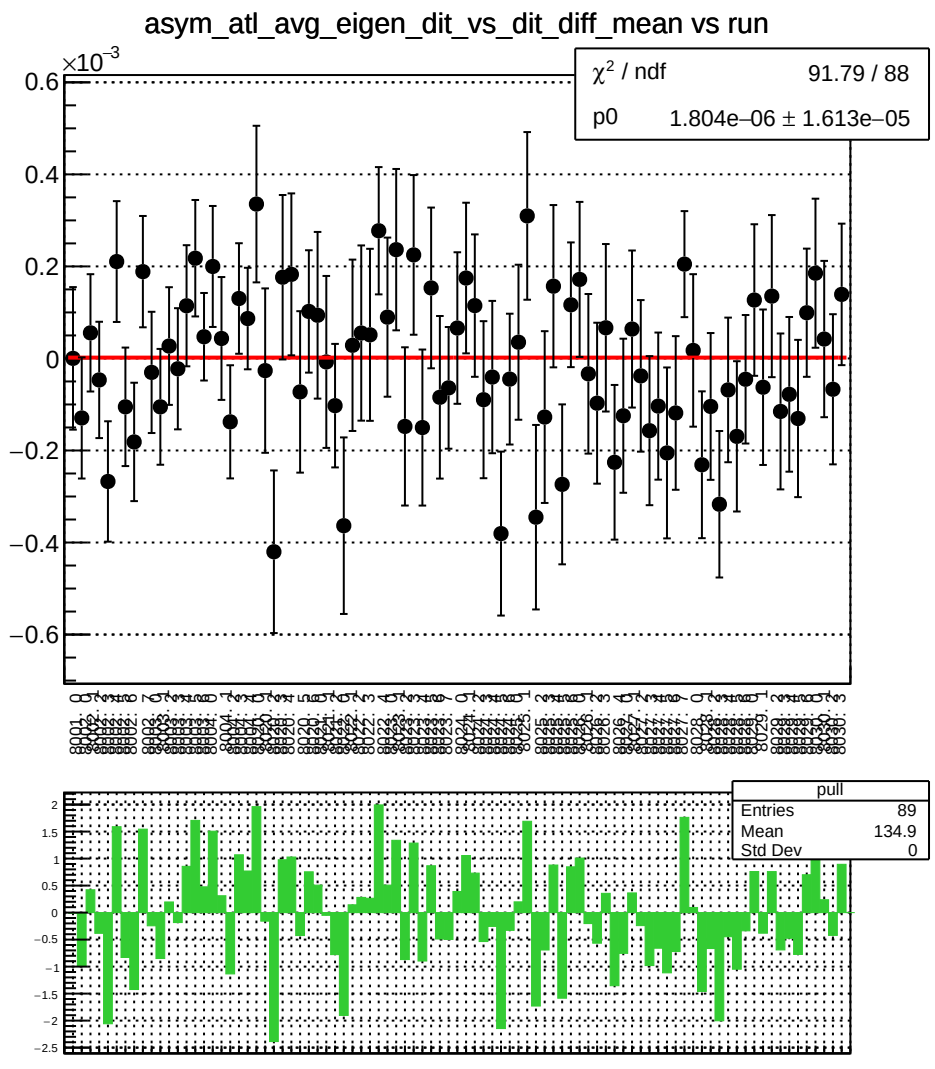

pull1D
Entries 89
Mean −0.01923
Std Dev 1.199

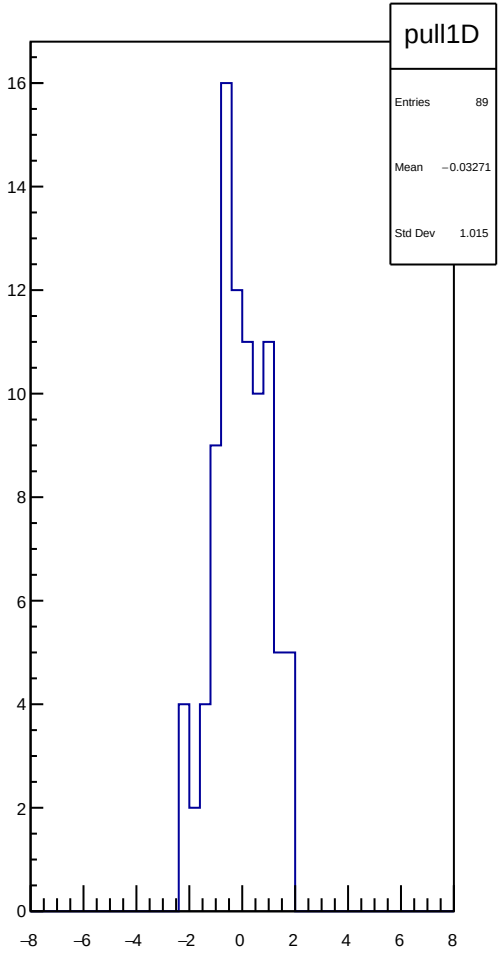

asym_atl_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.063e+05 / 88
p0 180.3 ± 0.1413
450
400
350
300
250
200
150
100

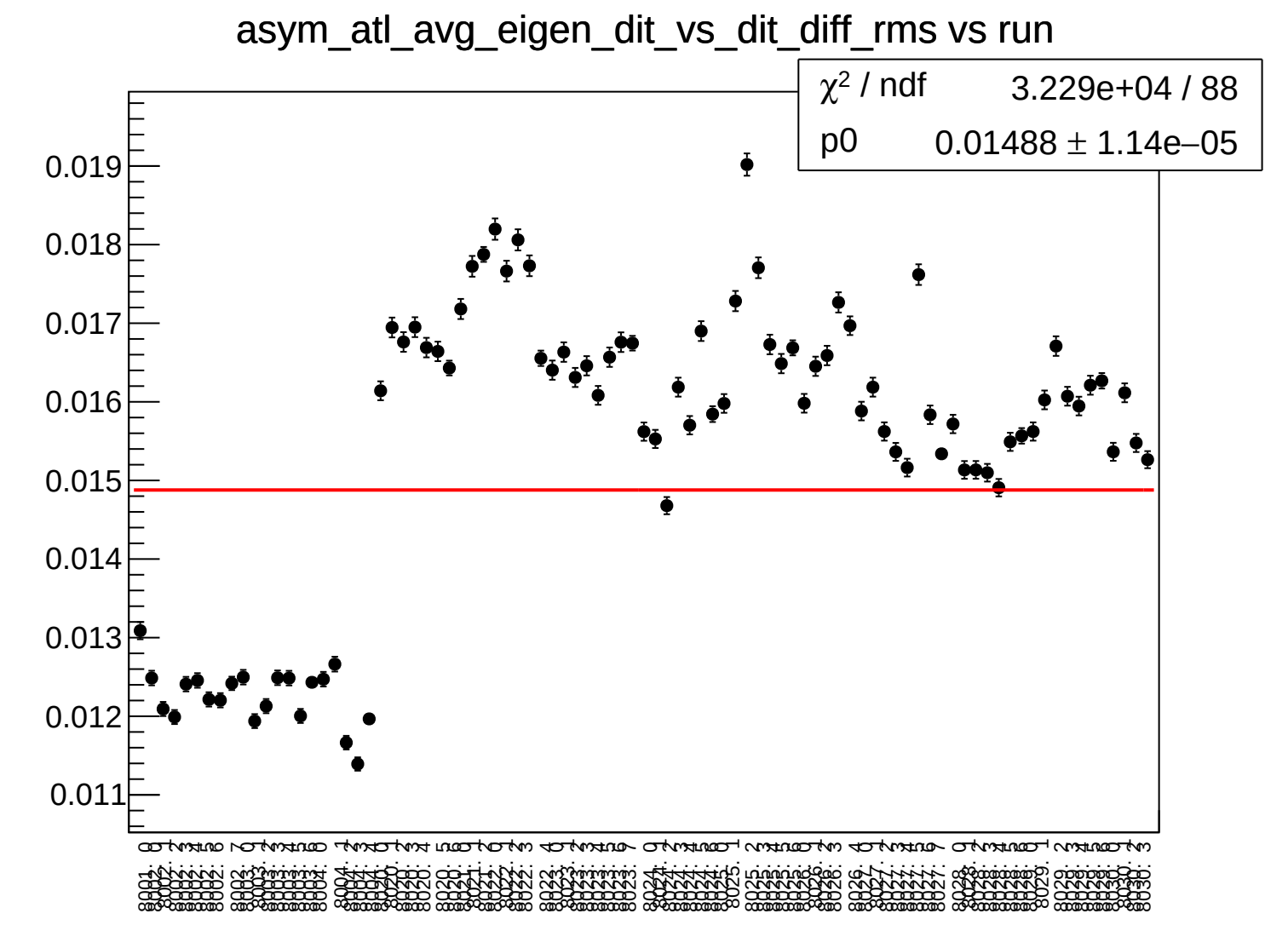

asym_atl_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 127.9 / 88
p0 0.1874 ± 0.1998
10
5
0
−5
−10
pull
Entries 89
Mean 76.81
Std Dev 0
3
2
1
0
−1
−2

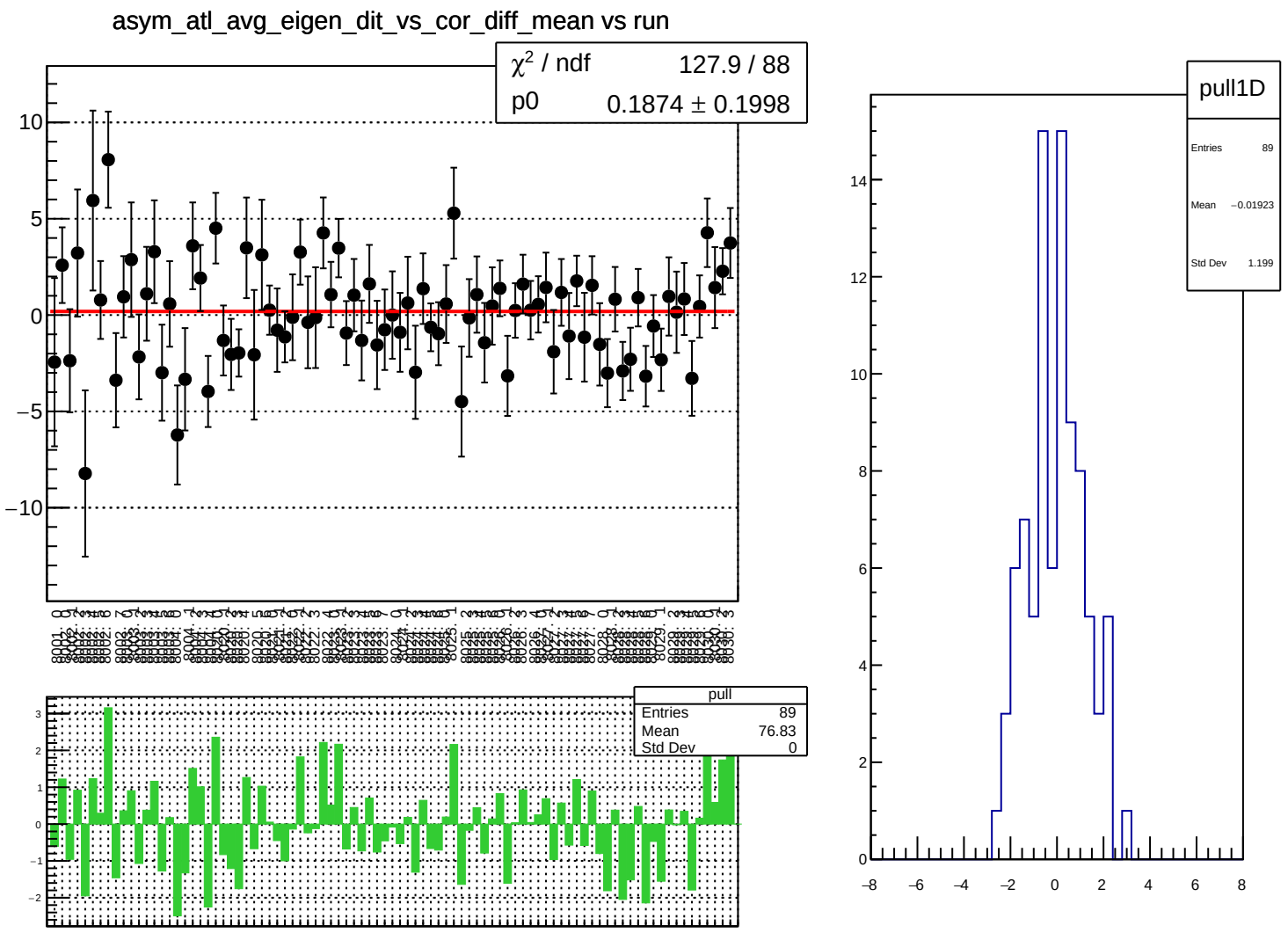

pull1D
Entries 89
Mean −0.01923
Std Dev 1.199
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

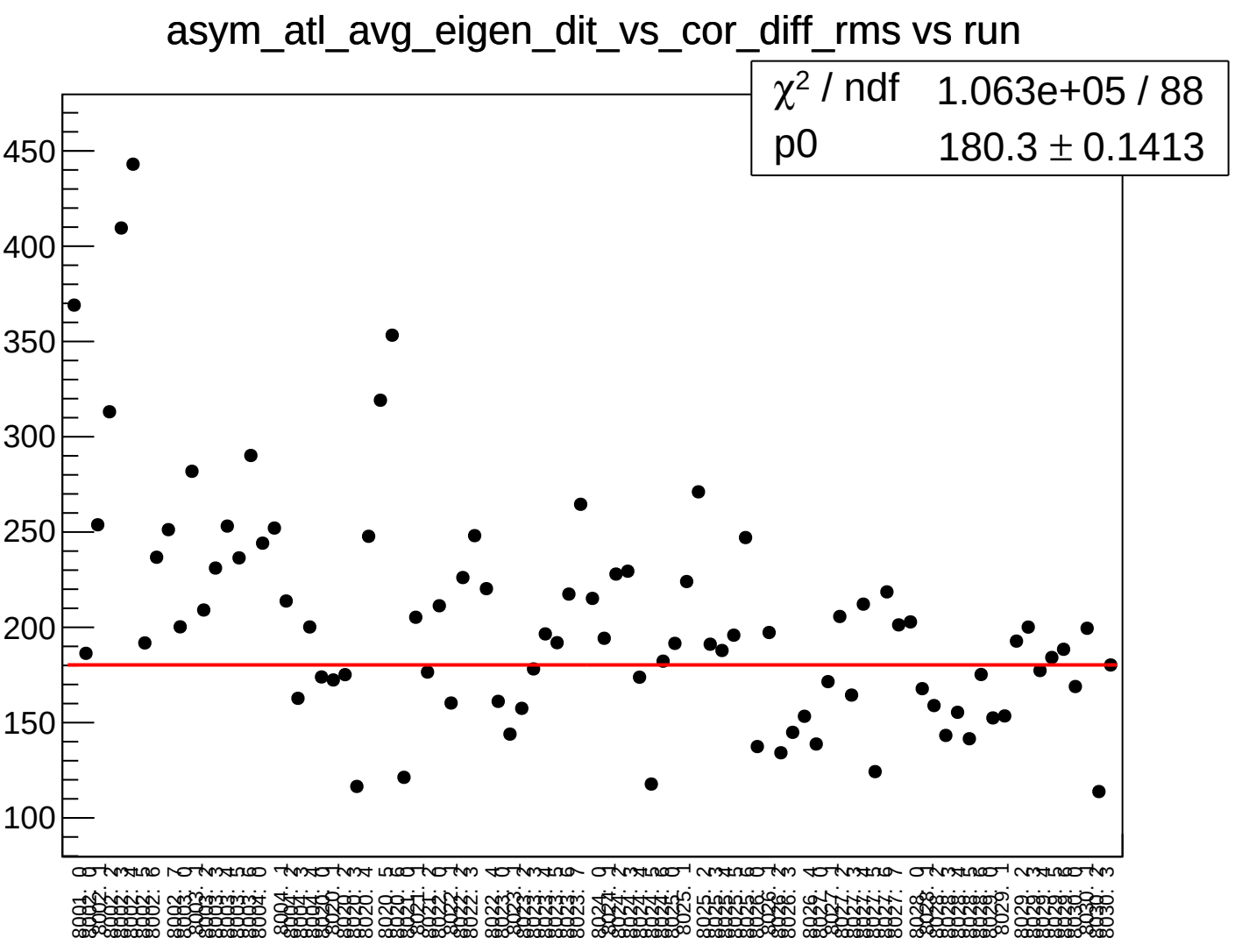

asym_atl_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.063e+05 / 88
p0 180.3 ± 0.1413
450
400
350
300
250
200
150
100

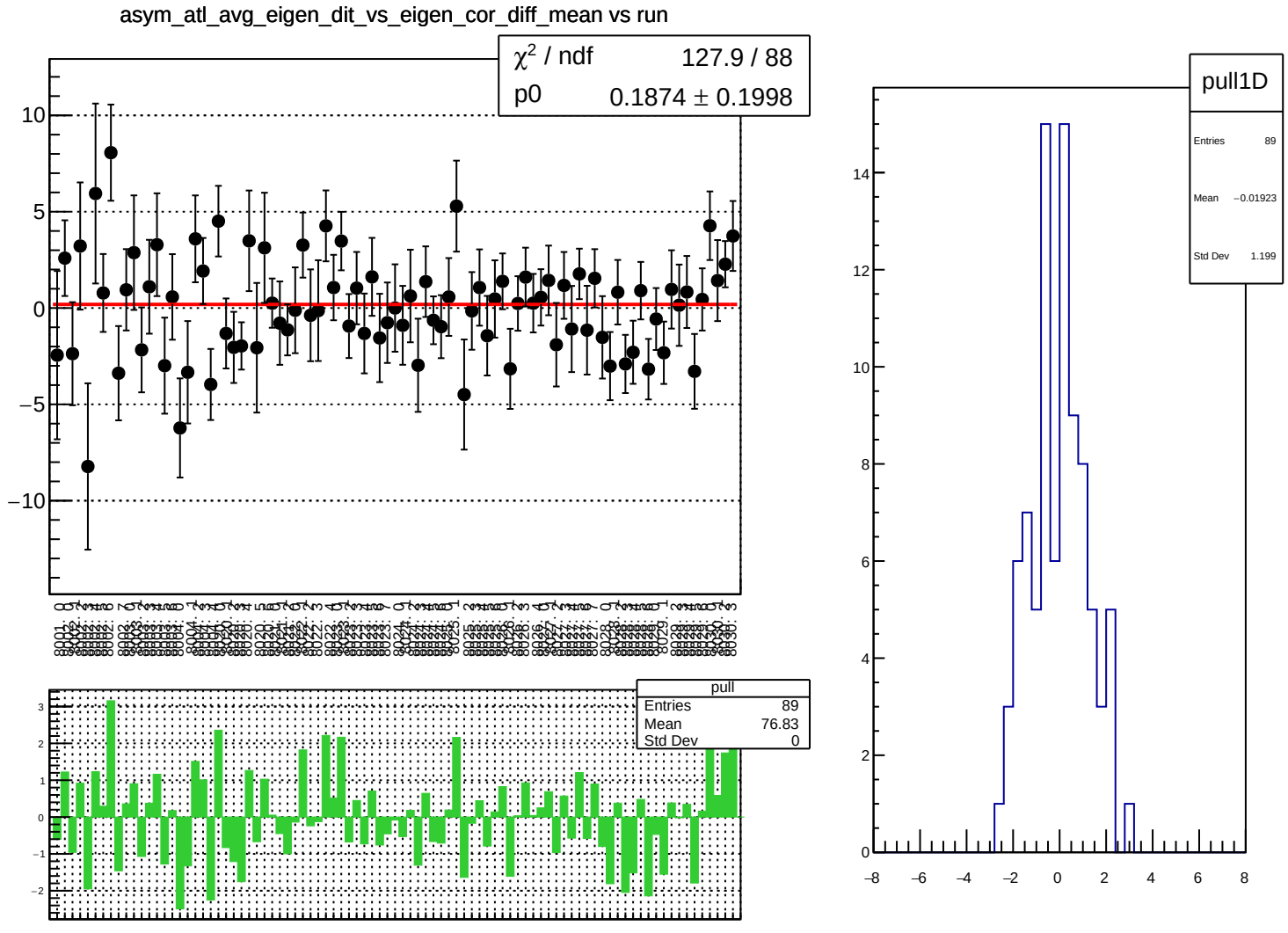

asym_atl_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.79 / 88
p0 1.804e−06 ± 1.613e−05
pull
Entries 89
Mean 134.9
Std Dev 0

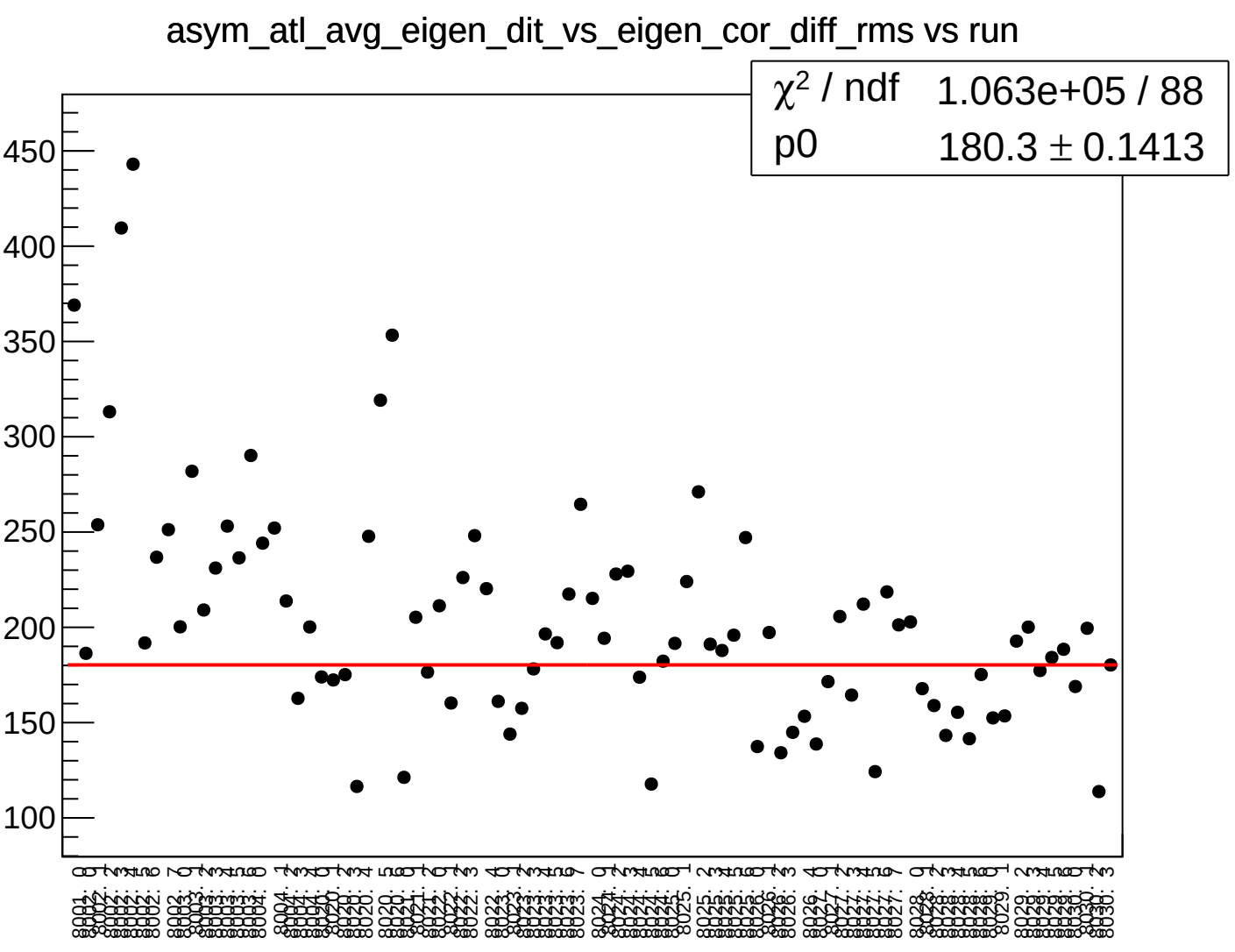

pull1D
Entries 89
Mean −0.03271
Std Dev 1.015

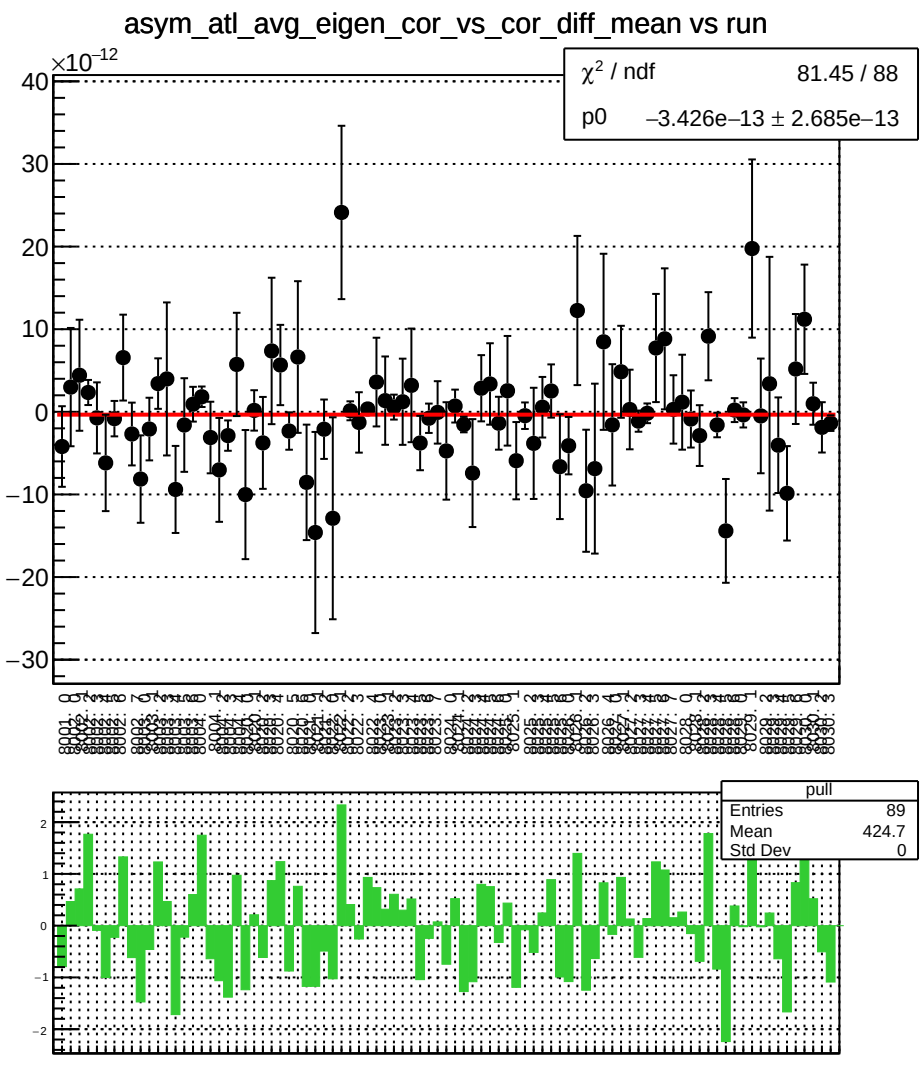

asym_atl_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.229e+04 / 88
p0 0.01488 ± 1.14e−05
0.019
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011

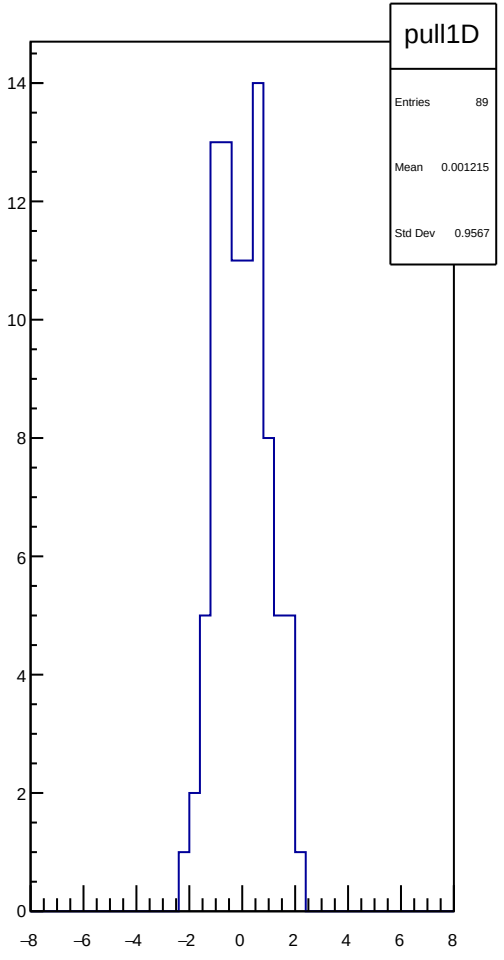

asym_atl_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 127.9 / 88
p0 0.1874 ± 0.1998
pull
Entries 89
Mean 76.83
Std Dev 0
pull1D
Entries 89
Mean −0.01923
Std Dev 1.199

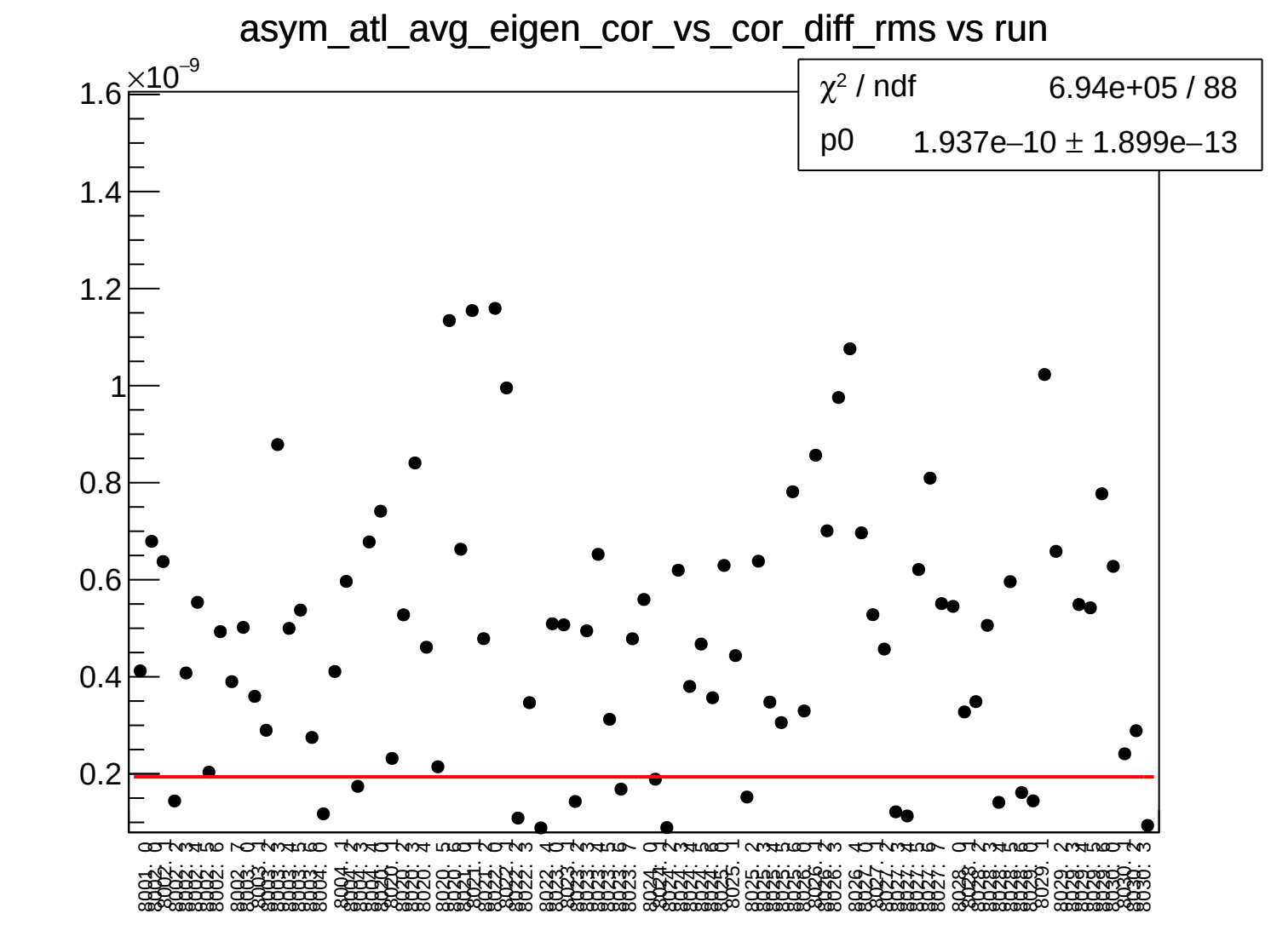

asym_atl_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.063e+05 / 88
p0 180.3 ± 0.1413
450
400
350
300
250
200
150
100

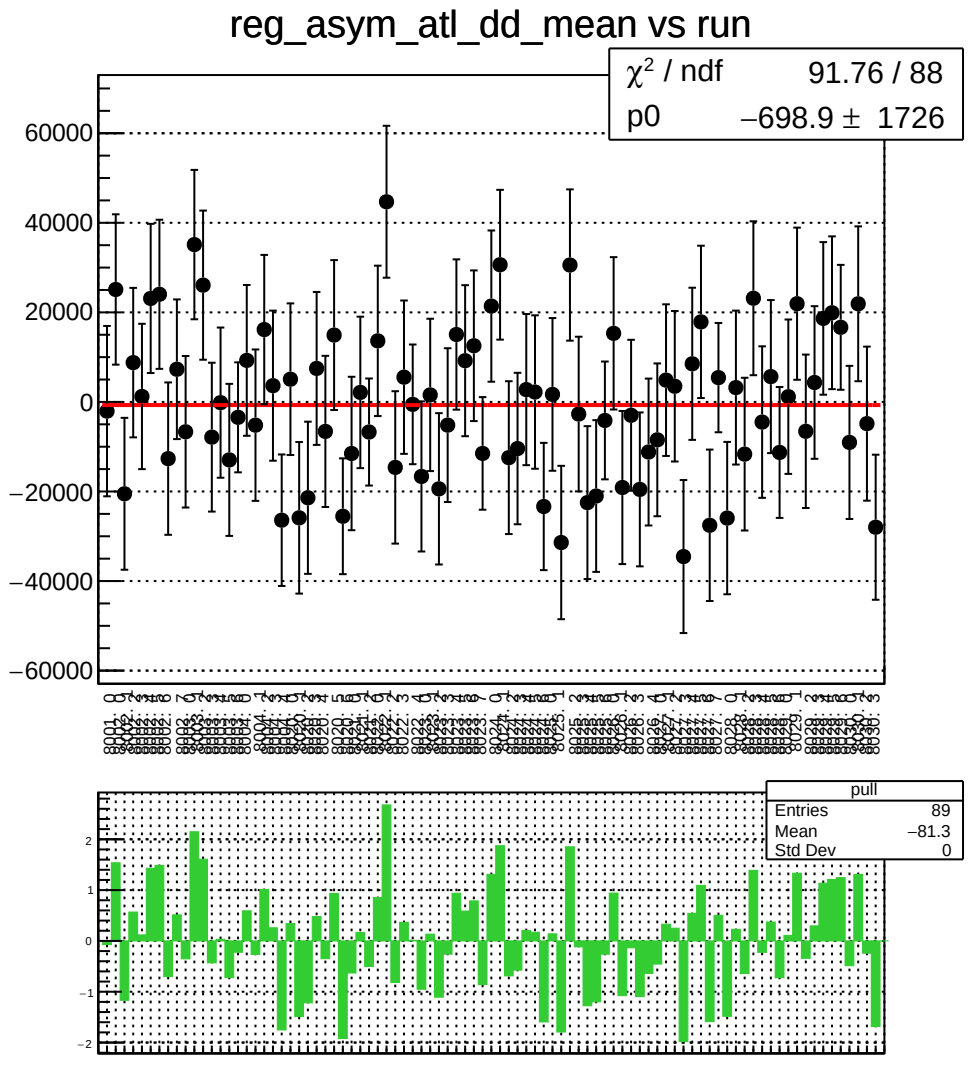

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 127.9 / 88
p0 0.1874 ± 0.1998
pull
Entries 89
Mean 76.83
Std Dev 0
pull1D
Entries 89
Mean −0.01923
Std Dev 1.199

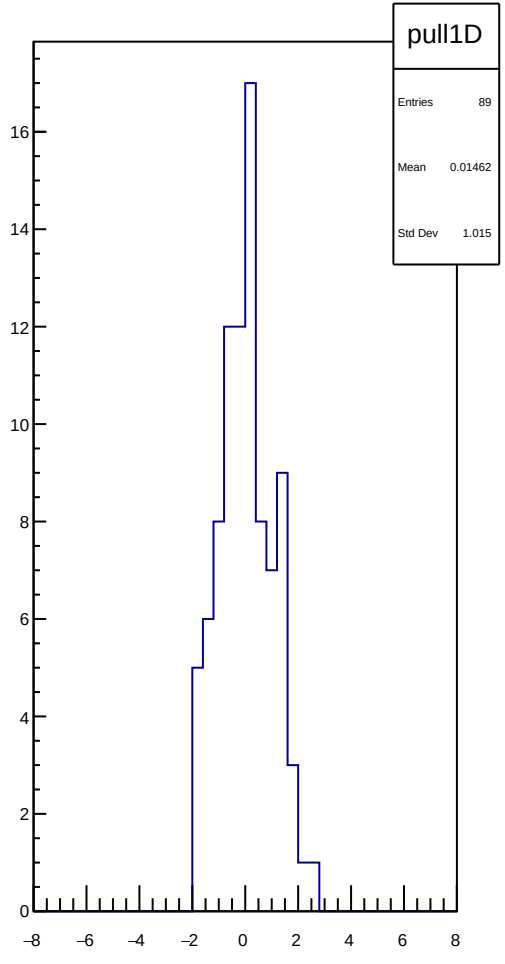

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.063e+05 / 88
p0 180.3 ± 0.1413
450
400
350
300
250
200
150
100

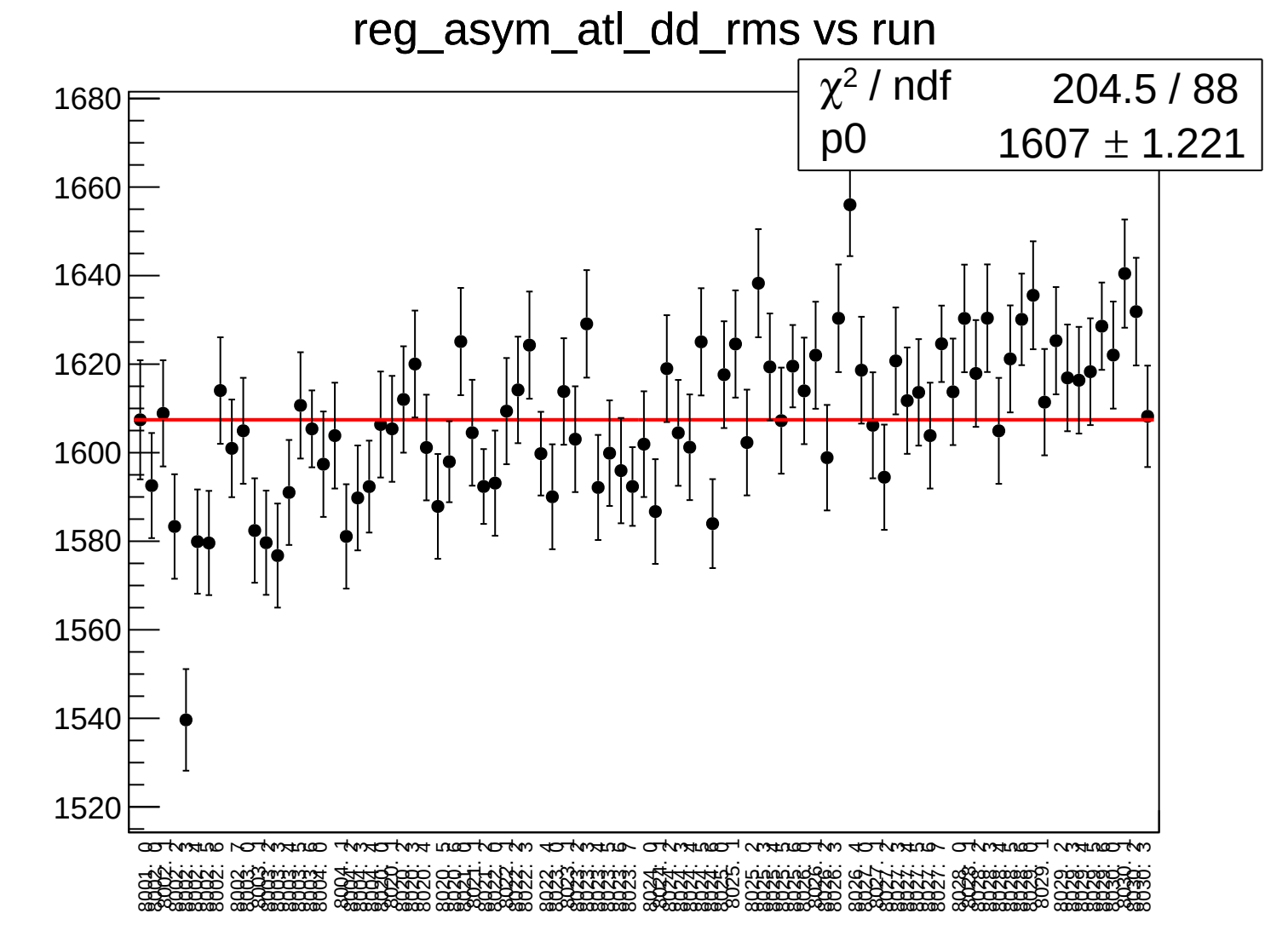

asym_atl_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.45 / 88
p0 −3.426e−13 ± 2.685e−13
pull
Entries 89
Mean 424.7
Std Dev 0

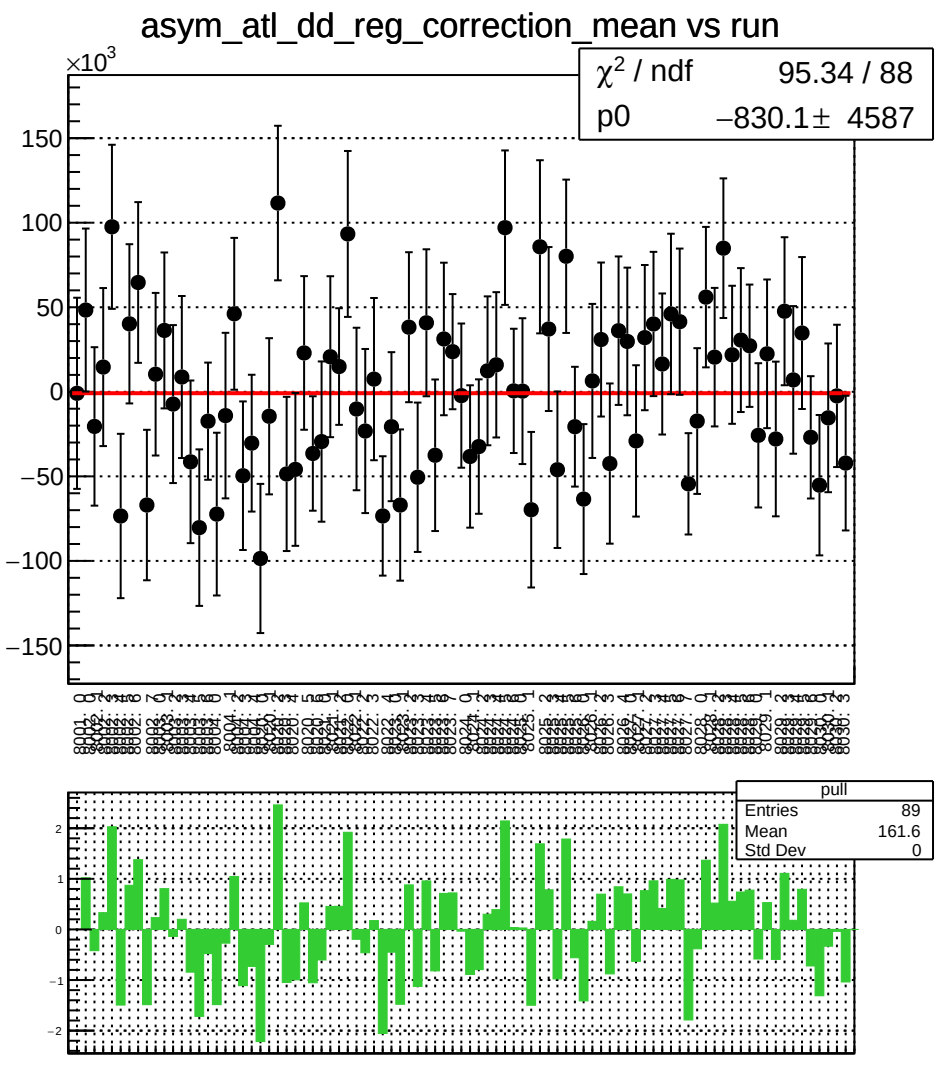

pull1D
Entries 89
Mean 0.001215
Std Dev 0.9567

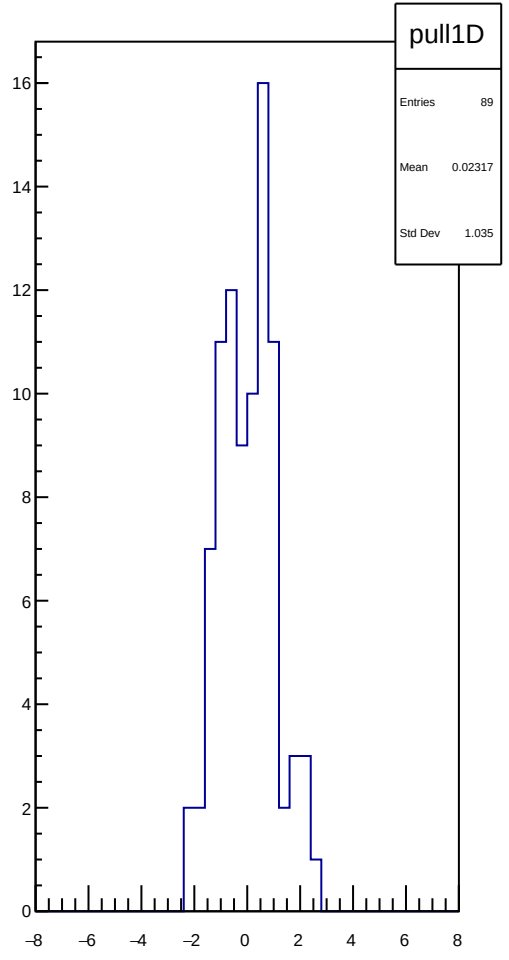

asym_atl_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
χ² / ndf 6.94e+05 / 88
p0 1.937e−10 ± 1.899e−13

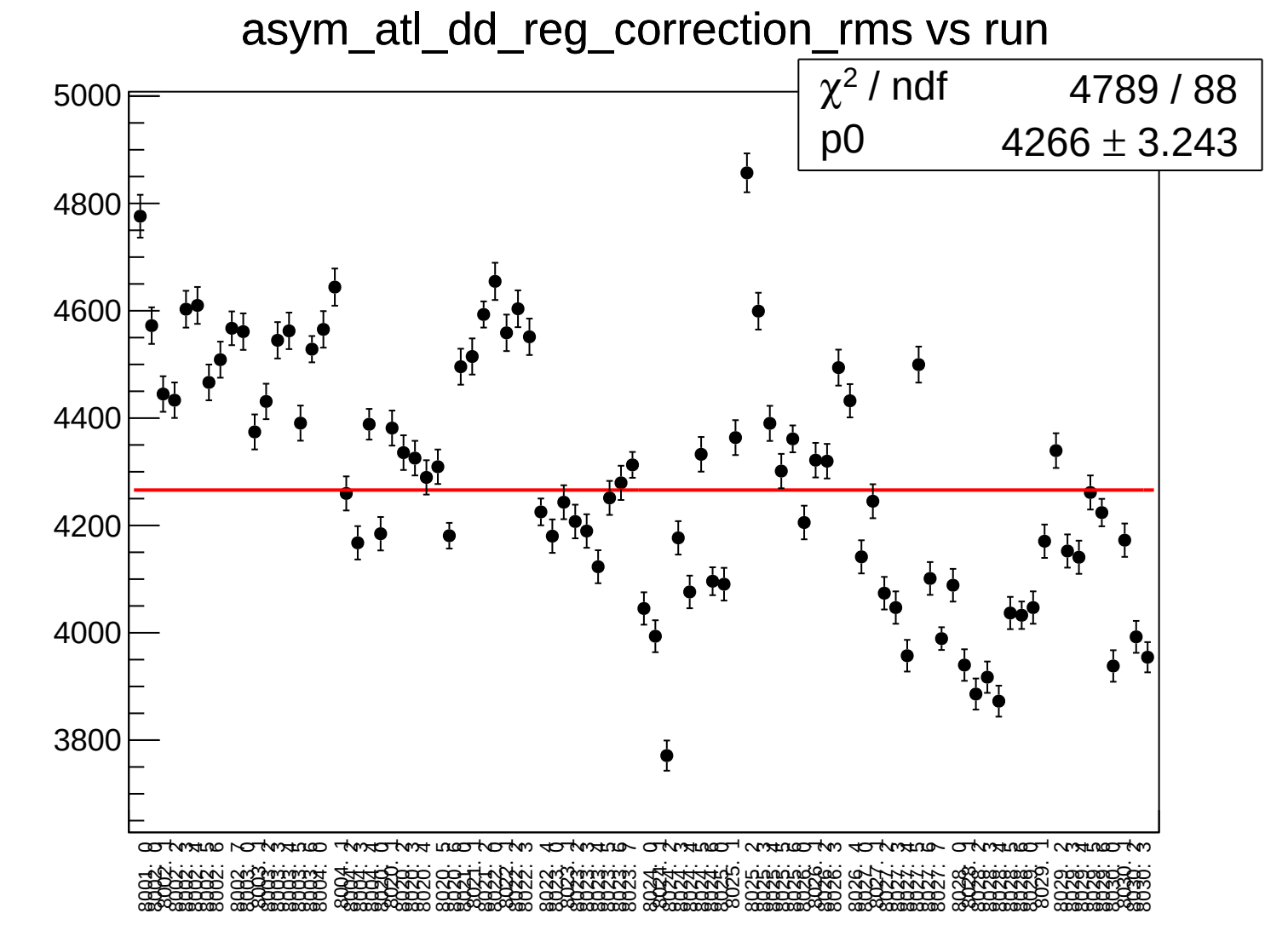

reg_asym_atl_dd_mean vs run
χ² / ndf 91.76 / 88
p0 −698.9 ± 1726
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −81.3
Std Dev 0
2
1
0
−1
−2

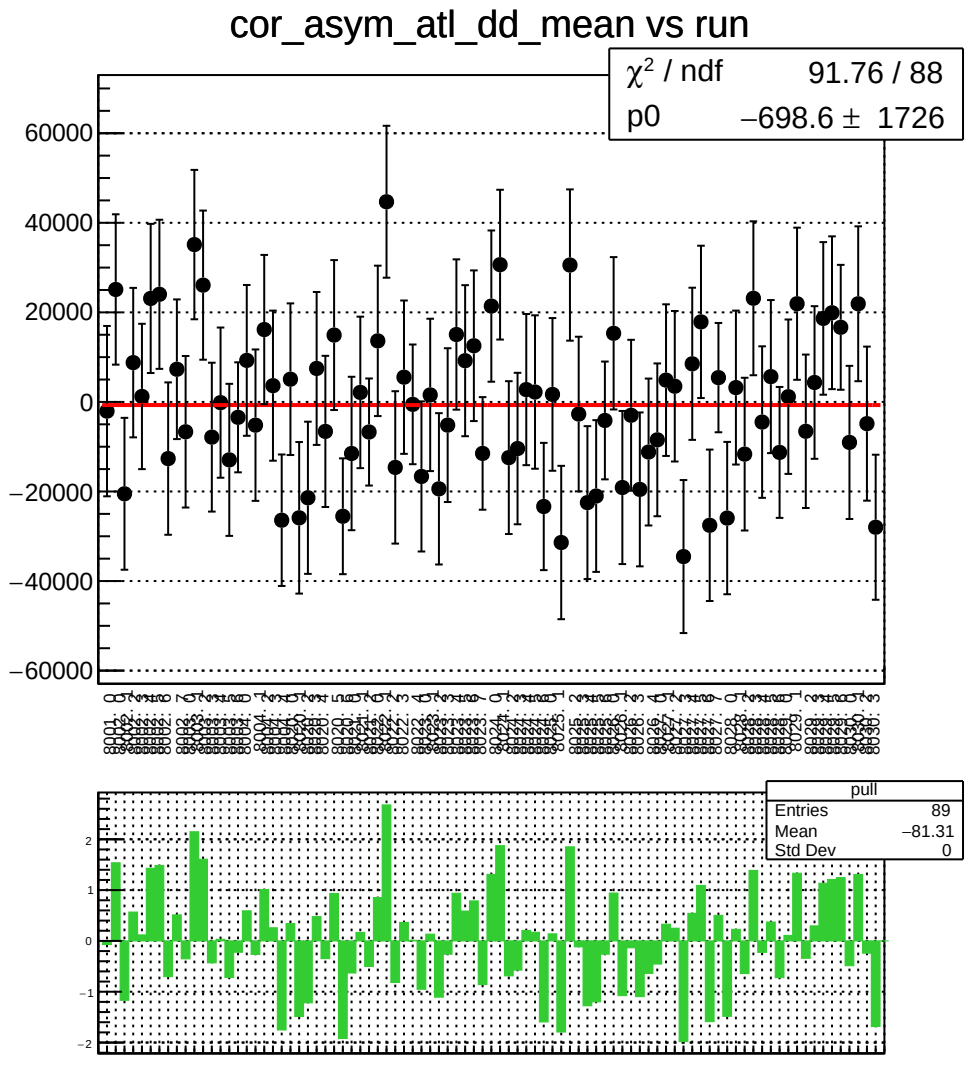

pull1D
Entries 89
Mean 0.01462
Std Dev 1.015
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

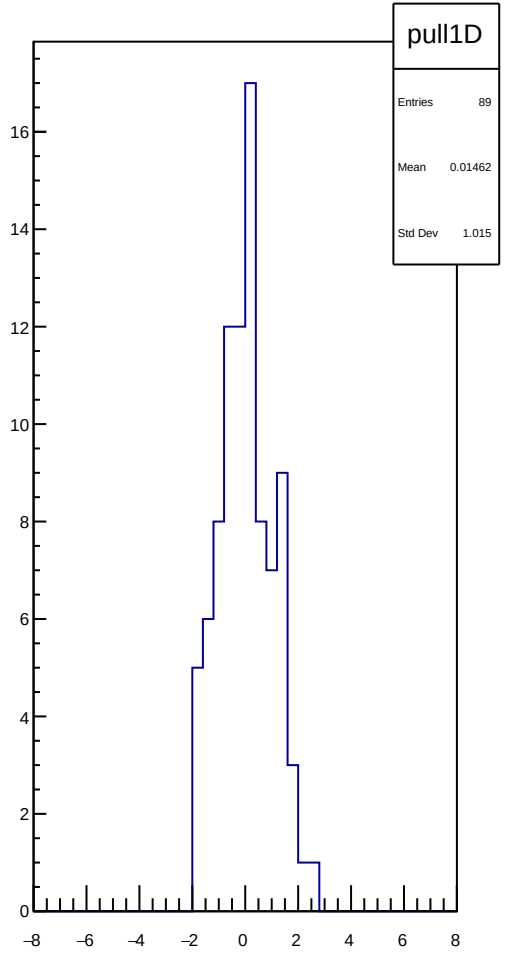

reg_asym_atl_dd_rms vs run
χ² / ndf 204.5 / 88
p0 1607 ± 1.221
1680
1660
1640
1620
1600
1580
1560
1540
1520

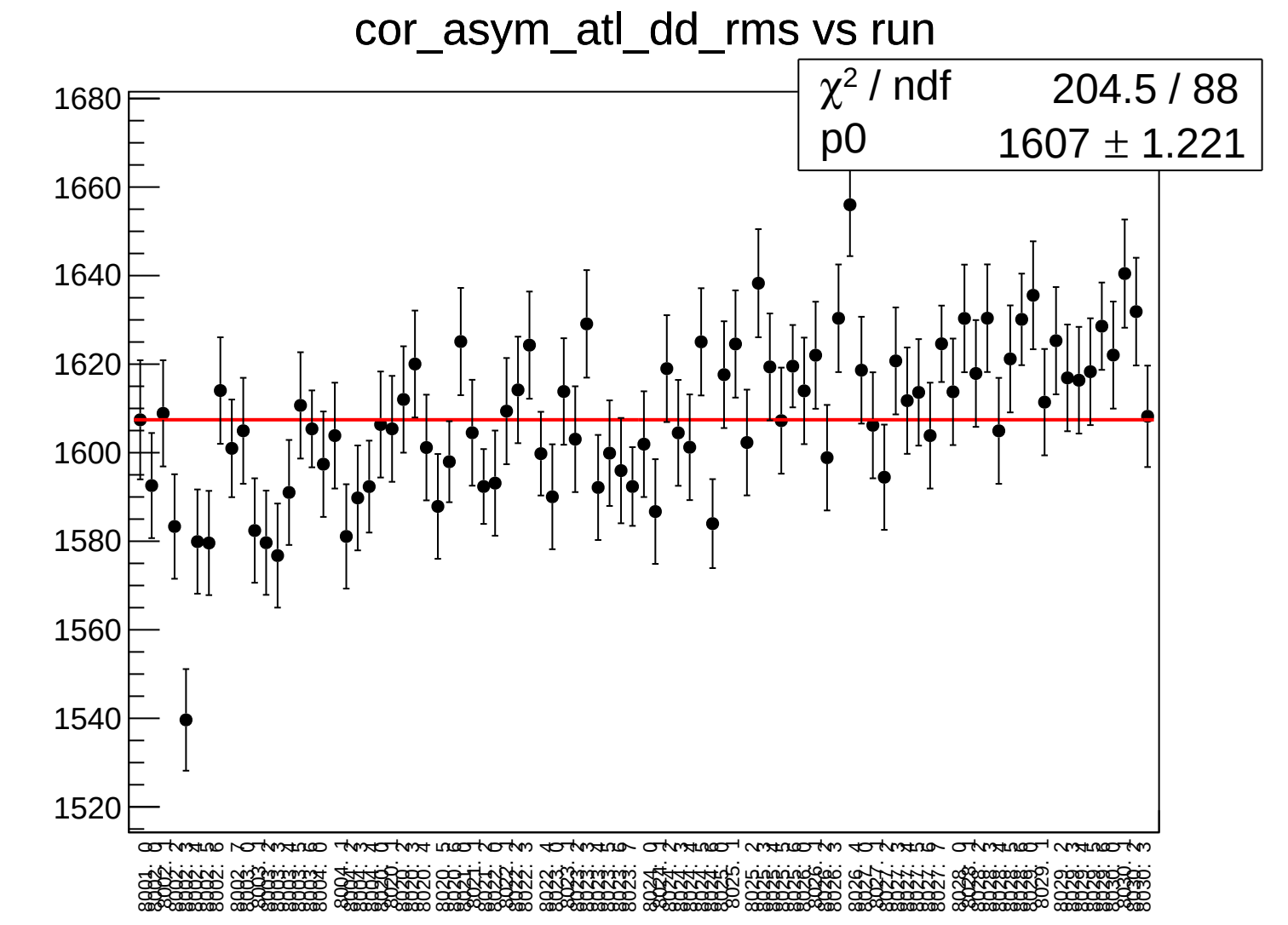

asym_atl_dd_reg_correction_mean vs run
×10^3
χ² / ndf 95.34 / 88
p0 −830.1± 4587
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean 161.6
Std Dev 0
2
1
0
−1
−2

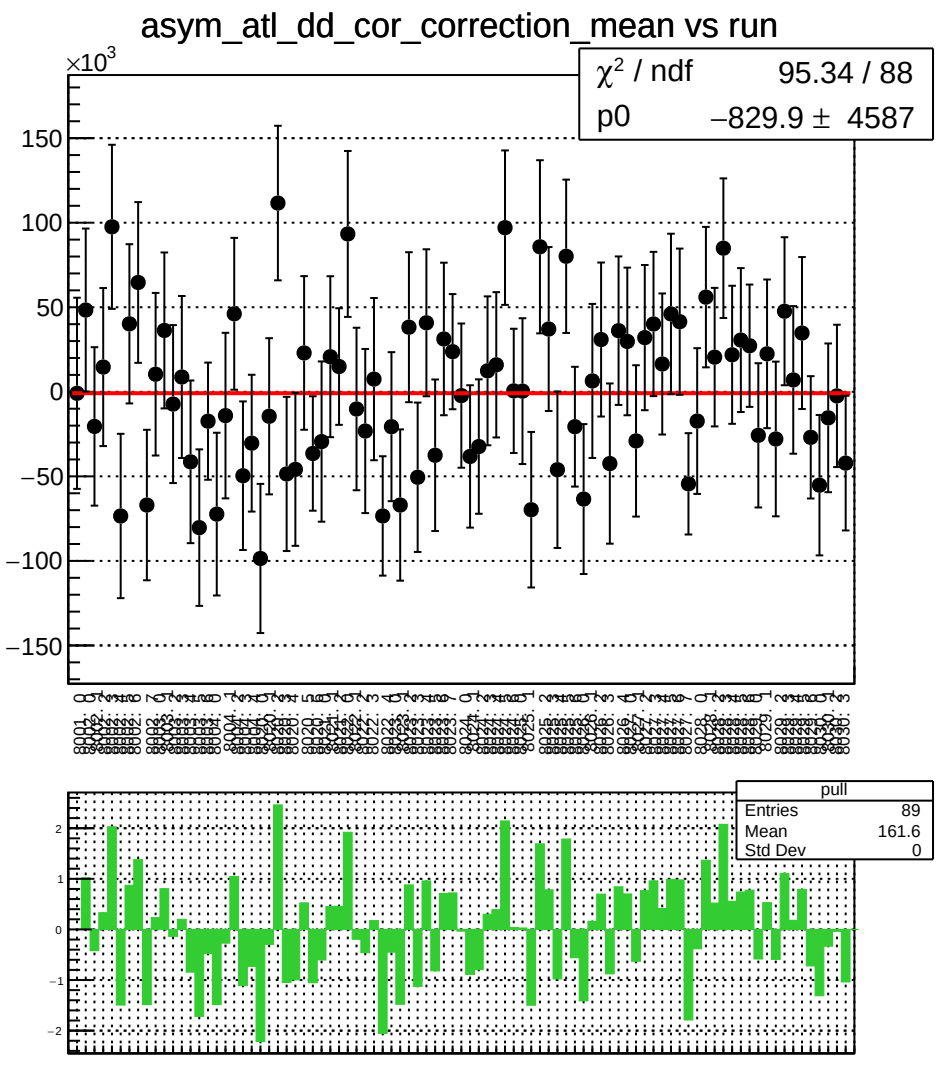

pull1D
Entries 89
Mean 0.02317
Std Dev 1.035
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

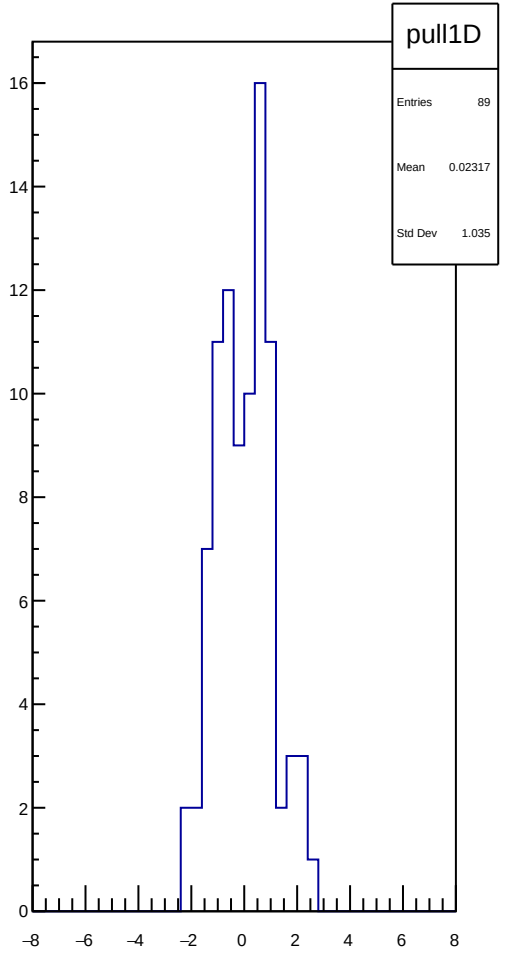

asym_atl_dd_reg_correction_rms vs run
χ² / ndf 4789 / 88
p0 4266 ± 3.243
5000
4800
4600
4400
4200
4000
3800

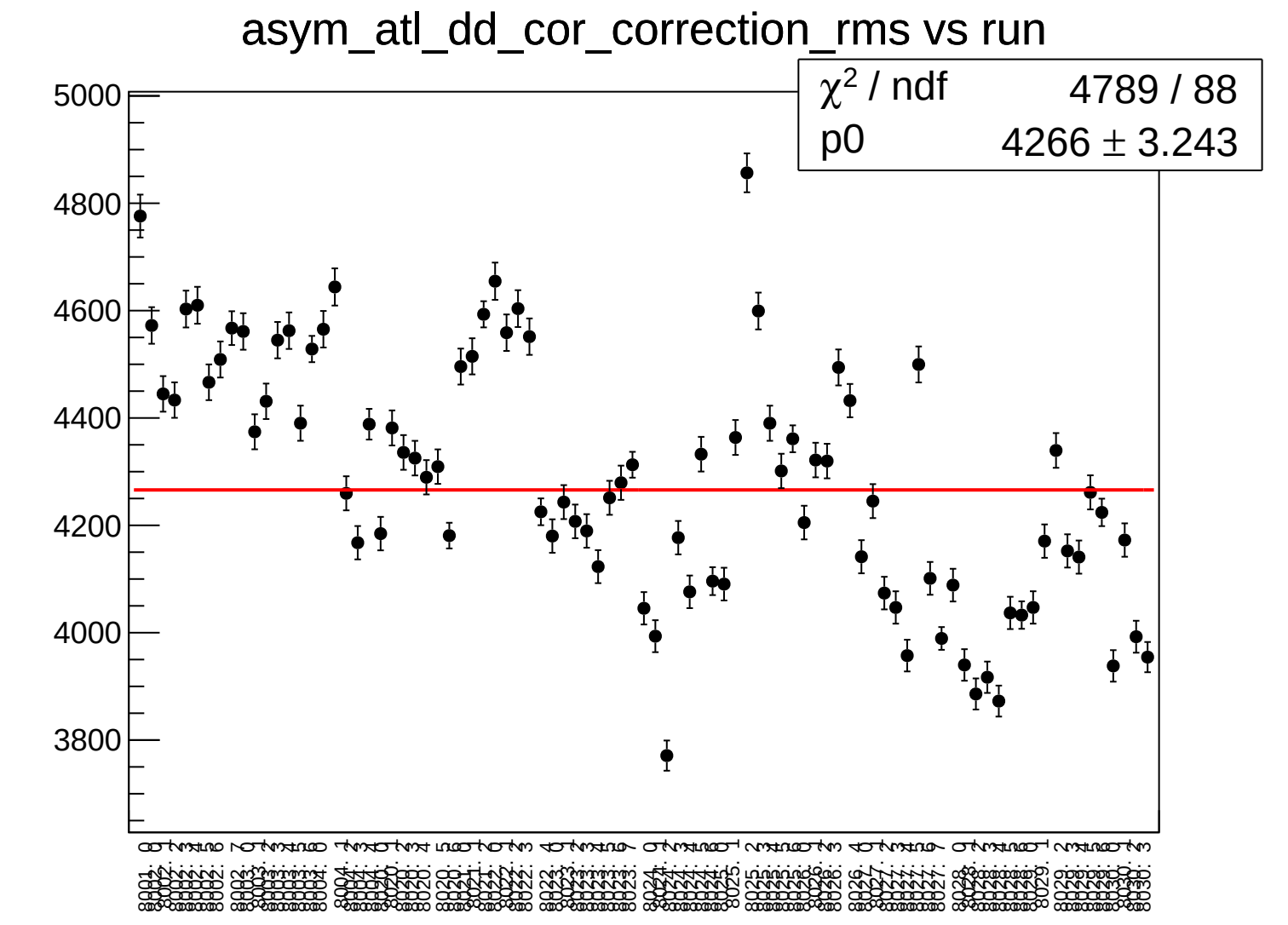

cor_asym_atl_dd_mean vs run
χ² / ndf 91.76 / 88
p0 −698.6 ± 1726
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −81.31
Std Dev 0
2
1
0
−1
−2

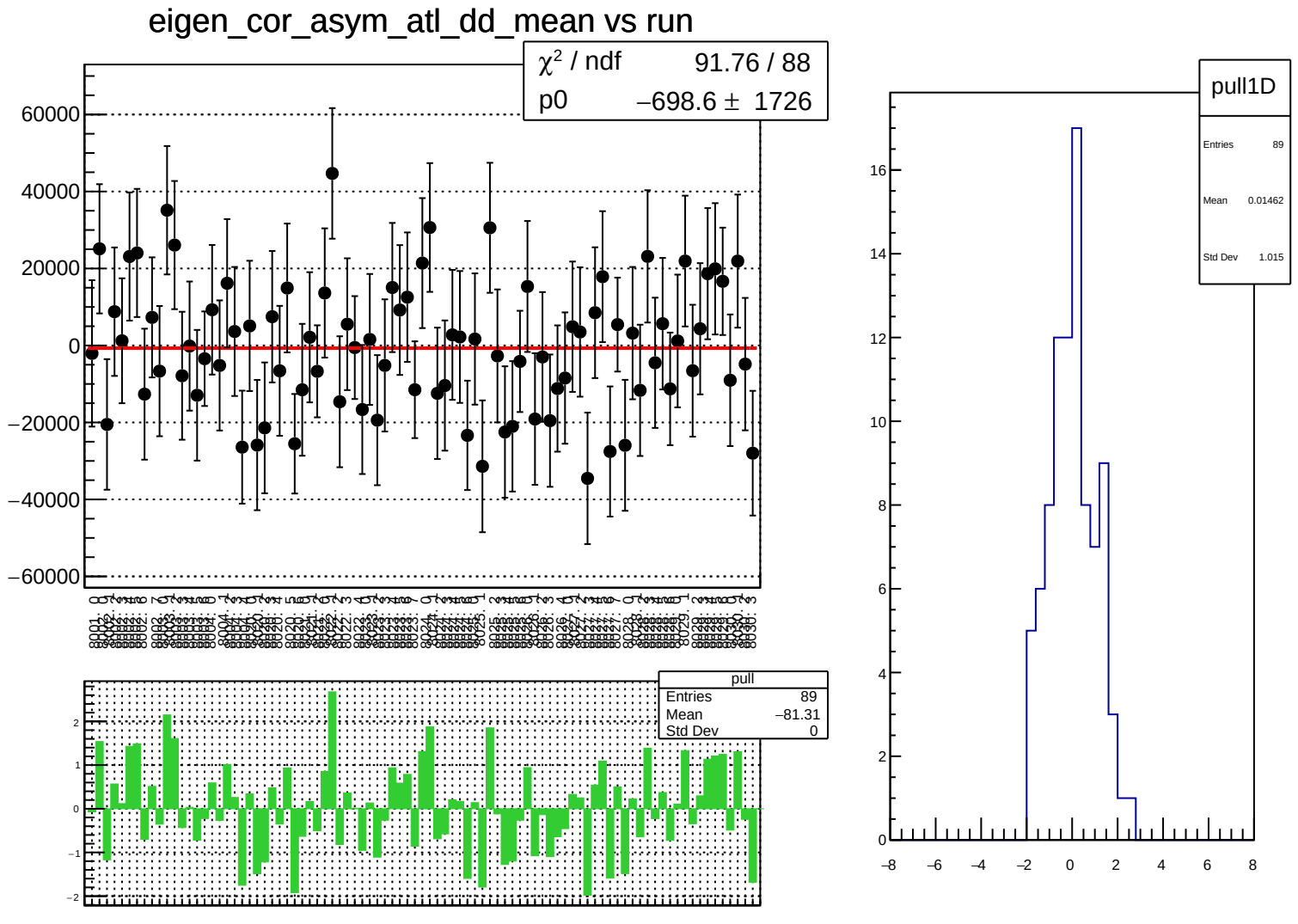

pull1D
Entries 89
Mean 0.01462
Std Dev 1.015
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

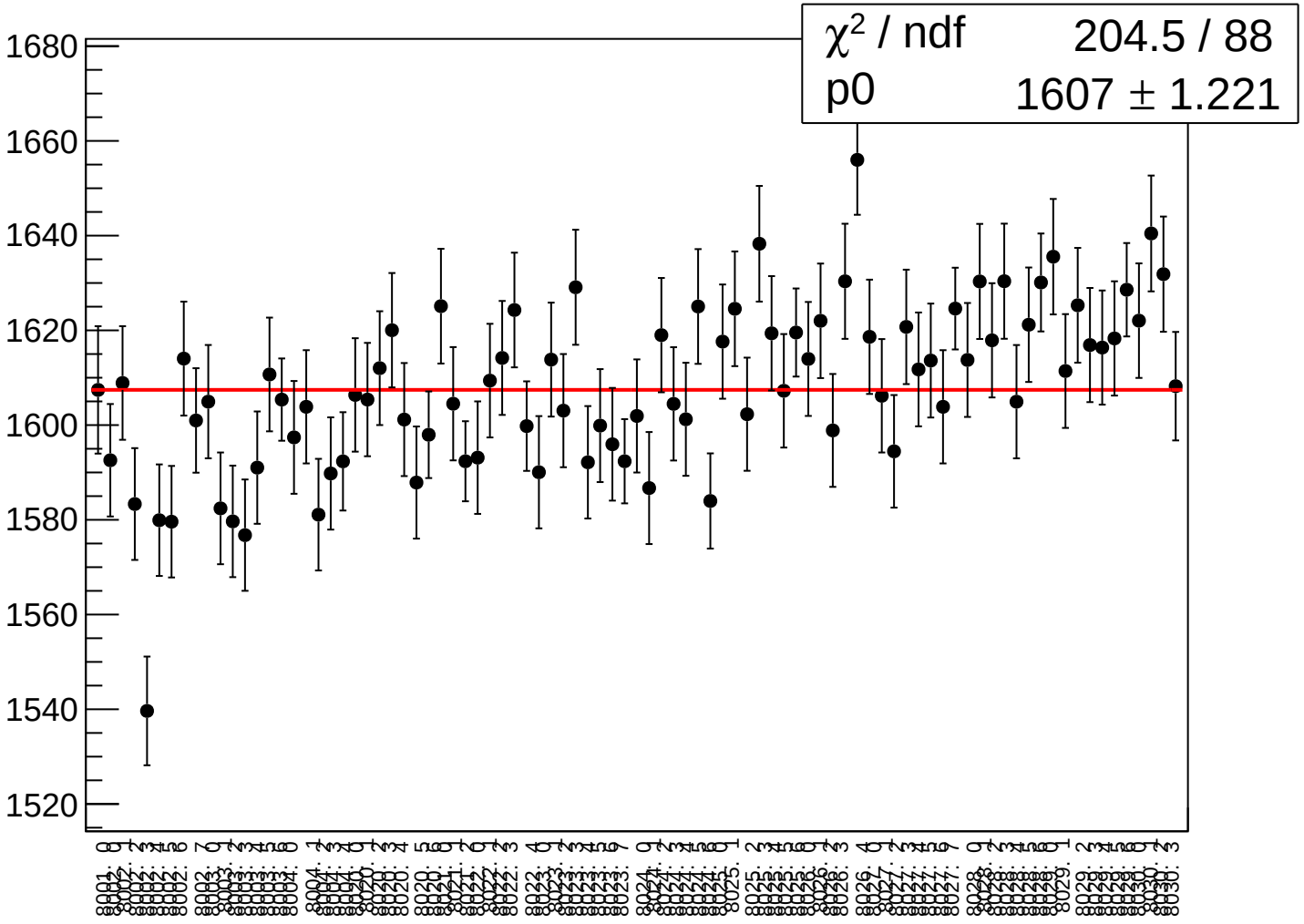

cor_asym_atl_dd_rms vs run
χ² / ndf 204.5 / 88
p0 1607 ± 1.221
1680
1660
1640
1620
1600
1580
1560
1540
1520

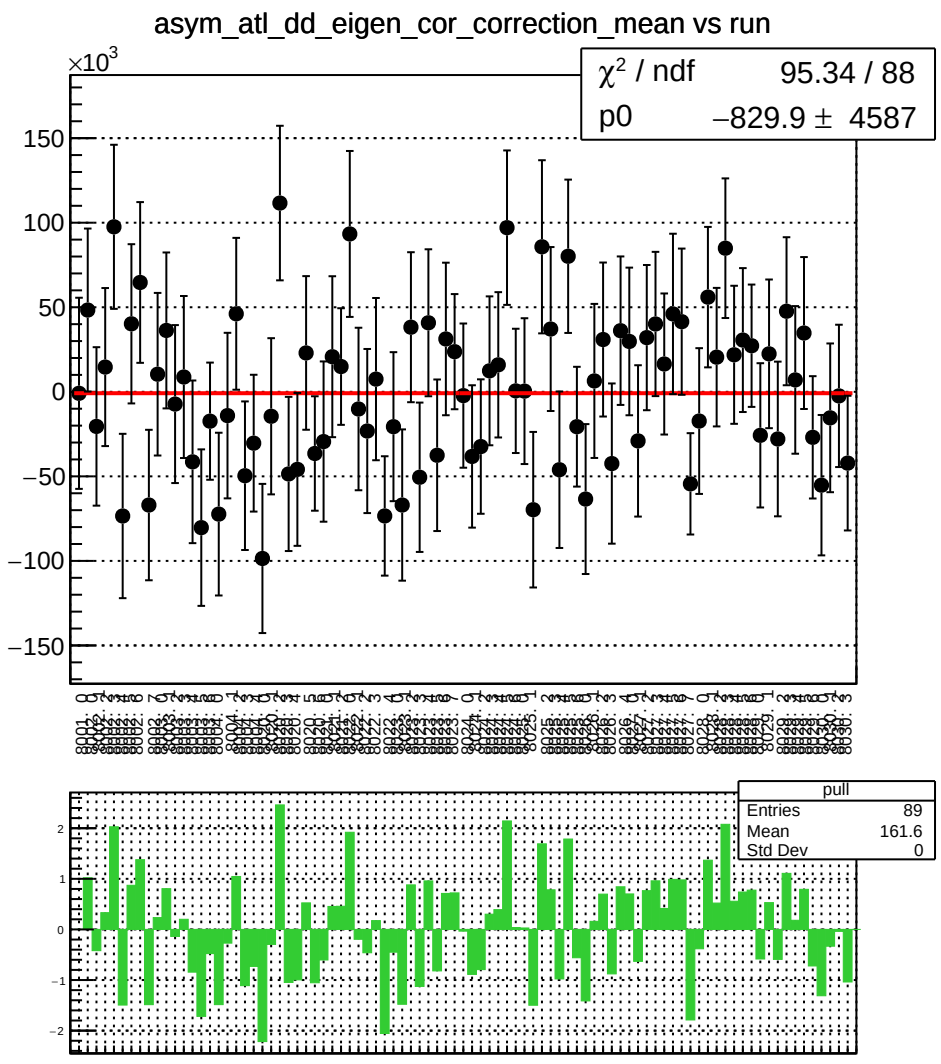

asym_atl_dd_cor_correction_mean vs run
×10^3
χ² / ndf 95.34 / 88
p0 −829.9 ± 4587
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean 161.6
Std Dev 0
2
1
0
−1
−2

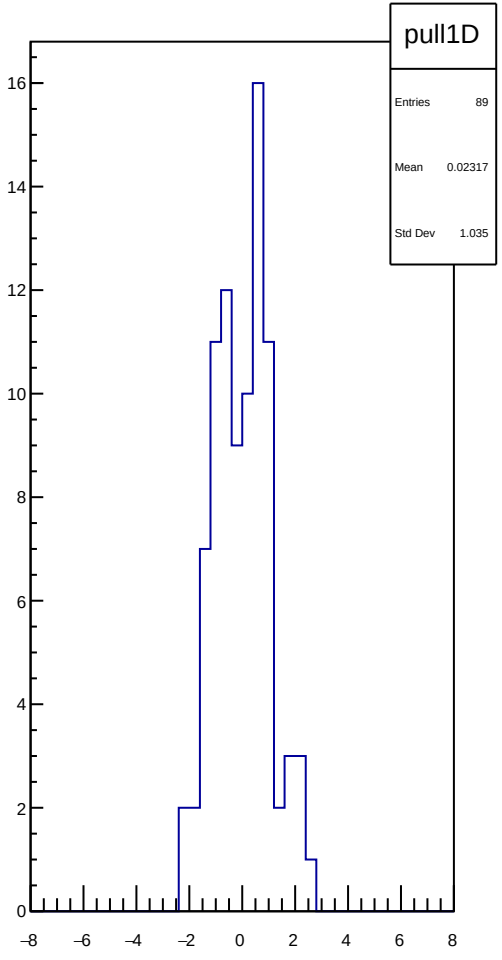

pull1D
Entries 89
Mean 0.02317
Std Dev 1.035
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

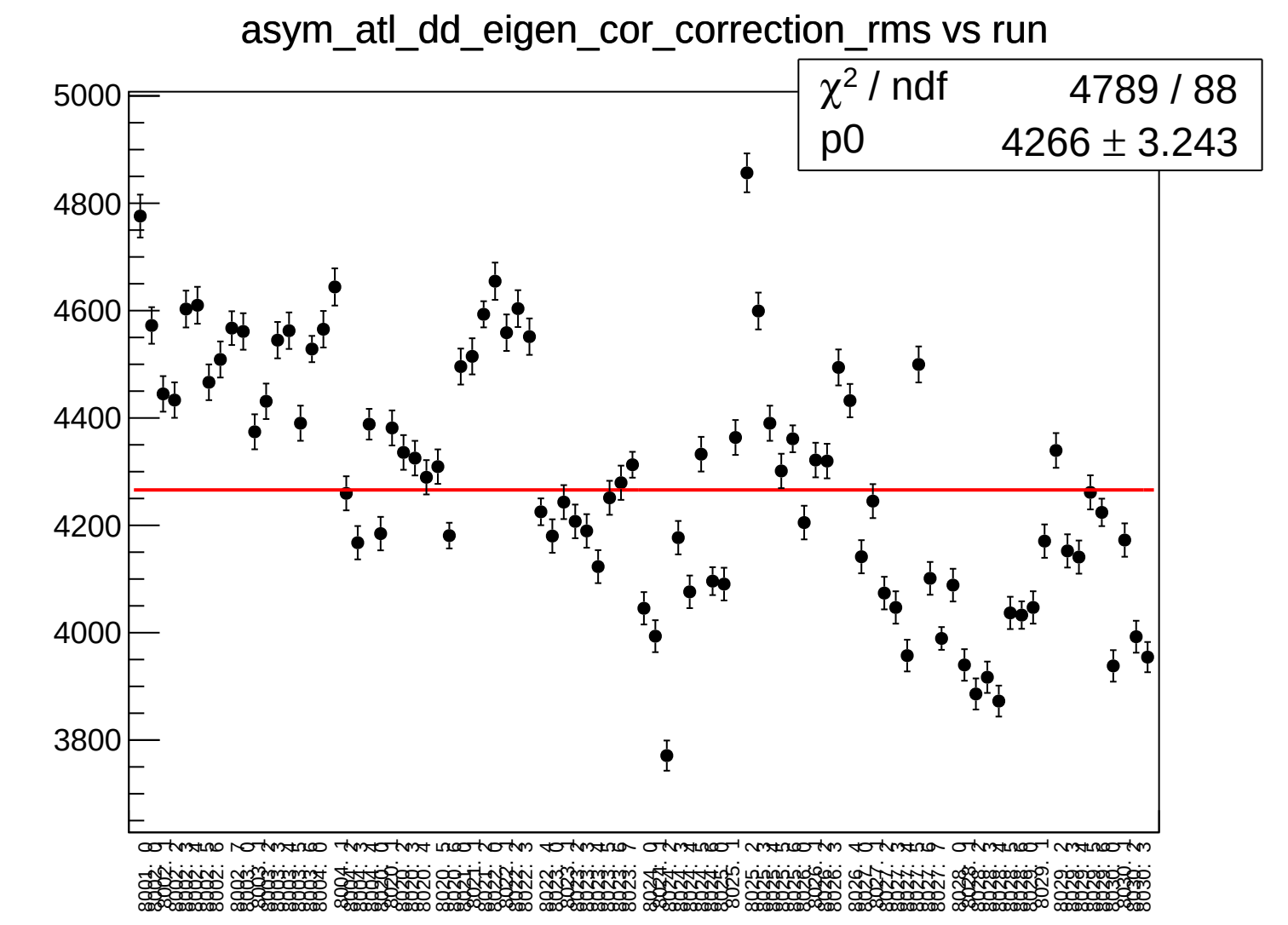

asym_atl_dd_cor_correction_rms vs run
χ² / ndf 4789 / 88
p0 4266 ± 3.243
5000
4800
4600
4400
4200
4000
3800

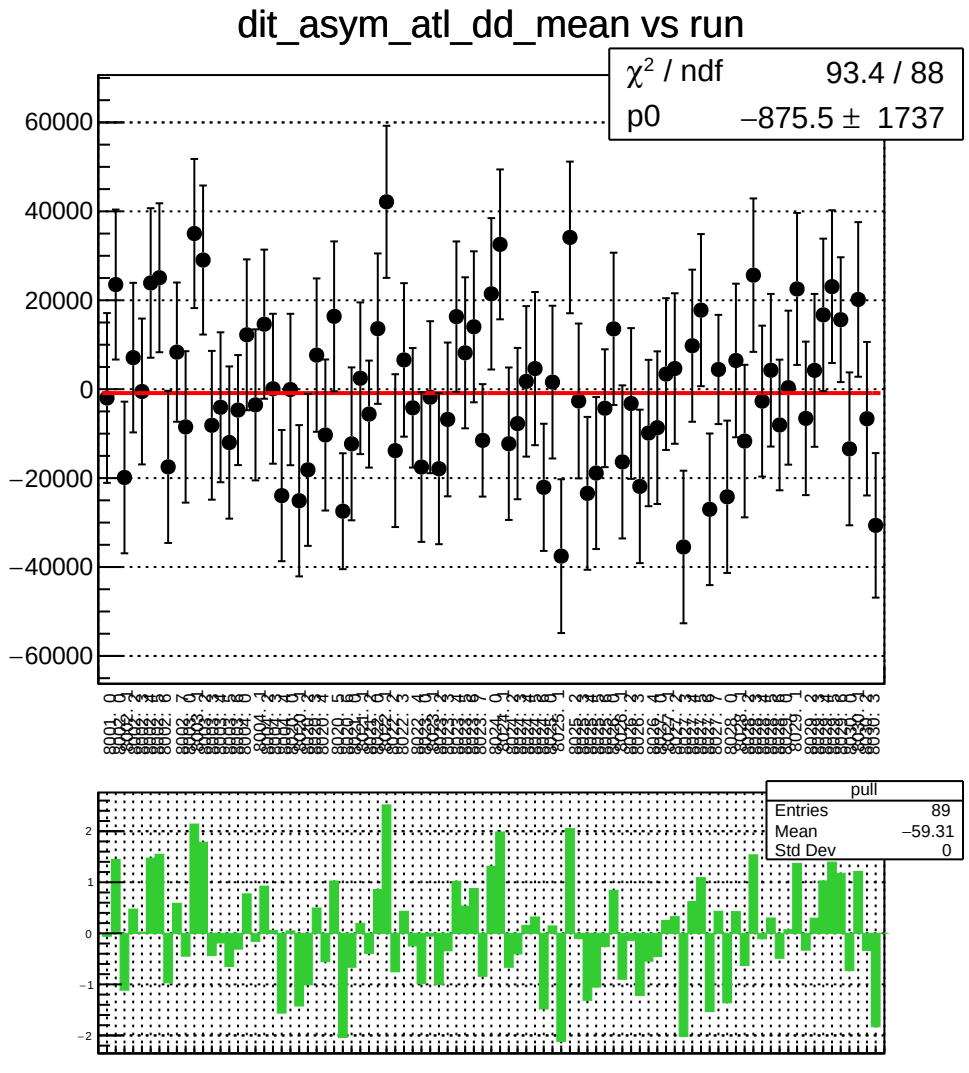

eigen_cor_asym_atl_dd_mean vs run
χ² / ndf 91.76 / 88
p0 −698.6 ± 1726
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −81.31
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.01462
Std Dev 1.015
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

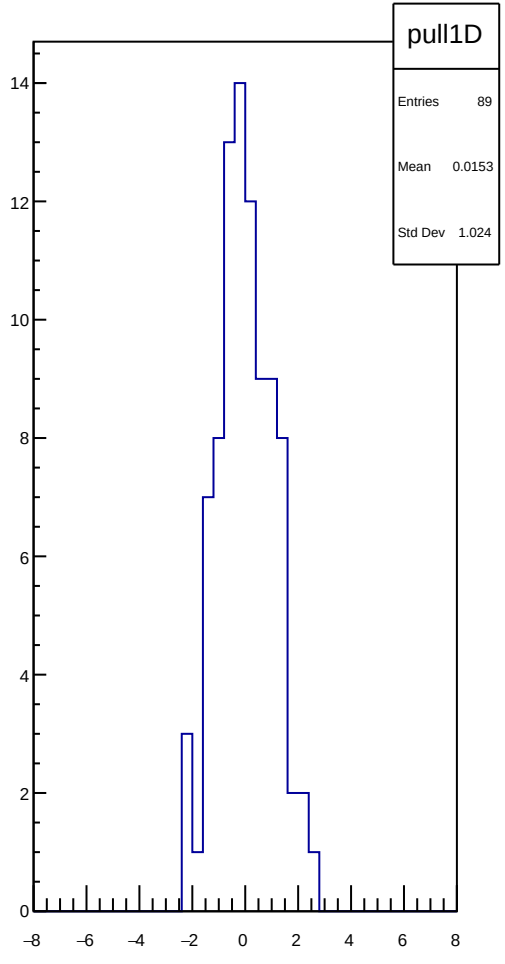

eigen_cor_asym_atl_dd_rms vs run
χ² / ndf 204.5 / 88
p0 1607 ± 1.221
1680
1660
1640
1620
1600
1580
1560
1540
1520

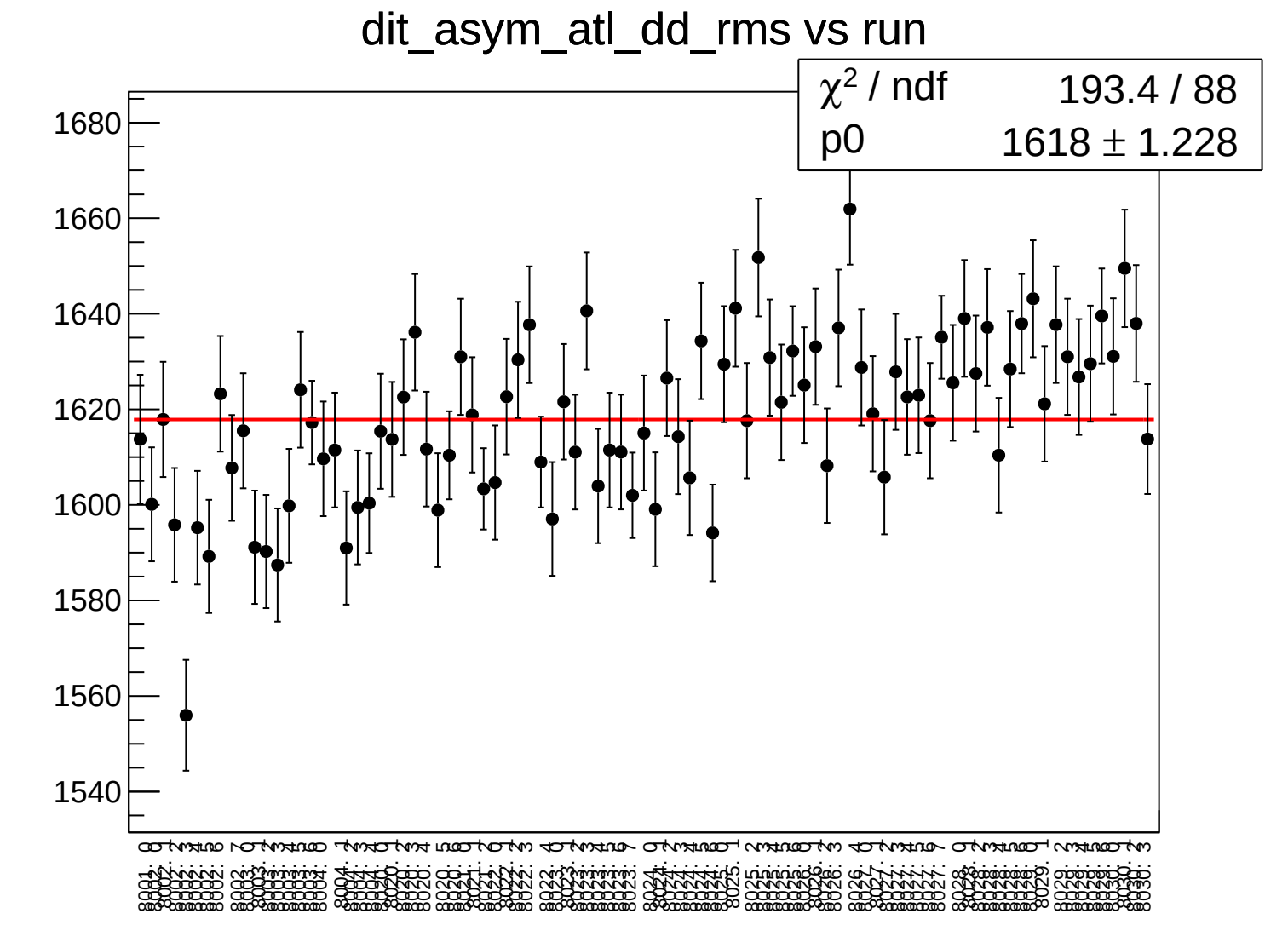

asym_atl_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 95.34 / 88
p0 −829.9 ± 4587
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean 161.6
Std Dev 0
2
1
0
−1
−2

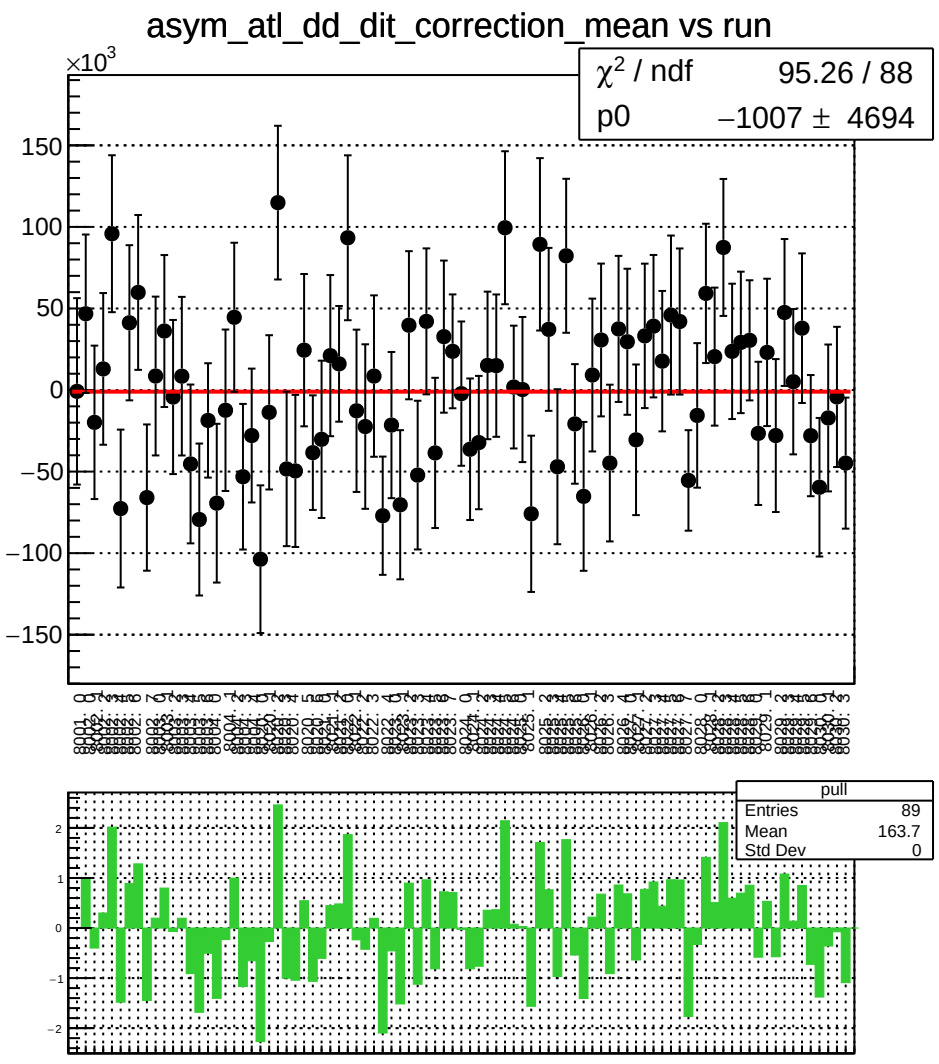

pull1D
Entries 89
Mean 0.02317
Std Dev 1.035
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

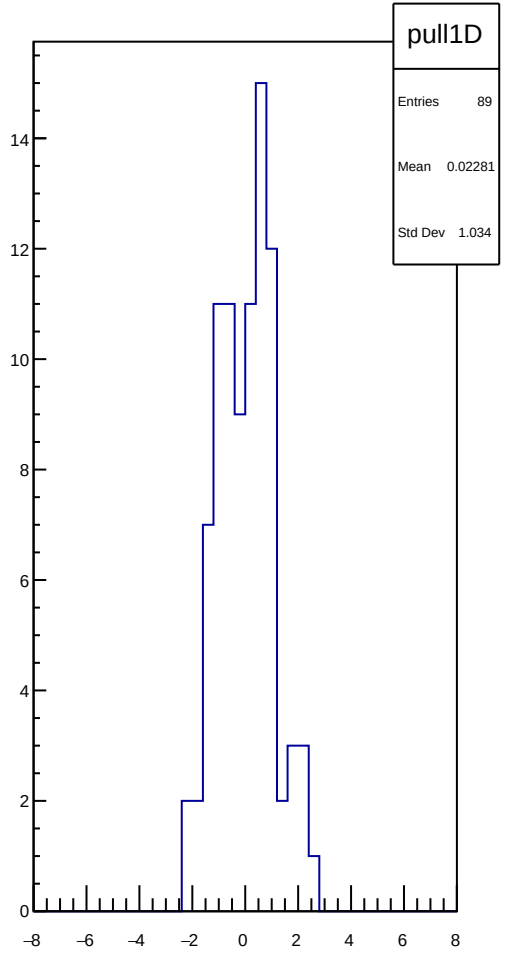

asym_atl_dd_eigen_cor_correction_rms vs run
χ² / ndf 4789 / 88
p0 4266 ± 3.243
5000
4800
4600
4400
4200
4000
3800

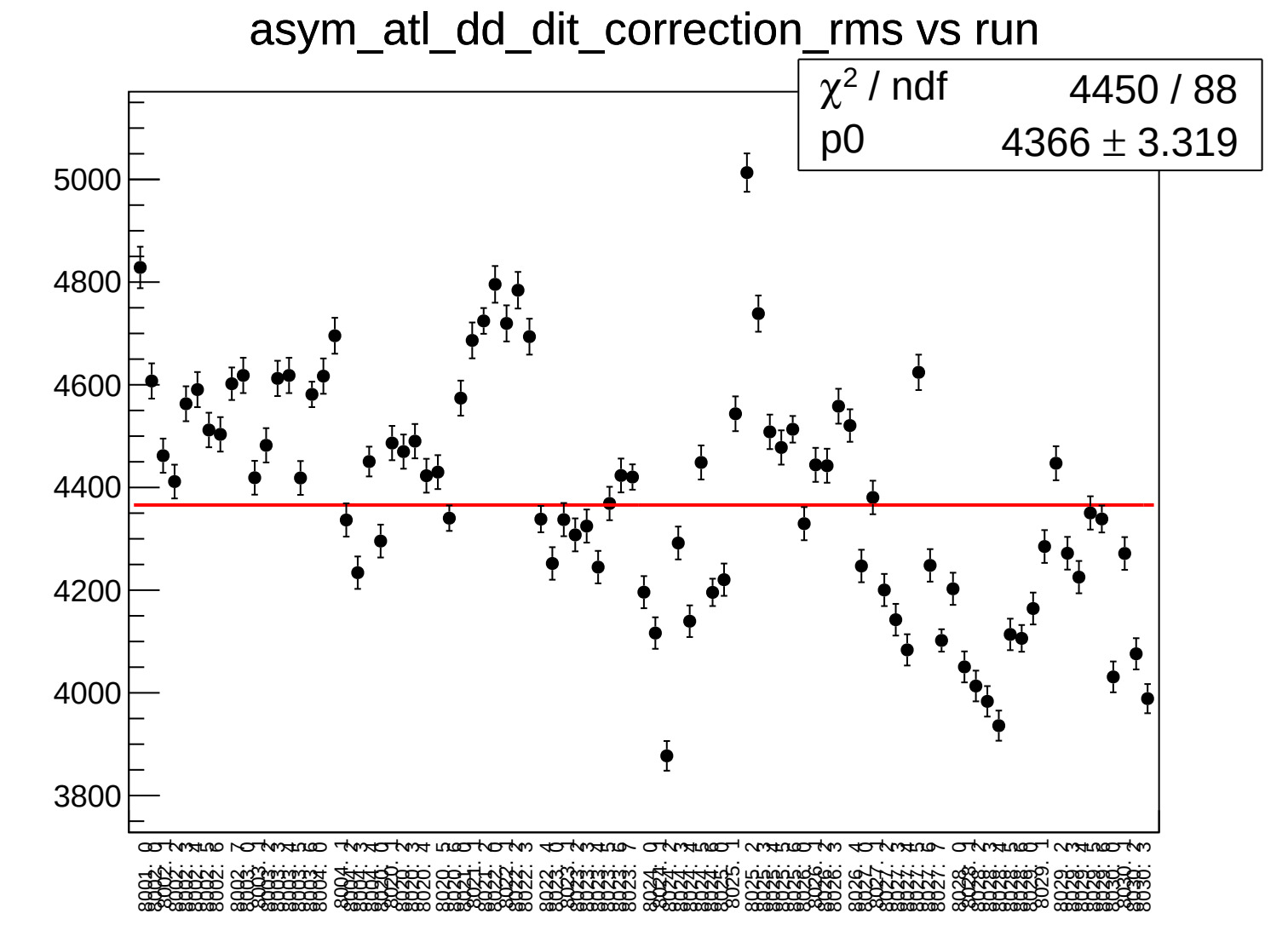

dit_asym_atl_dd_mean vs run
χ² / ndf 93.4 / 88
p0 −875.5 ± 1737
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −59.31
Std Dev 0
2
1
0
−1
−2

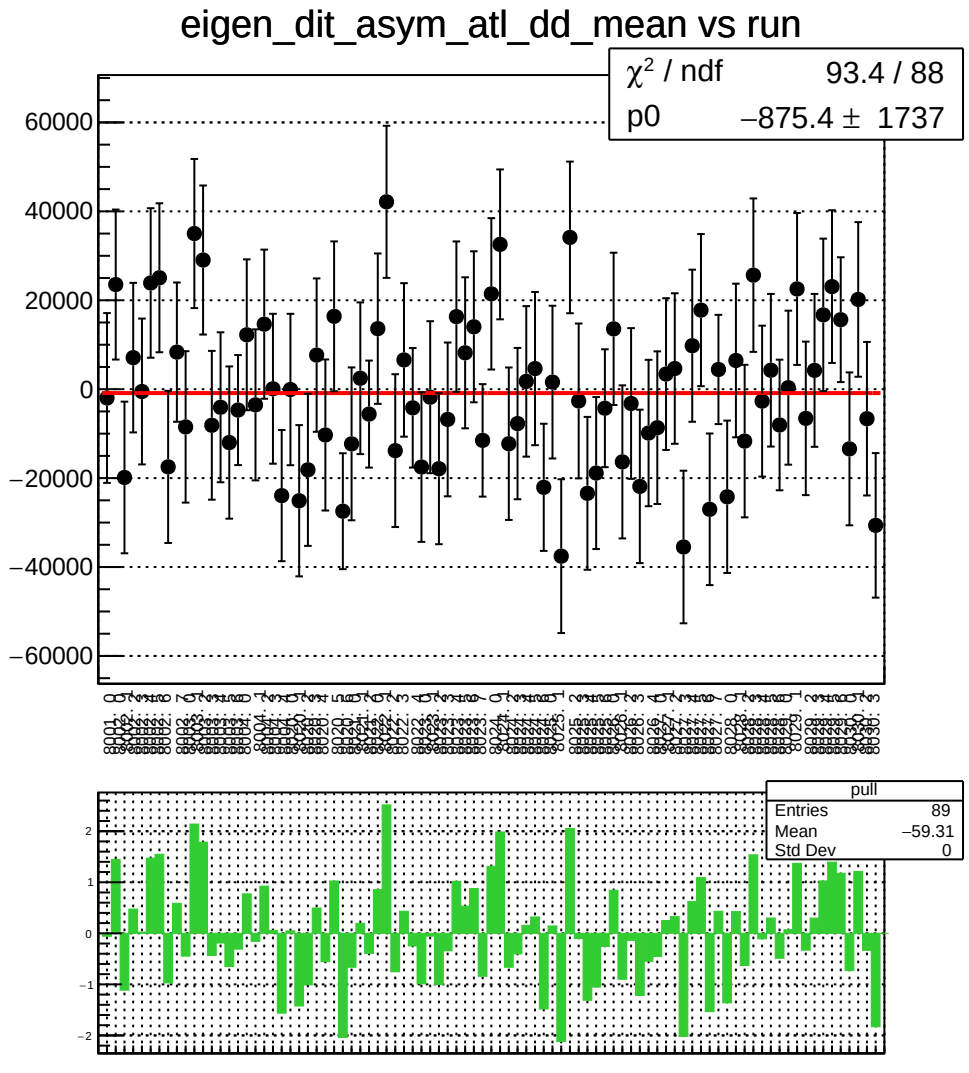

pull1D
Entries 89
Mean 0.0153
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

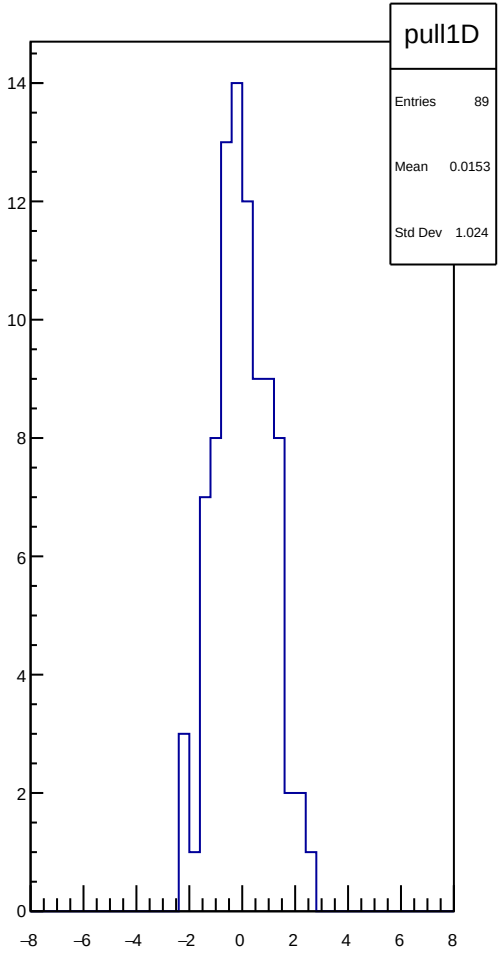

dit_asym_atl_dd_rms vs run
χ^2 / ndf 193.4 / 88
p0 1618 ± 1.228
1680
1660
1640
1620
1600
1580
1560
1540

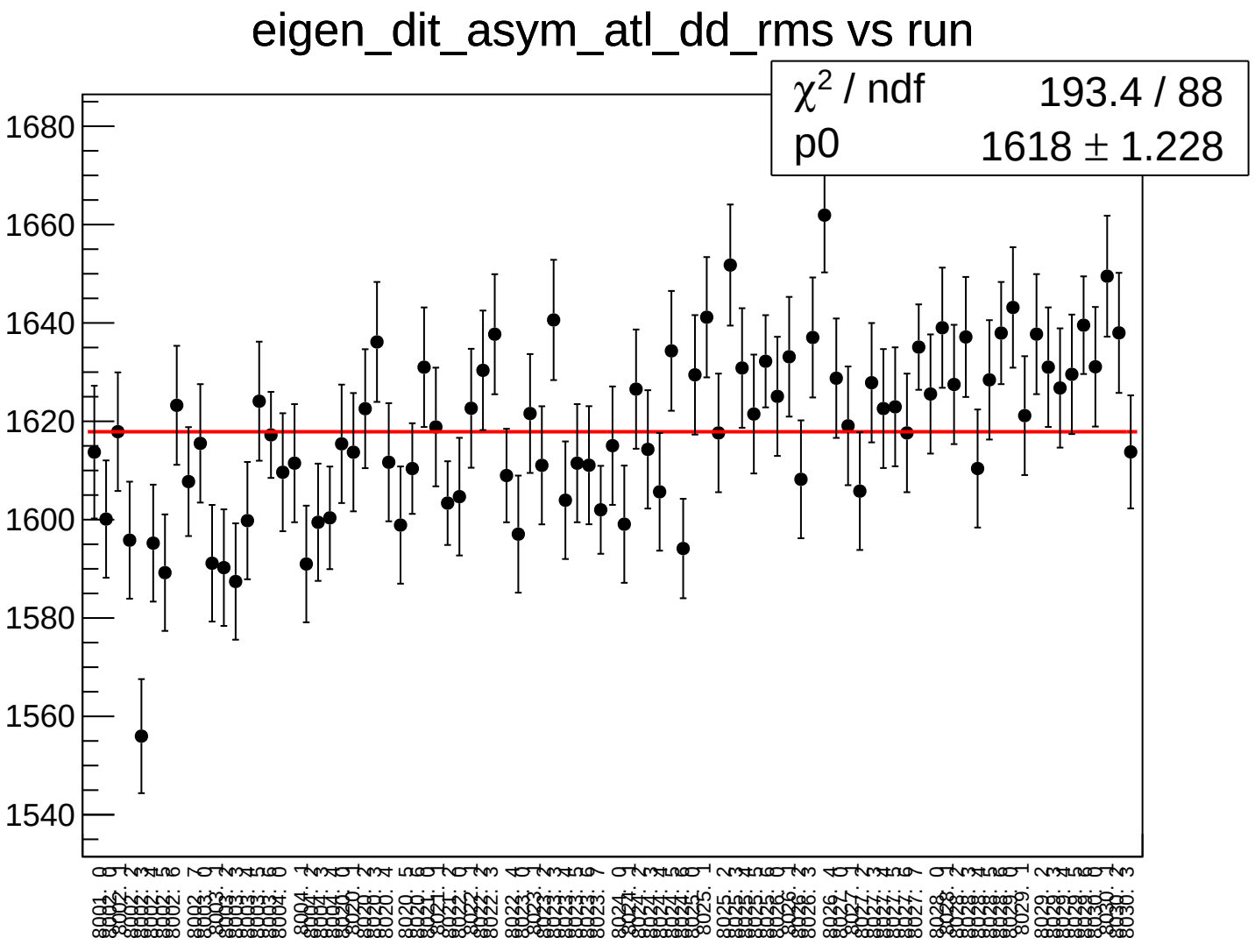

asym_atl_dd_dit_correction_mean vs run
χ² / ndf 95.26 / 88
p0 −1007 ± 4694
×10³
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean 163.7
Std Dev 0
2
1
0
−1
−2

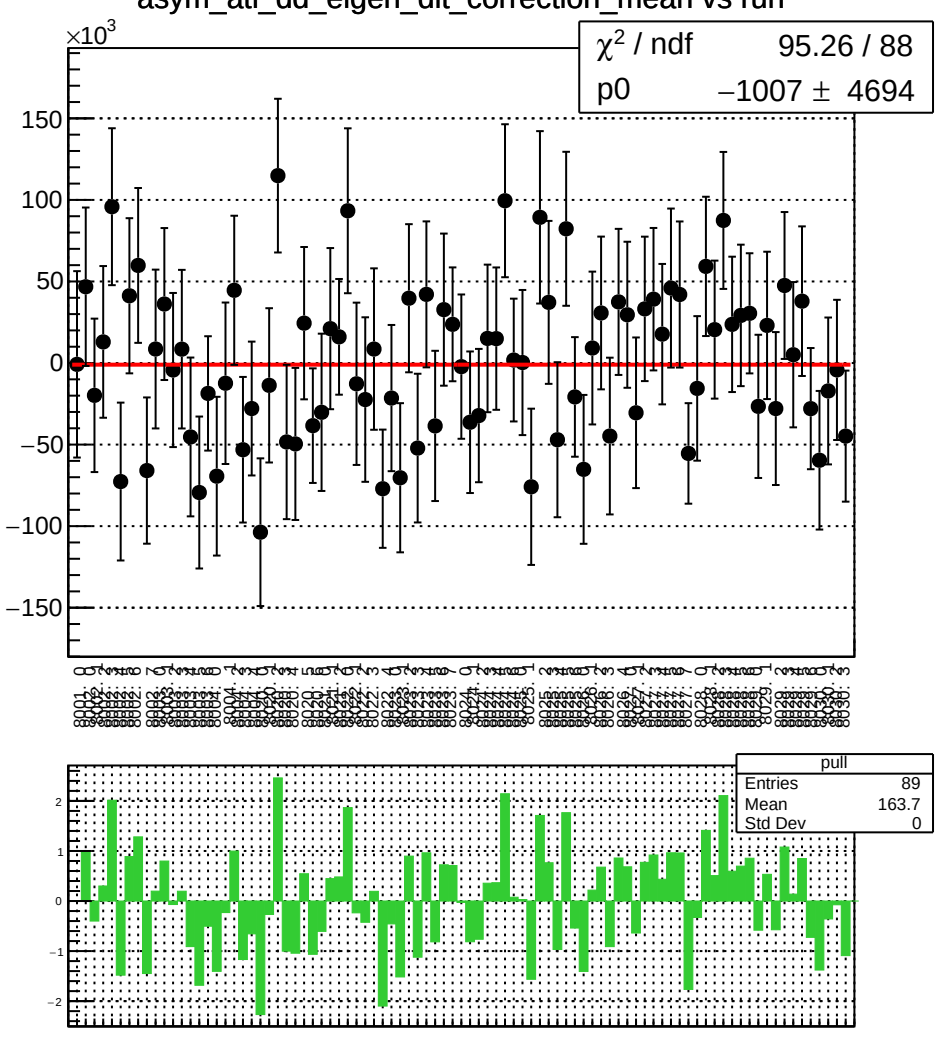

pull1D
Entries 89
Mean 0.02281
Std Dev 1.034
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

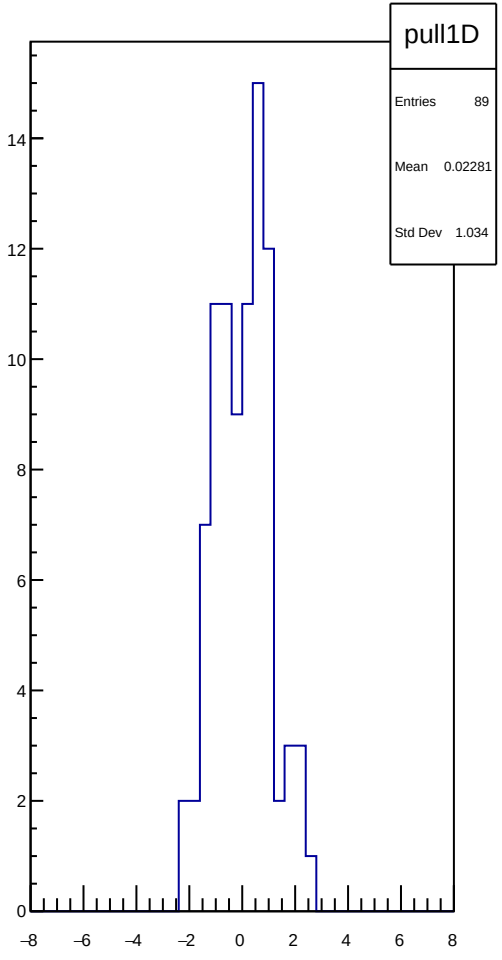

asym_atl_dd_dit_correction_rms vs run
χ² / ndf 4450 / 88
p0 4366 ± 3.319
5000
4800
4600
4400
4200
4000
3800

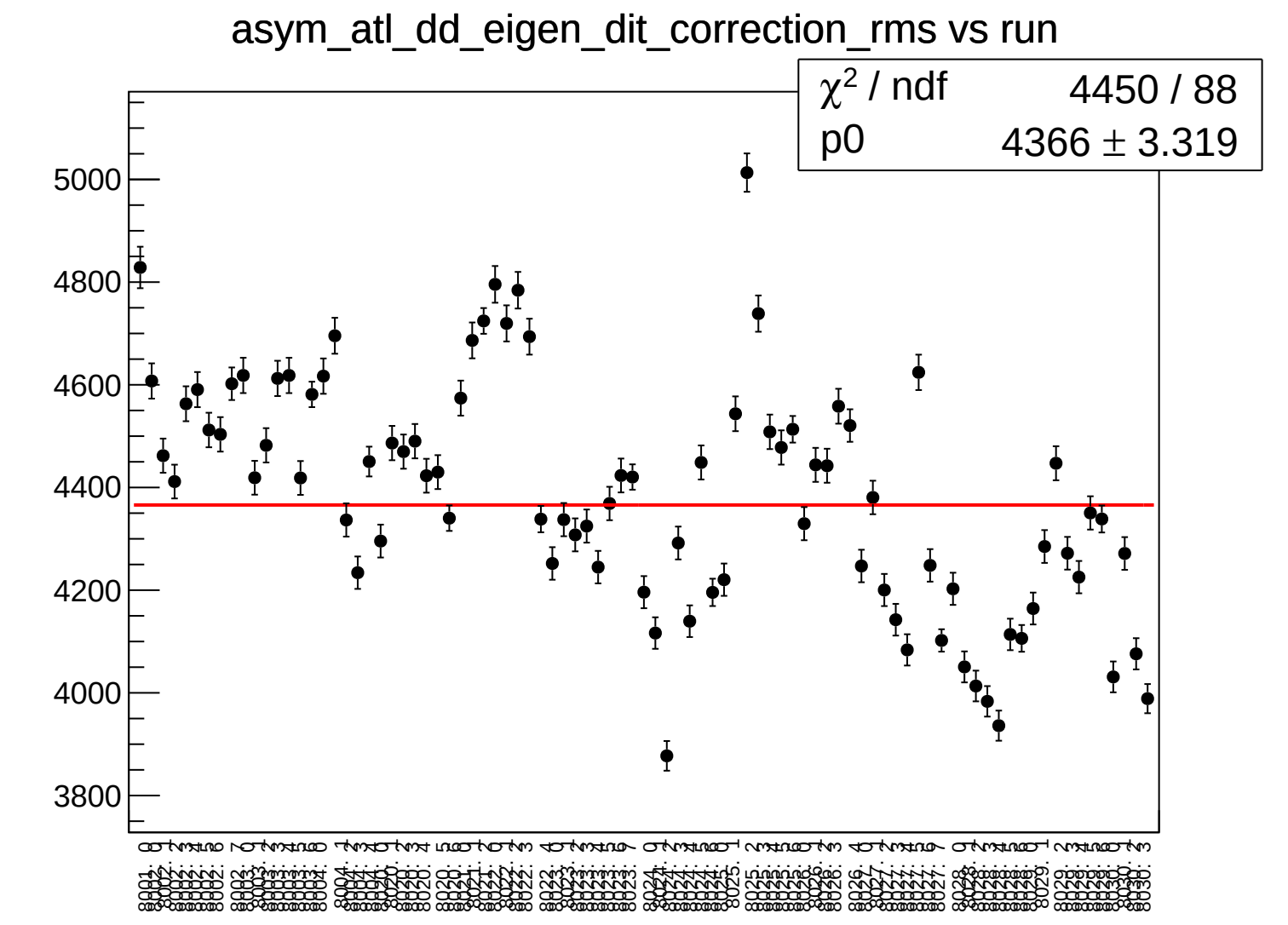

eigen_dit_asym_atl_dd_mean vs run
χ² / ndf 93.4 / 88
p0 −875.4 ± 1737
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −59.31
Std Dev 0
2
1
0
−1
−2

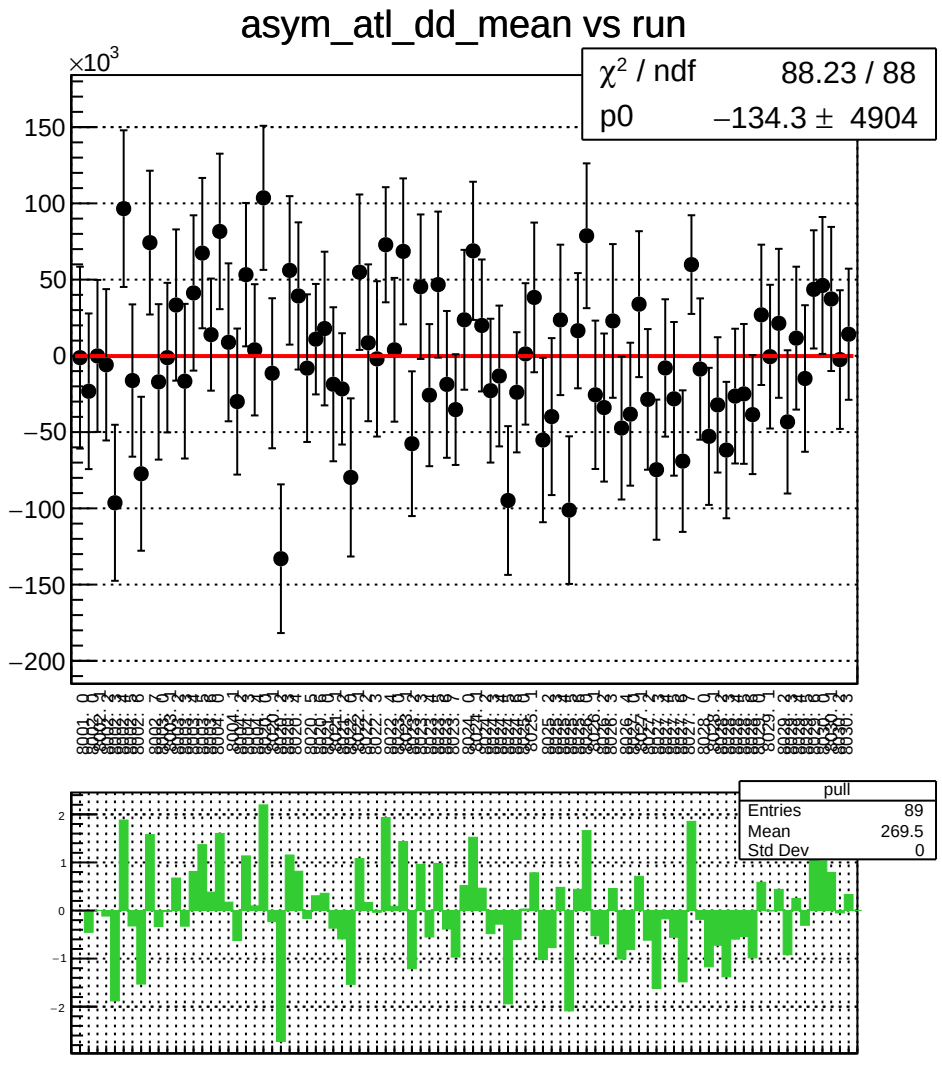

pull1D
Entries 89
Mean 0.0153
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

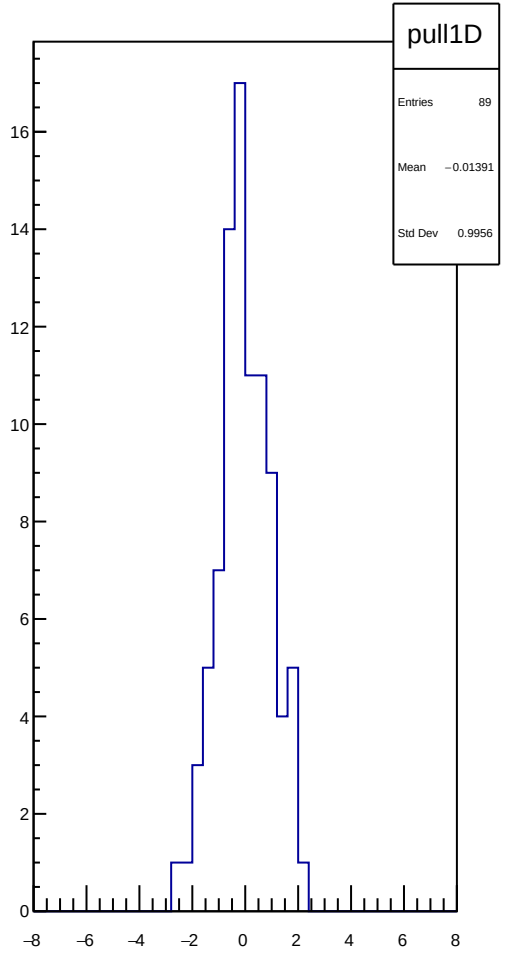

eigen_dit_asym_atl_dd_rms vs run
χ^2 / ndf 193.4 / 88
p0 1618 ± 1.228
1680
1660
1640
1620
1600
1580
1560
1540

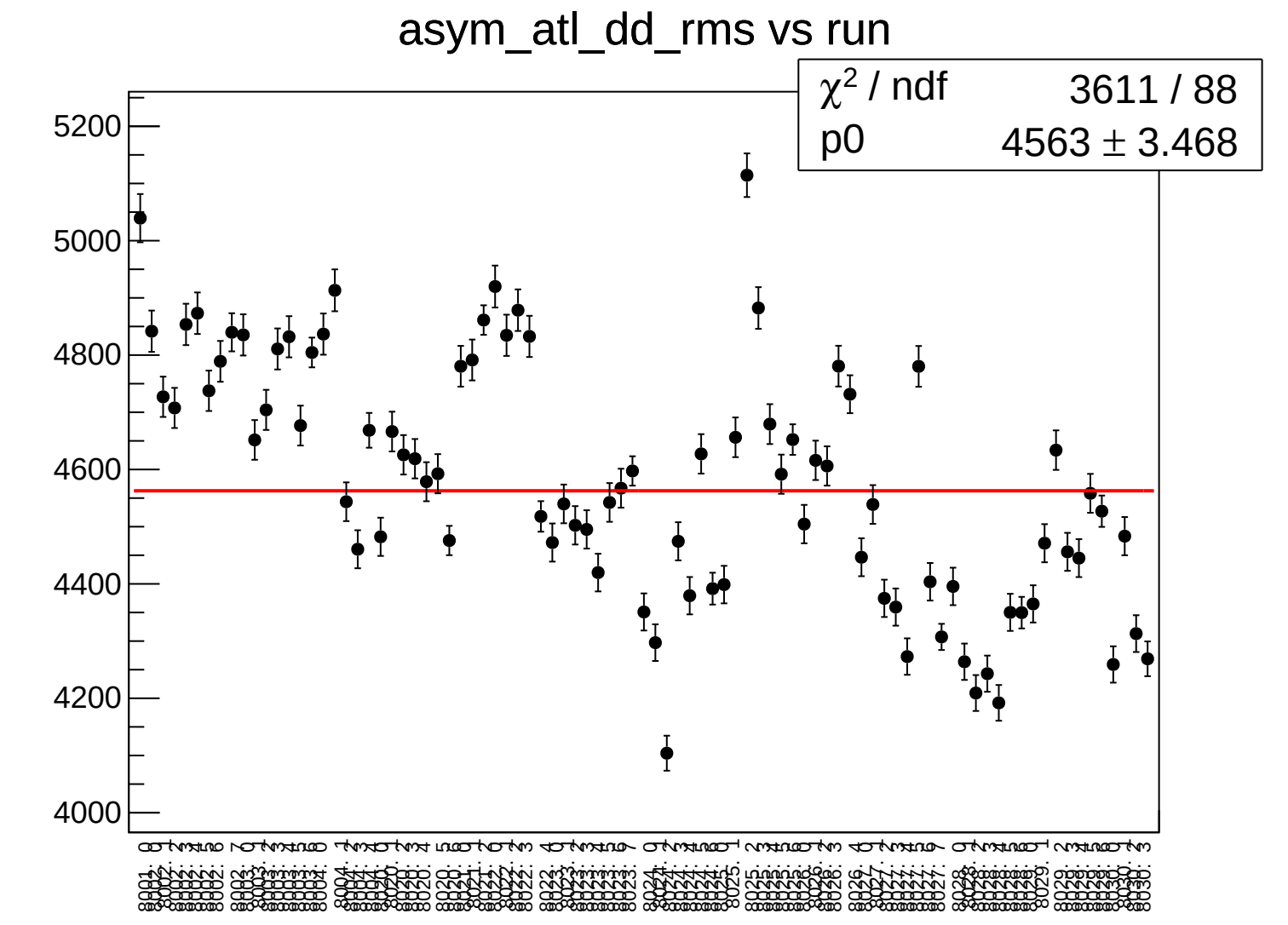

asym_atl_dd_eigen_dit_correction_mean vs run
χ² / ndf 95.26 / 88
p0 −1007 ± 4694
pull
Entries 89
Mean 163.7
Std Dev 0

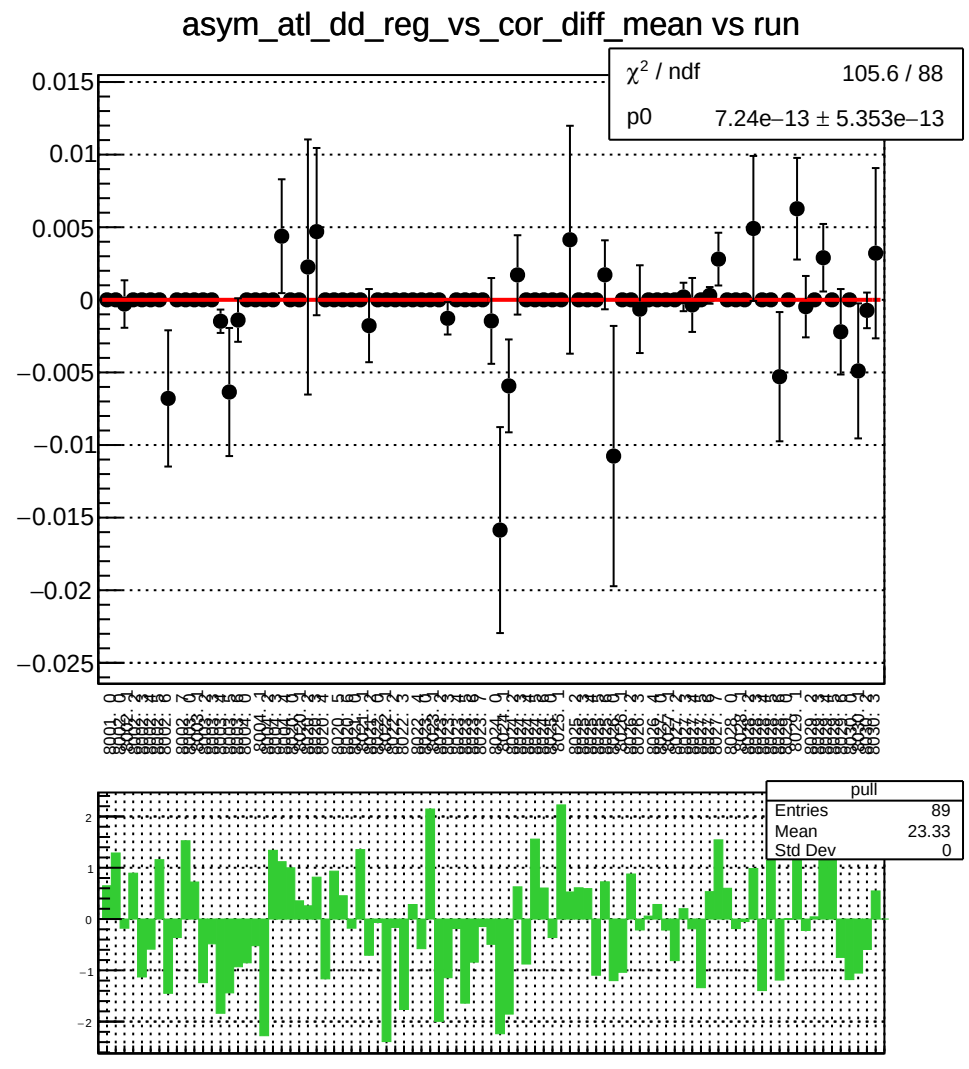

pull1D
Entries 89
Mean 0.02281
Std Dev 1.034

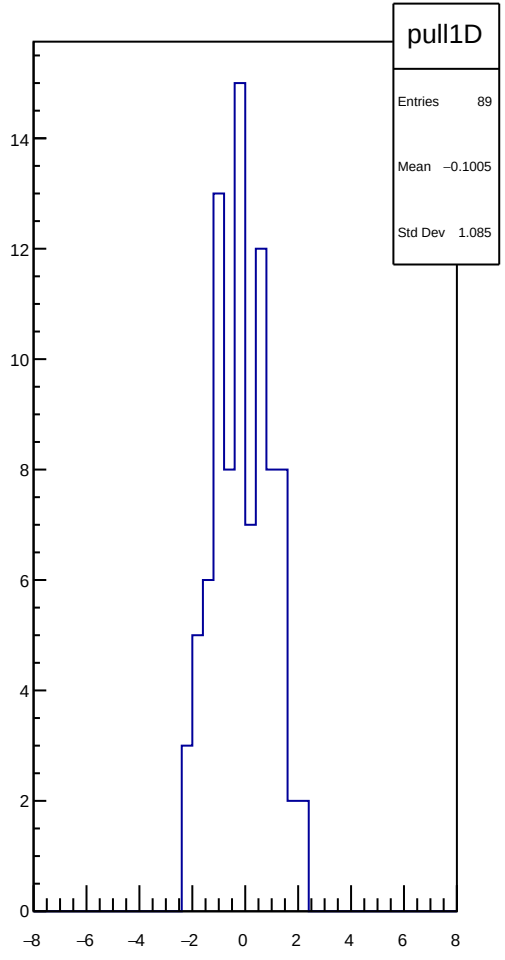

asym_atl_dd_eigen_dit_correction_rms vs run
χ² / ndf 4450 / 88
p0 4366 ± 3.319
5000
4800
4600
4400
4200
4000
3800

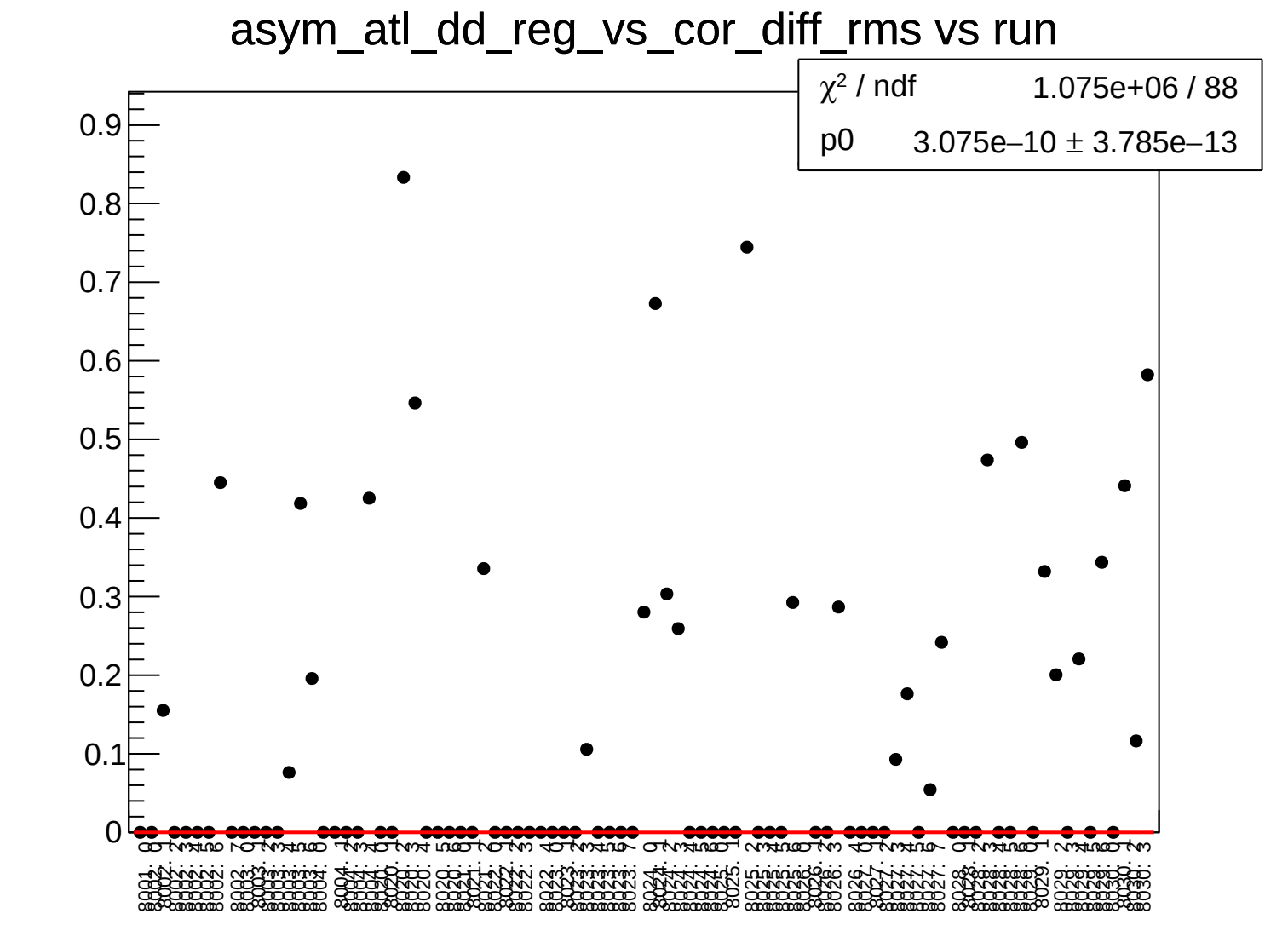

asym_atl_dd_mean vs run
×10^3
χ² / ndf 88.23 / 88
p0 −134.3 ± 4904
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean 269.5
Std Dev 0
2
1
0
−1
−2

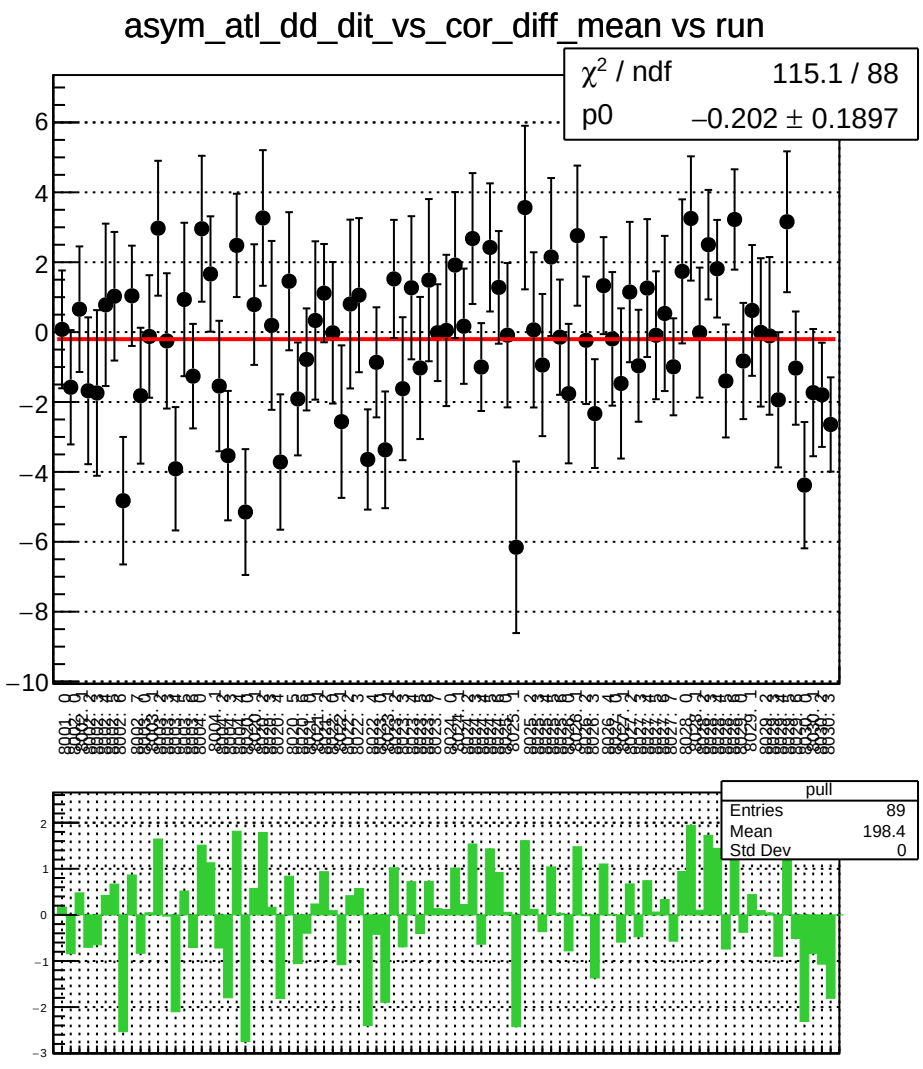

pull1D
Entries 89
Mean −0.01391
Std Dev 0.9956
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

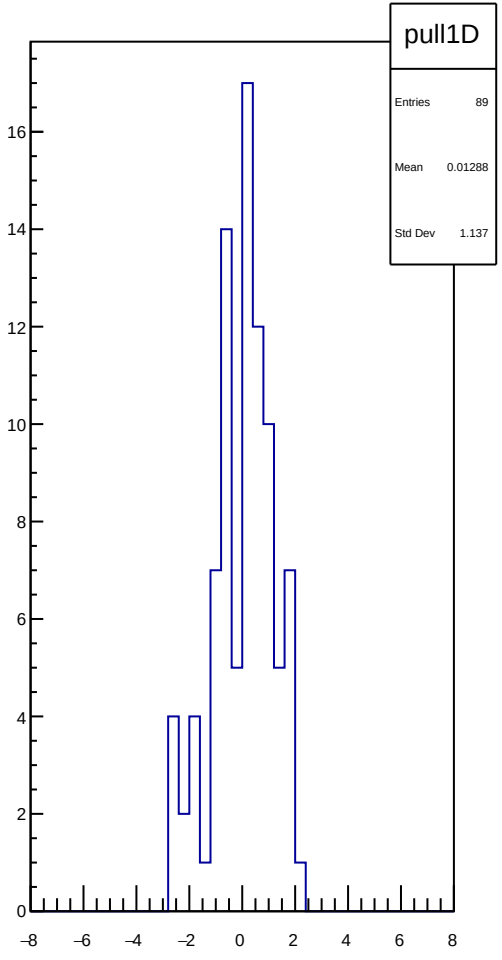

asym_atl_dd_rms vs run
χ^2 / ndf 3611 / 88
p0 4563 ± 3.468
5200
5000
4800
4600
4400
4200
4000

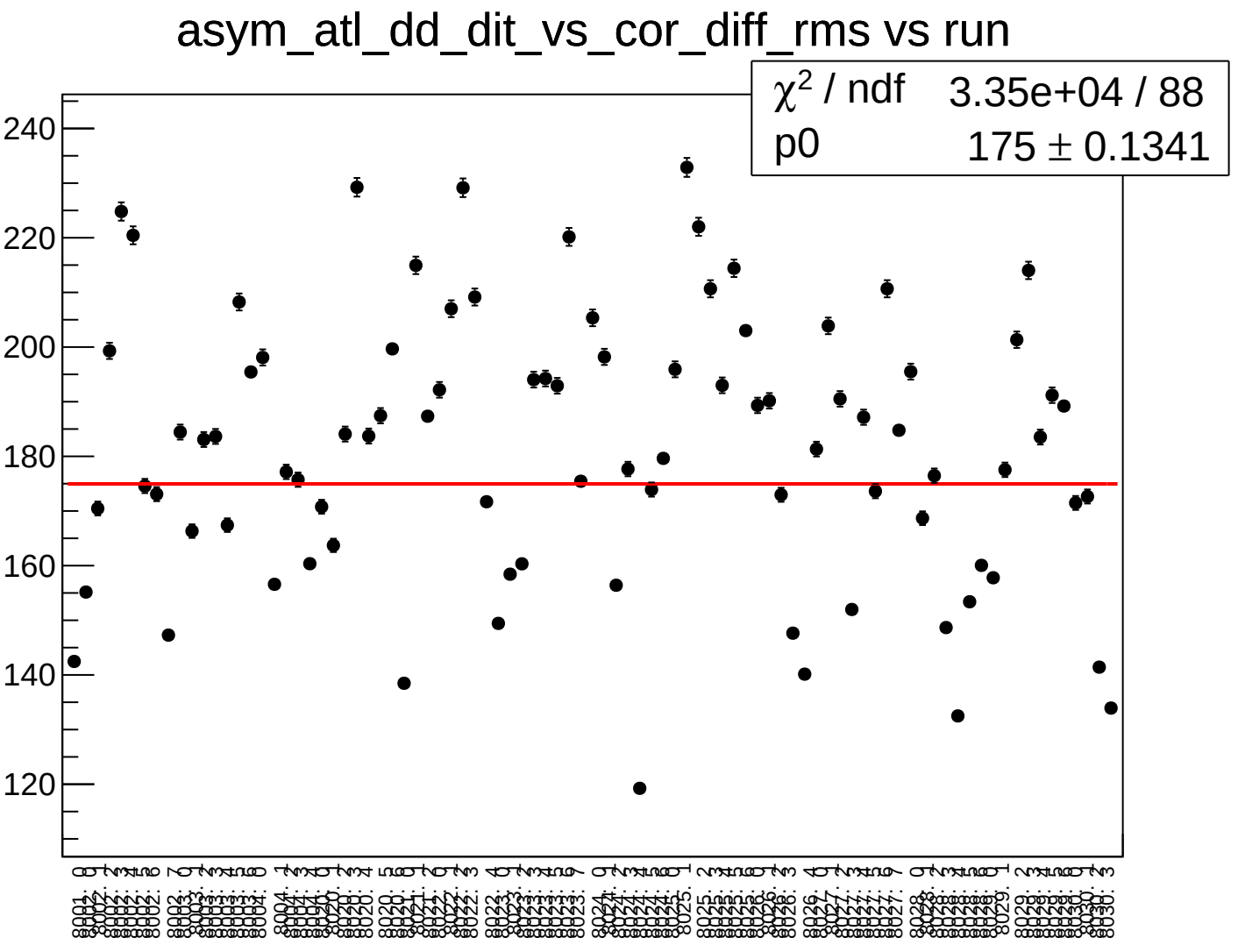

asym_atl_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 105.6 / 88
p0 7.24e−13 ± 5.353e−13
pull
Entries 89
Mean 23.33
Std Dev 0

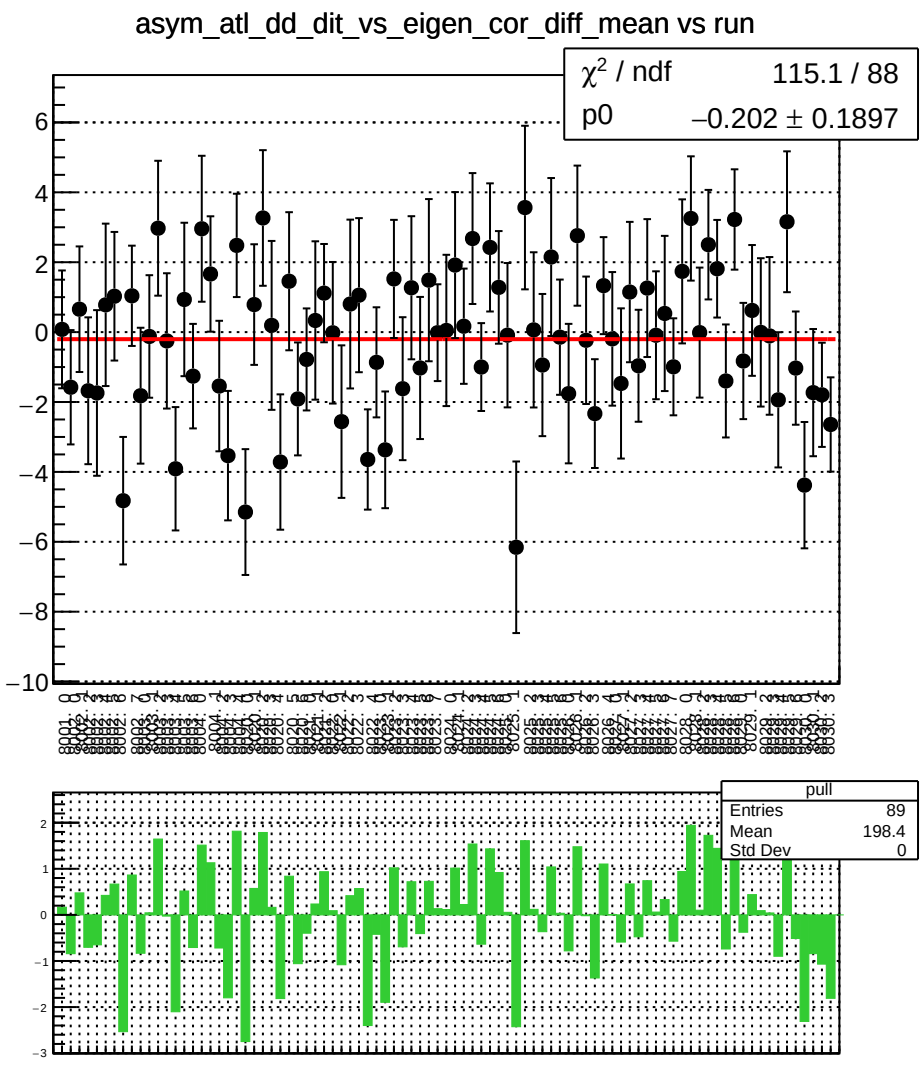

pull1D
Entries 89
Mean −0.1005
Std Dev 1.085

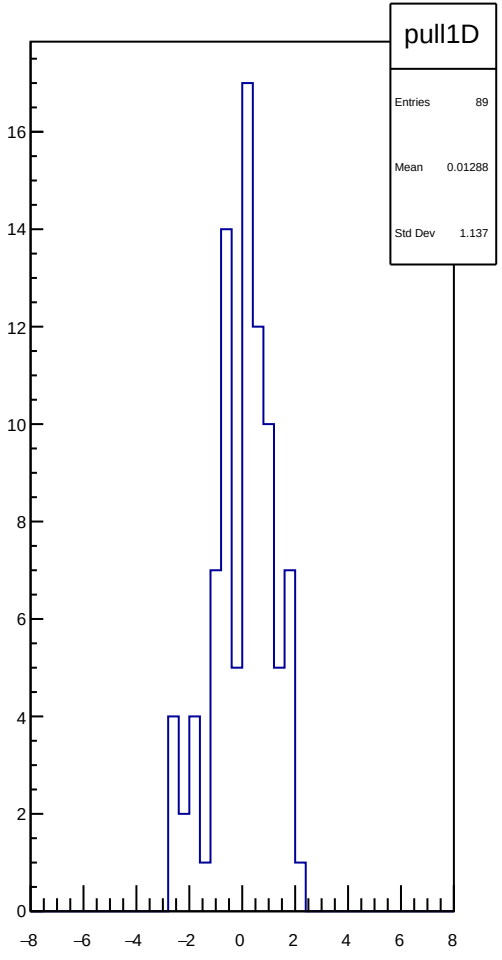

asym_atl_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.075e+06 / 88
p0 3.075e−10 ± 3.785e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

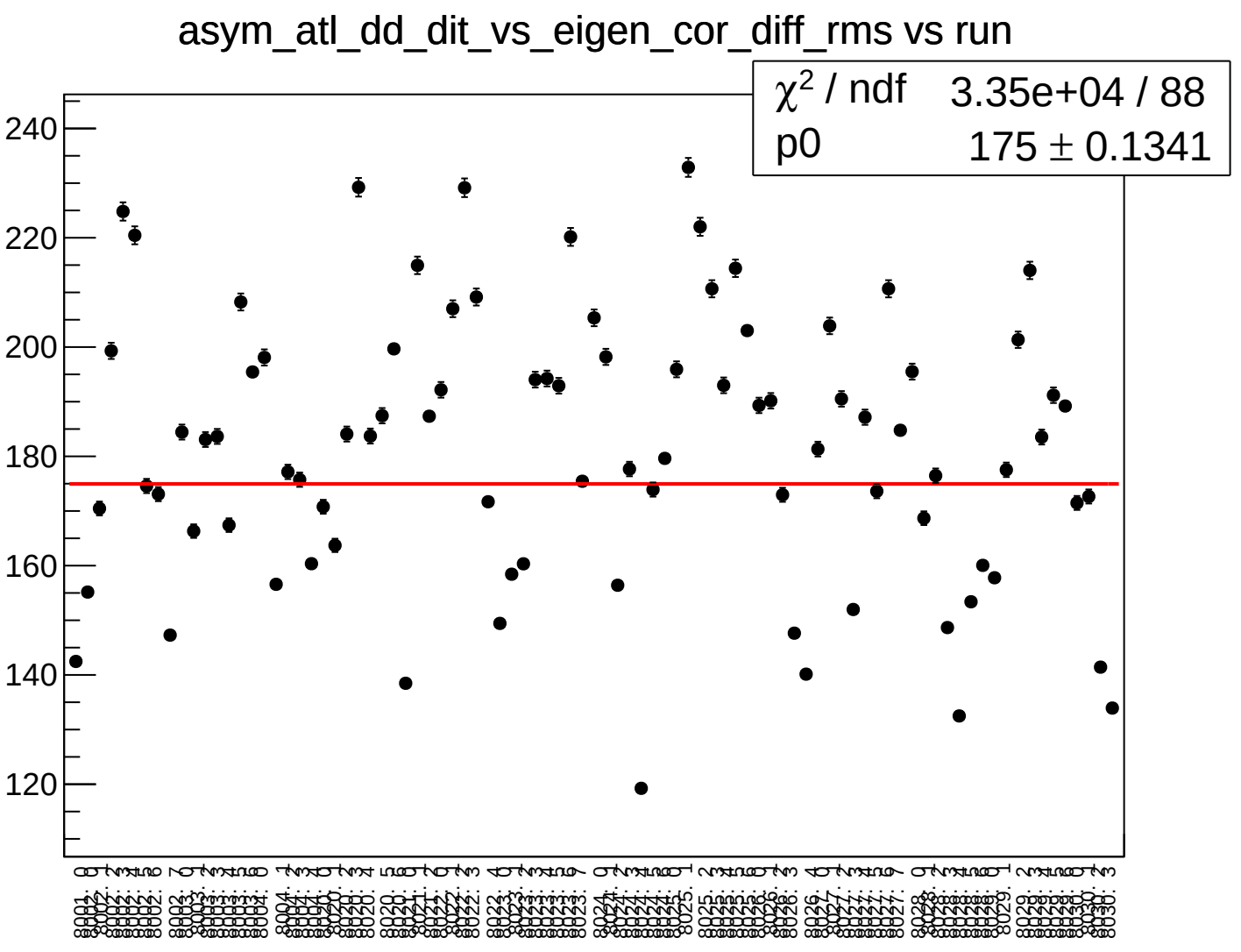

asym_atl_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 115.1 / 88
p0 −0.202 ± 0.1897
pull
Entries 89
Mean 198.4
Std Dev 0

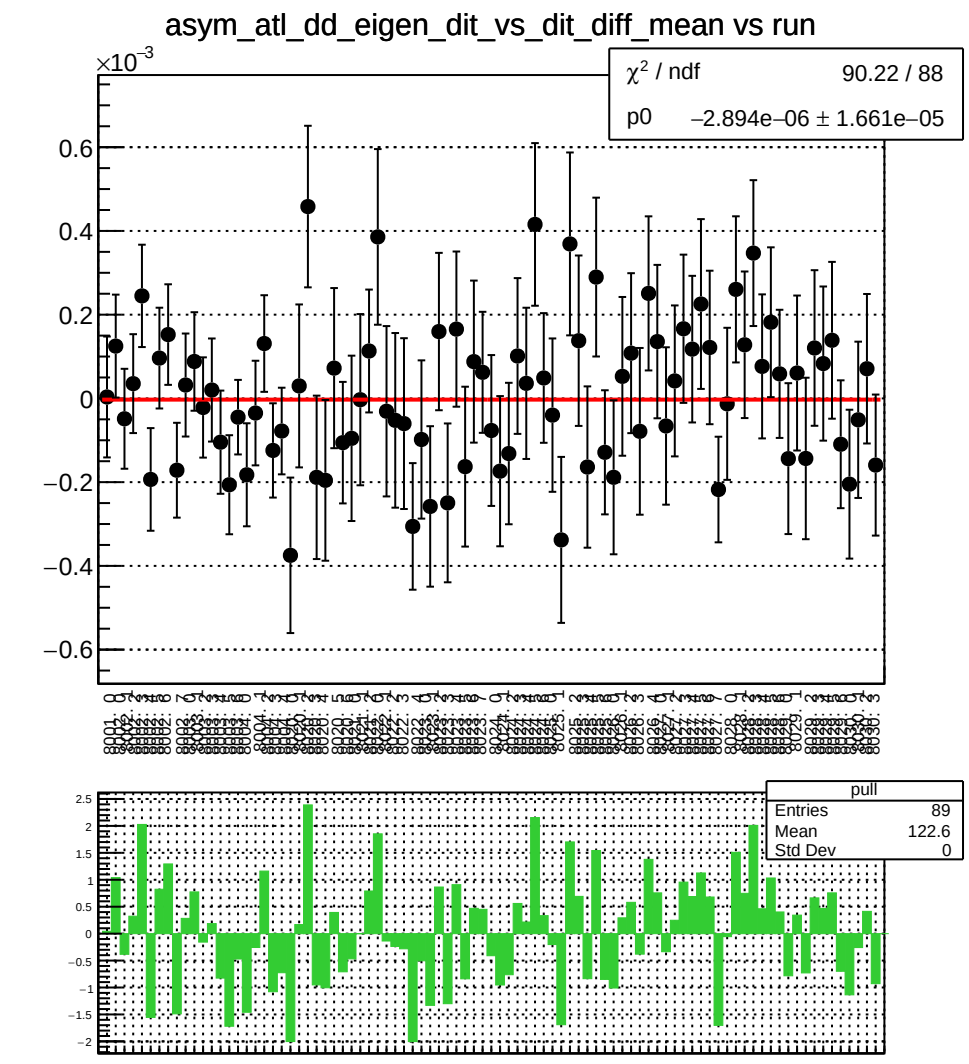

pull1D
Entries 89
Mean 0.01288
Std Dev 1.137

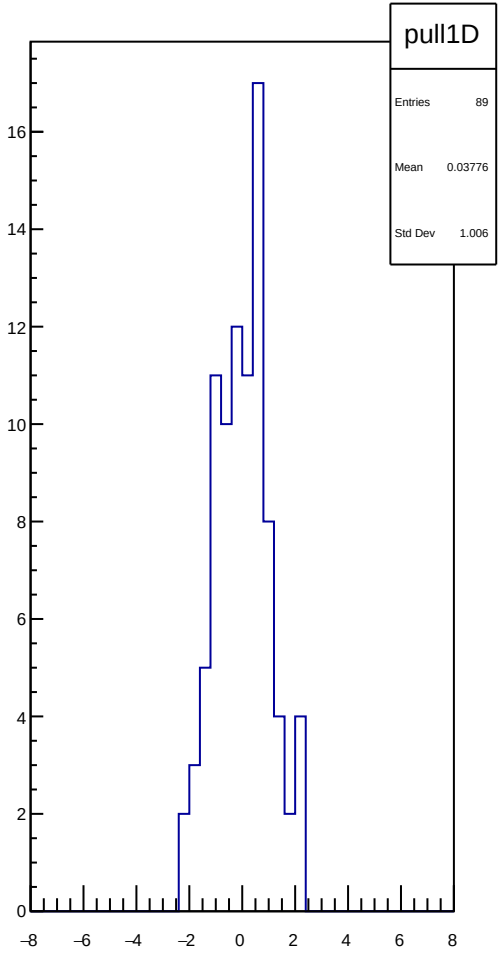

asym_atl_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.35e+04 / 88
p0 175 ± 0.1341
240
220
200
180
160
140
120

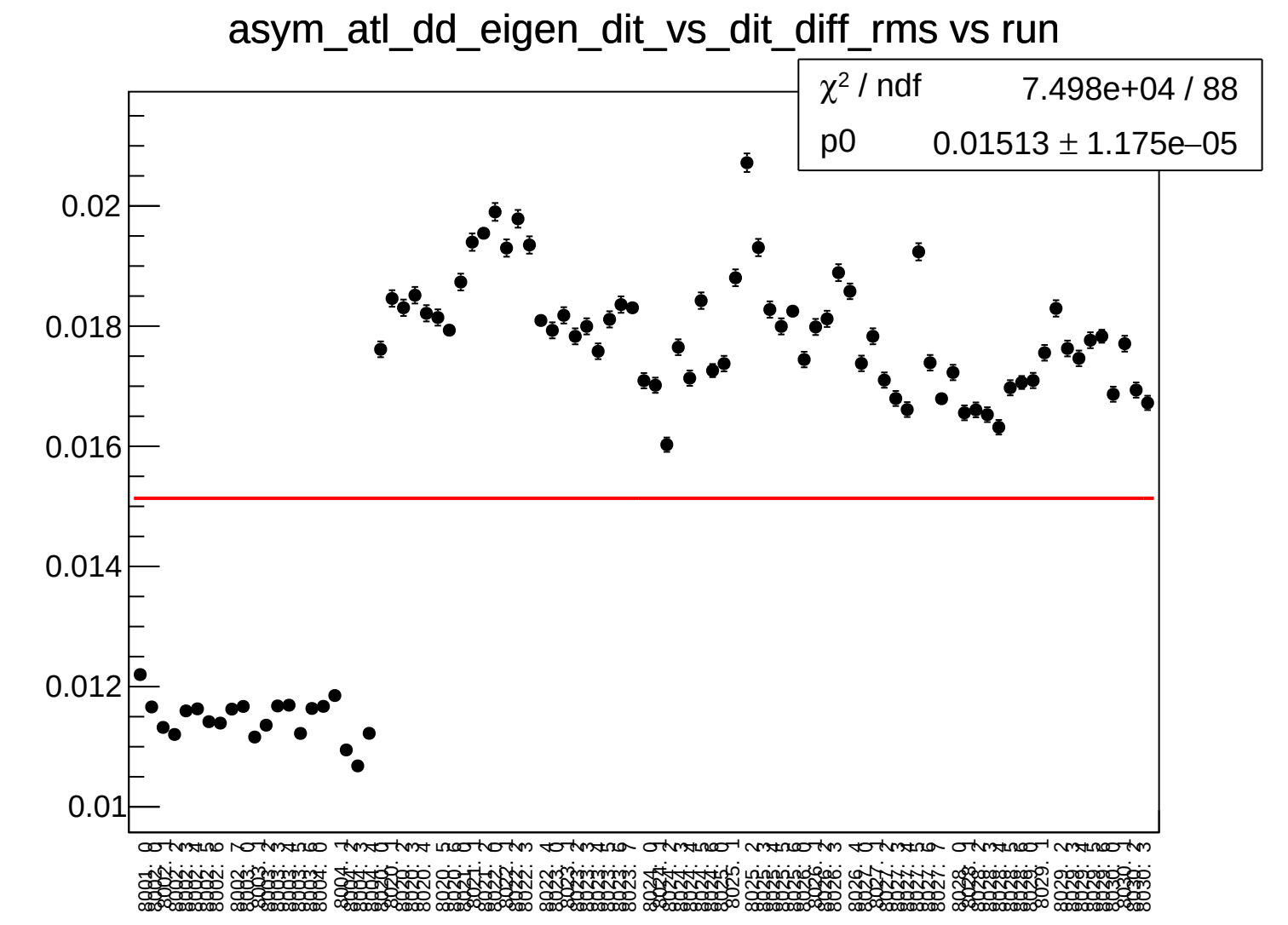

asym_atl_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 115.1 / 88
p0 −0.202 ± 0.1897
pull
Entries 89
Mean 198.4
Std Dev 0

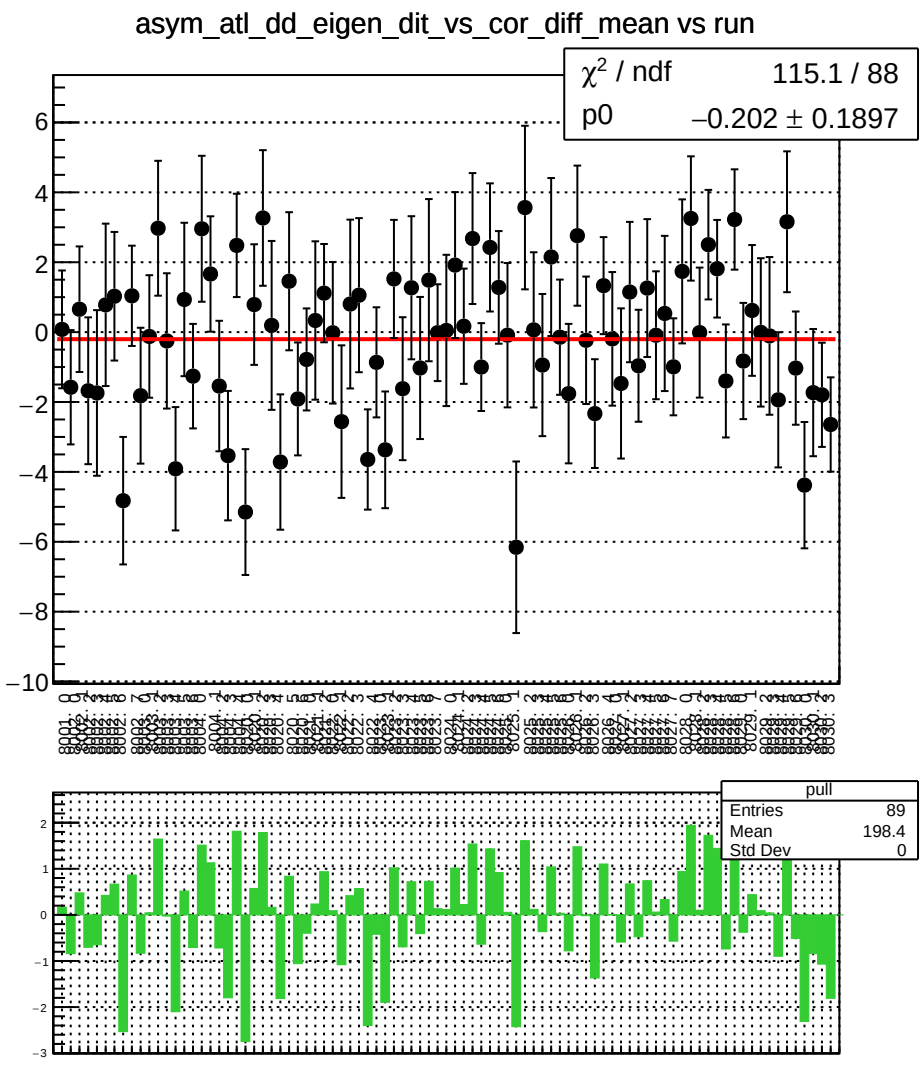

pull1D
Entries 89
Mean 0.01288
Std Dev 1.137

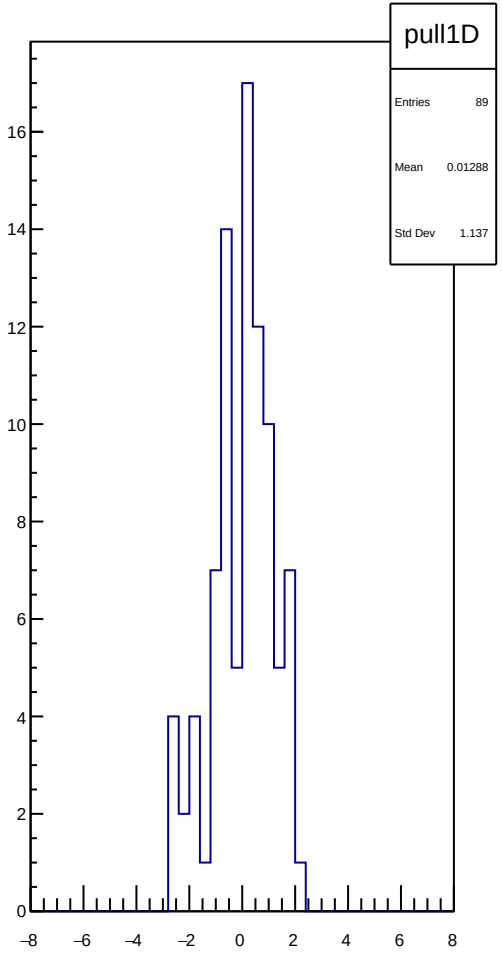

asym_atl_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.35e+04 / 88
p0 175 ± 0.1341
240
220
200
180
160
140
120

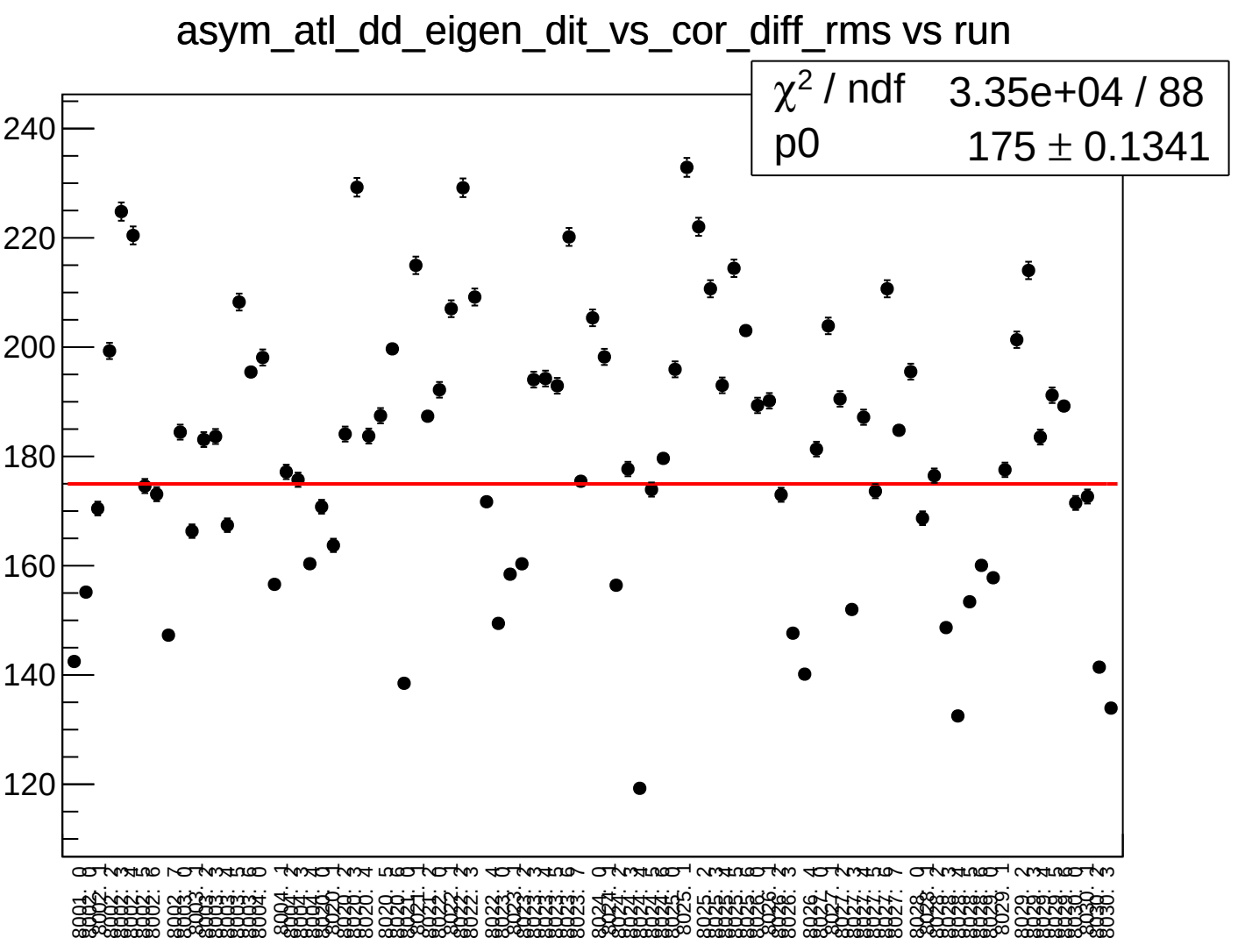

asym_atl_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.22 / 88
p0 −2.894e−06 ± 1.661e−05
pull
Entries 89
Mean 122.6
Std Dev 0

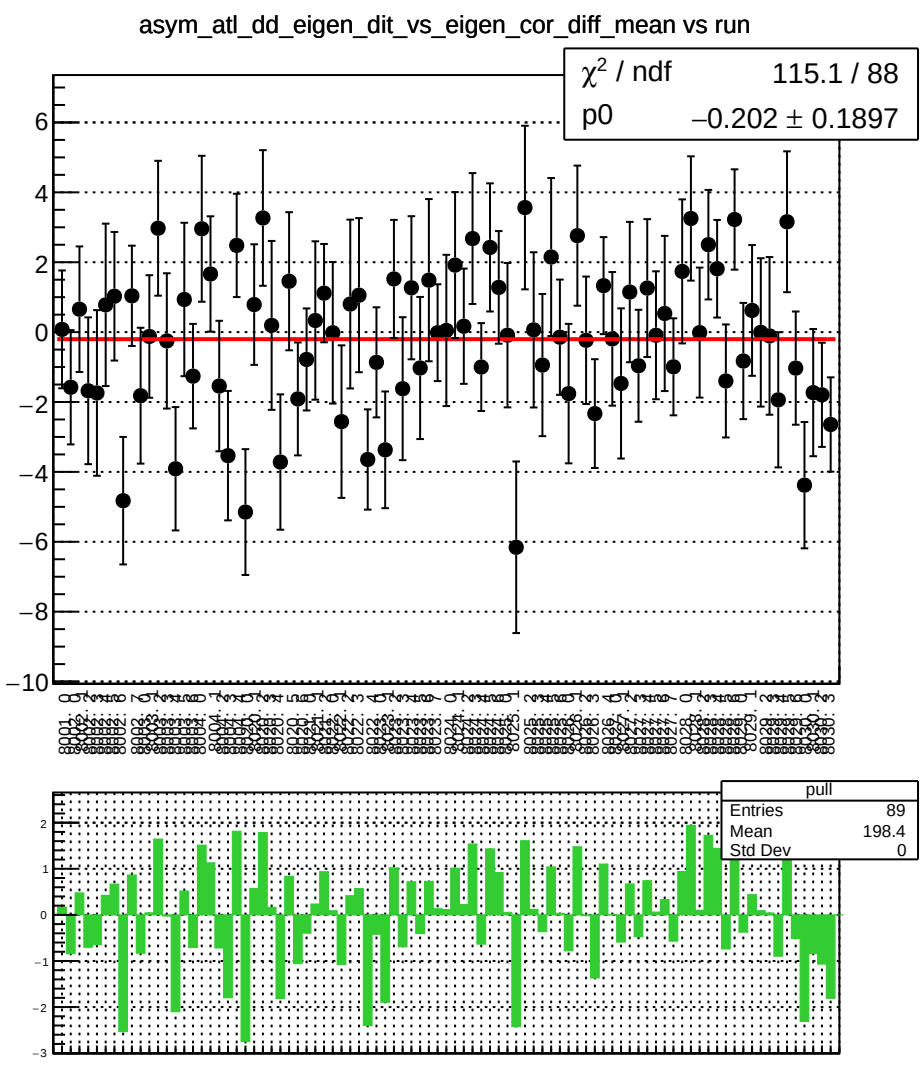

pull1D
Entries 89
Mean 0.03776
Std Dev 1.006

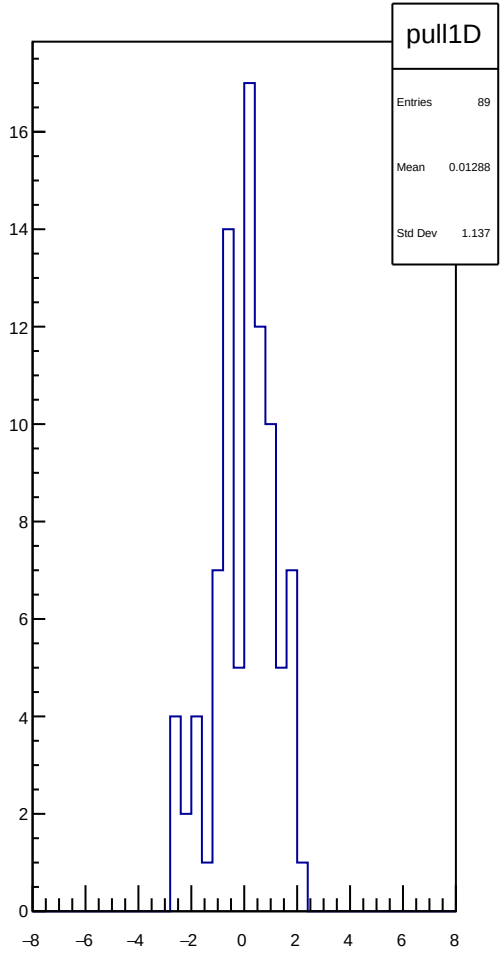

asym_atl_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.498e+04 / 88
p0 0.01513 ± 1.175e−05
0.02
0.018
0.016
0.014
0.012
0.01

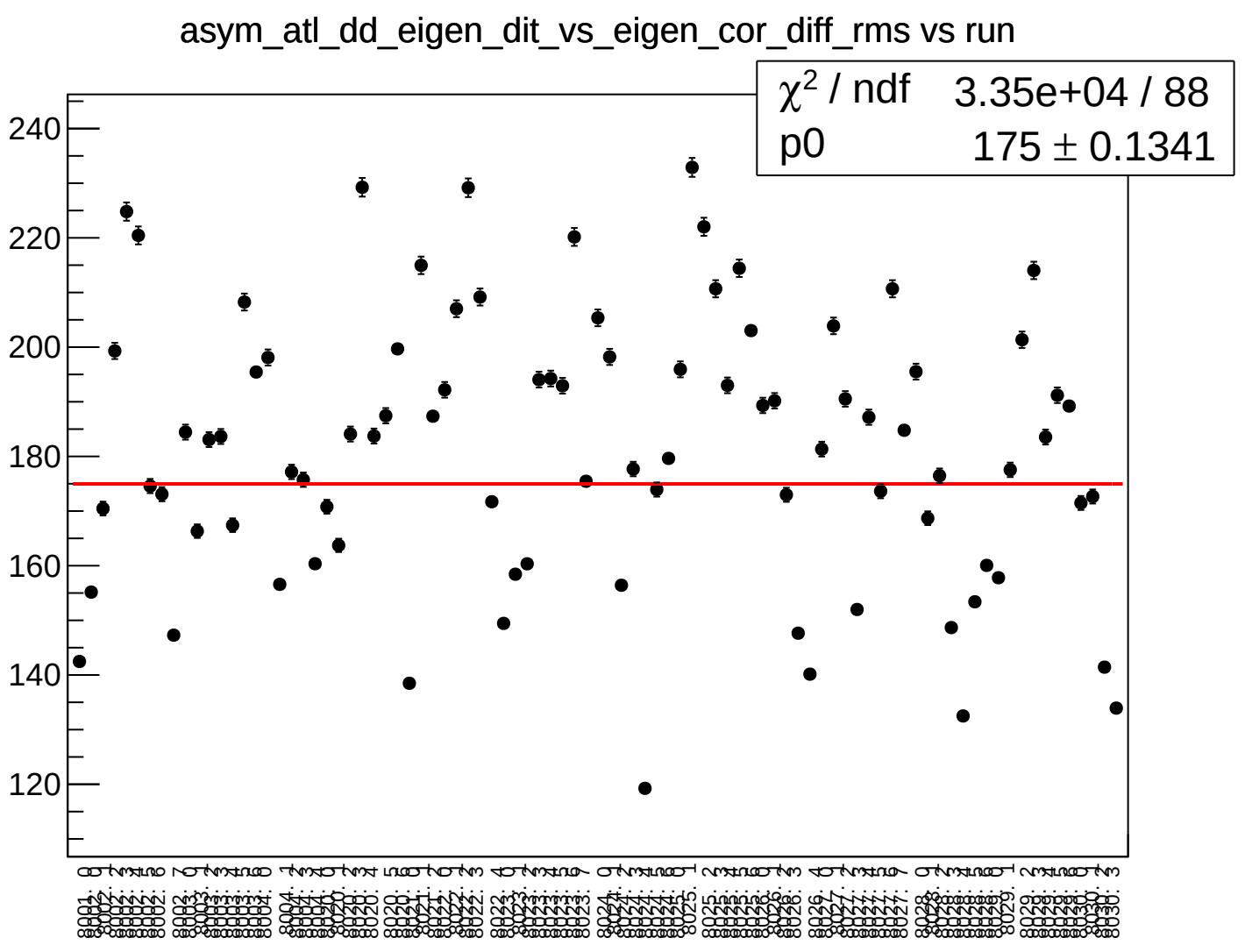

asym_atl_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 115.1 / 88
p0 −0.202 ± 0.1897
pull
Entries 89
Mean 198.4
Std Dev 0

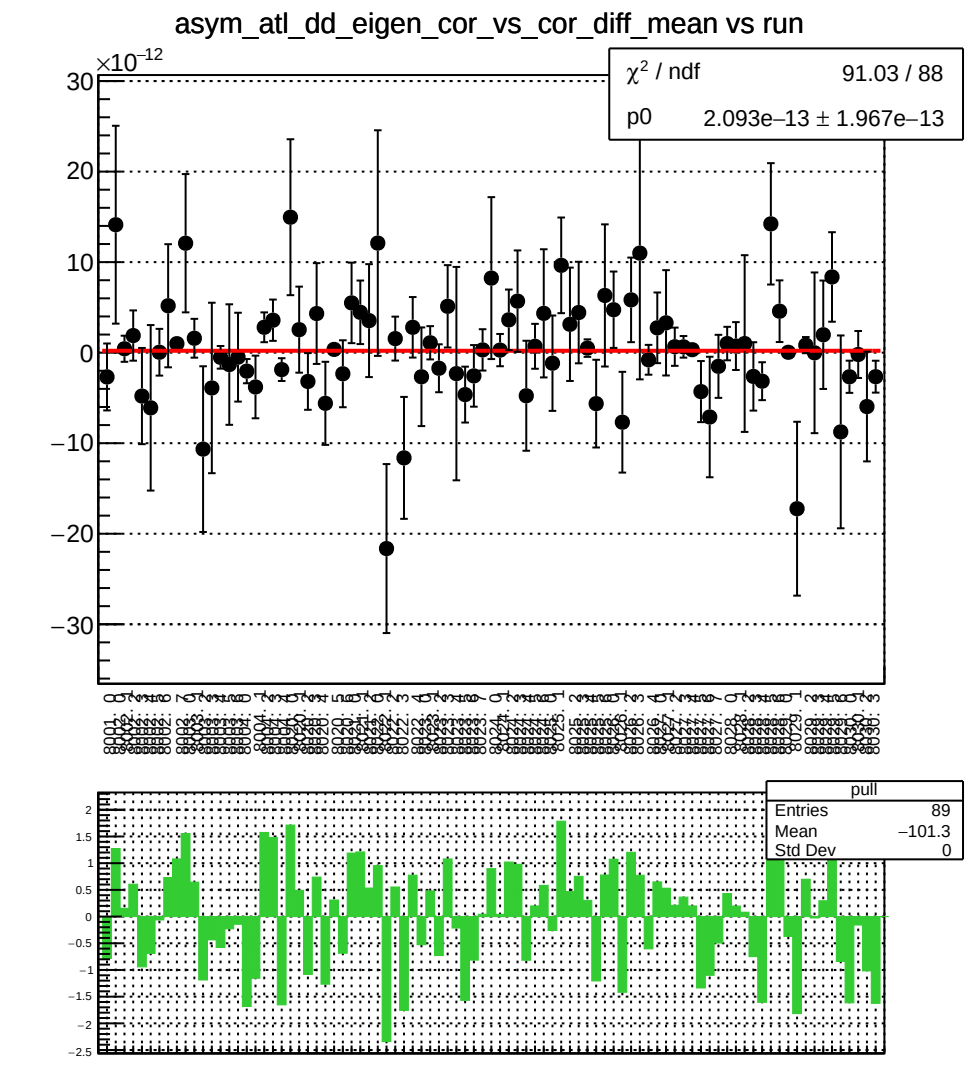

pull1D
Entries 89
Mean 0.01288
Std Dev 1.137

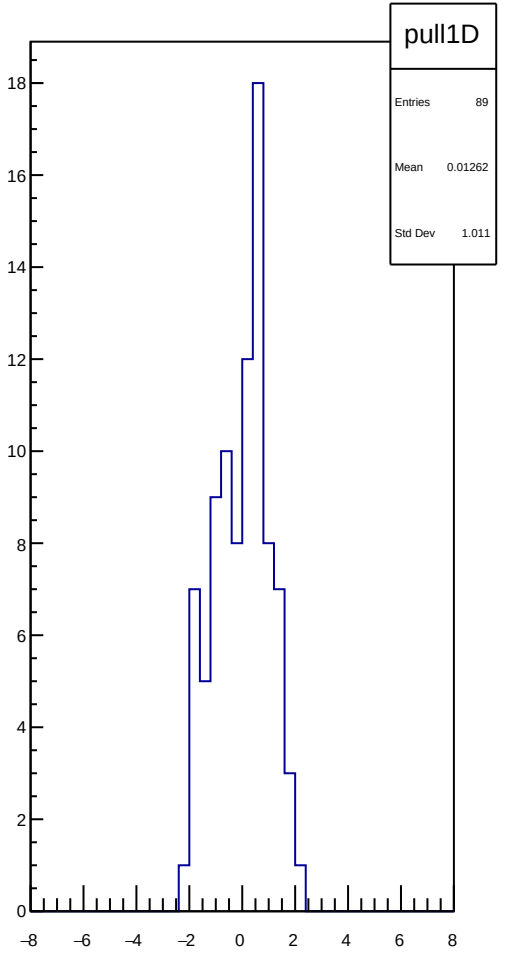

asym_atl_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.35e+04 / 88
p0 175 ± 0.1341
240
220
200
180
160
140
120

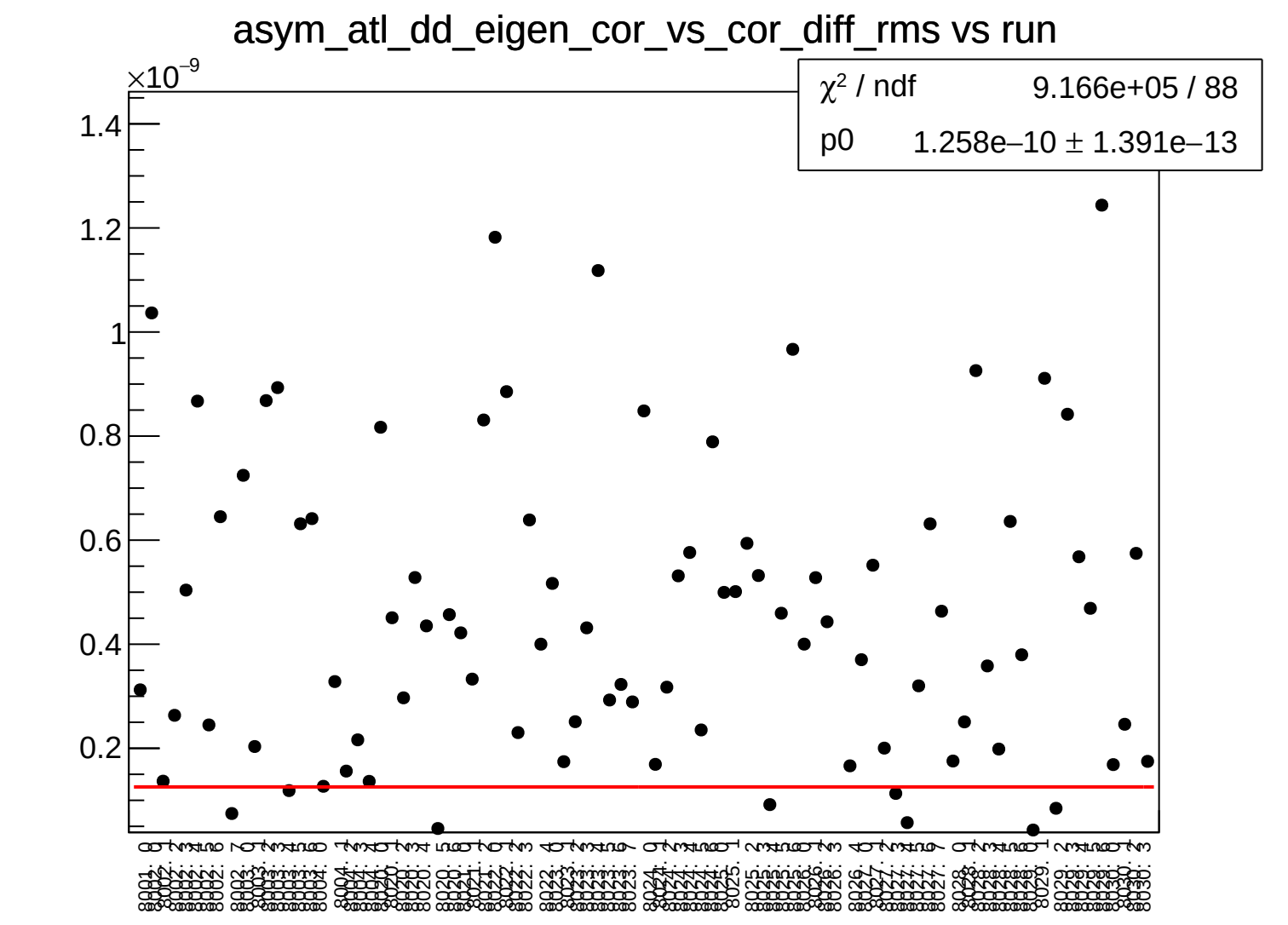

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 115.1 / 88
p0 −0.202 ± 0.1897
pull
Entries 89
Mean 198.4
Std Dev 0

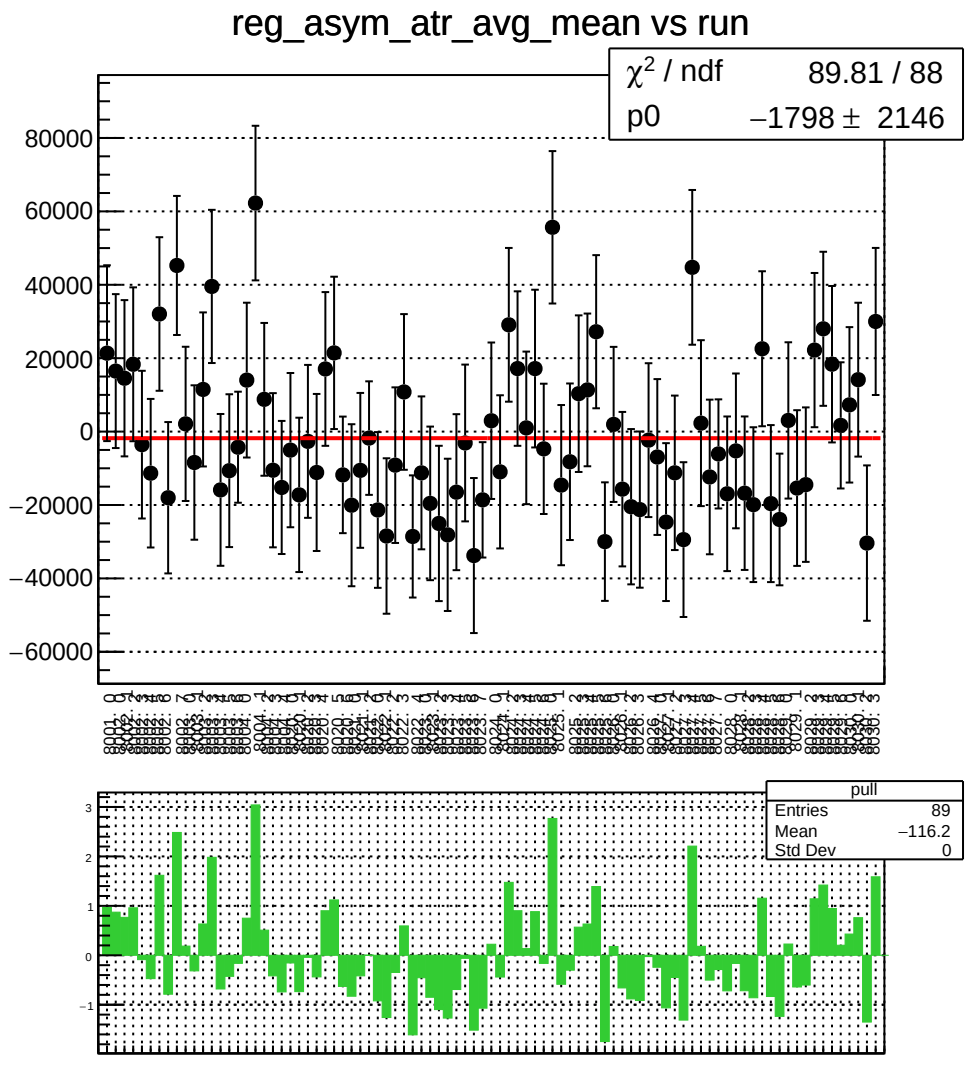

pull1D
Entries 89
Mean 0.01288
Std Dev 1.137

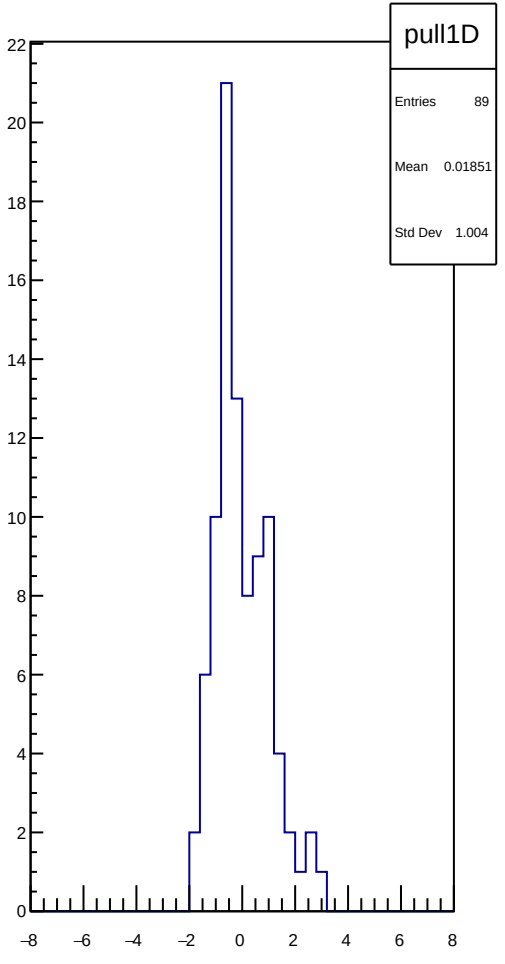

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.35e+04 / 88
p0 175 ± 0.1341
240
220
200
180
160
140
120

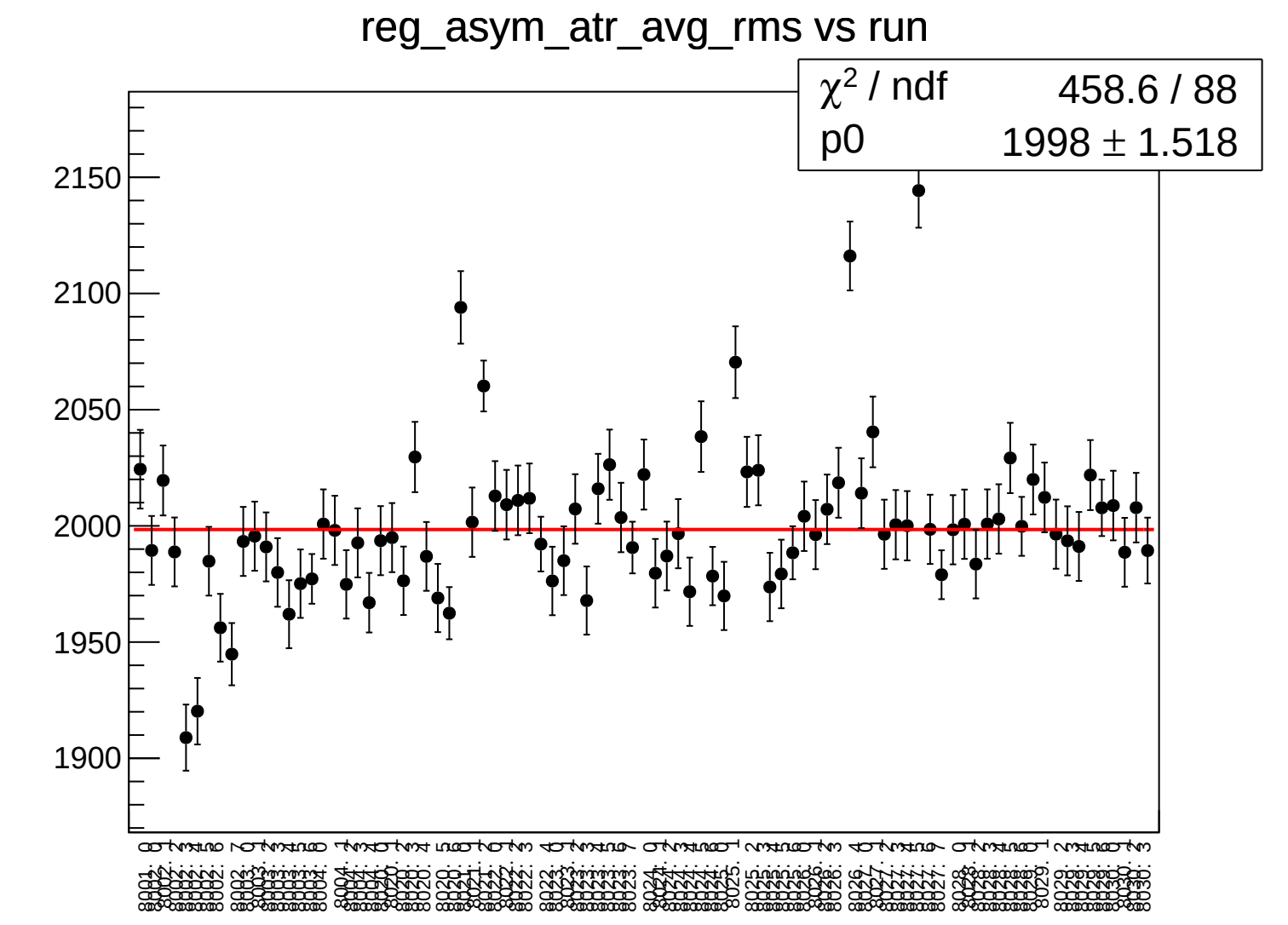

asym_atl_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.03 / 88
p0 2.093e−13 ± 1.967e−13
pull
Entries 89
Mean −101.3
Std Dev 0

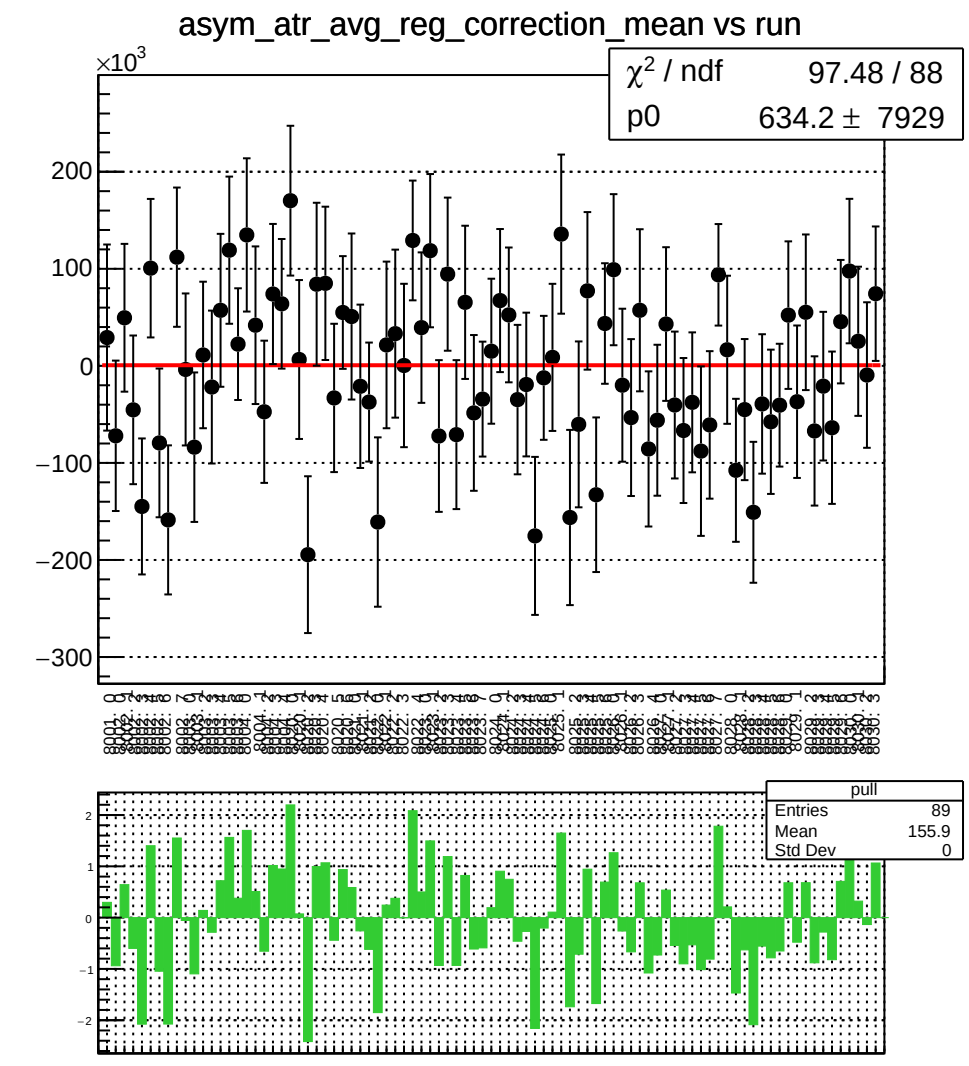

pull1D
Entries 89
Mean 0.01262
Std Dev 1.011

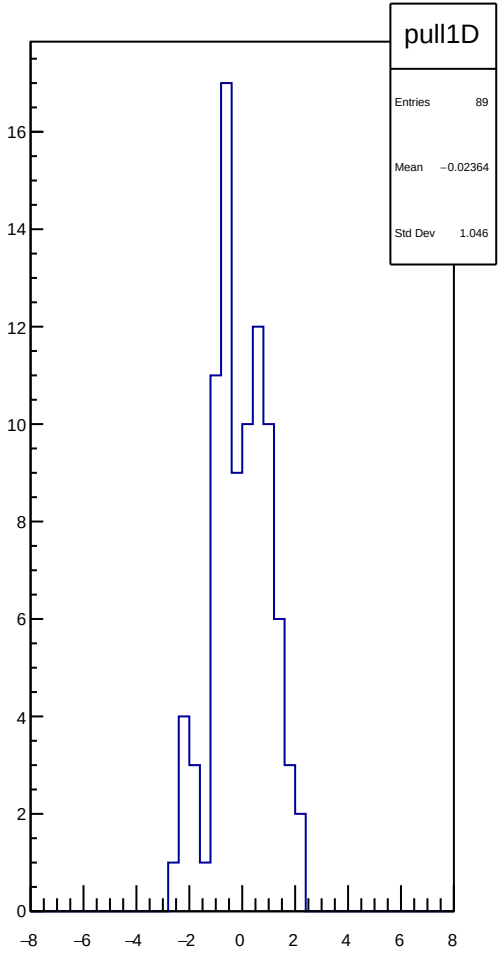

asym_atl_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.166e+05 / 88
p0 1.258e−10 ± 1.391e−13
1.4
1.2
1
0.8
0.6
0.4
0.2

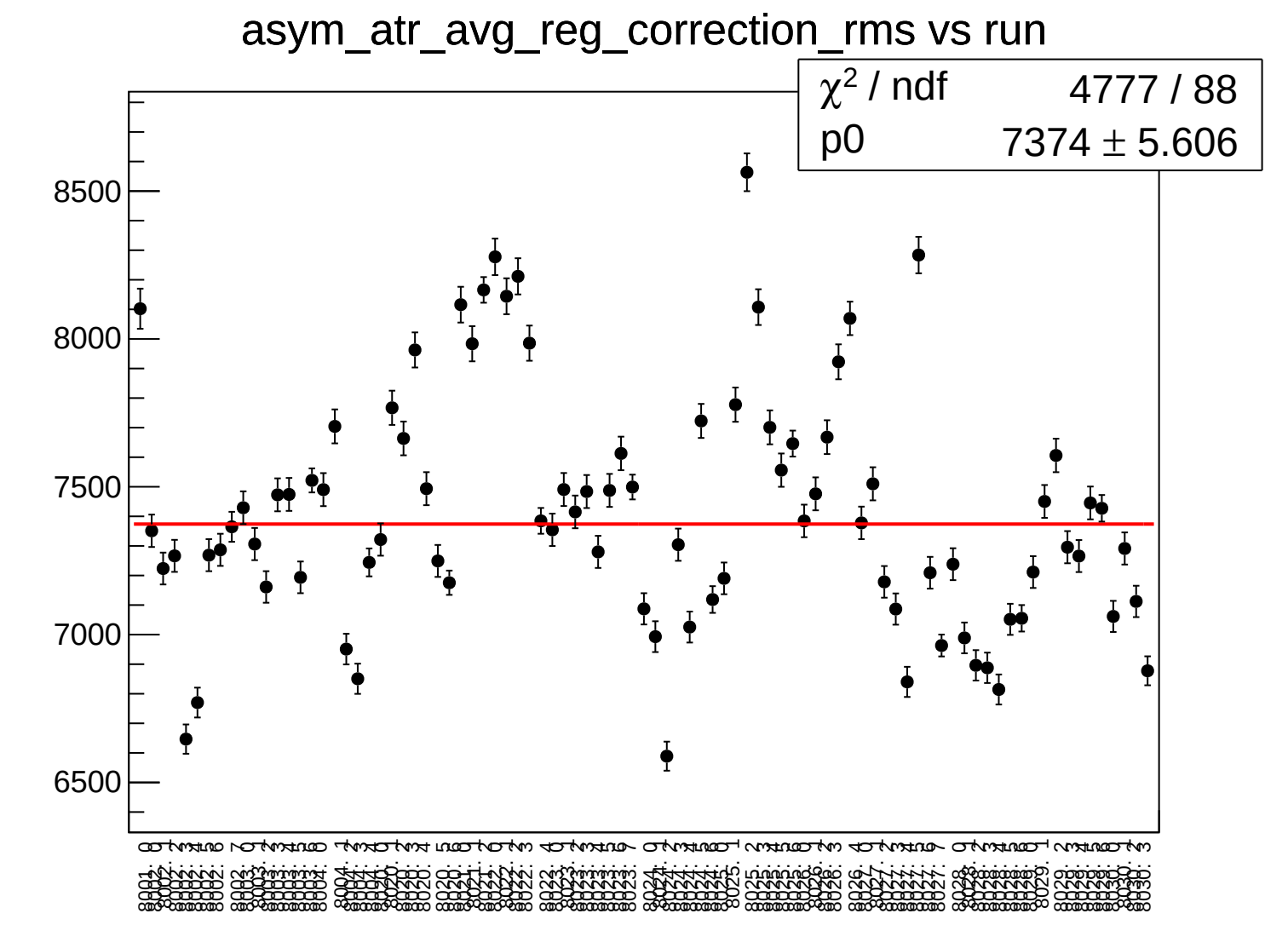

reg_asym_atr_avg_mean vs run
χ² / ndf 89.81 / 88
p0 −1798 ± 2146
pull
Entries 89
Mean −116.2
Std Dev 0

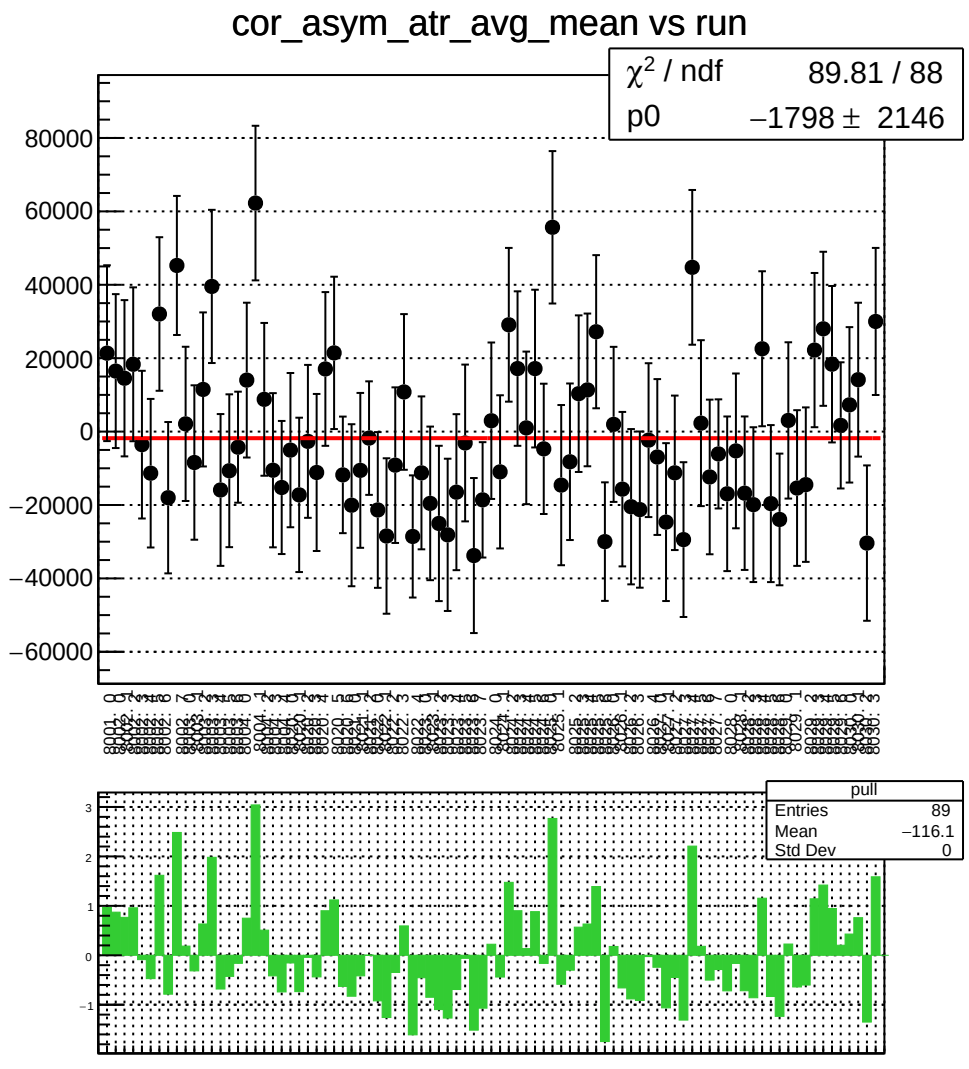

pull1D
Entries 89
Mean 0.01851
Std Dev 1.004

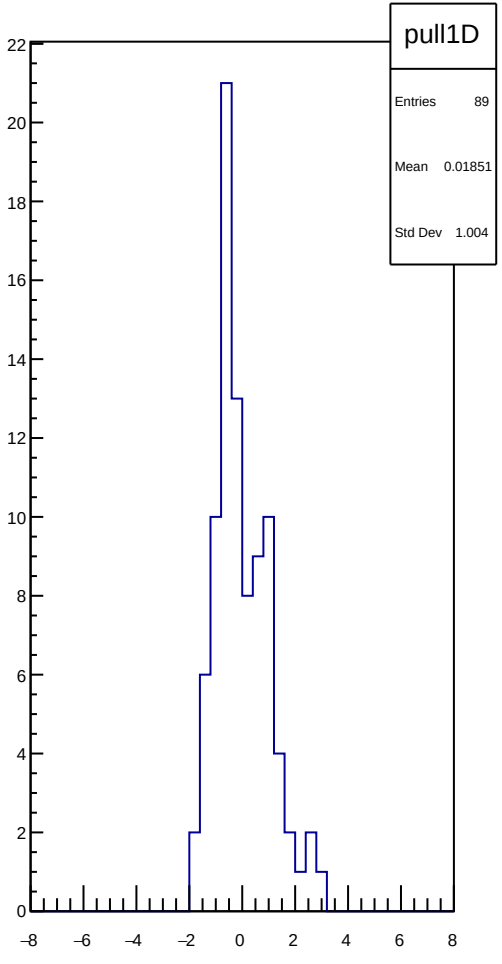

reg_asym_atr_avg_rms vs run
χ^2 / ndf 458.6 / 88
p0 1998 ± 1.518
2150
2100
2050
2000
1950
1900

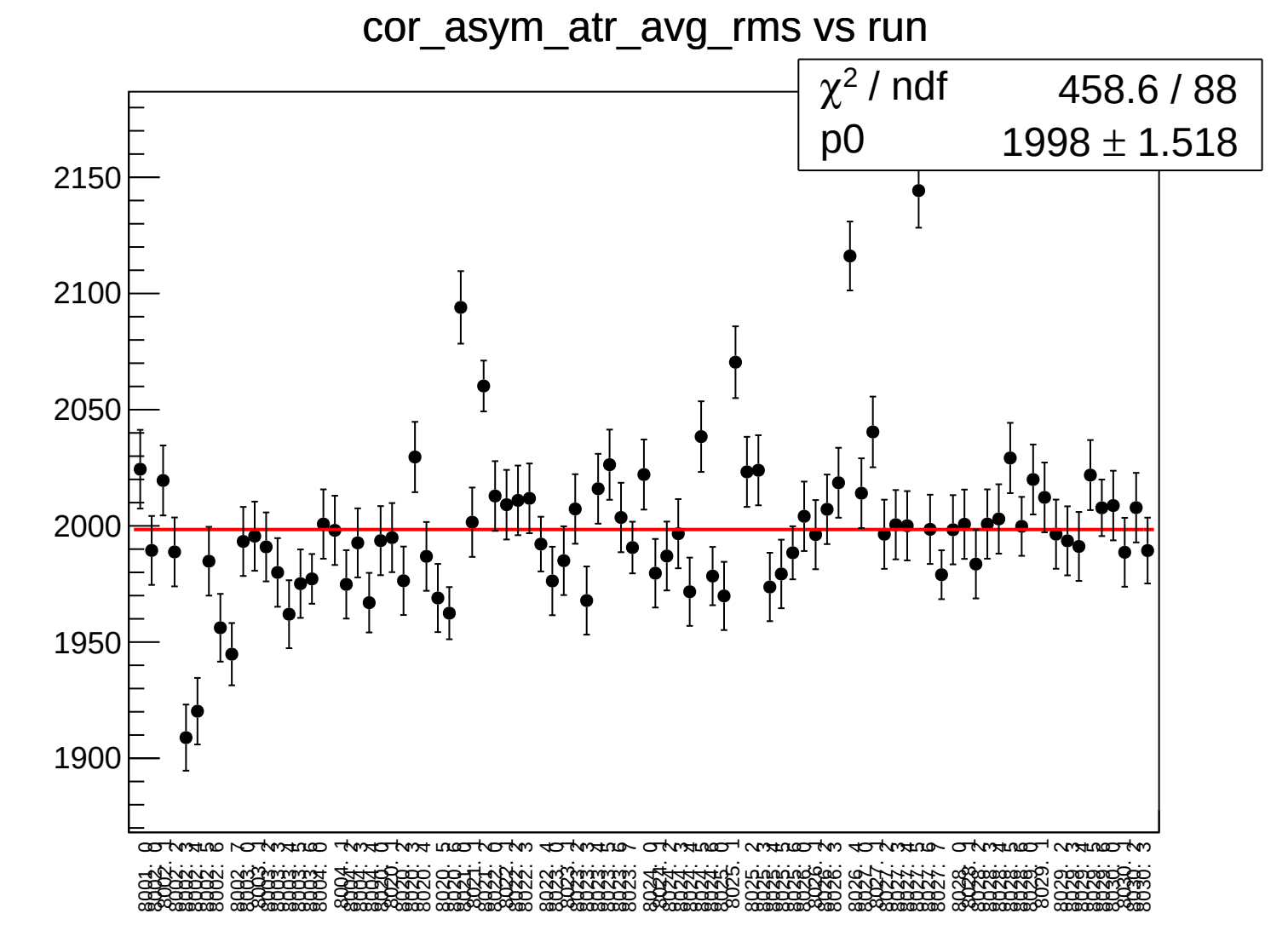

asym_atr_avg_reg_correction_mean vs run
×10^3
χ² / ndf 97.48 / 88
p0 634.2 ± 7929
200
100
0
−100
−200
−300
pull
Entries 89
Mean 155.9
Std Dev 0
2
1
0
−1
−2

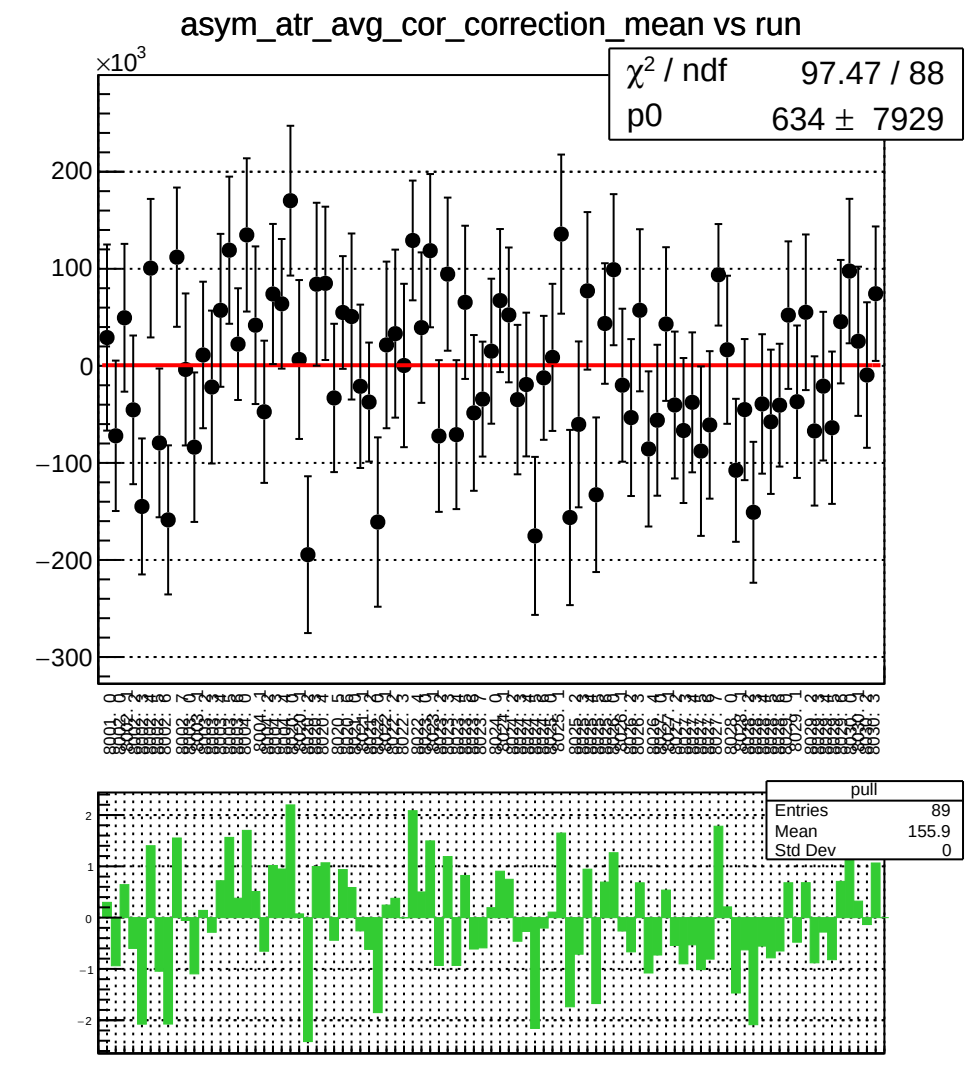

pull1D
Entries 89
Mean −0.02364
Std Dev 1.046
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

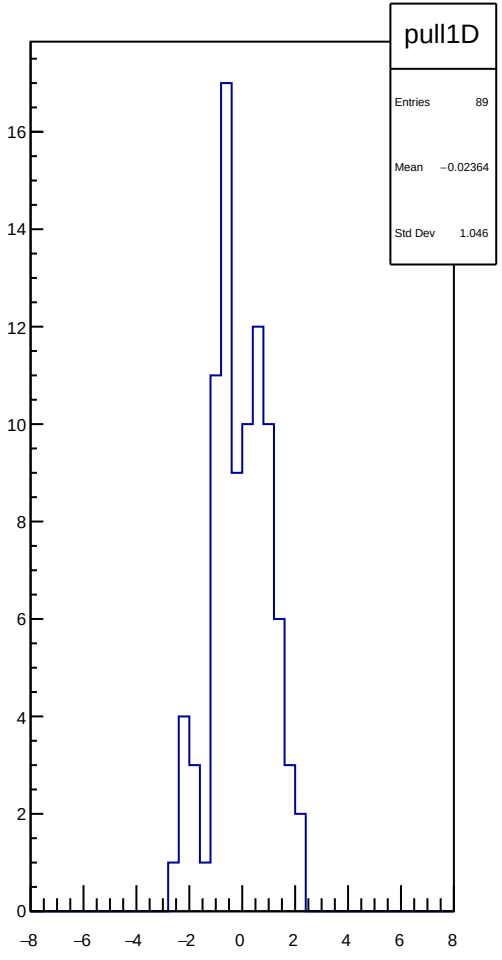

asym_atr_avg_reg_correction_rms vs run
χ² / ndf 4777 / 88
p0 7374 ± 5.606
8500
8000
7500
7000
6500

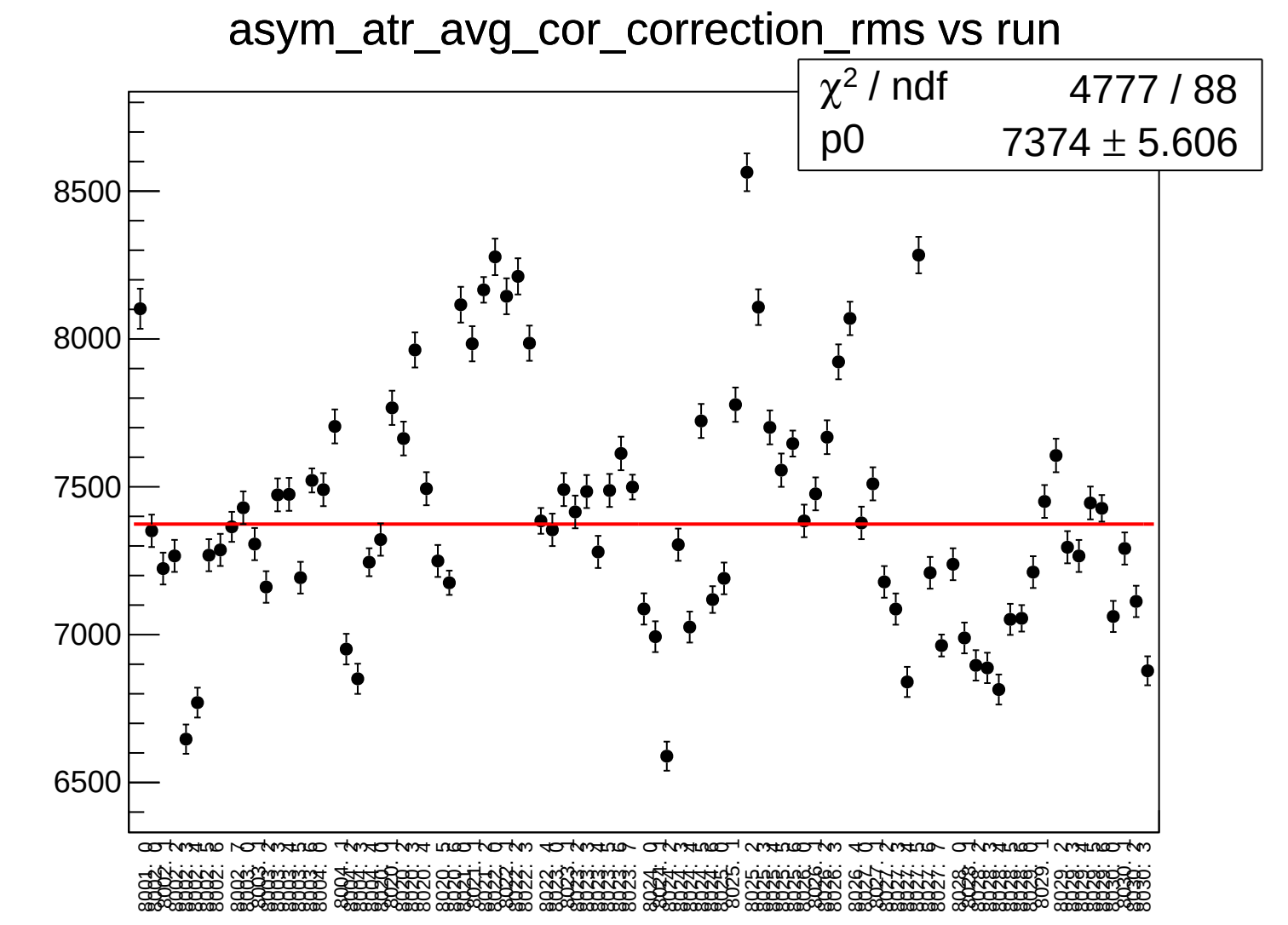

cor_asym_atr_avg_mean vs run
χ² / ndf 89.81 / 88
p0 −1798 ± 2146
pull
Entries 89
Mean −116.1
Std Dev 0

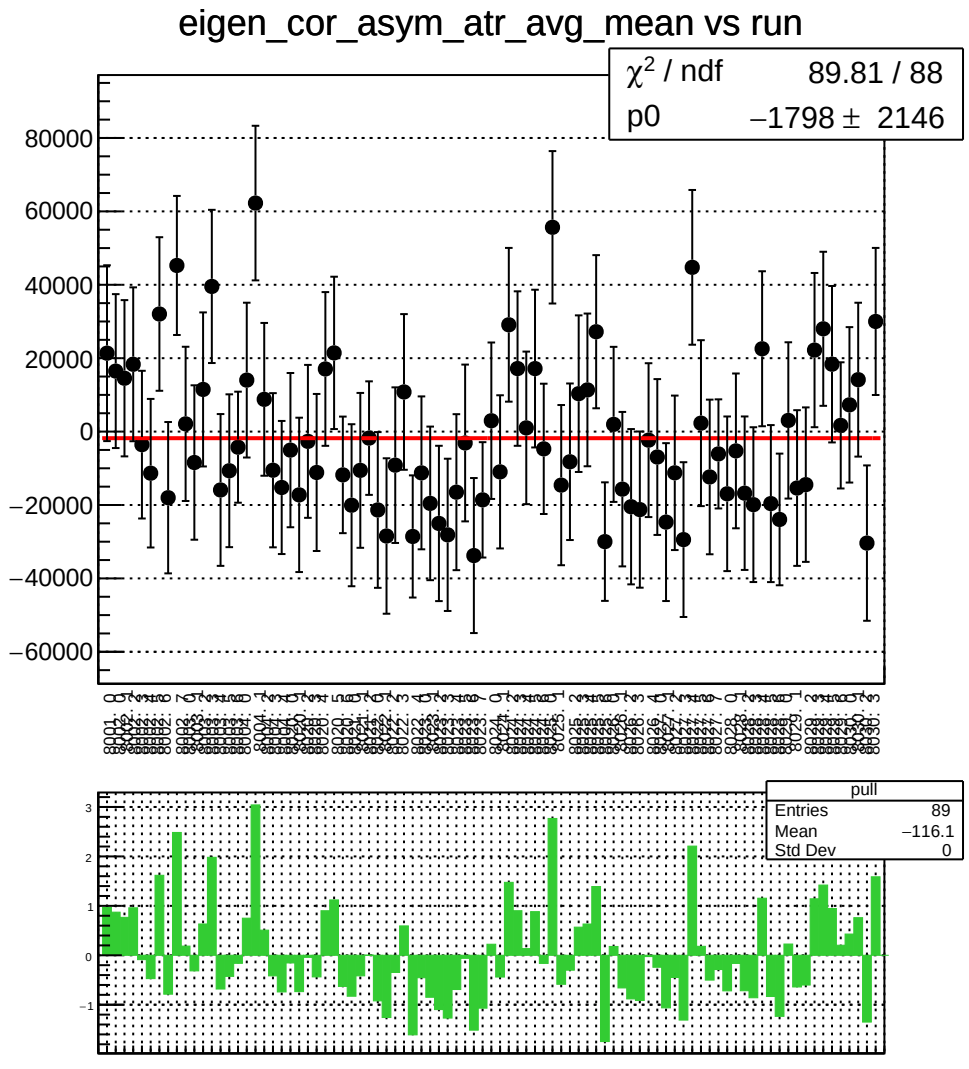

pull1D
Entries 89
Mean 0.01851
Std Dev 1.004

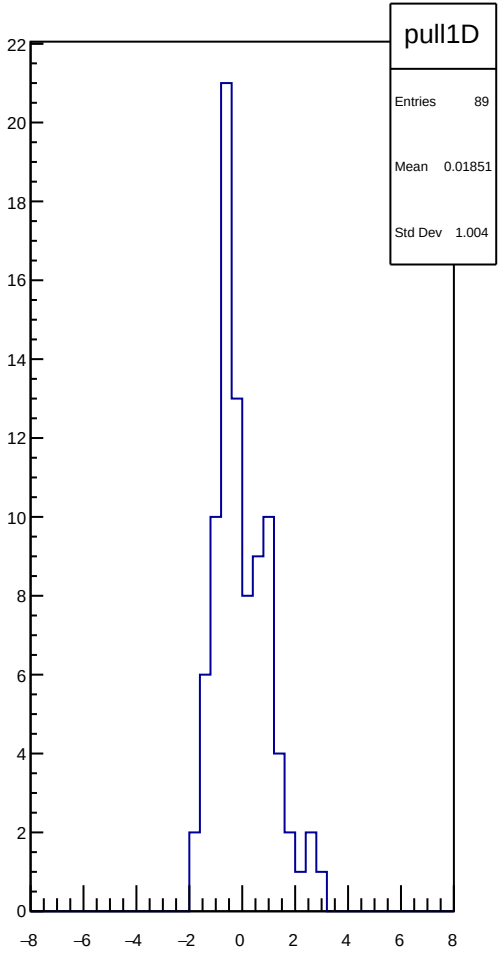

cor_asym_atr_avg_rms vs run
χ² / ndf 458.6 / 88
p0 1998 ± 1.518
2150
2100
2050
2000
1950
1900

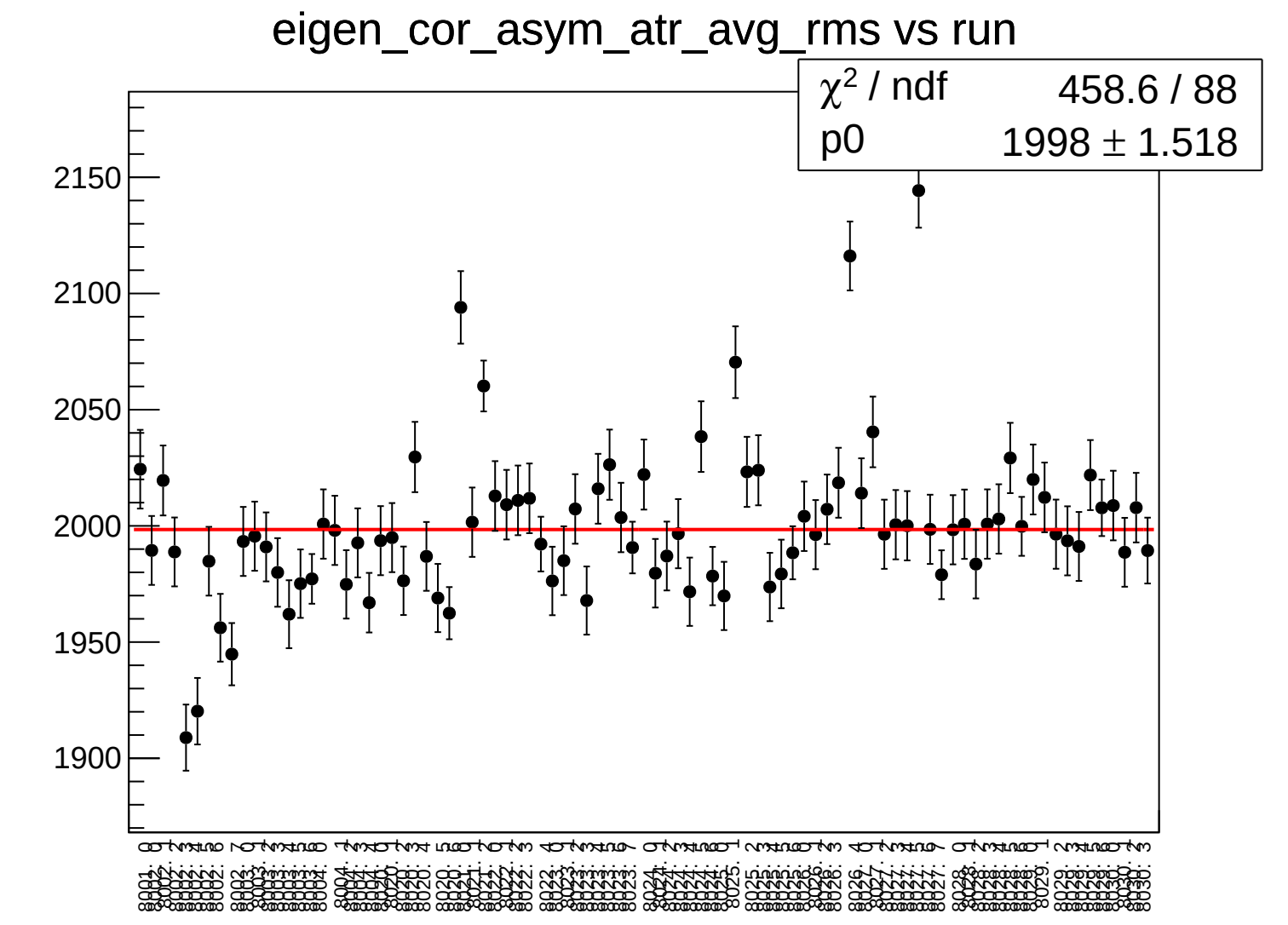

asym_atr_avg_cor_correction_mean vs run
×10^3
χ² / ndf 97.47 / 88
p0 634 ± 7929
200
100
0
−100
−200
−300
pull
Entries 89
Mean 155.9
Std Dev 0
2
1
0
−1
−2

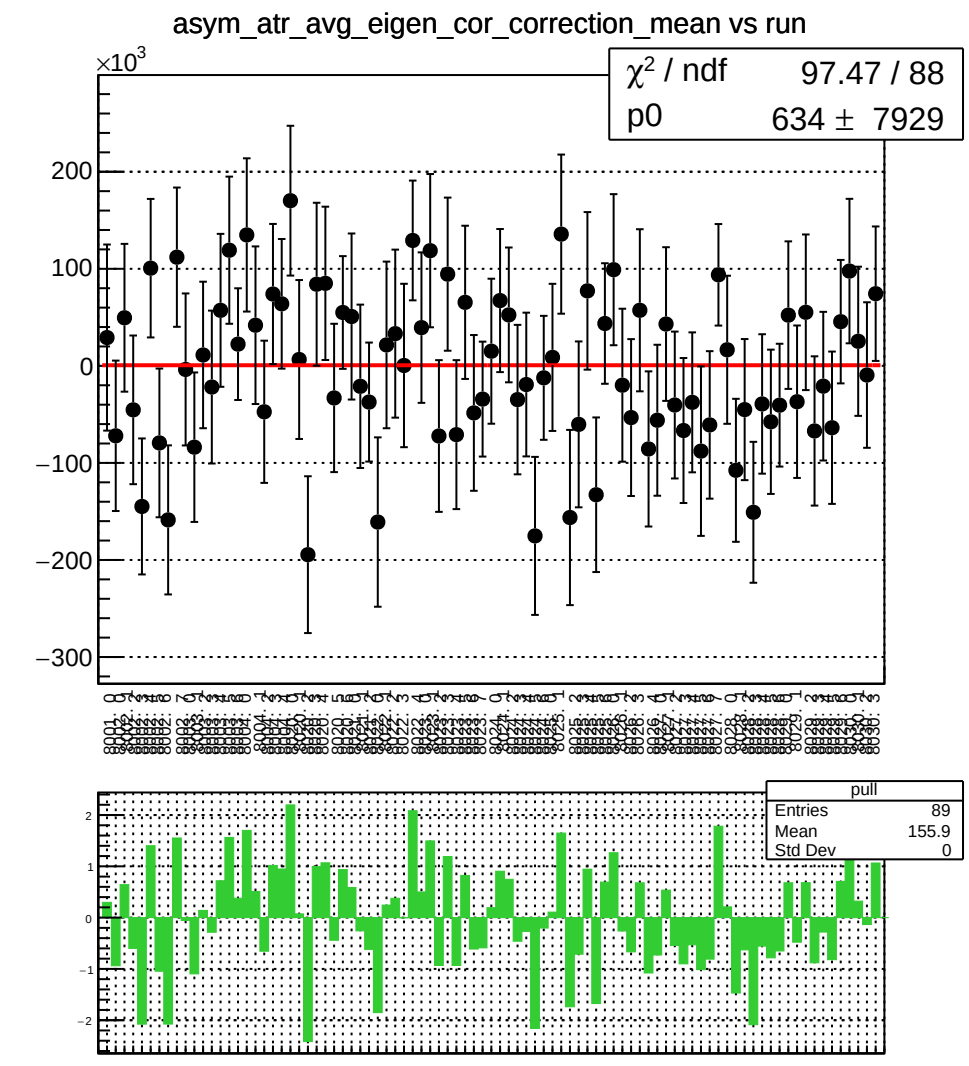

pull1D
Entries 89
Mean −0.02364
Std Dev 1.046
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

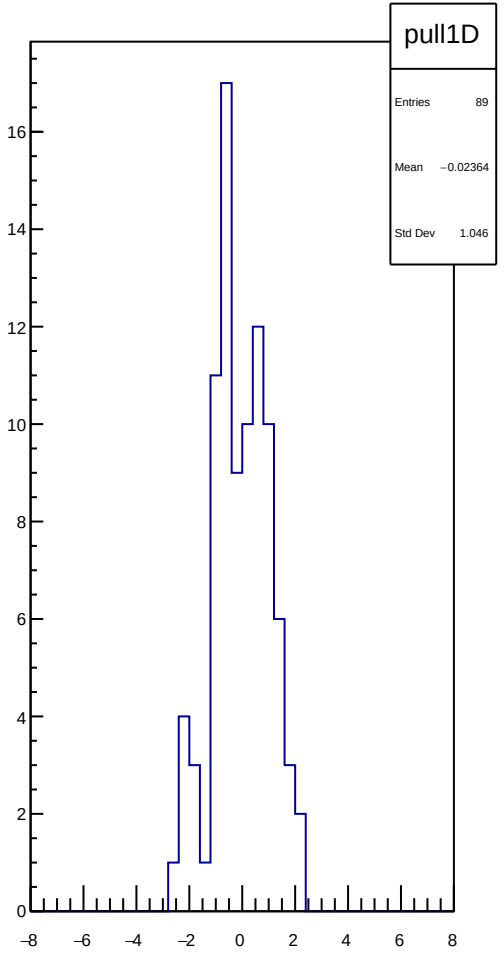

asym_atr_avg_cor_correction_rms vs run
χ² / ndf 4777 / 88
p0 7374 ± 5.606
8500
8000
7500
7000
6500

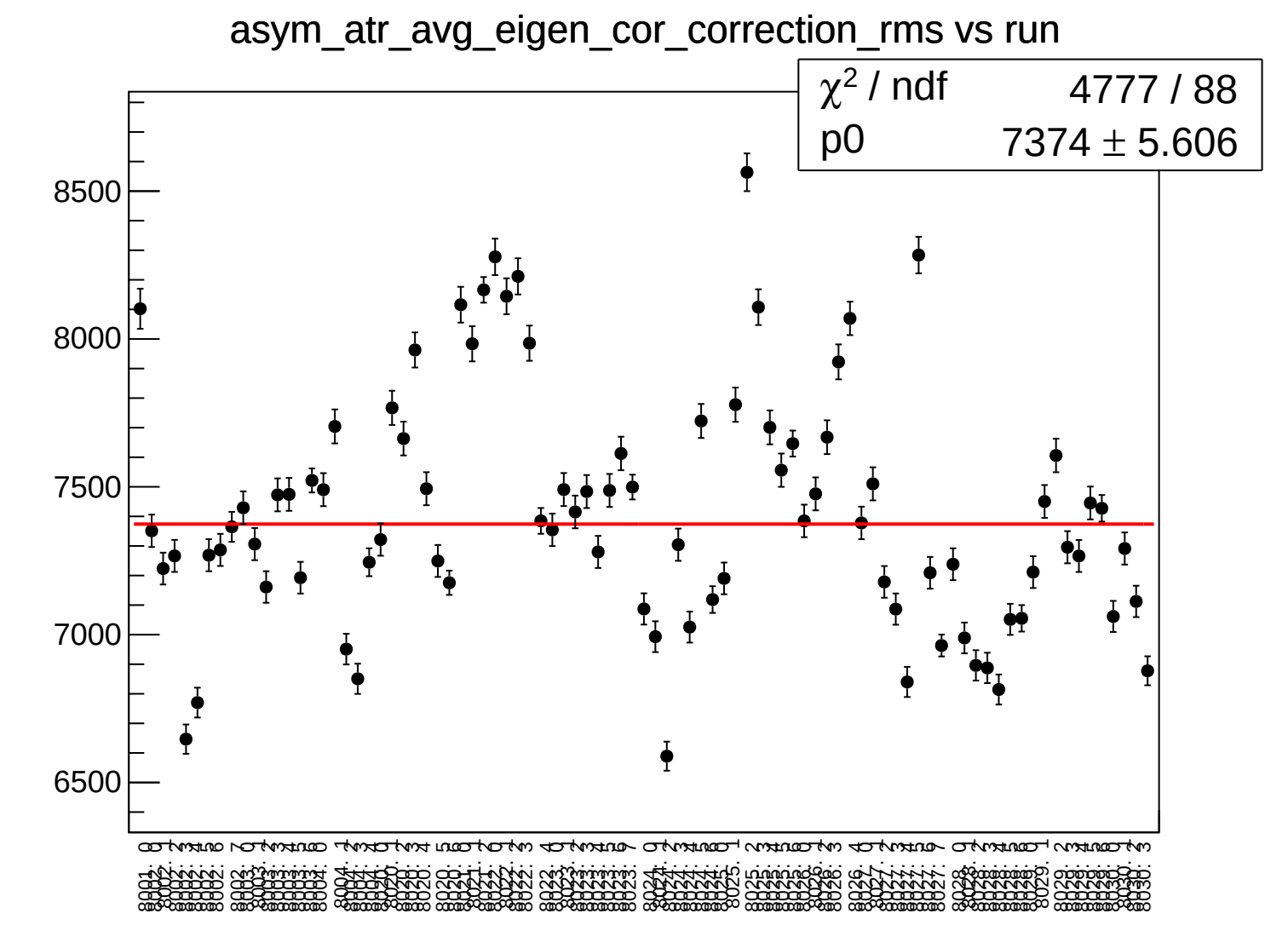

eigen_cor_asym_atr_avg_mean vs run
χ² / ndf 89.81 / 88
p0 −1798 ± 2146
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −116.1
Std Dev 0
3
2
1
0
−1

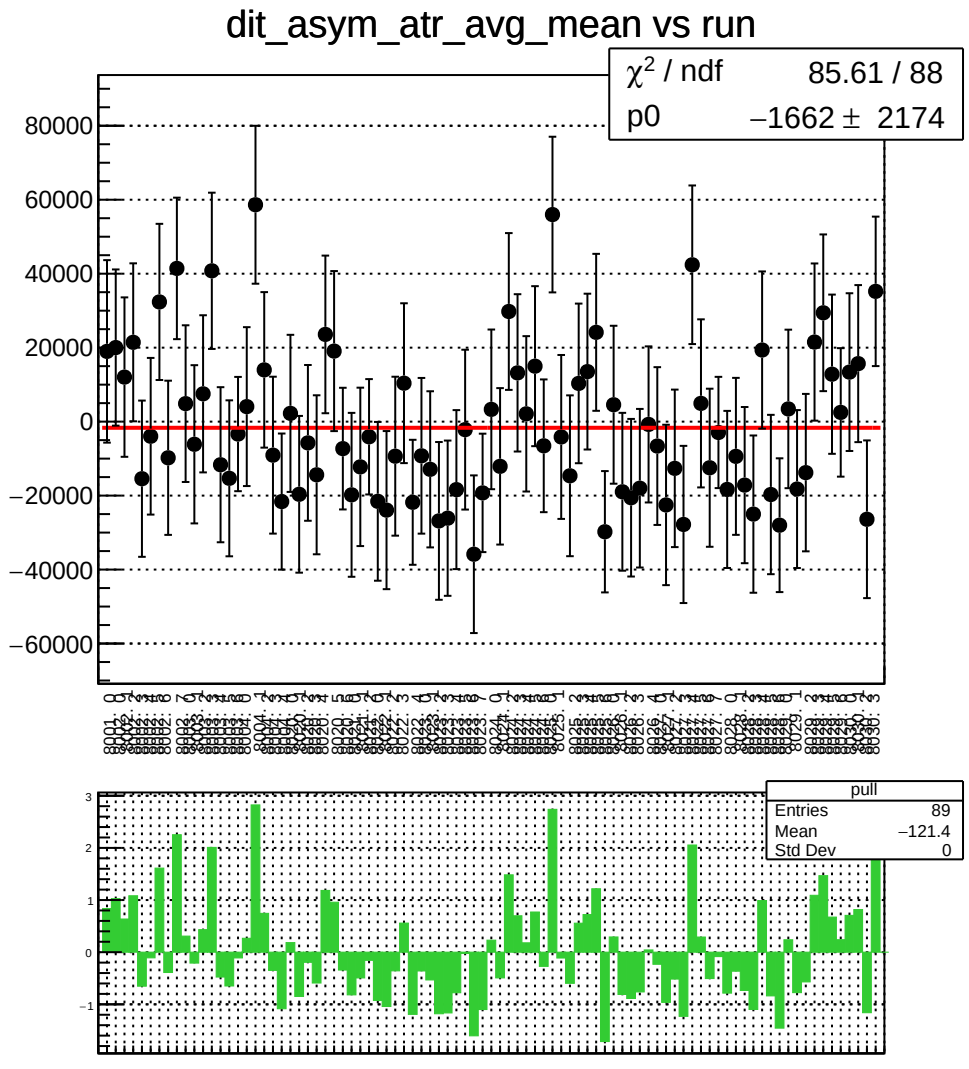

pull1D
Entries 89
Mean 0.01851
Std Dev 1.004
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

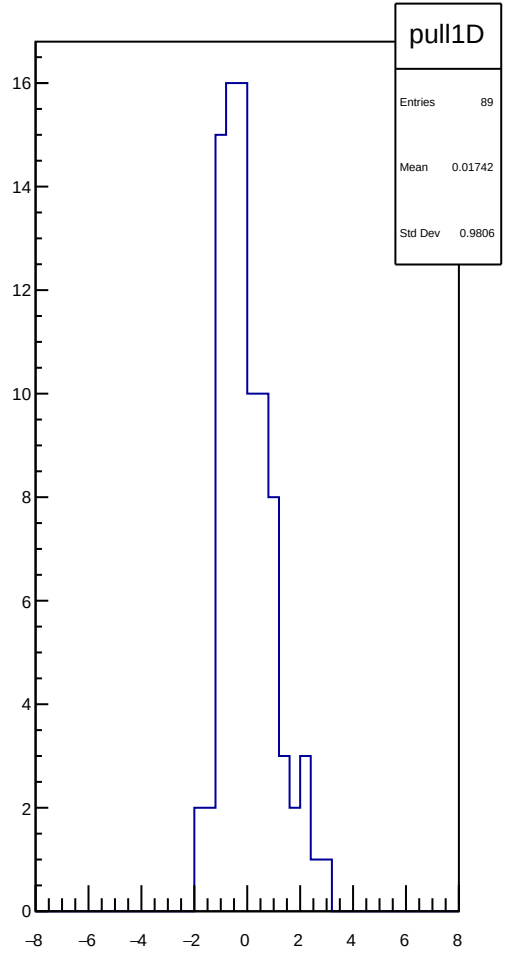

eigen_cor_asym_atr_avg_rms vs run
χ^2 / ndf 458.6 / 88
p0 1998 ± 1.518
2150
2100
2050
2000
1950
1900

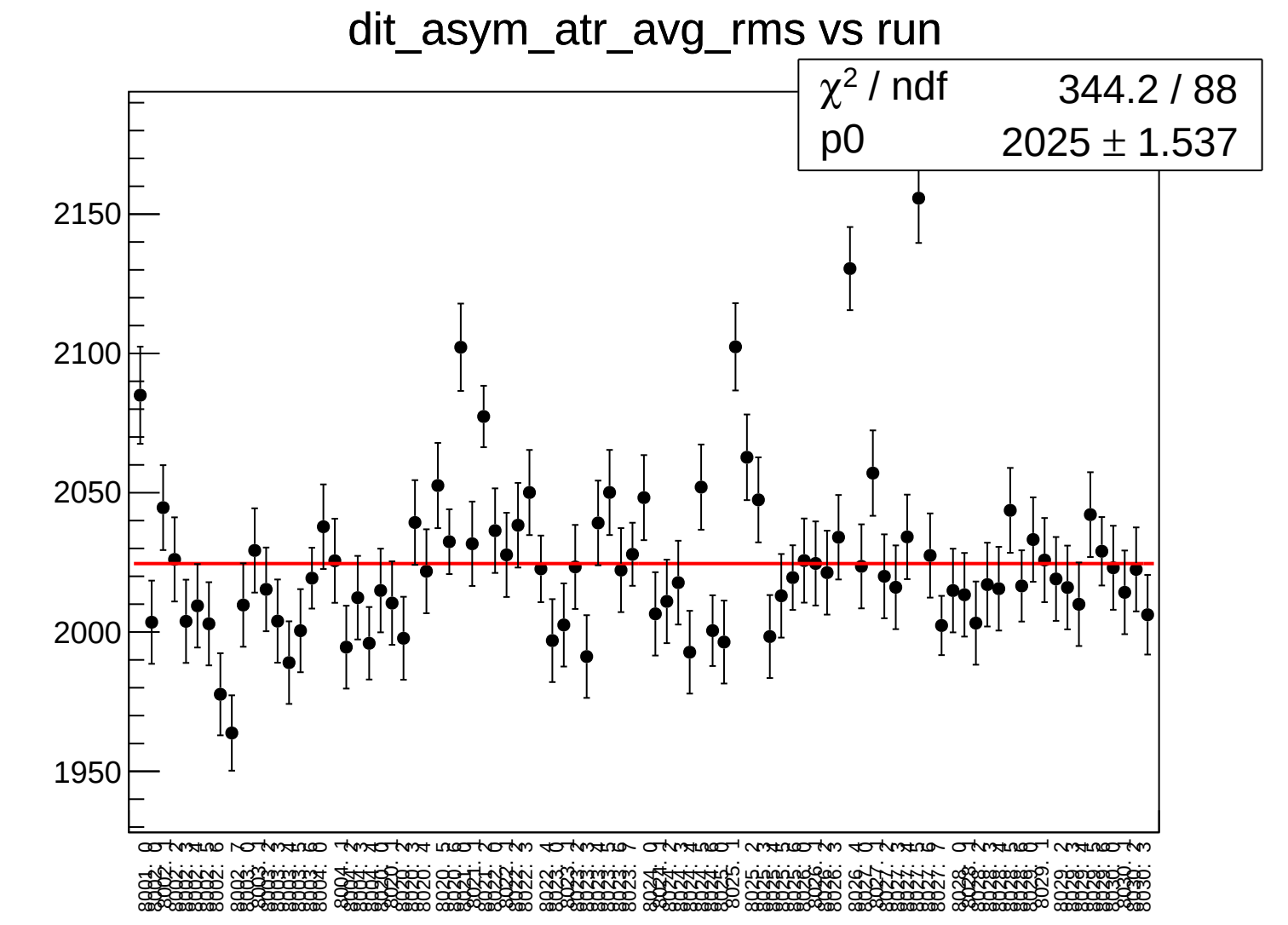

asym_atr_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 97.47 / 88
p0 634 ± 7929
200
100
0
−100
−200
−300
pull
Entries 89
Mean 155.9
Std Dev 0
2
1
0
−1
−2

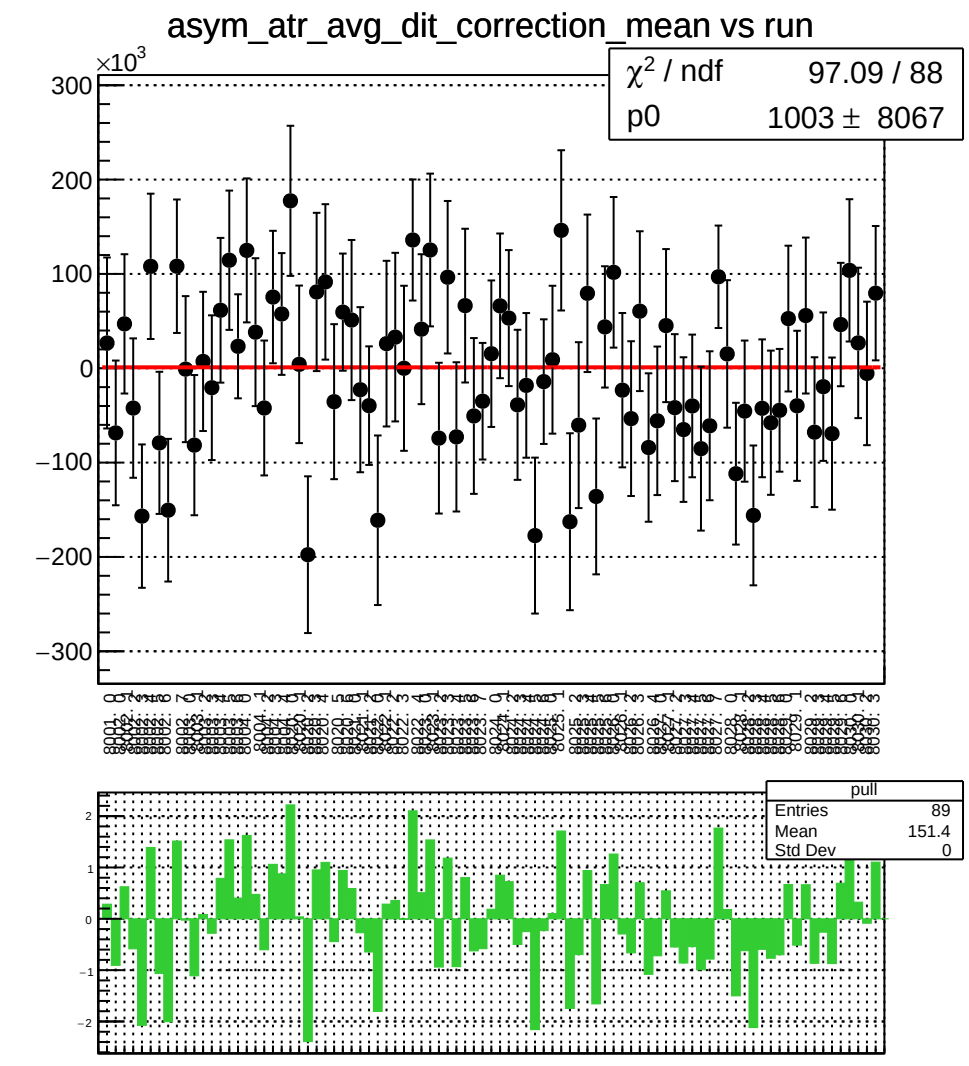

pull1D
Entries 89
Mean −0.02364
Std Dev 1.046
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

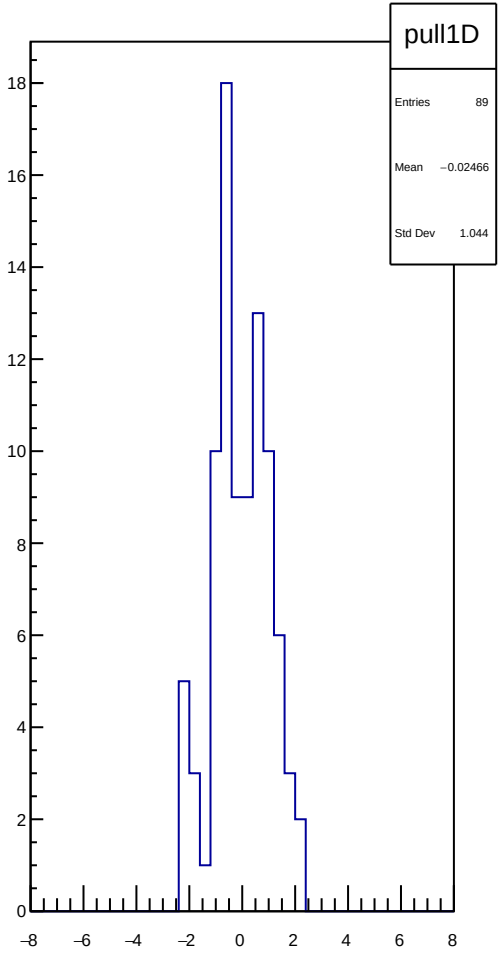

asym_atr_avg_eigen_cor_correction_rms vs run
χ² / ndf 4777 / 88
p0 7374 ± 5.606
8500
8000
7500
7000
6500

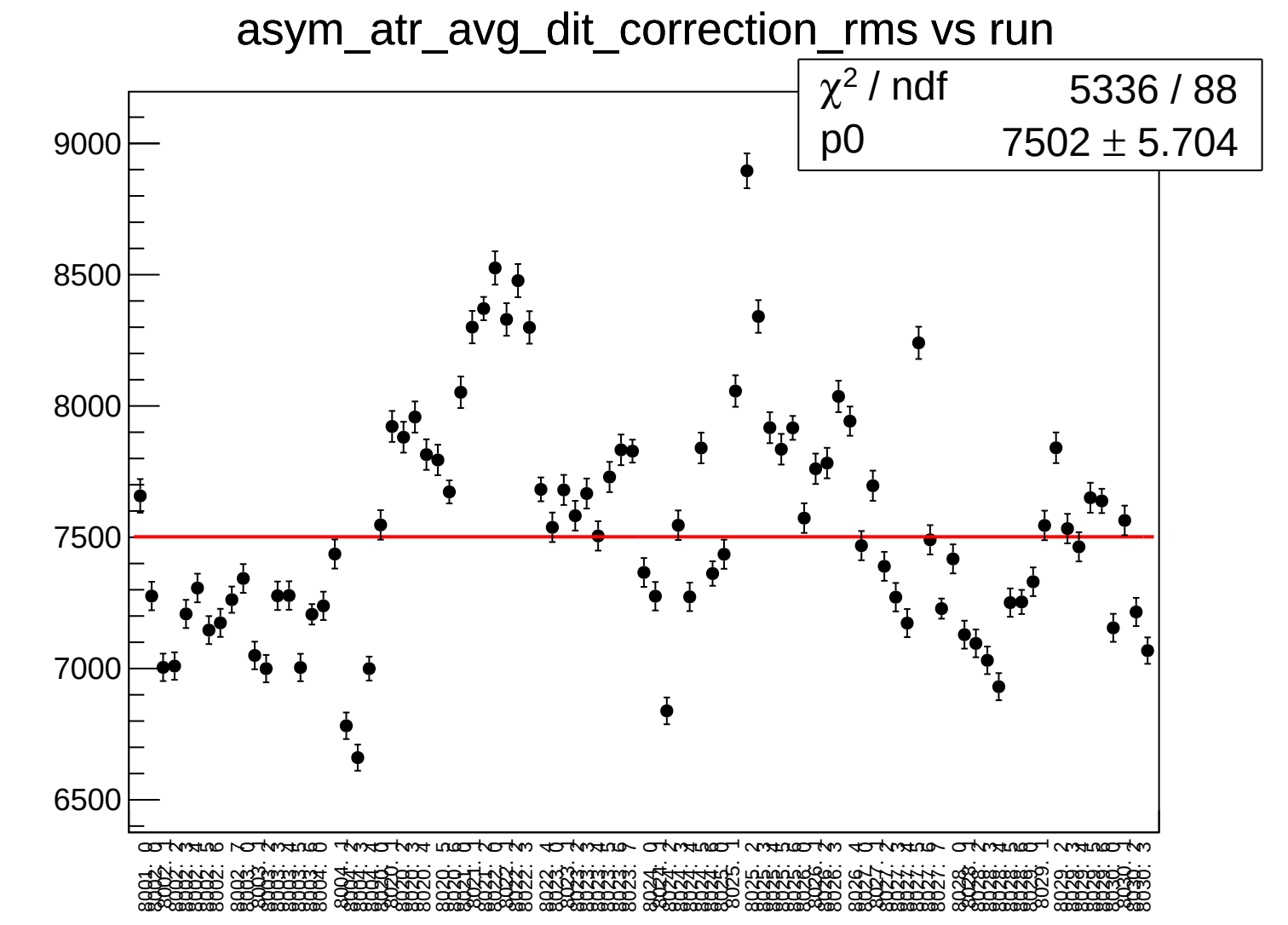

dit_asym_atr_avg_mean vs run
χ² / ndf 85.61 / 88
p0 −1662 ± 2174
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −121.4
Std Dev 0
3
2
1
0
−1

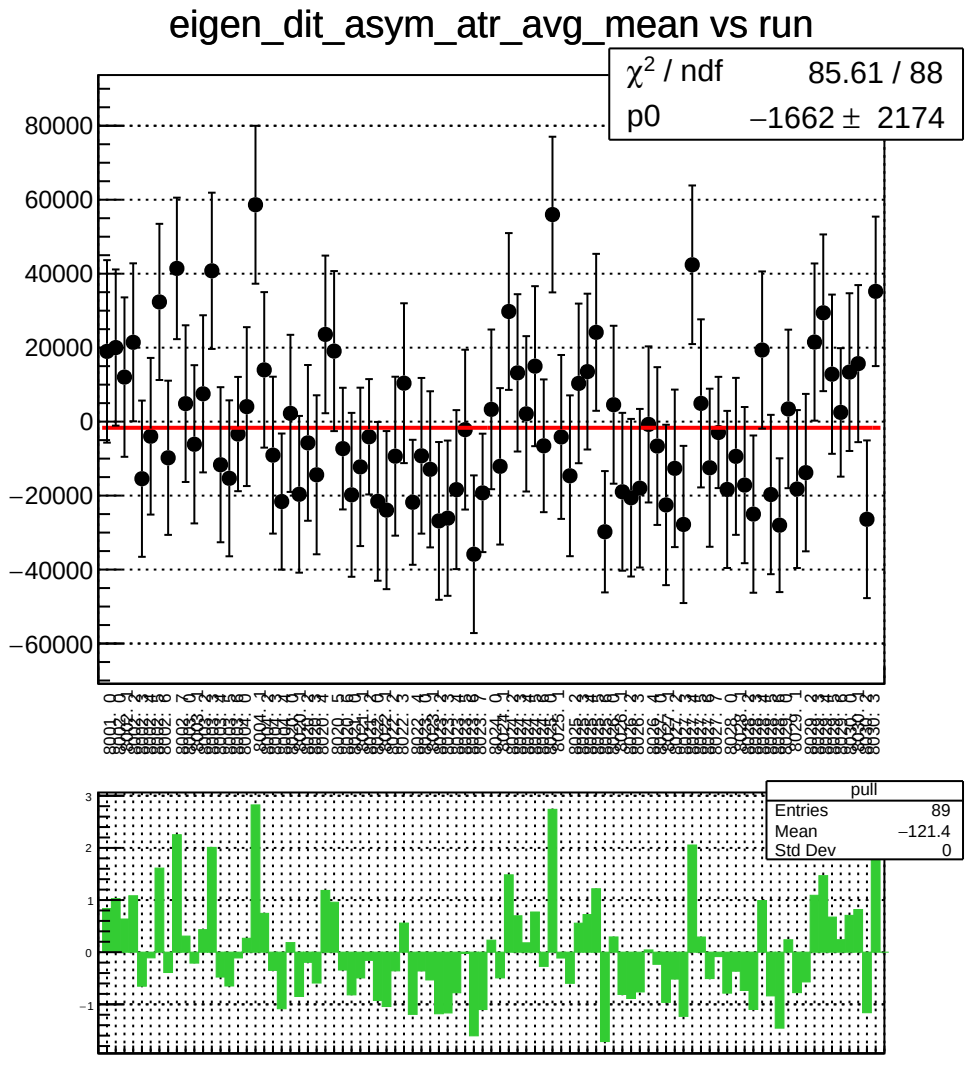

pull1D
Entries 89
Mean 0.01742
Std Dev 0.9806
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

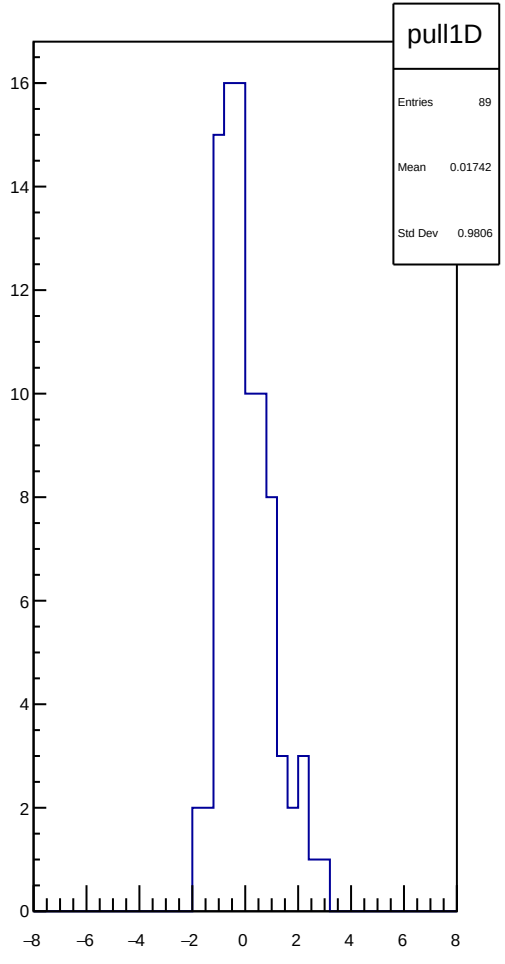

dit_asym_atr_avg_rms vs run
χ² / ndf 344.2 / 88
p0 2025 ± 1.537
2150
2100
2050
2000
1950

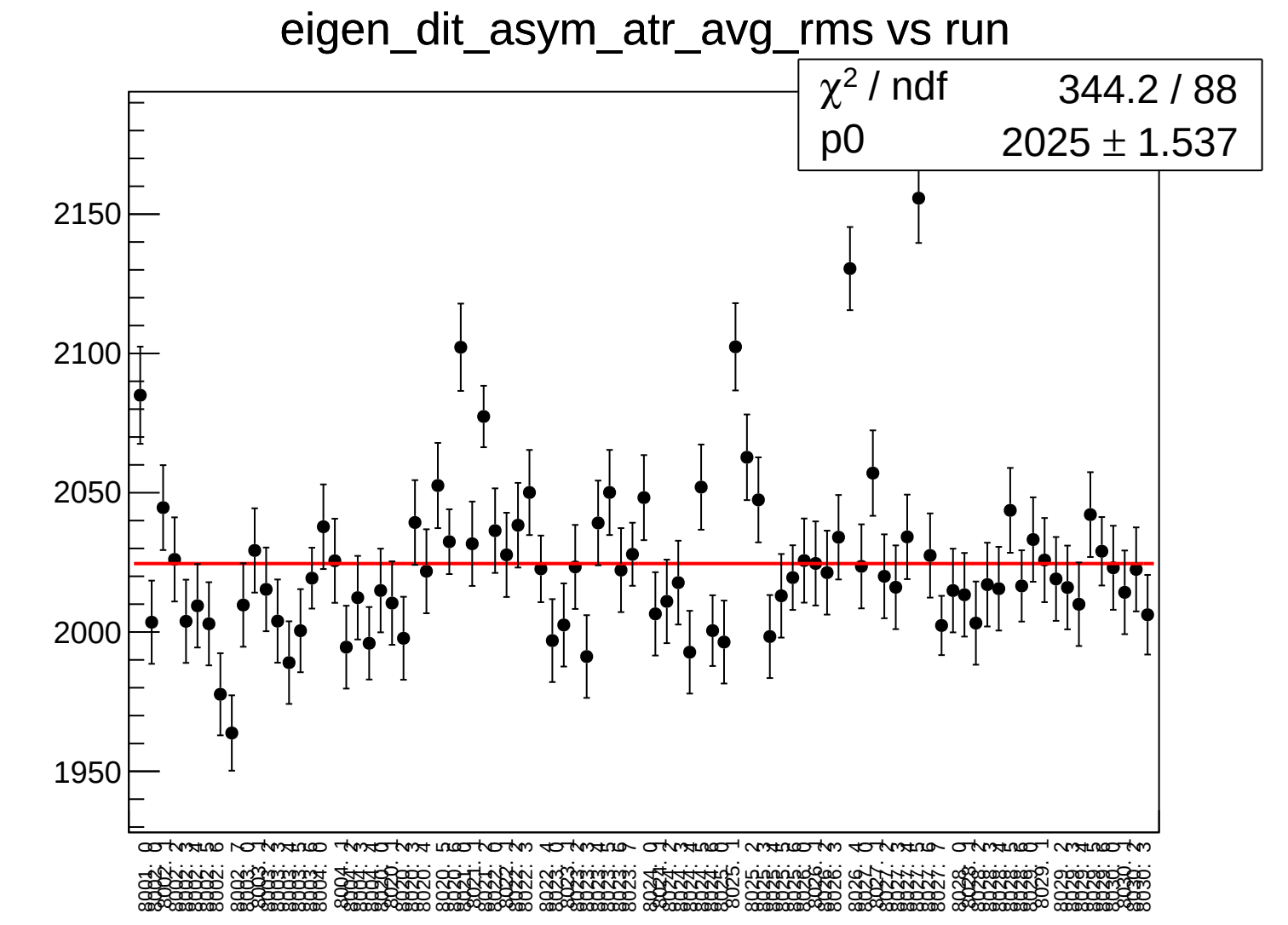

asym_atr_avg_dit_correction_mean vs run
×10^3
χ² / ndf 97.09 / 88
p0 1003 ± 8067
pull
Entries 89
Mean 151.4
Std Dev 0

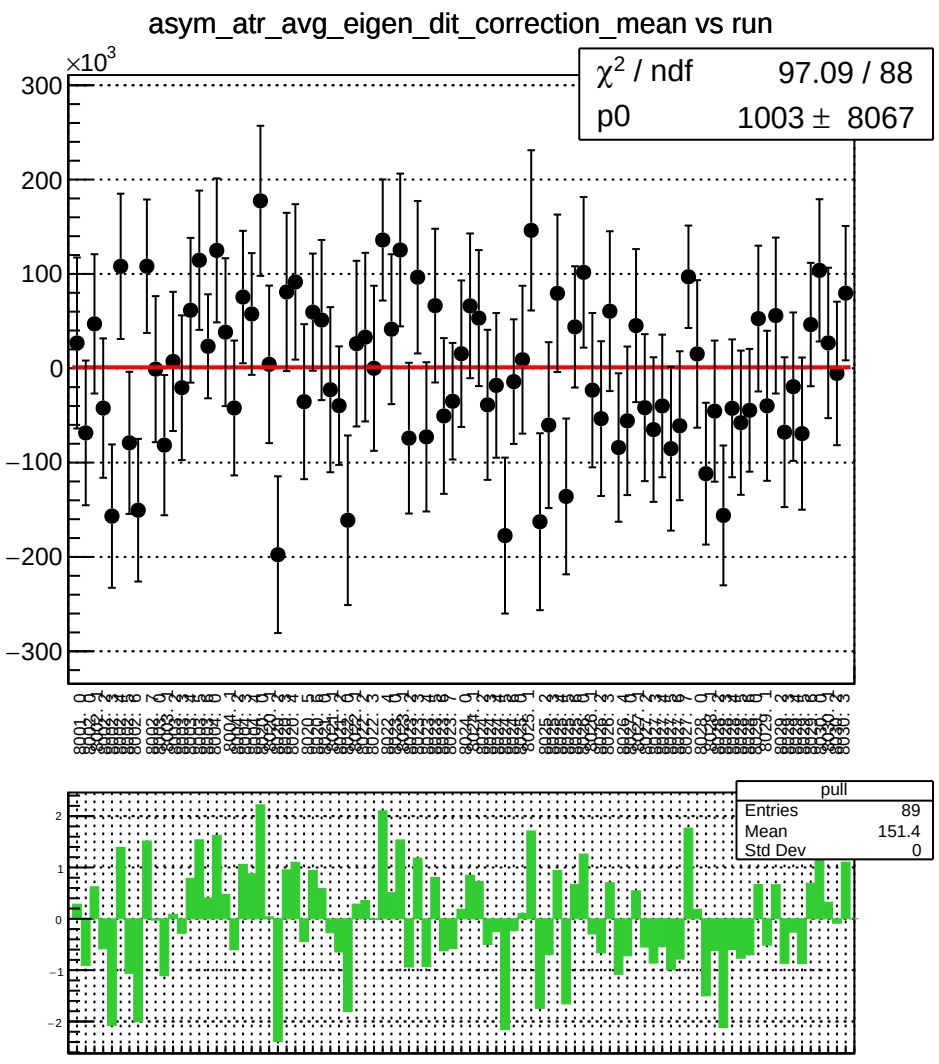

pull1D
Entries 89
Mean −0.02466
Std Dev 1.044

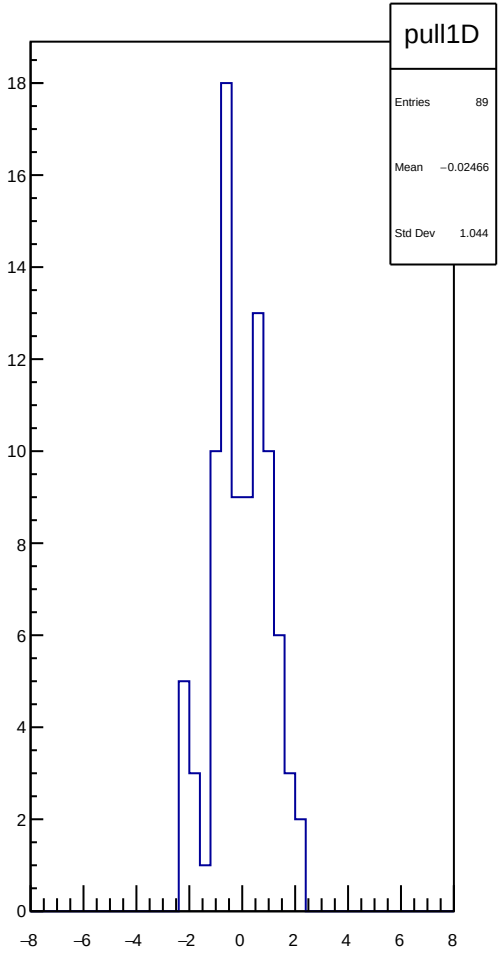

asym_atr_avg_dit_correction_rms vs run
χ² / ndf 5336 / 88
p0 7502 ± 5.704
9000
8500
8000
7500
7000
6500

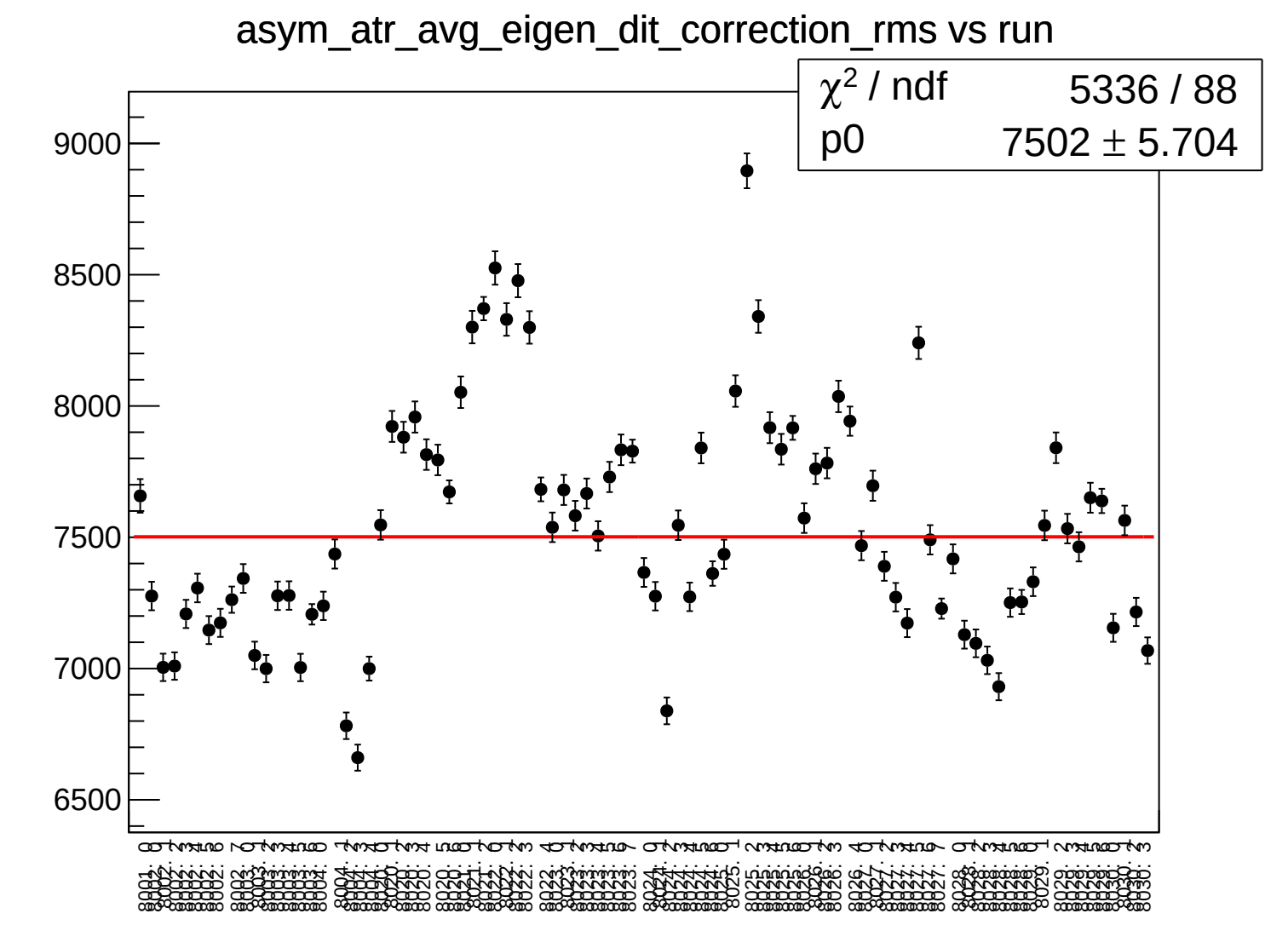

eigen_dit_asym_atr_avg_mean vs run
χ² / ndf 85.61 / 88
p0 −1662 ± 2174
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −121.4
Std Dev 0
3
2
1
0
−1

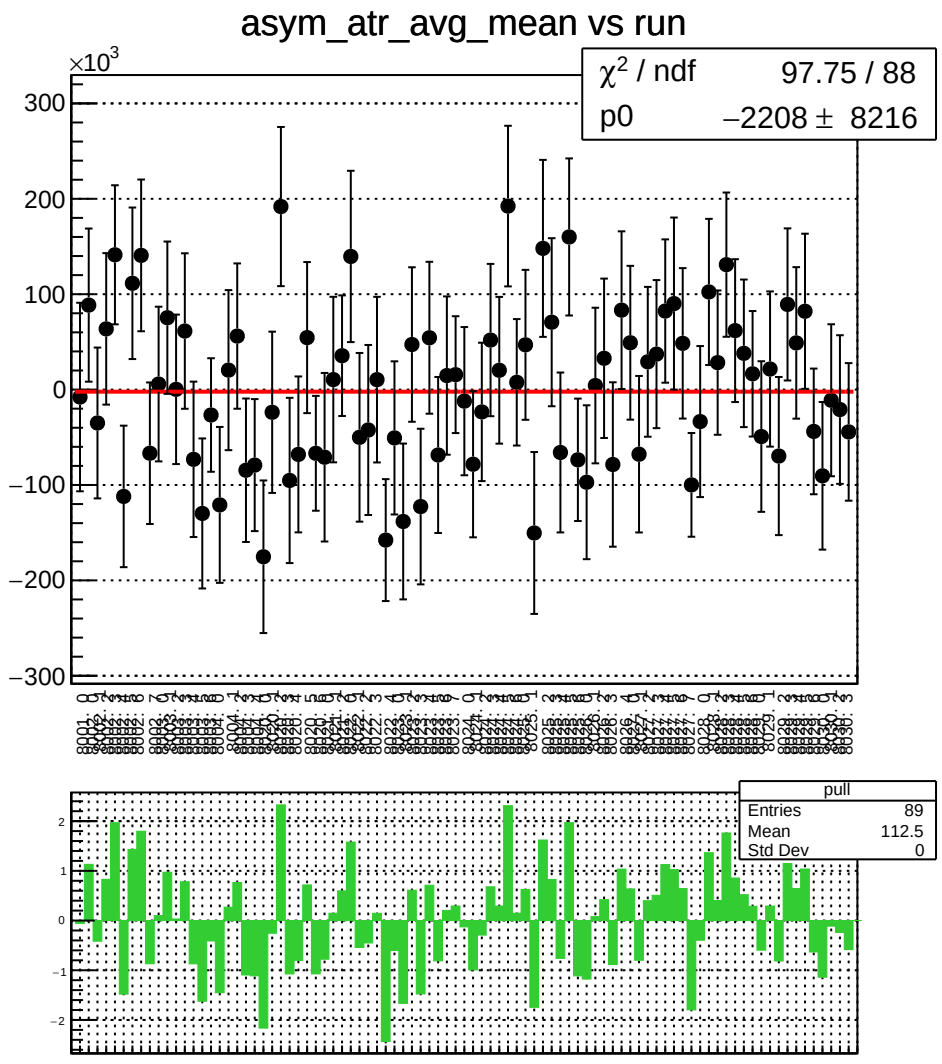

pull1D
Entries 89
Mean 0.01742
Std Dev 0.9806
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

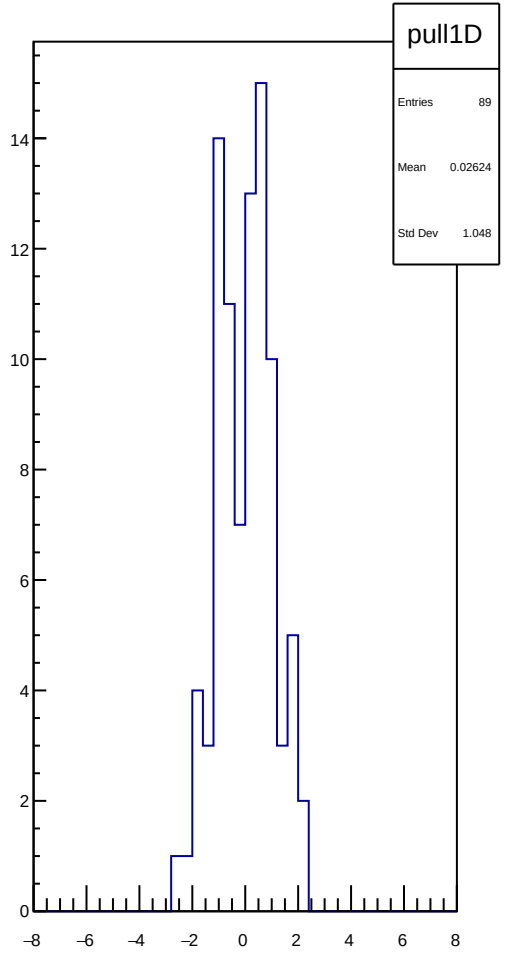

eigen_dit_asym_atr_avg_rms vs run
χ^2 / ndf 344.2 / 88
p0 2025 ± 1.537
2150
2100
2050
2000
1950

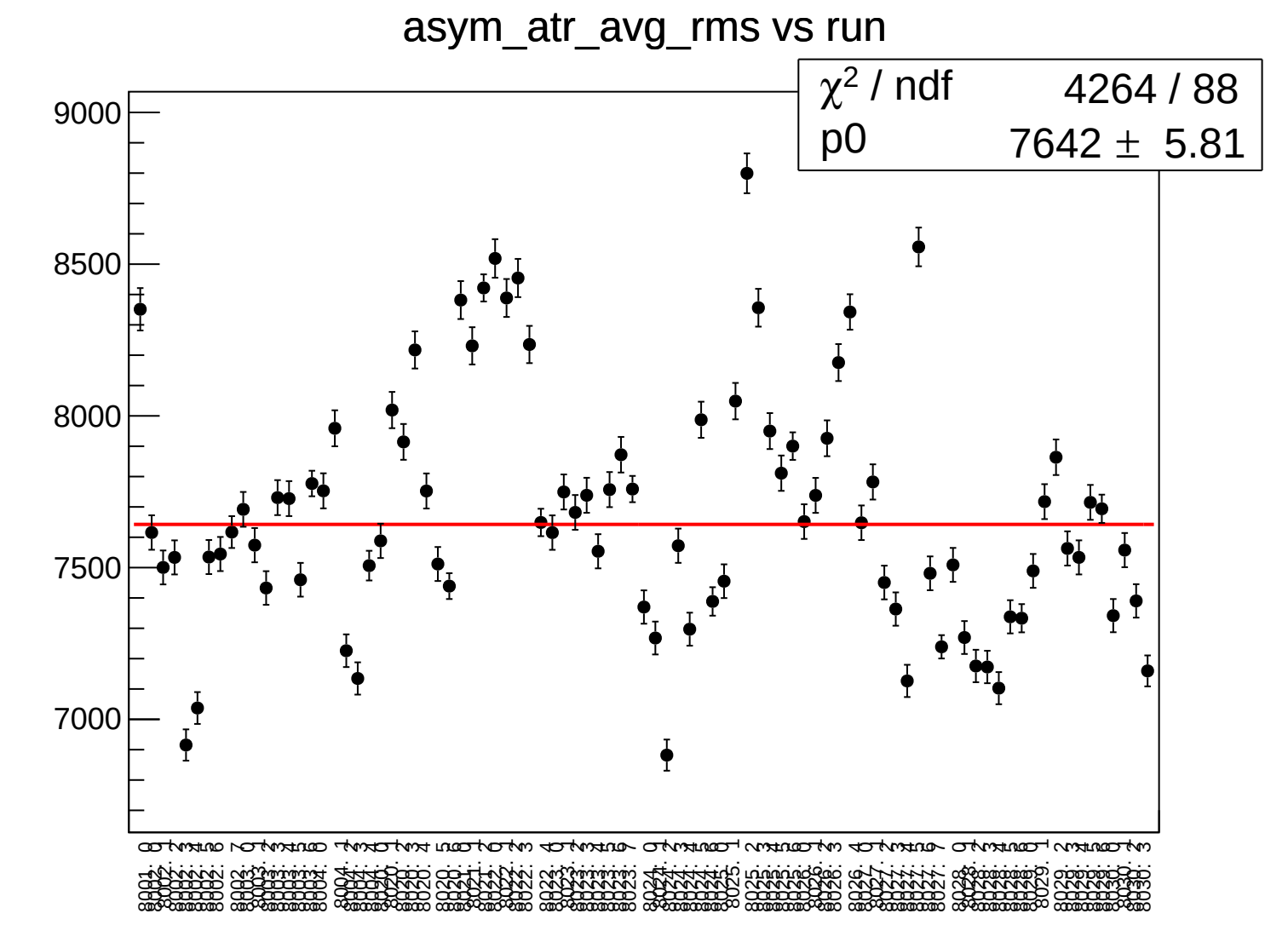

asym_atr_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 97.09 / 88
p0 1003 ± 8067
pull
Entries 89
Mean 151.4
Std Dev 0

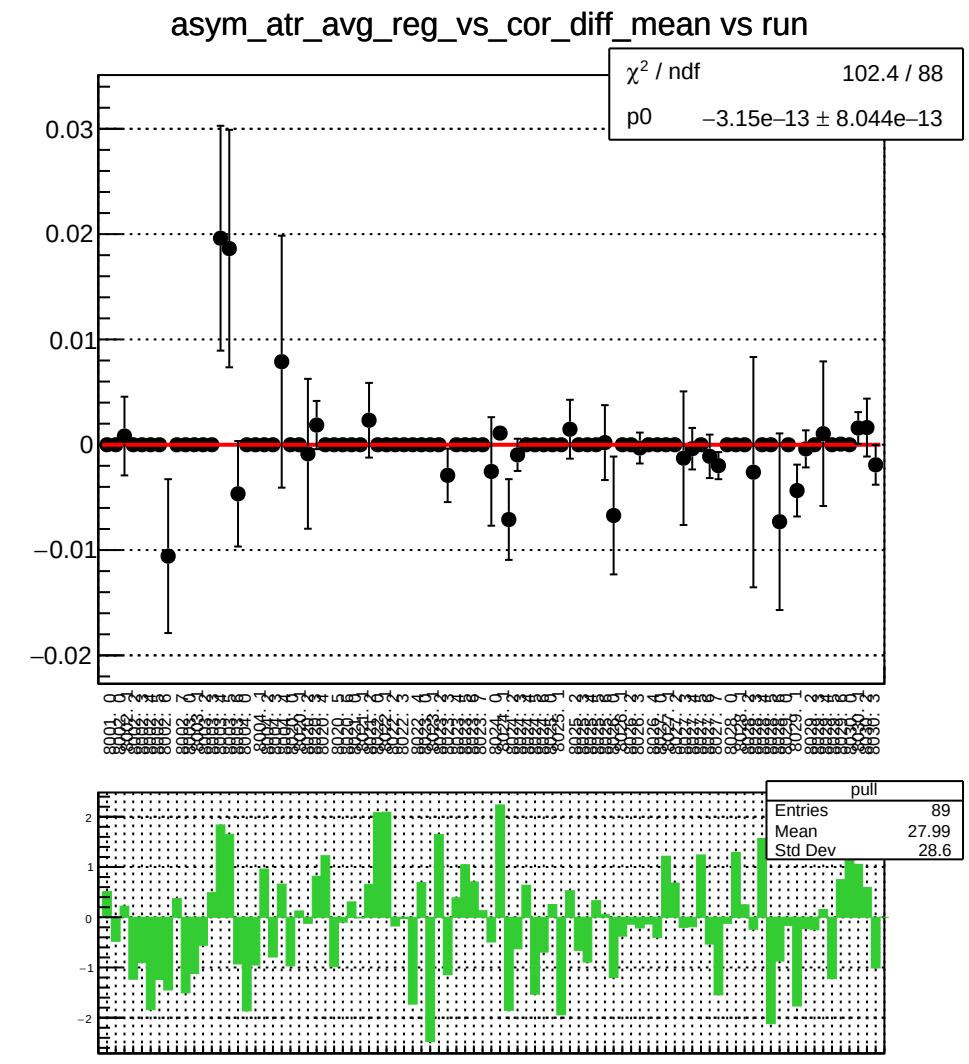

pull1D
Entries 89
Mean −0.02466
Std Dev 1.044

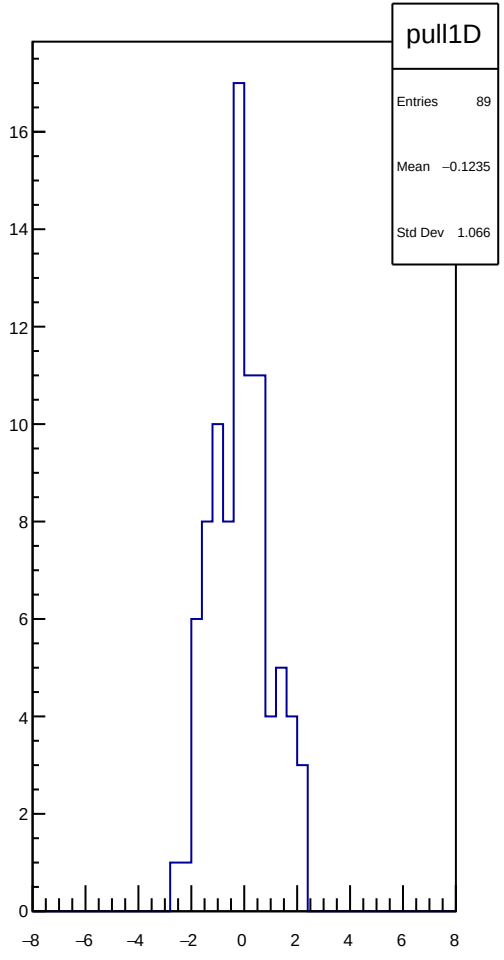

asym_atr_avg_eigen_dit_correction_rms vs run
χ² / ndf 5336 / 88
p0 7502 ± 5.704
9000
8500
8000
7500
7000
6500

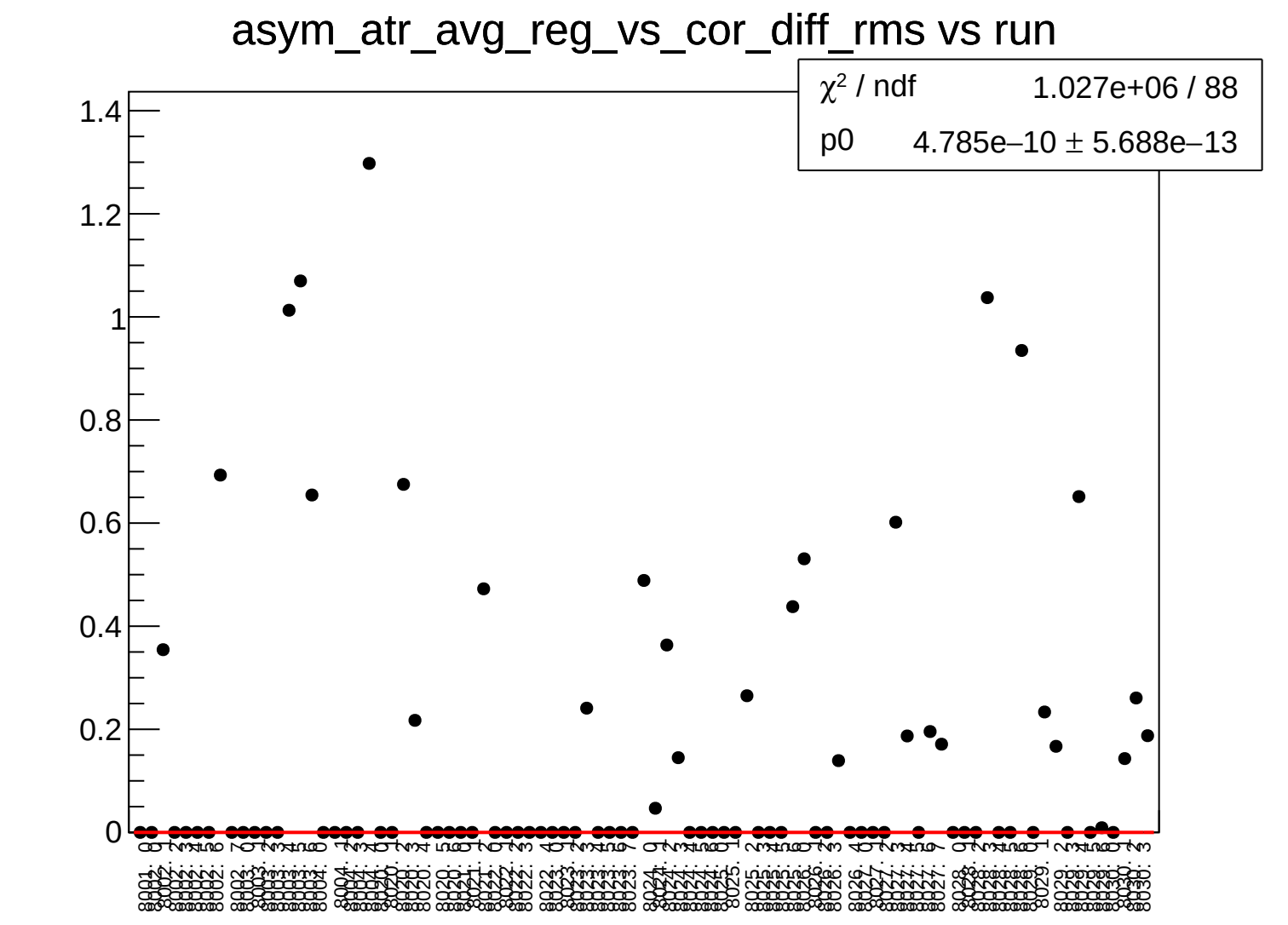

asym_atr_avg_mean vs run
×10^3
χ² / ndf 97.75 / 88
p0 −2208 ± 8216
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean 112.5
Std Dev 0
2
1
0
−1
−2

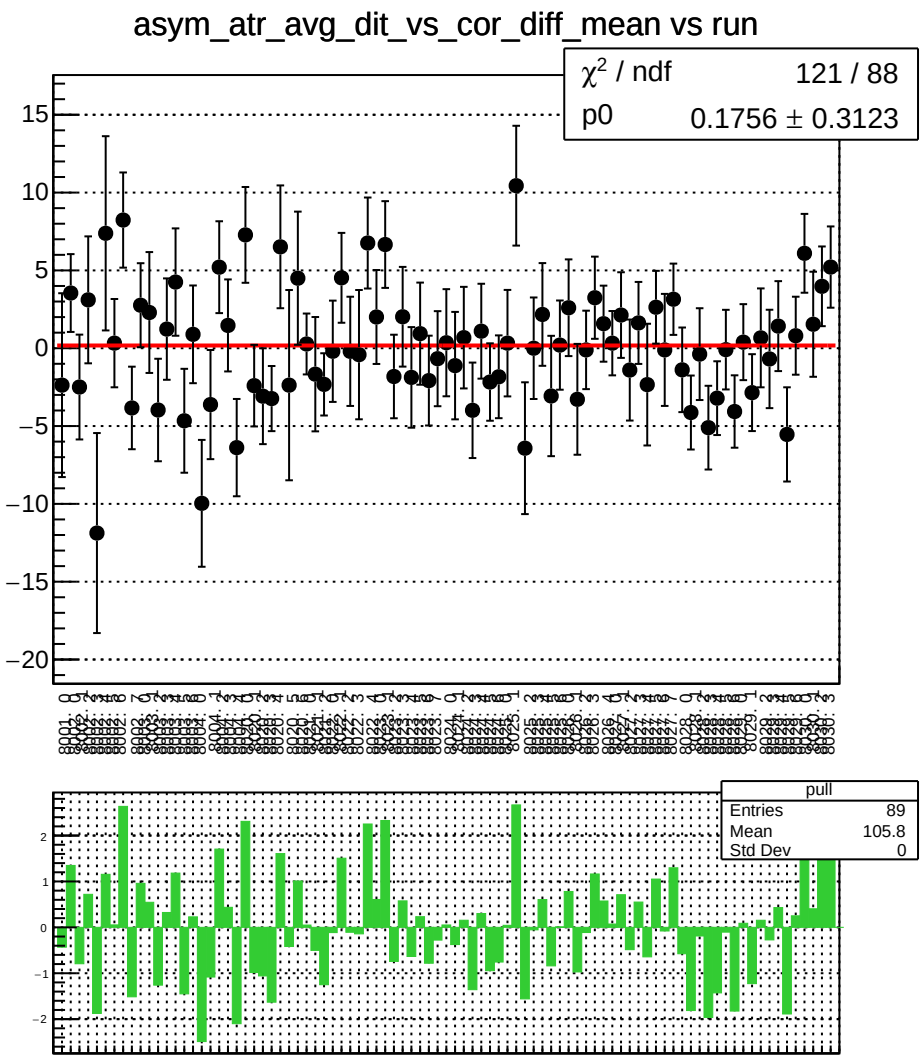

pull1D
Entries 89
Mean 0.02624
Std Dev 1.048
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

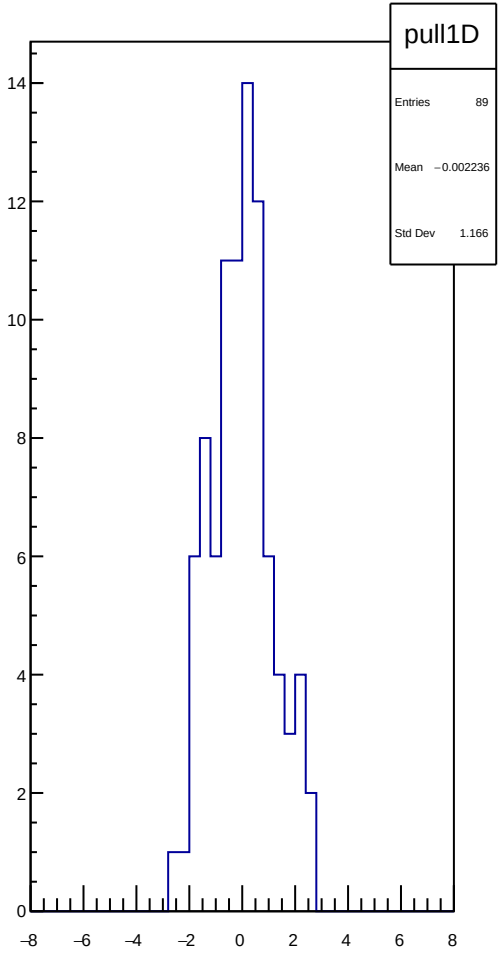

asym_atr_avg_rms vs run
χ² / ndf 4264 / 88
p0 7642 ± 5.81
9000
8500
8000
7500
7000

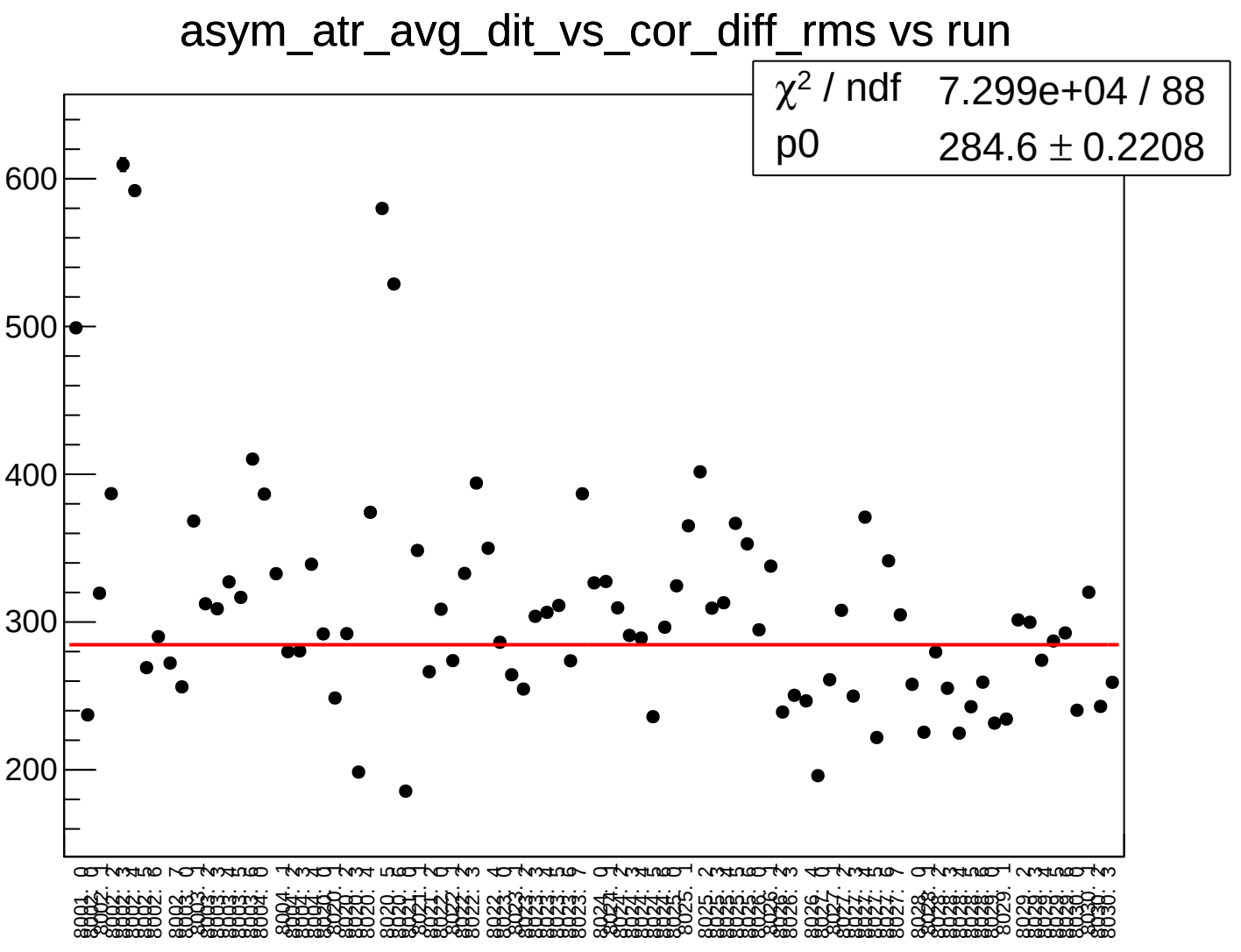

asym_atr_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 102.4 / 88
p0 −3.15e−13 ± 8.044e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 89
Mean 27.99
Std Dev 28.6
2
1
0
−1
−2

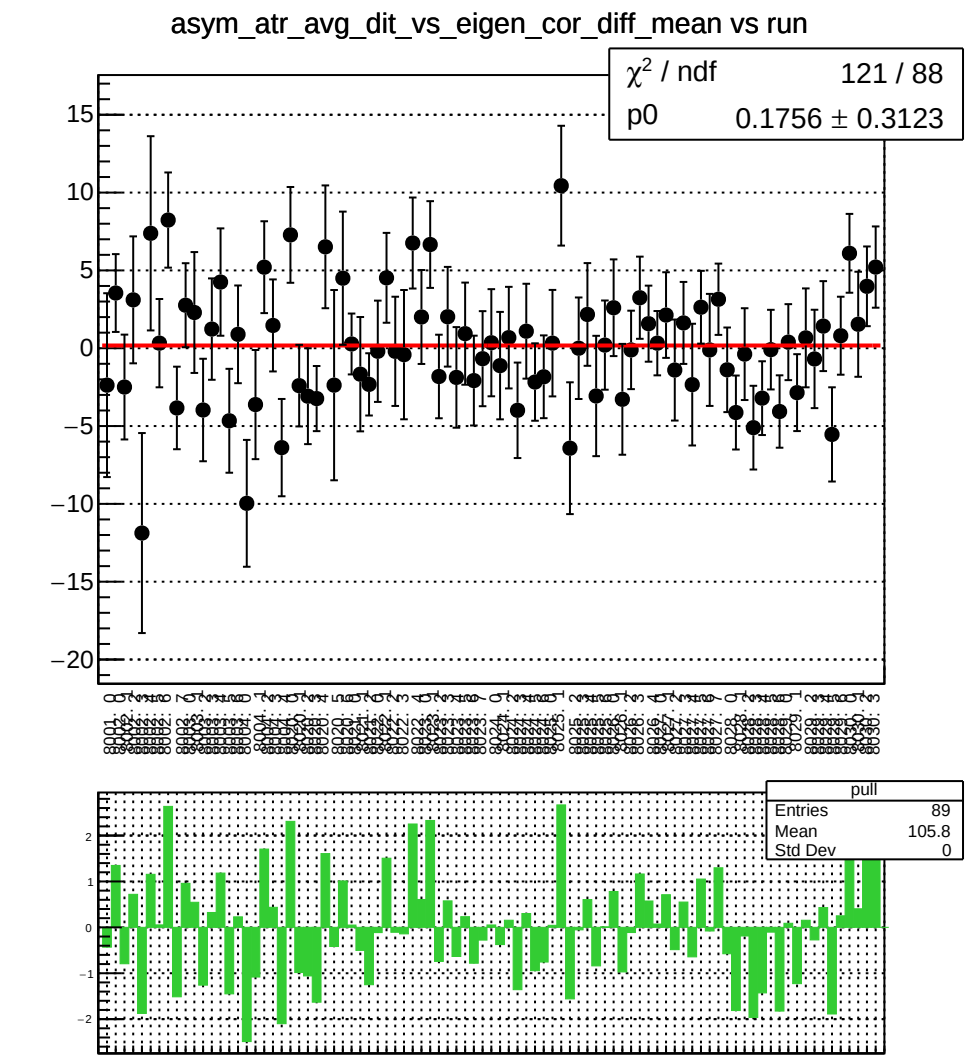

pull1D
Entries 89
Mean −0.1235
Std Dev 1.066
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

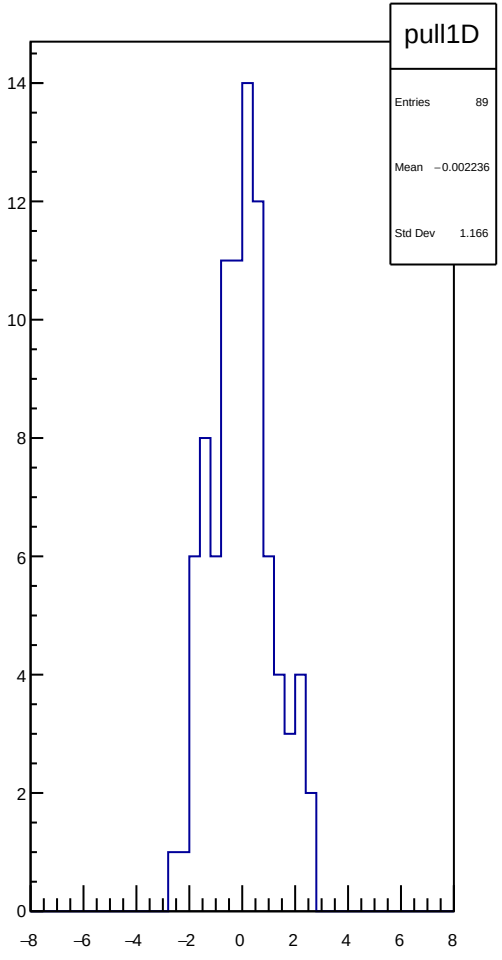

asym_atr_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.027e+06 / 88
p0 4.785e−10 ± 5.688e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

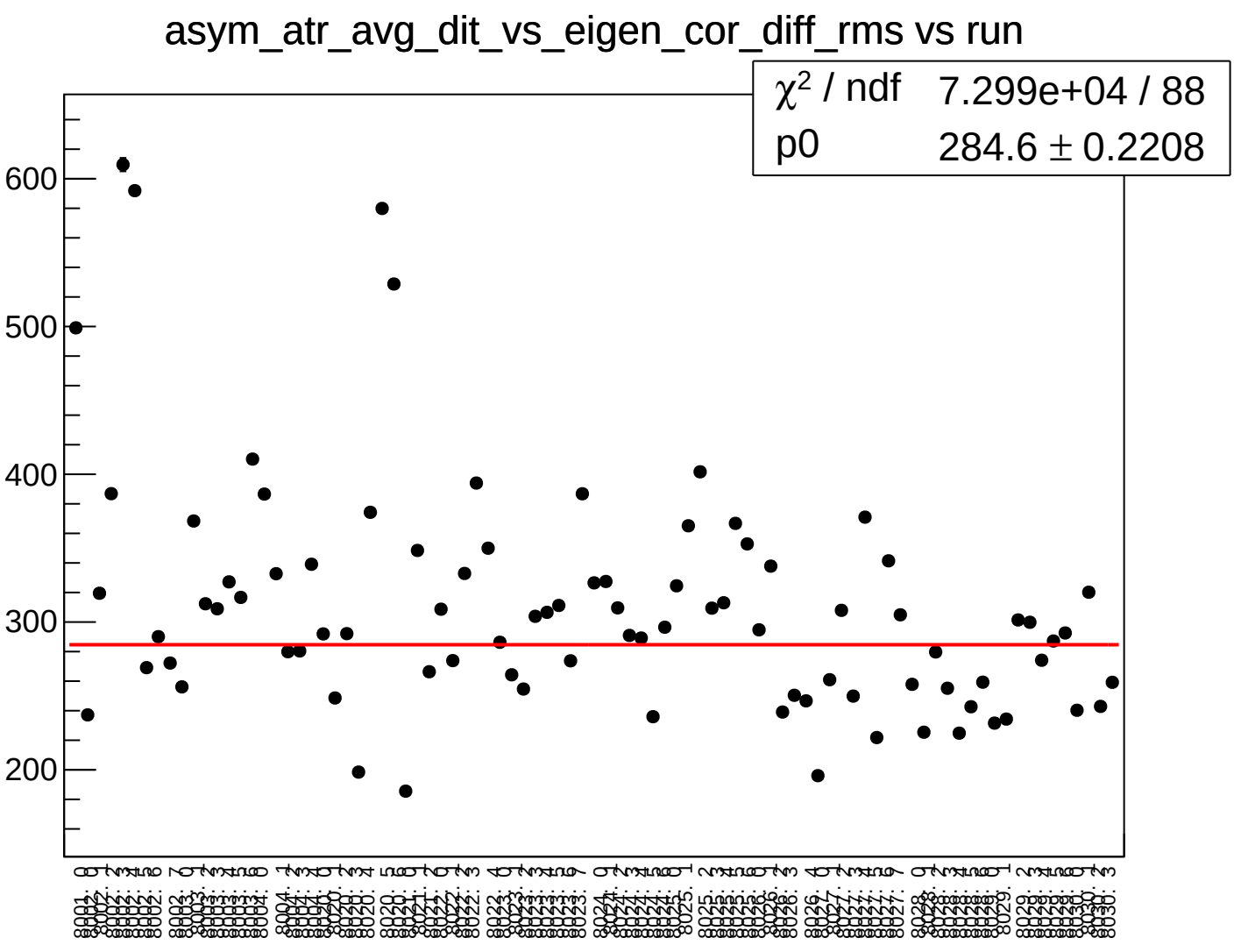

asym_atr_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 121 / 88
p0 0.1756 ± 0.3123
pull
Entries 89
Mean 105.8
Std Dev 0

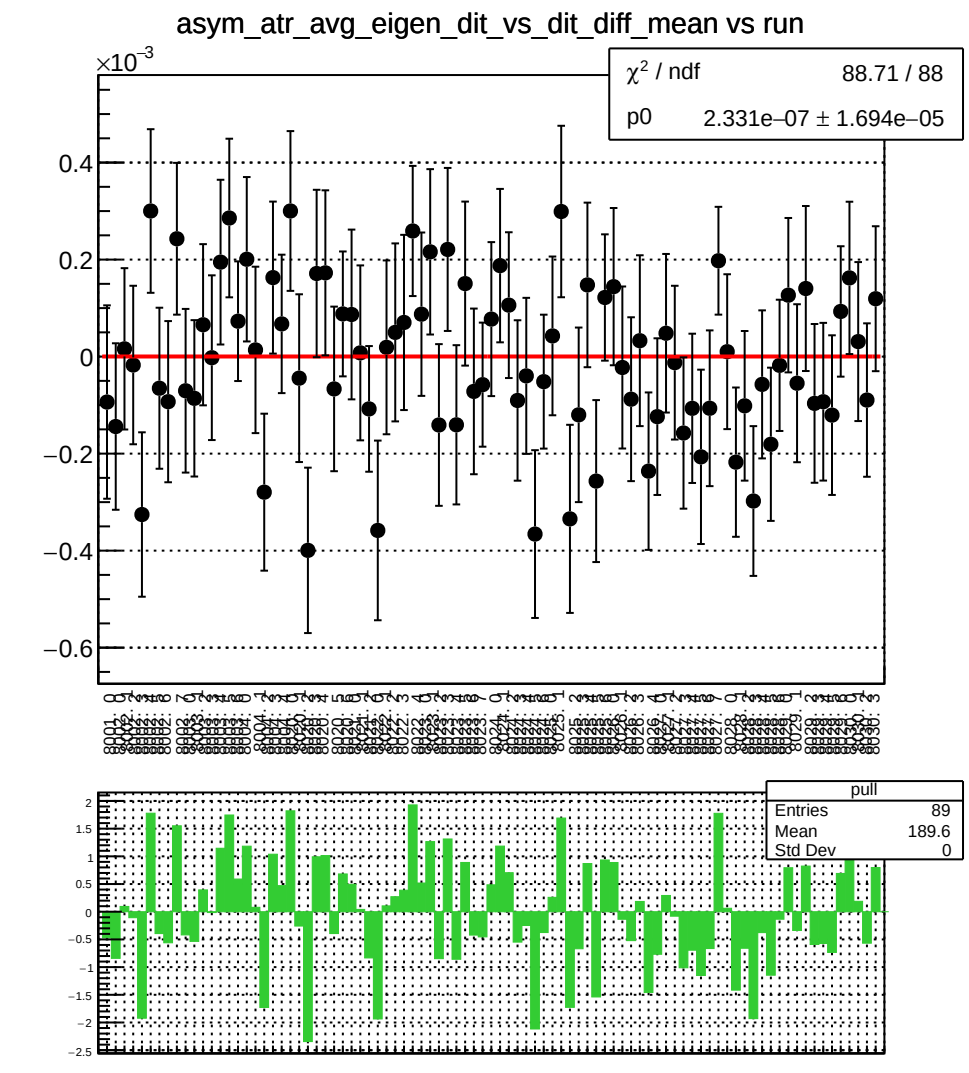

pull1D
Entries 89
Mean −0.002236
Std Dev 1.166

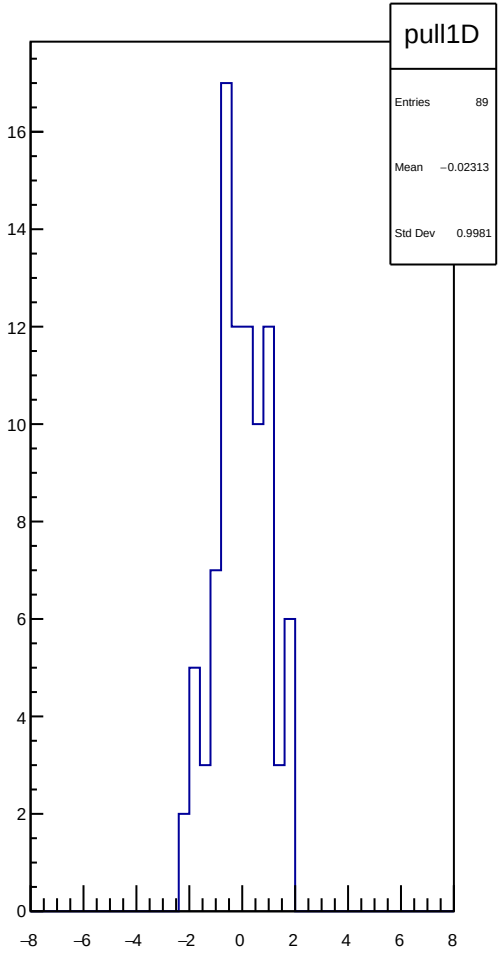

asym_atr_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.299e+04 / 88
p0 284.6 ± 0.2208
600
500
400
300
200

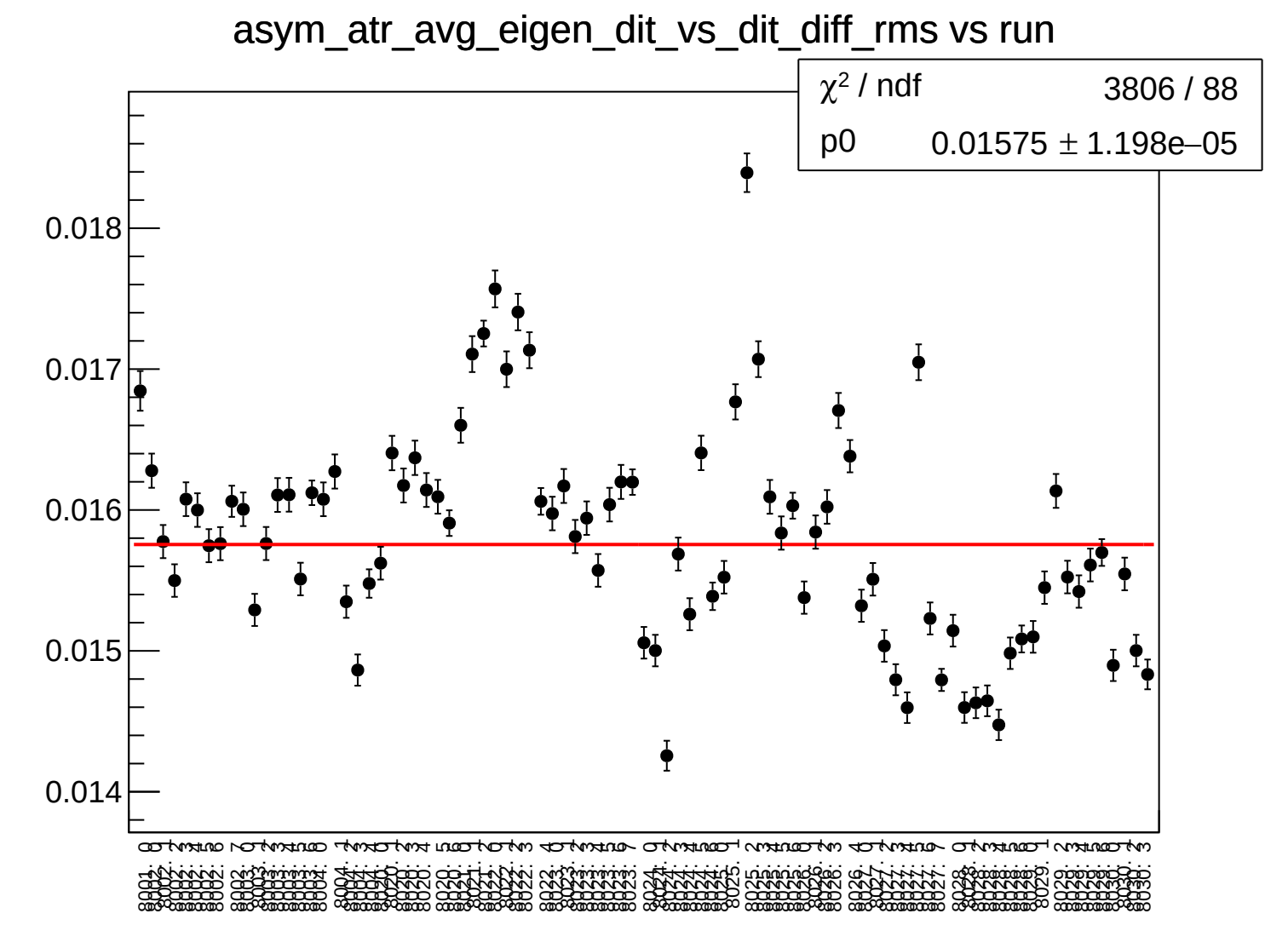

asym_atr_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 121 / 88
p0 0.1756 ± 0.3123
pull
Entries 89
Mean 105.8
Std Dev 0

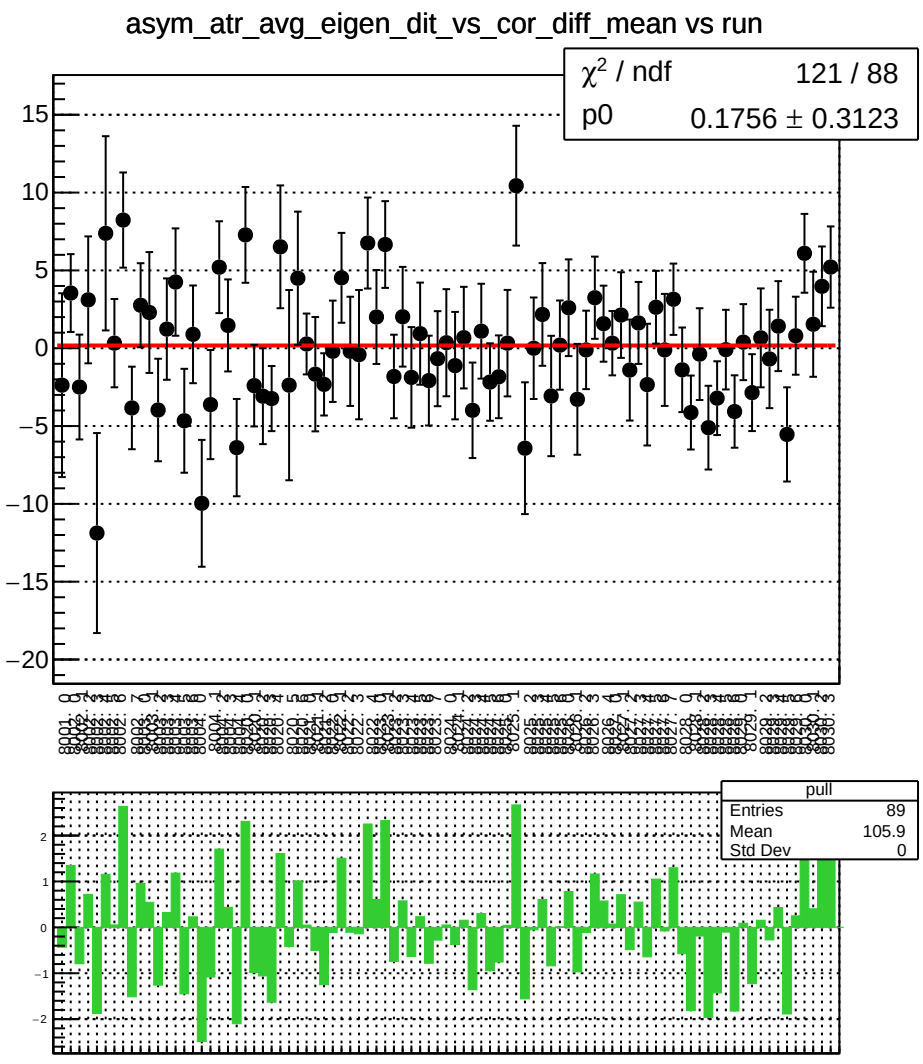

pull1D
Entries 89
Mean −0.002236
Std Dev 1.166

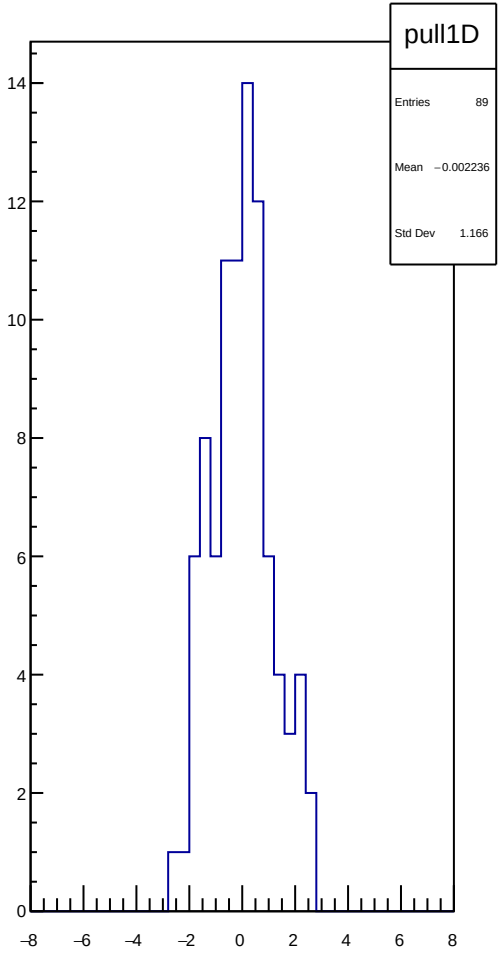

asym_atr_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.299e+04 / 88
p0 284.6 ± 0.2208
600
500
400
300
200

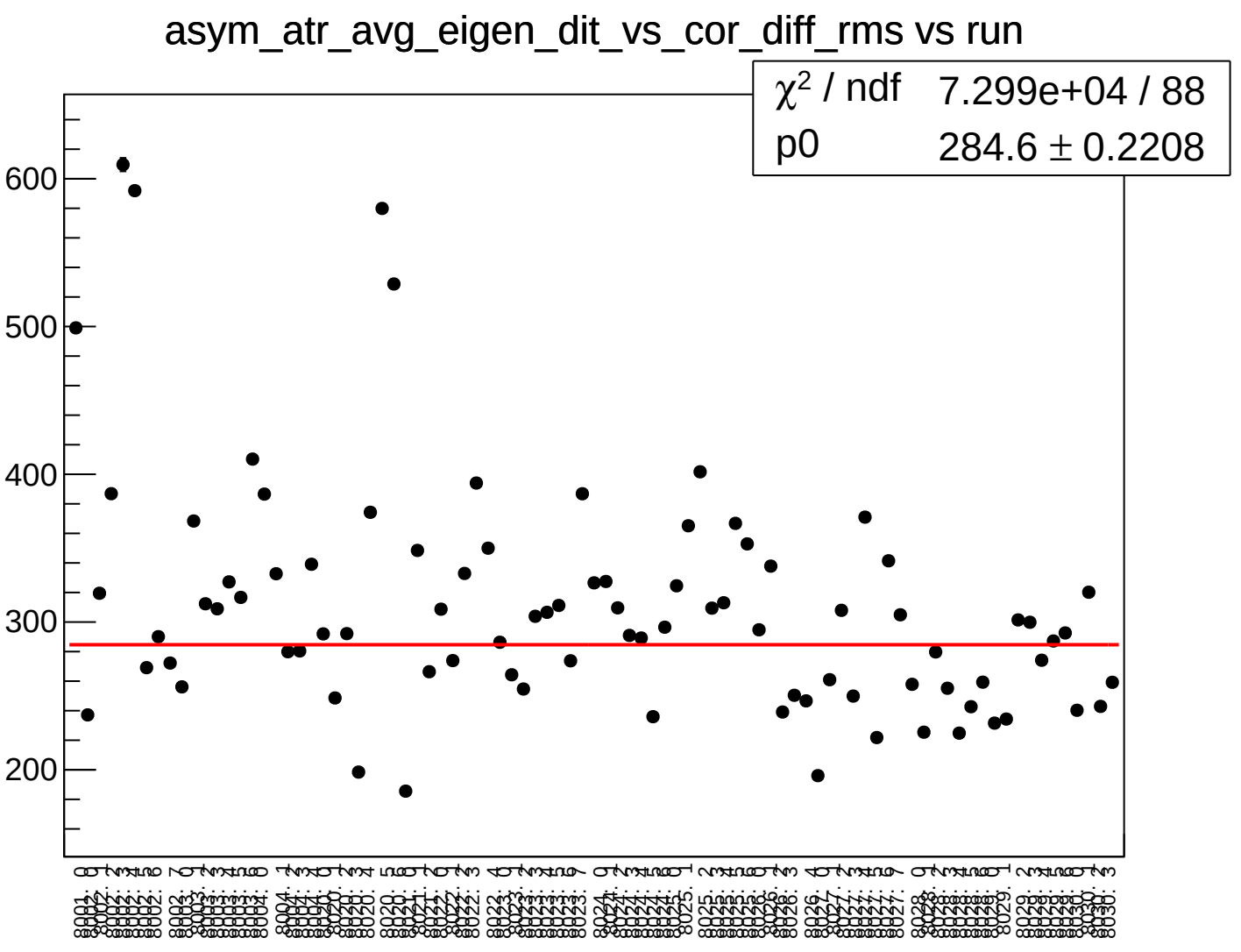

asym_atr_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.71 / 88
p0 2.331e−07 ± 1.694e−05
pull
Entries 89
Mean 189.6
Std Dev 0

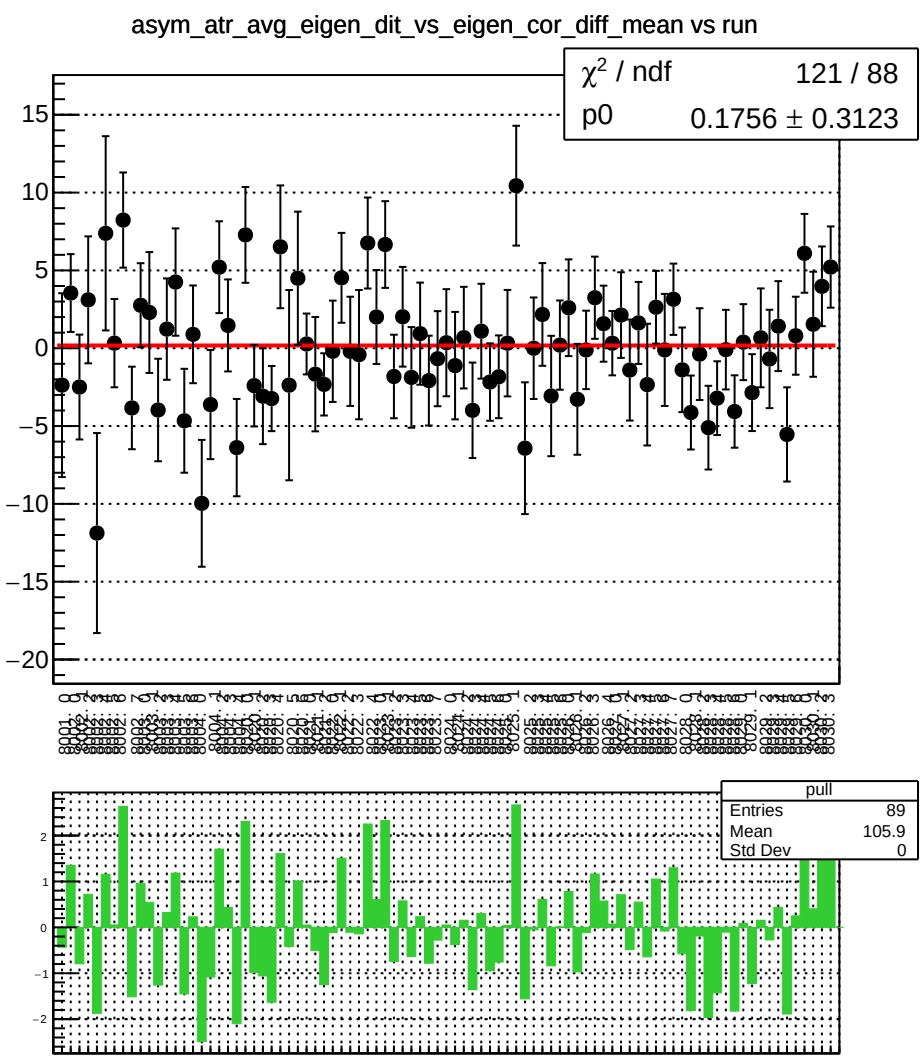

pull1D
Entries 89
Mean −0.02313
Std Dev 0.9981

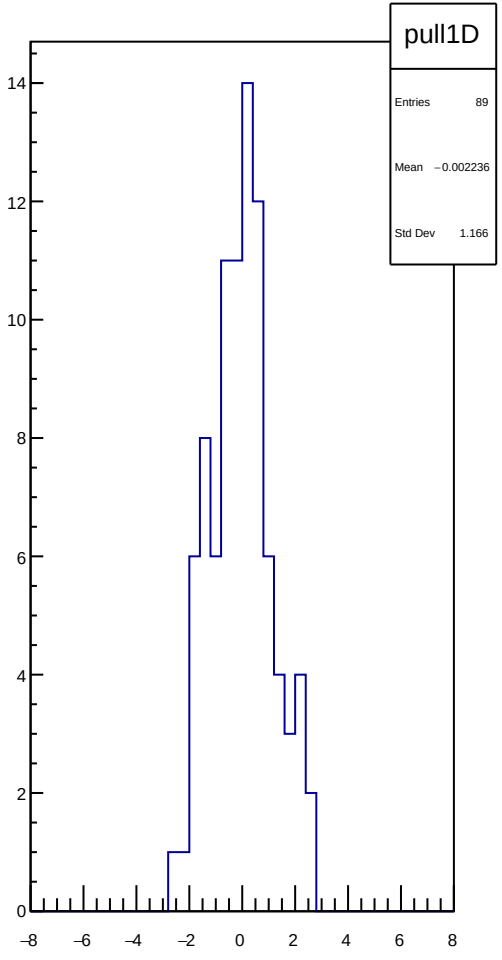

asym_atr_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3806 / 88
p0 0.01575 ± 1.198e–05
0.018
0.017
0.016
0.015
0.014

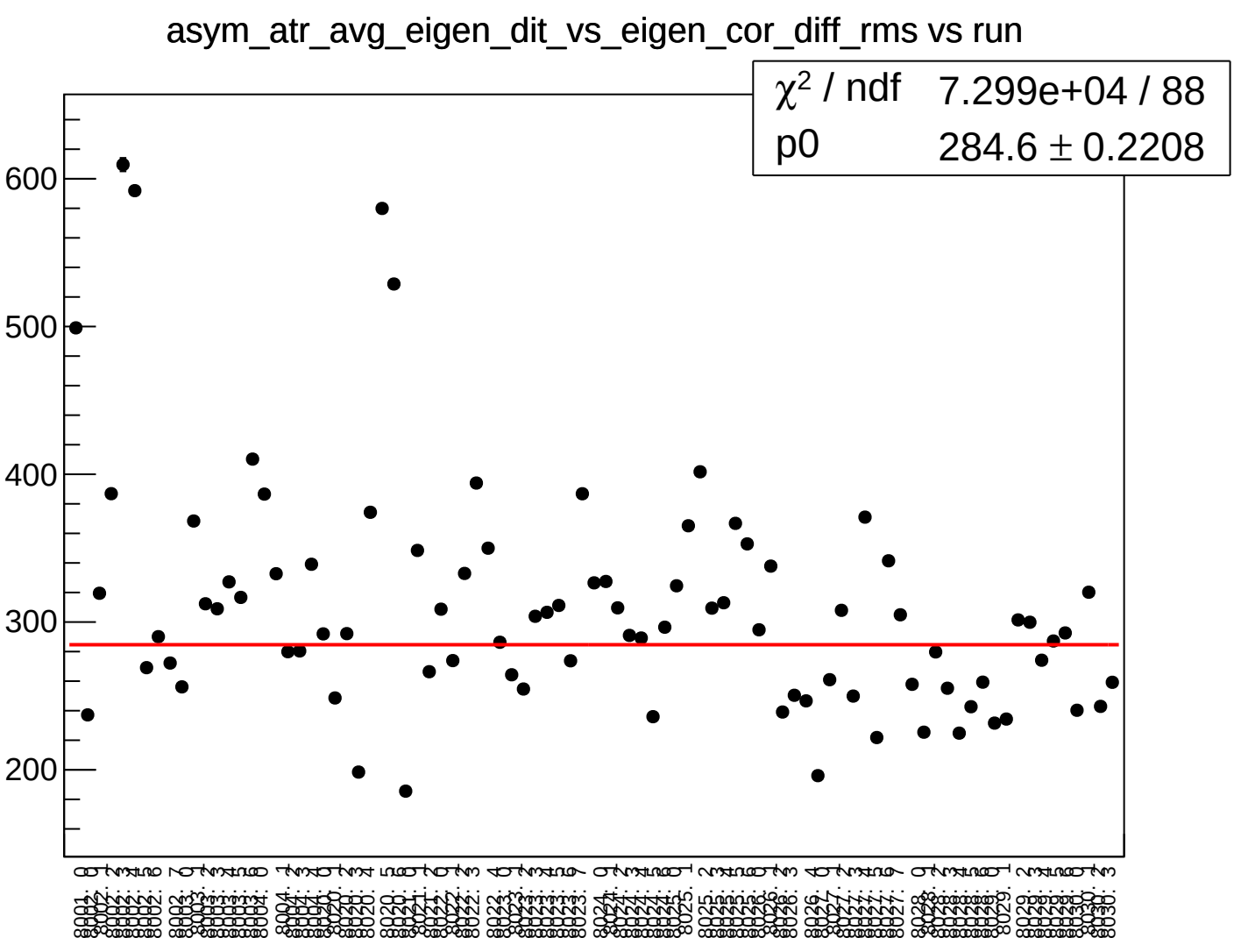

asym_atr_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 121 / 88
p0 0.1756 ± 0.3123
pull
Entries 89
Mean 105.9
Std Dev 0

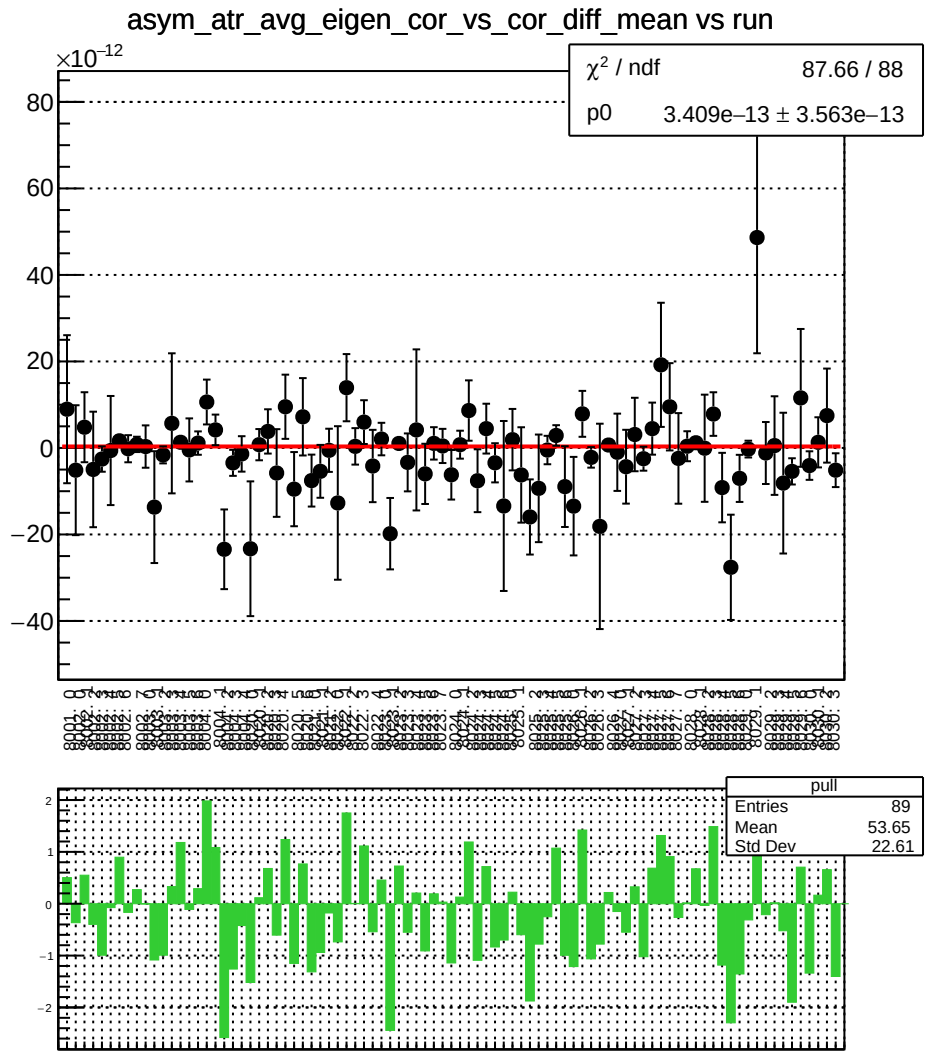

pull1D
Entries 89
Mean −0.002236
Std Dev 1.166

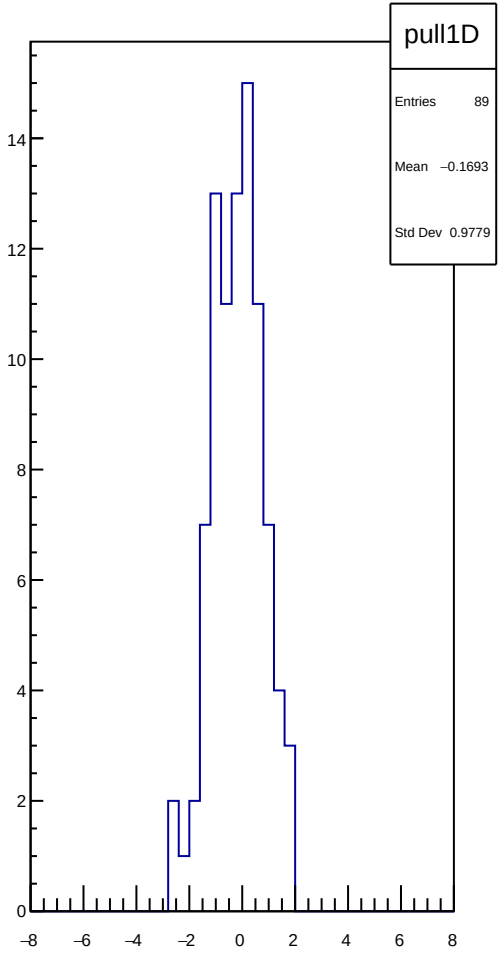

asym_atr_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.299e+04 / 88
p0 284.6 ± 0.2208
600
500
400
300
200

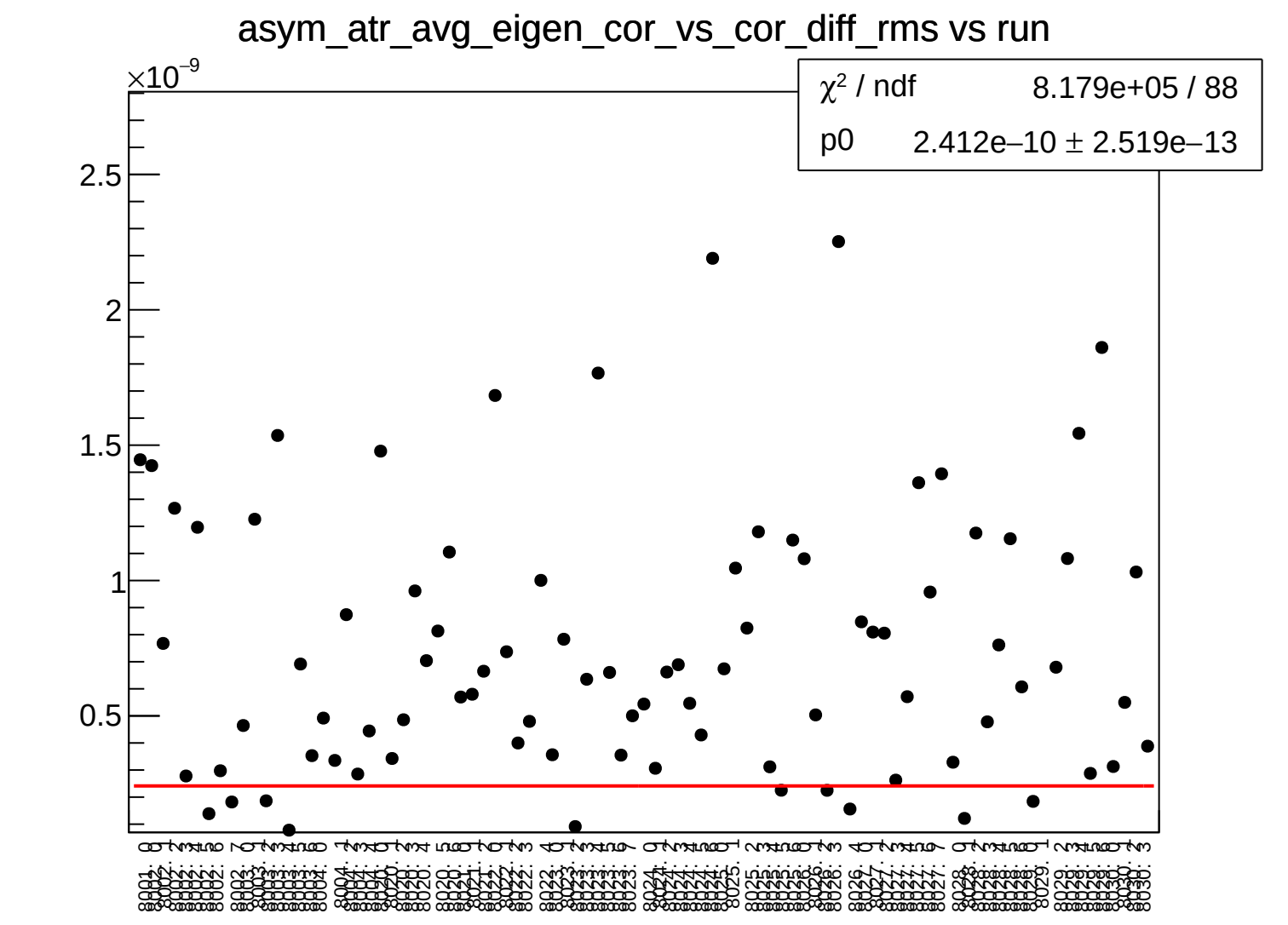

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 121 / 88
p0 0.1756 ± 0.3123
pull
Entries 89
Mean 105.9
Std Dev 0

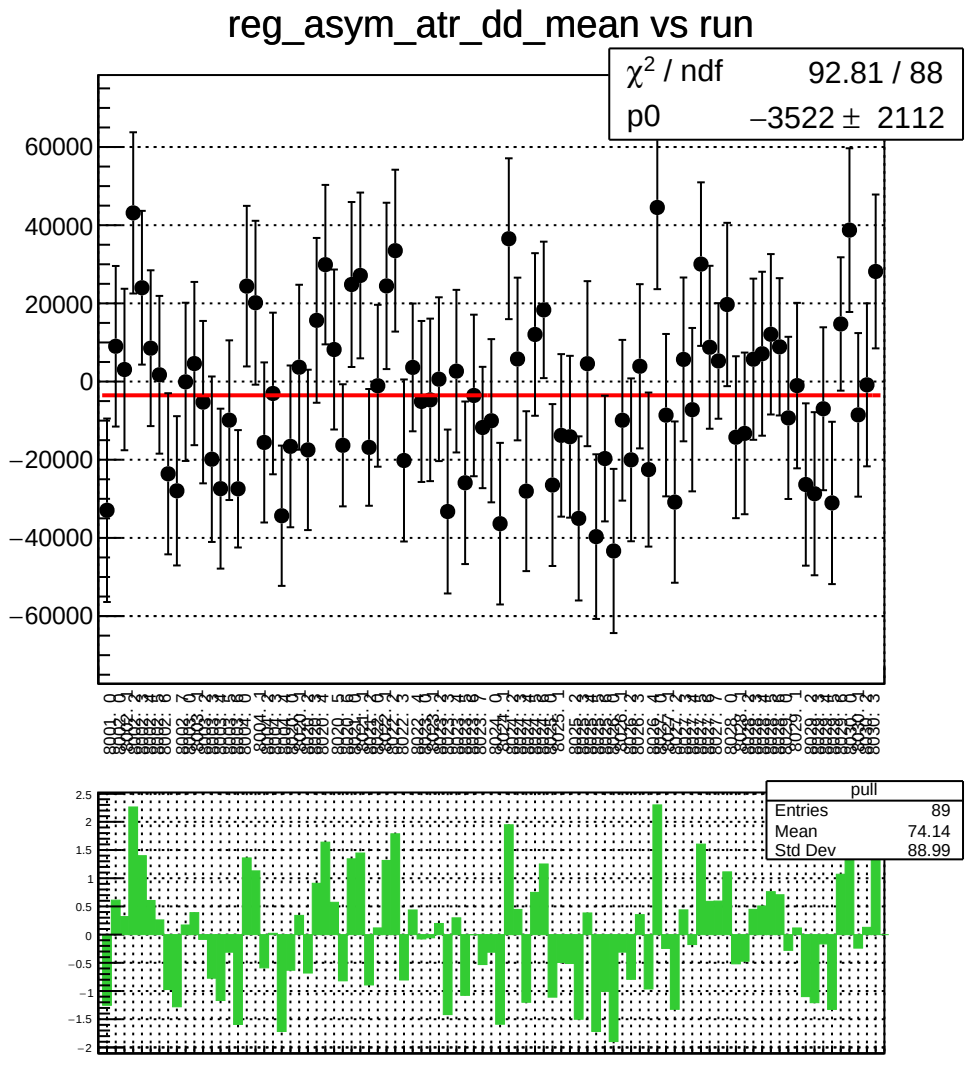

pull1D
Entries 89
Mean −0.002236
Std Dev 1.166

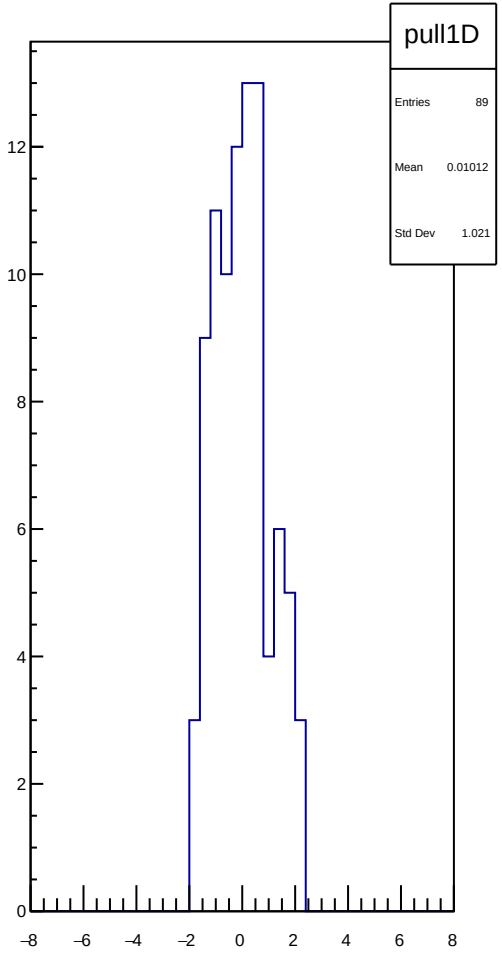

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.299e+04 / 88
p0 284.6 ± 0.2208
600
500
400
300
200

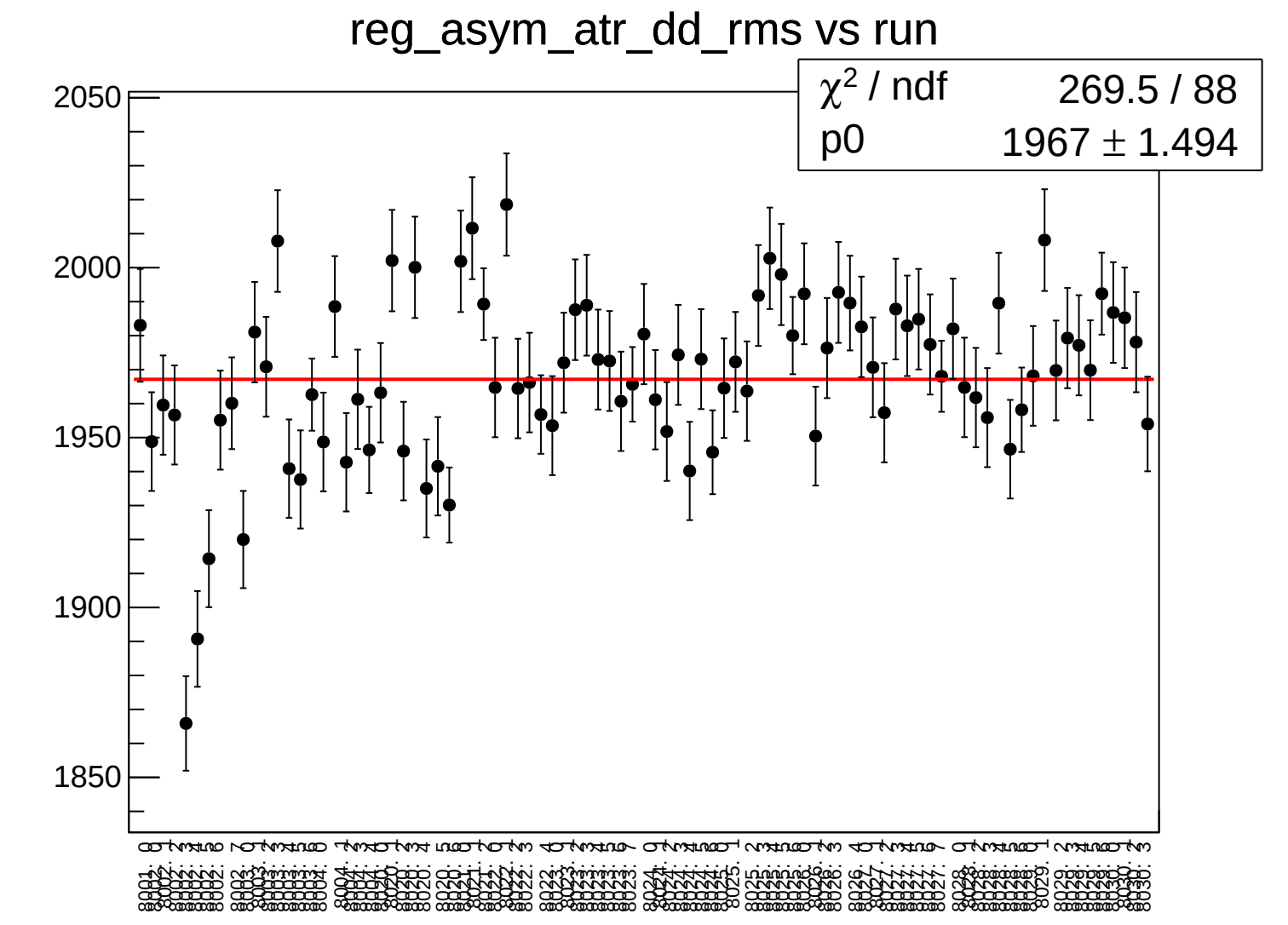

asym_atr_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.66 / 88
p0 3.409e−13 ± 3.563e−13
pull
Entries 89
Mean 53.65
Std Dev 22.61

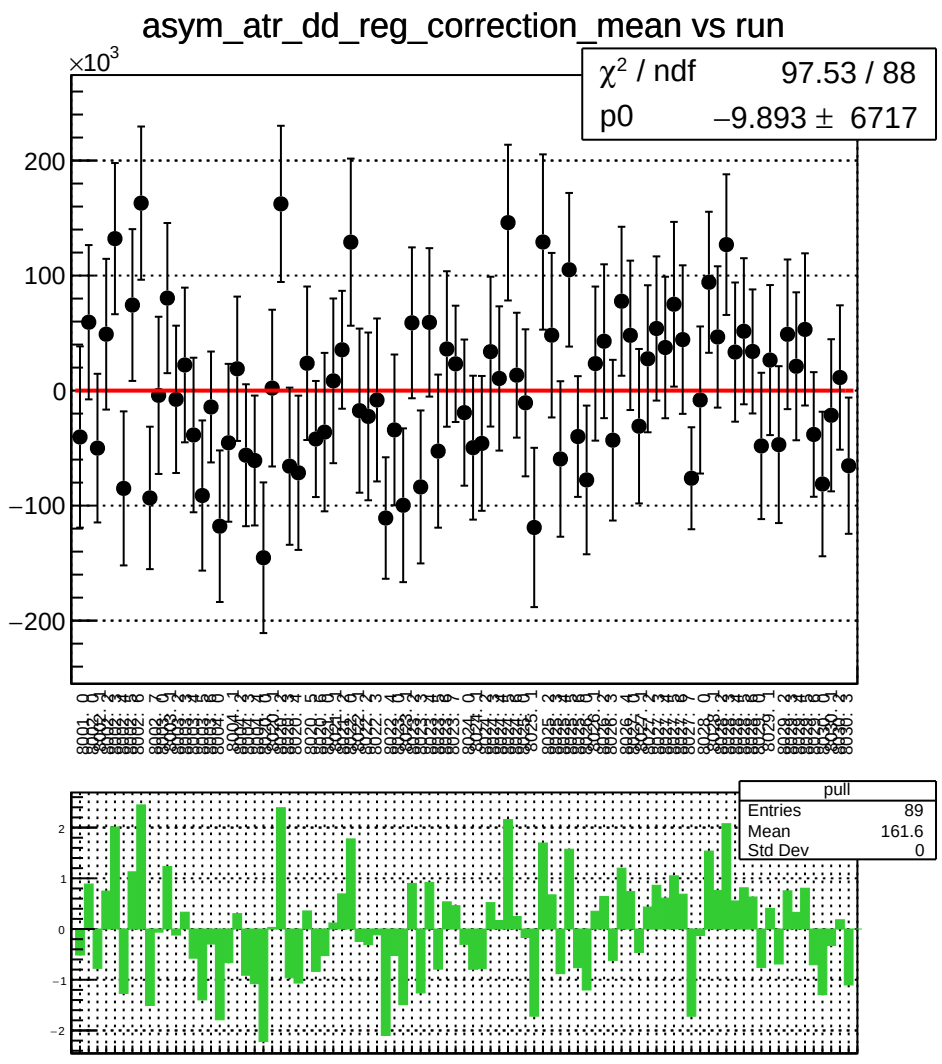

pull1D
Entries 89
Mean −0.1693
Std Dev 0.9779

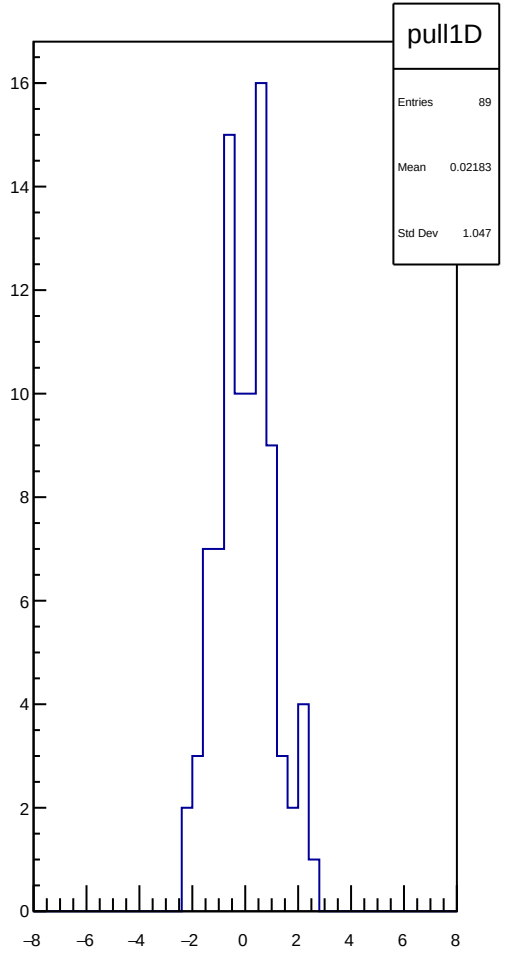

asym_atr_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.179e+05 / 88
p0 2.412e−10 ± 2.519e−13
2.5
2
1.5
1
0.5

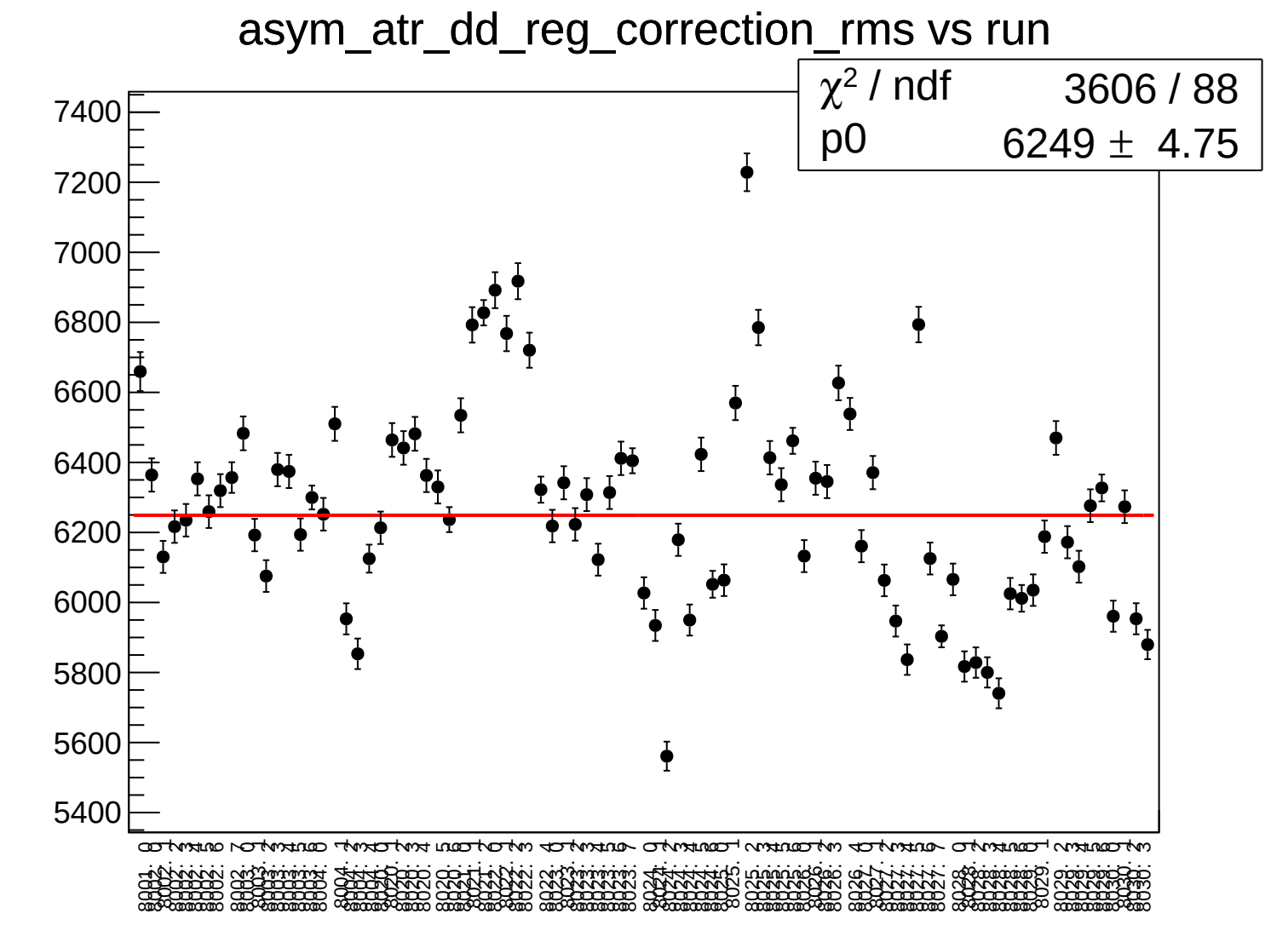

reg_asym_atr_dd_mean vs run
χ² / ndf 92.81 / 88
p0 −3522 ± 2112
pull
Entries 89
Mean 74.14
Std Dev 88.99

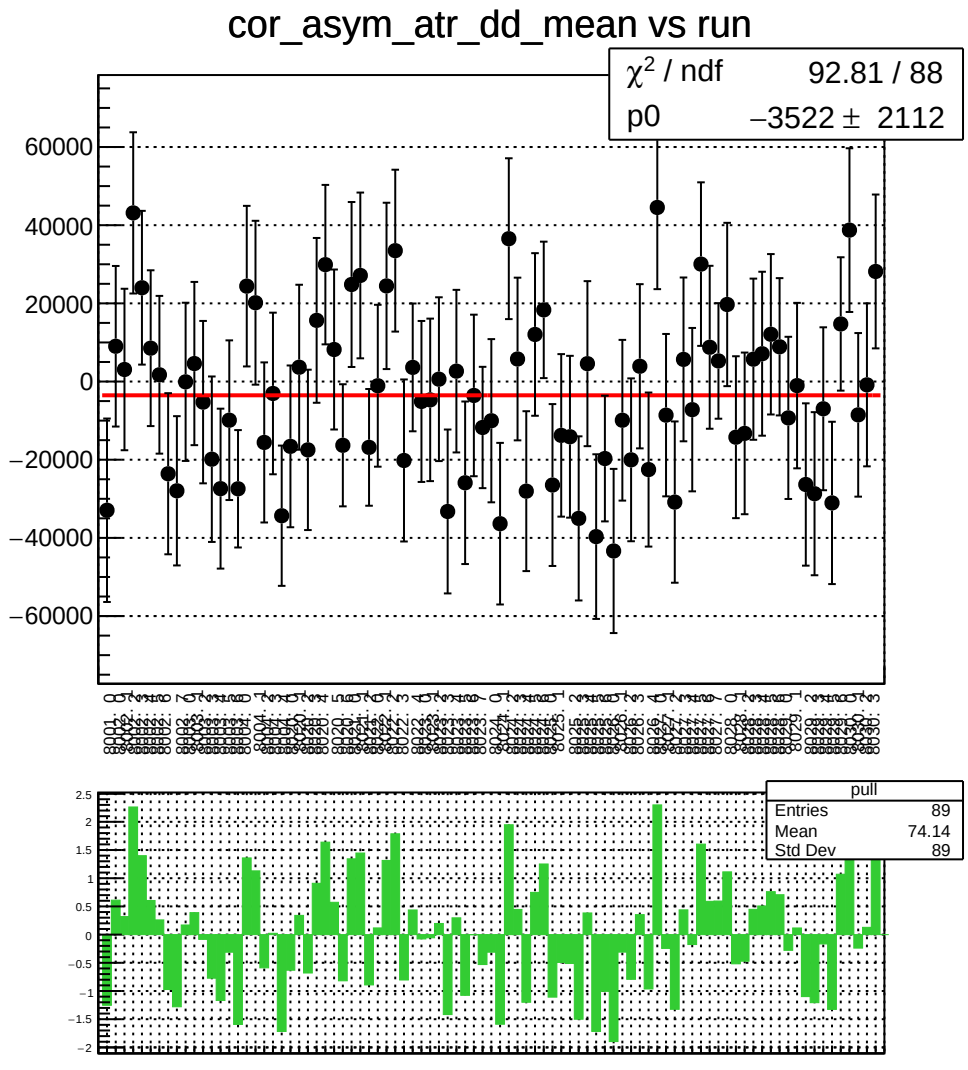

pull1D
Entries 89
Mean 0.01012
Std Dev 1.021

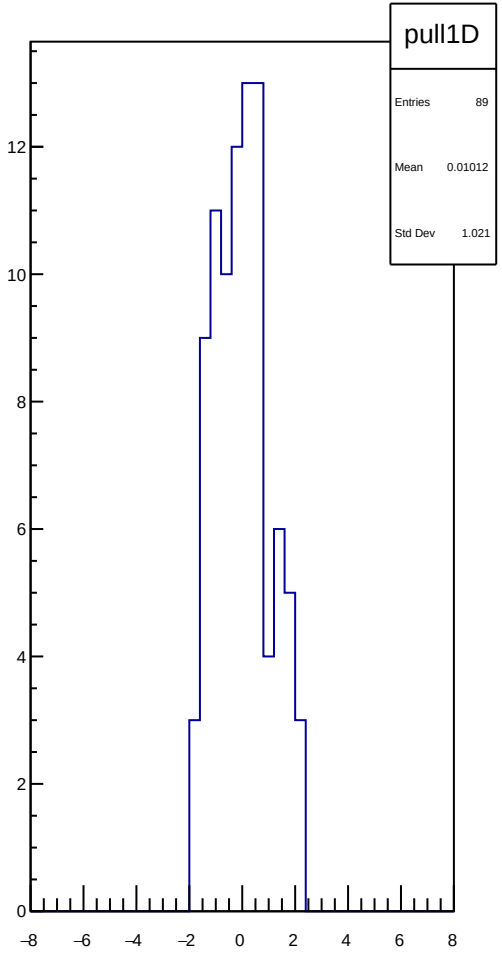

reg_asym_atr_dd_rms vs run
χ² / ndf 269.5 / 88
p0 1967 ± 1.494
2050
2000
1950
1900
1850

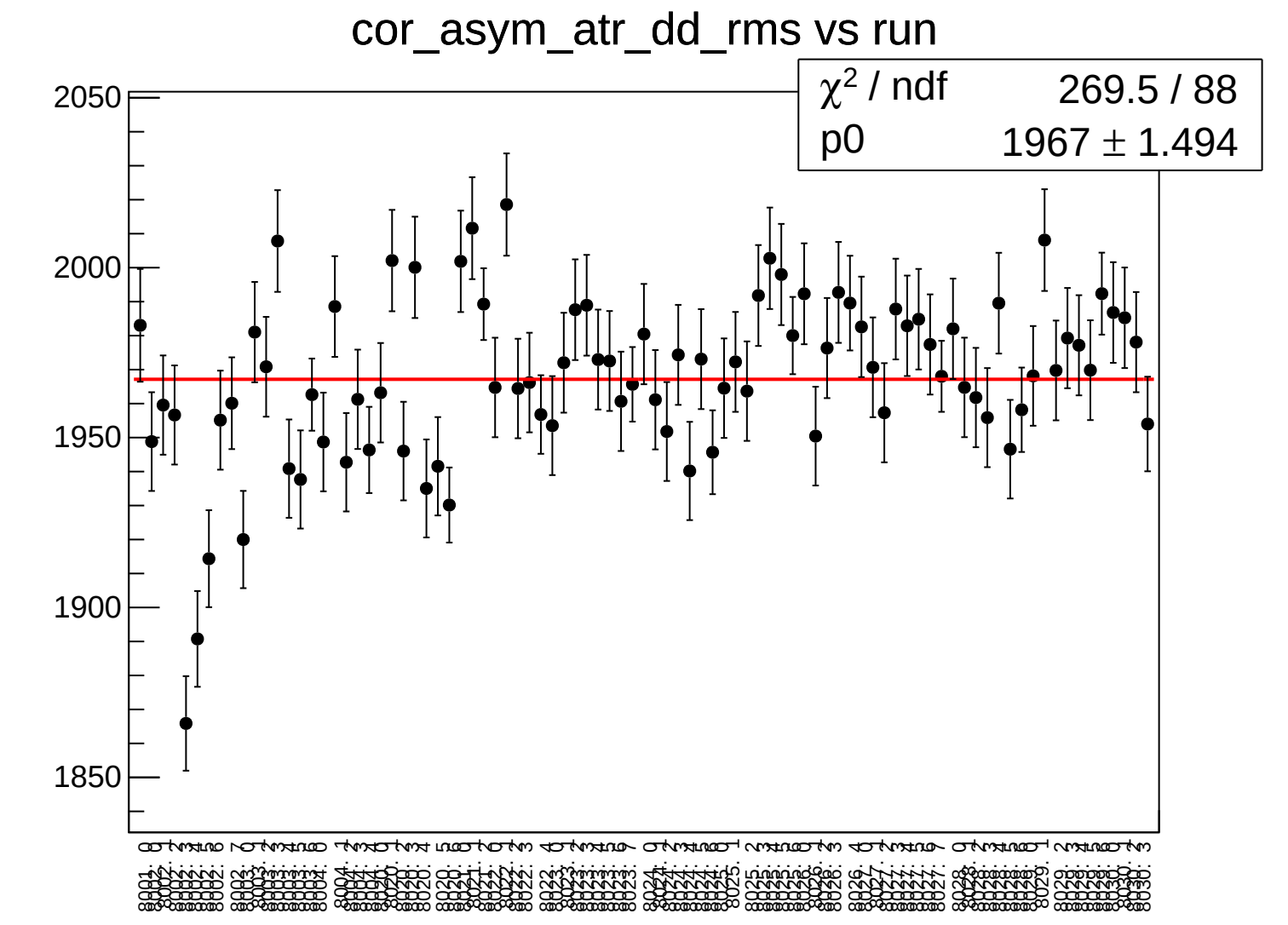

asym_atr_dd_reg_correction_mean vs run
×10^3
χ² / ndf 97.53 / 88
p0 −9.893 ± 6717
200
100
0
−100
−200
pull
Entries 89
Mean 161.6
Std Dev 0
2
1
0
−1
−2

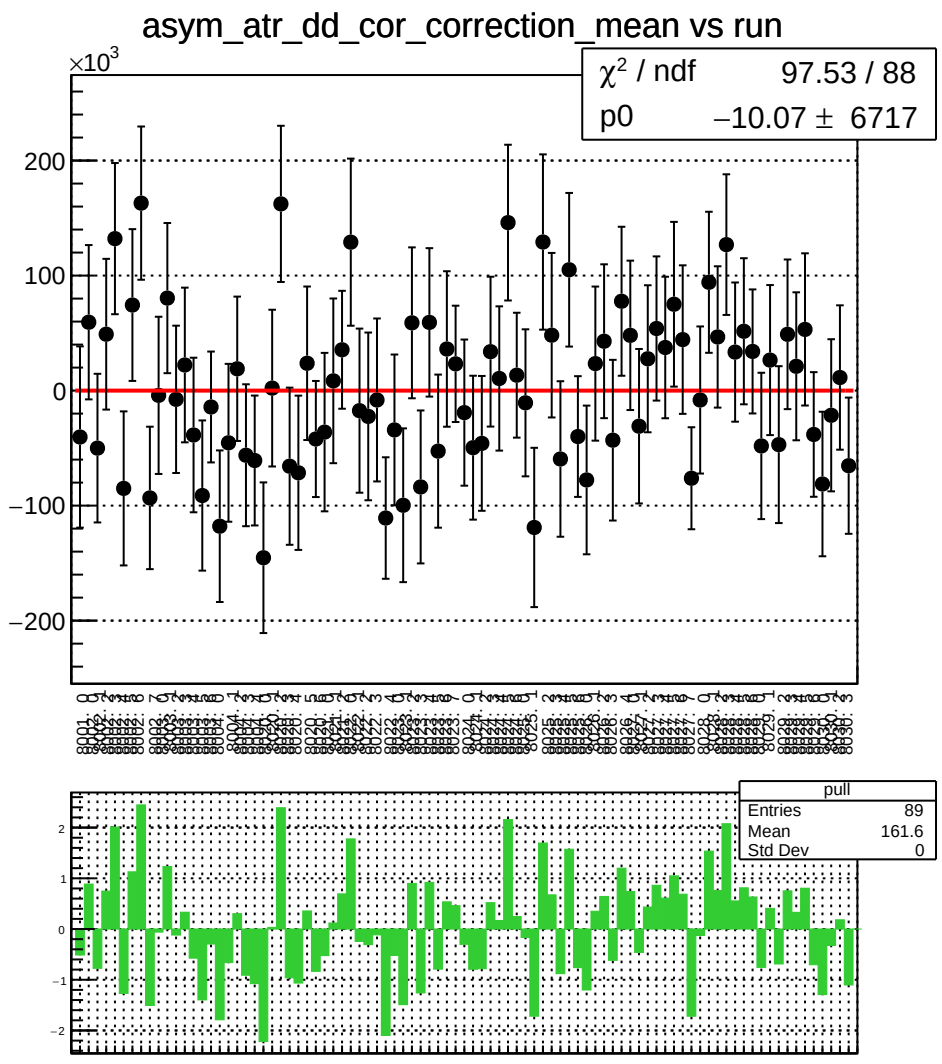

pull1D
Entries 89
Mean 0.02183
Std Dev 1.047
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

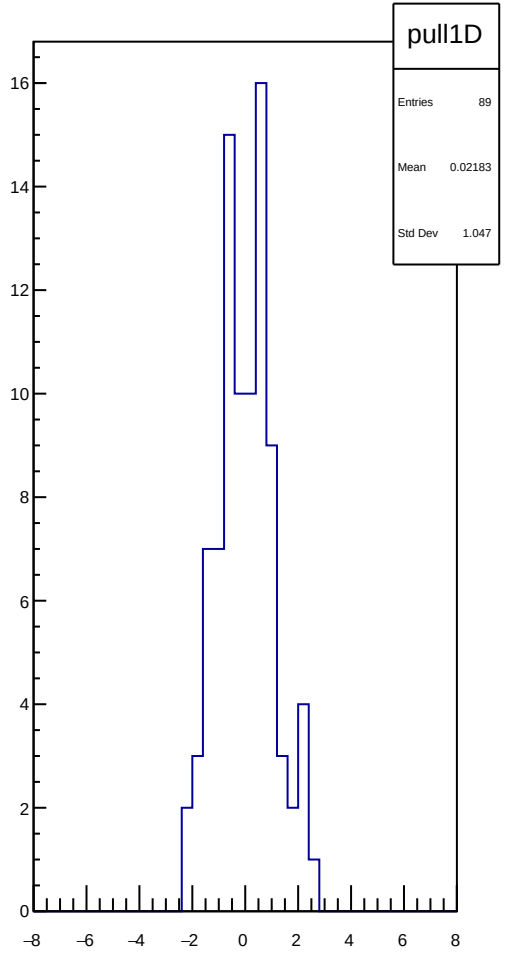

asym_atr_dd_reg_correction_rms vs run
χ² / ndf 3606 / 88
p0 6249 ± 4.75
7400
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400

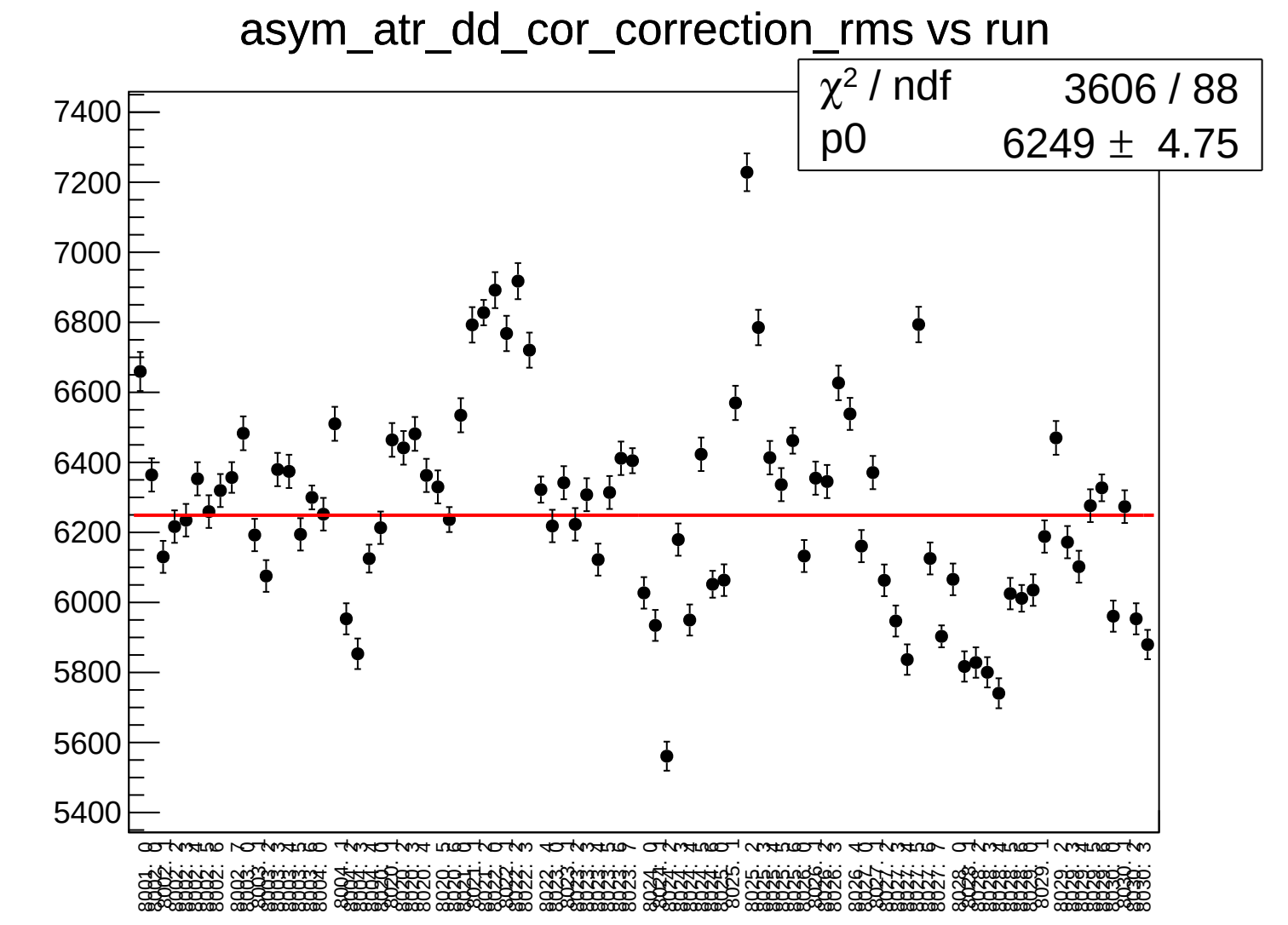

cor_asym_atr_dd_mean vs run
χ² / ndf 92.81 / 88
p0 −3522 ± 2112
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 74.14
Std Dev 89
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

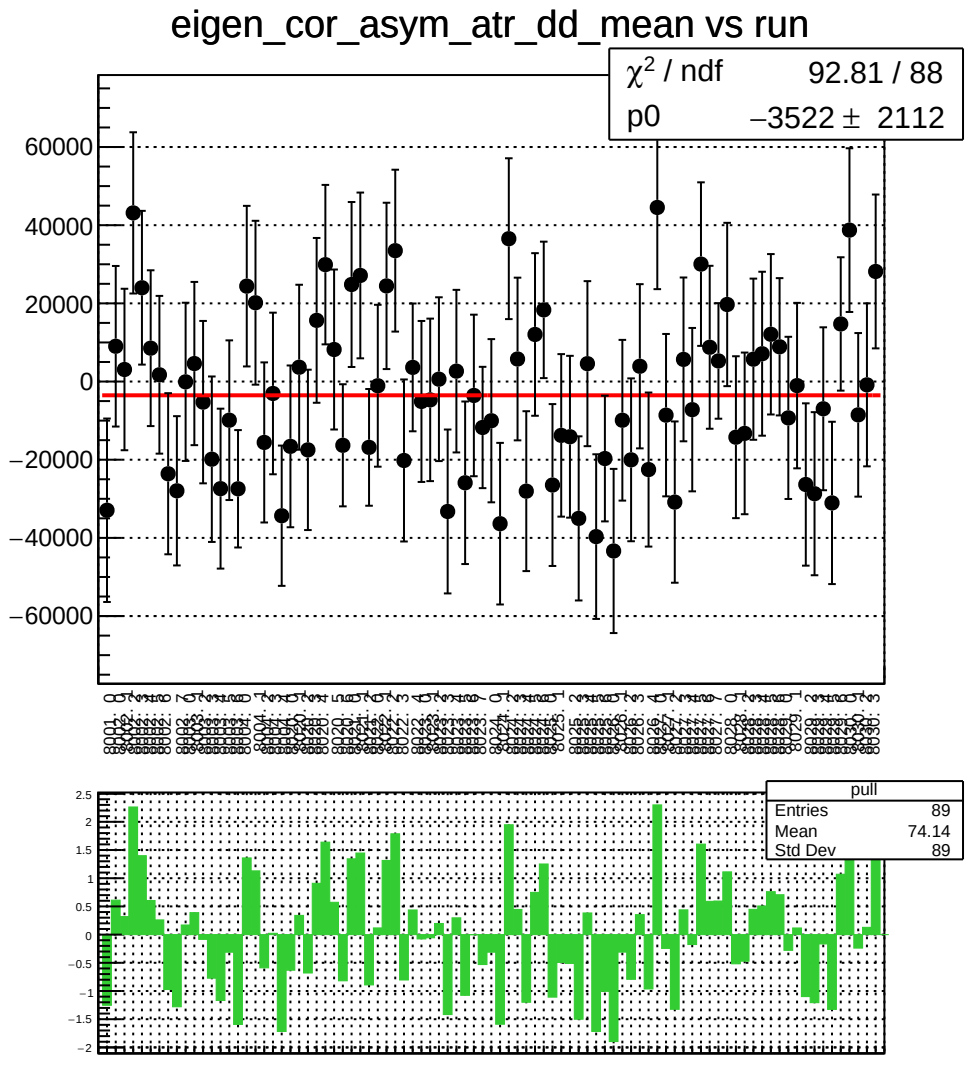

pull1D
Entries 89
Mean 0.01012
Std Dev 1.021
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

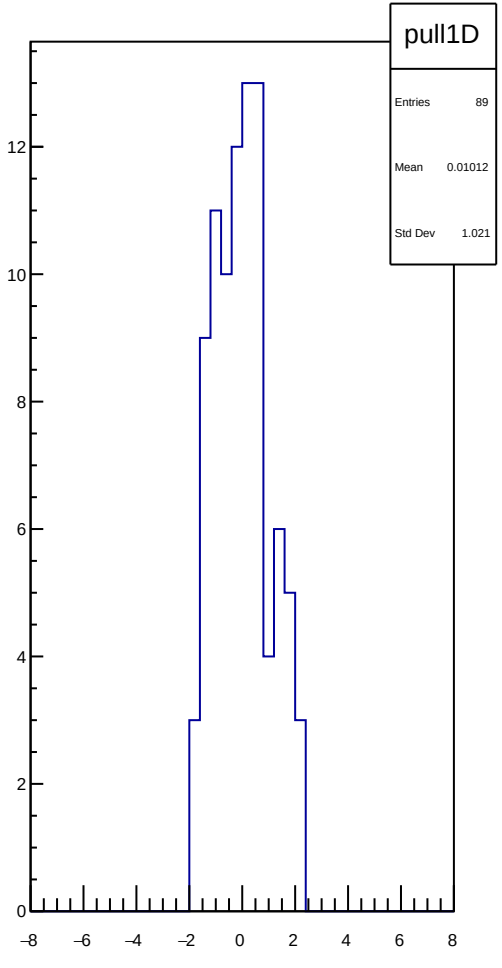

cor_asym_atr_dd_rms vs run
χ² / ndf 269.5 / 88
p0 1967 ± 1.494
2050
2000
1950
1900
1850


asym_atr_dd_cor_correction_mean vs run
×10^3
χ² / ndf 97.53 / 88
p0 −10.07 ± 6717
200
100
0
−100
−200
pull
Entries 89
Mean 161.6
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 89
Mean 0.02183
Std Dev 1.047
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr_dd_cor_correction_rms vs run
χ² / ndf 3606 / 88
p0 6249 ± 4.75
7400
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400


eigen_cor_asym_atr_dd_mean vs run
χ² / ndf 92.81 / 88
p0 −3522 ± 2112
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 74.14
Std Dev 89
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 89
Mean 0.01012
Std Dev 1.021
12
10
8
6
4
2
0
−8
−6
−4
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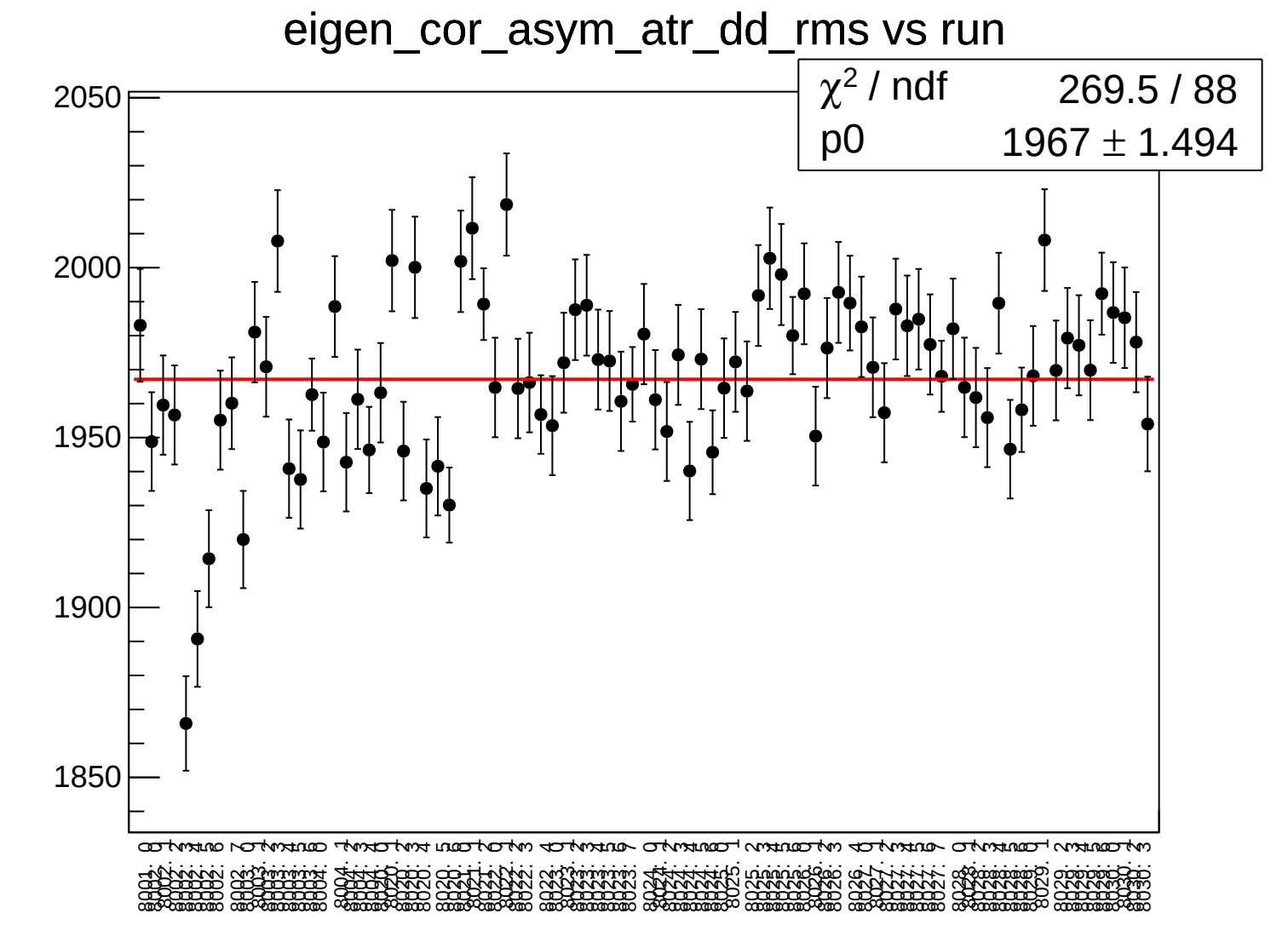
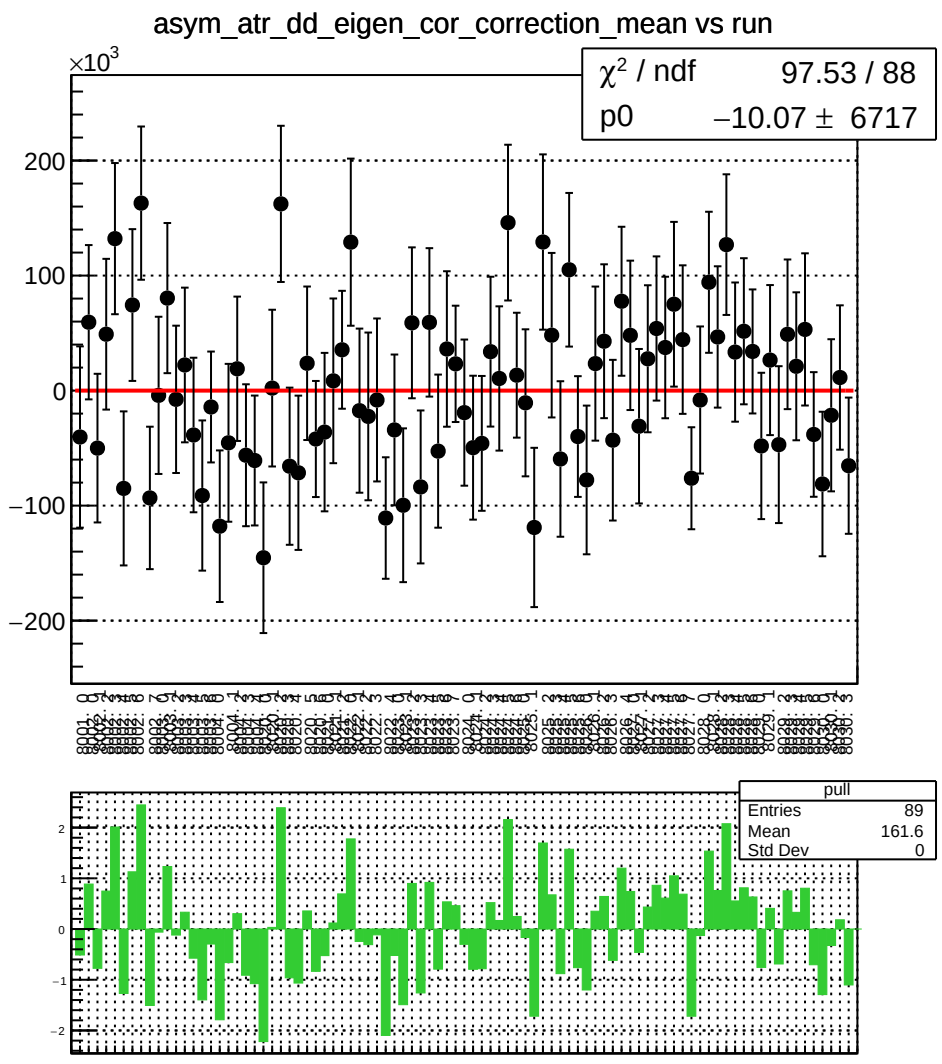
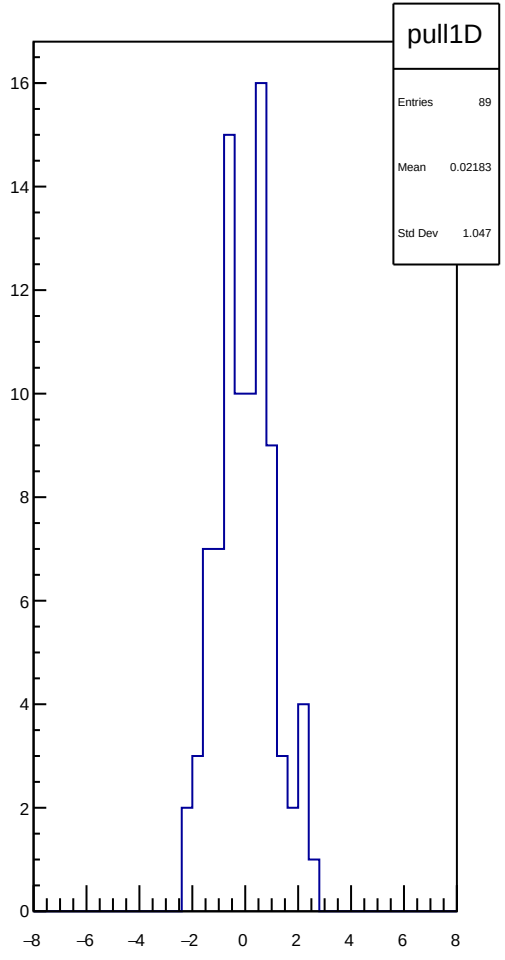
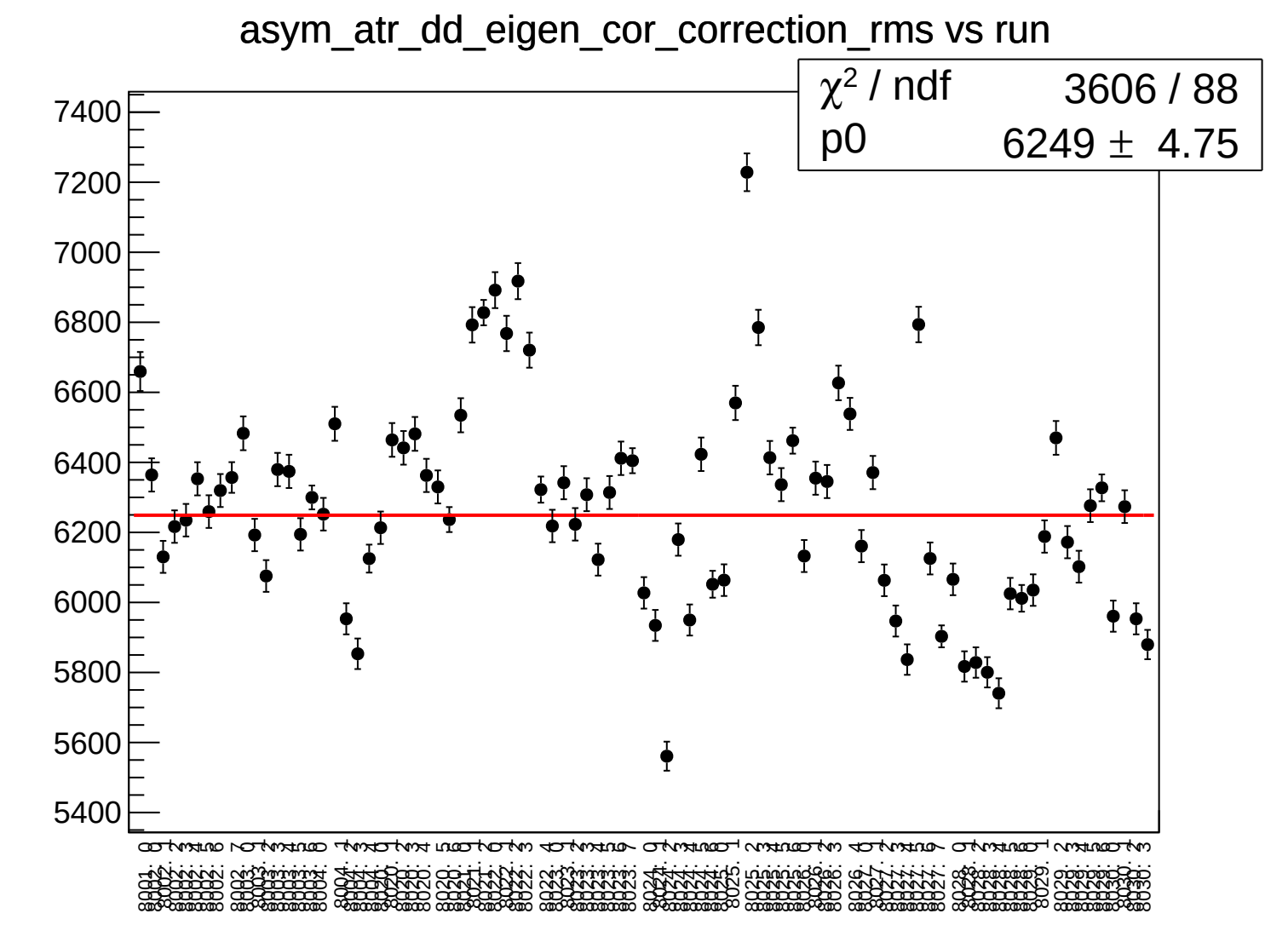
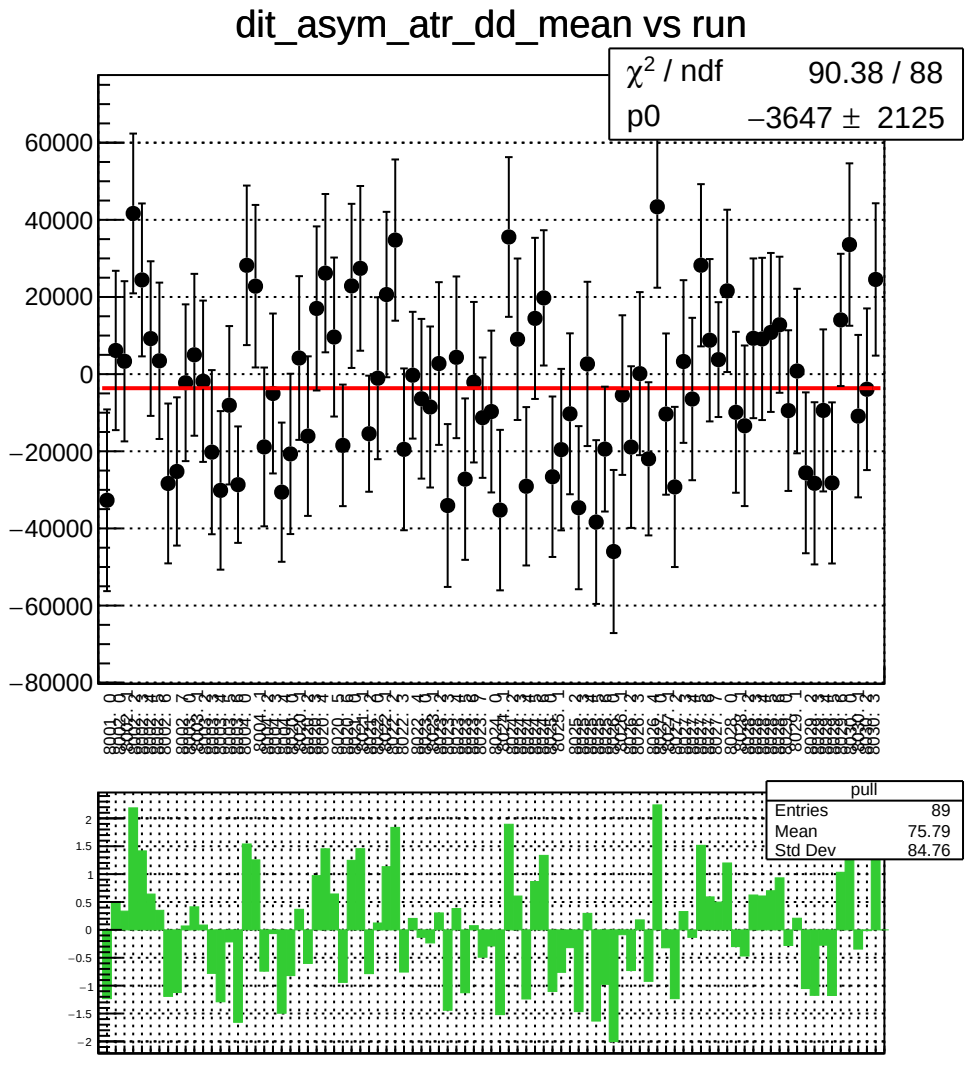
0
2
4
6
8

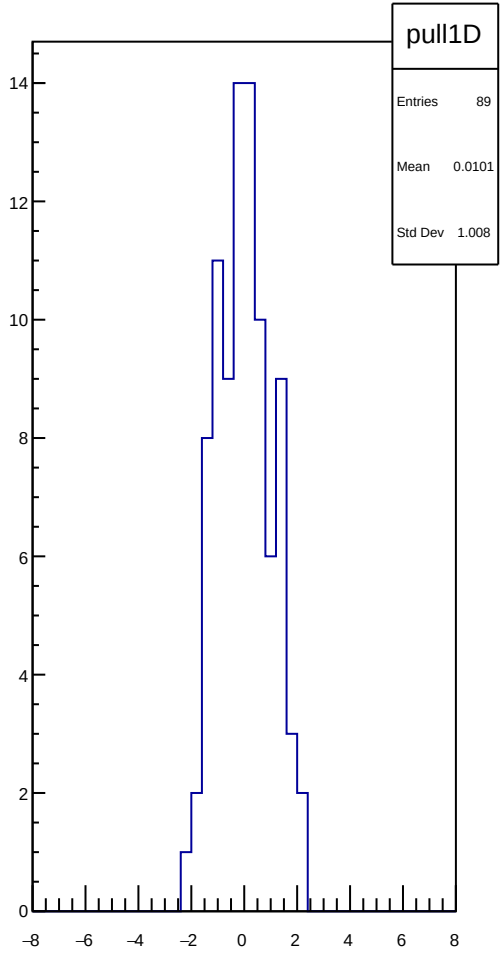

eigen_cor_asym_atr_dd_rms vs run
χ² / ndf 269.5 / 88
p0 1967 ± 1.494
2050
2000
1950
1900
1850

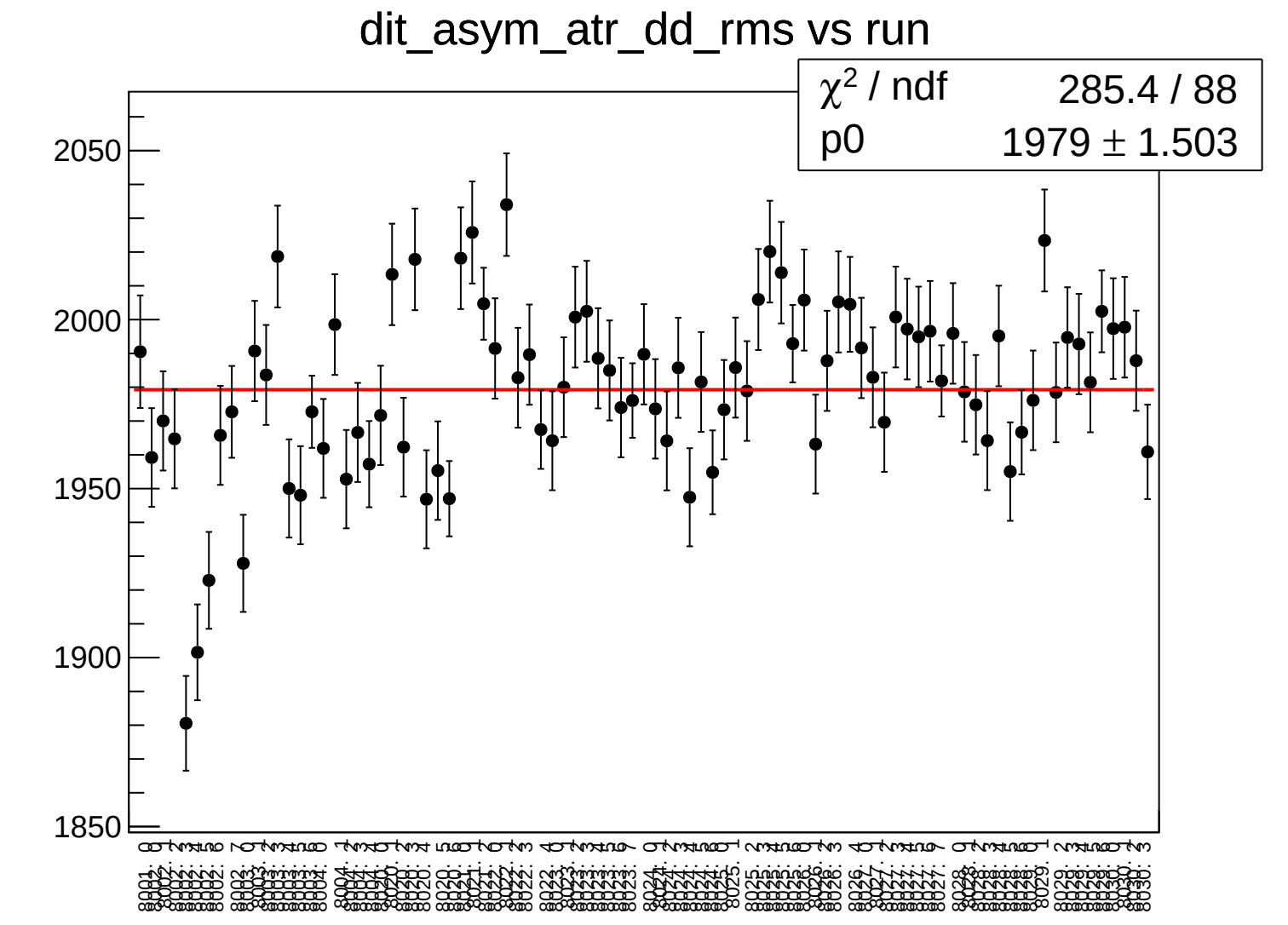

asym_atr_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 97.53 / 88
p0 −10.07 ± 6717
200
100
0
−100
−200
pull
Entries 89
Mean 161.6
Std Dev 0
2
1
0
−1
−2

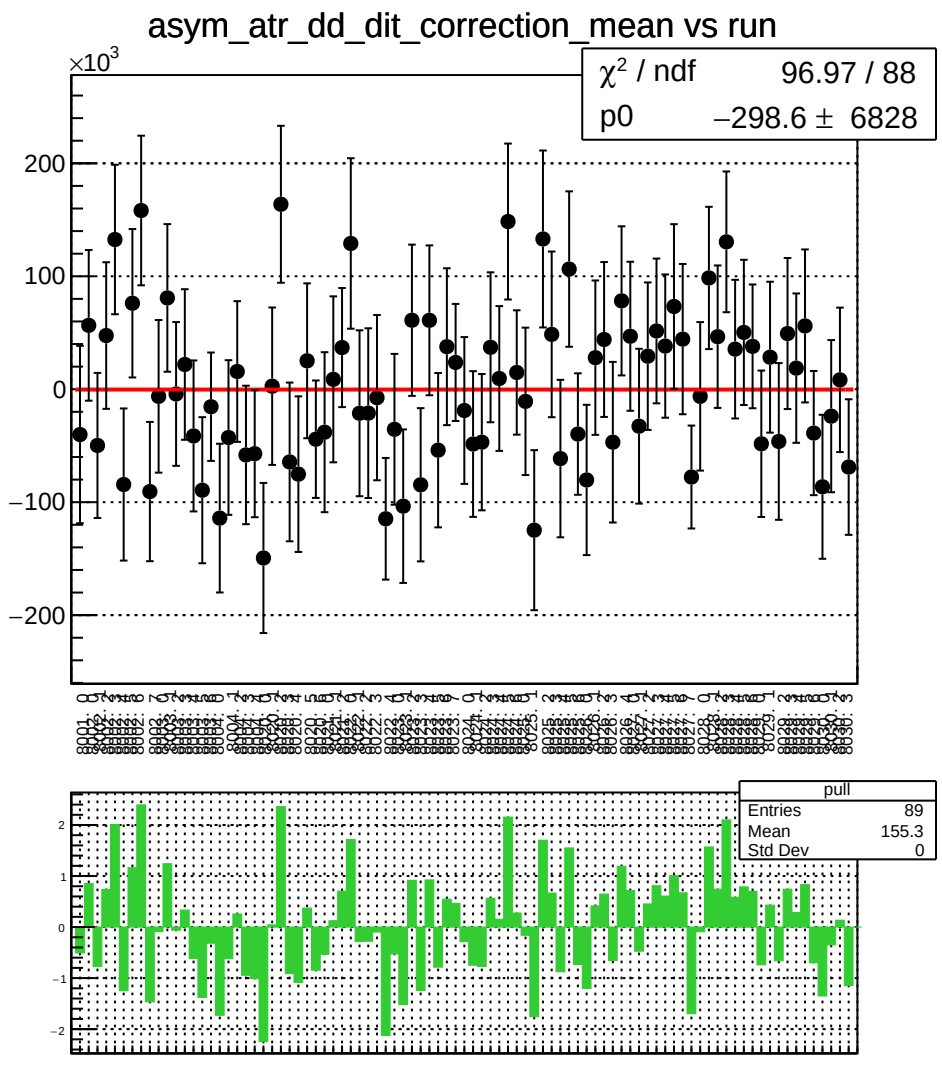

pull1D
Entries 89
Mean 0.02183
Std Dev 1.047
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

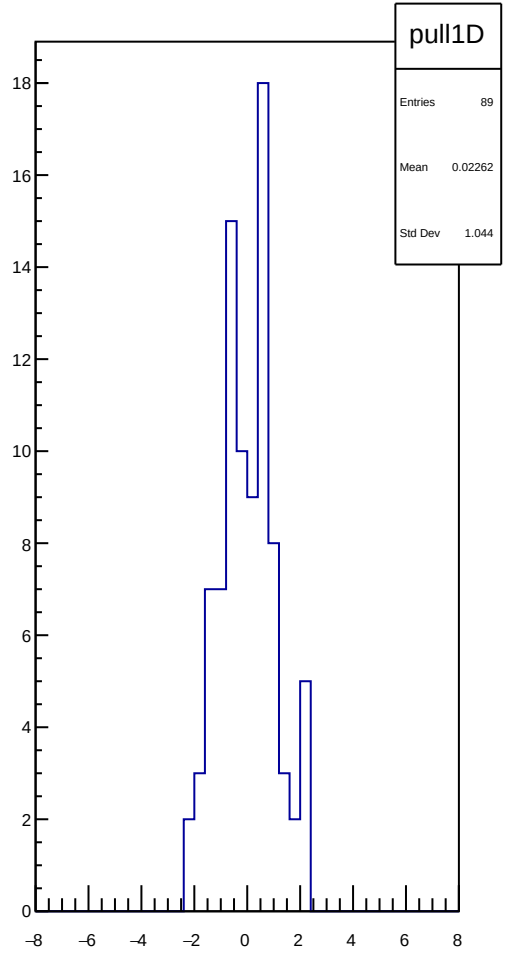

asym_atr_dd_eigen_cor_correction_rms vs run
χ² / ndf 3606 / 88
p0 6249 ± 4.75
7400
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400

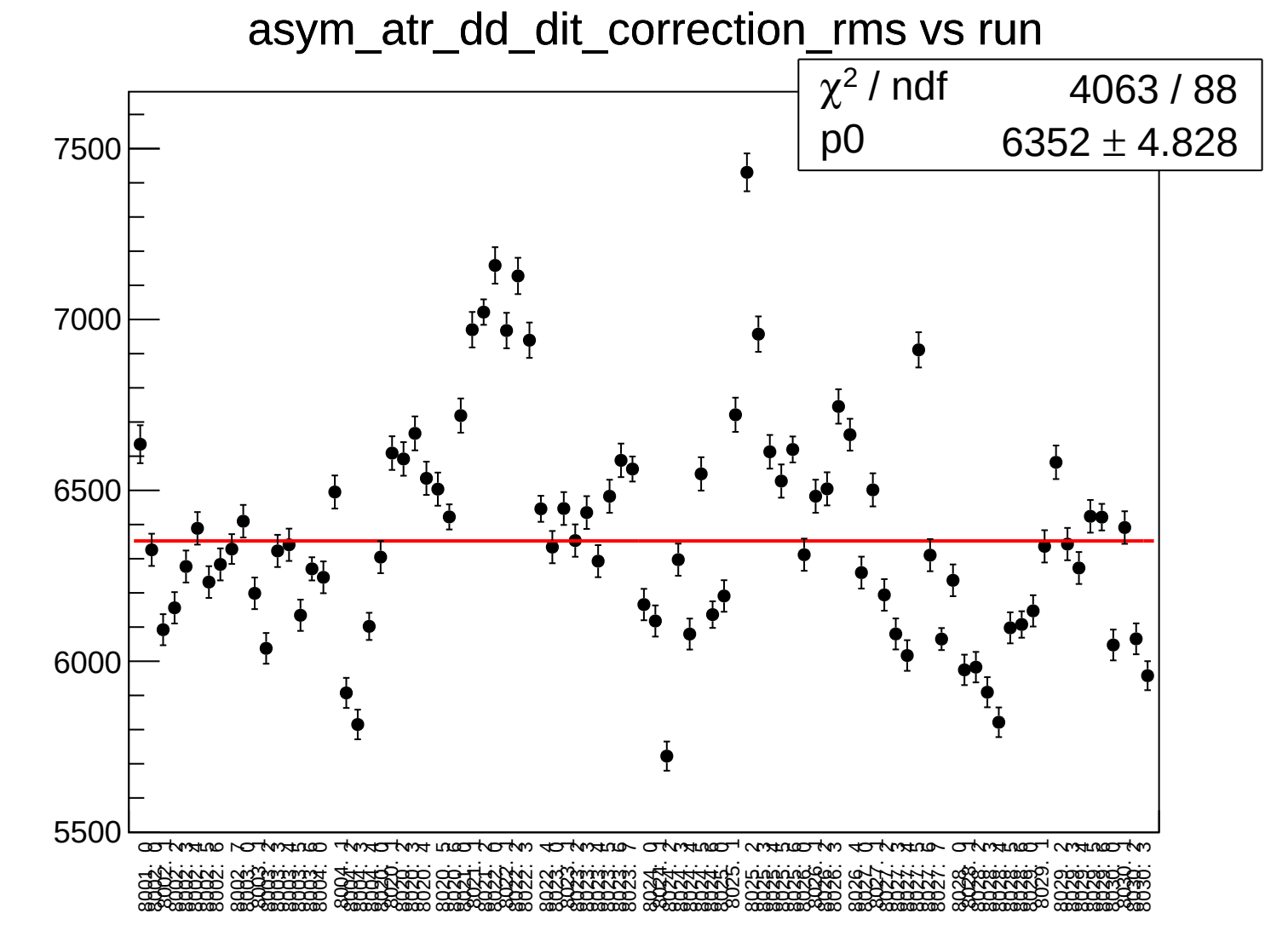

dit_asym_atr_dd_mean vs run
χ² / ndf 90.38 / 88
p0 −3647 ± 2125
pull
Entries 89
Mean 75.79
Std Dev 84.76

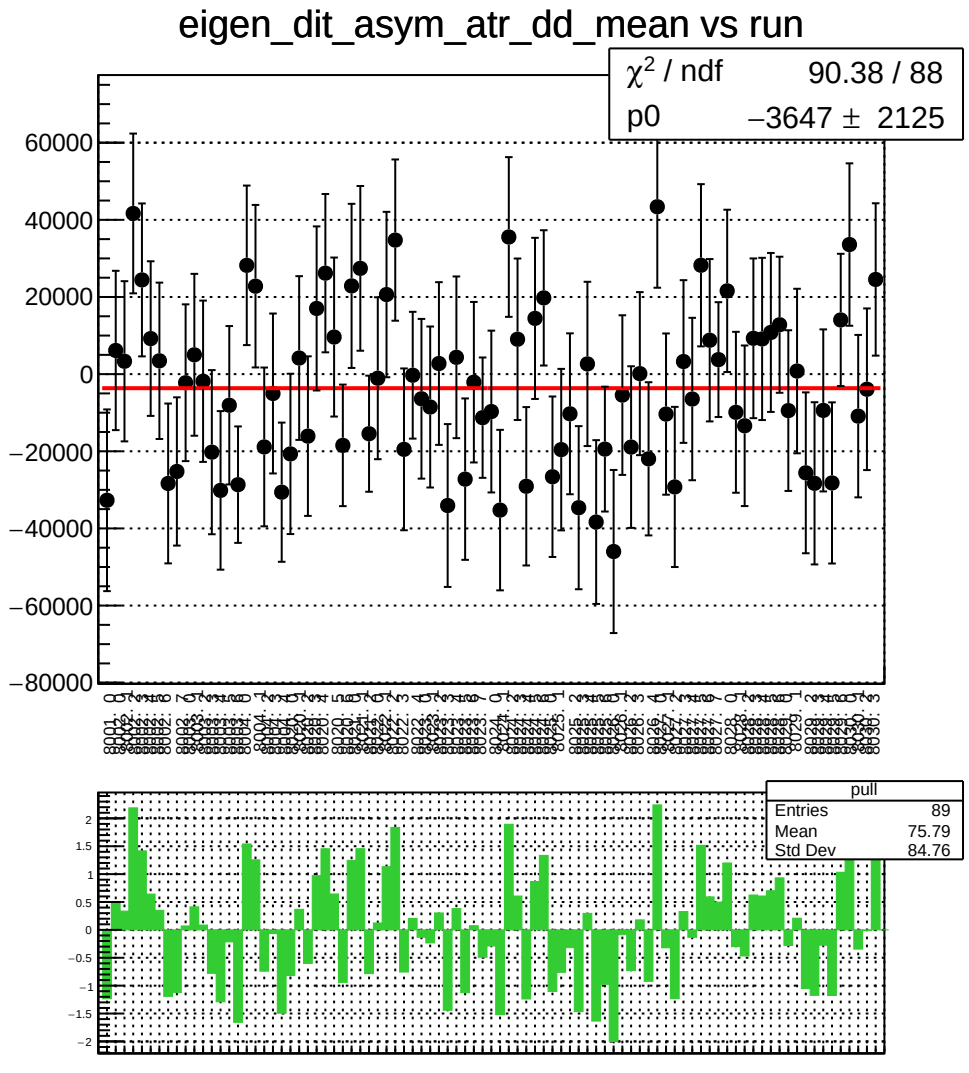

pull1D
Entries 89
Mean 0.0101
Std Dev 1.008

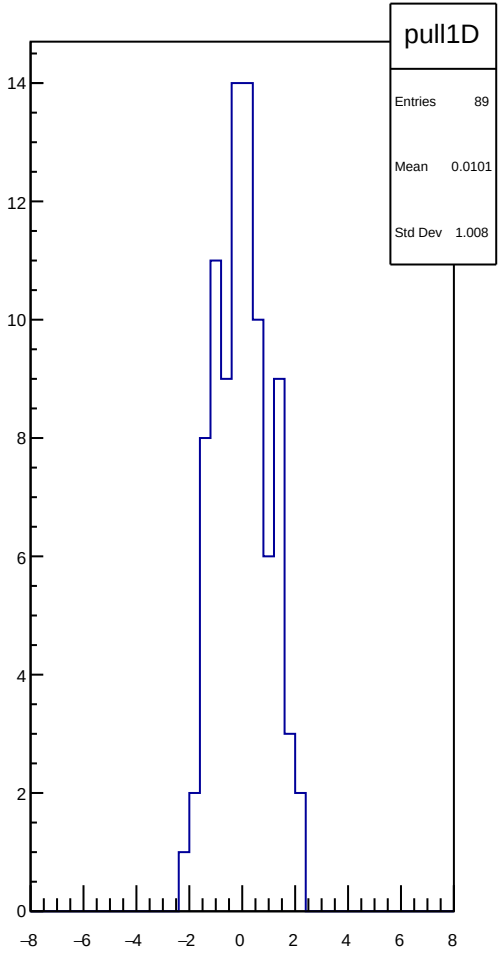

dit_asym_atr_dd_rms vs run
χ² / ndf 285.4 / 88
p0 1979 ± 1.503
2050
2000
1950
1900
1850

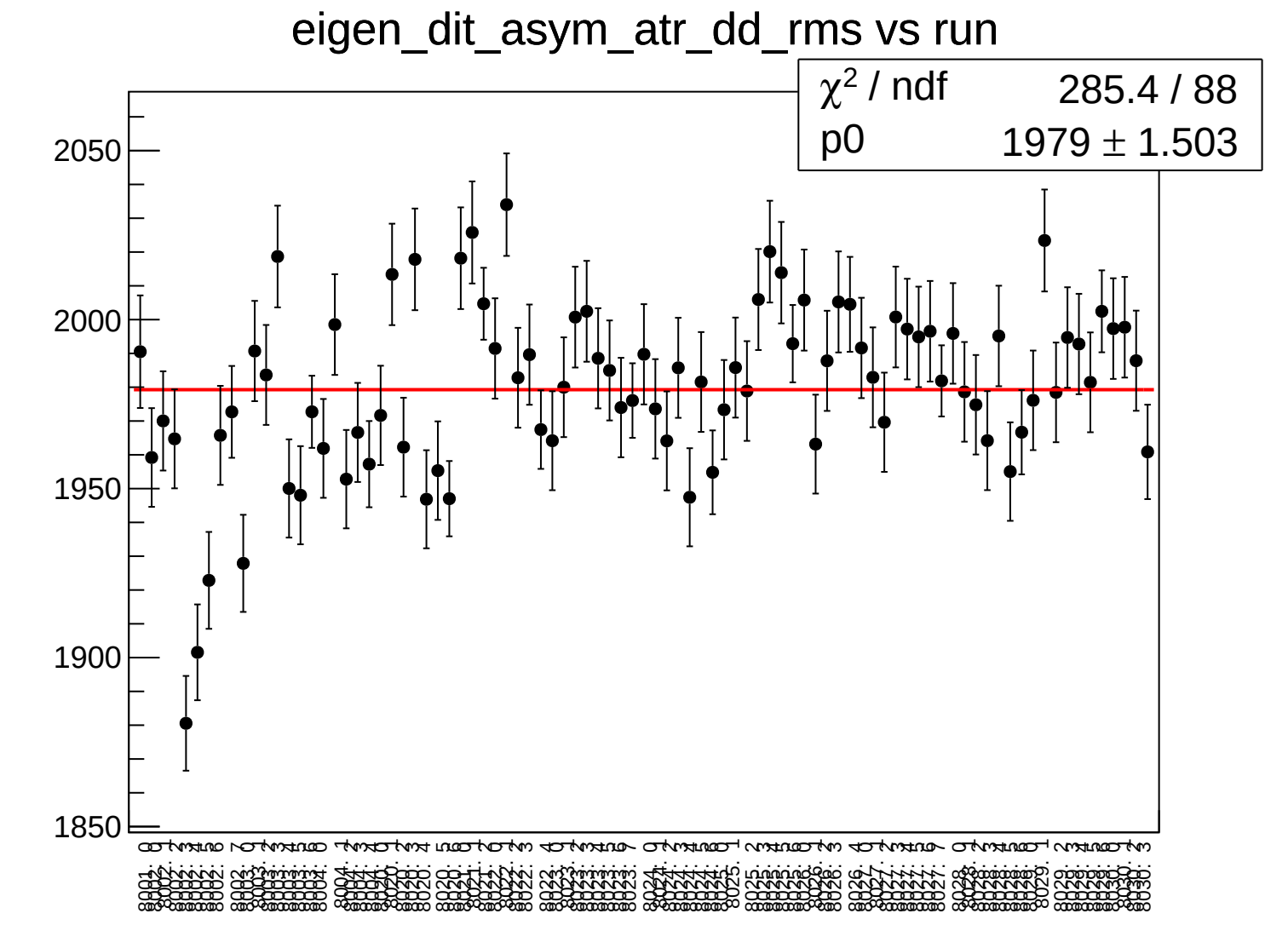

asym_atr_dd_dit_correction_mean vs run
×10^3
χ² / ndf 96.97 / 88
p0 −298.6 ± 6828
200
100
0
−100
−200
pull
Entries 89
Mean 155.3
Std Dev 0
2
1
0
−1
−2

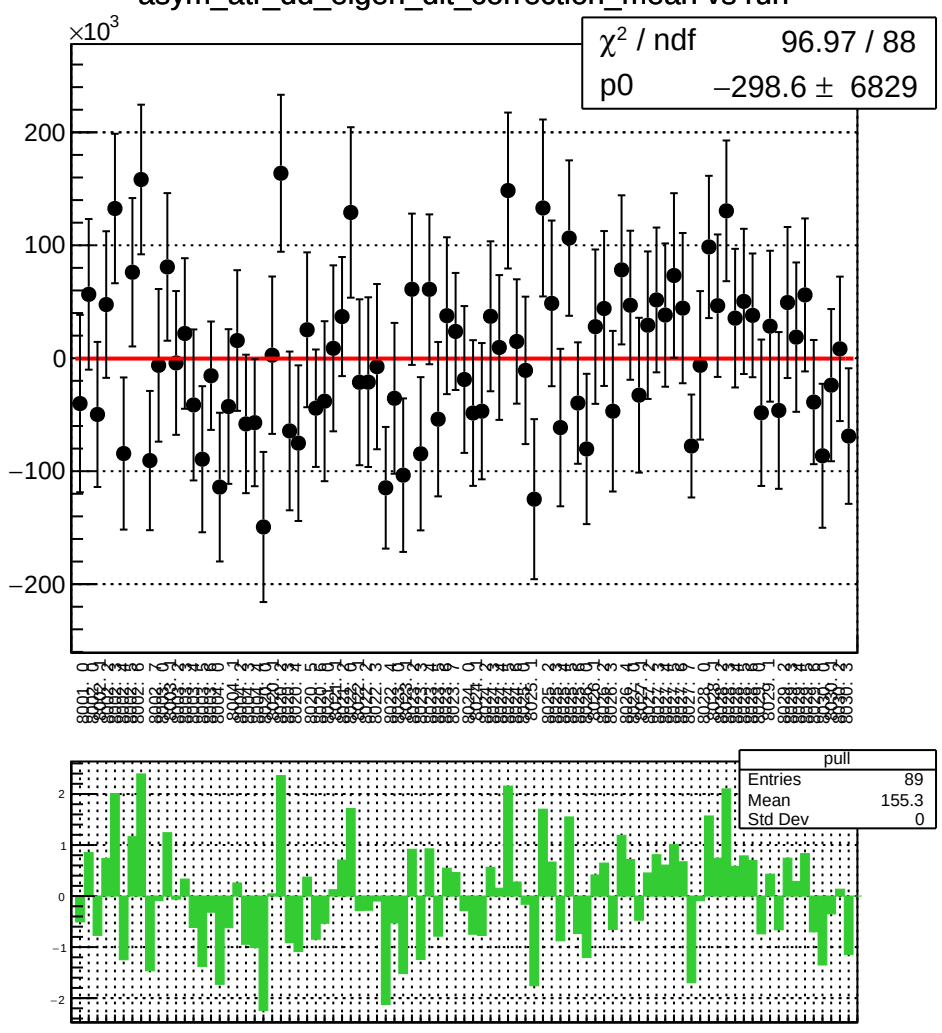

pull1D
Entries 89
Mean 0.02262
Std Dev 1.044
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

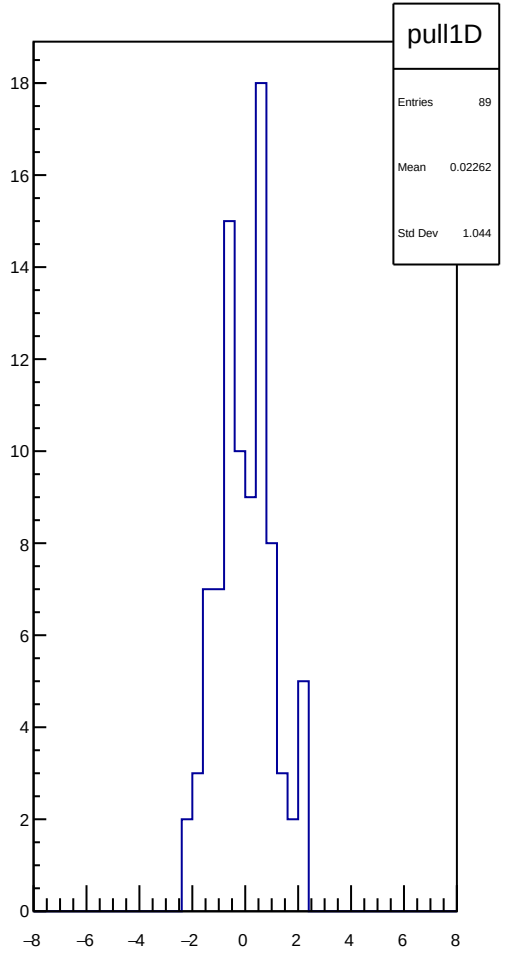

asym_atr_dd_dit_correction_rms vs run
χ² / ndf 4063 / 88
p0 6352 ± 4.828
7500
7000
6500
6000
5500

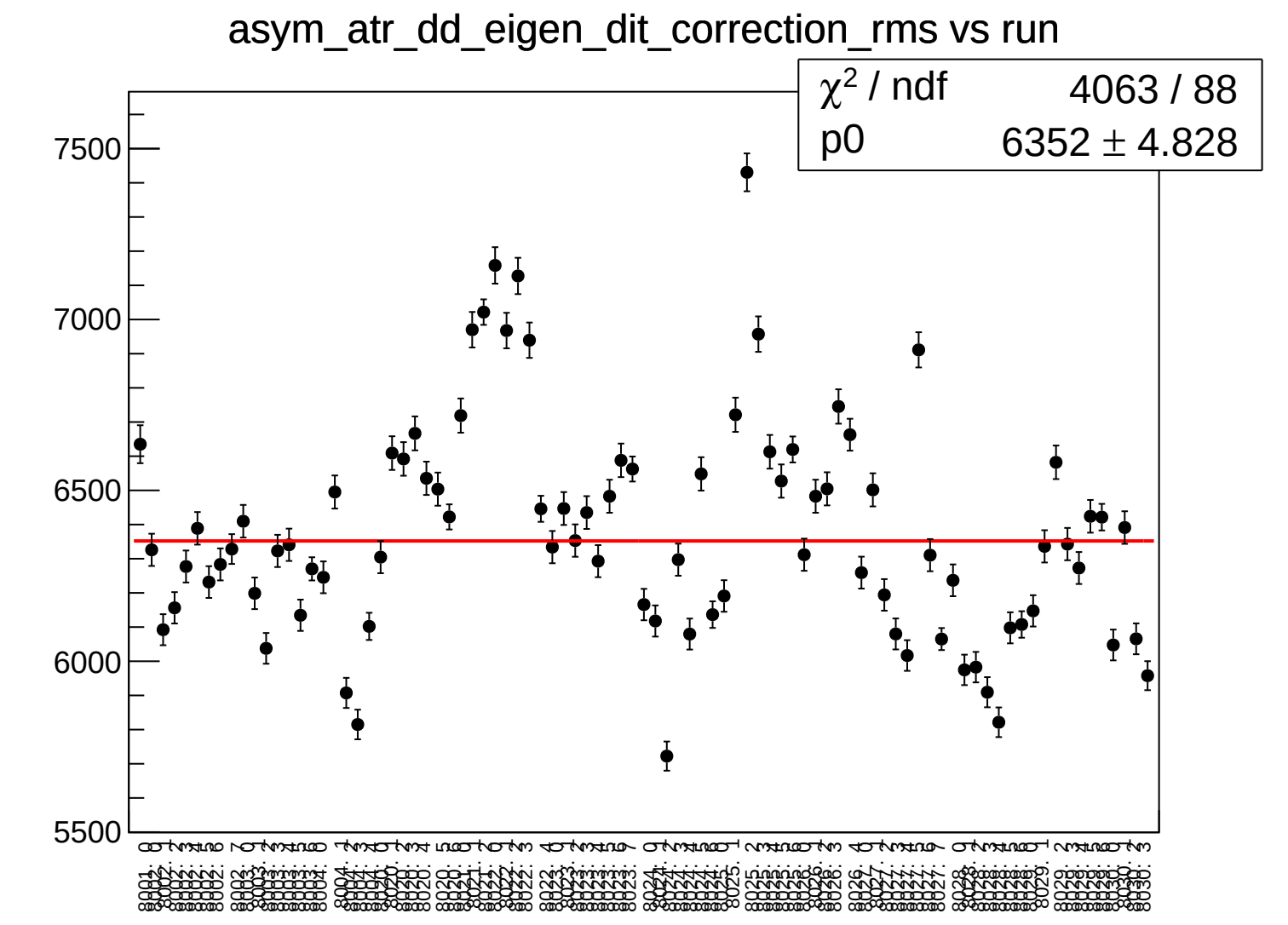

eigen_dit_asym_atr_dd_mean vs run
χ² / ndf 90.38 / 88
p0 −3647 ± 2125
pull
Entries 89
Mean 75.79
Std Dev 84.76

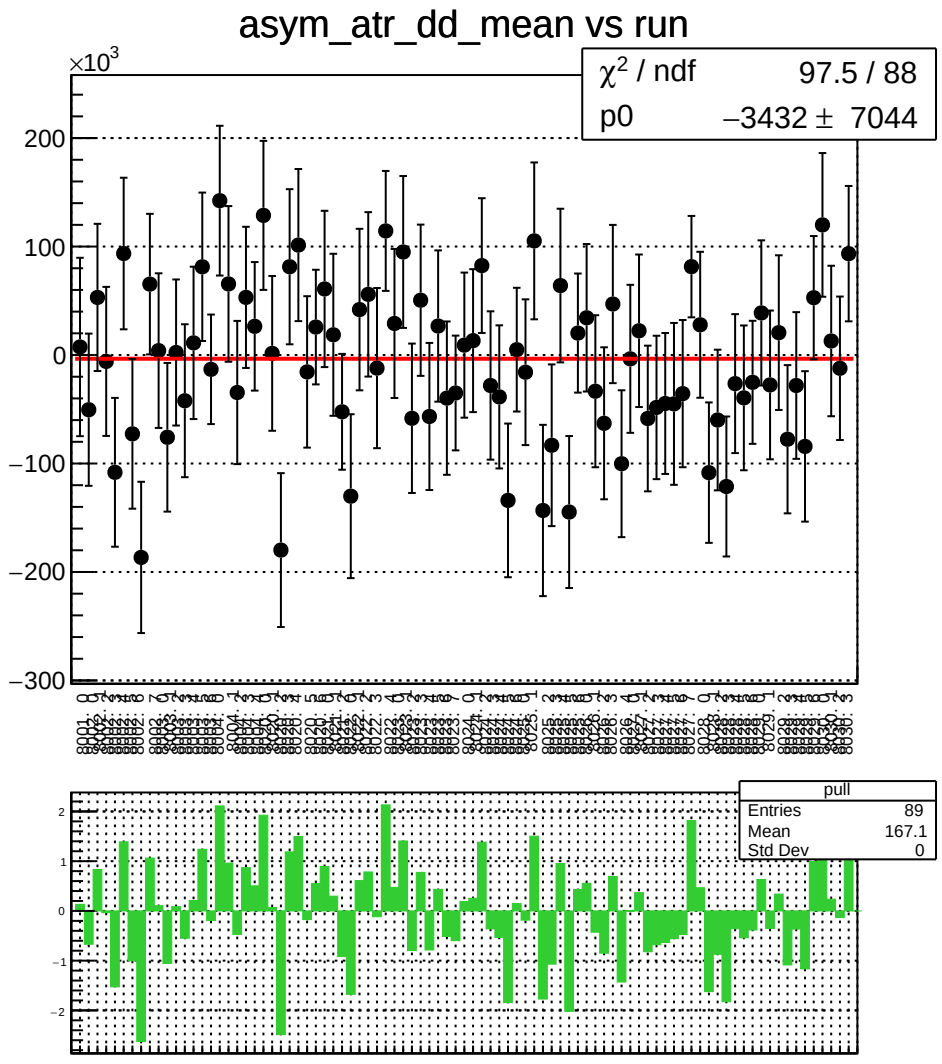

pull1D
Entries 89
Mean 0.0101
Std Dev 1.008

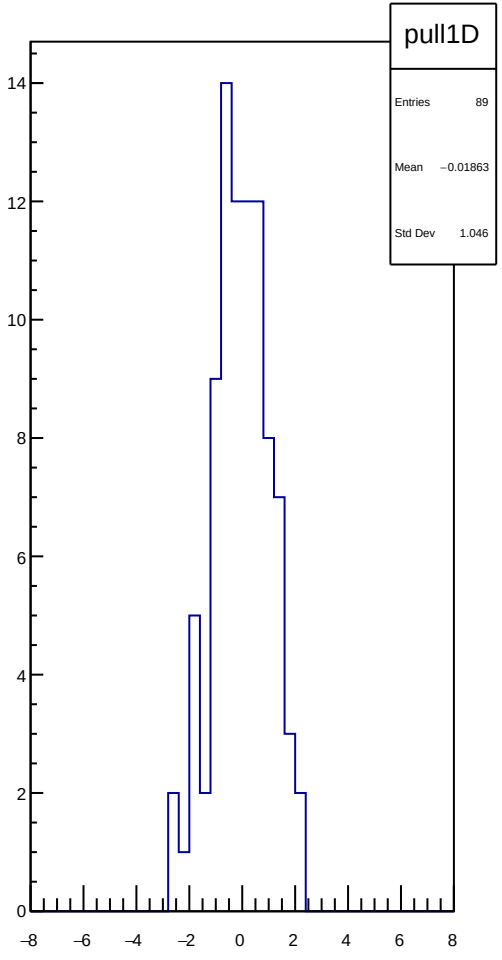

eigen_dit_asym_atr_dd_rms vs run
χ² / ndf 285.4 / 88
p0 1979 ± 1.503
2050
2000
1950
1900
1850

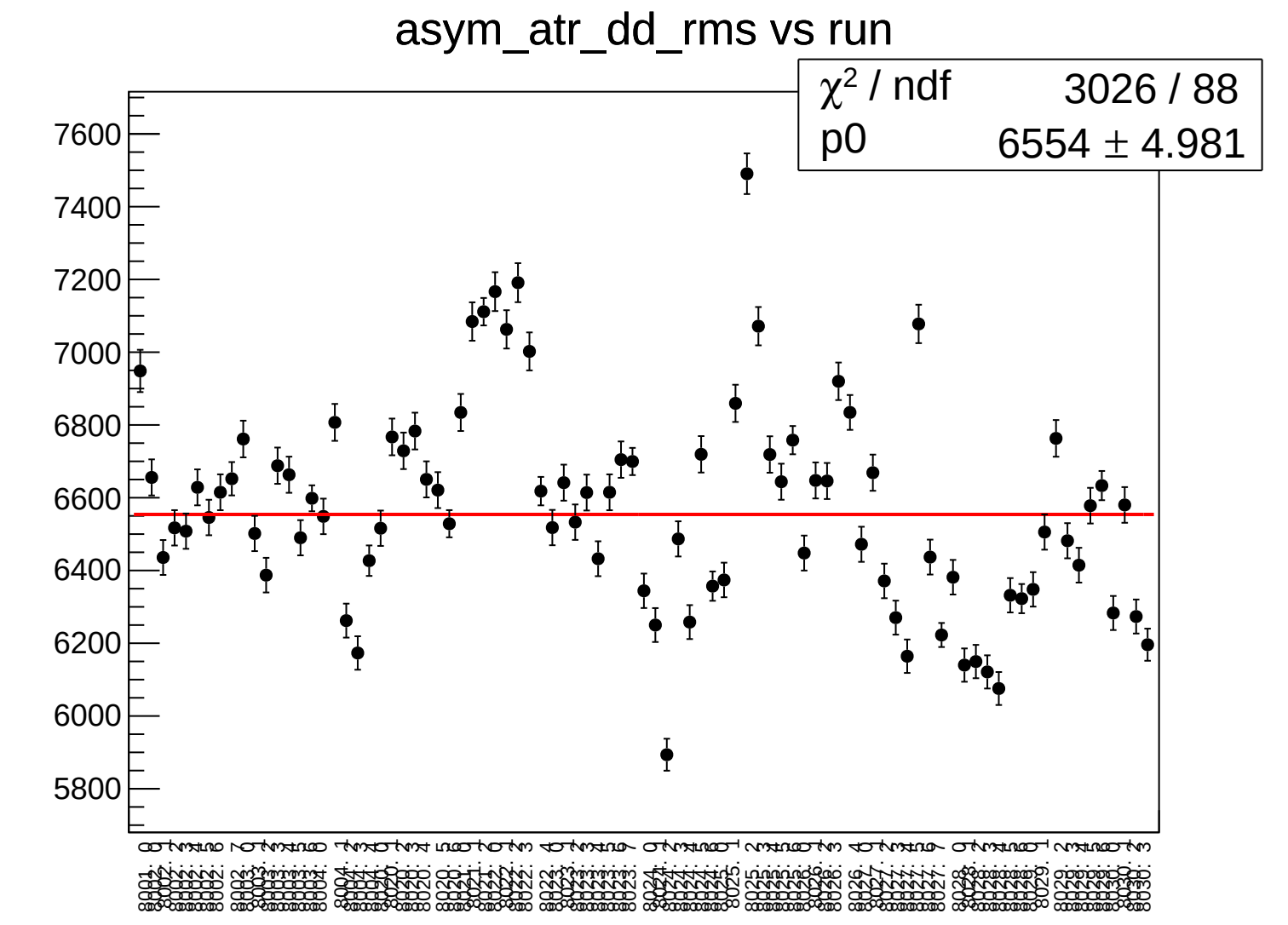

asym_atr_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 96.97 / 88
p0 −298.6 ± 6829
200
100
0
−100
−200
pull
Entries 89
Mean 155.3
Std Dev 0
2
1
0
−1
−2

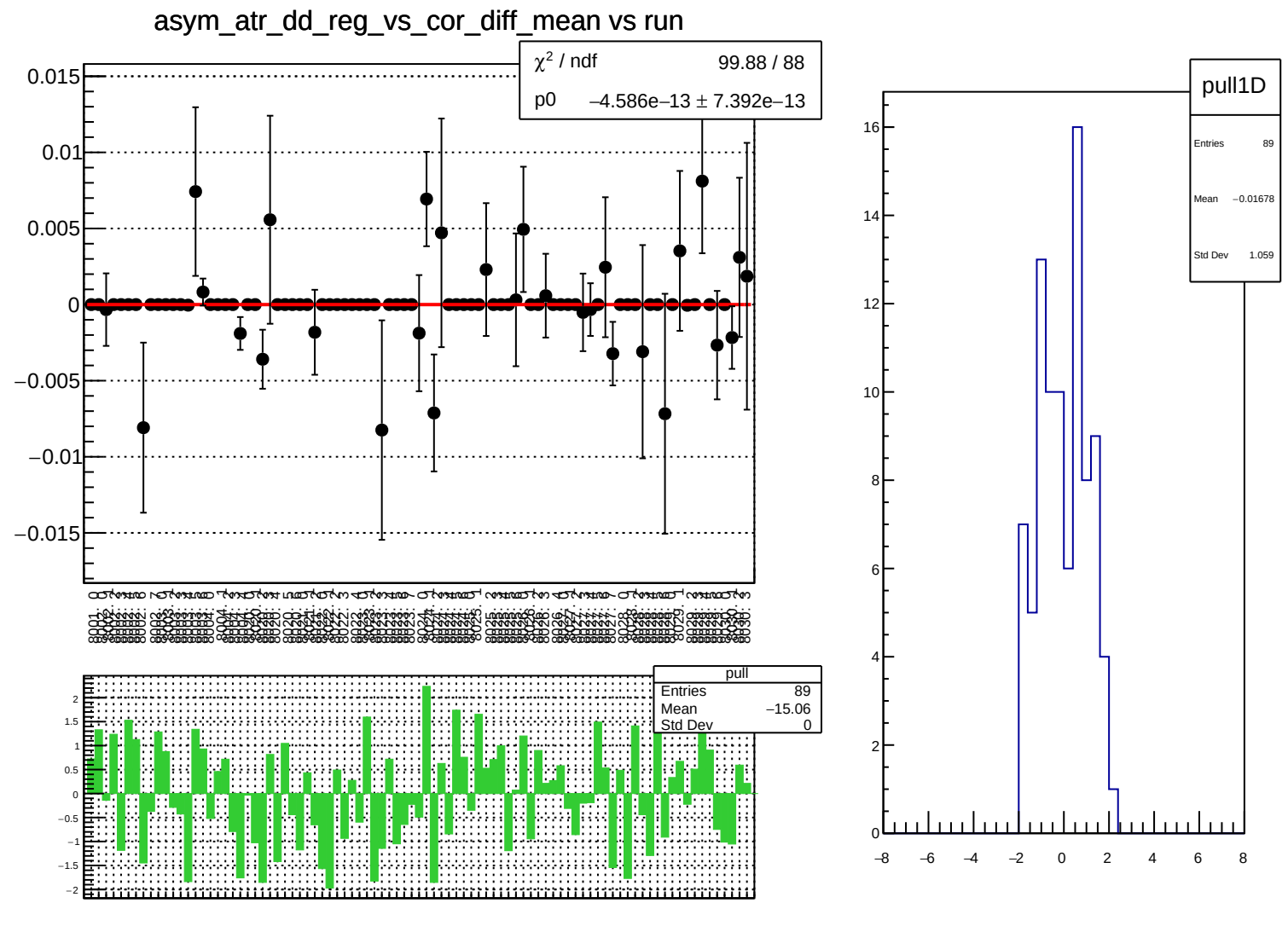

pull1D
Entries 89
Mean 0.02262
Std Dev 1.044
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

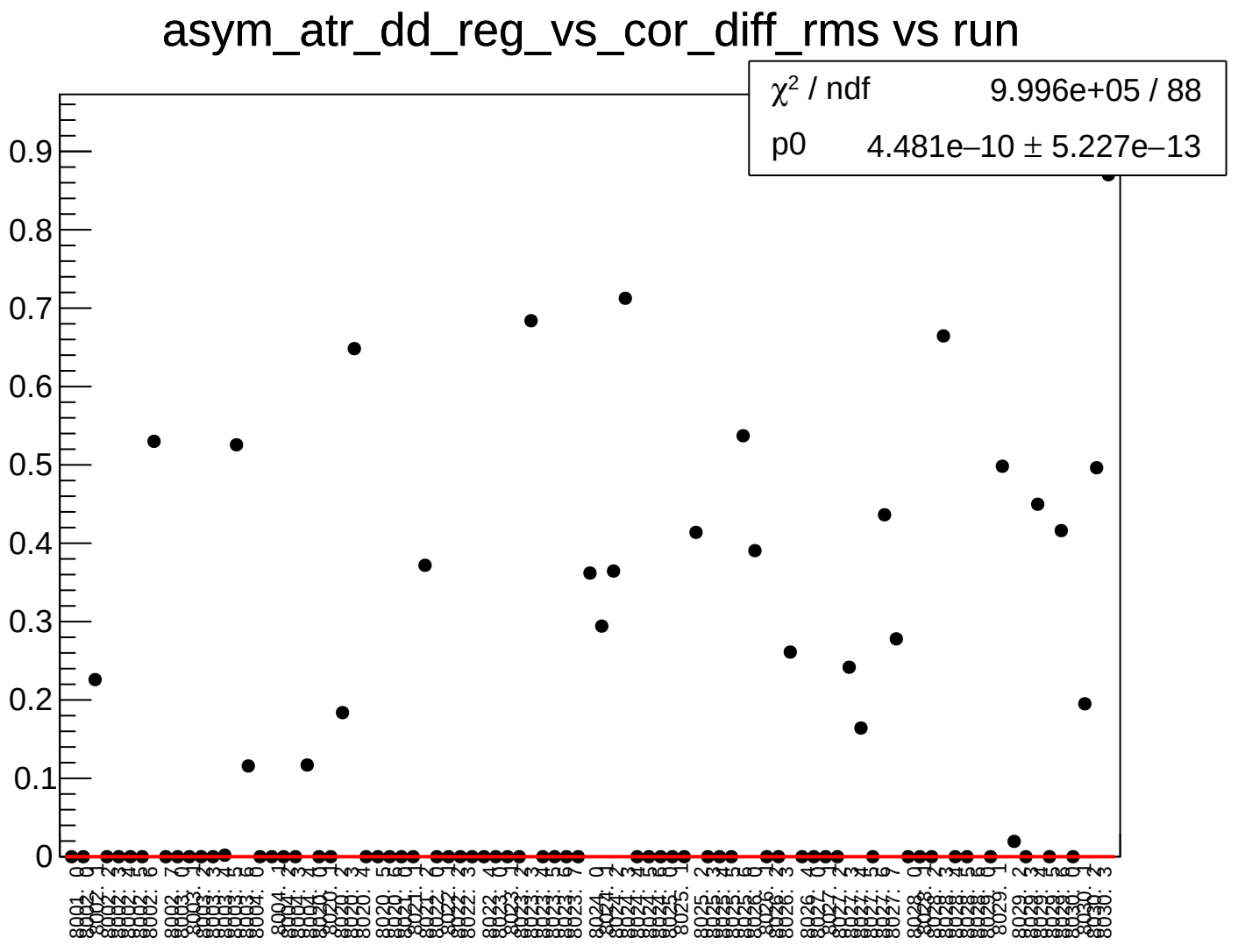

asym_atr_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 4063 / 88
p0 6352 ± 4.828
7500
7000
6500
6000
5500

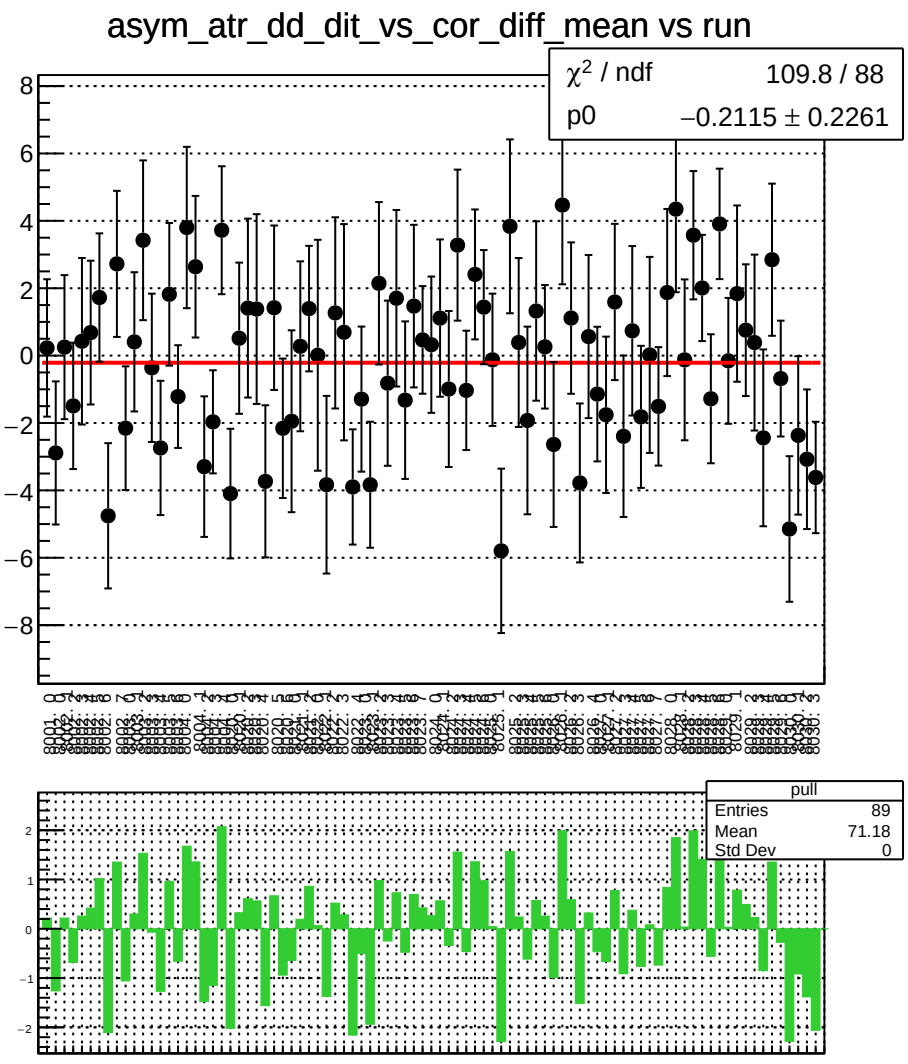

asym_atr_dd_mean vs run
×10^3
χ² / ndf 97.5 / 88
p0 −3432 ± 7044
200
100
0
−100
−200
−300
pull
Entries 89
Mean 167.1
Std Dev 0
2
1
0
−1
−2

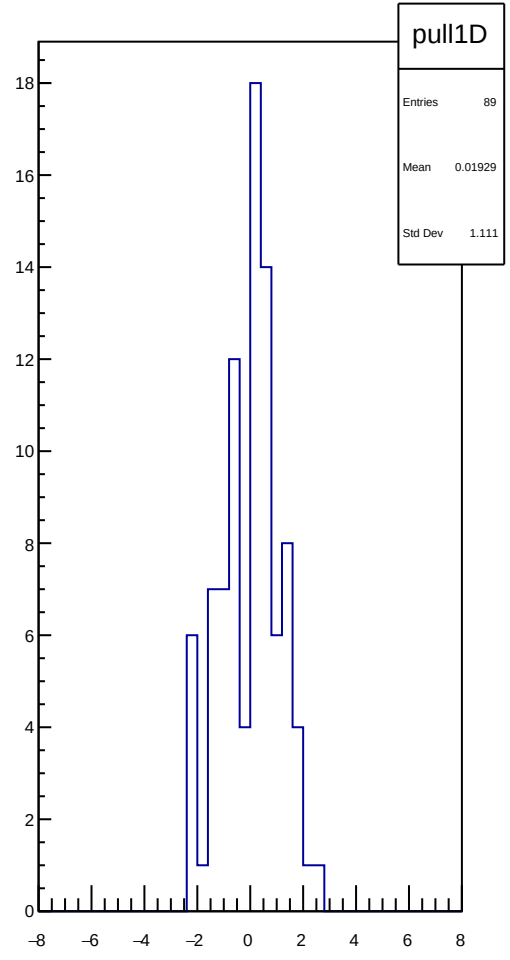

pull1D
Entries 89
Mean −0.01863
Std Dev 1.046
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

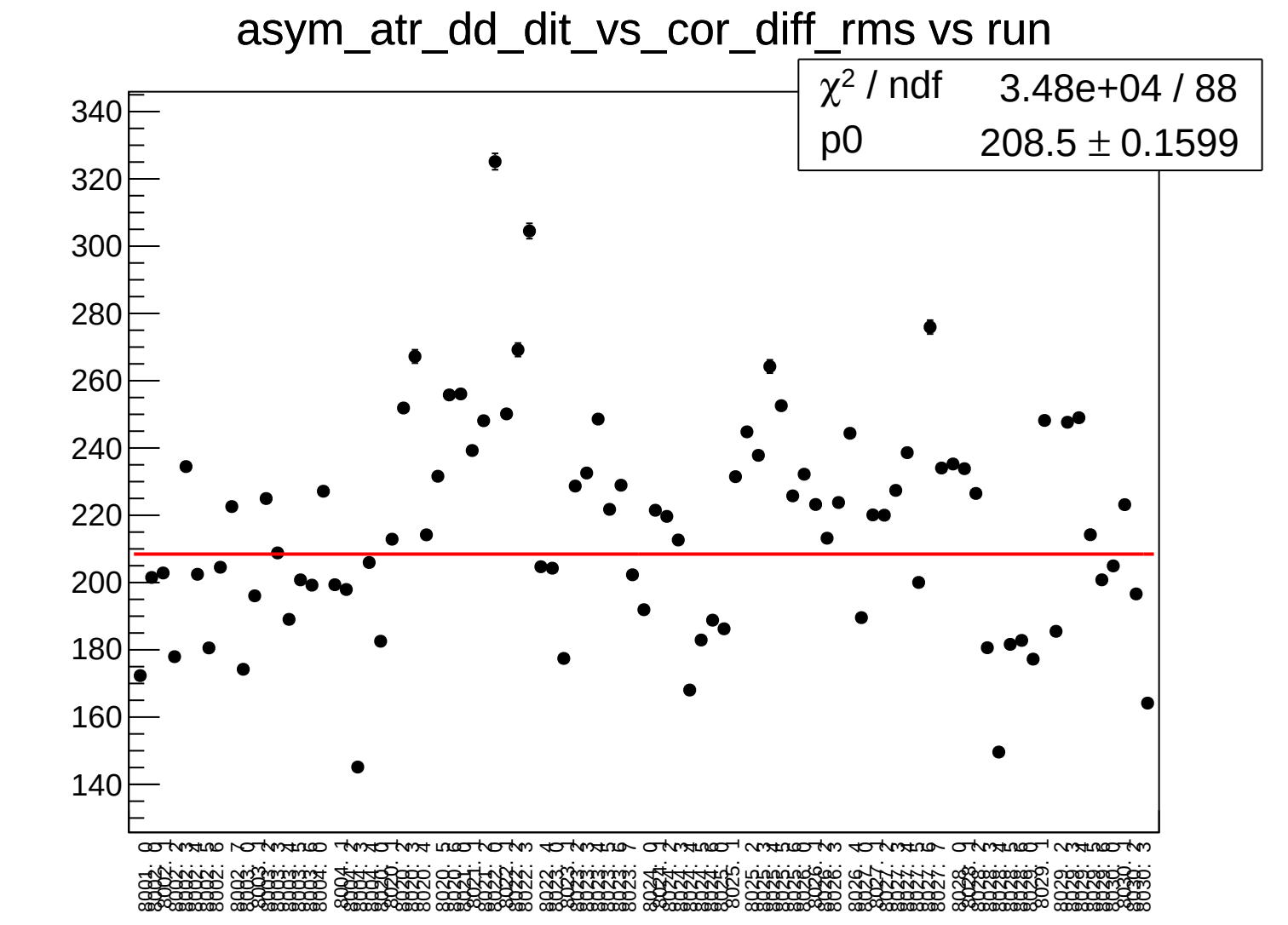

asym_atr_dd_rms vs run
χ^2 / ndf 3026 / 88
p0 6554 ± 4.981
7600
7400
7200
7000
6800
6600
6400
6200
6000
5800

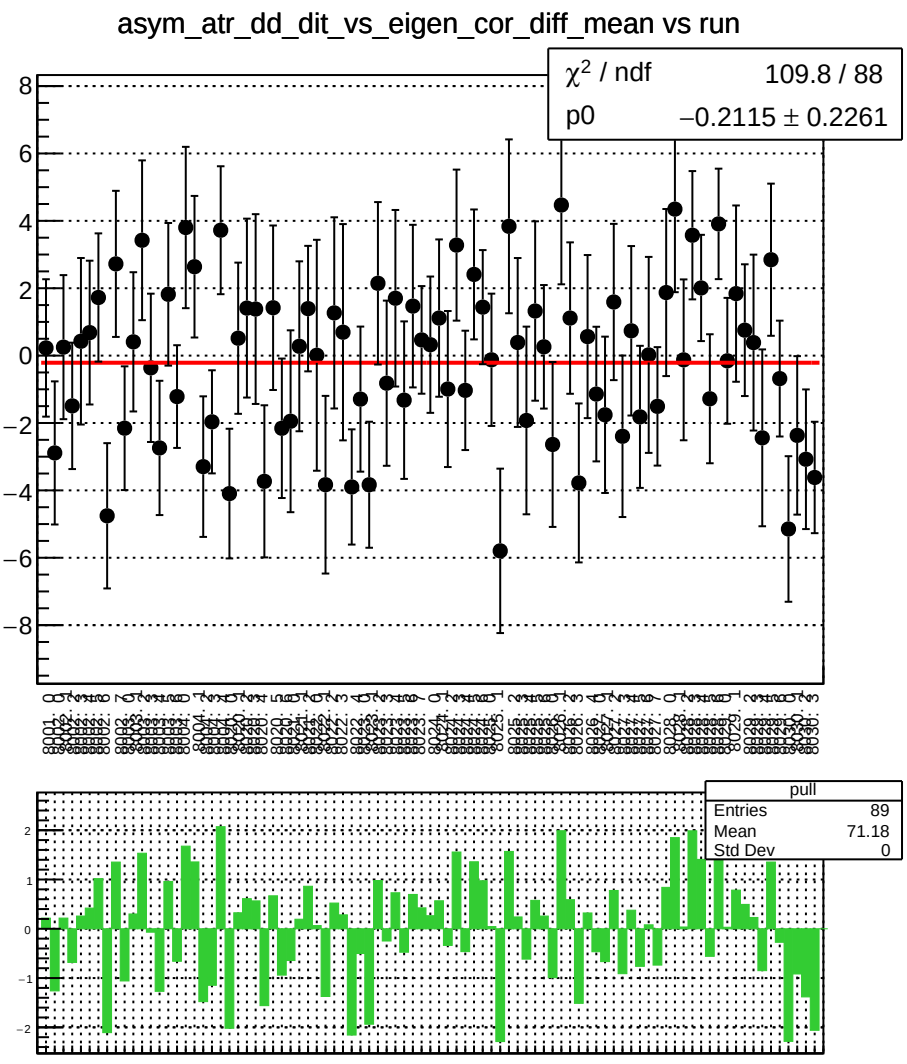

asym_atr_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 99.88 / 88
p0 −4.586e−13 ± 7.392e−13
pull
Entries 89
Mean −15.06
Std Dev 0
pull1D
Entries 89
Mean −0.01678
Std Dev 1.059

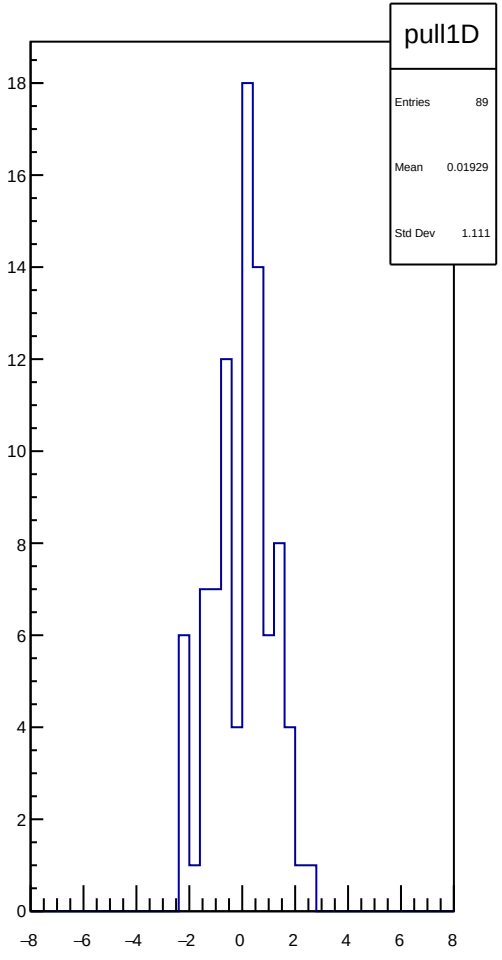

asym_atr_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.996e+05 / 88
p0 4.481e−10 ± 5.227e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

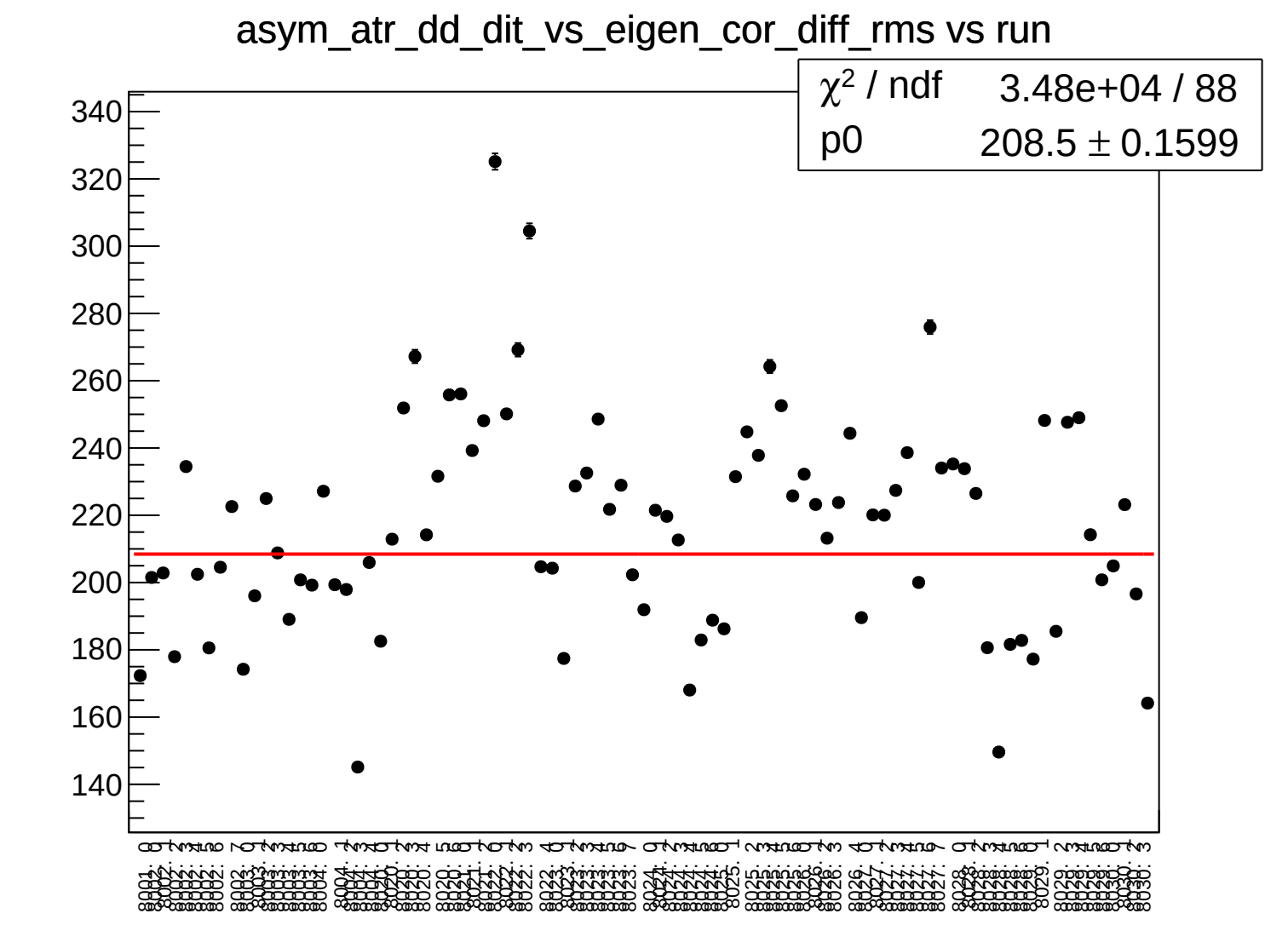

asym_atr_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 109.8 / 88
p0 −0.2115 ± 0.2261
pull
Entries 89
Mean 71.18
Std Dev 0

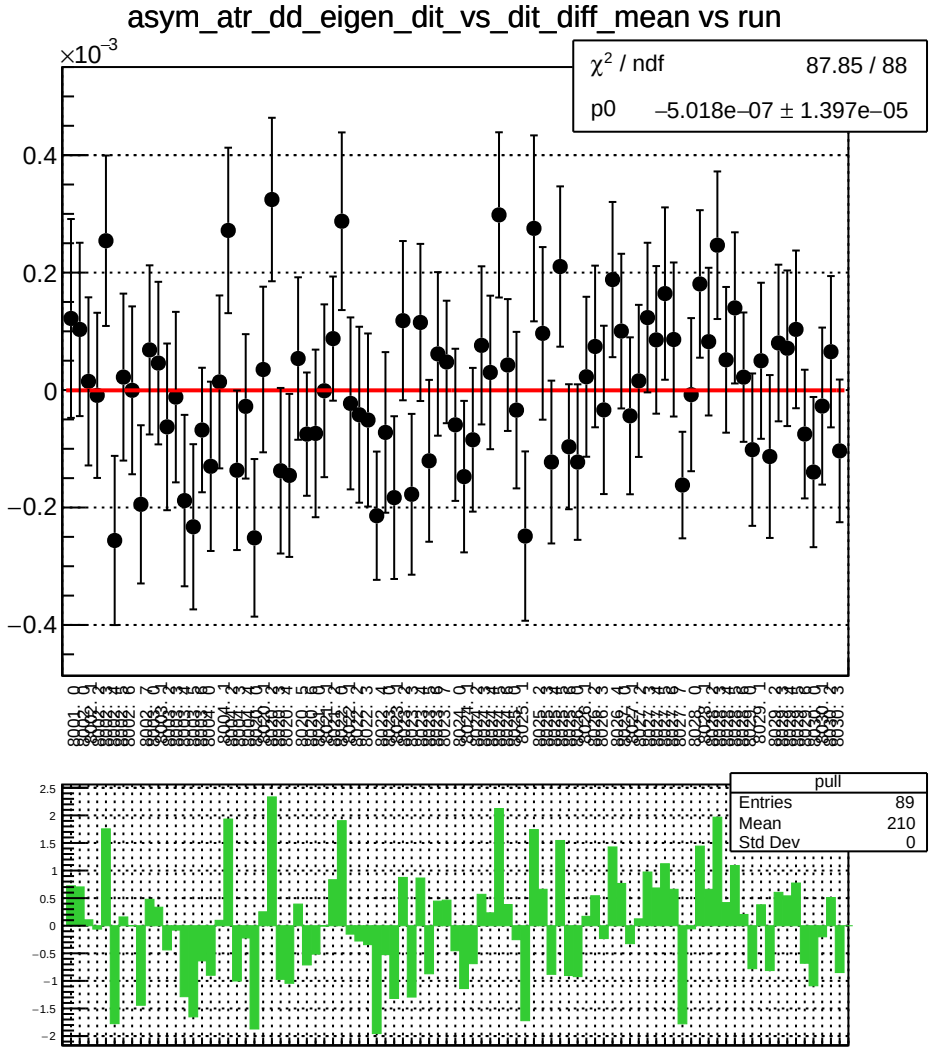

pull1D
Entries 89
Mean 0.01929
Std Dev 1.111

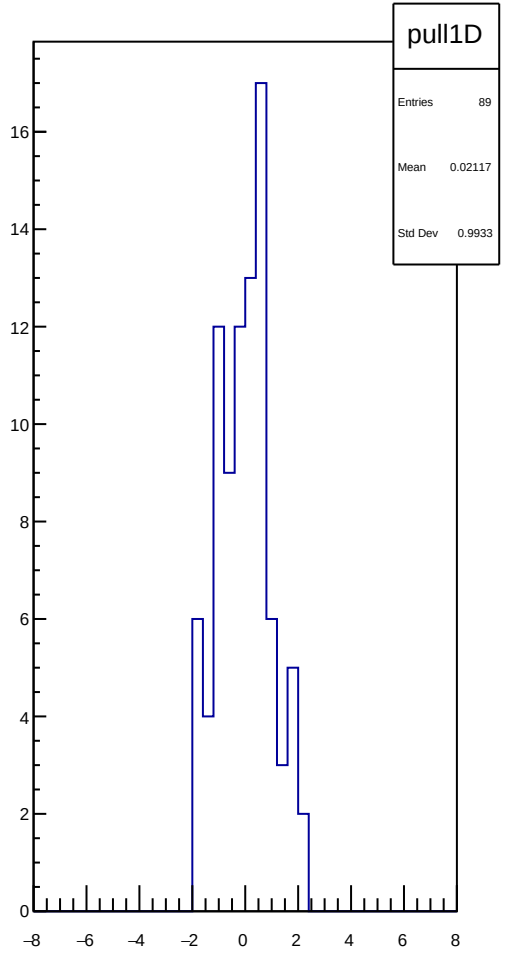

asym_atr_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.48e+04 / 88
p0 208.5 ± 0.1599
340
320
300
280
260
240
220
200
180
160
140

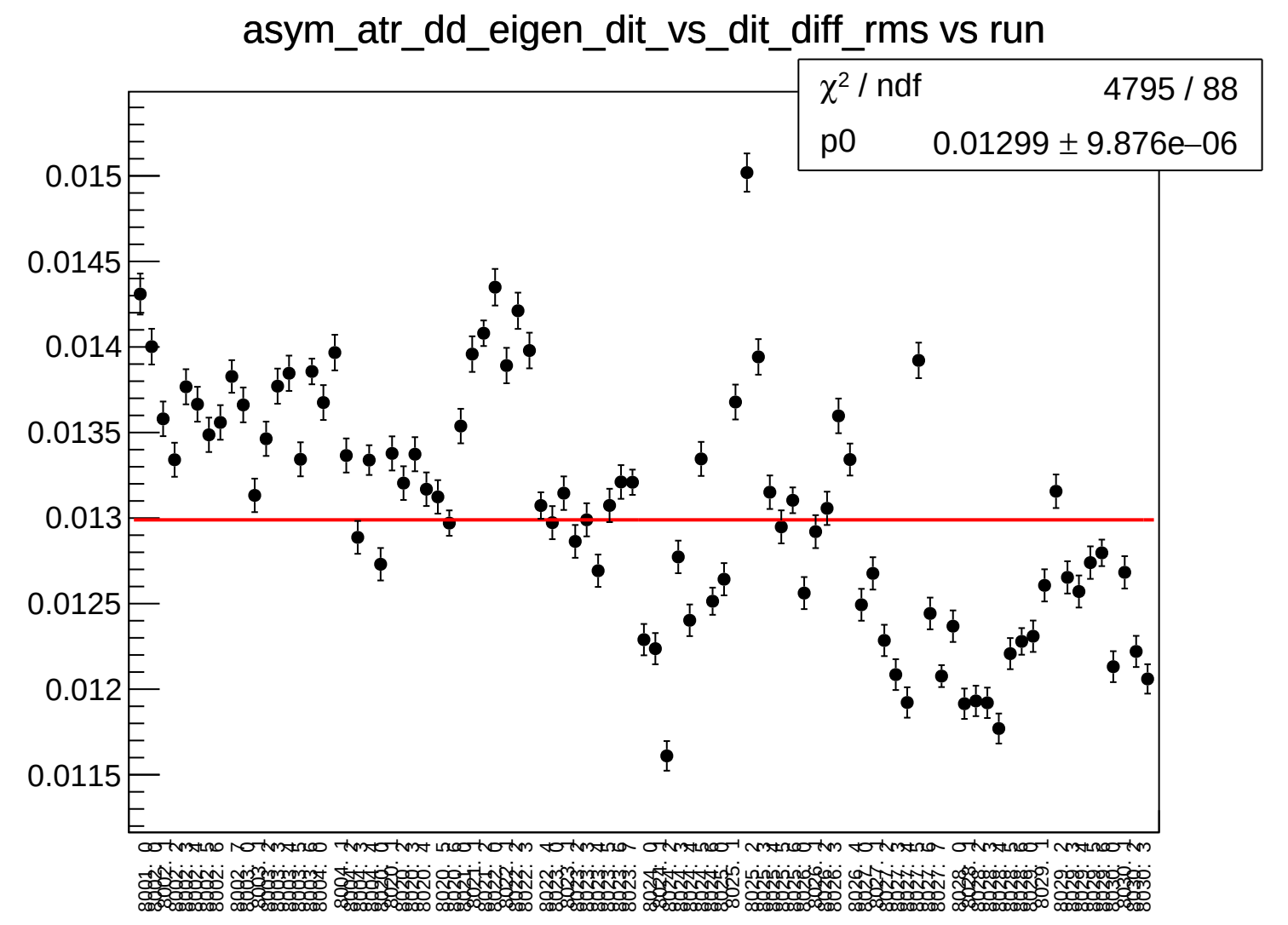

asym_atr_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.8 / 88
p0 −0.2115 ± 0.2261
pull
Entries 89
Mean 71.18
Std Dev 0

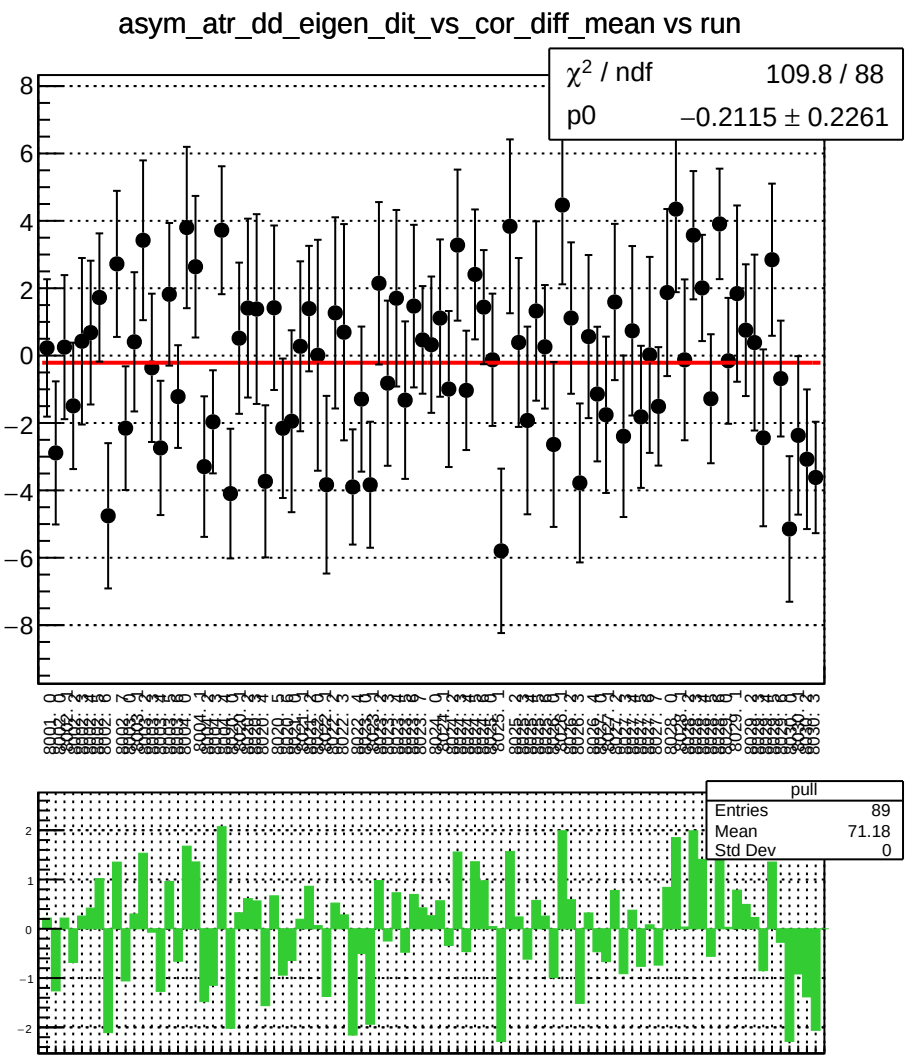

pull1D
Entries 89
Mean 0.01929
Std Dev 1.111

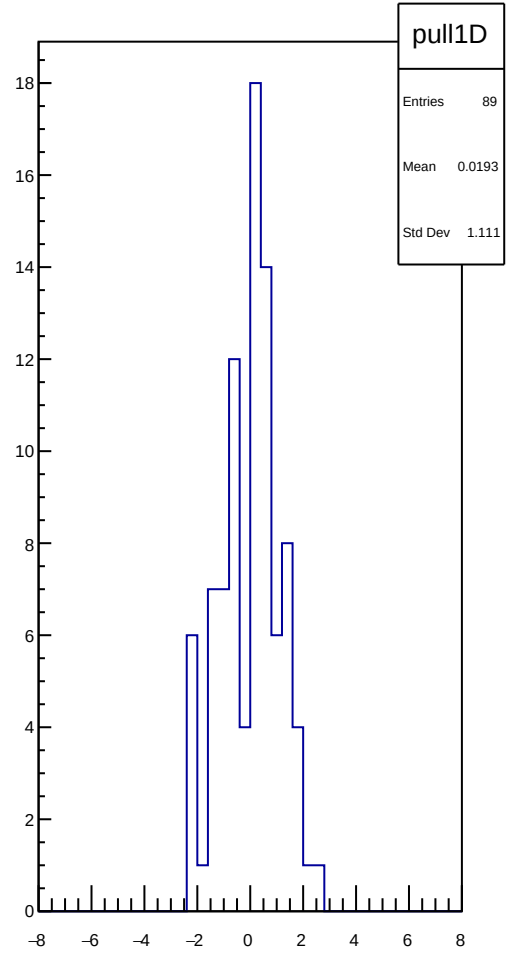

asym_atr_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.48e+04 / 88
p0 208.5 ± 0.1599
340
320
300
280
260
240
220
200
180
160
140

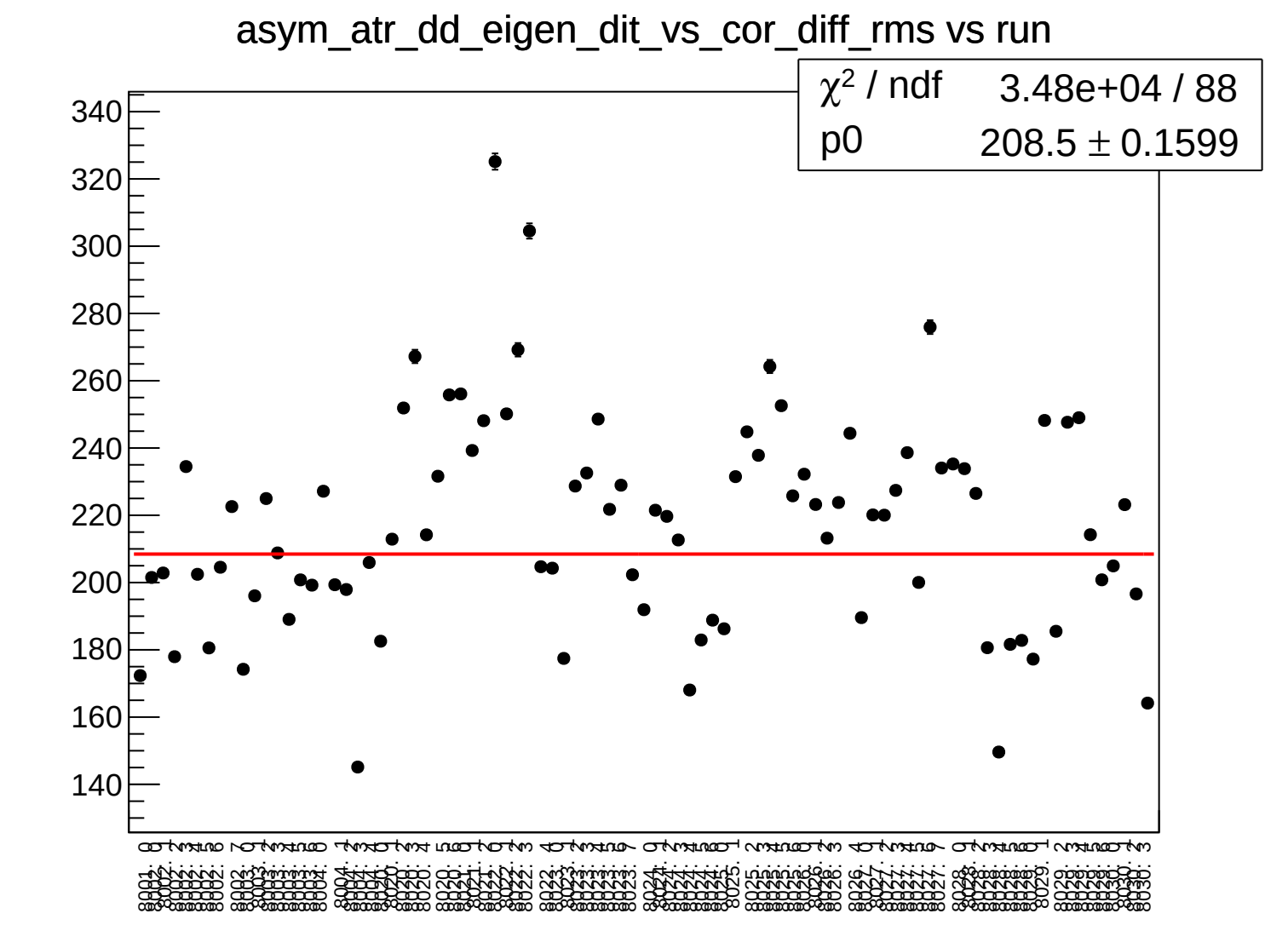

asym_atr_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.85 / 88
p0 −5.018e−07 ± 1.397e−05
pull
Entries 89
Mean 210
Std Dev 0

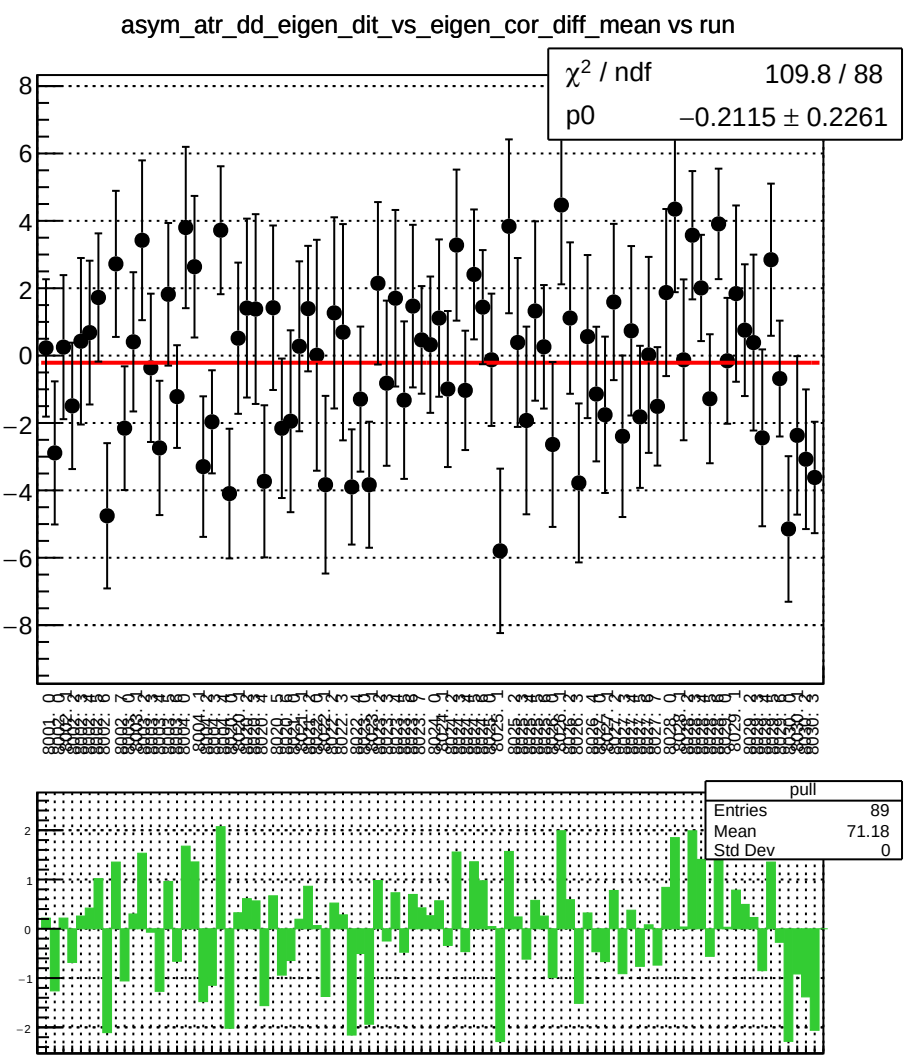

pull1D
Entries 89
Mean 0.02117
Std Dev 0.9933

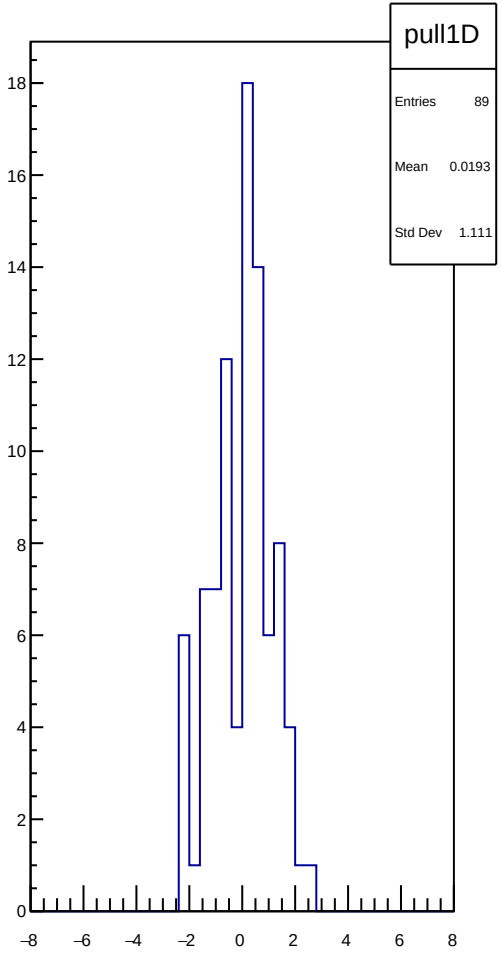

asym_atr_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4795 / 88
p0 0.01299 ± 9.876e–06
0.015
0.0145
0.014
0.0135
0.013
0.0125
0.012
0.0115

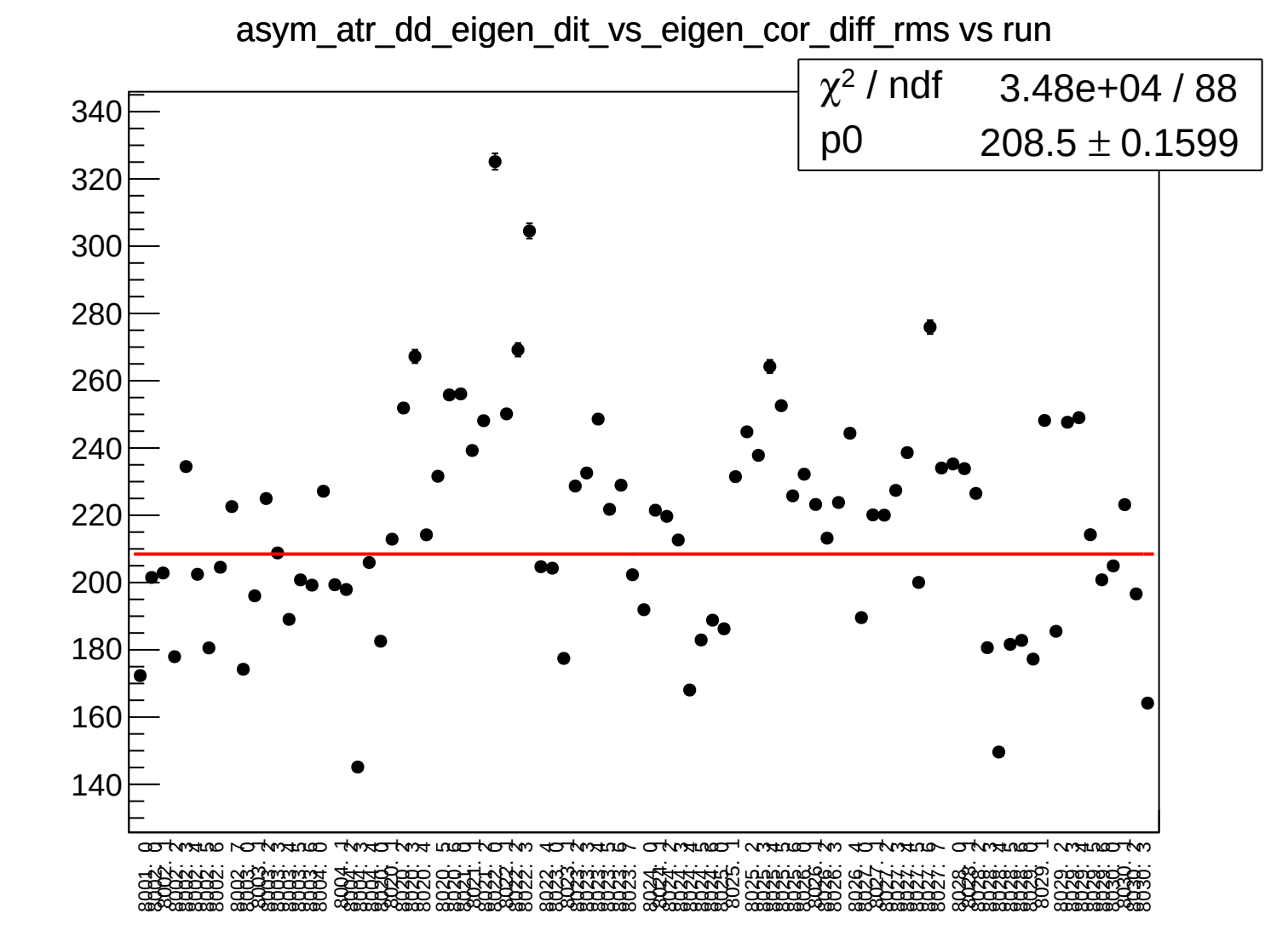

asym_atr_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 109.8 / 88
p0 −0.2115 ± 0.2261
pull
Entries 89
Mean 71.18
Std Dev 0

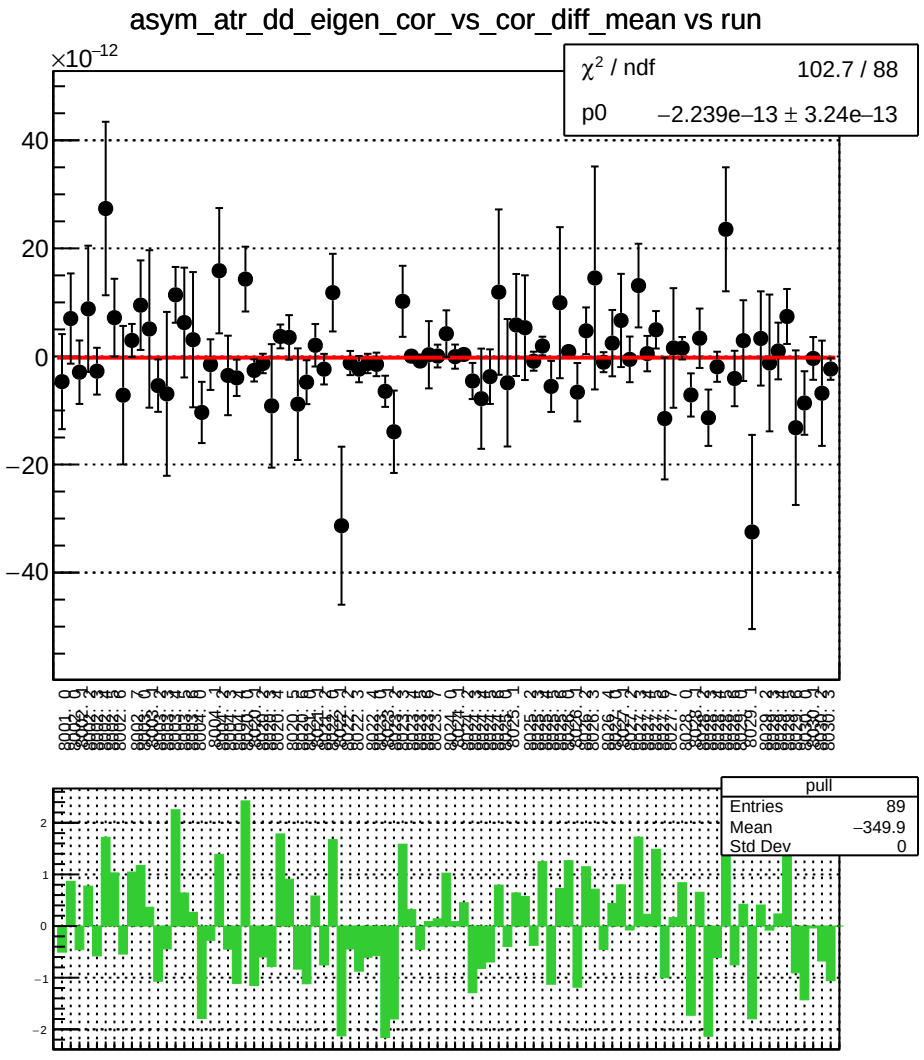

pull1D
Entries 89
Mean 0.0193
Std Dev 1.111

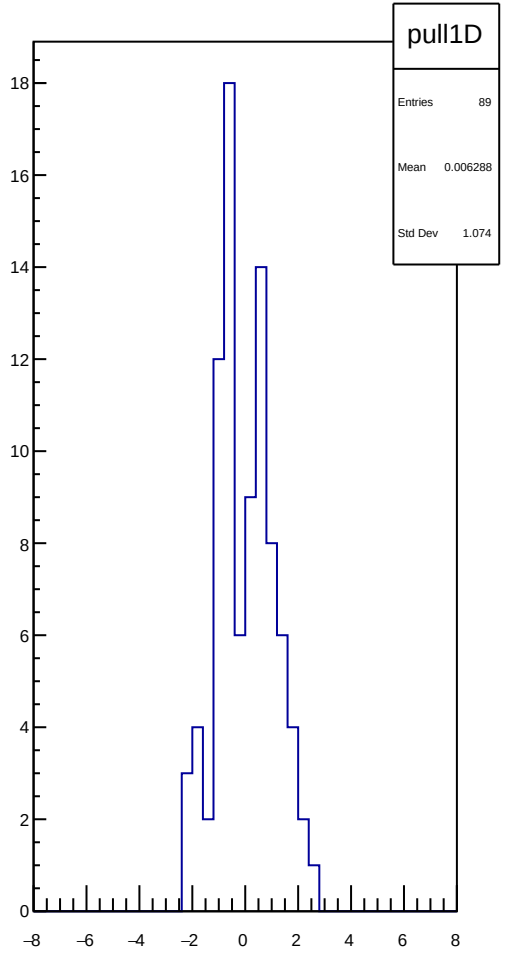

asym_atr_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.48e+04 / 88
p0 208.5 ± 0.1599
340
320
300
280
260
240
220
200
180
160
140

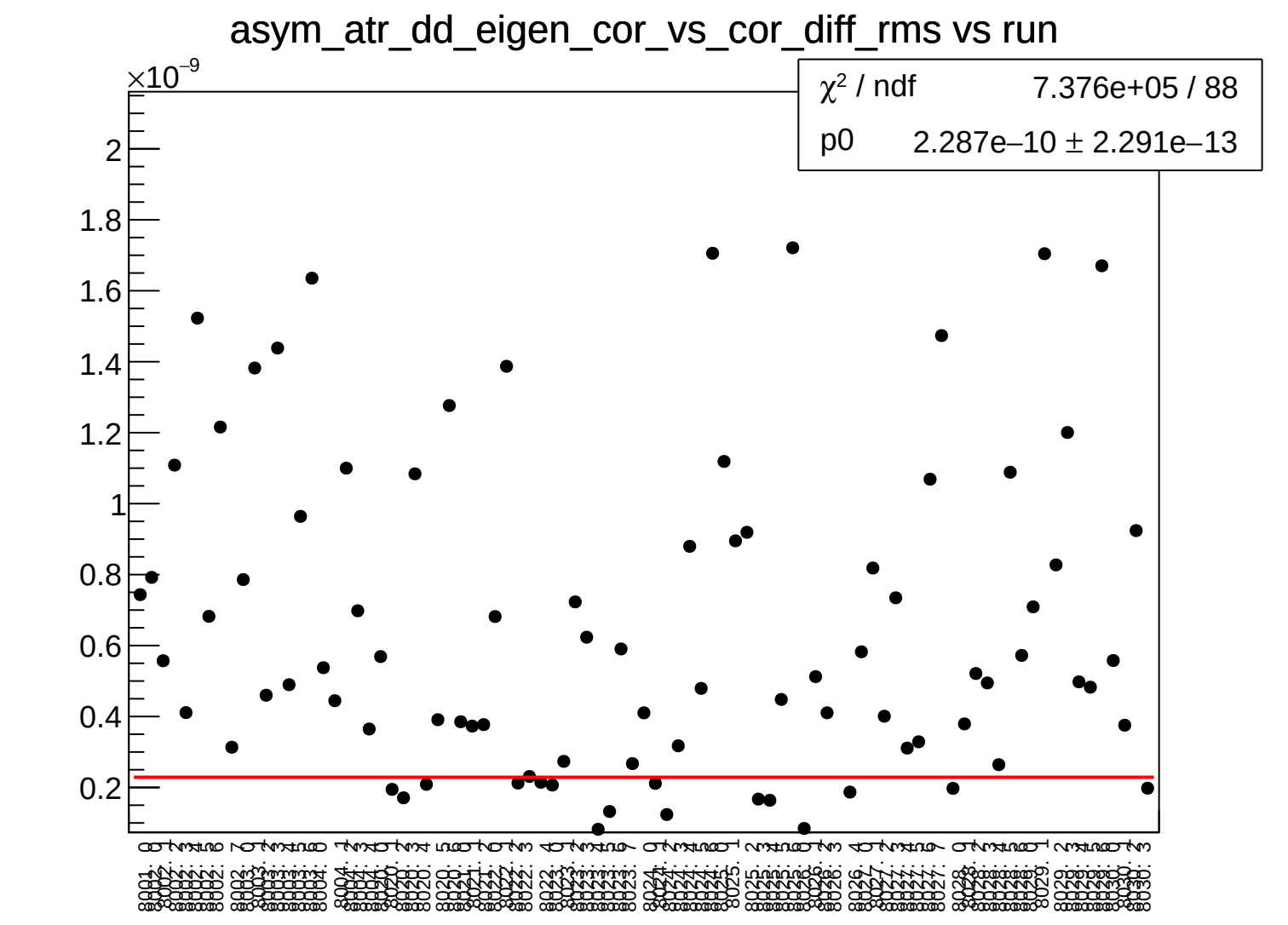

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.8 / 88
p0 −0.2115 ± 0.2261
pull
Entries 89
Mean 71.18
Std Dev 0

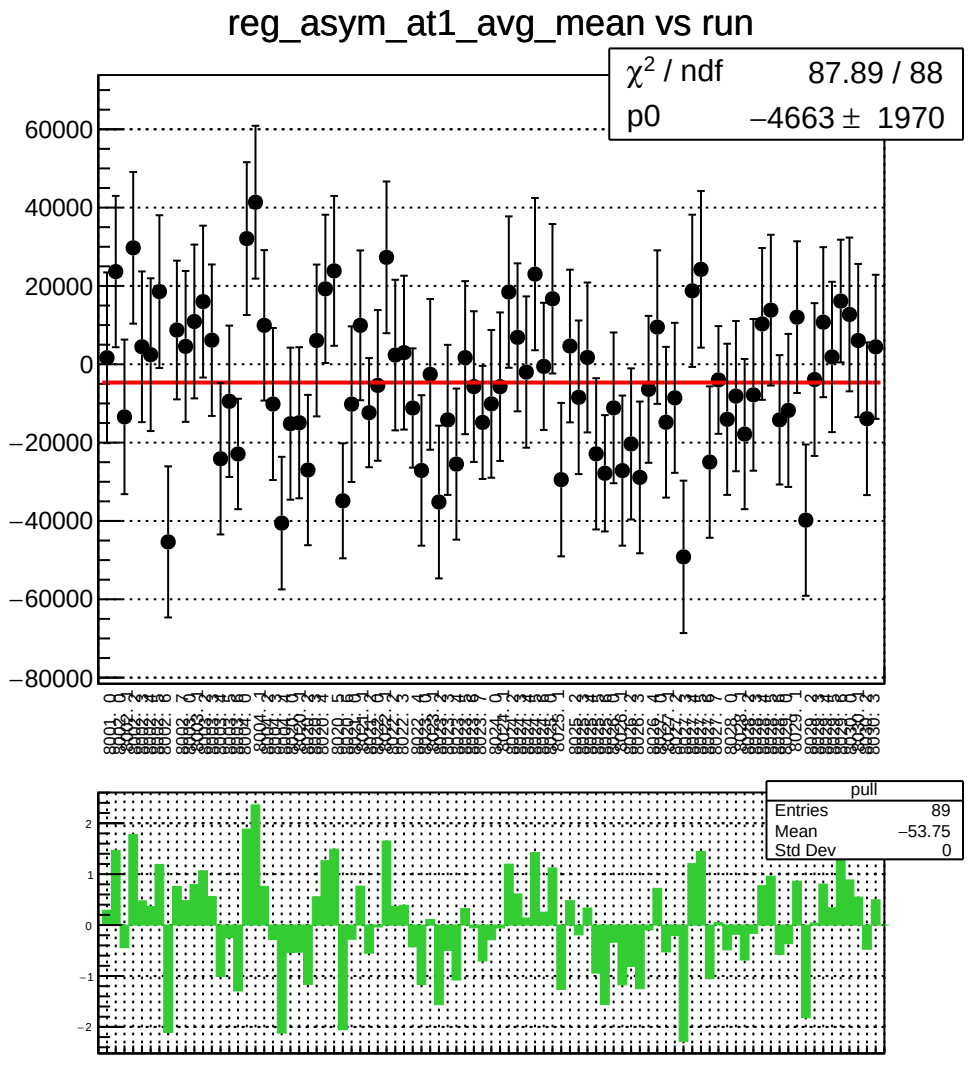

pull1D
Entries 89
Mean 0.0193
Std Dev 1.111

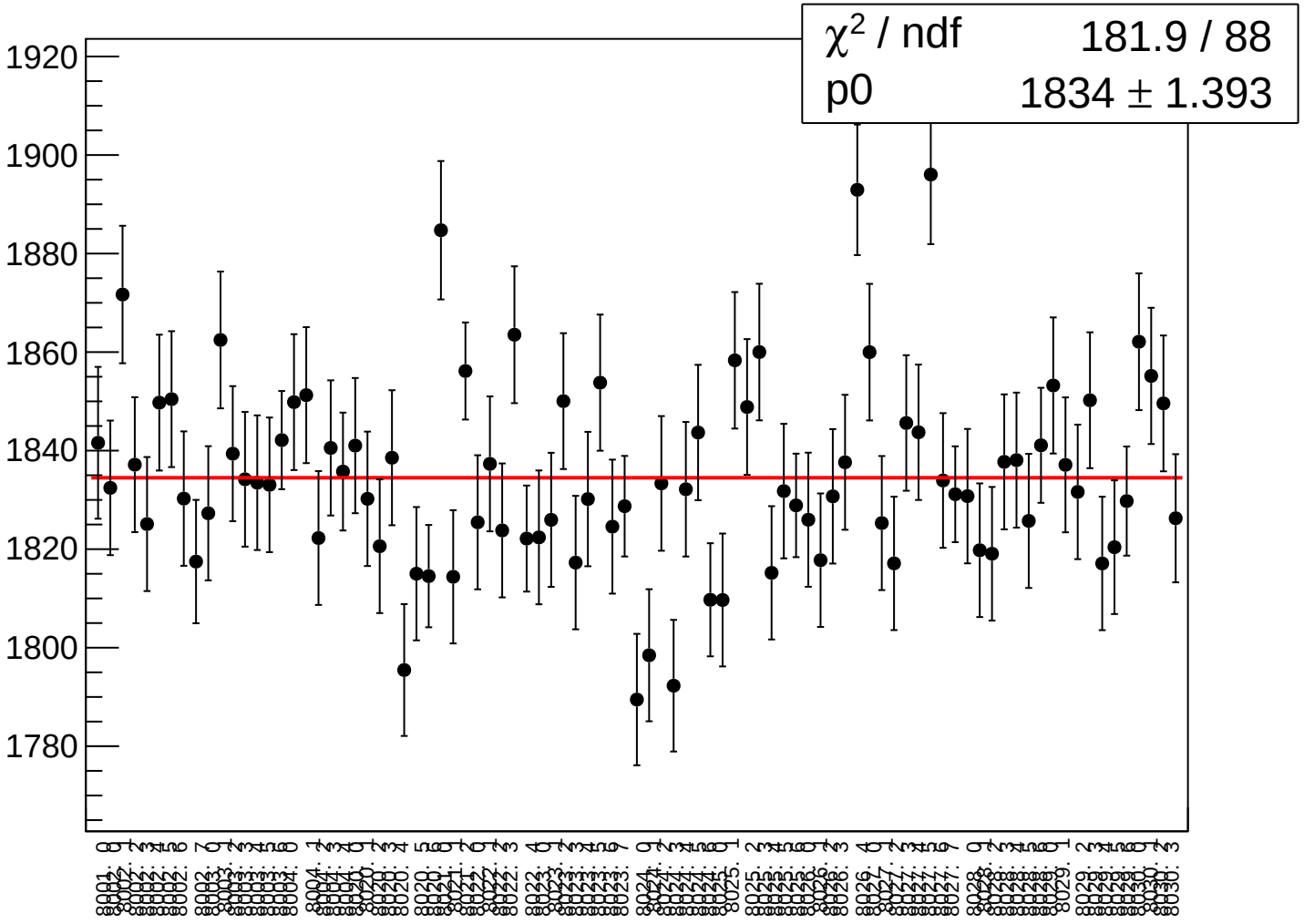

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.48e+04 / 88
p0 208.5 ± 0.1599
340
320
300
280
260
240
220
200
180
160
140

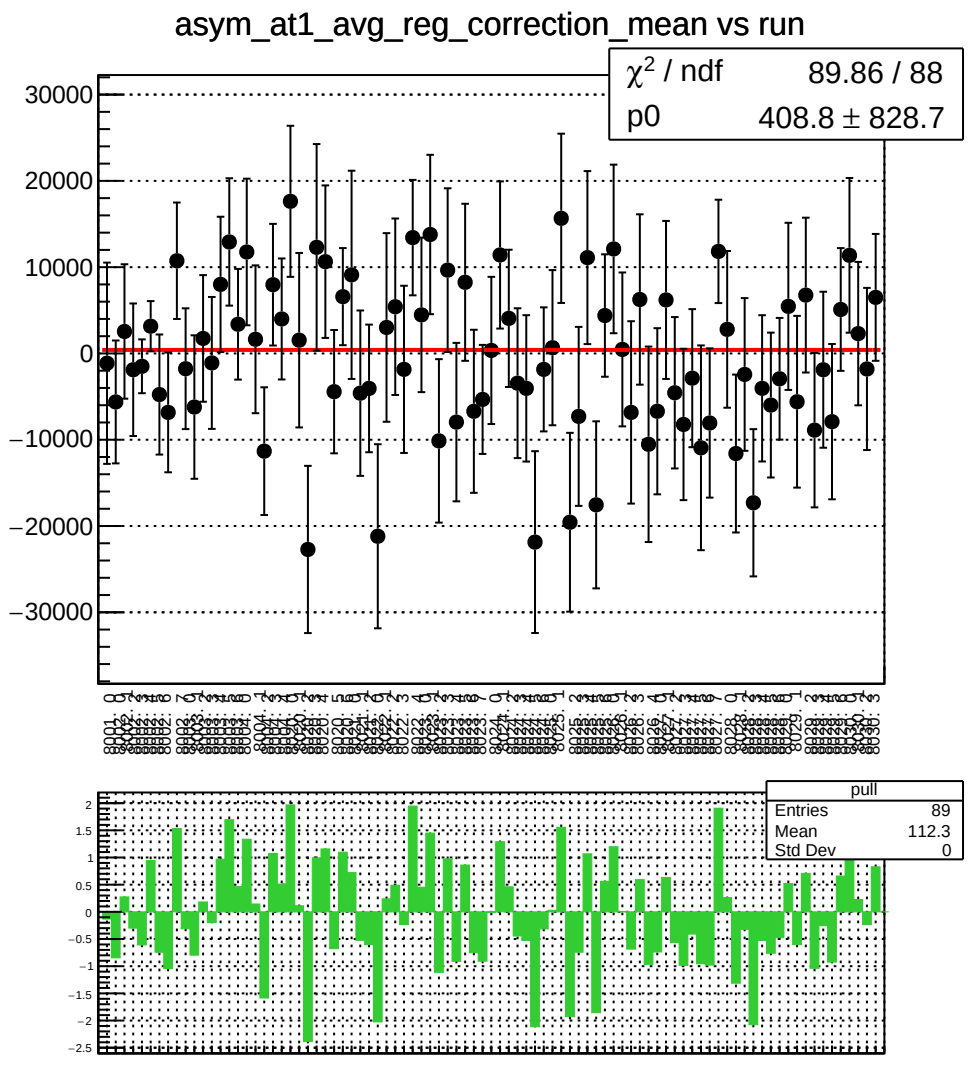

asym_atr_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 102.7 / 88
p0 −2.239e−13 ± 3.24e−13
40
20
0
−20
−40
pull
Entries 89
Mean −349.9
Std Dev 0
2
1
0
−1
−2

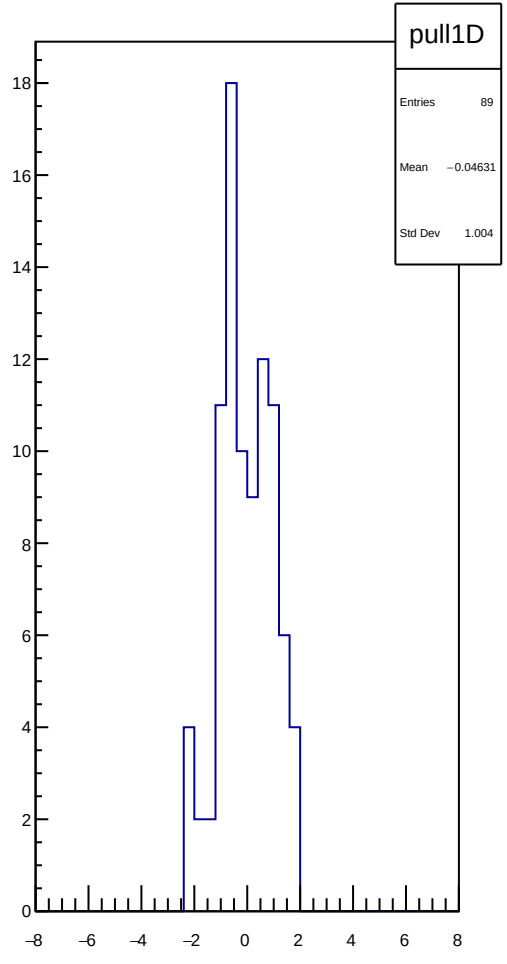

pull1D
Entries 89
Mean 0.006288
Std Dev 1.074
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

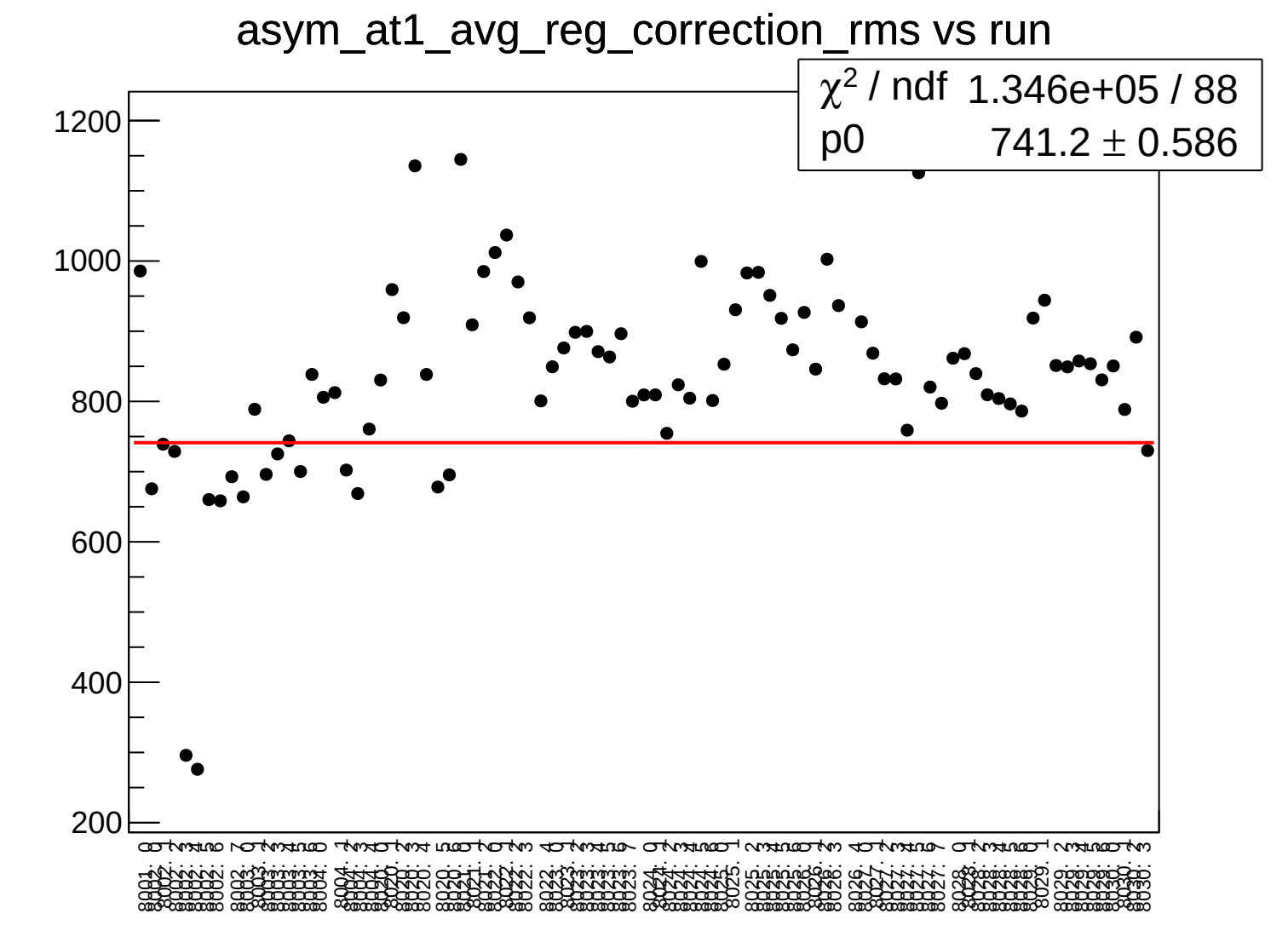

asym_atr_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.376e+05 / 88
p0 2.287e−10 ± 2.291e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

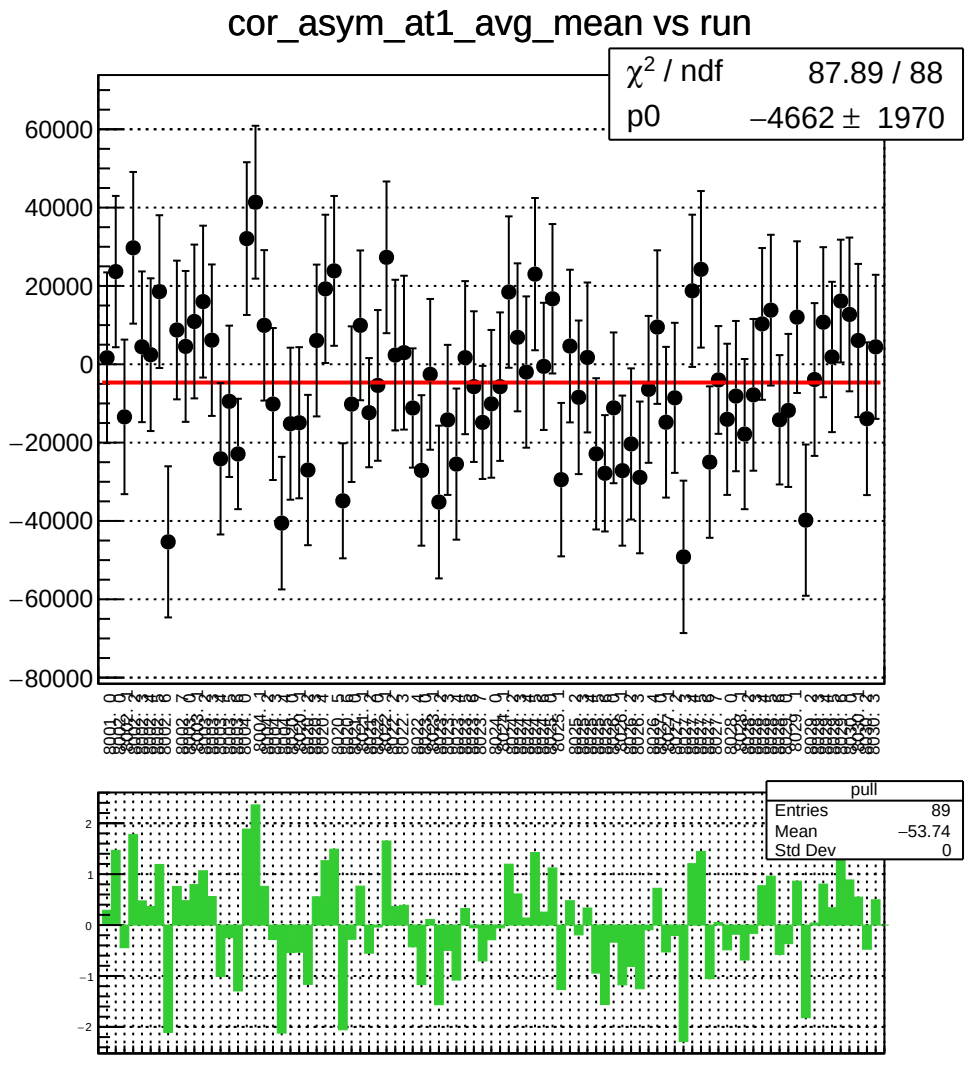

reg_asym_at1_avg_mean vs run
χ² / ndf 87.89 / 88
p0 −4663 ± 1970
pull
Entries 89
Mean −53.75
Std Dev 0
pull1D
Entries 89
Mean 0.02464
Std Dev 0.9934

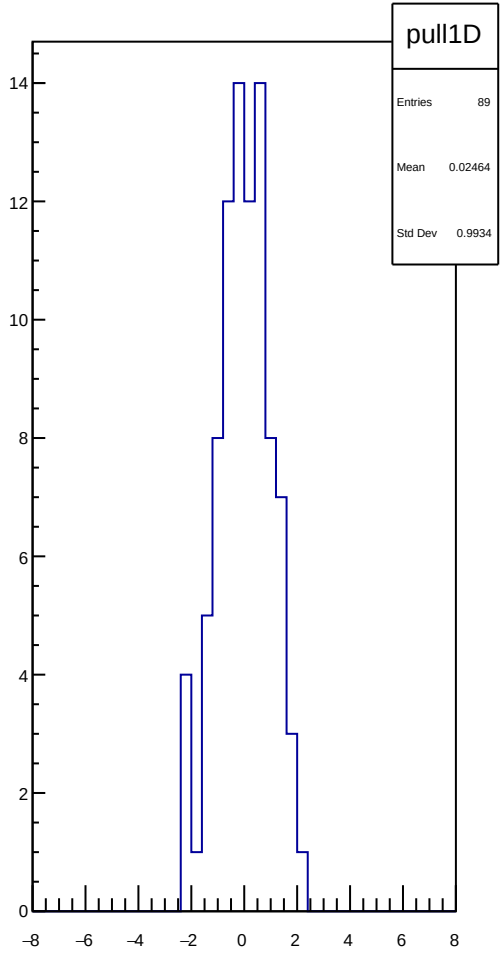

reg_asym_at1_avg_rms vs run
χ^2 / ndf 181.9 / 88
p0 1834 ± 1.393
1920
1900
1880
1860
1840
1820
1800
1780

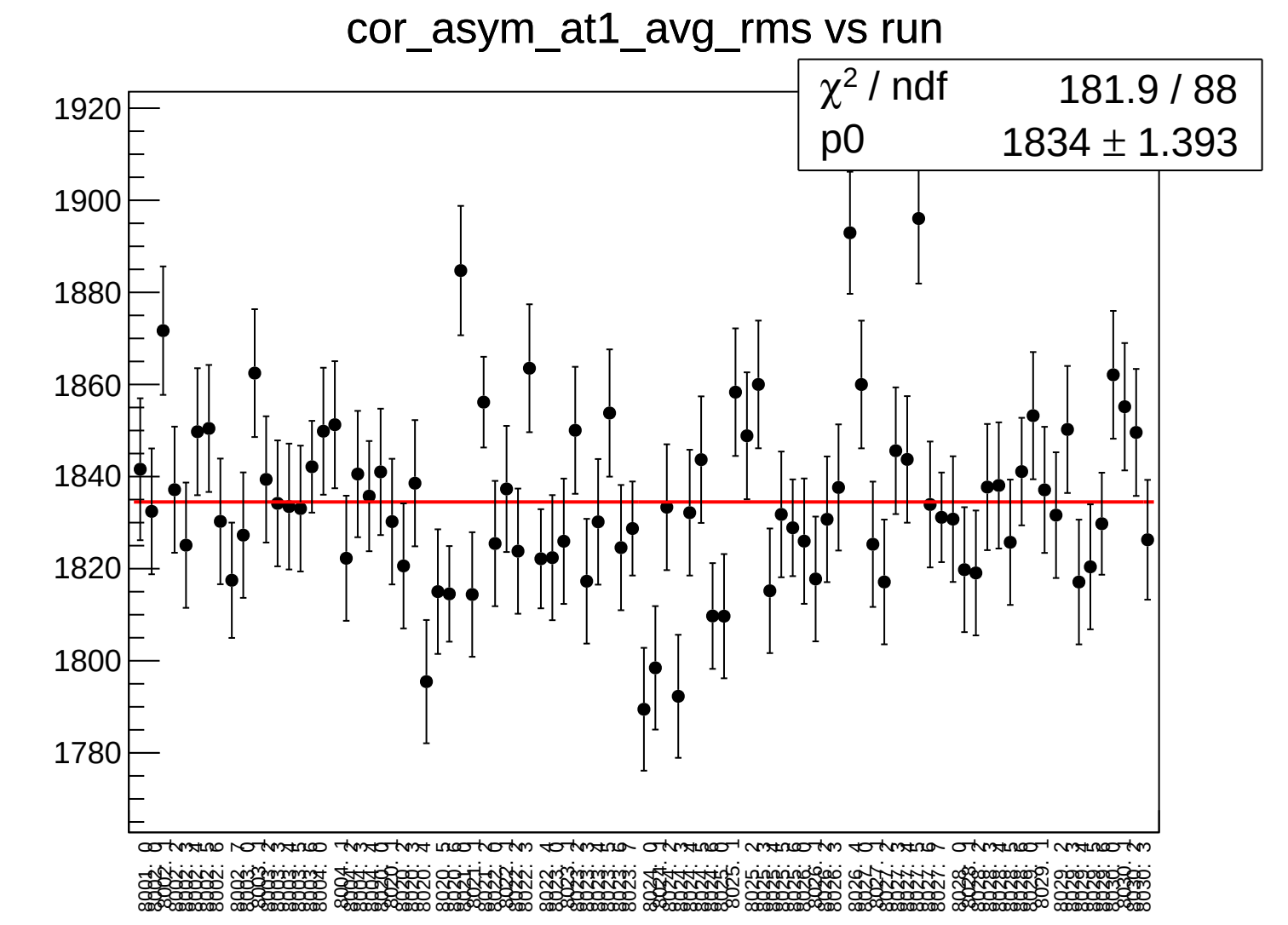

asym_at1_avg_reg_correction_mean vs run
χ² / ndf 89.86 / 88
p0 408.8 ± 828.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 112.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

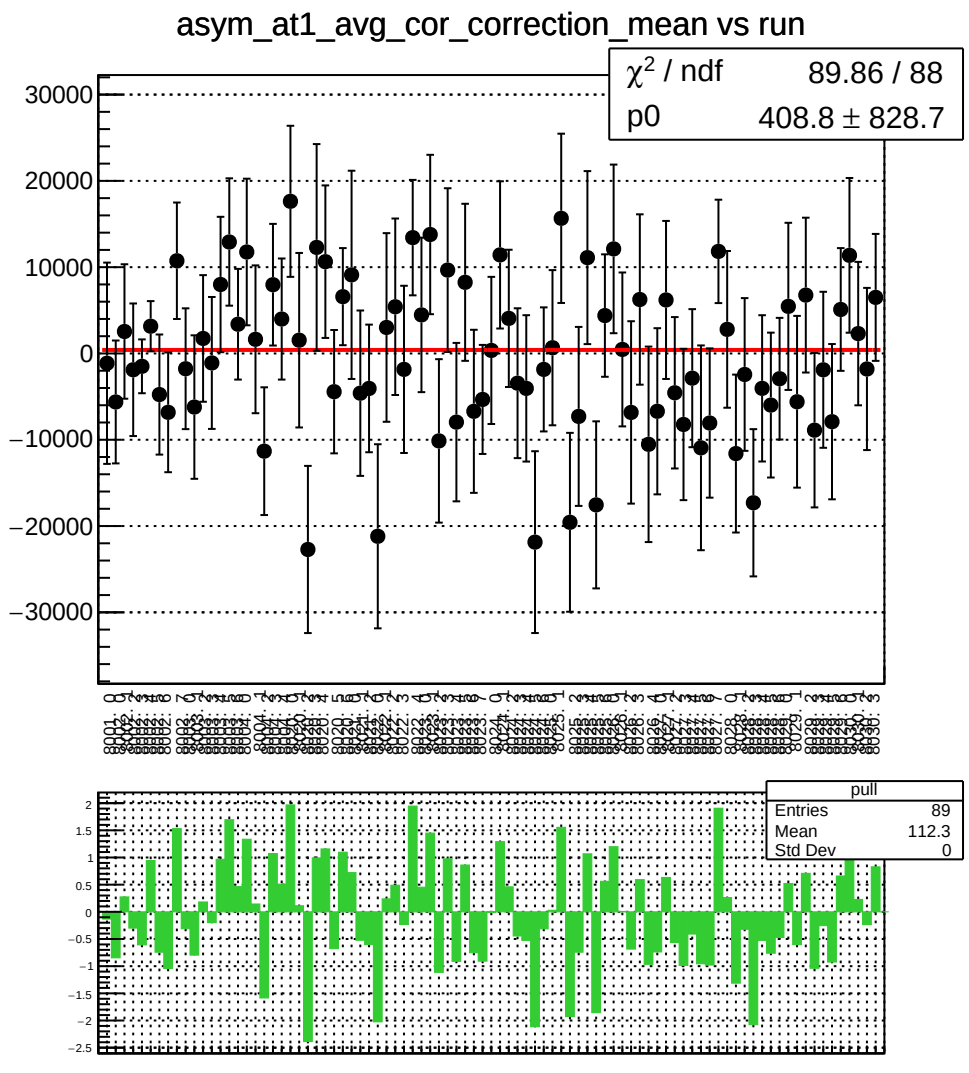

pull1D
Entries 89
Mean −0.04631
Std Dev 1.004
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

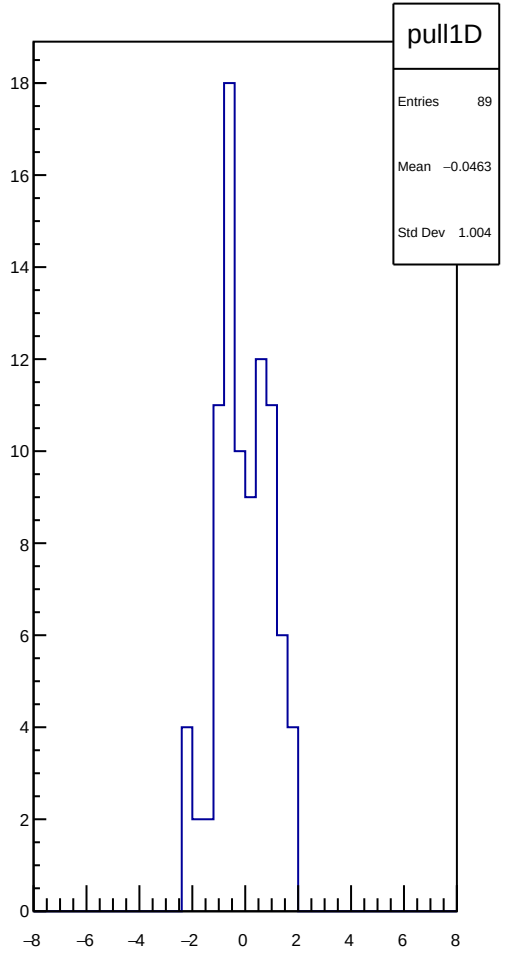

asym_at1_avg_reg_correction_rms vs run
χ² / ndf 1.346e+05 / 88
p0 741.2 ± 0.586
1200
1000
800
600
400
200

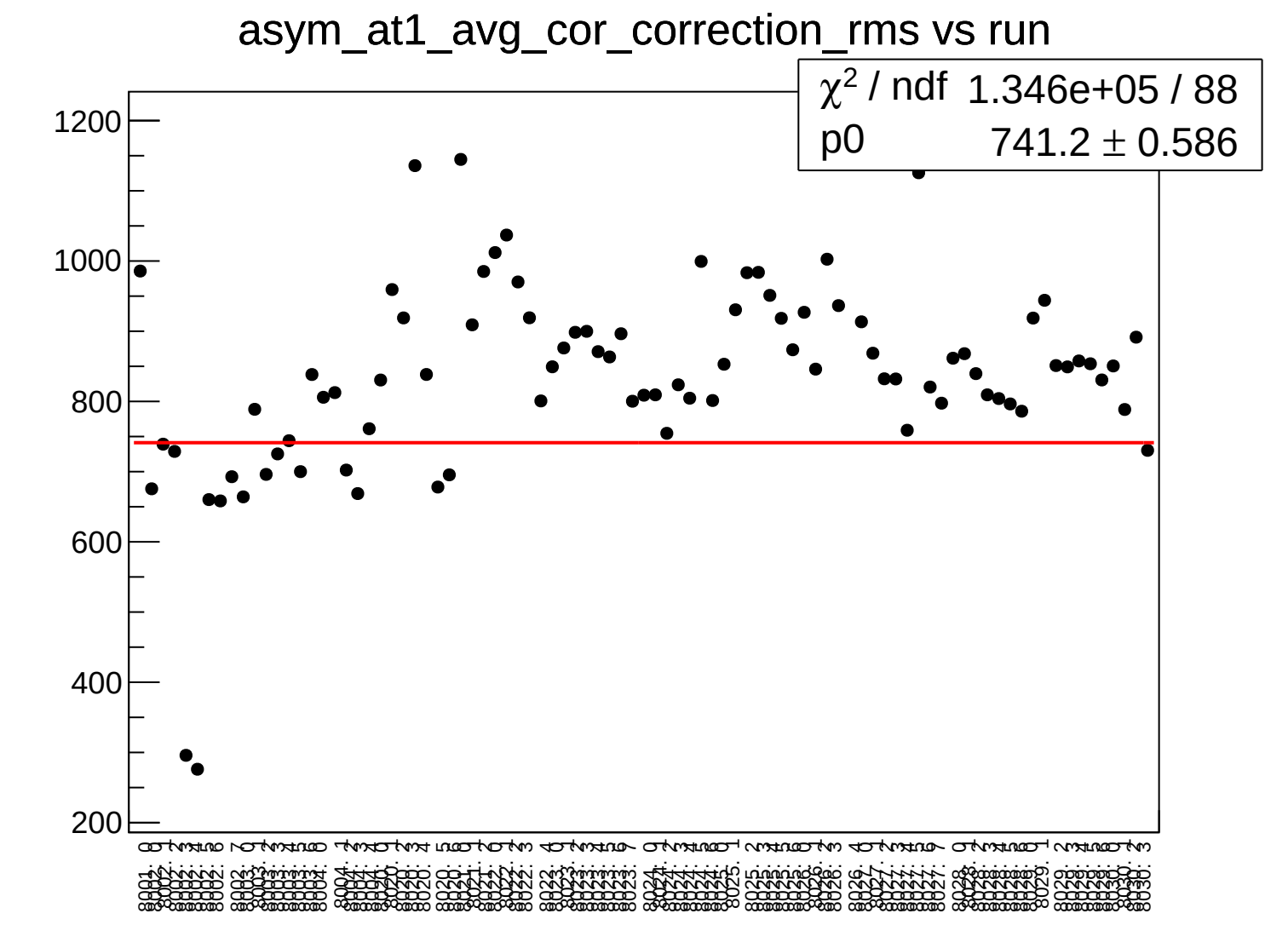

cor_asym_at1_avg_mean vs run
χ² / ndf 87.89 / 88
p0 −4662 ± 1970
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −53.74
Std Dev 0
2
1
0
−1
−2

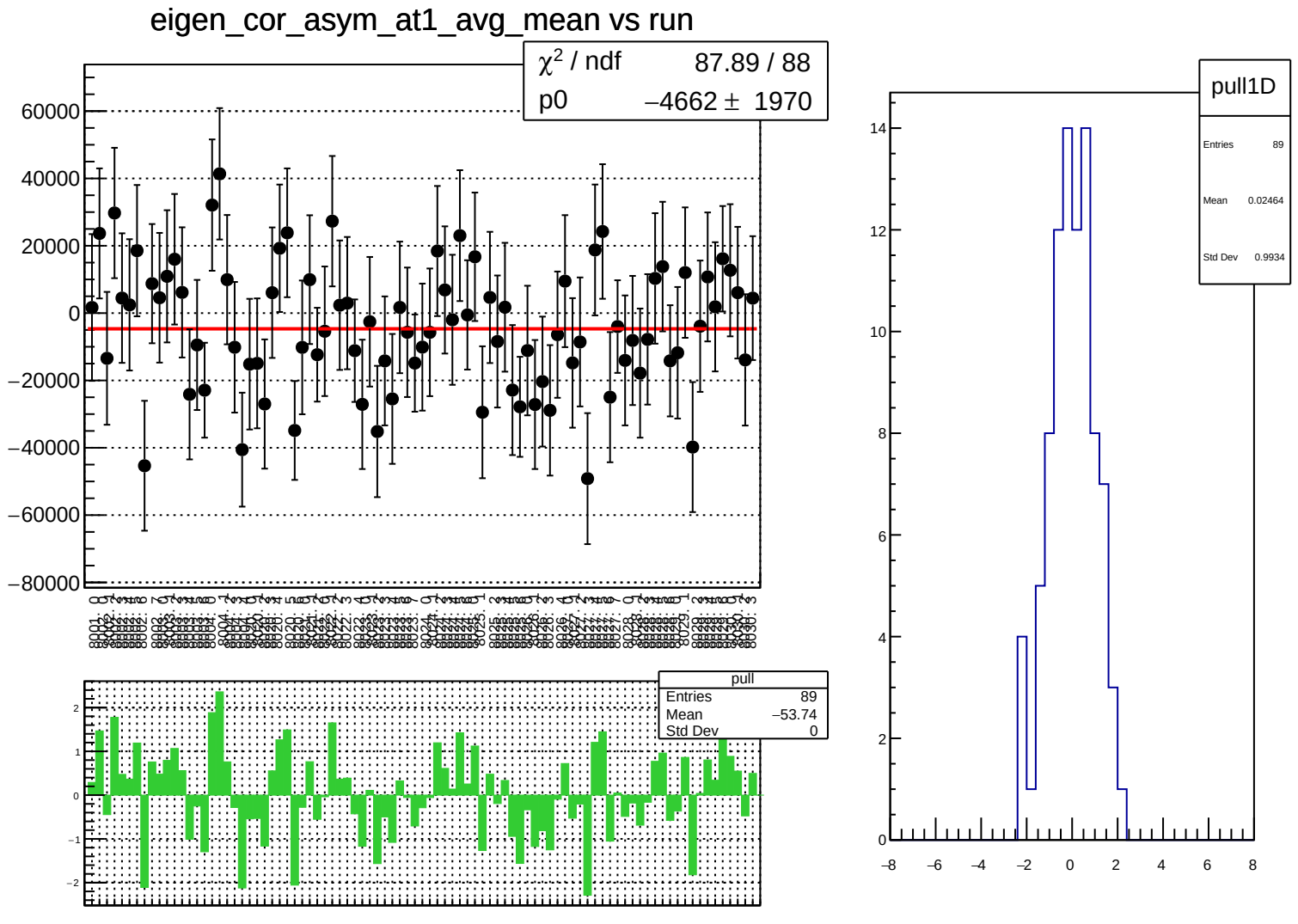

pull1D
Entries 89
Mean 0.02464
Std Dev 0.9934
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

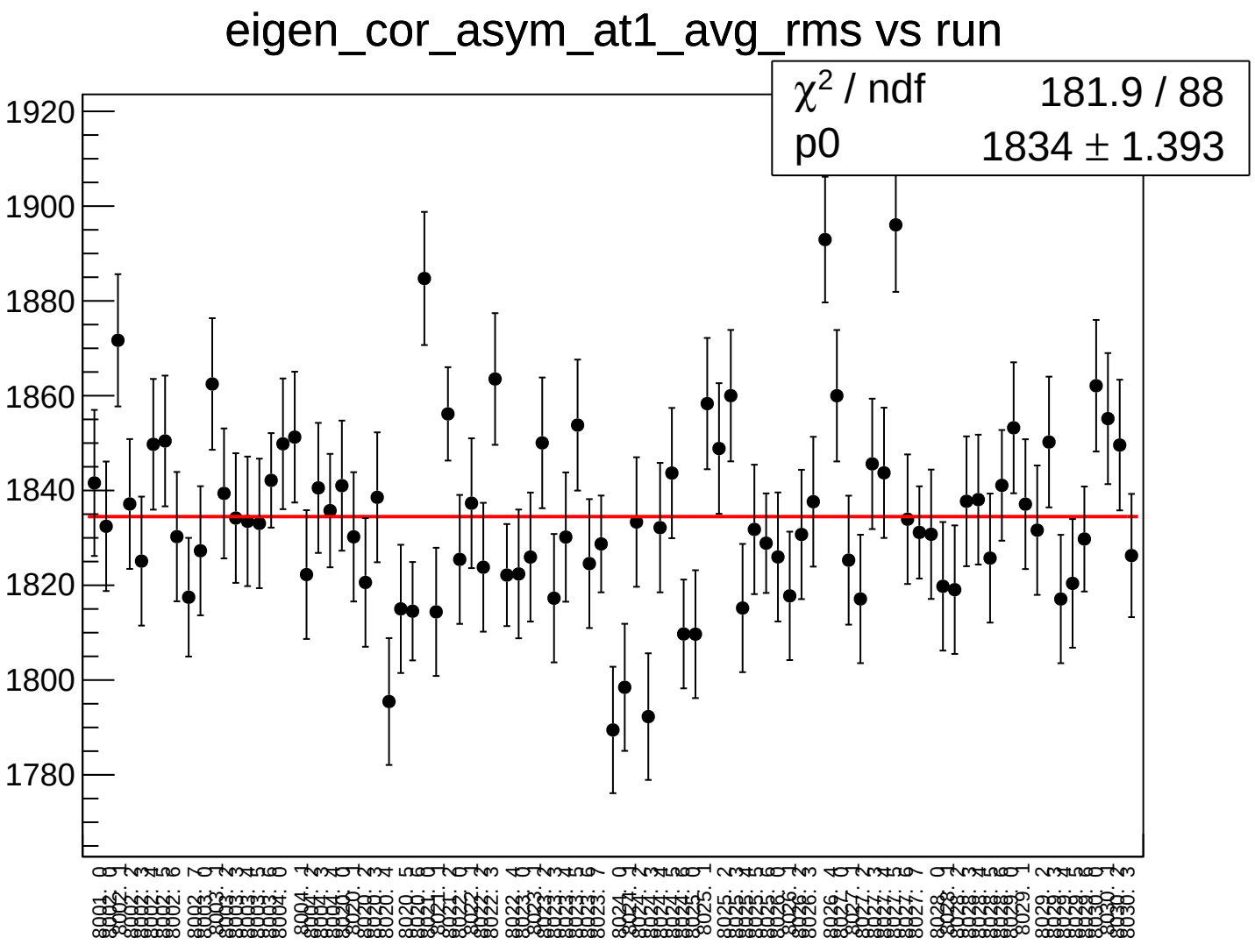

cor_asym_at1_avg_rms vs run
χ^2 / ndf 181.9 / 88
p0 1834 ± 1.393
1920
1900
1880
1860
1840
1820
1800
1780

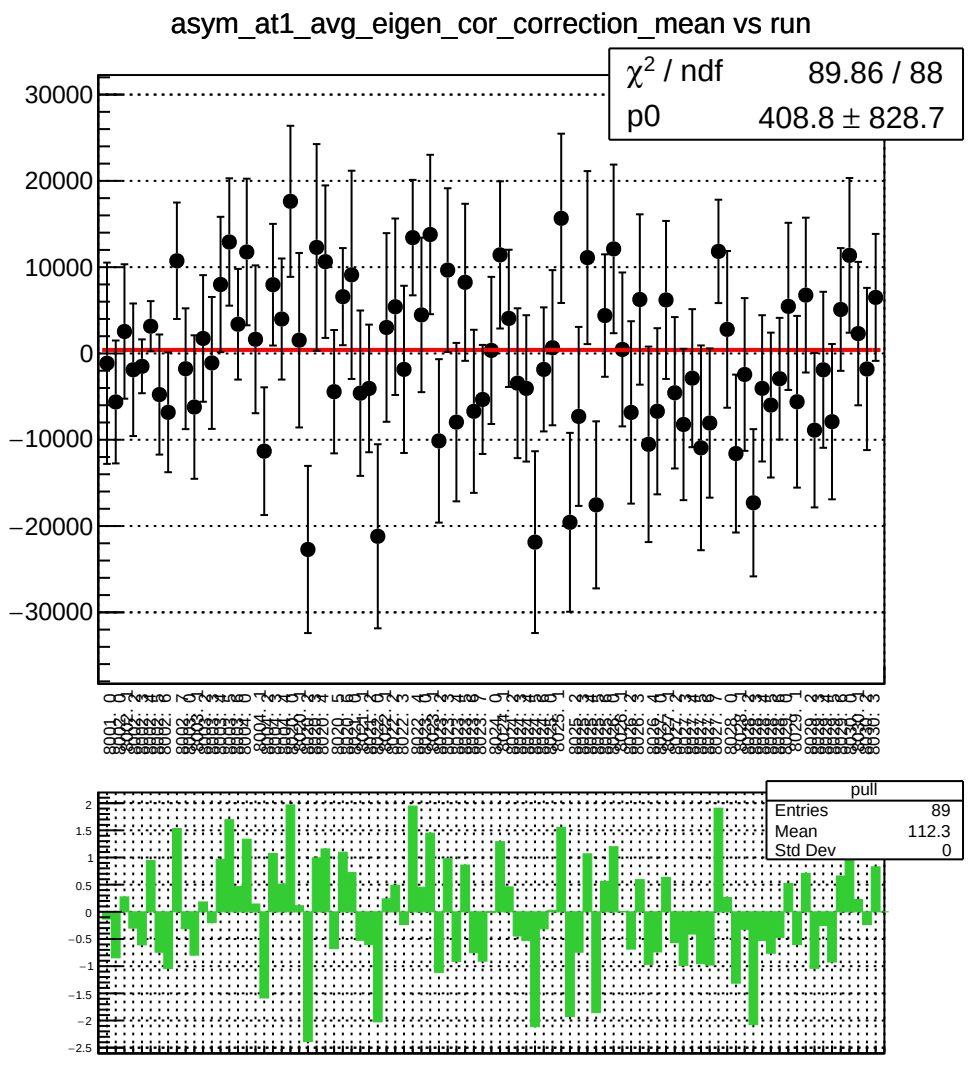

asym_at1_avg_cor_correction_mean vs run
χ² / ndf 89.86 / 88
p0 408.8 ± 828.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 112.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

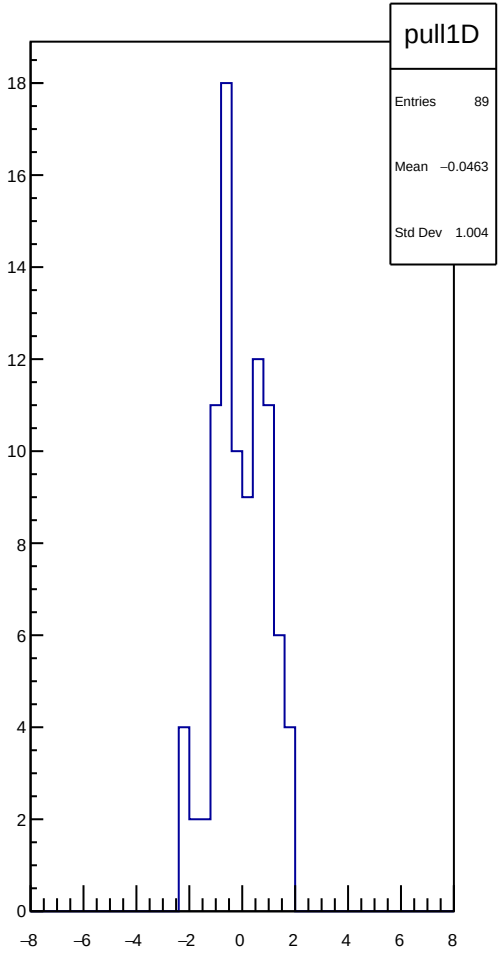

pull1D
Entries 89
Mean −0.0463
Std Dev 1.004
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

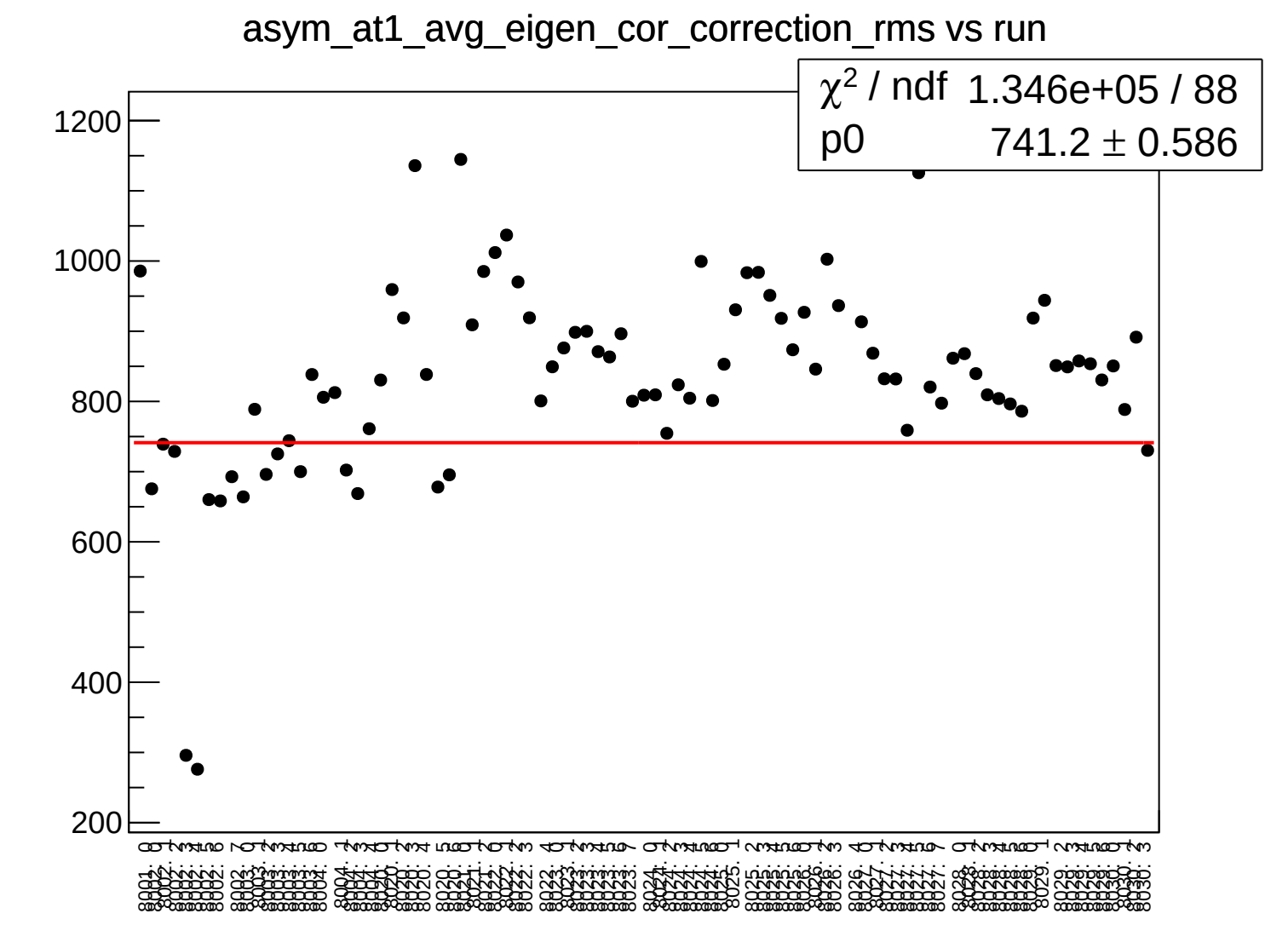

asym_at1_avg_cor_correction_rms vs run
χ² / ndf 1.346e+05 / 88
p0 741.2 ± 0.586
1200
1000
800
600
400
200

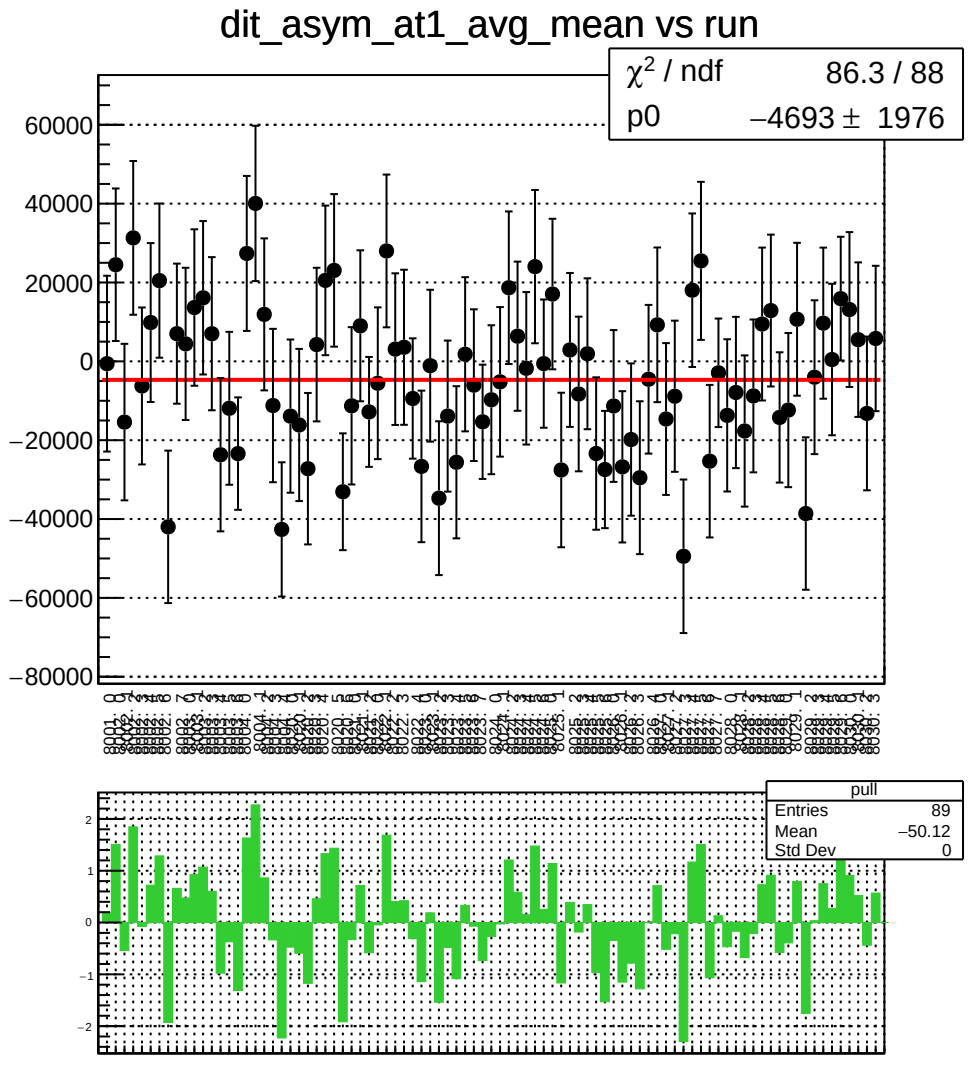

eigen_cor_asym_at1_avg_mean vs run
χ² / ndf 87.89 / 88
p0 −4662 ± 1970
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −53.74
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.02464
Std Dev 0.9934
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

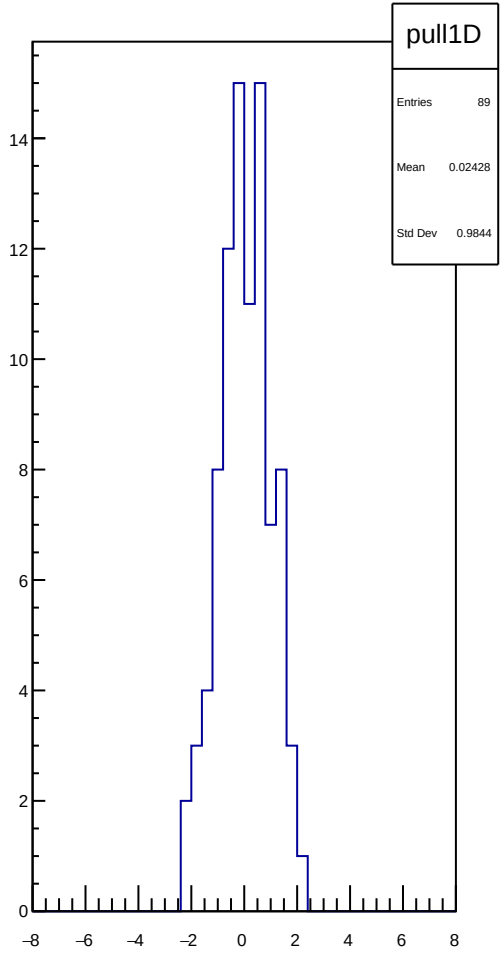

eigen_cor_asym_at1_avg_rms vs run
χ² / ndf 181.9 / 88
p0 1834 ± 1.393
1920
1900
1880
1860
1840
1820
1800
1780

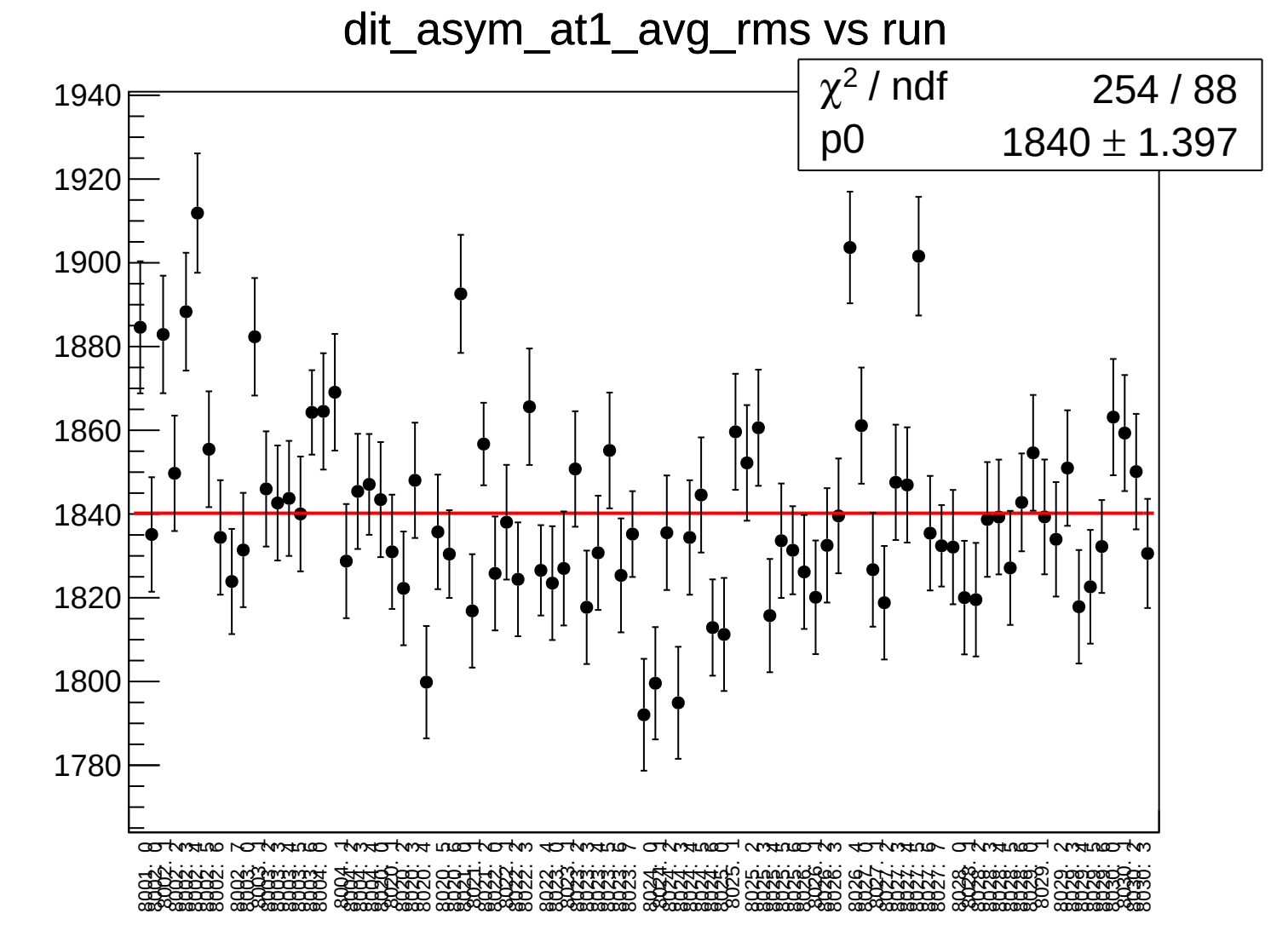

asym_at1_avg_eigen_cor_correction_mean vs run
χ² / ndf 89.86 / 88
p0 408.8 ± 828.7
pull
Entries 89
Mean 112.3
Std Dev 0

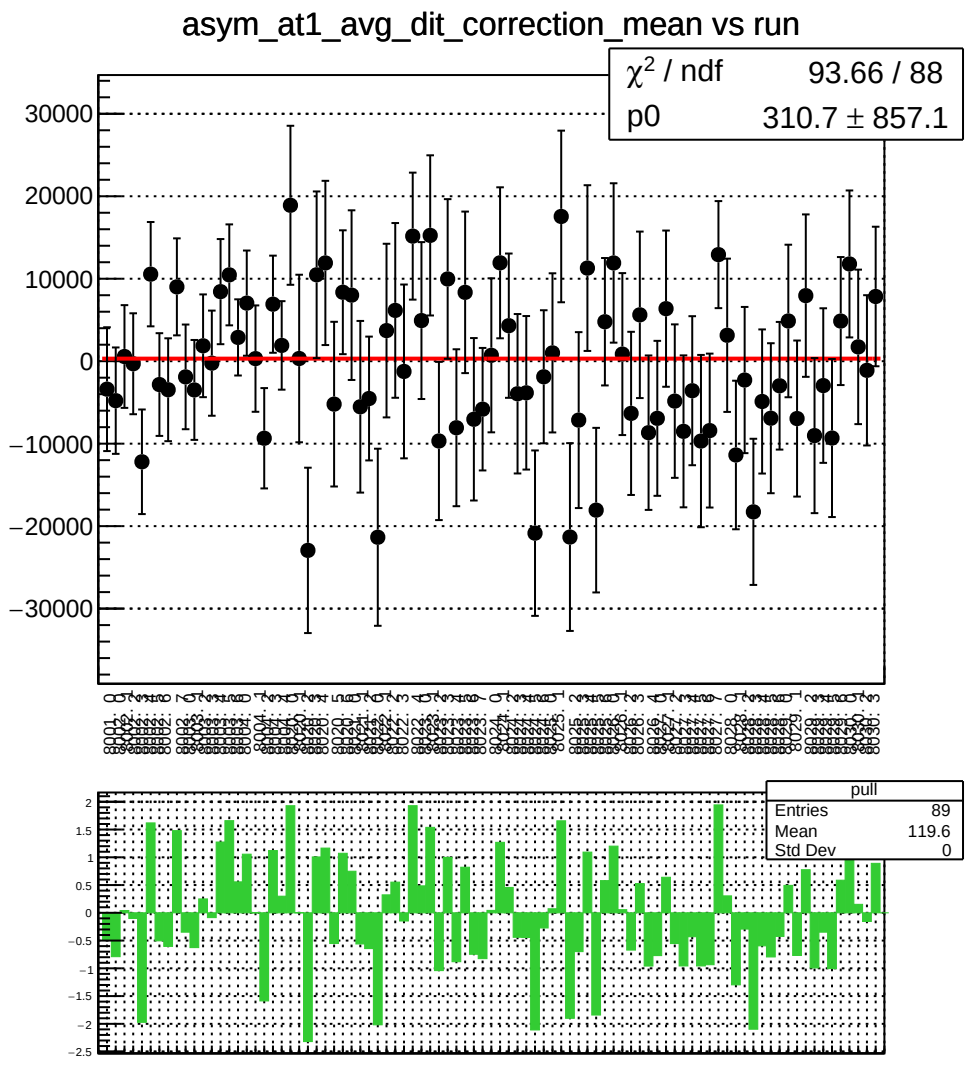

pull1D
Entries 89
Mean −0.0463
Std Dev 1.004

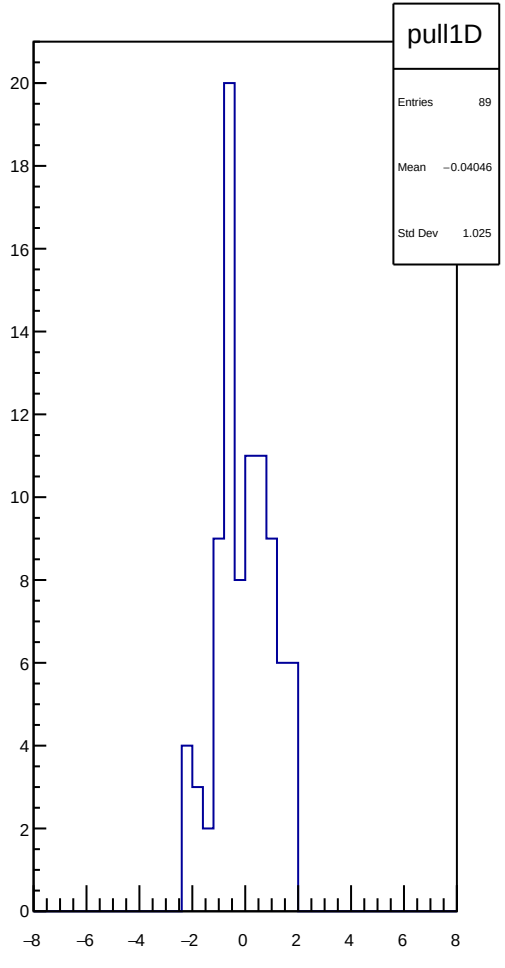

asym_at1_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.346e+05 / 88
p0 741.2 ± 0.586
1200
1000
800
600
400
200

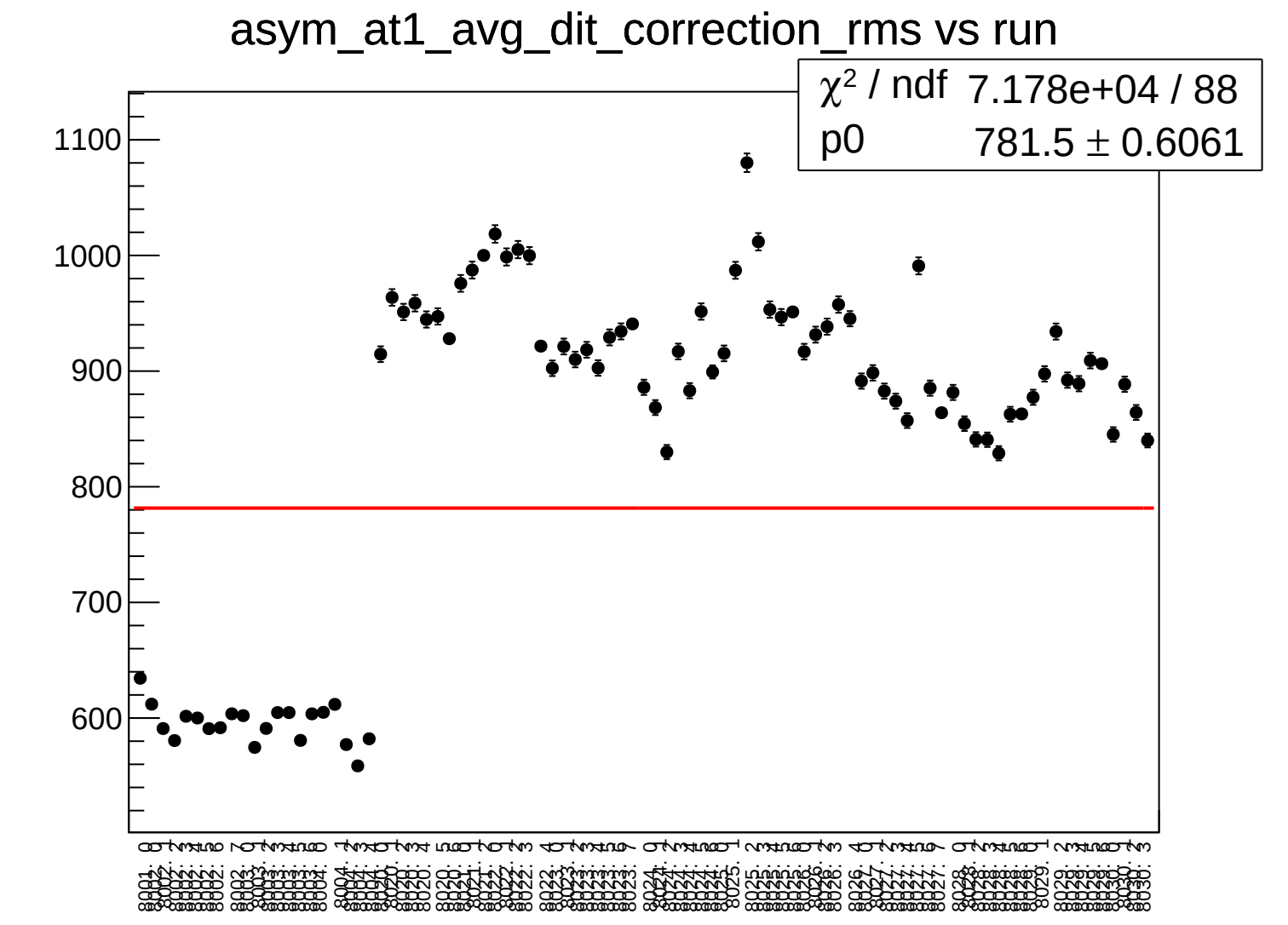

dit_asym_at1_avg_mean vs run
χ² / ndf 86.3 / 88
p0 −4693 ± 1976
pull
Entries 89
Mean −50.12
Std Dev 0

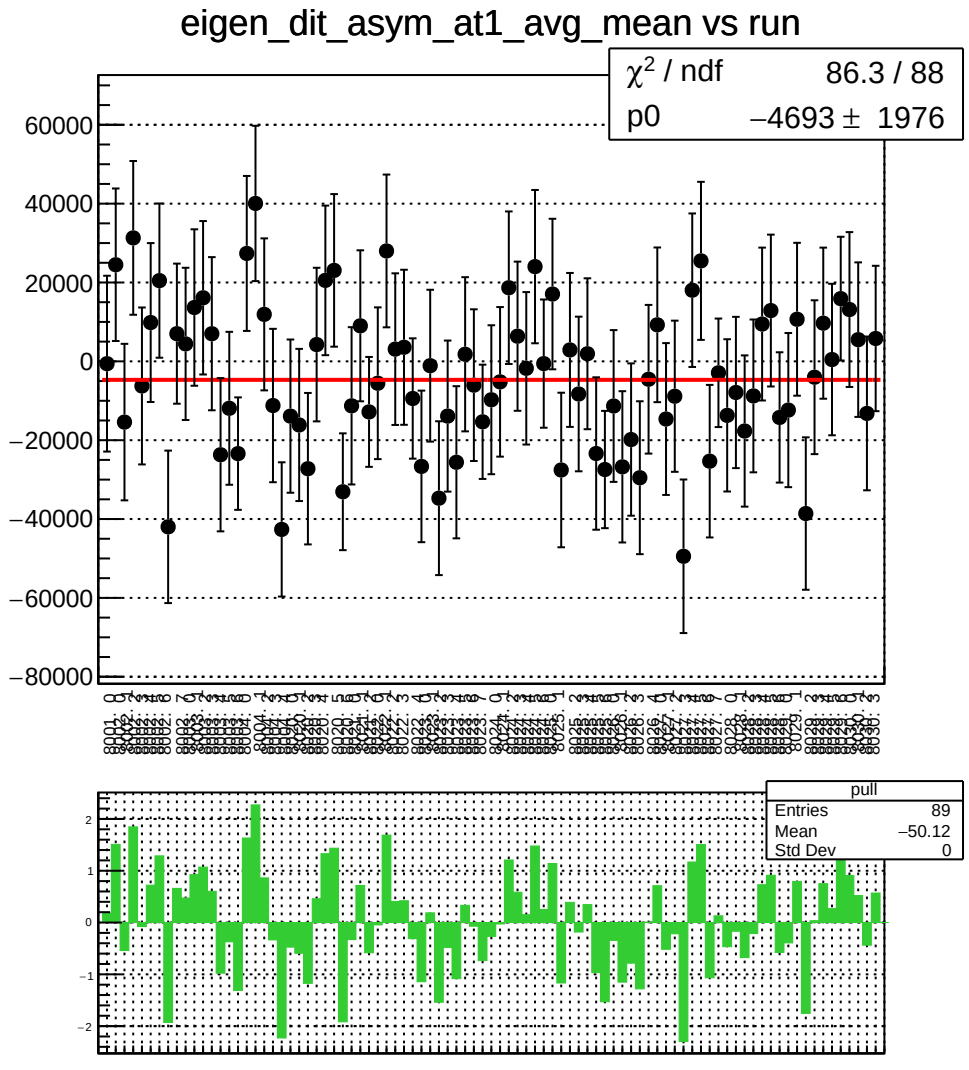

pull1D
Entries 89
Mean 0.02428
Std Dev 0.9844

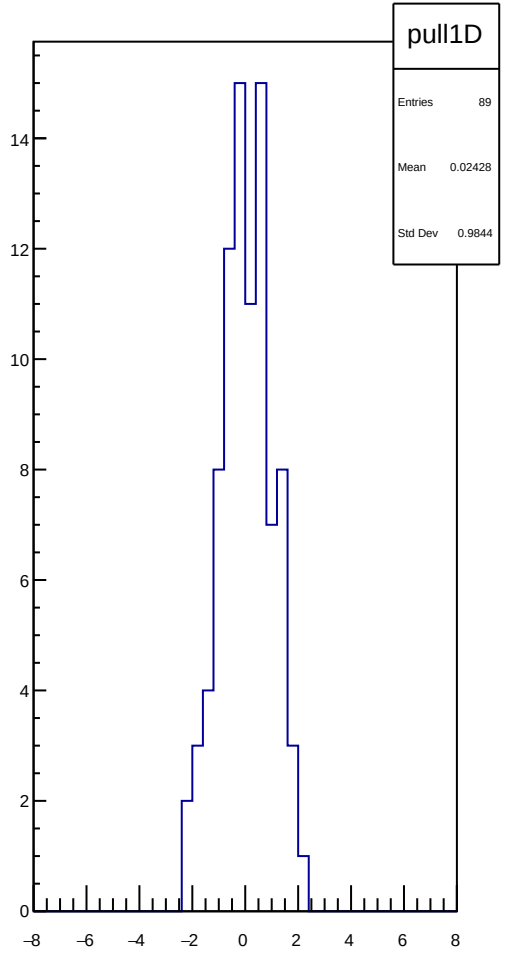

dit_asym_at1_avg_rms vs run
χ² / ndf 254 / 88
p0 1840 ± 1.397
1940
1920
1900
1880
1860
1840
1820
1800
1780

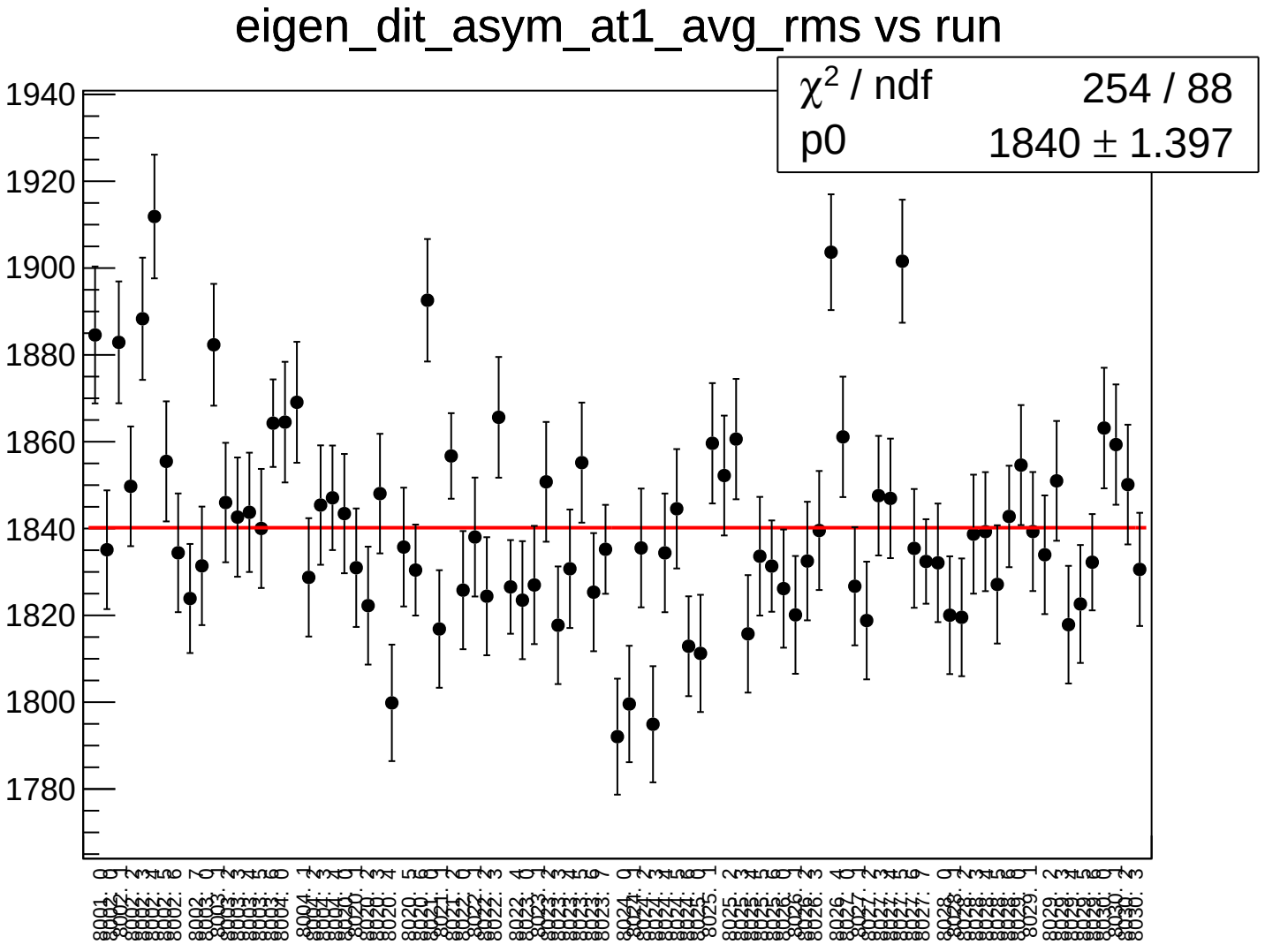

asym_at1_avg_dit_correction_mean vs run
χ² / ndf 93.66 / 88
p0 310.7 ± 857.1
pull
Entries 89
Mean 119.6
Std Dev 0

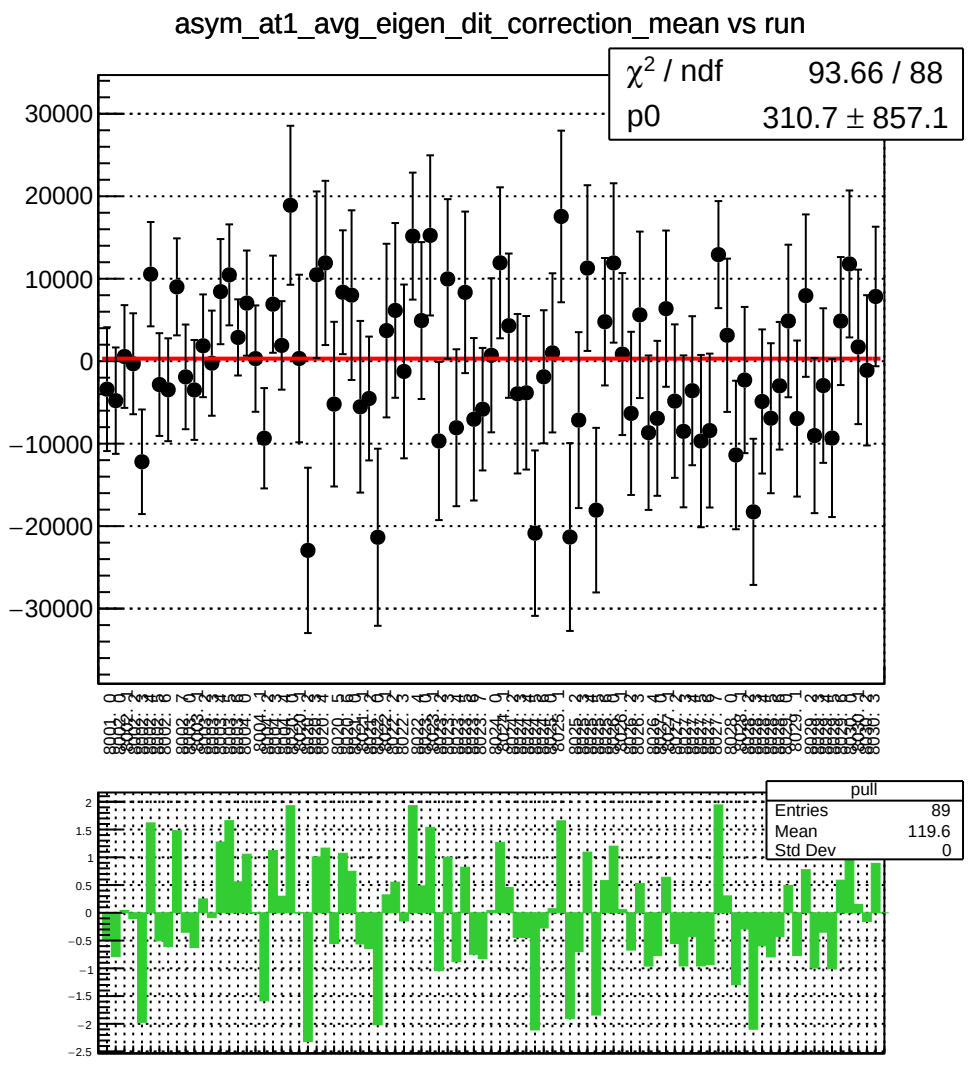

pull1D
Entries 89
Mean −0.04046
Std Dev 1.025

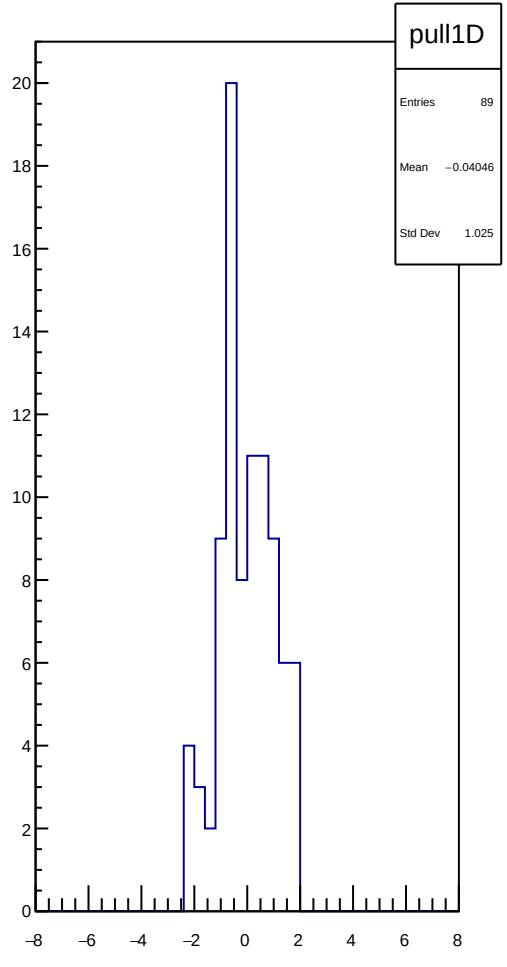

asym_at1_avg_dit_correction_rms vs run
χ² / ndf 7.178e+04 / 88
p0 781.5 ± 0.6061
1100
1000
900
800
700
600

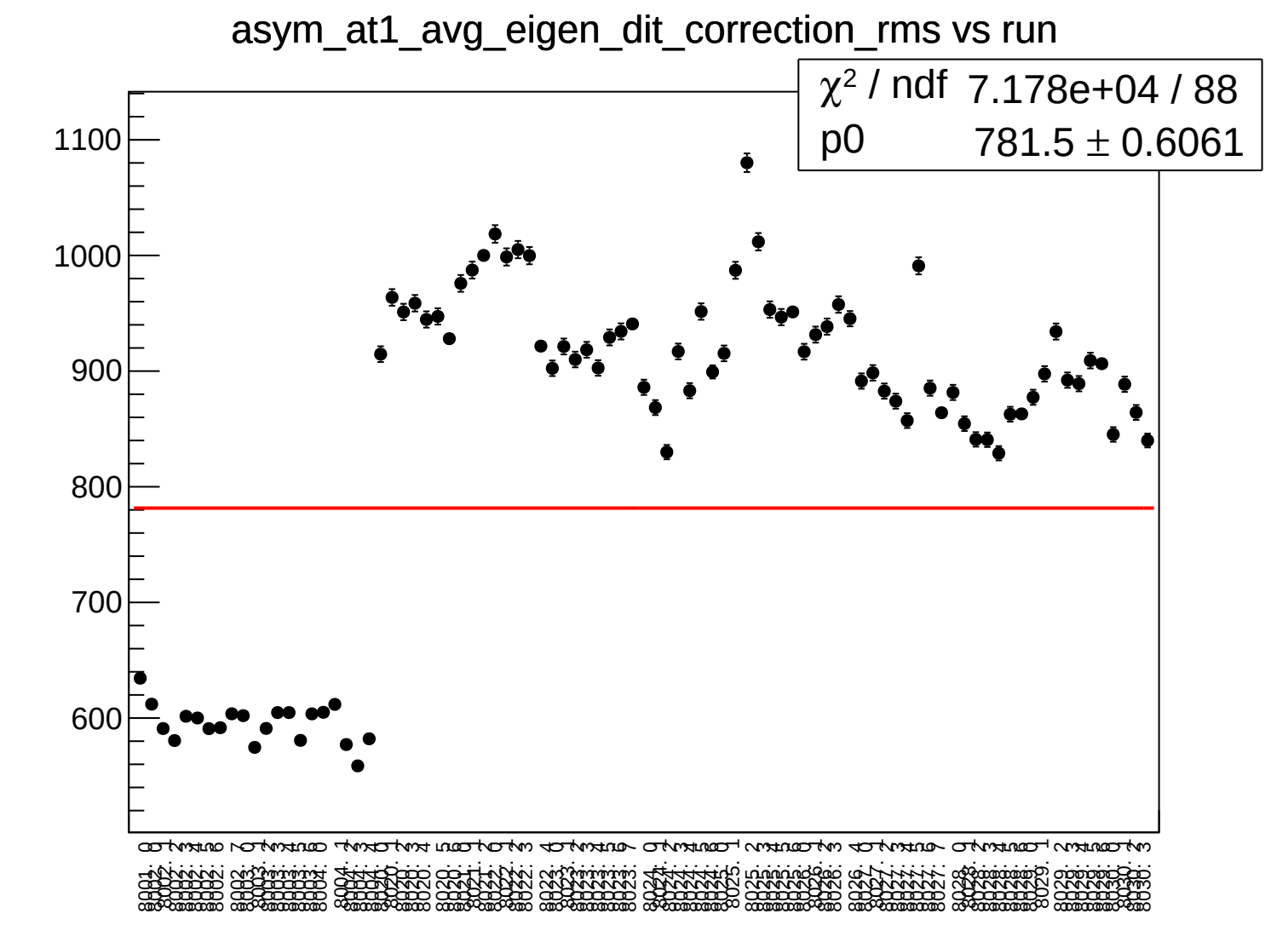

eigen_dit_asym_at1_avg_mean vs run
χ² / ndf 86.3 / 88
p0 −4693 ± 1976
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −50.12
Std Dev 0
2
1
0
−1
−2

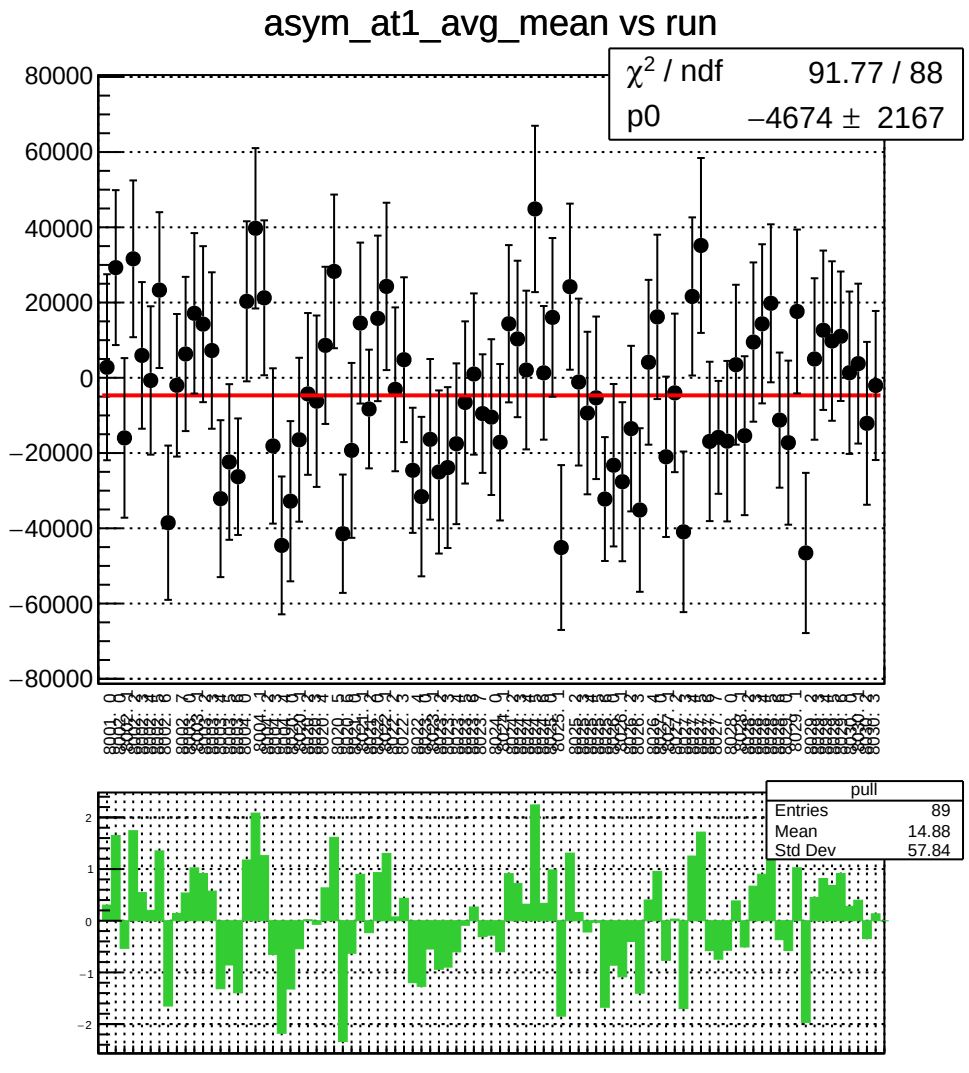

pull1D
Entries 89
Mean 0.02428
Std Dev 0.9844
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

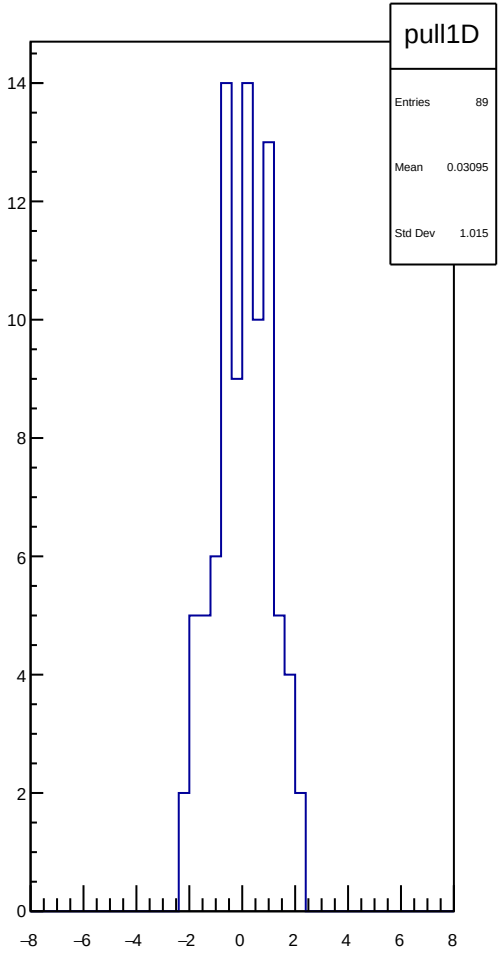

eigen_dit_asym_at1_avg_rms vs run
χ² / ndf 254 / 88
p0 1840 ± 1.397
1940
1920
1900
1880
1860
1840
1820
1800
1780

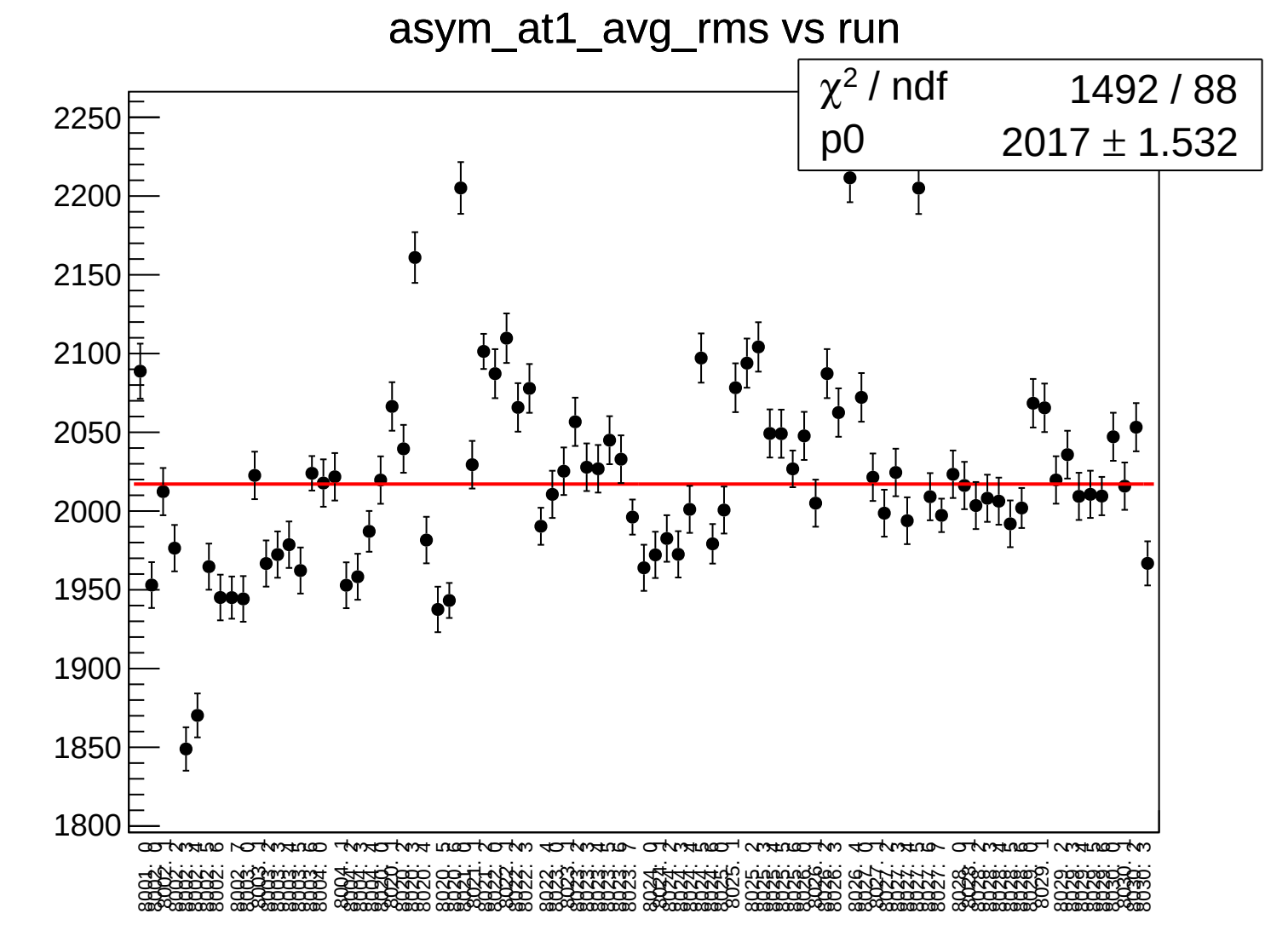

asym_at1_avg_eigen_dit_correction_mean vs run
χ² / ndf 93.66 / 88
p0 310.7 ± 857.1
pull
Entries 89
Mean 119.6
Std Dev 0

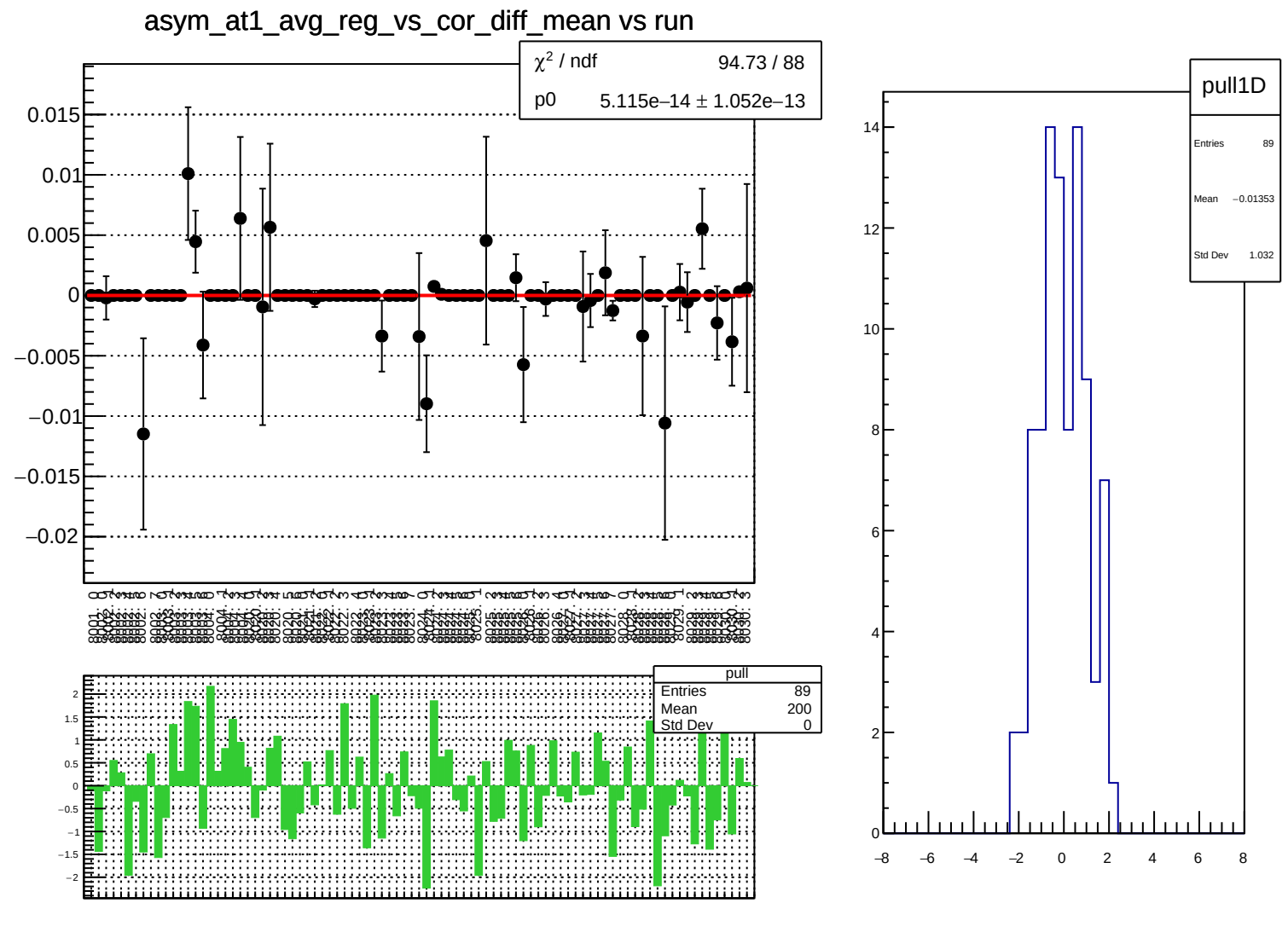

pull1D
Entries 89
Mean −0.04046
Std Dev 1.025

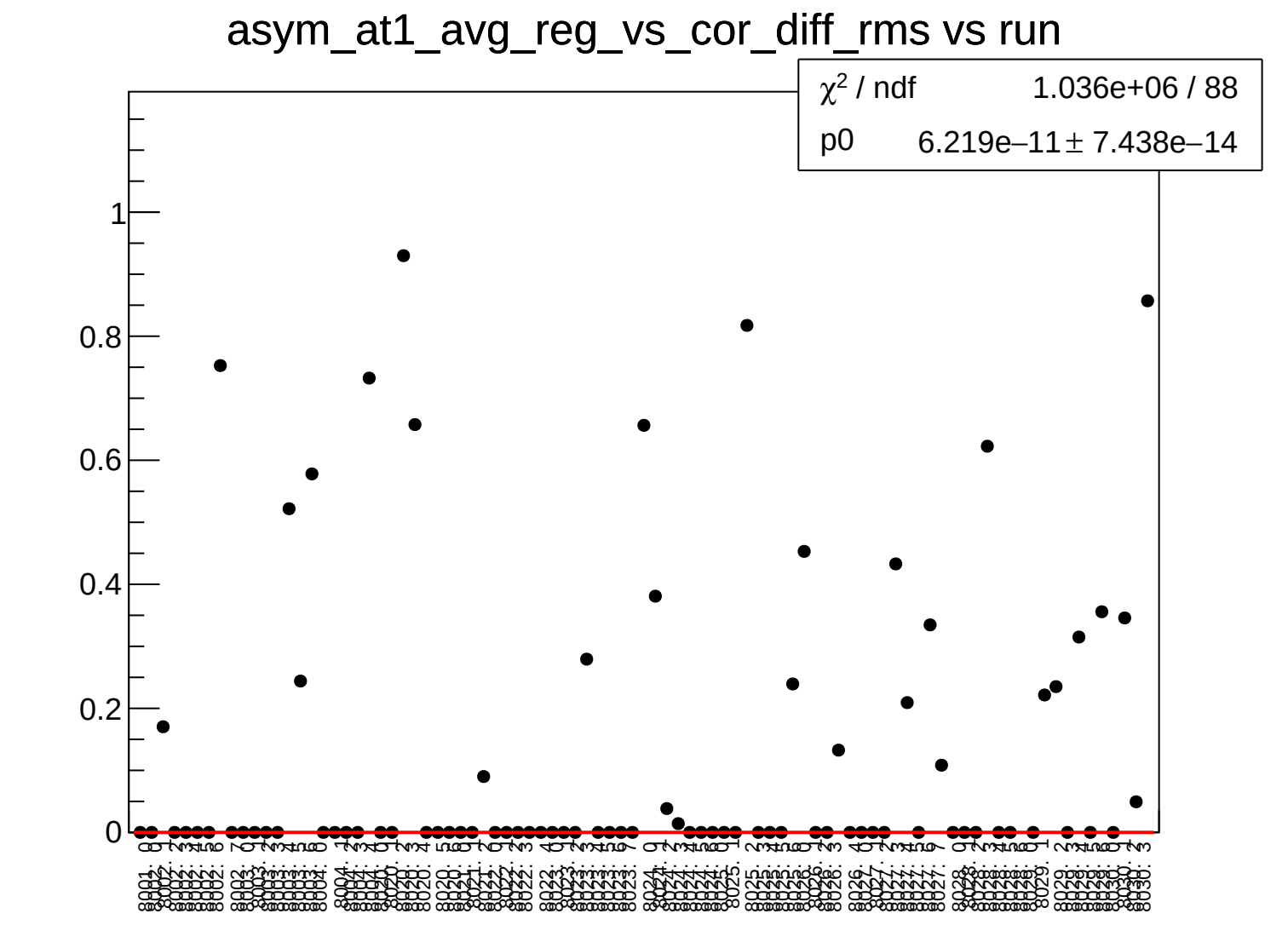

asym_at1_avg_eigen_dit_correction_rms vs run
χ² / ndf 7.178e+04 / 88
p0 781.5 ± 0.6061
1100
1000
900
800
700
600

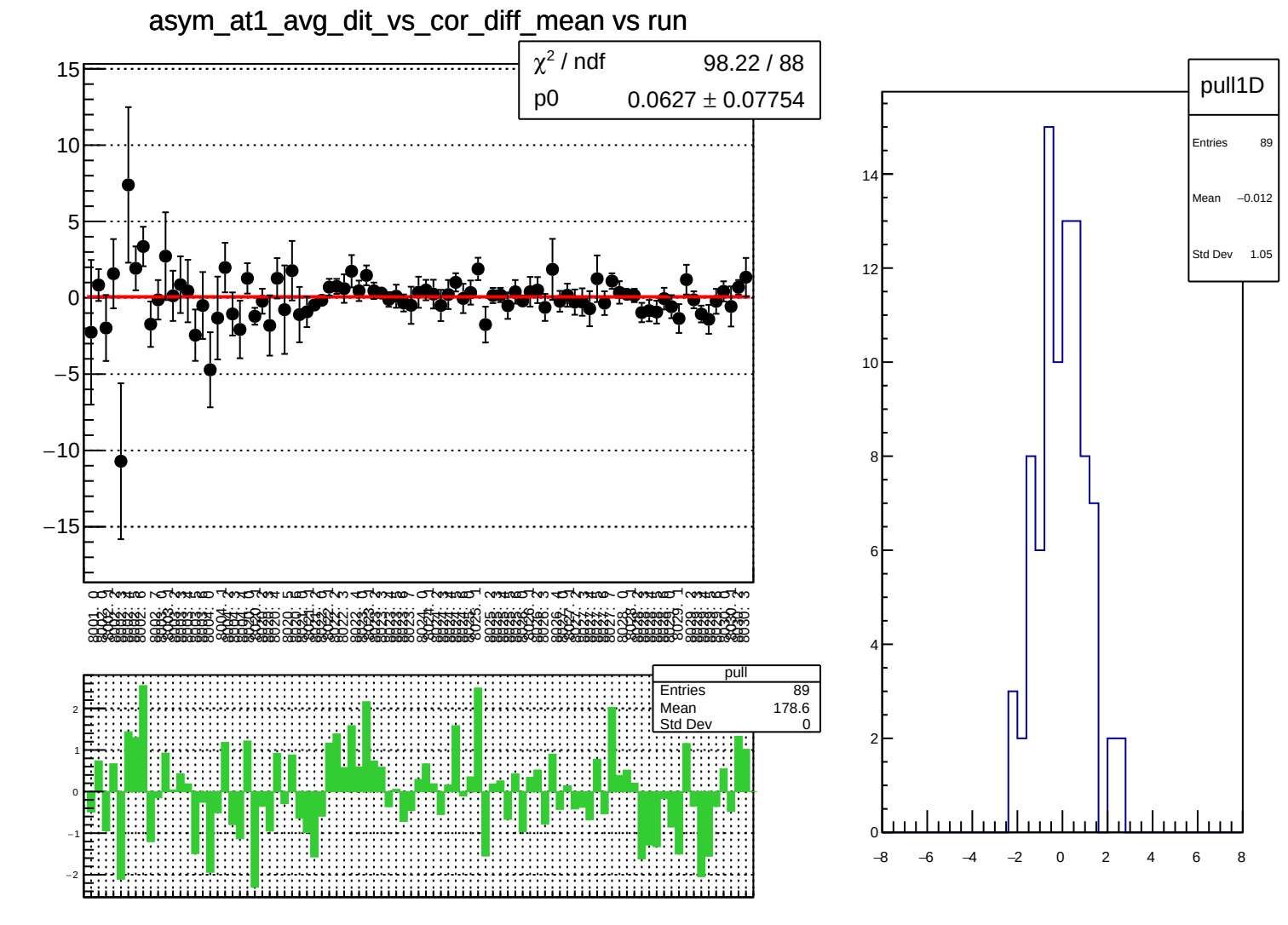

asym_at1_avg_mean vs run
χ² / ndf 91.77 / 88
p0 −4674 ± 2167
pull
Entries 89
Mean 14.88
Std Dev 57.84

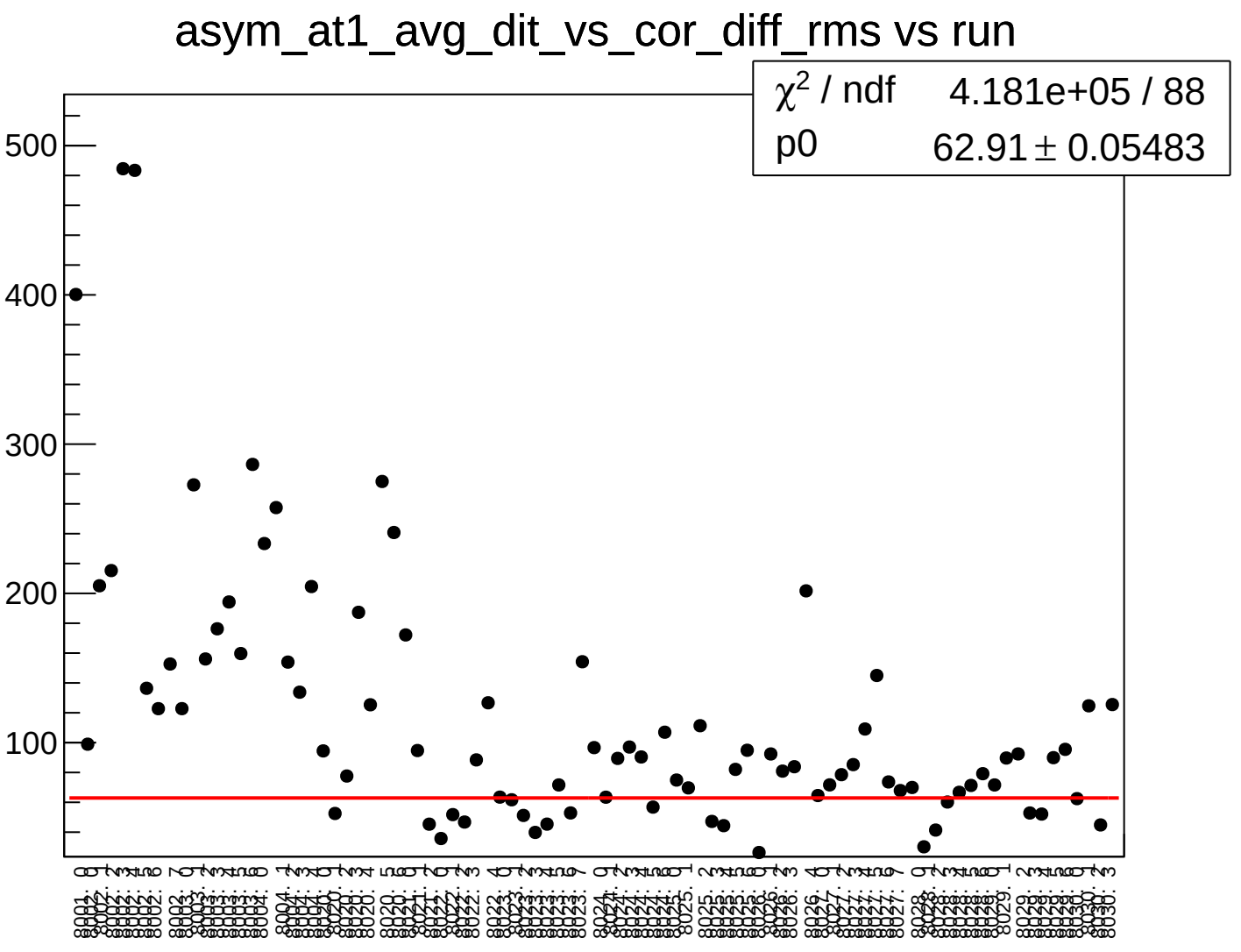

pull1D
Entries 89
Mean 0.03095
Std Dev 1.015

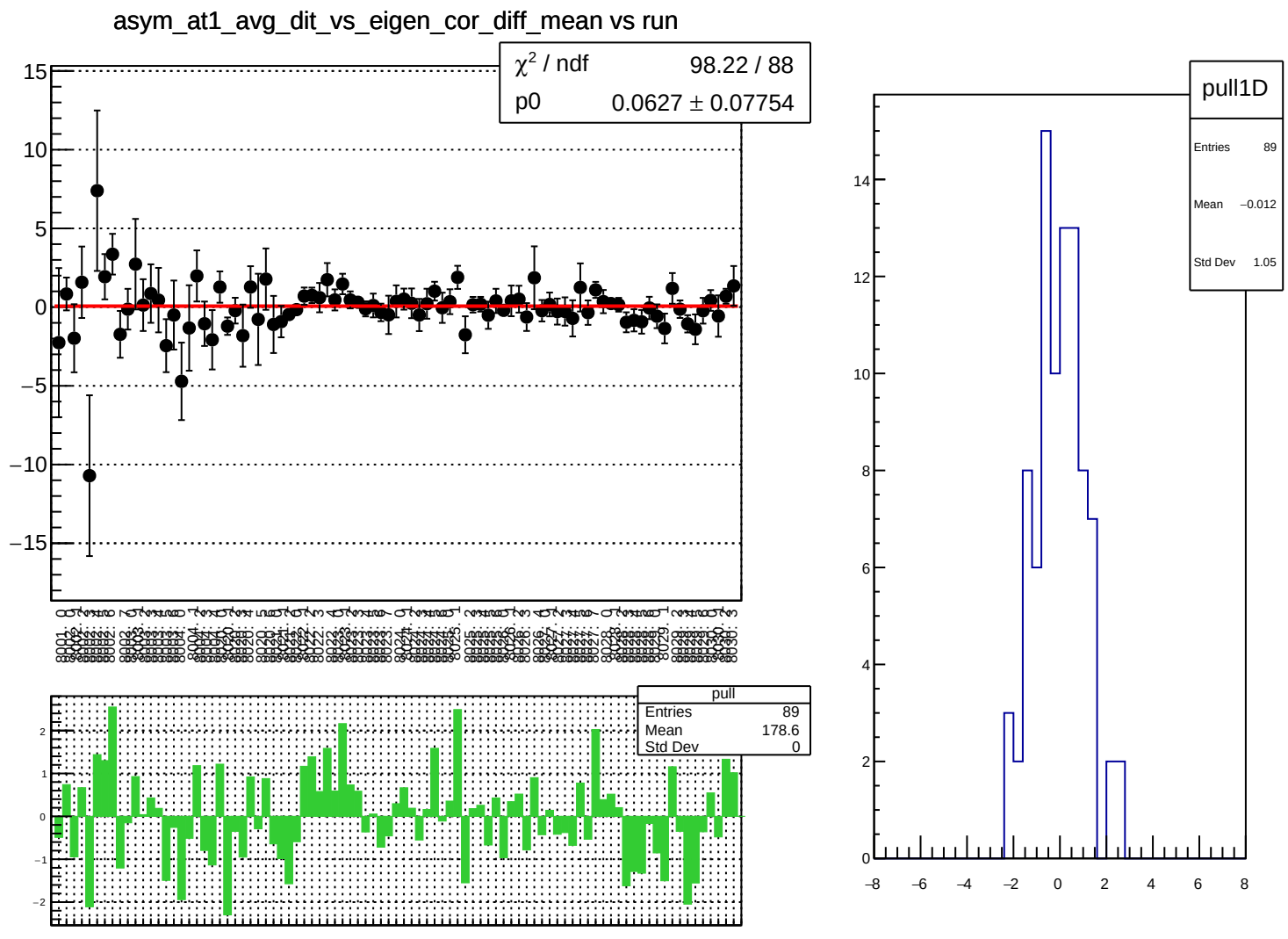

asym_at1_avg_rms vs run
χ² / ndf 1492 / 88
p0 2017 ± 1.532
2250
2200
2150
2100
2050
2000
1950
1900
1850
1800

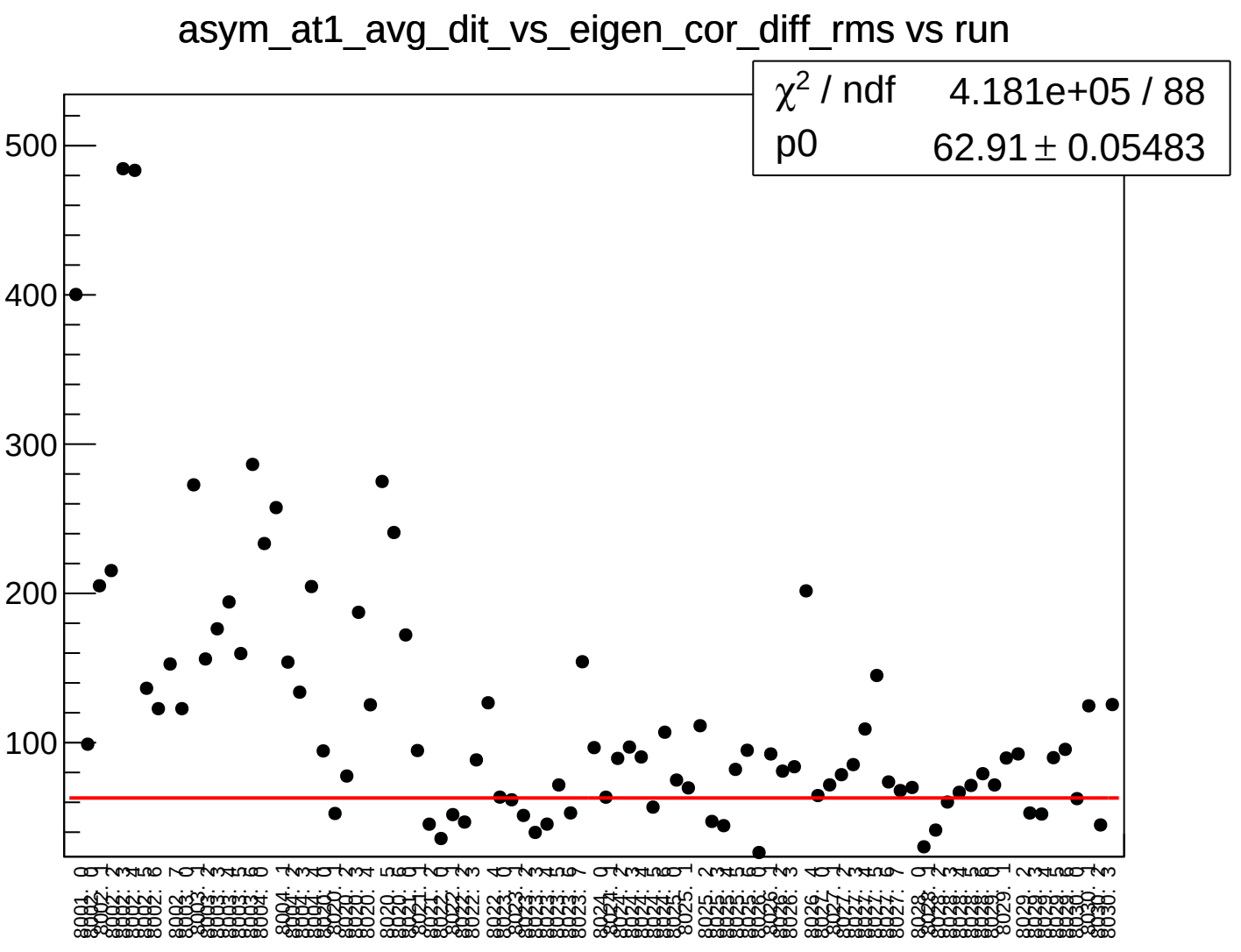

asym_at1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 94.73 / 88
p0 5.115e−14 ± 1.052e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 89
Mean 200
Std Dev 0
pull1D
Entries 89
Mean −0.01353
Std Dev 1.032
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

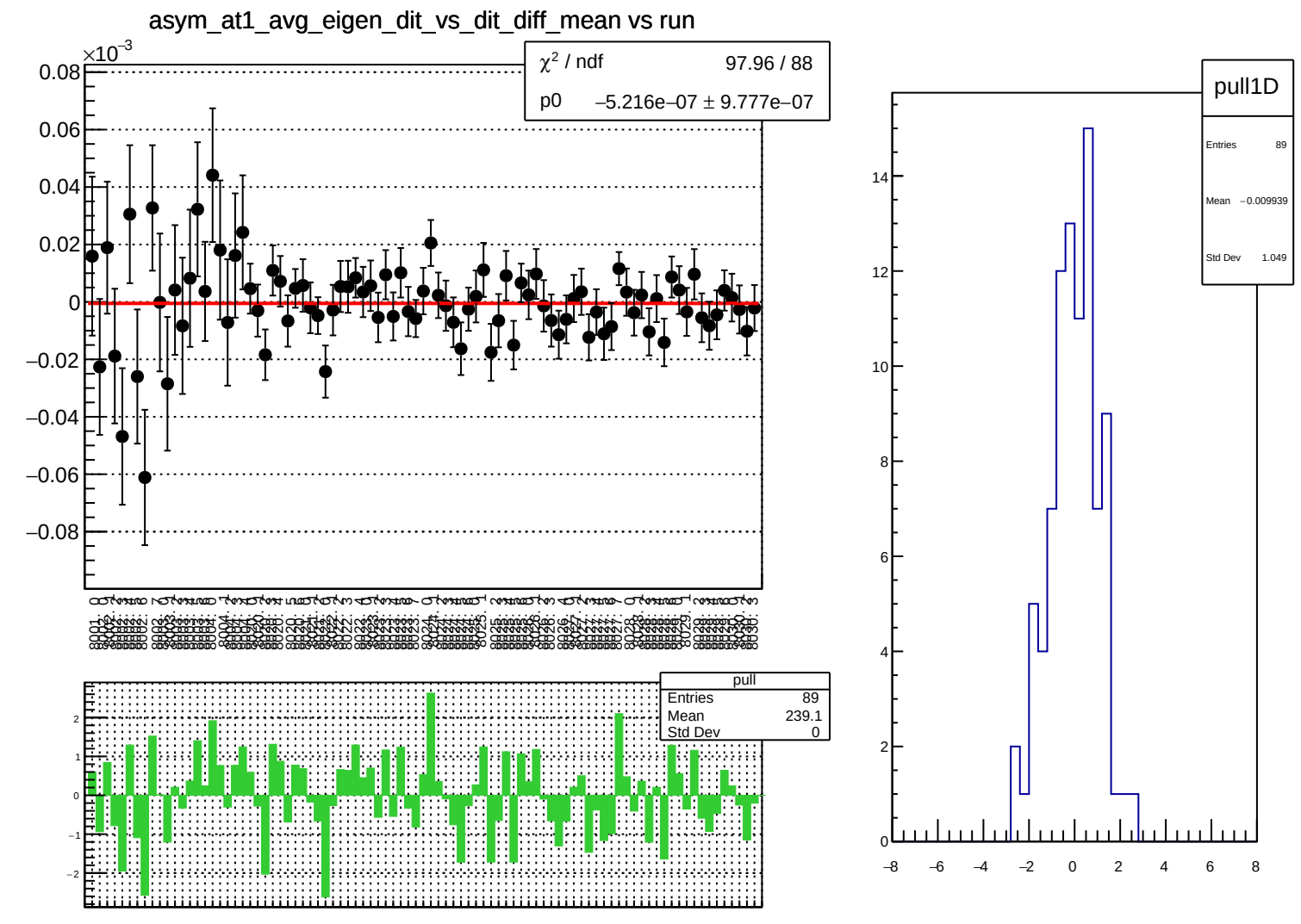

asym_at1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.036e+06 / 88
p0 6.219e−11 ± 7.438e−14
1
0.8
0.6
0.4
0.2
0

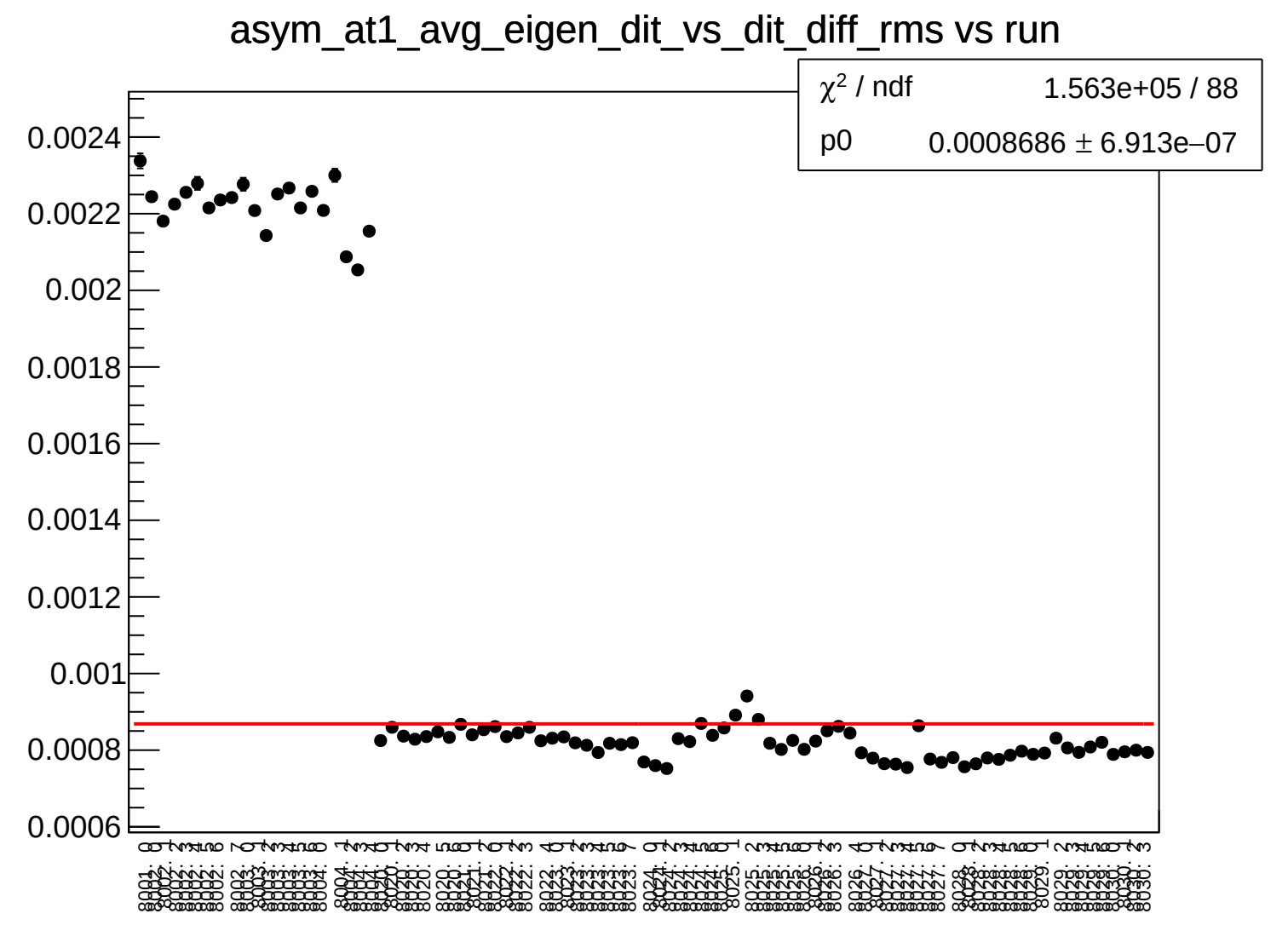

asym_at1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 98.22 / 88
p0 0.0627 ± 0.07754
pull
Entries 89
Mean 178.6
Std Dev 0
pull1D
Entries 89
Mean −0.012
Std Dev 1.05

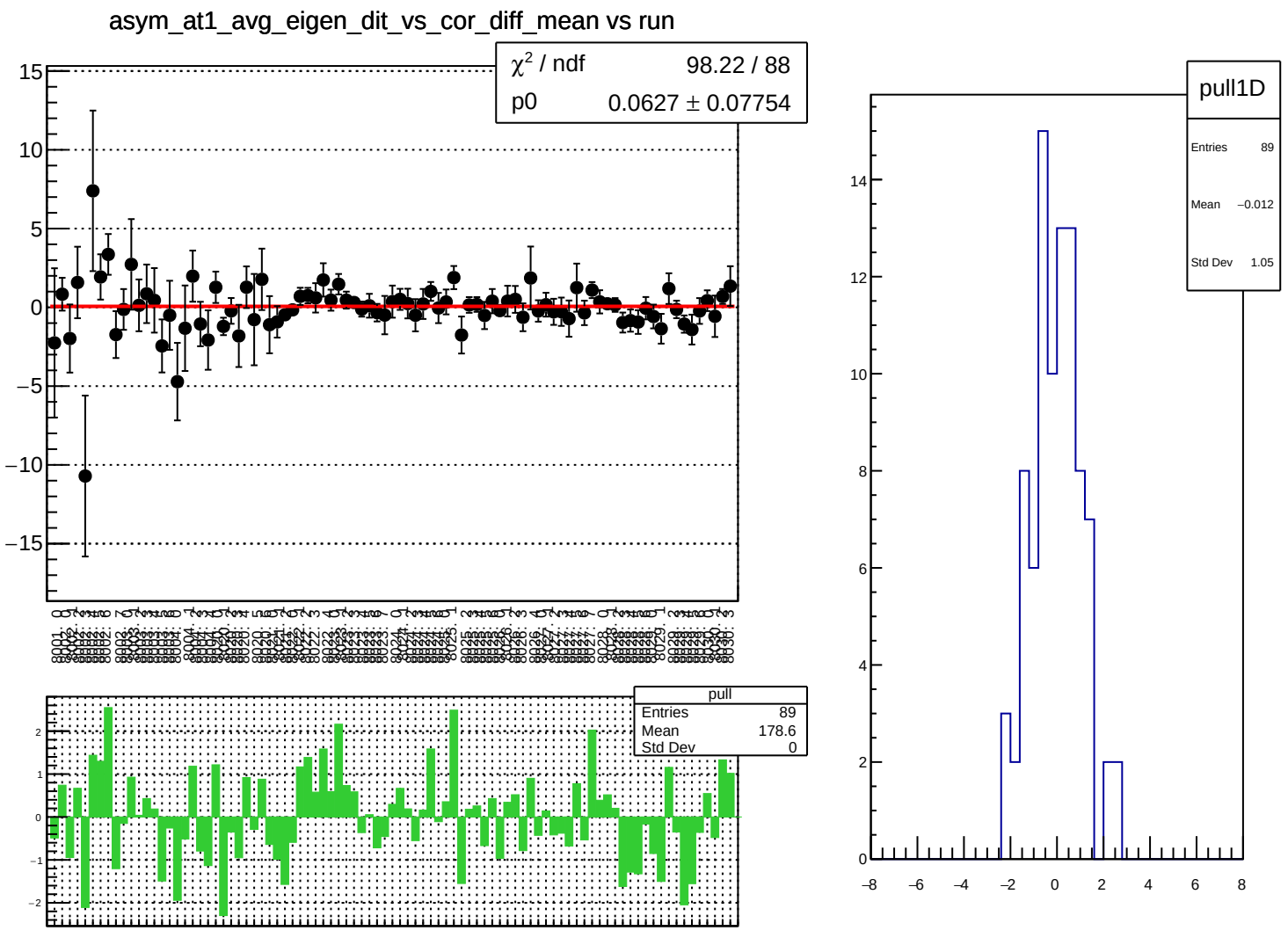

asym_at1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.181e+05 / 88
p0 62.91 ± 0.05483
500
400
300
200
100

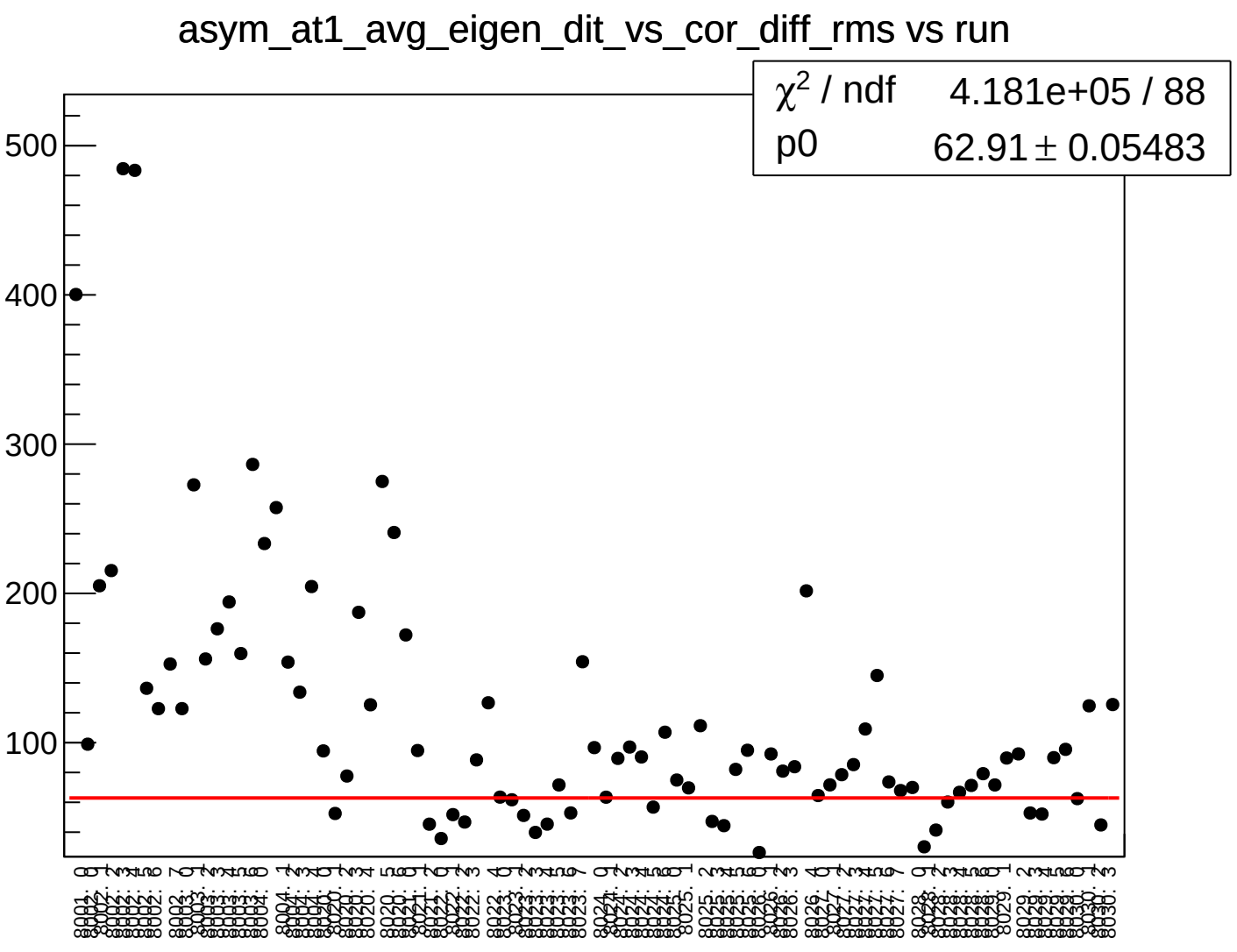

asym_at1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.22 / 88
p0 0.0627 ± 0.07754
pull
Entries 89
Mean 178.6
Std Dev 0
pull1D
Entries 89
Mean −0.012
Std Dev 1.05

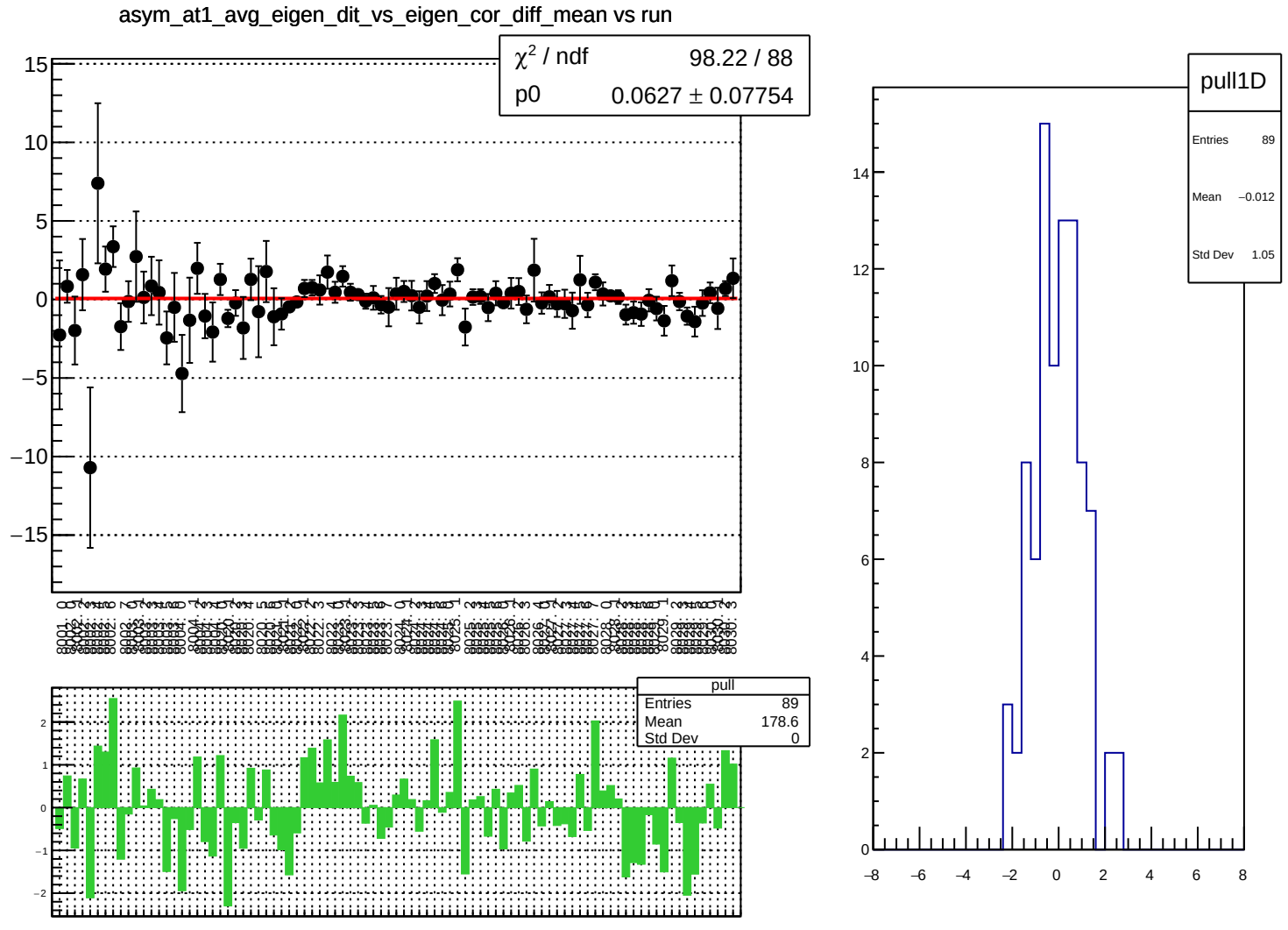

asym_at1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.181e+05 / 88
p0 62.91 ± 0.05483
500
400
300
200
100

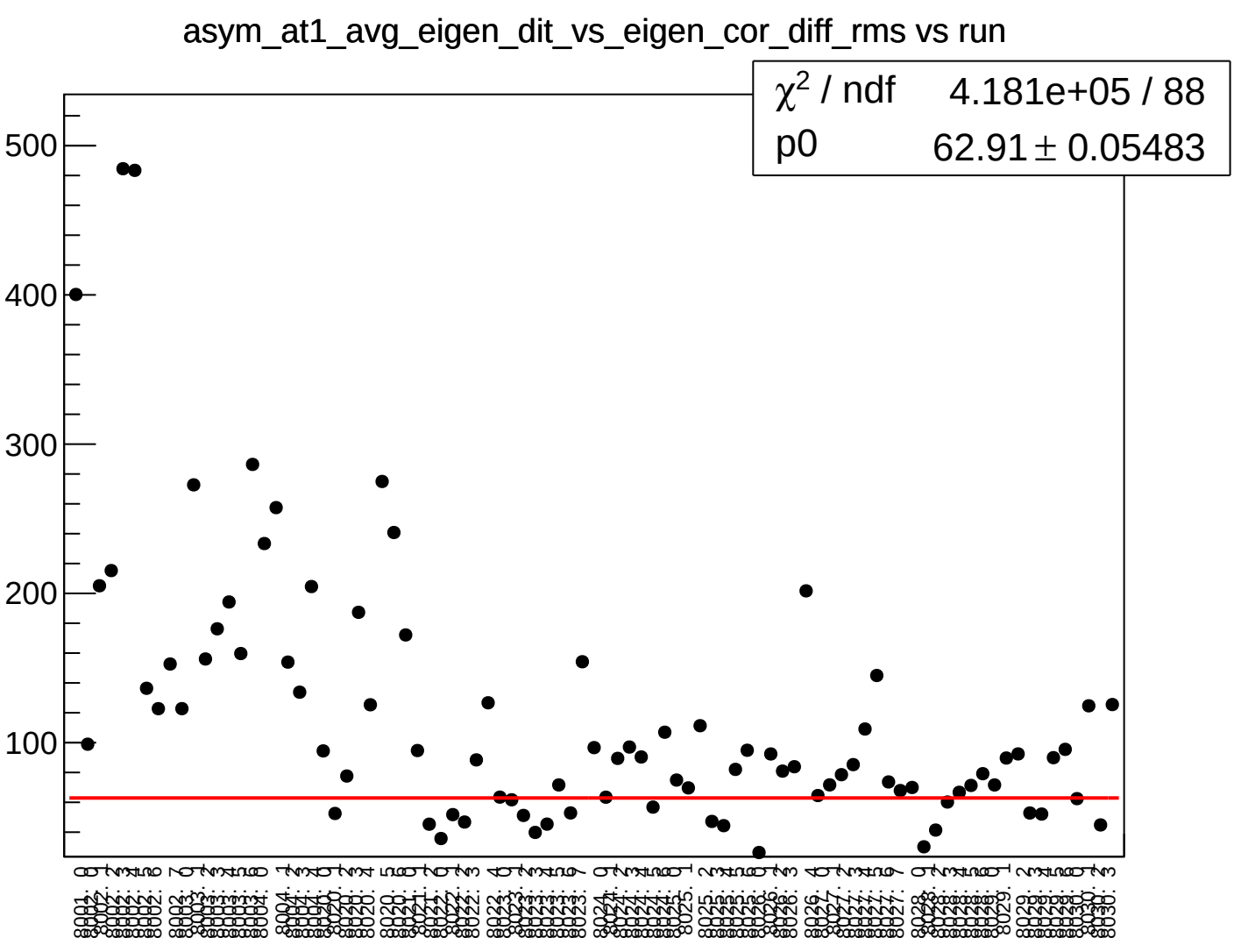

asym_at1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.96 / 88
p0 −5.216e−07 ± 9.777e−07
pull
Entries 89
Mean 239.1
Std Dev 0
pull1D
Entries 89
Mean −0.009939
Std Dev 1.049

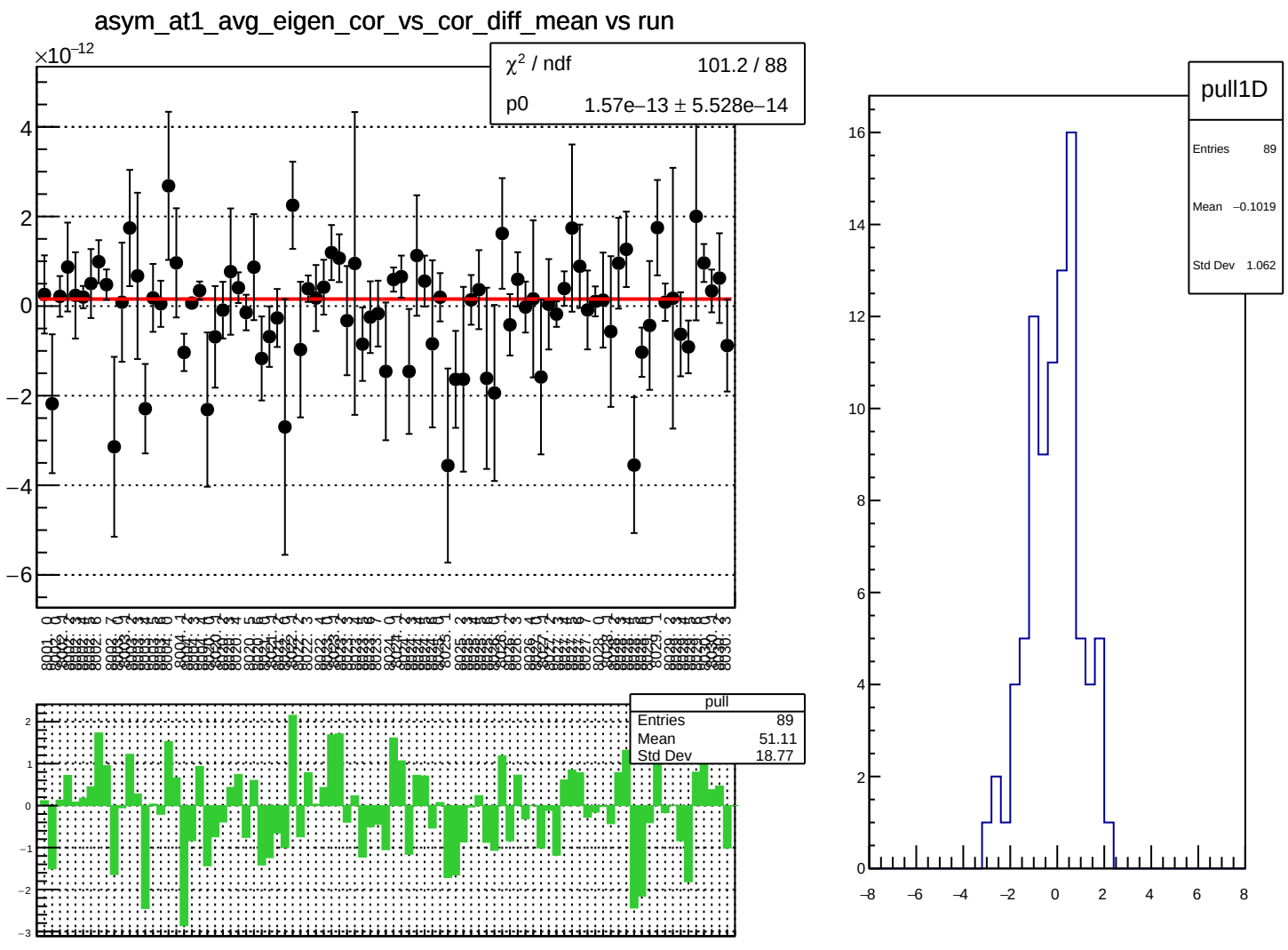

asym_at1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.563e+05 / 88
p0 0.0008686 ± 6.913e−07
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006

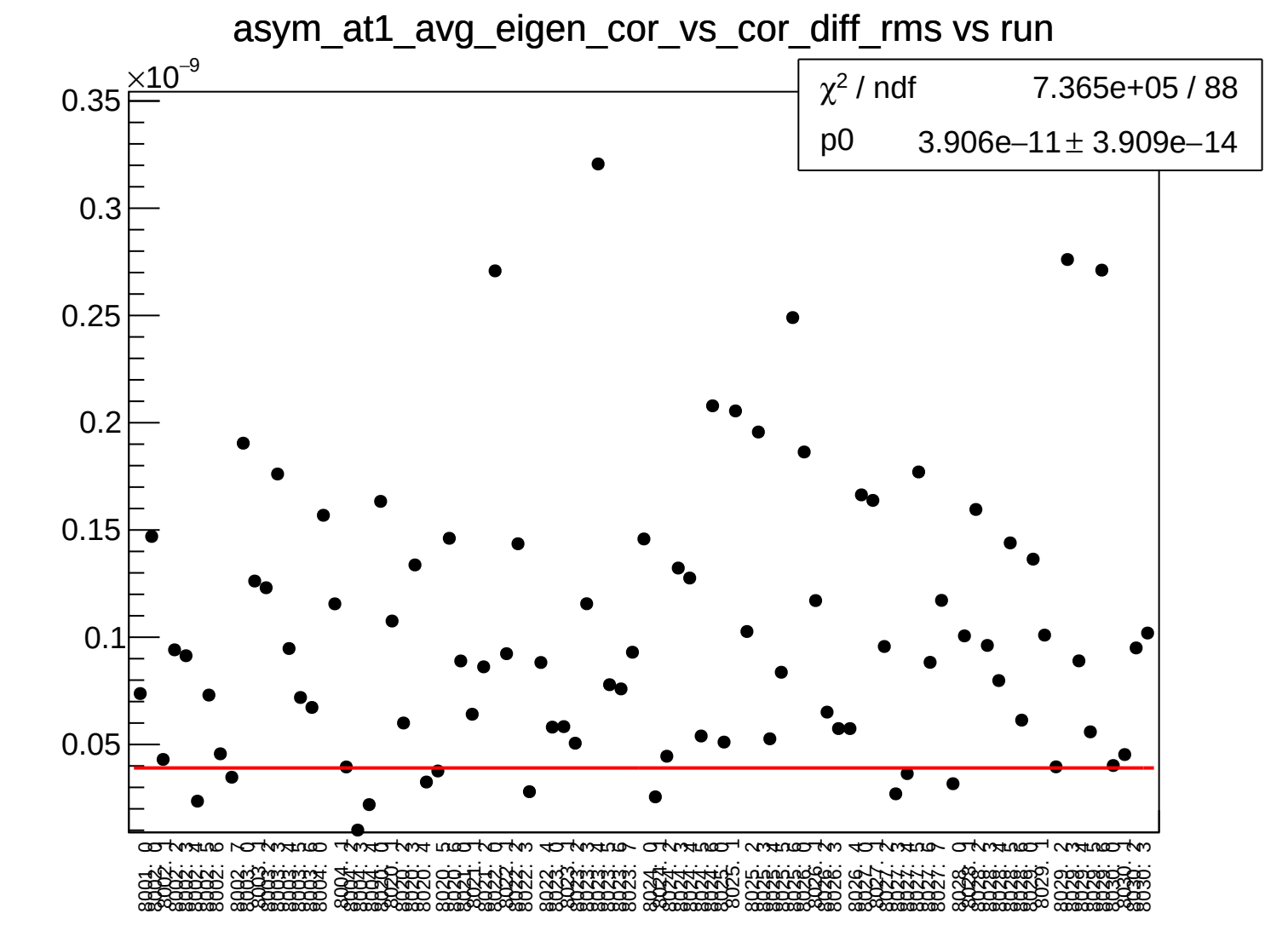

asym_at1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 98.22 / 88
p0 0.0627 ± 0.07754
pull
Entries 89
Mean 178.6
Std Dev 0
pull1D
Entries 89
Mean −0.012
Std Dev 1.05

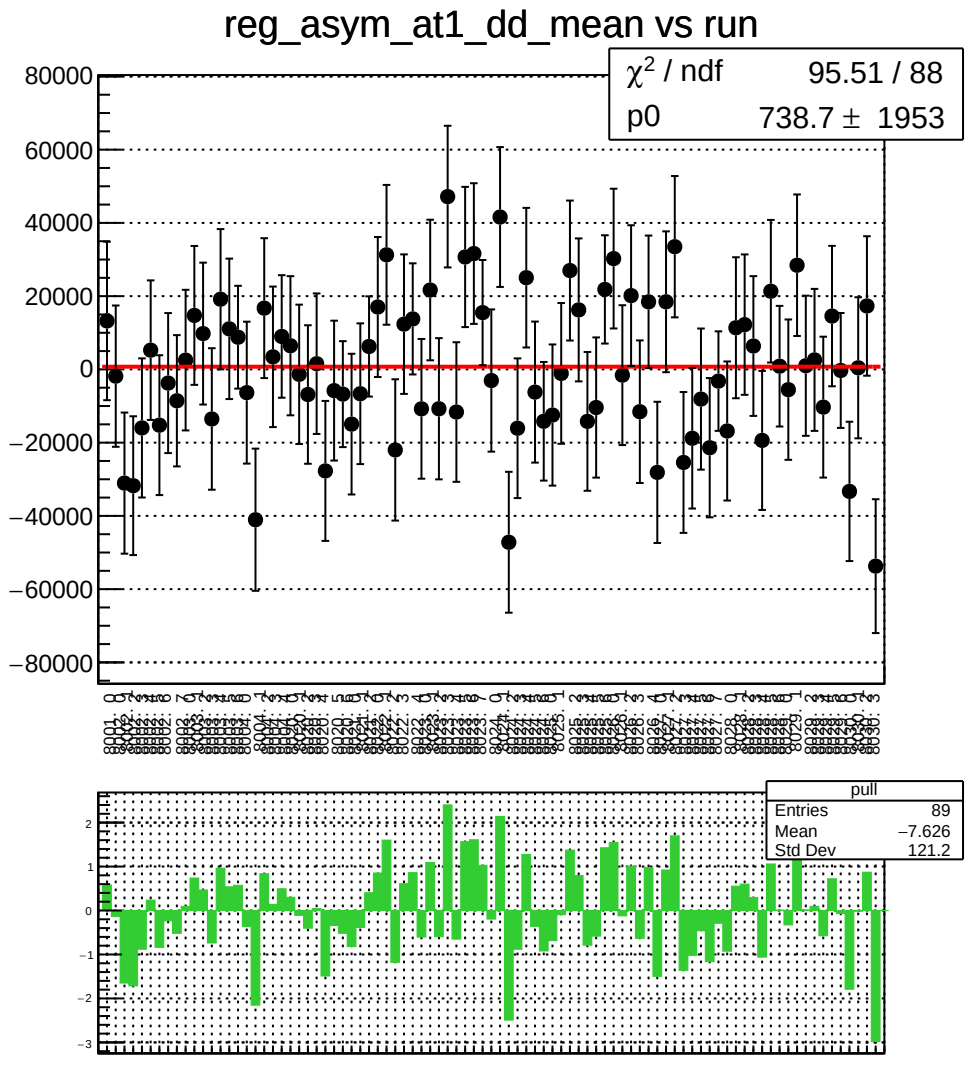

asym_at1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.181e+05 / 88
p0 62.91 ± 0.05483
500
400
300
200
100

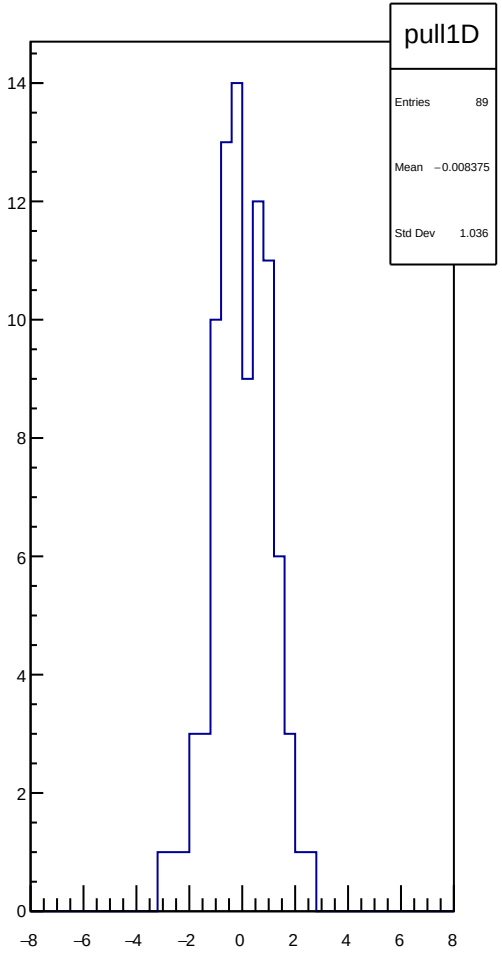

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.22 / 88
p0 0.0627 ± 0.07754
pull
Entries 89
Mean 178.6
Std Dev 0
pull1D
Entries 89
Mean −0.012
Std Dev 1.05

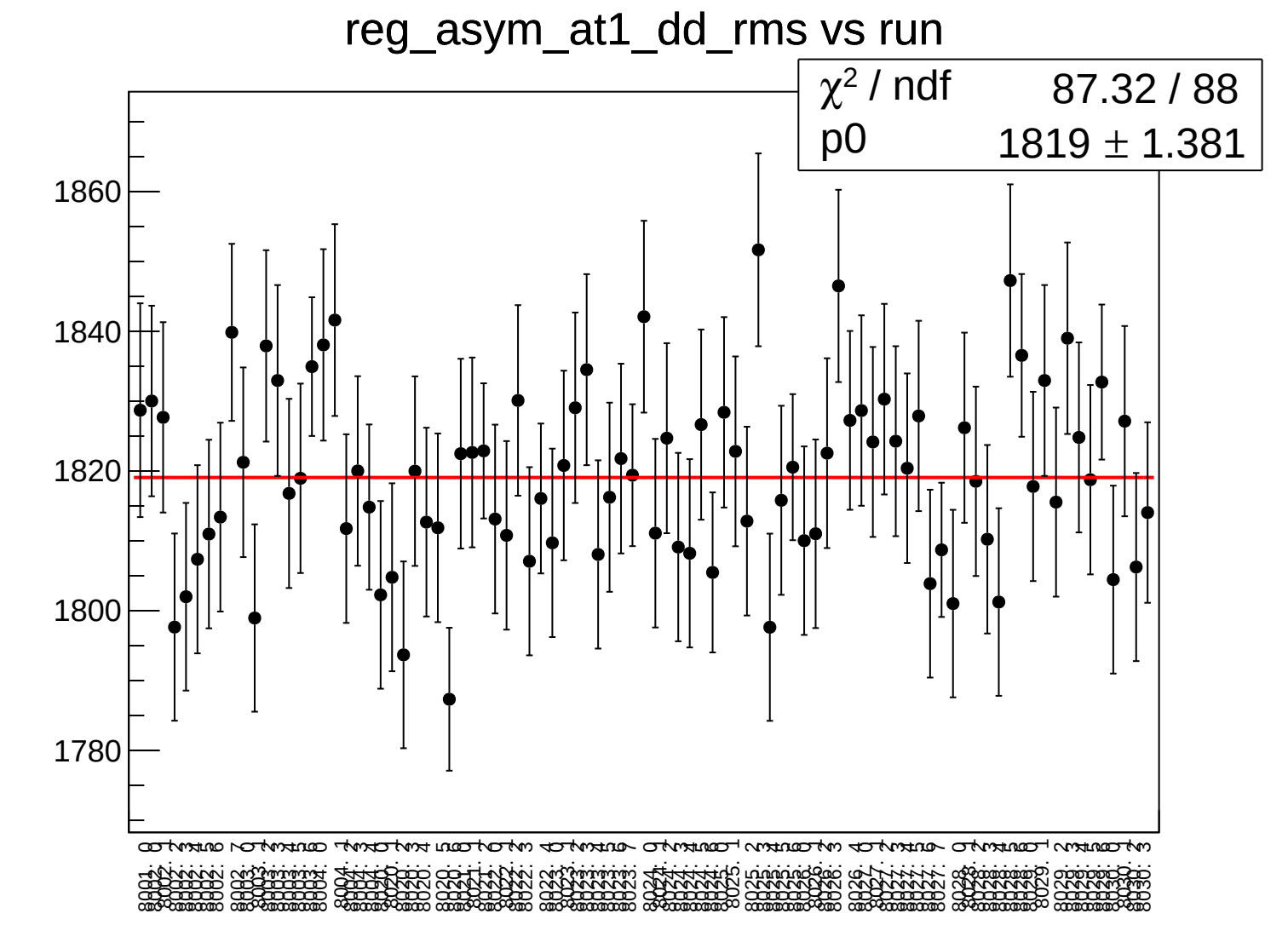

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.181e+05 / 88
p0 62.91 ± 0.05483
500
400
300
200
100

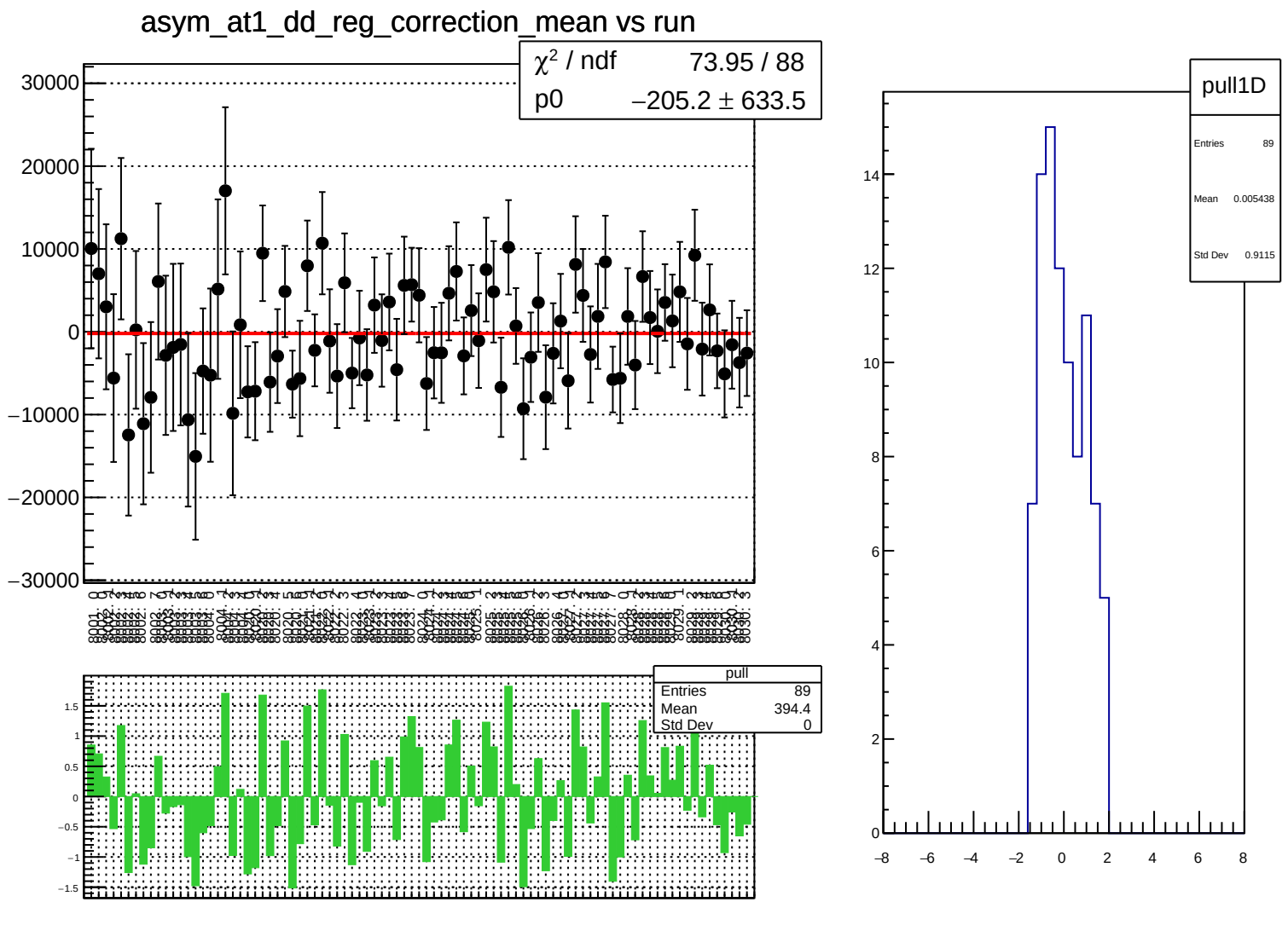

asym_at1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 101.2 / 88
p0 1.57e−13 ± 5.528e−14
pull
Entries 89
Mean 51.11
Std Dev 18.77
pull1D
Entries 89
Mean −0.1019
Std Dev 1.062

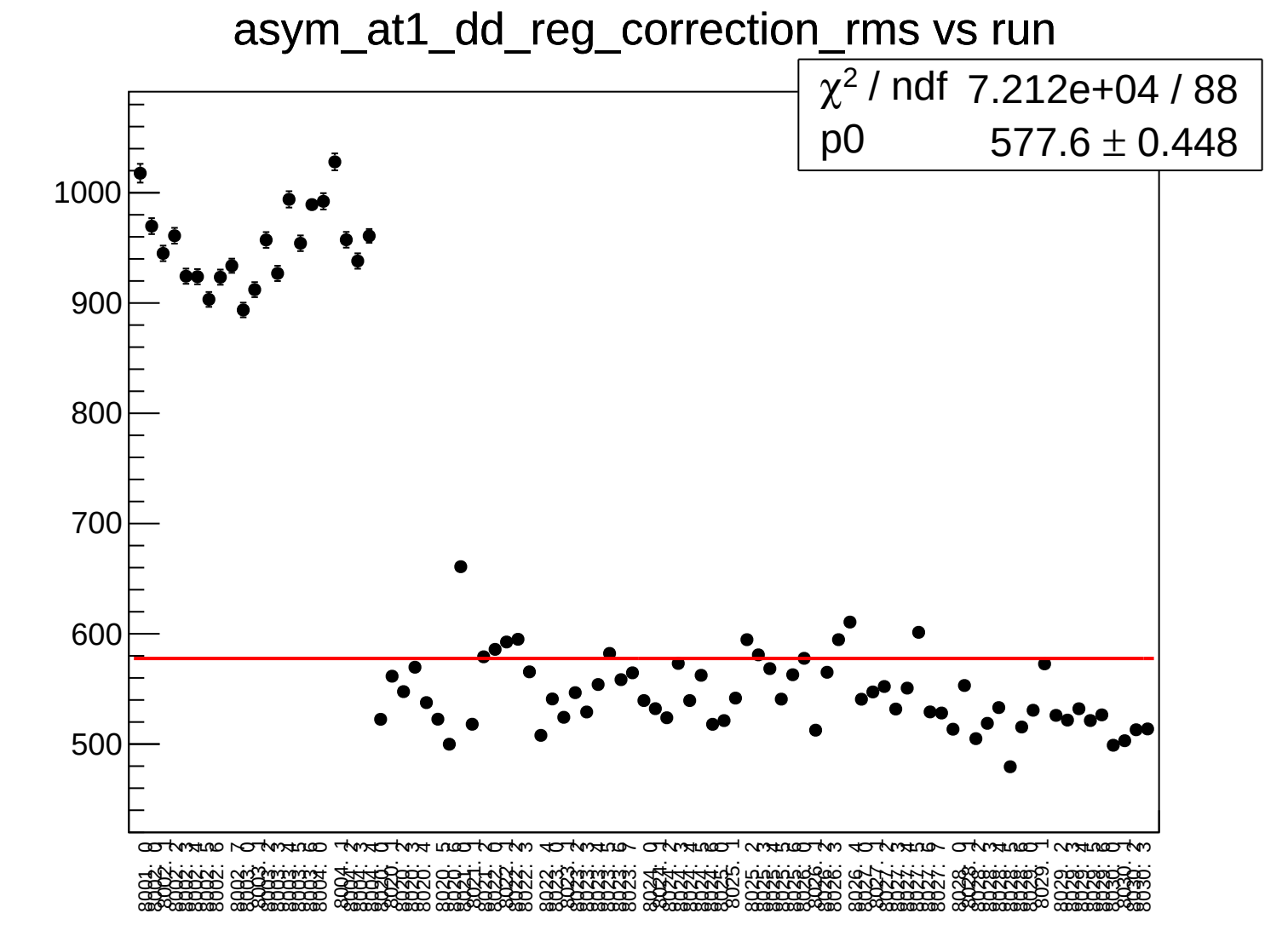

asym_at1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.365e+05 / 88
p0 3.906e−11 ± 3.909e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

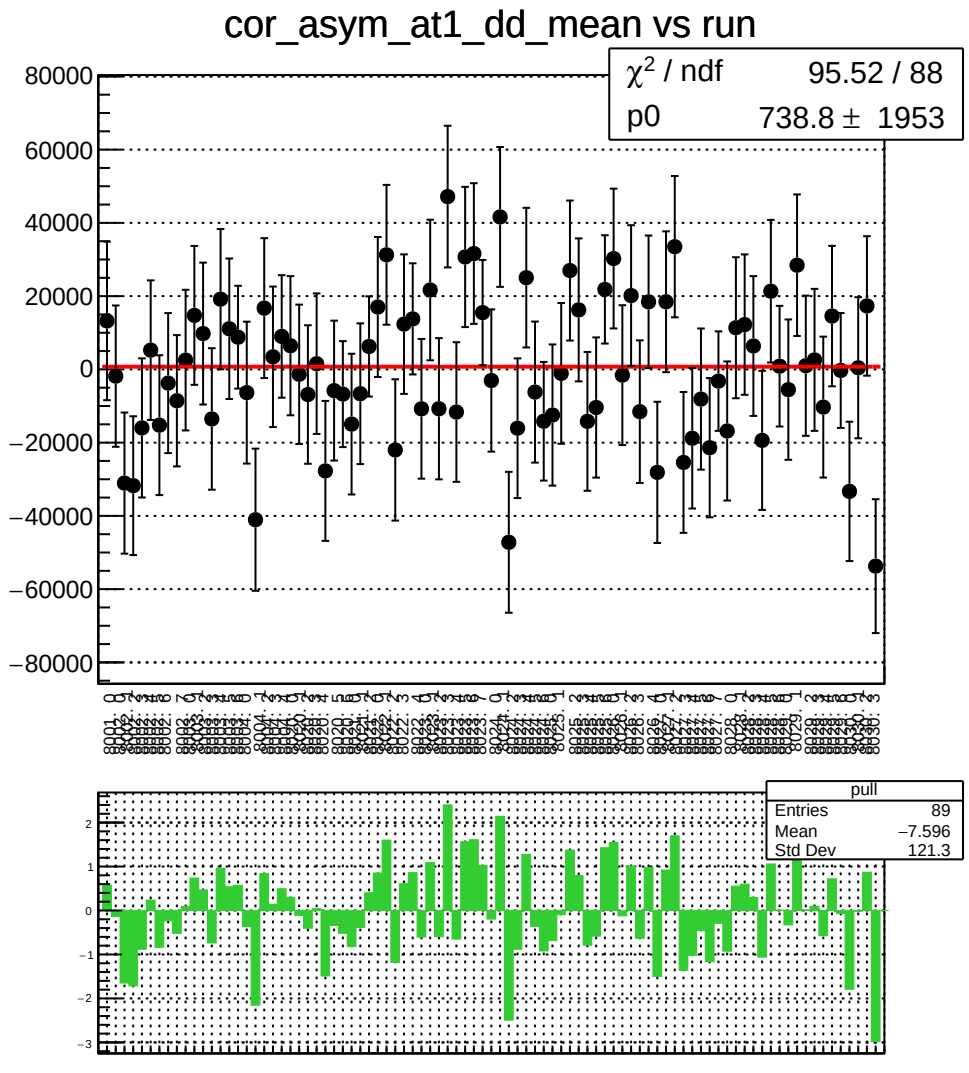

reg_asym_at1_dd_mean vs run
χ^2 / ndf 95.51 / 88
p0 738.7 ± 1953
pull
Entries 89
Mean −7.626
Std Dev 121.2

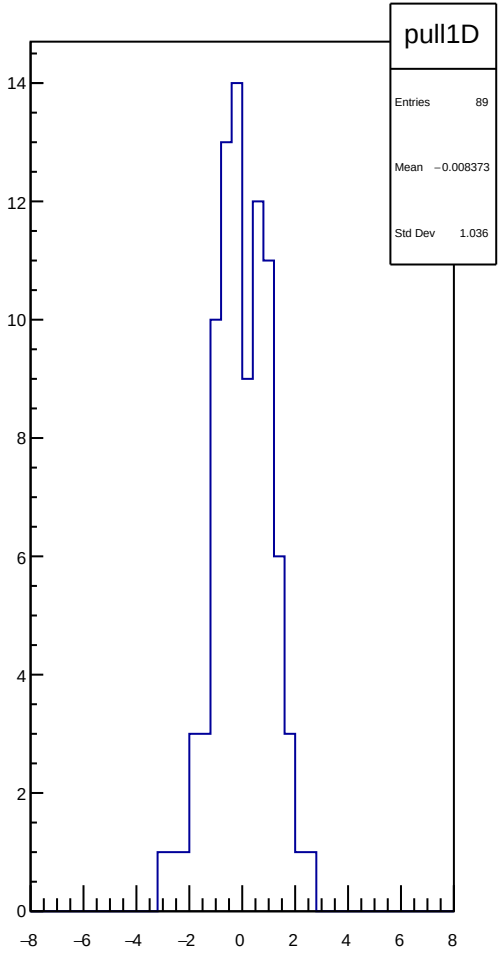

pull1D
Entries 89
Mean −0.008375
Std Dev 1.036

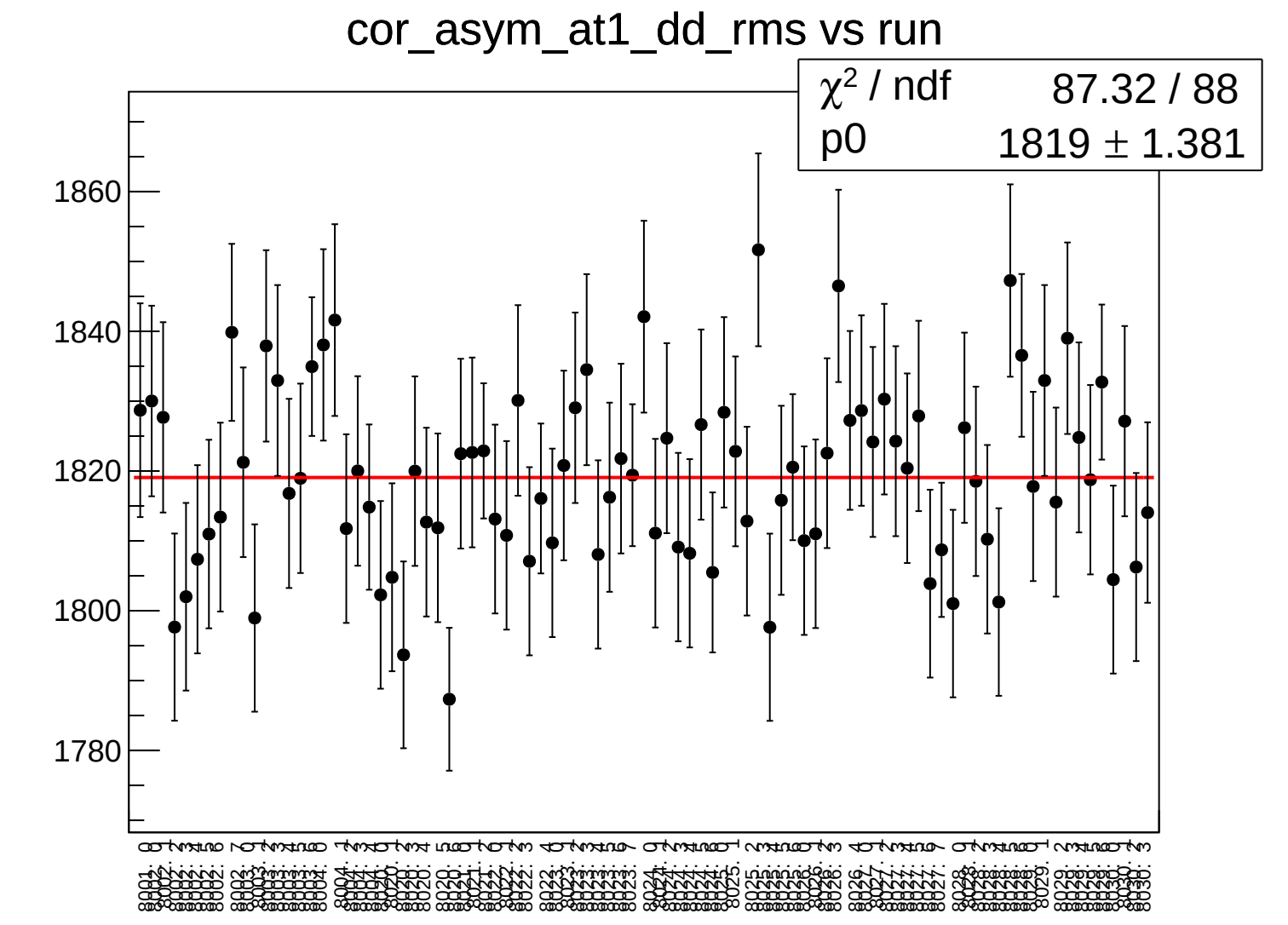

reg_asym_at1_dd_rms vs run
χ^2 / ndf 87.32 / 88
p0 1819 ± 1.381
1860
1840
1820
1800
1780

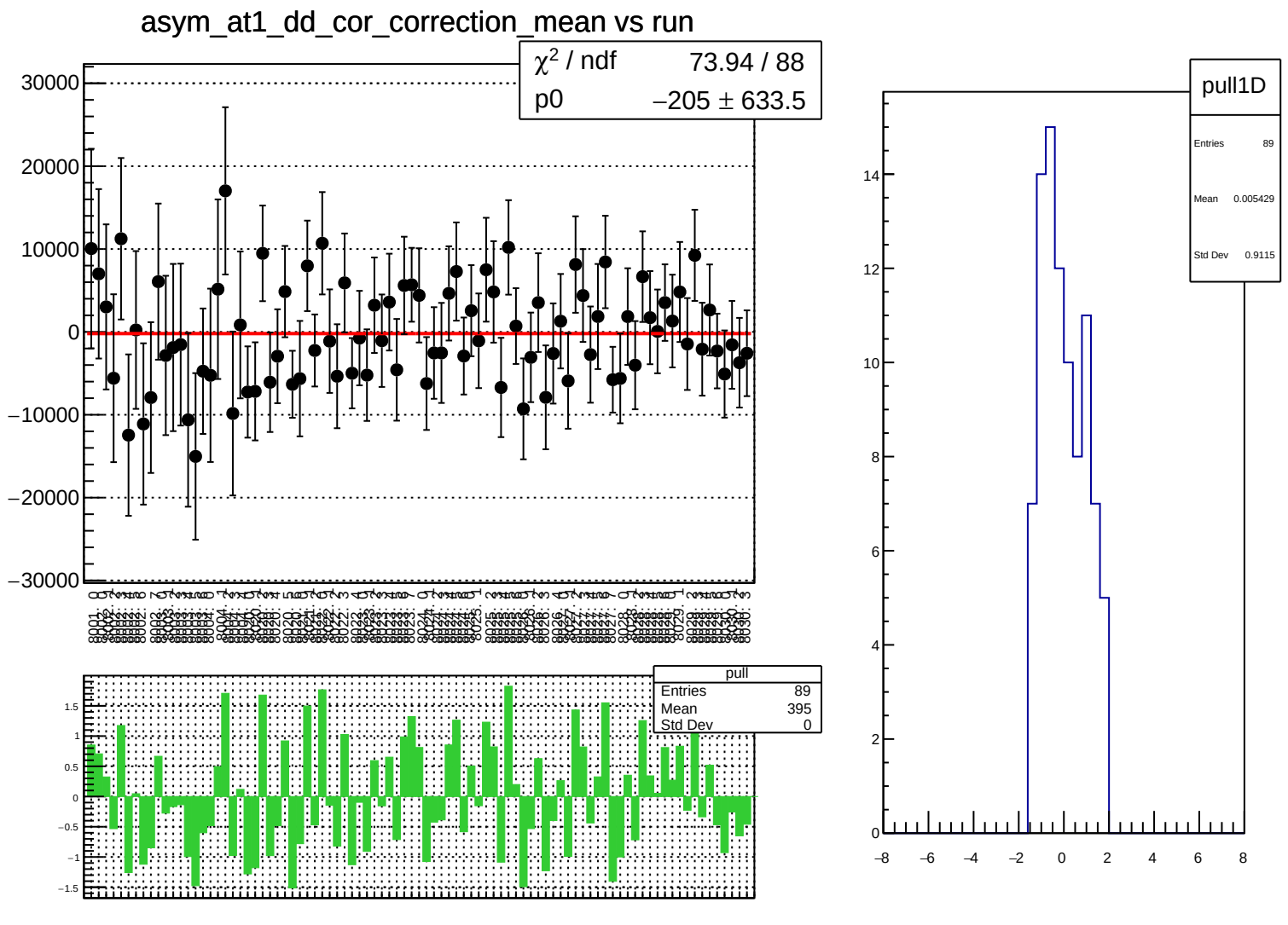

asym_at1_dd_reg_correction_mean vs run
χ² / ndf 73.95 / 88
p0 −205.2 ± 633.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 394.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 89
Mean 0.005438
Std Dev 0.9115
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

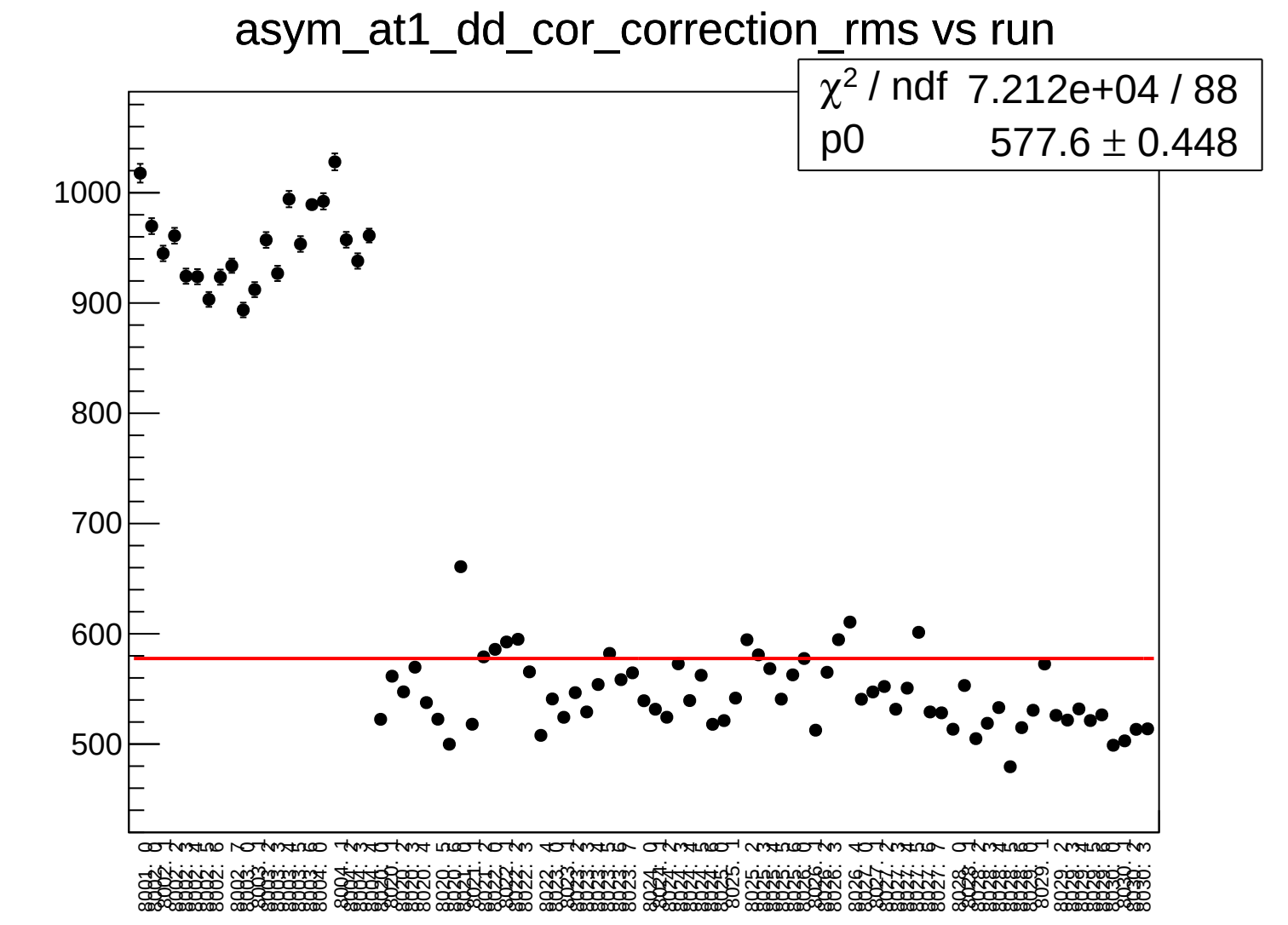

asym_at1_dd_reg_correction_rms vs run
χ² / ndf 7.212e+04 / 88
p0 577.6 ± 0.448
1000
900
800
700
600
500

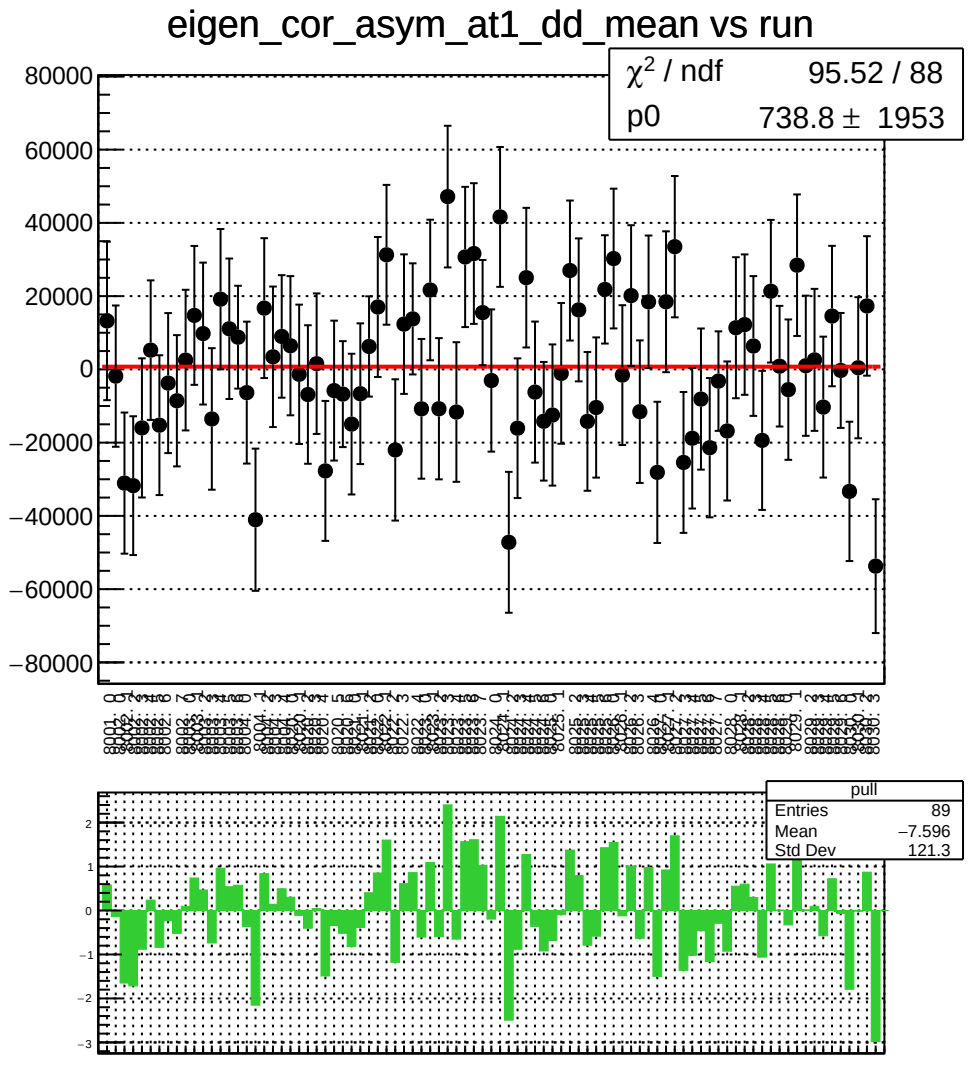

cor_asym_at1_dd_mean vs run
χ² / ndf 95.52 / 88
p0 738.8 ± 1953
pull
Entries 89
Mean −7.596
Std Dev 121.3

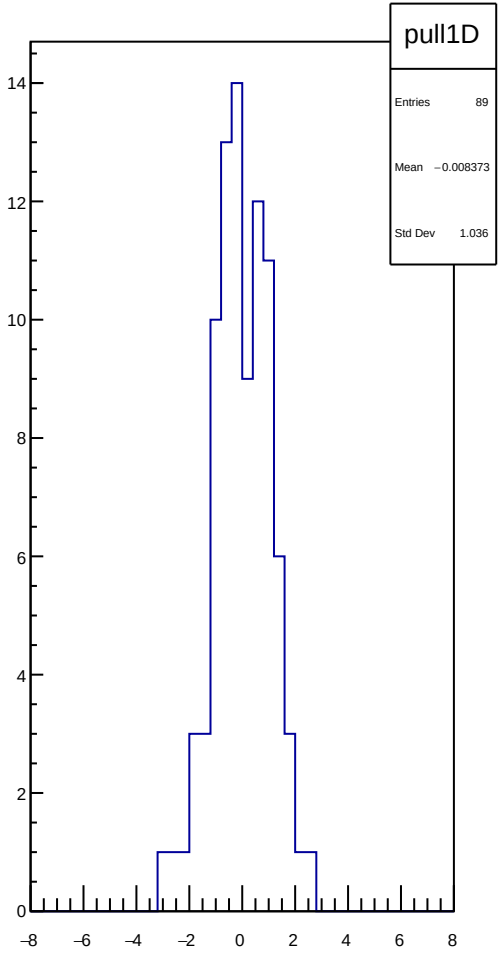

pull1D
Entries 89
Mean −0.008373
Std Dev 1.036

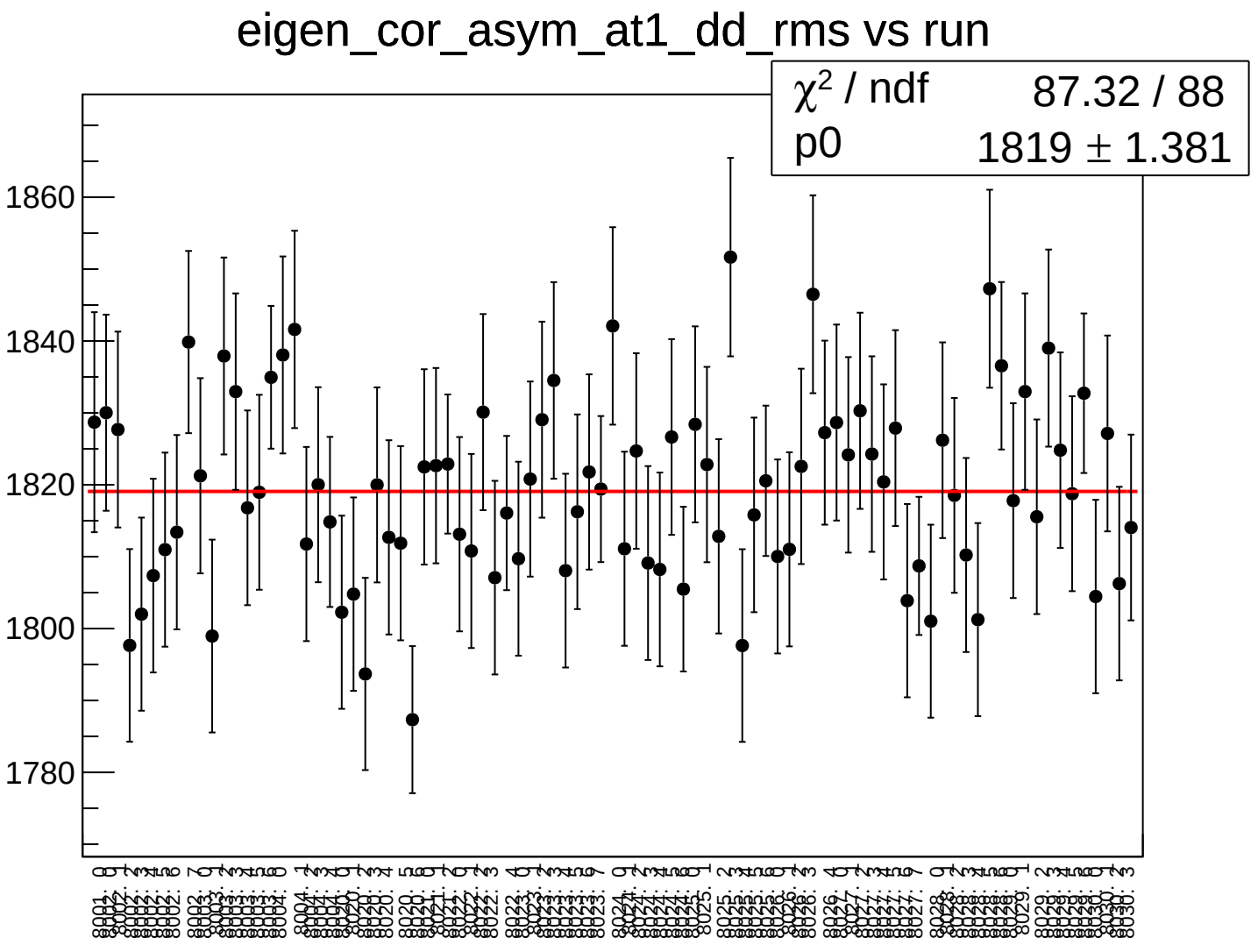

cor_asym_at1_dd_rms vs run
χ^2 / ndf 87.32 / 88
p0 1819 ± 1.381
1860
1840
1820
1800
1780

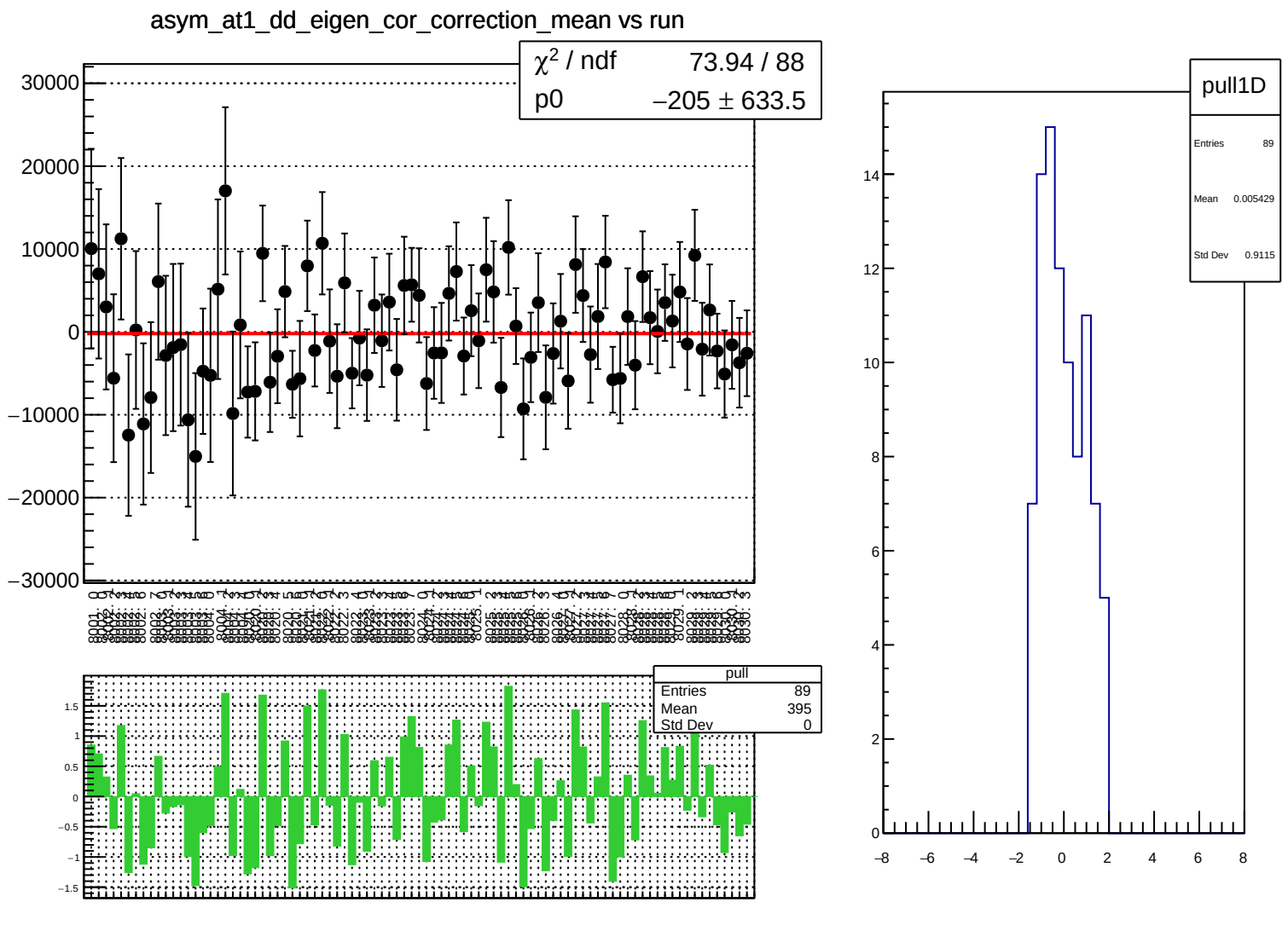

asym_at1_dd_cor_correction_mean vs run
χ² / ndf 73.94 / 88
p0 −205 ± 633.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 395
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 89
Mean 0.005429
Std Dev 0.9115
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

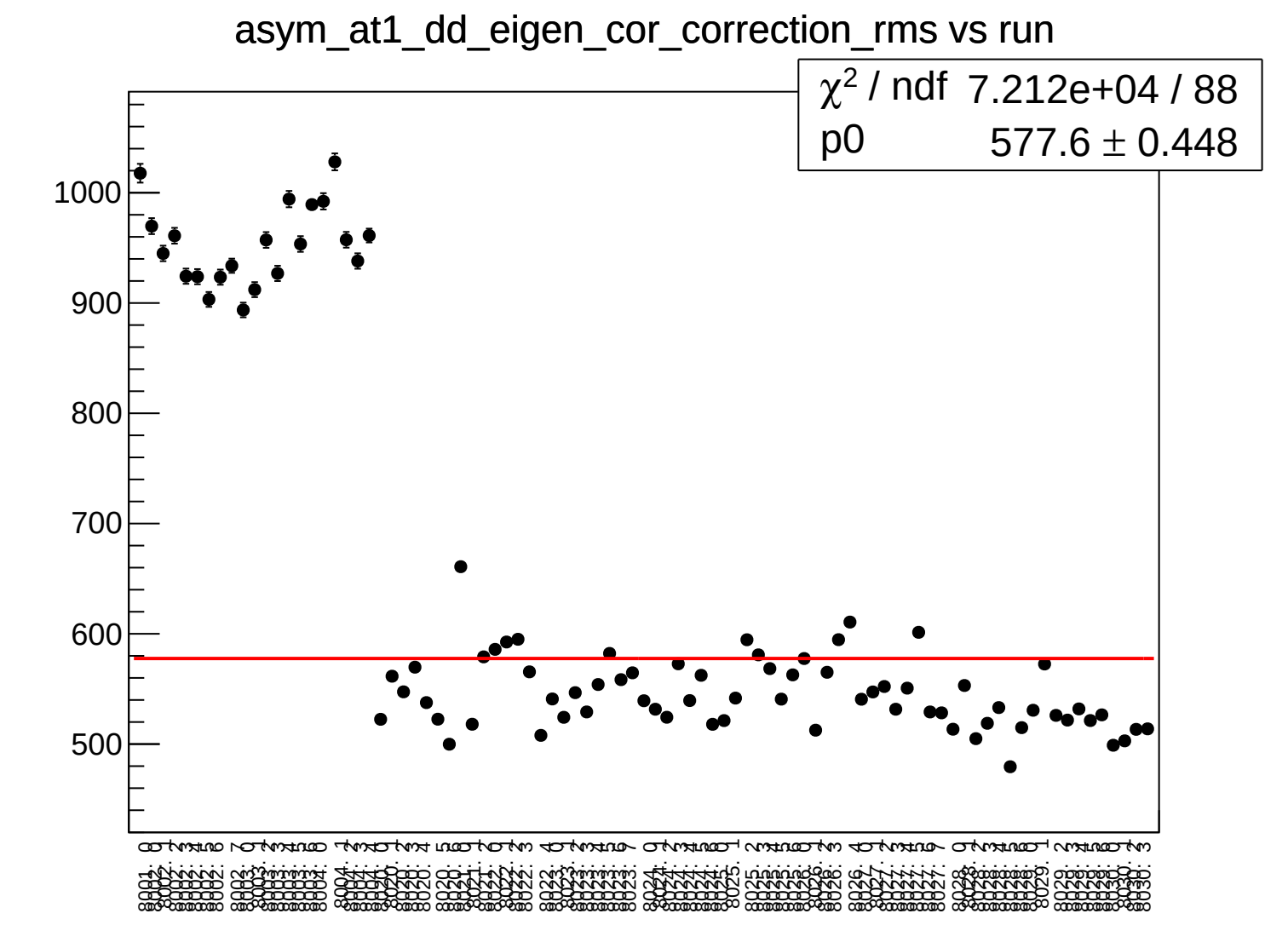

asym_at1_dd_cor_correction_rms vs run
χ² / ndf 7.212e+04 / 88
p0 577.6 ± 0.448
1000
900
800
700
600
500

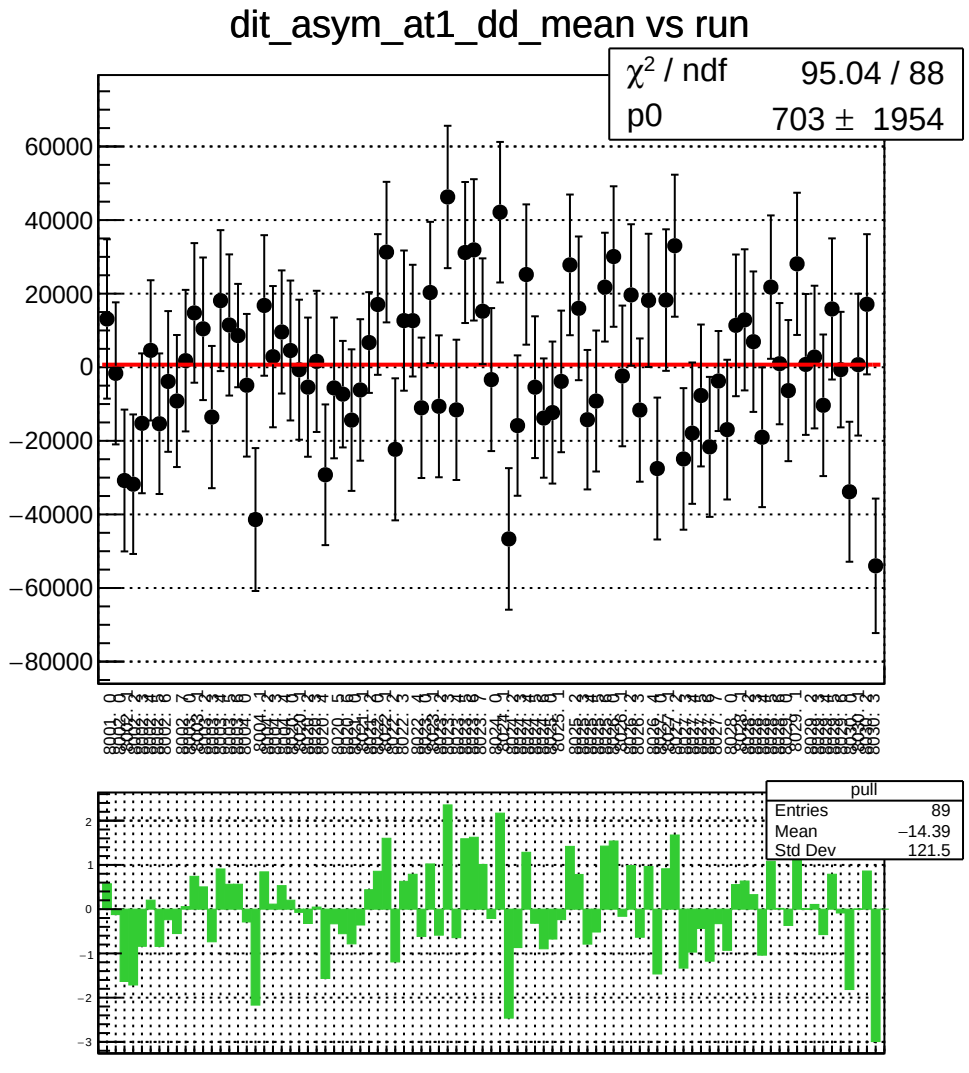

eigen_cor_asym_at1_dd_mean vs run
χ² / ndf 95.52 / 88
p0 738.8 ± 1953
pull
Entries 89
Mean −7.596
Std Dev 121.3

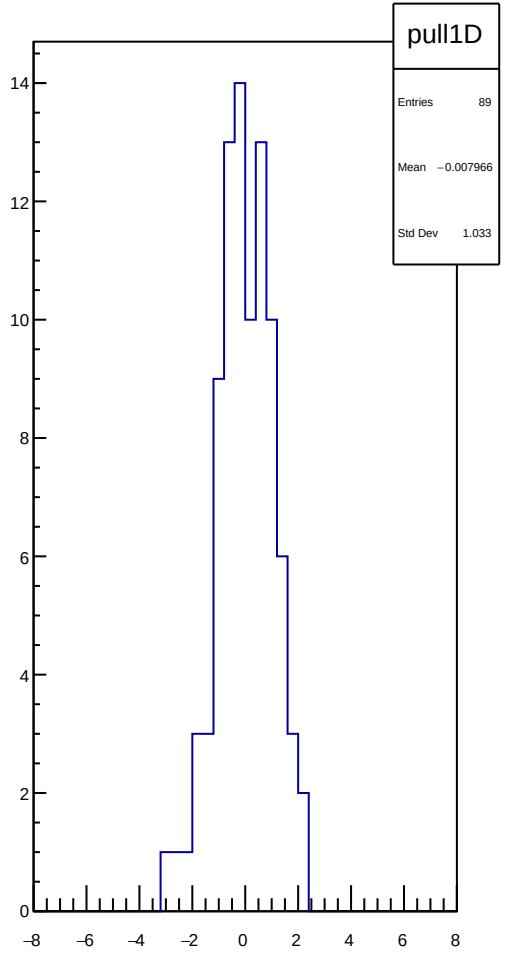

pull1D
Entries 89
Mean −0.008373
Std Dev 1.036

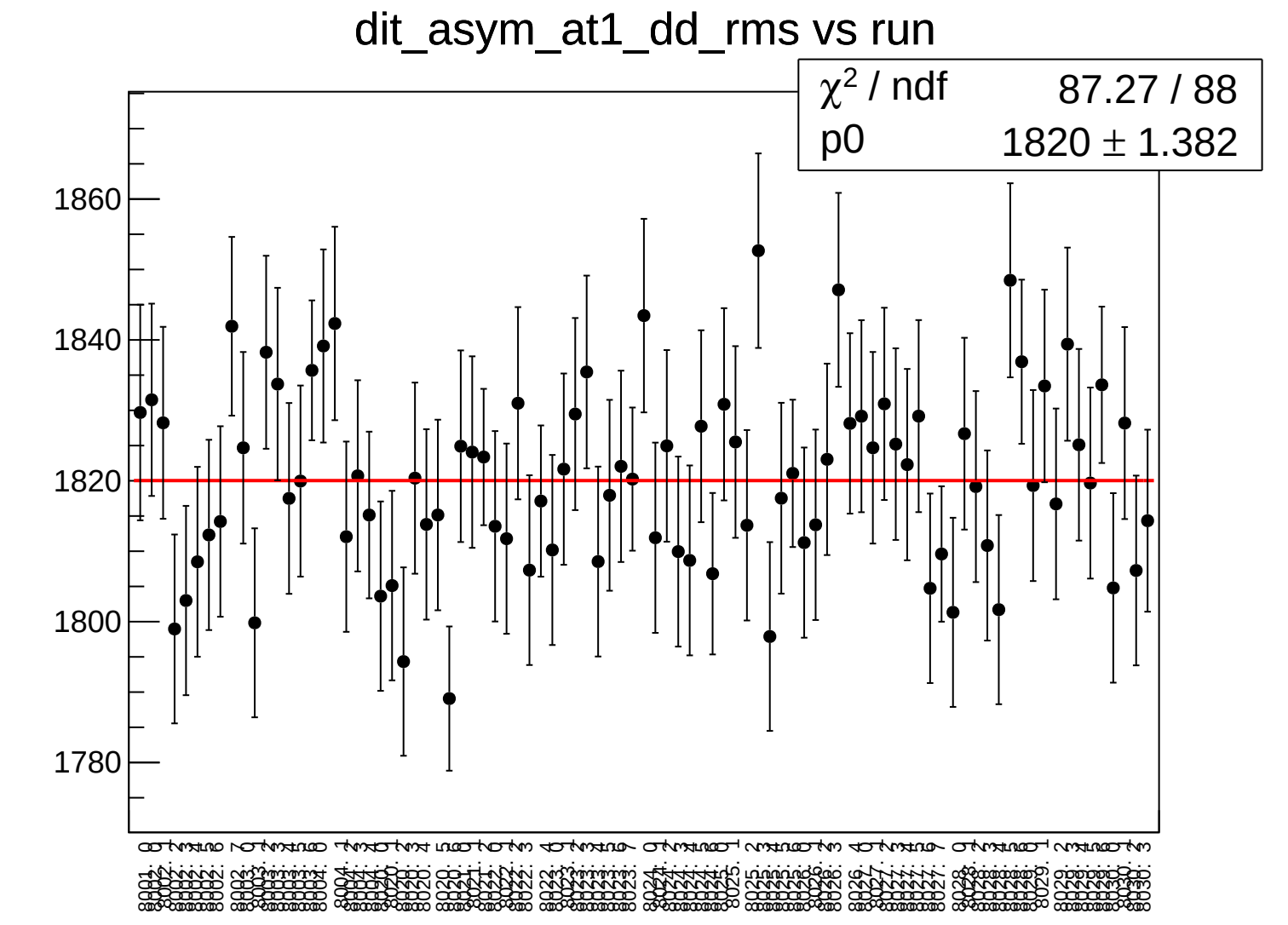

eigen_cor_asym_at1_dd_rms vs run
χ^2 / ndf 87.32 / 88
p0 1819 ± 1.381
1860
1840
1820
1800
1780

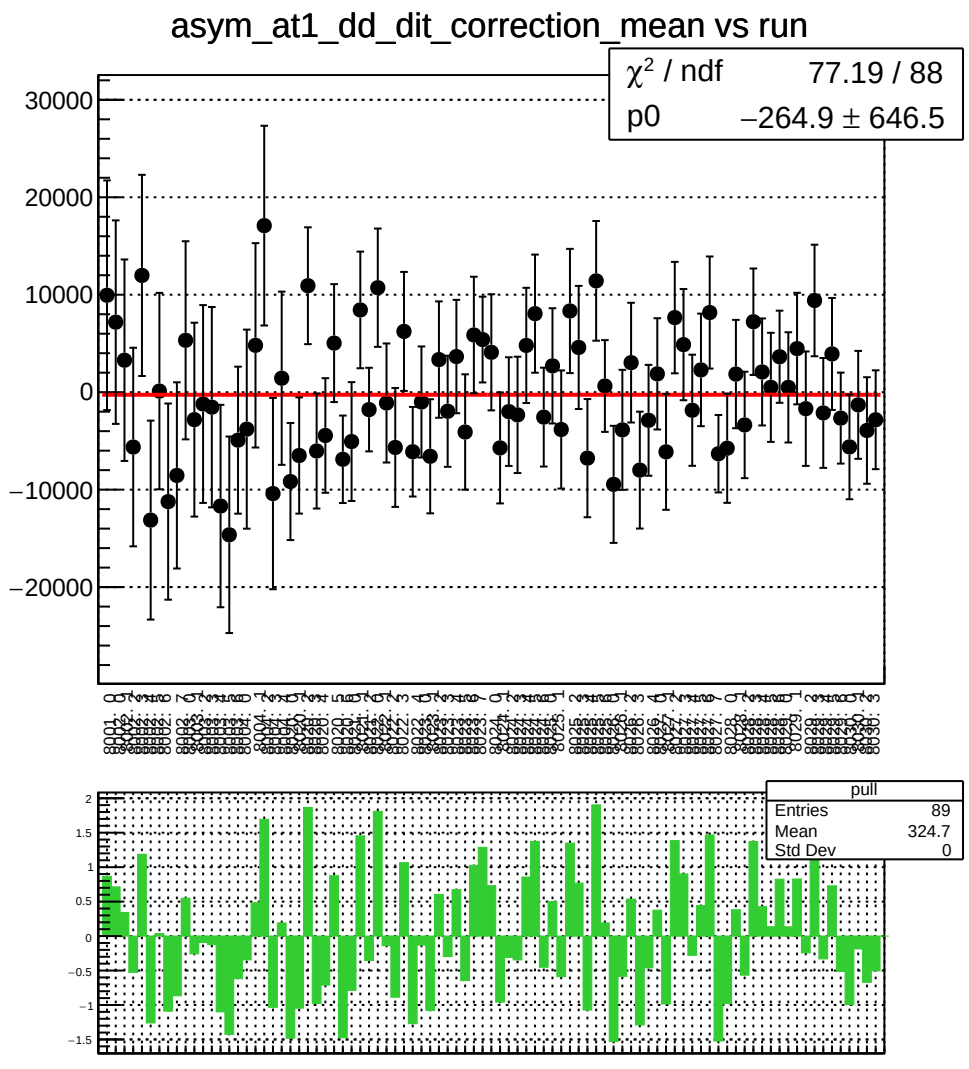

asym_at1_dd_eigen_cor_correction_mean vs run
χ² / ndf 73.94 / 88
p0 −205 ± 633.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 395
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 89
Mean 0.005429
Std Dev 0.9115
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

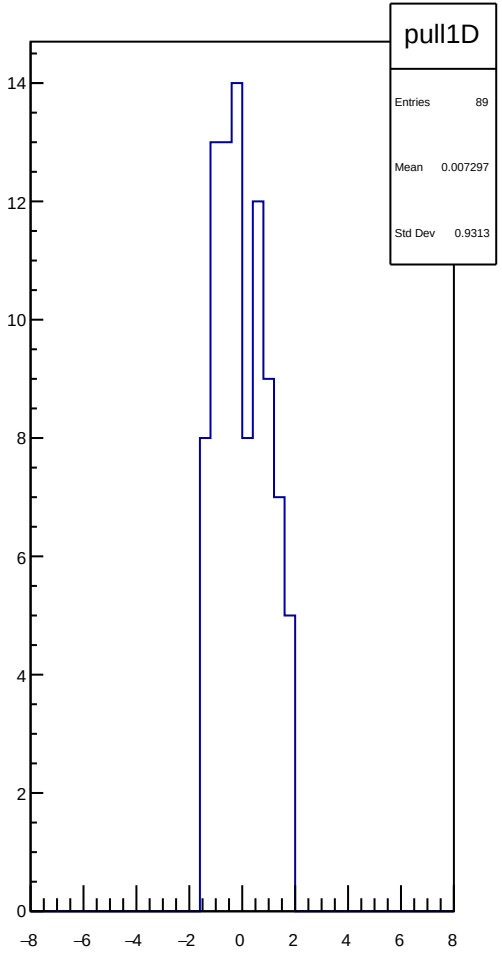

asym_at1_dd_eigen_cor_correction_rms vs run
χ² / ndf 7.212e+04 / 88
p0 577.6 ± 0.448
1000
900
800
700
600
500

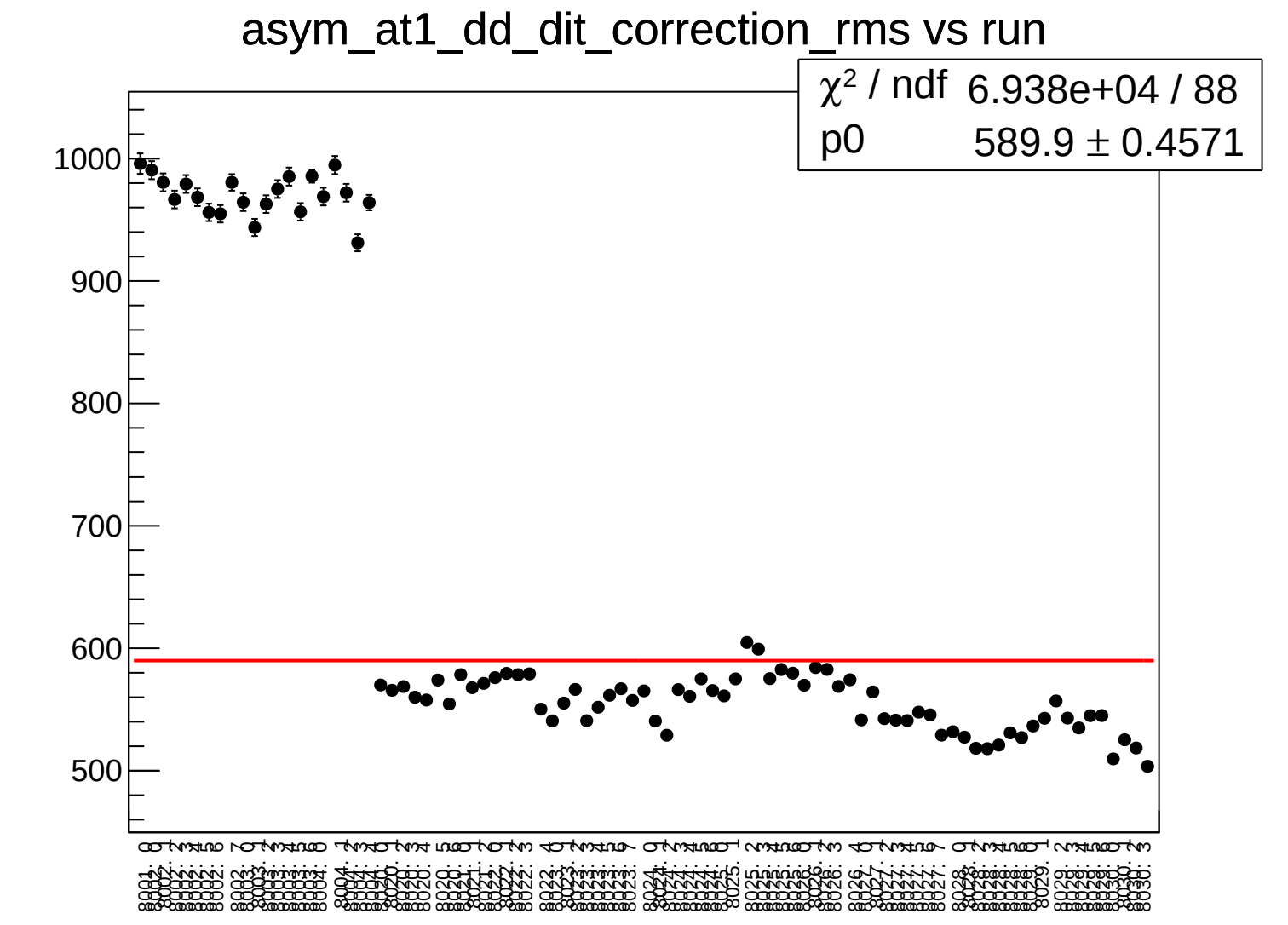

dit_asym_at1_dd_mean vs run
χ² / ndf 95.04 / 88
p0 703 ± 1954
pull
Entries 89
Mean −14.39
Std Dev 121.5

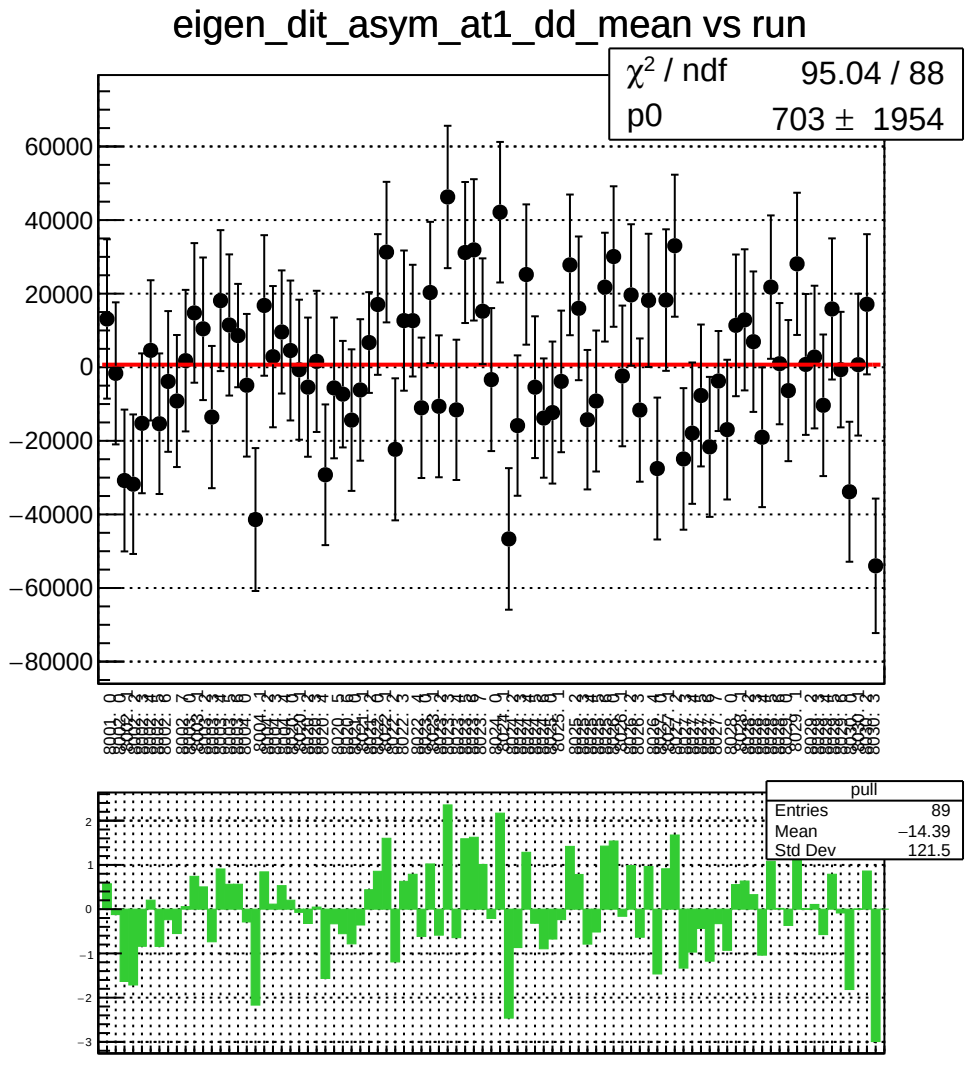

pull1D
Entries 89
Mean −0.007966
Std Dev 1.033

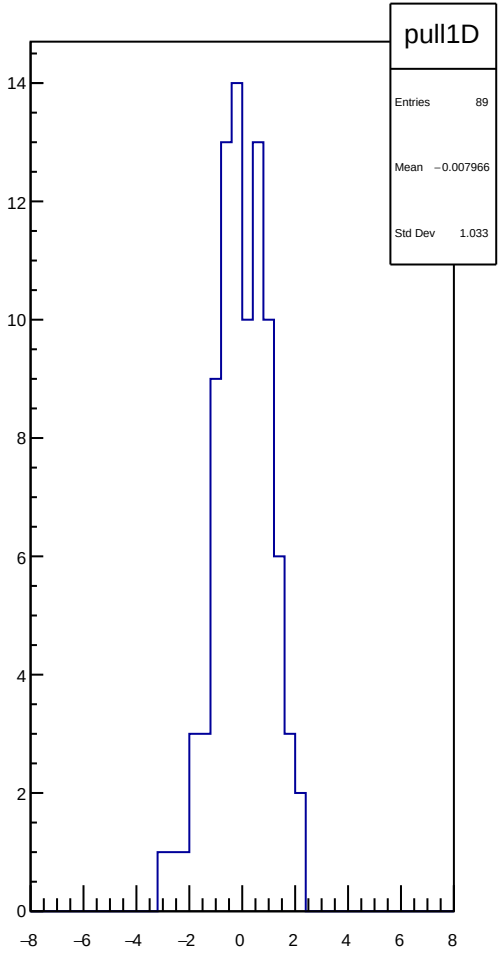

dit_asym_at1_dd_rms vs run
χ² / ndf 87.27 / 88
p0 1820 ± 1.382
1860
1840
1820
1800
1780

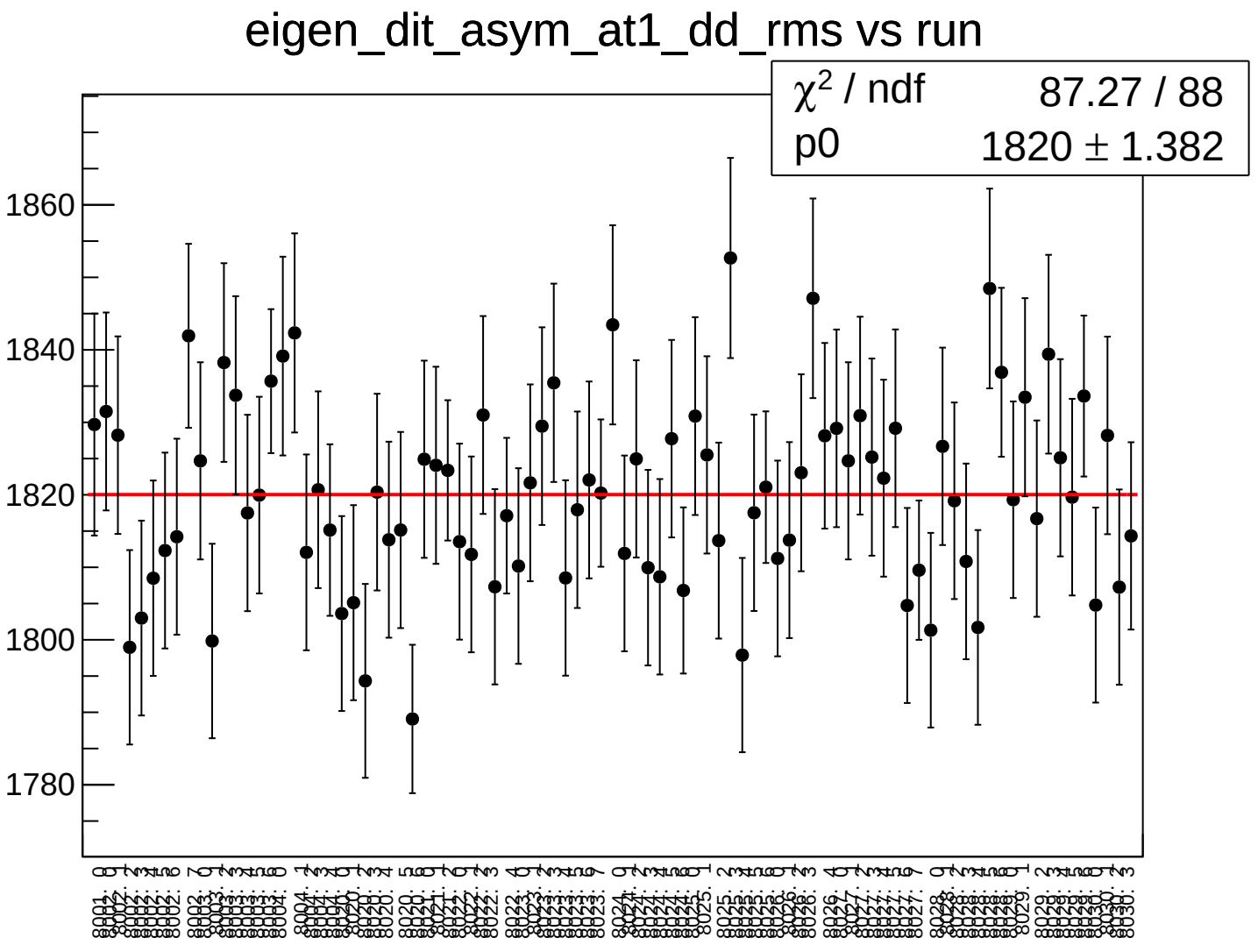

asym_at1_dd_dit_correction_mean vs run
χ² / ndf 77.19 / 88
p0 −264.9 ± 646.5
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 324.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

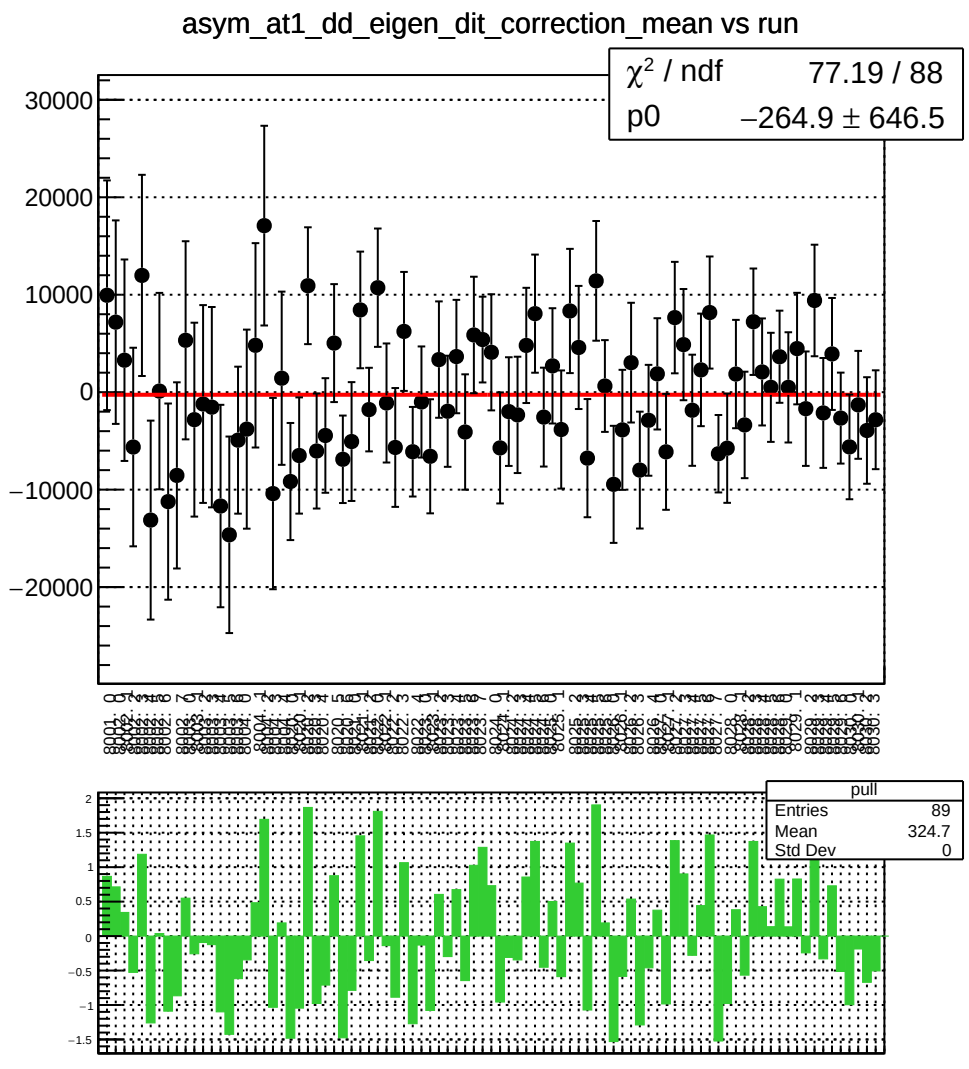

pull1D
Entries 89
Mean 0.007297
Std Dev 0.9313
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

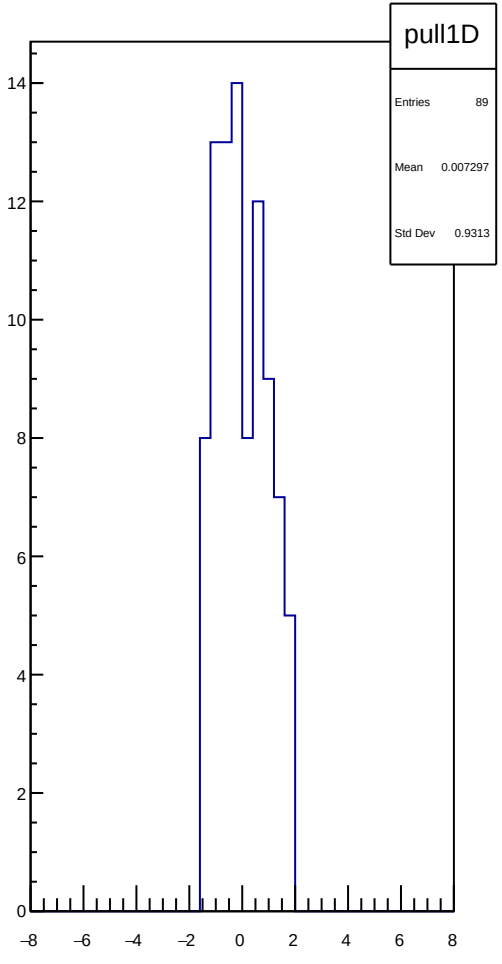

asym_at1_dd_dit_correction_rms vs run
χ² / ndf 6.938e+04 / 88
p0 589.9 ± 0.4571
1000
900
800
700
600
500

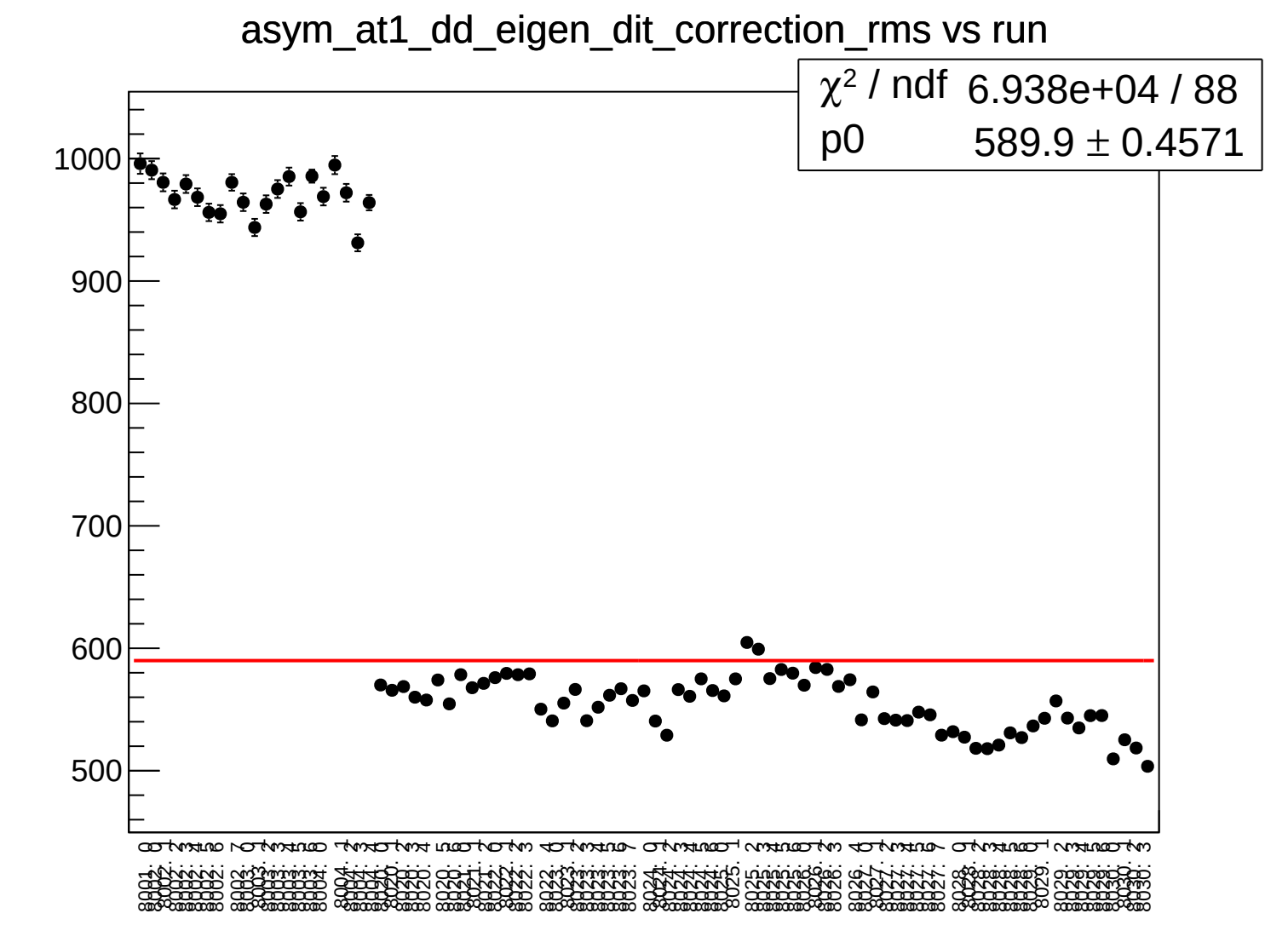

eigen_dit_asym_at1_dd_mean vs run
χ² / ndf 95.04 / 88
p0 703 ± 1954
pull
Entries 89
Mean −14.39
Std Dev 121.5

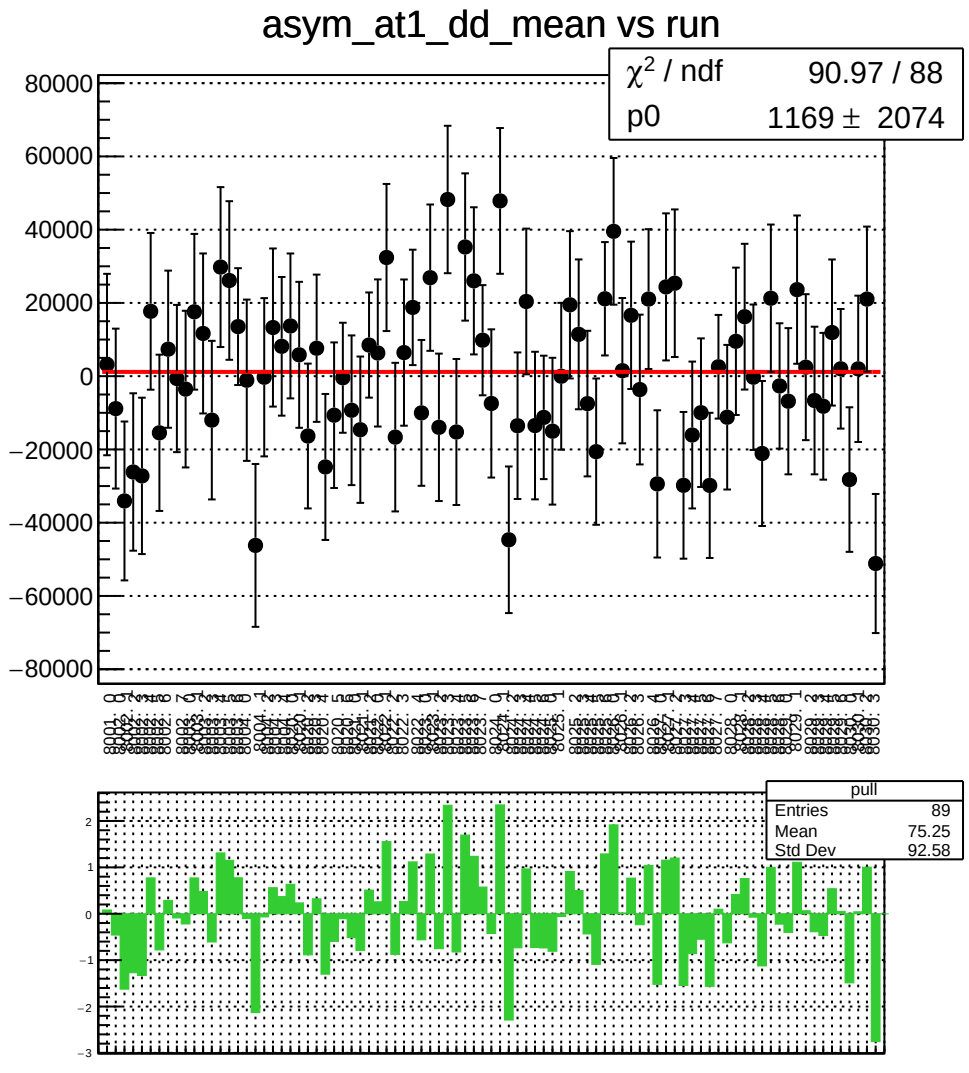

pull1D
Entries 89
Mean −0.007966
Std Dev 1.033

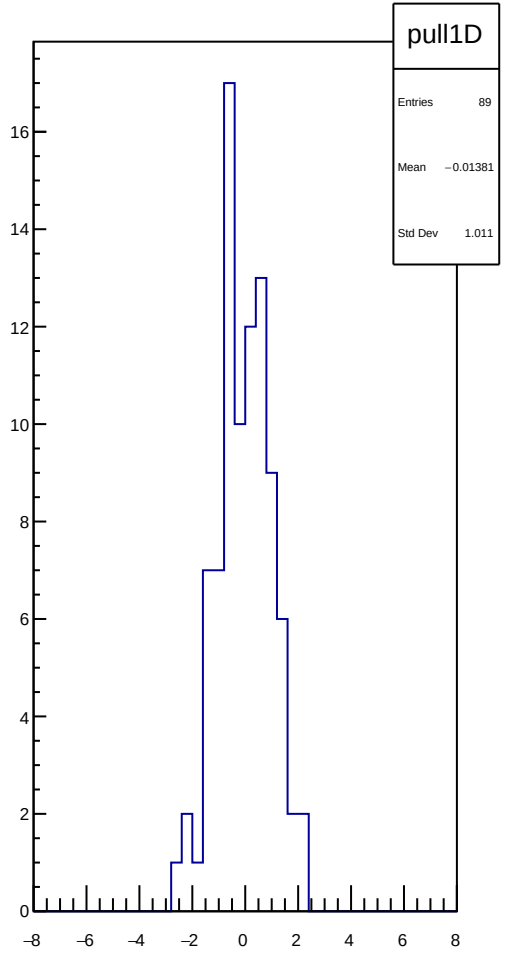

eigen_dit_asym_at1_dd_rms vs run
χ^2 / ndf 87.27 / 88
p0 1820 ± 1.382
1860
1840
1820
1800
1780

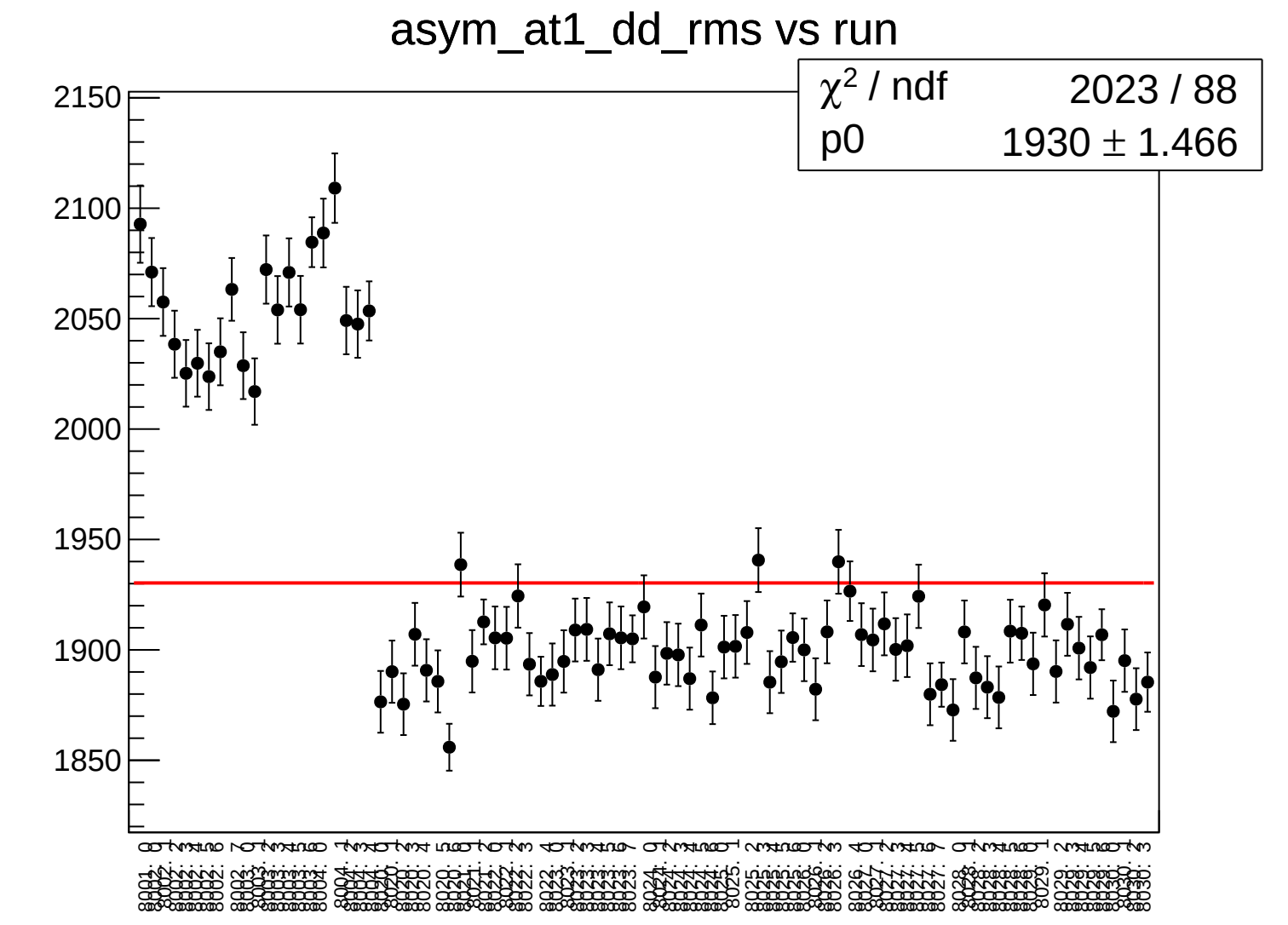

asym_at1_dd_eigen_dit_correction_mean vs run
χ² / ndf 77.19 / 88
p0 −264.9 ± 646.5
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 324.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

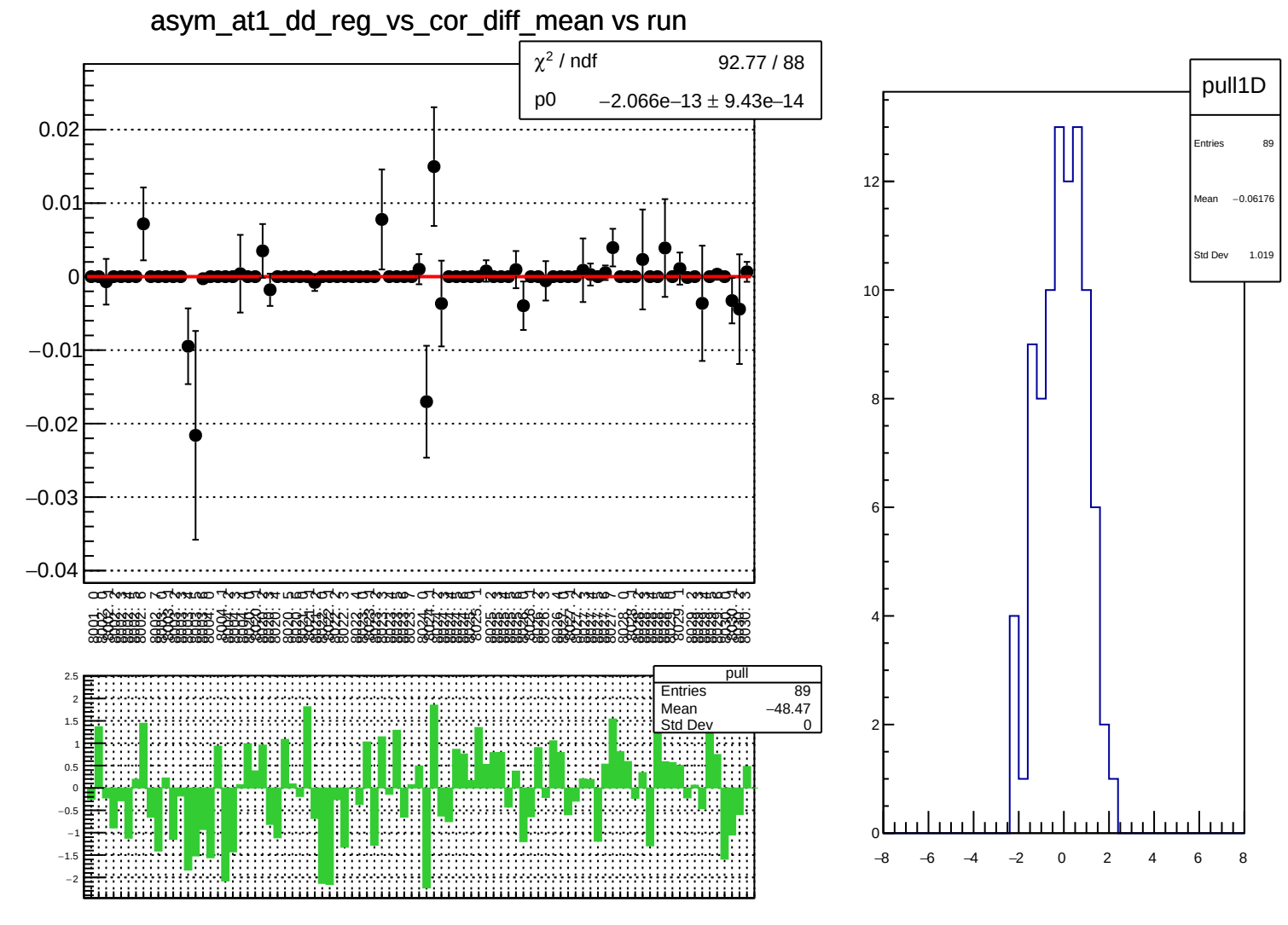

pull1D
Entries 89
Mean 0.007297
Std Dev 0.9313
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

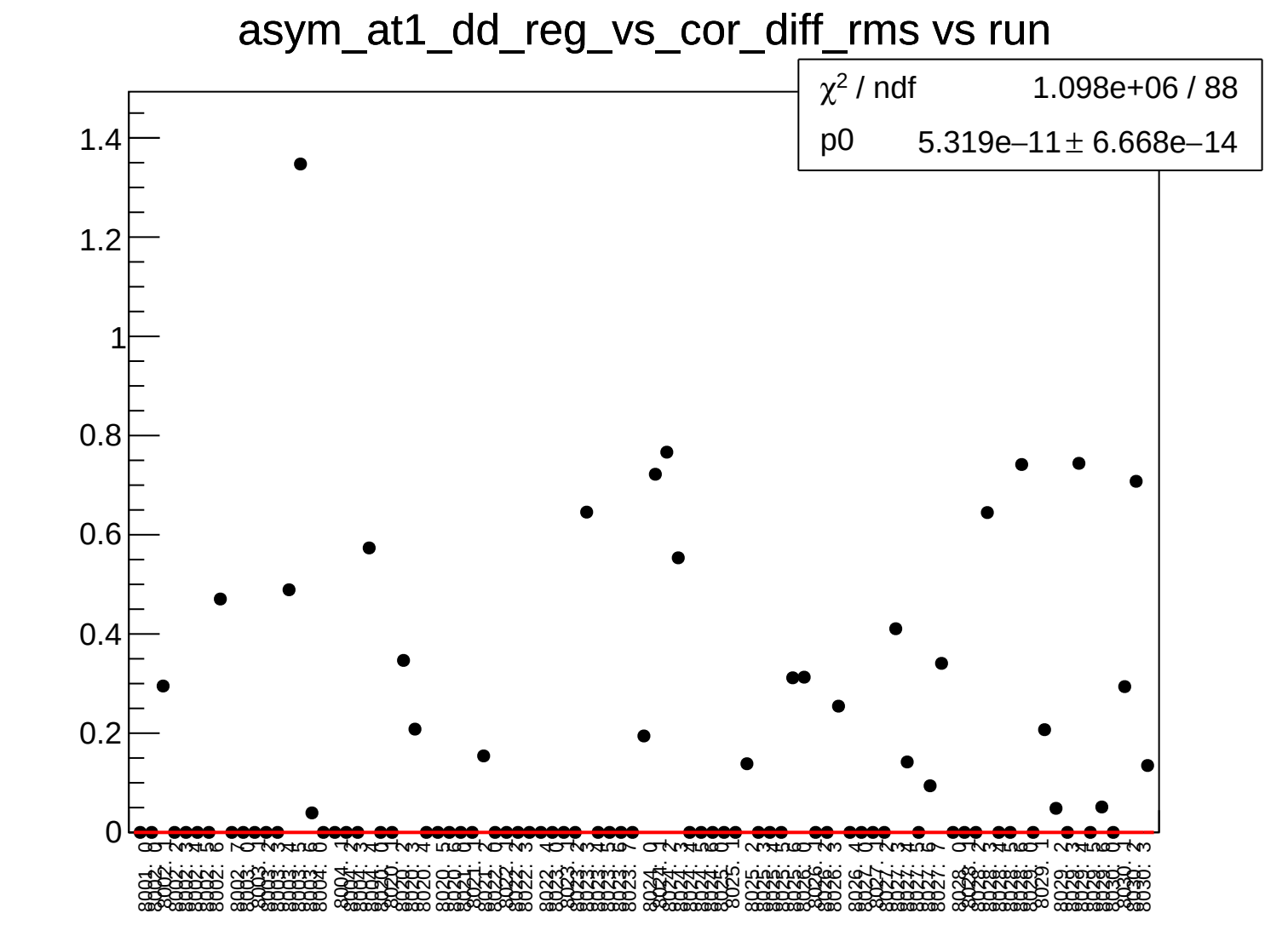

asym_at1_dd_eigen_dit_correction_rms vs run
χ² / ndf 6.938e+04 / 88
p0 589.9 ± 0.4571
1000
900
800
700
600
500

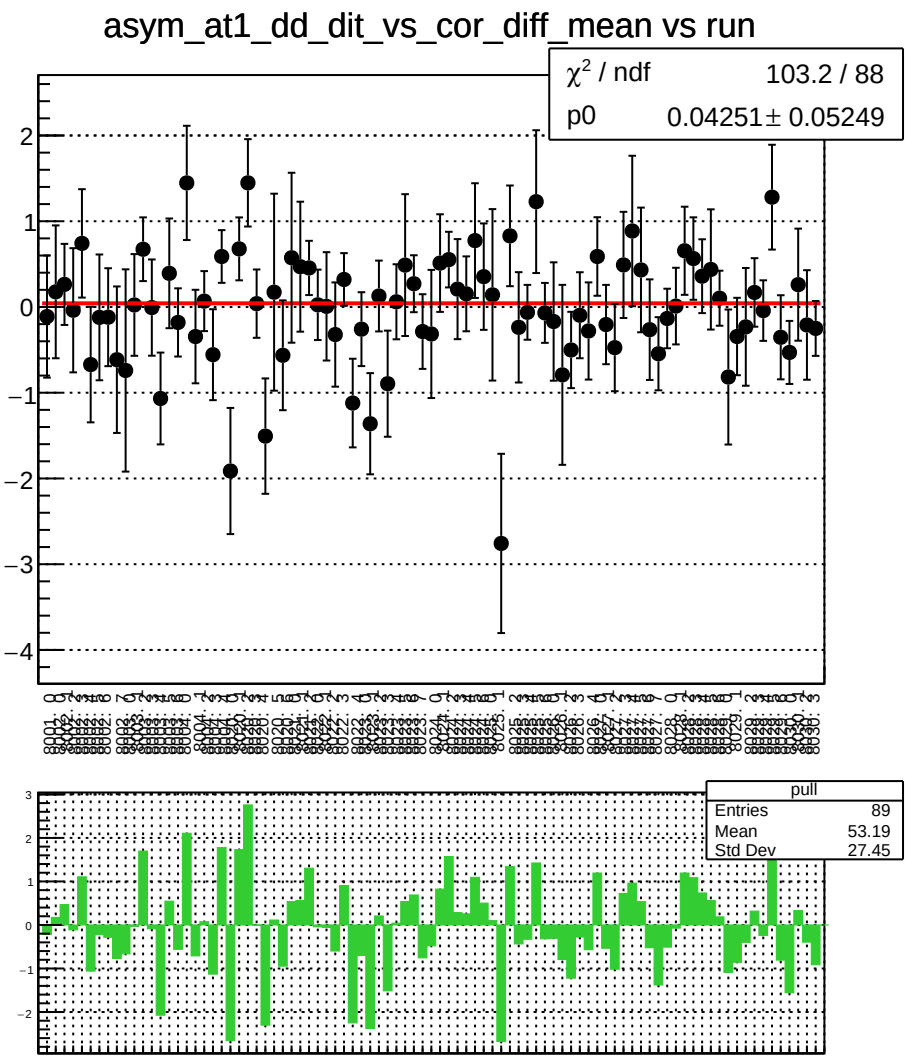

asym_at1_dd_mean vs run
χ² / ndf 90.97 / 88
p0 1169 ± 2074
pull
Entries 89
Mean 75.25
Std Dev 92.58

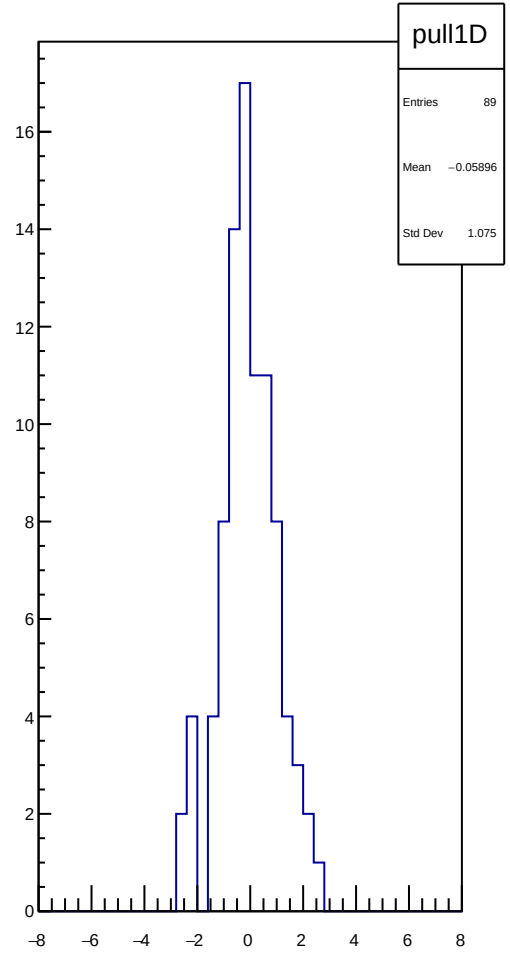

pull1D
Entries 89
Mean −0.01381
Std Dev 1.011

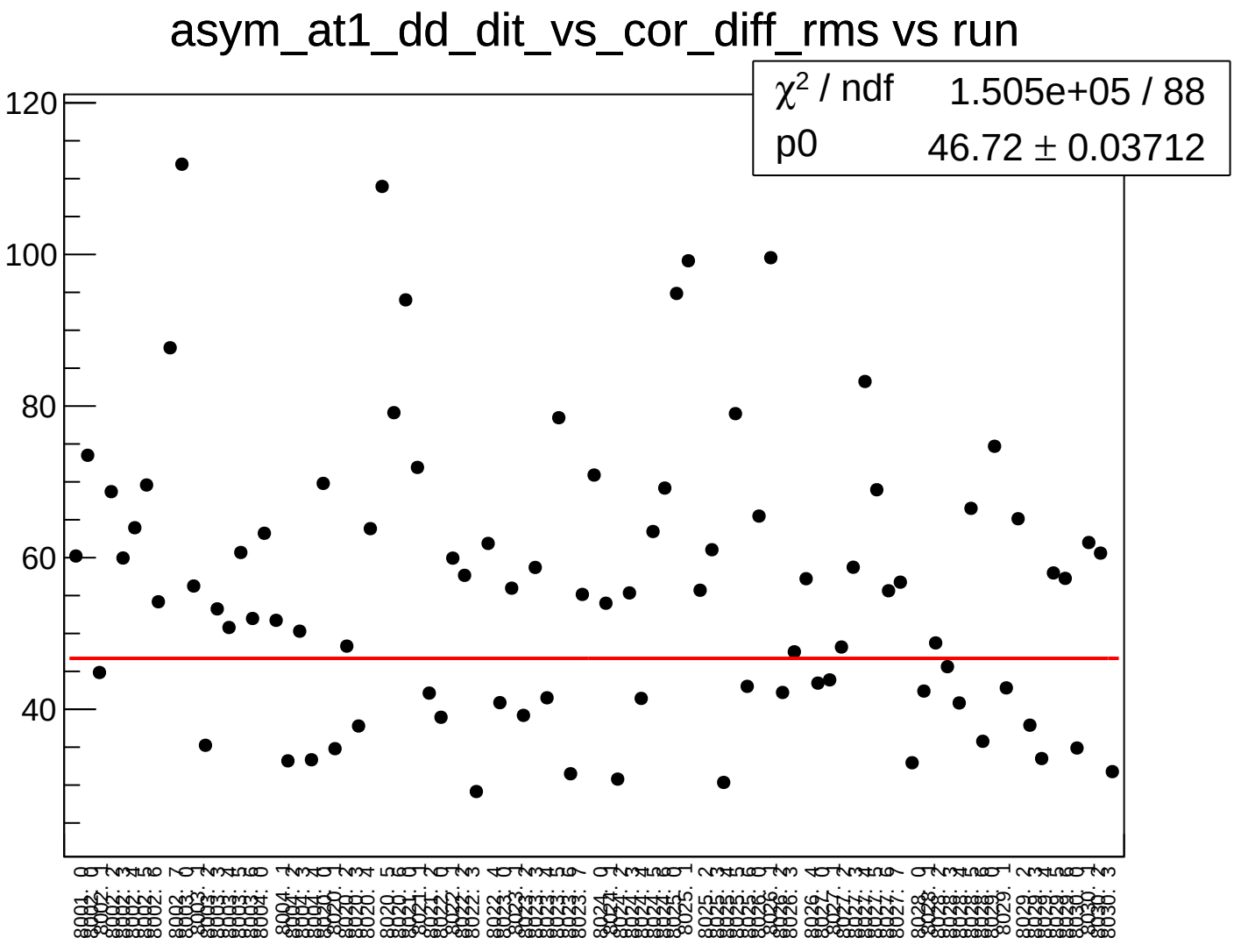

asym_at1_dd_rms vs run
χ² / ndf 2023 / 88
p0 1930 ± 1.466
2150
2100
2050
2000
1950
1900
1850

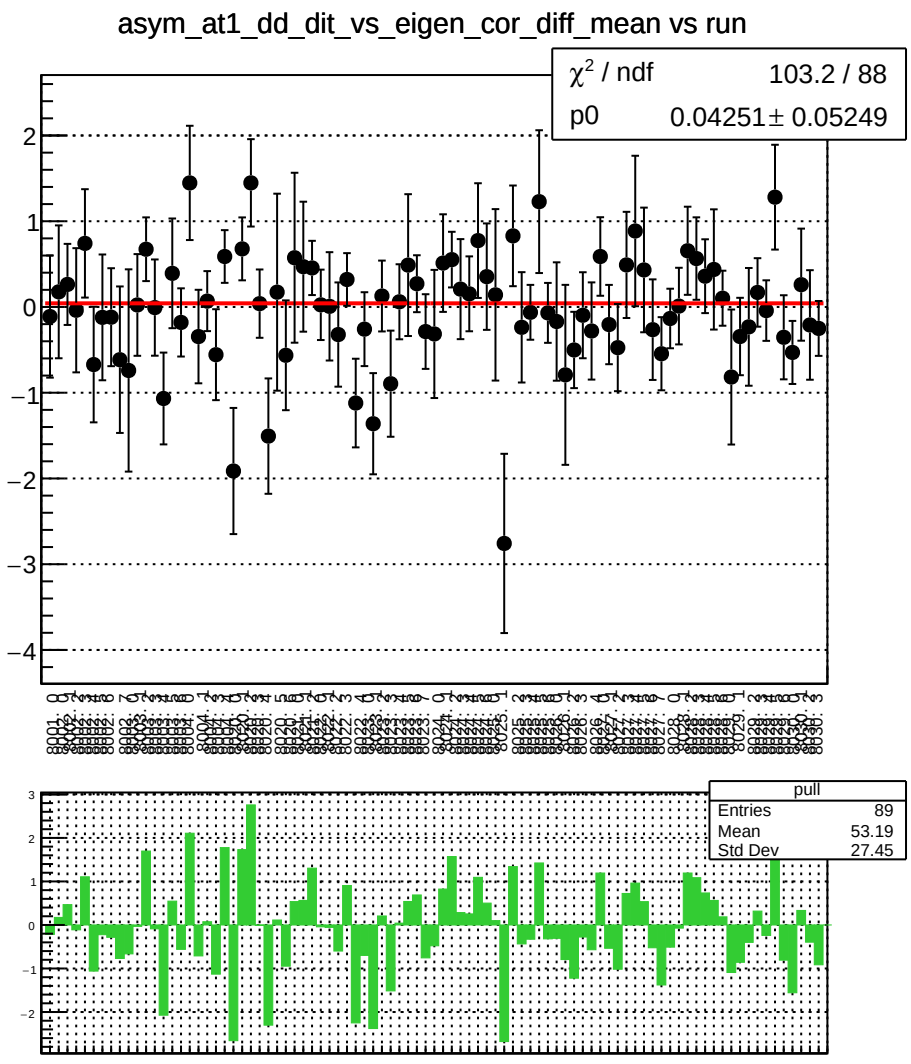

asym_at1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 92.77 / 88
p0 −2.066e−13 ± 9.43e−14
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 89
Mean −48.47
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean −0.06176
Std Dev 1.019
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

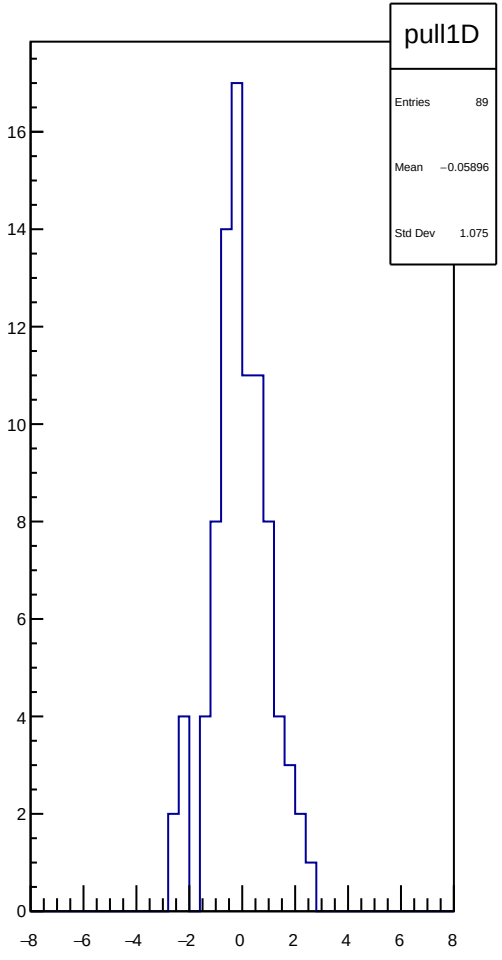

asym_at1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.098e+06 / 88
p0 5.319e−11 ± 6.668e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

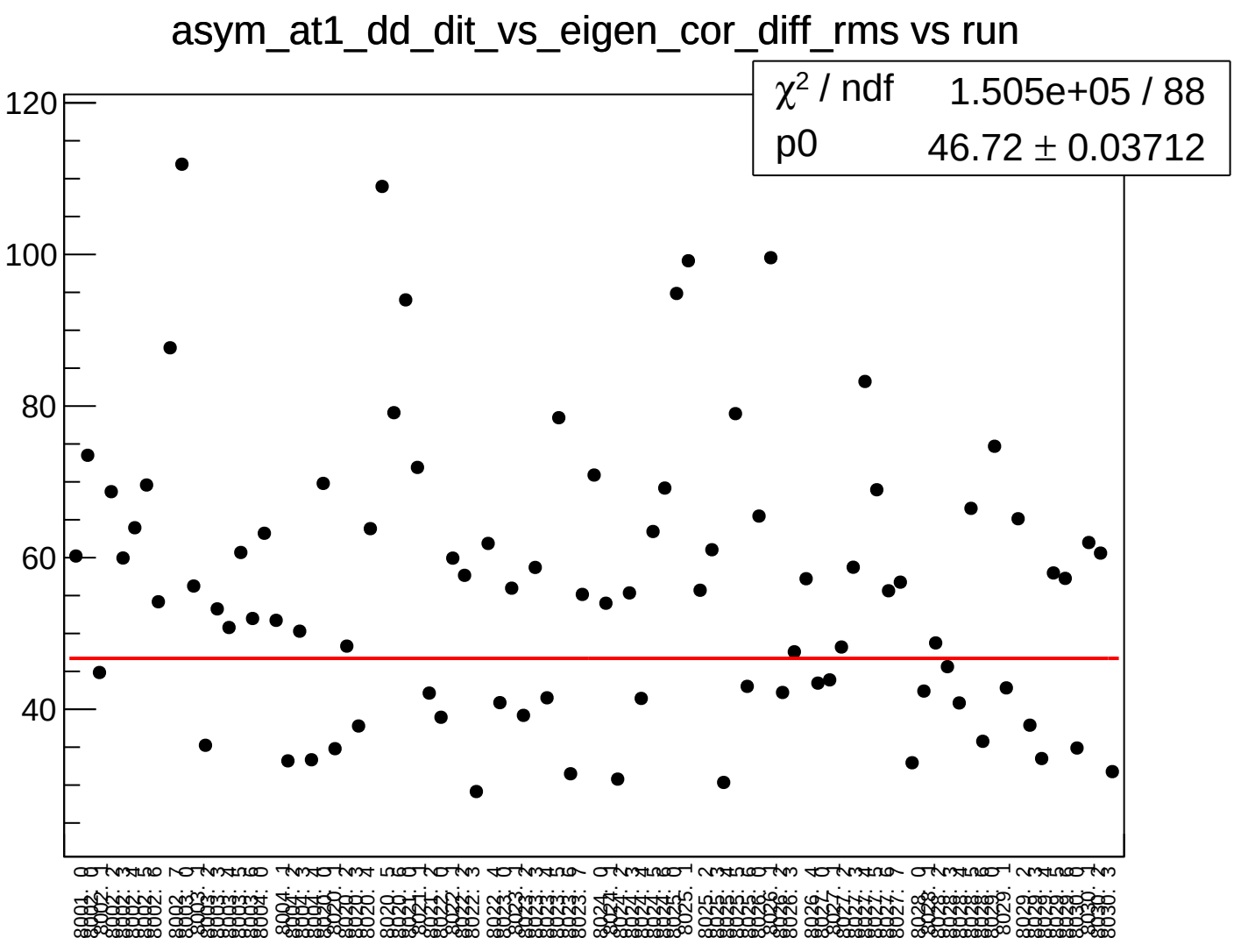

asym_at1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 103.2 / 88
p0 0.04251 ± 0.05249
pull
Entries 89
Mean 53.19
Std Dev 27.45

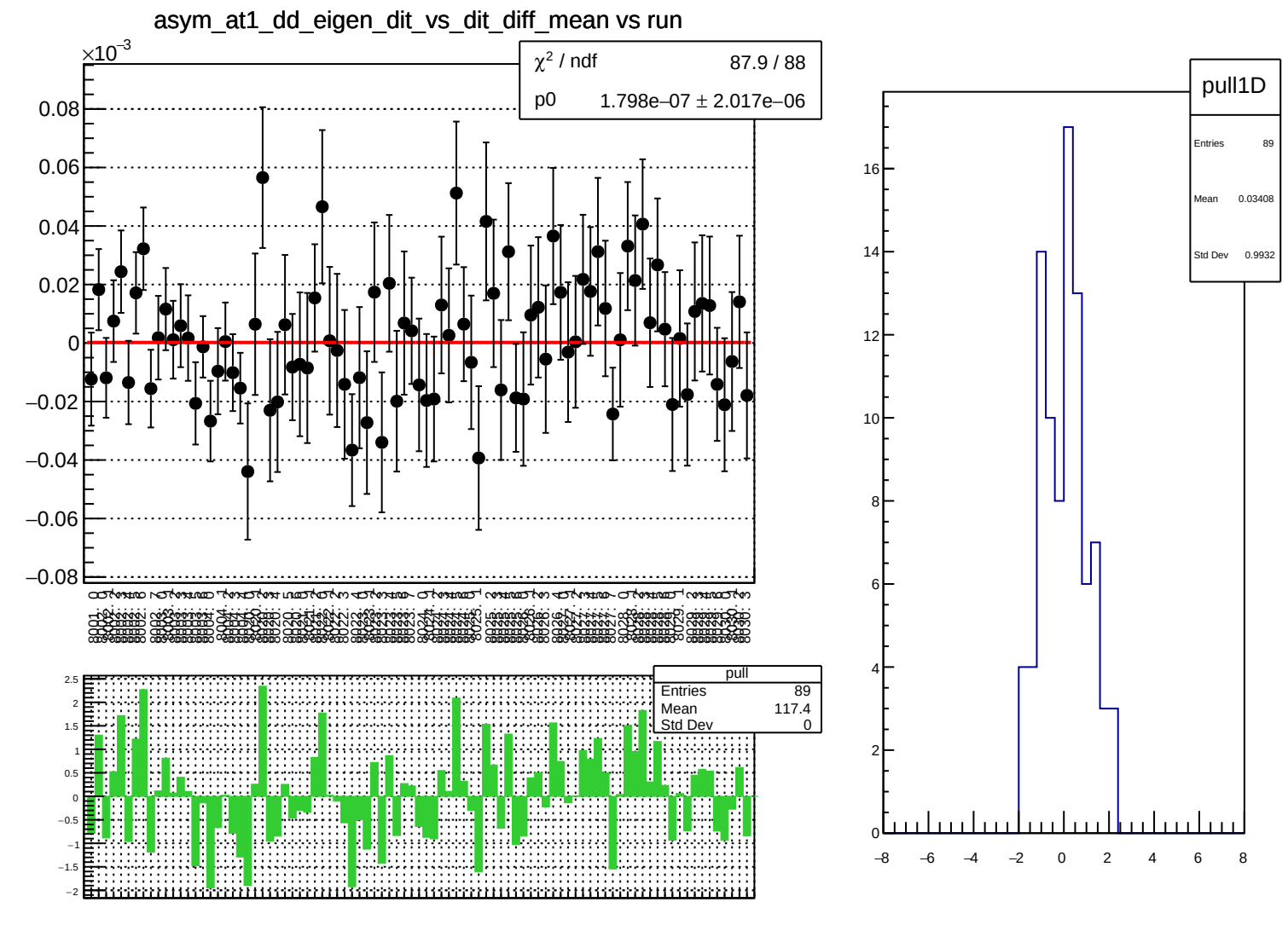

pull1D
Entries 89
Mean −0.05896
Std Dev 1.075

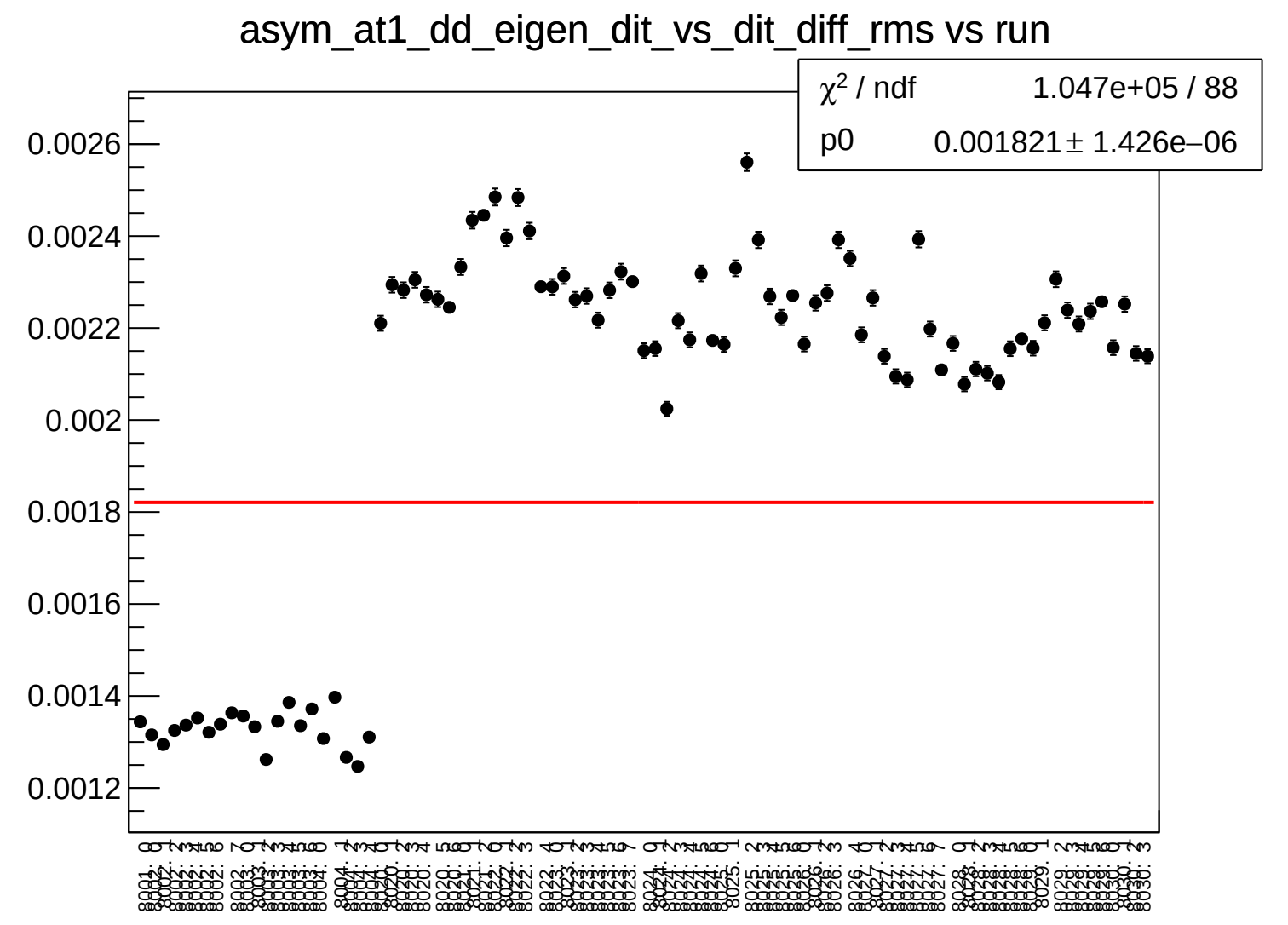

asym_at1_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.505e+05 / 88
p0 46.72 ± 0.03712
120
100
80
60
40

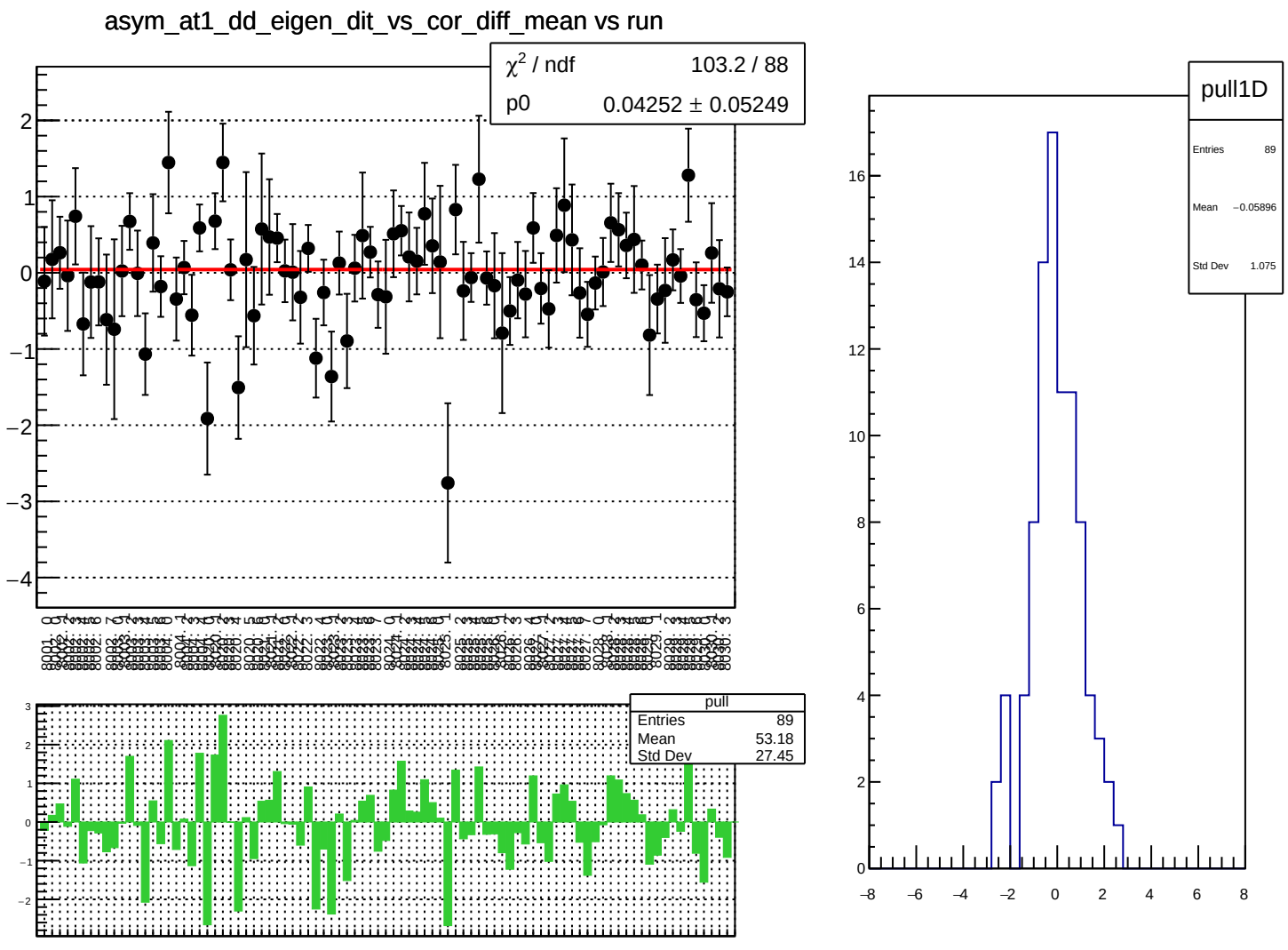

asym_at1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.2 / 88
p0 0.04251 ± 0.05249
pull
Entries 89
Mean 53.19
Std Dev 27.45

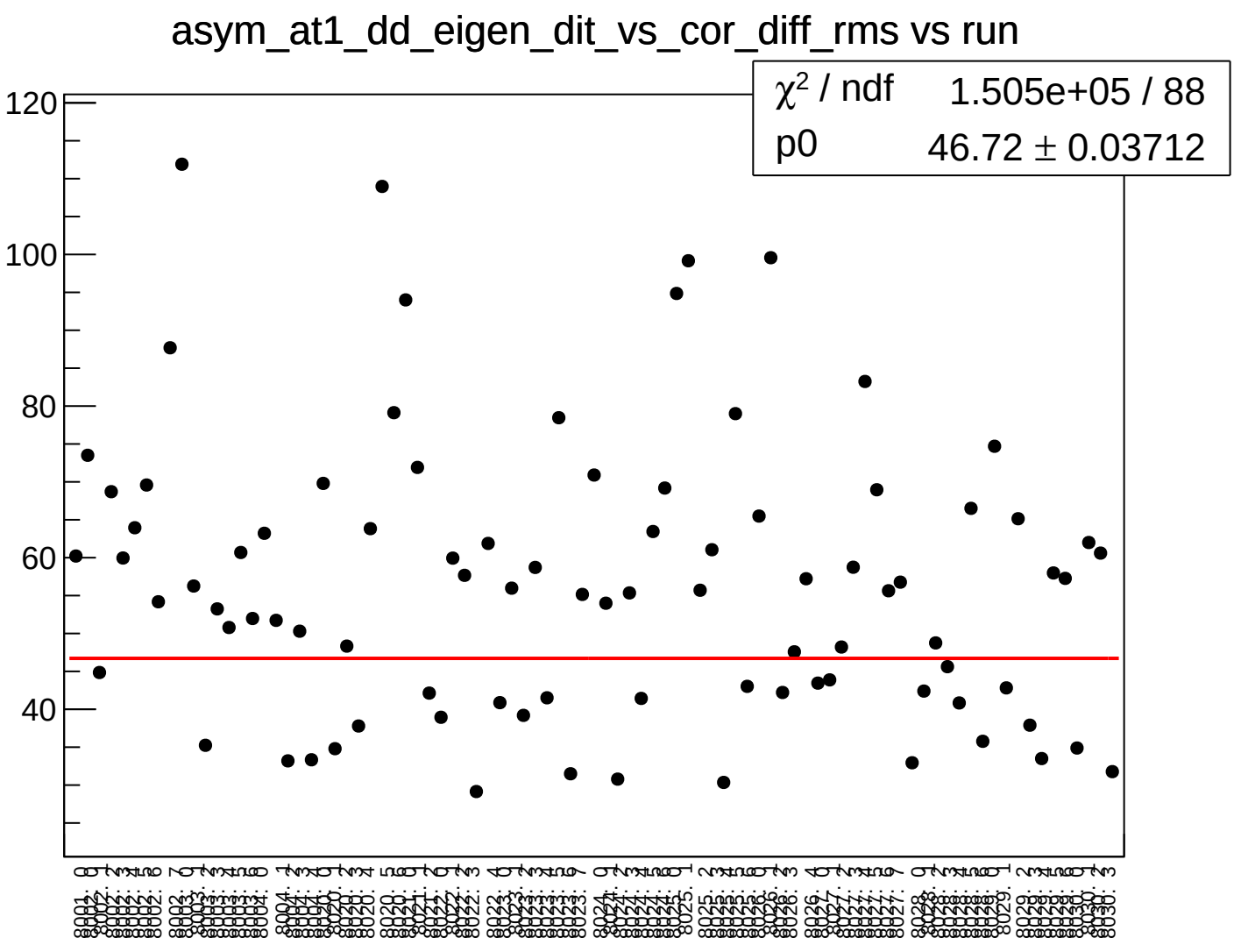

pull1D
Entries 89
Mean −0.05896
Std Dev 1.075

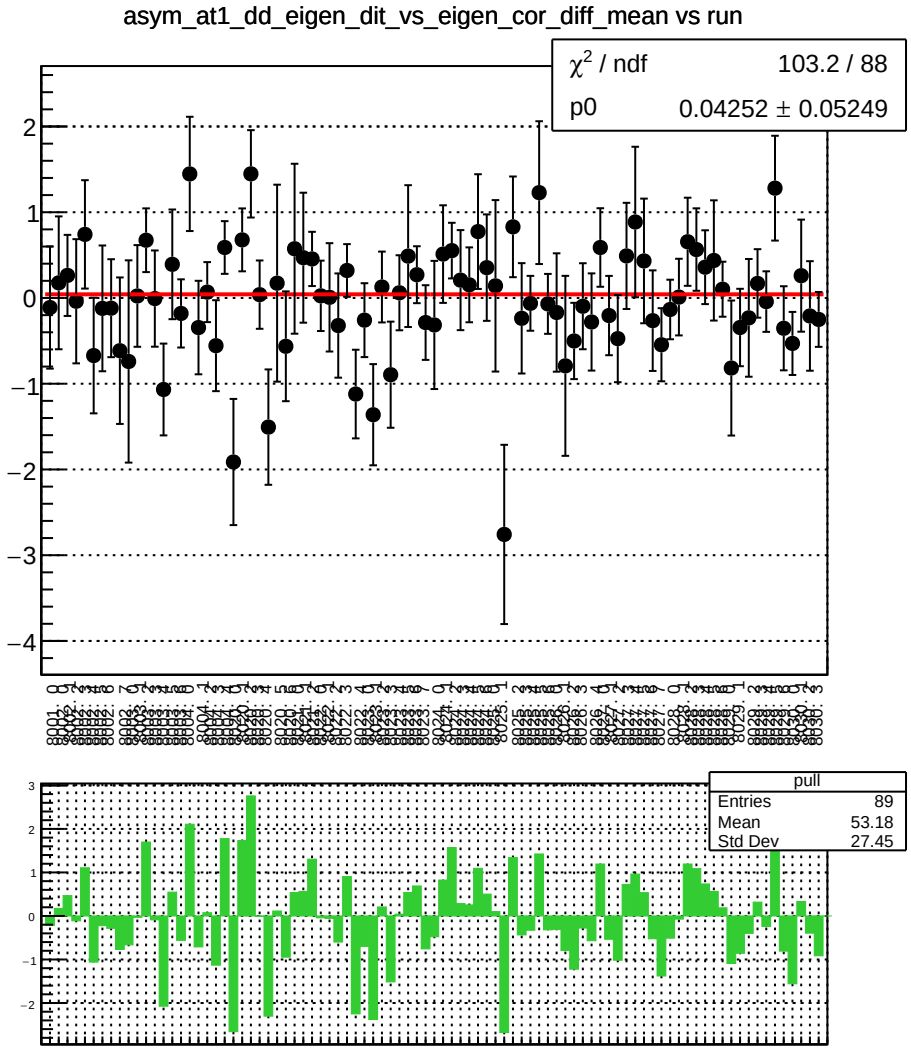

asym_at1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.505e+05 / 88
p0 46.72 ± 0.03712
120
100
80
60
40

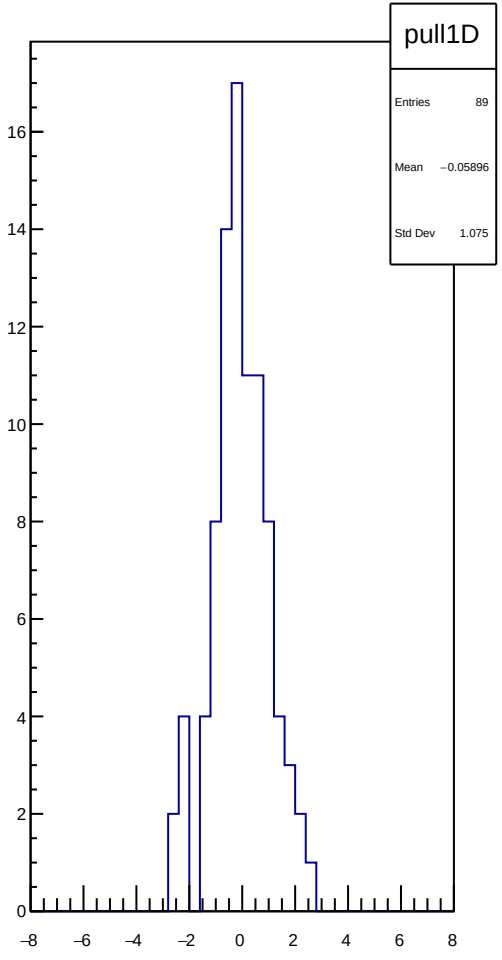

asym_at1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.9 / 88
p0 1.798e−07 ± 2.017e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 89
Mean 117.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean 0.03408
Std Dev 0.9932
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

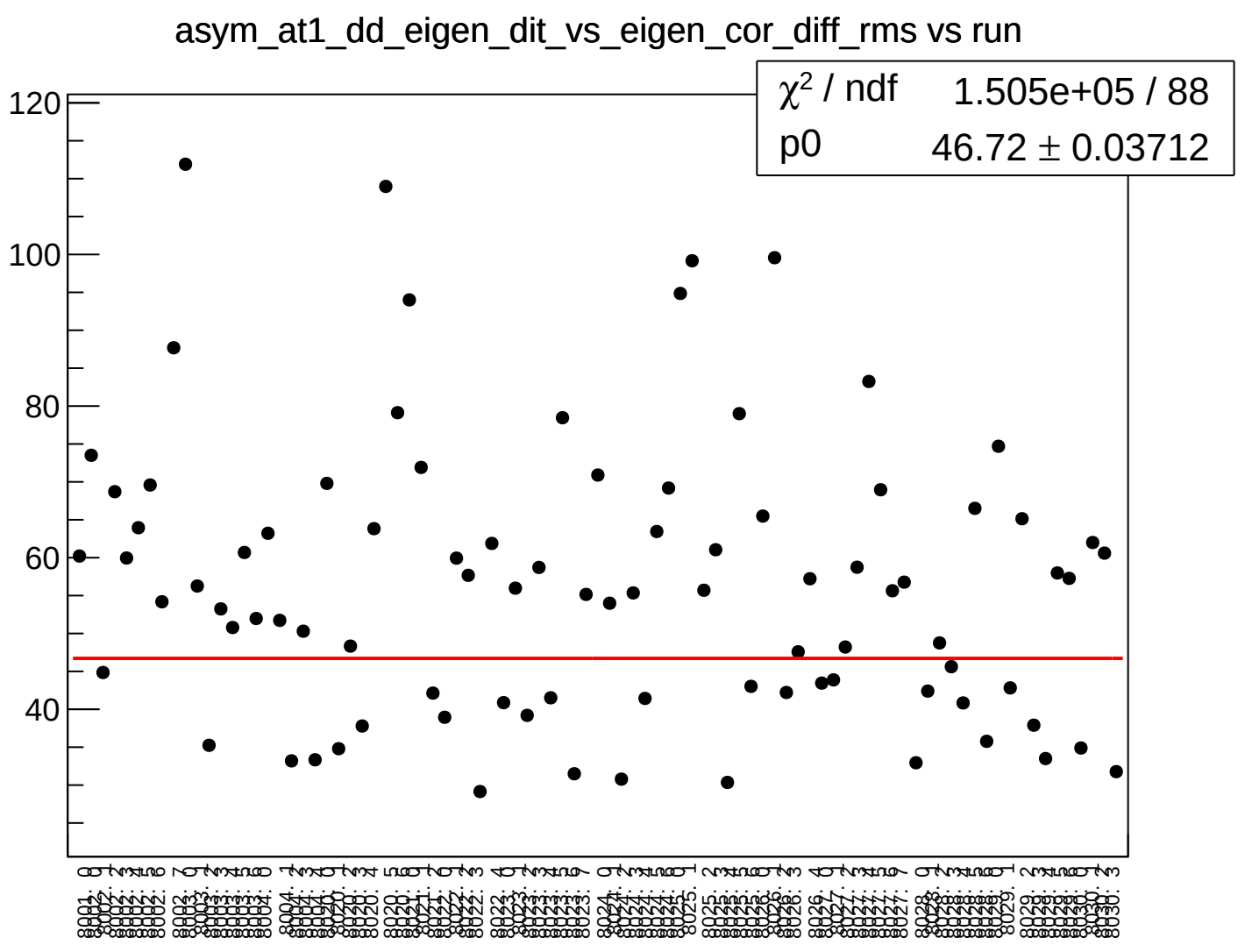

asym_at1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.047e+05 / 88
p0 0.001821 ± 1.426e−06
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012

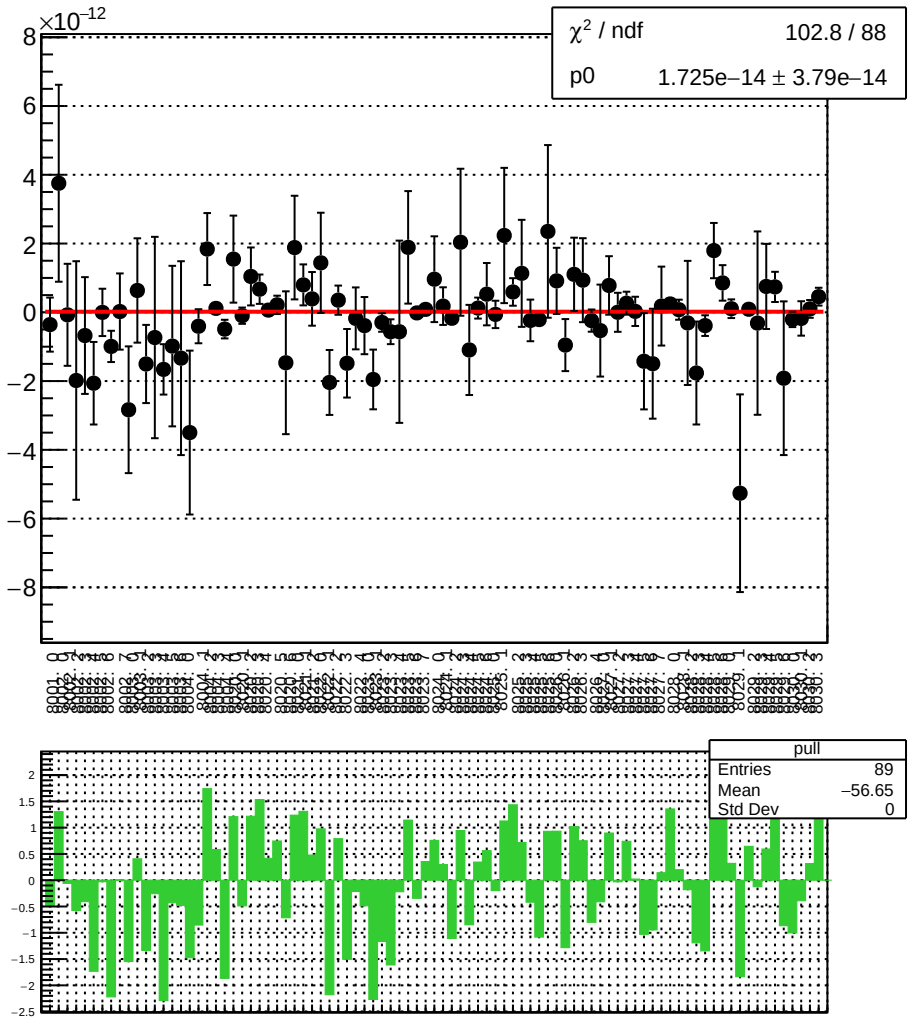

asym_at1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 103.2 / 88
p0 0.04252 ± 0.05249
pull
Entries 89
Mean 53.18
Std Dev 27.45
pull1D
Entries 89
Mean −0.05896
Std Dev 1.075

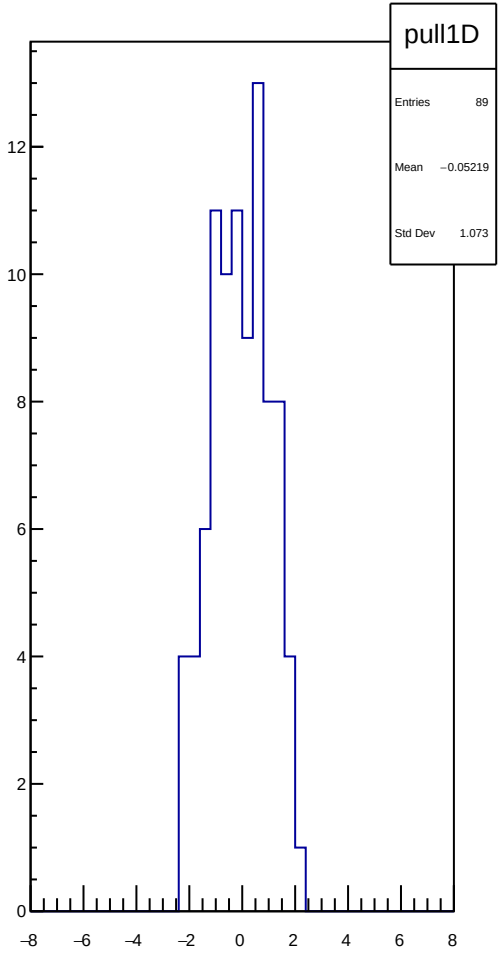

asym_at1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.505e+05 / 88
p0 46.72 ± 0.03712
120
100
80
60
40

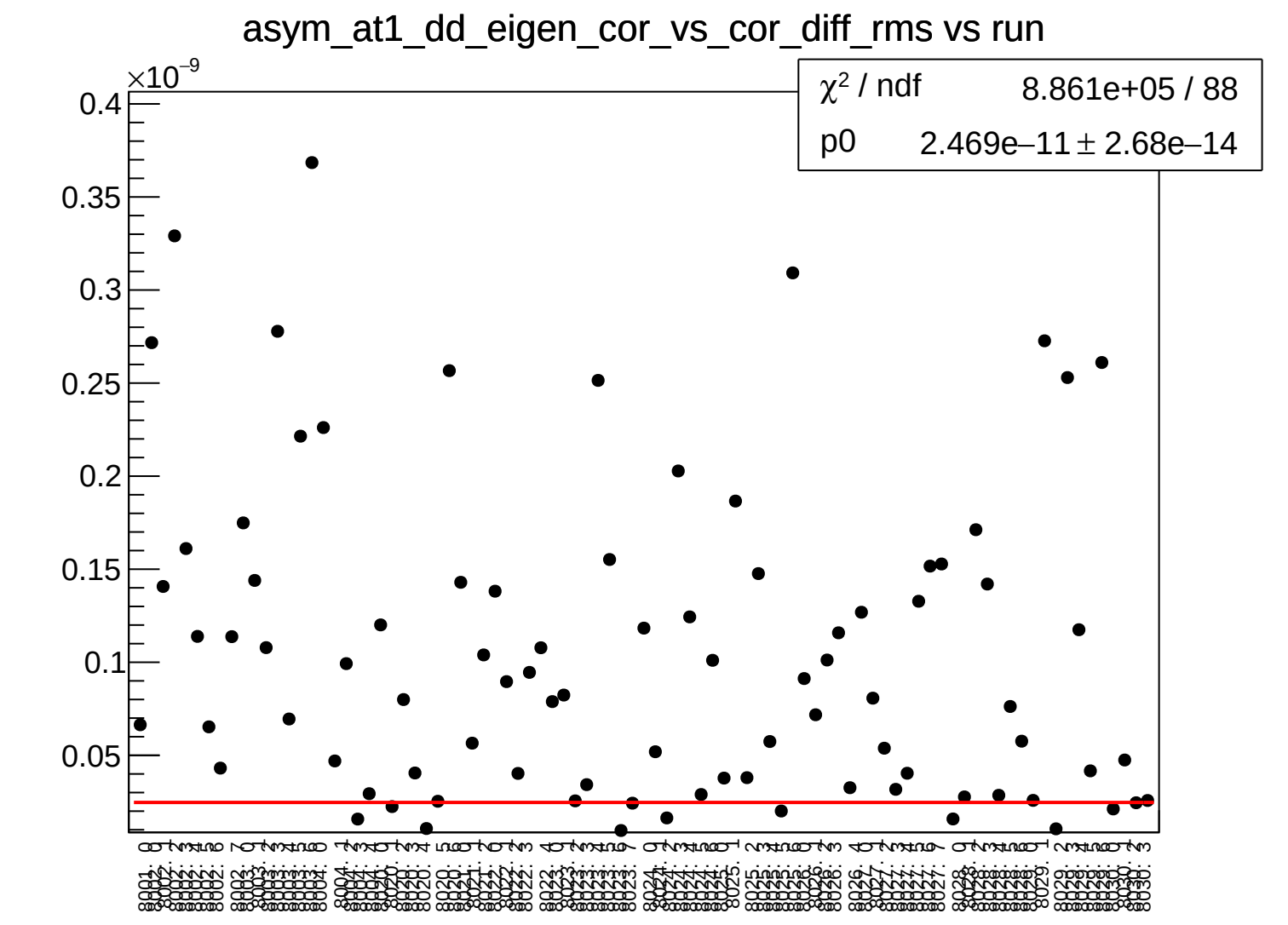

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.2 / 88
p0 0.04252 ± 0.05249
pull
Entries 89
Mean 53.18
Std Dev 27.45

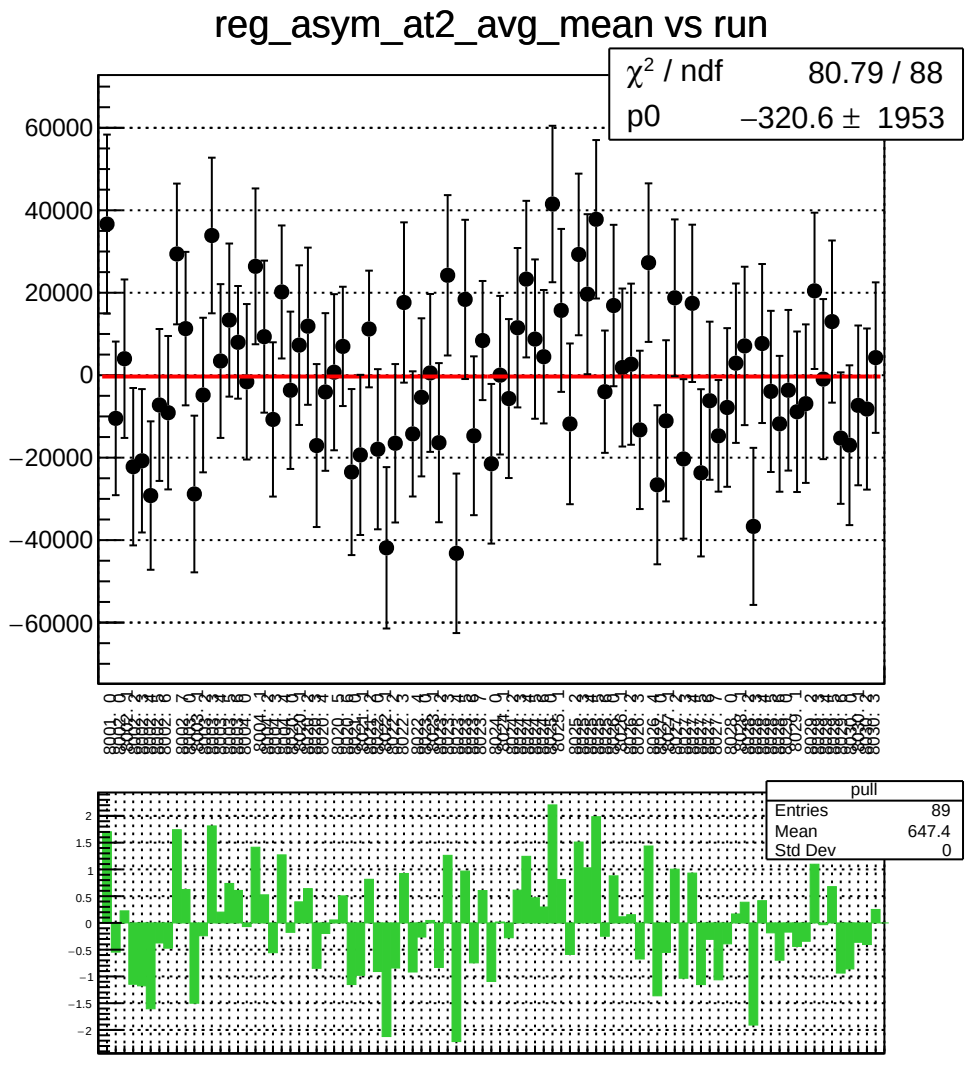

pull1D
Entries 89
Mean −0.05896
Std Dev 1.075

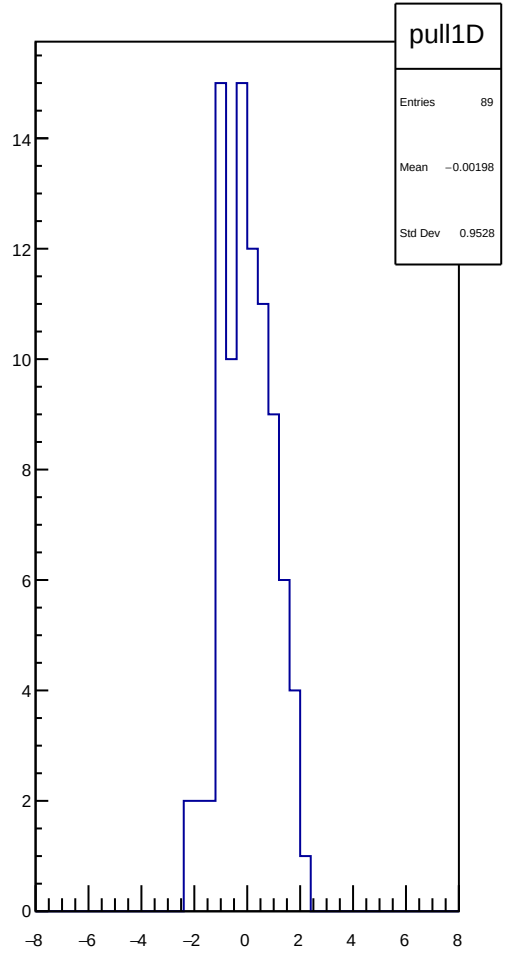

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.505e+05 / 88
p0 46.72 ± 0.03712
120
100
80
60
40

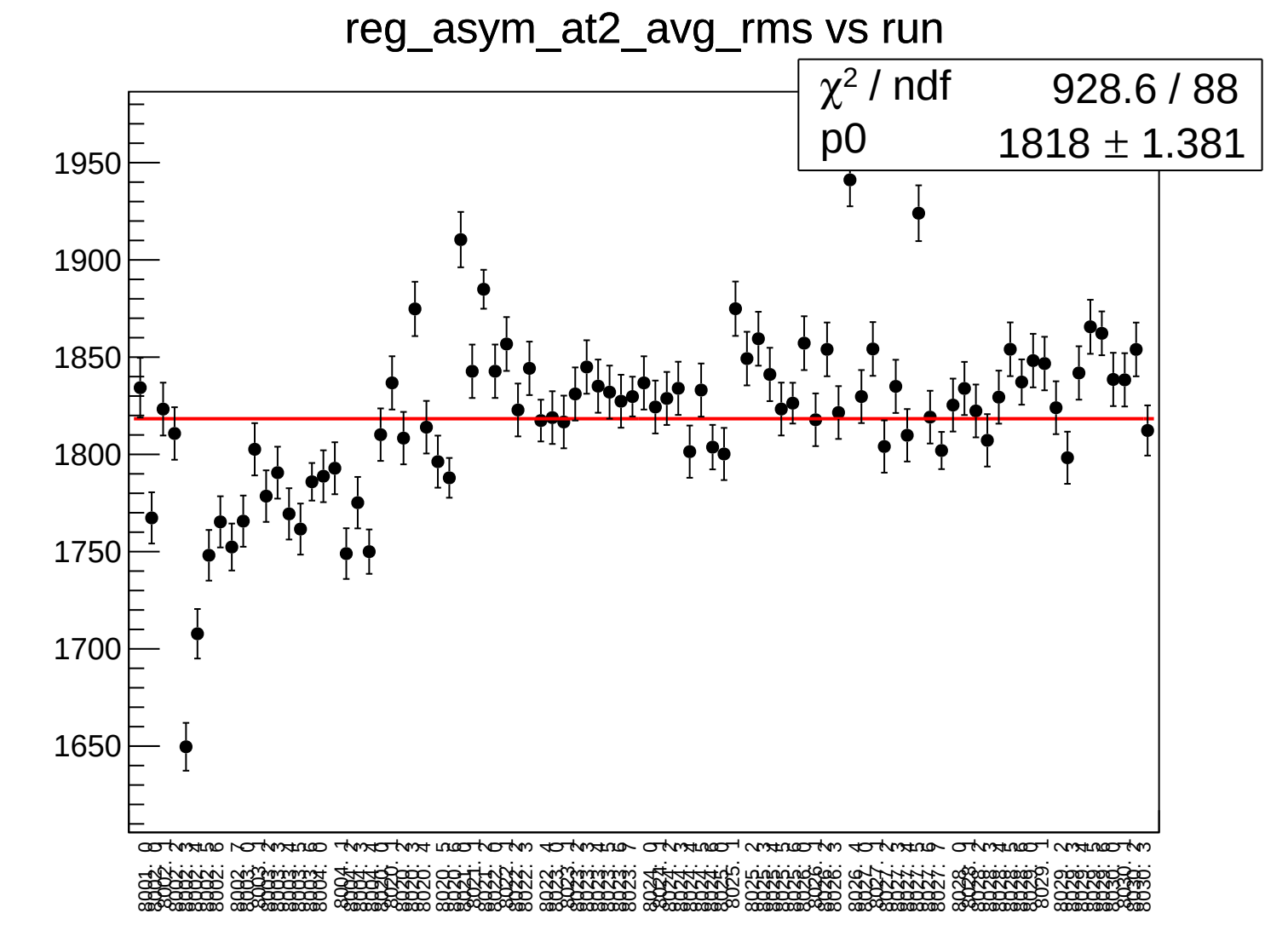

asym_at1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 102.8 / 88
p0 1.725e−14 ± 3.79e−14
pull
Entries 89
Mean −56.65
Std Dev 0

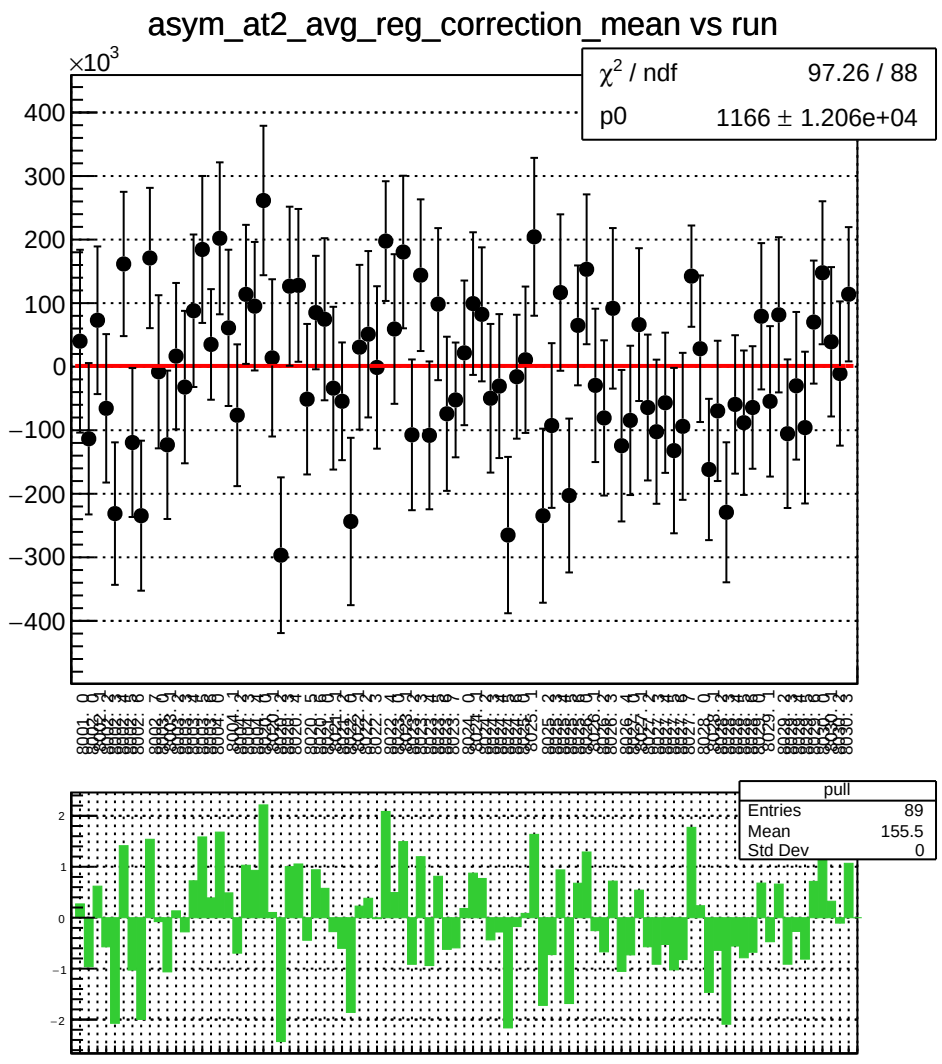

pull1D
Entries 89
Mean −0.05219
Std Dev 1.073

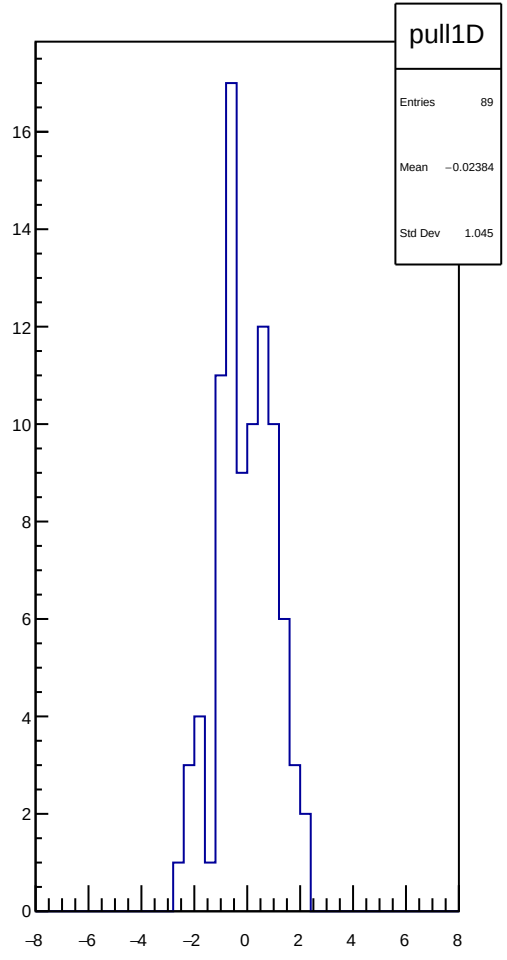

asym_at1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.861e+05 / 88
p0 2.469e−11 ± 2.68e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

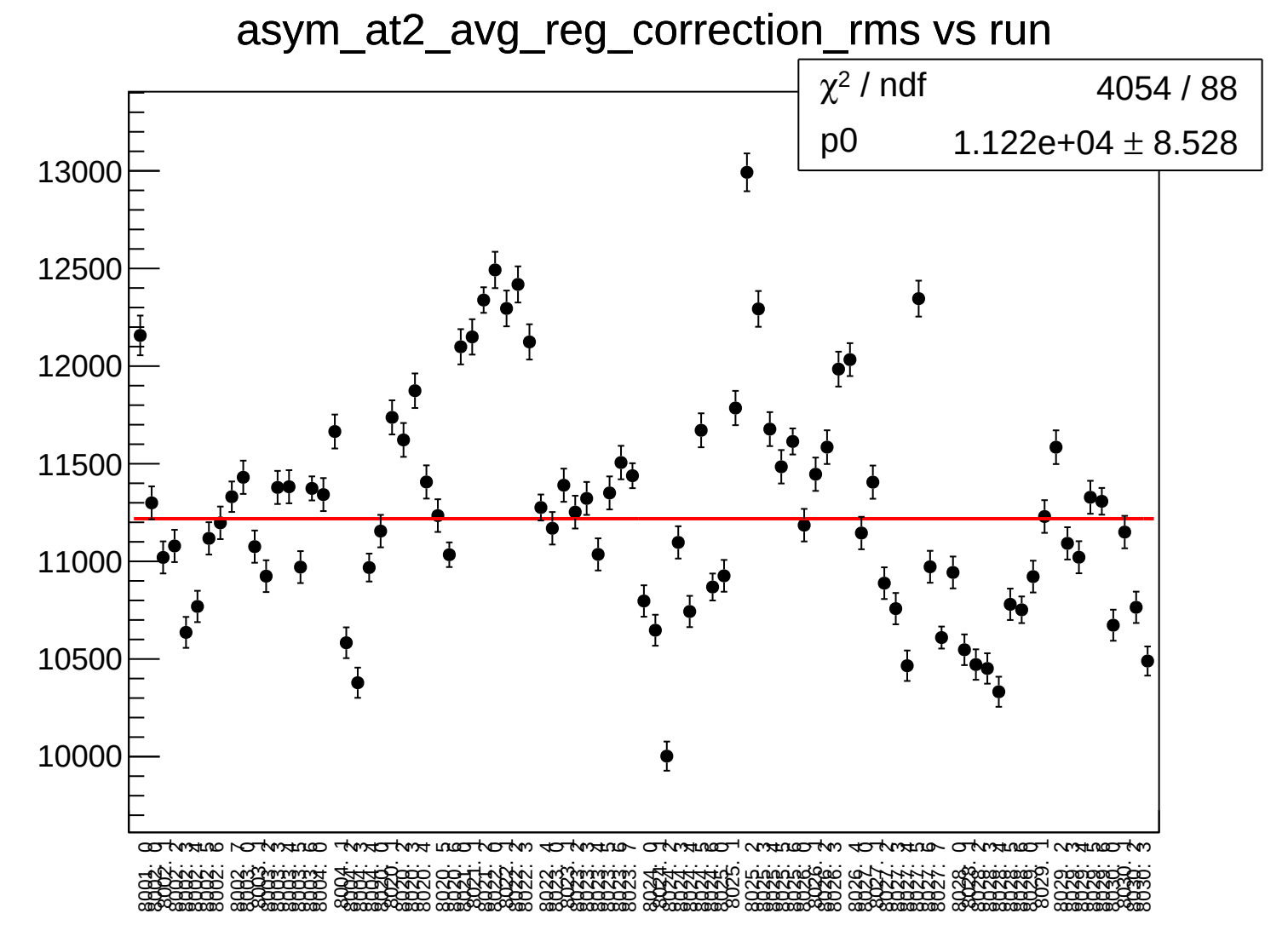

reg_asym_at2_avg_mean vs run
χ² / ndf 80.79 / 88
p0 −320.6 ± 1953
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 647.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

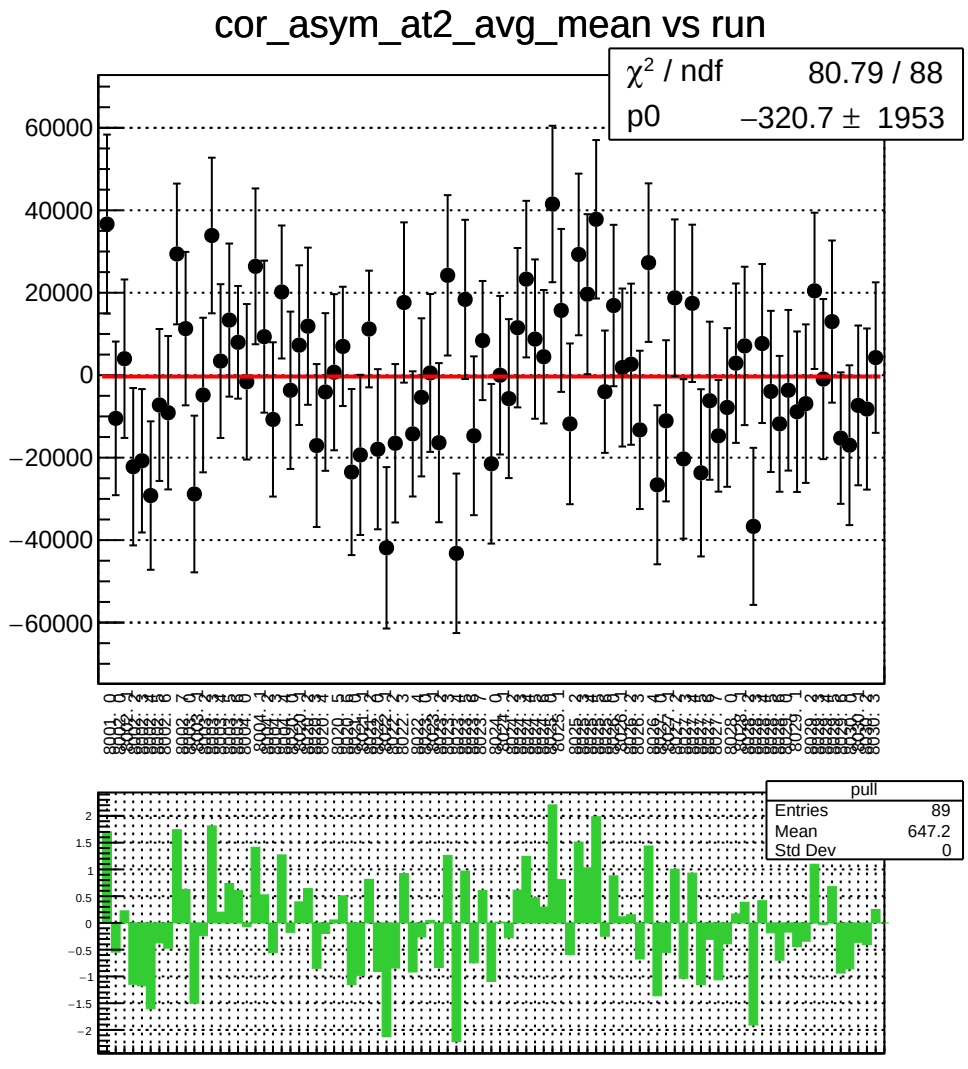

pull1D
Entries 89
Mean −0.00198
Std Dev 0.9528
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

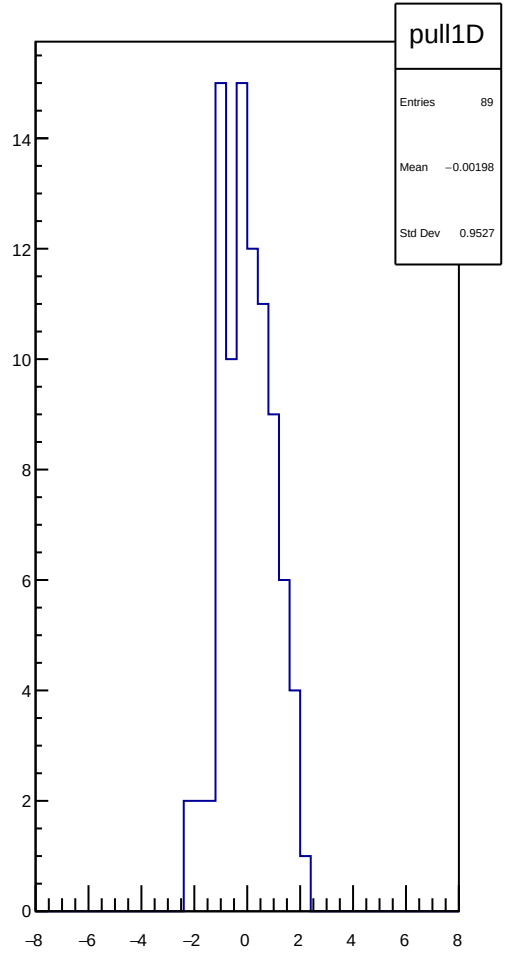

reg_asym_at2_avg_rms vs run
χ^2 / ndf 928.6 / 88
p0 1818 ± 1.381
1950
1900
1850
1800
1750
1700
1650

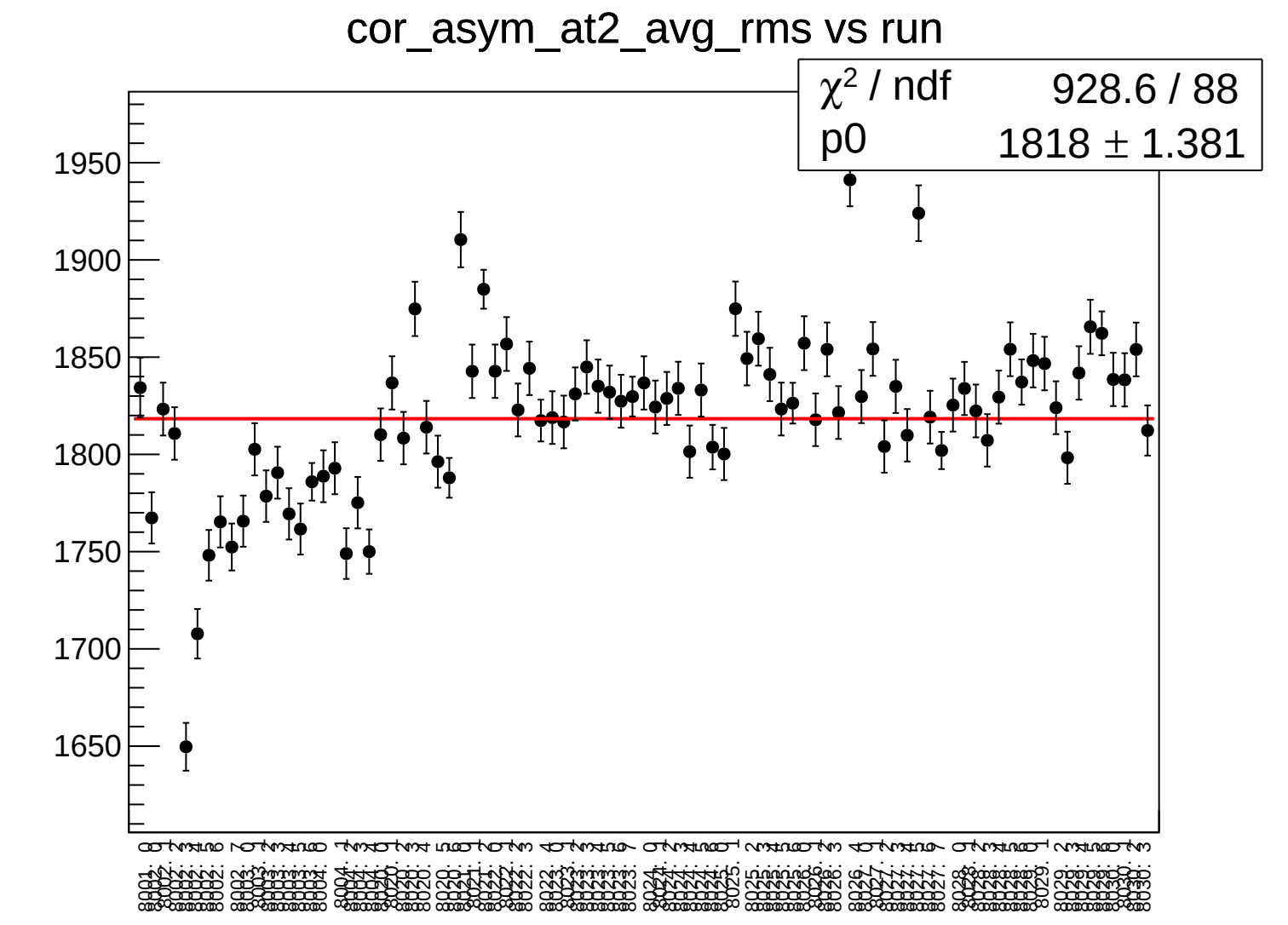

asym_at2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 97.26 / 88
p0 1166 ± 1.206e+04
pull
Entries 89
Mean 155.5
Std Dev 0

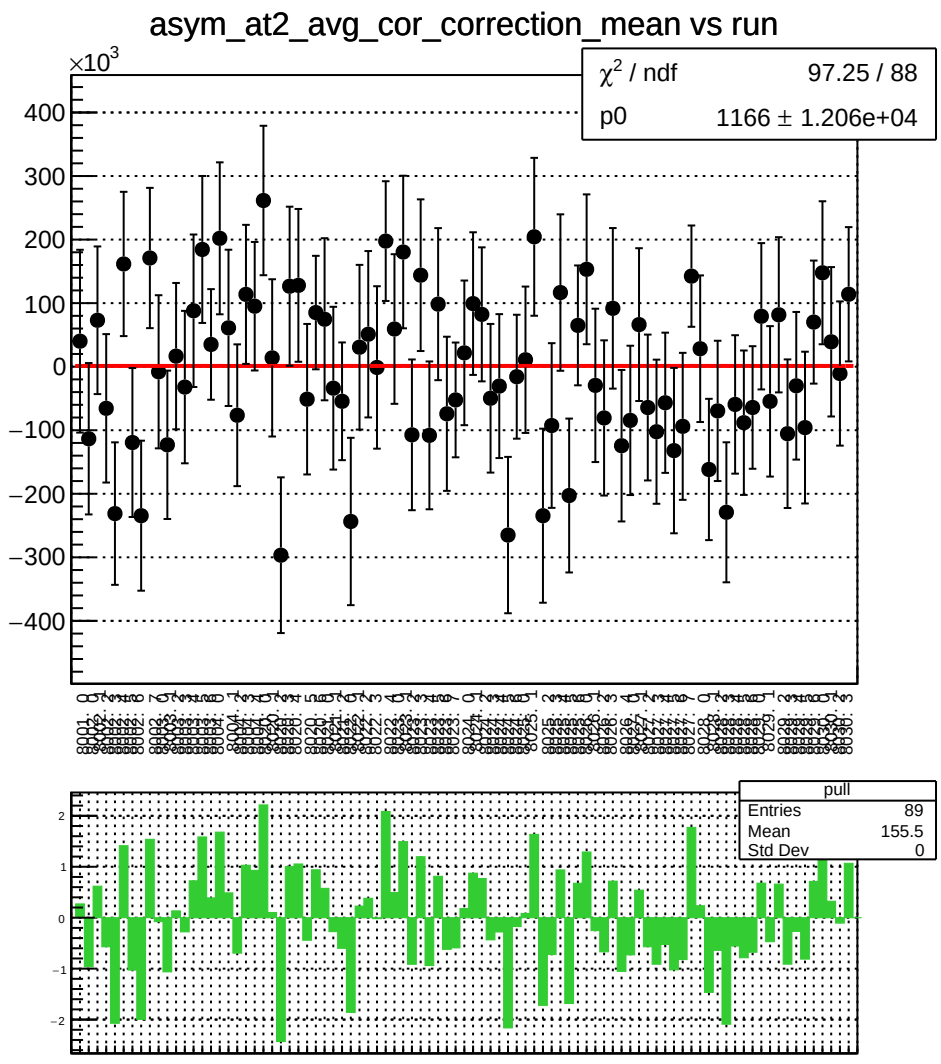

pull1D
Entries 89
Mean −0.02384
Std Dev 1.045

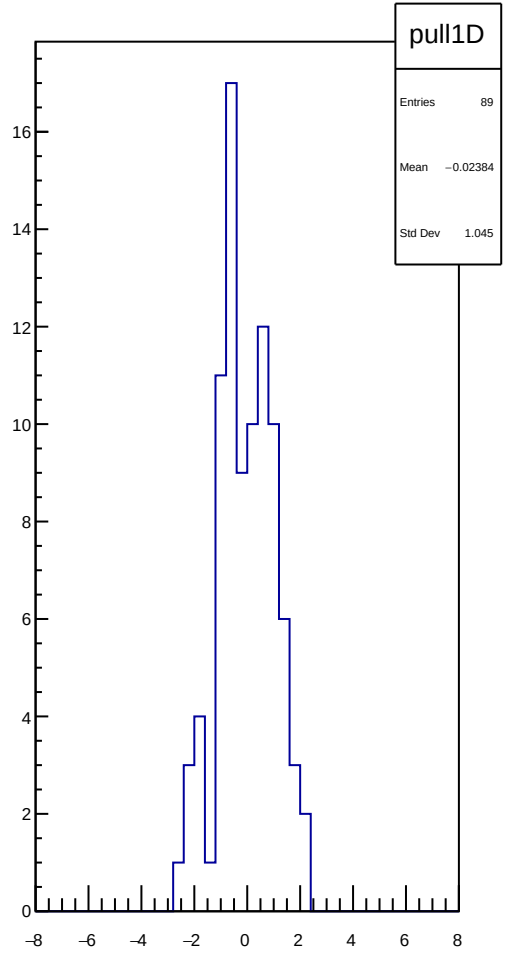

asym_at2_avg_reg_correction_rms vs run
χ² / ndf 4054 / 88
p0 1.122e+04 ± 8.528
13000
12500
12000
11500
11000
10500
10000

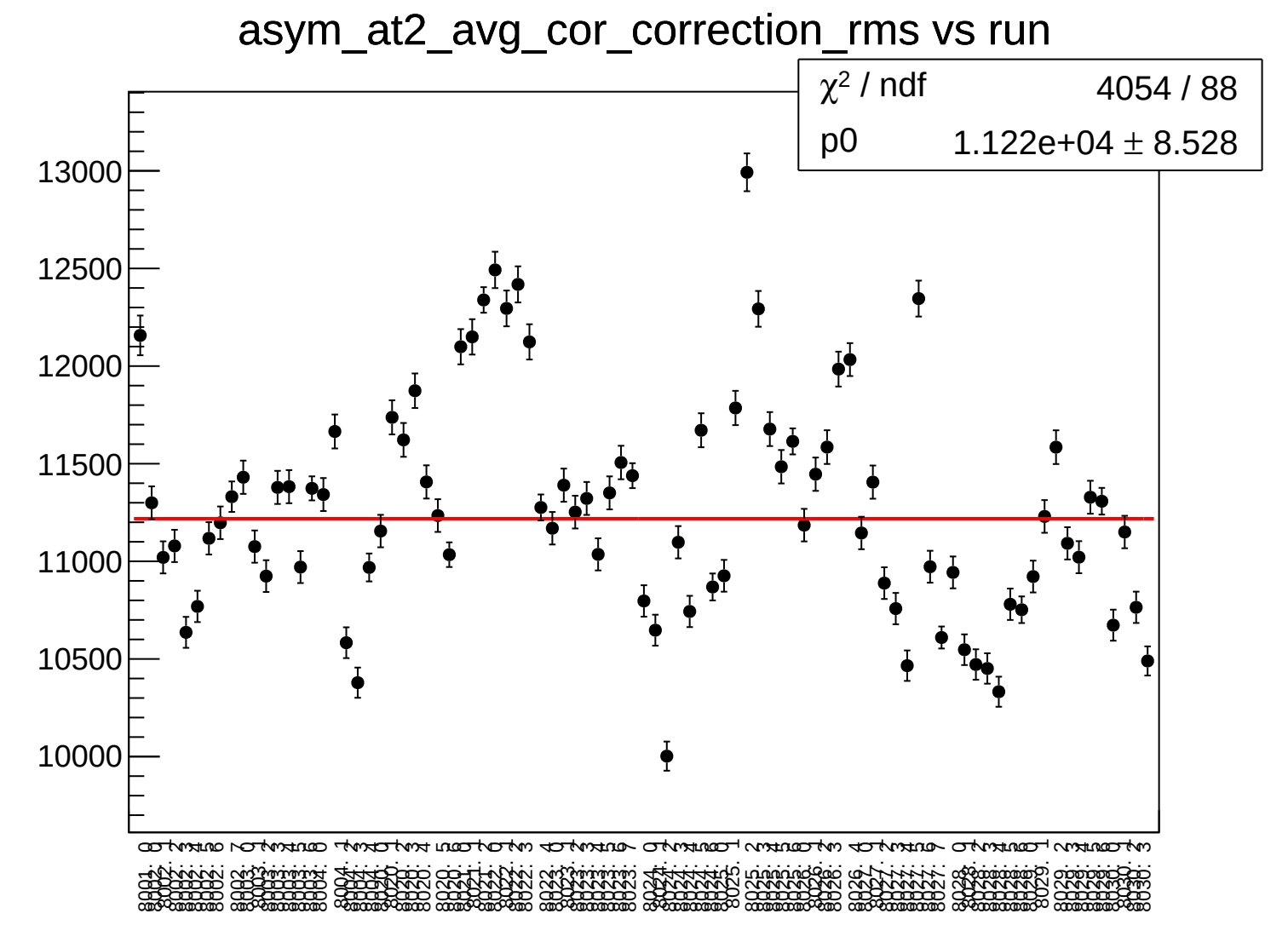

cor_asym_at2_avg_mean vs run
χ² / ndf 80.79 / 88
p0 −320.7 ± 1953
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 647.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

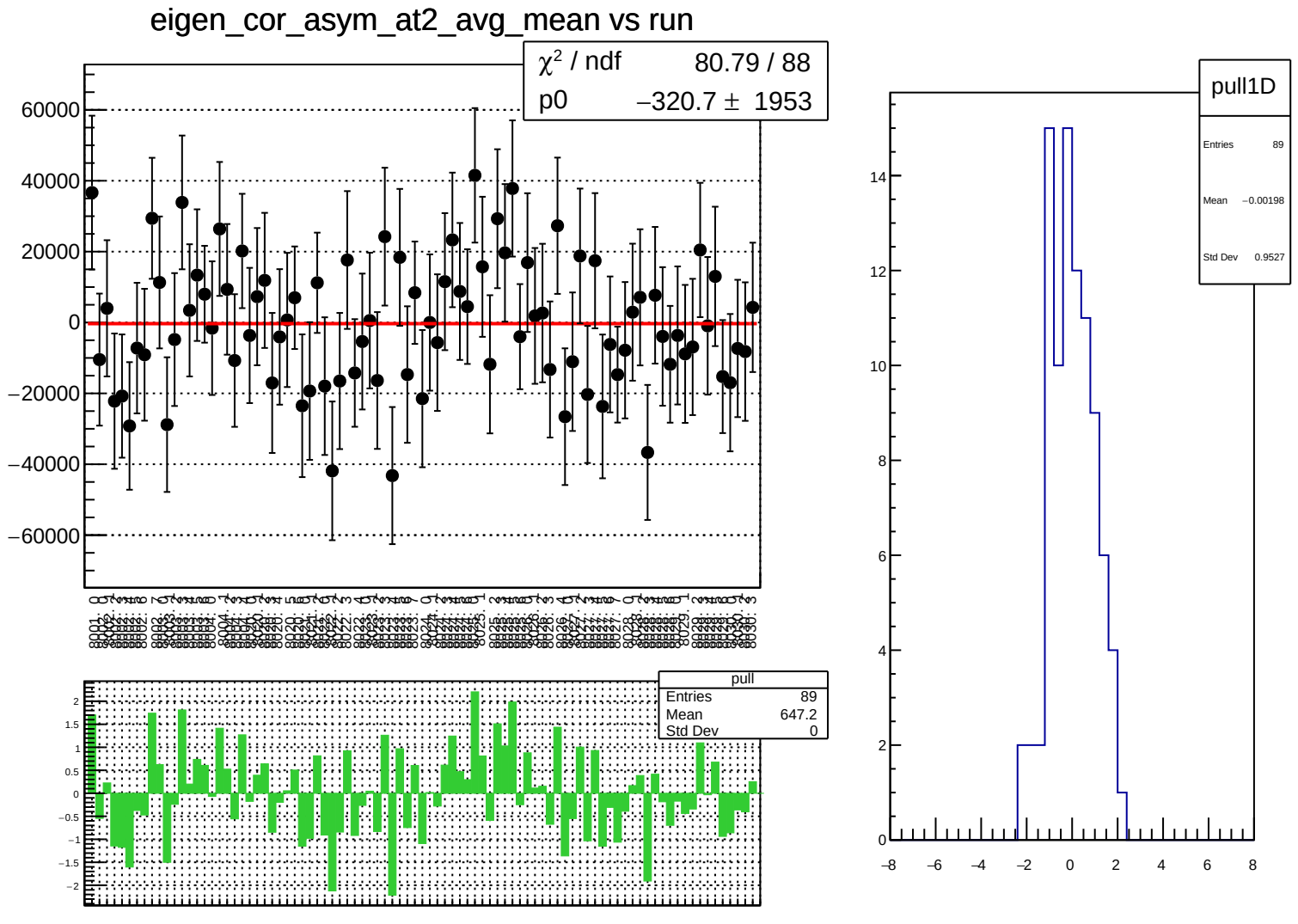

pull1D
Entries 89
Mean −0.00198
Std Dev 0.9527
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

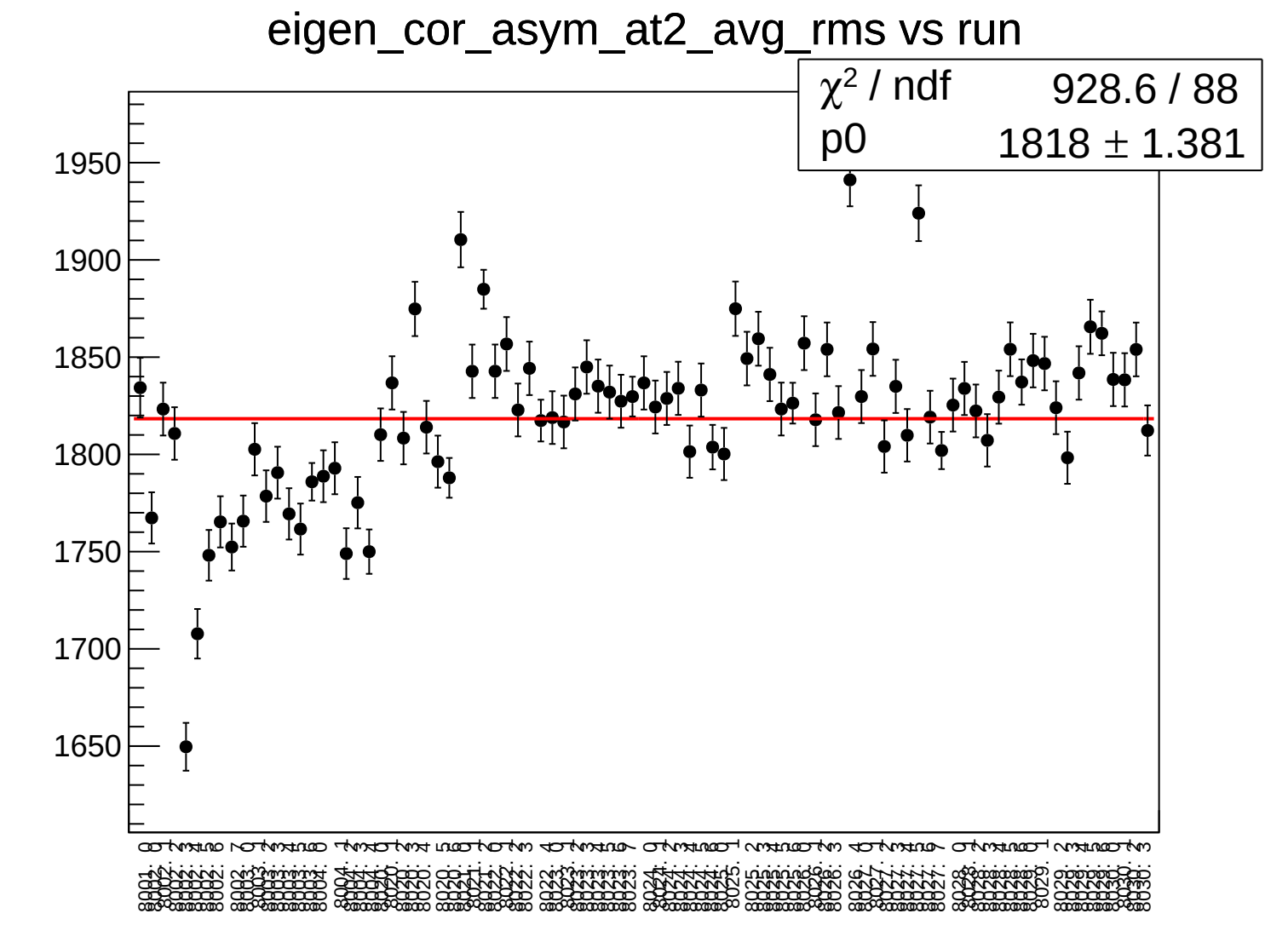

cor_asym_at2_avg_rms vs run
χ^2 / ndf 928.6 / 88
p0 1818 ± 1.381
1950
1900
1850
1800
1750
1700
1650

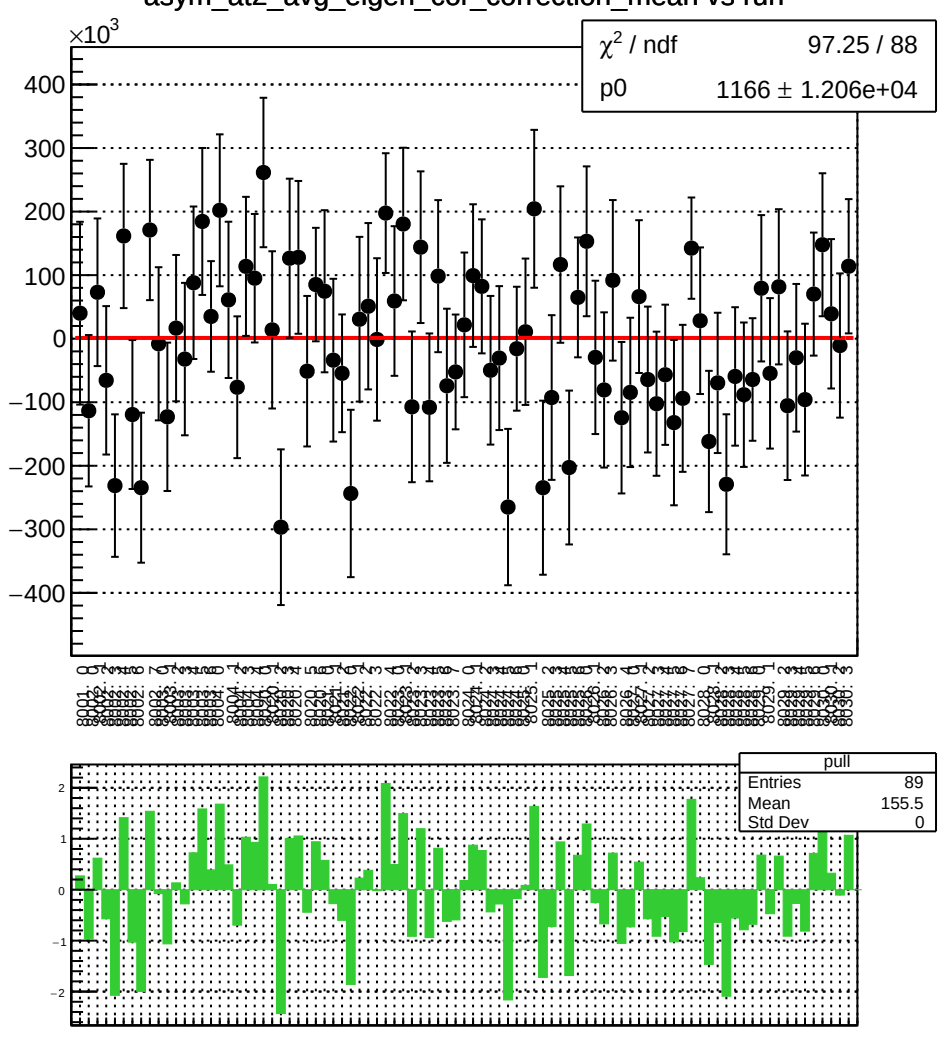

asym_at2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 97.25 / 88
p0 1166 ± 1.206e+04
pull
Entries 89
Mean 155.5
Std Dev 0

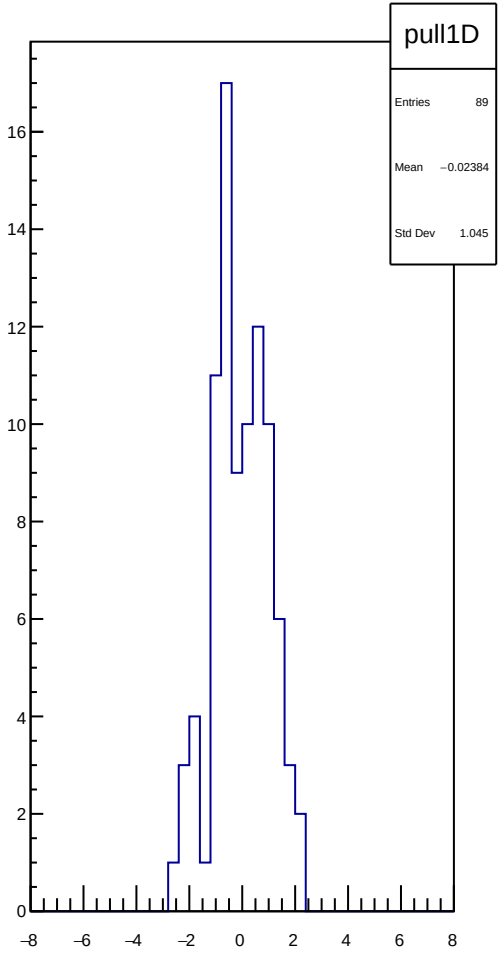

pull1D
Entries 89
Mean −0.02384
Std Dev 1.045

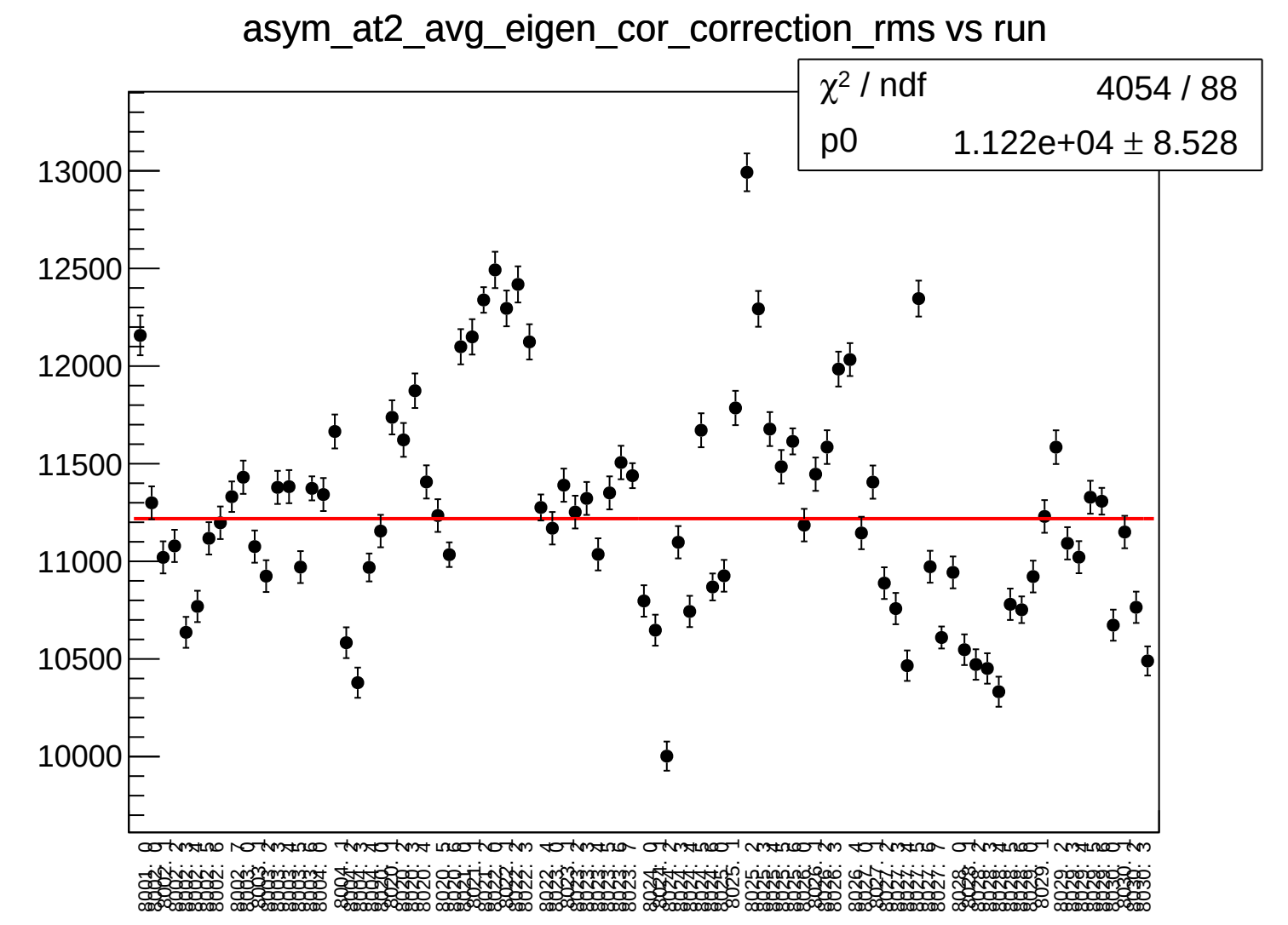

asym_at2_avg_cor_correction_rms vs run
χ² / ndf 4054 / 88
p0 1.122e+04 ± 8.528
13000
12500
12000
11500
11000
10500
10000

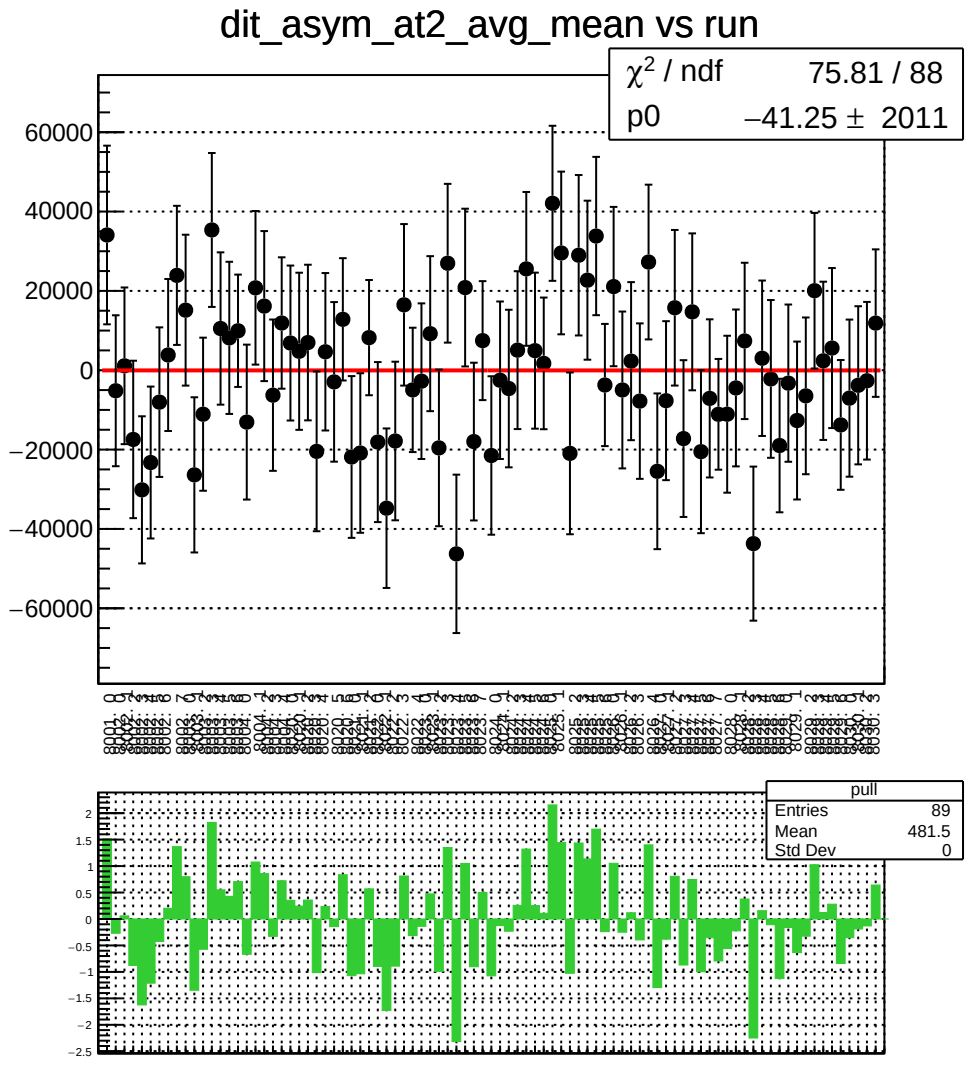

eigen_cor_asym_at2_avg_mean vs run
χ² / ndf 80.79 / 88
p0 −320.7 ± 1953
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 647.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean −0.00198
Std Dev 0.9527
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

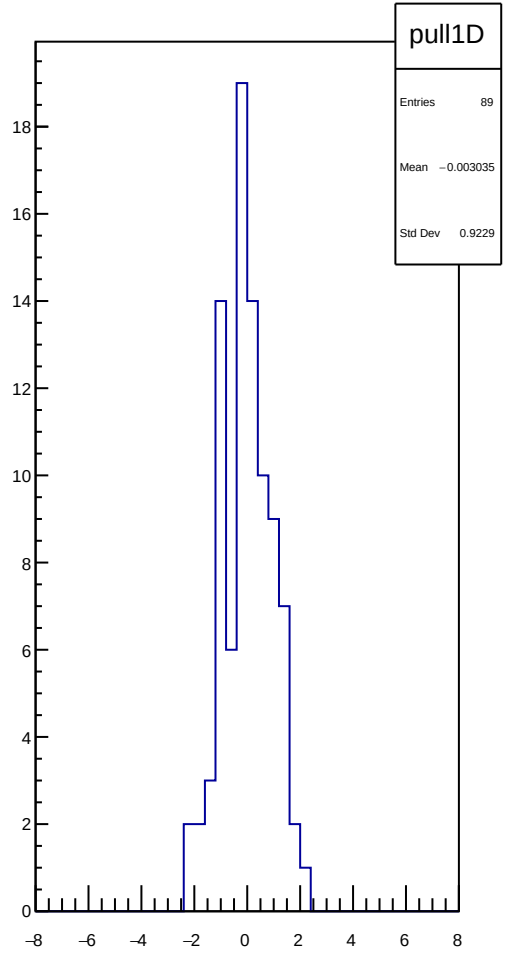

eigen_cor_asym_at2_avg_rms vs run
χ² / ndf 928.6 / 88
p0 1818 ± 1.381
1950
1900
1850
1800
1750
1700
1650

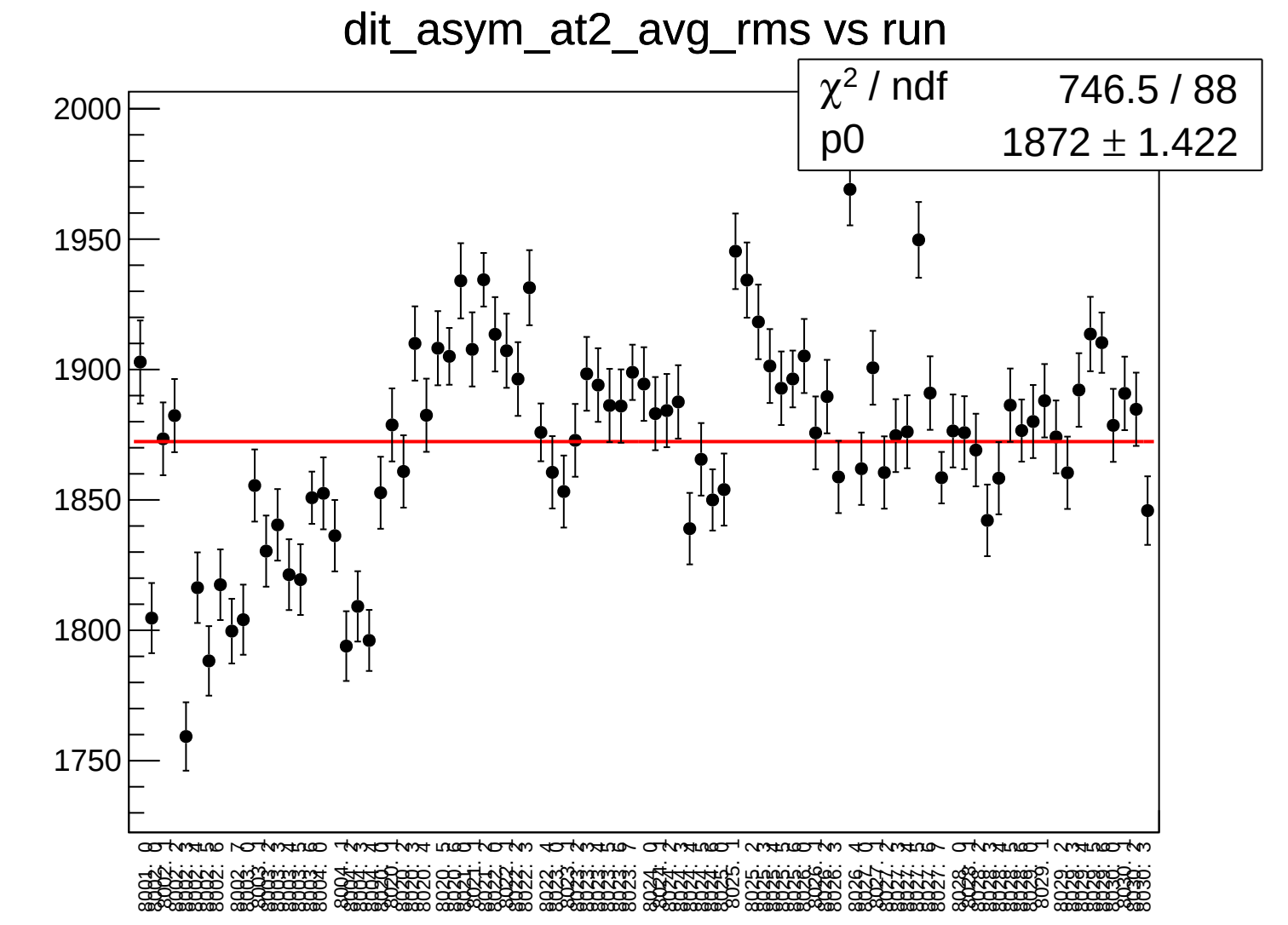

asym_at2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 97.25 / 88
p0 1166 ± 1.206e+04
pull
Entries 89
Mean 155.5
Std Dev 0

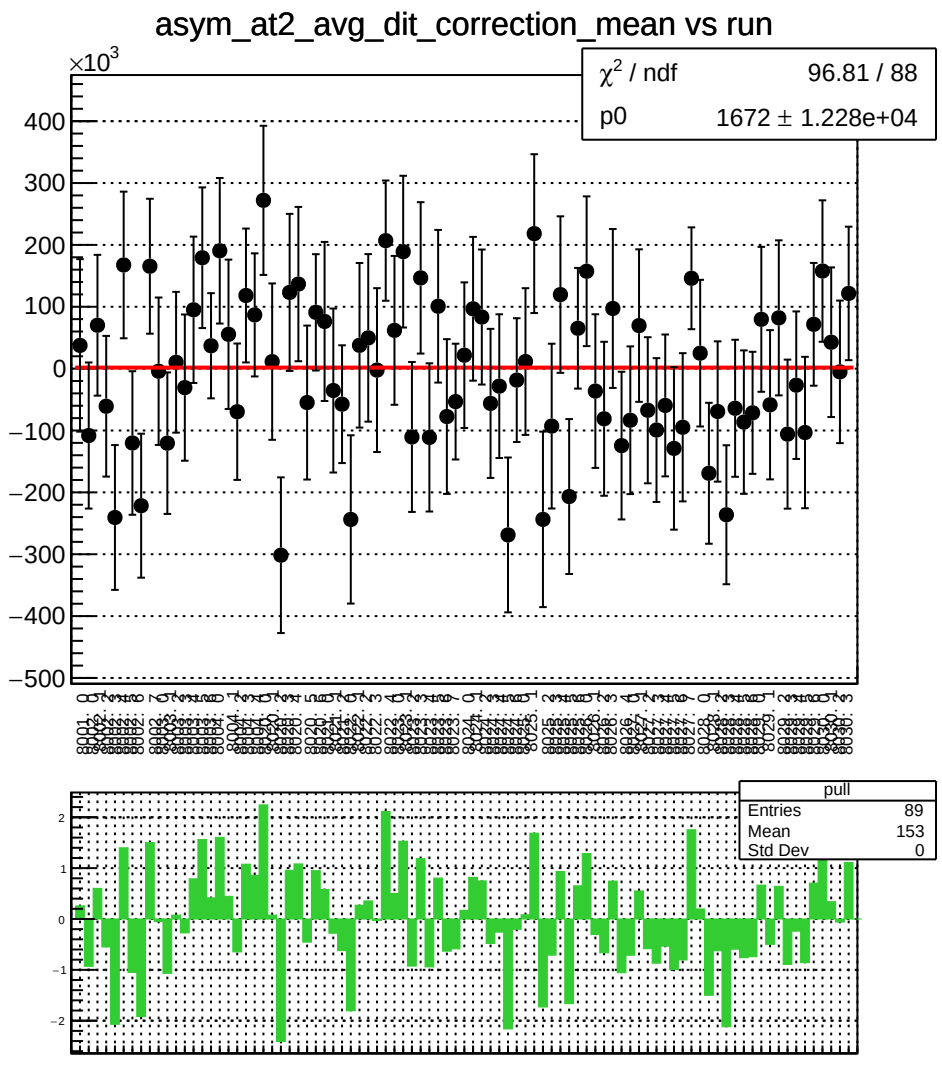

pull1D
Entries 89
Mean −0.02384
Std Dev 1.045

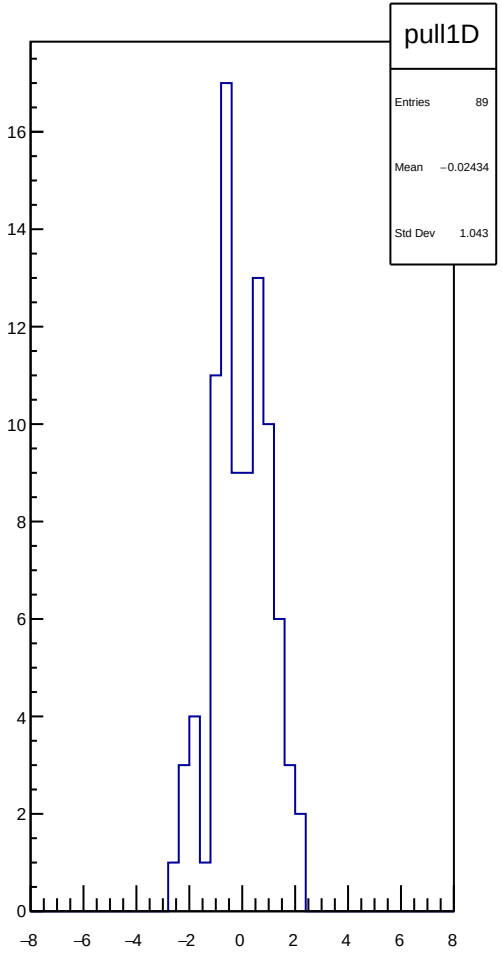

asym_at2_avg_eigen_cor_correction_rms vs run
χ² / ndf 4054 / 88
p0 1.122e+04 ± 8.528
13000
12500
12000
11500
11000
10500
10000

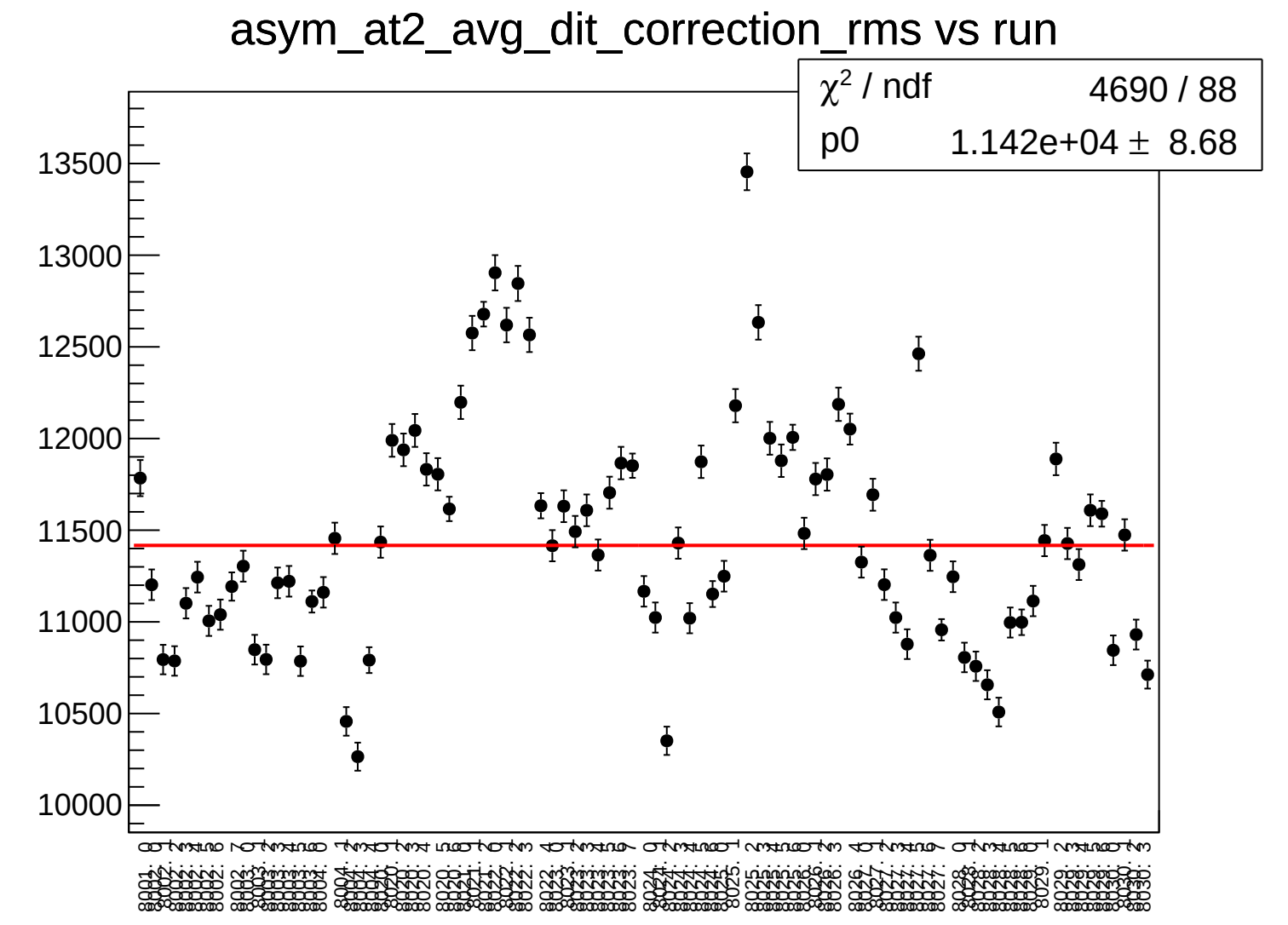

dit_asym_at2_avg_mean vs run
χ² / ndf 75.81 / 88
p0 −41.25 ± 2011
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 481.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

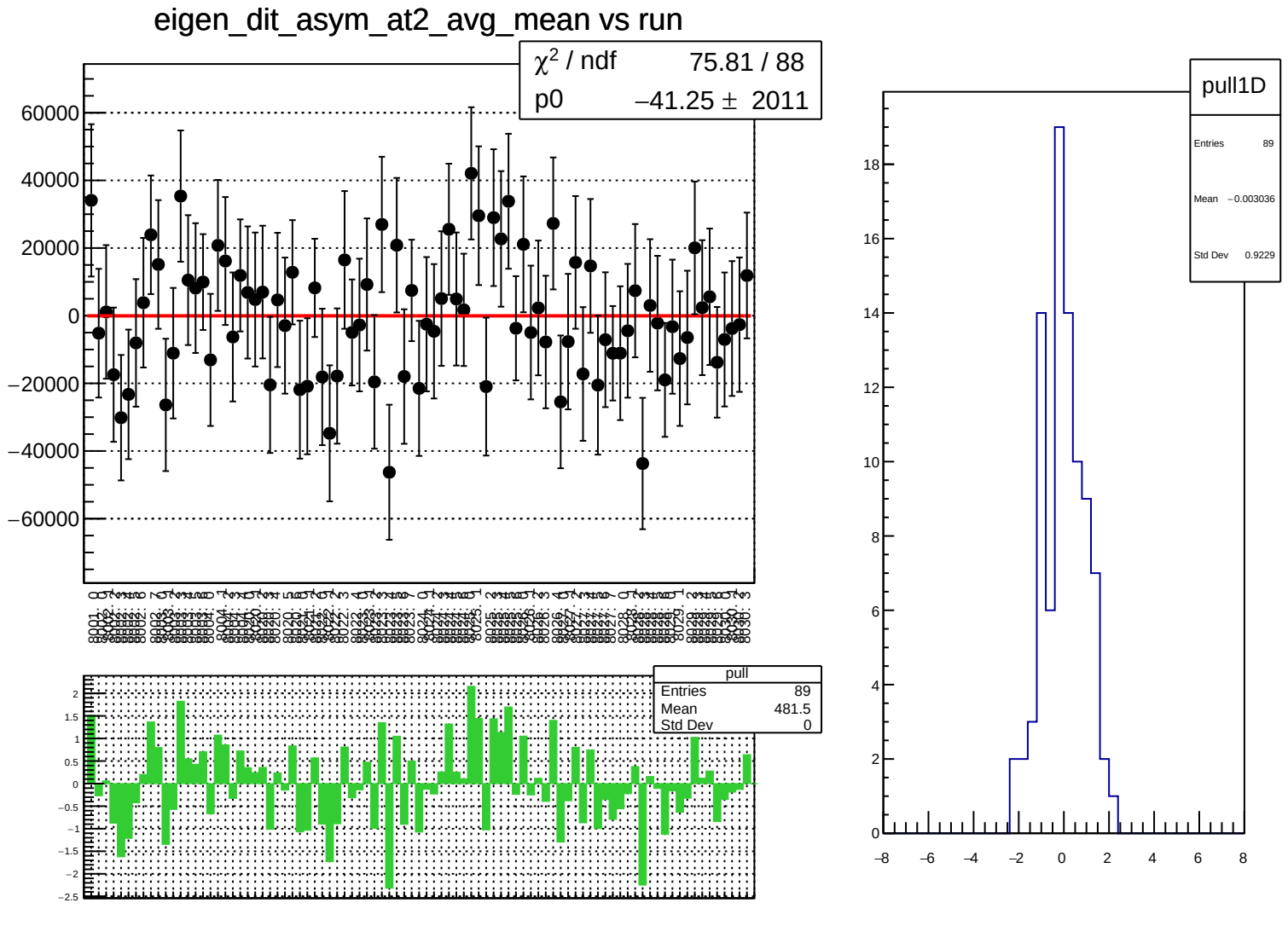

pull1D
Entries 89
Mean −0.003035
Std Dev 0.9229
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

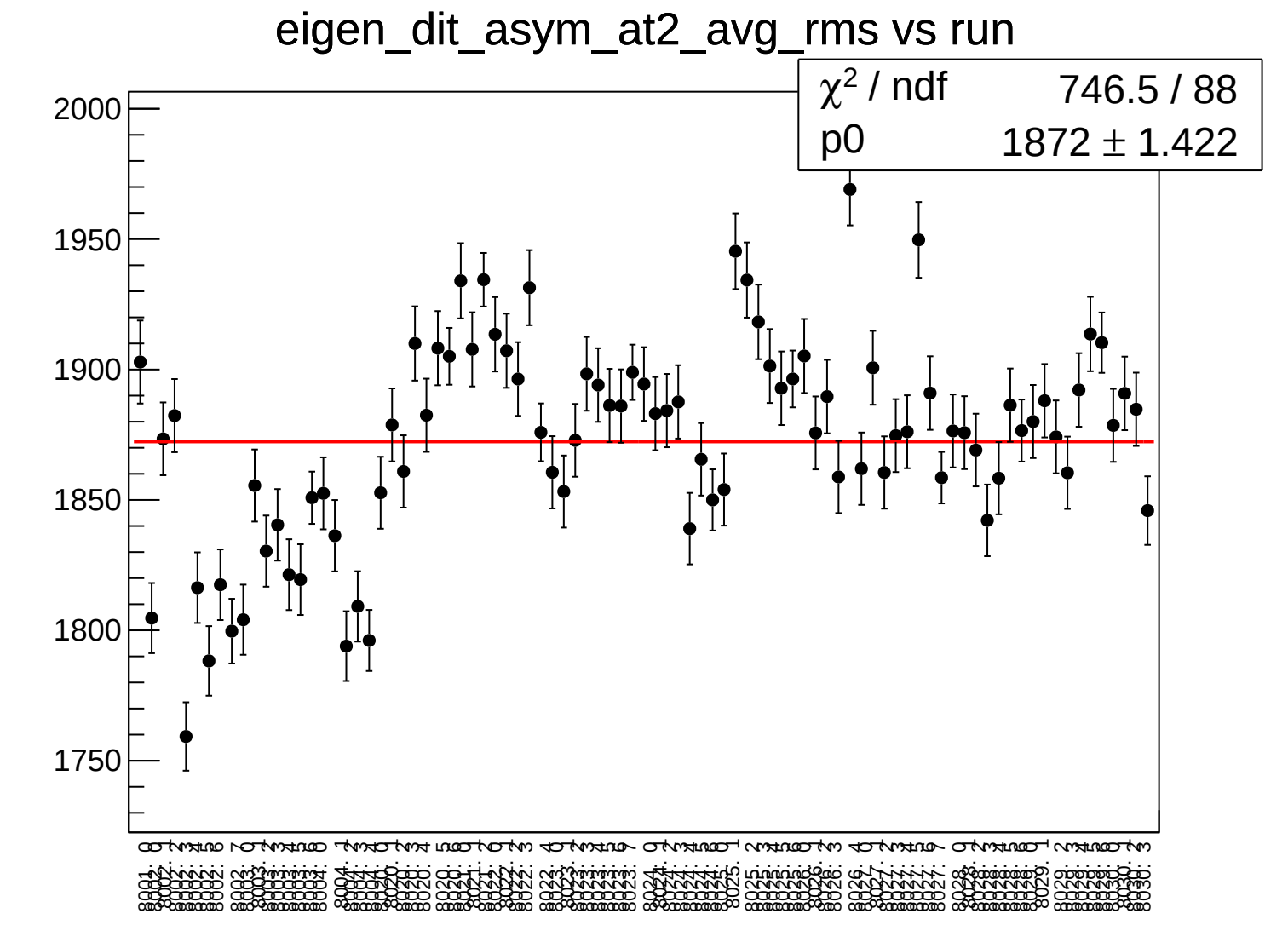

dit_asym_at2_avg_rms vs run
χ² / ndf 746.5 / 88
p0 1872 ± 1.422
2000
1950
1900
1850
1800
1750

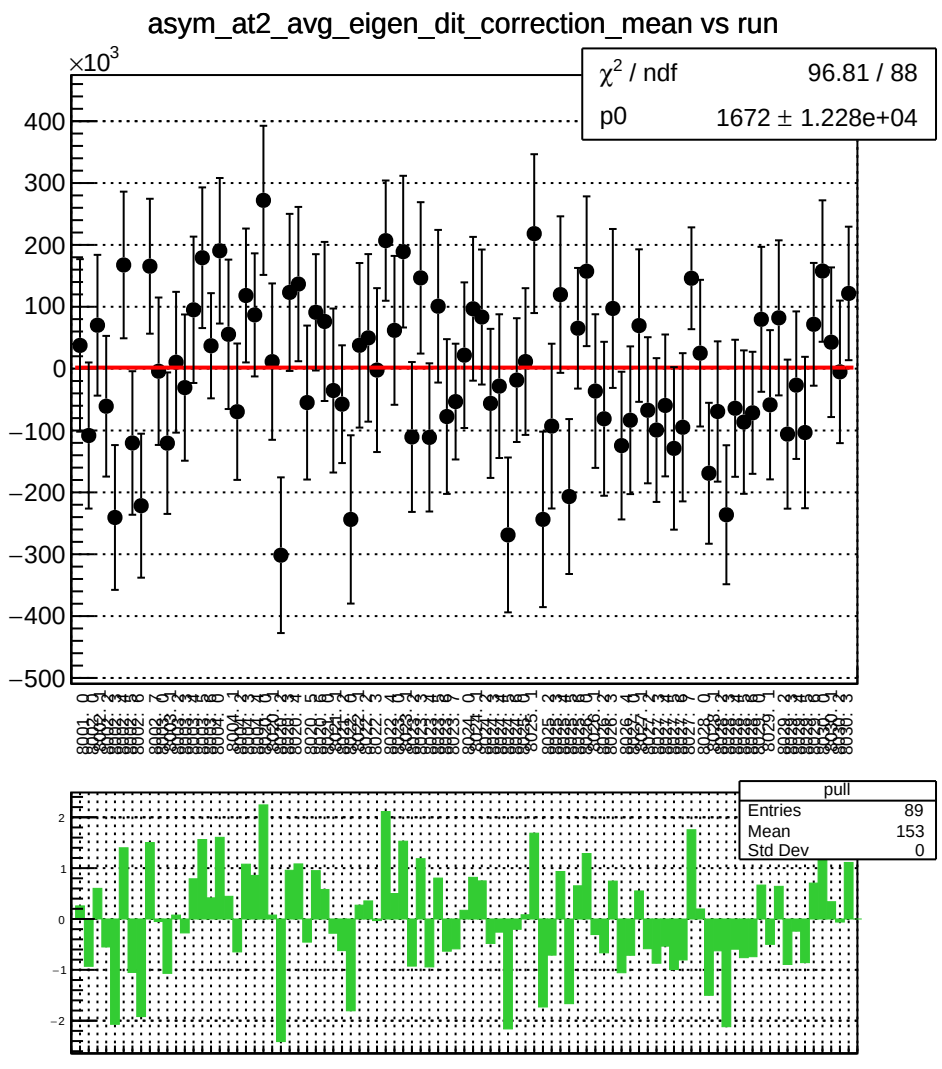

asym_at2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 96.81 / 88
p0 1672 ± 1.228e+04
pull
Entries 89
Mean 153
Std Dev 0

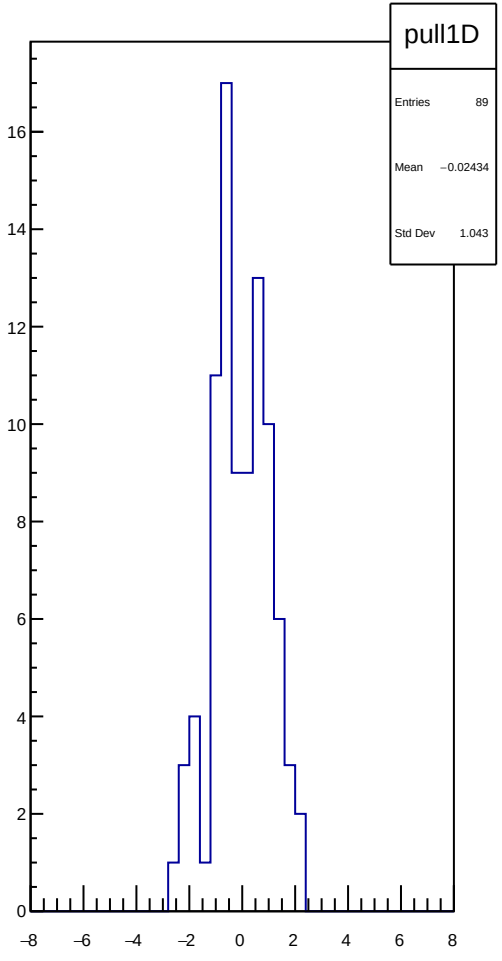

pull1D
Entries 89
Mean −0.02434
Std Dev 1.043

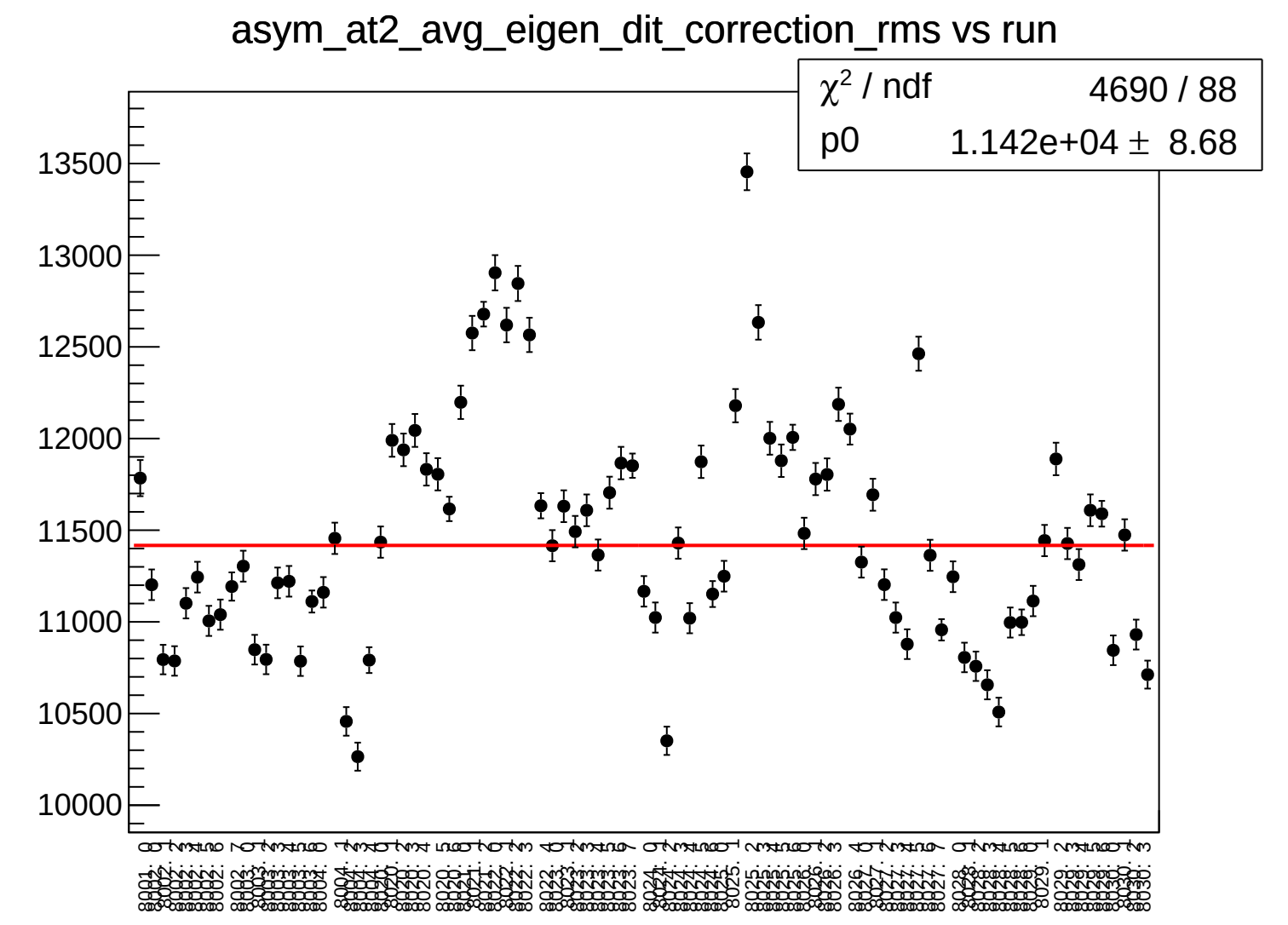

asym_at2_avg_dit_correction_rms vs run
χ² / ndf 4690 / 88
p0 1.142e+04 ± 8.68
13500
13000
12500
12000
11500
11000
10500
10000

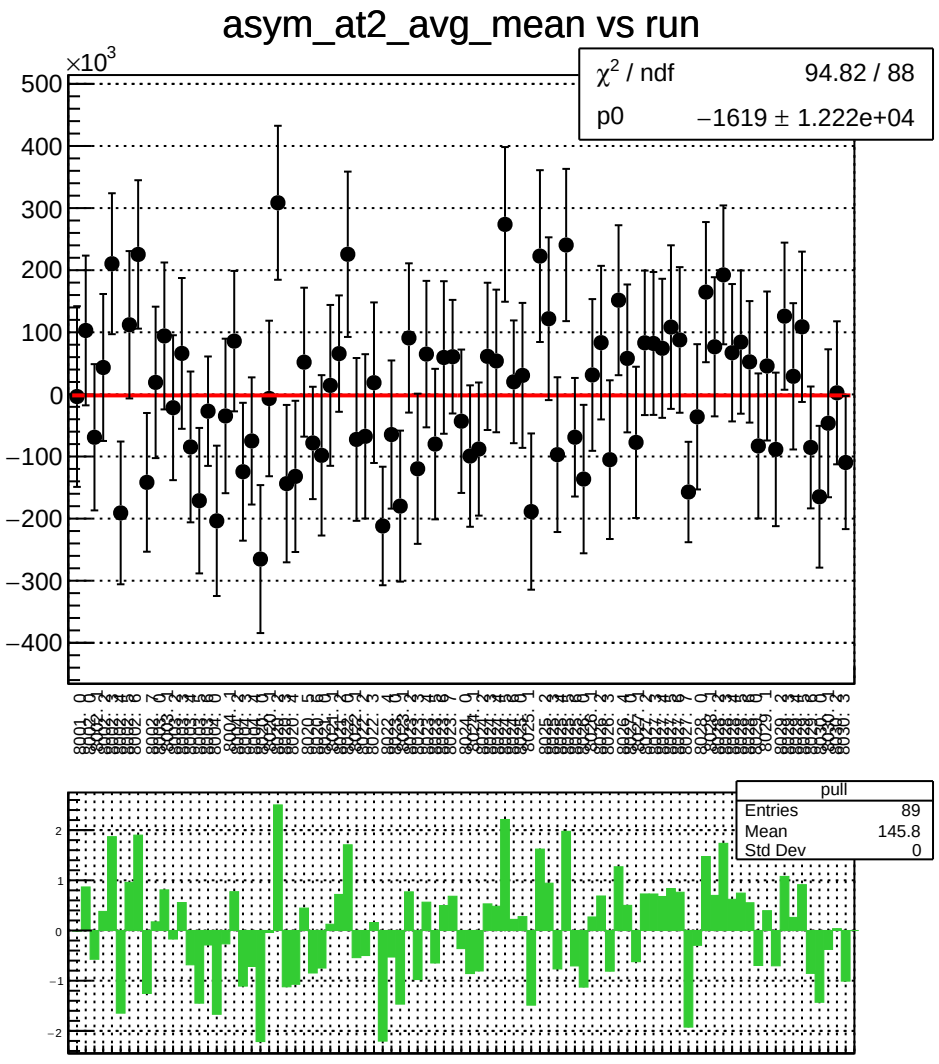

eigen_dit_asym_at2_avg_mean vs run
χ² / ndf 75.81 / 88
p0 −41.25 ± 2011
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 481.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 89
Mean −0.003036
Std Dev 0.9229
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

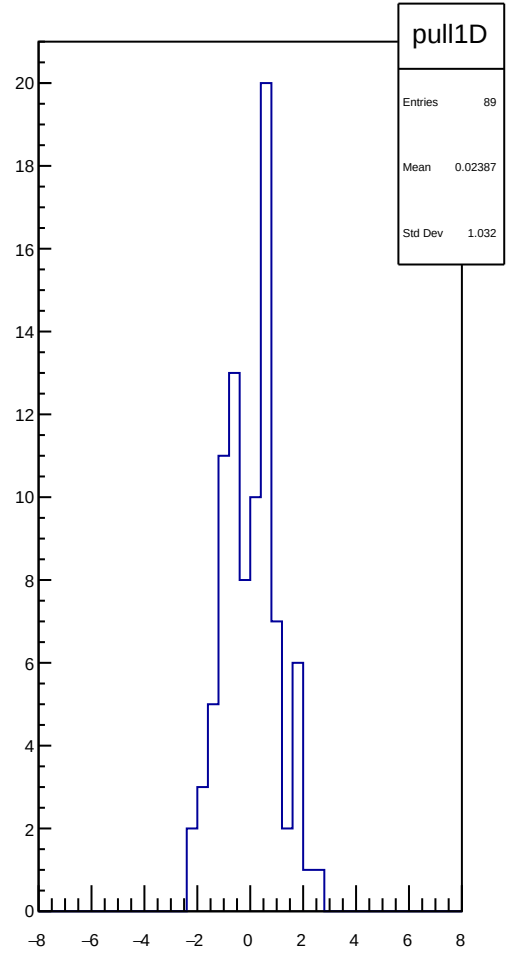

eigen_dit_asym_at2_avg_rms vs run
χ² / ndf 746.5 / 88
p0 1872 ± 1.422
2000
1950
1900
1850
1800
1750

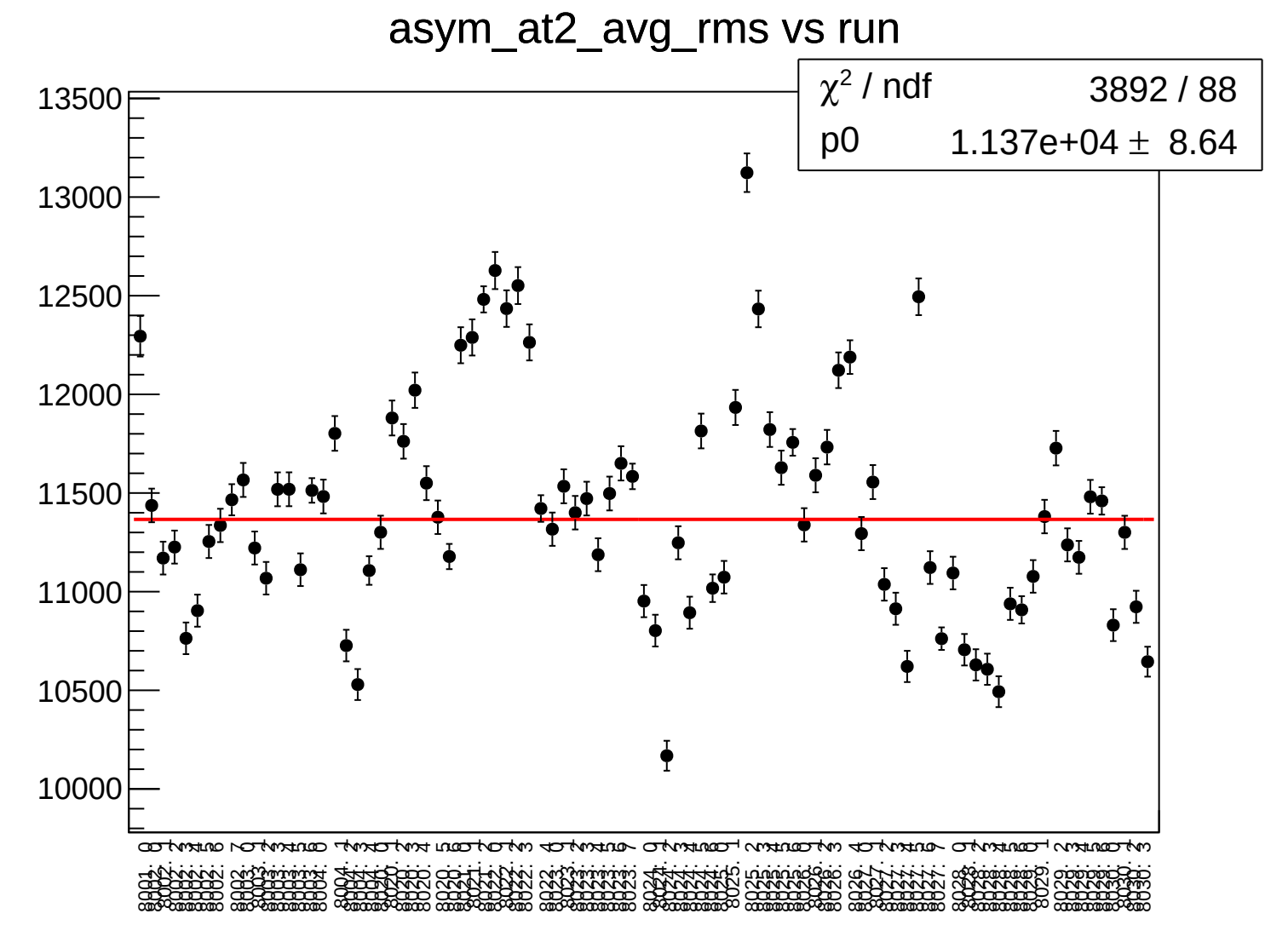

asym_at2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 96.81 / 88
p0 1672 ± 1.228e+04
pull
Entries 89
Mean 153
Std Dev 0

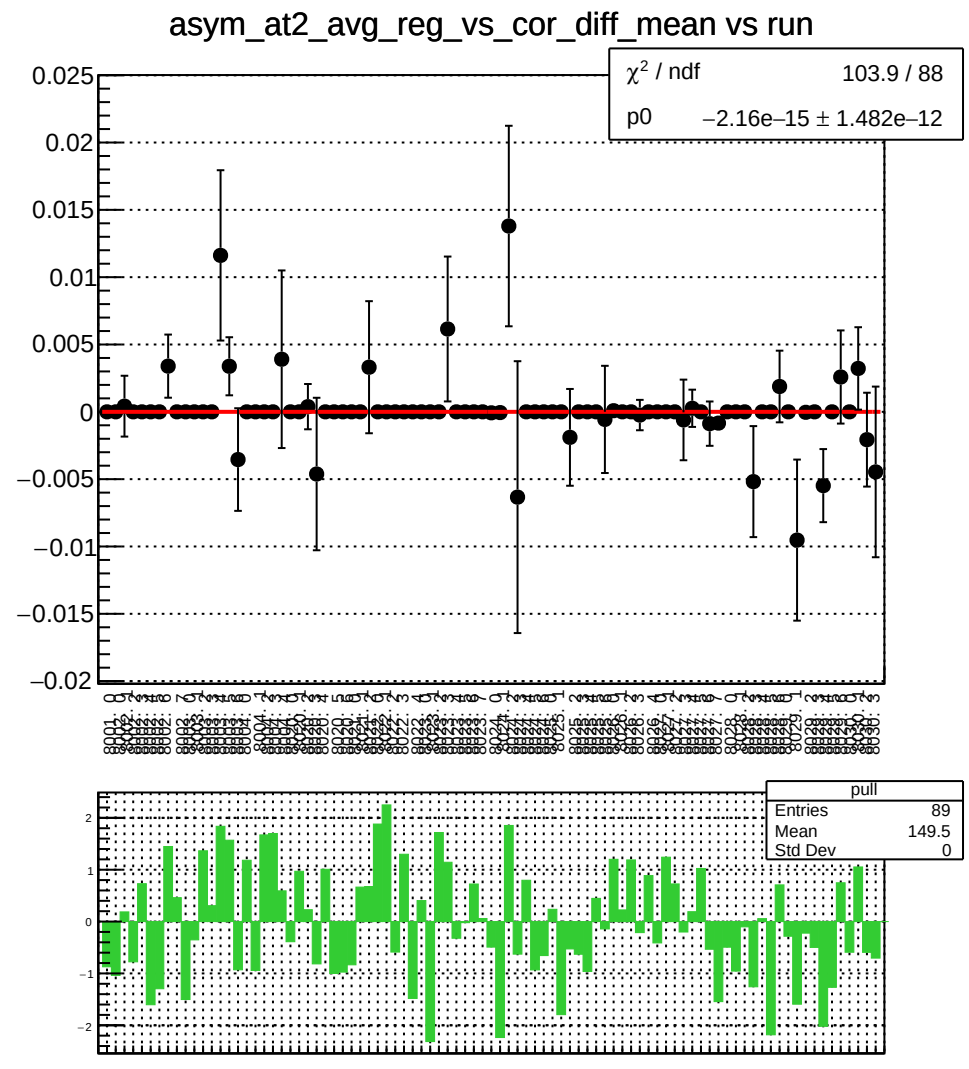

pull1D
Entries 89
Mean −0.02434
Std Dev 1.043

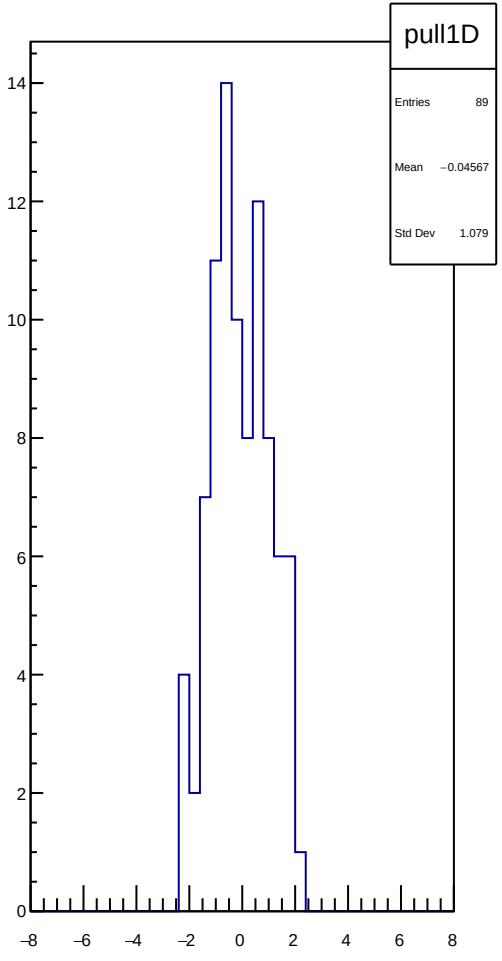

asym_at2_avg_eigen_dit_correction_rms vs run
χ² / ndf 4690 / 88
p0 1.142e+04 ± 8.68
13500
13000
12500
12000
11500
11000
10500
10000

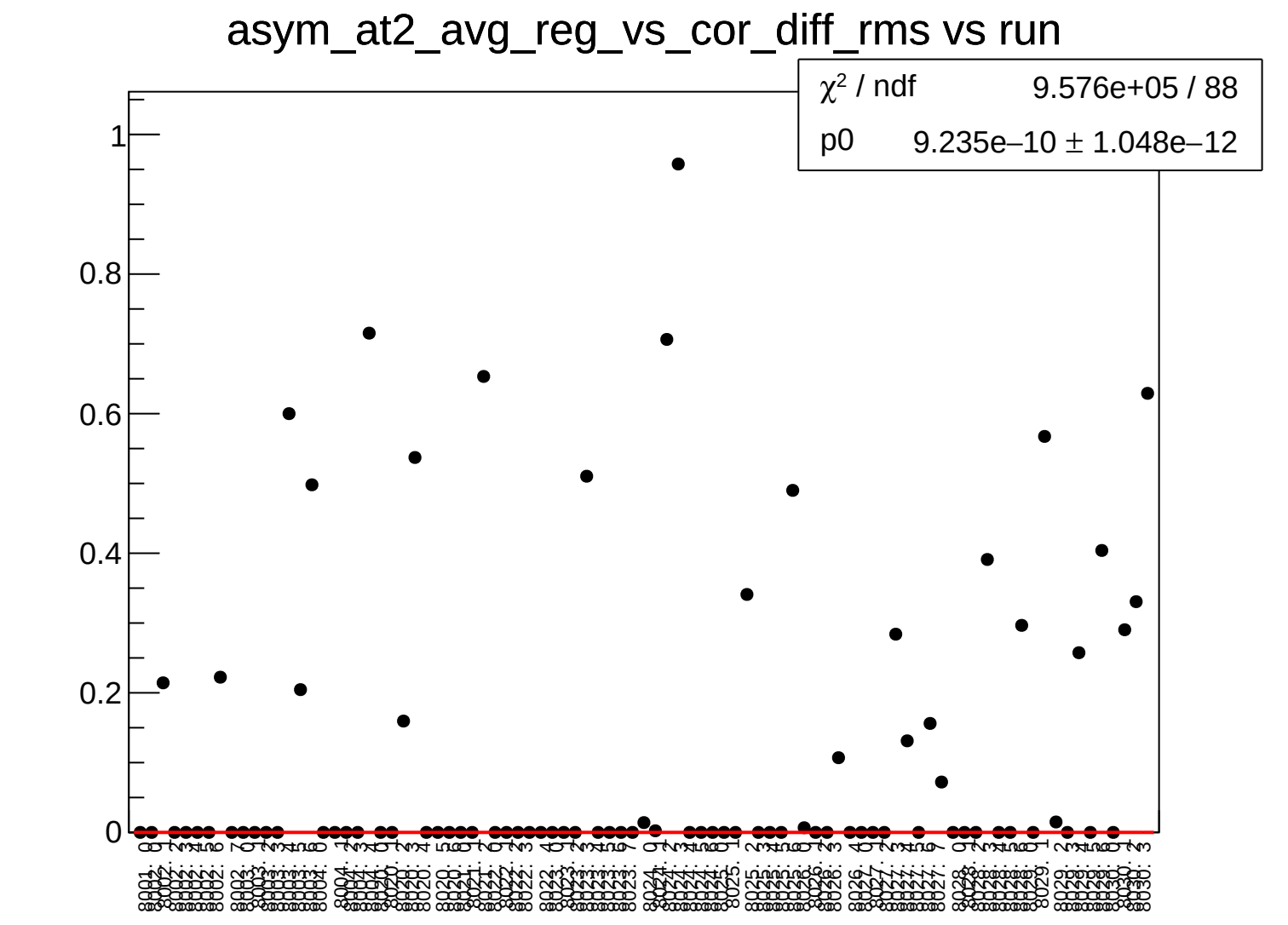

asym_at2_avg_mean vs run
×10^3
χ² / ndf 94.82 / 88
p0 −1619 ± 1.222e+04
pull
Entries 89
Mean 145.8
Std Dev 0

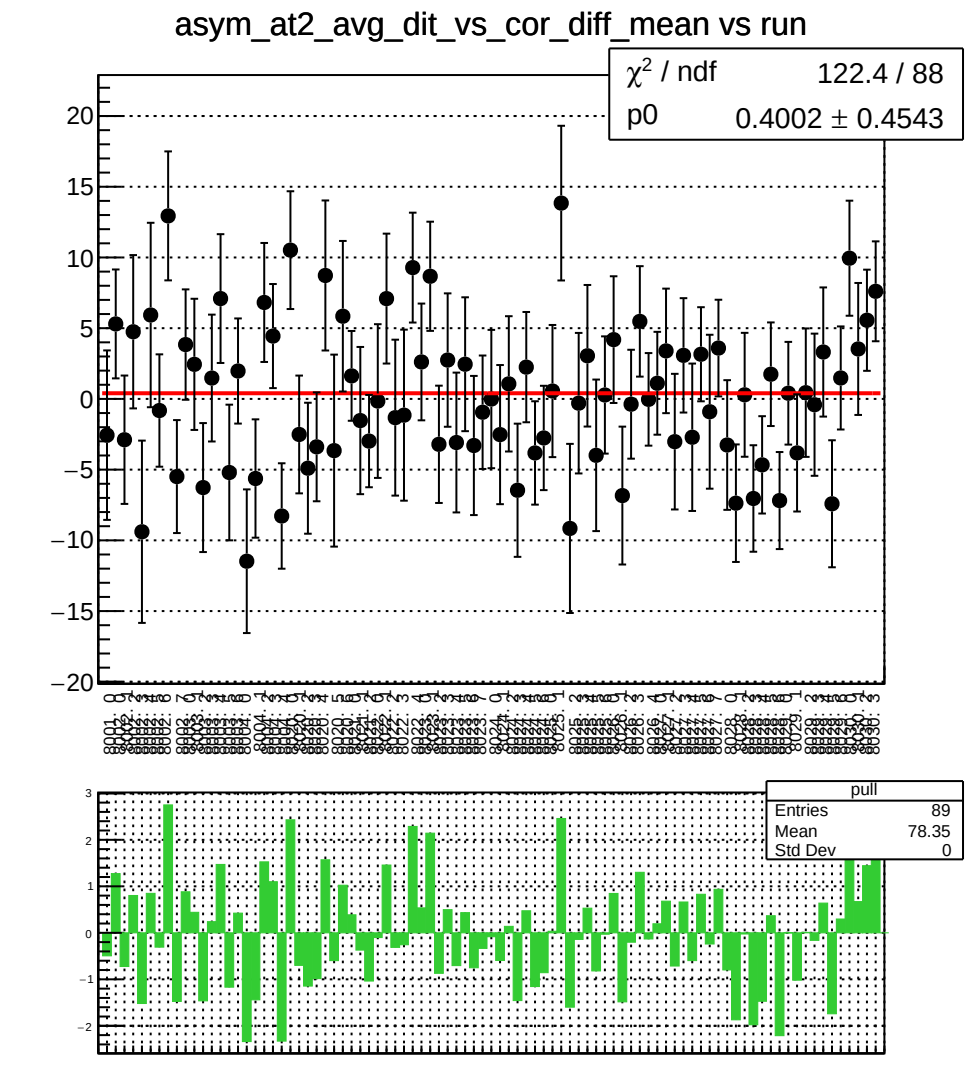

pull1D
Entries 89
Mean 0.02387
Std Dev 1.032

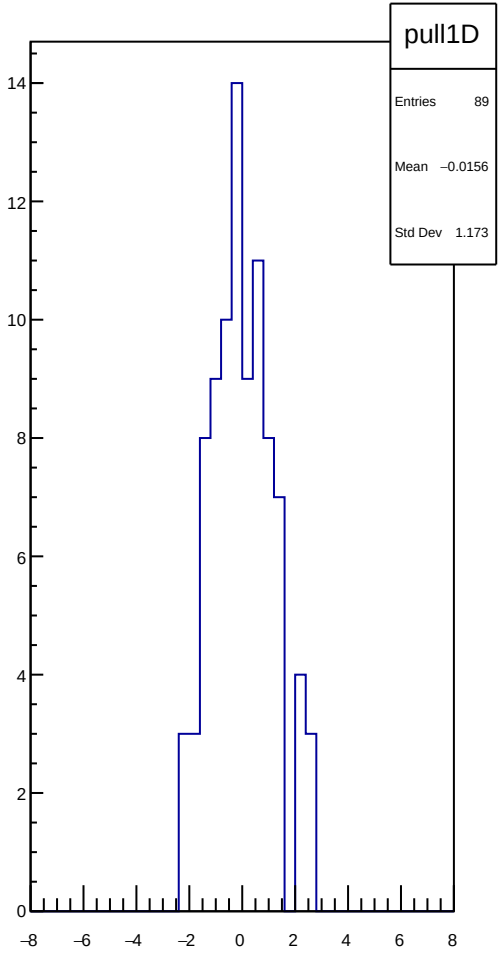

asym_at2_avg_rms vs run
χ² / ndf 3892 / 88
p0 1.137e+04 ± 8.64
13500
13000
12500
12000
11500
11000
10500
10000

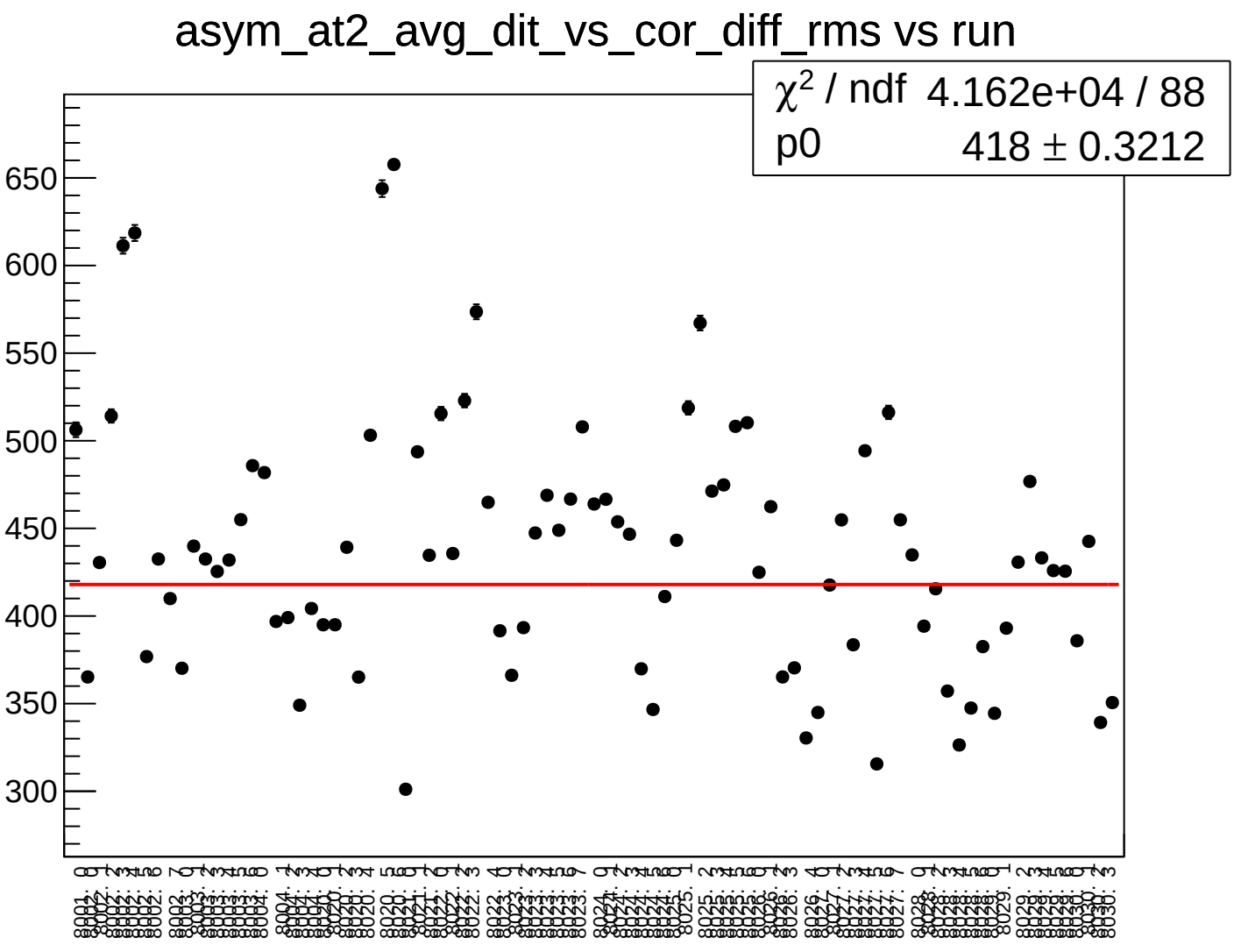

asym_at2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 103.9 / 88
p0 −2.16e−15 ± 1.482e−12
pull
Entries 89
Mean 149.5
Std Dev 0

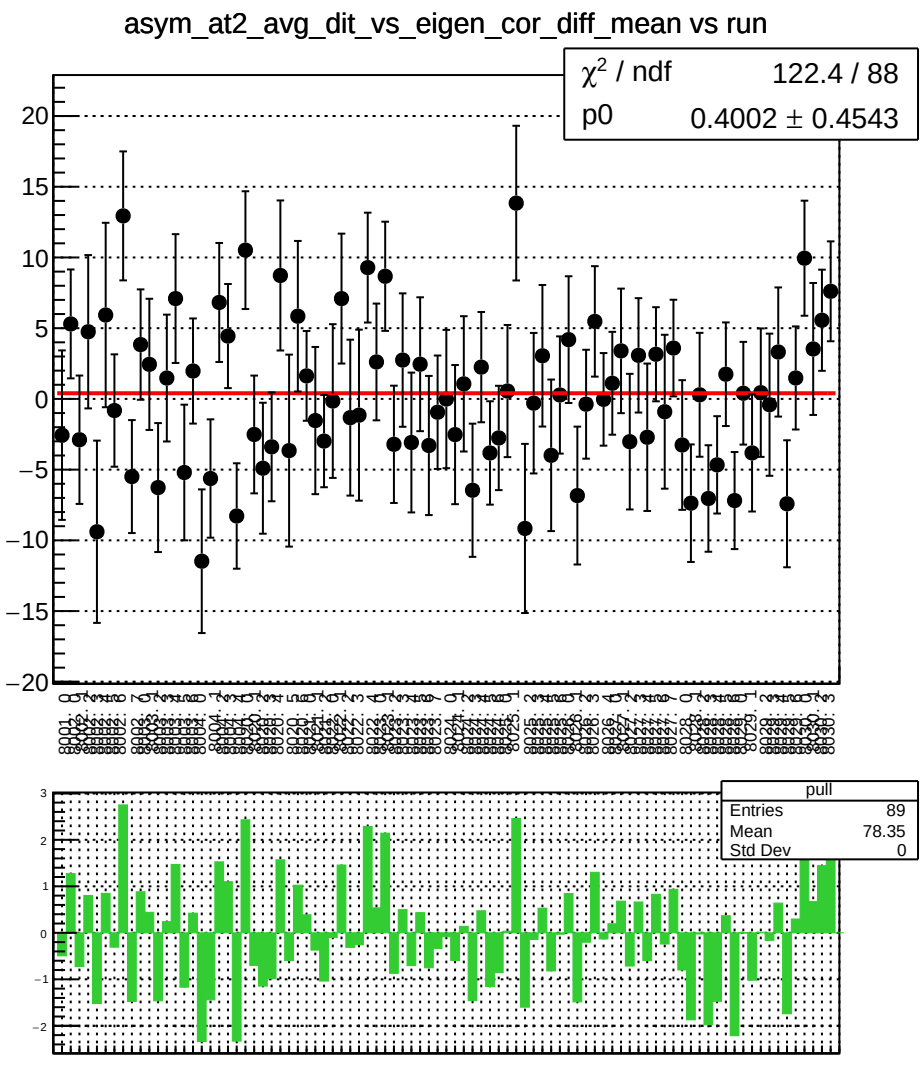

pull1D
Entries 89
Mean −0.04567
Std Dev 1.079

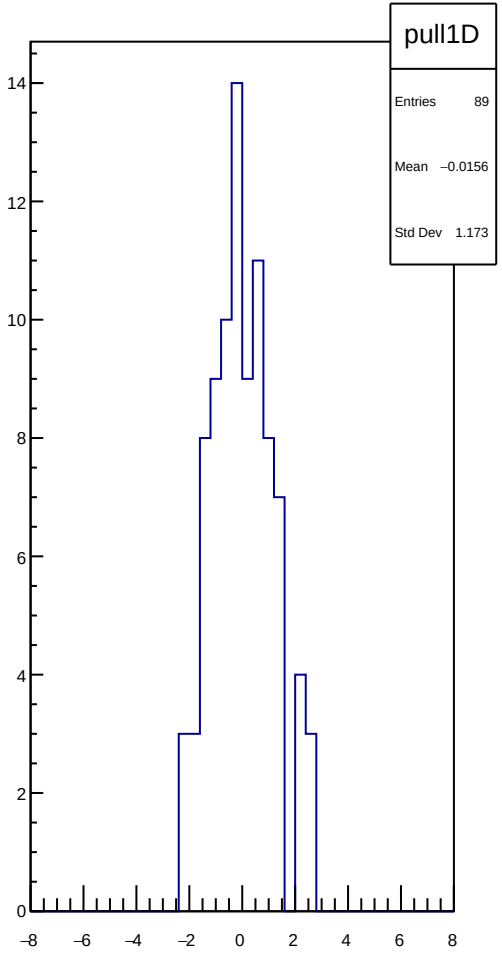

asym_at2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.576e+05 / 88
p0 9.235e−10 ± 1.048e−12
1
0.8
0.6
0.4
0.2
0

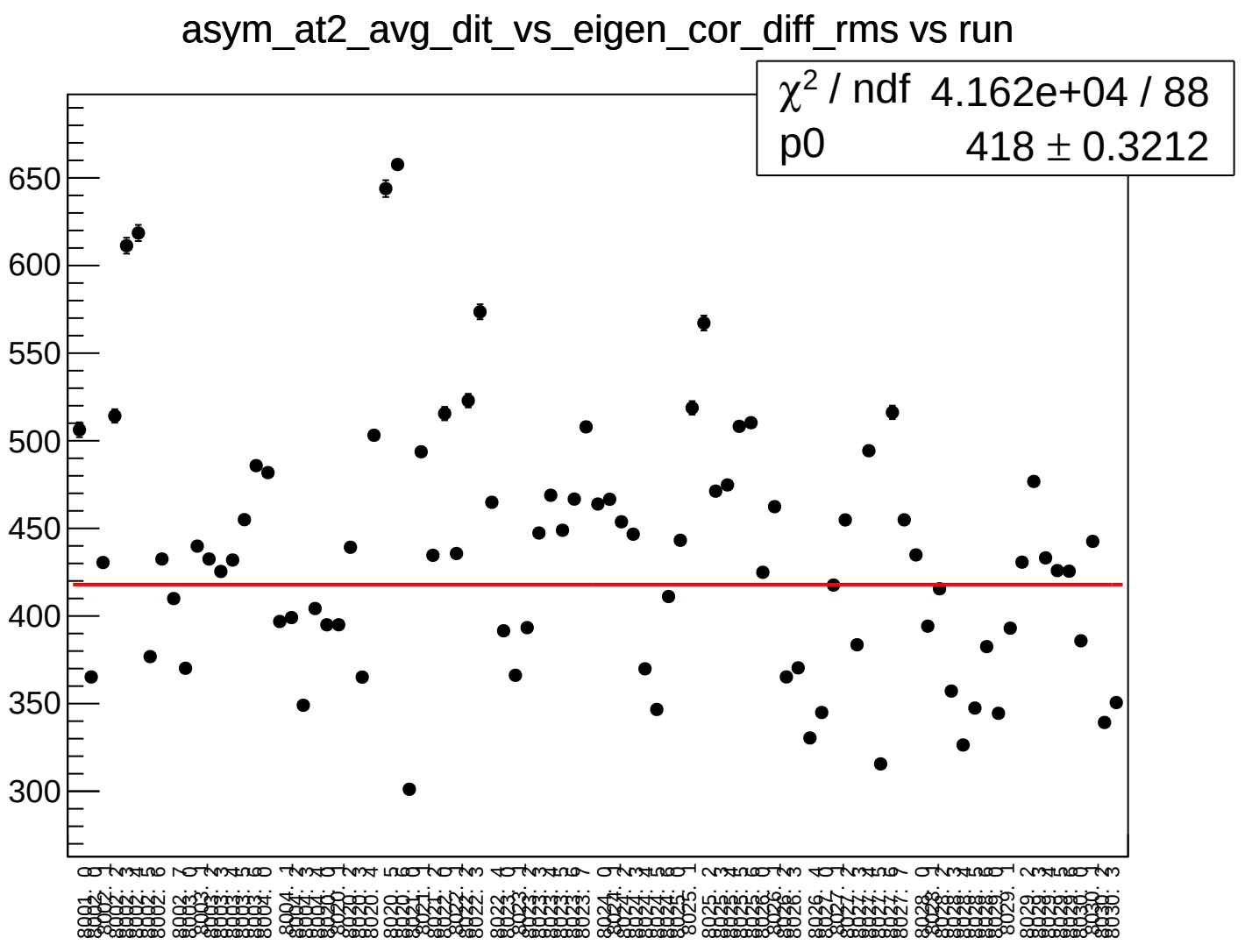

asym_at2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 122.4 / 88
p0 0.4002 ± 0.4543
pull
Entries 89
Mean 78.35
Std Dev 0

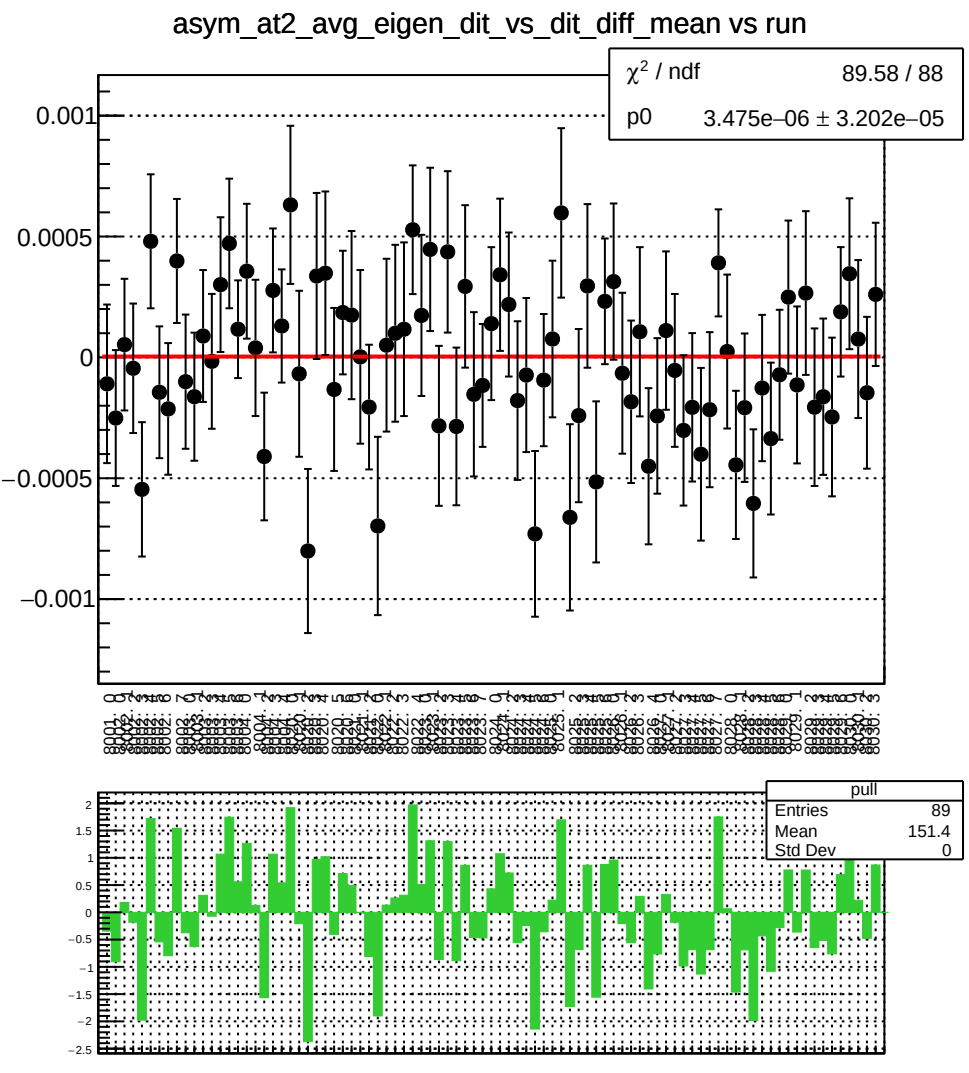

pull1D
Entries 89
Mean −0.0156
Std Dev 1.173

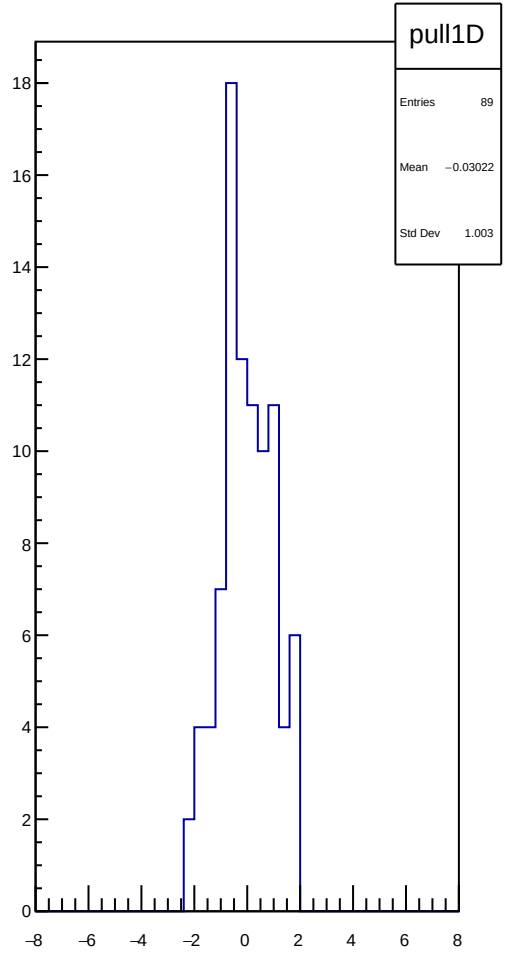

asym_at2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.162e+04 / 88
p0 418 ± 0.3212
650
600
550
500
450
400
350
300

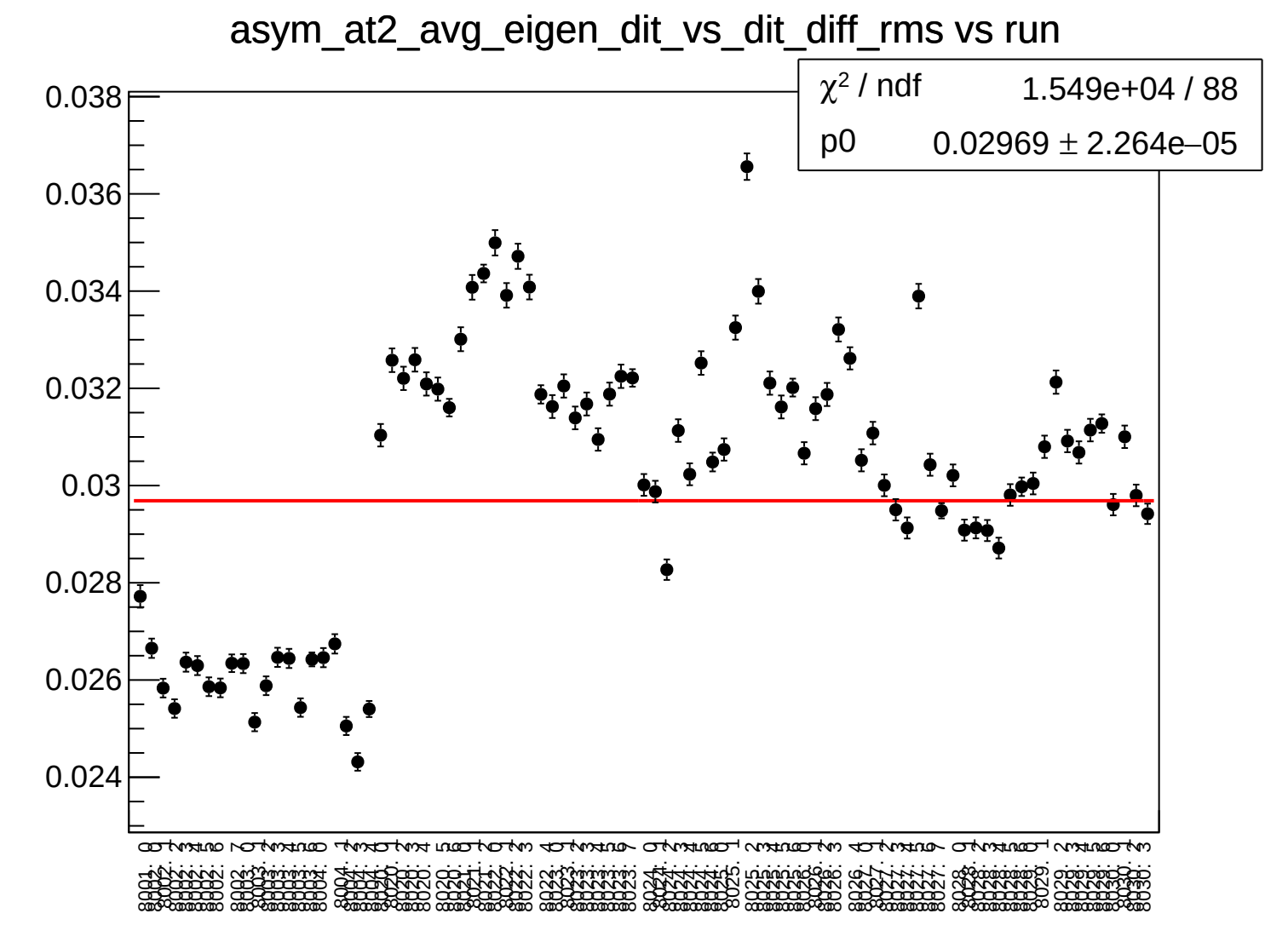

asym_at2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 122.4 / 88
p0 0.4002 ± 0.4543
pull
Entries 89
Mean 78.35
Std Dev 0

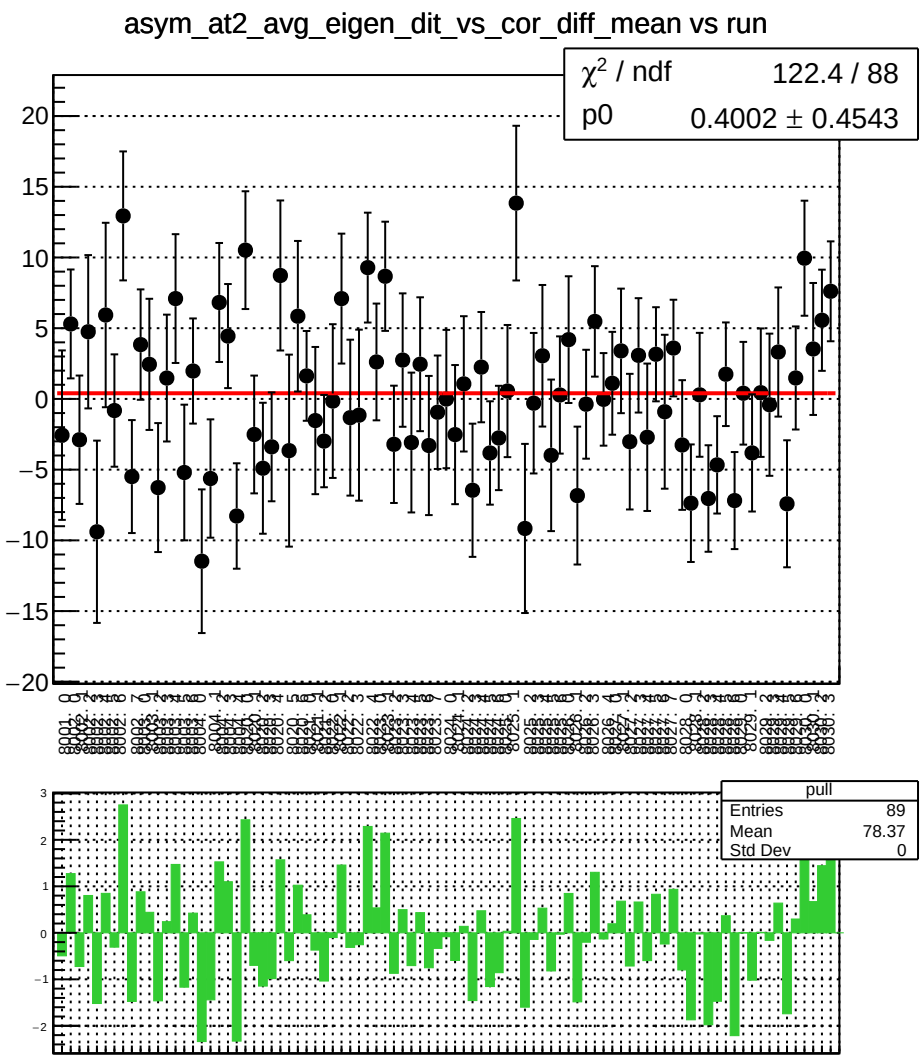

pull1D
Entries 89
Mean −0.0156
Std Dev 1.173

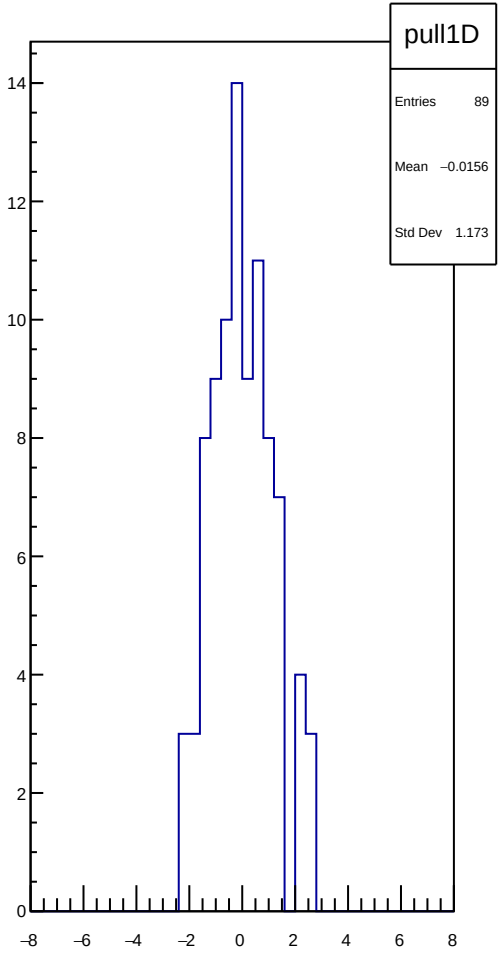

asym_at2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.162e+04 / 88
p0 418 ± 0.3212
650
600
550
500
450
400
350
300

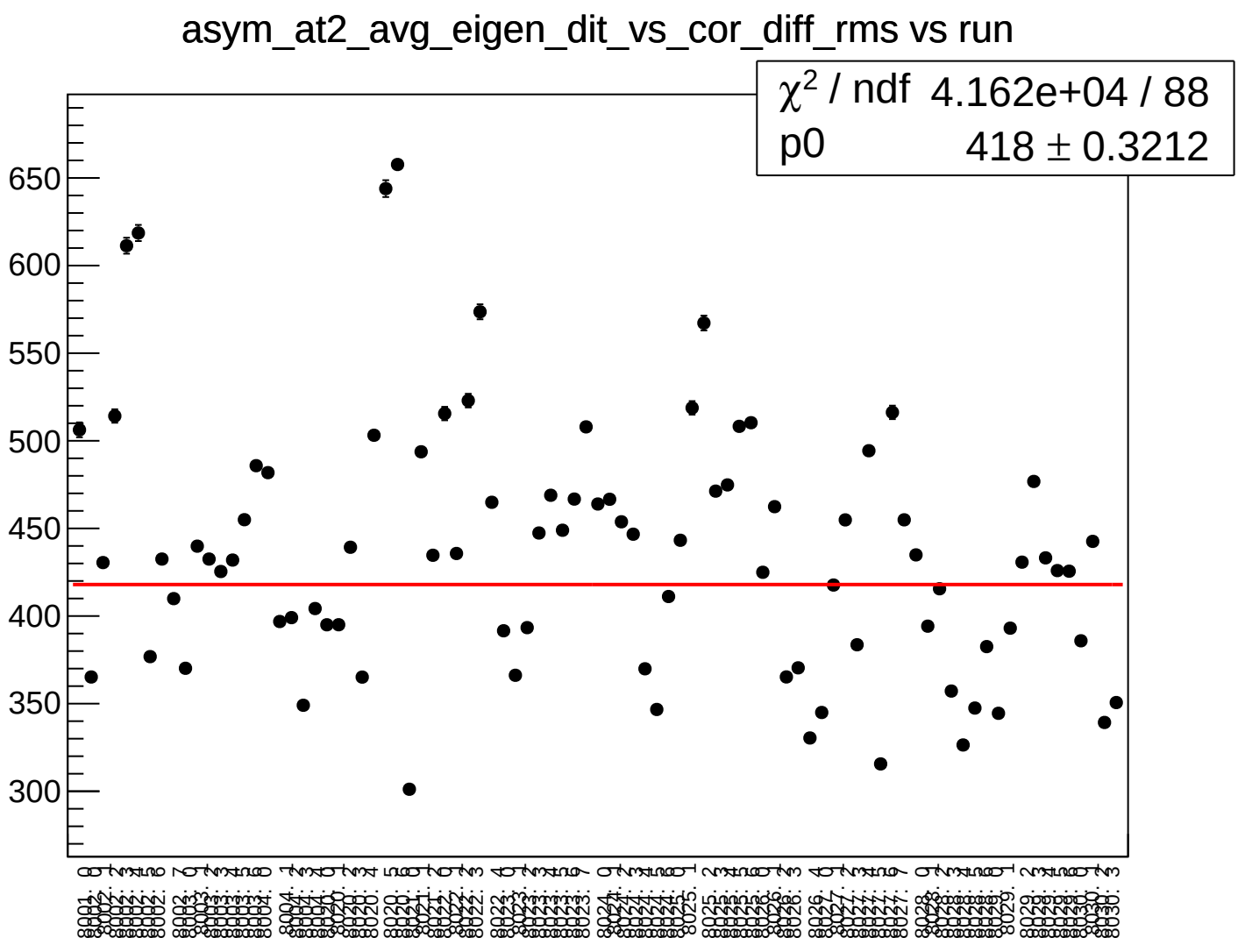

asym_at2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 89.58 / 88
p0 3.475e−06 ± 3.202e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 89
Mean 151.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

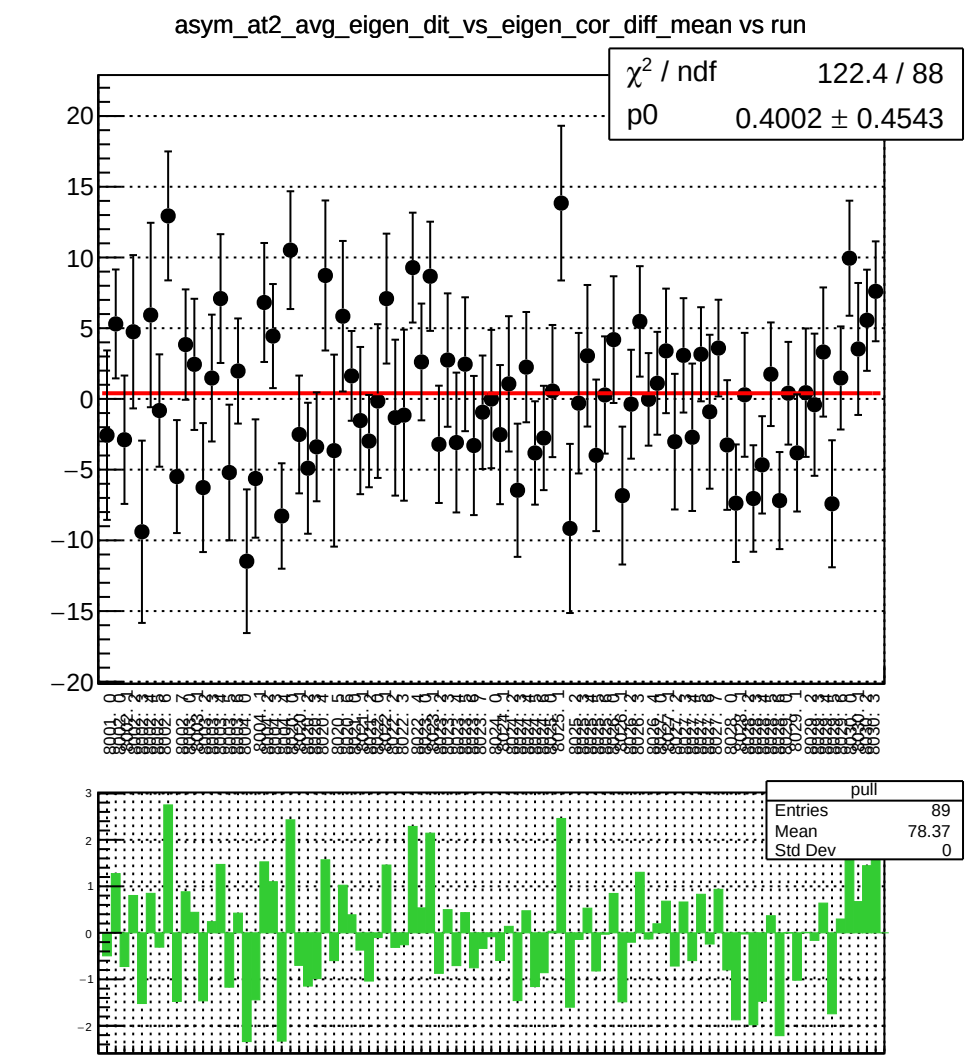

pull1D
Entries 89
Mean −0.03022
Std Dev 1.003
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

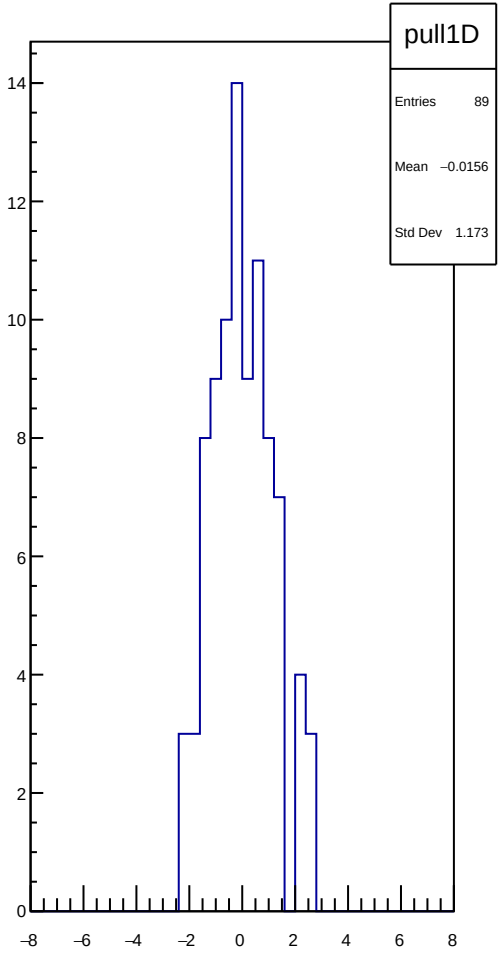

asym_at2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.549e+04 / 88
p0 0.02969 ± 2.264e−05
0.038
0.036
0.034
0.032
0.03
0.028
0.026
0.024

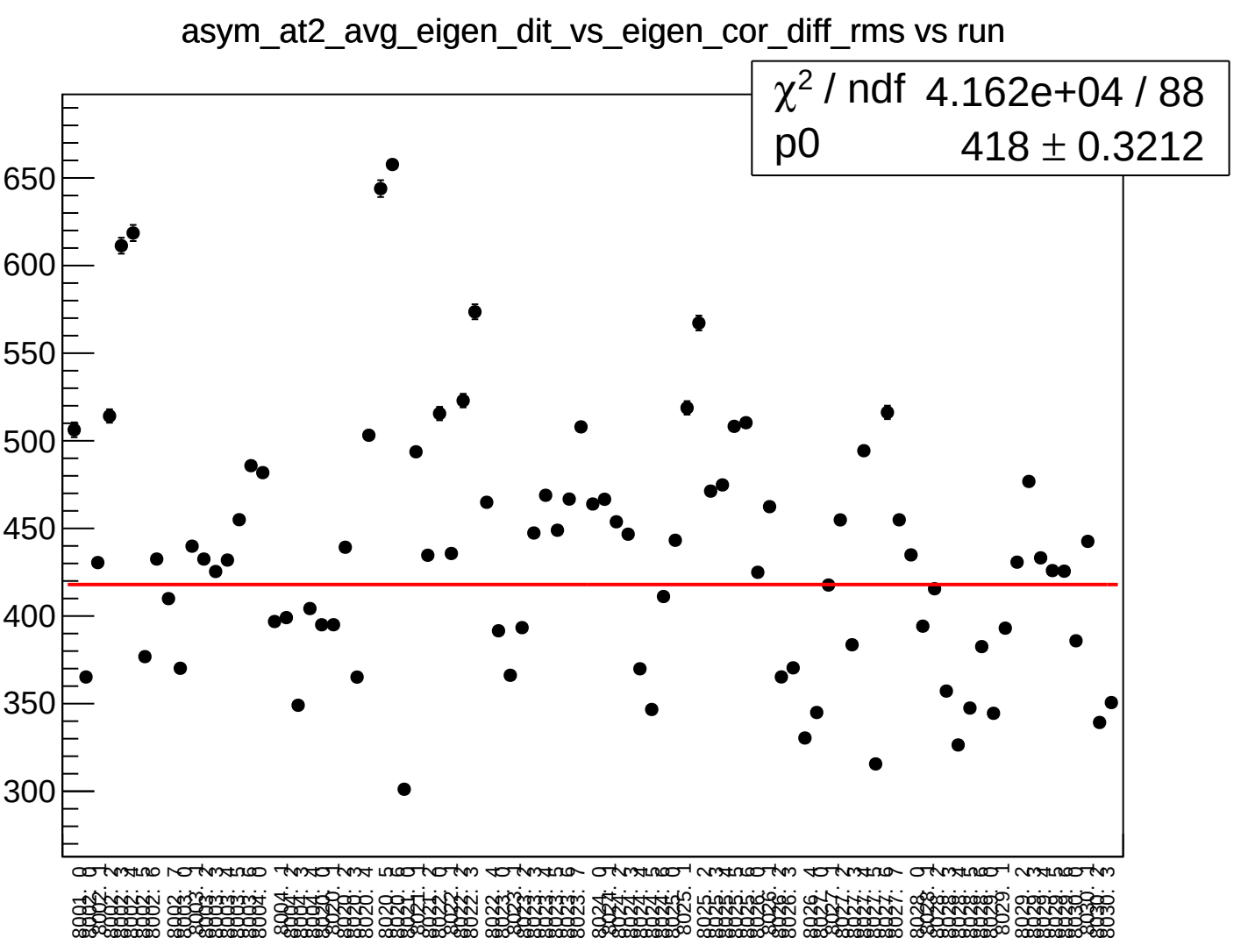

asym_at2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 122.4 / 88
p0 0.4002 ± 0.4543
pull
Entries 89
Mean 78.37
Std Dev 0

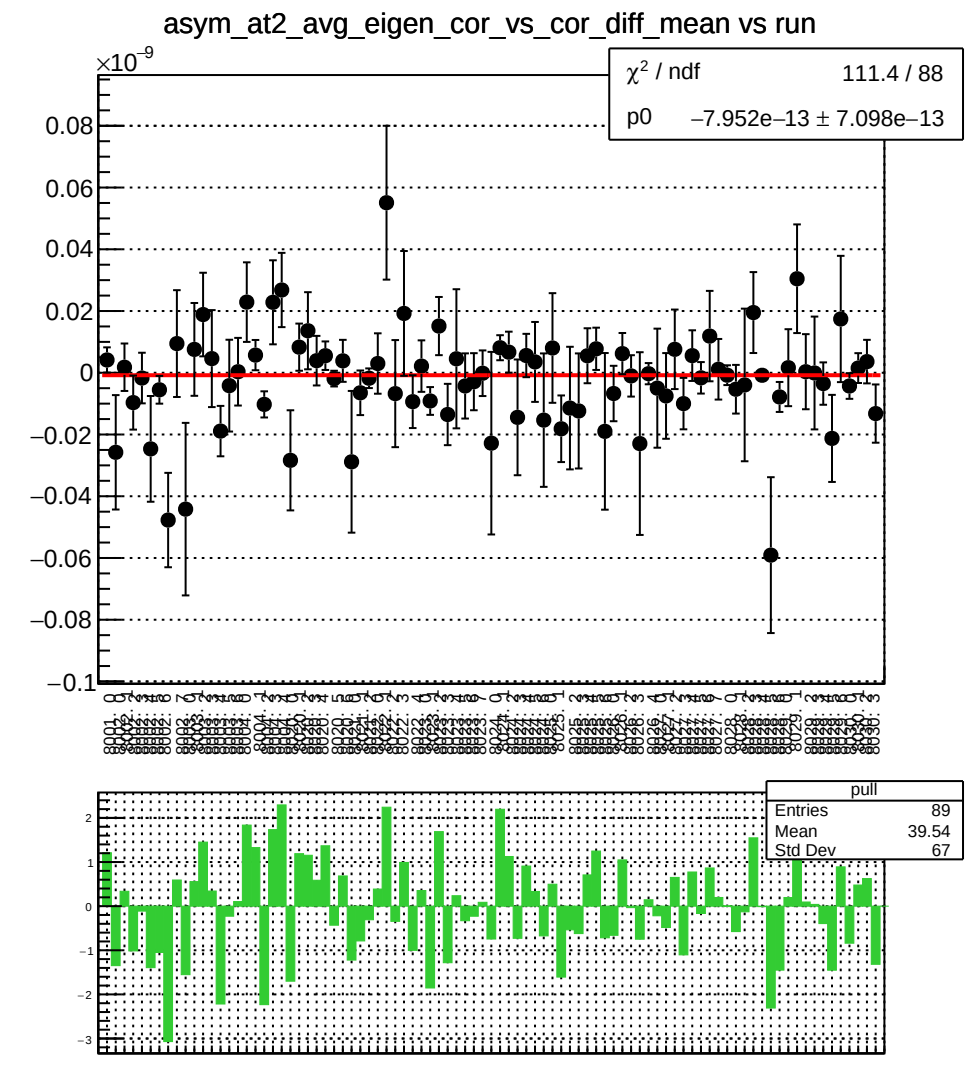

pull1D
Entries 89
Mean −0.0156
Std Dev 1.173

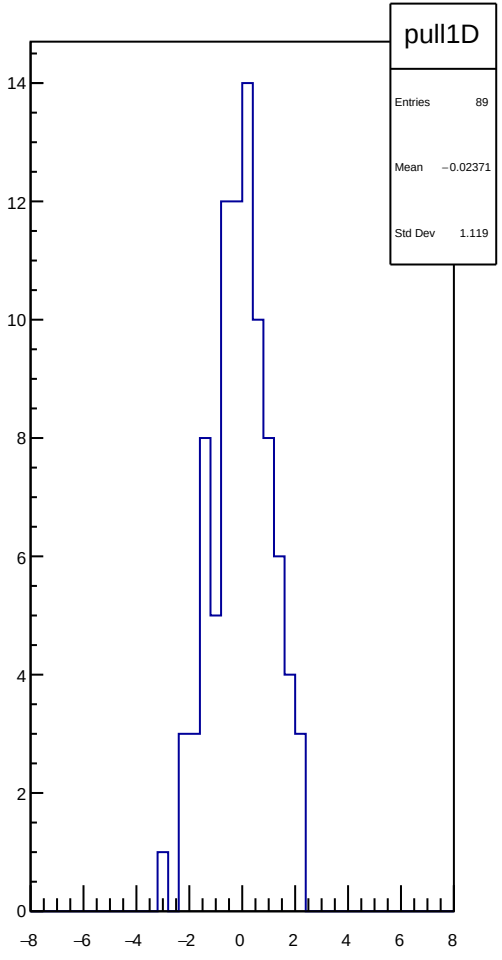

asym_at2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.162e+04 / 88
p0 418 ± 0.3212
650
600
550
500
450
400
350
300

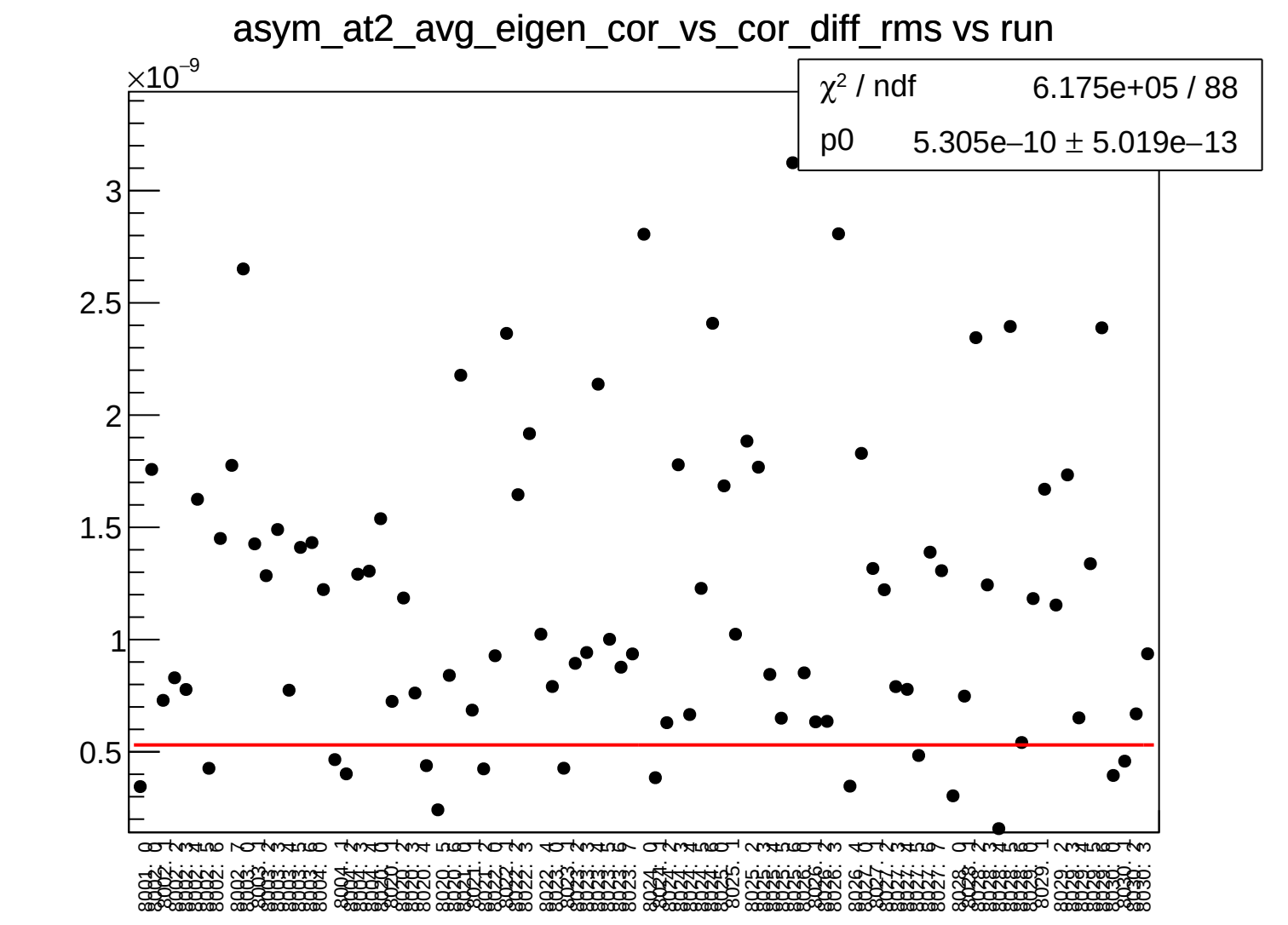

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 122.4 / 88
p0 0.4002 ± 0.4543
pull
Entries 89
Mean 78.37
Std Dev 0

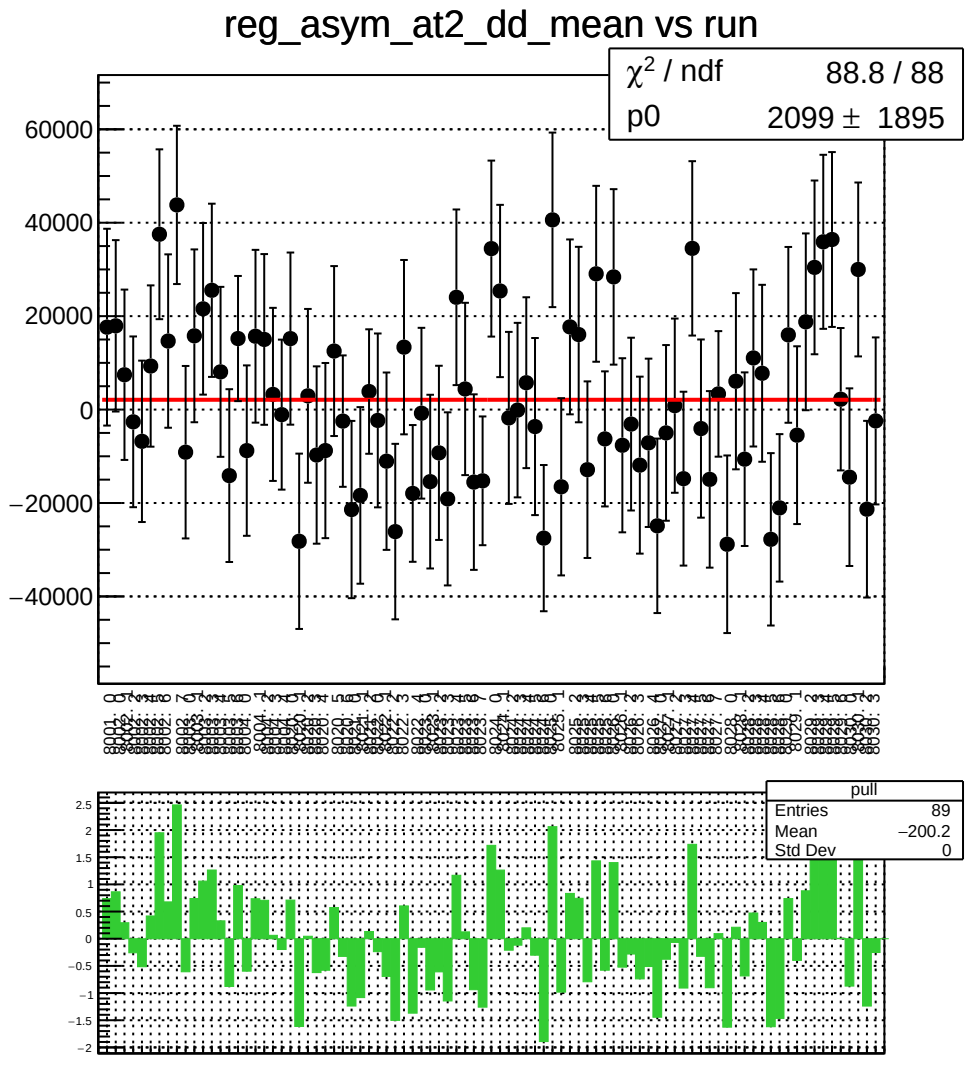

pull1D
Entries 89
Mean −0.0156
Std Dev 1.173

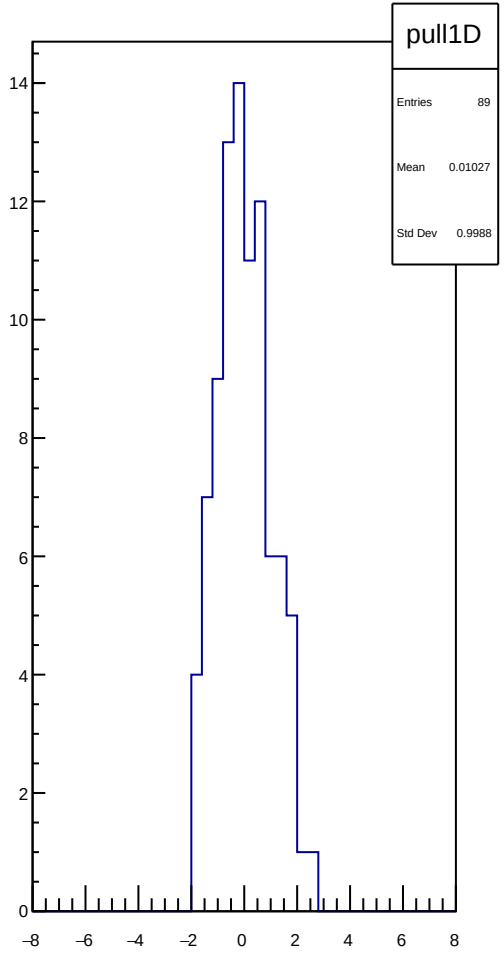

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.162e+04 / 88
p0 418 ± 0.3212
650
600
550
500
450
400
350
300

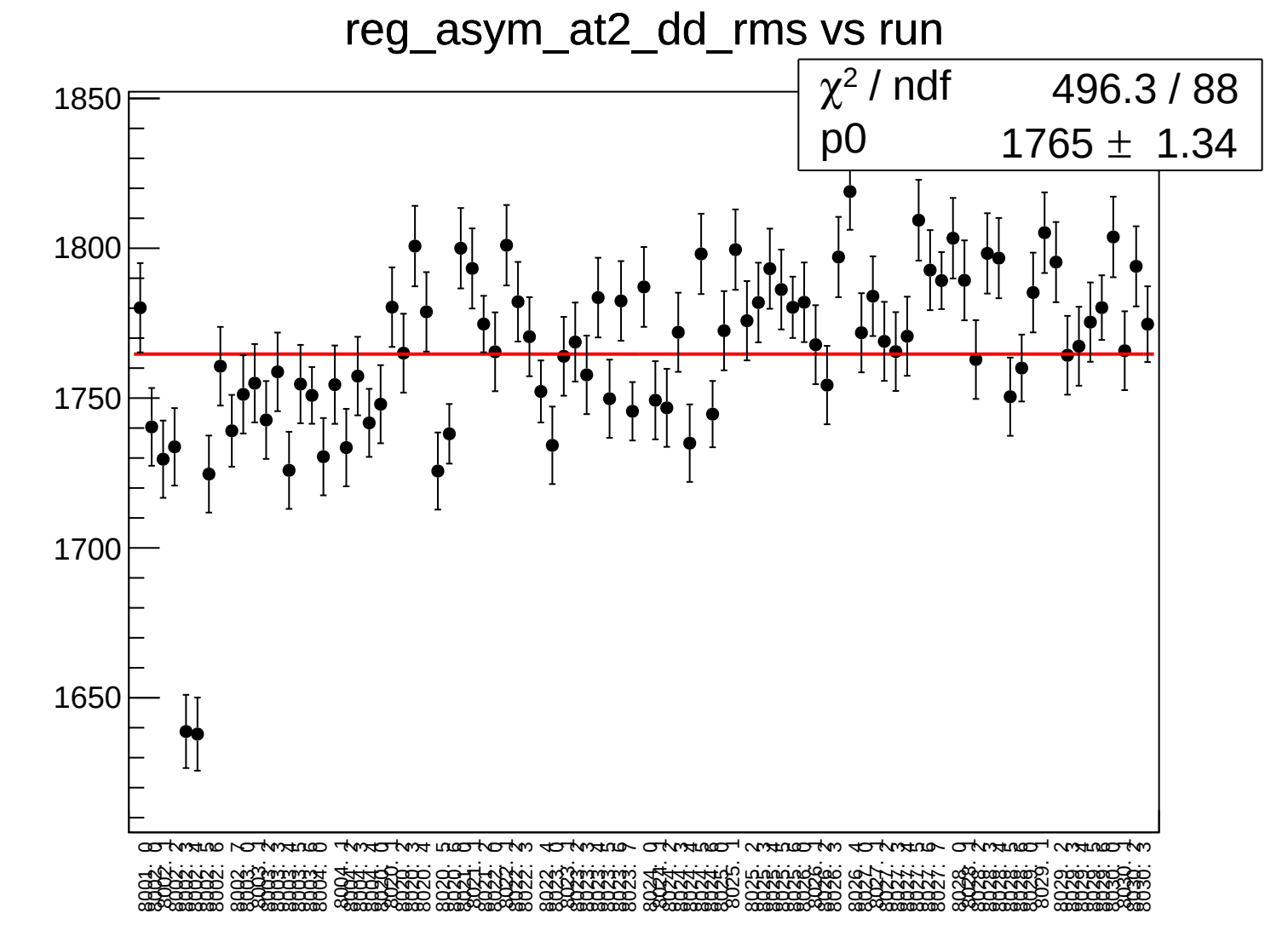

asym_at2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 111.4 / 88
p0 −7.952e−13 ± 7.098e−13
pull
Entries 89
Mean 39.54
Std Dev 67

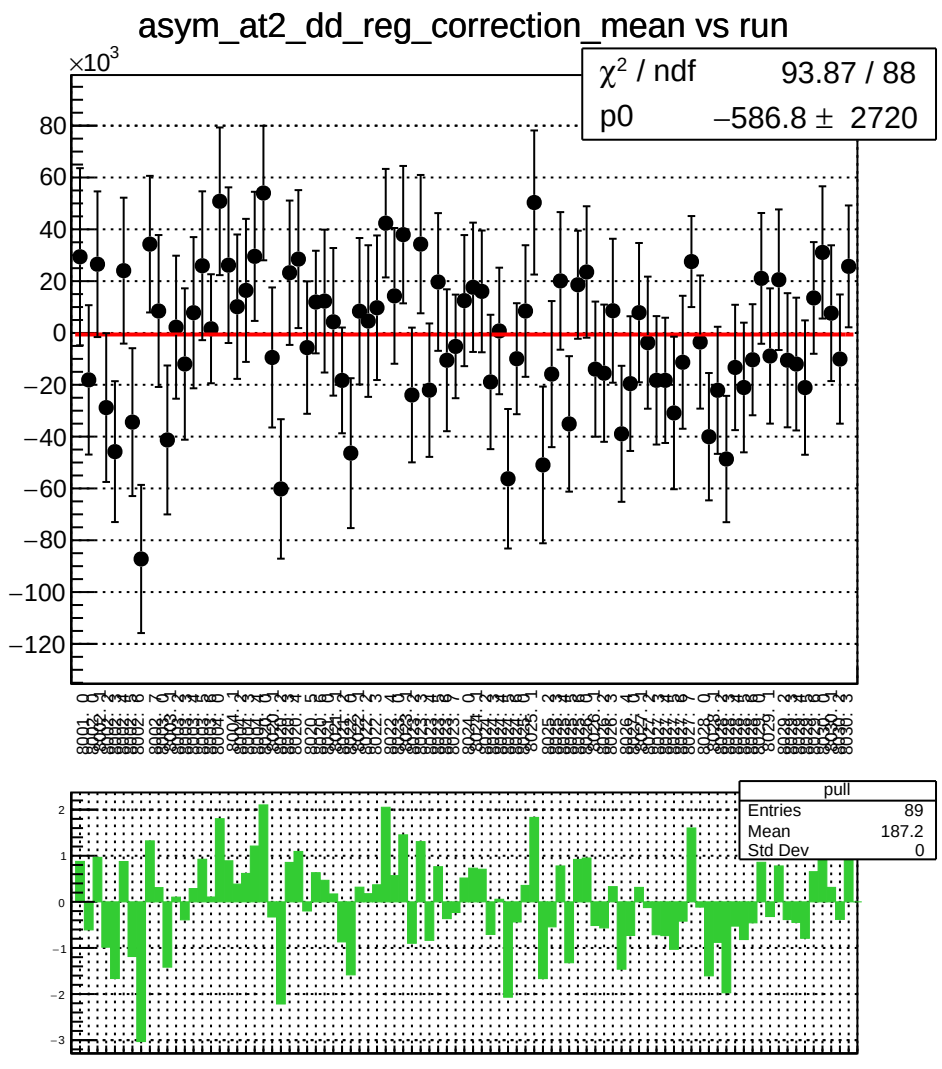

pull1D
Entries 89
Mean −0.02371
Std Dev 1.119

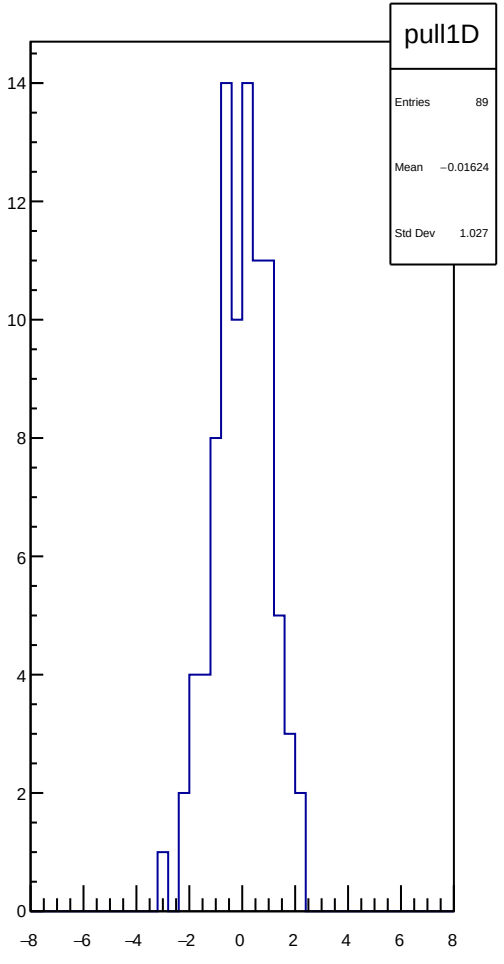

asym_at2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.175e+05 / 88
p0 5.305e−10 ± 5.019e−13
3
2.5
2
1.5
1
0.5

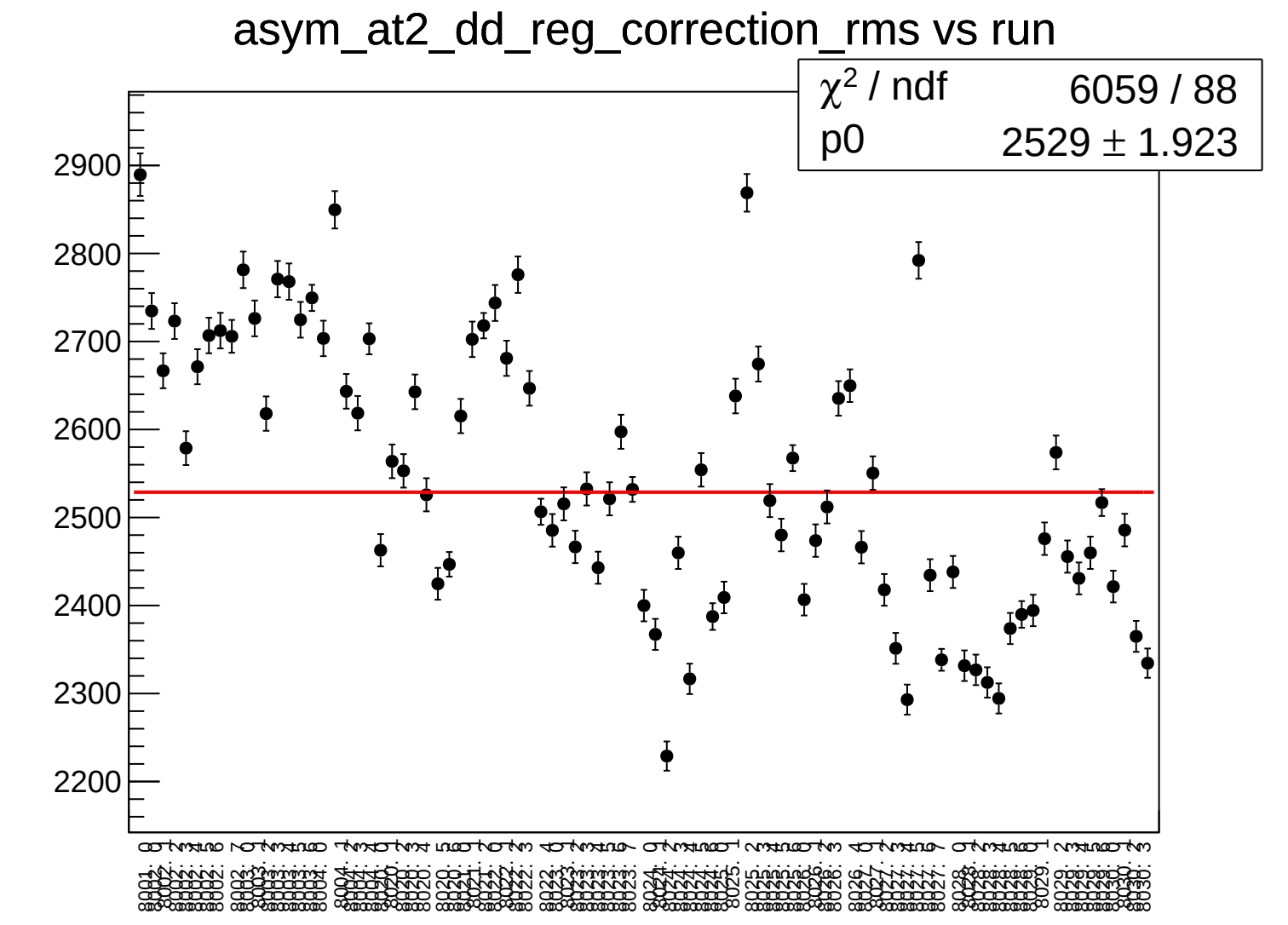

reg_asym_at2_dd_mean vs run
χ² / ndf 88.8 / 88
p0 2099 ± 1895
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −200.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

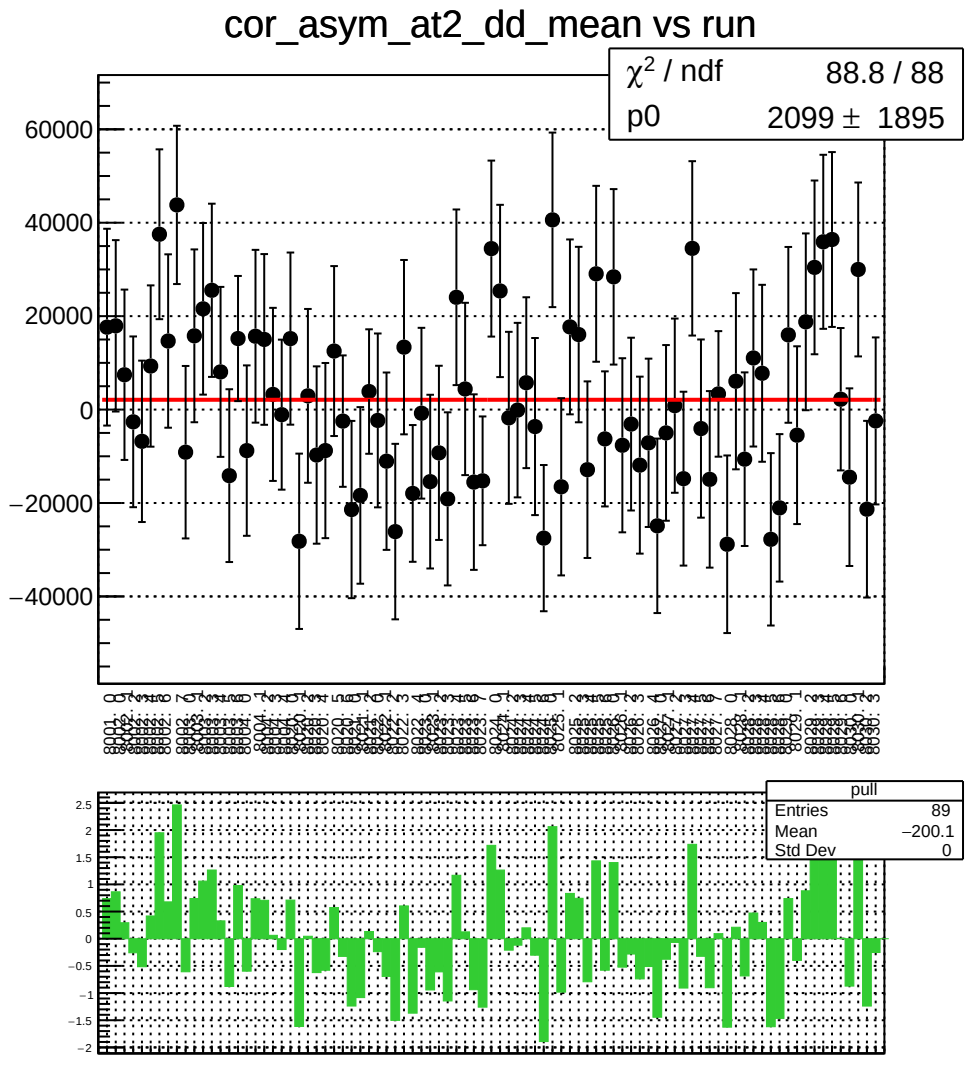

pull1D
Entries 89
Mean 0.01027
Std Dev 0.9988
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

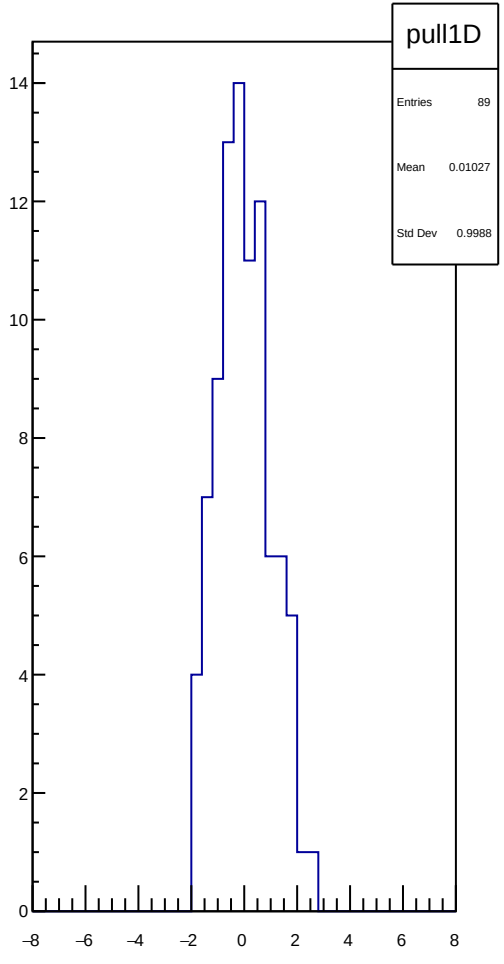

reg_asym_at2_dd_rms vs run
χ² / ndf 496.3 / 88
p0 1765 ± 1.34
1850
1800
1750
1700
1650

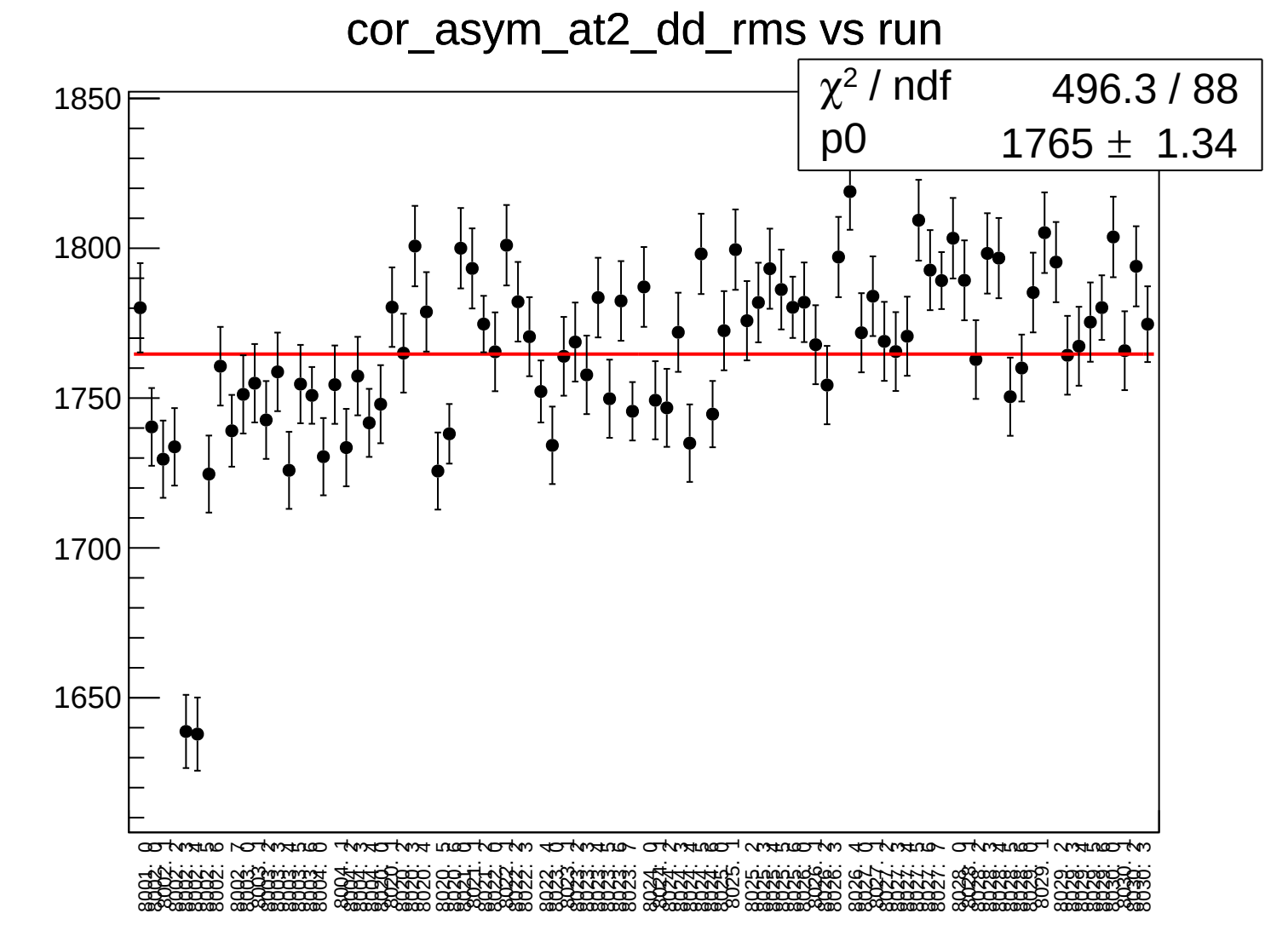

asym_at2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 93.87 / 88
p0 −586.8 ± 2720
pull
Entries 89
Mean 187.2
Std Dev 0

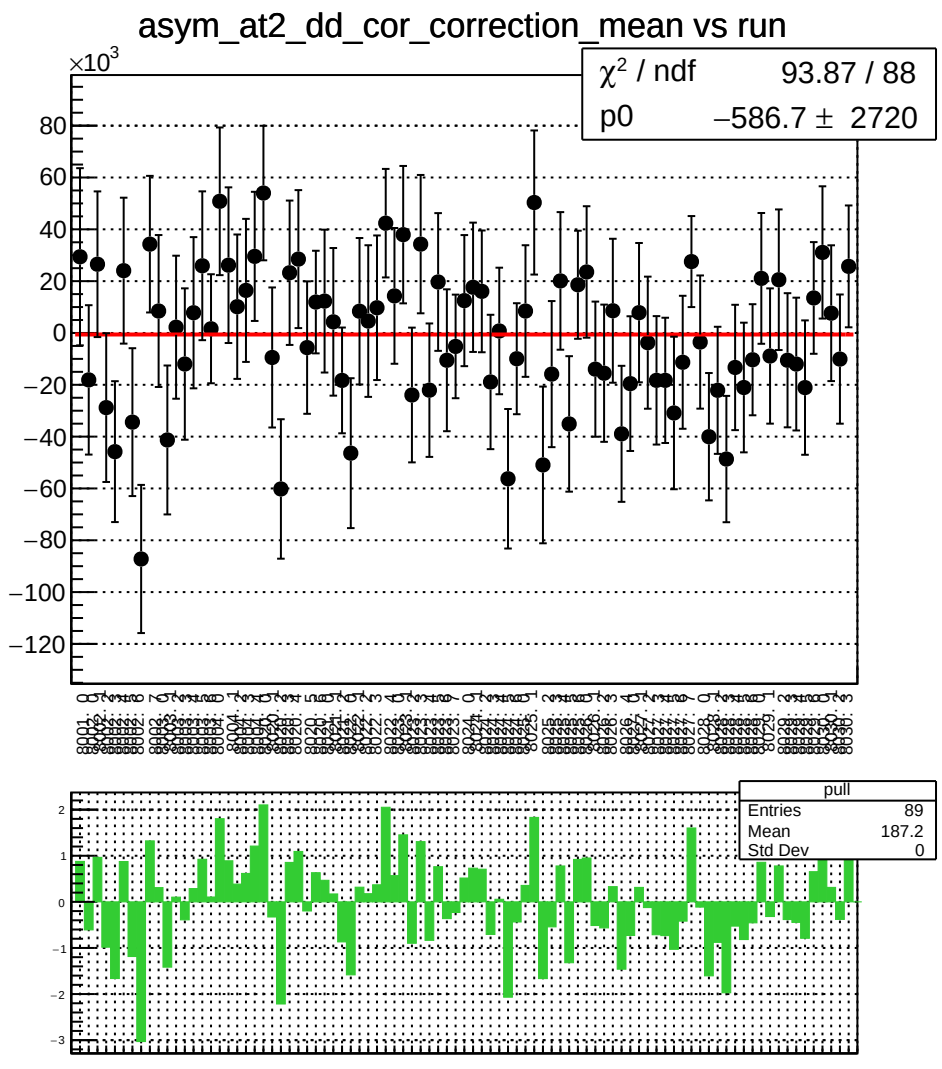

pull1D
Entries 89
Mean −0.01624
Std Dev 1.027

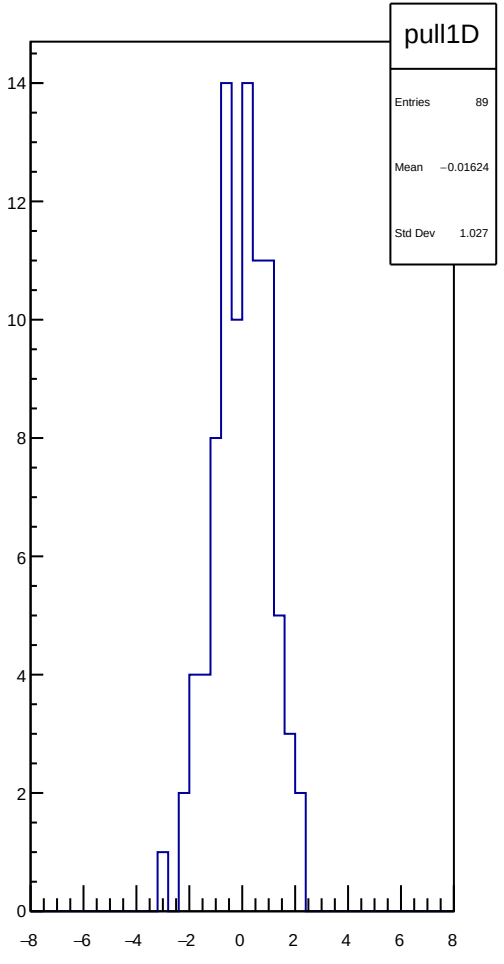

asym_at2_dd_reg_correction_rms vs run
χ² / ndf 6059 / 88
p0 2529 ± 1.923
2900
2800
2700
2600
2500
2400
2300
2200

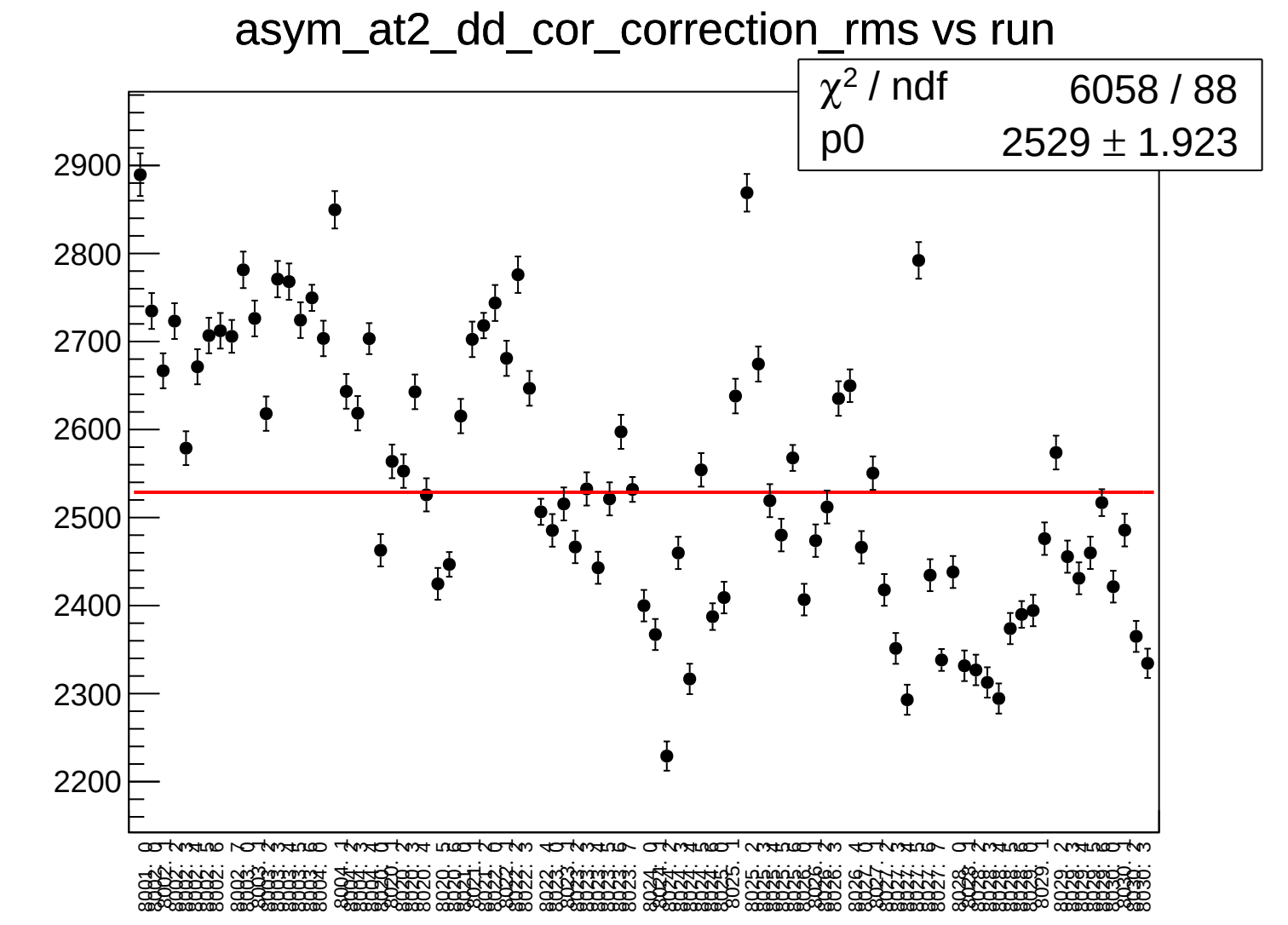

cor_asym_at2_dd_mean vs run
χ² / ndf 88.8 / 88
p0 2099 ± 1895
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −200.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

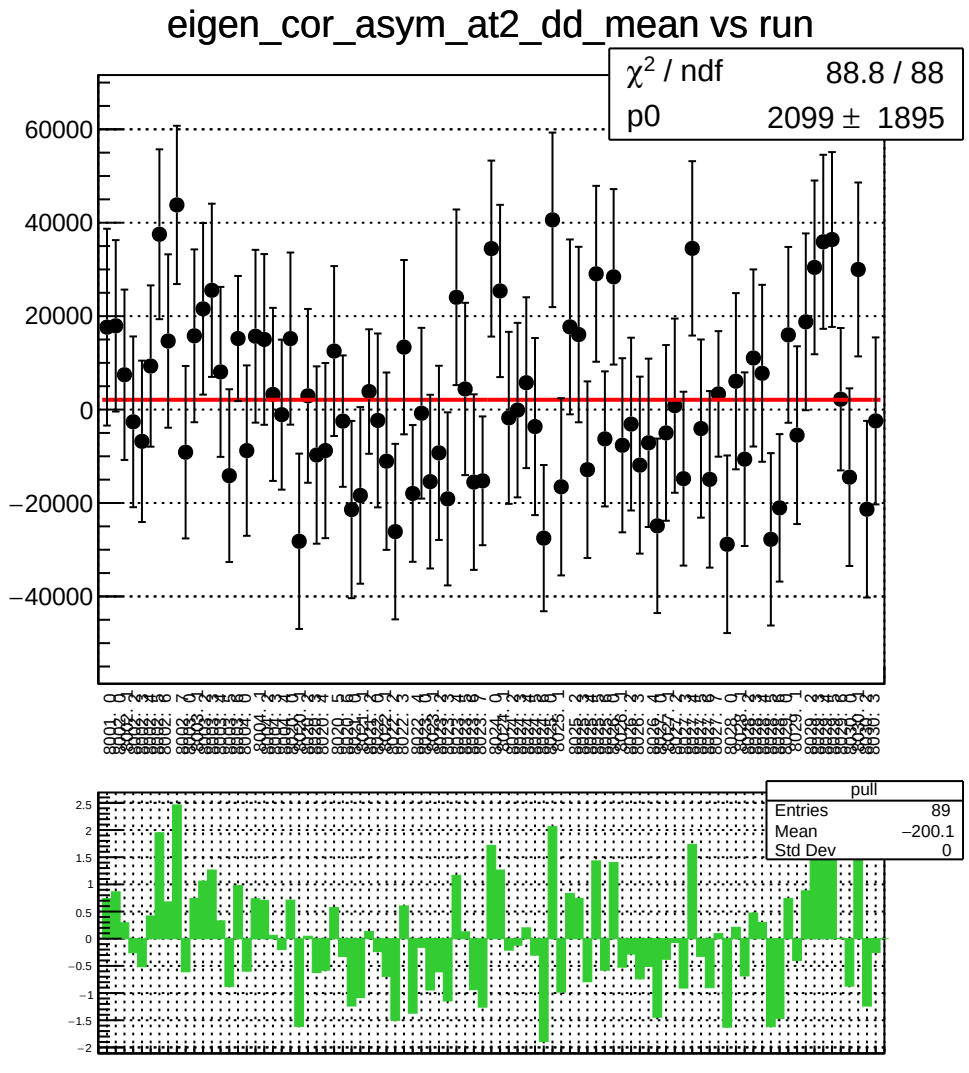

pull1D
Entries 89
Mean 0.01027
Std Dev 0.9988
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

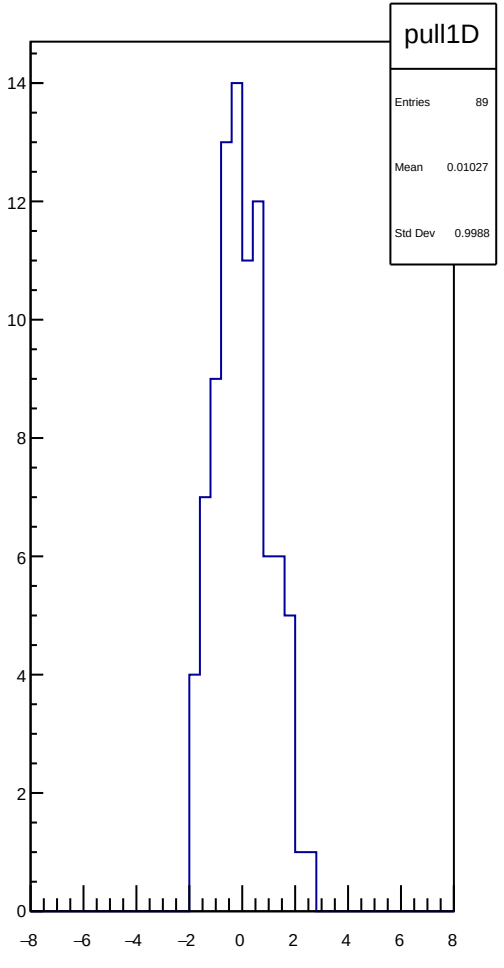

cor_asym_at2_dd_rms vs run
χ² / ndf 496.3 / 88
p0 1765 ± 1.34
1850
1800
1750
1700
1650

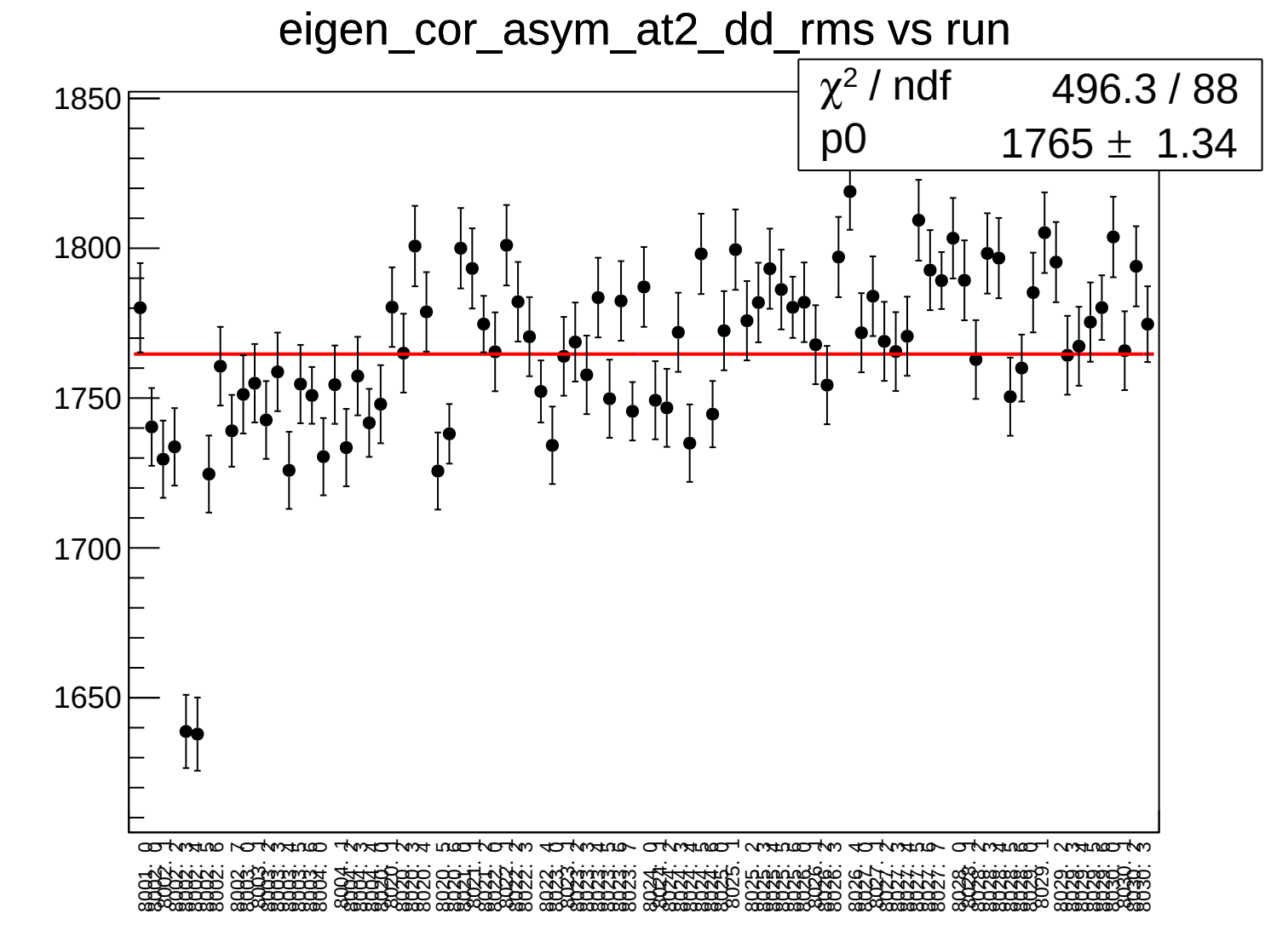

asym_at2_dd_cor_correction_mean vs run
χ² / ndf 93.87 / 88
p0 −586.7 ± 2720
×10³
pull
Entries 89
Mean 187.2
Std Dev 0

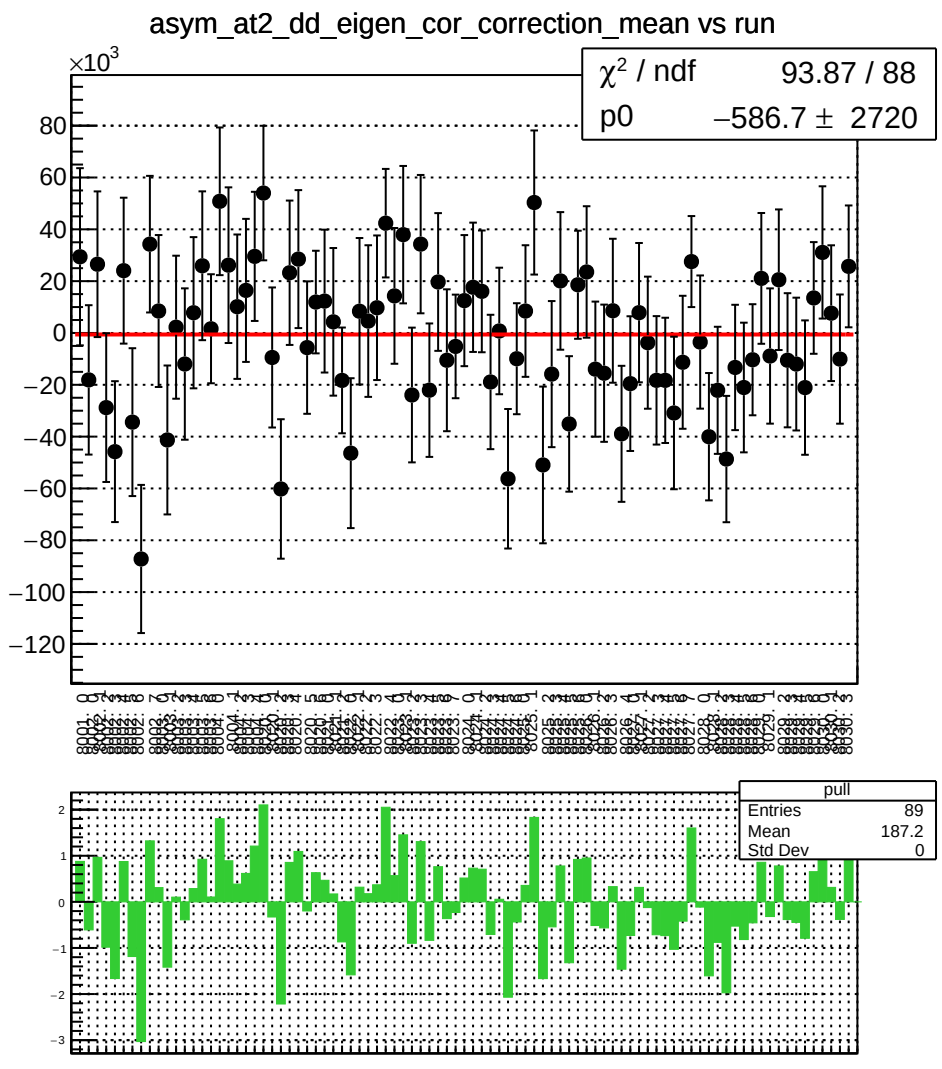

pull1D
Entries 89
Mean −0.01624
Std Dev 1.027

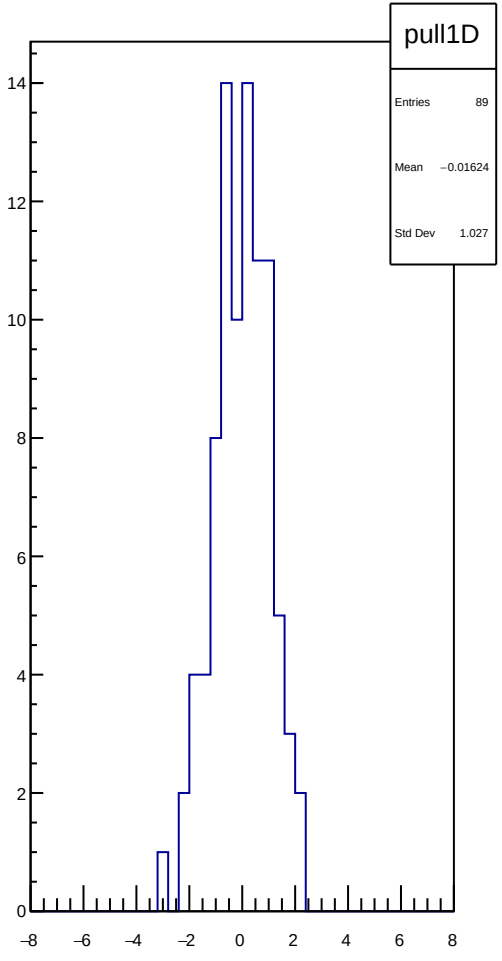

asym_at2_dd_cor_correction_rms vs run
χ² / ndf 6058 / 88
p0 2529 ± 1.923
2900
2800
2700
2600
2500
2400
2300
2200

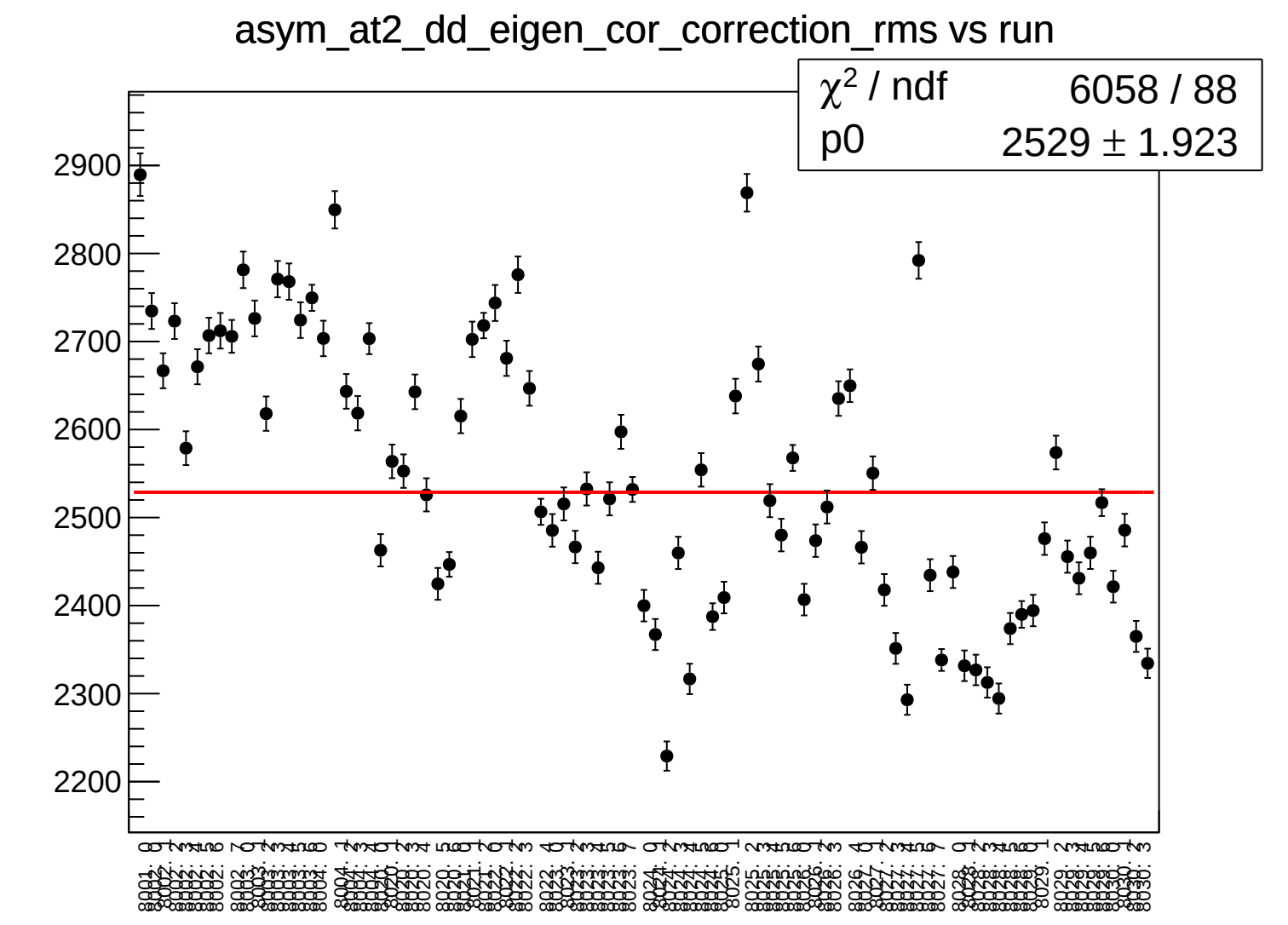

eigen_cor_asym_at2_dd_mean vs run
χ² / ndf 88.8 / 88
p0 2099 ± 1895
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −200.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

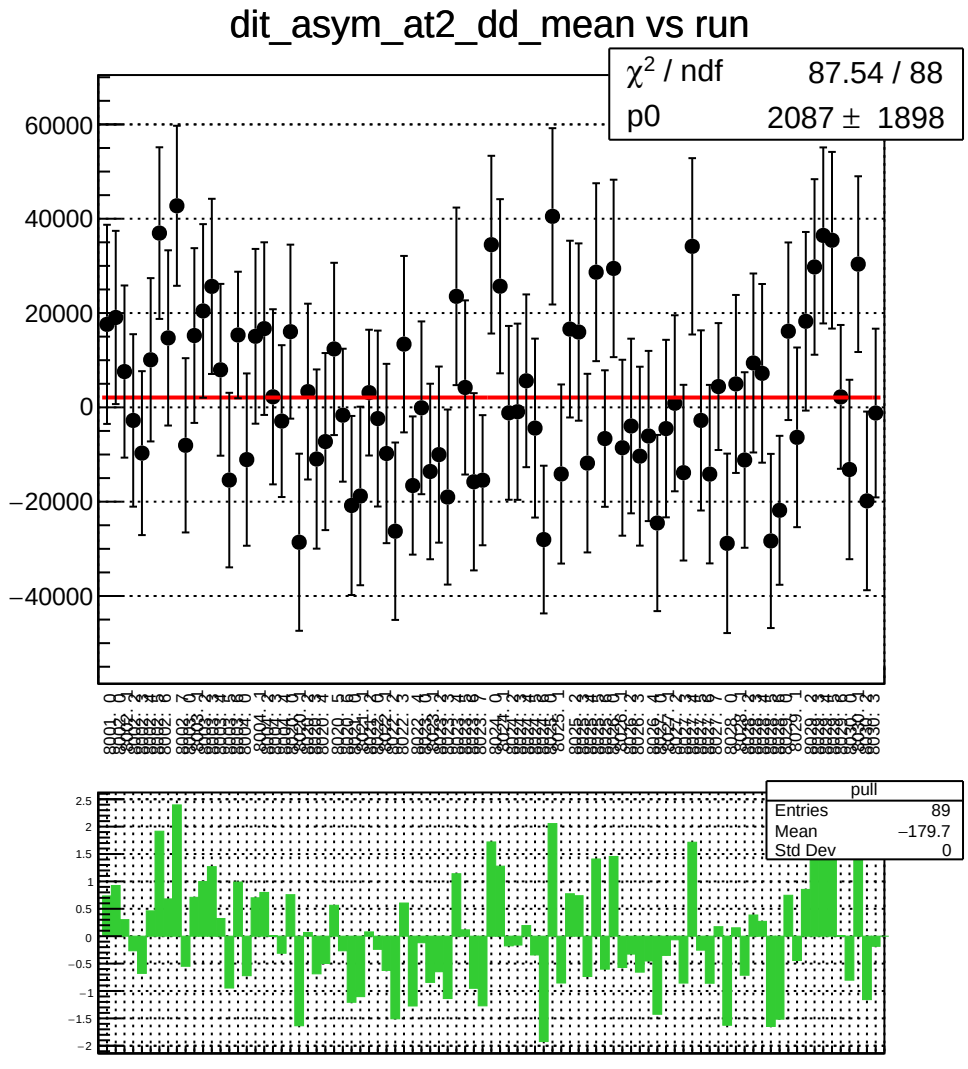

pull1D
Entries 89
Mean 0.01027
Std Dev 0.9988
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

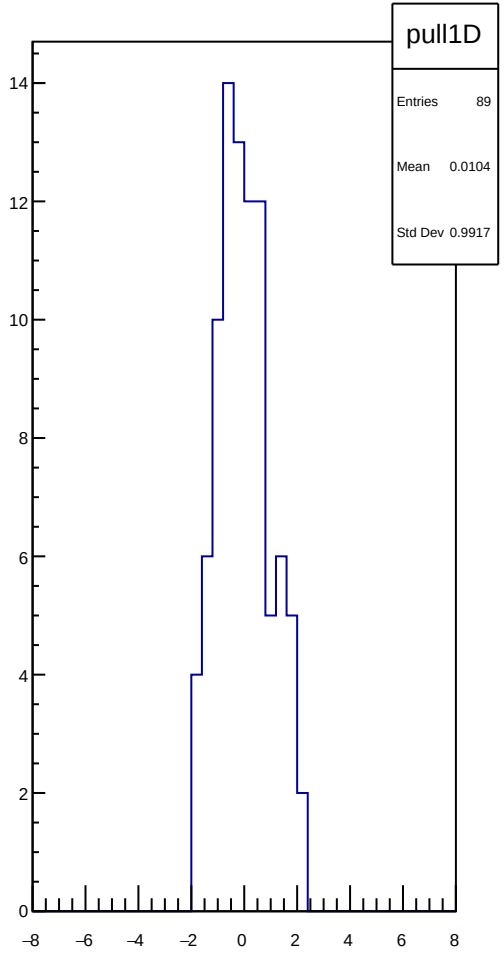

eigen_cor_asym_at2_dd_rms vs run
χ² / ndf 496.3 / 88
p0 1765 ± 1.34
1850
1800
1750
1700
1650

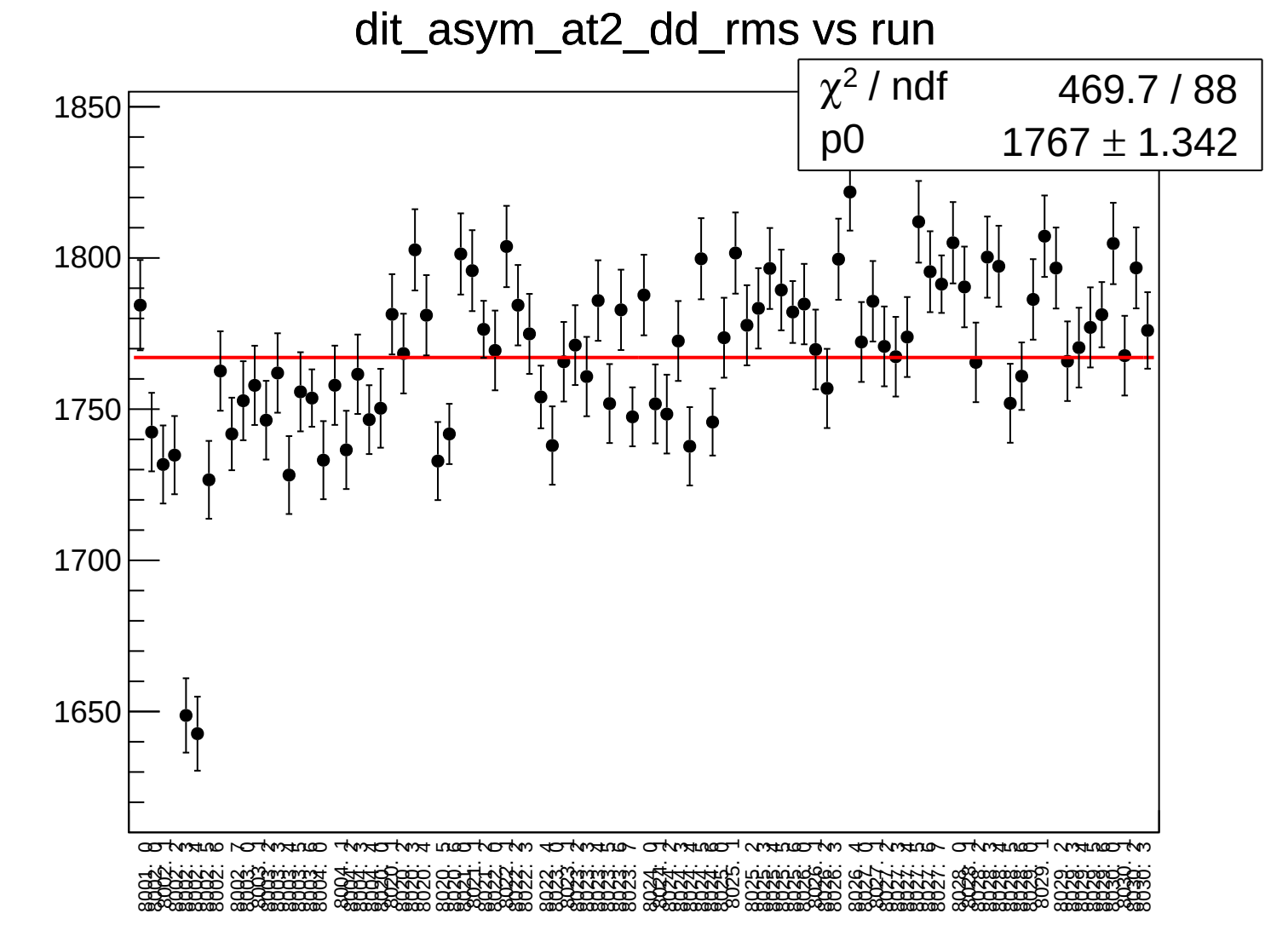

asym_at2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 93.87 / 88
p0 −586.7 ± 2720
pull
Entries 89
Mean 187.2
Std Dev 0

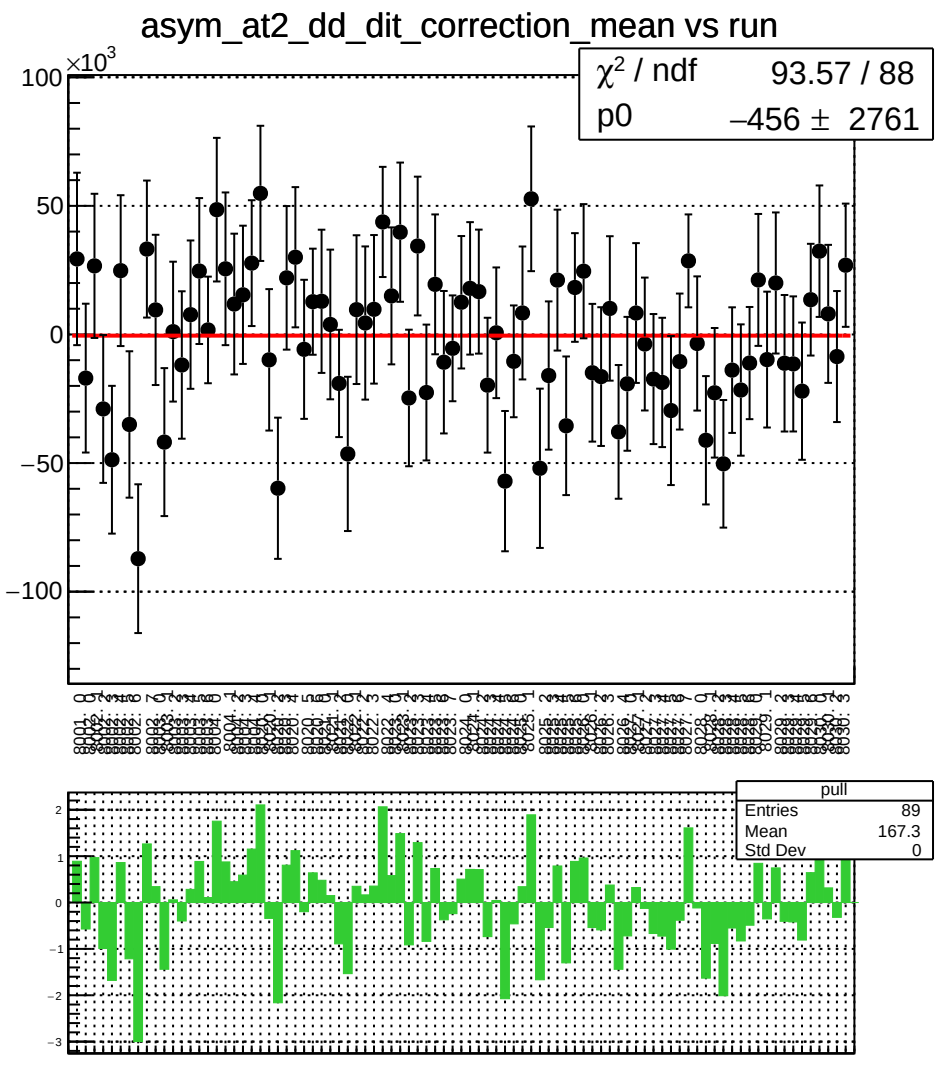

pull1D
Entries 89
Mean −0.01624
Std Dev 1.027

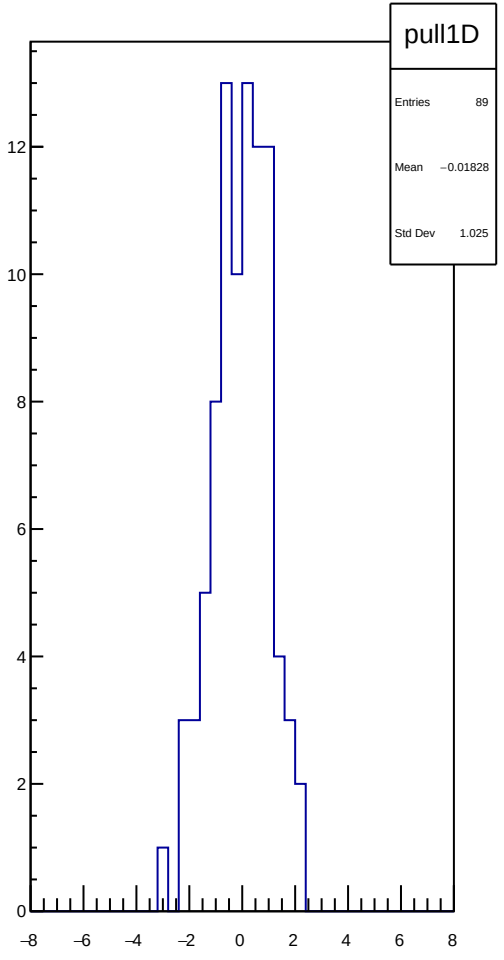

asym_at2_dd_eigen_cor_correction_rms vs run
χ² / ndf 6058 / 88
p0 2529 ± 1.923
2900
2800
2700
2600
2500
2400
2300
2200

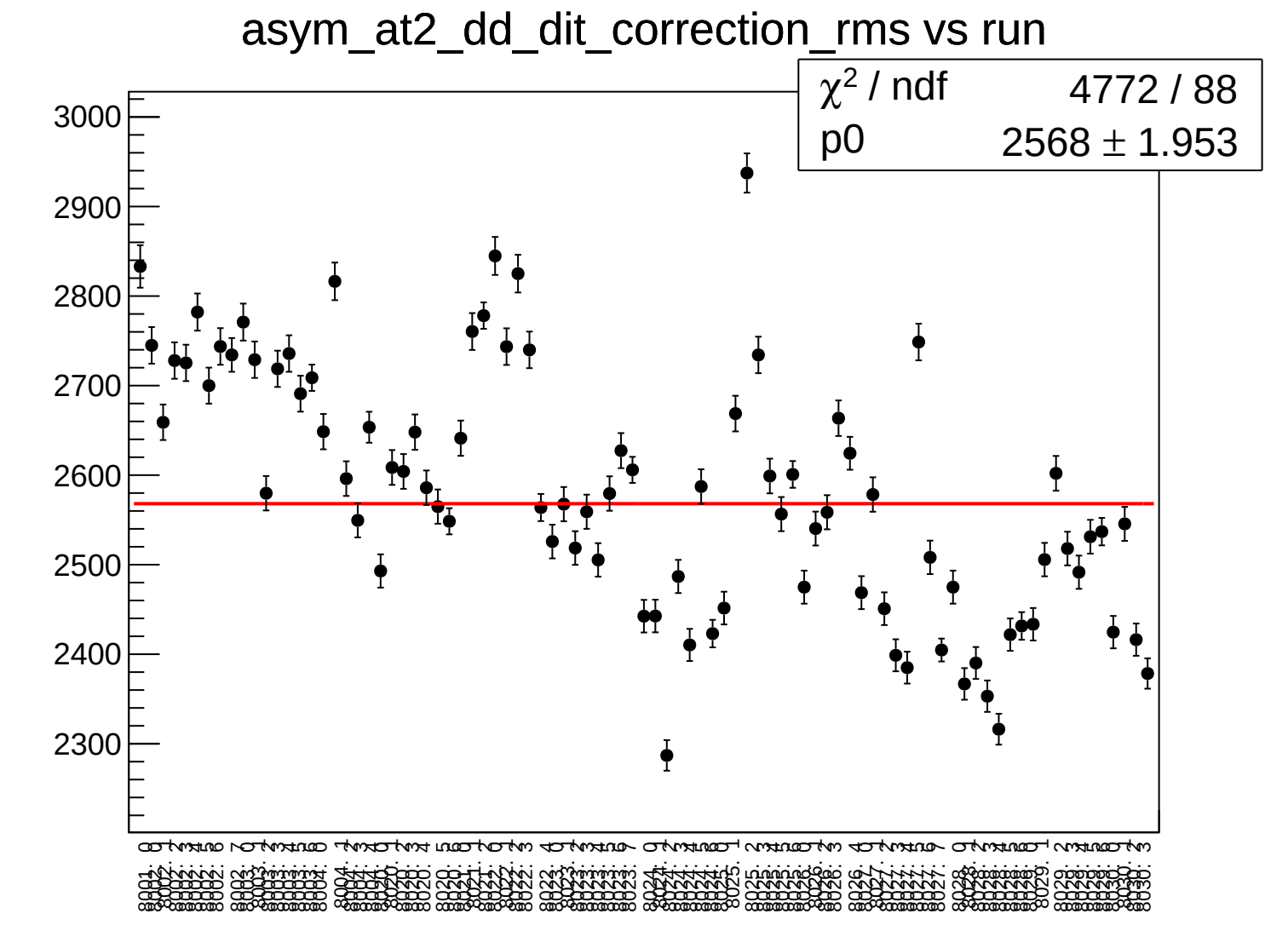

dit_asym_at2_dd_mean vs run
χ² / ndf 87.54 / 88
p0 2087 ± 1898
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −179.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

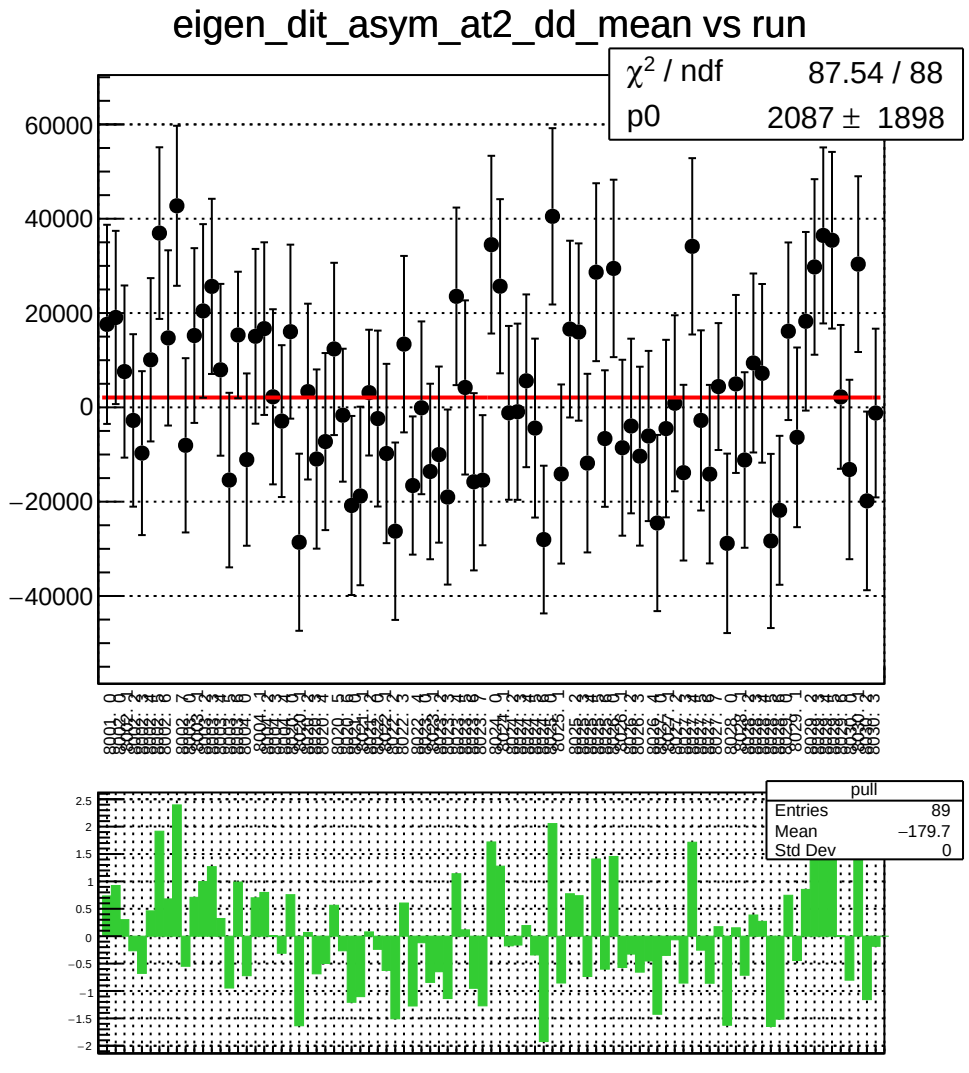

pull1D
Entries 89
Mean 0.0104
Std Dev 0.9917
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

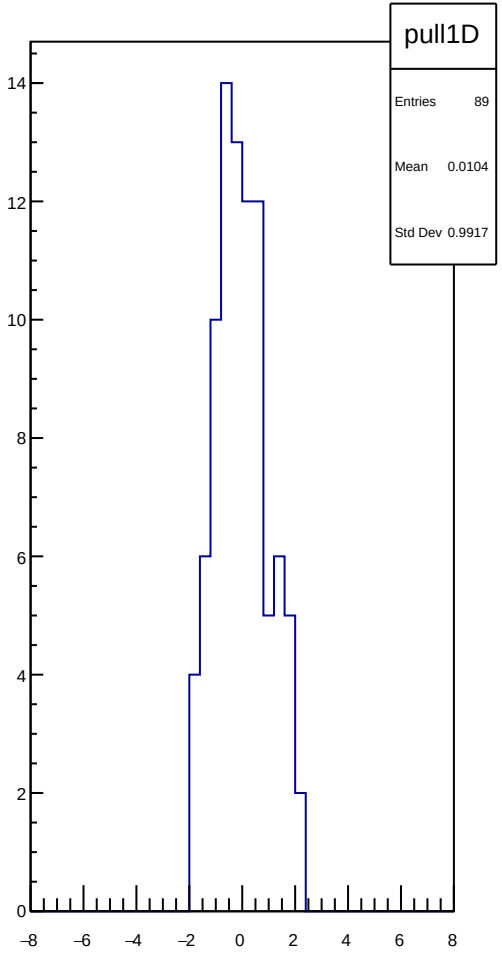

dit_asym_at2_dd_rms vs run
χ² / ndf 469.7 / 88
p0 1767 ± 1.342
1850
1800
1750
1700
1650

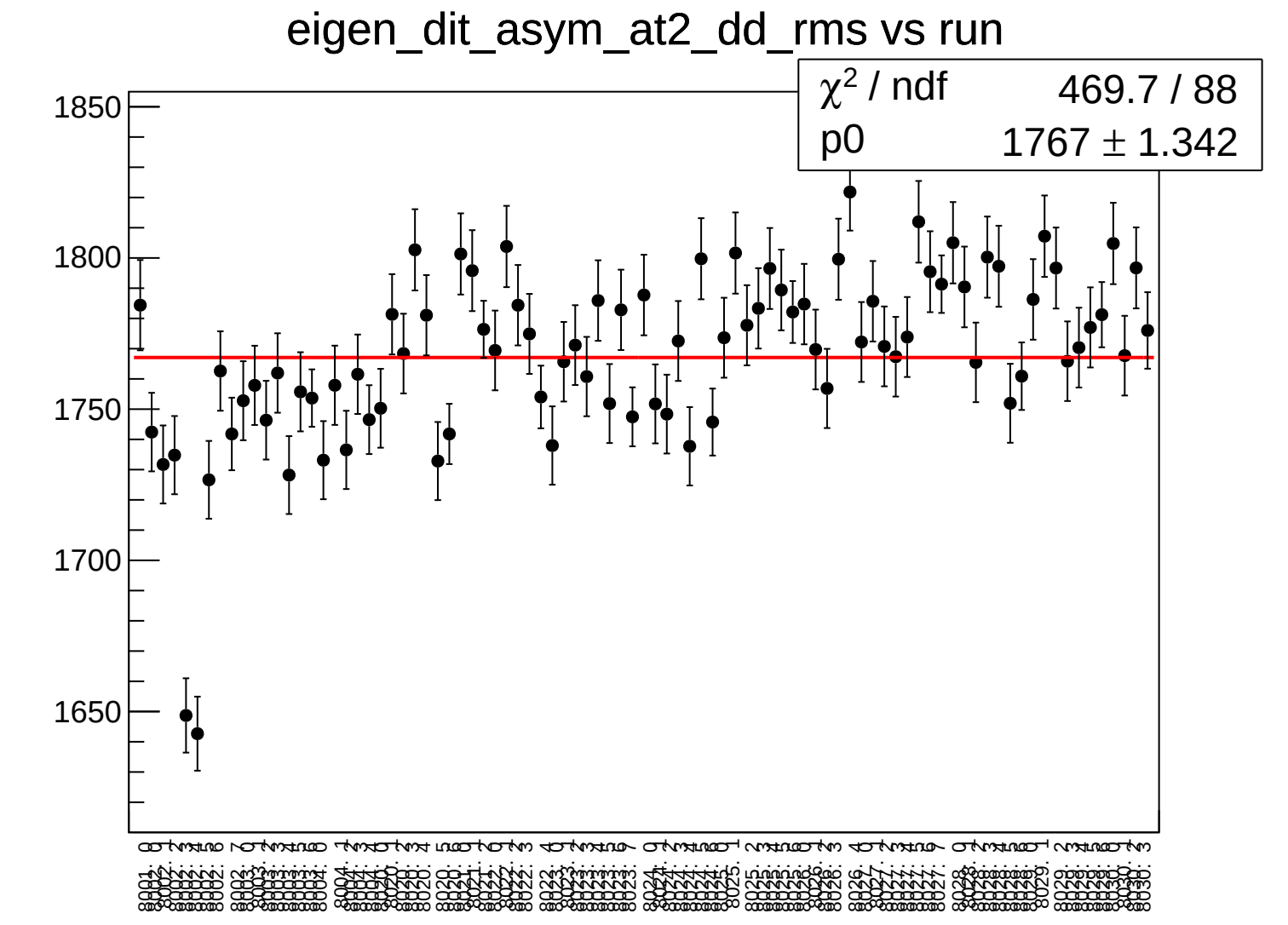

asym_at2_dd_dit_correction_mean vs run
χ² / ndf 93.57 / 88
p0 −456 ± 2761
×10³
100
50
0
−50
−100
pull
Entries 89
Mean 167.3
Std Dev 0
2
1
0
−1
−2
−3

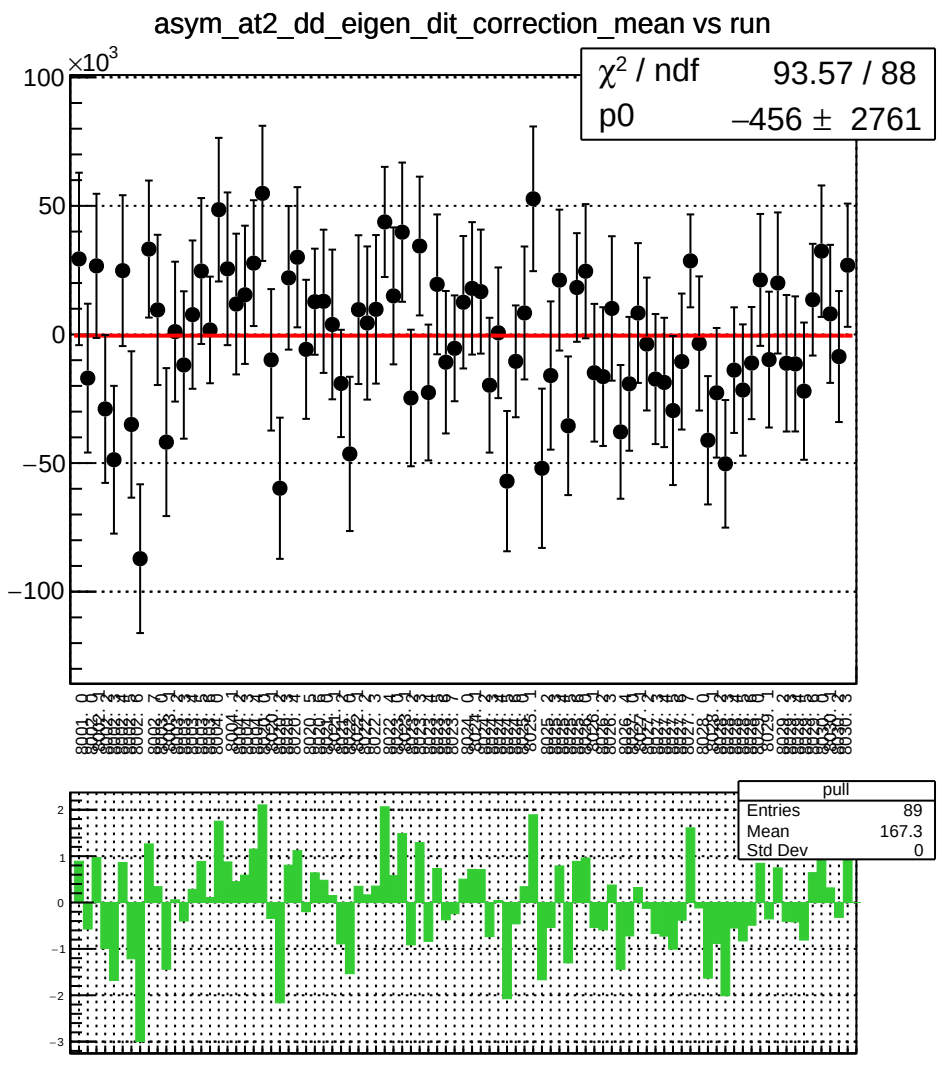

pull1D
Entries 89
Mean −0.01828
Std Dev 1.025
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

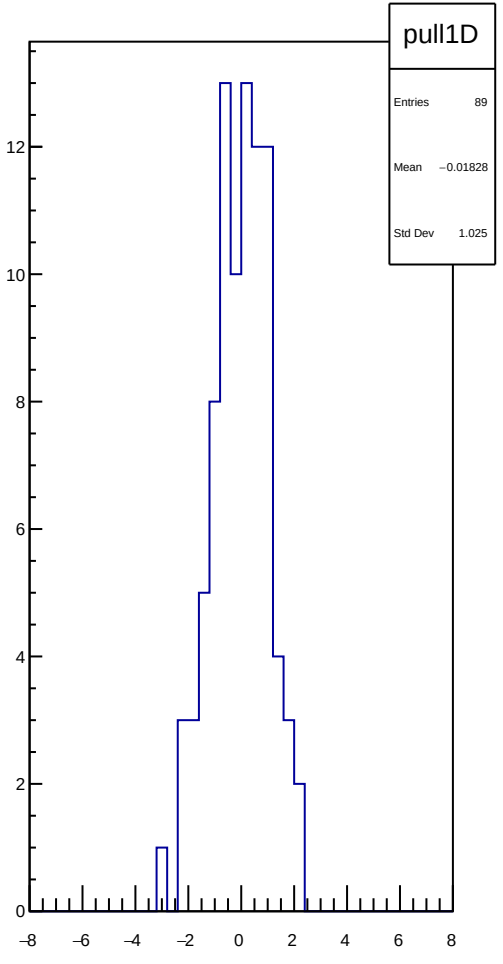

asym_at2_dd_dit_correction_rms vs run
χ² / ndf 4772 / 88
p0 2568 ± 1.953
3000
2900
2800
2700
2600
2500
2400
2300

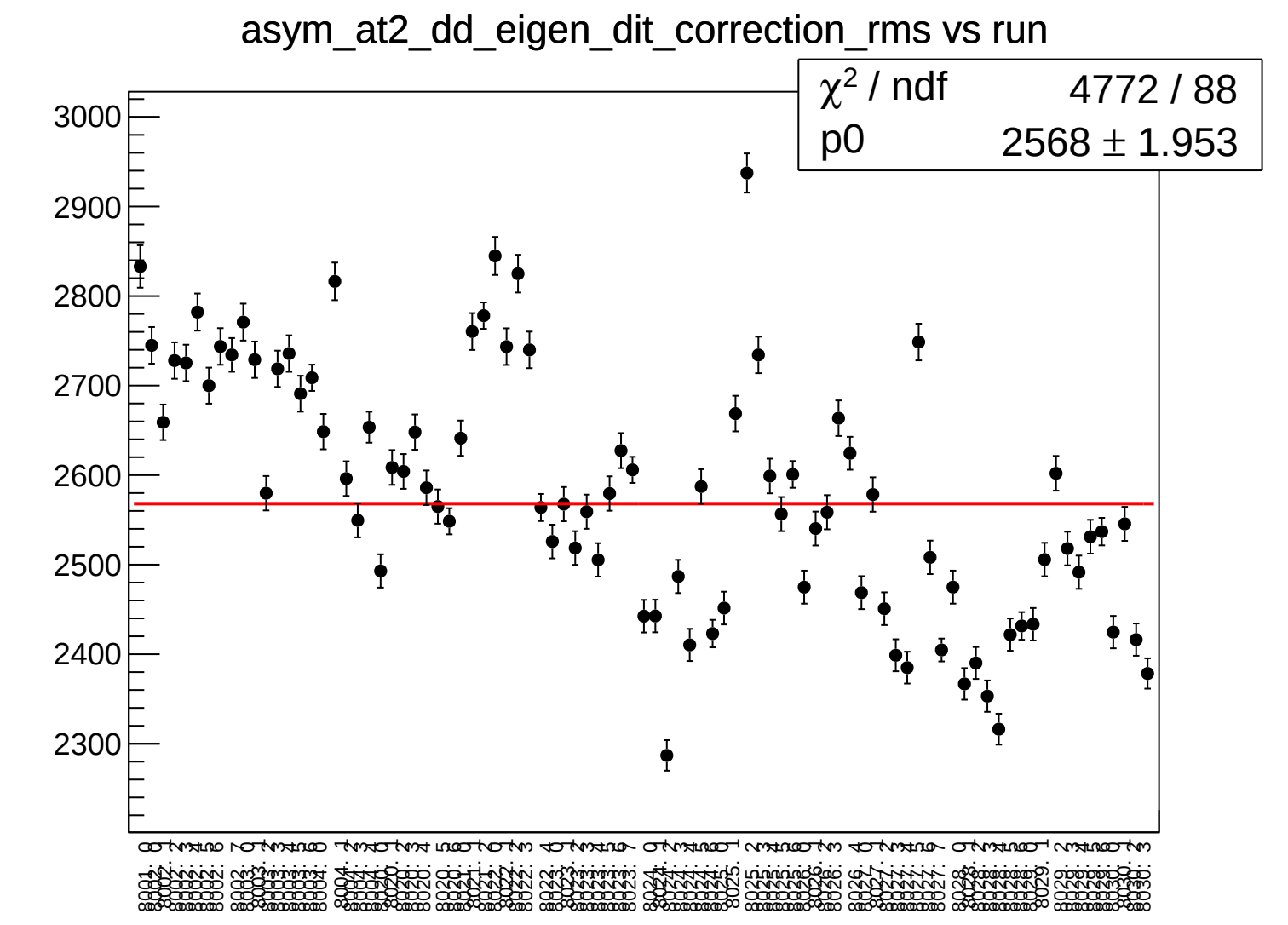

eigen_dit_asym_at2_dd_mean vs run
χ² / ndf 87.54 / 88
p0 2087 ± 1898
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −179.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

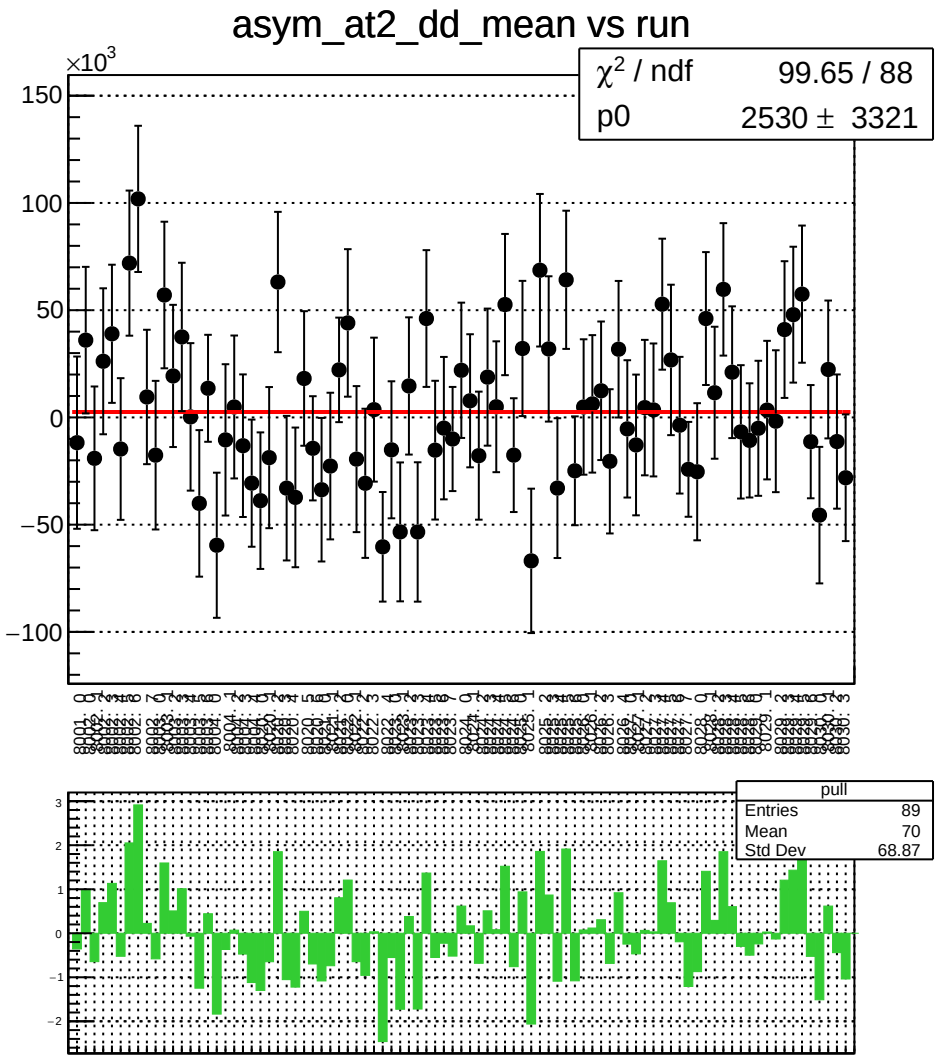

pull1D
Entries 89
Mean 0.0104
Std Dev 0.9917
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

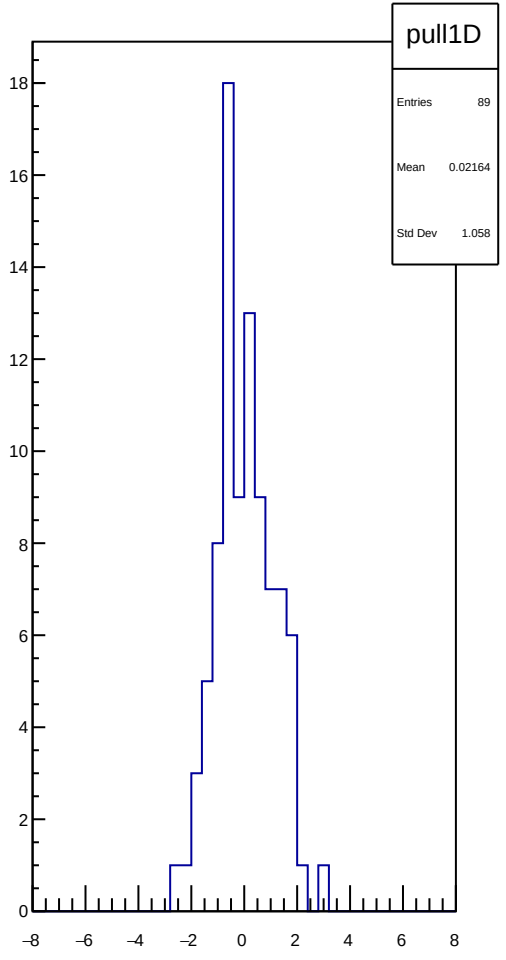

eigen_dit_asym_at2_dd_rms vs run
χ^2 / ndf 469.7 / 88
p0 1767 ± 1.342
1850
1800
1750
1700
1650

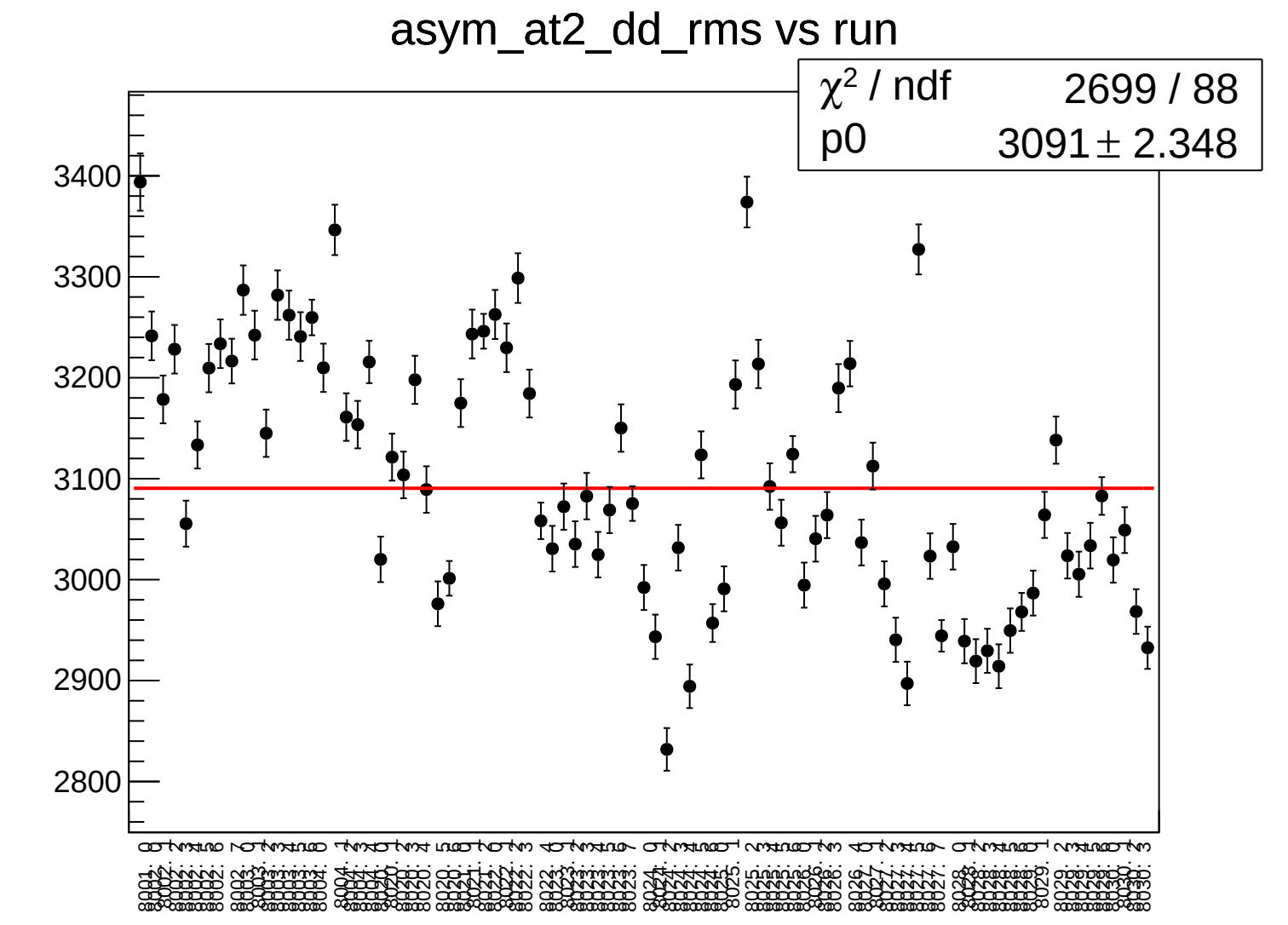

asym_at2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 93.57 / 88
p0 −456 ± 2761
pull
Entries 89
Mean 167.3
Std Dev 0

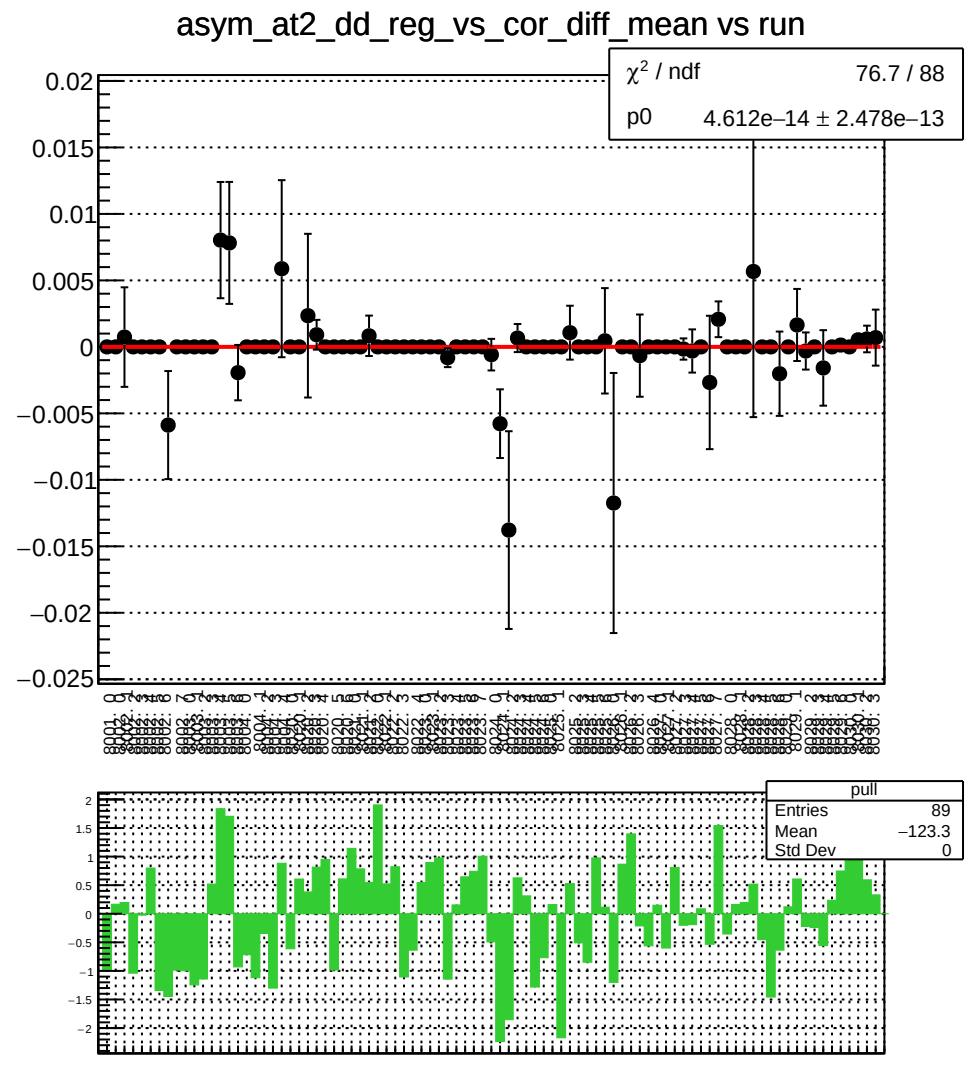

pull1D
Entries 89
Mean −0.01828
Std Dev 1.025

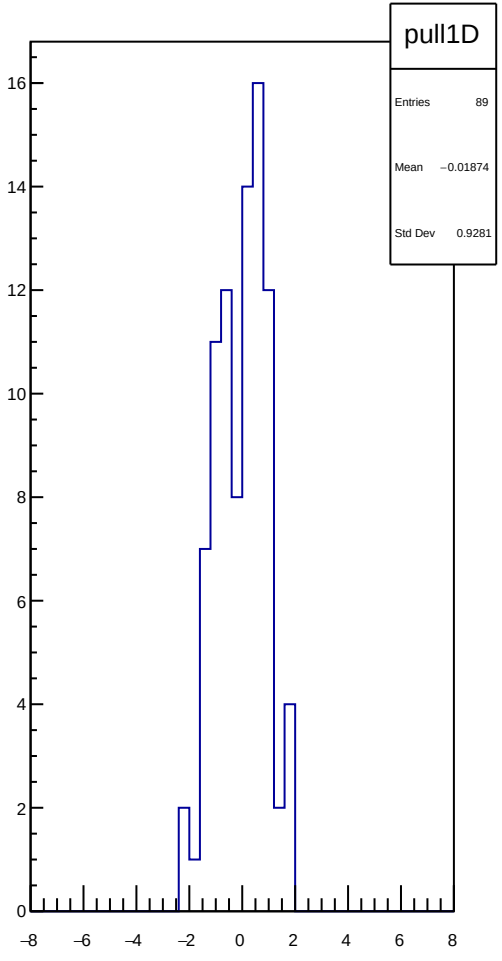

asym_at2_dd_eigen_dit_correction_rms vs run
χ² / ndf 4772 / 88
p0 2568 ± 1.953
3000
2900
2800
2700
2600
2500
2400
2300

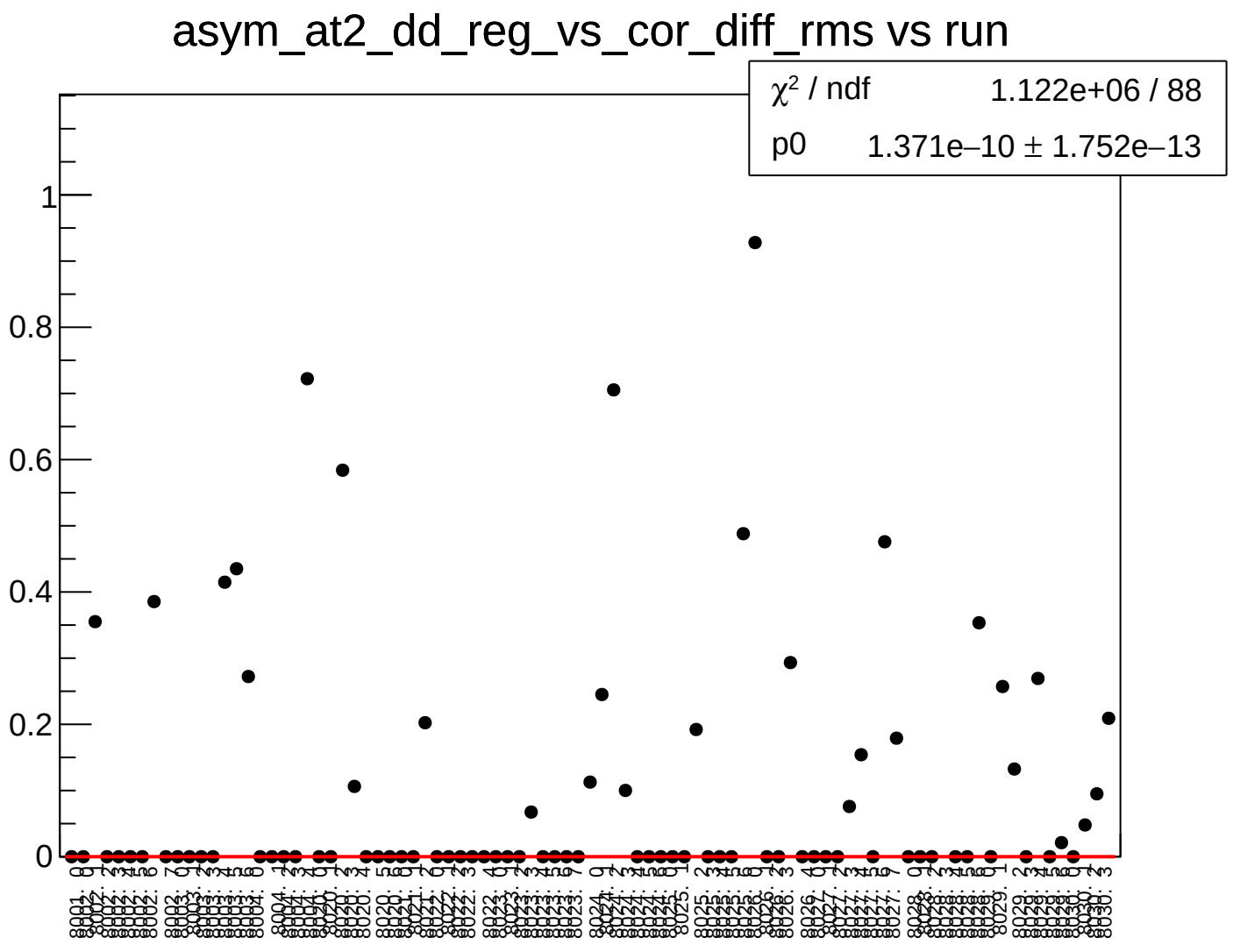

asym_at2_dd_mean vs run
×10^3
χ² / ndf 99.65 / 88
p0 2530 ± 3321
150
100
50
0
−50
−100
pull
Entries 89
Mean 70
Std Dev 68.87
3
2
1
0
−1
−2

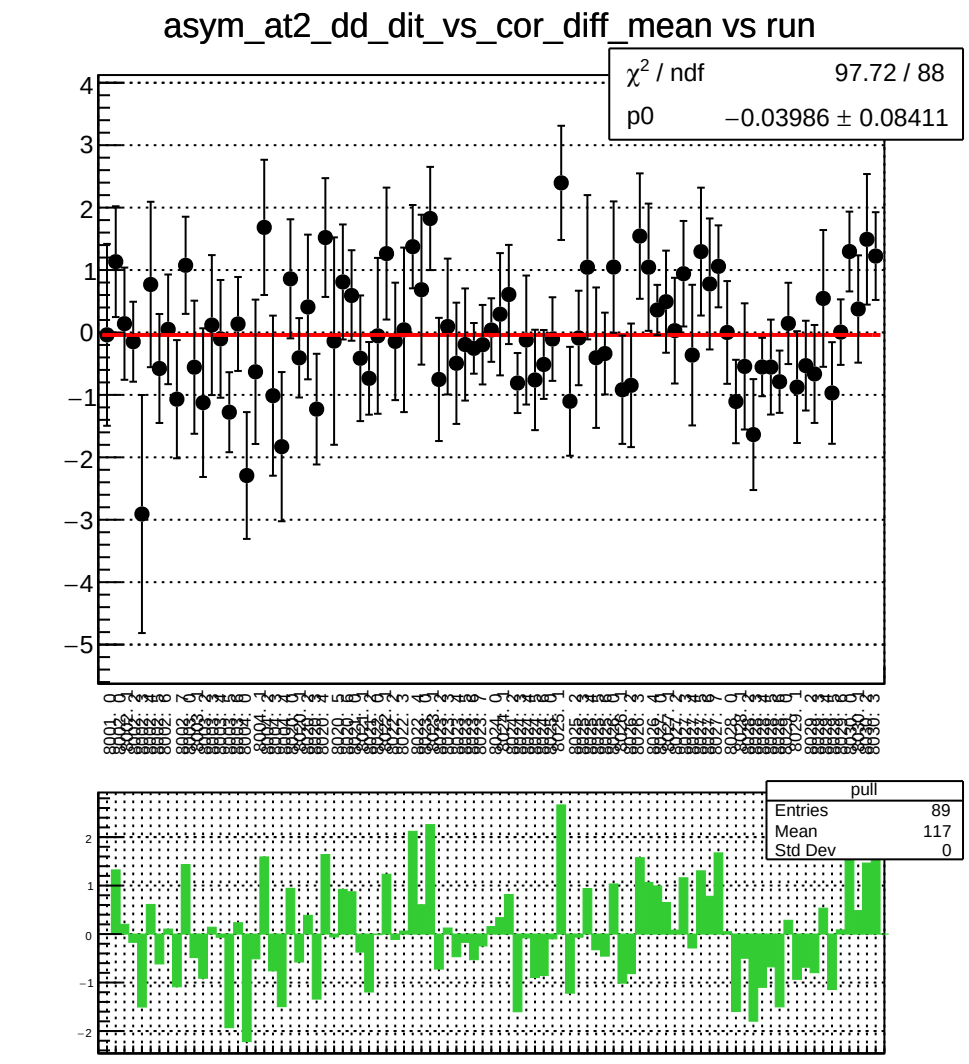

pull1D
Entries 89
Mean 0.02164
Std Dev 1.058
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

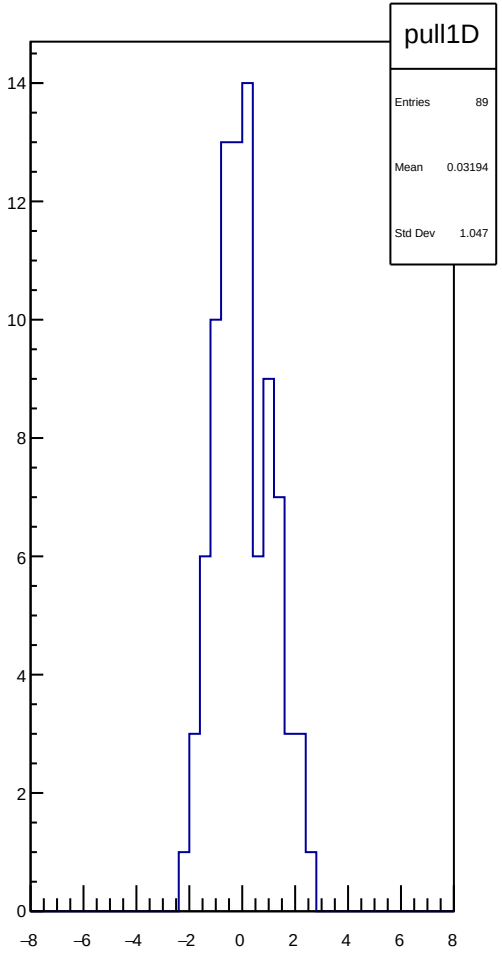

asym_at2_dd_rms vs run
χ² / ndf 2699 / 88
p0 3091 ± 2.348
3400
3300
3200
3100
3000
2900
2800

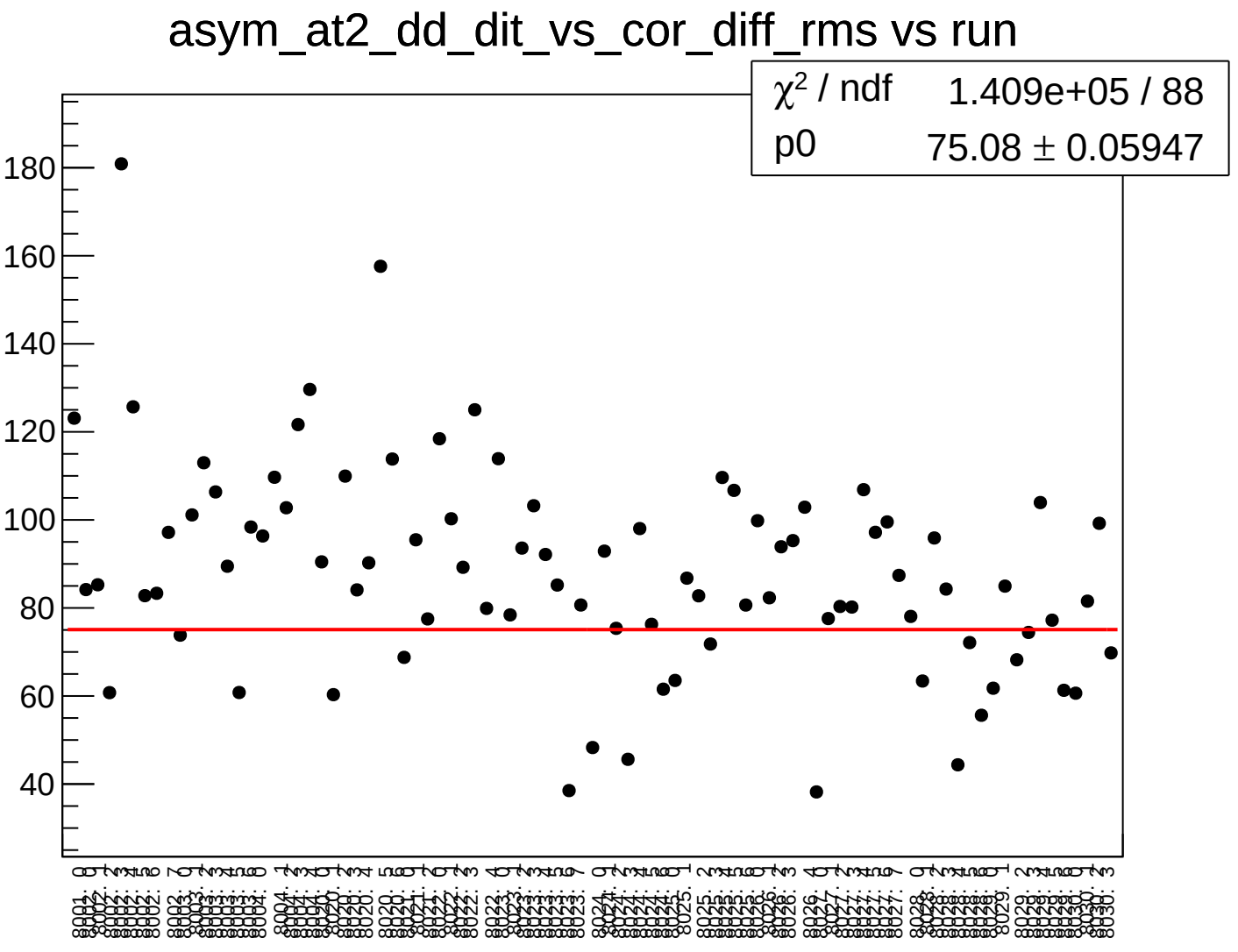

asym_at2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 76.7 / 88
p0 4.612e−14 ± 2.478e−13
pull
Entries 89
Mean −123.3
Std Dev 0

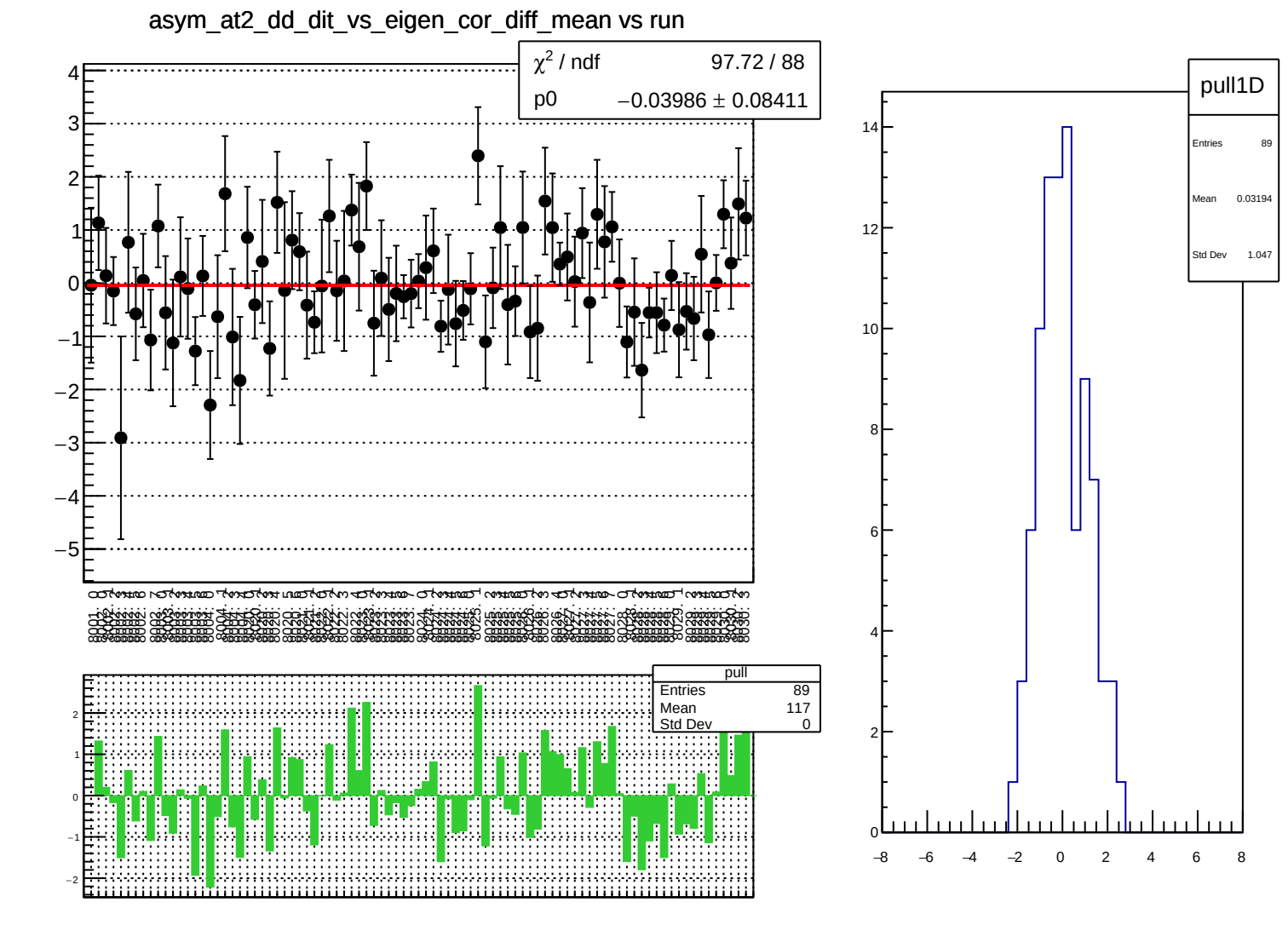

pull1D
Entries 89
Mean −0.01874
Std Dev 0.9281

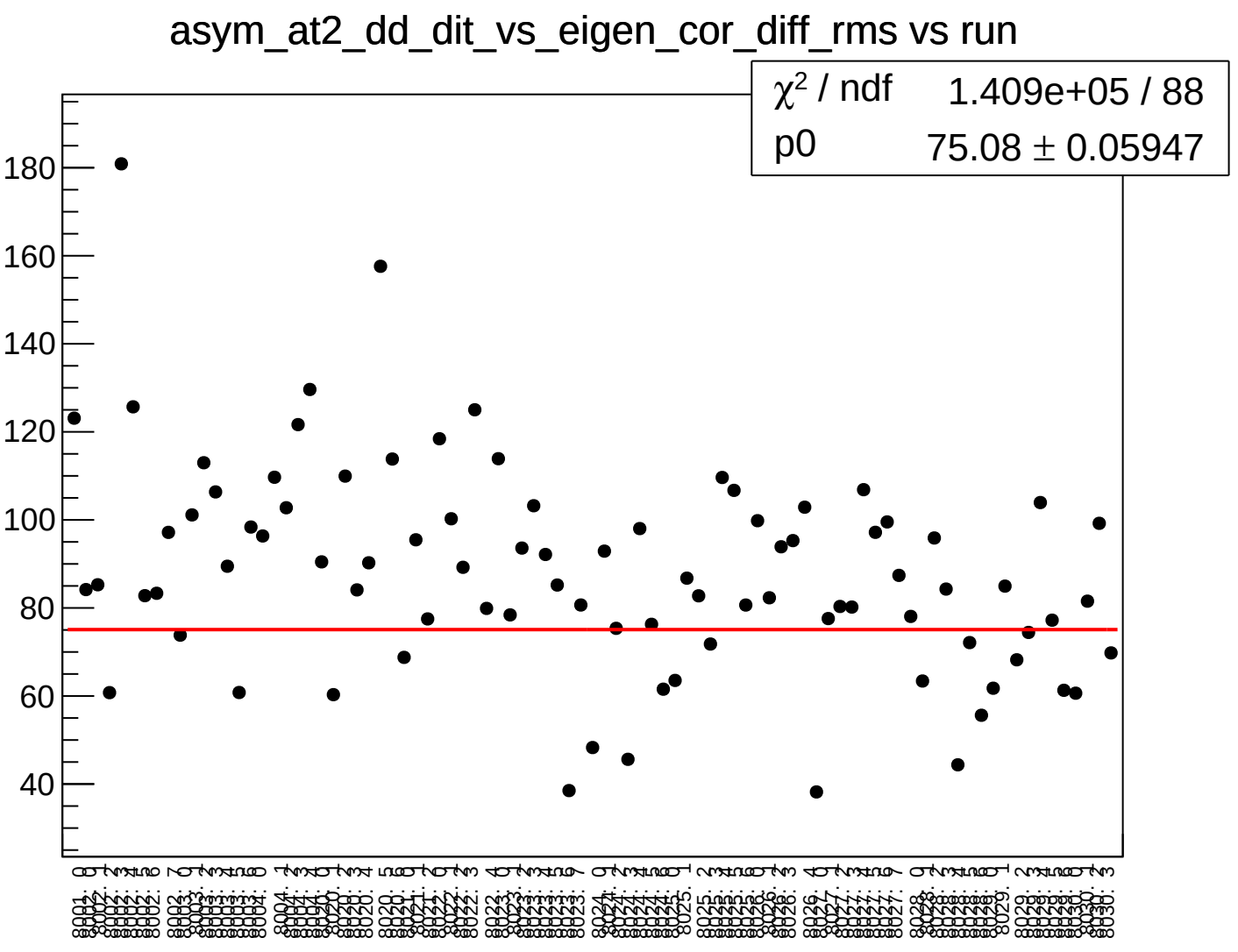

asym_at2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.122e+06 / 88
p0 1.371e−10 ± 1.752e−13
1
0.8
0.6
0.4
0.2
0

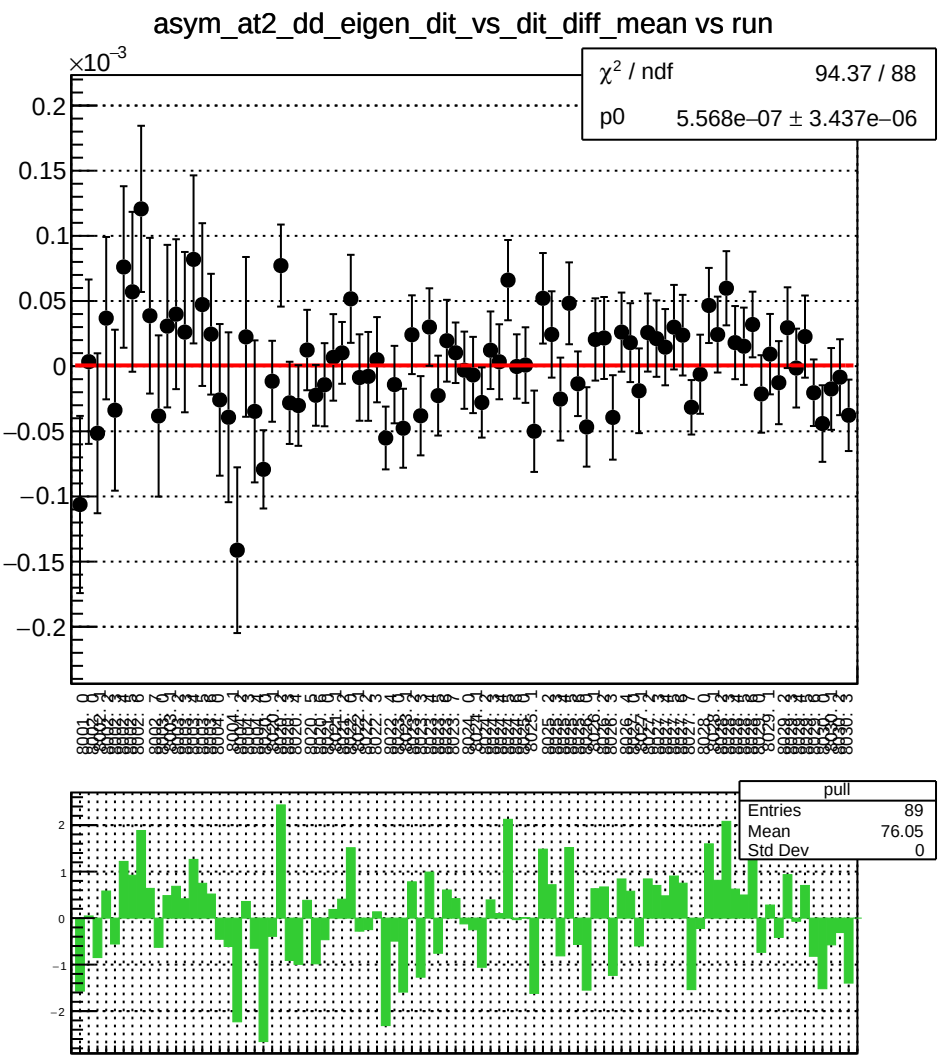

asym_at2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 97.72 / 88
p0 −0.03986 ± 0.08411
pull
Entries 89
Mean 117
Std Dev 0

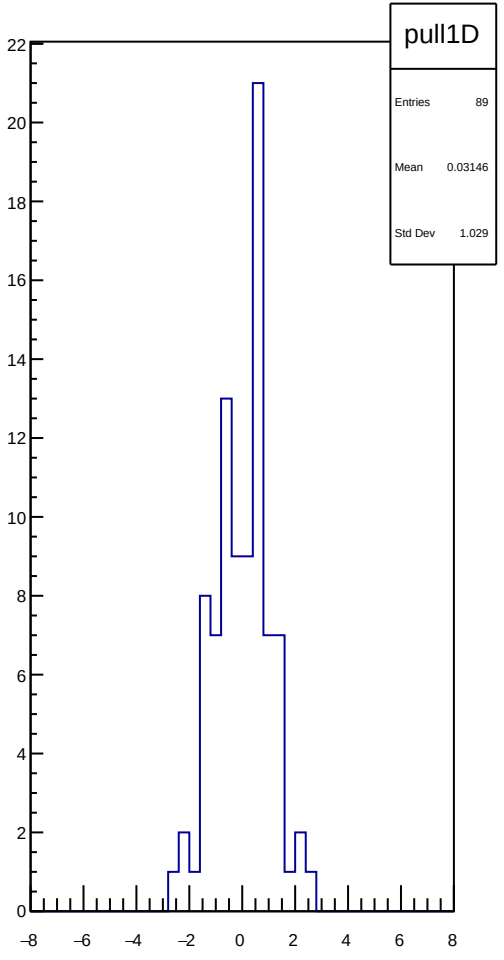

pull1D
Entries 89
Mean 0.03194
Std Dev 1.047

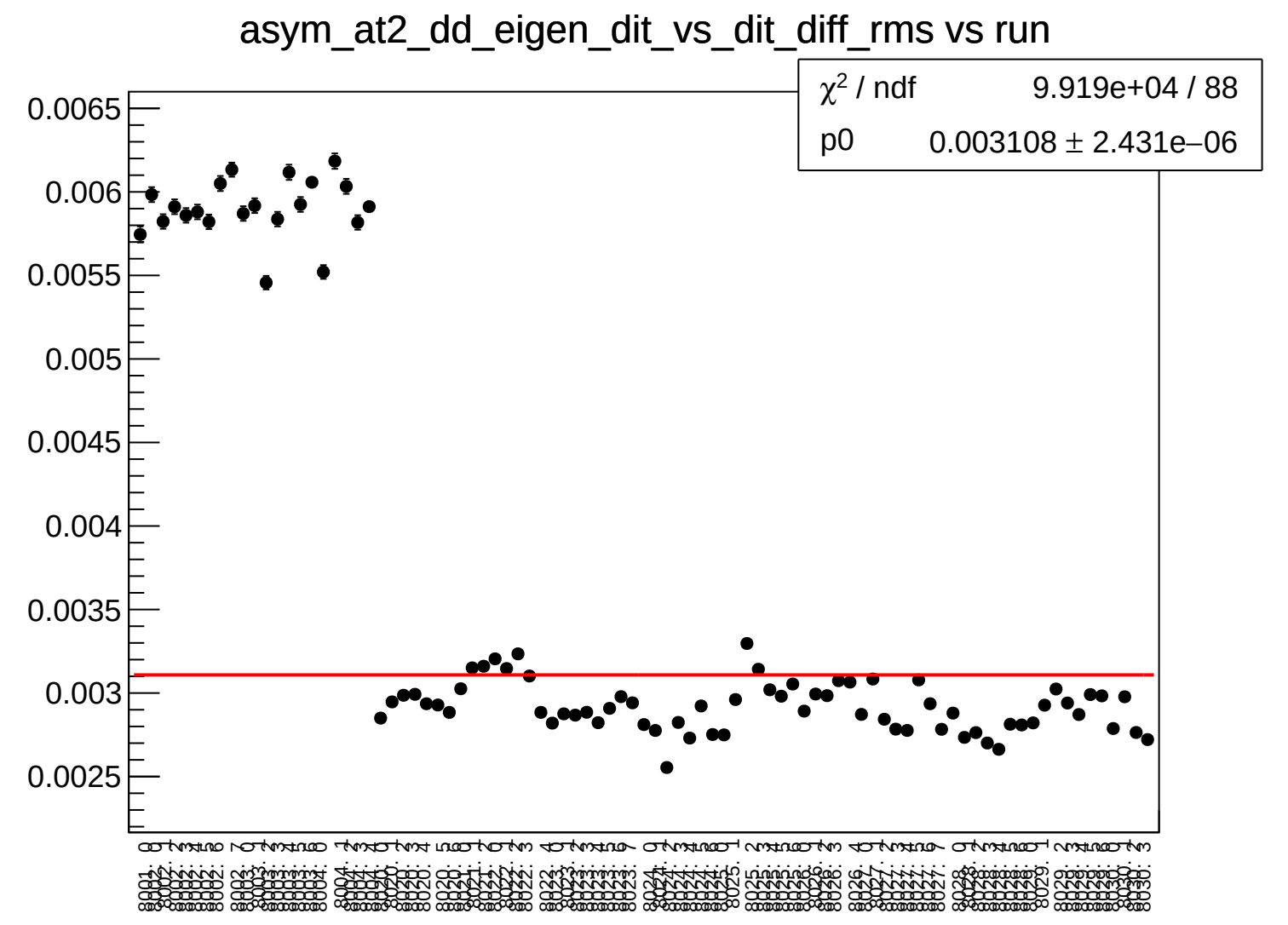

asym_at2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.409e+05 / 88
p0 75.08 ± 0.05947
180
160
140
120
100
80
60
40

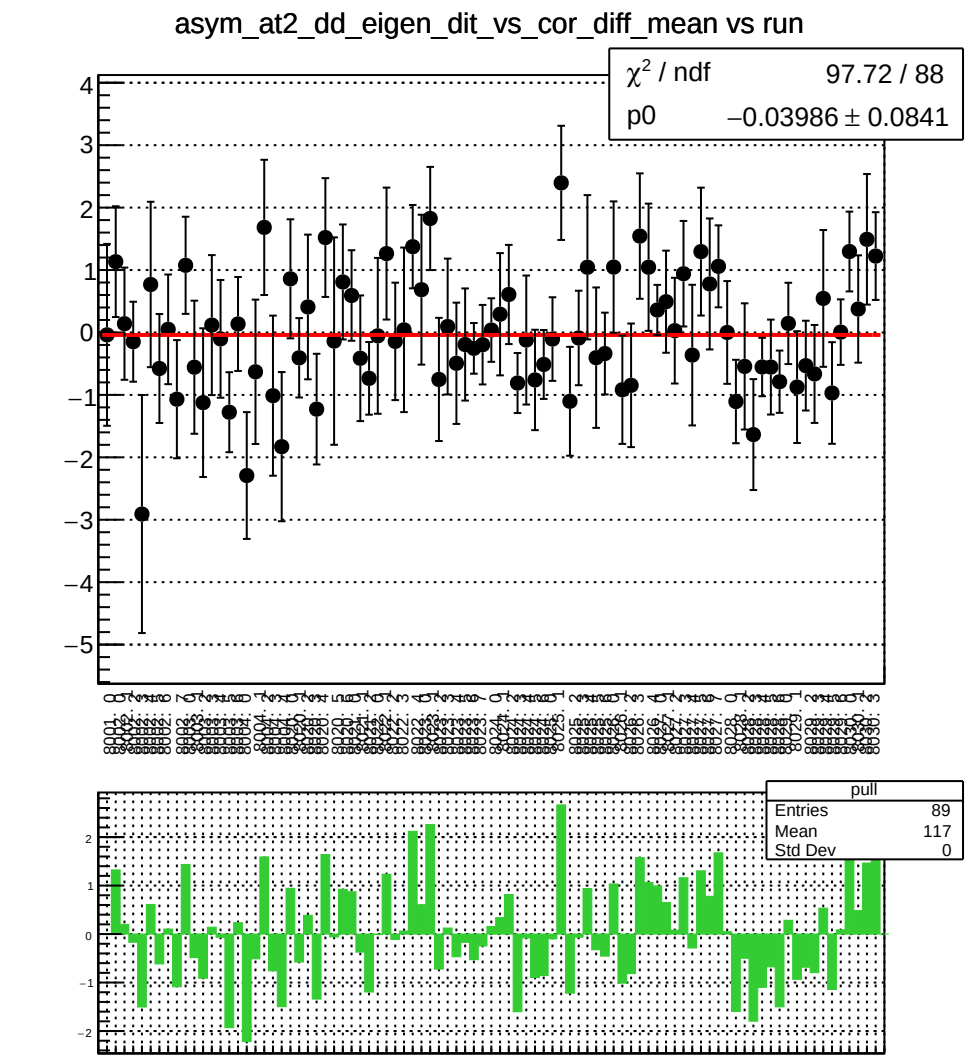

asym_at2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.72 / 88
p0 −0.03986 ± 0.08411
pull
Entries 89
Mean 117
Std Dev 0
pull1D
Entries 89
Mean 0.03194
Std Dev 1.047

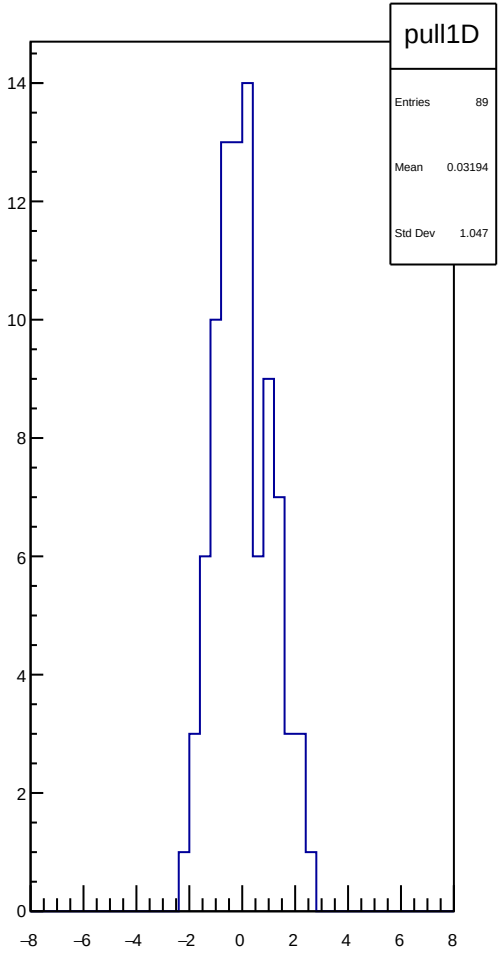

asym_at2_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.409e+05 / 88
p0 75.08 ± 0.05947
180
160
140
120
100
80
60
40

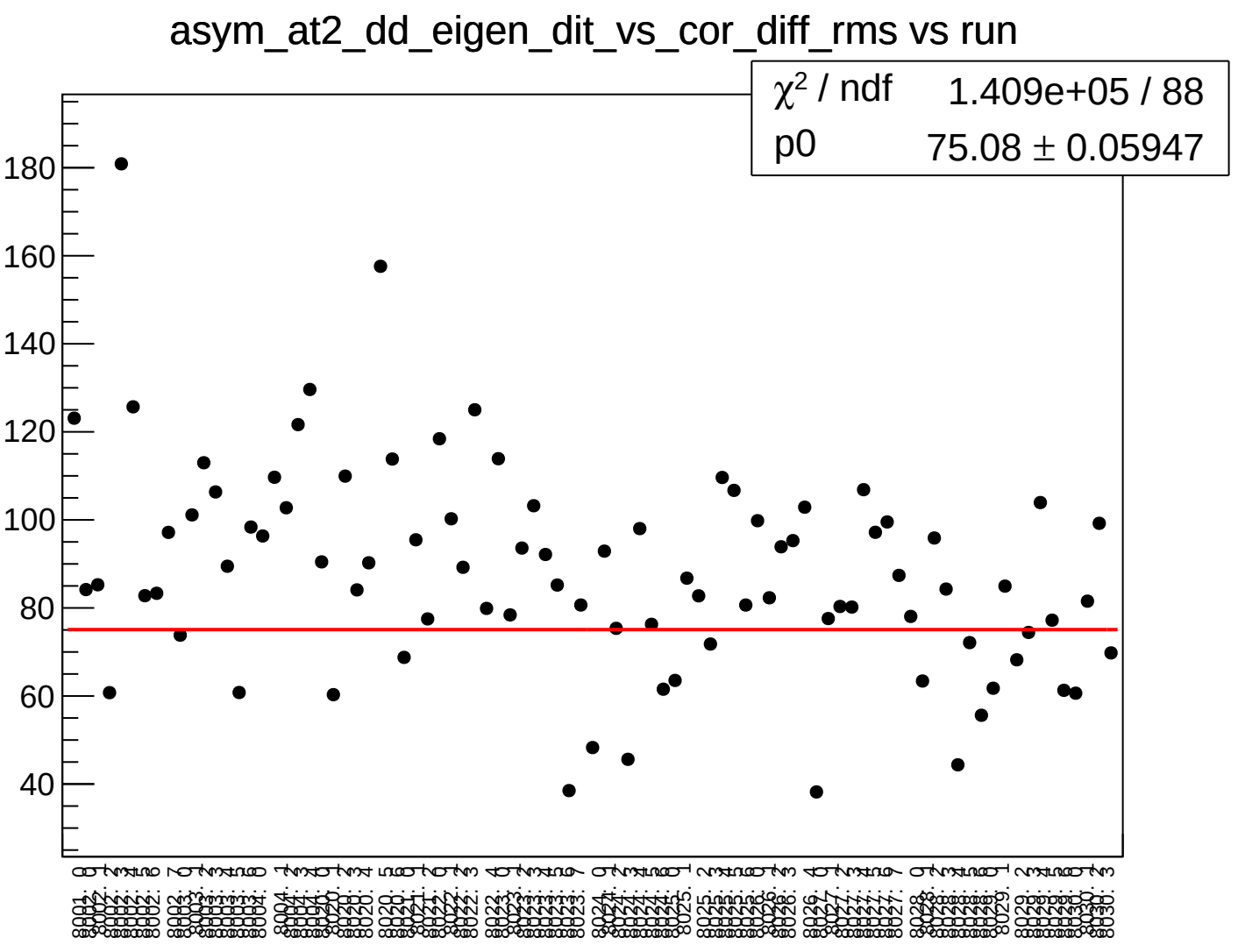

asym_at2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 94.37 / 88
p0 5.568e−07 ± 3.437e−06
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 89
Mean 76.05
Std Dev 0
2
1
0
−1
−2

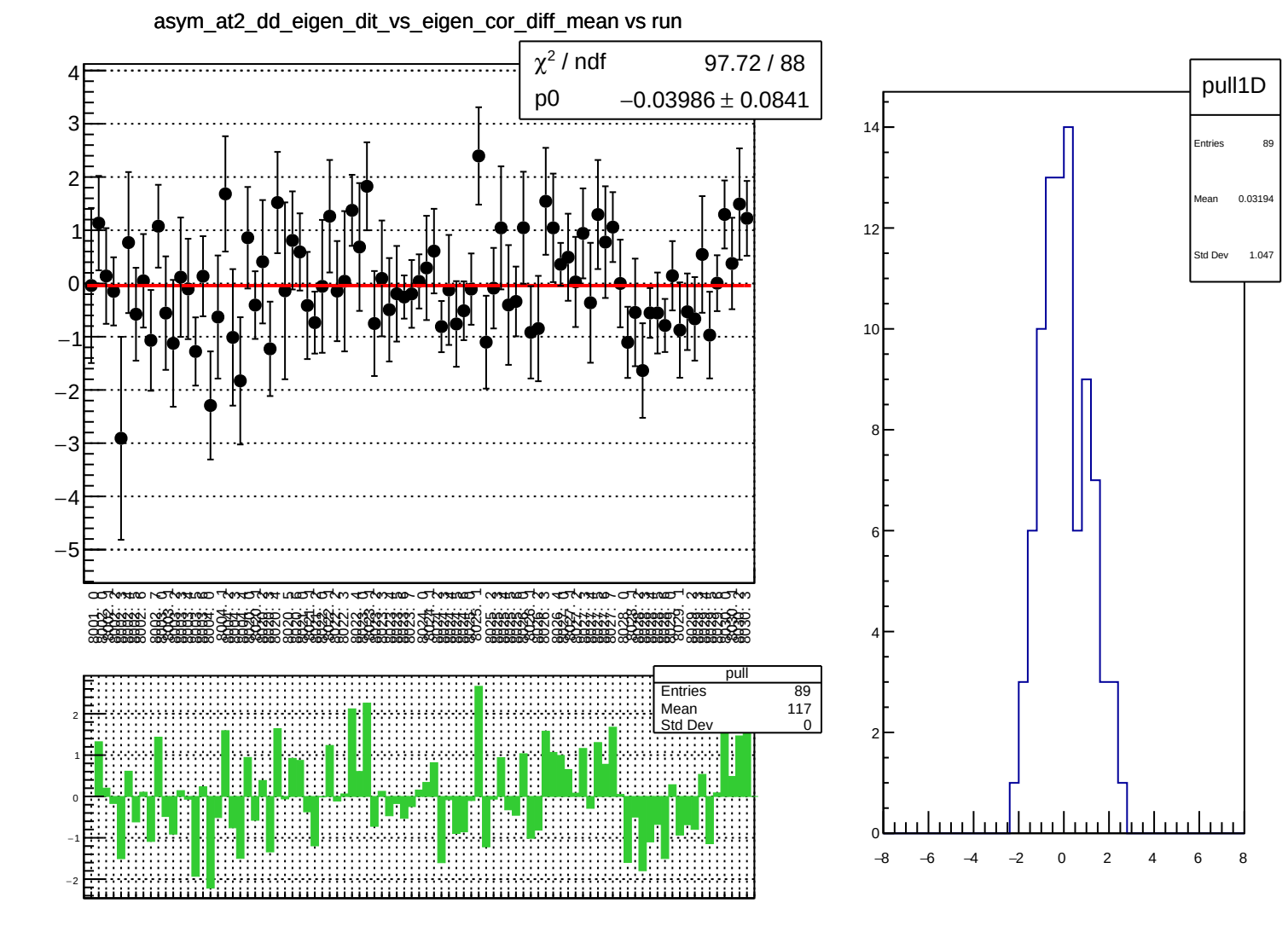

pull1D
Entries 89
Mean 0.03146
Std Dev 1.029
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

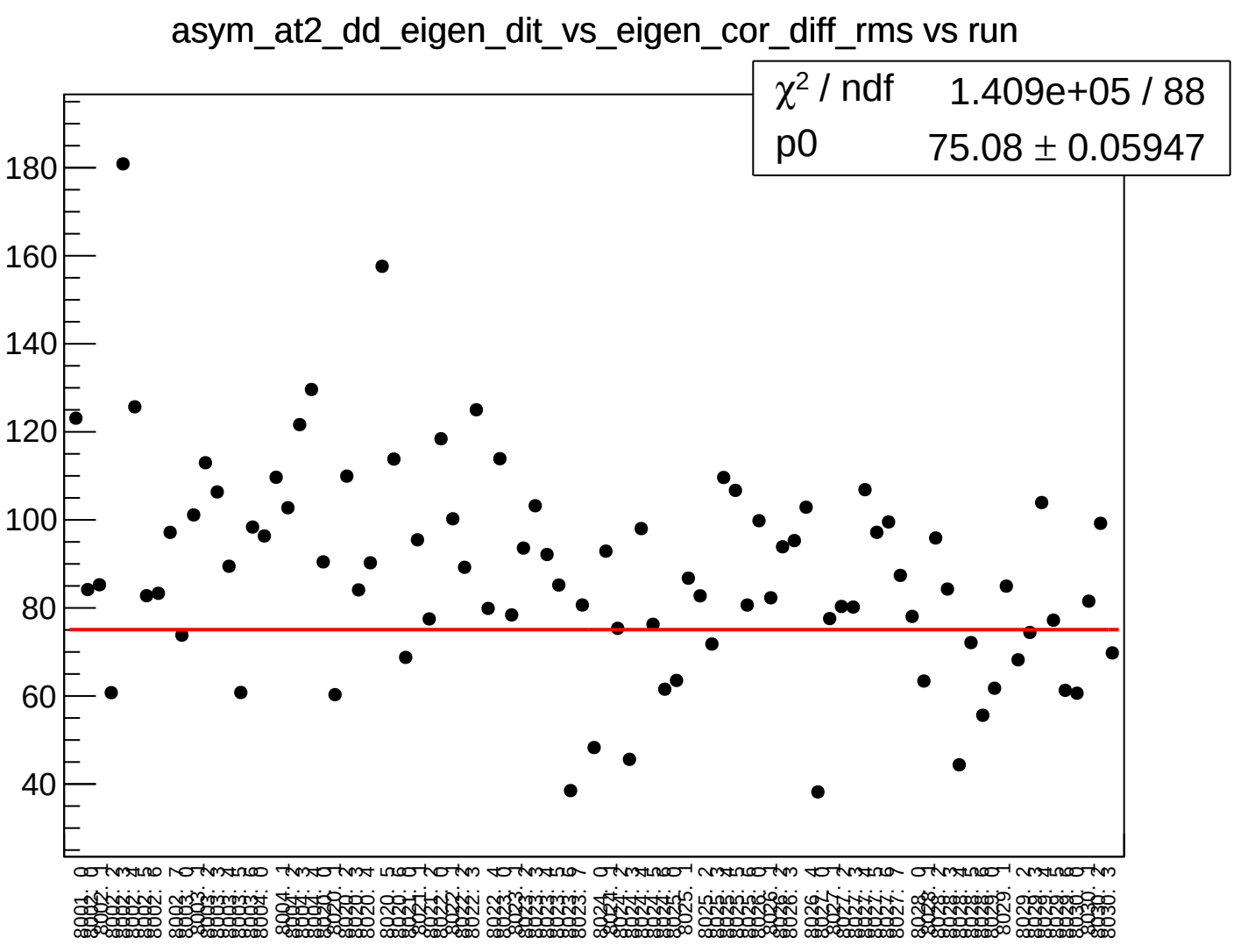

asym_at2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.919e+04 / 88
p0 0.003108 ± 2.431e−06
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025

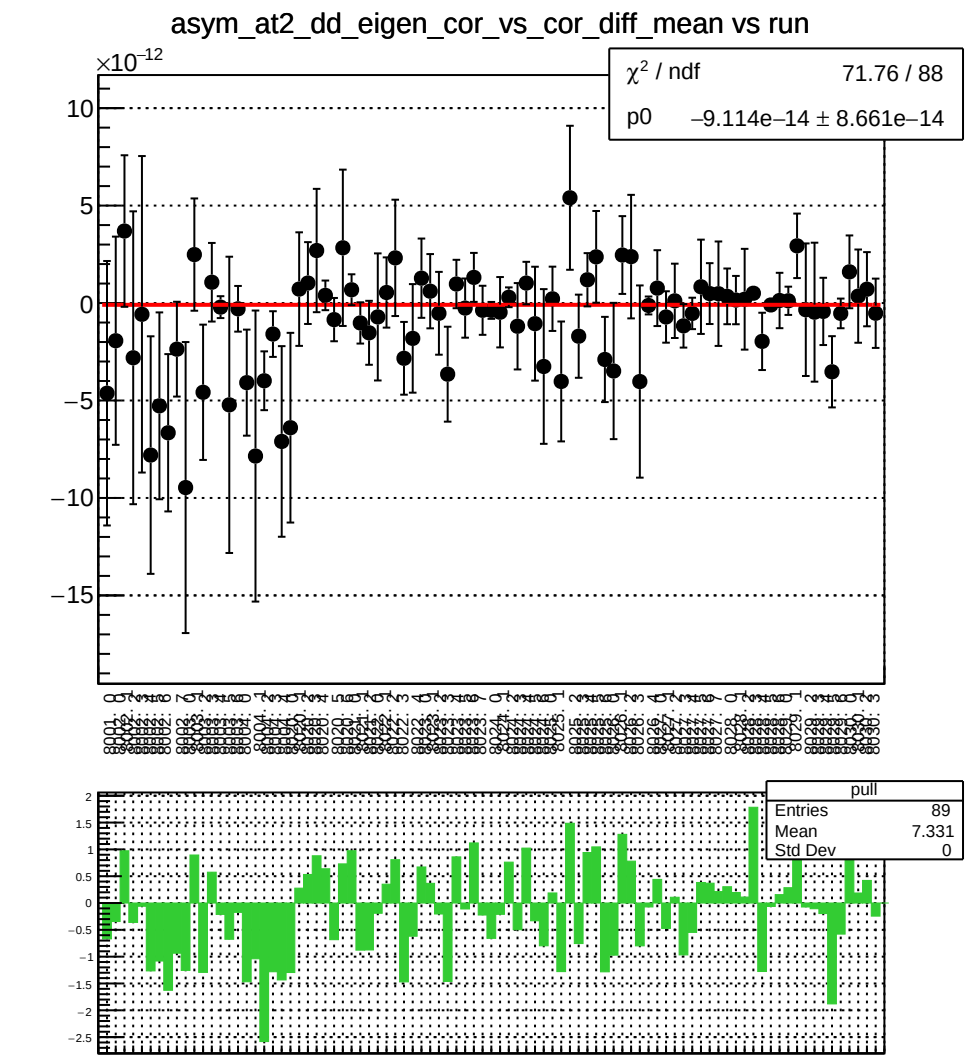

asym_at2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.72 / 88
p0 −0.03986 ± 0.0841
pull
Entries 89
Mean 117
Std Dev 0

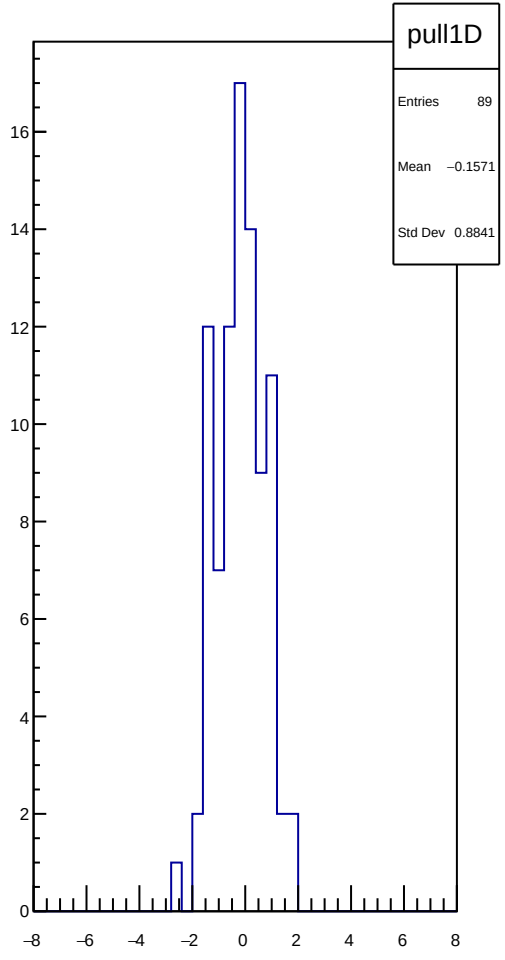

pull1D
Entries 89
Mean 0.03194
Std Dev 1.047

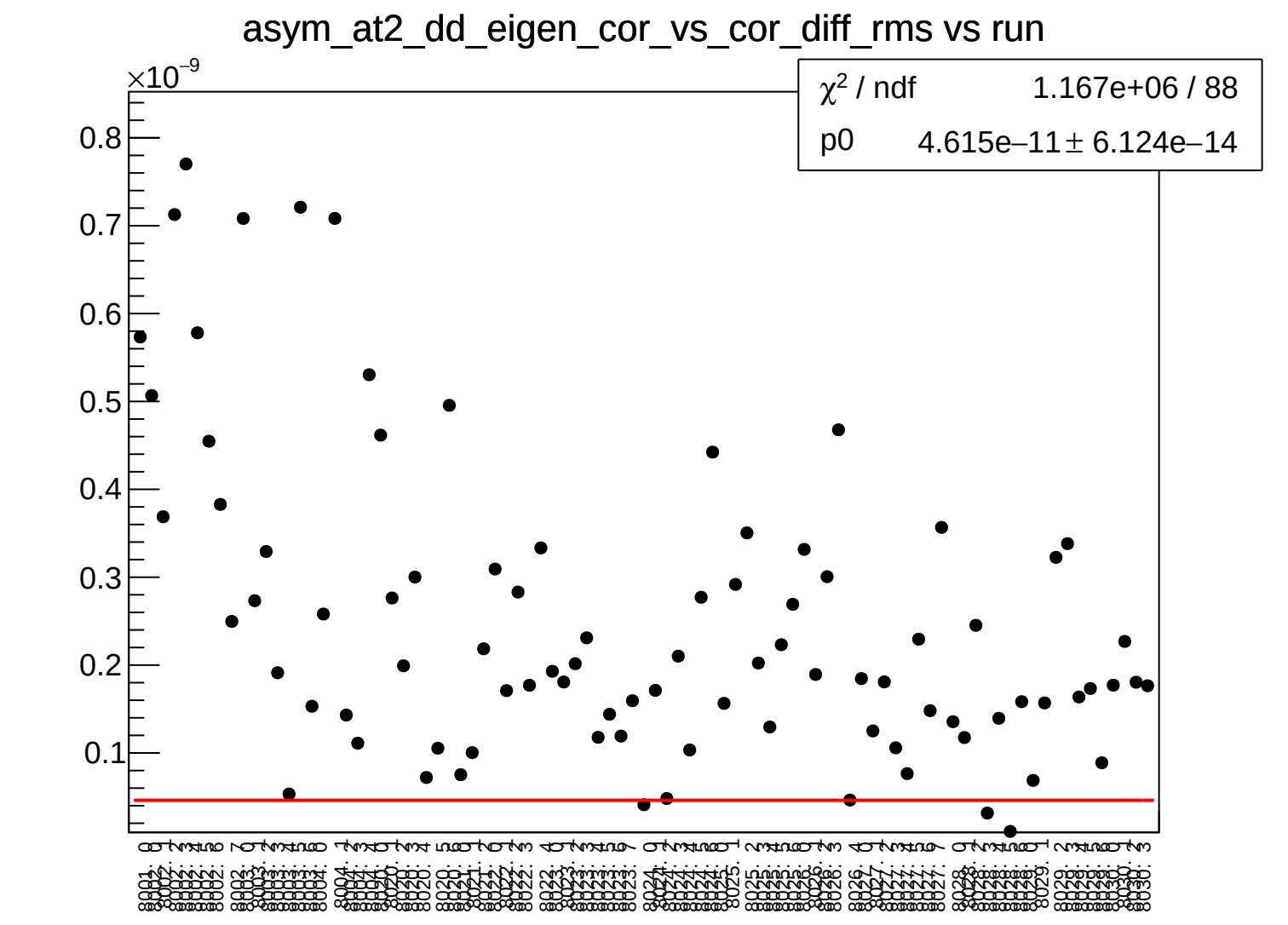

asym_at2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.409e+05 / 88
p0 75.08 ± 0.05947
180
160
140
120
100
80
60
40

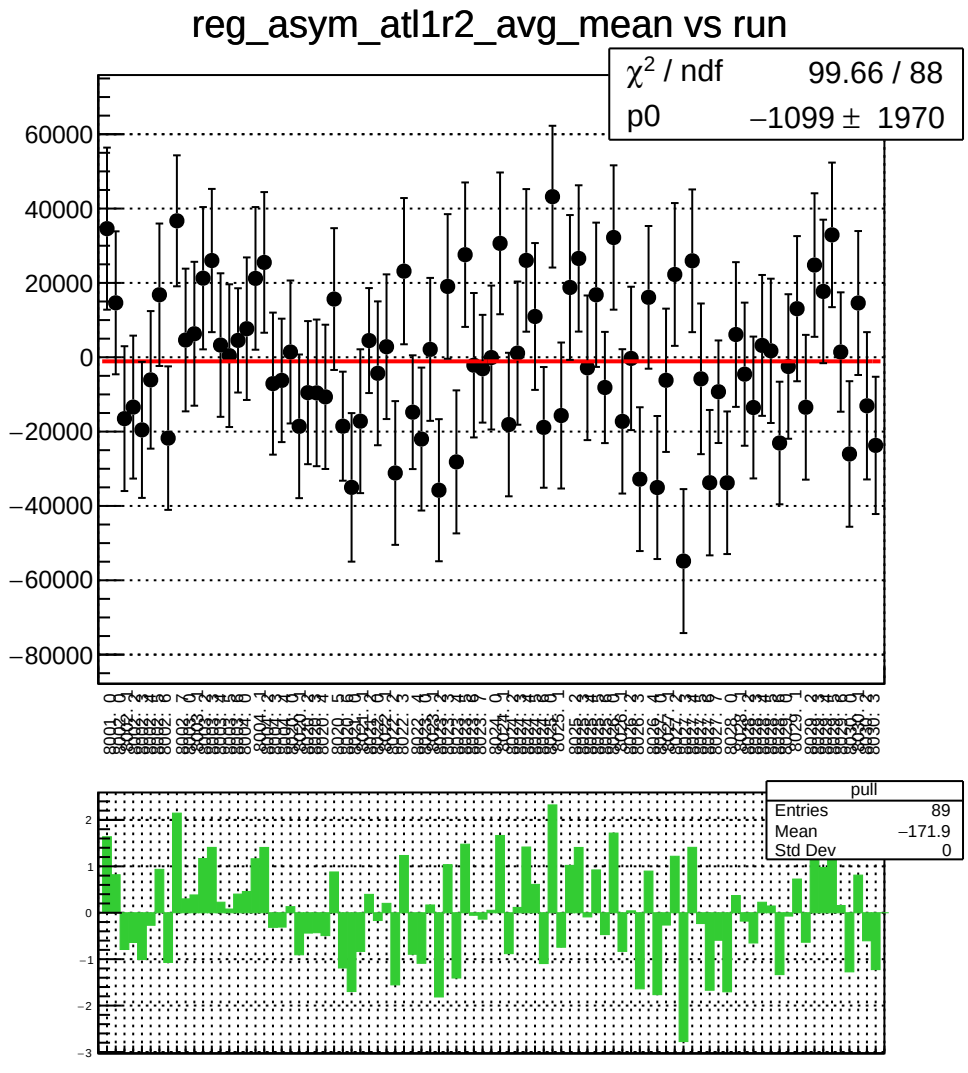

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.72 / 88
p0 −0.03986 ± 0.0841
pull
Entries 89
Mean 117
Std Dev 0
pull1D
Entries 89
Mean 0.03194
Std Dev 1.047

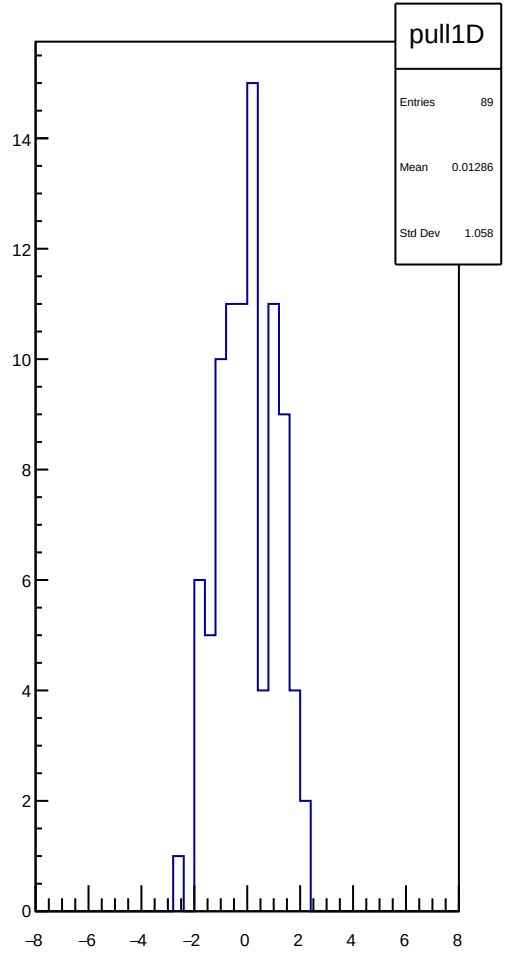

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.409e+05 / 88
p0 75.08 ± 0.05947
180
160
140
120
100
80
60
40

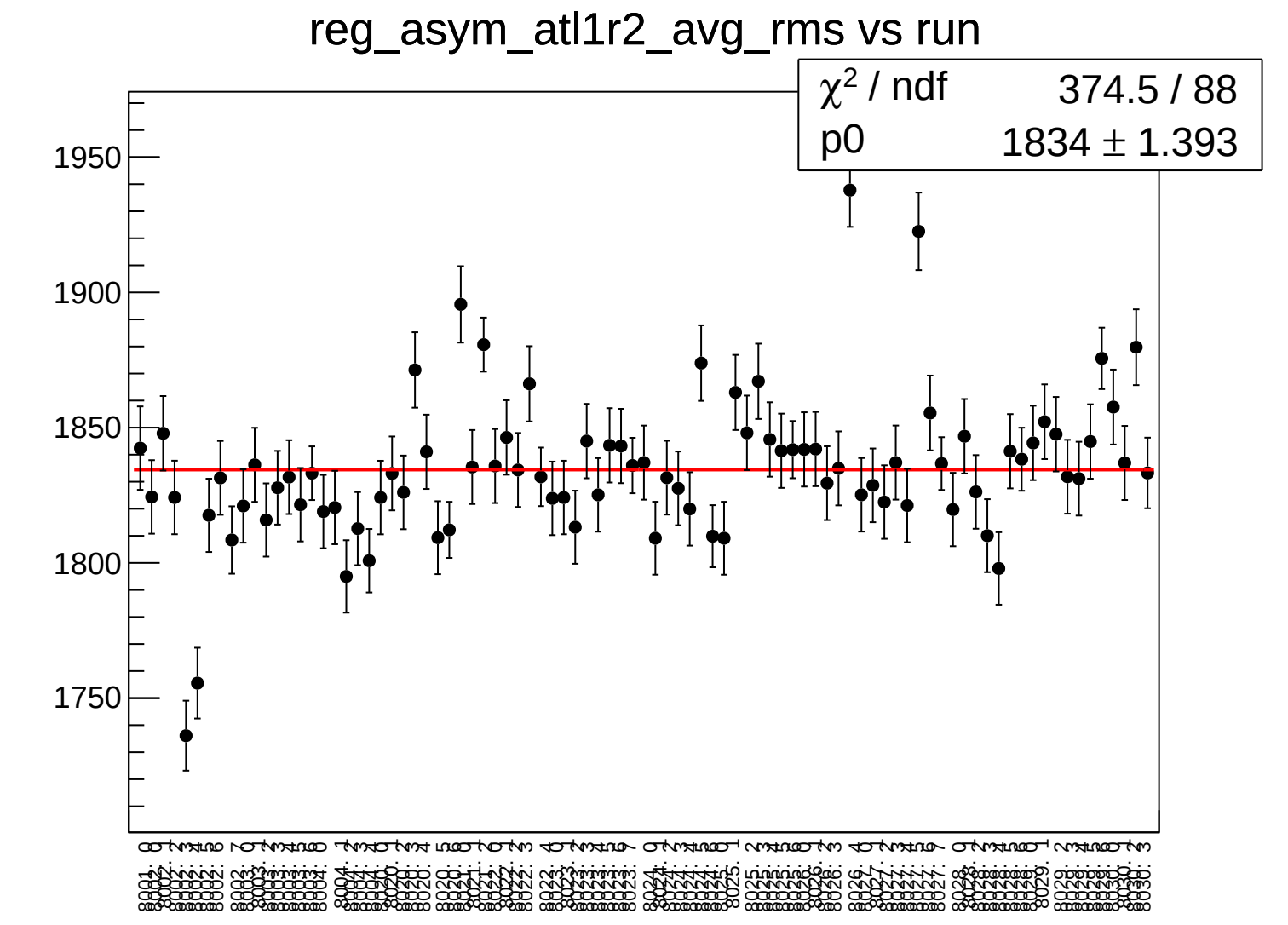

asym_at2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 71.76 / 88
p0 −9.114e−14 ± 8.661e−14
pull
Entries 89
Mean 7.331
Std Dev 0

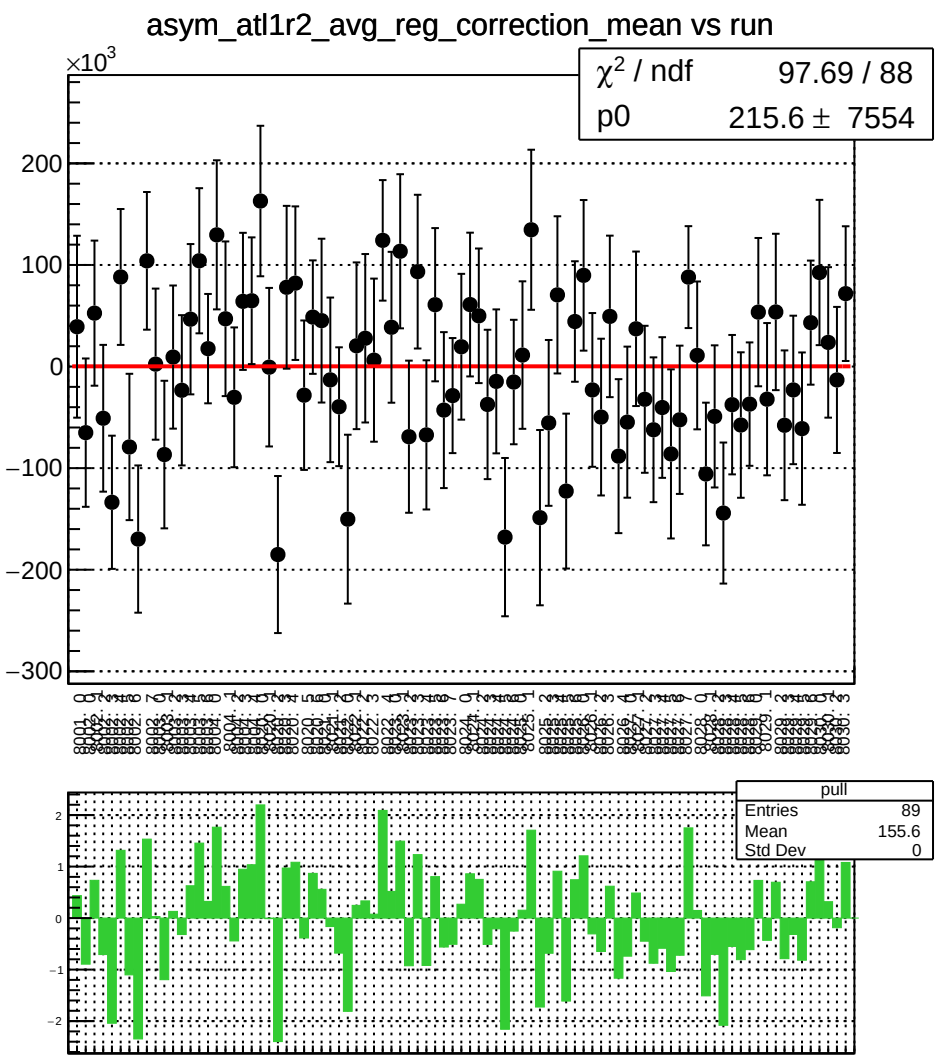

pull1D
Entries 89
Mean −0.1571
Std Dev 0.8841

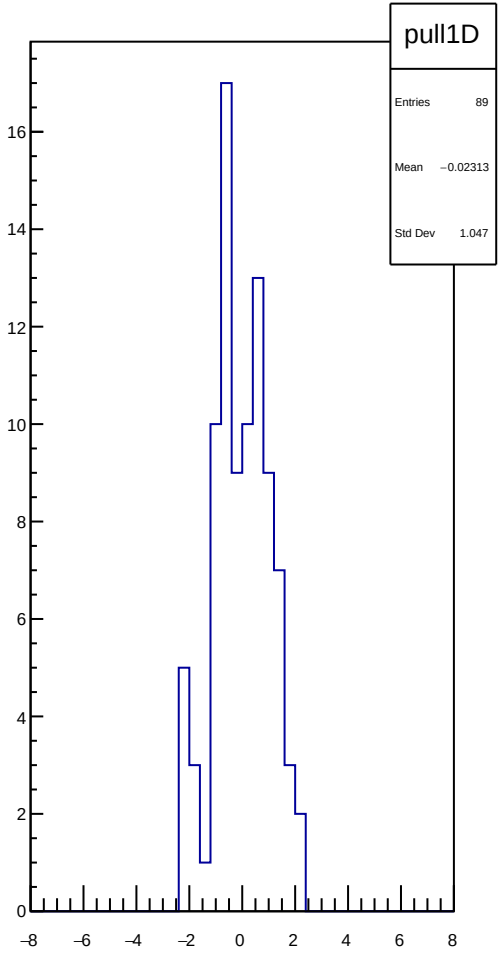

asym_at2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.167e+06 / 88
p0 4.615e−11 ± 6.124e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

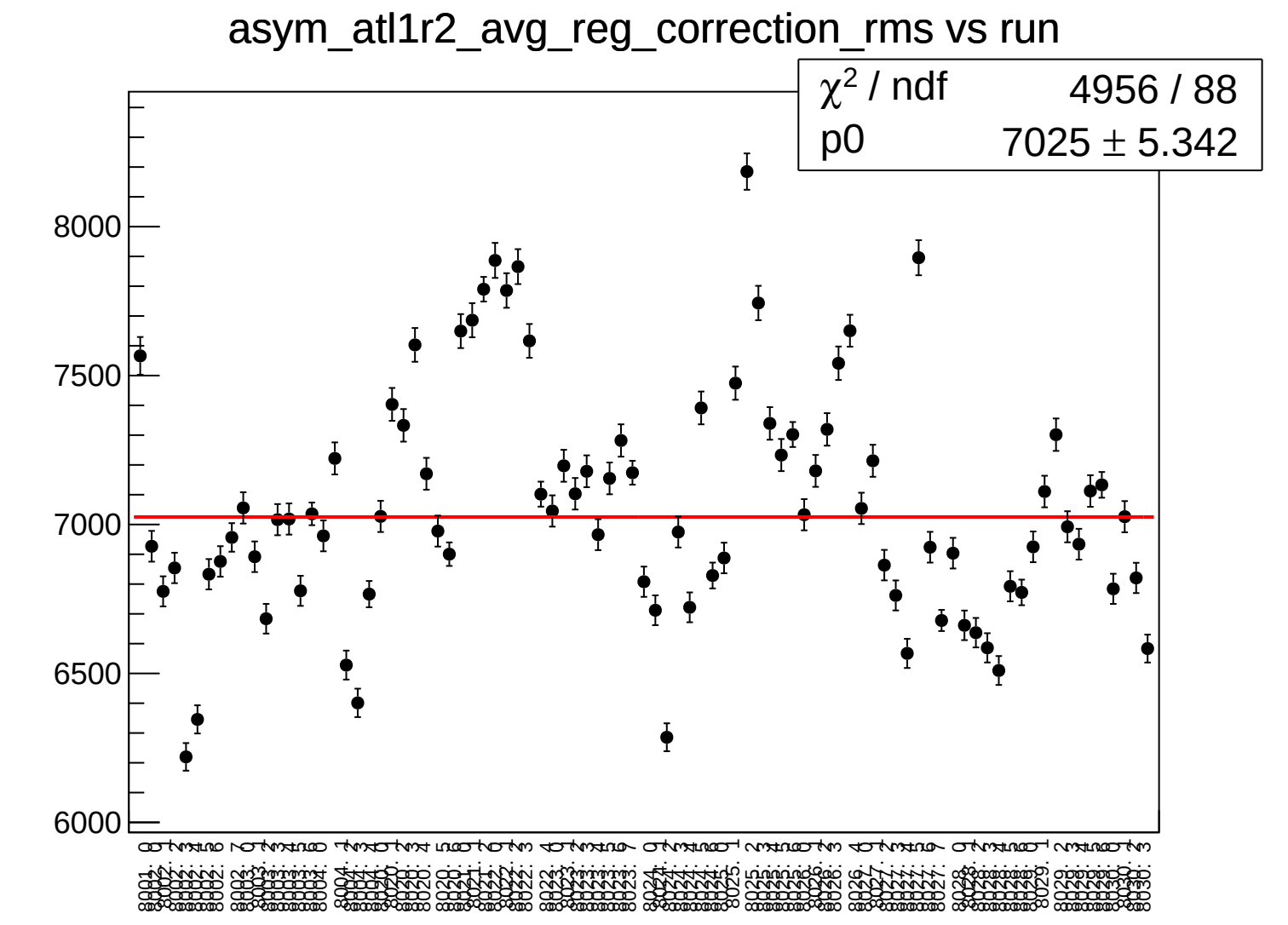

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 99.66 / 88
p0 −1099 ± 1970
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −171.9
Std Dev 0
2
1
0
−1
−2
−3

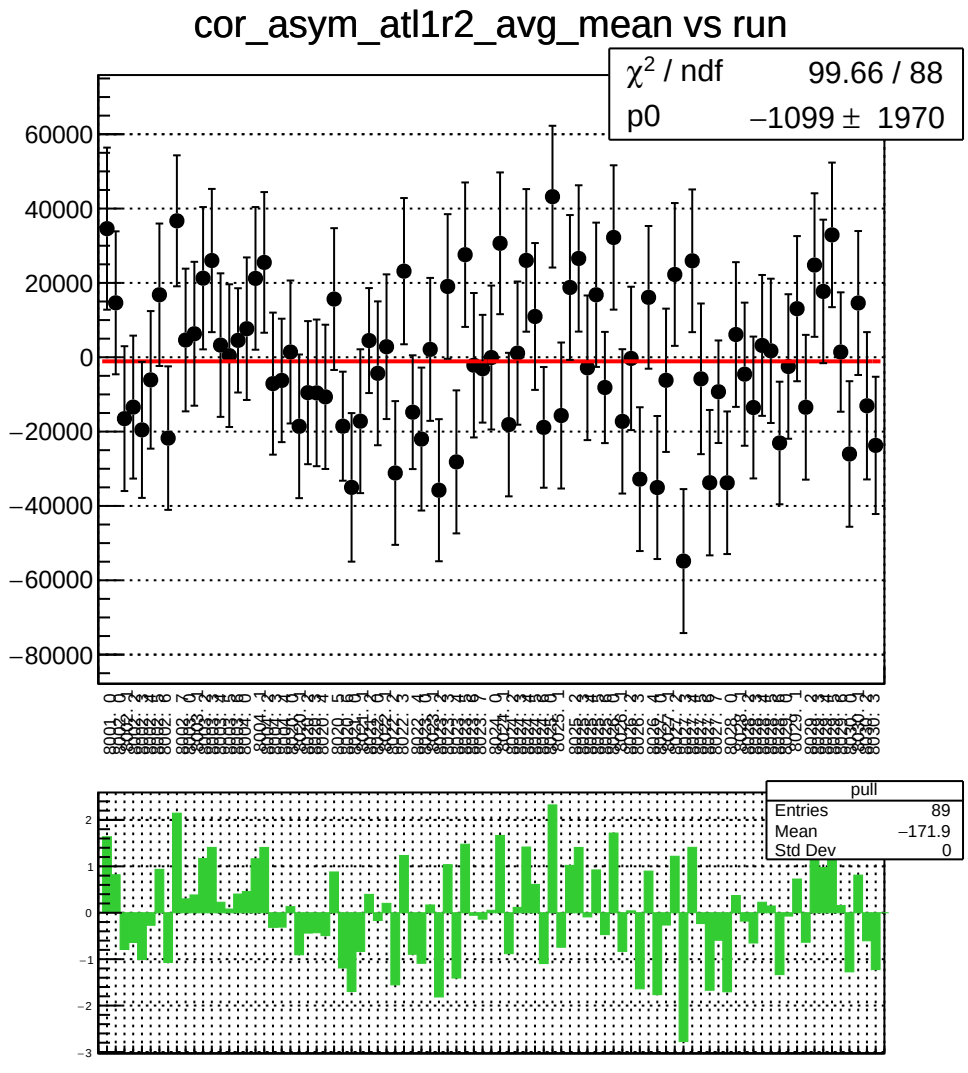

pull1D
Entries 89
Mean 0.01286
Std Dev 1.058
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

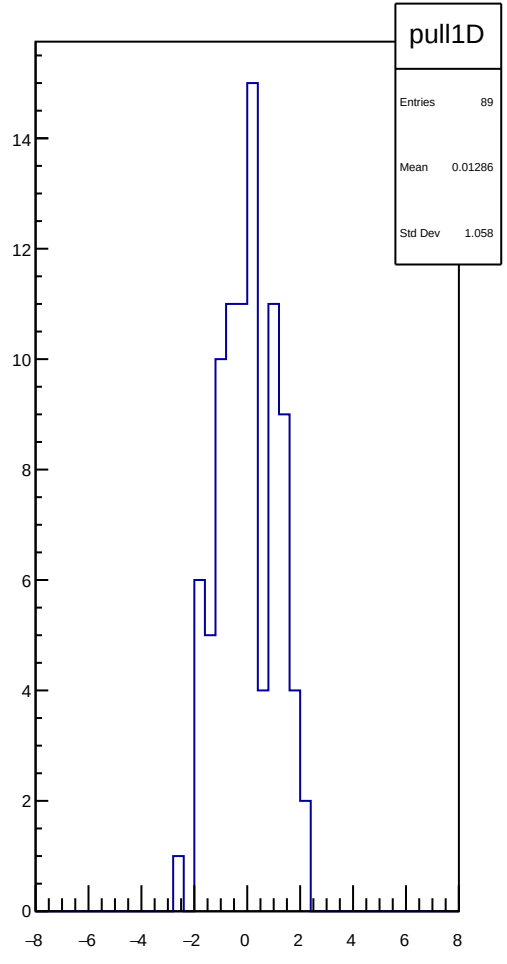

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 374.5 / 88
p0 1834 ± 1.393
1950
1900
1850
1800
1750

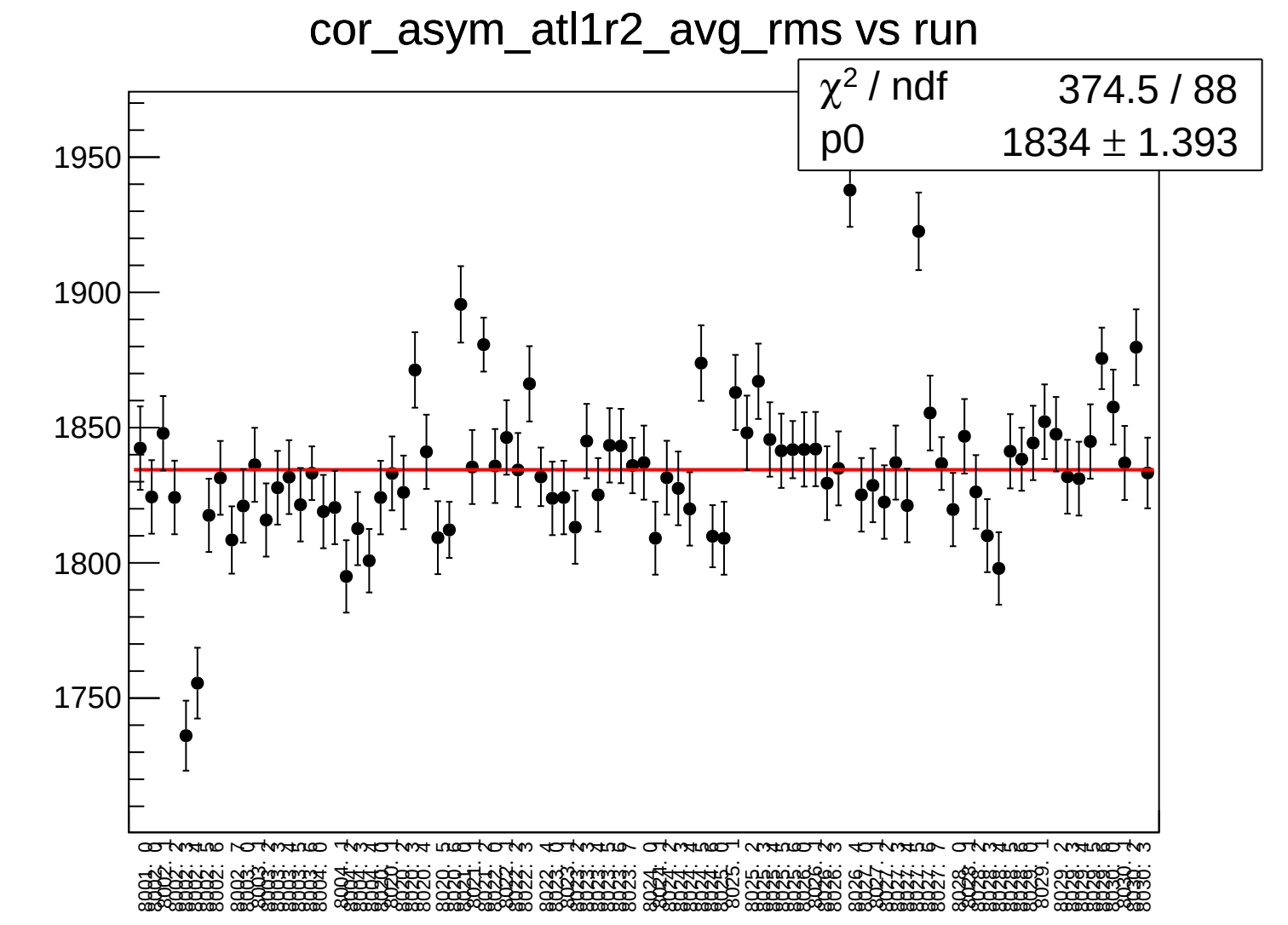

asym_atl1r2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 97.69 / 88
p0 215.6 ± 7554
200
100
0
−100
−200
−300
pull
Entries 89
Mean 155.6
Std Dev 0
2
1
0
−1
−2

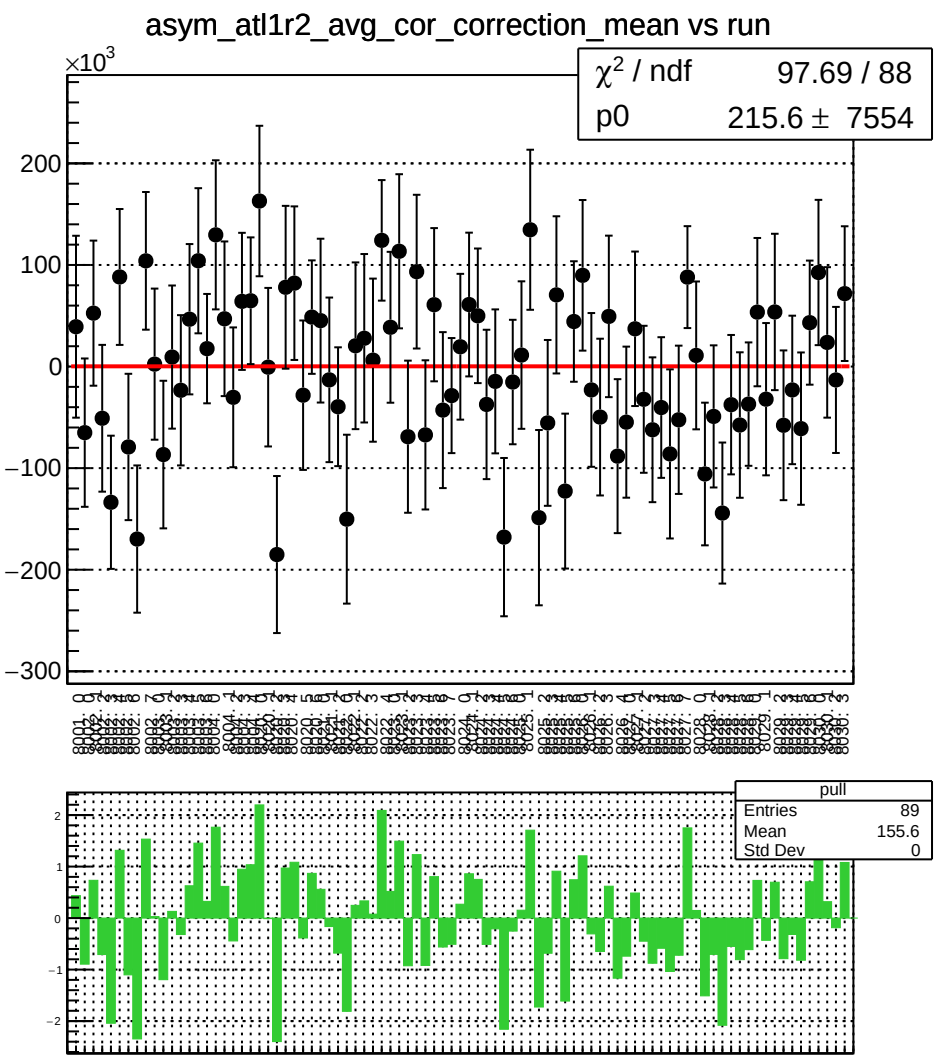

pull1D
Entries 89
Mean −0.02313
Std Dev 1.047
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

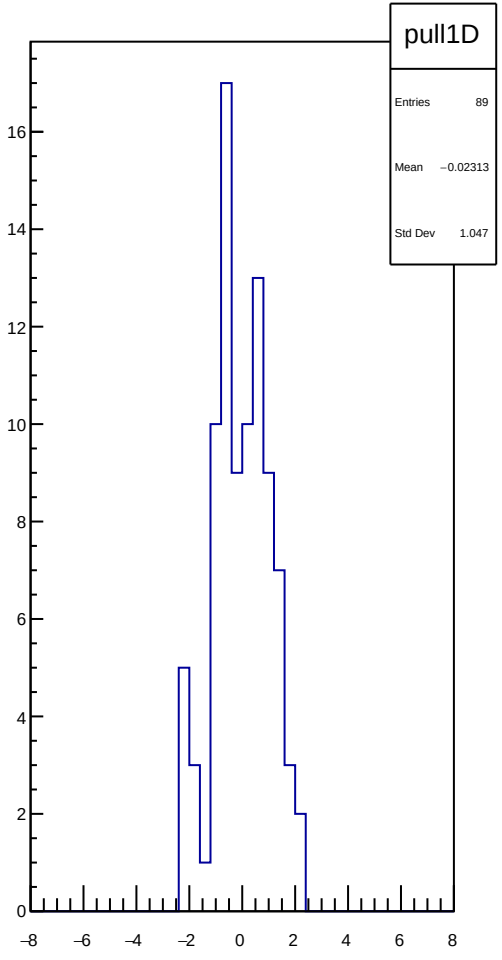

asym_atl1r2_avg_reg_correction_rms vs run
χ² / ndf 4956 / 88
p0 7025 ± 5.342
8000
7500
7000
6500
6000

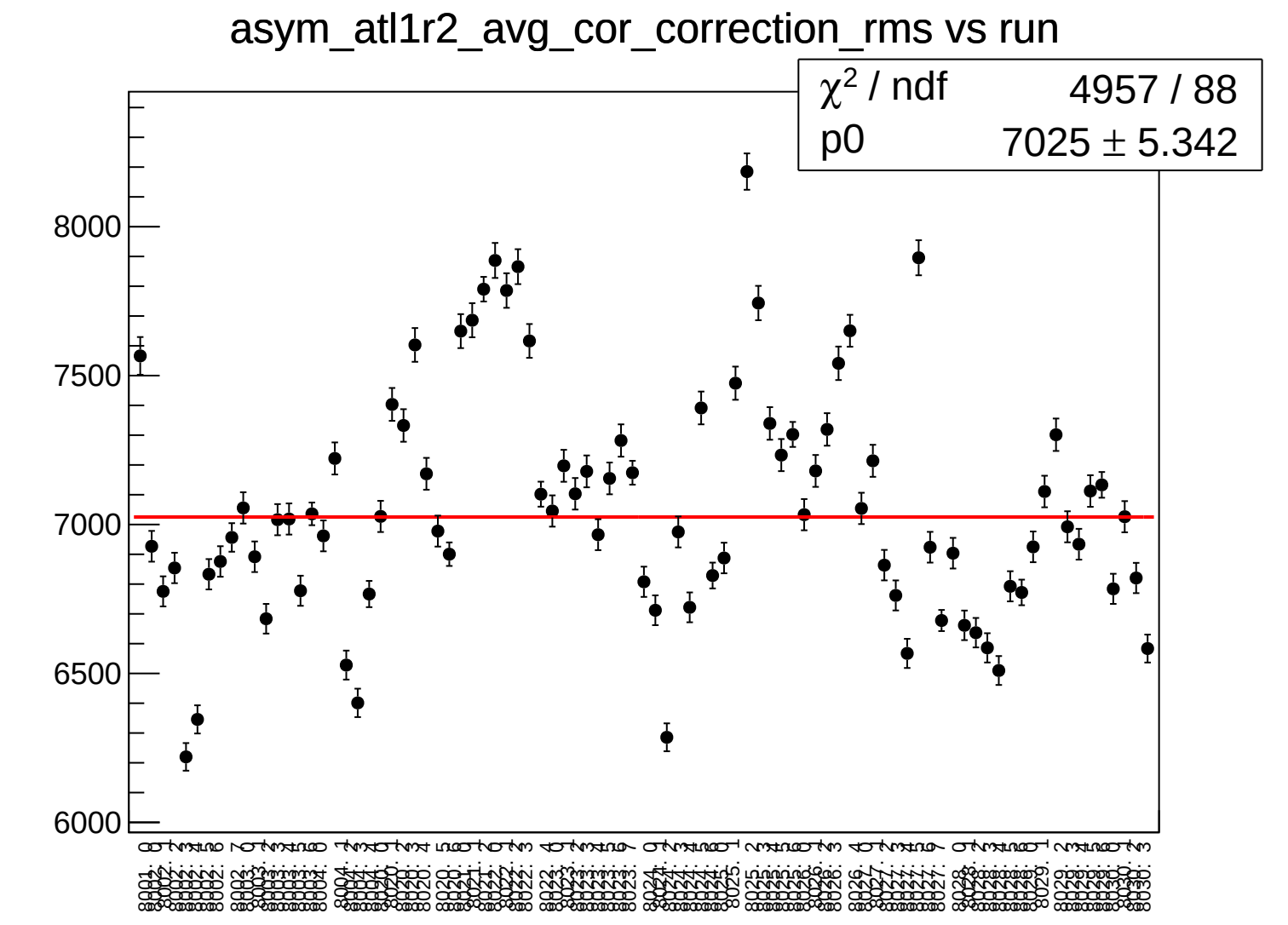

cor_asym_atl1r2_avg_mean vs run
χ² / ndf 99.66 / 88
p0 −1099 ± 1970
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −171.9
Std Dev 0
2
1
0
−1
−2
−3

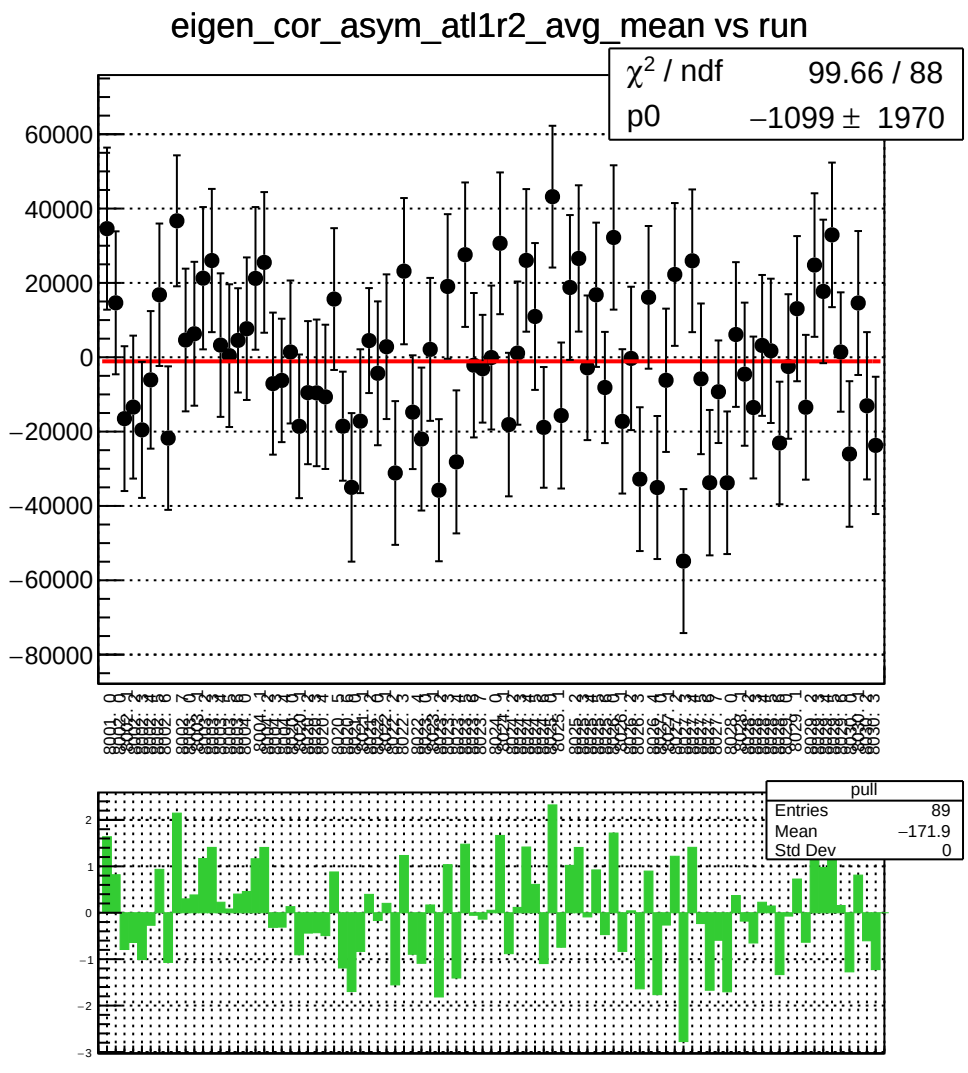

pull1D
Entries 89
Mean 0.01286
Std Dev 1.058
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

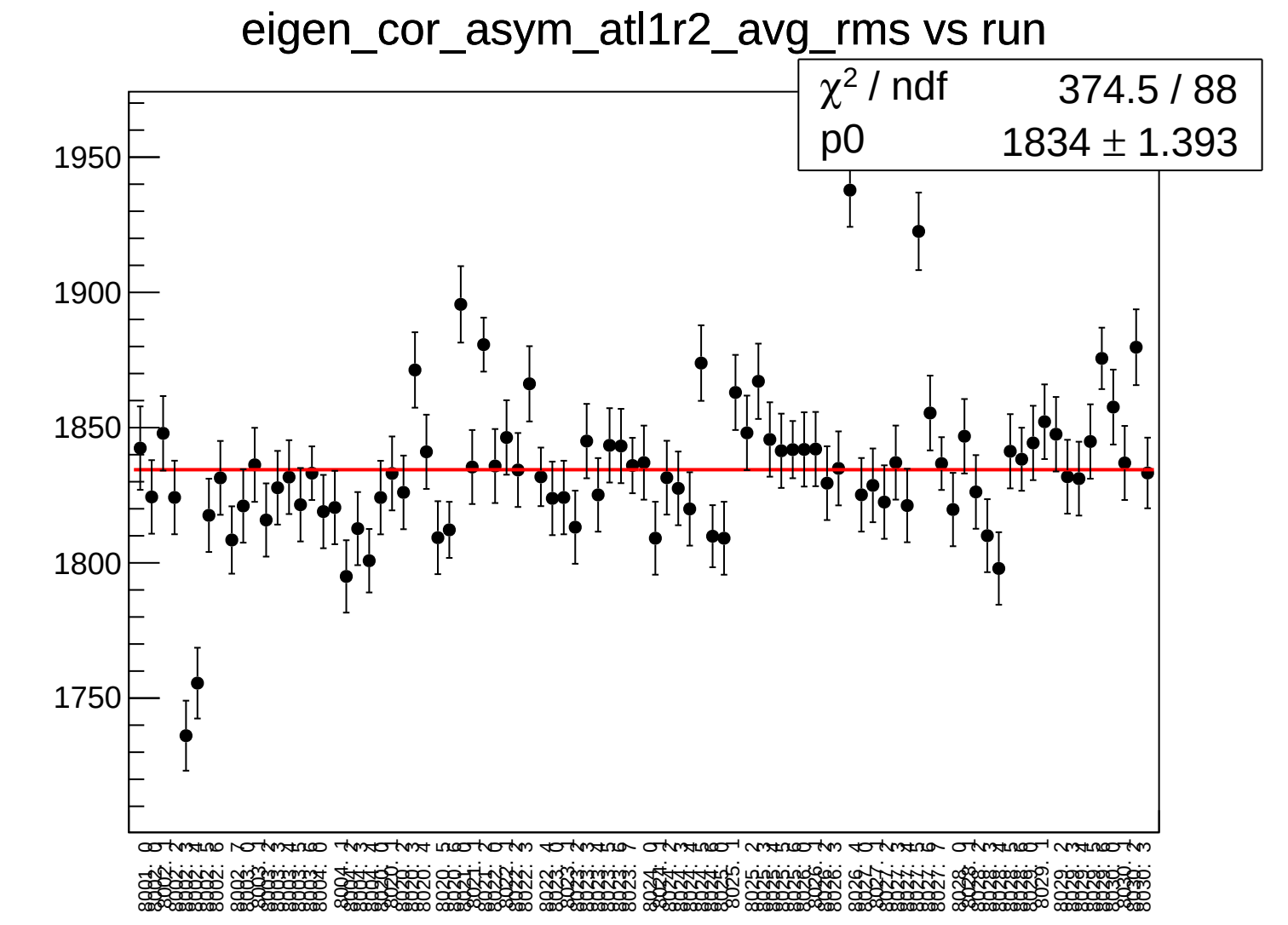

cor_asym_atl1r2_avg_rms vs run
χ² / ndf 374.5 / 88
p0 1834 ± 1.393
1950
1900
1850
1800
1750

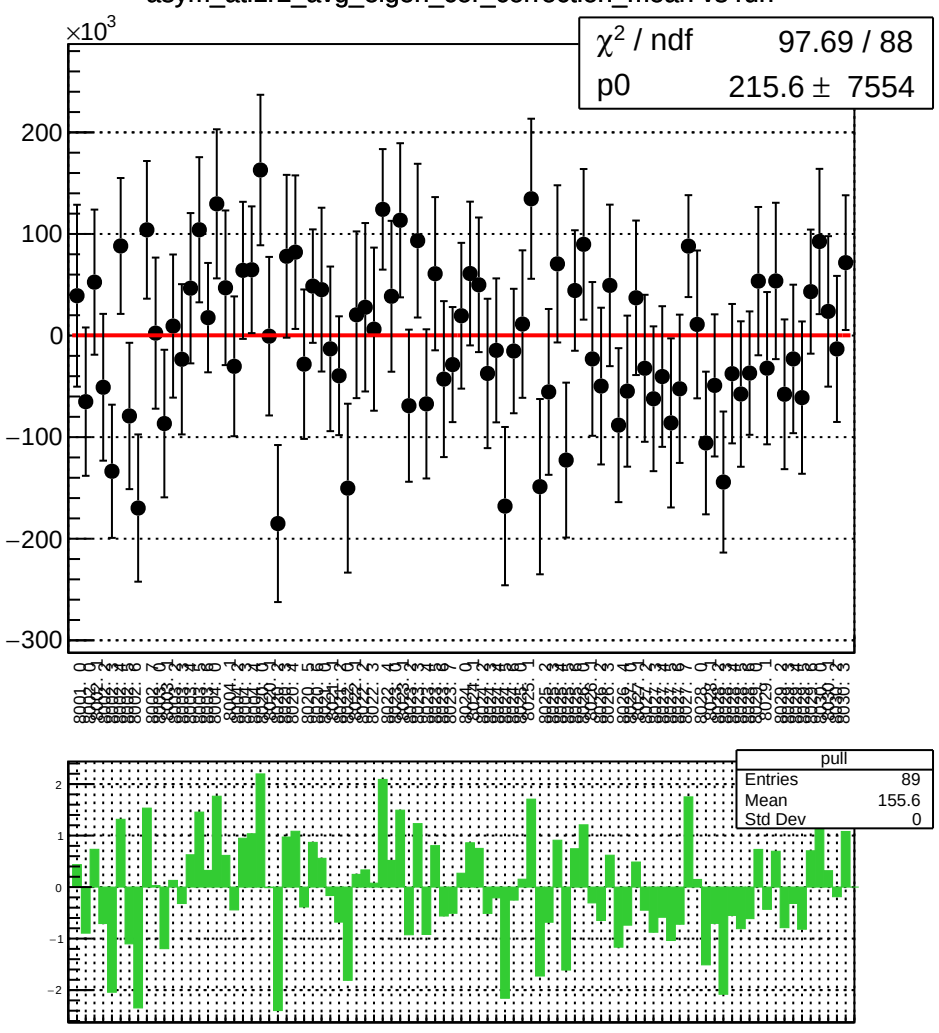

asym_atl1r2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 97.69 / 88
p0 215.6 ± 7554
200
100
0
−100
−200
−300
pull
Entries 89
Mean 155.6
Std Dev 0
2
1
0
−1
−2

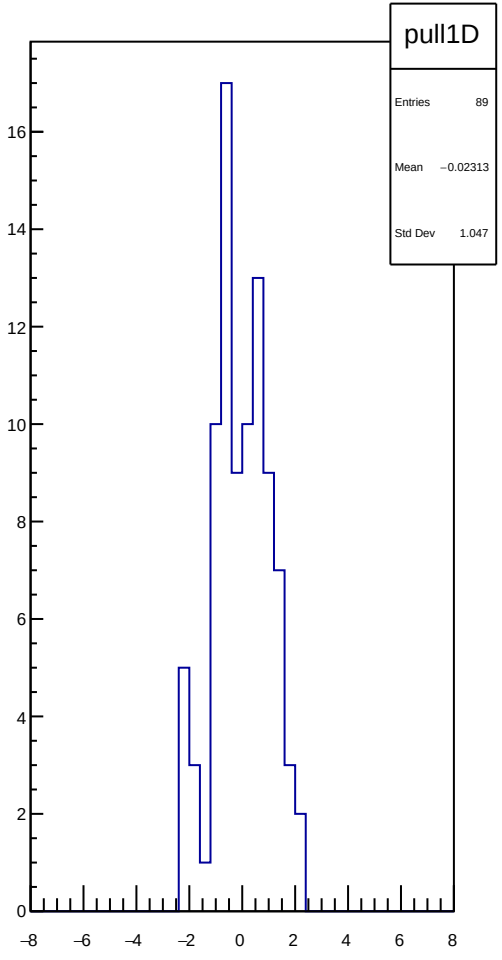

pull1D
Entries 89
Mean −0.02313
Std Dev 1.047
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

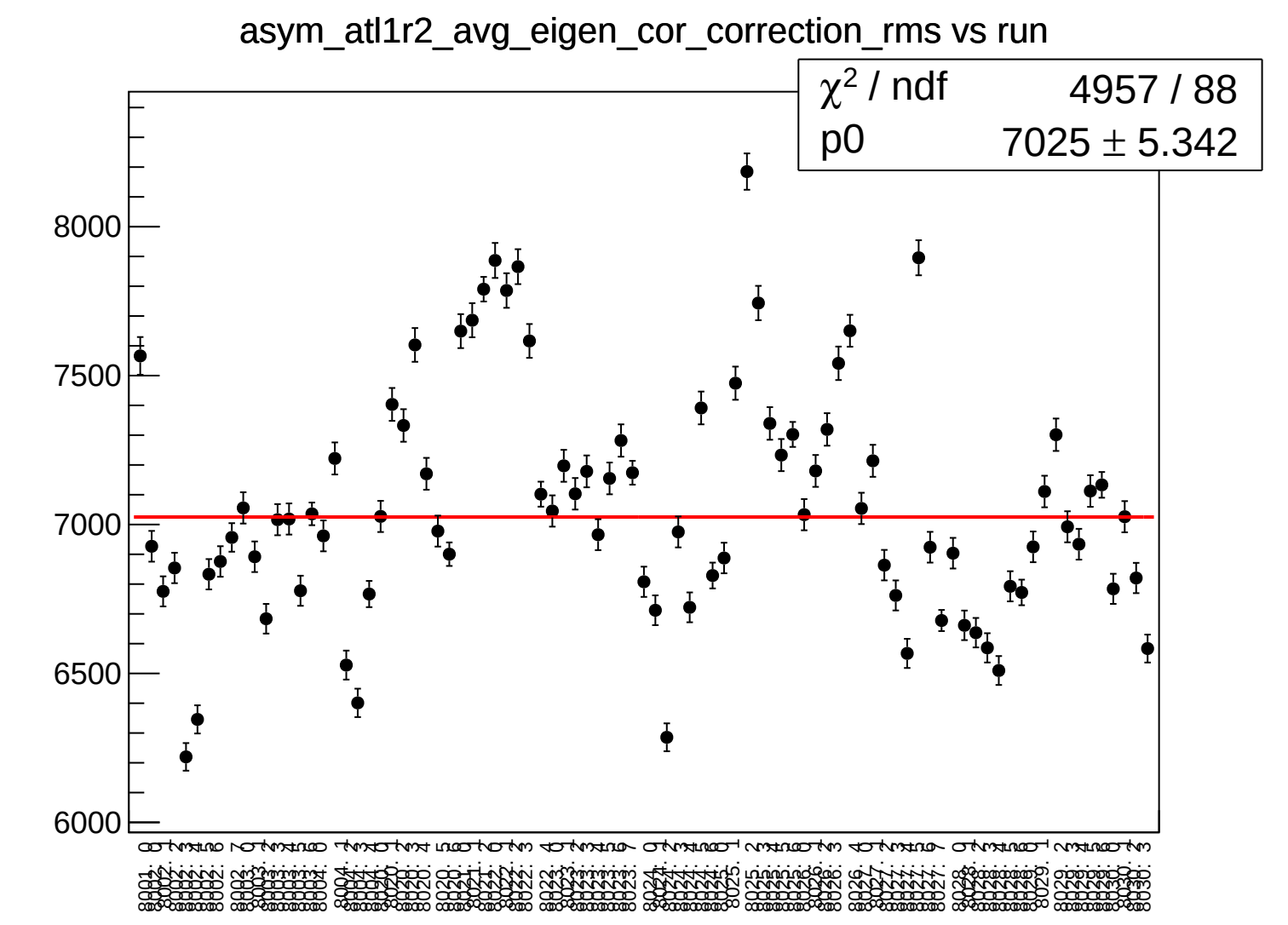

asym_atl1r2_avg_cor_correction_rms vs run
χ² / ndf 4957 / 88
p0 7025 ± 5.342
8000
7500
7000
6500
6000

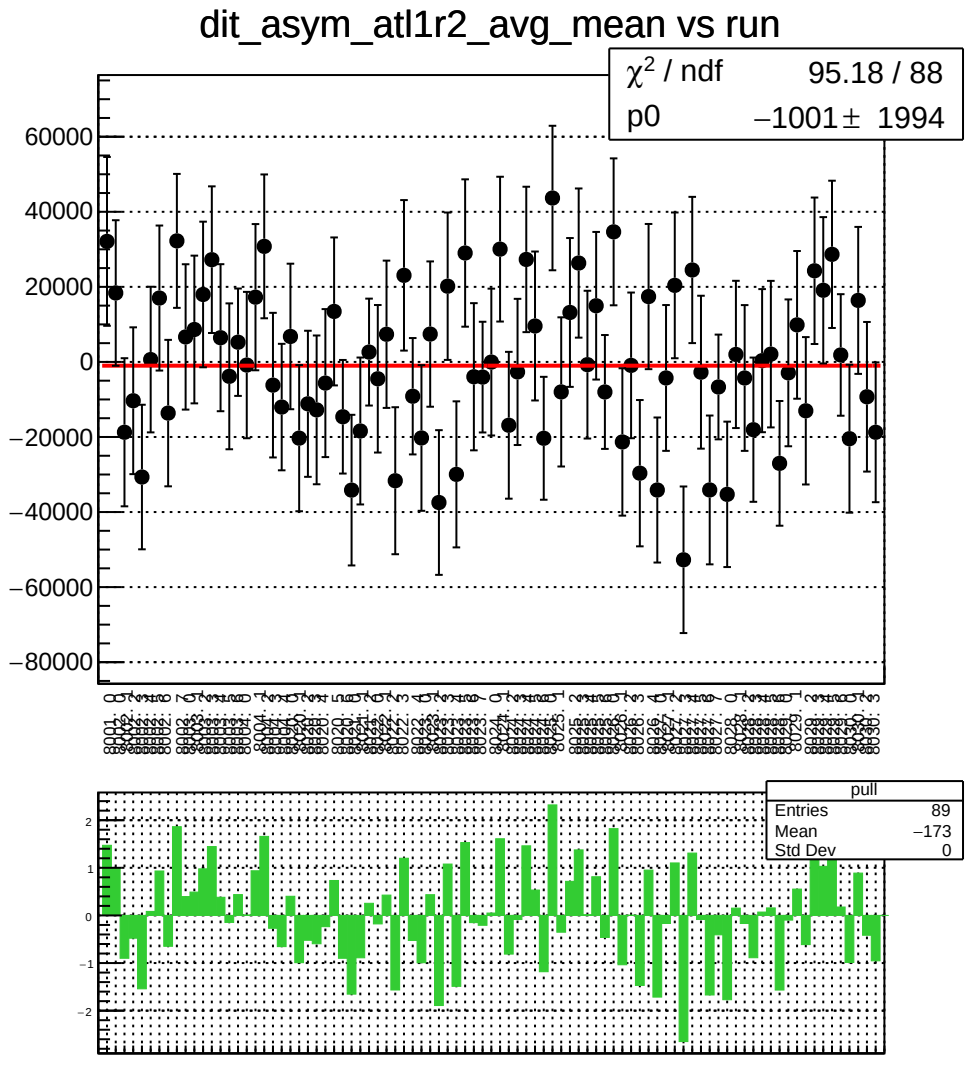

eigen_cor_asym_atl1r2_avg_mean vs run
χ² / ndf 99.66 / 88
p0 −1099 ± 1970
pull
Entries 89
Mean −171.9
Std Dev 0
pull1D
Entries 89
Mean 0.01286
Std Dev 1.058

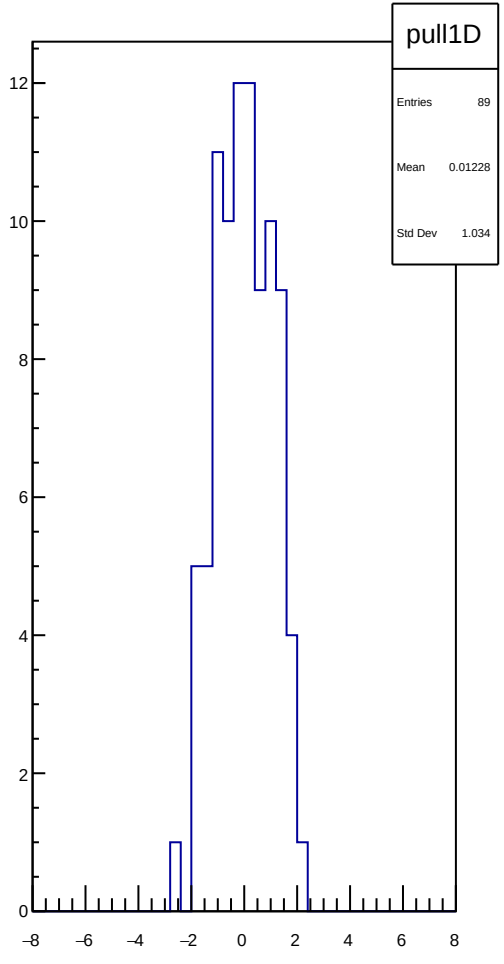

eigen_cor_asym_atl1r2_avg_rms vs run
χ^2 / ndf 374.5 / 88
p0 1834 ± 1.393
1950
1900
1850
1800
1750

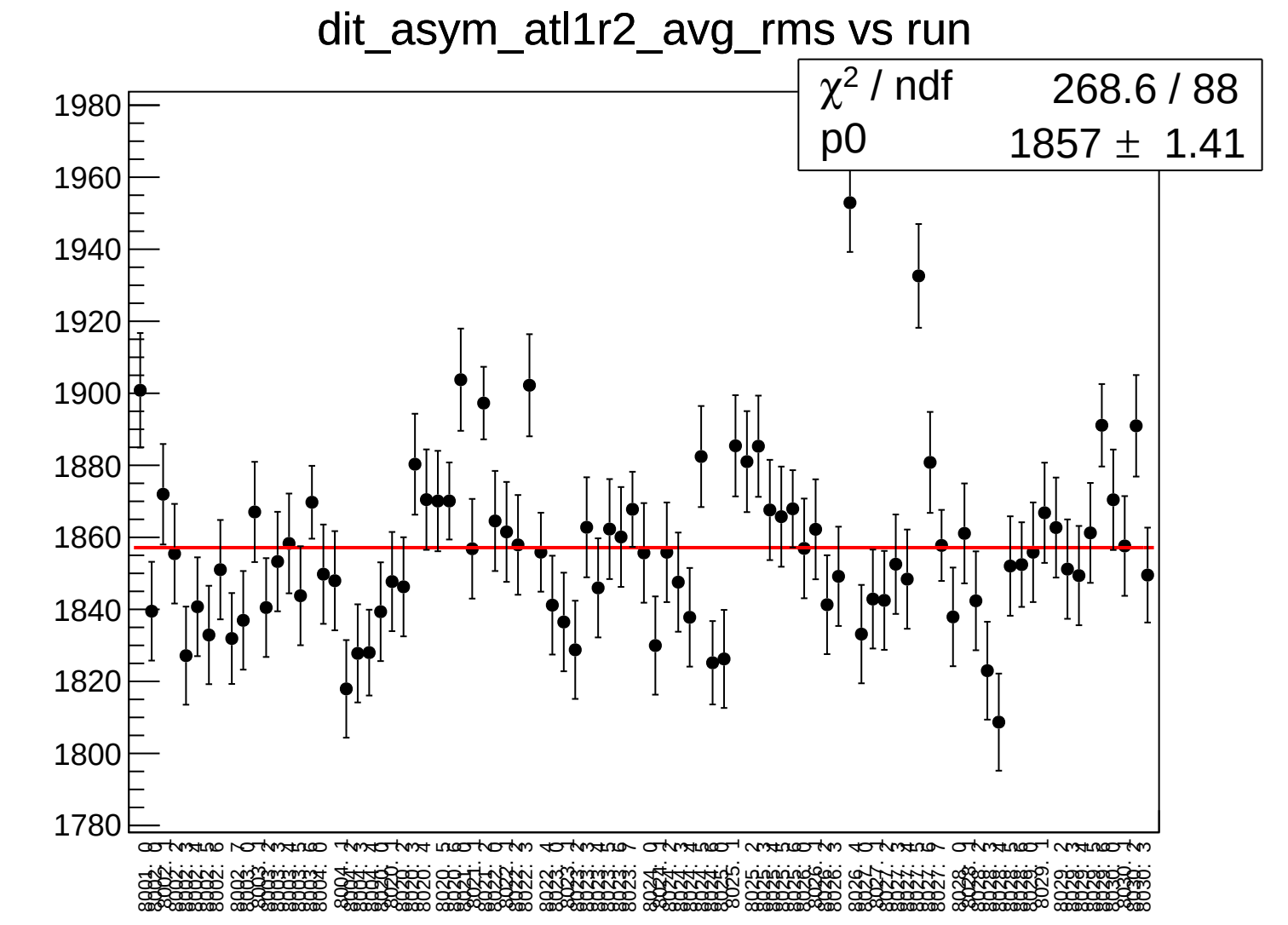

asym_atl1r2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 97.69 / 88
p0 215.6 ± 7554
200
100
0
−100
−200
−300
pull
Entries 89
Mean 155.6
Std Dev 0
2
1
0
−1
−2

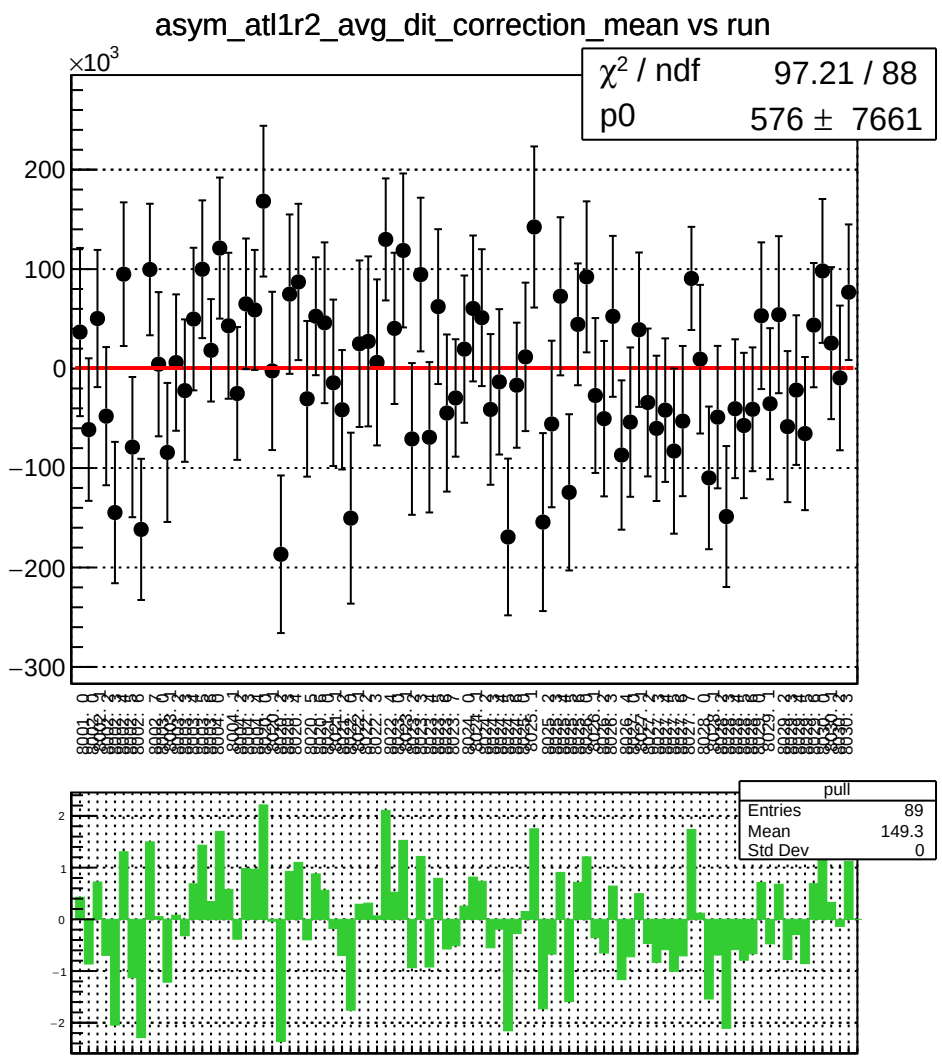

pull1D
Entries 89
Mean −0.02313
Std Dev 1.047
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

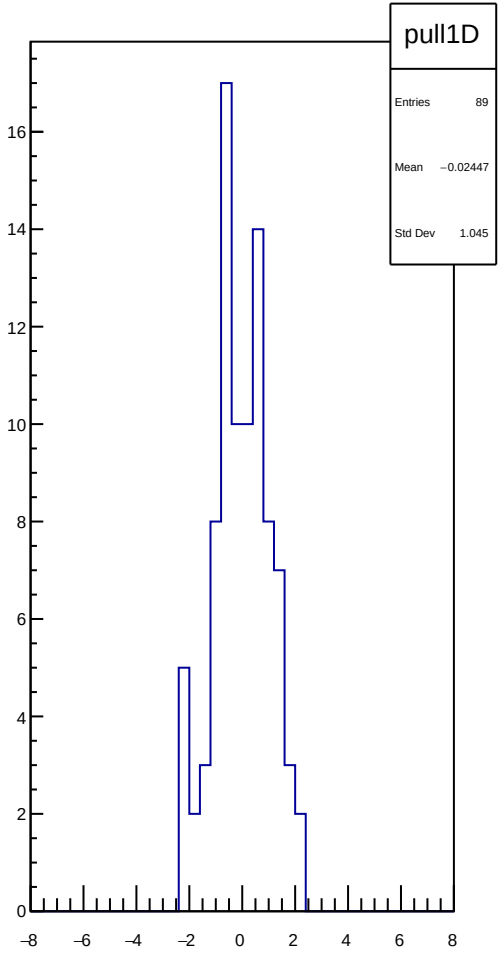

asym_atl1r2_avg_eigen_cor_correction_rms vs run
χ² / ndf 4957 / 88
p0 7025 ± 5.342
8000
7500
7000
6500
6000

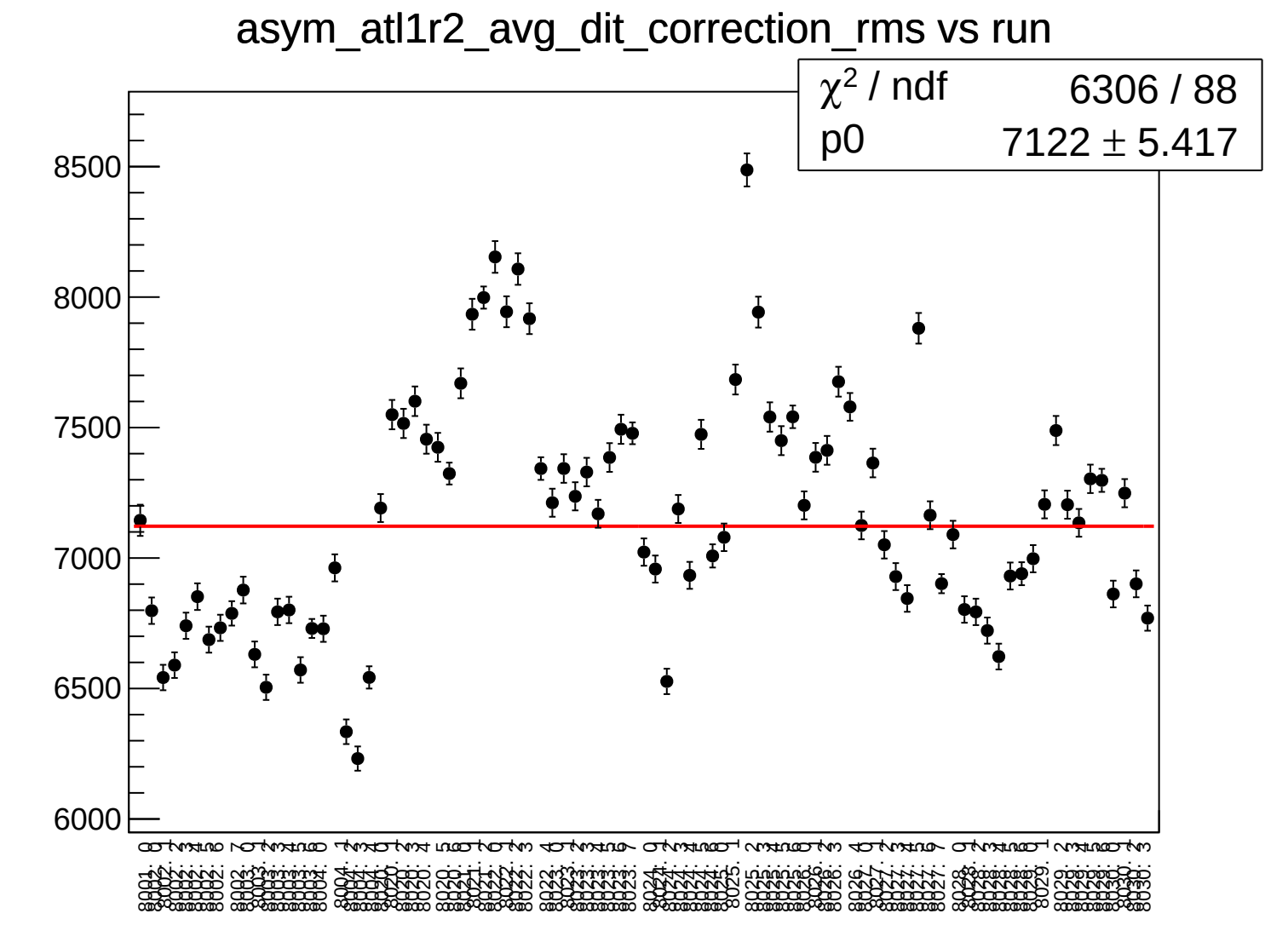

dit_asym_atl1r2_avg_mean vs run
χ² / ndf 95.18 / 88
p0 −1001 ± 1994
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −173
Std Dev 0
2
1
0
−1
−2

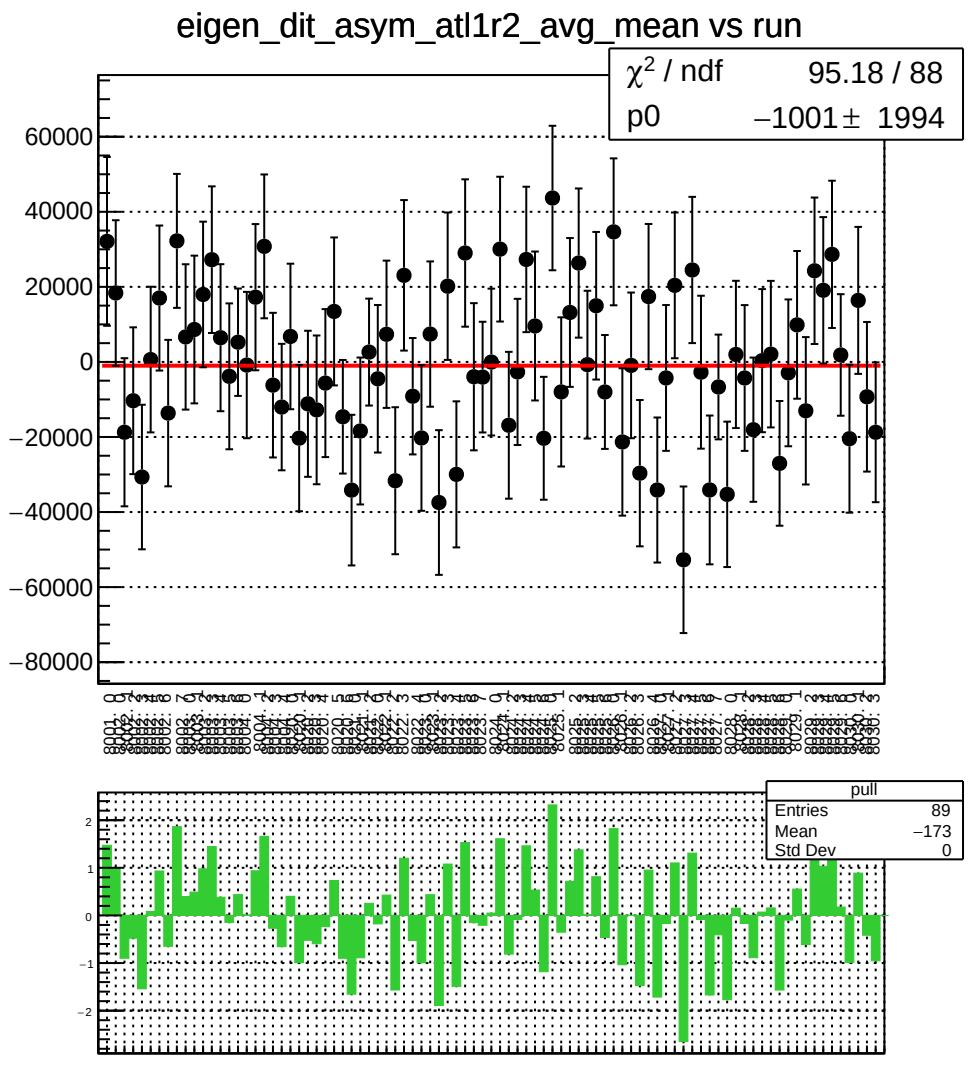

pull1D
Entries 89
Mean 0.01228
Std Dev 1.034
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

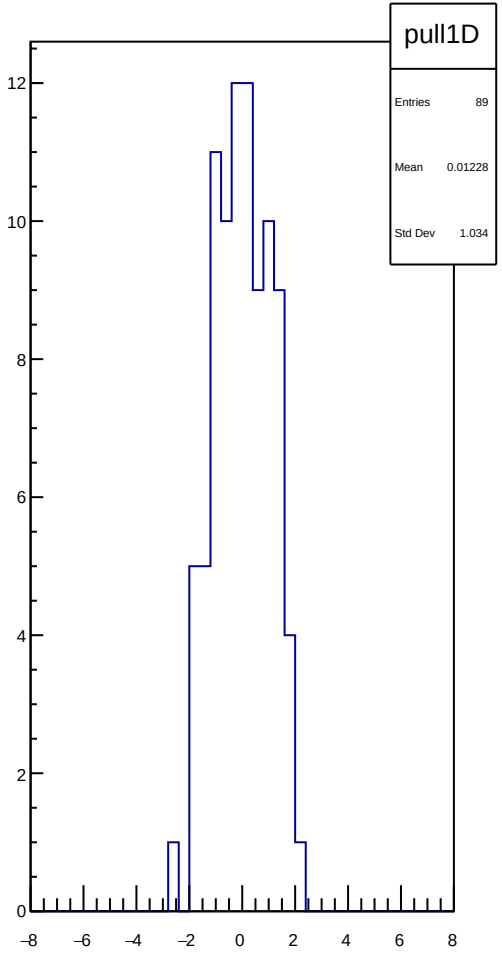

dit_asym_atl1r2_avg_rms vs run
χ² / ndf 268.6 / 88
p0 1857 ± 1.41
1980
1960
1940
1920
1900
1880
1860
1840
1820
1800
1780

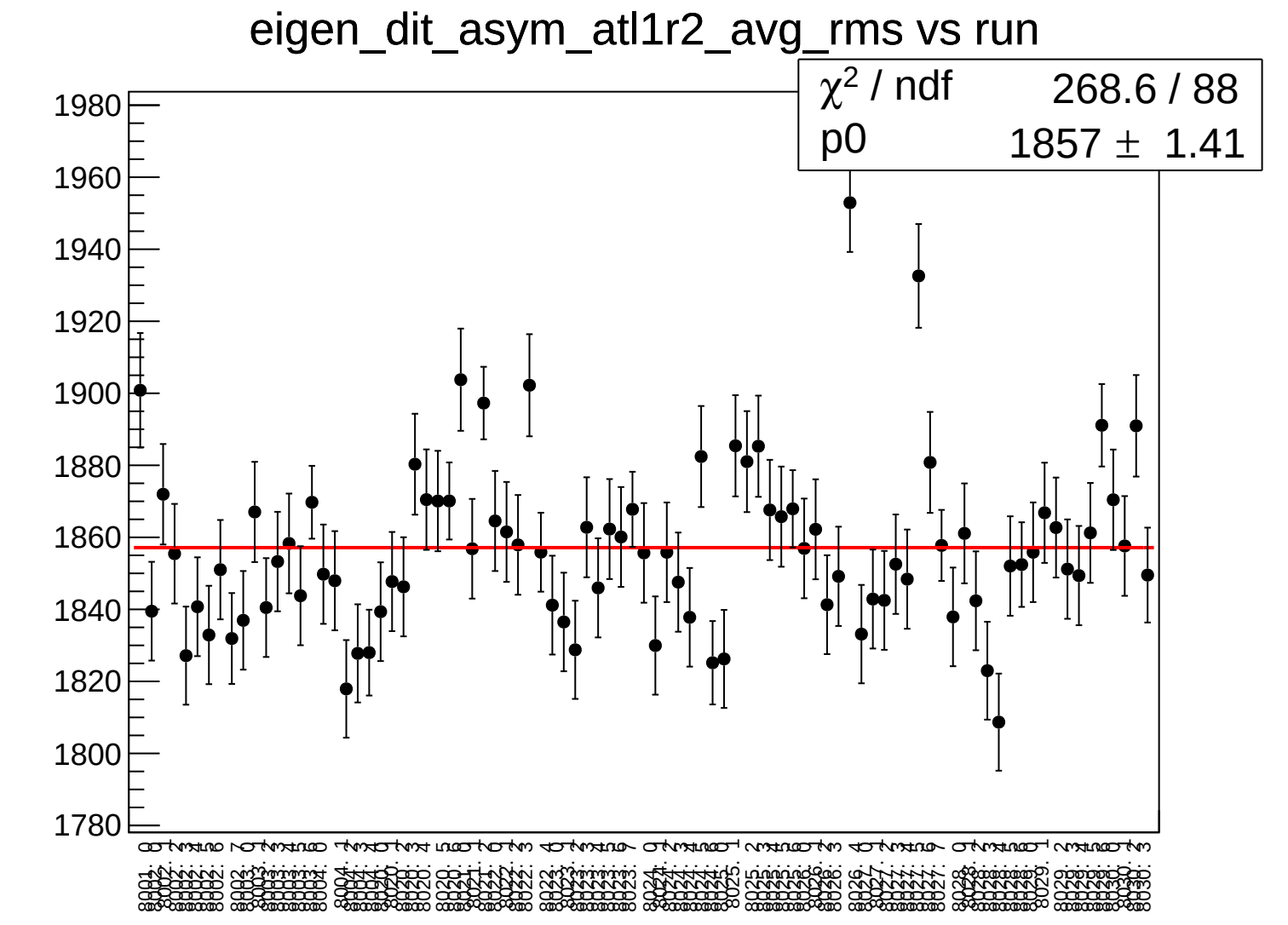

asym_atl1r2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 97.21 / 88
p0 576 ± 7661
200
100
0
−100
−200
−300
pull
Entries 89
Mean 149.3
Std Dev 0
2
1
0
−1
−2

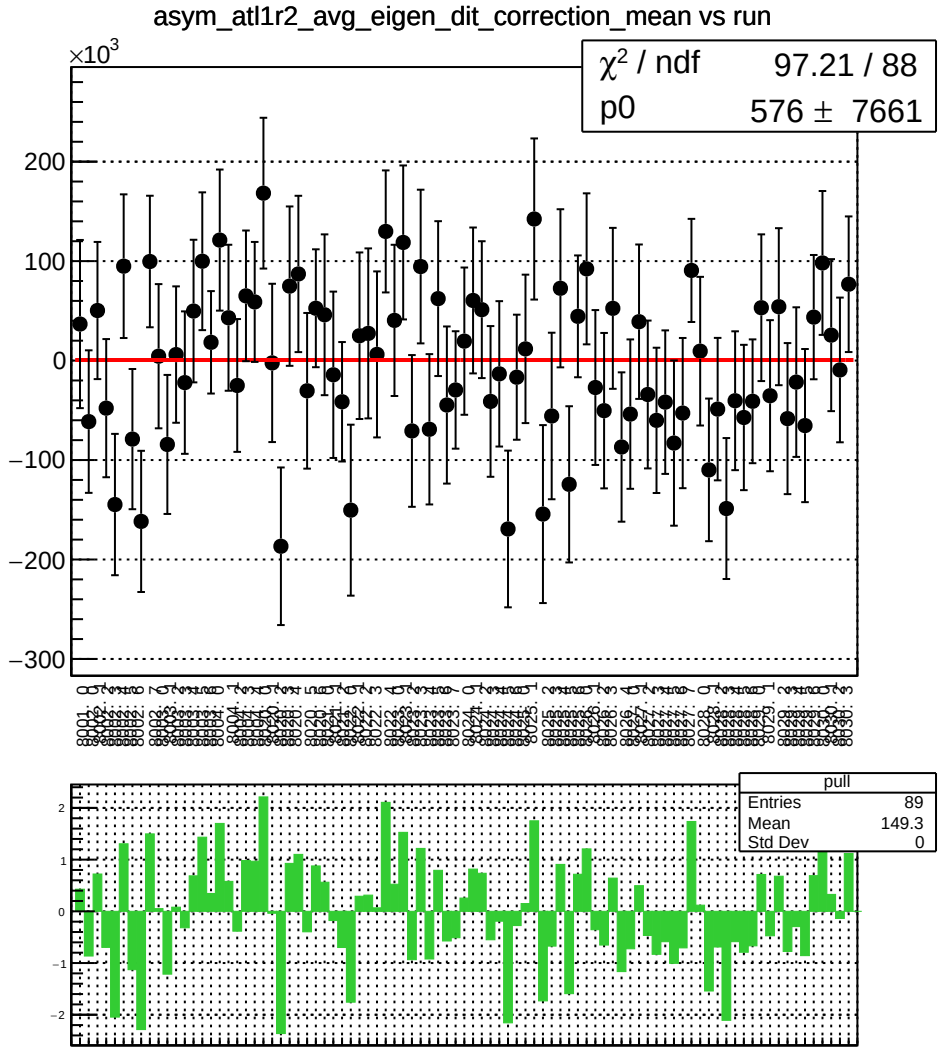

pull1D
Entries 89
Mean −0.02447
Std Dev 1.045
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

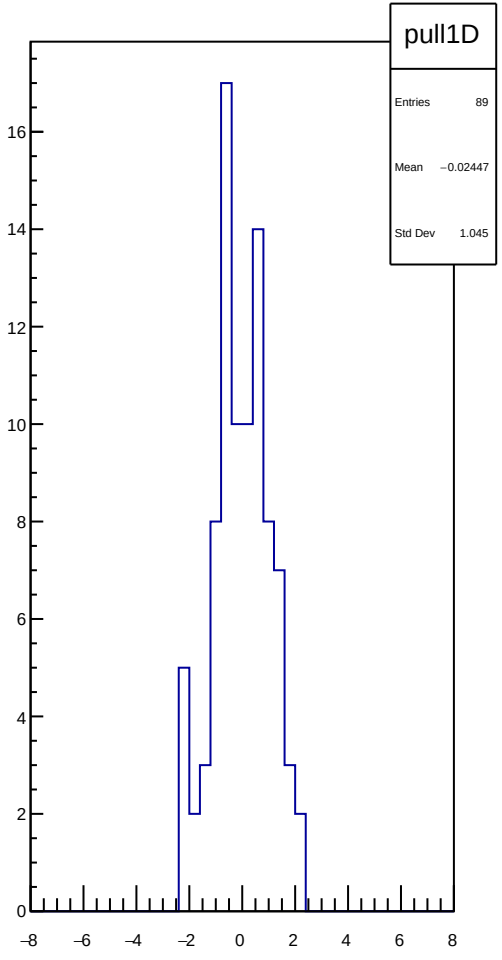

asym_atl1r2_avg_dit_correction_rms vs run
χ² / ndf 6306 / 88
p0 7122 ± 5.417
8500
8000
7500
7000
6500
6000

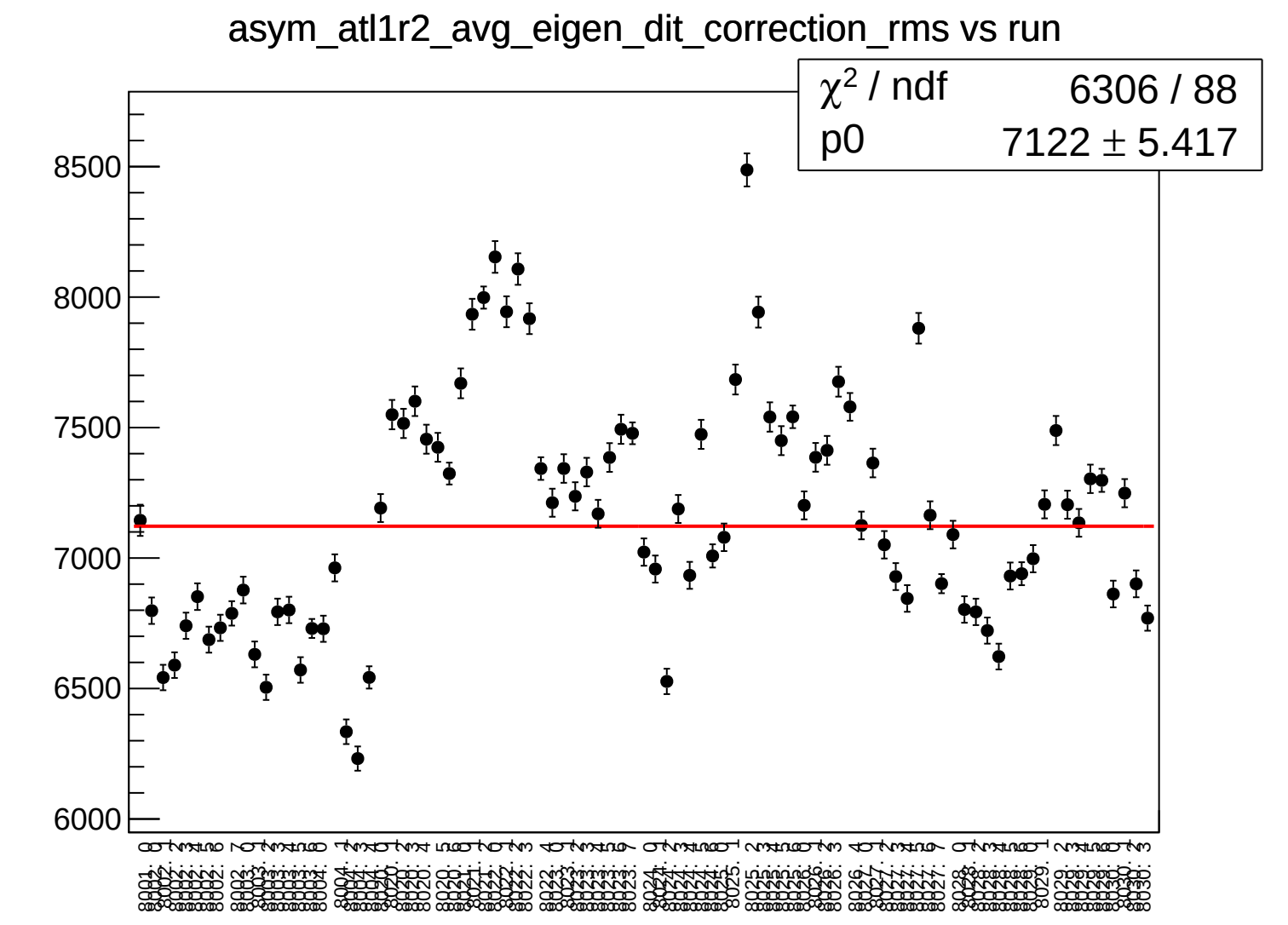

eigen_dit_asym_atl1r2_avg_mean vs run
χ² / ndf 95.18 / 88
p0 −1001 ± 1994
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −173
Std Dev 0
2
1
0
−1
−2

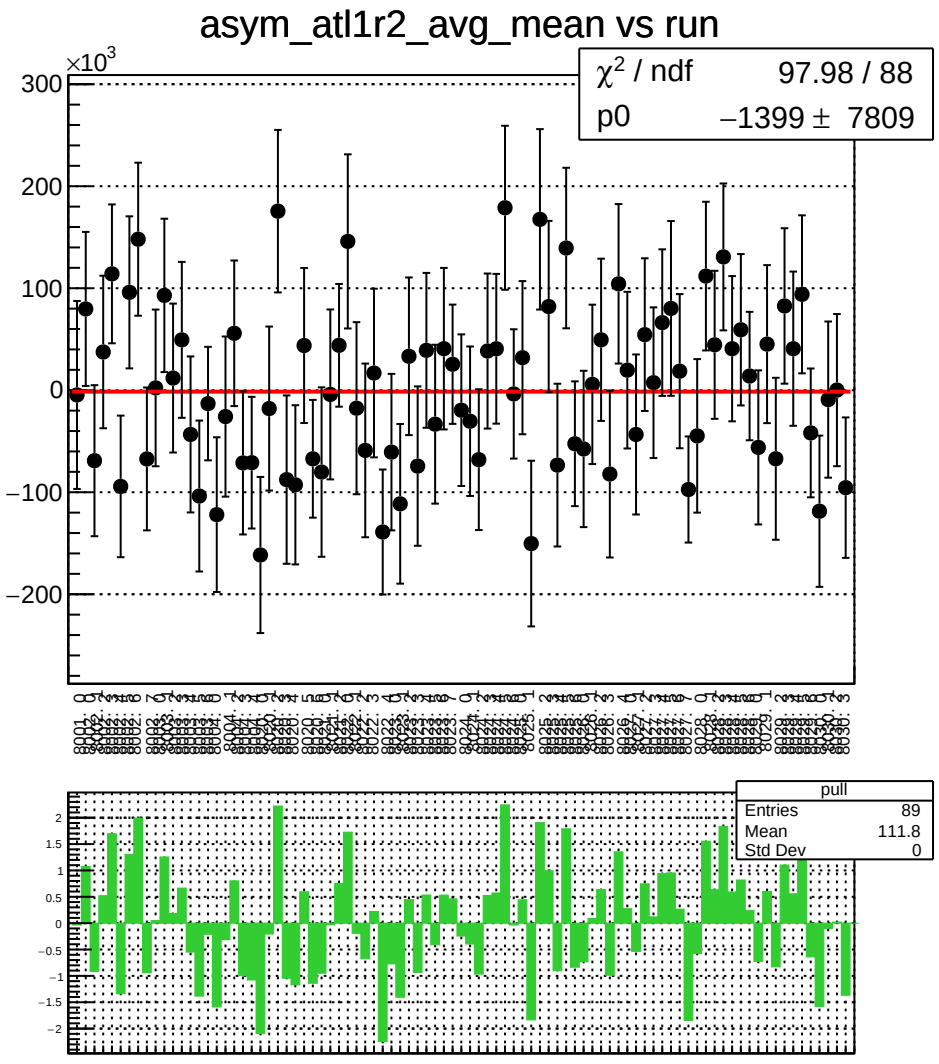

pull1D
Entries 89
Mean 0.01228
Std Dev 1.034
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

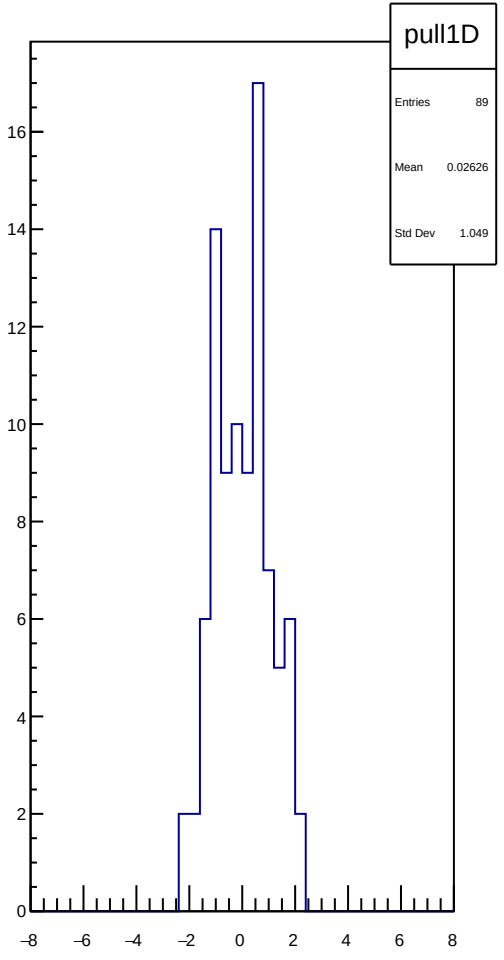

eigen_dit_asym_atl1r2_avg_rms vs run
χ² / ndf 268.6 / 88
p0 1857 ± 1.41
1980
1960
1940
1920
1900
1880
1860
1840
1820
1800
1780

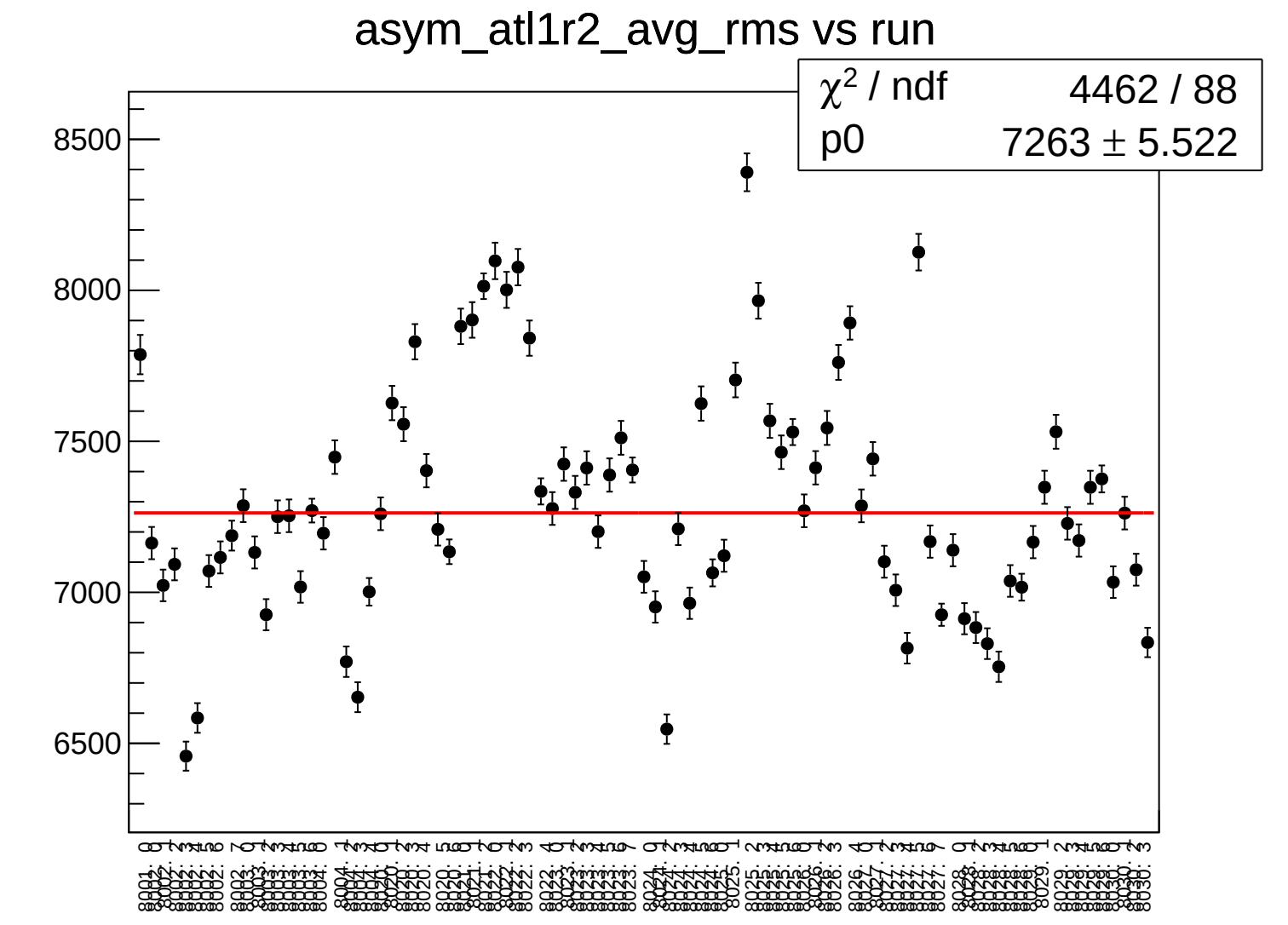

asym_atl1r2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 97.21 / 88
p0 576 ± 7661
200
100
0
−100
−200
−300
pull
Entries 89
Mean 149.3
Std Dev 0
2
1
0
−1
−2

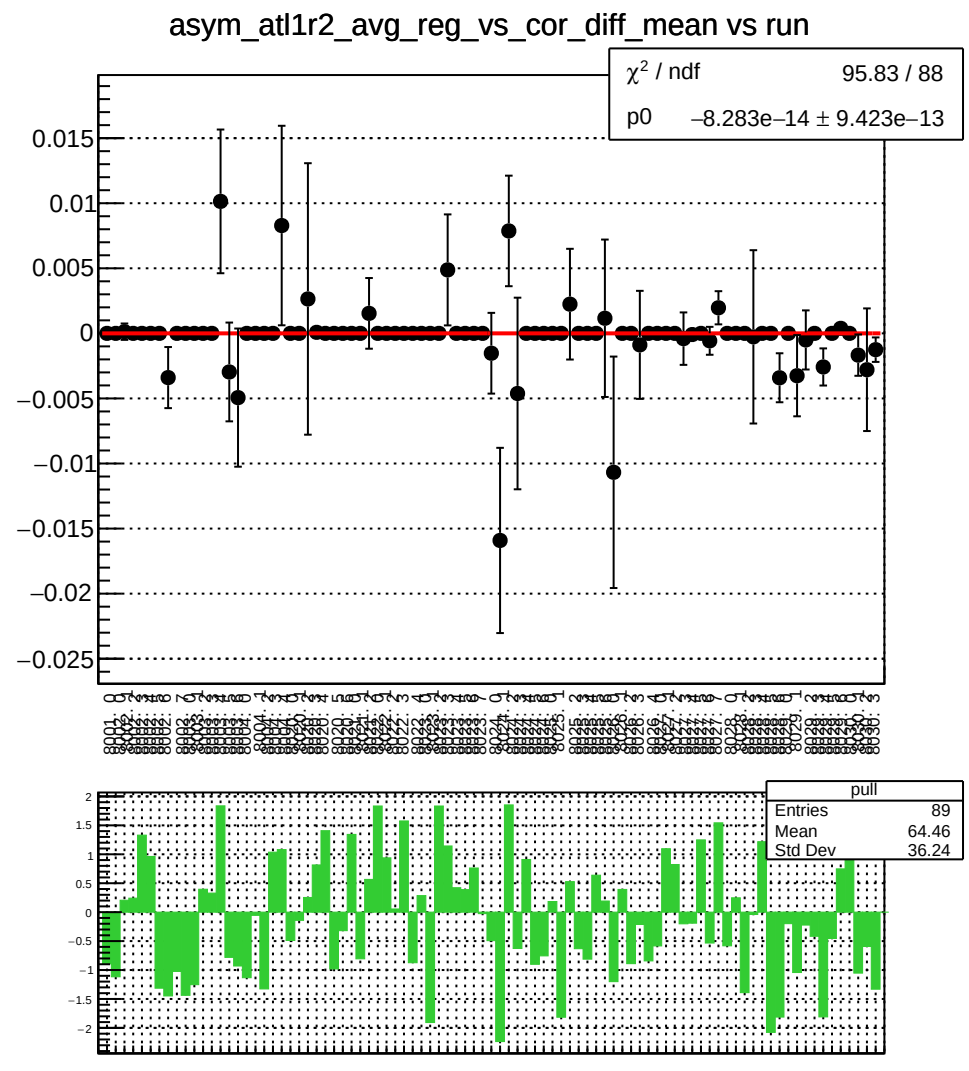

pull1D
Entries 89
Mean −0.02447
Std Dev 1.045
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

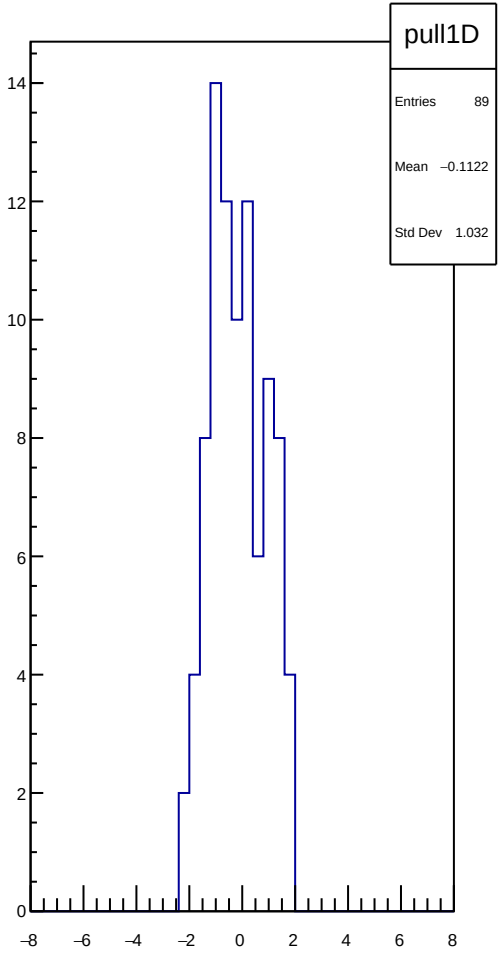

asym_atl1r2_avg_eigen_dit_correction_rms vs run
χ² / ndf 6306 / 88
p0 7122 ± 5.417
8500
8000
7500
7000
6500
6000

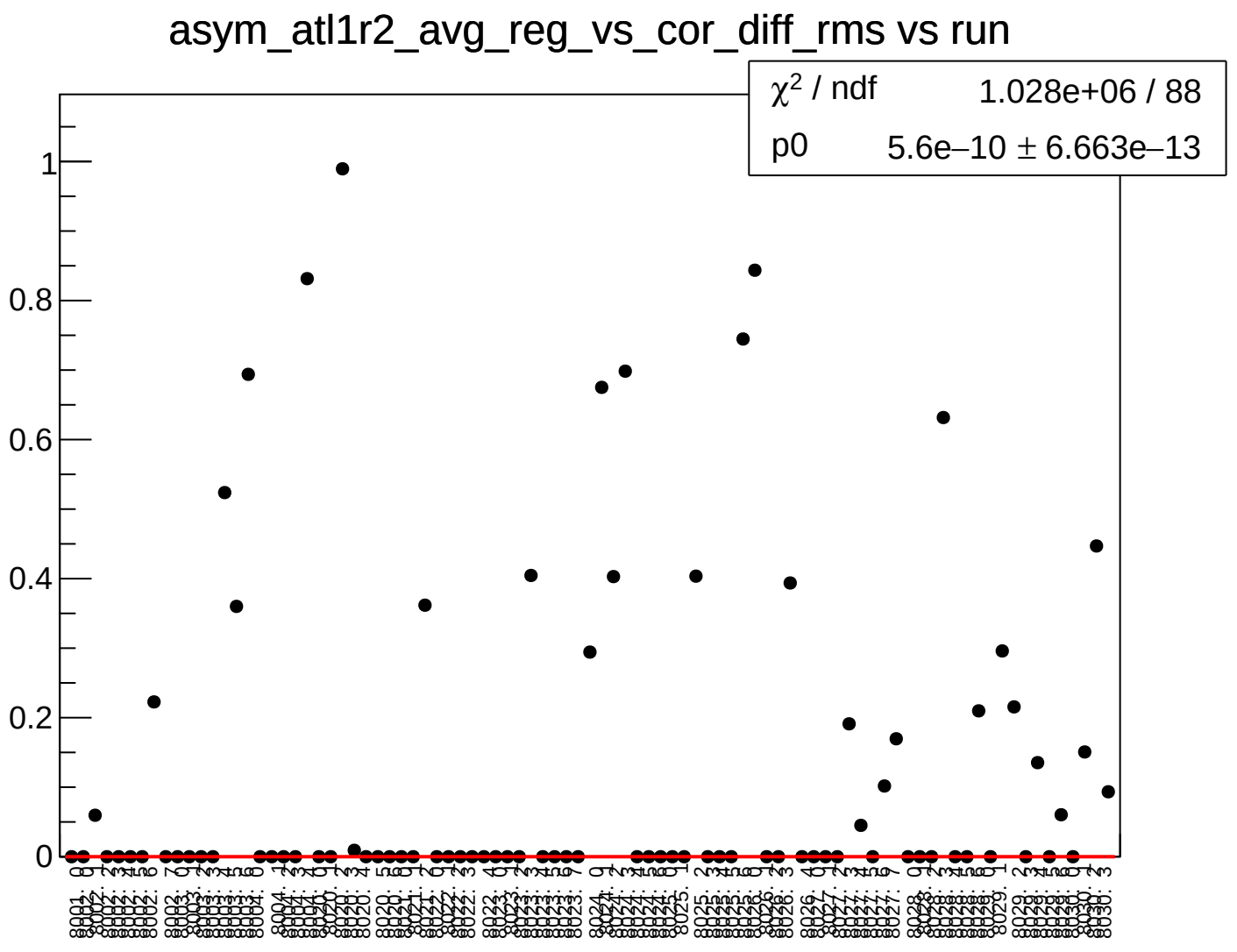

asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 97.98 / 88
p0 −1399 ± 7809
300
200
100
0
−100
−200
pull
Entries 89
Mean 111.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

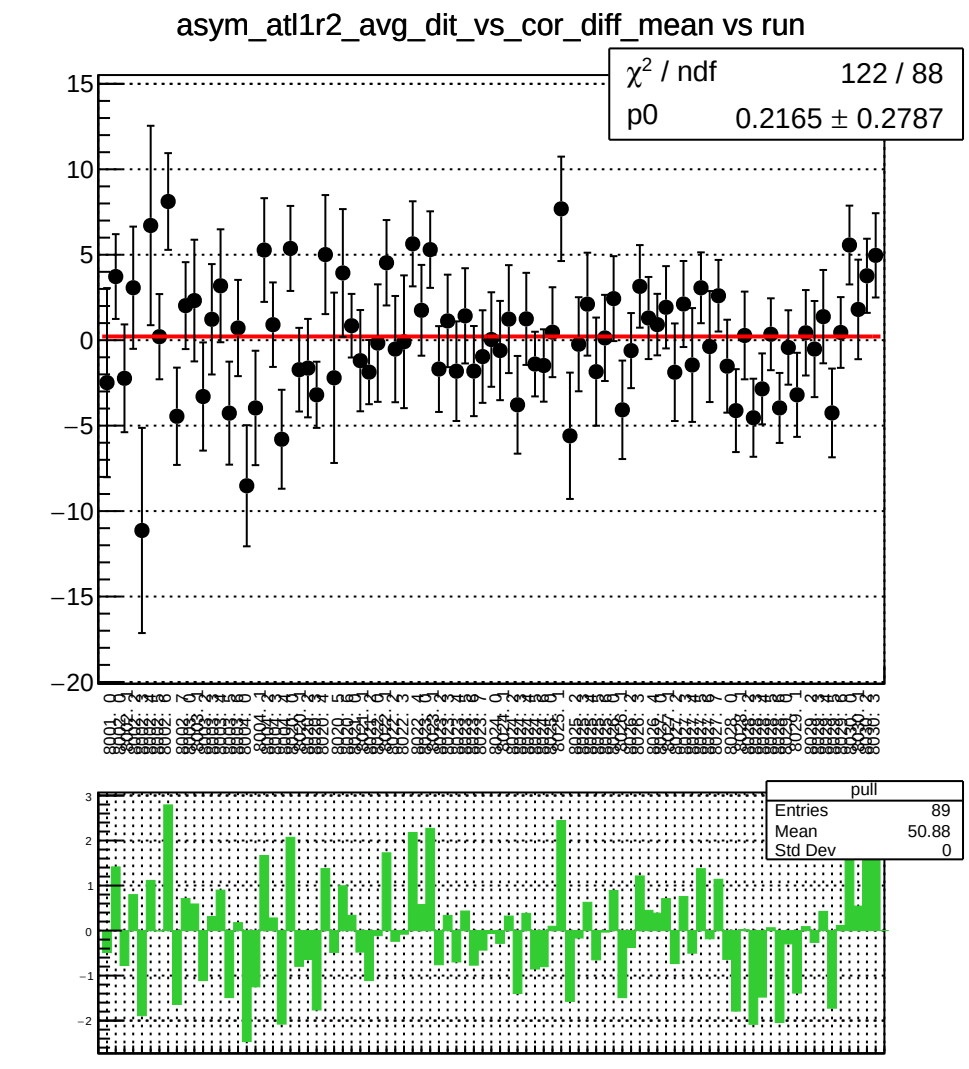

pull1D
Entries 89
Mean 0.02626
Std Dev 1.049
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

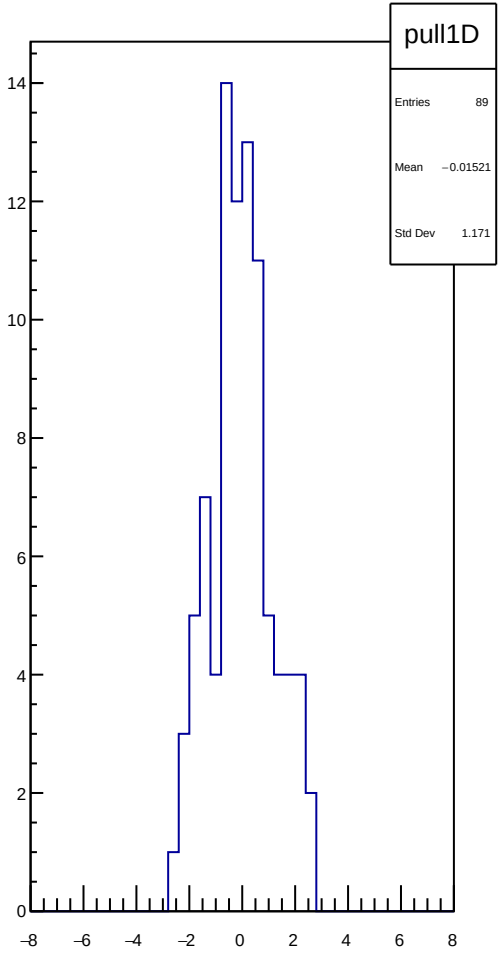

asym_atl1r2_avg_rms vs run
χ² / ndf 4462 / 88
p0 7263 ± 5.522
8500
8000
7500
7000
6500

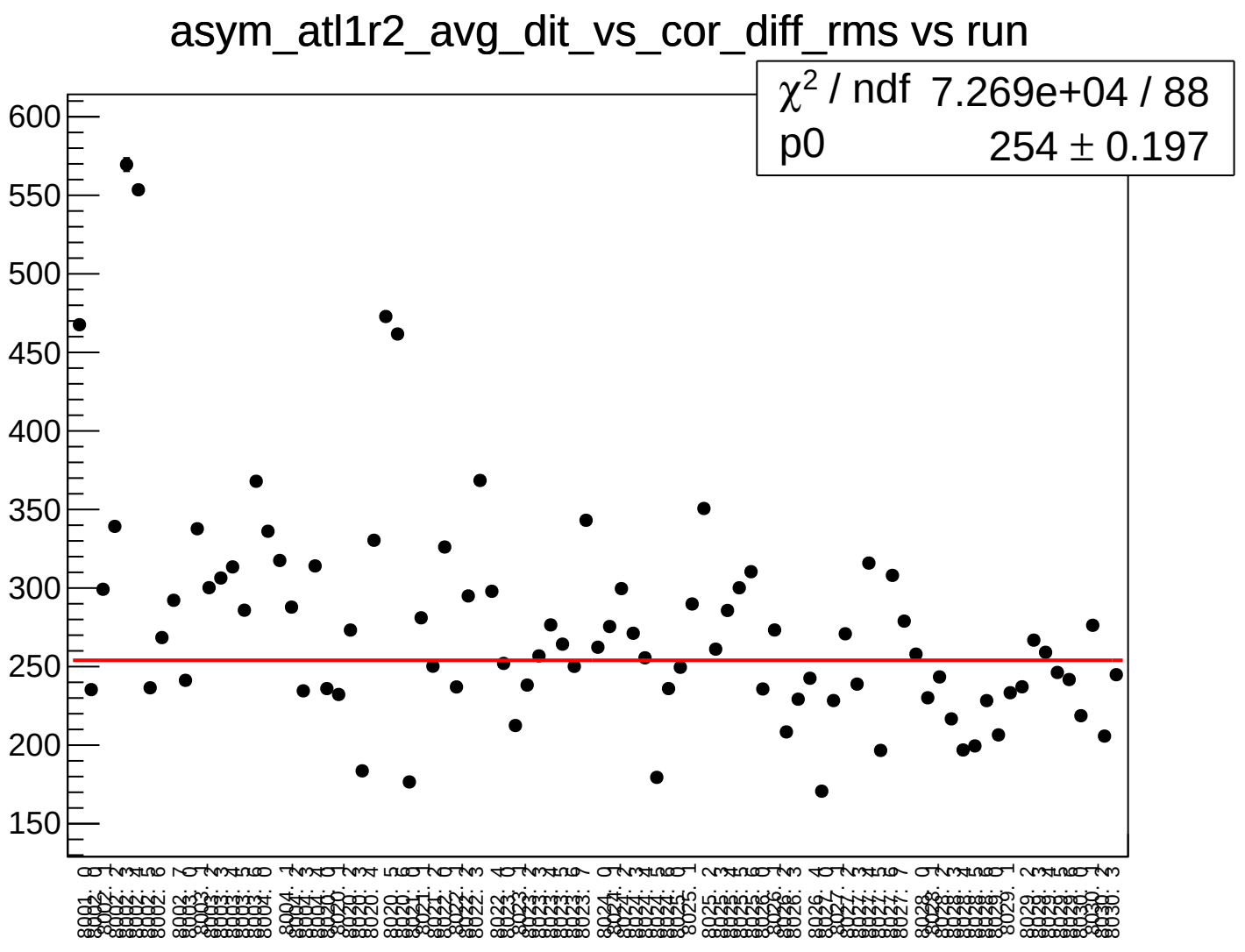

asym_atl1r2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 95.83 / 88
p0 −8.283e−14 ± 9.423e−13
pull
Entries 89
Mean 64.46
Std Dev 36.24

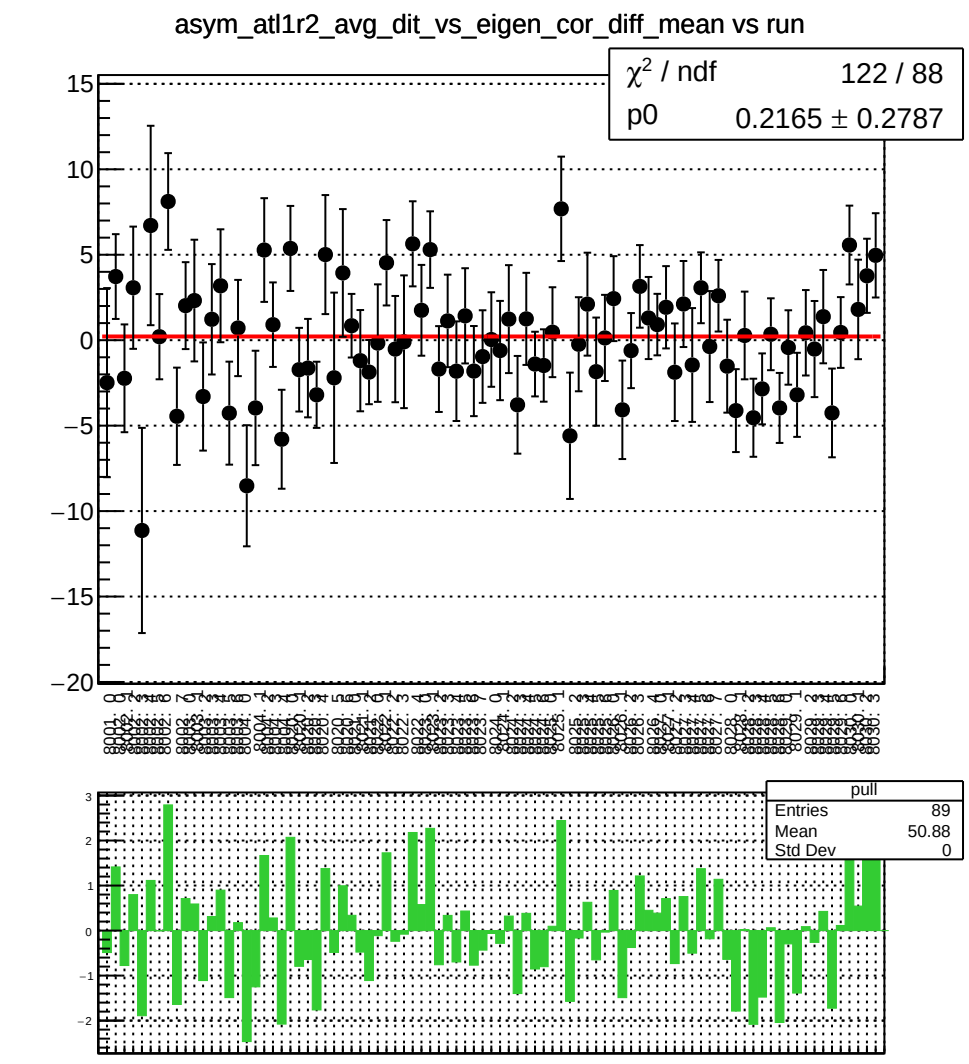

pull1D
Entries 89
Mean −0.1122
Std Dev 1.032

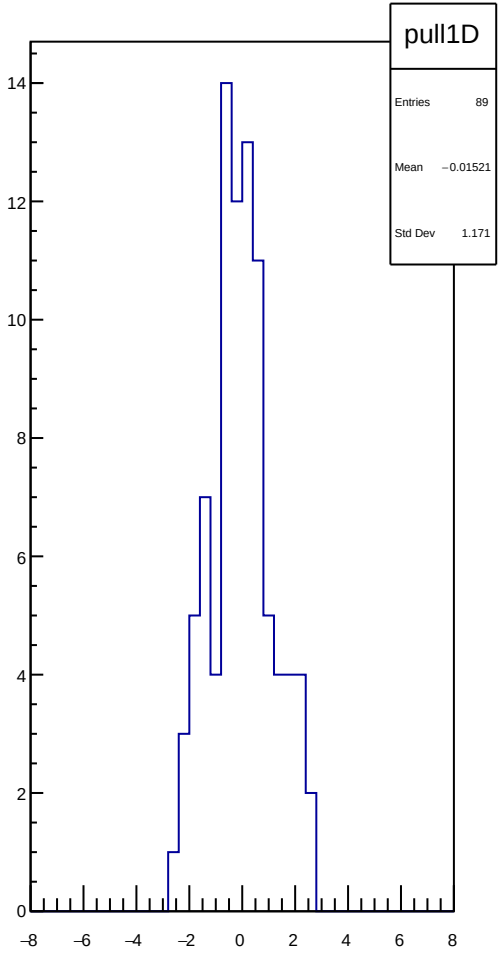

asym_atl1r2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.028e+06 / 88
p0 5.6e−10 ± 6.663e−13
1
0.8
0.6
0.4
0.2
0

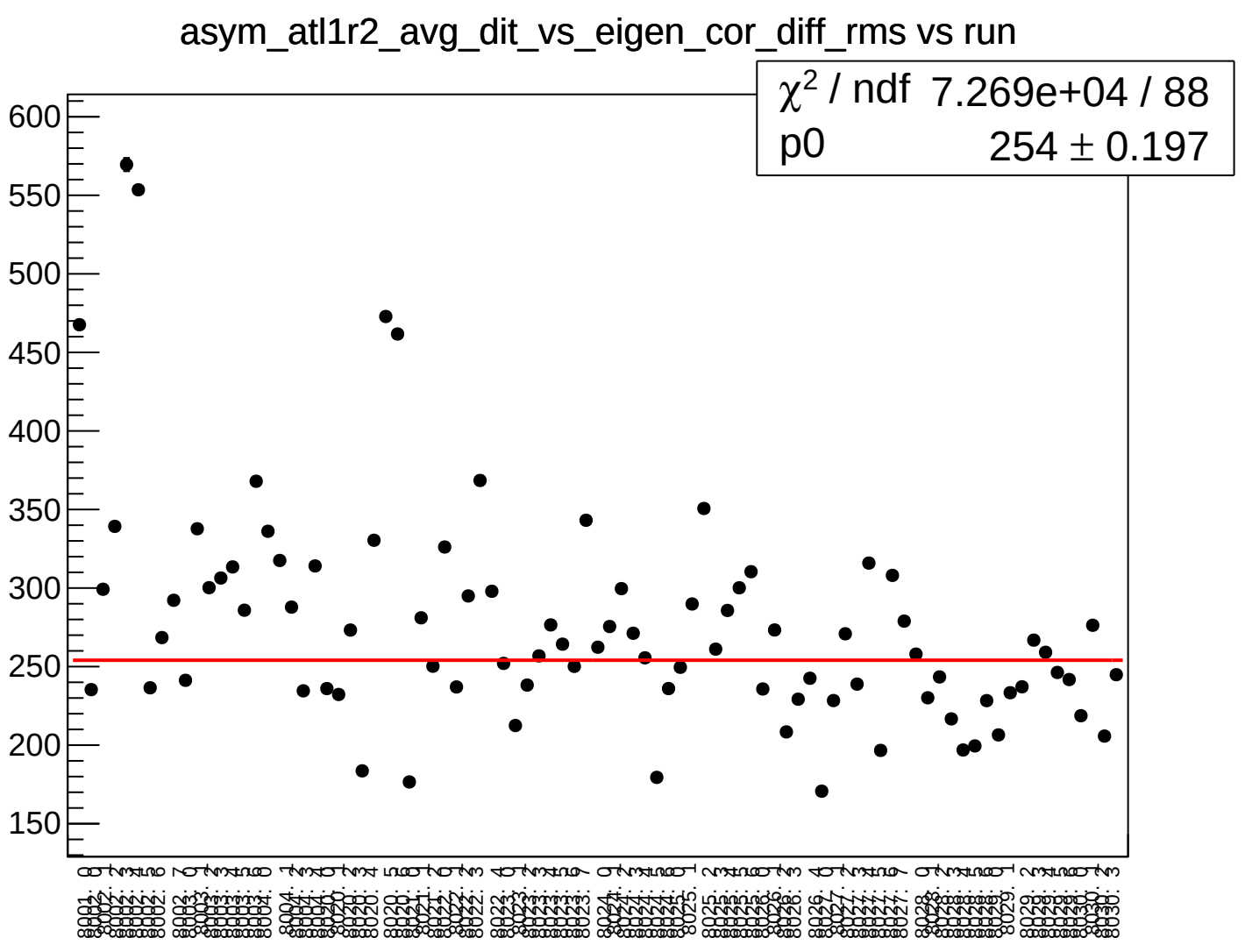

asym_atl1r2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 122 / 88
p0 0.2165 ± 0.2787
pull
Entries 89
Mean 50.88
Std Dev 0

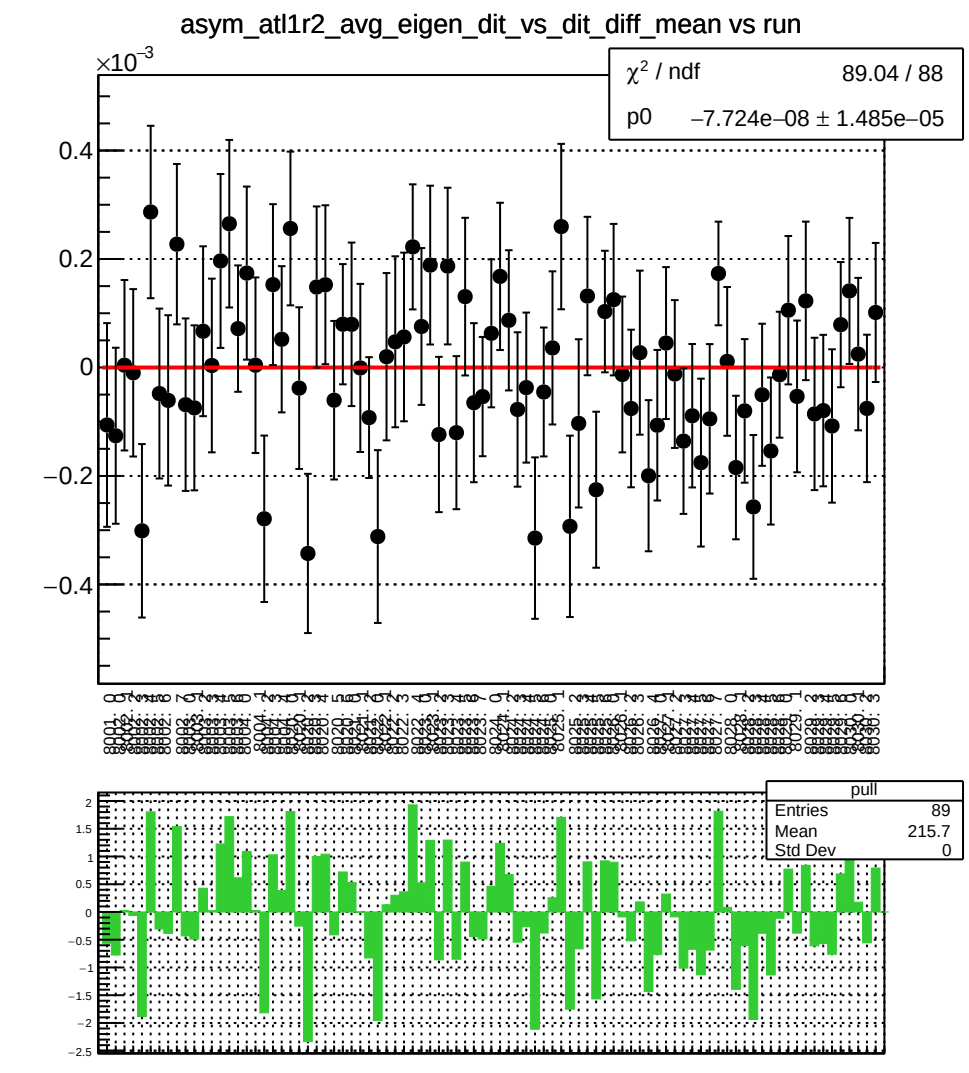

pull1D
Entries 89
Mean −0.01521
Std Dev 1.171

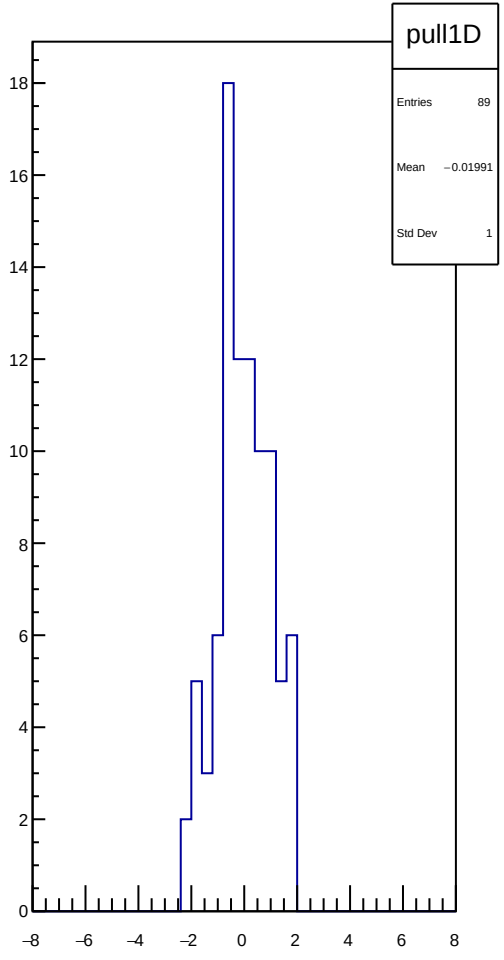

asym_atl1r2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.269e+04 / 88
p0 254 ± 0.197
600
550
500
450
400
350
300
250
200
150

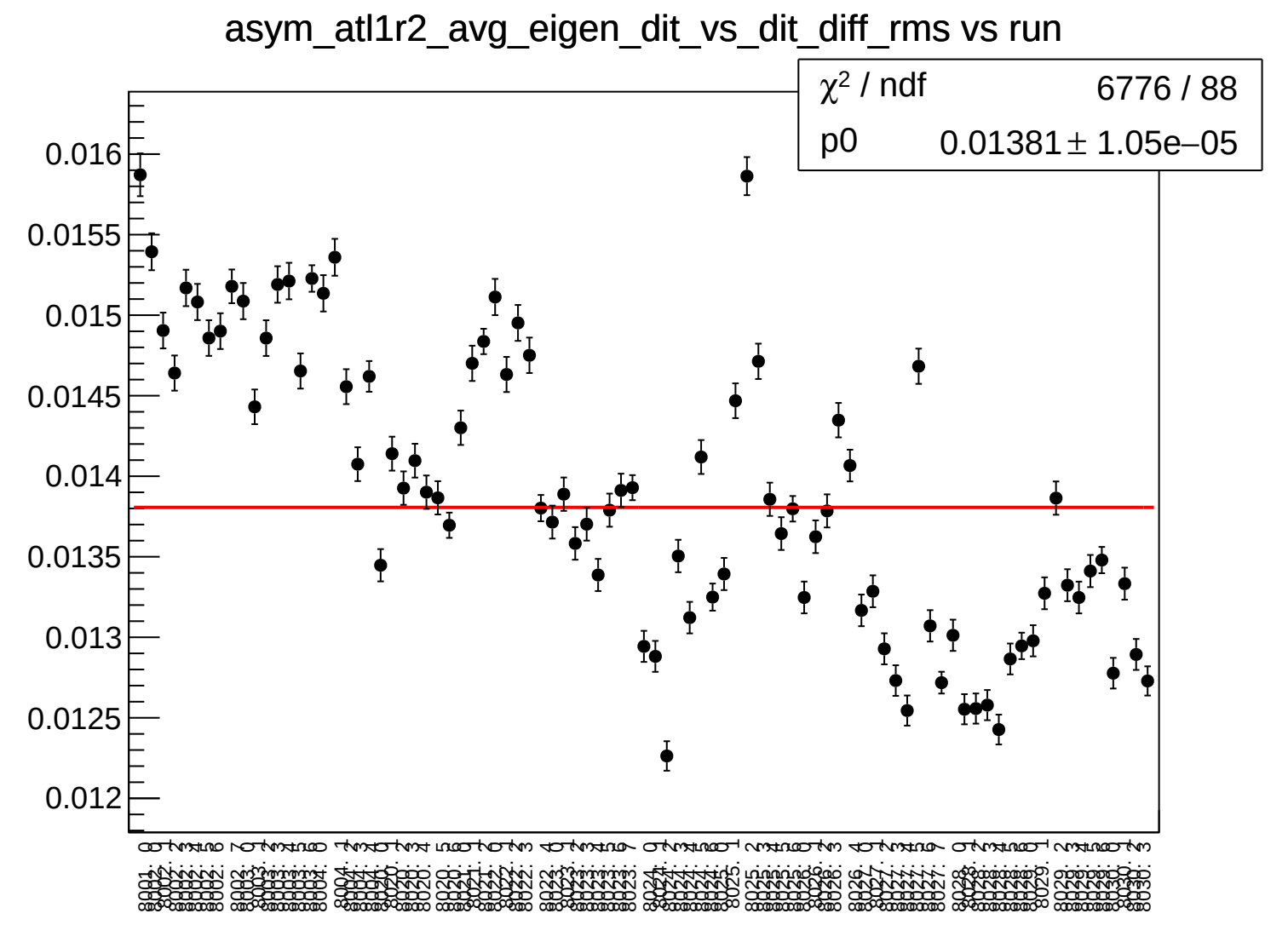

asym_atl1r2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 122 / 88
p0 0.2165 ± 0.2787
pull
Entries 89
Mean 50.88
Std Dev 0

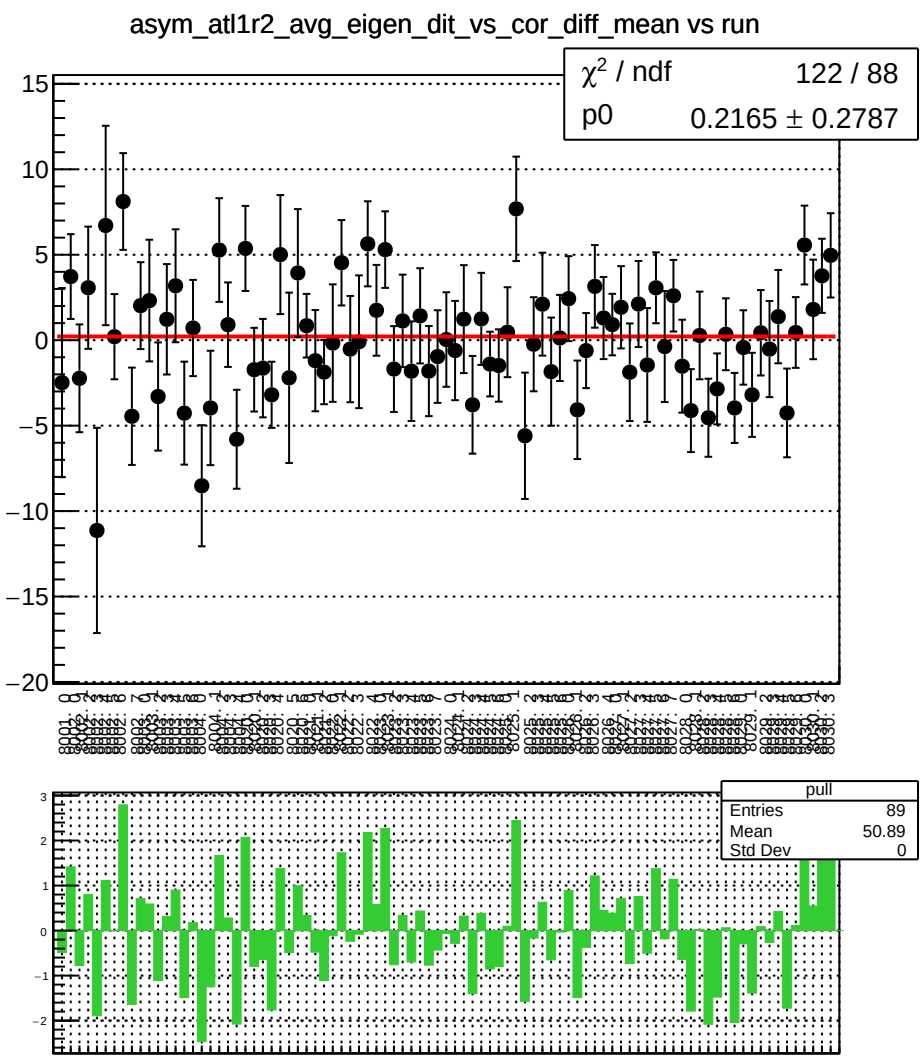

pull1D
Entries 89
Mean −0.01521
Std Dev 1.171

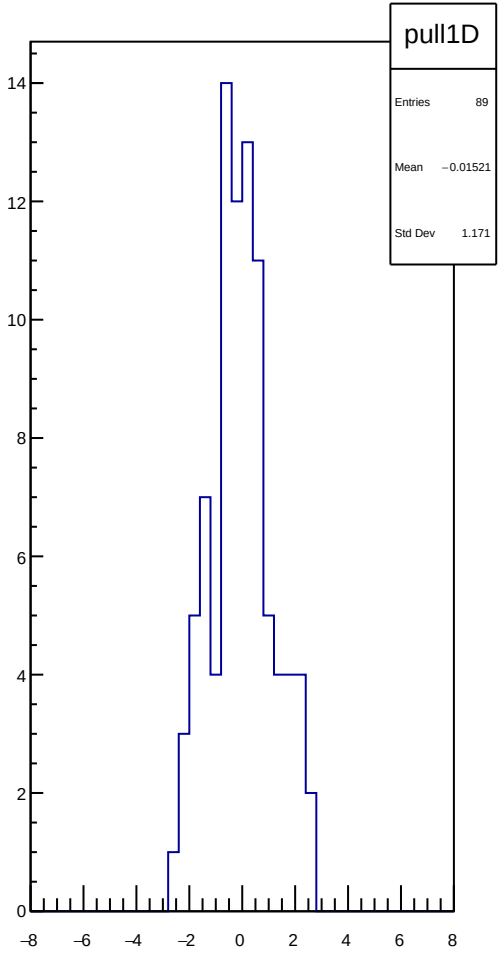

asym_atl1r2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.269e+04 / 88
p0 254 ± 0.197
600
550
500
450
400
350
300
250
200
150

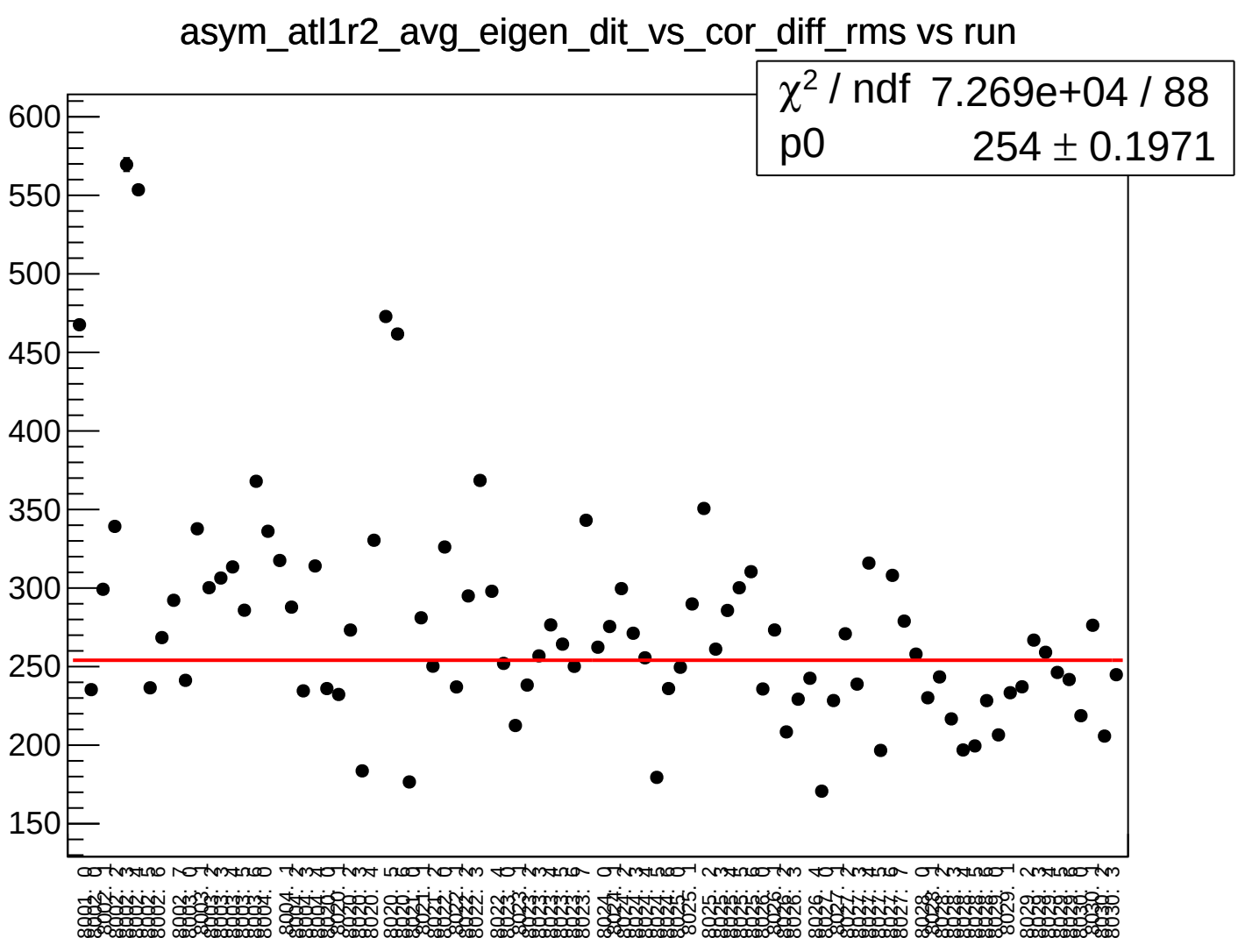

asym_atl1r2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.04 / 88
p0 −7.724e−08 ± 1.485e−05
pull
Entries 89
Mean 215.7
Std Dev 0

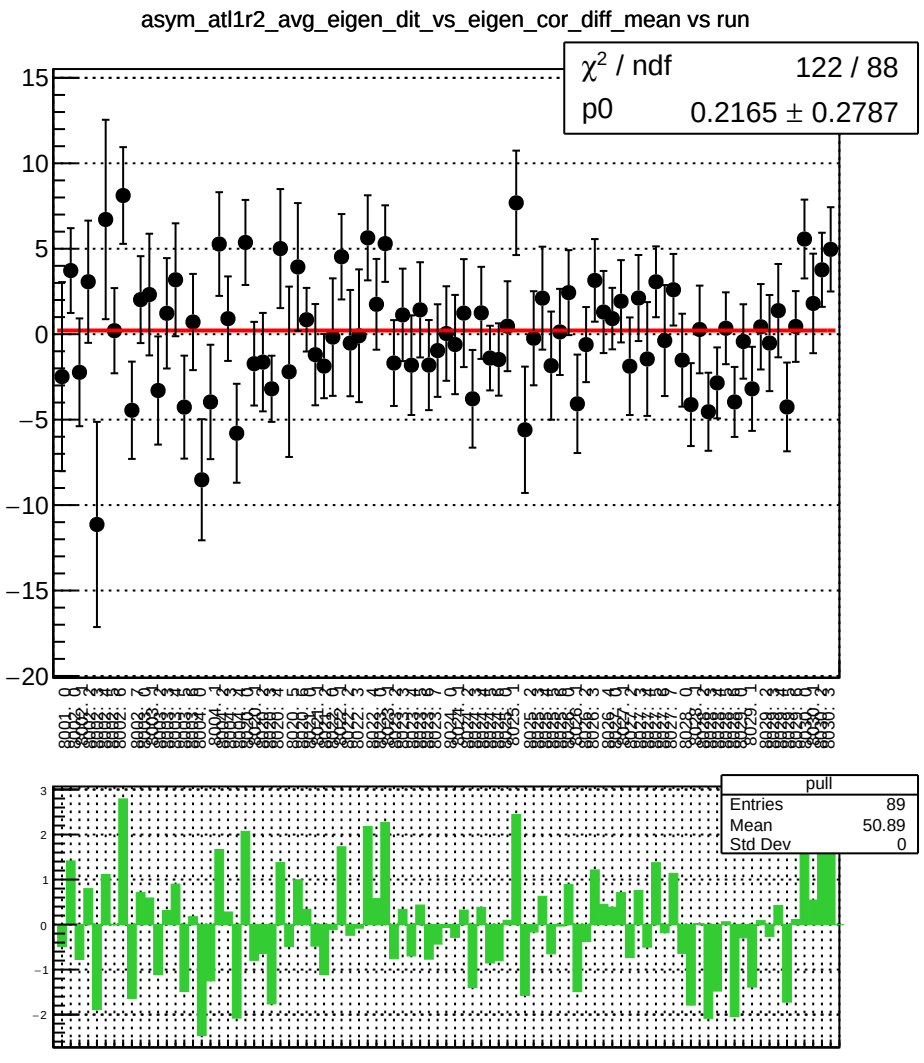

pull1D
Entries 89
Mean −0.01991
Std Dev 1

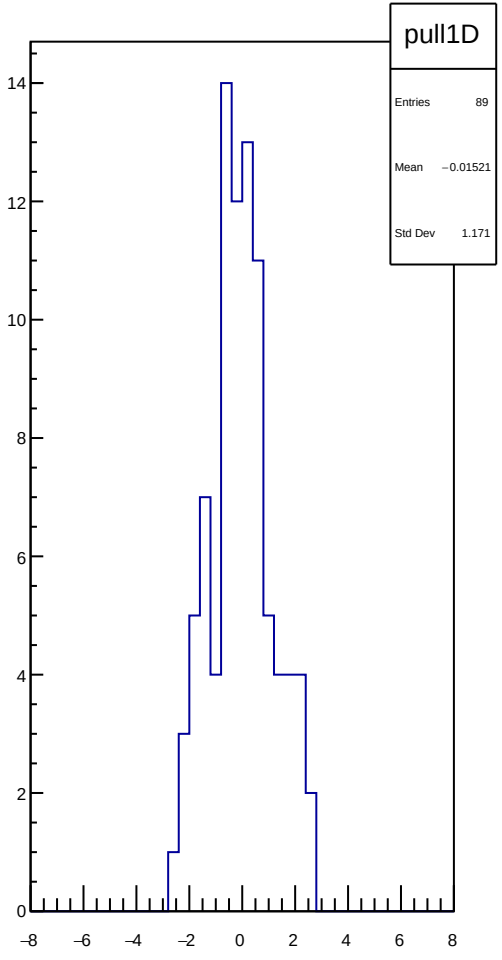

asym_atl1r2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6776 / 88
p0 0.01381 ± 1.05e–05
0.016
0.0155
0.015
0.0145
0.014
0.0135
0.013
0.0125
0.012

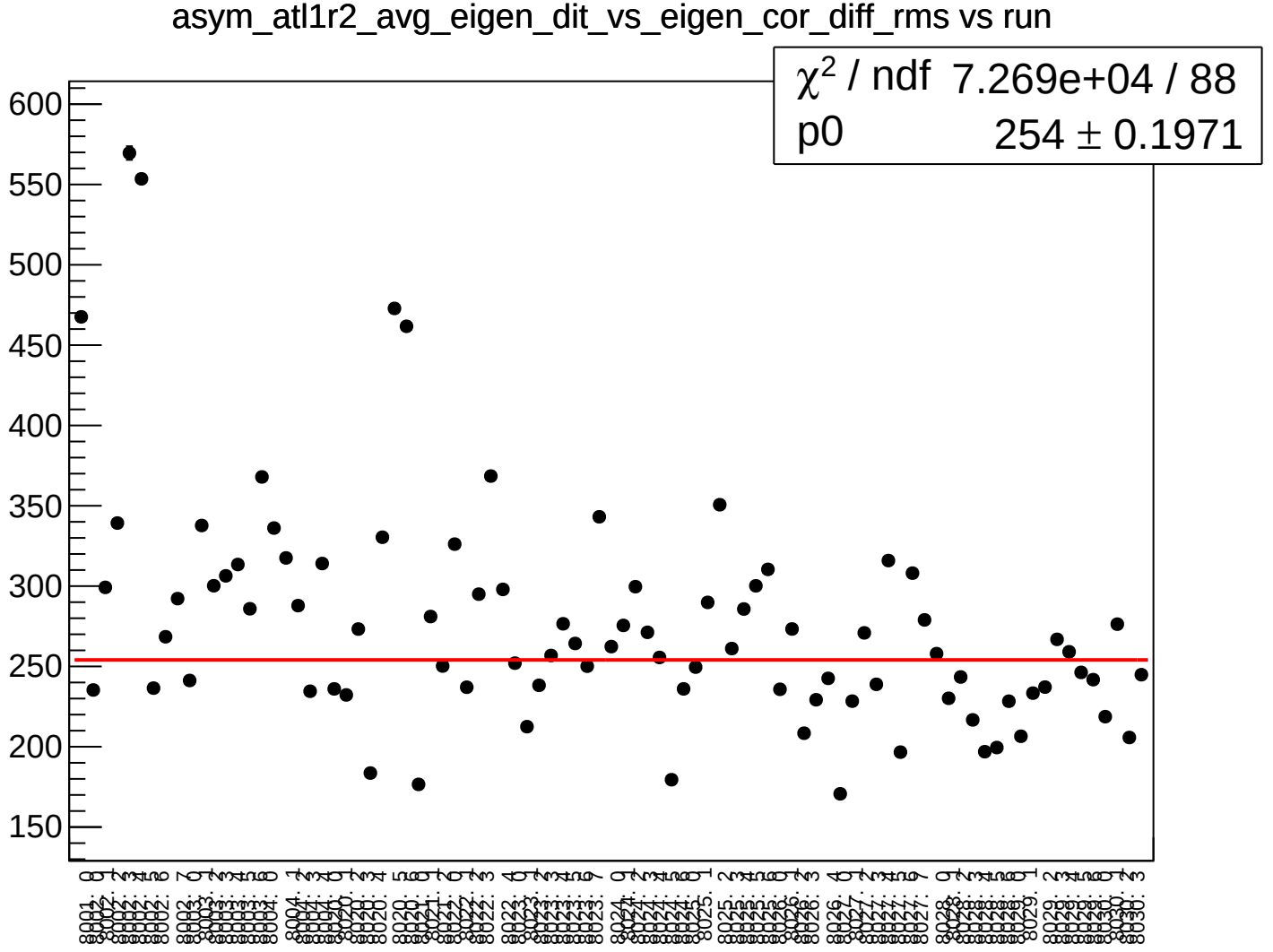

asym_atl1r2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 122 / 88
p0 0.2165 ± 0.2787
pull
Entries 89
Mean 50.89
Std Dev 0

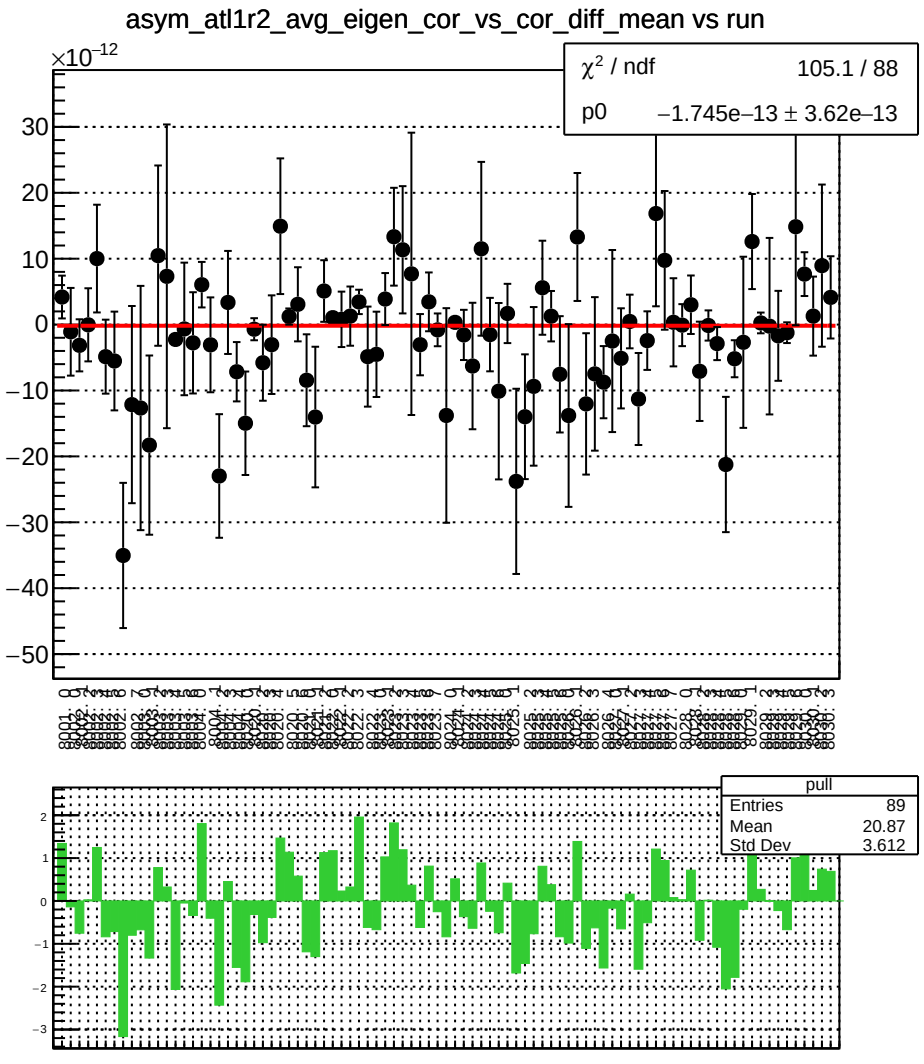

pull1D
Entries 89
Mean −0.01521
Std Dev 1.171

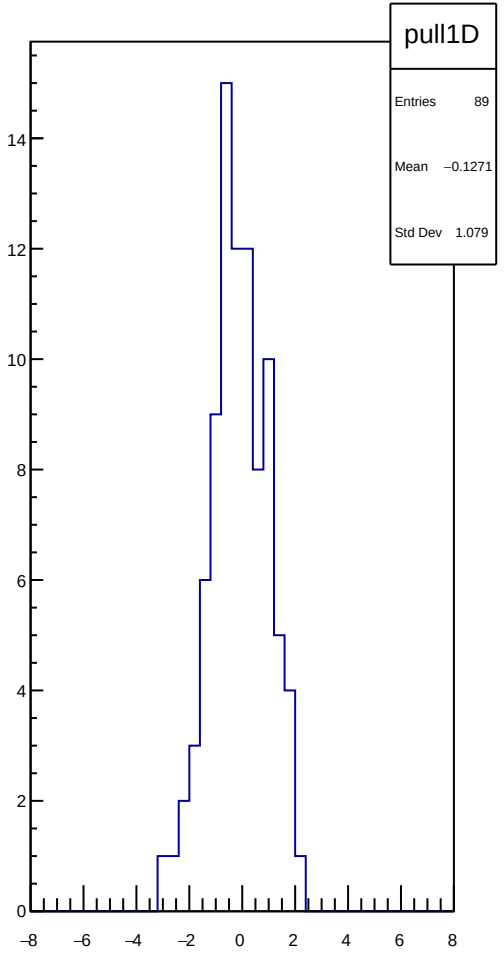

asym_atl1r2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.269e+04 / 88
p0 254 ± 0.1971
600
550
500
450
400
350
300
250
200
150

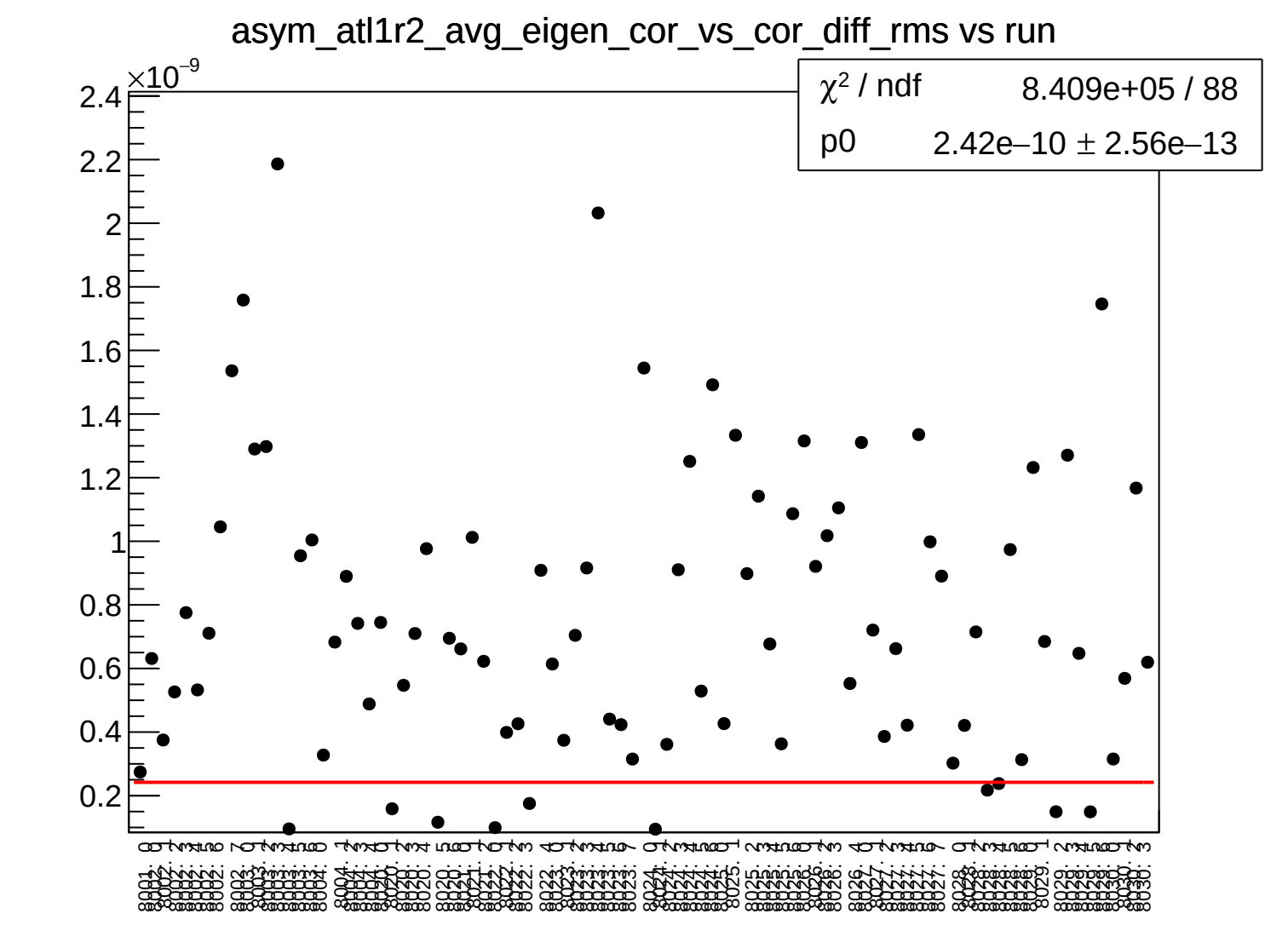

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 122 / 88
p0 0.2165 ± 0.2787
pull
Entries 89
Mean 50.89
Std Dev 0

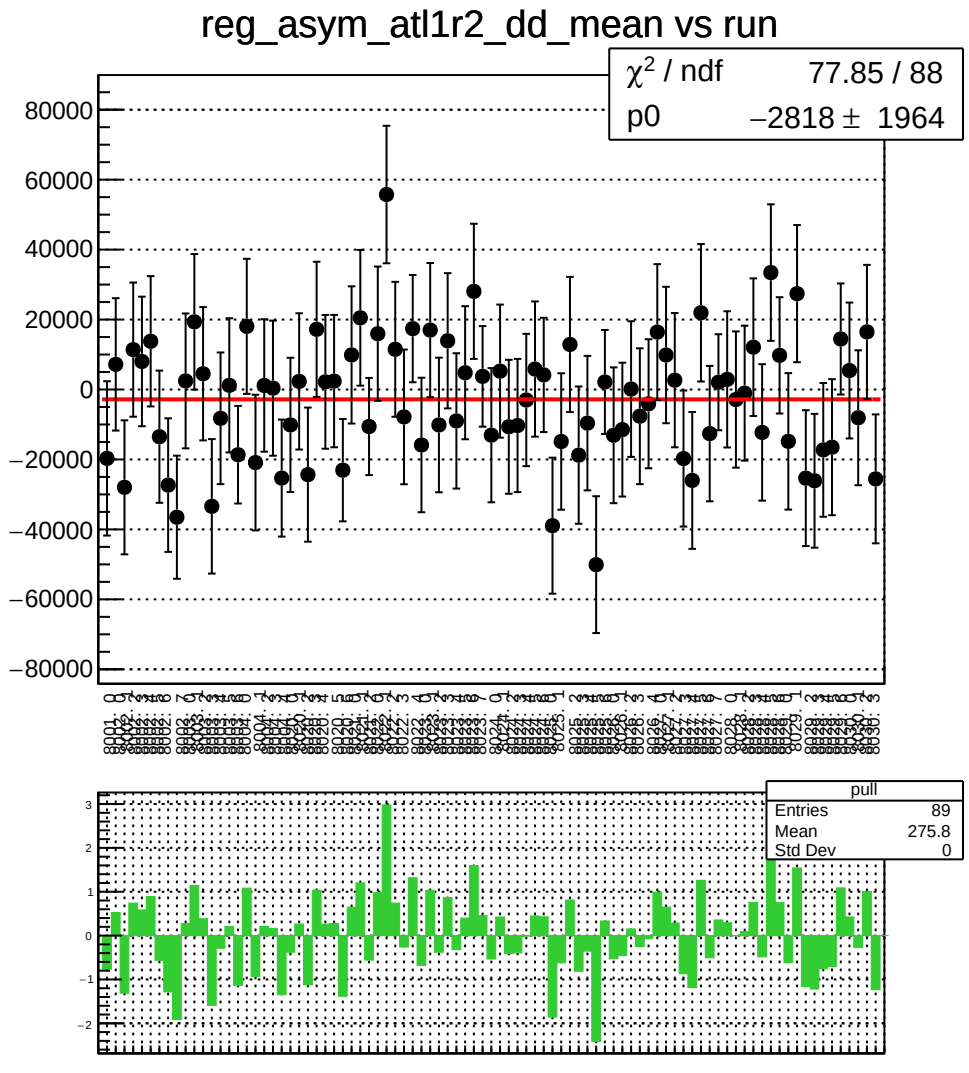

pull1D
Entries 89
Mean −0.01521
Std Dev 1.171

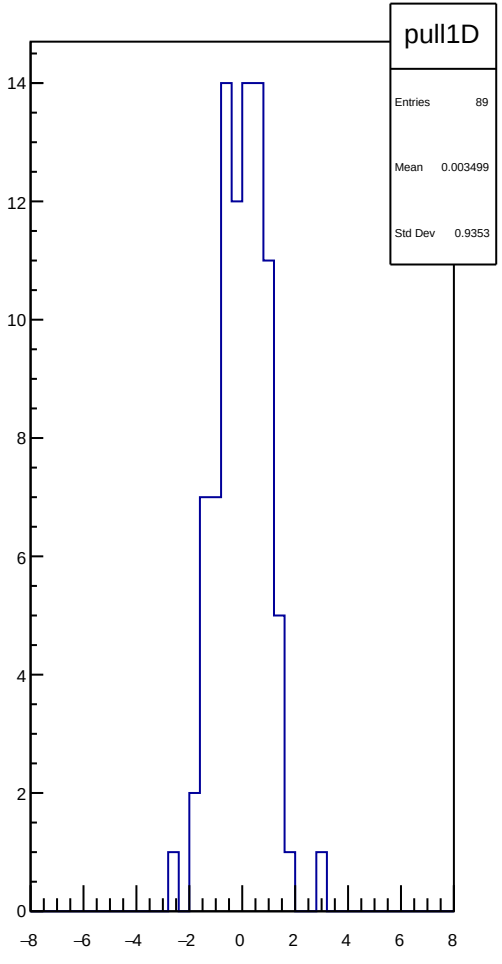

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.269e+04 / 88
p0 254 ± 0.1971
600
550
500
450
400
350
300
250
200
150

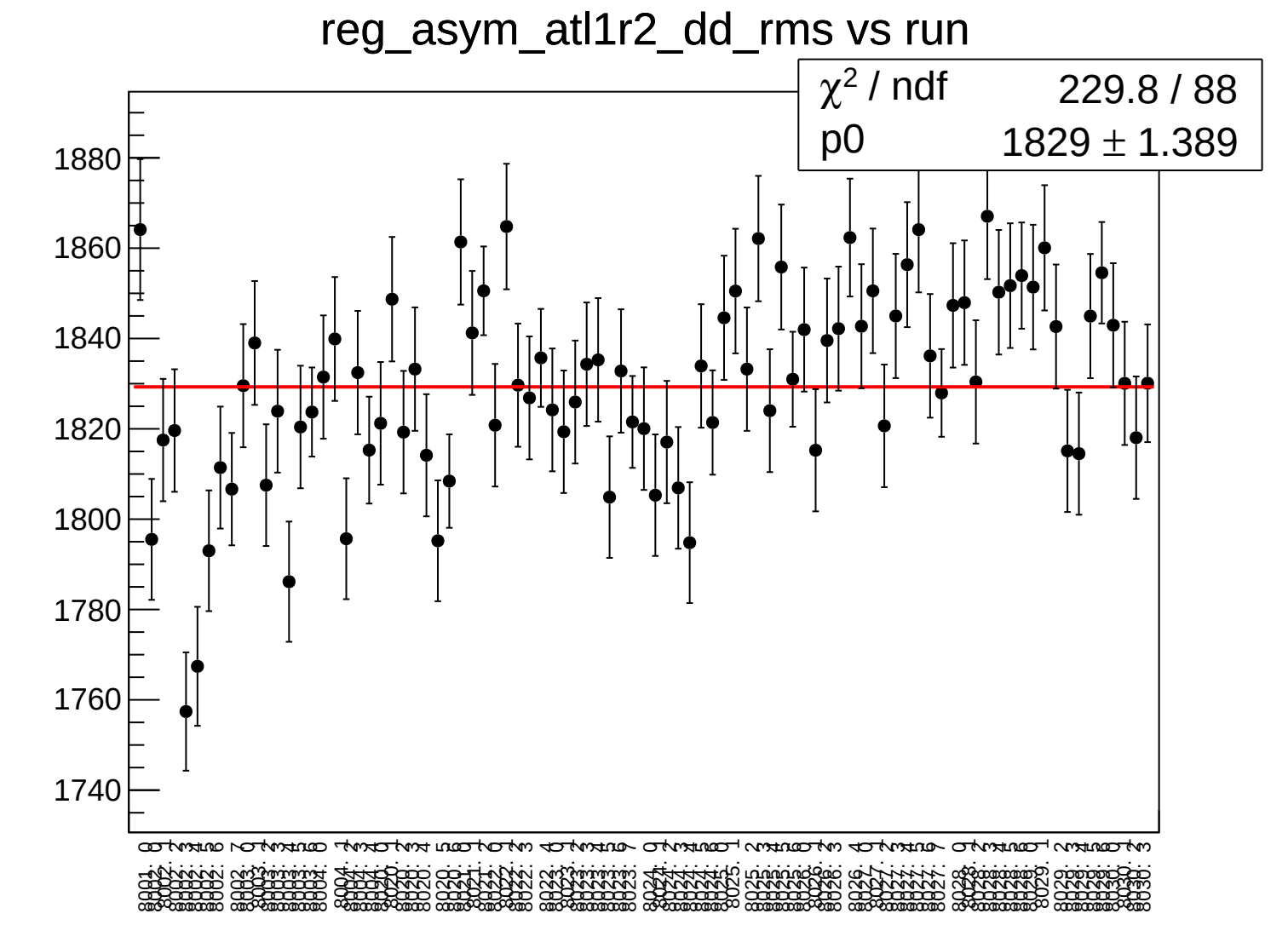

asym_atl1r2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 105.1 / 88
p0 −1.745e−13 ± 3.62e−13
pull
Entries 89
Mean 20.87
Std Dev 3.612

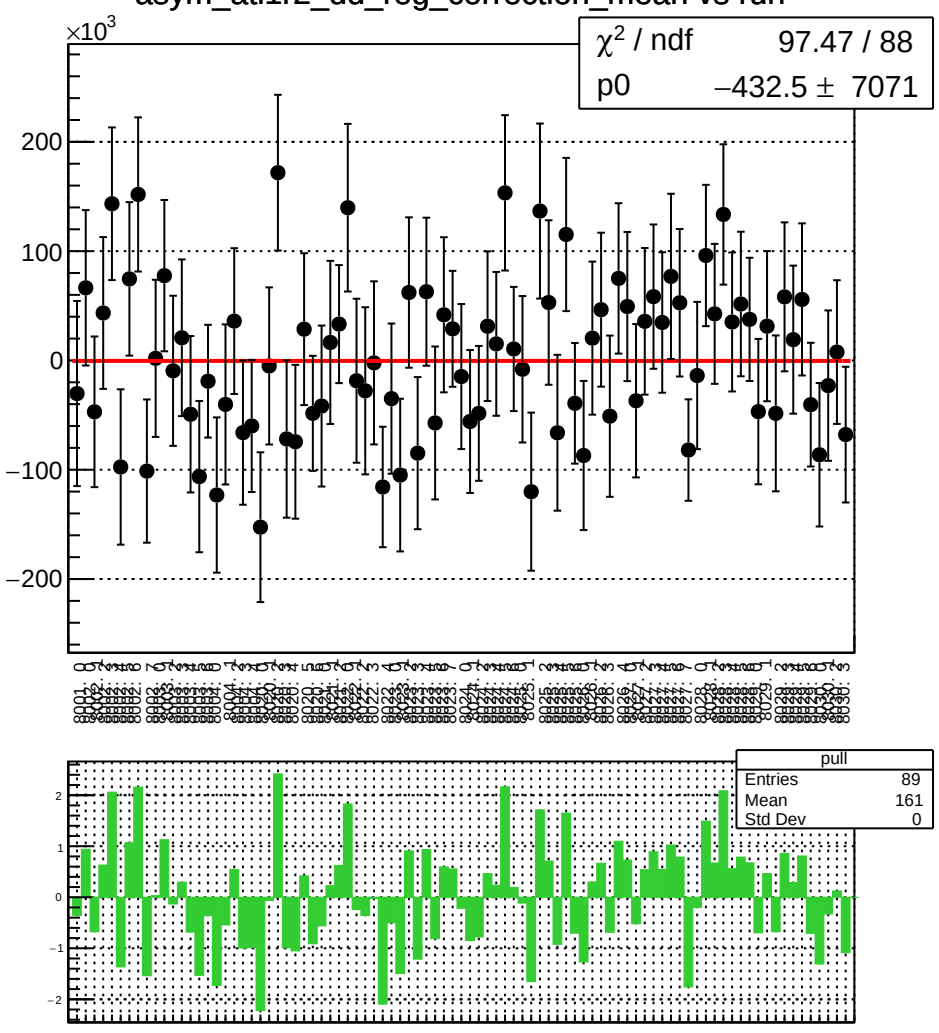

pull1D
Entries 89
Mean −0.1271
Std Dev 1.079

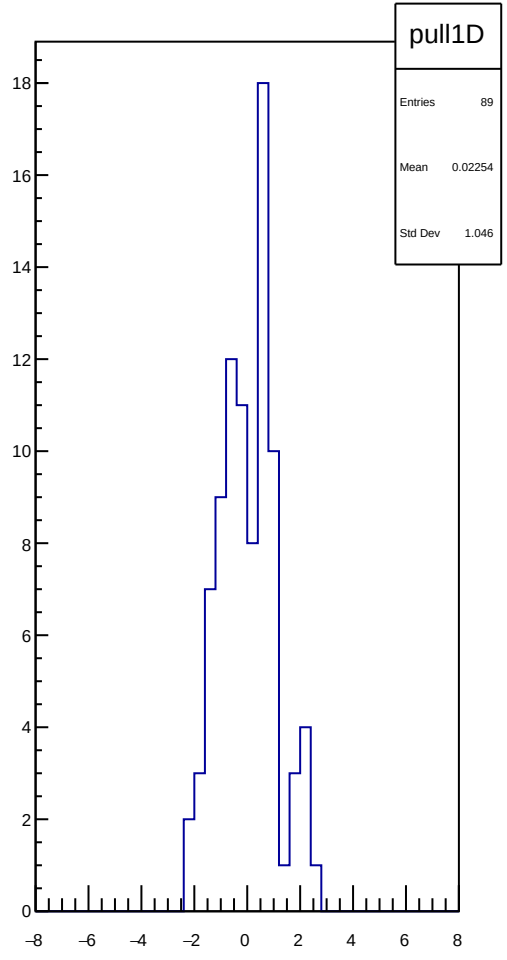

asym_atl1r2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.409e+05 / 88
p0 2.42e−10 ± 2.56e−13
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

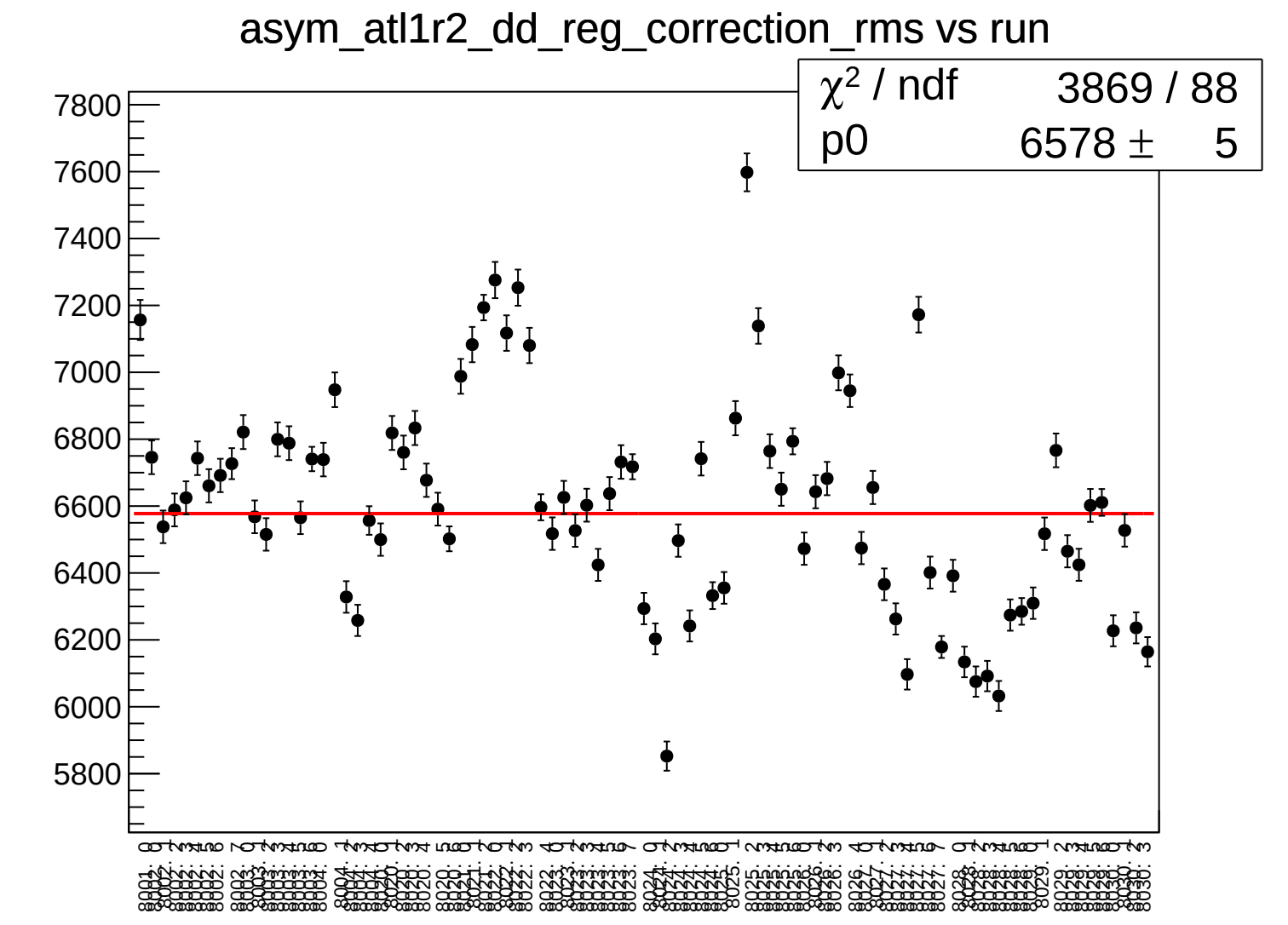

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 77.85 / 88
p0 −2818 ± 1964
pull
Entries 89
Mean 275.8
Std Dev 0

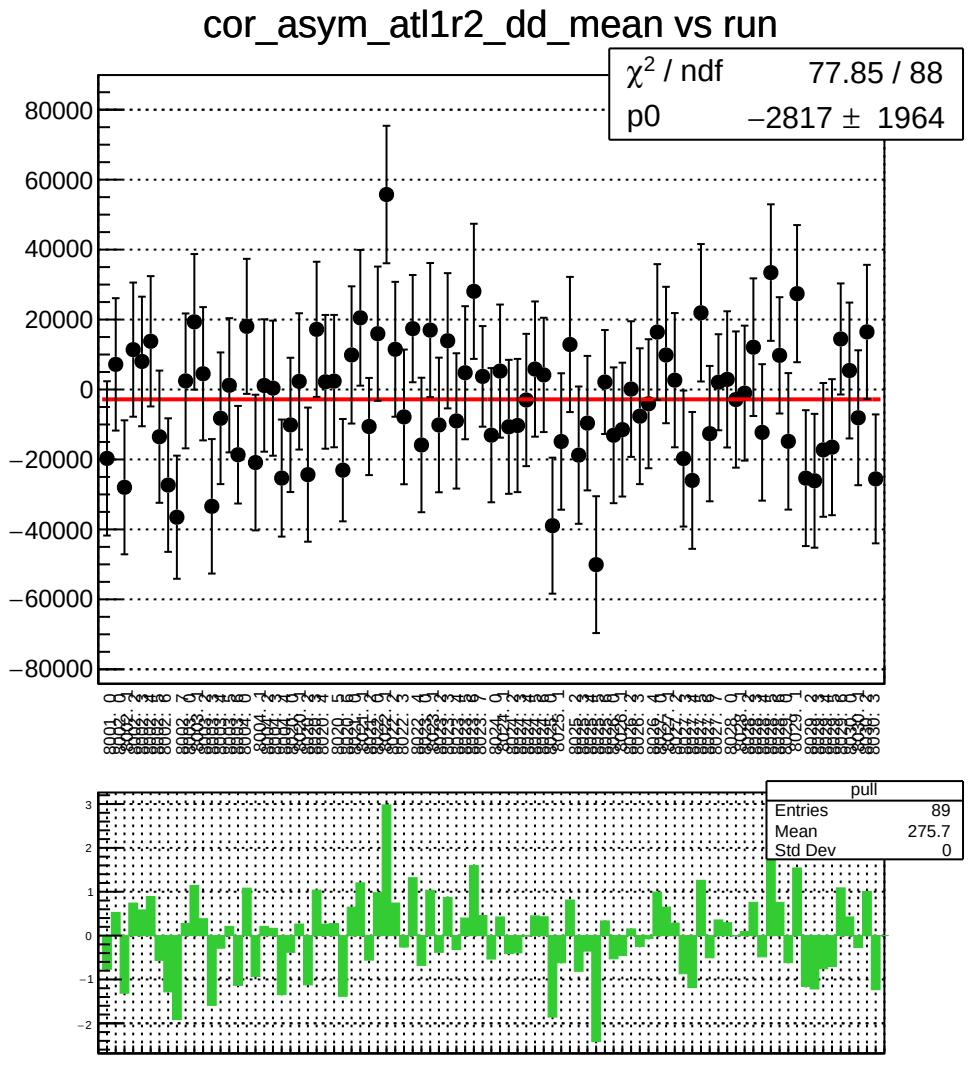

pull1D
Entries 89
Mean 0.003499
Std Dev 0.9353

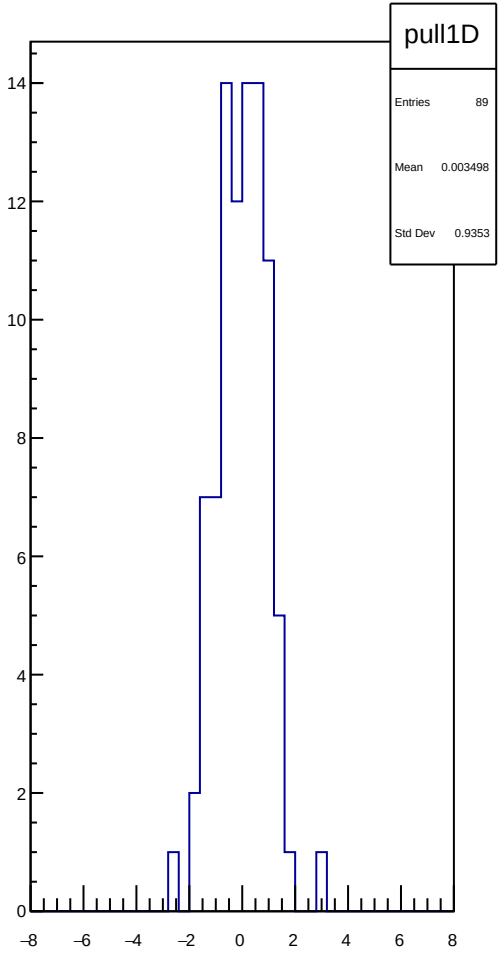

reg_asym_atl1r2_dd_rms vs run
χ^2 / ndf 229.8 / 88
p0 1829 ± 1.389
1880
1860
1840
1820
1800
1780
1760
1740

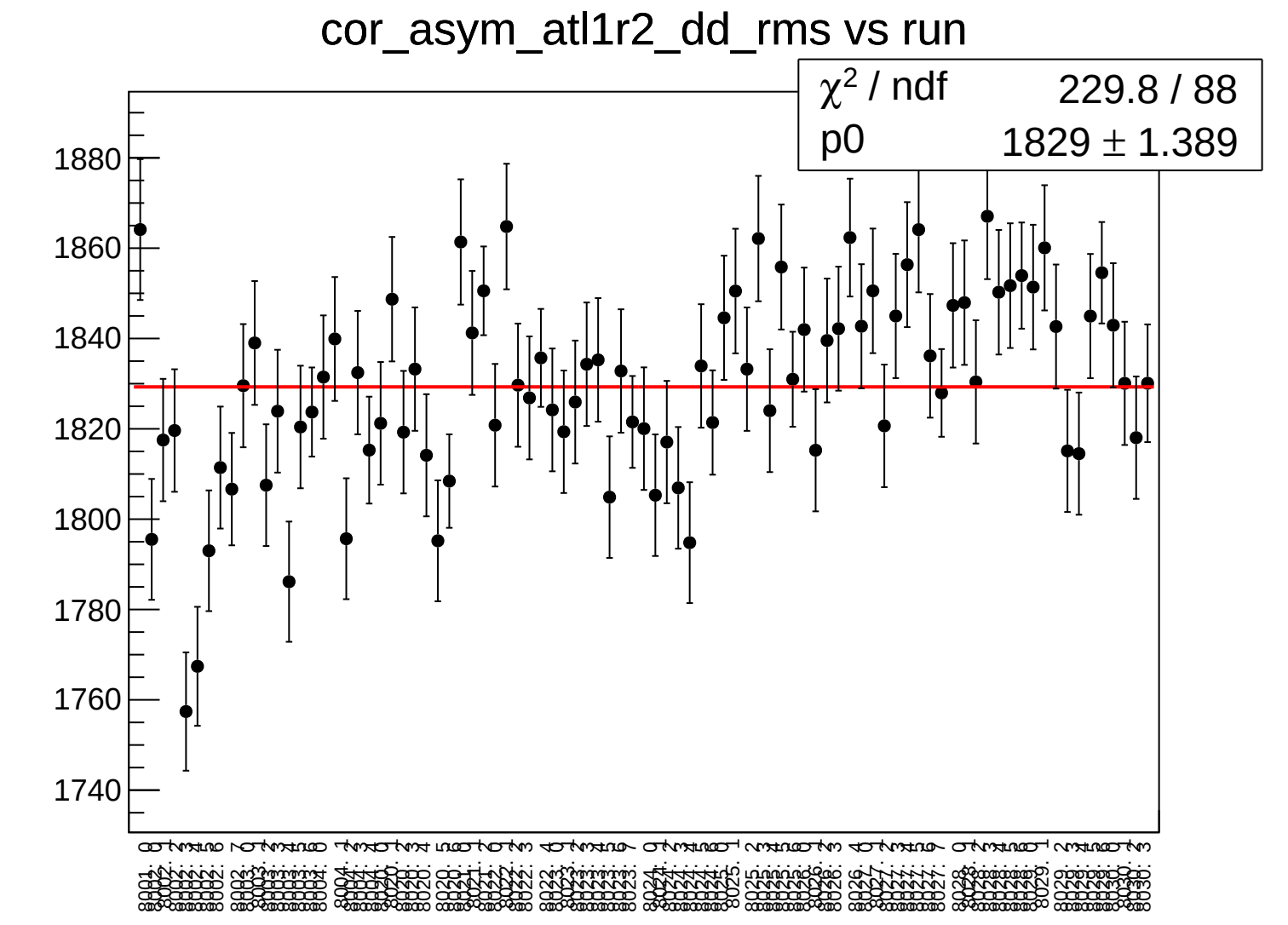

asym_atl1r2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 97.47 / 88
p0 −432.5 ± 7071
200
100
0
−100
−200
pull
Entries 89
Mean 161
Std Dev 0
2
1
0
−1
−2

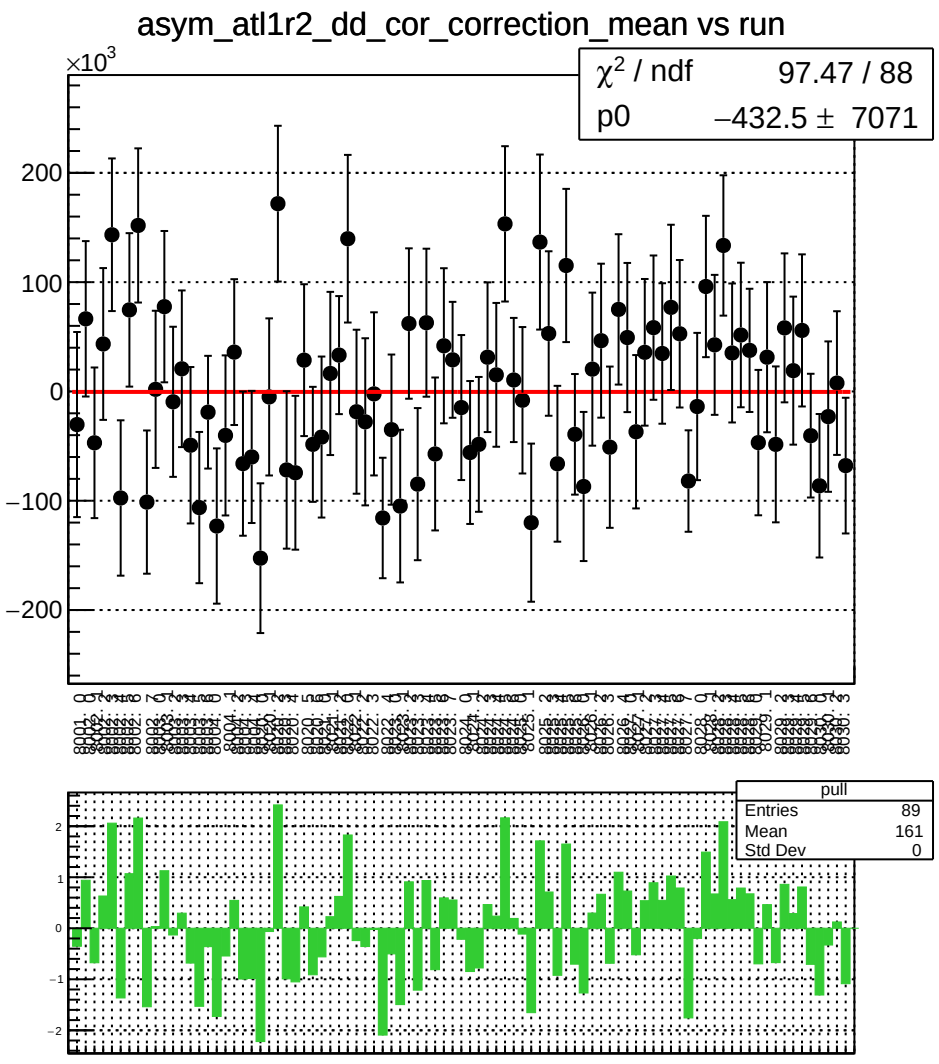

pull1D
Entries 89
Mean 0.02254
Std Dev 1.046
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

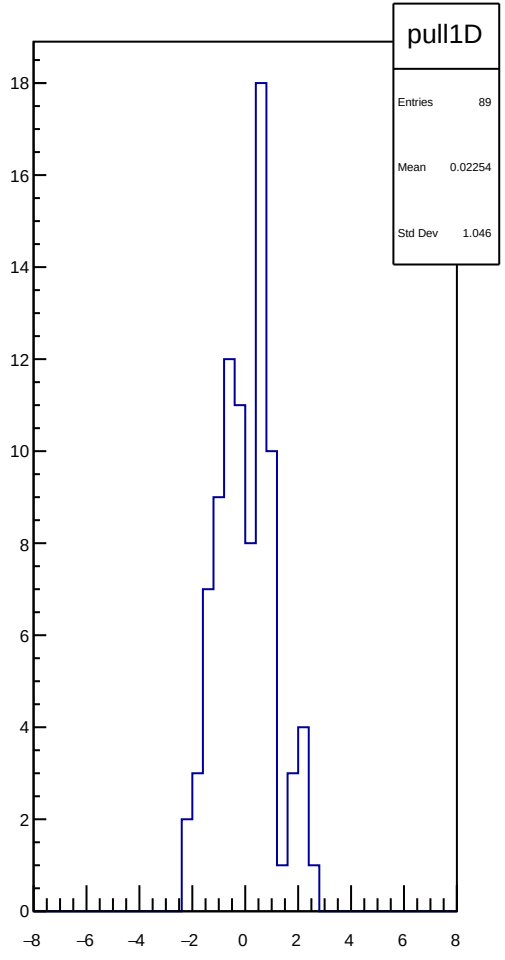

asym_atl1r2_dd_reg_correction_rms vs run
χ² / ndf 3869 / 88
p0 6578 ± 5
7800
7600
7400
7200
7000
6800
6600
6400
6200
6000
5800

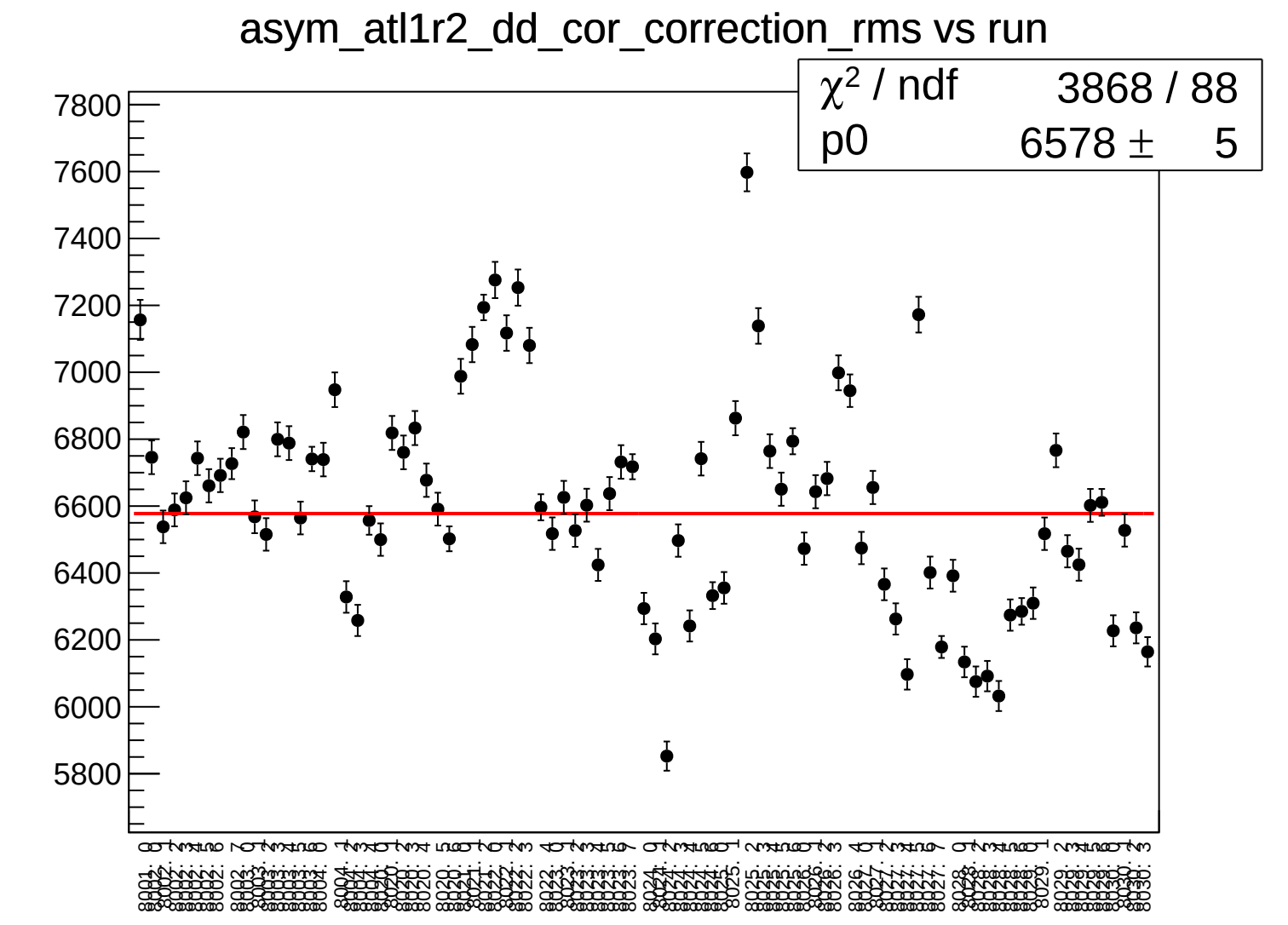

cor_asym_atl1r2_dd_mean vs run
χ² / ndf 77.85 / 88
p0 −2817 ± 1964
pull
Entries 89
Mean 275.7
Std Dev 0

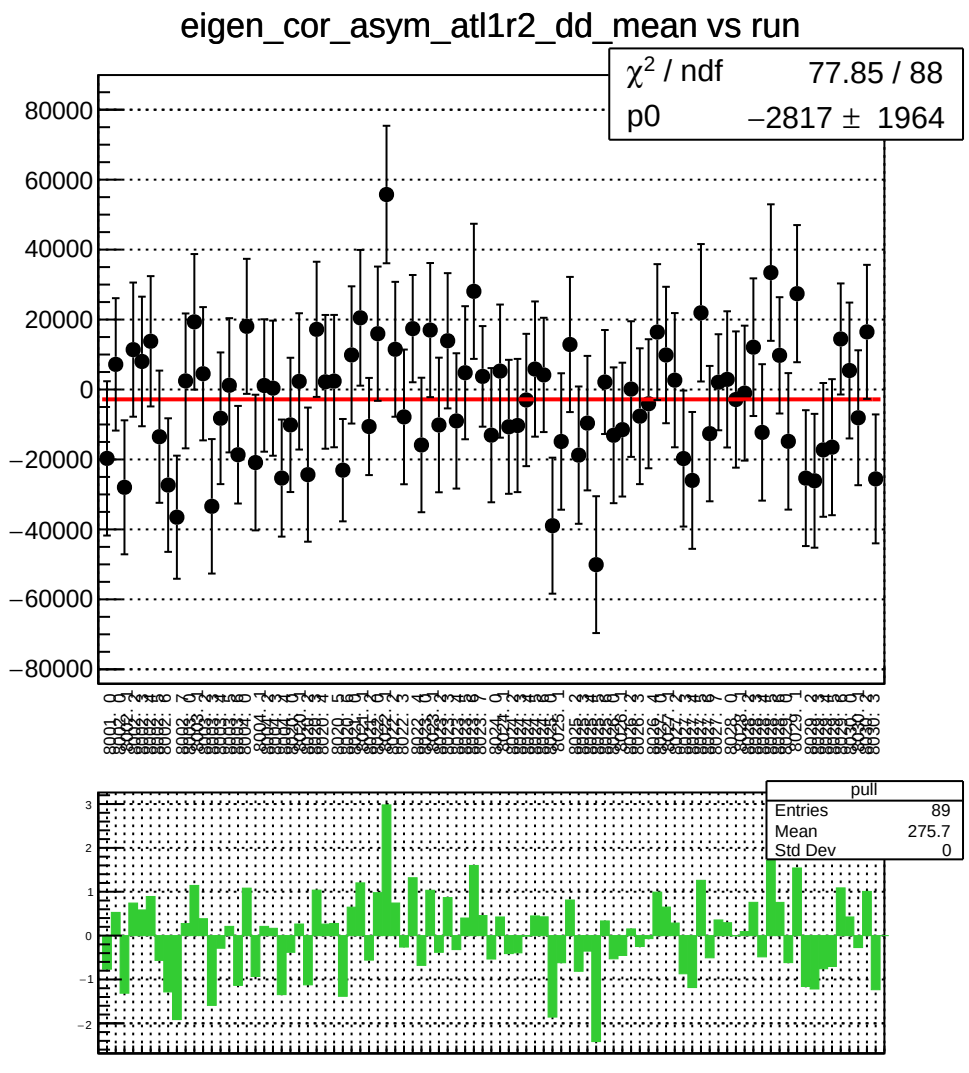

pull1D
Entries 89
Mean 0.003498
Std Dev 0.9353

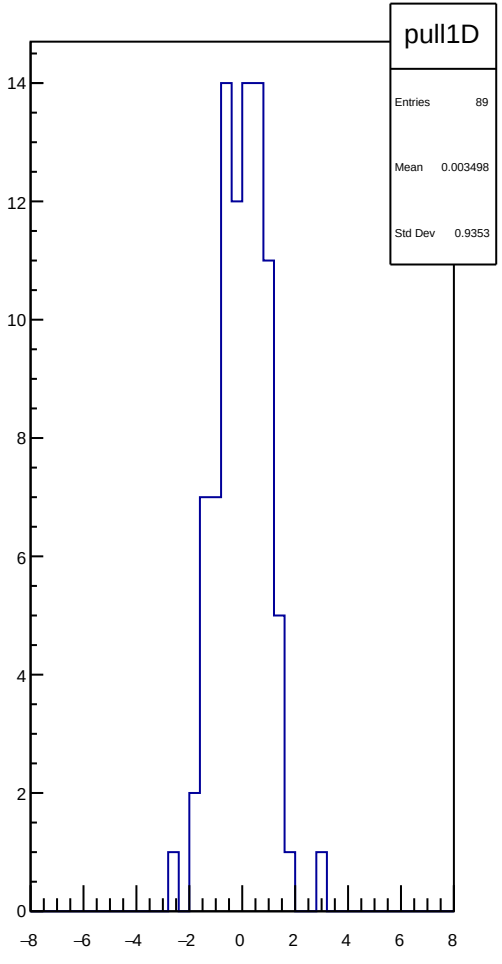

cor_asym_atl1r2_dd_rms vs run
χ^2 / ndf 229.8 / 88
p0 1829 ± 1.389
1880
1860
1840
1820
1800
1780
1760
1740

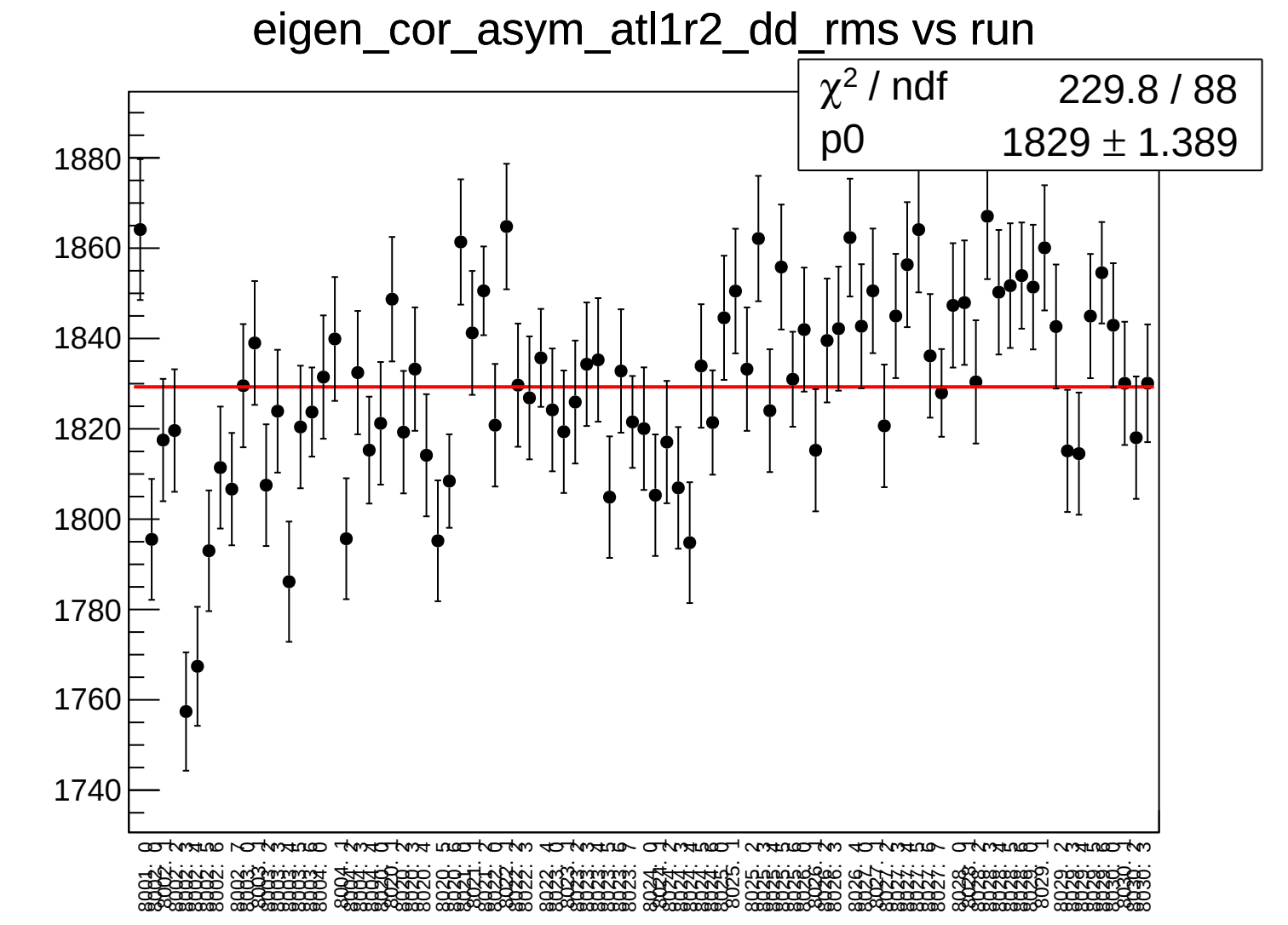

asym_atl1r2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 97.47 / 88
p0 −432.5 ± 7071
200
100
0
−100
−200
pull
Entries 89
Mean 161
Std Dev 0
2
1
0
−1
−2

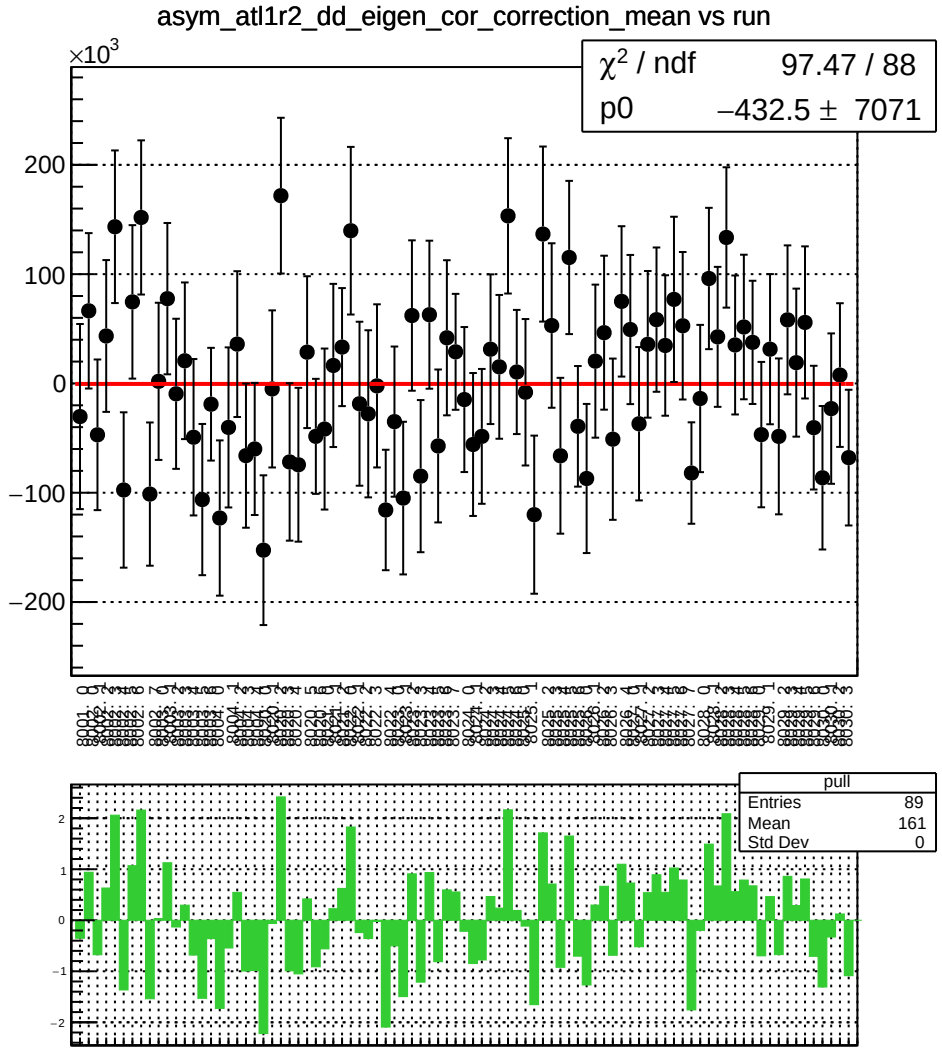

pull1D
Entries 89
Mean 0.02254
Std Dev 1.046
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

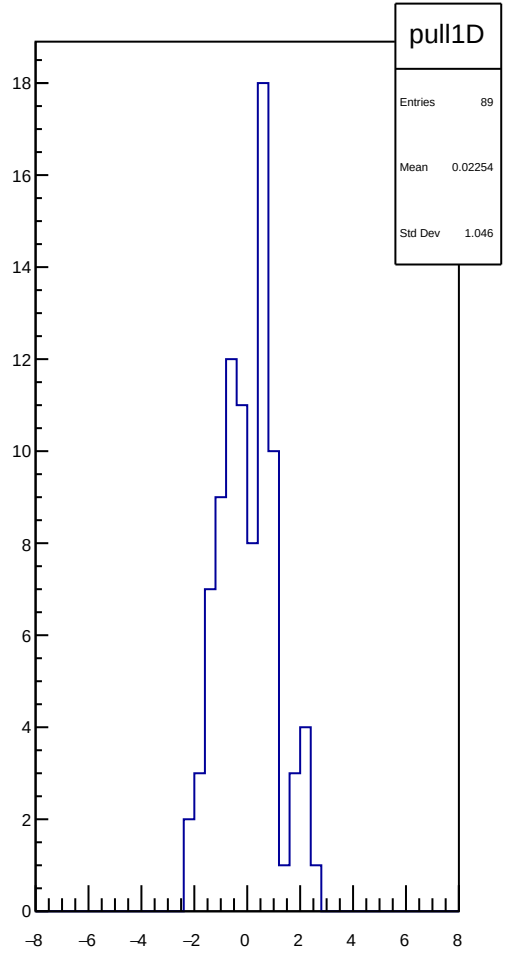

asym_atl1r2_dd_cor_correction_rms vs run
χ² / ndf 3868 / 88
p0 6578 ± 5
7800
7600
7400
7200
7000
6800
6600
6400
6200
6000
5800

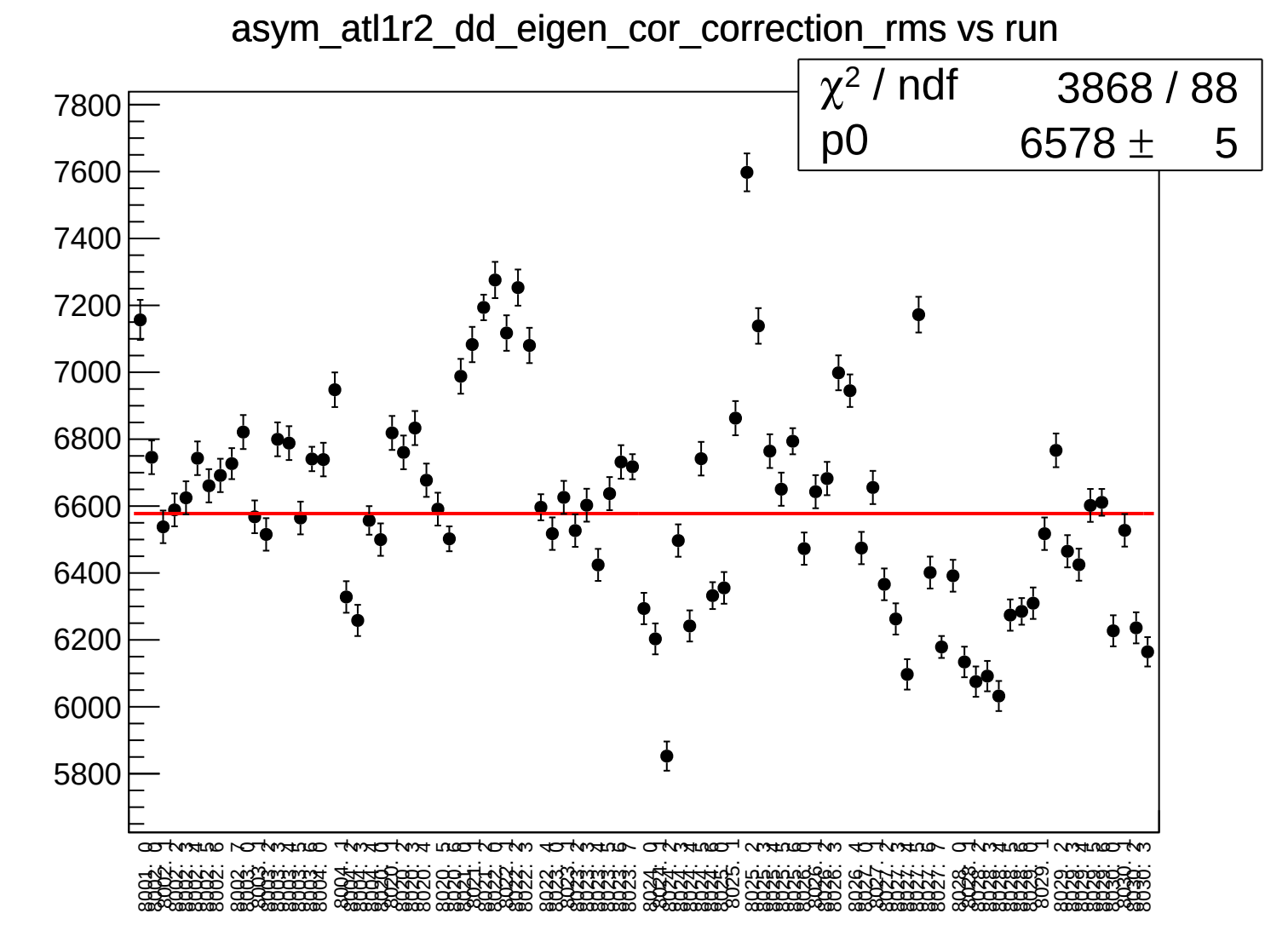

eigen_cor_asym_atl1r2_dd_mean vs run
χ² / ndf 77.85 / 88
p0 −2817 ± 1964
pull
Entries 89
Mean 275.7
Std Dev 0

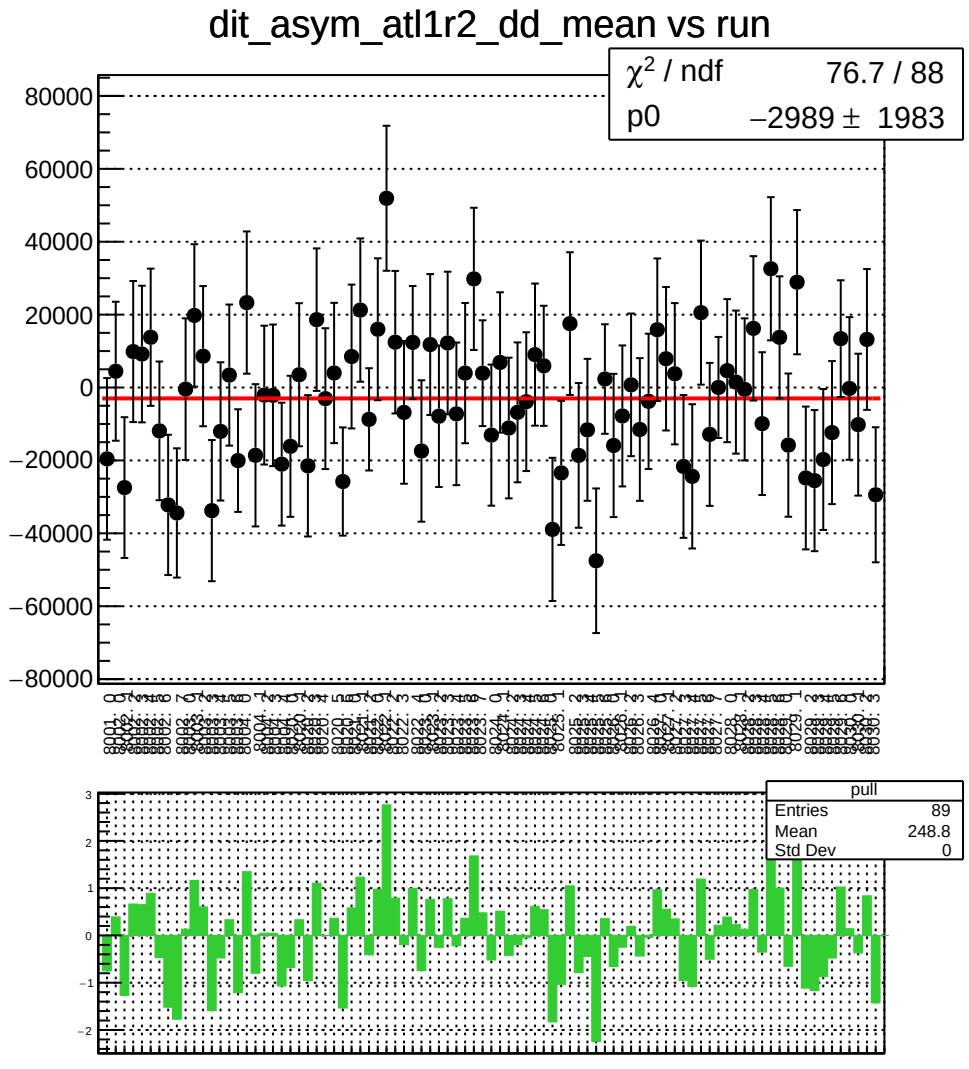

pull1D
Entries 89
Mean 0.003498
Std Dev 0.9353

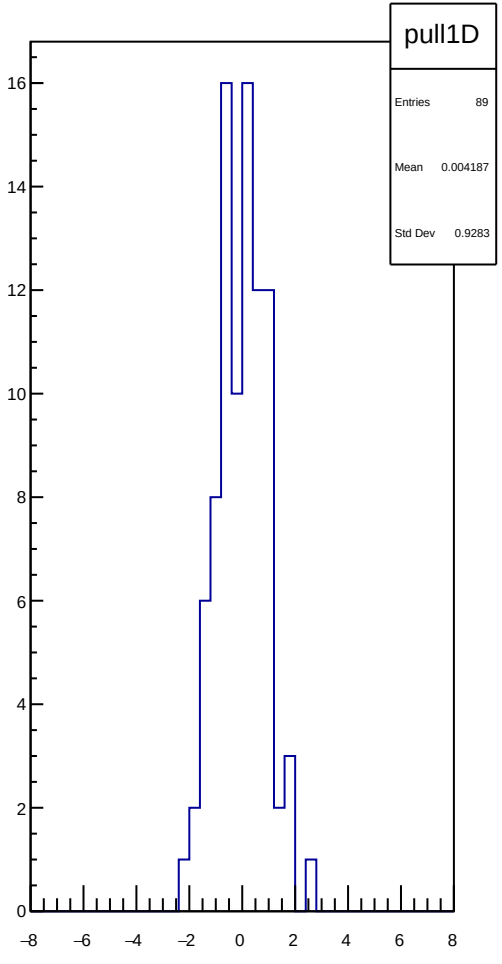

eigen_cor_asym_atl1r2_dd_rms vs run
χ^2 / ndf 229.8 / 88
p0 1829 ± 1.389
1880
1860
1840
1820
1800
1780
1760
1740

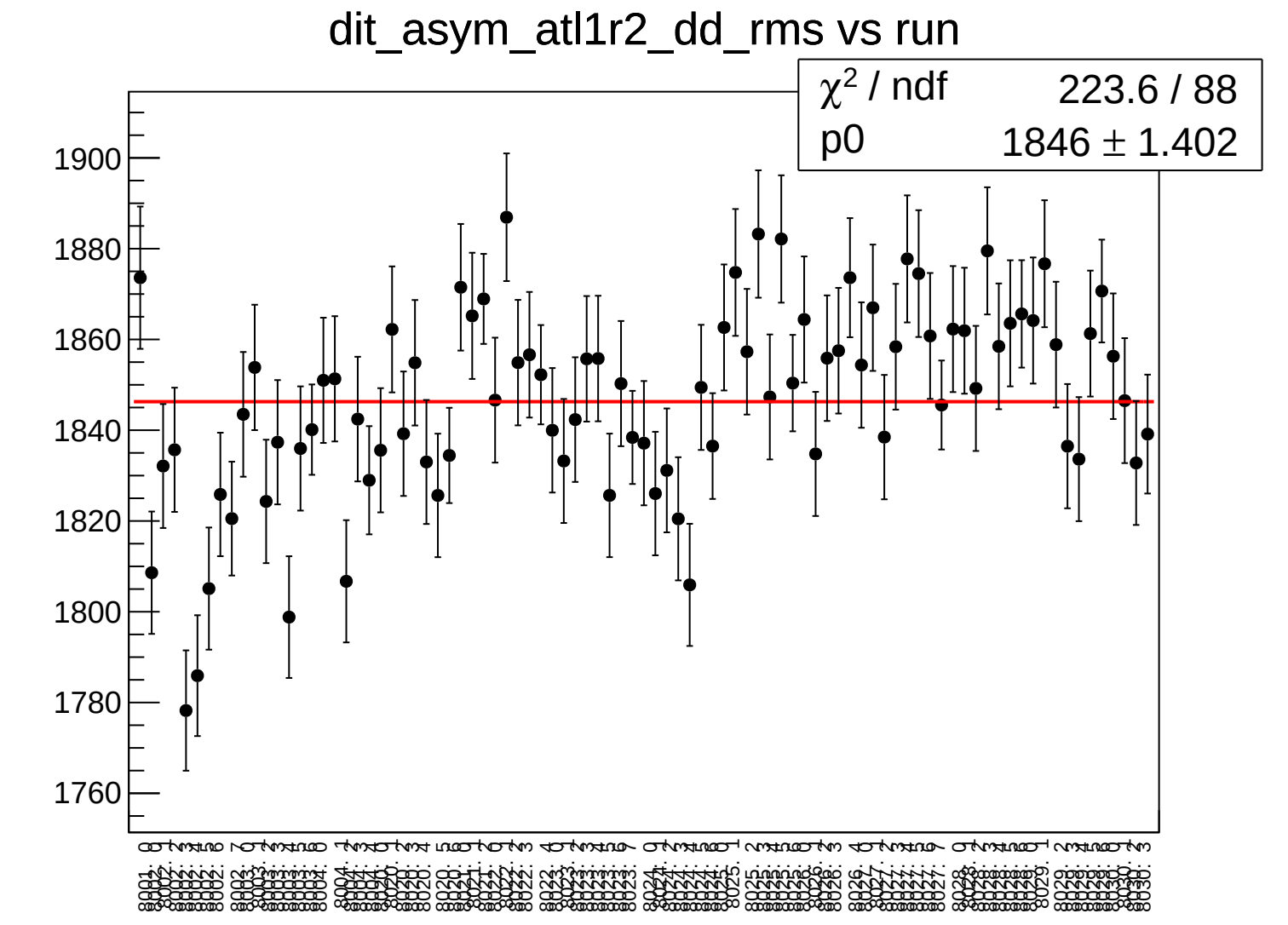

asym_atl1r2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 97.47 / 88
p0 −432.5 ± 7071
200
100
0
−100
−200
pull
Entries 89
Mean 161
Std Dev 0
2
1
0
−1
−2

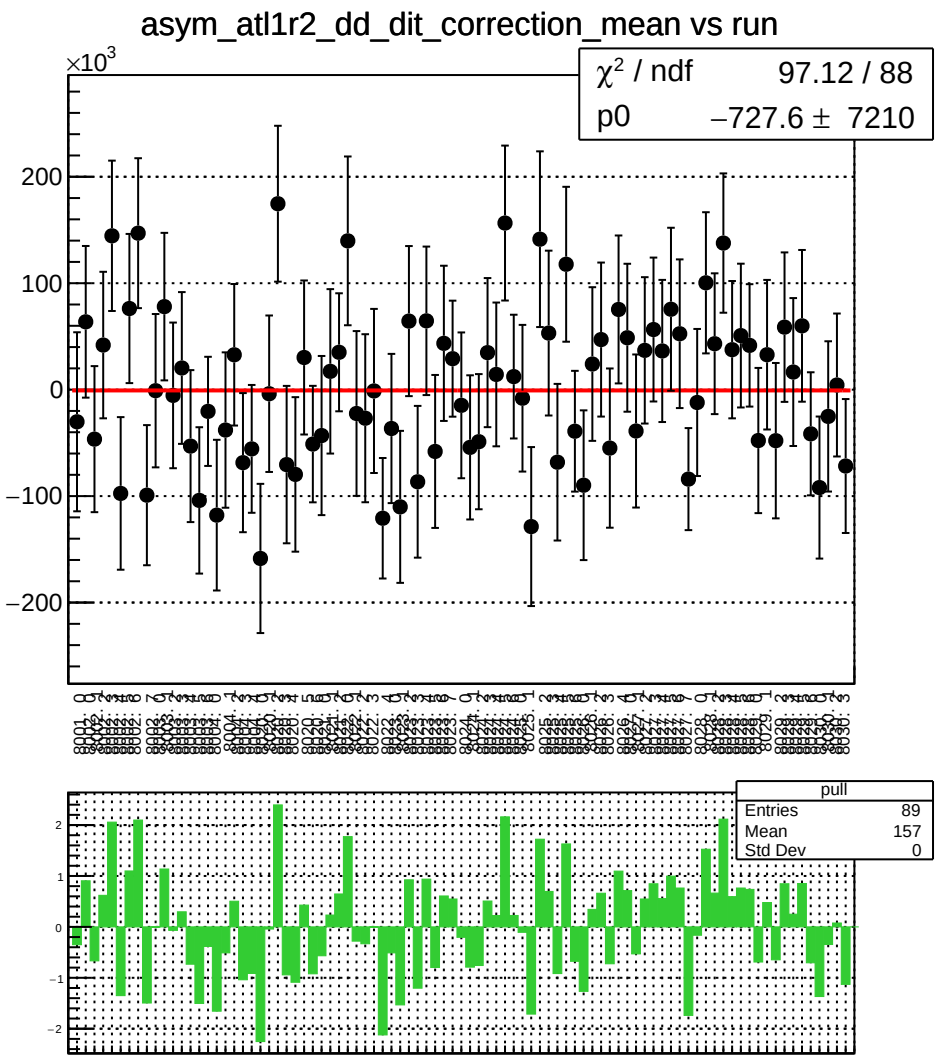

pull1D
Entries 89
Mean 0.02254
Std Dev 1.046
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

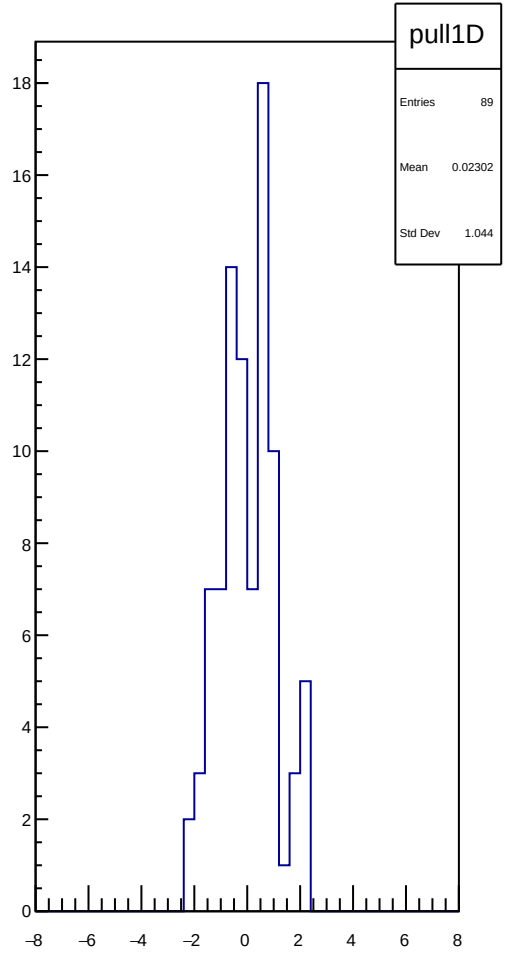

asym_atl1r2_dd_eigen_cor_correction_rms vs run
χ² / ndf 3868 / 88
p0 6578 ± 5
7800
7600
7400
7200
7000
6800
6600
6400
6200
6000
5800

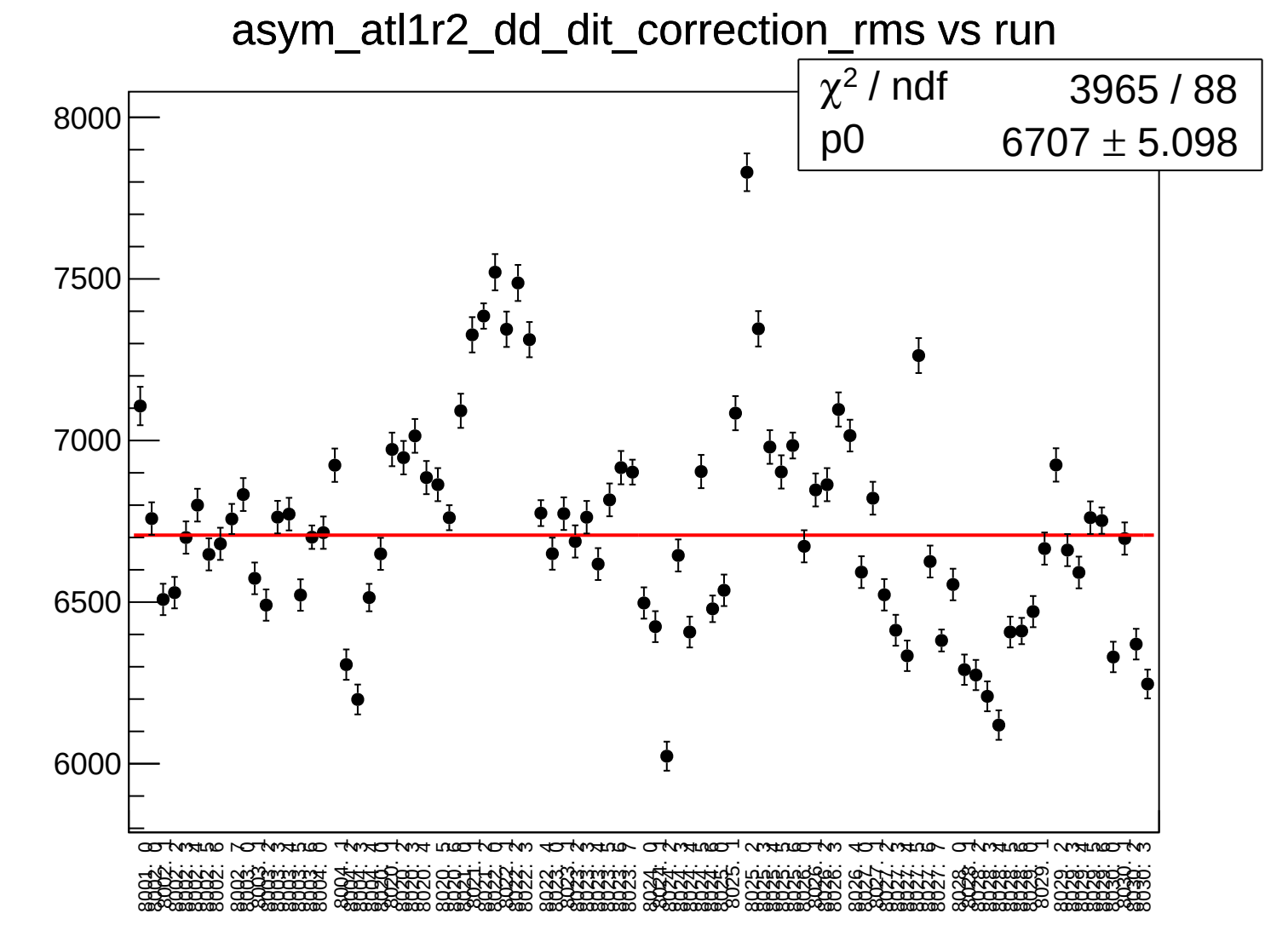

dit_asym_atl1r2_dd_mean vs run
χ² / ndf 76.7 / 88
p0 −2989 ± 1983
pull
Entries 89
Mean 248.8
Std Dev 0

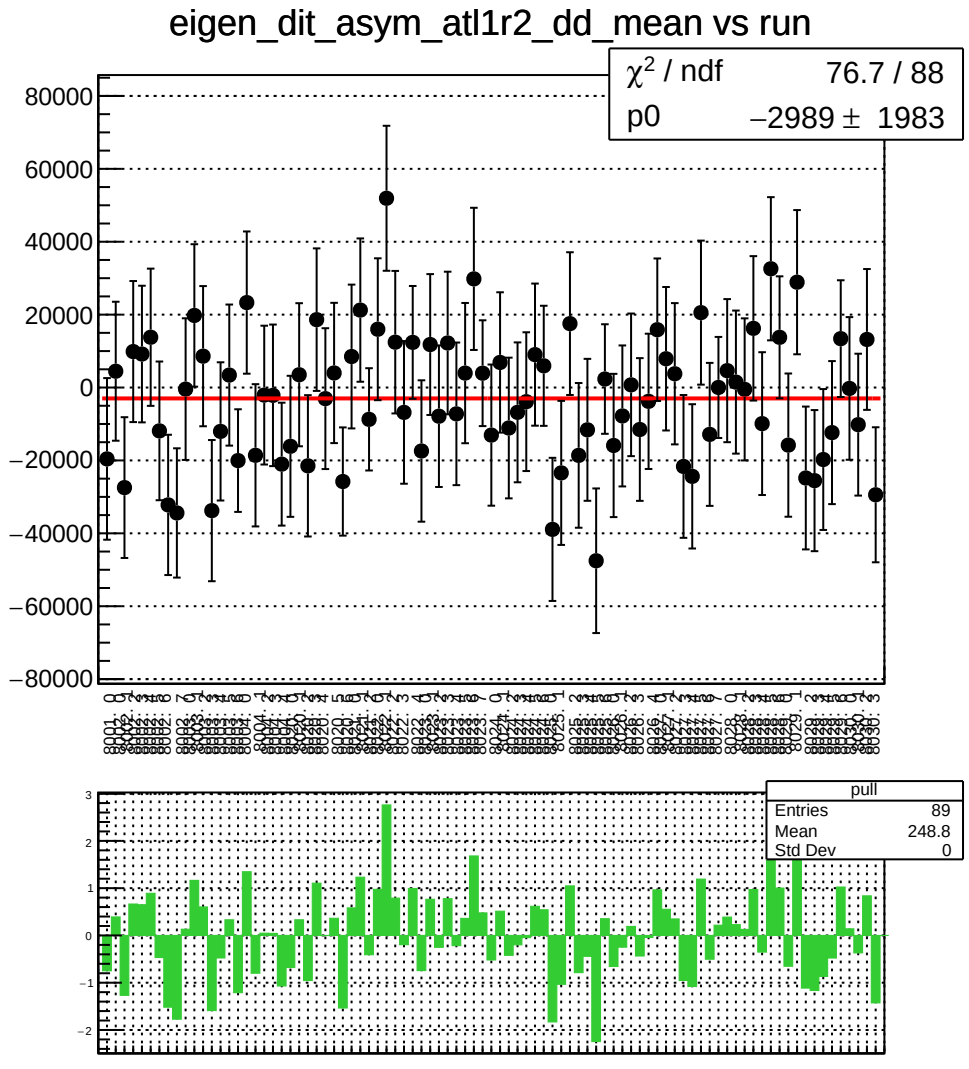

pull1D
Entries 89
Mean 0.004187
Std Dev 0.9283

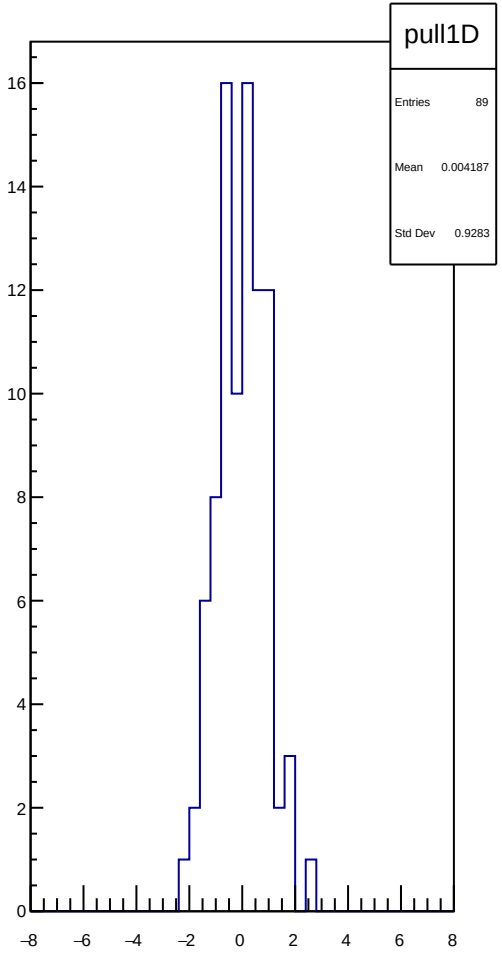

dit_asym_atl1r2_dd_rms vs run
χ² / ndf 223.6 / 88
p0 1846 ± 1.402
1900
1880
1860
1840
1820
1800
1780
1760

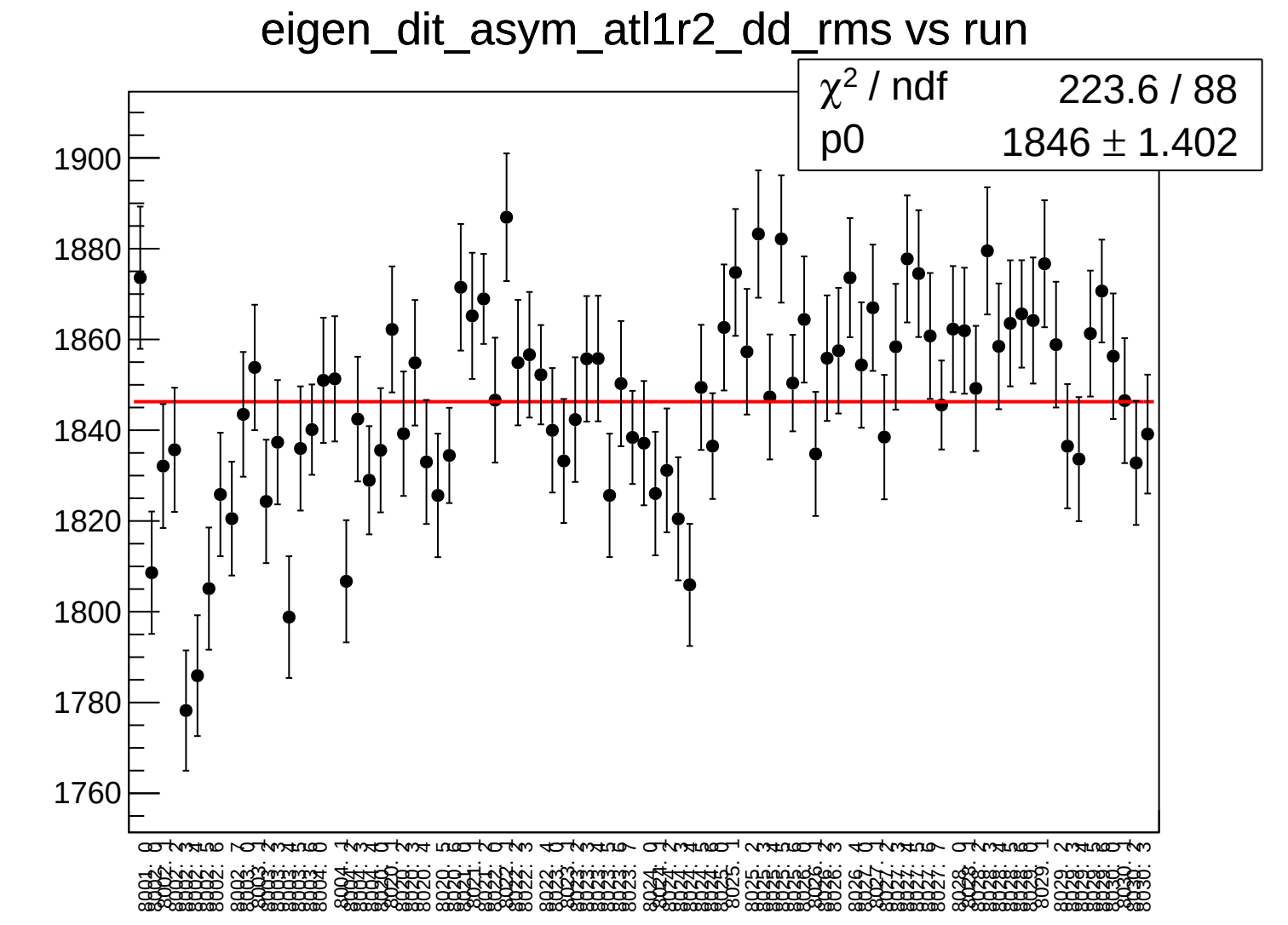

asym_atl1r2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 97.12 / 88
p0 −727.6 ± 7210
200
100
0
−100
−200
pull
Entries 89
Mean 157
Std Dev 0
2
1
0
−1
−2

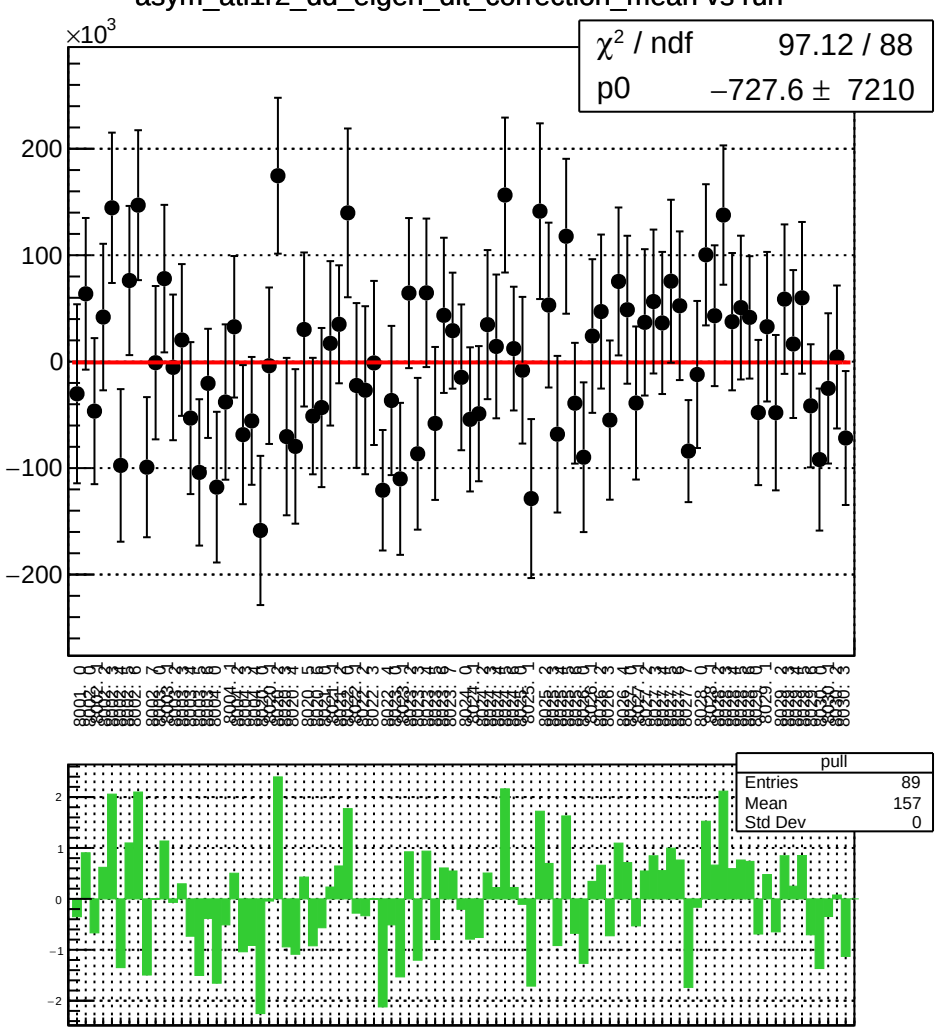

pull1D
Entries 89
Mean 0.02302
Std Dev 1.044
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

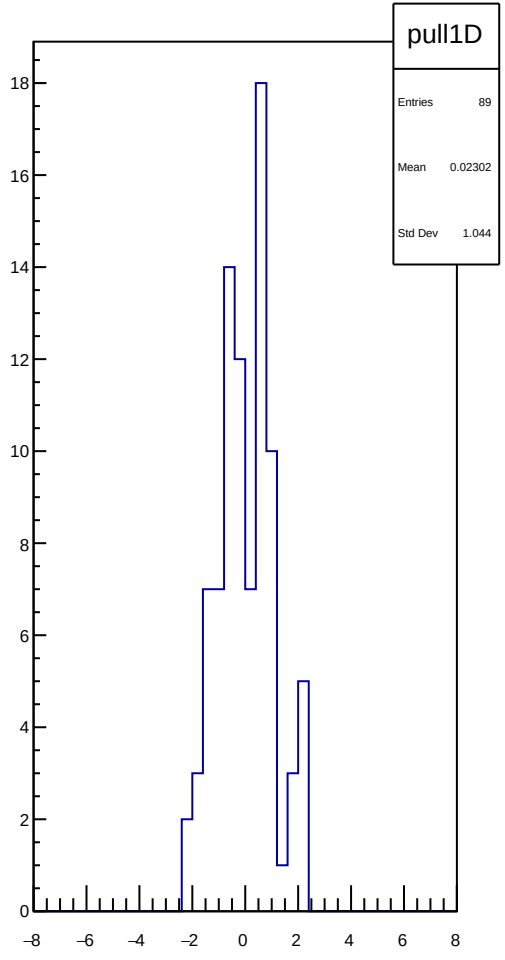

asym_atl1r2_dd_dit_correction_rms vs run
χ² / ndf 3965 / 88
p0 6707 ± 5.098
8000
7500
7000
6500
6000

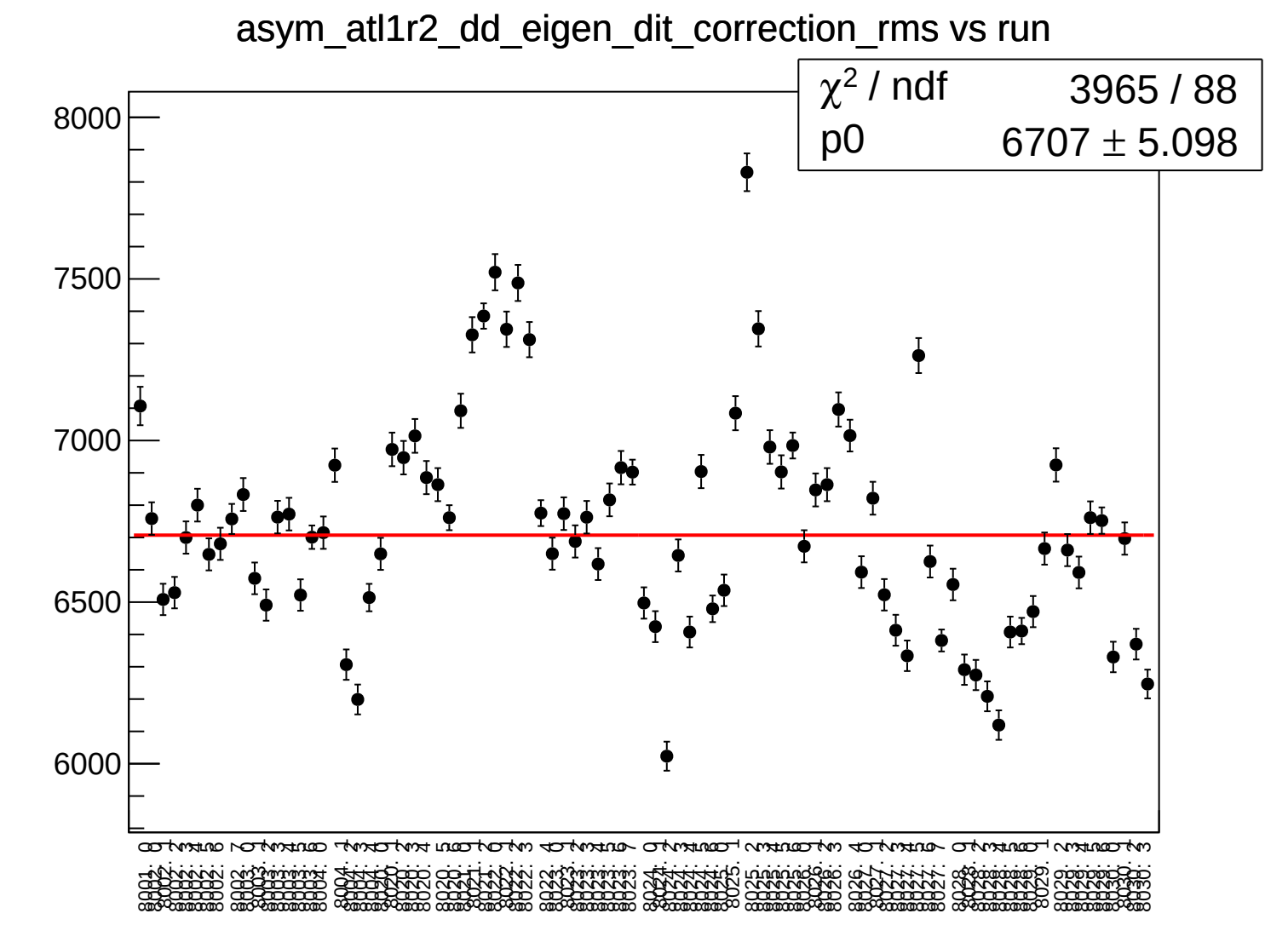

eigen_dit_asym_atl1r2_dd_mean vs run
χ² / ndf 76.7 / 88
p0 −2989 ± 1983
pull
Entries 89
Mean 248.8
Std Dev 0

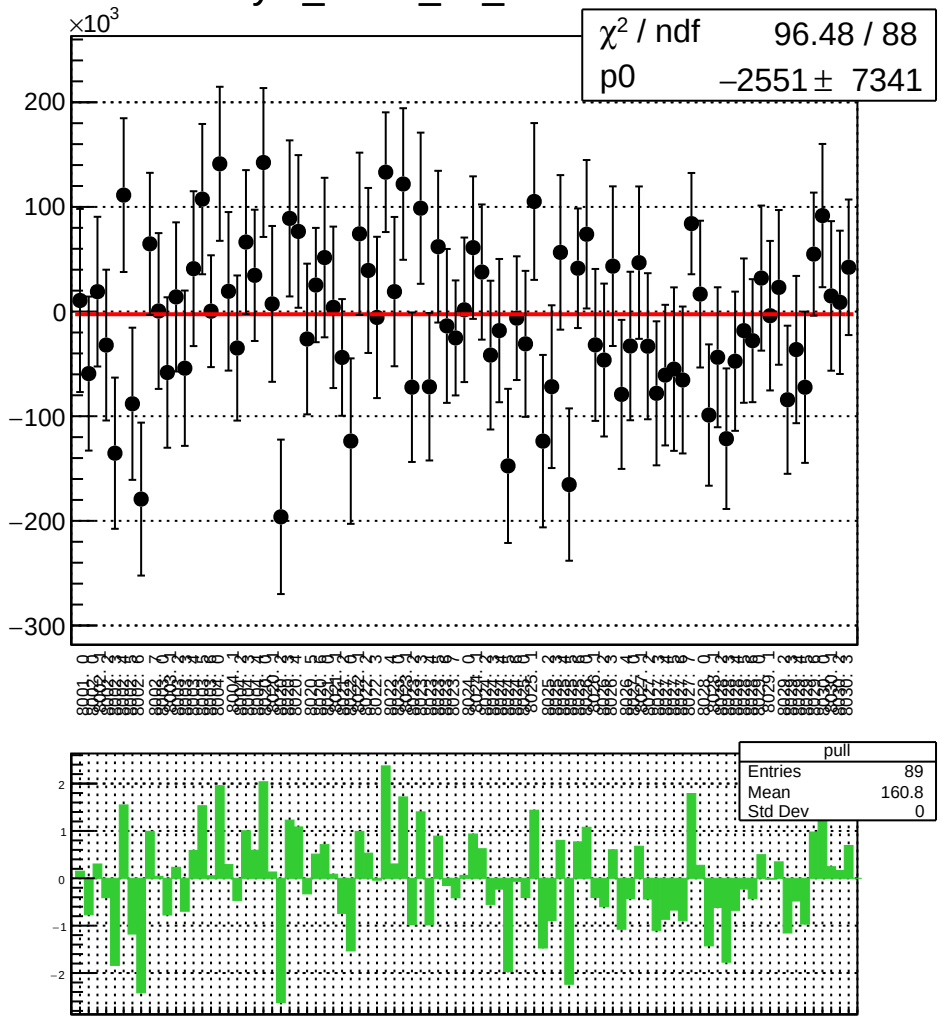

pull1D
Entries 89
Mean 0.004187
Std Dev 0.9283

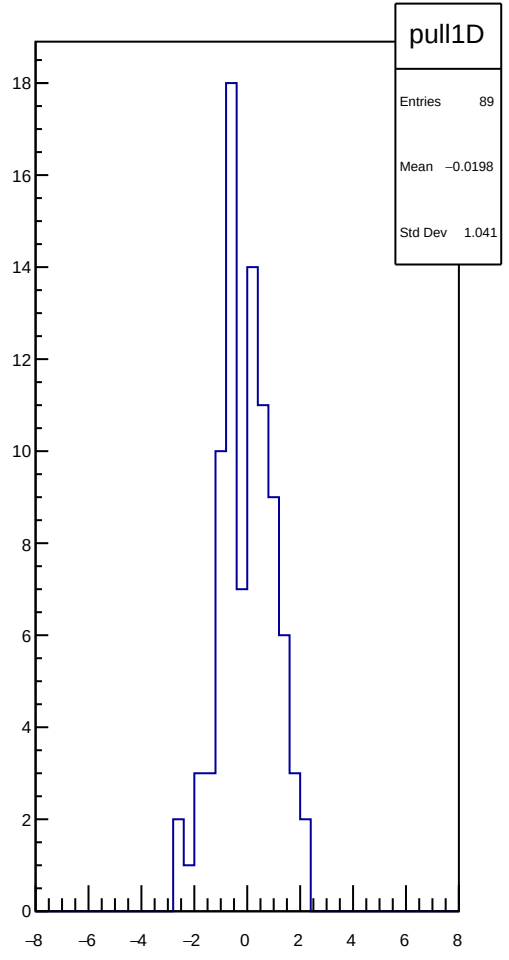

eigen_dit_asym_atl1r2_dd_rms vs run
χ^2 / ndf 223.6 / 88
p0 1846 ± 1.402
1900
1880
1860
1840
1820
1800
1780
1760

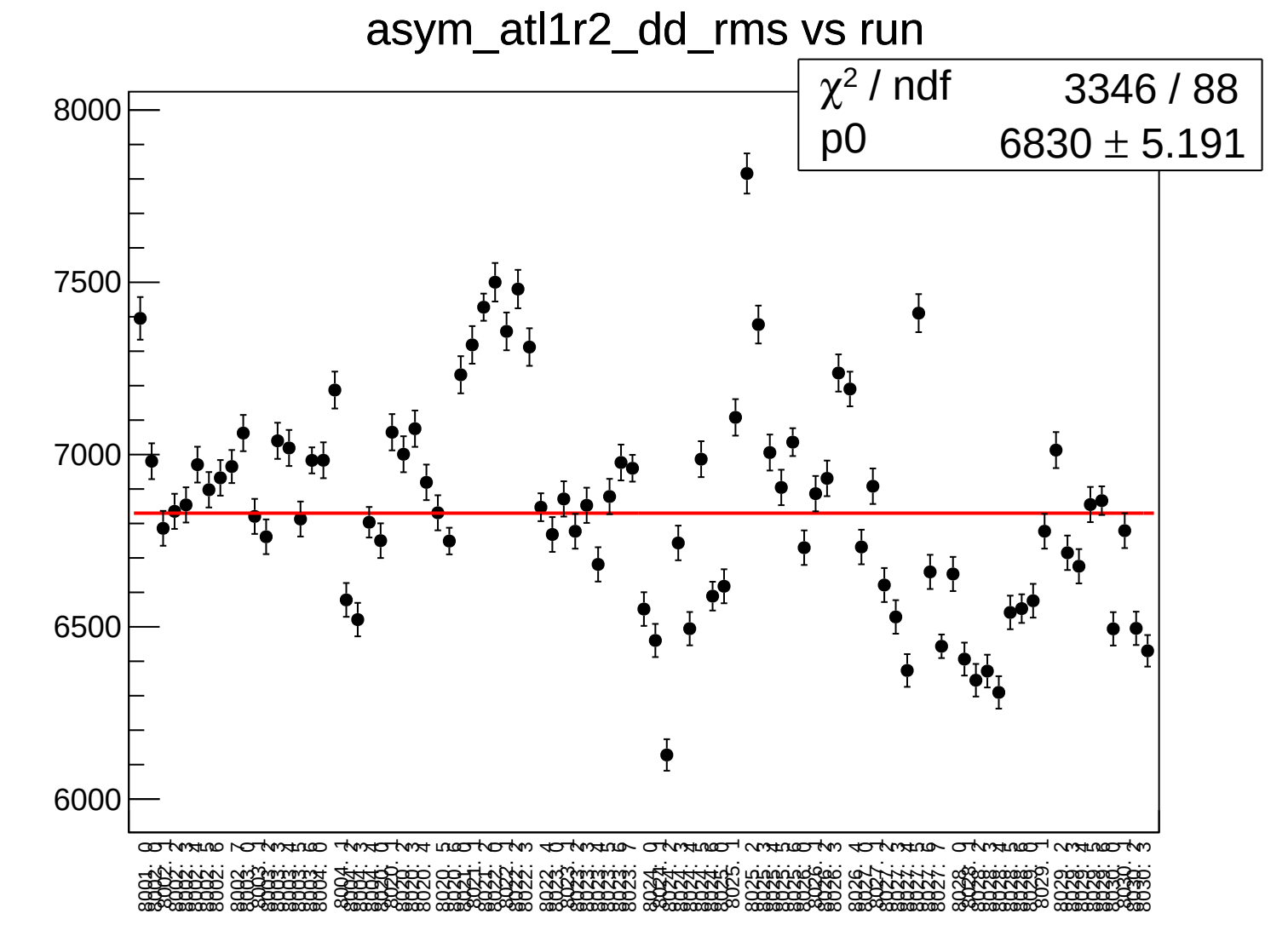

asym_atl1r2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 97.12 / 88
p0 −727.6 ± 7210
200
100
0
−100
−200
pull
Entries 89
Mean 157
Std Dev 0
2
1
0
−1
−2

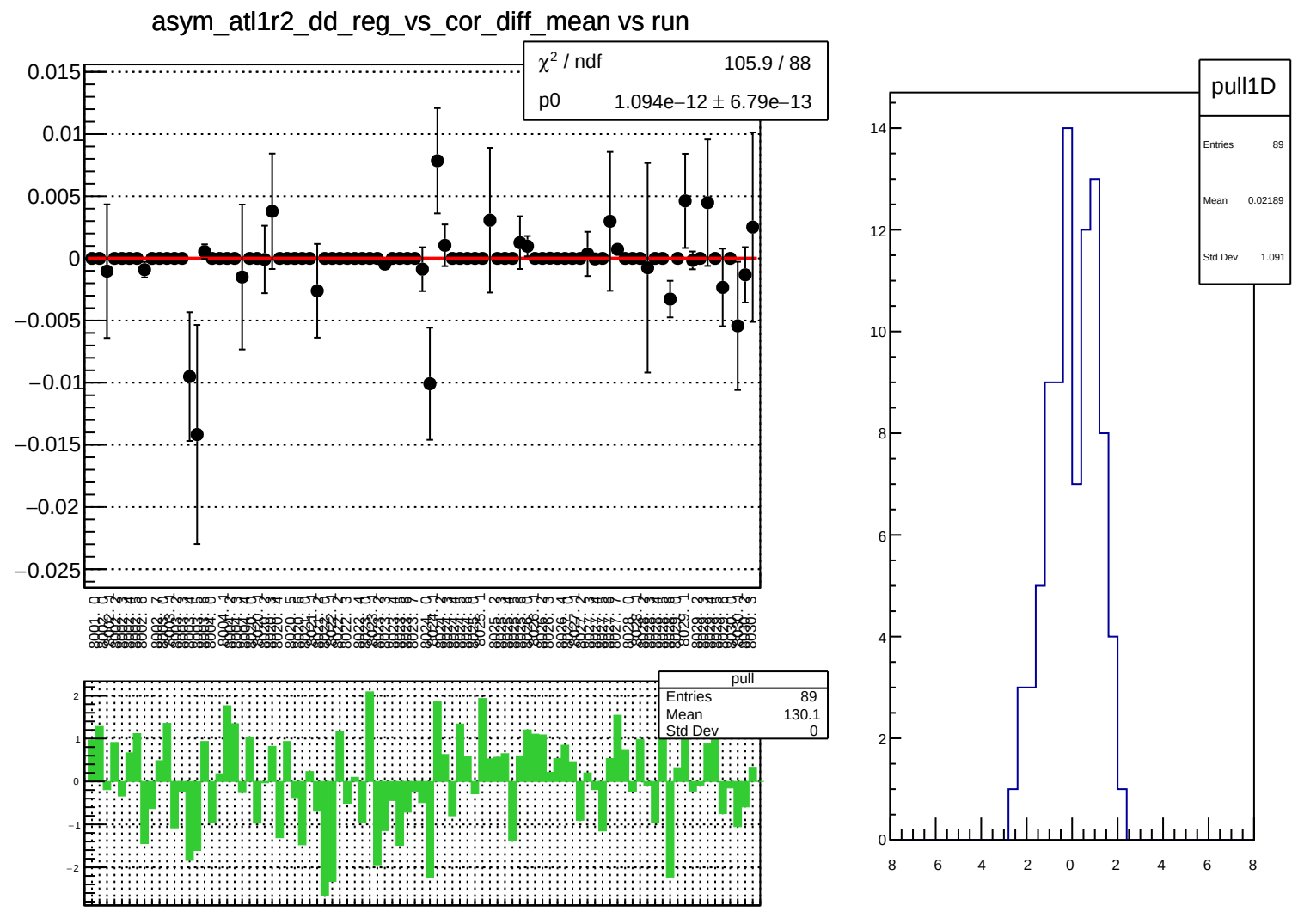

pull1D
Entries 89
Mean 0.02302
Std Dev 1.044
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

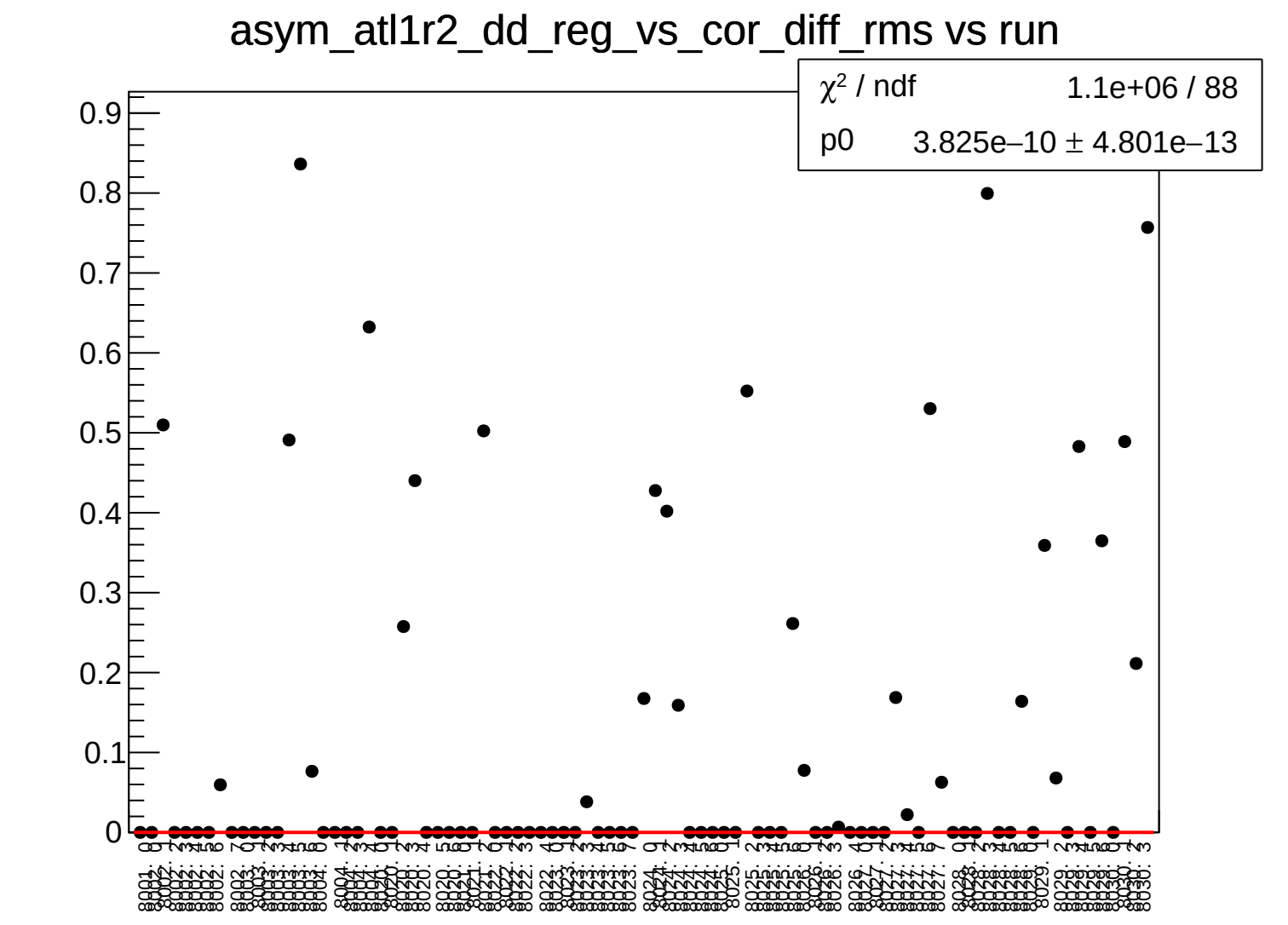

asym_atl1r2_dd_eigen_dit_correction_rms vs run
χ² / ndf 3965 / 88
p0 6707 ± 5.098
8000
7500
7000
6500
6000

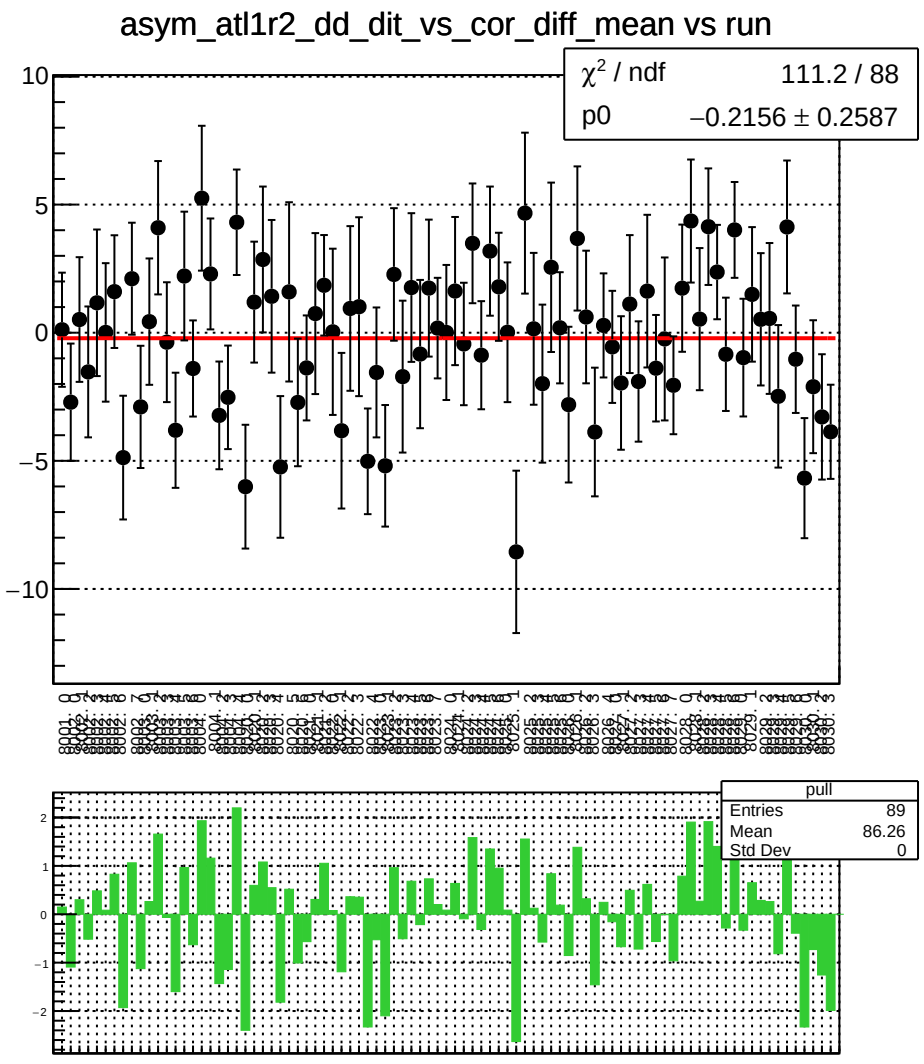

asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 96.48 / 88
p0 −2551 ± 7341
200
100
0
−100
−200
−300
pull
Entries 89
Mean 160.8
Std Dev 0
2
1
0
−1
−2

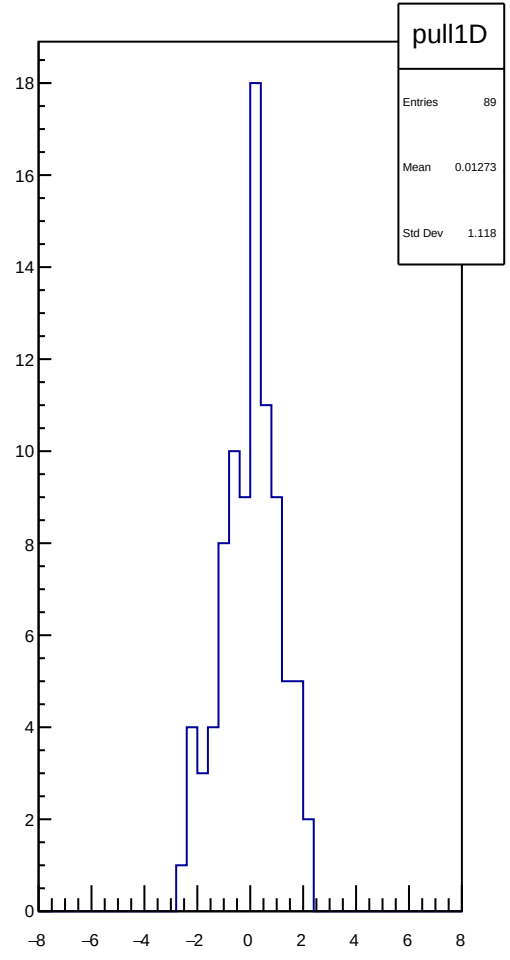

pull1D
Entries 89
Mean −0.0198
Std Dev 1.041
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

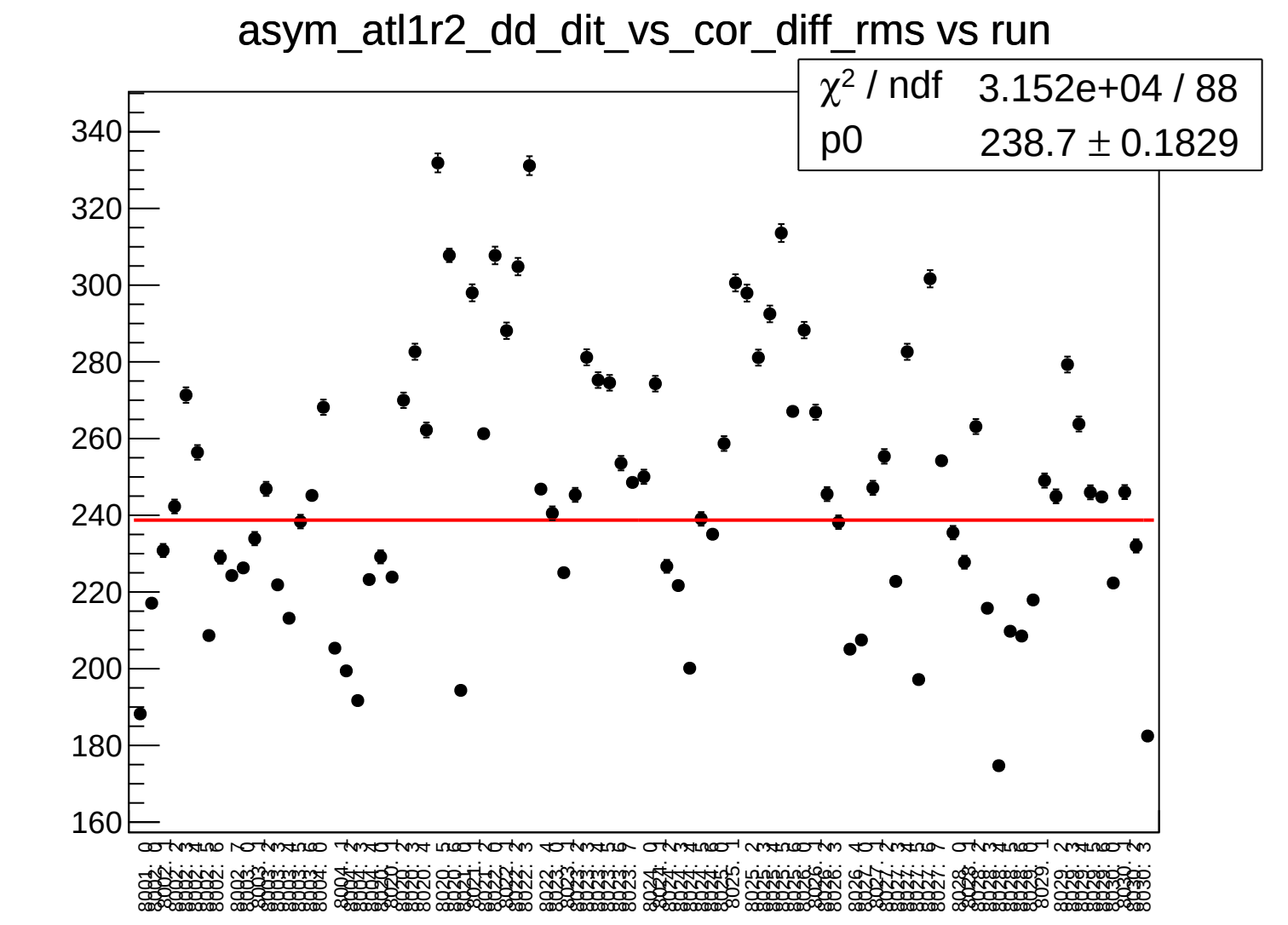

asym_atl1r2_dd_rms vs run
χ² / ndf 3346 / 88
p0 6830 ± 5.191
8000
7500
7000
6500
6000

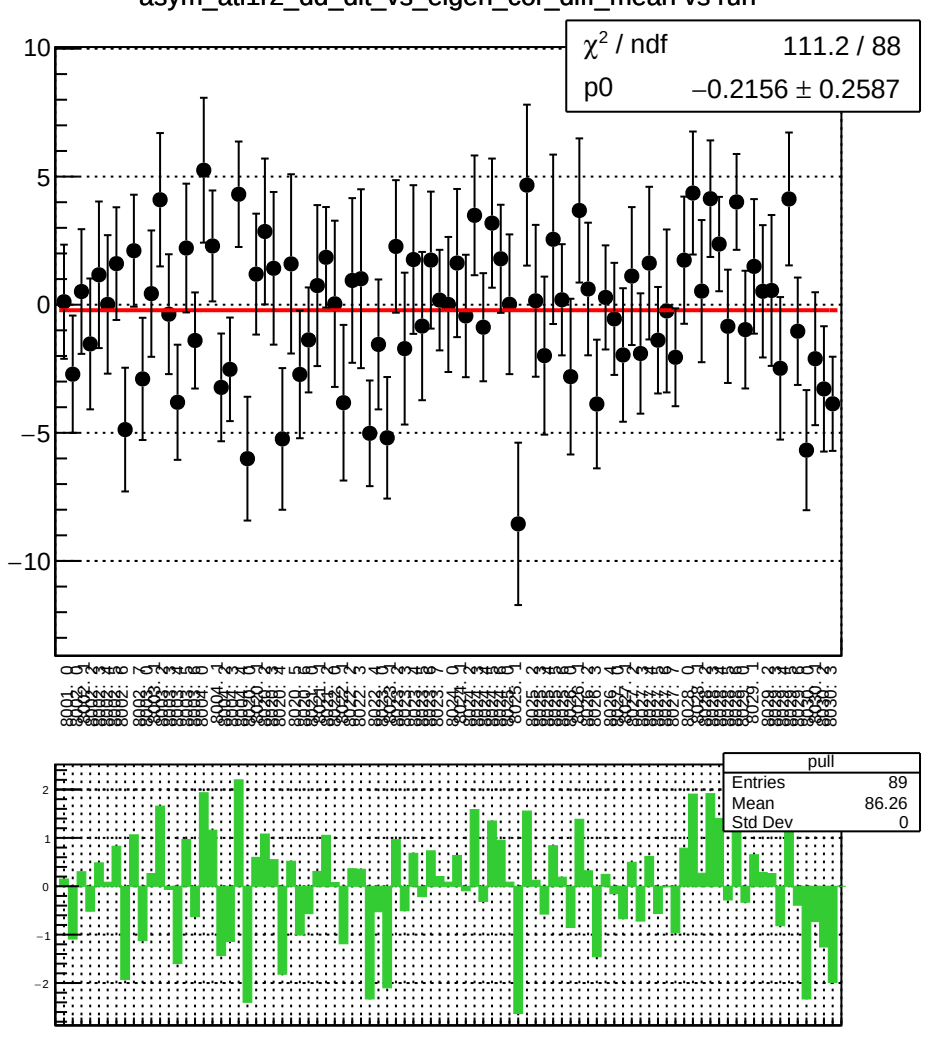

asym_atl1r2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 105.9 / 88
p0 1.094e−12 ± 6.79e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
−0.025
pull
Entries 89
Mean 130.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.02189
Std Dev 1.091
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

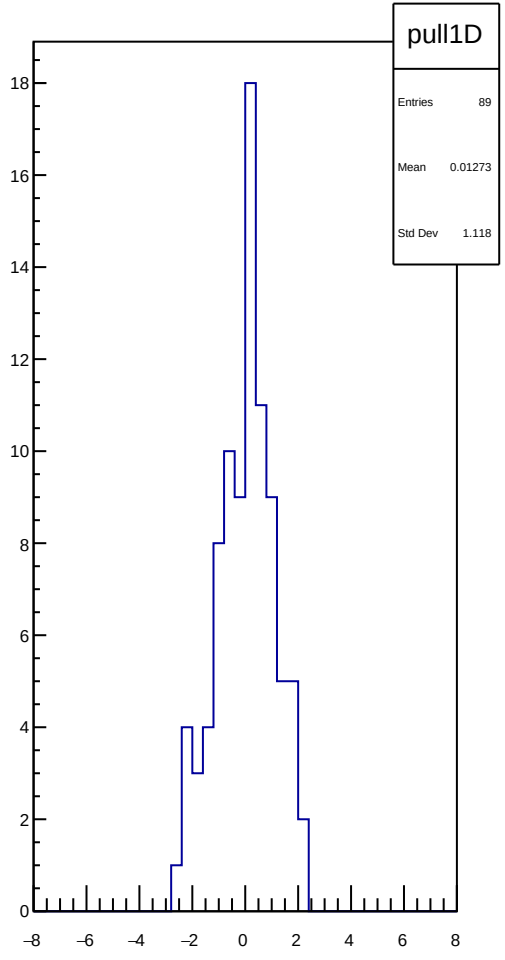

asym_atl1r2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.1e+06 / 88
p0 3.825e−10 ± 4.801e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

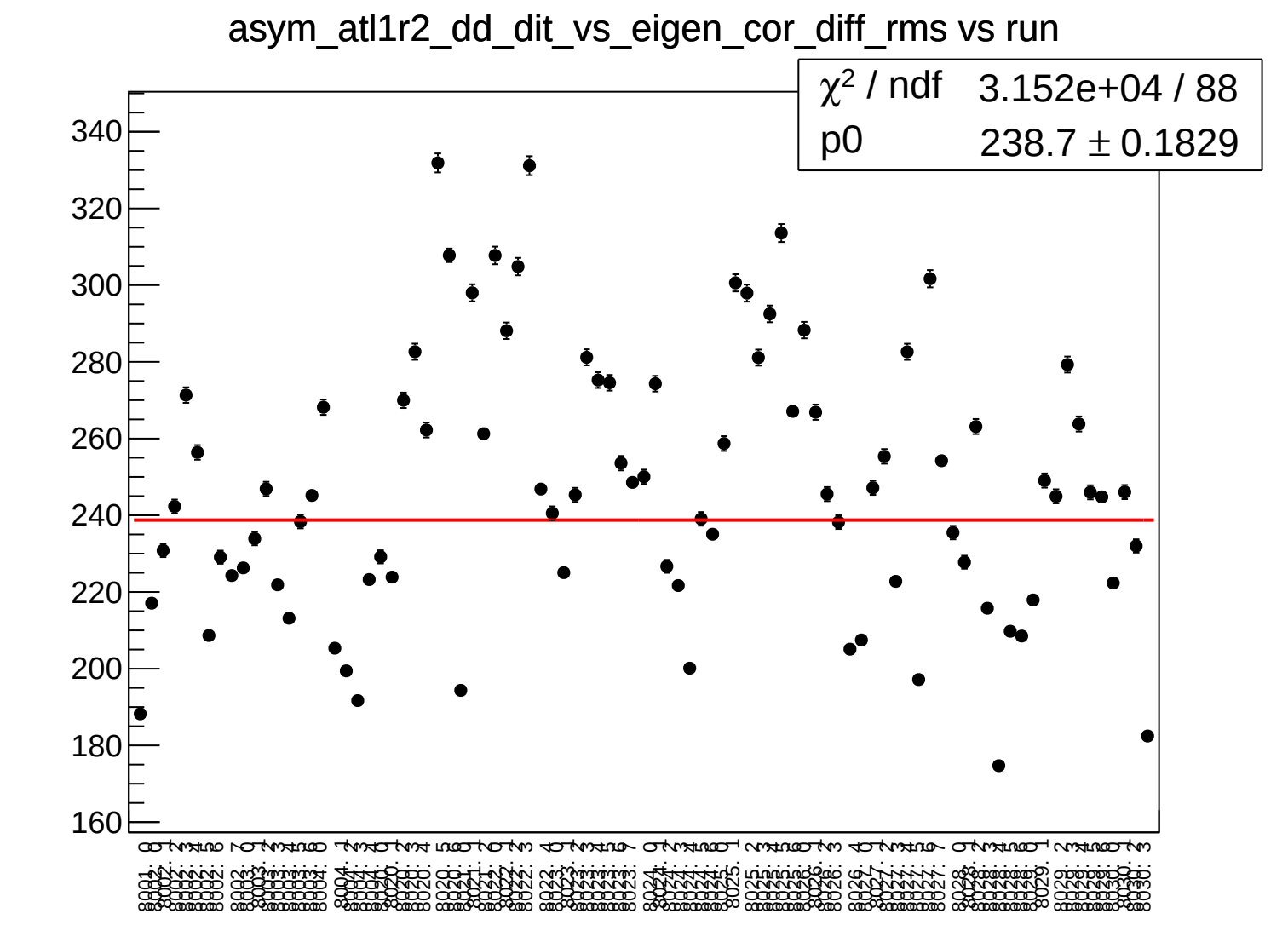

asym_atl1r2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 111.2 / 88
p0 −0.2156 ± 0.2587
pull
Entries 89
Mean 86.26
Std Dev 0

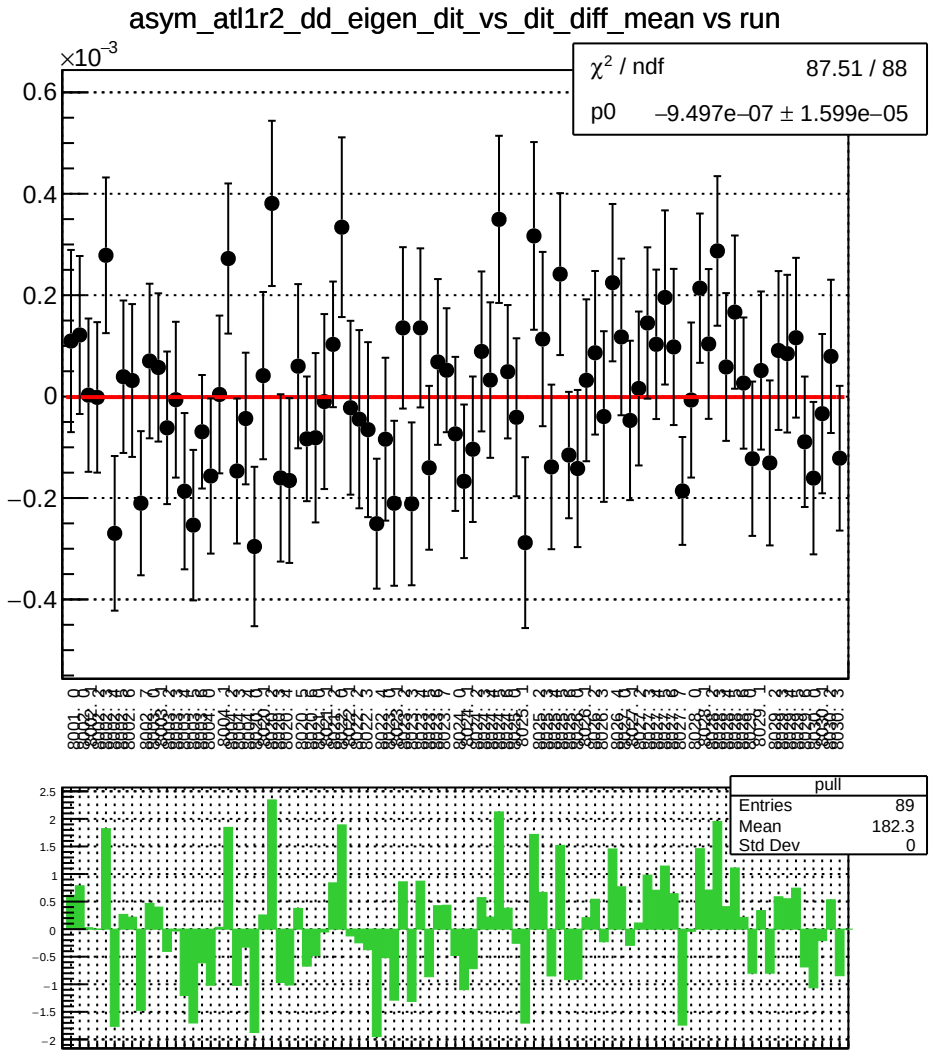

pull1D
Entries 89
Mean 0.01273
Std Dev 1.118

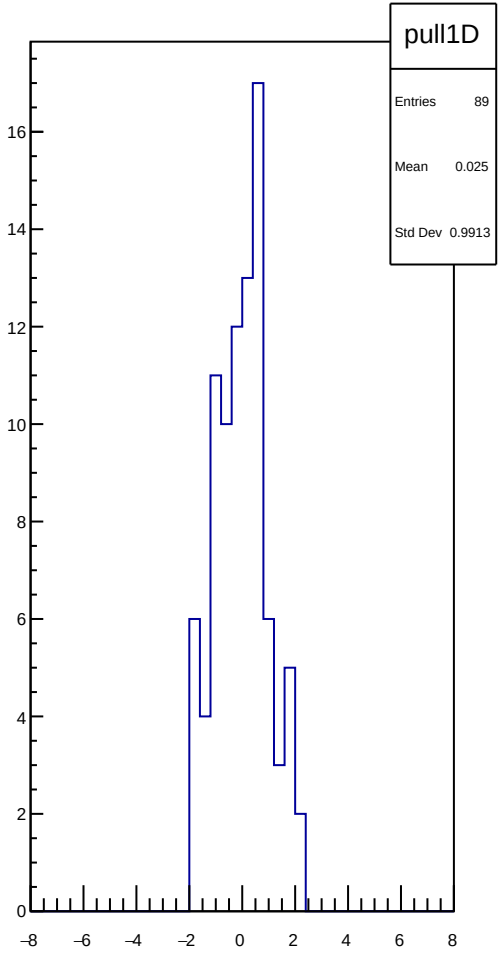

asym_atl1r2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.152e+04 / 88
p0 238.7 ± 0.1829
340
320
300
280
260
240
220
200
180
160

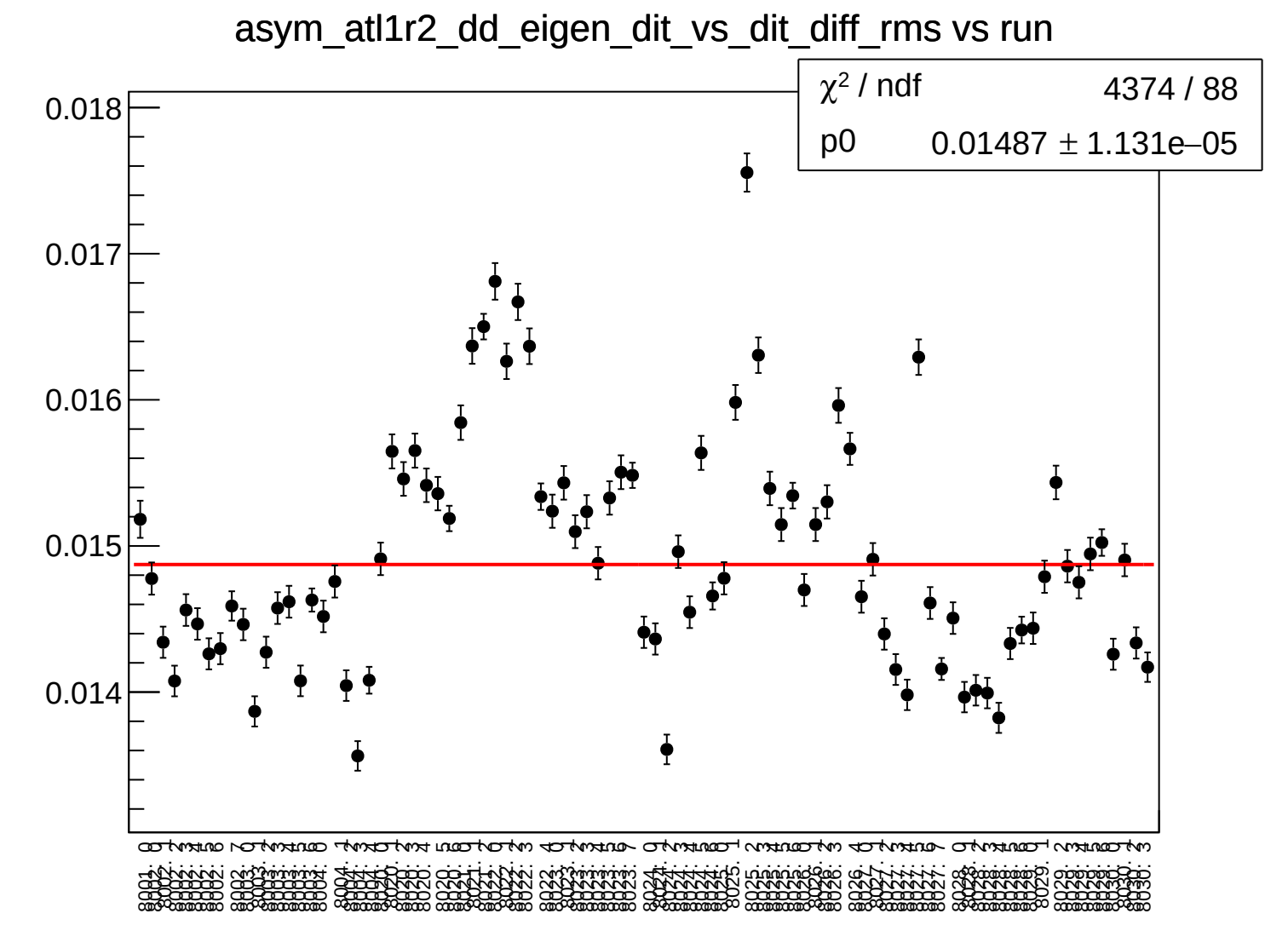

asym_atl1r2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 111.2 / 88
p0 −0.2156 ± 0.2587
pull
Entries 89
Mean 86.26
Std Dev 0

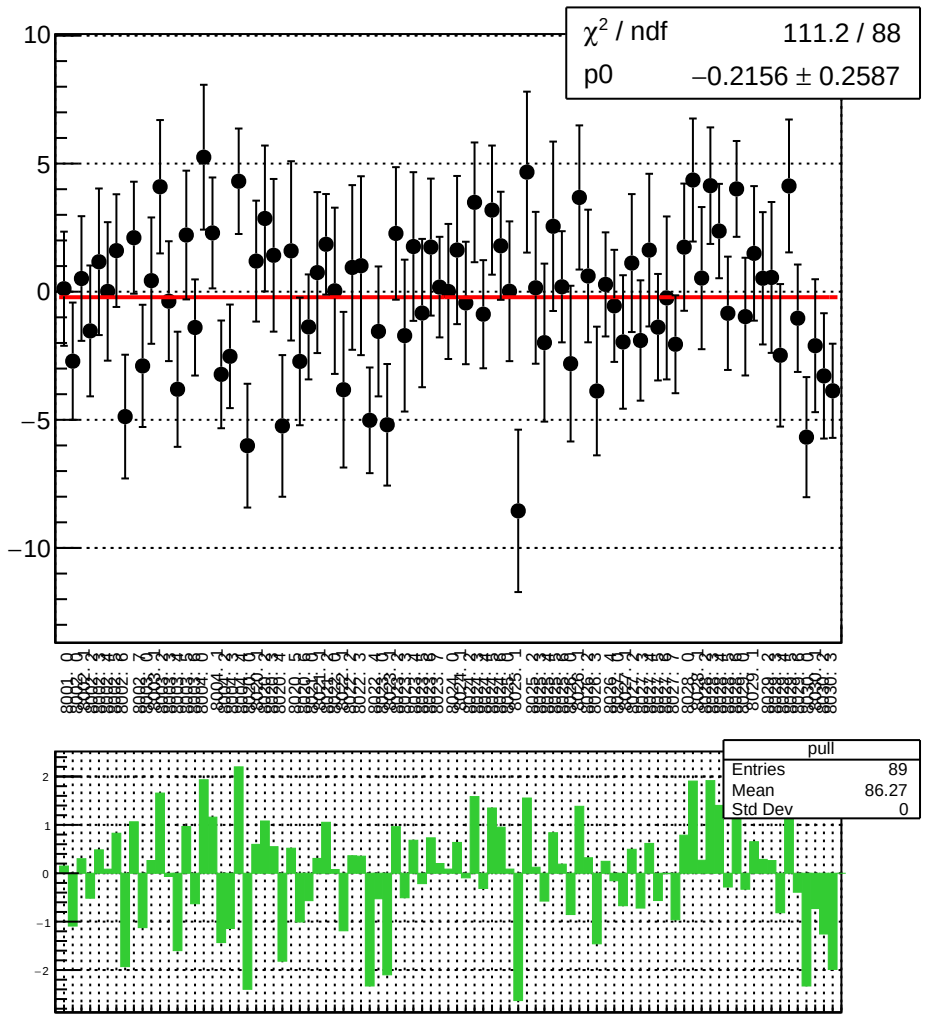

pull1D
Entries 89
Mean 0.01273
Std Dev 1.118

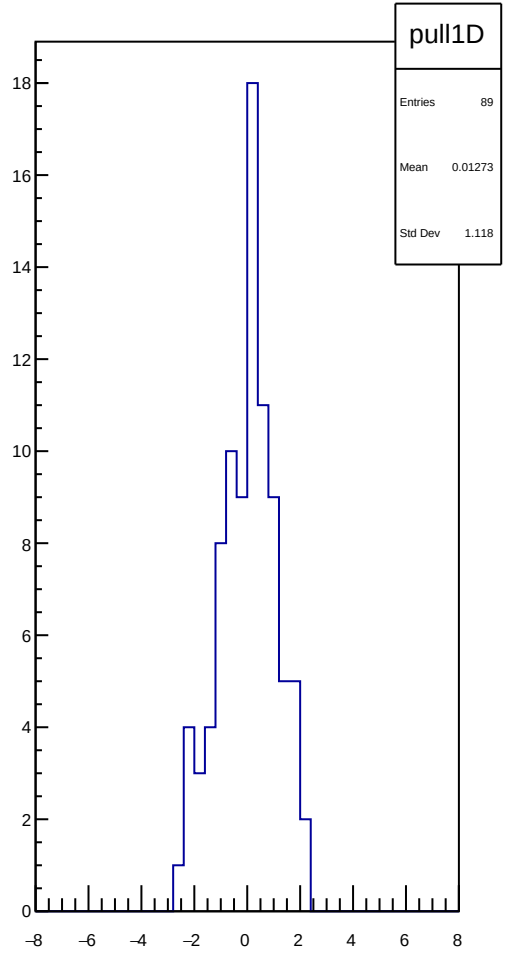

asym_atl1r2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.152e+04 / 88
p0 238.7 ± 0.1829
340
320
300
280
260
240
220
200
180
160

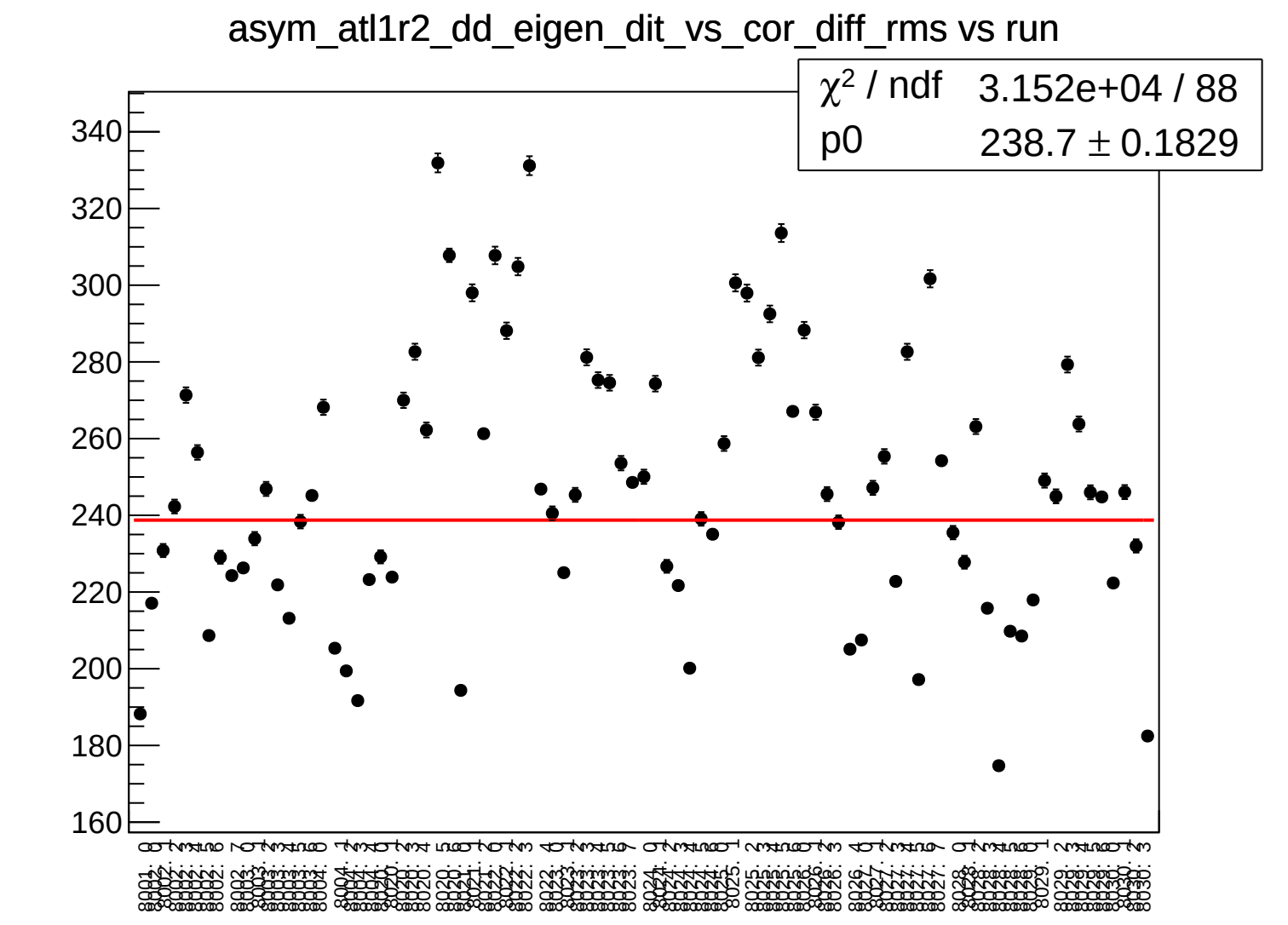

asym_atl1r2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.51 / 88
p0 −9.497e−07 ± 1.599e−05
pull
Entries 89
Mean 182.3
Std Dev 0

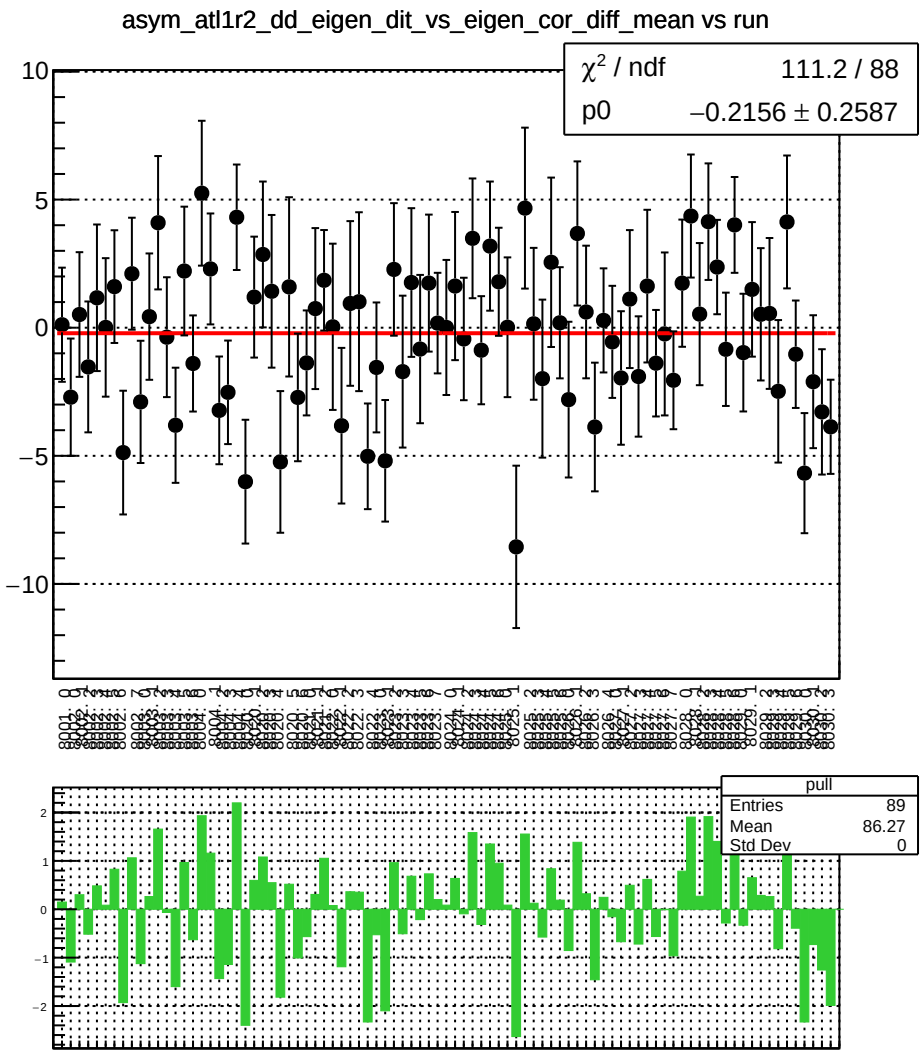

pull1D
Entries 89
Mean 0.025
Std Dev 0.9913

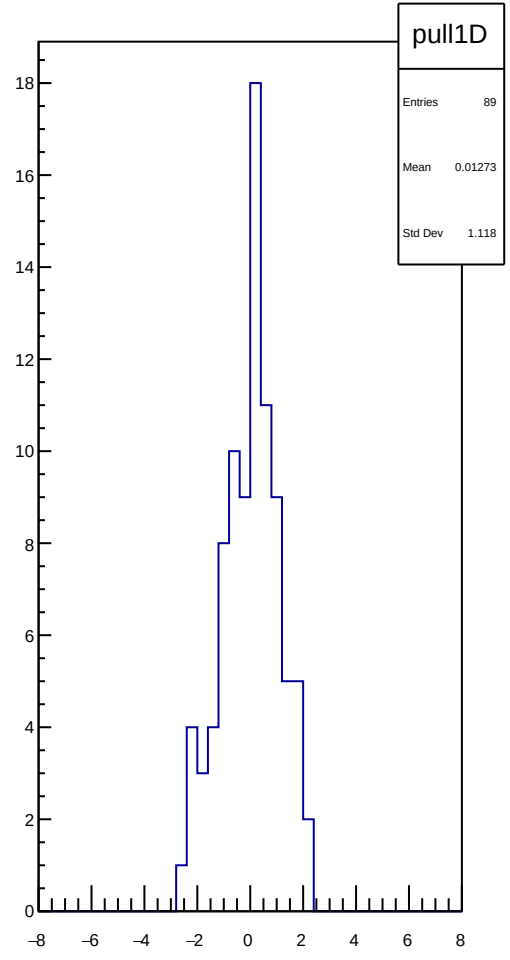

asym_atl1r2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4374 / 88
p0 0.01487 ± 1.131e–05
0.018
0.017
0.016
0.015
0.014

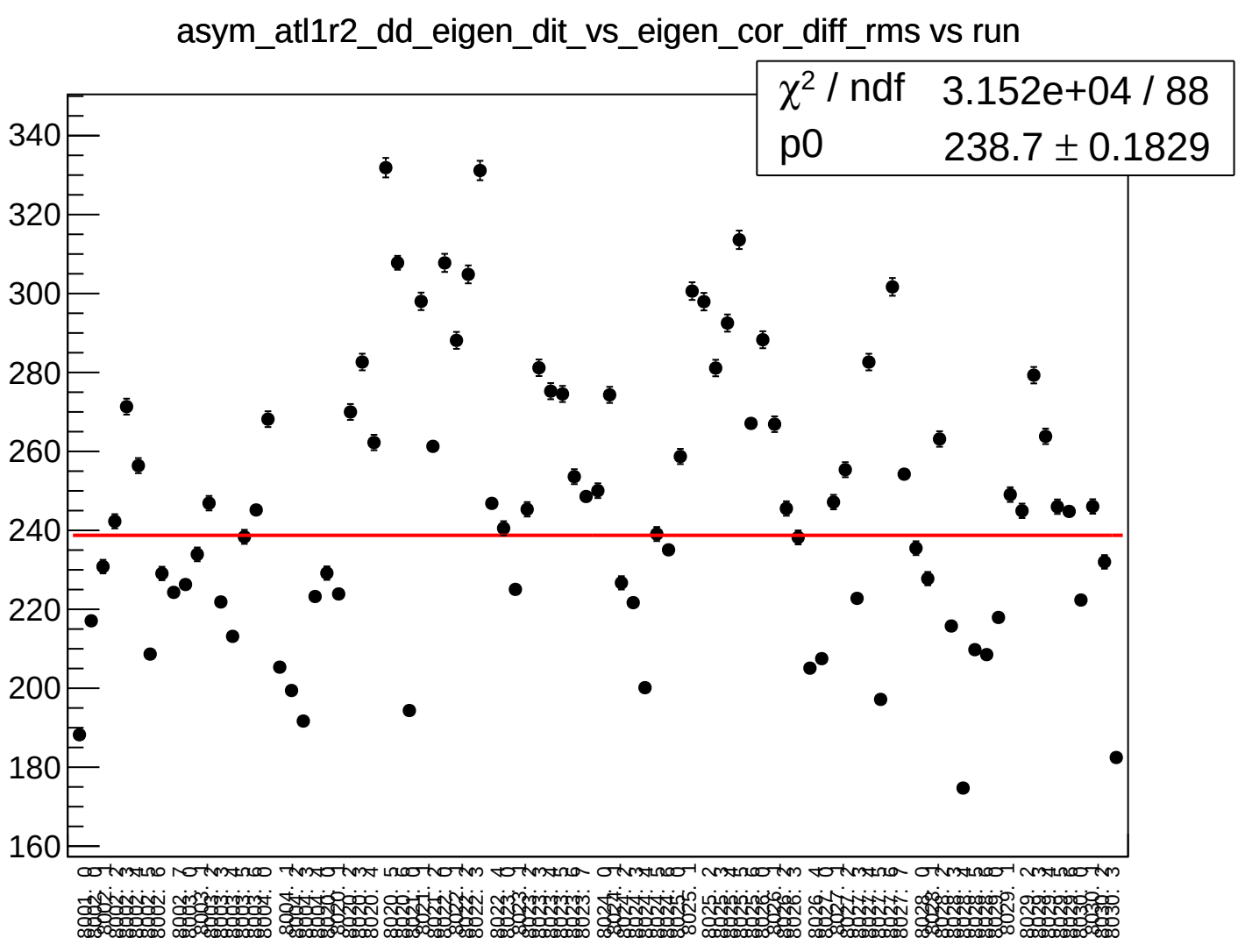

asym_atl1r2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 111.2 / 88
p0 −0.2156 ± 0.2587
pull
Entries 89
Mean 86.27
Std Dev 0

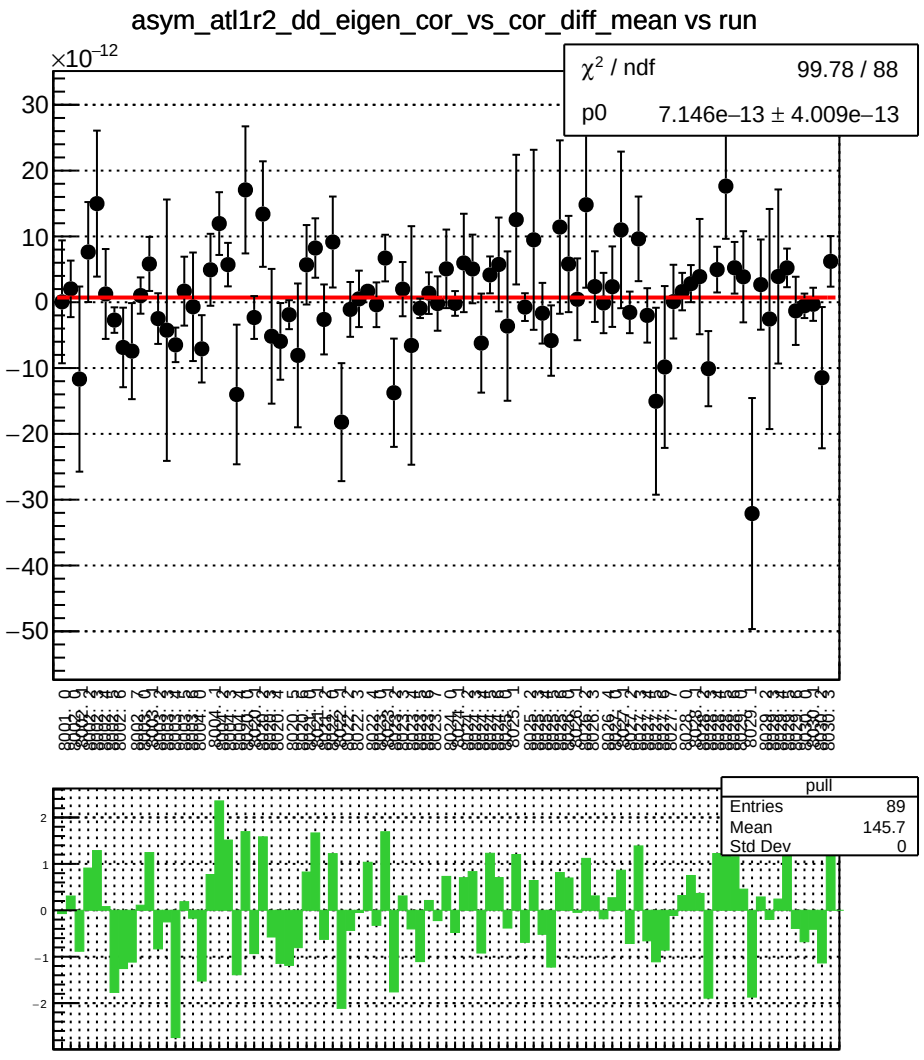

pull1D
Entries 89
Mean 0.01273
Std Dev 1.118

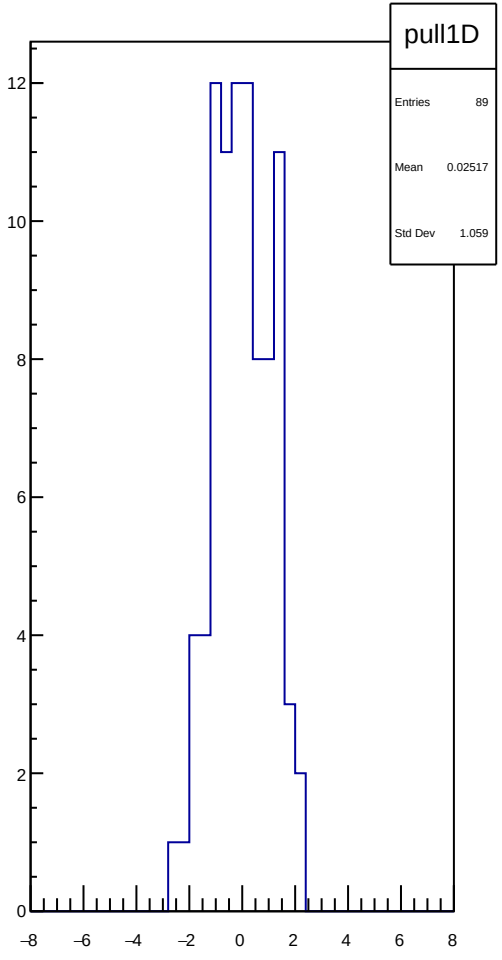

asym_atl1r2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.152e+04 / 88
p0 238.7 ± 0.1829
340
320
300
280
260
240
220
200
180
160

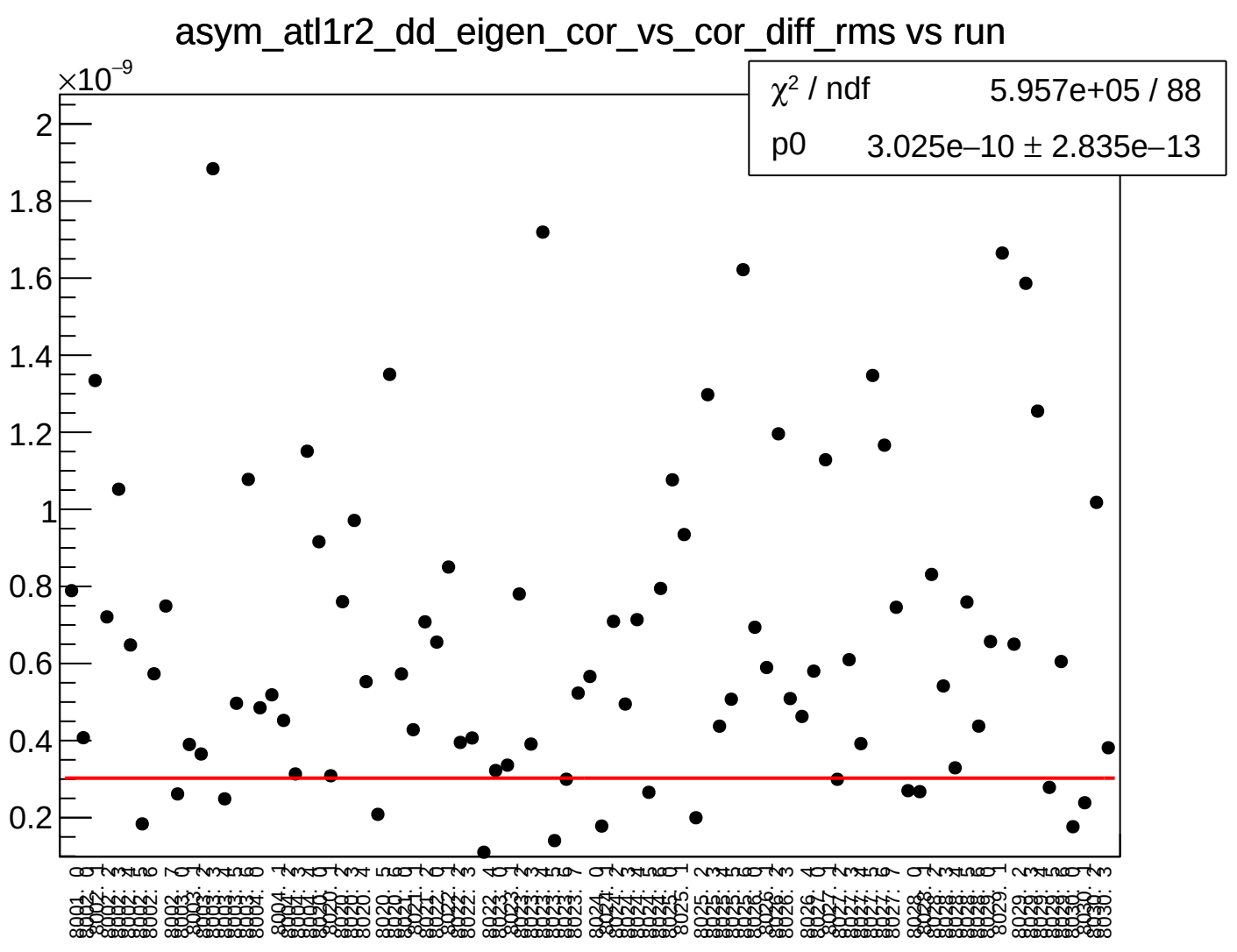

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 111.2 / 88
p0 −0.2156 ± 0.2587
pull
Entries 89
Mean 86.27
Std Dev 0

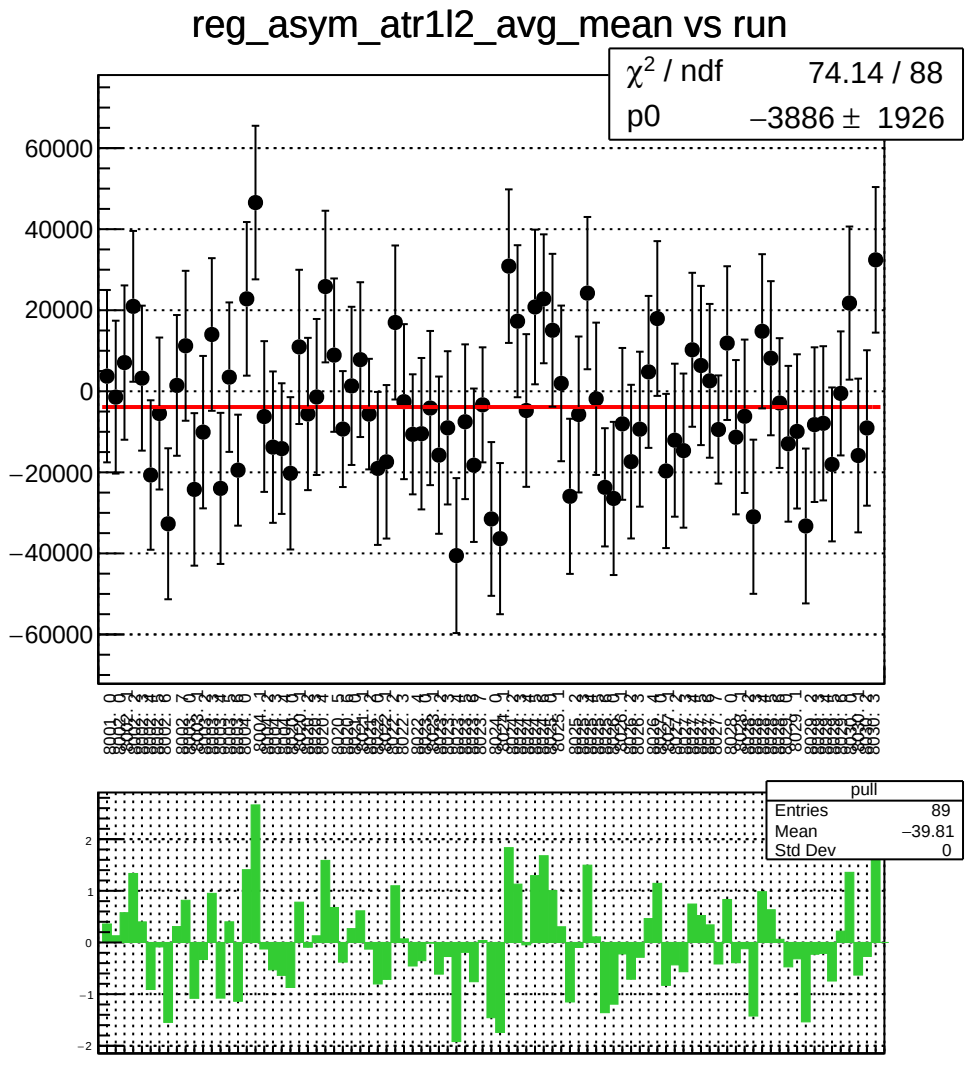

pull1D
Entries 89
Mean 0.01273
Std Dev 1.118

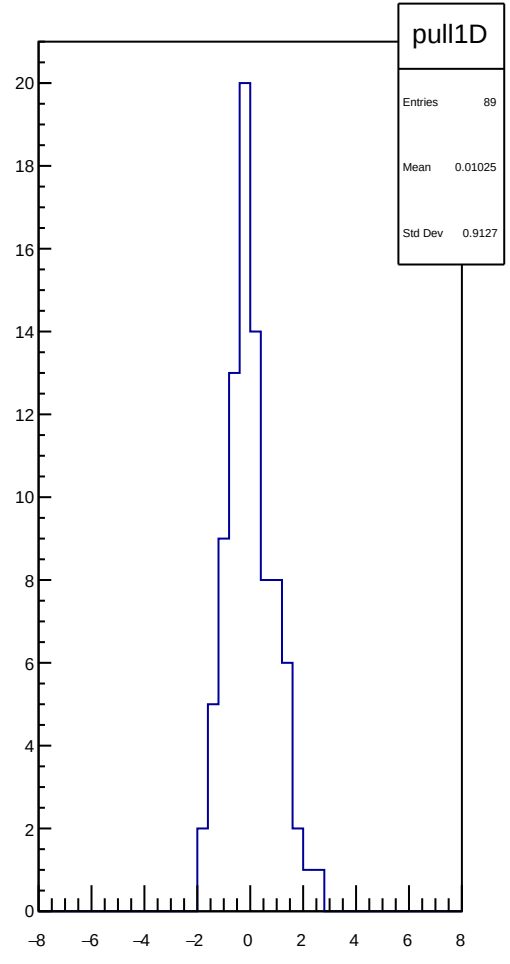

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.152e+04 / 88
p0 238.7 ± 0.1829
340
320
300
280
260
240
220
200
180
160

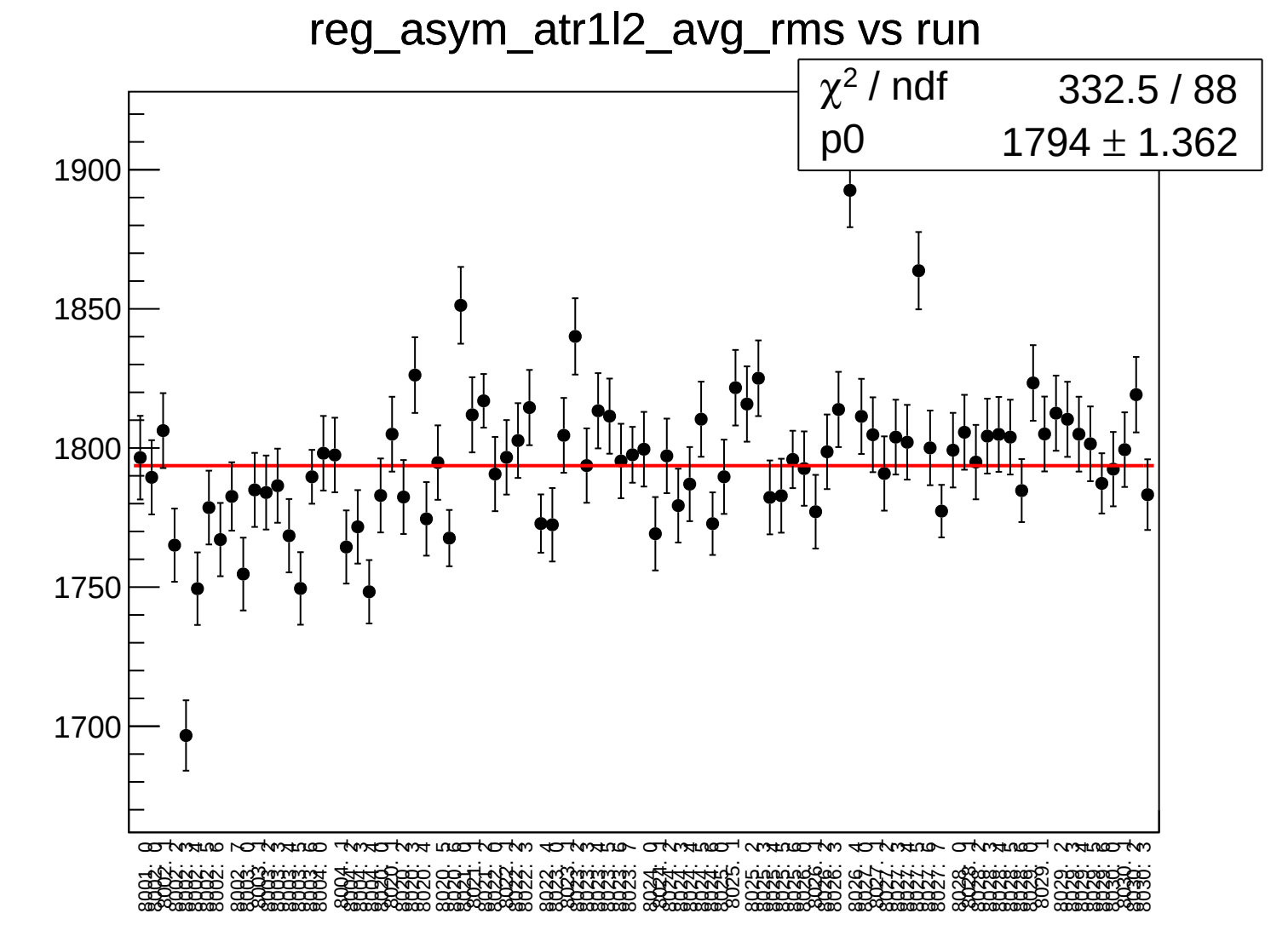

asym_atl1r2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.78 / 88
p0 7.146e−13 ± 4.009e−13
pull
Entries 89
Mean 145.7
Std Dev 0

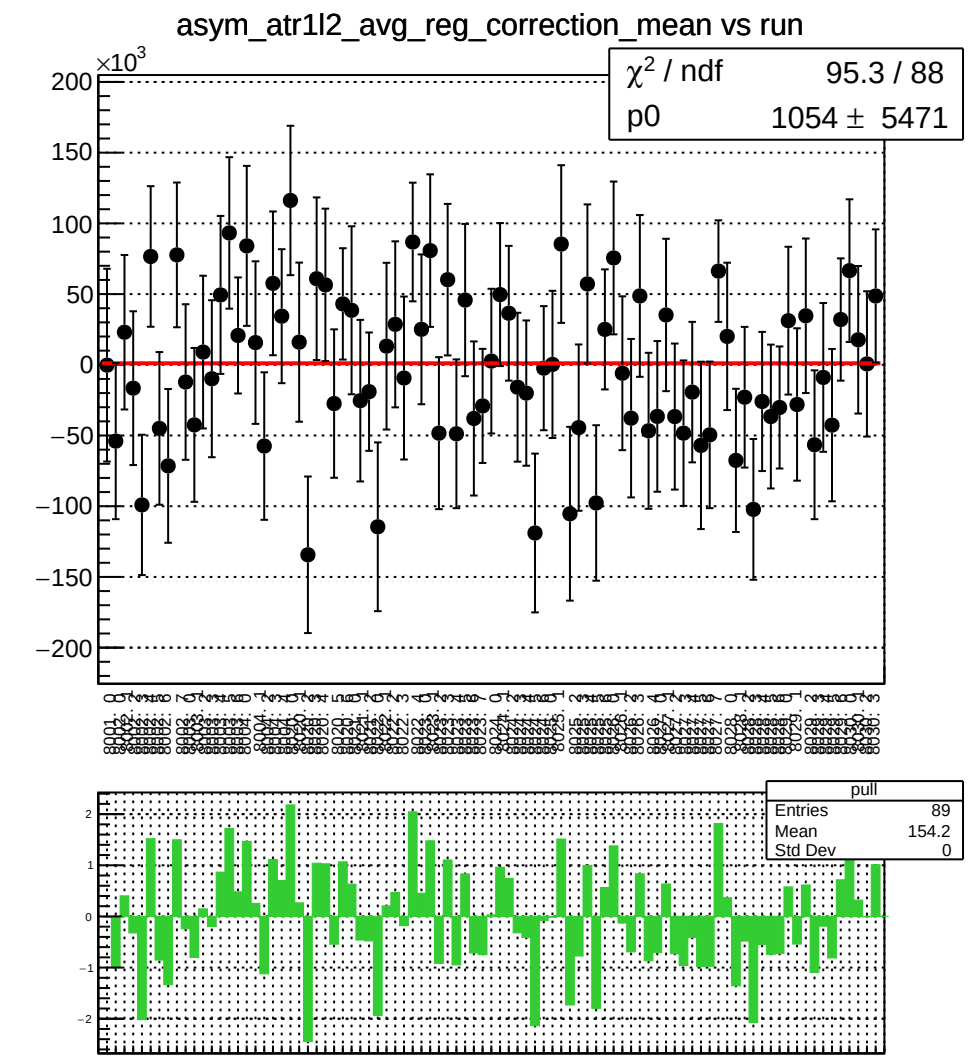

pull1D
Entries 89
Mean 0.02517
Std Dev 1.059

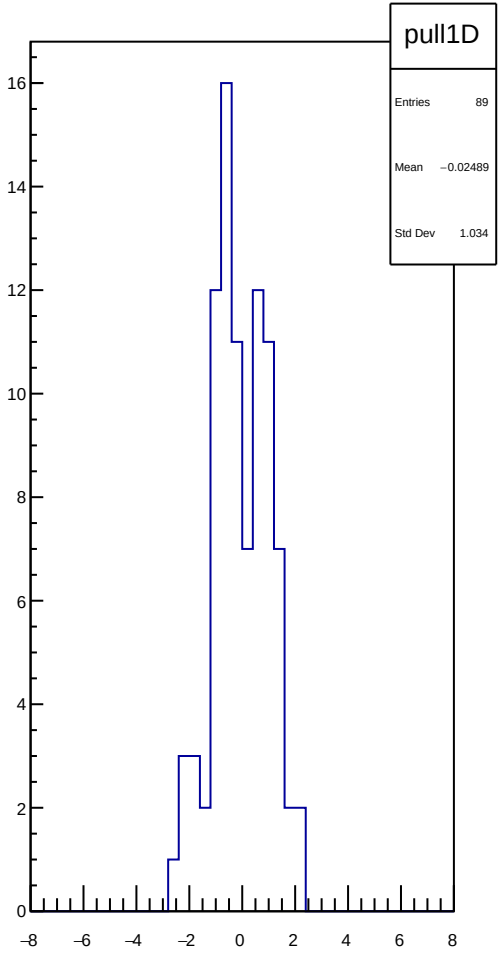

asym_atl1r2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.957e+05 / 88
p0 3.025e−10 ± 2.835e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

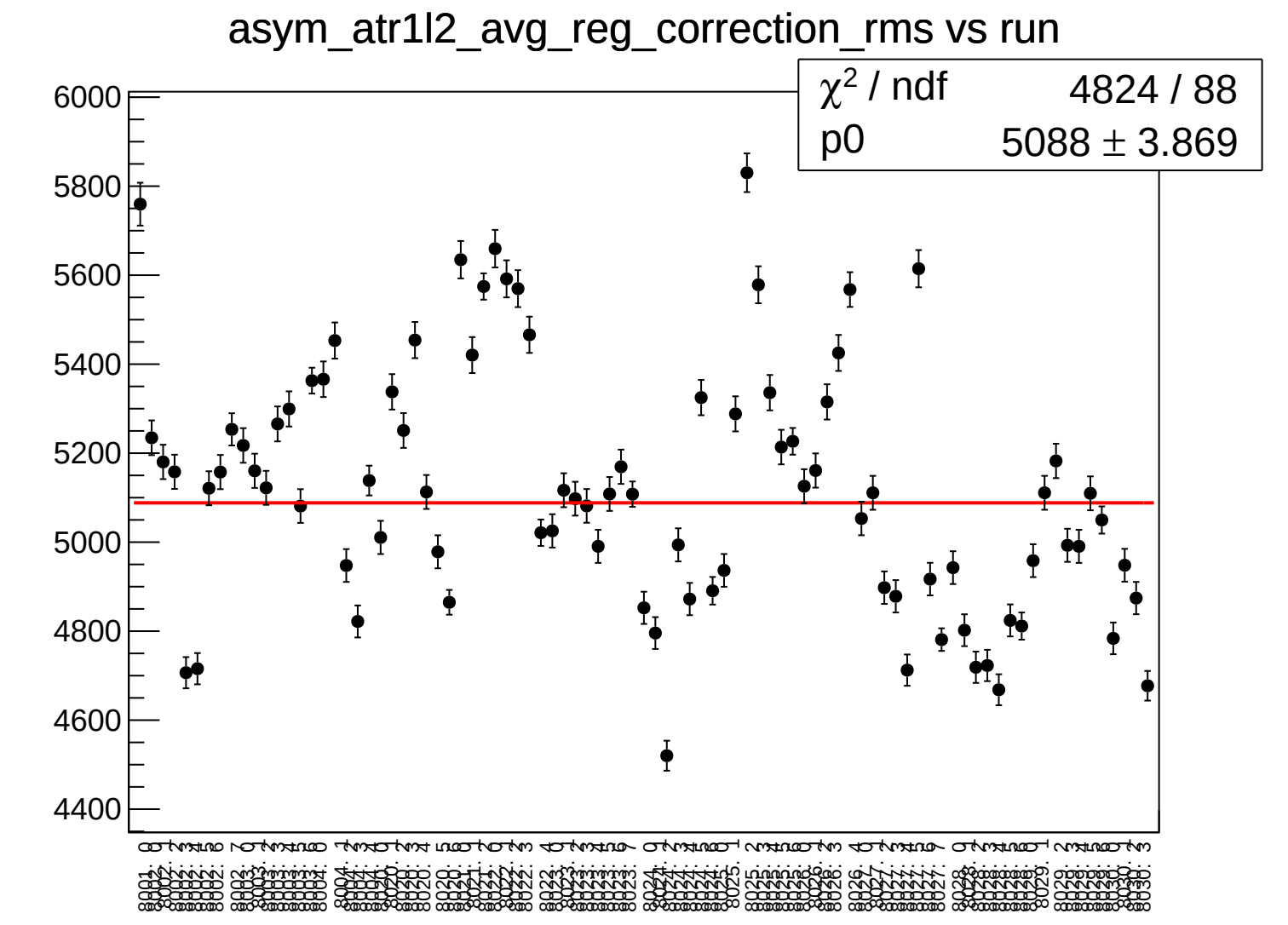

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 74.14 / 88
p0 −3886 ± 1926
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −39.81
Std Dev 0
2
1
0
−1
−2

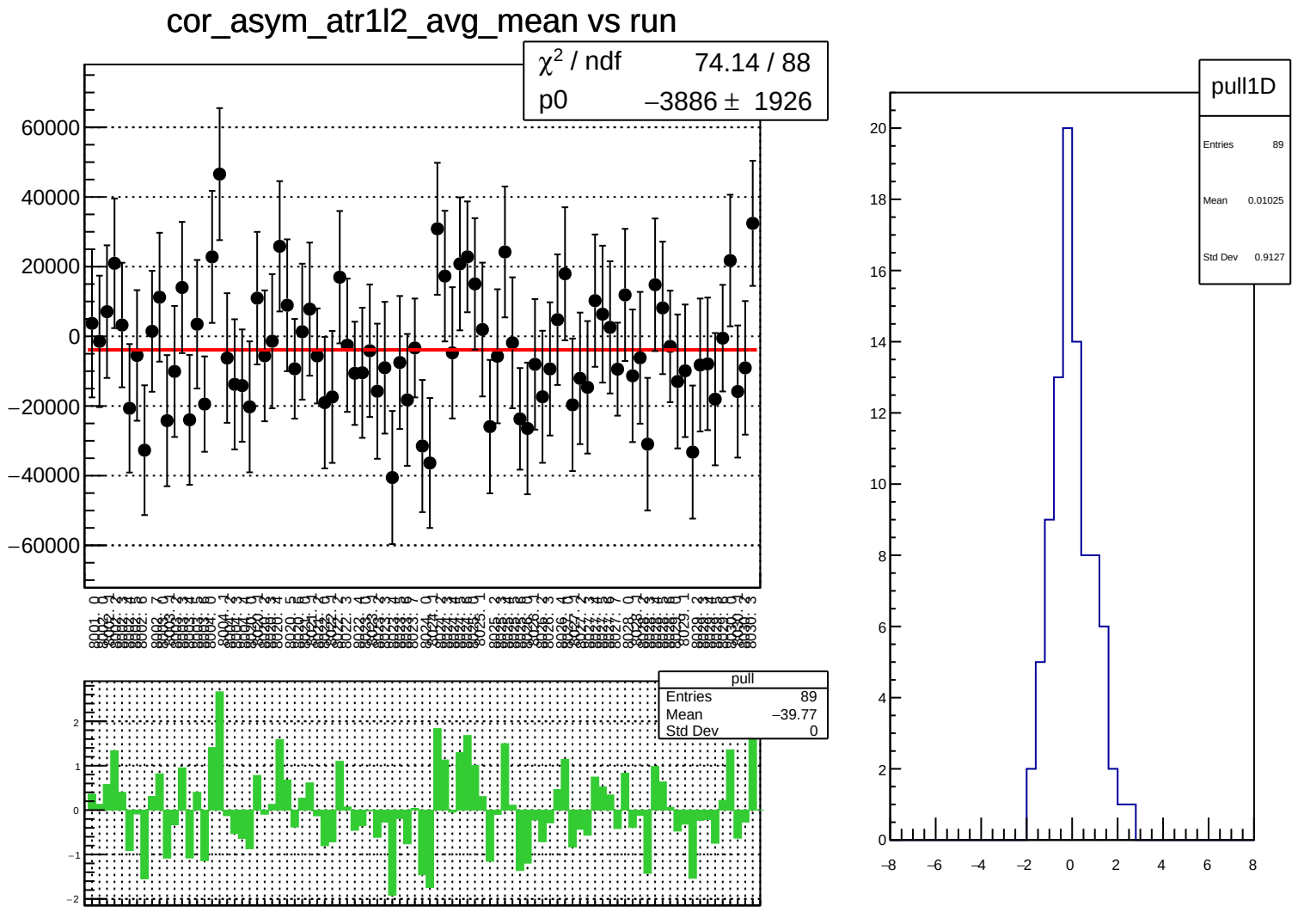

pull1D
Entries 89
Mean 0.01025
Std Dev 0.9127
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

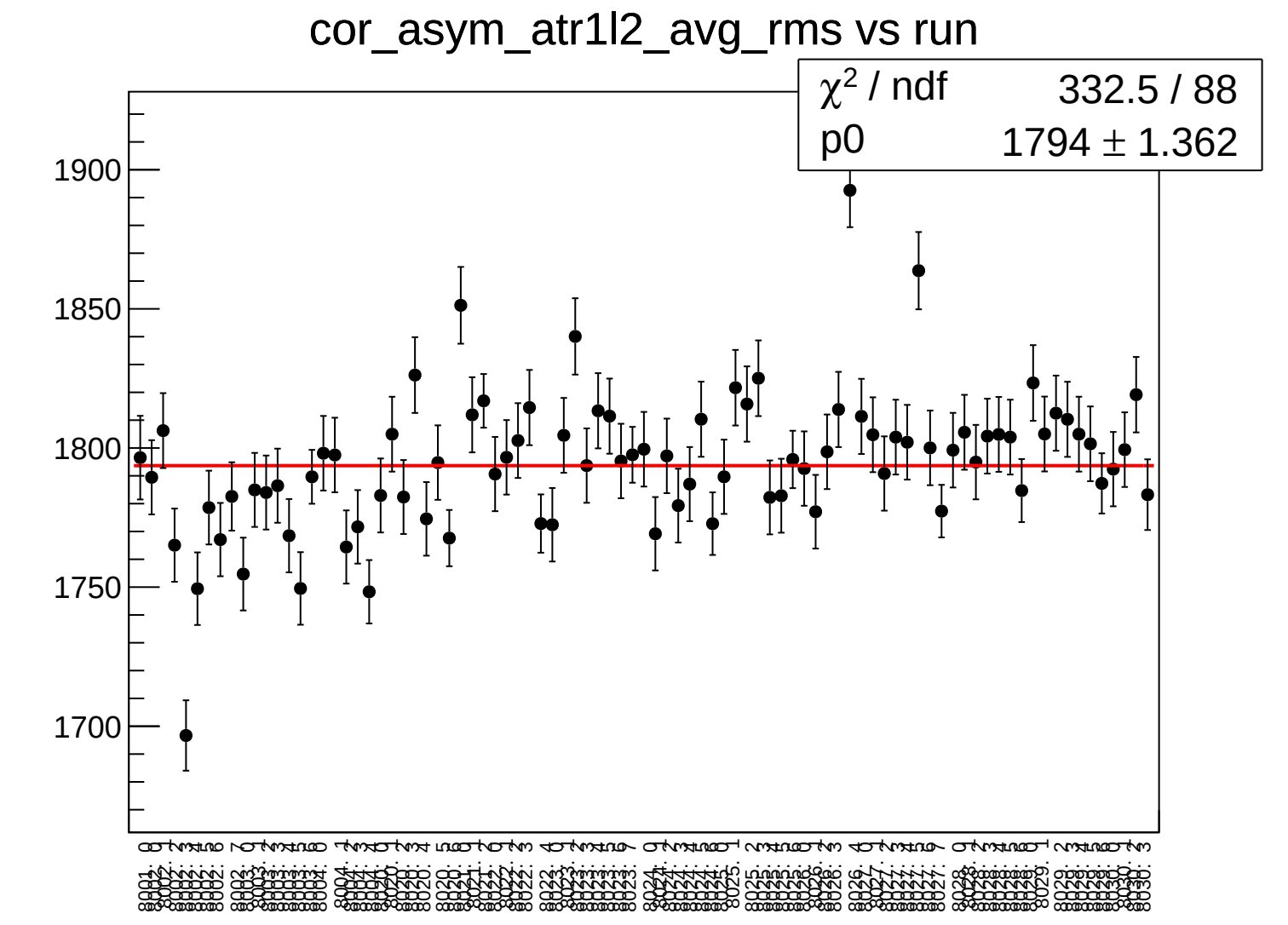

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 332.5 / 88
p0 1794 ± 1.362
1900
1850
1800
1750
1700

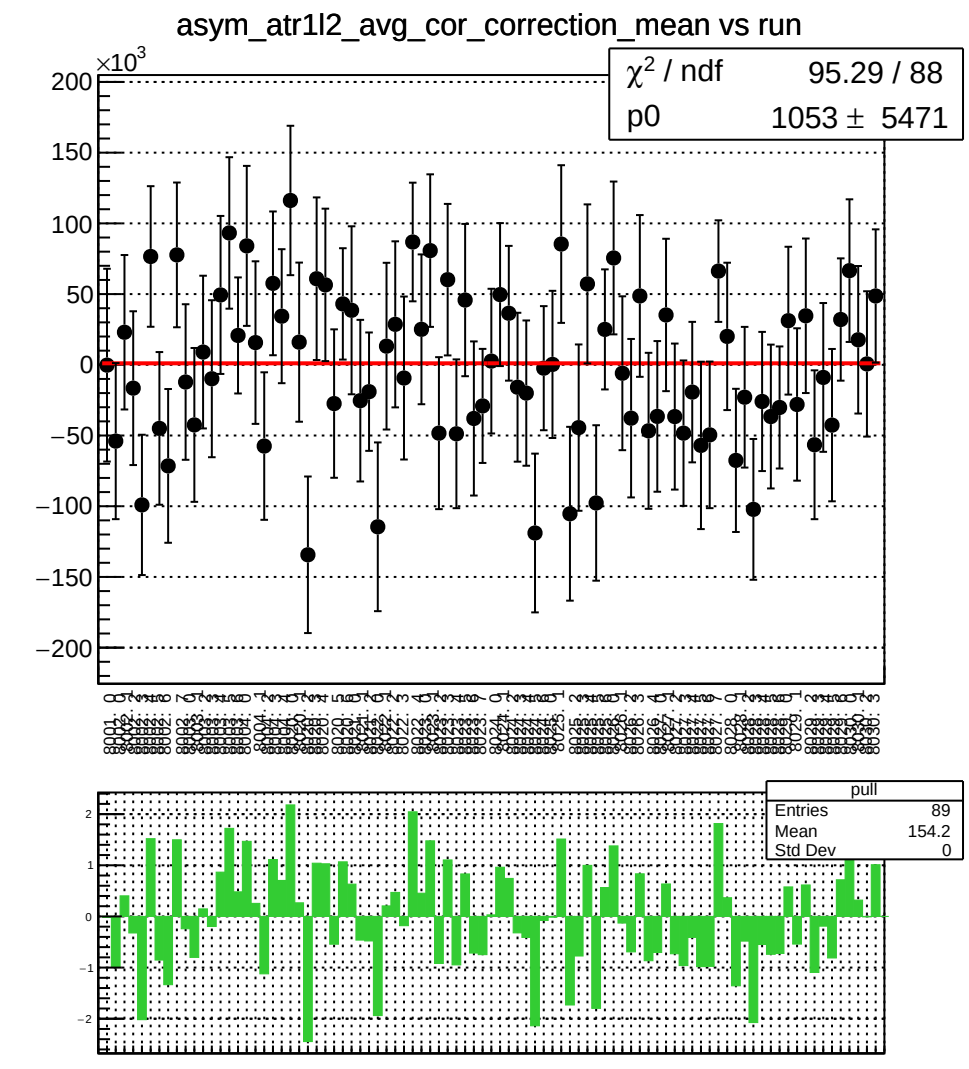

asym_atr1l2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 95.3 / 88
p0 1054 ± 5471
pull
Entries 89
Mean 154.2
Std Dev 0

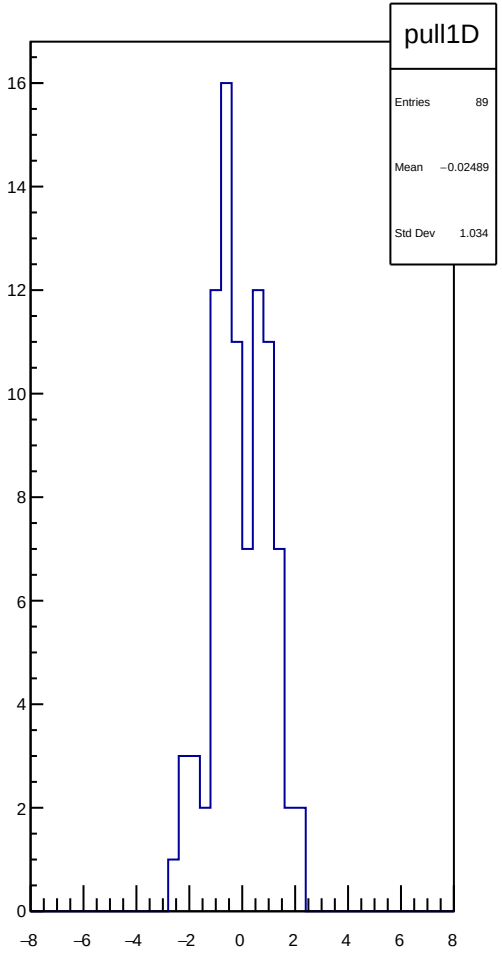

pull1D
Entries 89
Mean −0.02489
Std Dev 1.034

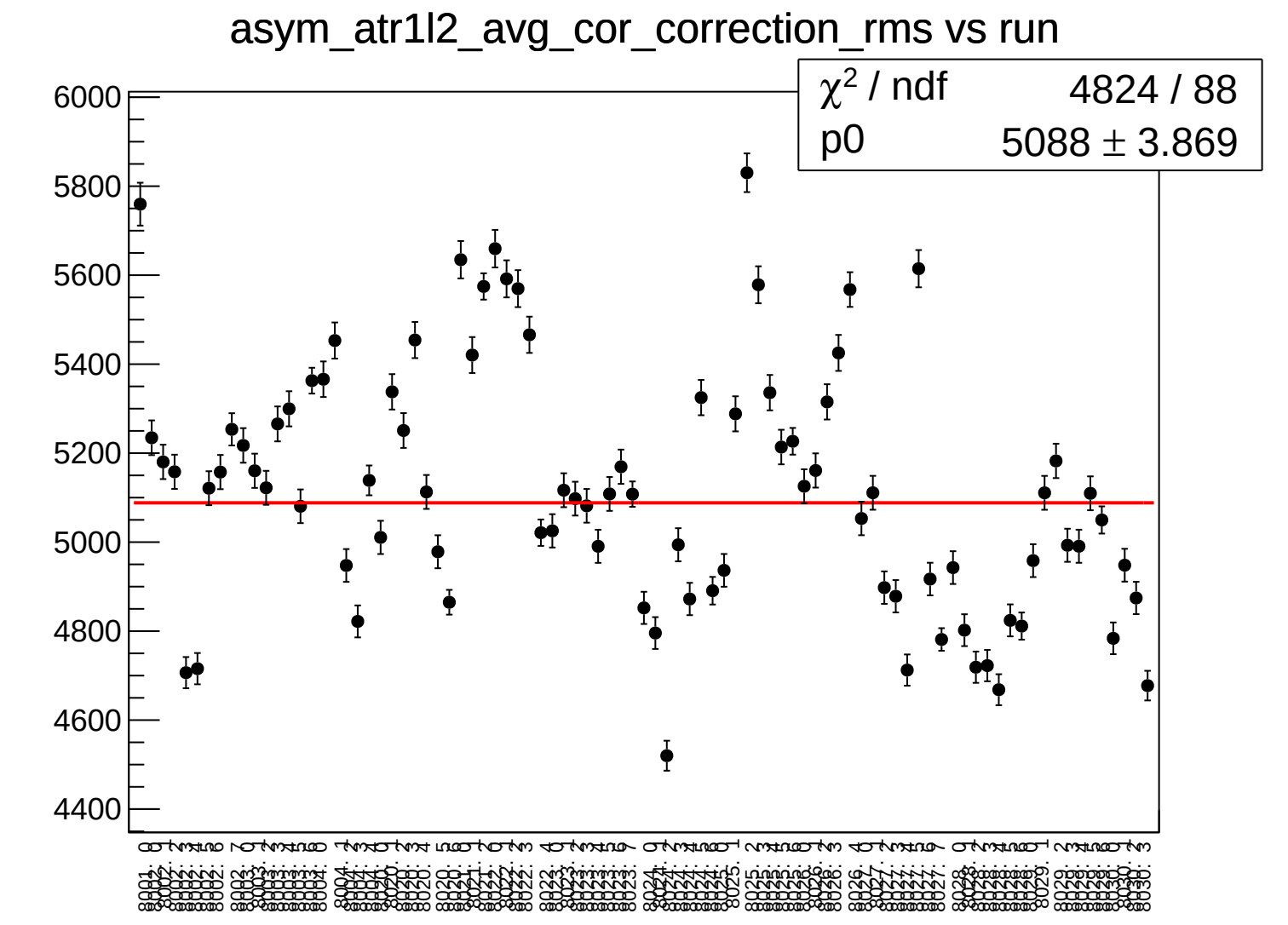

asym_atr1l2_avg_reg_correction_rms vs run
χ² / ndf 4824 / 88
p0 5088 ± 3.869
6000
5800
5600
5400
5200
5000
4800
4600
4400

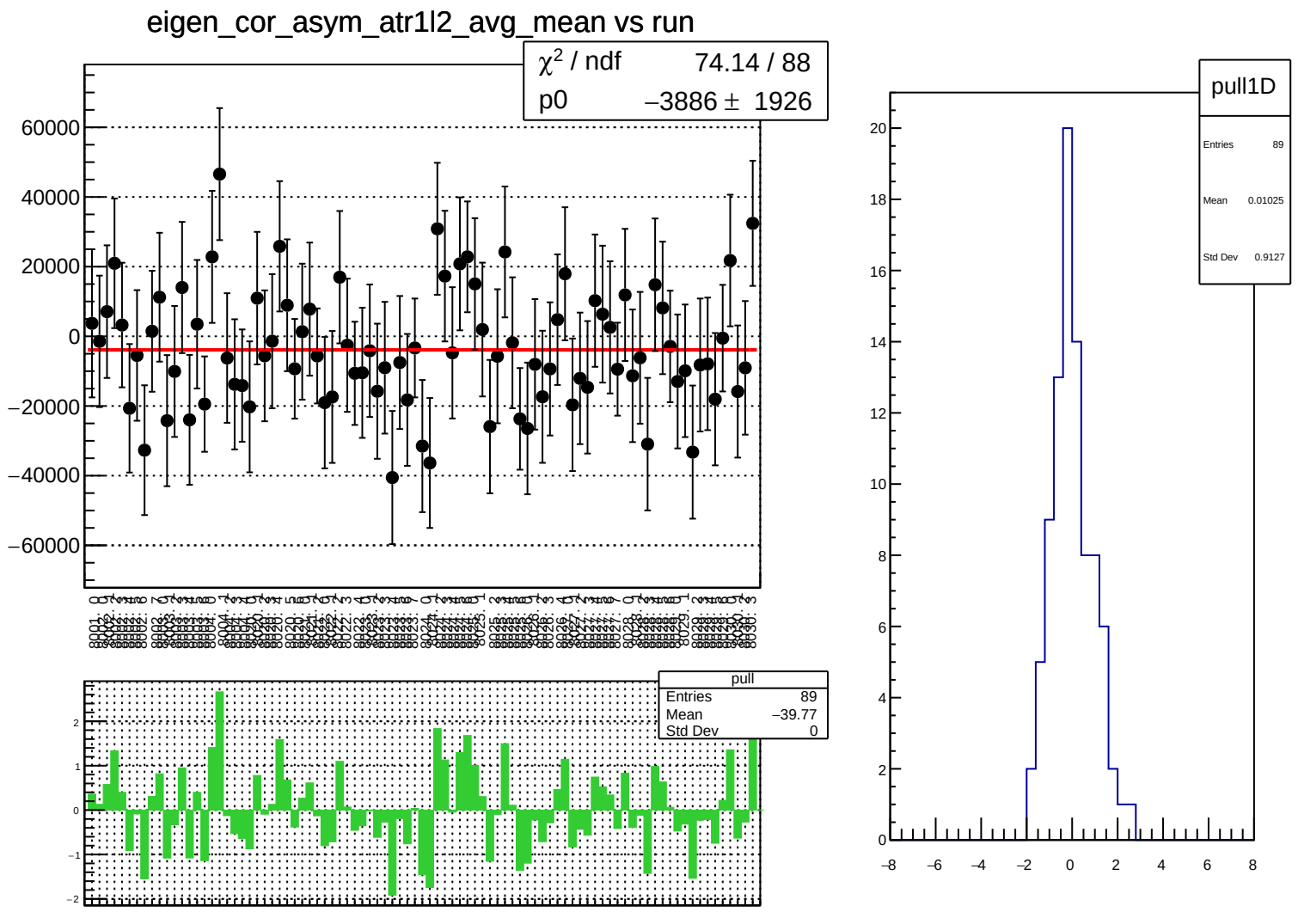

cor_asym_atr1l2_avg_mean vs run
χ² / ndf 74.14 / 88
p0 −3886 ± 1926
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −39.77
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.01025
Std Dev 0.9127
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

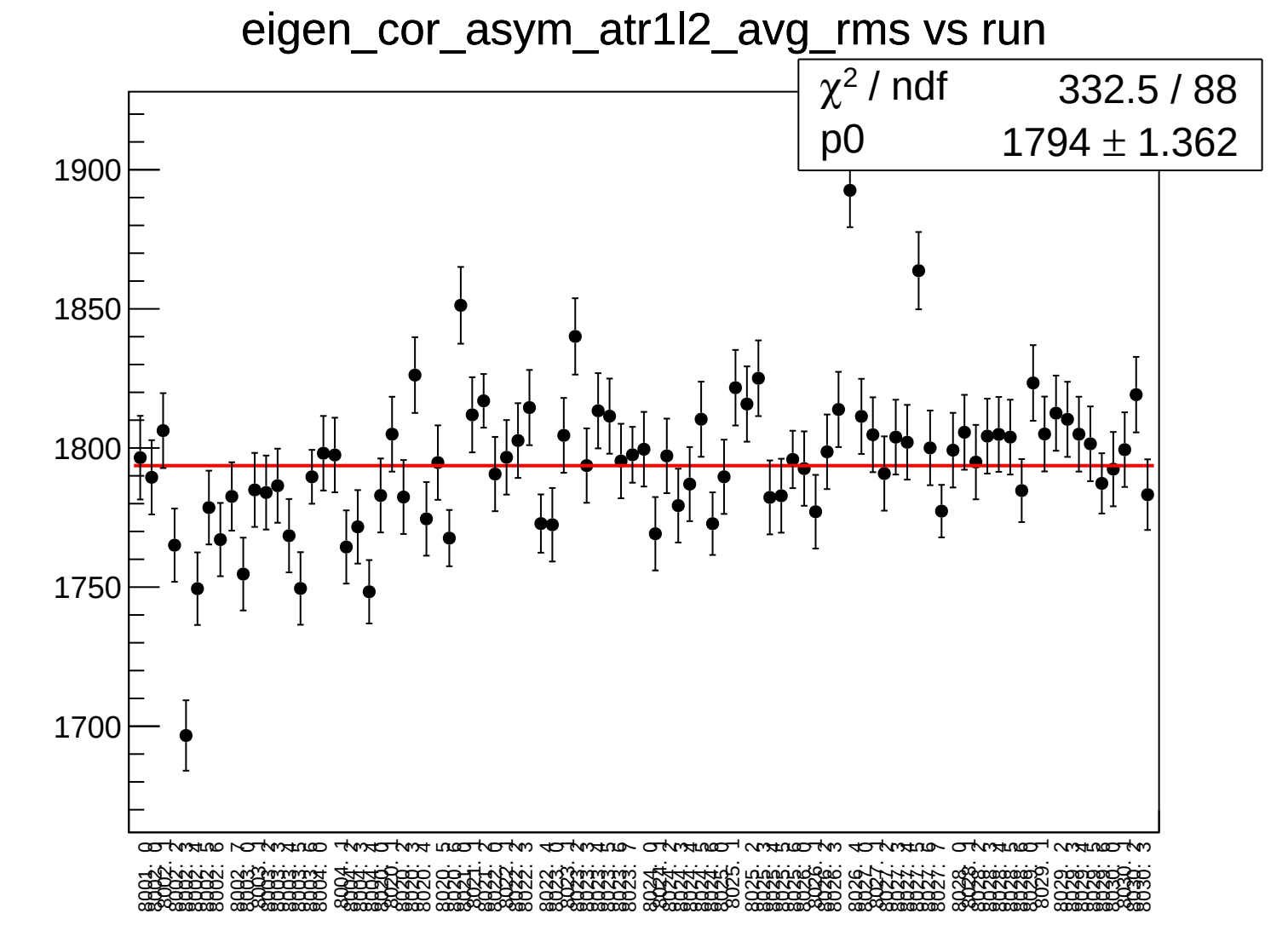

cor_asym_atr1l2_avg_rms vs run
χ² / ndf 332.5 / 88
p0 1794 ± 1.362
1900
1850
1800
1750
1700

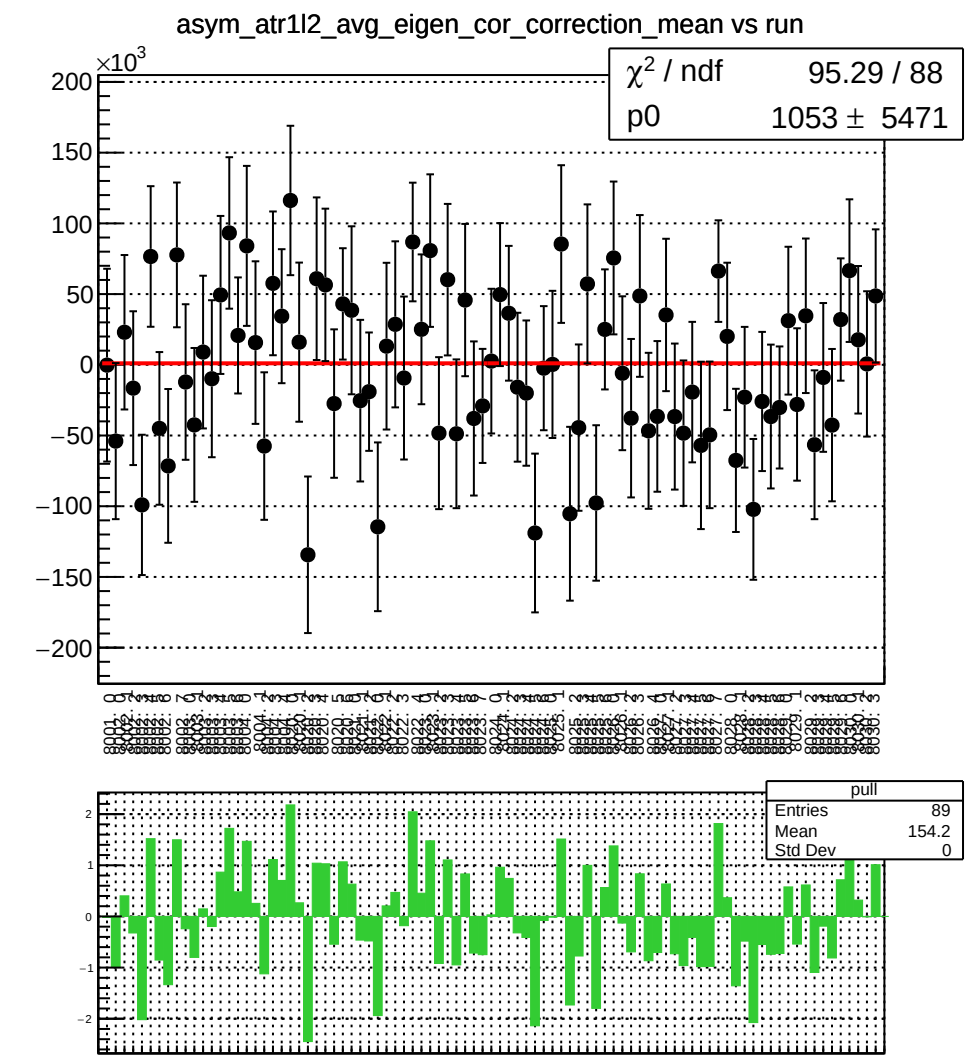

asym_atr1l2_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 95.29 / 88
p0 1053 ± 5471
pull
Entries 89
Mean 154.2
Std Dev 0

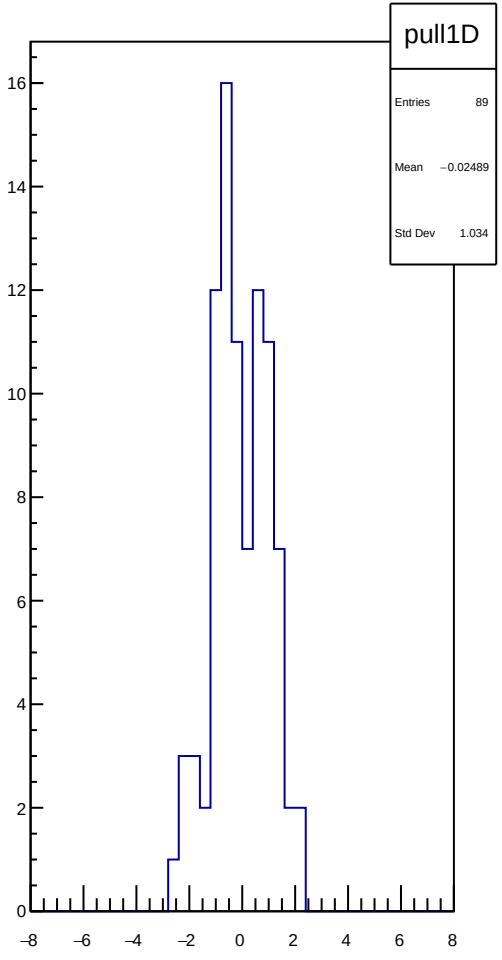

pull1D
Entries 89
Mean −0.02489
Std Dev 1.034

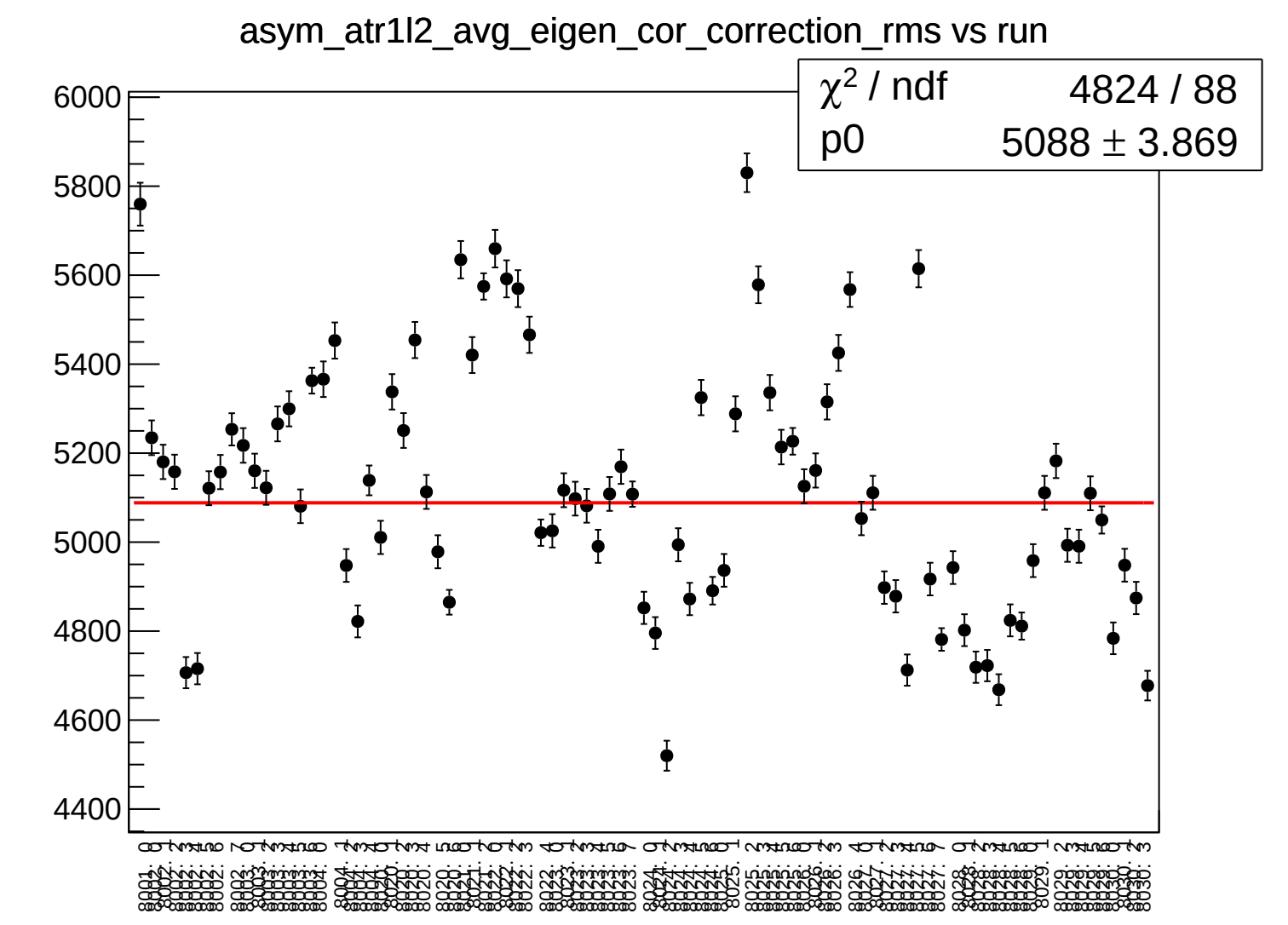

asym_atr1l2_avg_cor_correction_rms vs run
χ² / ndf 4824 / 88
p0 5088 ± 3.869
6000
5800
5600
5400
5200
5000
4800
4600
4400

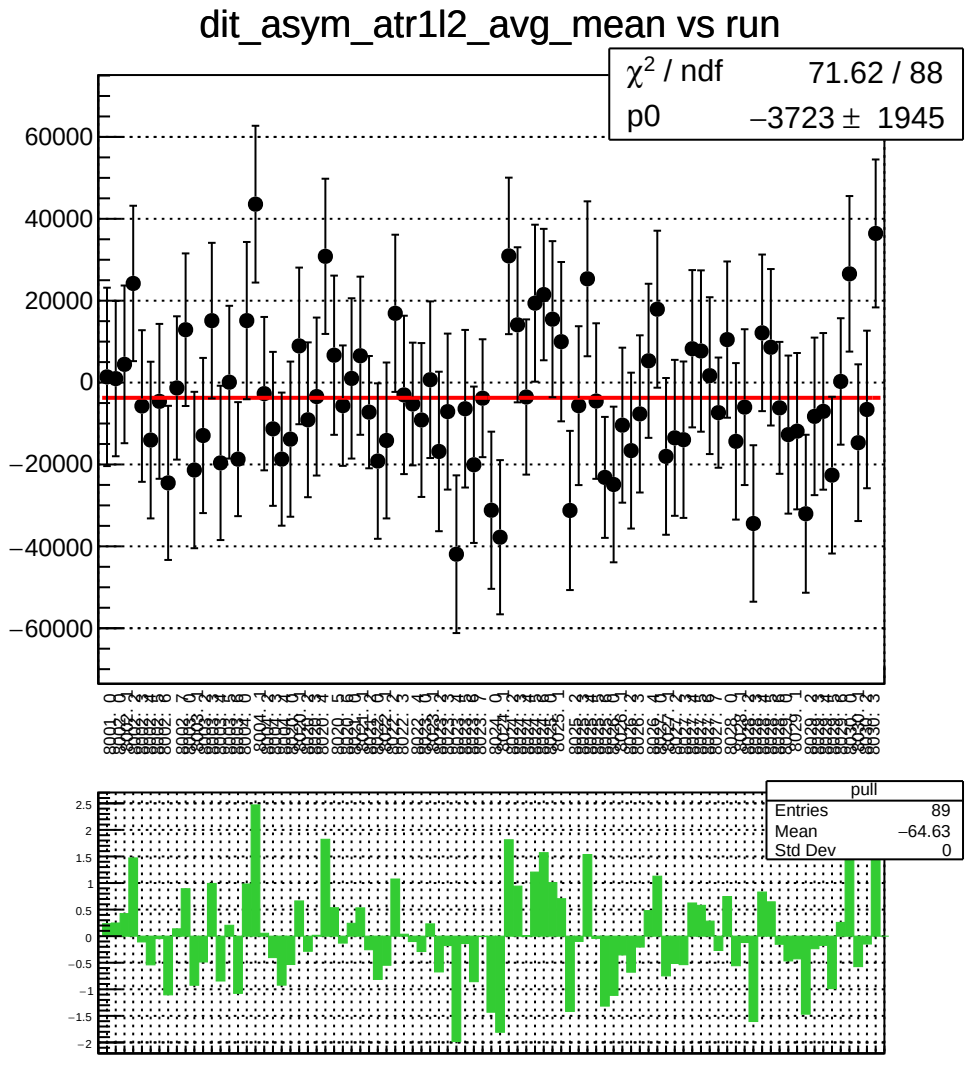

eigen_cor_asym_atr1l2_avg_mean vs run
χ² / ndf 74.14 / 88
p0 −3886 ± 1926
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −39.77
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.01025
Std Dev 0.9127
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

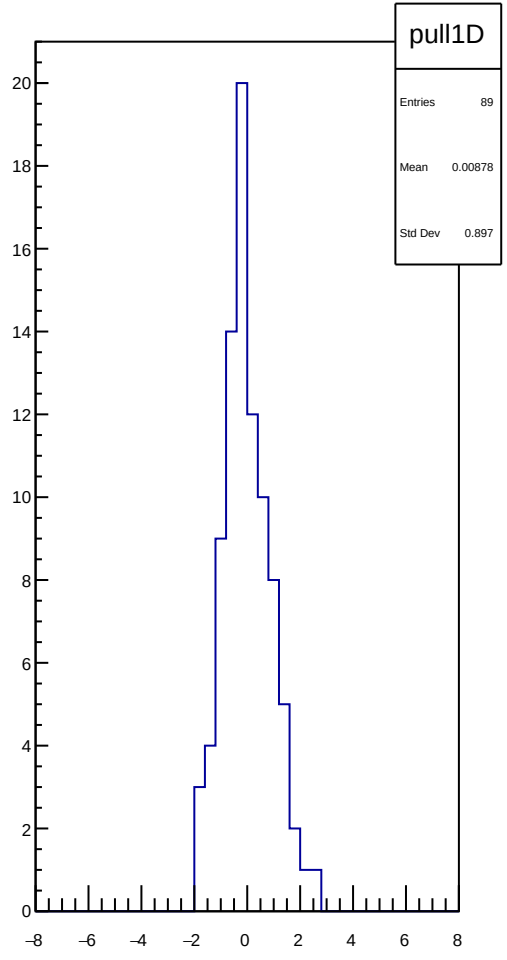

eigen_cor_asym_atr1l2_avg_rms vs run
χ² / ndf 332.5 / 88
p0 1794 ± 1.362
1900
1850
1800
1750
1700

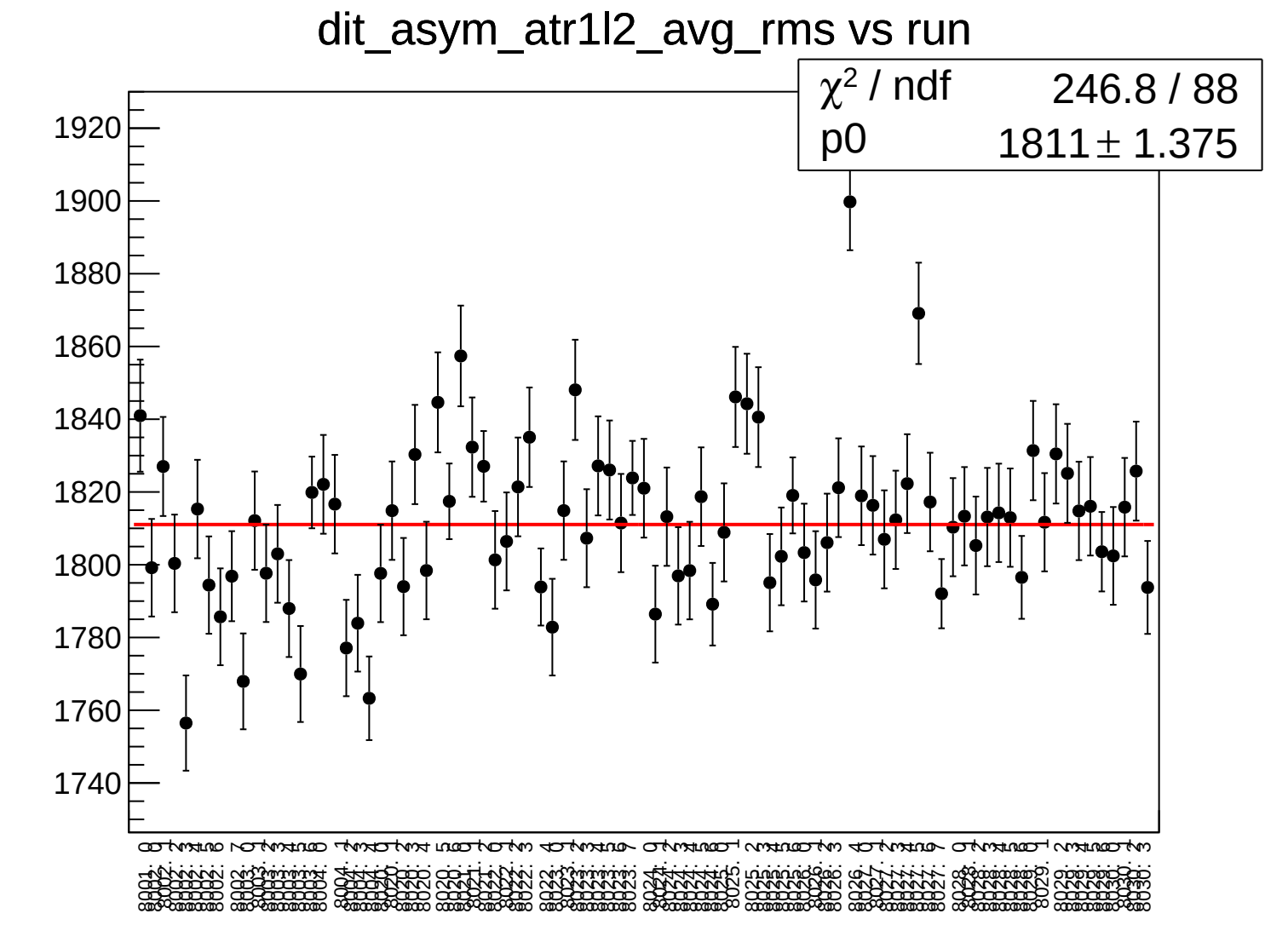

asym_atr1l2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 95.29 / 88
p0 1053 ± 5471
pull
Entries 89
Mean 154.2
Std Dev 0

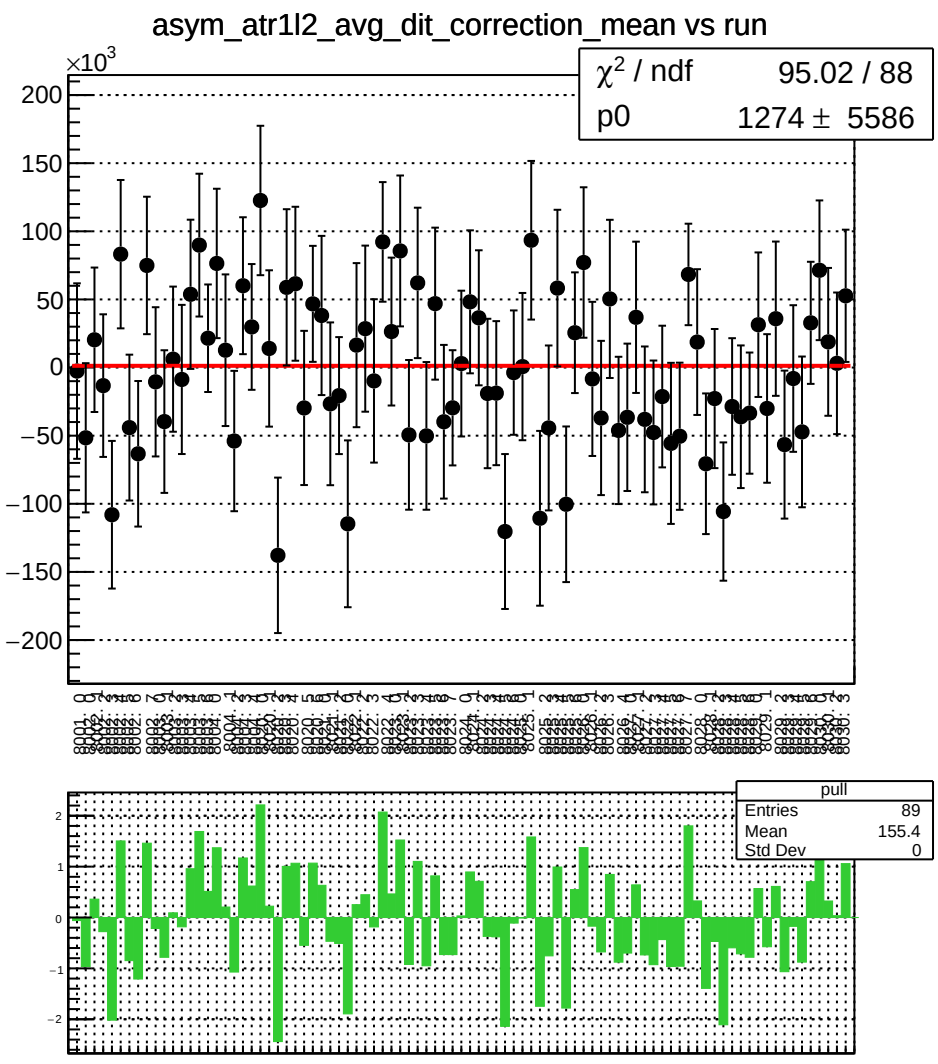

pull1D
Entries 89
Mean −0.02489
Std Dev 1.034

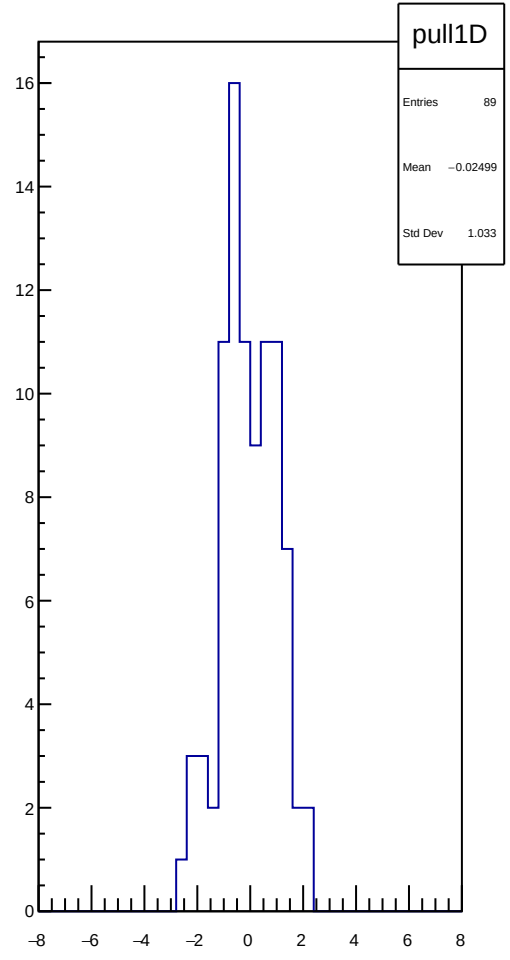

asym_atr1l2_avg_eigen_cor_correction_rms vs run
χ² / ndf 4824 / 88
p0 5088 ± 3.869
6000
5800
5600
5400
5200
5000
4800
4600
4400

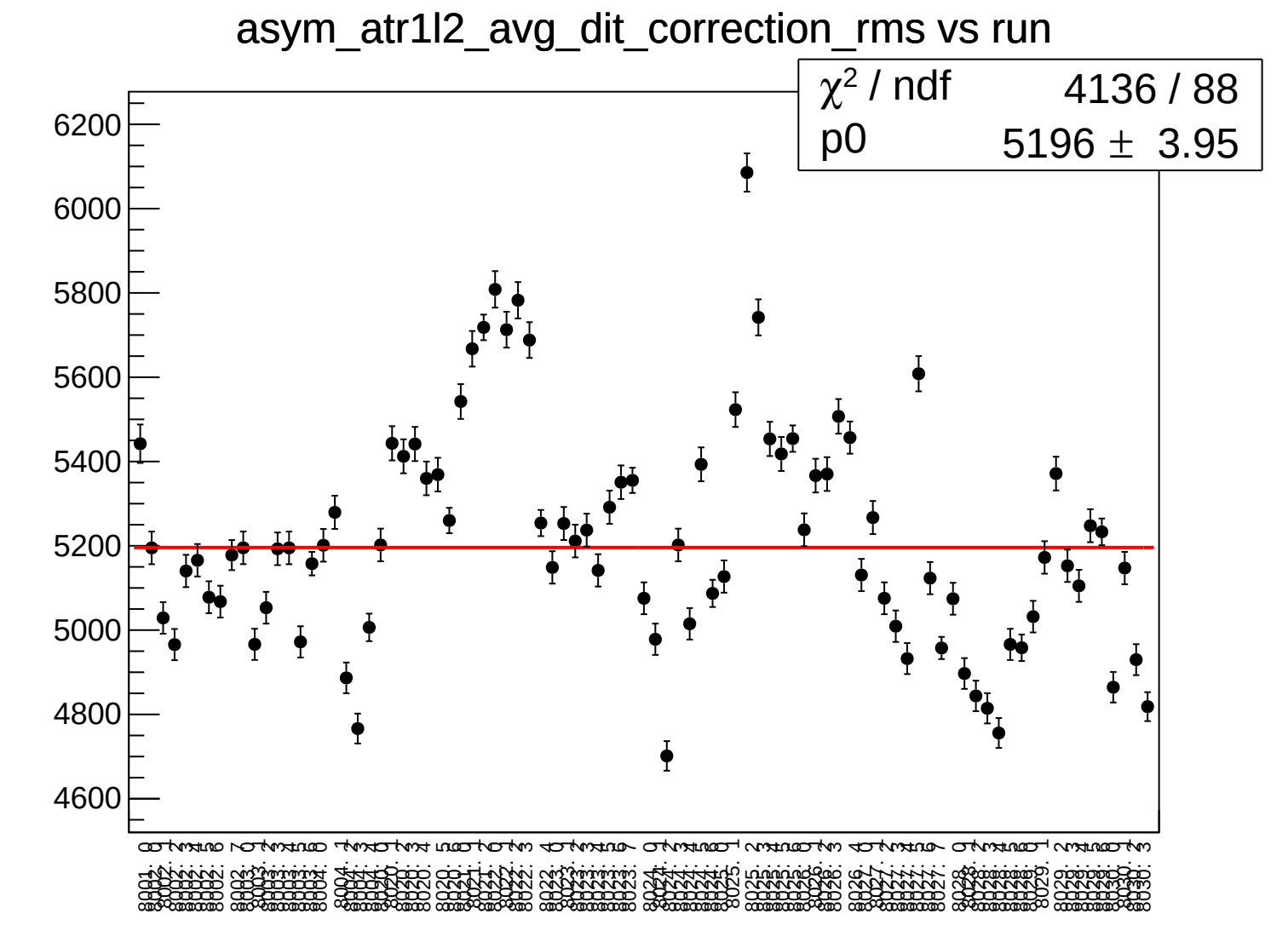

dit_asym_atr1l2_avg_mean vs run
χ² / ndf 71.62 / 88
p0 −3723 ± 1945
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −64.63
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

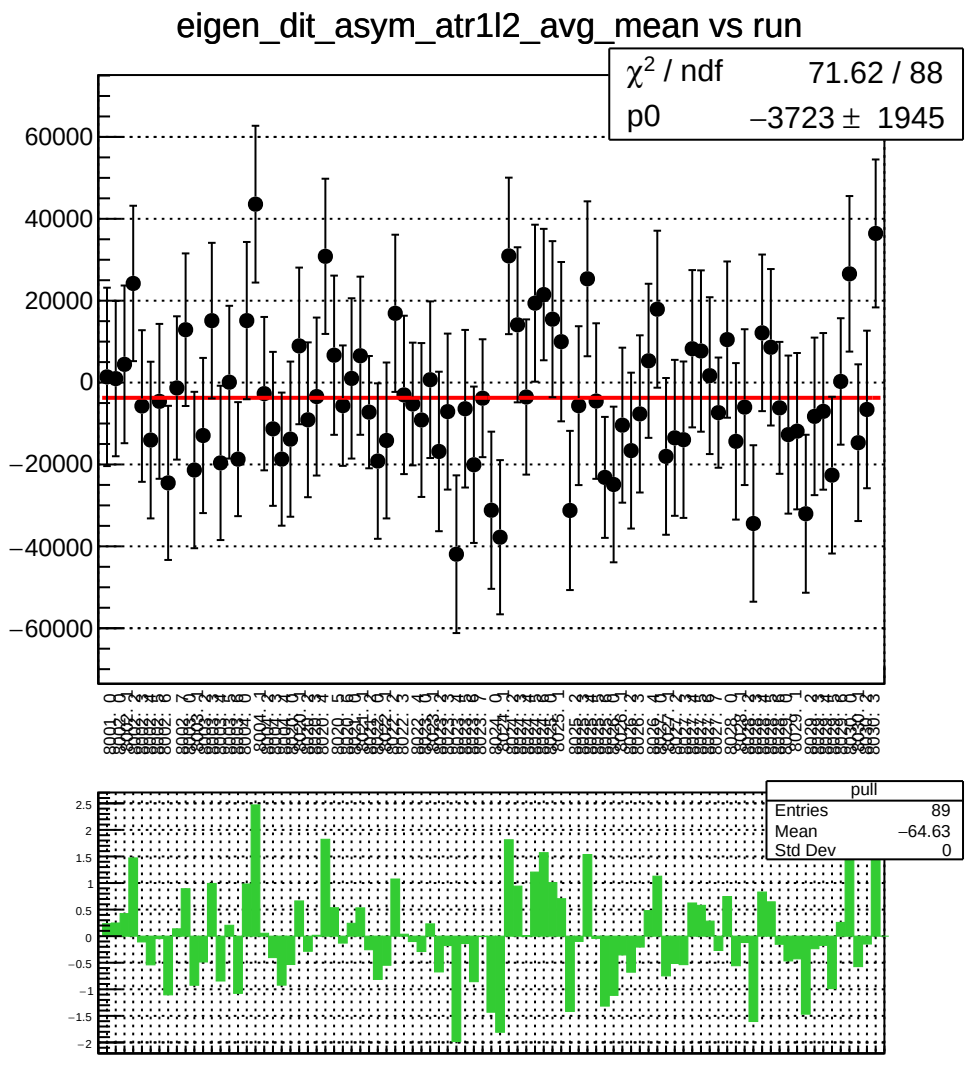

pull1D
Entries 89
Mean 0.00878
Std Dev 0.897
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

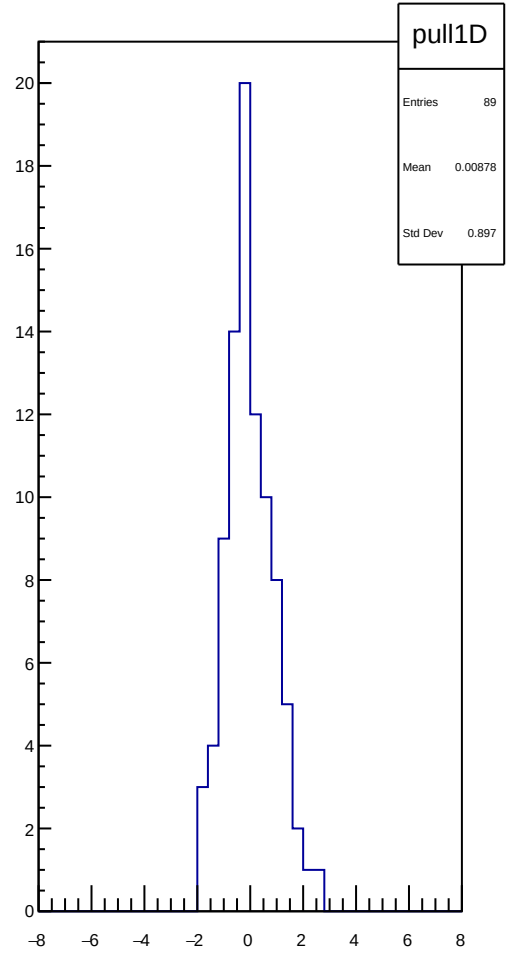

dit_asym_atr1l2_avg_rms vs run
χ² / ndf 246.8 / 88
p0 1811 ± 1.375
1920
1900
1880
1860
1840
1820
1800
1780
1760
1740

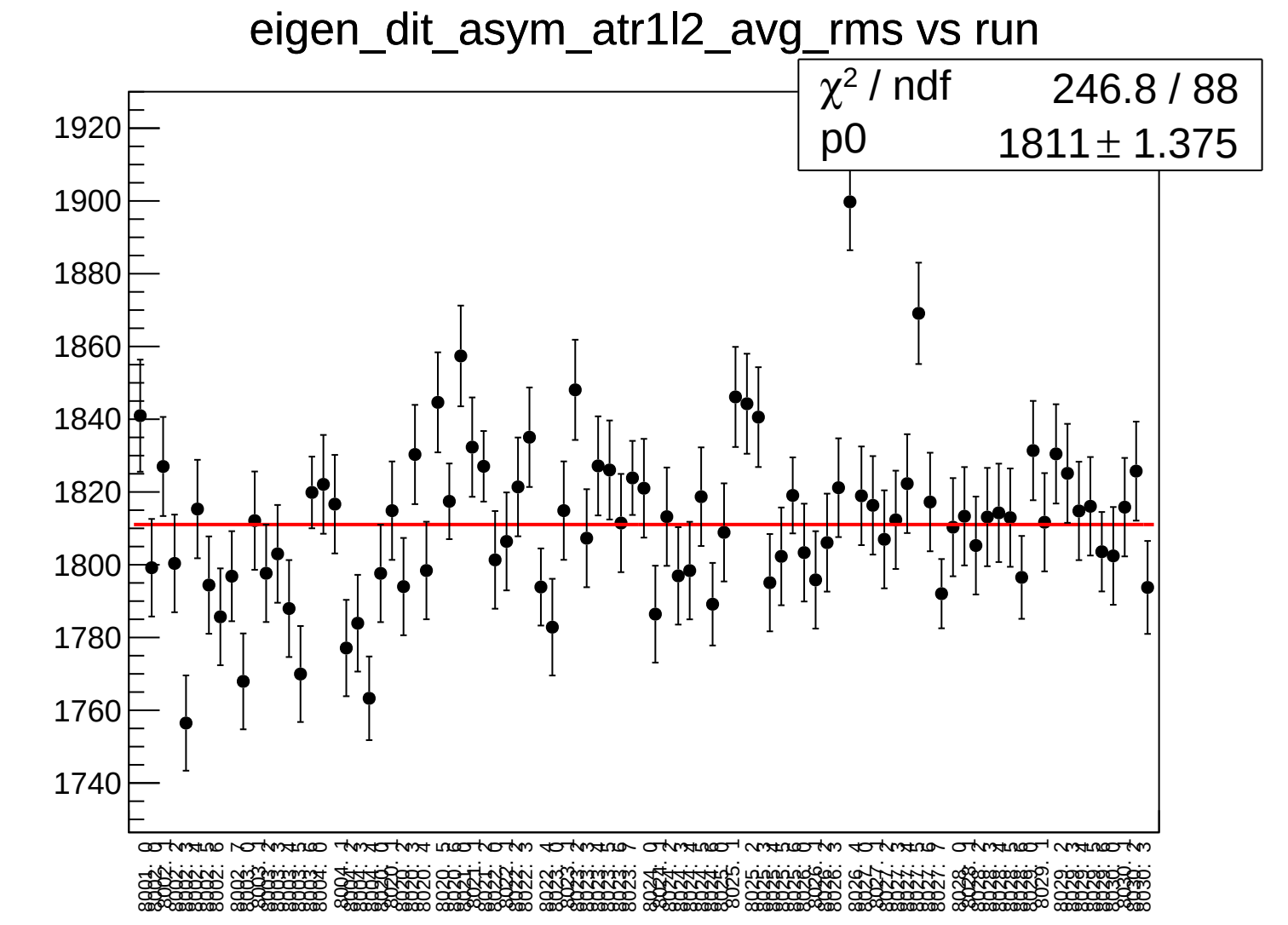

asym_atr1l2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 95.02 / 88
p0 1274 ± 5586
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean 155.4
Std Dev 0
2
1
0
−1
−2

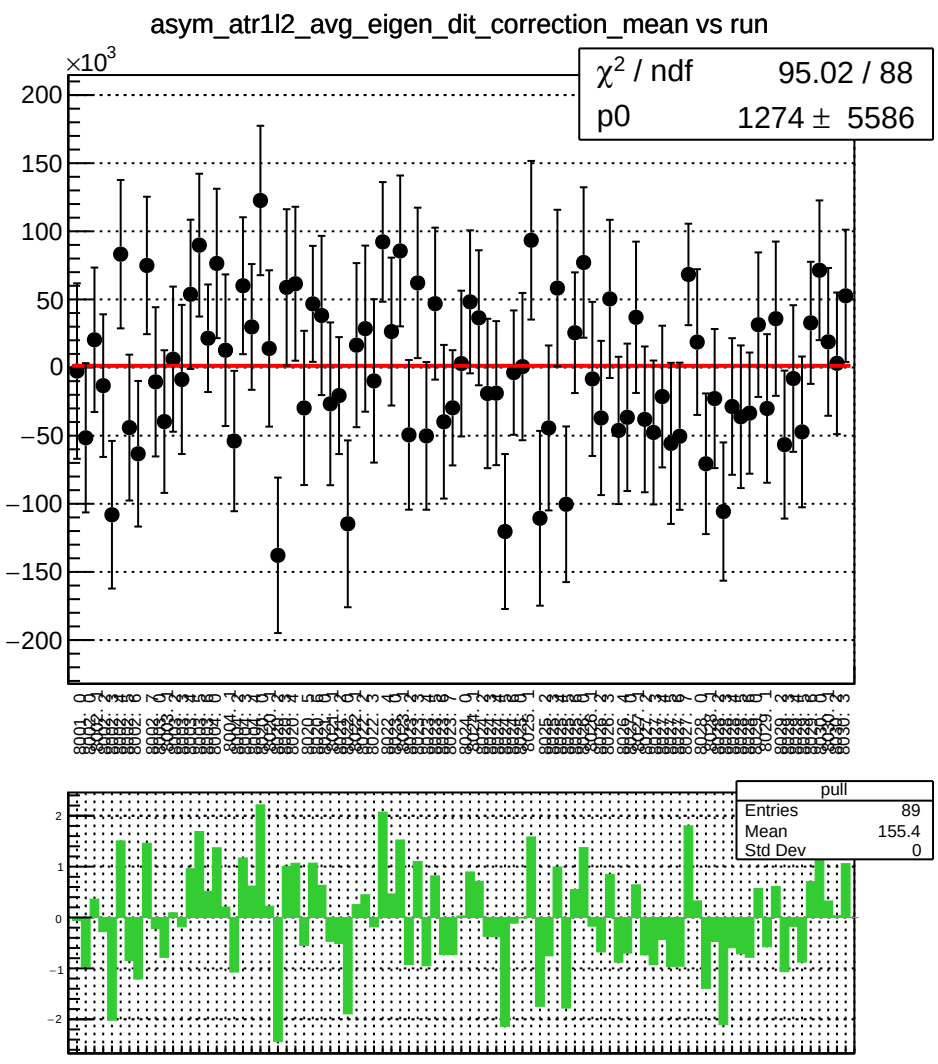

pull1D
Entries 89
Mean −0.02499
Std Dev 1.033
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

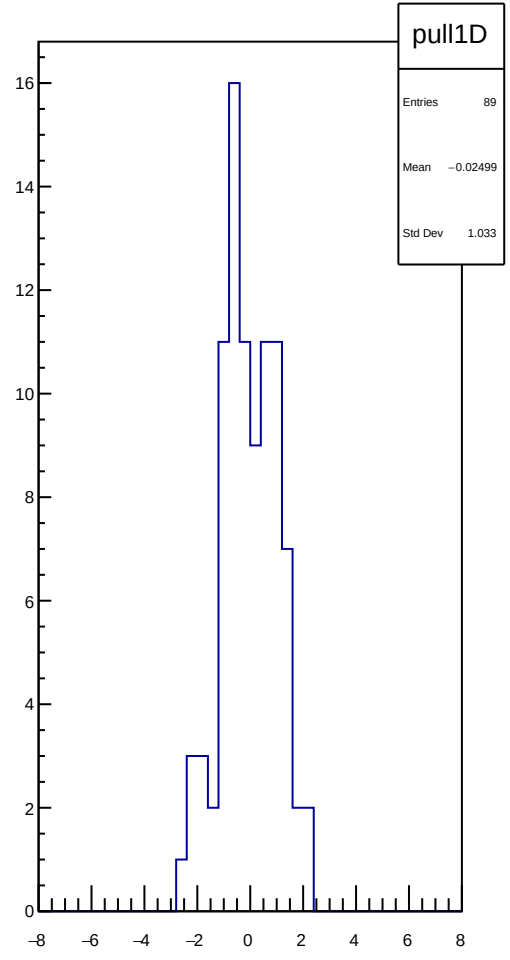

asym_atr1l2_avg_dit_correction_rms vs run
χ² / ndf 4136 / 88
p0 5196 ± 3.95
6200
6000
5800
5600
5400
5200
5000
4800
4600

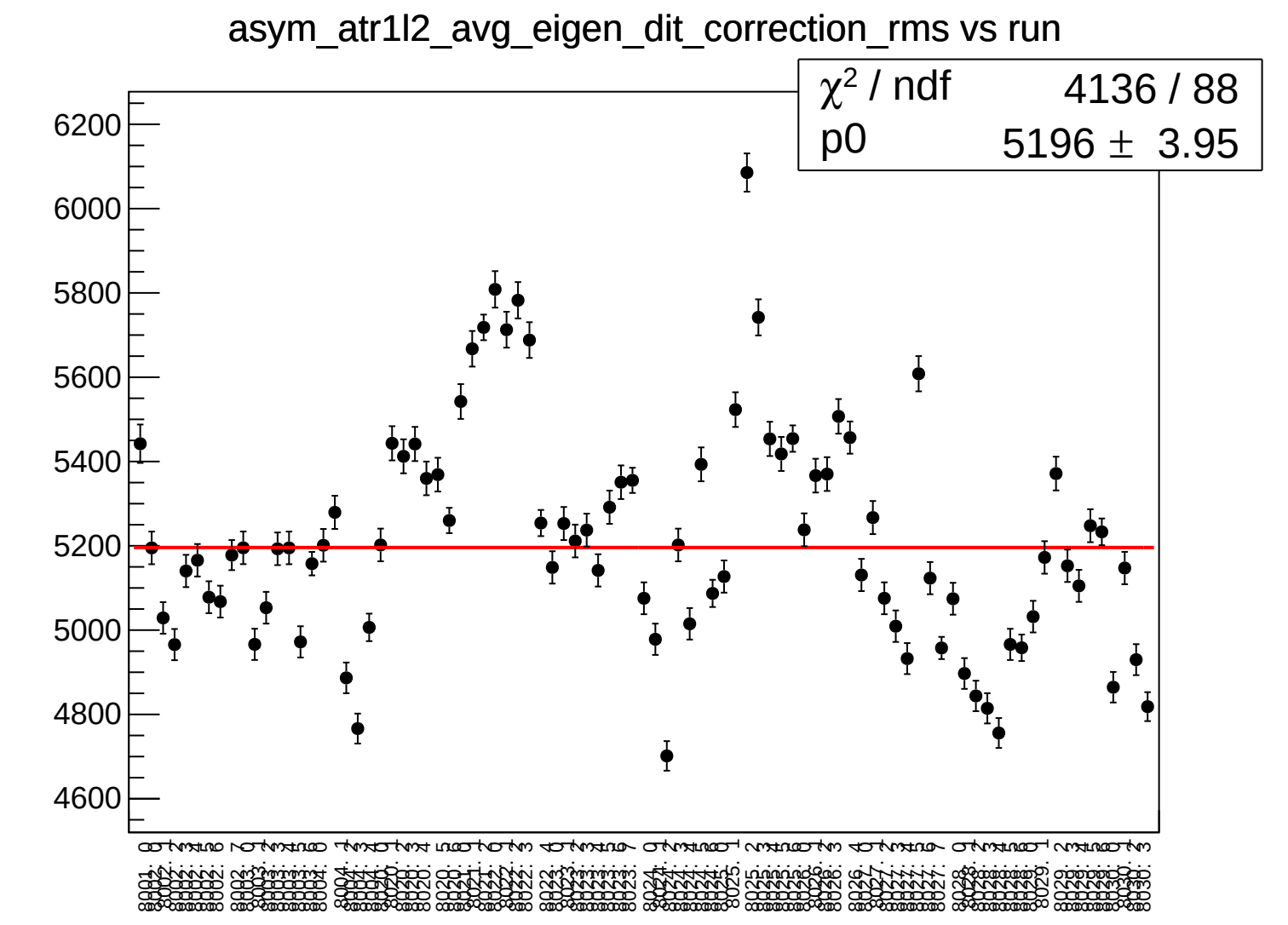

eigen_dit_asym_atr1l2_avg_mean vs run
χ² / ndf 71.62 / 88
p0 −3723 ± 1945
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −64.63
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

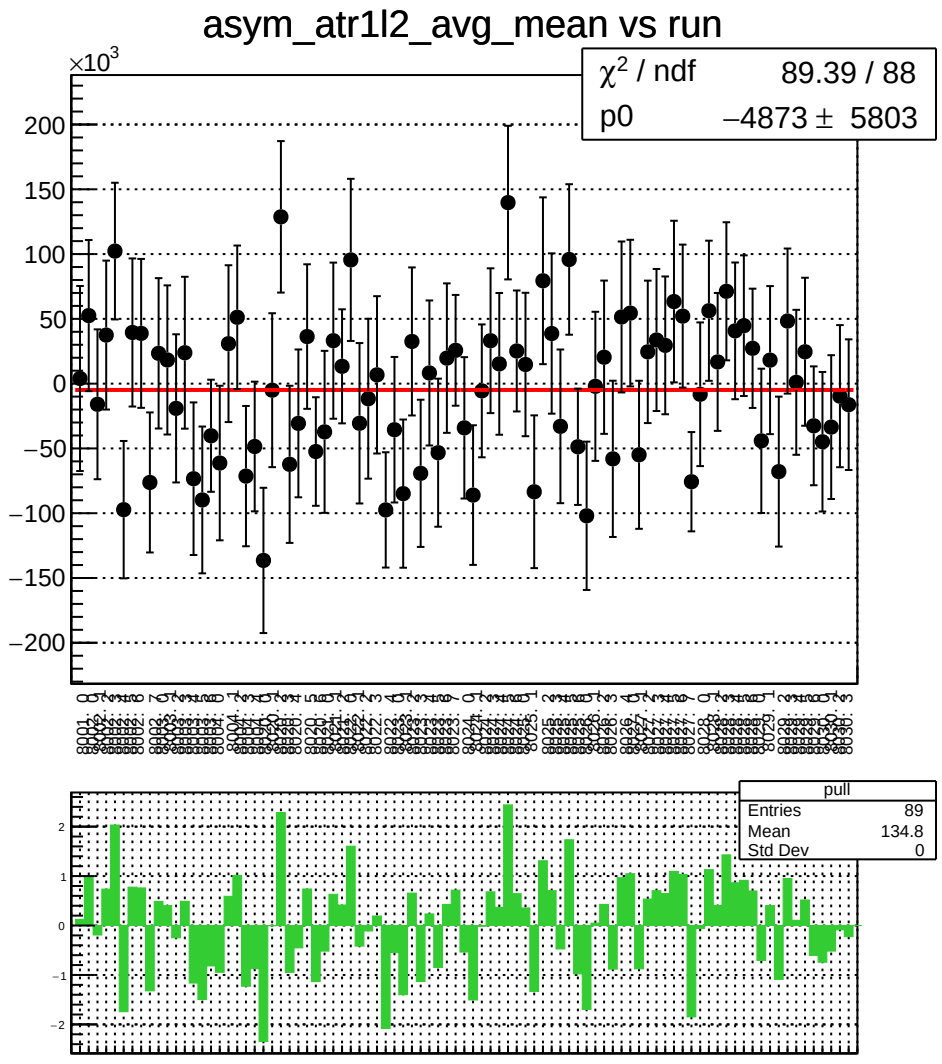

pull1D
Entries 89
Mean 0.00878
Std Dev 0.897
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

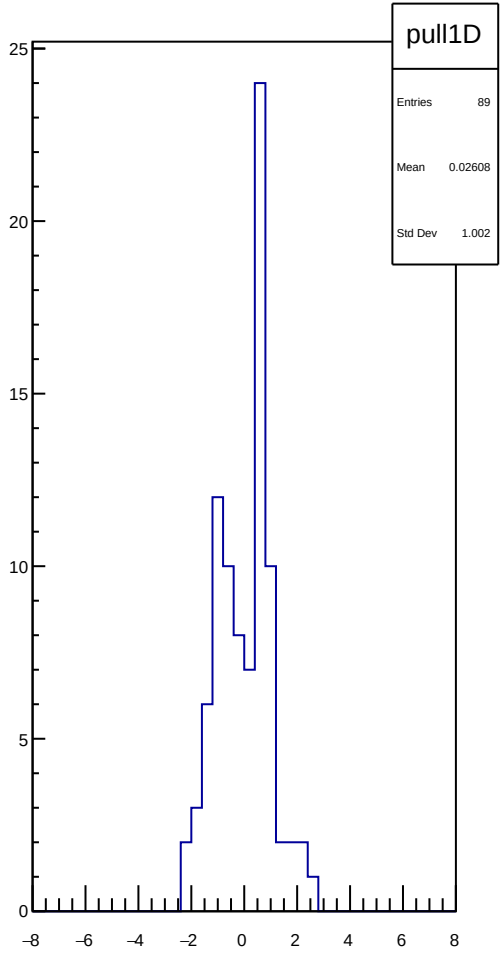

eigen_dit_asym_atr1l2_avg_rms vs run
χ² / ndf 246.8 / 88
p0 1811 ± 1.375
1920
1900
1880
1860
1840
1820
1800
1780
1760
1740

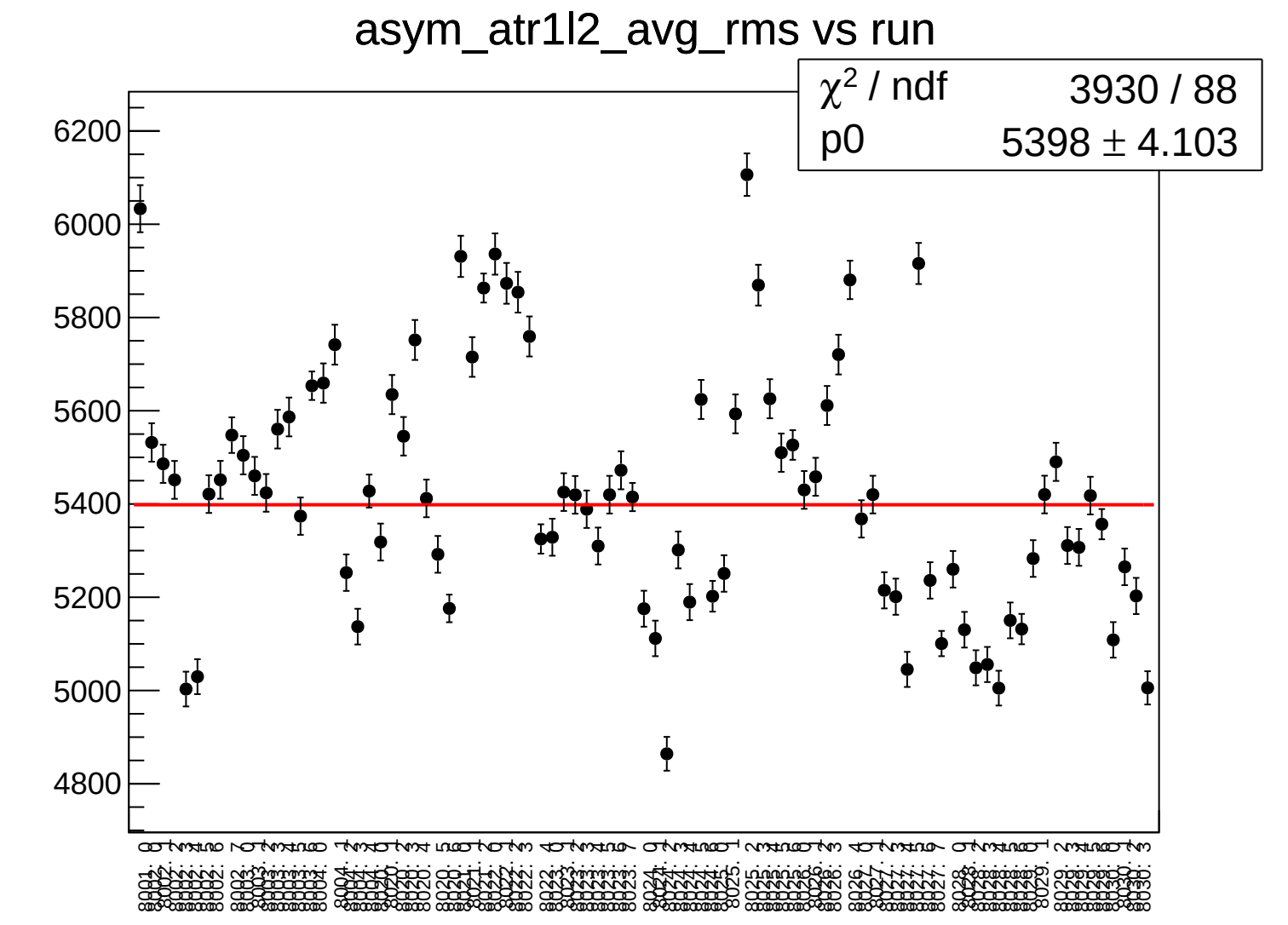

asym_atr1l2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 95.02 / 88
p0 1274 ± 5586
pull
Entries 89
Mean 155.4
Std Dev 0

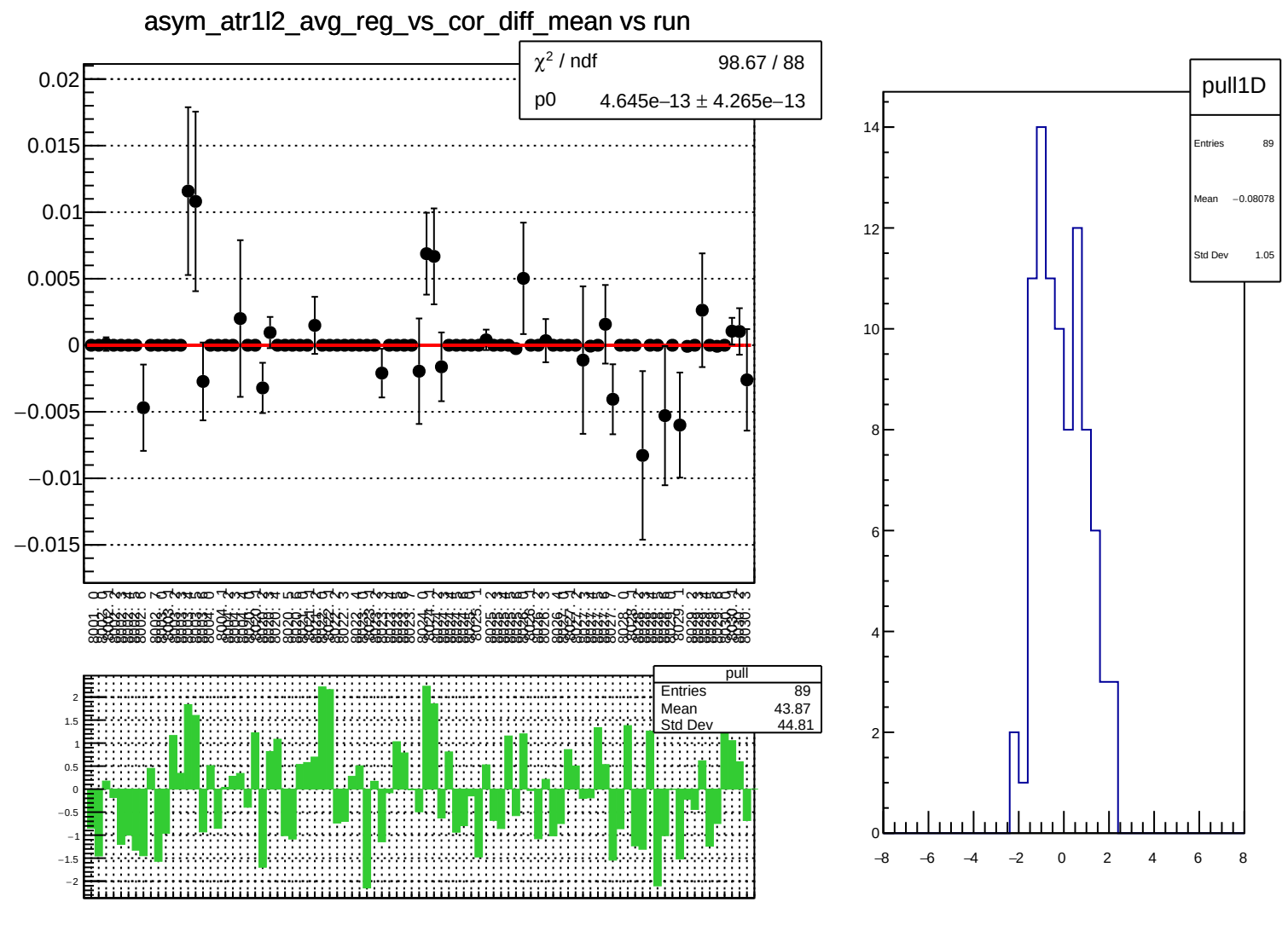

pull1D
Entries 89
Mean −0.02499
Std Dev 1.033

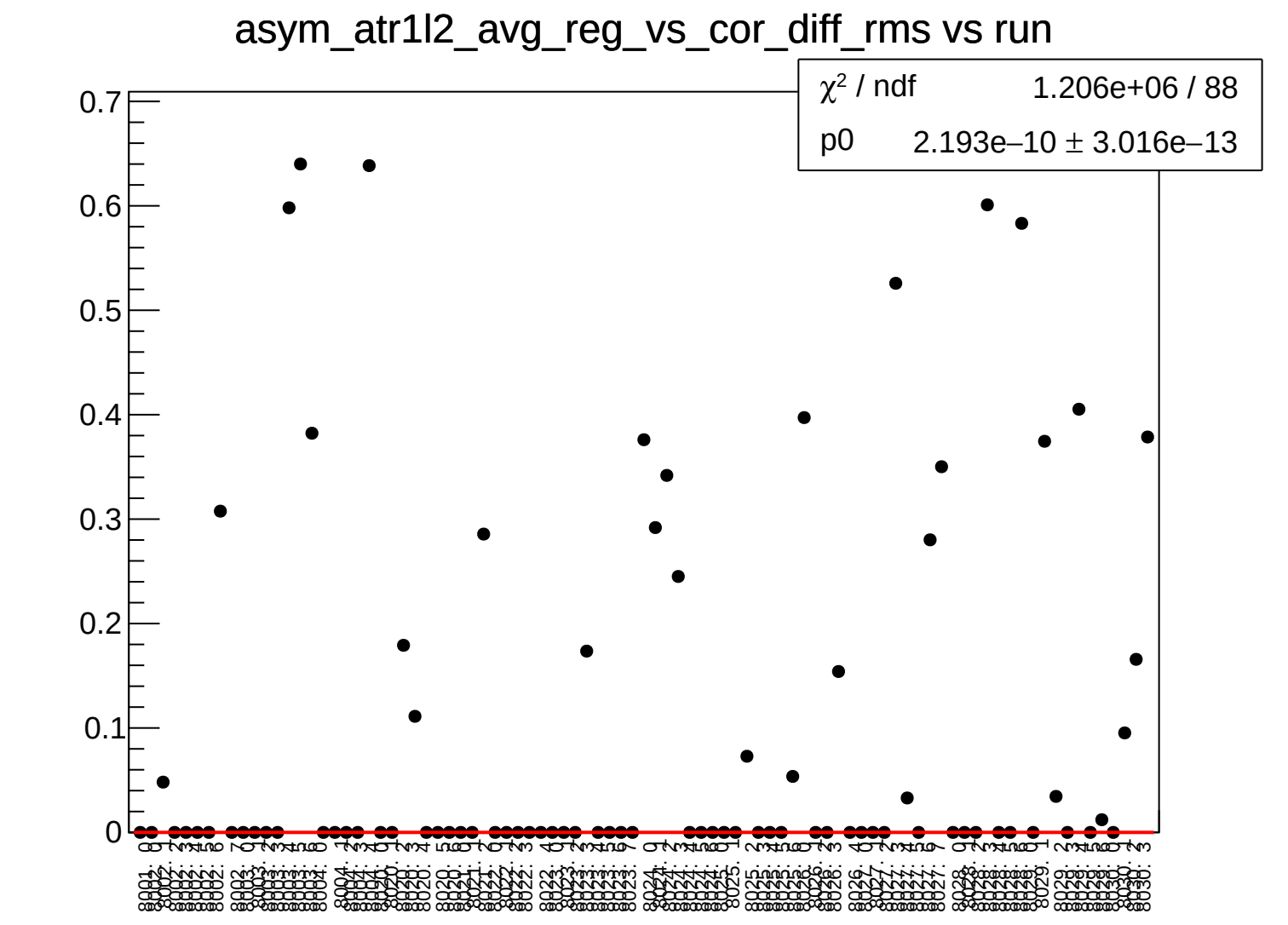

asym_atr1l2_avg_eigen_dit_correction_rms vs run
χ² / ndf 4136 / 88
p0 5196 ± 3.95
6200
6000
5800
5600
5400
5200
5000
4800
4600

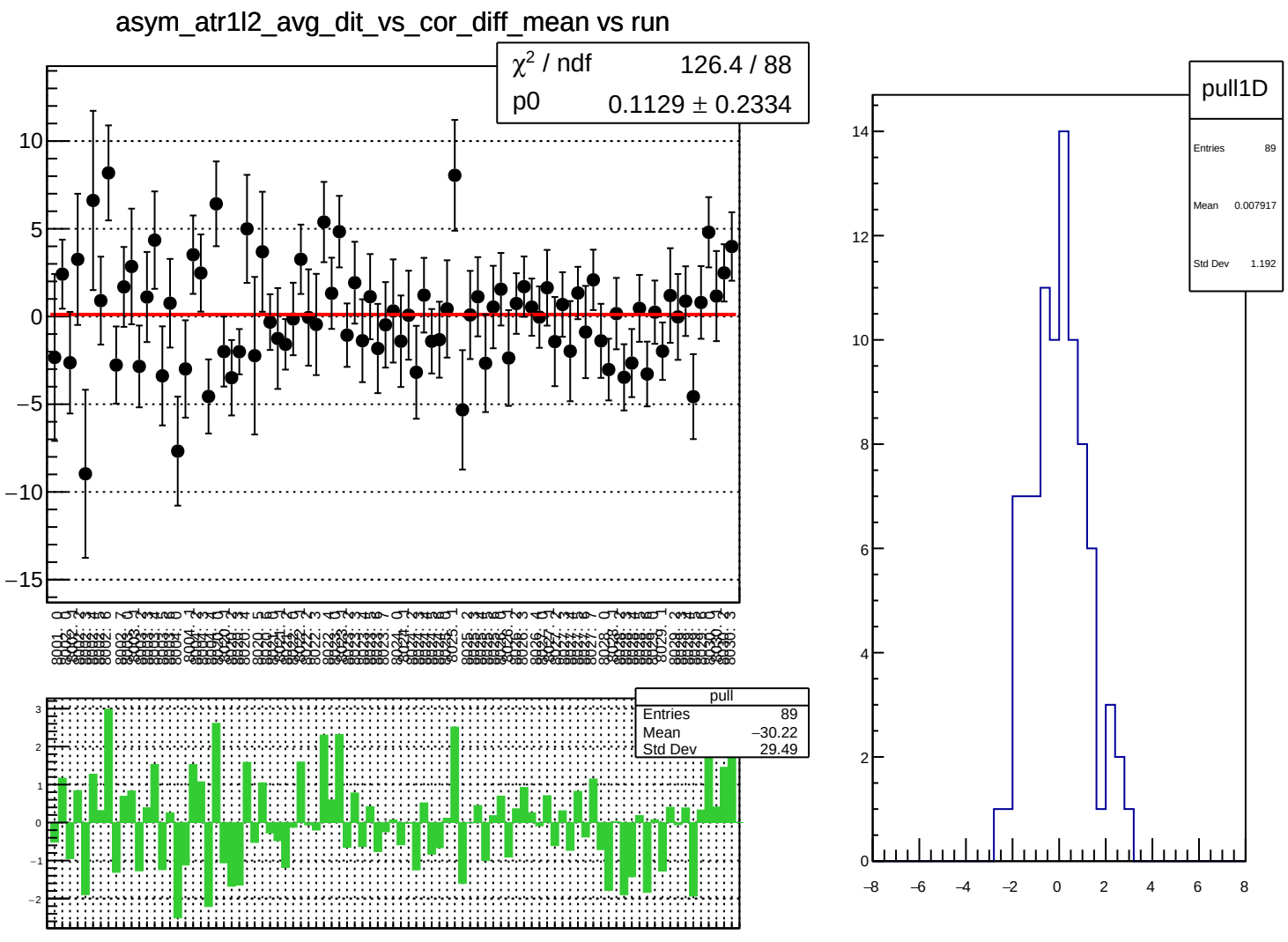

asym_atr1l2_avg_mean vs run
×10^3
χ^2 / ndf 89.39 / 88
p0 −4873 ± 5803
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean 134.8
Std Dev 0
2
1
0
−1
−2

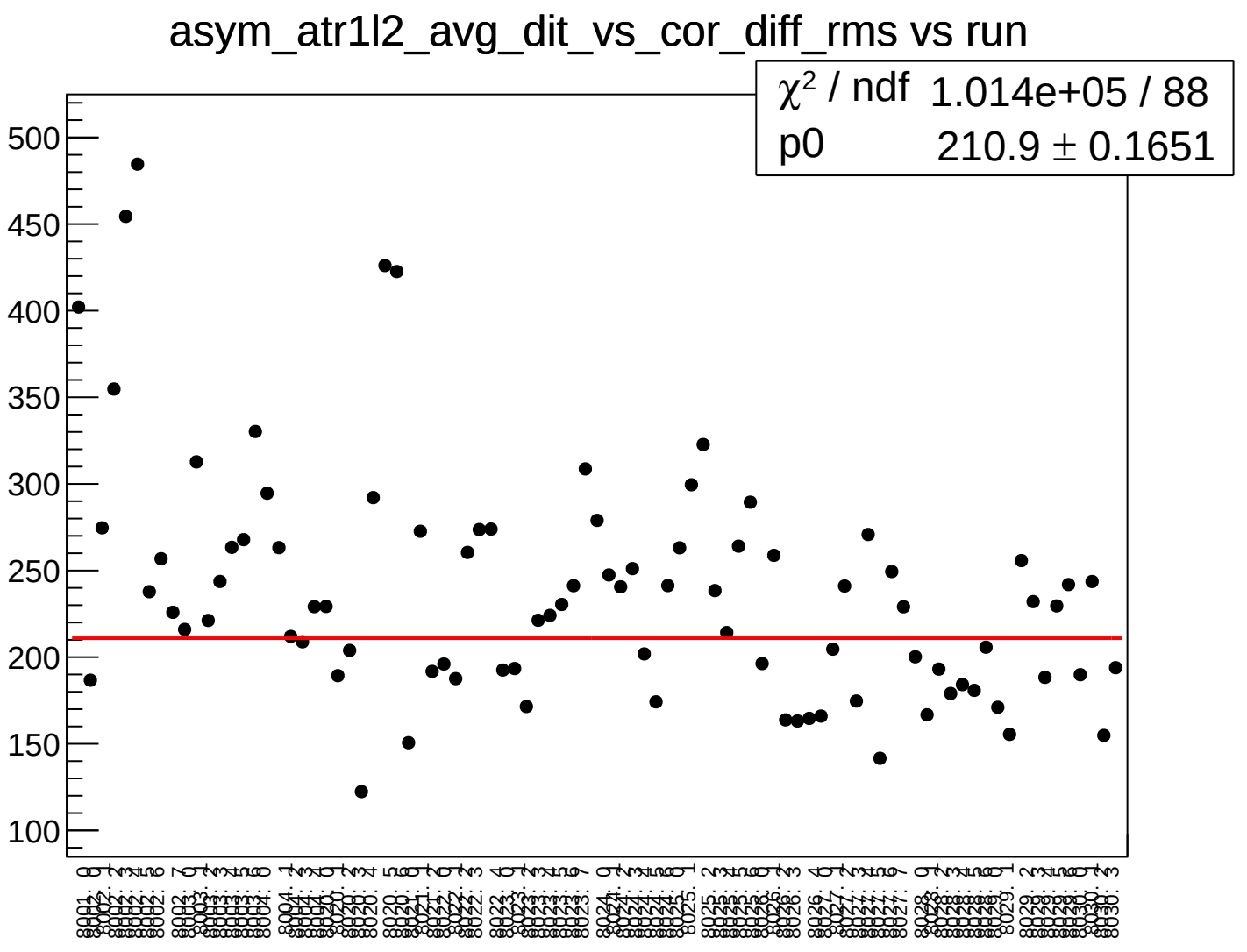

pull1D
Entries 89
Mean 0.02608
Std Dev 1.002
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

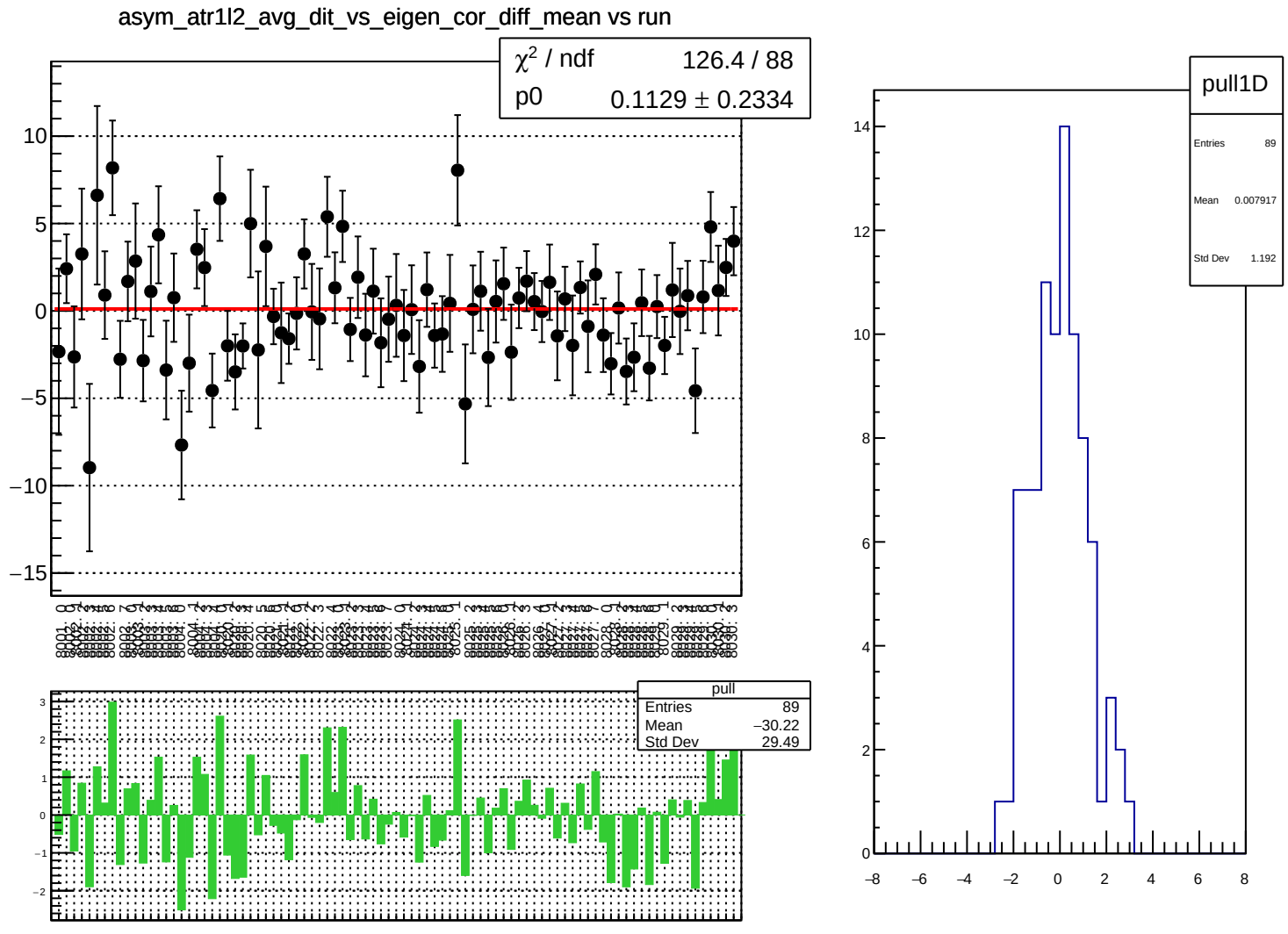

asym_atr1l2_avg_rms vs run
χ² / ndf 3930 / 88
p0 5398 ± 4.103
6200
6000
5800
5600
5400
5200
5000
4800

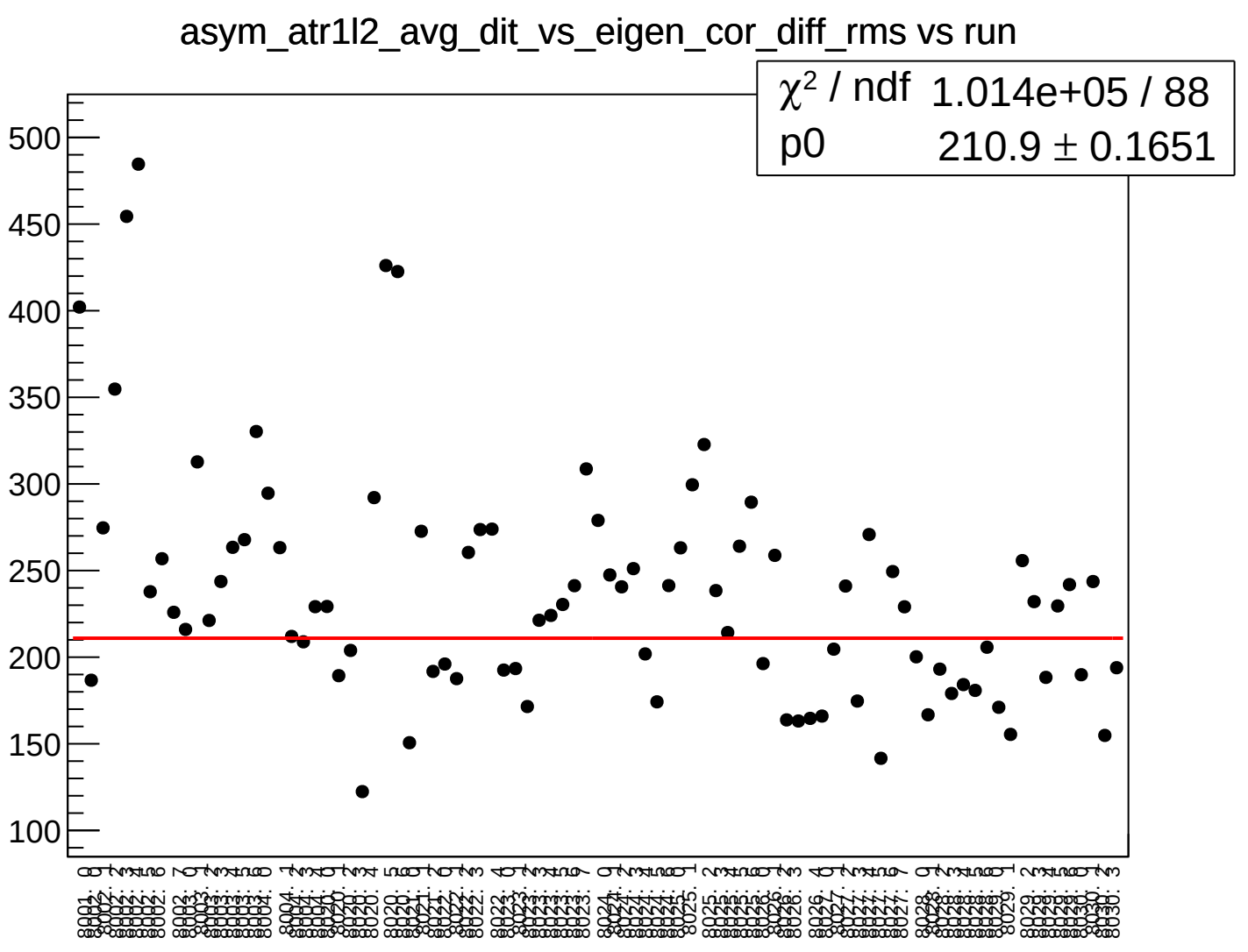

asym_atr1l2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 98.67 / 88
p0 4.645e−13 ± 4.265e−13
pull
Entries 89
Mean 43.87
Std Dev 44.81
pull1D
Entries 89
Mean −0.08078
Std Dev 1.05

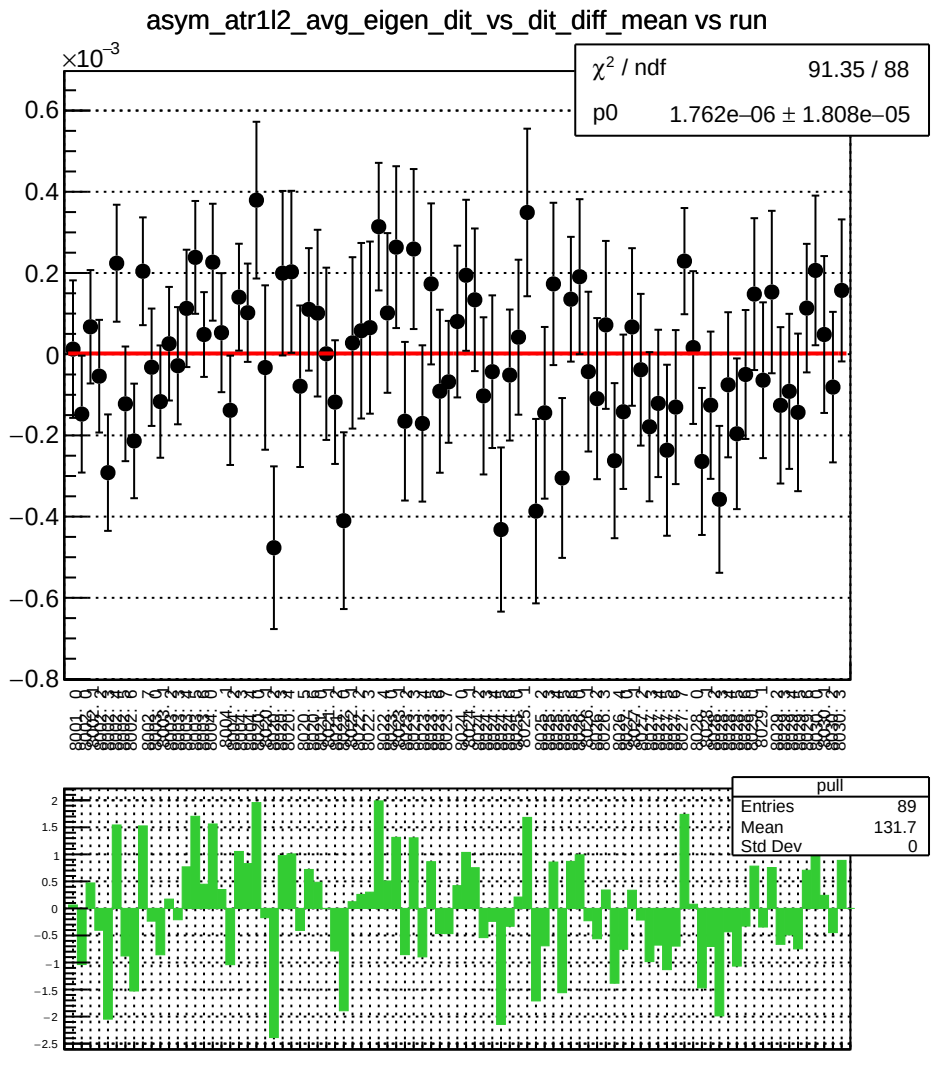

asym_atr1l2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.206e+06 / 88
p0 2.193e−10 ± 3.016e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

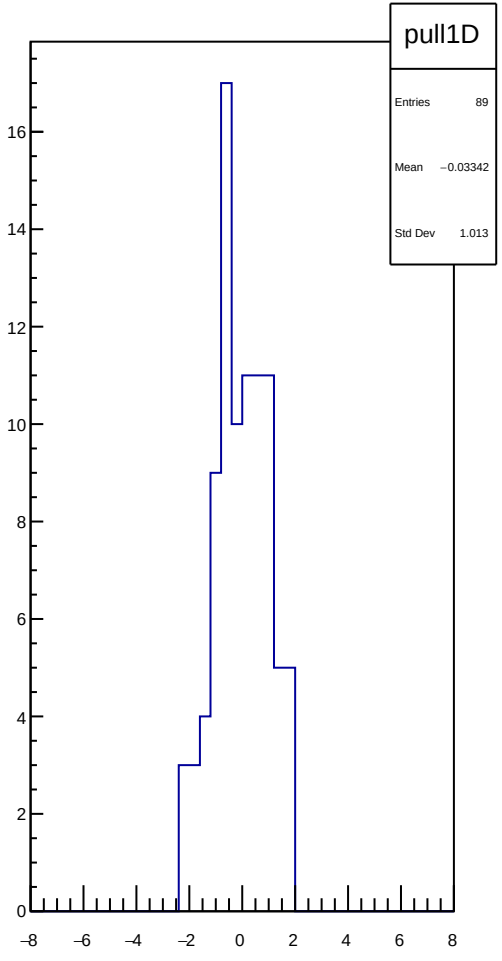

asym_atr1l2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 126.4 / 88
p0 0.1129 ± 0.2334
pull
Entries 89
Mean −30.22
Std Dev 29.49
pull1D
Entries 89
Mean 0.007917
Std Dev 1.192

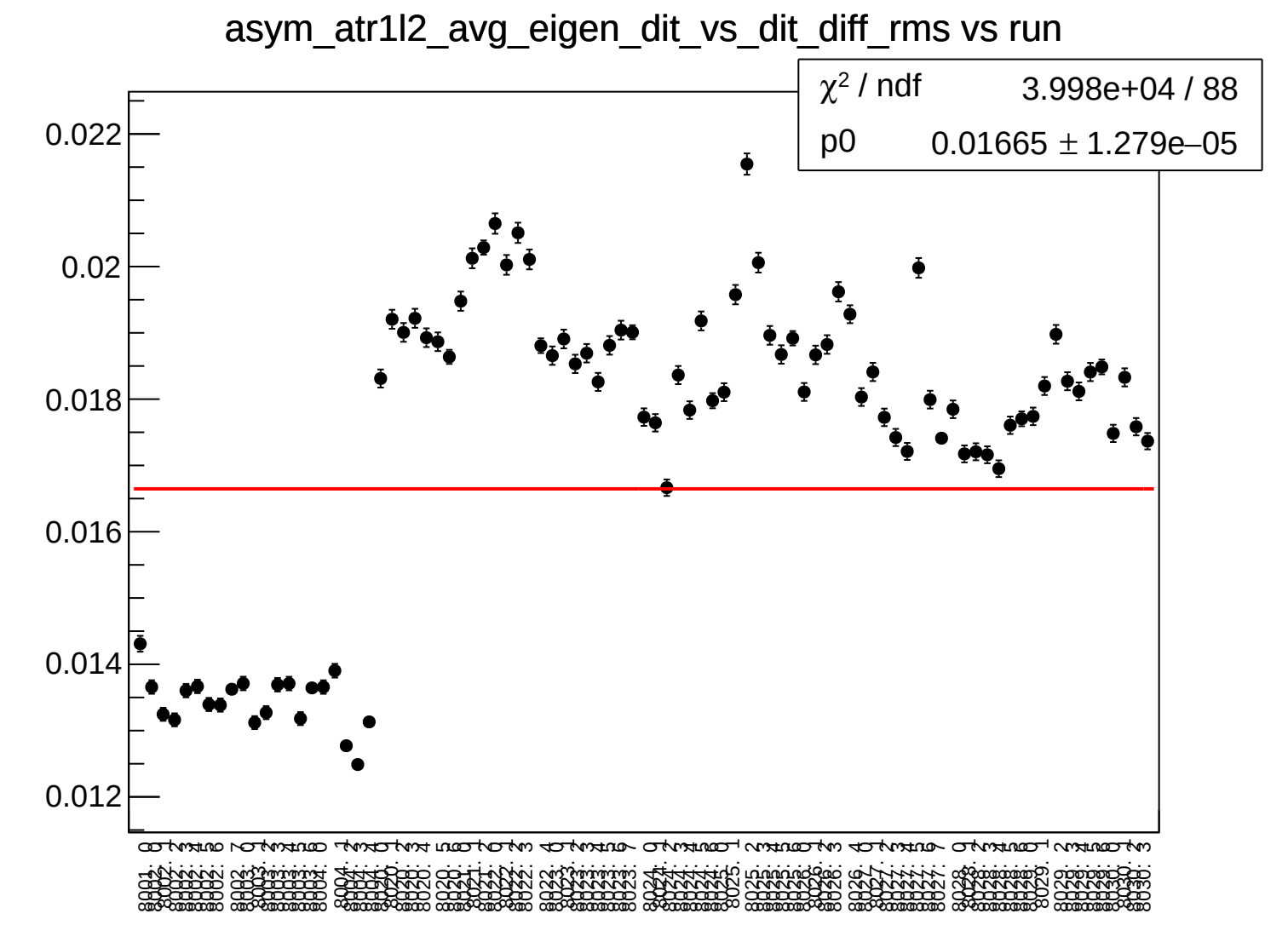

asym_atr1l2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.014e+05 / 88
p0 210.9 ± 0.1651
500
450
400
350
300
250
200
150
100

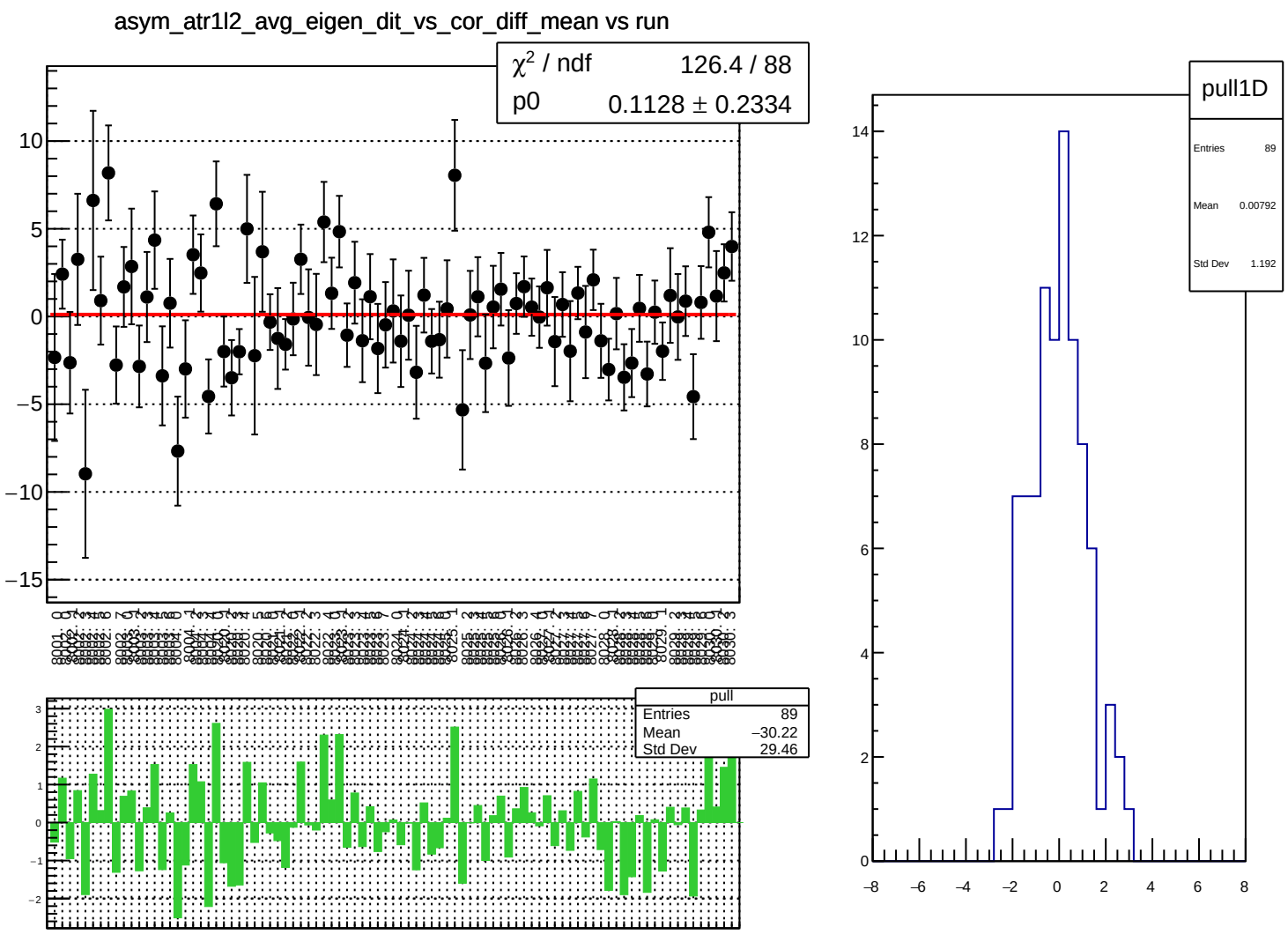

asym_atr1l2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 126.4 / 88
p0 0.1129 ± 0.2334
pull
Entries 89
Mean −30.22
Std Dev 29.49
pull1D
Entries 89
Mean 0.007917
Std Dev 1.192

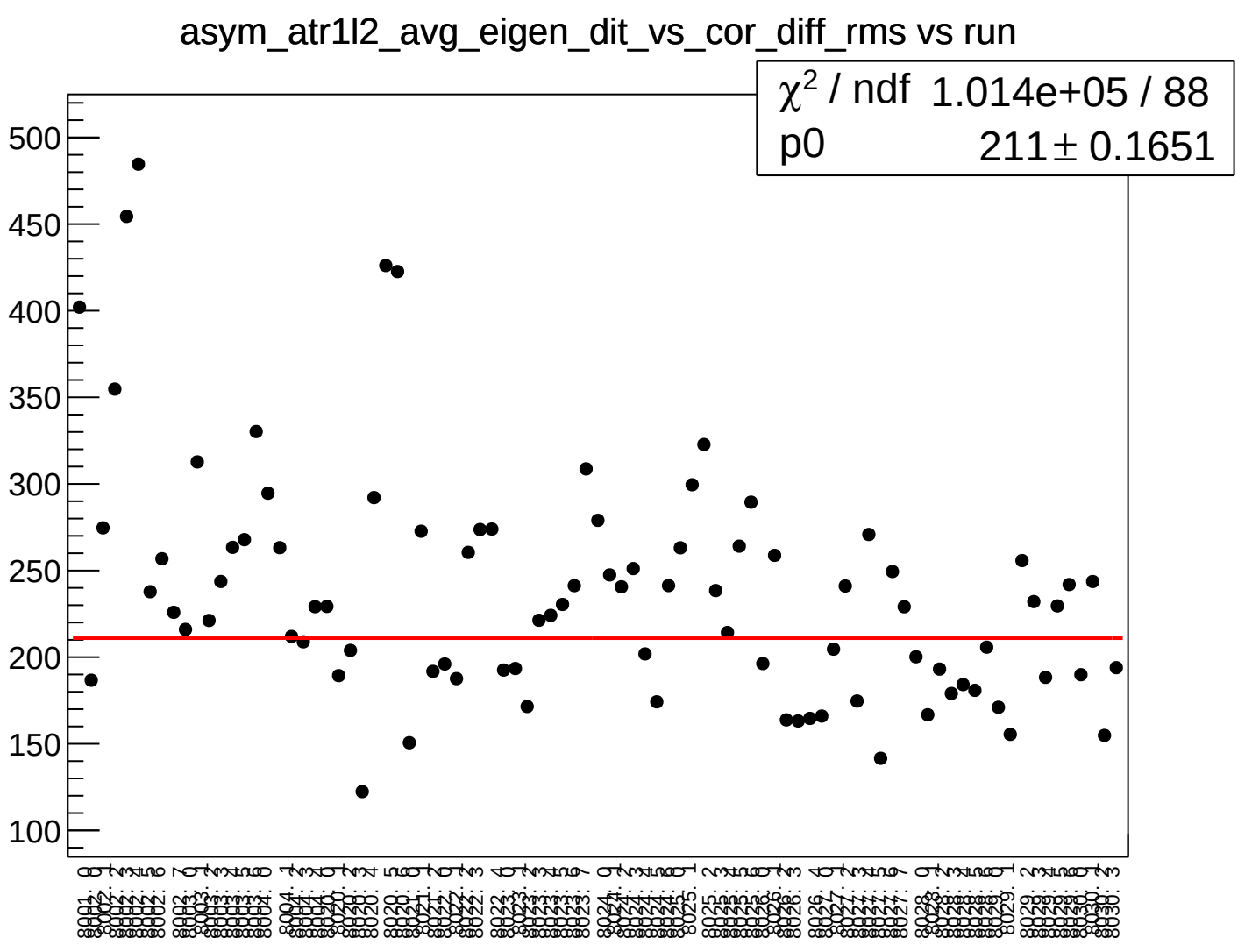

asym_atr1l2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.014e+05 / 88
p0 210.9 ± 0.1651
500
450
400
350
300
250
200
150
100

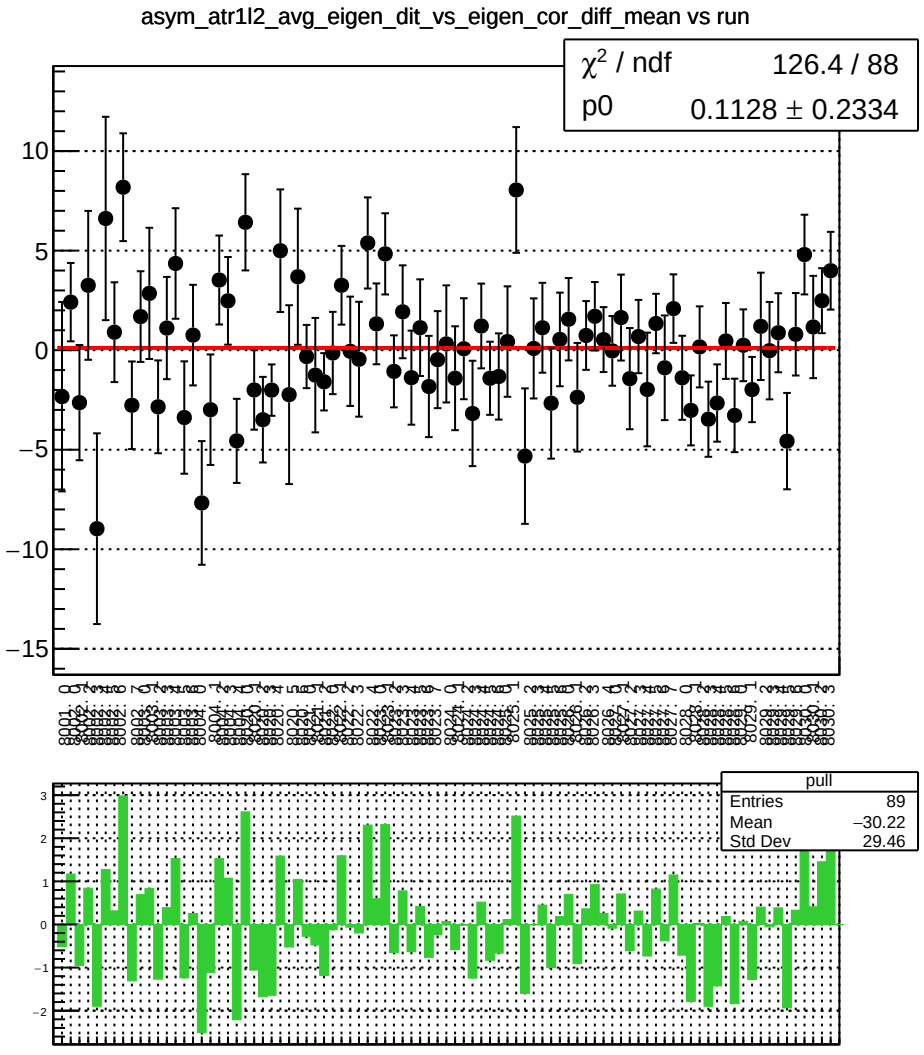

asym_atr1l2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.35 / 88
p0 1.762e−06 ± 1.808e−05
pull
Entries 89
Mean 131.7
Std Dev 0

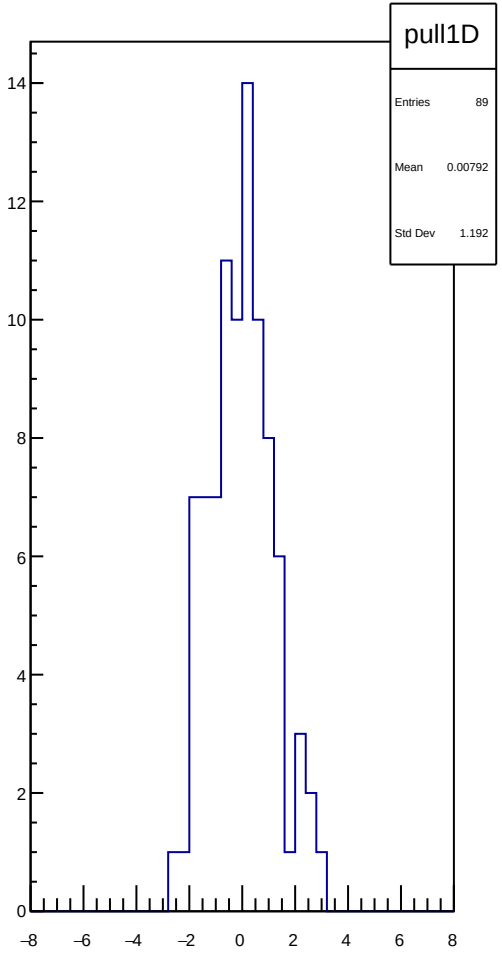

pull1D
Entries 89
Mean −0.03342
Std Dev 1.013

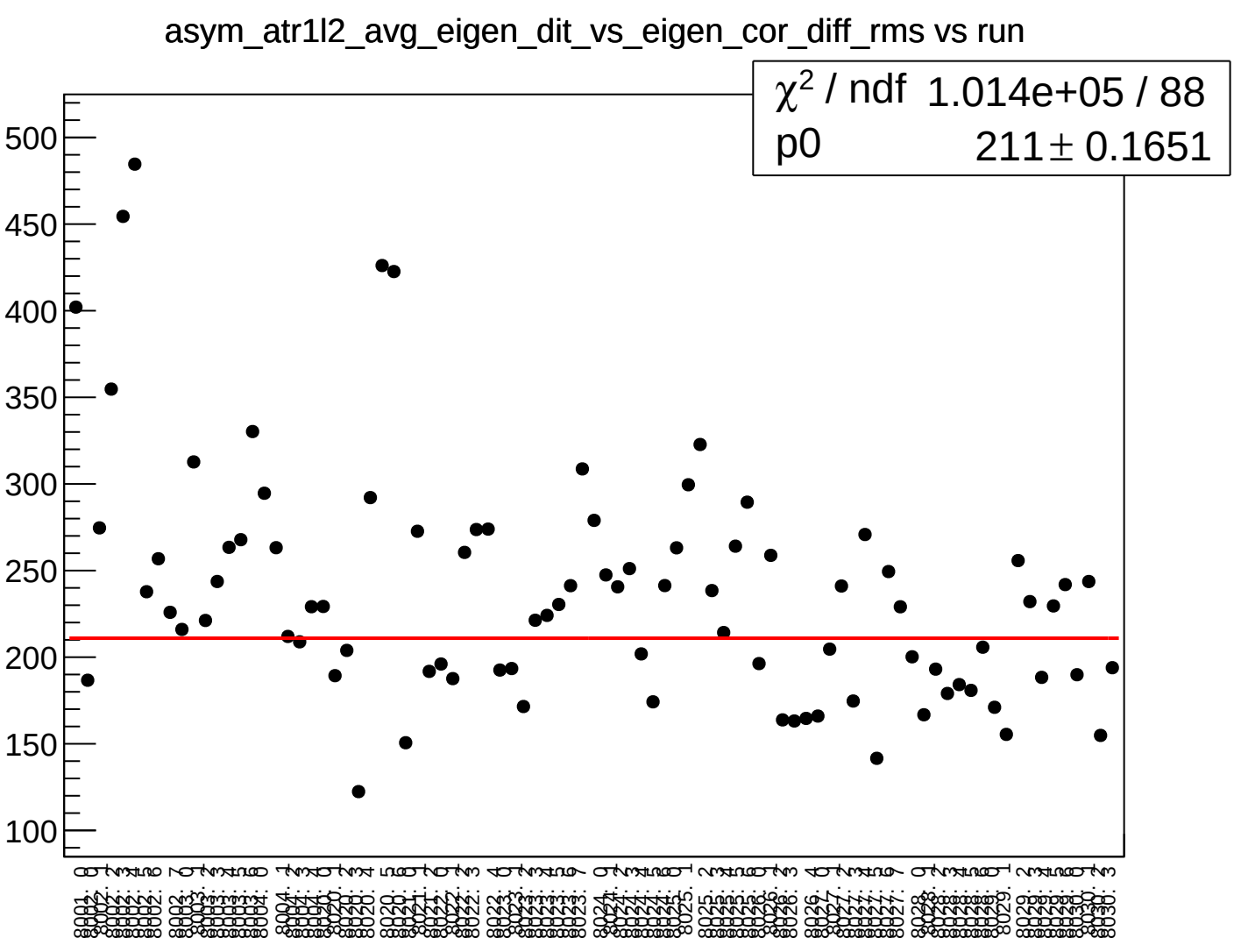

asym_atr1l2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.998e+04 / 88
p0 0.01665 ± 1.279e−05
0.022
0.02
0.018
0.016
0.014
0.012

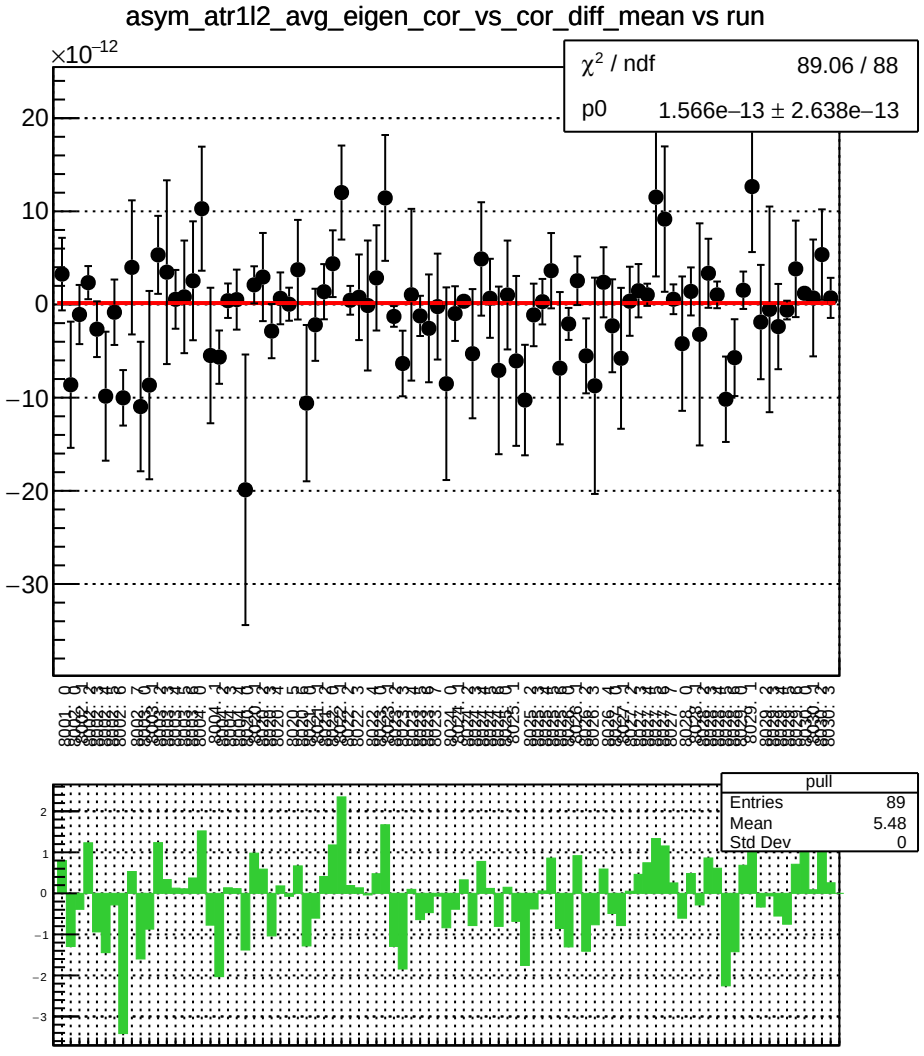

asym_atr1l2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 126.4 / 88
p0 0.1128 ± 0.2334
pull
Entries 89
Mean −30.22
Std Dev 29.46
pull1D
Entries 89
Mean 0.00792
Std Dev 1.192

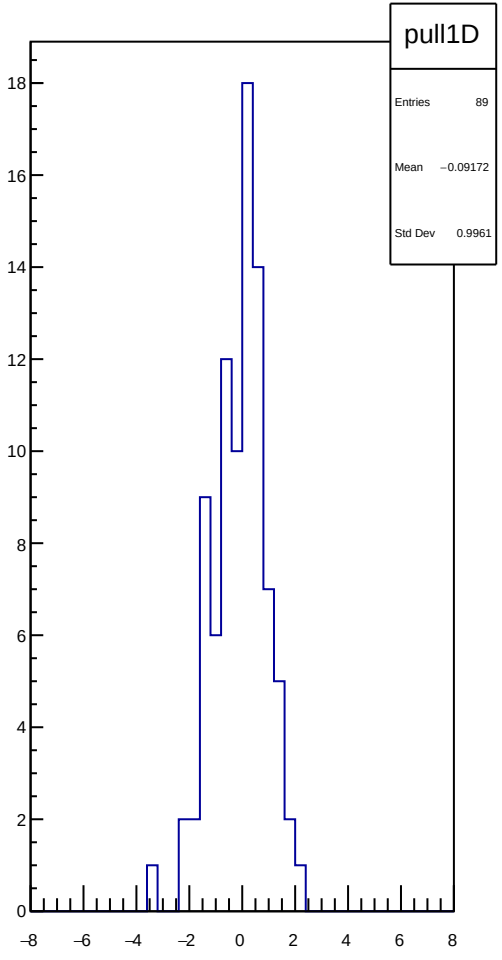

asym_atr1l2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.014e+05 / 88
p0 211 ± 0.1651
500
450
400
350
300
250
200
150
100

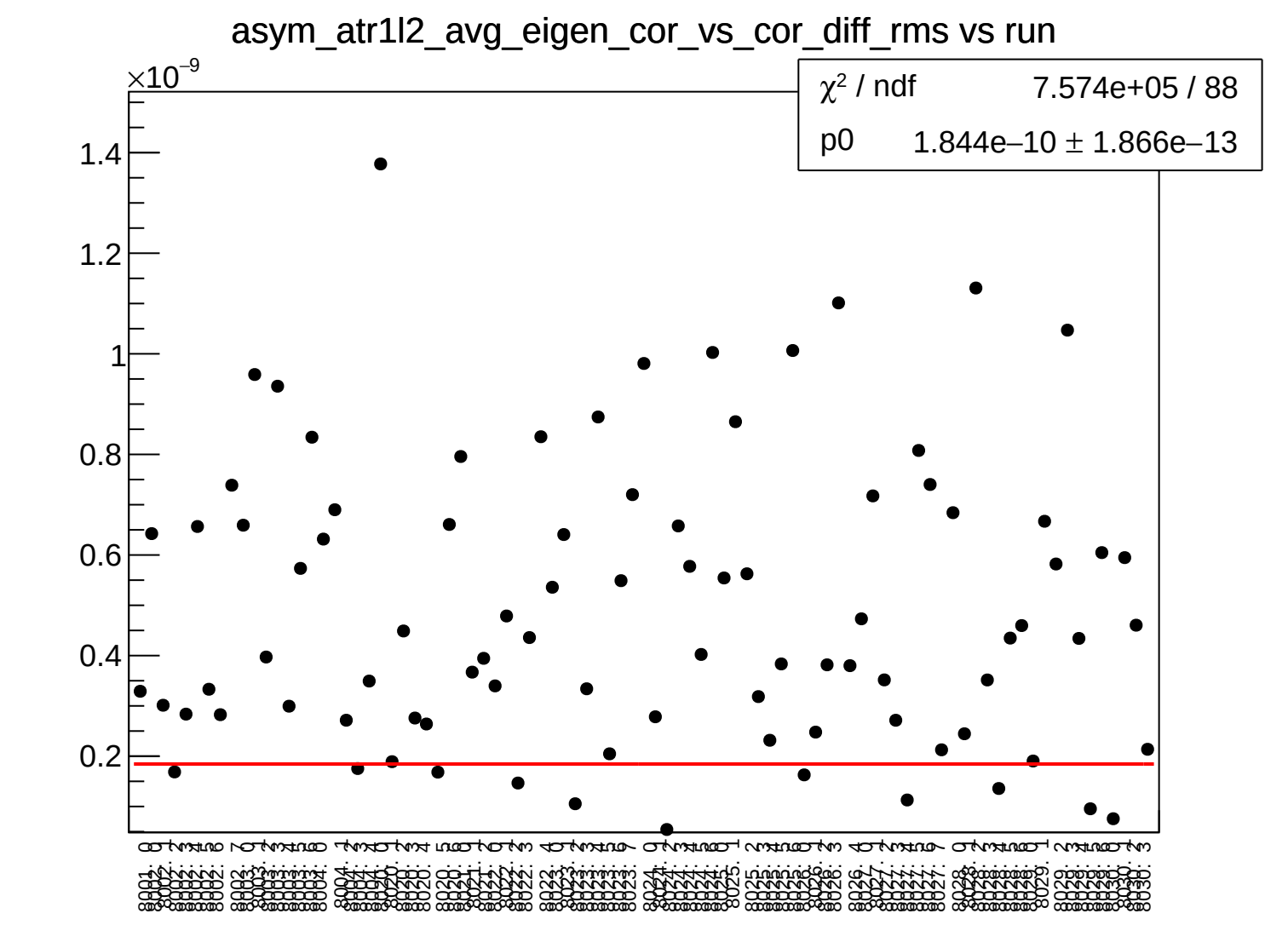

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 126.4 / 88
p0 0.1128 ± 0.2334
pull
Entries 89
Mean −30.22
Std Dev 29.46

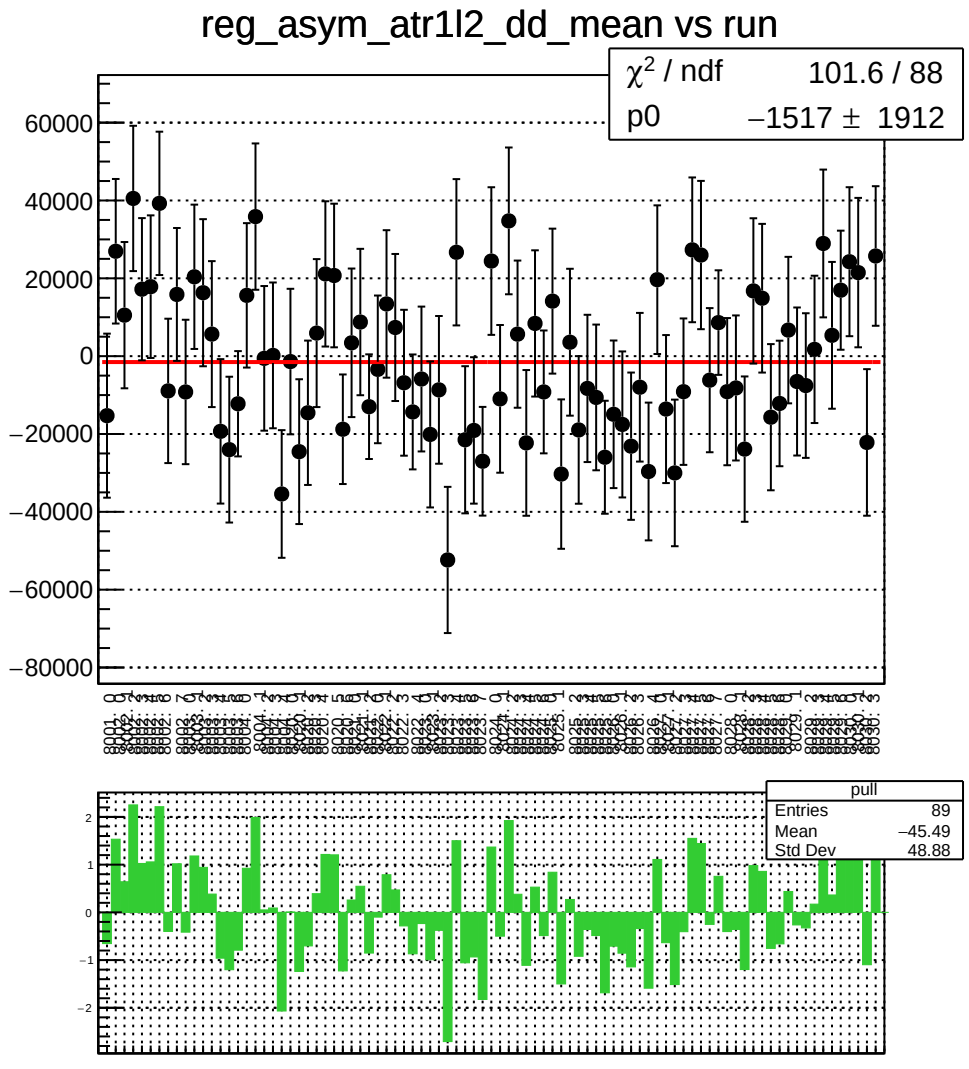

pull1D
Entries 89
Mean 0.00792
Std Dev 1.192

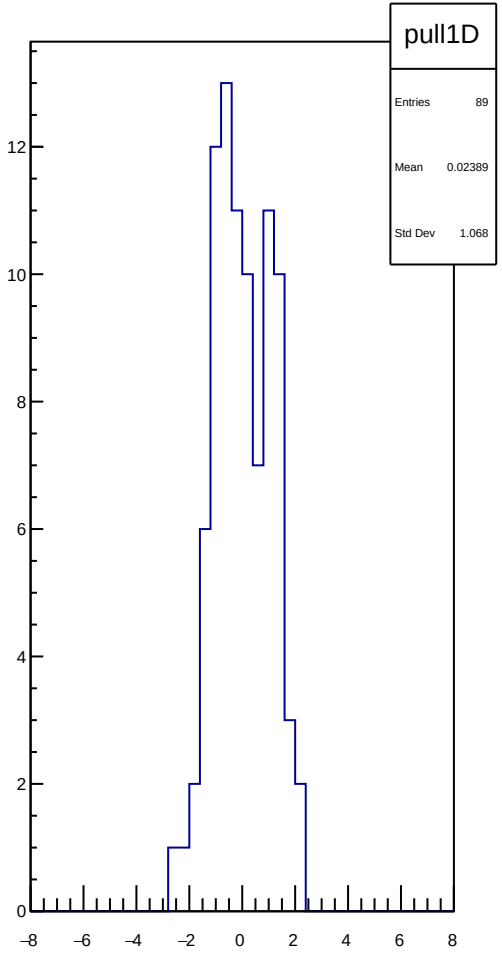

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.014e+05 / 88
p0 211 ± 0.1651
500
450
400
350
300
250
200
150
100

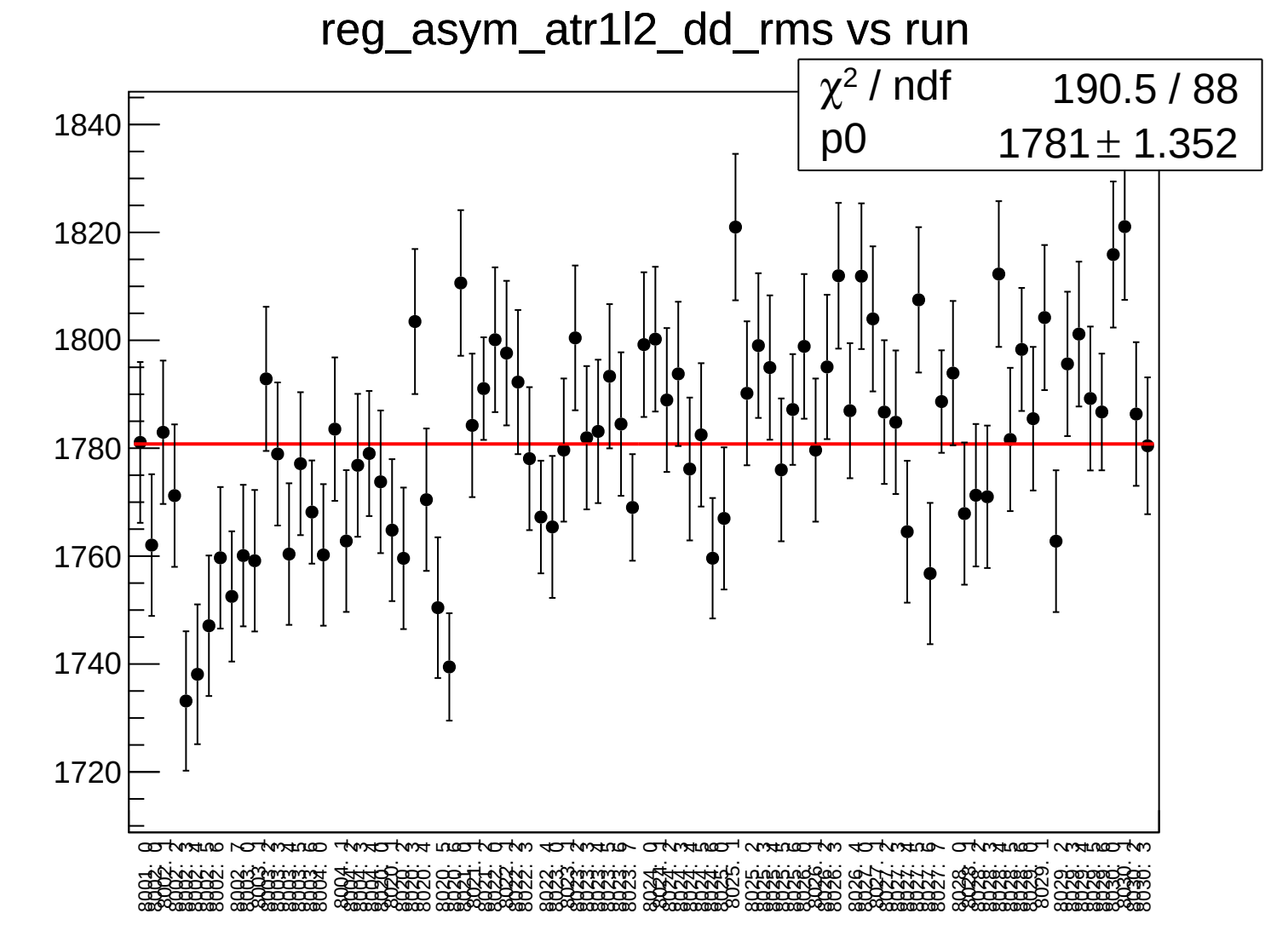

asym_atr1l2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.06 / 88
p0 1.566e−13 ± 2.638e−13
pull
Entries 89
Mean 5.48
Std Dev 0

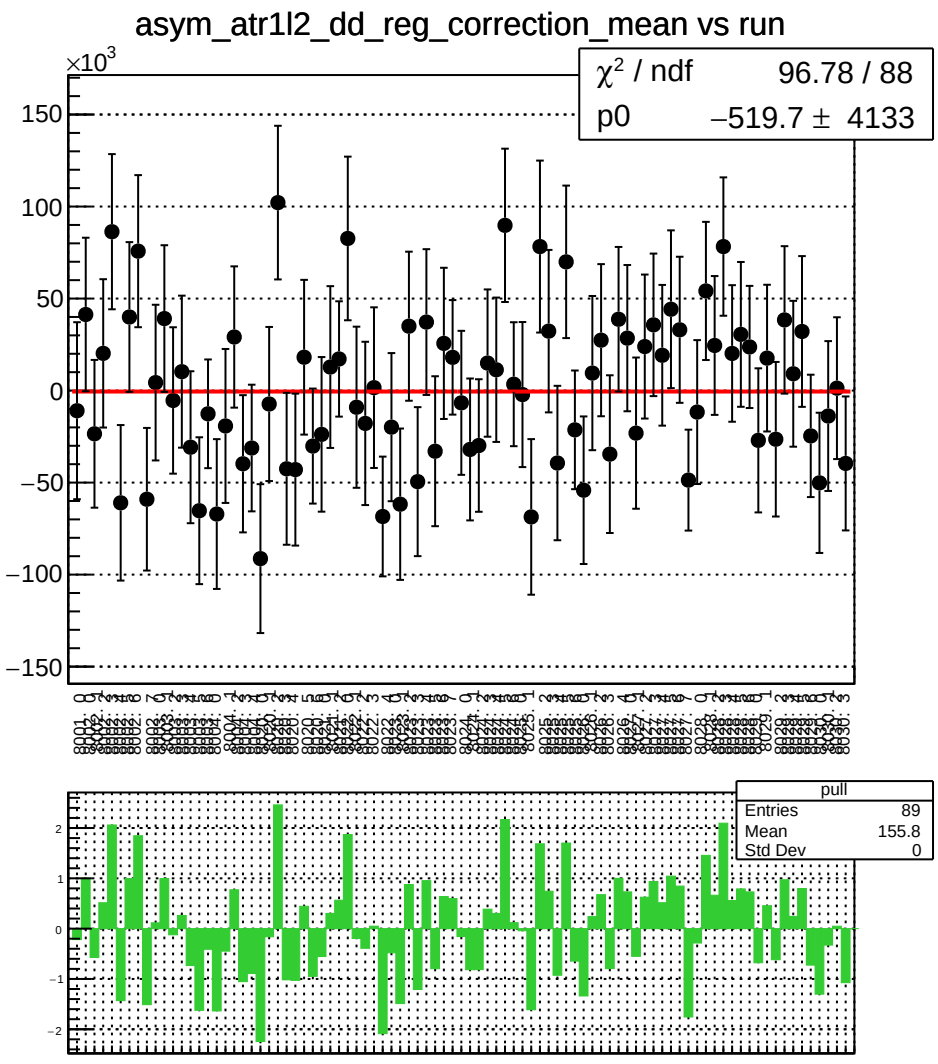

pull1D
Entries 89
Mean −0.09172
Std Dev 0.9961

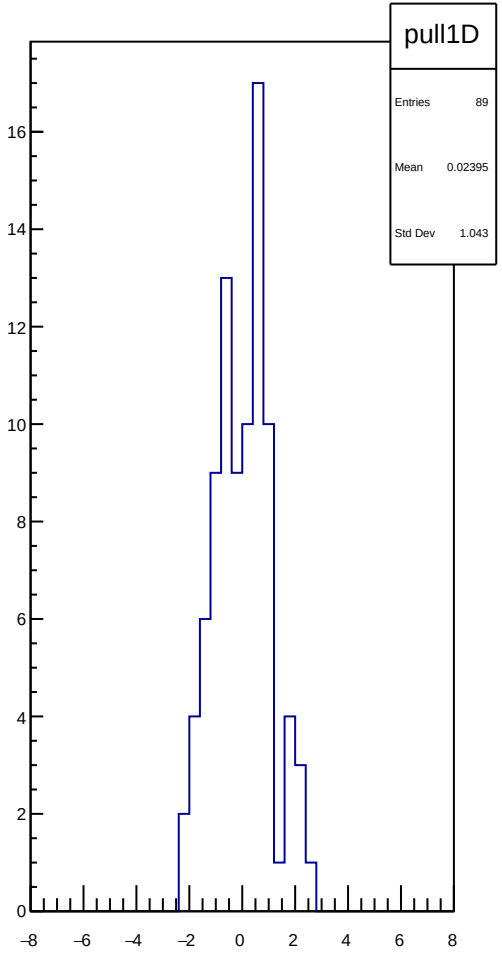

asym_atr1l2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.574e+05 / 88
p0 1.844e−10 ± 1.866e−13
1.4
1.2
1
0.8
0.6
0.4
0.2

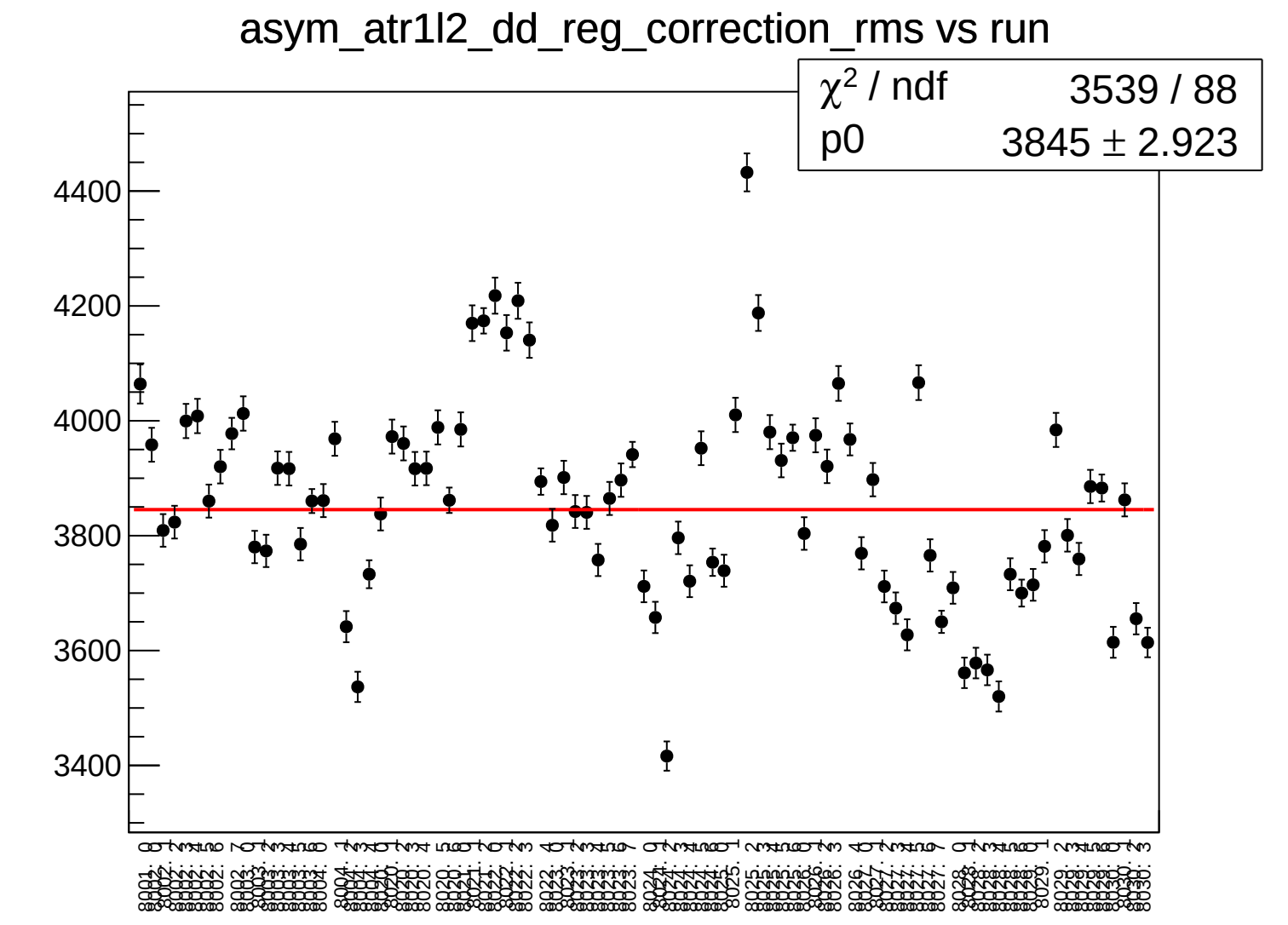

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 101.6 / 88
p0 −1517 ± 1912
pull
Entries 89
Mean −45.49
Std Dev 48.88

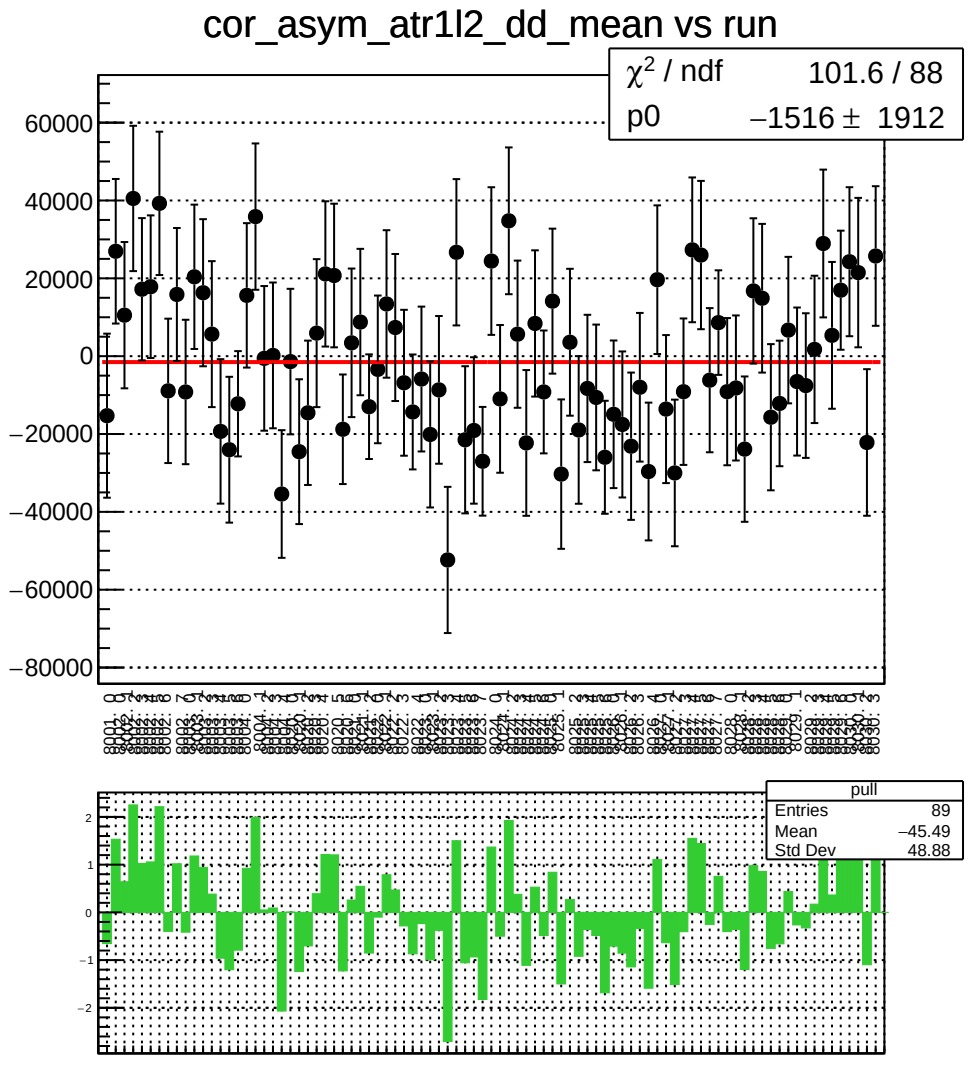

pull1D
Entries 89
Mean 0.02389
Std Dev 1.068

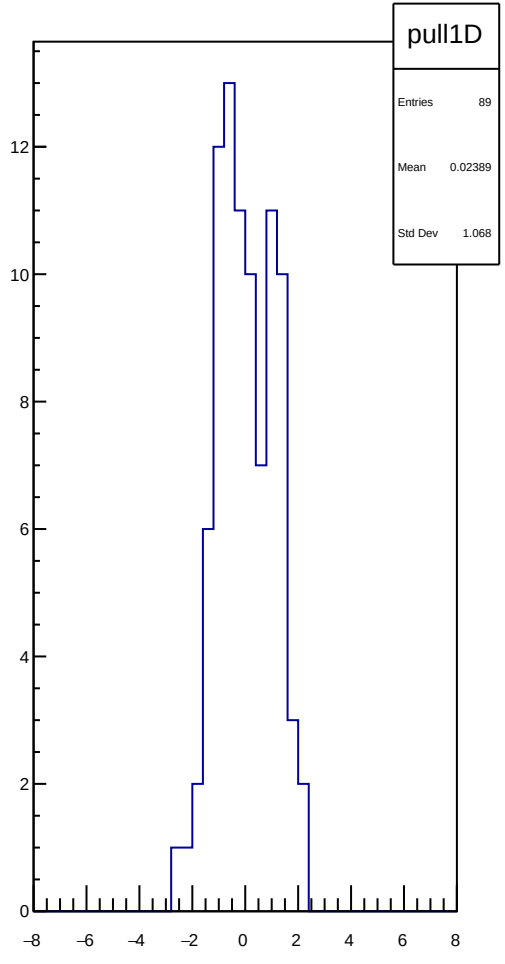

reg_asym_atr1l2_dd_rms vs run
χ² / ndf 190.5 / 88
p0 1781 ± 1.352
1840
1820
1800
1780
1760
1740
1720

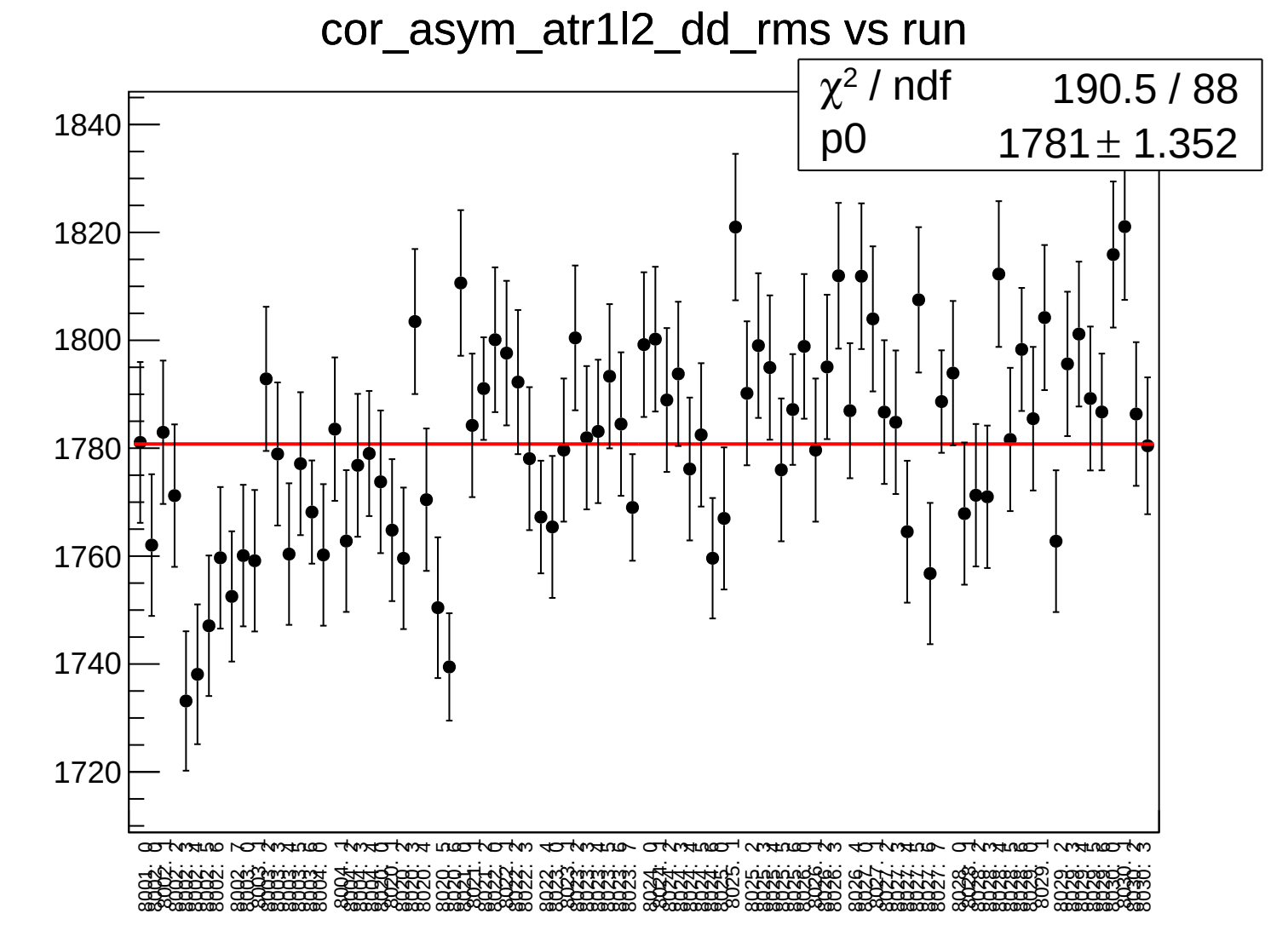

asym_atr1l2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 96.78 / 88
p0 −519.7 ± 4133
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean 155.8
Std Dev 0
2
1
0
−1
−2

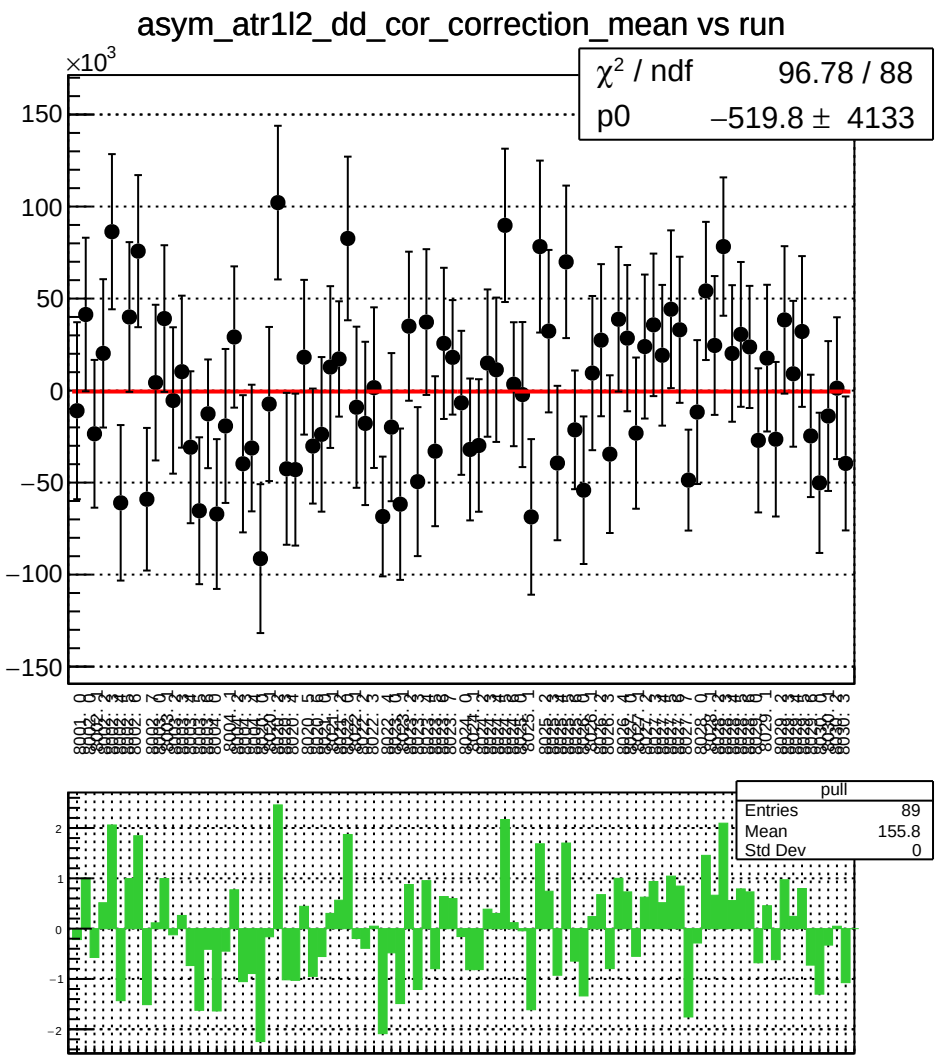

pull1D
Entries 89
Mean 0.02395
Std Dev 1.043
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

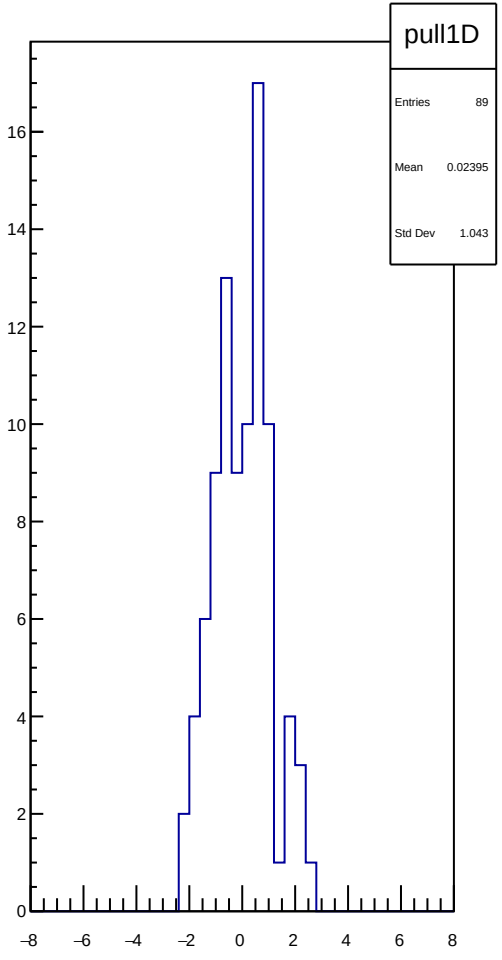

asym_atr1l2_dd_reg_correction_rms vs run
χ² / ndf 3539 / 88
p0 3845 ± 2.923
4400
4200
4000
3800
3600
3400

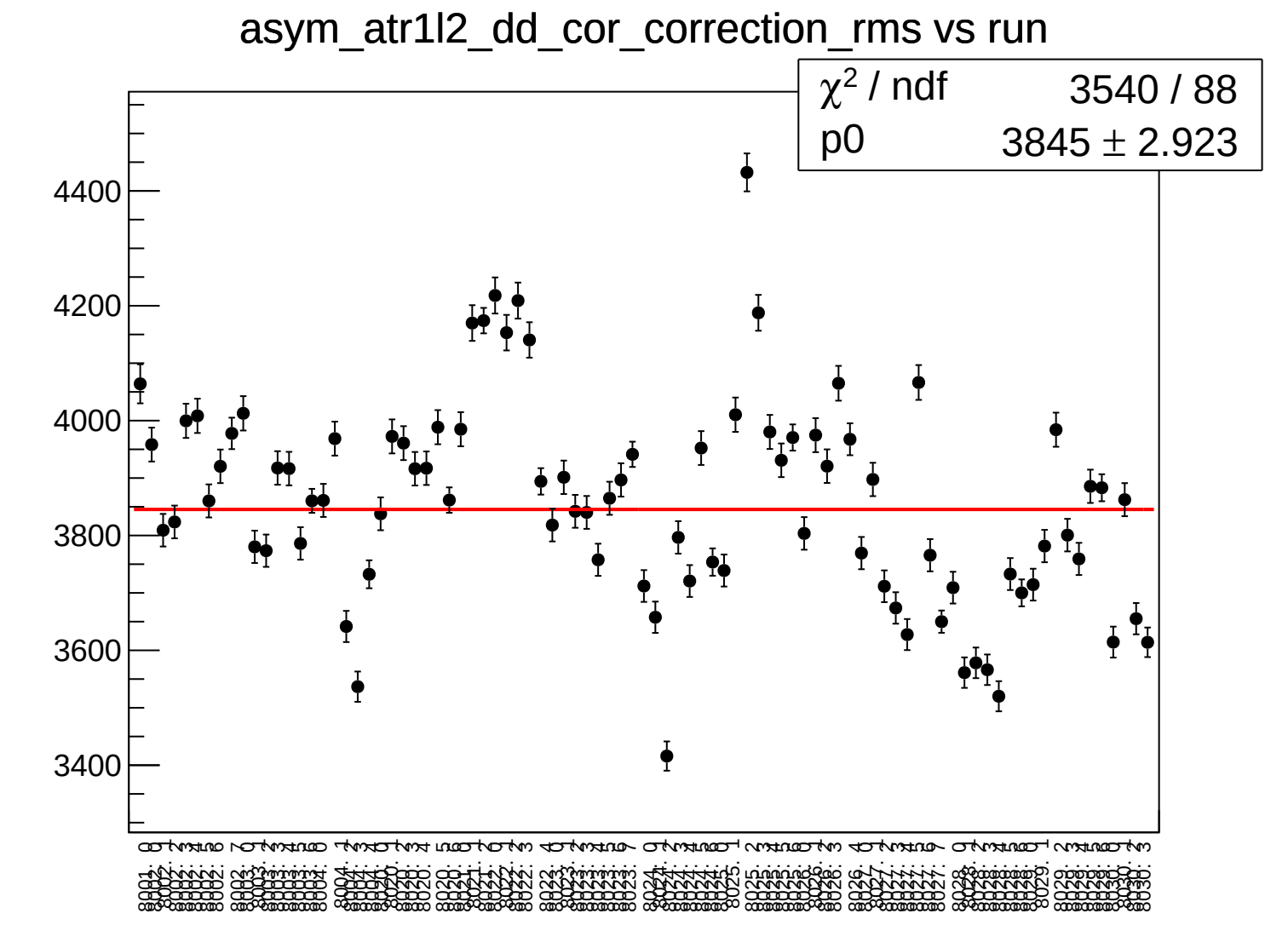

cor_asym_atr1l2_dd_mean vs run
χ² / ndf 101.6 / 88
p0 −1516 ± 1912
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −45.49
Std Dev 48.88
2
1
0
−1
−2

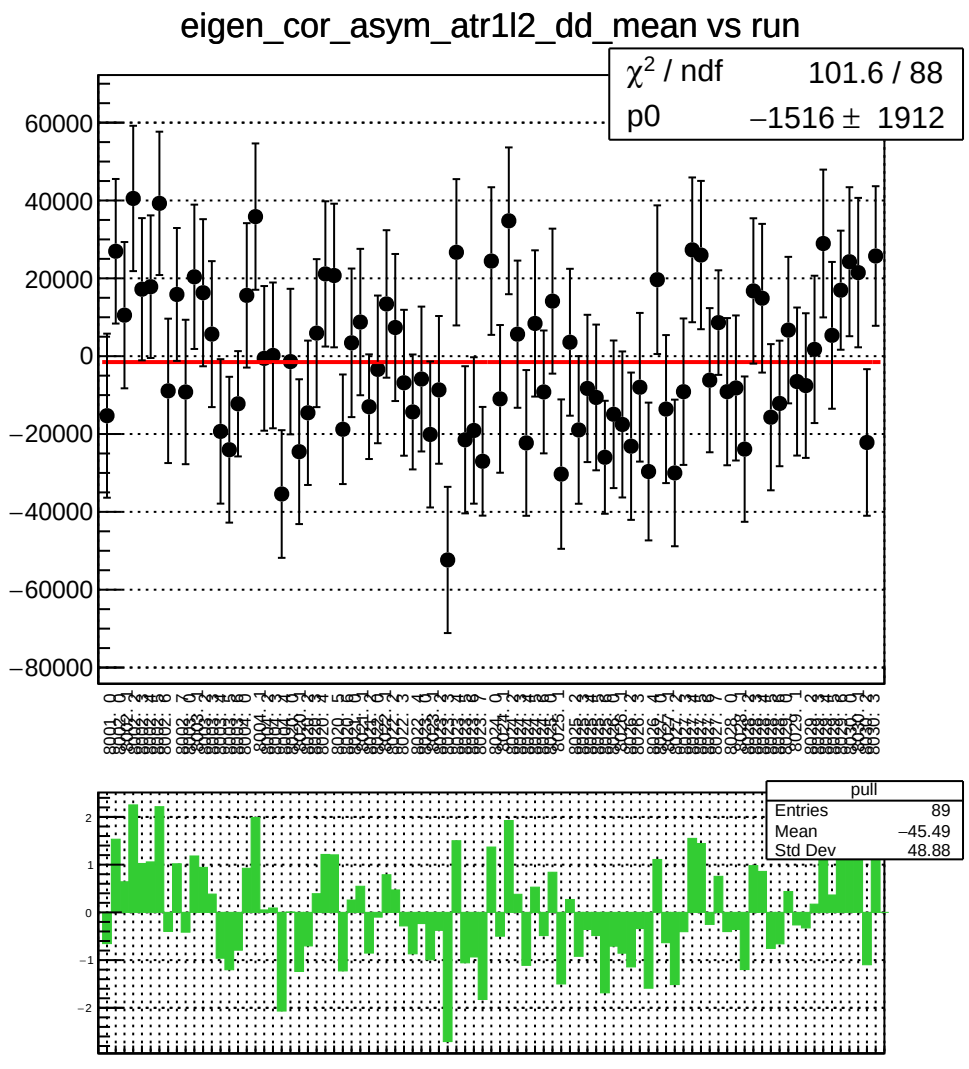

pull1D
Entries 89
Mean 0.02389
Std Dev 1.068
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

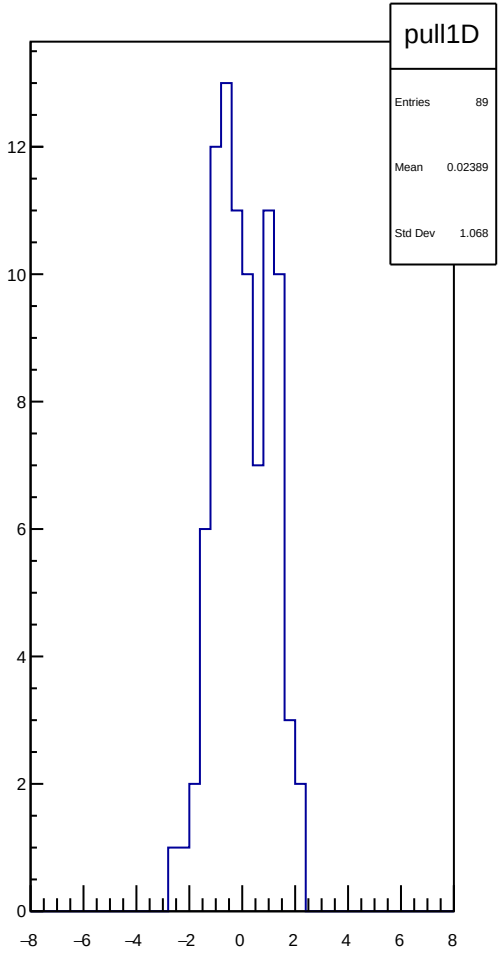

cor_asym_atr1l2_dd_rms vs run
χ² / ndf 190.5 / 88
p0 1781 ± 1.352
1840
1820
1800
1780
1760
1740
1720

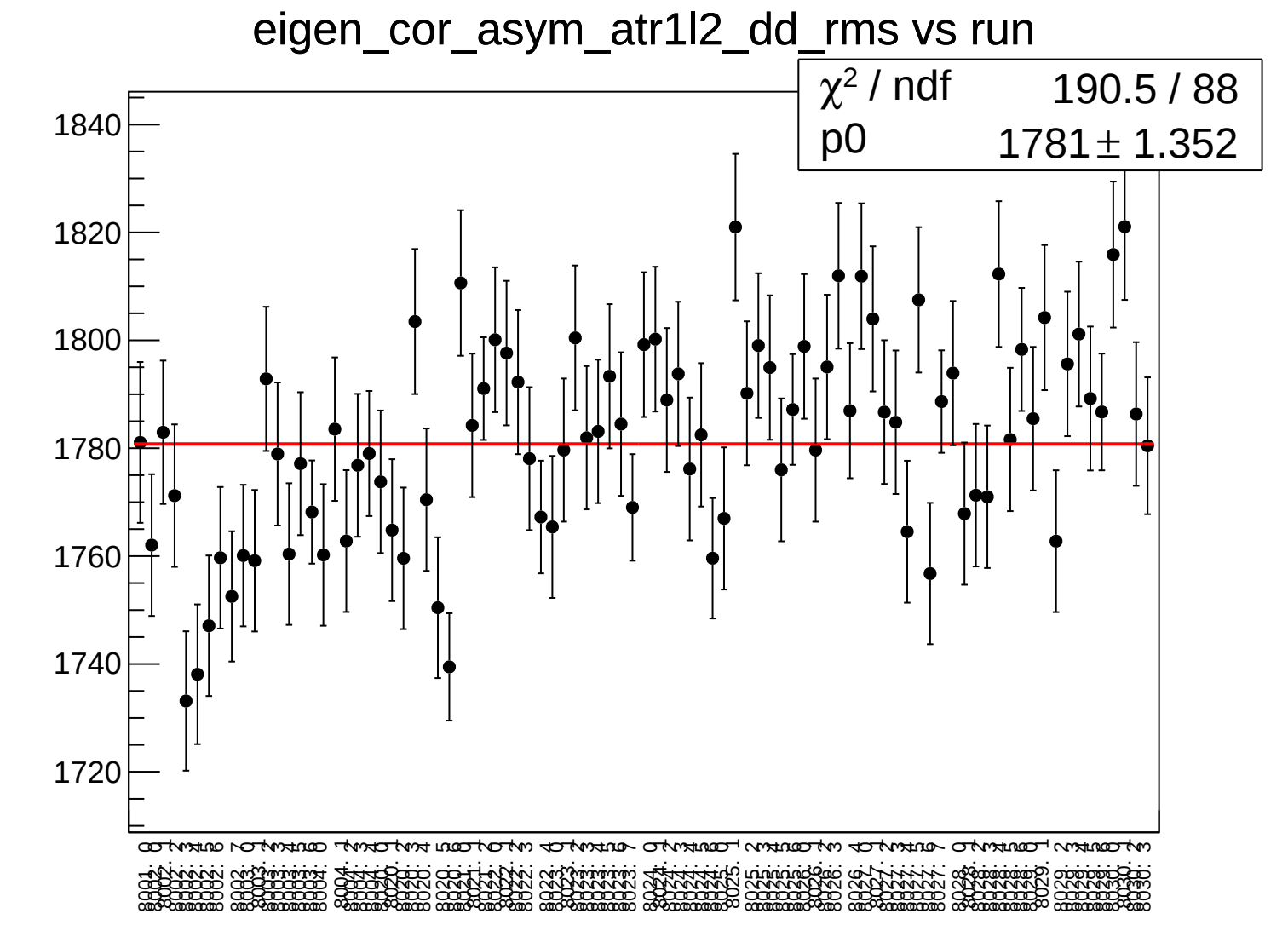

asym_atr1l2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 96.78 / 88
p0 −519.8 ± 4133
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean 155.8
Std Dev 0
2
1
0
−1
−2

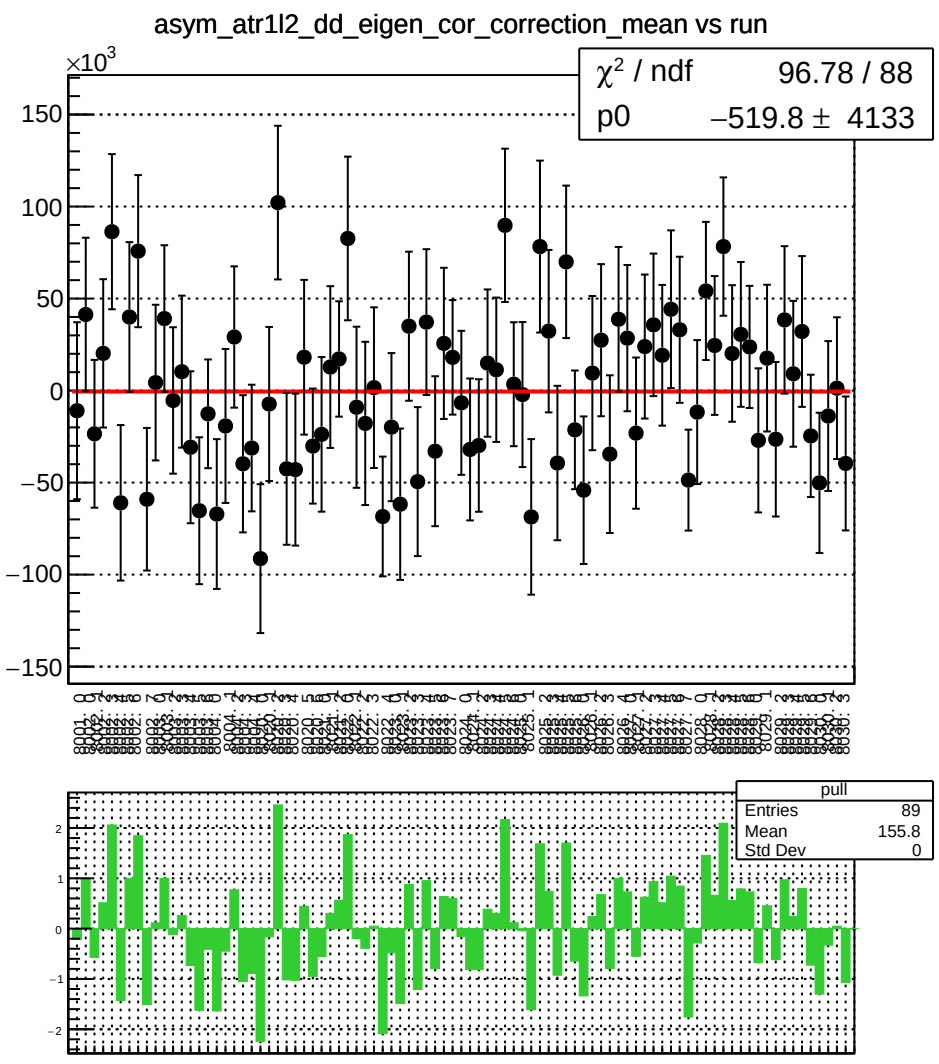

pull1D
Entries 89
Mean 0.02395
Std Dev 1.043
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

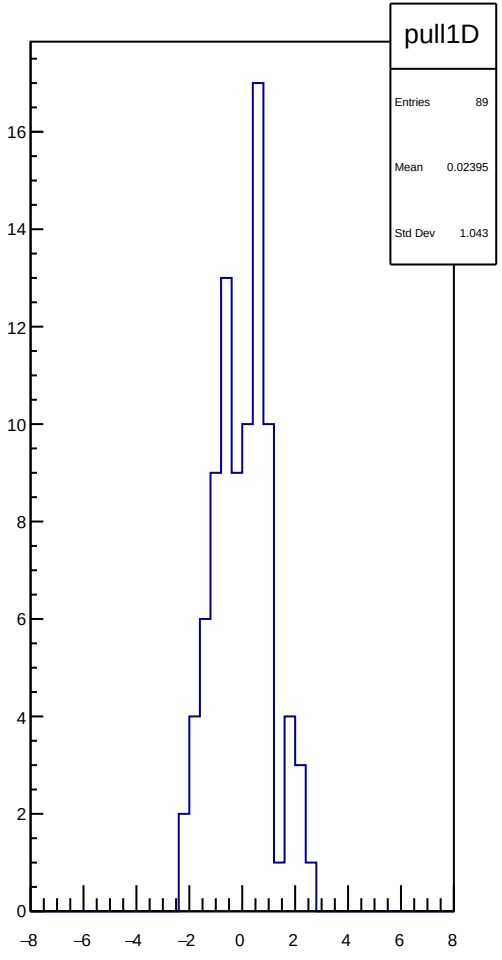

asym_atr1l2_dd_cor_correction_rms vs run
χ² / ndf 3540 / 88
p0 3845 ± 2.923
4400
4200
4000
3800
3600
3400

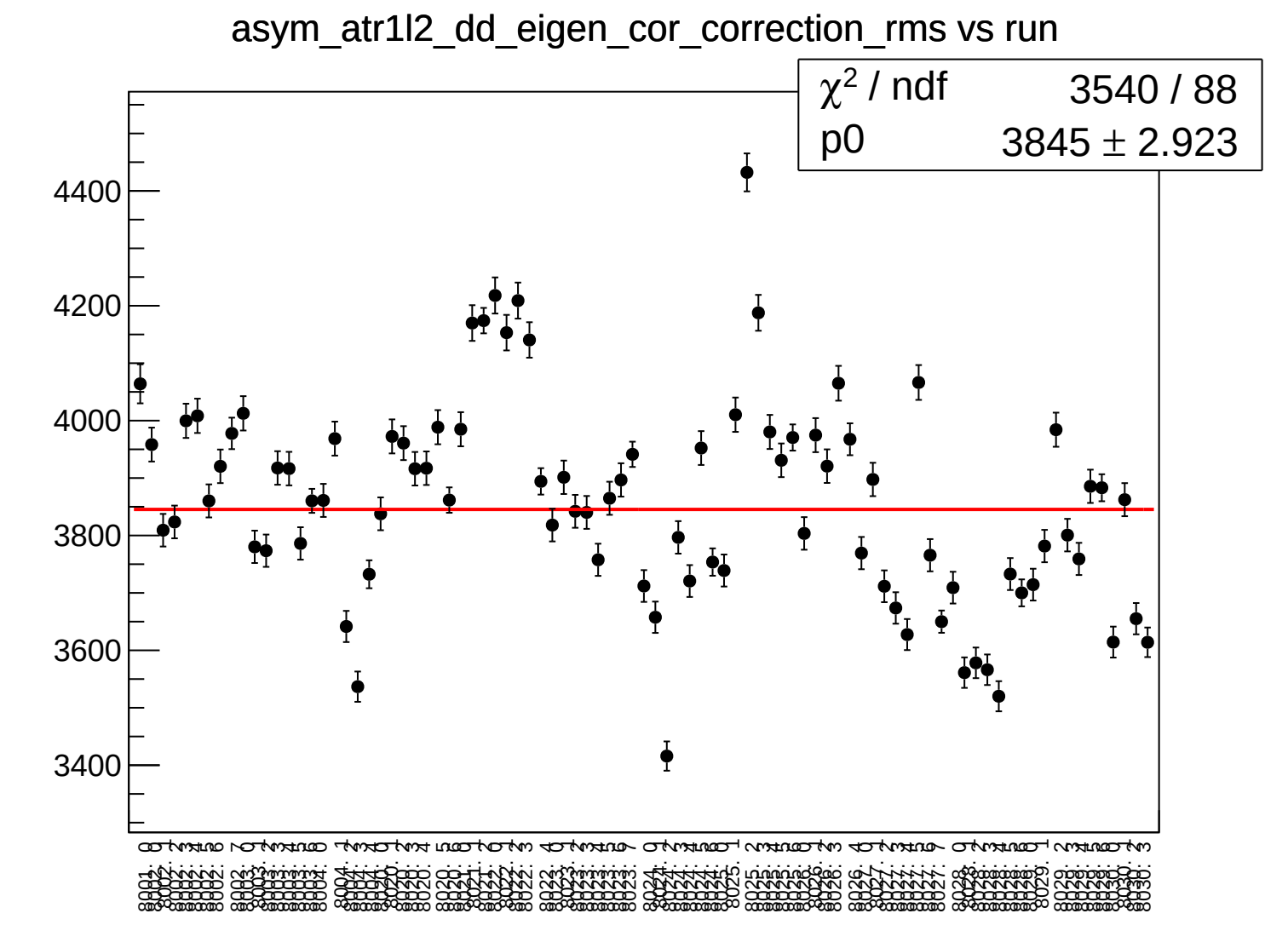

eigen_cor_asym_atr1l2_dd_mean vs run
χ² / ndf 101.6 / 88
p0 −1516 ± 1912
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −45.49
Std Dev 48.88
2
1
0
−1

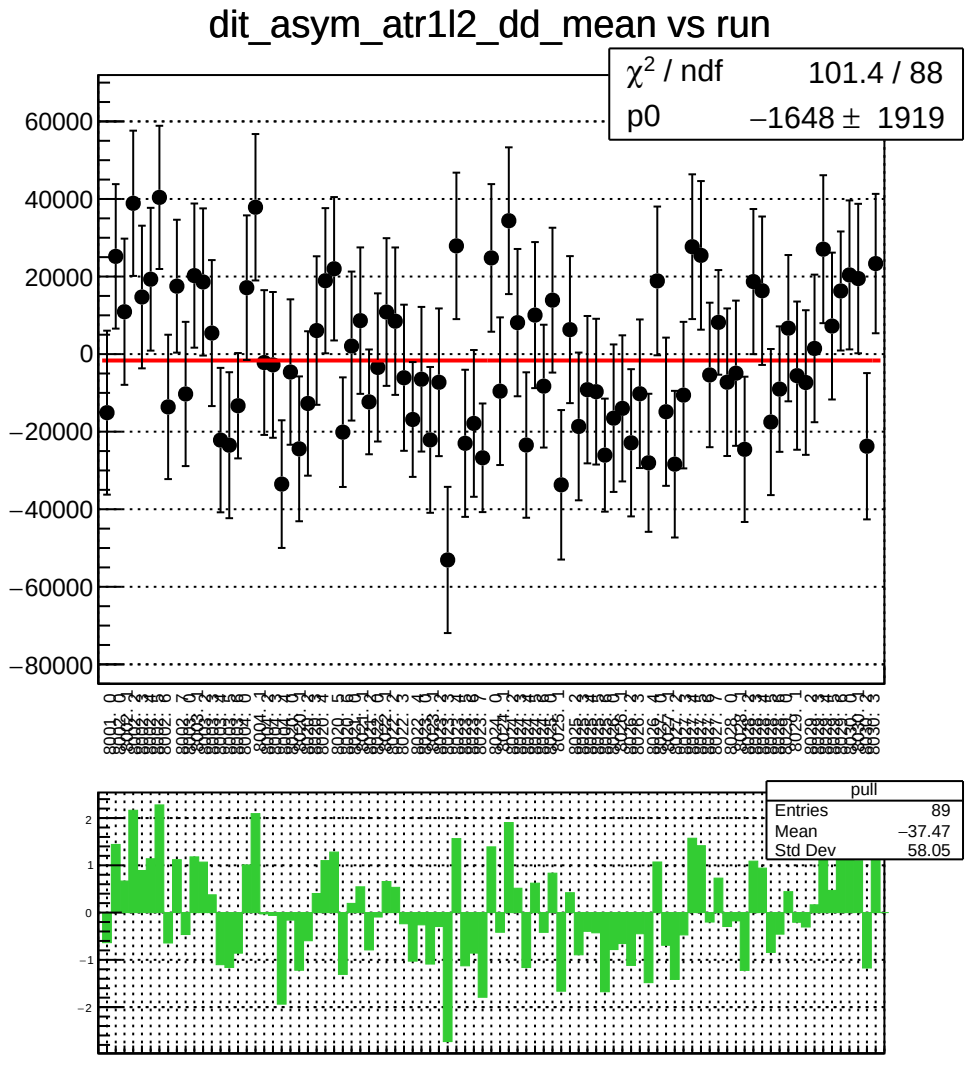

pull1D
Entries 89
Mean 0.02389
Std Dev 1.068
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

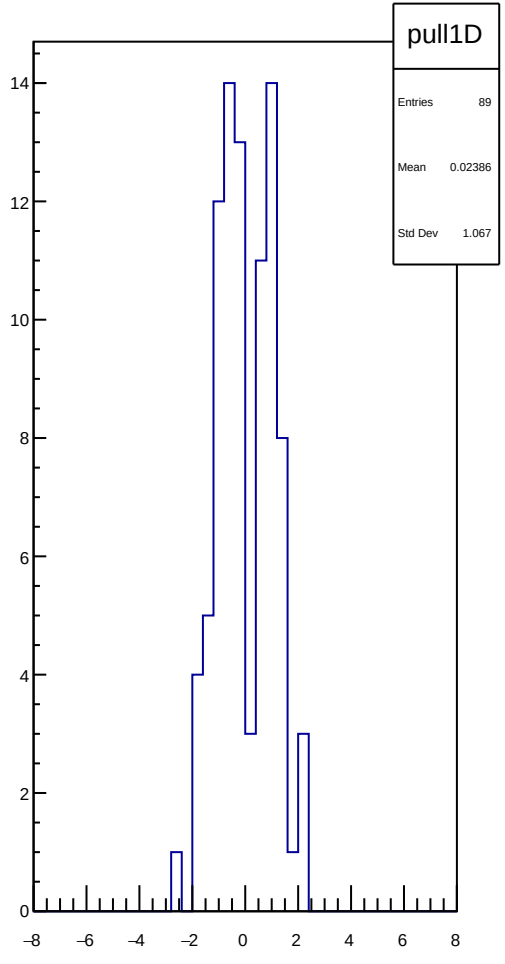

eigen_cor_asym_atr1l2_dd_rms vs run
χ² / ndf 190.5 / 88
p0 1781 ± 1.352
1840
1820
1800
1780
1760
1740
1720

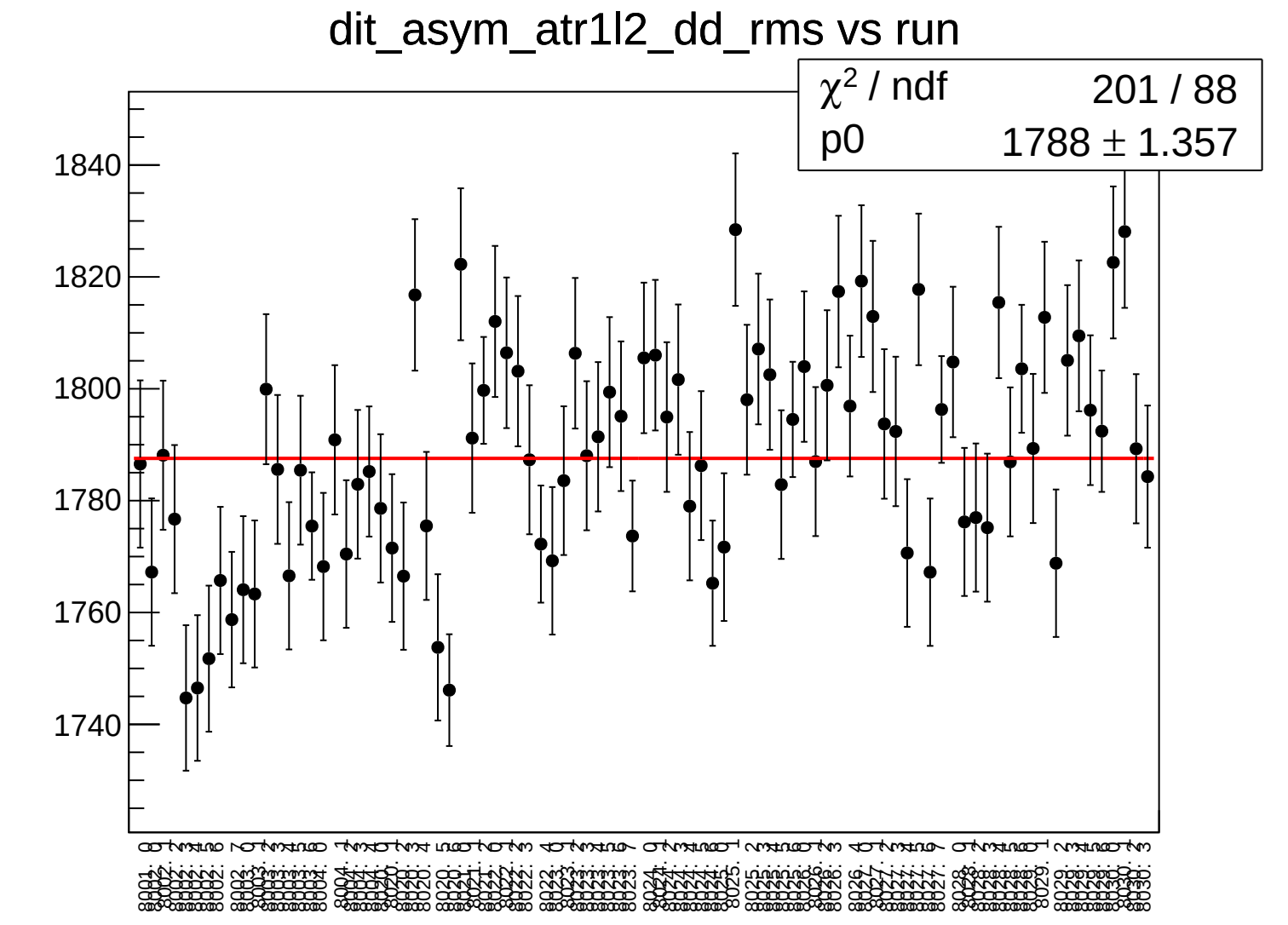

asym_atr1l2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 96.78 / 88
p0 −519.8 ± 4133
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean 155.8
Std Dev 0
2
1
0
−1
−2

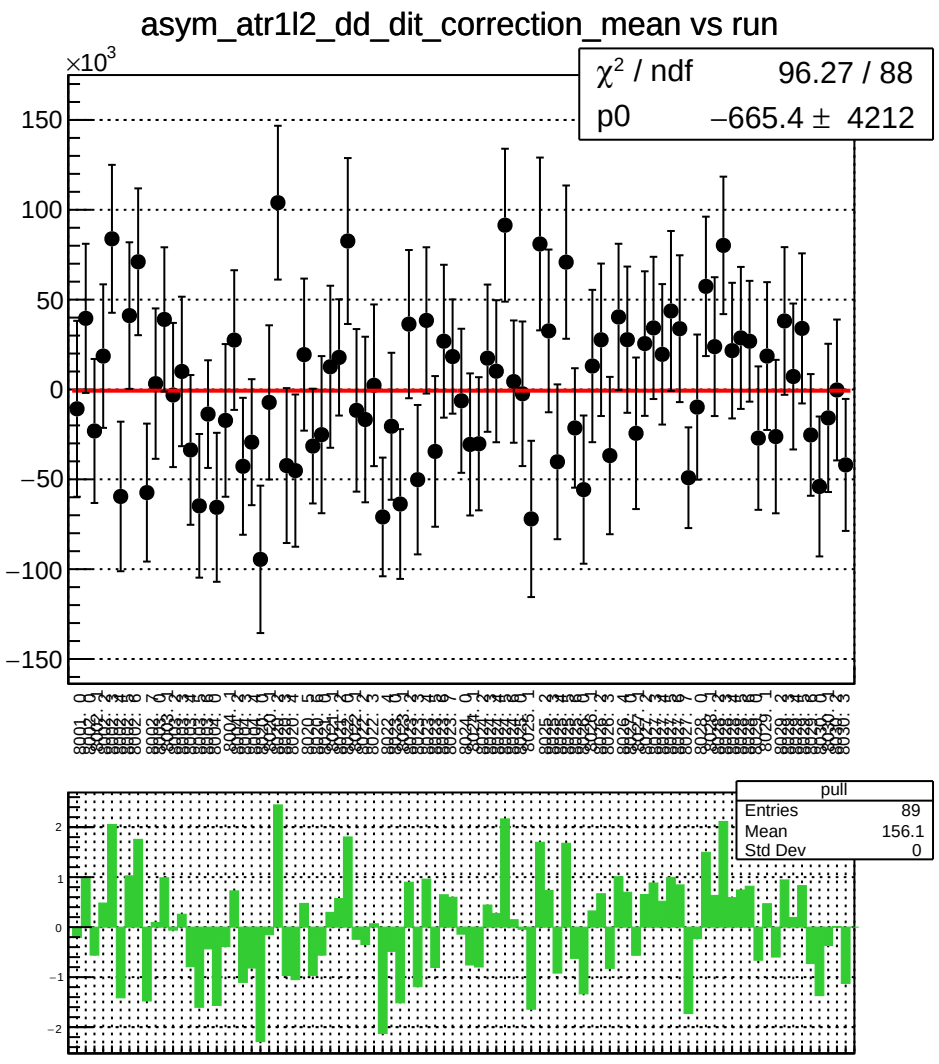

pull1D
Entries 89
Mean 0.02395
Std Dev 1.043
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

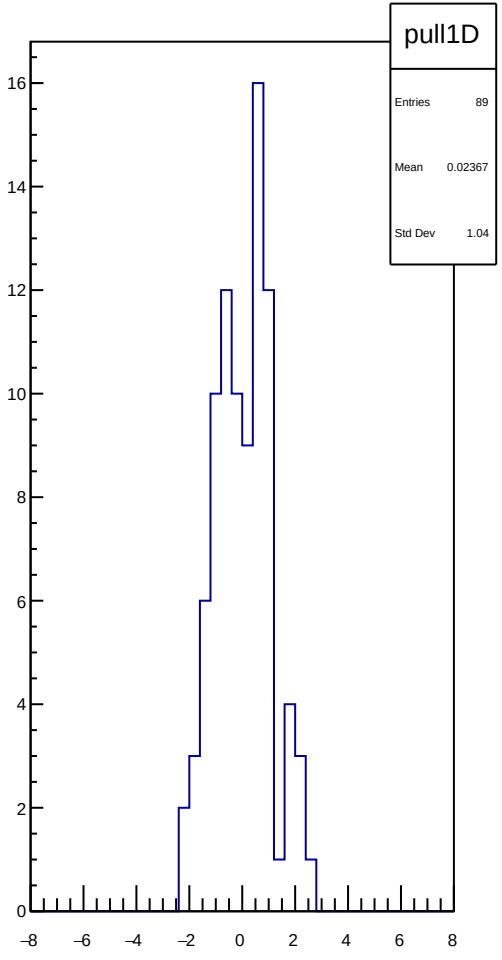

asym_atr1l2_dd_eigen_cor_correction_rms vs run
χ² / ndf 3540 / 88
p0 3845 ± 2.923
4400
4200
4000
3800
3600
3400

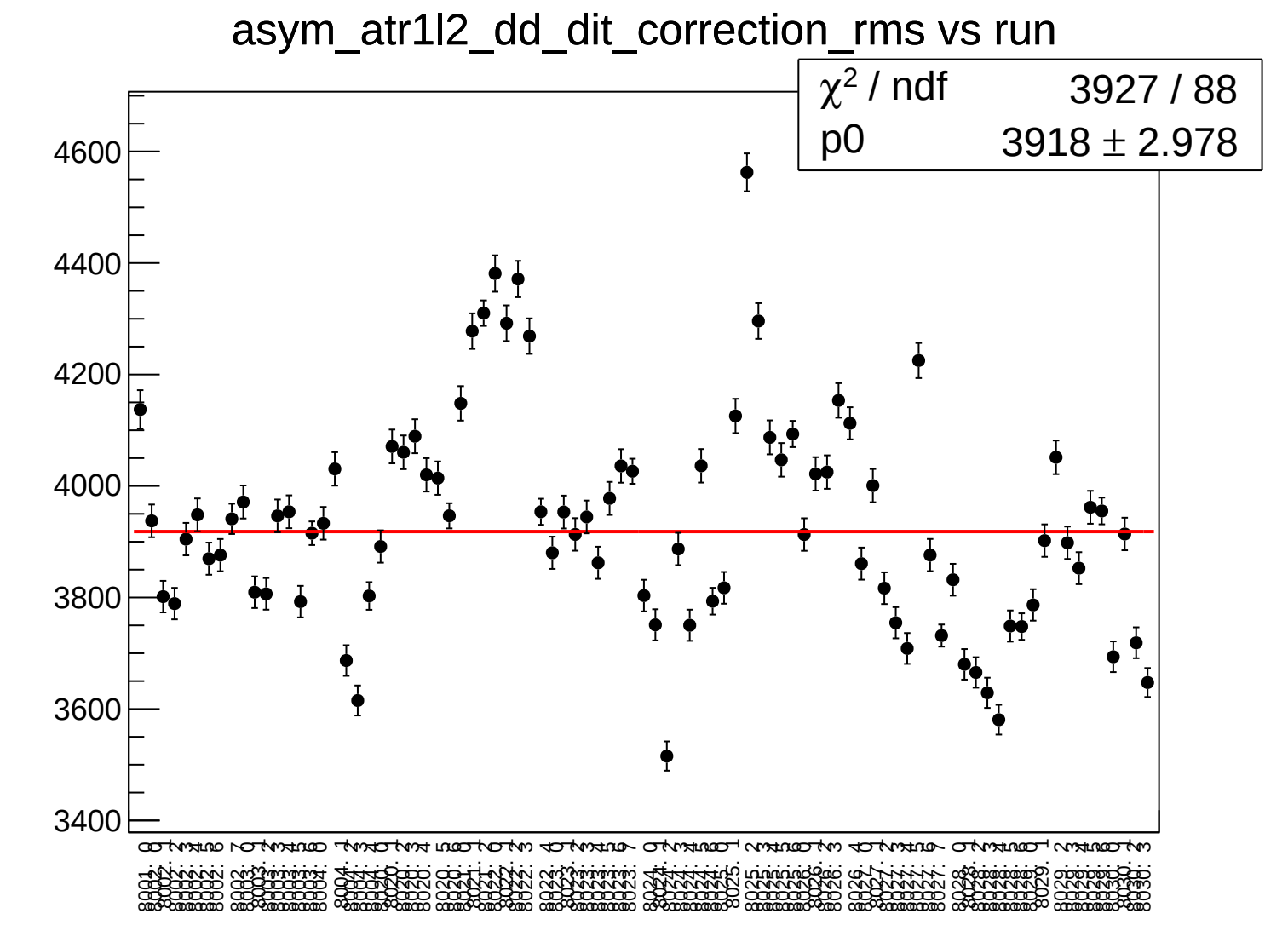

dit_asym_atr1l2_dd_mean vs run
χ² / ndf 101.4 / 88
p0 −1648 ± 1919
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −37.47
Std Dev 58.05
2
1
0
−1
−2

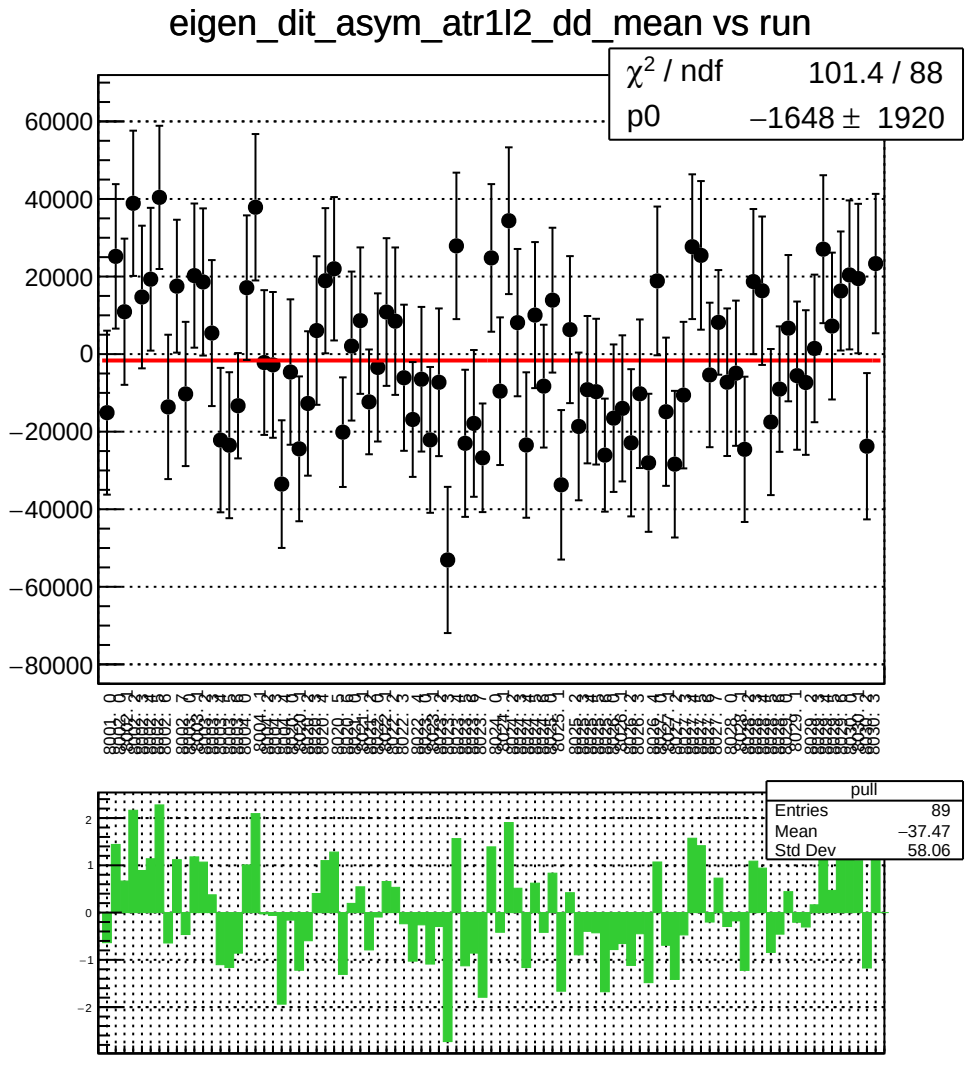

pull1D
Entries 89
Mean 0.02386
Std Dev 1.067
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

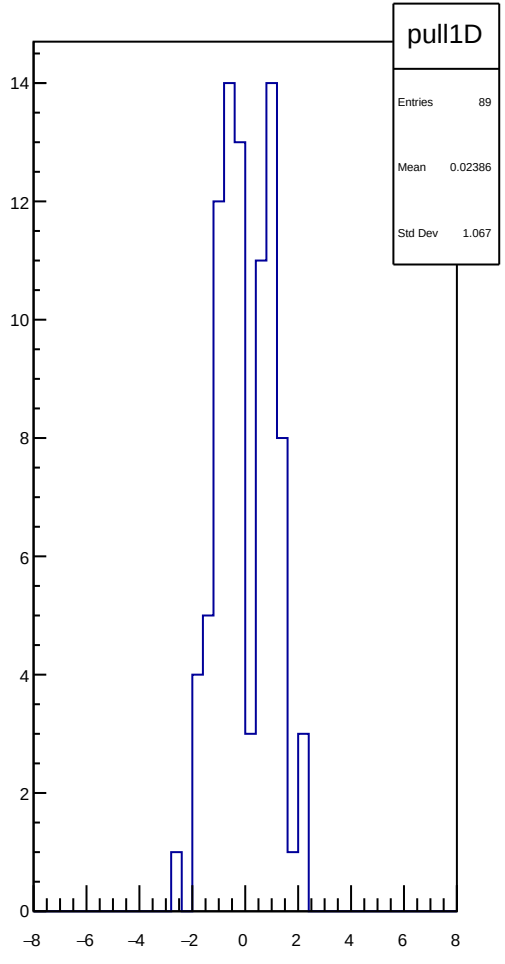

dit_asym_atr1l2_dd_rms vs run
χ² / ndf 201 / 88
p0 1788 ± 1.357
1840
1820
1800
1780
1760
1740

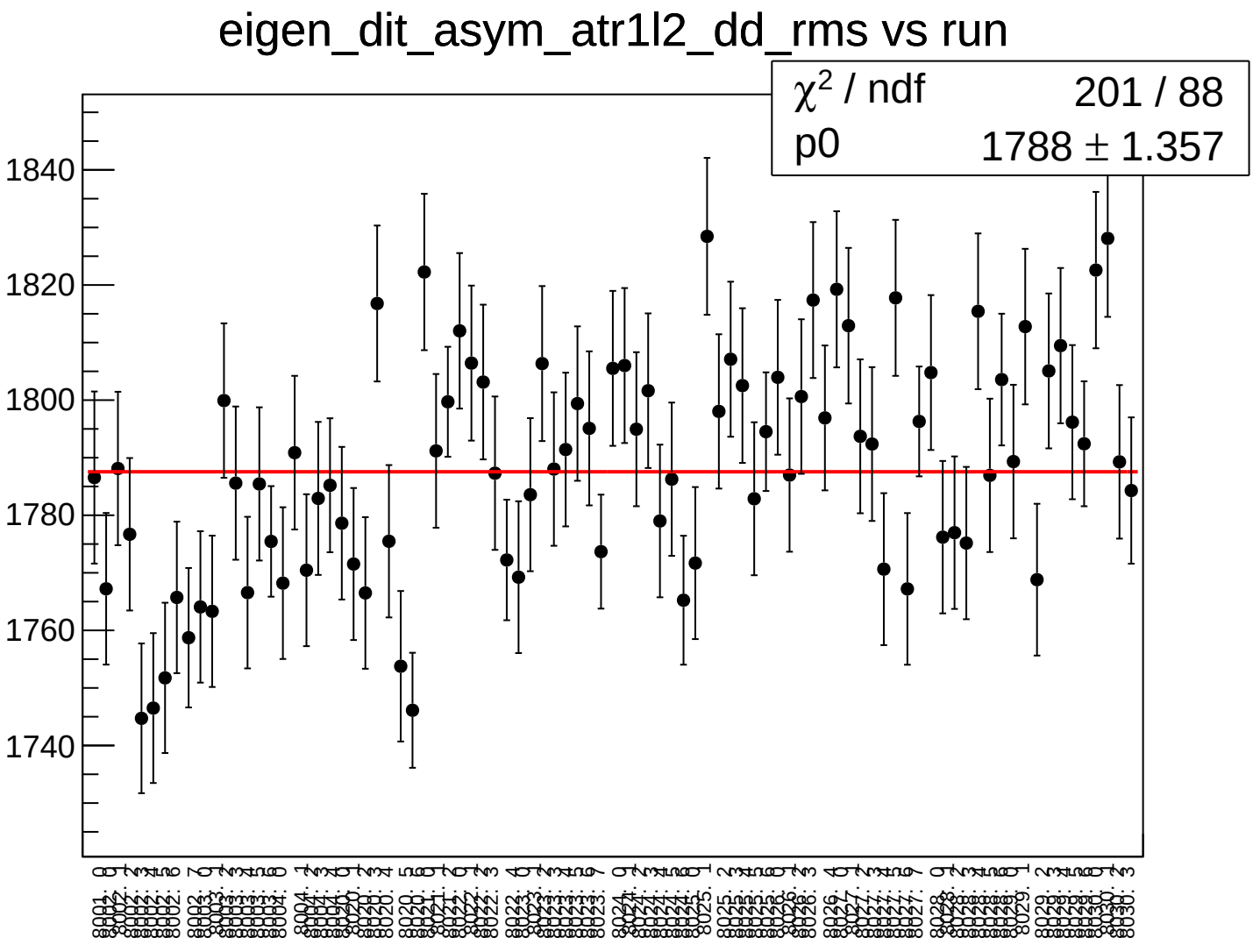

asym_atr1l2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 96.27 / 88
p0 −665.4 ± 4212
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean 156.1
Std Dev 0
2
1
0
−1
−2

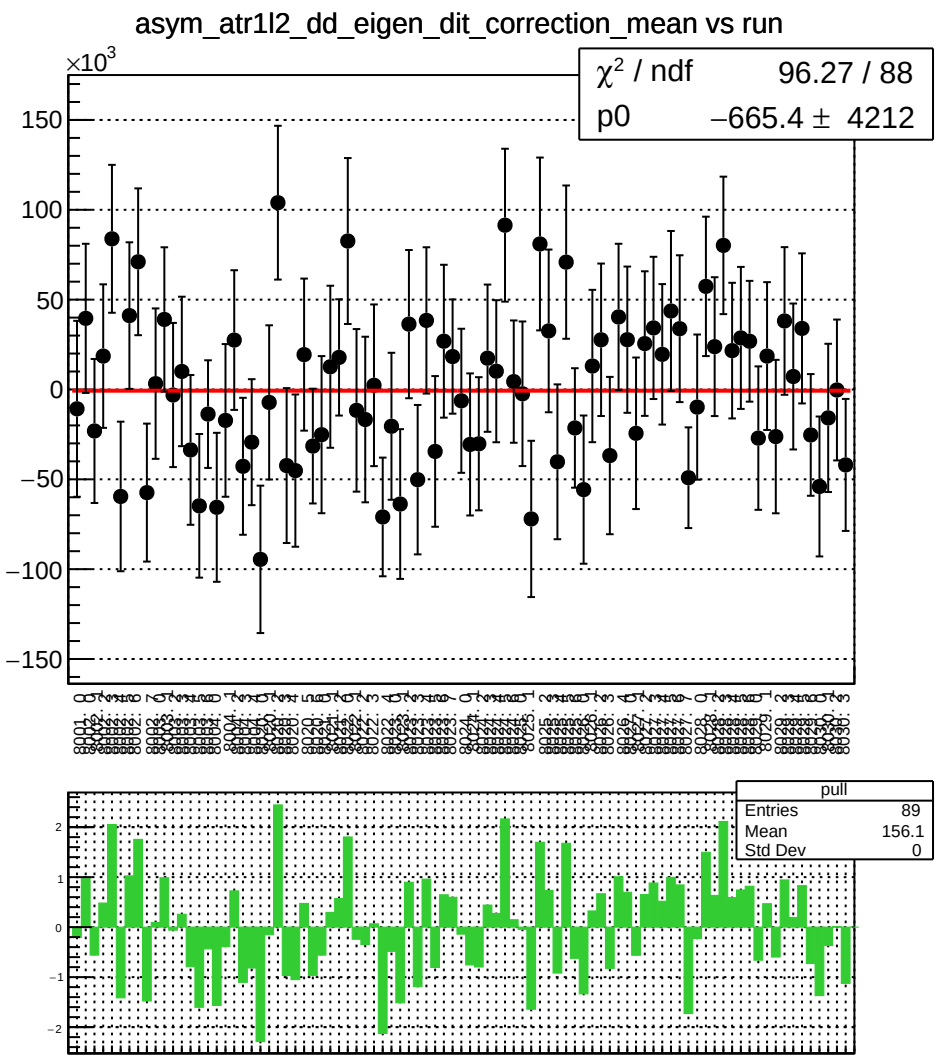

pull1D
Entries 89
Mean 0.02367
Std Dev 1.04
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

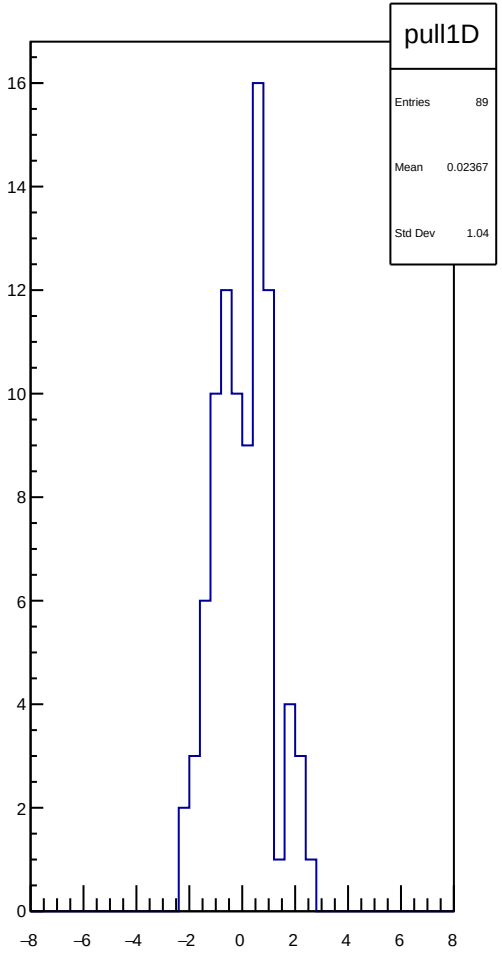

asym_atr1l2_dd_dit_correction_rms vs run
χ² / ndf 3927 / 88
p0 3918 ± 2.978
4600
4400
4200
4000
3800
3600
3400

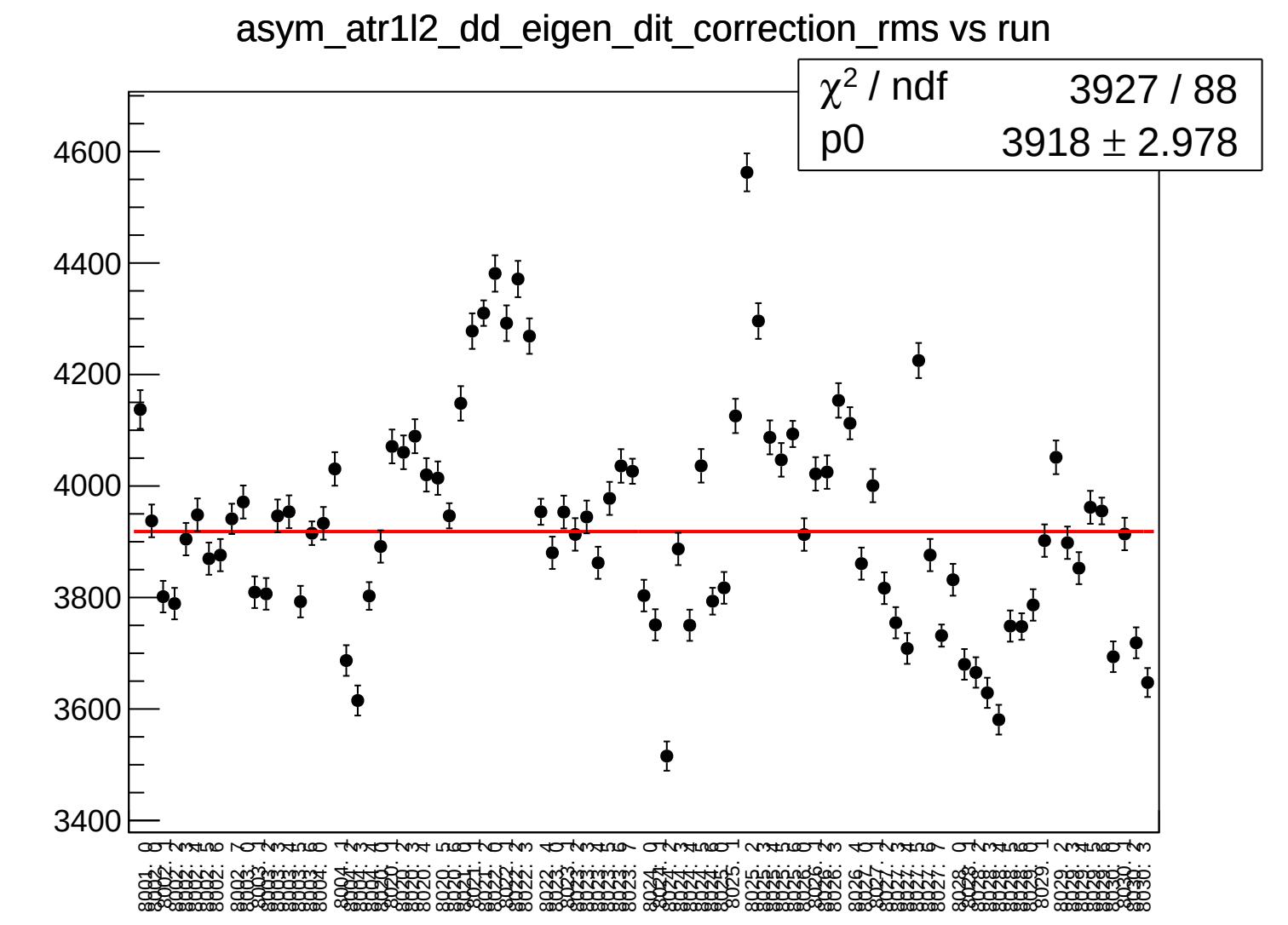

eigen_dit_asym_atr1l2_dd_mean vs run
χ² / ndf 101.4 / 88
p0 −1648 ± 1920
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −37.47
Std Dev 58.06
2
1
0
−1
−2

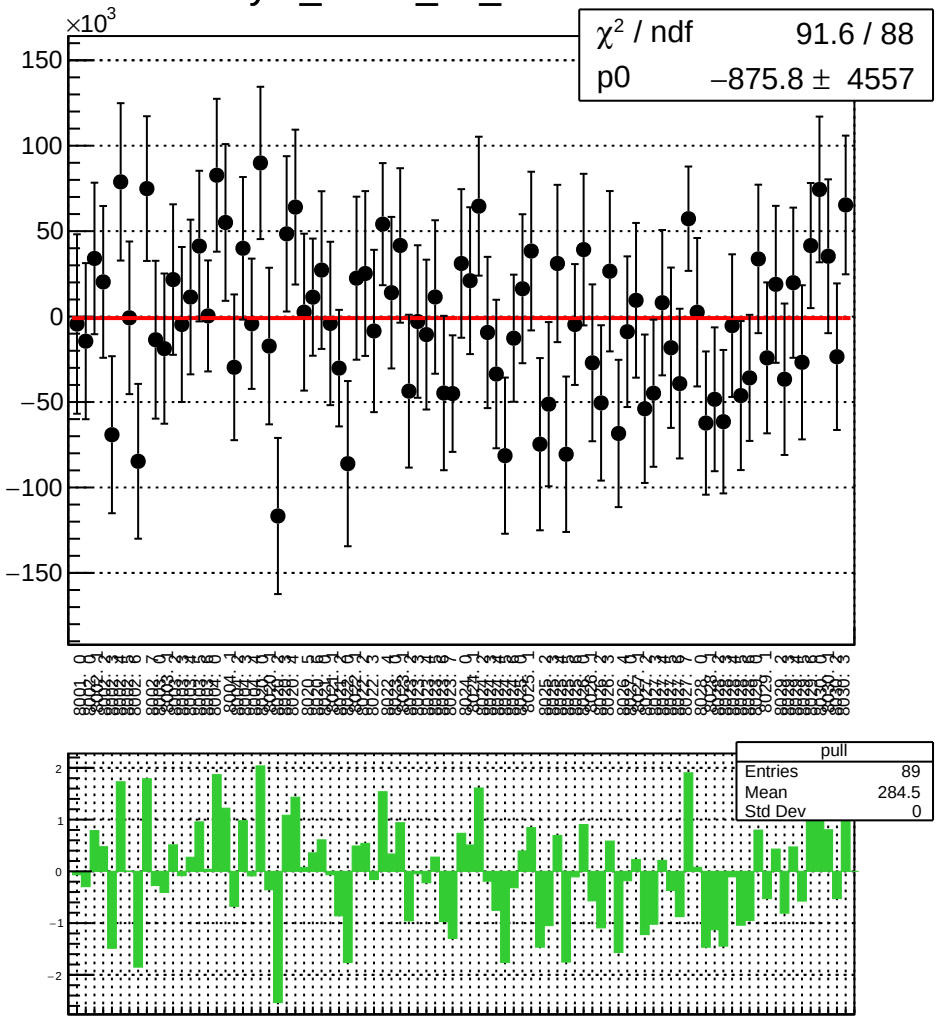

pull1D
Entries 89
Mean 0.02386
Std Dev 1.067
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

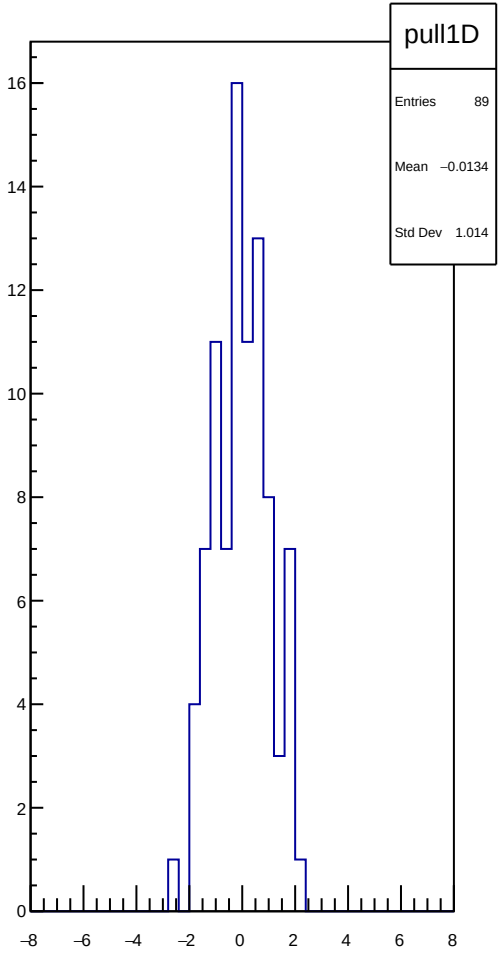

eigen_dit_asym_atr1l2_dd_rms vs run
χ^2 / ndf 201 / 88
p0 1788 ± 1.357
1840
1820
1800
1780
1760
1740

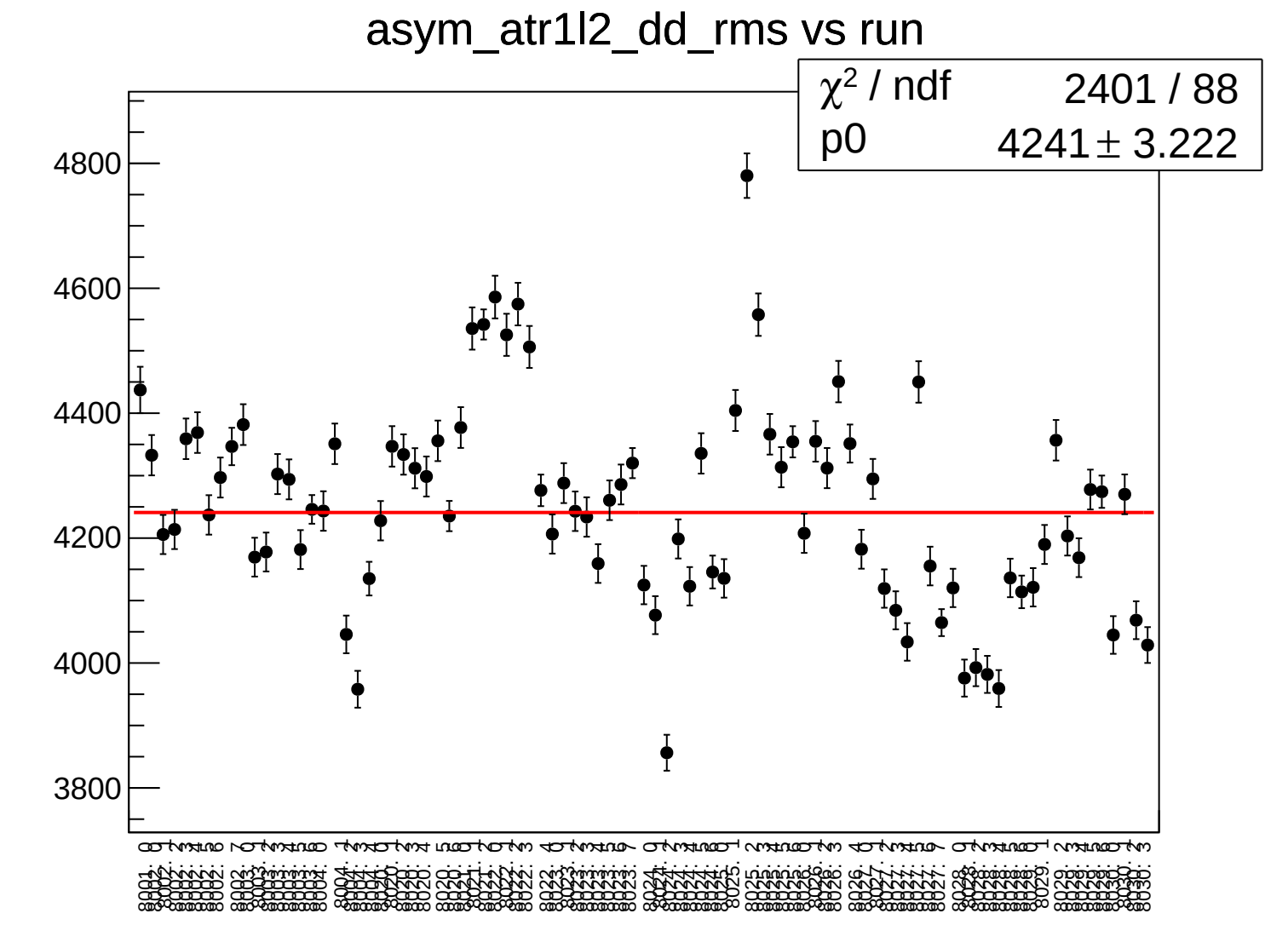

asym_atr1l2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 96.27 / 88
p0 −665.4 ± 4212
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean 156.1
Std Dev 0
2
1
0
−1
−2

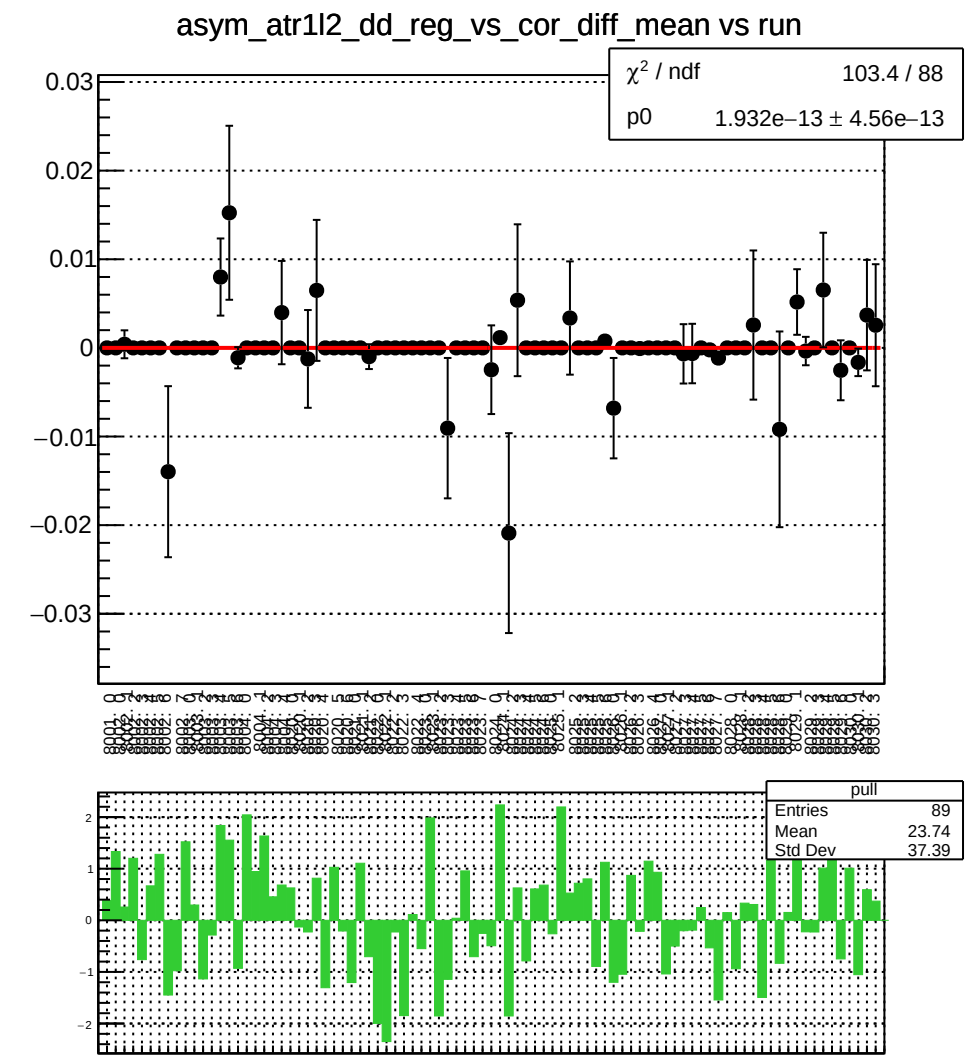

pull1D
Entries 89
Mean 0.02367
Std Dev 1.04
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

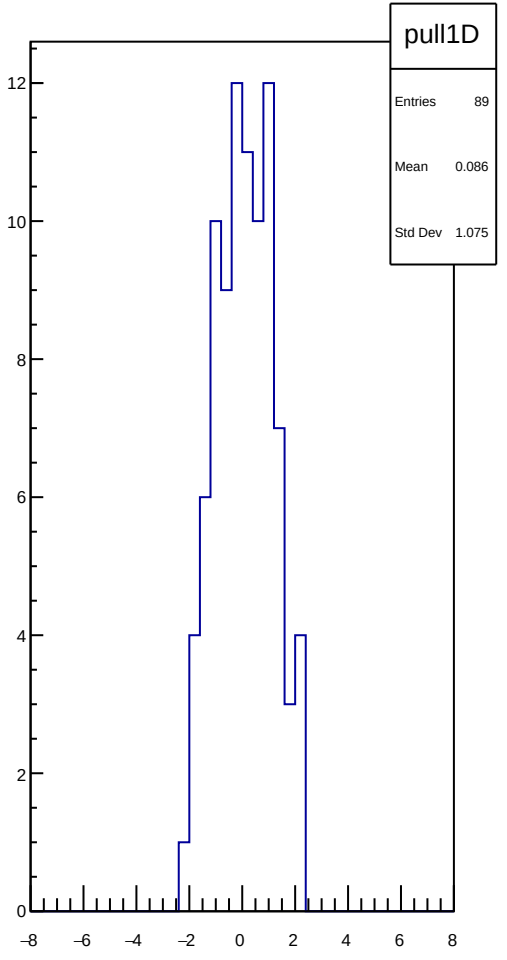

asym_atr1l2_dd_eigen_dit_correction_rms vs run
χ² / ndf 3927 / 88
p0 3918 ± 2.978
4600
4400
4200
4000
3800
3600
3400

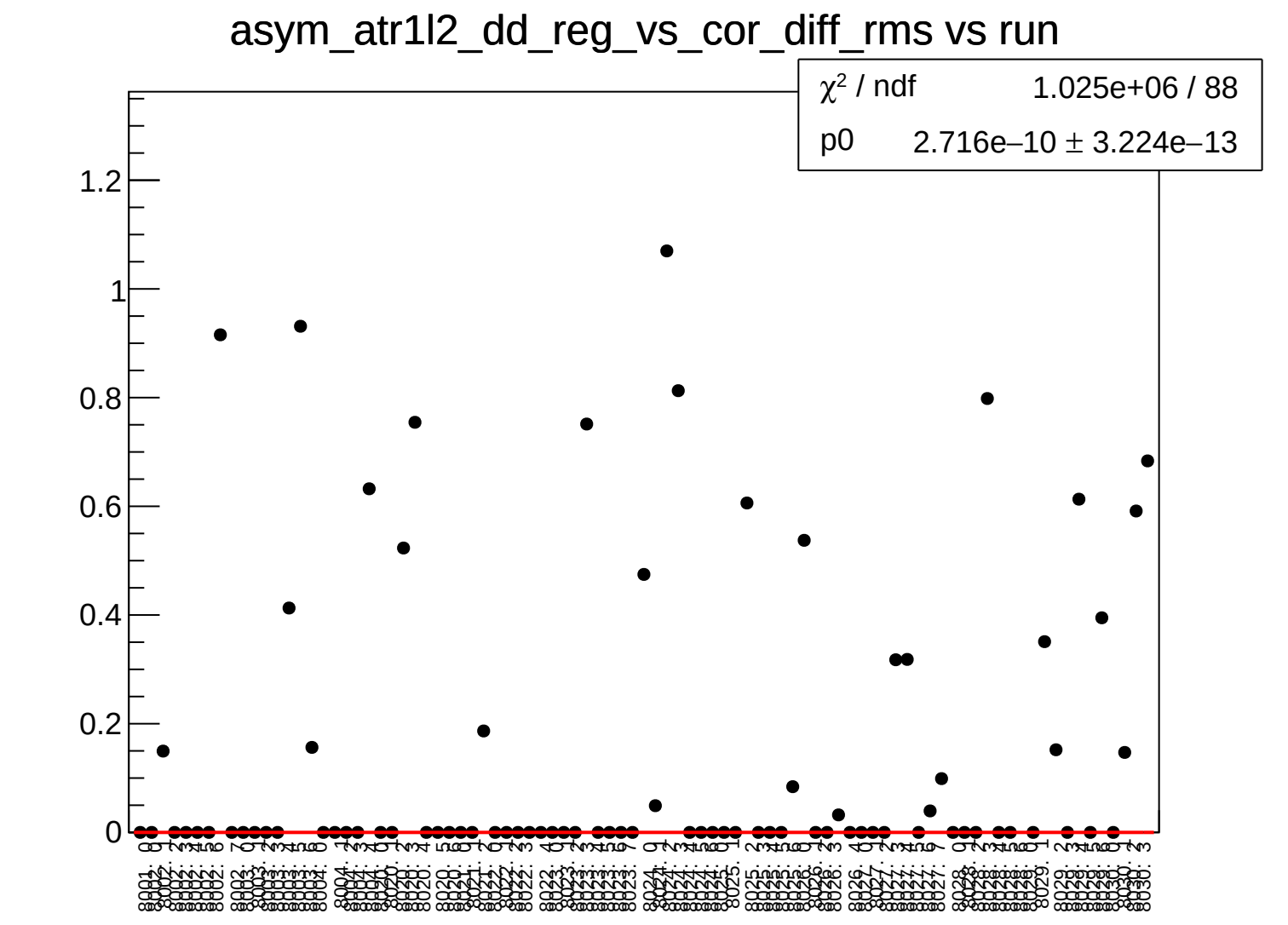

asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 91.6 / 88
p0 −875.8 ± 4557
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean 284.5
Std Dev 0
2
1
0
−1
−2

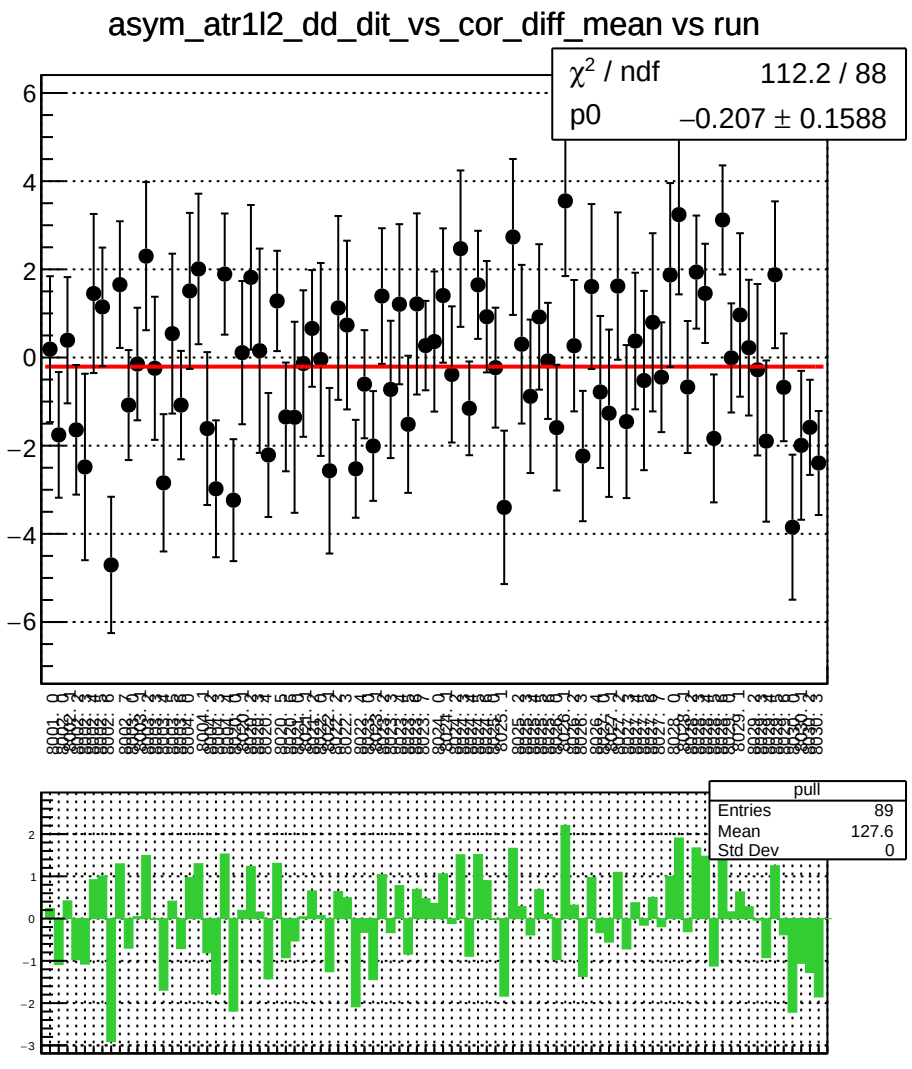

pull1D
Entries 89
Mean −0.0134
Std Dev 1.014
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

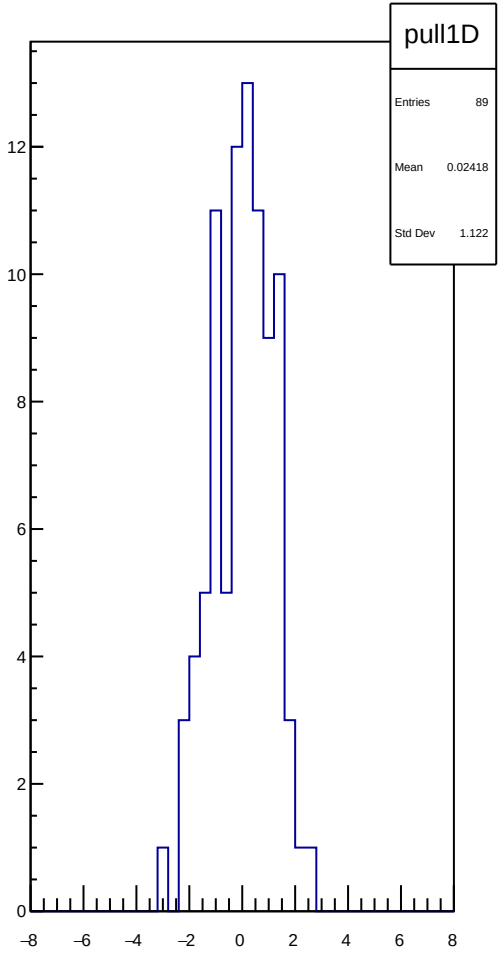

asym_atr1l2_dd_rms vs run
χ² / ndf 2401 / 88
p0 4241 ± 3.222
4800
4600
4400
4200
4000
3800

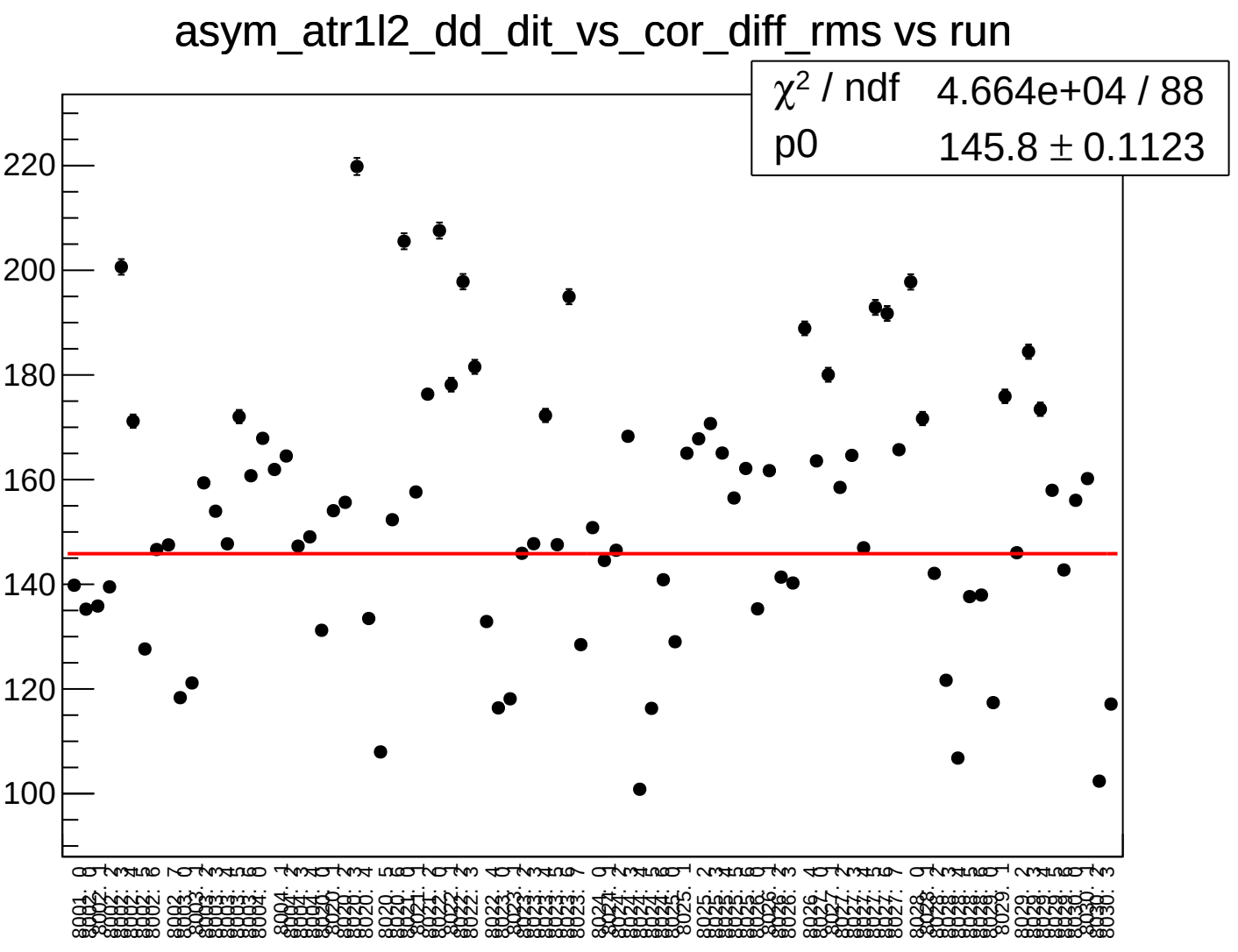

asym_atr1l2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 103.4 / 88
p0 1.932e−13 ± 4.56e−13
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 89
Mean 23.74
Std Dev 37.39
2
1
0
−1
−2

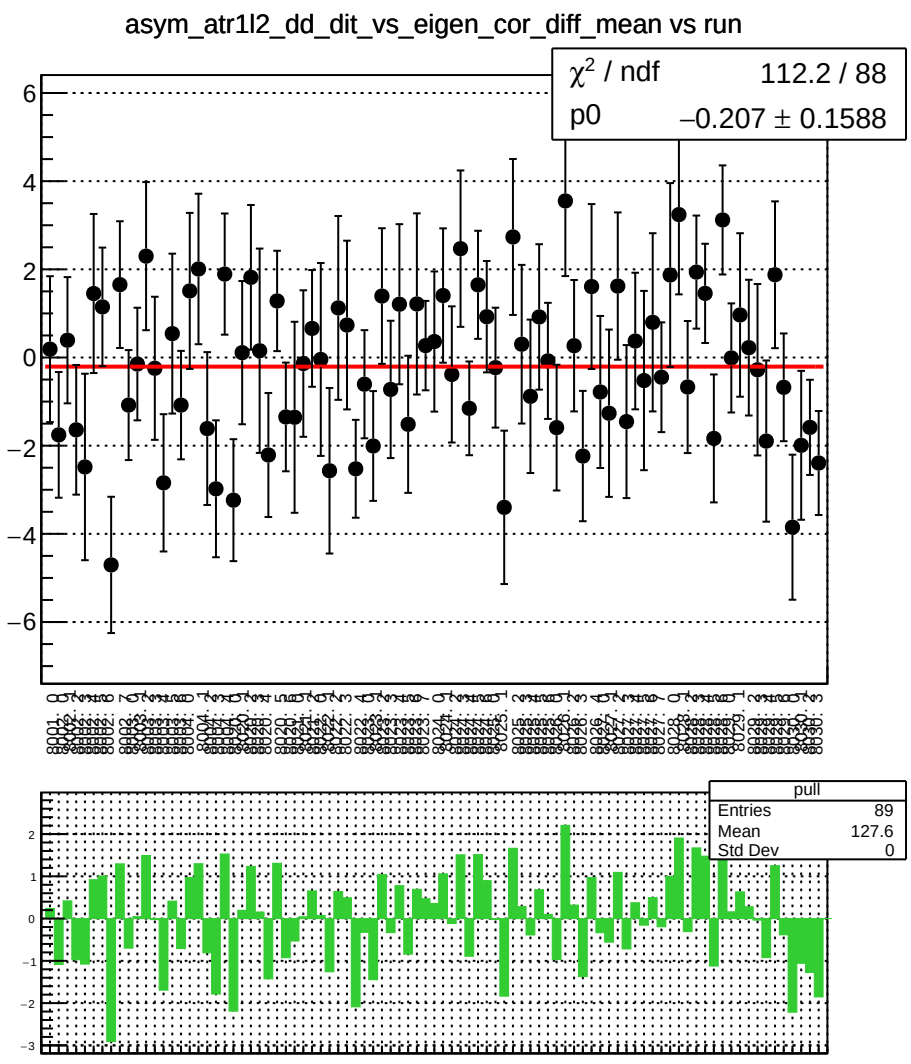

pull1D
Entries 89
Mean 0.086
Std Dev 1.075
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

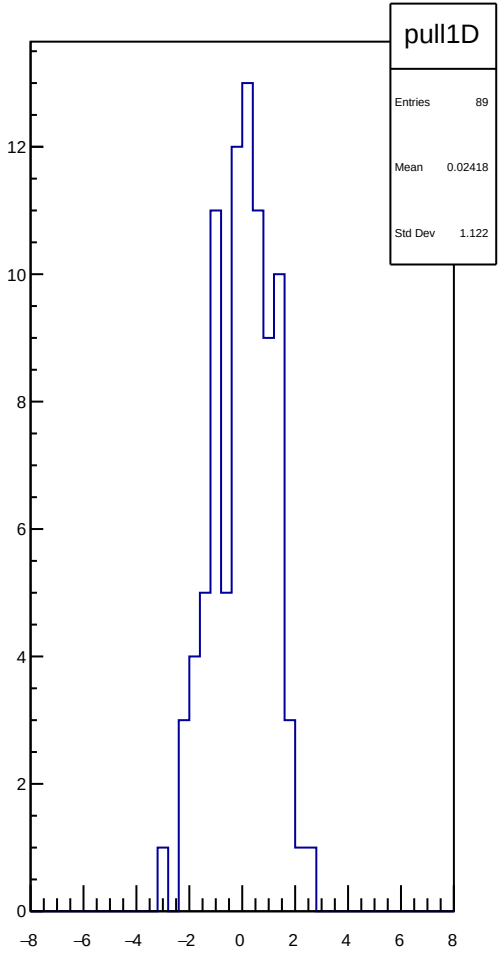

asym_atr1l2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.025e+06 / 88
p0 2.716e−10 ± 3.224e−13
1.2
1
0.8
0.6
0.4
0.2
0

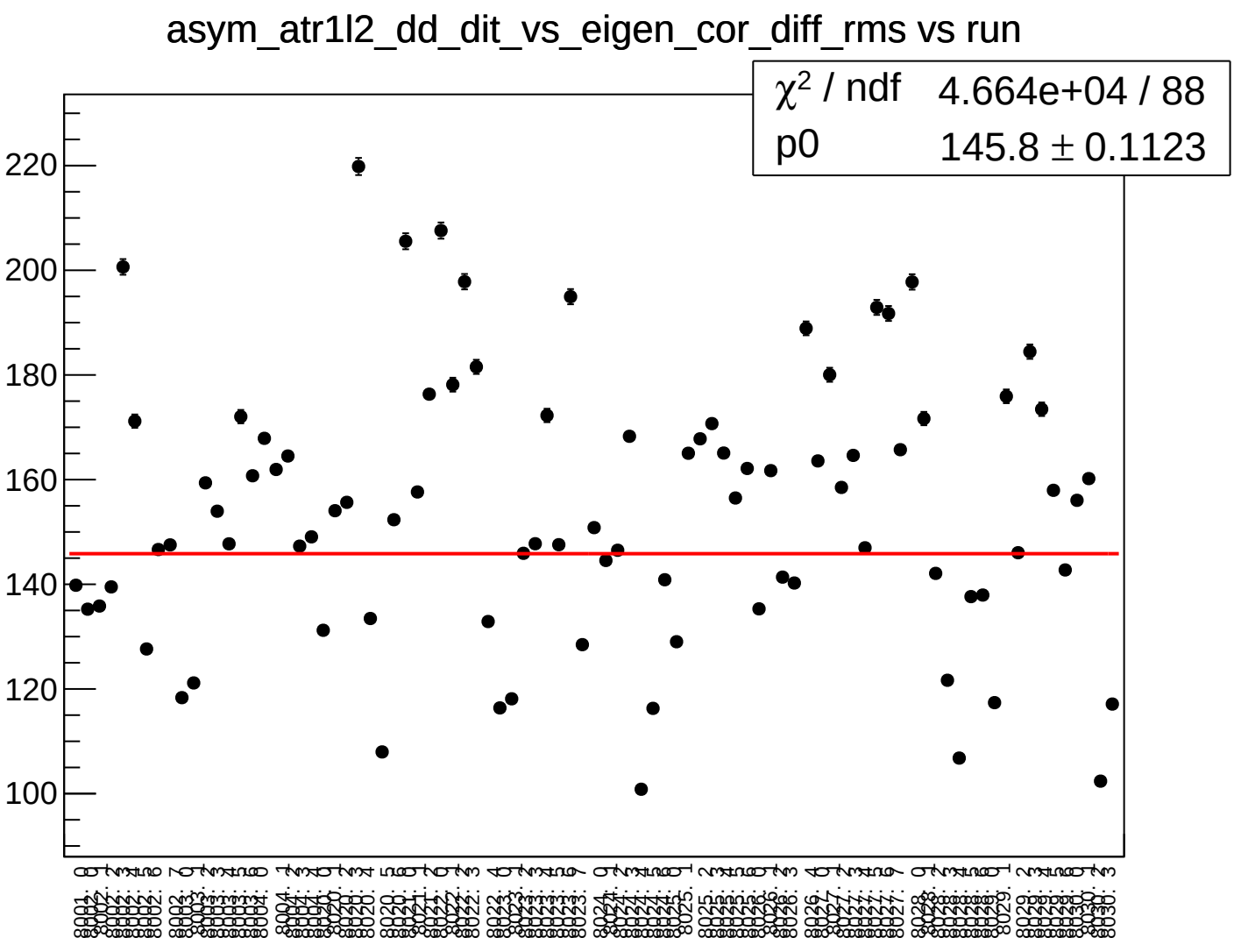

asym_atr1l2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 112.2 / 88
p0 −0.207 ± 0.1588
pull
Entries 89
Mean 127.6
Std Dev 0

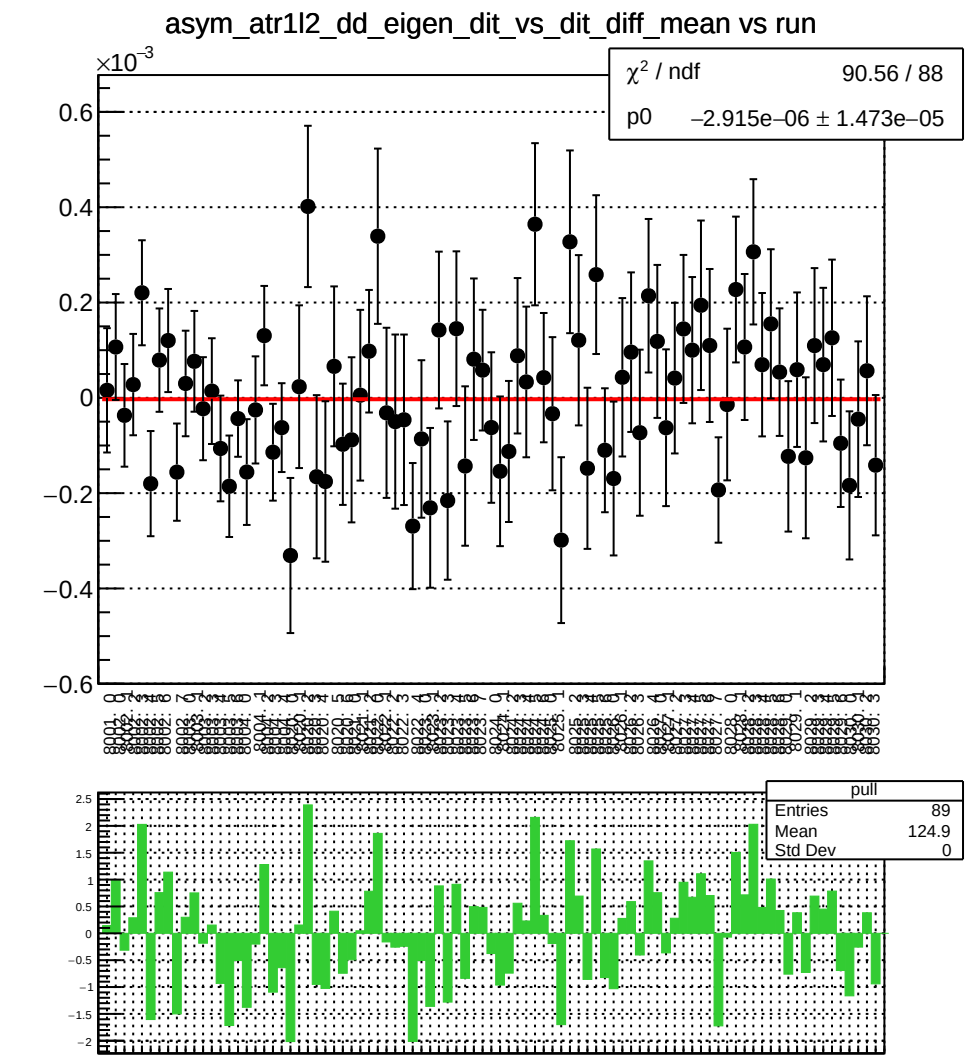

pull1D
Entries 89
Mean 0.02418
Std Dev 1.122

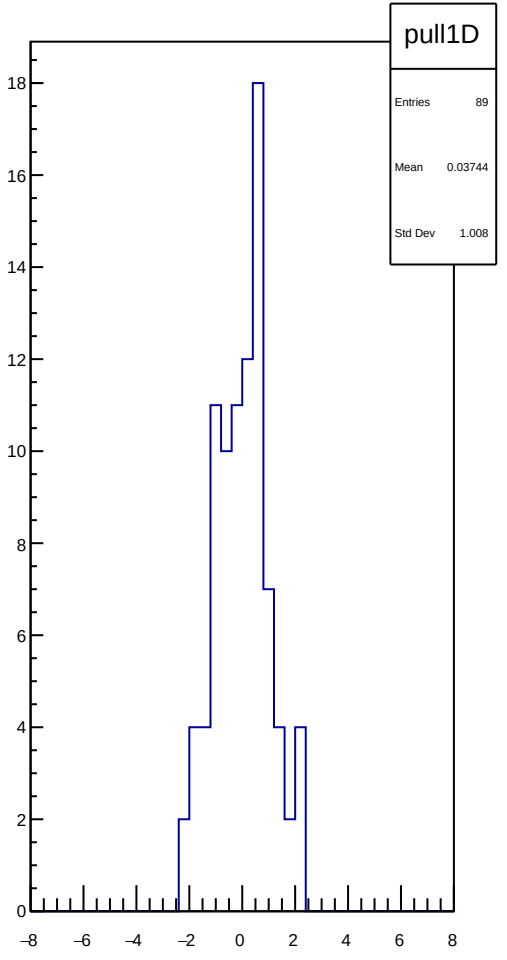

asym_atr1l2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.664e+04 / 88
p0 145.8 ± 0.1123
220
200
180
160
140
120
100

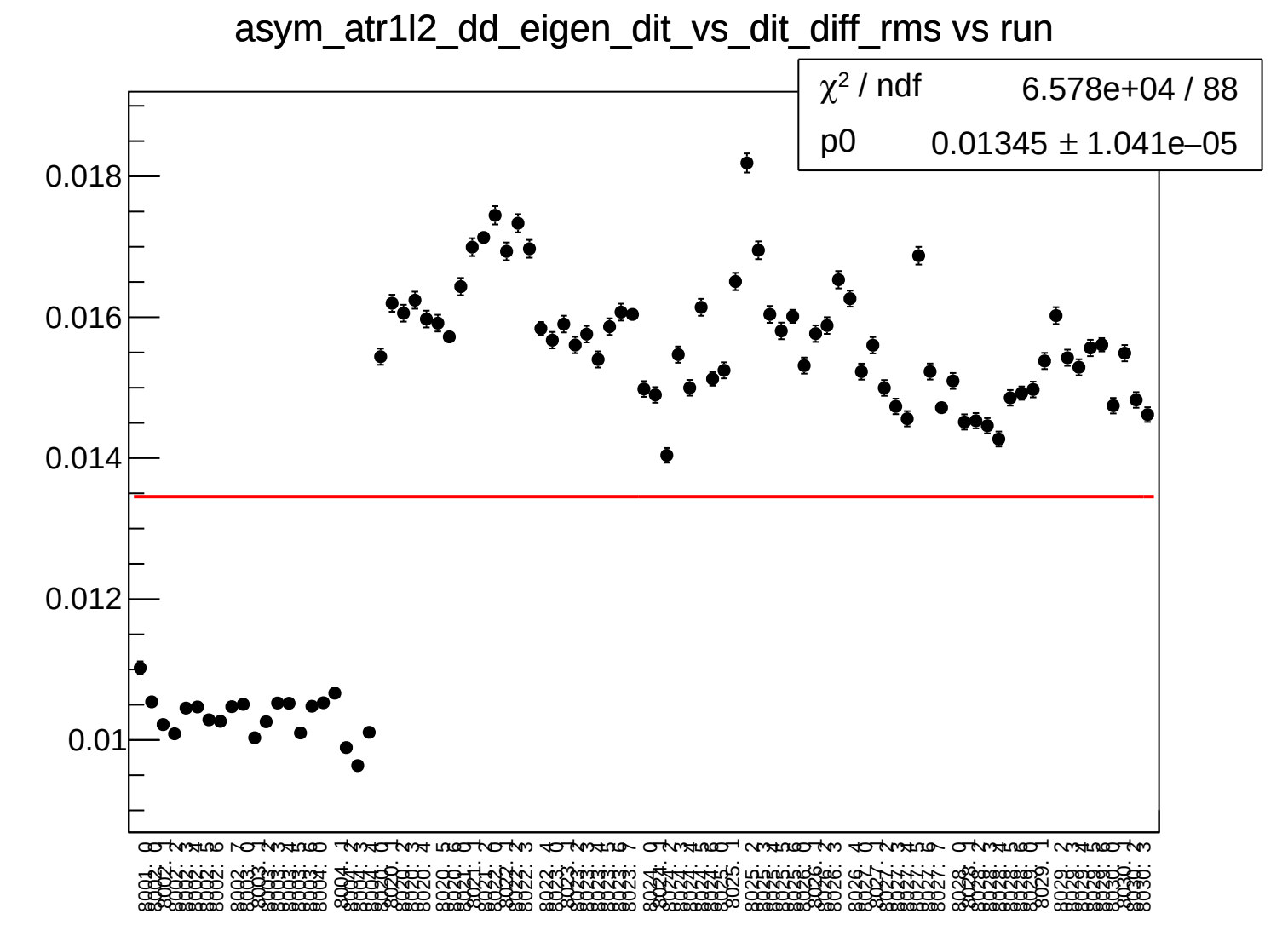

asym_atr1l2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 112.2 / 88
p0 −0.207 ± 0.1588
pull
Entries 89
Mean 127.6
Std Dev 0

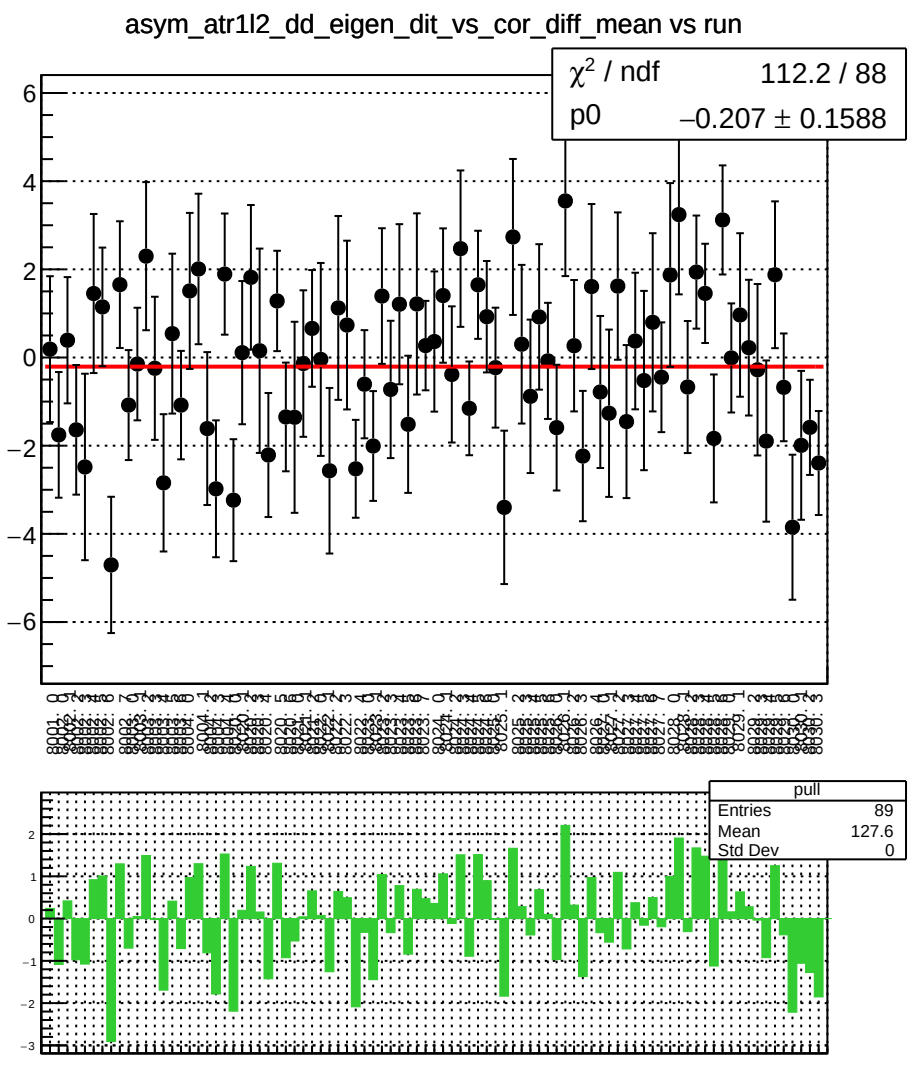

pull1D
Entries 89
Mean 0.02418
Std Dev 1.122

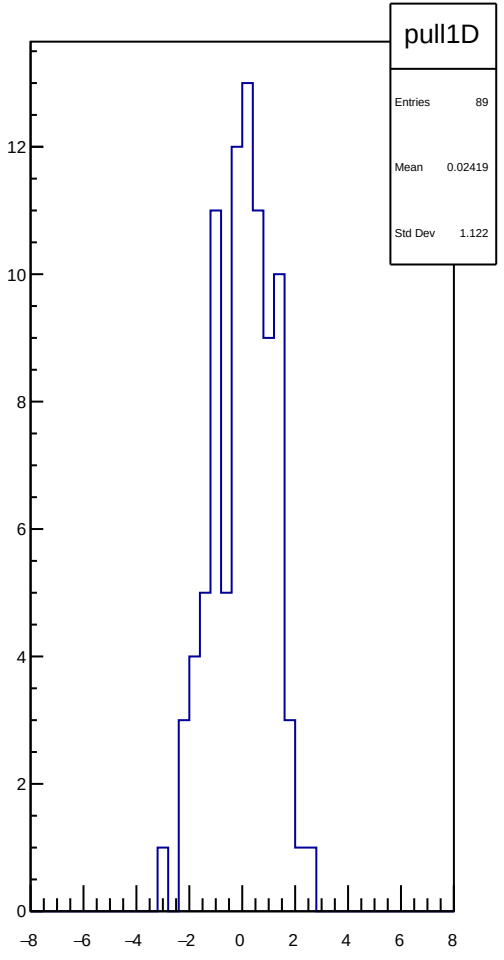

asym_atr1l2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.664e+04 / 88
p0 145.8 ± 0.1123
220
200
180
160
140
120
100

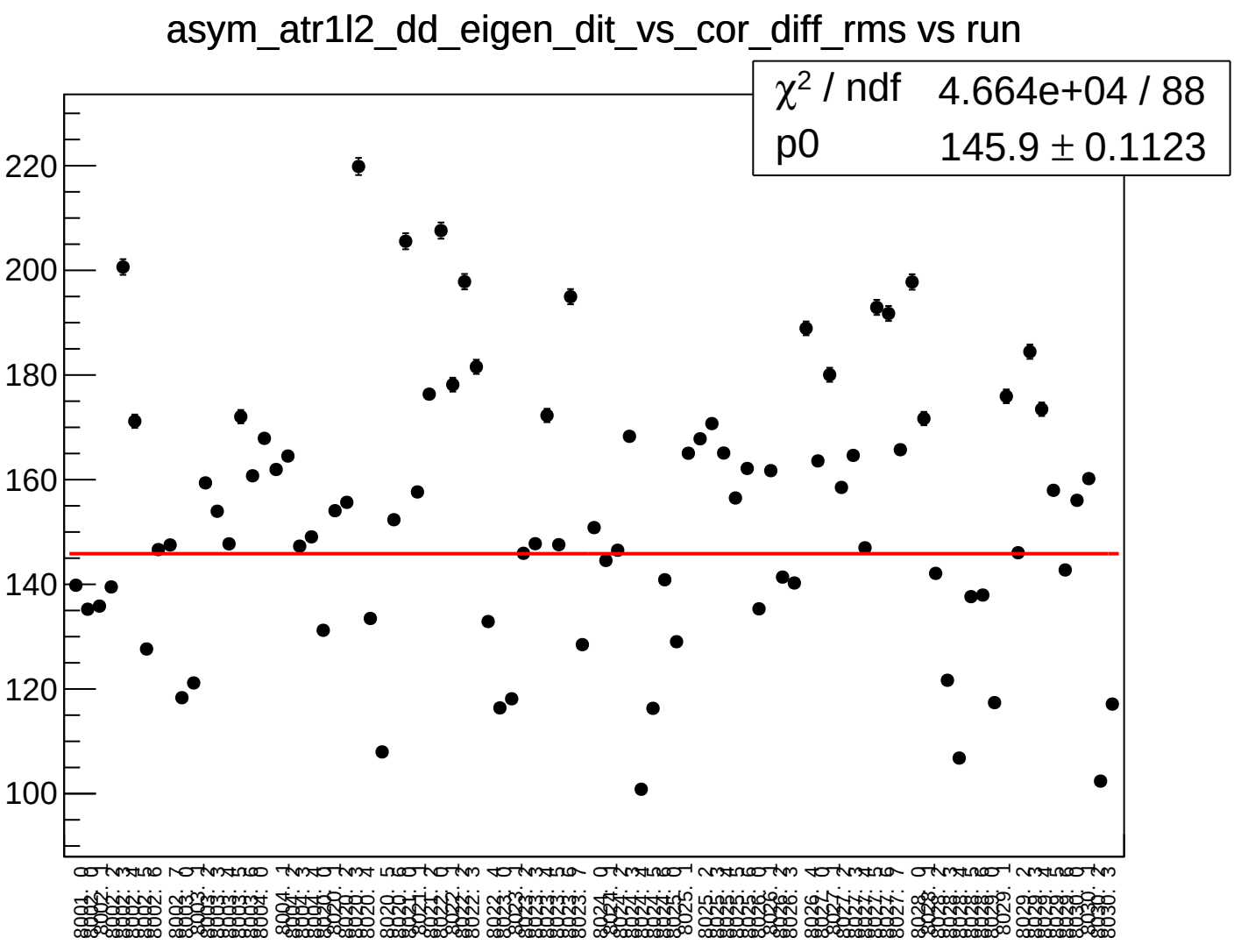

asym_atr1l2_dd_eigen_dit_vs_dit_diff_mean vs run
×10^-3
χ² / ndf 90.56 / 88
p0 −2.915e−06 ± 1.473e−05
pull
Entries 89
Mean 124.9
Std Dev 0

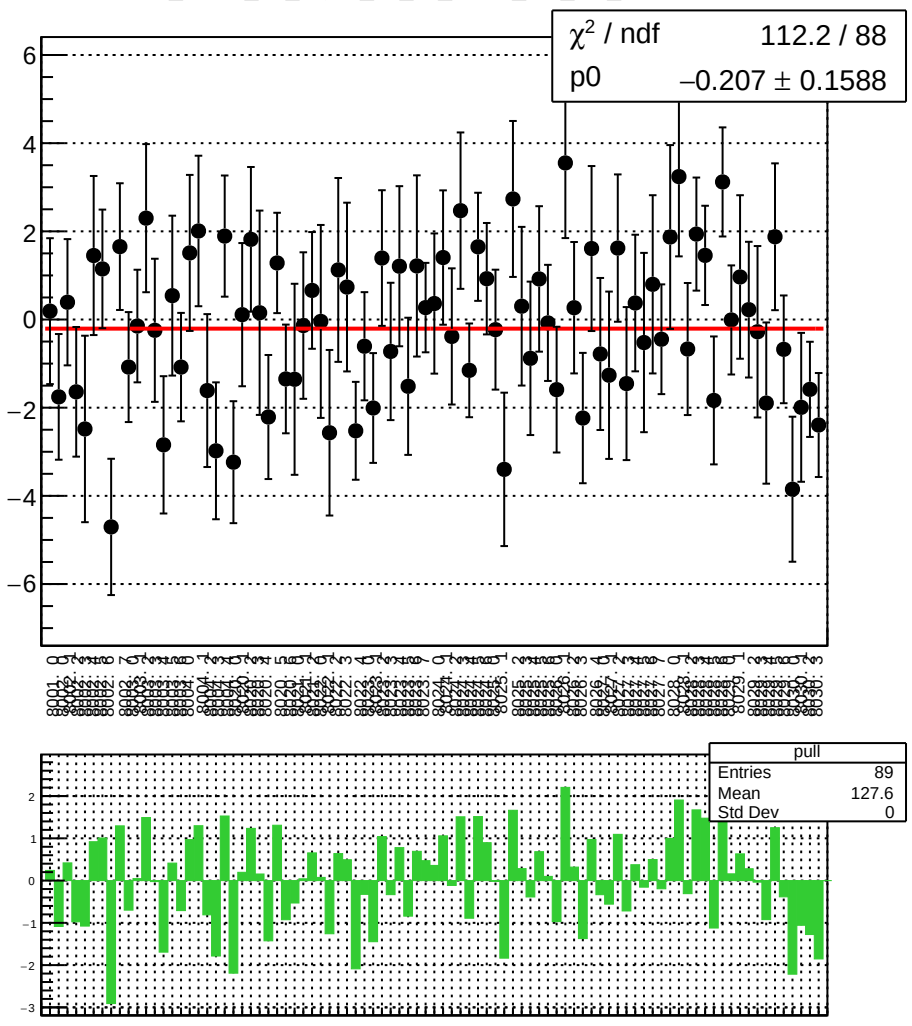

pull1D
Entries 89
Mean 0.03744
Std Dev 1.008

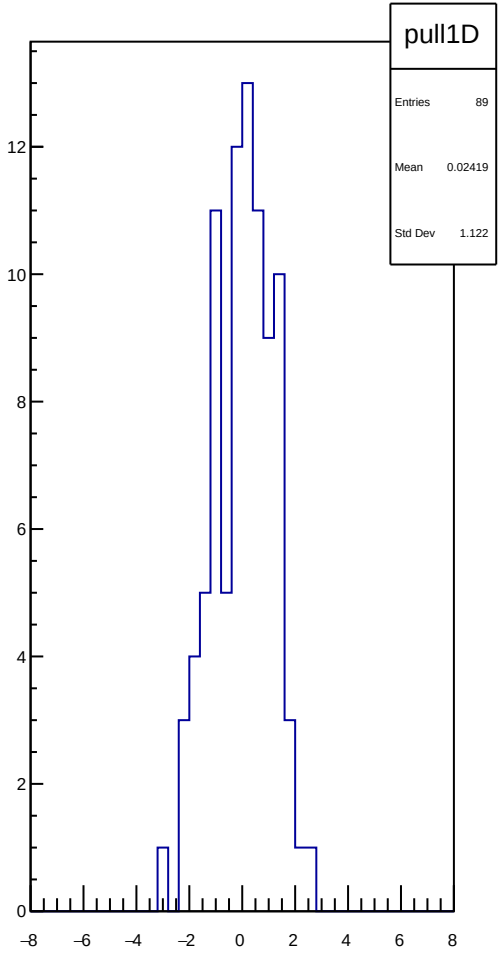

asym_atr1l2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.578e+04 / 88
p0 0.01345 ± 1.041e−05
0.018
0.016
0.014
0.012
0.01

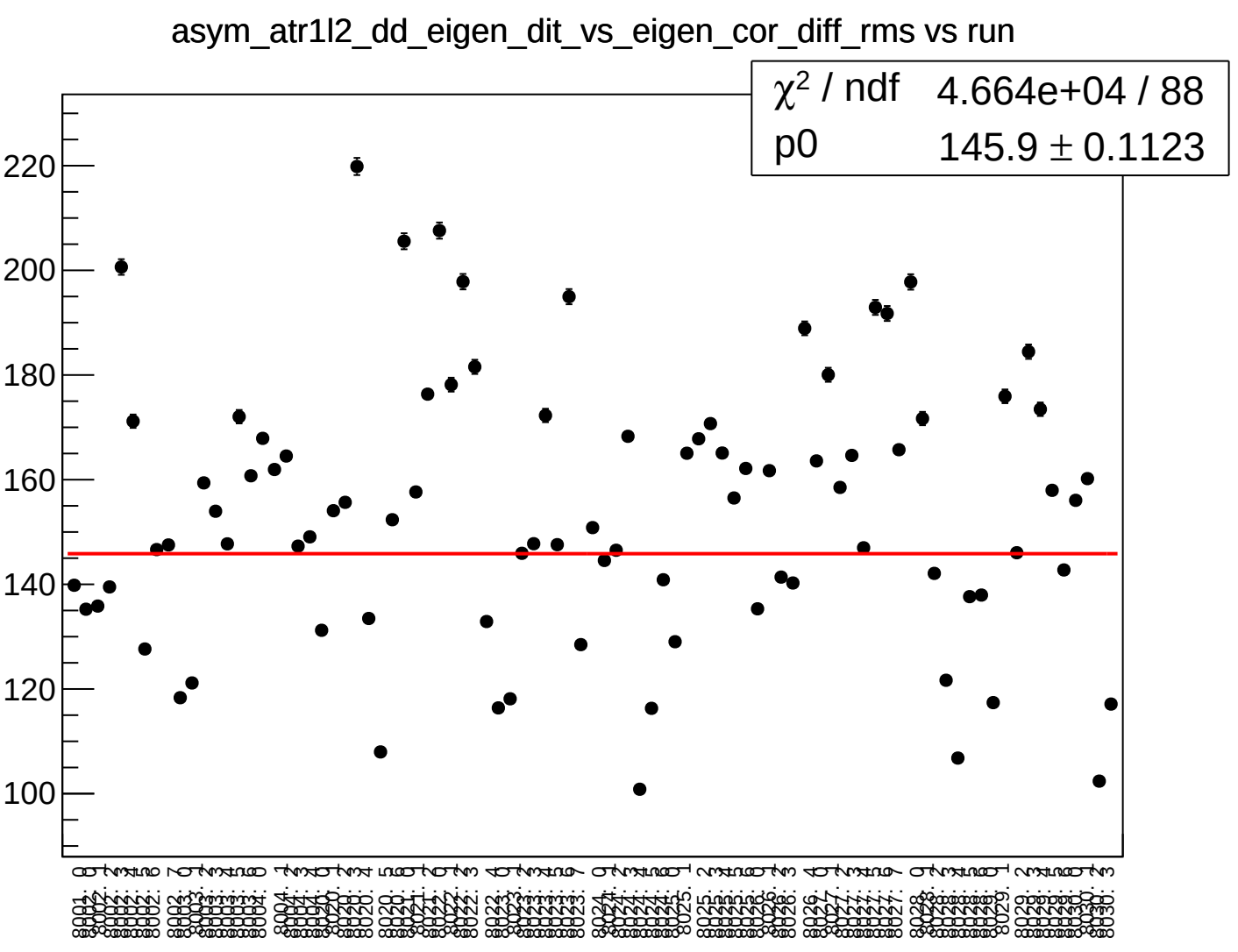

asym_atr1l2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 112.2 / 88
p0 −0.207 ± 0.1588
pull
Entries 89
Mean 127.6
Std Dev 0

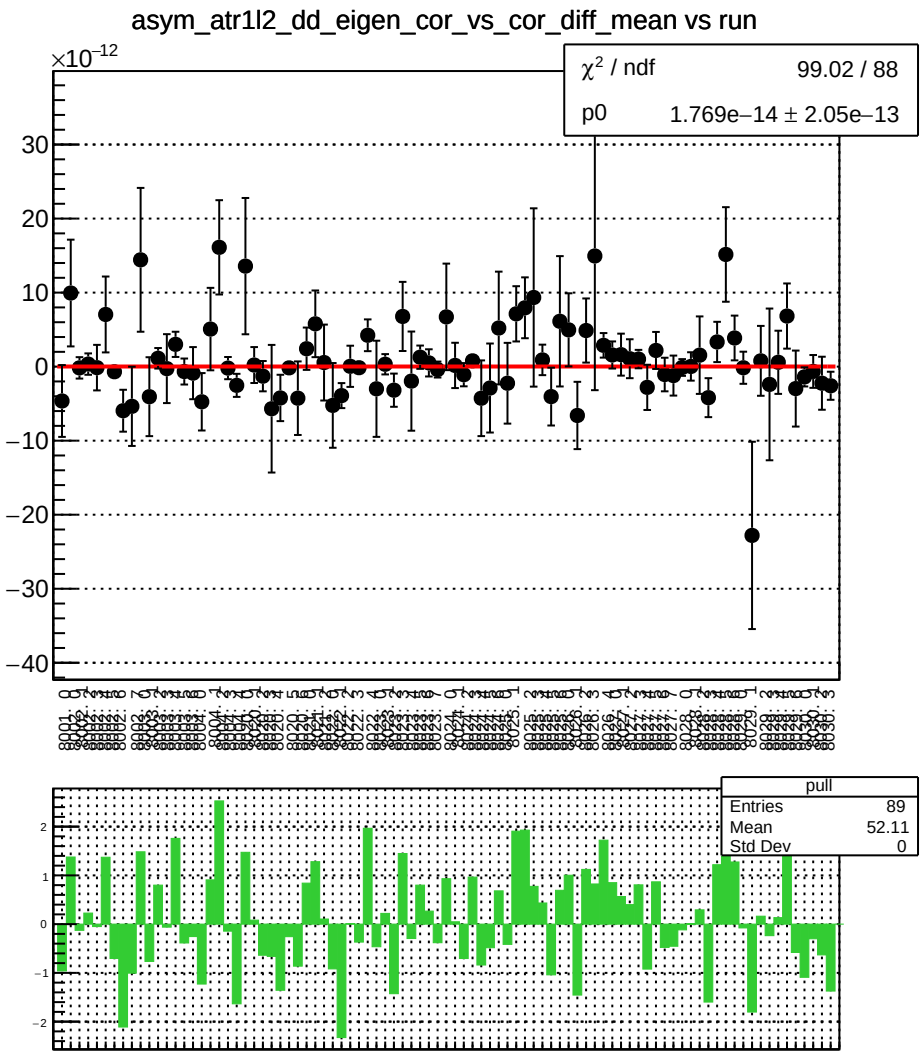

pull1D
Entries 89
Mean 0.02419
Std Dev 1.122

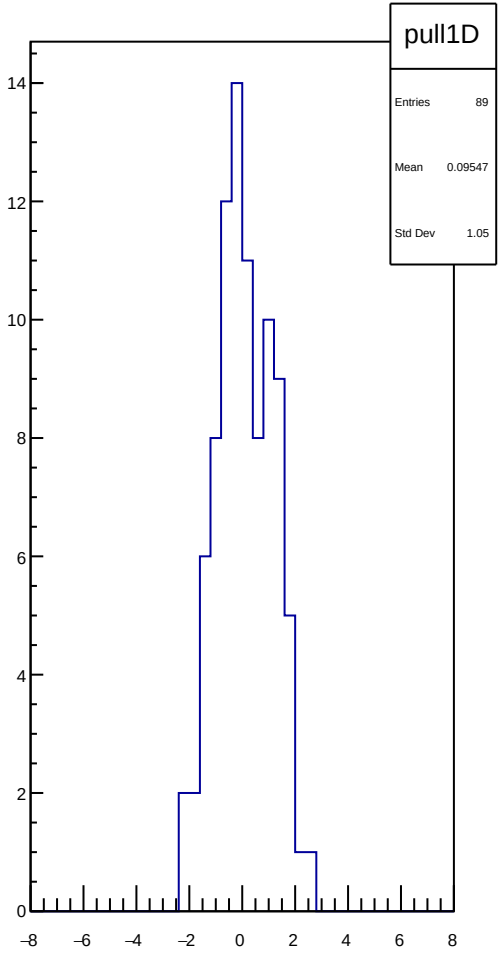

asym_atr1l2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.664e+04 / 88
p0 145.9 ± 0.1123
220
200
180
160
140
120
100

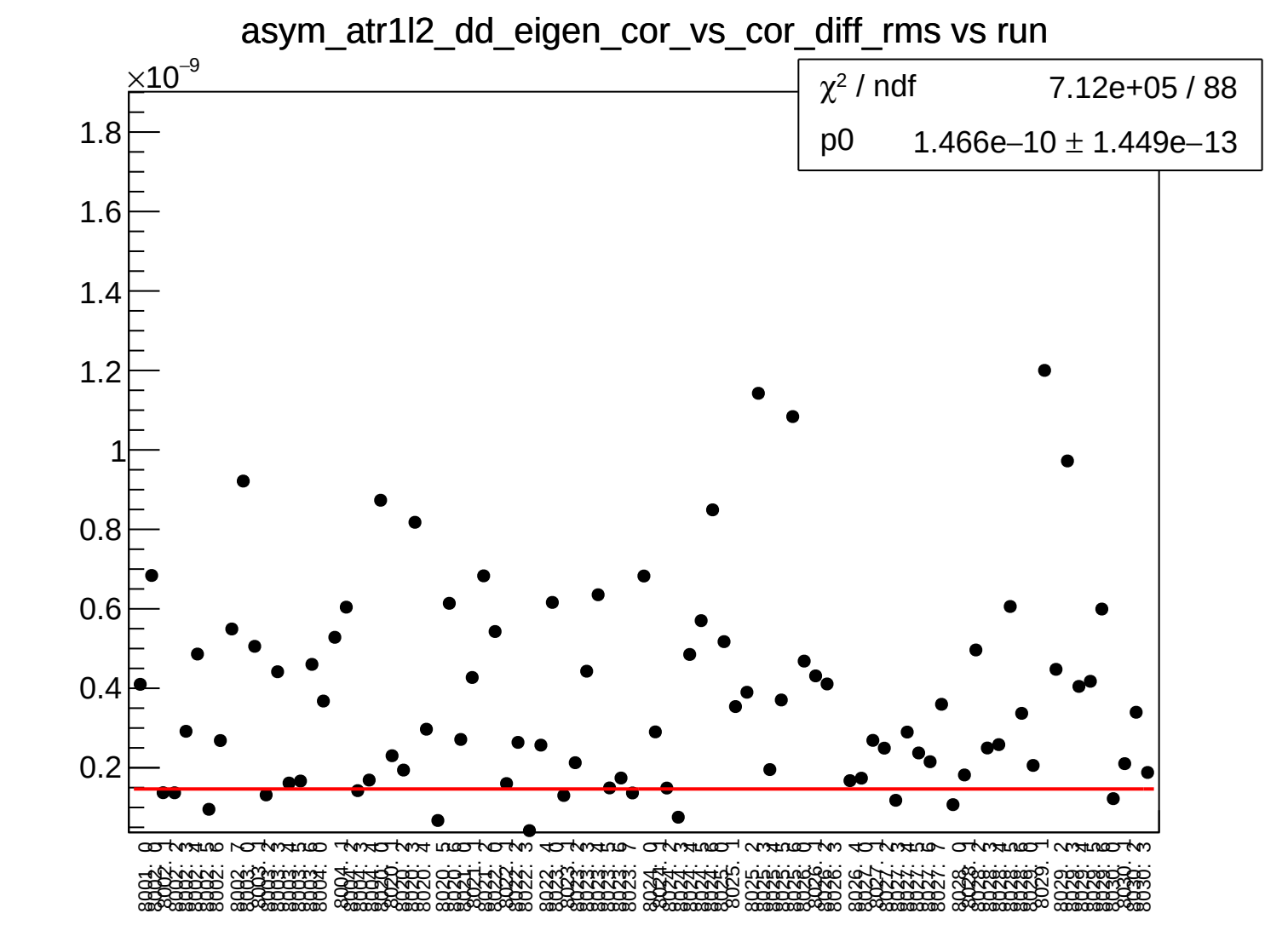

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 112.2 / 88
p0 −0.207 ± 0.1588
pull
Entries 89
Mean 127.6
Std Dev 0

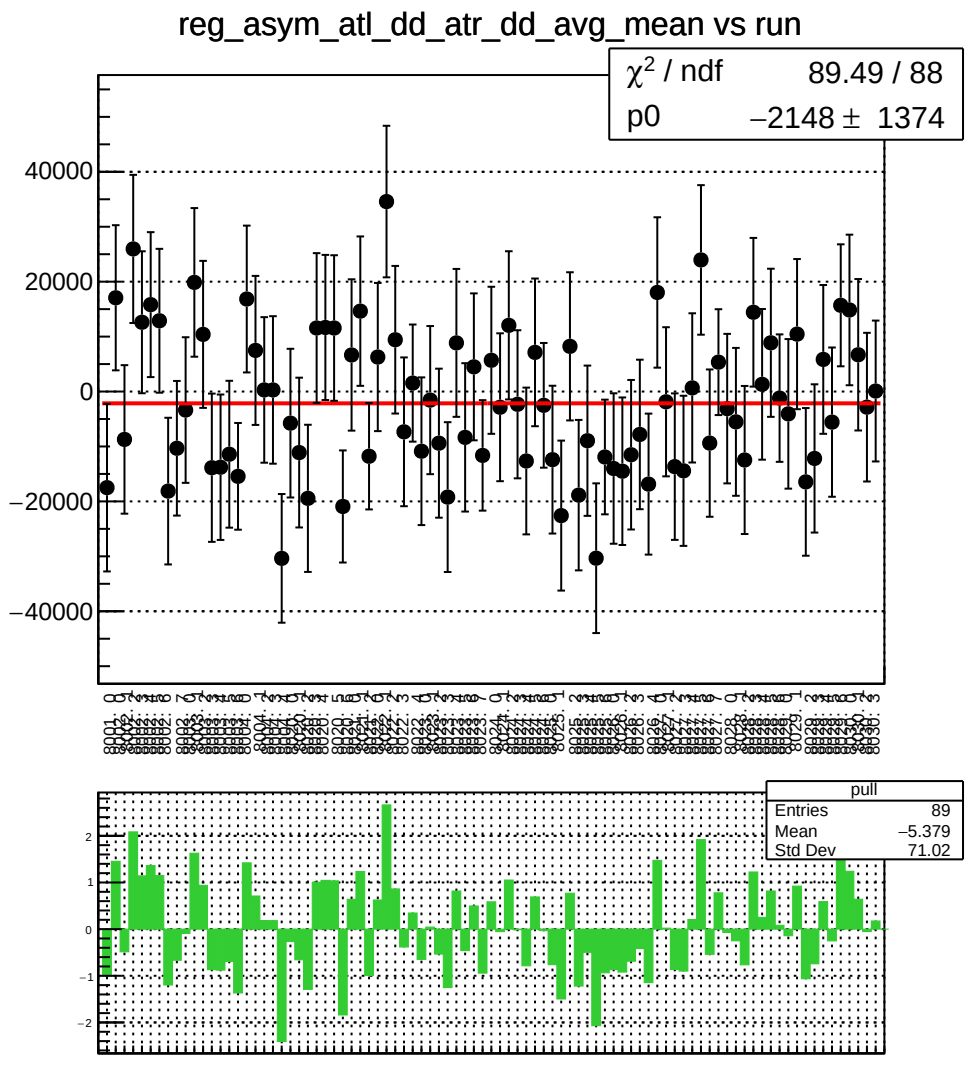

pull1D
Entries 89
Mean 0.02419
Std Dev 1.122

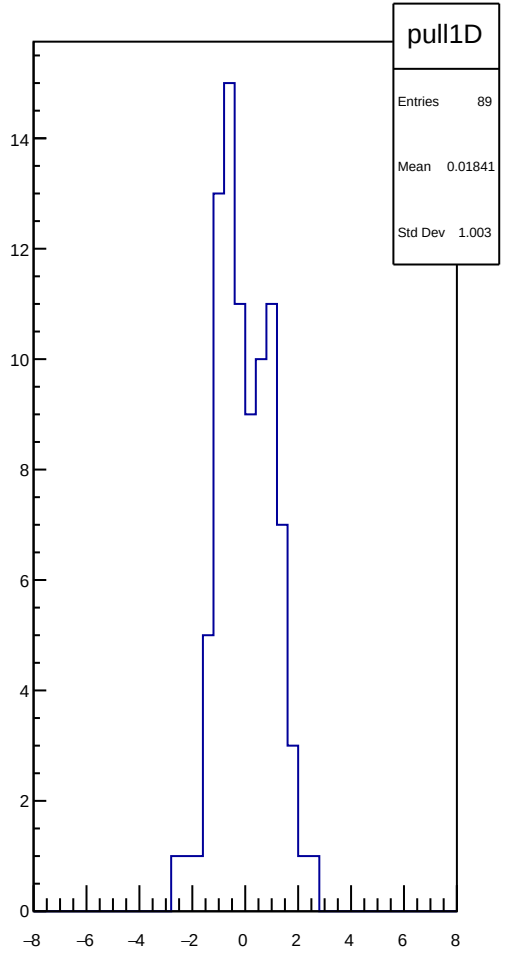

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.664e+04 / 88
p0 145.9 ± 0.1123
220
200
180
160
140
120
100

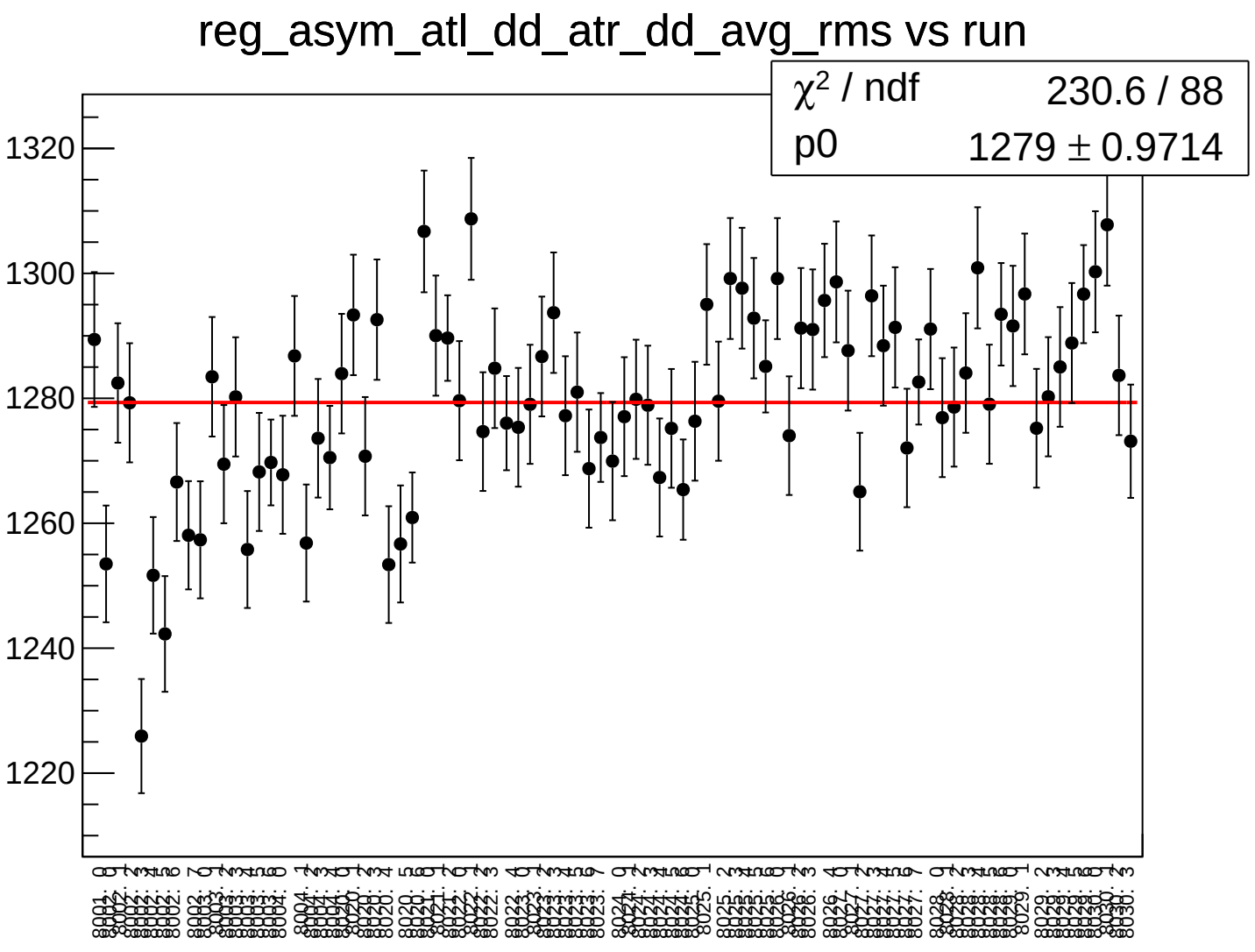

asym_atr1l2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.02 / 88
p0 1.769e−14 ± 2.05e−13
pull
Entries 89
Mean 52.11
Std Dev 0

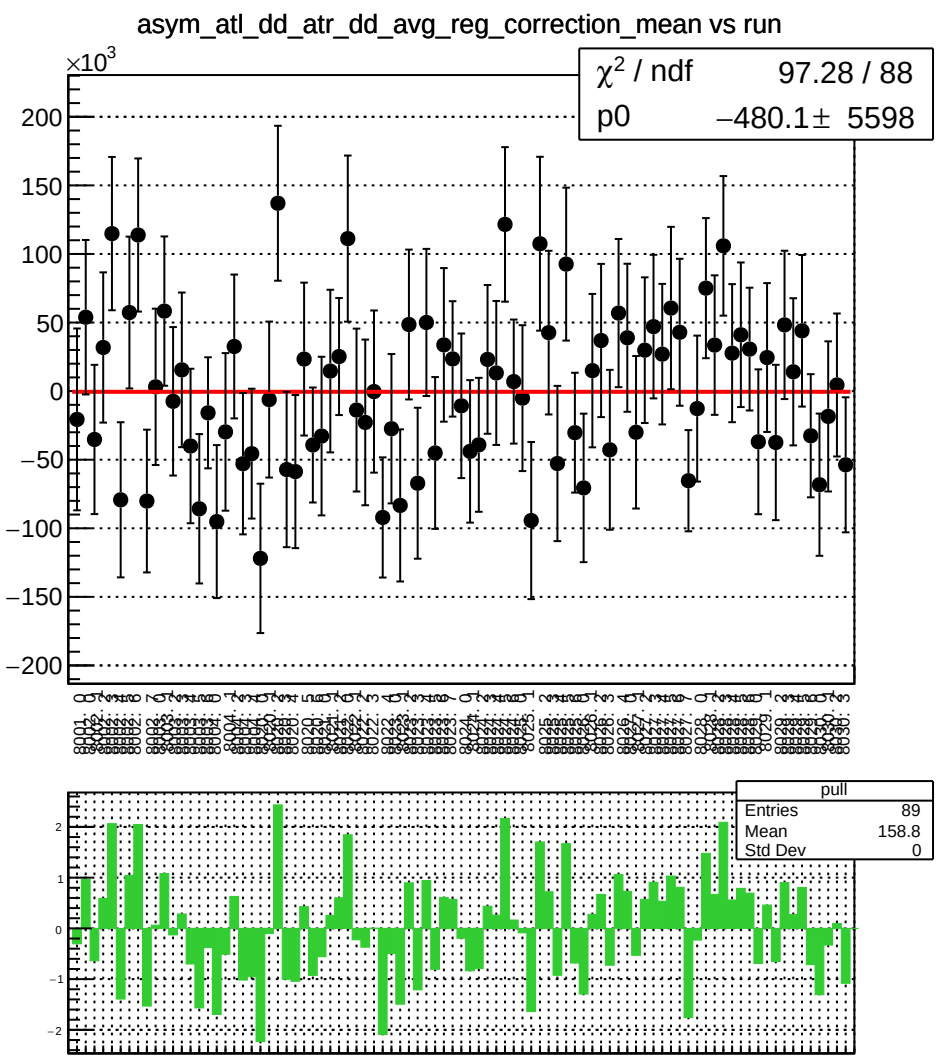

pull1D
Entries 89
Mean 0.09547
Std Dev 1.05

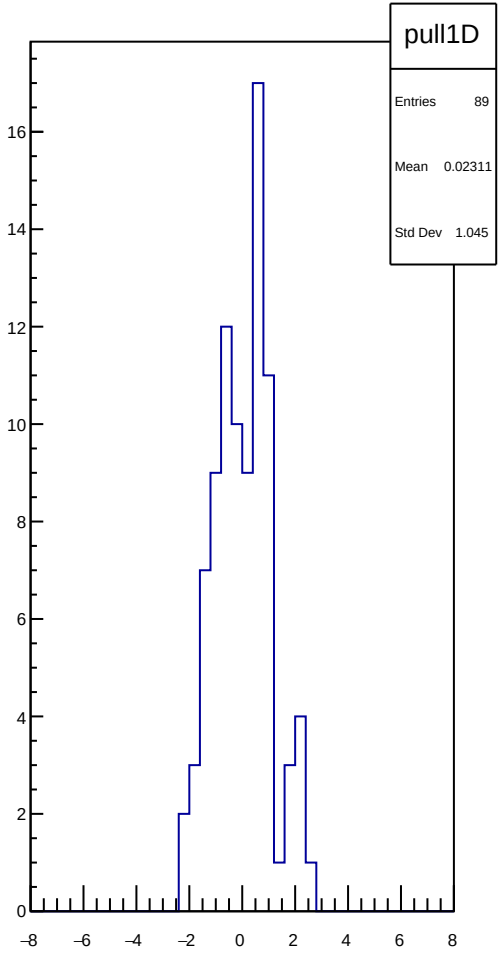

asym_atr1l2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.12e+05 / 88
p0 1.466e−10 ± 1.449e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

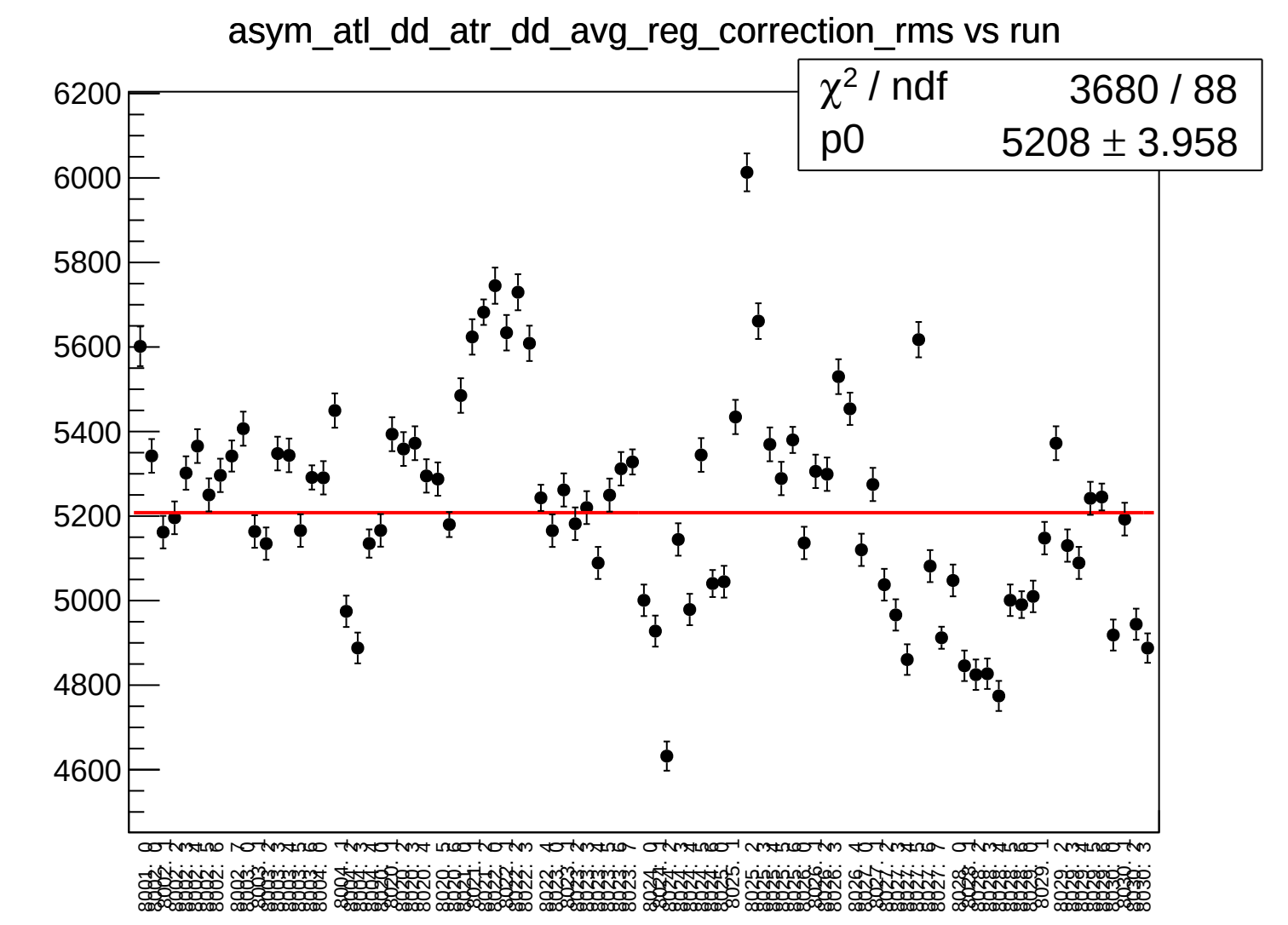

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 89.49 / 88
p0 −2148 ± 1374
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −5.379
Std Dev 71.02
2
1
0
−1
−2

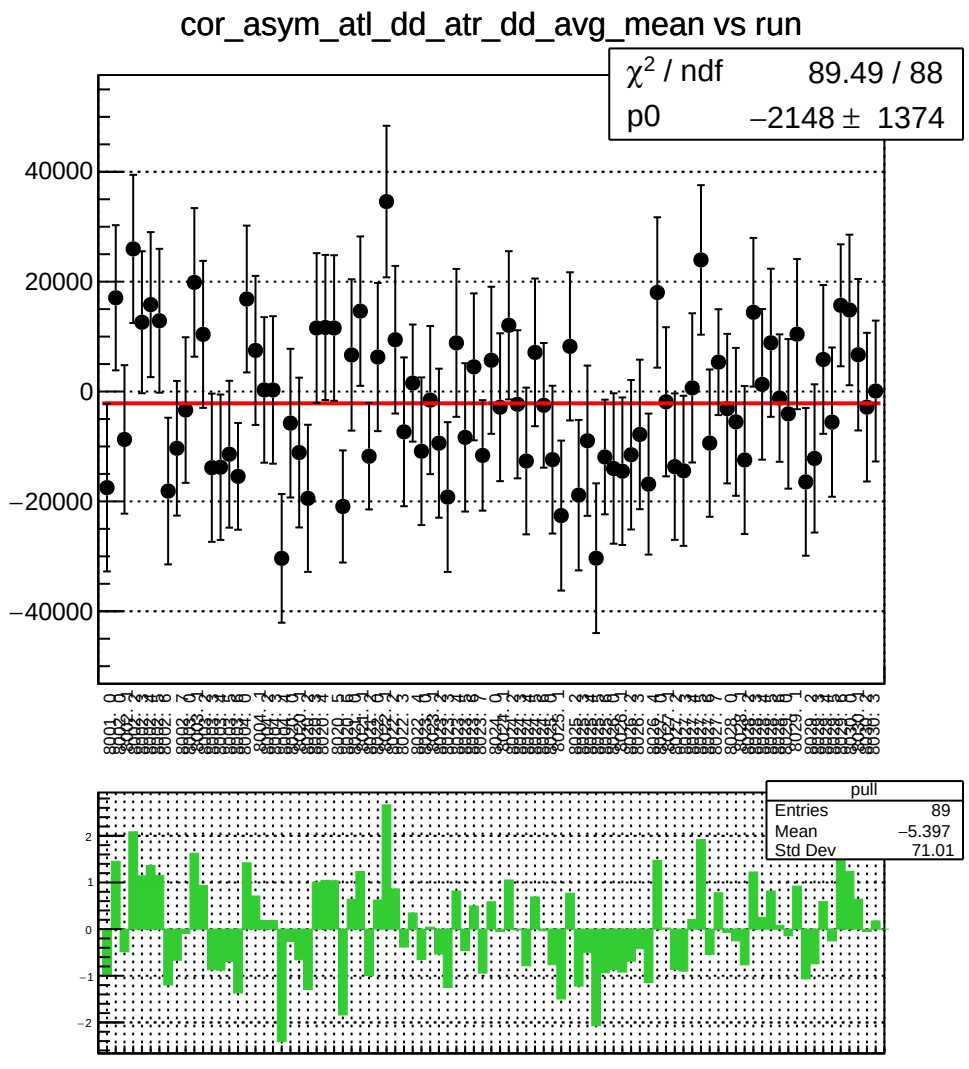

pull1D
Entries 89
Mean 0.01841
Std Dev 1.003
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

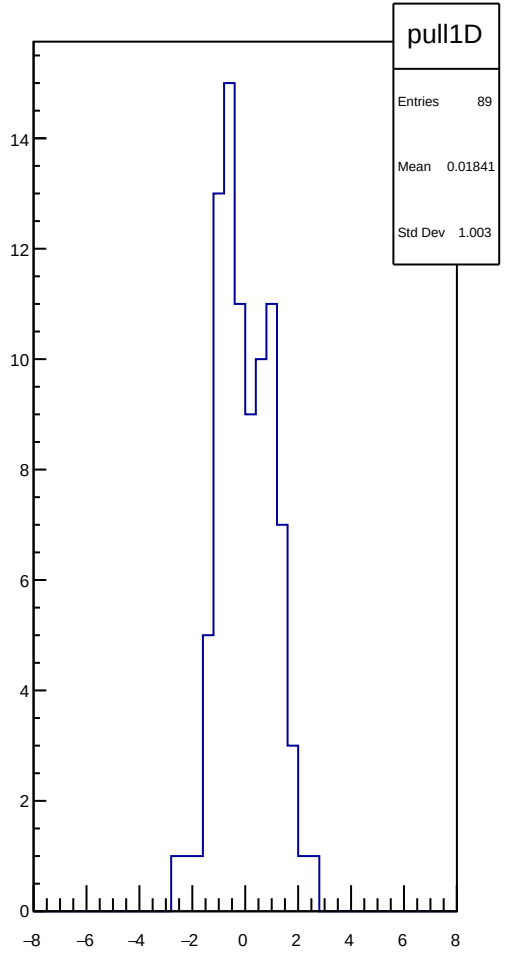

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 230.6 / 88
p0 1279 ± 0.9714
1320
1300
1280
1260
1240
1220

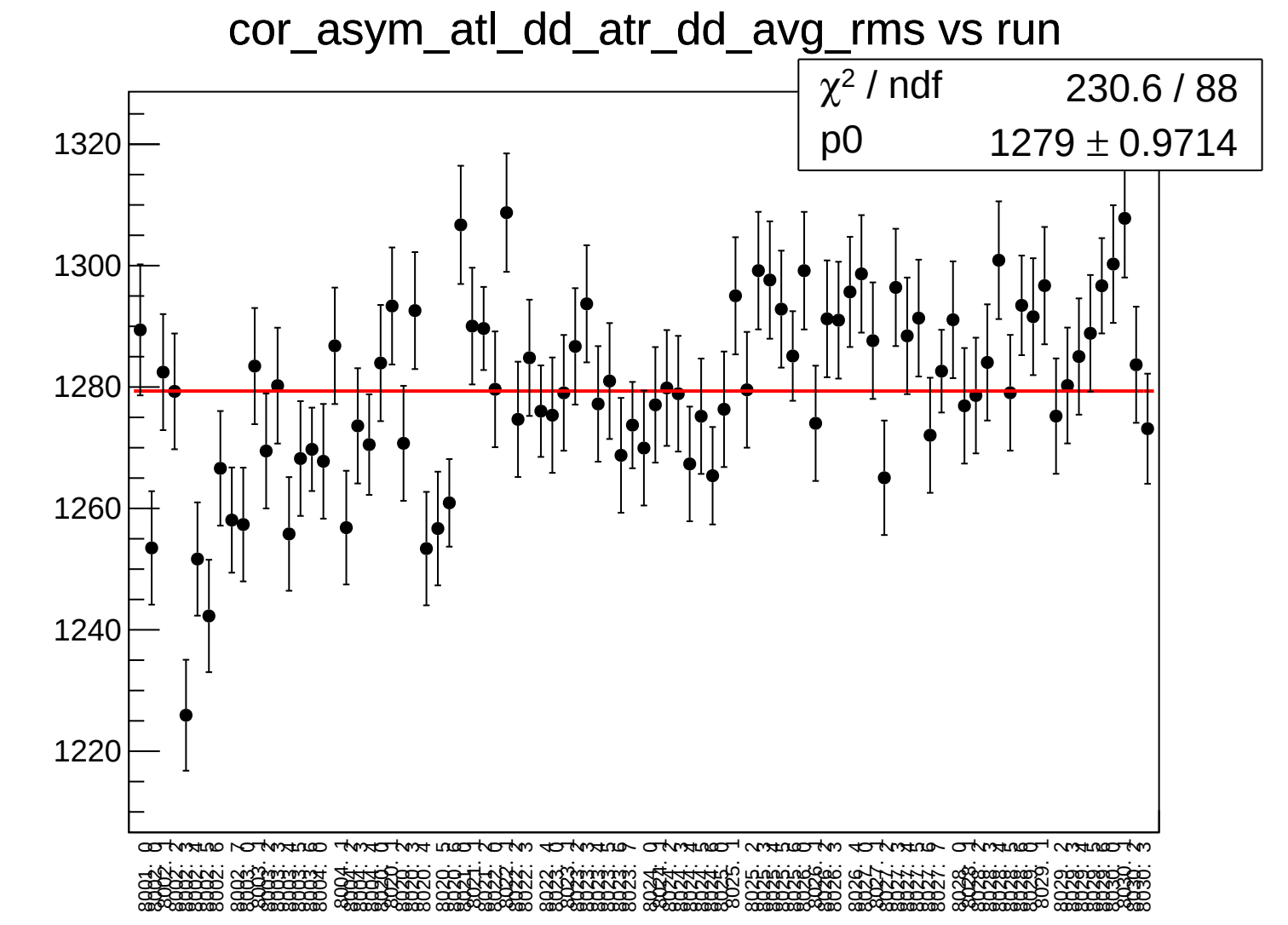

asym_atl_dd_atr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 97.28 / 88
p0 −480.1± 5598
pull
Entries 89
Mean 158.8
Std Dev 0

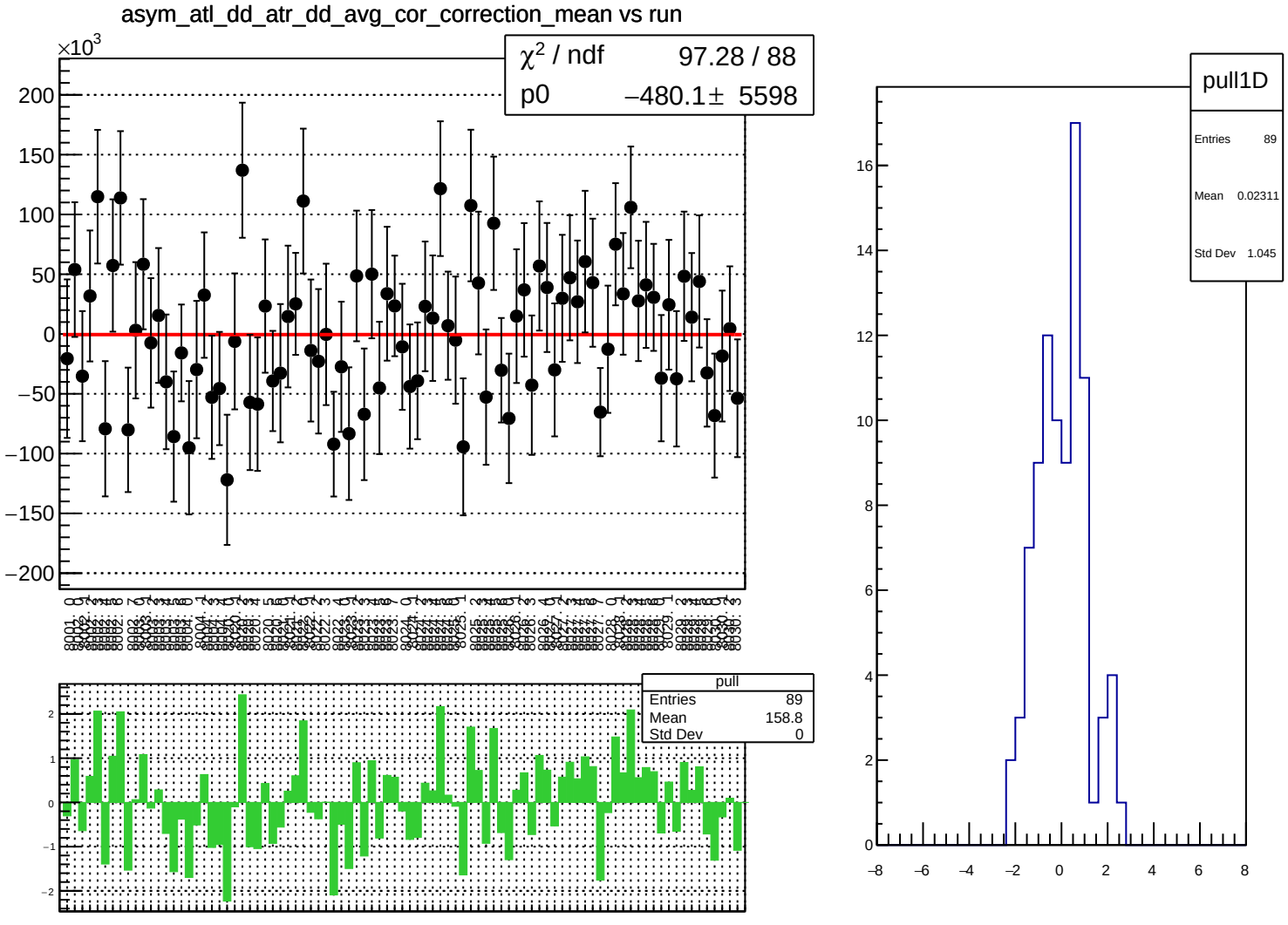

pull1D
Entries 89
Mean 0.02311
Std Dev 1.045

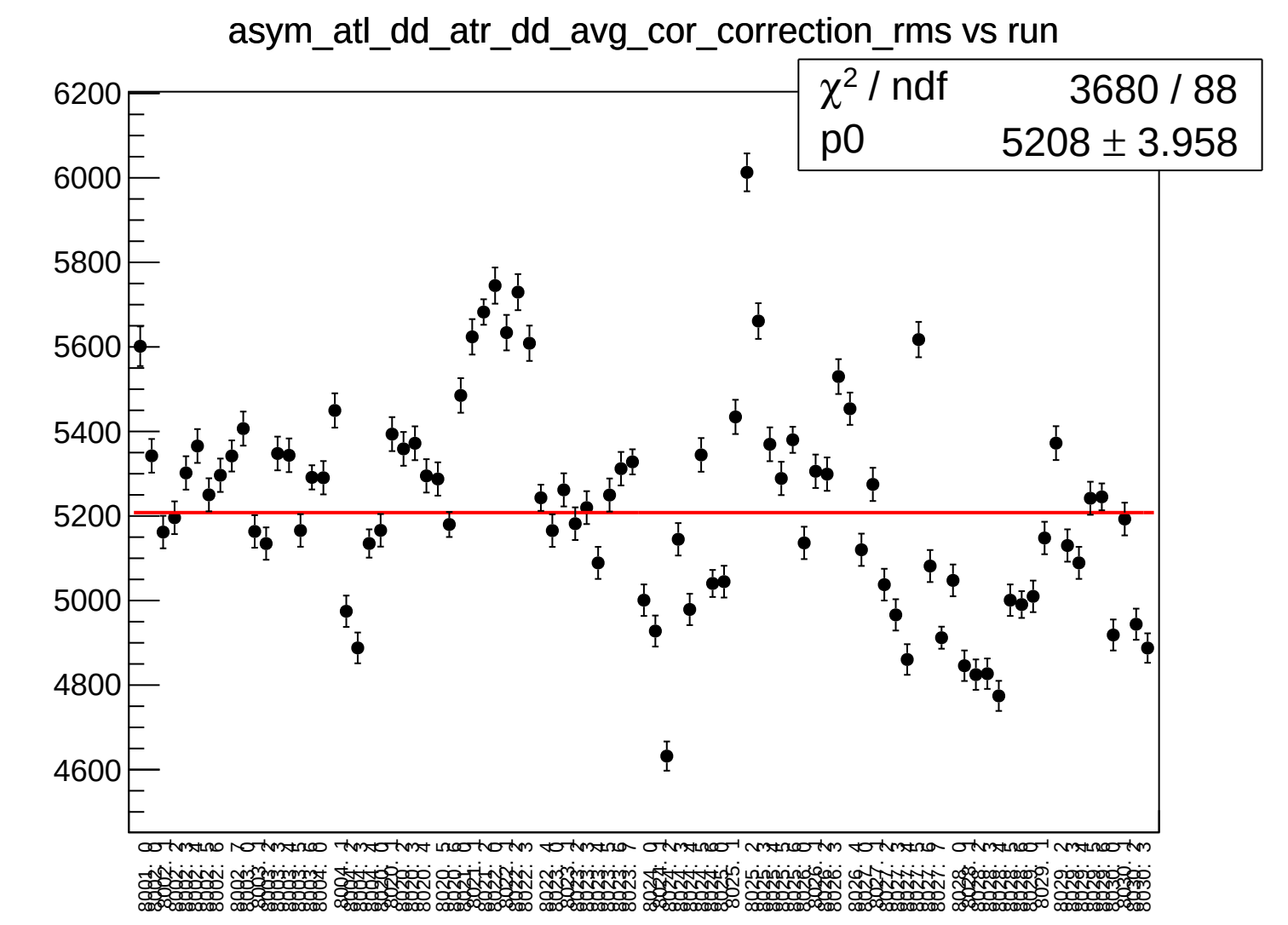

asym_atl_dd_atr_dd_avg_reg_correction_rms vs run
χ² / ndf 3680 / 88
p0 5208 ± 3.958
6200
6000
5800
5600
5400
5200
5000
4800
4600

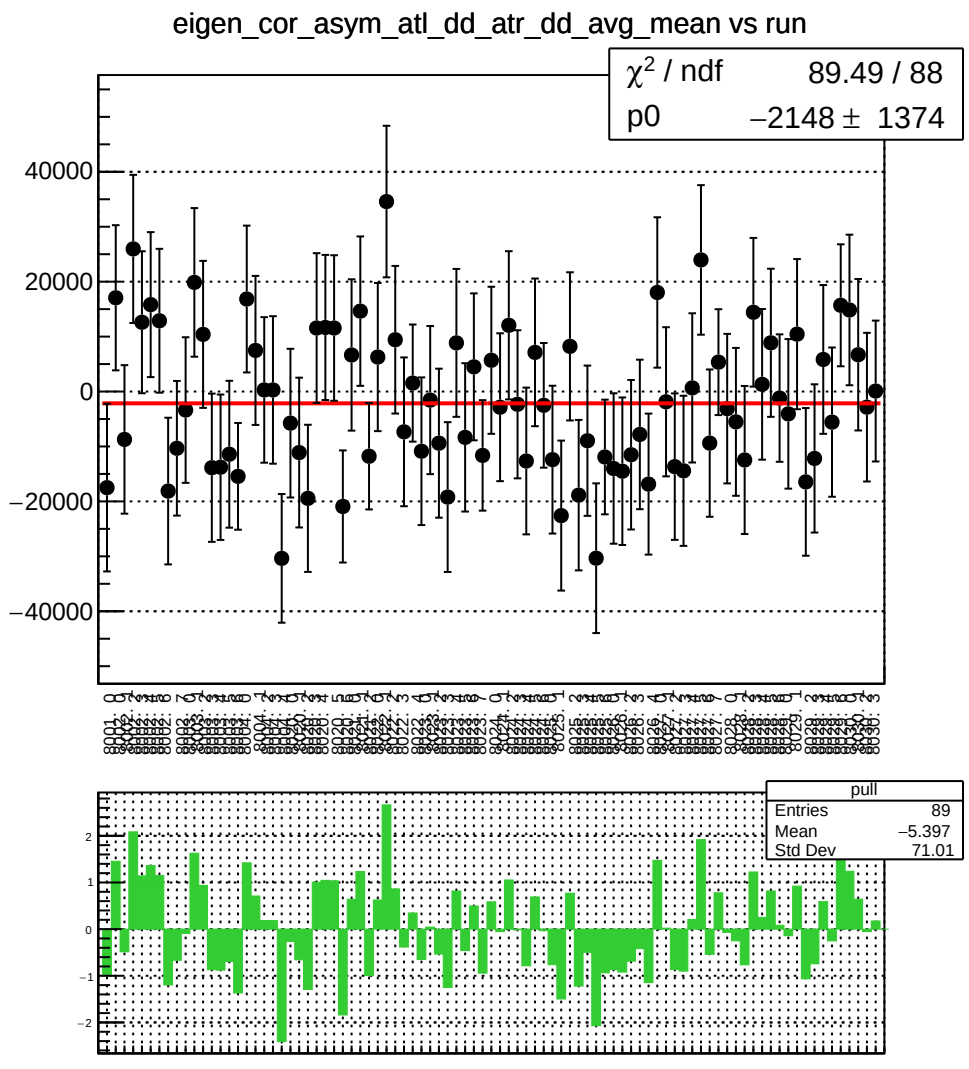

cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 89.49 / 88
p0 −2148 ± 1374
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −5.397
Std Dev 71.01
2
1
0
−1
−2

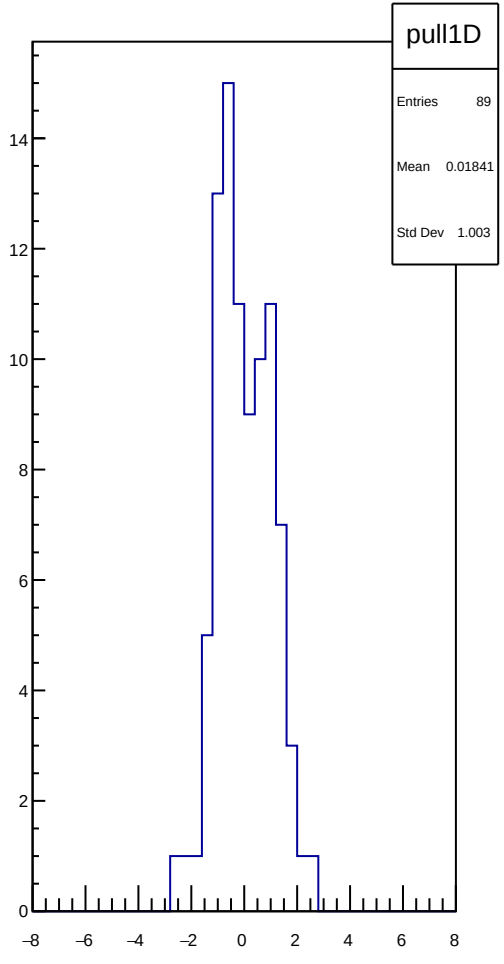

pull1D
Entries 89
Mean 0.01841
Std Dev 1.003
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

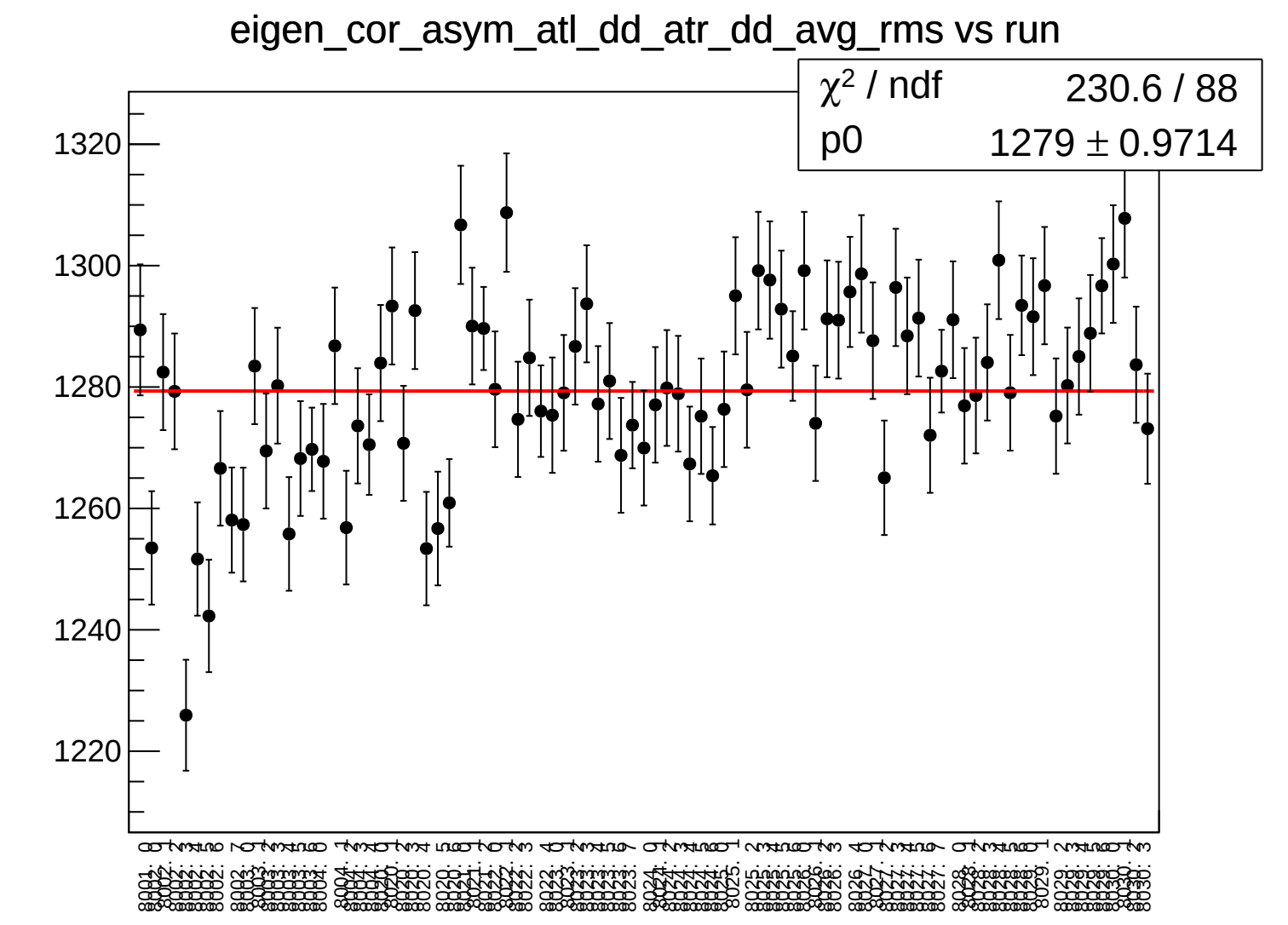

cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 230.6 / 88
p0 1279 ± 0.9714
1320
1300
1280
1260
1240
1220

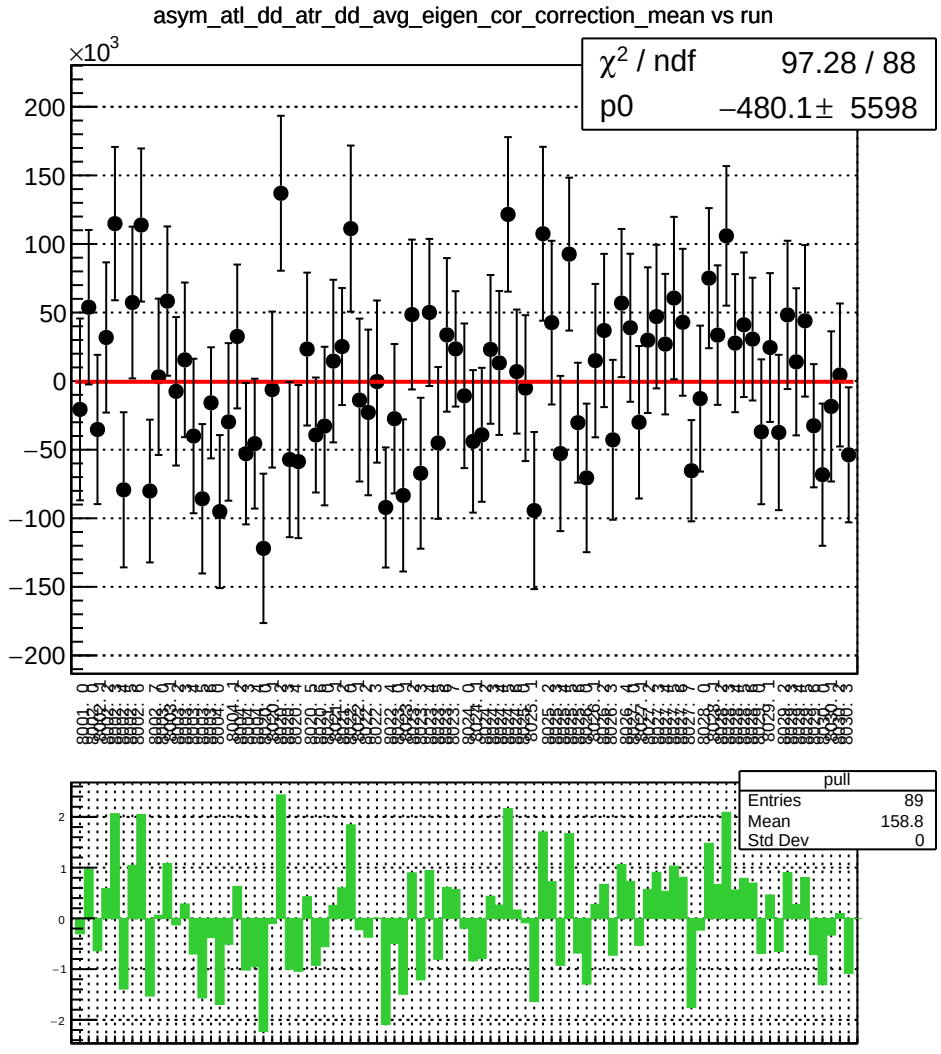

asym_atl_dd_atr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 97.28 / 88
p0 −480.1± 5598
pull
Entries 89
Mean 158.8
Std Dev 0
pull1D
Entries 89
Mean 0.02311
Std Dev 1.045

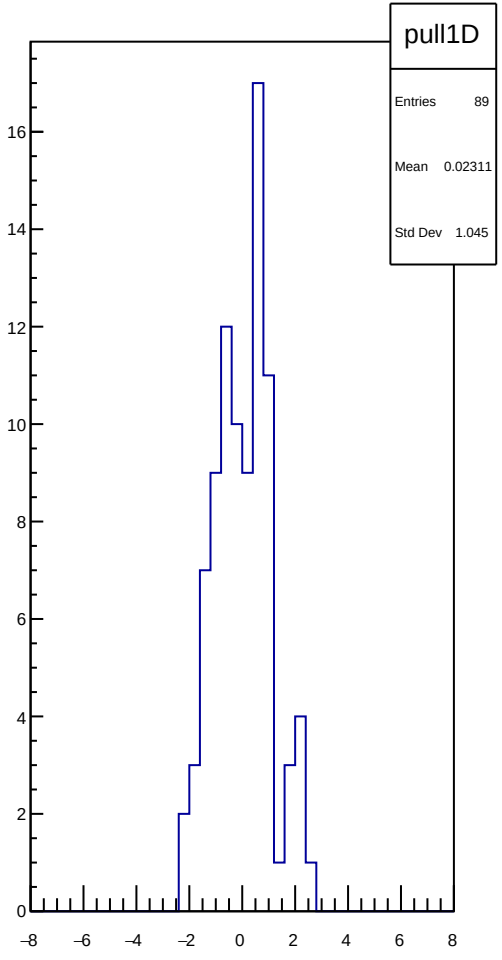

asym_atl_dd_atr_dd_avg_cor_correction_rms vs run
χ² / ndf 3680 / 88
p0 5208 ± 3.958
6200
6000
5800
5600
5400
5200
5000
4800
4600

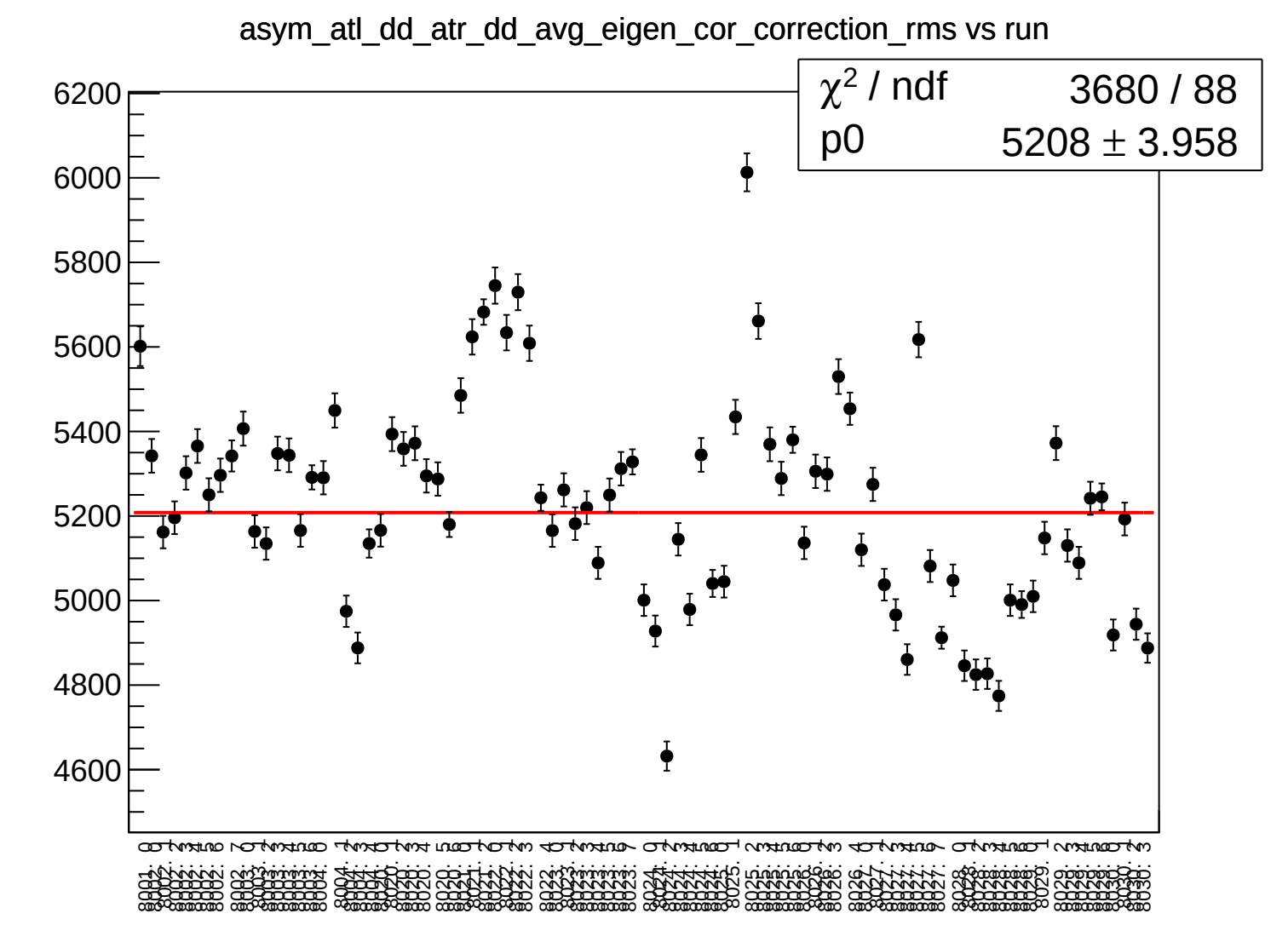

eigen_cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 89.49 / 88
p0 −2148 ± 1374
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −5.397
Std Dev 71.01
2
1
0
−1
−2

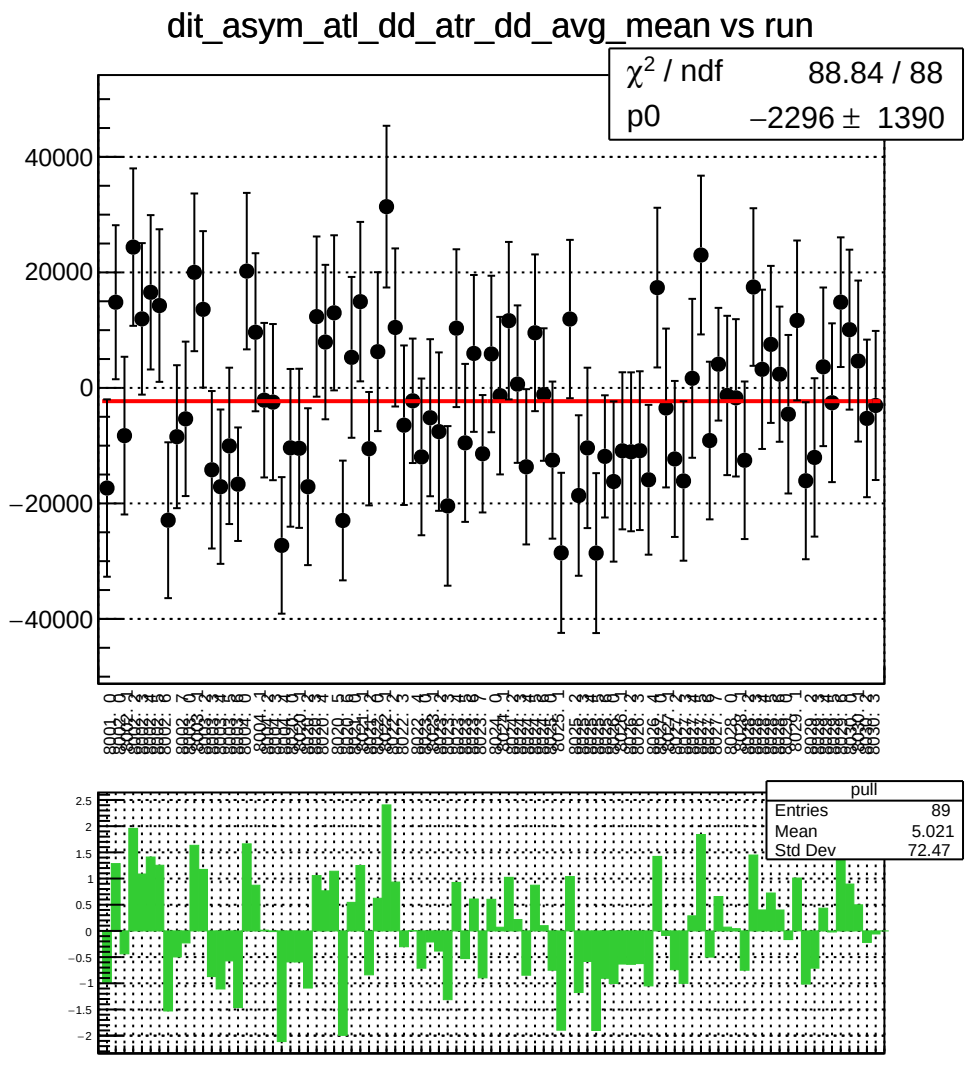

pull1D
Entries 89
Mean 0.01841
Std Dev 1.003
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

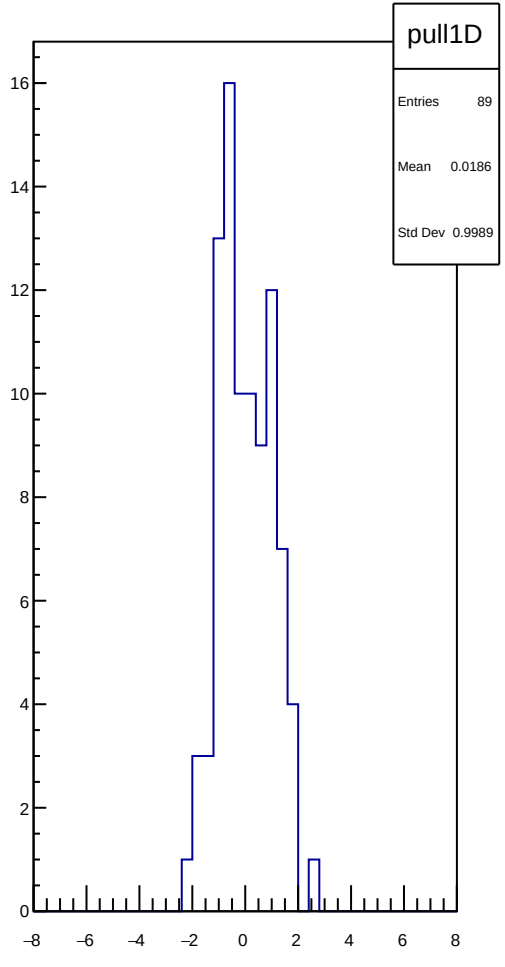

eigen_cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 230.6 / 88
p0 1279 ± 0.9714
1320
1300
1280
1260
1240
1220

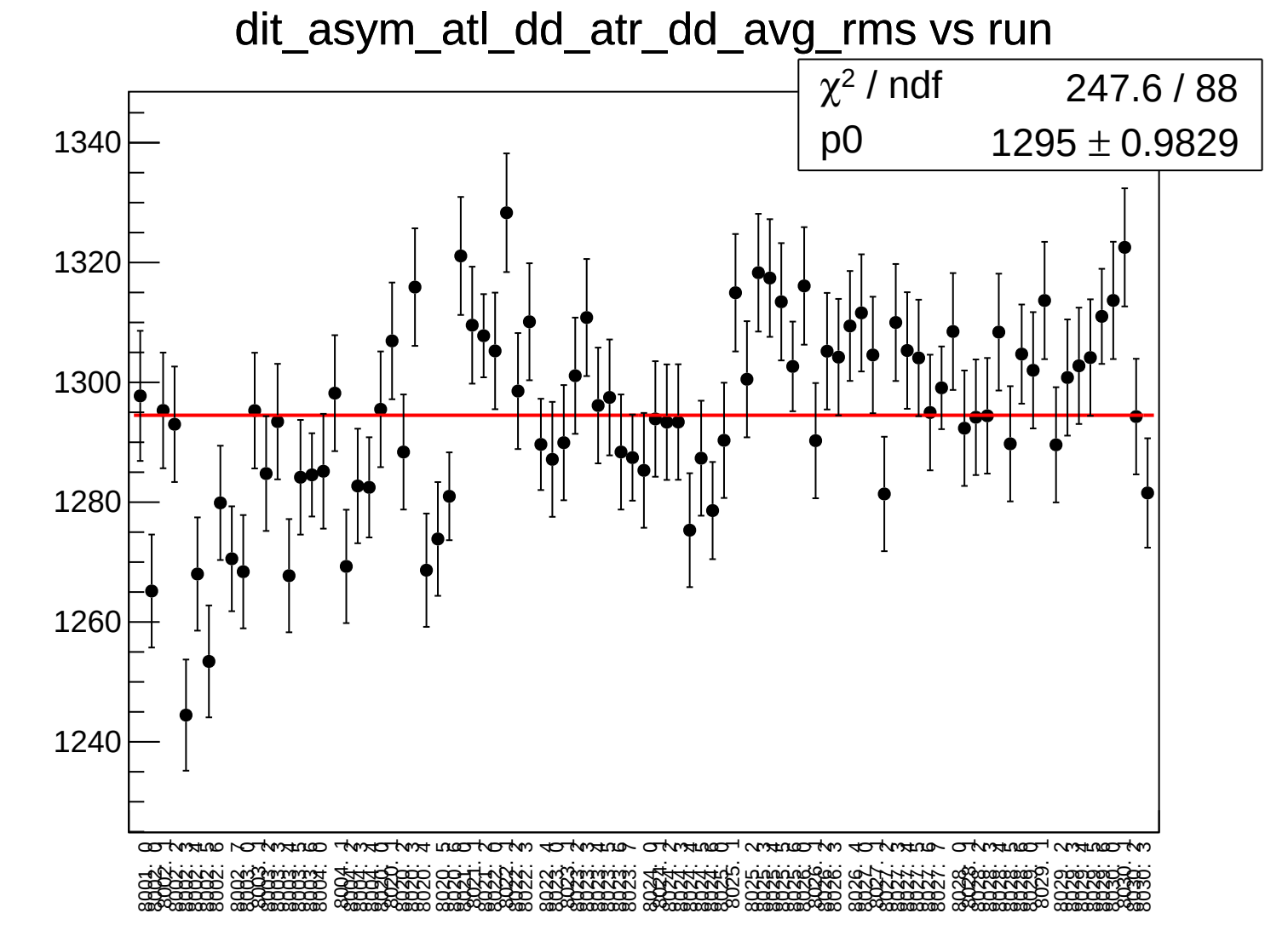

asym_atl_dd_atr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 97.28 / 88
p0 −480.1± 5598
pull
Entries 89
Mean 158.8
Std Dev 0

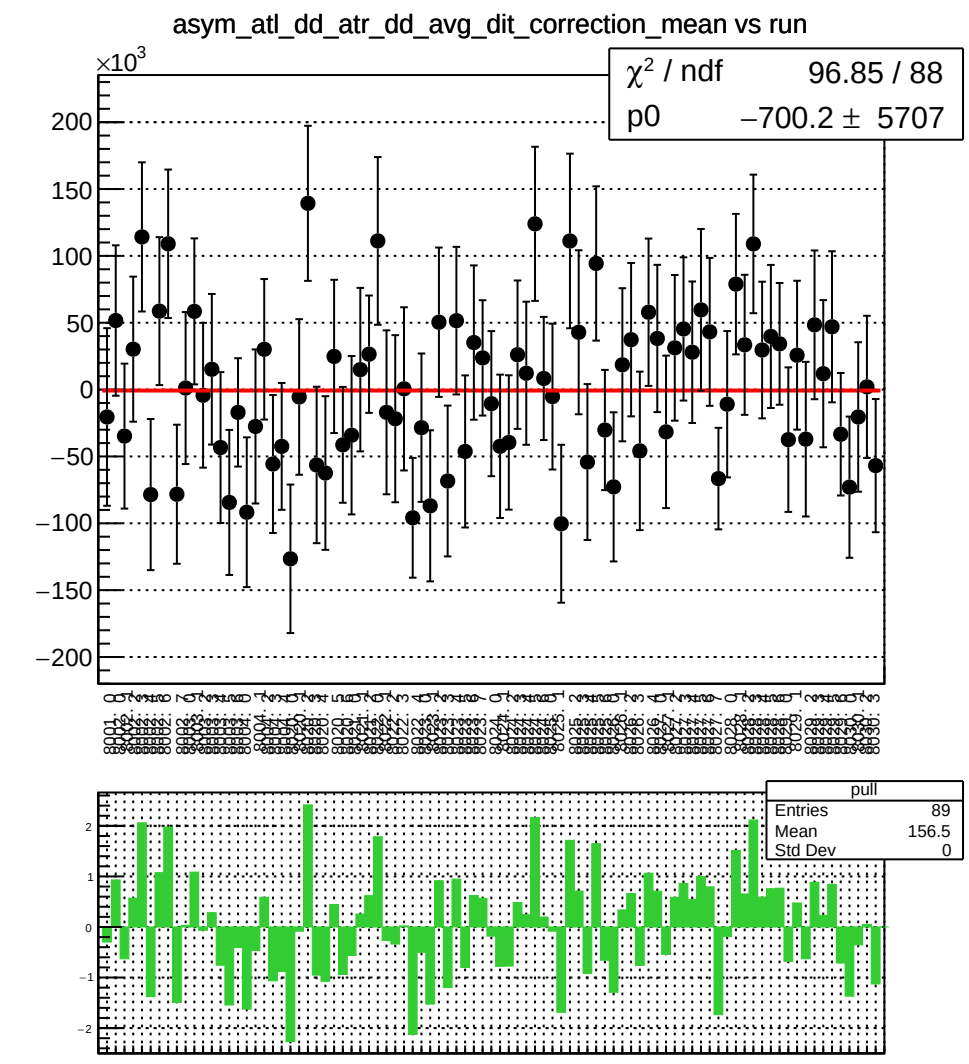

pull1D
Entries 89
Mean 0.02311
Std Dev 1.045

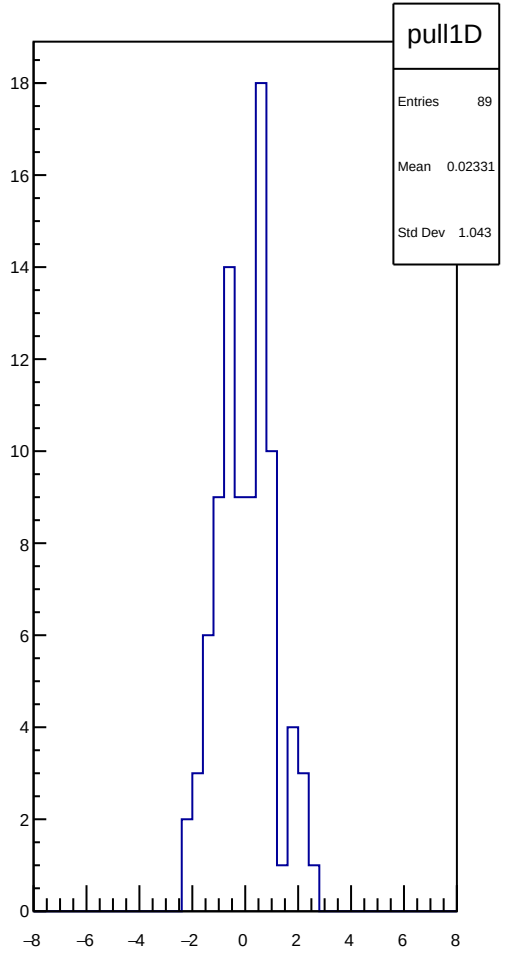

asym_atl_dd_atr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 3680 / 88
p0 5208 ± 3.958
6200
6000
5800
5600
5400
5200
5000
4800
4600

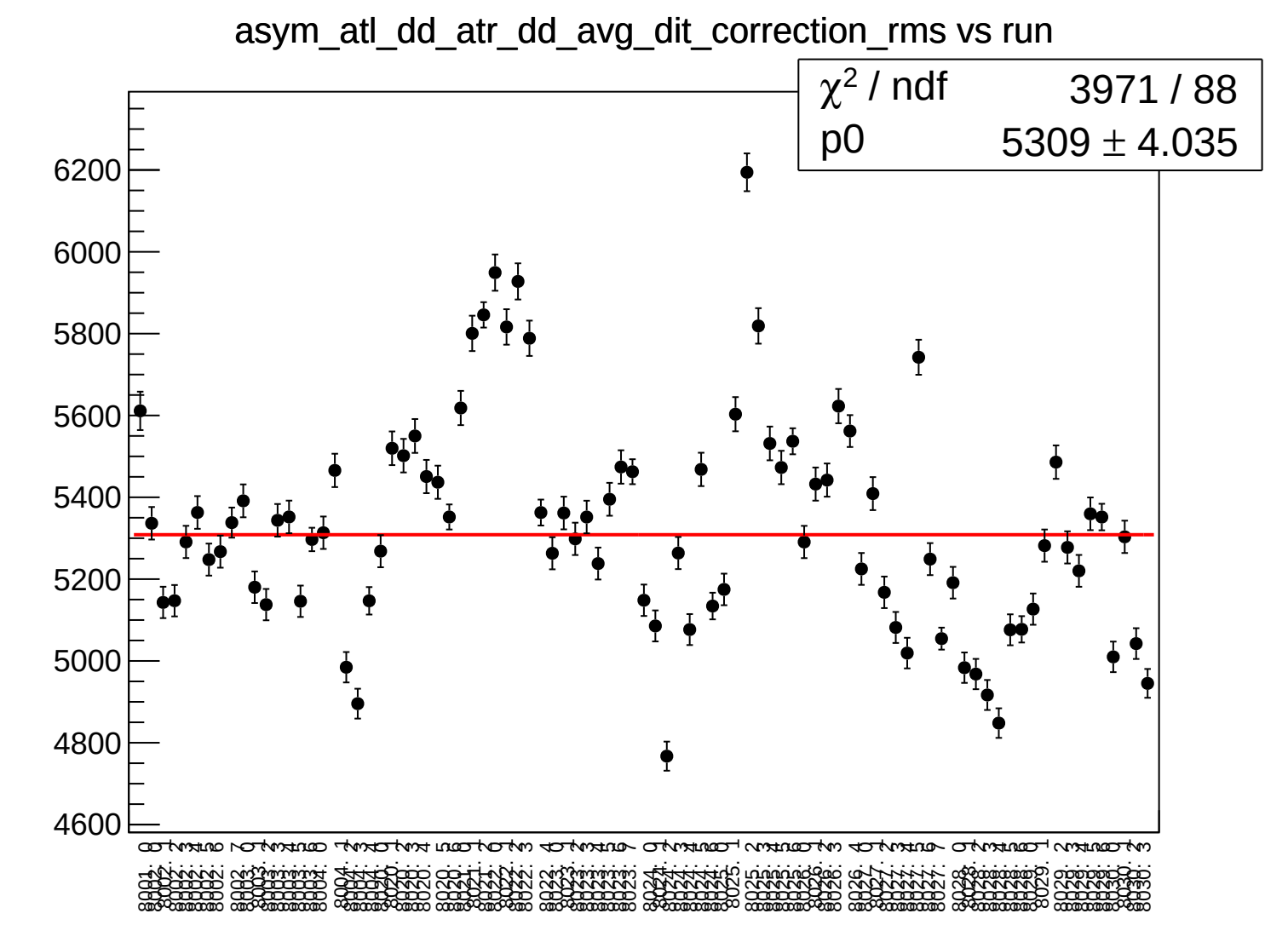

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 88.84 / 88
p0 −2296 ± 1390
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 5.021
Std Dev 72.47
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

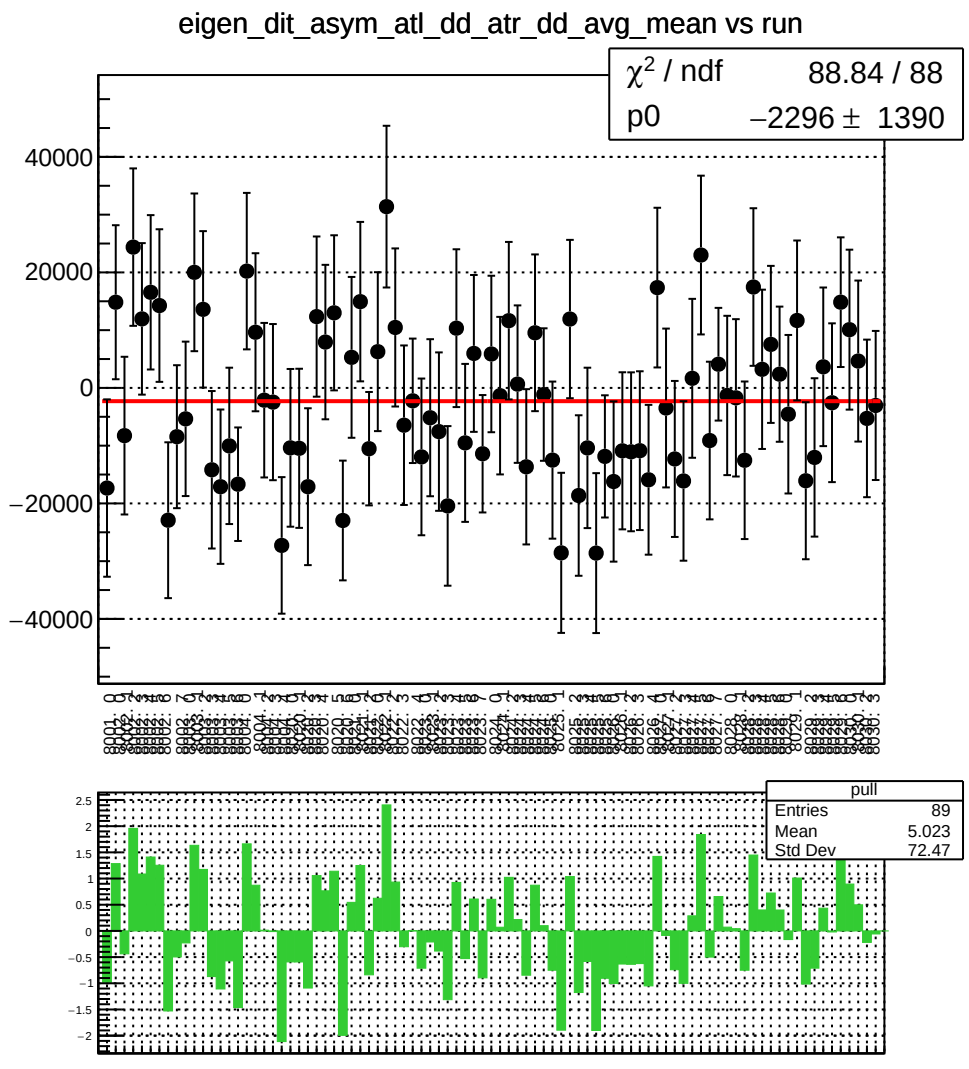

pull1D
Entries 89
Mean 0.0186
Std Dev 0.9989
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

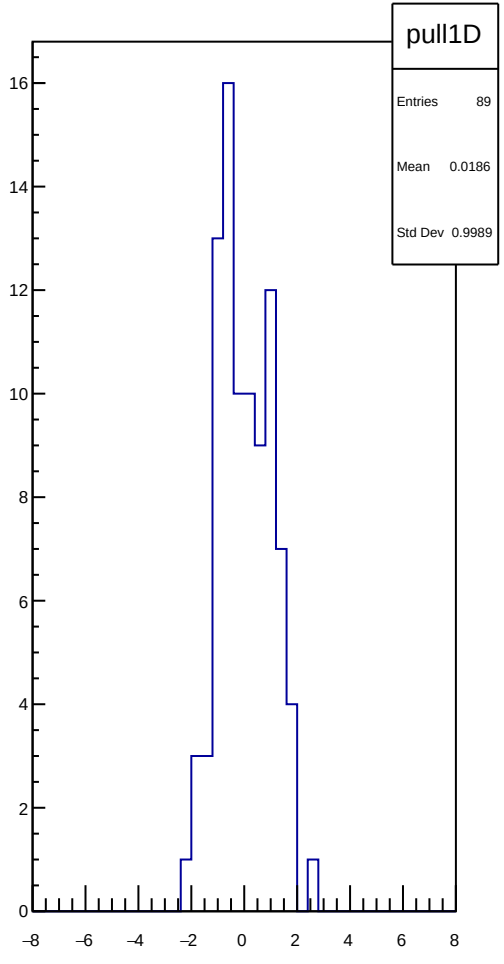

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 247.6 / 88
p0 1295 ± 0.9829
1340
1320
1300
1280
1260
1240

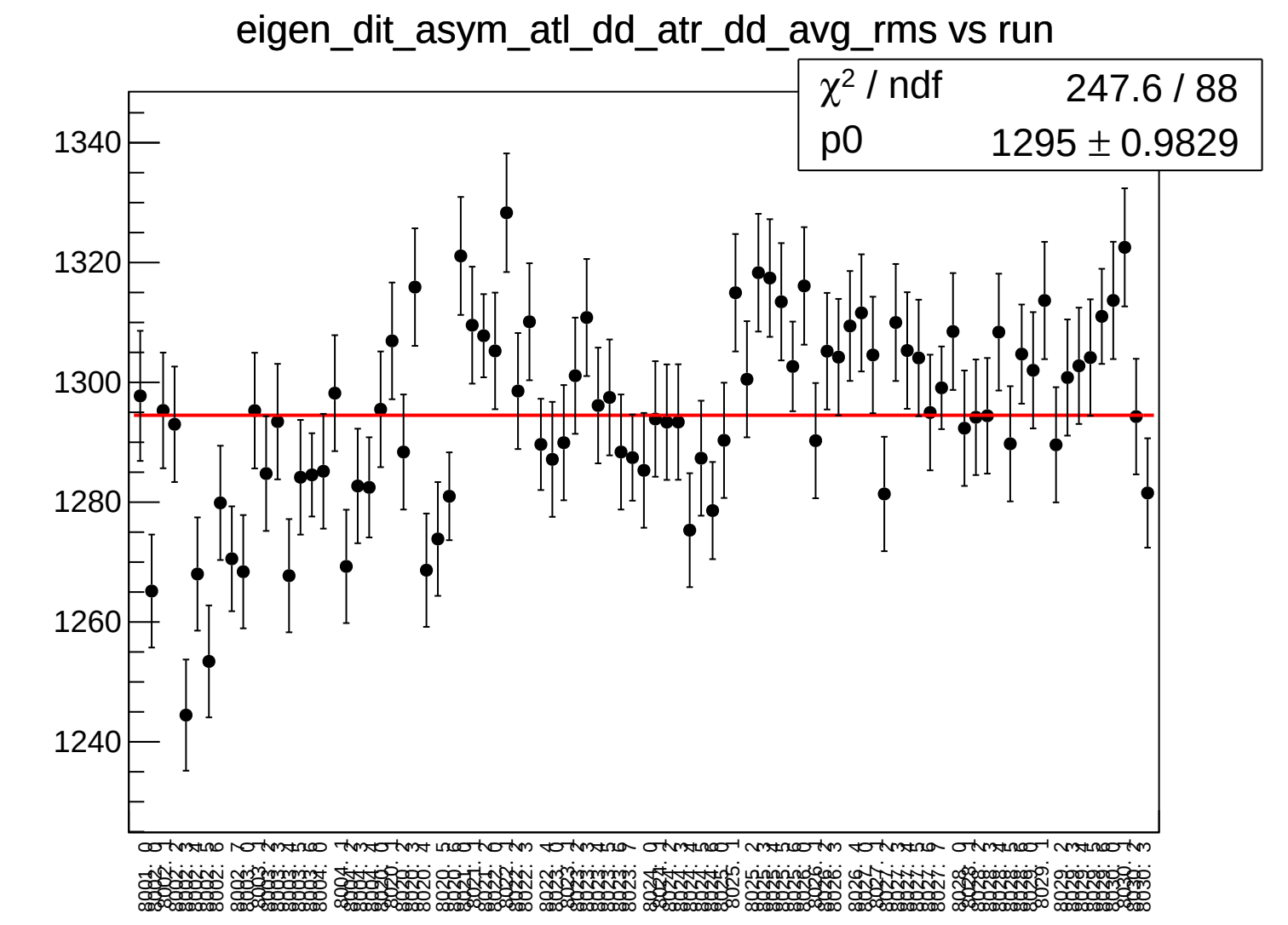

asym_atl_dd_atr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 96.85 / 88
p0 −700.2 ± 5707
pull
Entries 89
Mean 156.5
Std Dev 0

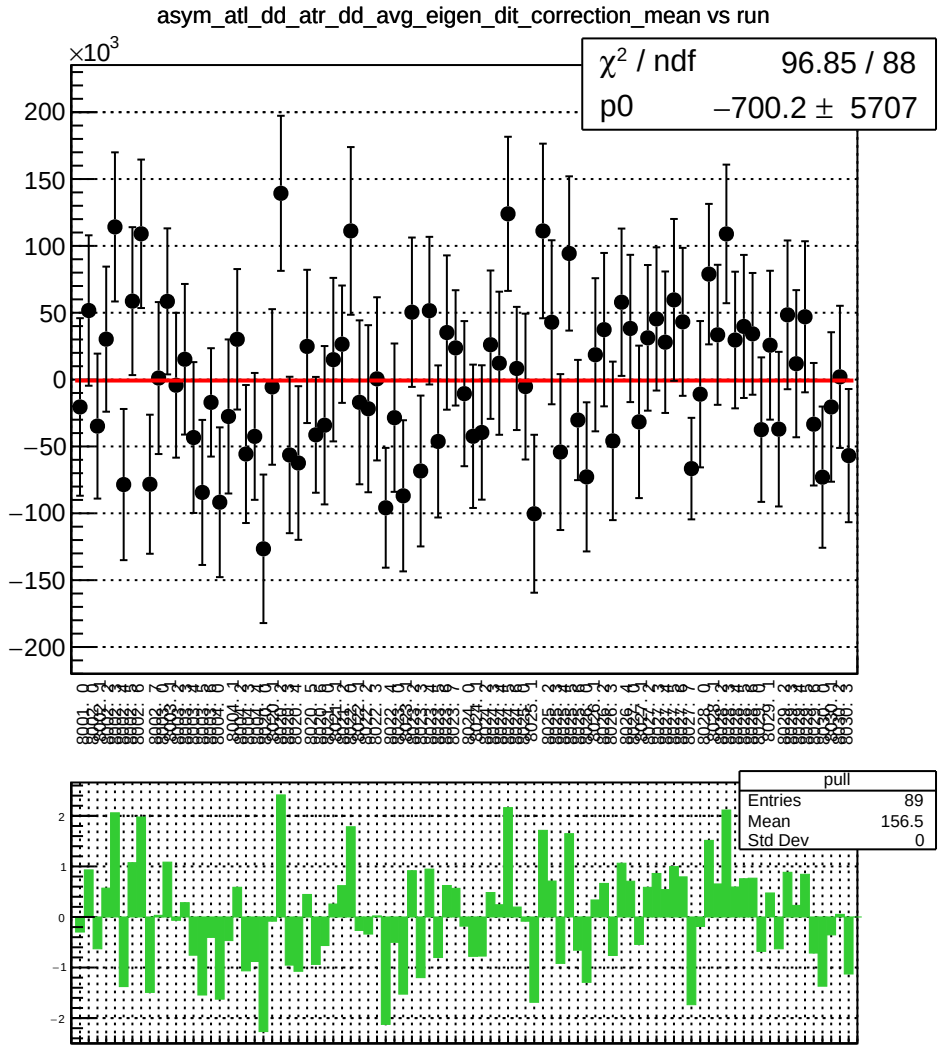

pull1D
Entries 89
Mean 0.02331
Std Dev 1.043

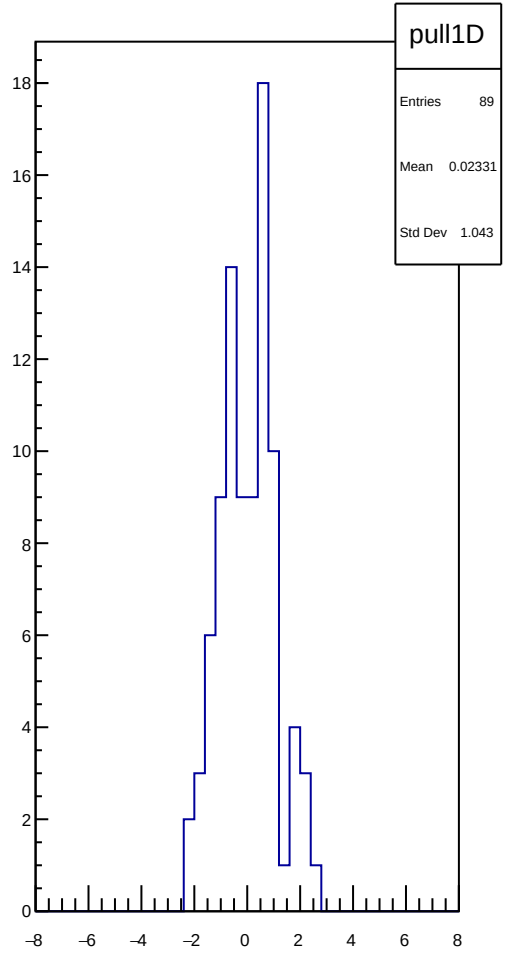

asym_atl_dd_atr_dd_avg_dit_correction_rms vs run
χ² / ndf 3971 / 88
p0 5309 ± 4.035
6200
6000
5800
5600
5400
5200
5000
4800
4600

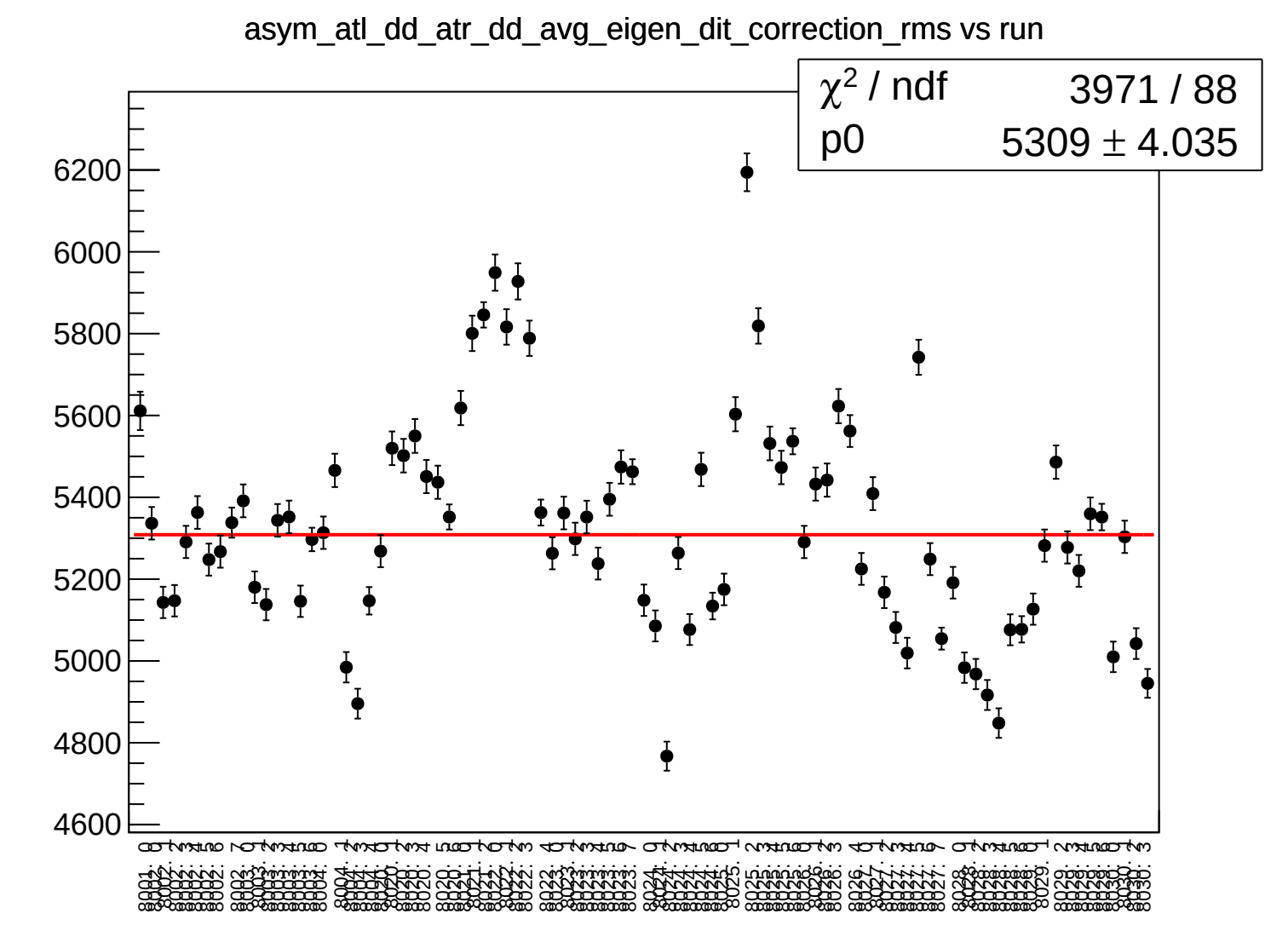

eigen_dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 88.84 / 88
p0 −2296 ± 1390
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 5.023
Std Dev 72.47
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

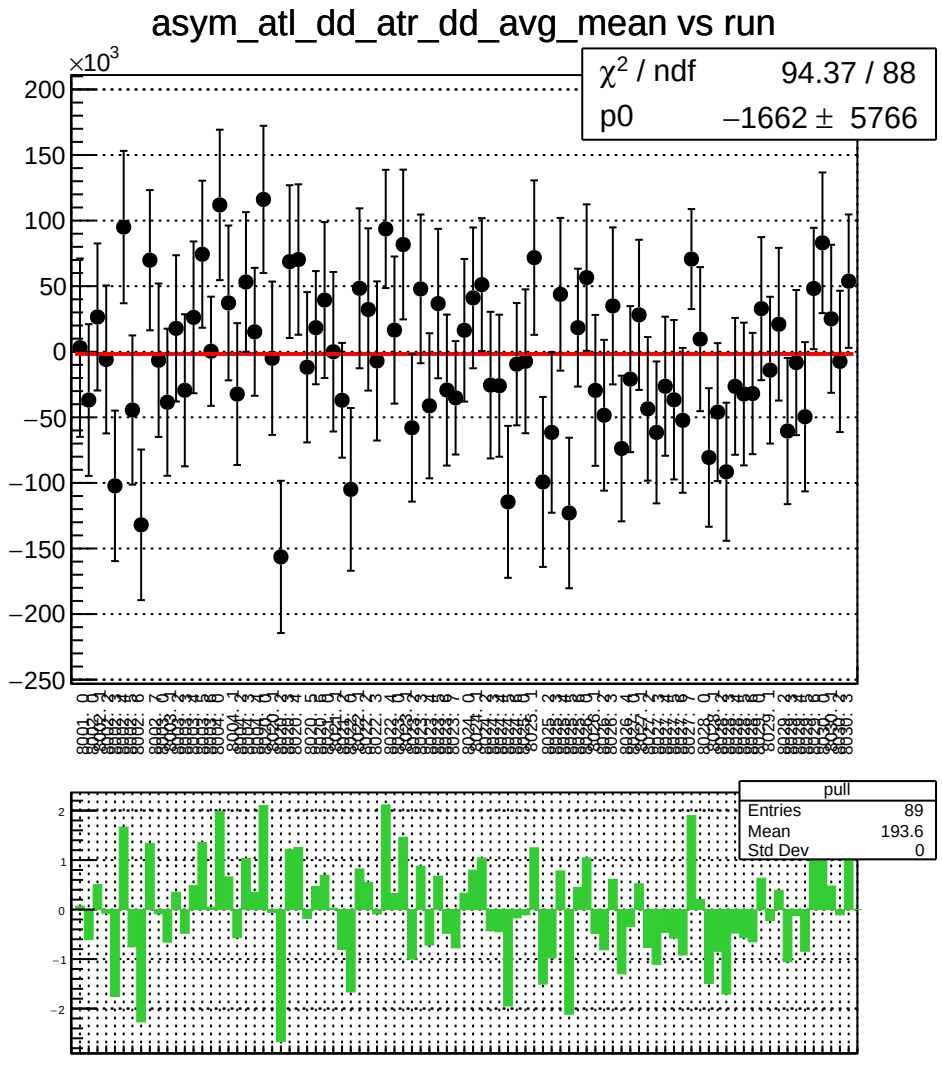

pull1D
Entries 89
Mean 0.0186
Std Dev 0.9989
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

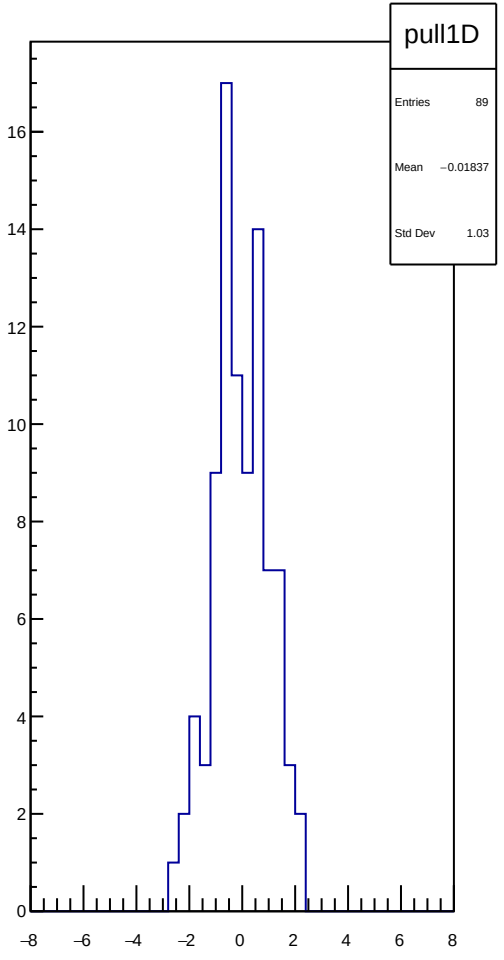

eigen_dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 247.6 / 88
p0 1295 ± 0.9829
1340
1320
1300
1280
1260
1240

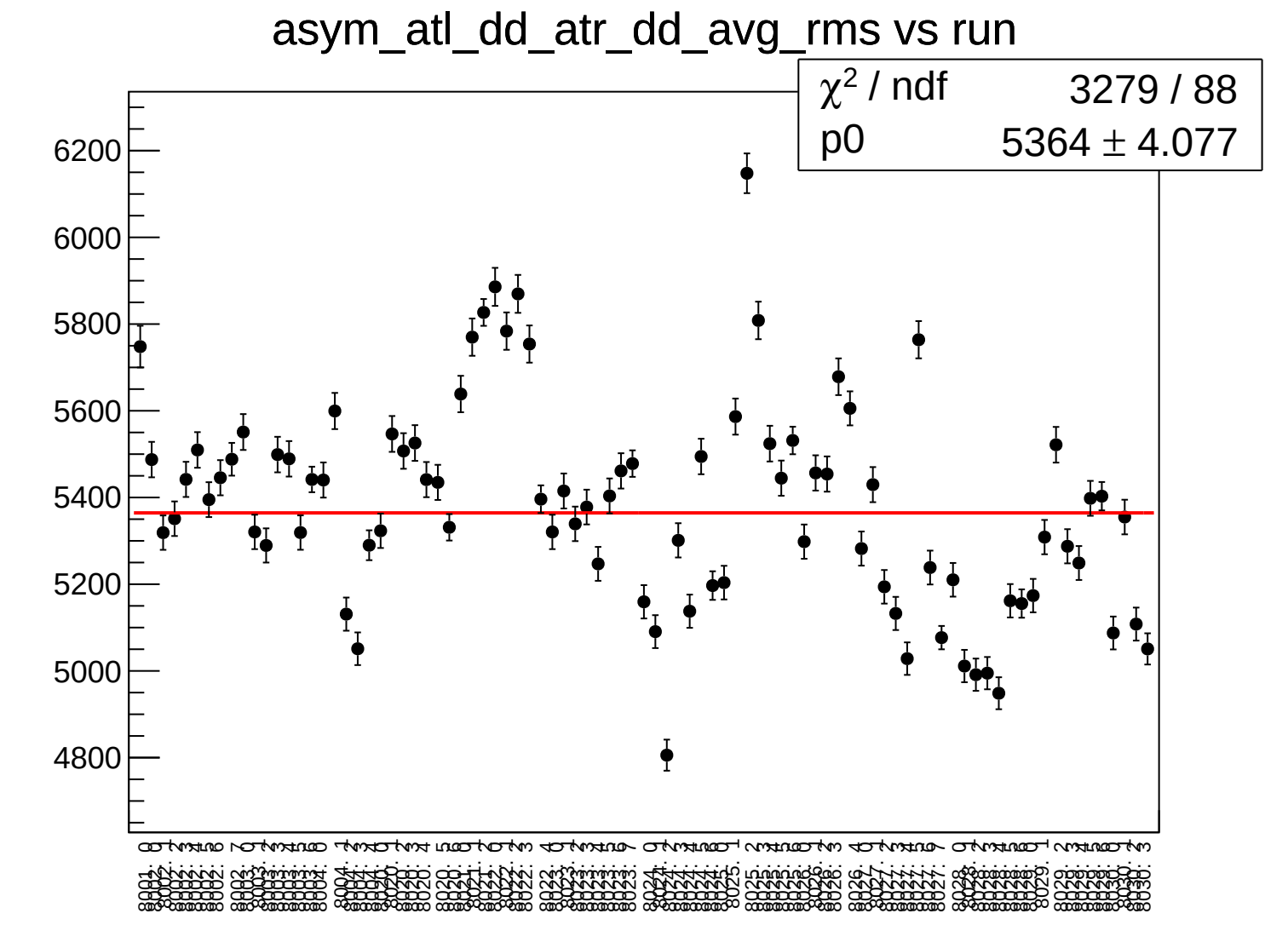

asym_atl_dd_atr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 96.85 / 88
p0 −700.2 ± 5707
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean 156.5
Std Dev 0
2
1
0
−1
−2

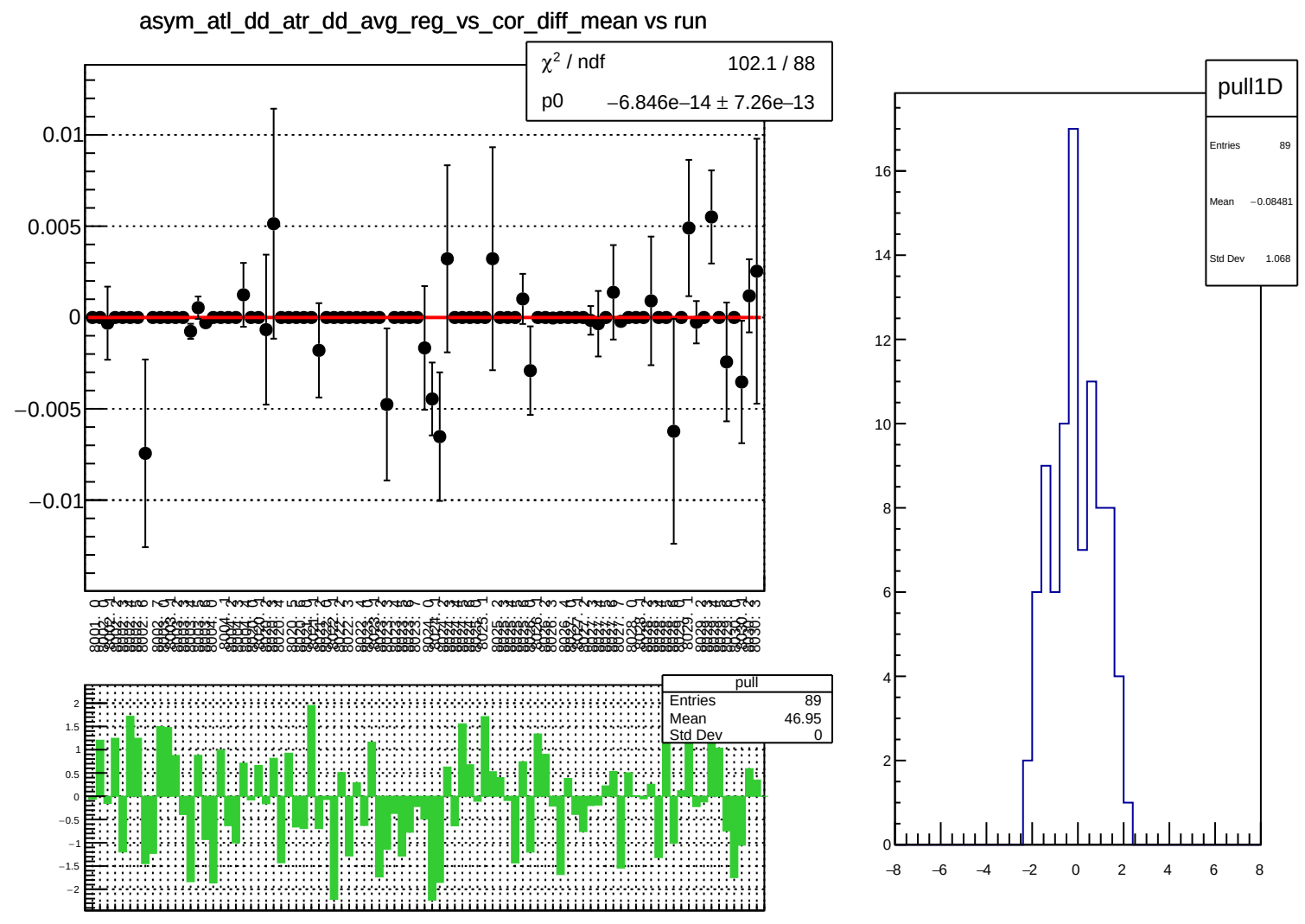

pull1D
Entries 89
Mean 0.02331
Std Dev 1.043
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

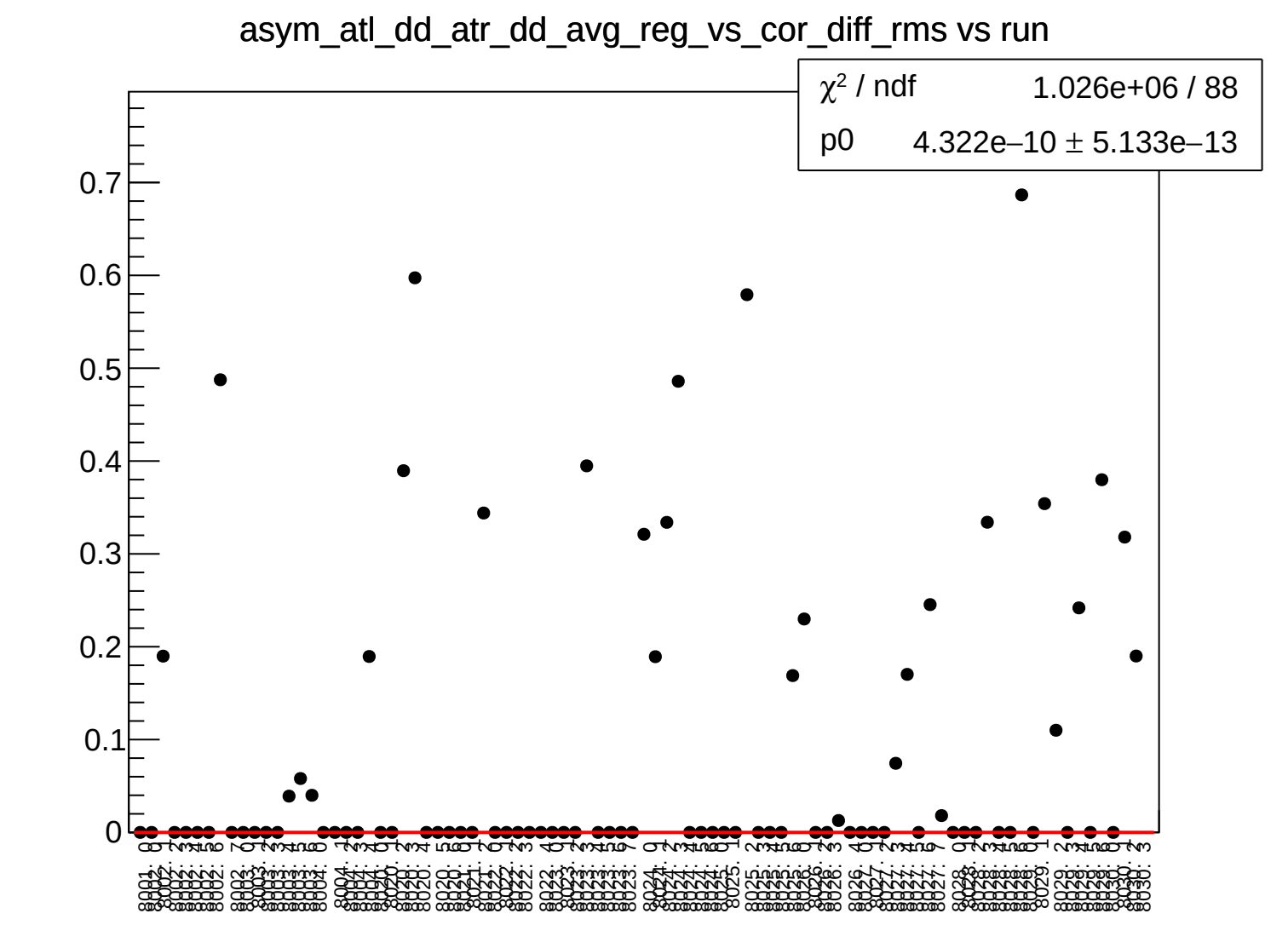

asym_atl_dd_atr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 3971 / 88
p0 5309 ± 4.035
6200
6000
5800
5600
5400
5200
5000
4800
4600

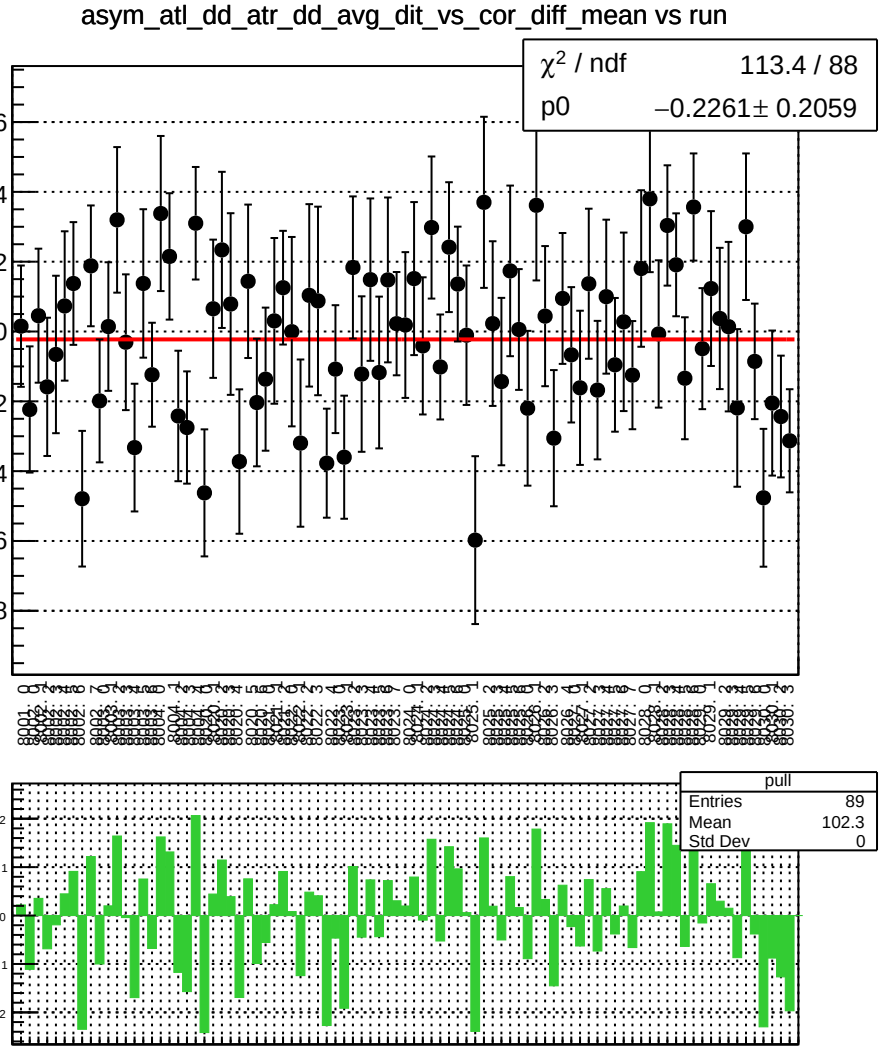

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 94.37 / 88
p0 −1662 ± 5766
pull
Entries 89
Mean 193.6
Std Dev 0

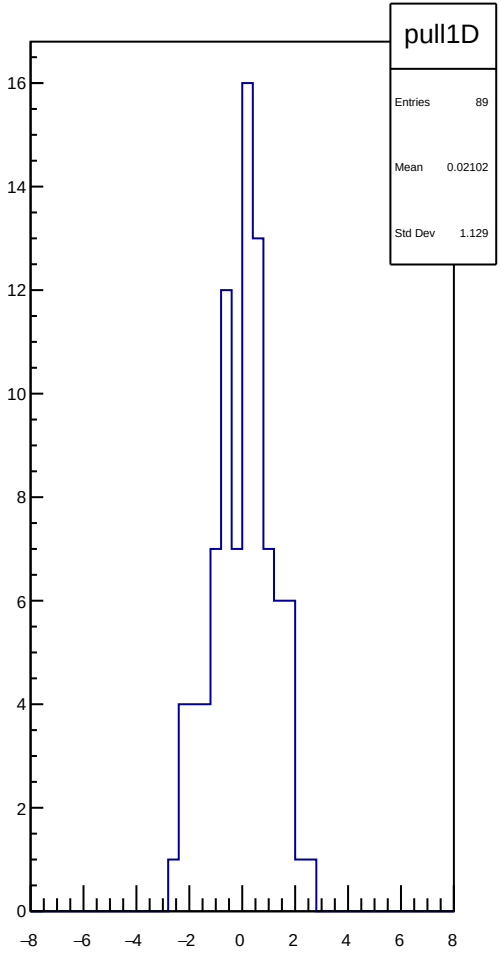

pull1D
Entries 89
Mean −0.01837
Std Dev 1.03

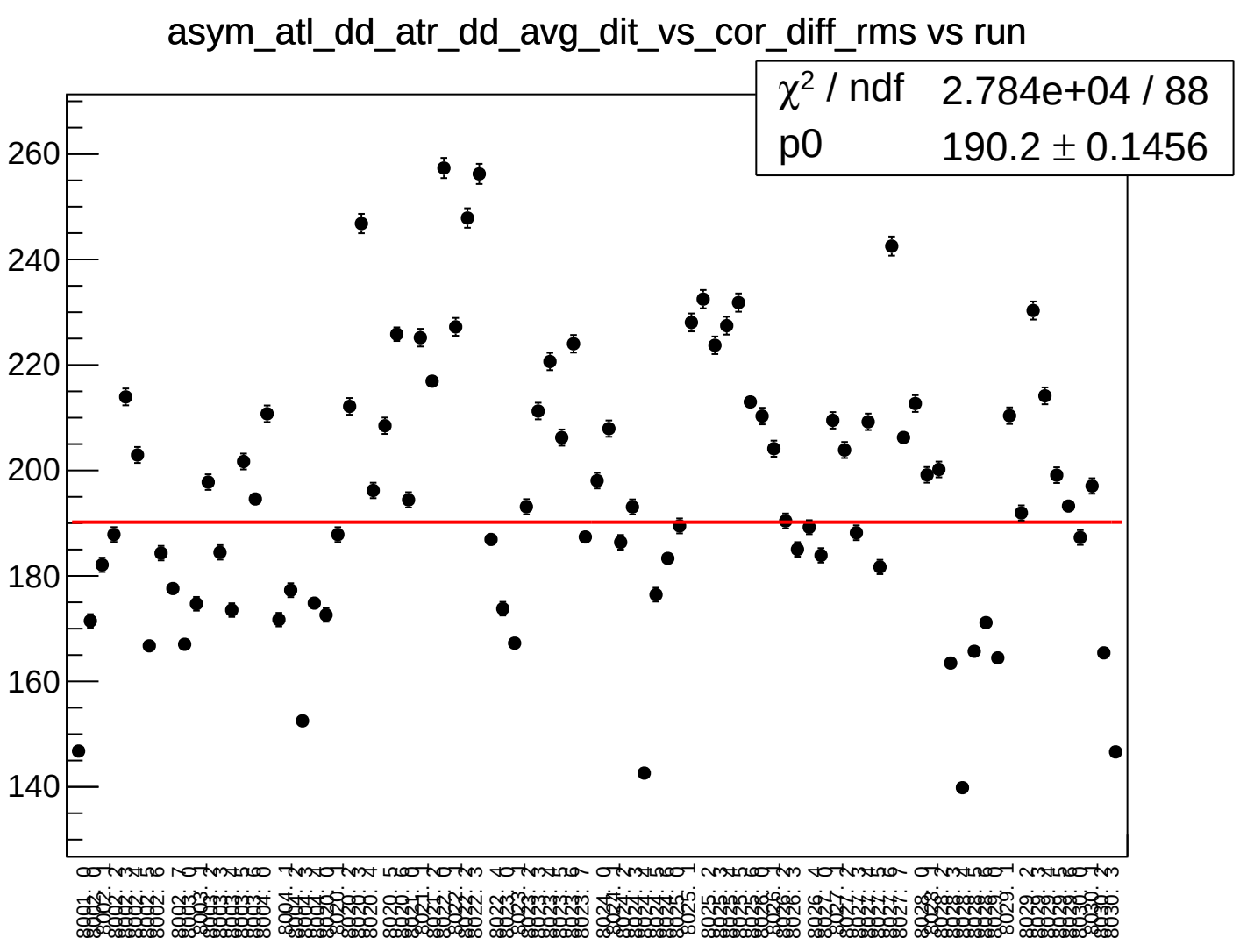

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 3279 / 88
p0 5364 ± 4.077
6200
6000
5800
5600
5400
5200
5000
4800

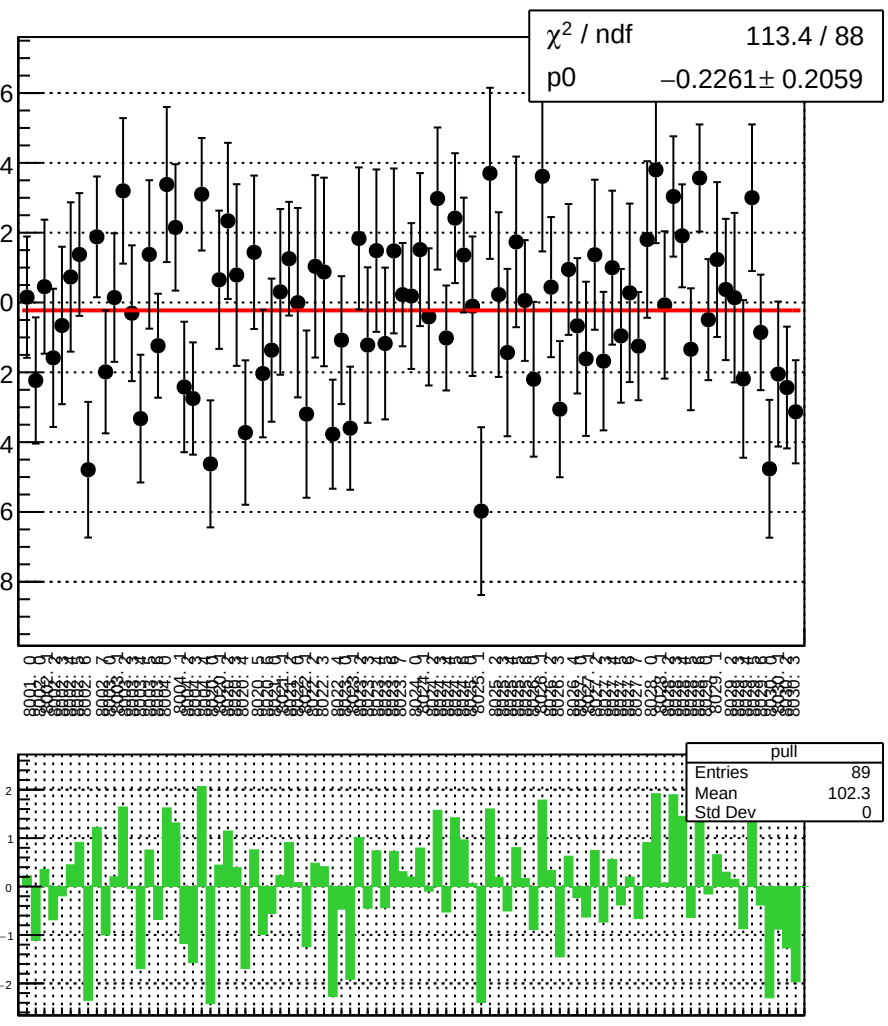

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 102.1 / 88
p0 −6.846e−14 ± 7.26e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 89
Mean 46.95
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean −0.08481
Std Dev 1.068
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

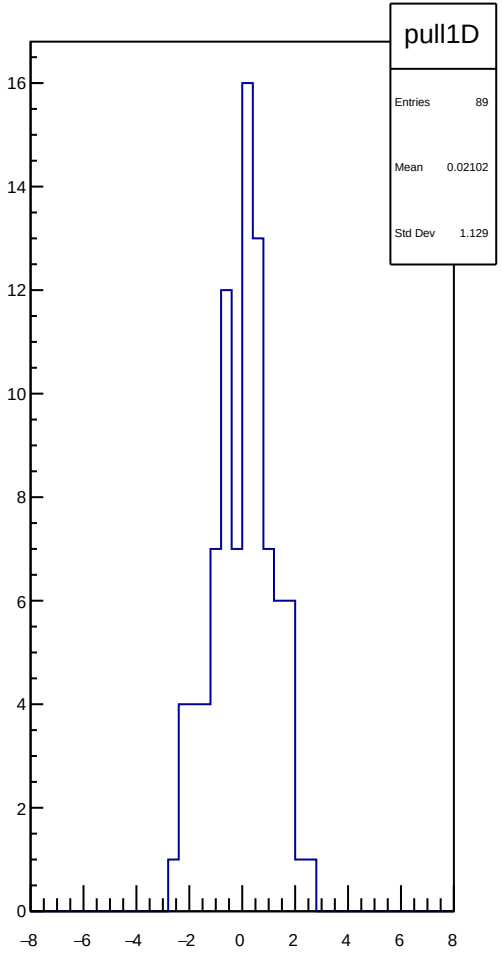

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.026e+06 / 88
p0 4.322e−10 ± 5.133e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

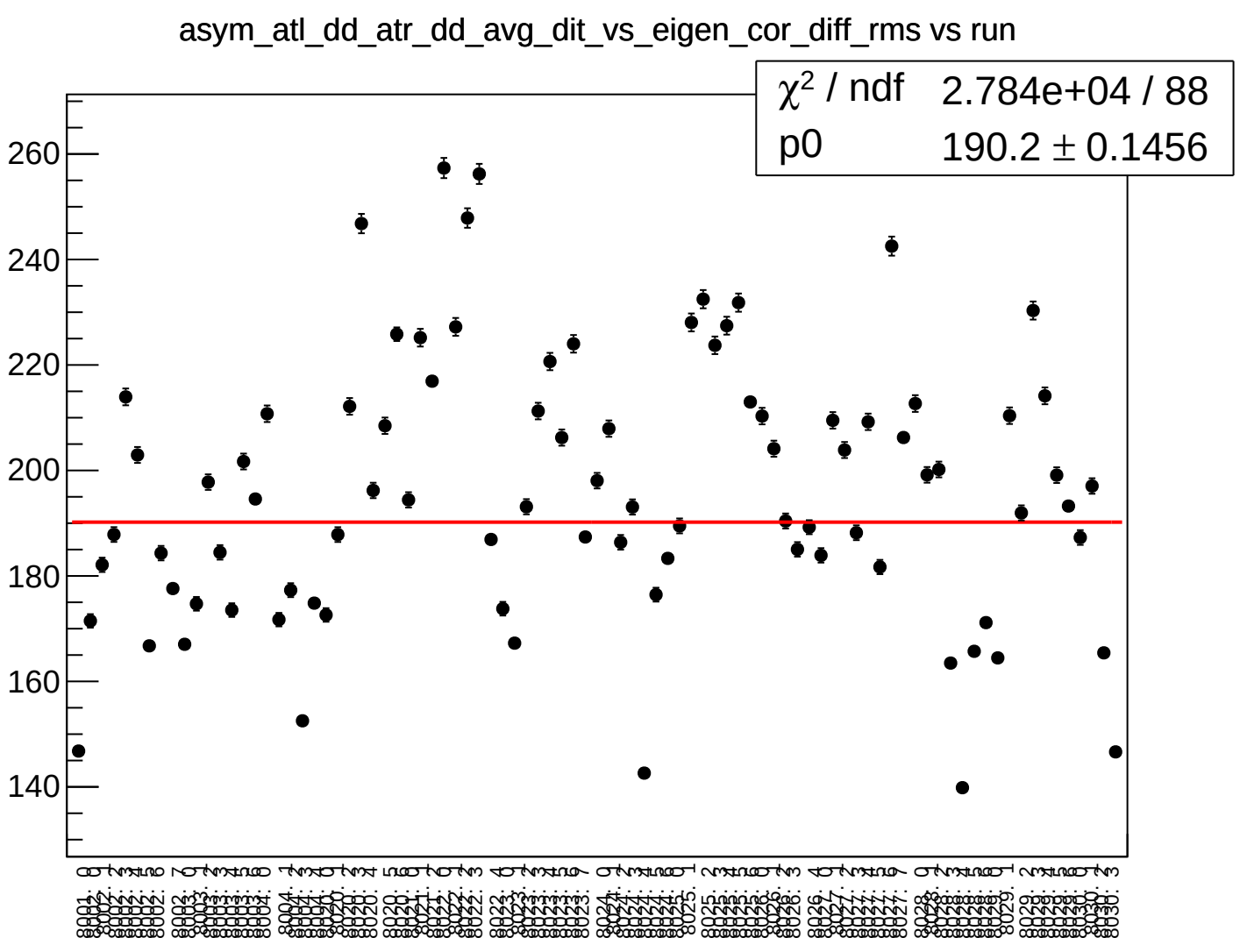

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 113.4 / 88
p0 −0.2261± 0.2059
pull
Entries 89
Mean 102.3
Std Dev 0

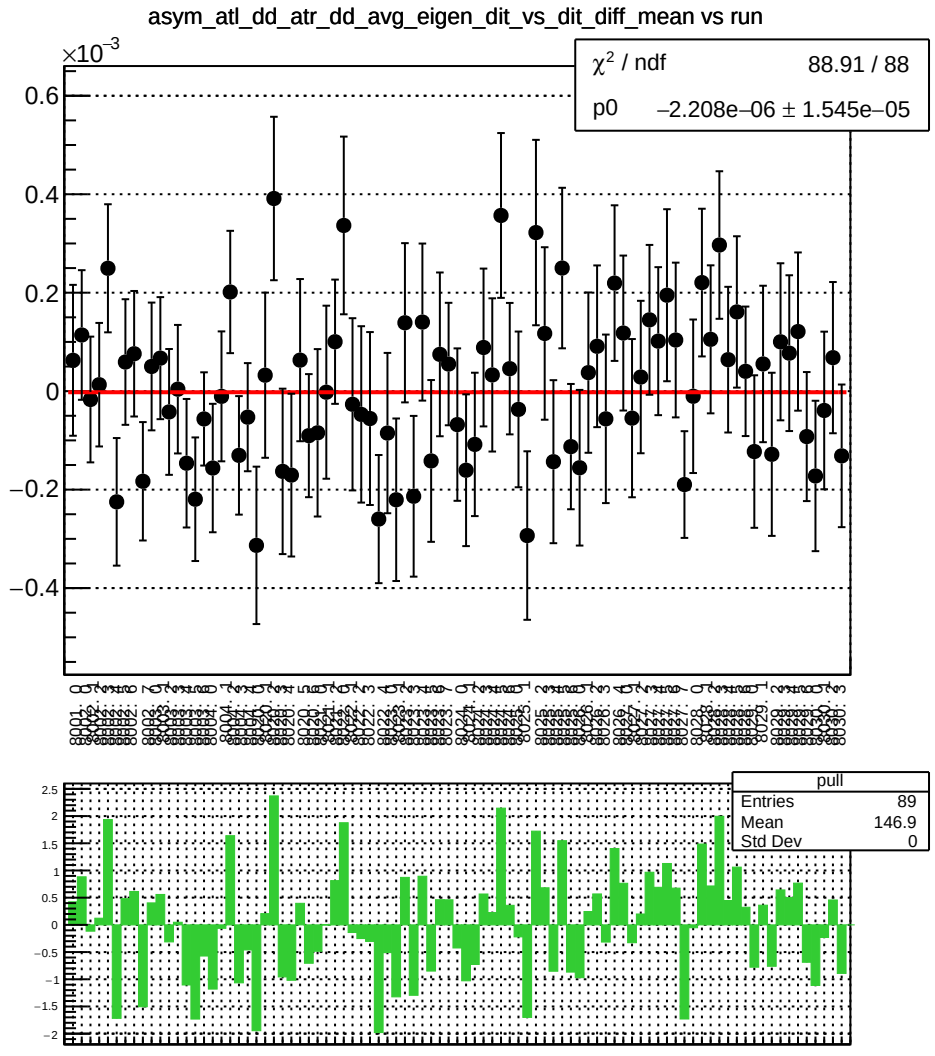

pull1D
Entries 89
Mean 0.02102
Std Dev 1.129

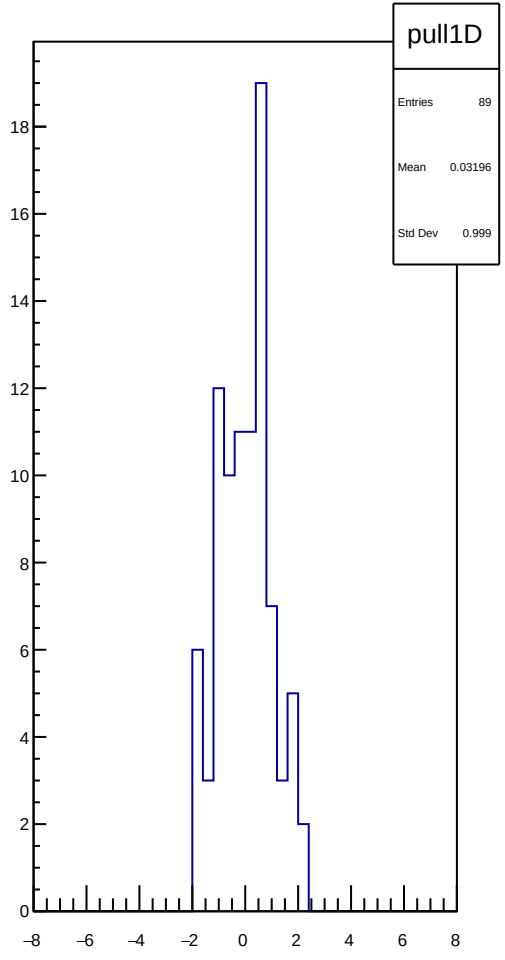

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.784e+04 / 88
p0 190.2 ± 0.1456
260
240
220
200
180
160
140

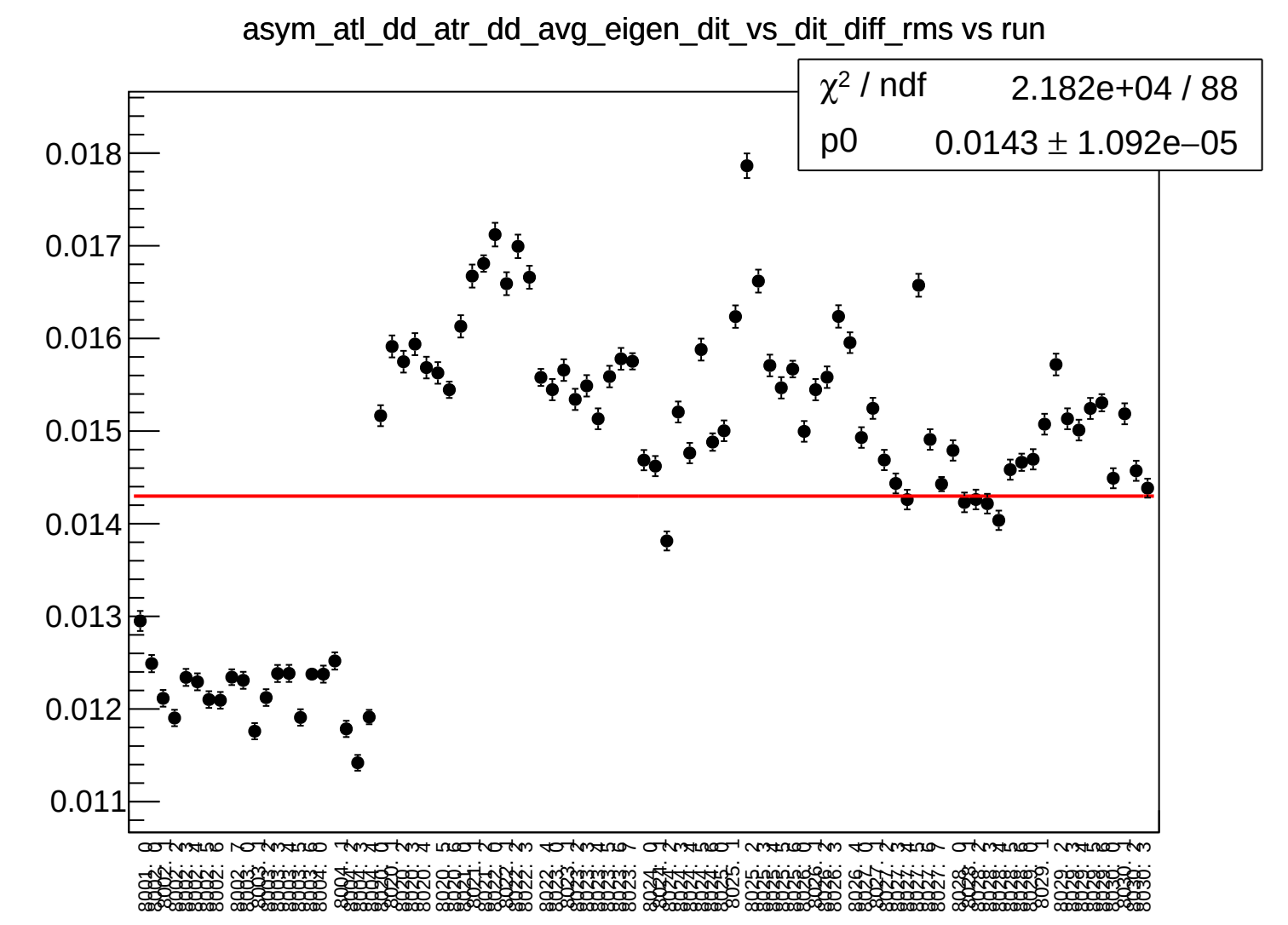

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 113.4 / 88
p0 −0.2261± 0.2059
pull
Entries 89
Mean 102.3
Std Dev 0

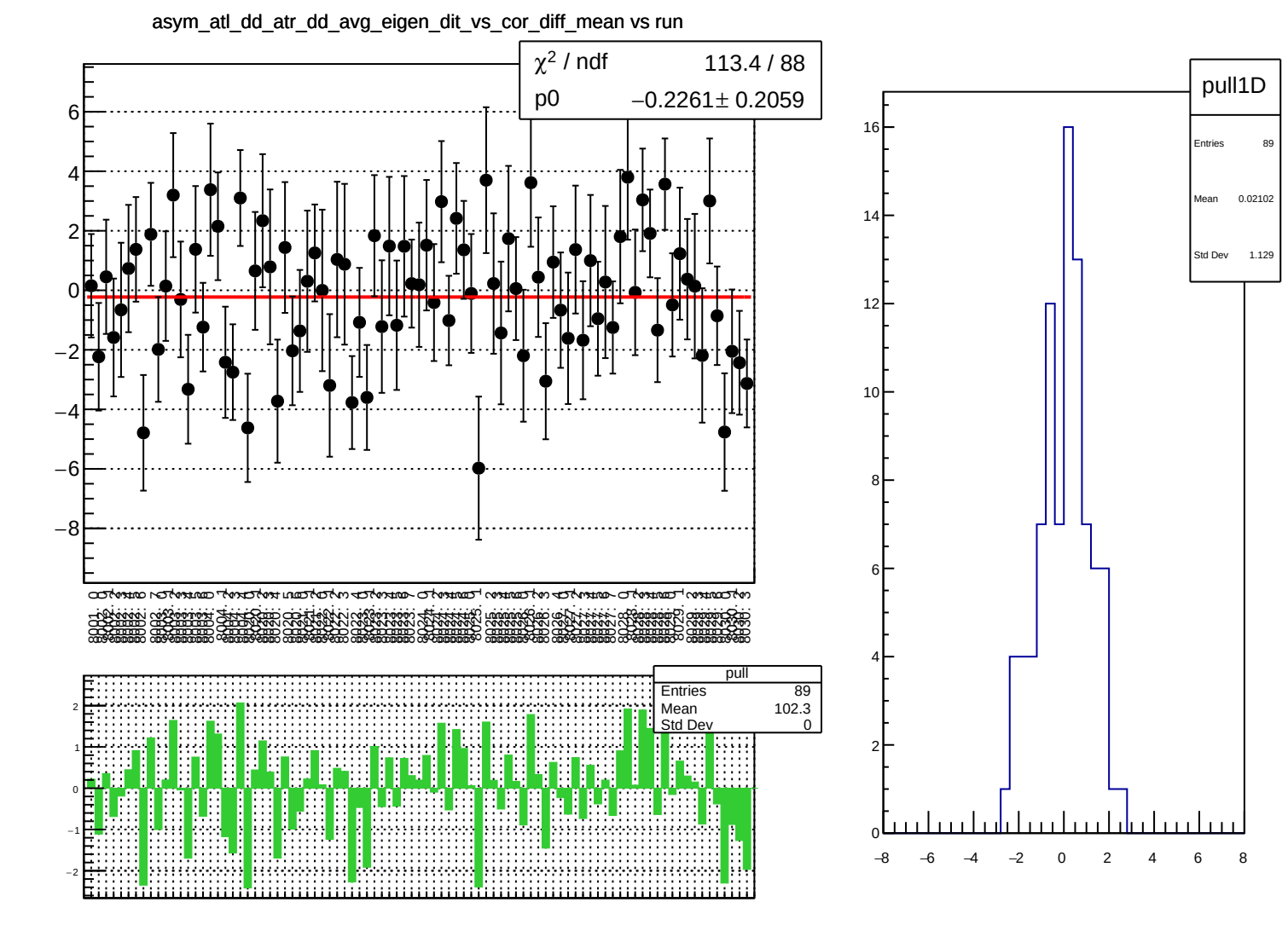

pull1D
Entries 89
Mean 0.02102
Std Dev 1.129

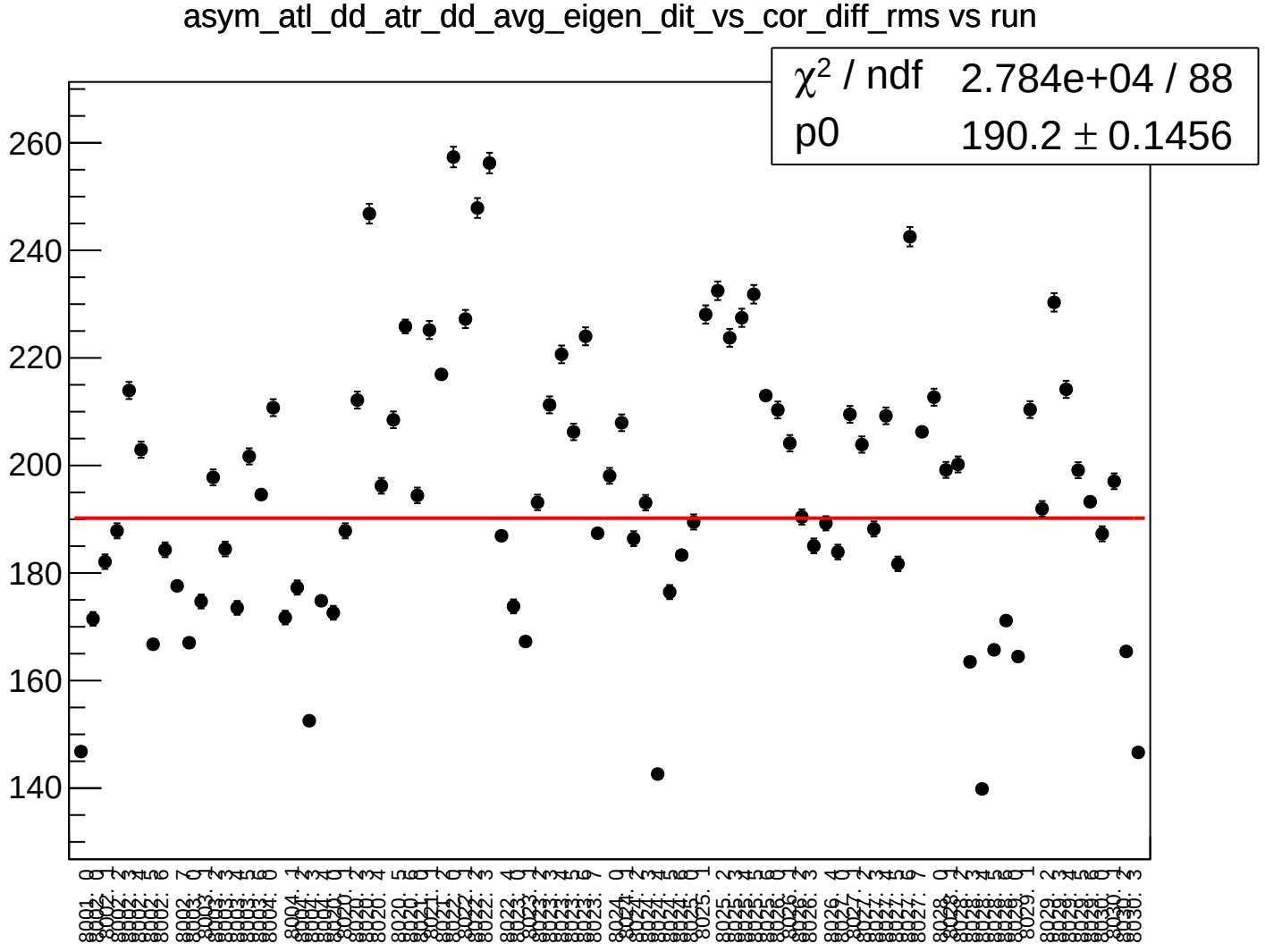

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.784e+04 / 88
p0 190.2 ± 0.1456
260
240
220
200
180
160
140

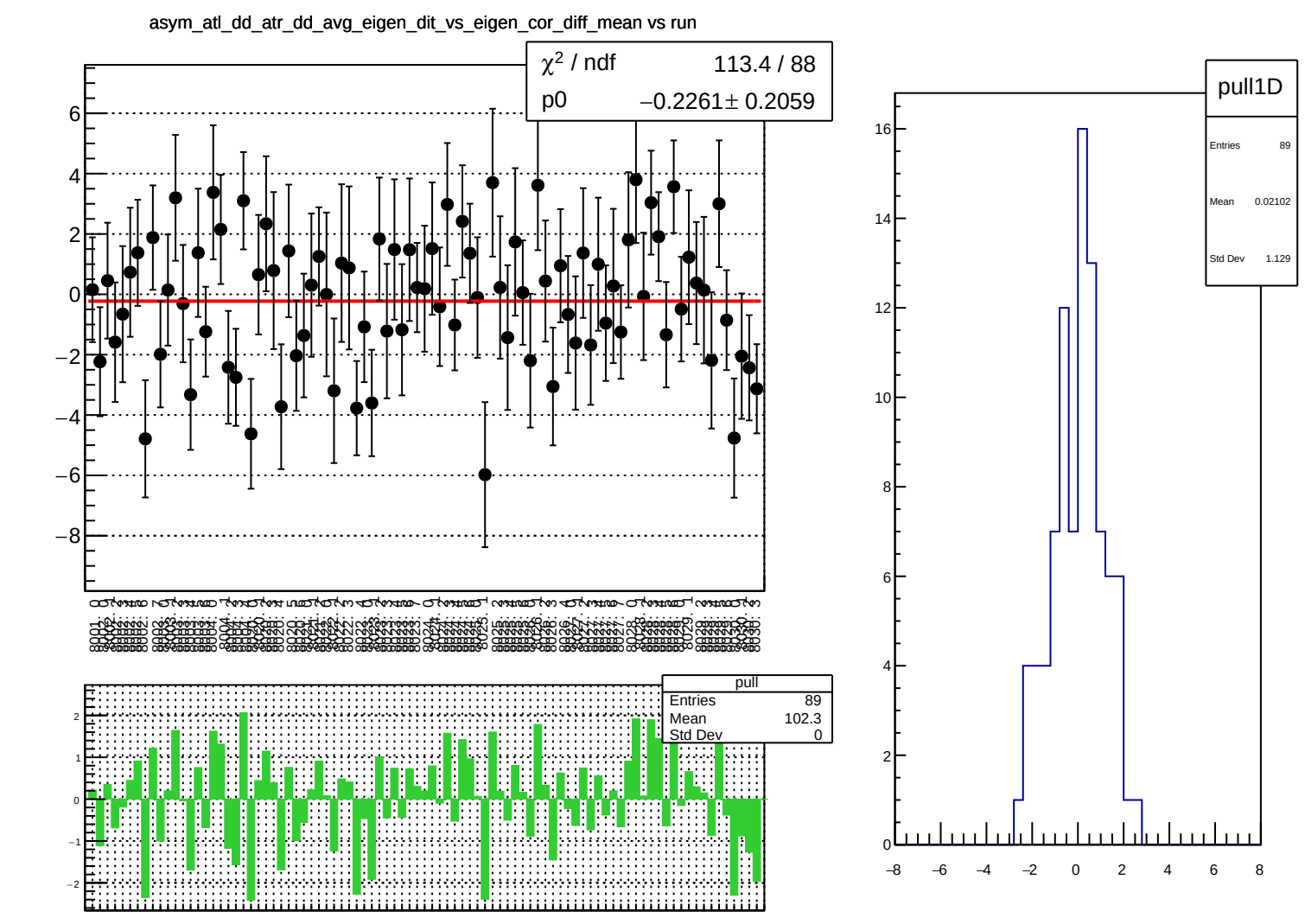

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.91 / 88
p0 −2.208e−06 ± 1.545e−05
pull
Entries 89
Mean 146.9
Std Dev 0

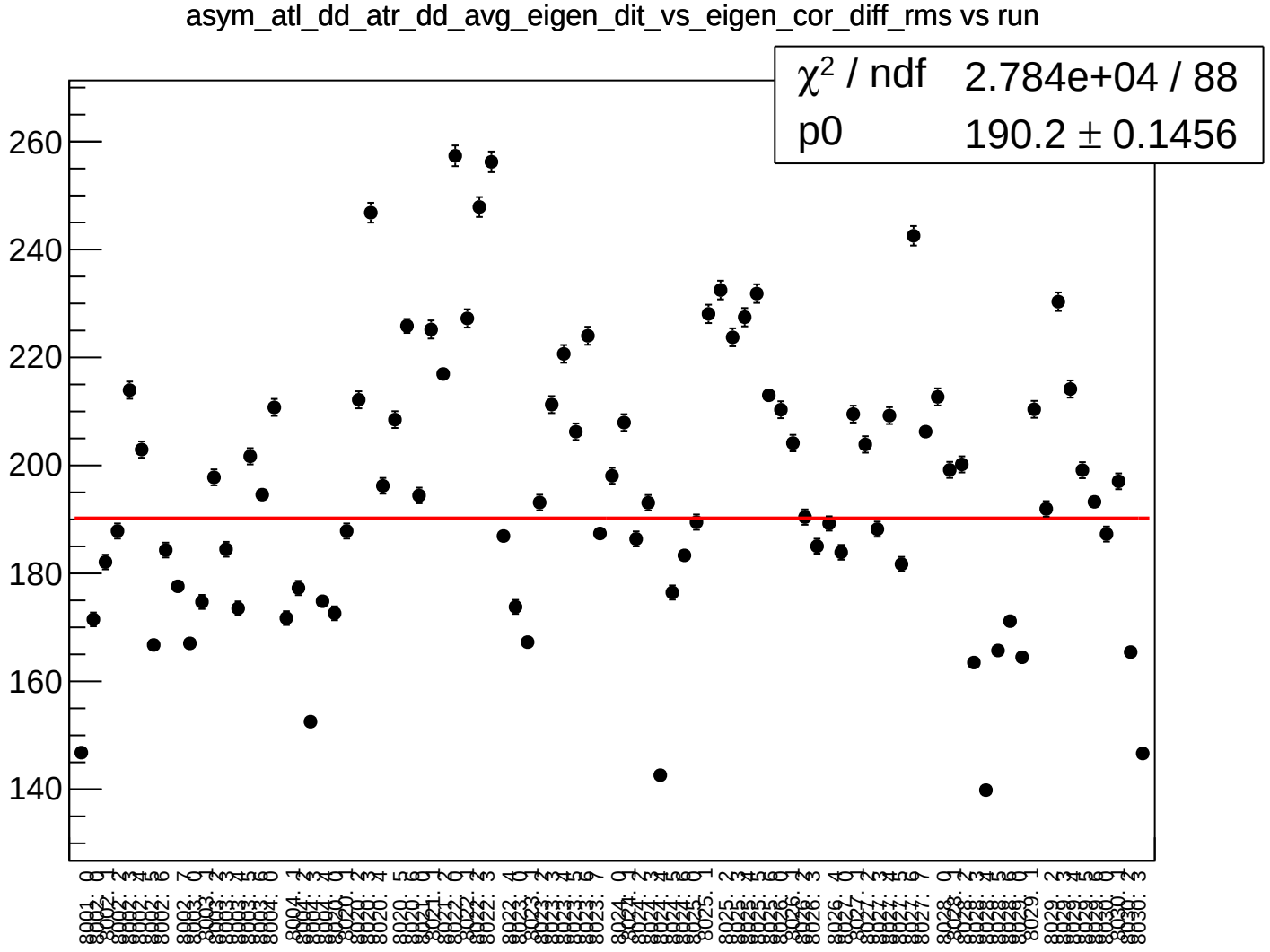

pull1D
Entries 89
Mean 0.03196
Std Dev 0.999

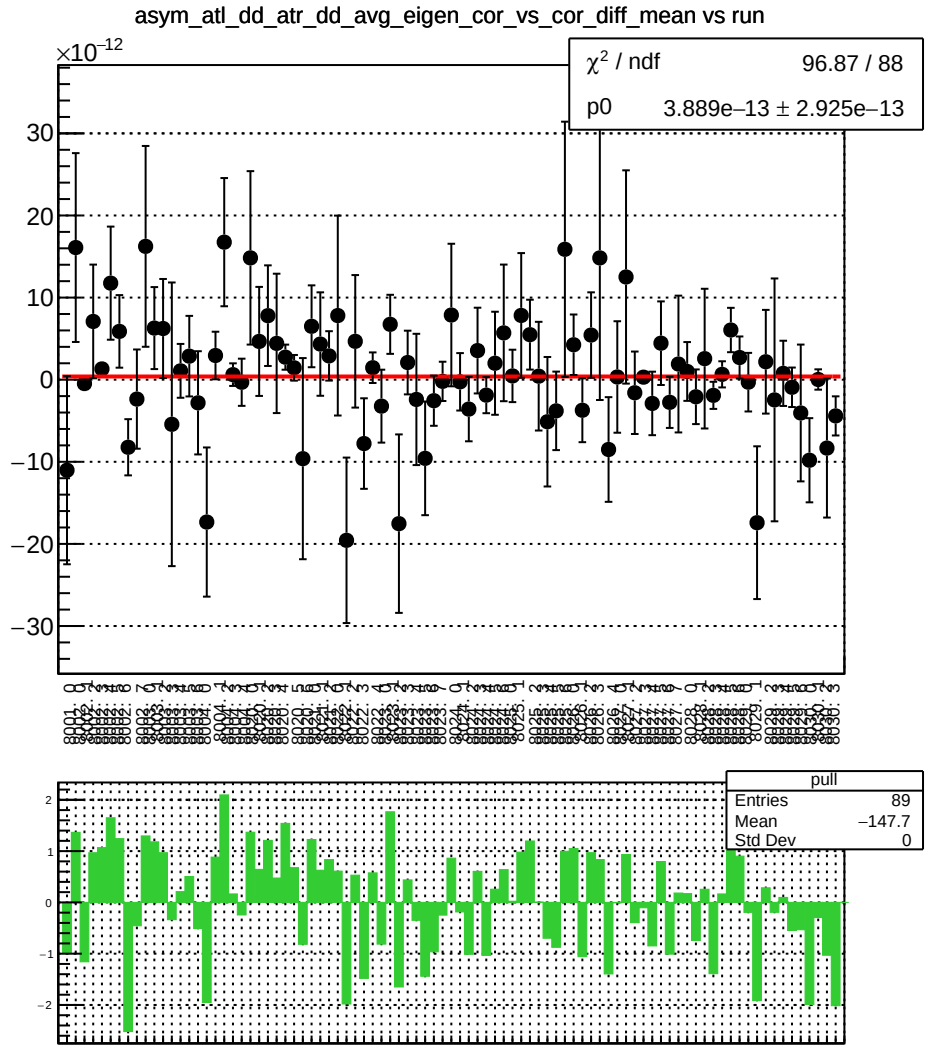

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.182e+04 / 88
p0 0.0143 ± 1.092e−05
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011

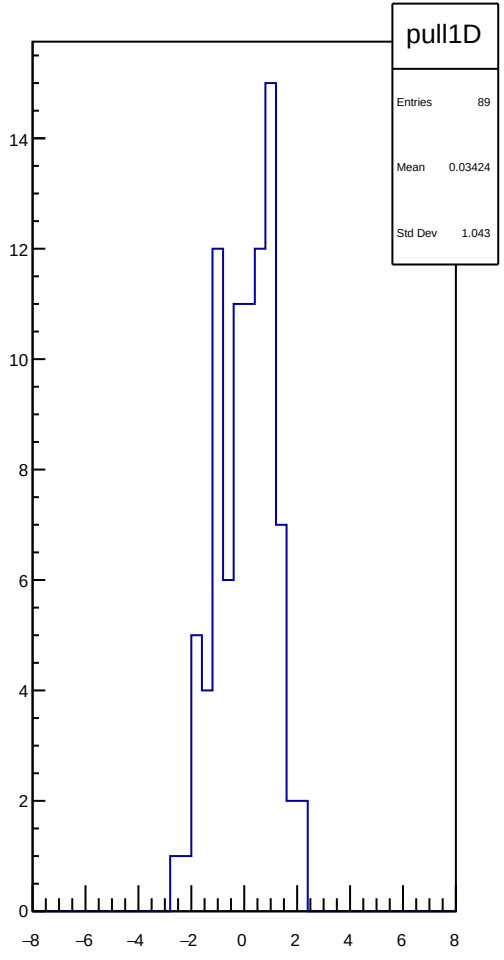

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 113.4 / 88
p0 −0.2261± 0.2059
pull
Entries 89
Mean 102.3
Std Dev 0
pull1D
Entries 89
Mean 0.02102
Std Dev 1.129

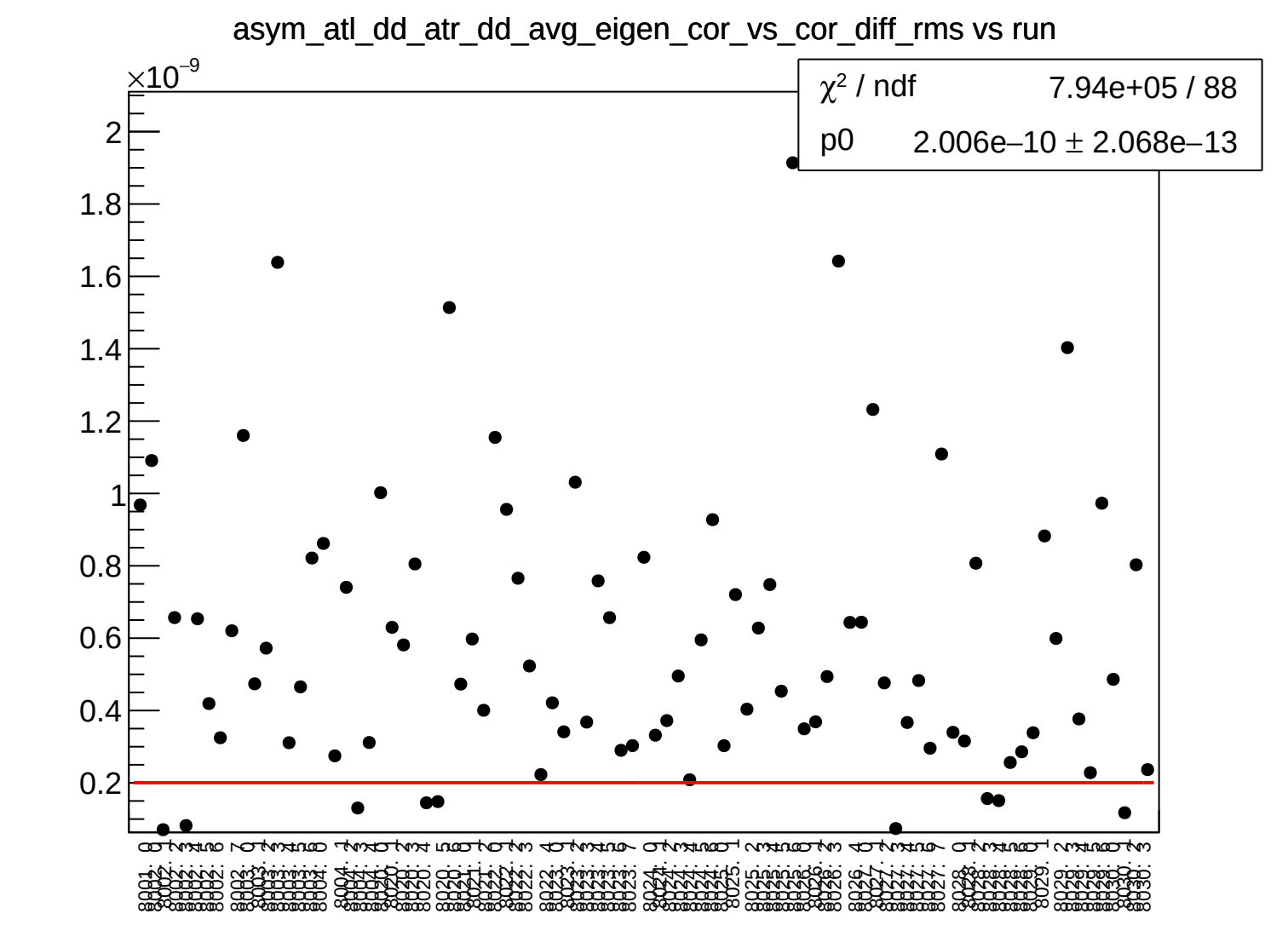

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.784e+04 / 88
p0 190.2 ± 0.1456
260
240
220
200
180
160
140

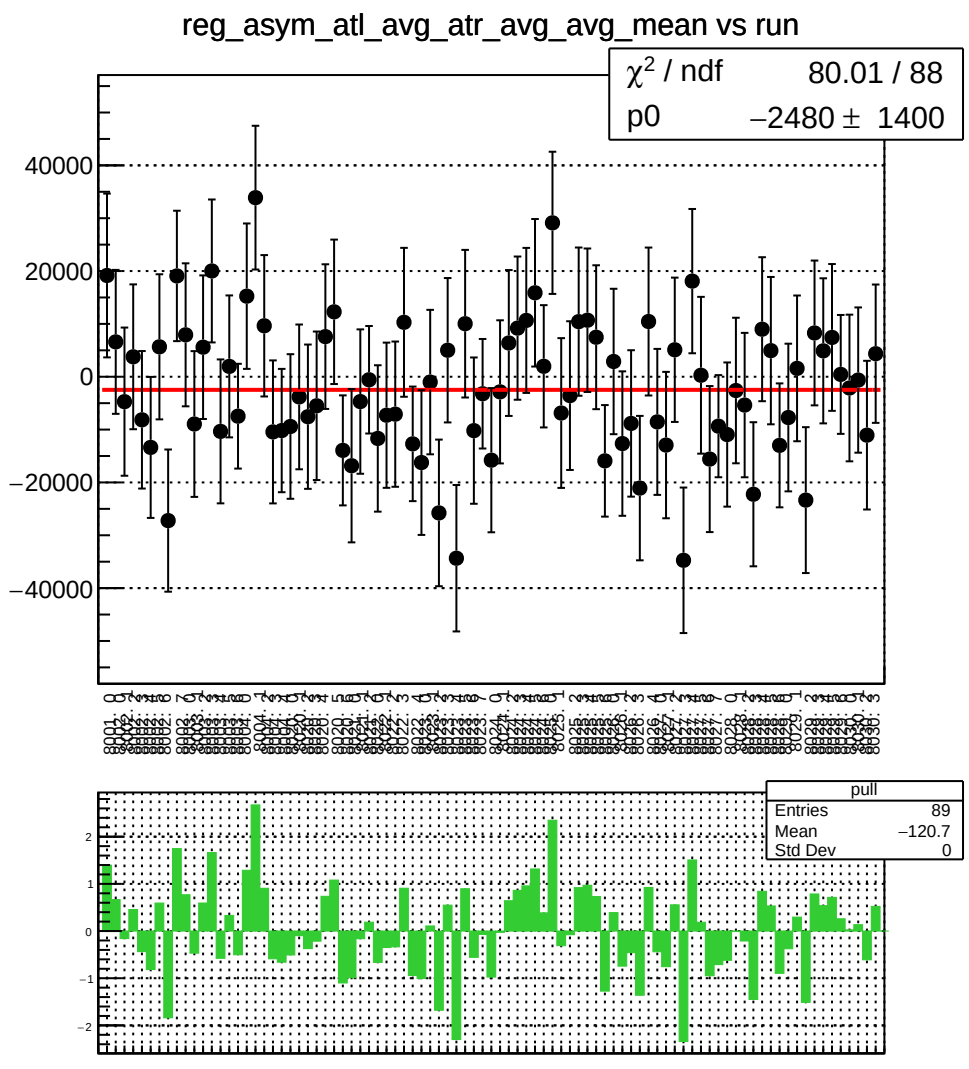

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 113.4 / 88
p0 −0.2261± 0.2059
pull
Entries 89
Mean 102.3
Std Dev 0
pull1D
Entries 89
Mean 0.02102
Std Dev 1.129

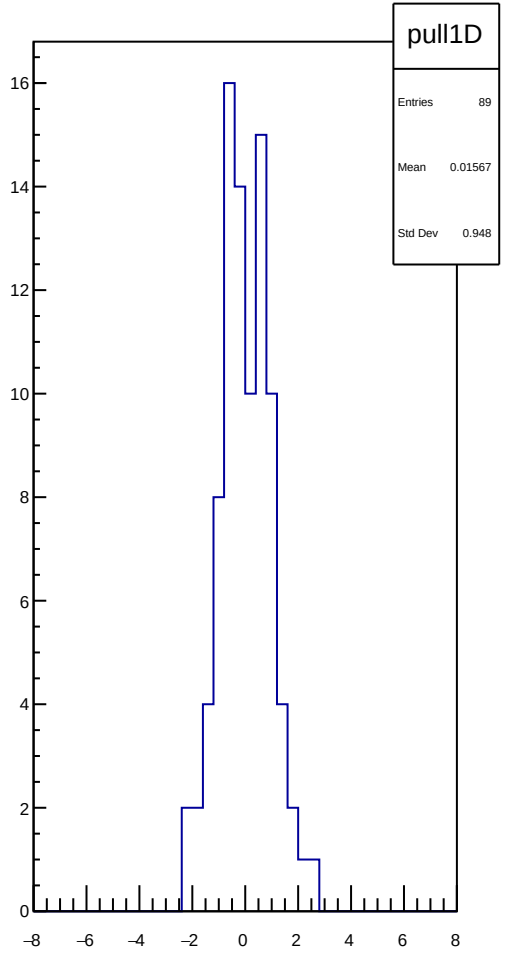

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.784e+04 / 88
p0 190.2 ± 0.1456
260
240
220
200
180
160
140

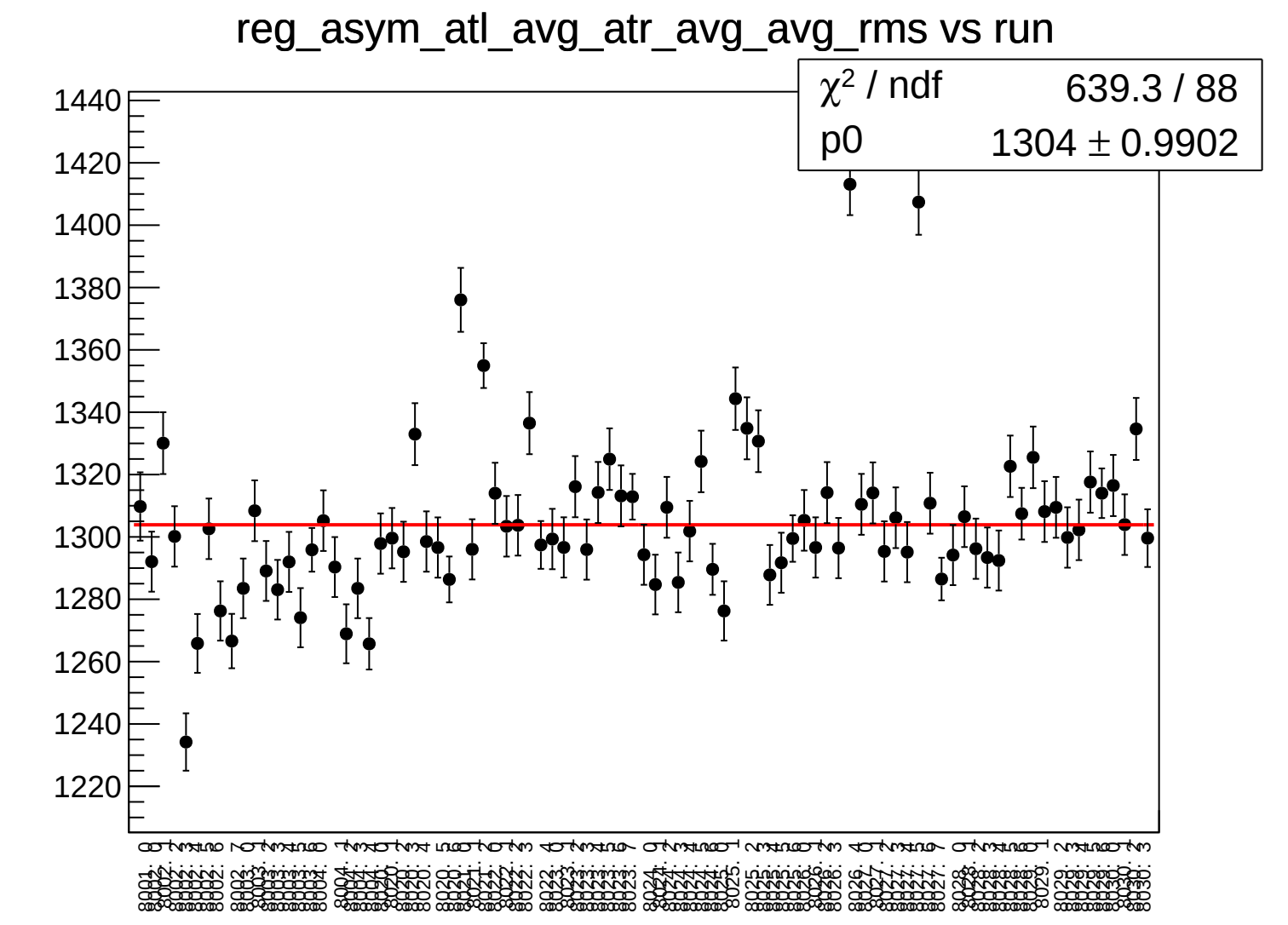

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.87 / 88
p0 3.889e−13 ± 2.925e−13
30
20
10
0
−10
−20
−30
pull
Entries 89
Mean −147.7
Std Dev 0
2
1
0
−1
−2

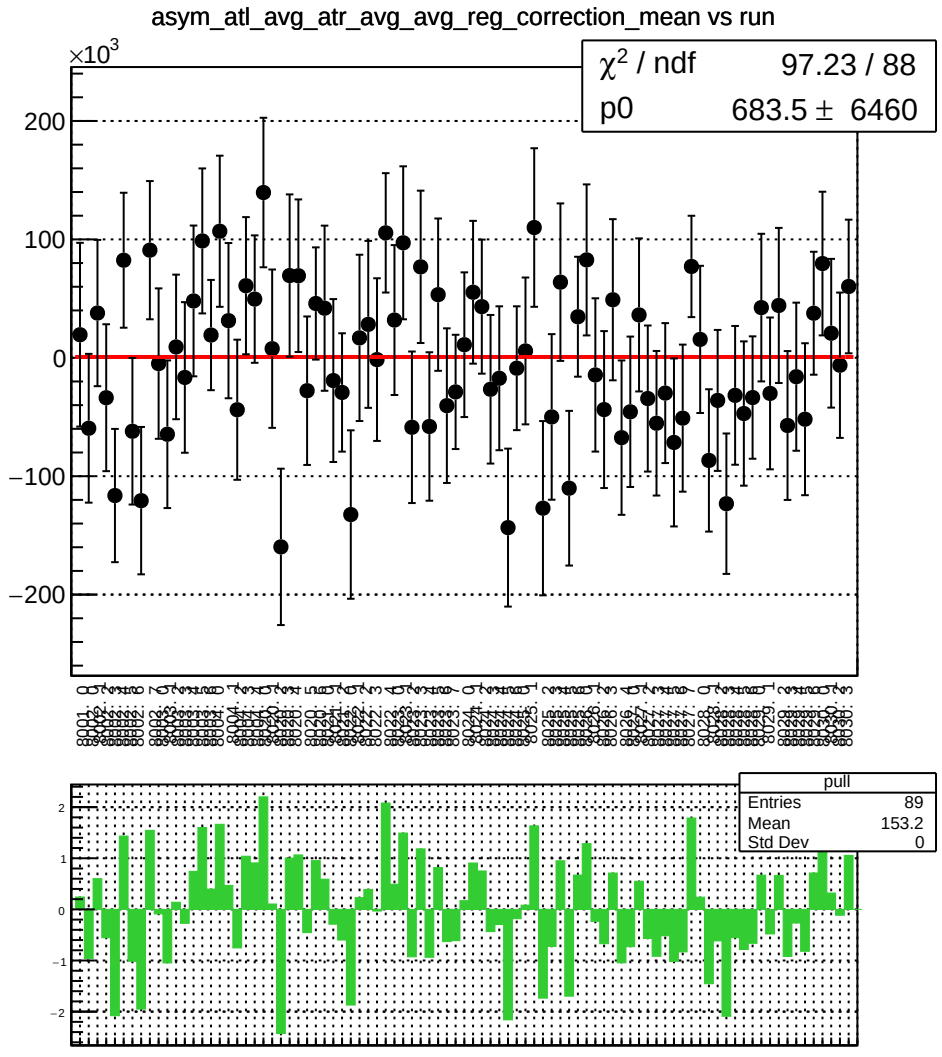

pull1D
Entries 89
Mean 0.03424
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

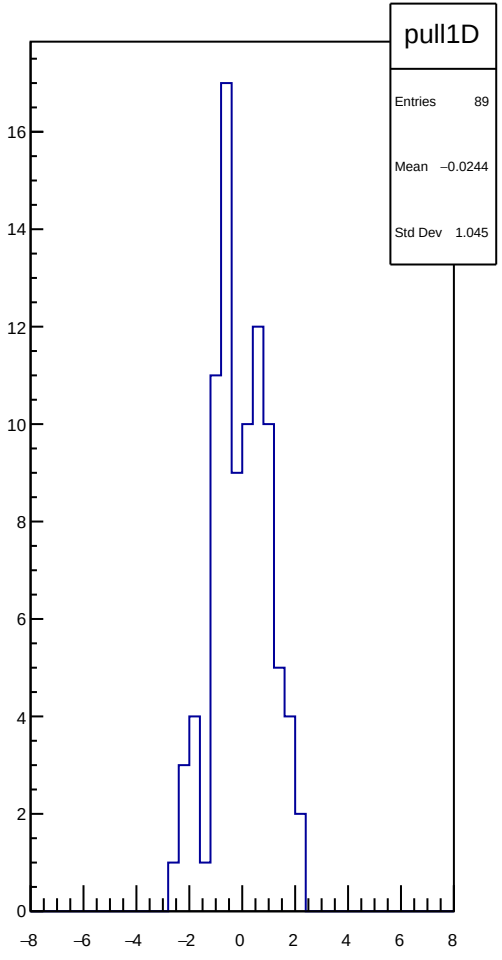

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.94e+05 / 88
p0 2.006e−10 ± 2.068e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

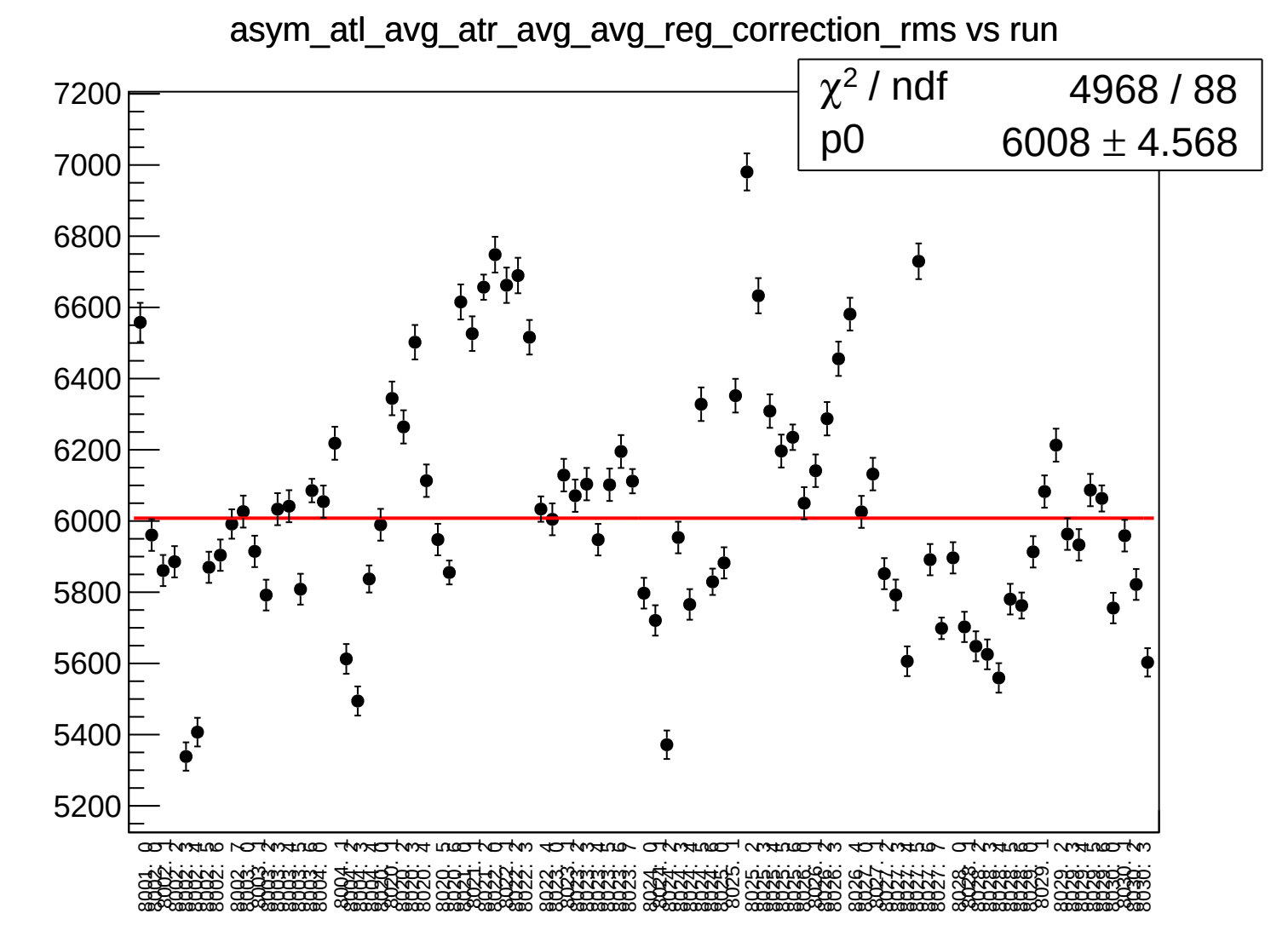

reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 80.01 / 88
p0 −2480 ± 1400
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −120.7
Std Dev 0
2
1
0
−1
−2

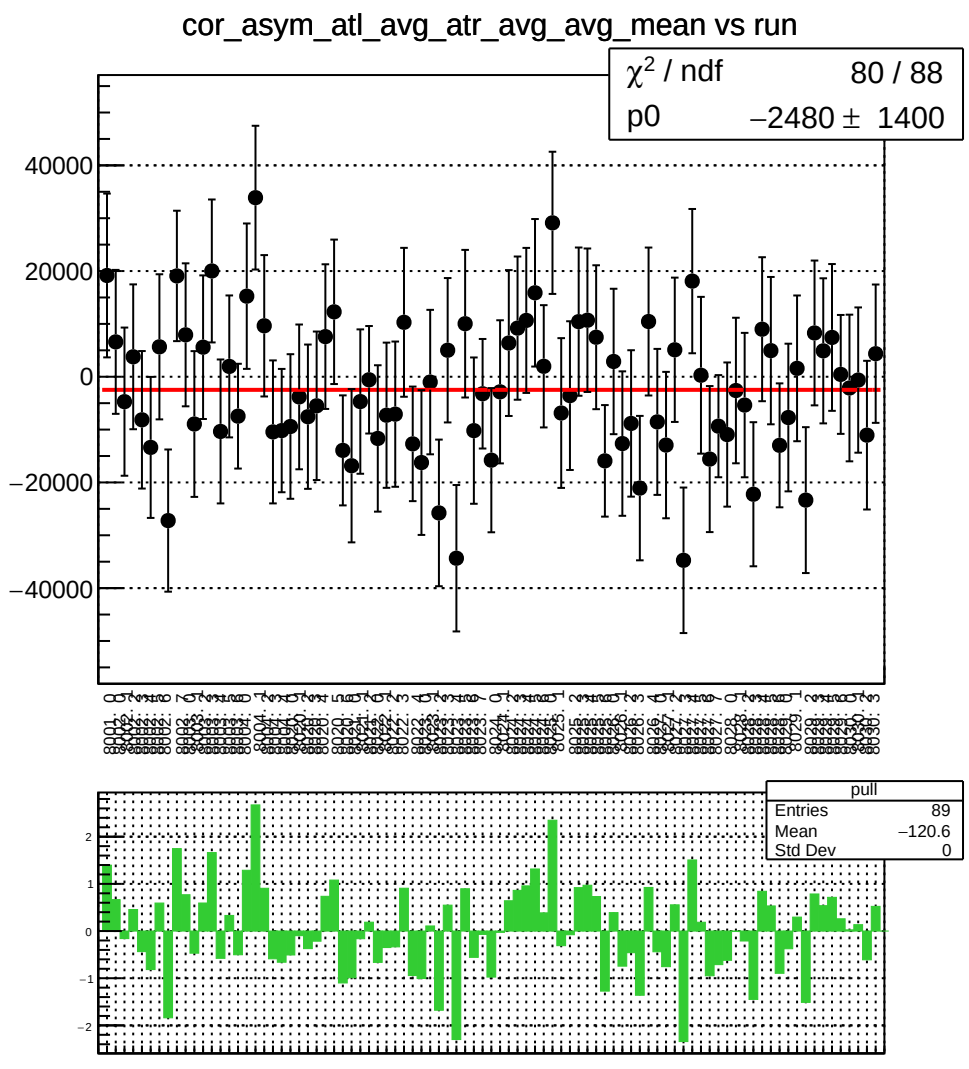

pull1D
Entries 89
Mean 0.01567
Std Dev 0.948
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

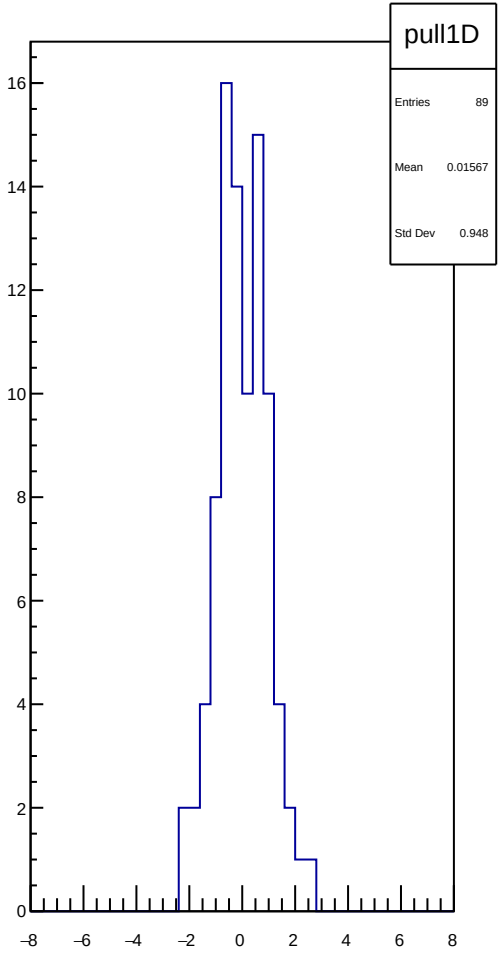

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 639.3 / 88
p0 1304 ± 0.9902
1440
1420
1400
1380
1360
1340
1320
1300
1280
1260
1240
1220

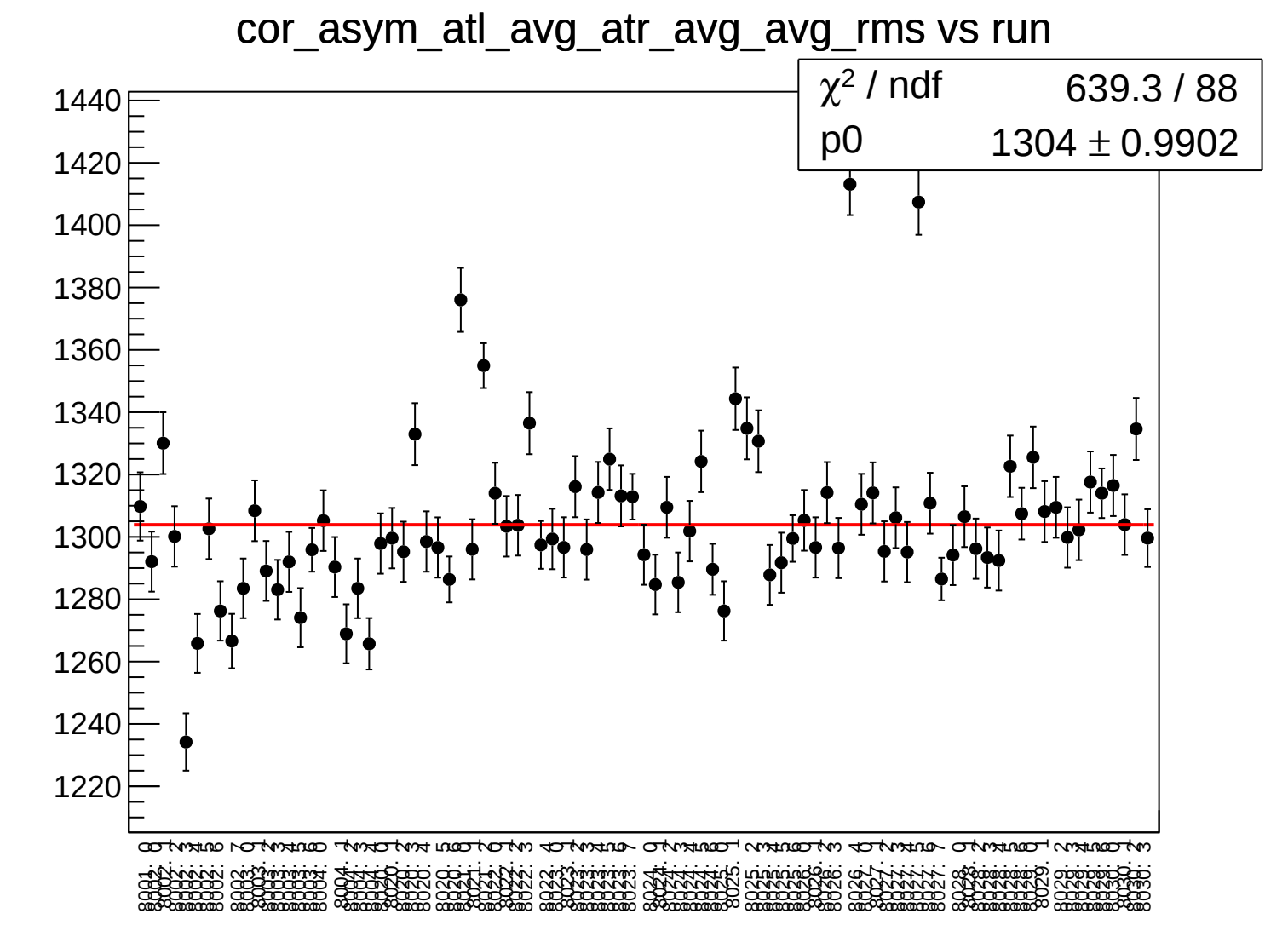

asym_atl_avg_atr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 97.23 / 88
p0 683.5 ± 6460
200
100
0
−100
−200
pull
Entries 89
Mean 153.2
Std Dev 0
2
1
0
−1
−2

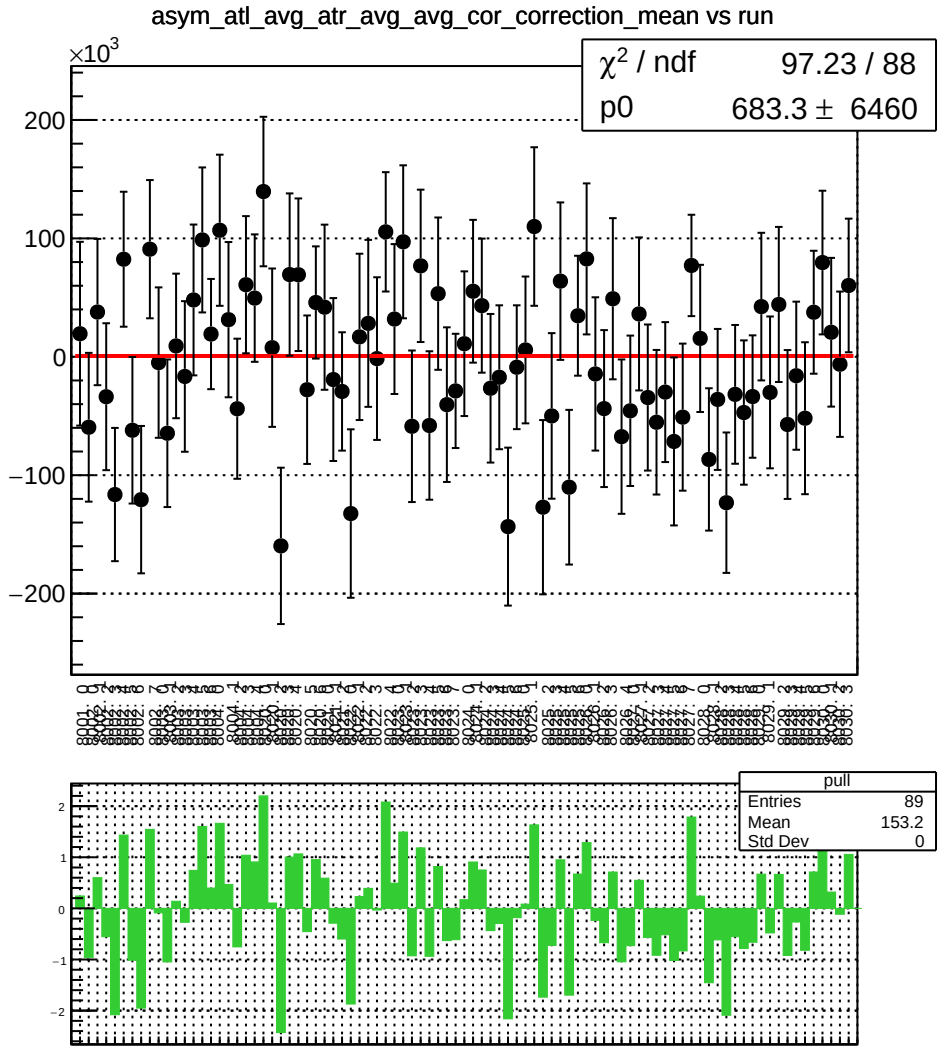

pull1D
Entries 89
Mean −0.0244
Std Dev 1.045
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

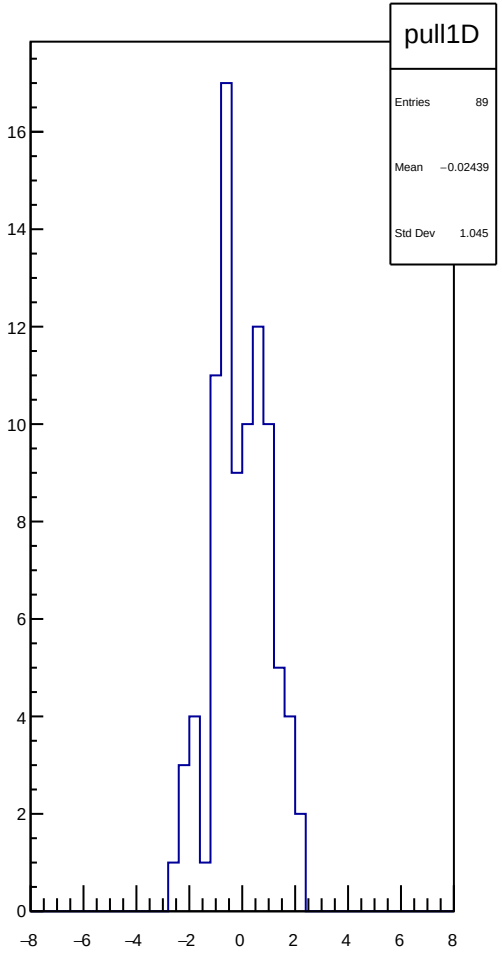

asym_atl_avg_atr_avg_avg_reg_correction_rms vs run
χ² / ndf 4968 / 88
p0 6008 ± 4.568
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400
5200

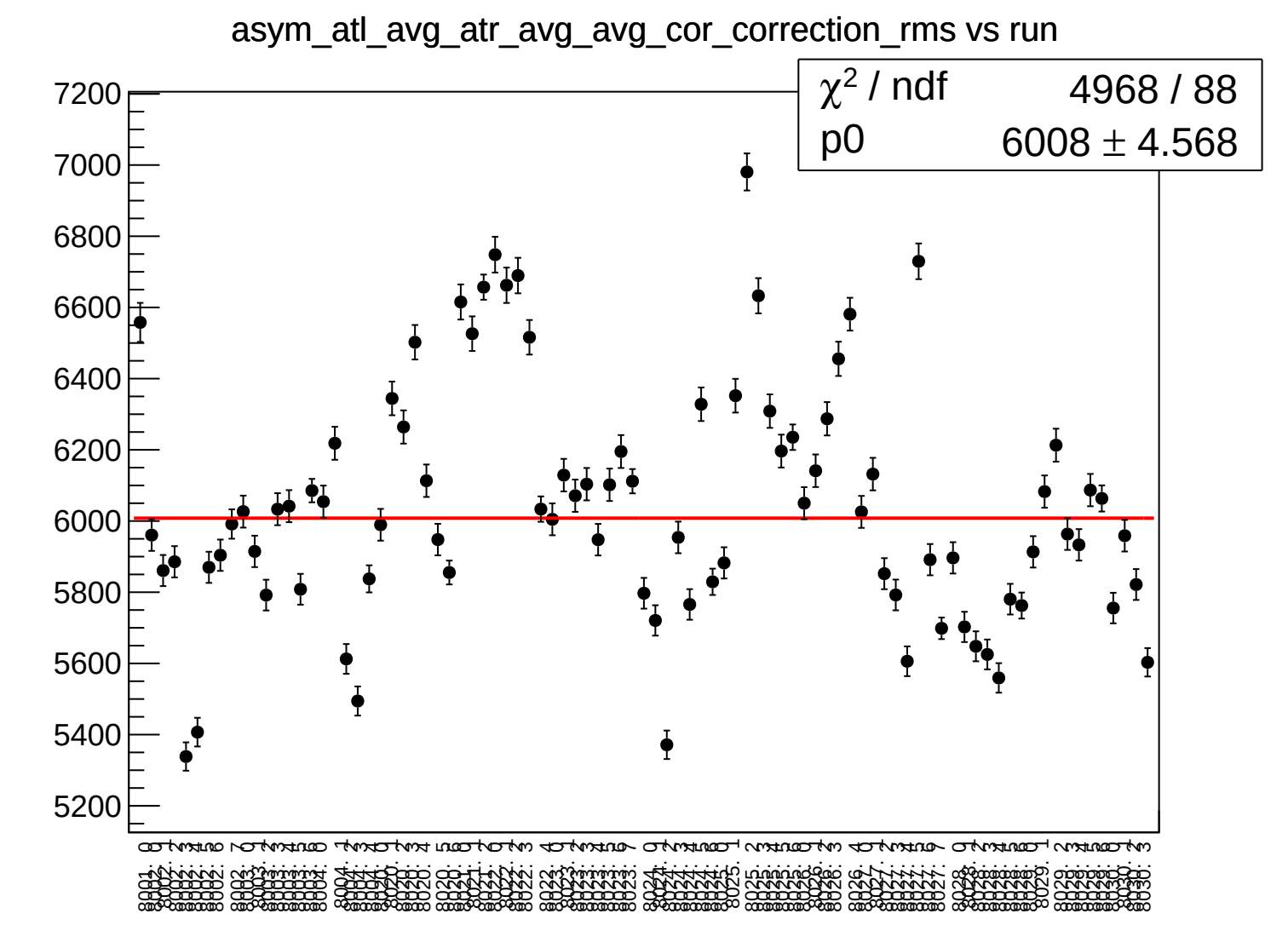

cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 80 / 88
p0 −2480 ± 1400
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −120.6
Std Dev 0
2
1
0
−1
−2

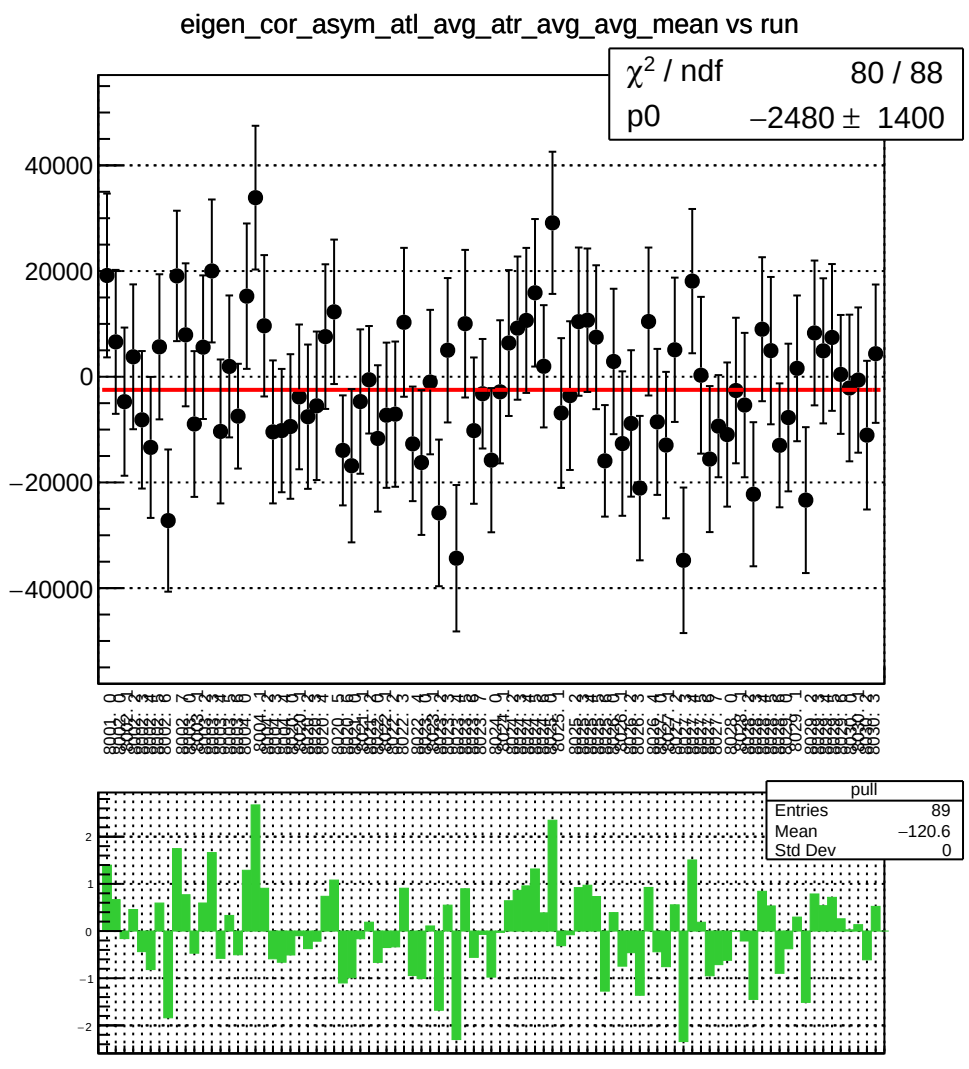

pull1D
Entries 89
Mean 0.01567
Std Dev 0.948
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

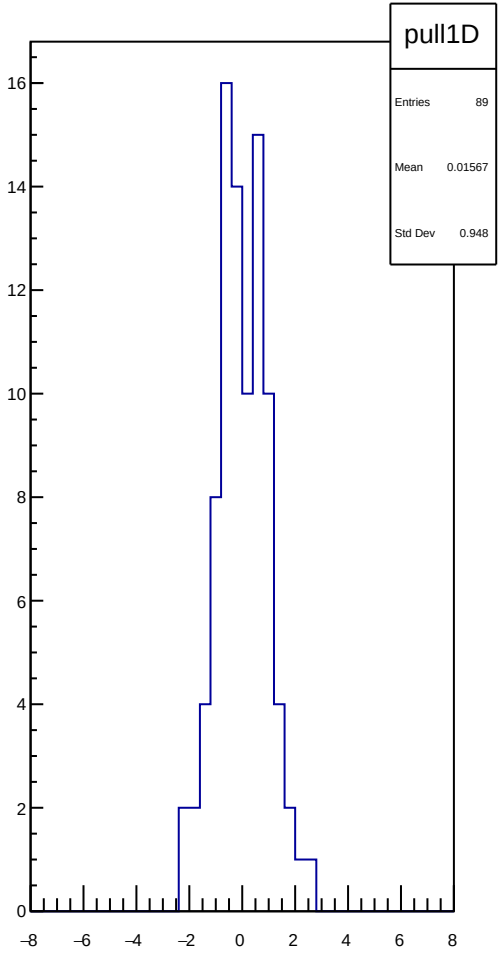

cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 639.3 / 88
p0 1304 ± 0.9902
1440
1420
1400
1380
1360
1340
1320
1300
1280
1260
1240
1220

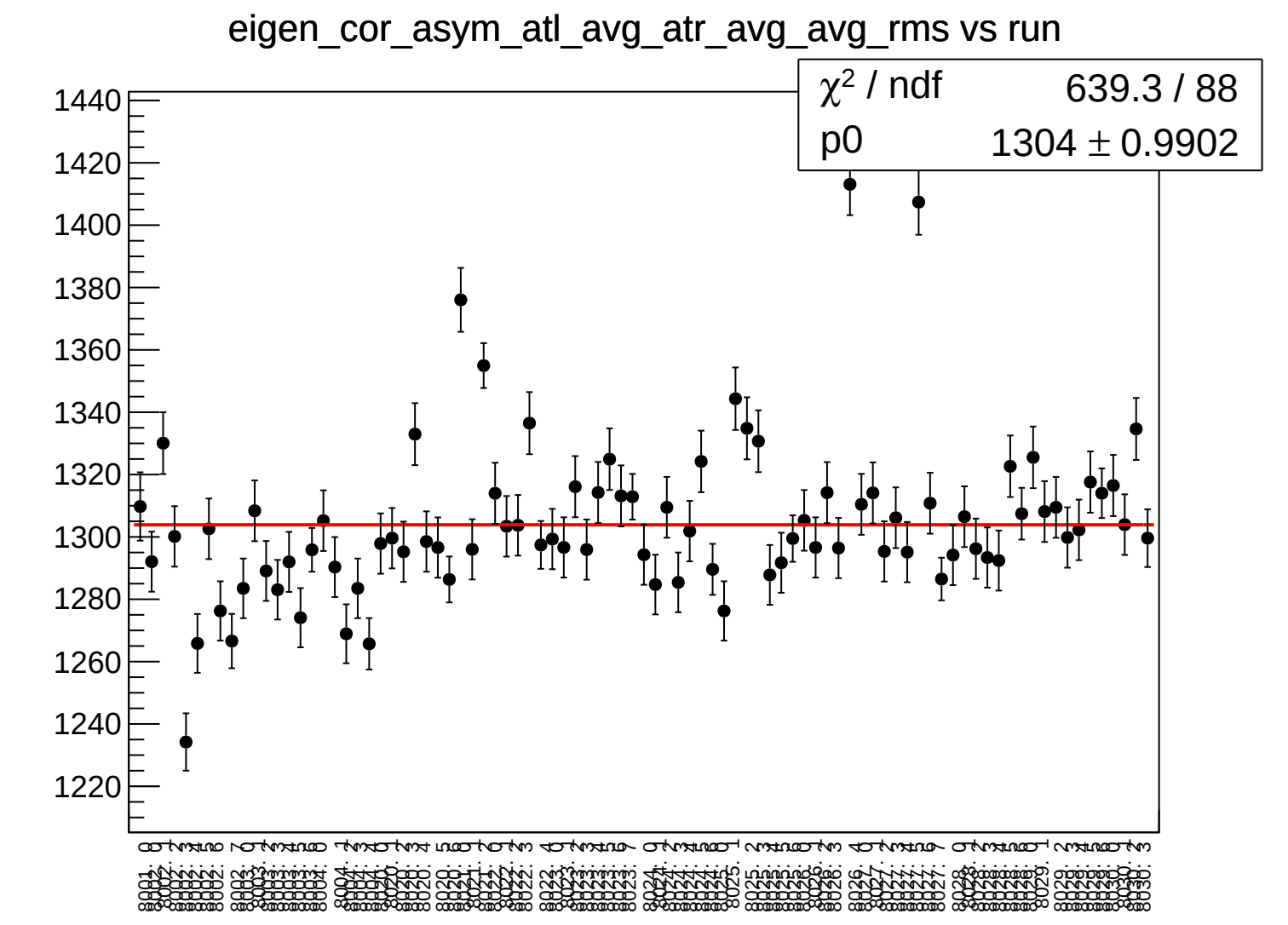

asym_atl_avg_atr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 97.23 / 88
p0 683.3 ± 6460
200
100
0
−100
−200
pull
Entries 89
Mean 153.2
Std Dev 0
2
1
0
−1
−2

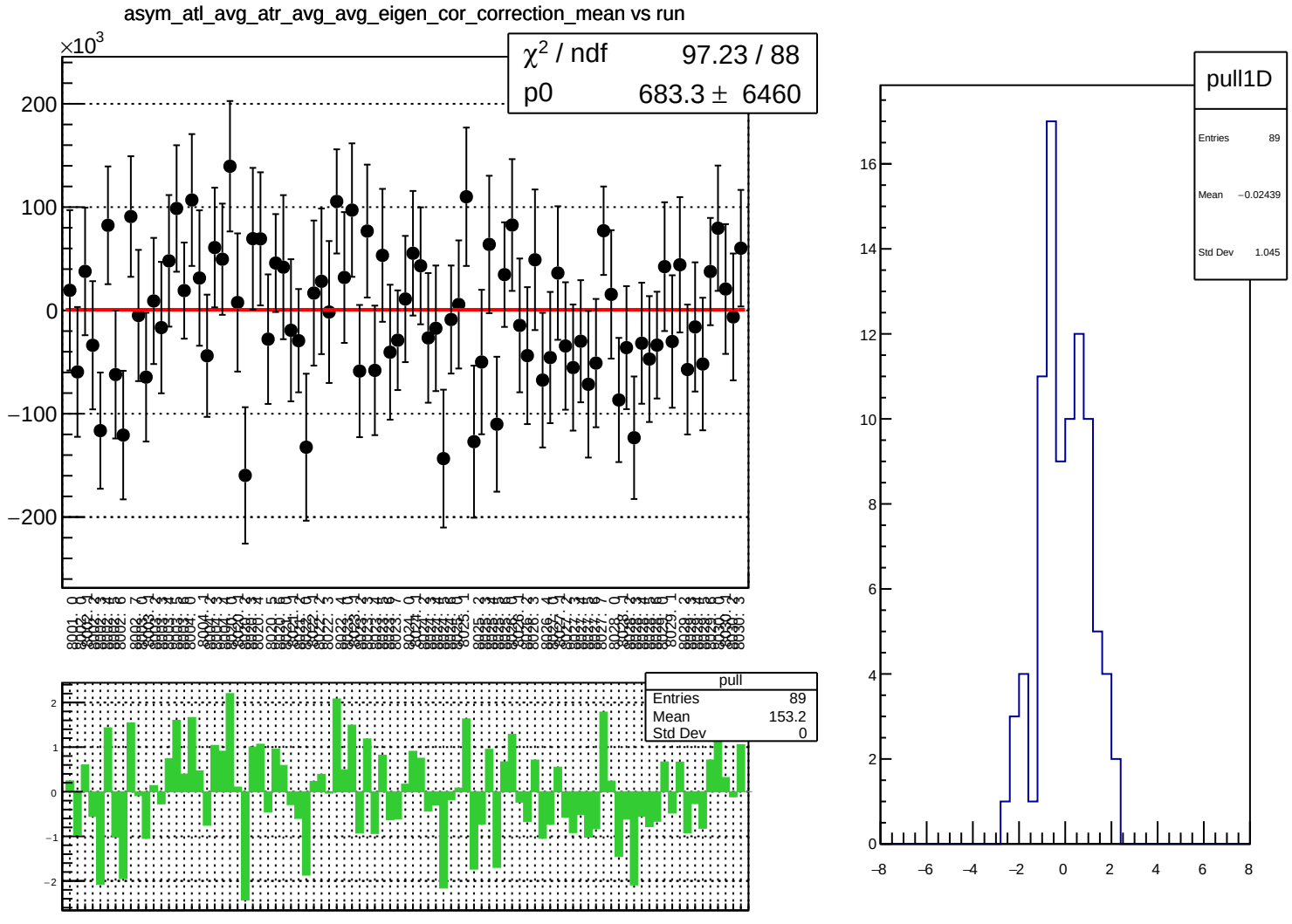

pull1D
Entries 89
Mean −0.02439
Std Dev 1.045
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

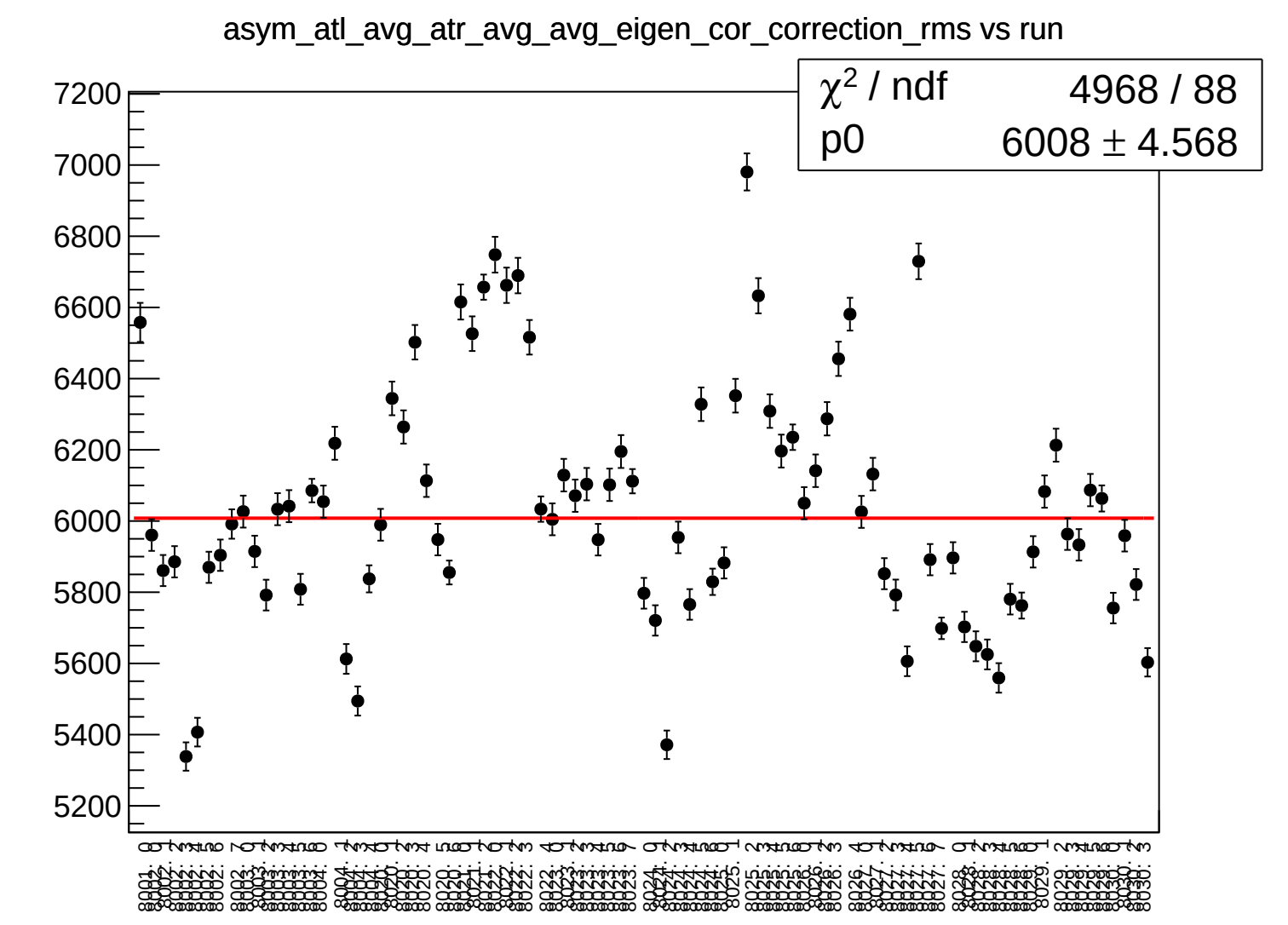

asym_atl_avg_atr_avg_avg_cor_correction_rms vs run
χ² / ndf 4968 / 88
p0 6008 ± 4.568
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400
5200

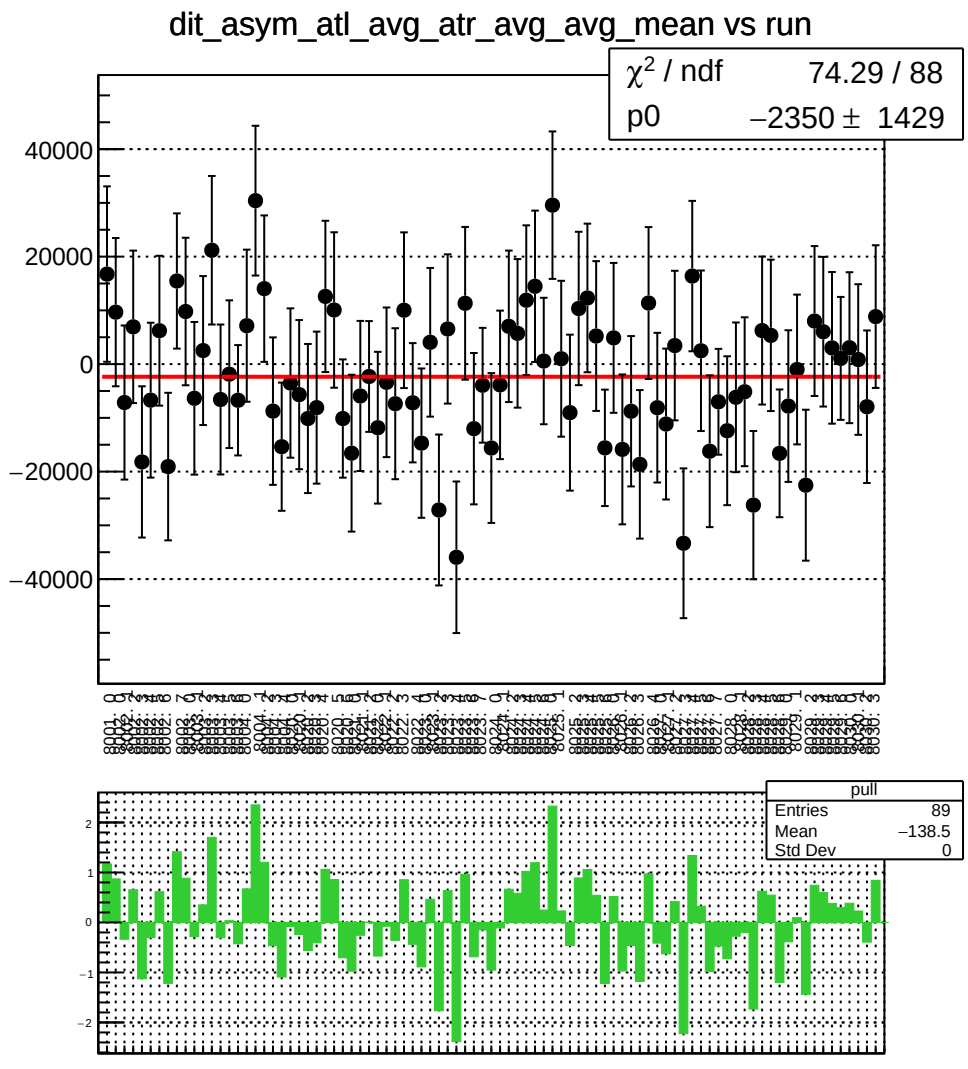

eigen_cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 80 / 88
p0 −2480 ± 1400
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −120.6
Std Dev 0
2
1
0
−1
−2

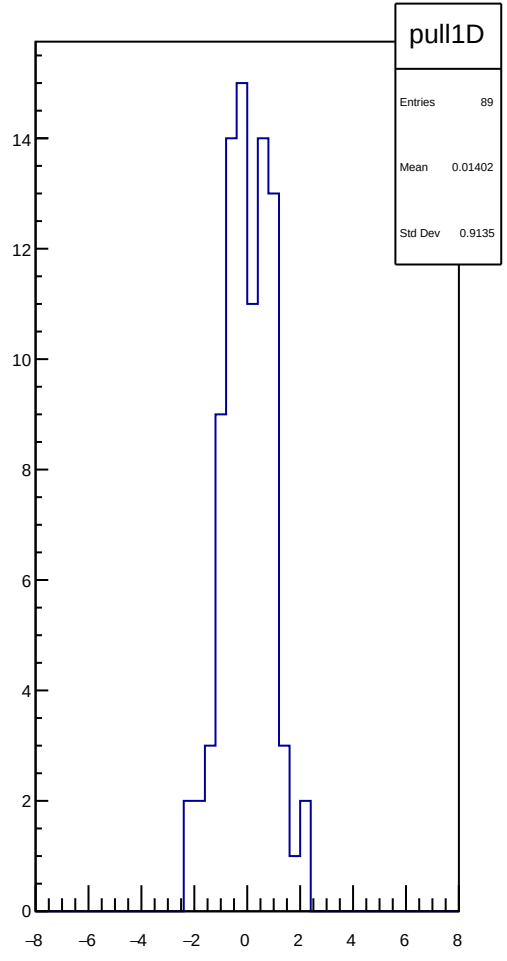

pull1D
Entries 89
Mean 0.01567
Std Dev 0.948
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

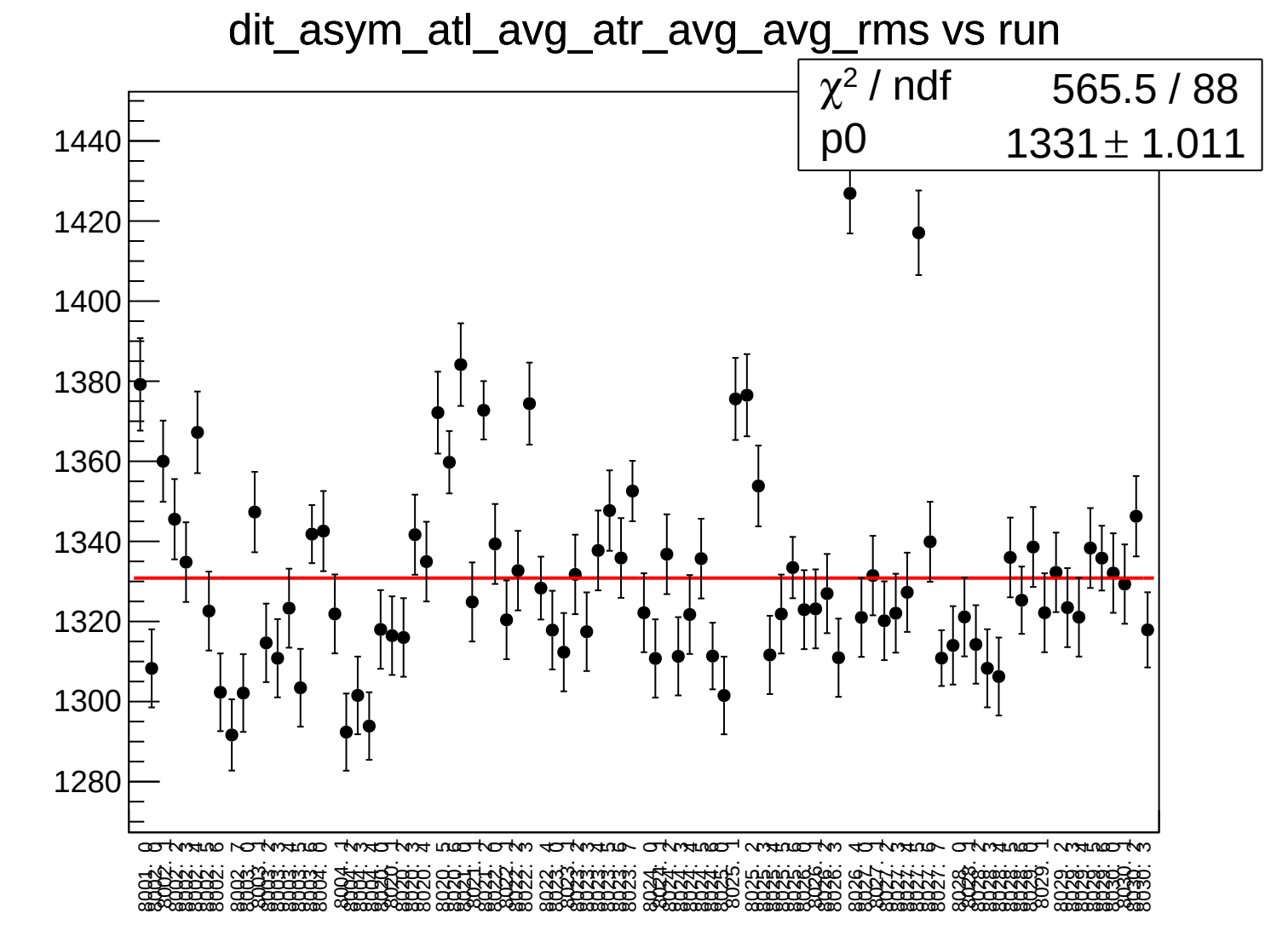

eigen_cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 639.3 / 88
p0 1304 ± 0.9902
1440
1420
1400
1380
1360
1340
1320
1300
1280
1260
1240
1220

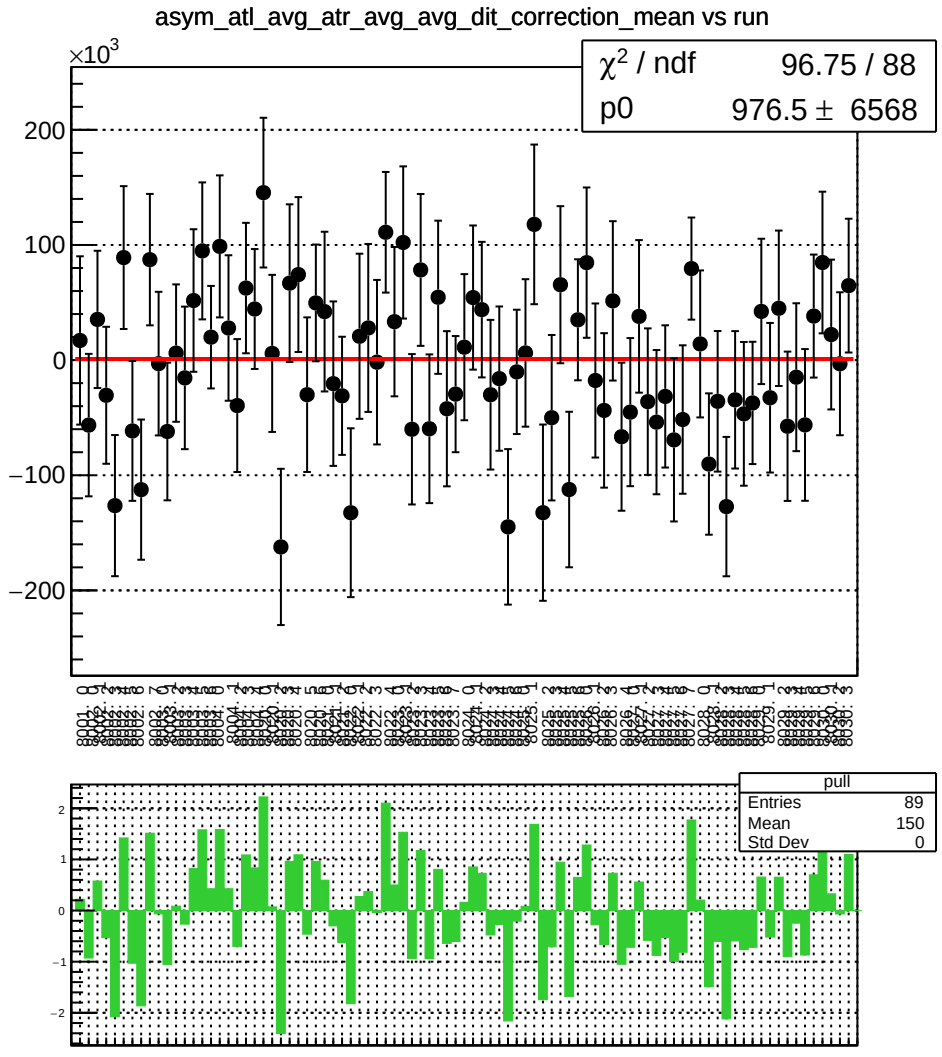

asym_atl_avg_atr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 97.23 / 88
p0 683.3 ± 6460
200
100
0
−100
−200
pull
Entries 89
Mean 153.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.02439
Std Dev 1.045
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

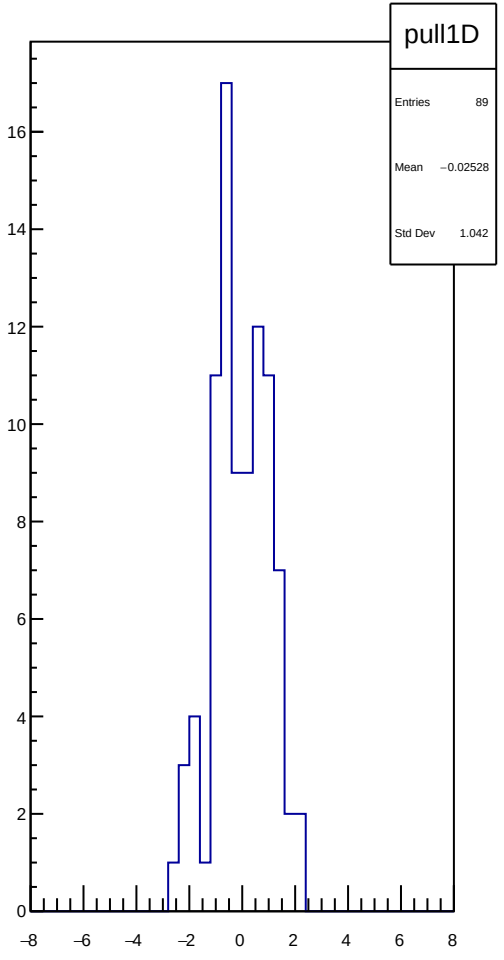

asym_atl_avg_atr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 4968 / 88
p0 6008 ± 4.568
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400
5200

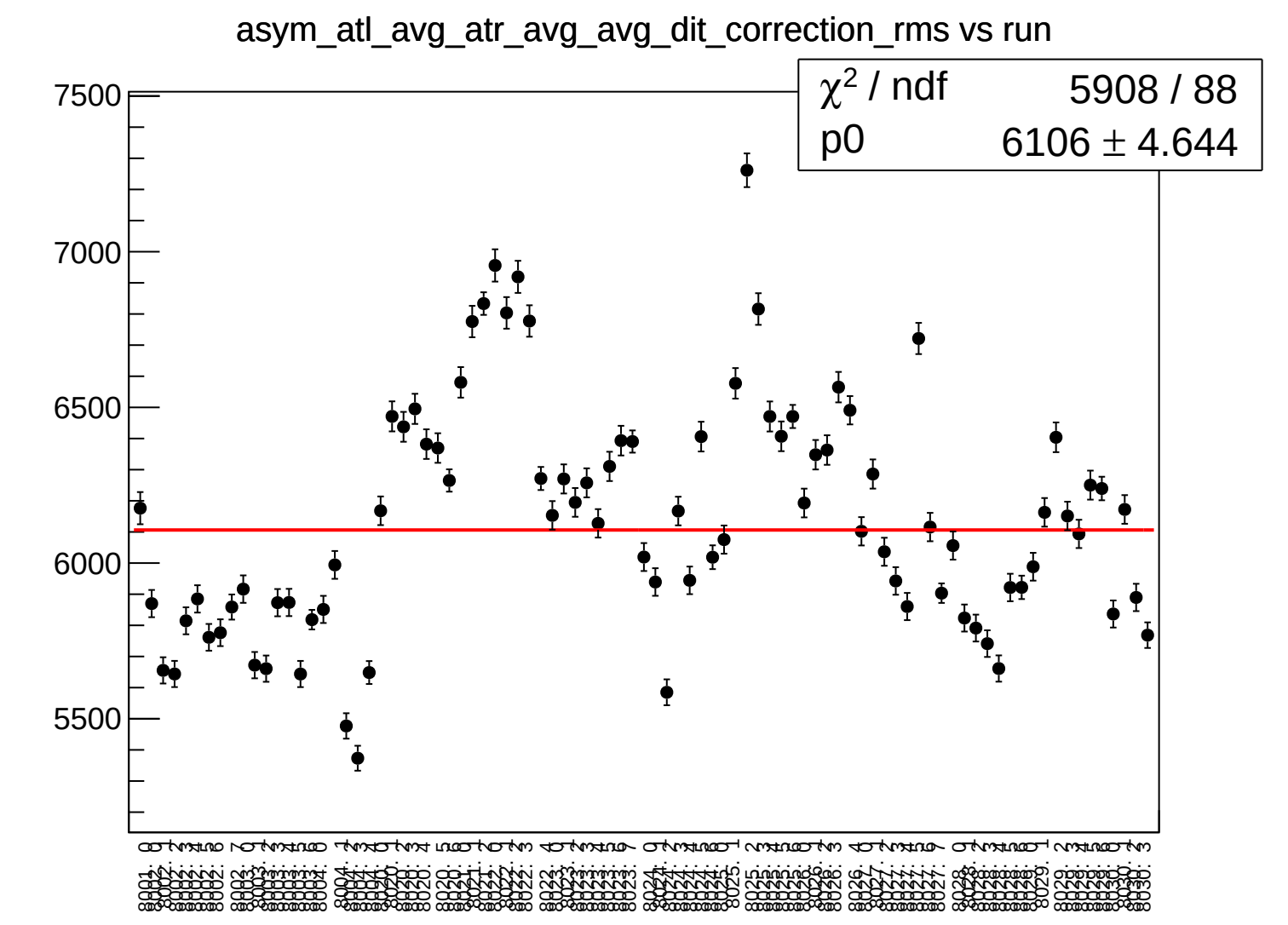

dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 74.29 / 88
p0 −2350 ± 1429
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −138.5
Std Dev 0
2
1
0
−1
−2

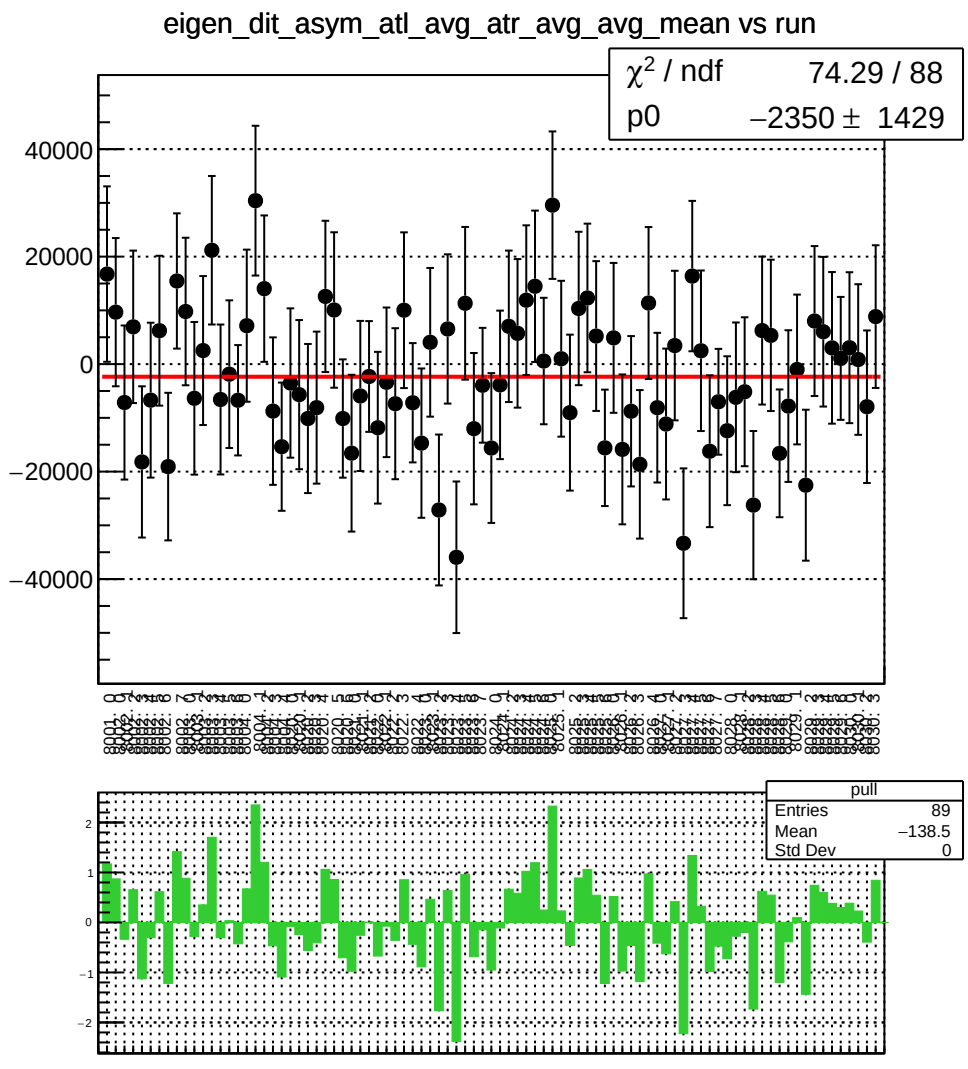

pull1D
Entries 89
Mean 0.01402
Std Dev 0.9135
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

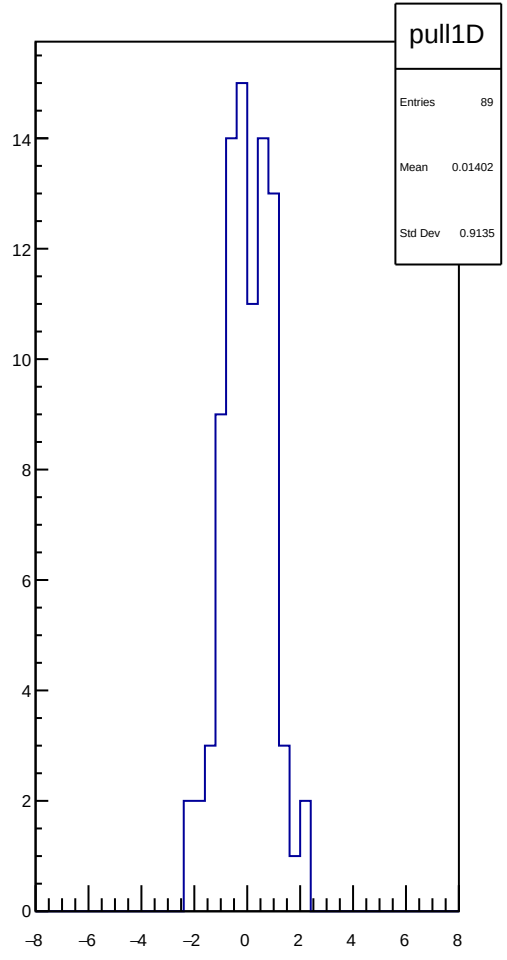

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 565.5 / 88
p0 1331 ± 1.011
1440
1420
1400
1380
1360
1340
1320
1300
1280

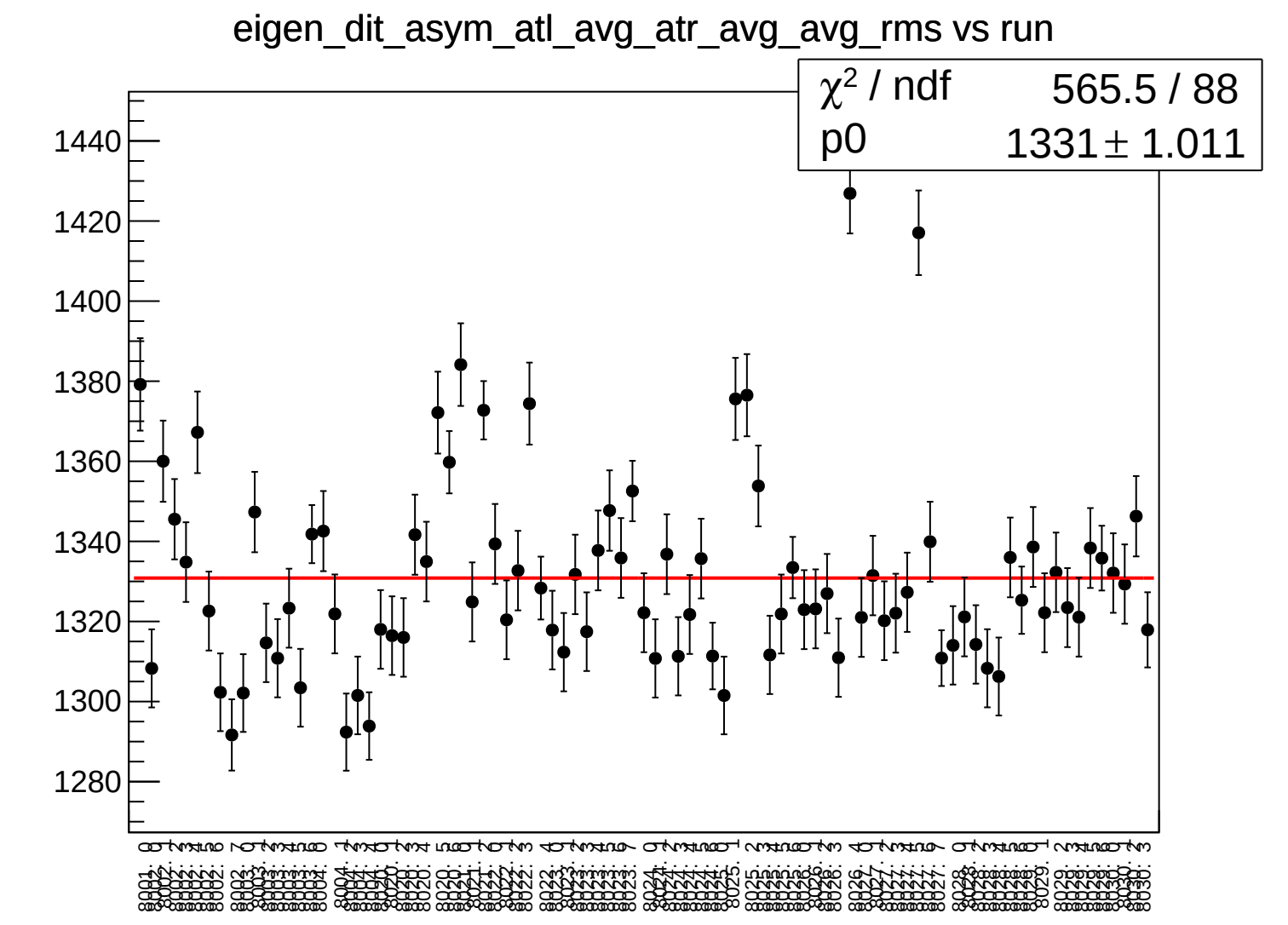

asym_atl_avg_atr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 96.75 / 88
p0 976.5 ± 6568
200
100
0
−100
−200
pull
Entries 89
Mean 150
Std Dev 0
2
1
0
−1
−2

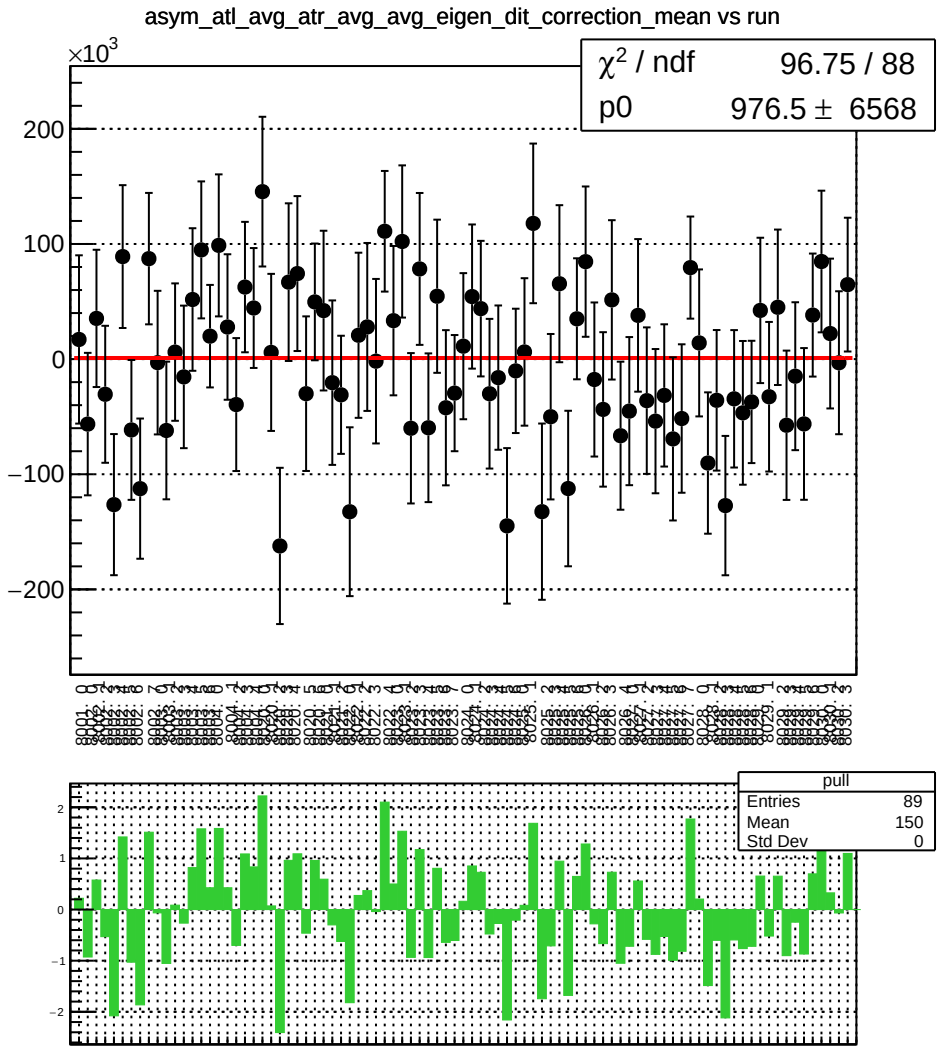

pull1D
Entries 89
Mean −0.02528
Std Dev 1.042
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

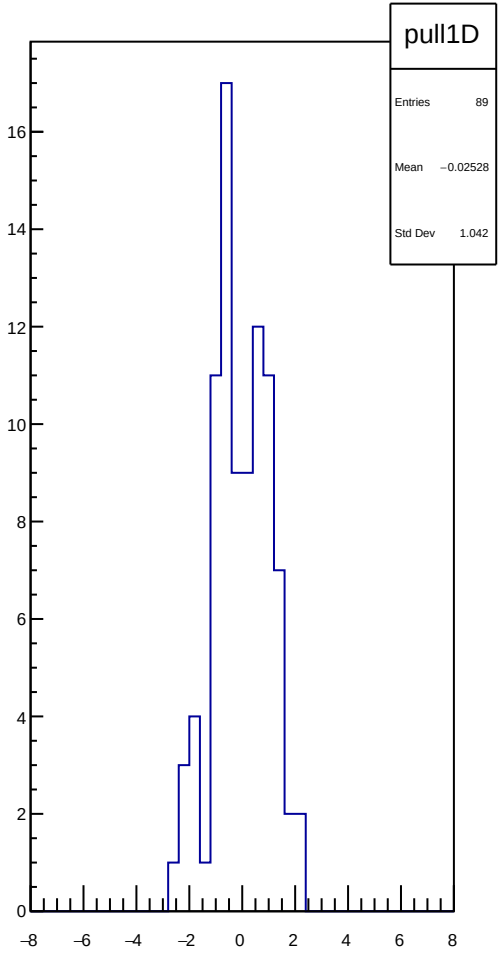

asym_atl_avg_atr_avg_avg_dit_correction_rms vs run
χ² / ndf 5908 / 88
p0 6106 ± 4.644
7500
7000
6500
6000
5500

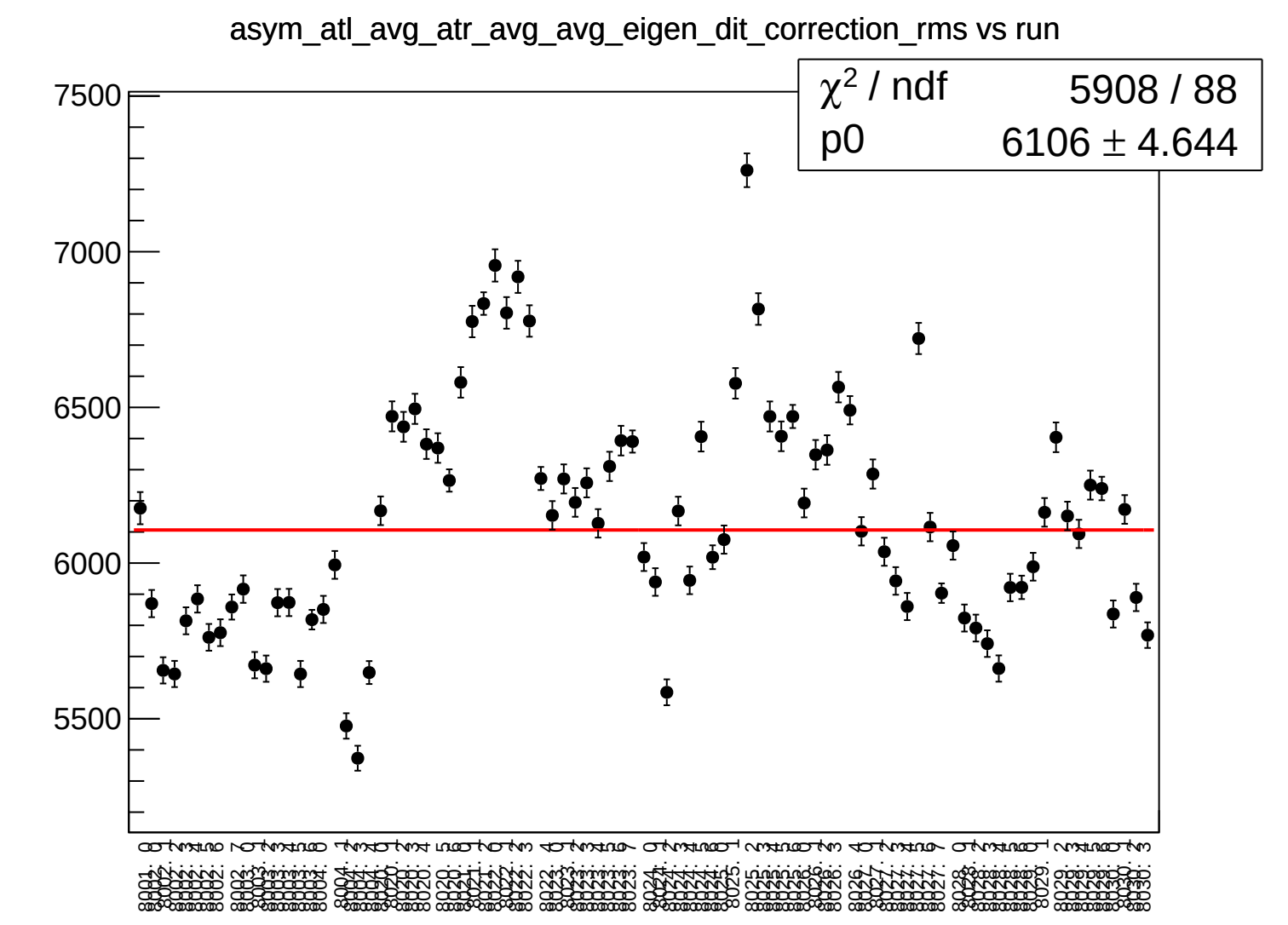

eigen_dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 74.29 / 88
p0 −2350 ± 1429
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −138.5
Std Dev 0
2
1
0
−1
−2

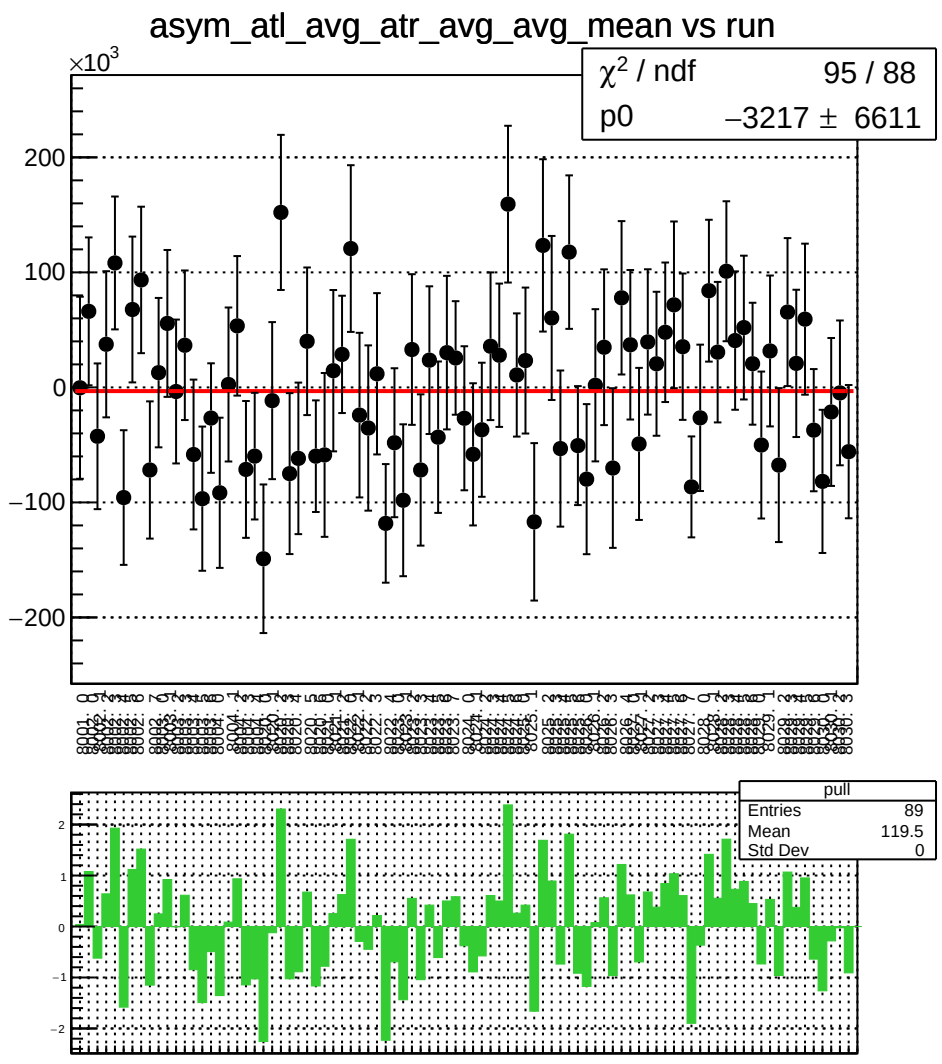

pull1D
Entries 89
Mean 0.01402
Std Dev 0.9135
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

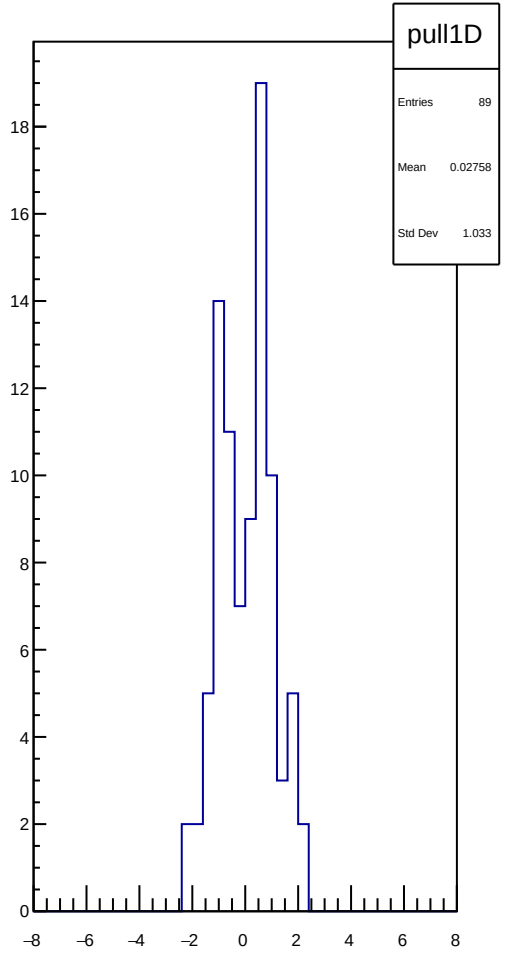

eigen_dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 565.5 / 88
p0 1331 ± 1.011
1440
1420
1400
1380
1360
1340
1320
1300
1280

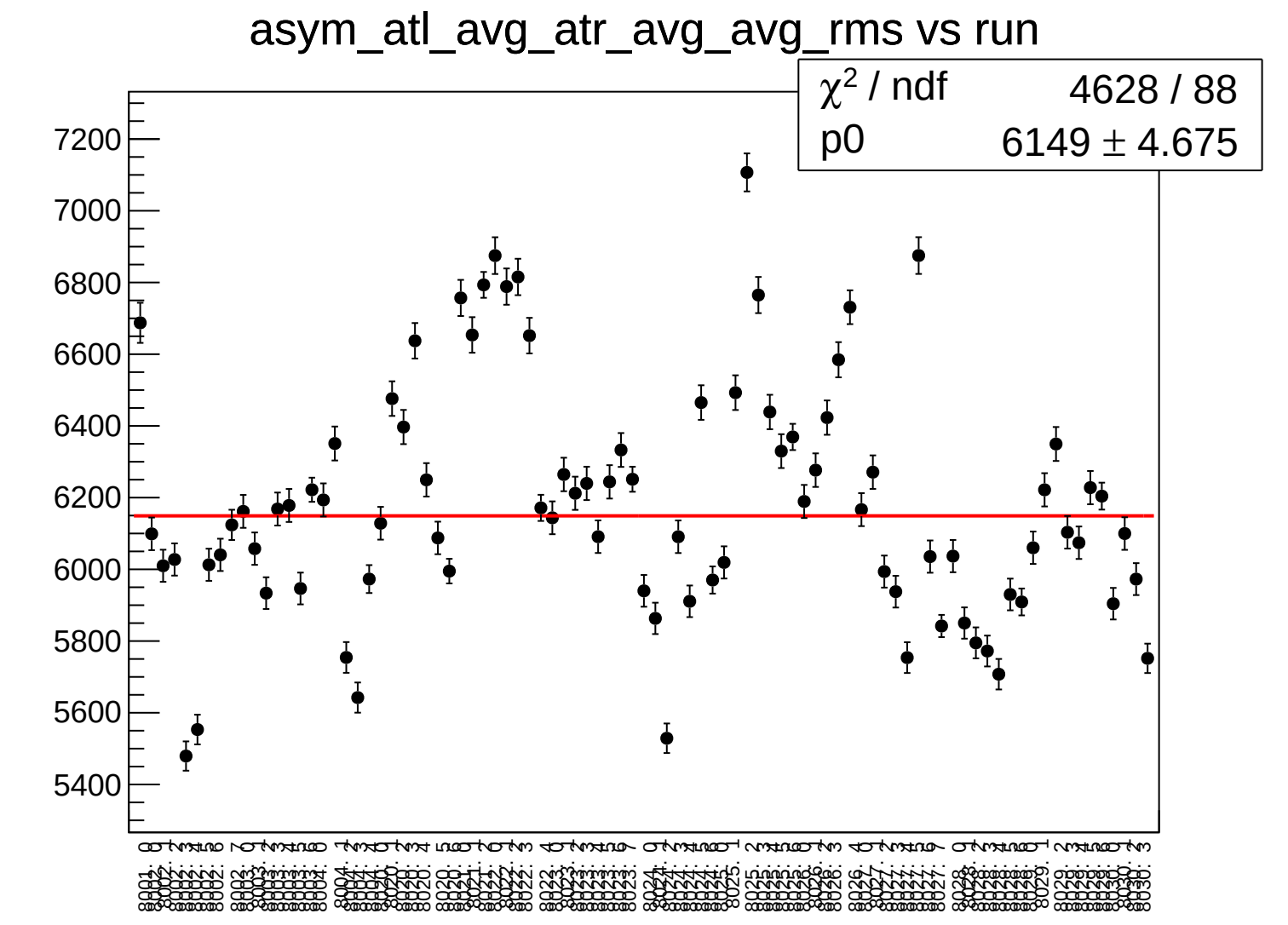

asym_atl_avg_atr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 96.75 / 88
p0 976.5 ± 6568
200
100
0
−100
−200
pull
Entries 89
Mean 150
Std Dev 0
2
1
0
−1
−2

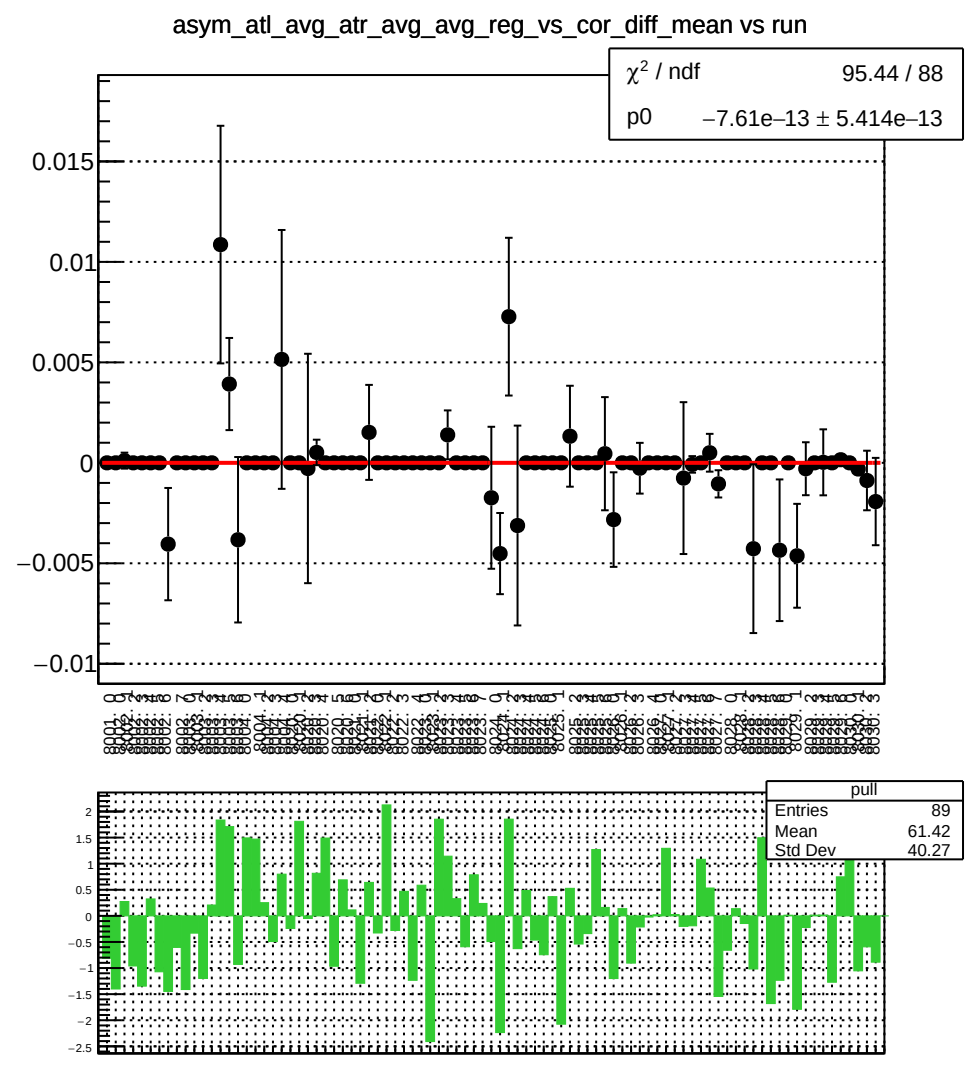

pull1D
Entries 89
Mean −0.02528
Std Dev 1.042
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

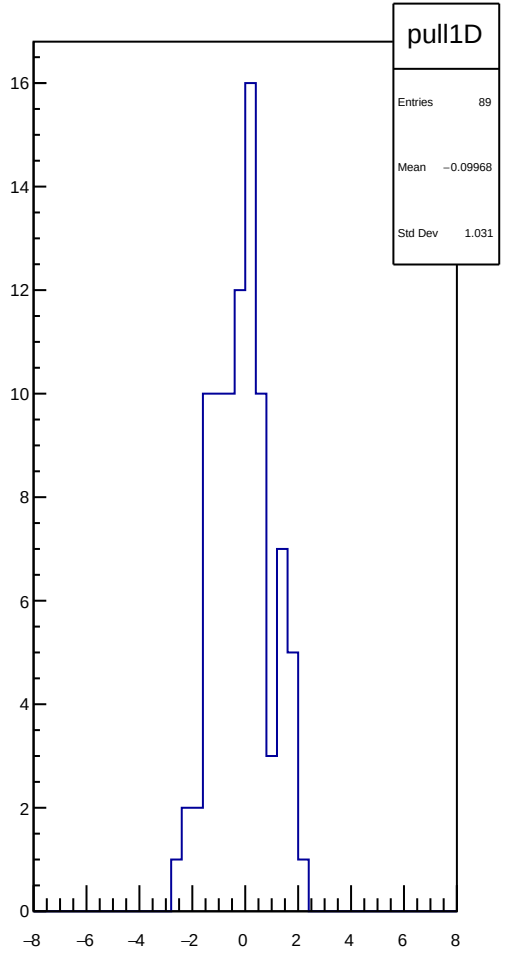

asym_atl_avg_atr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 5908 / 88
p0 6106 ± 4.644
7500
7000
6500
6000
5500

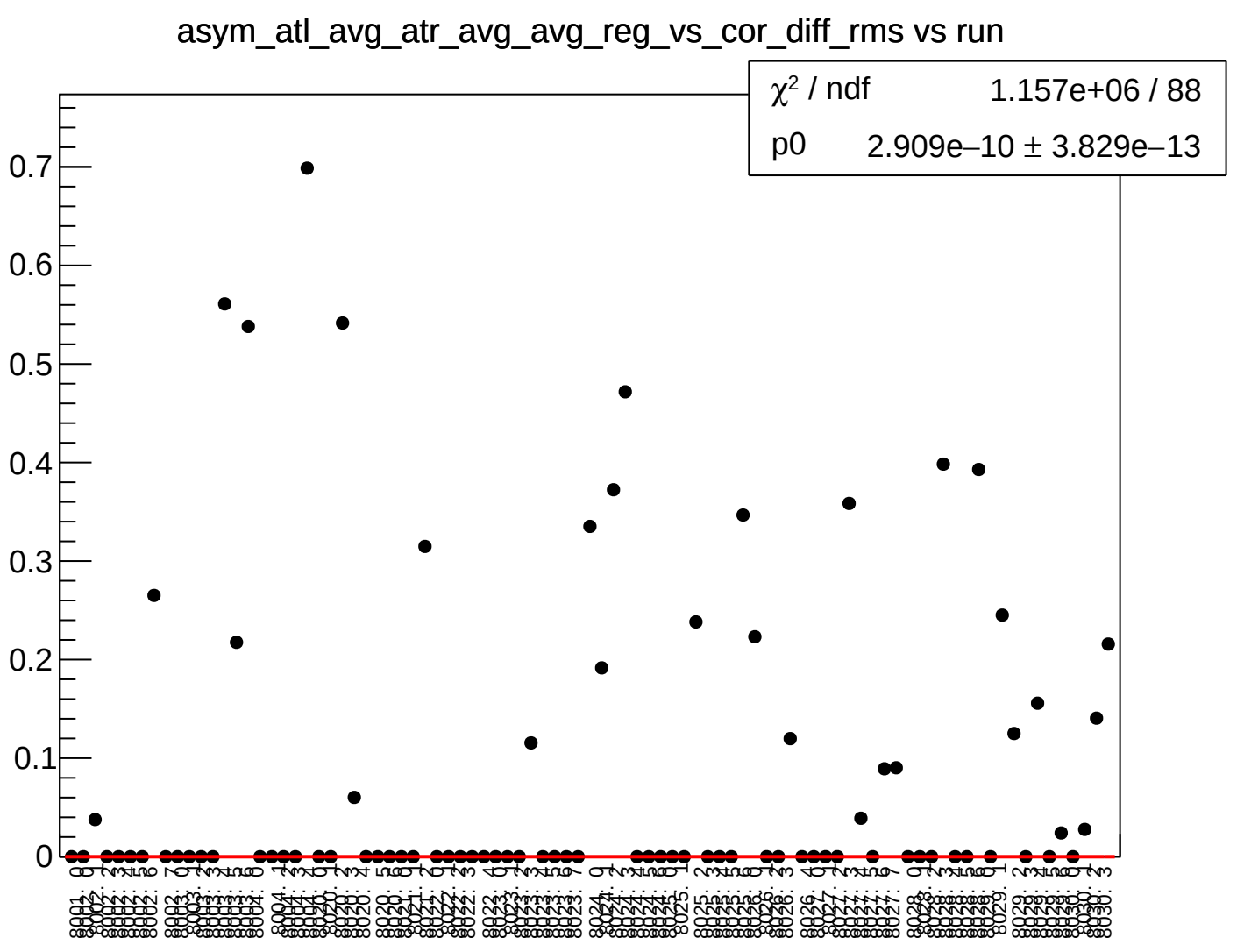

asym_atl_avg_atr_avg_avg_mean vs run
χ^2 / ndf 95 / 88
p0 −3217 ± 6611
×10^3
200
100
0
−100
−200
pull
Entries 89
Mean 119.5
Std Dev 0
2
1
0
−1
−2

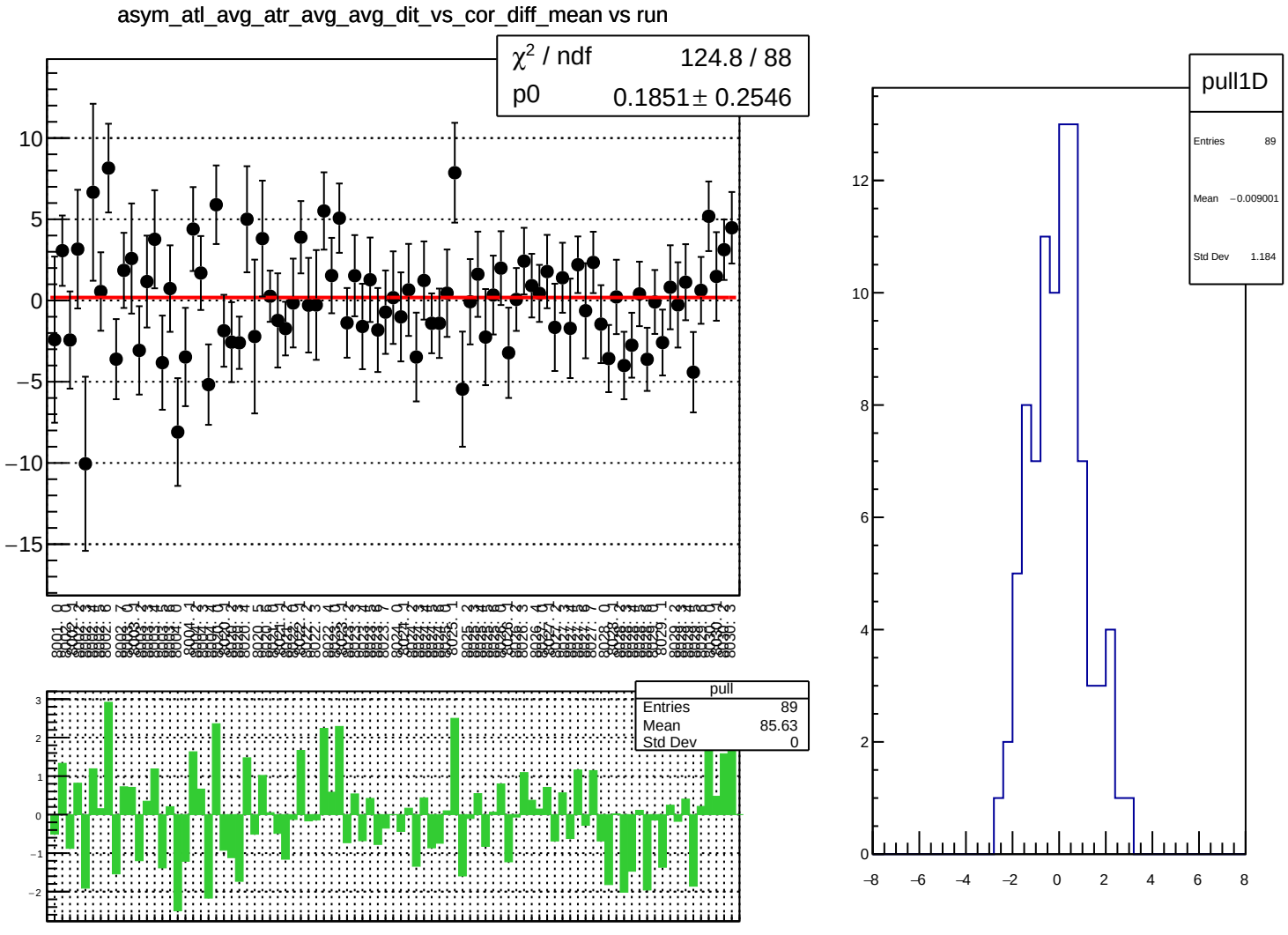

pull1D
Entries 89
Mean 0.02758
Std Dev 1.033
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

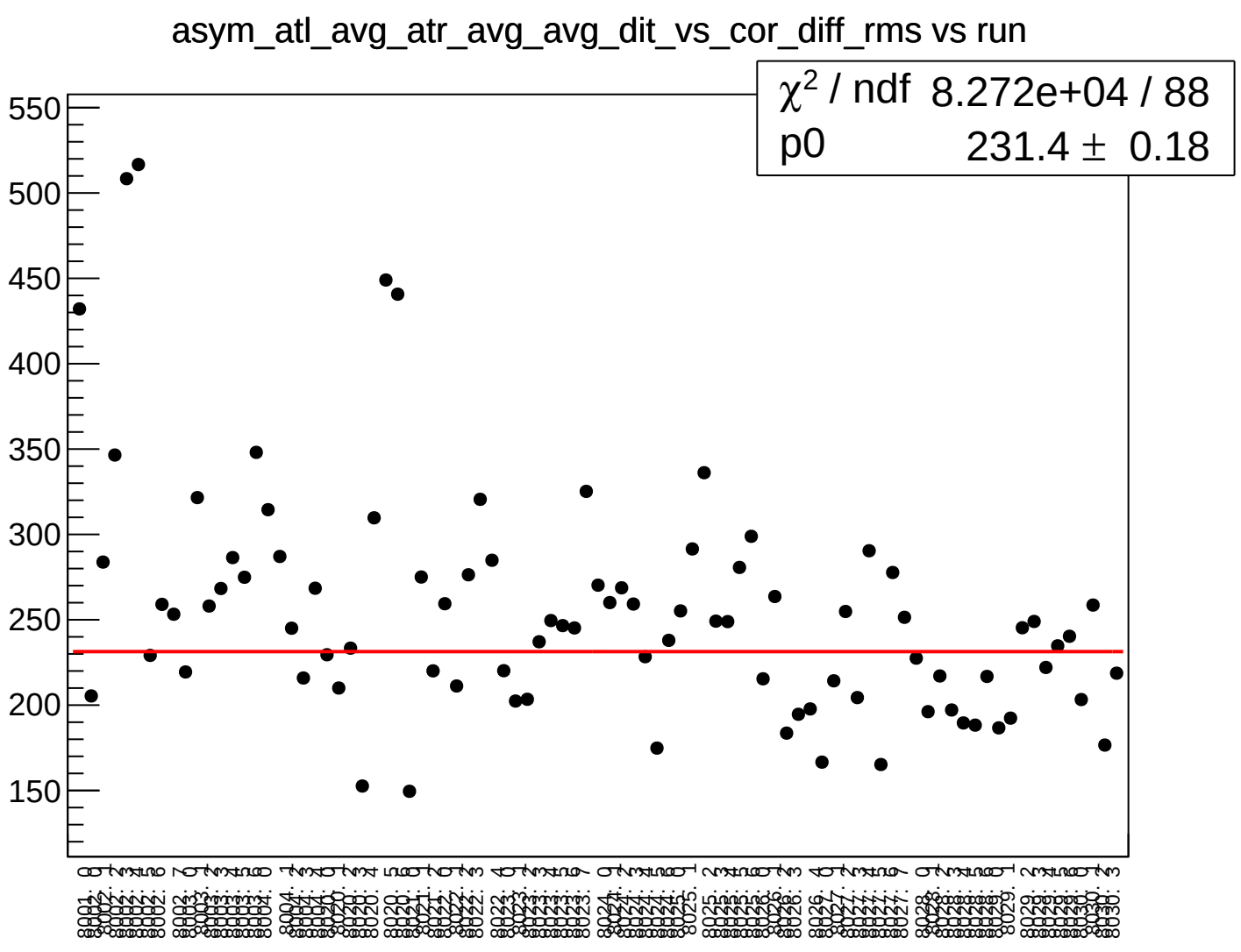

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 4628 / 88
p0 6149 ± 4.675
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400

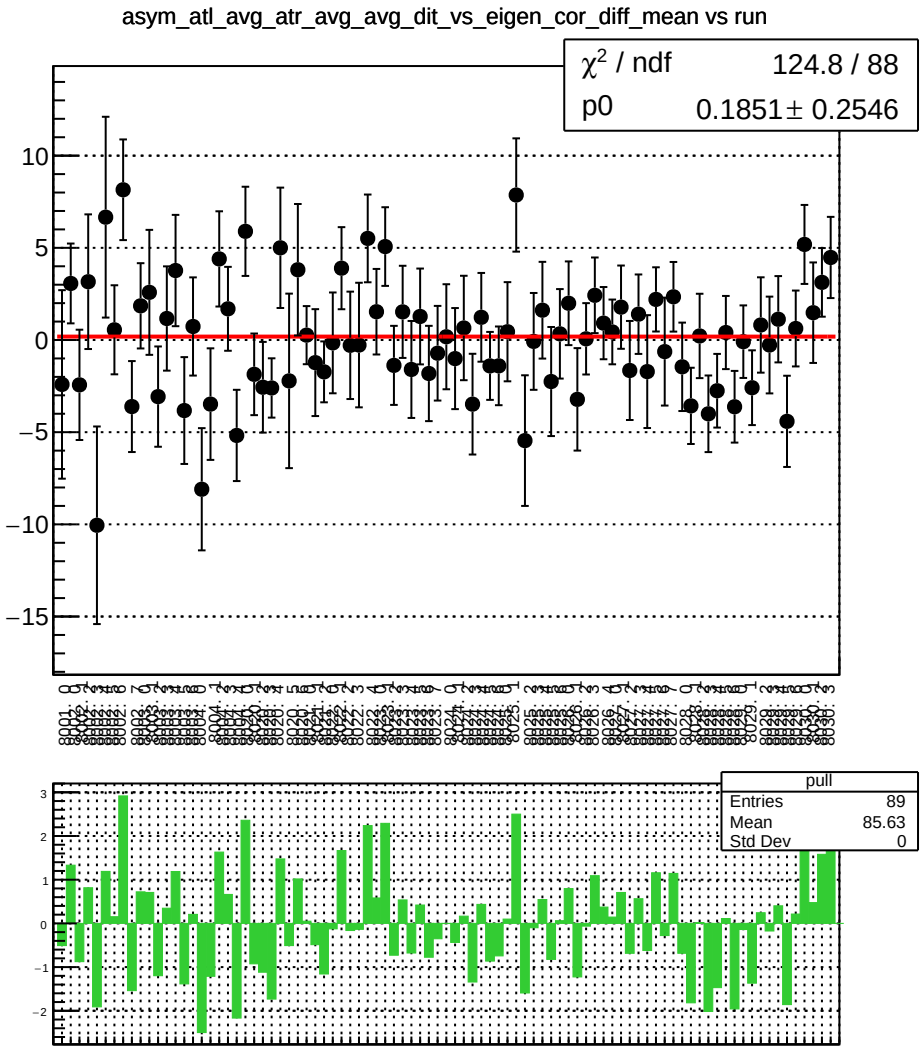

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 95.44 / 88
p0 −7.61e−13 ± 5.414e−13
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 89
Mean 61.42
Std Dev 40.27
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

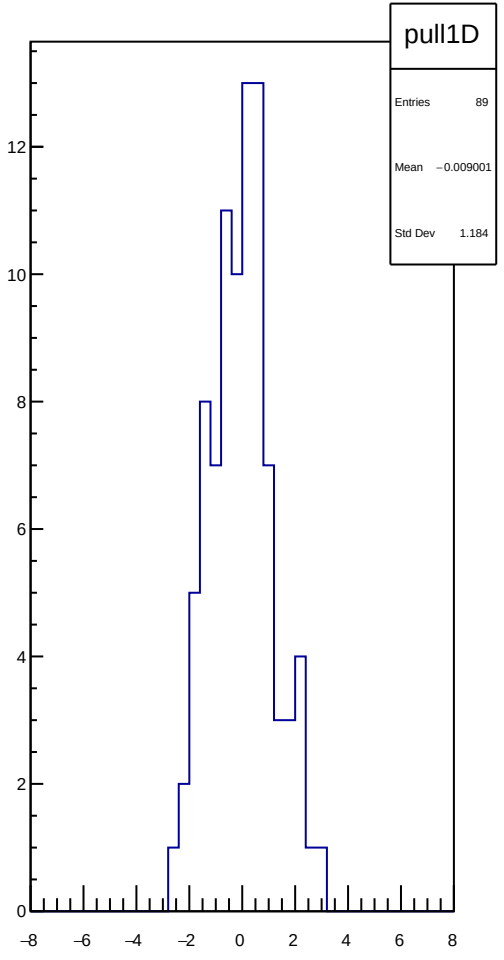

pull1D
Entries 89
Mean −0.09968
Std Dev 1.031
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

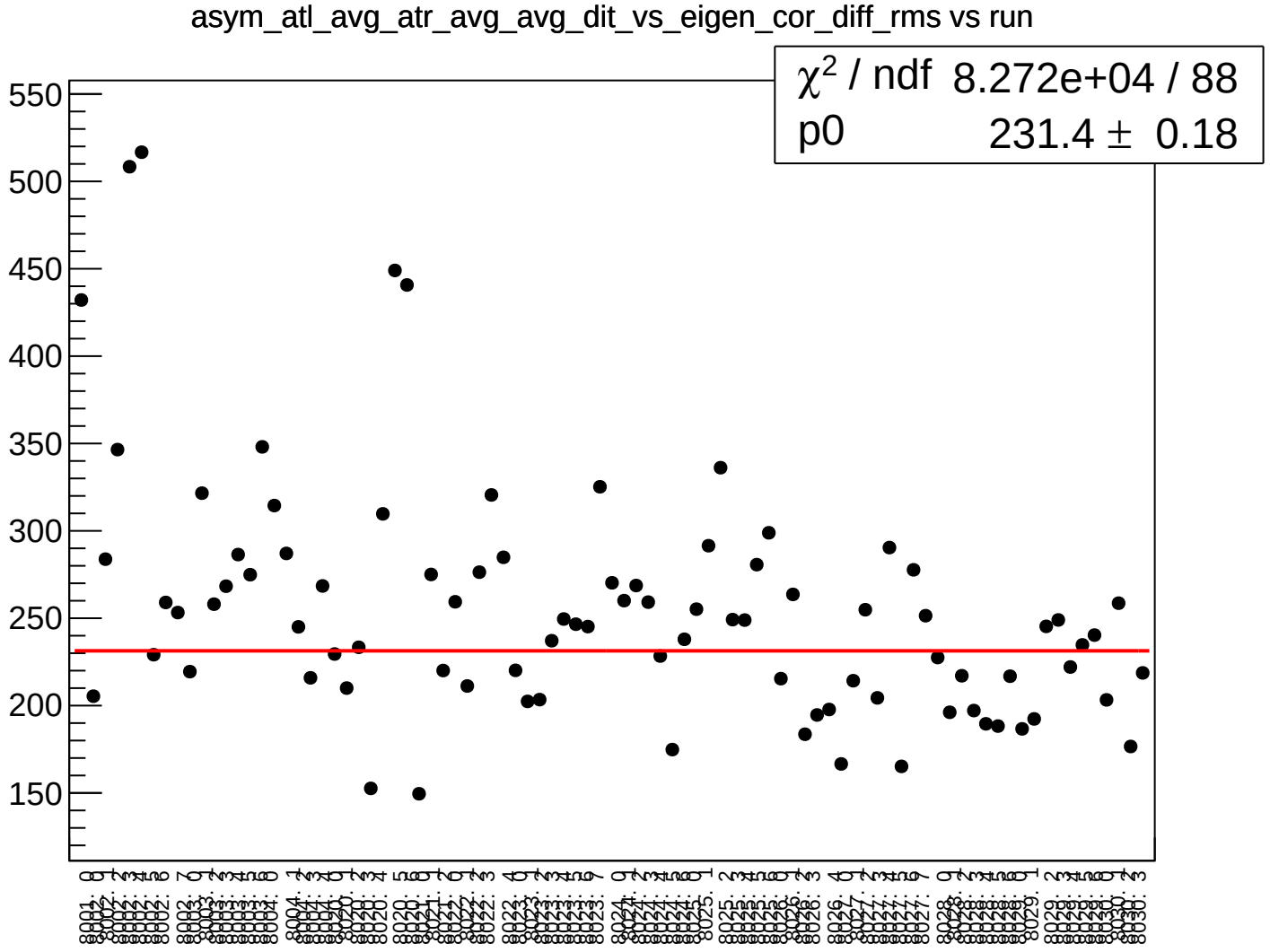

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.157e+06 / 88
p0 2.909e−10 ± 3.829e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

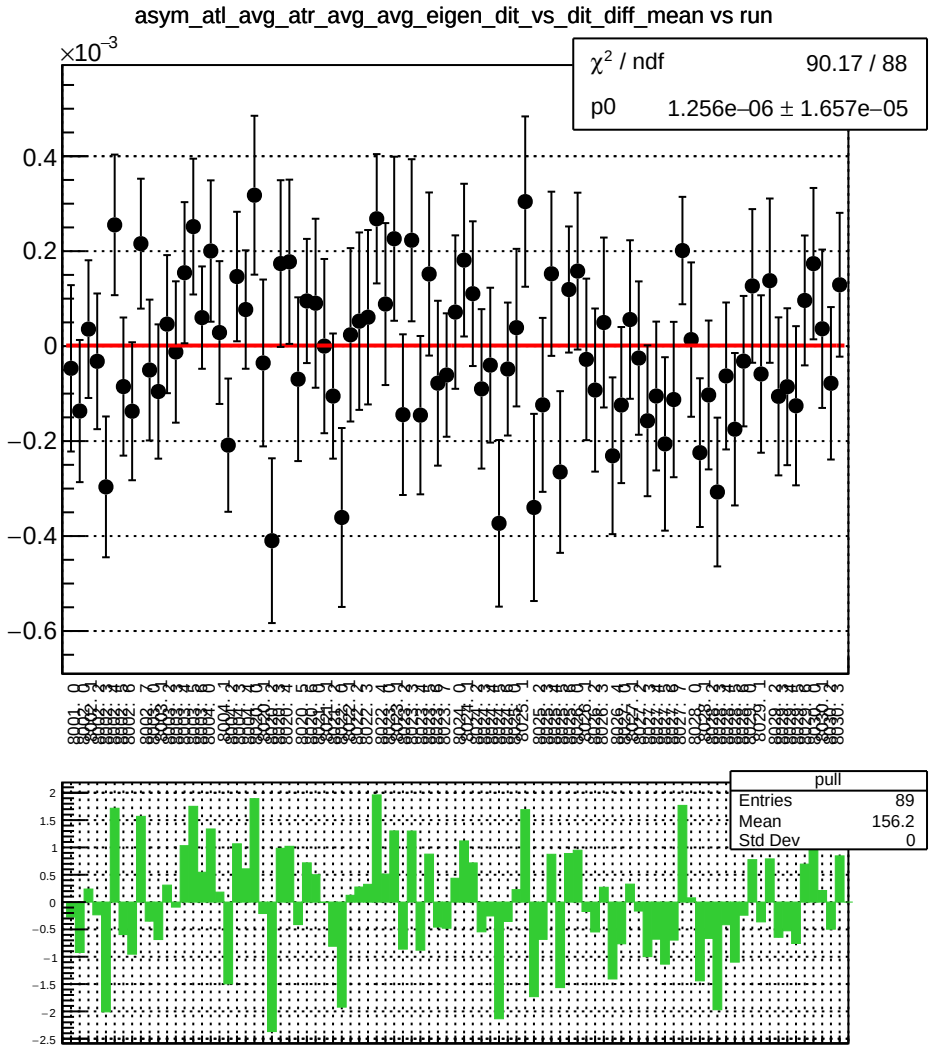

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 124.8 / 88
p0 0.1851 ± 0.2546
pull
Entries 89
Mean 85.63
Std Dev 0
pull1D
Entries 89
Mean −0.009001
Std Dev 1.184

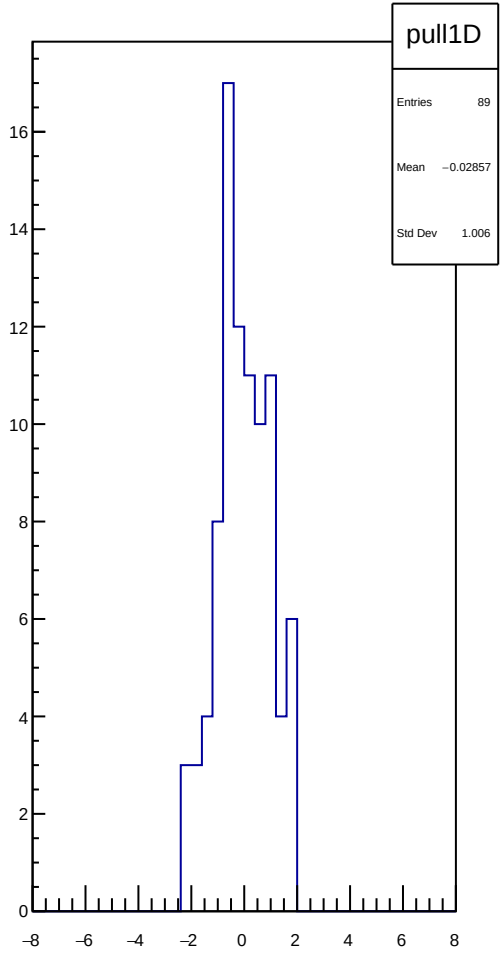

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.272e+04 / 88
p0 231.4 ± 0.18
550
500
450
400
350
300
250
200
150

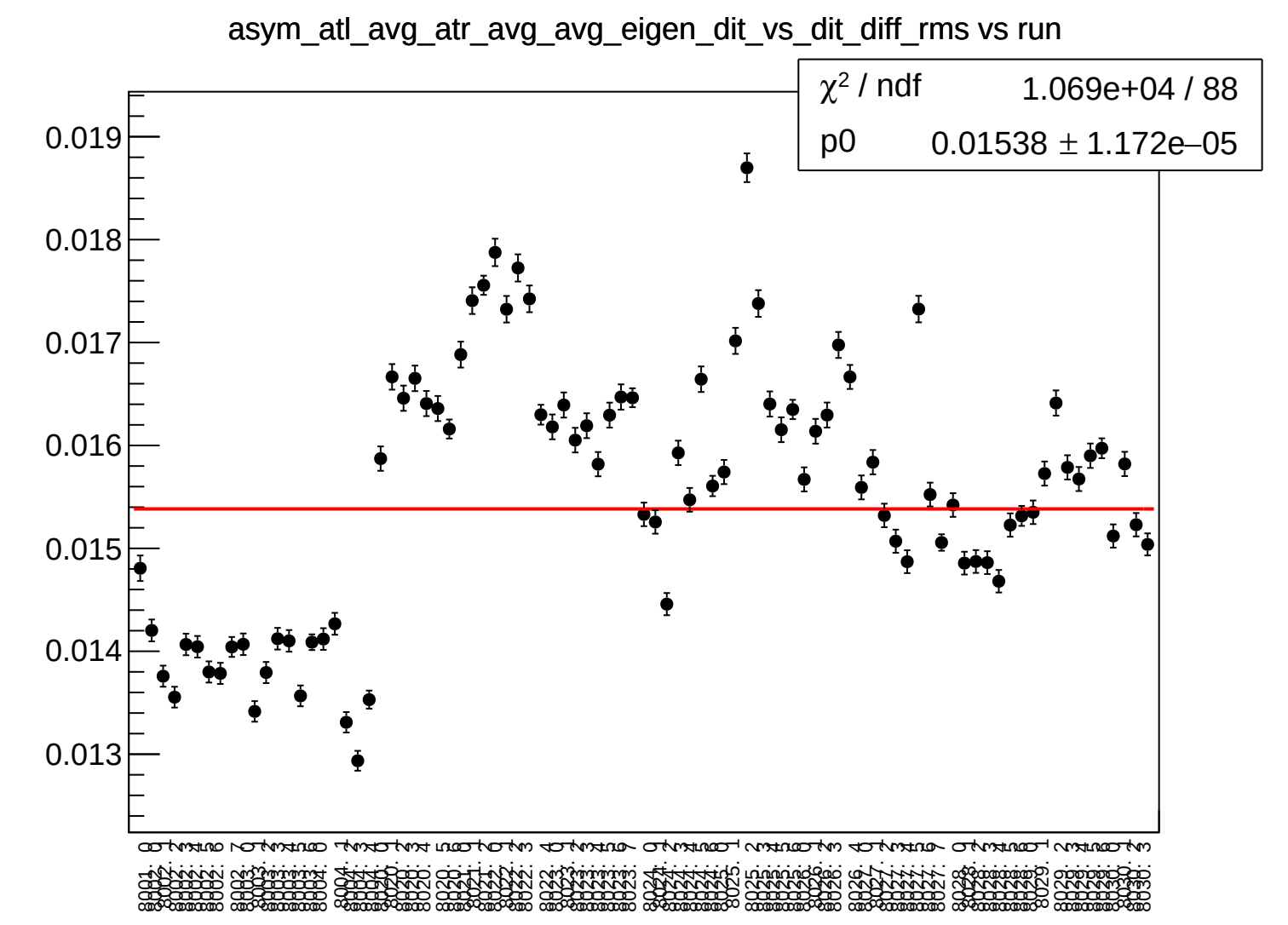

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 124.8 / 88
p0 0.1851 ± 0.2546
pull
Entries 89
Mean 85.63
Std Dev 0

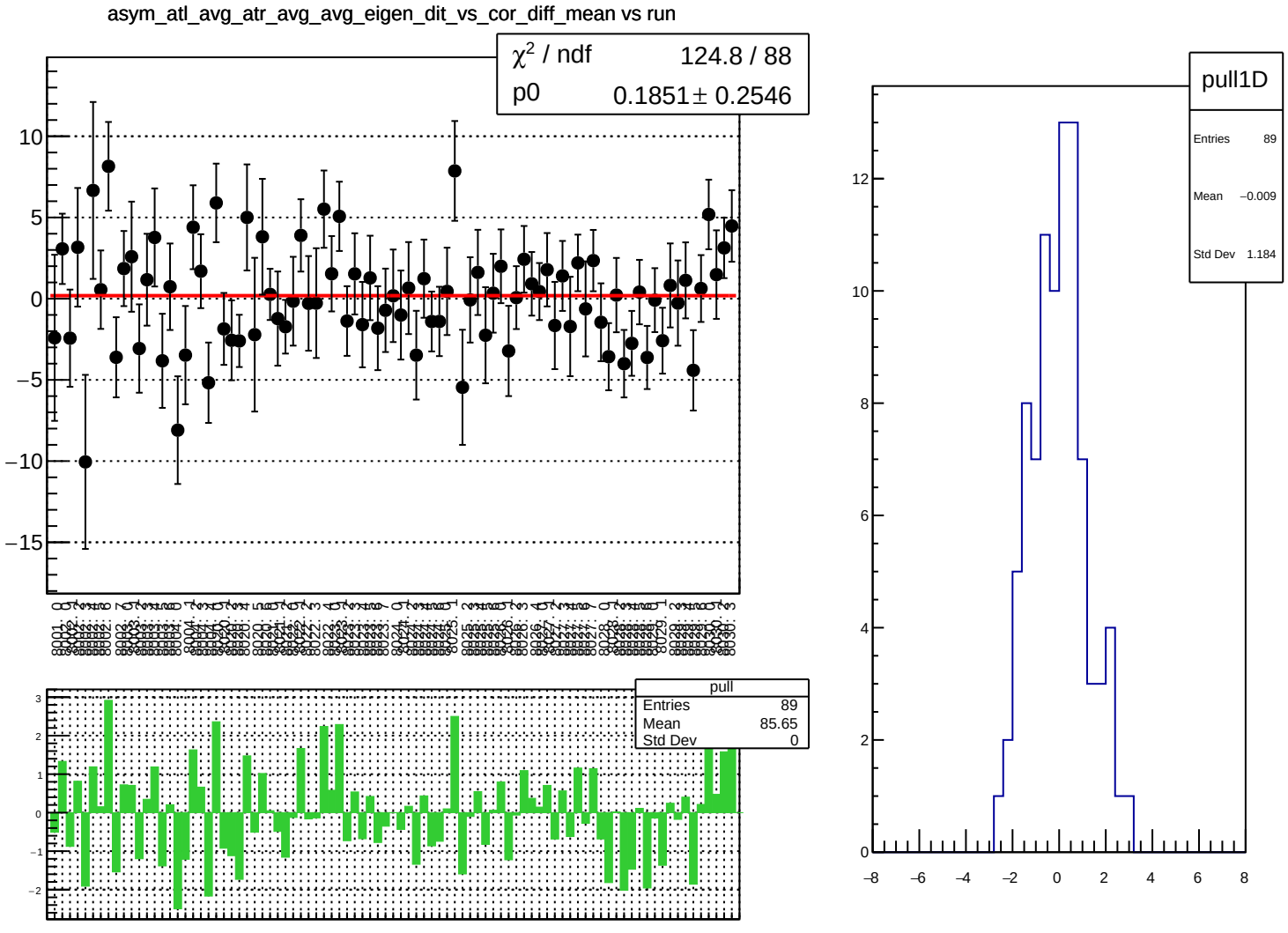

pull1D
Entries 89
Mean −0.009001
Std Dev 1.184

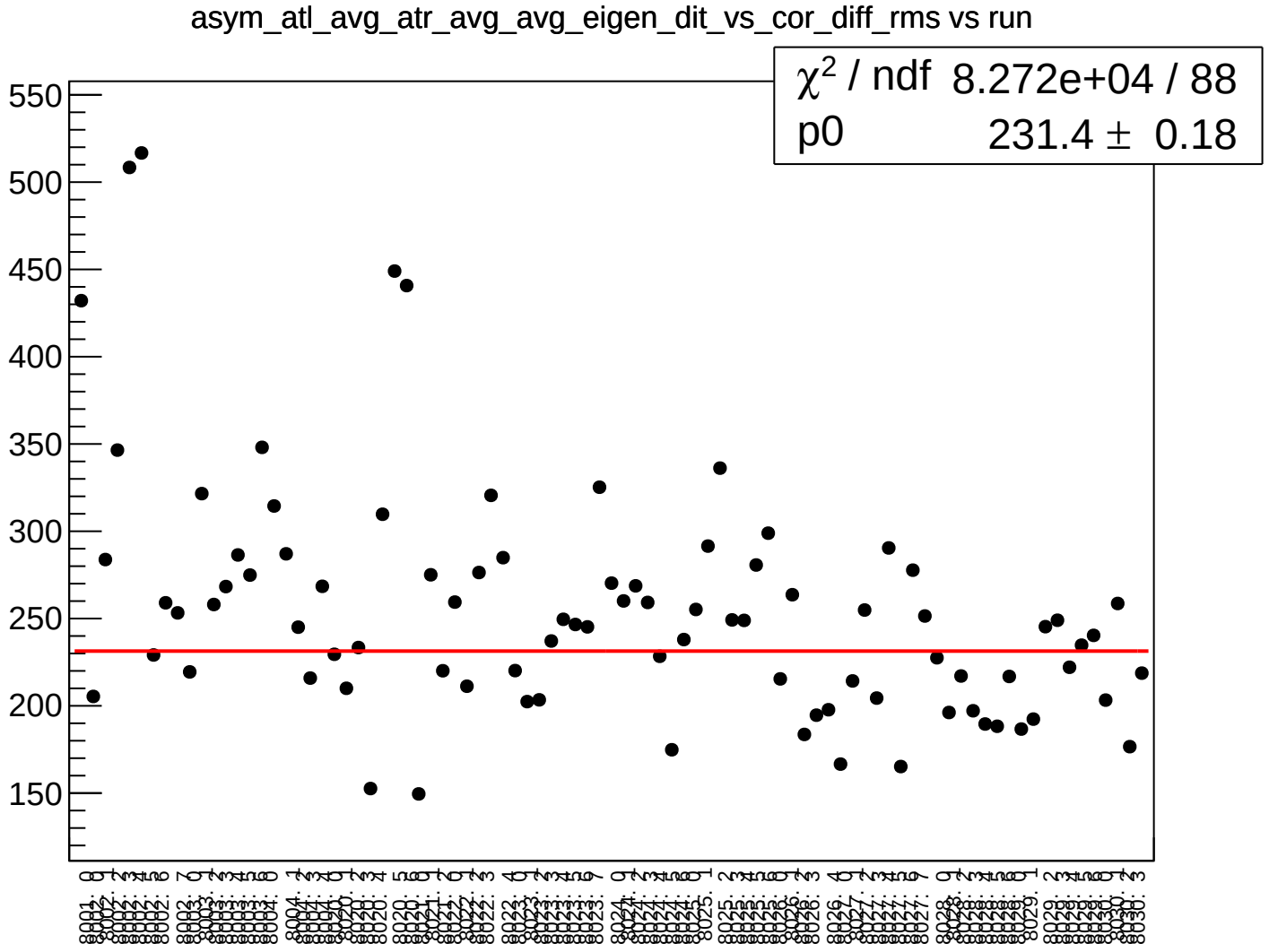

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.272e+04 / 88
p0 231.4 ± 0.18
550
500
450
400
350
300
250
200
150

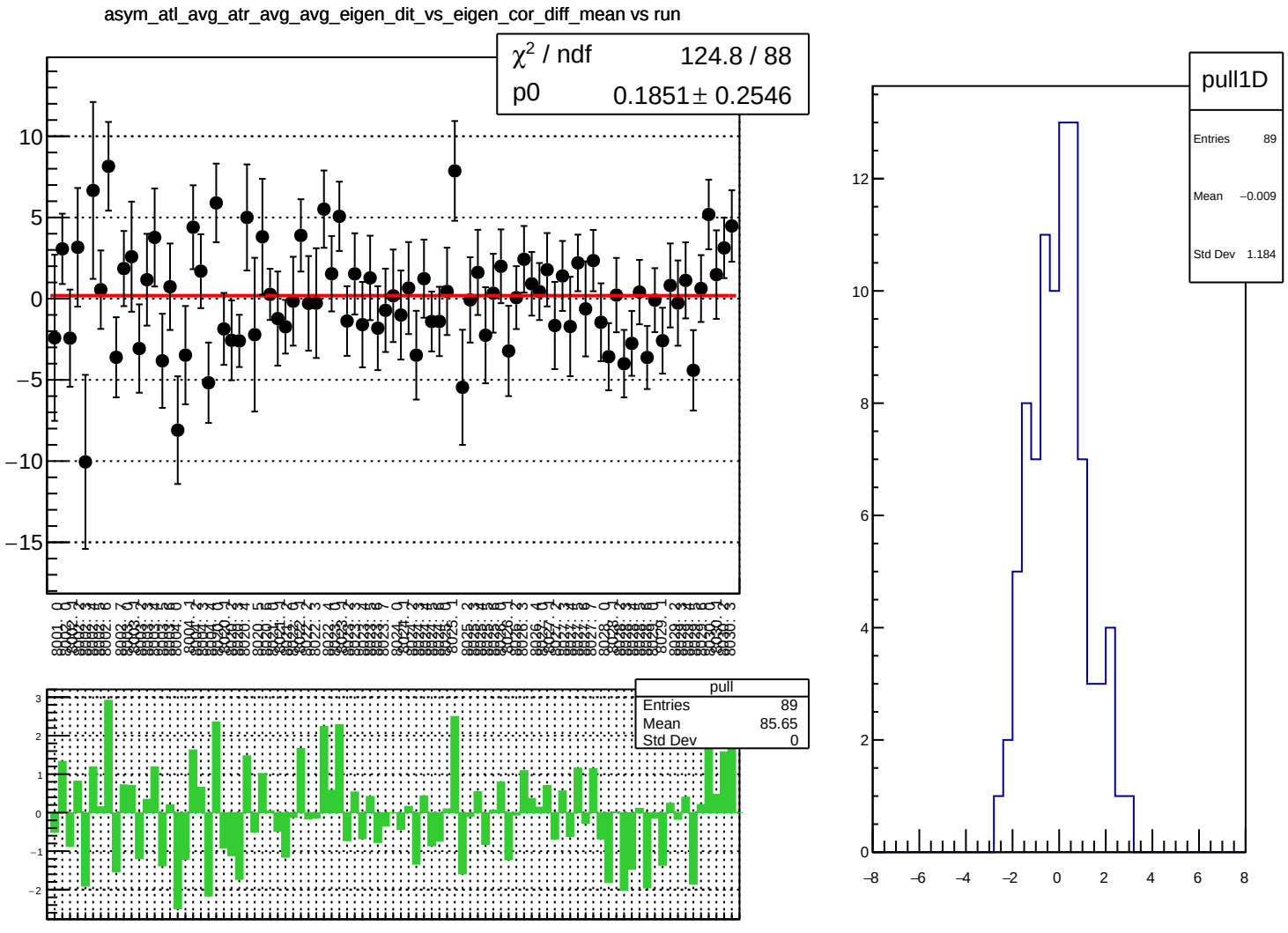

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.17 / 88
p0 1.256e−06 ± 1.657e−05
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 89
Mean 156.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

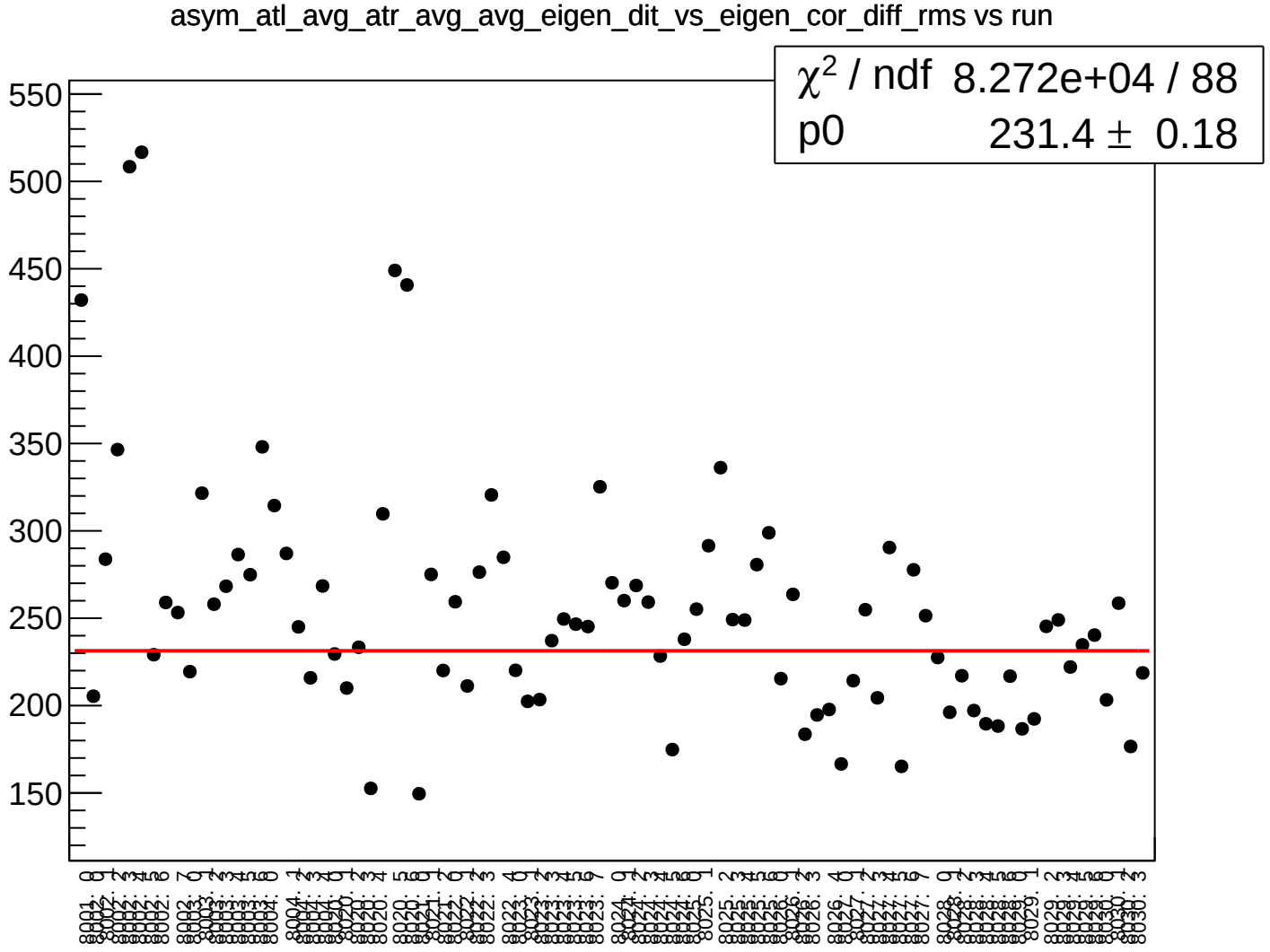

pull1D
Entries 89
Mean −0.02857
Std Dev 1.006
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

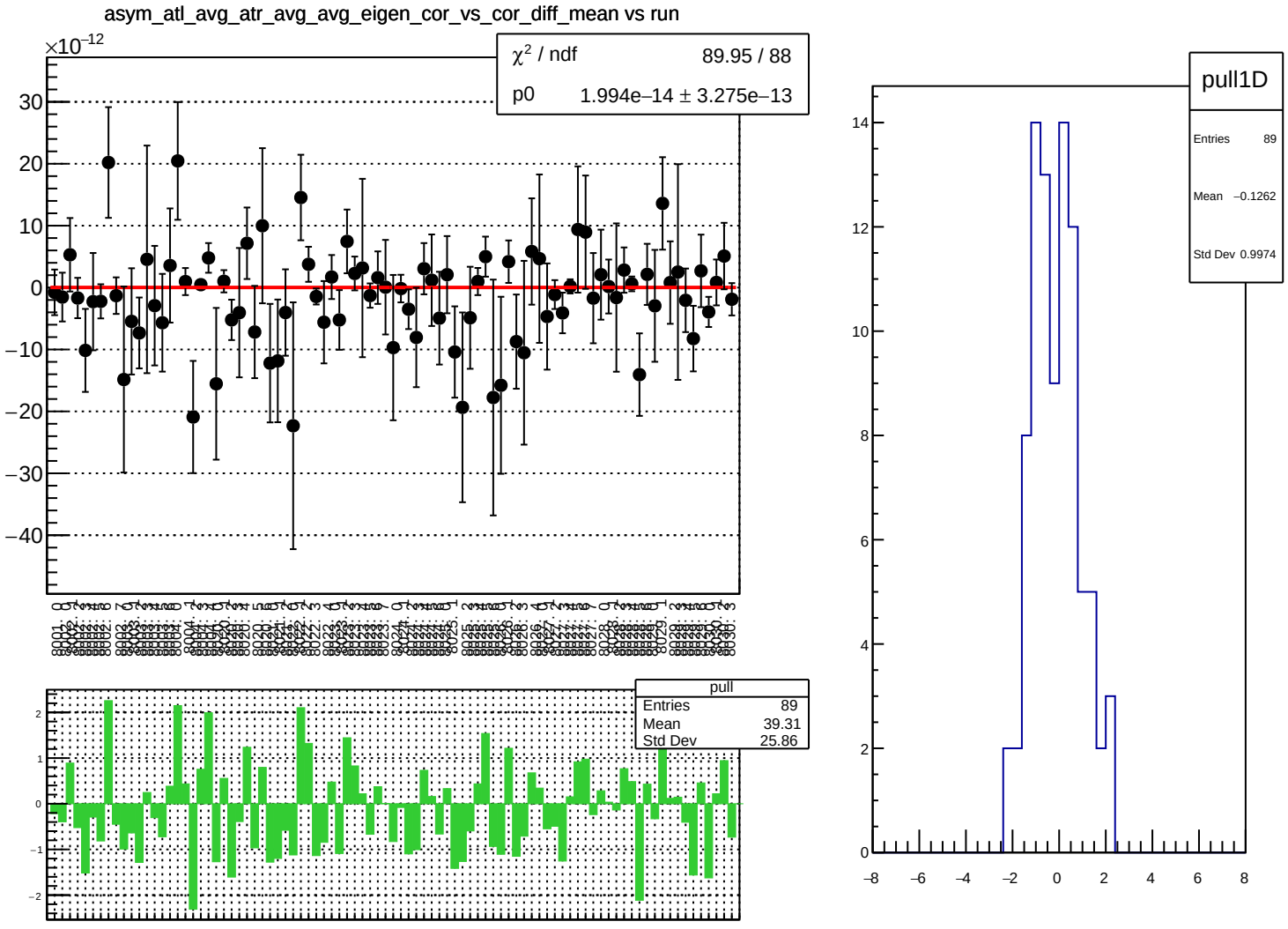

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.069e+04 / 88
p0 0.01538 ± 1.172e–05
0.019
0.018
0.017
0.016
0.015
0.014
0.013

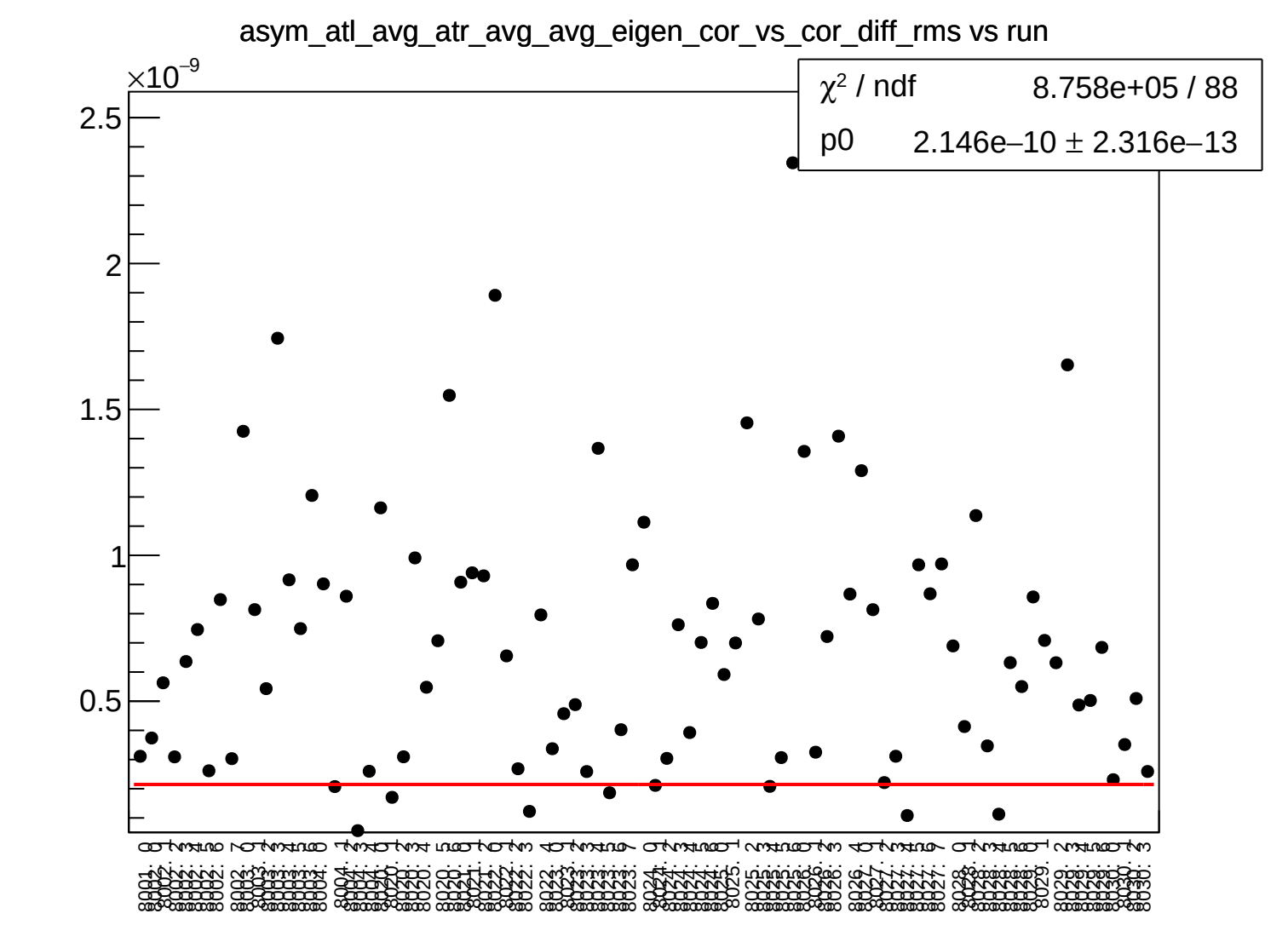

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 124.8 / 88
p0 0.1851 ± 0.2546
pull
Entries 89
Mean 85.65
Std Dev 0
pull1D
Entries 89
Mean −0.009
Std Dev 1.184

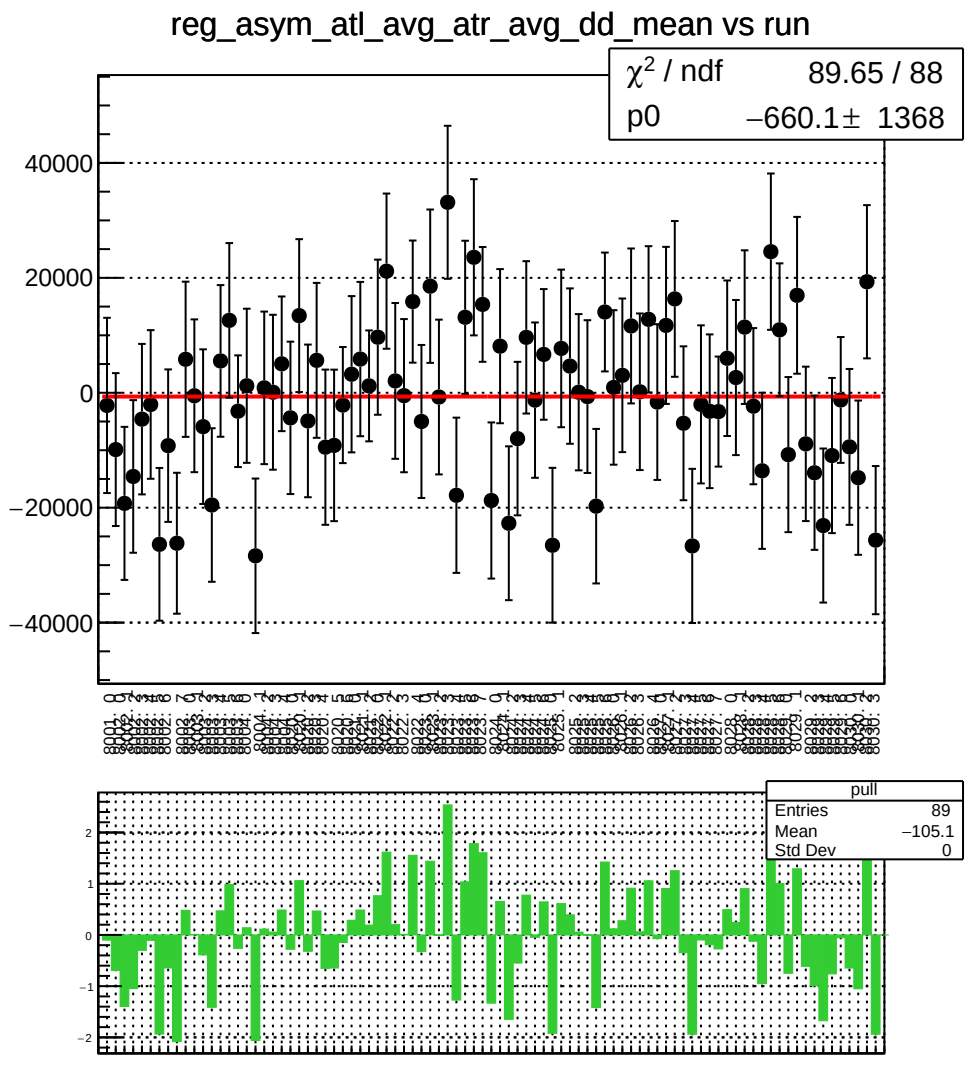

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.272e+04 / 88
p0 231.4 ± 0.18
550
500
450
400
350
300
250
200
150

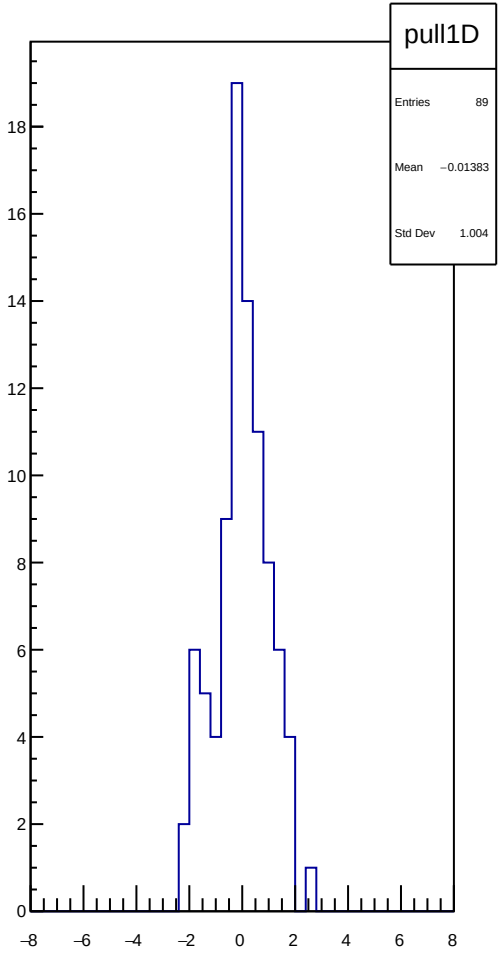

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 124.8 / 88
p0 0.1851 ± 0.2546
pull
Entries 89
Mean 85.65
Std Dev 0
pull1D
Entries 89
Mean −0.009
Std Dev 1.184

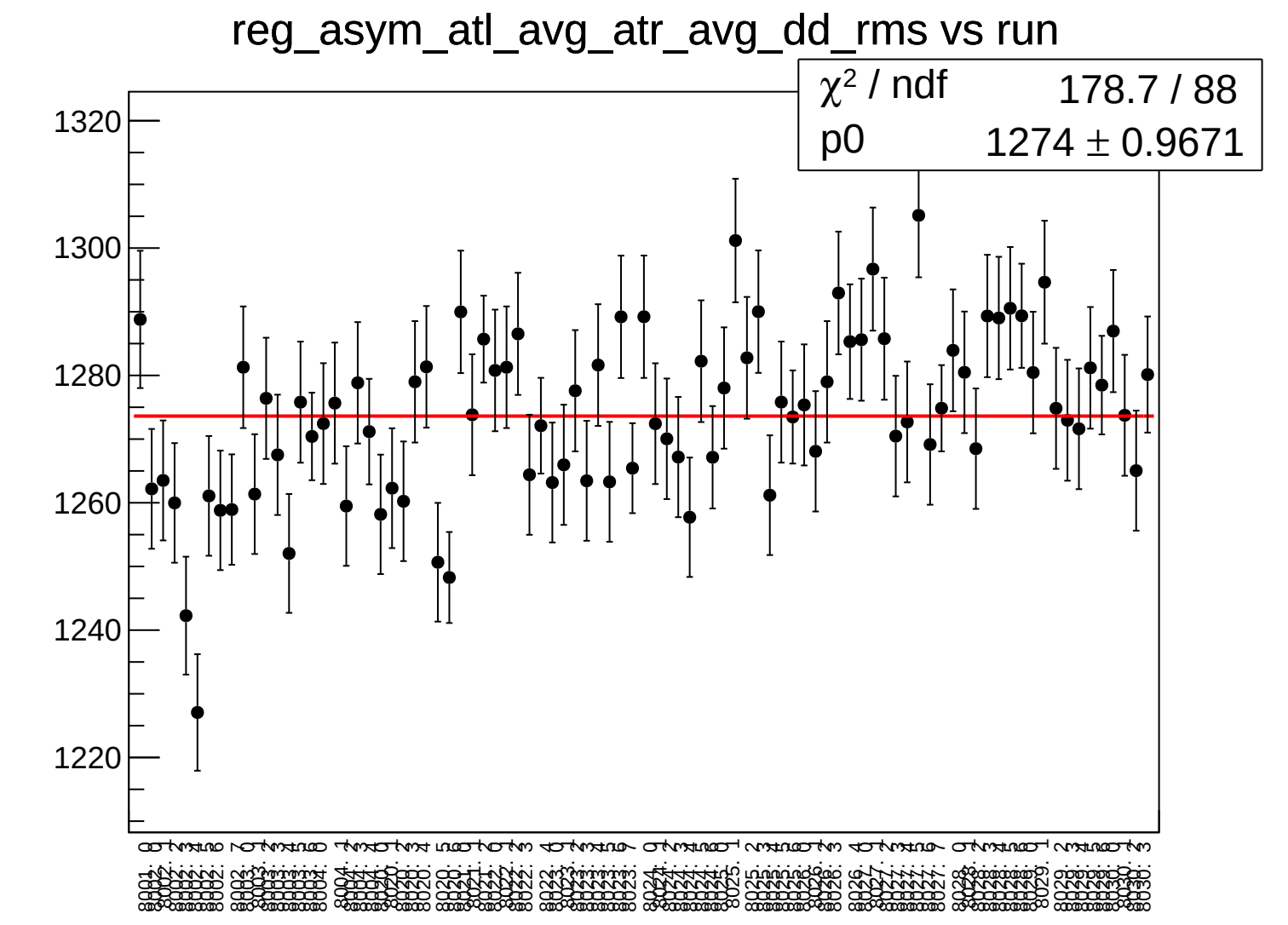

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.272e+04 / 88
p0 231.4 ± 0.18
550
500
450
400
350
300
250
200
150

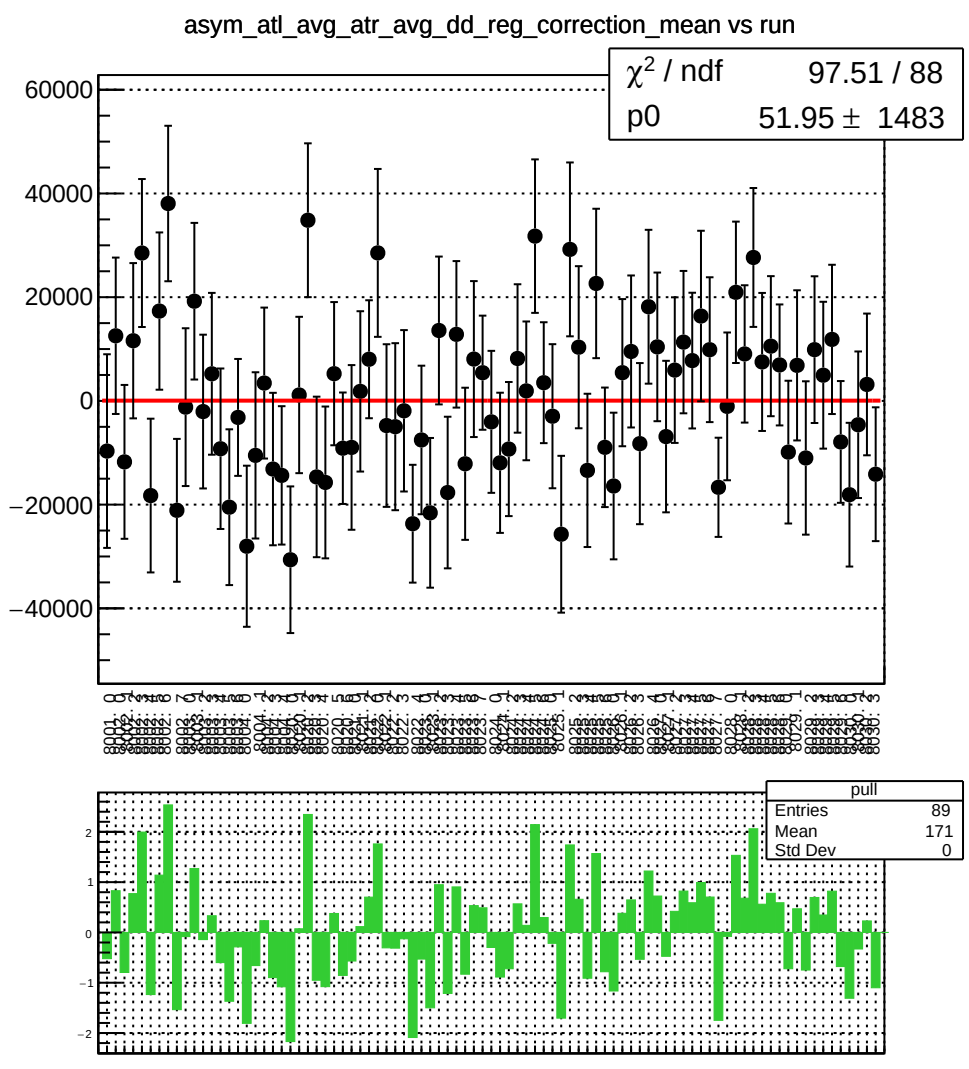

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 89.95 / 88
p0 1.994e−14 ± 3.275e−13
pull
Entries 89
Mean 39.31
Std Dev 25.86
pull1D
Entries 89
Mean −0.1262
Std Dev 0.9974

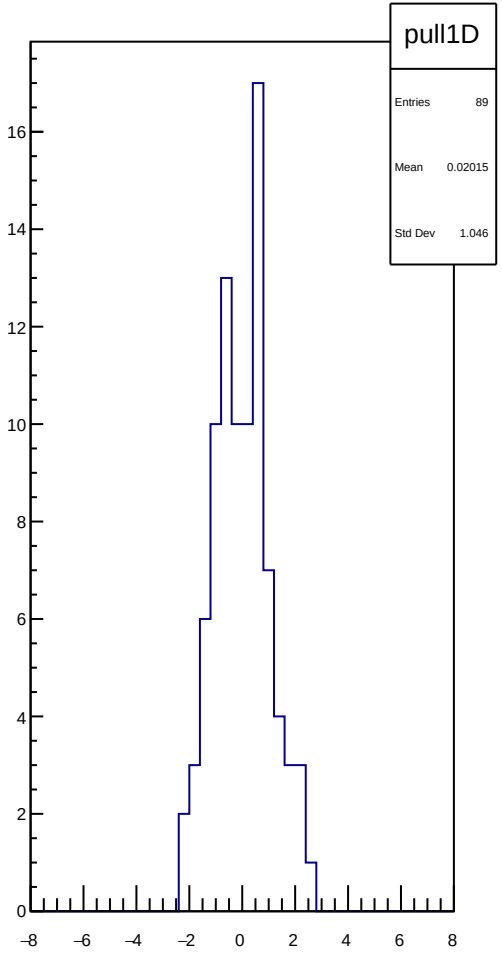

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.758e+05 / 88
p0 2.146e−10 ± 2.316e−13
2.5
2
1.5
1
0.5

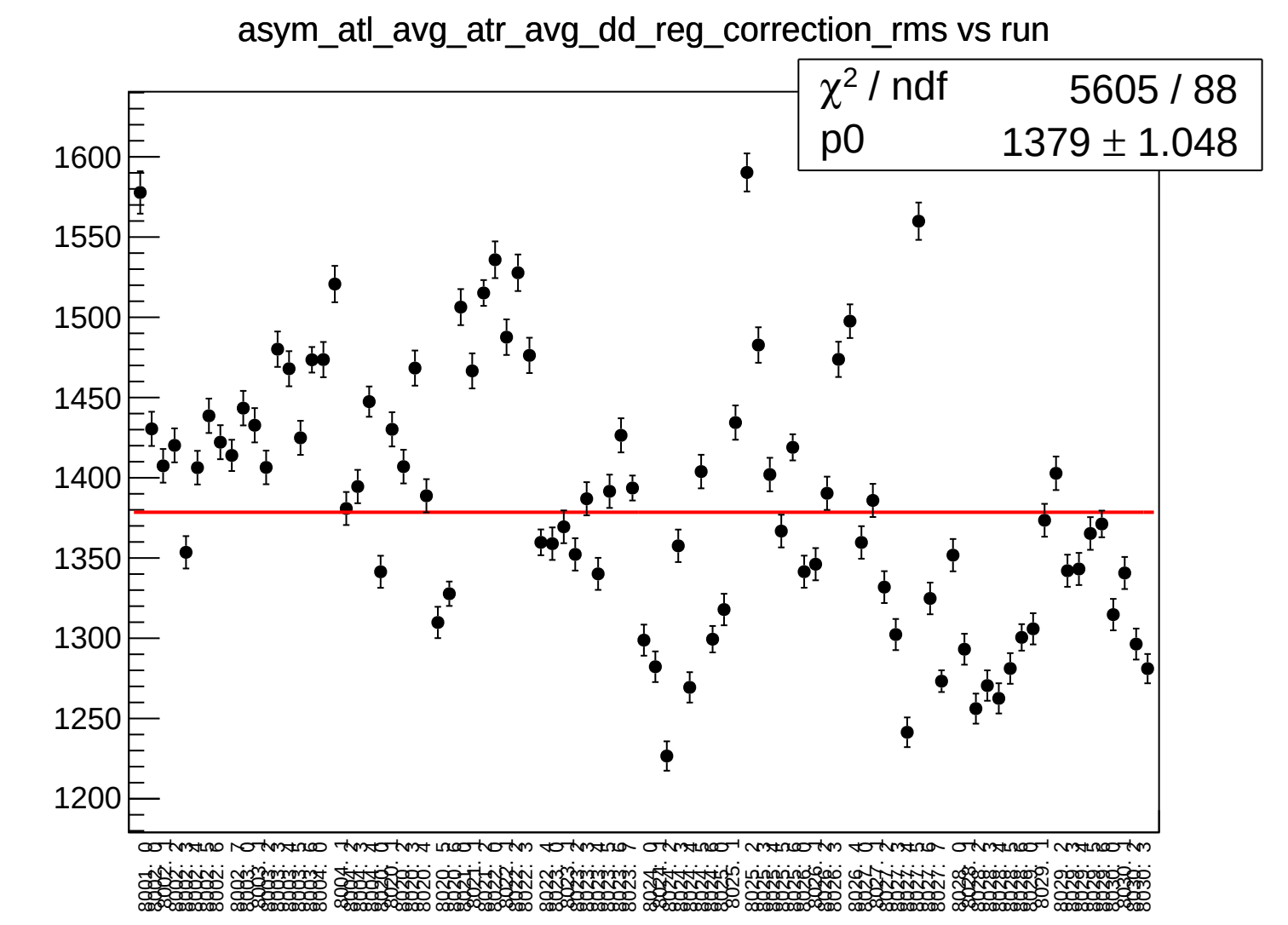

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 89.65 / 88
p0 −660.1± 1368
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −105.1
Std Dev 0
2
1
0
−1
−2

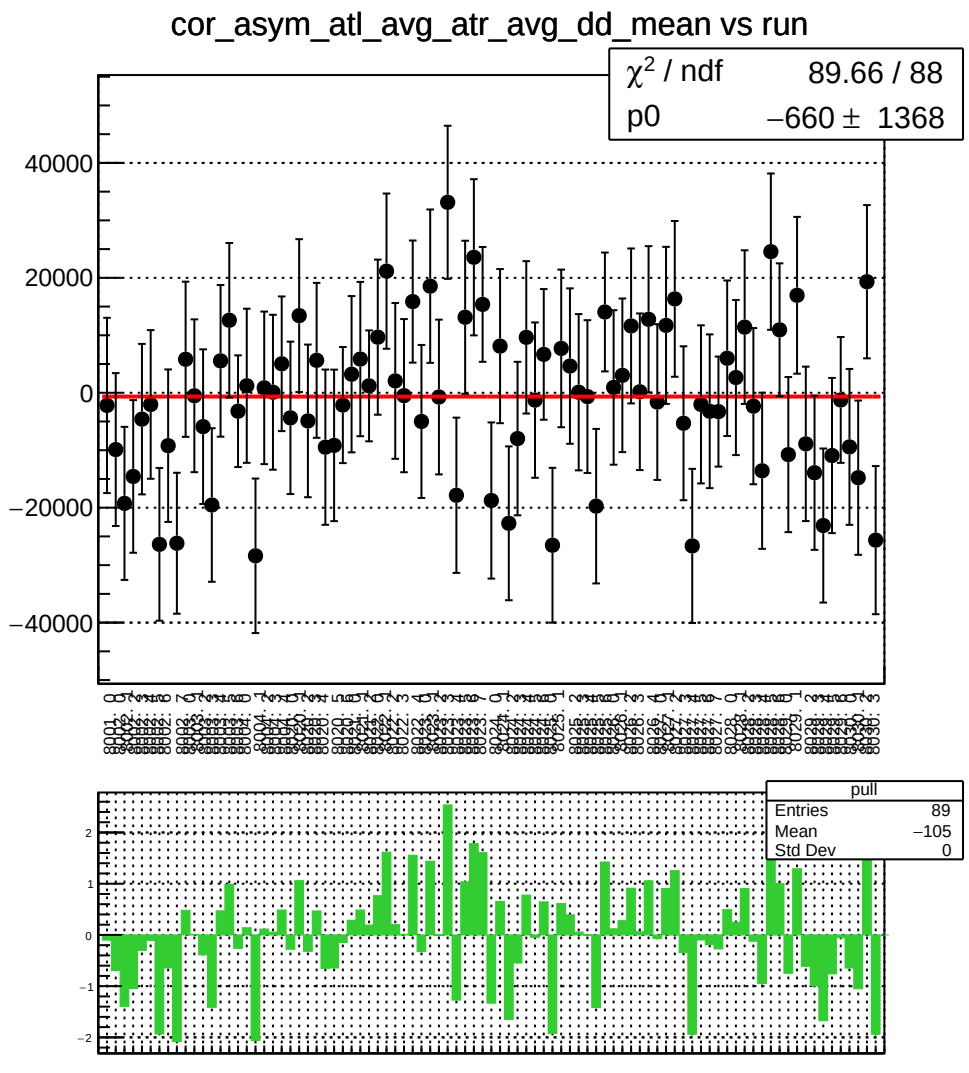

pull1D
Entries 89
Mean −0.01383
Std Dev 1.004
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

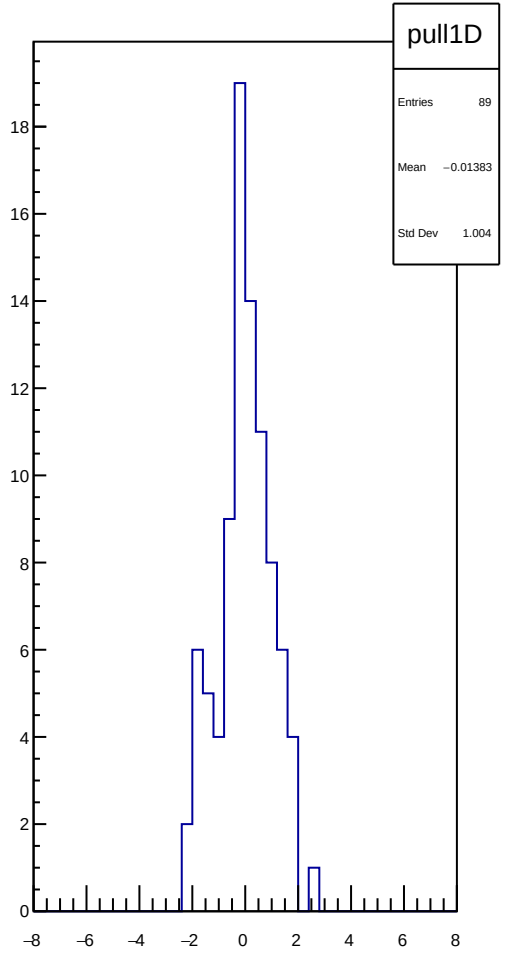

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 178.7 / 88
p0 1274 ± 0.9671
1320
1300
1280
1260
1240
1220

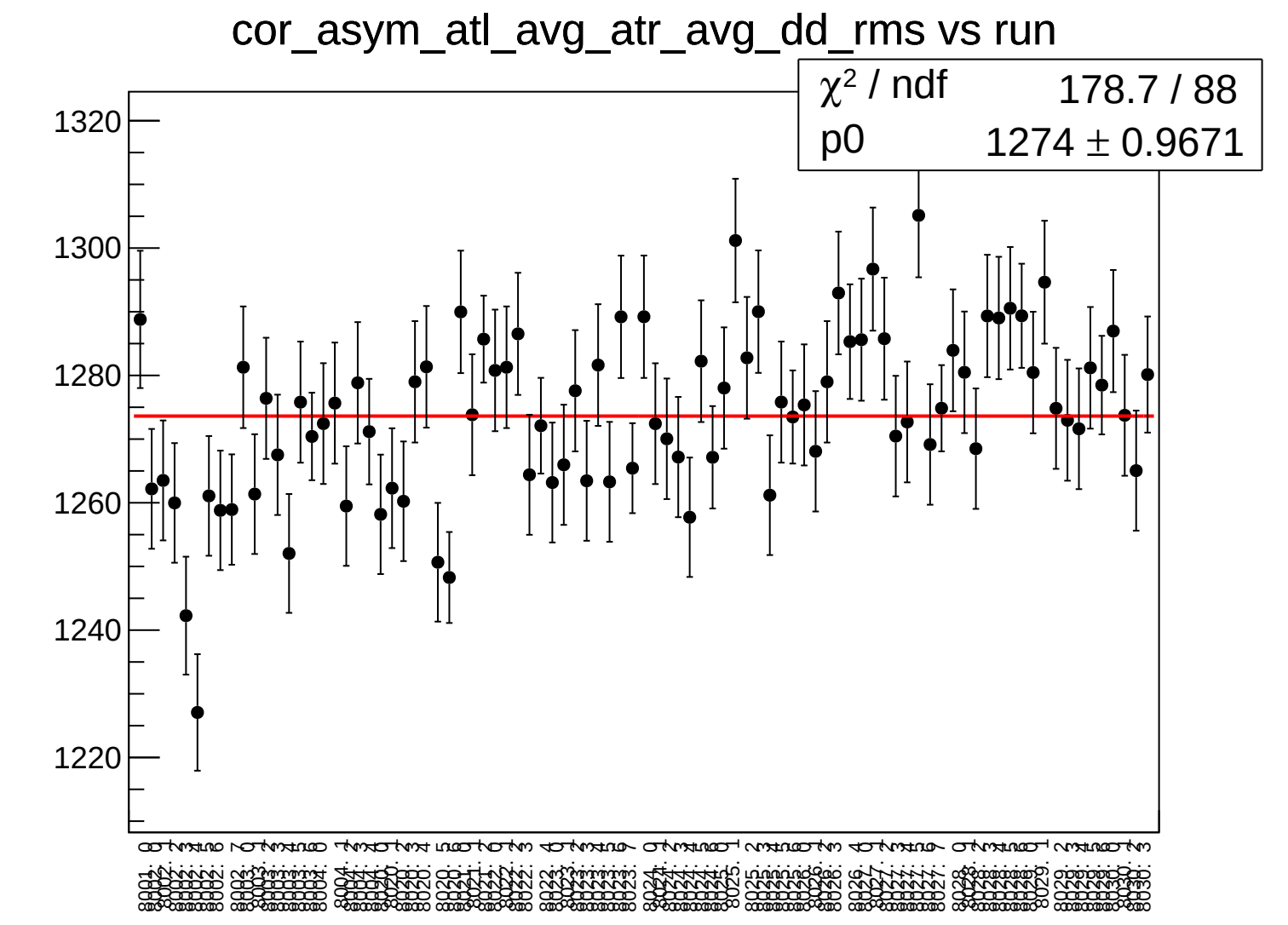

asym_atl_avg_atr_avg_dd_reg_correction_mean vs run
χ² / ndf 97.51 / 88
p0 51.95 ± 1483
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 171
Std Dev 0
2
1
0
−1
−2

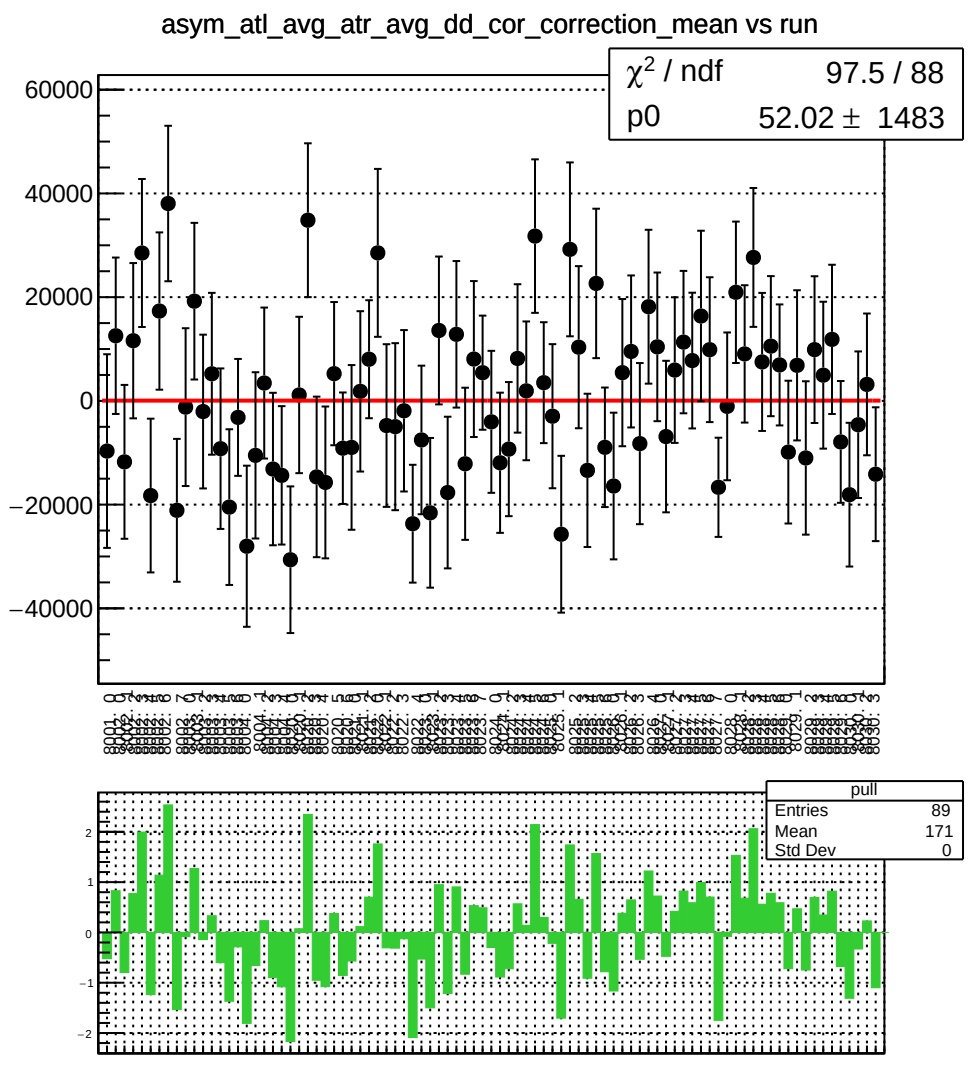

pull1D
Entries 89
Mean 0.02015
Std Dev 1.046
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

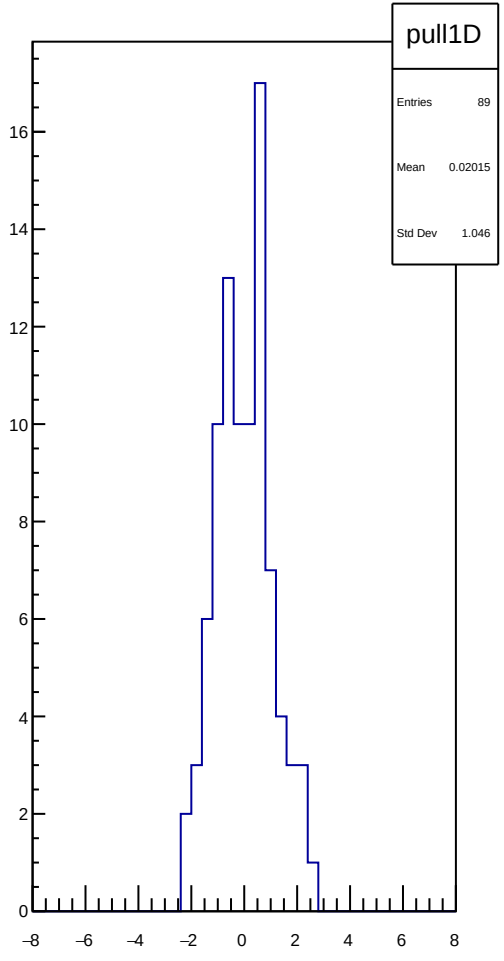

asym_atl_avg_atr_avg_dd_reg_correction_rms vs run
χ² / ndf 5605 / 88
p0 1379 ± 1.048
1600
1550
1500
1450
1400
1350
1300
1250
1200

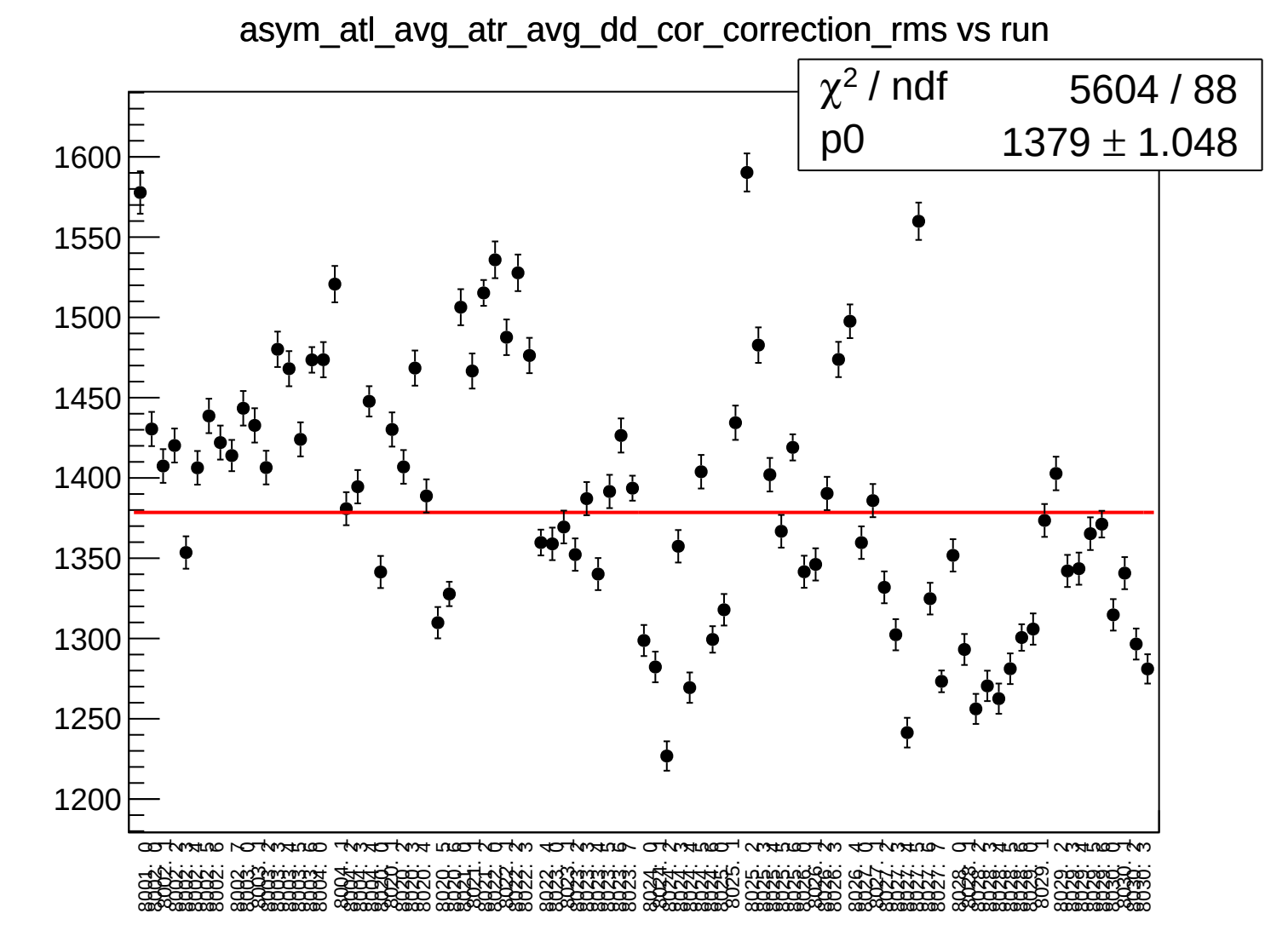

cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 89.66 / 88
p0 −660 ± 1368
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −105
Std Dev 0
2
1
0
−1
−2

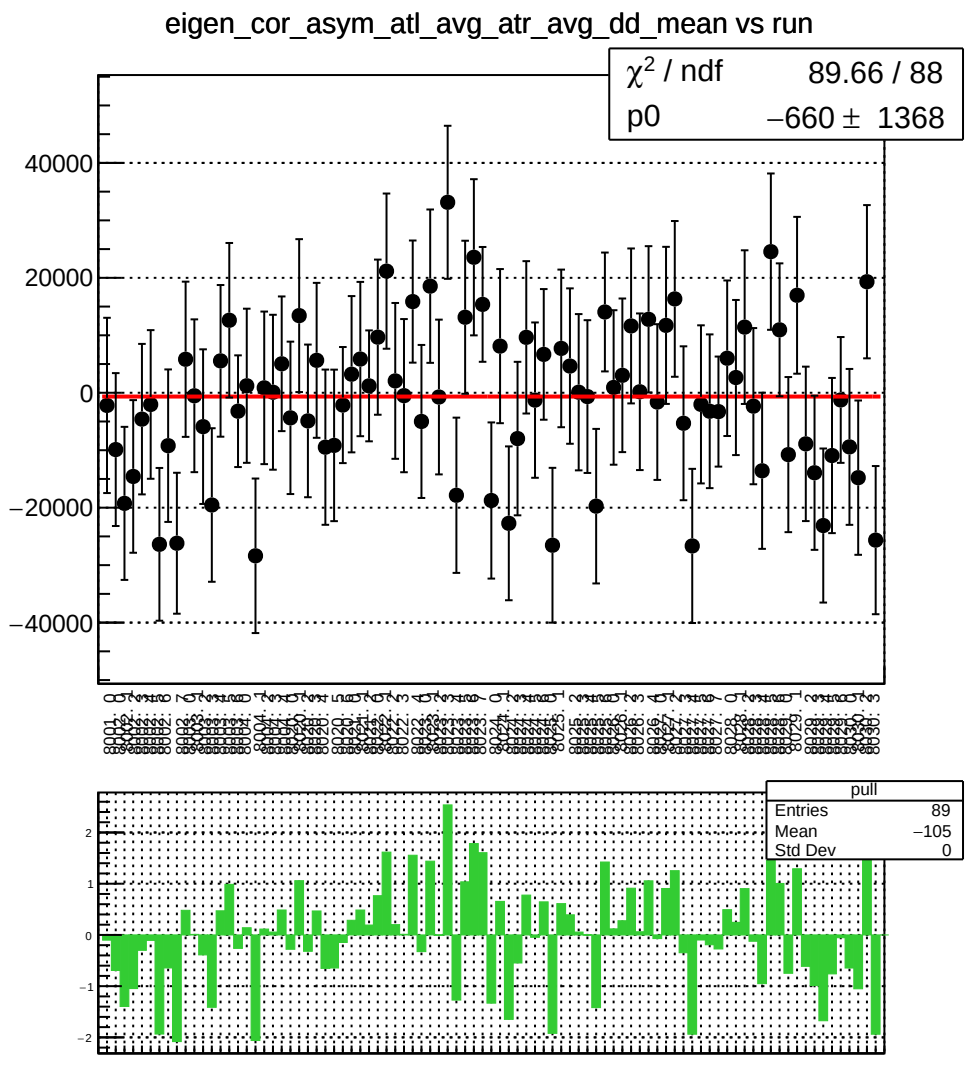

pull1D
Entries 89
Mean −0.01383
Std Dev 1.004
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

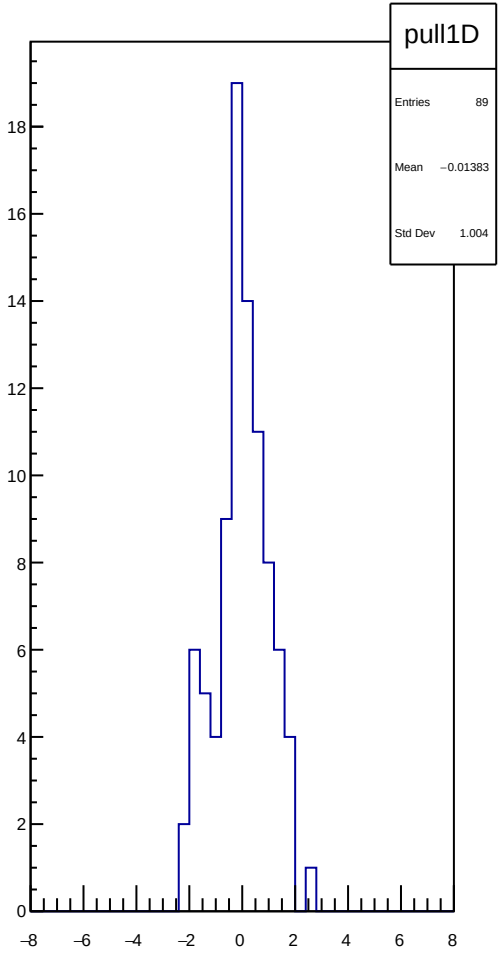

cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 178.7 / 88
p0 1274 ± 0.9671
1320
1300
1280
1260
1240
1220

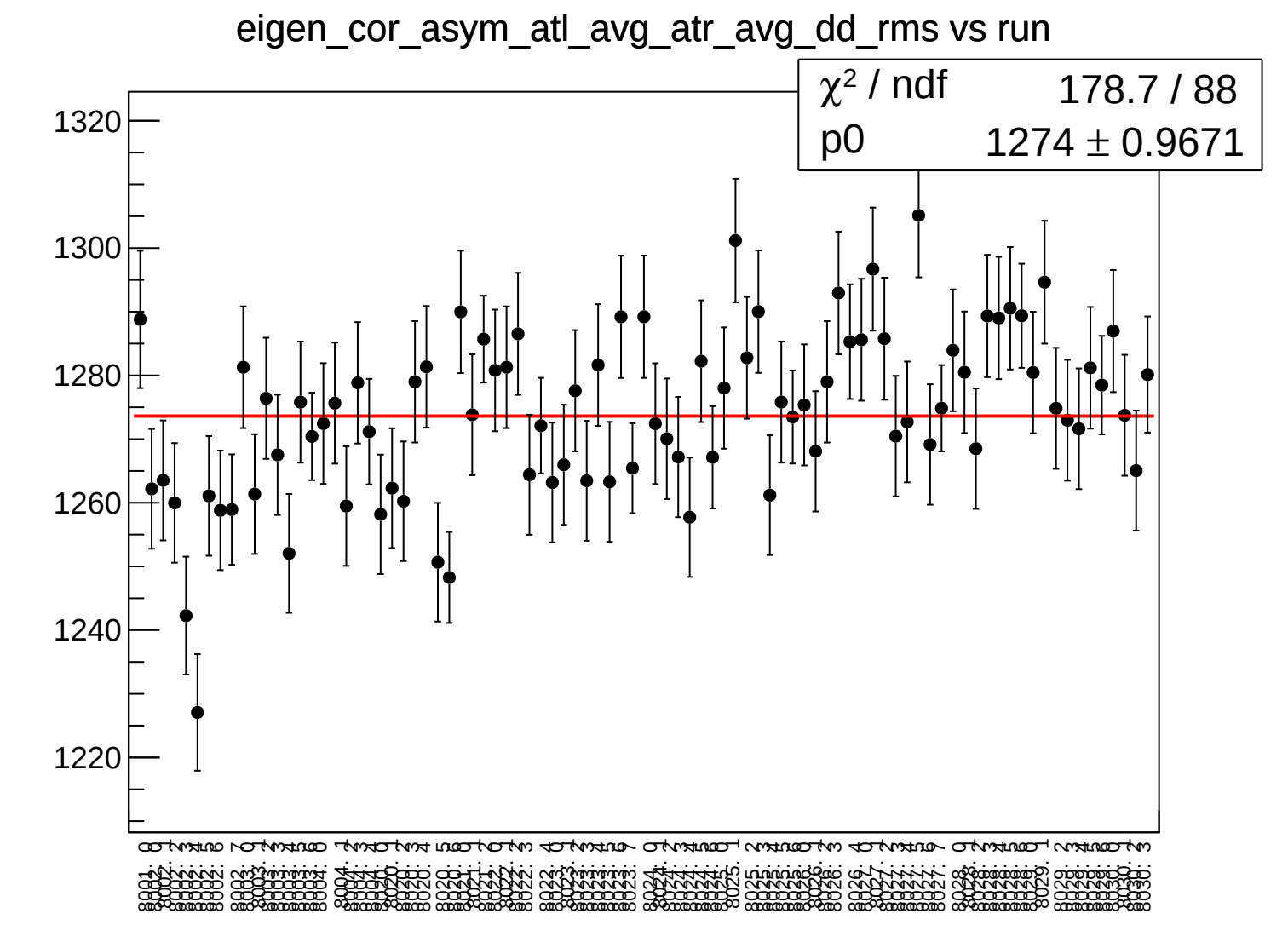

asym_atl_avg_atr_avg_dd_cor_correction_mean vs run
χ² / ndf 97.5 / 88
p0 52.02 ± 1483
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 171
Std Dev 0
2
1
0
−1
−2

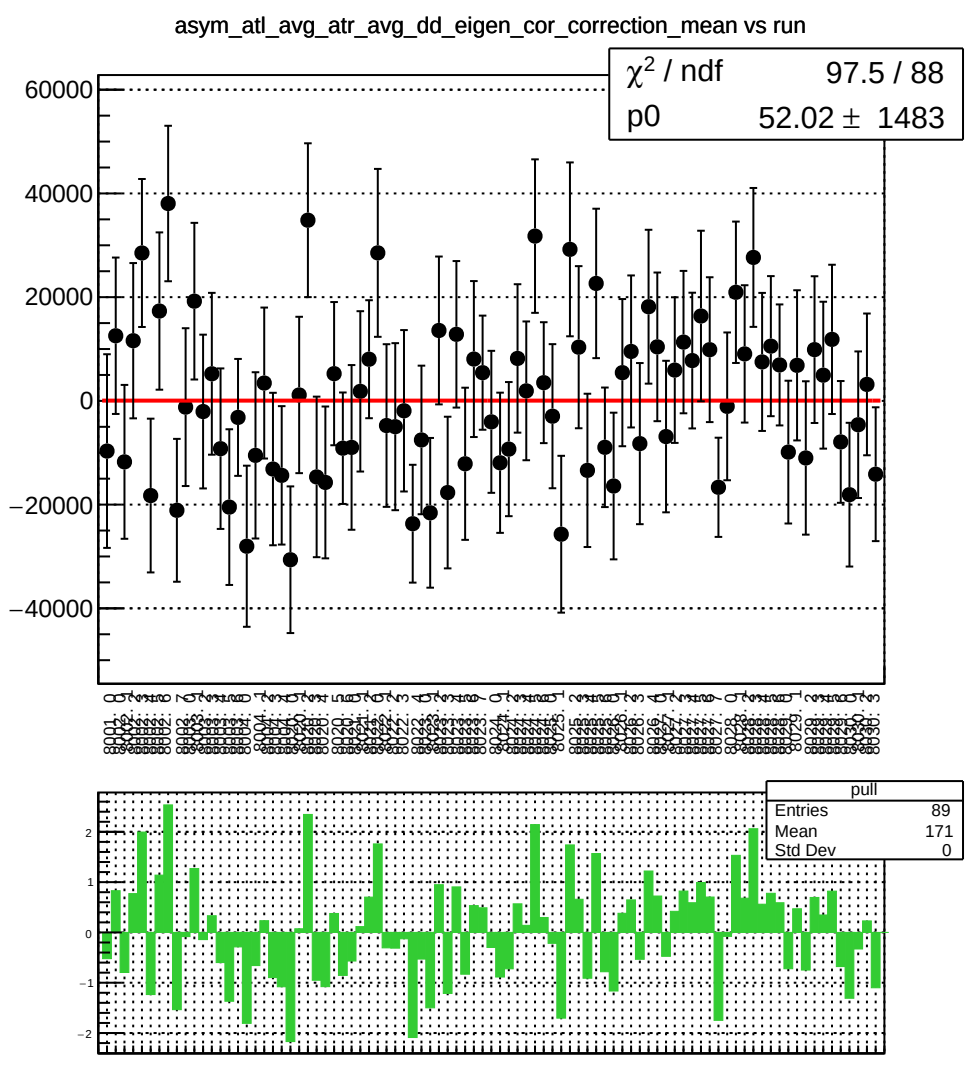

pull1D
Entries 89
Mean 0.02015
Std Dev 1.046
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

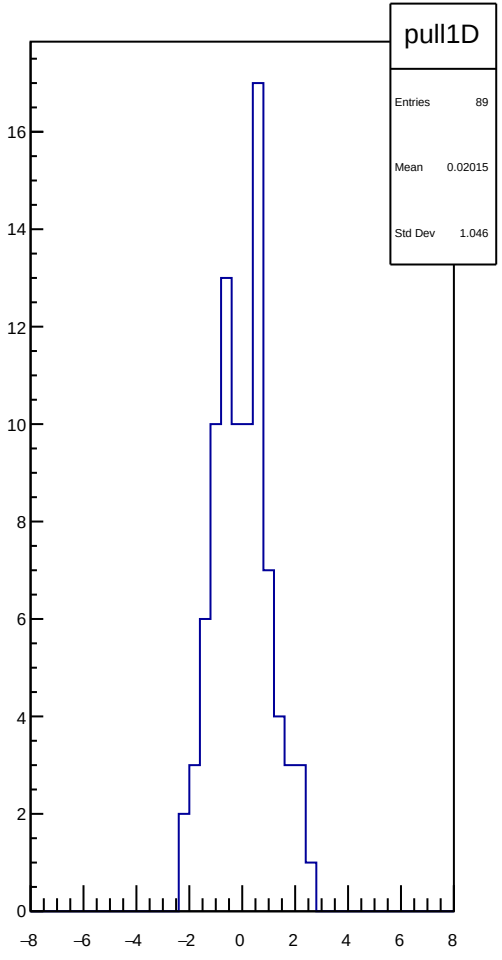

asym_atl_avg_atr_avg_dd_cor_correction_rms vs run
χ² / ndf 5604 / 88
p0 1379 ± 1.048
1600
1550
1500
1450
1400
1350
1300
1250
1200

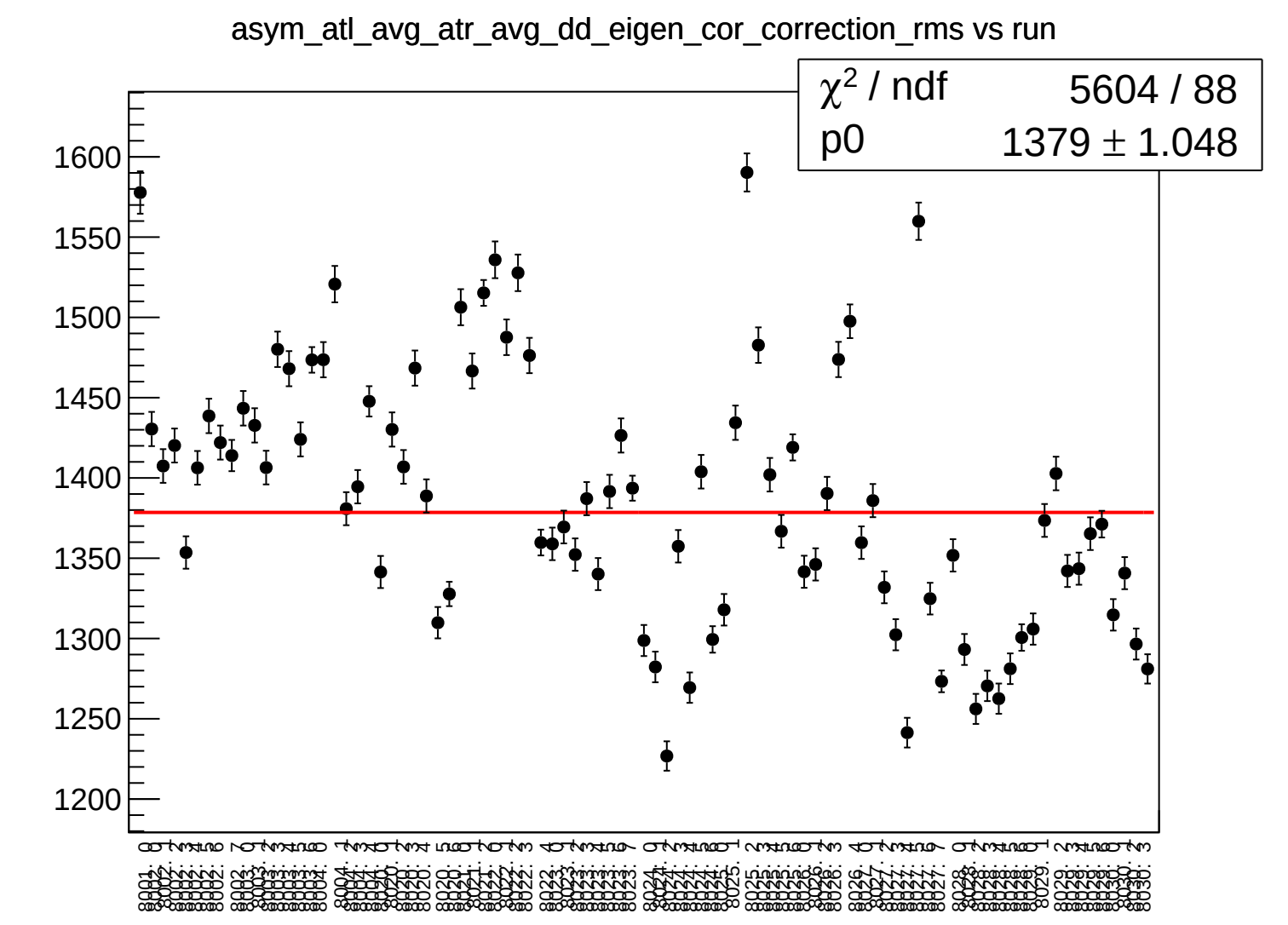

eigen_cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 89.66 / 88
p0 −660 ± 1368
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −105
Std Dev 0
2
1
0
−1
−2

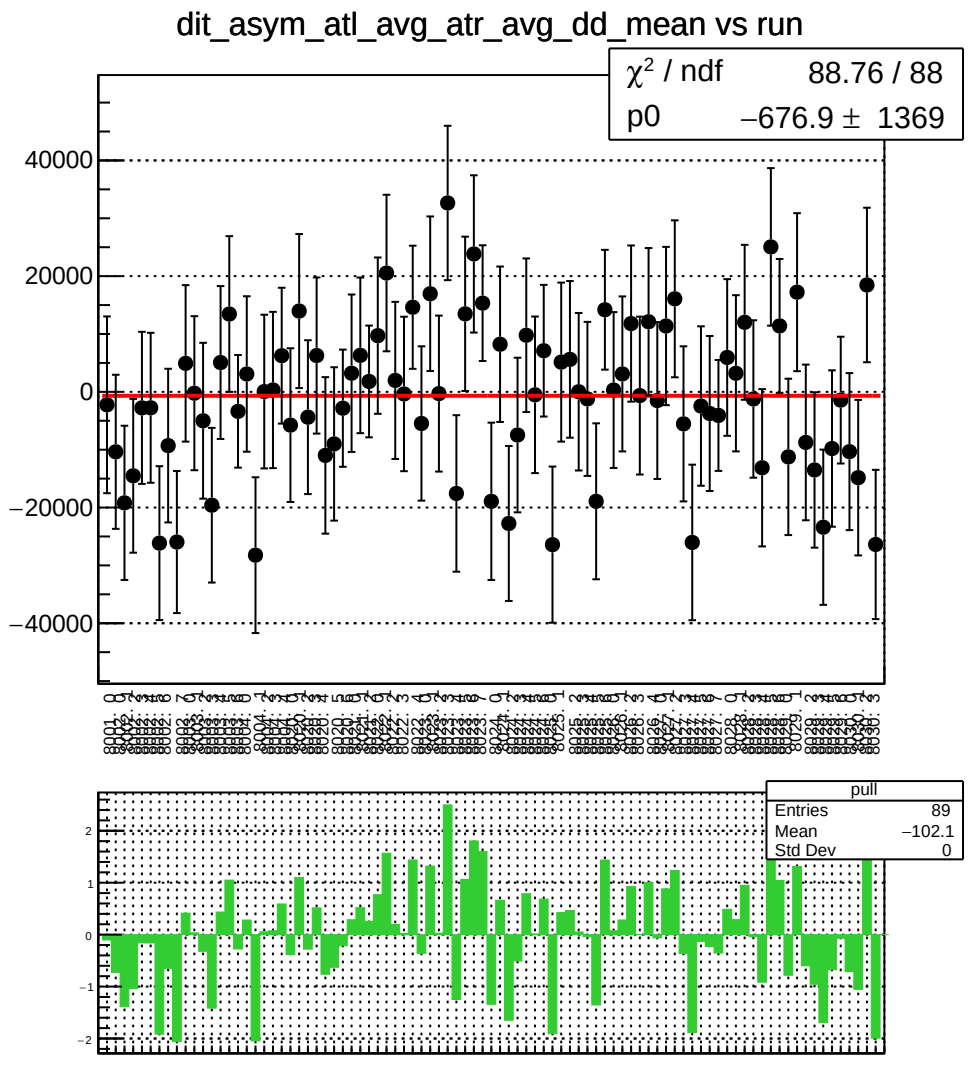

pull1D
Entries 89
Mean −0.01383
Std Dev 1.004
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

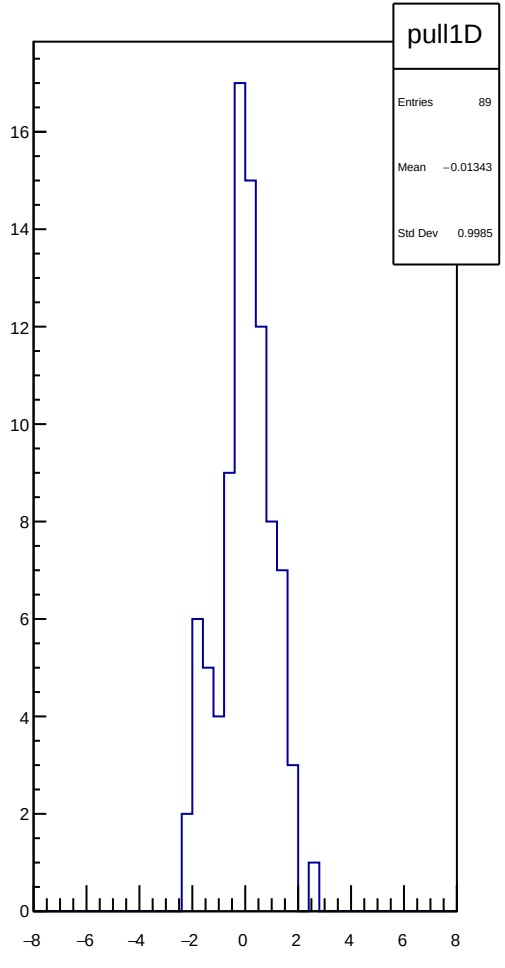

eigen_cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 178.7 / 88
p0 1274 ± 0.9671
1320
1300
1280
1260
1240
1220

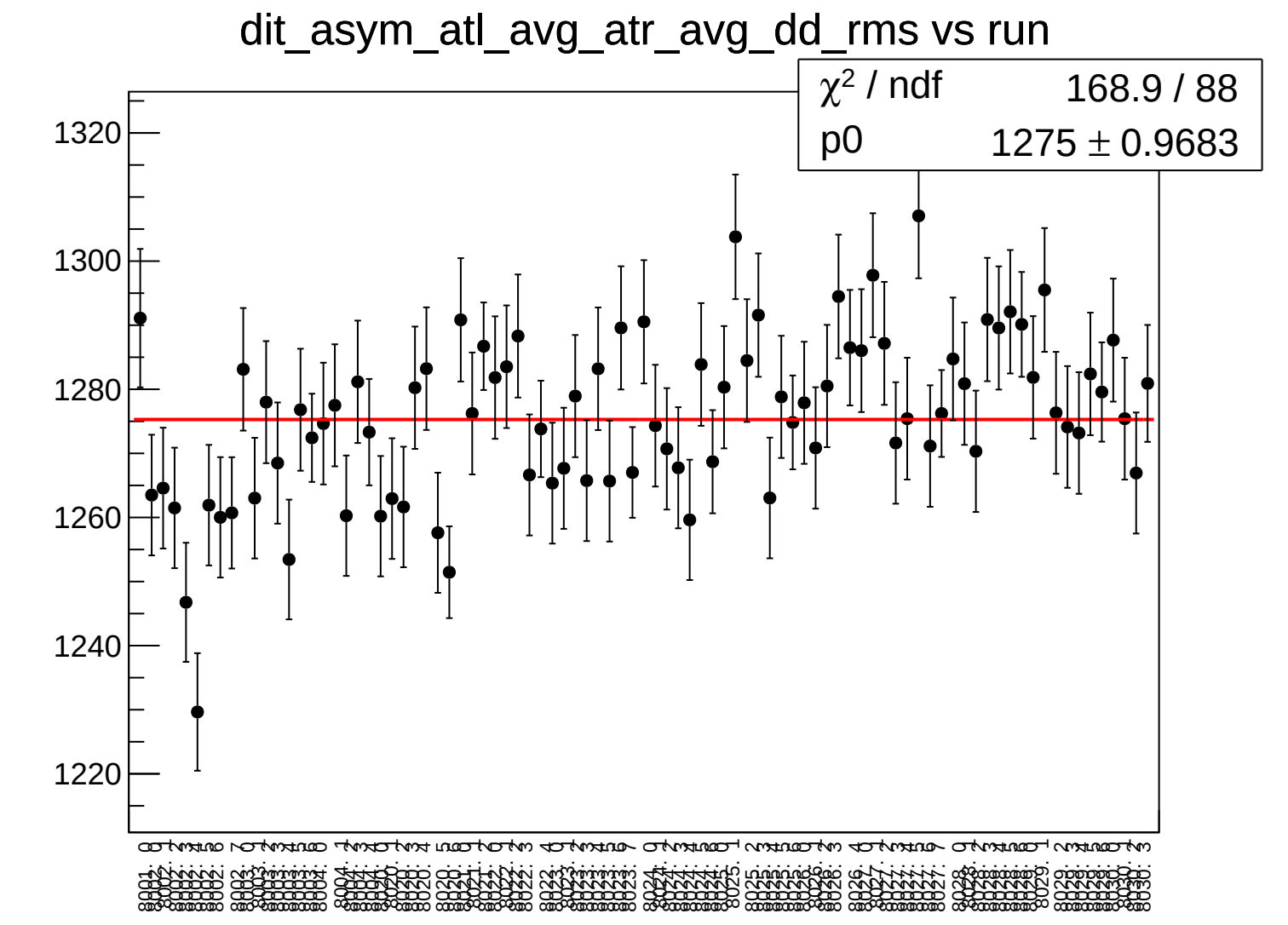

asym_atl_avg_atr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 97.5 / 88
p0 52.02 ± 1483
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 171
Std Dev 0
2
1
0
−1
−2

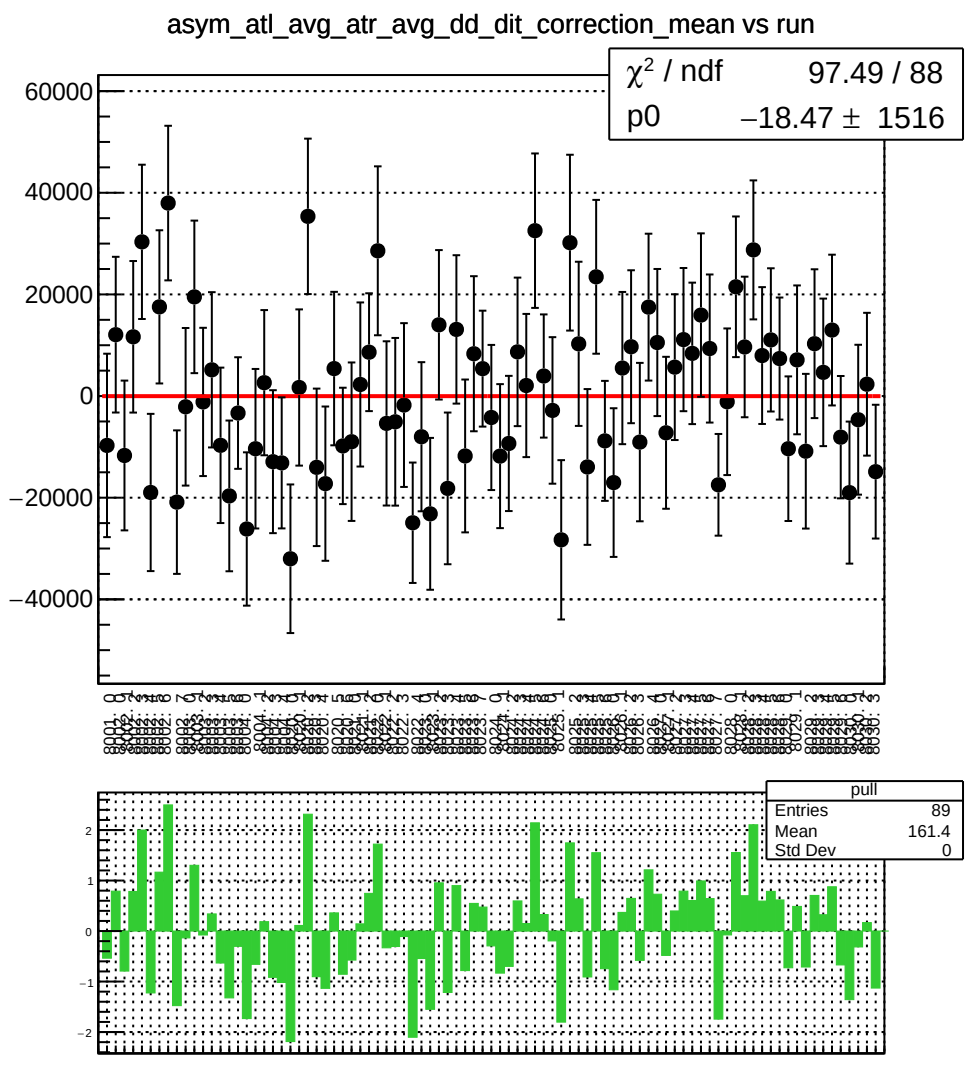

pull1D
Entries 89
Mean 0.02015
Std Dev 1.046
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

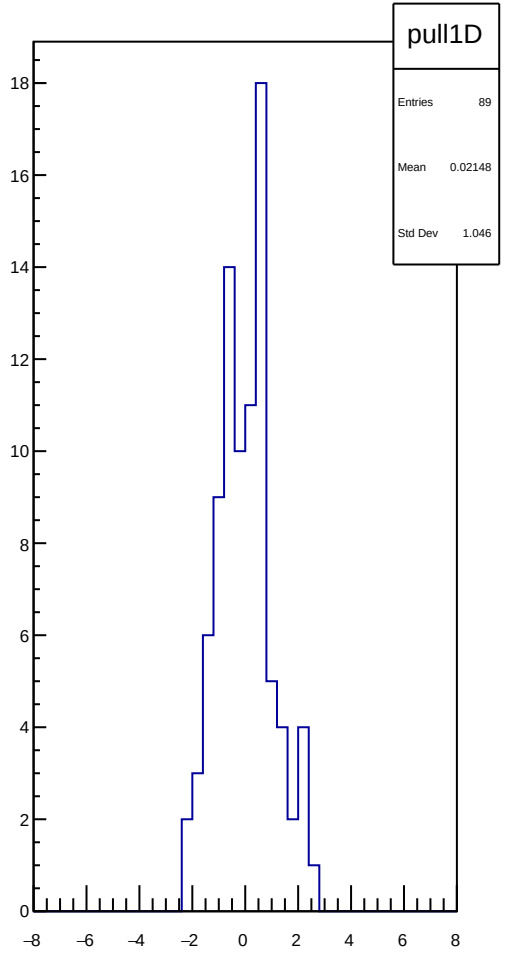

asym_atl_avg_atr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 5604 / 88
p0 1379 ± 1.048
1600
1550
1500
1450
1400
1350
1300
1250
1200

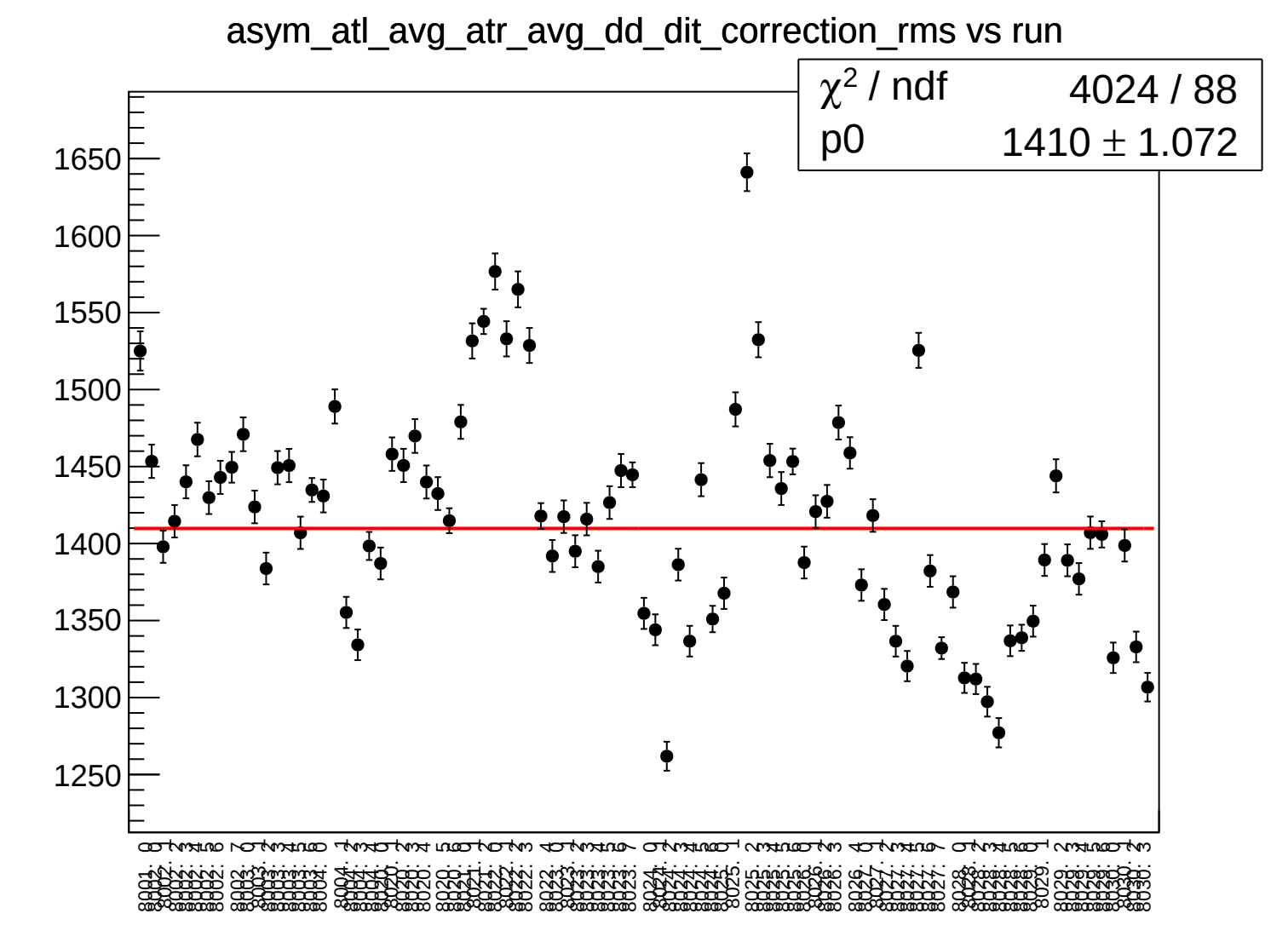

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 88.76 / 88
p0 −676.9 ± 1369
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −102.1
Std Dev 0
2
1
0
−1
−2

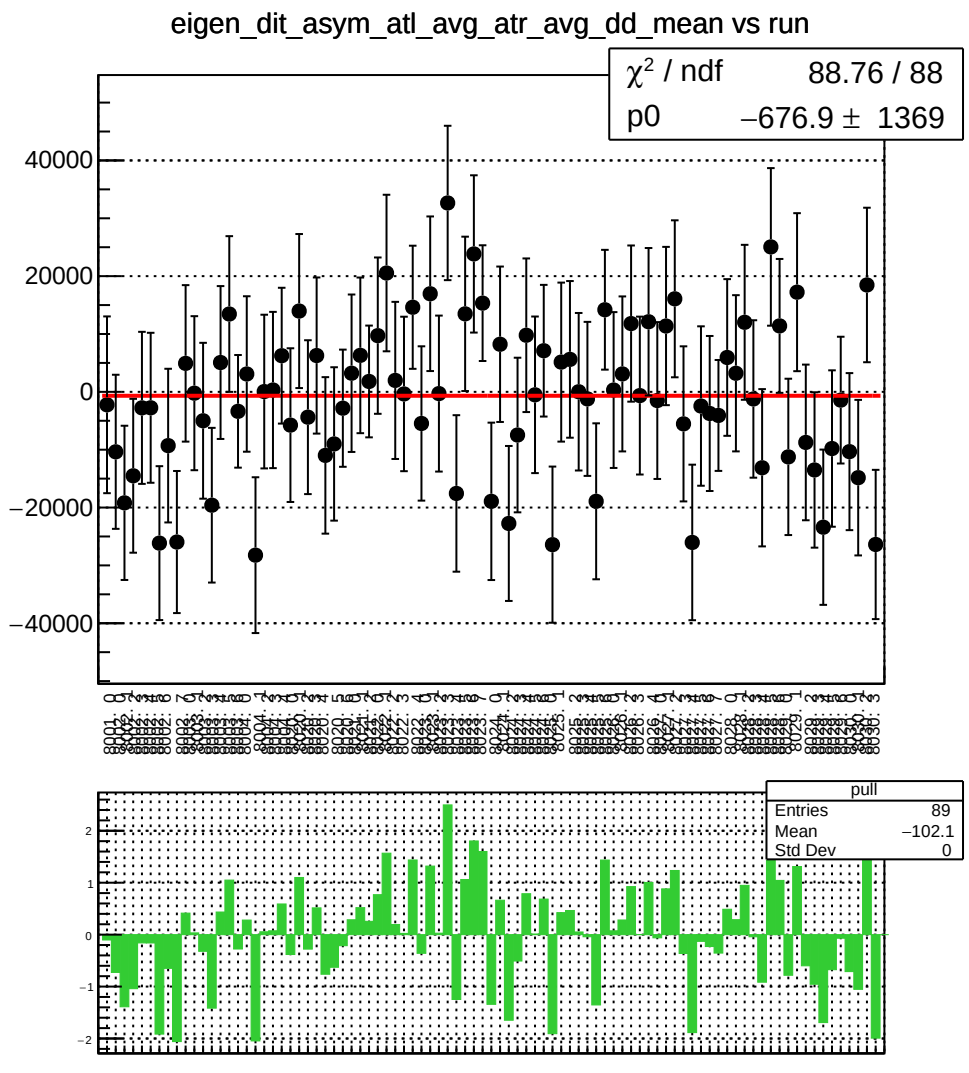

pull1D
Entries 89
Mean −0.01343
Std Dev 0.9985
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

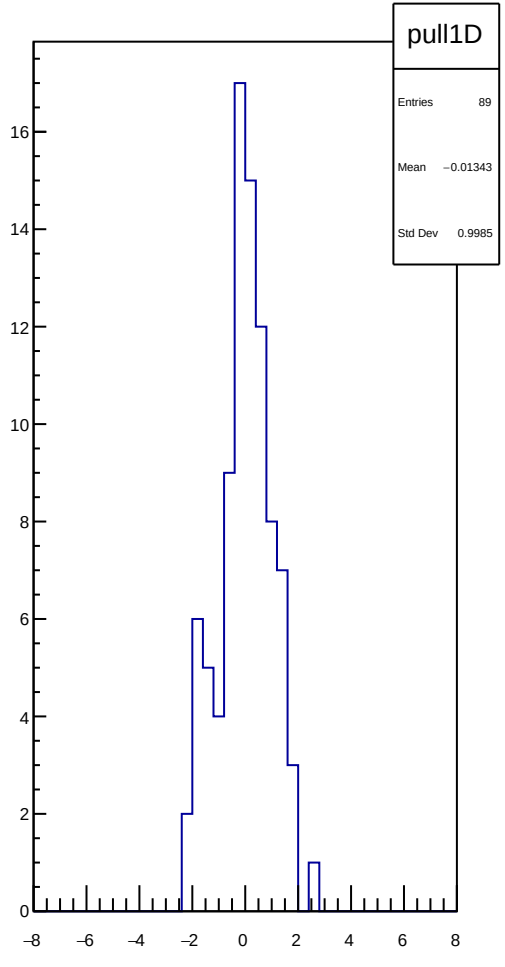

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 168.9 / 88
p0 1275 ± 0.9683
1320
1300
1280
1260
1240
1220

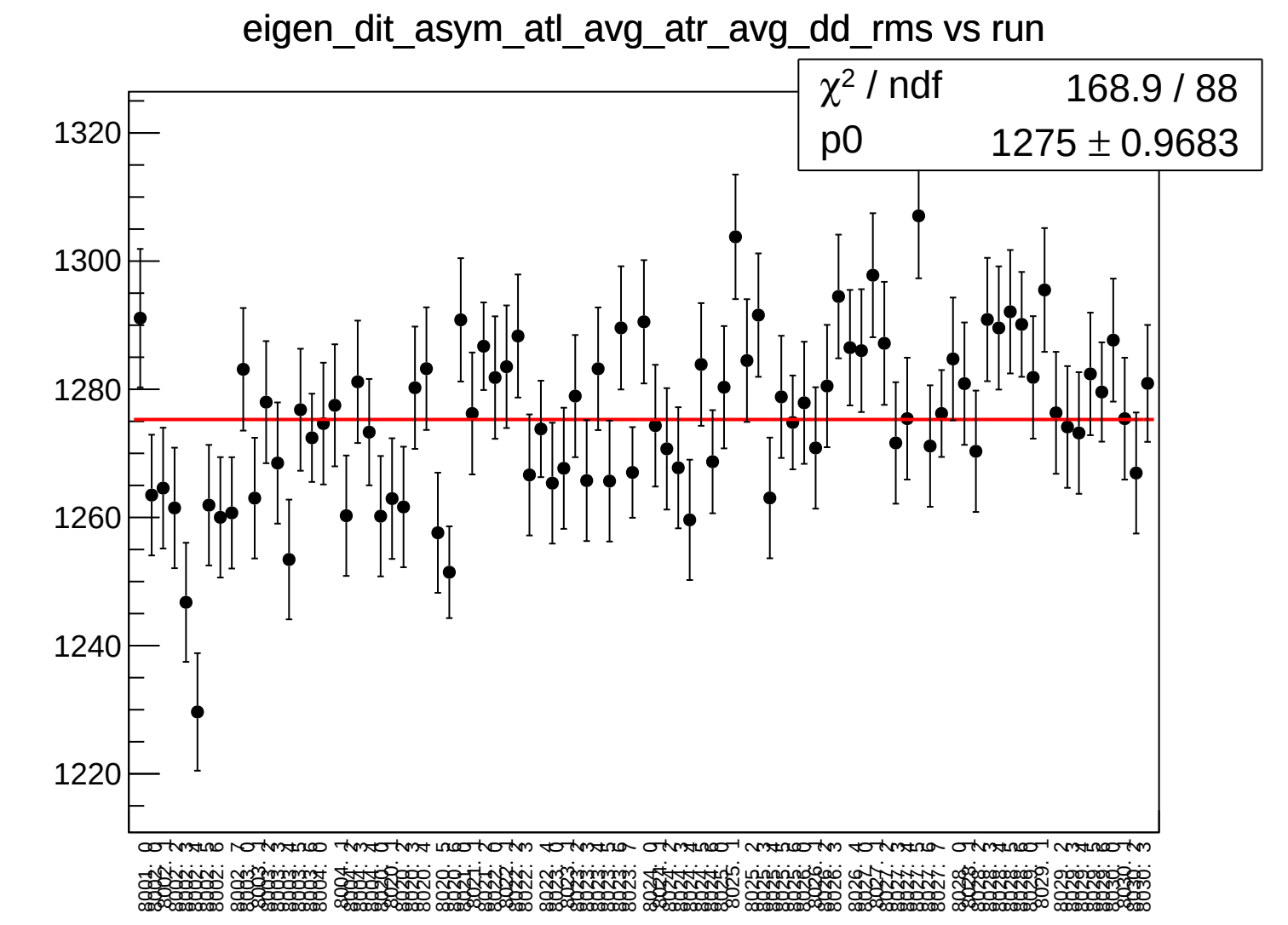

asym_atl_avg_atr_avg_dd_dit_correction_mean vs run
χ² / ndf 97.49 / 88
p0 −18.47 ± 1516
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 161.4
Std Dev 0
2
1
0
−1
−2

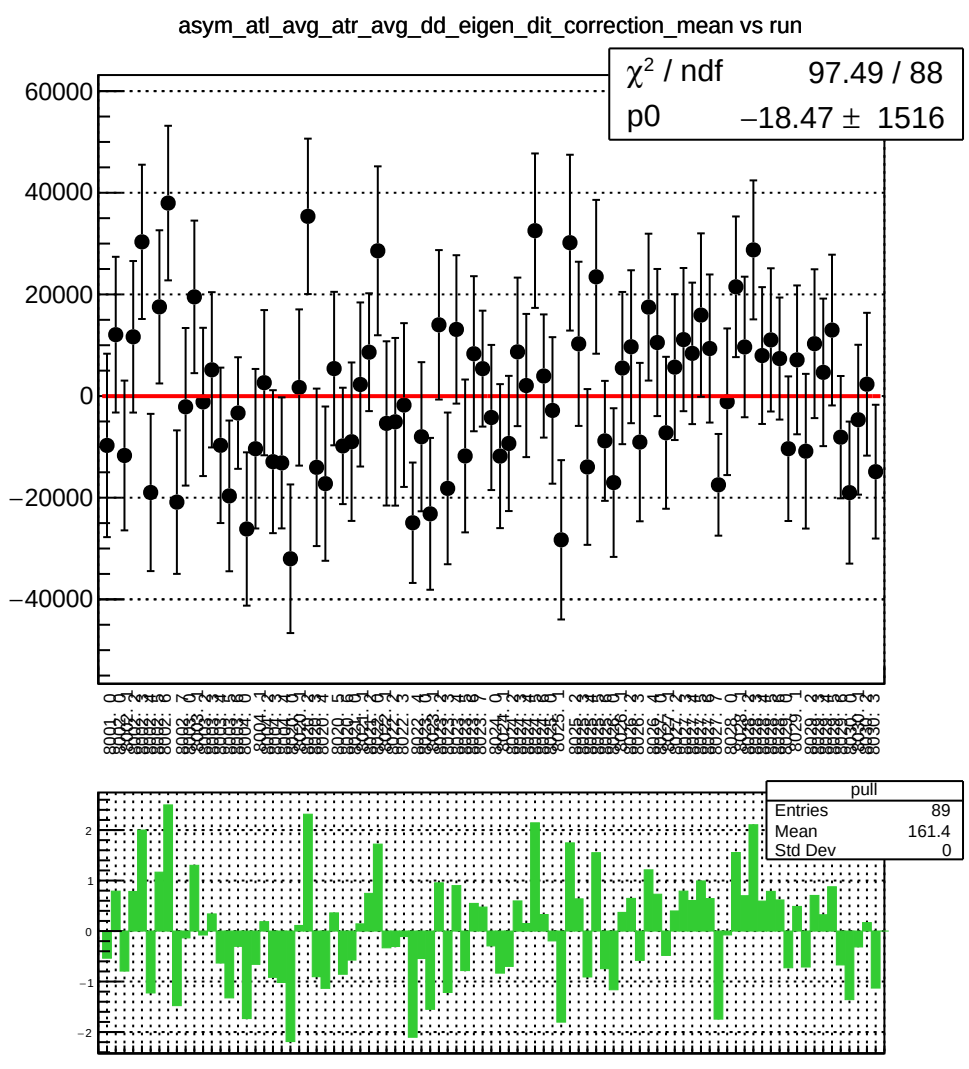

pull1D
Entries 89
Mean 0.02148
Std Dev 1.046
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

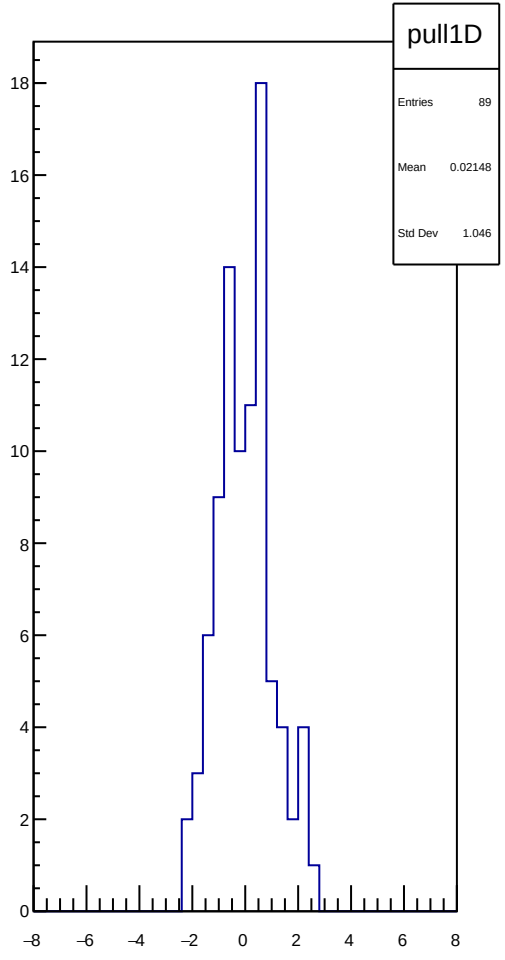

asym_atl_avg_atr_avg_dd_dit_correction_rms vs run
χ² / ndf 4024 / 88
p0 1410 ± 1.072
1650
1600
1550
1500
1450
1400
1350
1300
1250

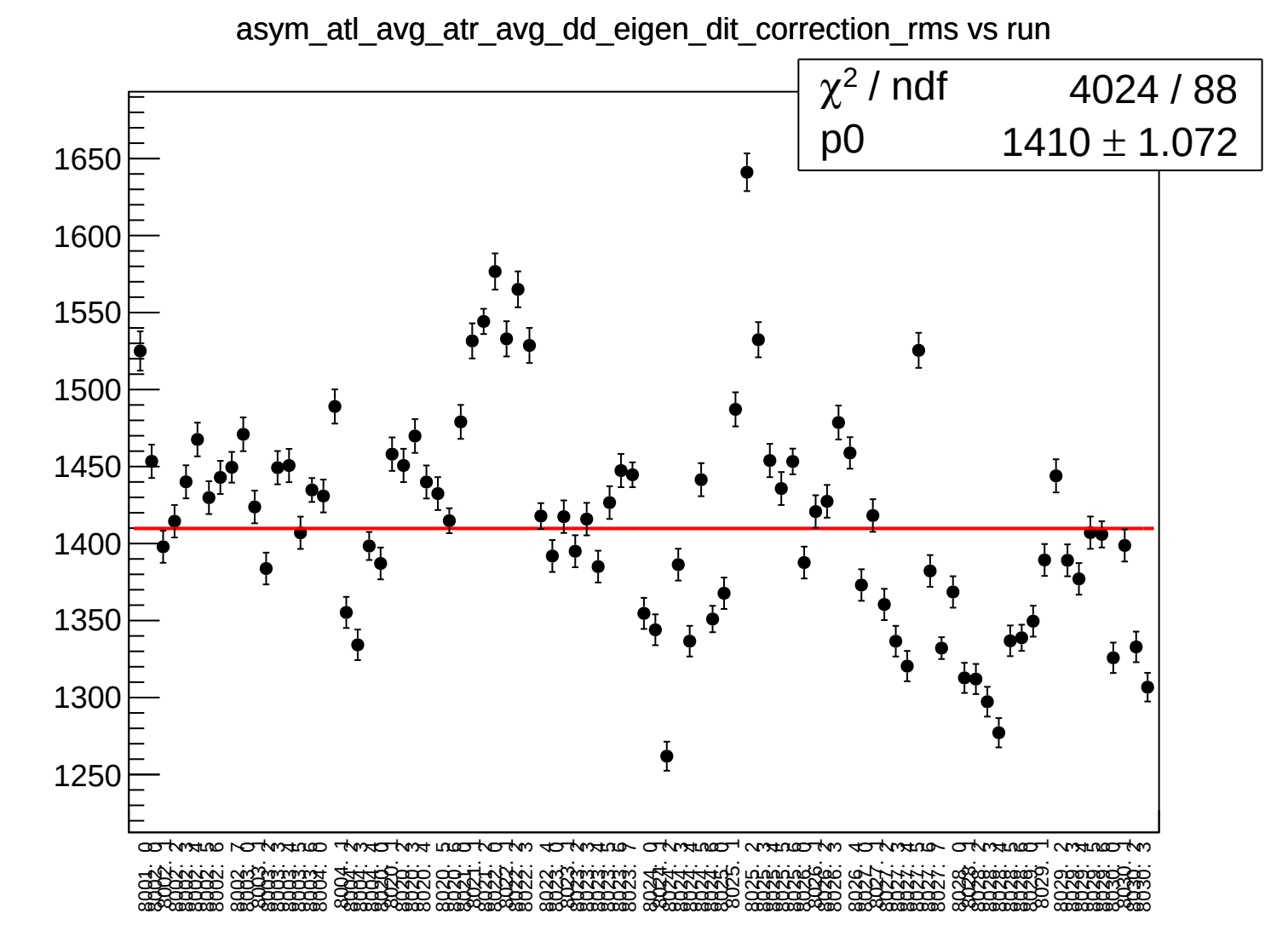

eigen_dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 88.76 / 88
p0 −676.9 ± 1369
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −102.1
Std Dev 0
2
1
0
−1
−2

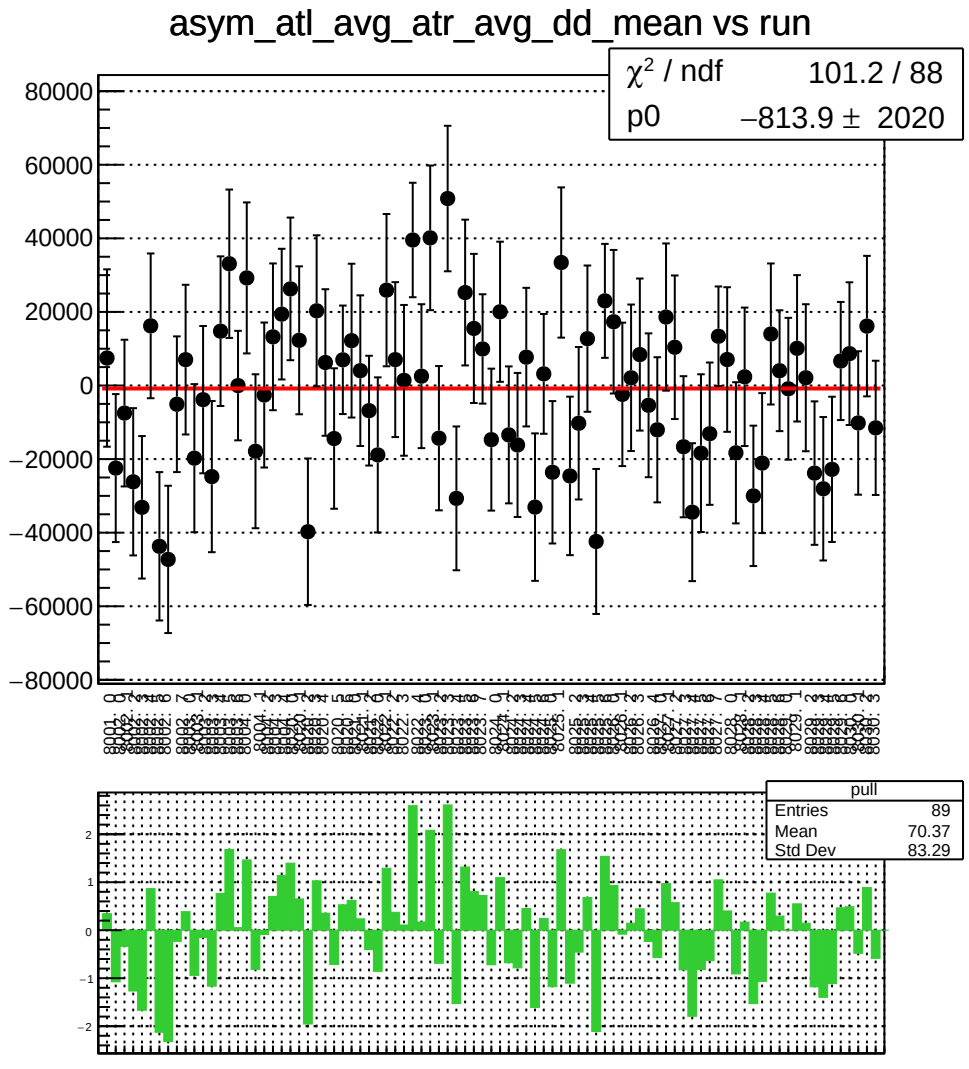

pull1D
Entries 89
Mean −0.01343
Std Dev 0.9985
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

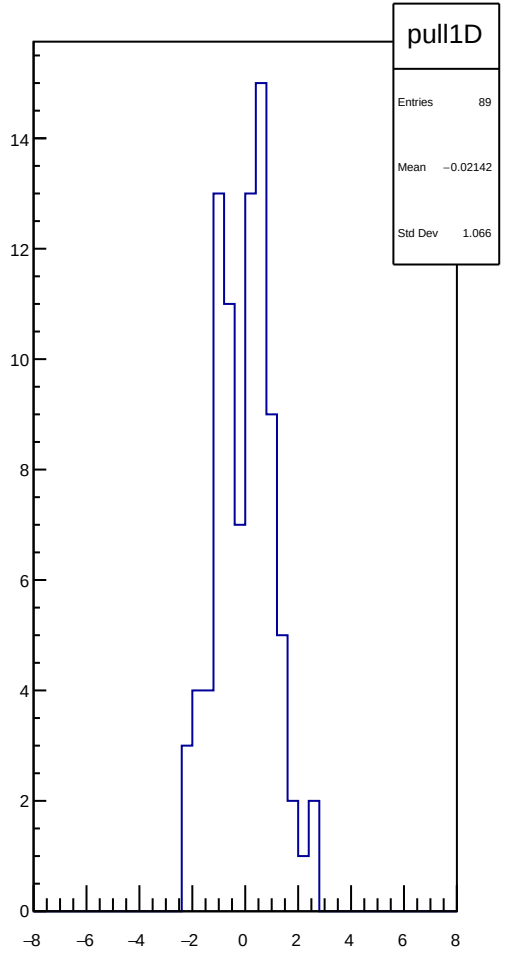

eigen_dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 168.9 / 88
p0 1275 ± 0.9683
1320
1300
1280
1260
1240
1220

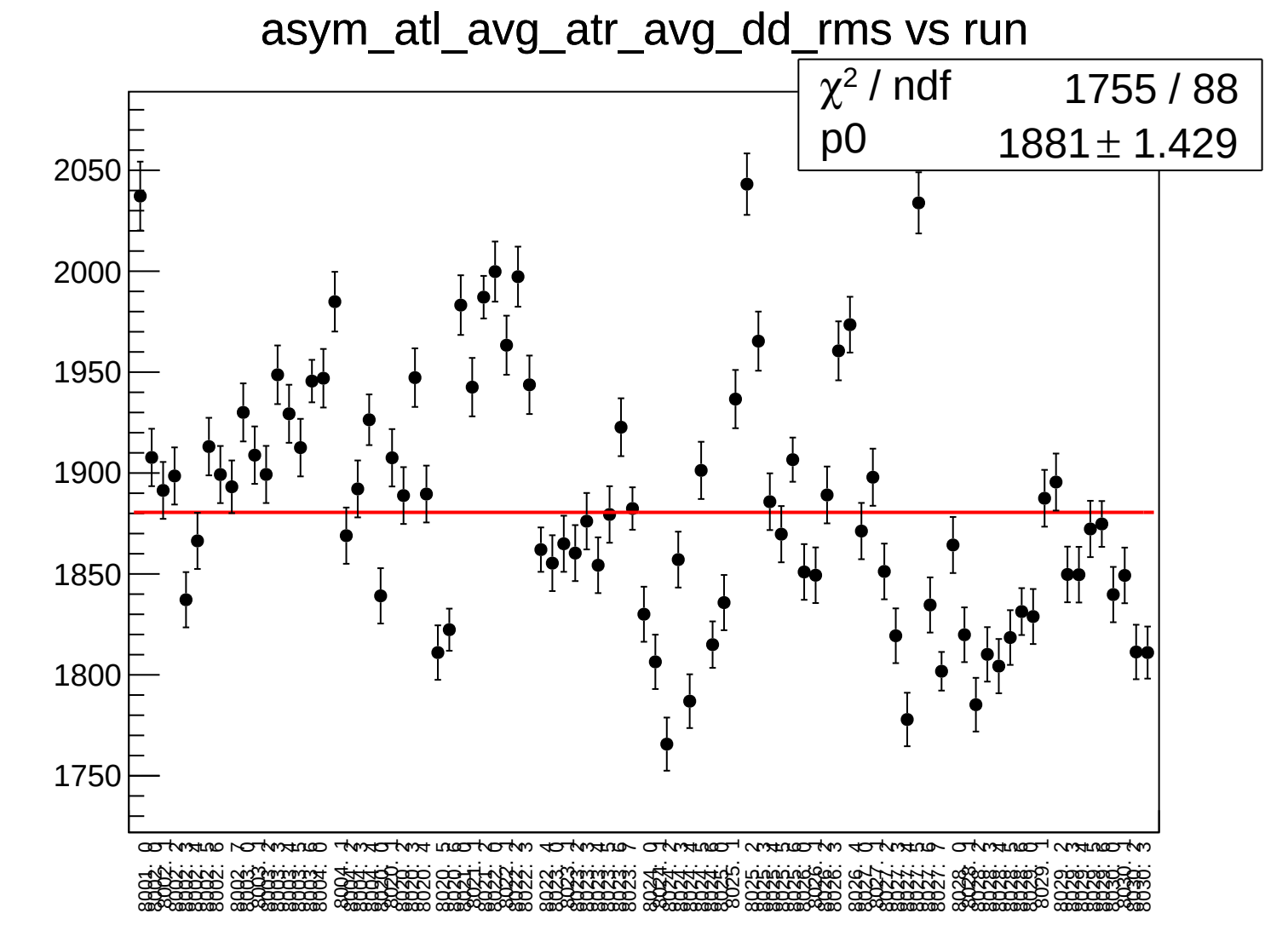

asym_atl_avg_atr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 97.49 / 88
p0 −18.47 ± 1516
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 161.4
Std Dev 0
2
1
0
−1
−2

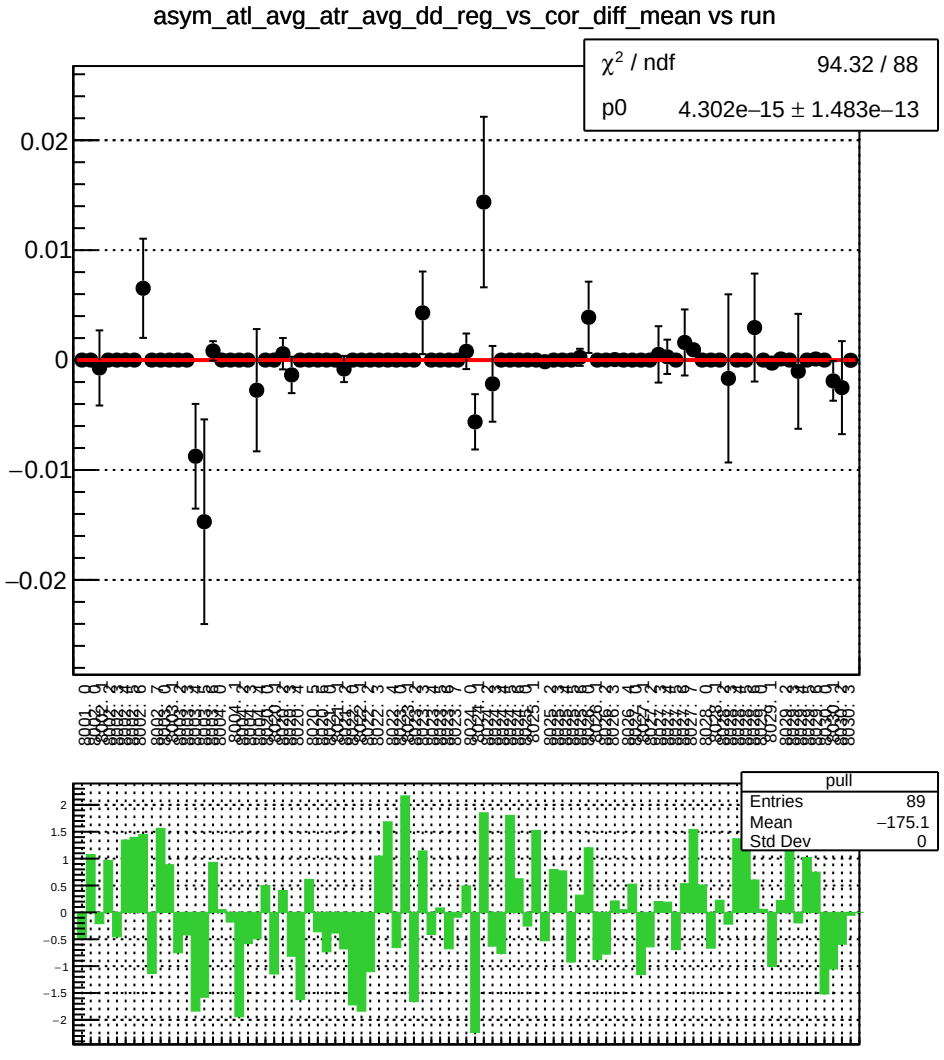

pull1D
Entries 89
Mean 0.02148
Std Dev 1.046
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

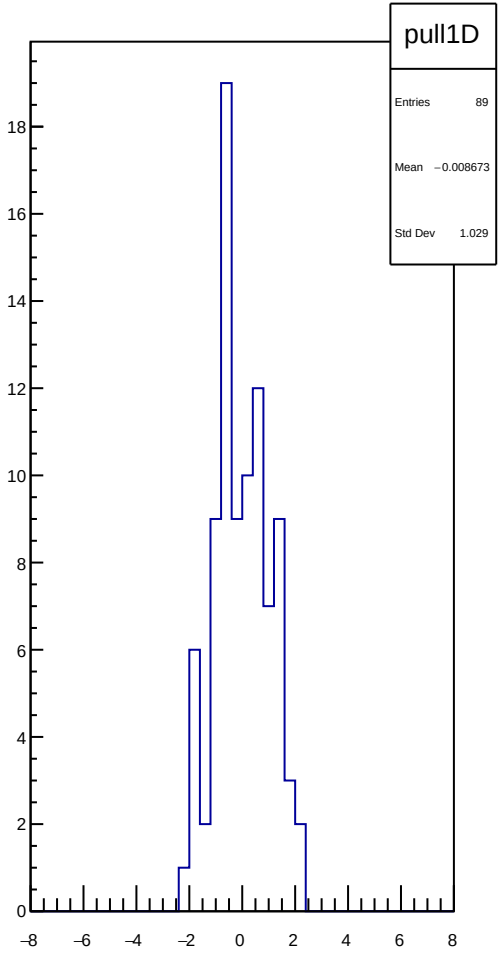

asym_atl_avg_atr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 4024 / 88
p0 1410 ± 1.072
1650
1600
1550
1500
1450
1400
1350
1300
1250

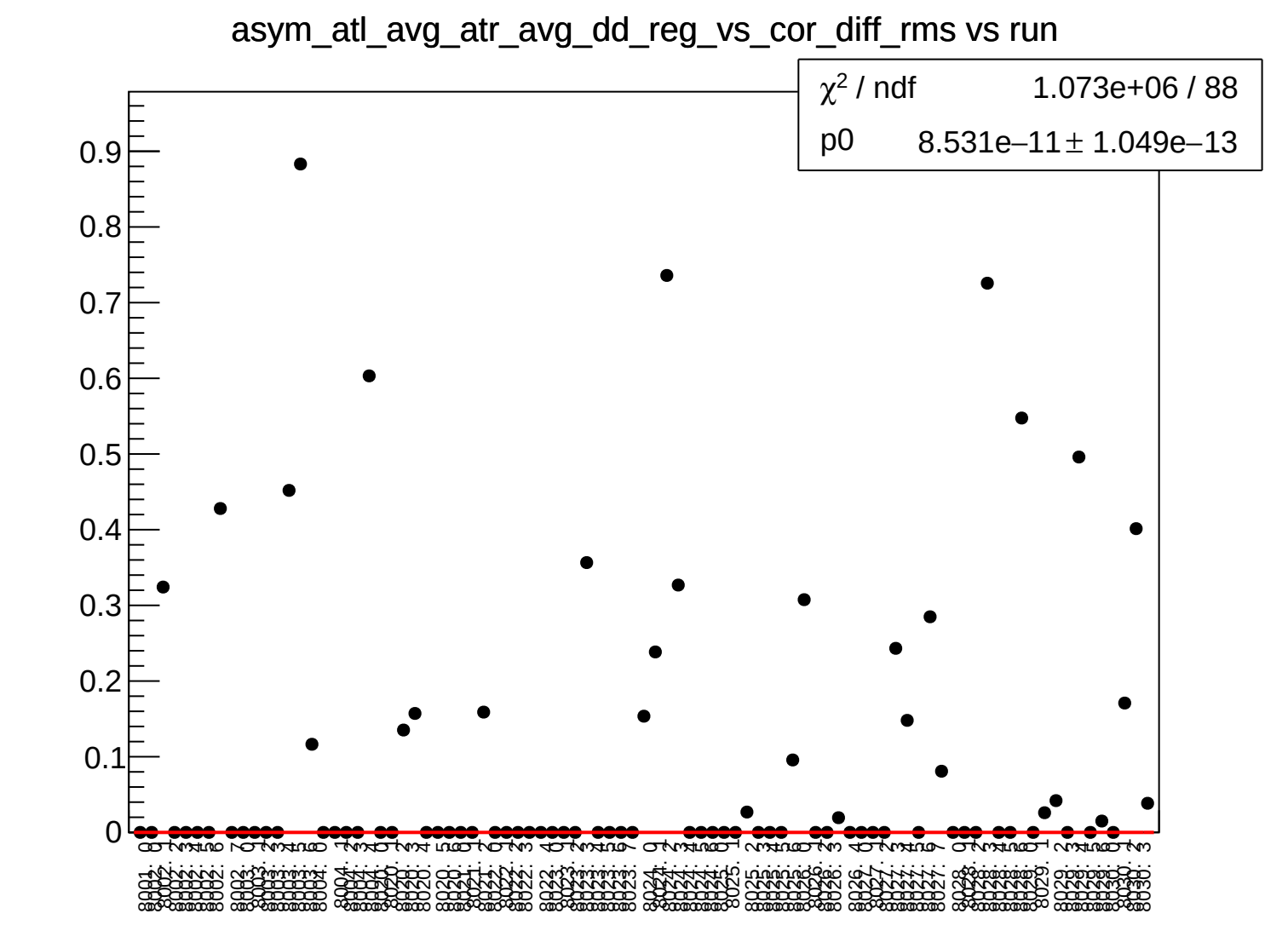

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 101.2 / 88
p0 −813.9 ± 2020
pull
Entries 89
Mean 70.37
Std Dev 83.29

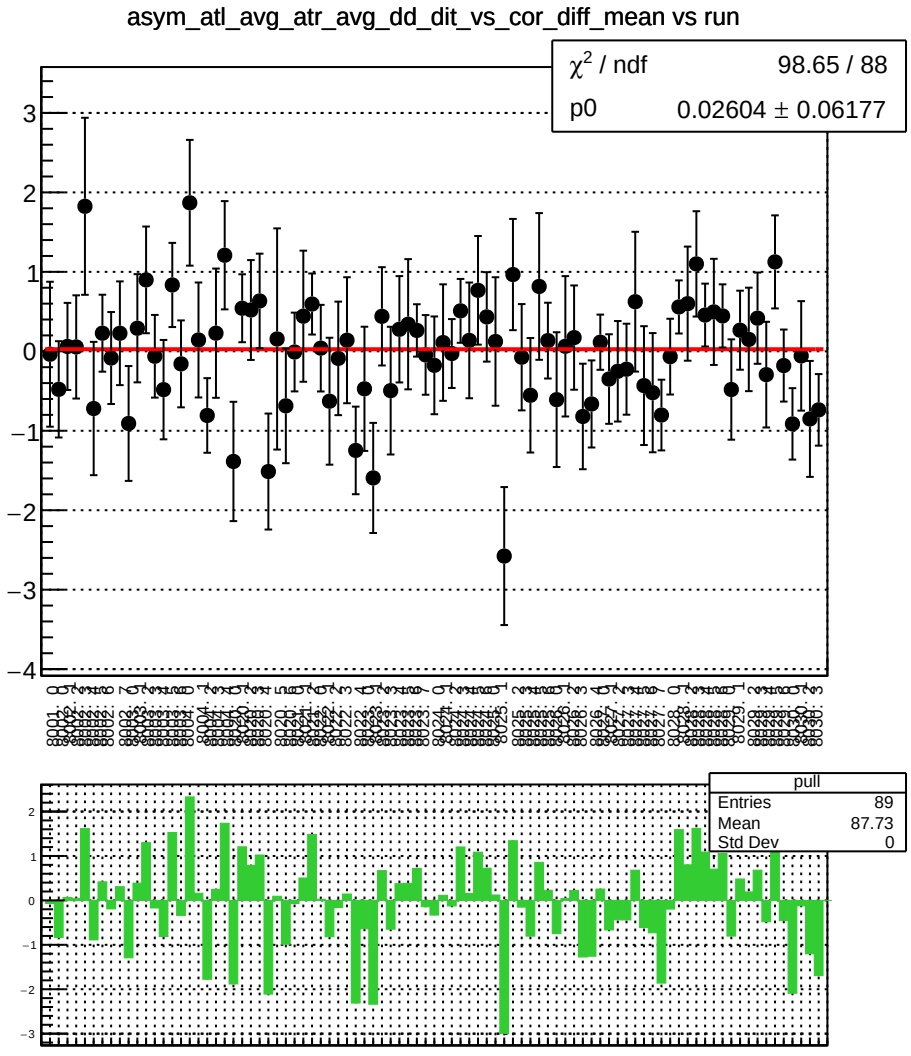

pull1D
Entries 89
Mean −0.02142
Std Dev 1.066

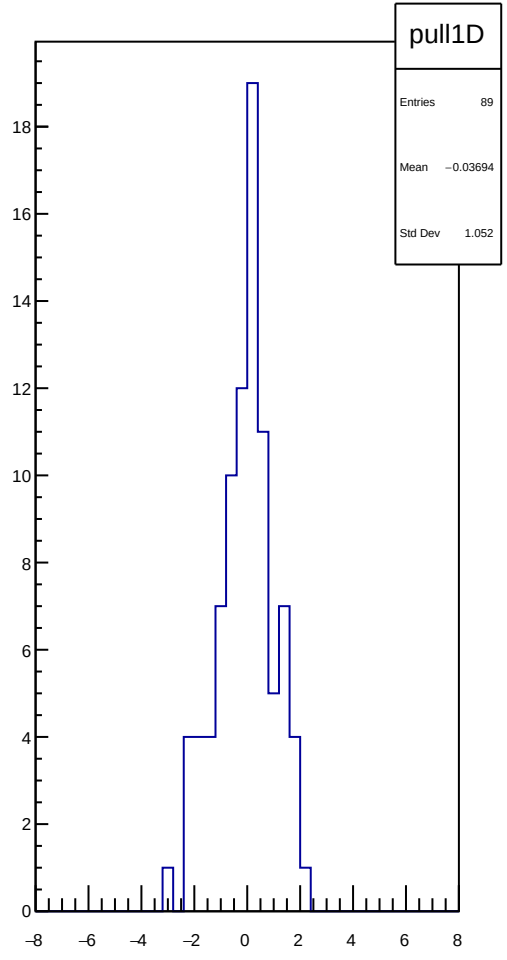

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1755 / 88
p0 1881 ± 1.429
2050
2000
1950
1900
1850
1800
1750

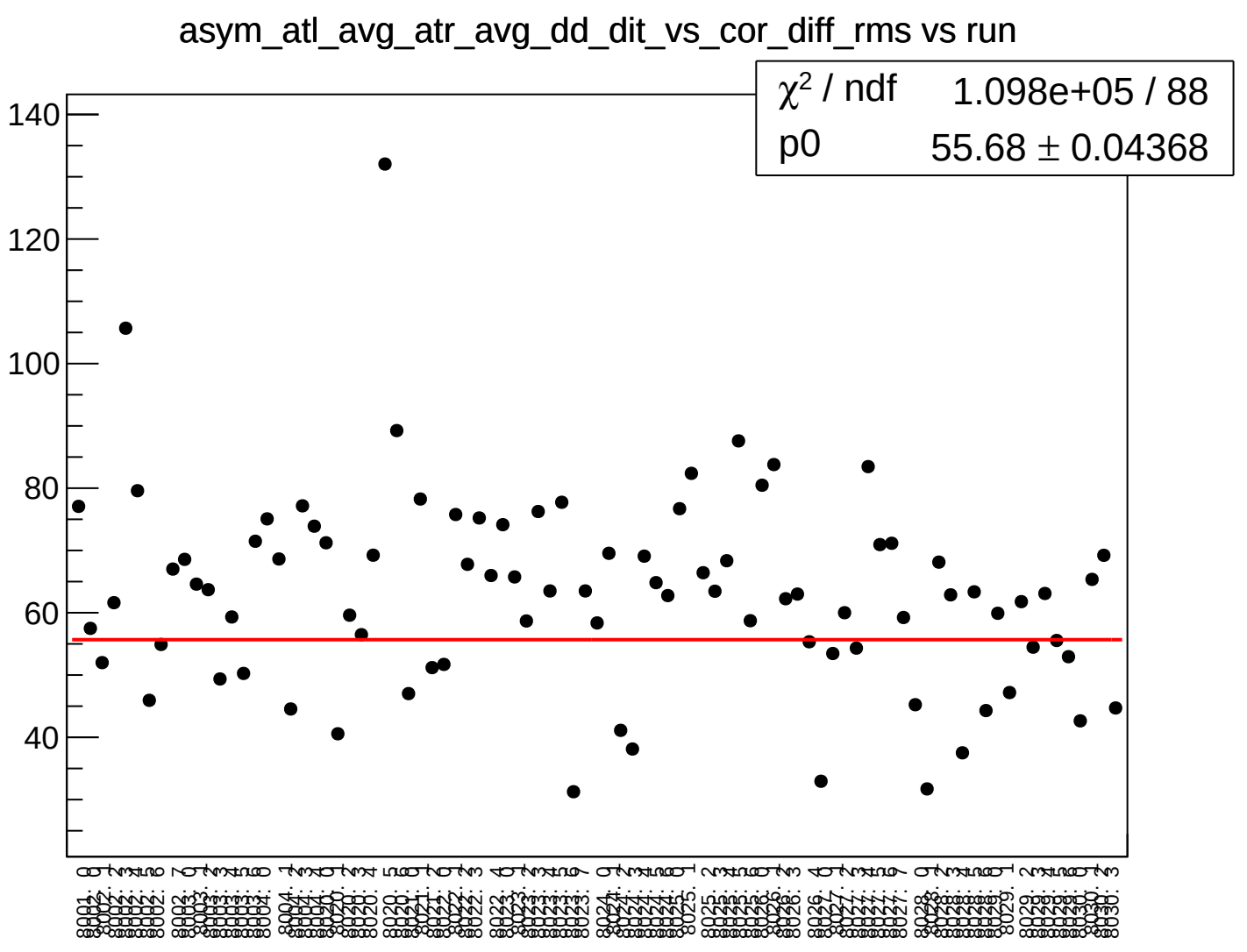

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 94.32 / 88
p0 4.302e−15 ± 1.483e−13
0.02
0.01
0
−0.01
−0.02
pull
Entries 89
Mean −175.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

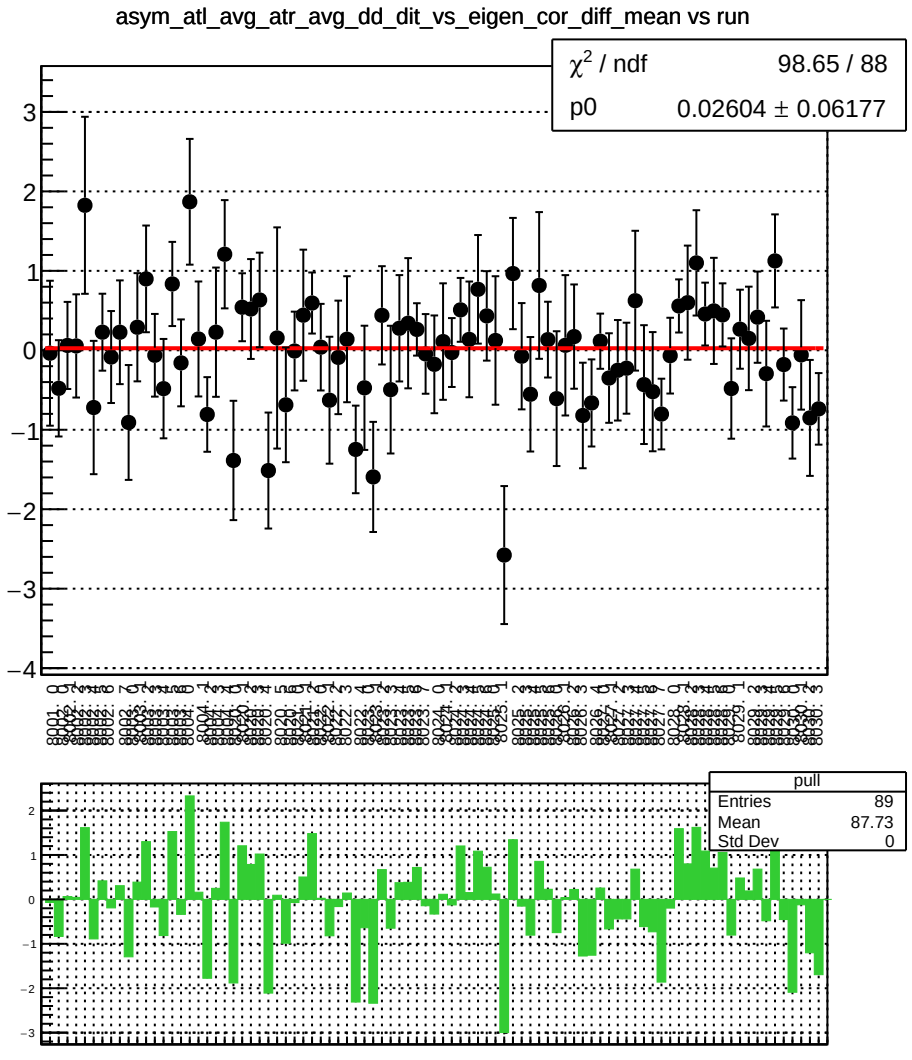

pull1D
Entries 89
Mean −0.008673
Std Dev 1.029
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

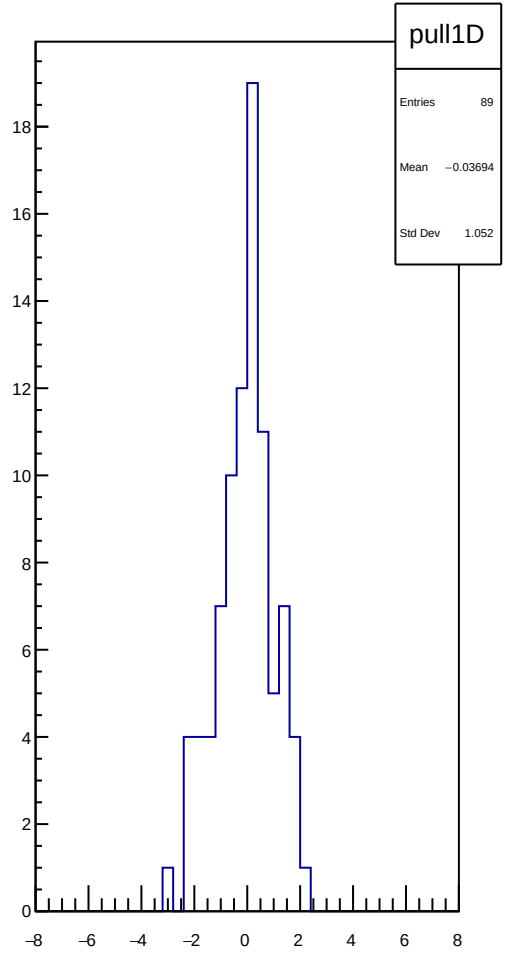

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.073e+06 / 88
p0 8.531e−11 ± 1.049e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

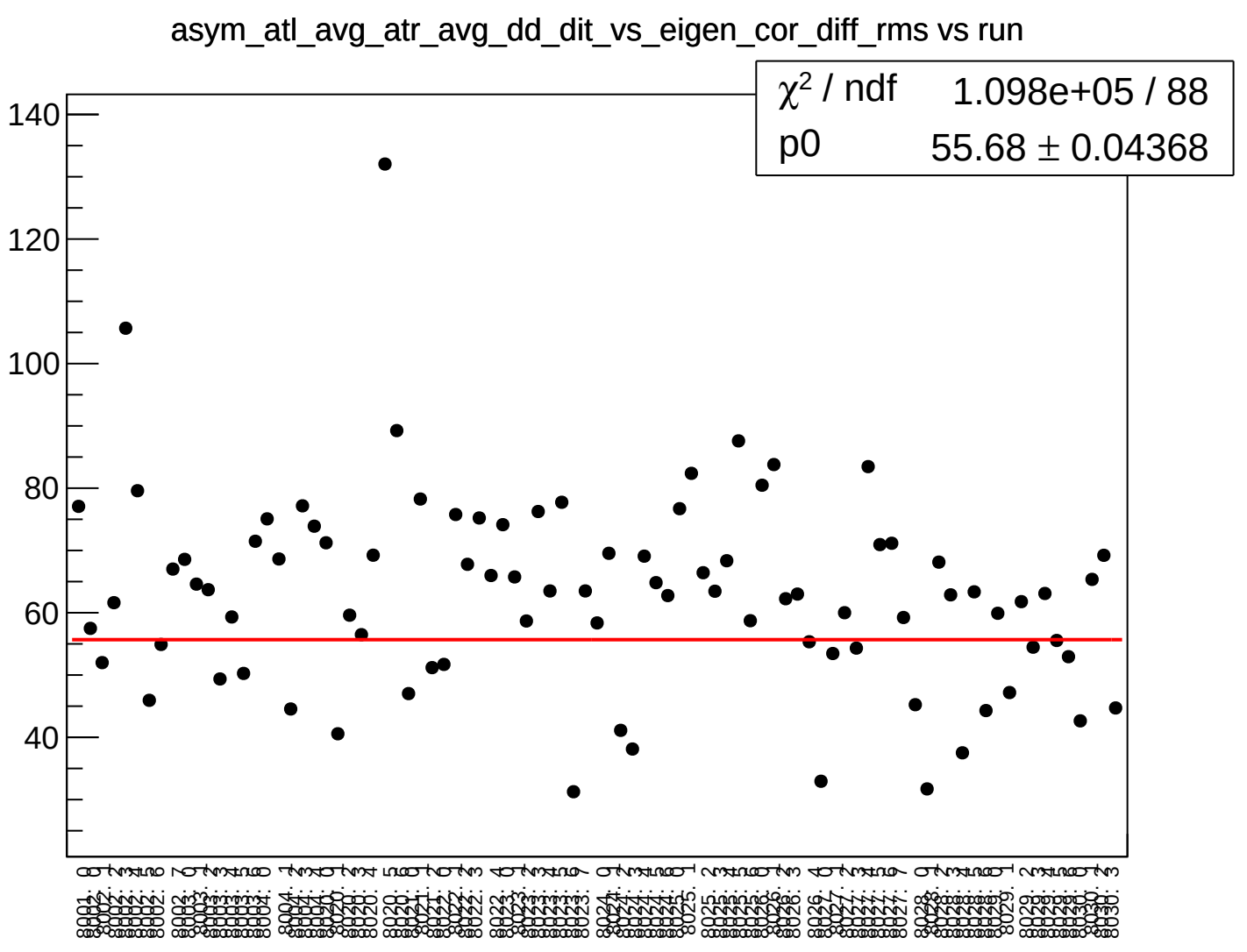

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 98.65 / 88
p0 0.02604 ± 0.06177
pull
Entries 89
Mean 87.73
Std Dev 0

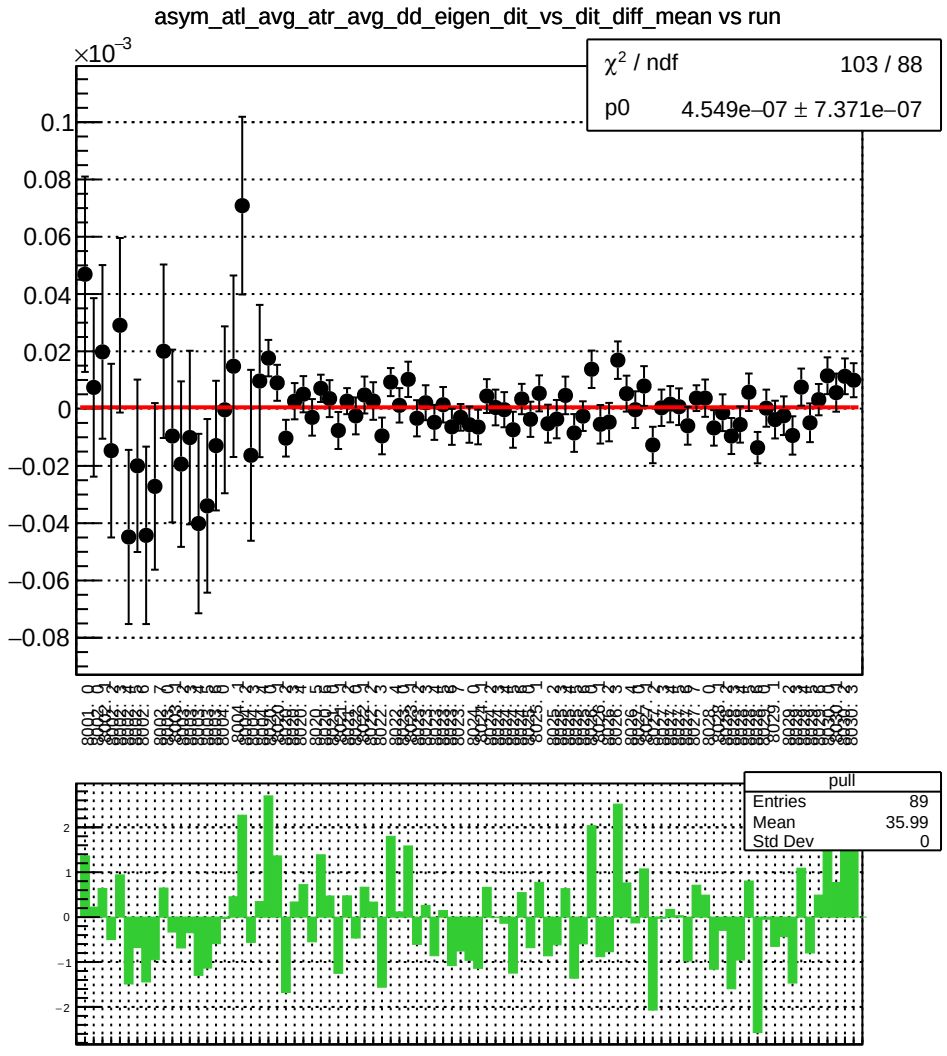

pull1D
Entries 89
Mean −0.03694
Std Dev 1.052

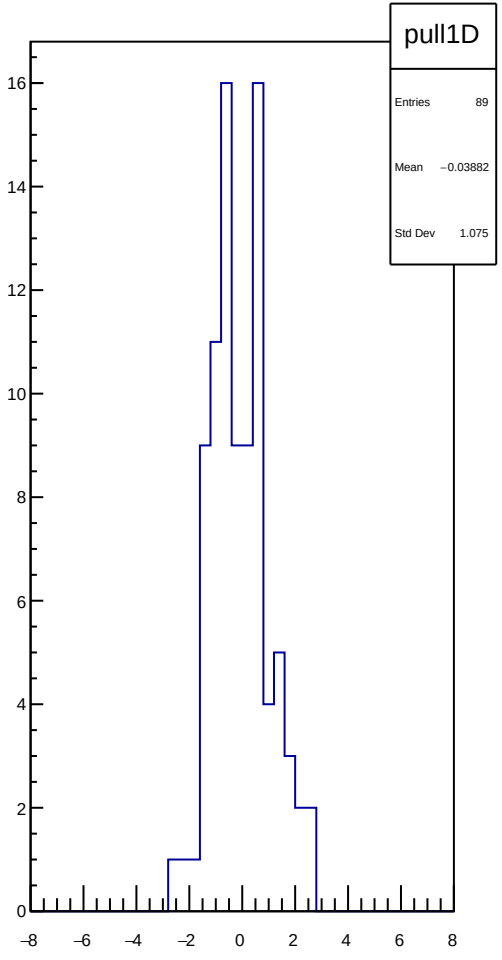

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.098e+05 / 88
p0 55.68 ± 0.04368
140
120
100
80
60
40

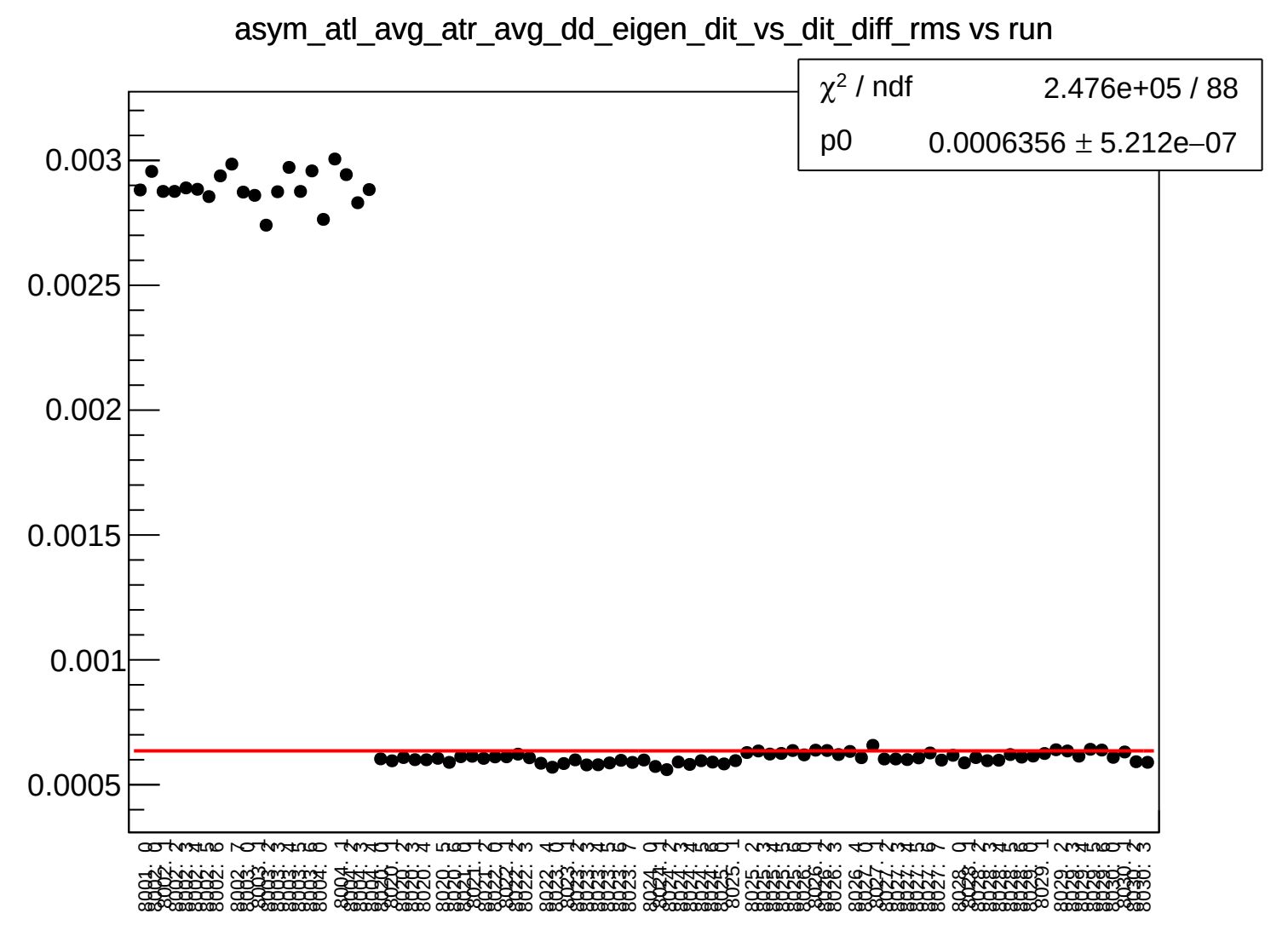

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.65 / 88
p0 0.02604 ± 0.06177
pull
Entries 89
Mean 87.73
Std Dev 0

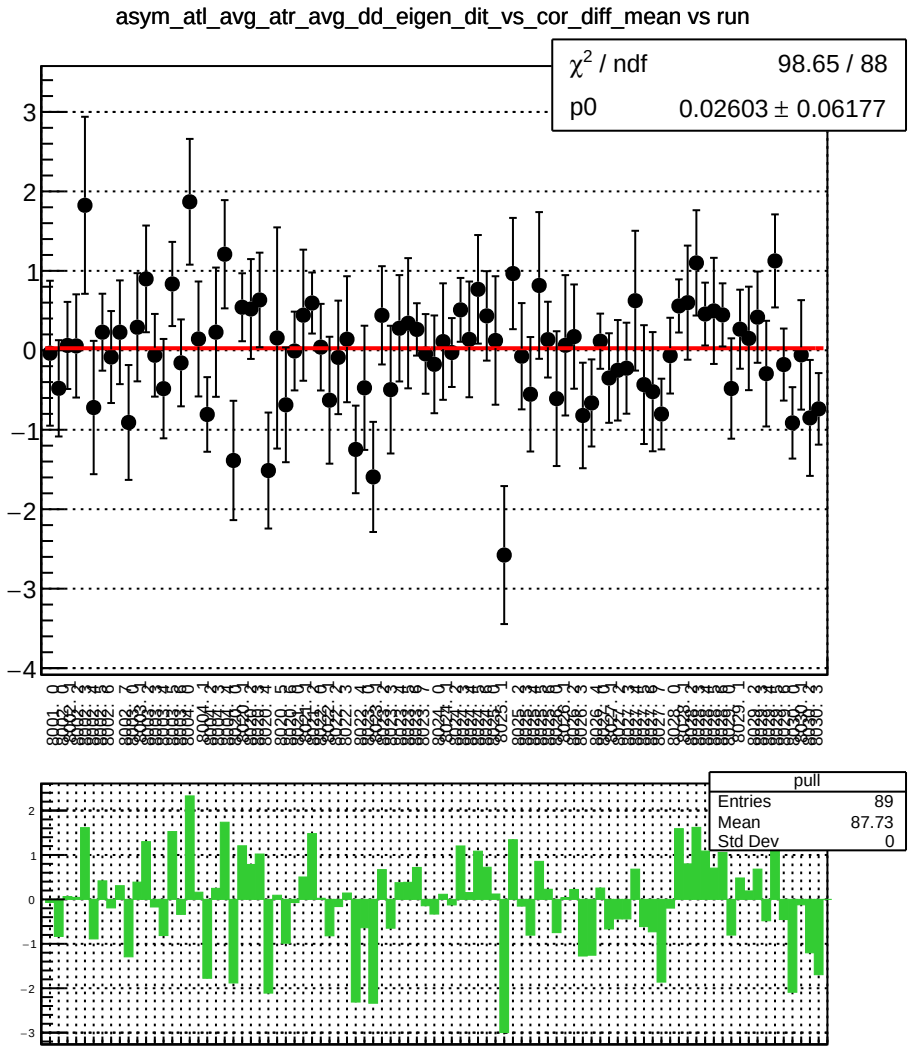

pull1D
Entries 89
Mean −0.03694
Std Dev 1.052

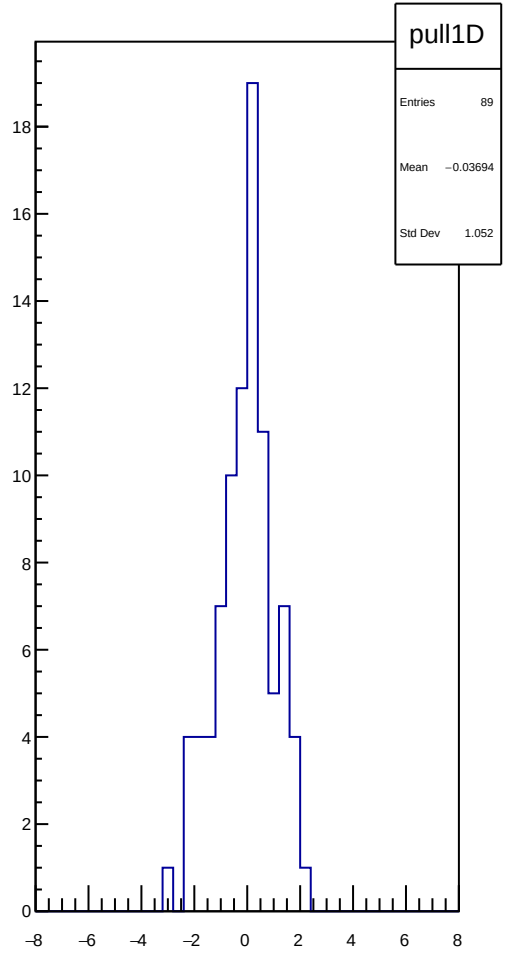

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.098e+05 / 88
p0 55.68 ± 0.04368
140
120
100
80
60
40

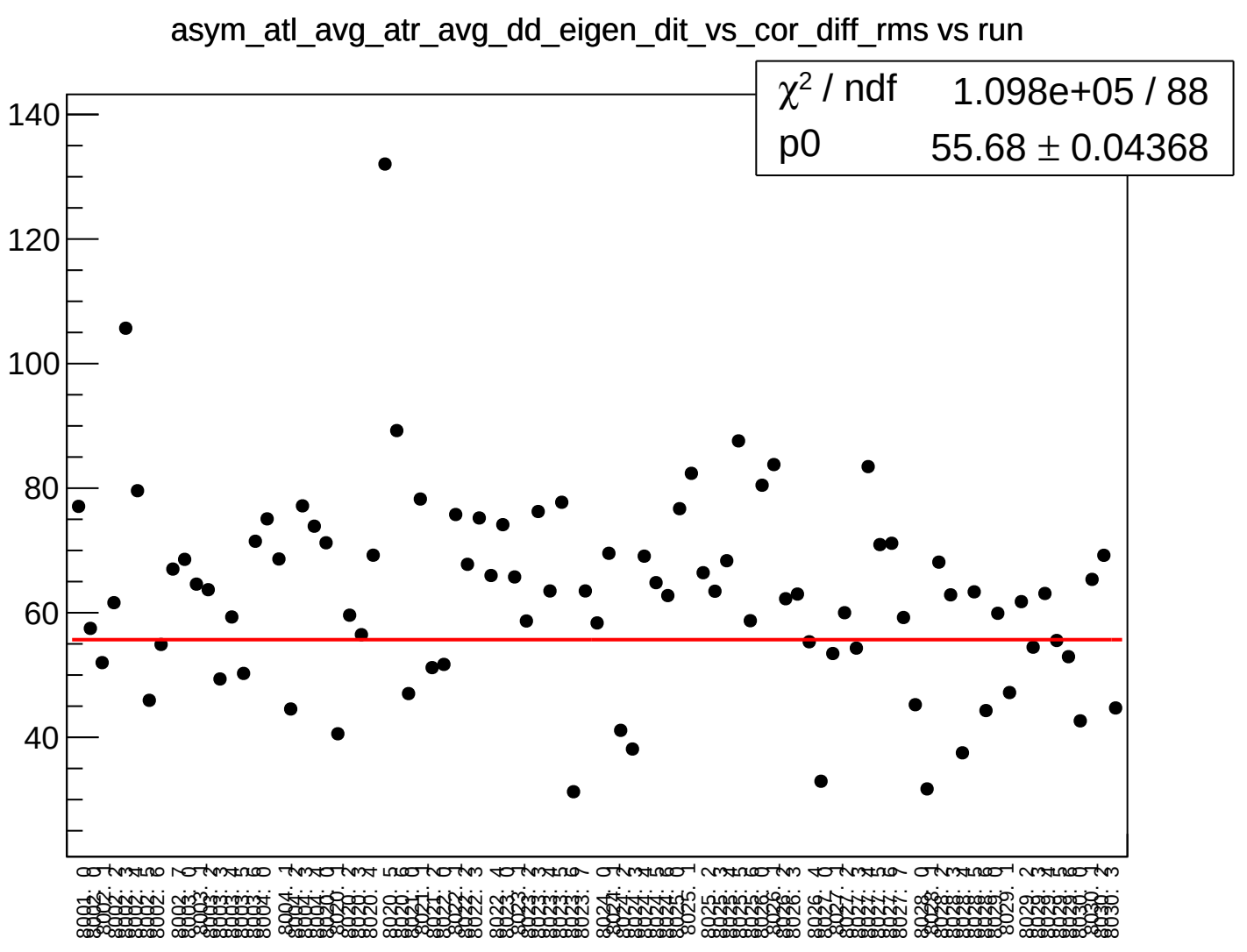

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 103 / 88
p0 4.549e−07 ± 7.371e−07
pull
Entries 89
Mean 35.99
Std Dev 0

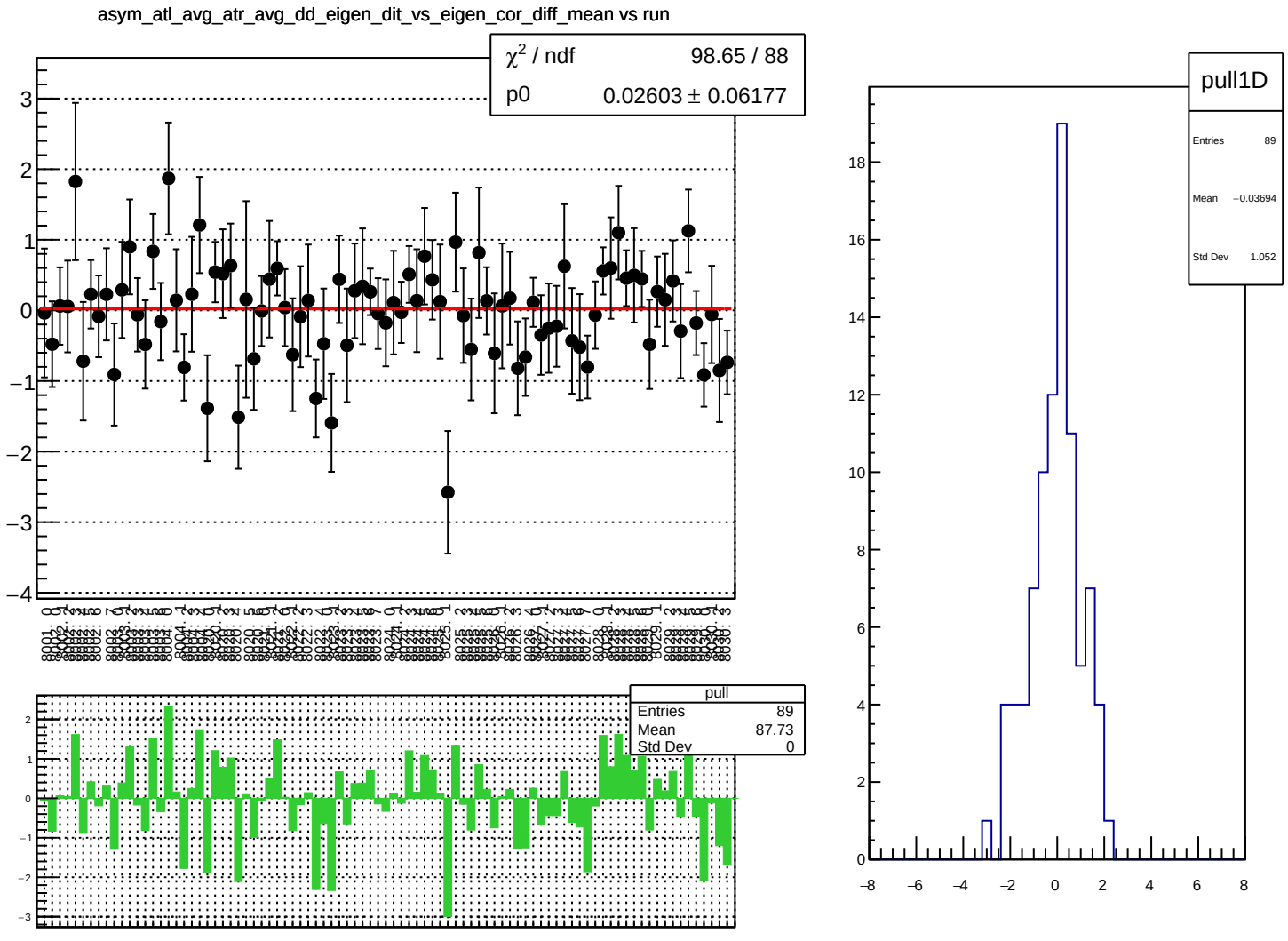

pull1D
Entries 89
Mean −0.03882
Std Dev 1.075

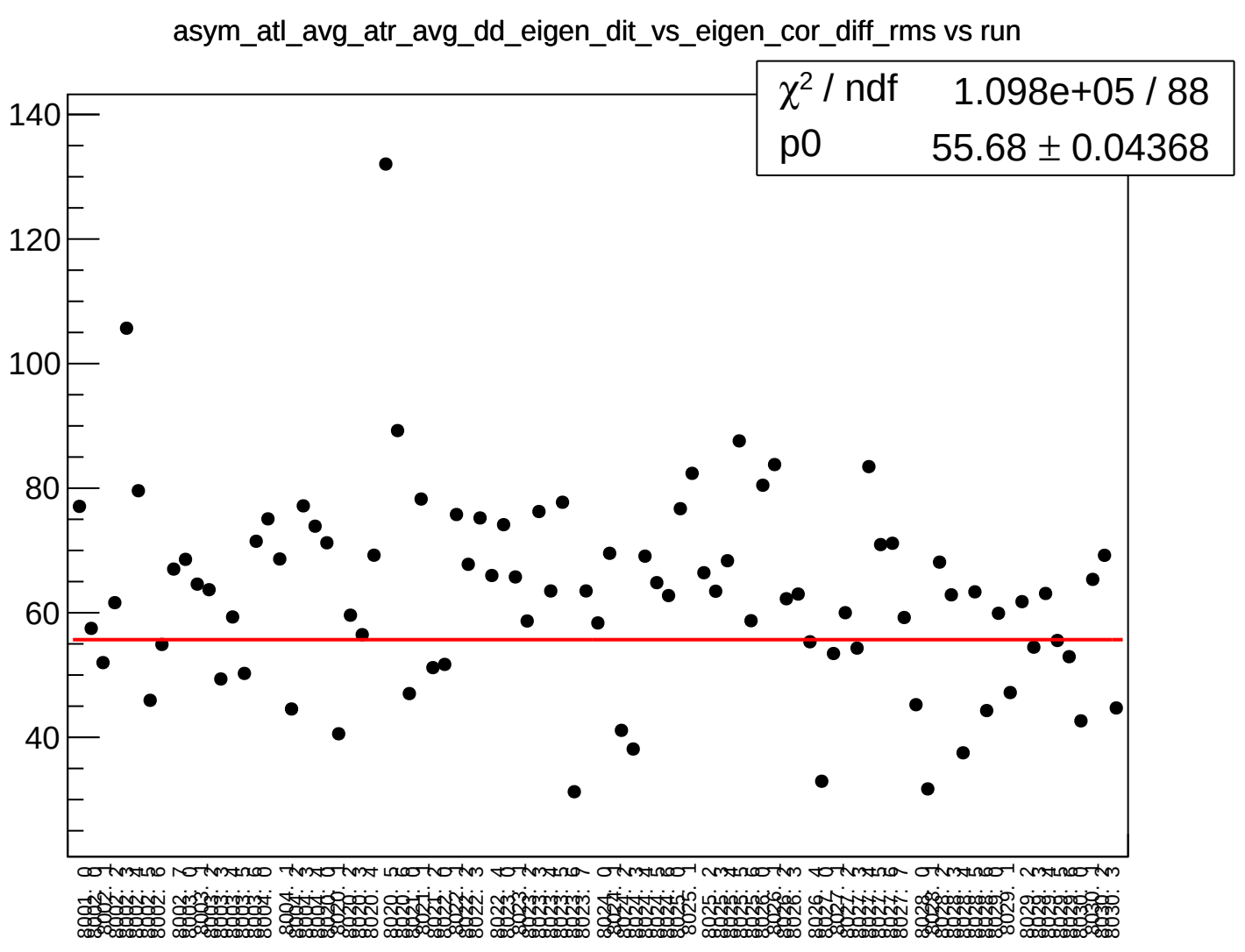

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.476e+05 / 88
p0 0.0006356 ± 5.212e−07
0.003
0.0025
0.002
0.0015
0.001
0.0005

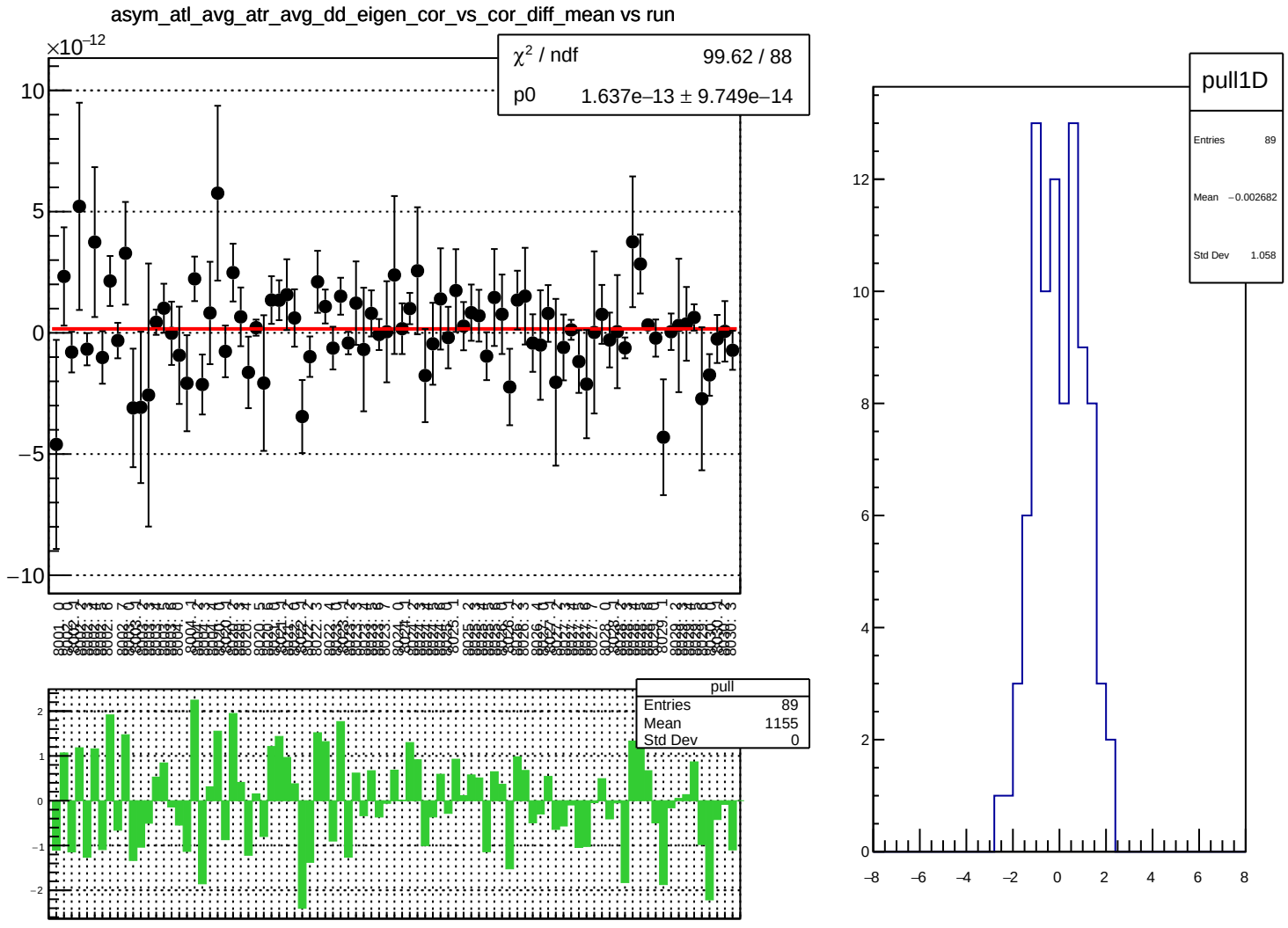

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 98.65 / 88
p0 0.02603 ± 0.06177
pull
Entries 89
Mean 87.73
Std Dev 0

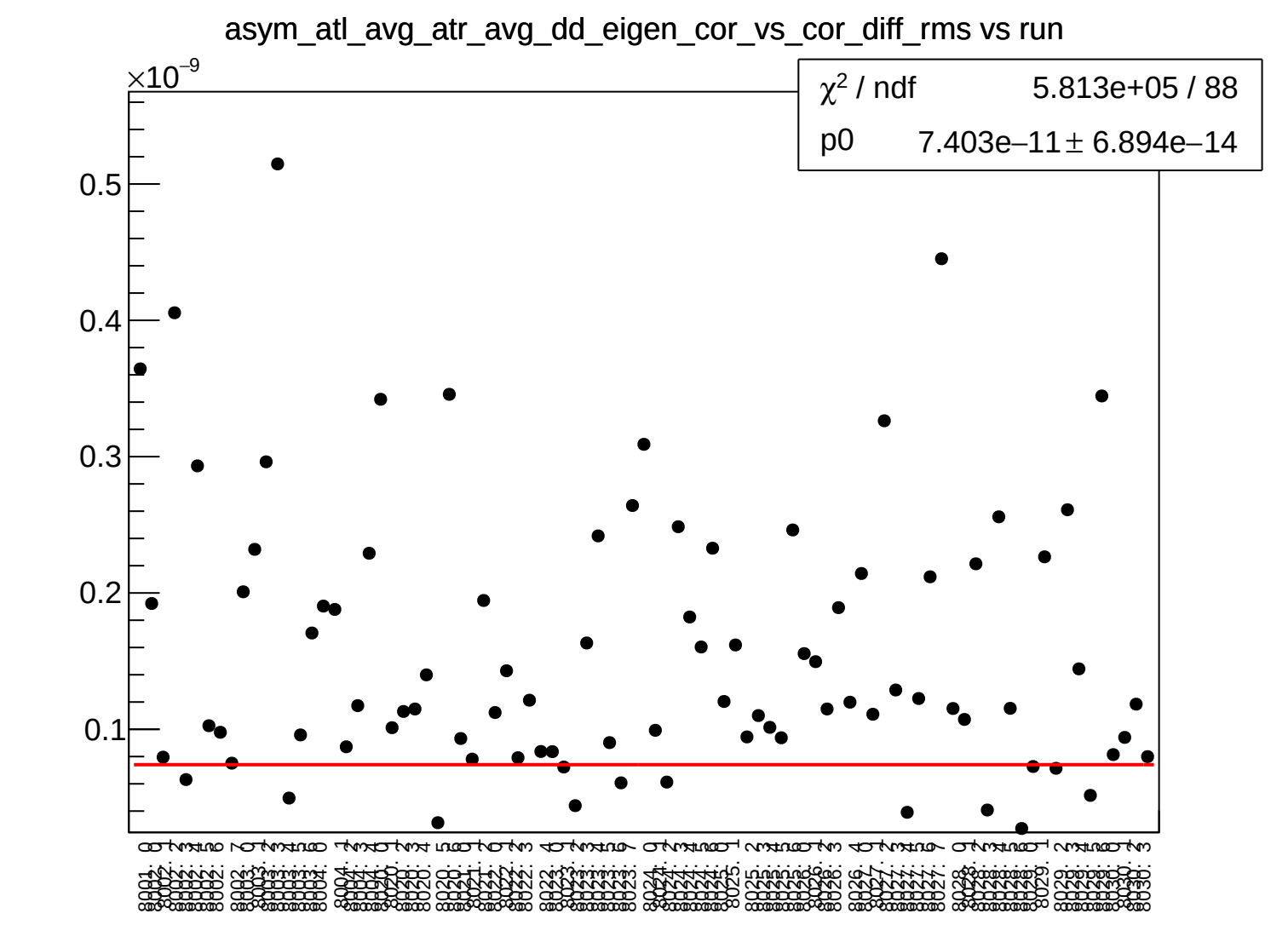

pull1D
Entries 89
Mean −0.03694
Std Dev 1.052

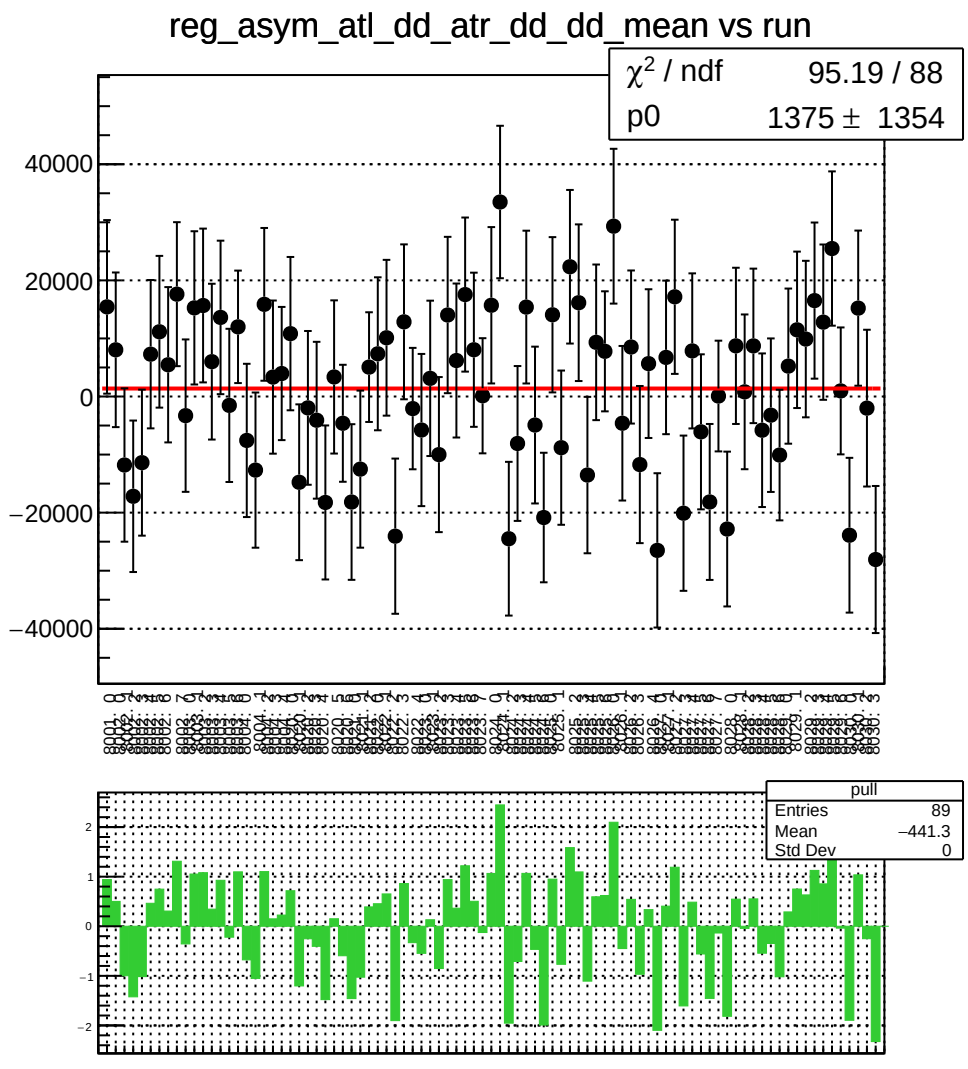

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.098e+05 / 88
p0 55.68 ± 0.04368
140
120
100
80
60
40

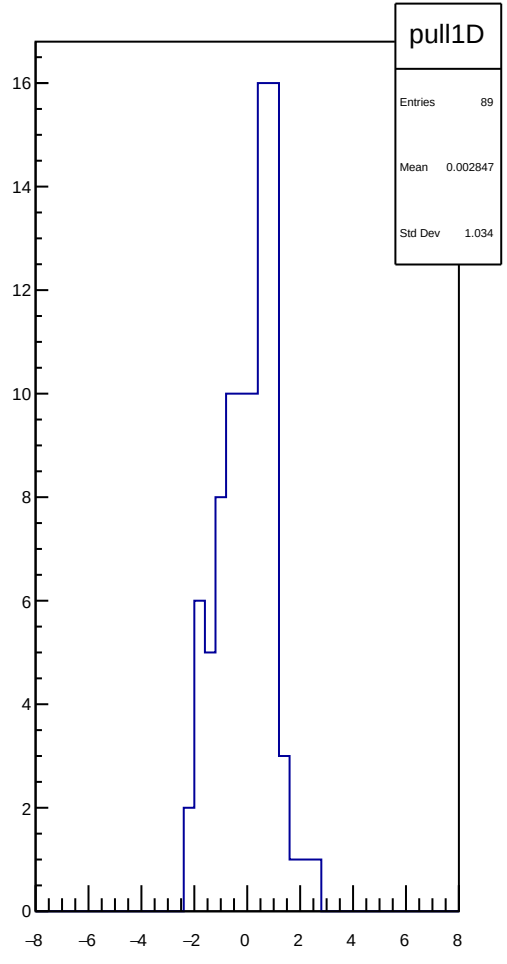

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.65 / 88
p0 0.02603 ± 0.06177
pull
Entries 89
Mean 87.73
Std Dev 0
pull1D
Entries 89
Mean −0.03694
Std Dev 1.052

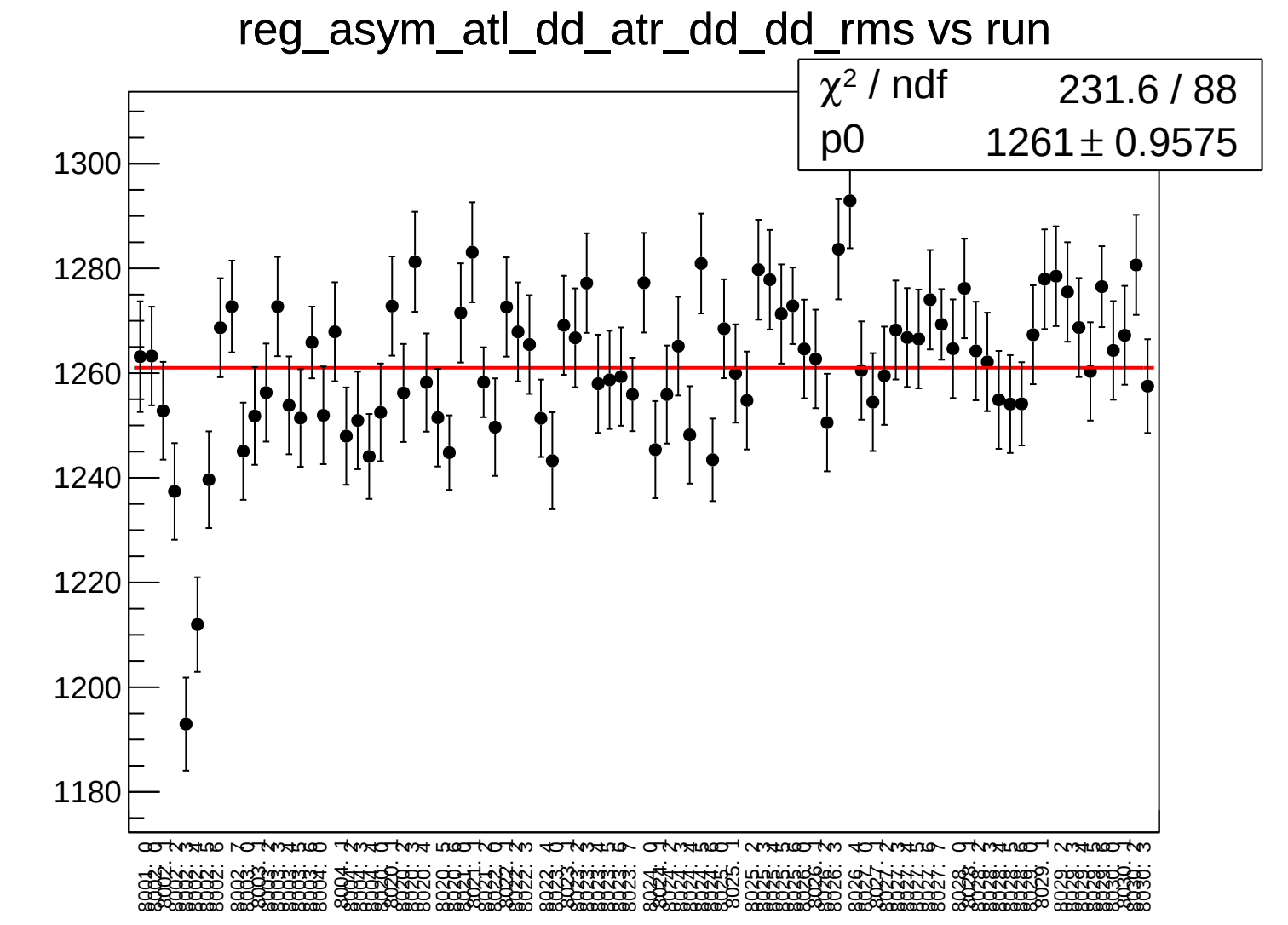

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.098e+05 / 88
p0 55.68 ± 0.04368
140
120
100
80
60
40

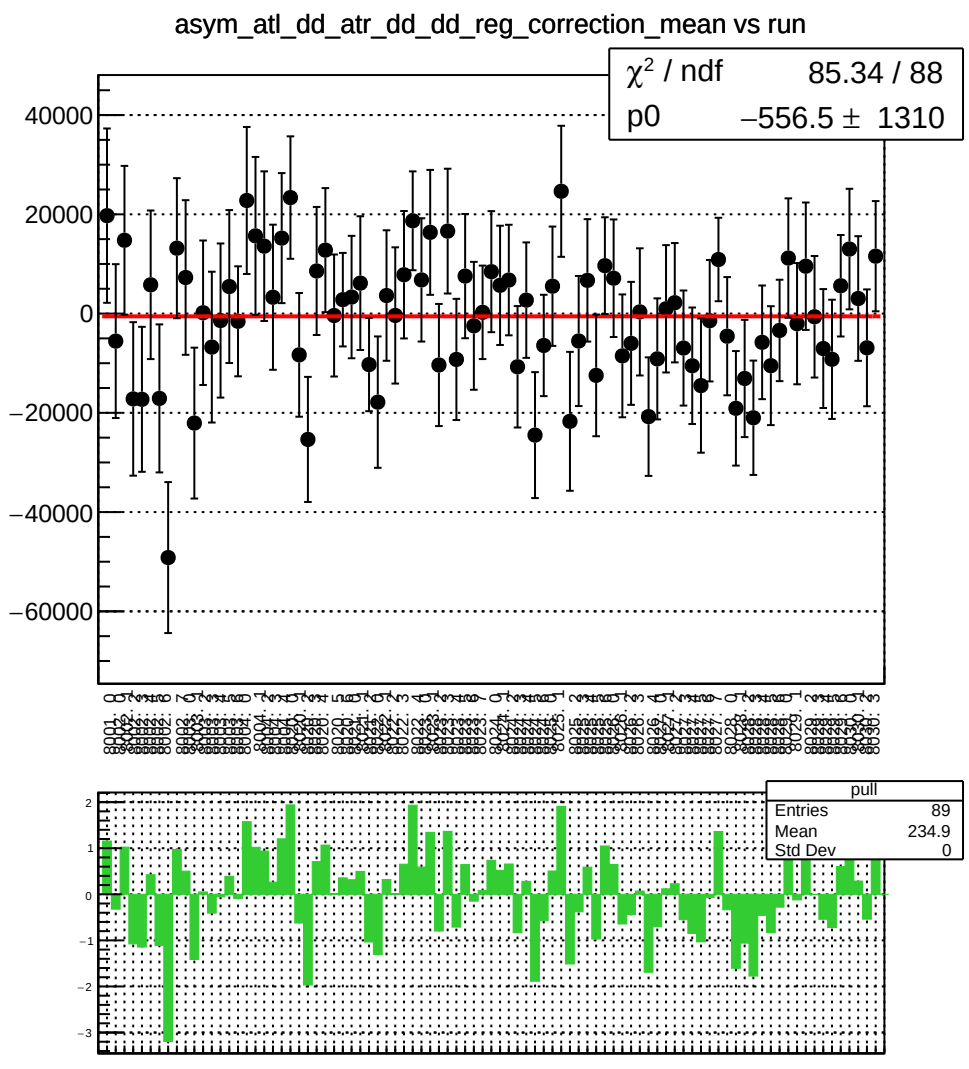

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.62 / 88
p0 1.637e−13 ± 9.749e−14
pull
Entries 89
Mean 1155
Std Dev 0
pull1D
Entries 89
Mean −0.002682
Std Dev 1.058

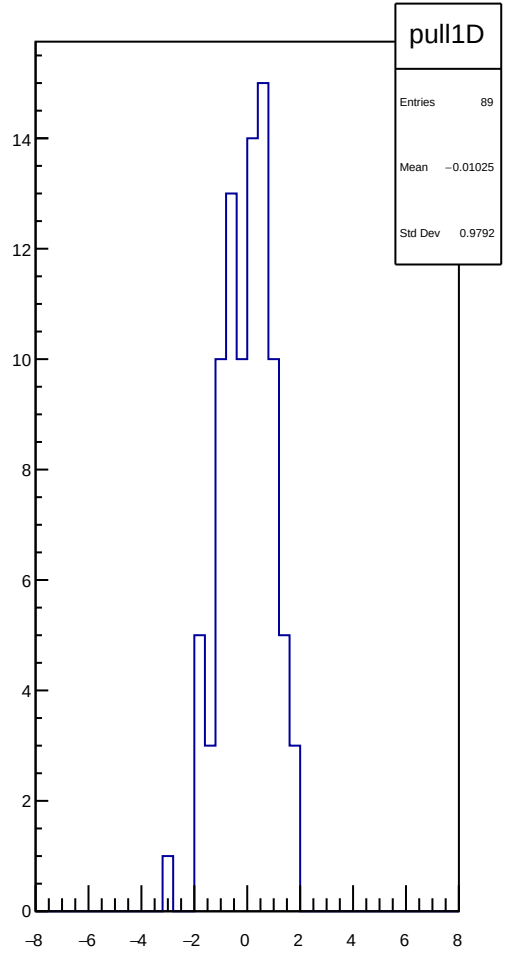

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.813e+05 / 88
p0 7.403e−11 ± 6.894e−14
0.5
0.4
0.3
0.2
0.1

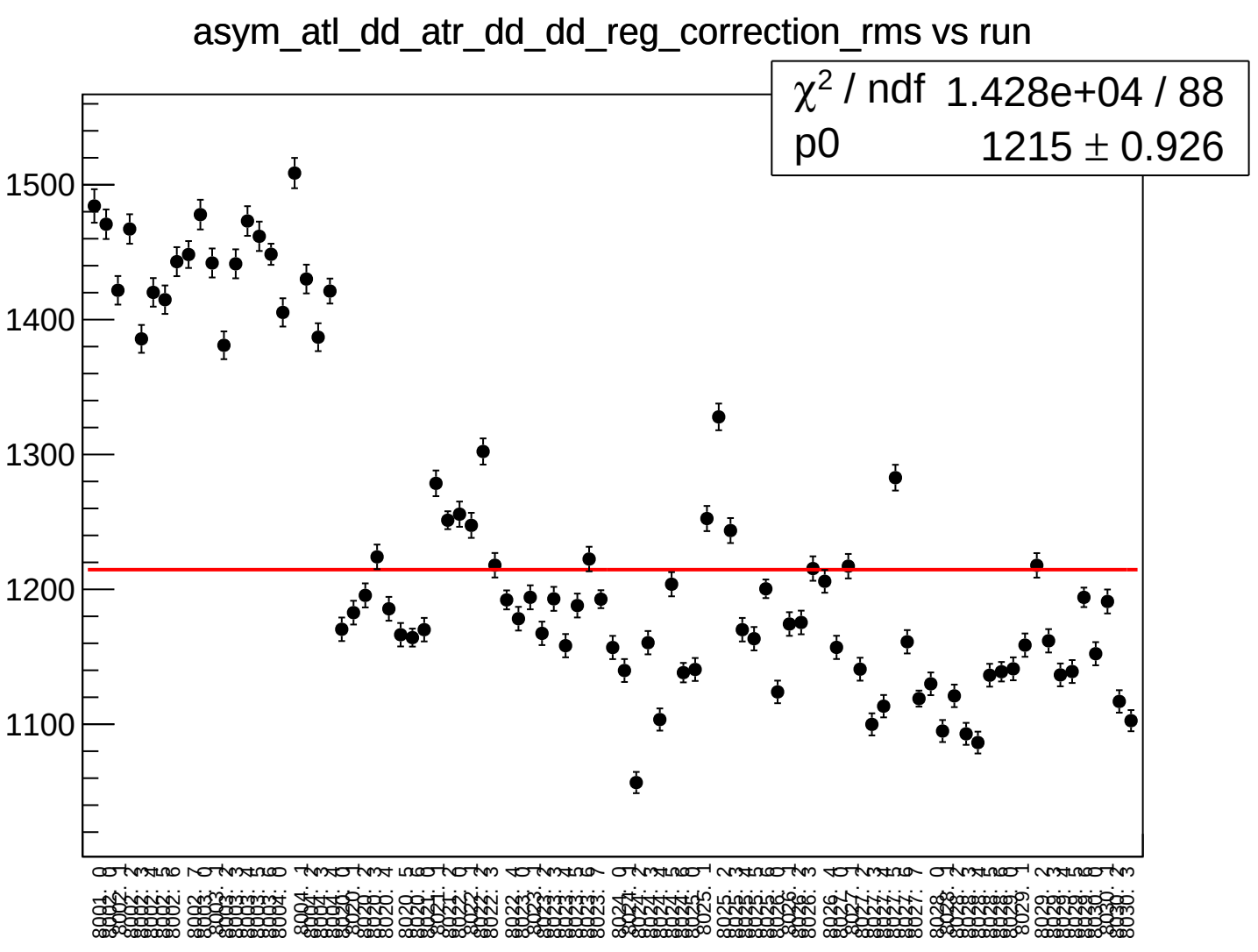

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 95.19 / 88
p0 1375 ± 1354
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −441.3
Std Dev 0
2
1
0
−1
−2

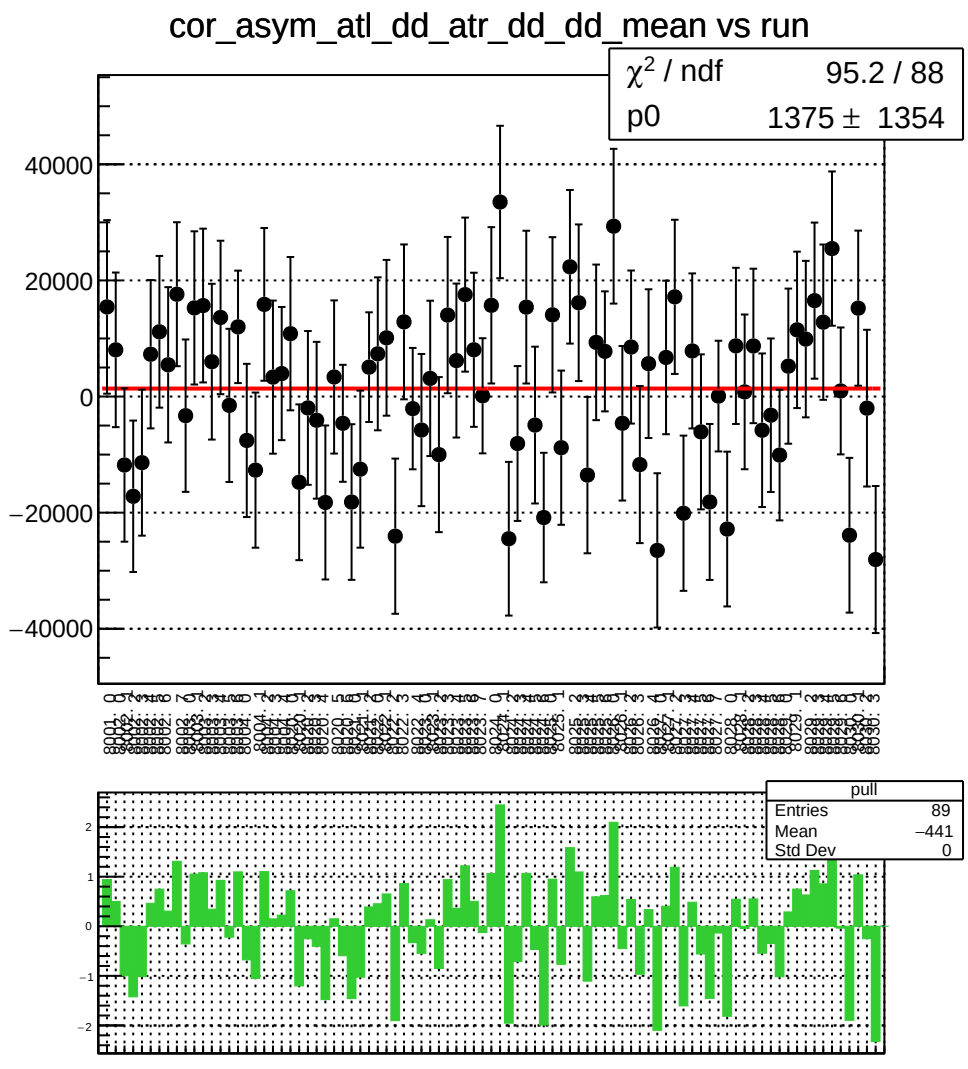

pull1D
Entries 89
Mean 0.002847
Std Dev 1.034
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

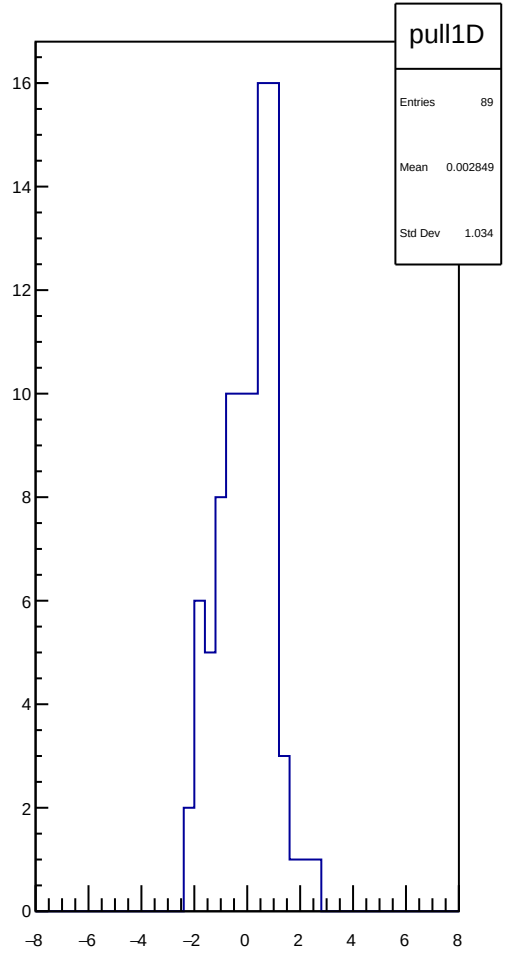

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 231.6 / 88
p0 1261 ± 0.9575
1300
1280
1260
1240
1220
1200
1180

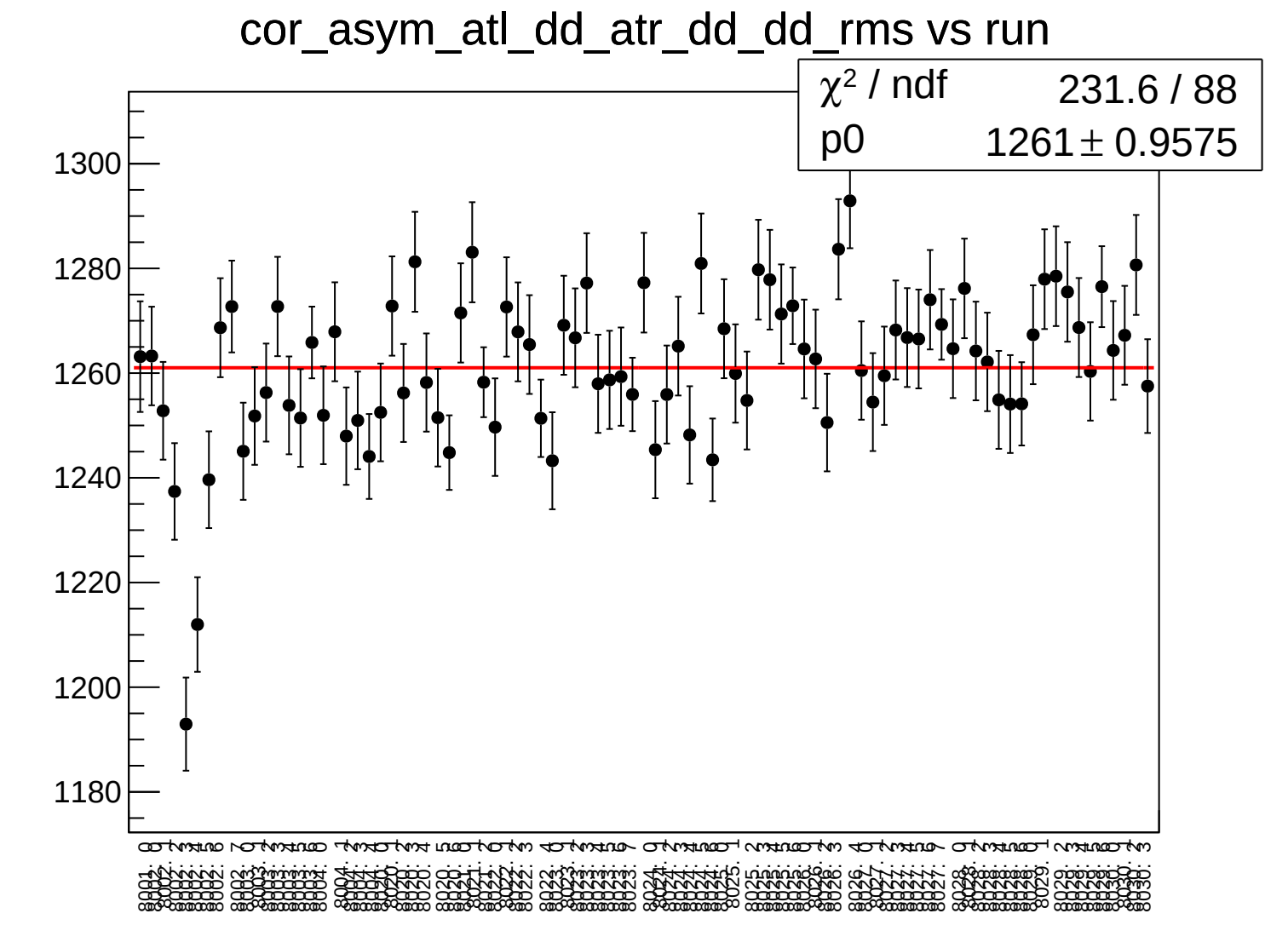

asym_atl_dd_atr_dd_dd_reg_correction_mean vs run
χ² / ndf 85.34 / 88
p0 −556.5 ± 1310
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 234.9
Std Dev 0
2
1
0
−1
−2
−3

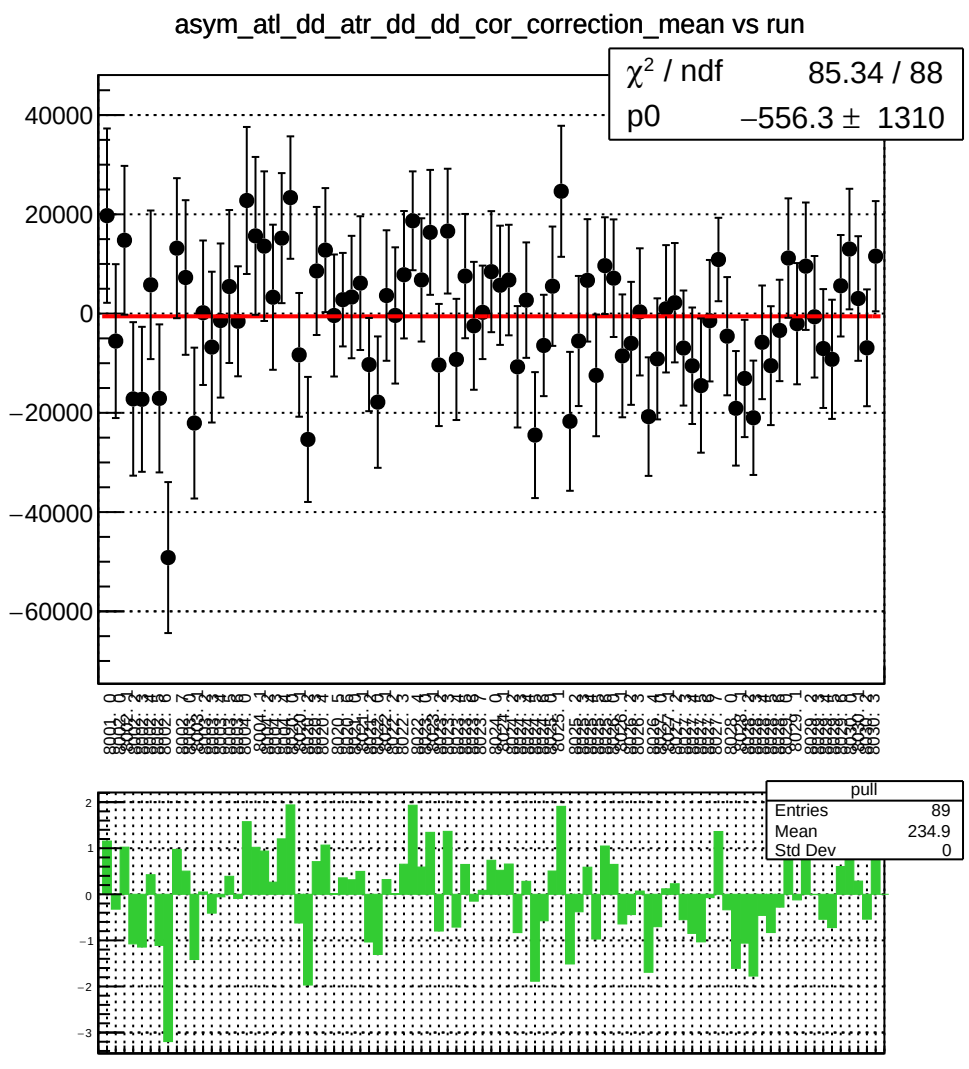

pull1D
Entries 89
Mean −0.01025
Std Dev 0.9792
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

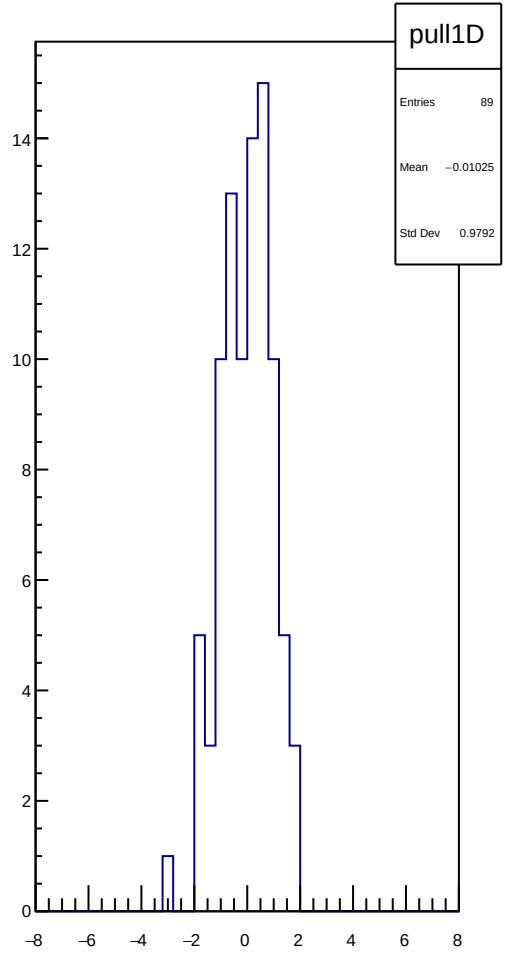

asym_atl_dd_atr_dd_dd_reg_correction_rms vs run
χ² / ndf 1.428e+04 / 88
p0 1215 ± 0.926
1500
1400
1300
1200
1100

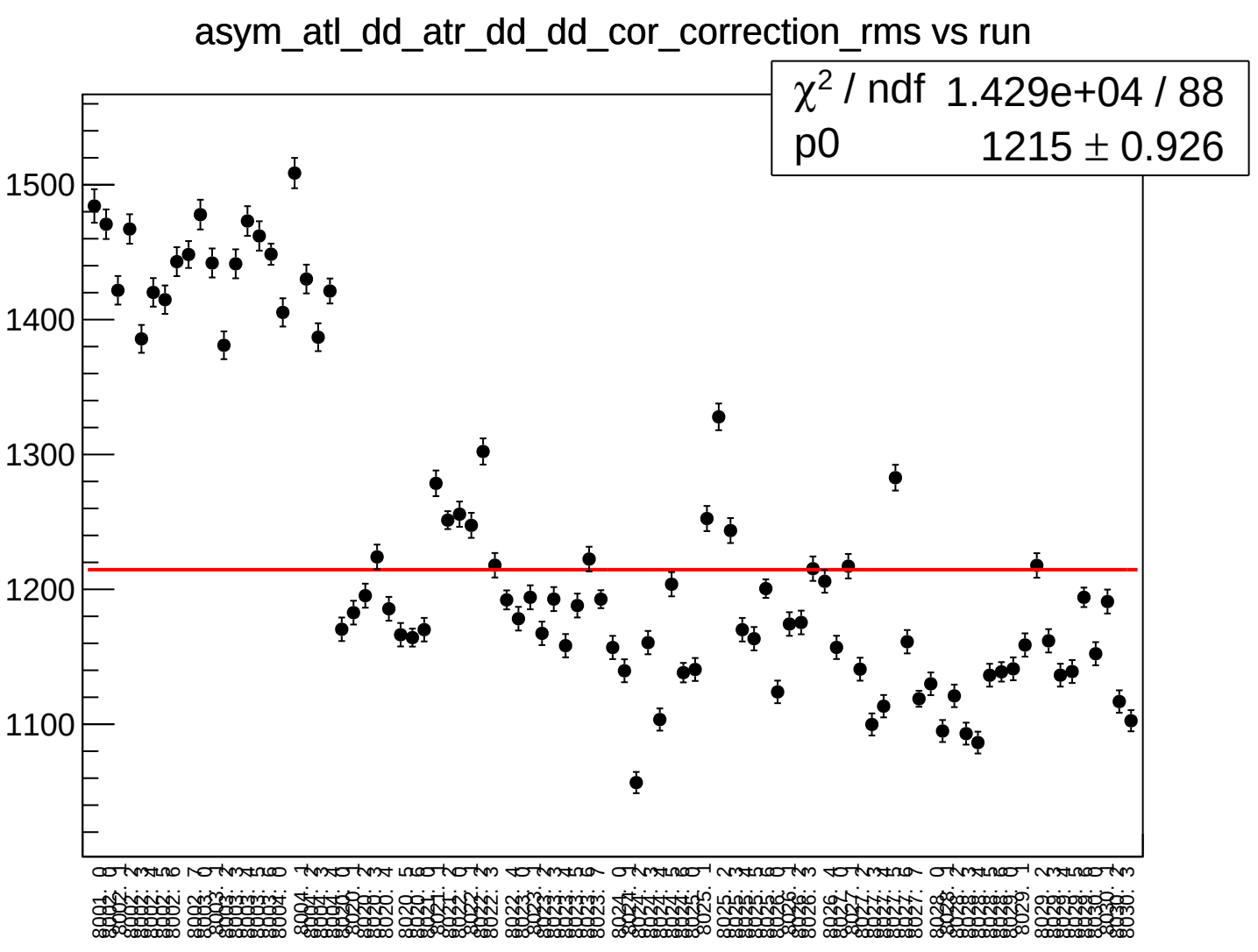

cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 95.2 / 88
p0 1375 ± 1354
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −441
Std Dev 0
2
1
0
−1
−2

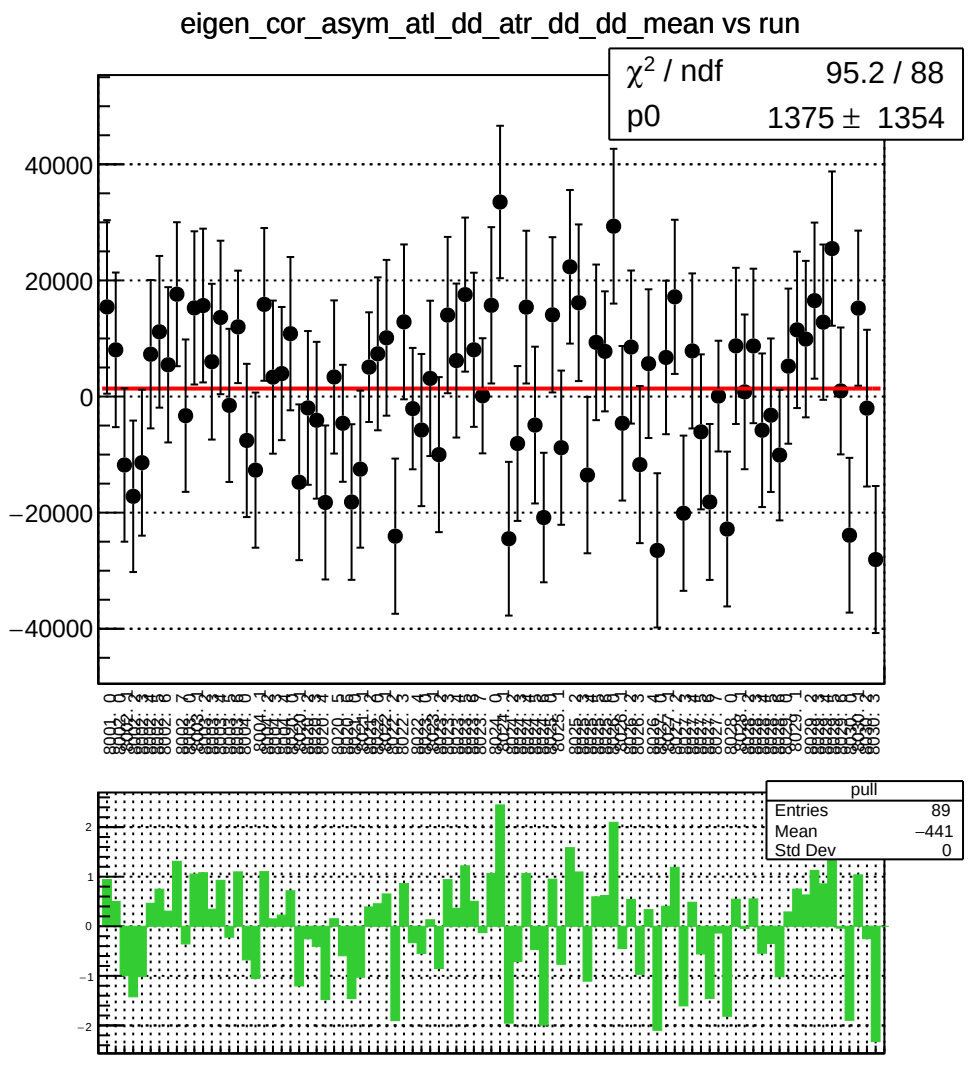

pull1D
Entries 89
Mean 0.002849
Std Dev 1.034
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

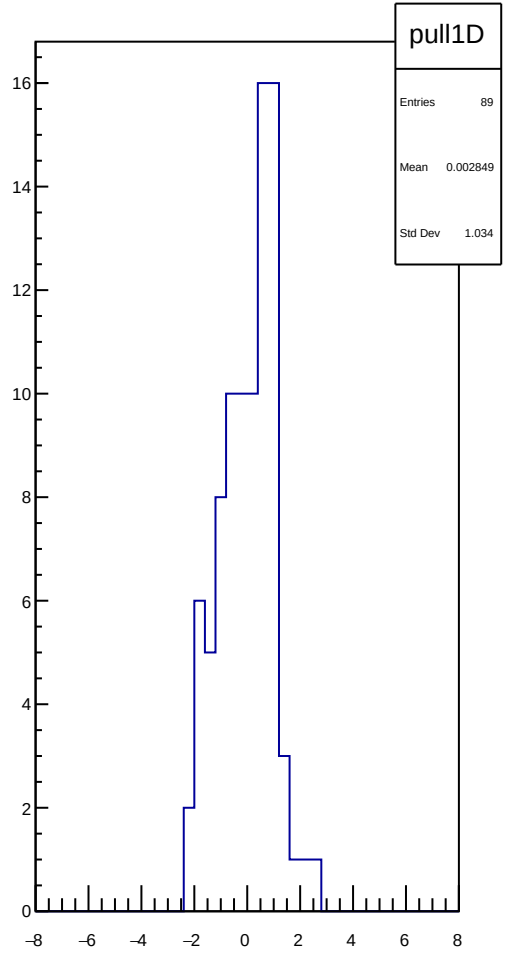

cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 231.6 / 88
p0 1261 ± 0.9575
1300
1280
1260
1240
1220
1200
1180

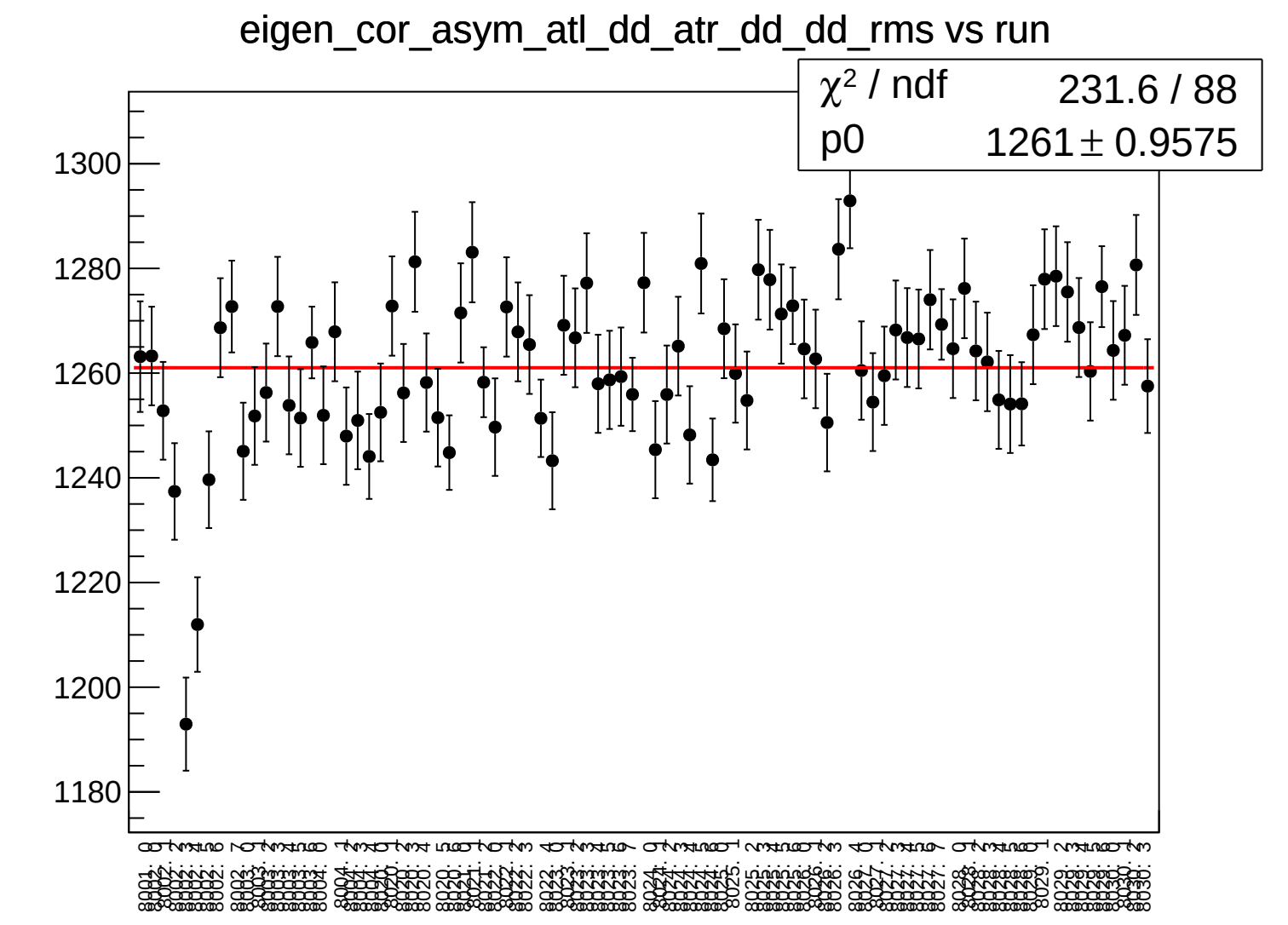

asym_atl_dd_atr_dd_dd_cor_correction_mean vs run
χ² / ndf 85.34 / 88
p0 −556.3 ± 1310
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 234.9
Std Dev 0
2
1
0
−1
−2
−3

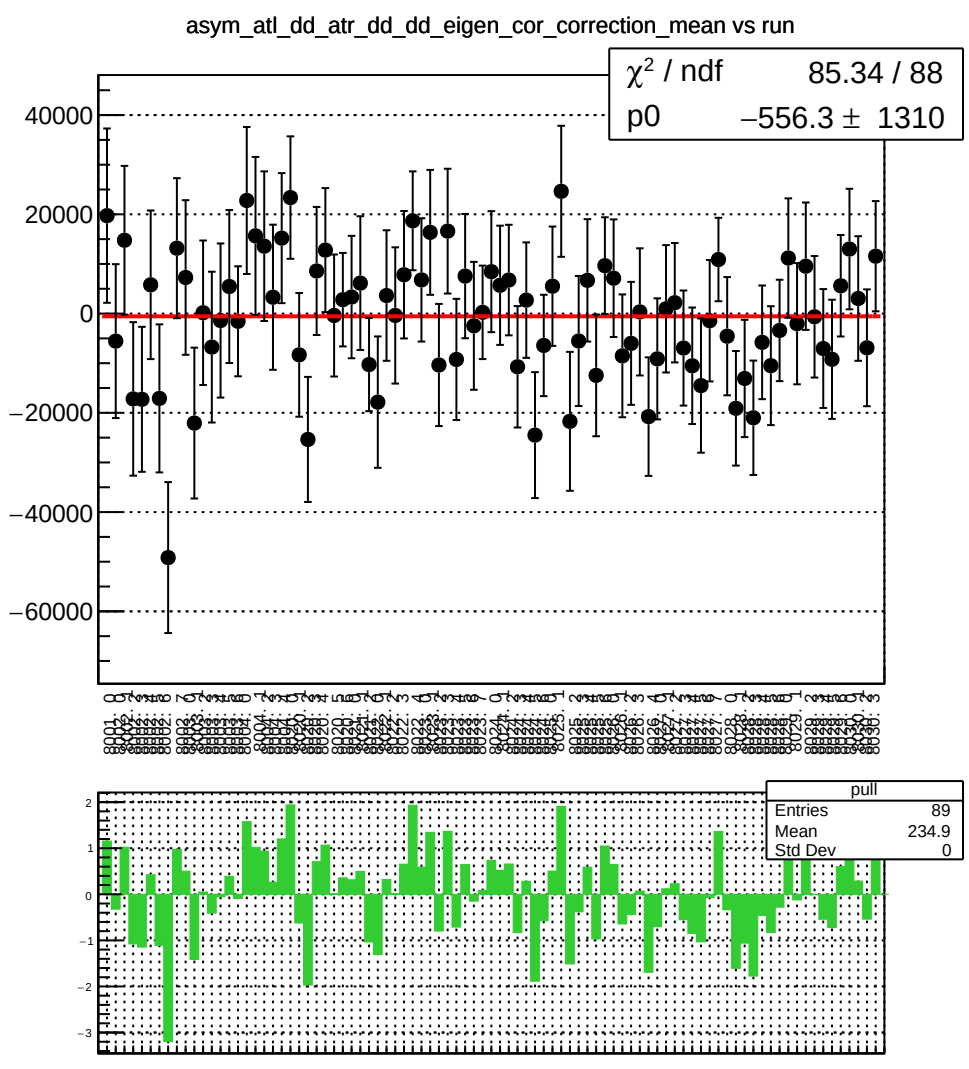

pull1D
Entries 89
Mean −0.01025
Std Dev 0.9792
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

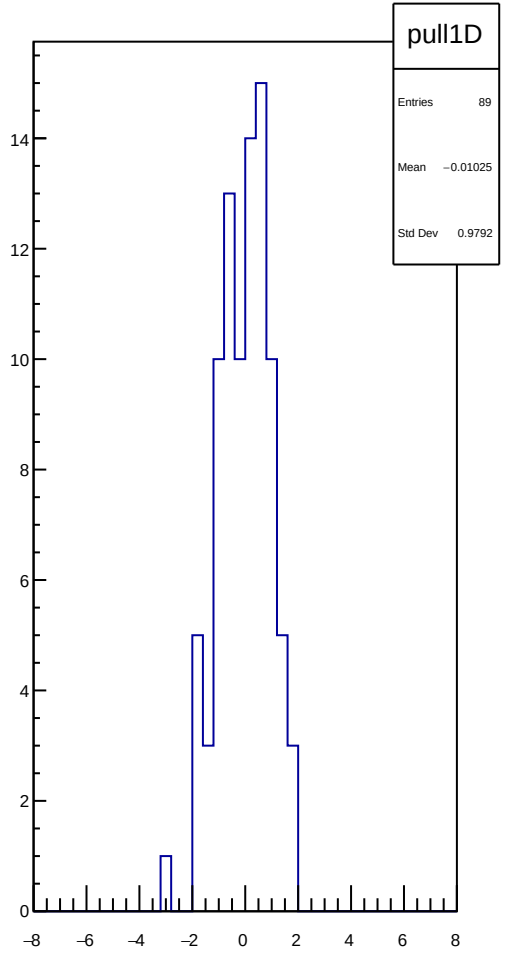

asym_atl_dd_atr_dd_dd_cor_correction_rms vs run
χ² / ndf 1.429e+04 / 88
p0 1215 ± 0.926
1500
1400
1300
1200
1100

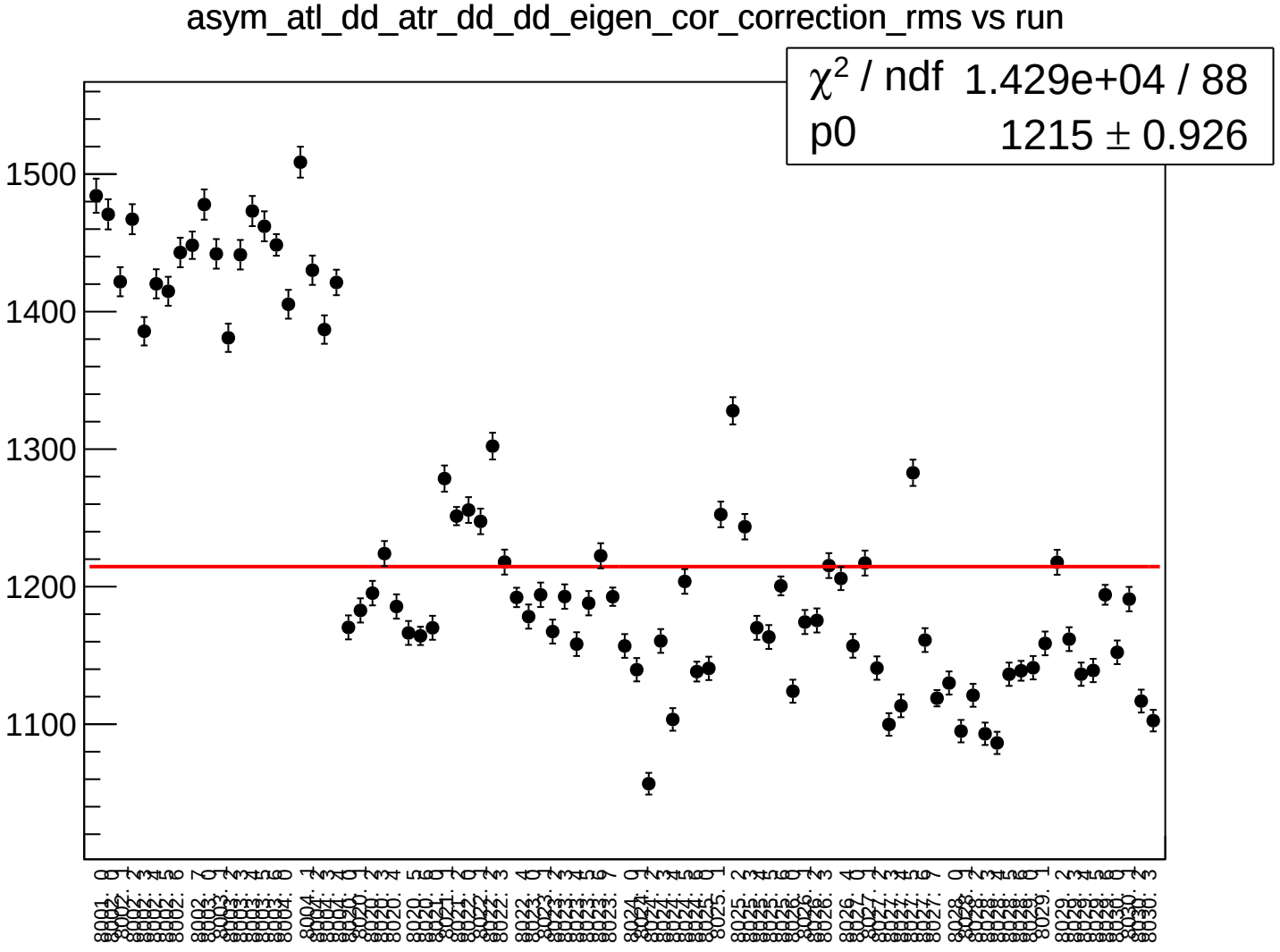

eigen_cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 95.2 / 88
p0 1375 ± 1354
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −441
Std Dev 0
2
1
0
−1
−2

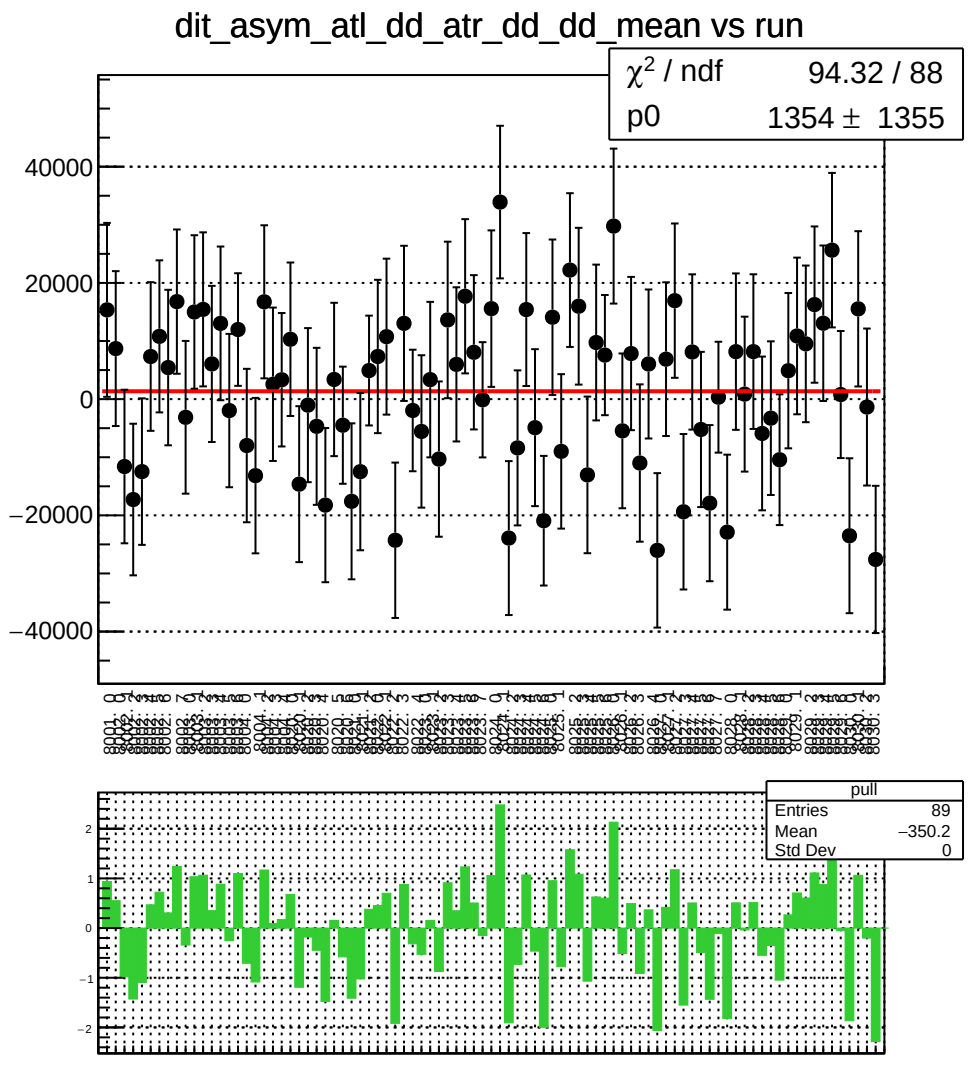

pull1D
Entries 89
Mean 0.002849
Std Dev 1.034
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

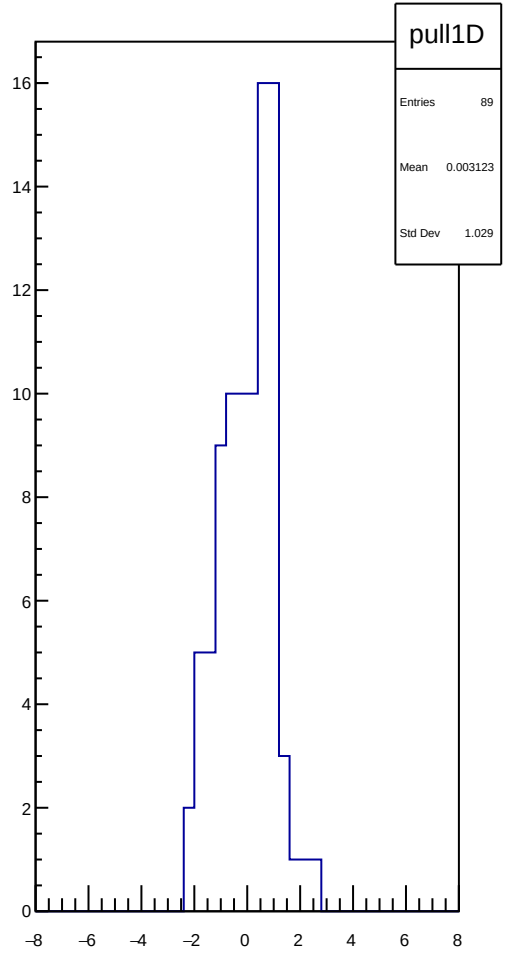

eigen_cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 231.6 / 88
p0 1261 ± 0.9575
1300
1280
1260
1240
1220
1200
1180

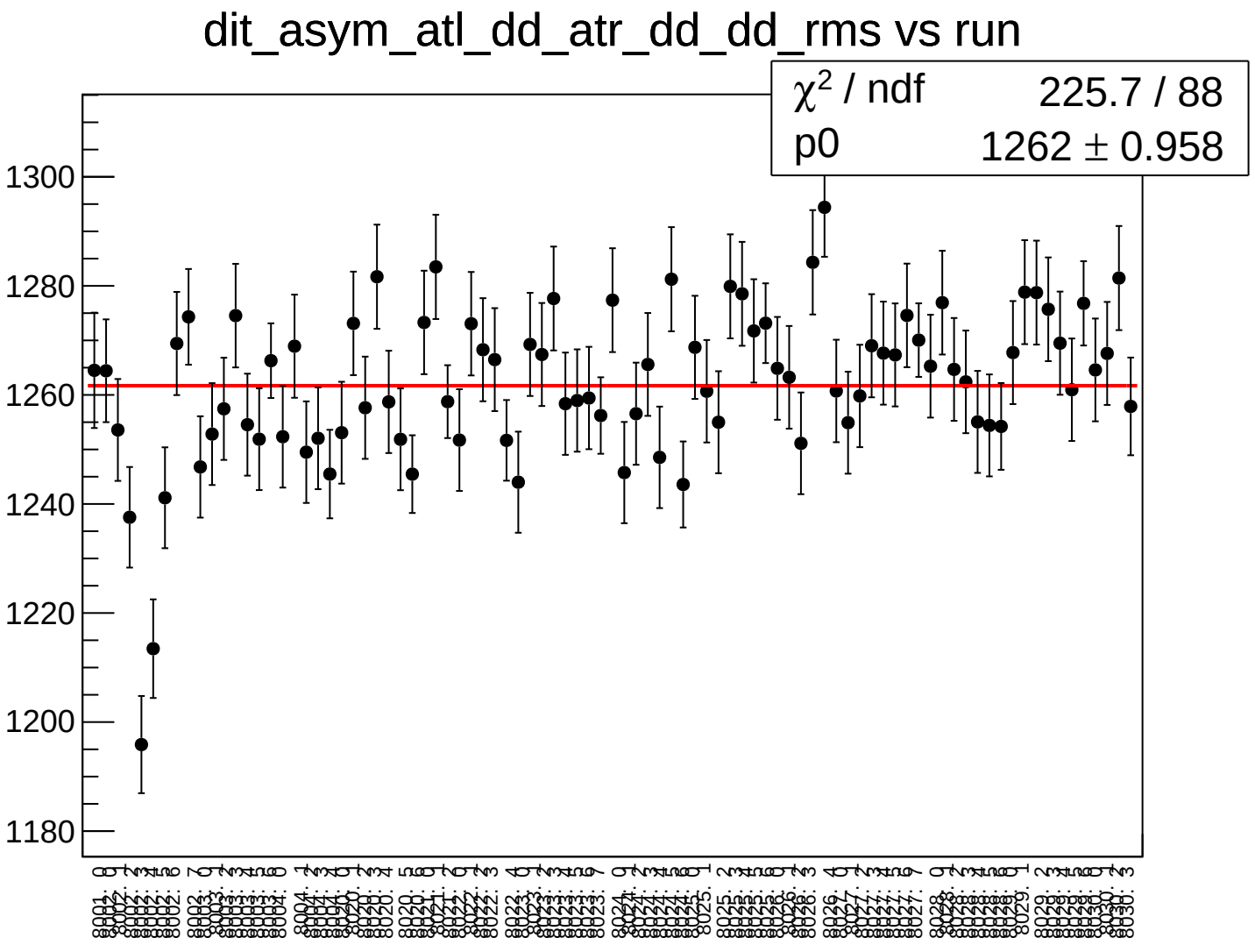

asym_atl_dd_atr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 85.34 / 88
p0 −556.3 ± 1310
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 234.9
Std Dev 0
2
1
0
−1
−2
−3

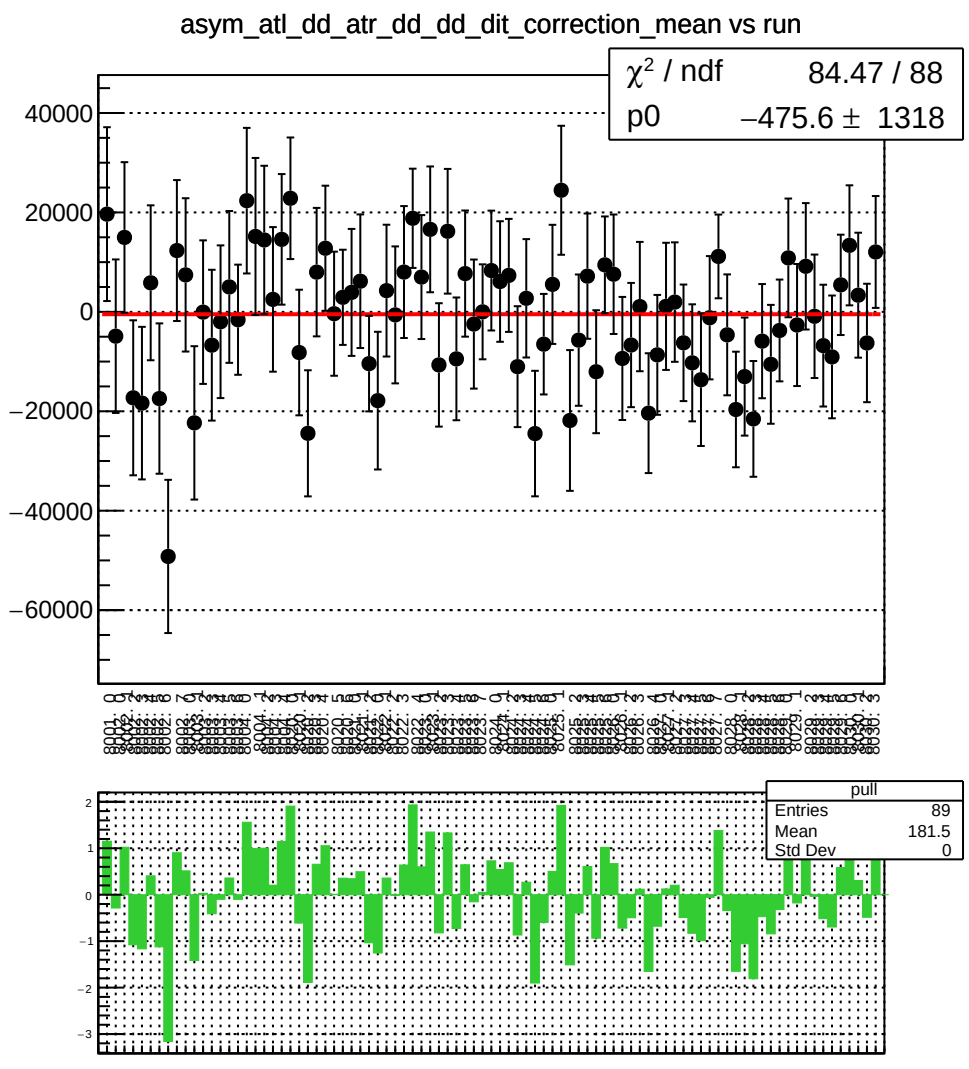

pull1D
Entries 89
Mean −0.01025
Std Dev 0.9792
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

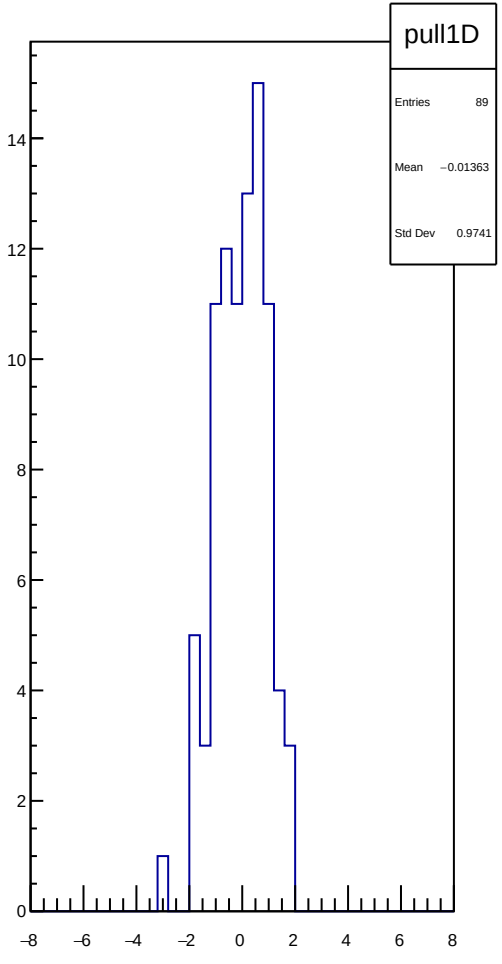

asym_atl_dd_atr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.429e+04 / 88
p0 1215 ± 0.926
1500
1400
1300
1200
1100

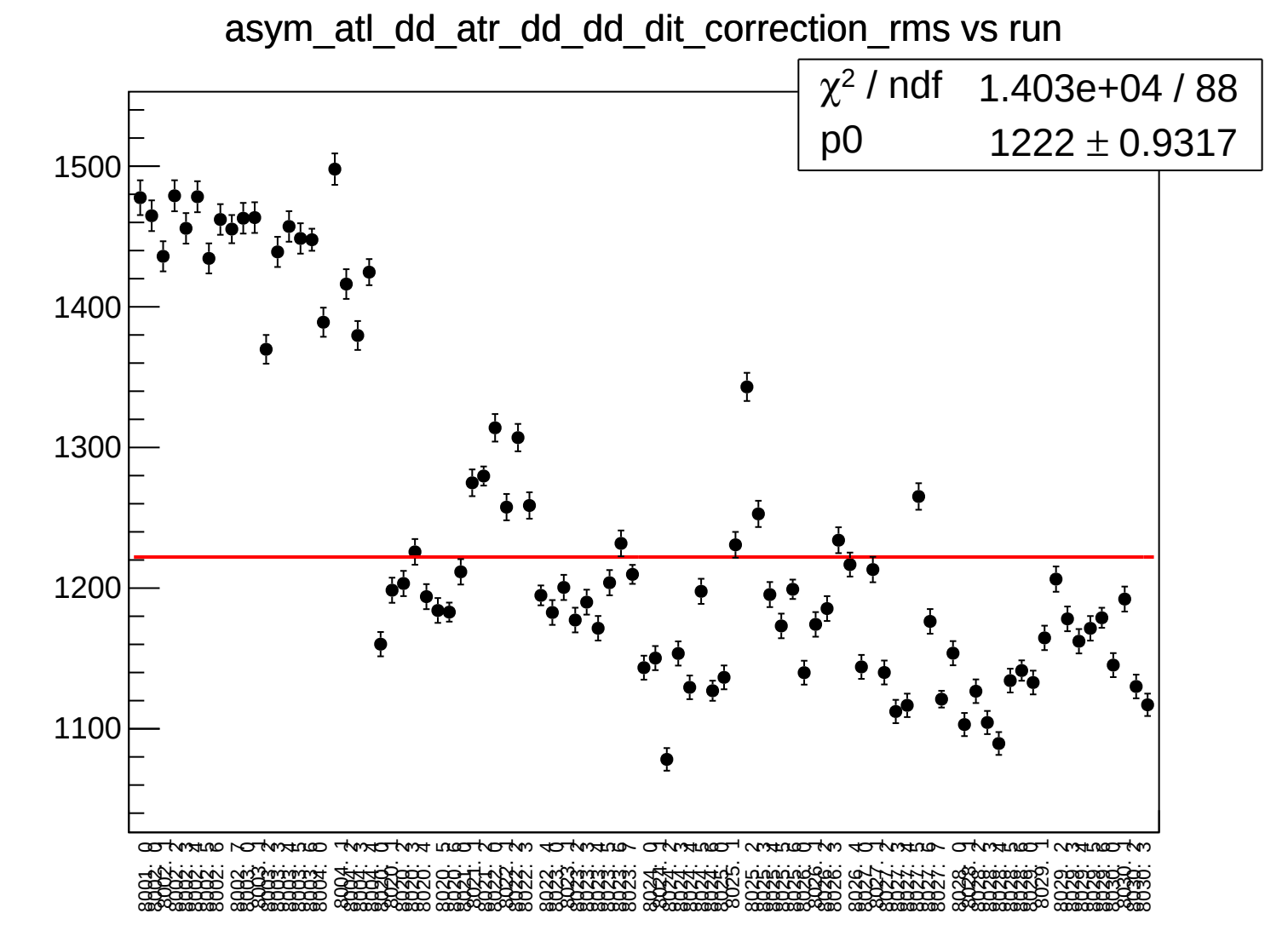

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 94.32 / 88
p0 1354 ± 1355
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −350.2
Std Dev 0
2
1
0
−1
−2

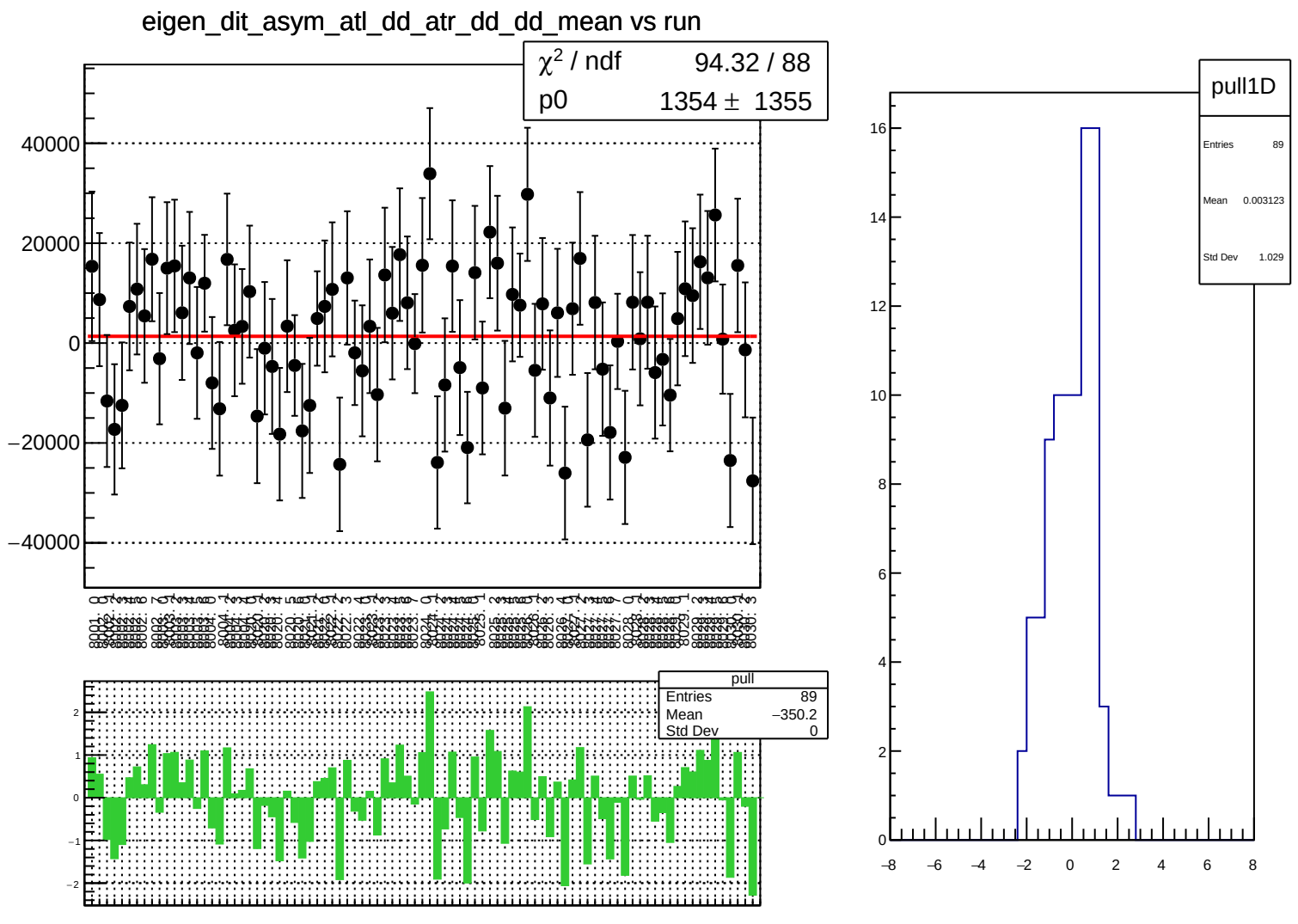

pull1D
Entries 89
Mean 0.003123
Std Dev 1.029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

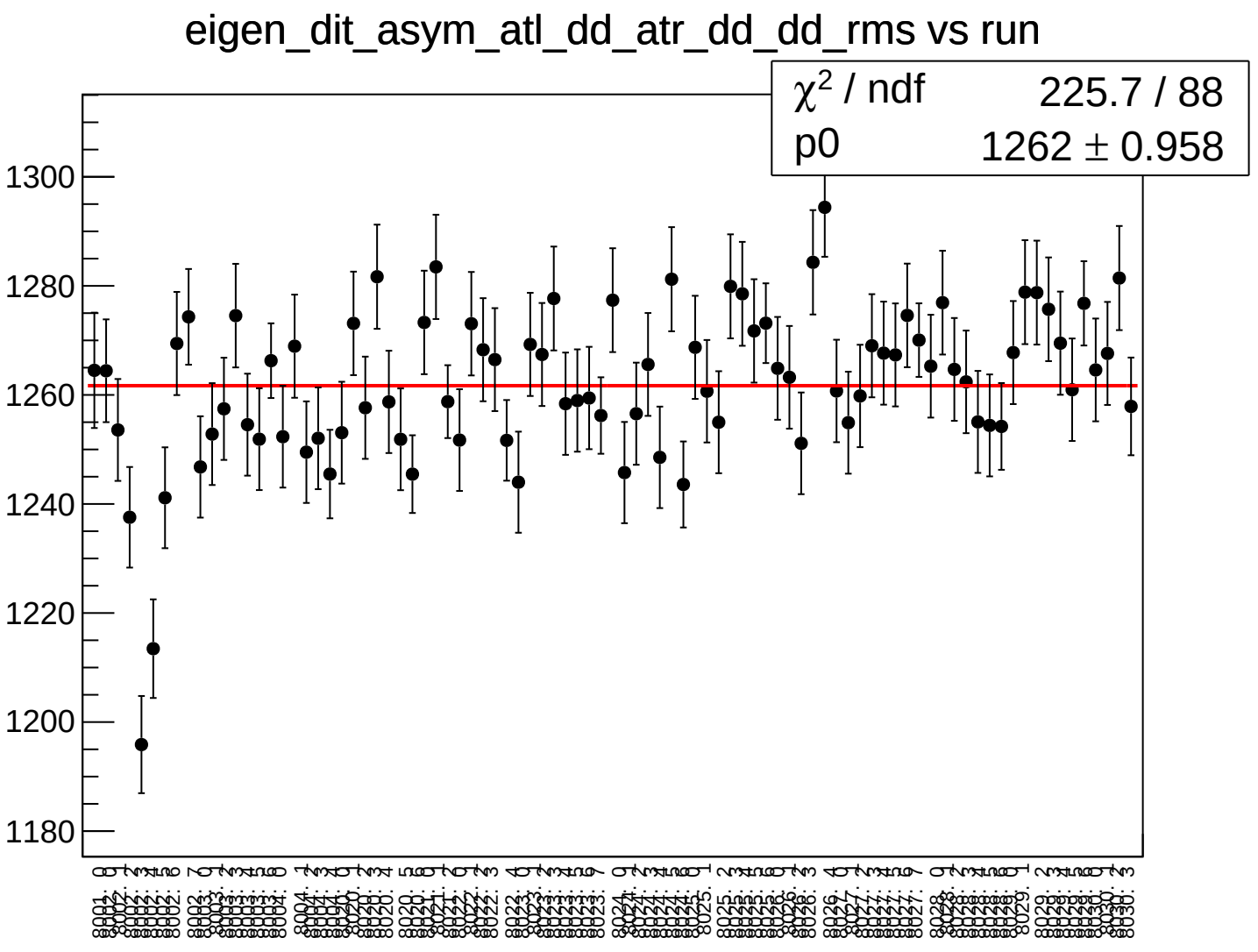

dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 225.7 / 88
p0 1262 ± 0.958
1300
1280
1260
1240
1220
1200
1180

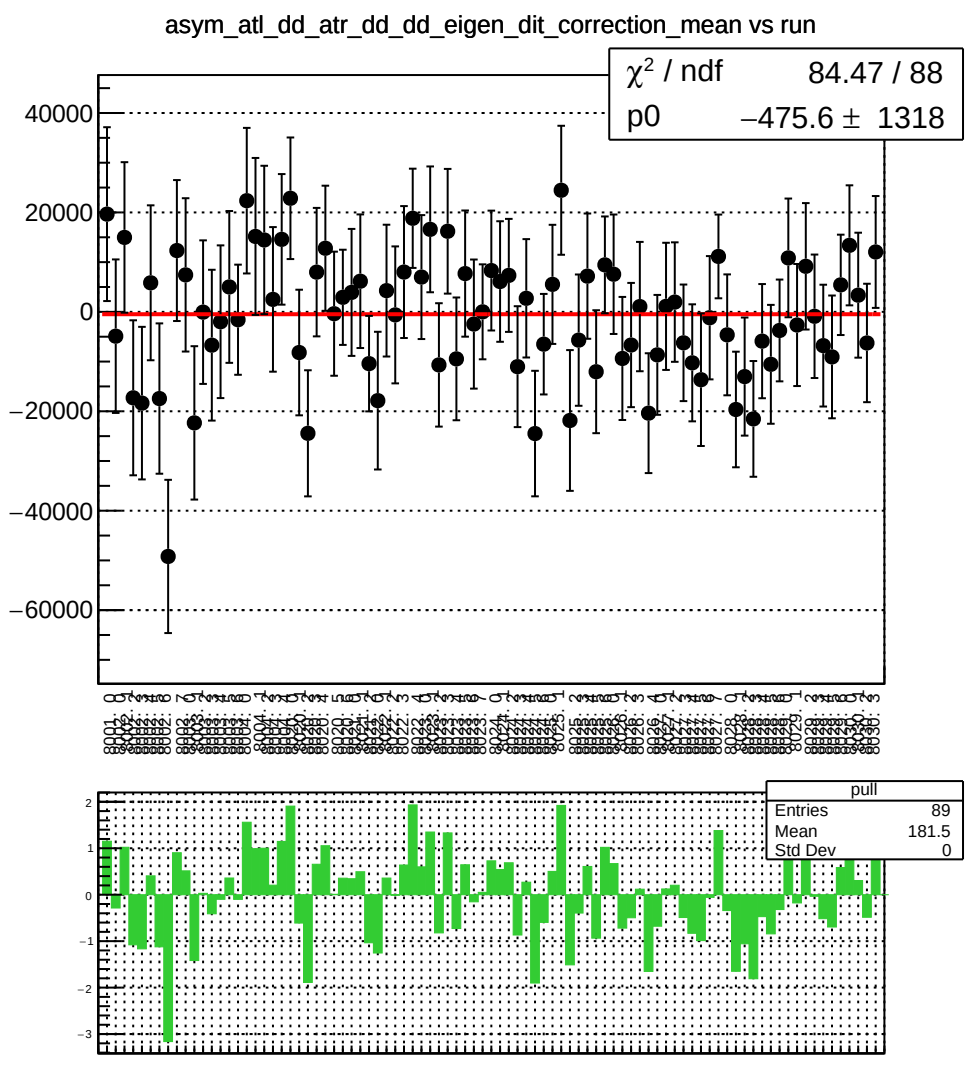

asym_atl_dd_atr_dd_dd_dit_correction_mean vs run
χ² / ndf 84.47 / 88
p0 −475.6 ± 1318
pull
Entries 89
Mean 181.5
Std Dev 0

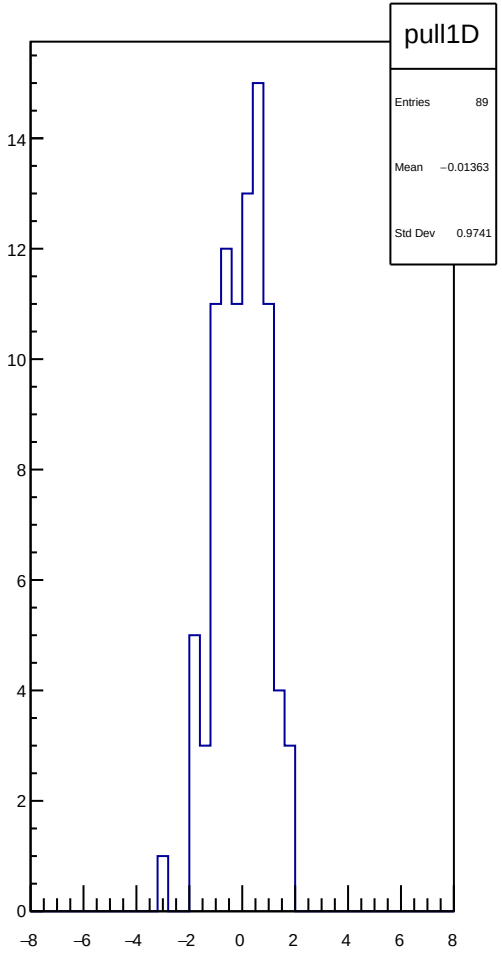

pull1D
Entries 89
Mean −0.01363
Std Dev 0.9741

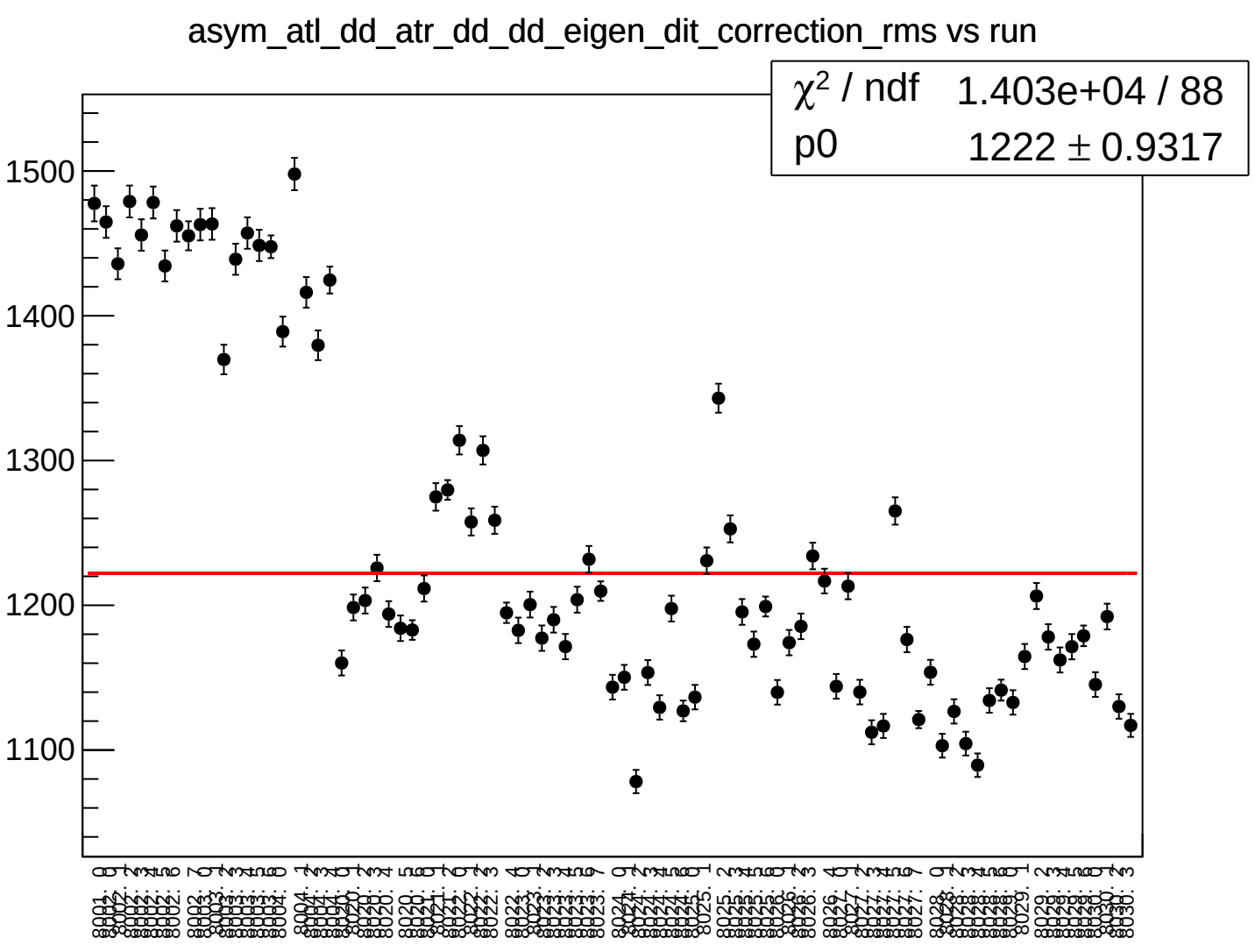

asym_atl_dd_atr_dd_dd_dit_correction_rms vs run
χ² / ndf 1.403e+04 / 88
p0 1222 ± 0.9317
1500
1400
1300
1200
1100

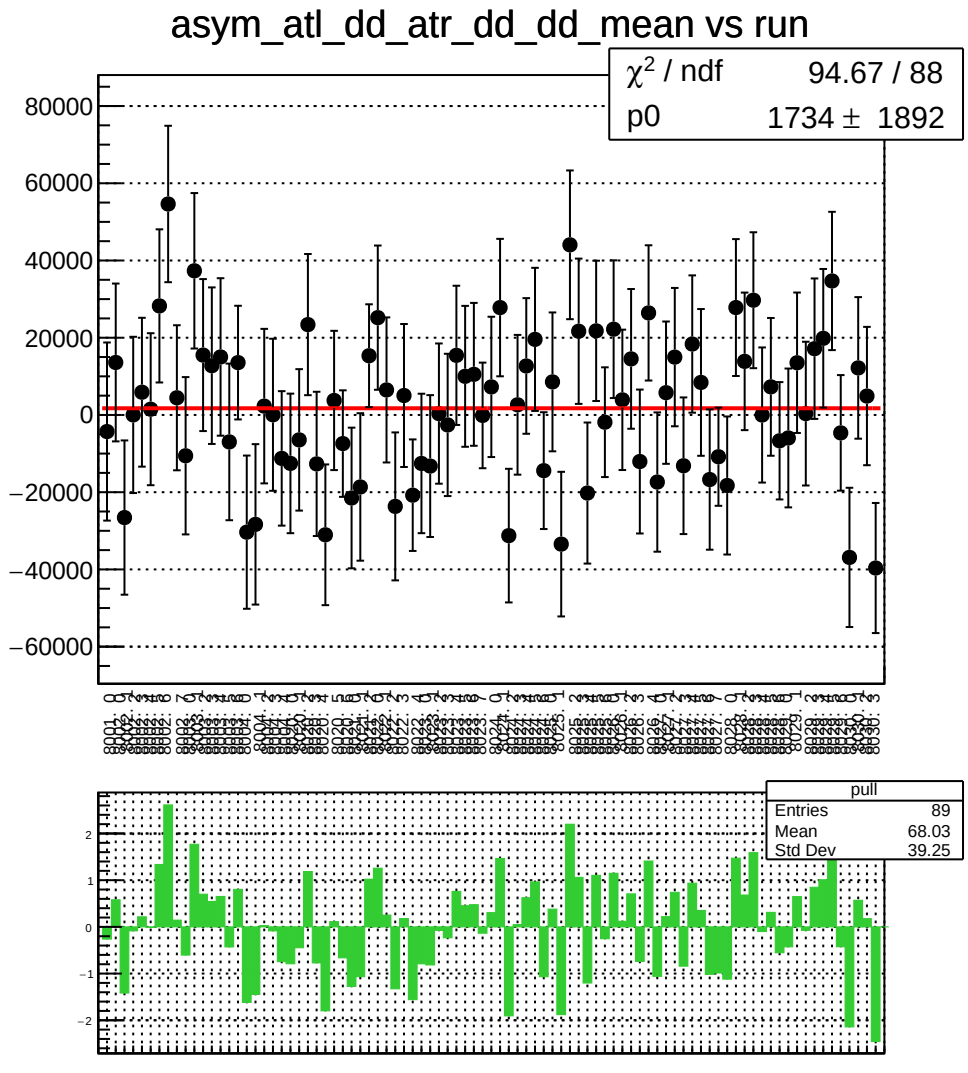

eigen_dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 94.32 / 88
p0 1354 ± 1355
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −350.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.003123
Std Dev 1.029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

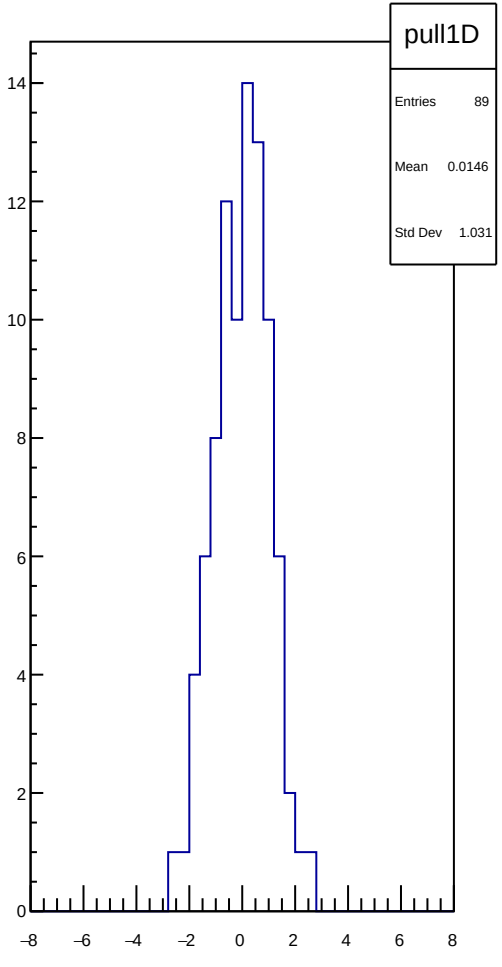

eigen_dit_asym_atl_dd_atr_dd_dd_rms vs run
χ^2 / ndf 225.7 / 88
p0 1262 ± 0.958
1300
1280
1260
1240
1220
1200
1180

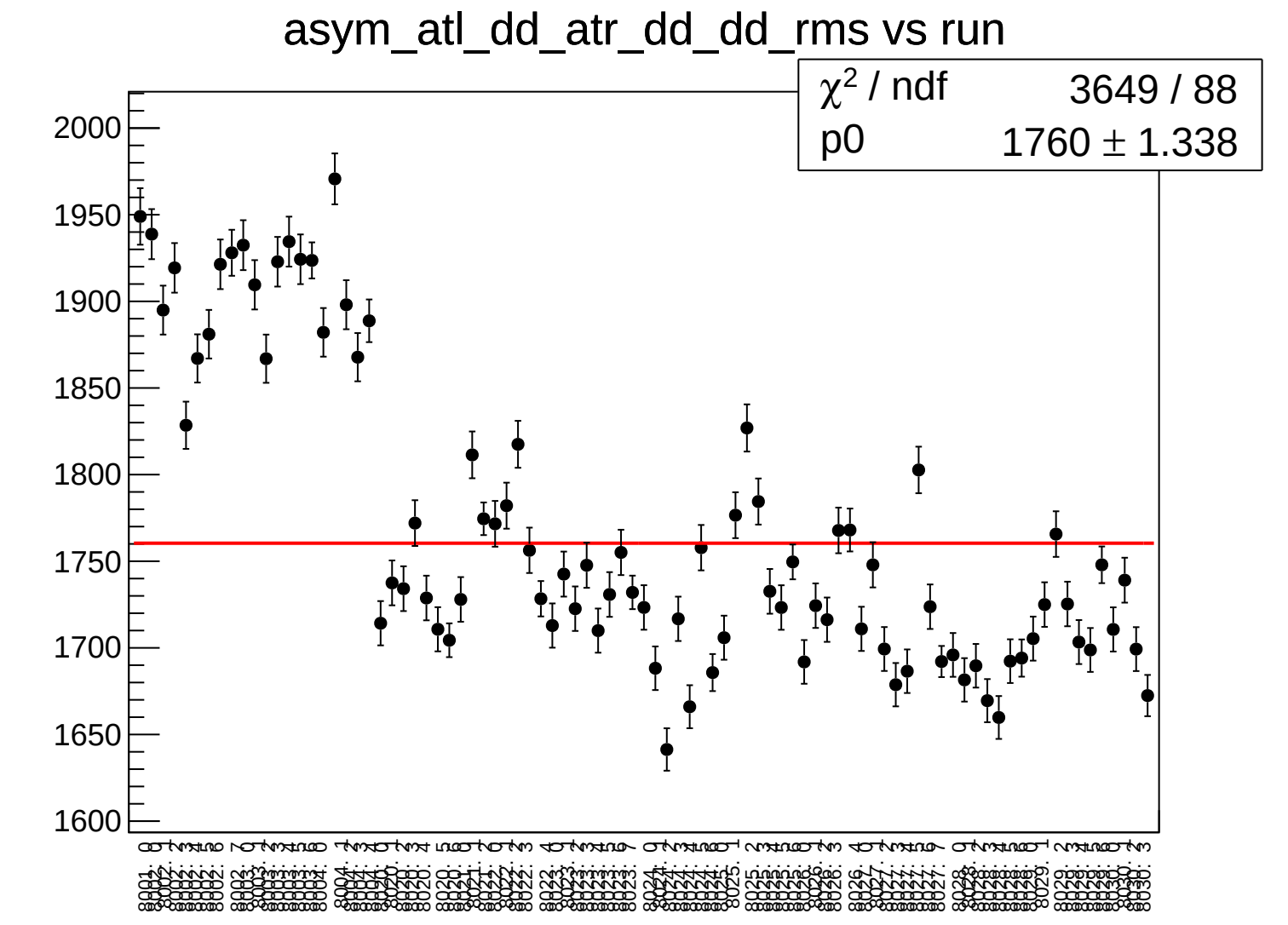

asym_atl_dd_atr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 84.47 / 88
p0 −475.6 ± 1318
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 181.5
Std Dev 0
2
1
0
−1
−2
−3

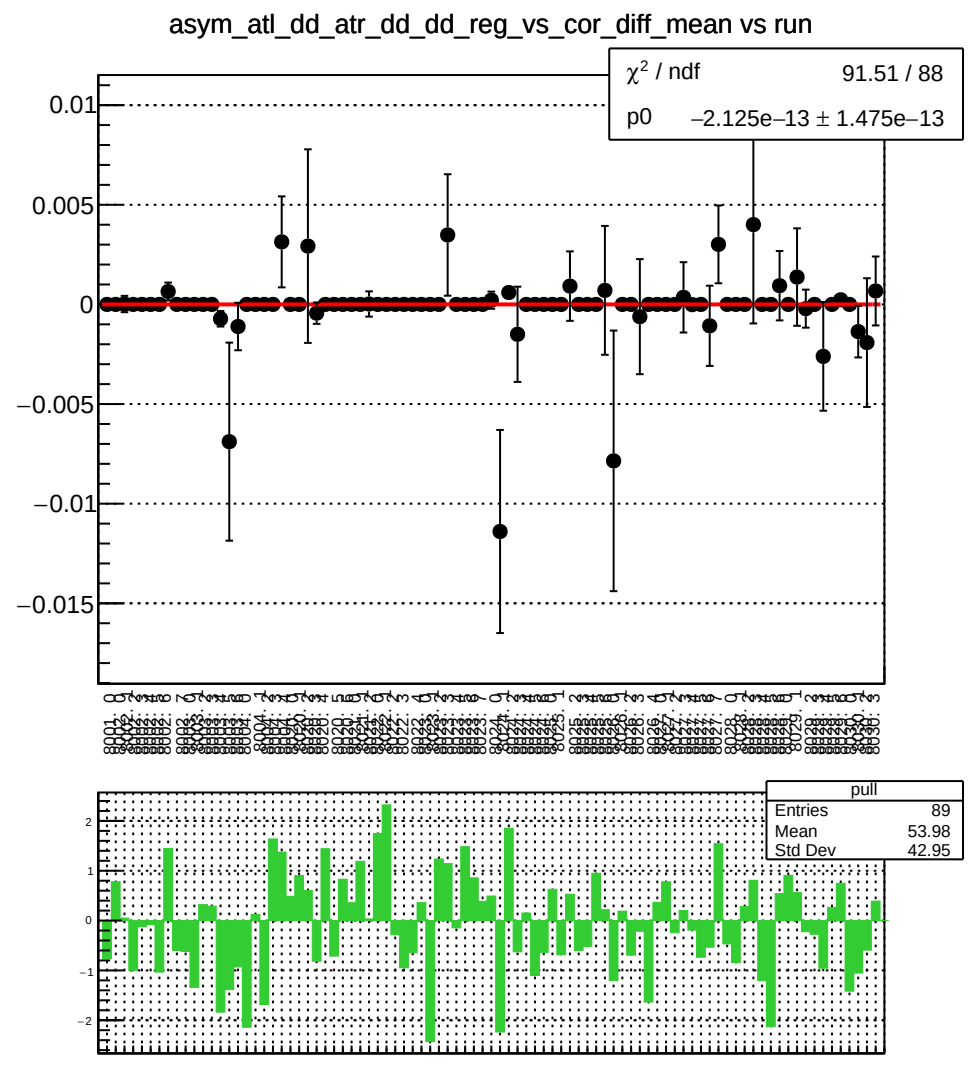

pull1D
Entries 89
Mean −0.01363
Std Dev 0.9741
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

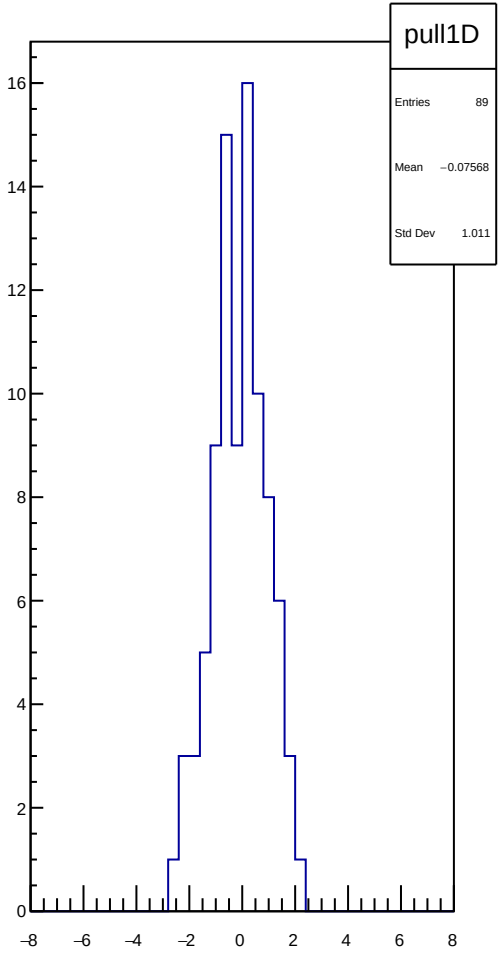

asym_atl_dd_atr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.403e+04 / 88
p0 1222 ± 0.9317
1500
1400
1300
1200
1100

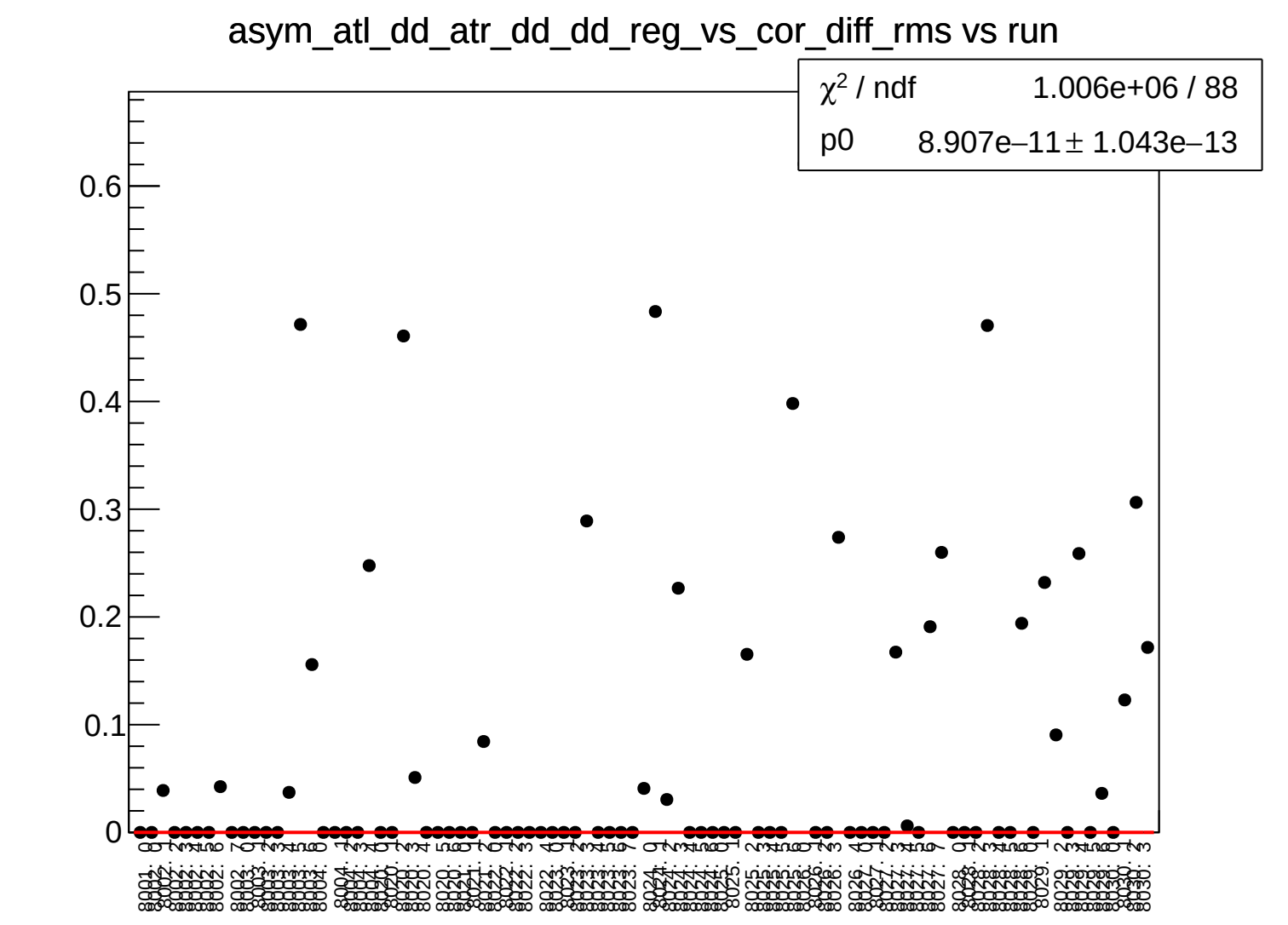

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 94.67 / 88
p0 1734 ± 1892
pull
Entries 89
Mean 68.03
Std Dev 39.25

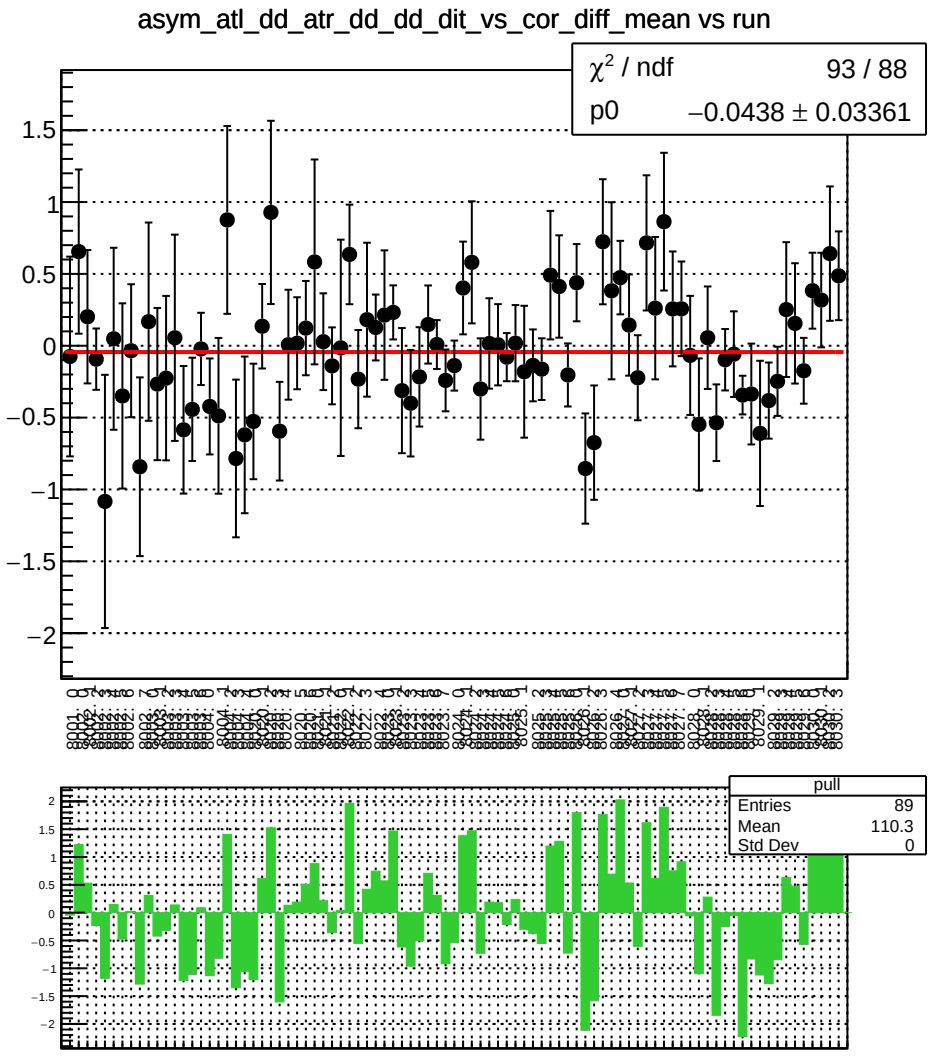

pull1D
Entries 89
Mean 0.0146
Std Dev 1.031

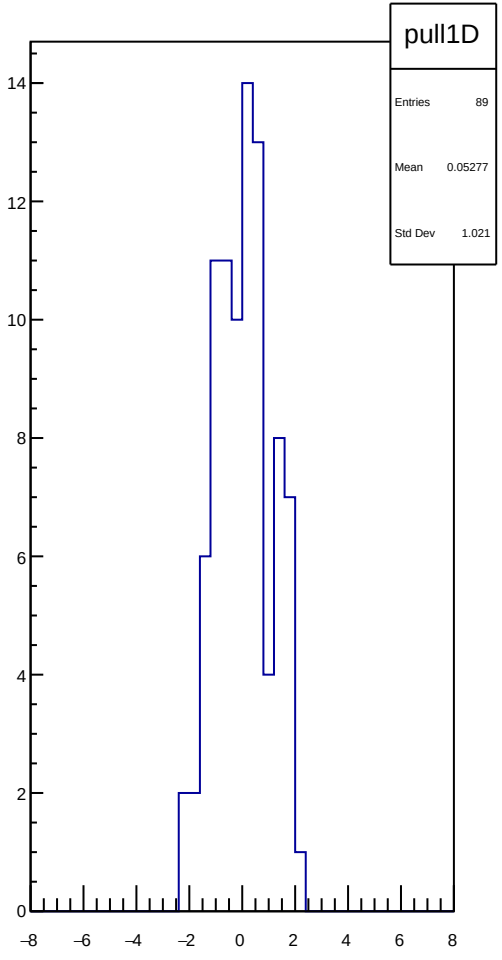

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 3649 / 88
p0 1760 ± 1.338
2000
1950
1900
1850
1800
1750
1700
1650
1600

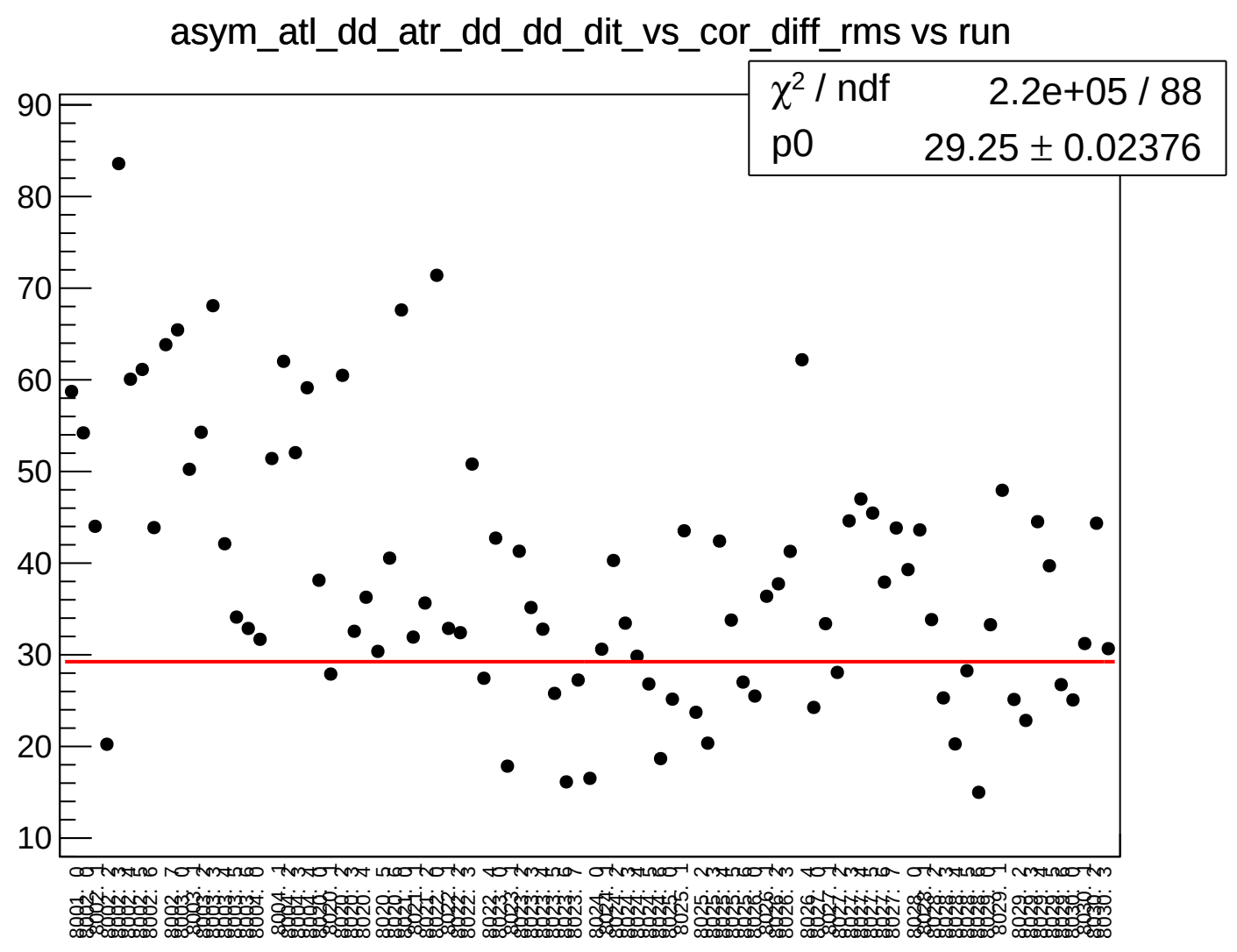

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 91.51 / 88
p0 −2.125e−13 ± 1.475e−13
pull
Entries 89
Mean 53.98
Std Dev 42.95

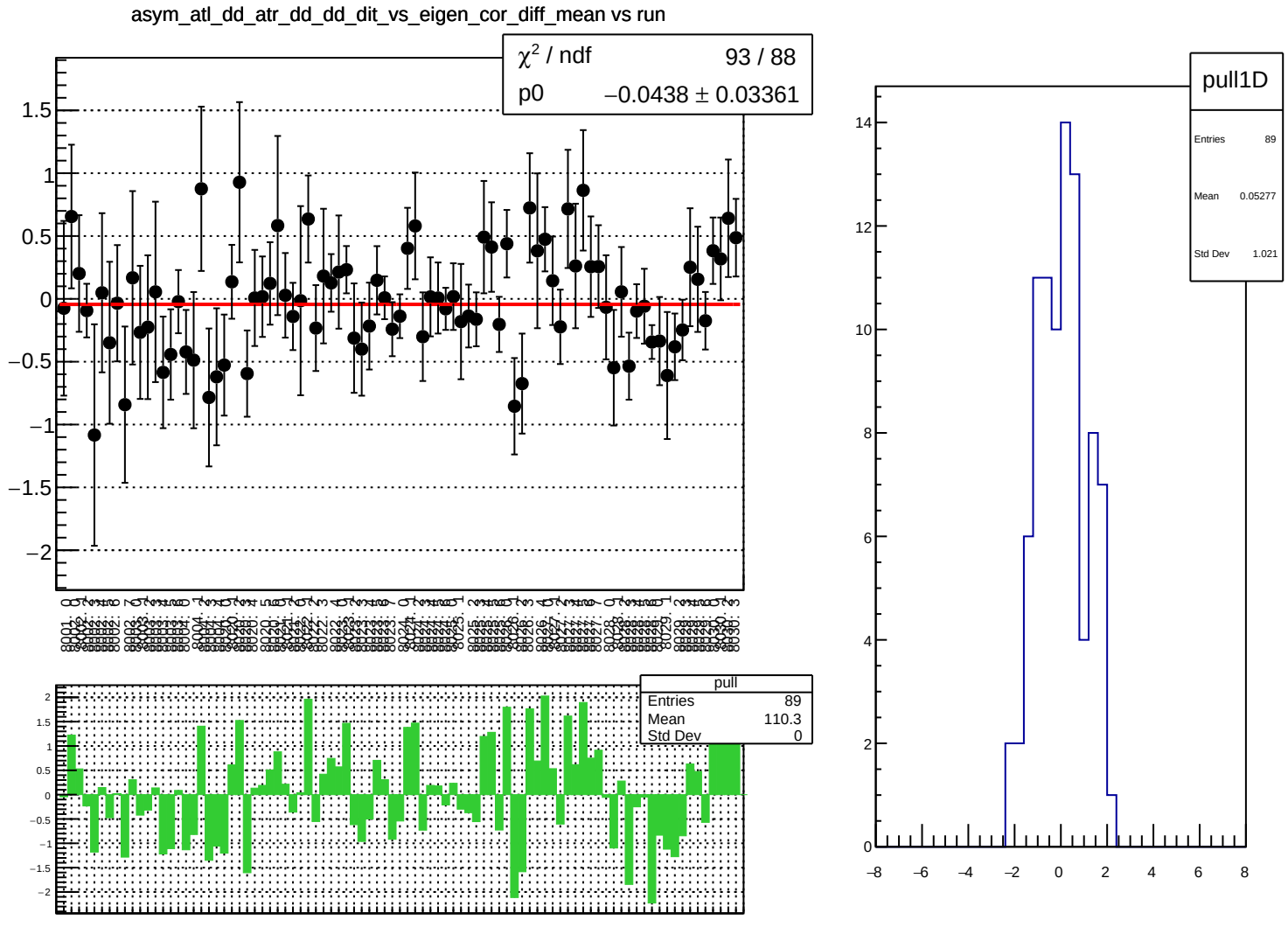

pull1D
Entries 89
Mean −0.07568
Std Dev 1.011

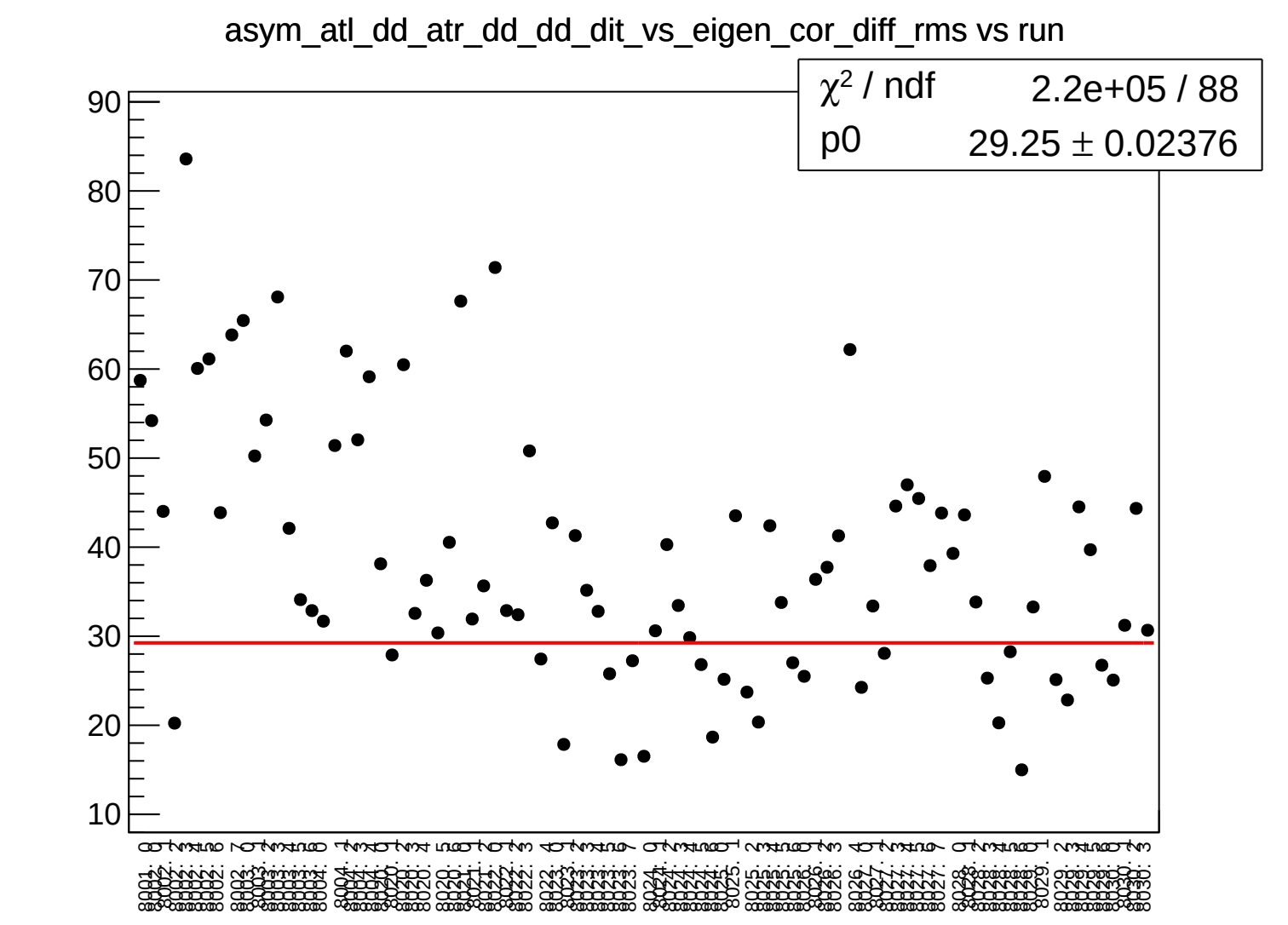

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.006e+06 / 88
p0 8.907e−11 ± 1.043e−13
0.6
0.5
0.4
0.3
0.2
0.1
0

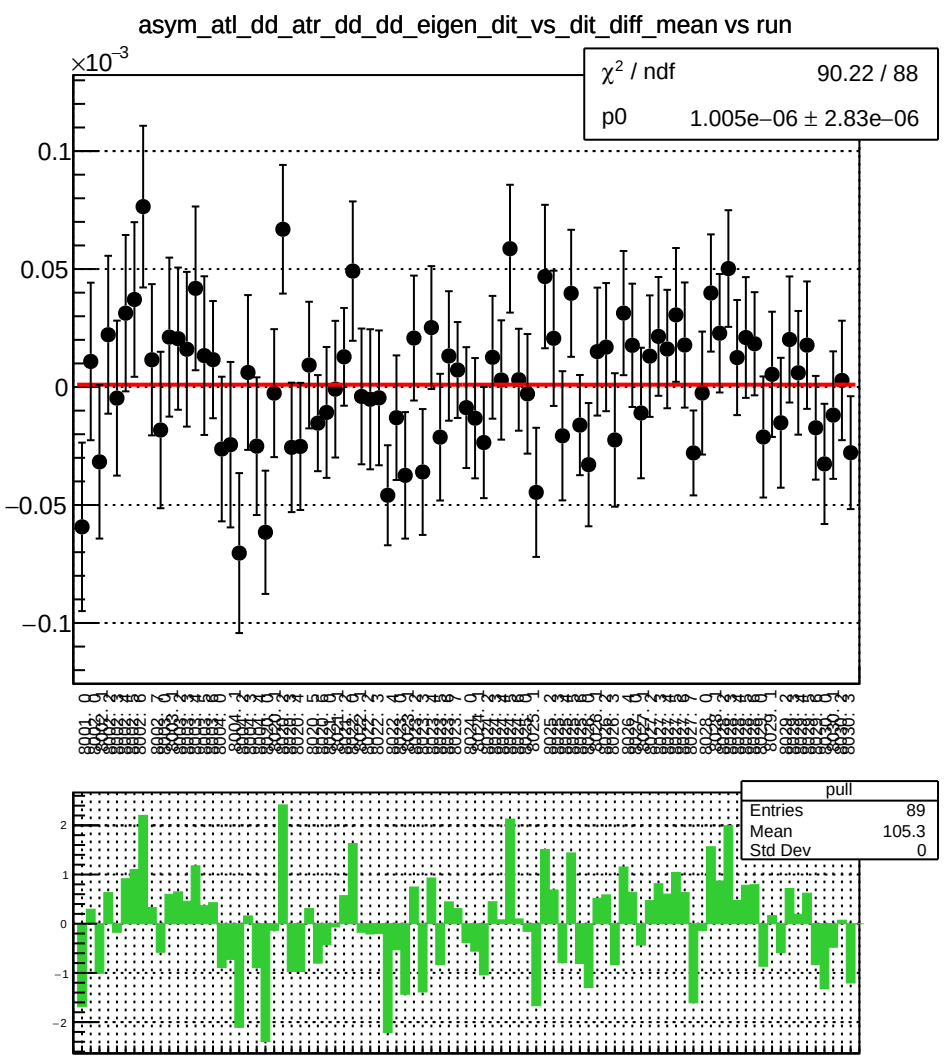

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 93 / 88
p0 −0.0438 ± 0.03361
pull
Entries 89
Mean 110.3
Std Dev 0

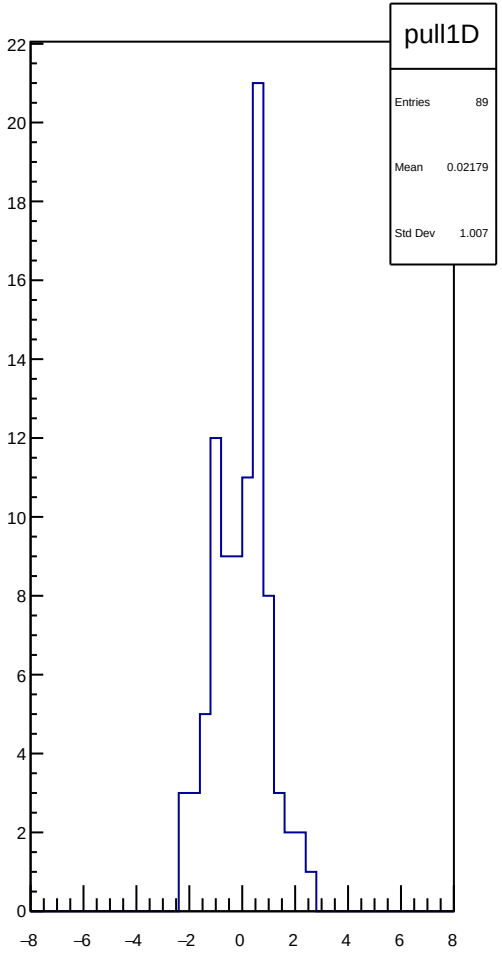

pull1D
Entries 89
Mean 0.05277
Std Dev 1.021

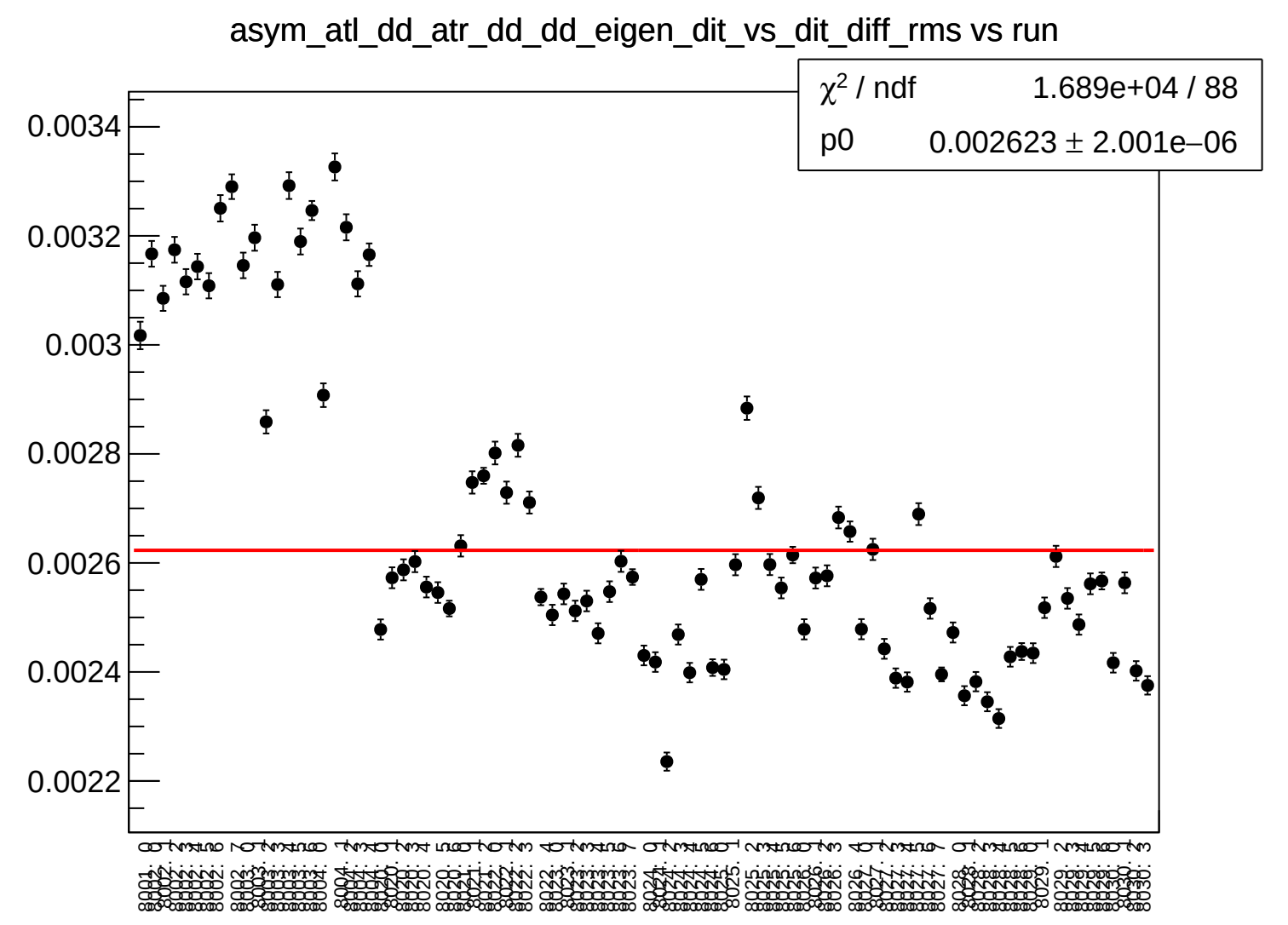

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.2e+05 / 88
p0 29.25 ± 0.02376
90
80
70
60
50
40
30
20
10

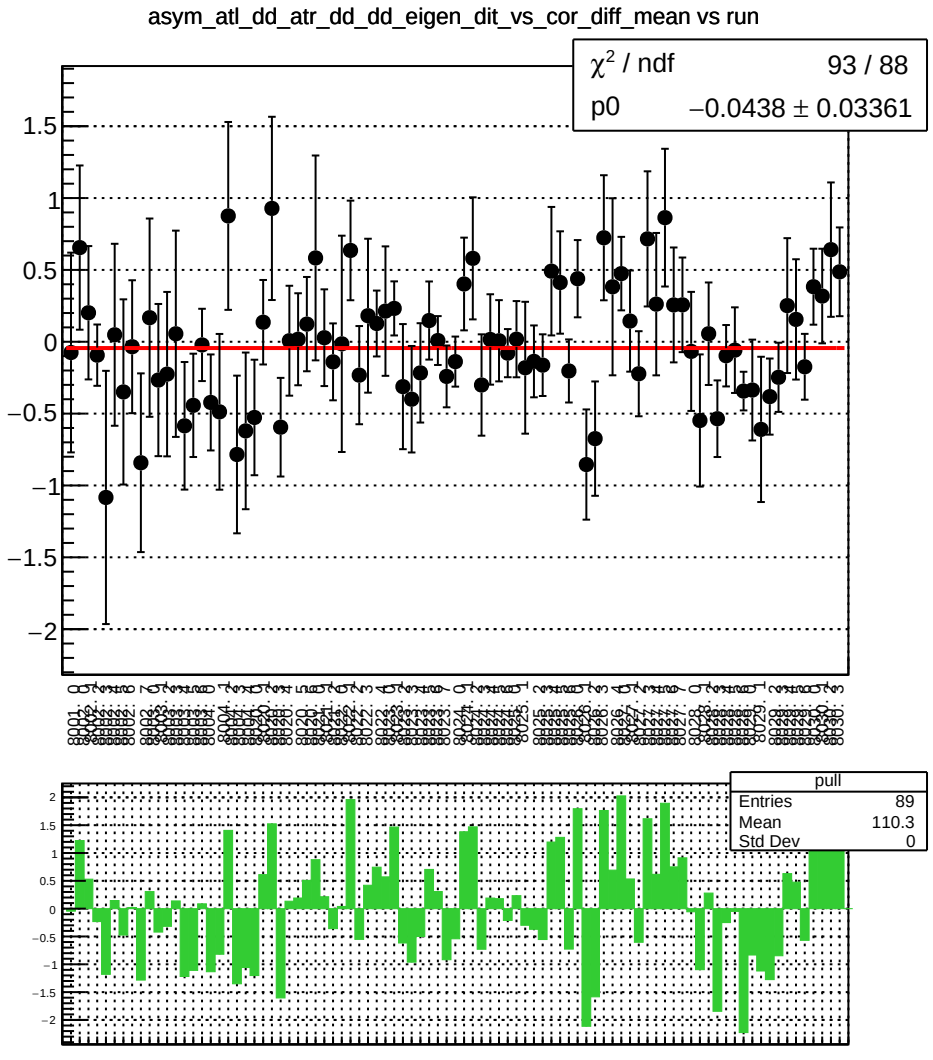

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93 / 88
p0 −0.0438 ± 0.03361
pull
Entries 89
Mean 110.3
Std Dev 0
pull1D
Entries 89
Mean 0.05277
Std Dev 1.021

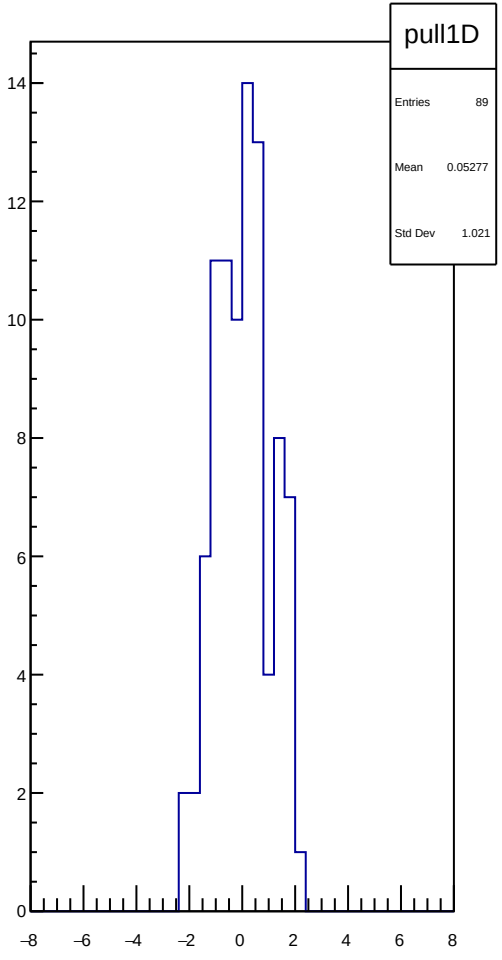

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.2e+05 / 88
p0 29.25 ± 0.02376
90
80
70
60
50
40
30
20
10

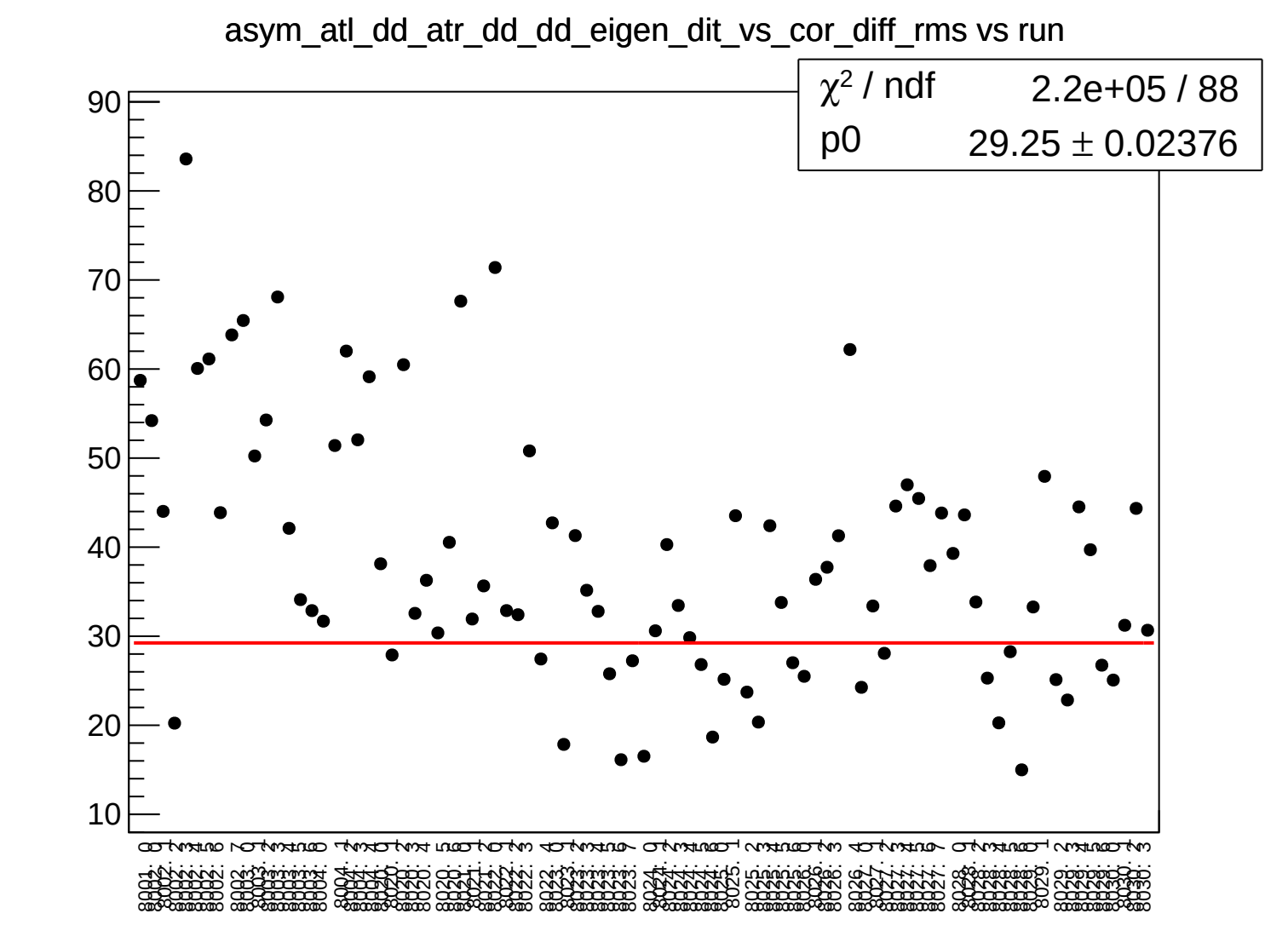

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.22 / 88
p0 1.005e−06 ± 2.83e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 89
Mean 105.3
Std Dev 0
2
1
0
−1
−2

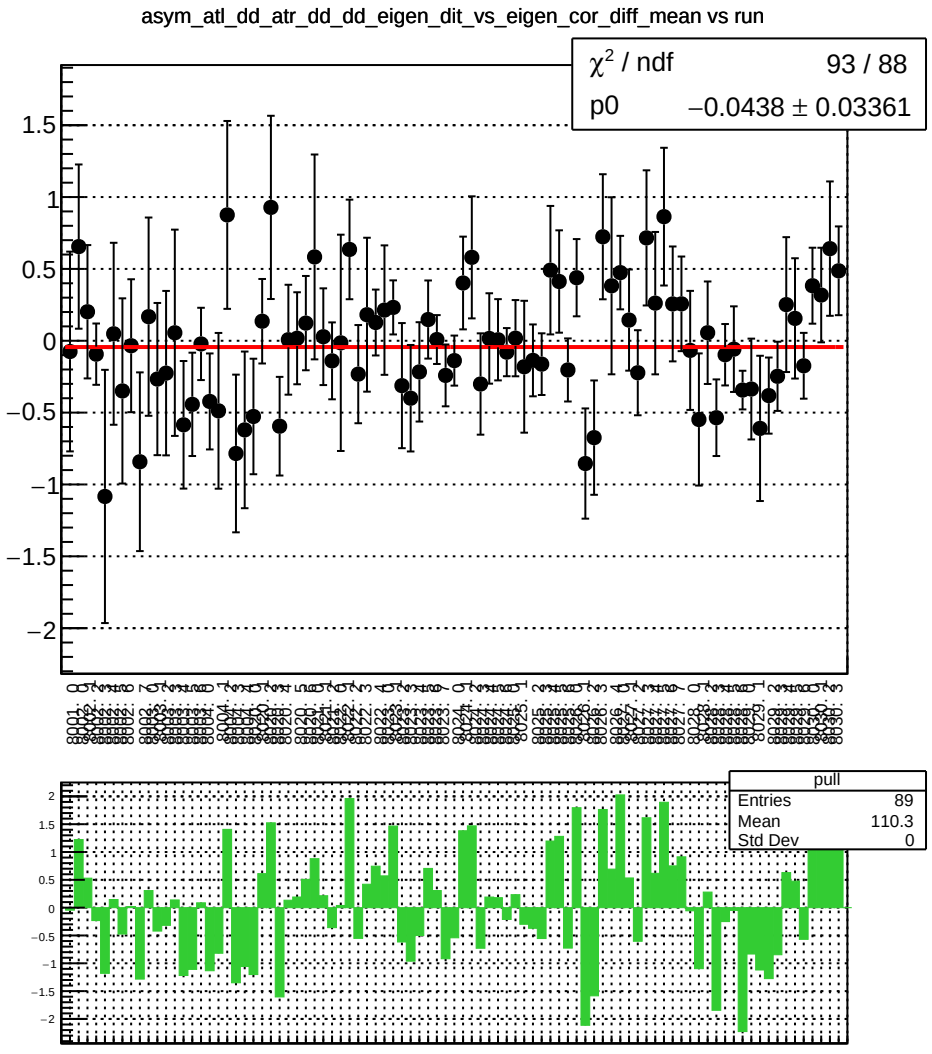

pull1D
Entries 89
Mean 0.02179
Std Dev 1.007
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

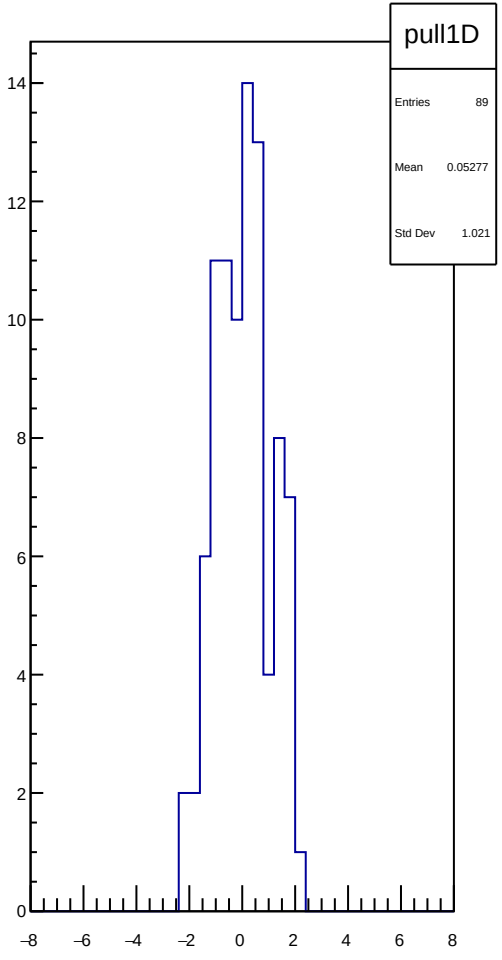

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.689e+04 / 88
p0 0.002623 ± 2.001e−06
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022

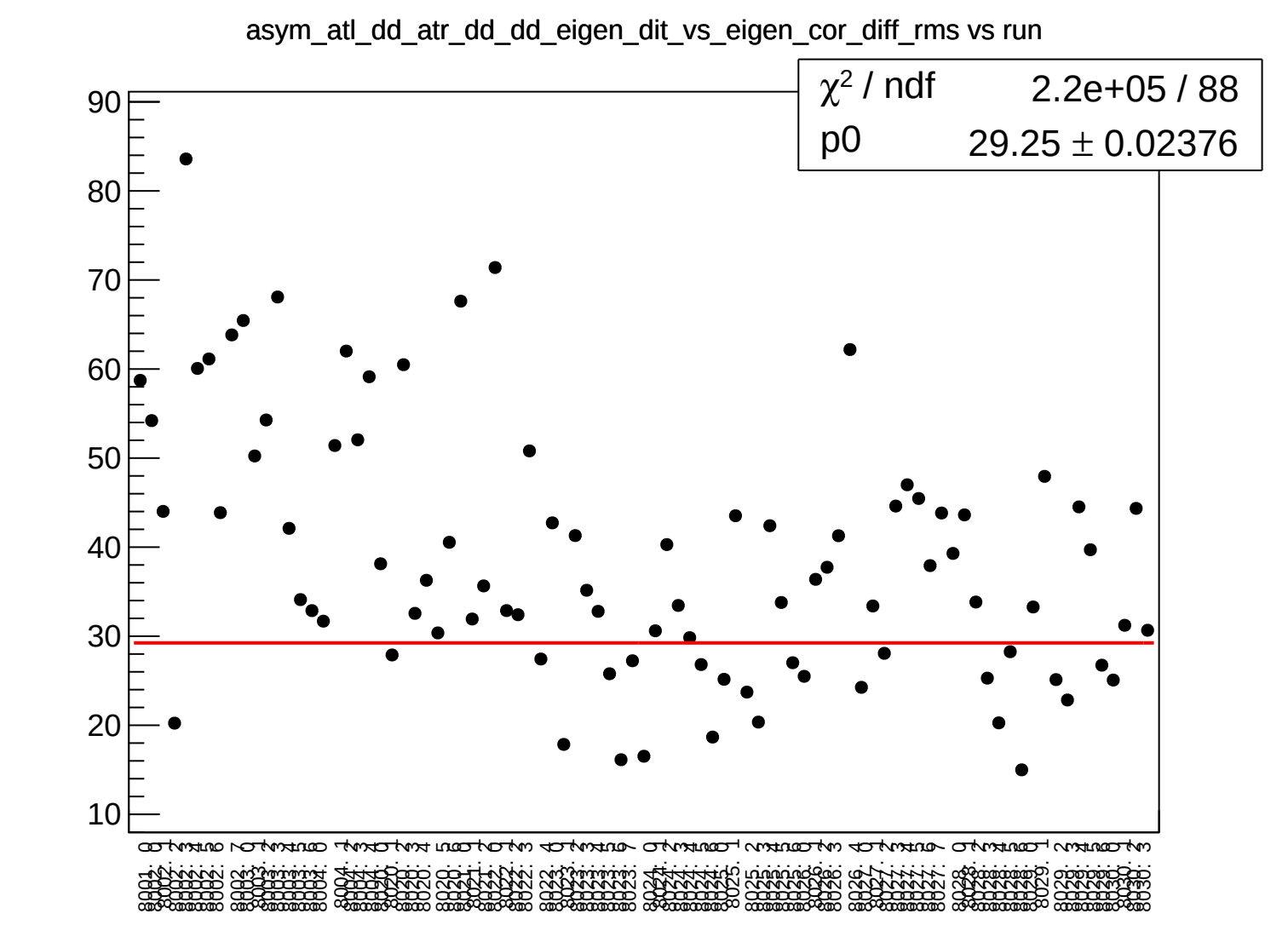

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93 / 88
p0 −0.0438 ± 0.03361
pull
Entries 89
Mean 110.3
Std Dev 0

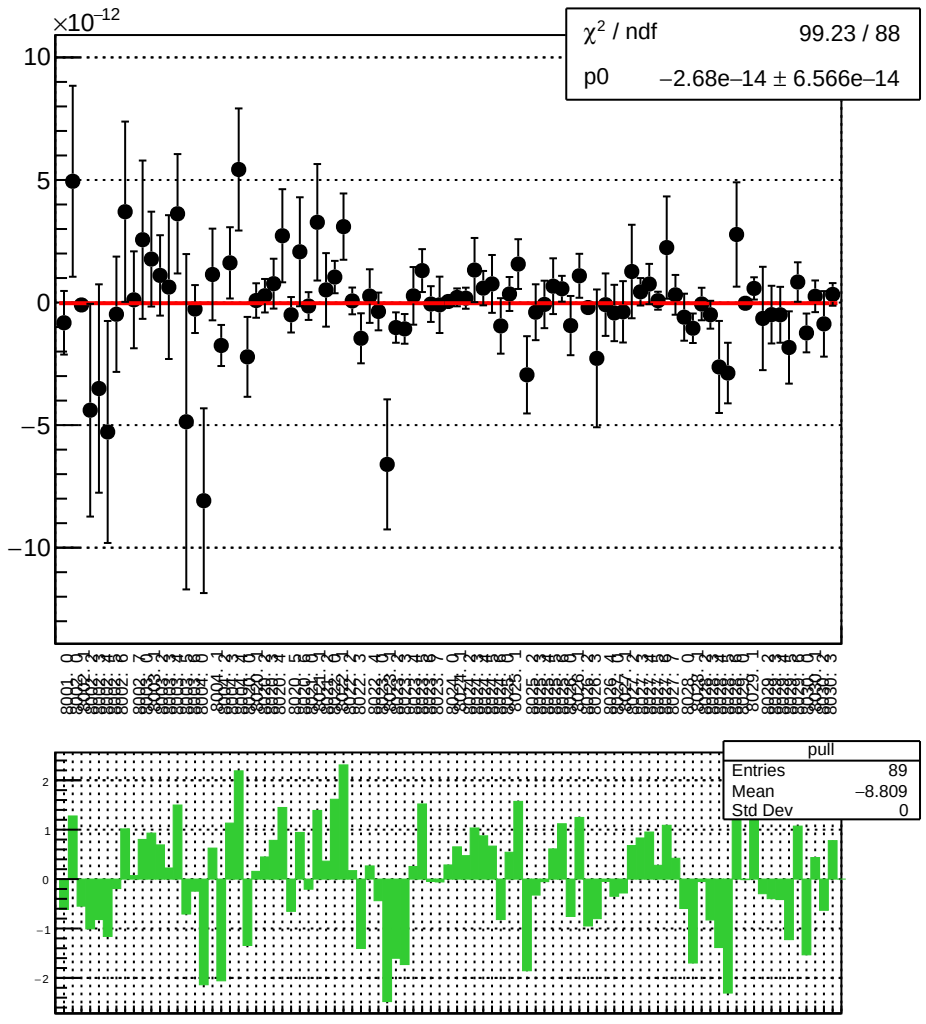

pull1D
Entries 89
Mean 0.05277
Std Dev 1.021

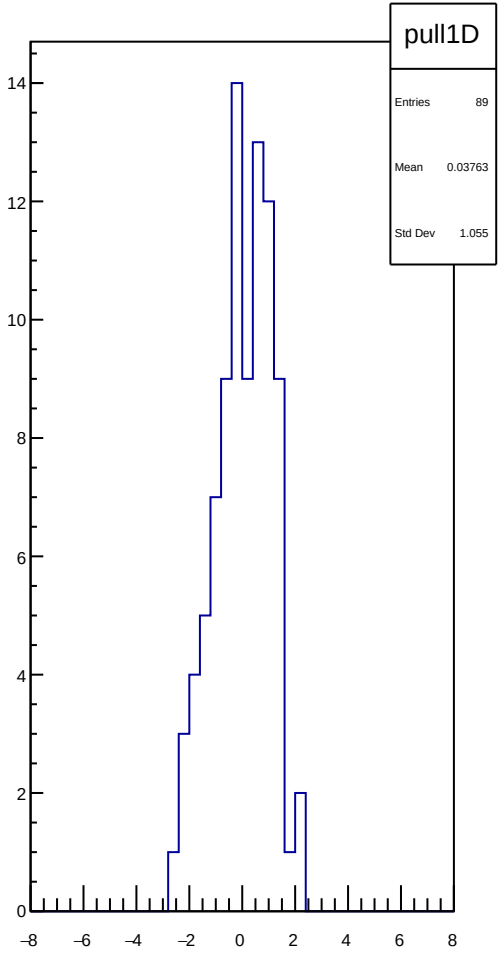

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.2e+05 / 88
p0 29.25 ± 0.02376
90
80
70
60
50
40
30
20
10

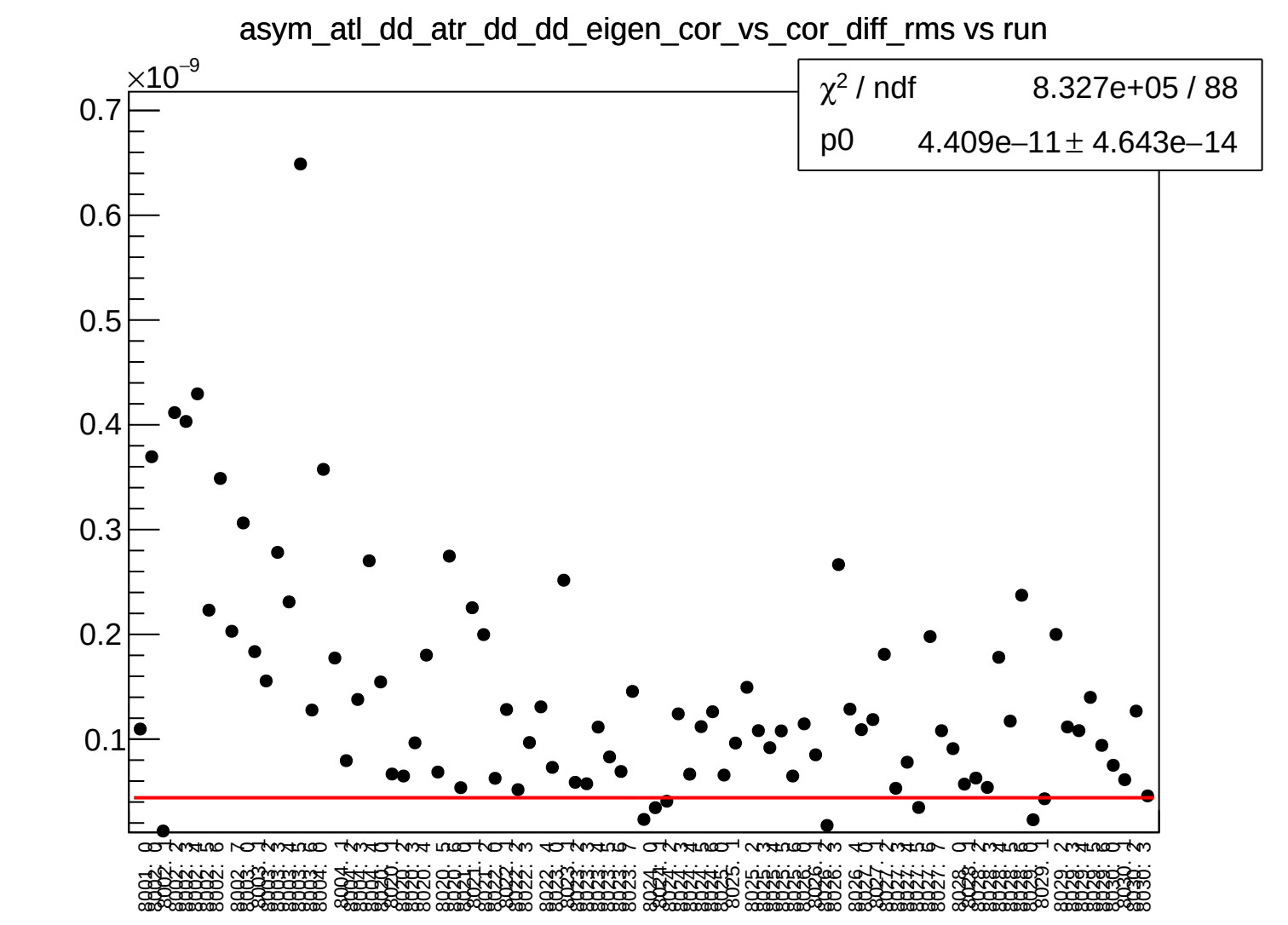

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93 / 88
p0 −0.0438 ± 0.03361
pull
Entries 89
Mean 110.3
Std Dev 0

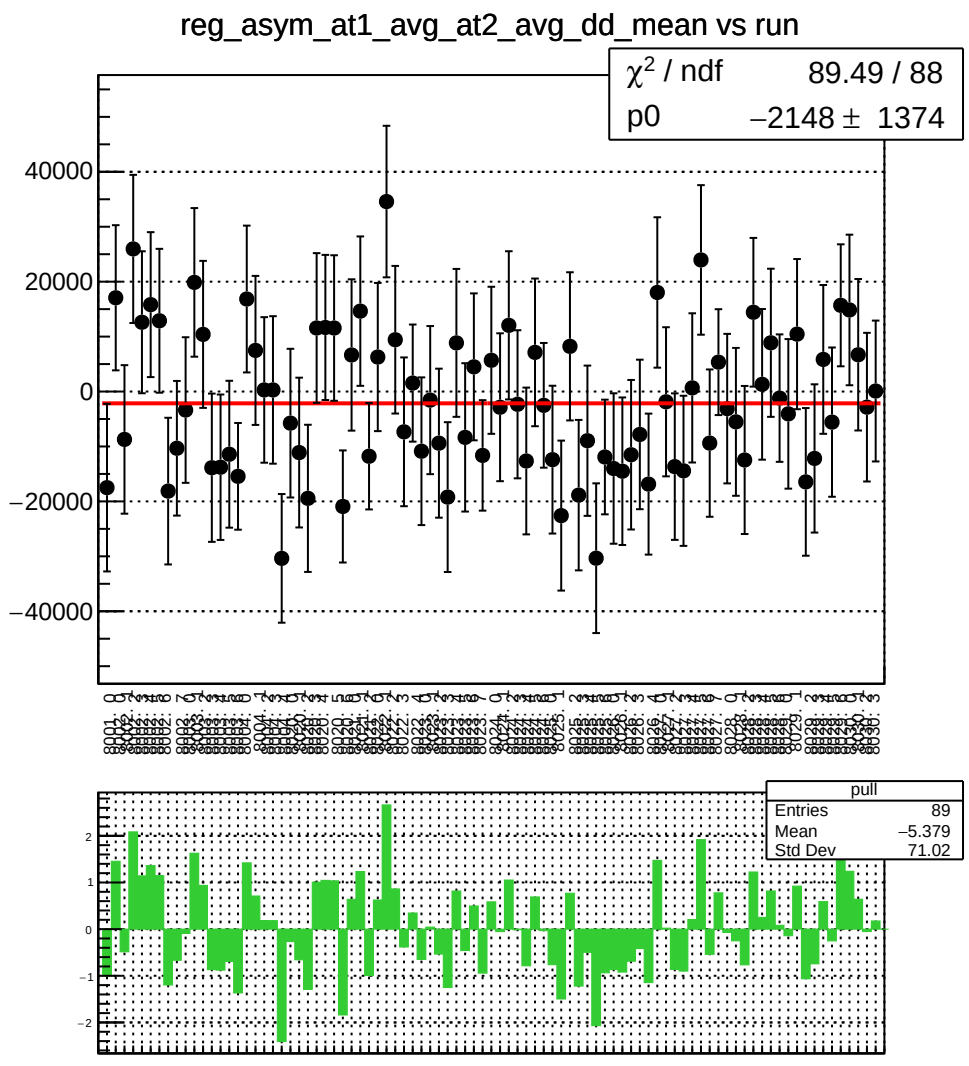

pull1D
Entries 89
Mean 0.05277
Std Dev 1.021

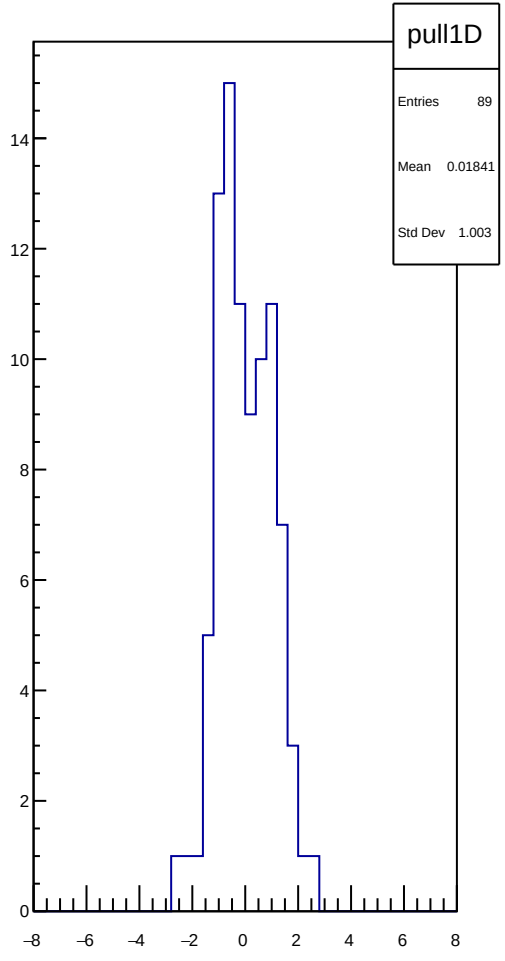

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.2e+05 / 88
p0 29.25 ± 0.02376
90
80
70
60
50
40
30
20
10

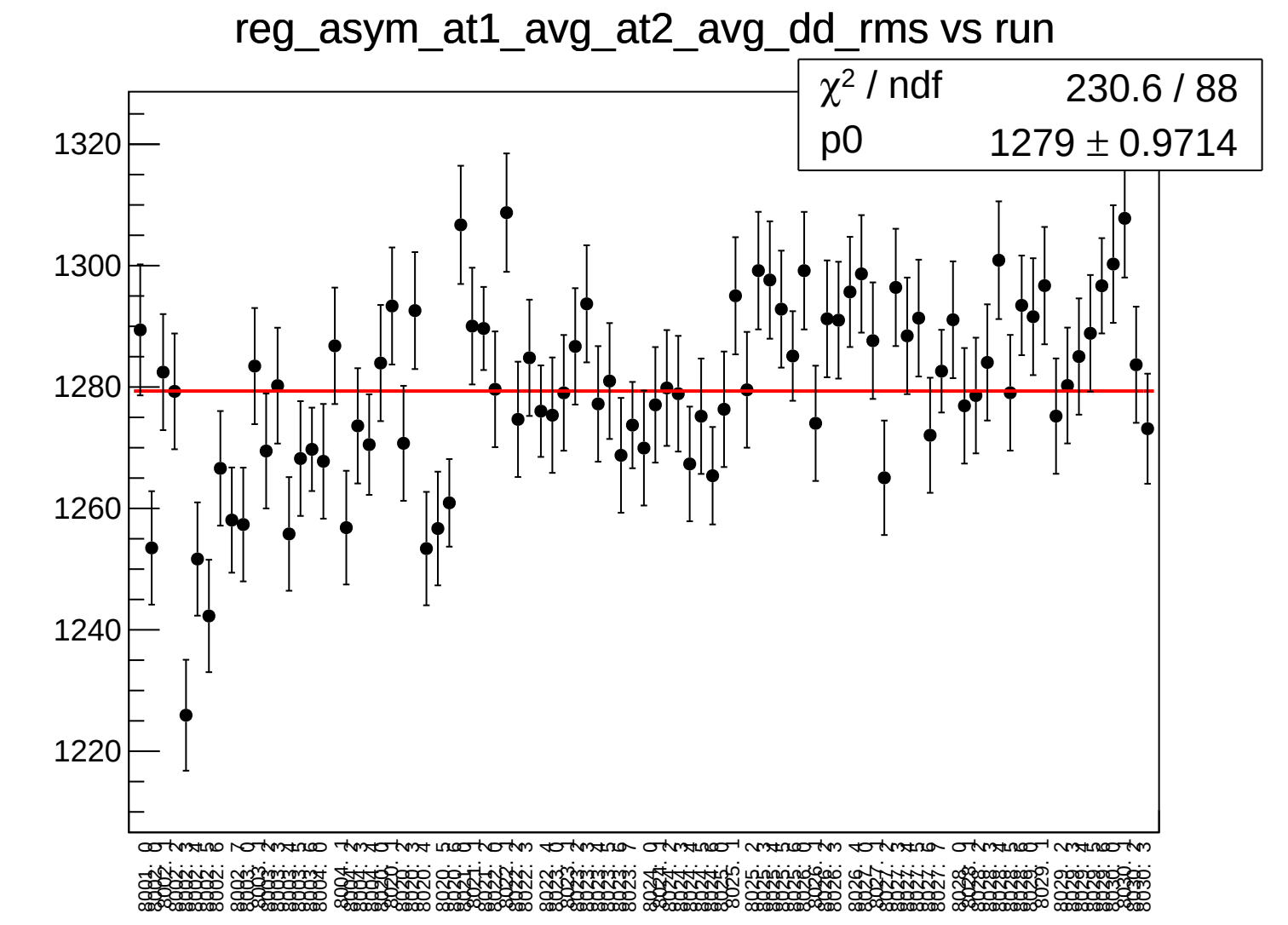

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.23 / 88
p0 −2.68e−14 ± 6.566e−14
pull
Entries 89
Mean −8.809
Std Dev 0

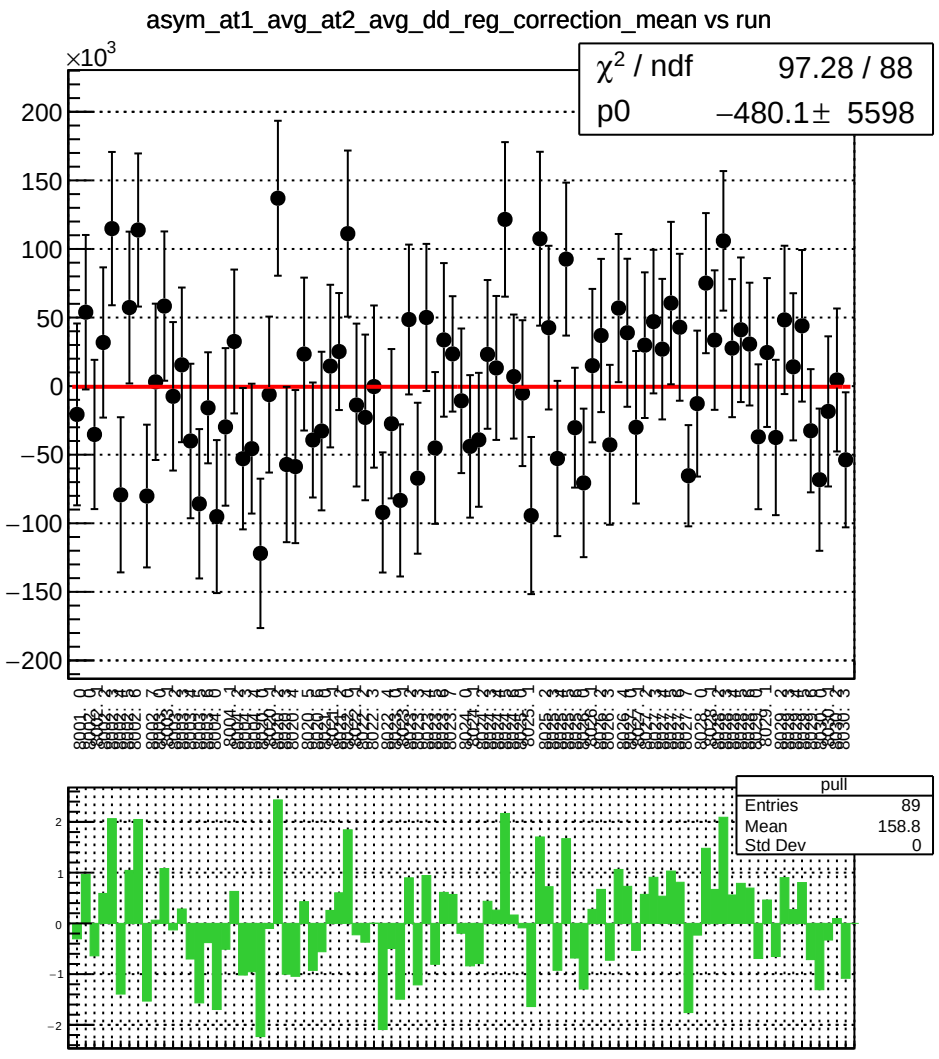

pull1D
Entries 89
Mean 0.03763
Std Dev 1.055

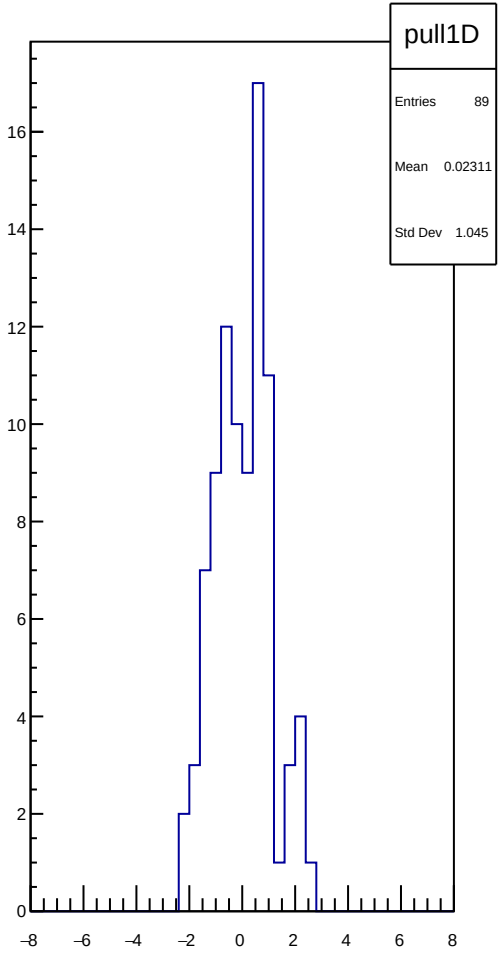

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.327e+05 / 88
p0 4.409e−11 ± 4.643e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

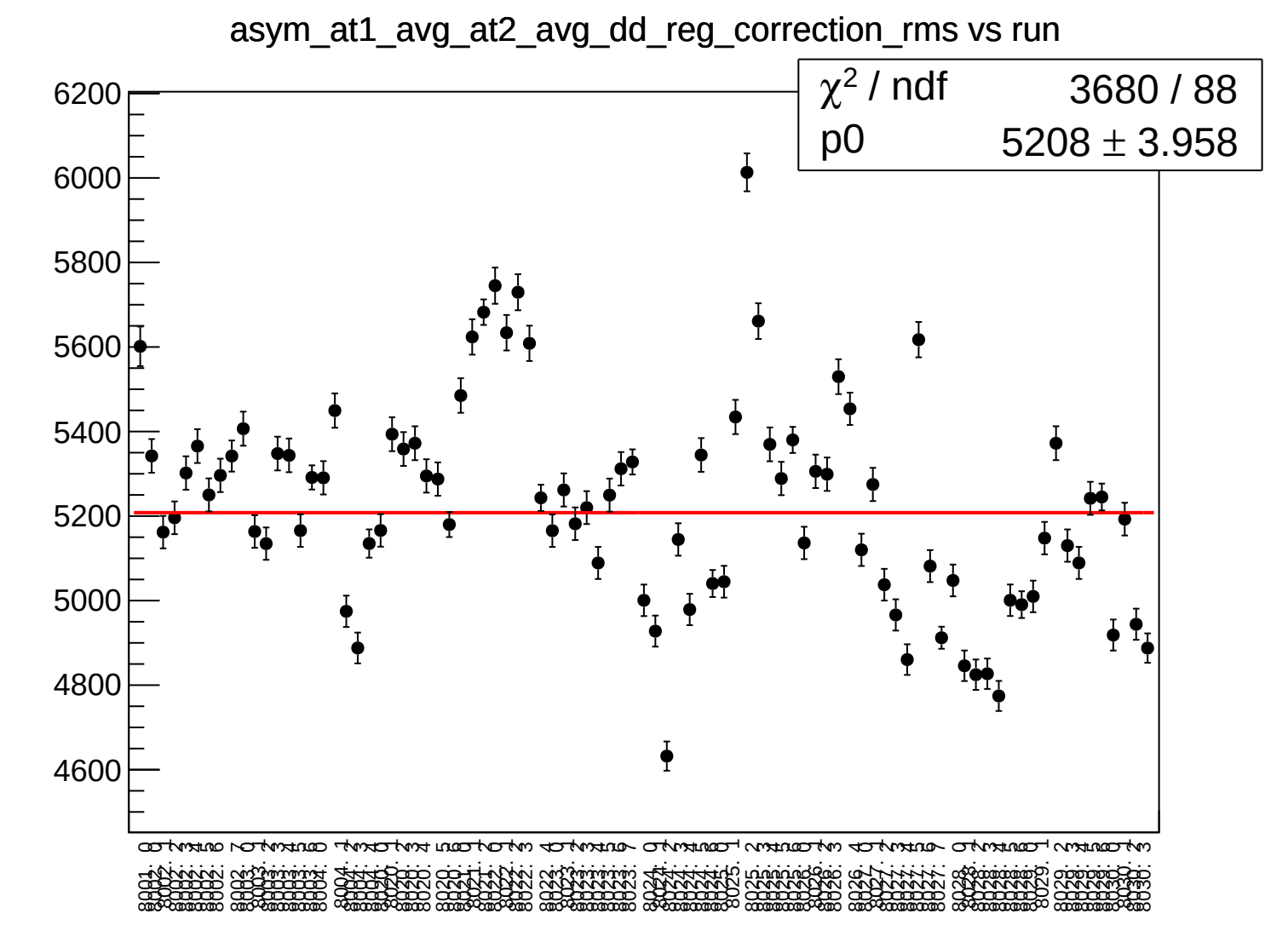

reg_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 89.49 / 88
p0 −2148 ± 1374
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −5.379
Std Dev 71.02
2
1
0
−1
−2

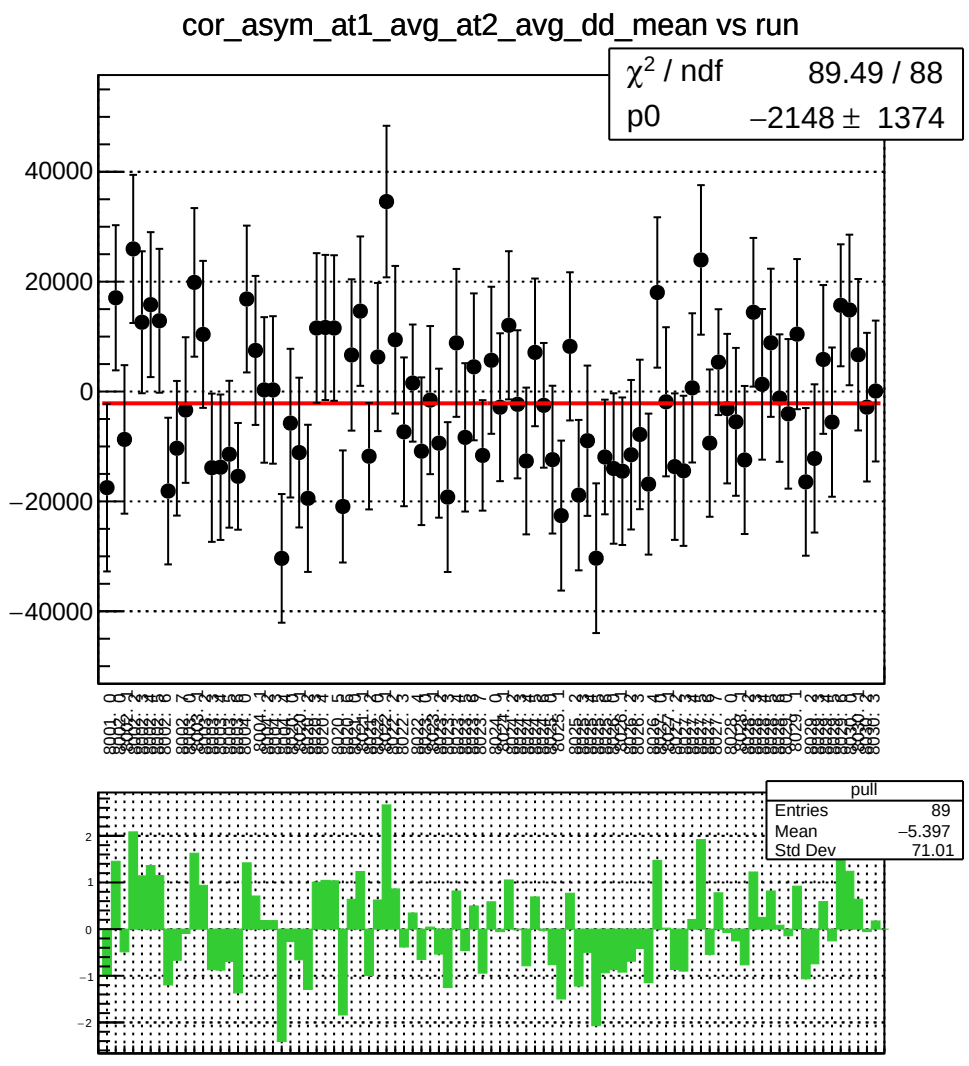

pull1D
Entries 89
Mean 0.01841
Std Dev 1.003
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

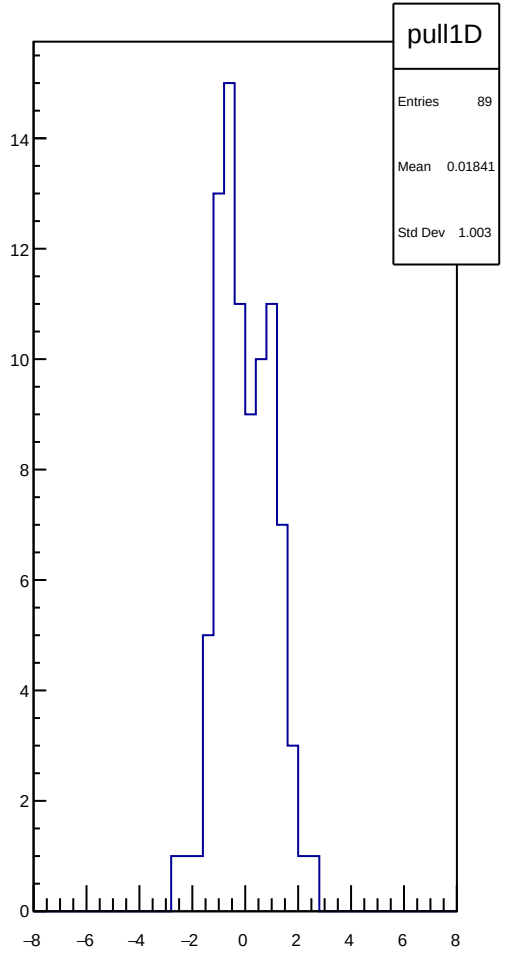

reg_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 230.6 / 88
p0 1279 ± 0.9714
1320
1300
1280
1260
1240
1220

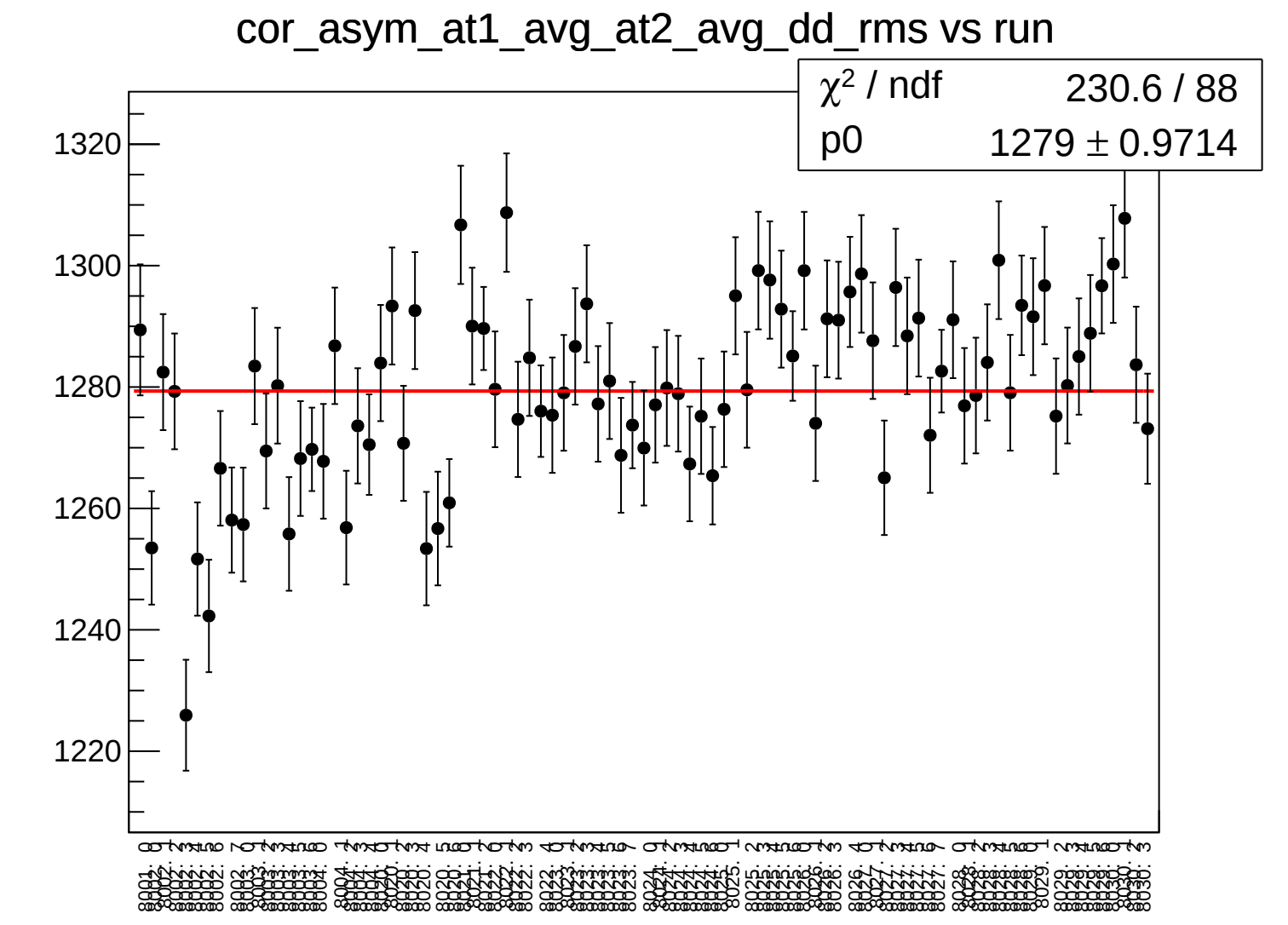

asym_at1_avg_at2_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 97.28 / 88
p0 −480.1± 5598
pull
Entries 89
Mean 158.8
Std Dev 0

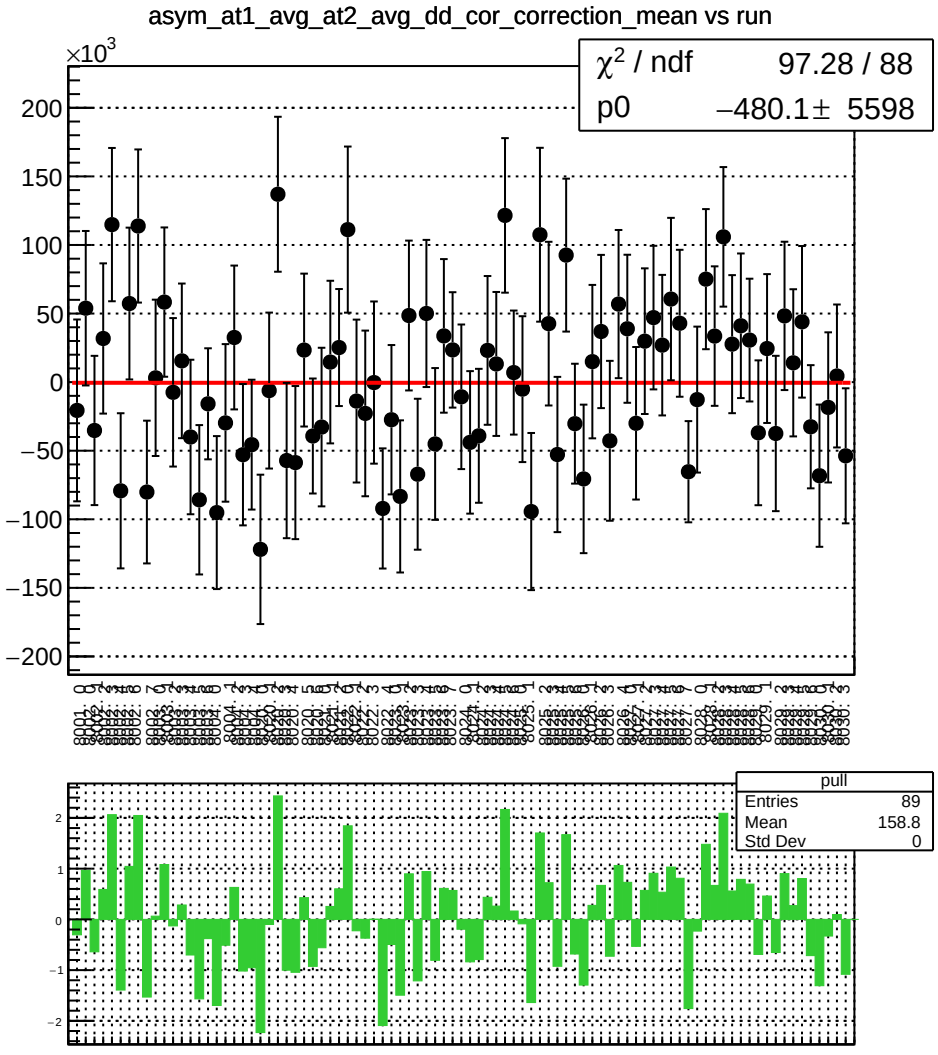

pull1D
Entries 89
Mean 0.02311
Std Dev 1.045

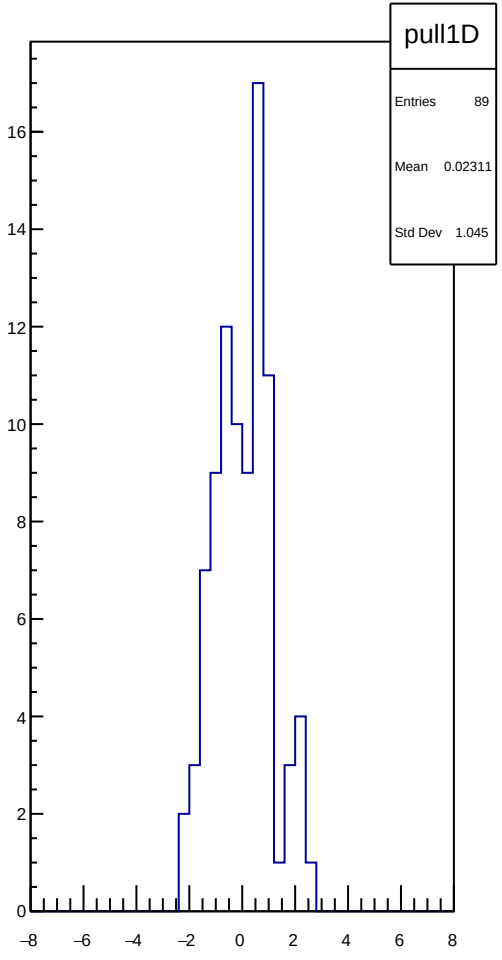

asym_at1_avg_at2_avg_dd_reg_correction_rms vs run
χ² / ndf 3680 / 88
p0 5208 ± 3.958
6200
6000
5800
5600
5400
5200
5000
4800
4600

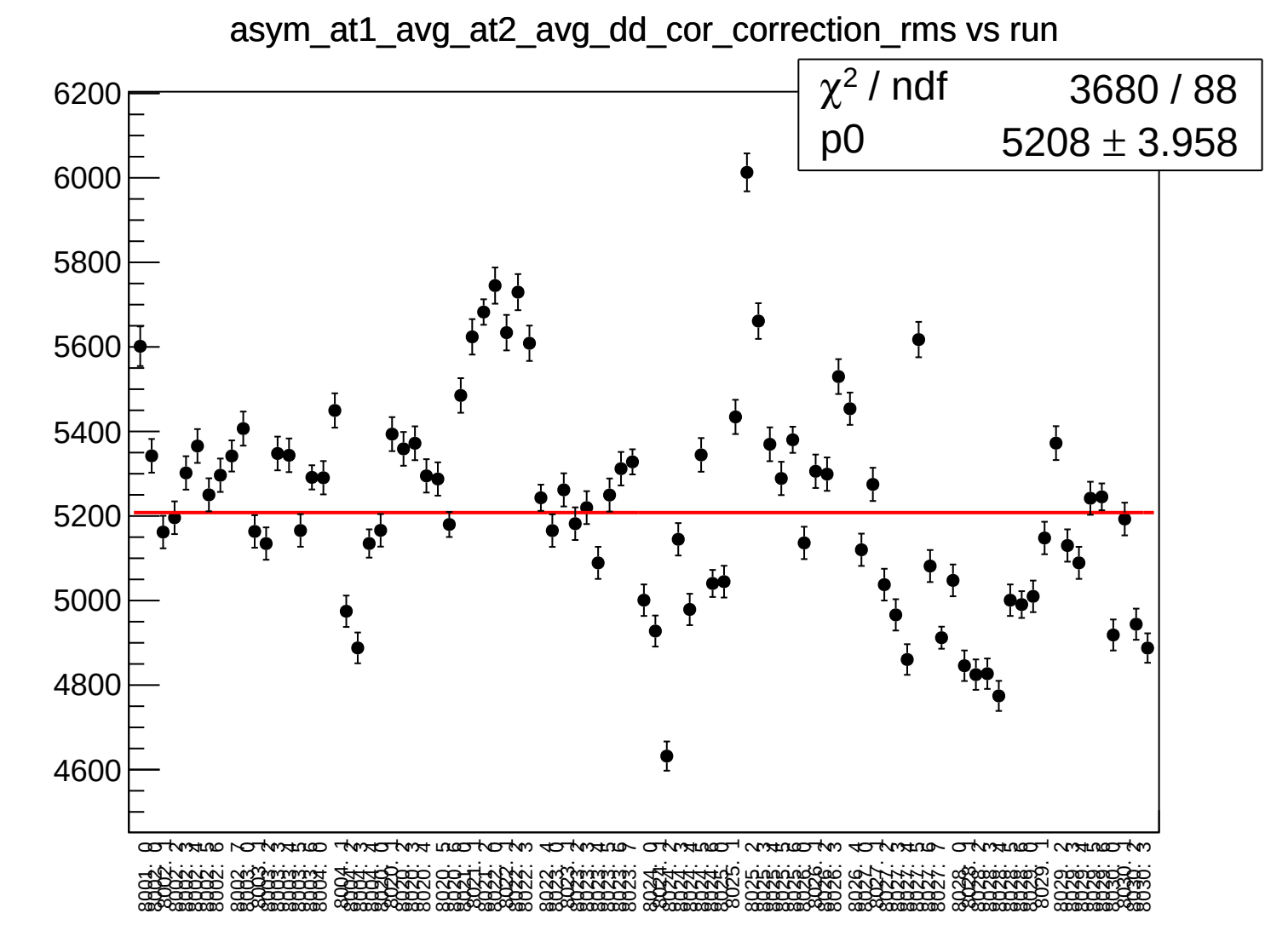

cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 89.49 / 88
p0 −2148 ± 1374
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −5.397
Std Dev 71.01
2
1
0
−1
−2

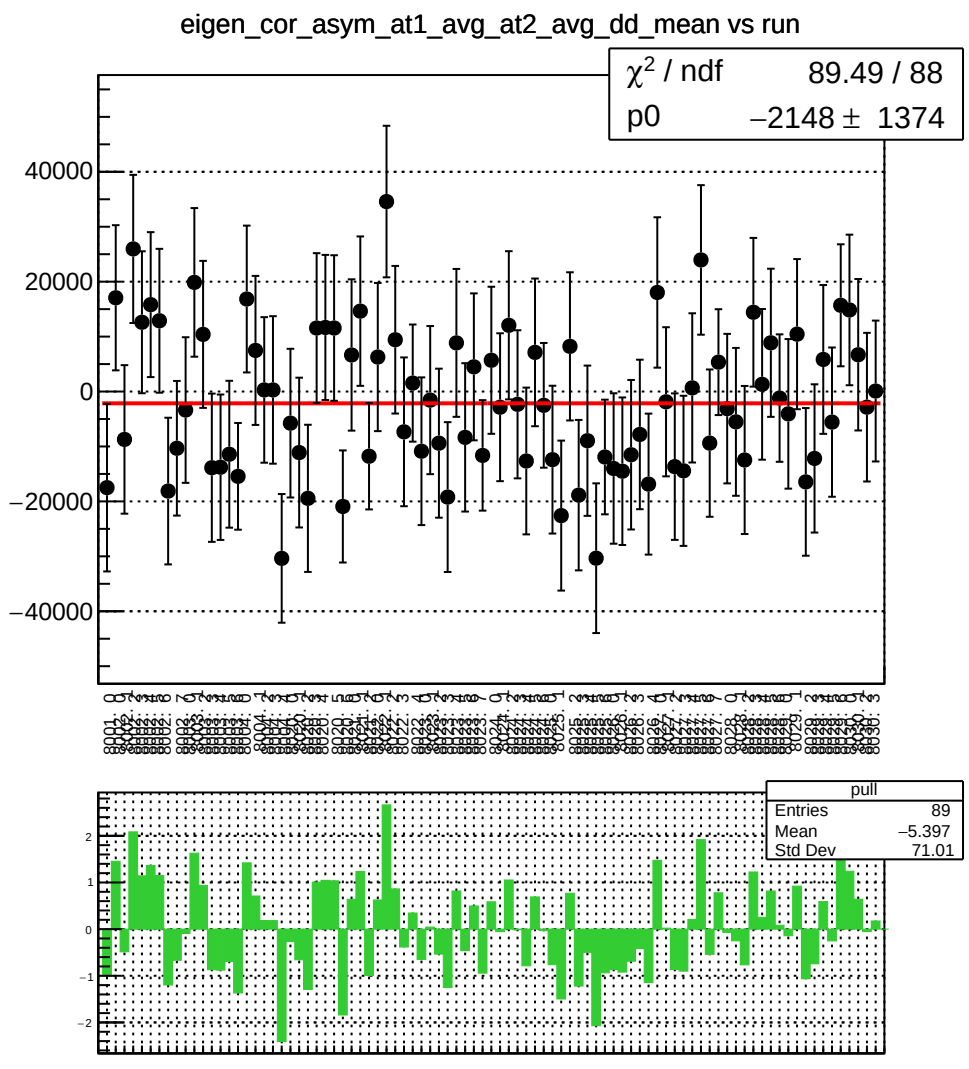

pull1D
Entries 89
Mean 0.01841
Std Dev 1.003
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

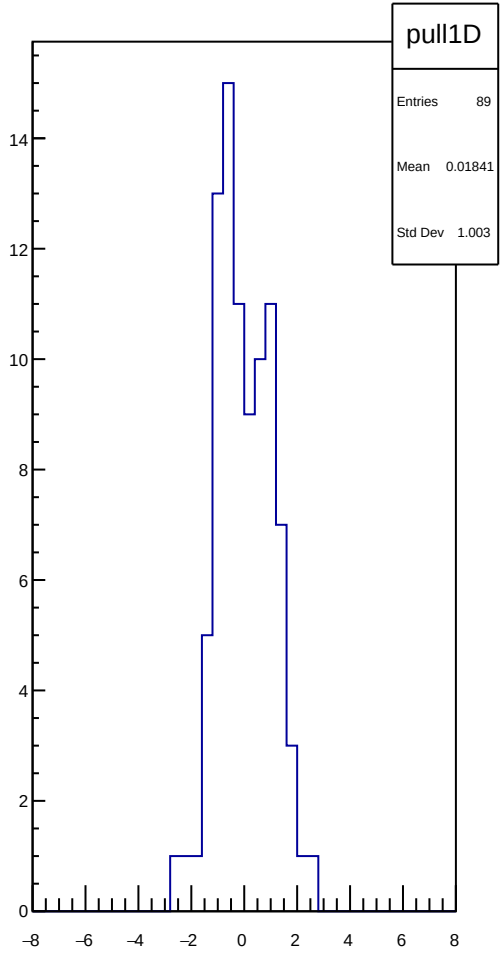

cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 230.6 / 88
p0 1279 ± 0.9714
1320
1300
1280
1260
1240
1220

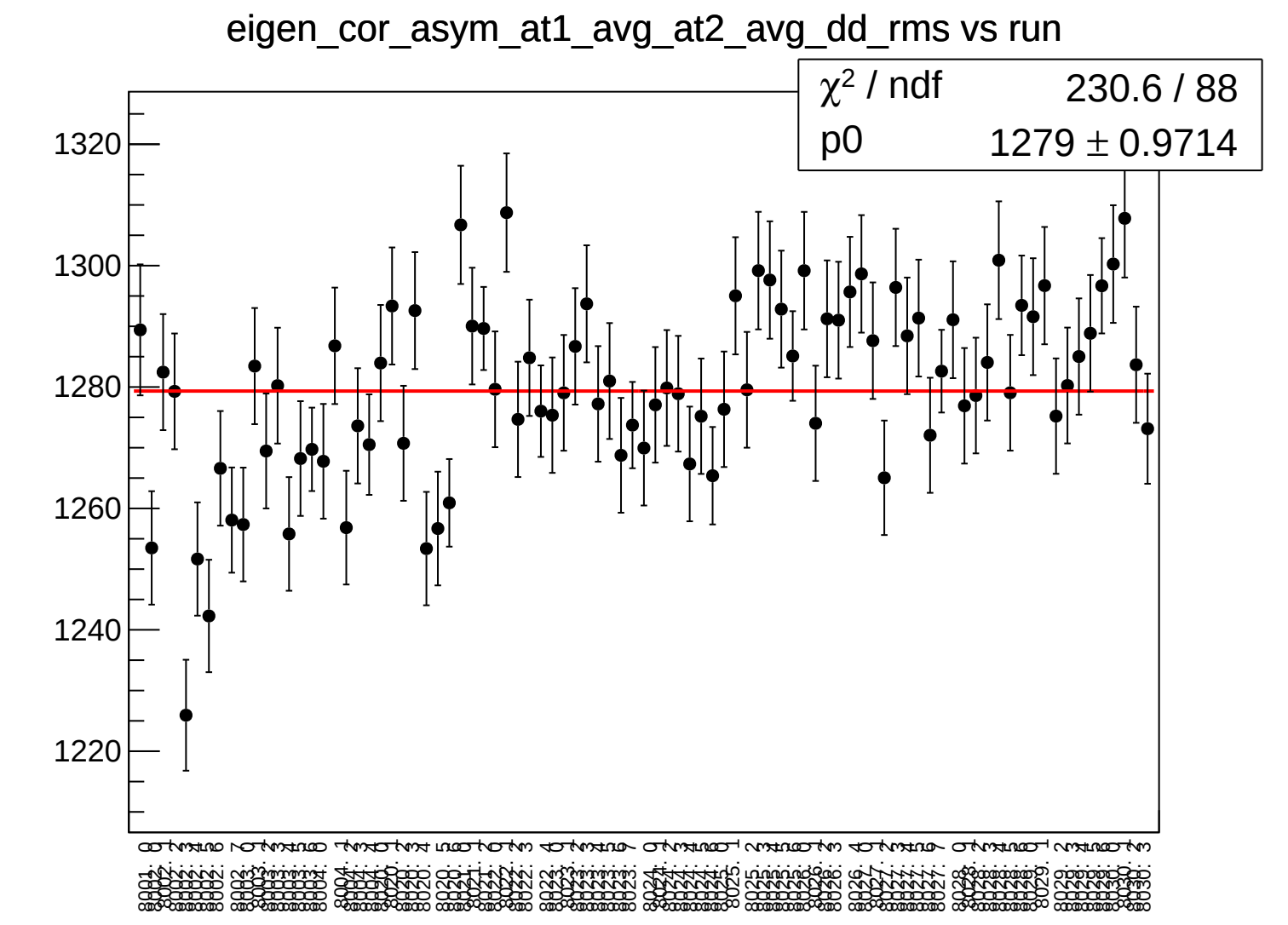

asym_at1_avg_at2_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 97.28 / 88
p0 −480.1± 5598
pull
Entries 89
Mean 158.8
Std Dev 0

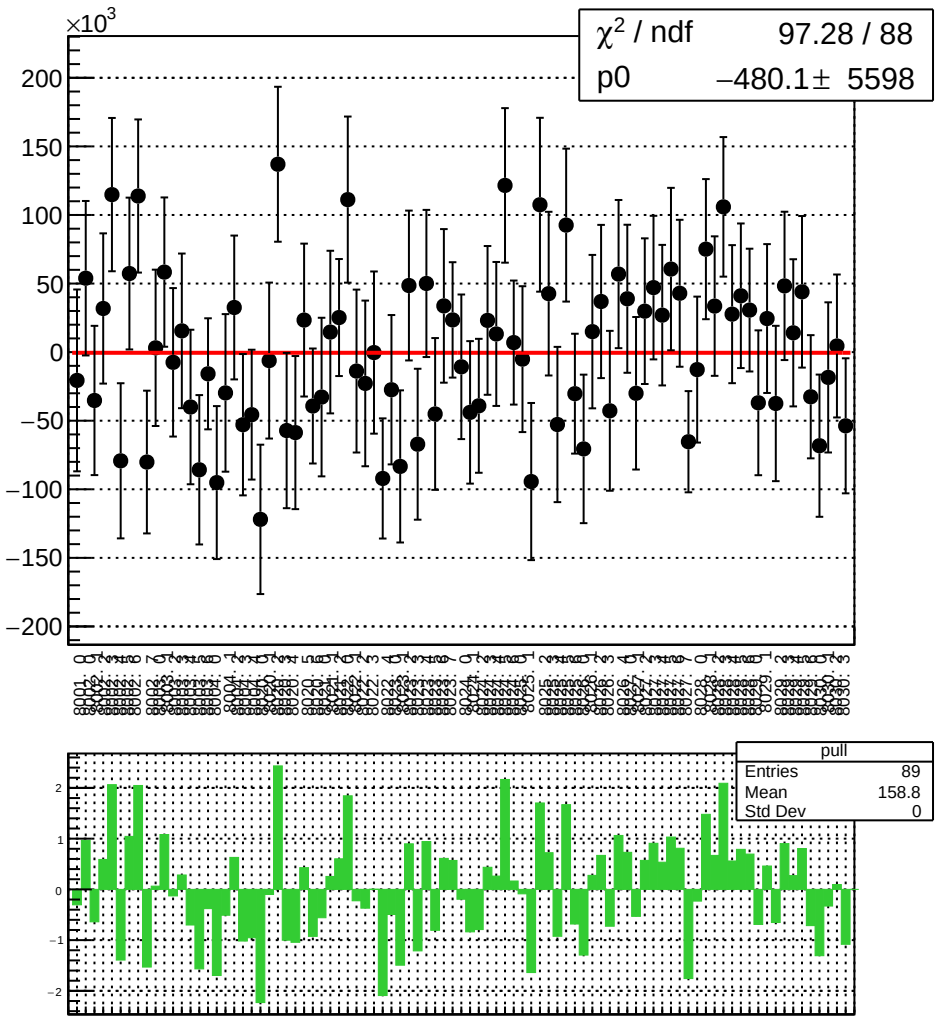

pull1D
Entries 89
Mean 0.02311
Std Dev 1.045

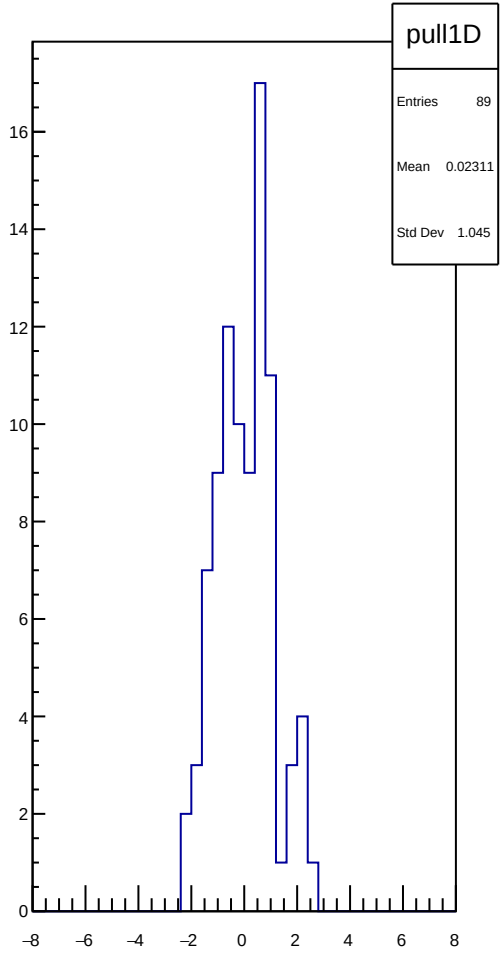

asym_at1_avg_at2_avg_dd_cor_correction_rms vs run
χ² / ndf 3680 / 88
p0 5208 ± 3.958
6200
6000
5800
5600
5400
5200
5000
4800
4600

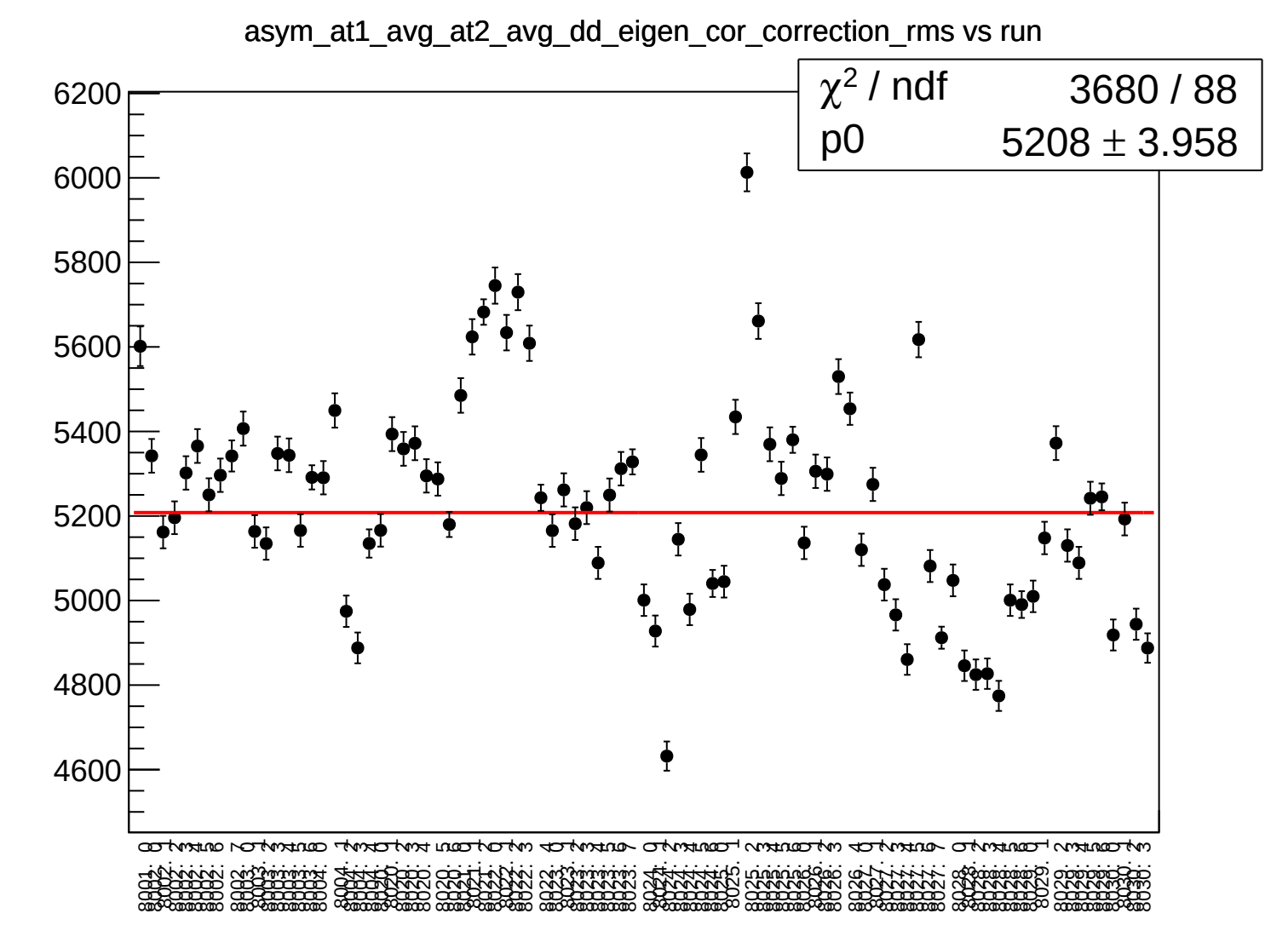

eigen_cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 89.49 / 88
p0 −2148 ± 1374
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −5.397
Std Dev 71.01
2
1
0
−1
−2

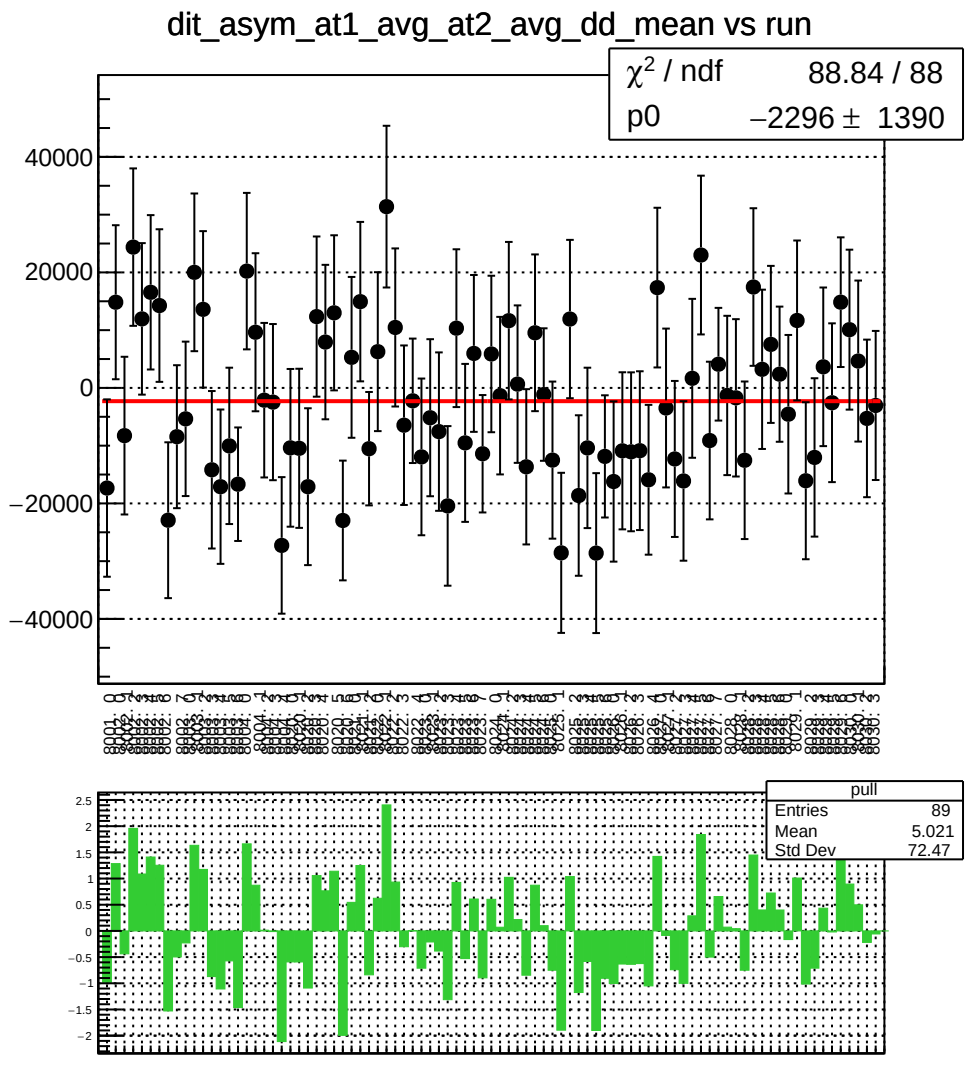

pull1D
Entries 89
Mean 0.01841
Std Dev 1.003
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

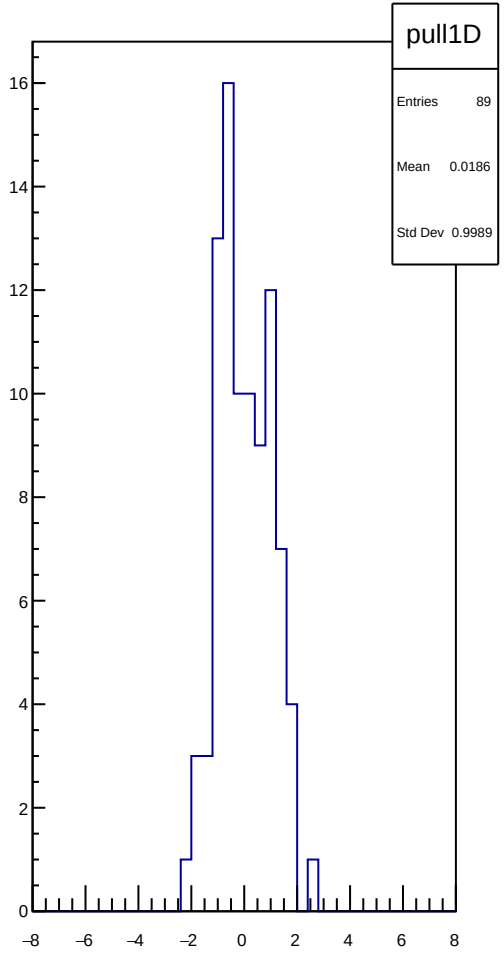

eigen_cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 230.6 / 88
p0 1279 ± 0.9714
1320
1300
1280
1260
1240
1220

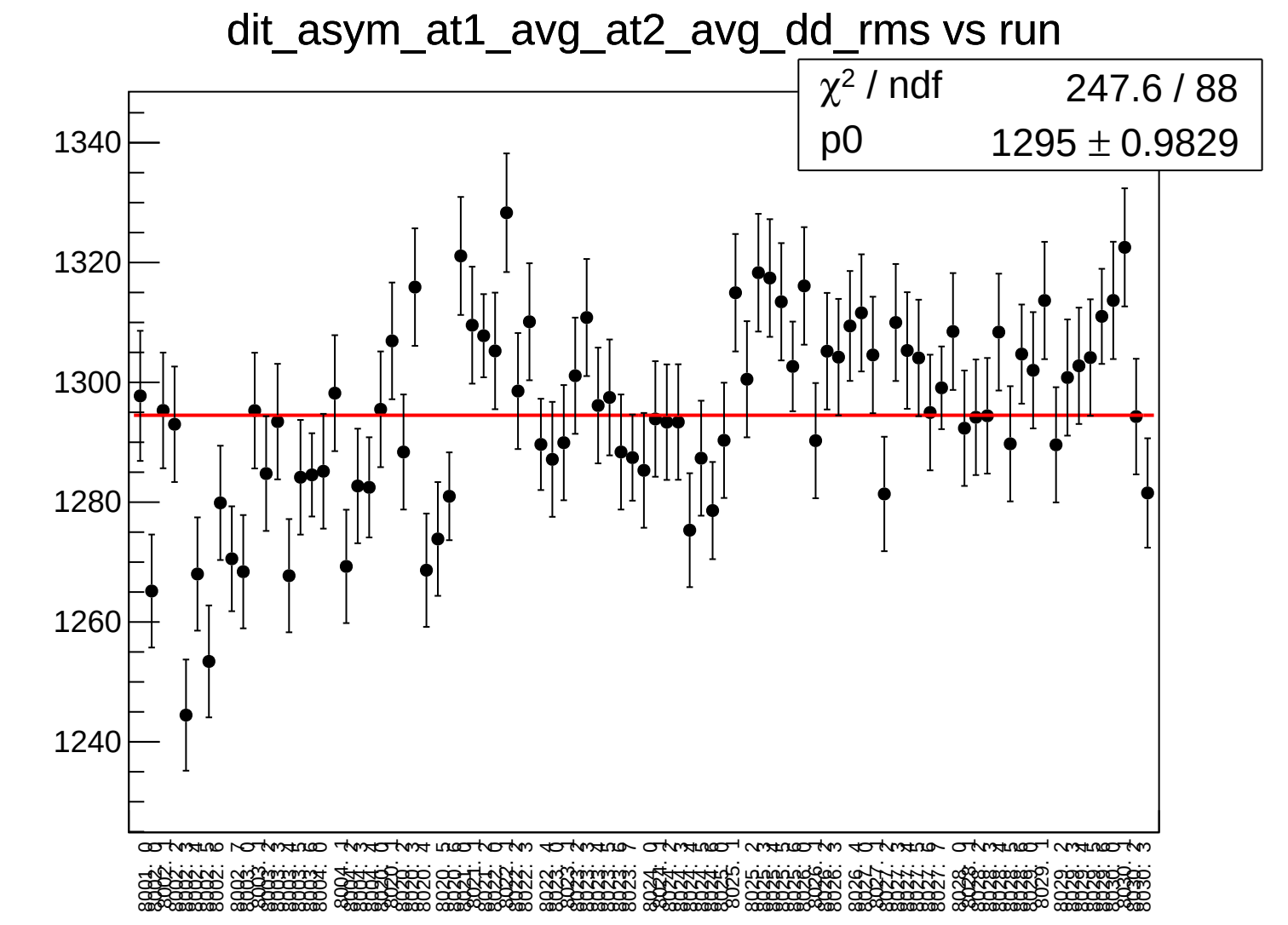

asym_at1_avg_at2_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 97.28 / 88
p0 −480.1± 5598
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean 158.8
Std Dev 0
2
1
0
−1
−2

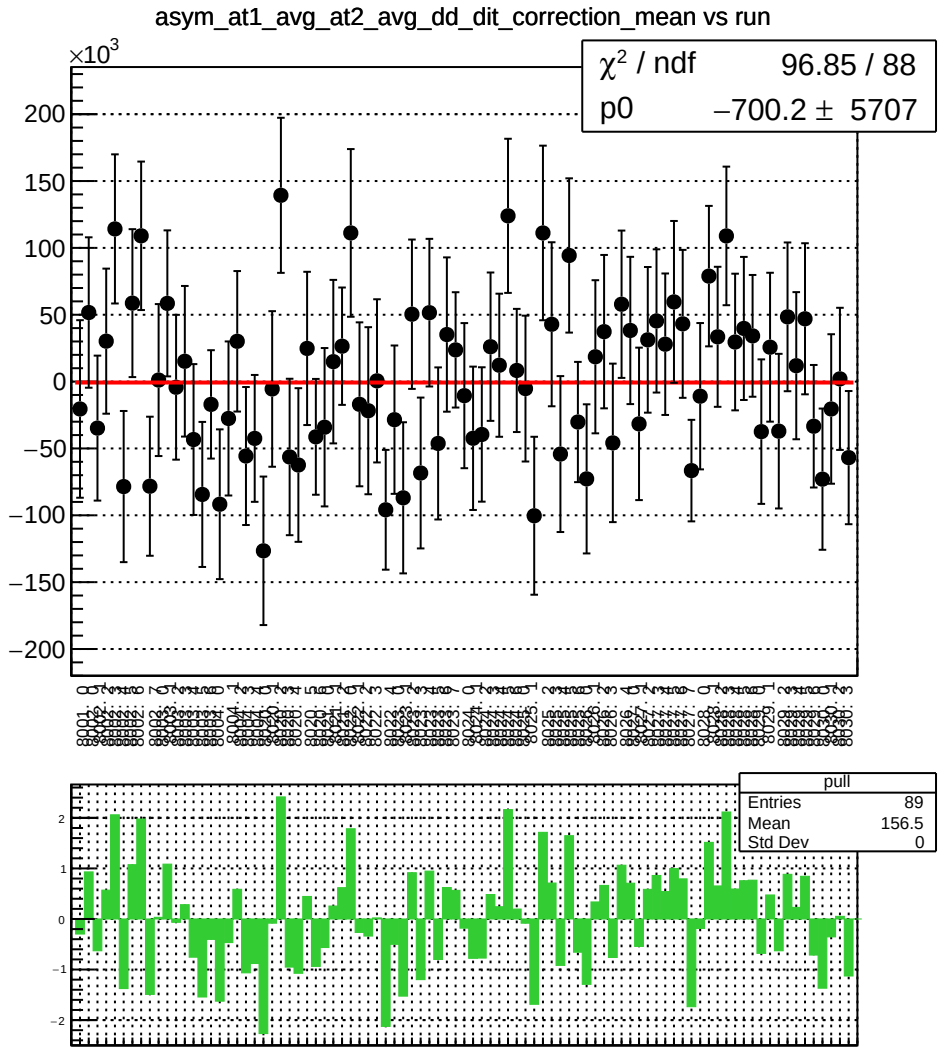

pull1D
Entries 89
Mean 0.02311
Std Dev 1.045
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

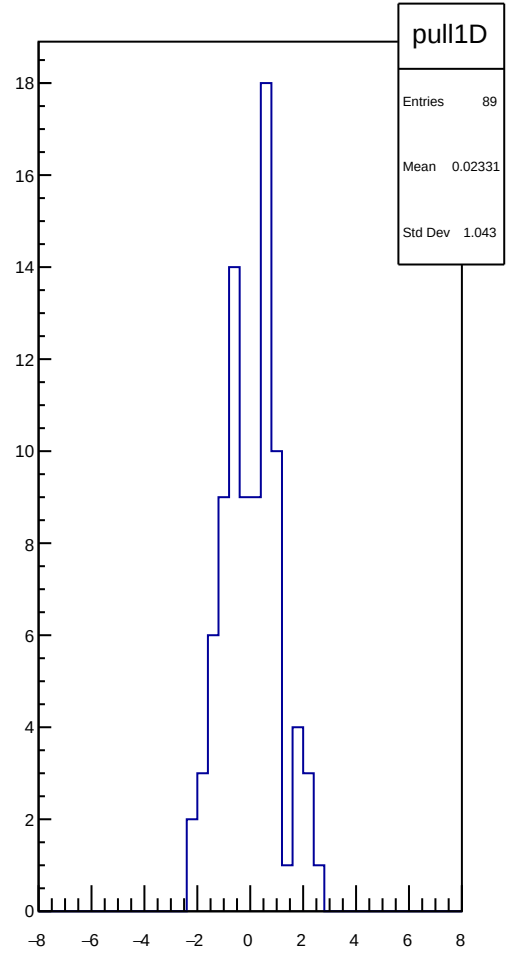

asym_at1_avg_at2_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 3680 / 88
p0 5208 ± 3.958
6200
6000
5800
5600
5400
5200
5000
4800
4600

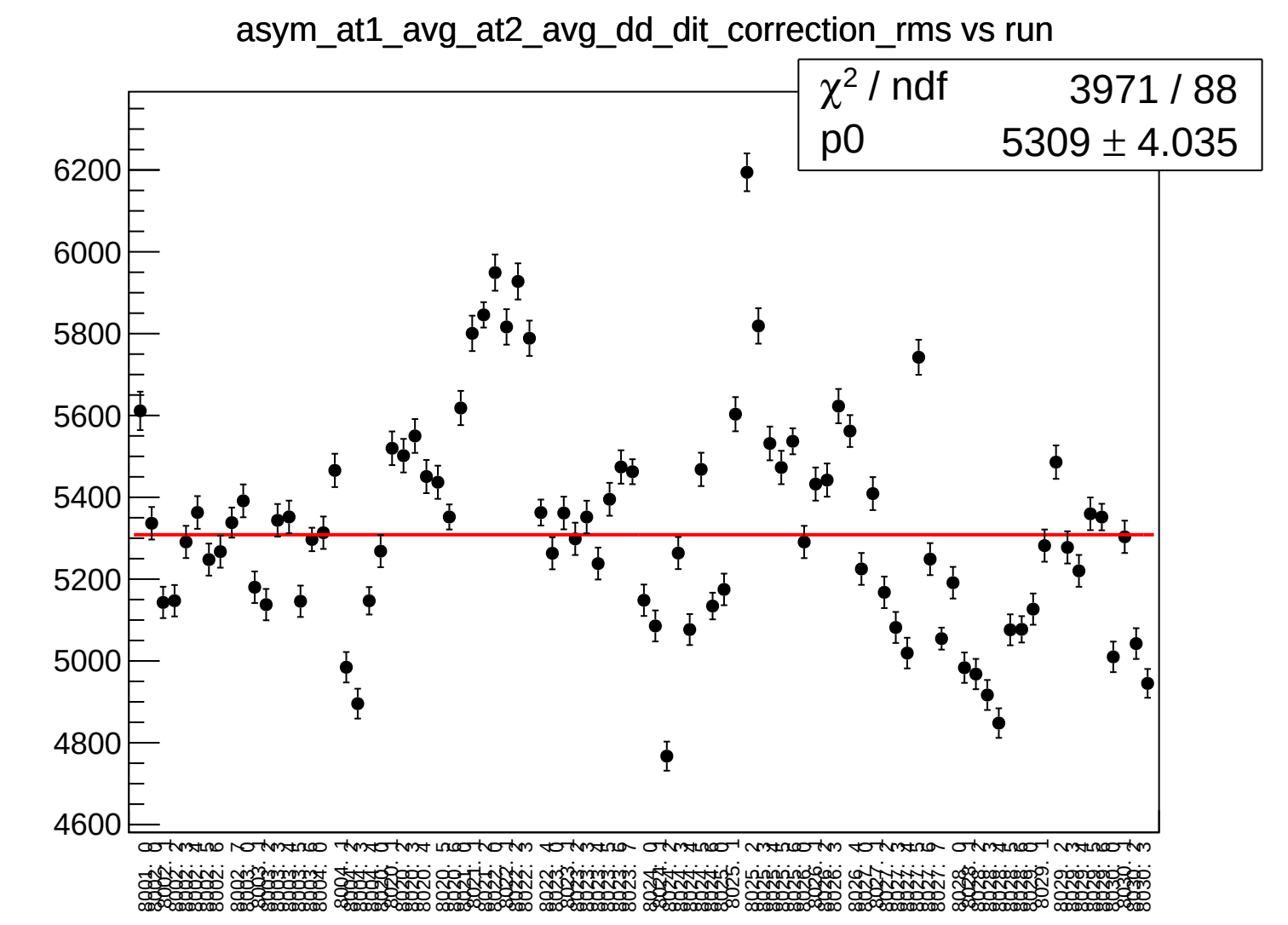

dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 88.84 / 88
p0 −2296 ± 1390
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 5.021
Std Dev 72.47
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

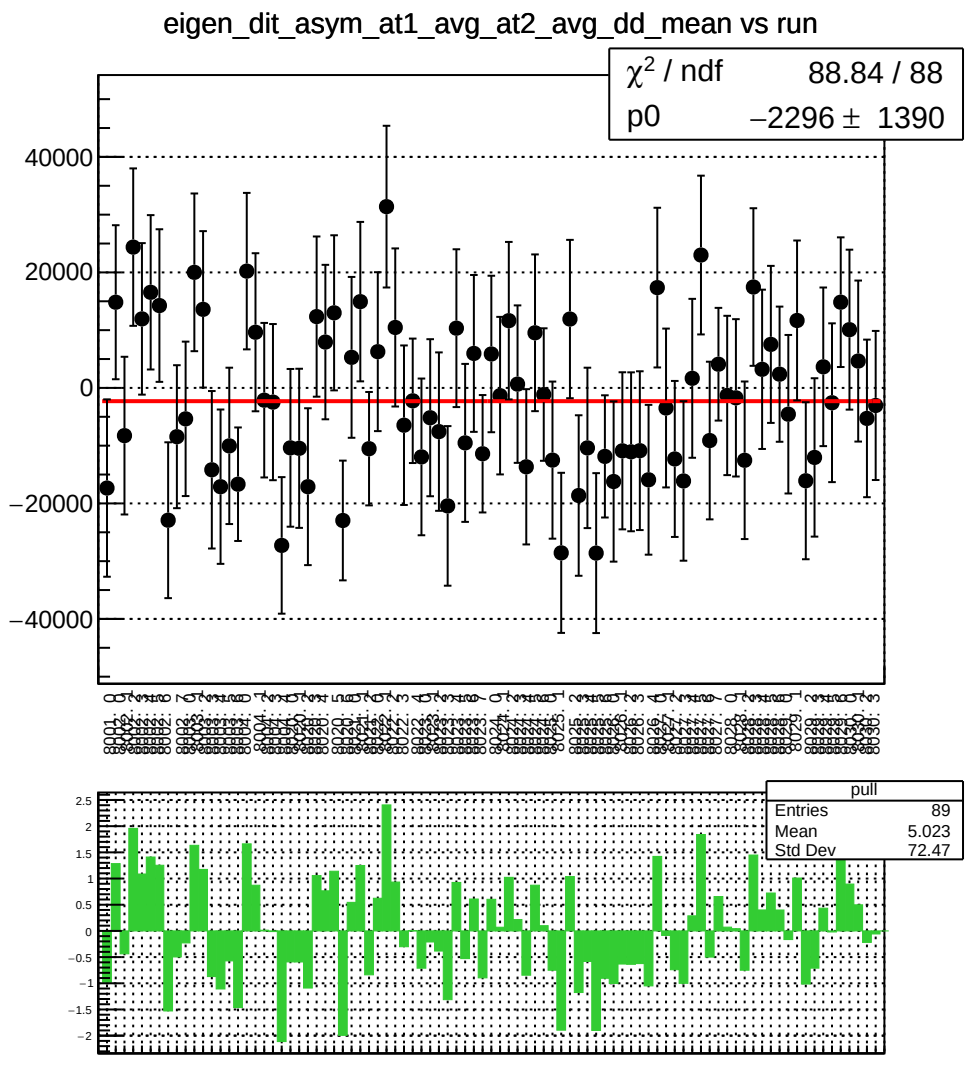

pull1D
Entries 89
Mean 0.0186
Std Dev 0.9989
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

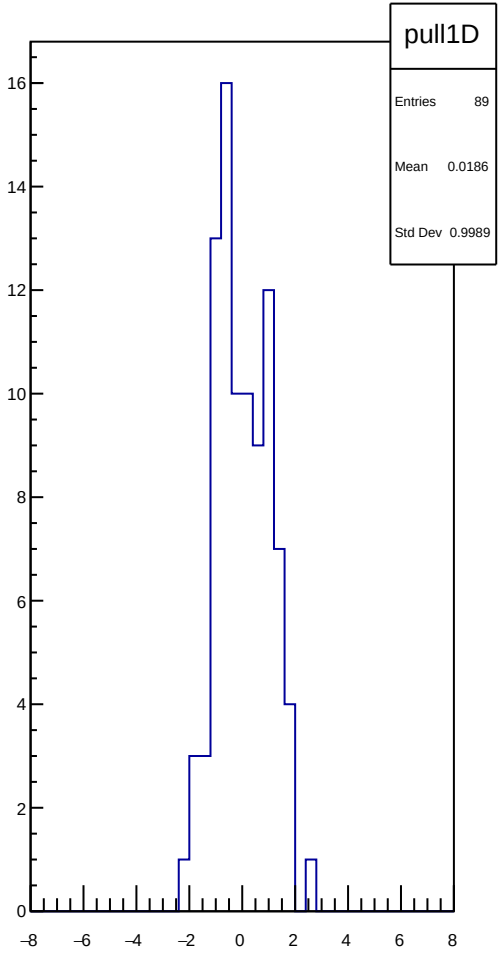

dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 247.6 / 88
p0 1295 ± 0.9829
1340
1320
1300
1280
1260
1240

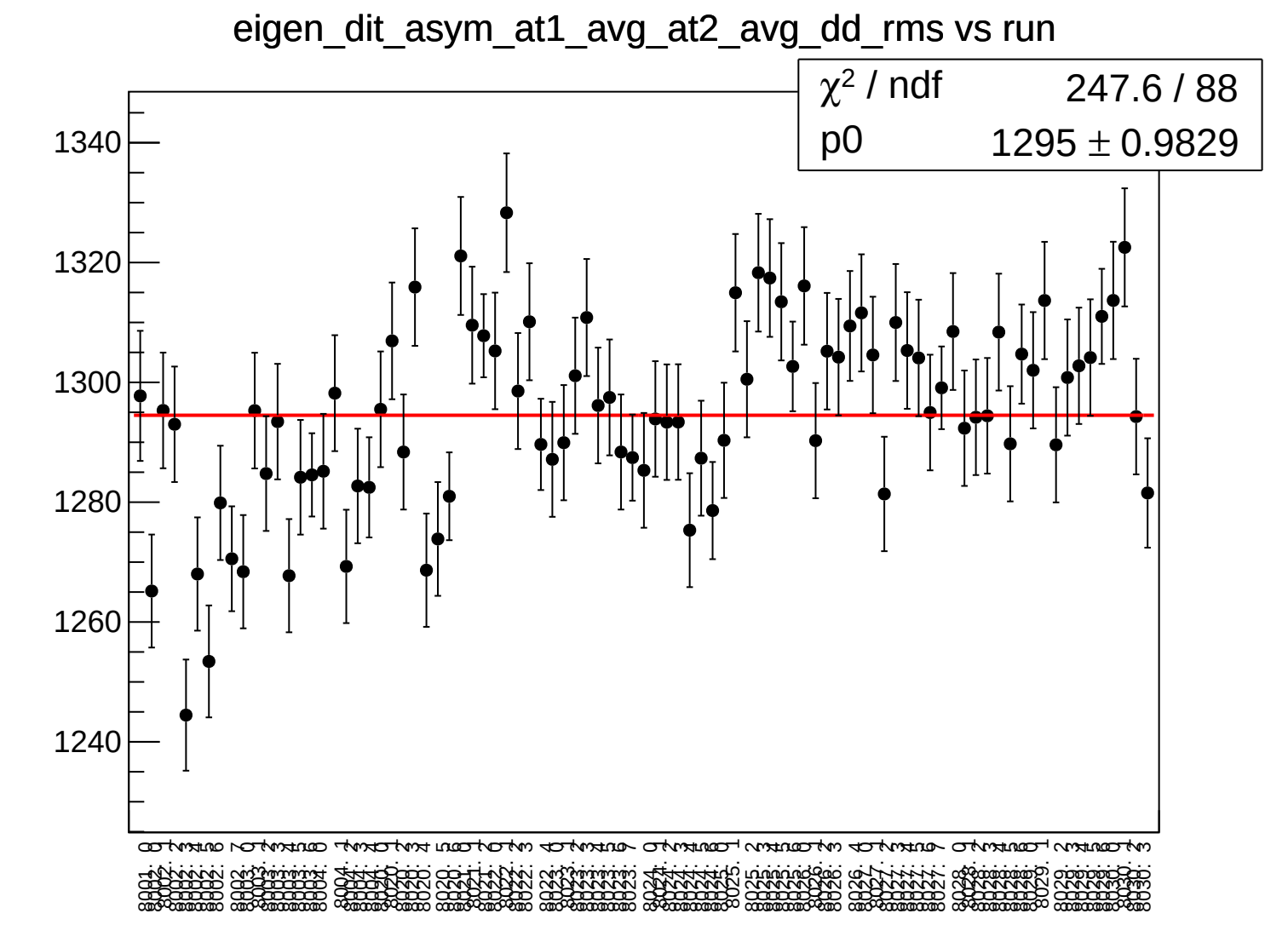

asym_at1_avg_at2_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 96.85 / 88
p0 −700.2 ± 5707
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean 156.5
Std Dev 0
2
1
0
−1
−2

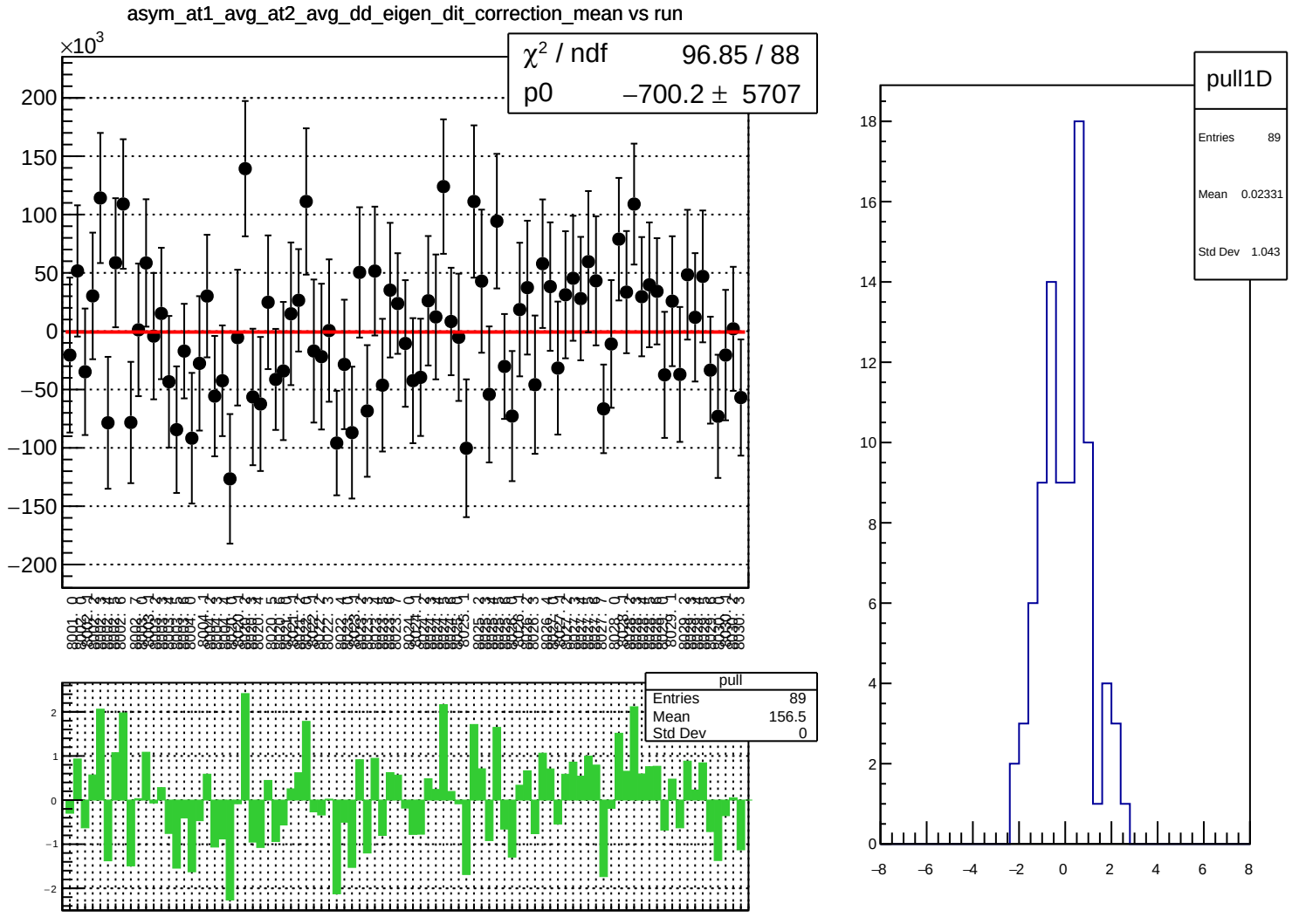

pull1D
Entries 89
Mean 0.02331
Std Dev 1.043
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

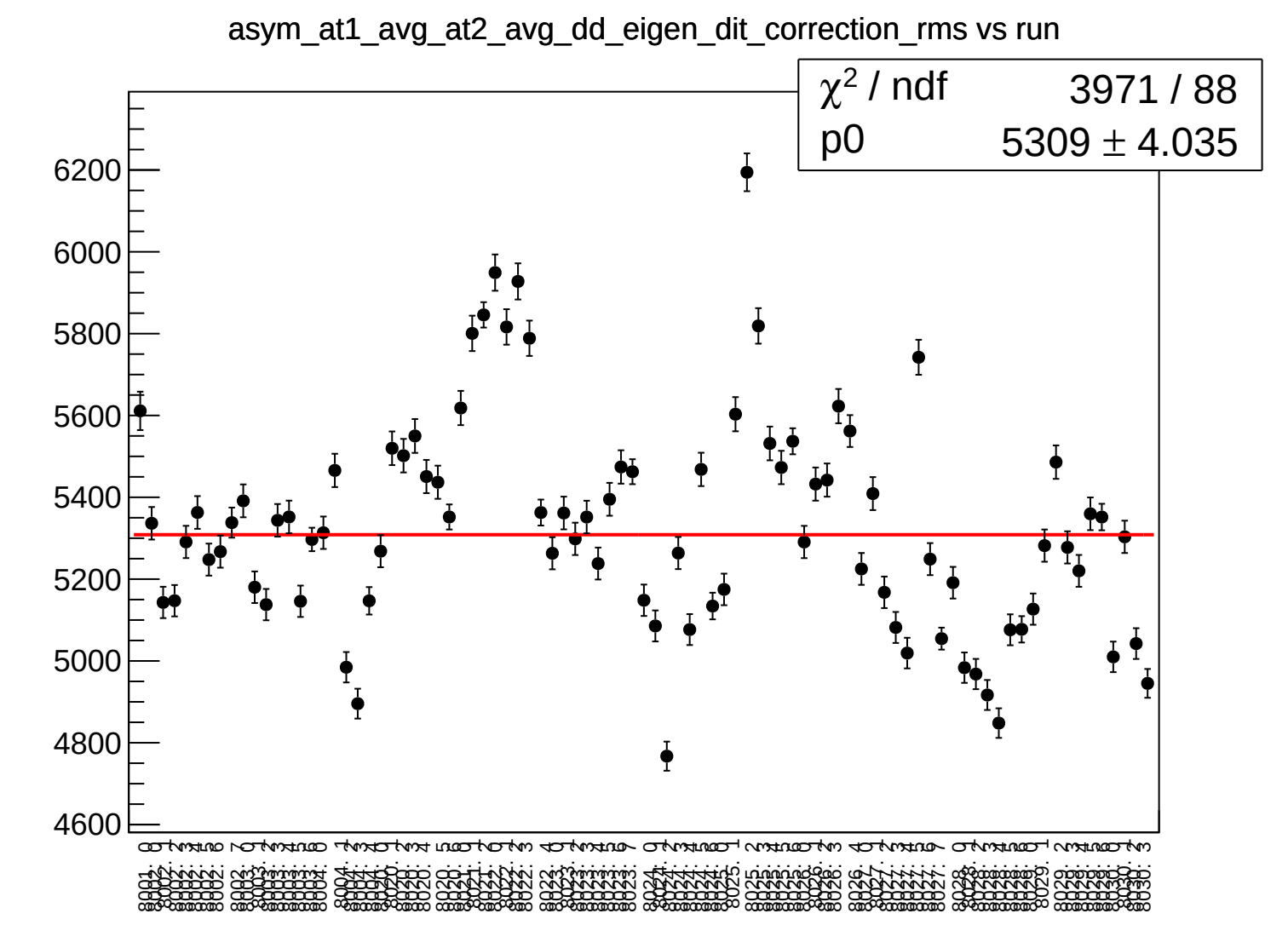

asym_at1_avg_at2_avg_dd_dit_correction_rms vs run
χ² / ndf 3971 / 88
p0 5309 ± 4.035
6200
6000
5800
5600
5400
5200
5000
4800
4600

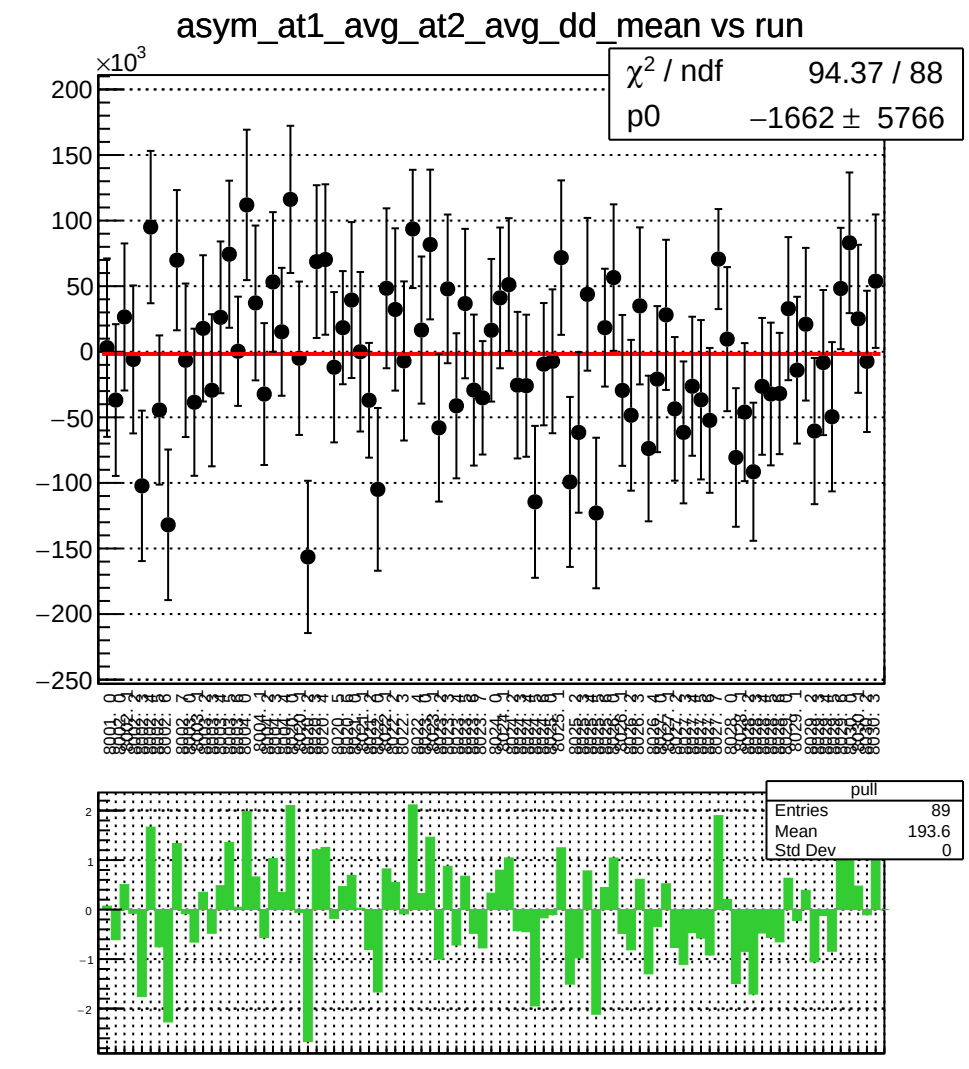

eigen_dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 88.84 / 88
p0 −2296 ± 1390
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 5.023
Std Dev 72.47
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

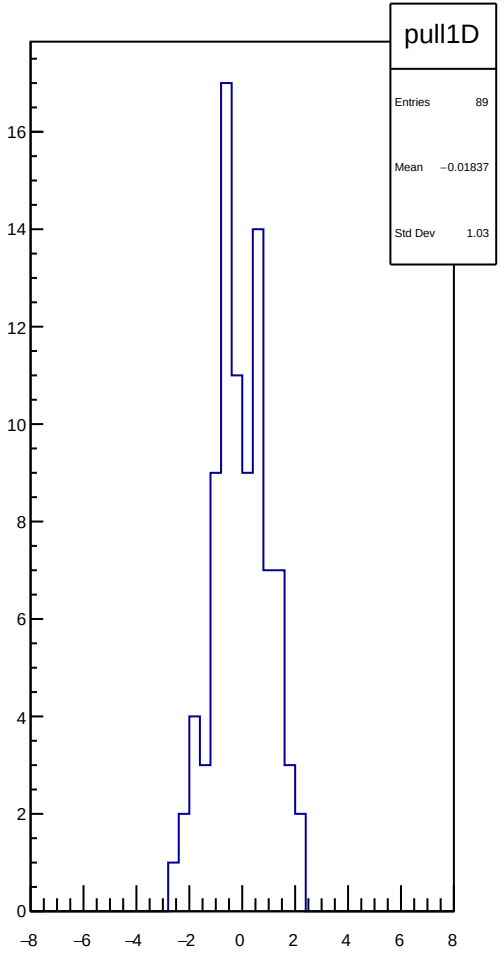

pull1D
Entries 89
Mean 0.0186
Std Dev 0.9989
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

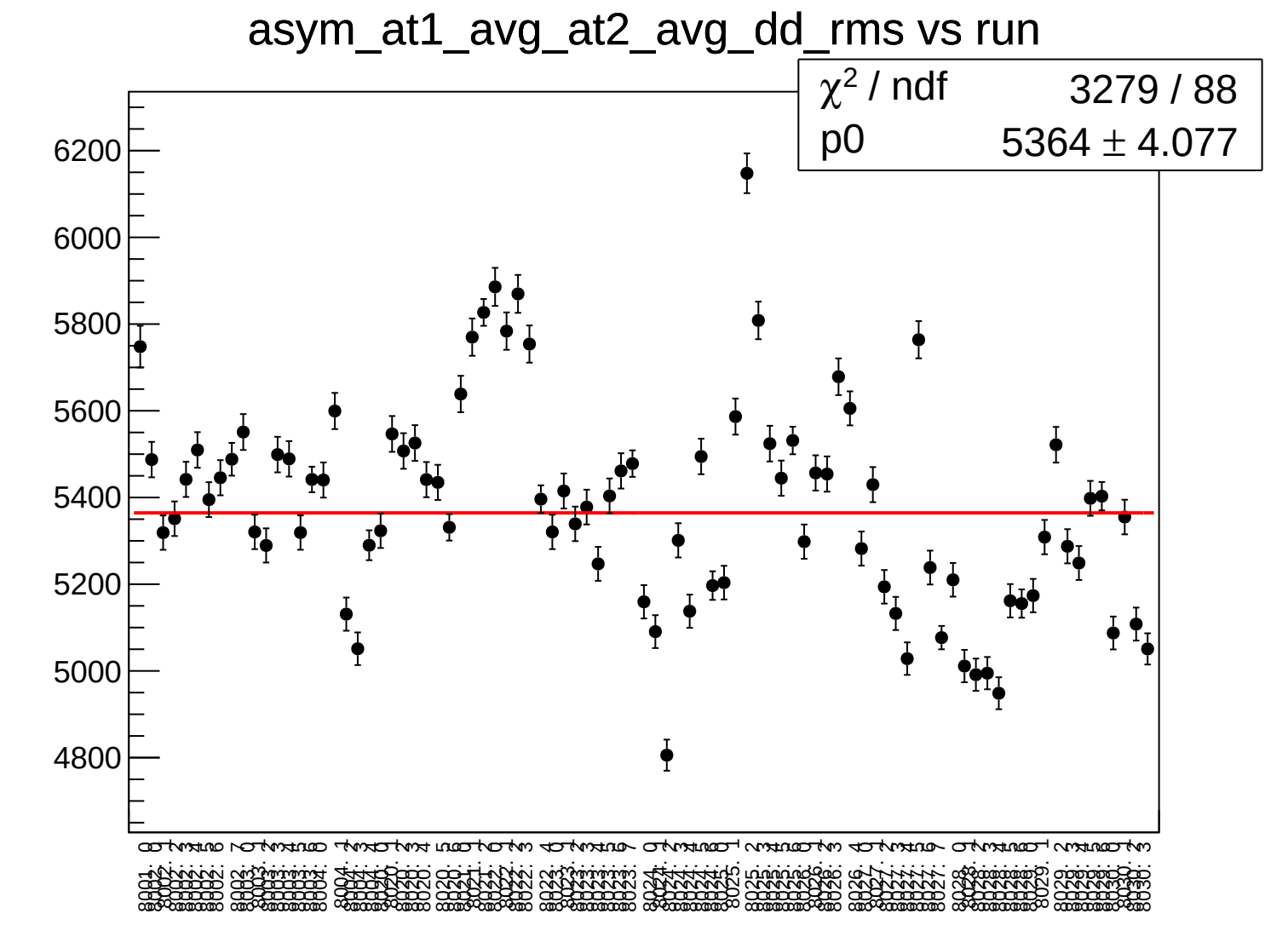

eigen_dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 247.6 / 88
p0 1295 ± 0.9829
1340
1320
1300
1280
1260
1240

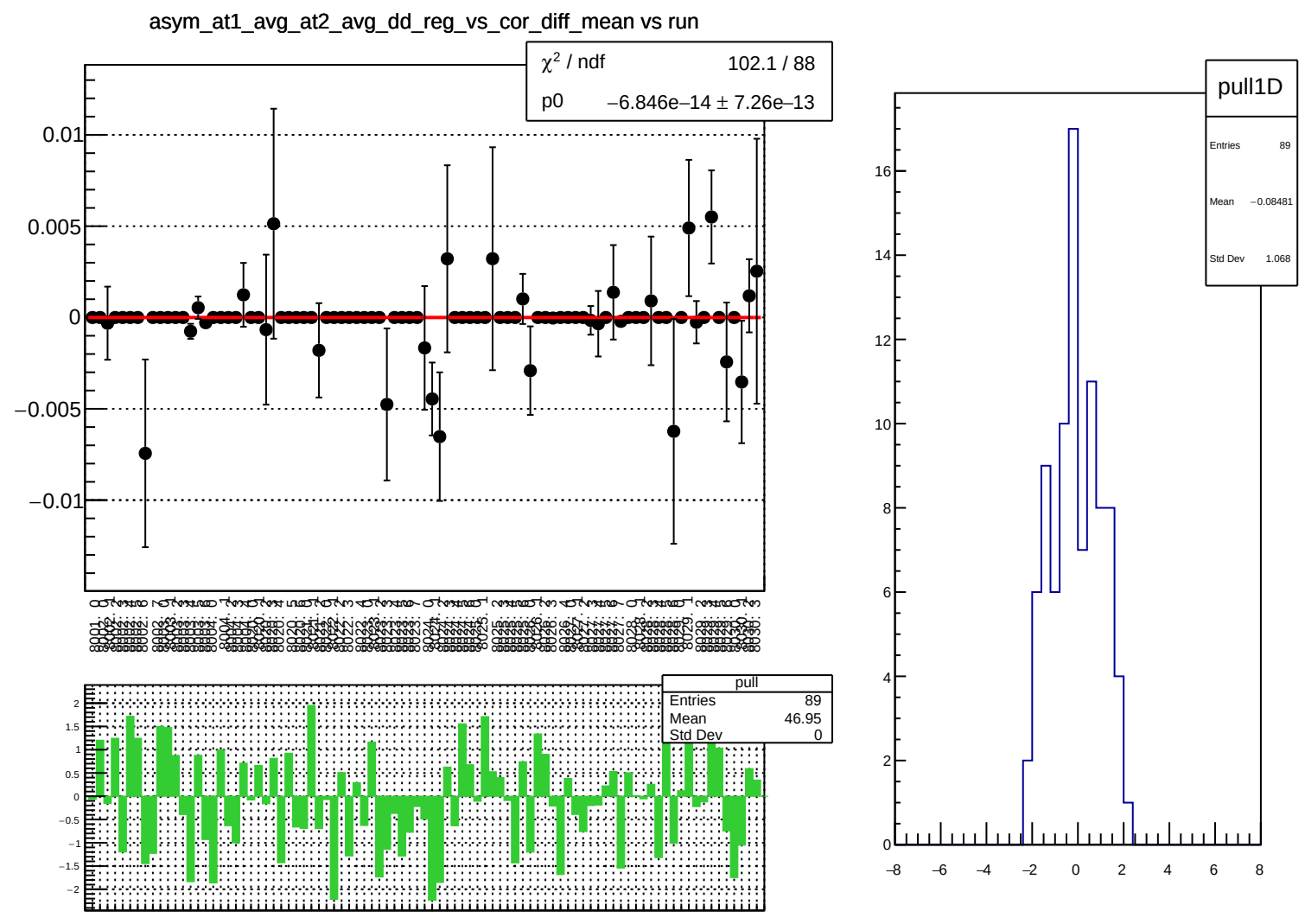

asym_at1_avg_at2_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 96.85 / 88
p0 −700.2 ± 5707
pull
Entries 89
Mean 156.5
Std Dev 0
pull1D
Entries 89
Mean 0.02331
Std Dev 1.043

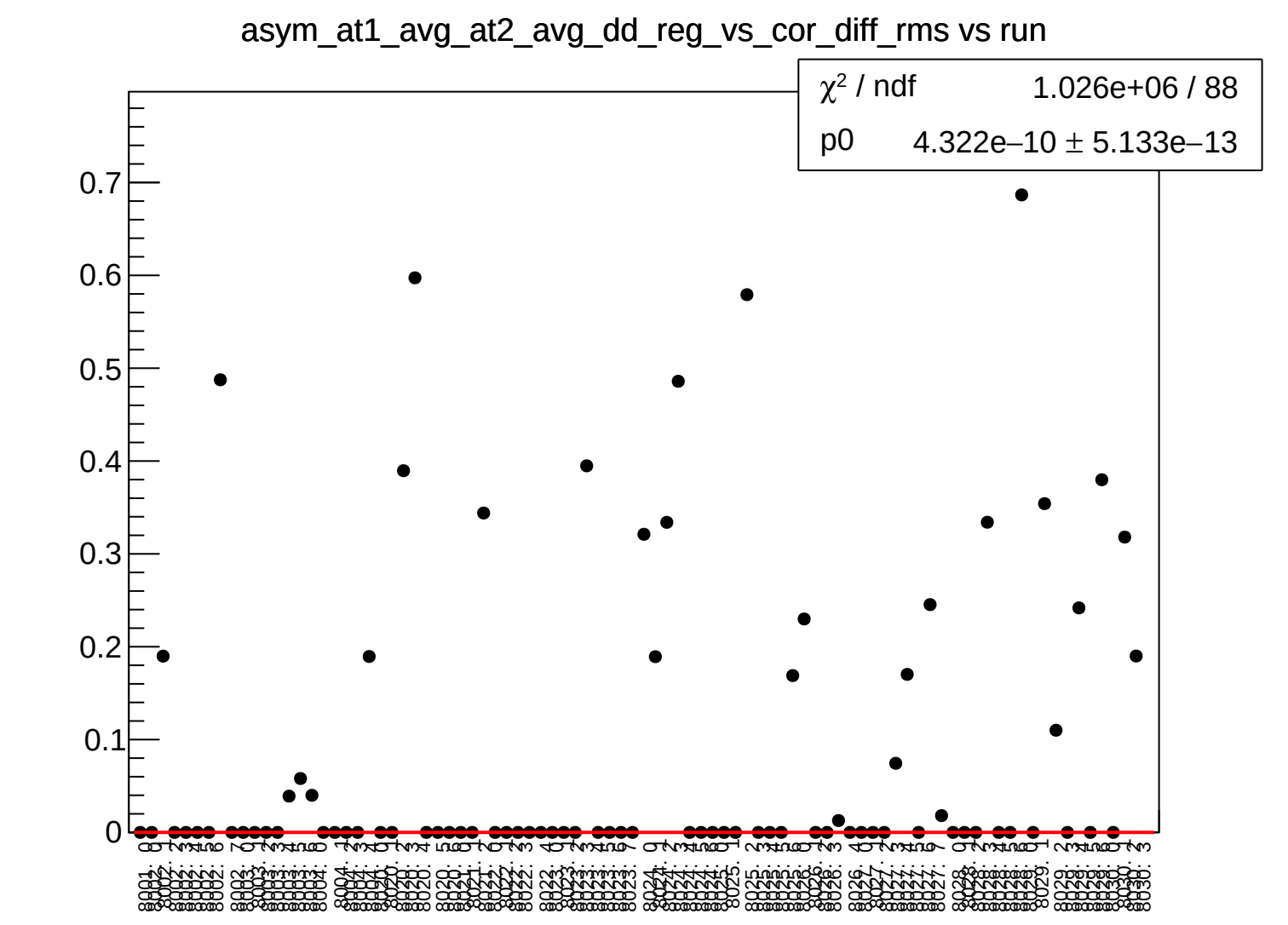

asym_at1_avg_at2_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 3971 / 88
p0 5309 ± 4.035
6200
6000
5800
5600
5400
5200
5000
4800
4600

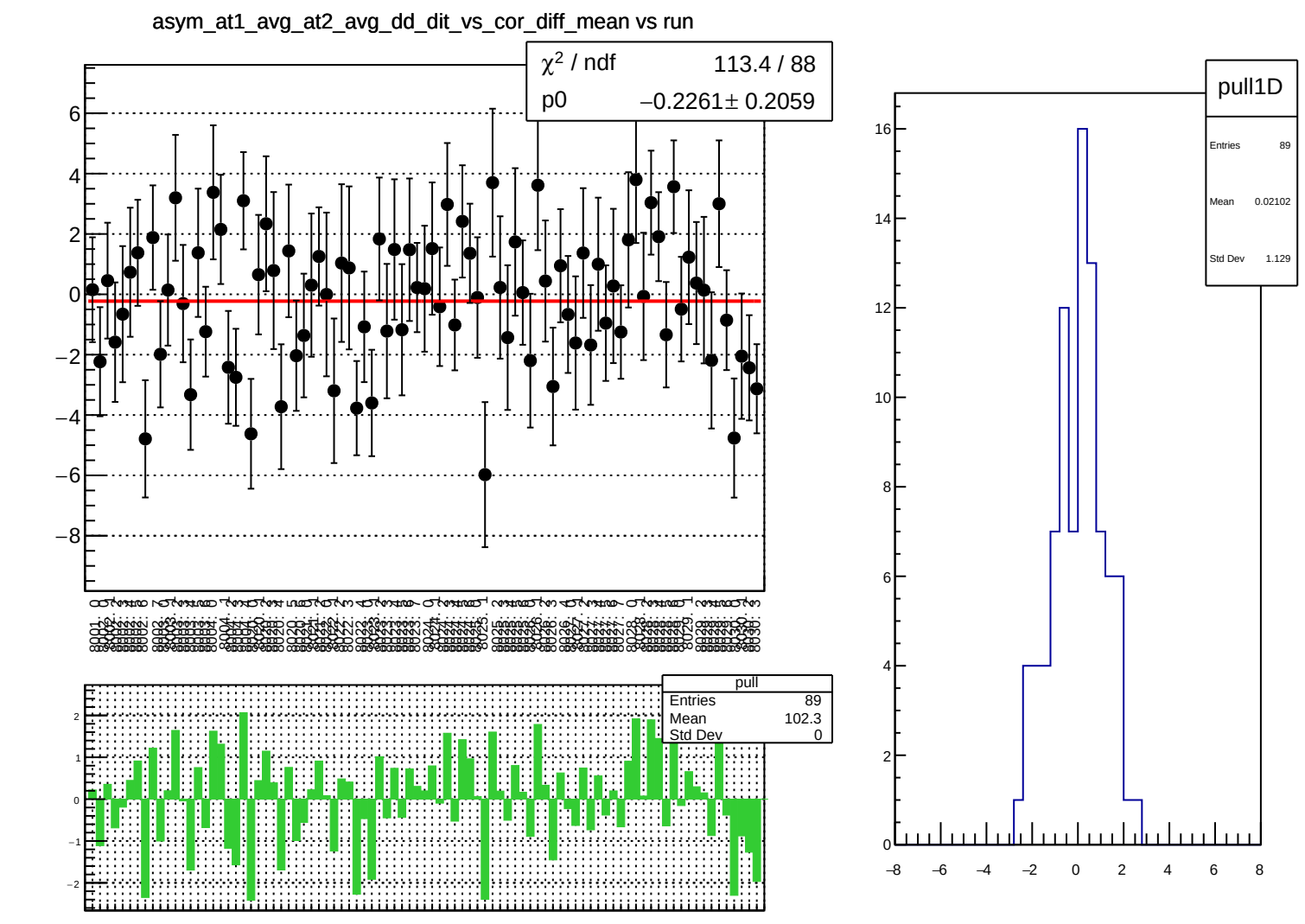

asym_at1_avg_at2_avg_dd_mean vs run
×10^3
χ² / ndf 94.37 / 88
p0 −1662 ± 5766
pull
Entries 89
Mean 193.6
Std Dev 0

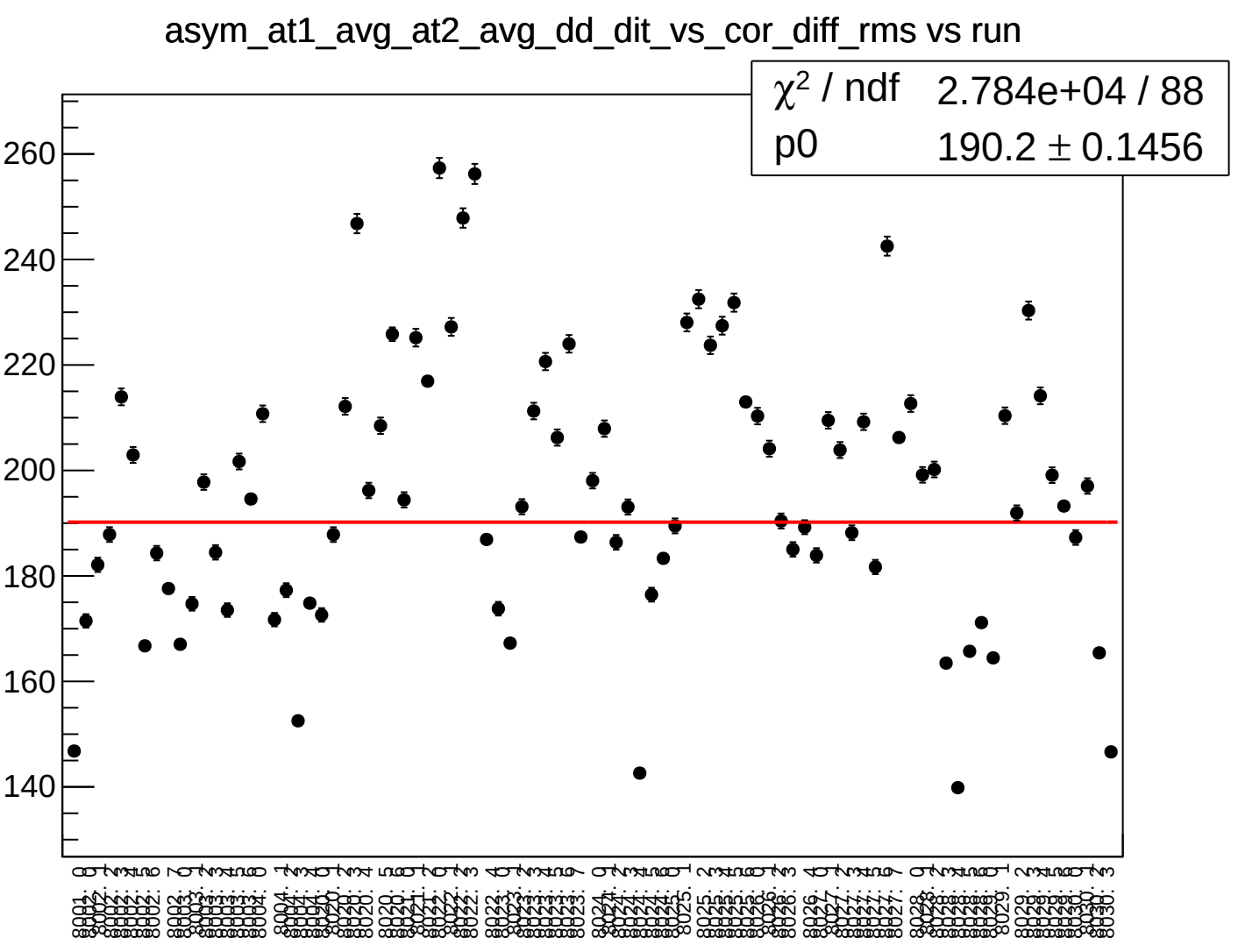

pull1D
Entries 89
Mean −0.01837
Std Dev 1.03

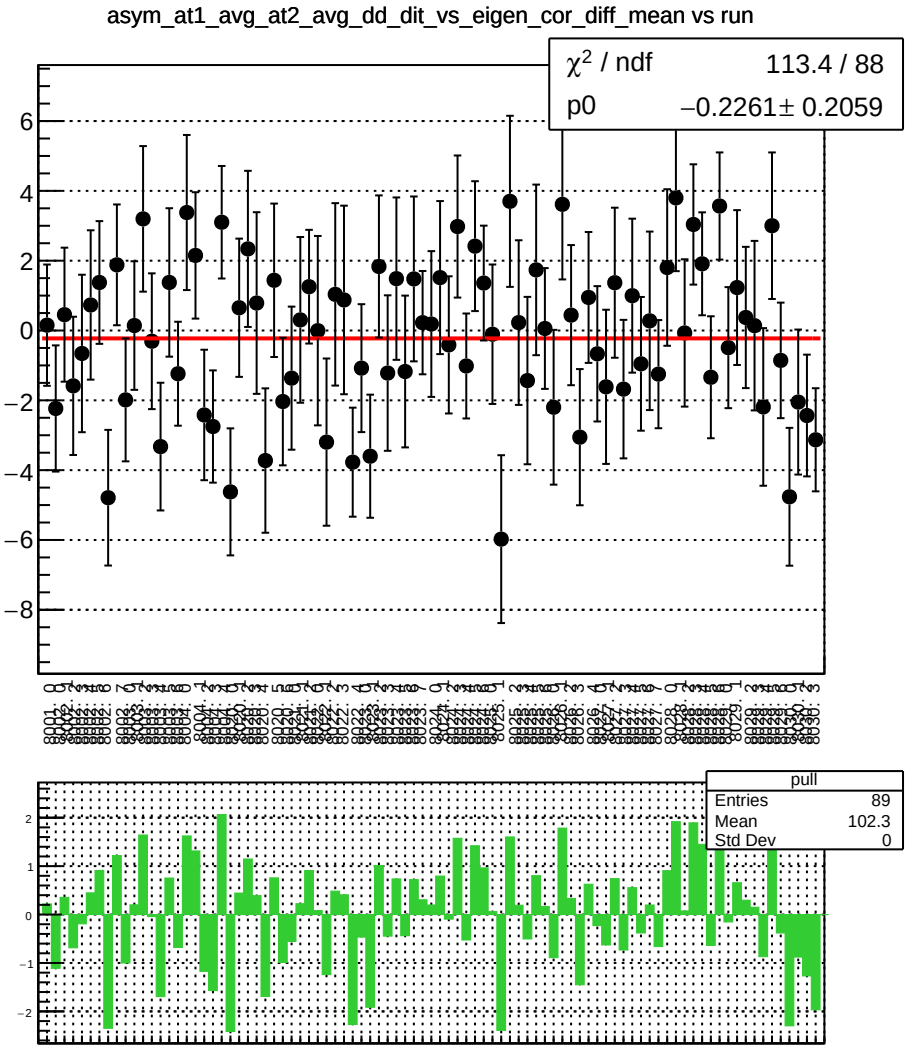

asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 3279 / 88
p0 5364 ± 4.077
6200
6000
5800
5600
5400
5200
5000
4800

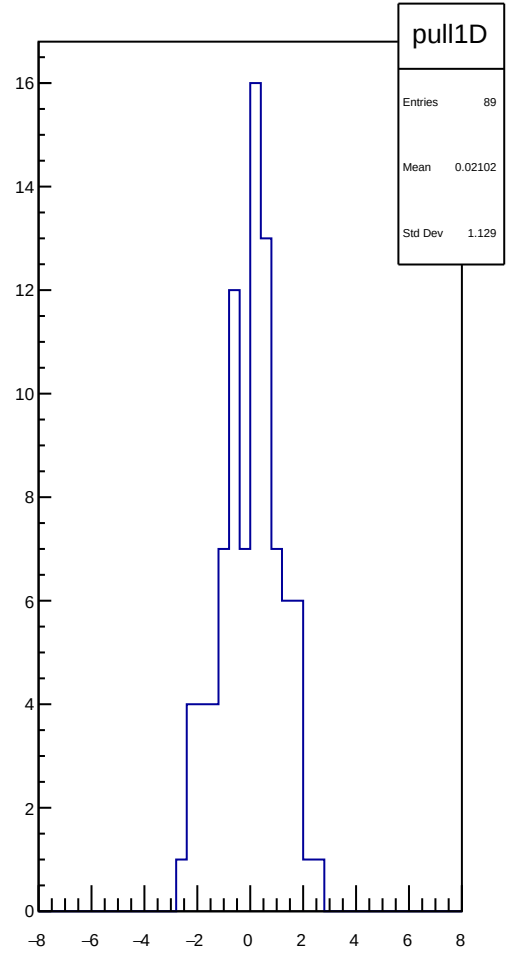

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 102.1 / 88
p0 −6.846e−14 ± 7.26e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 89
Mean 46.95
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean −0.08481
Std Dev 1.068
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

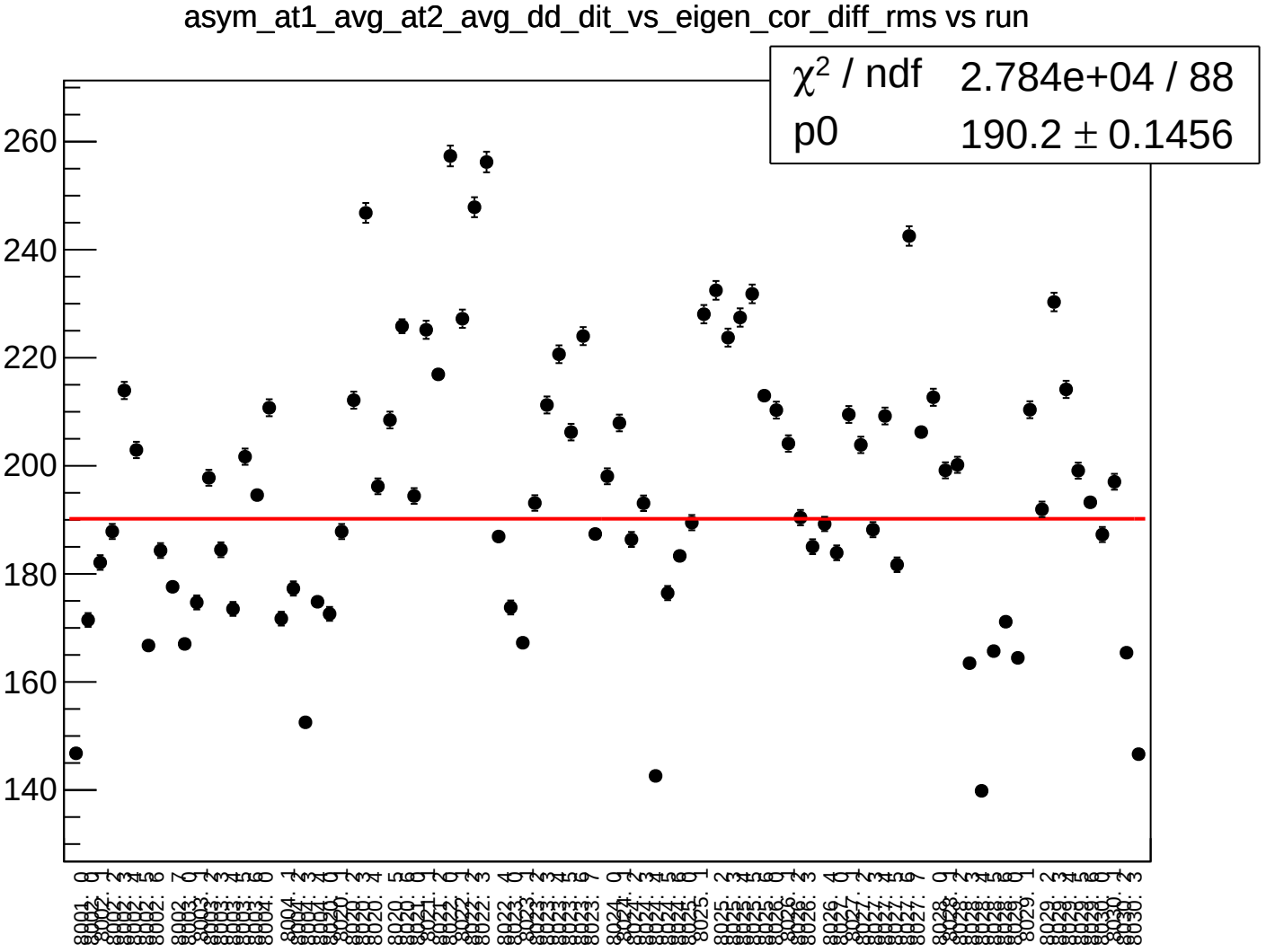

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.026e+06 / 88
p0 4.322e−10 ± 5.133e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

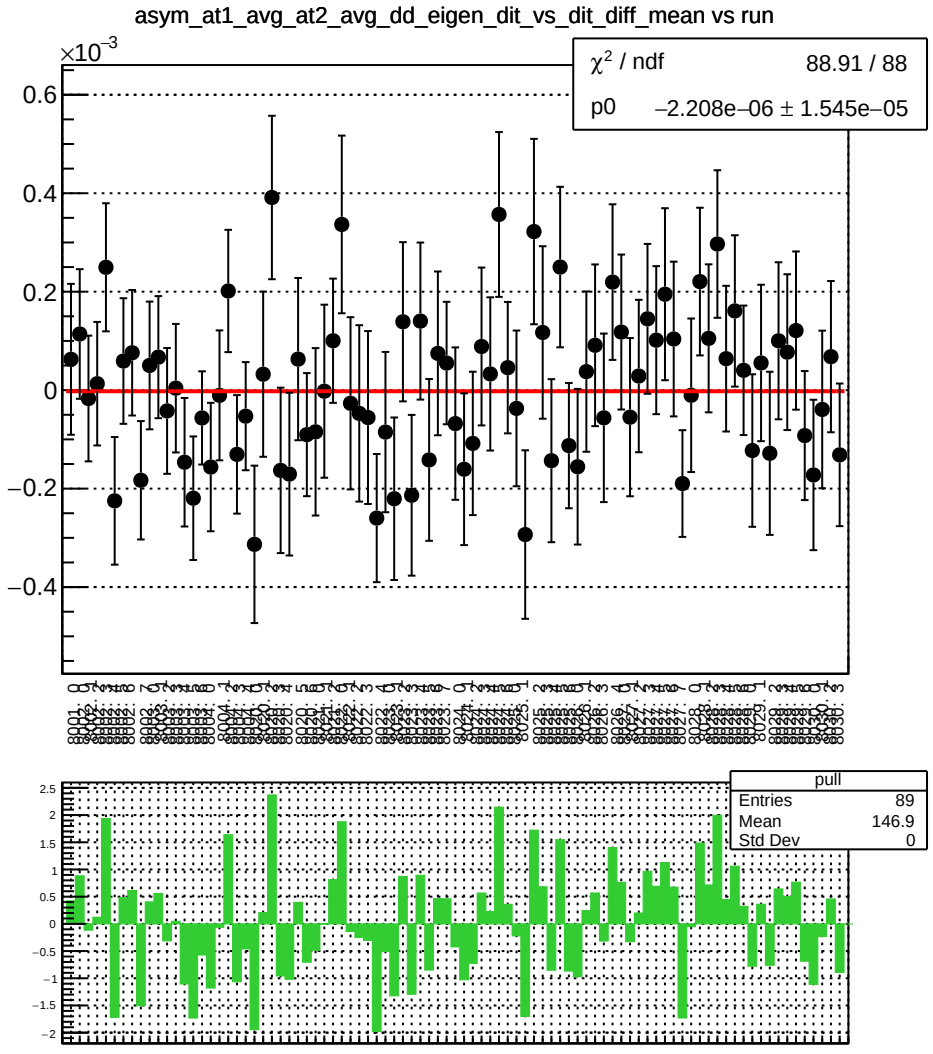

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 113.4 / 88
p0 −0.2261± 0.2059
pull
Entries 89
Mean 102.3
Std Dev 0
pull1D
Entries 89
Mean 0.02102
Std Dev 1.129

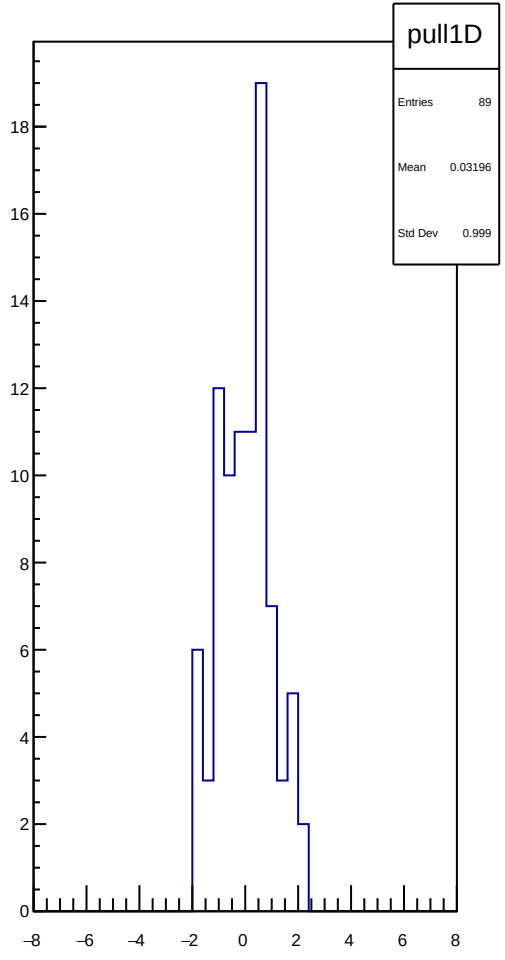

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.784e+04 / 88
p0 190.2 ± 0.1456
260
240
220
200
180
160
140

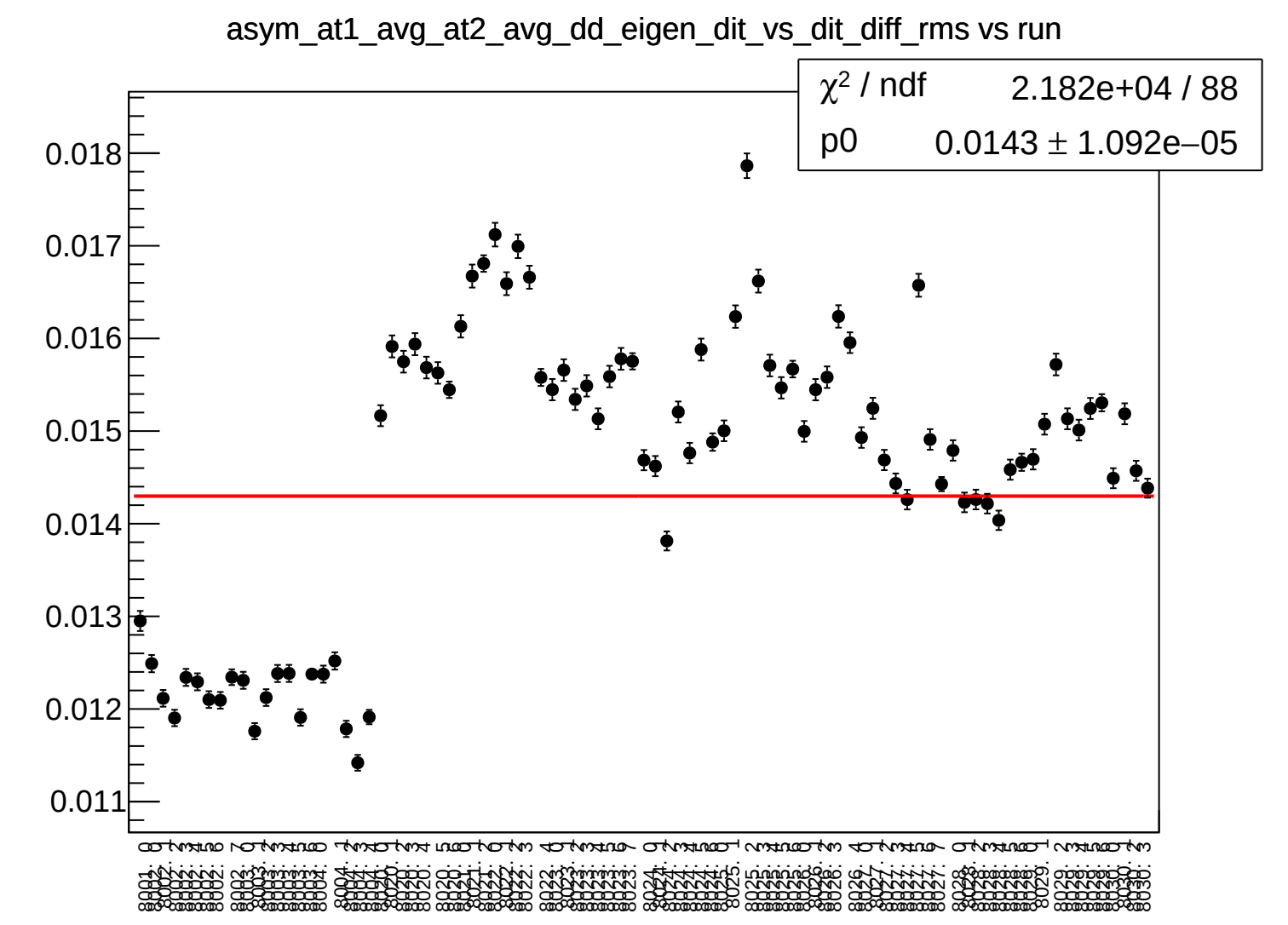

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 113.4 / 88
p0 −0.2261± 0.2059
pull
Entries 89
Mean 102.3
Std Dev 0

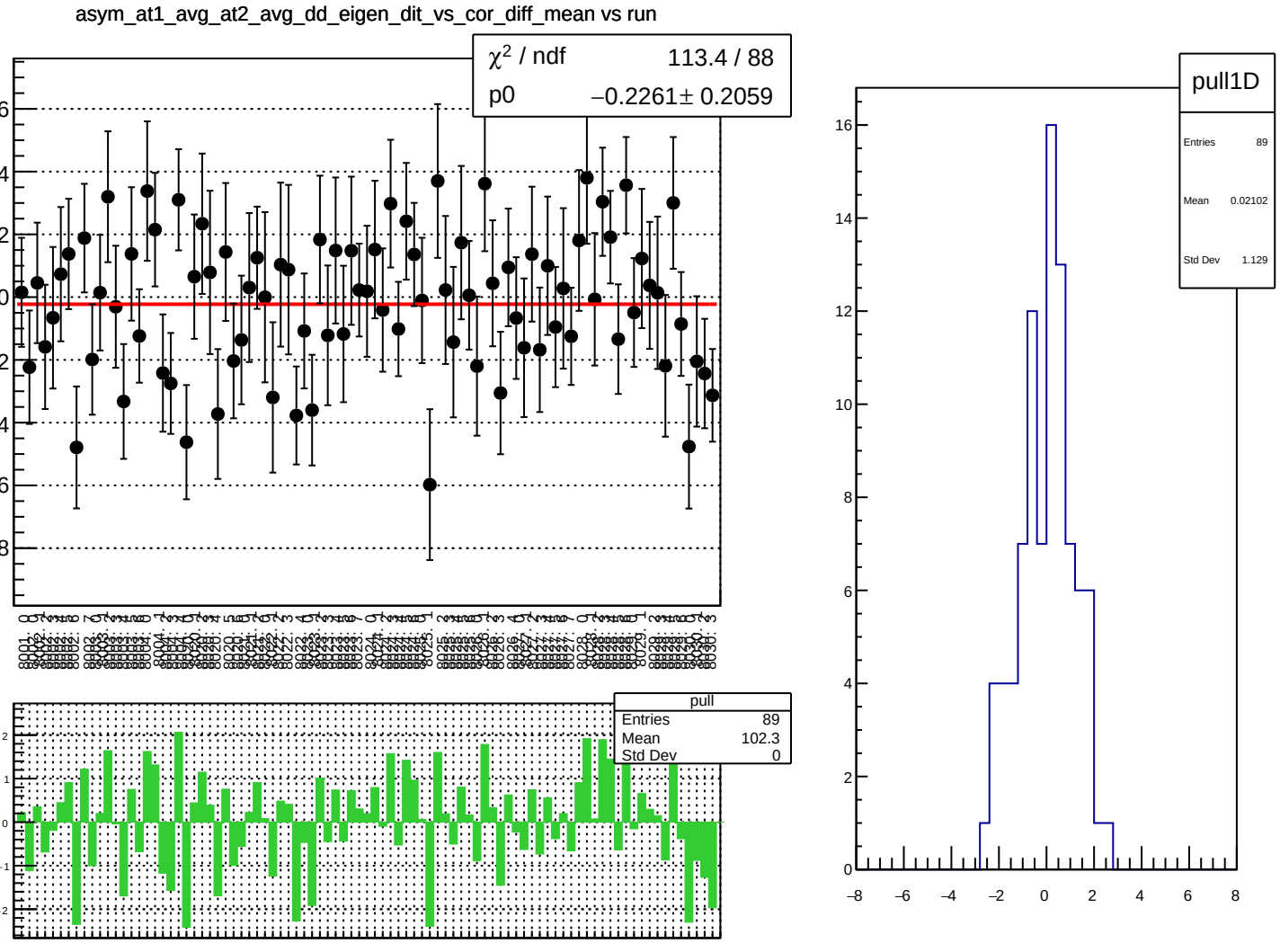

pull1D
Entries 89
Mean 0.02102
Std Dev 1.129

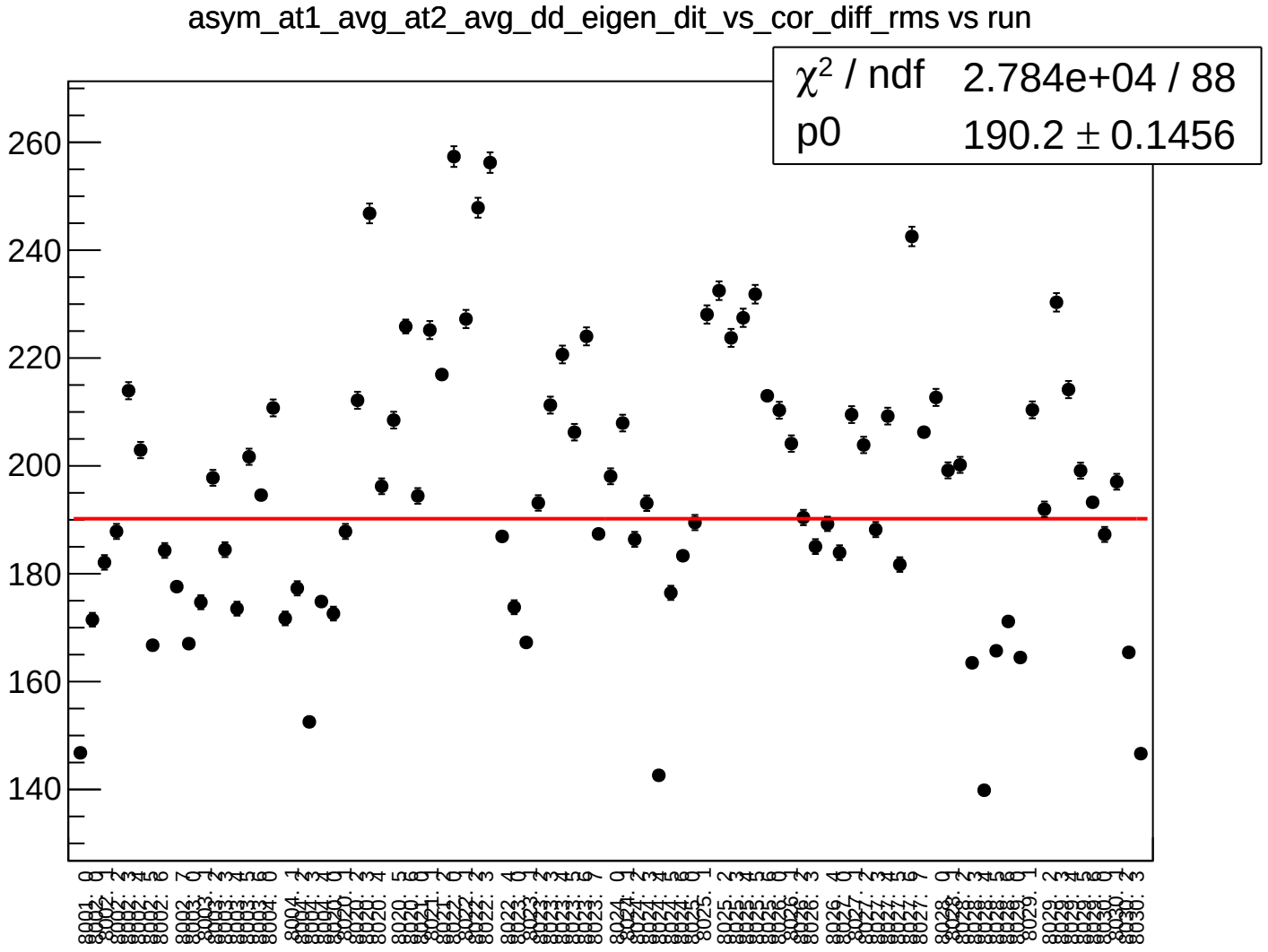

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.784e+04 / 88
p0 190.2 ± 0.1456
260
240
220
200
180
160
140

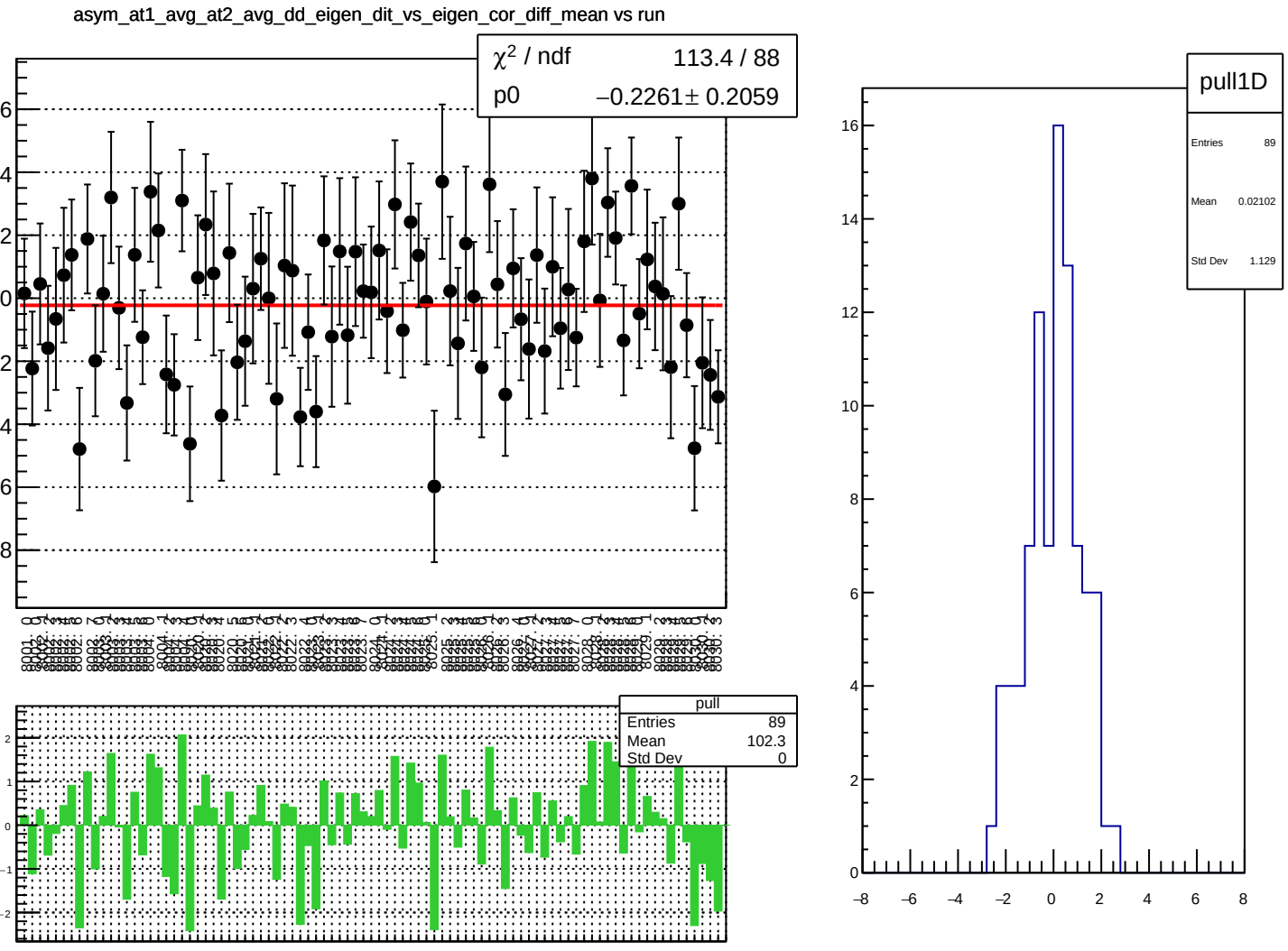

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.91 / 88
p0 −2.208e−06 ± 1.545e−05
pull
Entries 89
Mean 146.9
Std Dev 0

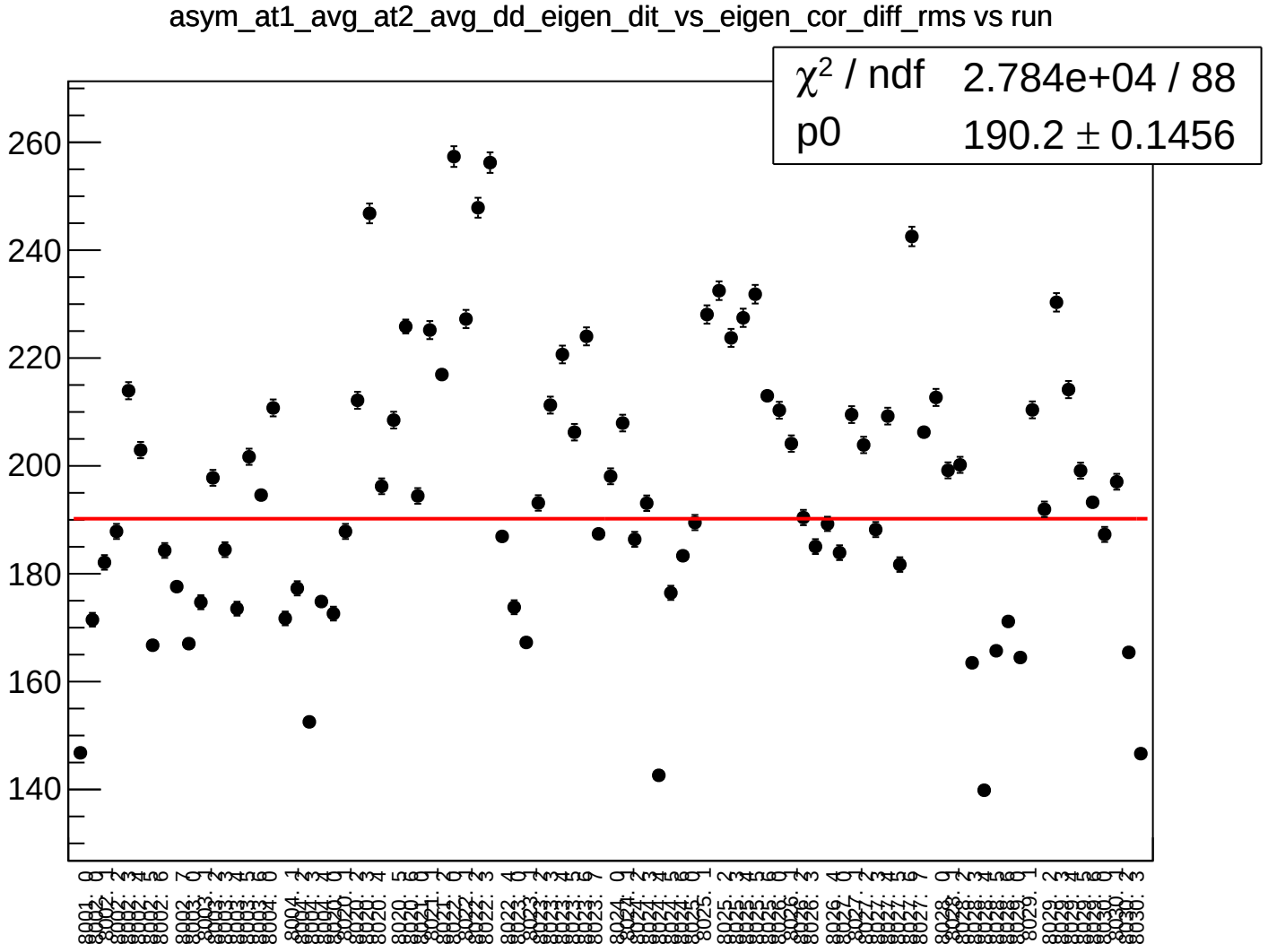

pull1D
Entries 89
Mean 0.03196
Std Dev 0.999

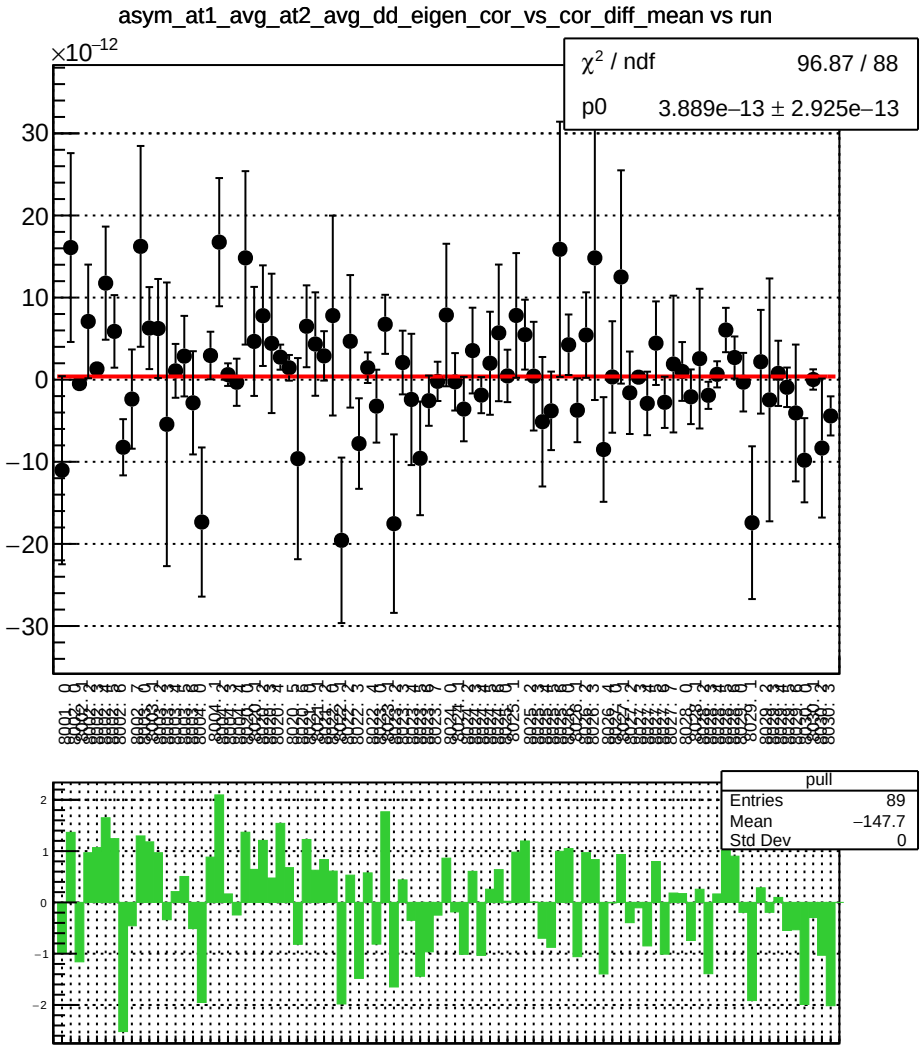

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.182e+04 / 88
p0 0.0143 ± 1.092e−05
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011

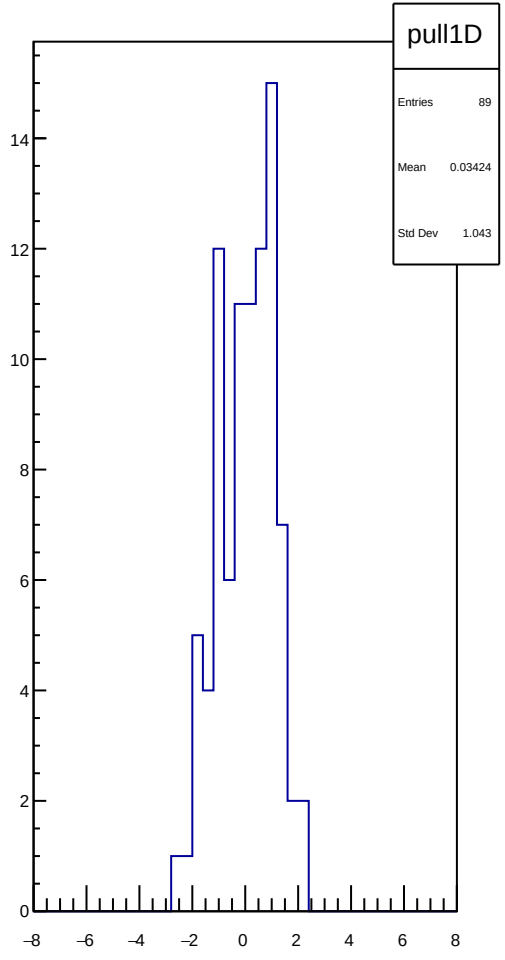

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 113.4 / 88
p0 −0.2261± 0.2059
pull
Entries 89
Mean 102.3
Std Dev 0
pull1D
Entries 89
Mean 0.02102
Std Dev 1.129

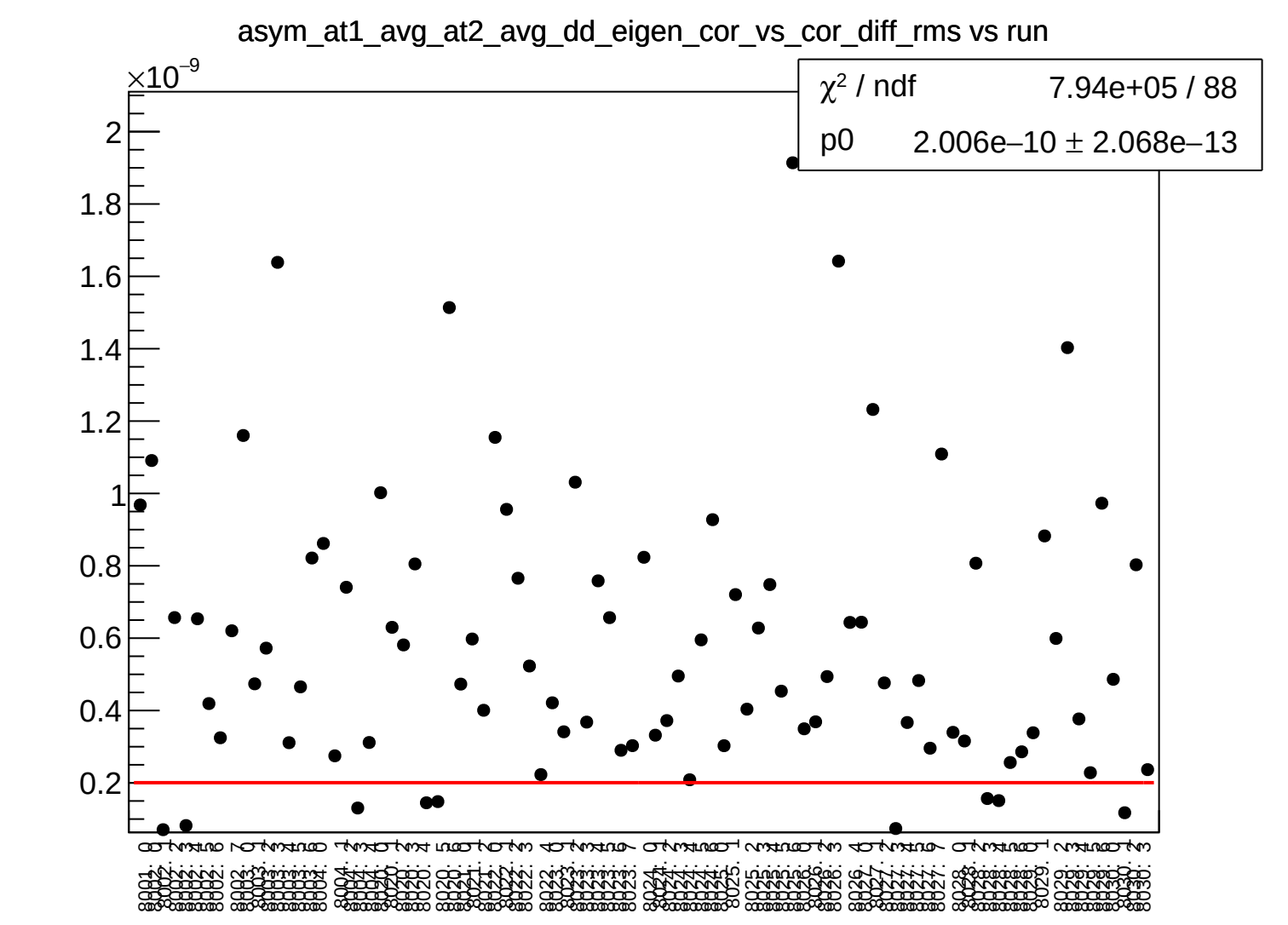

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.784e+04 / 88
p0 190.2 ± 0.1456
260
240
220
200
180
160
140

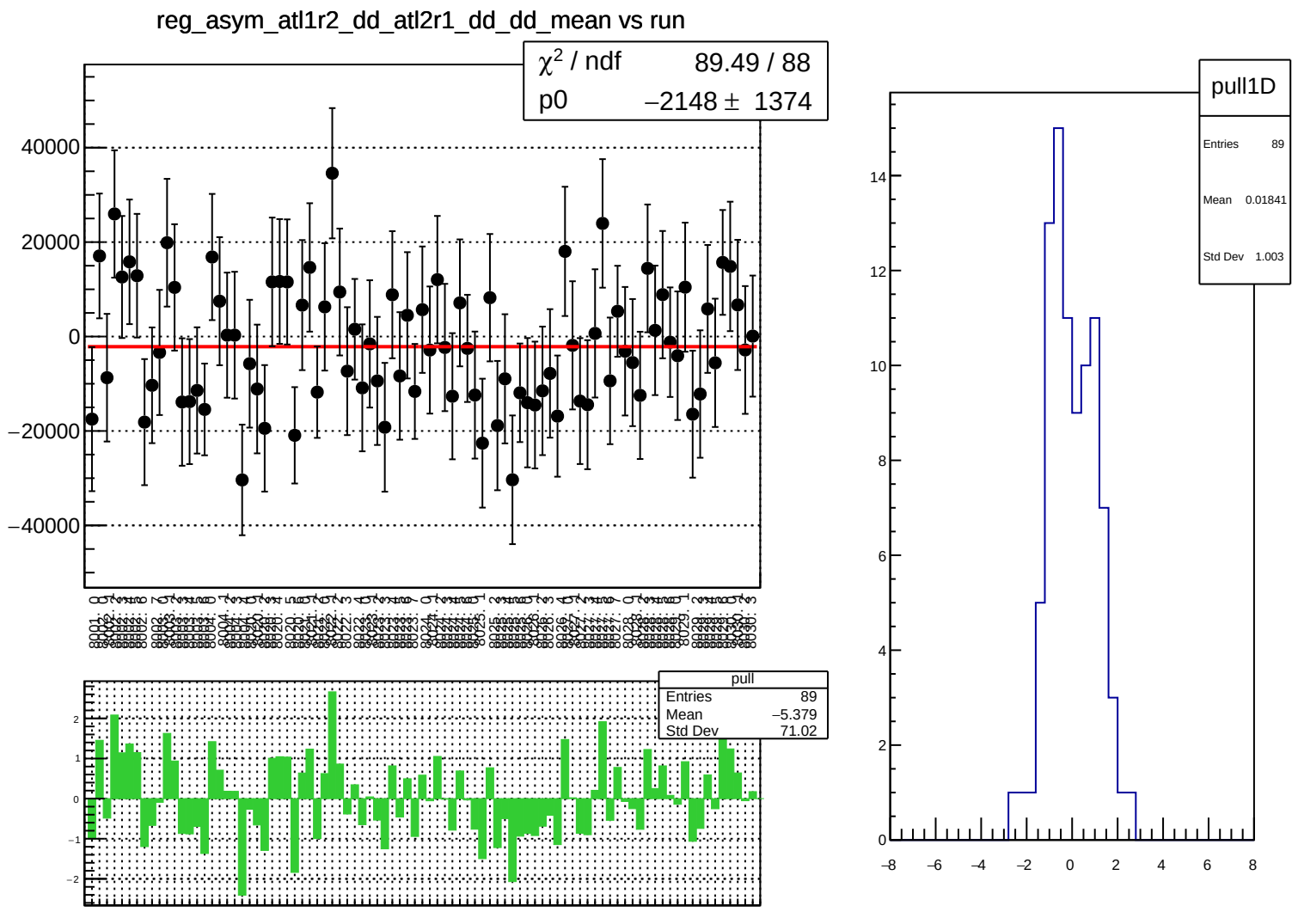

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 113.4 / 88
p0 −0.2261± 0.2059
pull
Entries 89
Mean 102.3
Std Dev 0
pull1D
Entries 89
Mean 0.02102
Std Dev 1.129

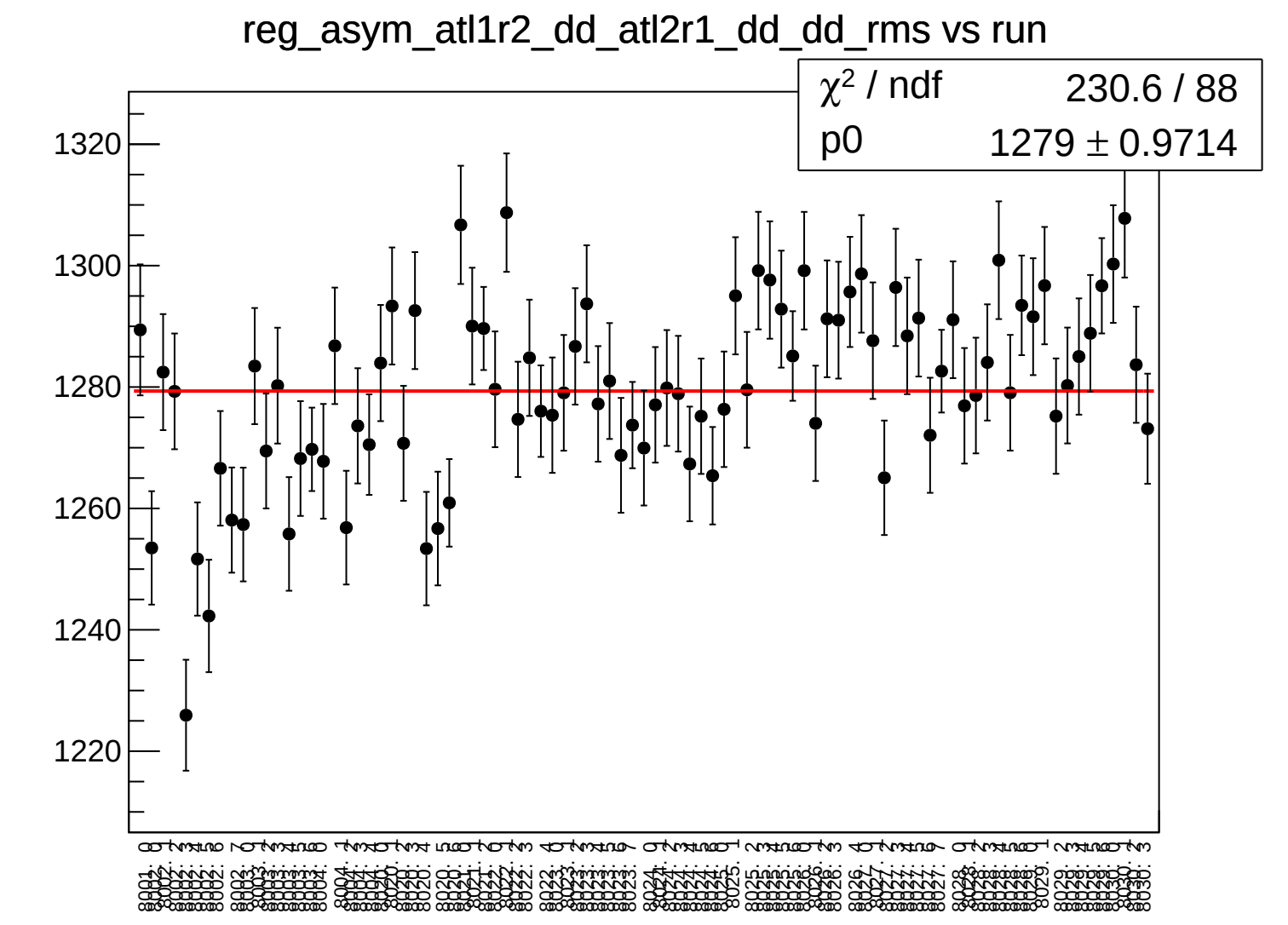

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.784e+04 / 88
p0 190.2 ± 0.1456
260
240
220
200
180
160
140

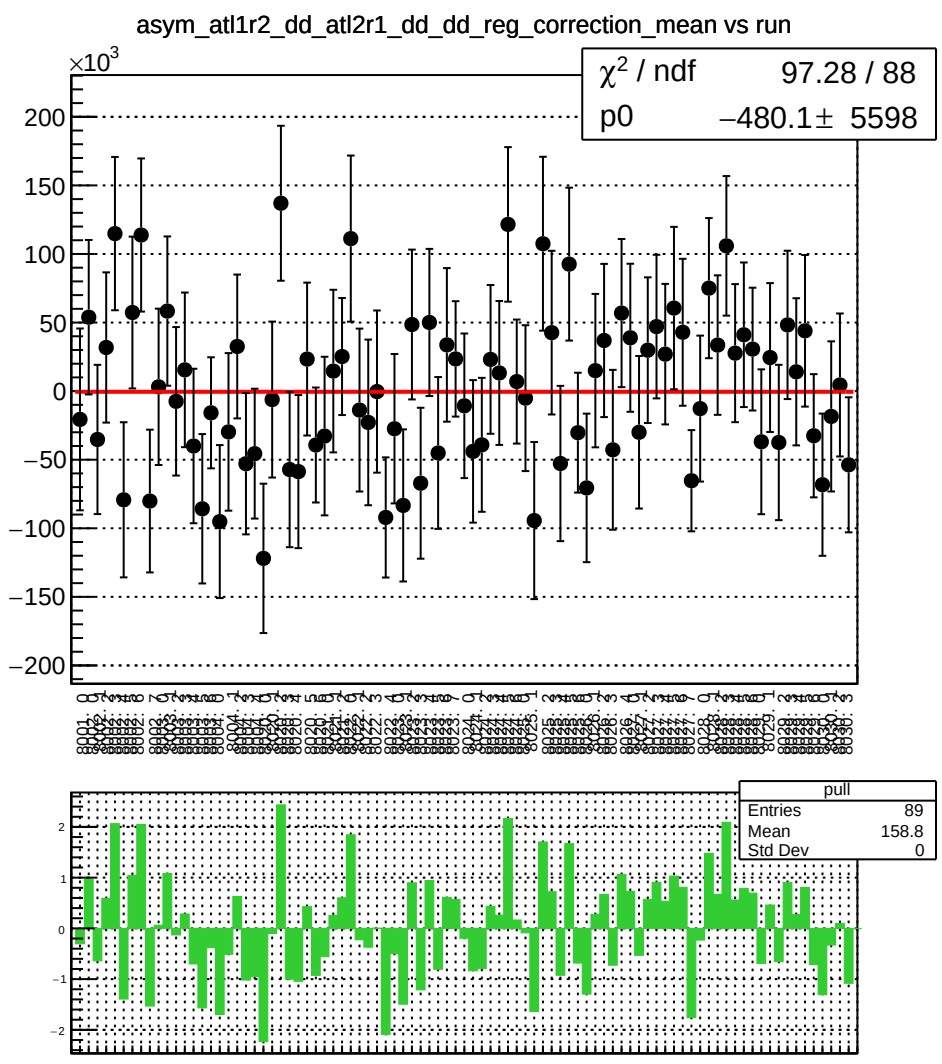

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.87 / 88
p0 3.889e−13 ± 2.925e−13
pull
Entries 89
Mean −147.7
Std Dev 0

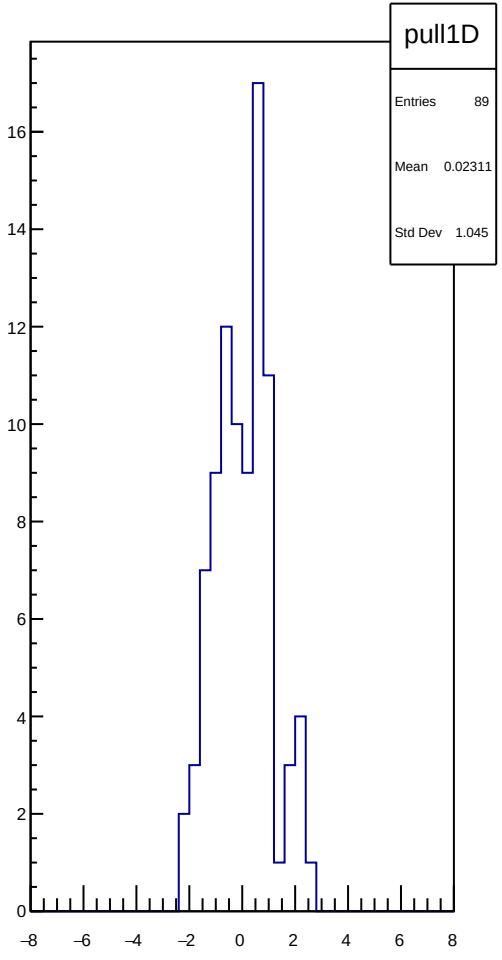

pull1D
Entries 89
Mean 0.03424
Std Dev 1.043

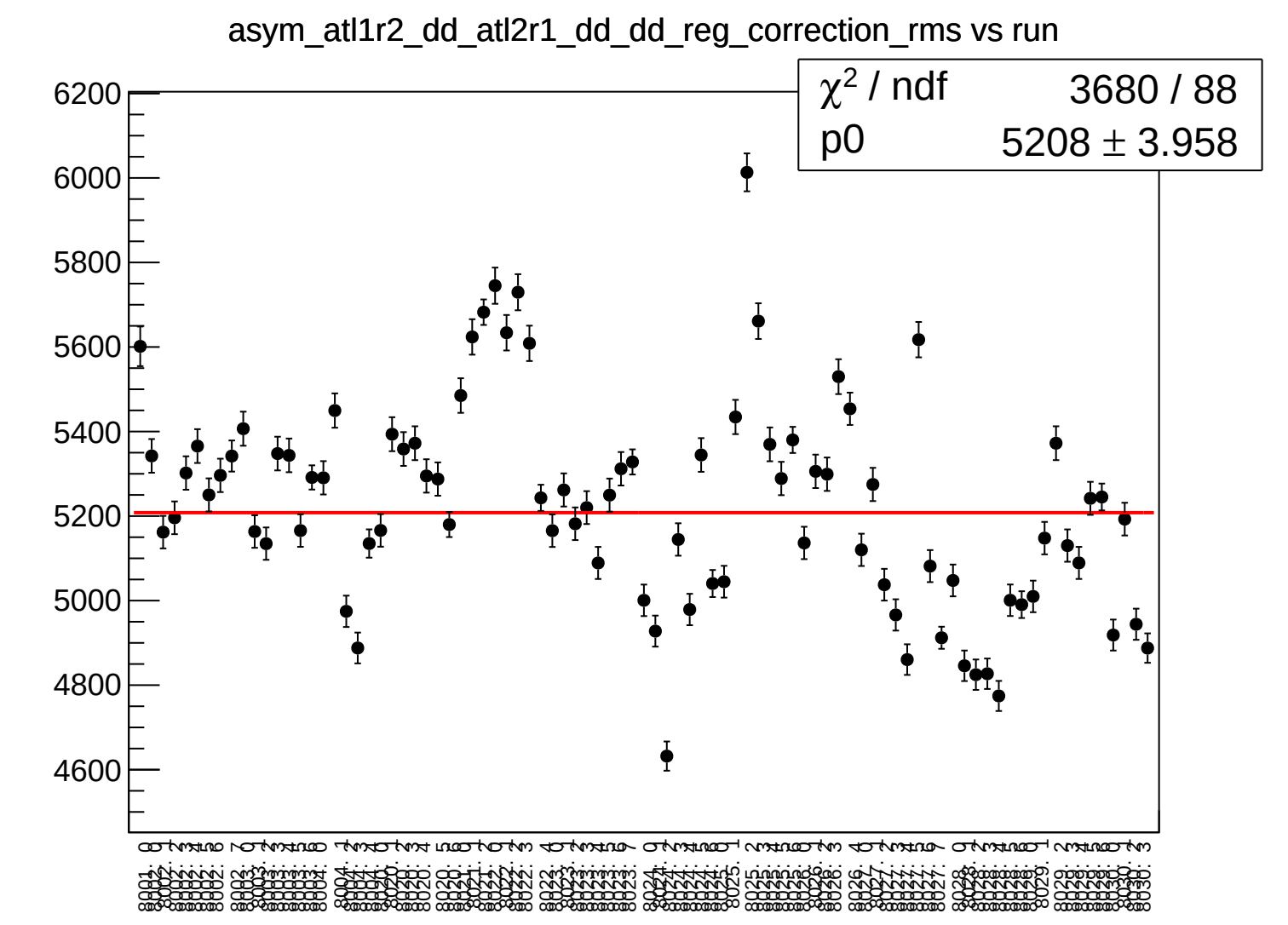

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.94e+05 / 88
p0 2.006e−10 ± 2.068e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

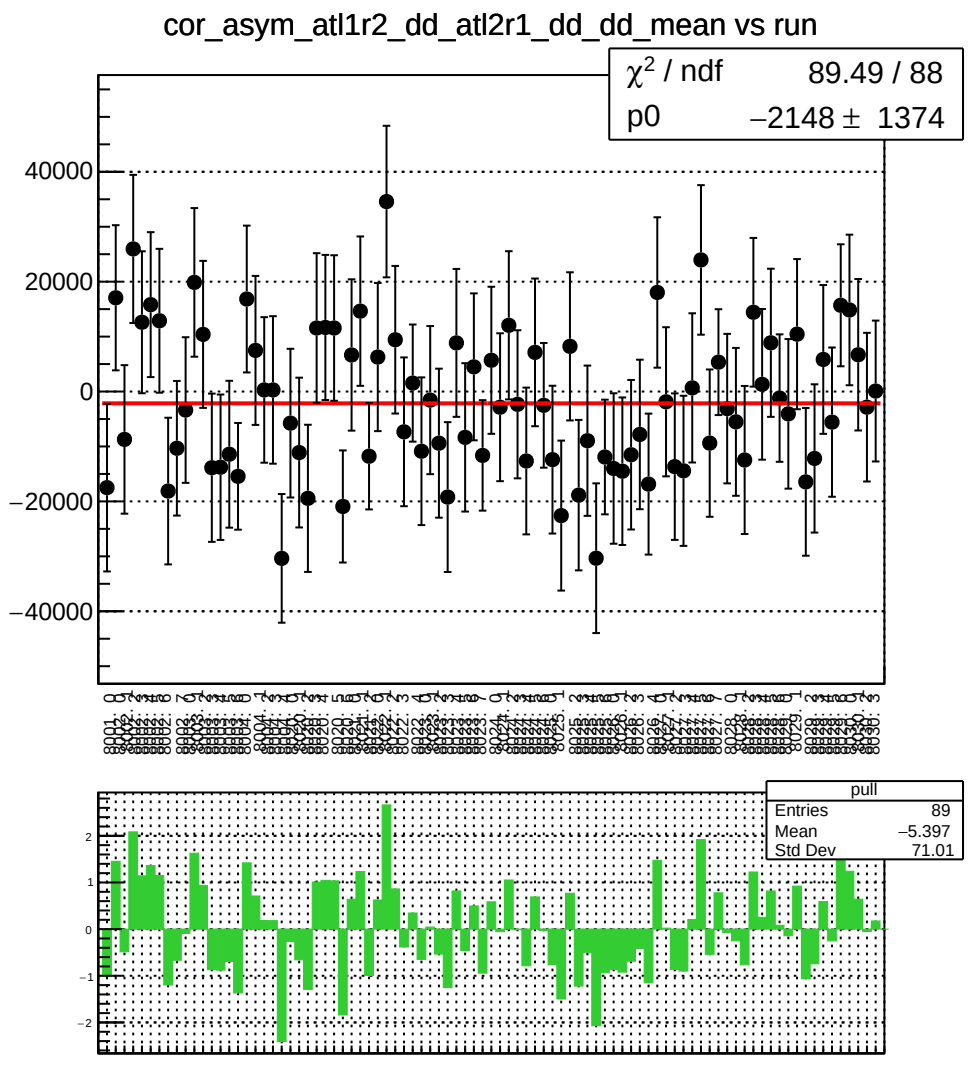

reg_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 89.49 / 88
p0 −2148 ± 1374
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −5.379
Std Dev 71.02
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.01841
Std Dev 1.003
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

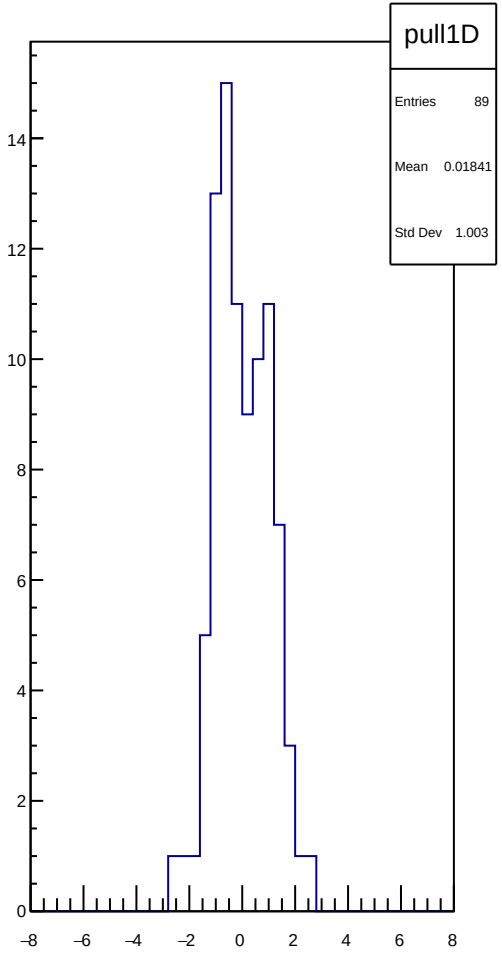

reg_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 230.6 / 88
p0 1279 ± 0.9714
1320
1300
1280
1260
1240
1220

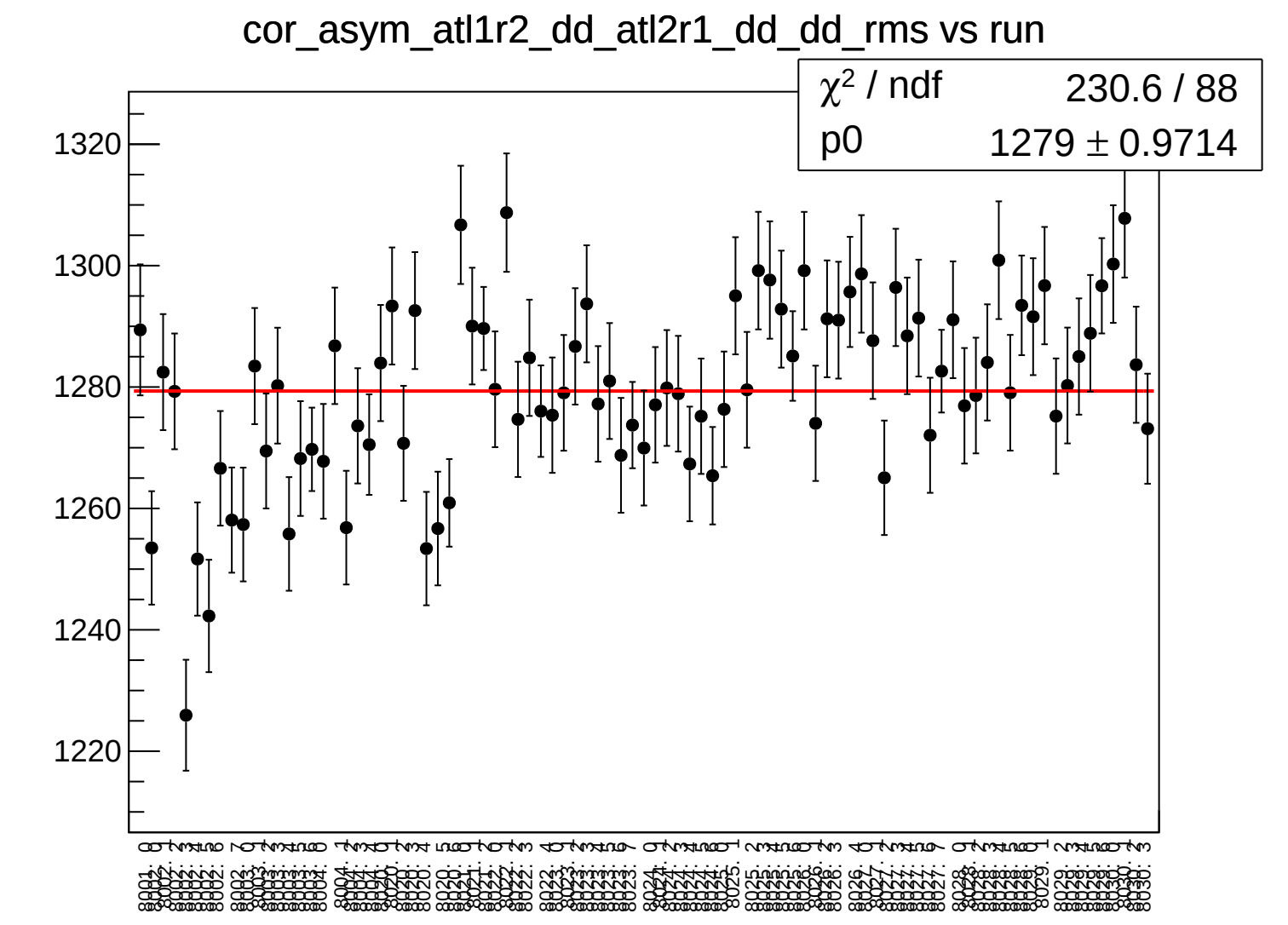

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_mean vs run
×10^3
χ² / ndf 97.28 / 88
p0 −480.1± 5598
pull
Entries 89
Mean 158.8
Std Dev 0

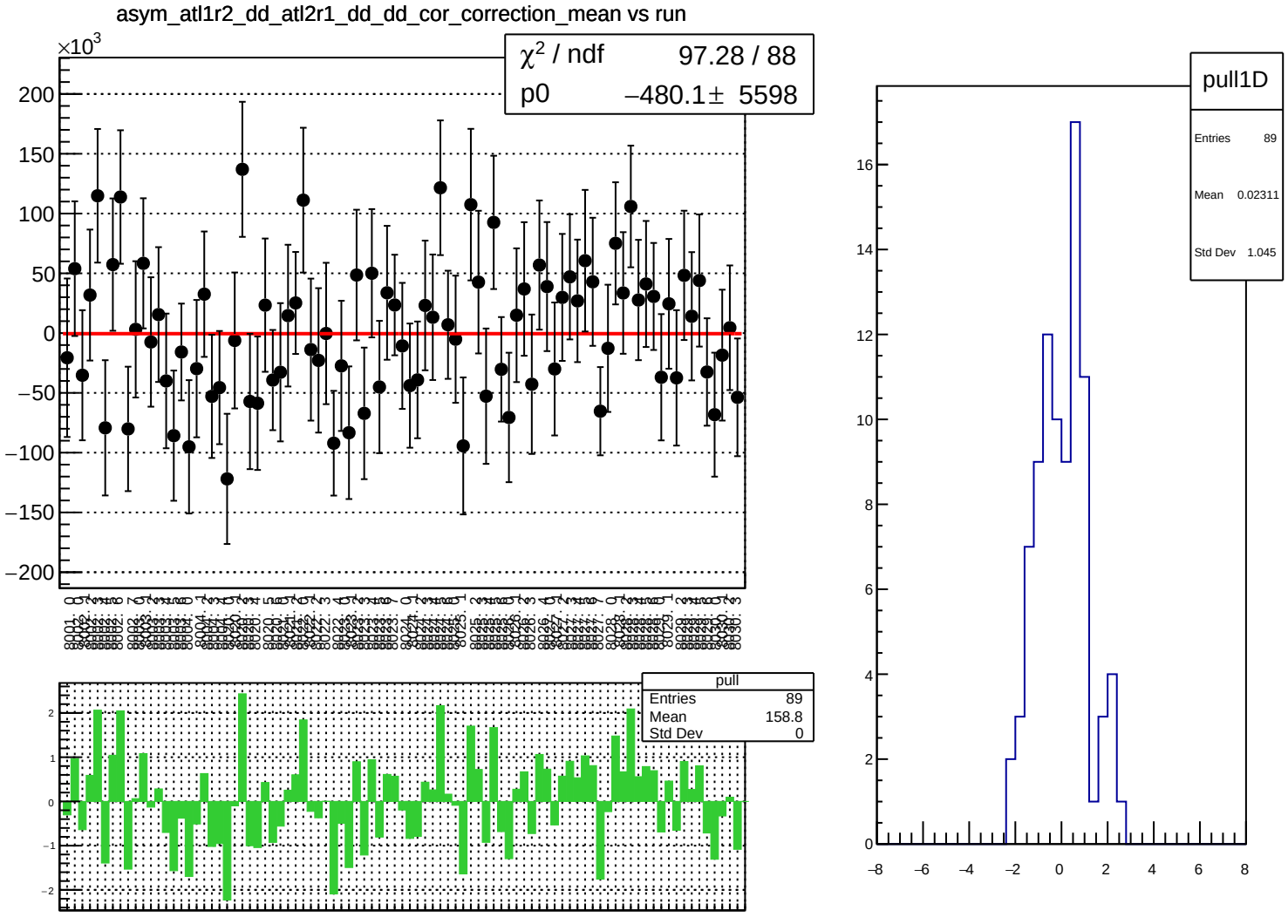

pull1D
Entries 89
Mean 0.02311
Std Dev 1.045

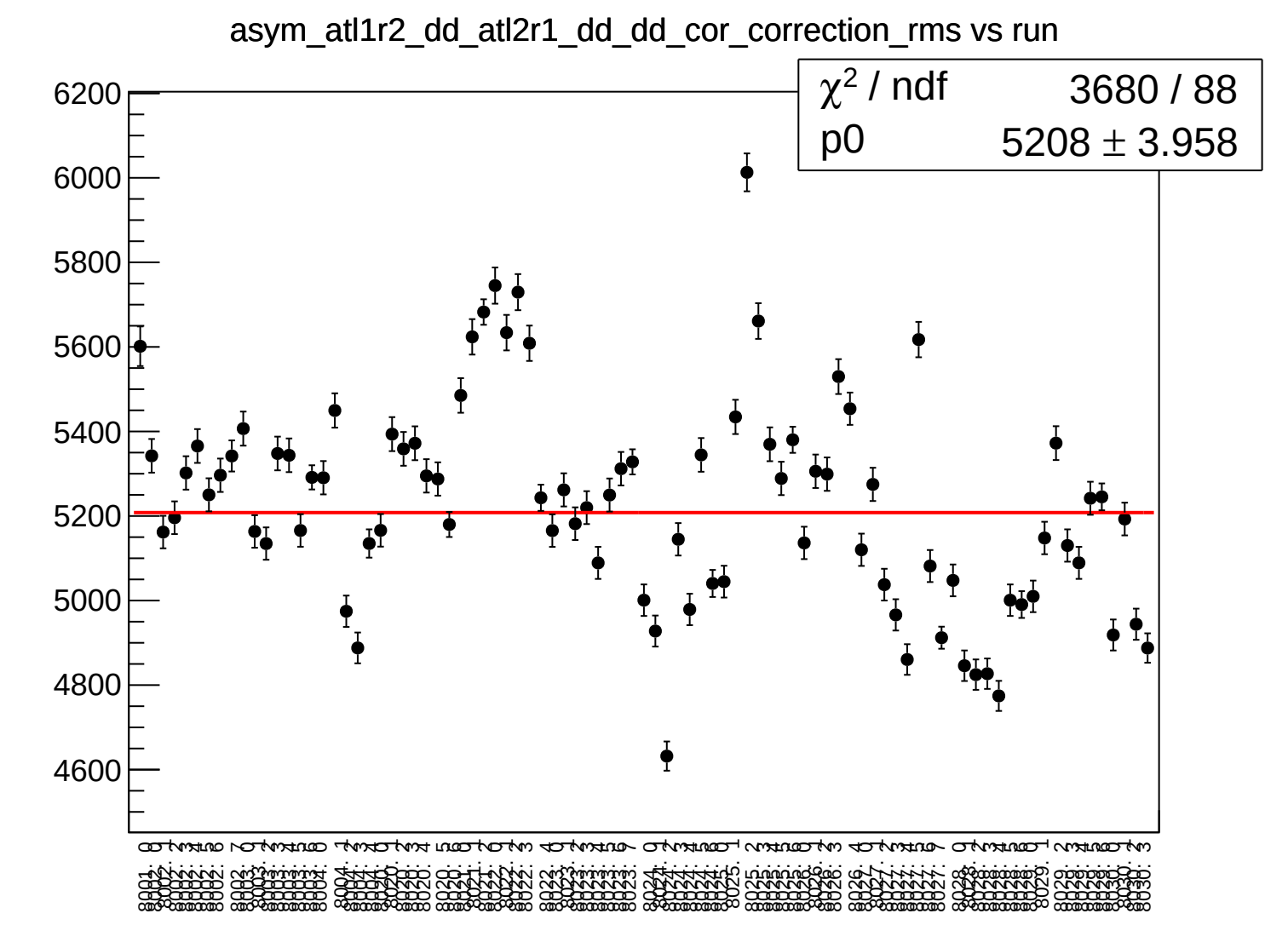

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_rms vs run
χ² / ndf 3680 / 88
p0 5208 ± 3.958
6200
6000
5800
5600
5400
5200
5000
4800
4600

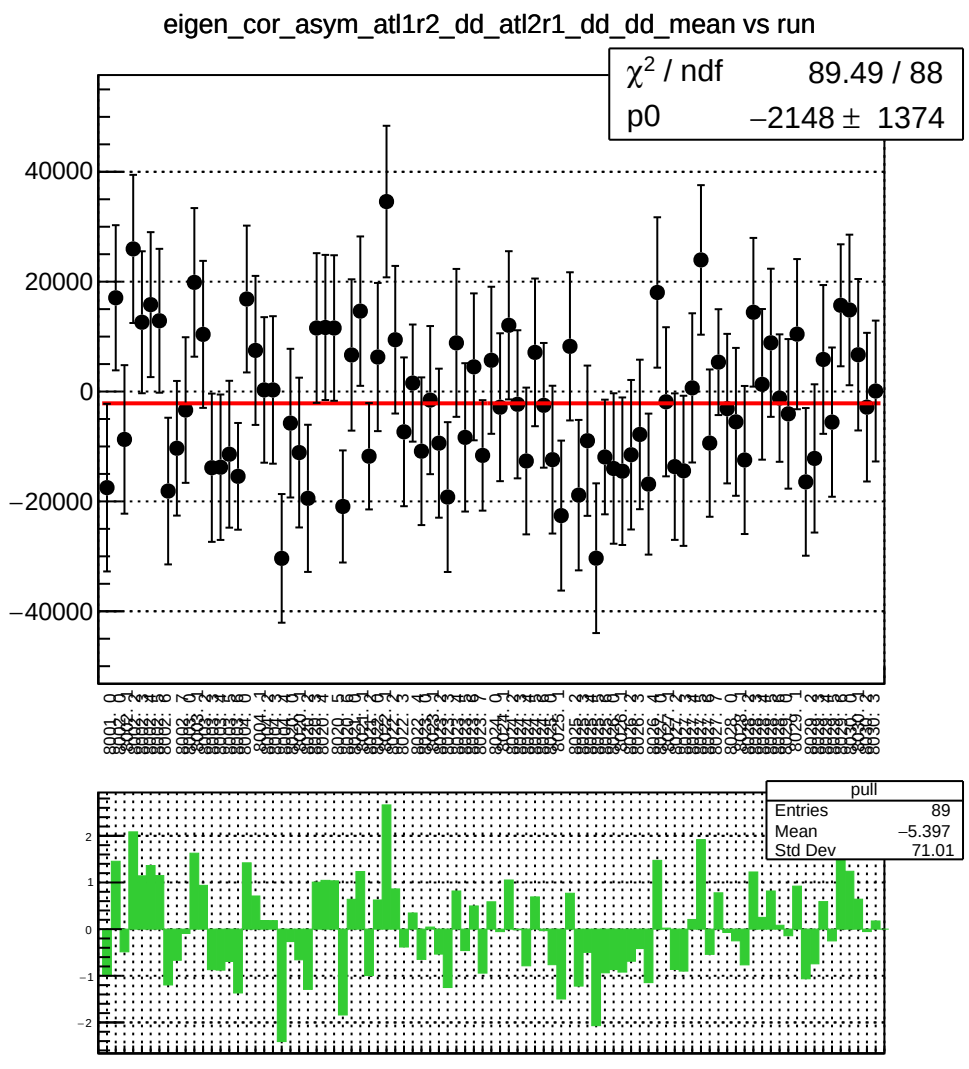

cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 89.49 / 88
p0 −2148 ± 1374
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −5.397
Std Dev 71.01
2
1
0
−1
−2

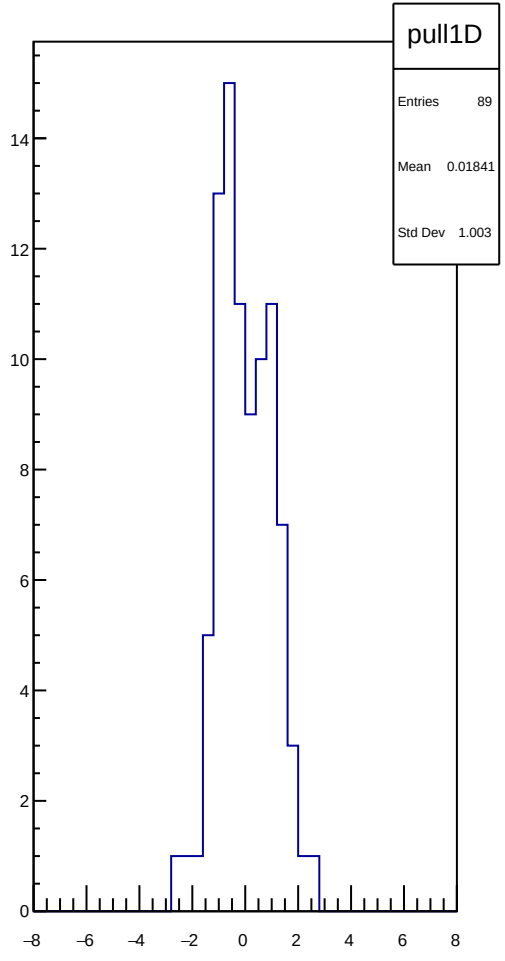

pull1D
Entries 89
Mean 0.01841
Std Dev 1.003
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

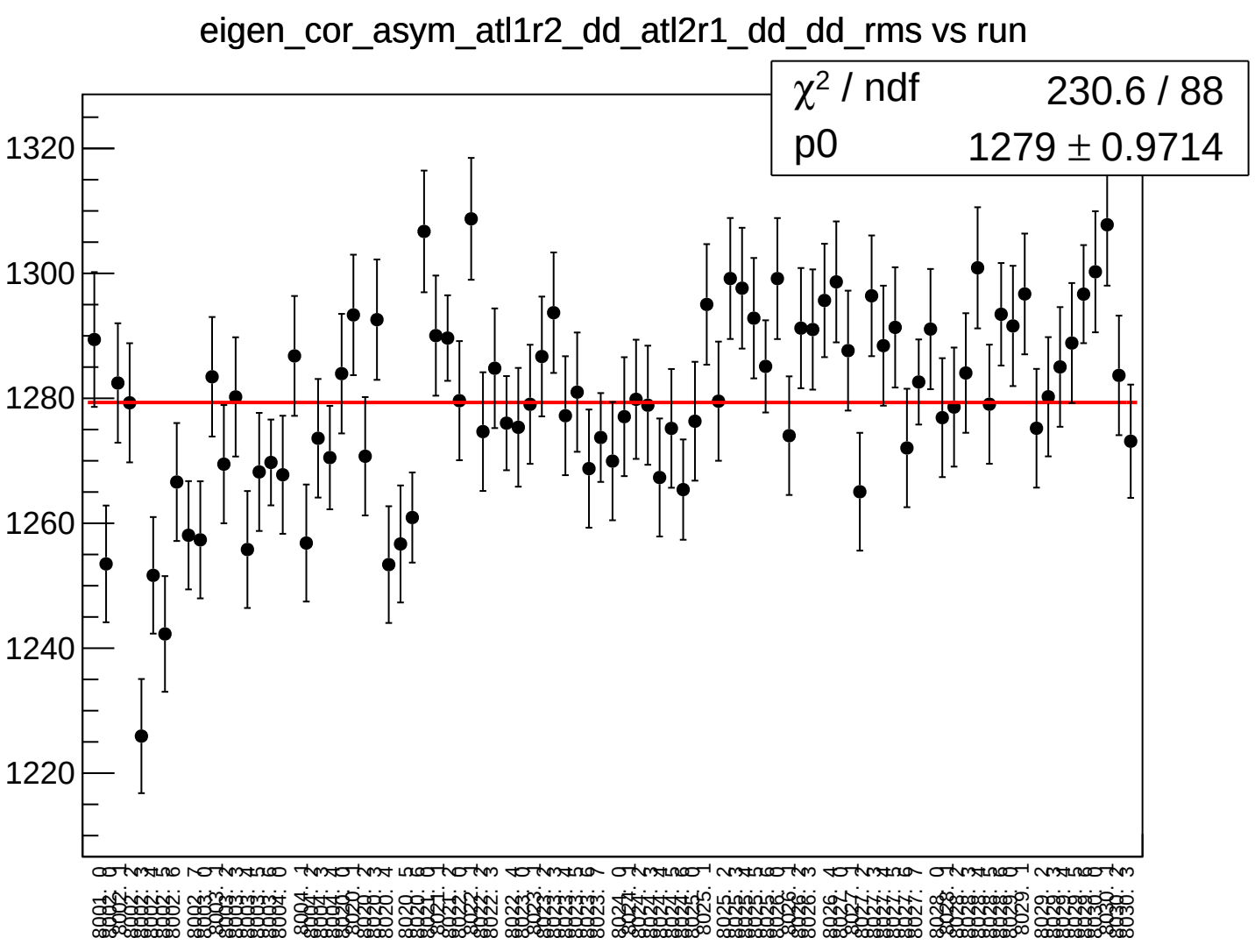

cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 230.6 / 88
p0 1279 ± 0.9714
1320
1300
1280
1260
1240
1220

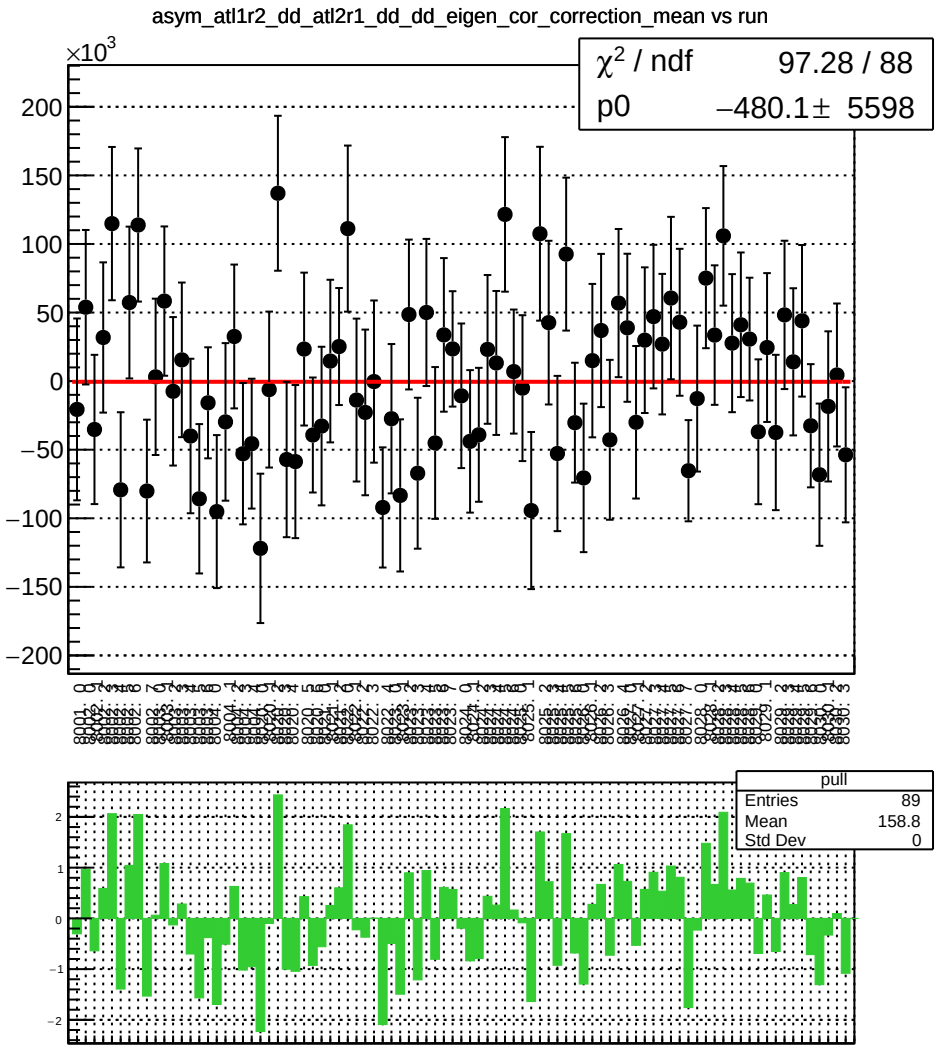

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_mean vs run
×10^3
χ² / ndf 97.28 / 88
p0 −480.1± 5598
pull
Entries 89
Mean 158.8
Std Dev 0
pull1D
Entries 89
Mean 0.02311
Std Dev 1.045

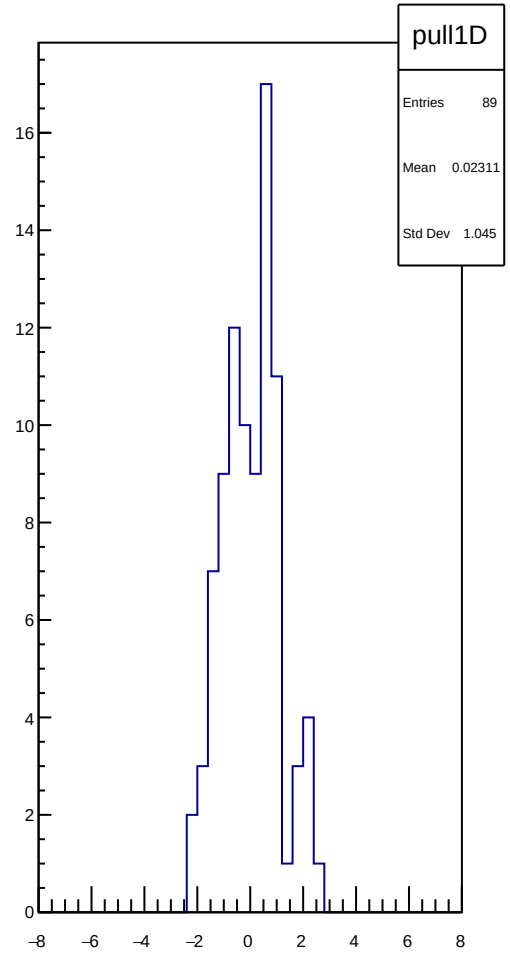

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_rms vs run
χ² / ndf 3680 / 88
p0 5208 ± 3.958
6200
6000
5800
5600
5400
5200
5000
4800
4600

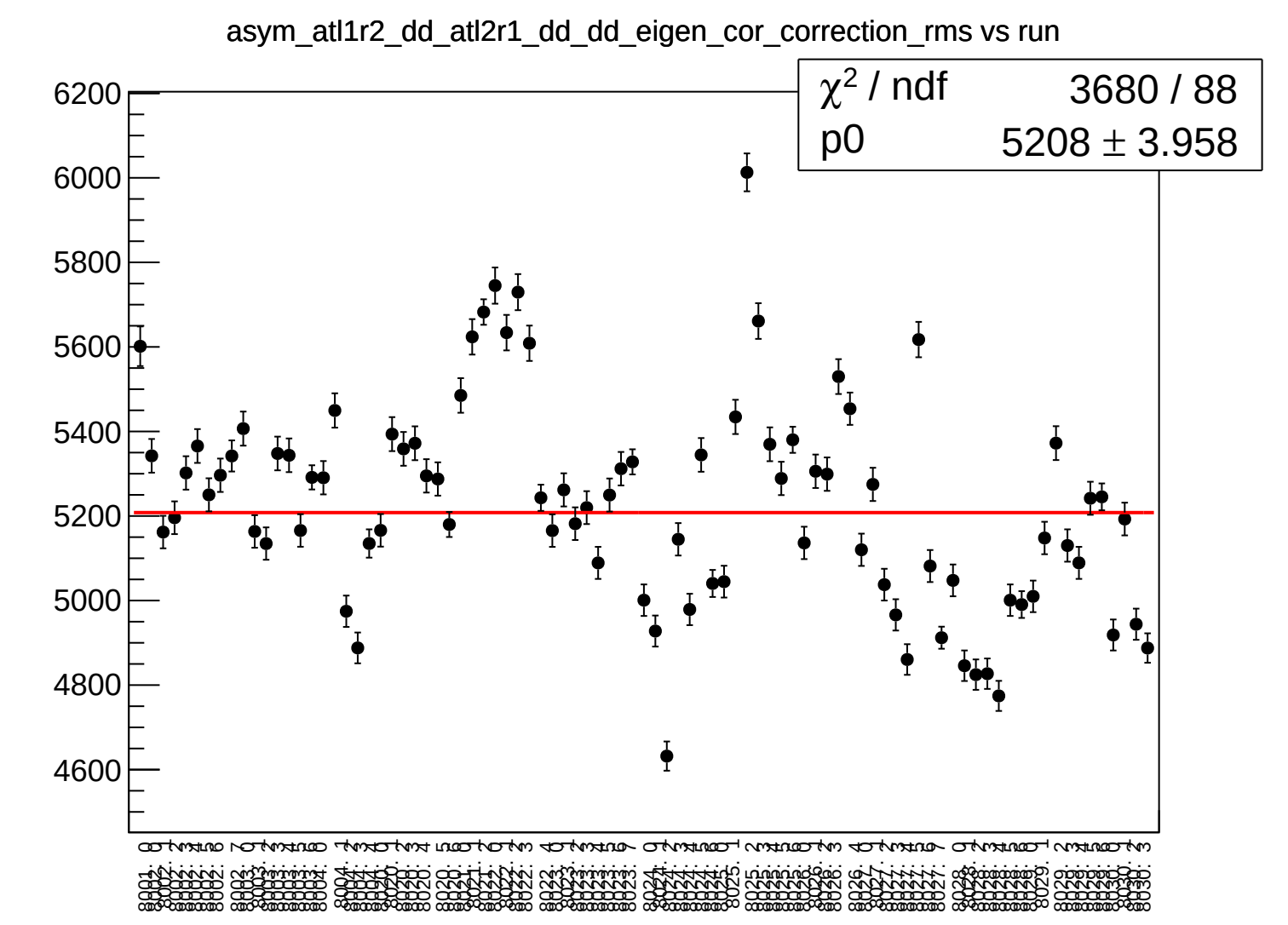

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 89.49 / 88
p0 −2148 ± 1374
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −5.397
Std Dev 71.01
2
1
0
−1
−2

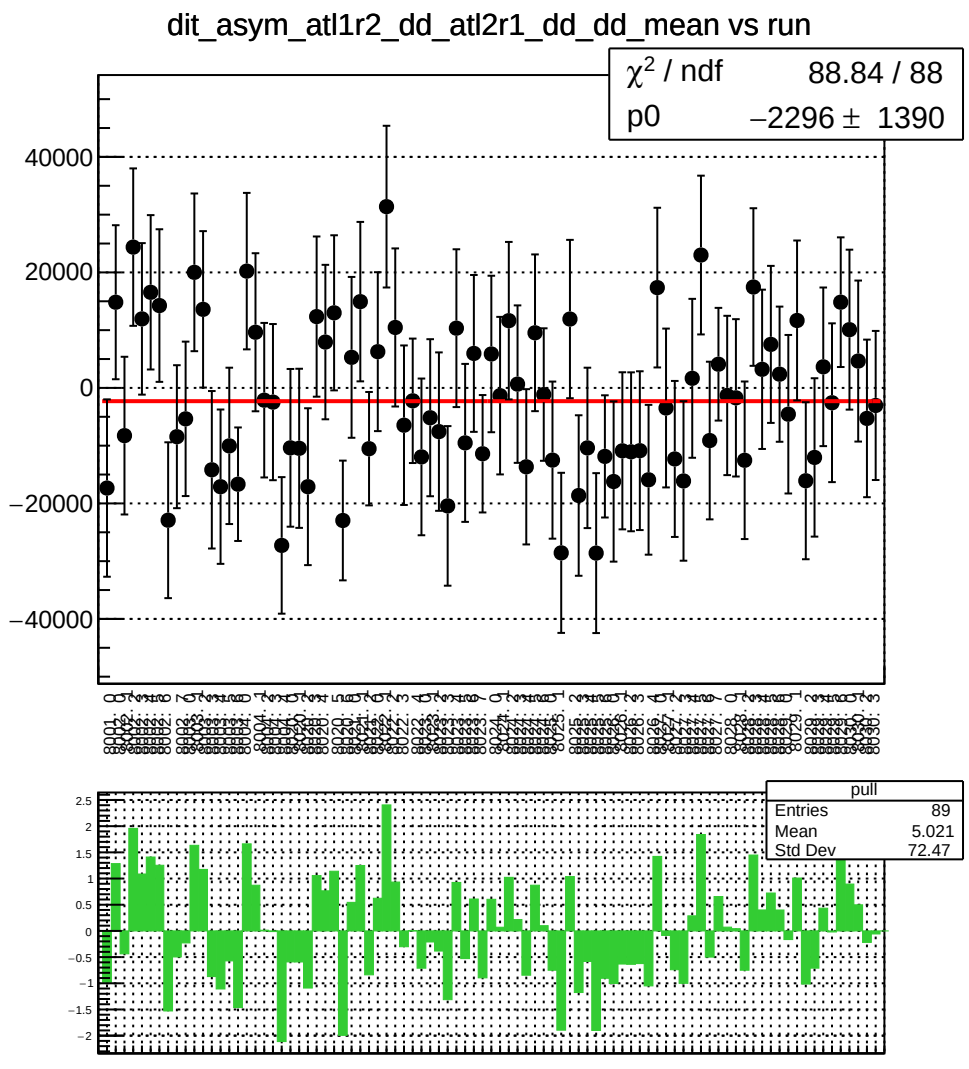

pull1D
Entries 89
Mean 0.01841
Std Dev 1.003
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

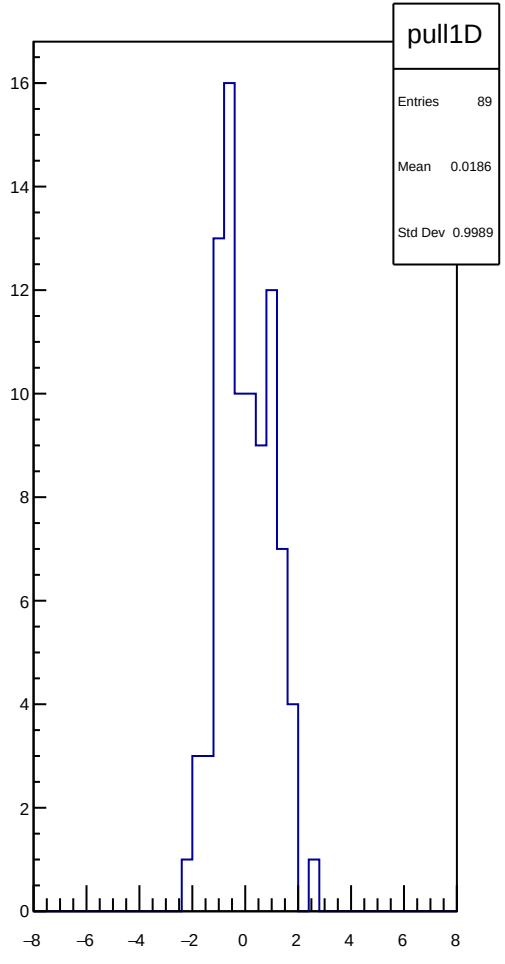

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 230.6 / 88
p0 1279 ± 0.9714
1320
1300
1280
1260
1240
1220

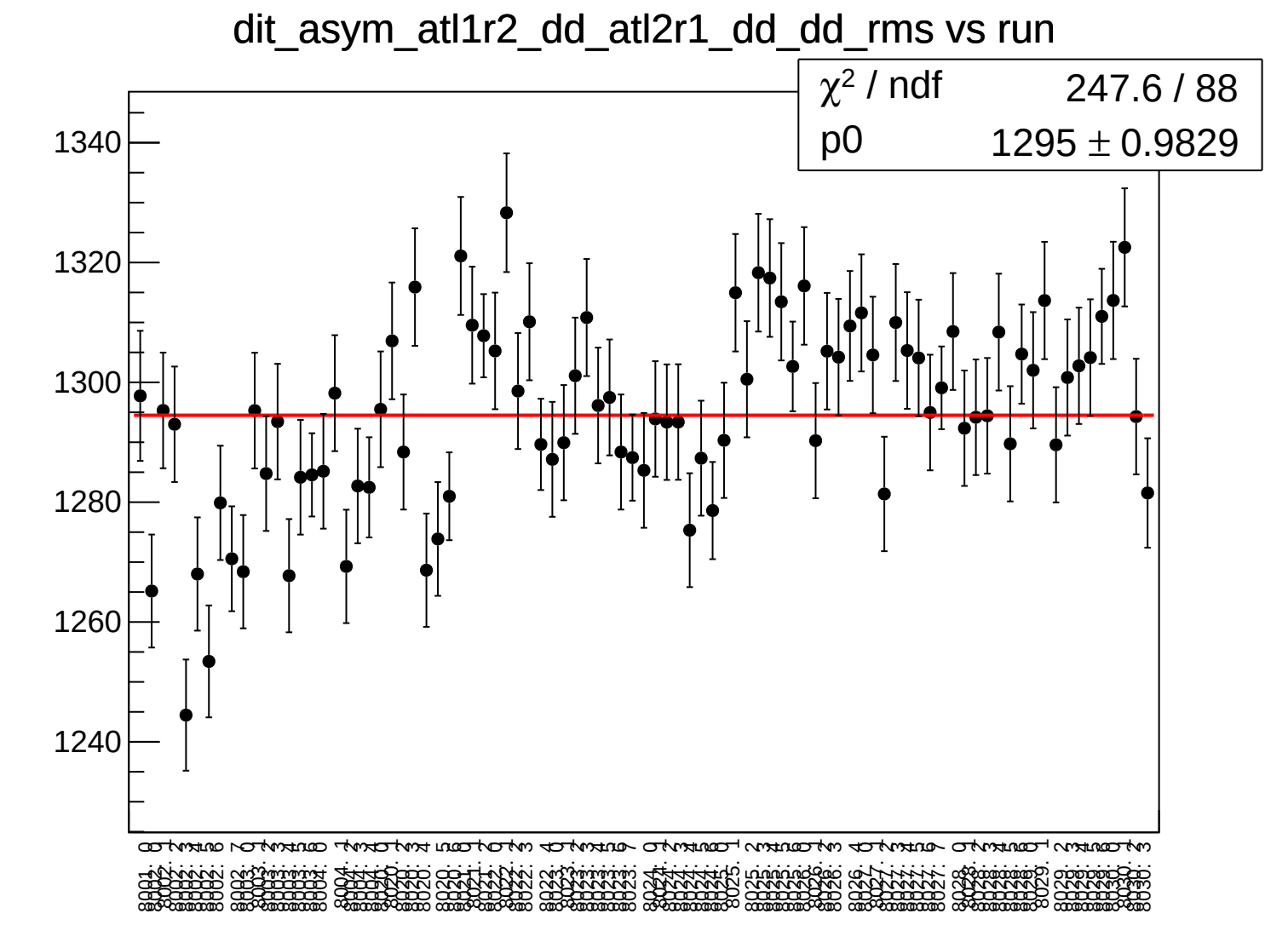

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 97.28 / 88
p0 −480.1± 5598
pull
Entries 89
Mean 158.8
Std Dev 0

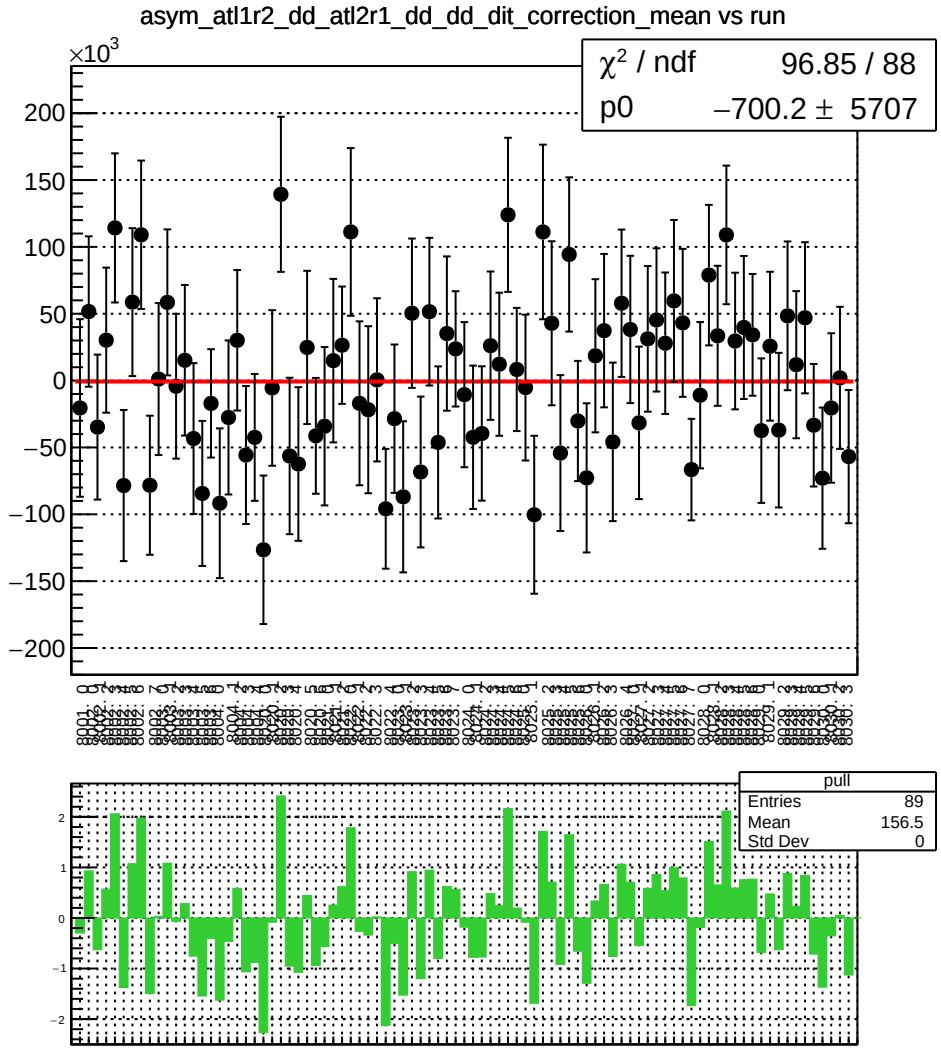

pull1D
Entries 89
Mean 0.02311
Std Dev 1.045

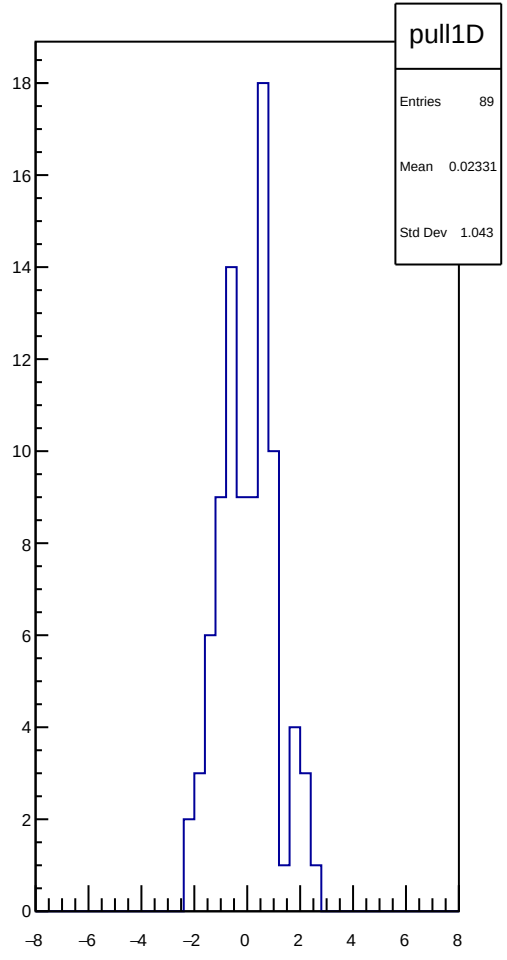

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 3680 / 88
p0 5208 ± 3.958
6200
6000
5800
5600
5400
5200
5000
4800
4600

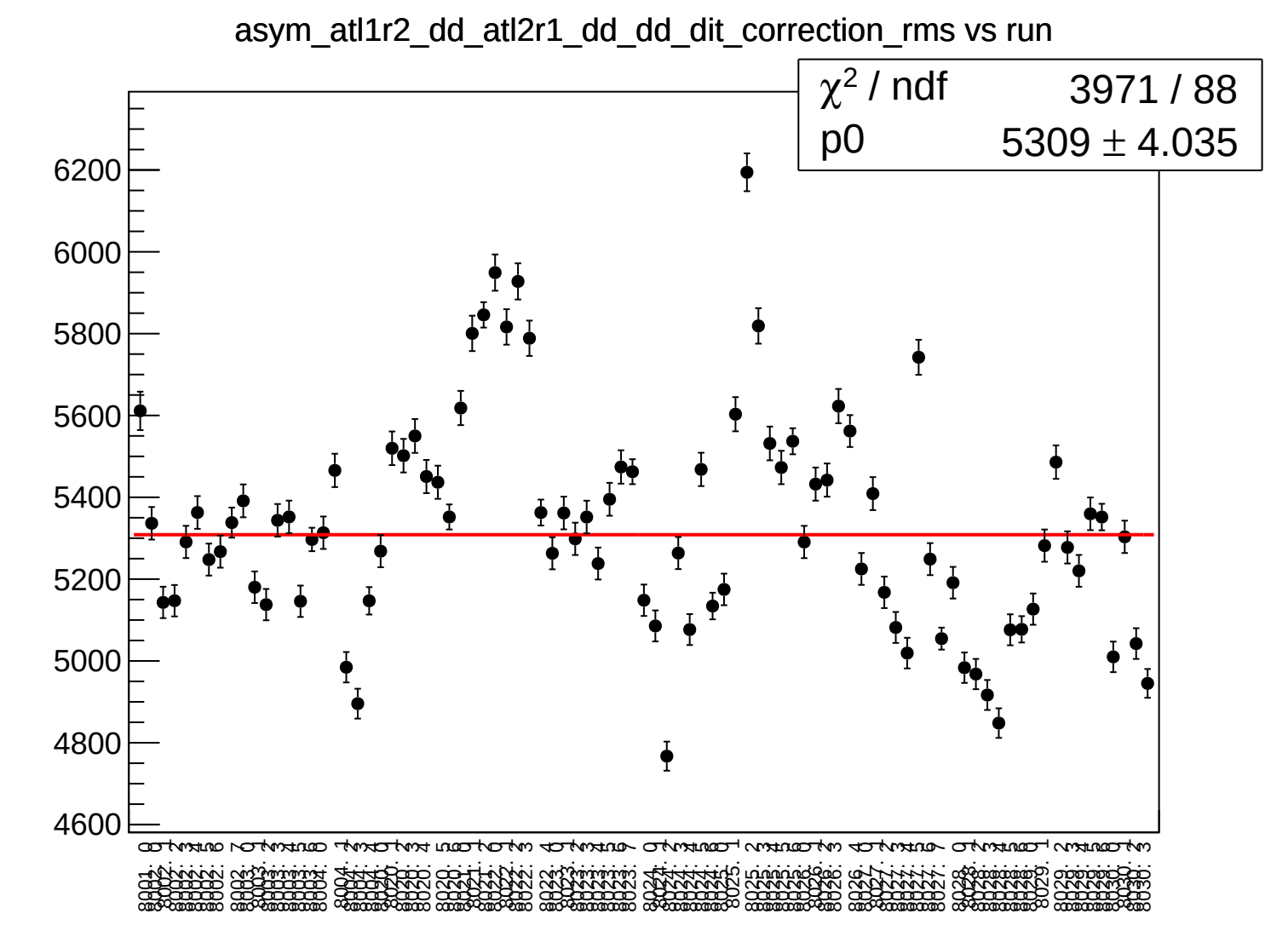

dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 88.84 / 88
p0 −2296 ± 1390
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 5.021
Std Dev 72.47
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

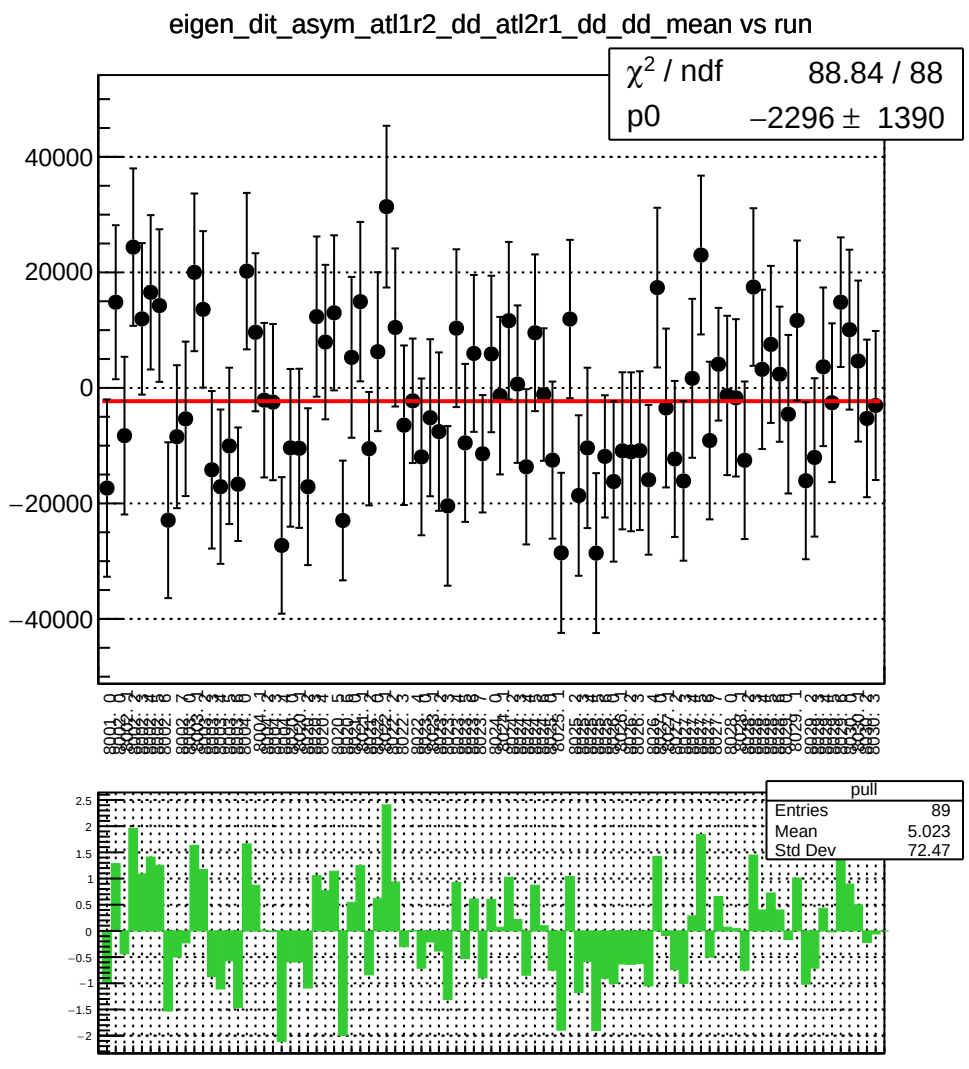

pull1D
Entries 89
Mean 0.0186
Std Dev 0.9989
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

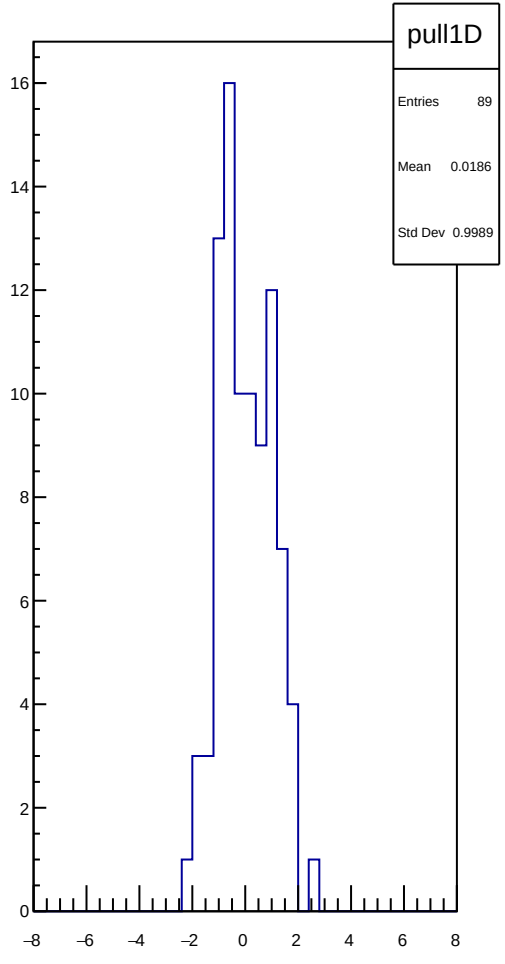

dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 247.6 / 88
p0 1295 ± 0.9829
1340
1320
1300
1280
1260
1240

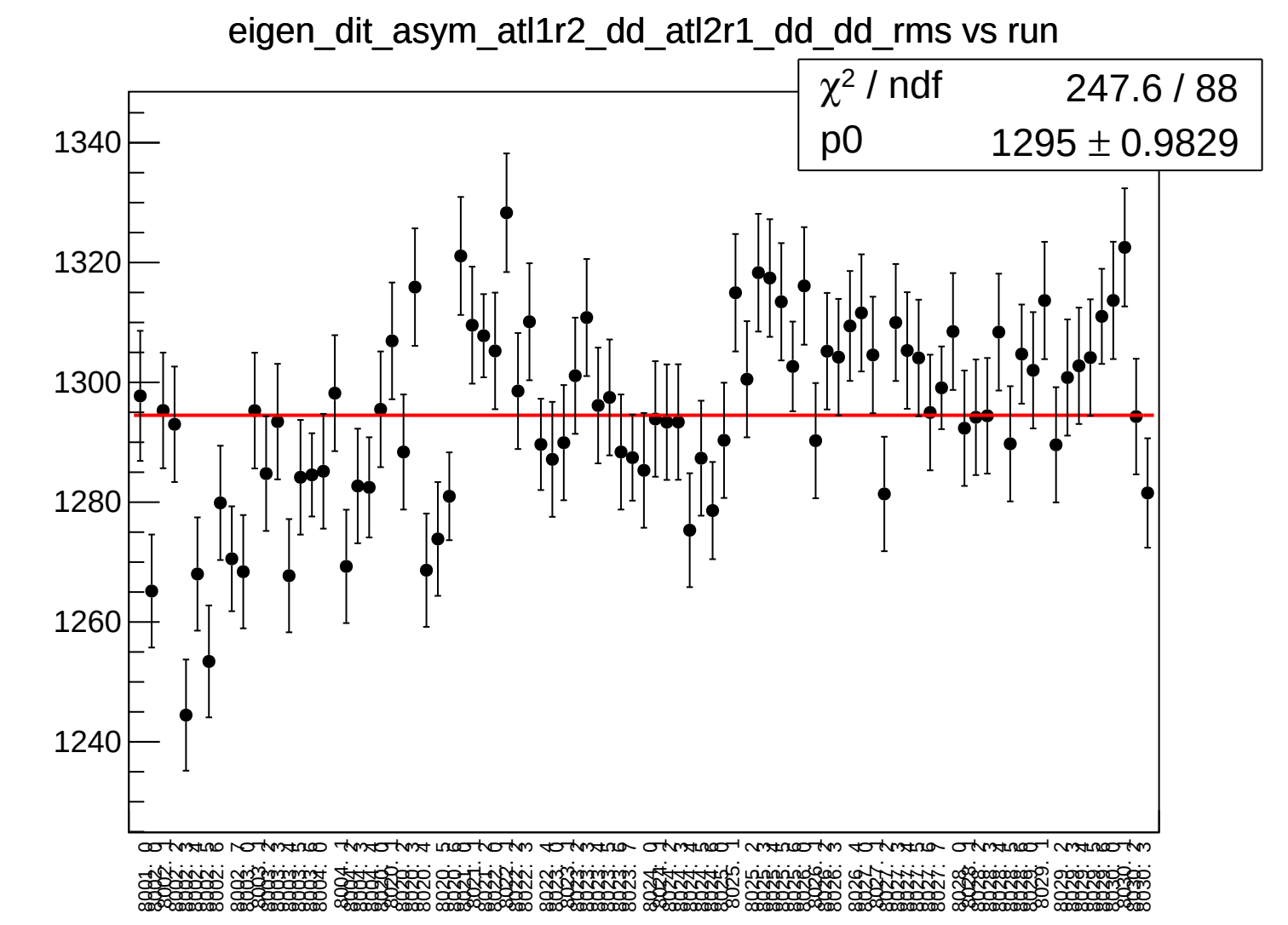

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_mean vs run
×10^3
χ² / ndf 96.85 / 88
p0 −700.2 ± 5707
pull
Entries 89
Mean 156.5
Std Dev 0

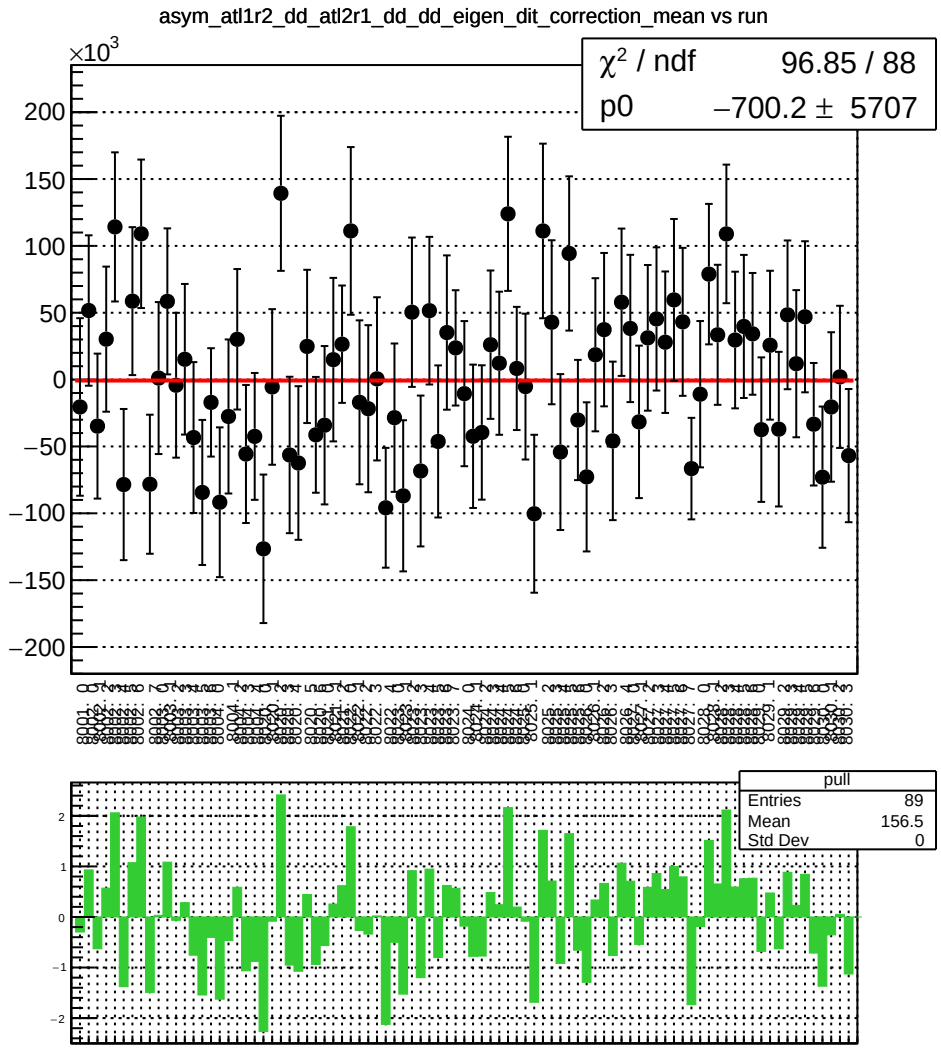

pull1D
Entries 89
Mean 0.02331
Std Dev 1.043

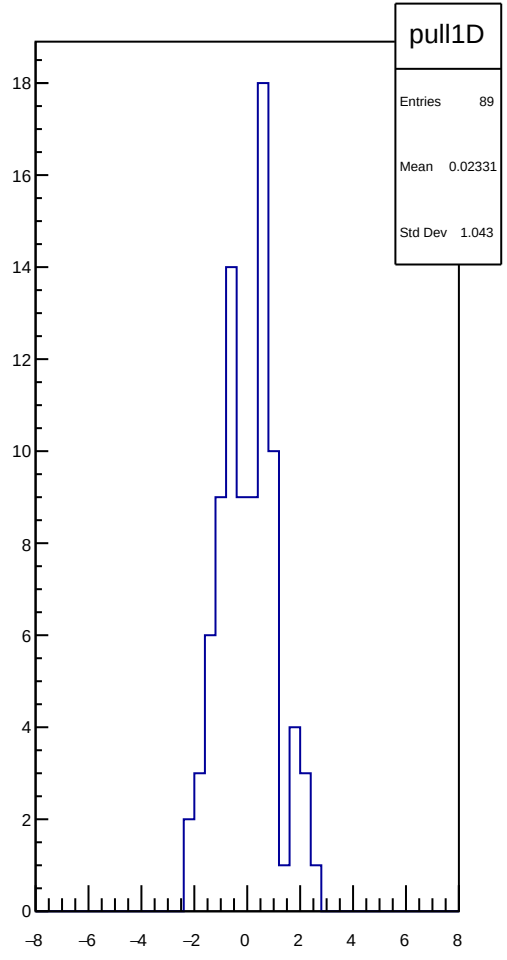

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_rms vs run
χ² / ndf 3971 / 88
p0 5309 ± 4.035
6200
6000
5800
5600
5400
5200
5000
4800
4600

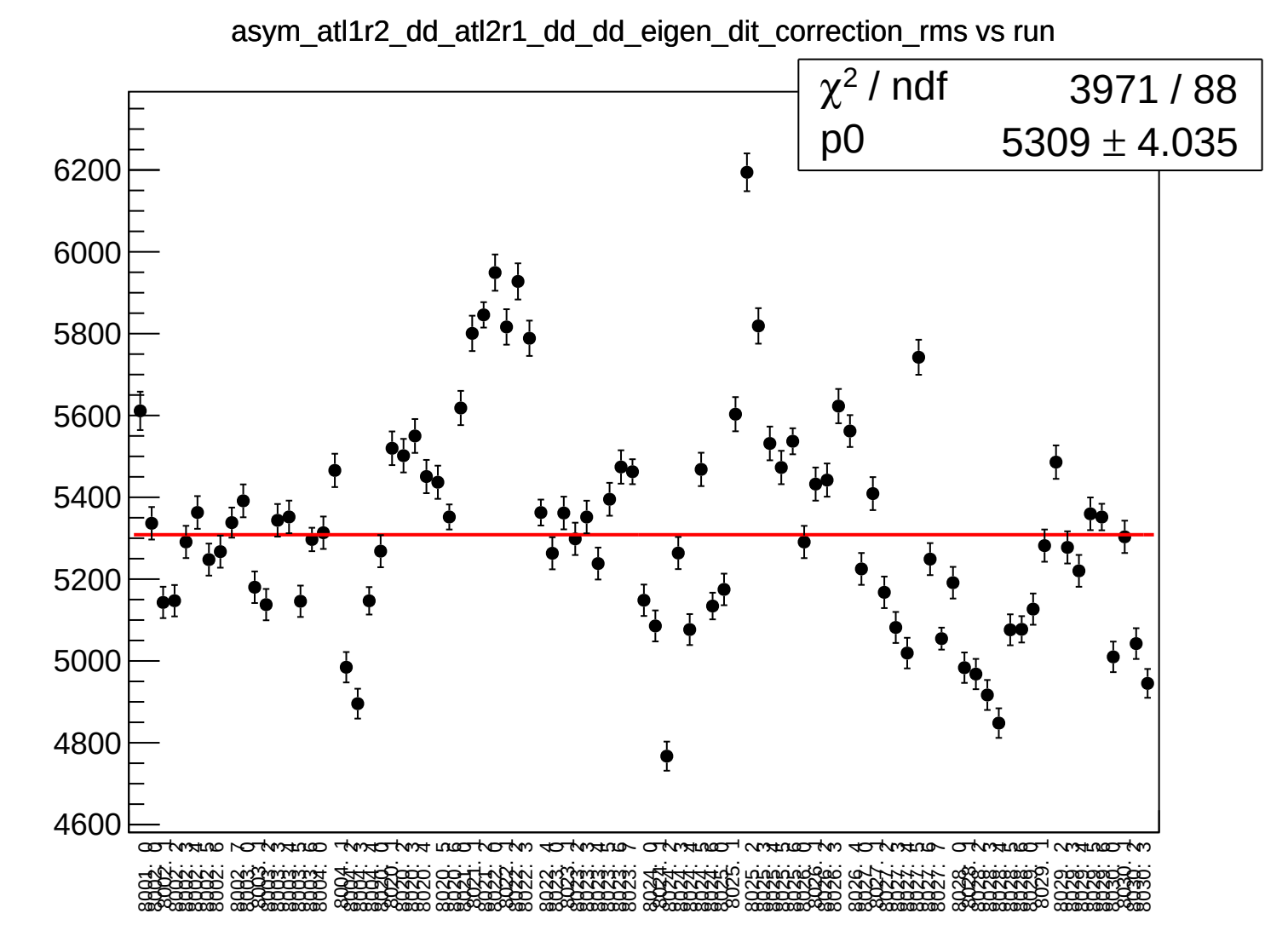

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 88.84 / 88
p0 −2296 ± 1390
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 5.023
Std Dev 72.47
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

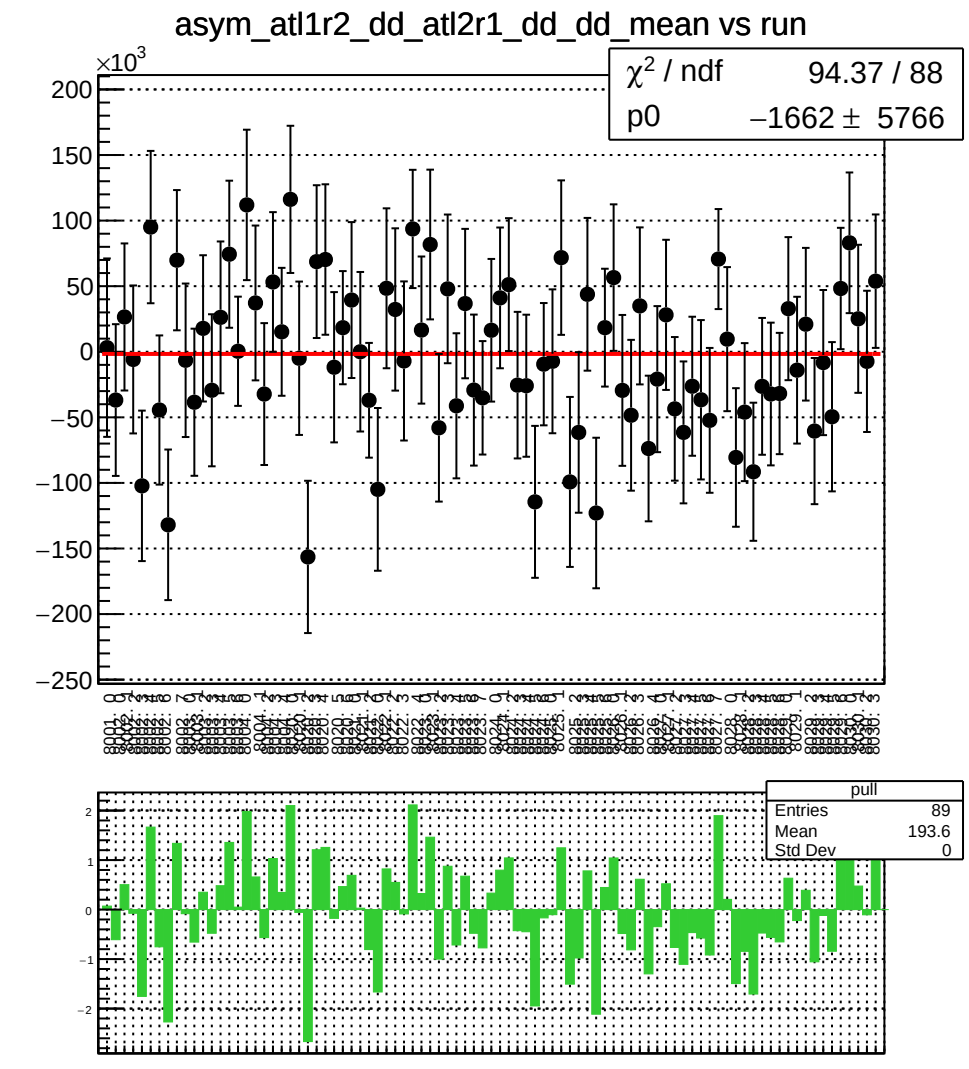

pull1D
Entries 89
Mean 0.0186
Std Dev 0.9989
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

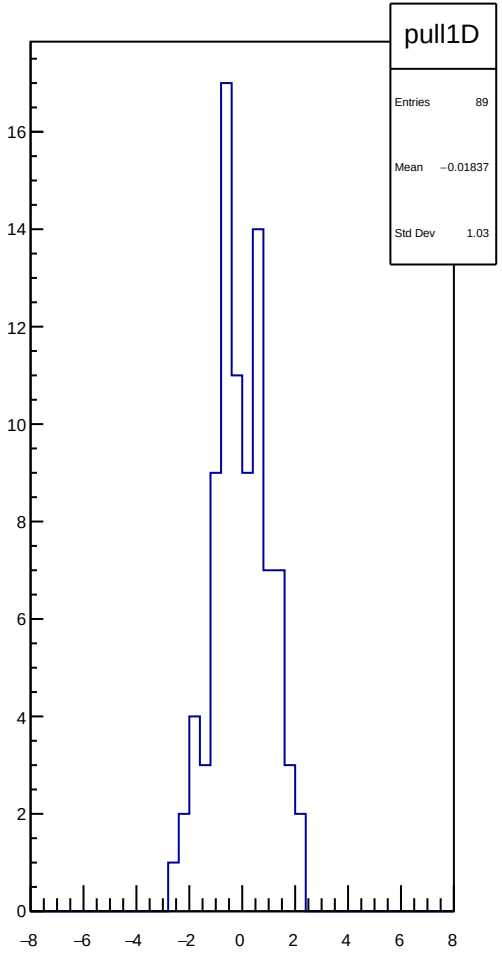

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 247.6 / 88
p0 1295 ± 0.9829
1340
1320
1300
1280
1260
1240

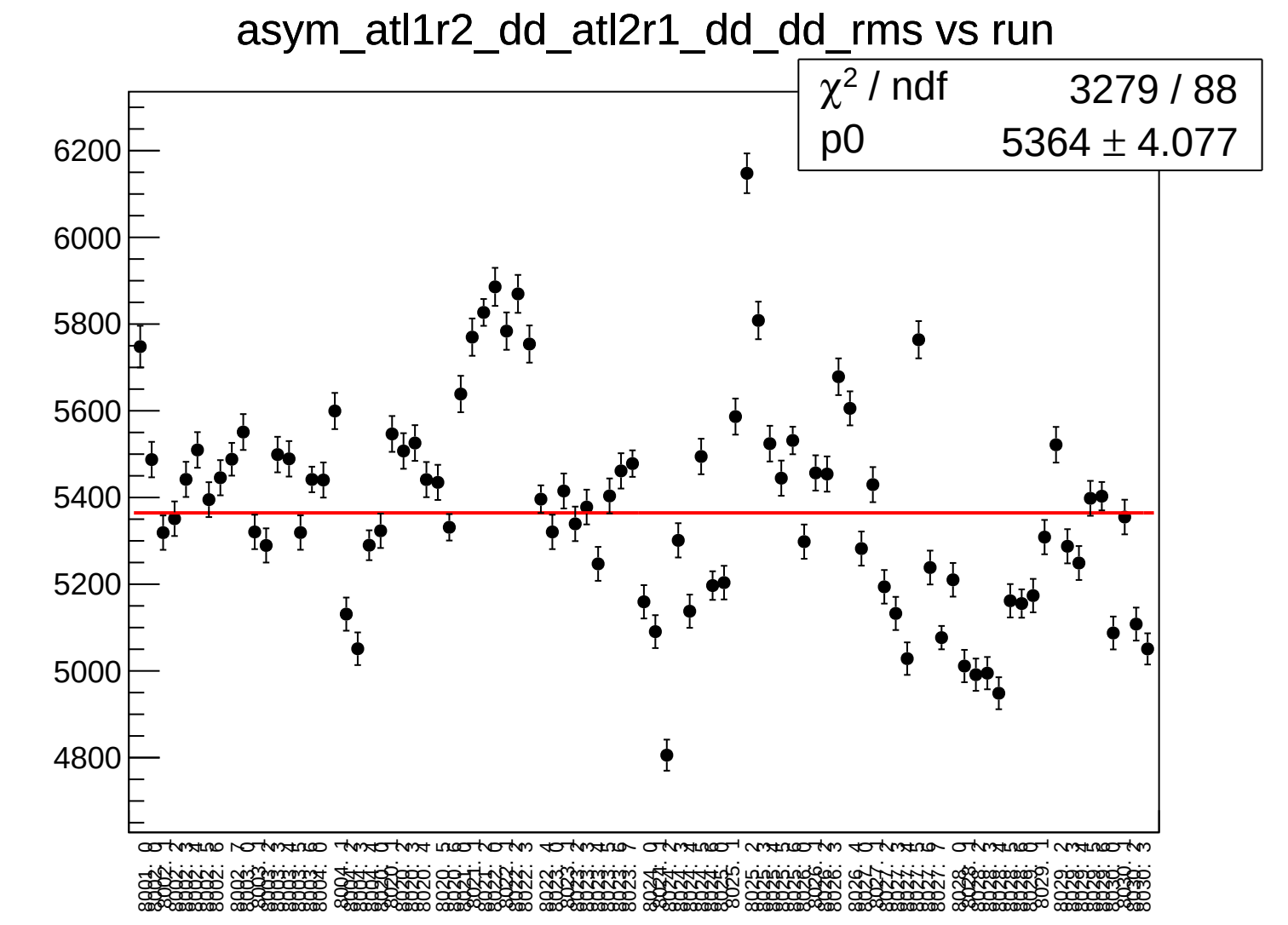

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 96.85 / 88
p0 −700.2 ± 5707
pull
Entries 89
Mean 156.5
Std Dev 0

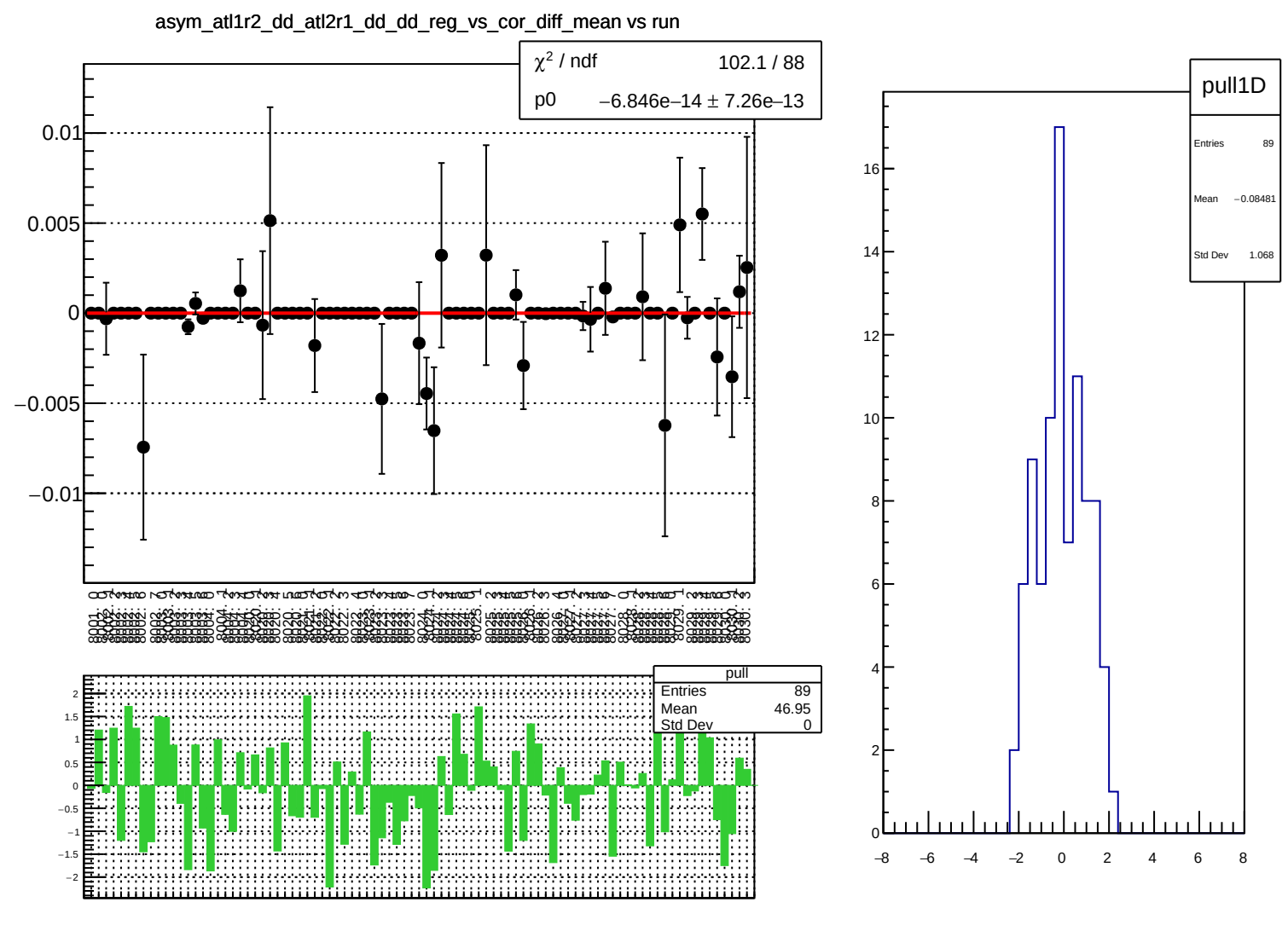

pull1D
Entries 89
Mean 0.02331
Std Dev 1.043

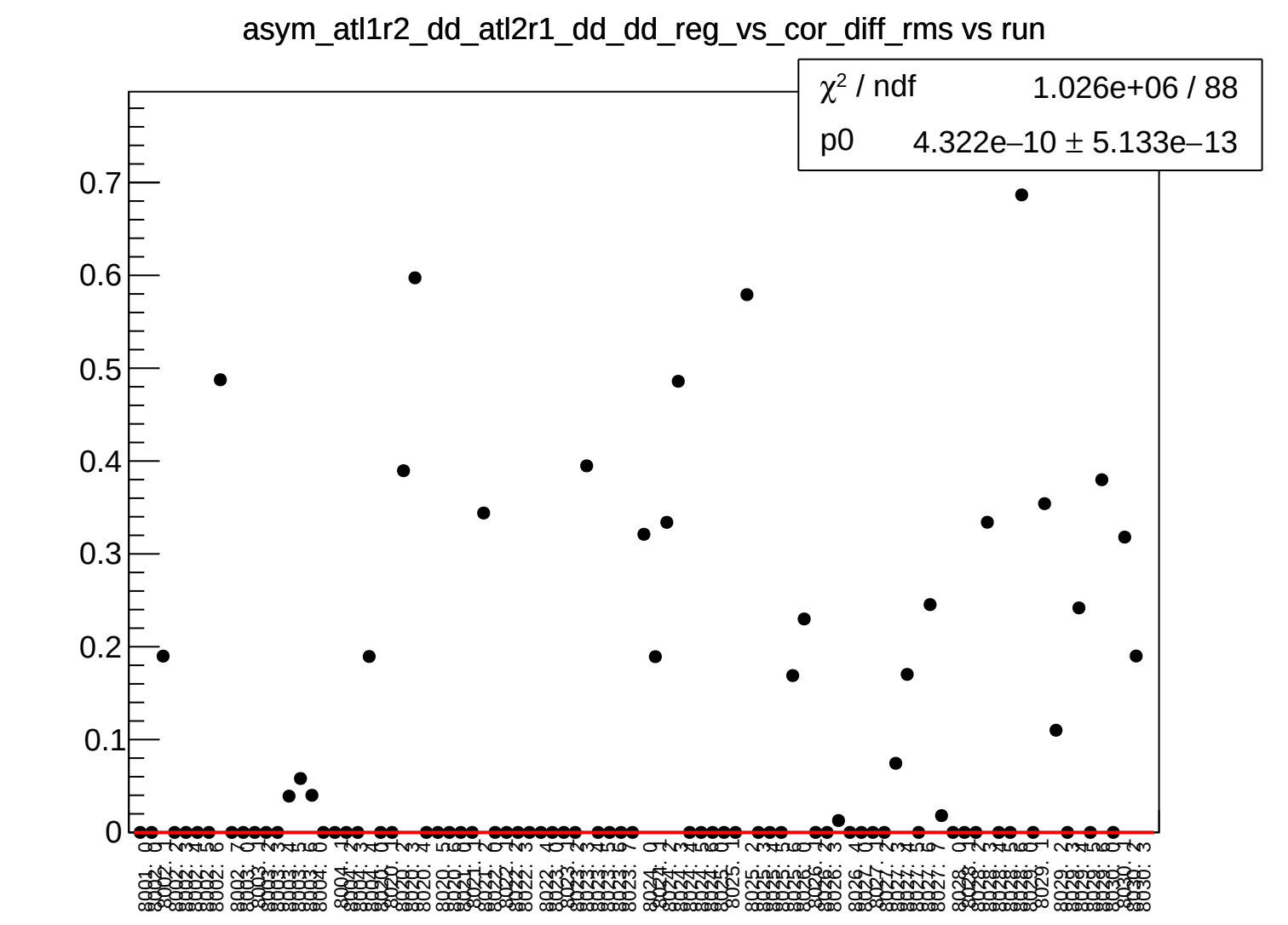

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 3971 / 88
p0 5309 ± 4.035
6200
6000
5800
5600
5400
5200
5000
4800
4600


asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
×10^3
χ² / ndf 94.37 / 88
p0 −1662 ± 5766
pull
Entries 89
Mean 193.6
Std Dev 0

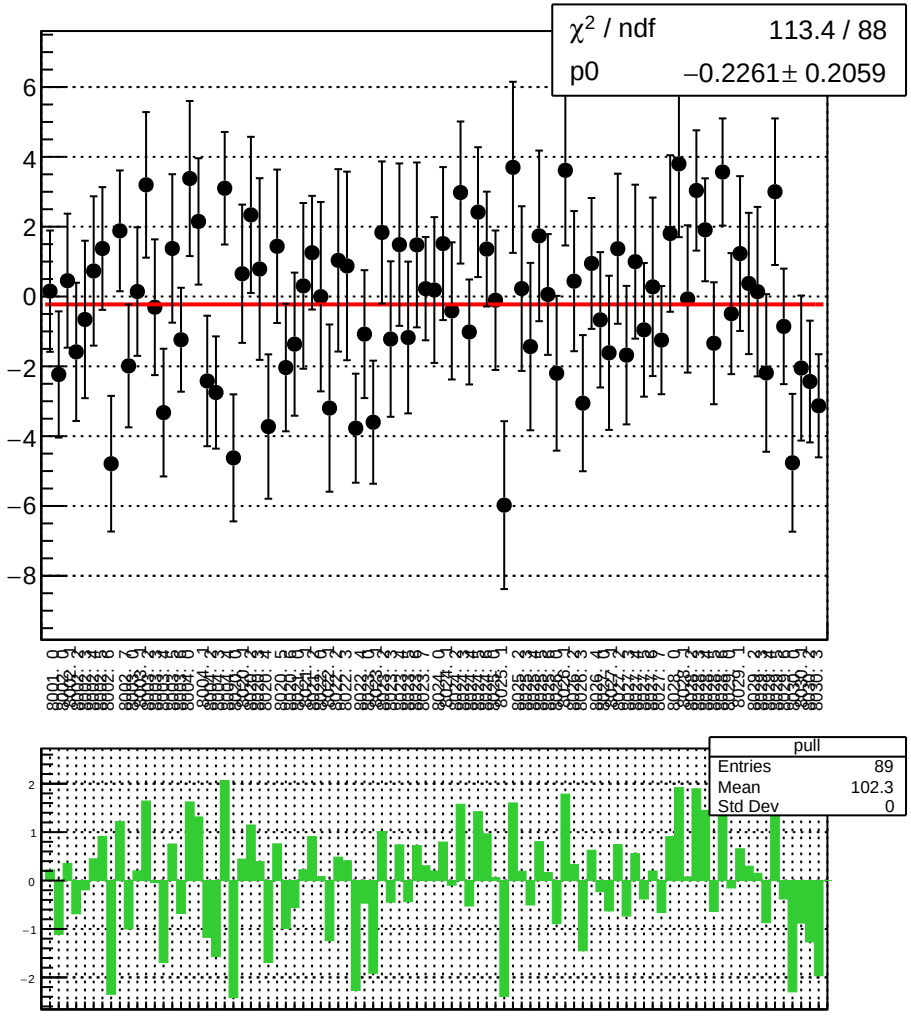

pull1D
Entries 89
Mean −0.01837
Std Dev 1.03

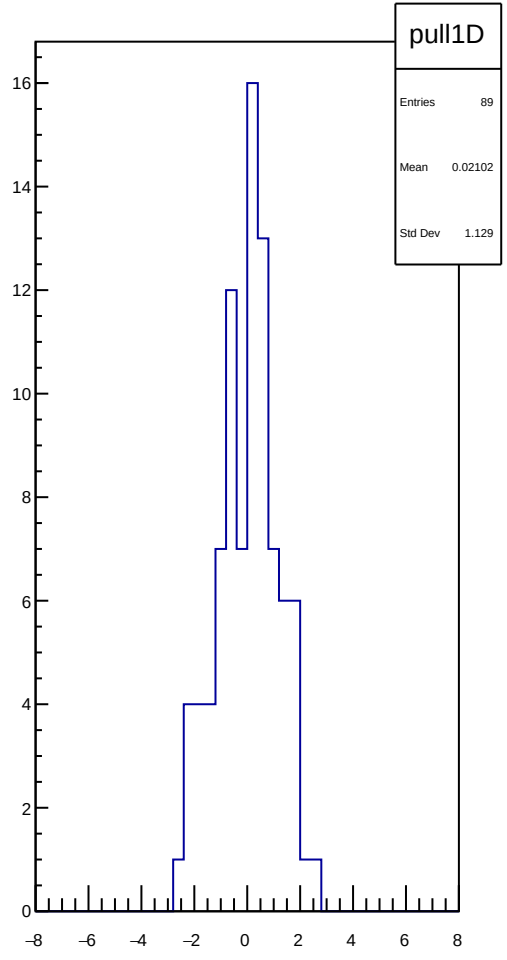

asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 3279 / 88
p0 5364 ± 4.077
6200
6000
5800
5600
5400
5200
5000
4800

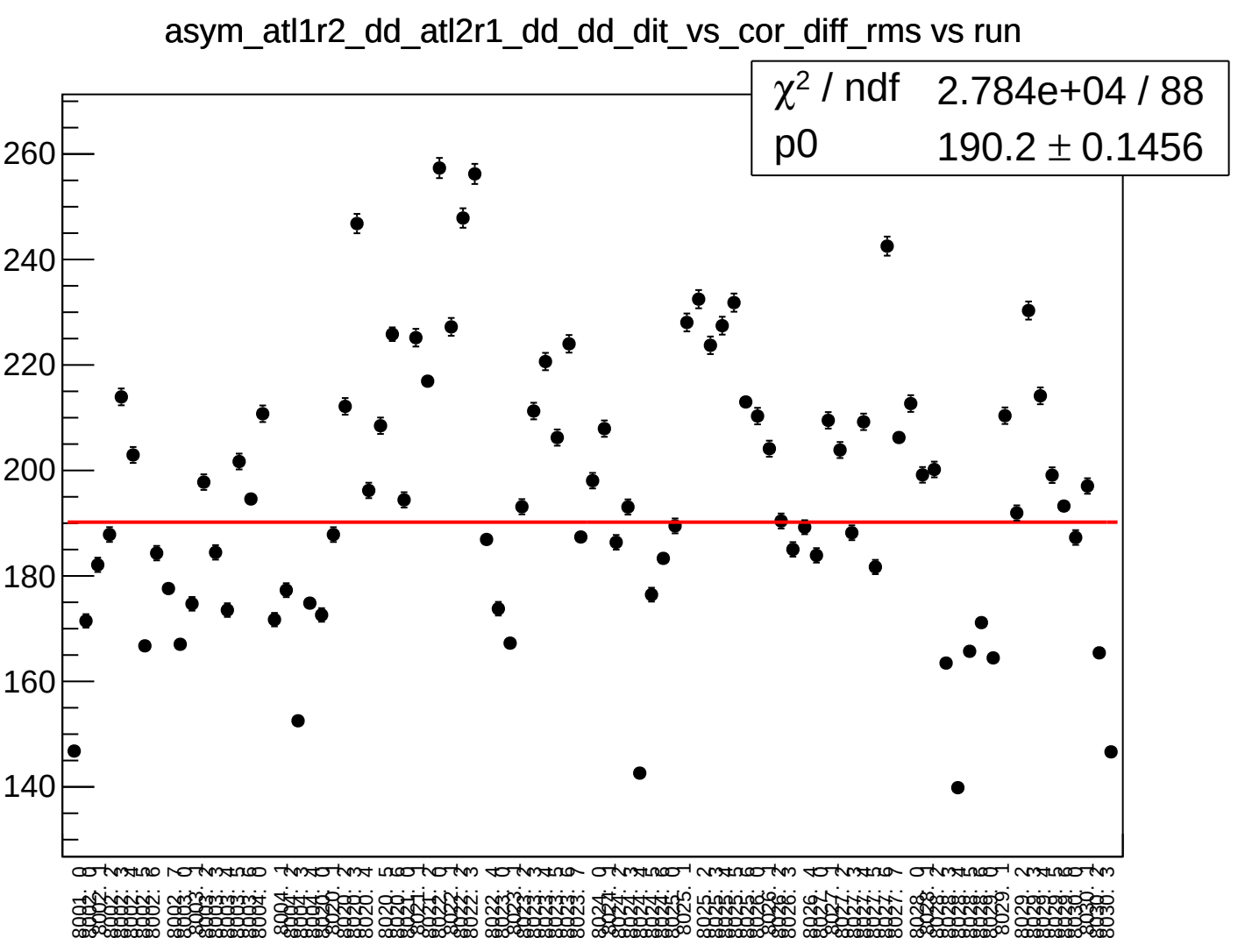

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 102.1 / 88
p0 −6.846e−14 ± 7.26e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 89
Mean 46.95
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean −0.08481
Std Dev 1.068
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

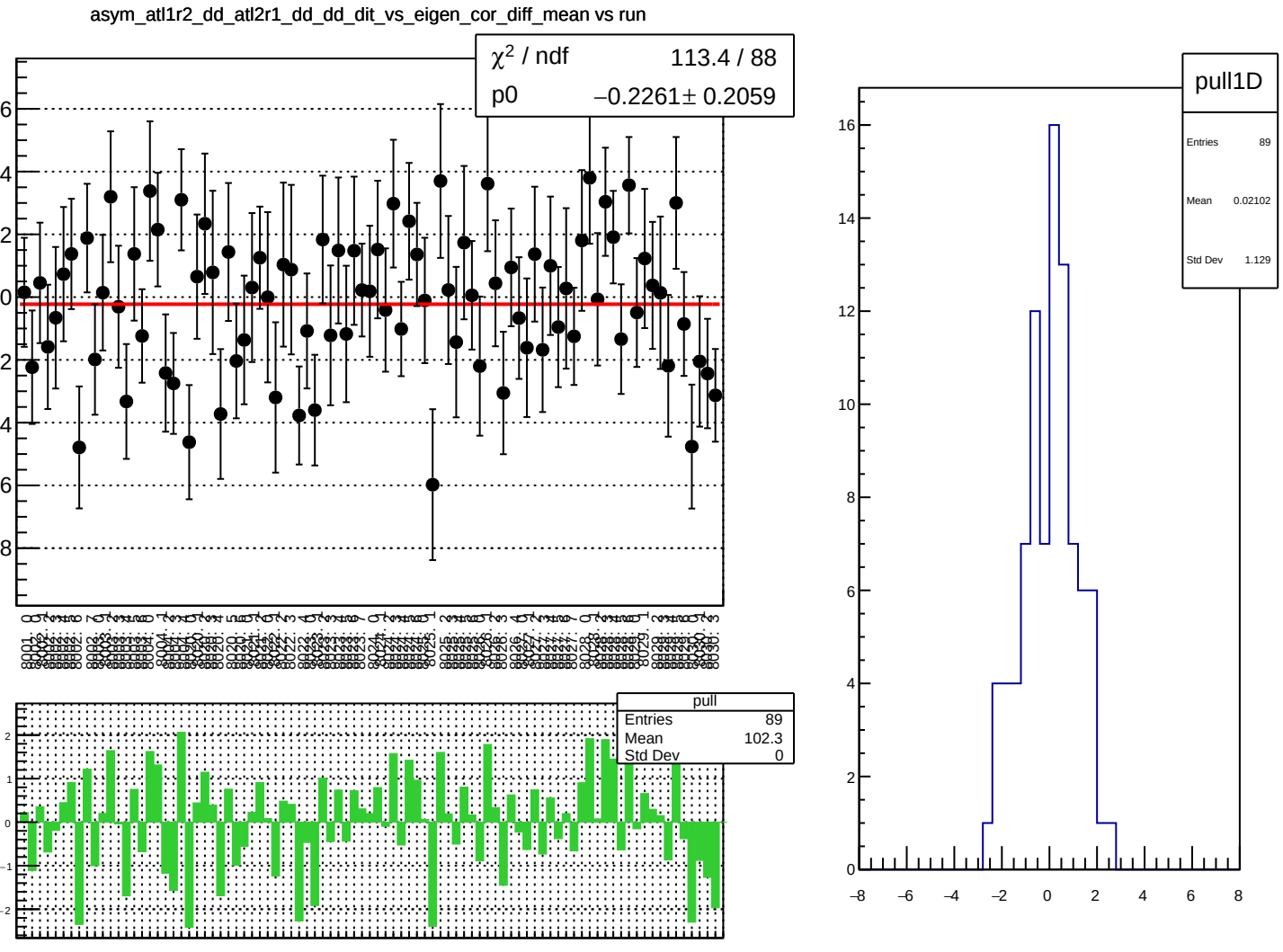

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.026e+06 / 88
p0 4.322e−10 ± 5.133e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

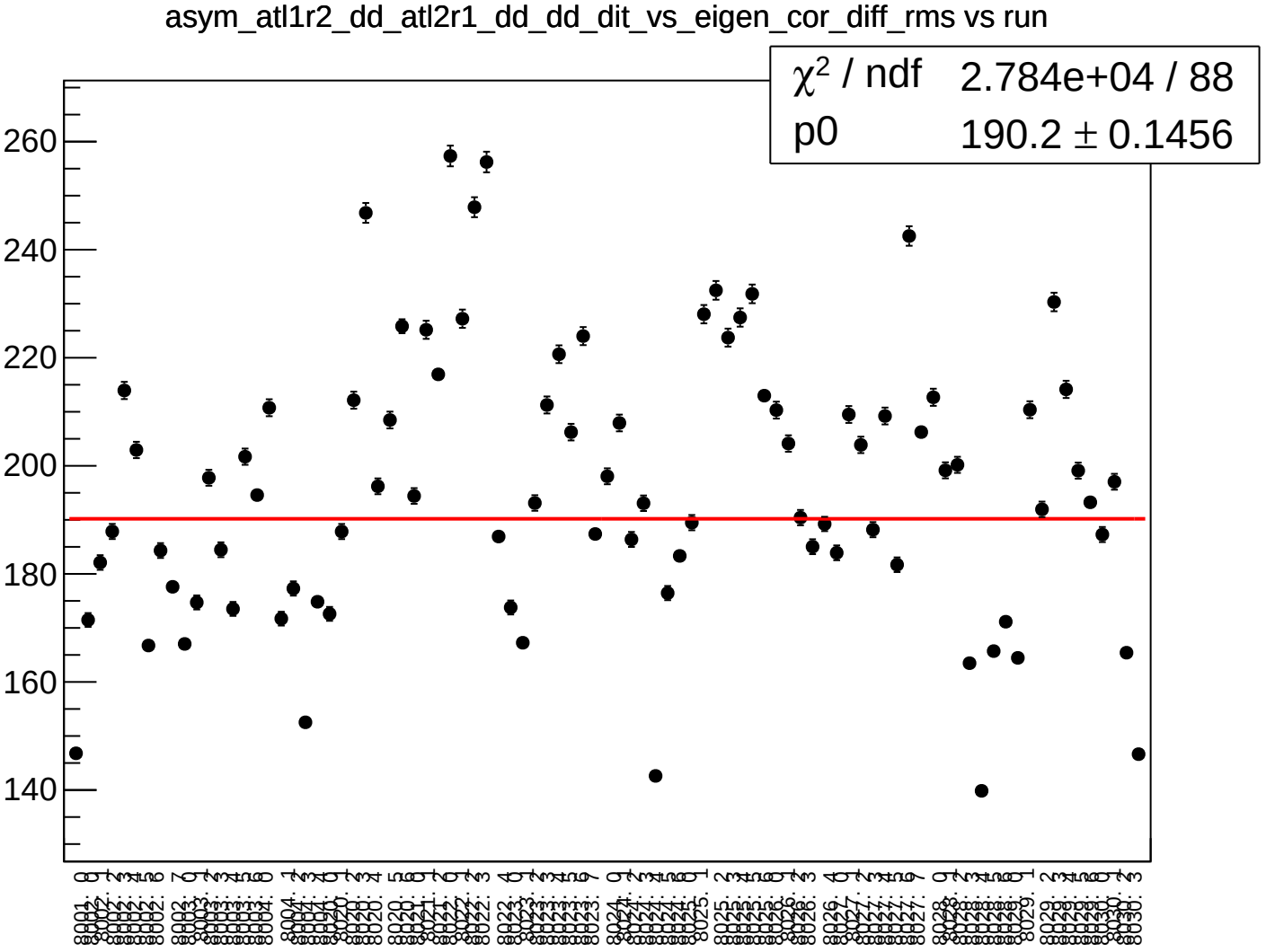
asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_mean vs run

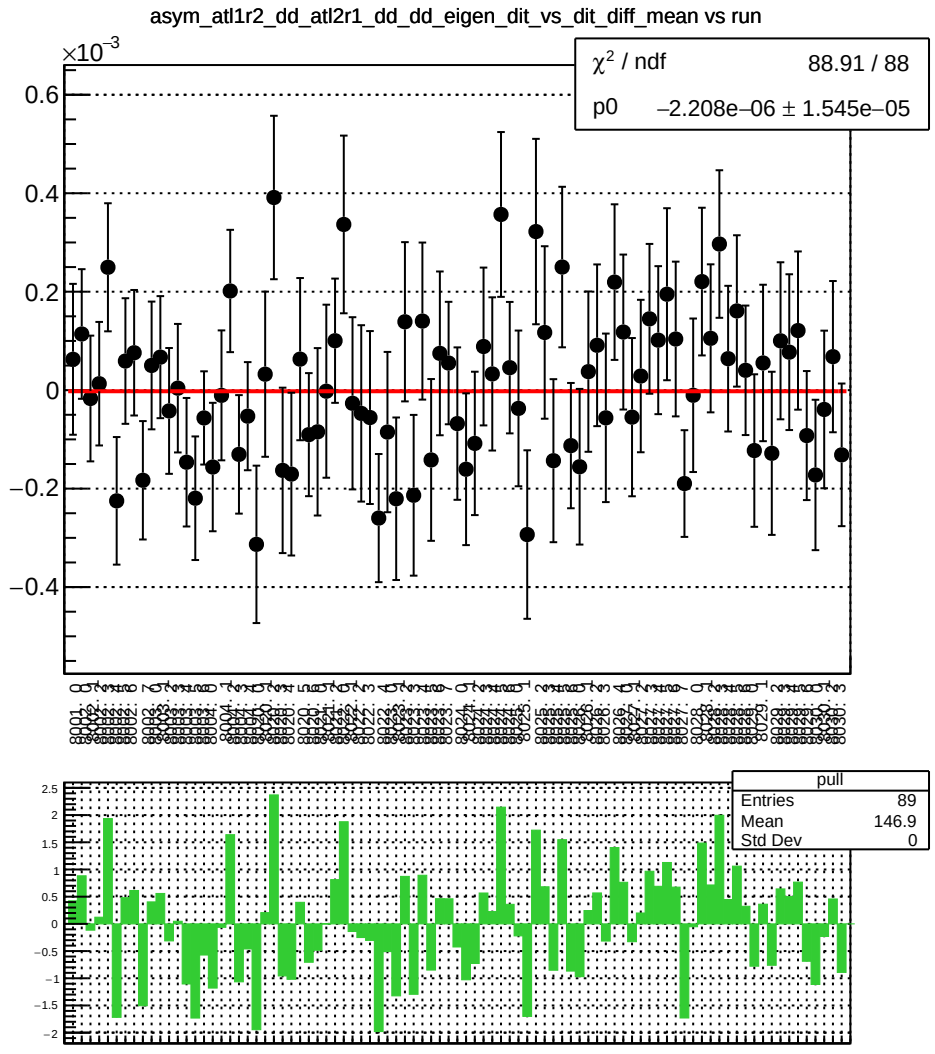


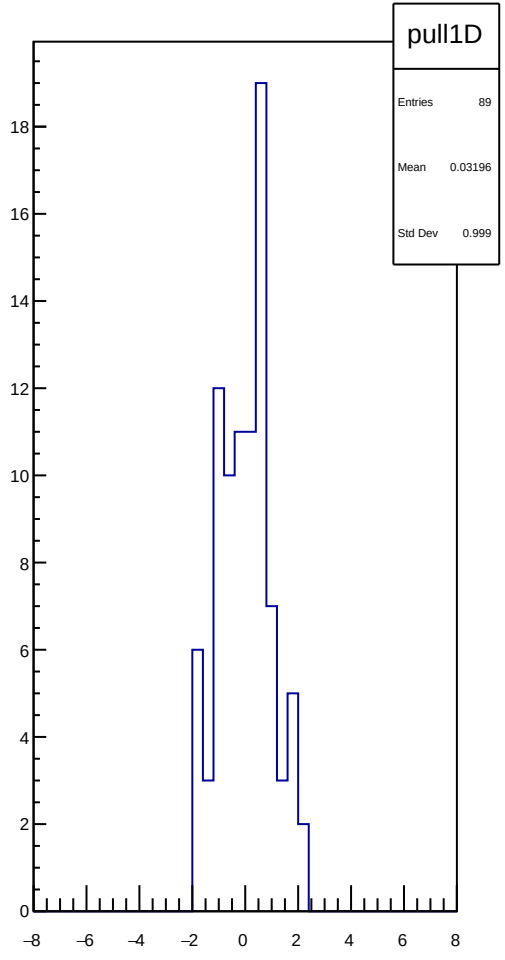


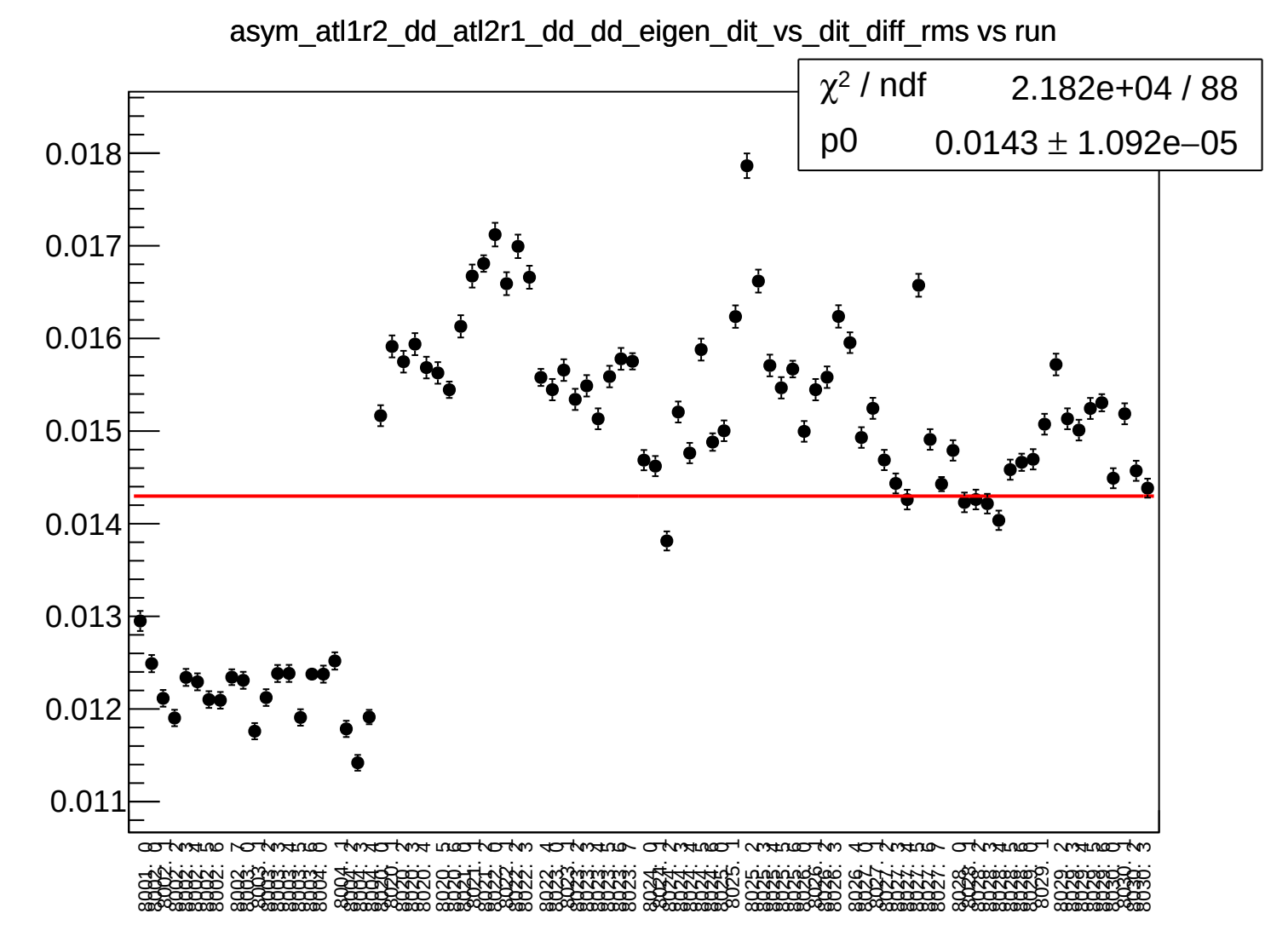

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.784e+04 / 88
p0 190.2 ± 0.1456
260
240
220
200
180
160
140

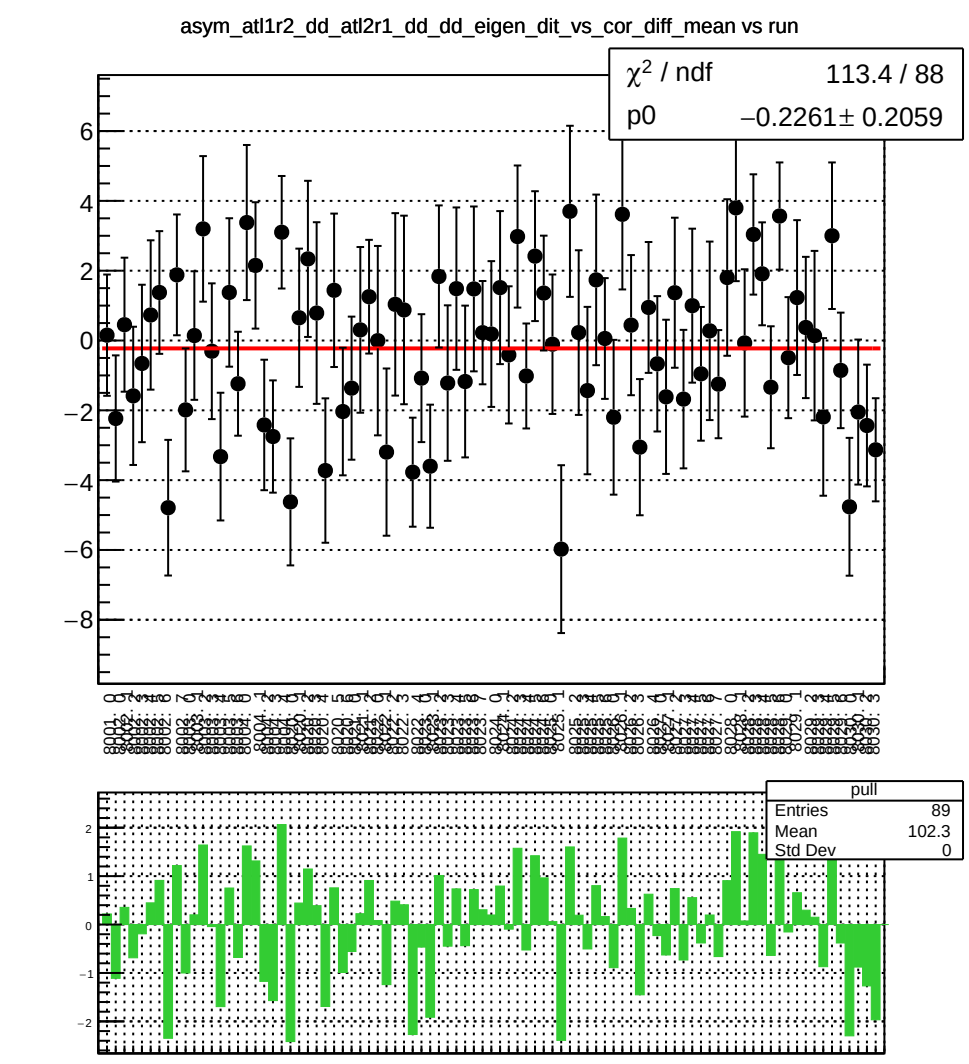

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 113.4 / 88
p0 −0.2261± 0.2059
pull
Entries 89
Mean 102.3
Std Dev 0
pull1D
Entries 89
Mean 0.02102
Std Dev 1.129

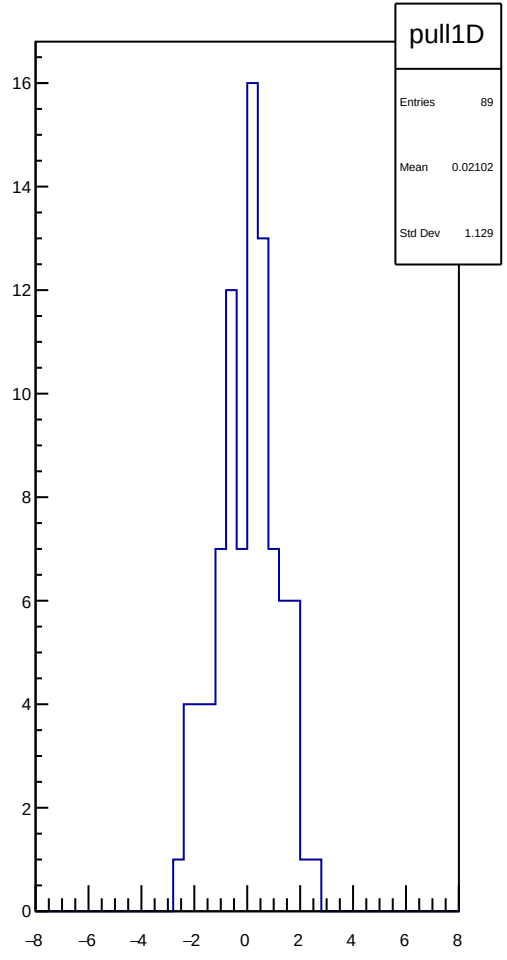

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.784e+04 / 88
p0 190.2 ± 0.1456
260
240
220
200
180
160
140

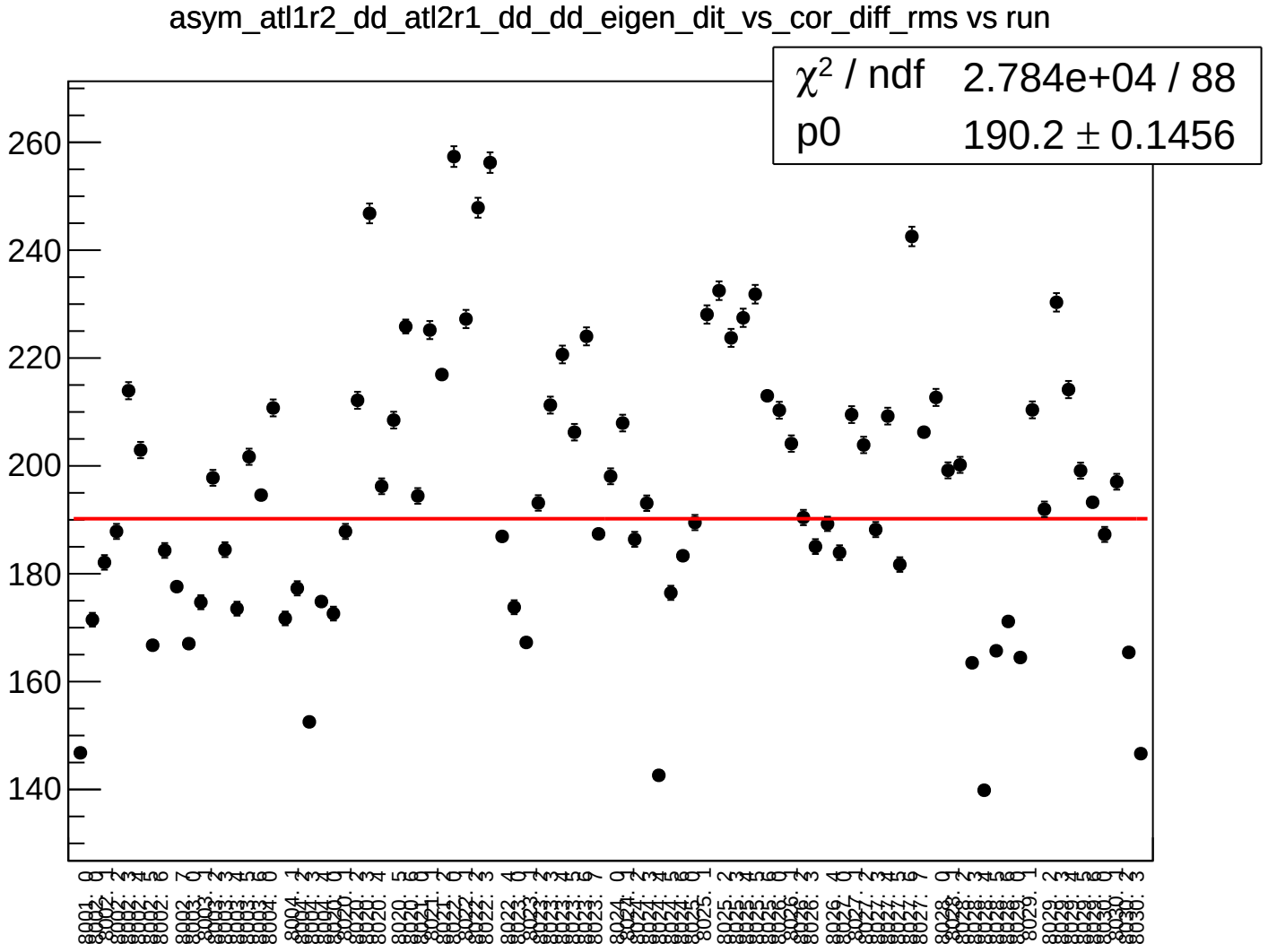

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.91 / 88
p0 −2.208e−06 ± 1.545e−05
pull
Entries 89
Mean 146.9
Std Dev 0

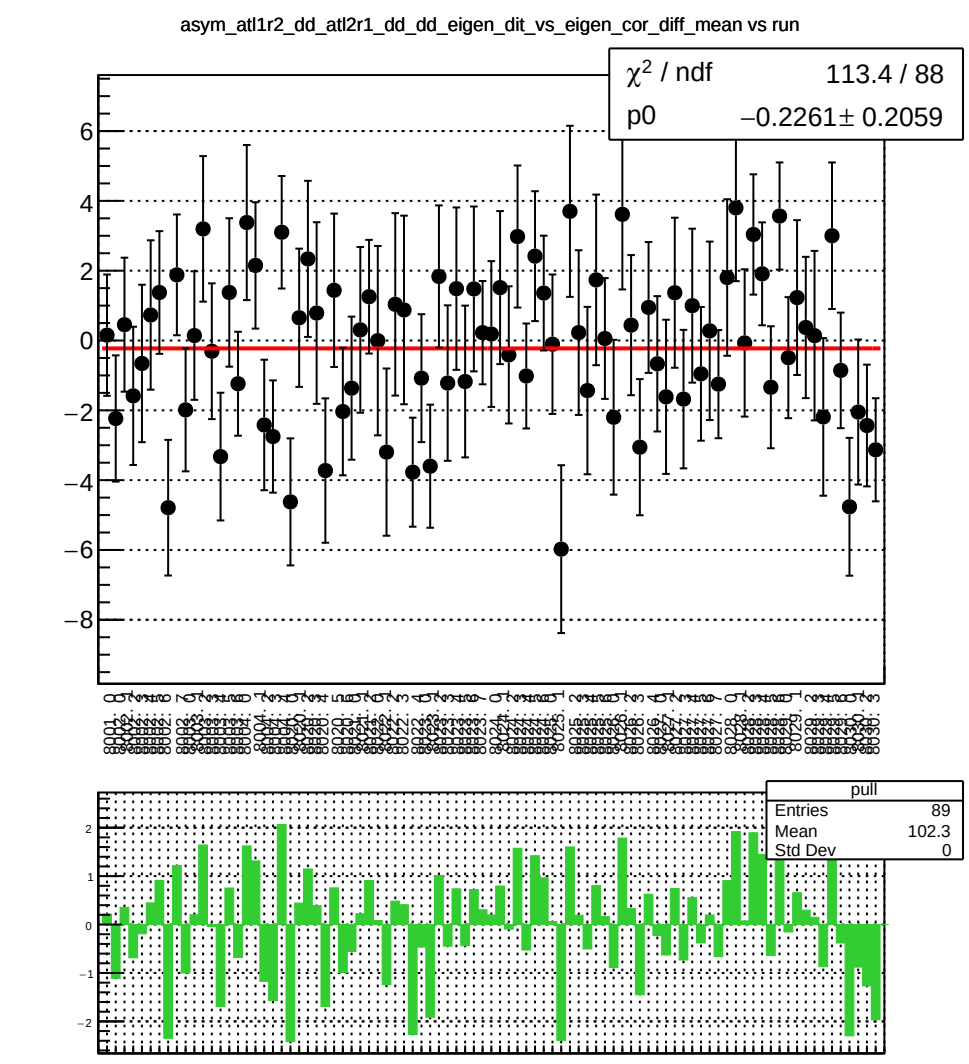

pull1D
Entries 89
Mean 0.03196
Std Dev 0.999

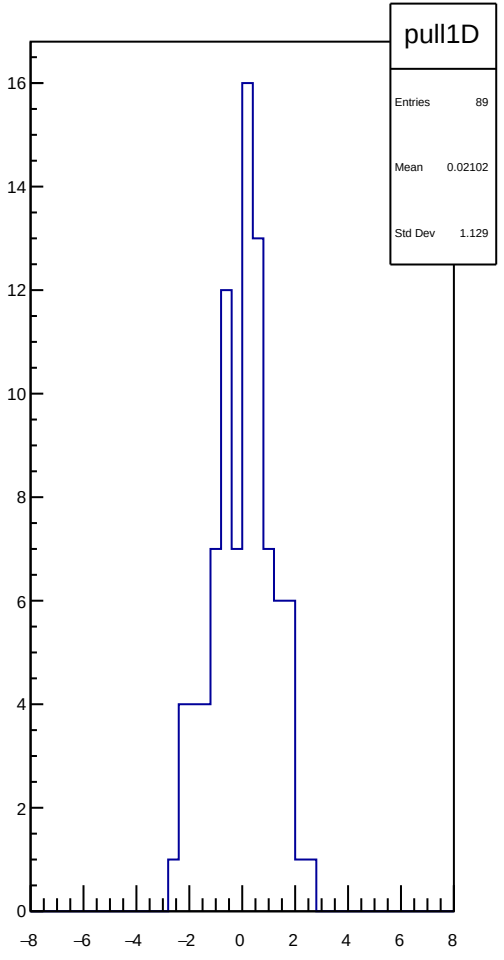

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.182e+04 / 88
p0 0.0143 ± 1.092e−05
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011

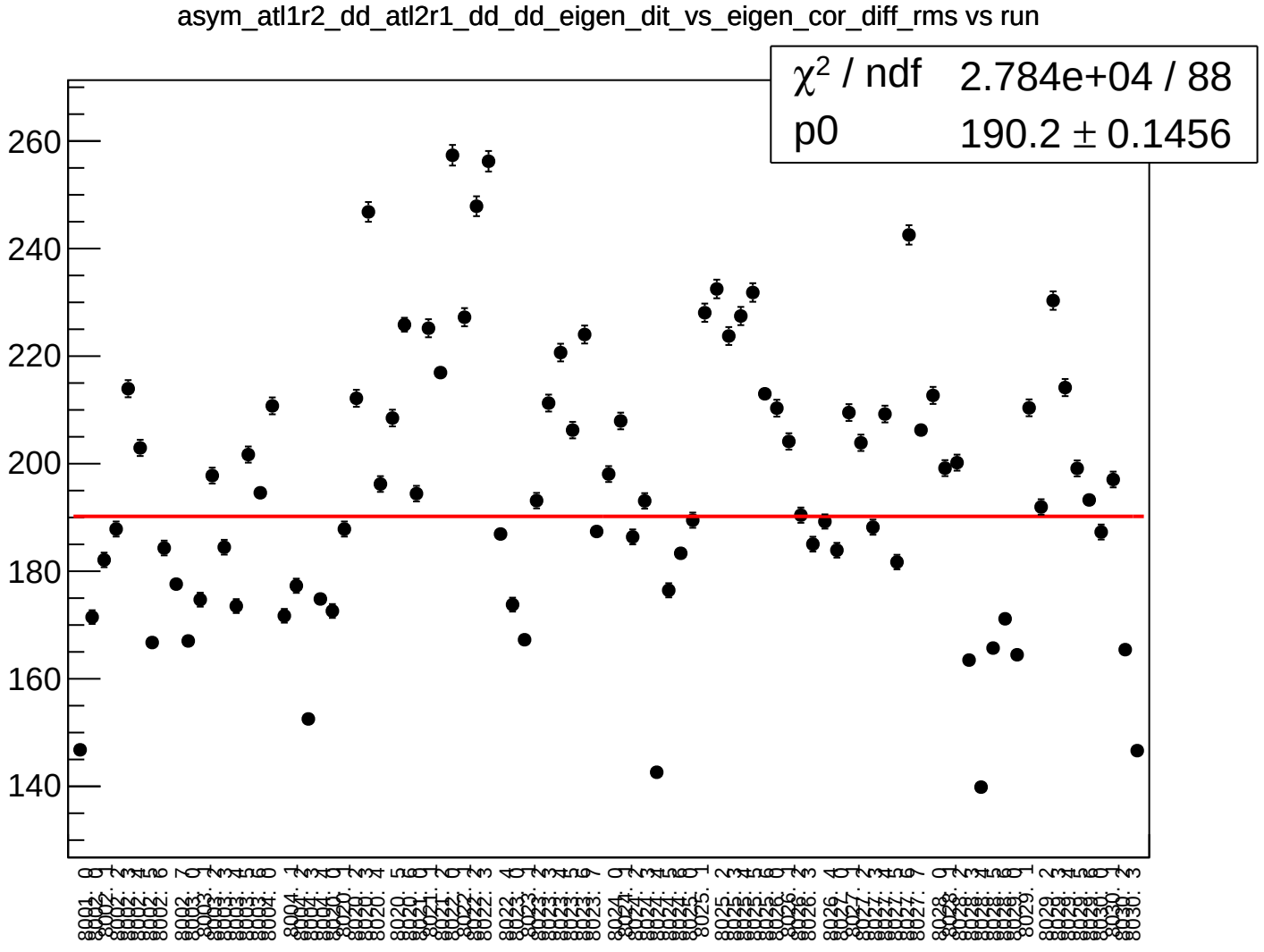

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 113.4 / 88
p0 −0.2261± 0.2059
pull
Entries 89
Mean 102.3
Std Dev 0

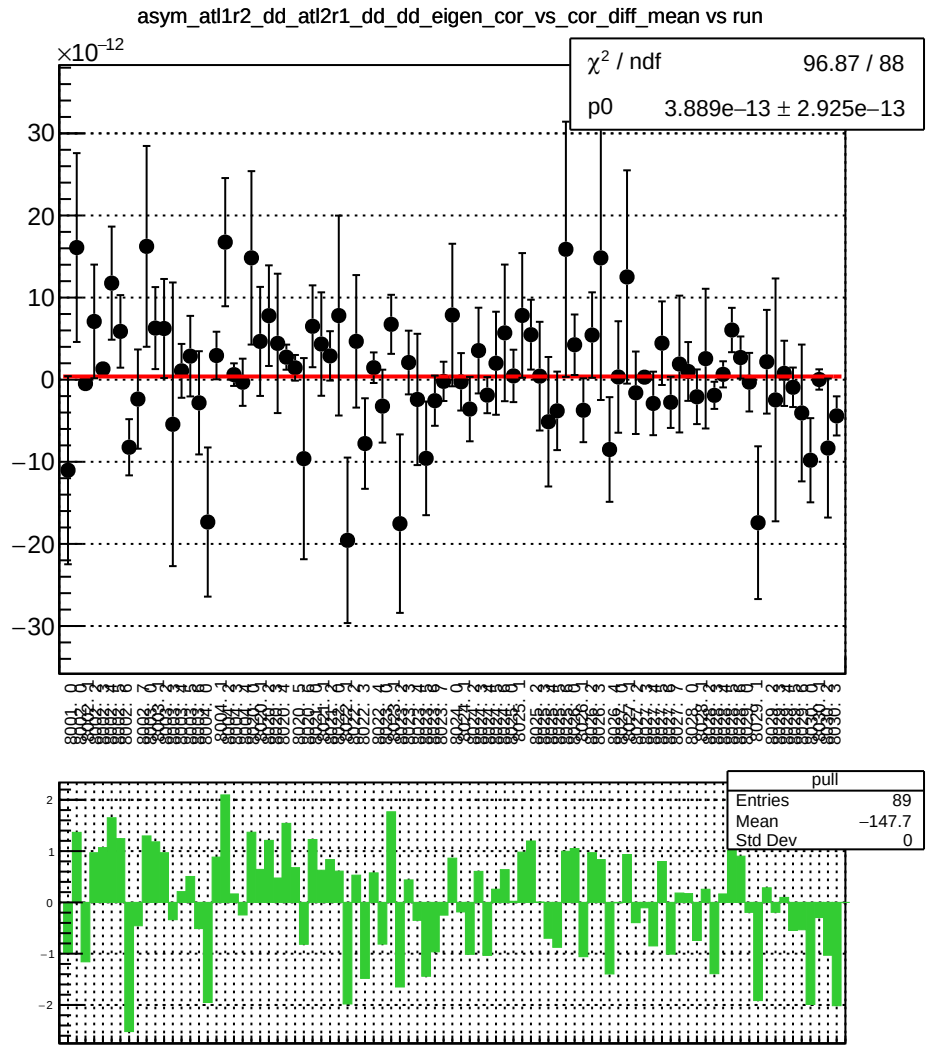

pull1D
Entries 89
Mean 0.02102
Std Dev 1.129

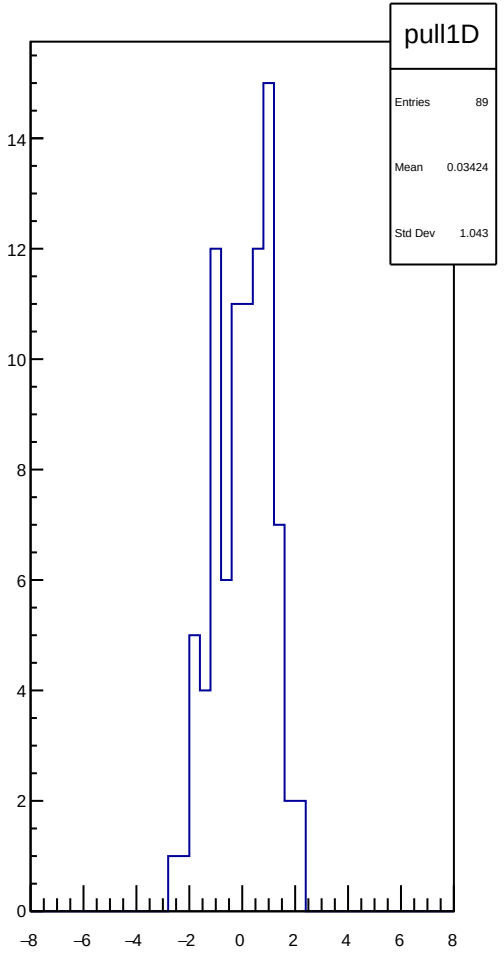

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.784e+04 / 88
p0 190.2 ± 0.1456
260
240
220
200
180
160
140

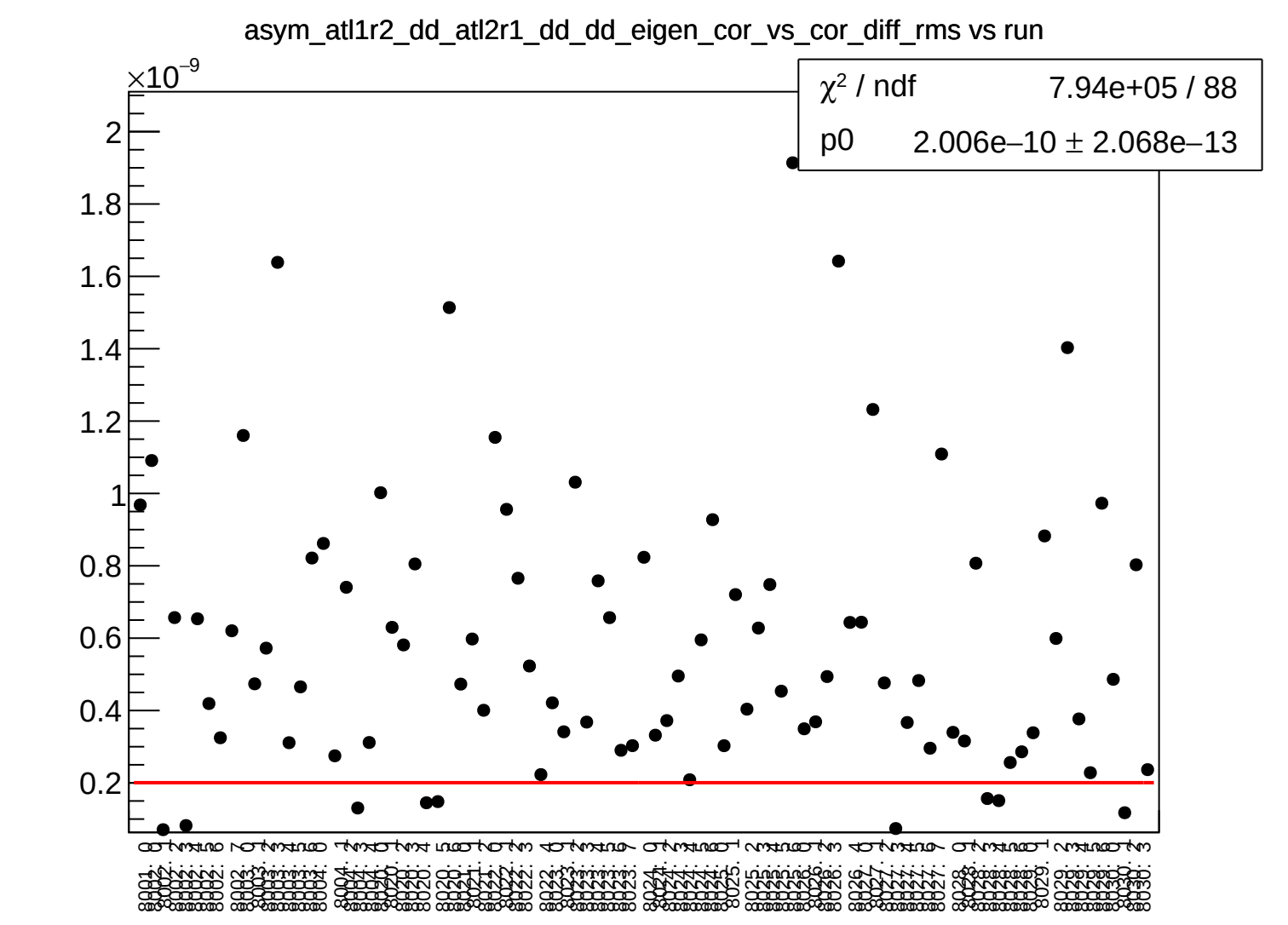

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 113.4 / 88
p0 −0.2261± 0.2059
pull
Entries 89
Mean 102.3
Std Dev 0

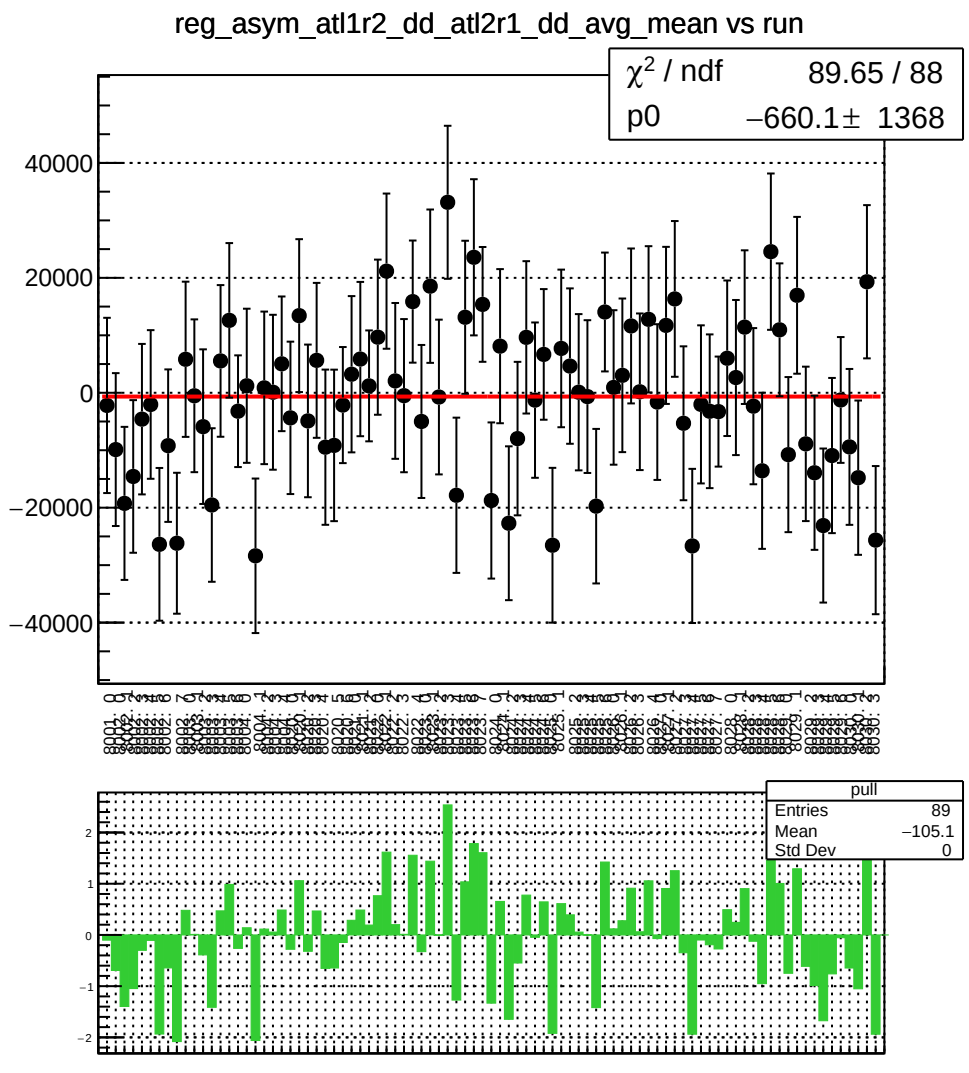

pull1D
Entries 89
Mean 0.02102
Std Dev 1.129

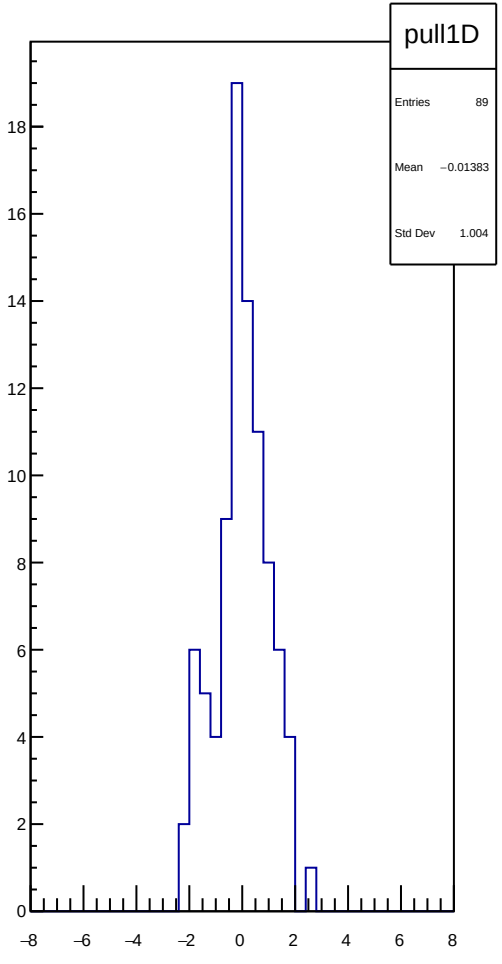

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.784e+04 / 88
p0 190.2 ± 0.1456
260
240
220
200
180
160
140

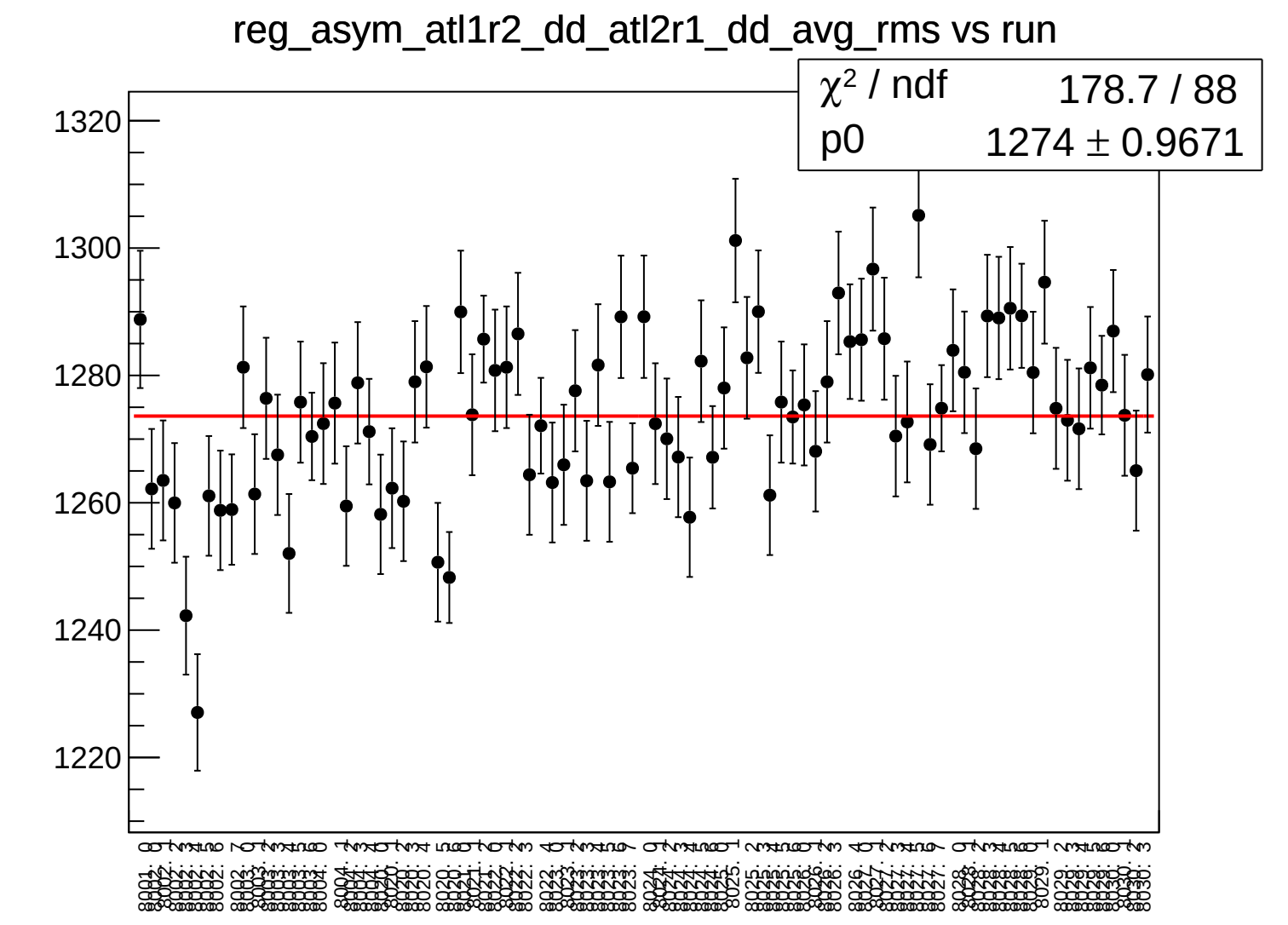

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.87 / 88
p0 3.889e−13 ± 2.925e−13
pull
Entries 89
Mean −147.7
Std Dev 0

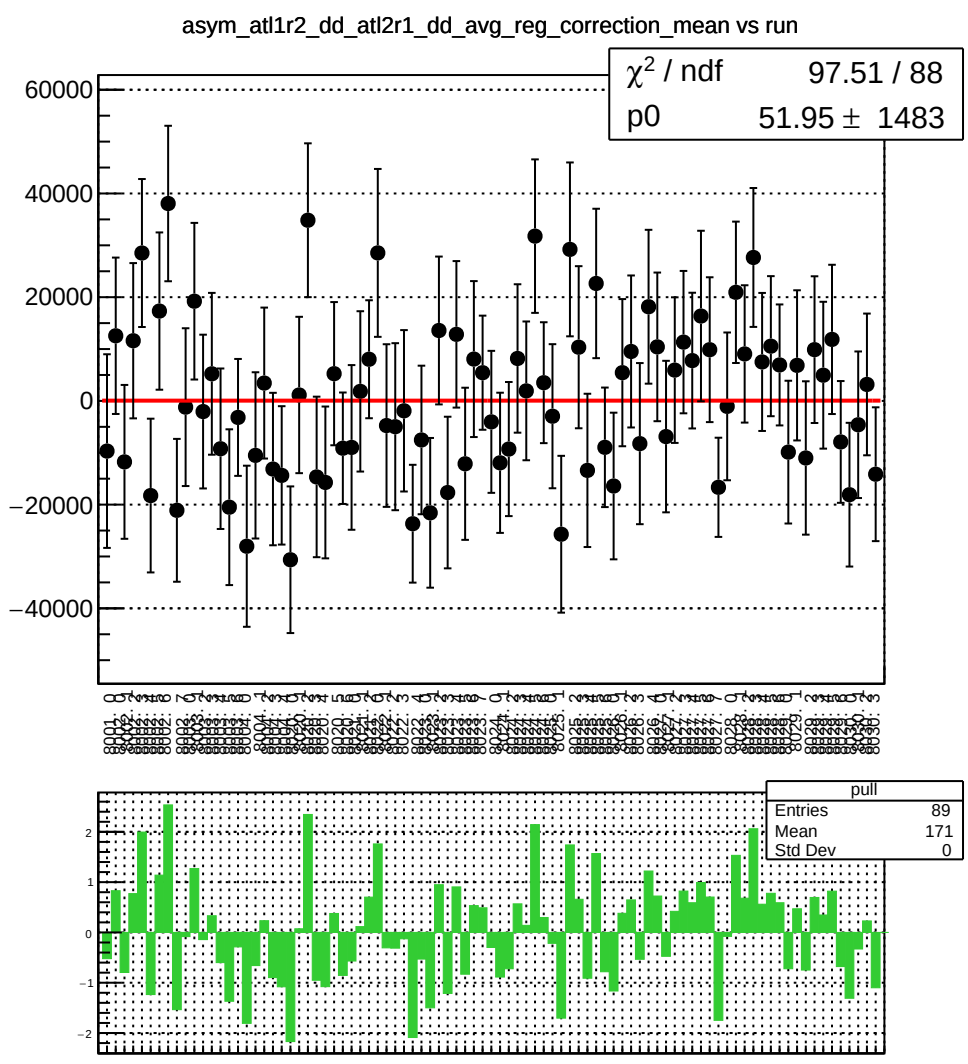

pull1D
Entries 89
Mean 0.03424
Std Dev 1.043

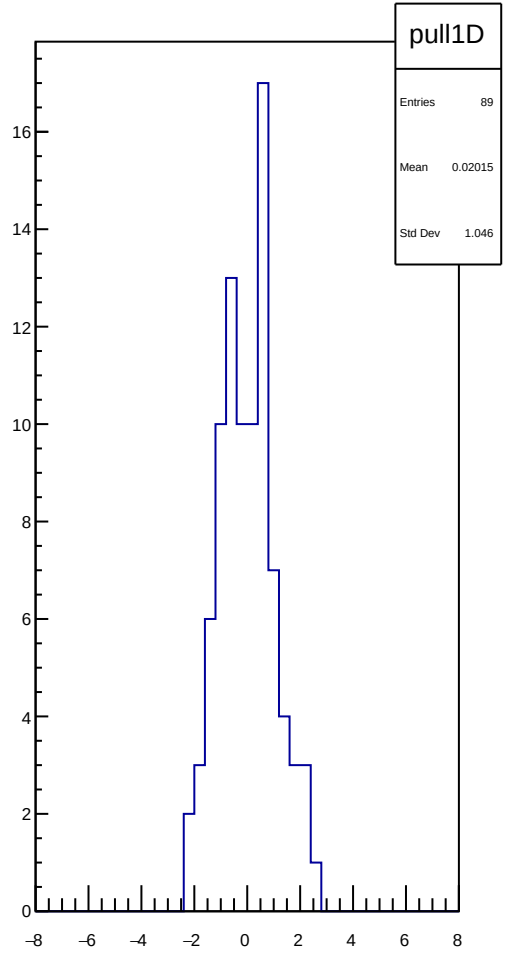

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.94e+05 / 88
p0 2.006e−10 ± 2.068e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

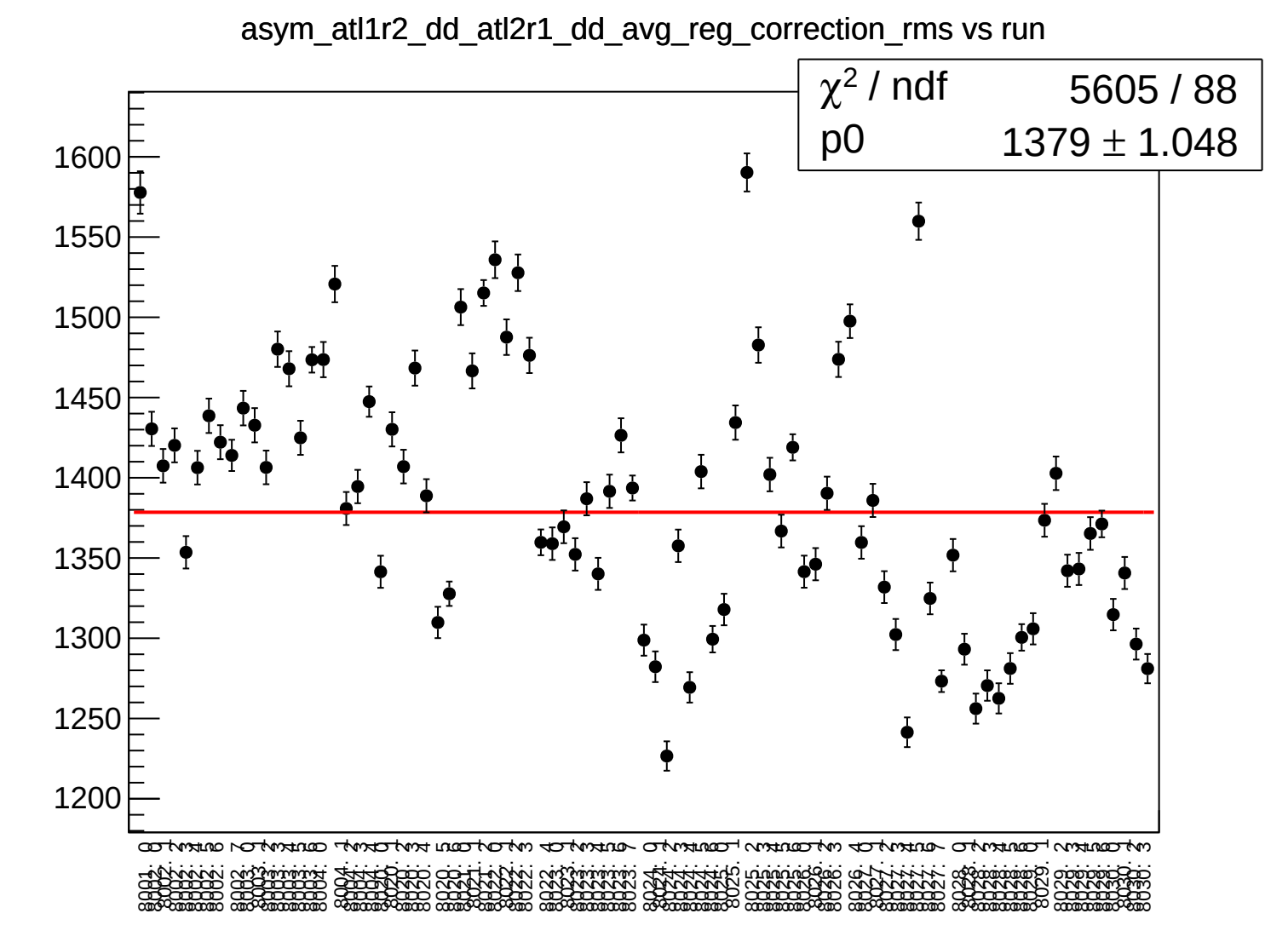

reg_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 89.65 / 88
p0 −660.1± 1368
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −105.1
Std Dev 0
2
1
0
−1
−2

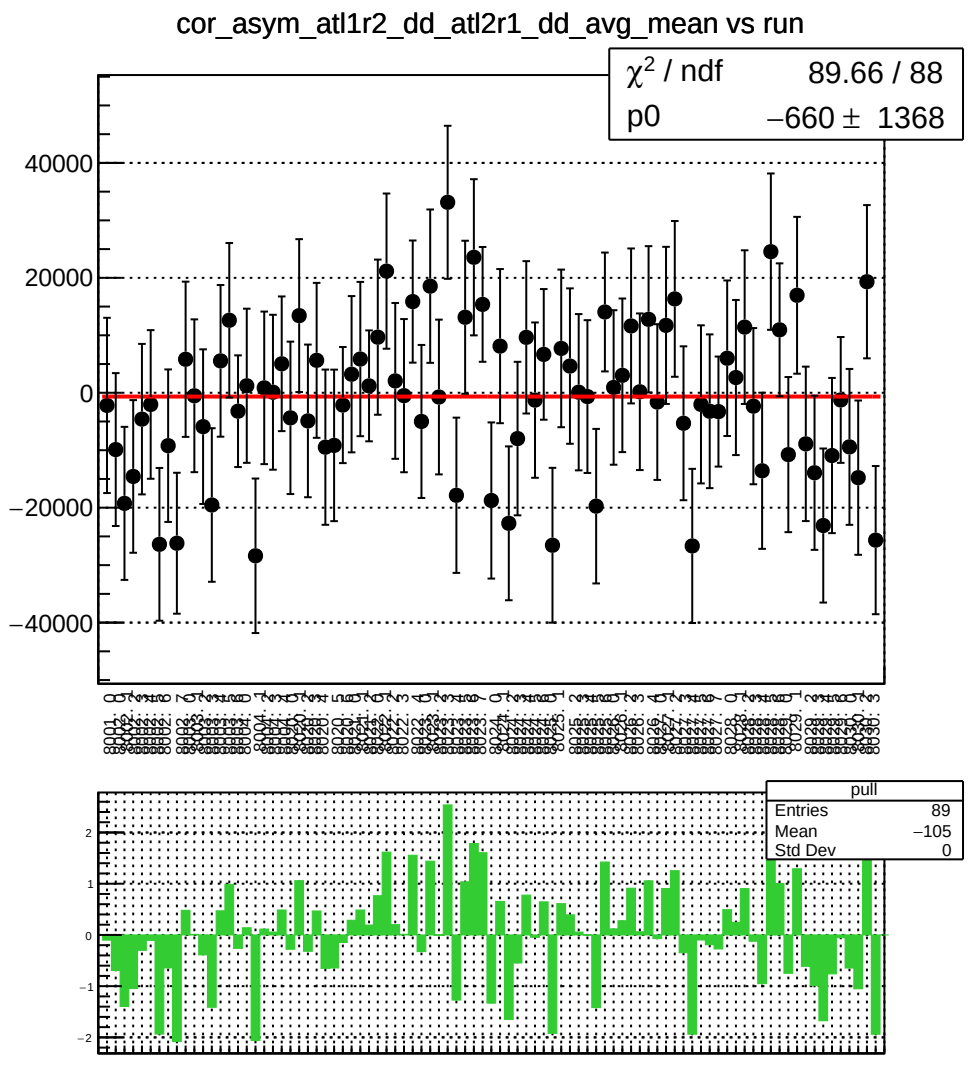

pull1D
Entries 89
Mean −0.01383
Std Dev 1.004
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

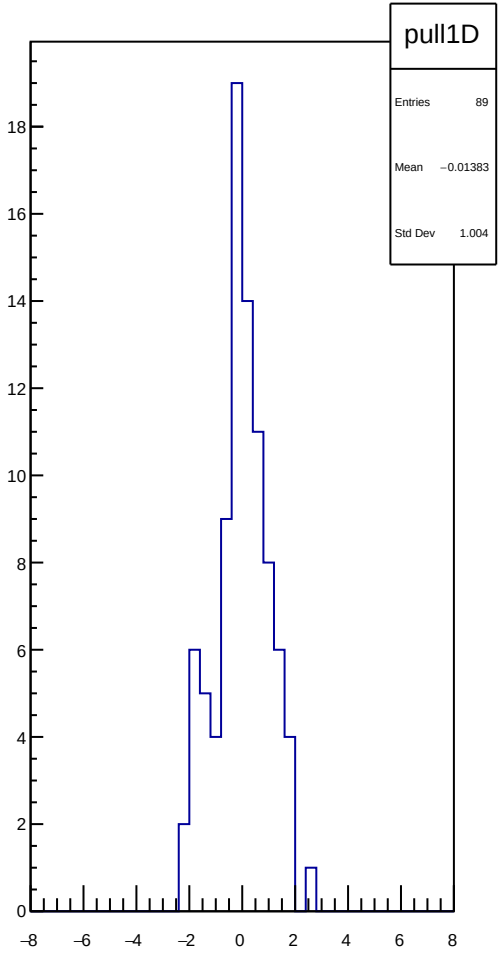

reg_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 178.7 / 88
p0 1274 ± 0.9671
1320
1300
1280
1260
1240
1220

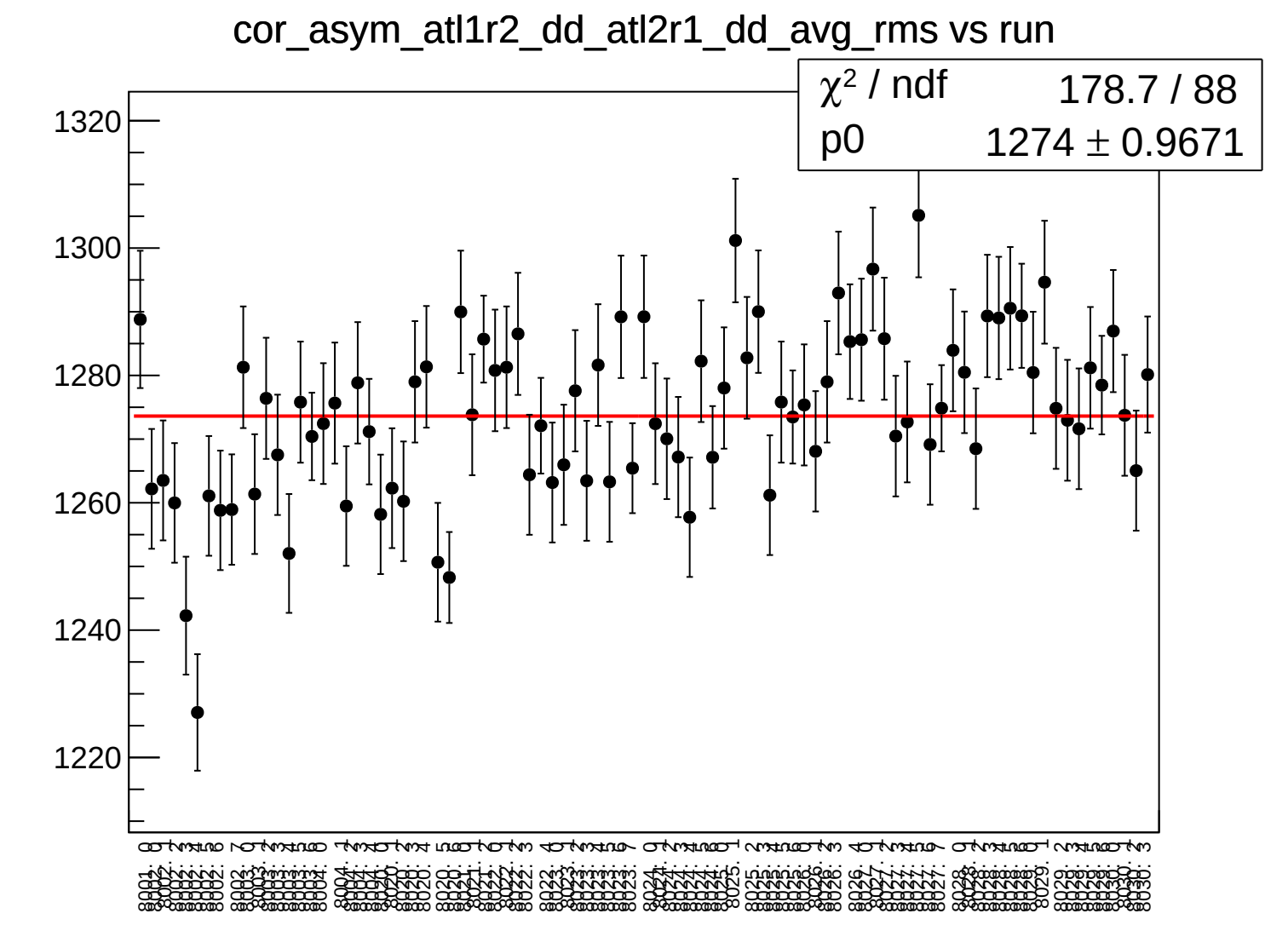

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_mean vs run
χ² / ndf 97.51 / 88
p0 51.95 ± 1483
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 171
Std Dev 0
2
1
0
−1
−2

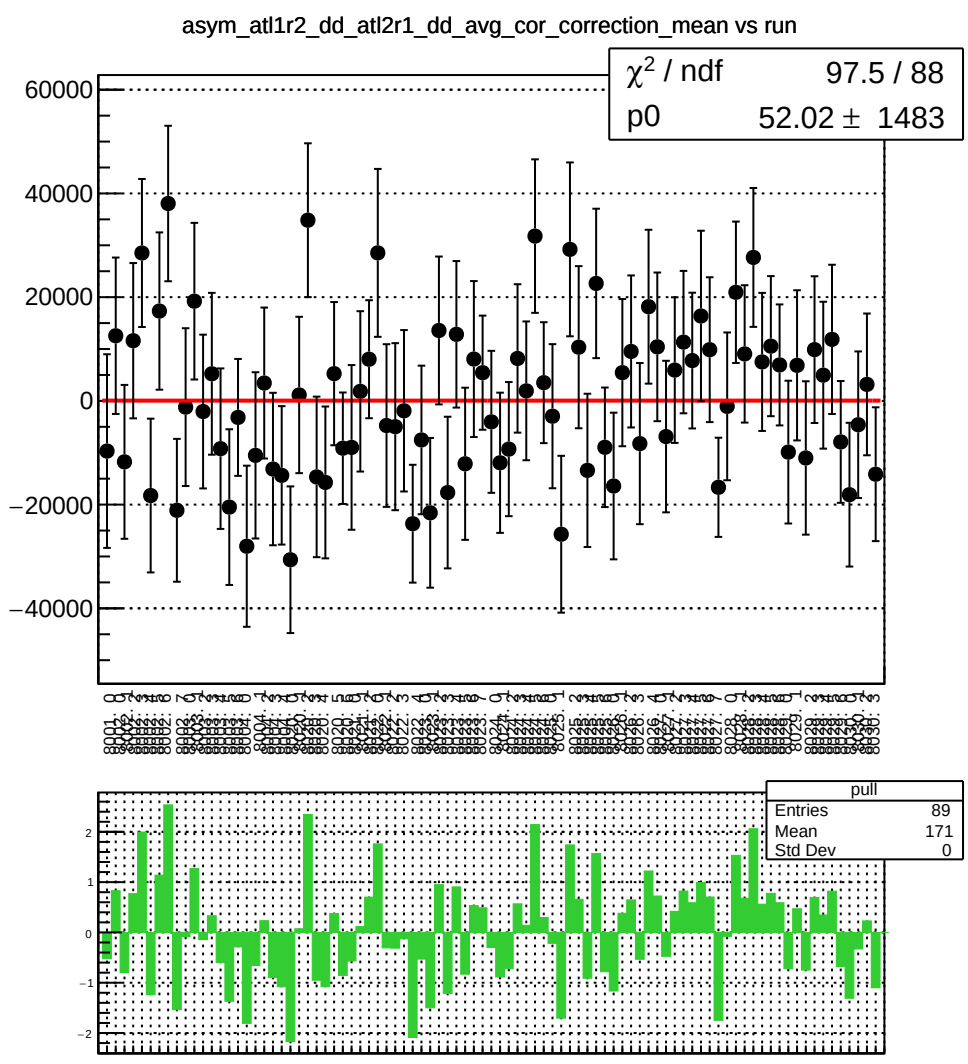

pull1D
Entries 89
Mean 0.02015
Std Dev 1.046
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

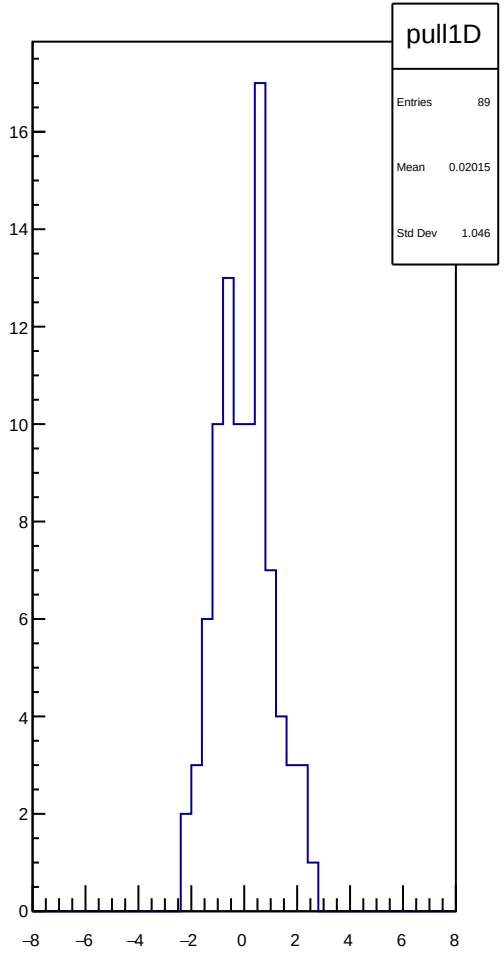

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_rms vs run
χ² / ndf 5605 / 88
p0 1379 ± 1.048
1600
1550
1500
1450
1400
1350
1300
1250
1200

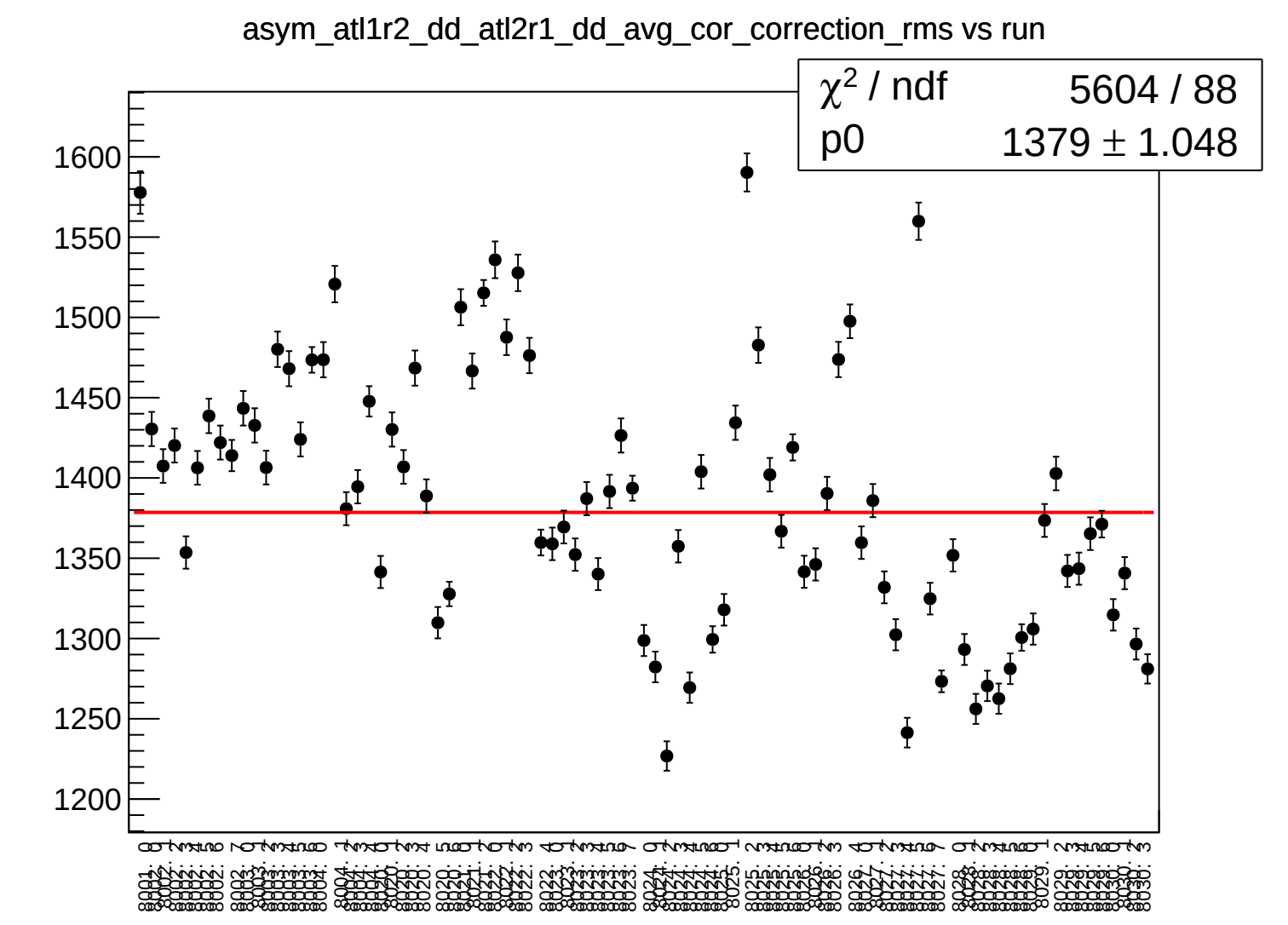

cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 89.66 / 88
p0 −660 ± 1368
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −105
Std Dev 0
2
1
0
−1
−2

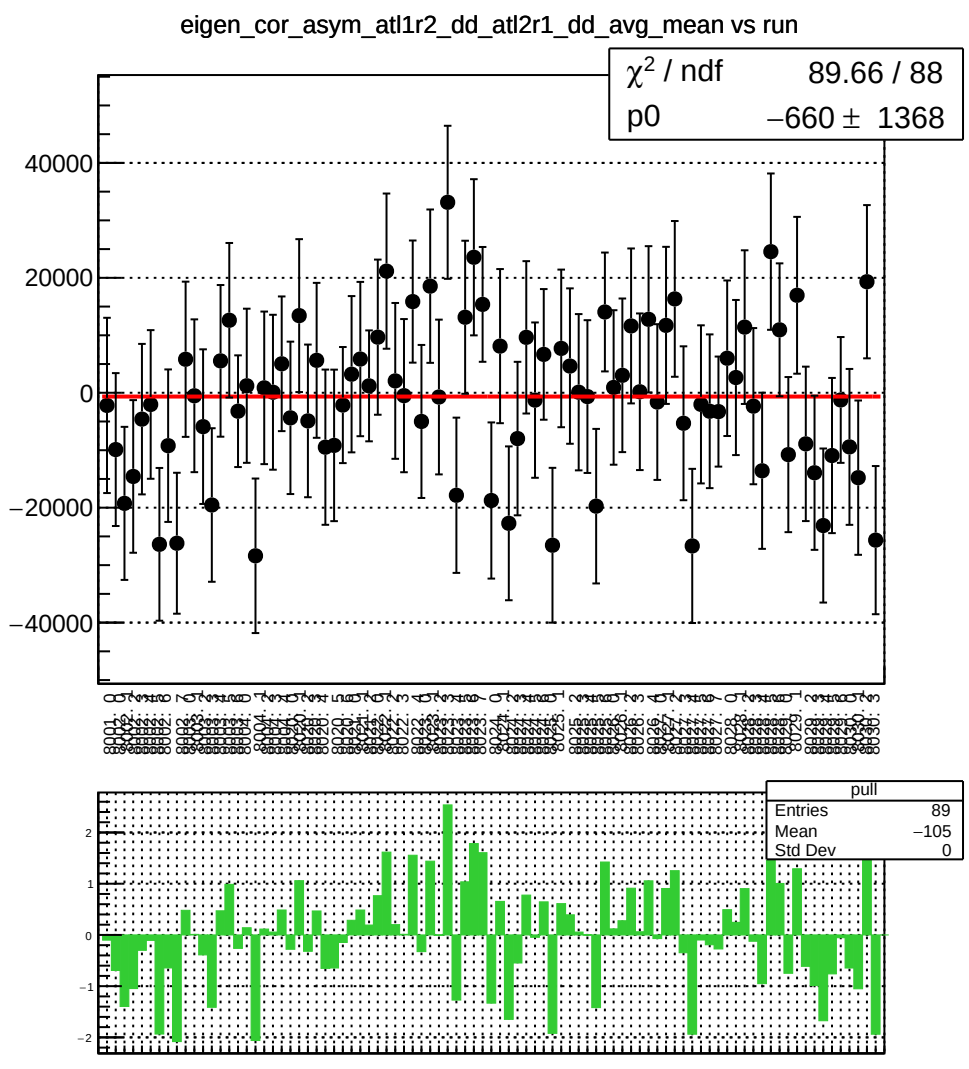

pull1D
Entries 89
Mean −0.01383
Std Dev 1.004
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

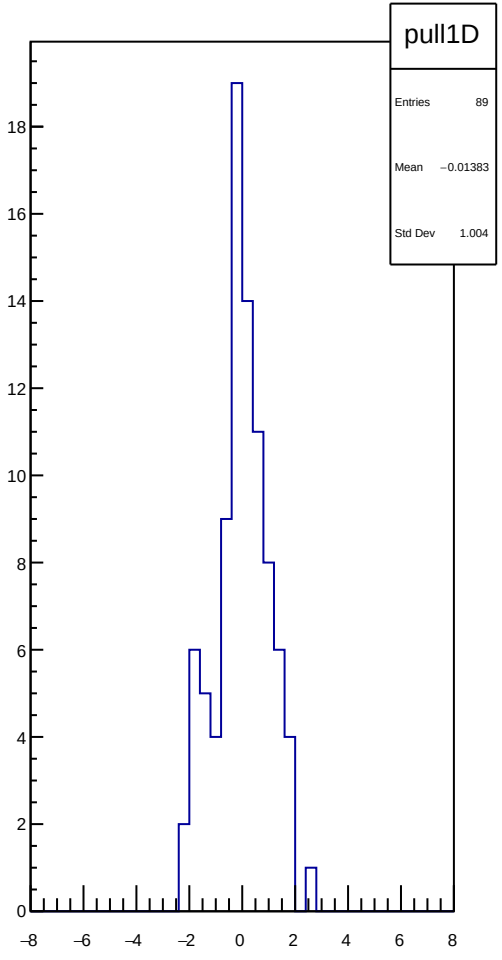

cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 178.7 / 88
p0 1274 ± 0.9671
1320
1300
1280
1260
1240
1220

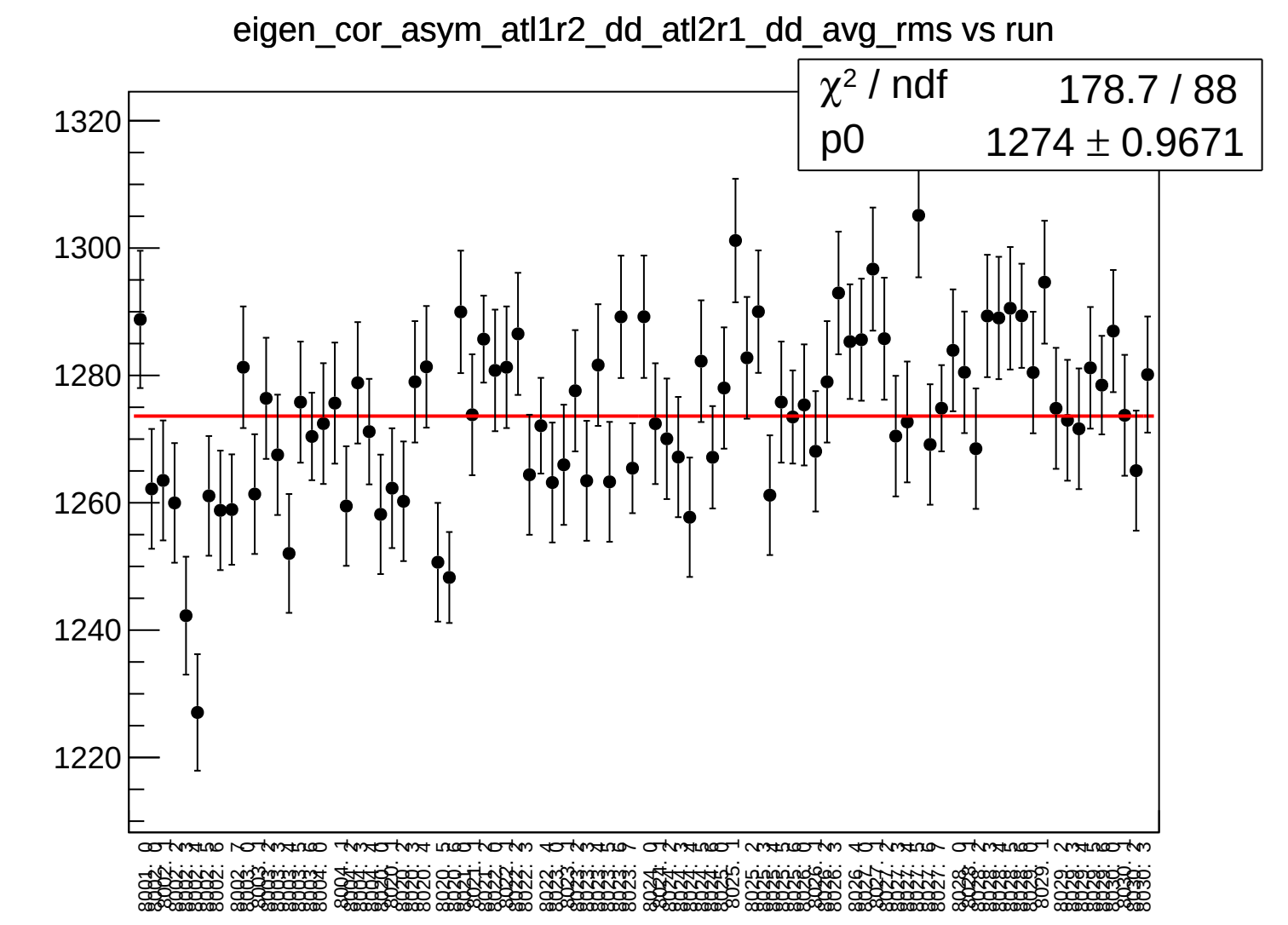

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_mean vs run
χ² / ndf 97.5 / 88
p0 52.02 ± 1483
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 171
Std Dev 0
2
1
0
−1
−2

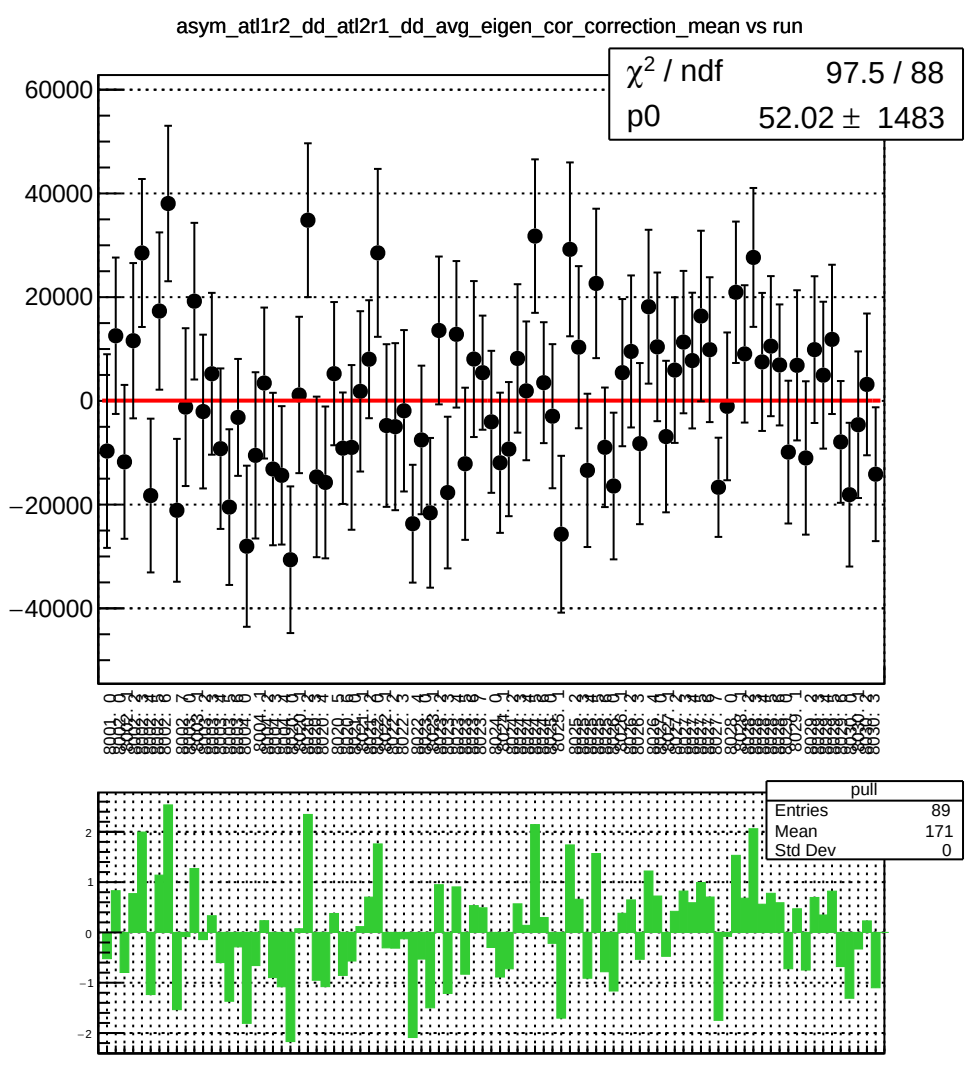

pull1D
Entries 89
Mean 0.02015
Std Dev 1.046
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

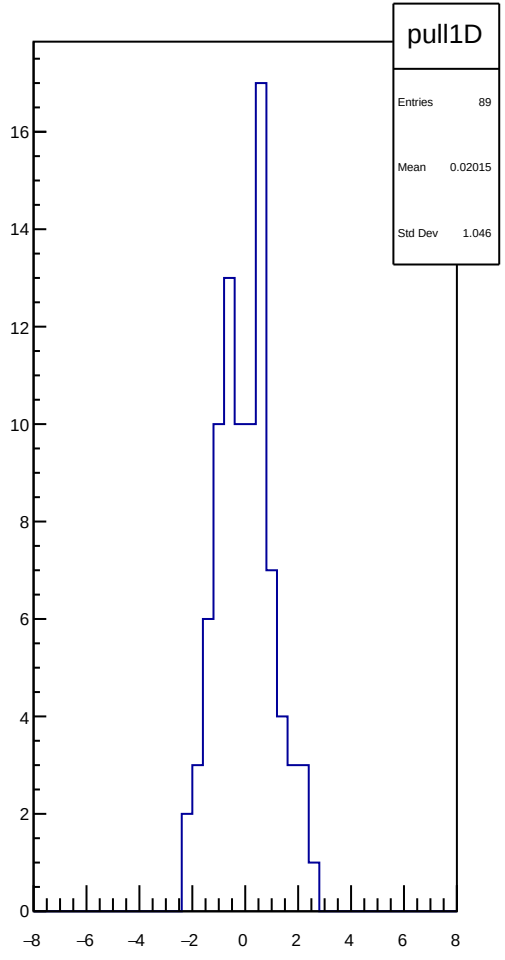

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_rms vs run
χ² / ndf 5604 / 88
p0 1379 ± 1.048
1600
1550
1500
1450
1400
1350
1300
1250
1200

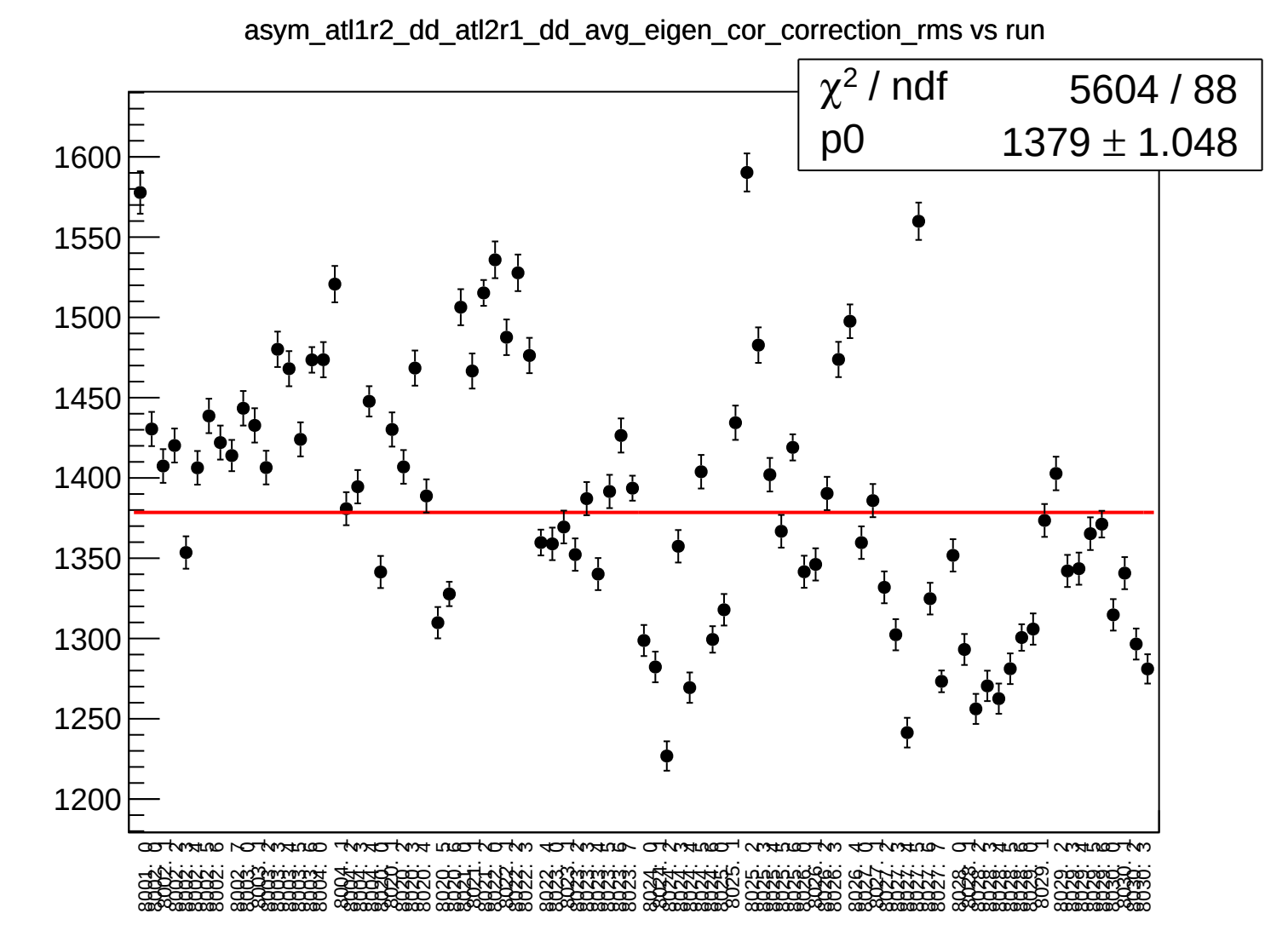

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 89.66 / 88
p0 −660 ± 1368
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −105
Std Dev 0
2
1
0
−1
−2

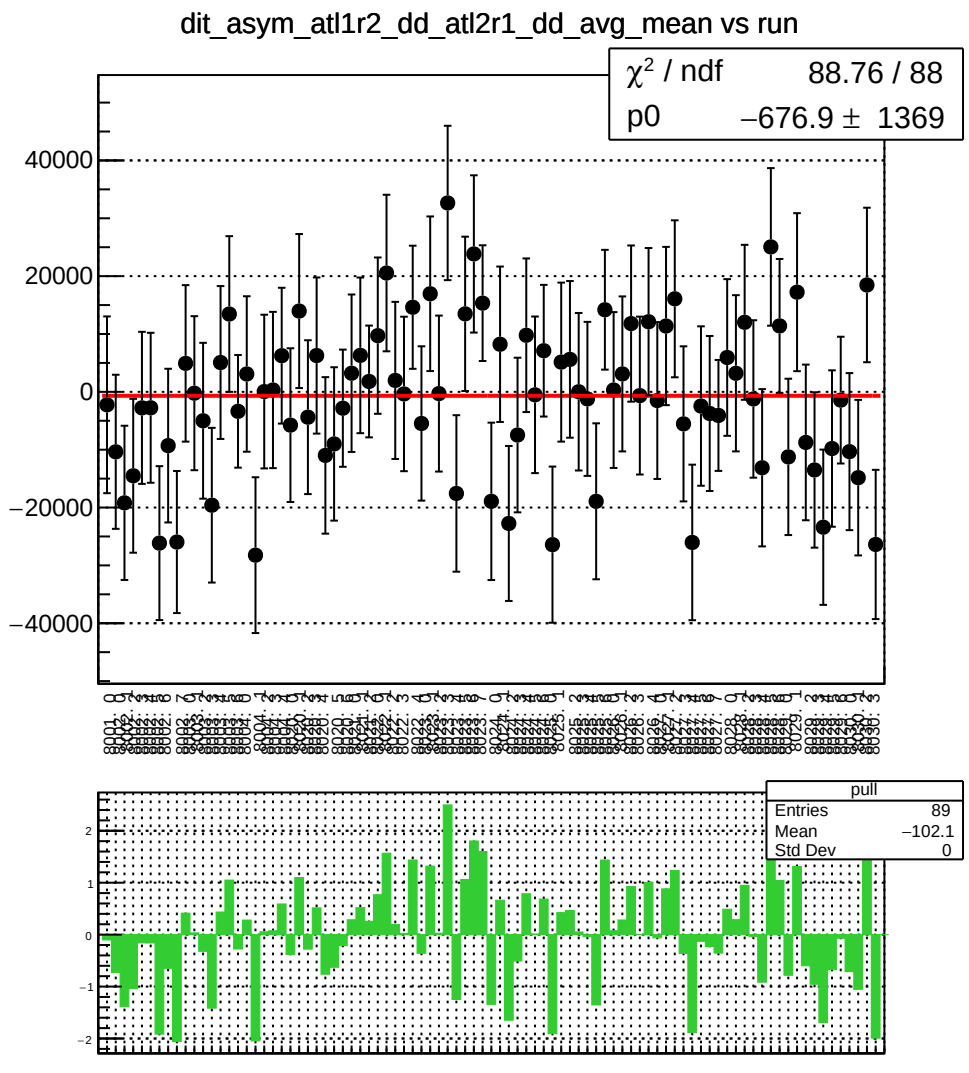

pull1D
Entries 89
Mean −0.01383
Std Dev 1.004
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

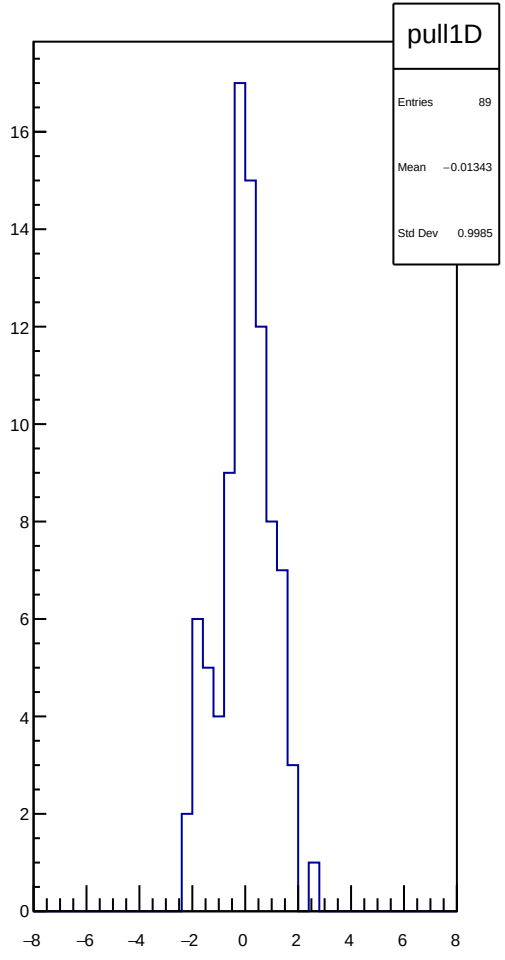

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 178.7 / 88
p0 1274 ± 0.9671
1320
1300
1280
1260
1240
1220

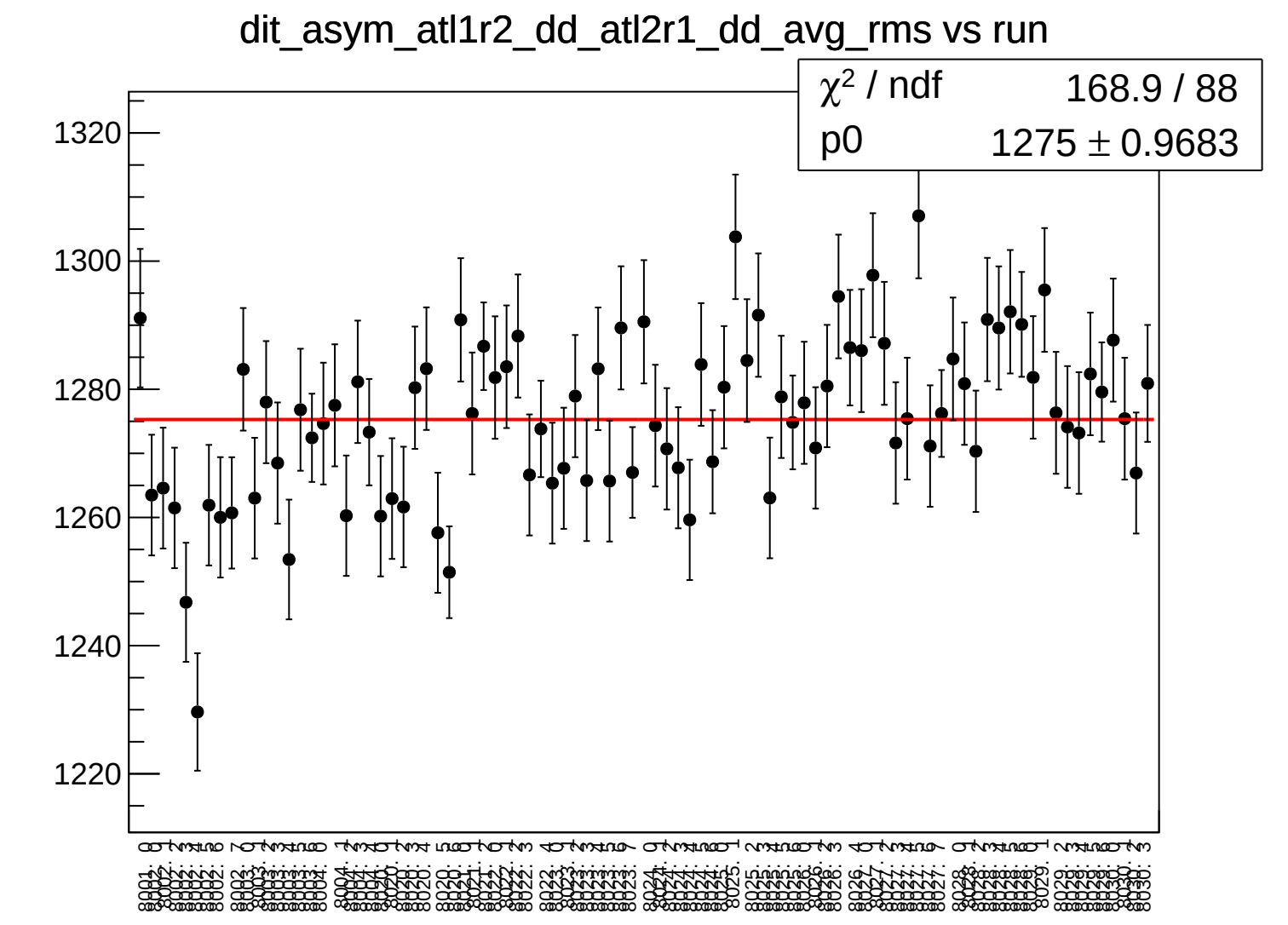

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 97.5 / 88
p0 52.02 ± 1483
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 171
Std Dev 0
2
1
0
−1
−2

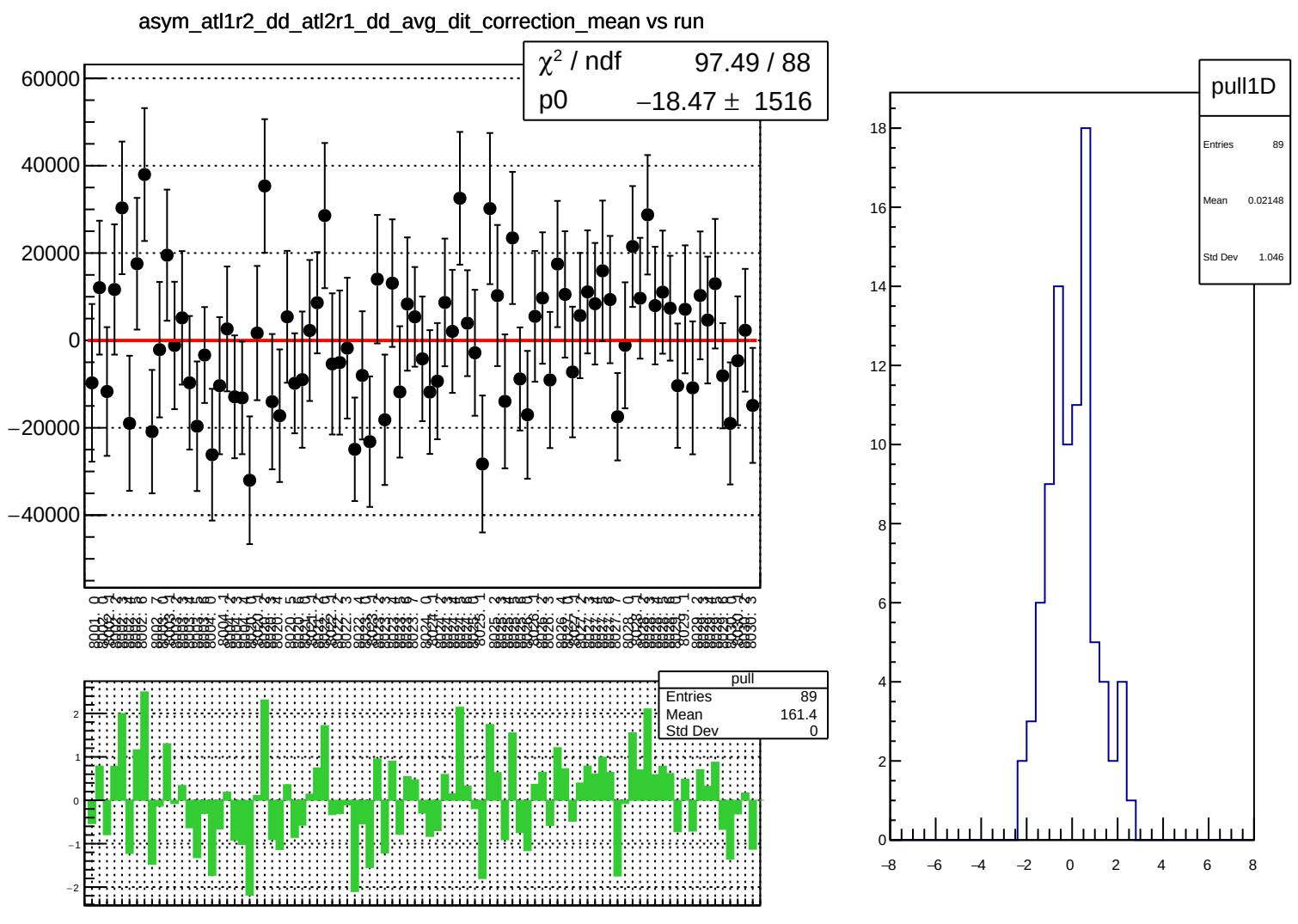

pull1D
Entries 89
Mean 0.02015
Std Dev 1.046
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

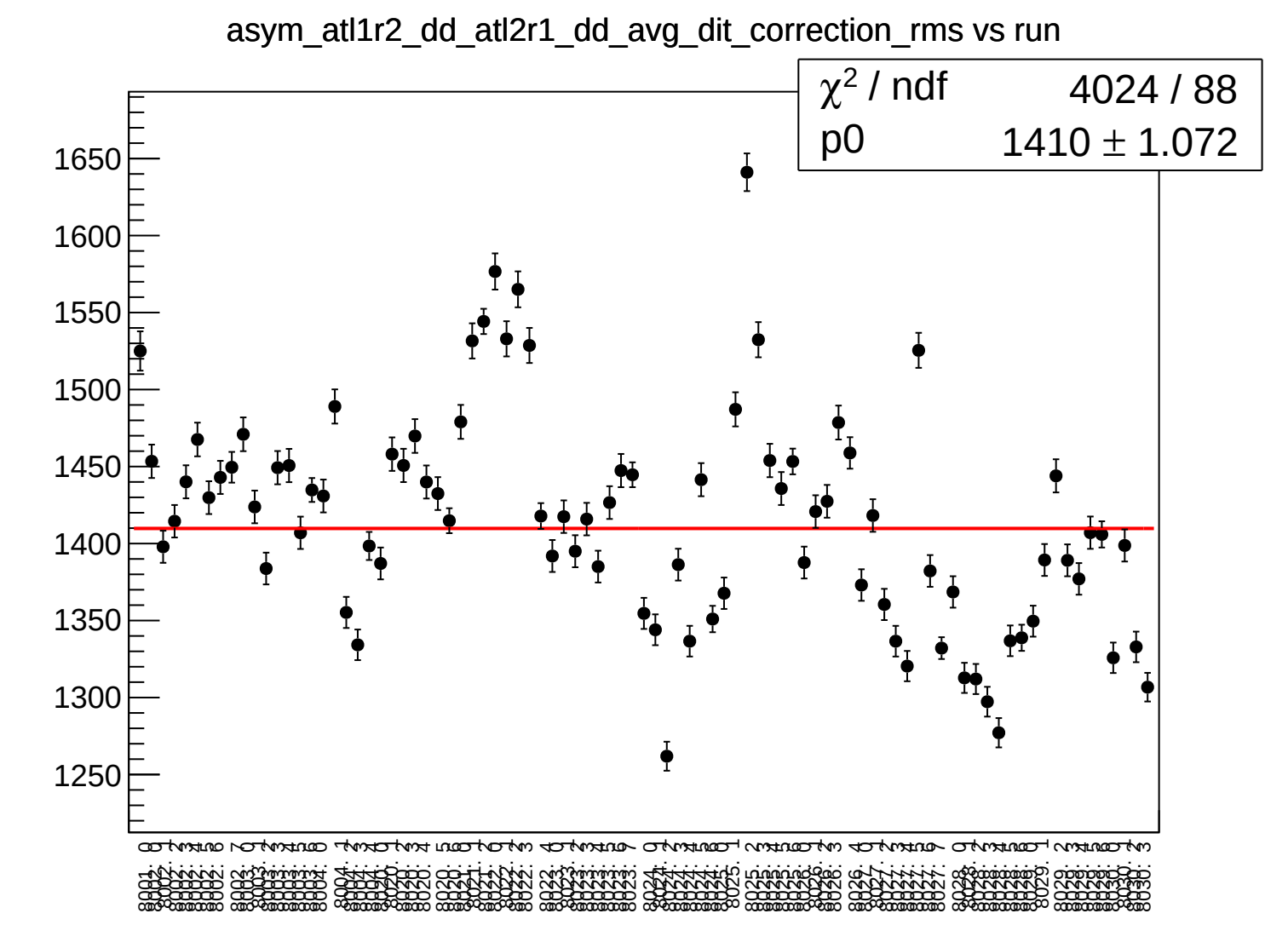

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 5604 / 88
p0 1379 ± 1.048
1600
1550
1500
1450
1400
1350
1300
1250
1200

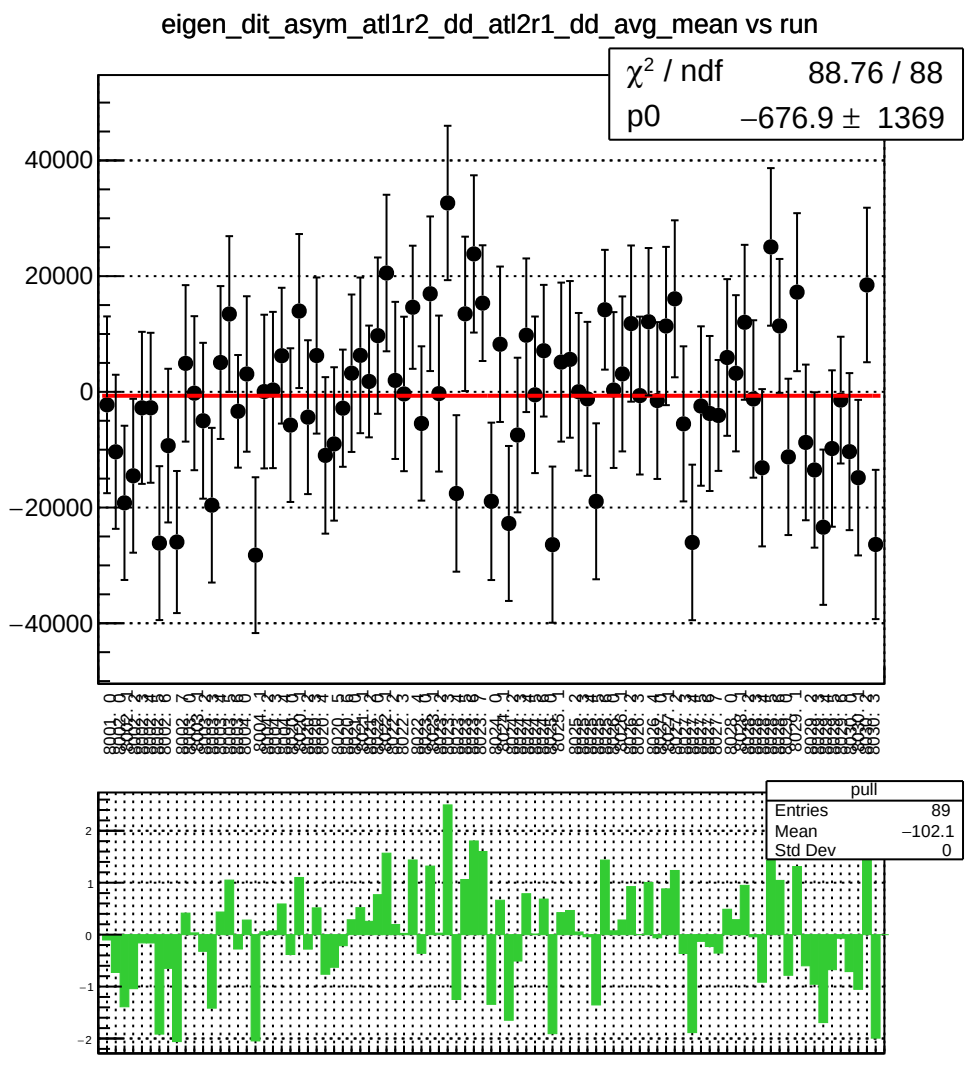

dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 88.76 / 88
p0 −676.9 ± 1369
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −102.1
Std Dev 0
2
1
0
−1
−2

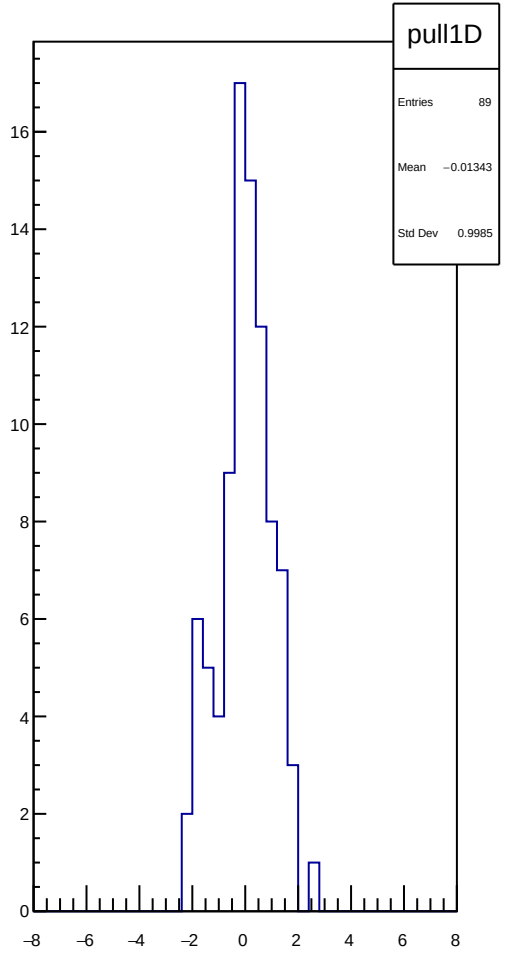

pull1D
Entries 89
Mean −0.01343
Std Dev 0.9985
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

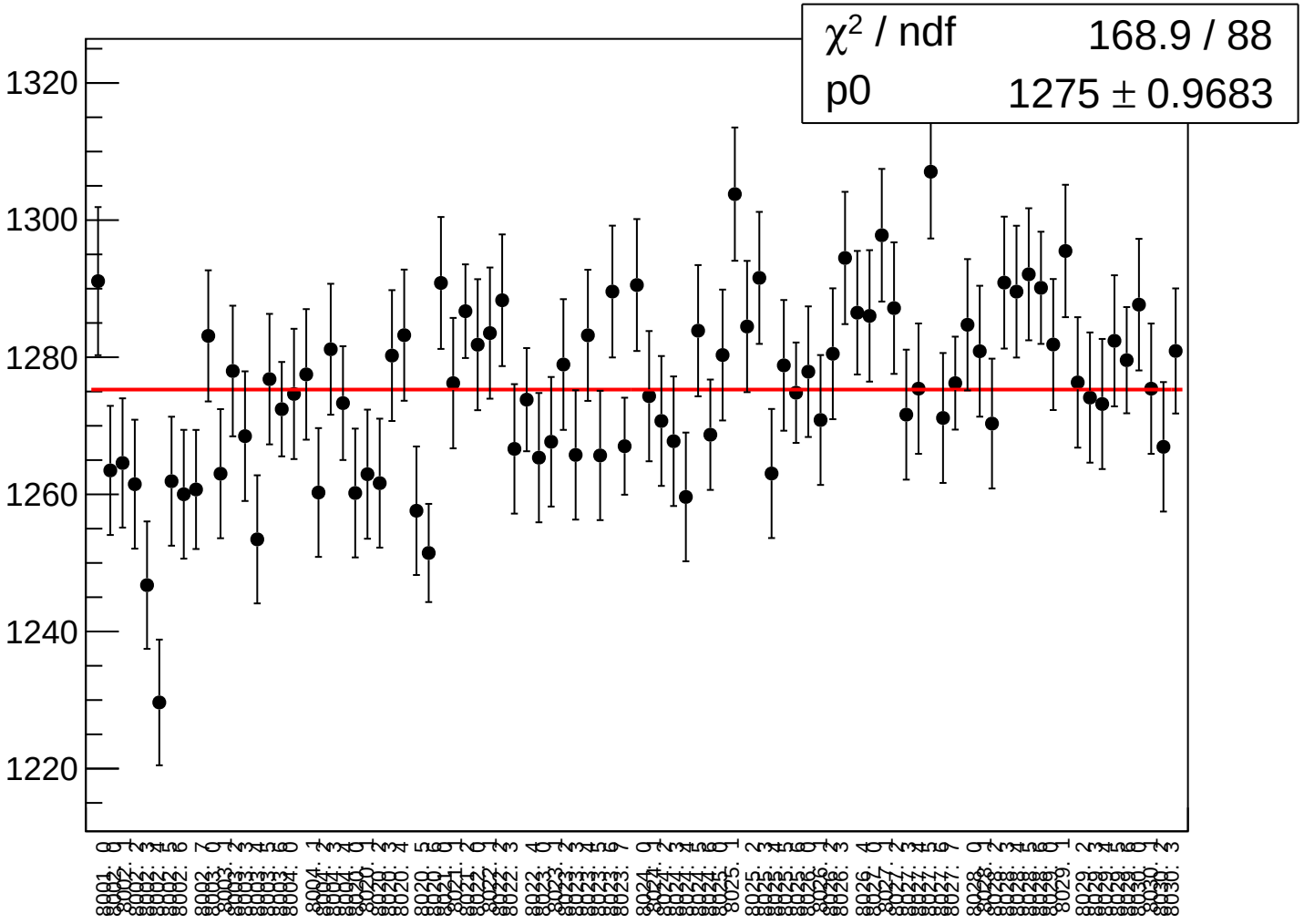

dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 168.9 / 88
p0 1275 ± 0.9683
1320
1300
1280
1260
1240
1220

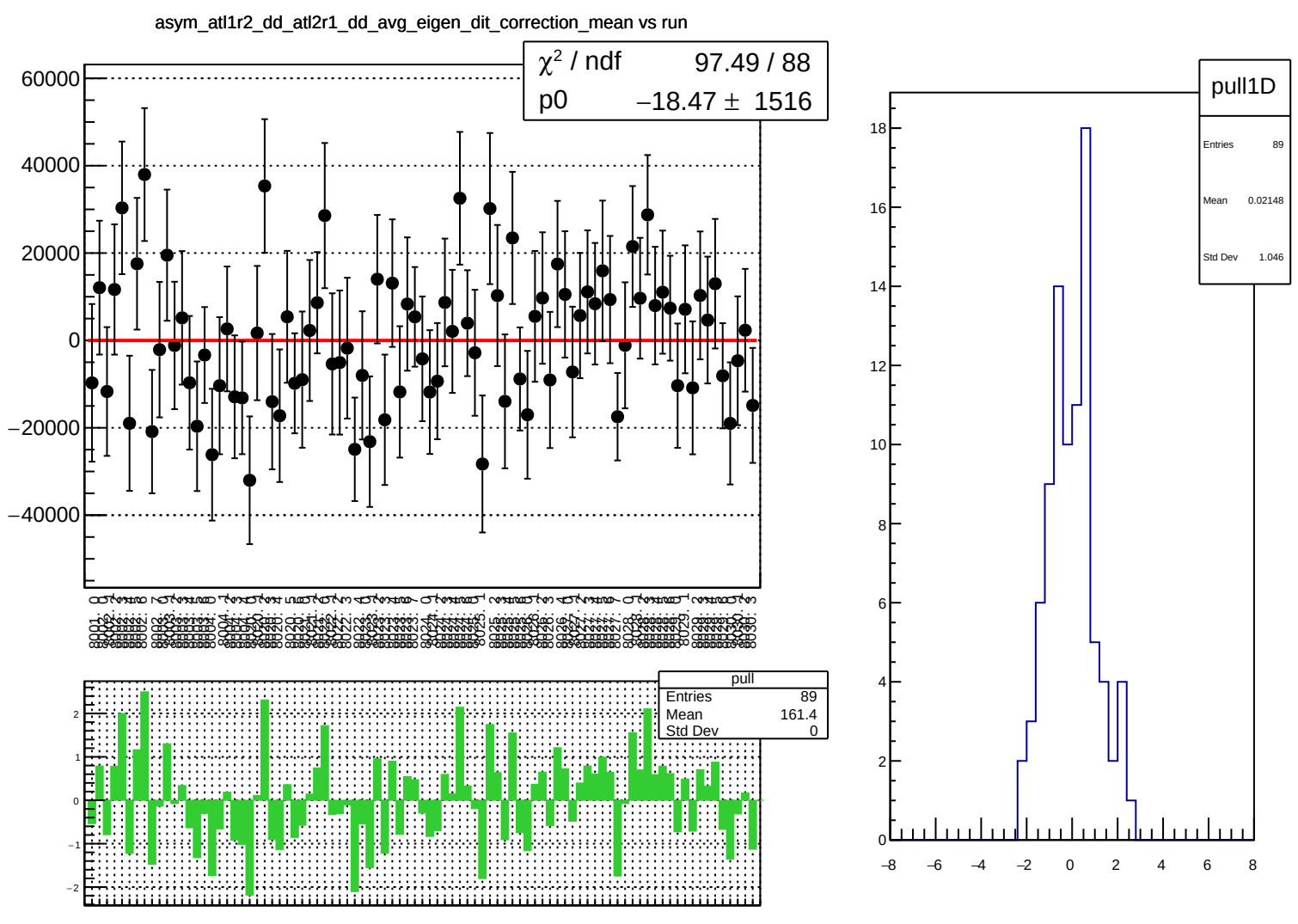

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_mean vs run
χ² / ndf 97.49 / 88
p0 −18.47 ± 1516
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 161.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.02148
Std Dev 1.046
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

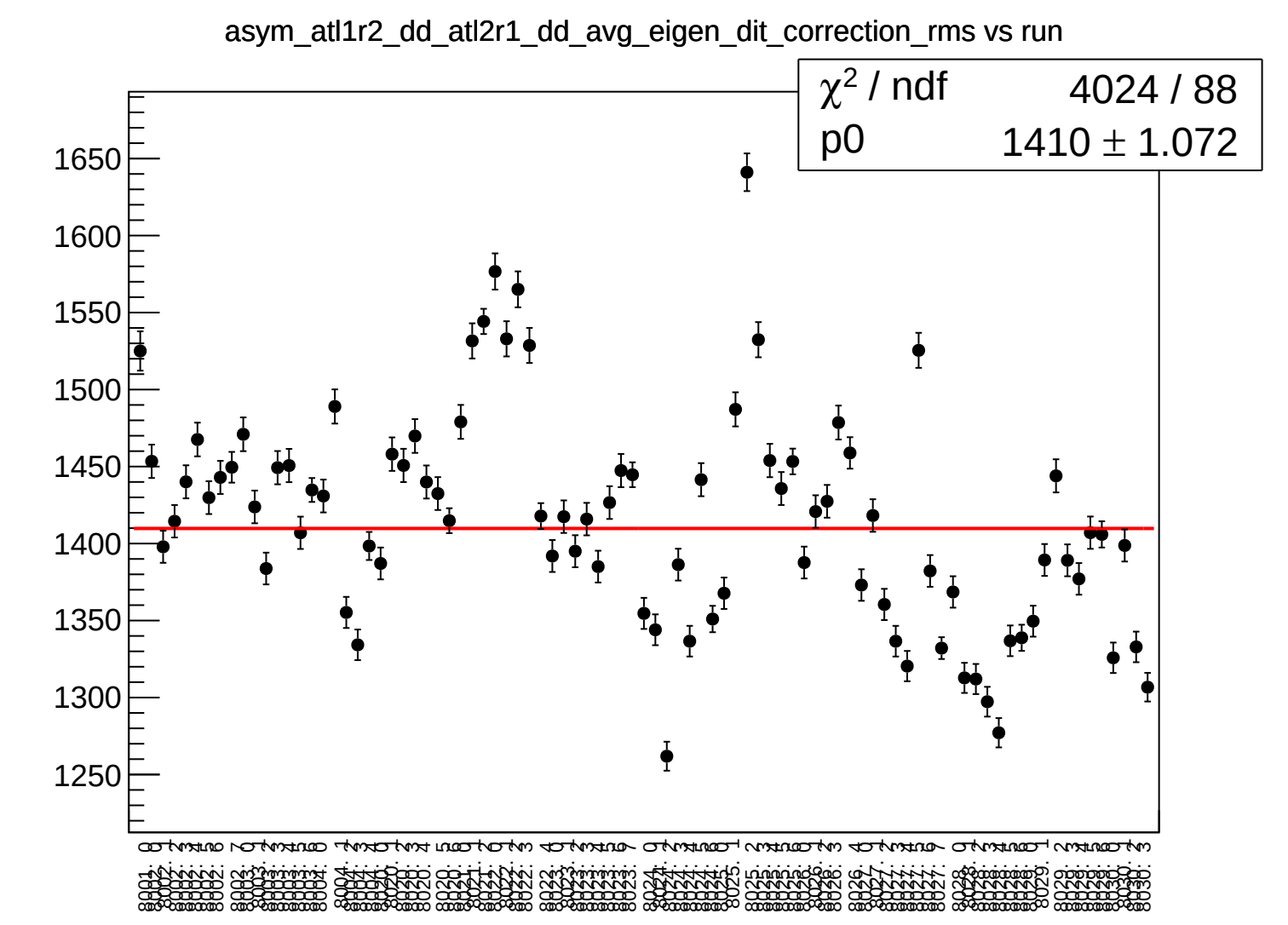

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_rms vs run
χ² / ndf 4024 / 88
p0 1410 ± 1.072
1650
1600
1550
1500
1450
1400
1350
1300
1250

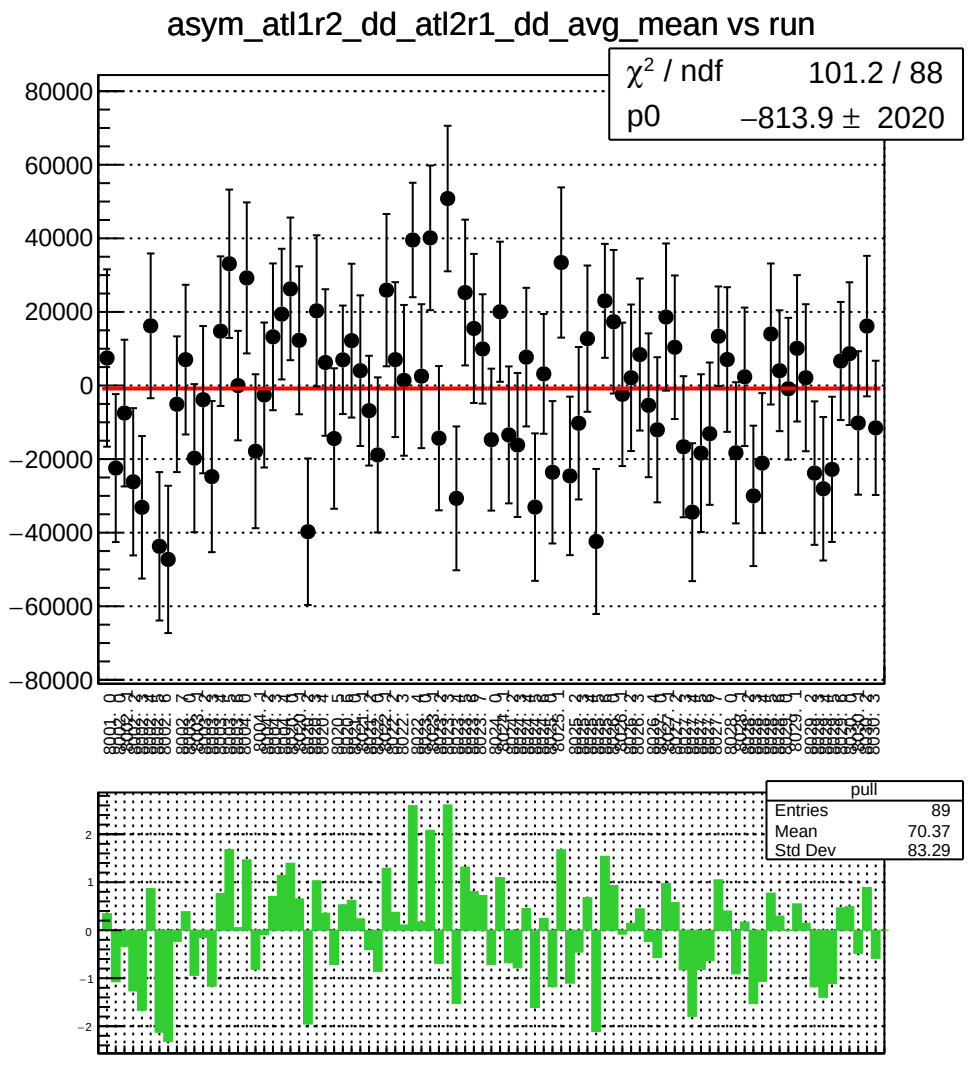

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 88.76 / 88
p0 −676.9 ± 1369
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −102.1
Std Dev 0
2
1
0
−1
−2

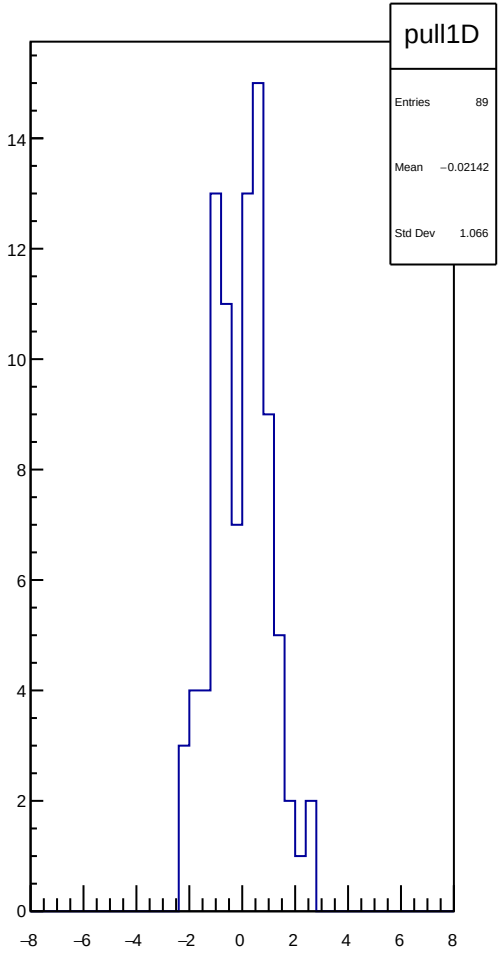

pull1D
Entries 89
Mean −0.01343
Std Dev 0.9985
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

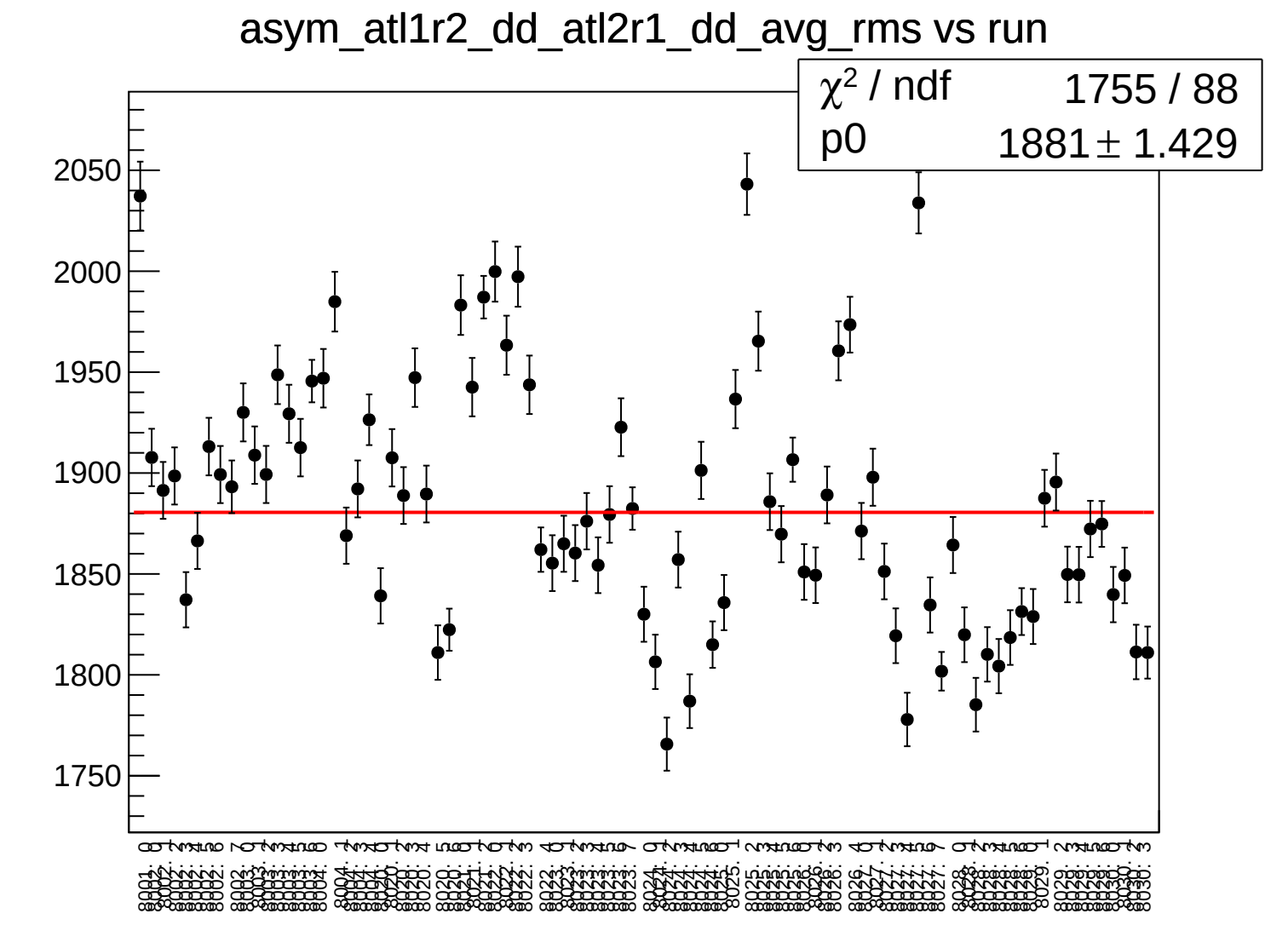

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 168.9 / 88
p0 1275 ± 0.9683
1320
1300
1280
1260
1240
1220

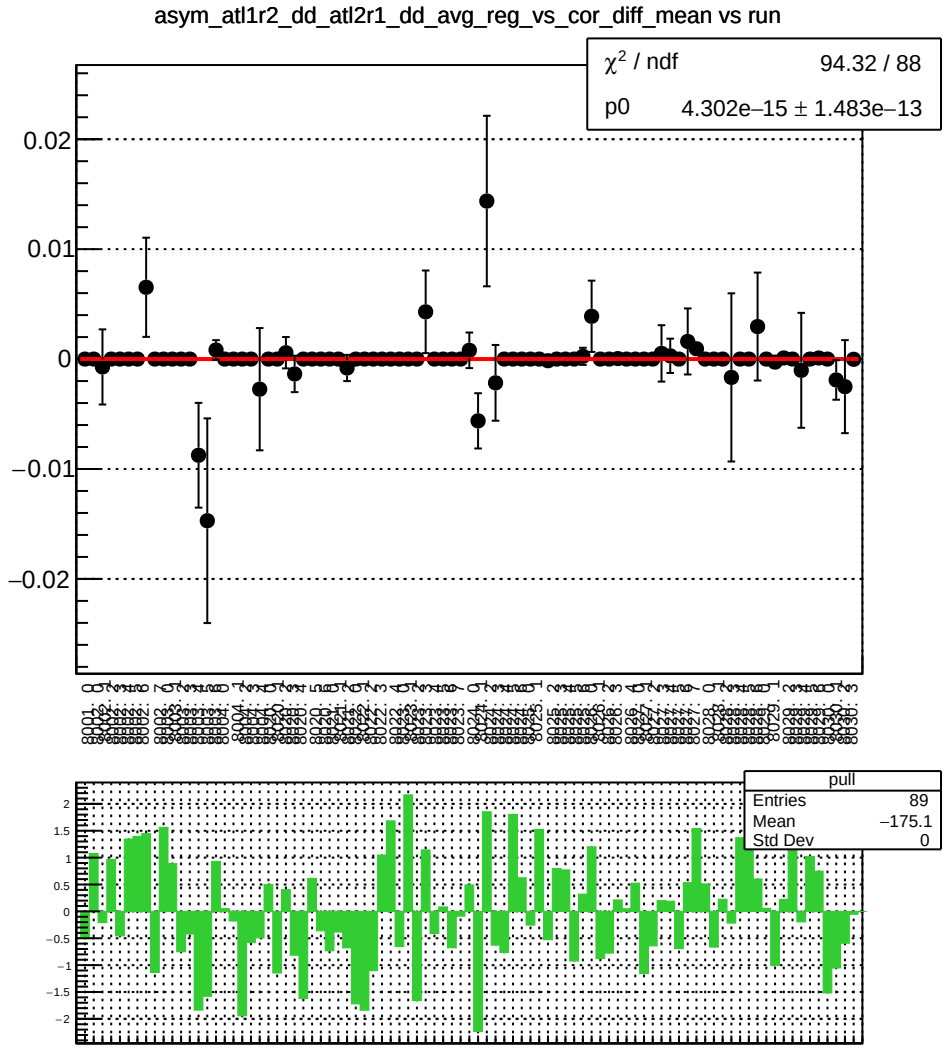

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 97.49 / 88
p0 −18.47 ± 1516
pull
Entries 89
Mean 161.4
Std Dev 0
pull1D
Entries 89
Mean 0.02148
Std Dev 1.046

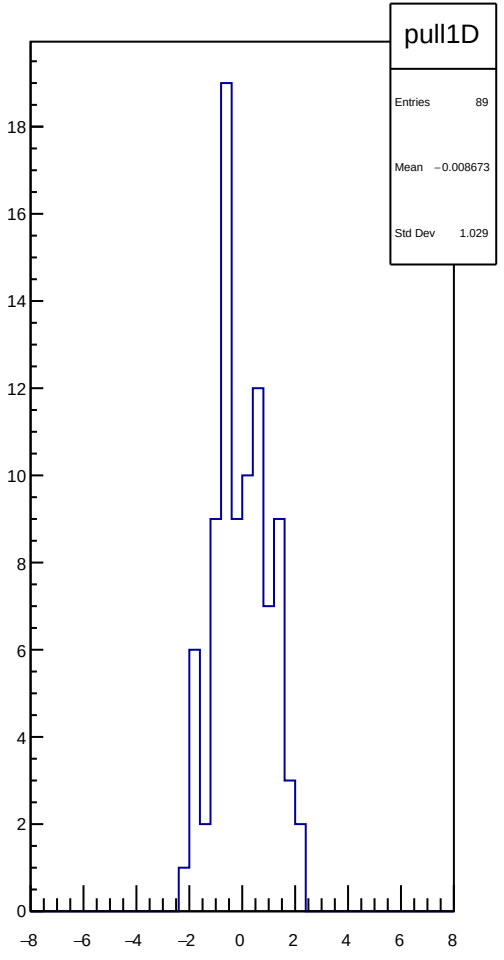

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 4024 / 88
p0 1410 ± 1.072
1650
1600
1550
1500
1450
1400
1350
1300
1250

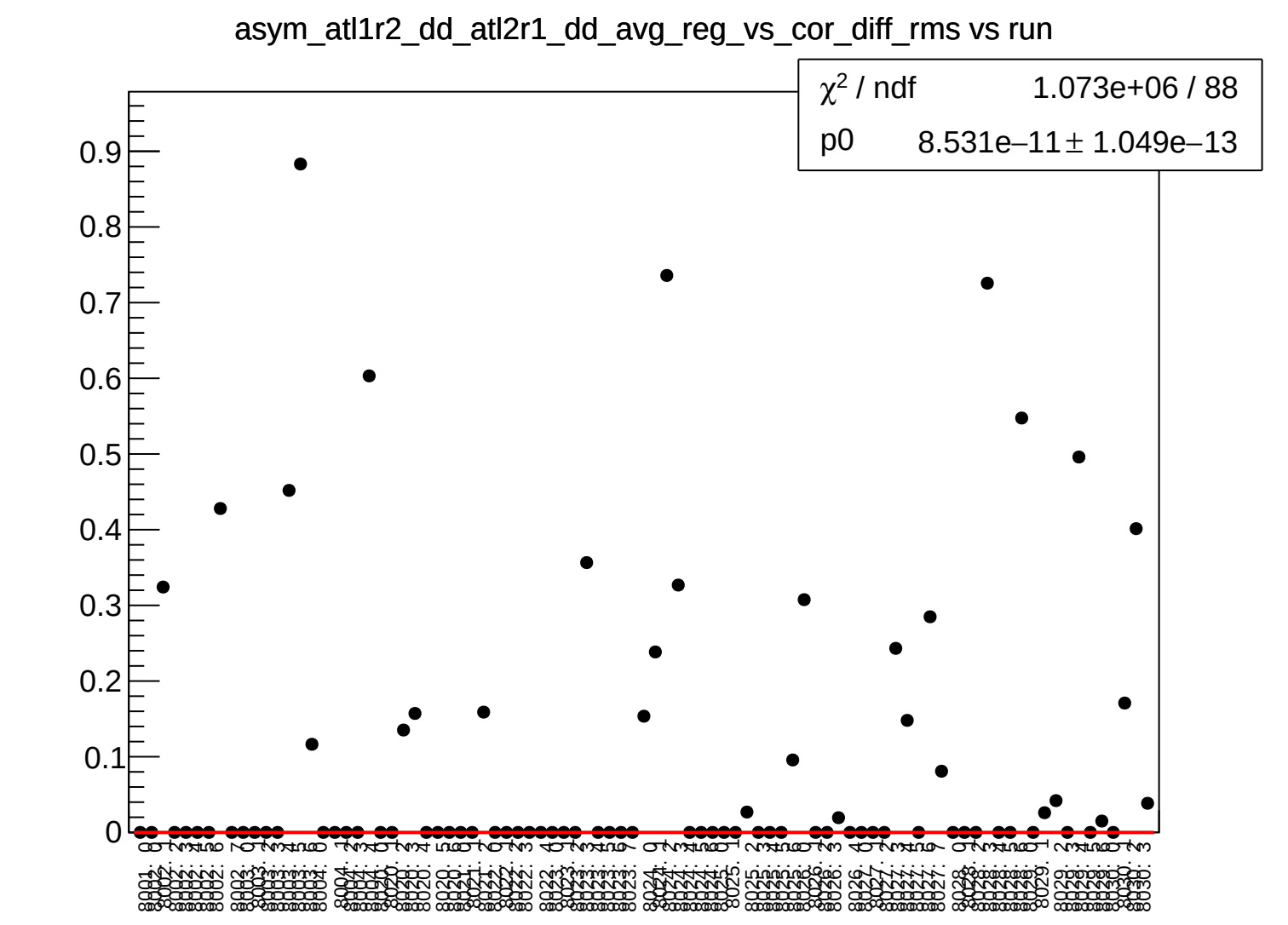

asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 101.2 / 88
p0 −813.9 ± 2020
pull
Entries 89
Mean 70.37
Std Dev 83.29

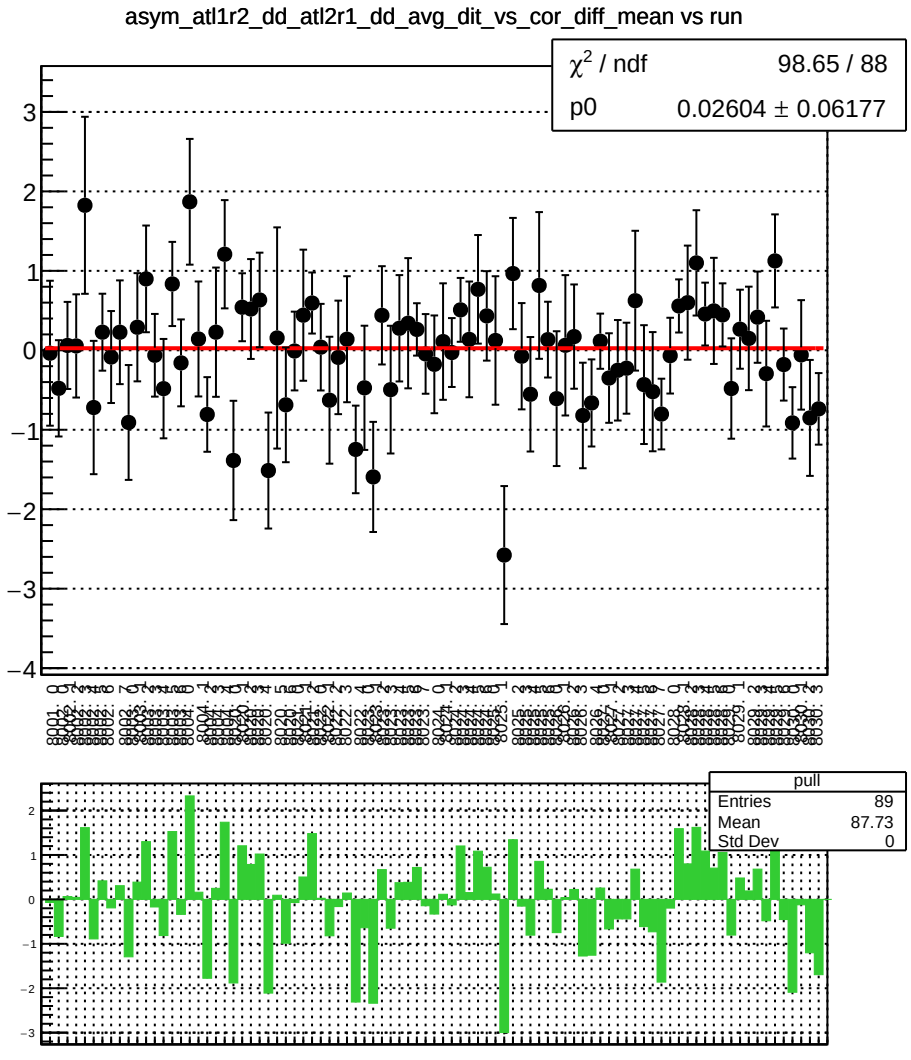

pull1D
Entries 89
Mean −0.02142
Std Dev 1.066

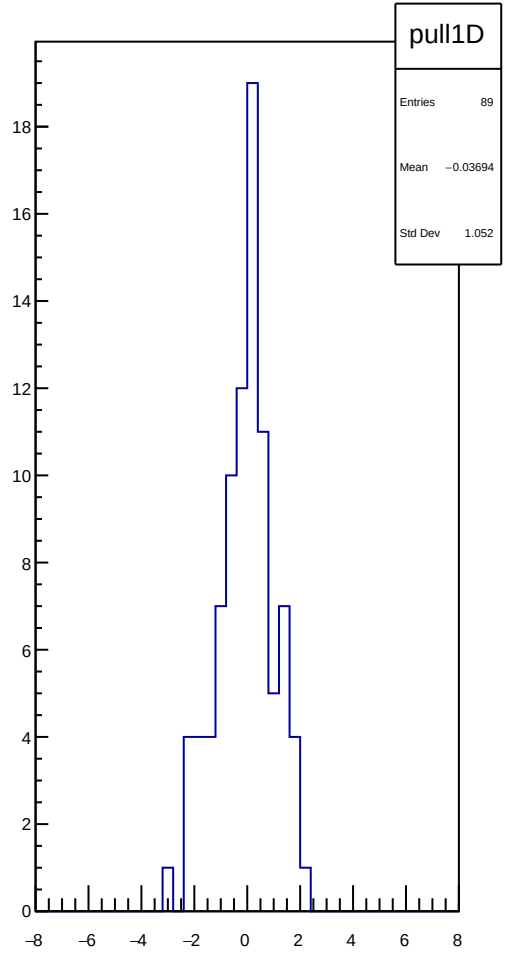

asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 1755 / 88
p0 1881 ± 1.429
2050
2000
1950
1900
1850
1800
1750

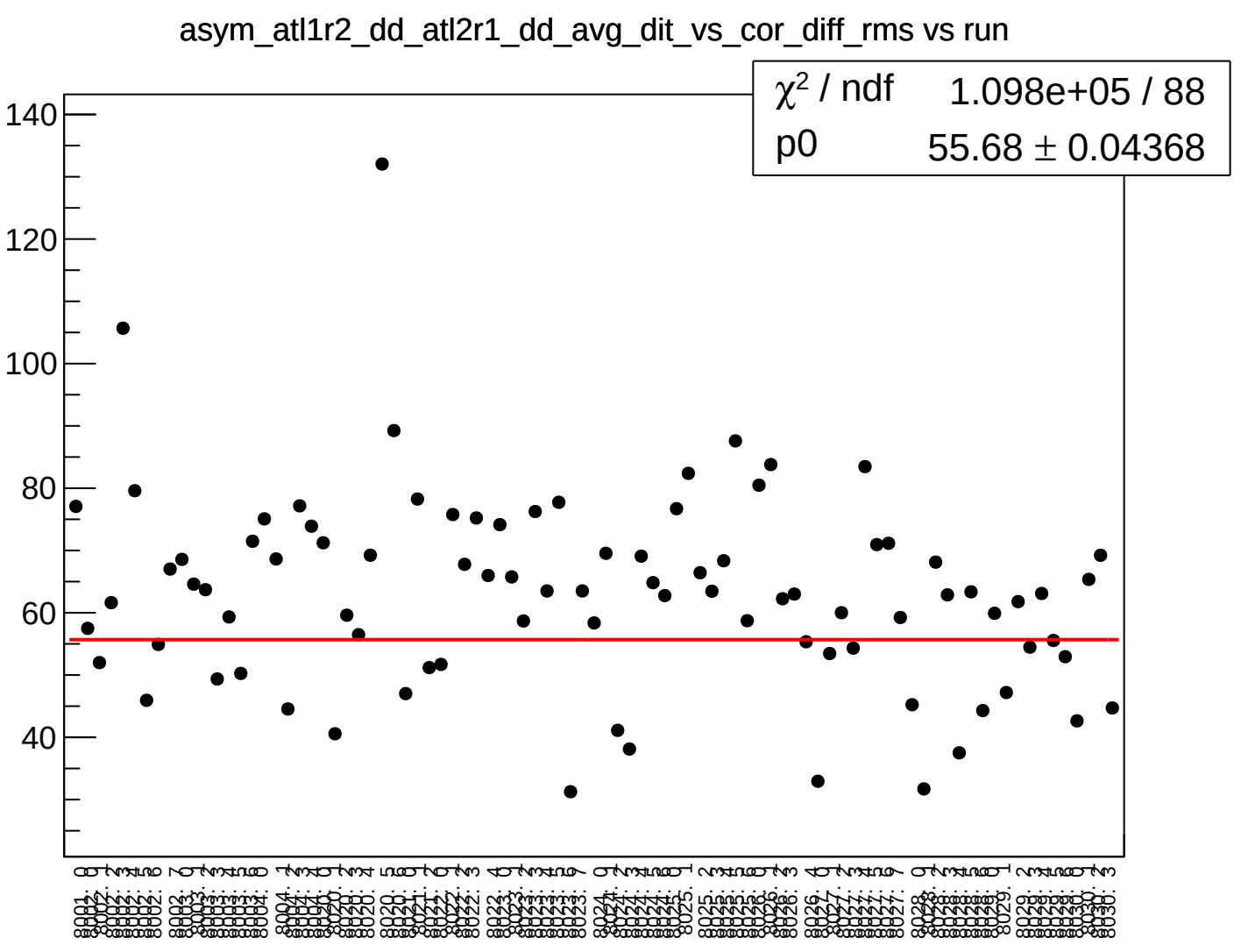

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 94.32 / 88
p0 4.302e−15 ± 1.483e−13
0.02
0.01
0
−0.01
−0.02
pull
Entries 89
Mean −175.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

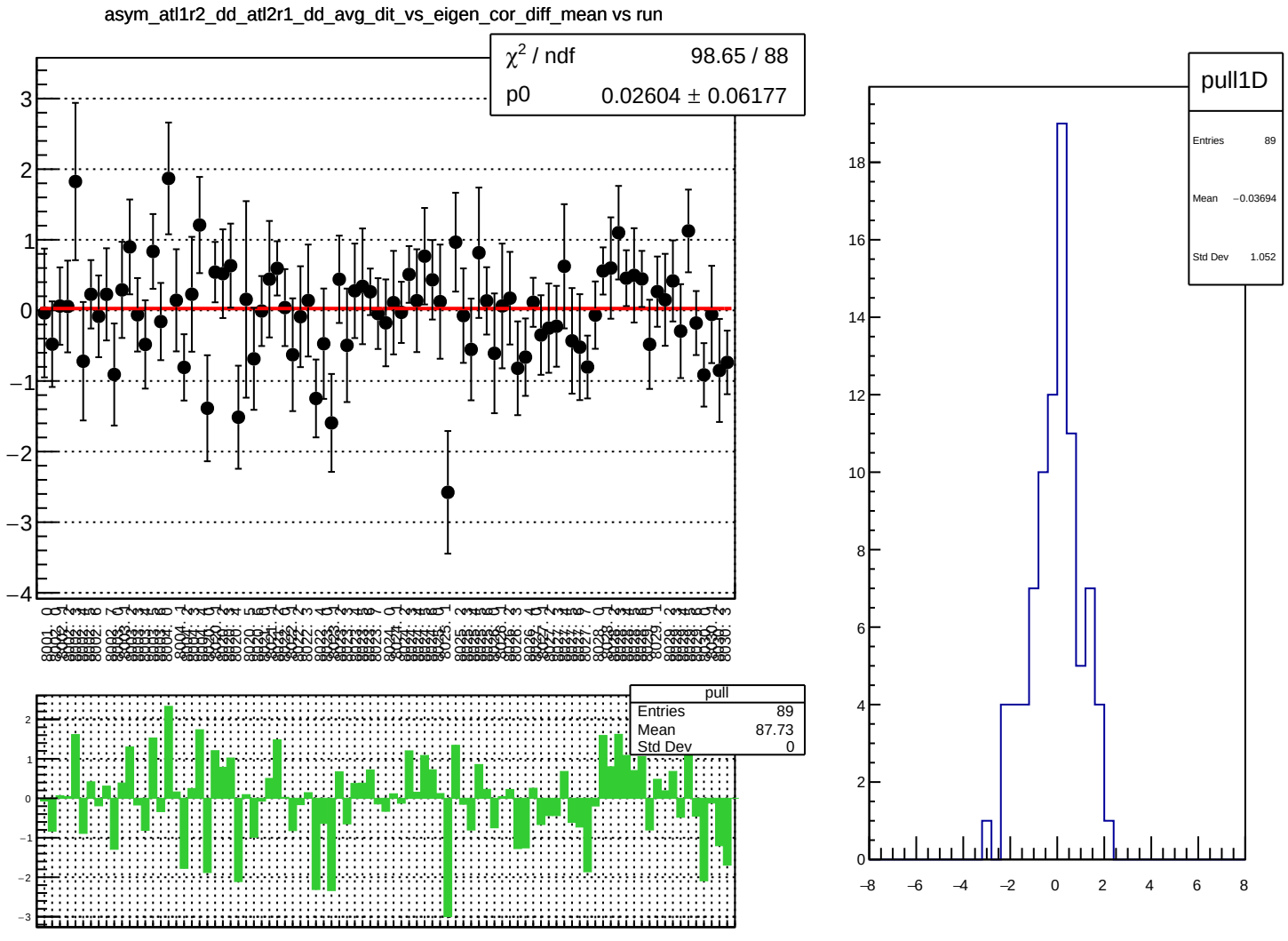

pull1D
Entries 89
Mean −0.008673
Std Dev 1.029
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

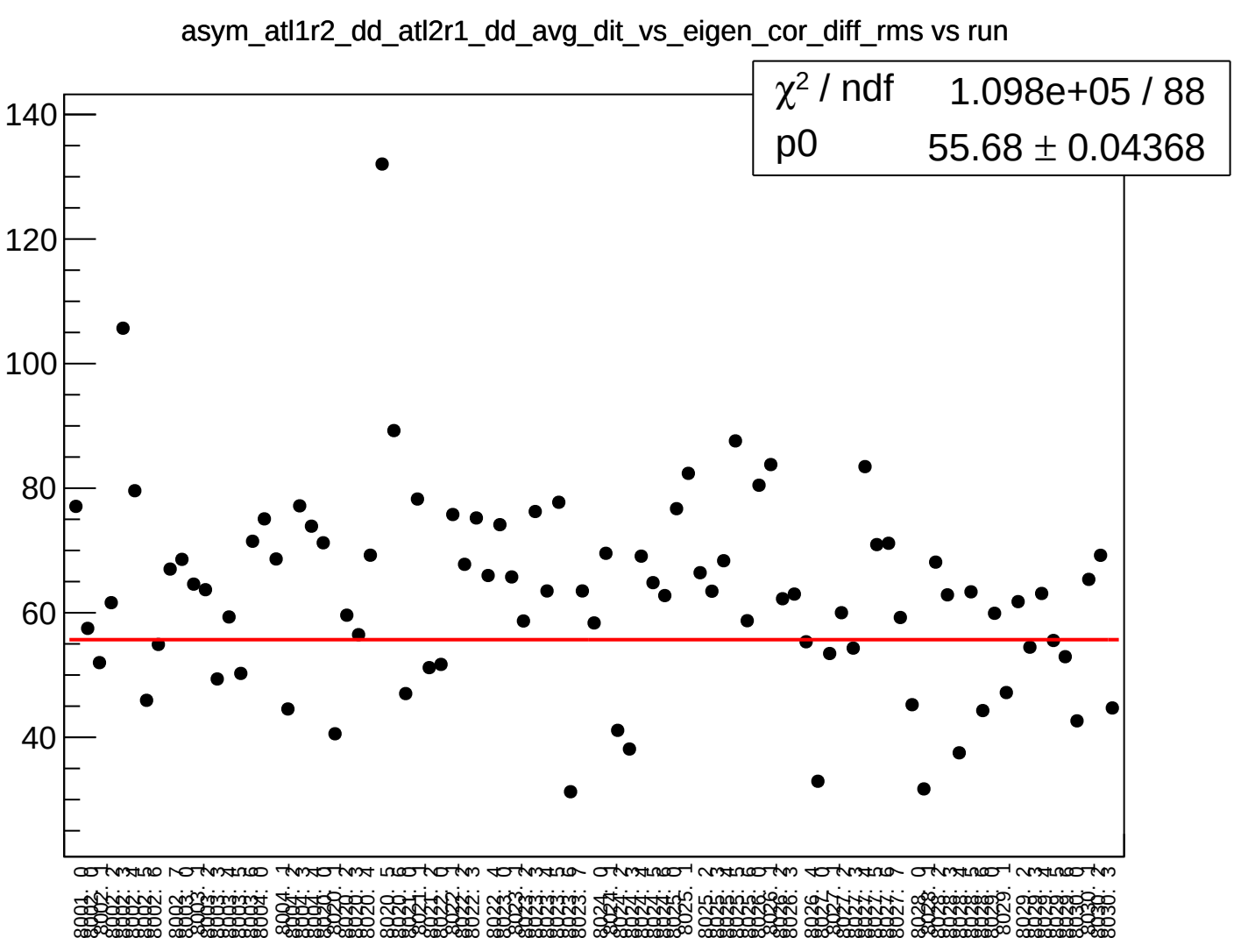

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.073e+06 / 88
p0 8.531e−11 ± 1.049e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

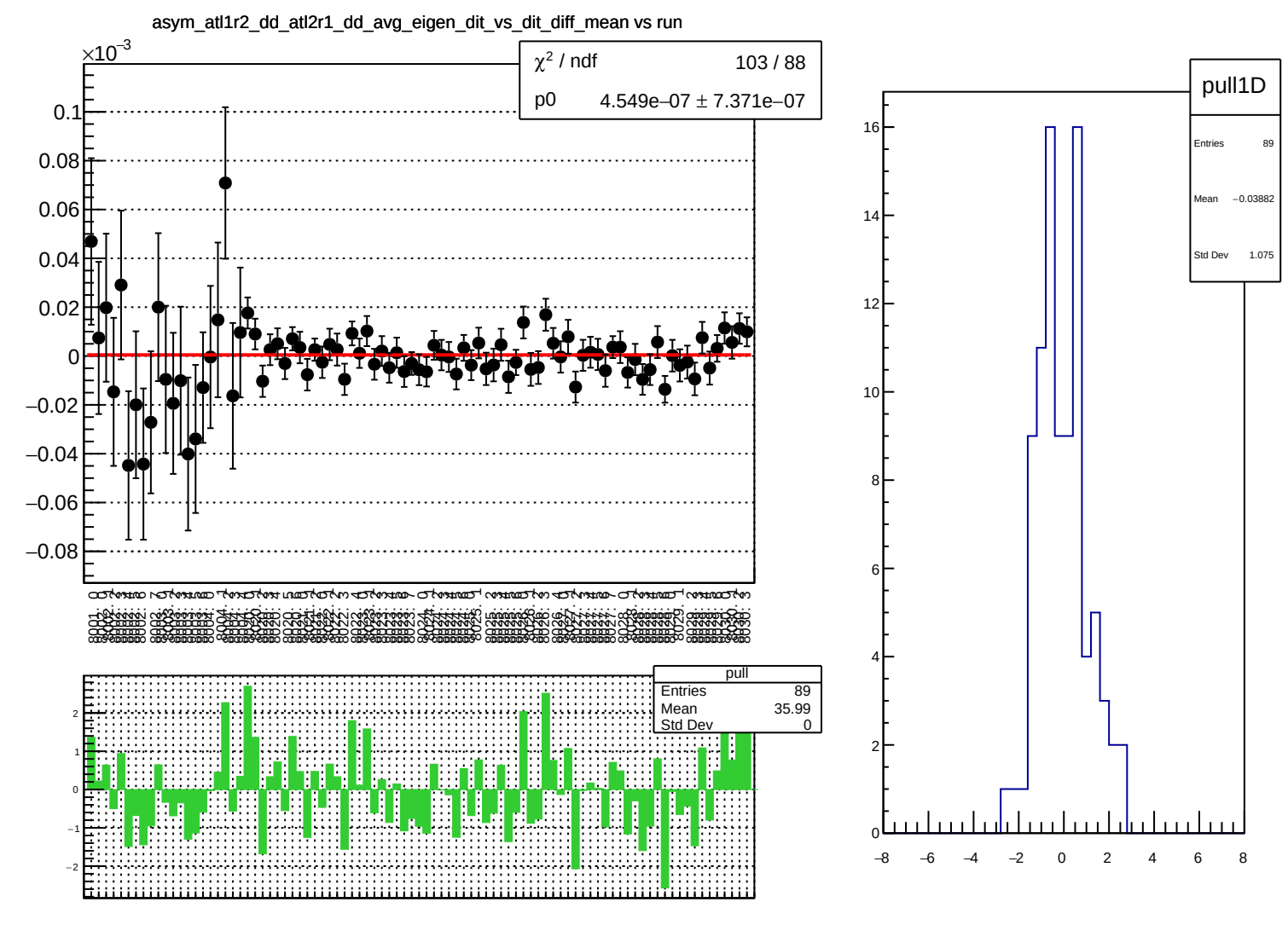

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 98.65 / 88
p0 0.02604 ± 0.06177
pull
Entries 89
Mean 87.73
Std Dev 0

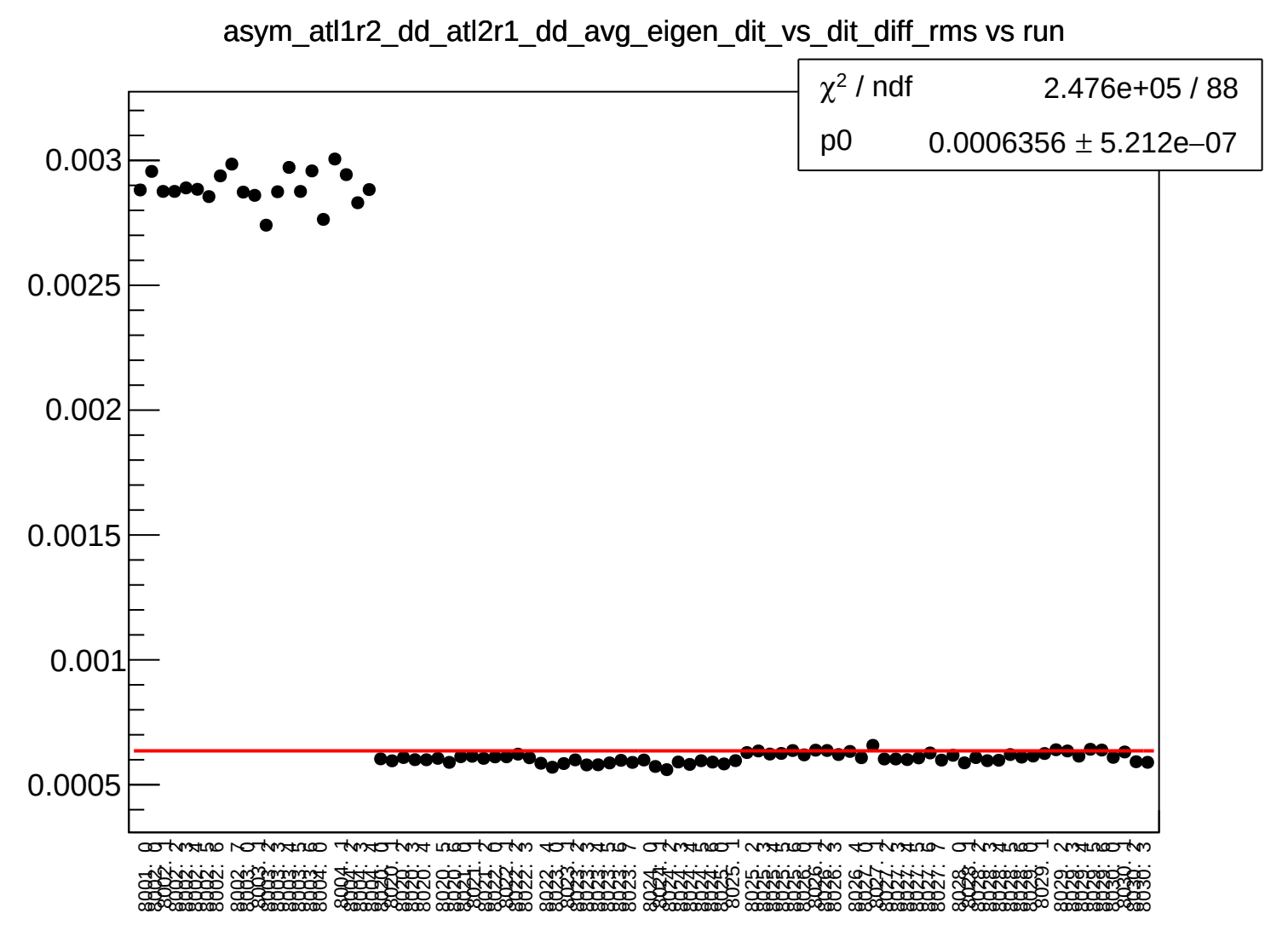

pull1D
Entries 89
Mean −0.03694
Std Dev 1.052

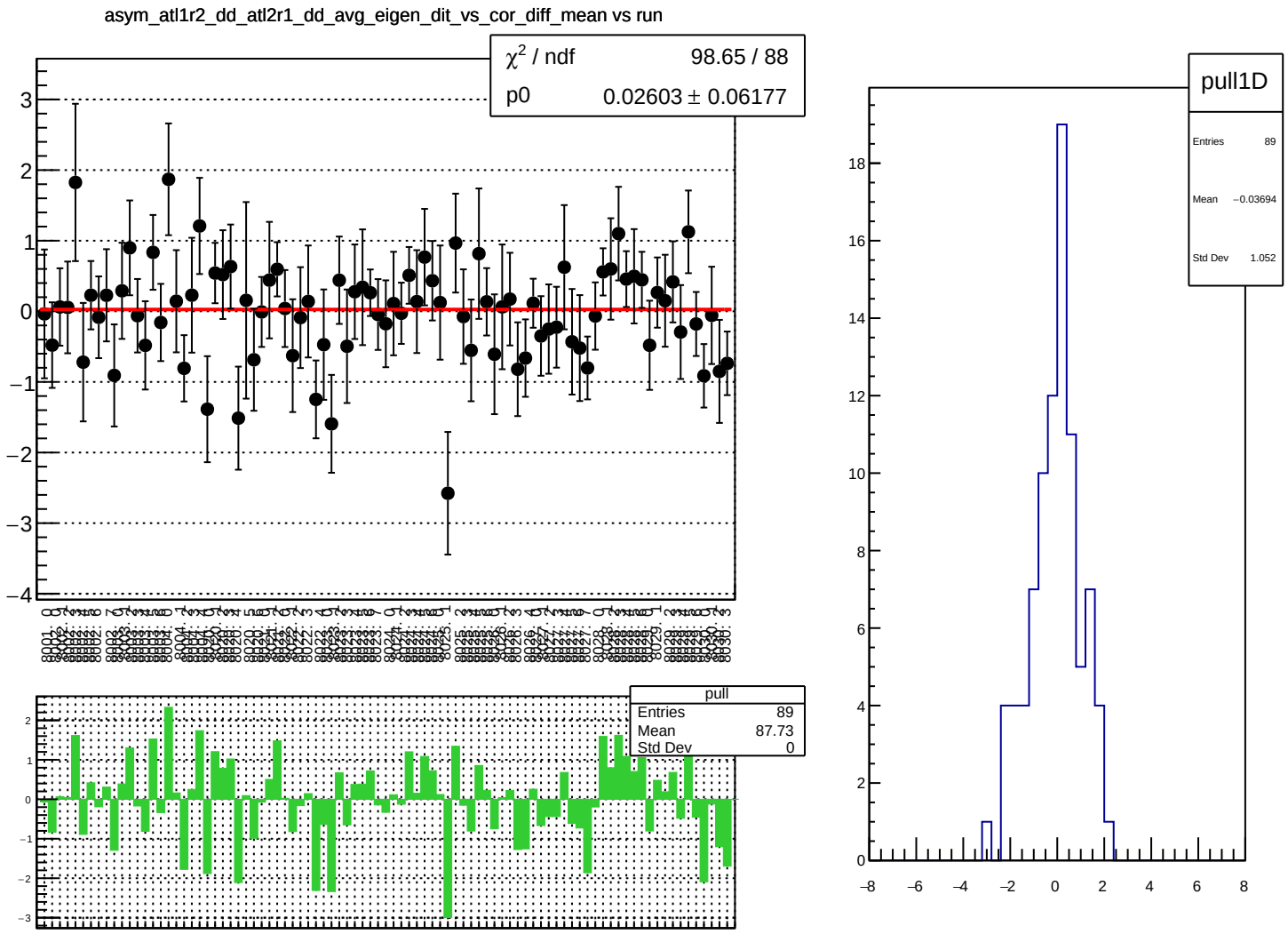

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.098e+05 / 88
p0 55.68 ± 0.04368
140
120
100
80
60
40

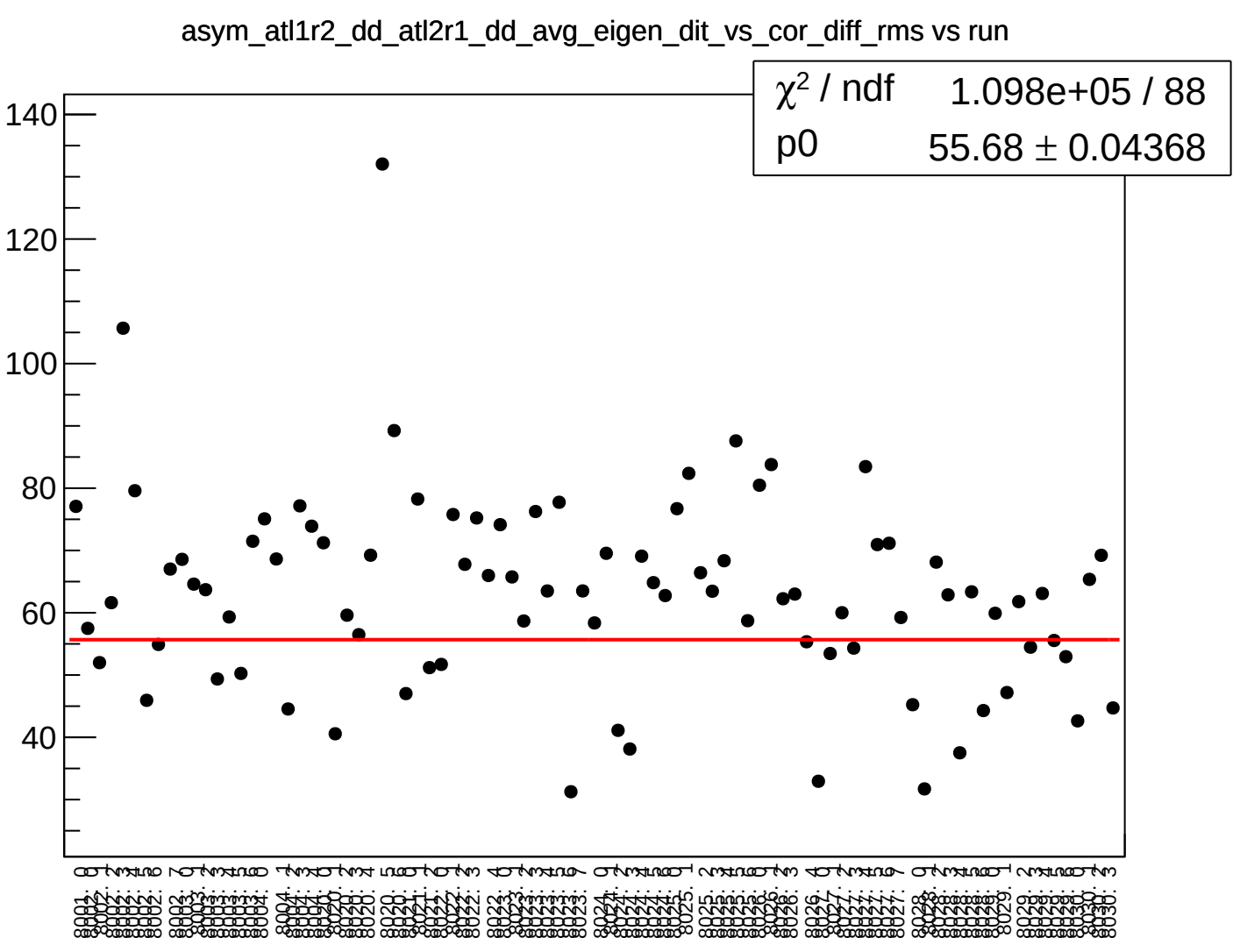

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.65 / 88
p0 0.02604 ± 0.06177
pull
Entries 89
Mean 87.73
Std Dev 0
pull1D
Entries 89
Mean −0.03694
Std Dev 1.052

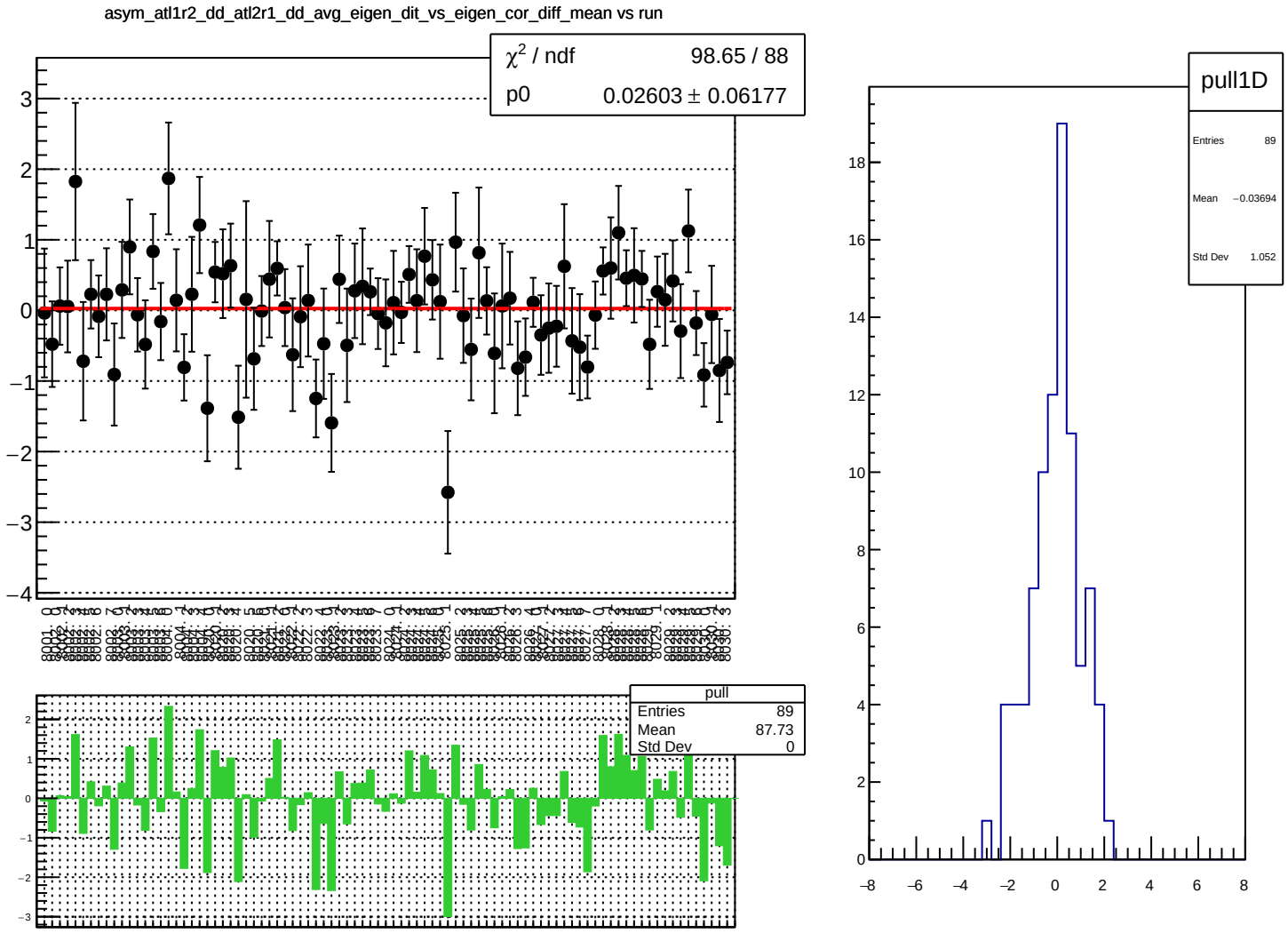

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.098e+05 / 88
p0 55.68 ± 0.04368
140
120
100
80
60
40

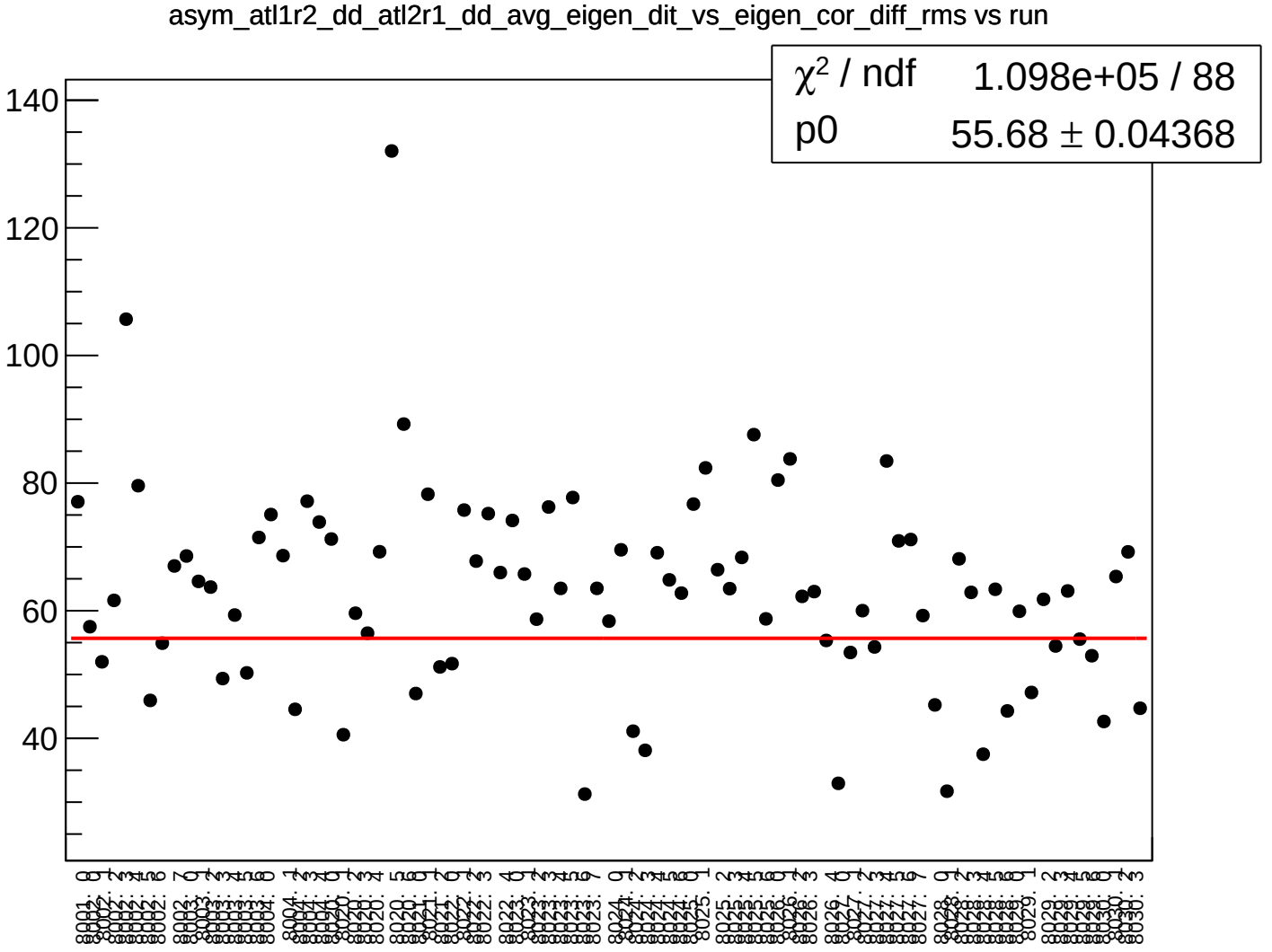

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 103 / 88
p0 4.549e−07 ± 7.371e−07
pull
Entries 89
Mean 35.99
Std Dev 0
pull1D
Entries 89
Mean −0.03882
Std Dev 1.075

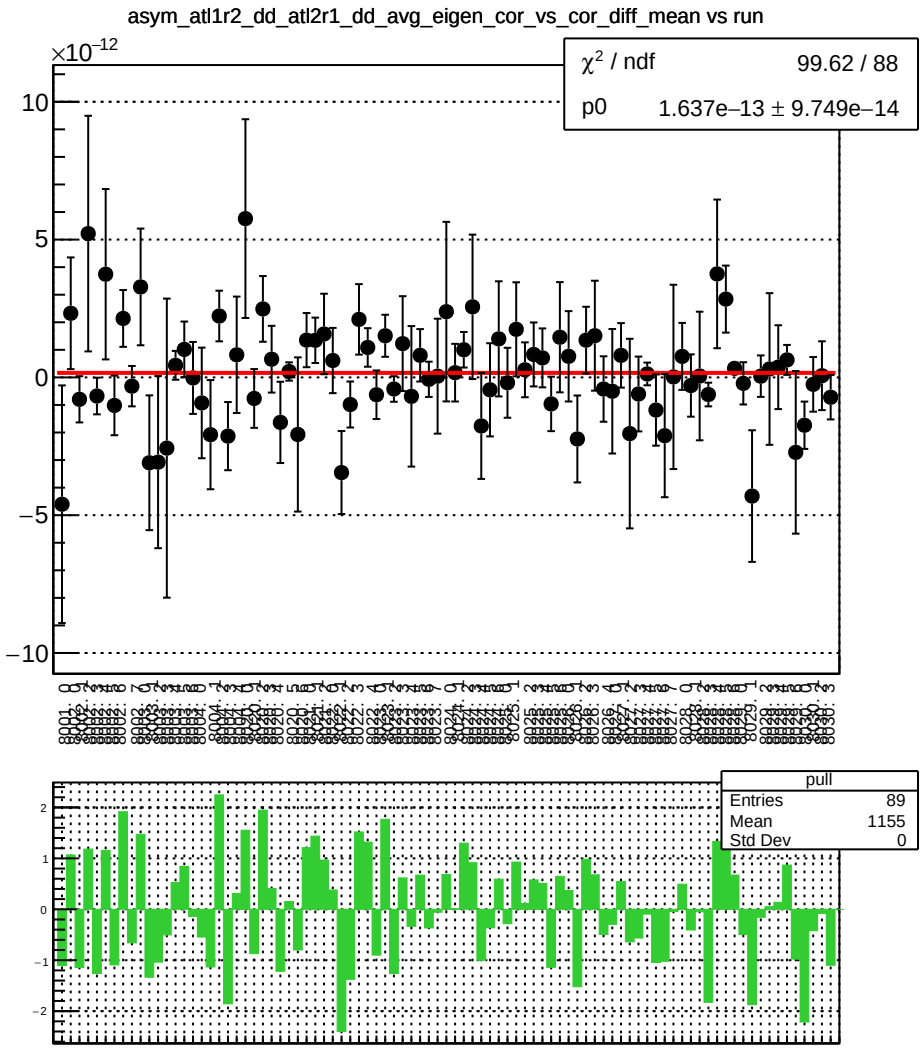

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.476e+05 / 88
p0 0.0006356 ± 5.212e−07
0.003
0.0025
0.002
0.0015
0.001
0.0005

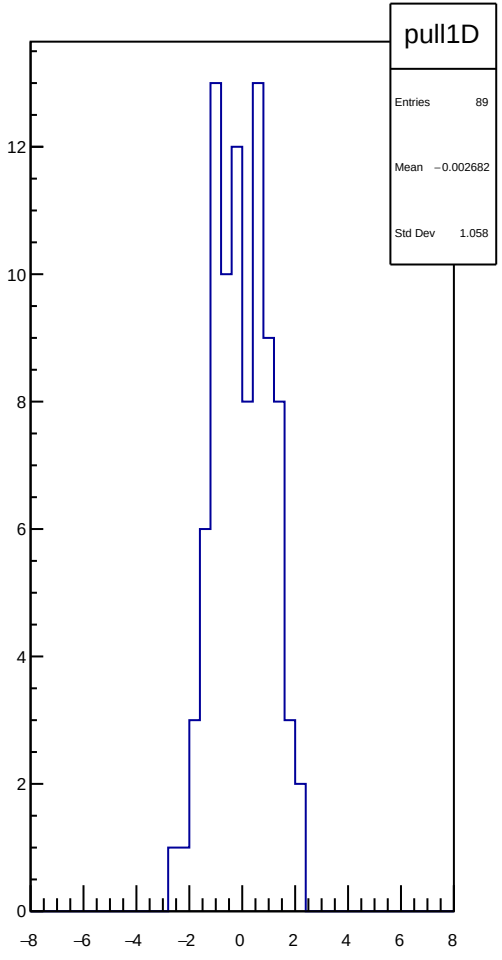

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 98.65 / 88
p0 0.02603 ± 0.06177
pull
Entries 89
Mean 87.73
Std Dev 0
pull1D
Entries 89
Mean −0.03694
Std Dev 1.052

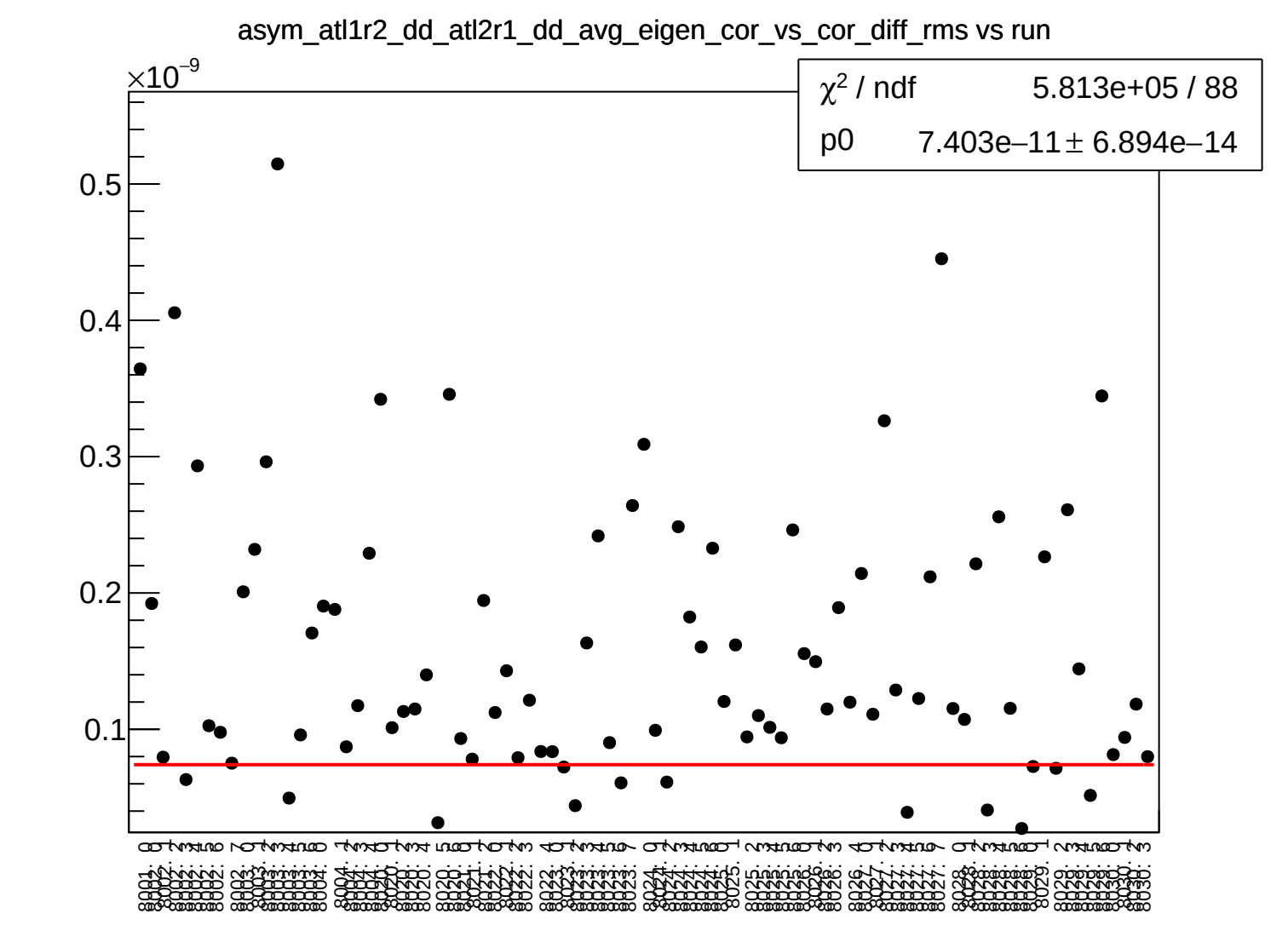

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.098e+05 / 88
p0 55.68 ± 0.04368
140
120
100
80
60
40

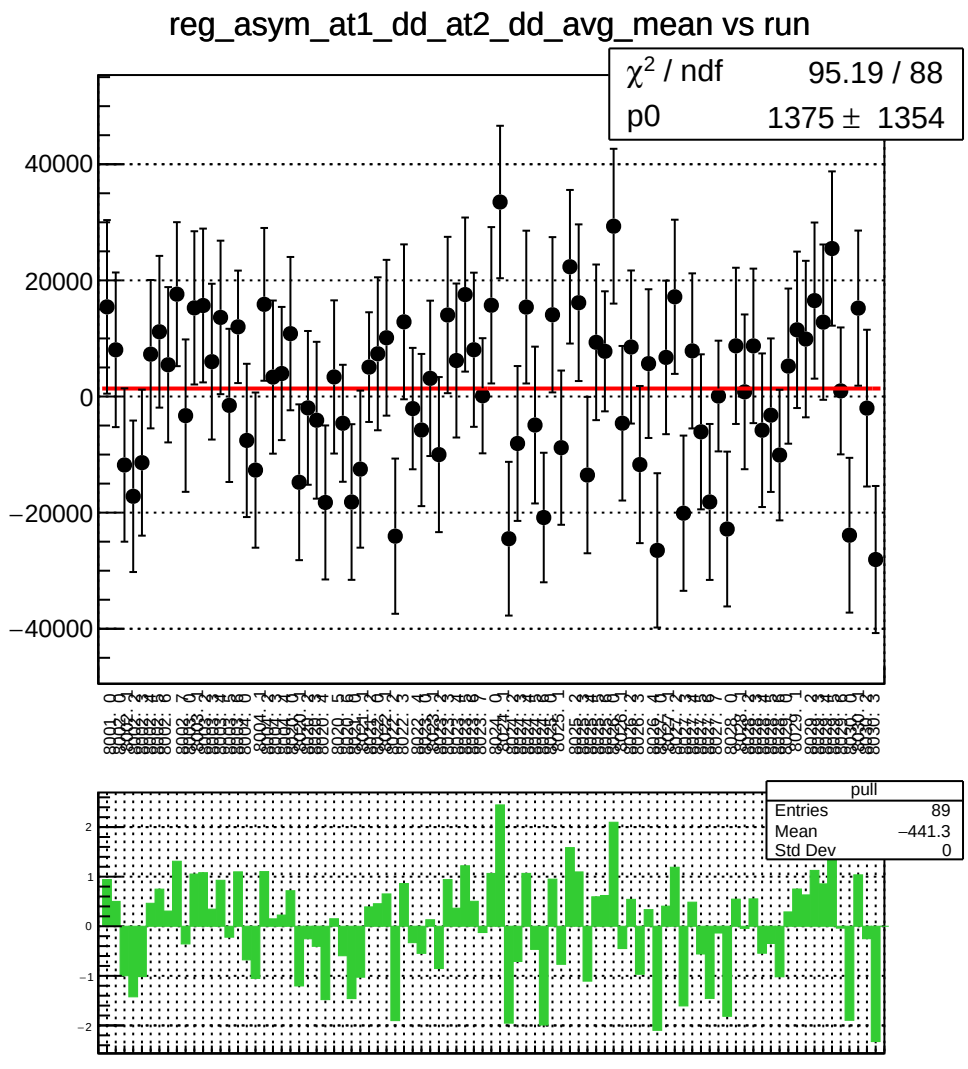

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.65 / 88
p0 0.02603 ± 0.06177
pull
Entries 89
Mean 87.73
Std Dev 0
pull1D
Entries 89
Mean −0.03694
Std Dev 1.052

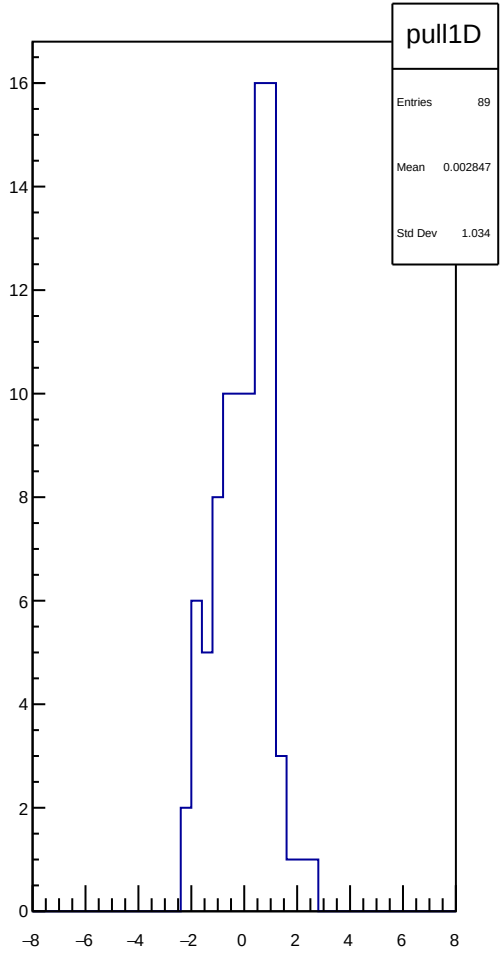

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.098e+05 / 88
p0 55.68 ± 0.04368
140
120
100
80
60
40

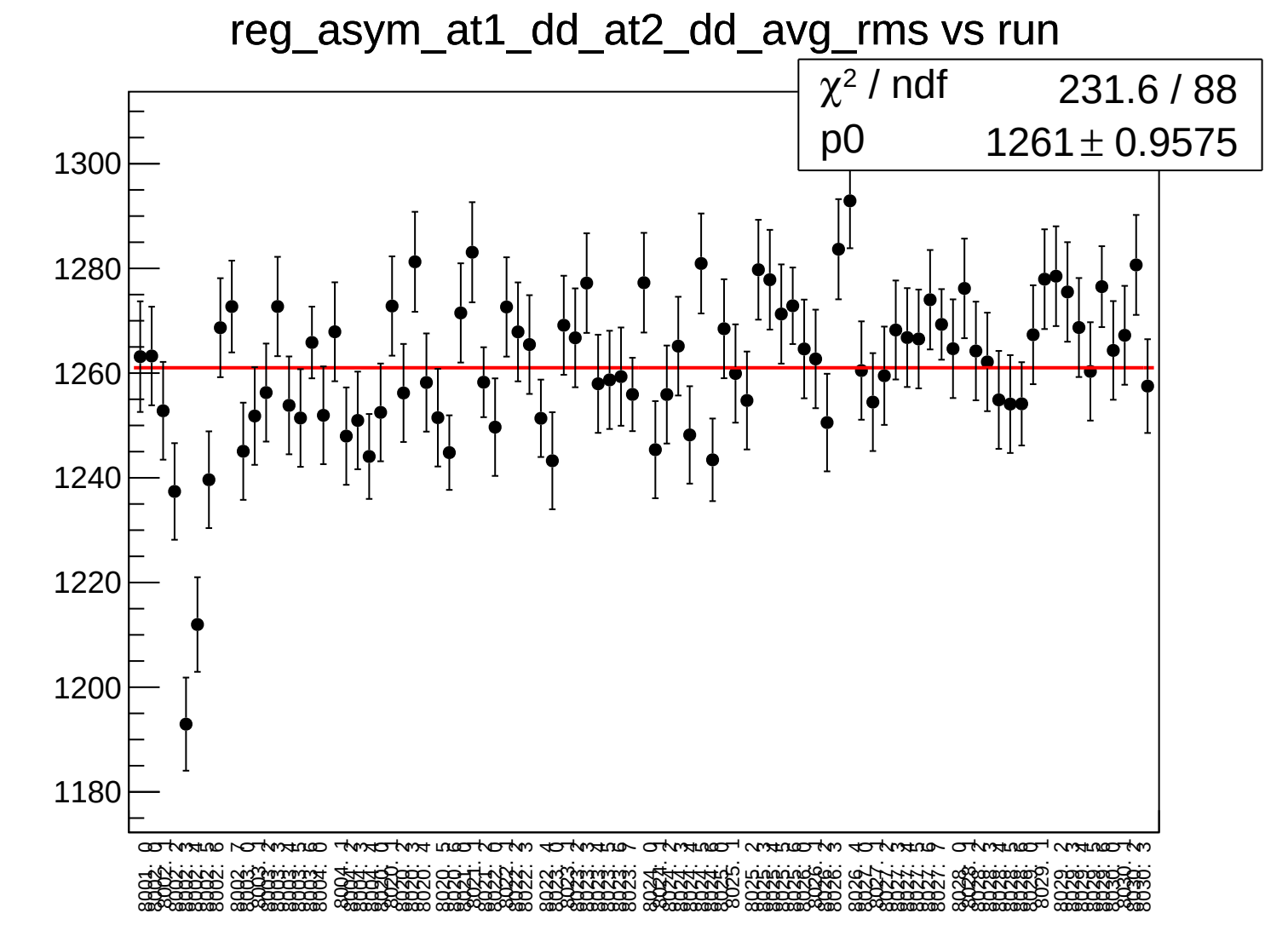

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.62 / 88
p0 1.637e−13 ± 9.749e−14
pull
Entries 89
Mean 1155
Std Dev 0

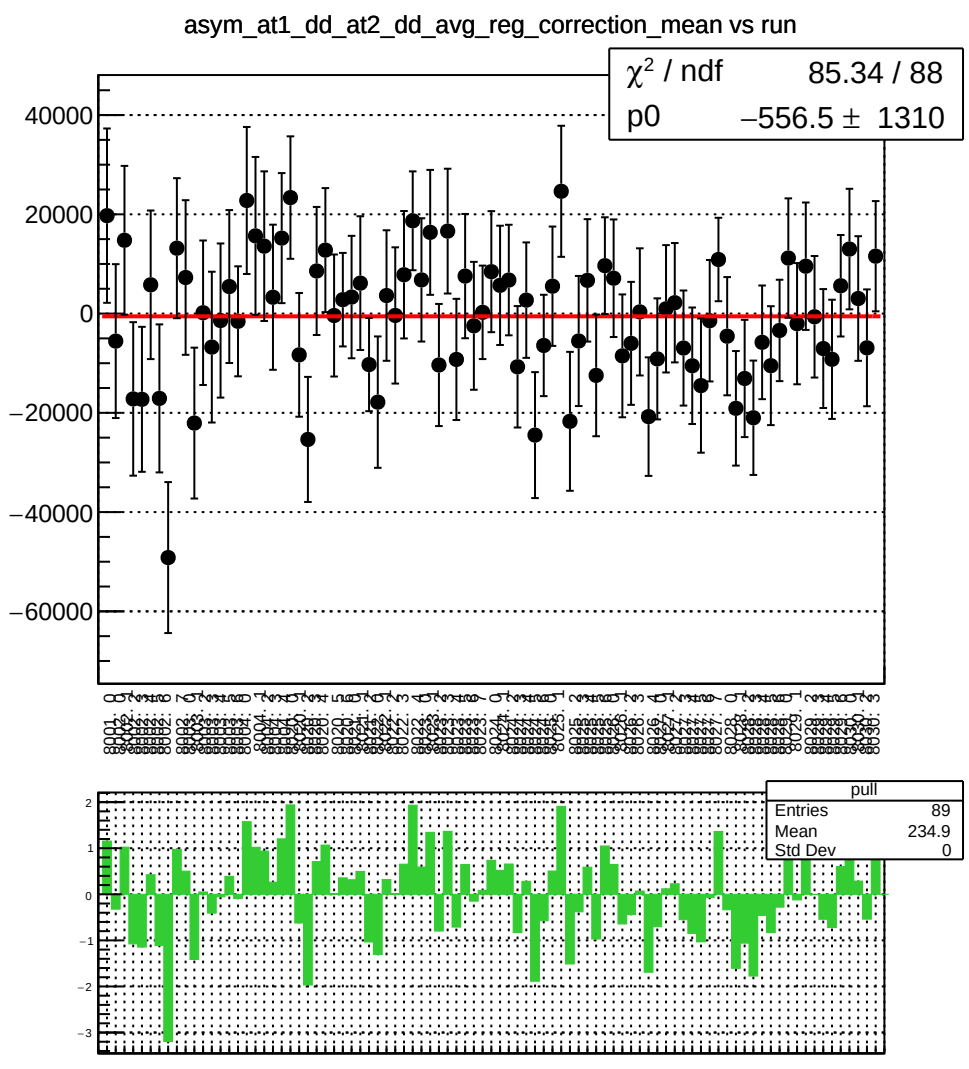

pull1D
Entries 89
Mean −0.002682
Std Dev 1.058

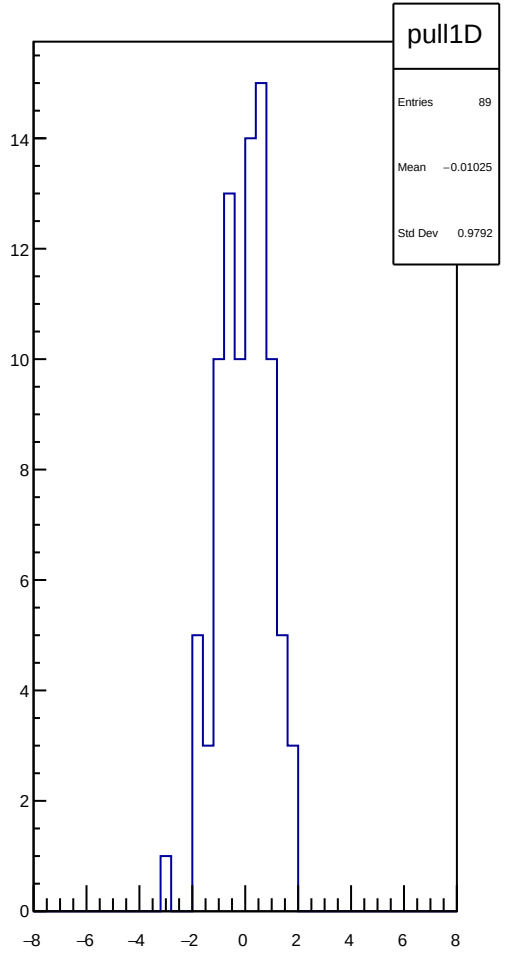

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.813e+05 / 88
p0 7.403e−11 ± 6.894e−14
0.5
0.4
0.3
0.2
0.1

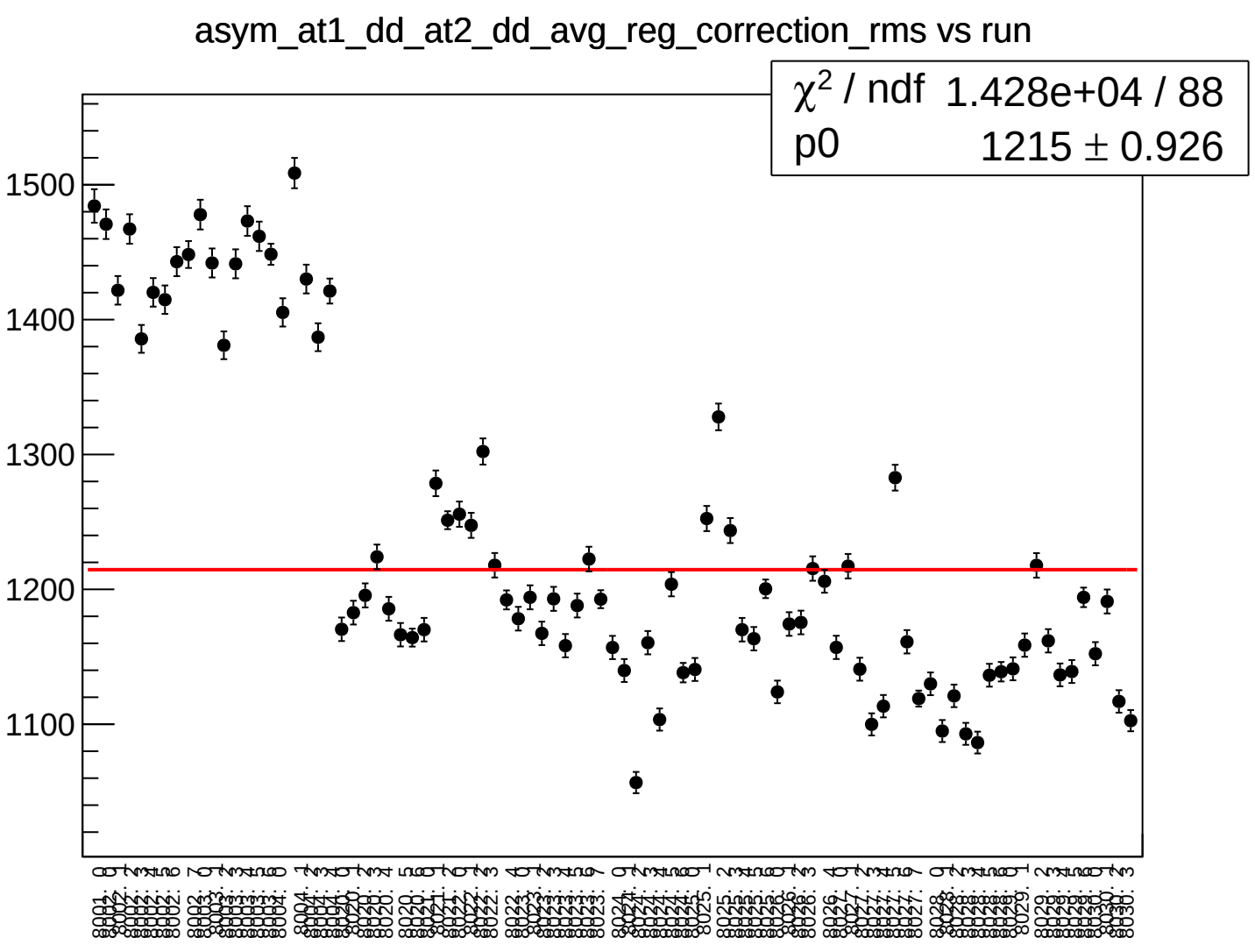

reg_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 95.19 / 88
p0 1375 ± 1354
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −441.3
Std Dev 0
2
1
0
−1
−2

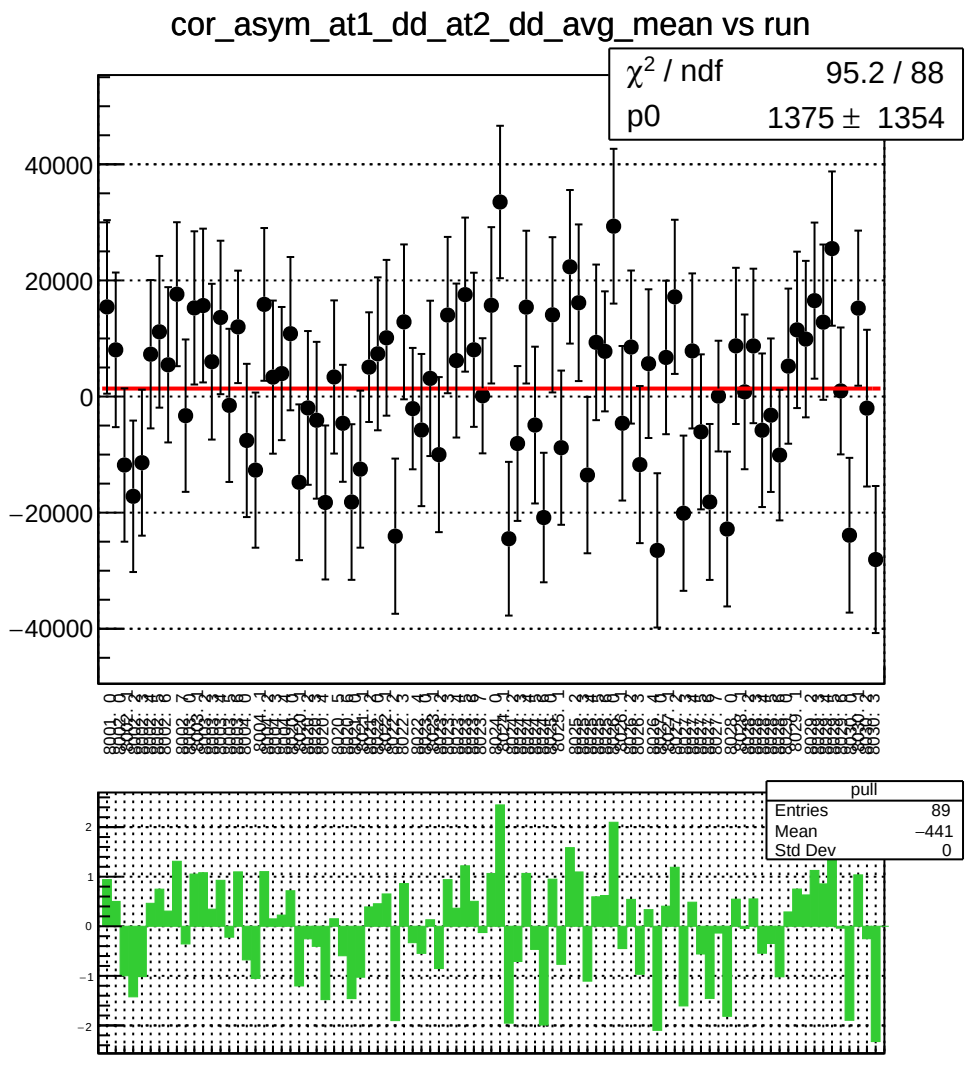

pull1D
Entries 89
Mean 0.002847
Std Dev 1.034
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

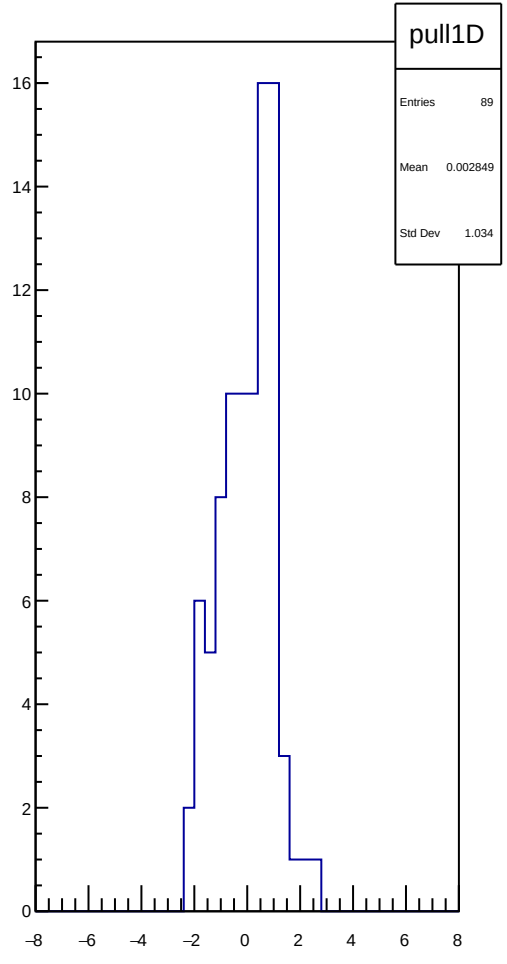

reg_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 231.6 / 88
p0 1261 ± 0.9575
1300
1280
1260
1240
1220
1200
1180

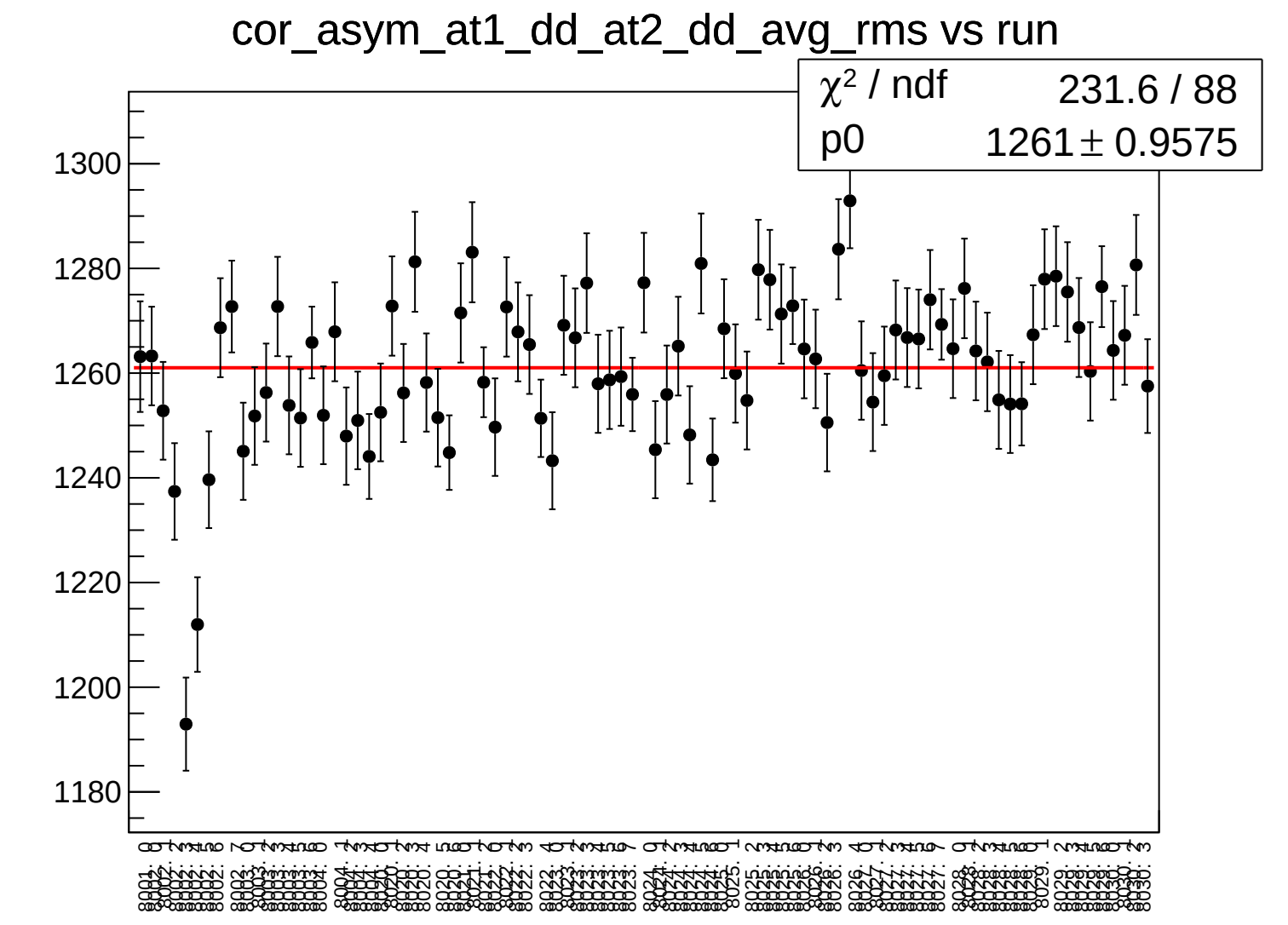

asym_at1_dd_at2_dd_avg_reg_correction_mean vs run
χ² / ndf 85.34 / 88
p0 −556.5 ± 1310
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 234.9
Std Dev 0
2
1
0
−1
−2
−3

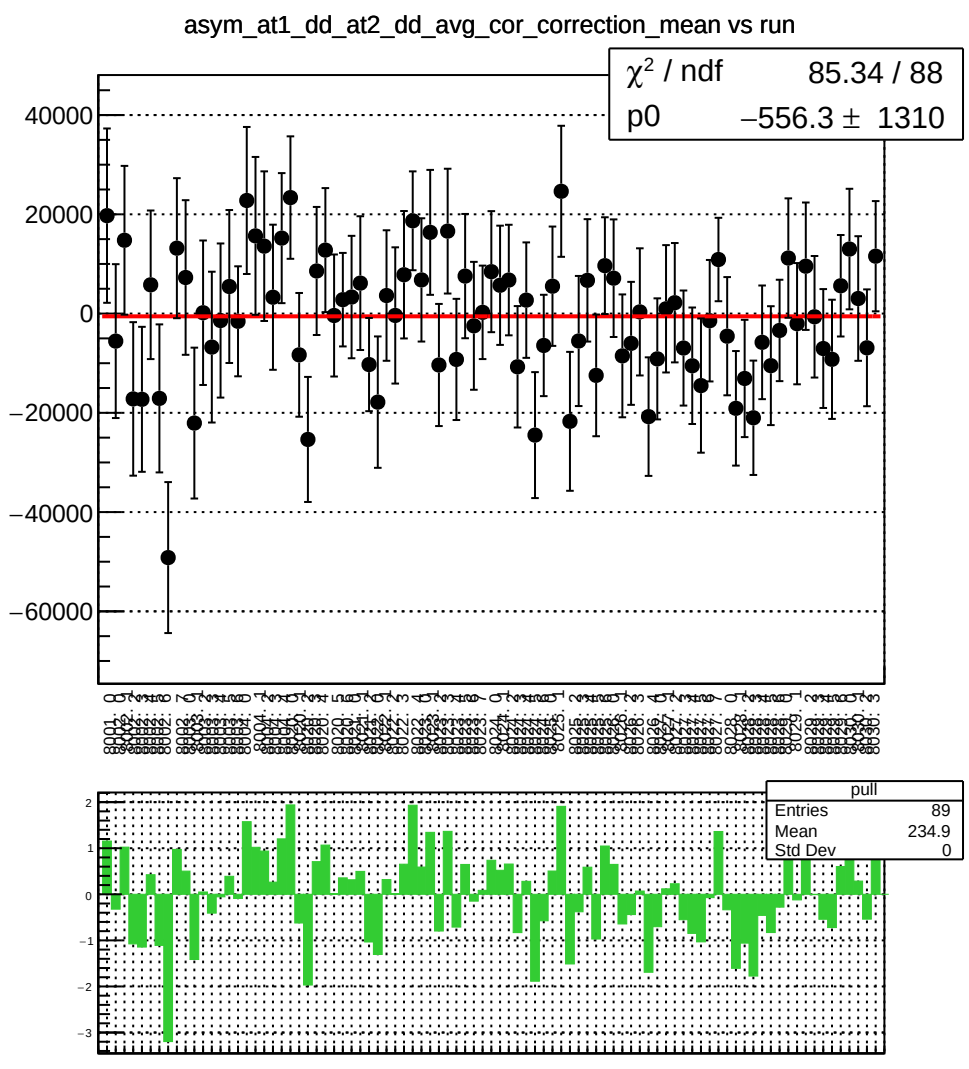

pull1D
Entries 89
Mean −0.01025
Std Dev 0.9792
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

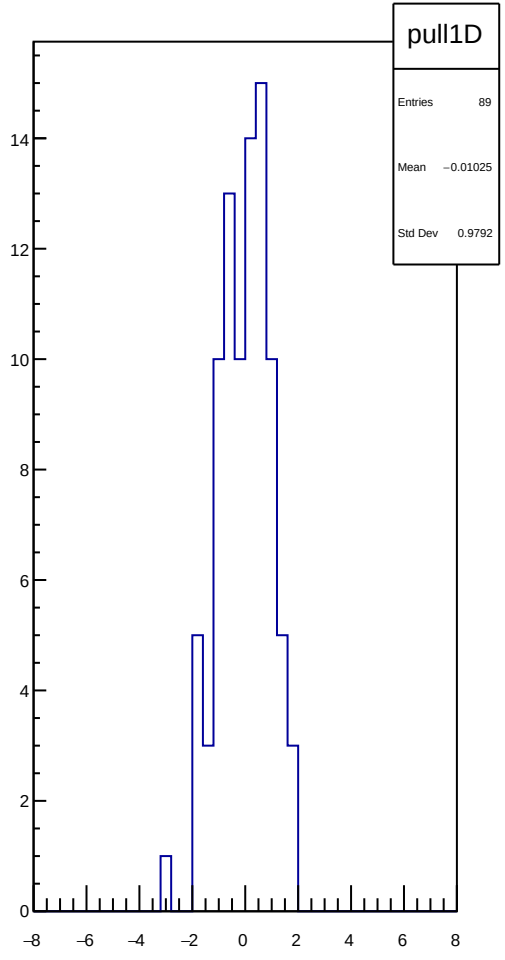

asym_at1_dd_at2_dd_avg_reg_correction_rms vs run
χ² / ndf 1.428e+04 / 88
p0 1215 ± 0.926
1500
1400
1300
1200
1100

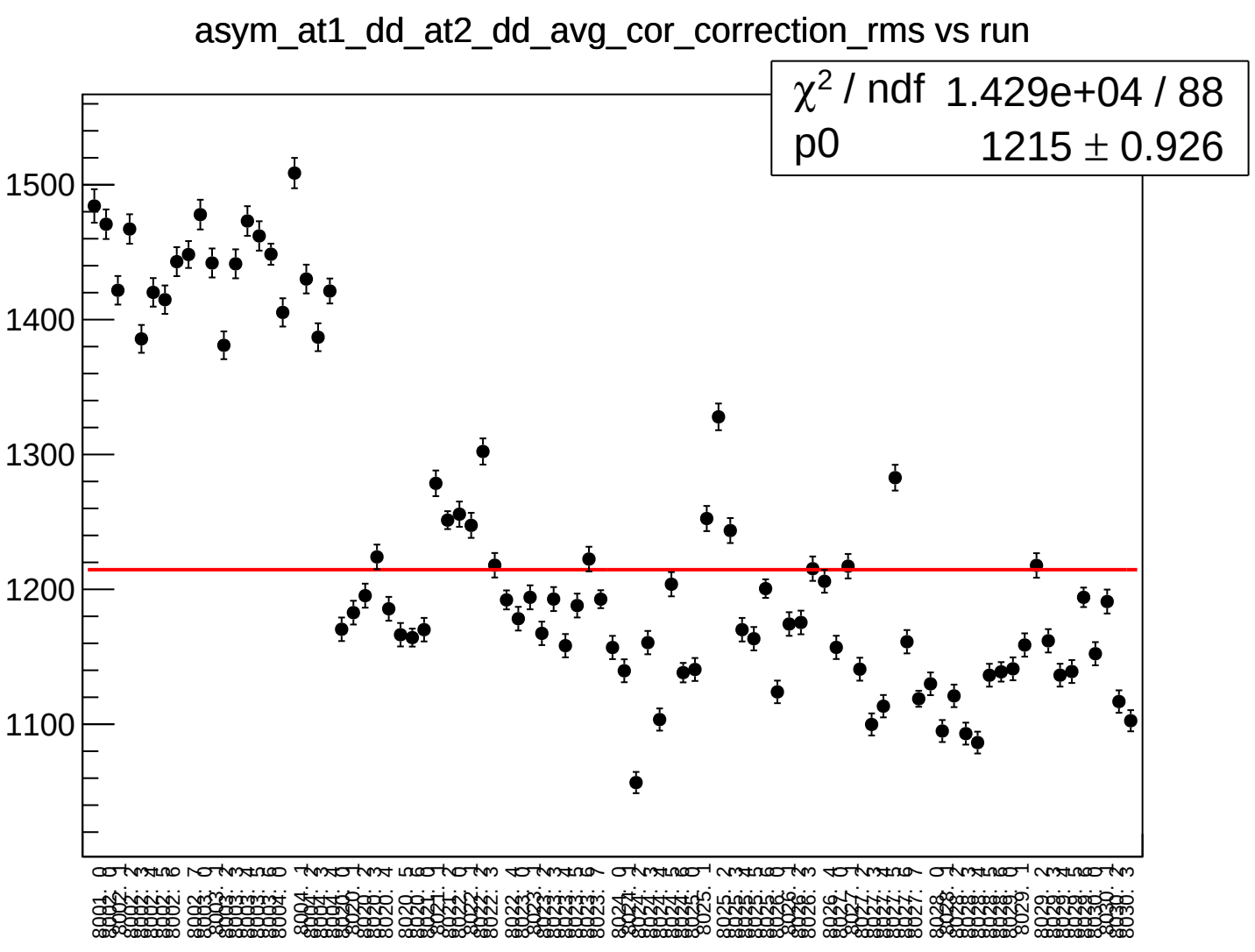

cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 95.2 / 88
p0 1375 ± 1354
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −441
Std Dev 0
2
1
0
−1
−2

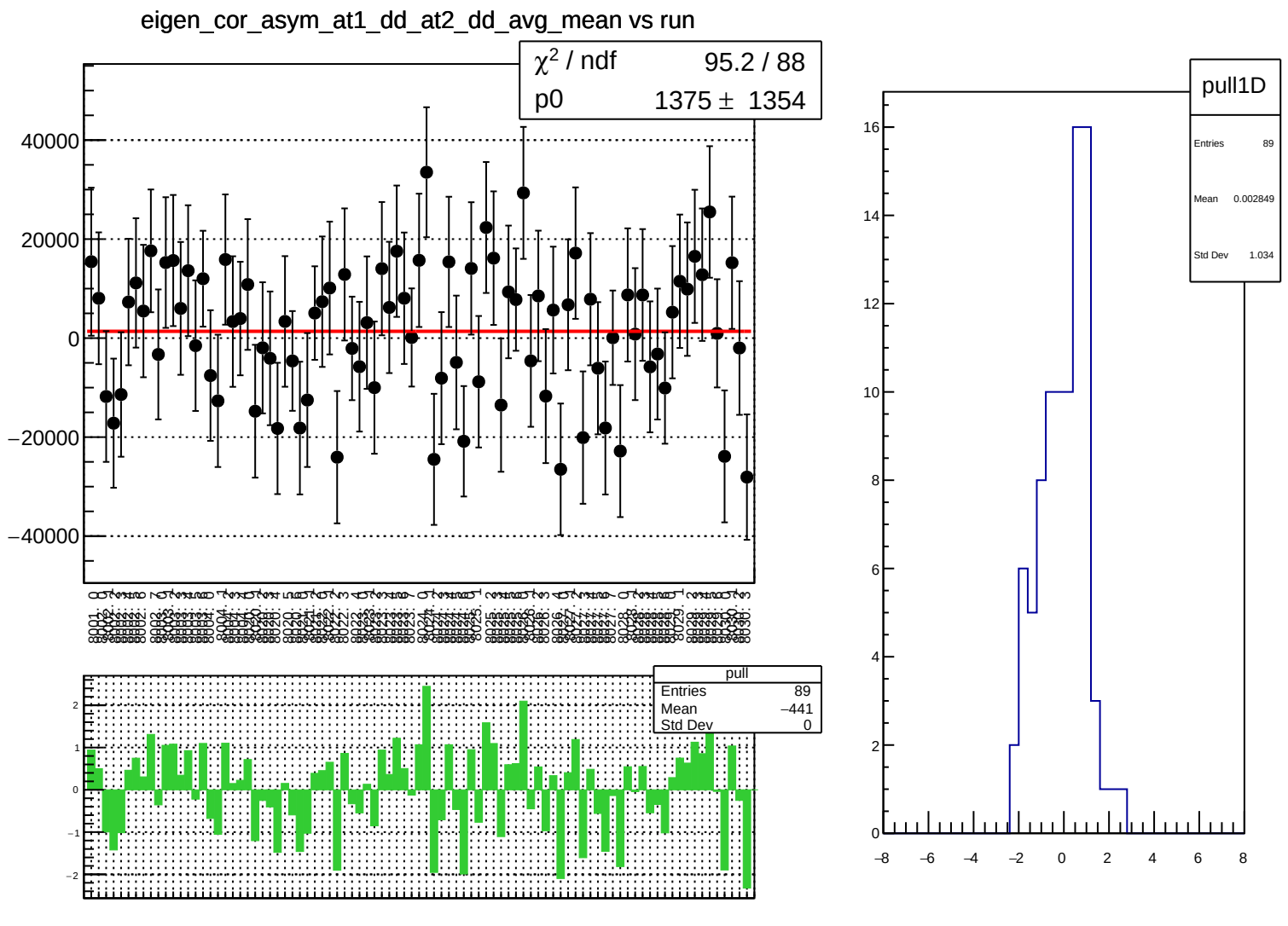

pull1D
Entries 89
Mean 0.002849
Std Dev 1.034
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

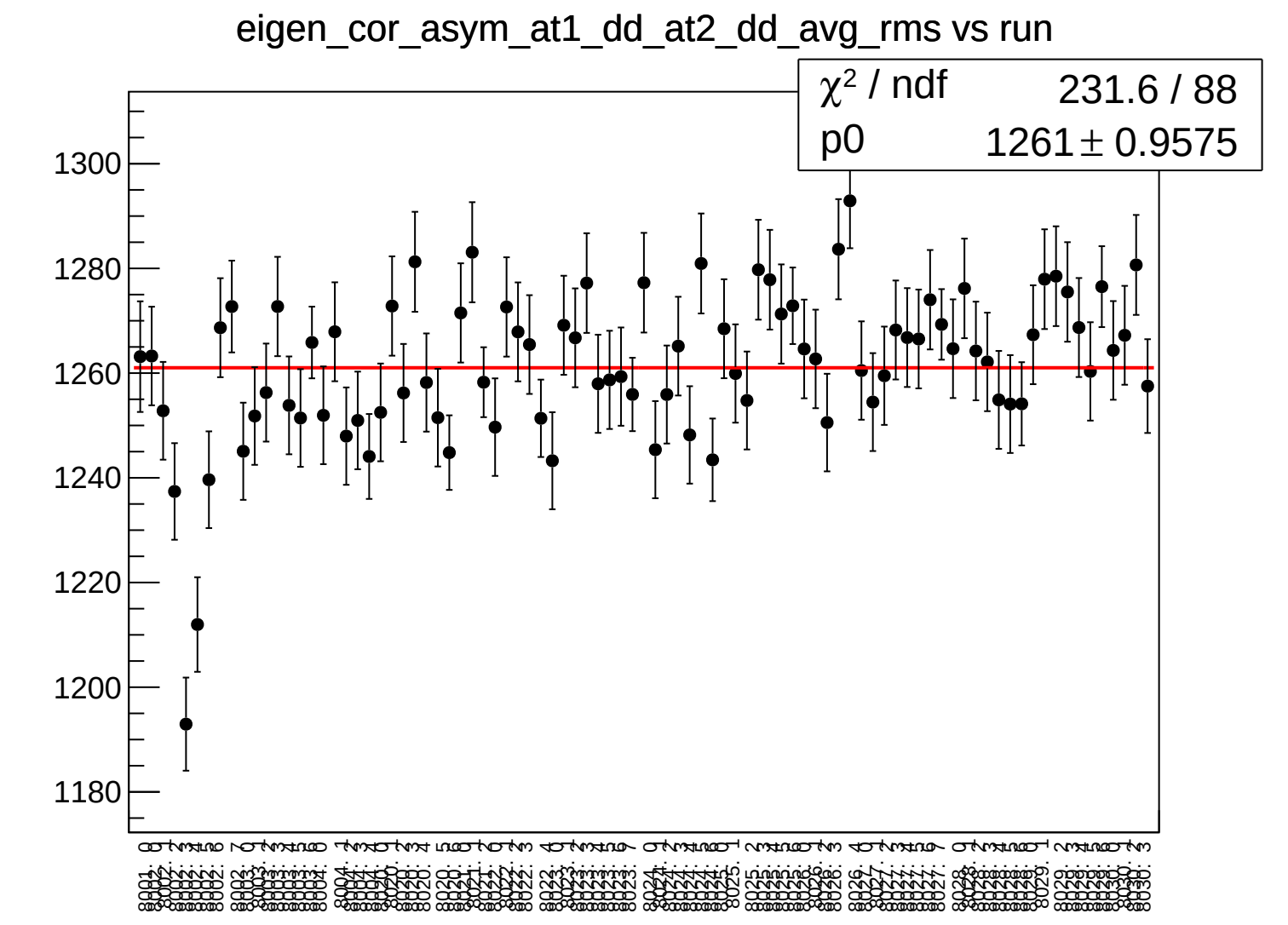

cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 231.6 / 88
p0 1261 ± 0.9575
1300
1280
1260
1240
1220
1200
1180

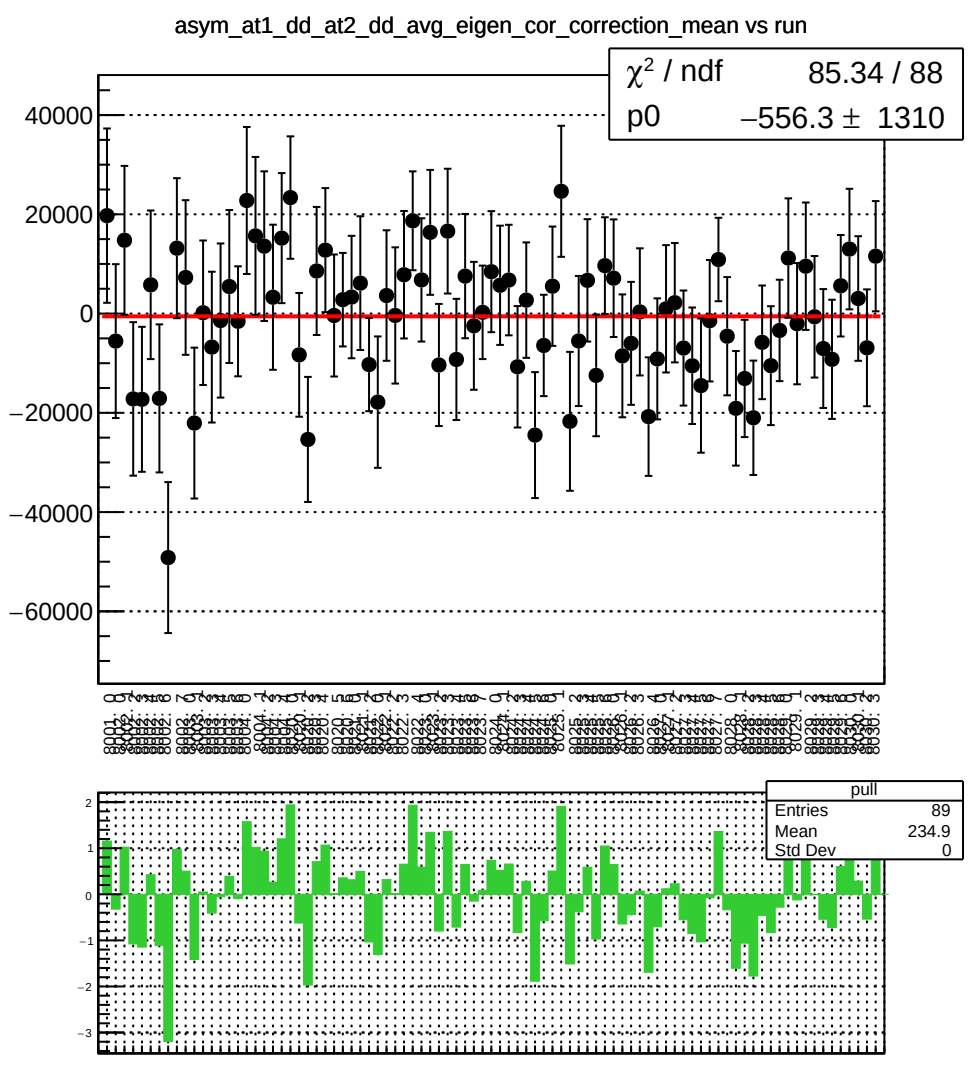

asym_at1_dd_at2_dd_avg_cor_correction_mean vs run
χ² / ndf 85.34 / 88
p0 −556.3 ± 1310
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 234.9
Std Dev 0
2
1
0
−1
−2
−3

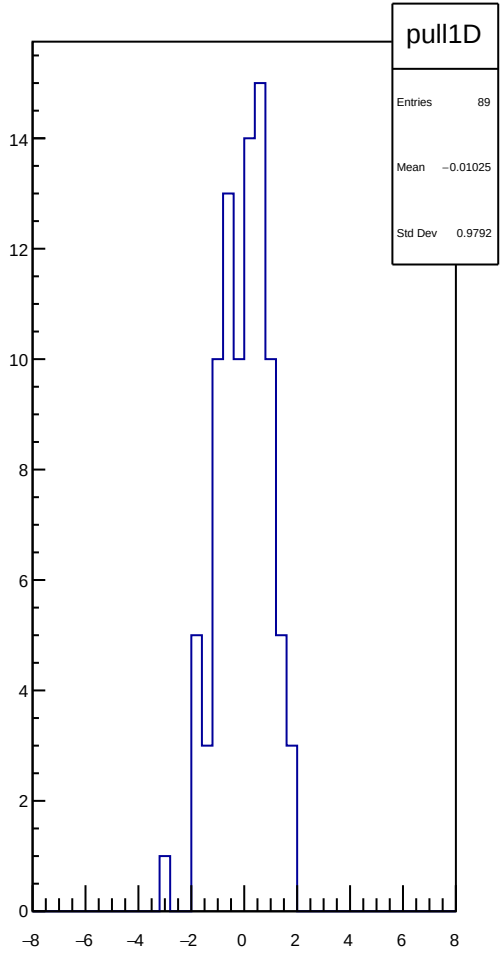

pull1D
Entries 89
Mean −0.01025
Std Dev 0.9792
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

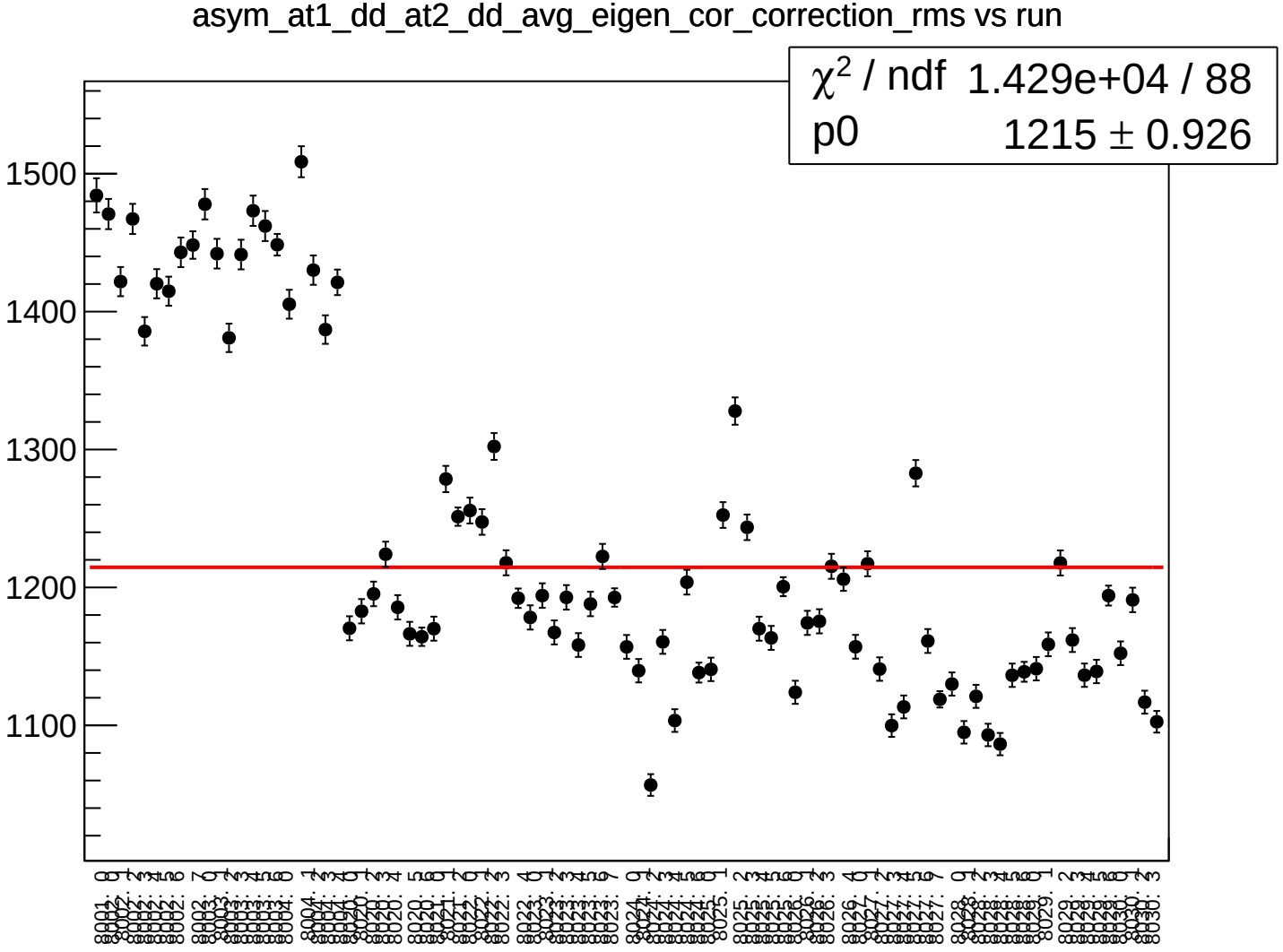

asym_at1_dd_at2_dd_avg_cor_correction_rms vs run
χ² / ndf 1.429e+04 / 88
p0 1215 ± 0.926
1500
1400
1300
1200
1100

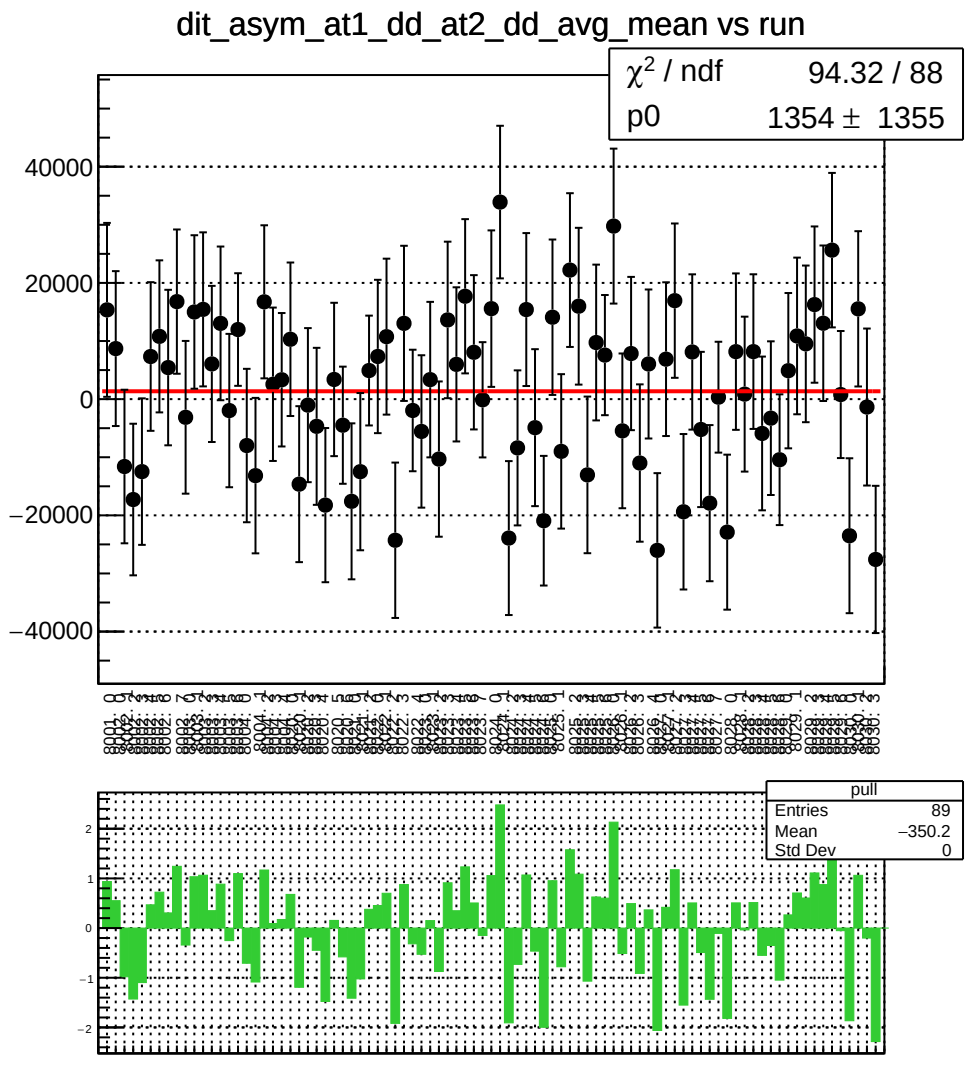

eigen_cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 95.2 / 88
p0 1375 ± 1354
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −441
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.002849
Std Dev 1.034
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

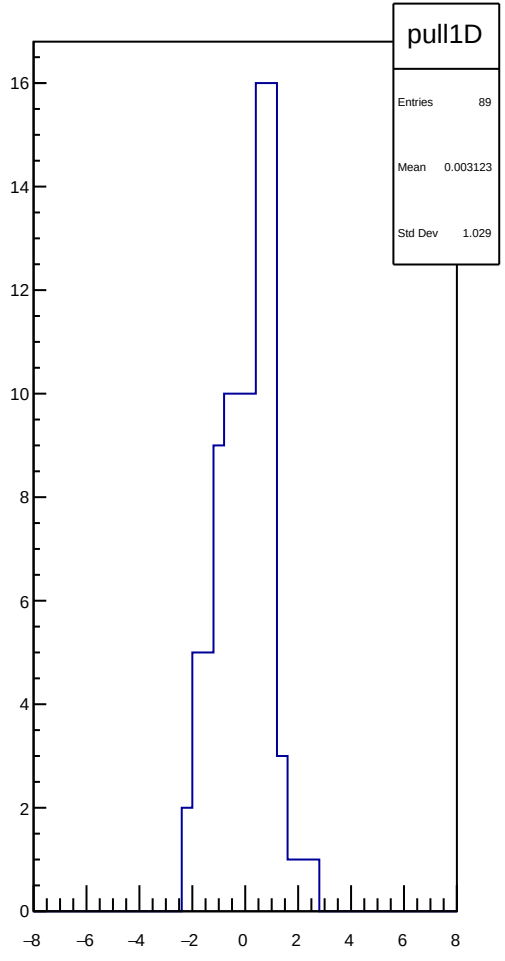

eigen_cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 231.6 / 88
p0 1261 ± 0.9575
1300
1280
1260
1240
1220
1200
1180

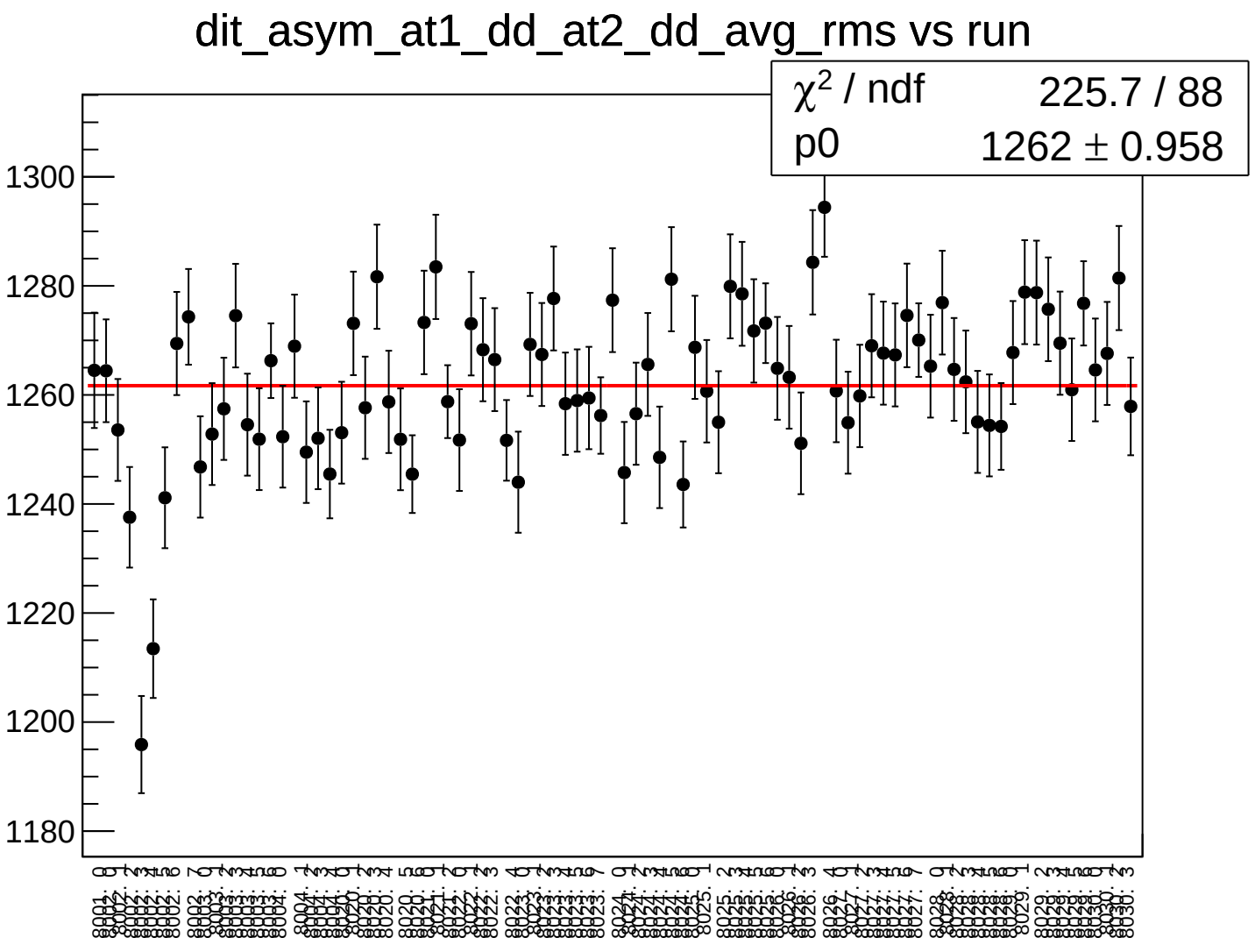

asym_at1_dd_at2_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 85.34 / 88
p0 −556.3 ± 1310
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 234.9
Std Dev 0
2
1
0
−1
−2
−3

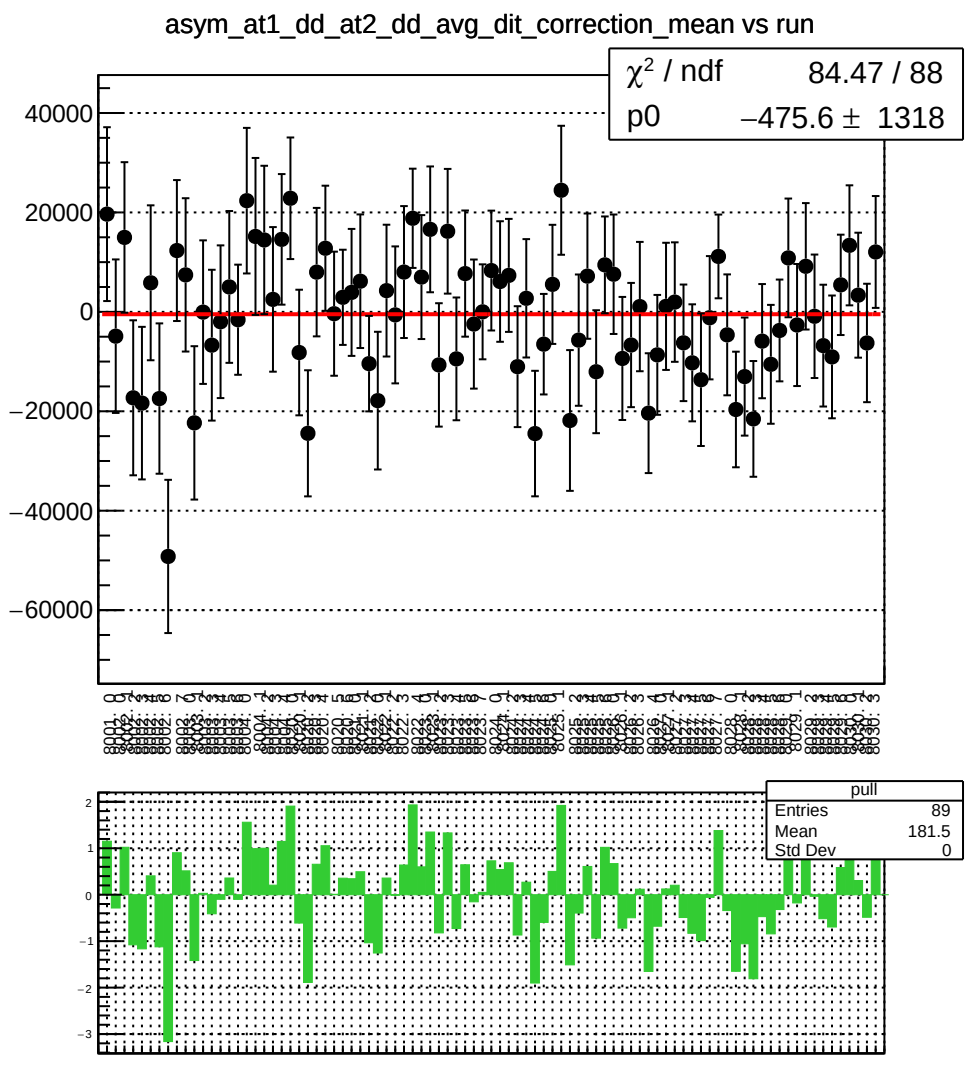

pull1D
Entries 89
Mean −0.01025
Std Dev 0.9792
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

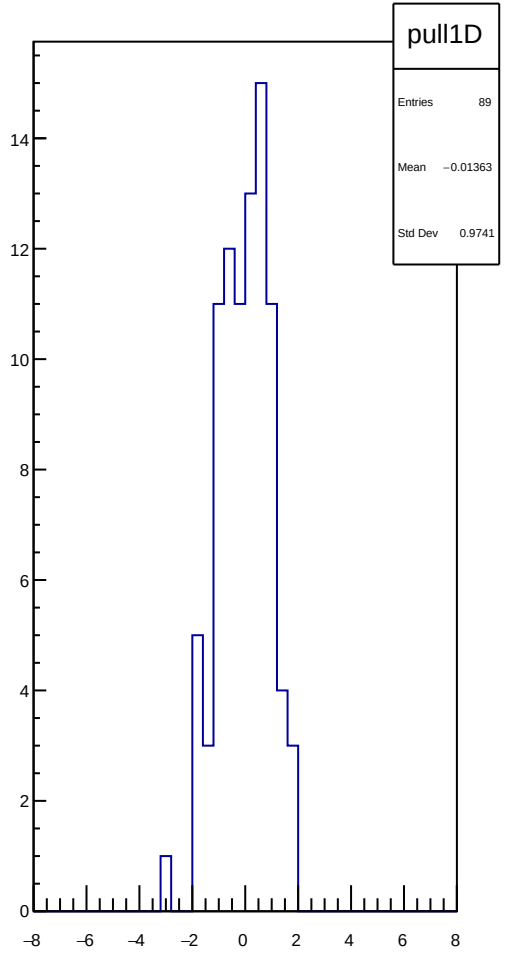

asym_at1_dd_at2_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.429e+04 / 88
p0 1215 ± 0.926
1500
1400
1300
1200
1100

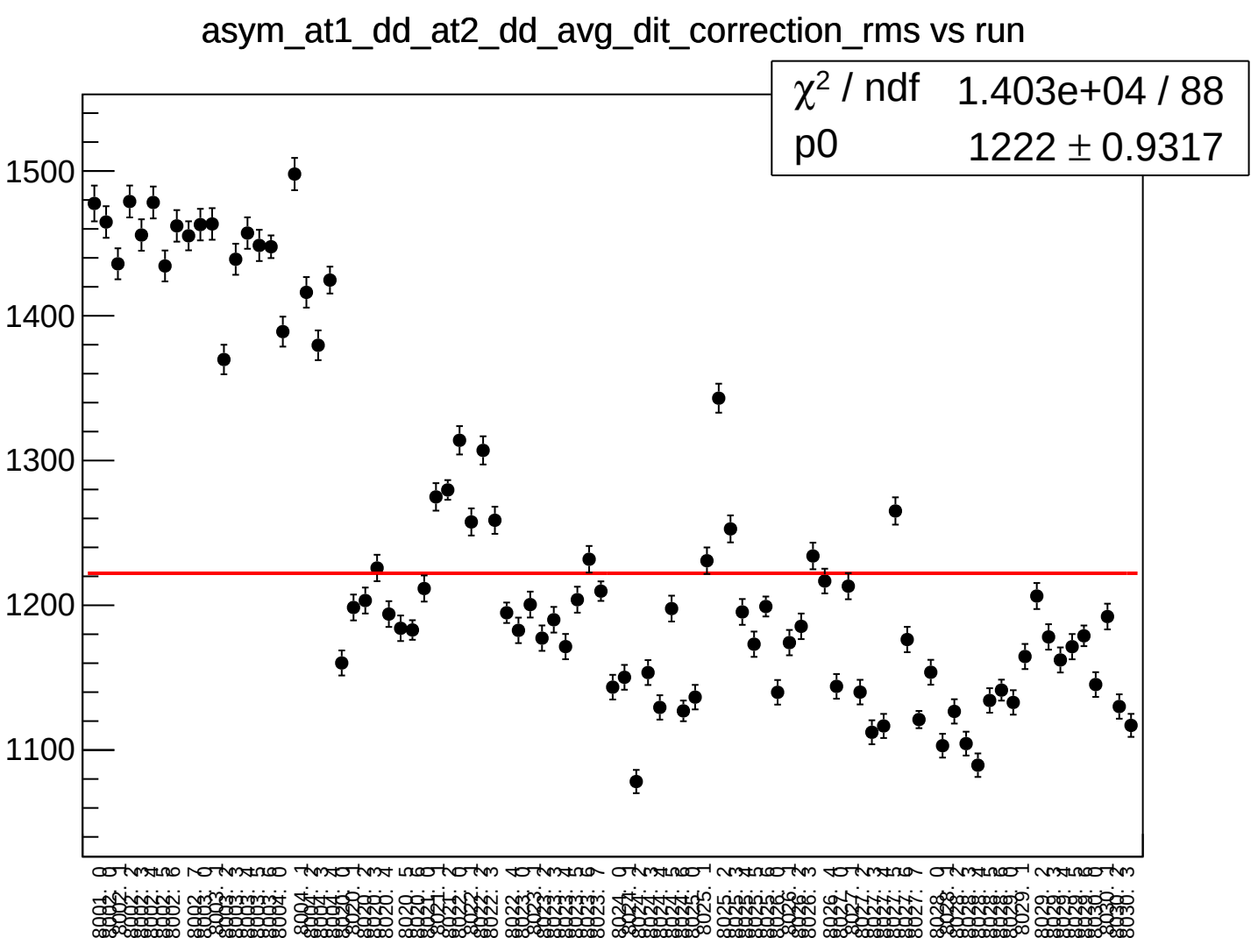

dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 94.32 / 88
p0 1354 ± 1355
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −350.2
Std Dev 0
2
1
0
−1
−2

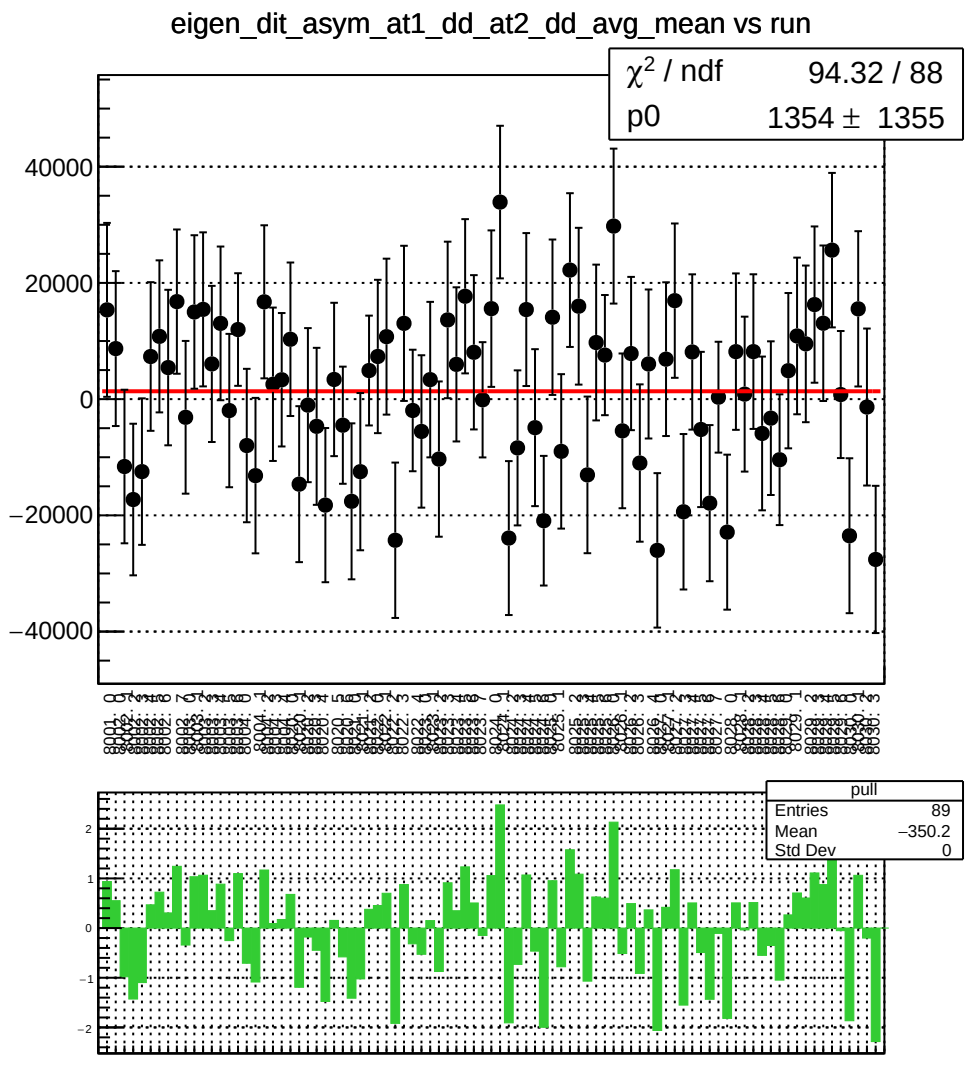

pull1D
Entries 89
Mean 0.003123
Std Dev 1.029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

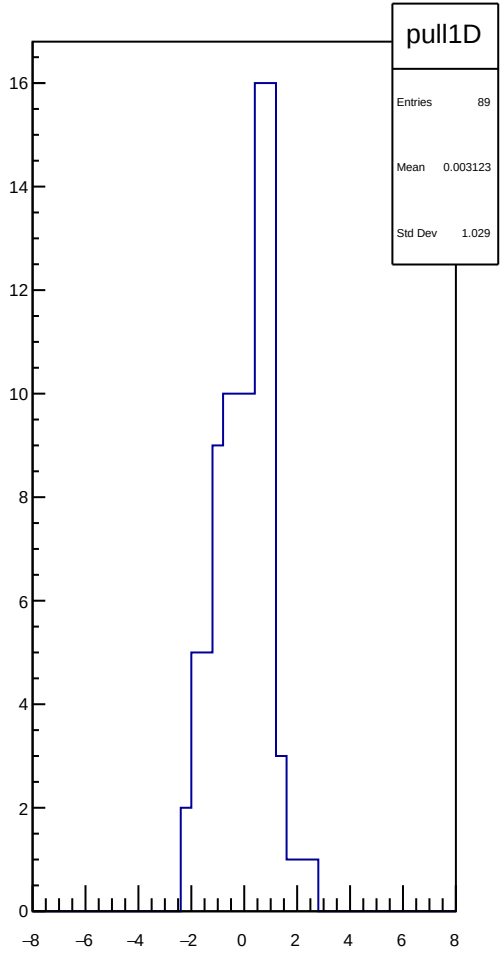

dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 225.7 / 88
p0 1262 ± 0.958
1300
1280
1260
1240
1220
1200
1180

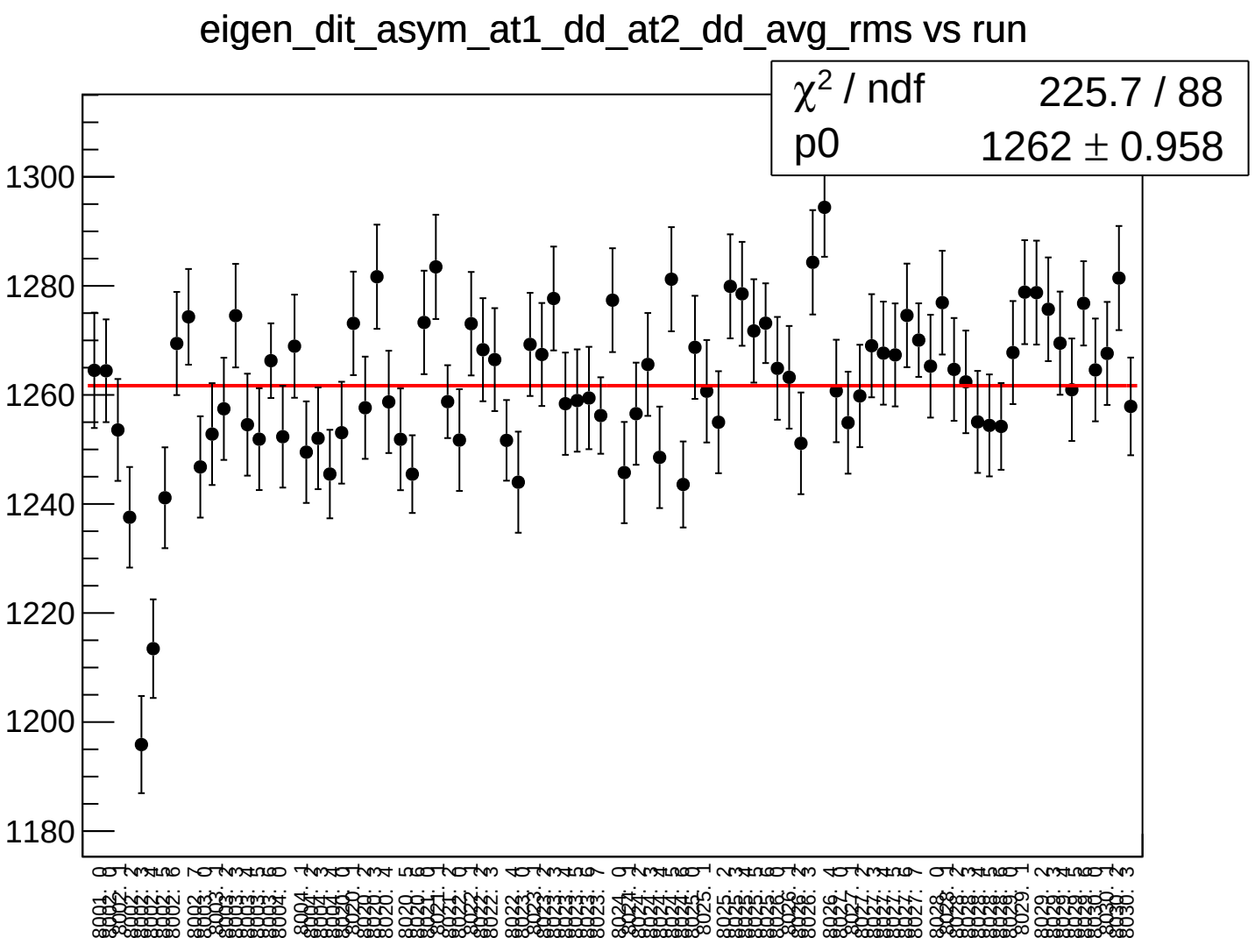

asym_at1_dd_at2_dd_avg_dit_correction_mean vs run
χ² / ndf 84.47 / 88
p0 −475.6 ± 1318
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 181.5
Std Dev 0
2
1
0
−1
−2
−3

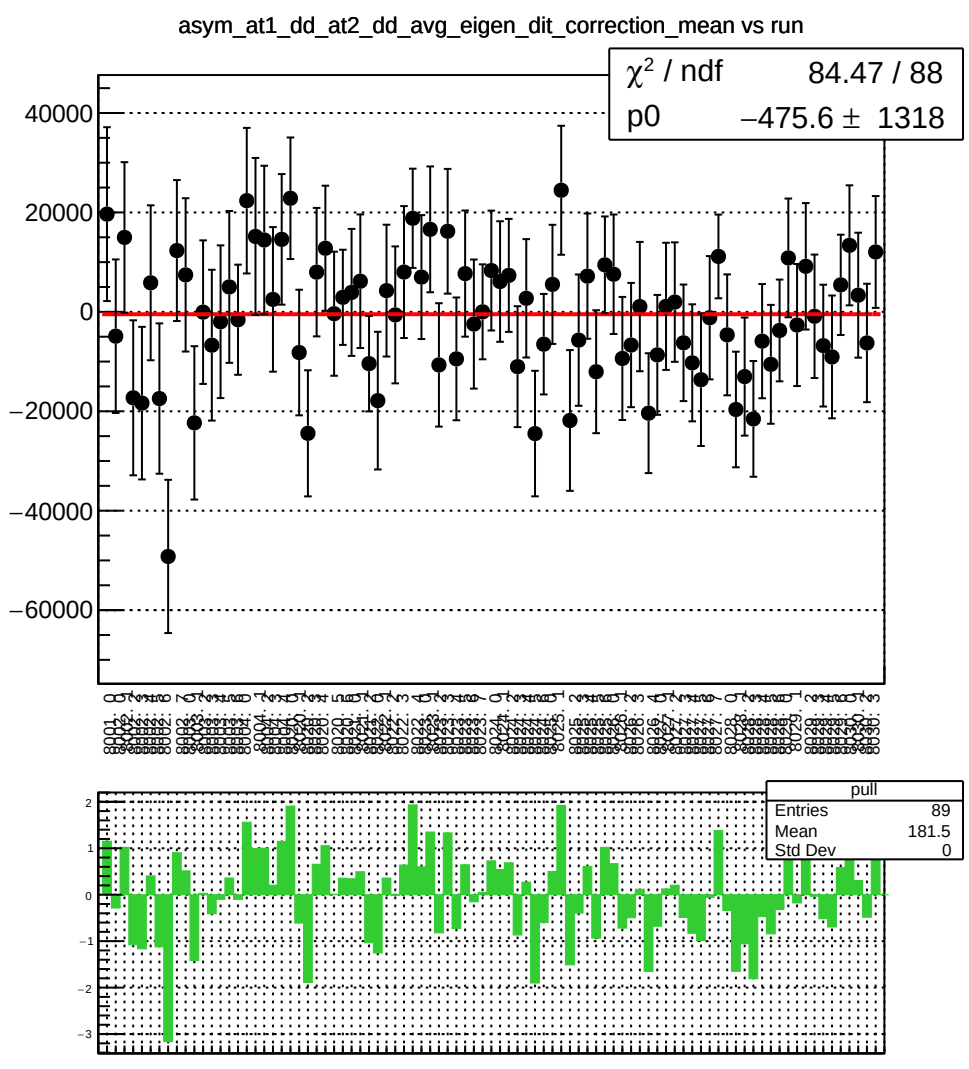

pull1D
Entries 89
Mean −0.01363
Std Dev 0.9741
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

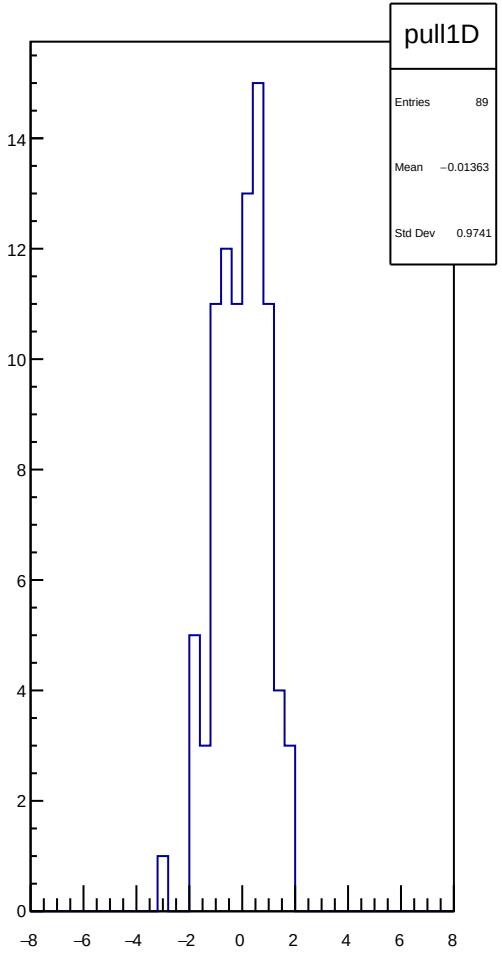

asym_at1_dd_at2_dd_avg_dit_correction_rms vs run
χ² / ndf 1.403e+04 / 88
p0 1222 ± 0.9317
1500
1400
1300
1200
1100

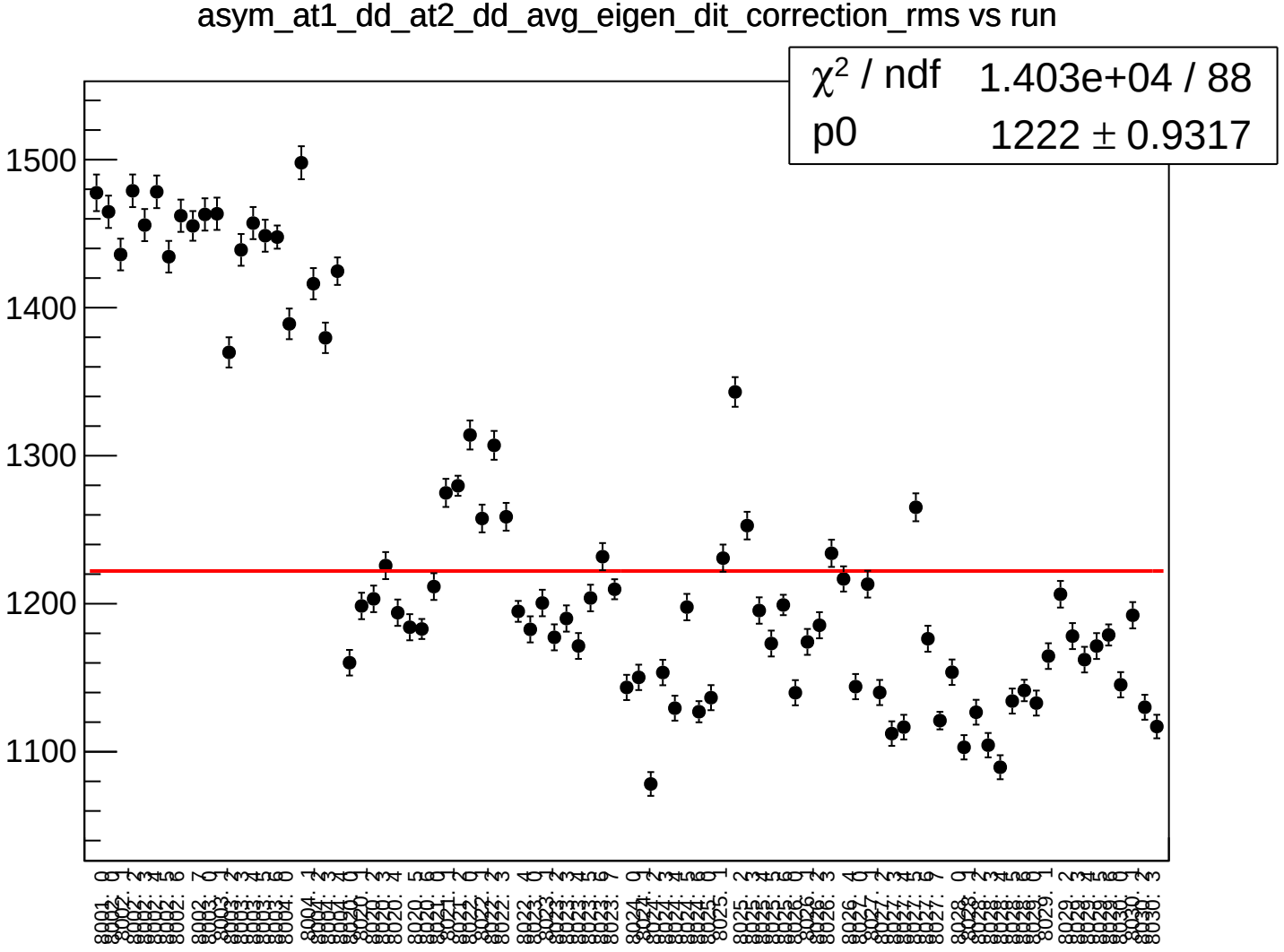

eigen_dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 94.32 / 88
p0 1354 ± 1355
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −350.2
Std Dev 0
2
1
0
−1
−2

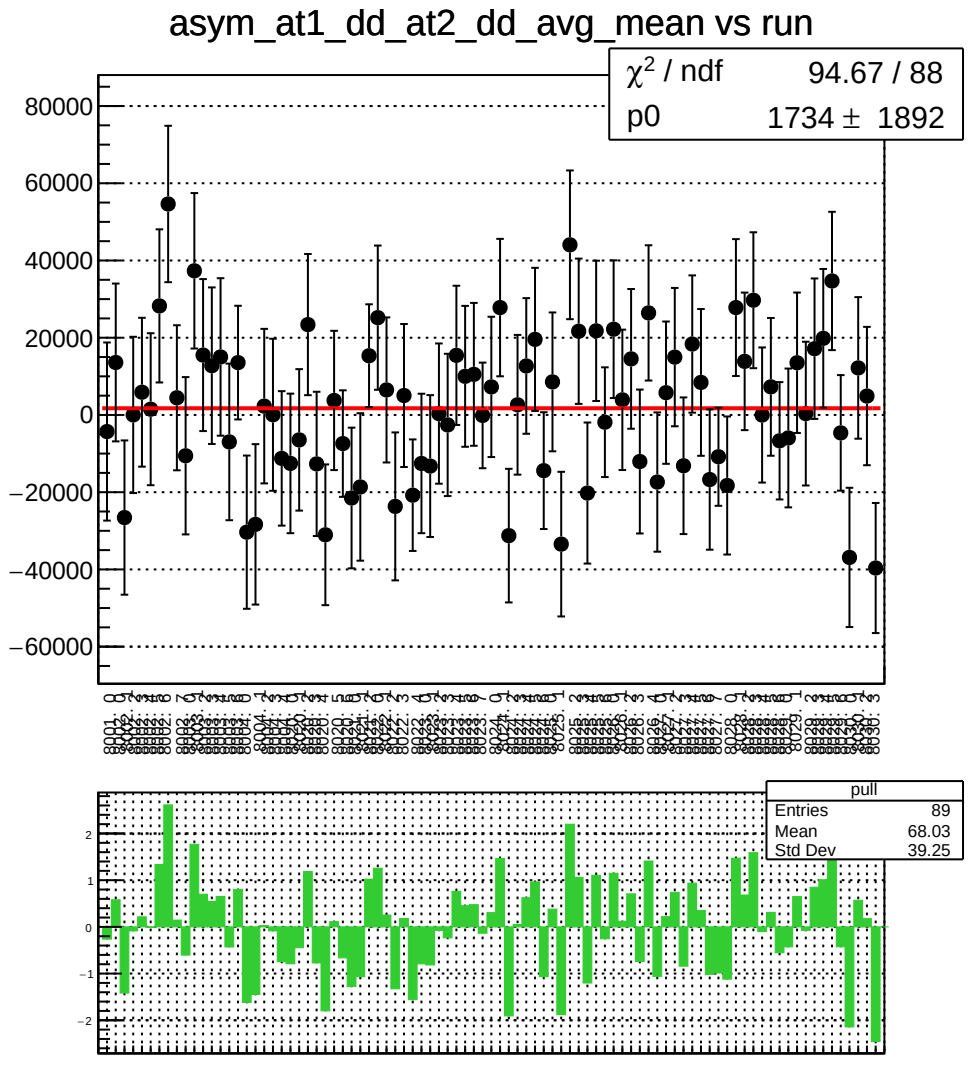

pull1D
Entries 89
Mean 0.003123
Std Dev 1.029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

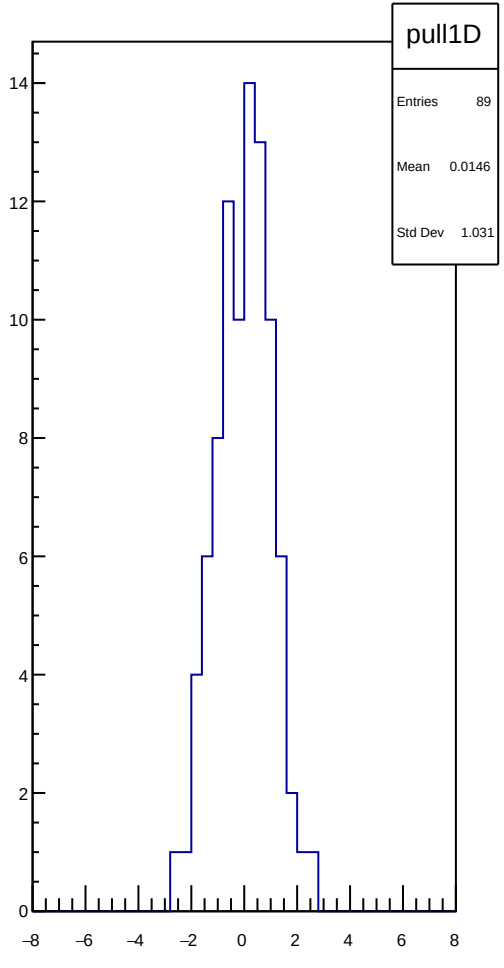

eigen_dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 225.7 / 88
p0 1262 ± 0.958
1300
1280
1260
1240
1220
1200
1180

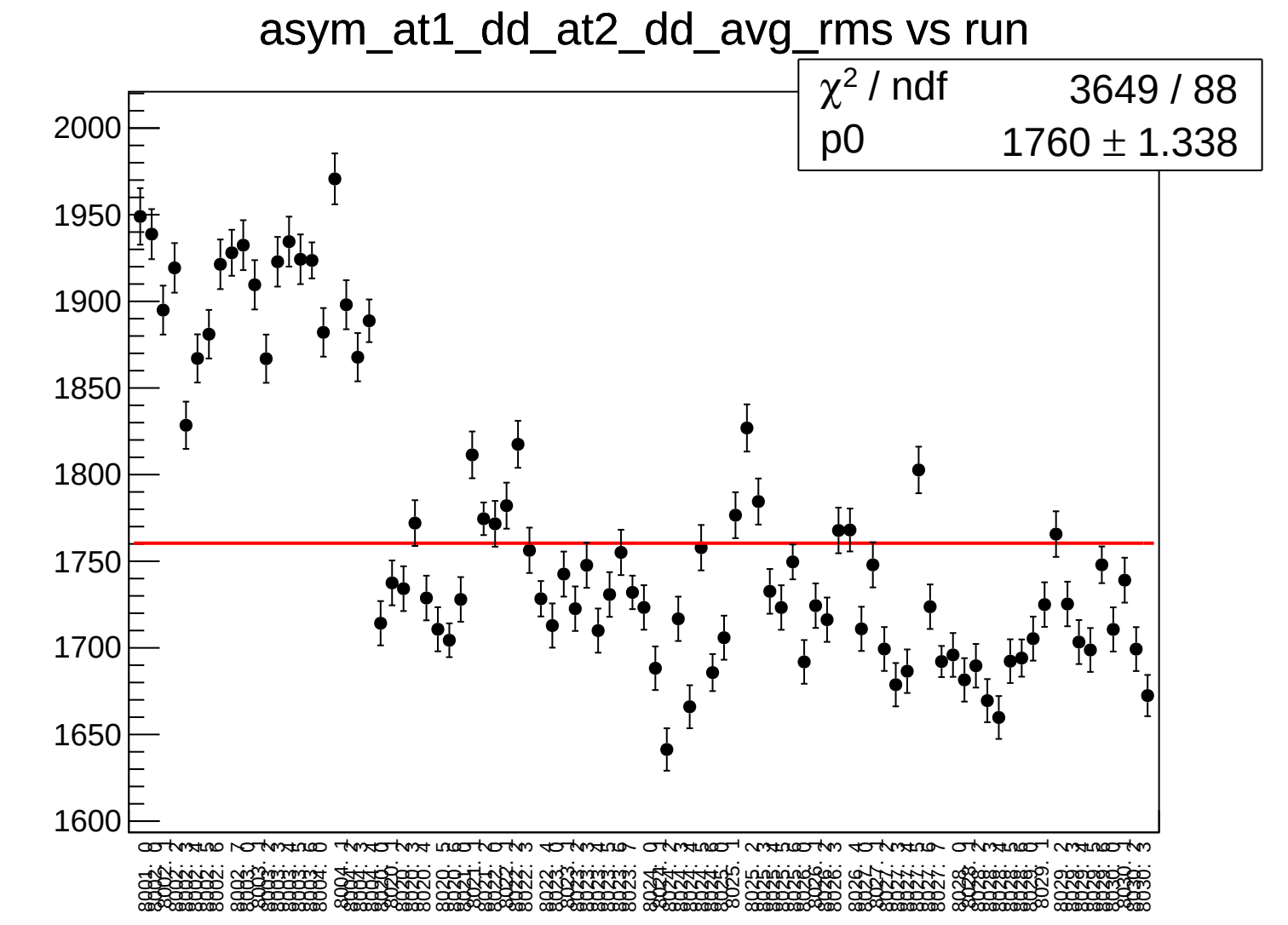

asym_at1_dd_at2_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 84.47 / 88
p0 −475.6 ± 1318
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 181.5
Std Dev 0
2
1
0
−1
−2
−3

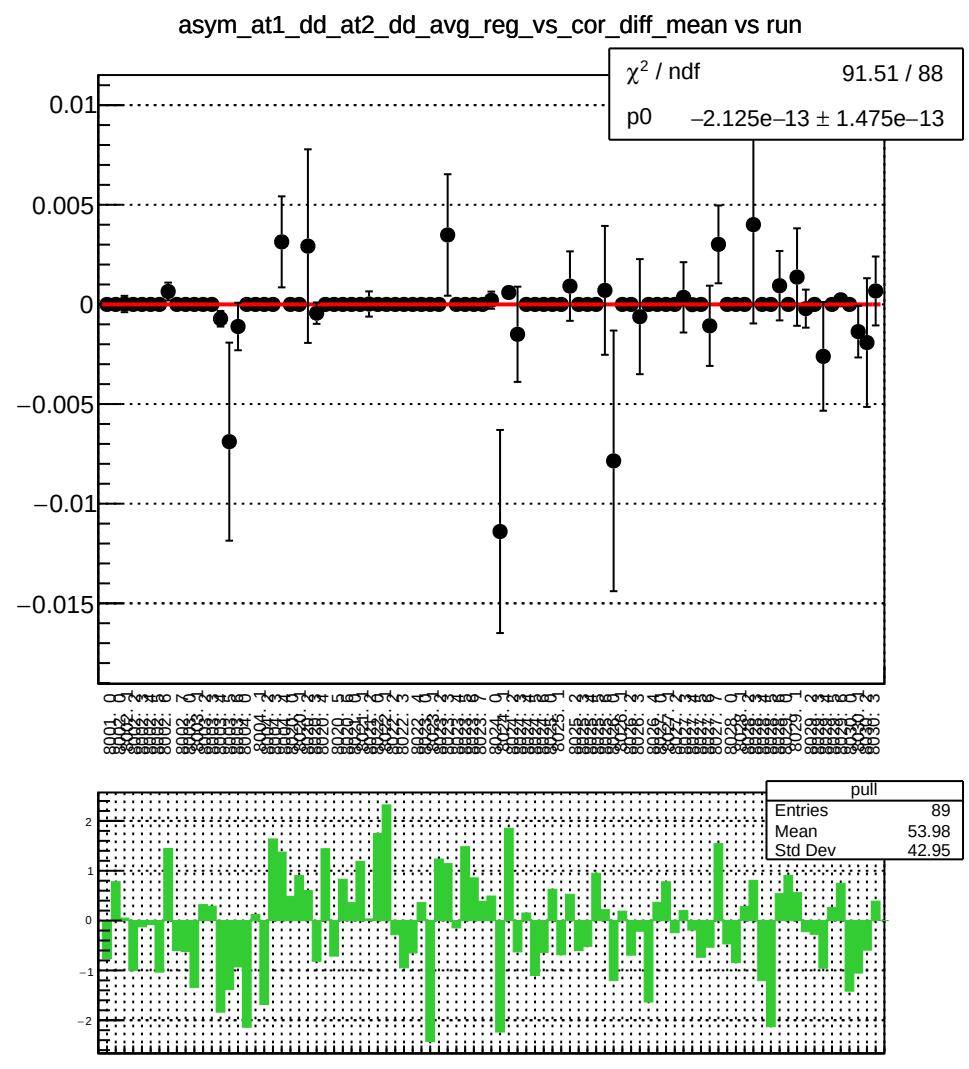

pull1D
Entries 89
Mean −0.01363
Std Dev 0.9741
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

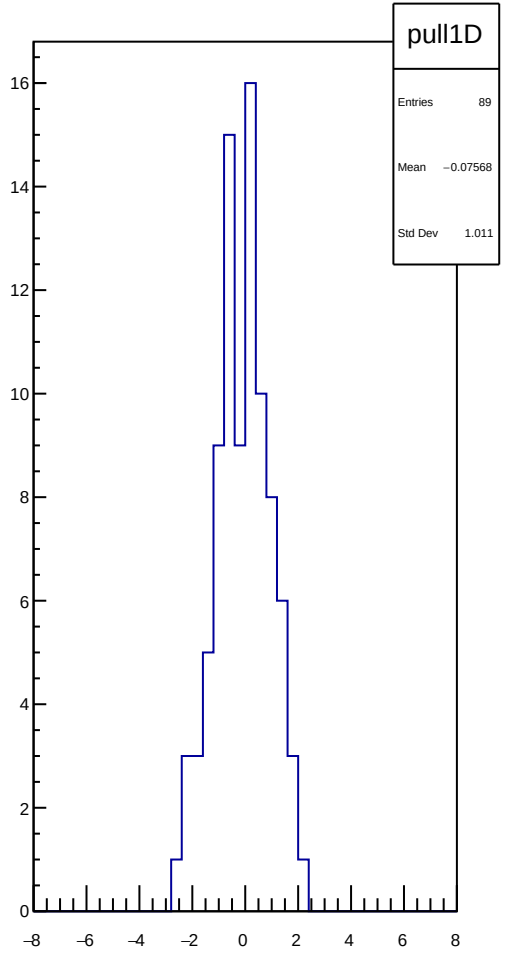

asym_at1_dd_at2_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.403e+04 / 88
p0 1222 ± 0.9317
1500
1400
1300
1200
1100

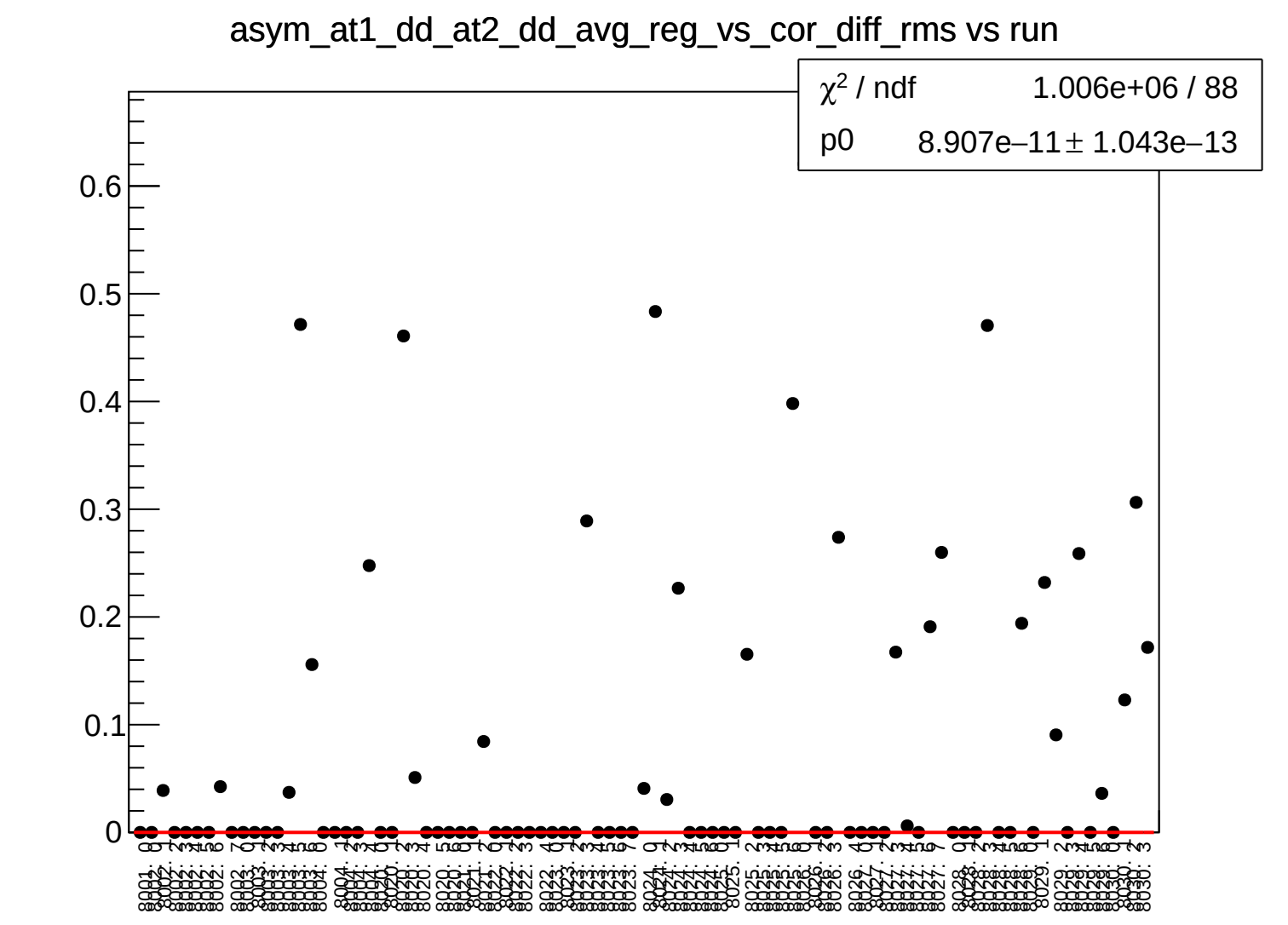

asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 94.67 / 88
p0 1734 ± 1892
pull
Entries 89
Mean 68.03
Std Dev 39.25

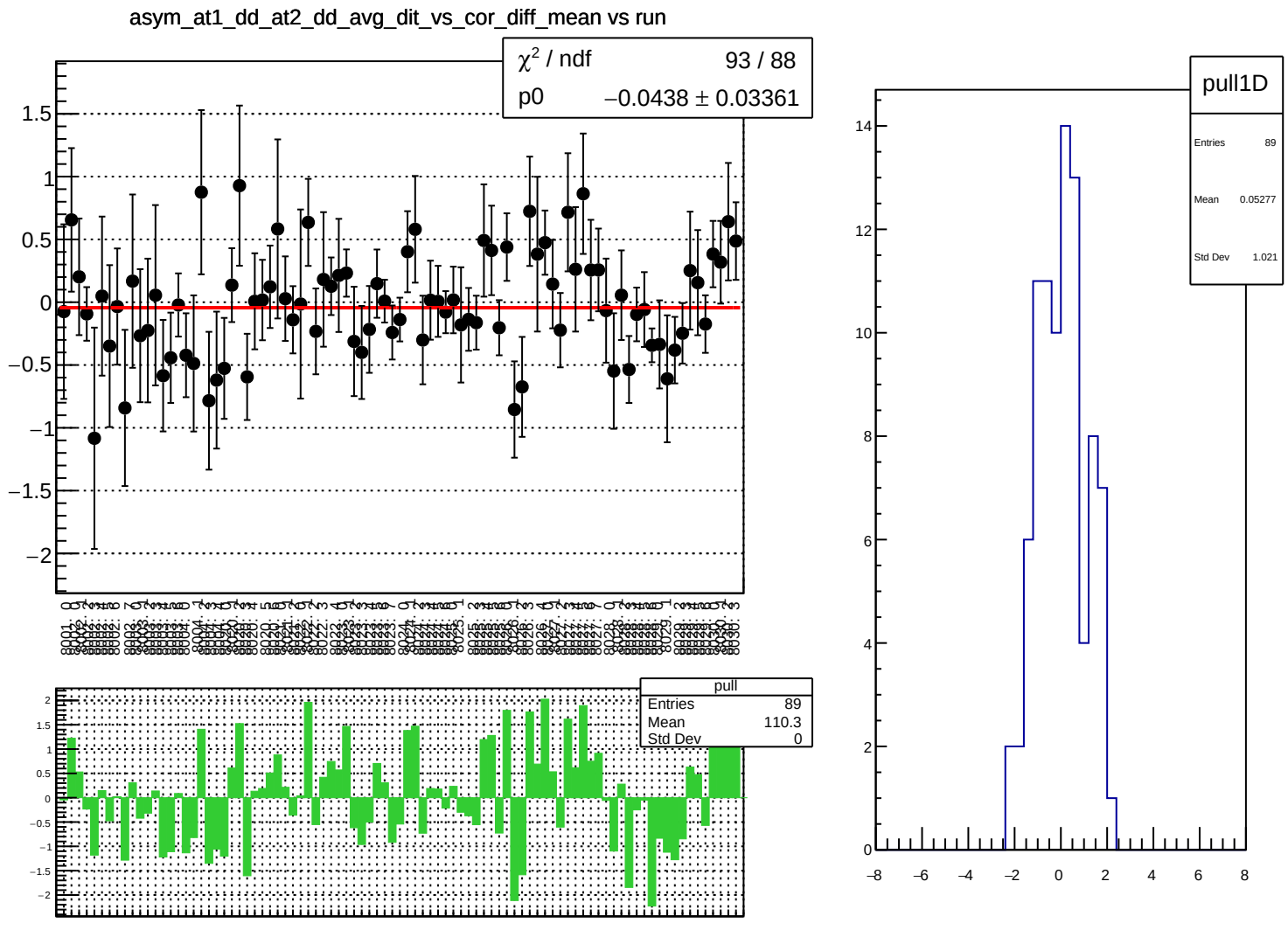

pull1D
Entries 89
Mean 0.0146
Std Dev 1.031

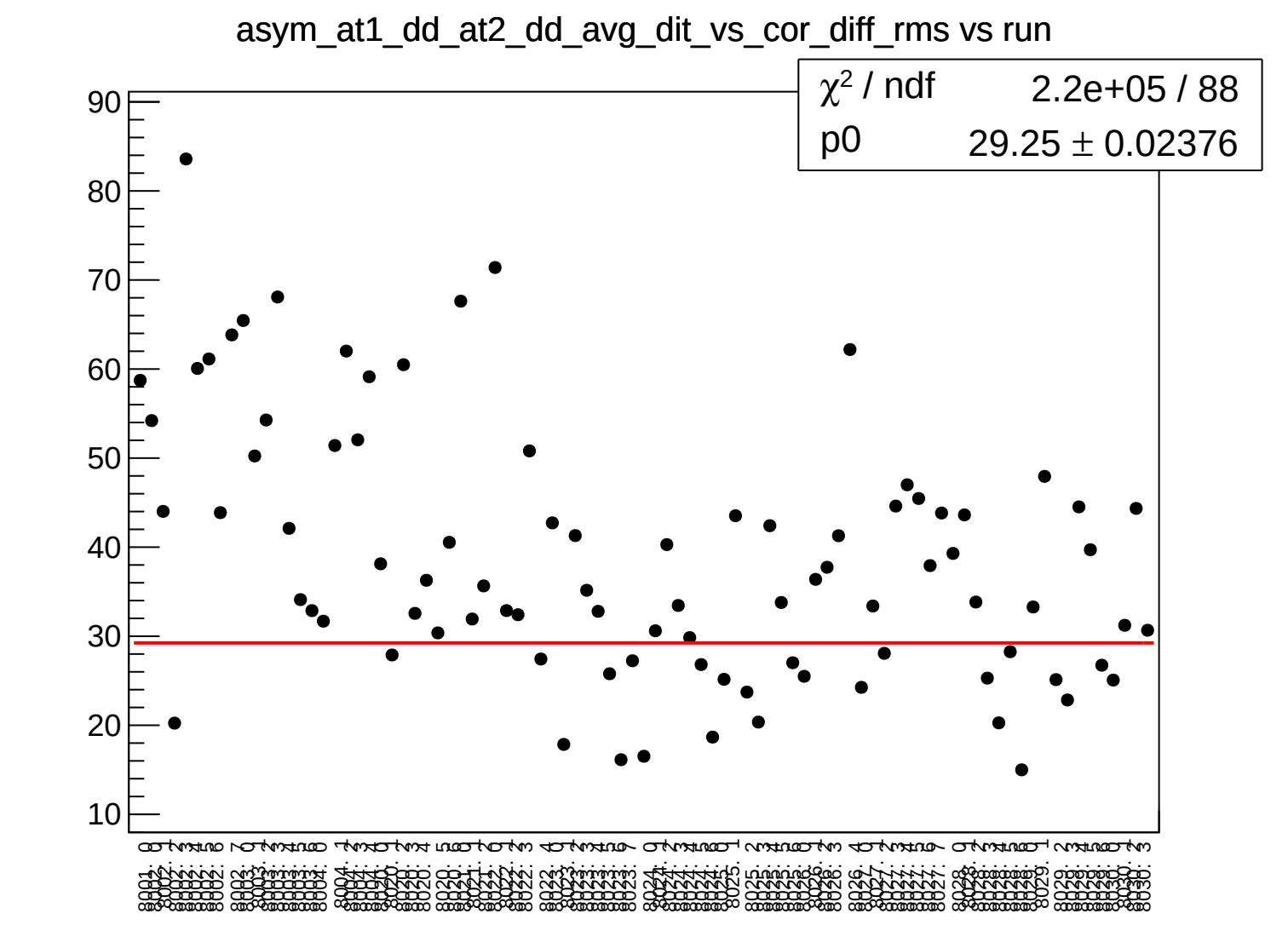

asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 3649 / 88
p0 1760 ± 1.338
2000
1950
1900
1850
1800
1750
1700
1650
1600

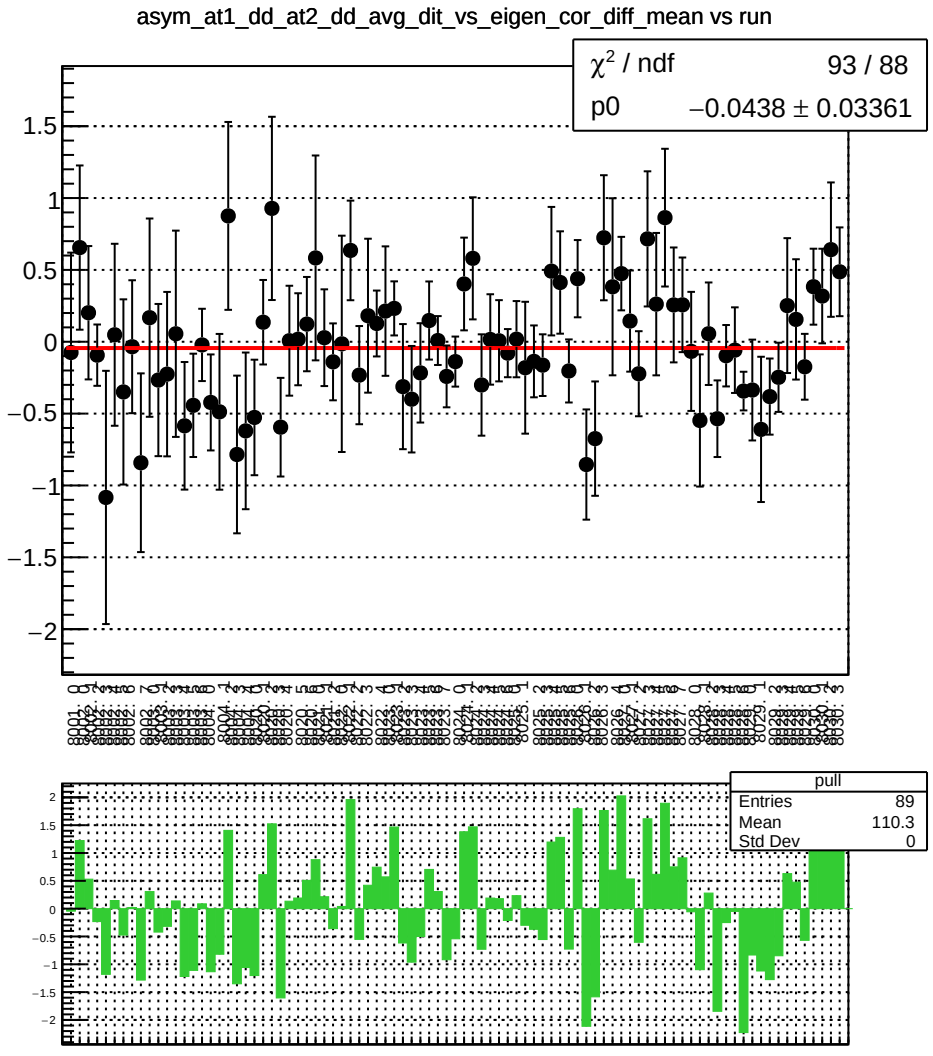

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 91.51 / 88
p0 −2.125e−13 ± 1.475e−13
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 89
Mean 53.98
Std Dev 42.95
2
1
0
−1
−2

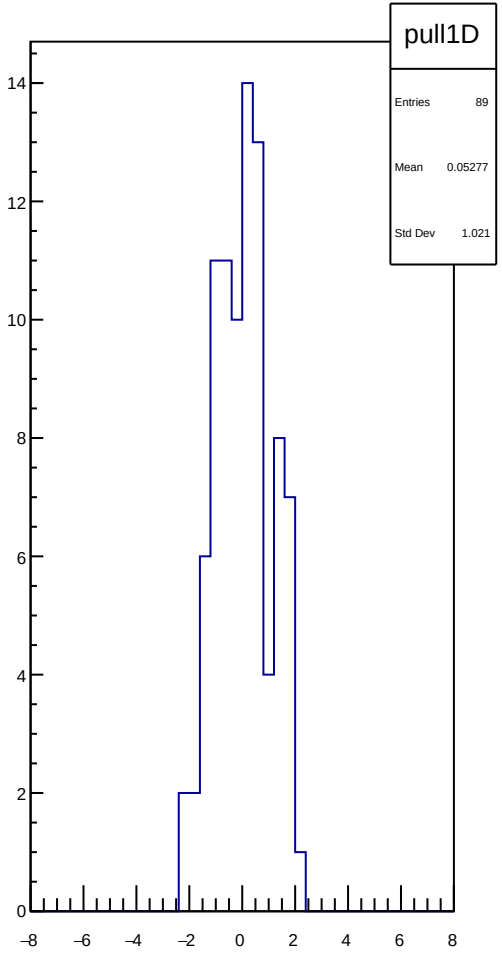

pull1D
Entries 89
Mean −0.07568
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

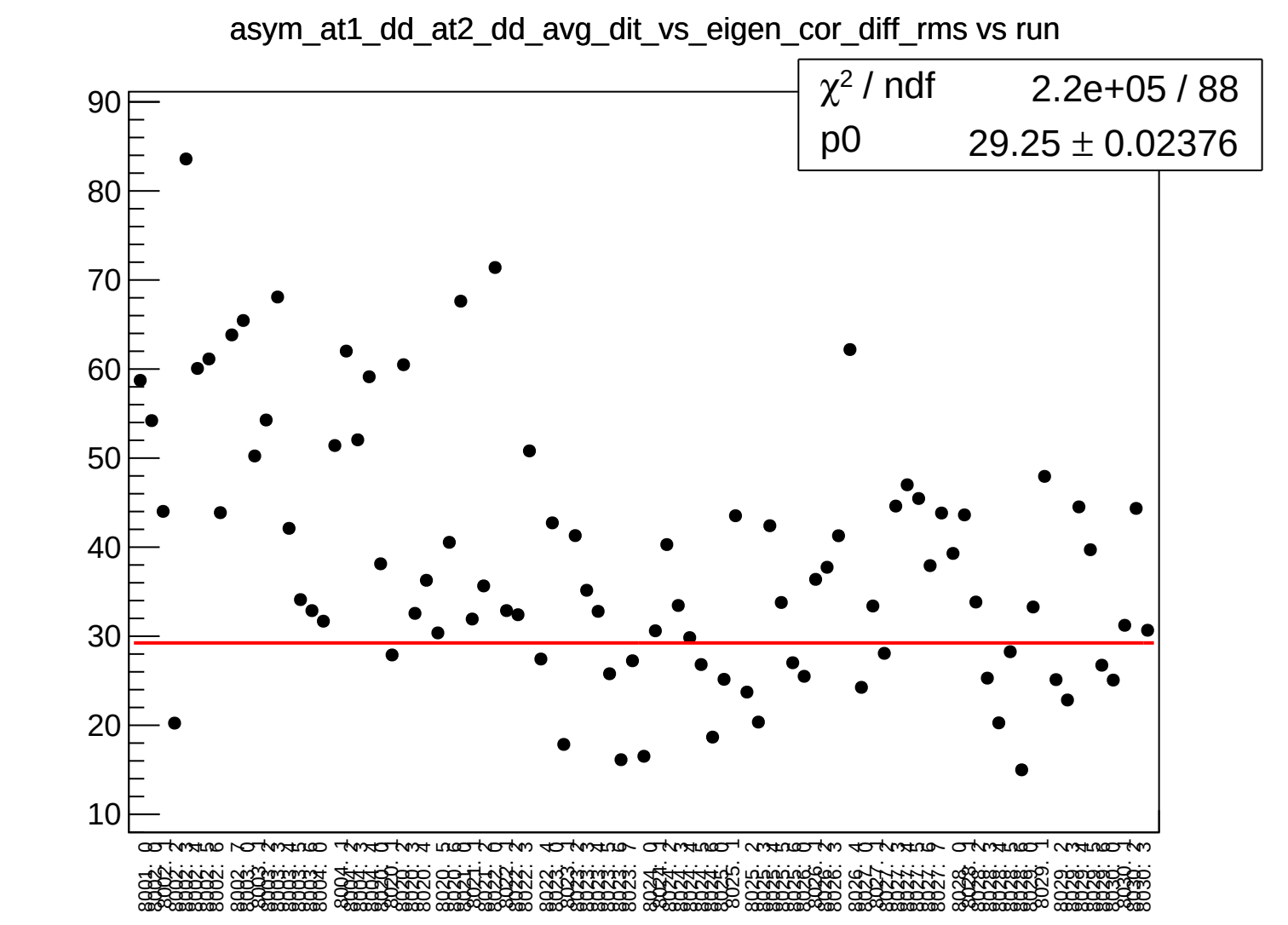

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.006e+06 / 88
p0 8.907e−11 ± 1.043e−13
0.6
0.5
0.4
0.3
0.2
0.1
0

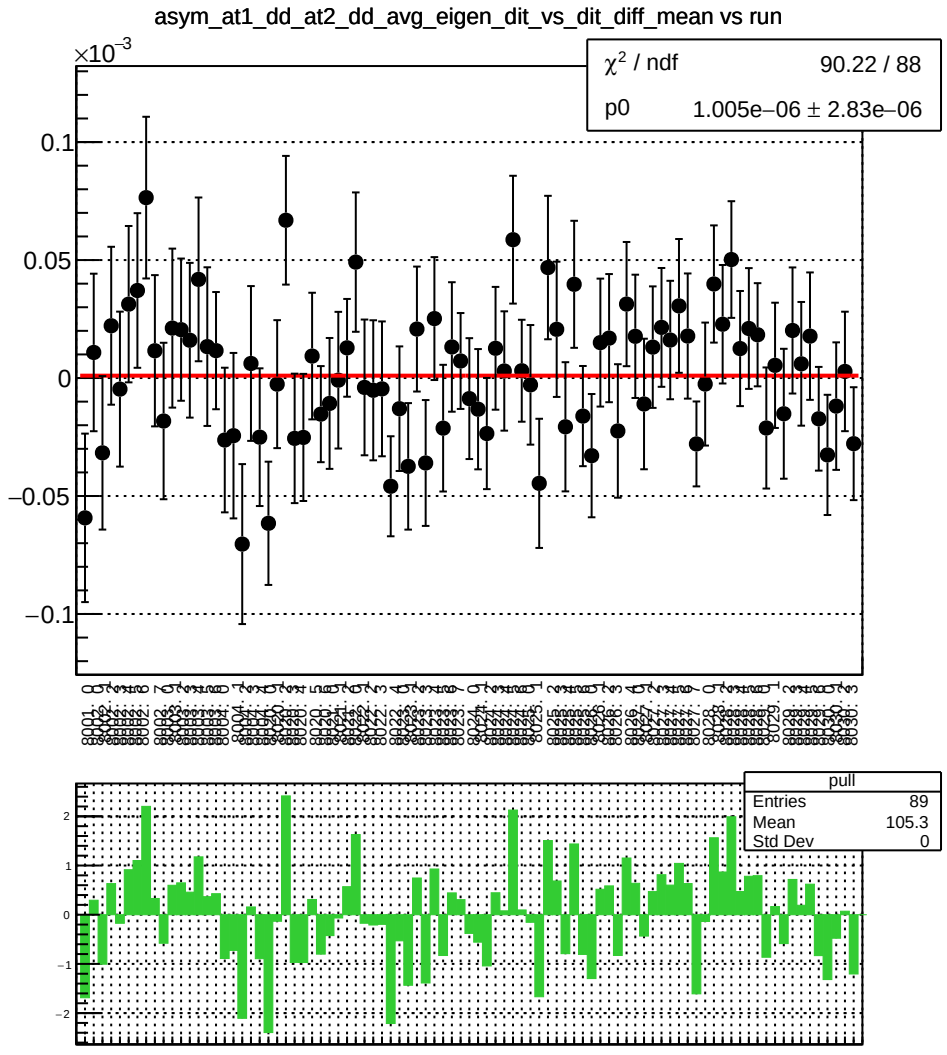

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 93 / 88
p0 −0.0438 ± 0.03361
pull
Entries 89
Mean 110.3
Std Dev 0
pull1D
Entries 89
Mean 0.05277
Std Dev 1.021

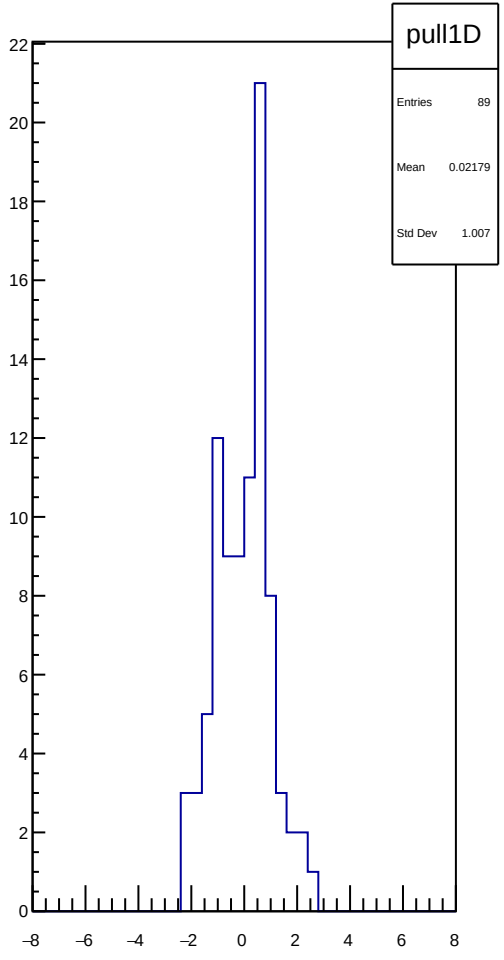

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.2e+05 / 88
p0 29.25 ± 0.02376
90
80
70
60
50
40
30
20
10

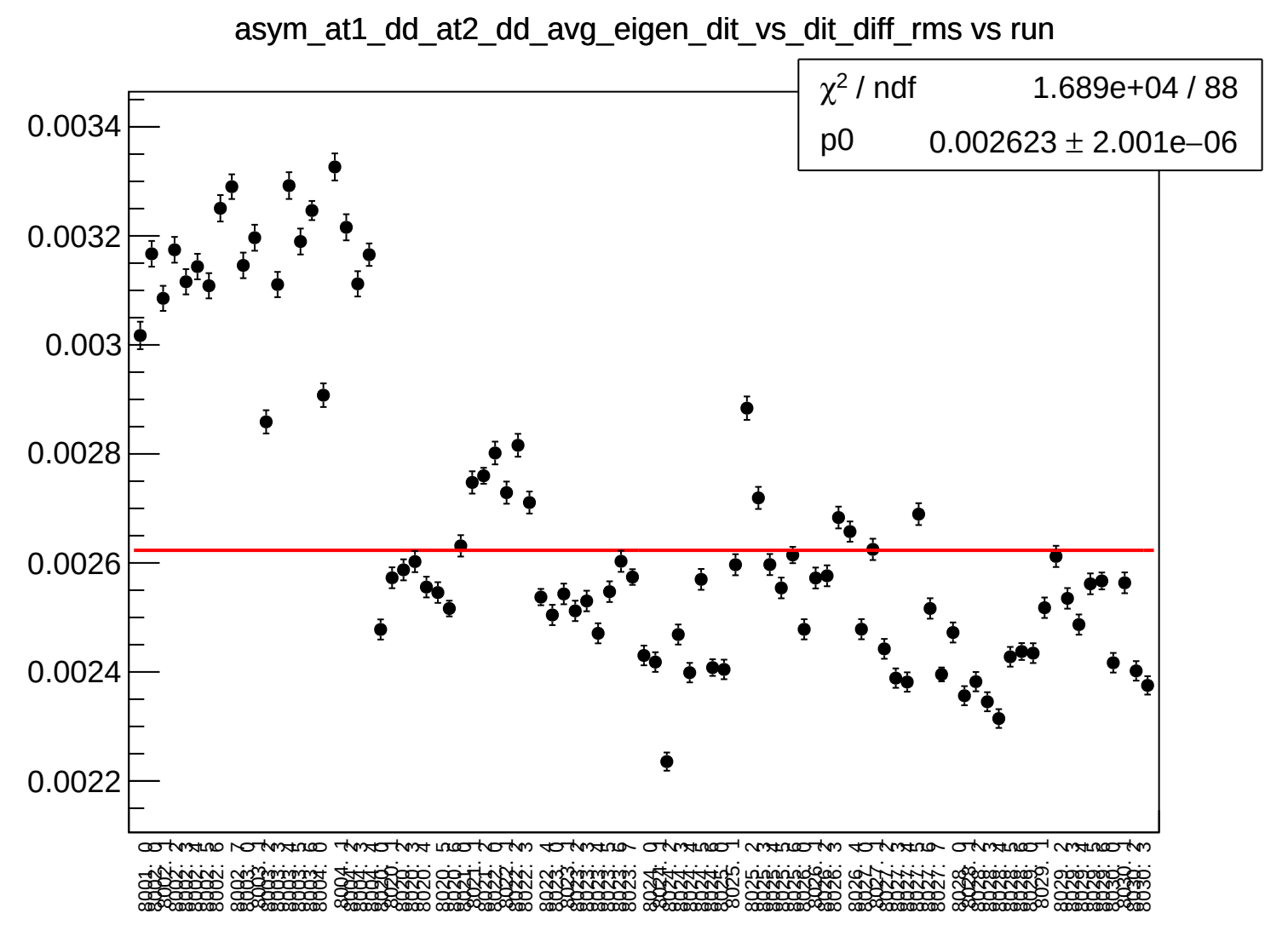

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93 / 88
p0 −0.0438 ± 0.03361
pull
Entries 89
Mean 110.3
Std Dev 0

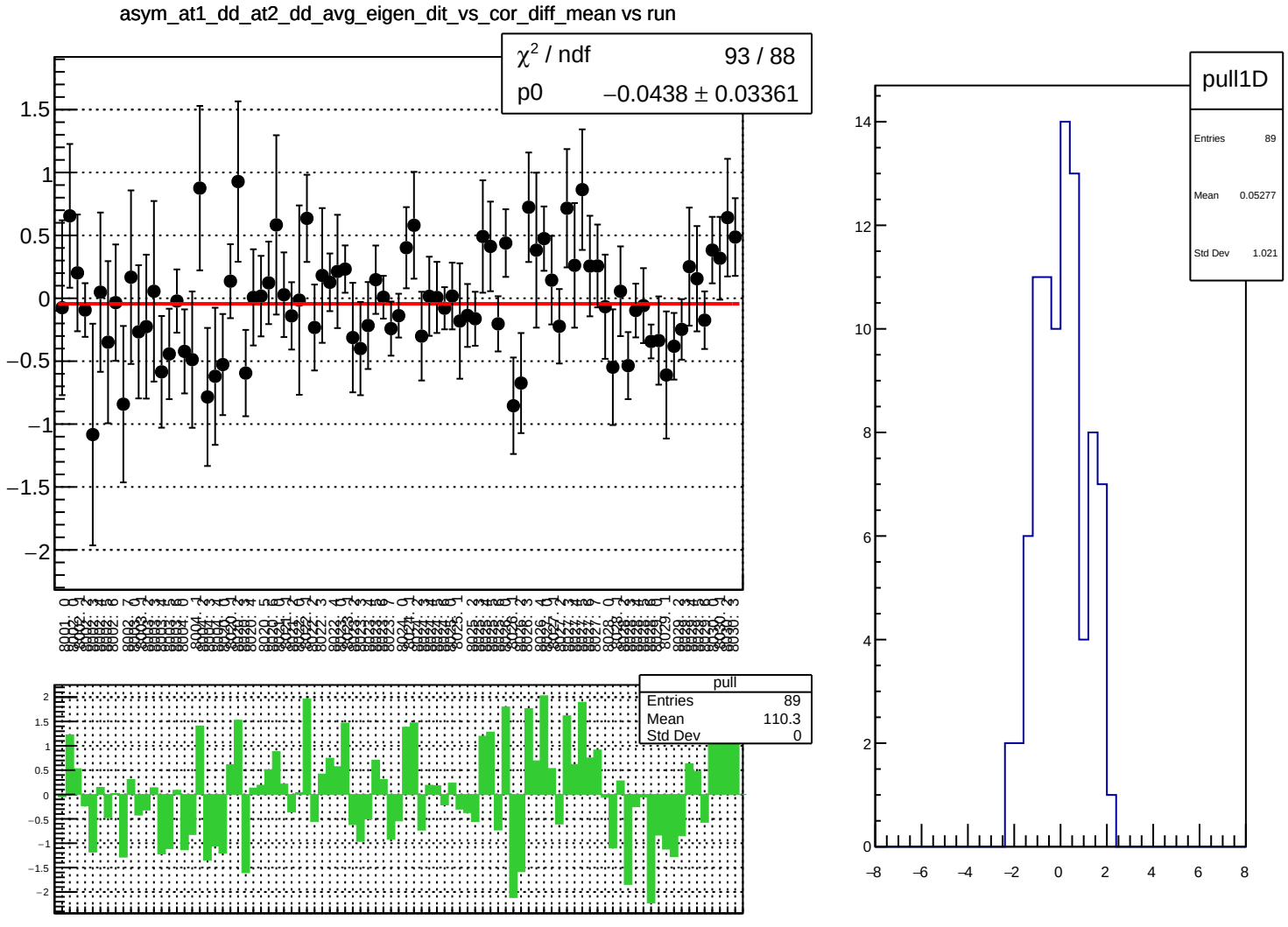

pull1D
Entries 89
Mean 0.05277
Std Dev 1.021

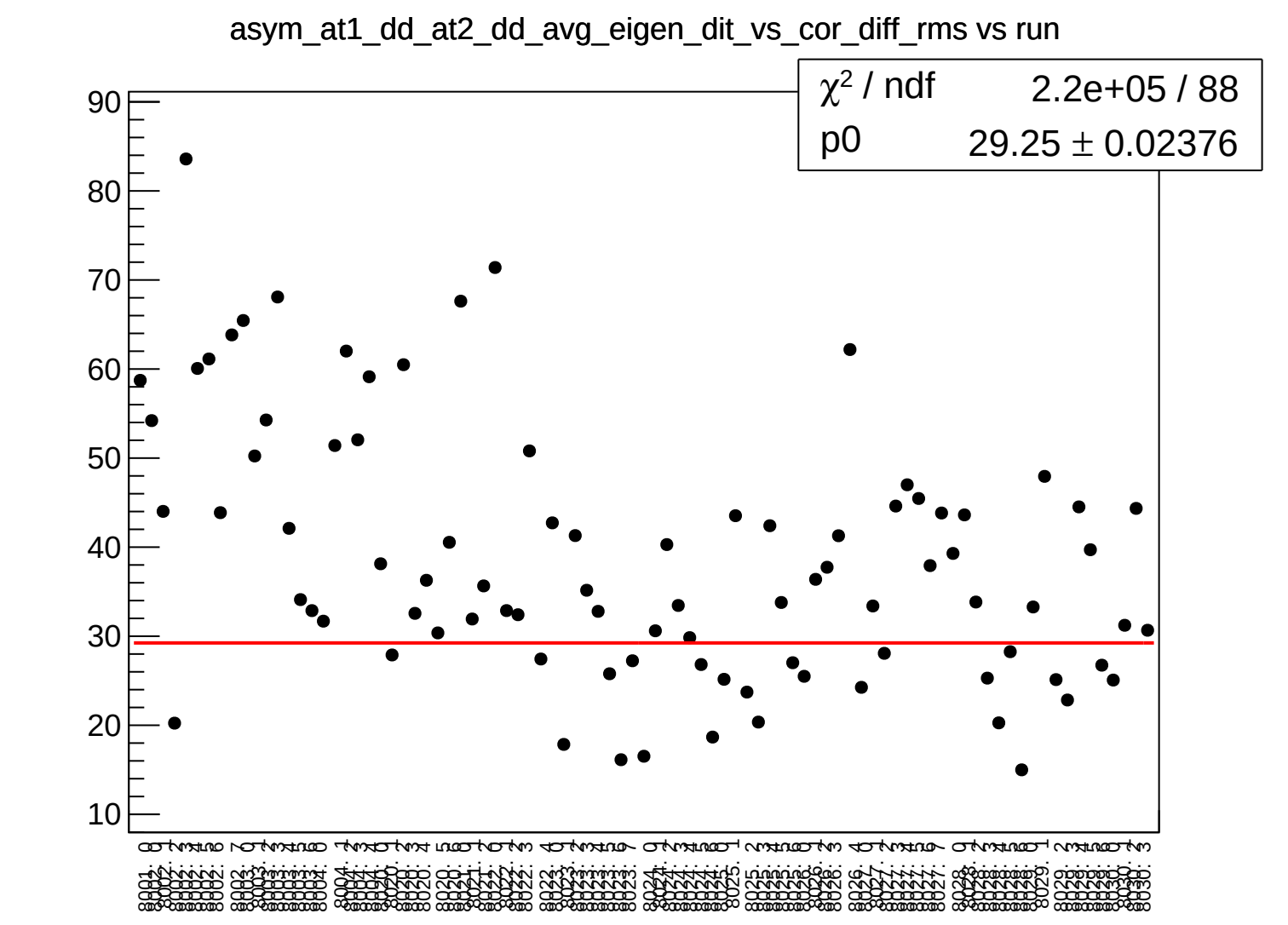

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.2e+05 / 88
p0 29.25 ± 0.02376
90
80
70
60
50
40
30
20
10

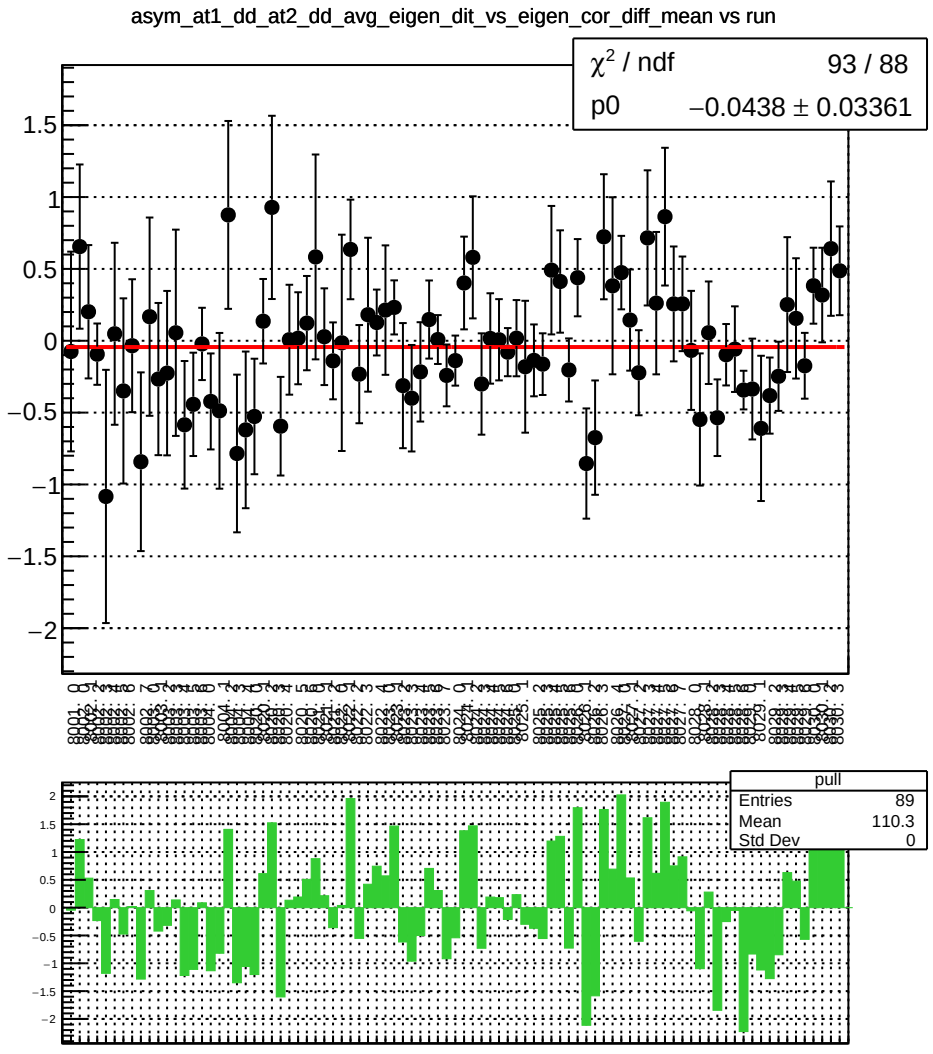

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.22 / 88
p0 1.005e−06 ± 2.83e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 89
Mean 105.3
Std Dev 0
2
1
0
−1
−2

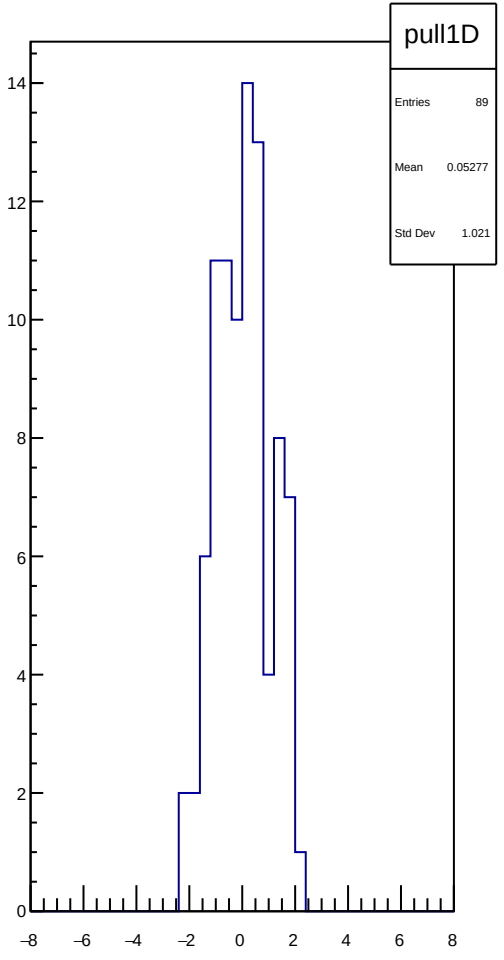

pull1D
Entries 89
Mean 0.02179
Std Dev 1.007
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

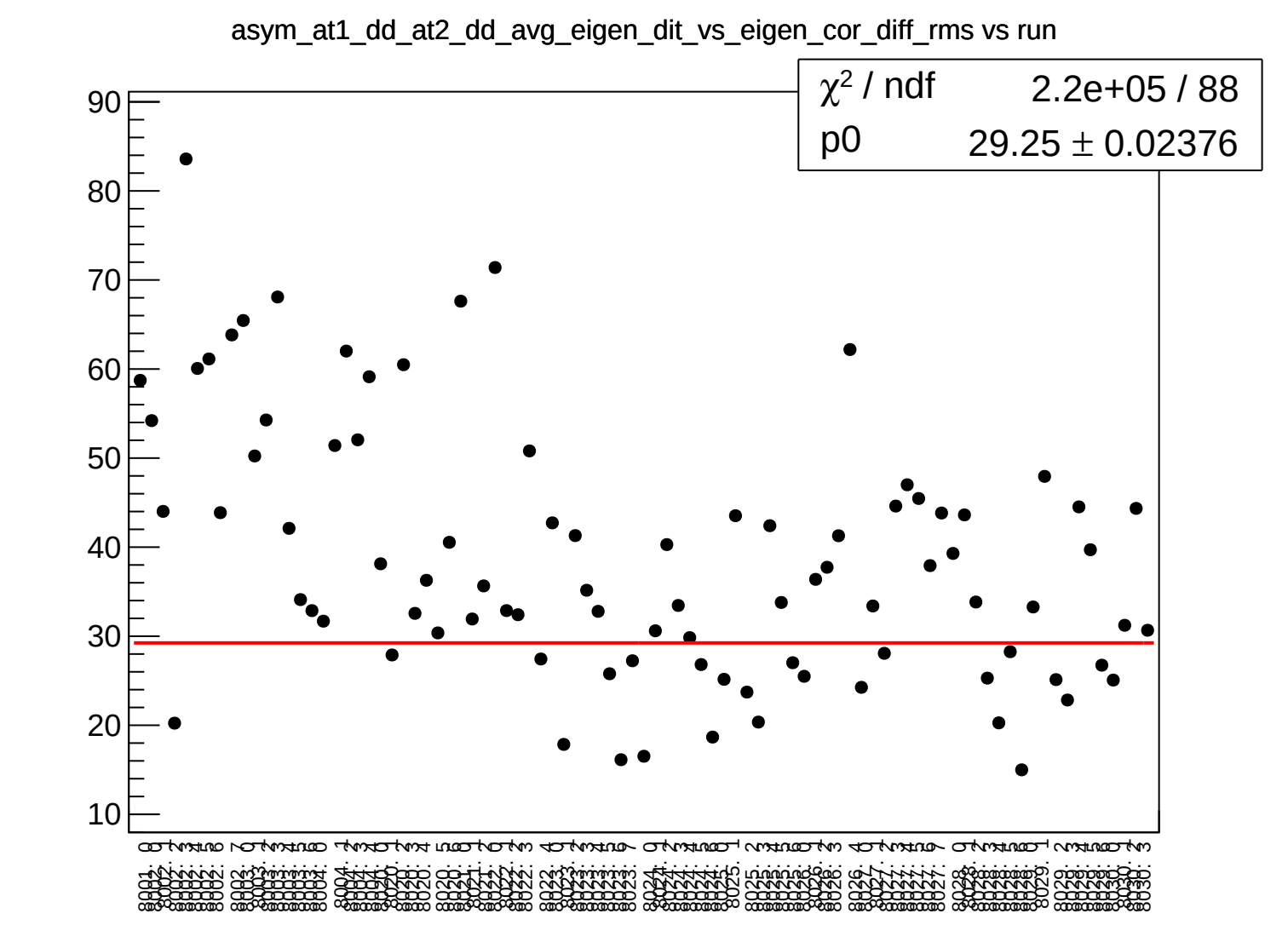

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.689e+04 / 88
p0 0.002623 ± 2.001e−06
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022

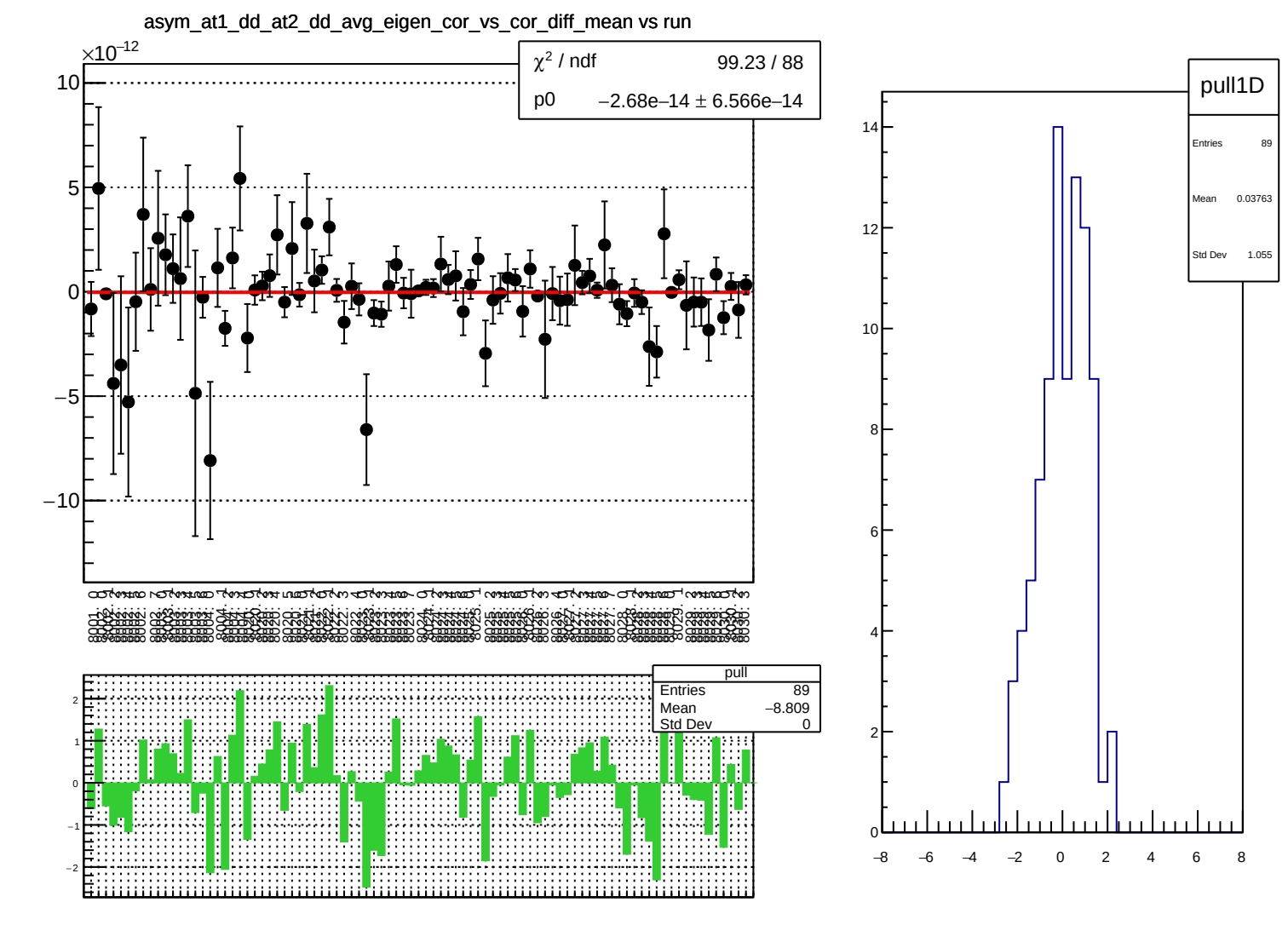

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93 / 88
p0 −0.0438 ± 0.03361
pull
Entries 89
Mean 110.3
Std Dev 0
pull1D
Entries 89
Mean 0.05277
Std Dev 1.021

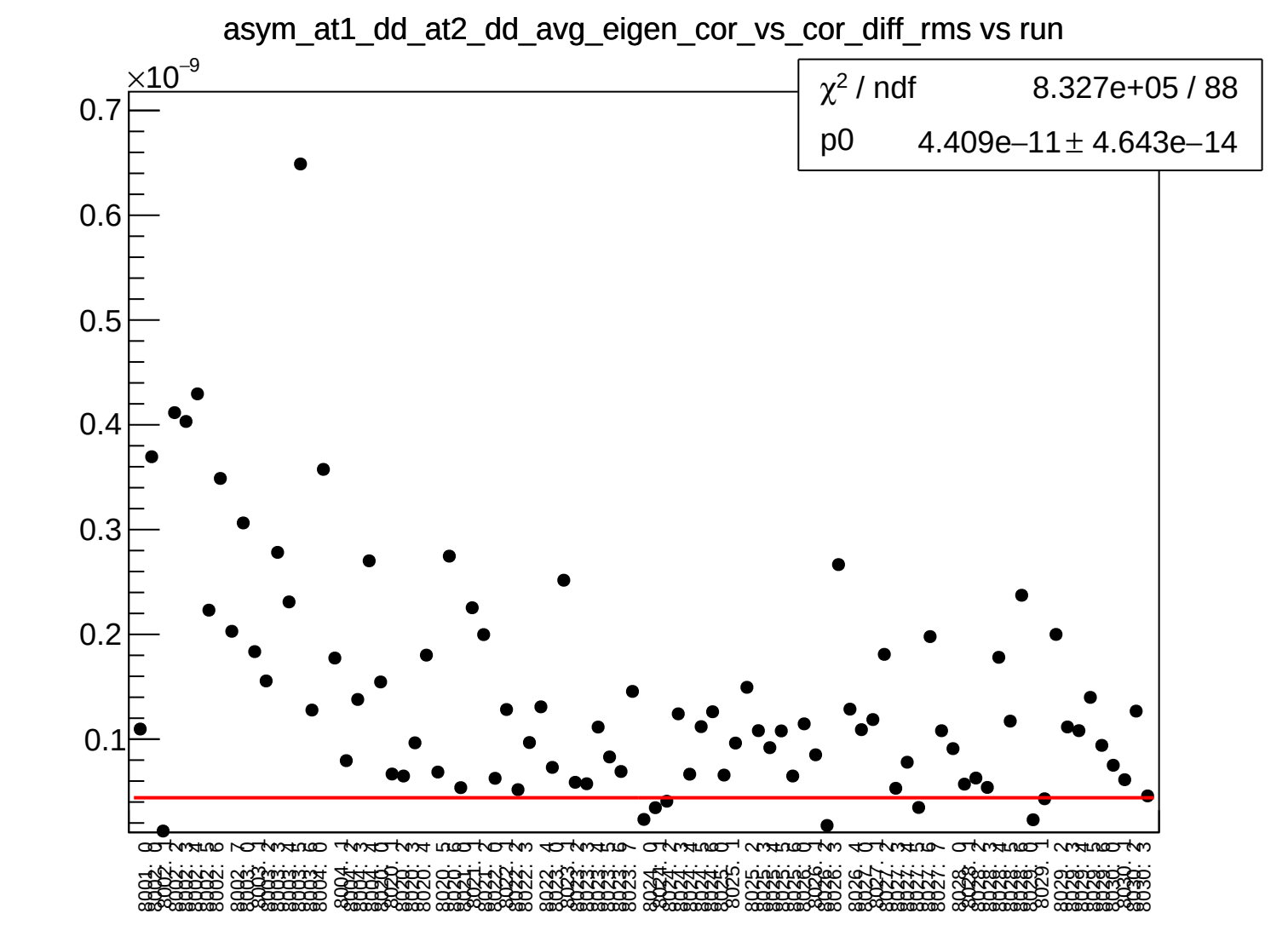

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.2e+05 / 88
p0 29.25 ± 0.02376
90
80
70
60
50
40
30
20
10

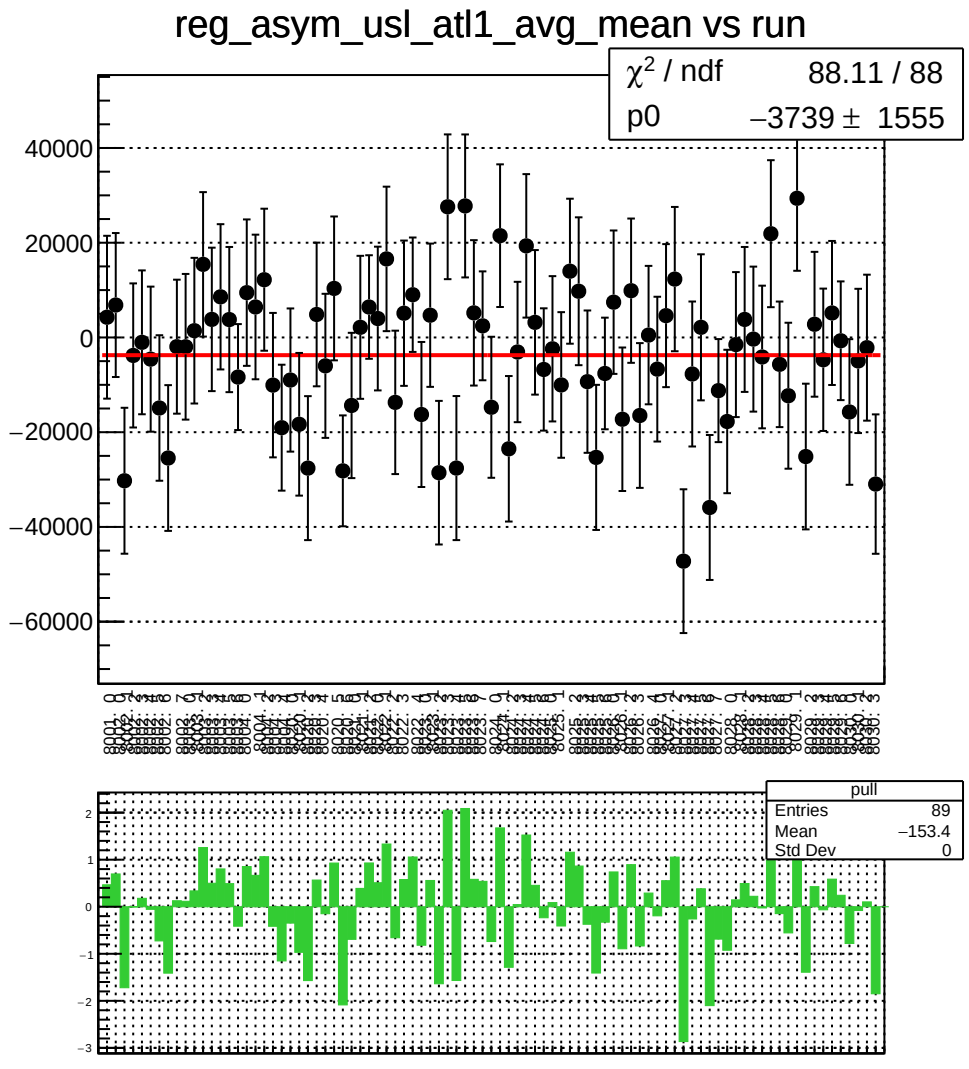

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93 / 88
p0 −0.0438 ± 0.03361
pull
Entries 89
Mean 110.3
Std Dev 0

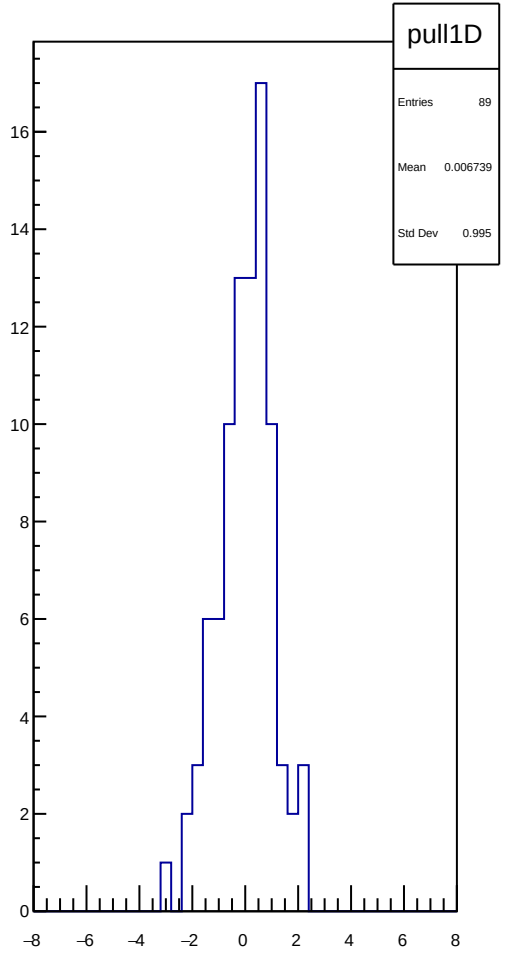

pull1D
Entries 89
Mean 0.05277
Std Dev 1.021

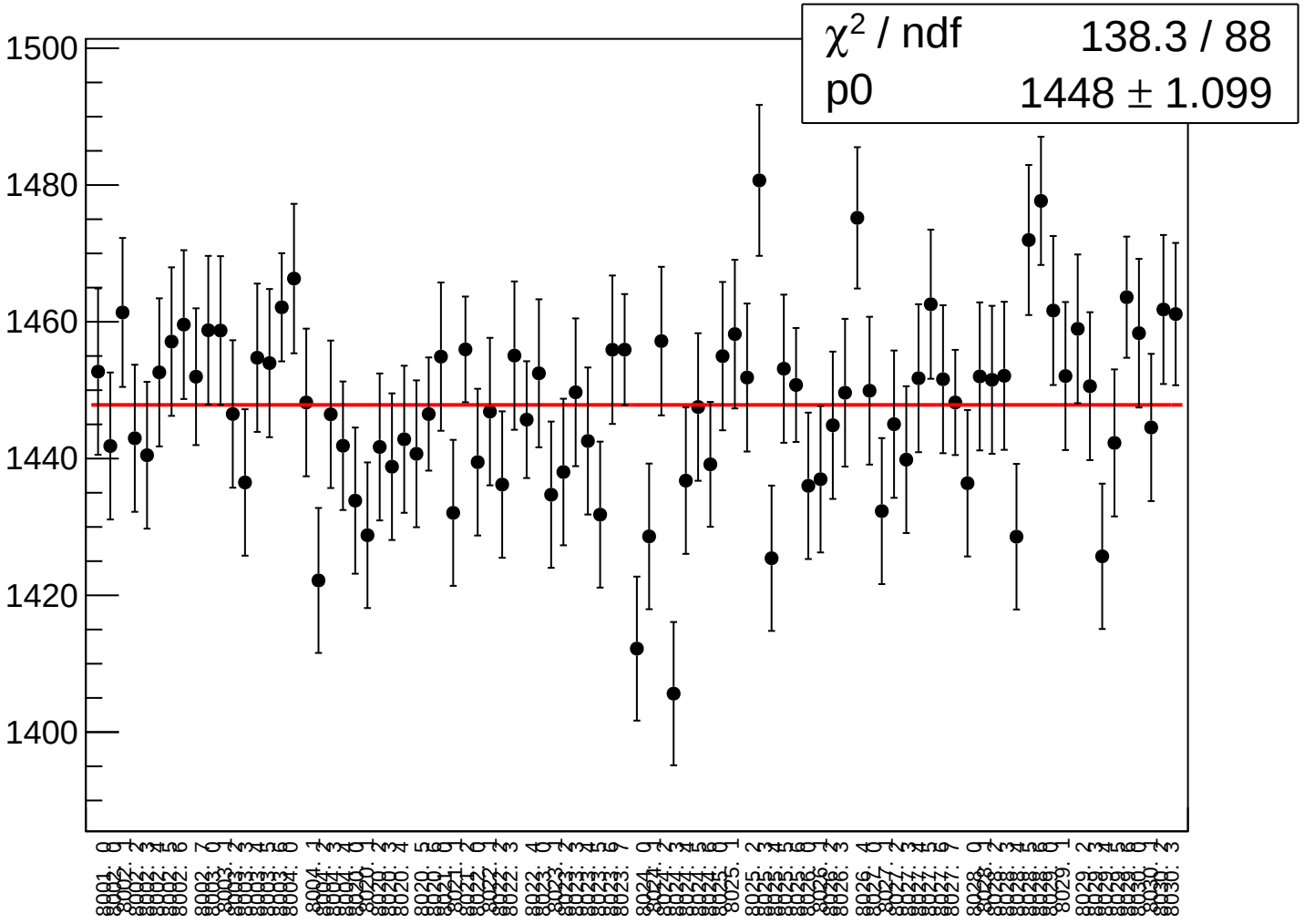

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.2e+05 / 88
p0 29.25 ± 0.02376
90
80
70
60
50
40
30
20
10

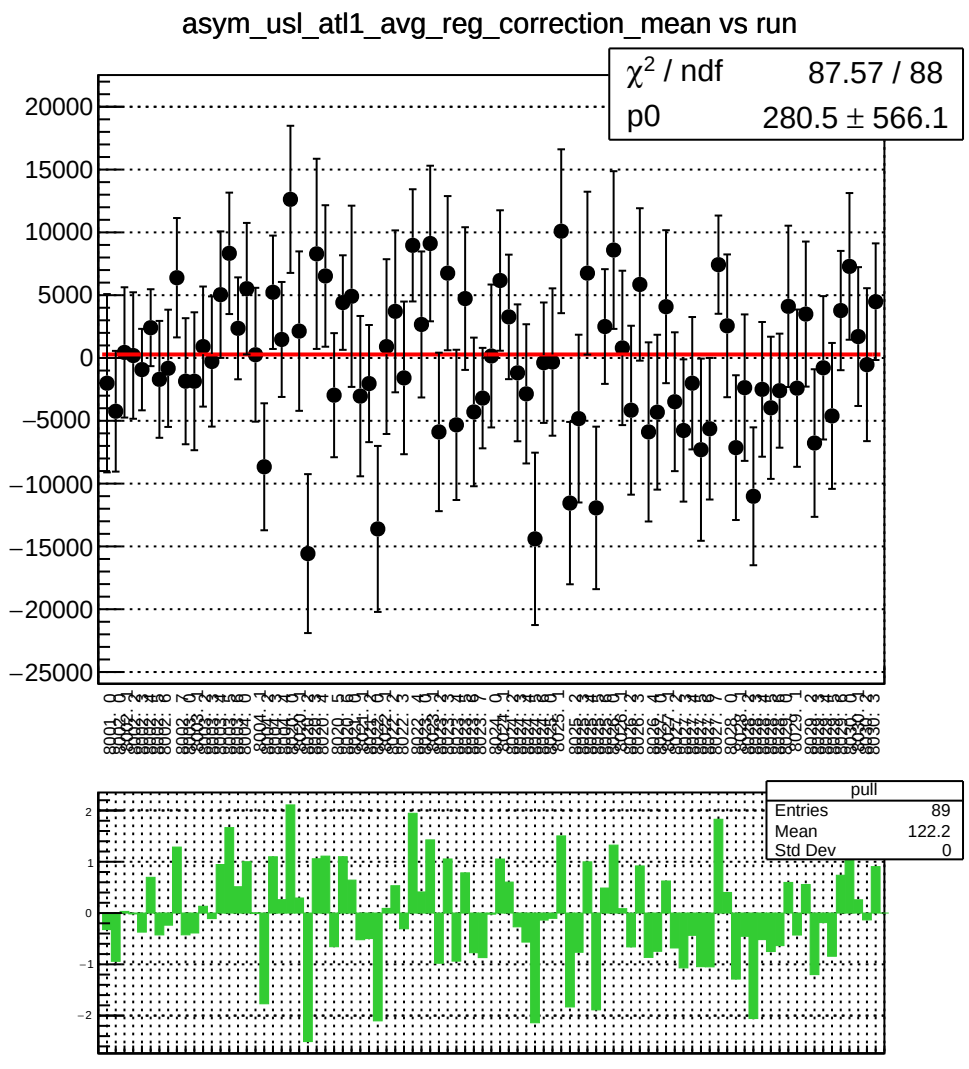

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.23 / 88
p0 −2.68e−14 ± 6.566e−14
pull
Entries 89
Mean −8.809
Std Dev 0
pull1D
Entries 89
Mean 0.03763
Std Dev 1.055

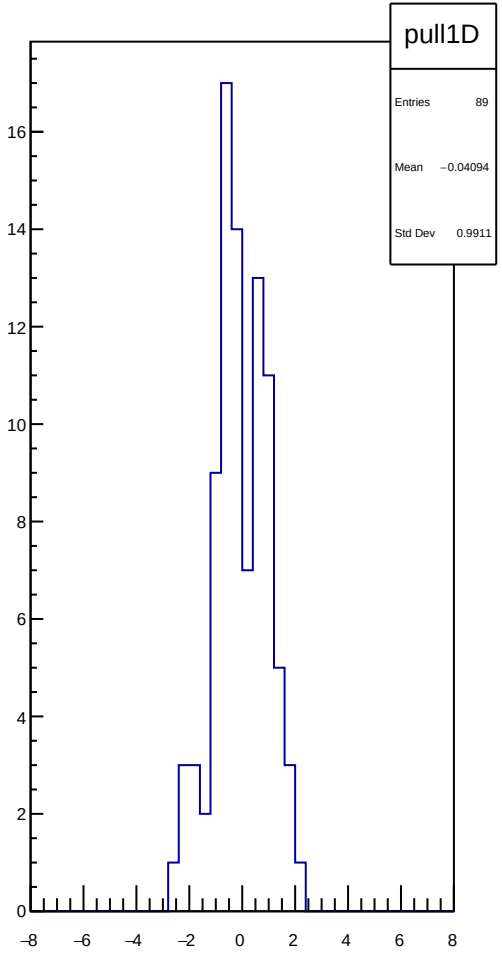

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.327e+05 / 88
p0 4.409e−11 ± 4.643e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

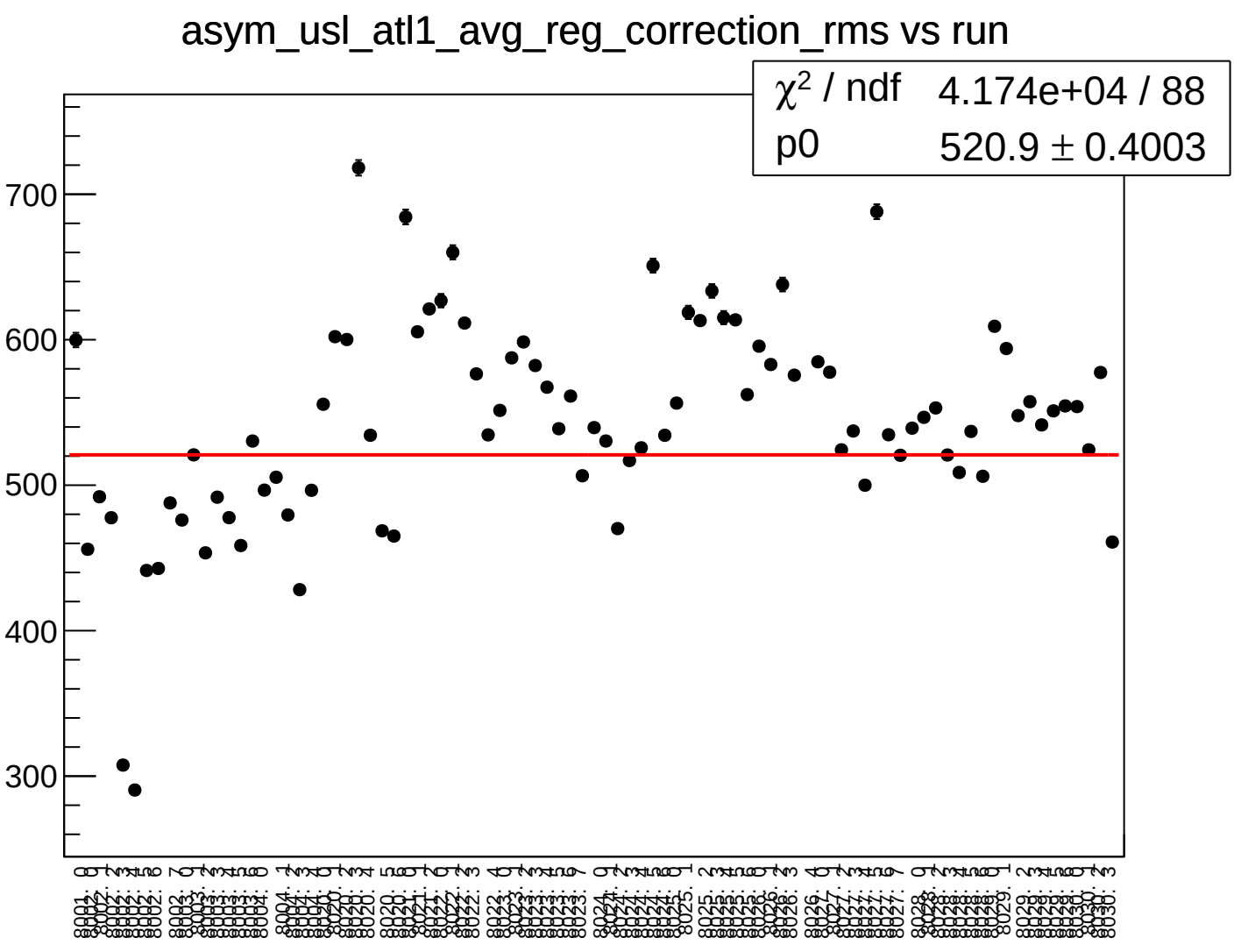

reg_asym_usl_atl1_avg_mean vs run
χ² / ndf 88.11 / 88
p0 −3739 ± 1555
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −153.4
Std Dev 0
2
1
0
−1
−2
−3

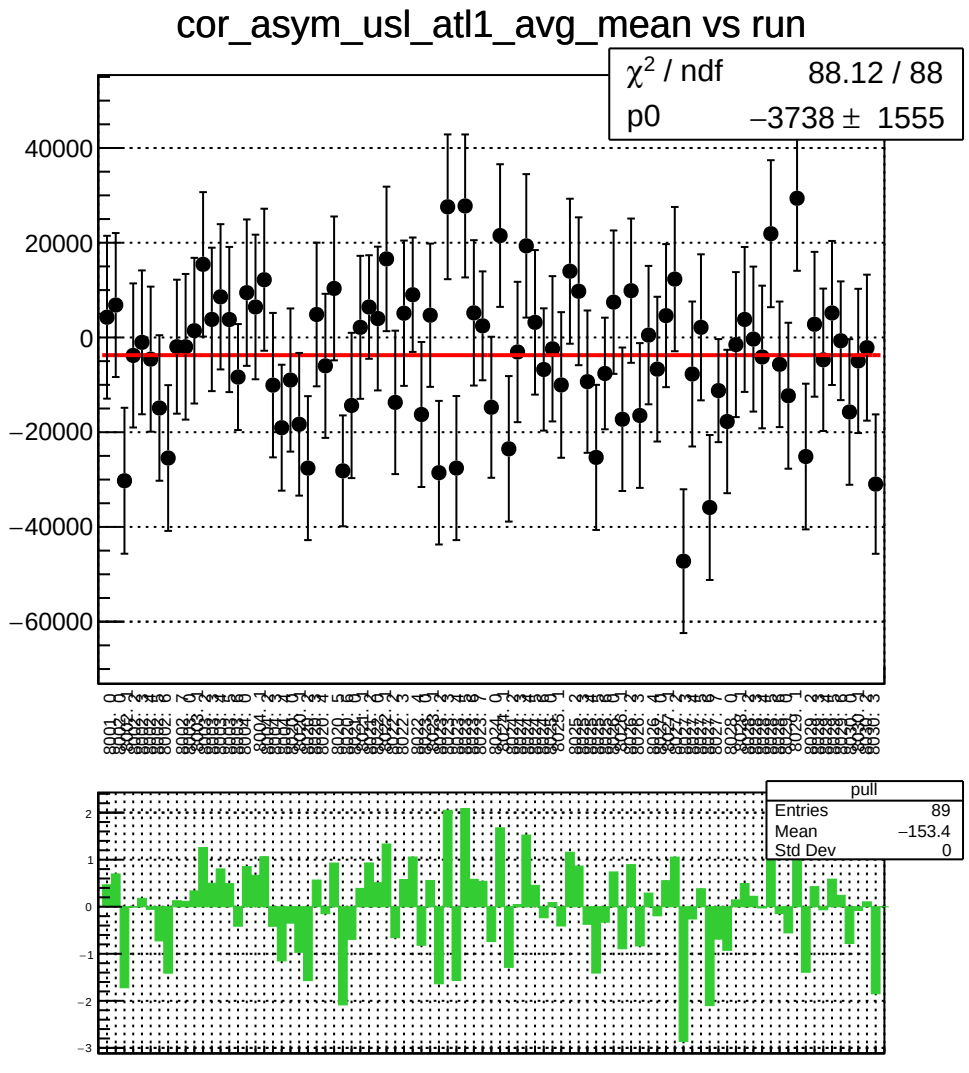

pull1D
Entries 89
Mean 0.006739
Std Dev 0.995
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

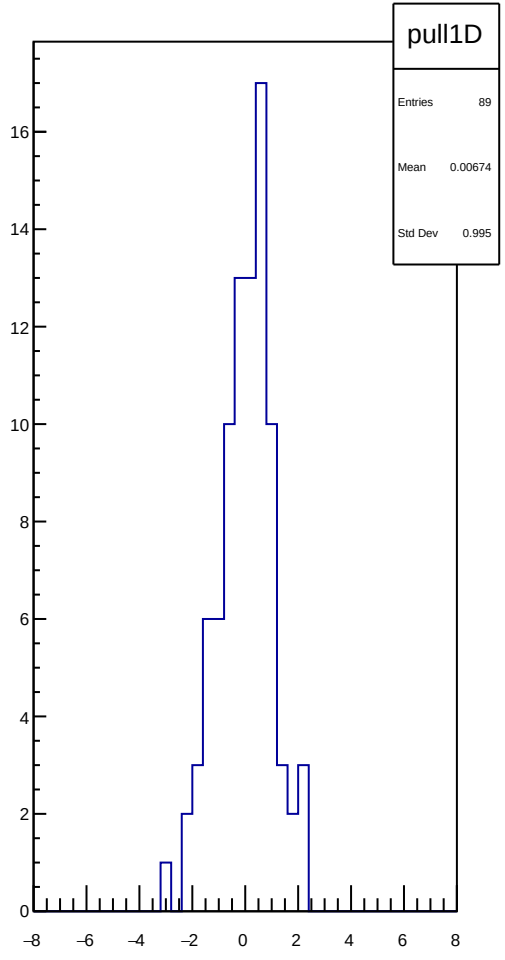

reg_asym_usl_atl1_avg_rms vs run
χ² / ndf 138.3 / 88
p0 1448 ± 1.099
1500
1480
1460
1440
1420
1400

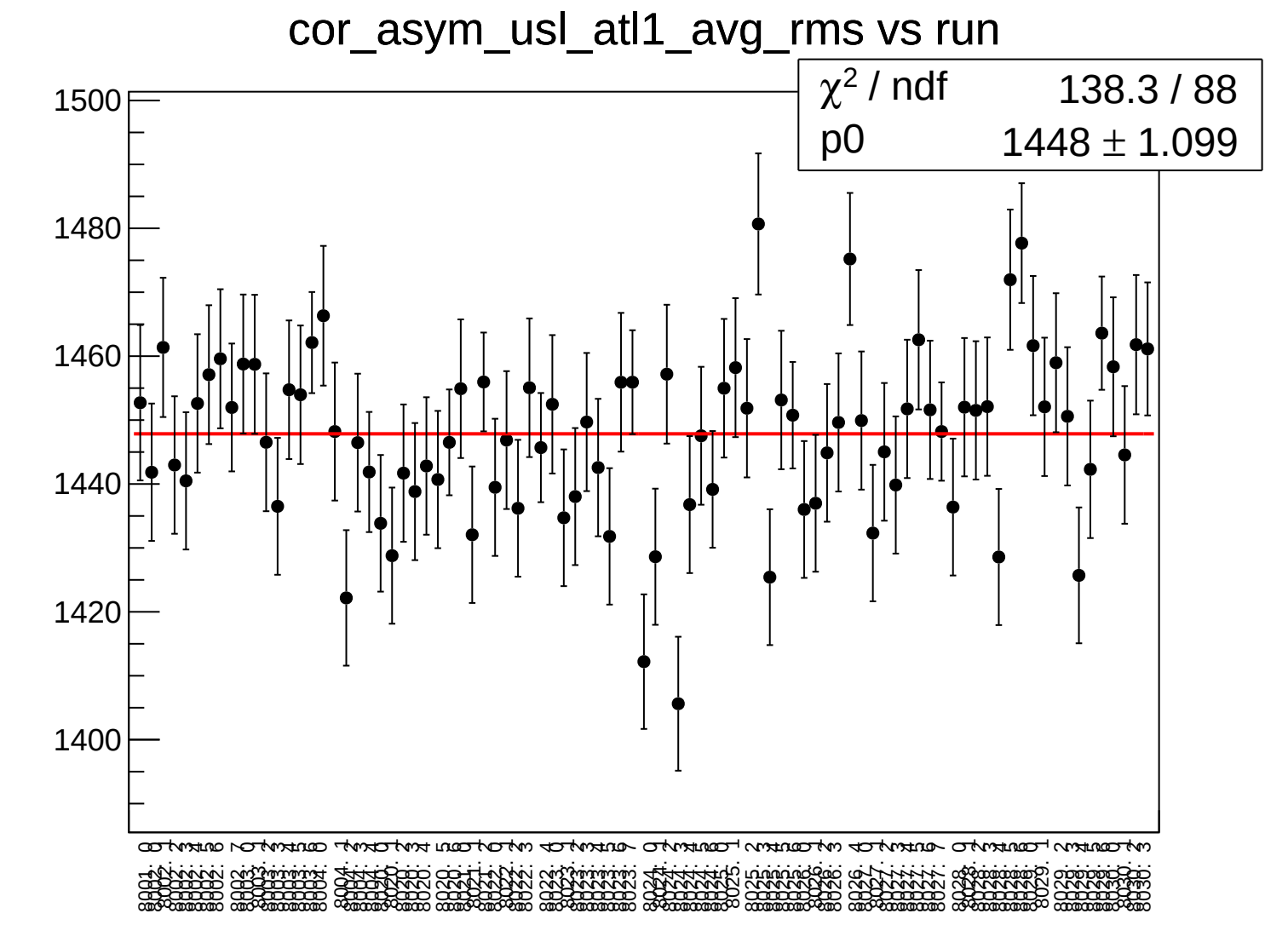

asym_usl_atl1_avg_reg_correction_mean vs run
χ² / ndf 87.57 / 88
p0 280.5 ± 566.1
pull
Entries 89
Mean 122.2
Std Dev 0

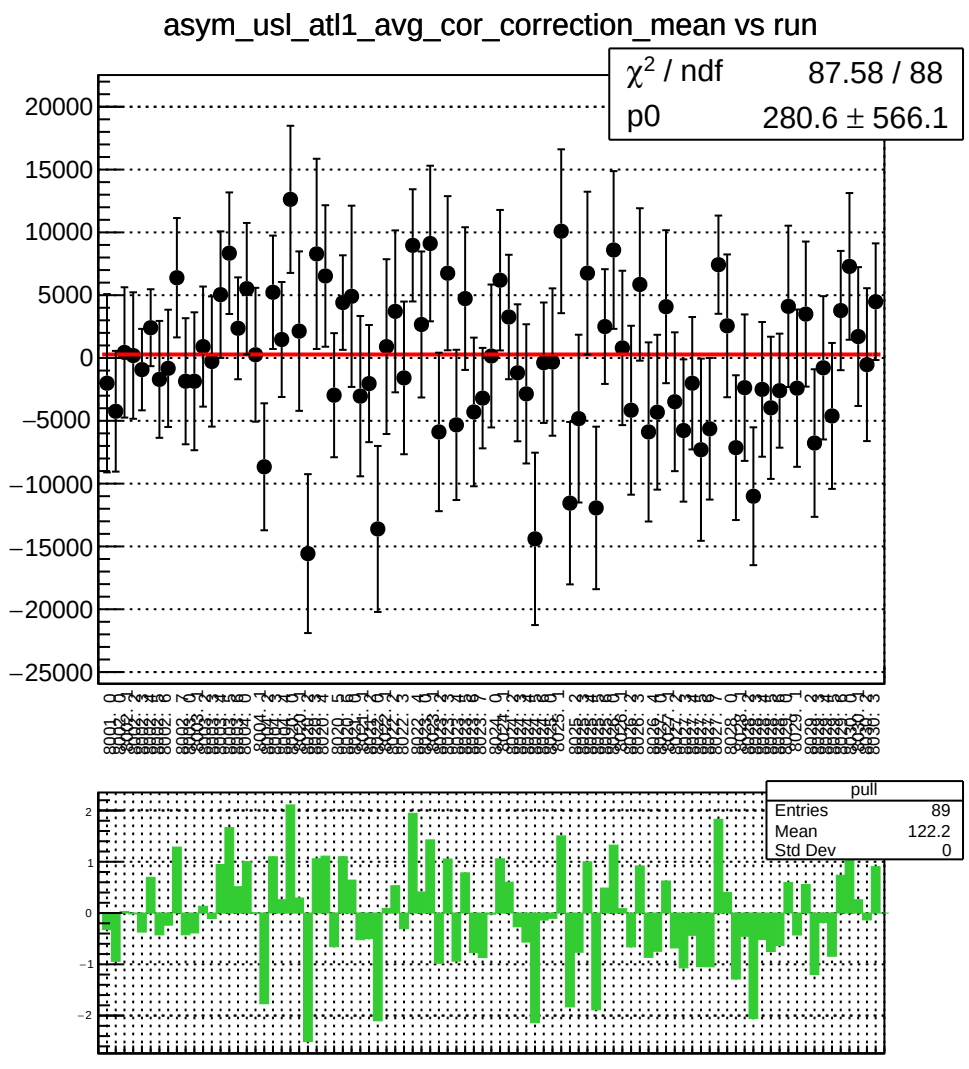

pull1D
Entries 89
Mean −0.04094
Std Dev 0.9911

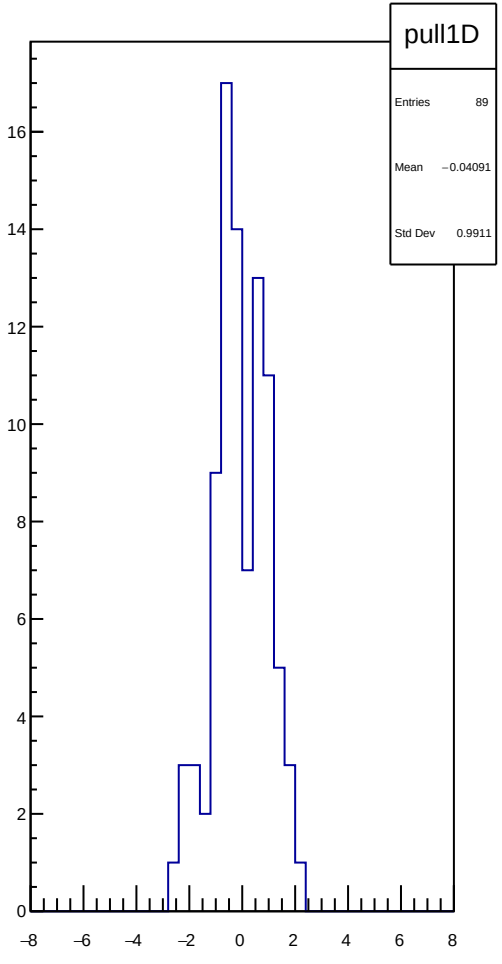

asym_usl_atl1_avg_reg_correction_rms vs run
χ² / ndf 4.174e+04 / 88
p0 520.9 ± 0.4003
700
600
500
400
300

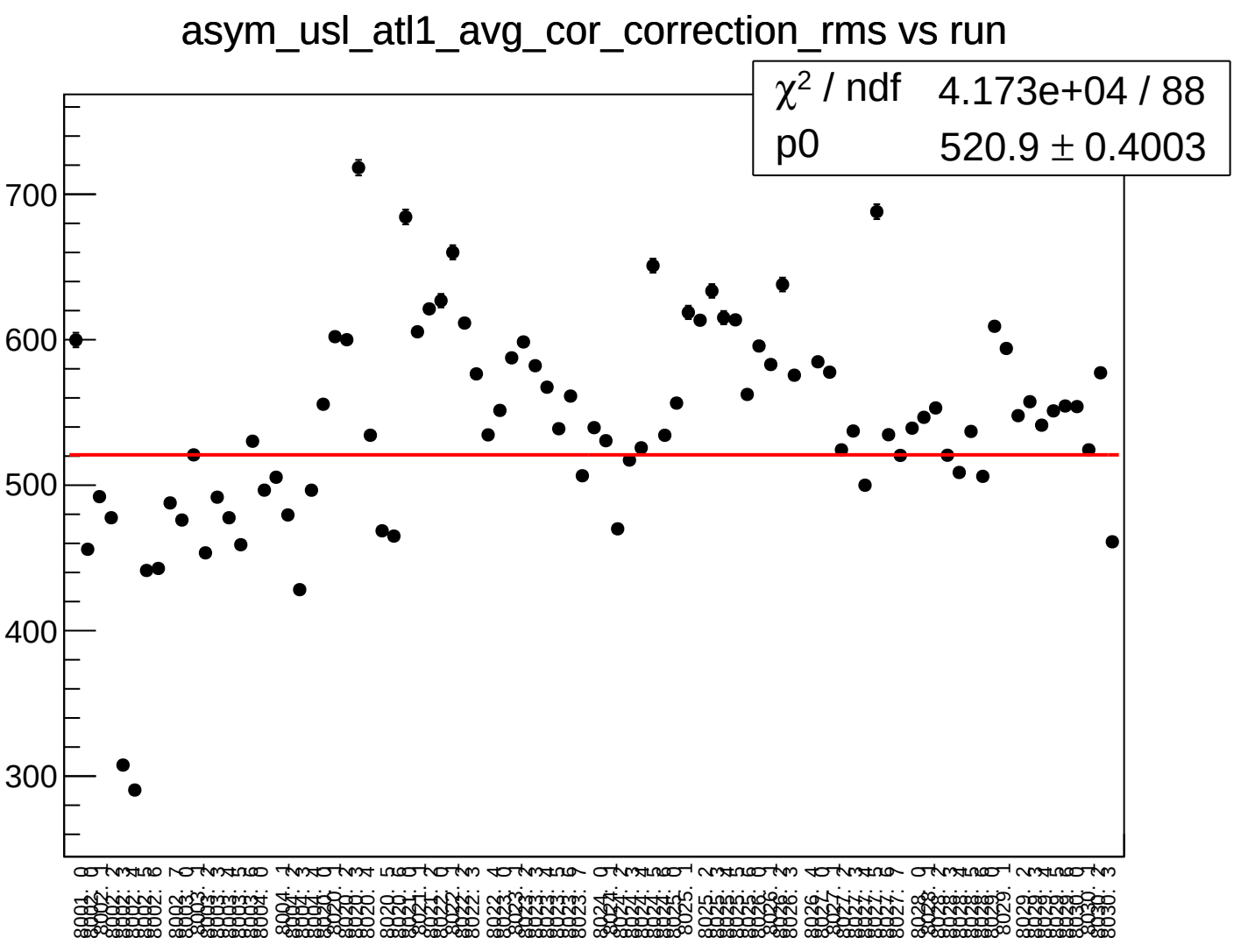

cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 88.12 / 88
p0 −3738 ± 1555
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −153.4
Std Dev 0
2
1
0
−1
−2
−3

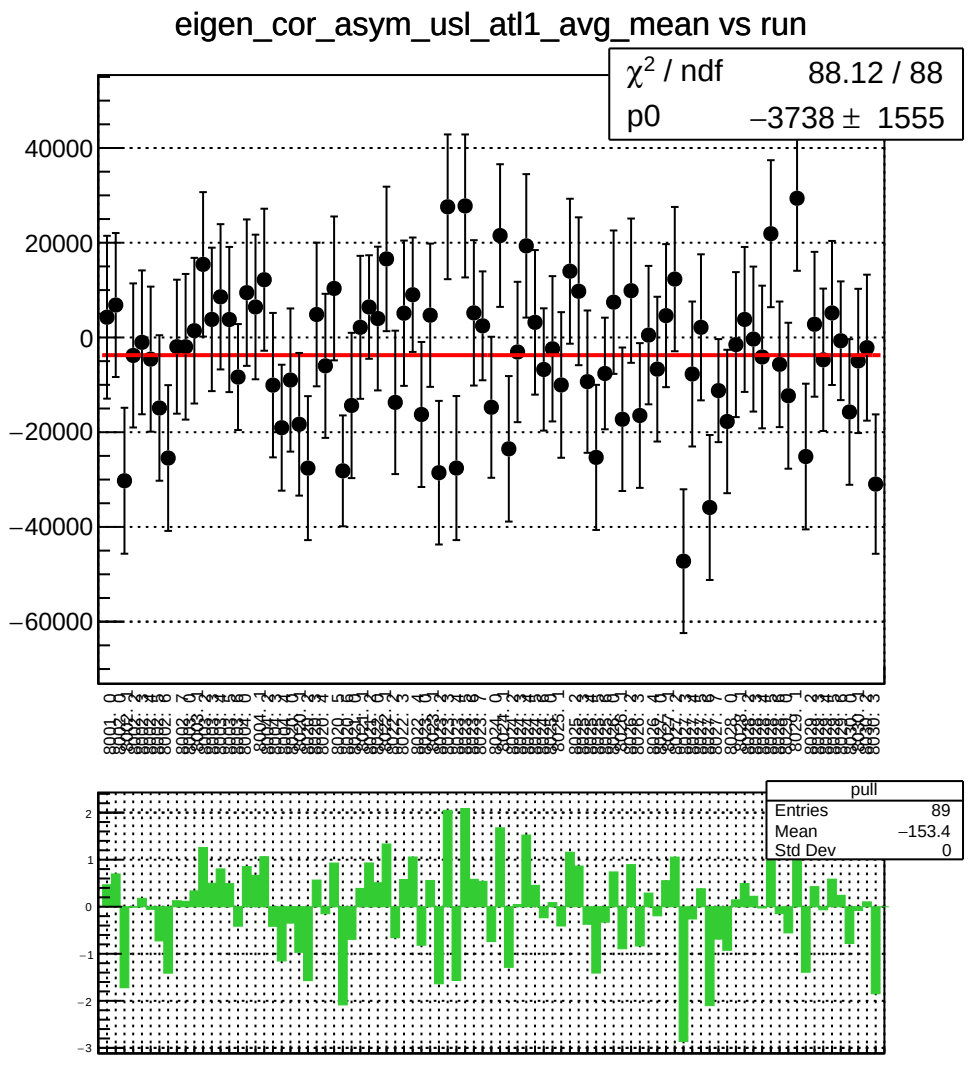

pull1D
Entries 89
Mean 0.00674
Std Dev 0.995
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

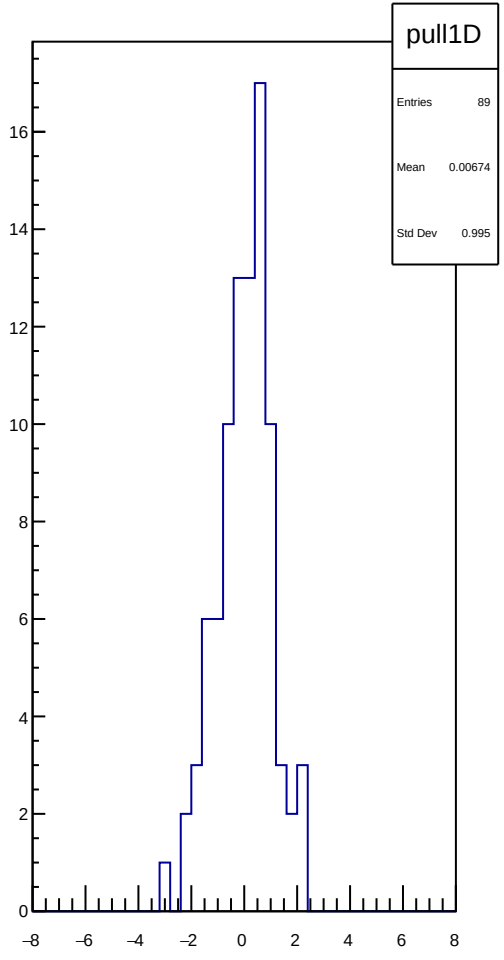

cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 138.3 / 88
p0 1448 ± 1.099
1500
1480
1460
1440
1420
1400

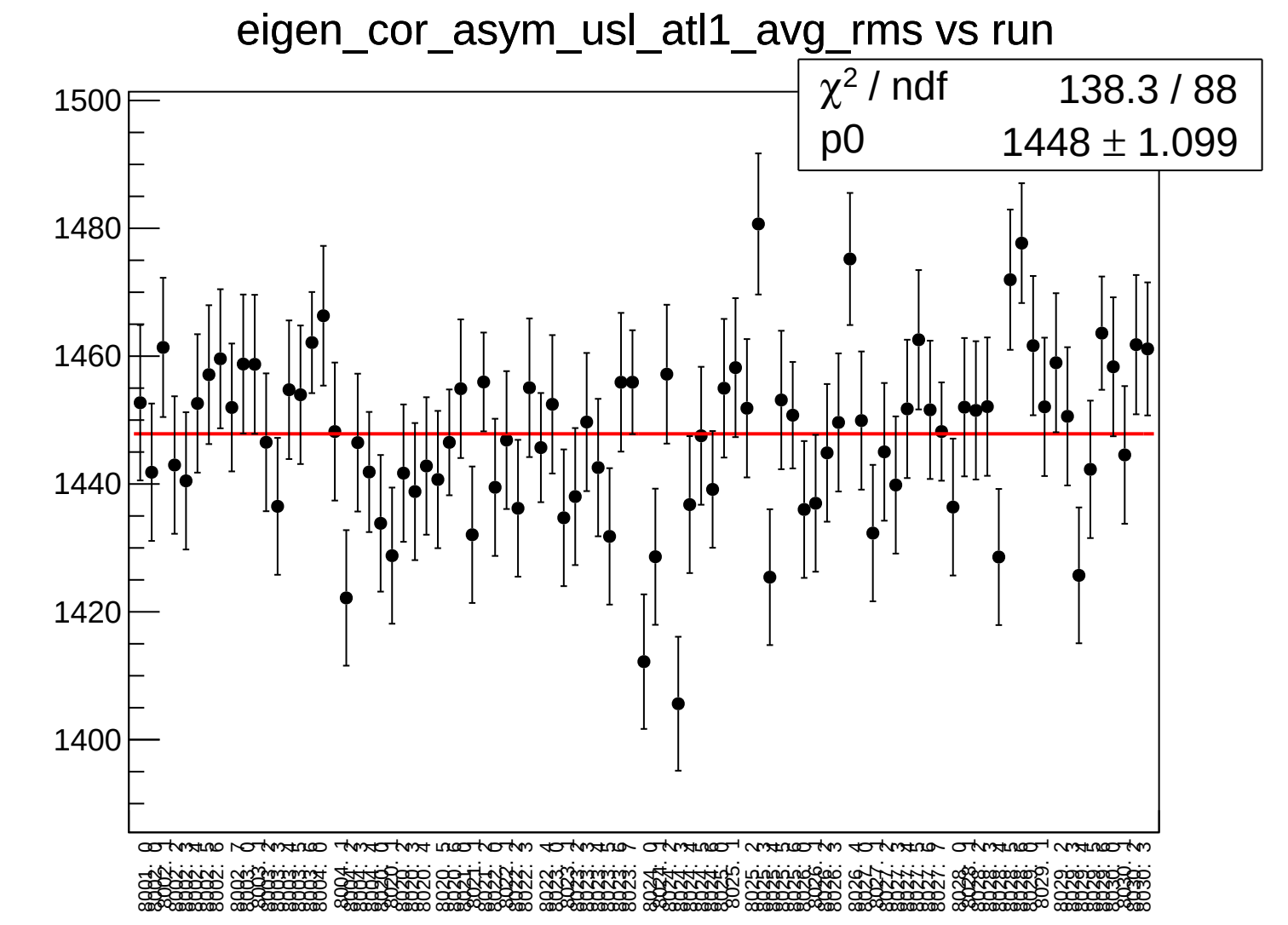

asym_usl_atl1_avg_cor_correction_mean vs run
χ² / ndf 87.58 / 88
p0 280.6 ± 566.1
pull
Entries 89
Mean 122.2
Std Dev 0

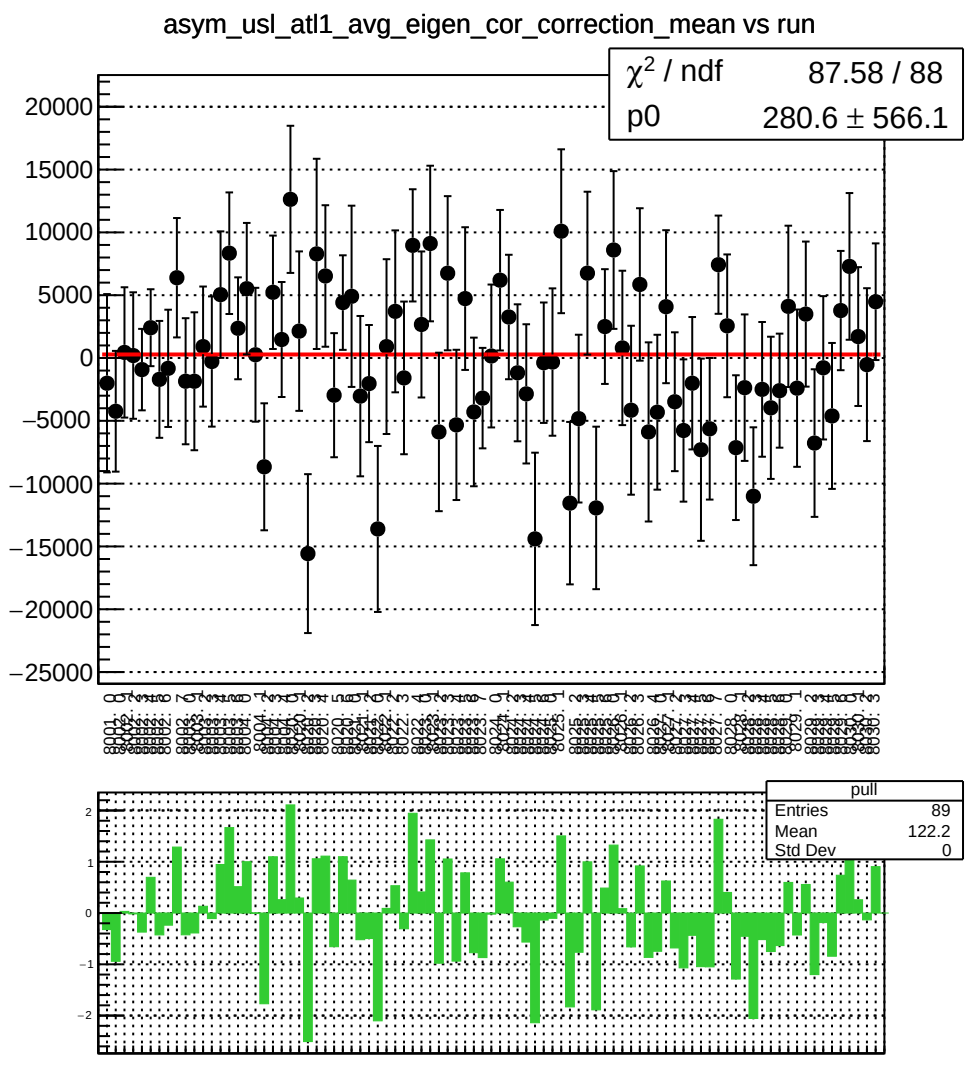

pull1D
Entries 89
Mean −0.04091
Std Dev 0.9911

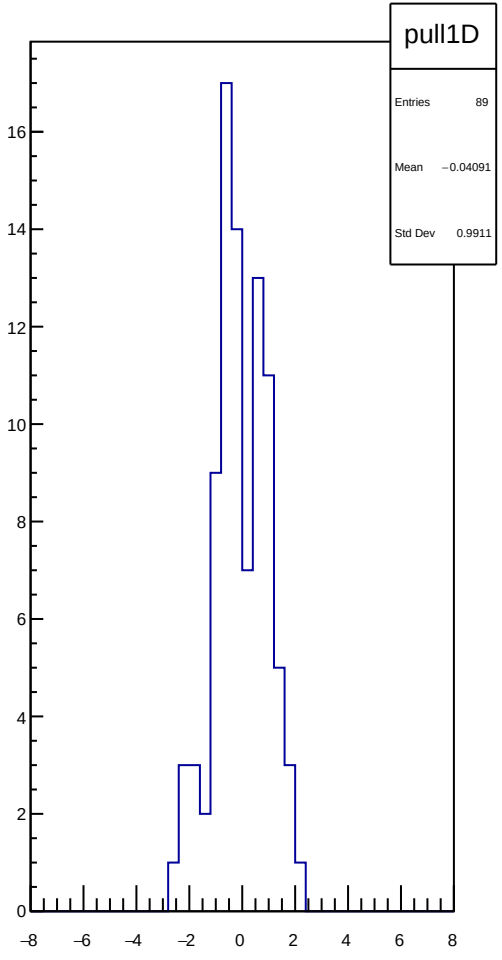

asym_usl_atl1_avg_cor_correction_rms vs run
χ² / ndf 4.173e+04 / 88
p0 520.9 ± 0.4003
700
600
500
400
300

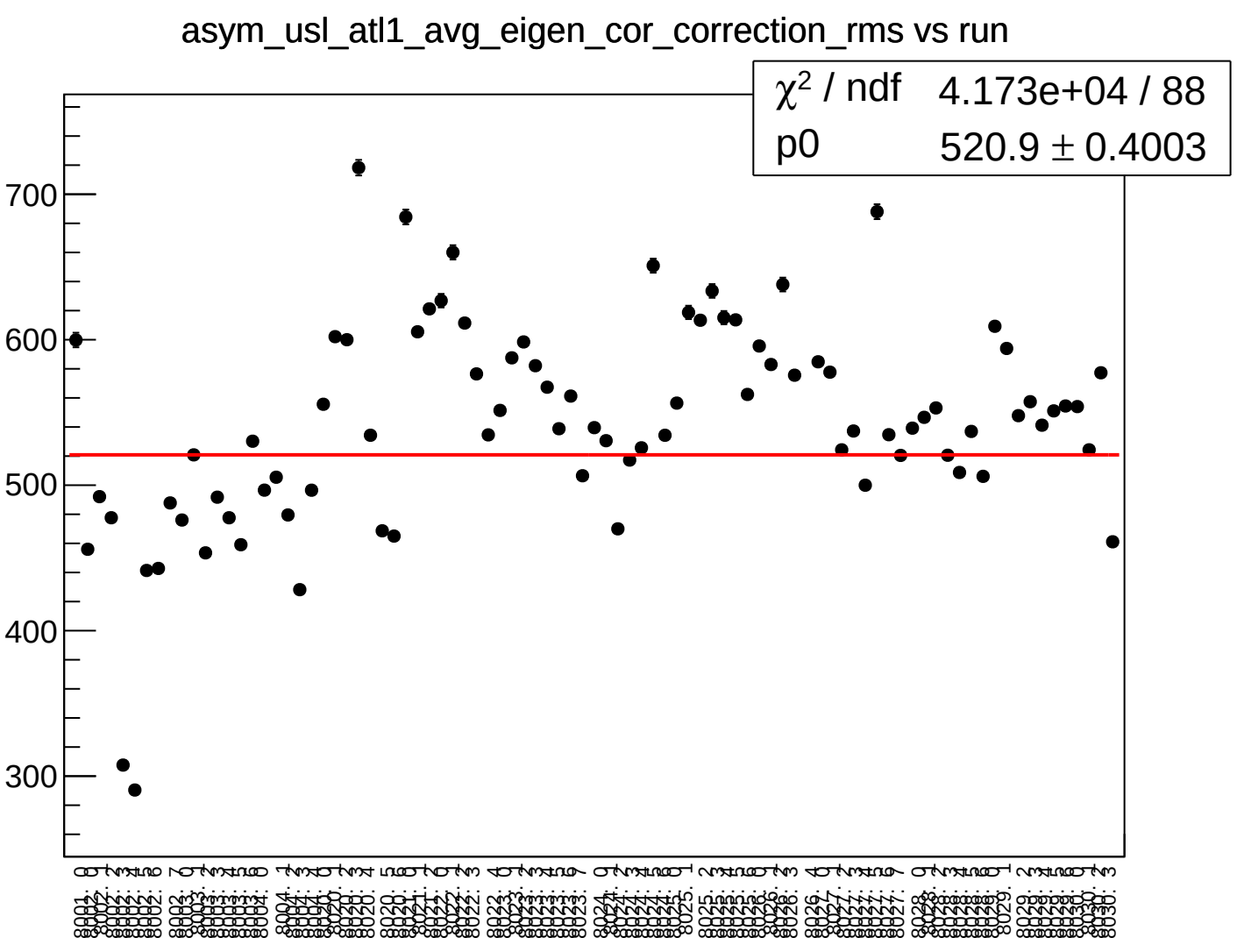

eigen_cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 88.12 / 88
p0 −3738 ± 1555
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −153.4
Std Dev 0
2
1
0
−1
−2
−3

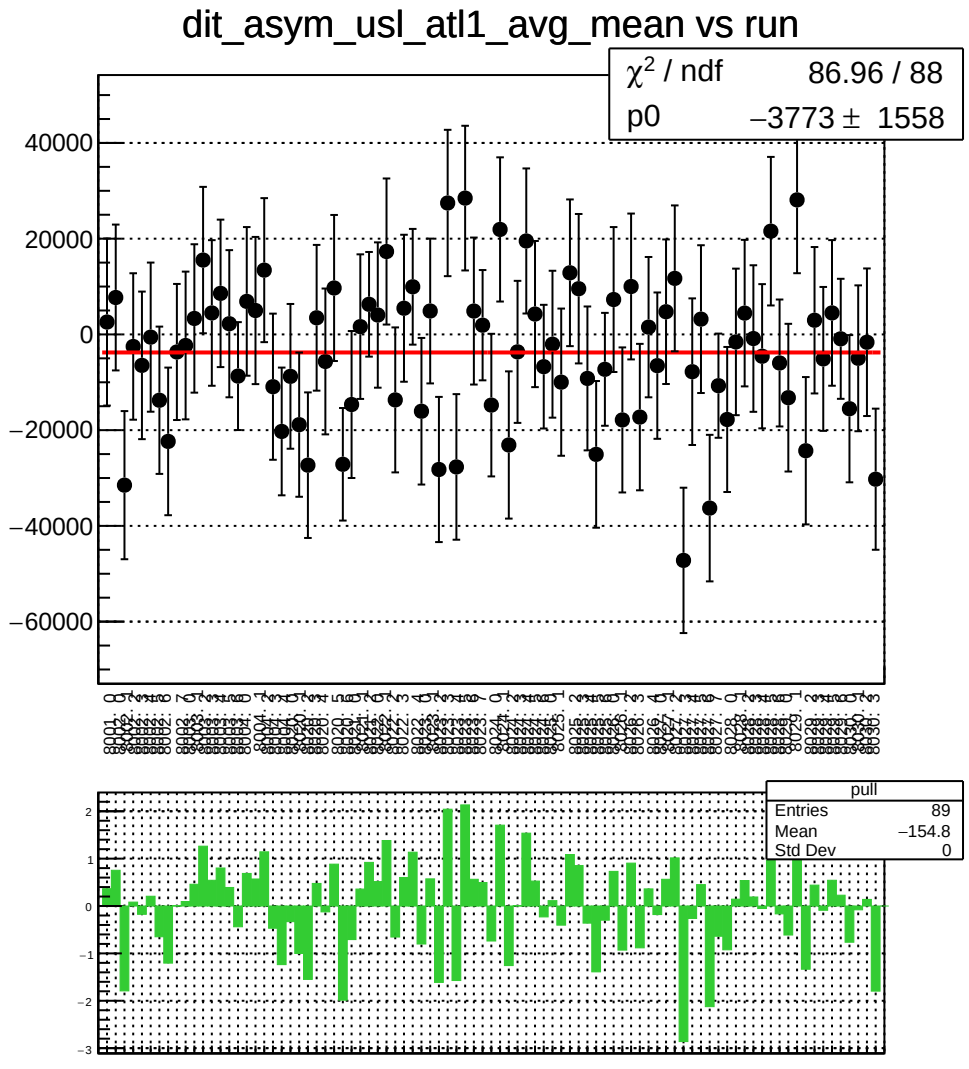

pull1D
Entries 89
Mean 0.00674
Std Dev 0.995
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

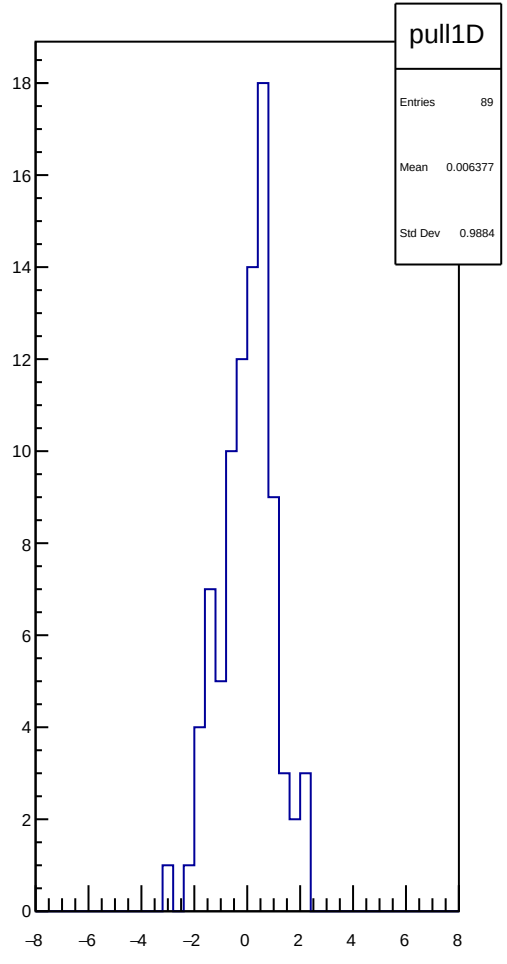

eigen_cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 138.3 / 88
p0 1448 ± 1.099
1500
1480
1460
1440
1420
1400

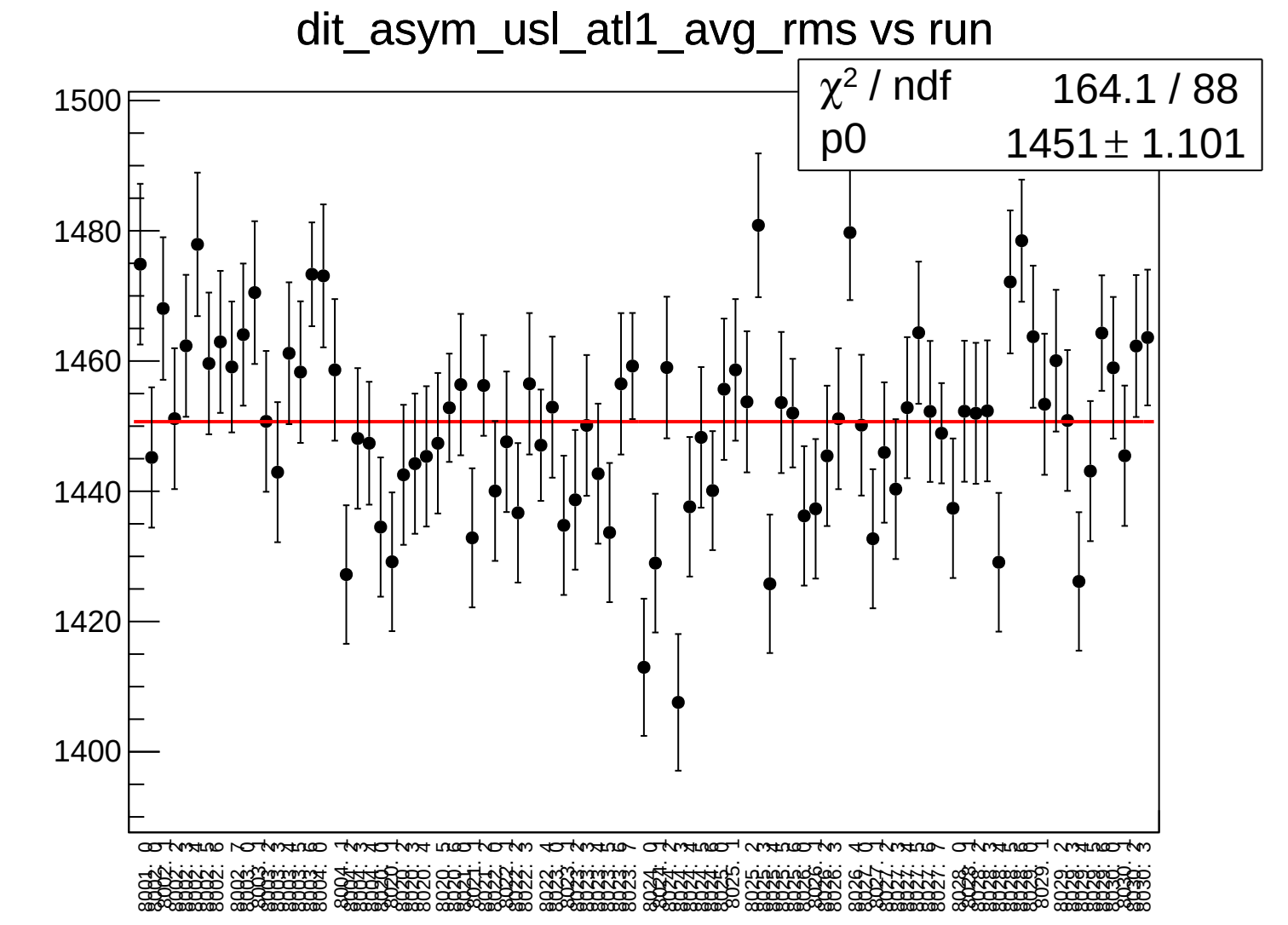

asym_usl_atl1_avg_eigen_cor_correction_mean vs run
χ² / ndf 87.58 / 88
p0 280.6 ± 566.1
pull
Entries 89
Mean 122.2
Std Dev 0

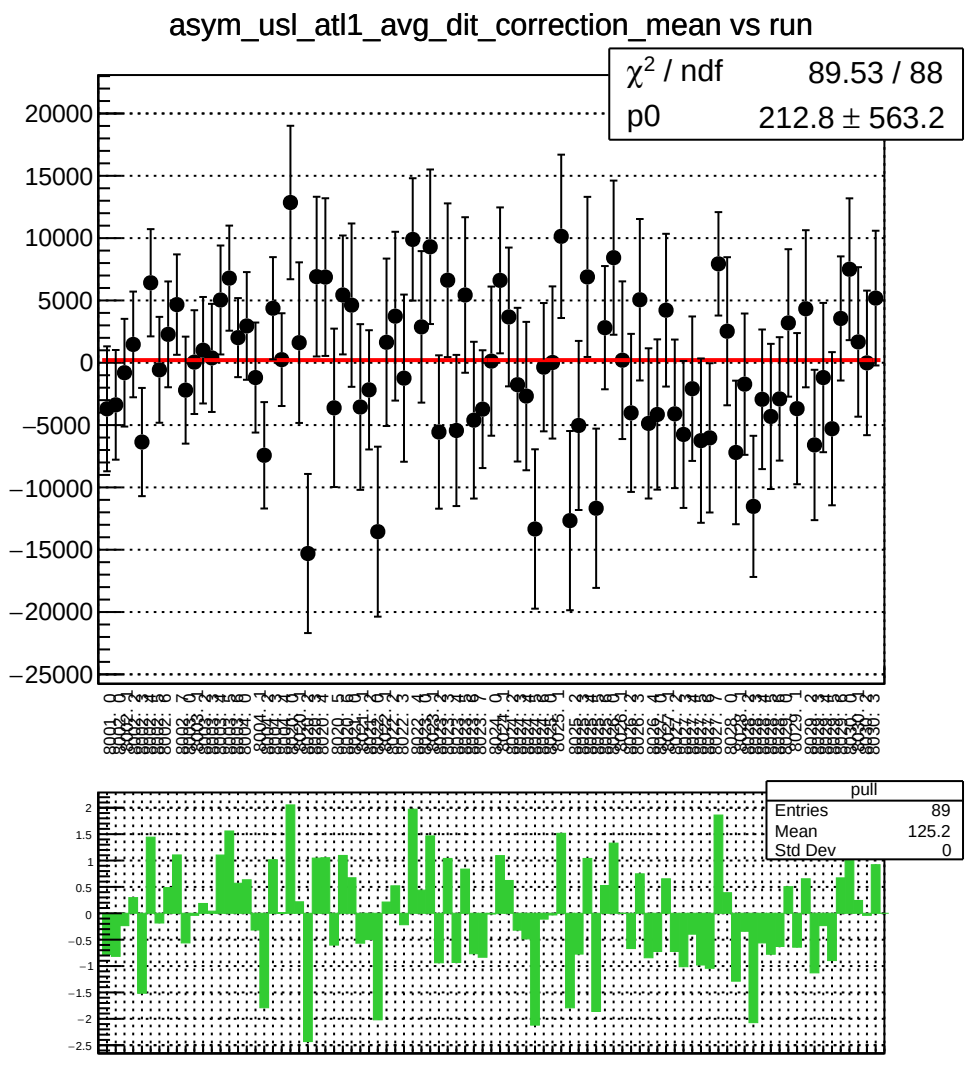

pull1D
Entries 89
Mean −0.04091
Std Dev 0.9911

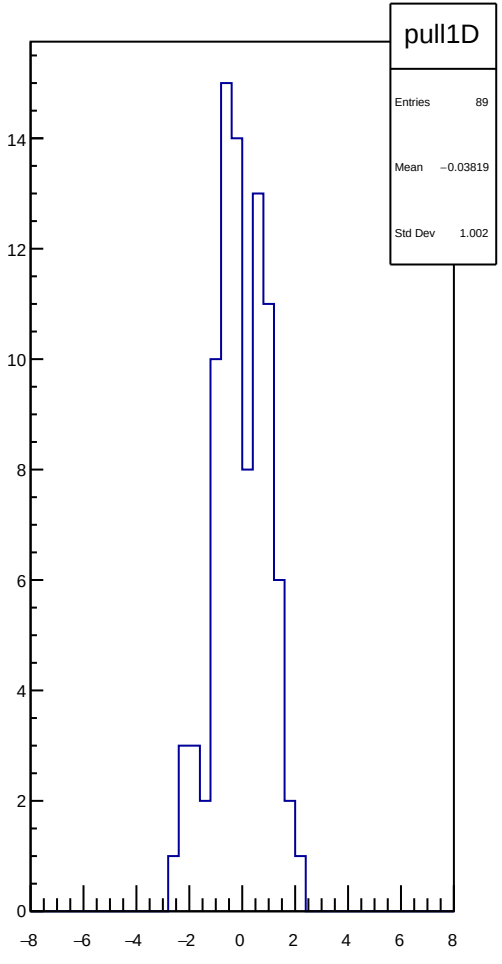

asym_usl_atl1_avg_eigen_cor_correction_rms vs run
χ² / ndf 4.173e+04 / 88
p0 520.9 ± 0.4003
700
600
500
400
300

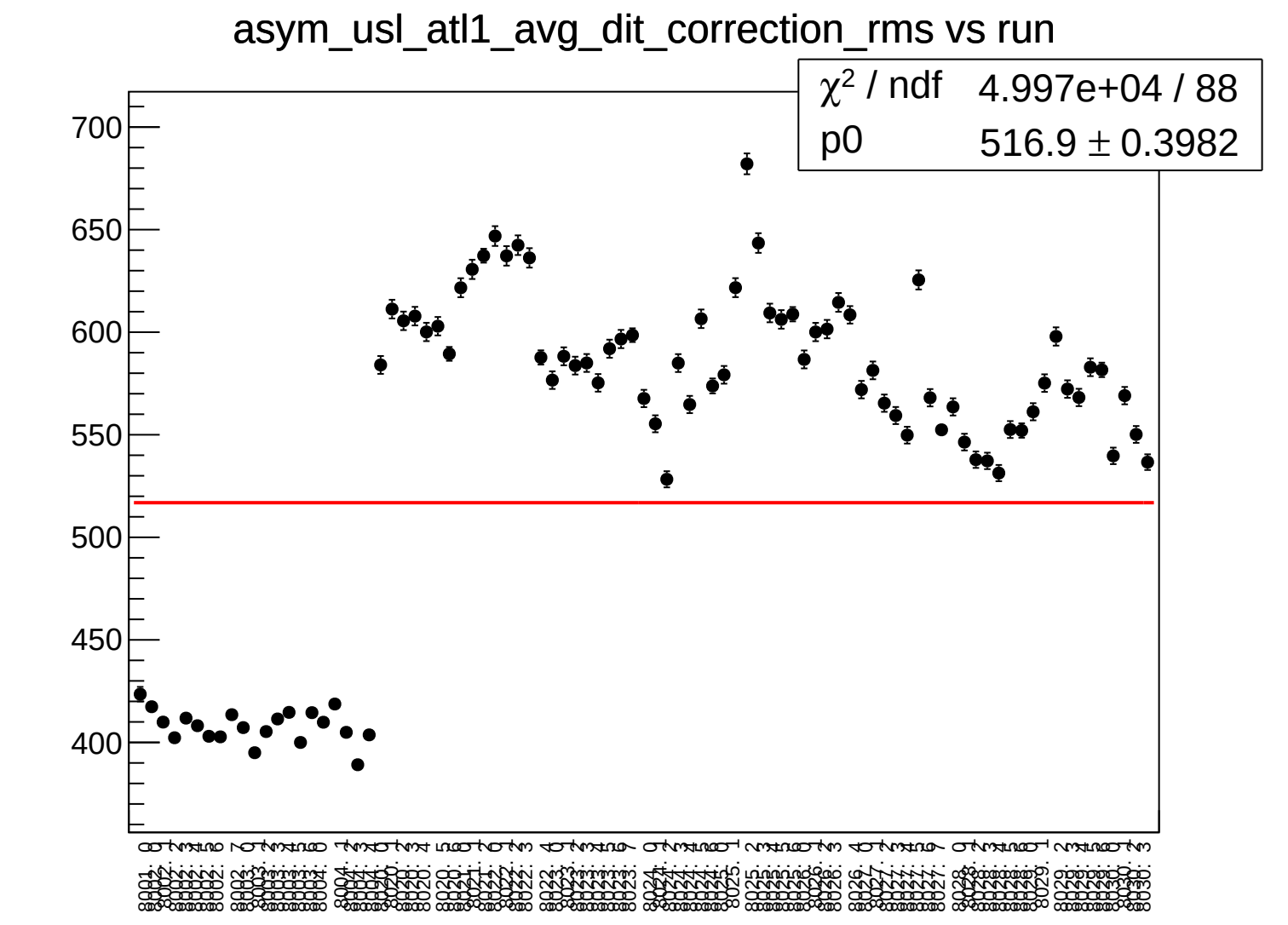

dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 86.96 / 88
p0 −3773 ± 1558
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −154.8
Std Dev 0
2
1
0
−1
−2
−3

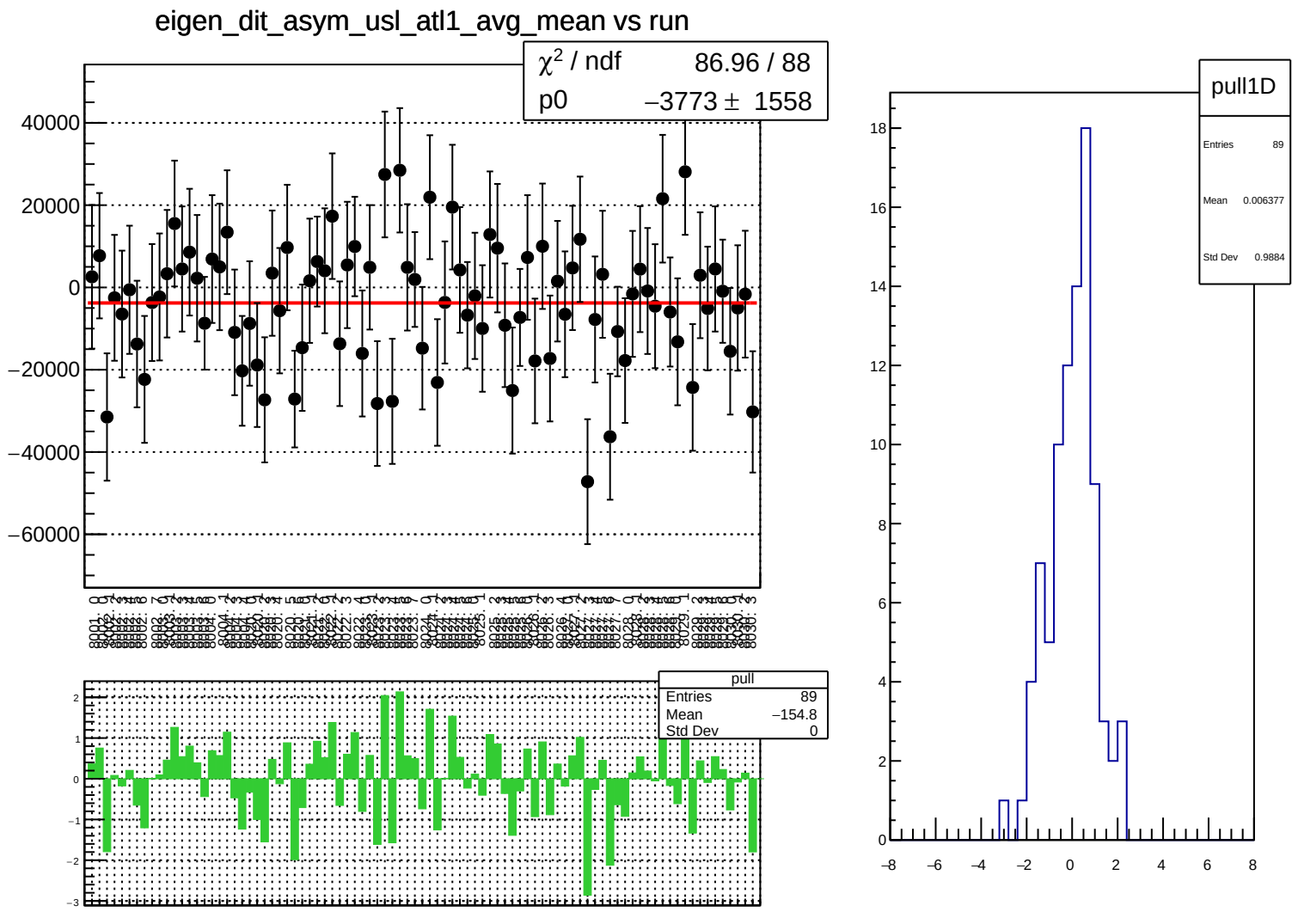

pull1D
Entries 89
Mean 0.006377
Std Dev 0.9884
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

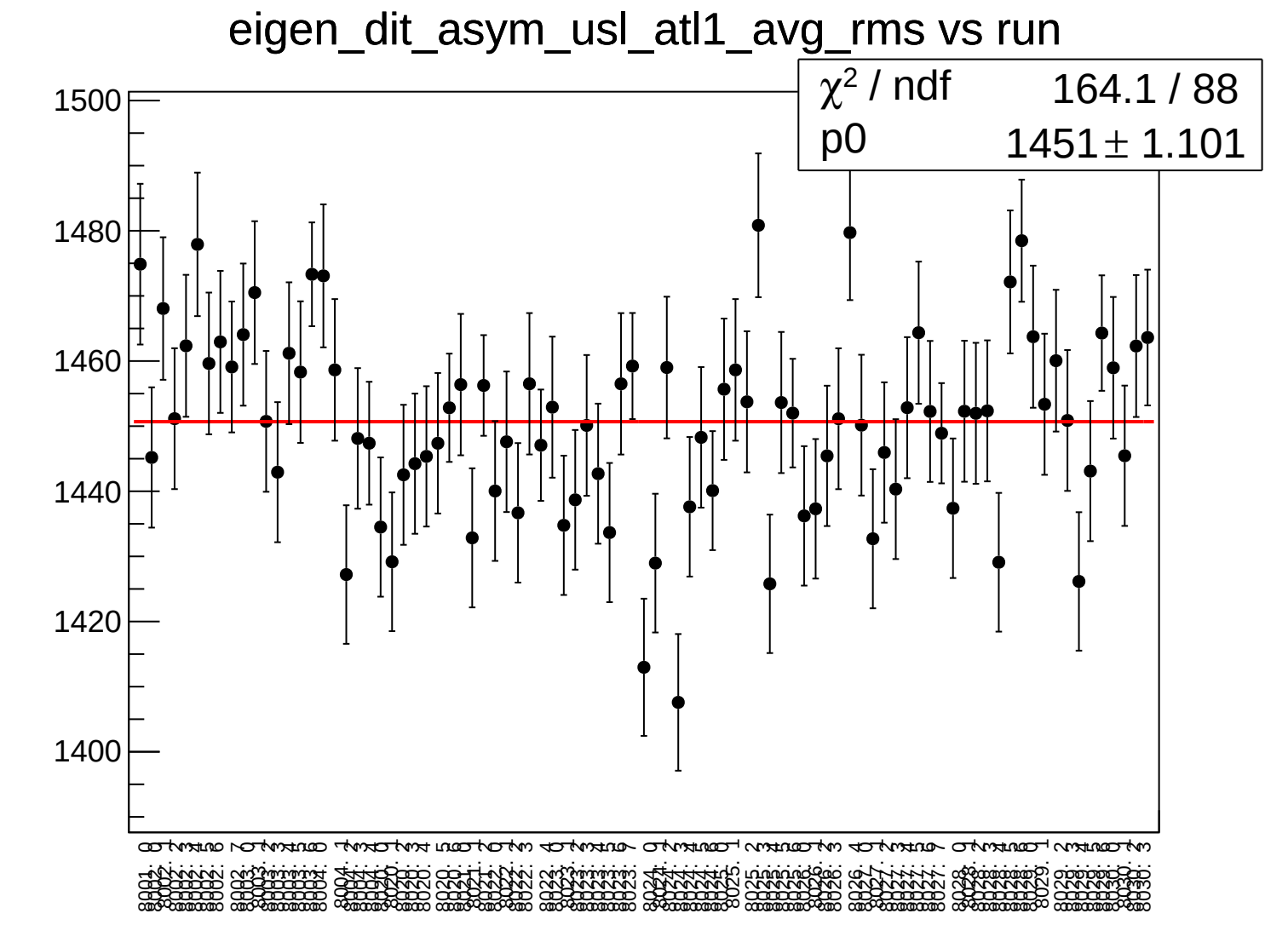

dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 164.1 / 88
p0 1451 ± 1.101
1500
1480
1460
1440
1420
1400

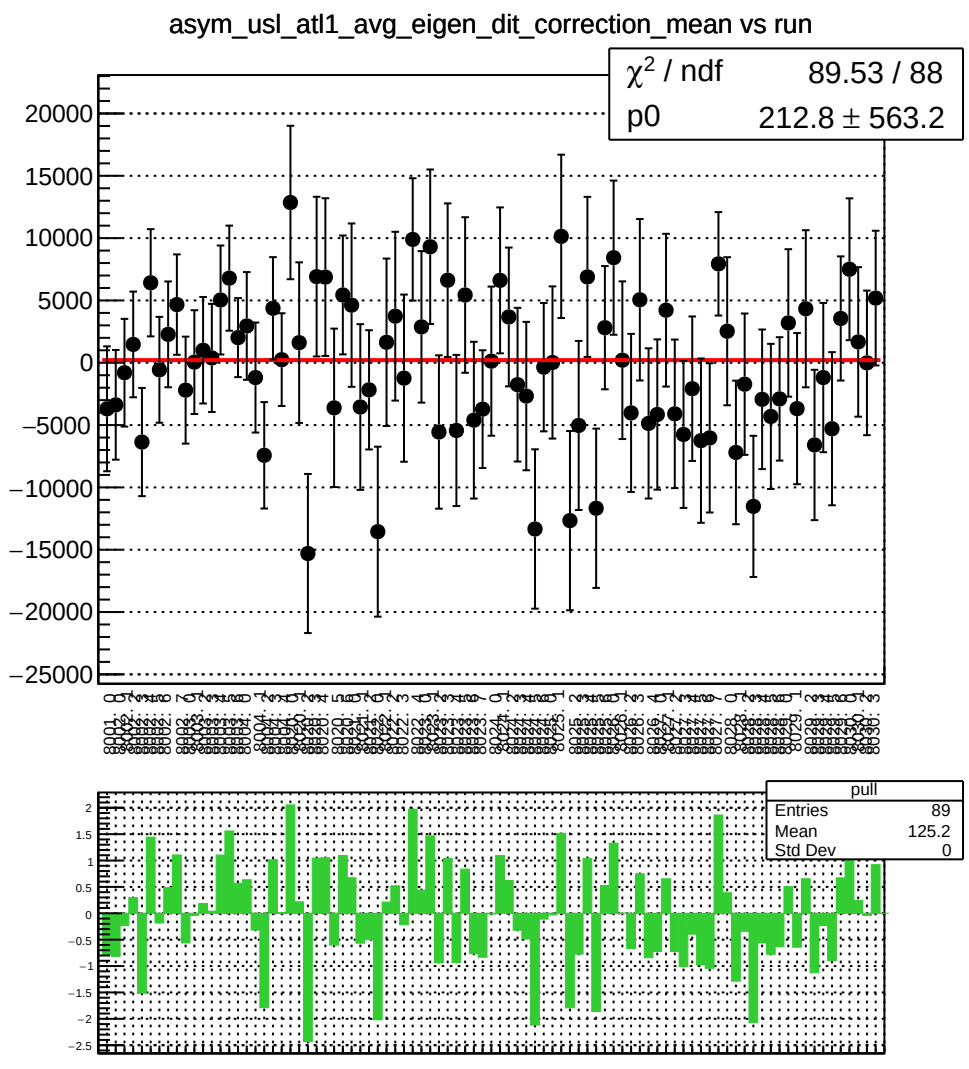

asym_usl_atl1_avg_dit_correction_mean vs run
χ² / ndf 89.53 / 88
p0 212.8 ± 563.2
pull
Entries 89
Mean 125.2
Std Dev 0

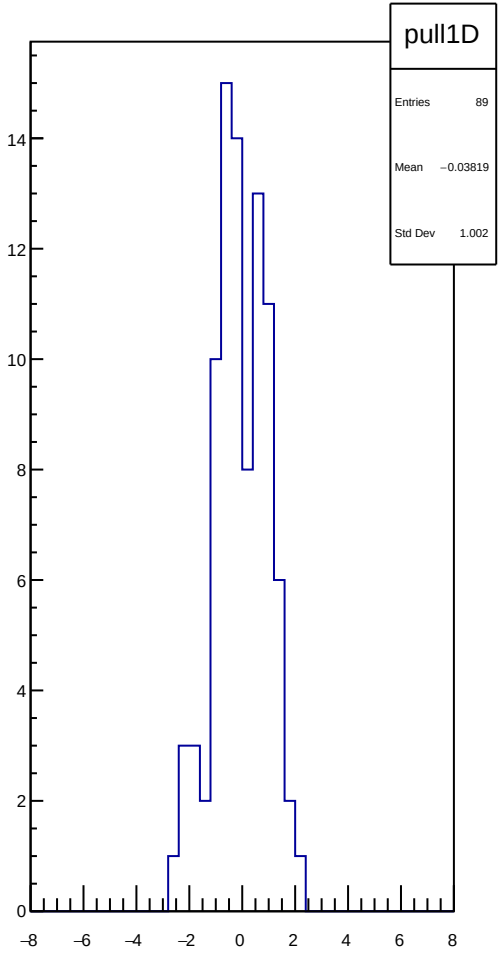

pull1D
Entries 89
Mean −0.03819
Std Dev 1.002

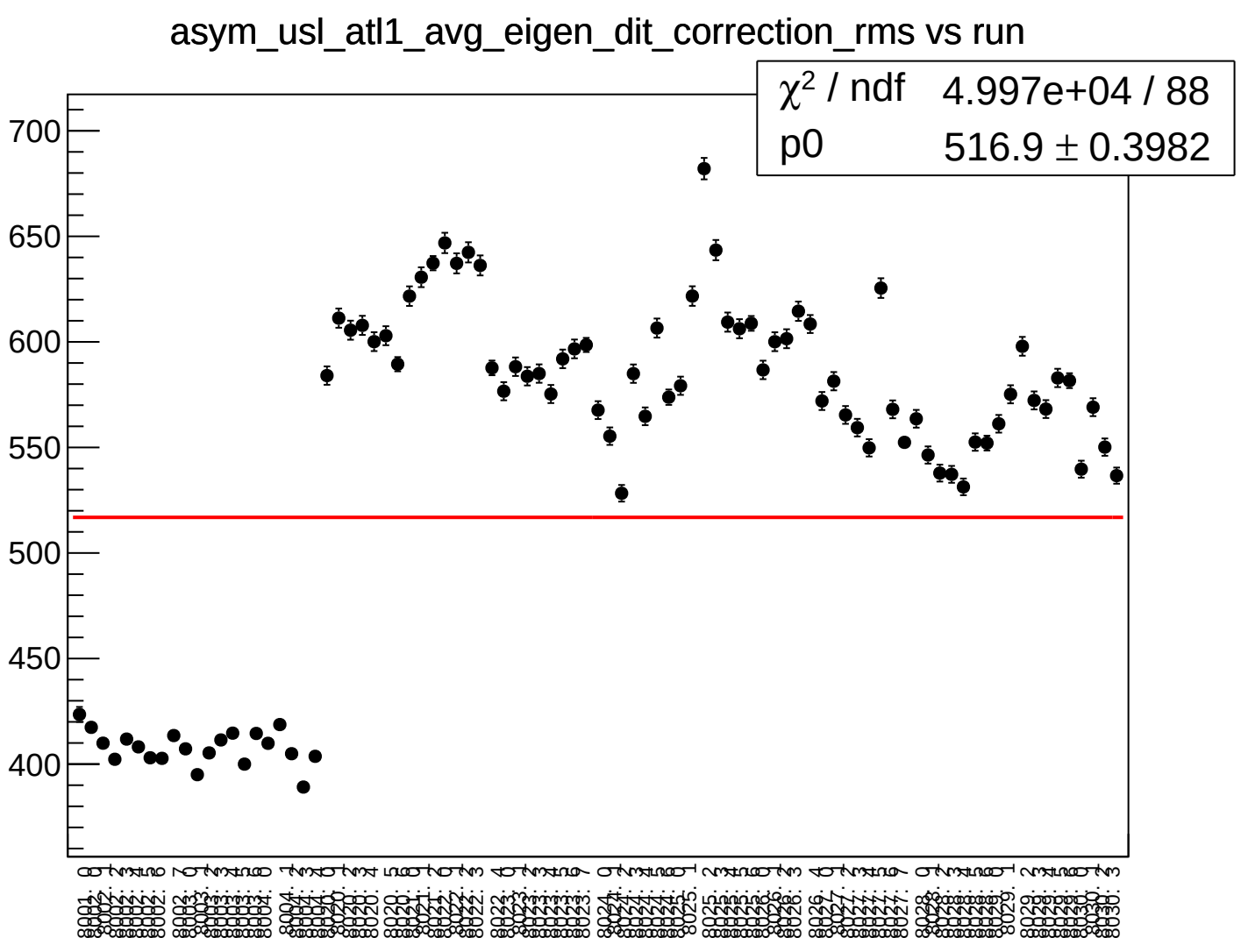

asym_usl_atl1_avg_dit_correction_rms vs run
χ² / ndf 4.997e+04 / 88
p0 516.9 ± 0.3982
700
650
600
550
500
450
400

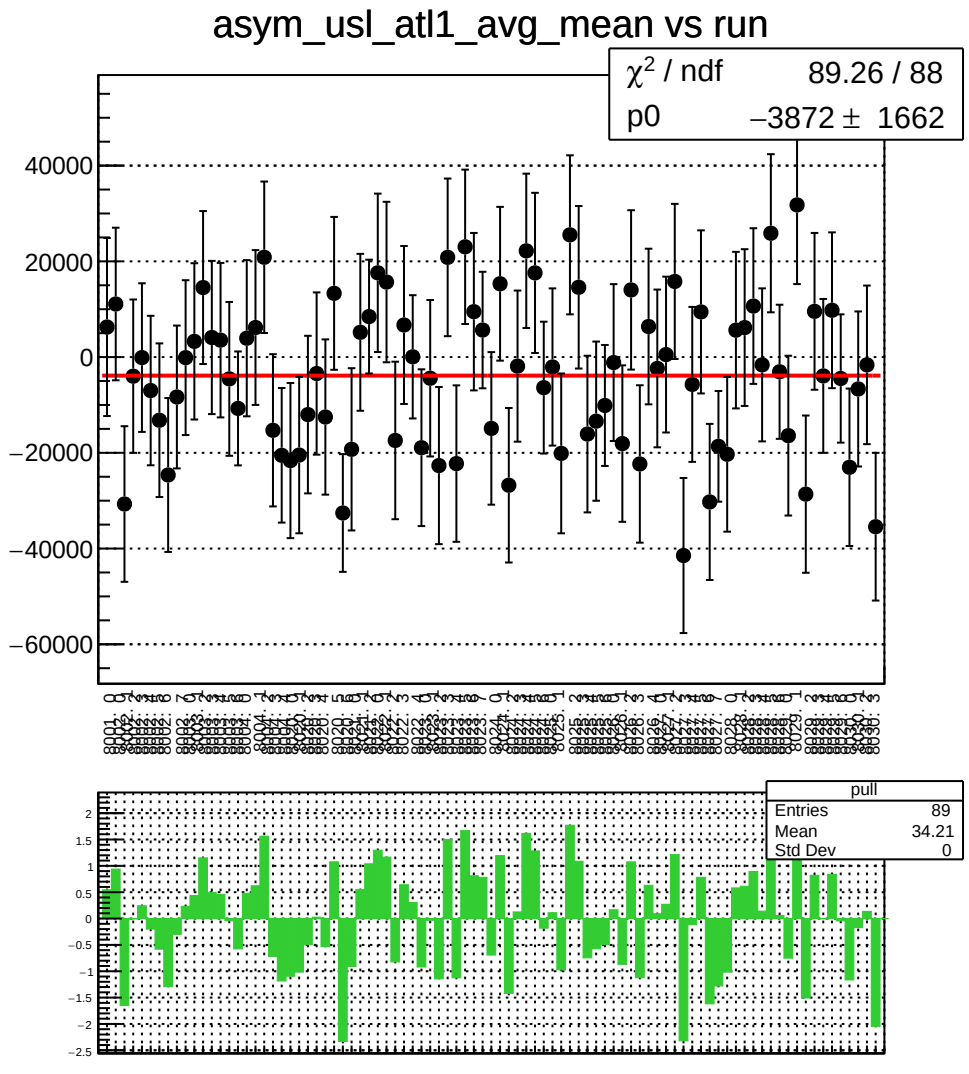

eigen_dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 86.96 / 88
p0 −3773 ± 1558
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −154.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean 0.006377
Std Dev 0.9884
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

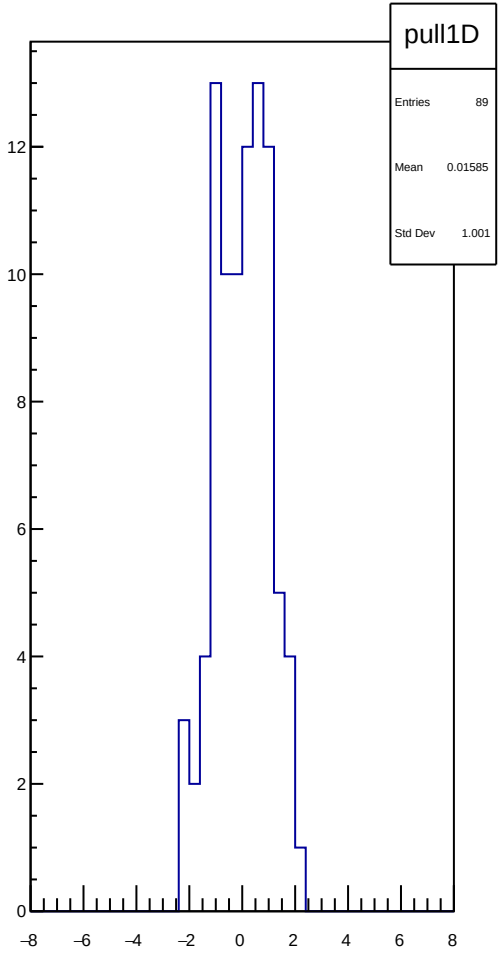

eigen_dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 164.1 / 88
p0 1451 ± 1.101
1500
1480
1460
1440
1420
1400

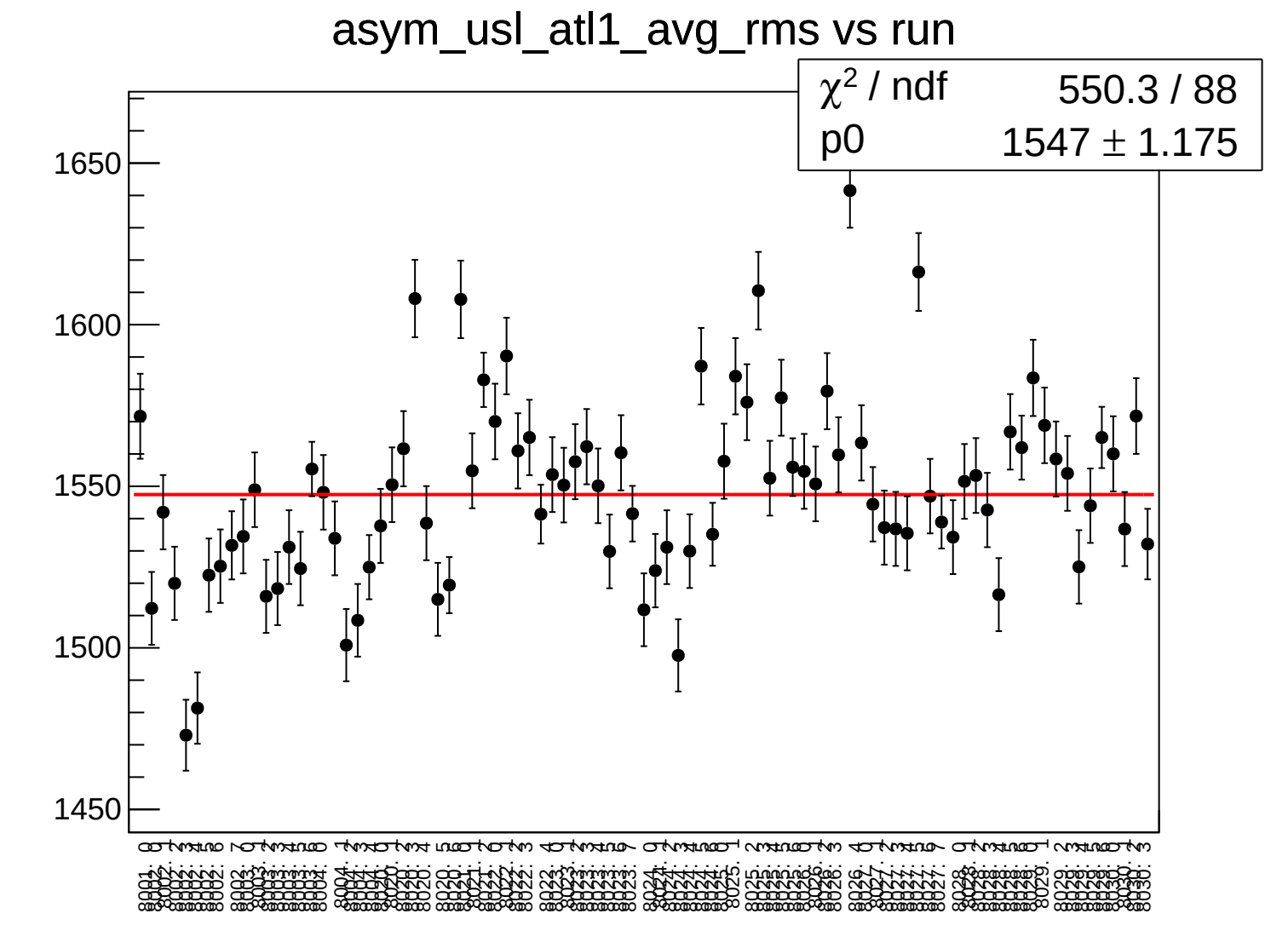

asym_usl_atl1_avg_eigen_dit_correction_mean vs run
χ² / ndf 89.53 / 88
p0 212.8 ± 563.2
pull
Entries 89
Mean 125.2
Std Dev 0

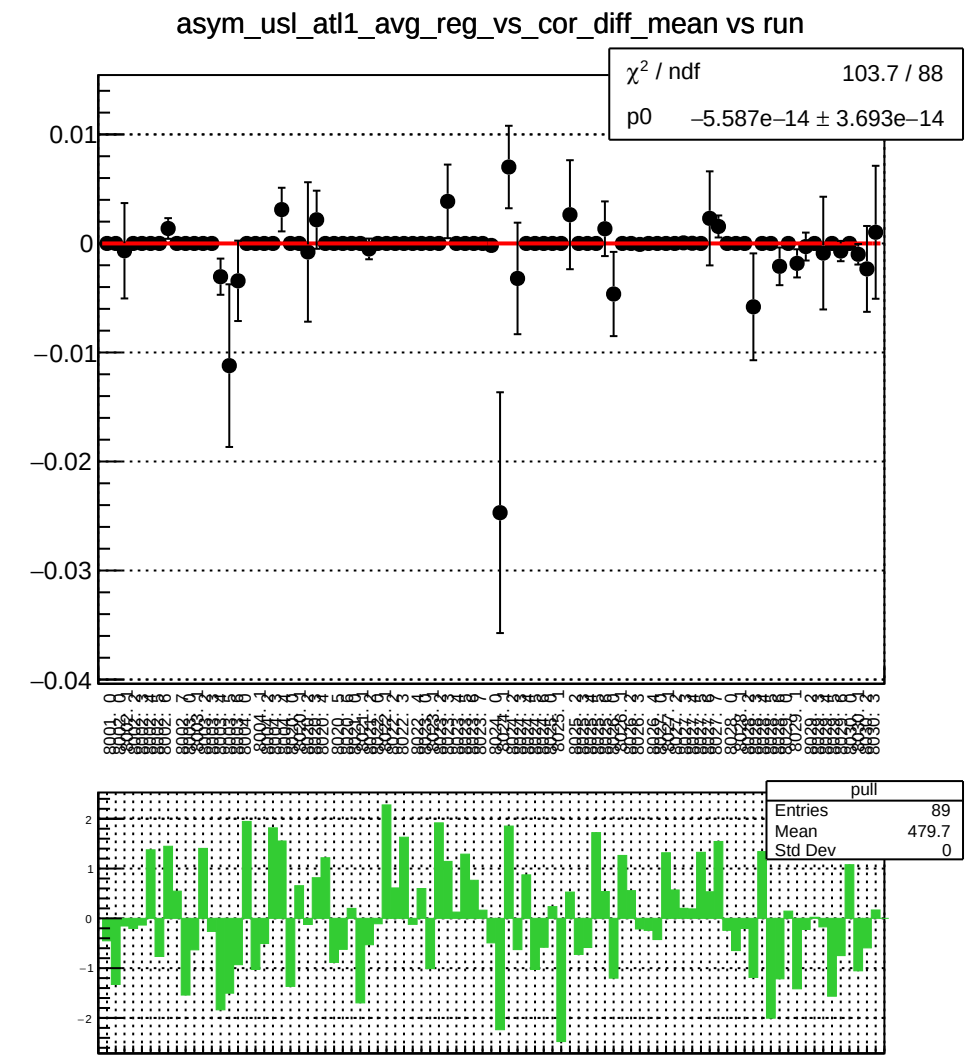

pull1D
Entries 89
Mean −0.03819
Std Dev 1.002

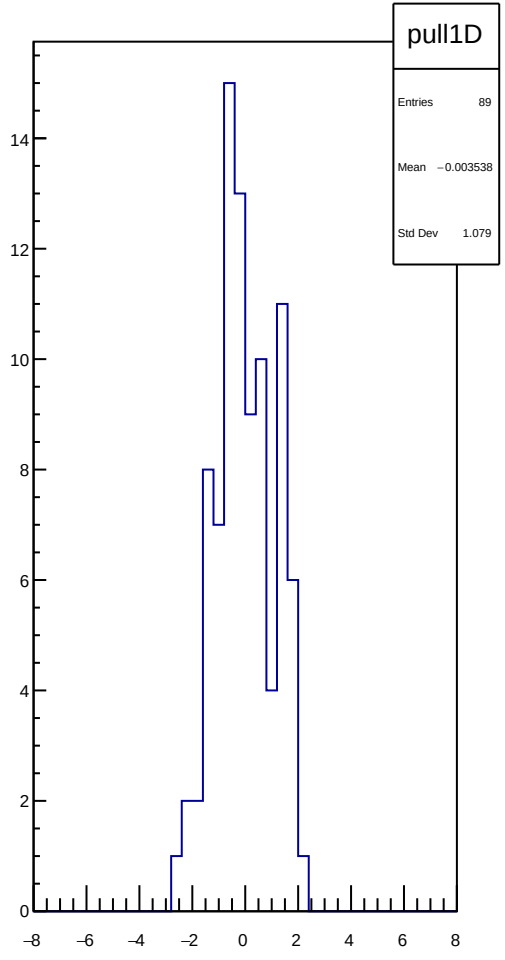

asym_usl_atl1_avg_eigen_dit_correction_rms vs run
χ² / ndf 4.997e+04 / 88
p0 516.9 ± 0.3982
700
650
600
550
500
450
400

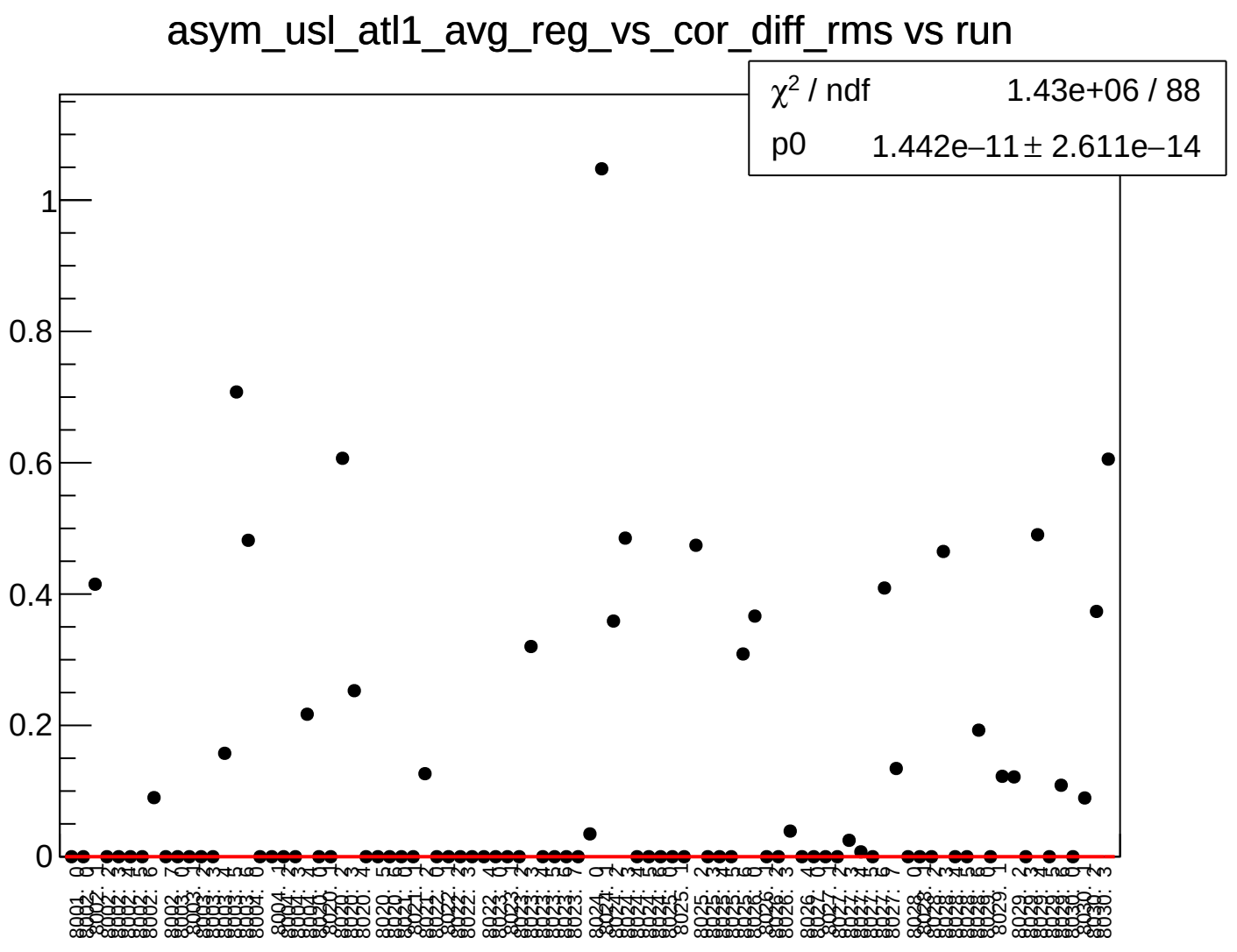

asym_usl_atl1_avg_mean vs run
χ² / ndf 89.26 / 88
p0 −3872 ± 1662
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 34.21
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

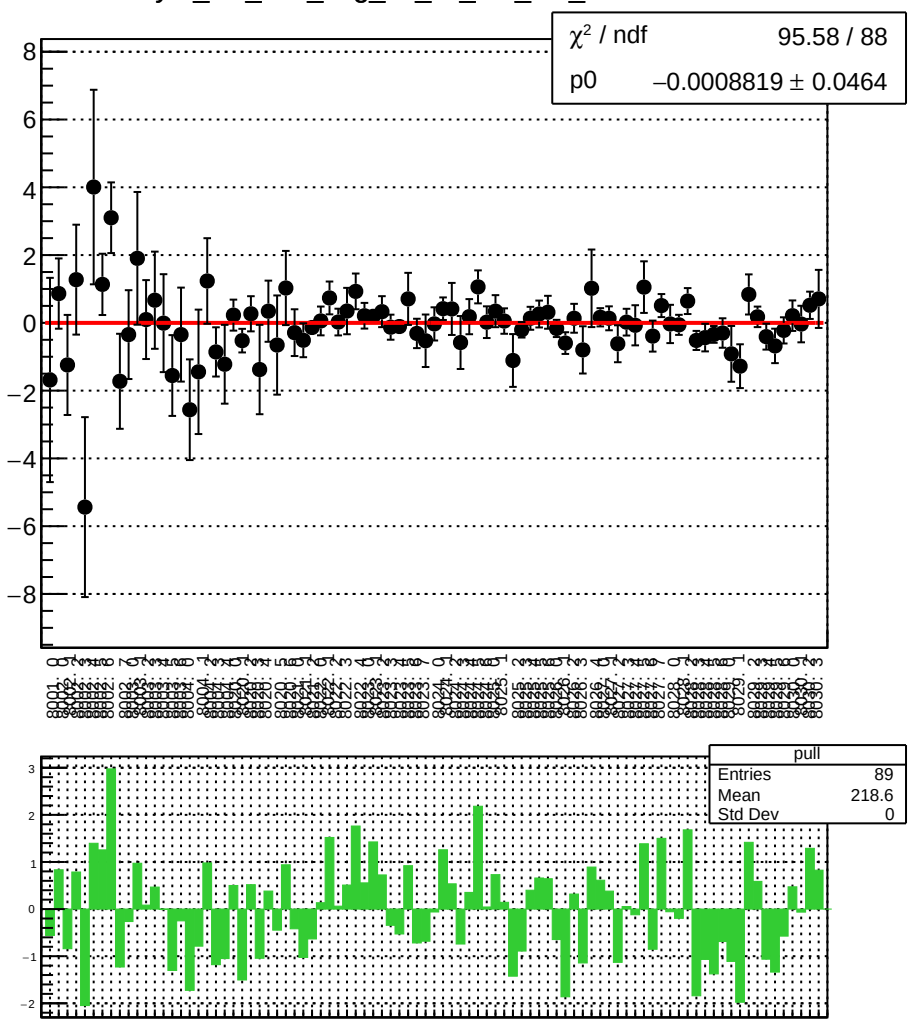

pull1D
Entries 89
Mean 0.01585
Std Dev 1.001
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

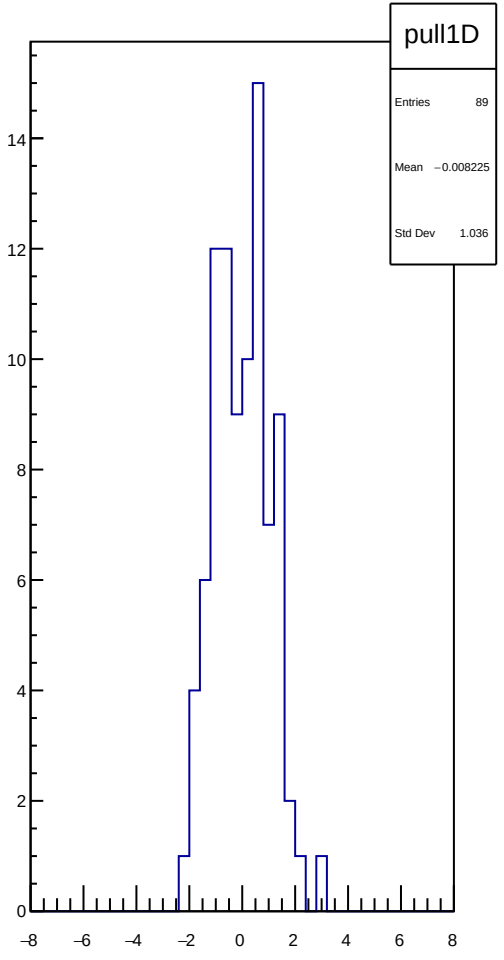

asym_usl_atl1_avg_rms vs run
χ² / ndf 550.3 / 88
p0 1547 ± 1.175
1650
1600
1550
1500
1450

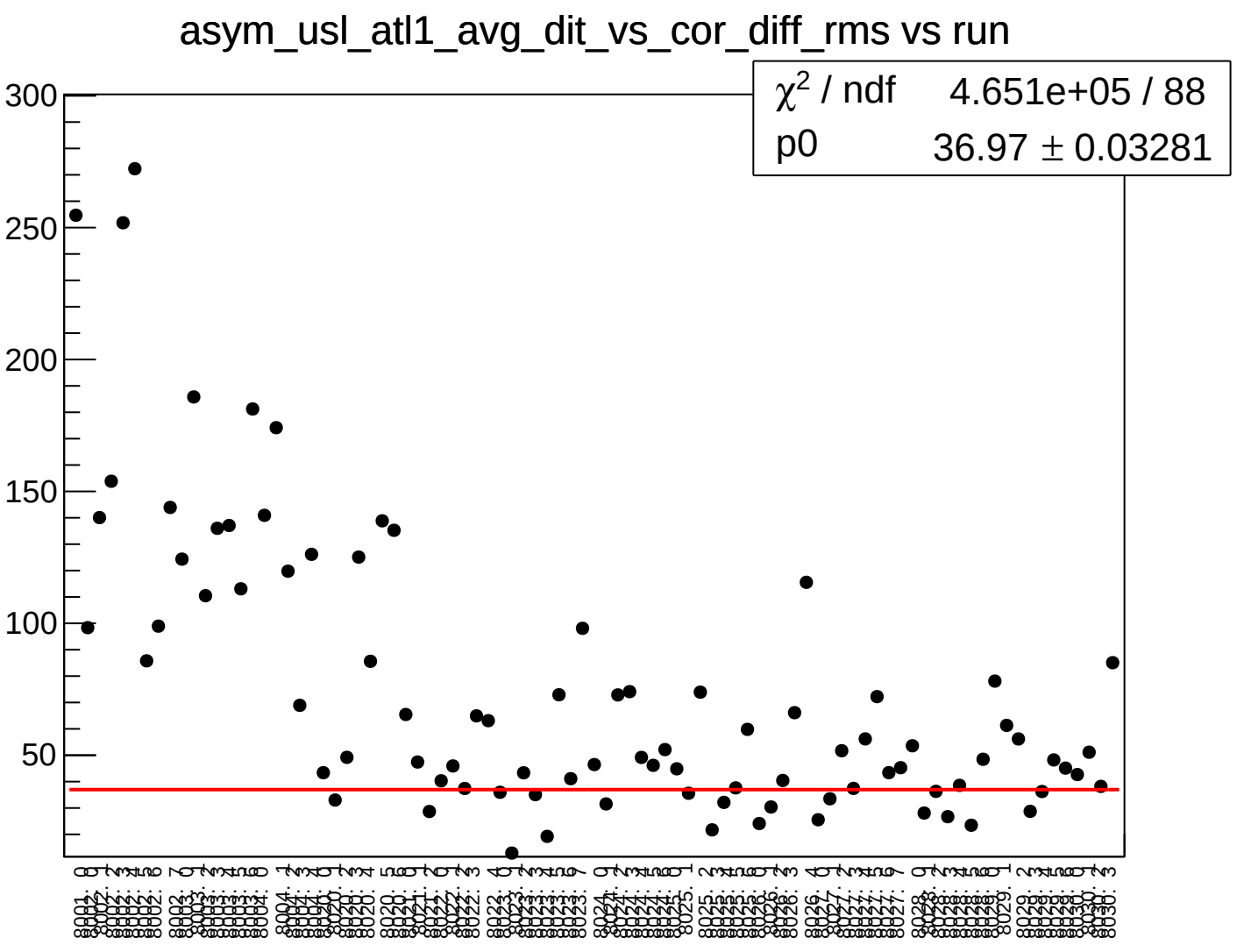

asym_usl_atl1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 103.7 / 88
p0 −5.587e−14 ± 3.693e−14
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 89
Mean 479.7
Std Dev 0
2
1
0
−1
−2

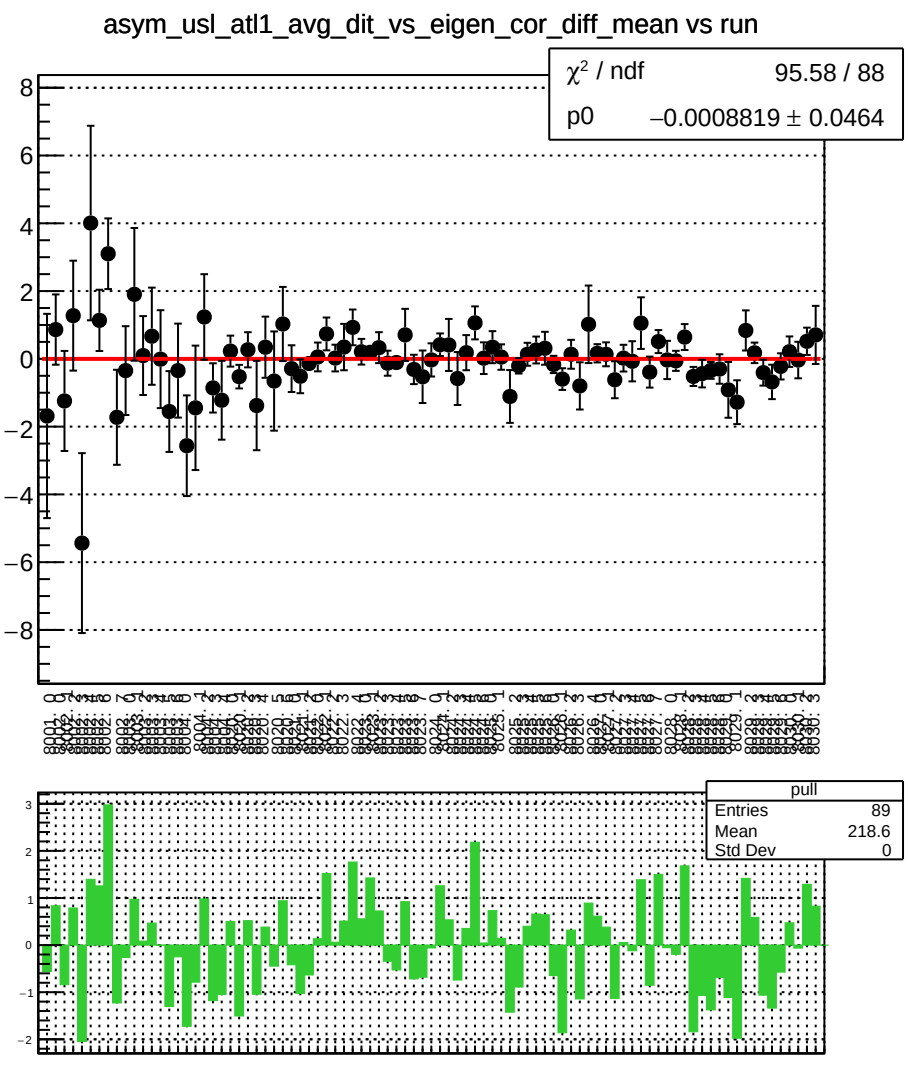

pull1D
Entries 89
Mean −0.003538
Std Dev 1.079
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

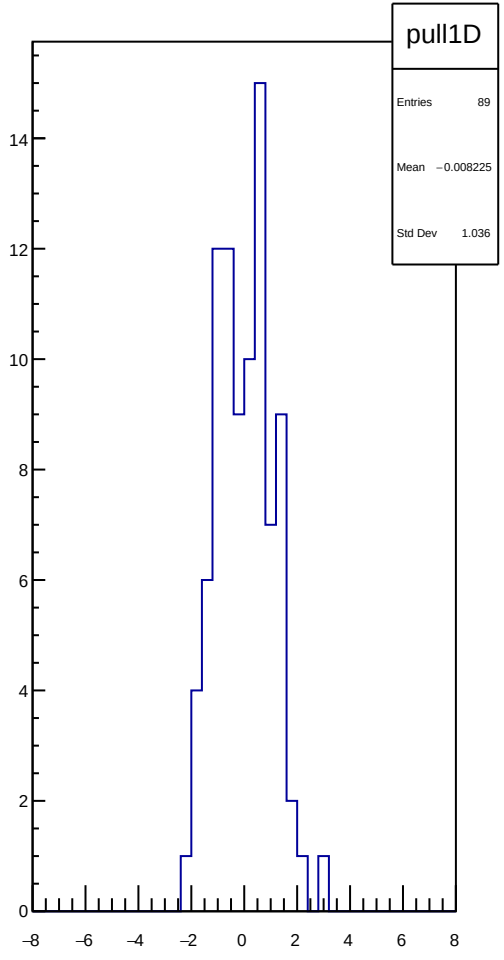

asym_usl_atl1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.43e+06 / 88
p0 1.442e−11 ± 2.611e−14
1
0.8
0.6
0.4
0.2
0

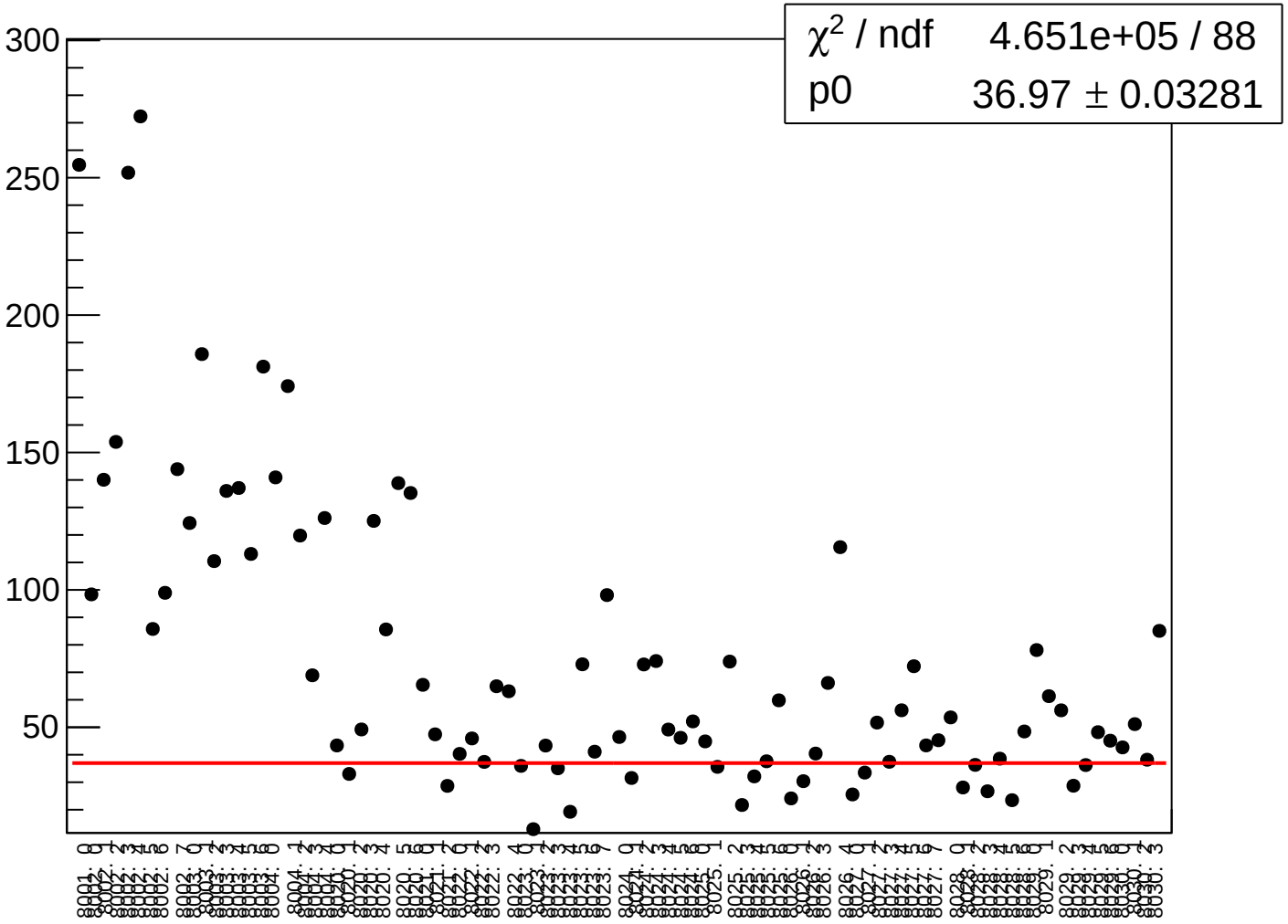

asym_usl_atl1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 95.58 / 88
p0 −0.0008819 ± 0.0464
pull
Entries 89
Mean 218.6
Std Dev 0

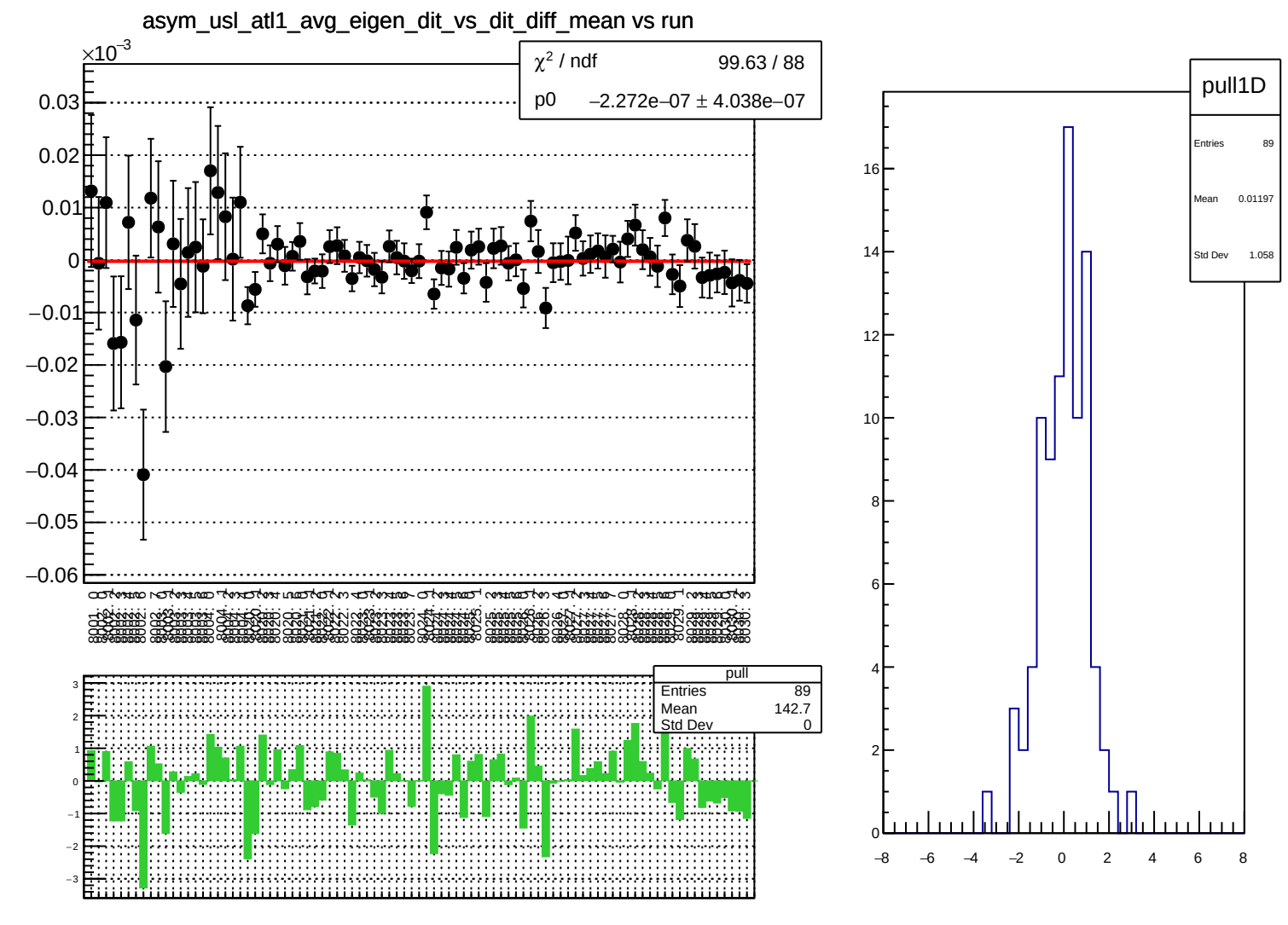

pull1D
Entries 89
Mean −0.008225
Std Dev 1.036

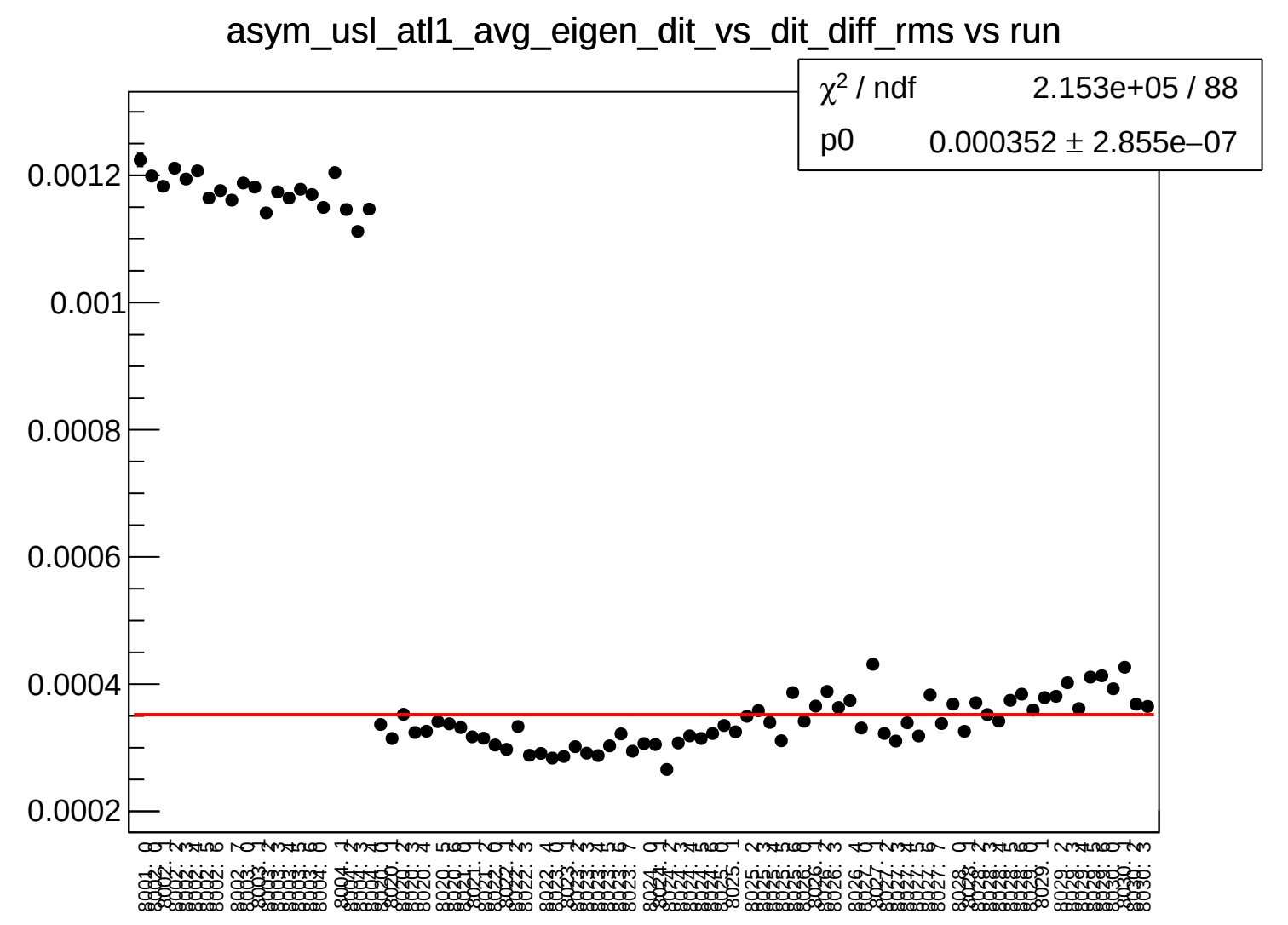

asym_usl_atl1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.651e+05 / 88
p0 36.97 ± 0.03281
300
250
200
150
100
50

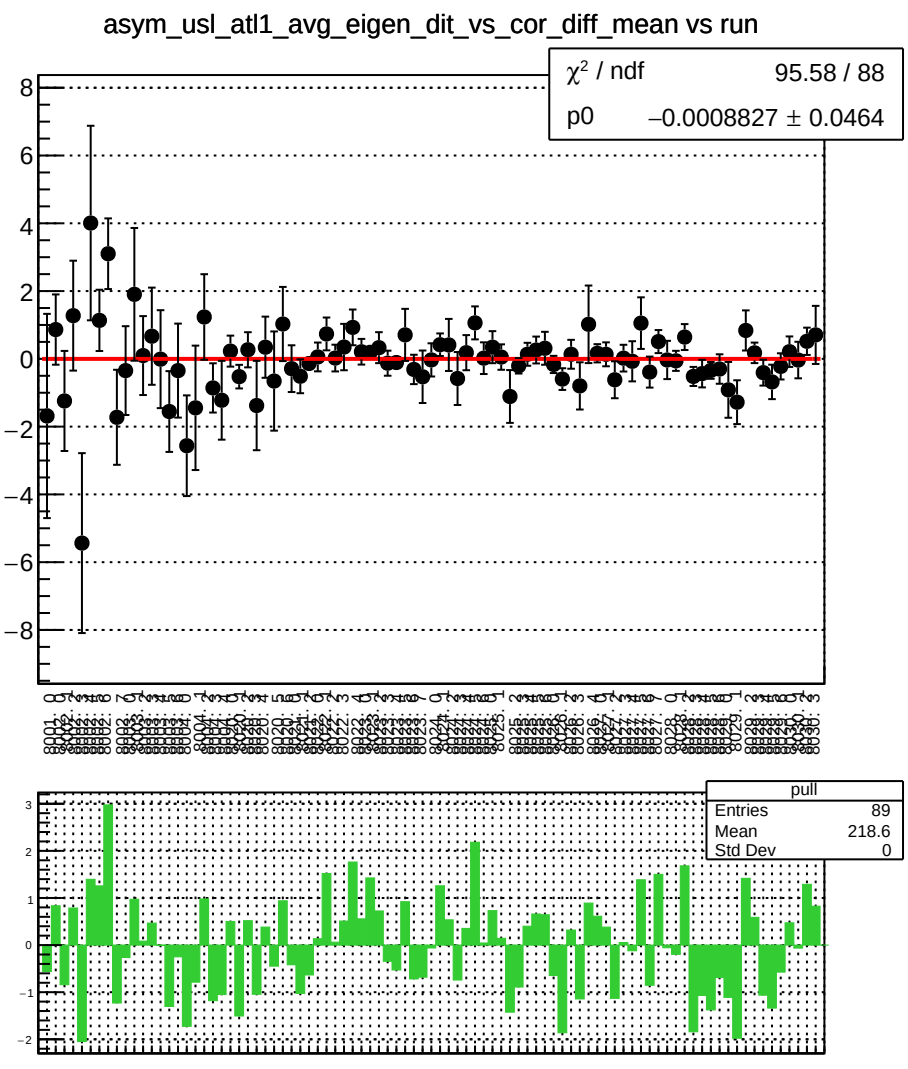

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.58 / 88
p0 −0.0008819 ± 0.0464
pull
Entries 89
Mean 218.6
Std Dev 0

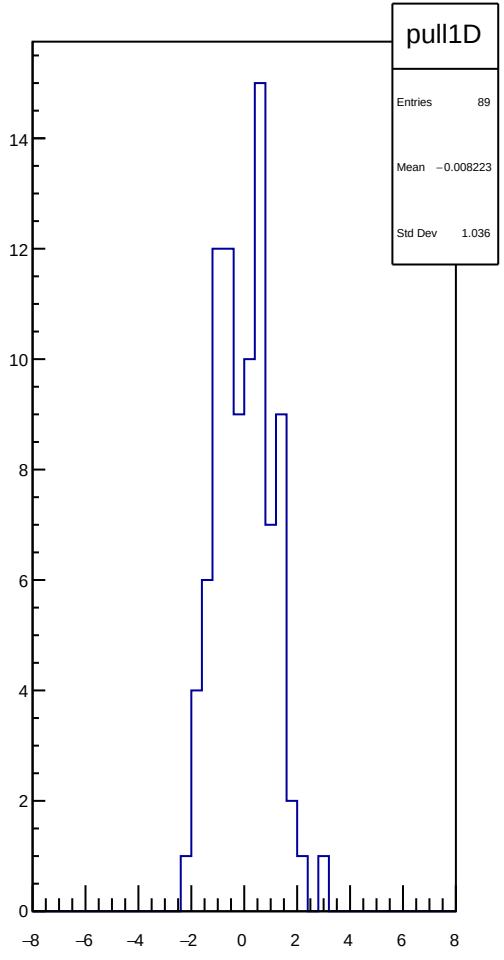

pull1D
Entries 89
Mean −0.008225
Std Dev 1.036

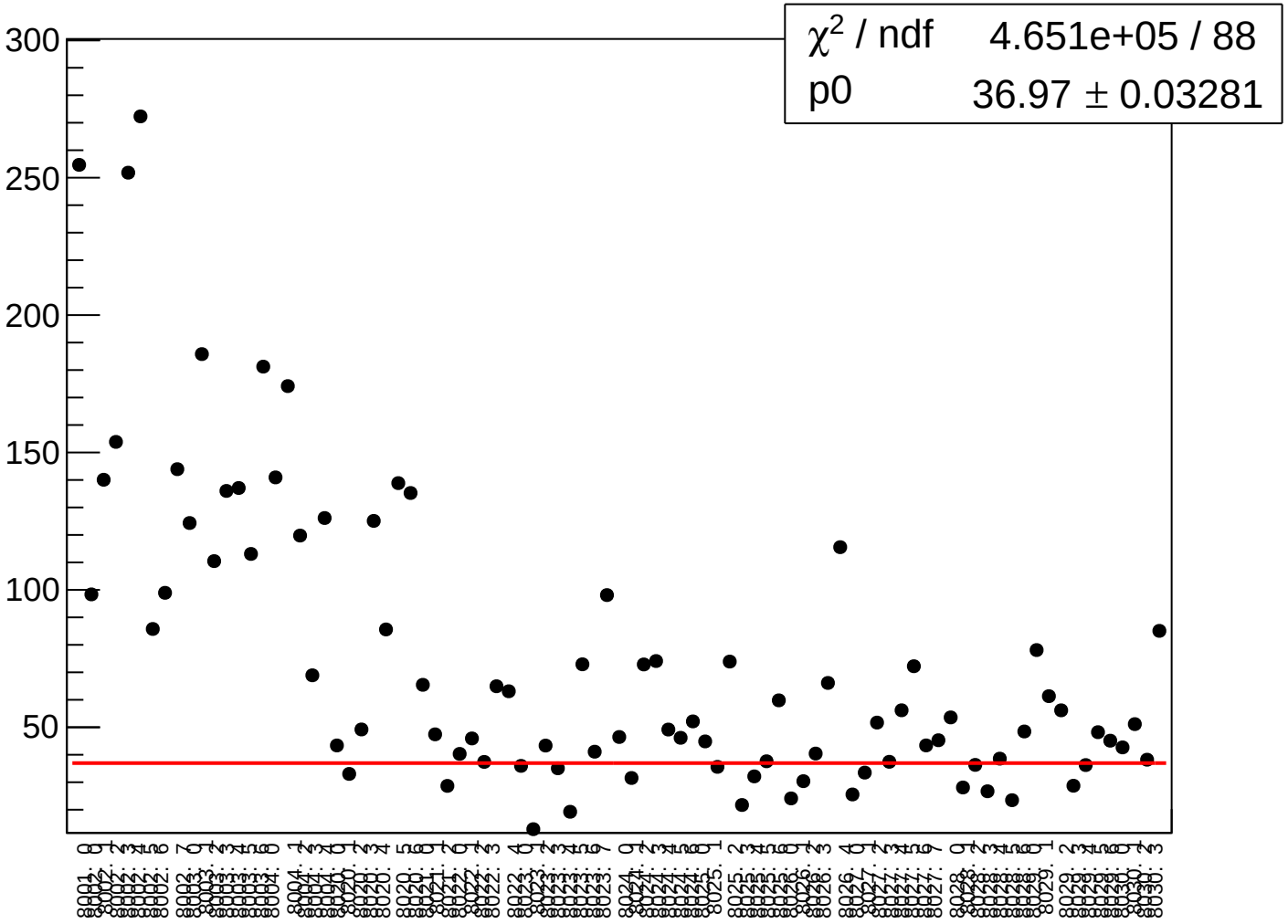

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.651e+05 / 88
p0 36.97 ± 0.03281
300
250
200
150
100
50

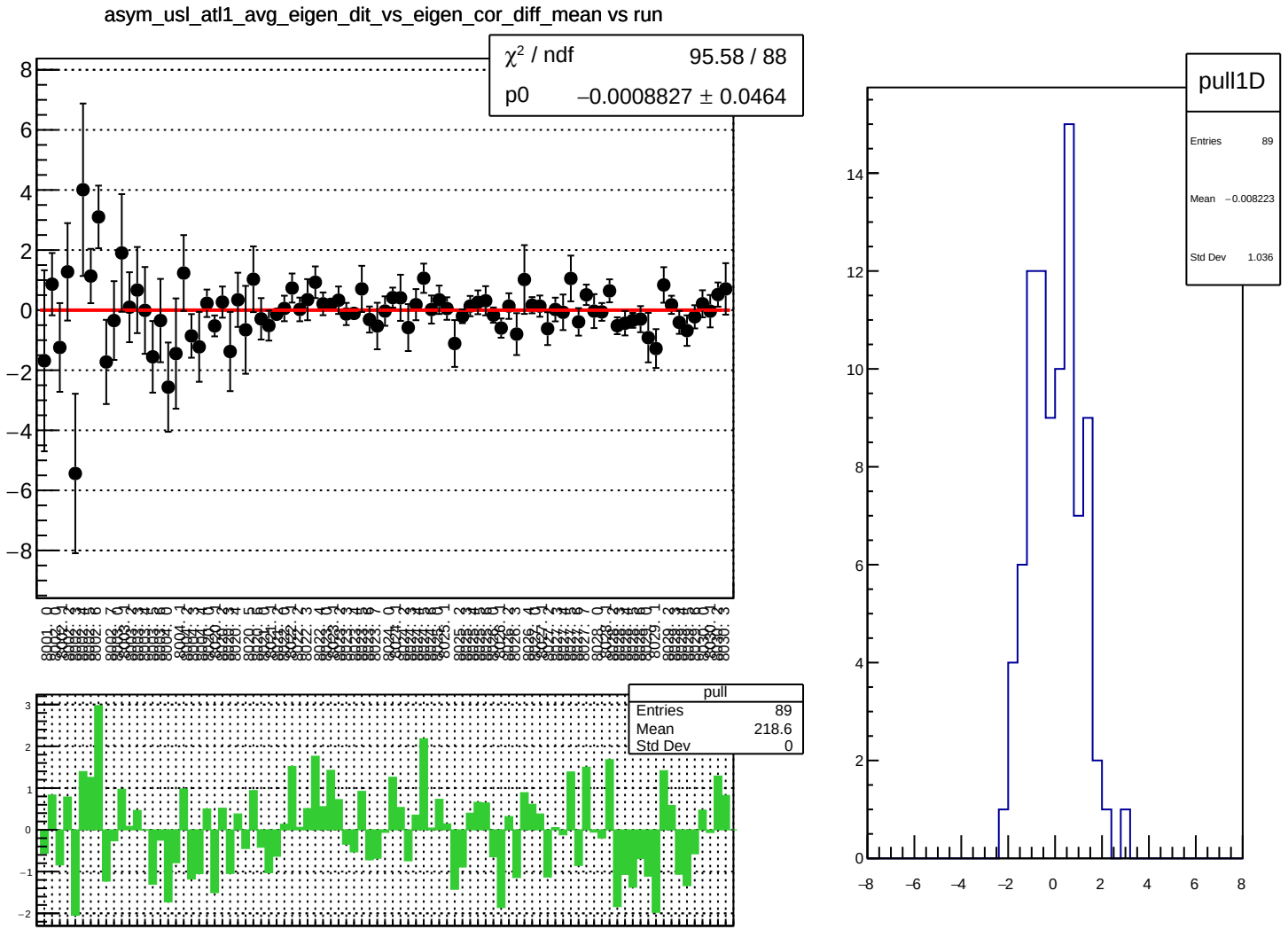

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.63 / 88
p0 −2.272e−07 ± 4.038e−07
pull
Entries 89
Mean 142.7
Std Dev 0
pull1D
Entries 89
Mean 0.01197
Std Dev 1.058

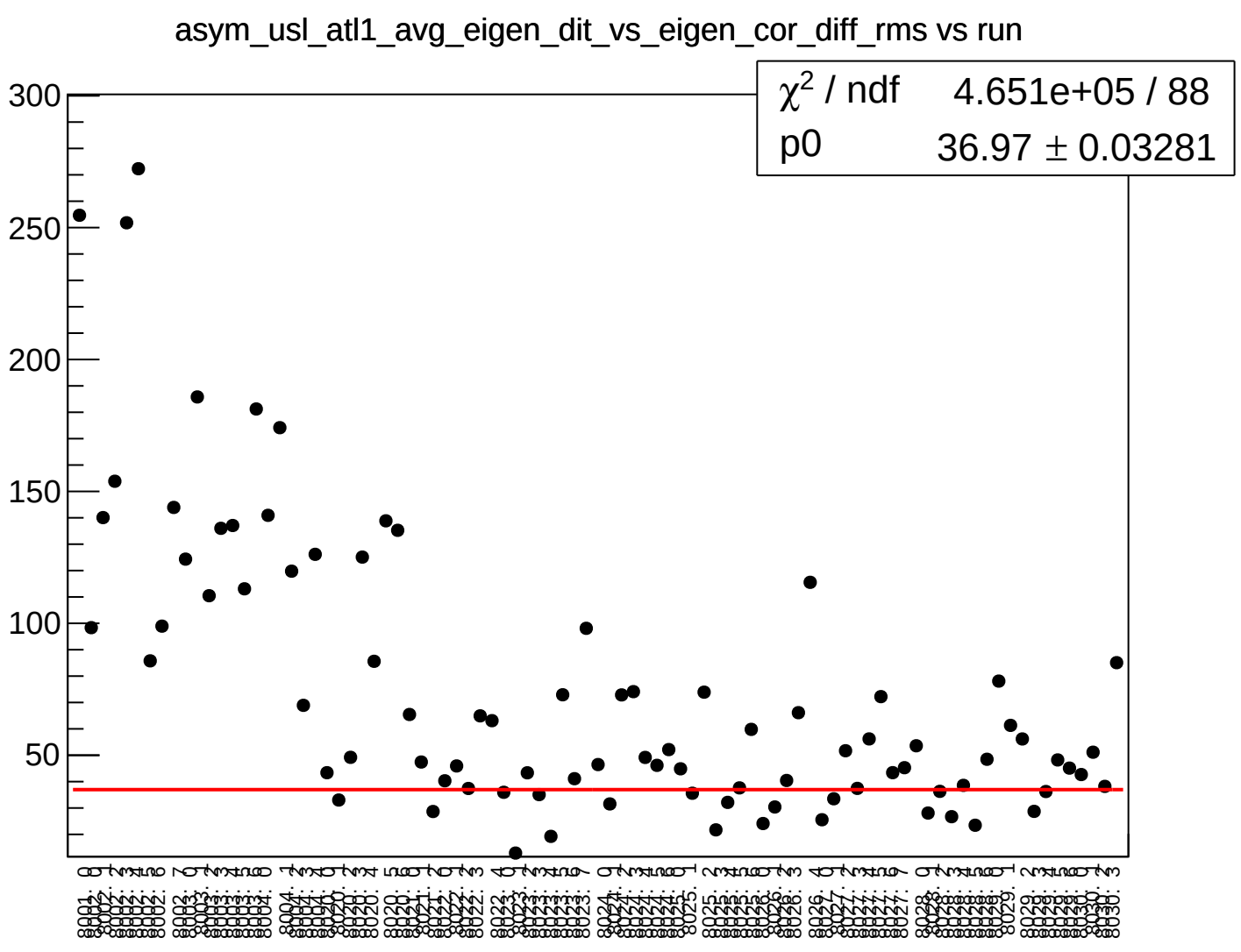

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.153e+05 / 88
p0 0.000352 ± 2.855e−07
0.0012
0.001
0.0008
0.0006
0.0004
0.0002

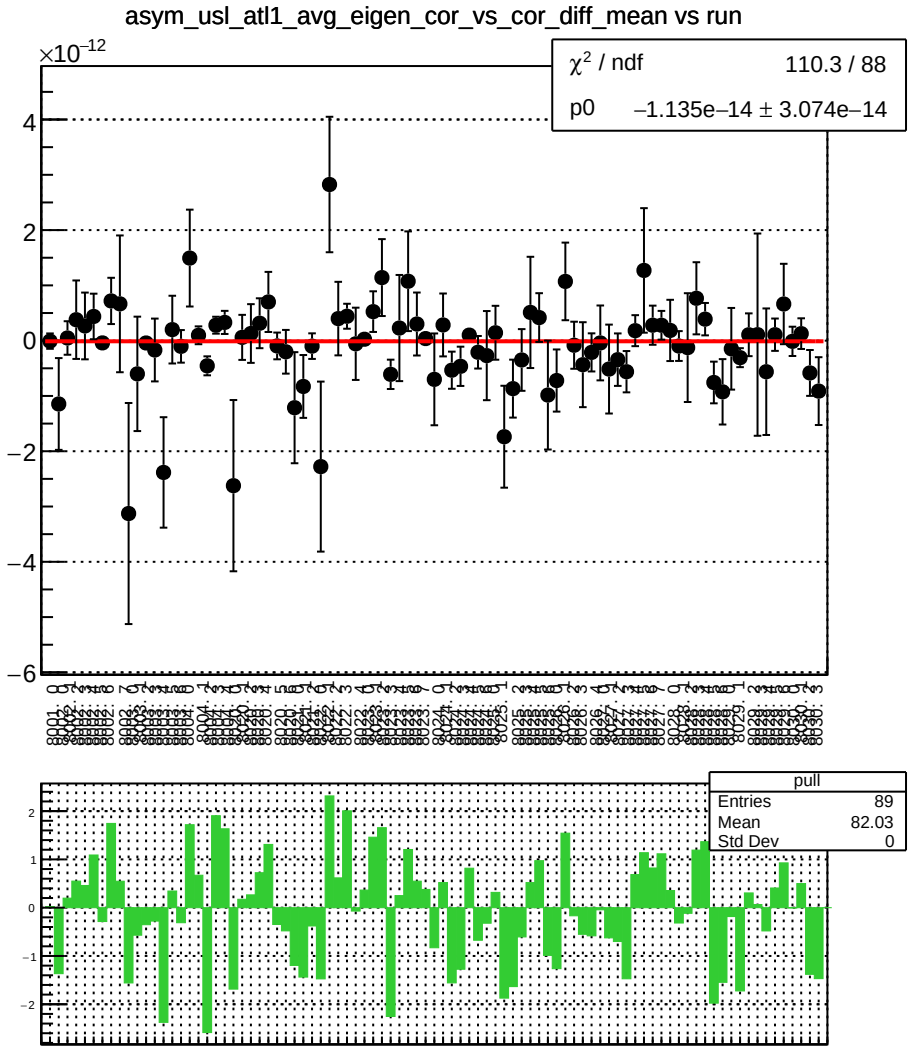

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.58 / 88
p0 −0.0008827 ± 0.0464
pull
Entries 89
Mean 218.6
Std Dev 0

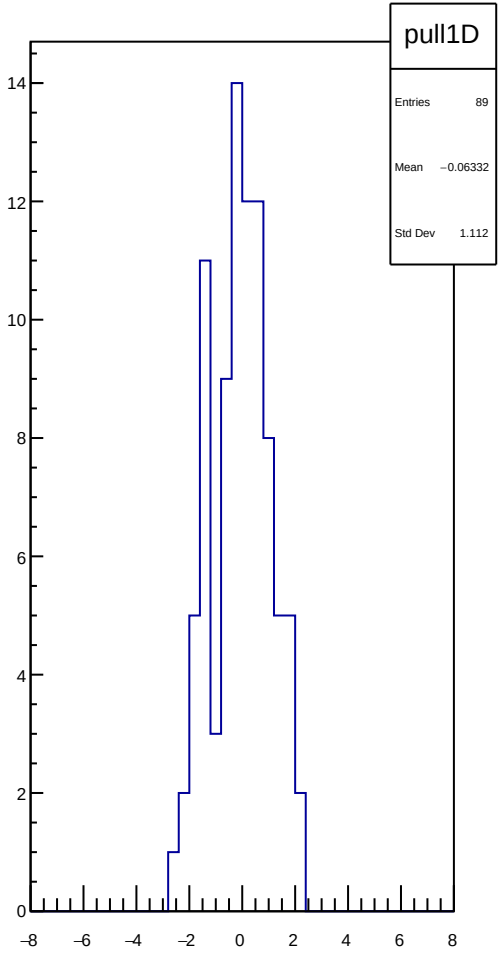

pull1D
Entries 89
Mean −0.008223
Std Dev 1.036

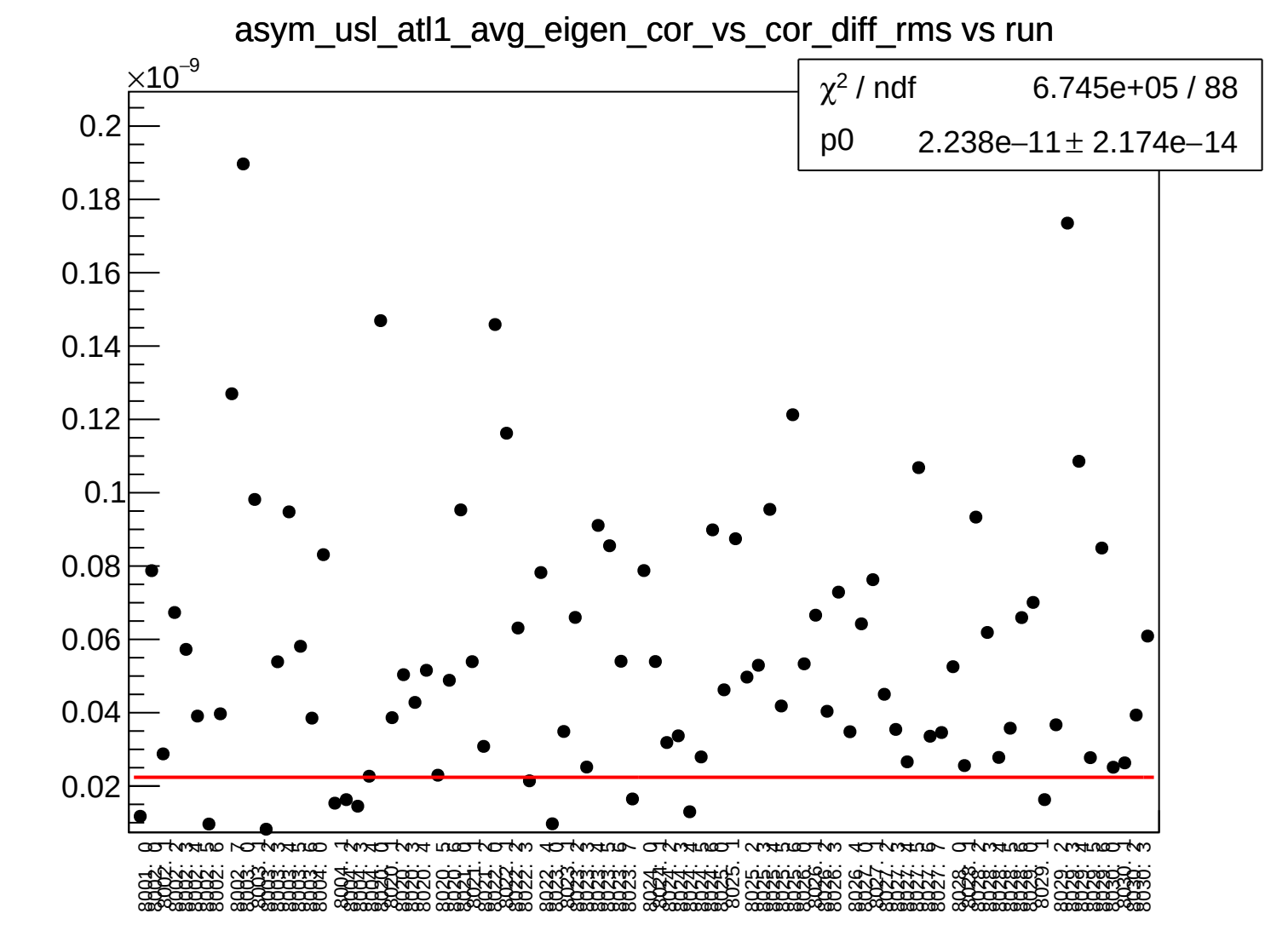

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.651e+05 / 88
p0 36.97 ± 0.03281
300
250
200
150
100
50

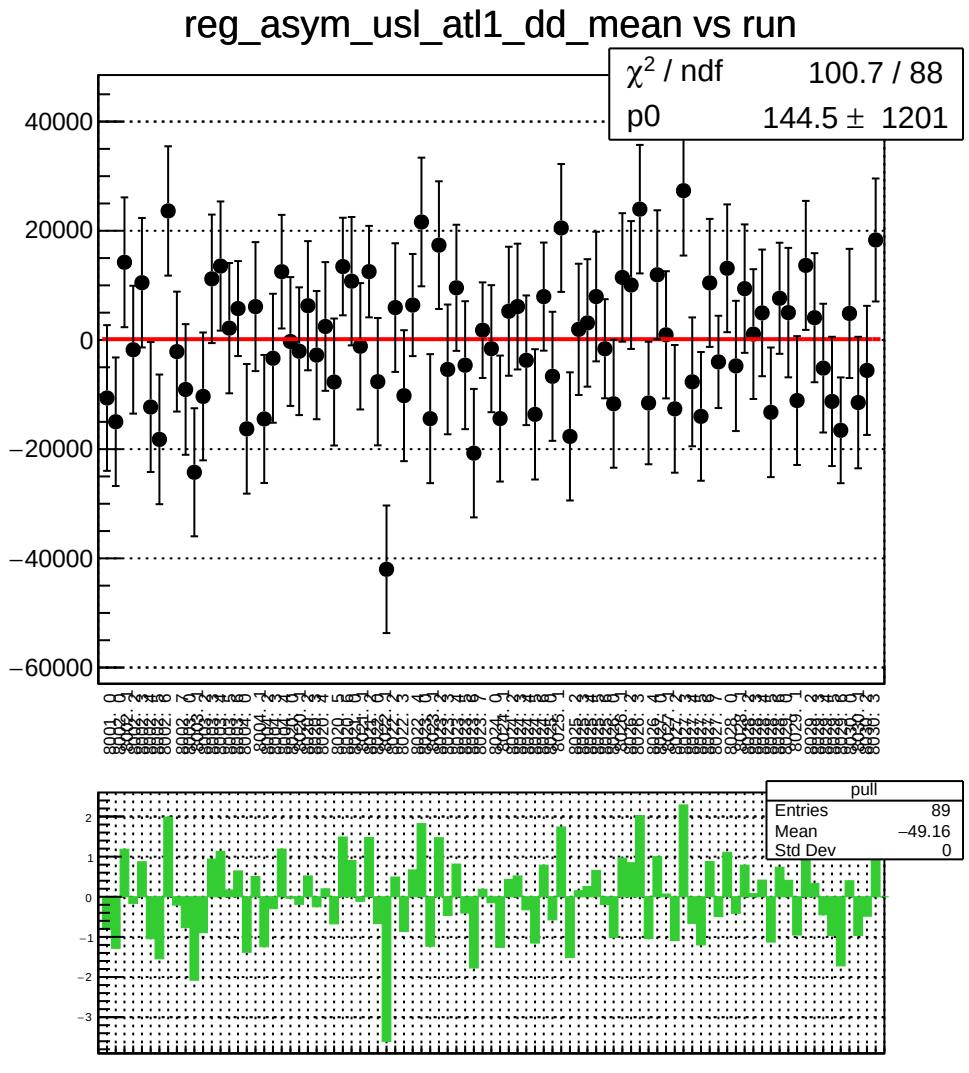

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.58 / 88
p0 −0.0008827 ± 0.0464
pull
Entries 89
Mean 218.6
Std Dev 0
pull1D
Entries 89
Mean −0.008223
Std Dev 1.036

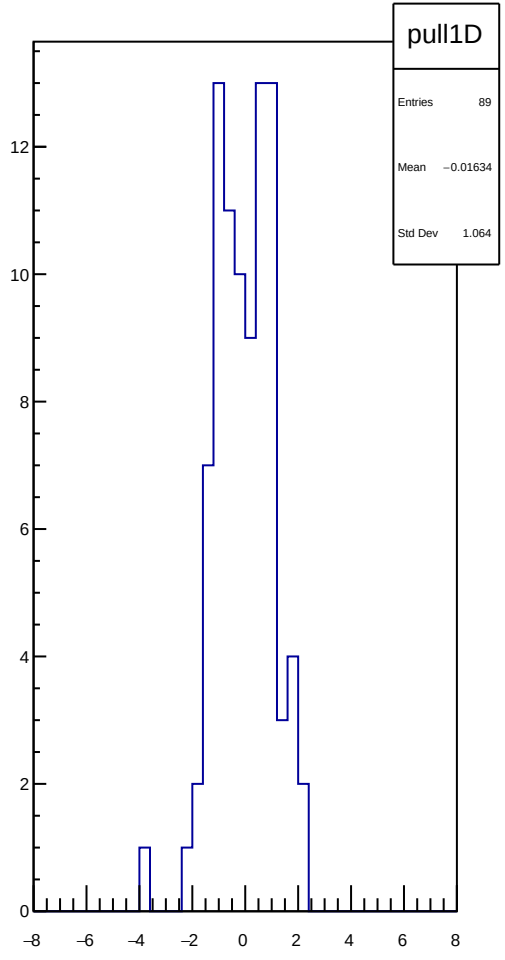

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ2 / ndf 4.651e+05 / 88
p0 36.97 ± 0.03281
300
250
200
150
100
50

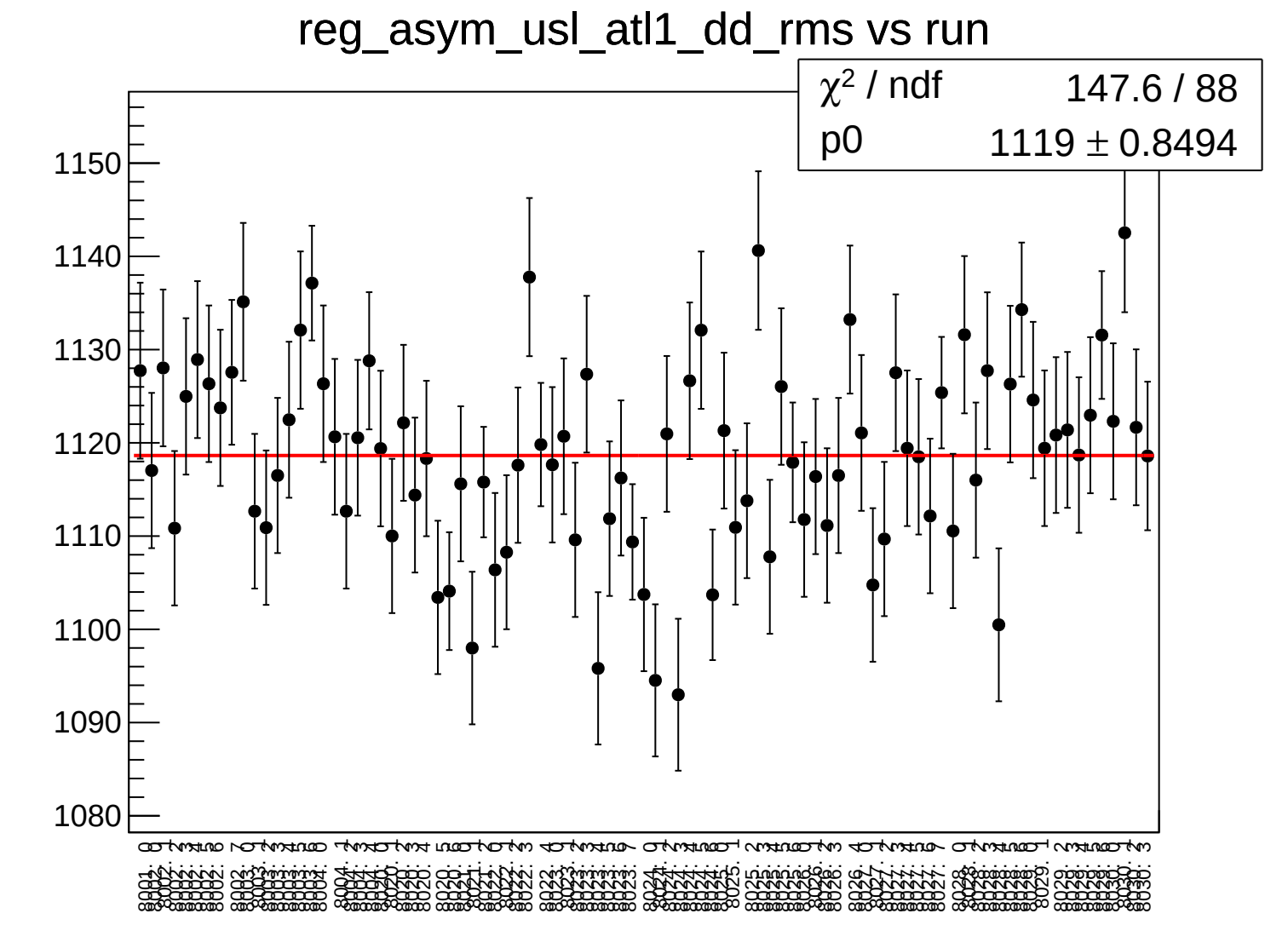

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 110.3 / 88
p0 −1.135e−14 ± 3.074e−14
pull
Entries 89
Mean 82.03
Std Dev 0

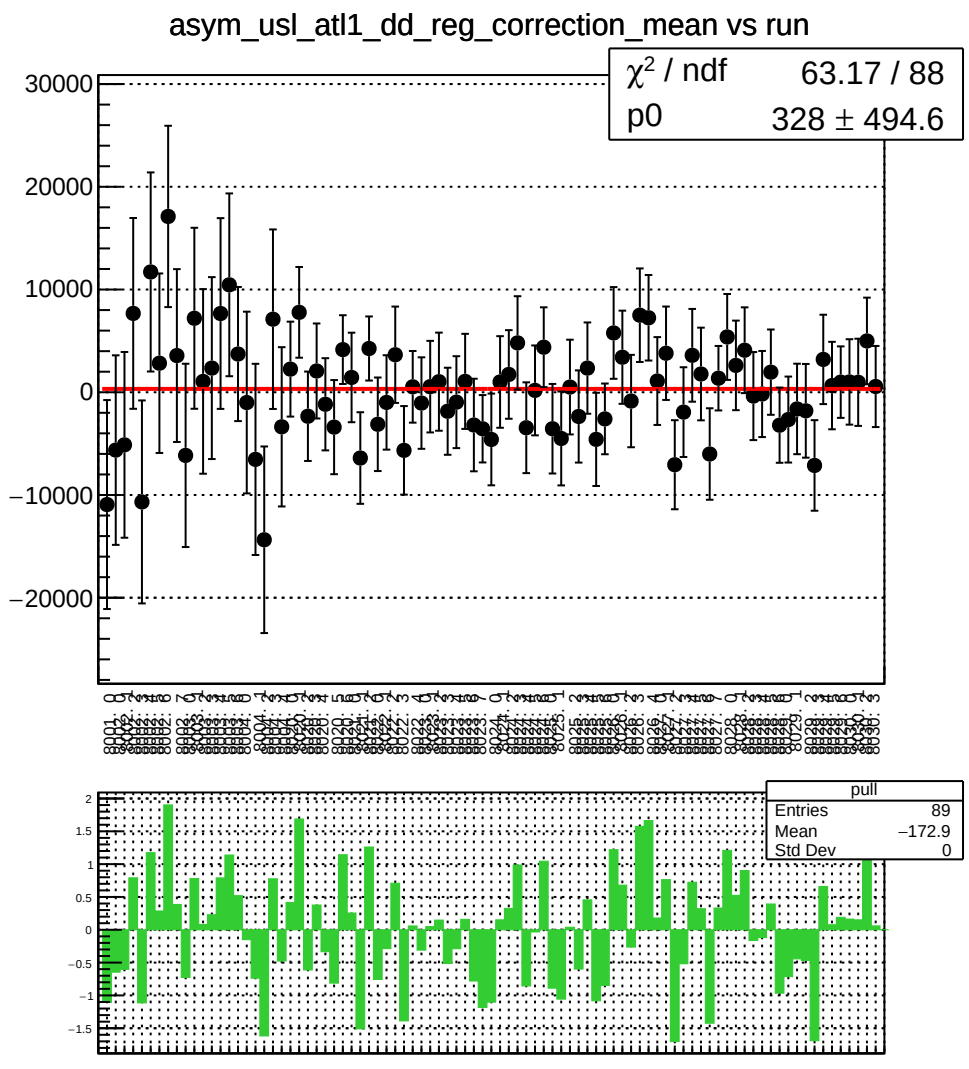

pull1D
Entries 89
Mean −0.06332
Std Dev 1.112

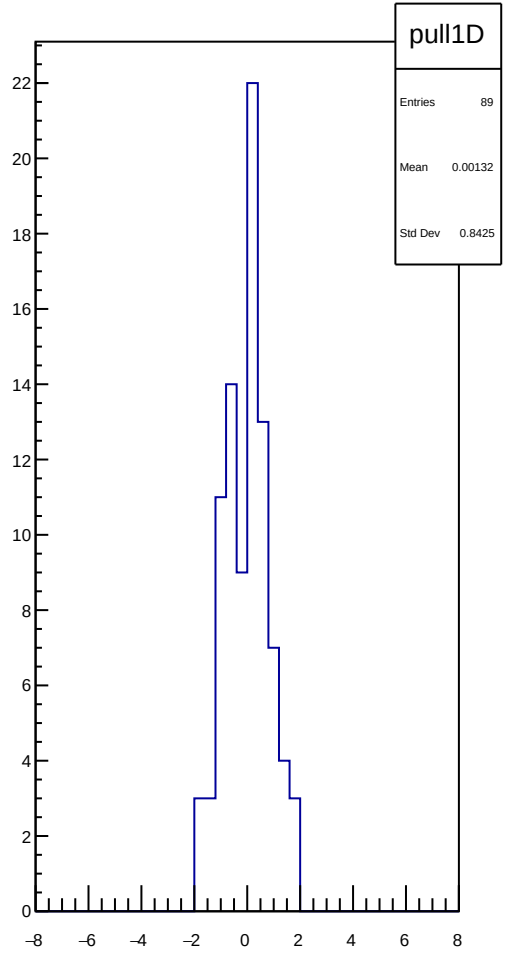

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.745e+05 / 88
p0 2.238e−11 ± 2.174e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

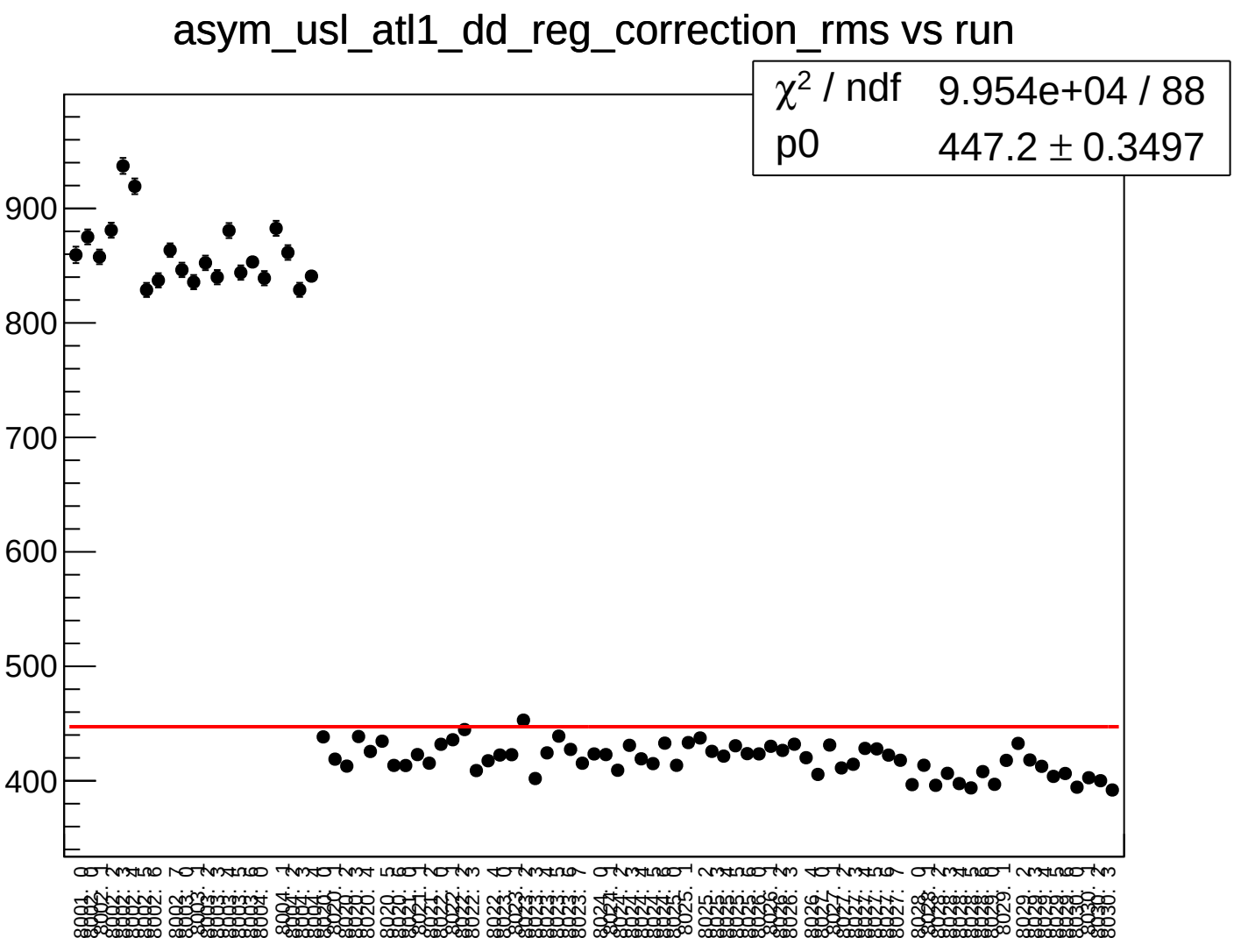

reg_asym_usl_atl1_dd_mean vs run
χ² / ndf 100.7 / 88
p0 144.5 ± 1201
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −49.16
Std Dev 0
2
1
0
−1
−2
−3

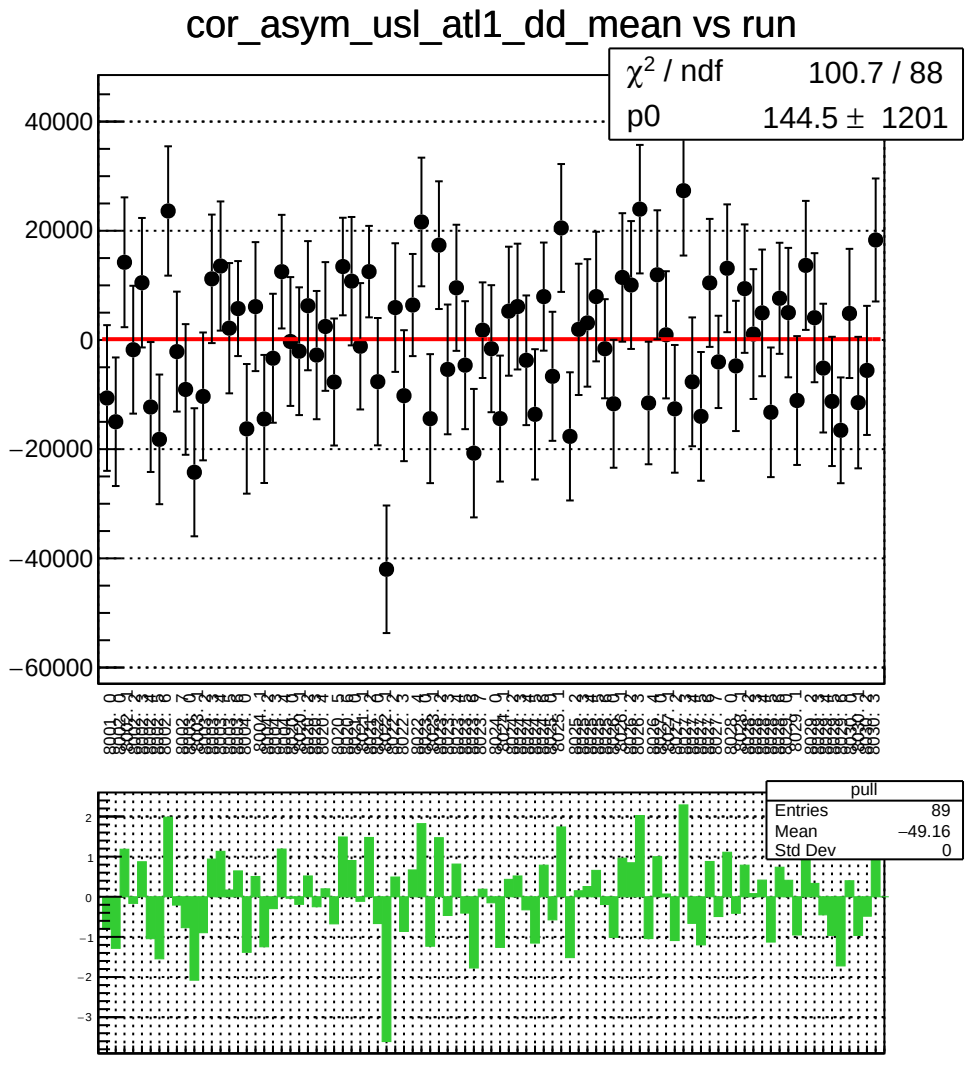

pull1D
Entries 89
Mean −0.01634
Std Dev 1.064
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

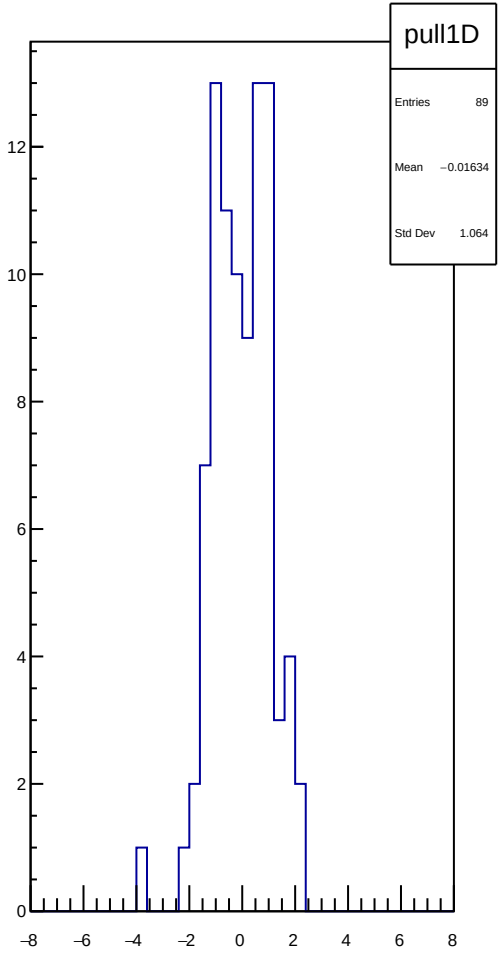

reg_asym_usl_atl1_dd_rms vs run
χ² / ndf 147.6 / 88
p0 1119 ± 0.8494
1150
1140
1130
1120
1110
1100
1090
1080

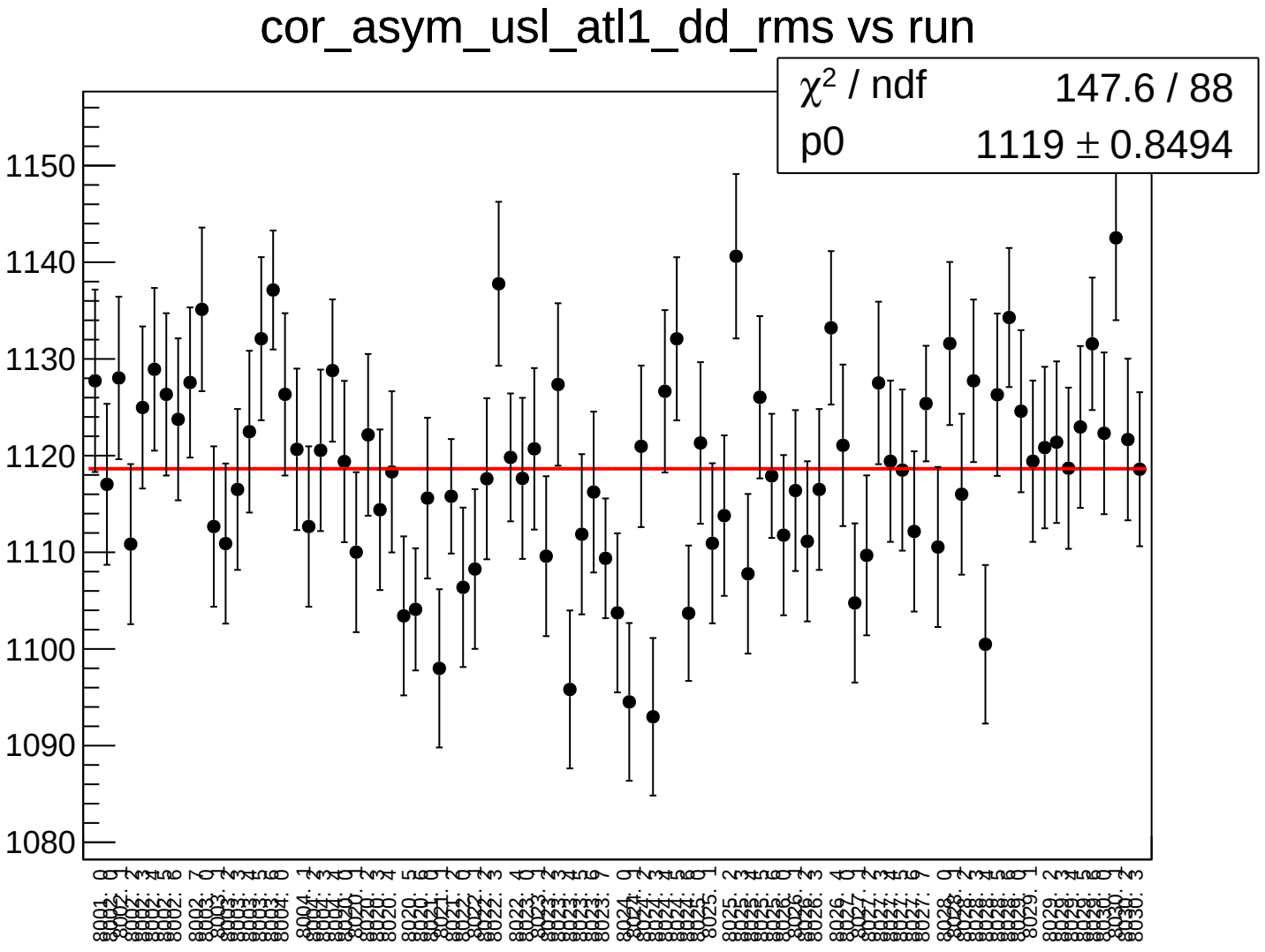

asym_usl_atl1_dd_reg_correction_mean vs run
χ² / ndf 63.17 / 88
p0 328 ± 494.6
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −172.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

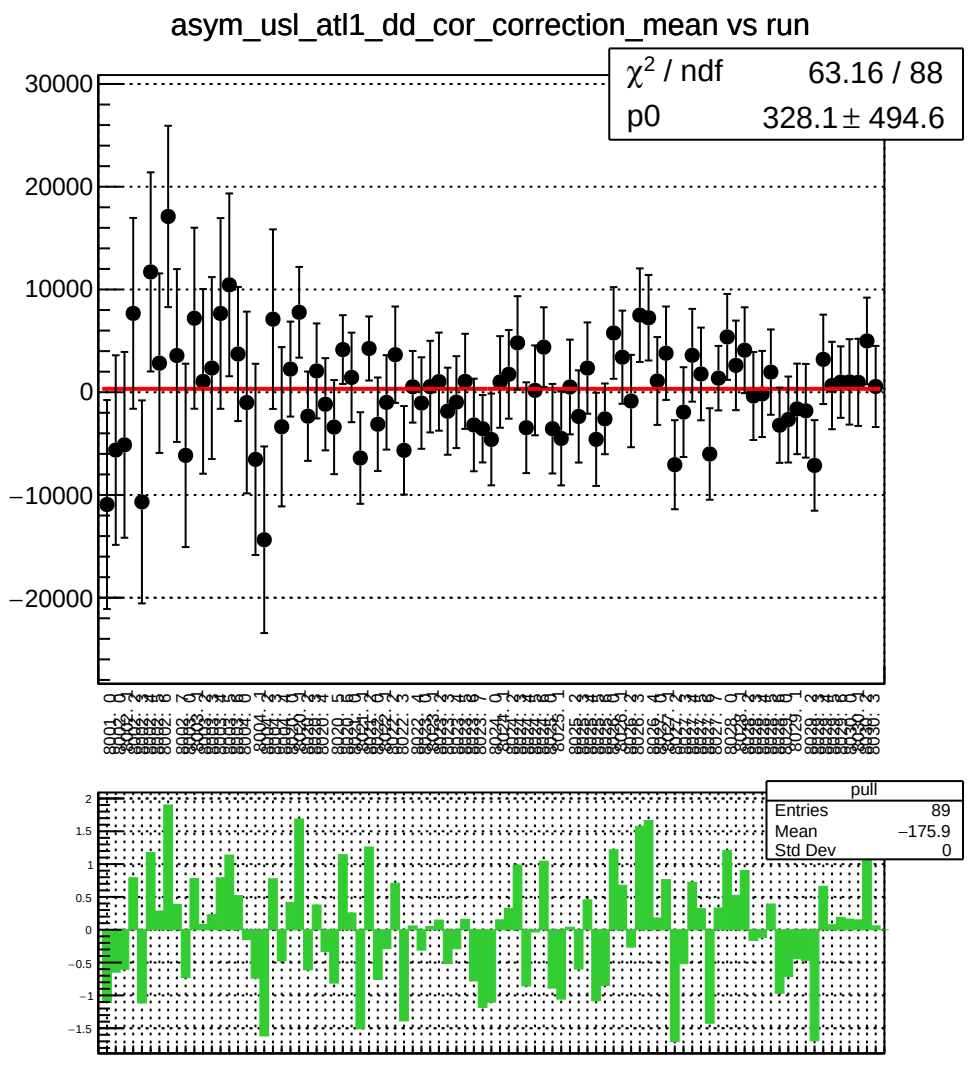

pull1D
Entries 89
Mean 0.00132
Std Dev 0.8425
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

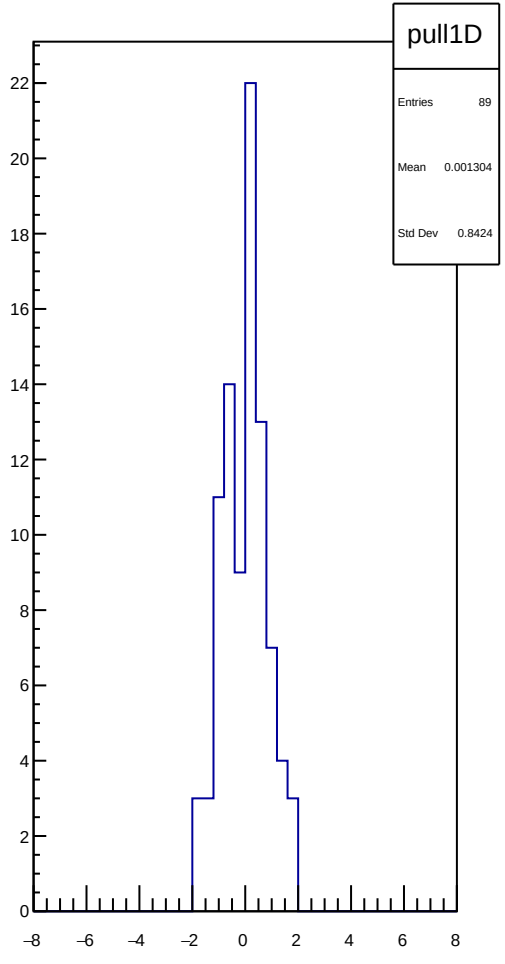

asym_usl_atl1_dd_reg_correction_rms vs run
χ² / ndf 9.954e+04 / 88
p0 447.2 ± 0.3497
900
800
700
600
500
400

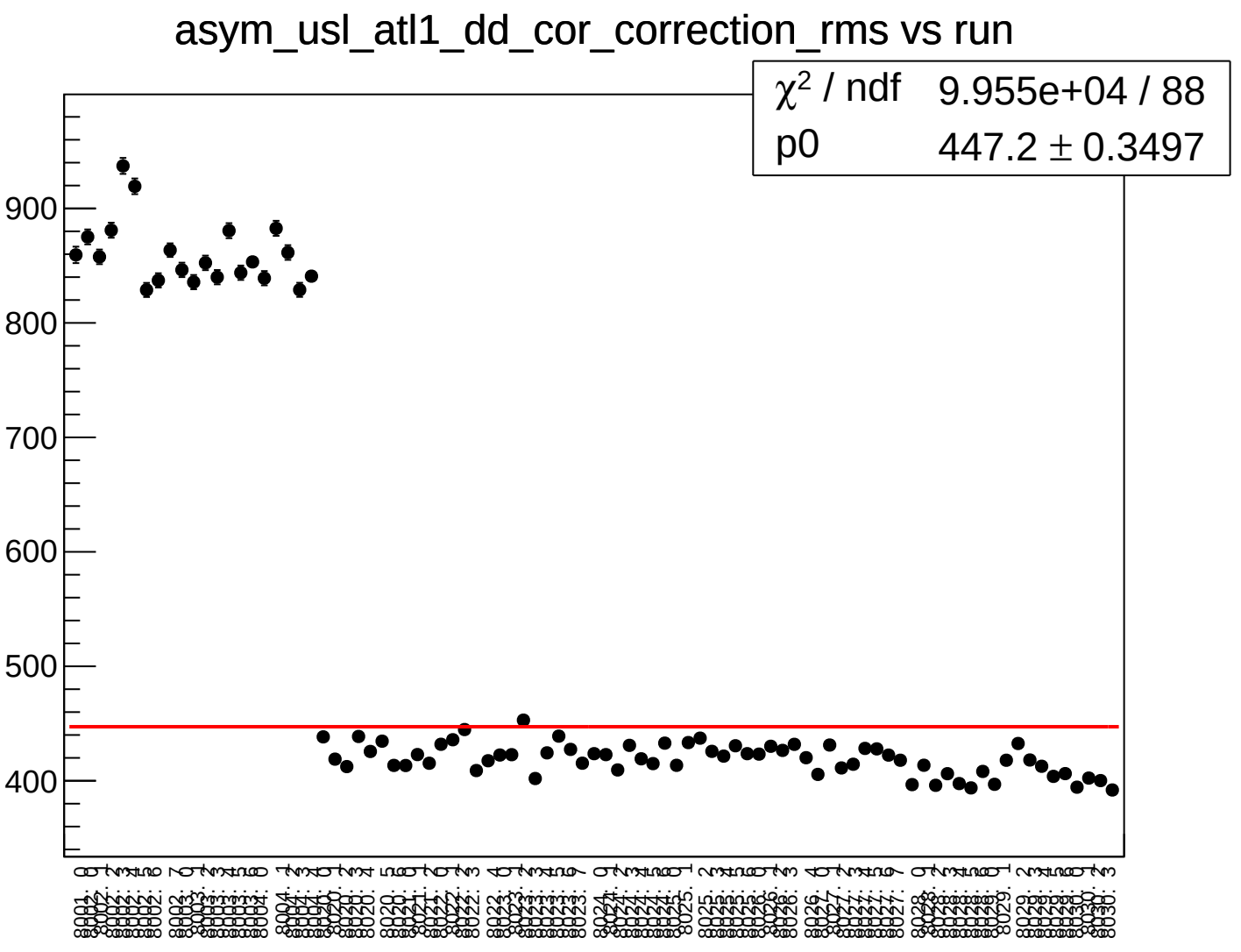

cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 100.7 / 88
p0 144.5 ± 1201
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −49.16
Std Dev 0
2
1
0
−1
−2
−3

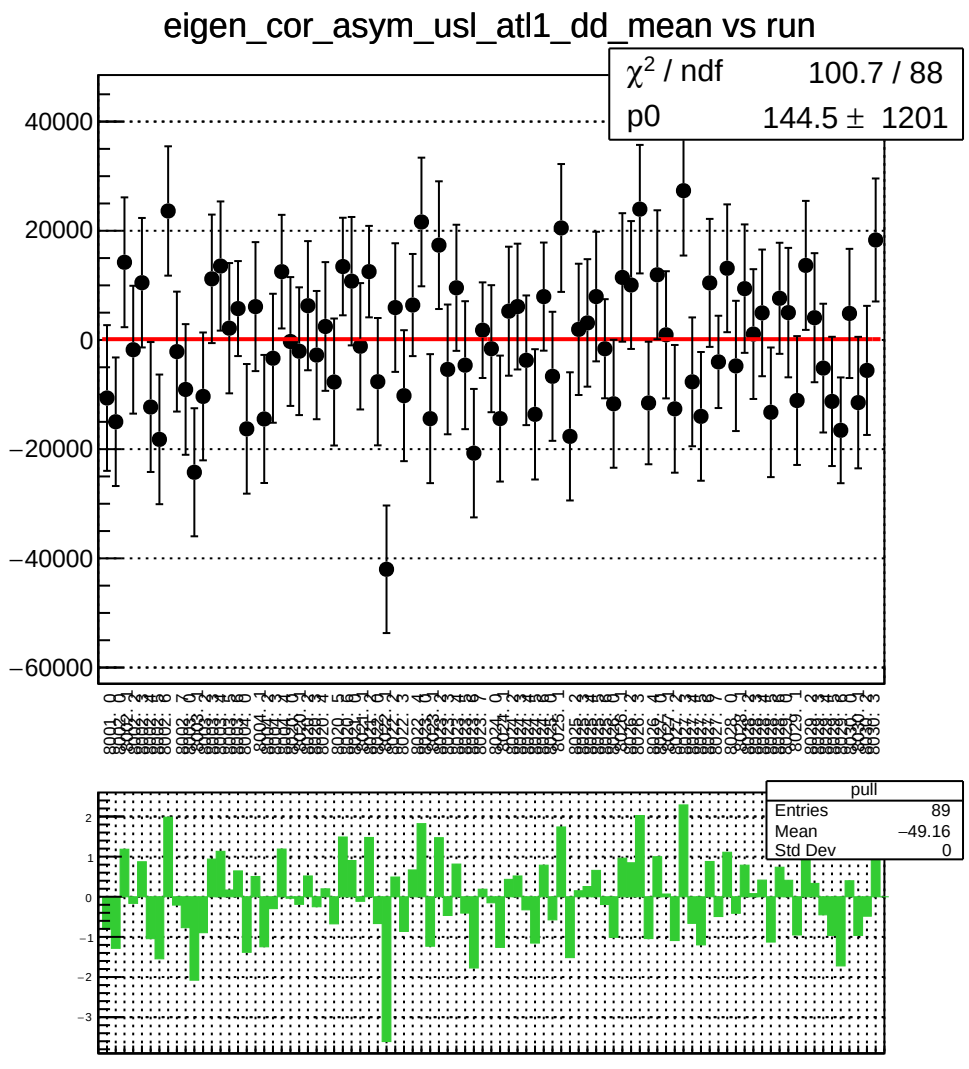

pull1D
Entries 89
Mean −0.01634
Std Dev 1.064
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

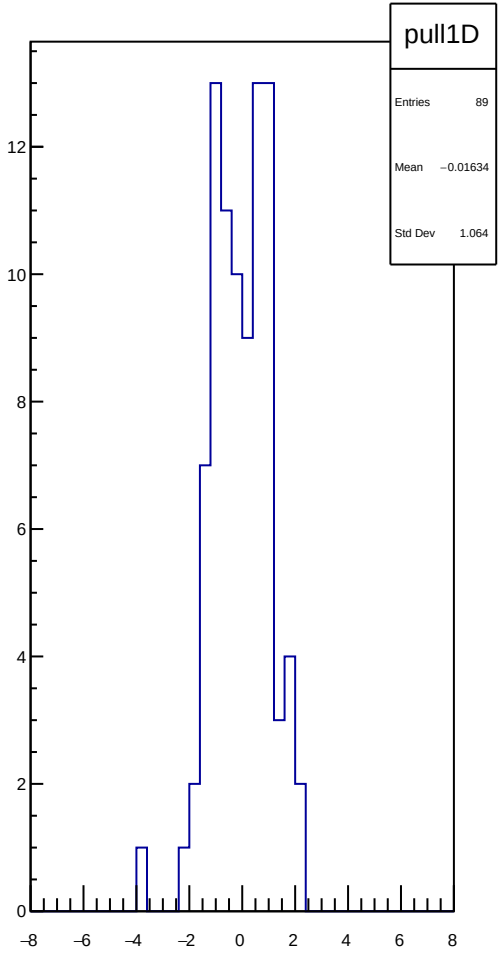

cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 147.6 / 88
p0 1119 ± 0.8494
1150
1140
1130
1120
1110
1100
1090
1080

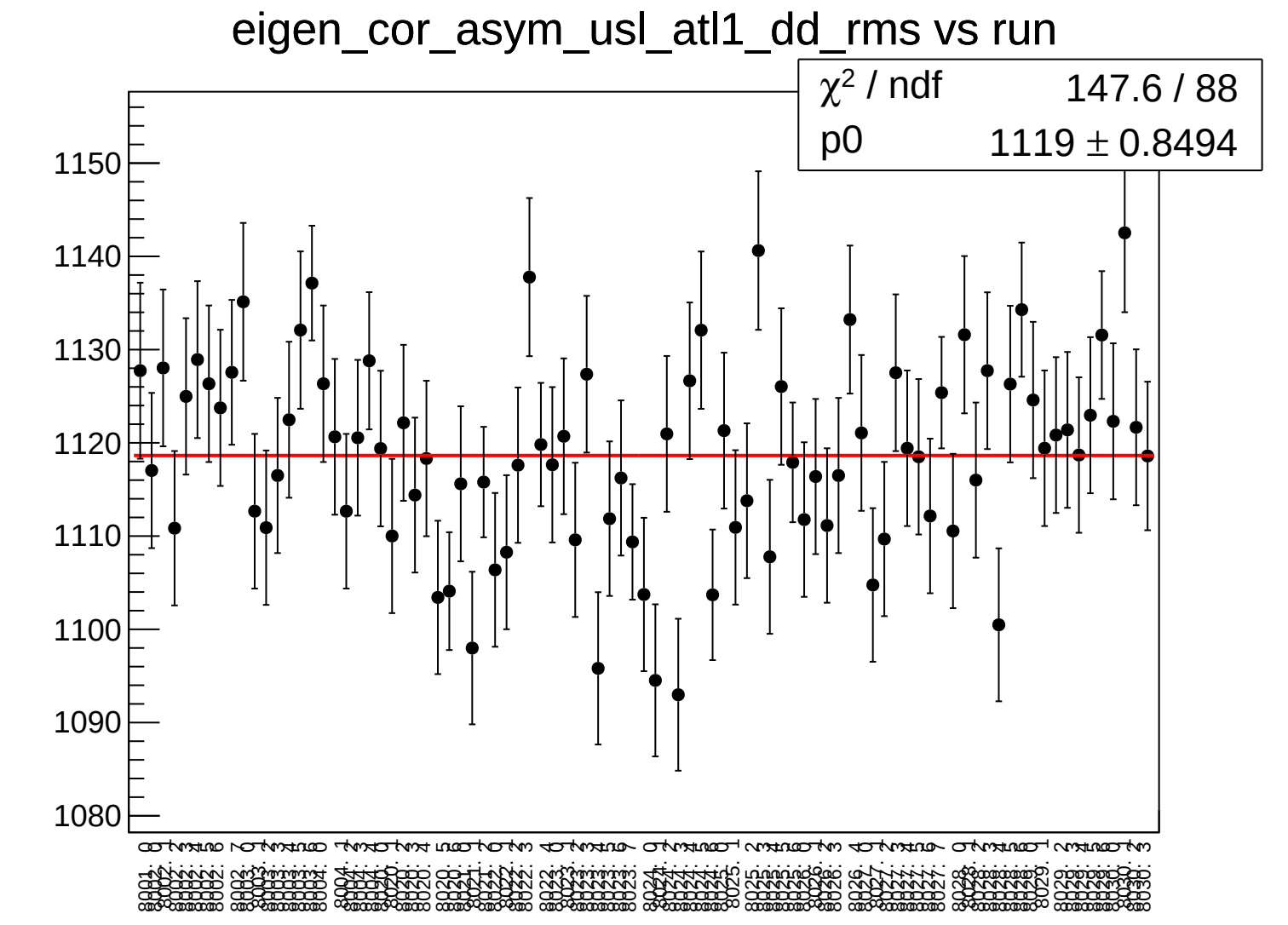

asym_usl_atl1_dd_cor_correction_mean vs run
χ² / ndf 63.16 / 88
p0 328.1 ± 494.6
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −175.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

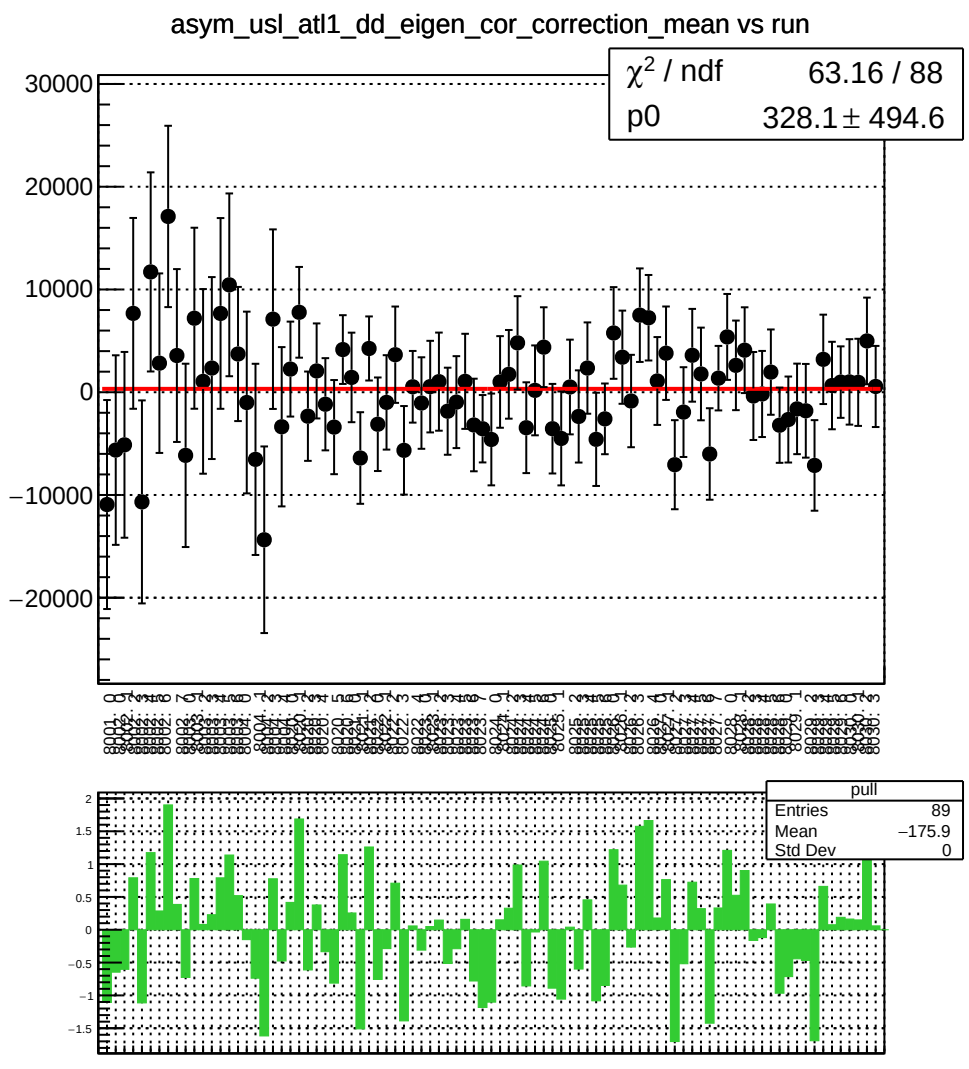

pull1D
Entries 89
Mean 0.001304
Std Dev 0.8424
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

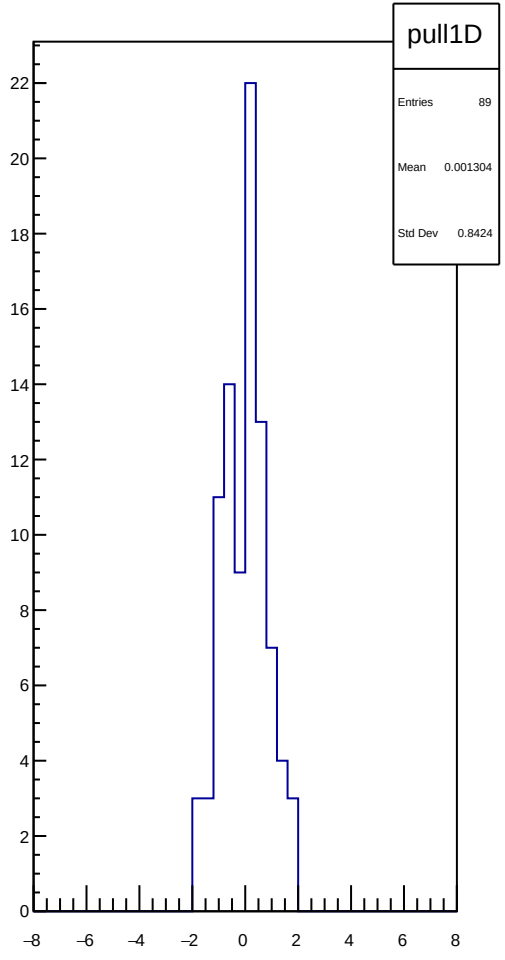

asym_usl_atl1_dd_cor_correction_rms vs run
χ² / ndf 9.955e+04 / 88
p0 447.2 ± 0.3497
900
800
700
600
500
400

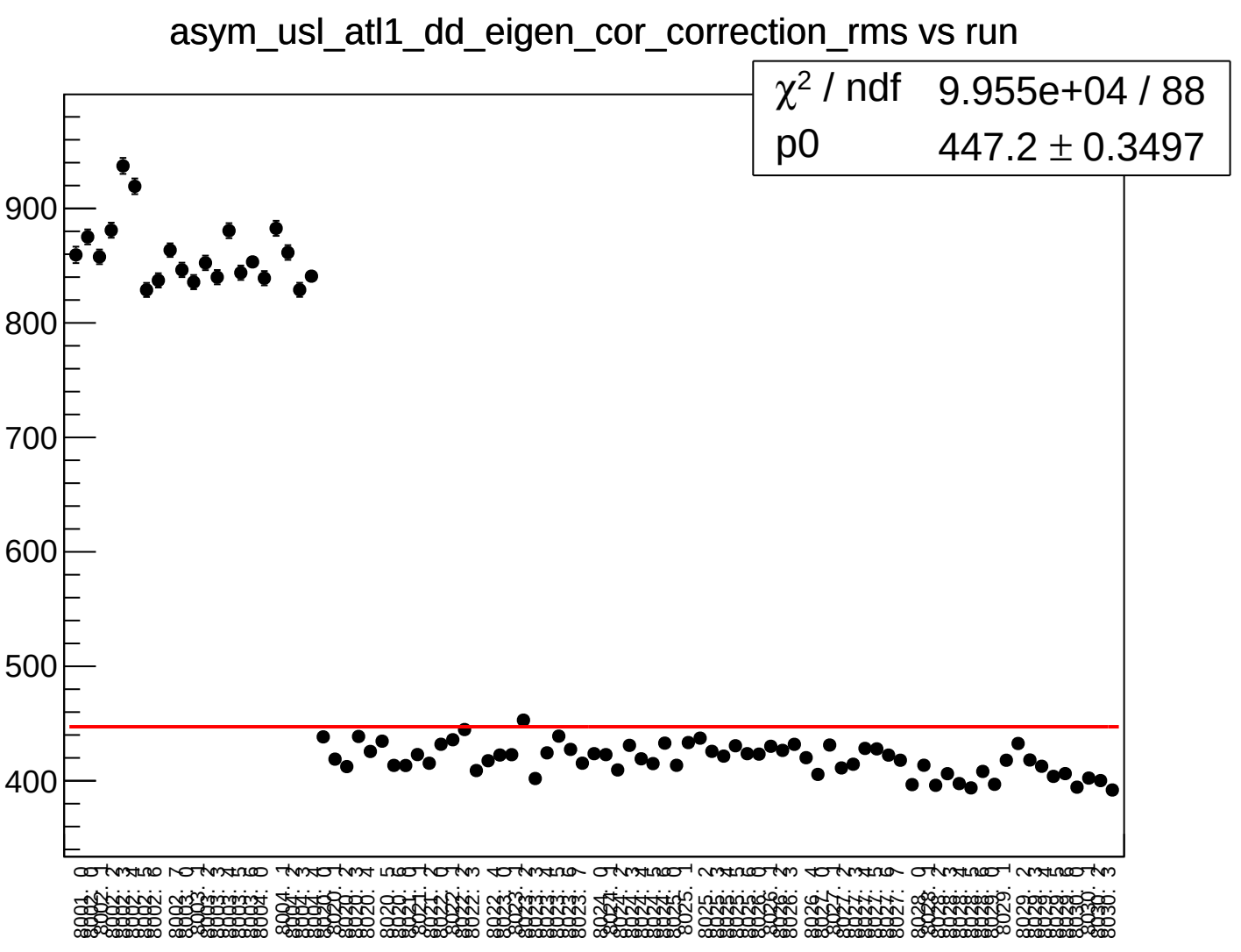

eigen_cor_asym_usl_atl1_dd_mean vs run
χ^2 / ndf 100.7 / 88
p0 144.5 ± 1201
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −49.16
Std Dev 0
2
1
0
−1
−2
−3

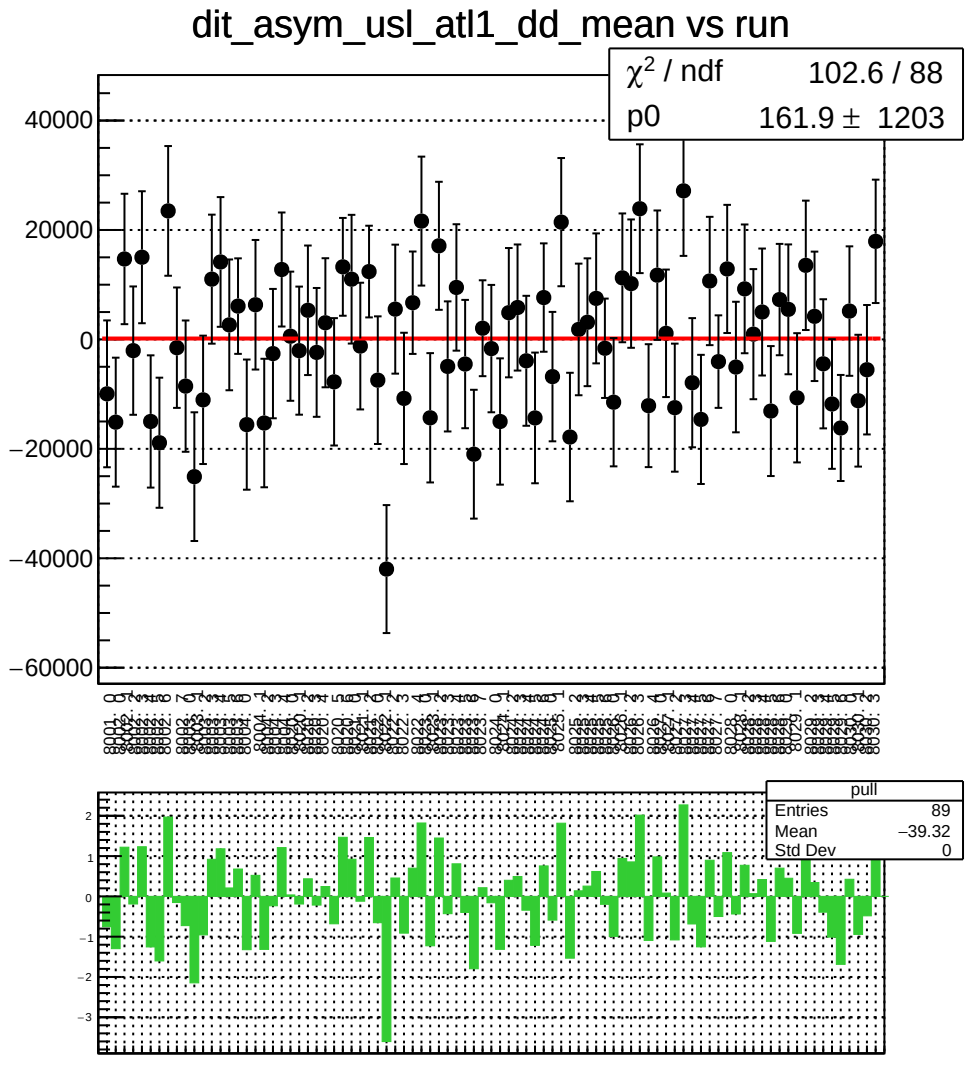

pull1D
Entries 89
Mean −0.01634
Std Dev 1.064
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

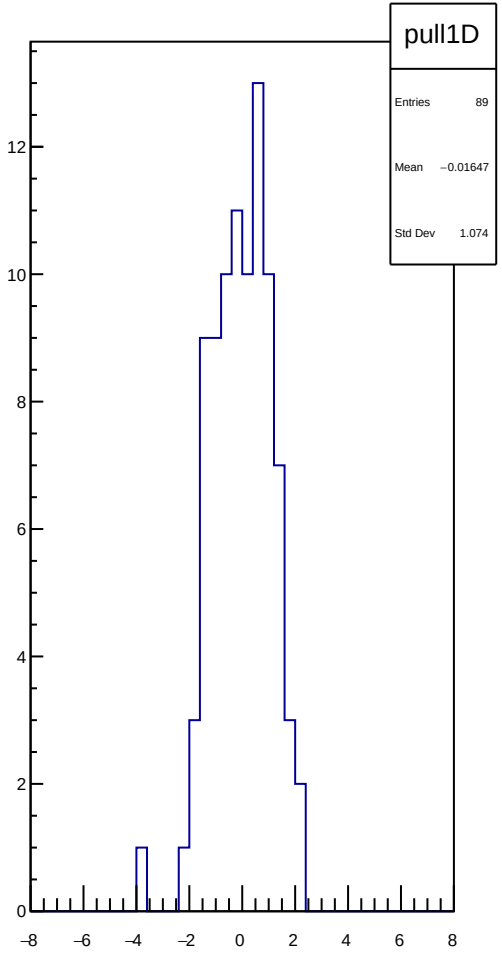

eigen_cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 147.6 / 88
p0 1119 ± 0.8494
1150
1140
1130
1120
1110
1100
1090
1080


asym_usl_atl1_dd_eigen_cor_correction_mean vs run
χ² / ndf 63.16 / 88
p0 328.1 ± 494.6
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −175.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

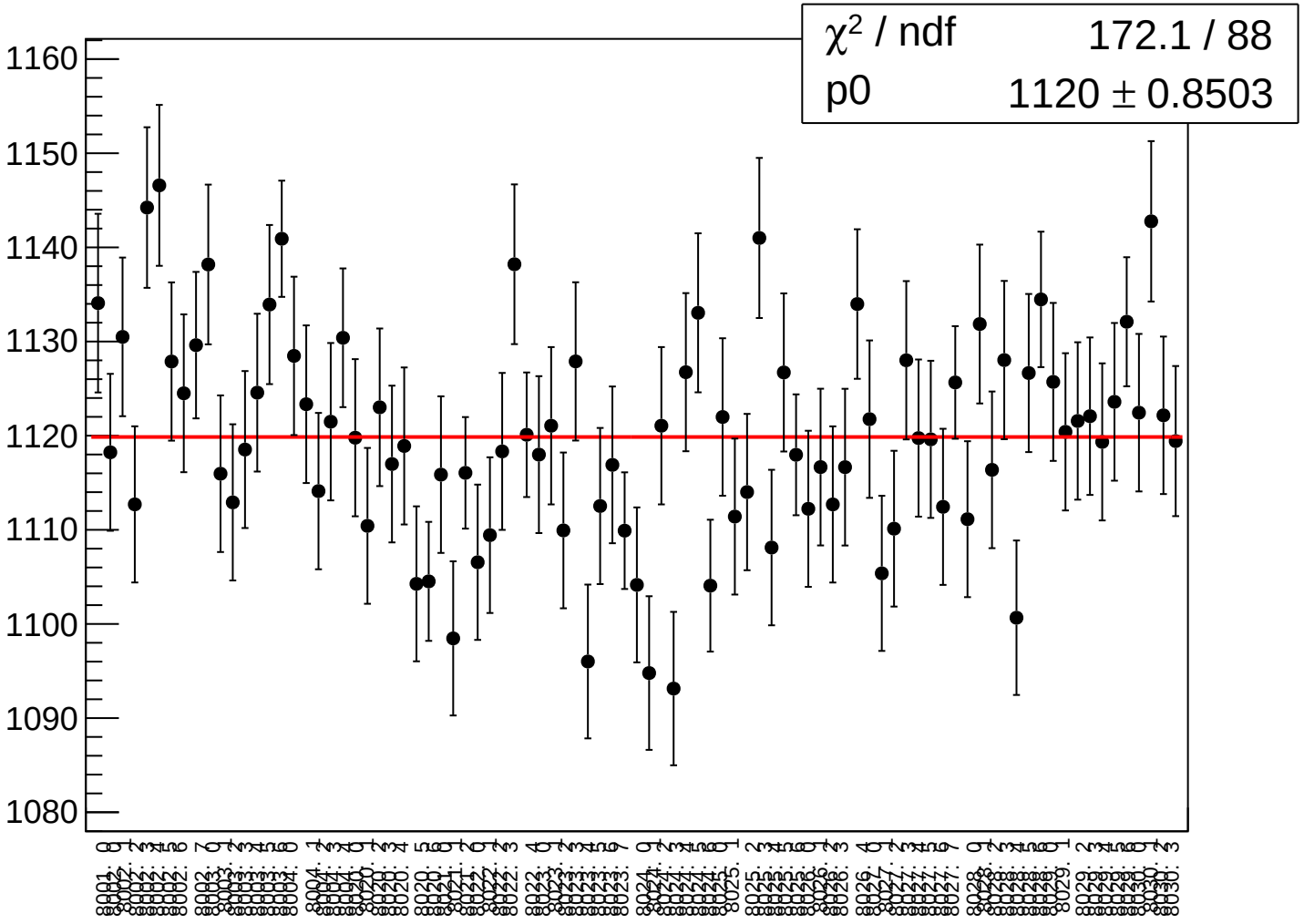

pull1D
Entries 89
Mean 0.001304
Std Dev 0.8424
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

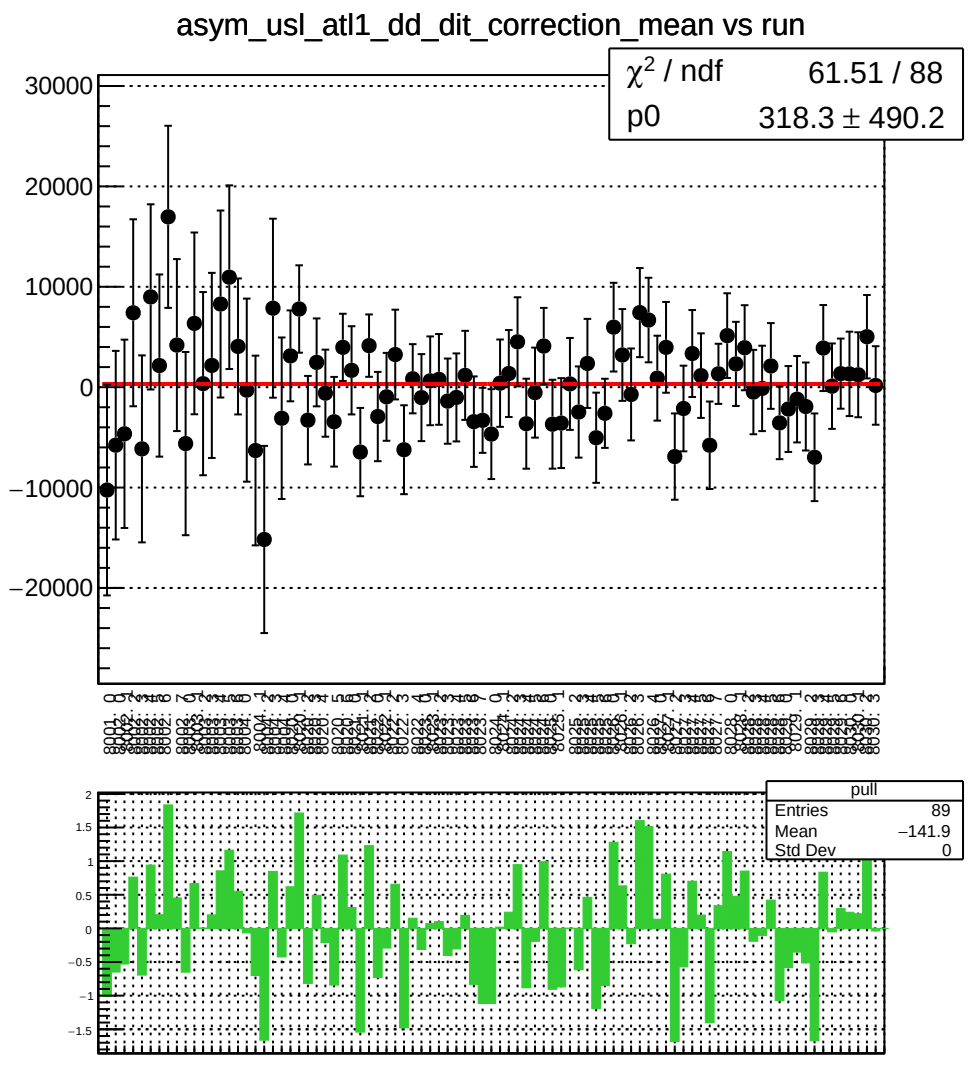

asym_usl_atl1_dd_eigen_cor_correction_rms vs run
χ² / ndf 9.955e+04 / 88
p0 447.2 ± 0.3497
900
800
700
600
500
400

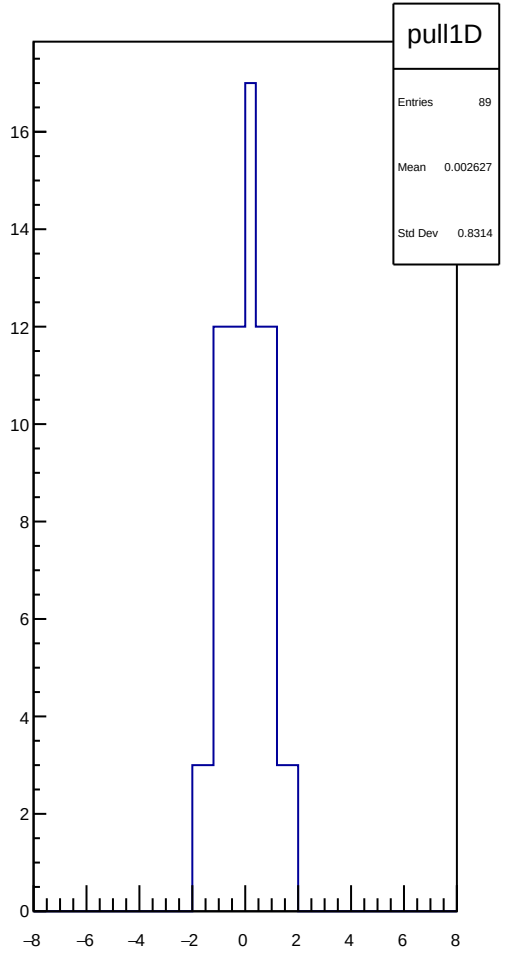

dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 102.6 / 88
p0 161.9 ± 1203
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −39.32
Std Dev 0
2
1
0
−1
−2
−3

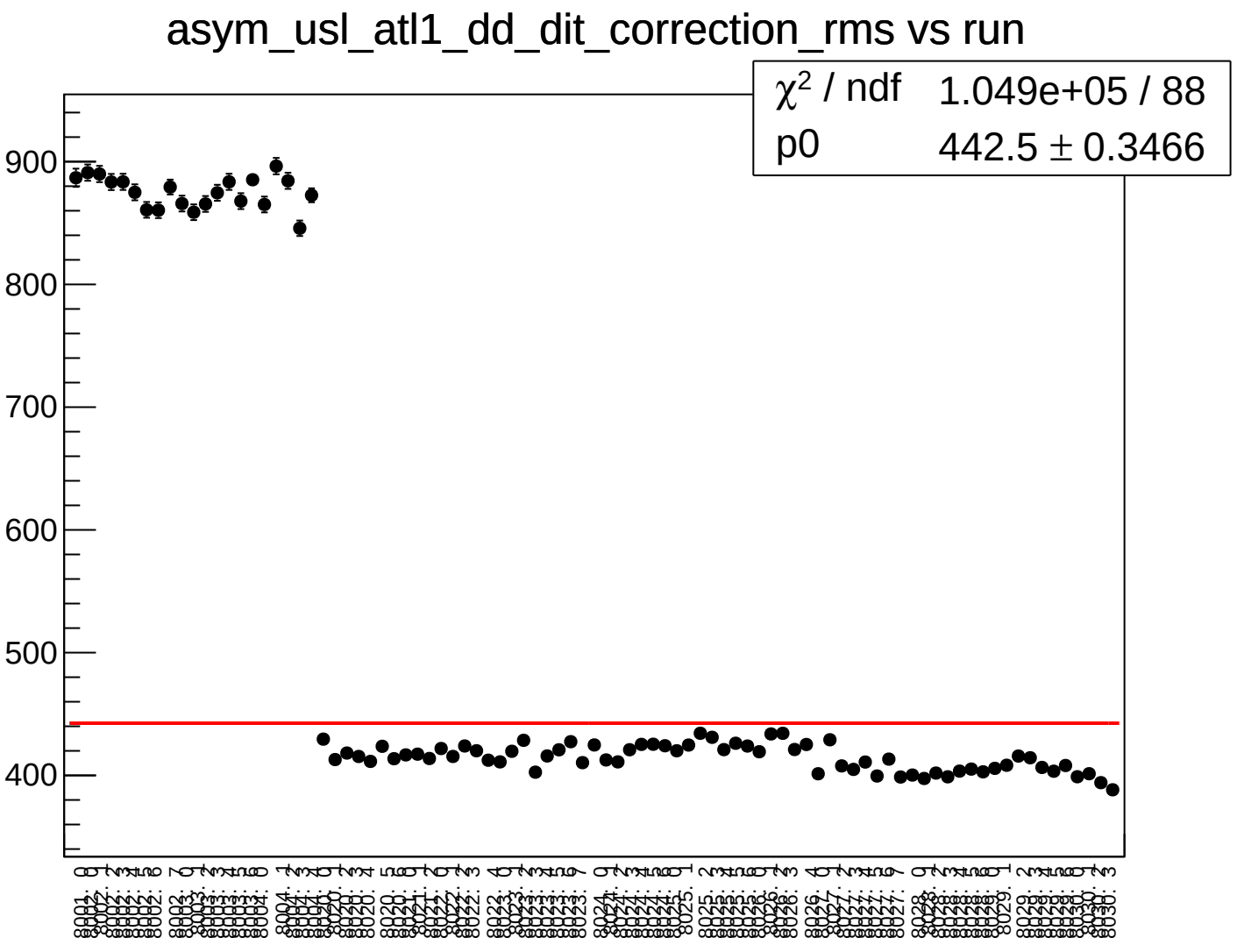

pull1D
Entries 89
Mean −0.01647
Std Dev 1.074
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

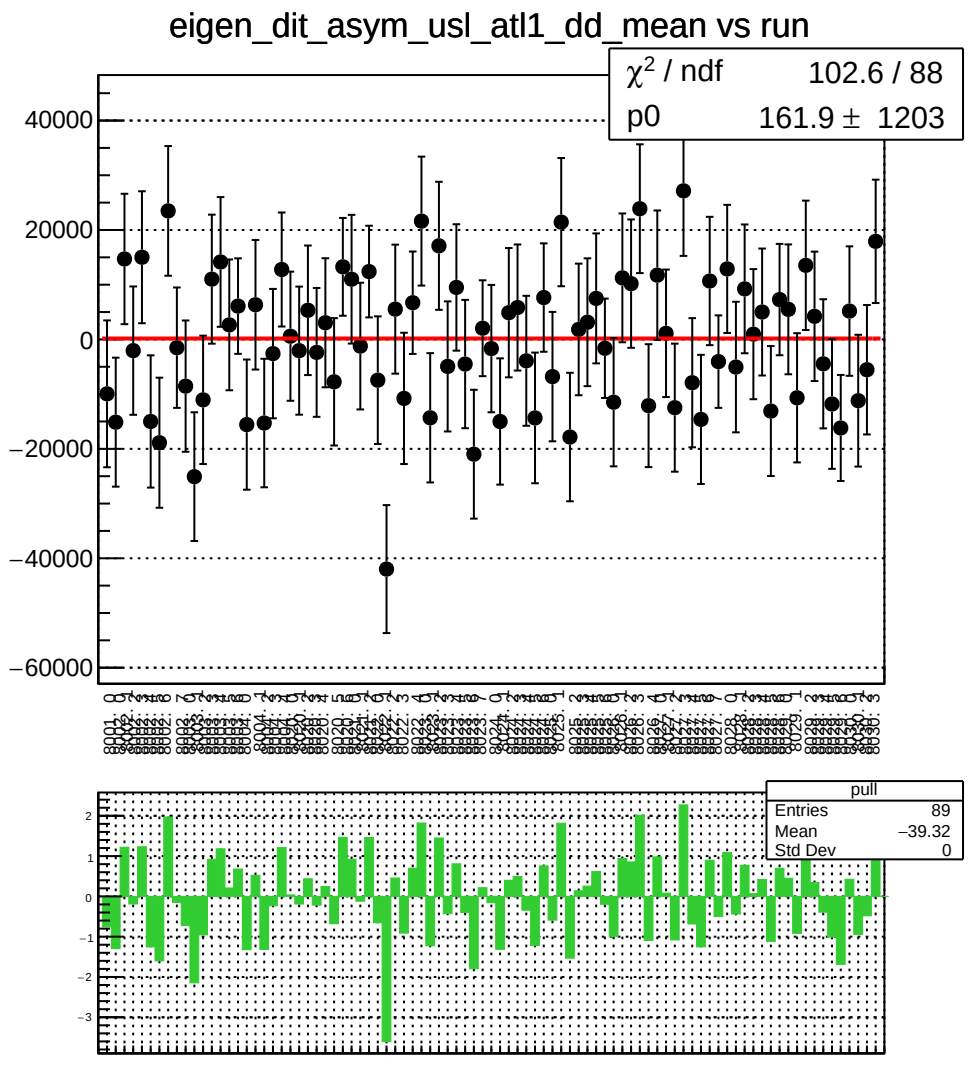
dit_asym_usl_atl1_dd_rms vs run

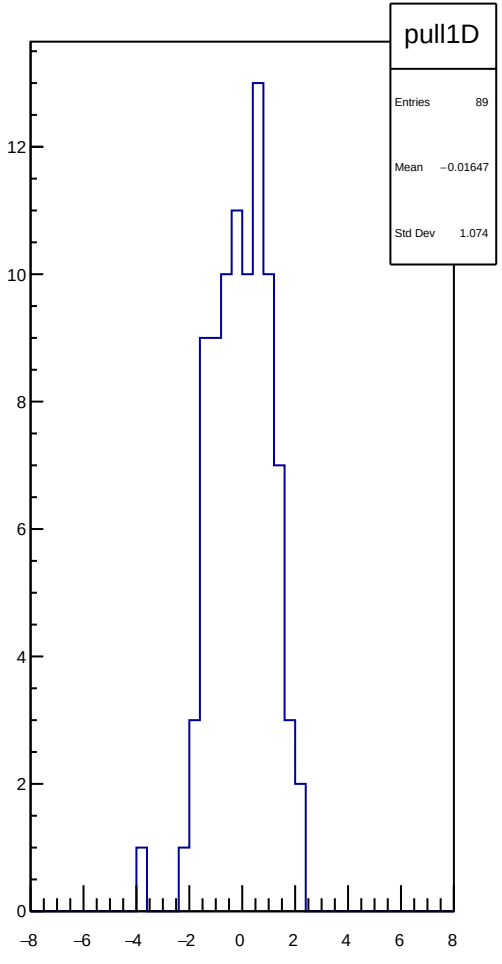


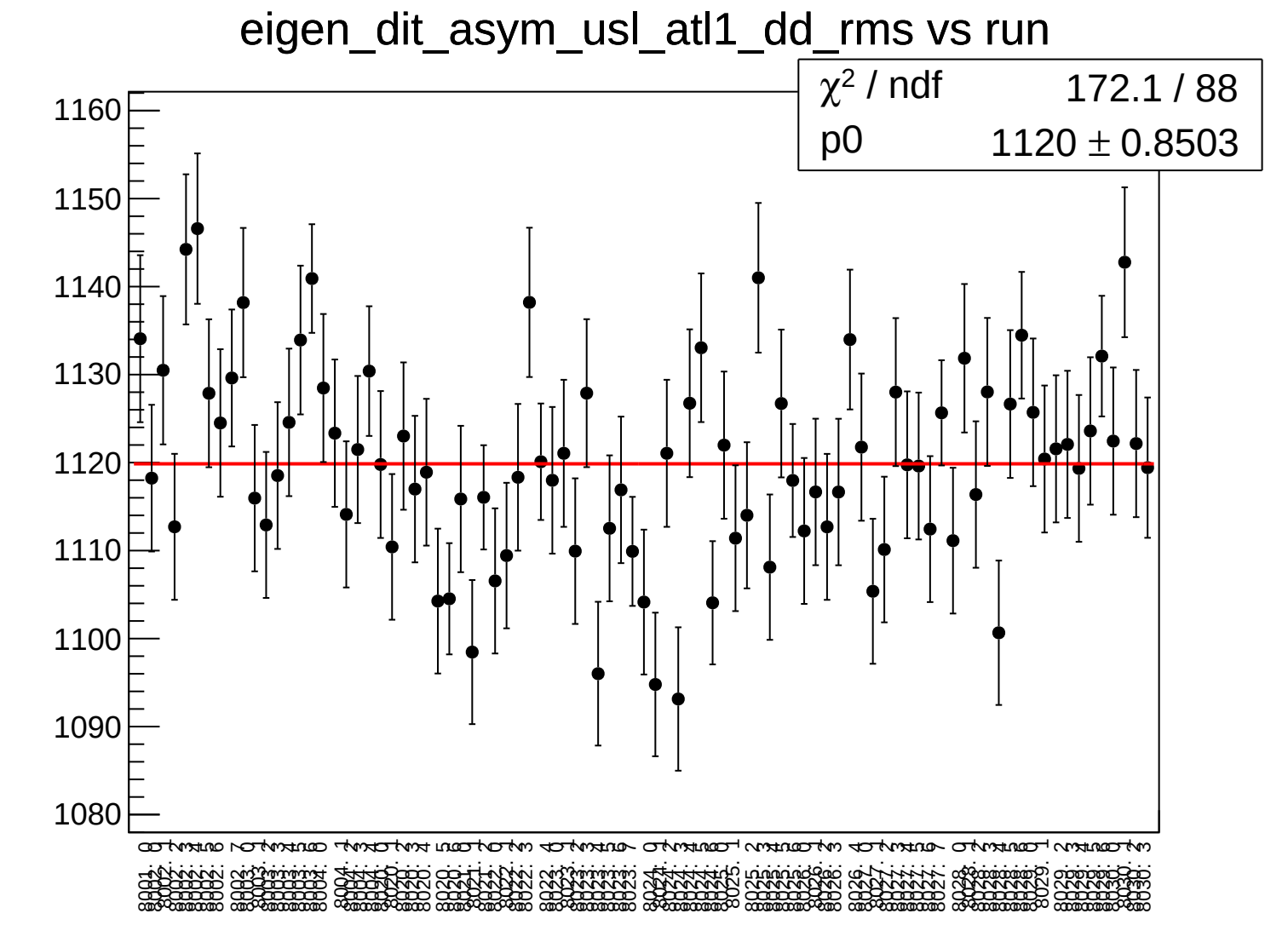

asym_usl_atl1_dd_dit_correction_mean vs run
χ² / ndf 61.51 / 88
p0 318.3 ± 490.2
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −141.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

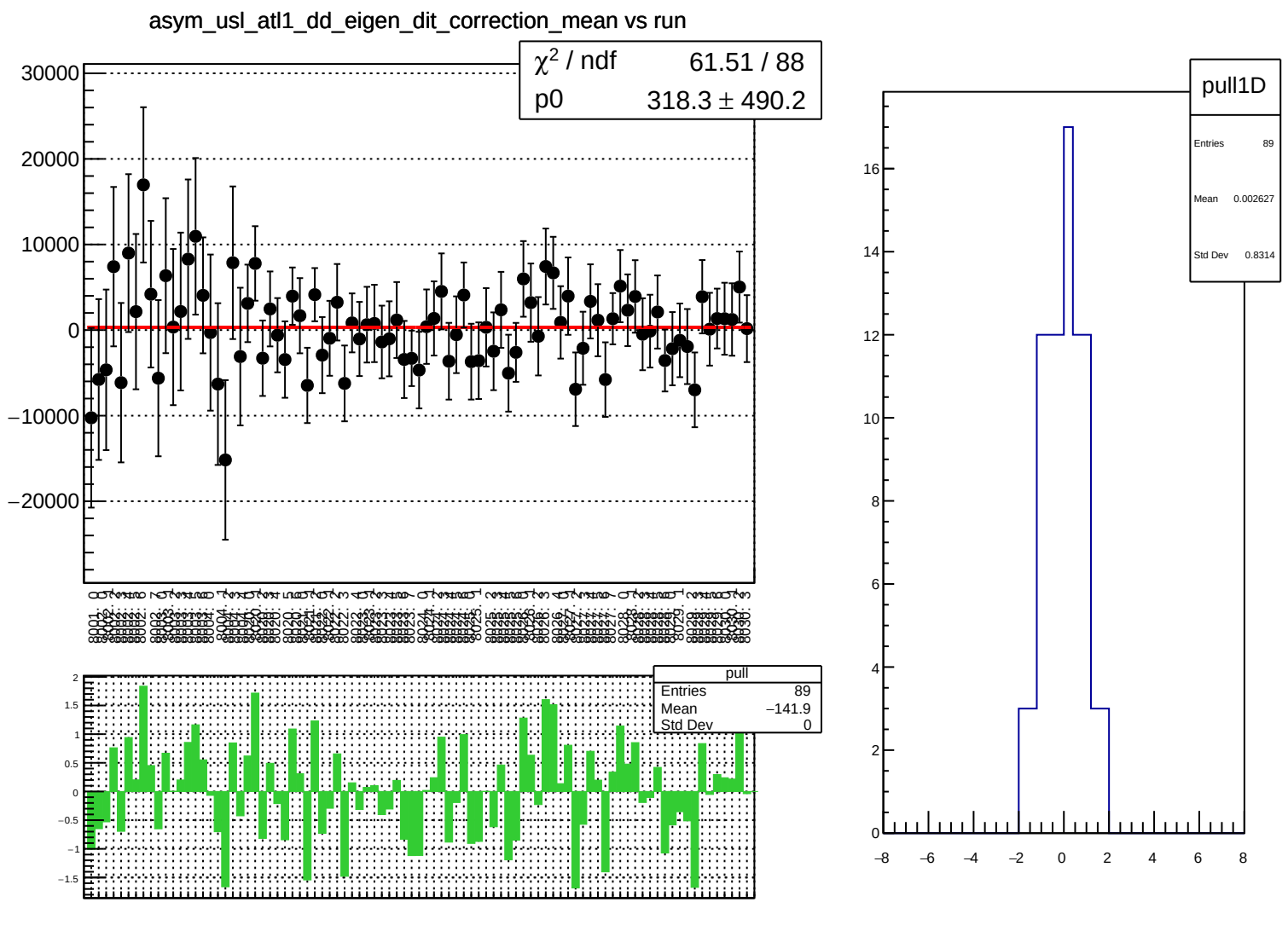

pull1D
Entries 89
Mean 0.002627
Std Dev 0.8314
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

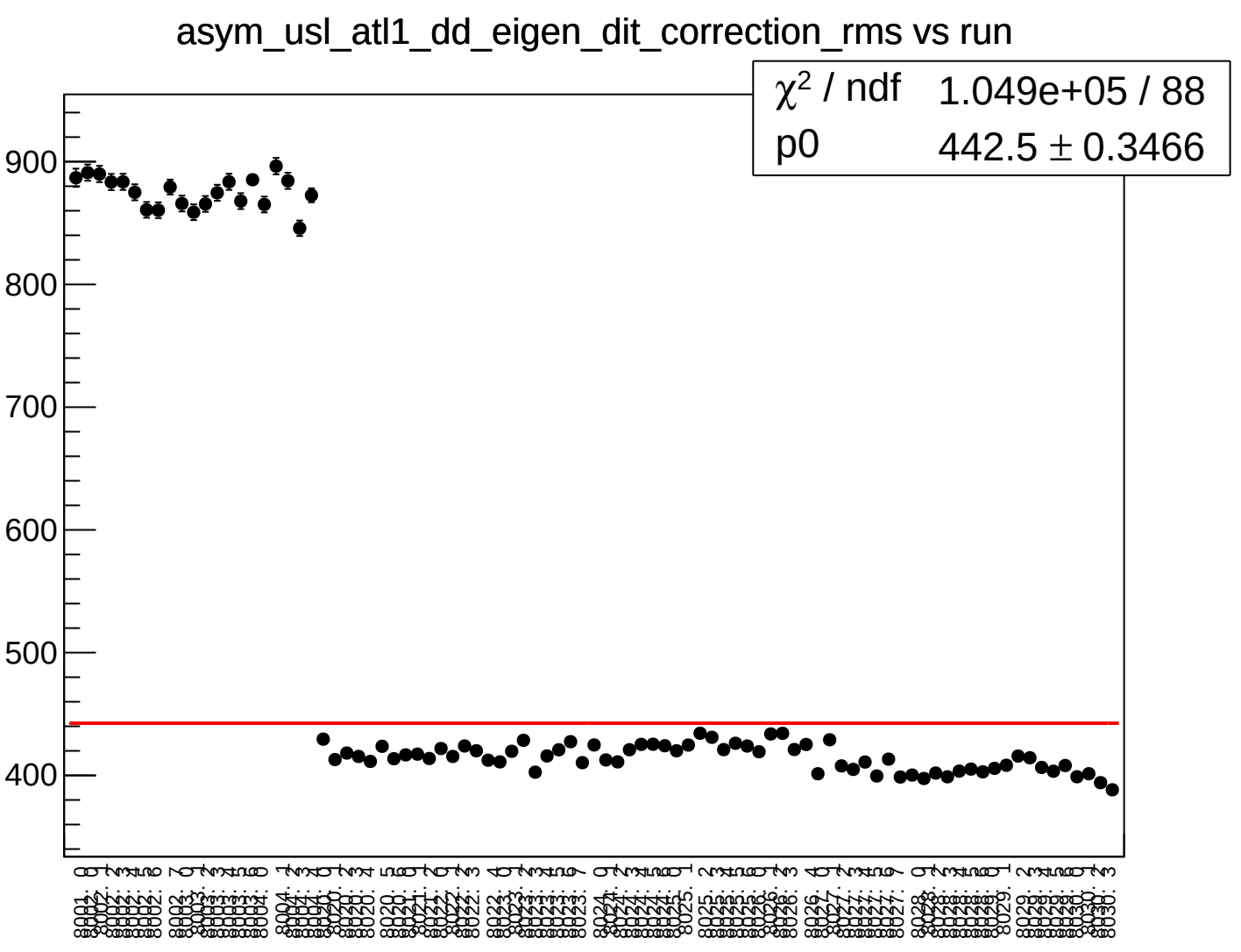

asym_usl_atl1_dd_dit_correction_rms vs run
χ² / ndf 1.049e+05 / 88
p0 442.5 ± 0.3466
900
800
700
600
500
400

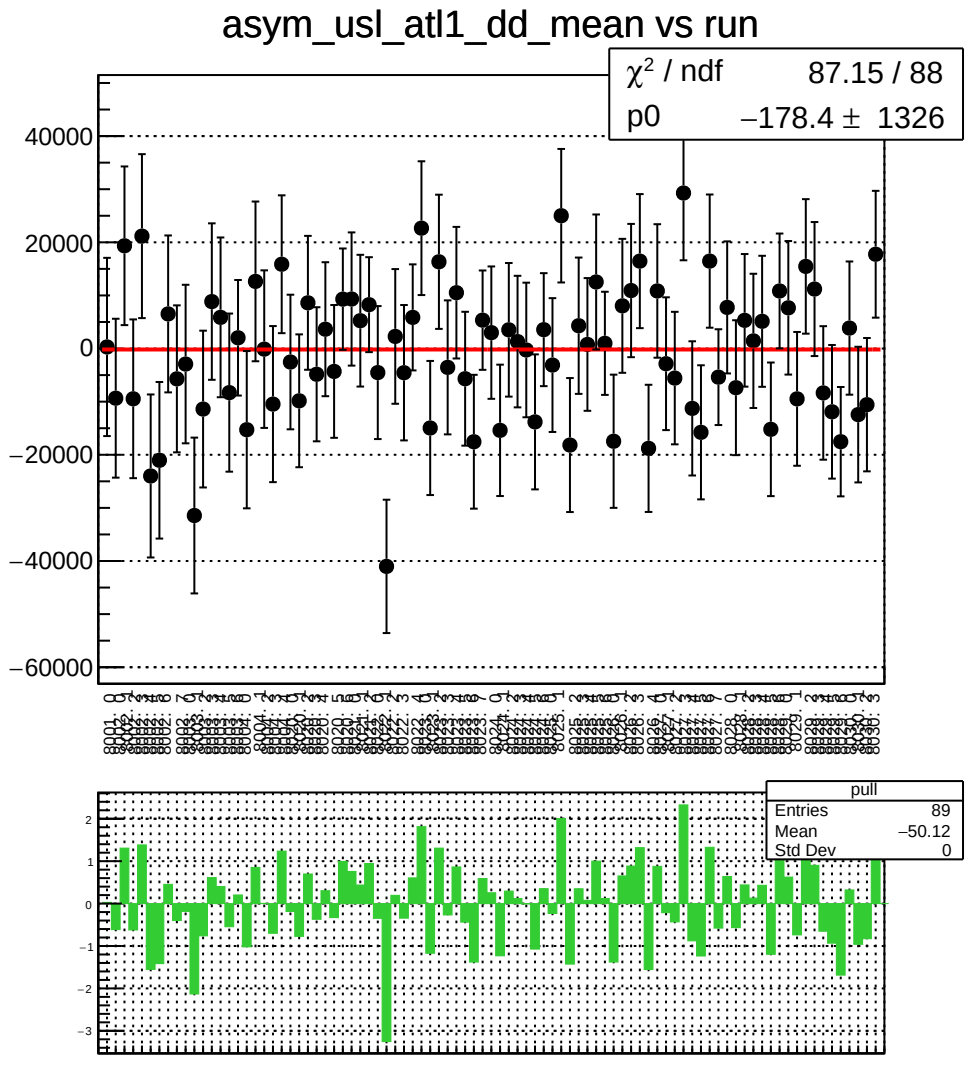

eigen_dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 102.6 / 88
p0 161.9 ± 1203
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −39.32
Std Dev 0
2
1
0
−1
−2
−3

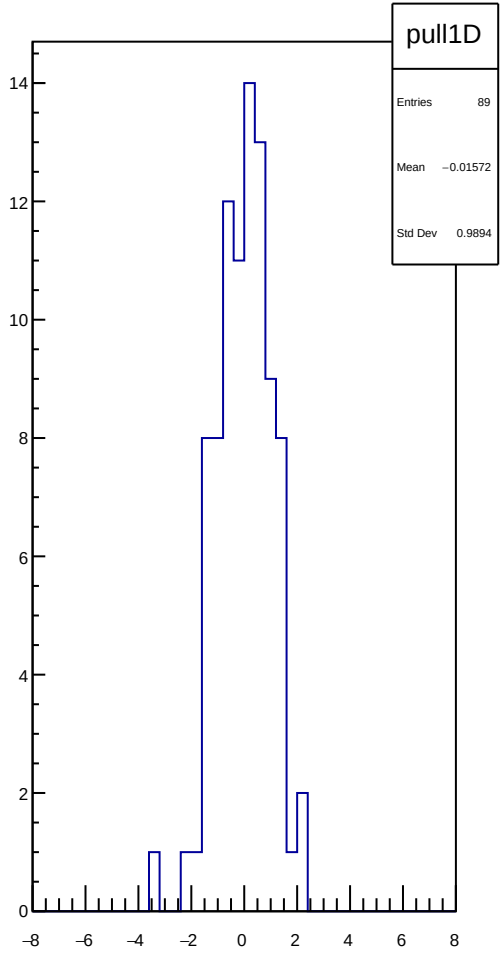

pull1D
Entries 89
Mean −0.01647
Std Dev 1.074
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

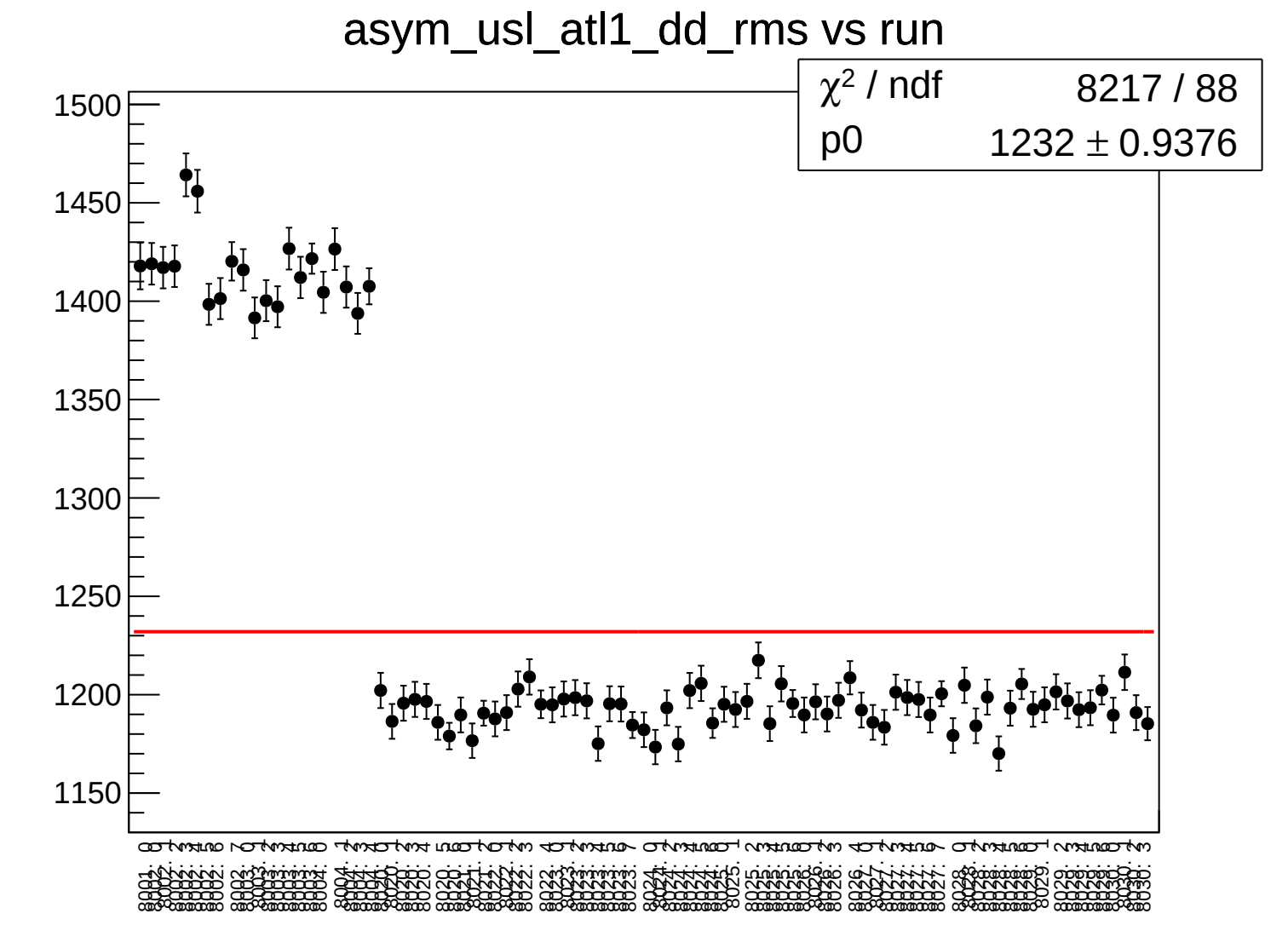

eigen_dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 172.1 / 88
p0 1120 ± 0.8503
1160
1150
1140
1130
1120
1110
1100
1090
1080

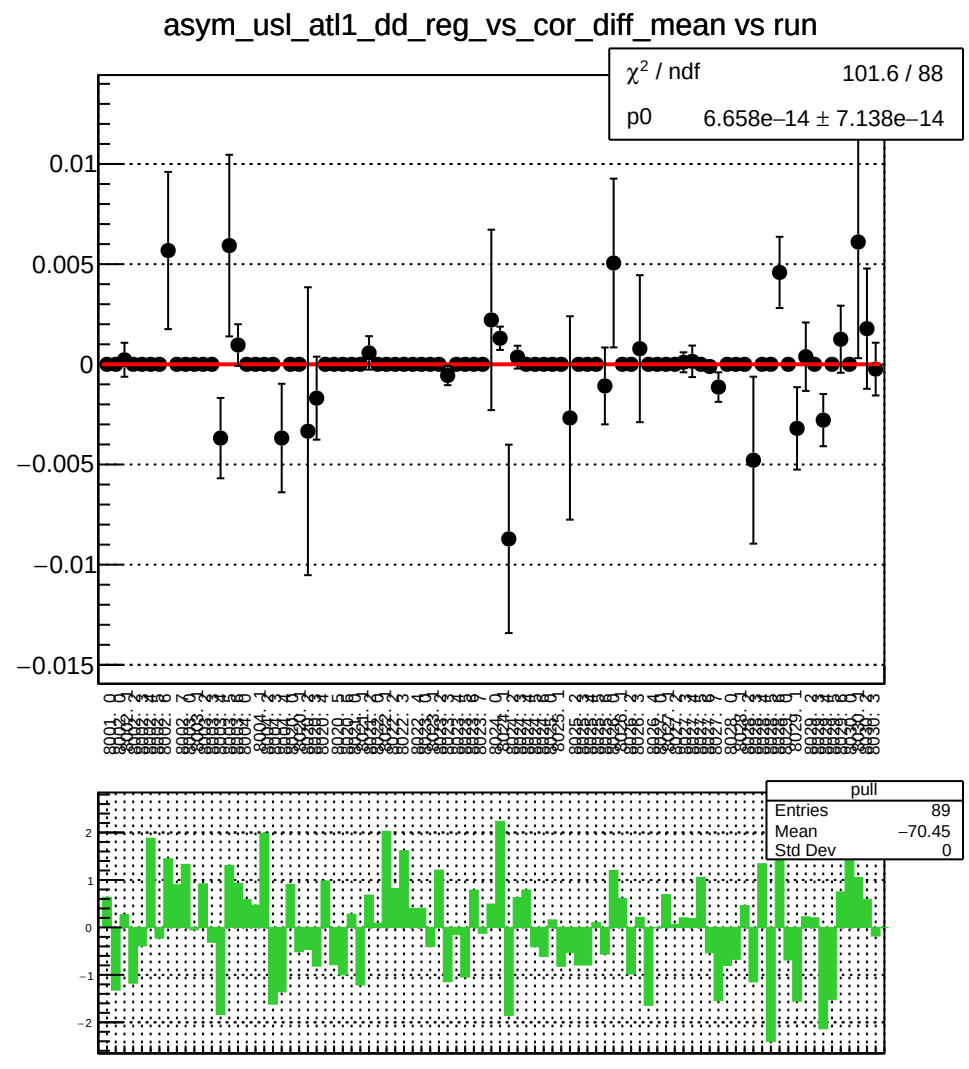

asym_usl_atl1_dd_eigen_dit_correction_mean vs run
χ² / ndf 61.51 / 88
p0 318.3 ± 490.2
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −141.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 89
Mean 0.002627
Std Dev 0.8314
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

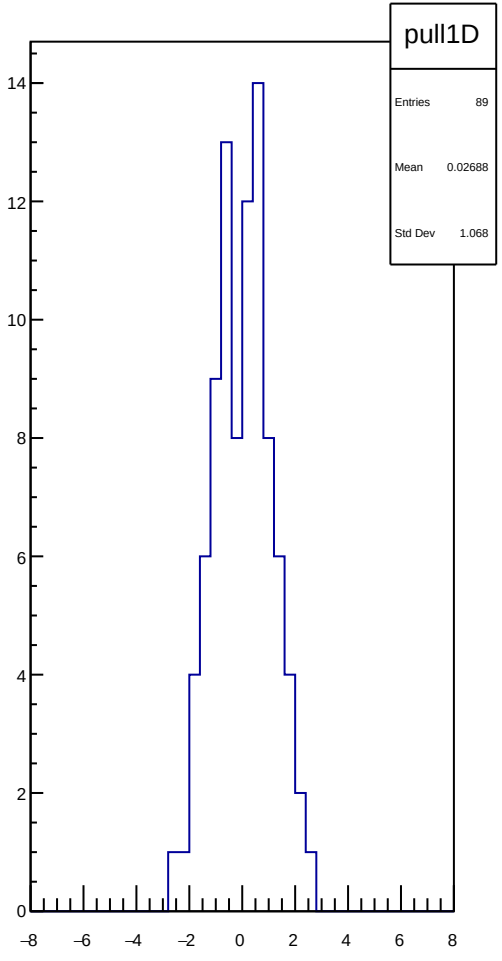

asym_usl_atl1_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.049e+05 / 88
p0 442.5 ± 0.3466
900
800
700
600
500
400

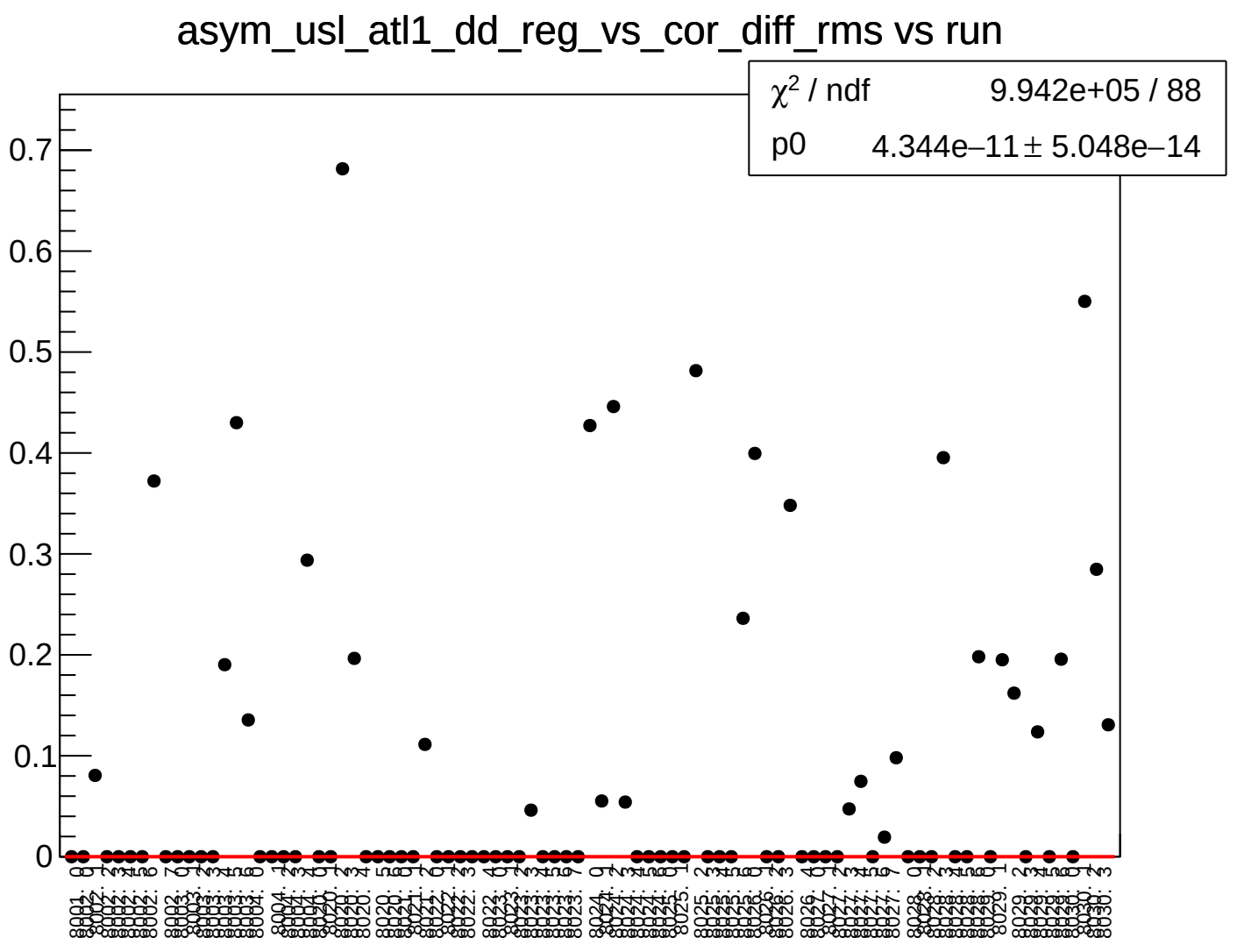

asym_usl_atl1_dd_mean vs run
χ² / ndf 87.15 / 88
p0 −178.4 ± 1326
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −50.12
Std Dev 0
2
1
0
−1
−2
−3

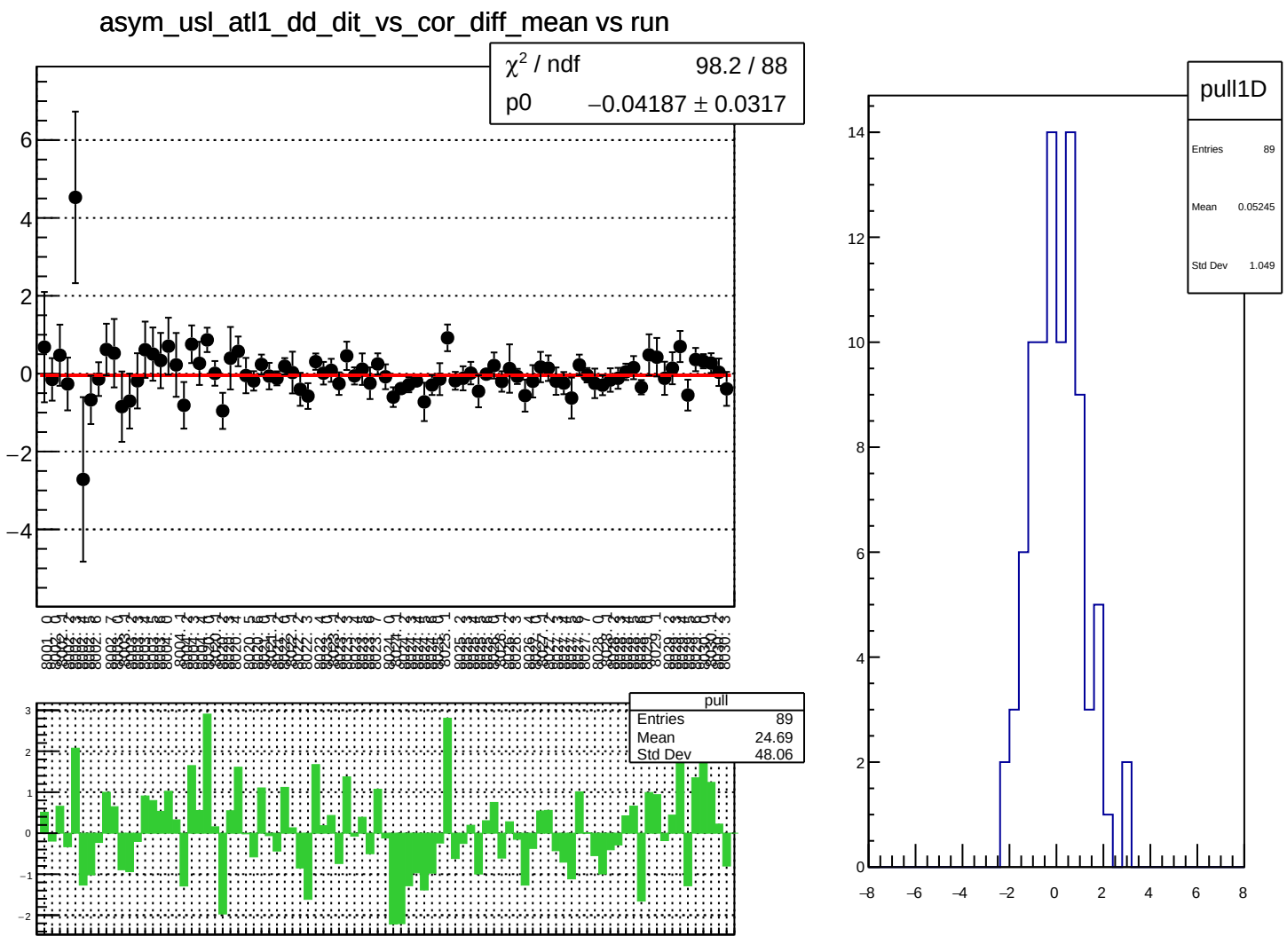

pull1D
Entries 89
Mean −0.01572
Std Dev 0.9894
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

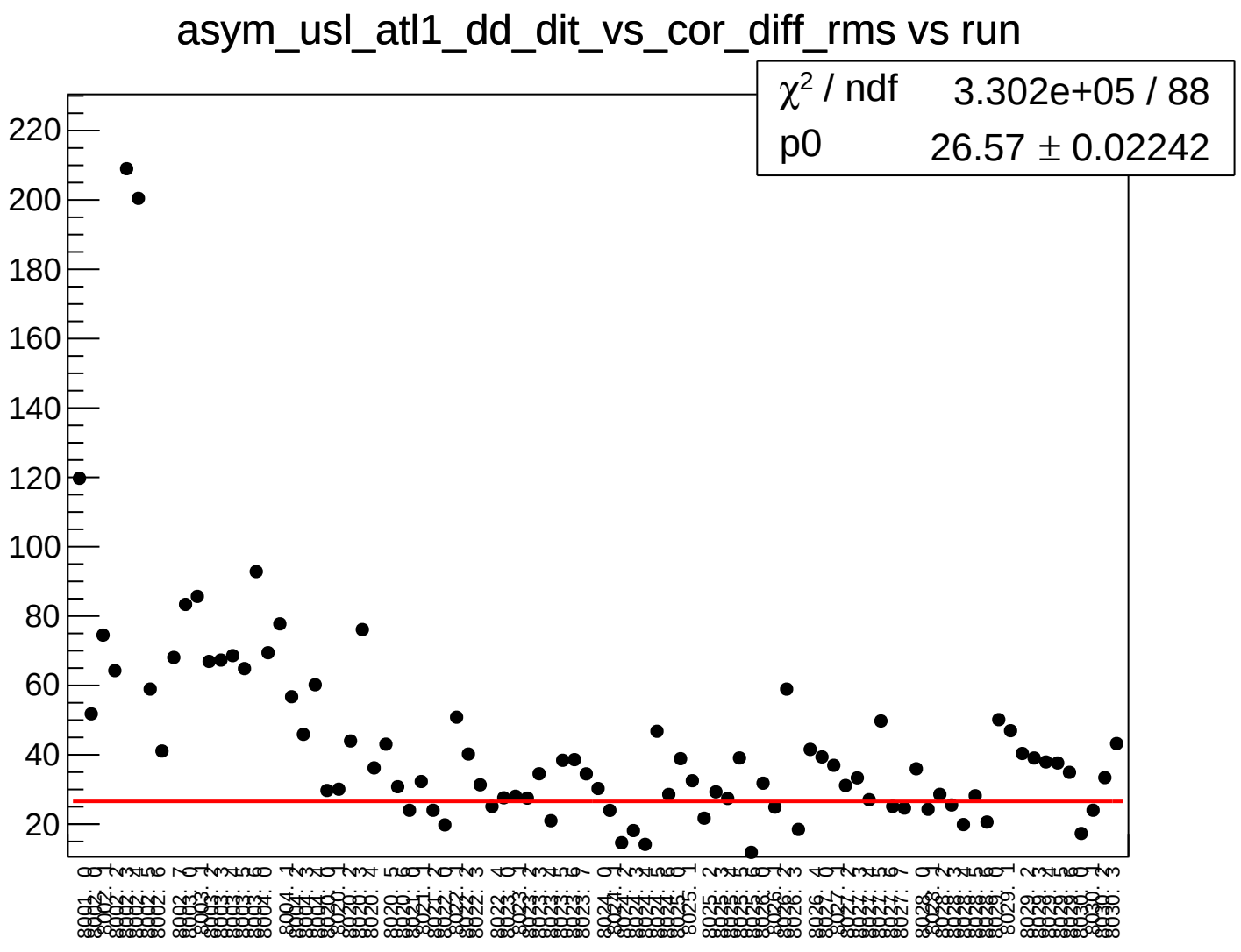

asym_usl_atl1_dd_rms vs run
χ² / ndf 8217 / 88
p0 1232 ± 0.9376
1500
1450
1400
1350
1300
1250
1200
1150

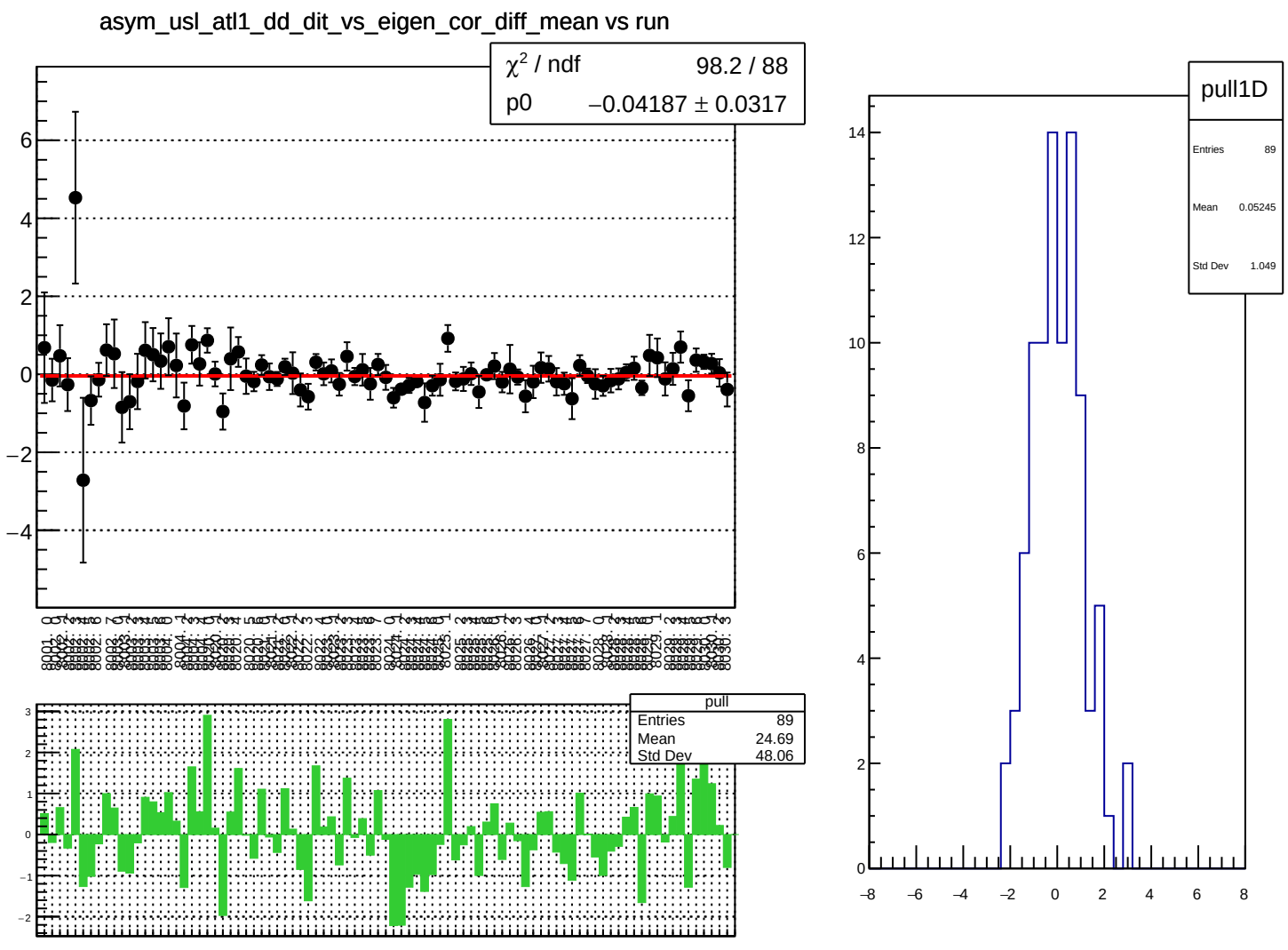

asym_usl_atl1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 101.6 / 88
p0 6.658e−14 ± 7.138e−14
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 89
Mean −70.45
Std Dev 0
2
1
0
−1
−2

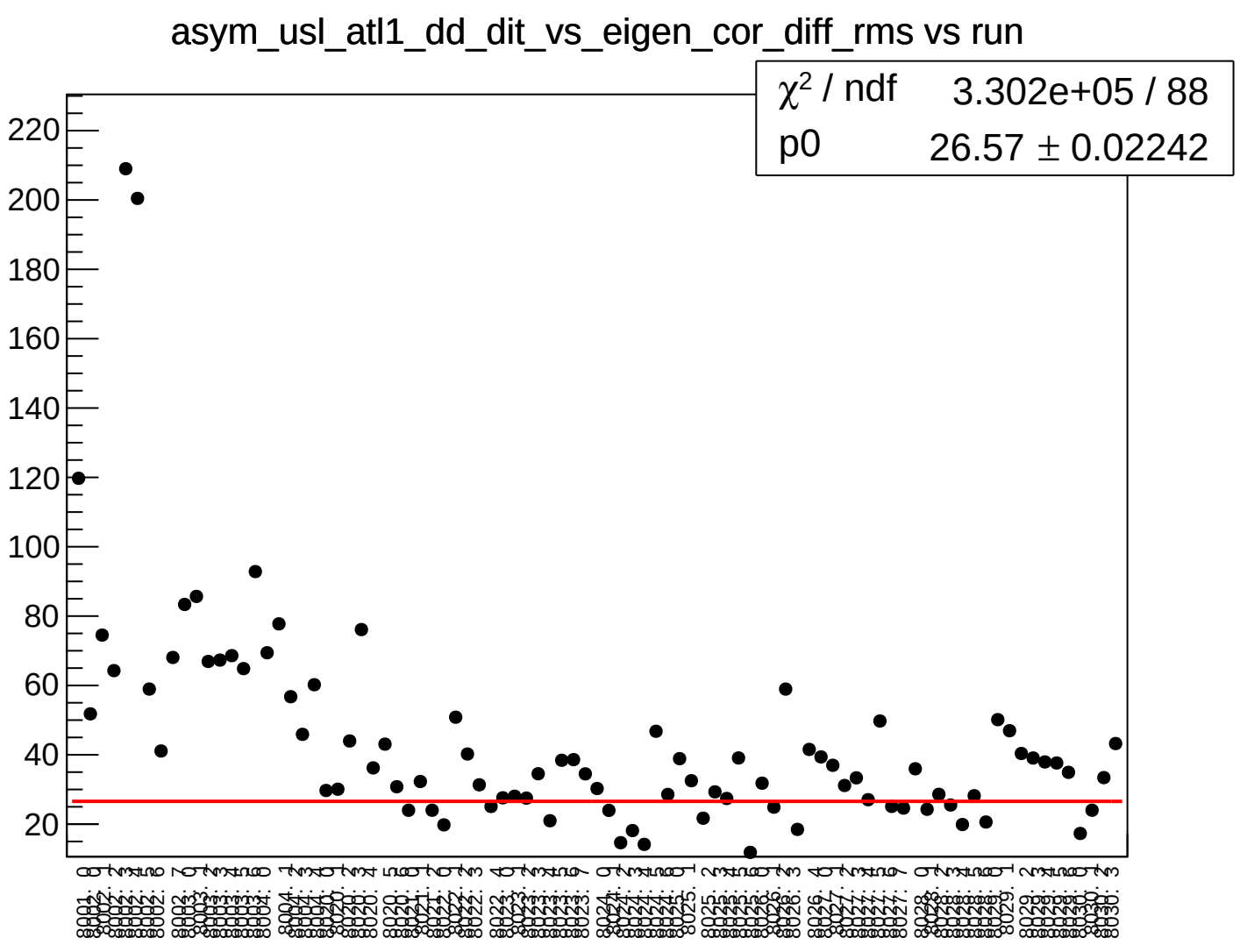

pull1D
Entries 89
Mean 0.02688
Std Dev 1.068
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

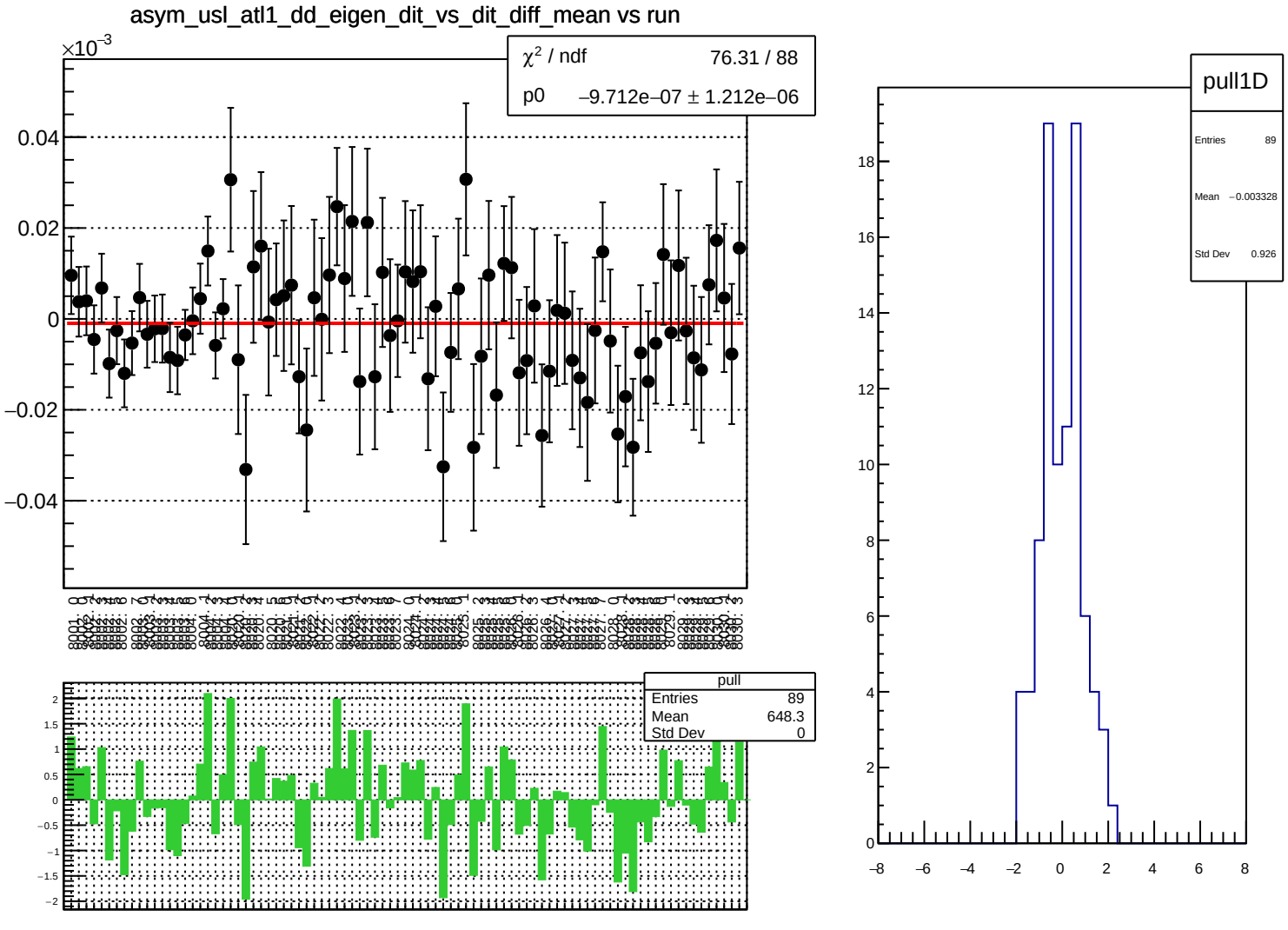

asym_usl_atl1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.942e+05 / 88
p0 4.344e−11 ± 5.048e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

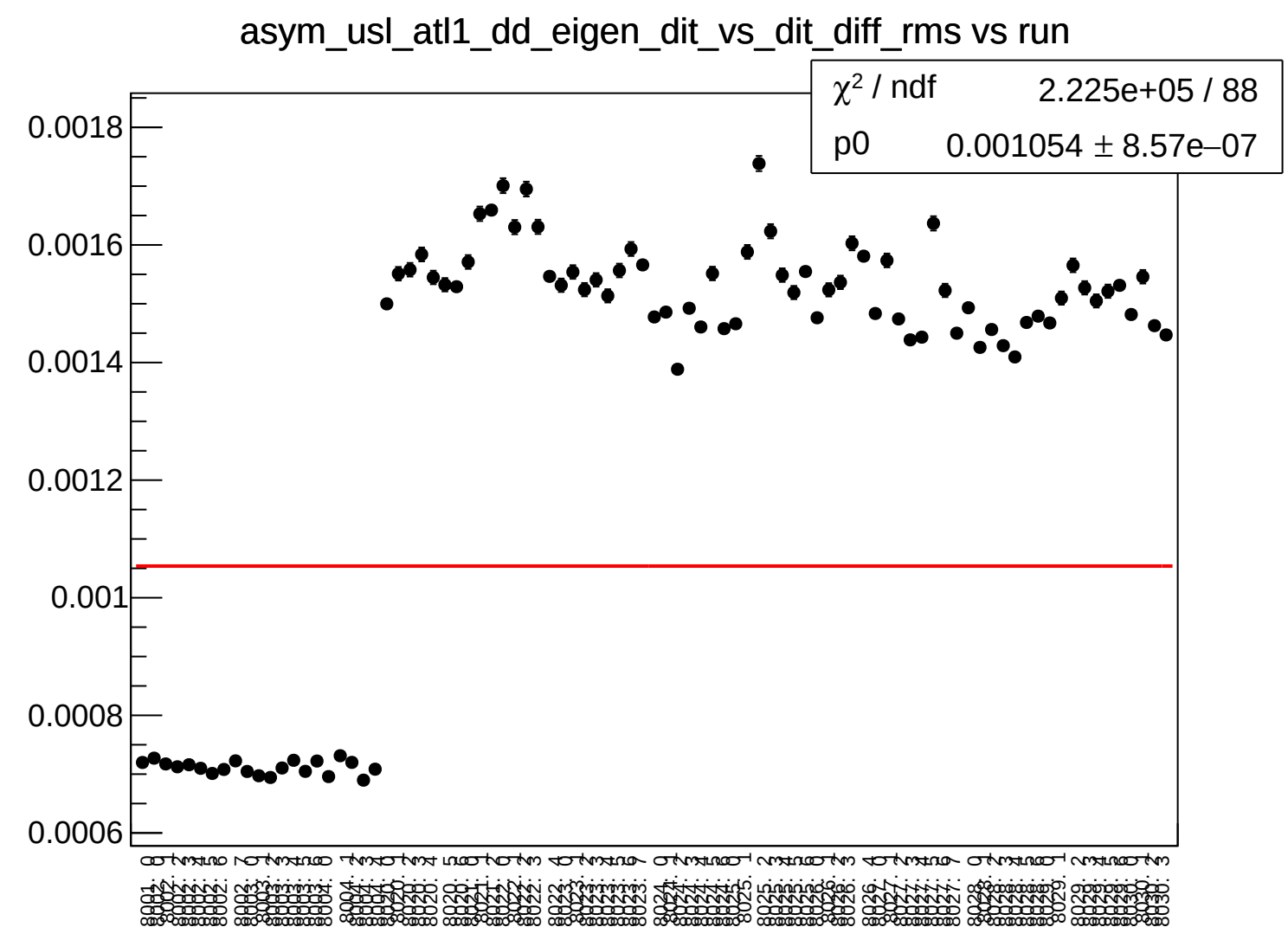

asym_usl_atl1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 98.2 / 88
p0 −0.04187 ± 0.0317
pull
Entries 89
Mean 24.69
Std Dev 48.06
pull1D
Entries 89
Mean 0.05245
Std Dev 1.049

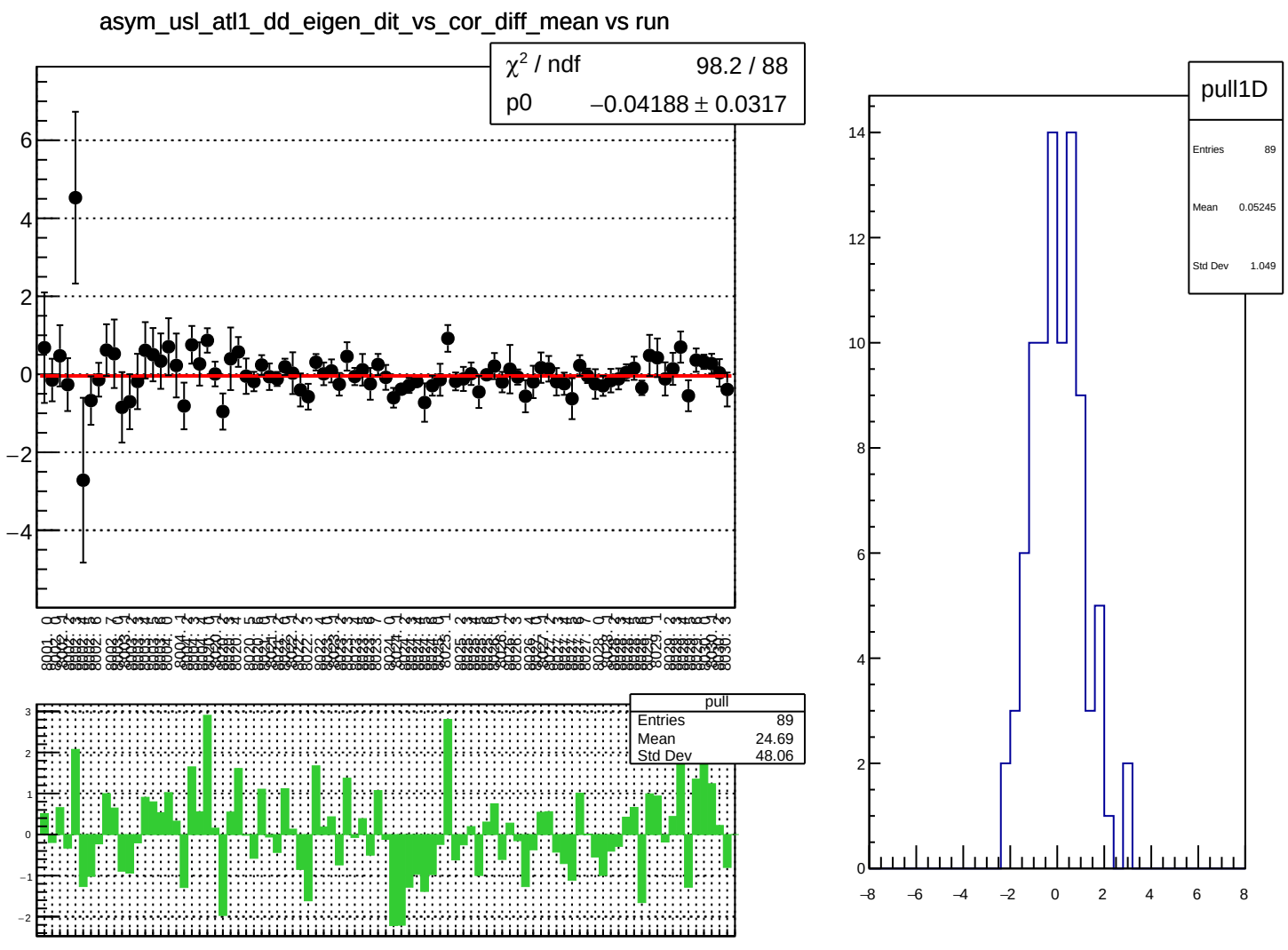

asym_usl_atl1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.302e+05 / 88
p0 26.57 ± 0.02242
220
200
180
160
140
120
100
80
60
40
20

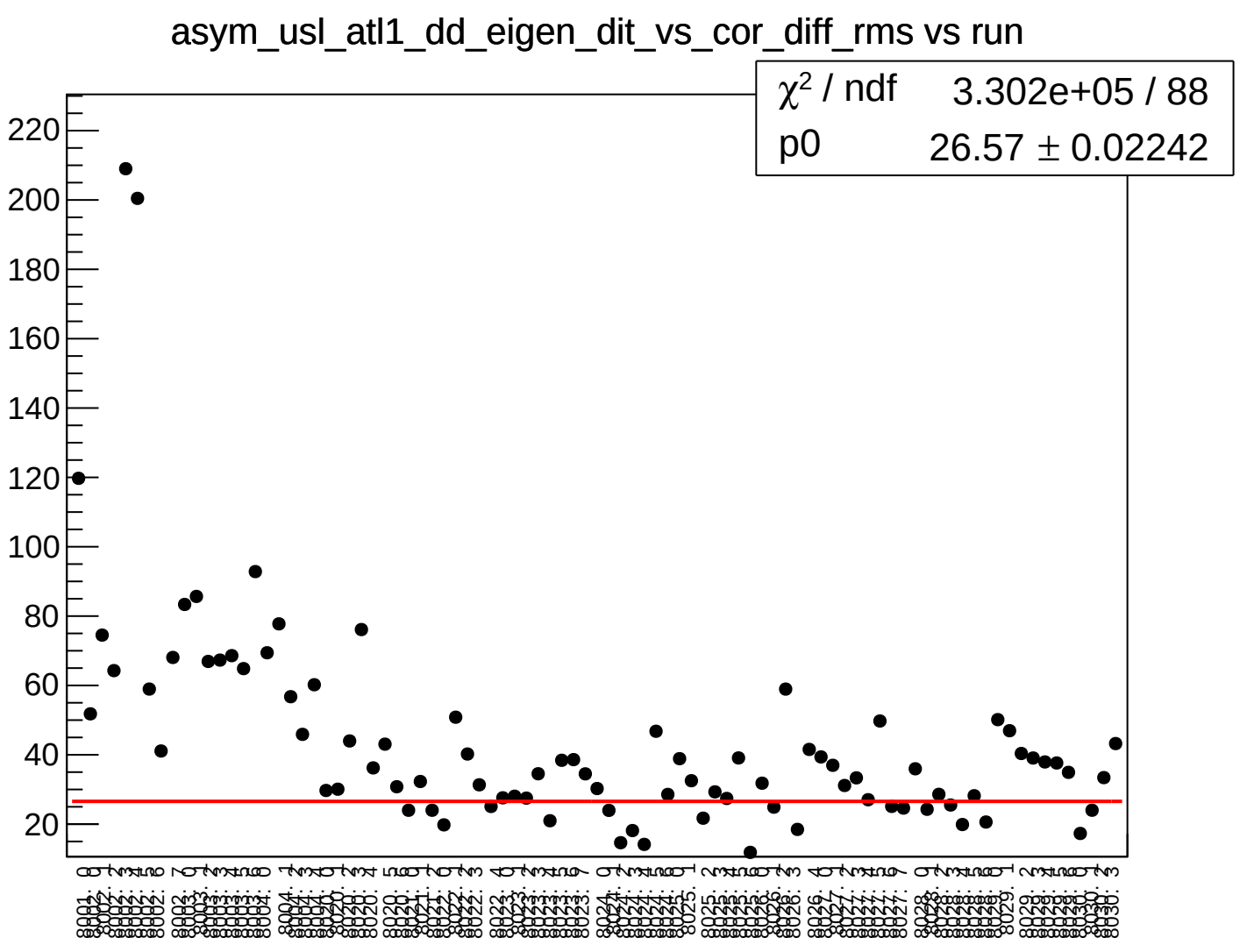

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.2 / 88
p0 −0.04187 ± 0.0317
pull
Entries 89
Mean 24.69
Std Dev 48.06
pull1D
Entries 89
Mean 0.05245
Std Dev 1.049

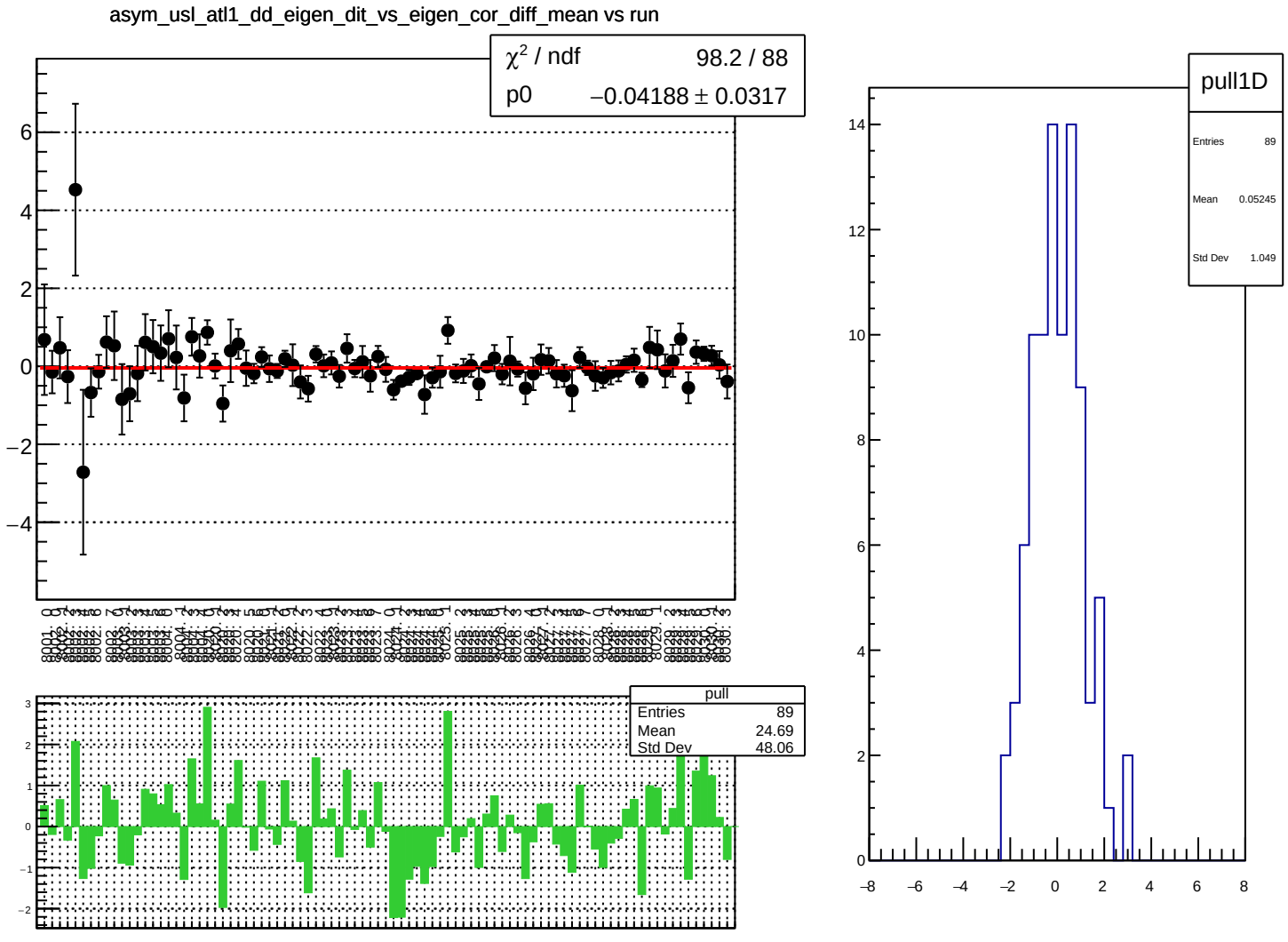

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.302e+05 / 88
p0 26.57 ± 0.02242
220
200
180
160
140
120
100
80
60
40
20

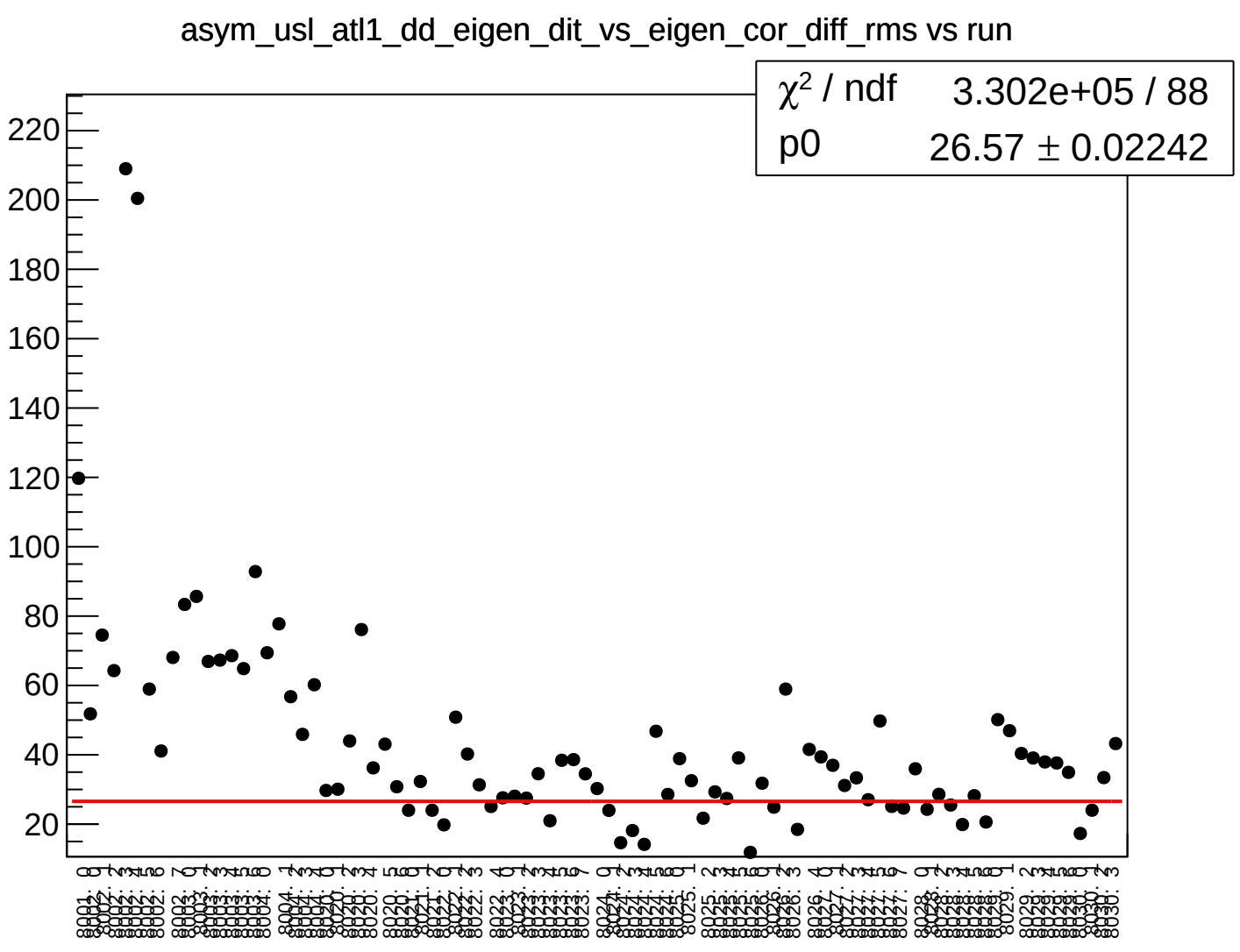

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.31 / 88
p0 −9.712e−07 ± 1.212e−06
0.04
0.02
0
−0.02
−0.04
pull
Entries 89
Mean 648.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean −0.003328
Std Dev 0.926
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

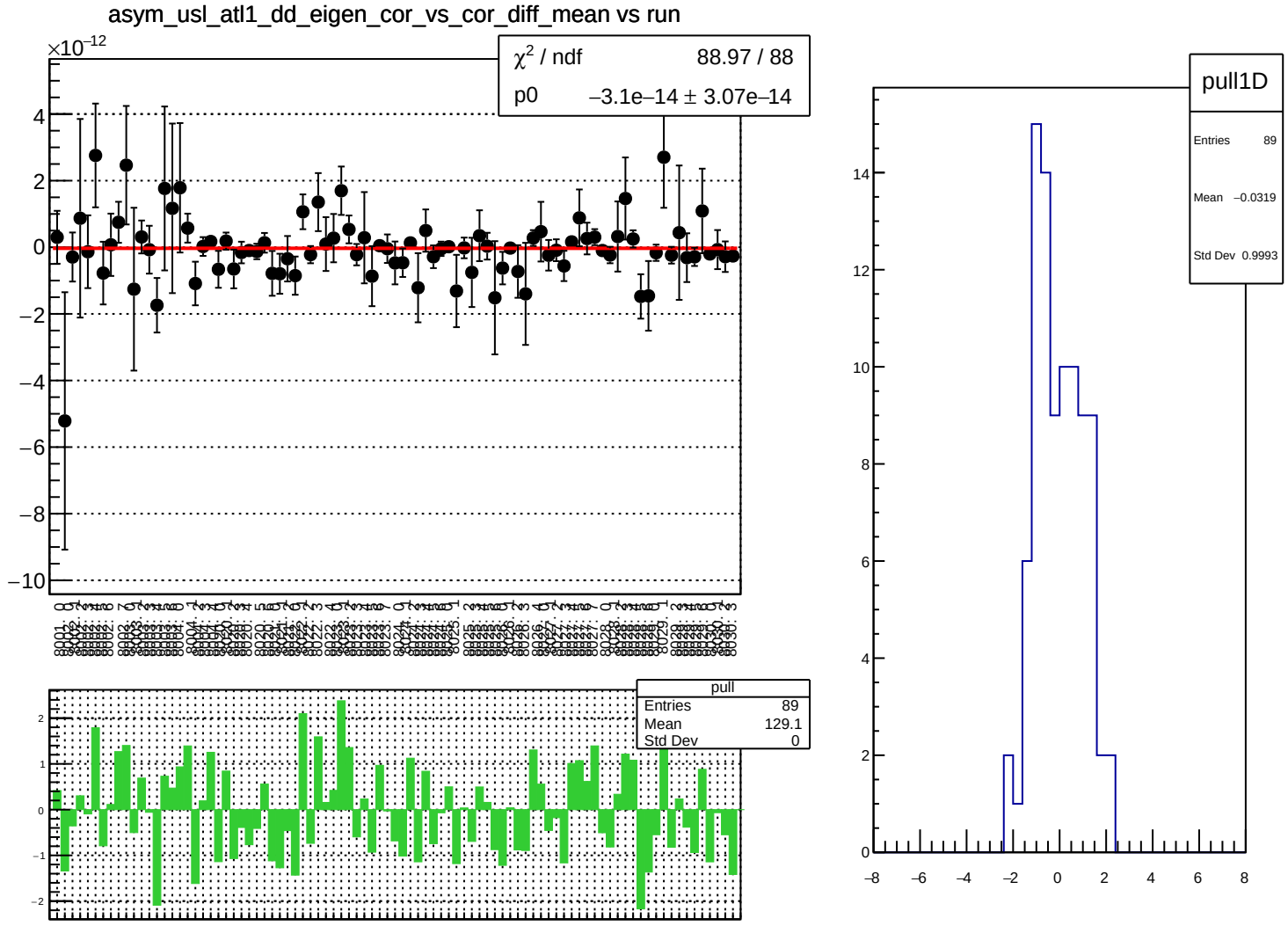

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.225e+05 / 88
p0 0.001054 ± 8.57e–07
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006

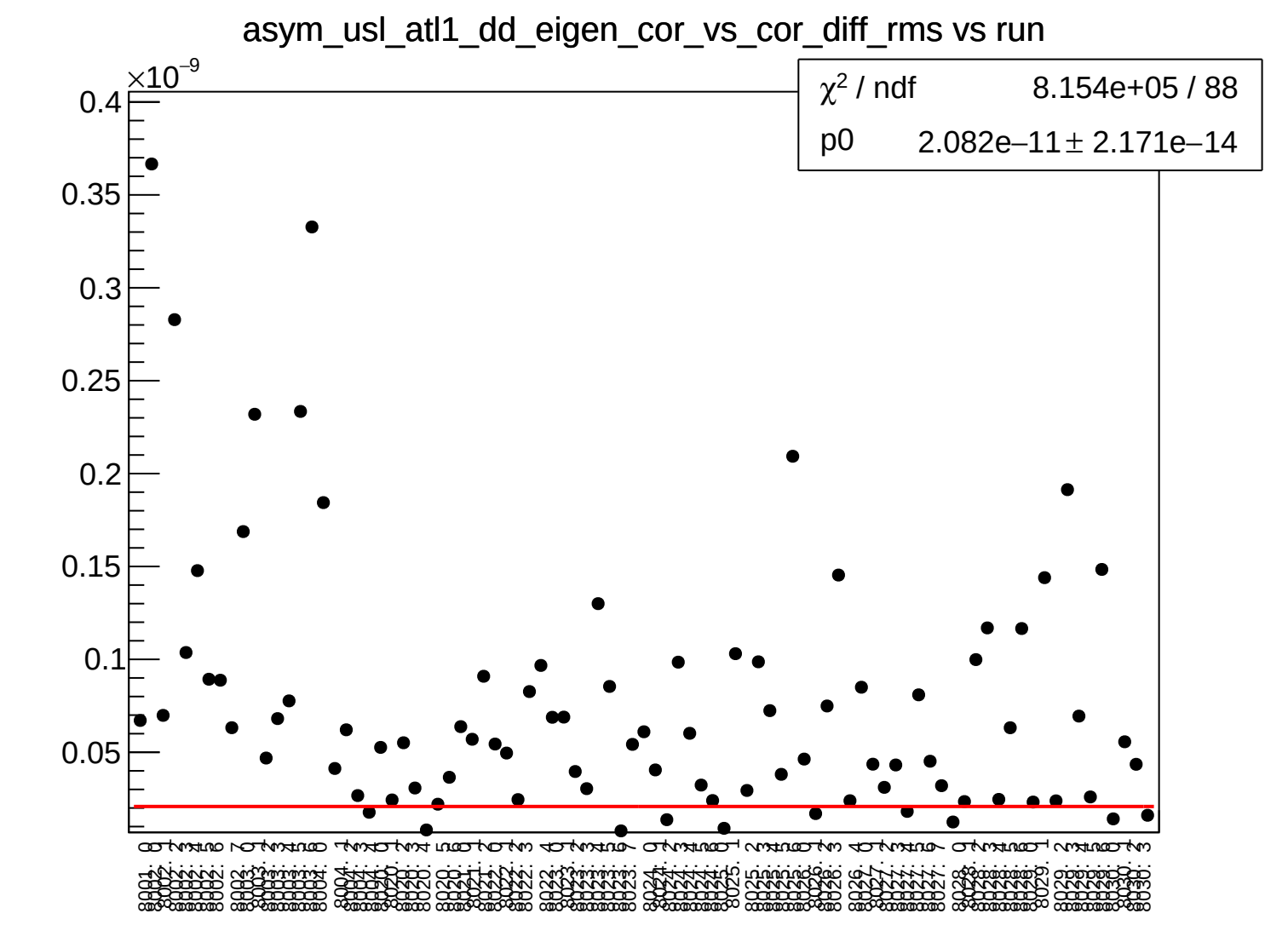

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 98.2 / 88
p0 −0.04188 ± 0.0317
pull
Entries 89
Mean 24.69
Std Dev 48.06
pull1D
Entries 89
Mean 0.05245
Std Dev 1.049

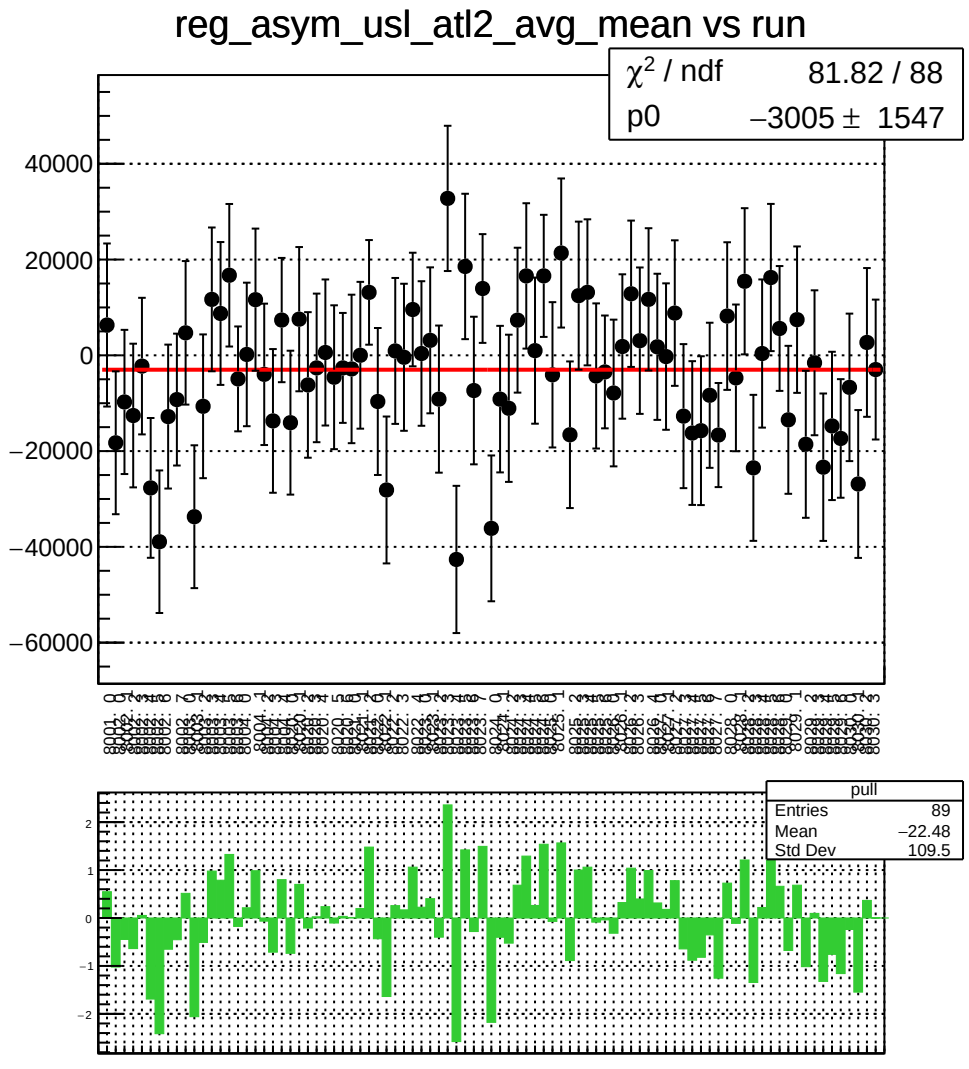

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.302e+05 / 88
p0 26.57 ± 0.02242
220
200
180
160
140
120
100
80
60
40
20

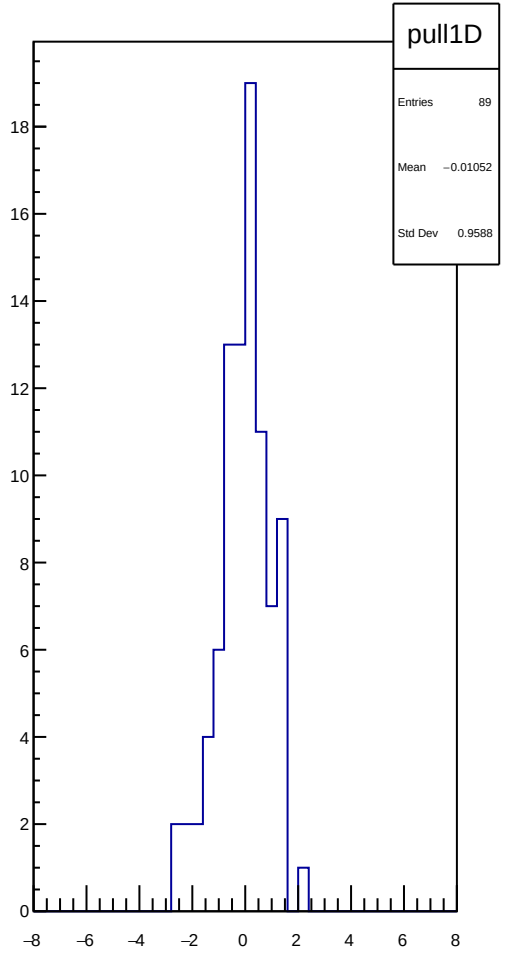

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.2 / 88
p0 −0.04188 ± 0.0317
pull
Entries 89
Mean 24.69
Std Dev 48.06
pull1D
Entries 89
Mean 0.05245
Std Dev 1.049

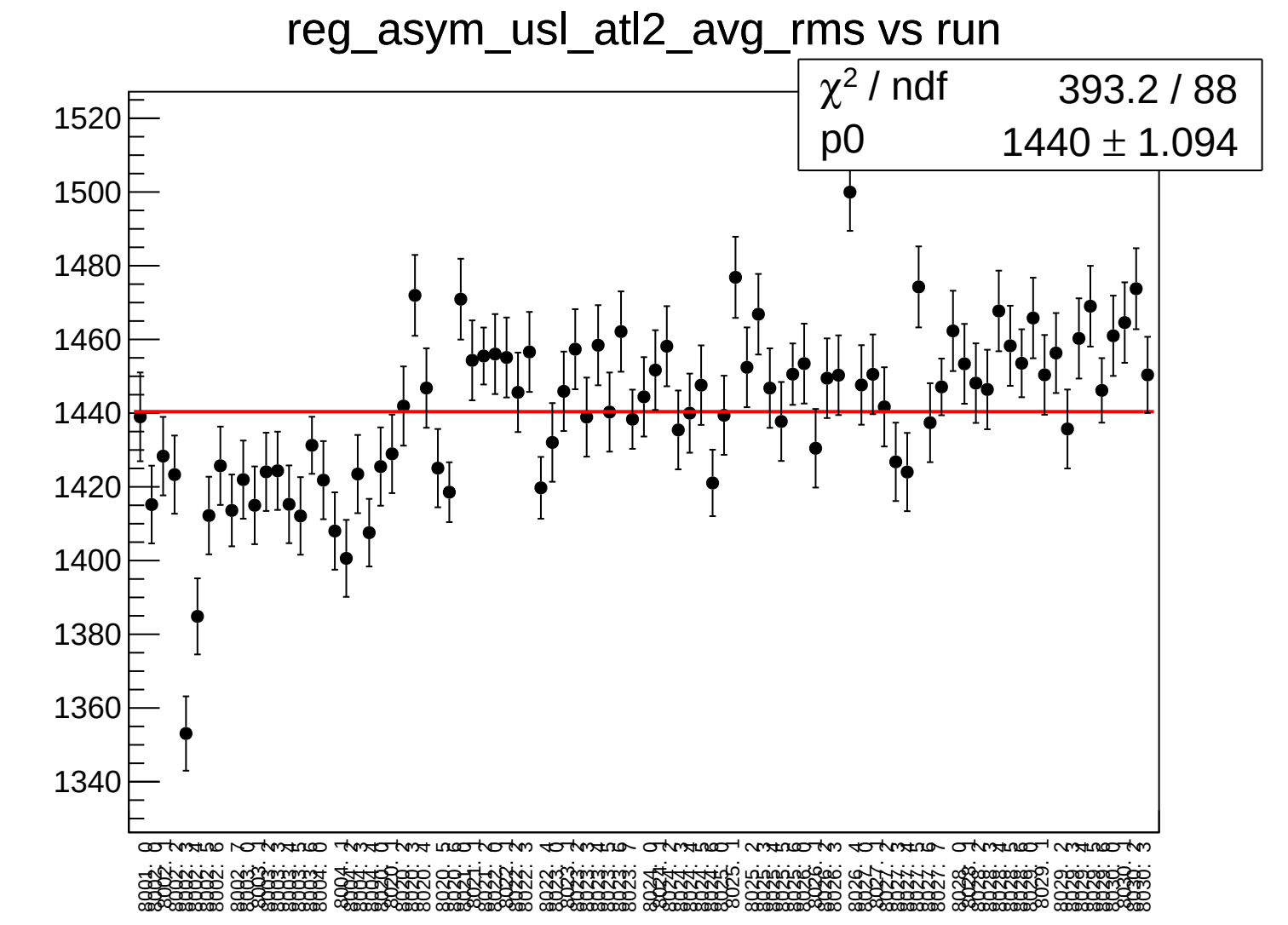

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.302e+05 / 88
p0 26.57 ± 0.02242
220
200
180
160
140
120
100
80
60
40
20

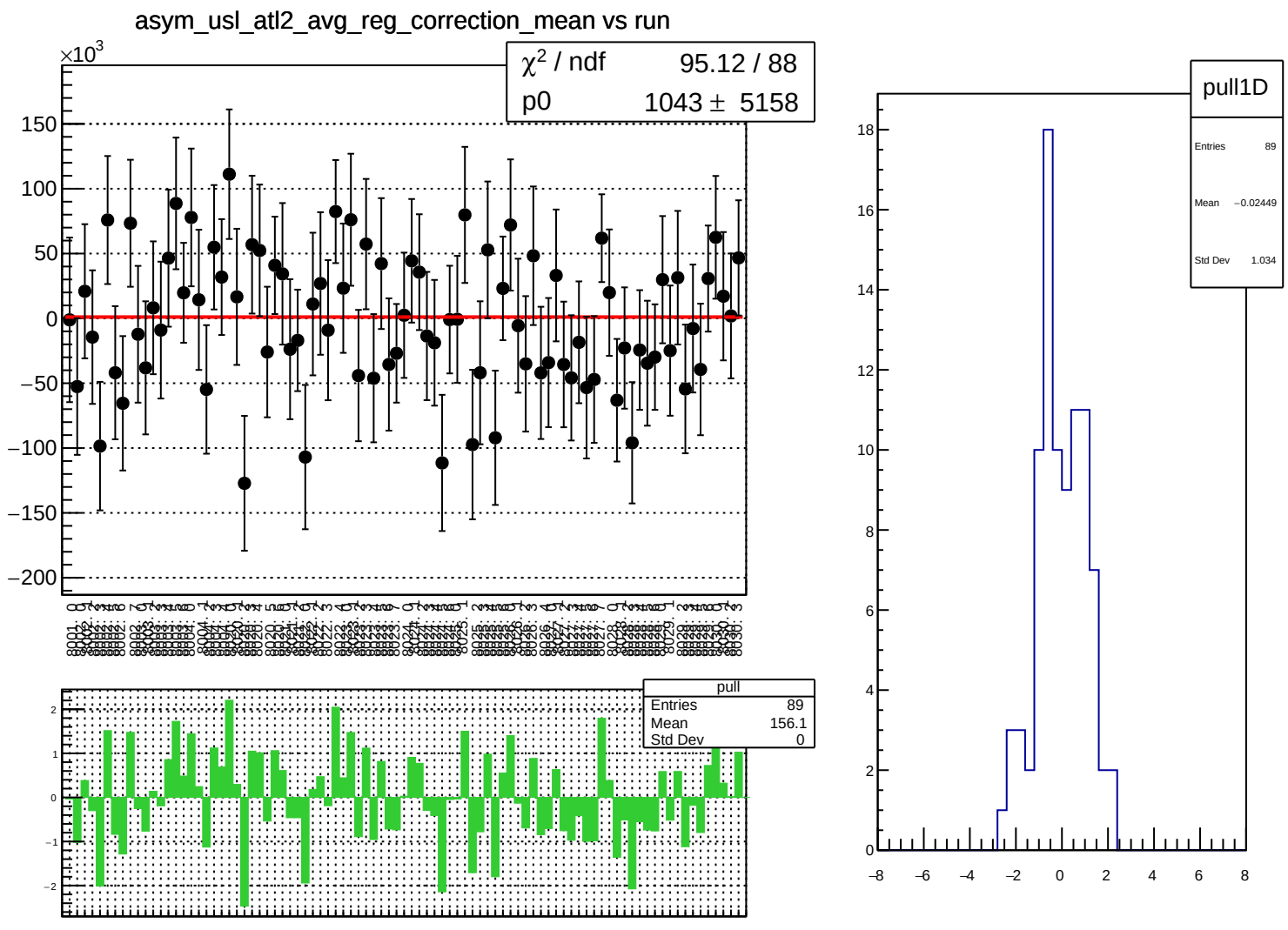

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.97 / 88
p0 −3.1e−14 ± 3.07e−14
pull
Entries 89
Mean 129.1
Std Dev 0
pull1D
Entries 89
Mean −0.0319
Std Dev 0.9993

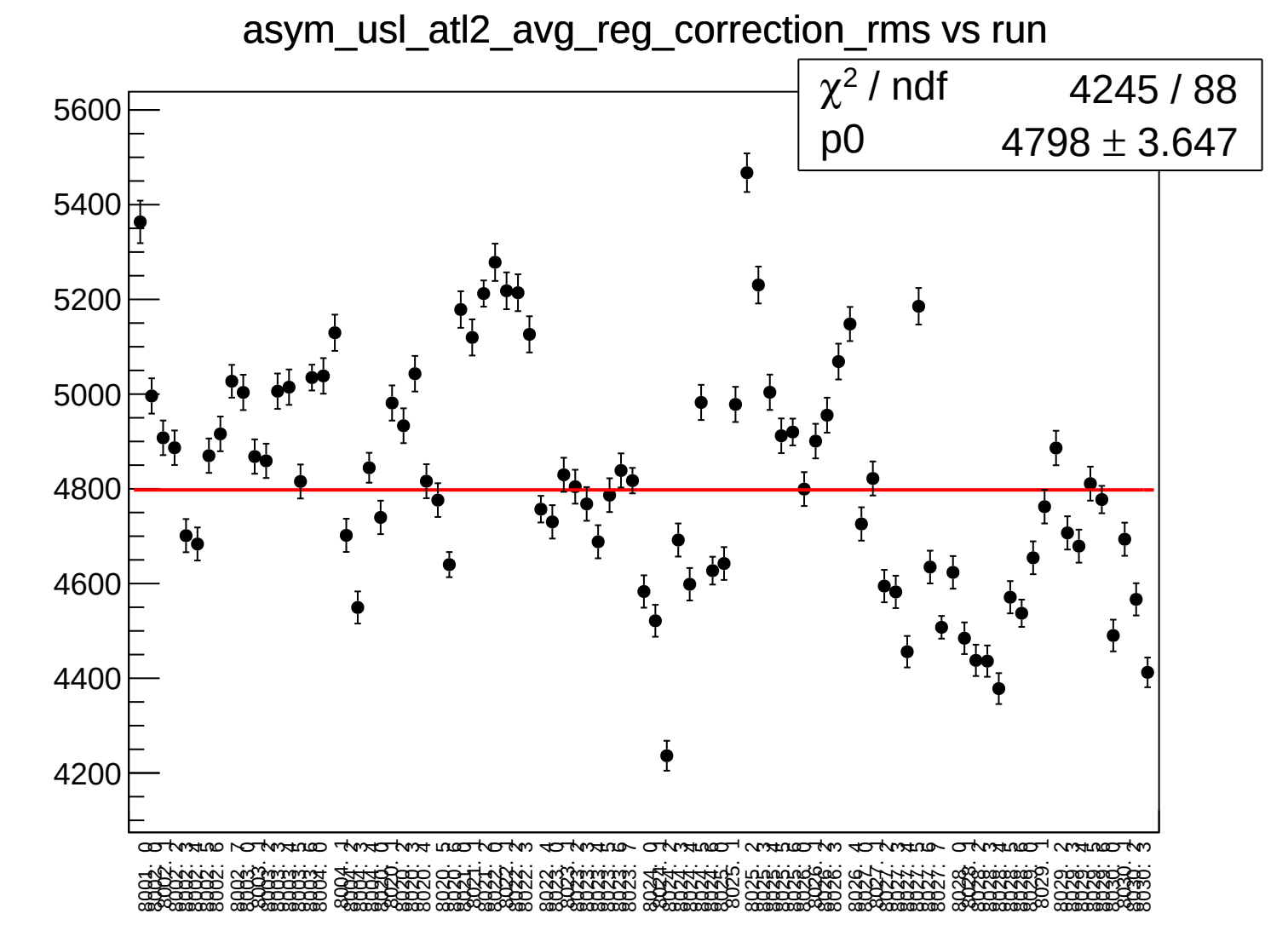

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.154e+05 / 88
p0 2.082e−11 ± 2.171e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

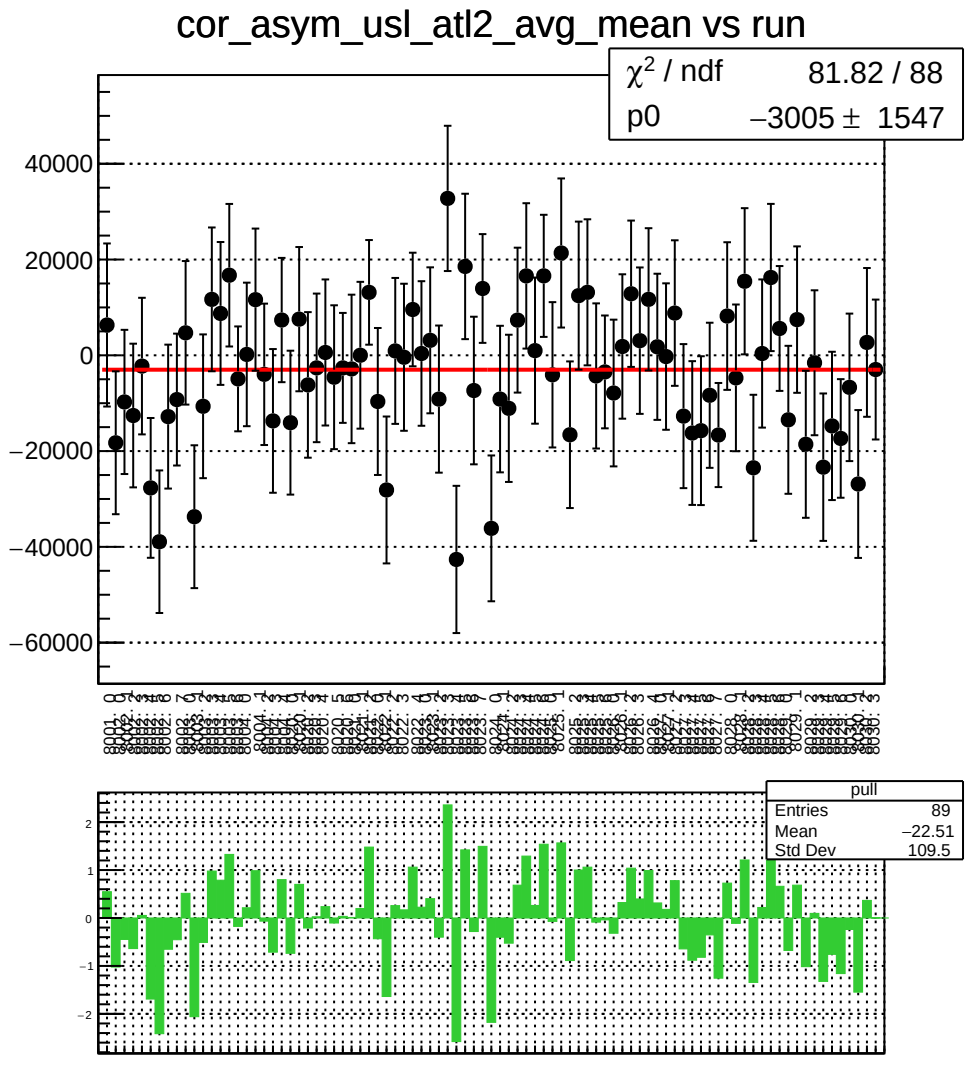

reg_asym_usl_atl2_avg_mean vs run
χ² / ndf 81.82 / 88
p0 −3005 ± 1547
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −22.48
Std Dev 109.5
2
1
0
−1
−2

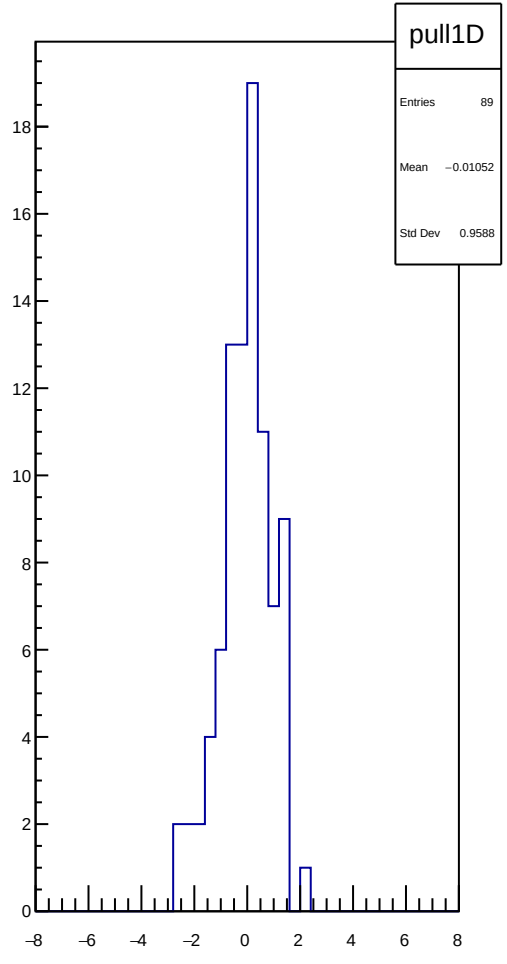

pull1D
Entries 89
Mean −0.01052
Std Dev 0.9588
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

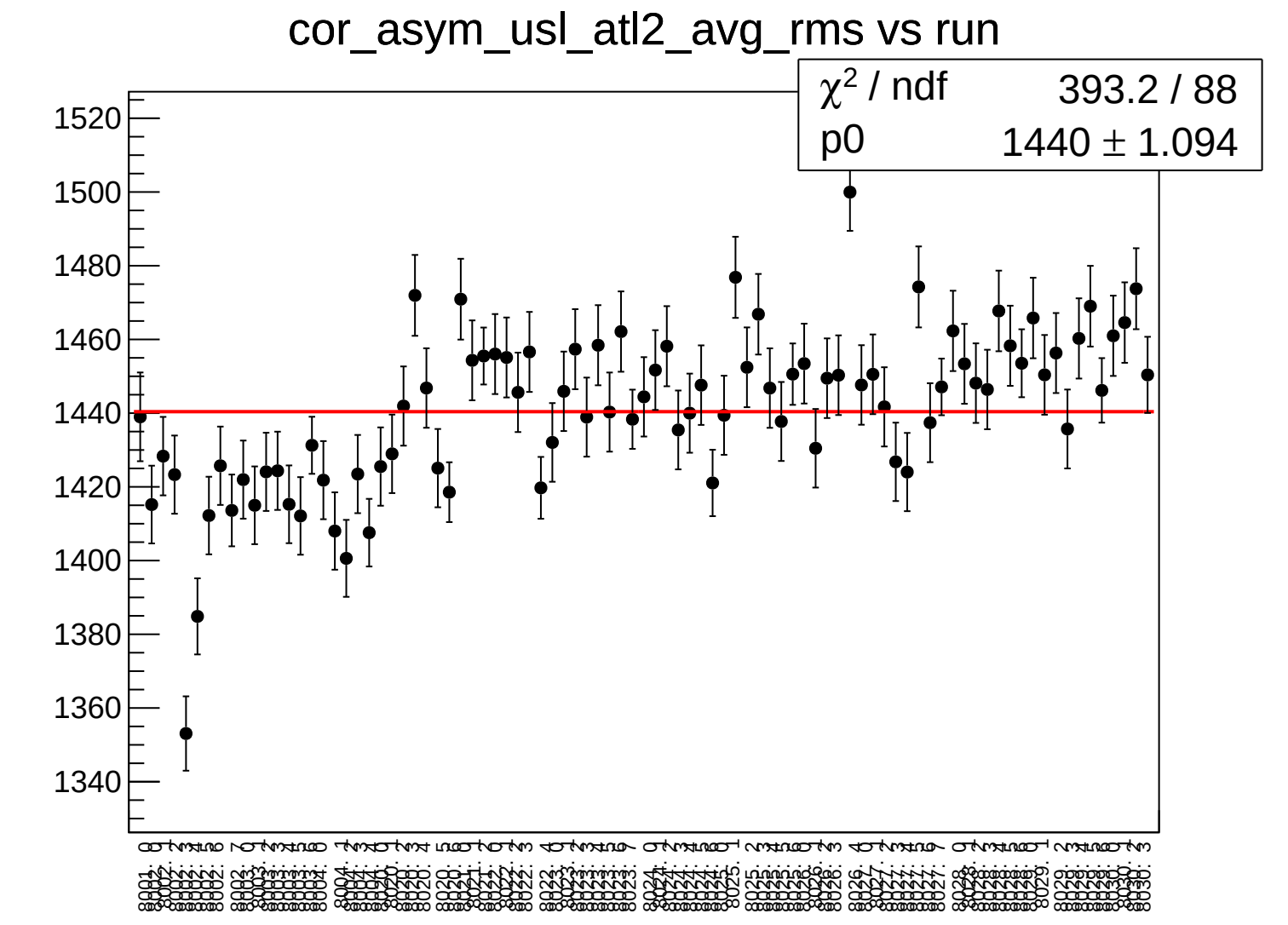

reg_asym_usl_atl2_avg_rms vs run
χ^2 / ndf 393.2 / 88
p0 1440 ± 1.094
1520
1500
1480
1460
1440
1420
1400
1380
1360
1340

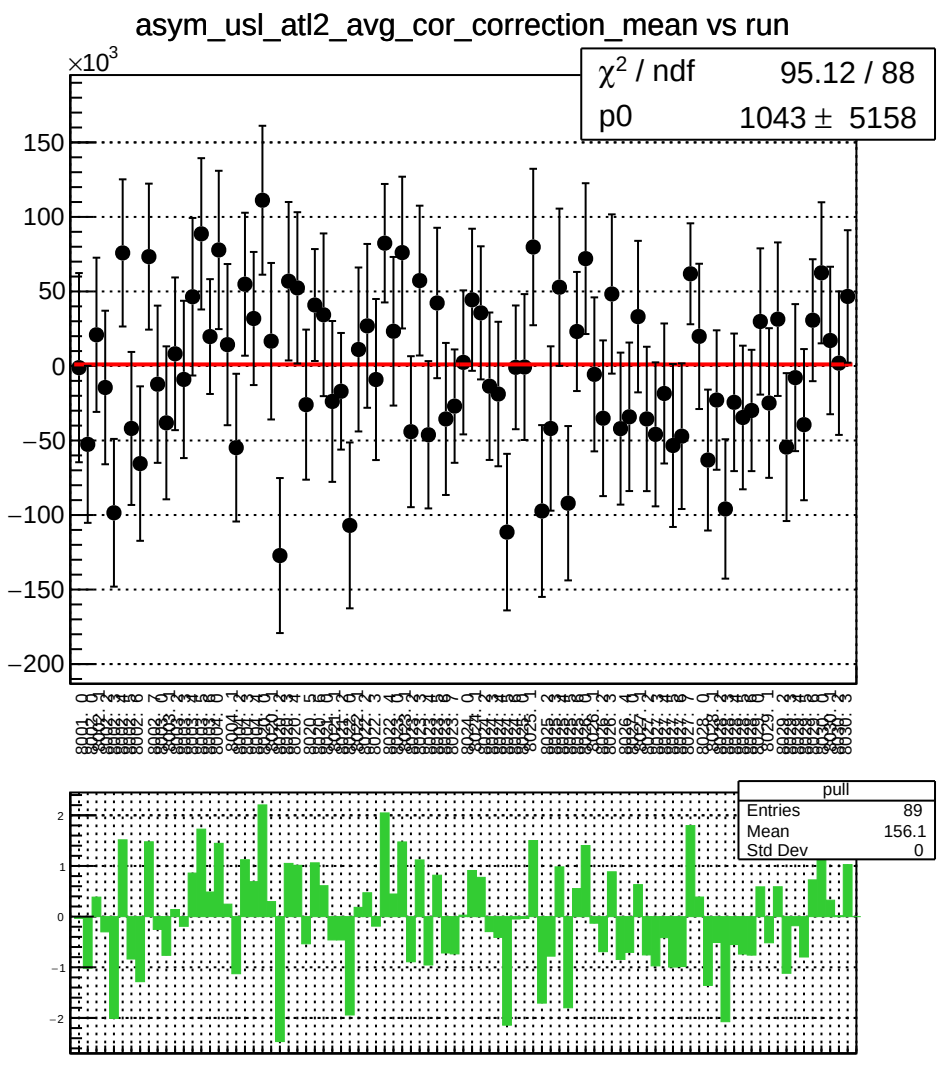

asym_usl_atl2_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 95.12 / 88
p0 1043 ± 5158
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean 156.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.02449
Std Dev 1.034
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

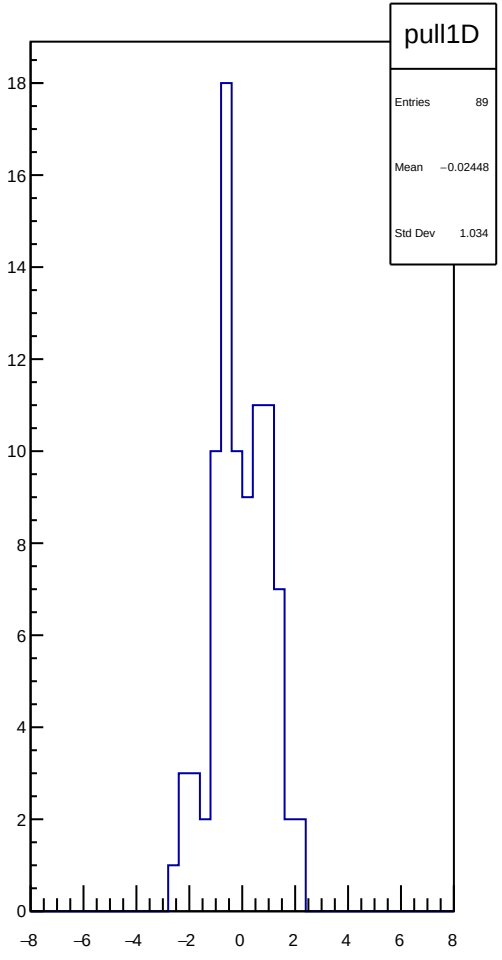

asym_usl_atl2_avg_reg_correction_rms vs run
χ² / ndf 4245 / 88
p0 4798 ± 3.647
5600
5400
5200
5000
4800
4600
4400
4200

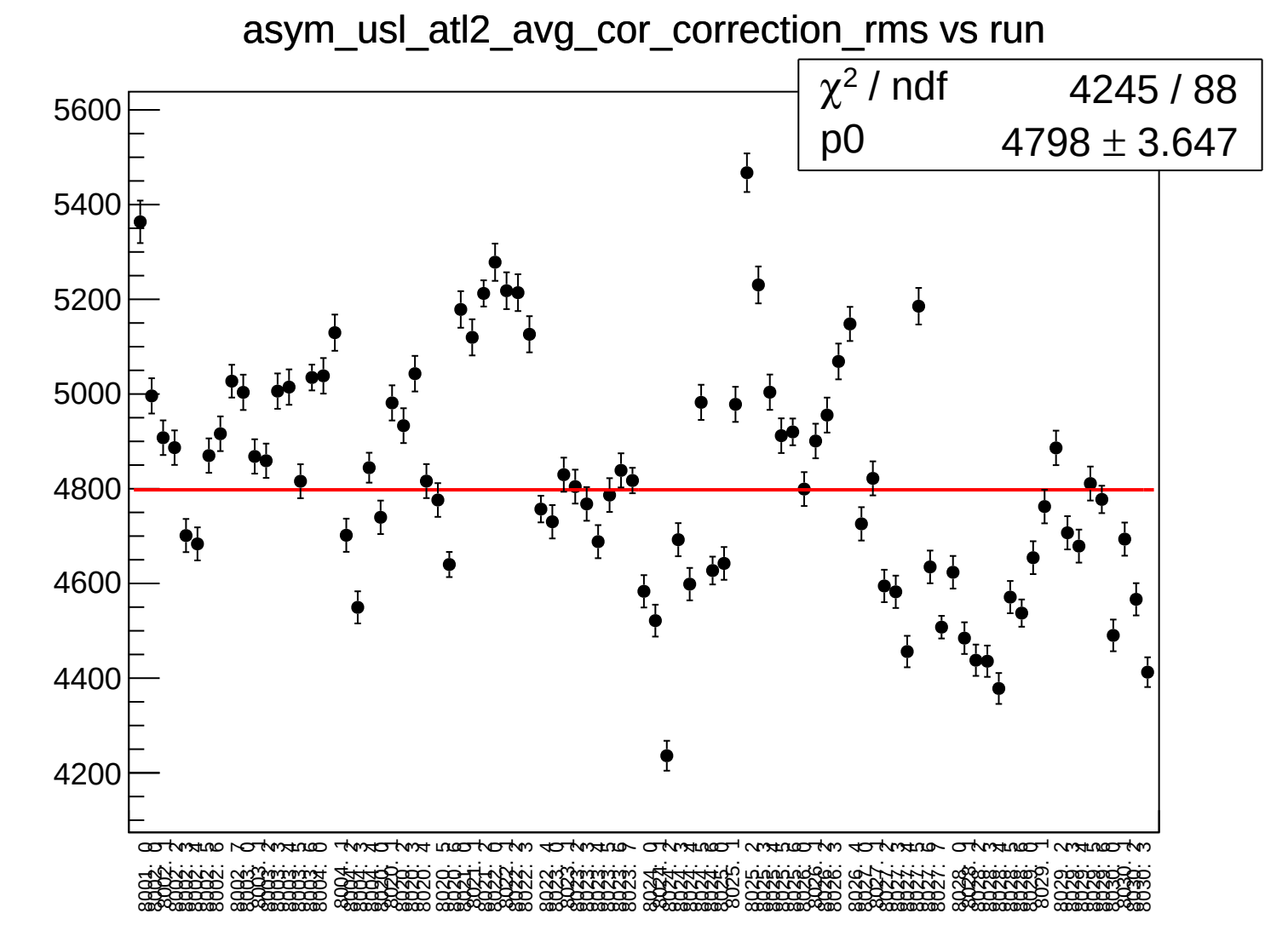

cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 81.82 / 88
p0 −3005 ± 1547
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −22.51
Std Dev 109.5
2
1
0
−1
−2

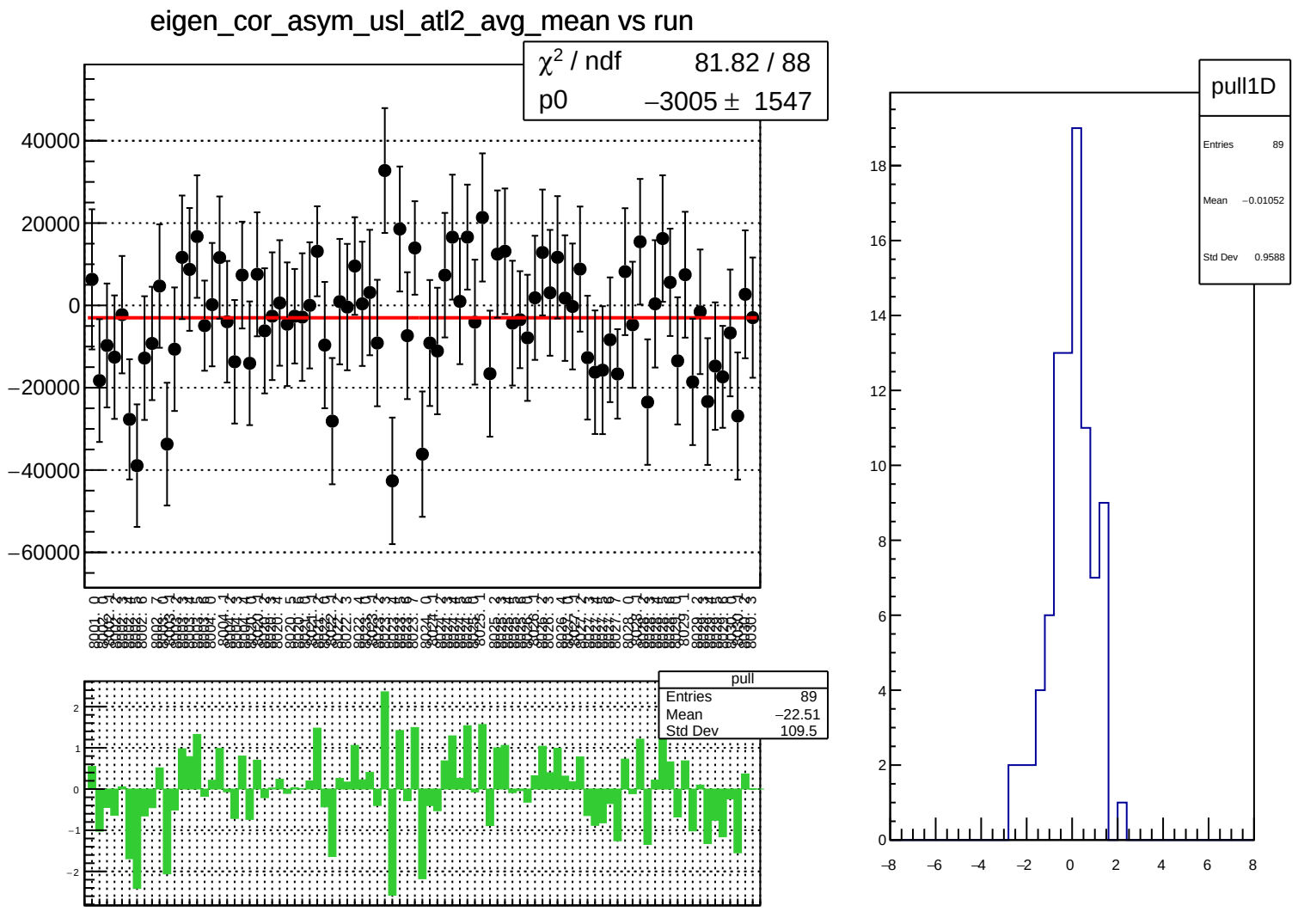

pull1D
Entries 89
Mean −0.01052
Std Dev 0.9588
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

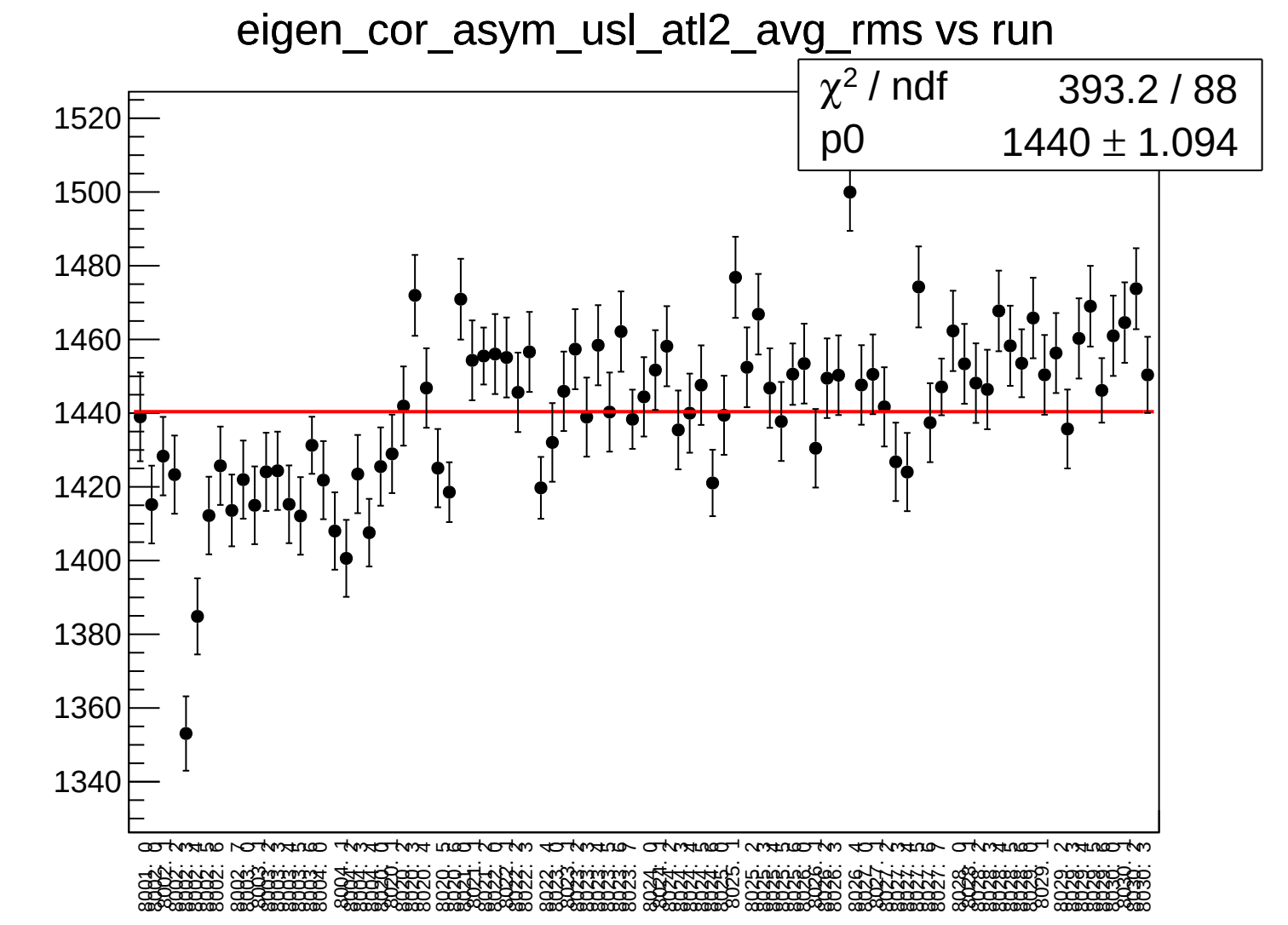

cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 393.2 / 88
p0 1440 ± 1.094
1520
1500
1480
1460
1440
1420
1400
1380
1360
1340

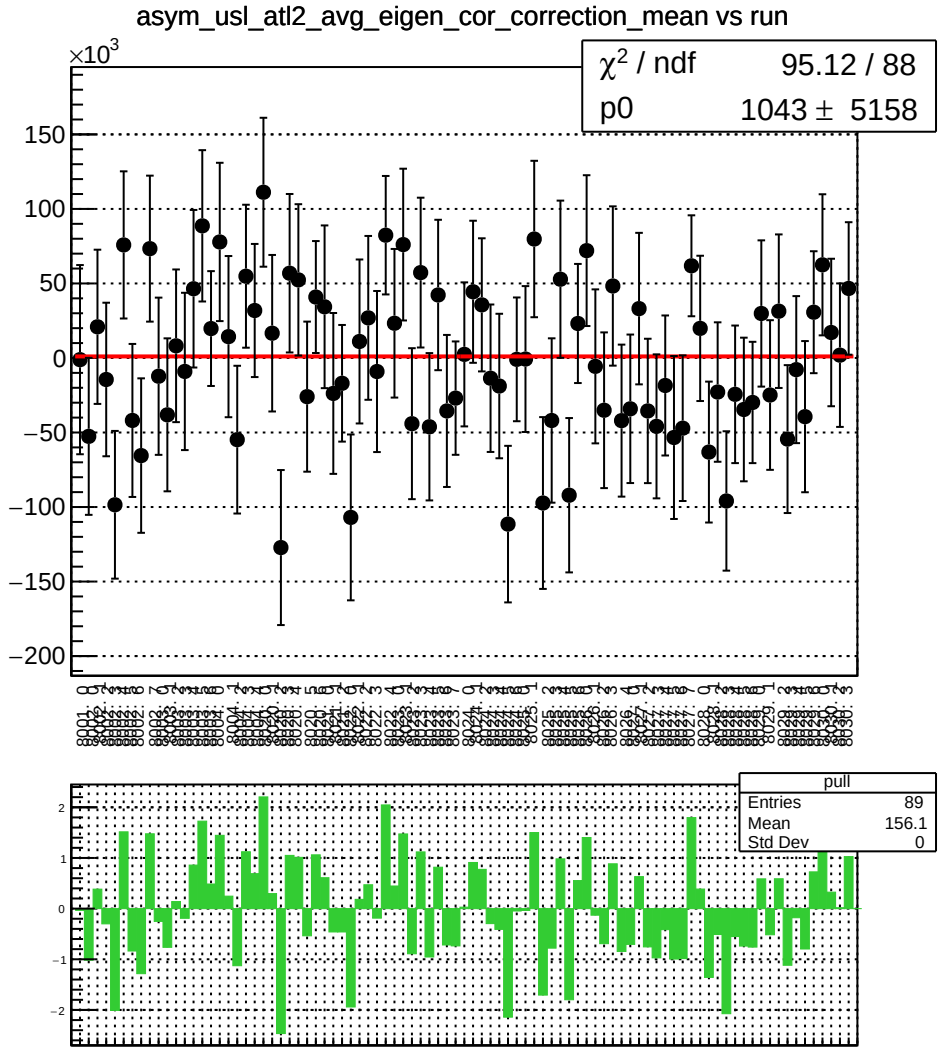

asym_usl_atl2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 95.12 / 88
p0 1043 ± 5158
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean 156.1
Std Dev 0
2
1
0
−1
−2

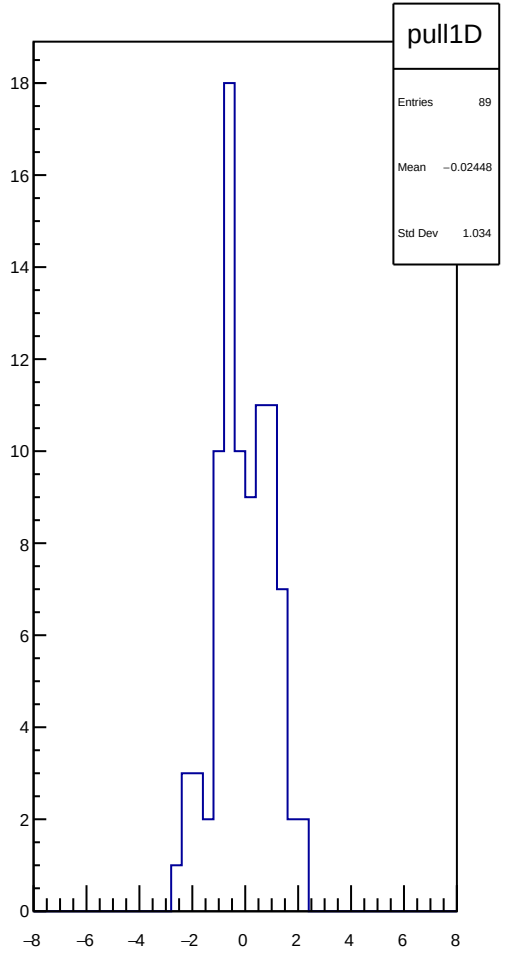

pull1D
Entries 89
Mean −0.02448
Std Dev 1.034
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

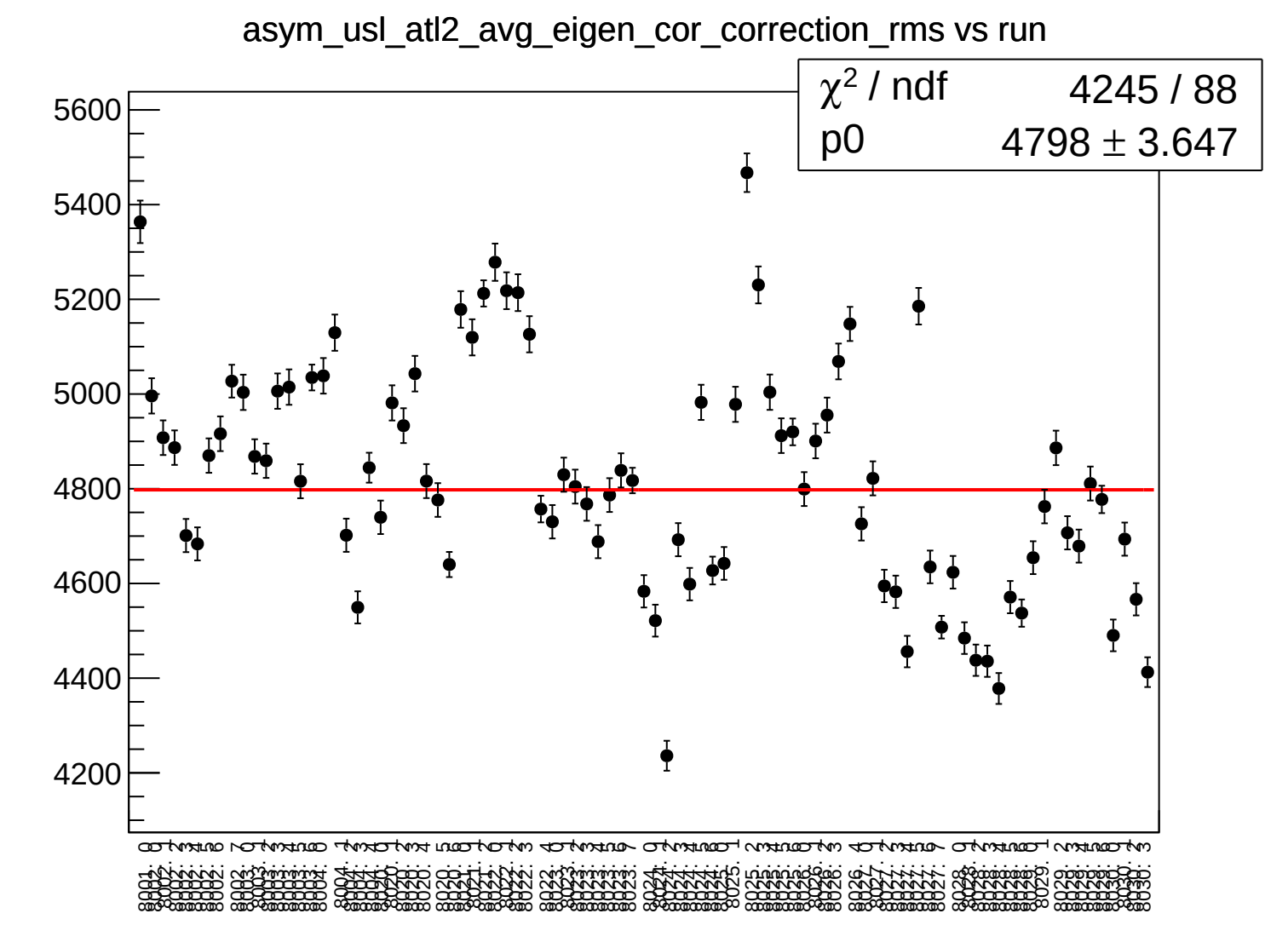

asym_usl_atl2_avg_cor_correction_rms vs run
χ² / ndf 4245 / 88
p0 4798 ± 3.647
5600
5400
5200
5000
4800
4600
4400
4200

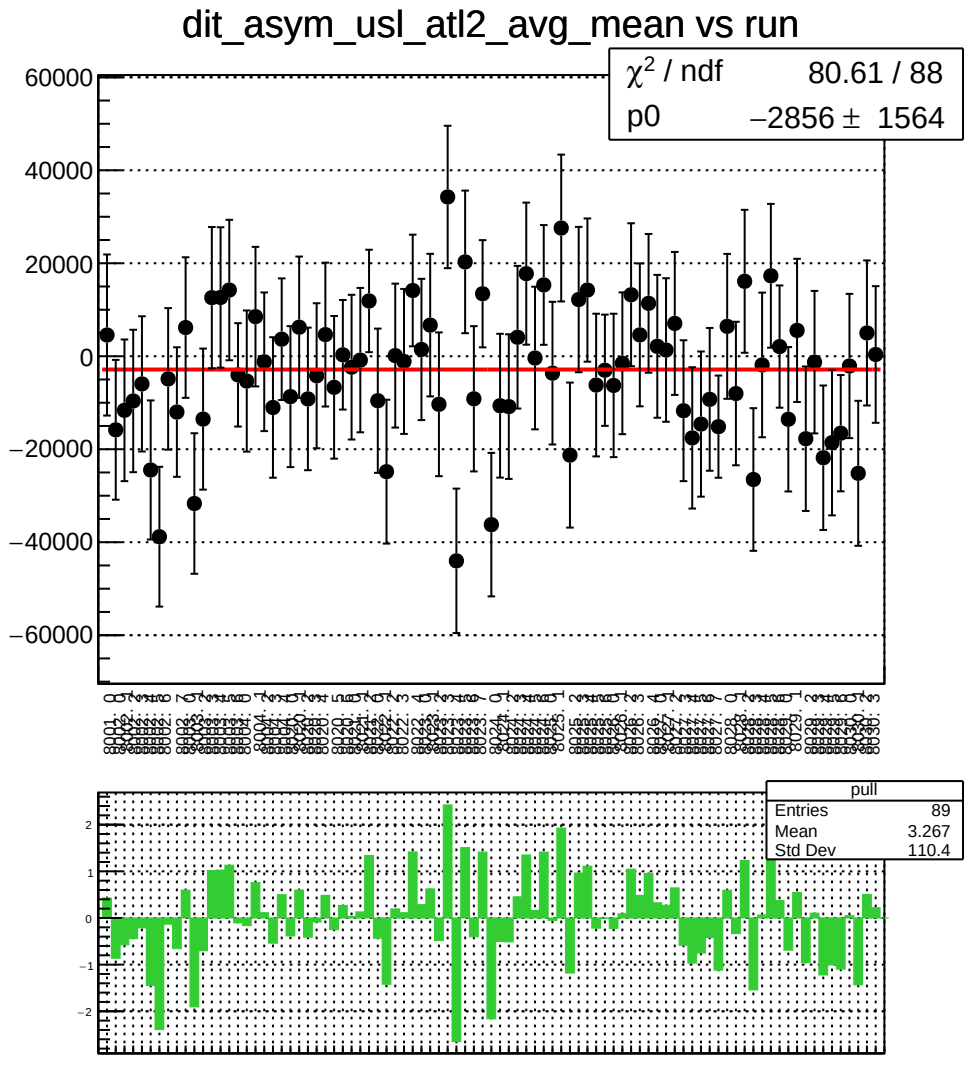

eigen_cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 81.82 / 88
p0 −3005 ± 1547
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −22.51
Std Dev 109.5
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.01052
Std Dev 0.9588
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

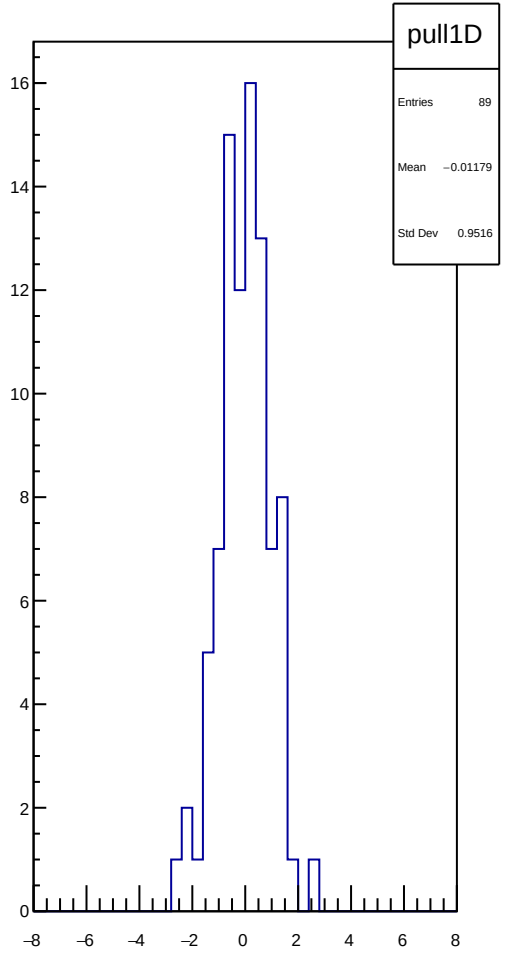

eigen_cor_asym_usl_atl2_avg_rms vs run
χ^2 / ndf 393.2 / 88
p0 1440 ± 1.094
1520
1500
1480
1460
1440
1420
1400
1380
1360
1340

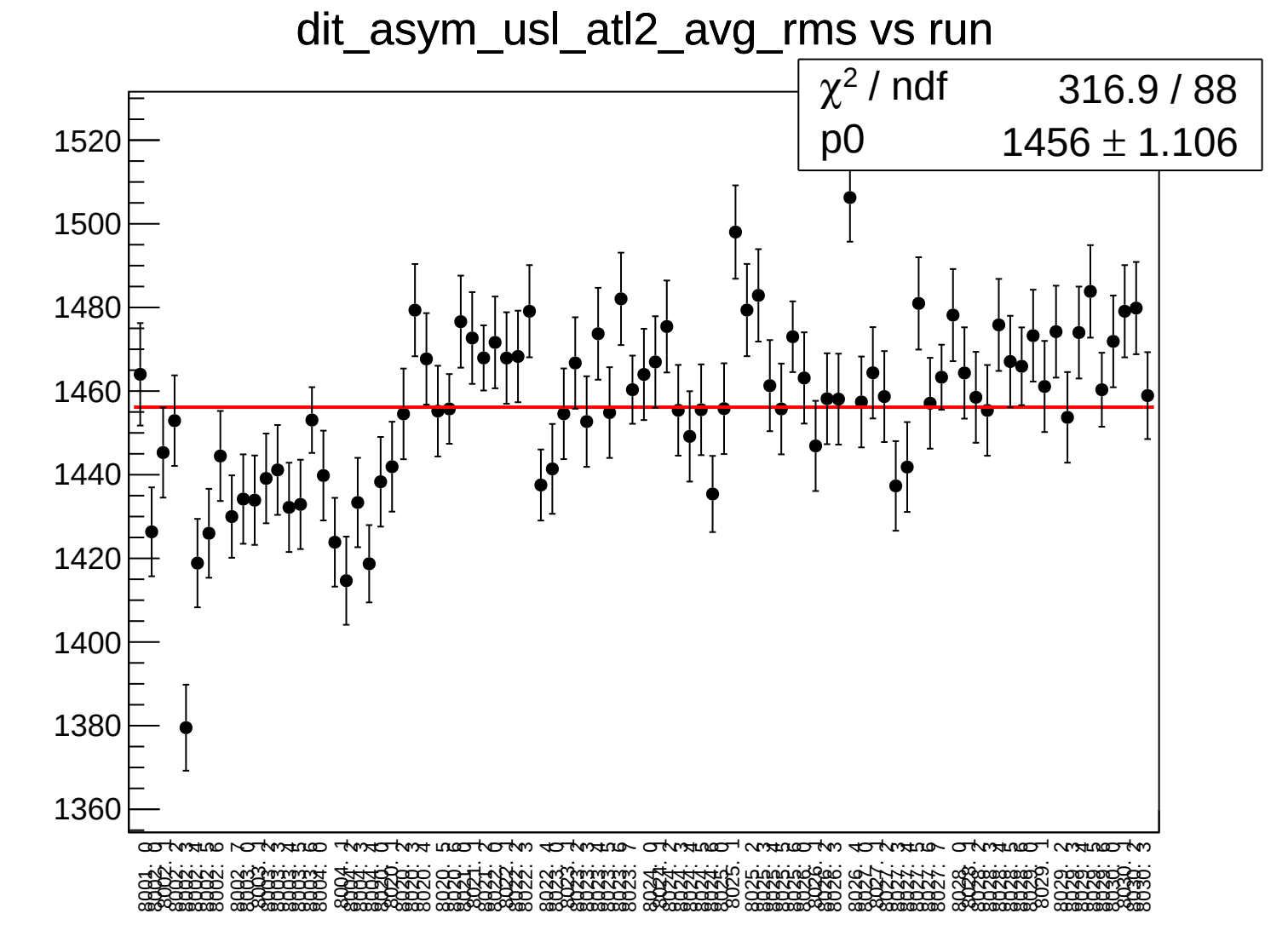

asym_usl_atl2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 95.12 / 88
p0 1043 ± 5158
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean 156.1
Std Dev 0
2
1
0
−1
−2

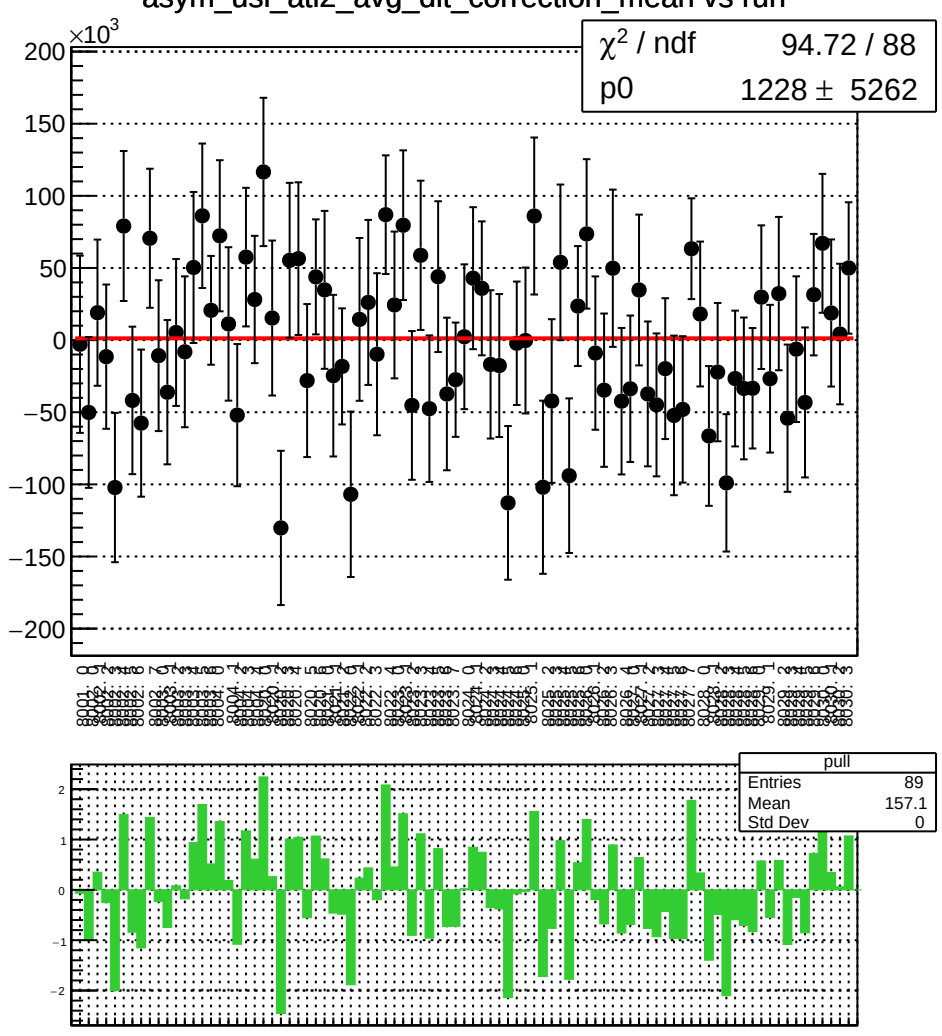

pull1D
Entries 89
Mean −0.02448
Std Dev 1.034
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

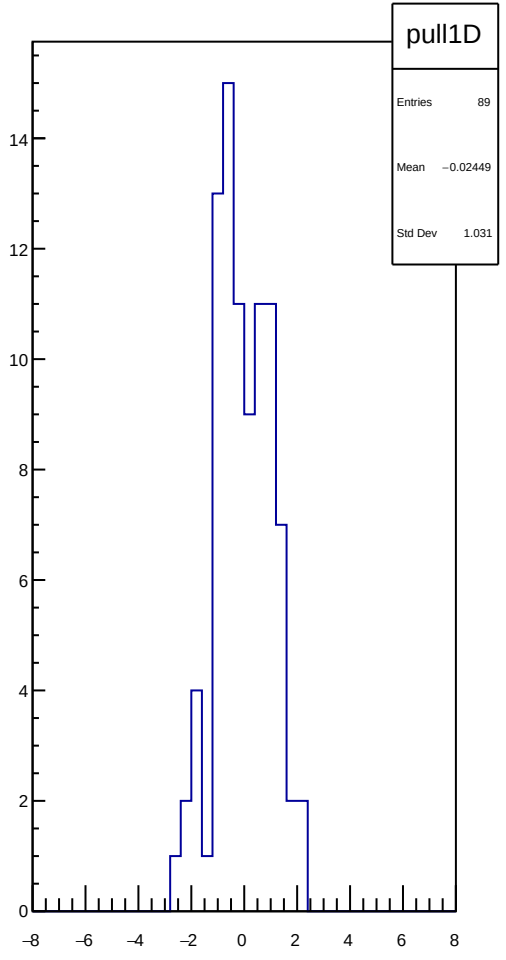

asym_usl_atl2_avg_eigen_cor_correction_rms vs run
χ² / ndf 4245 / 88
p0 4798 ± 3.647
5600
5400
5200
5000
4800
4600
4400
4200

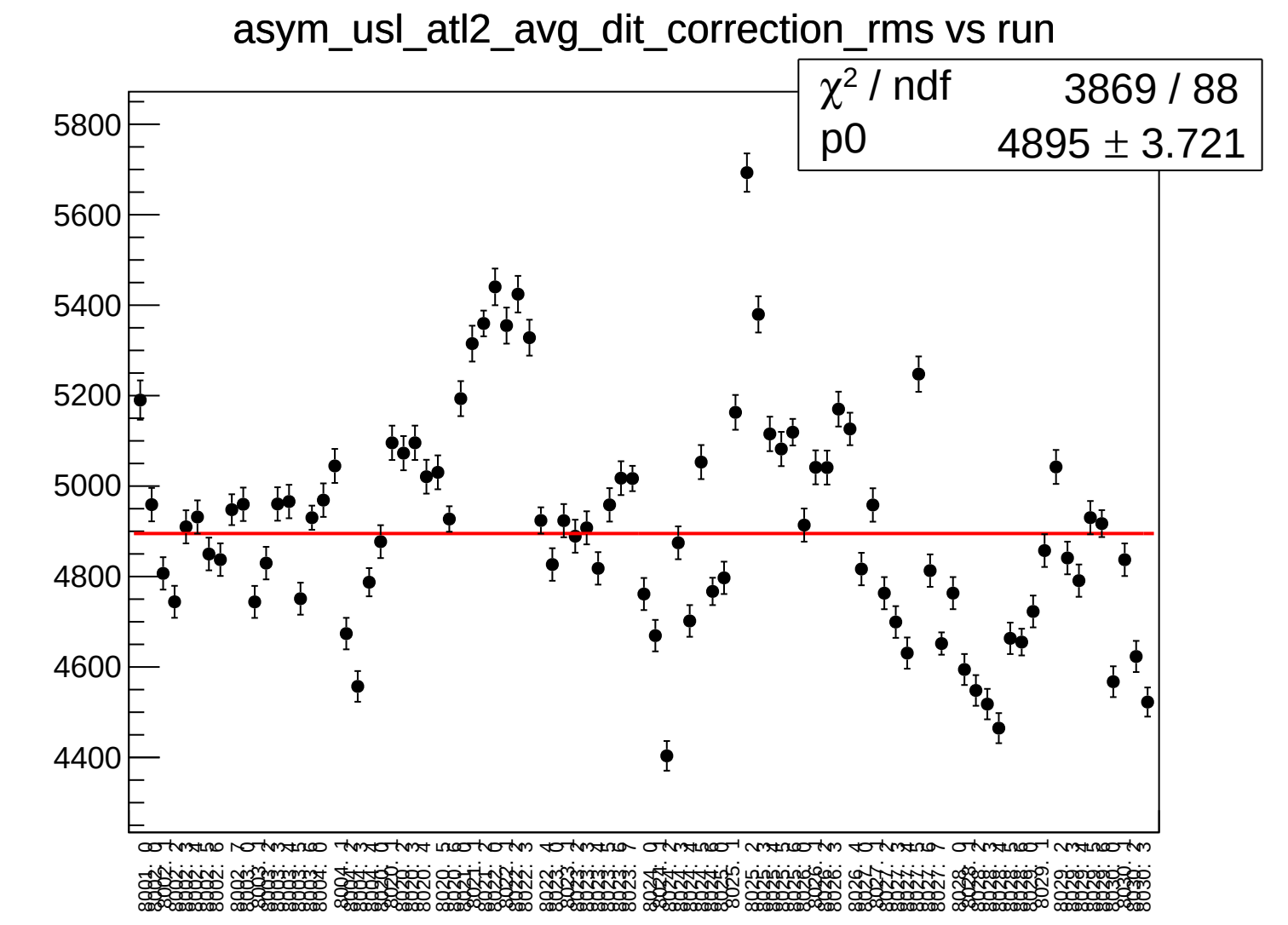

dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 80.61 / 88
p0 −2856 ± 1564
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 3.267
Std Dev 110.4
2
1
0
−1
−2

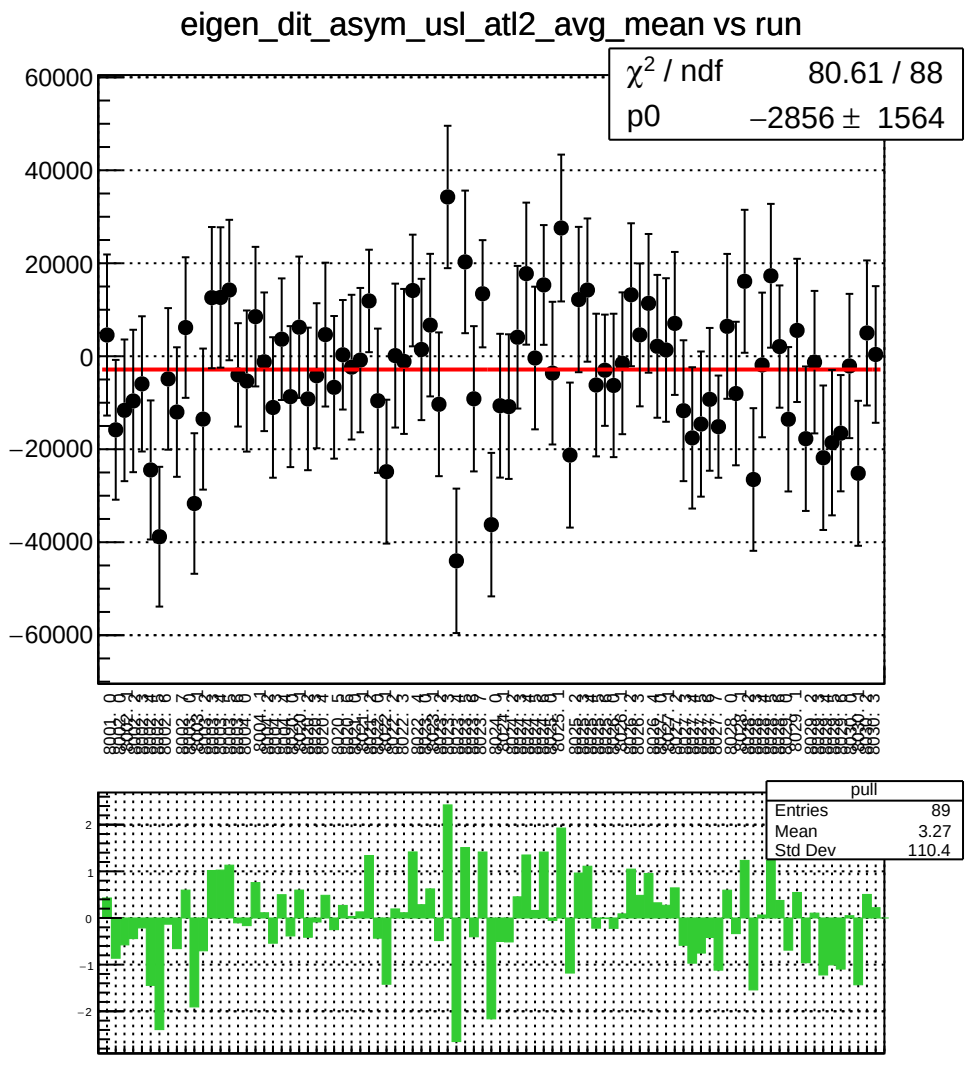

pull1D
Entries 89
Mean −0.01179
Std Dev 0.9516
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

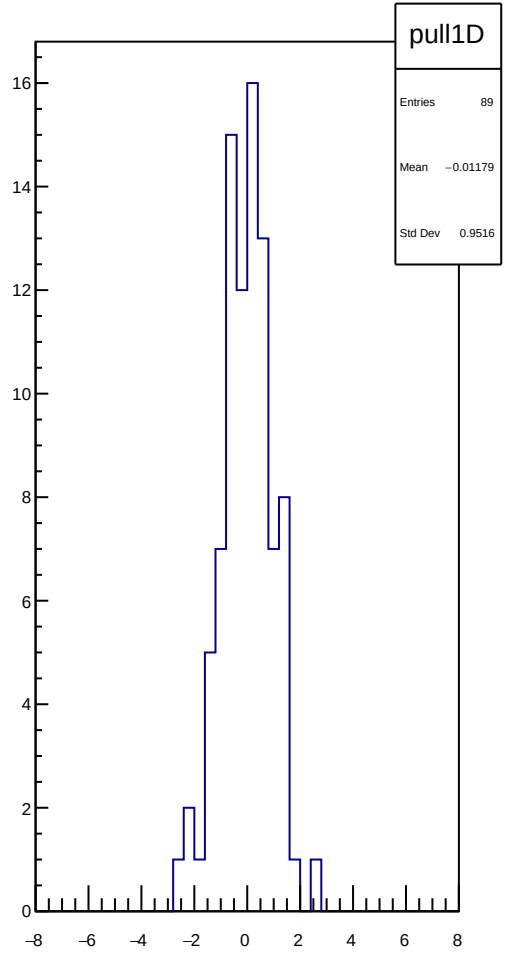

dit_asym_usl_atl2_avg_rms vs run
χ^2 / ndf 316.9 / 88
p0 1456 ± 1.106
1520
1500
1480
1460
1440
1420
1400
1380
1360

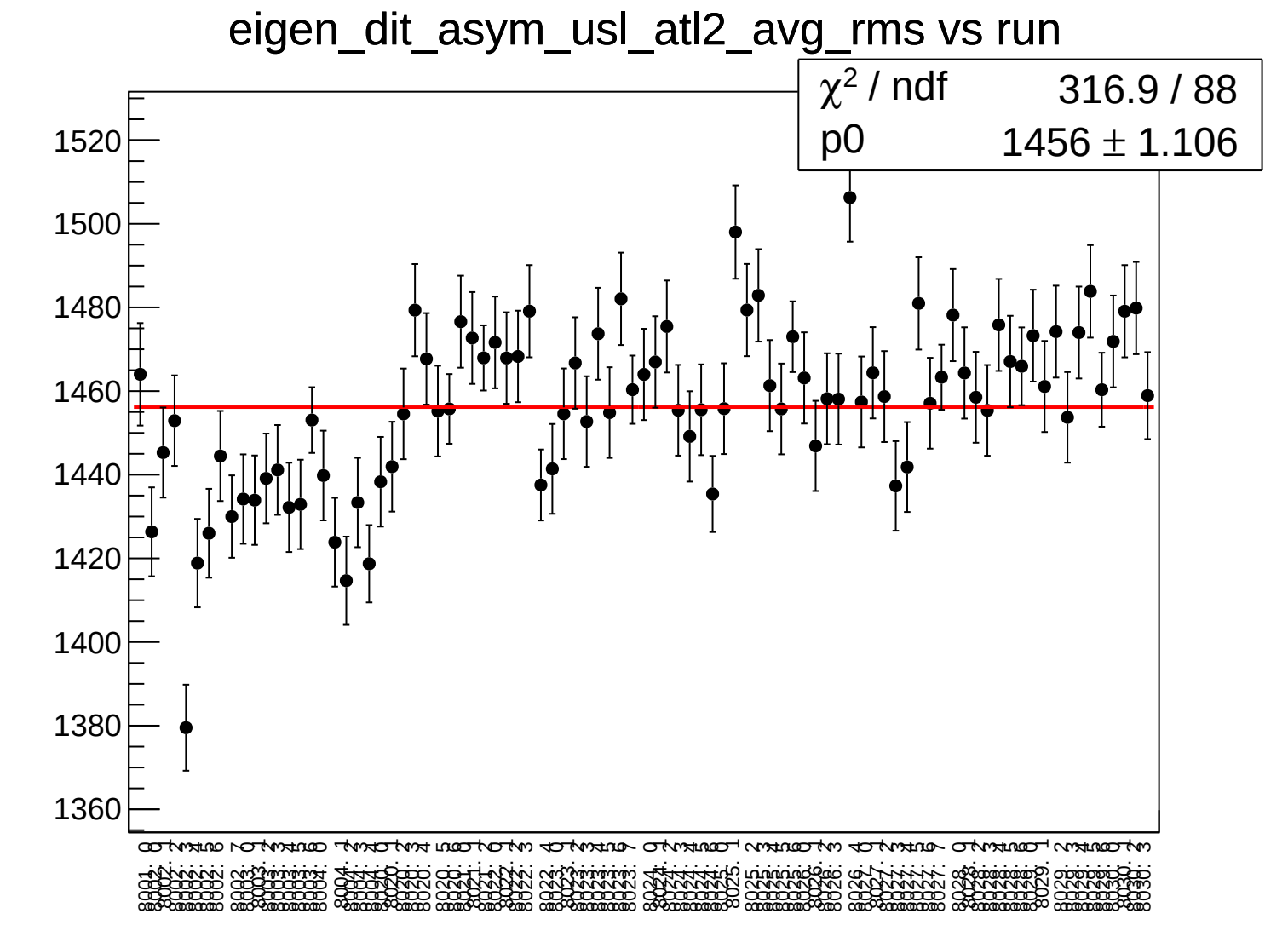

asym_usl_atl2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 94.72 / 88
p0 1228 ± 5262
pull
Entries 89
Mean 157.1
Std Dev 0

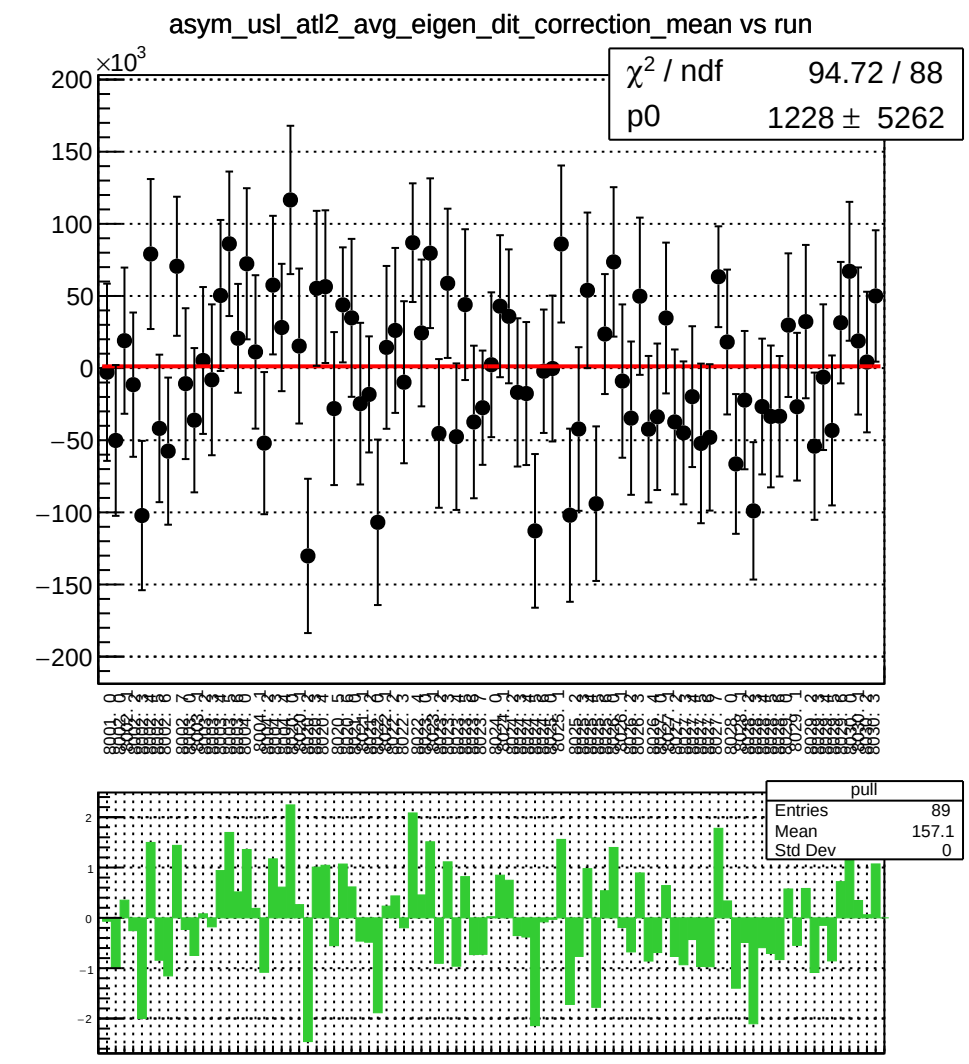

pull1D
Entries 89
Mean −0.02449
Std Dev 1.031

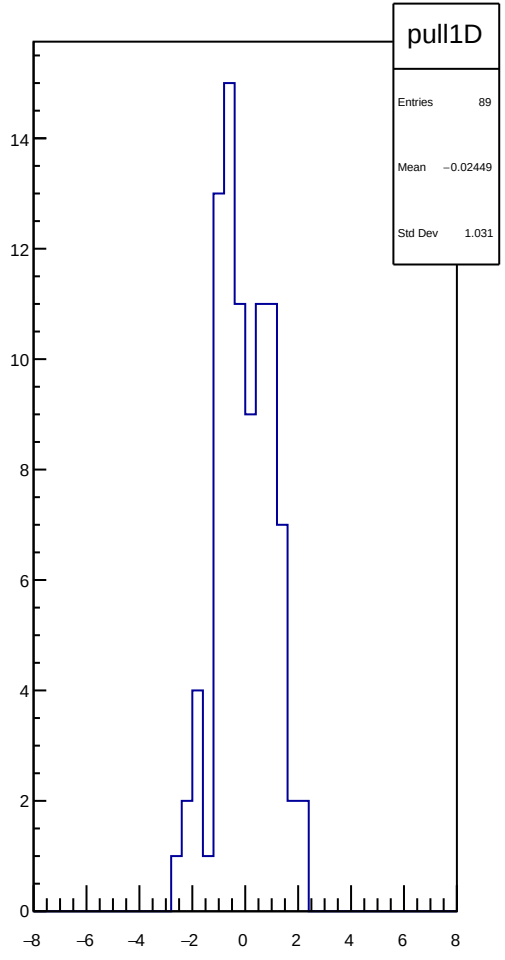

asym_usl_atl2_avg_dit_correction_rms vs run
χ² / ndf 3869 / 88
p0 4895 ± 3.721
5800
5600
5400
5200
5000
4800
4600
4400

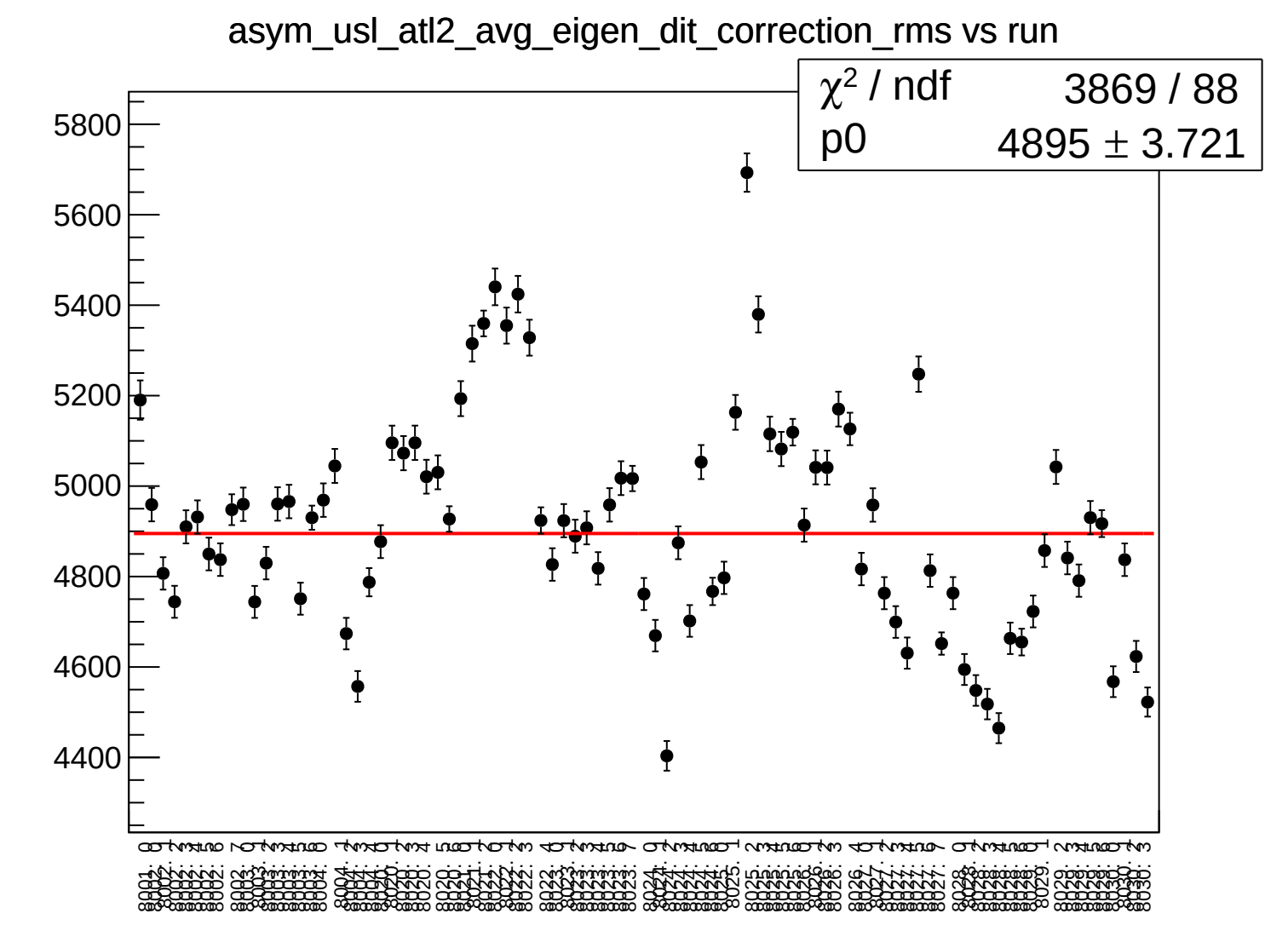

eigen_dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 80.61 / 88
p0 −2856 ± 1564
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 3.27
Std Dev 110.4
2
1
0
−1
−2

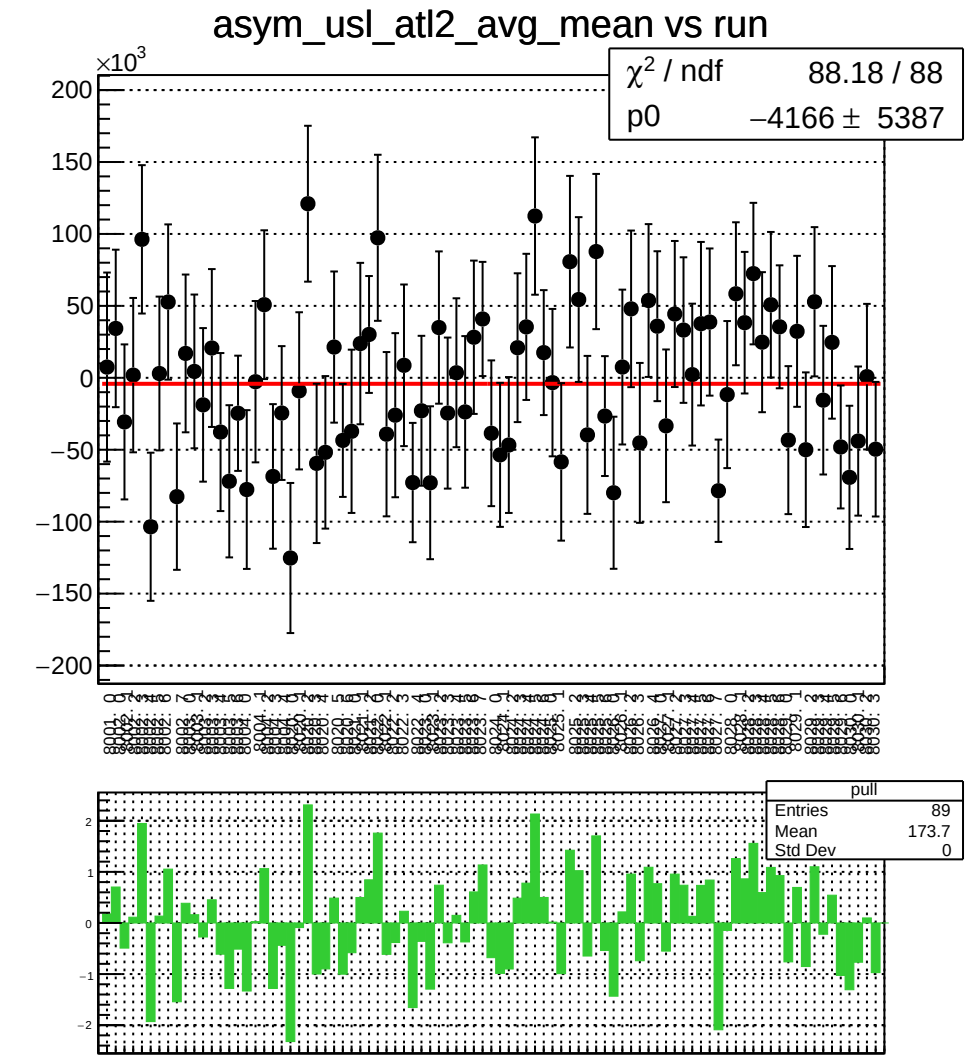

pull1D
Entries 89
Mean −0.01179
Std Dev 0.9516
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

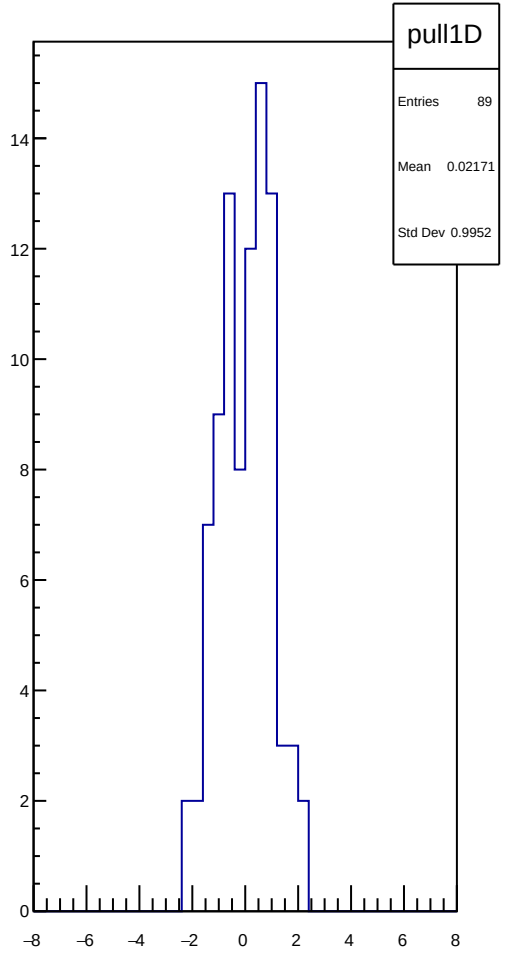

eigen_dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 316.9 / 88
p0 1456 ± 1.106
1520
1500
1480
1460
1440
1420
1400
1380
1360

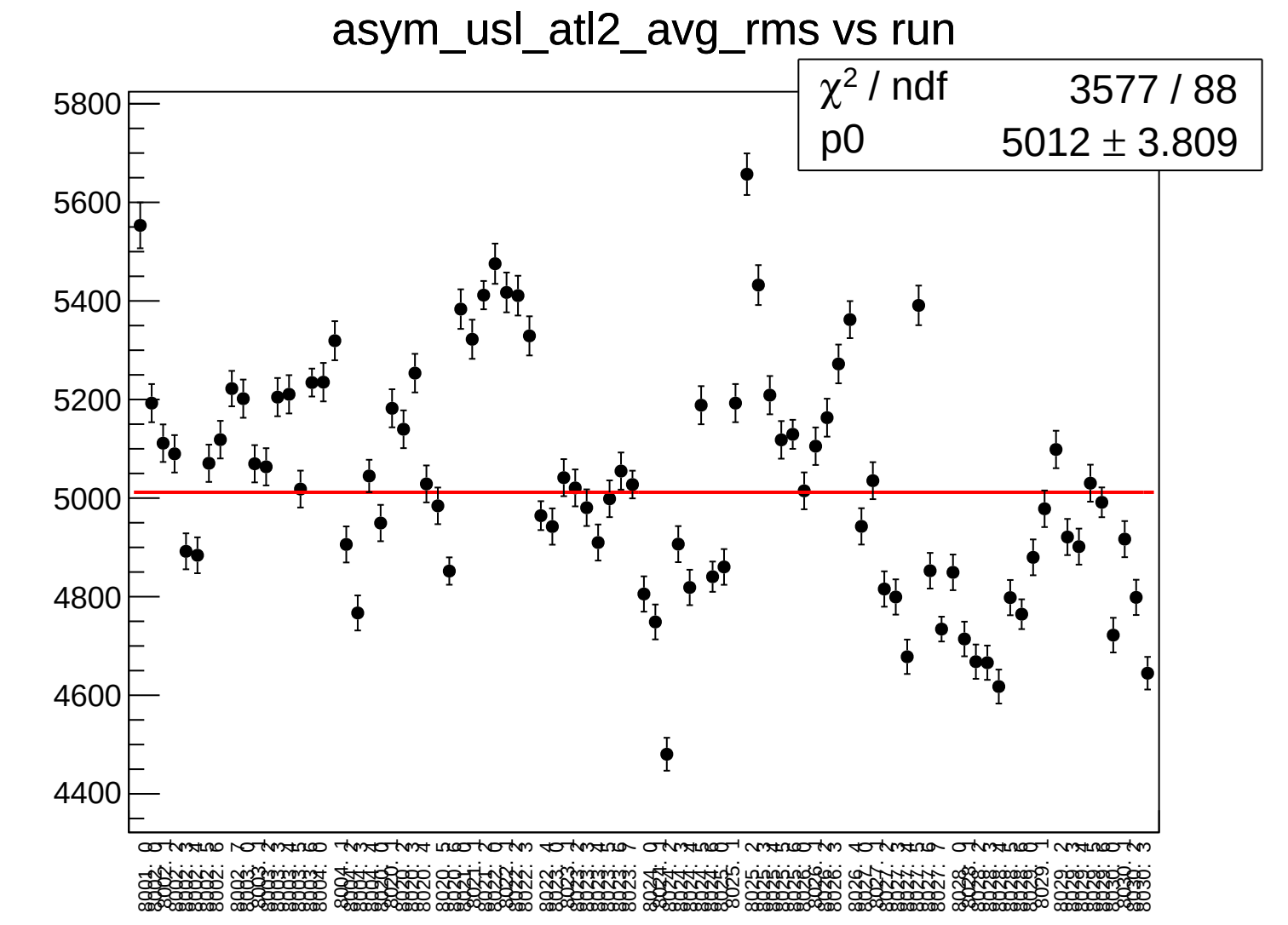

asym_usl_atl2_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 94.72 / 88
p0 1228 ± 5262
pull
Entries 89
Mean 157.1
Std Dev 0

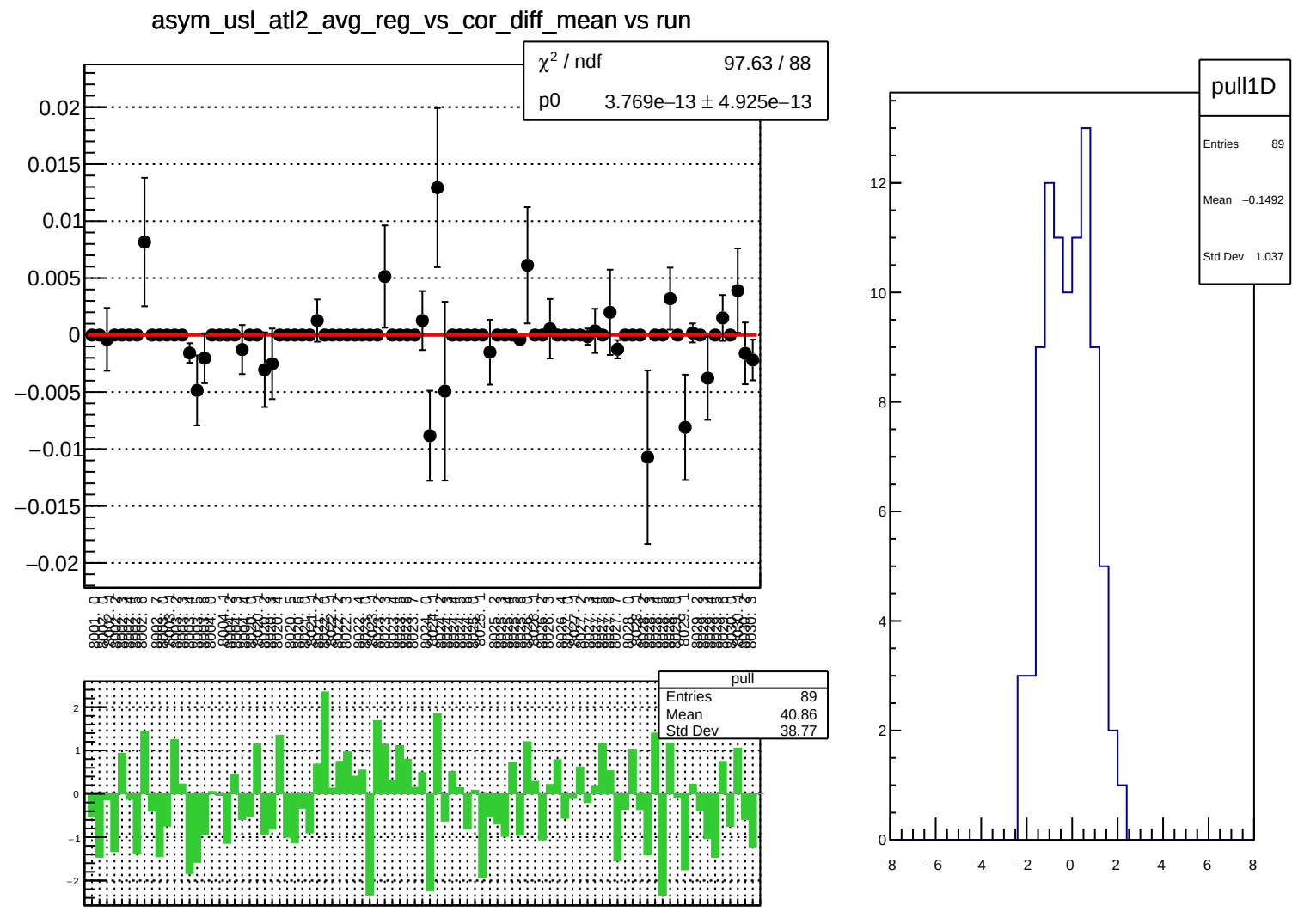

pull1D
Entries 89
Mean −0.02449
Std Dev 1.031

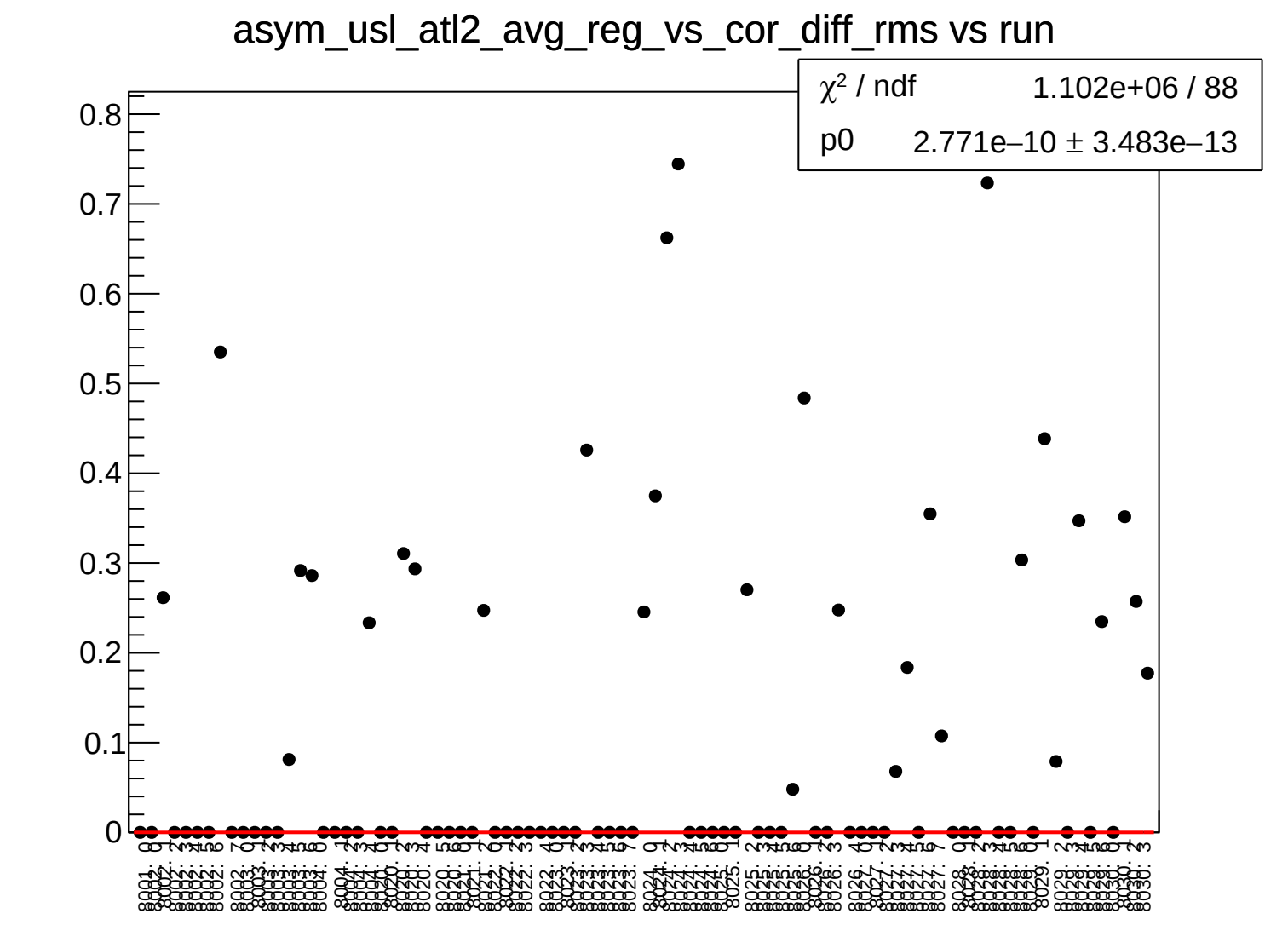

asym_usl_atl2_avg_eigen_dit_correction_rms vs run
χ² / ndf 3869 / 88
p0 4895 ± 3.721
5800
5600
5400
5200
5000
4800
4600
4400

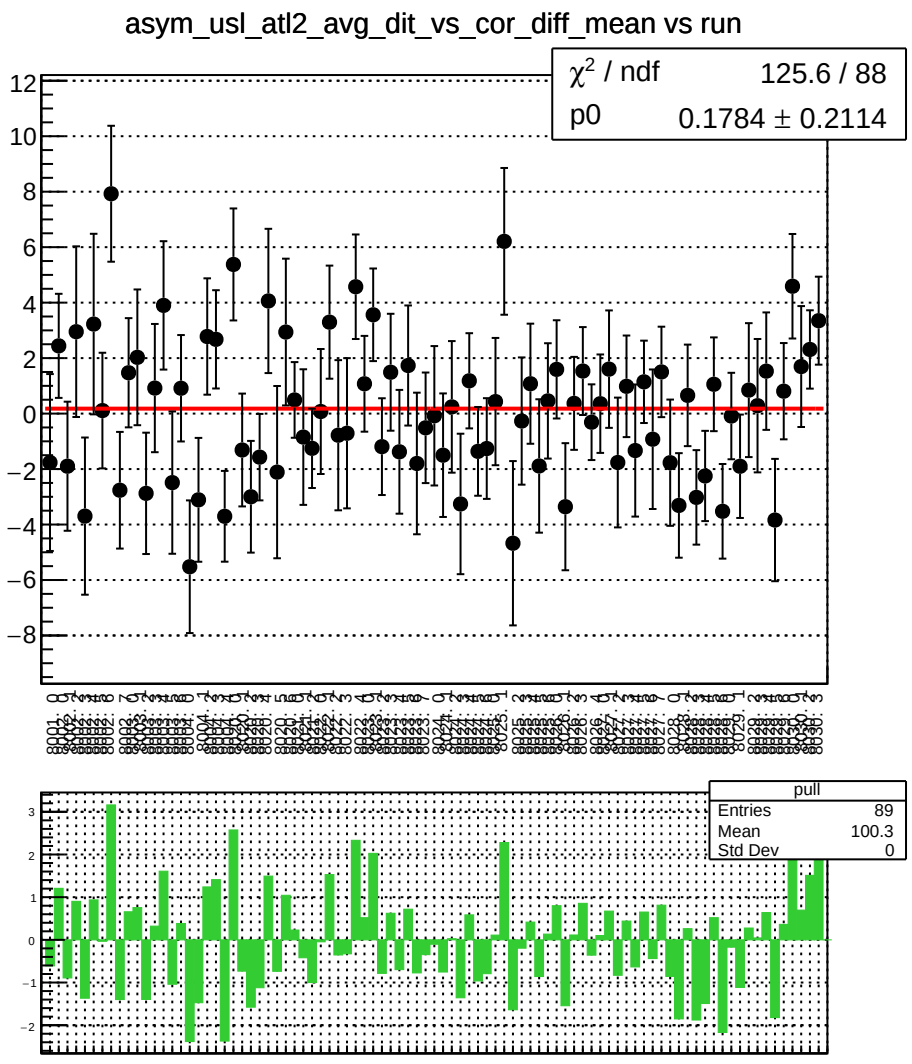

asym_usl_atl2_avg_mean vs run
×10^3
χ² / ndf 88.18 / 88
p0 −4166 ± 5387
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean 173.7
Std Dev 0
2
1
0
−1
−2

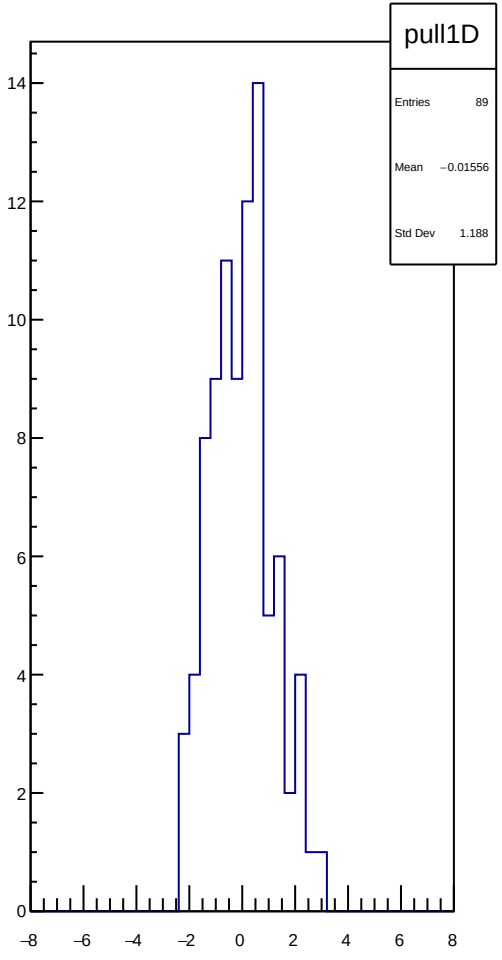

pull1D
Entries 89
Mean 0.02171
Std Dev 0.9952
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

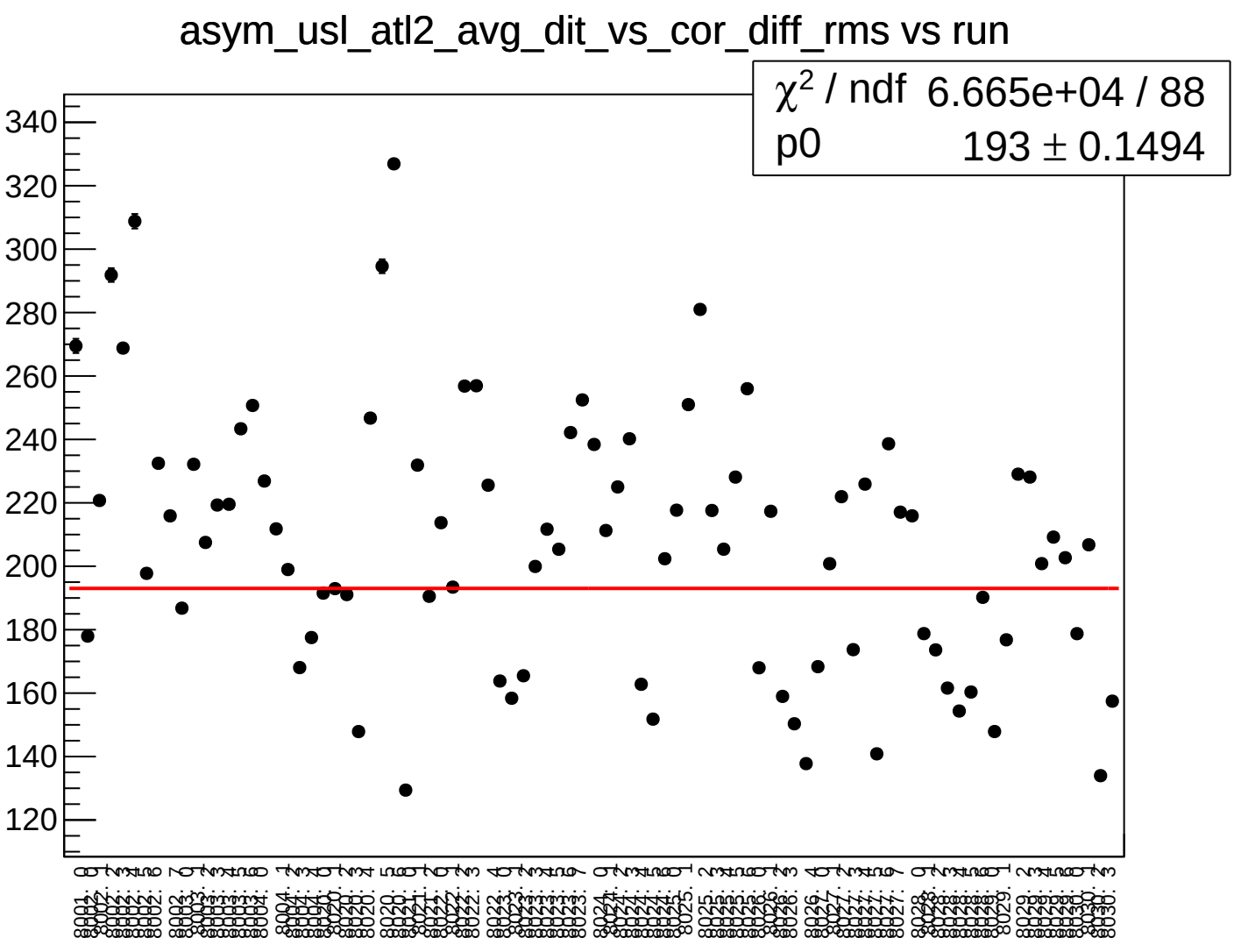

asym_usl_atl2_avg_rms vs run
χ² / ndf 3577 / 88
p0 5012 ± 3.809
5800
5600
5400
5200
5000
4800
4600
4400

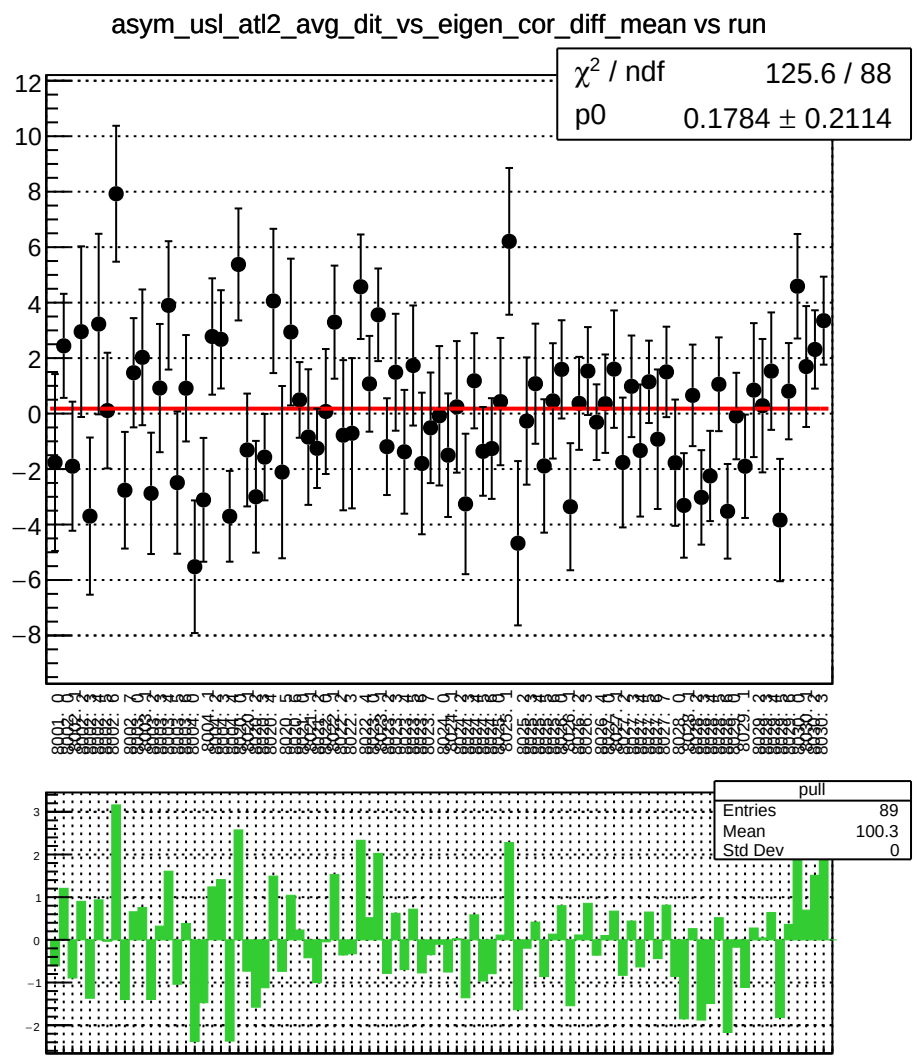

asym_usl_atl2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 97.63 / 88
p0 3.769e−13 ± 4.925e−13
pull
Entries 89
Mean 40.86
Std Dev 38.77
pull1D
Entries 89
Mean −0.1492
Std Dev 1.037

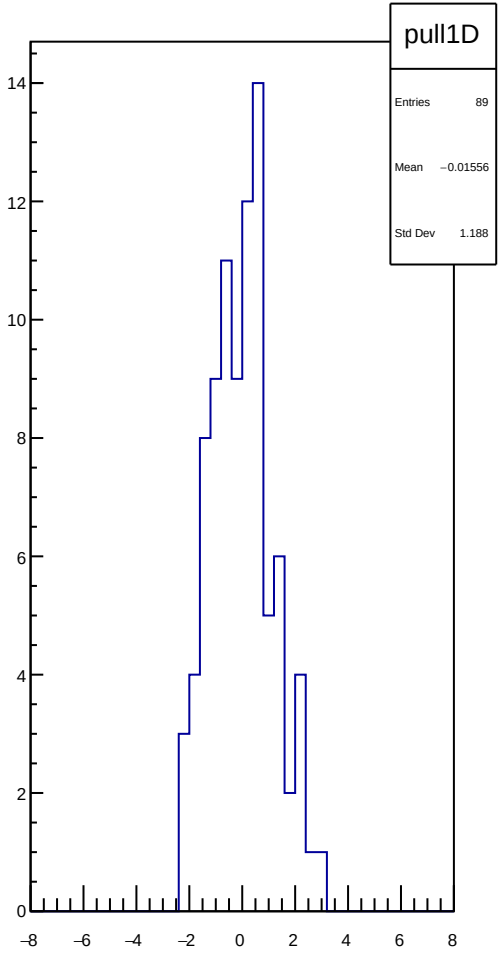

asym_usl_atl2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.102e+06 / 88
p0 2.771e−10 ± 3.483e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

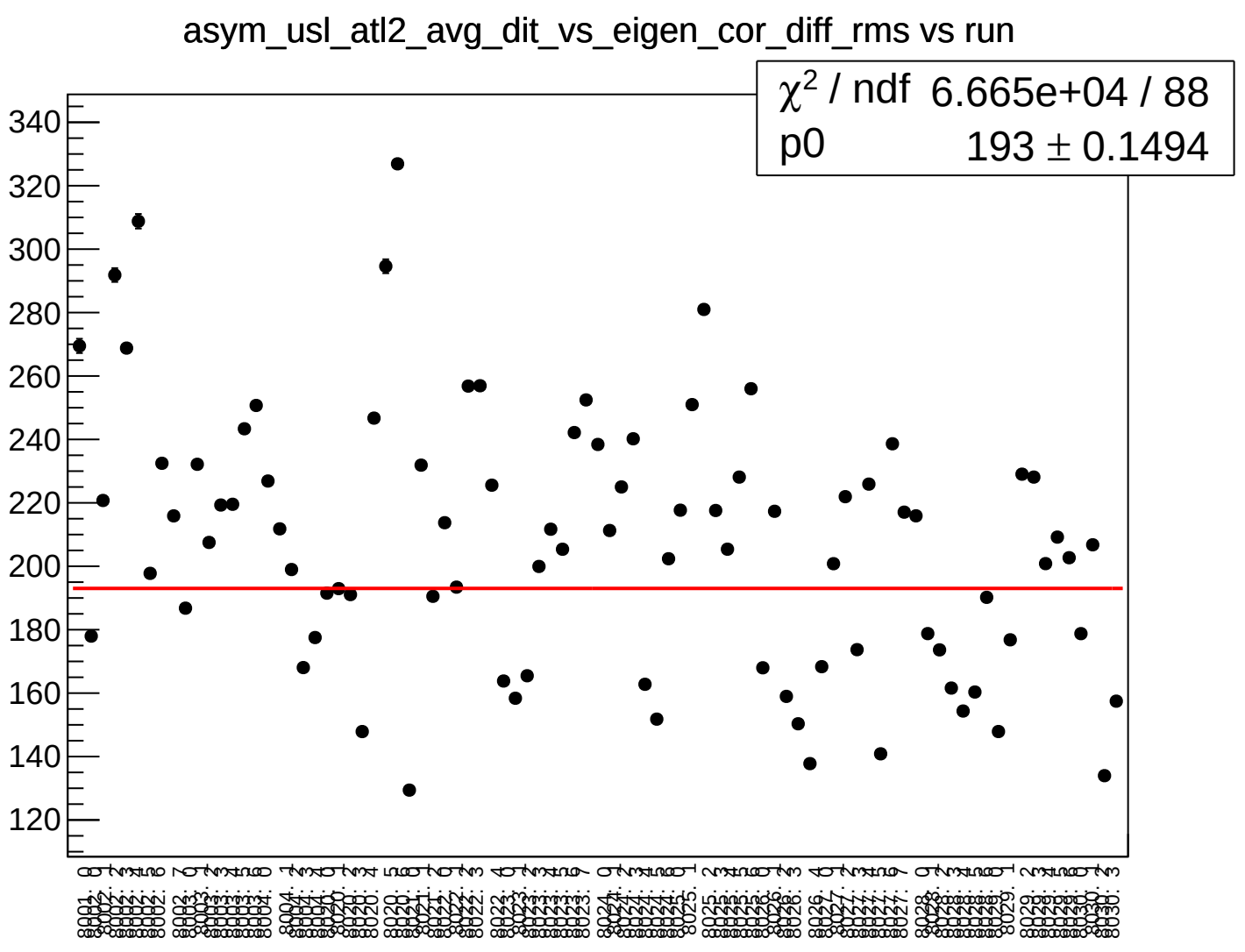

asym_usl_atl2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 125.6 / 88
p0 0.1784 ± 0.2114
pull
Entries 89
Mean 100.3
Std Dev 0

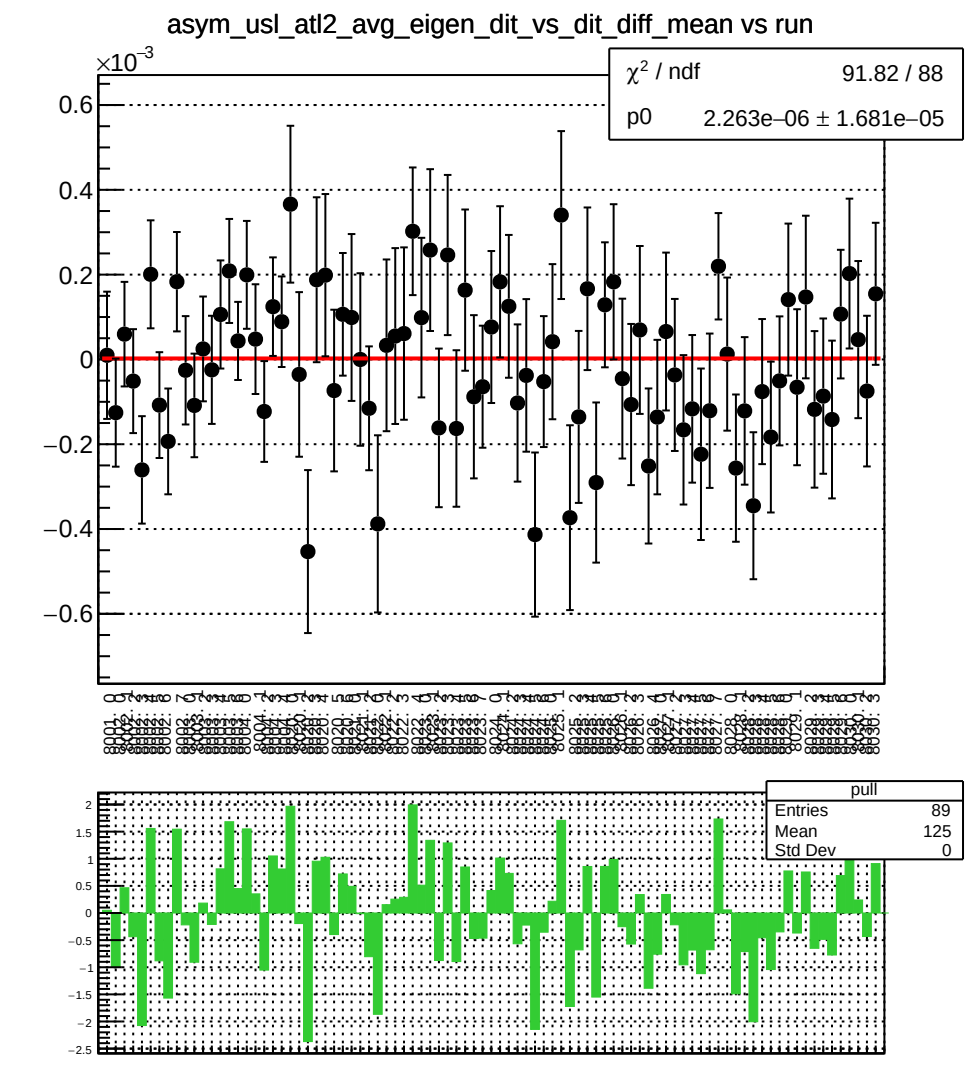

pull1D
Entries 89
Mean −0.01556
Std Dev 1.188

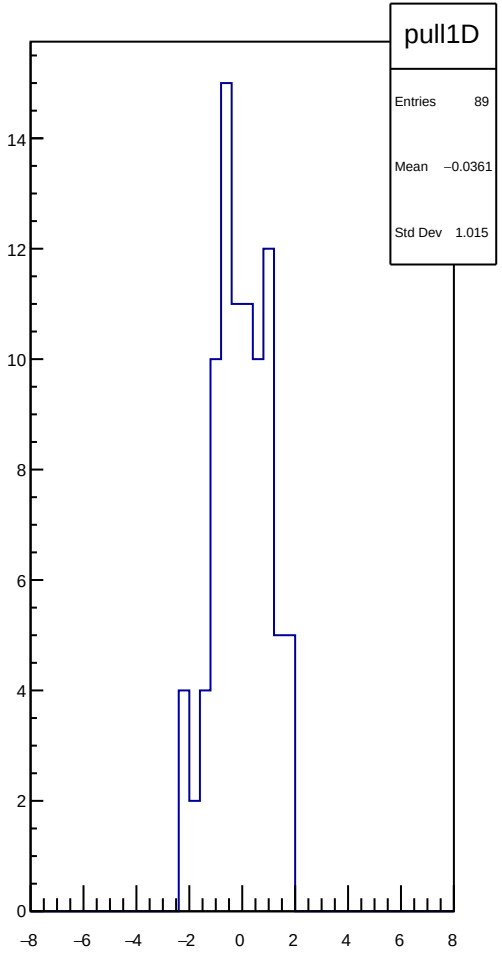

asym_usl_atl2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.665e+04 / 88
p0 193 ± 0.1494
340
320
300
280
260
240
220
200
180
160
140
120

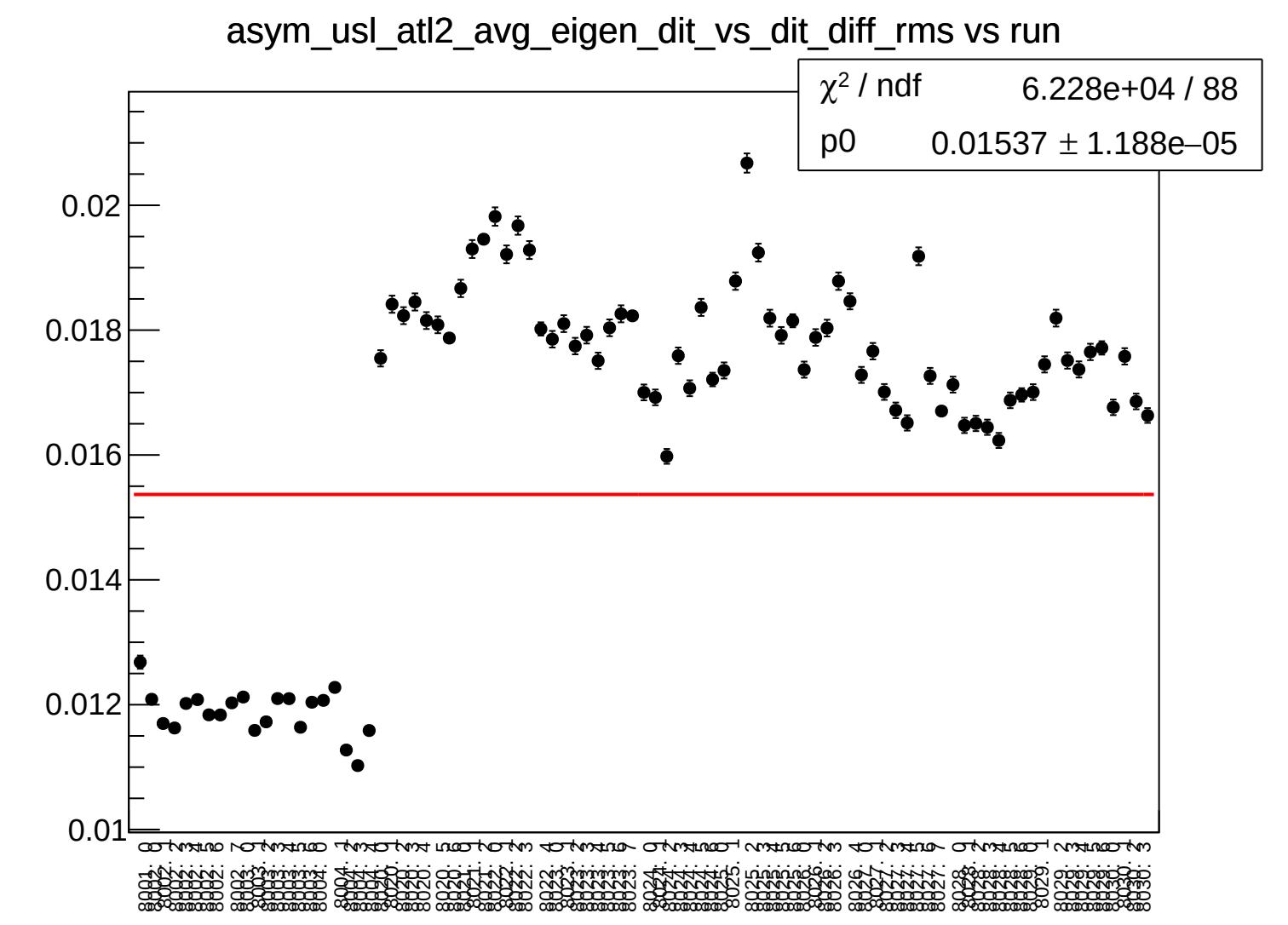

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 125.6 / 88
p0 0.1784 ± 0.2114
pull
Entries 89
Mean 100.3
Std Dev 0

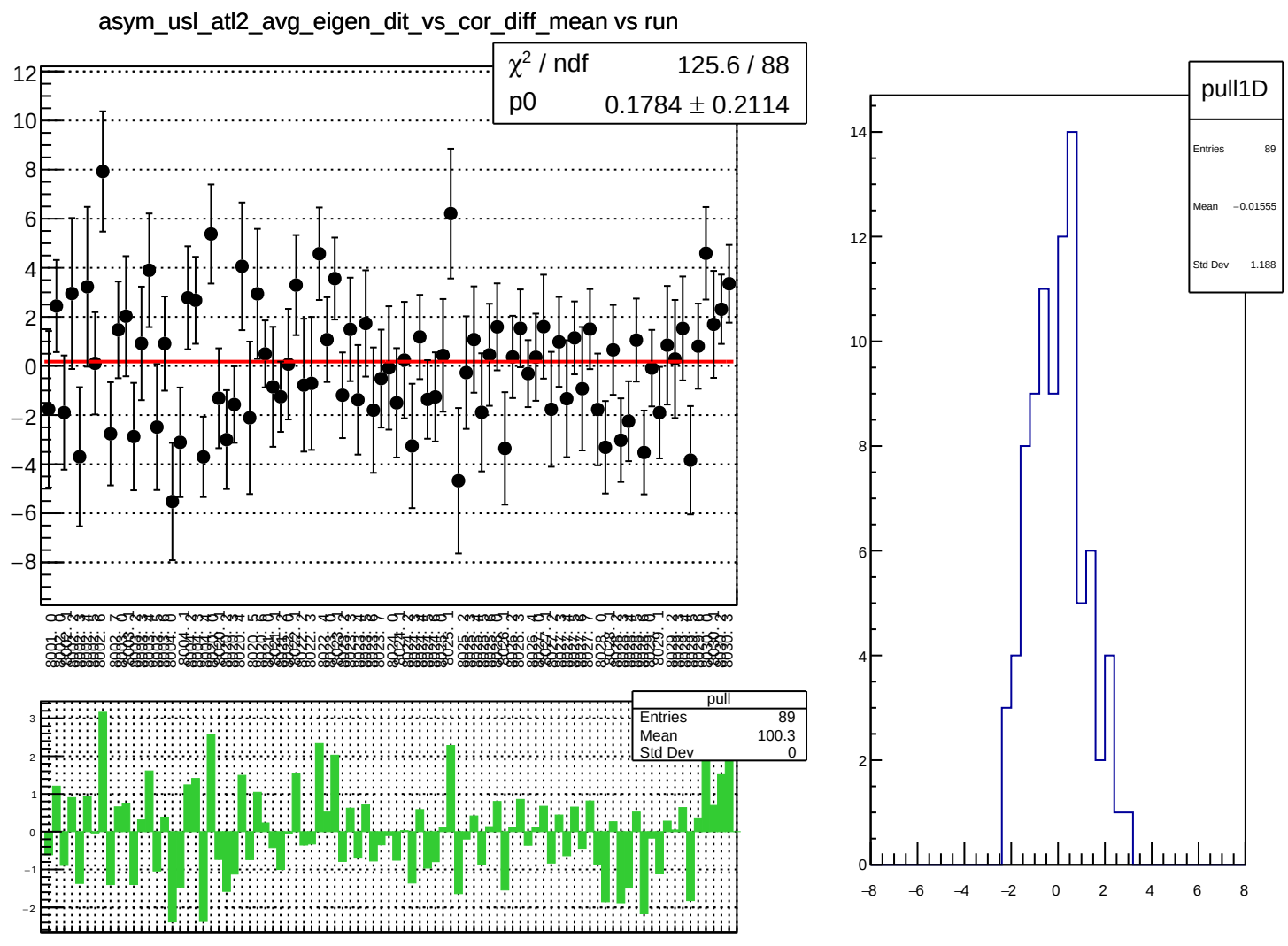

pull1D
Entries 89
Mean −0.01556
Std Dev 1.188

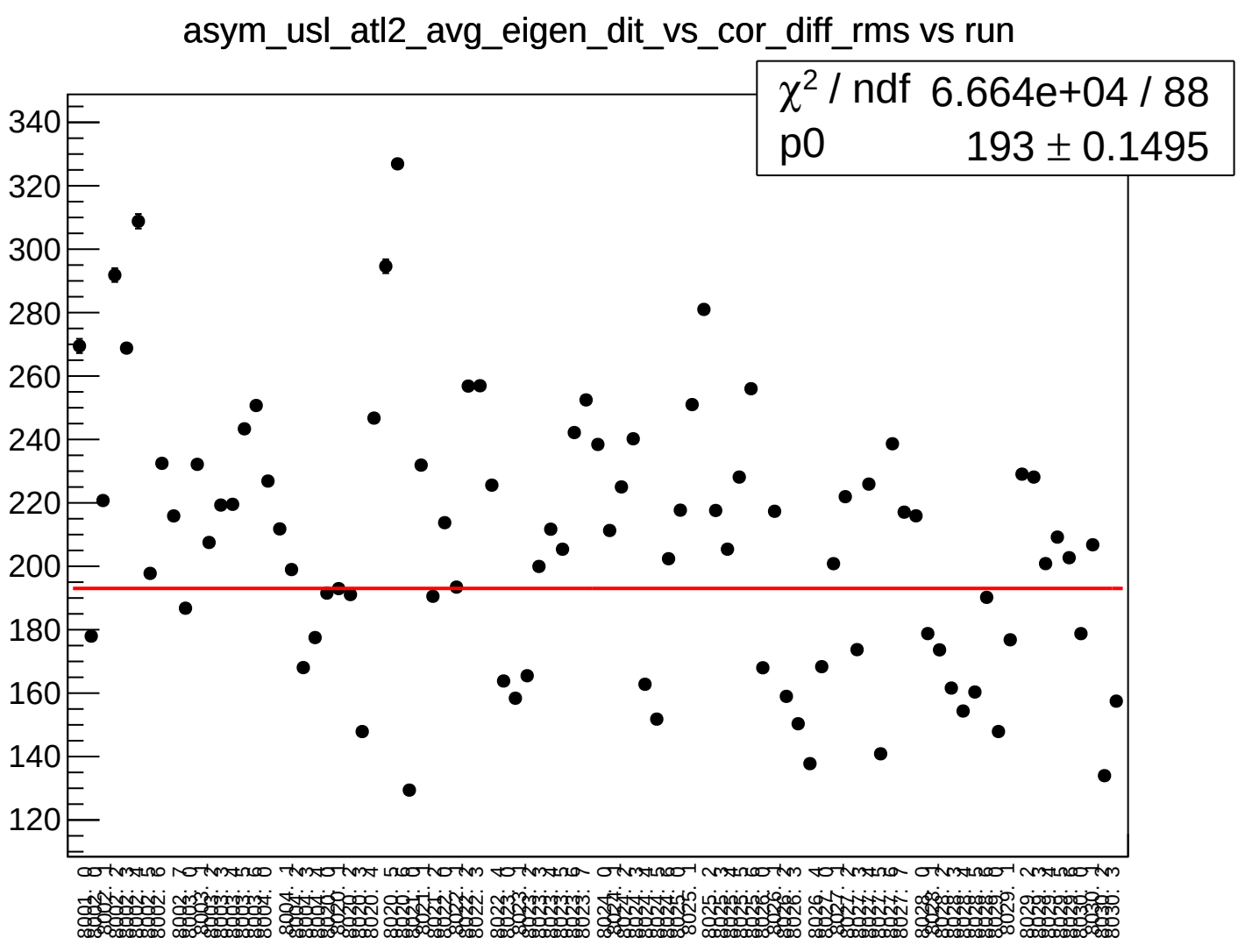

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.665e+04 / 88
p0 193 ± 0.1494
340
320
300
280
260
240
220
200
180
160
140
120

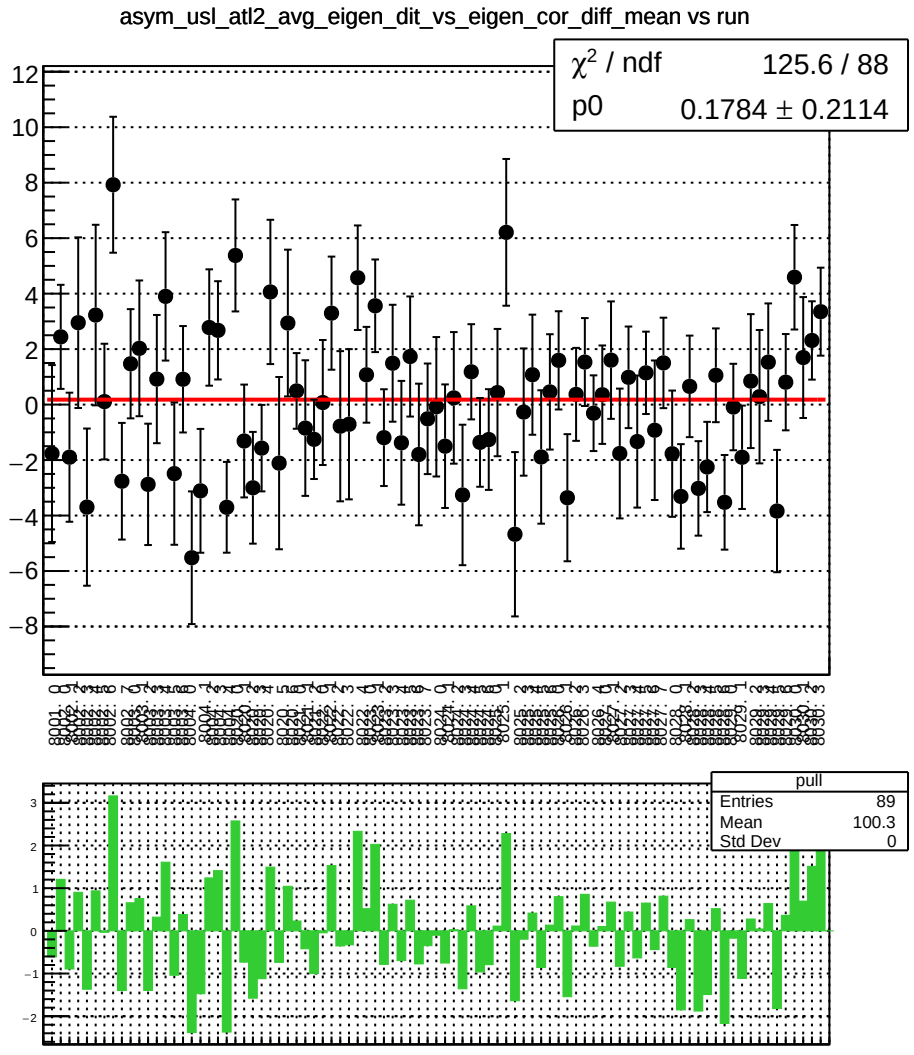

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.82 / 88
p0 2.263e−06 ± 1.681e−05
pull
Entries 89
Mean 125
Std Dev 0

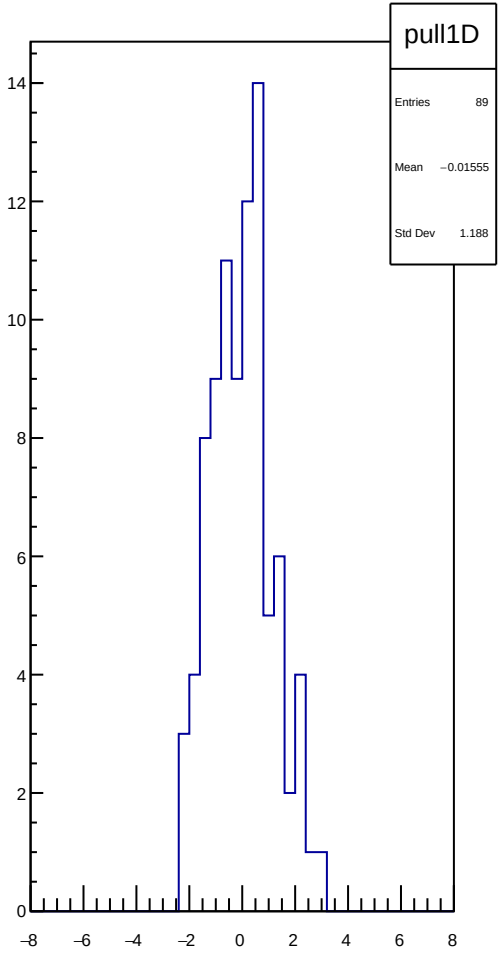

pull1D
Entries 89
Mean −0.0361
Std Dev 1.015

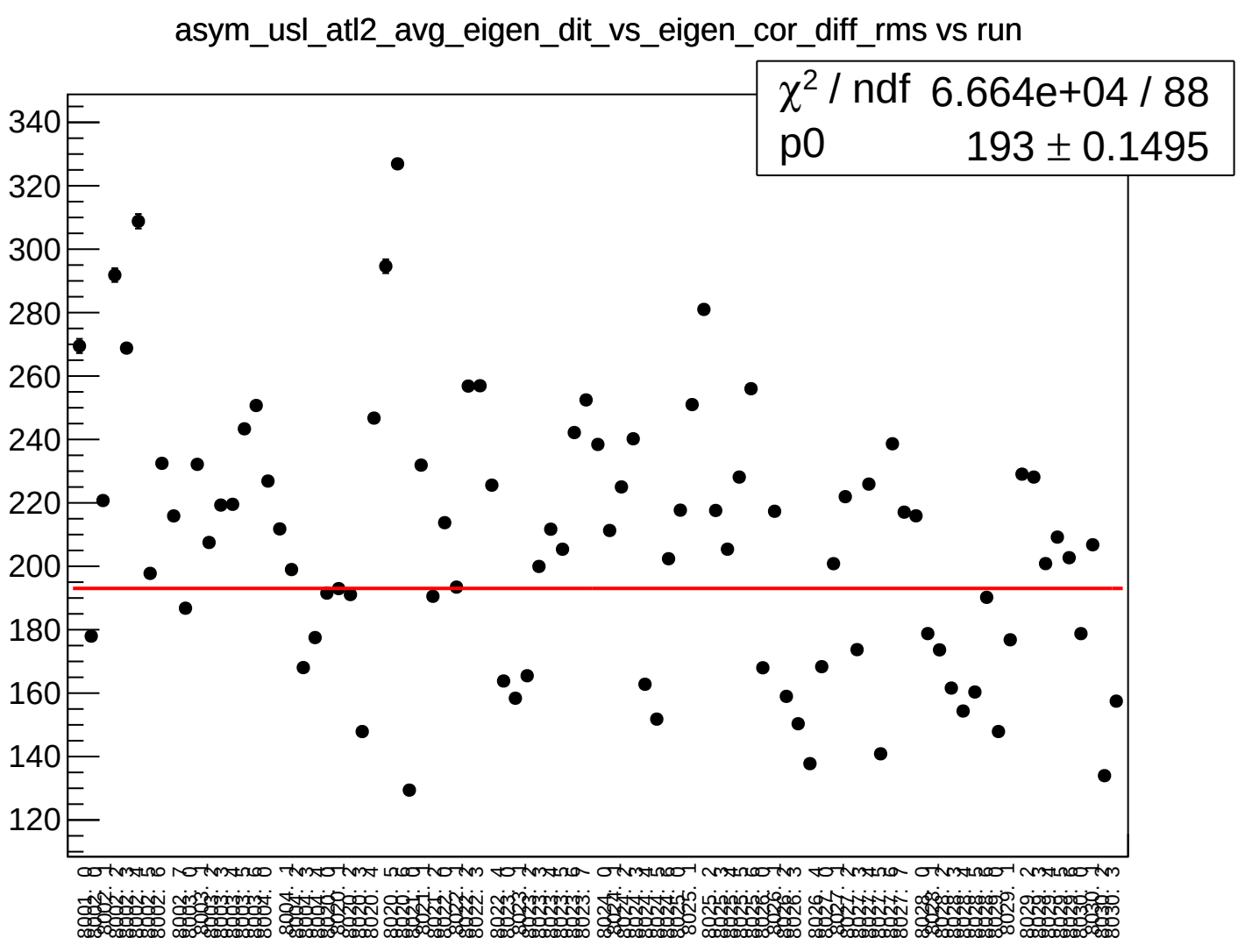

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.228e+04 / 88
p0 0.01537 ± 1.188e−05
0.02
0.018
0.016
0.014
0.012
0.01

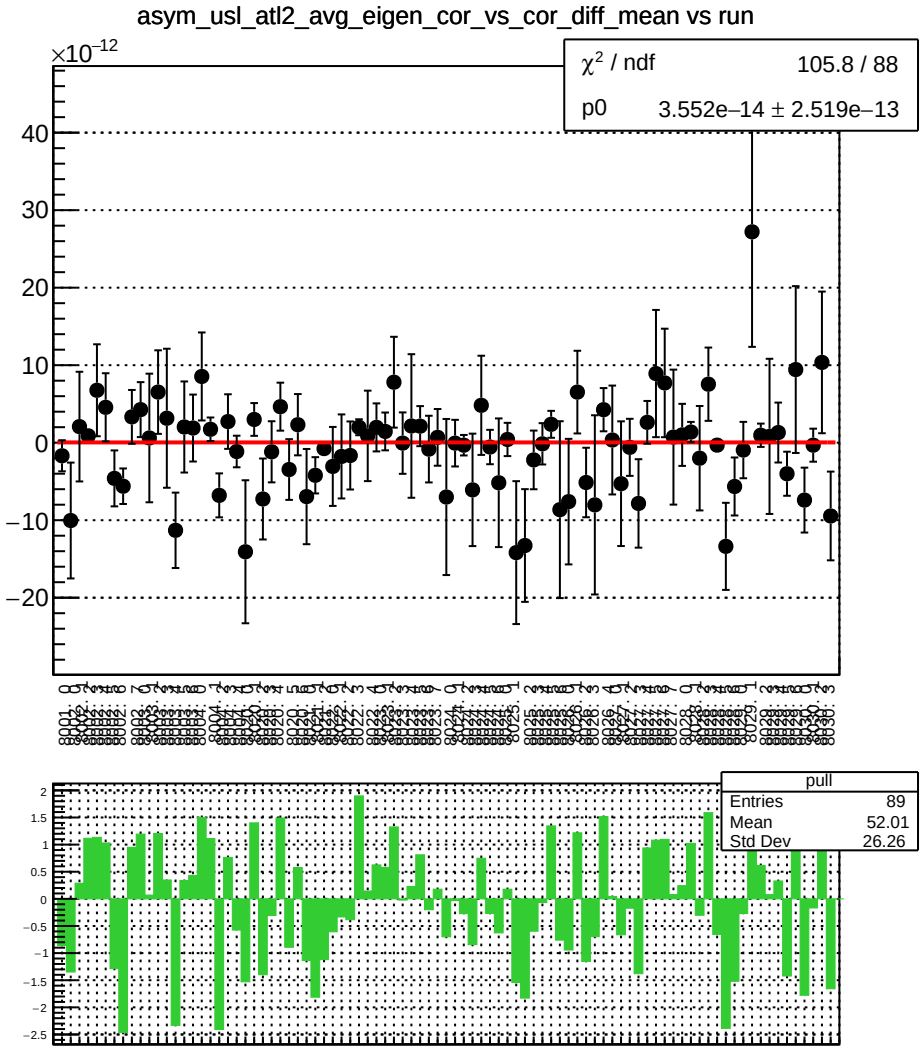

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 125.6 / 88
p0 0.1784 ± 0.2114
pull
Entries 89
Mean 100.3
Std Dev 0
pull1D
Entries 89
Mean −0.01555
Std Dev 1.188

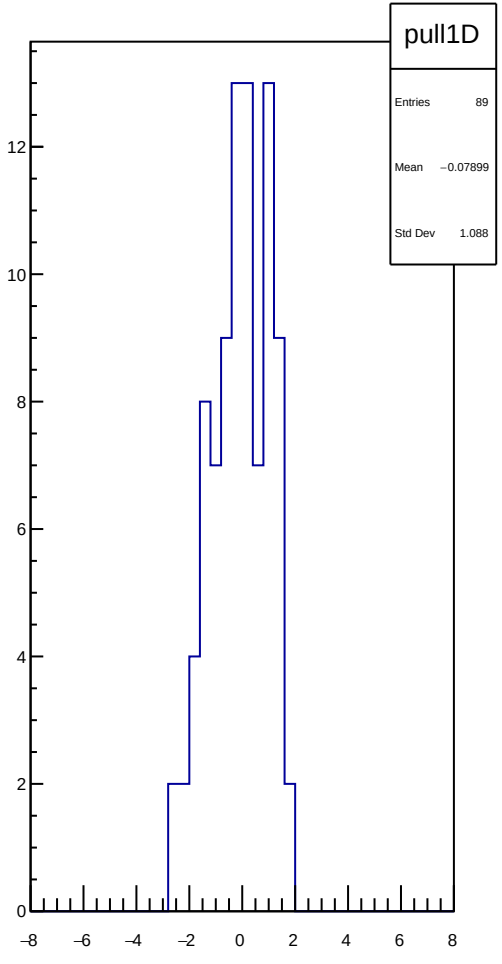

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.664e+04 / 88
p0 193 ± 0.1495
340
320
300
280
260
240
220
200
180
160
140
120

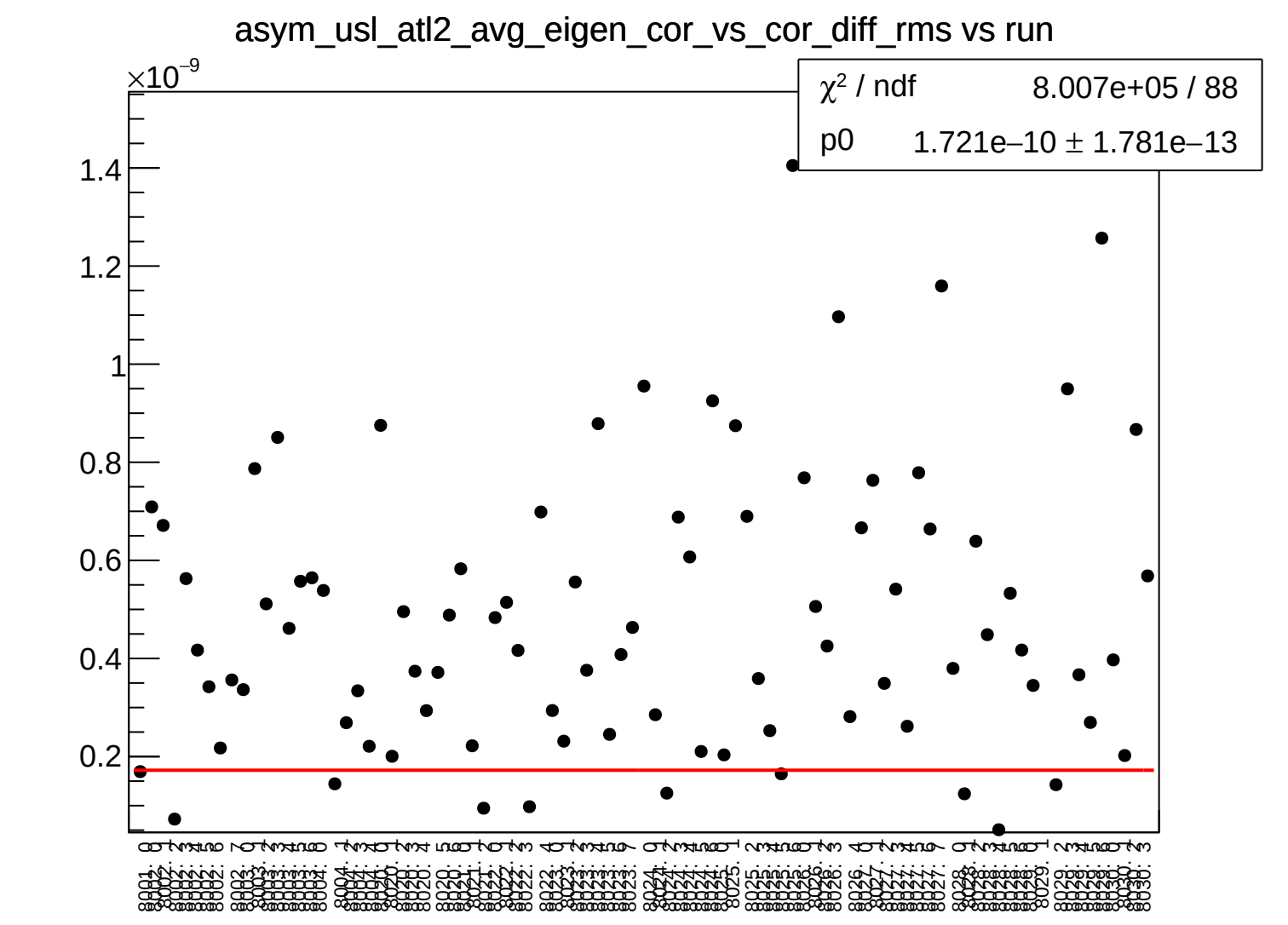

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 125.6 / 88
p0 0.1784 ± 0.2114
pull
Entries 89
Mean 100.3
Std Dev 0

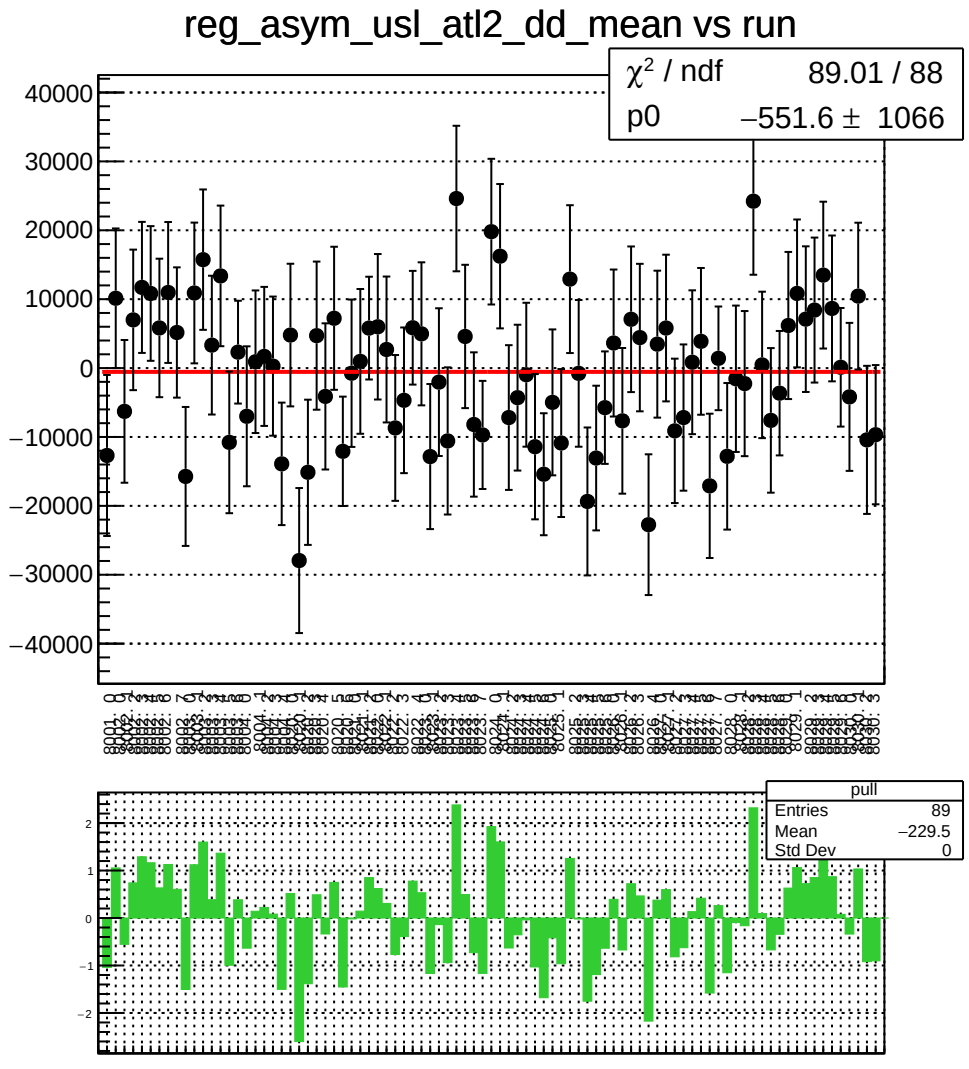

pull1D
Entries 89
Mean −0.01555
Std Dev 1.188

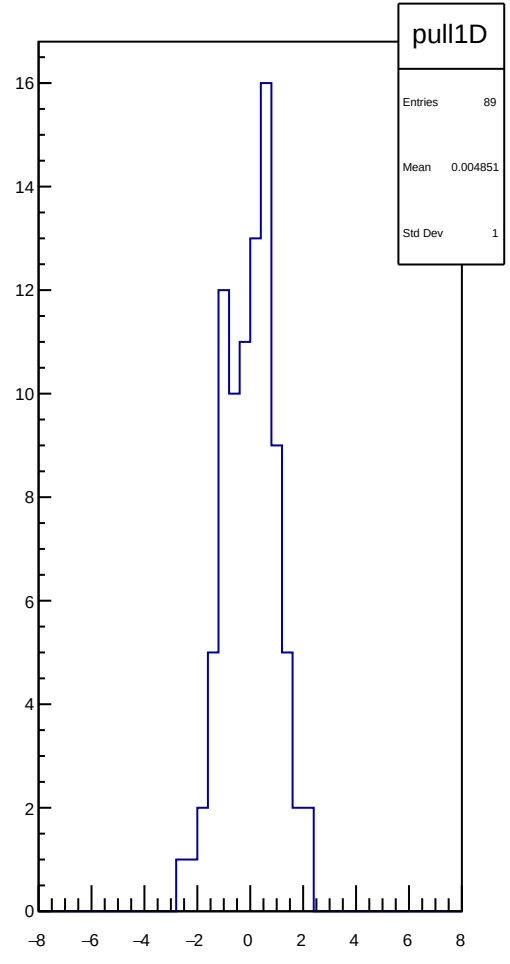

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.664e+04 / 88
p0 193 ± 0.1495
340
320
300
280
260
240
220
200
180
160
140
120

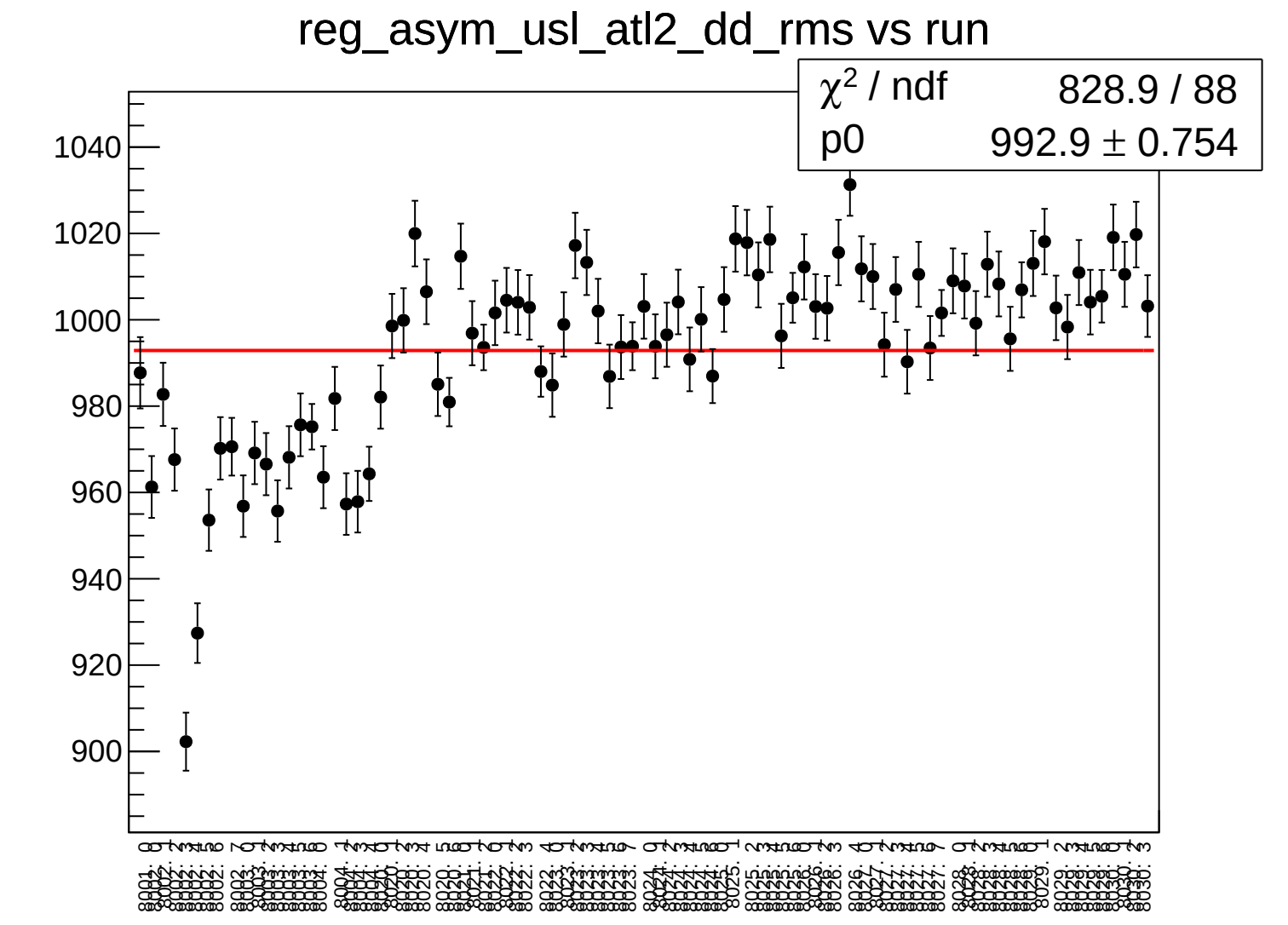

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 105.8 / 88
p0 3.552e−14 ± 2.519e−13
pull
Entries 89
Mean 52.01
Std Dev 26.26

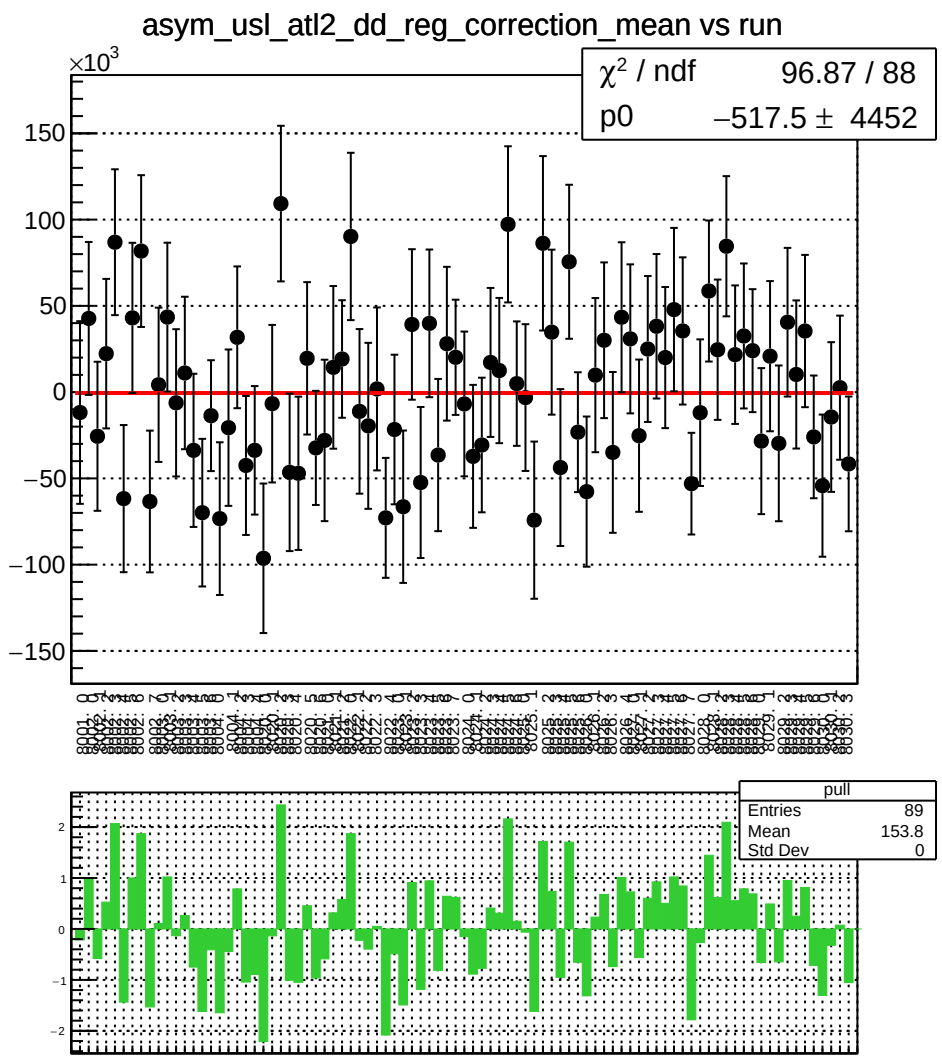

pull1D
Entries 89
Mean −0.07899
Std Dev 1.088

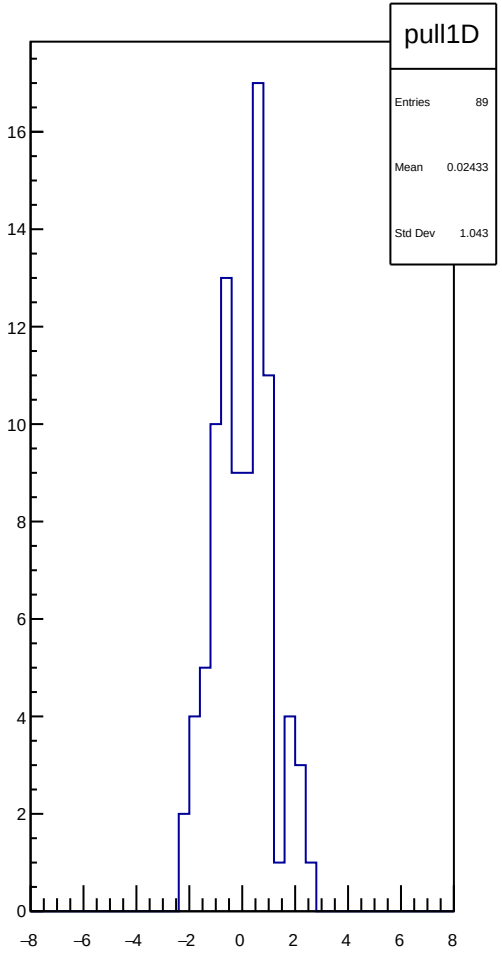

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.007e+05 / 88
p0 1.721e−10 ± 1.781e−13
1.4
1.2
1
0.8
0.6
0.4
0.2

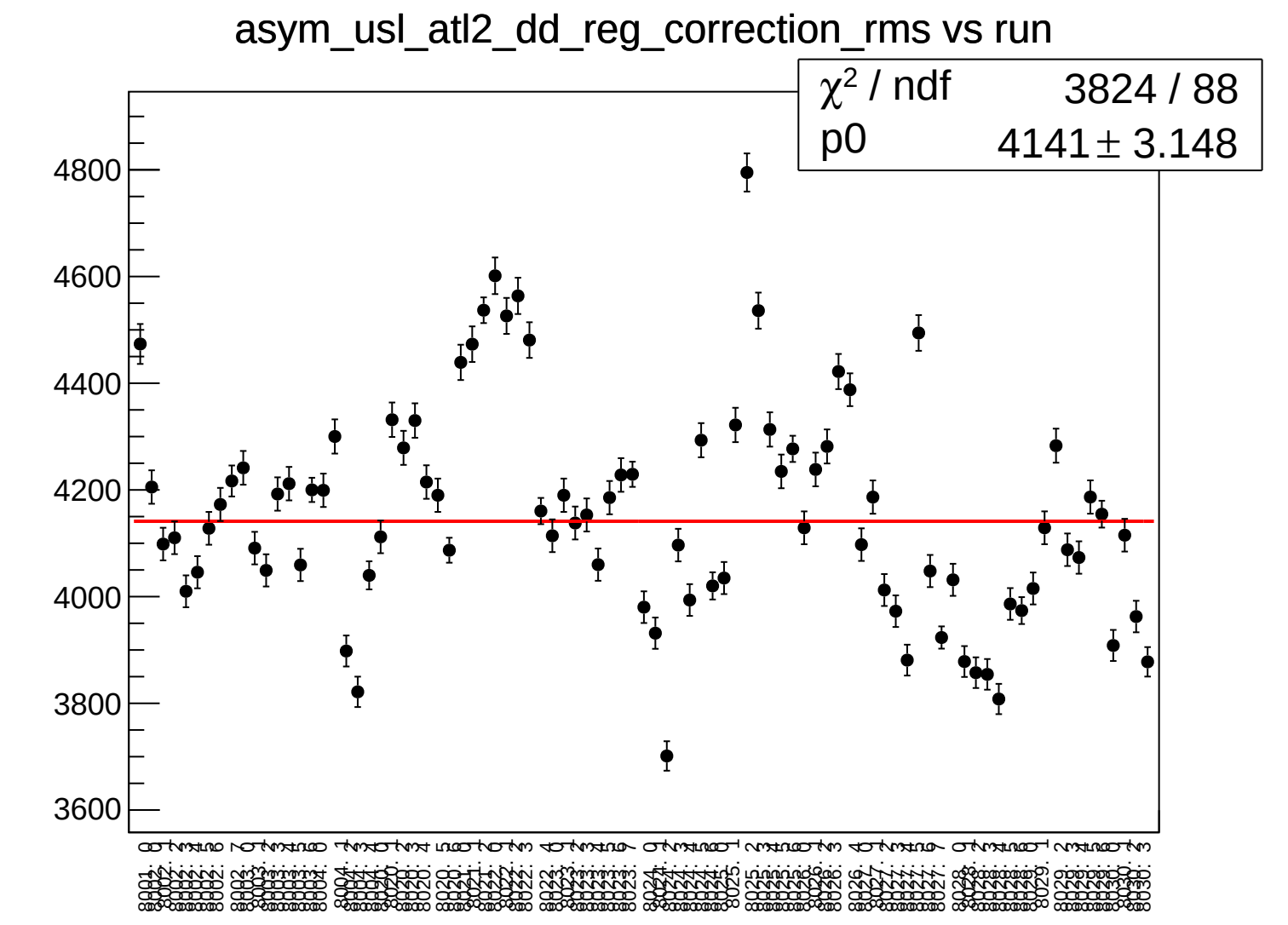

reg_asym_usl_atl2_dd_mean vs run
χ² / ndf 89.01 / 88
p0 −551.6 ± 1066
pull
Entries 89
Mean −229.5
Std Dev 0

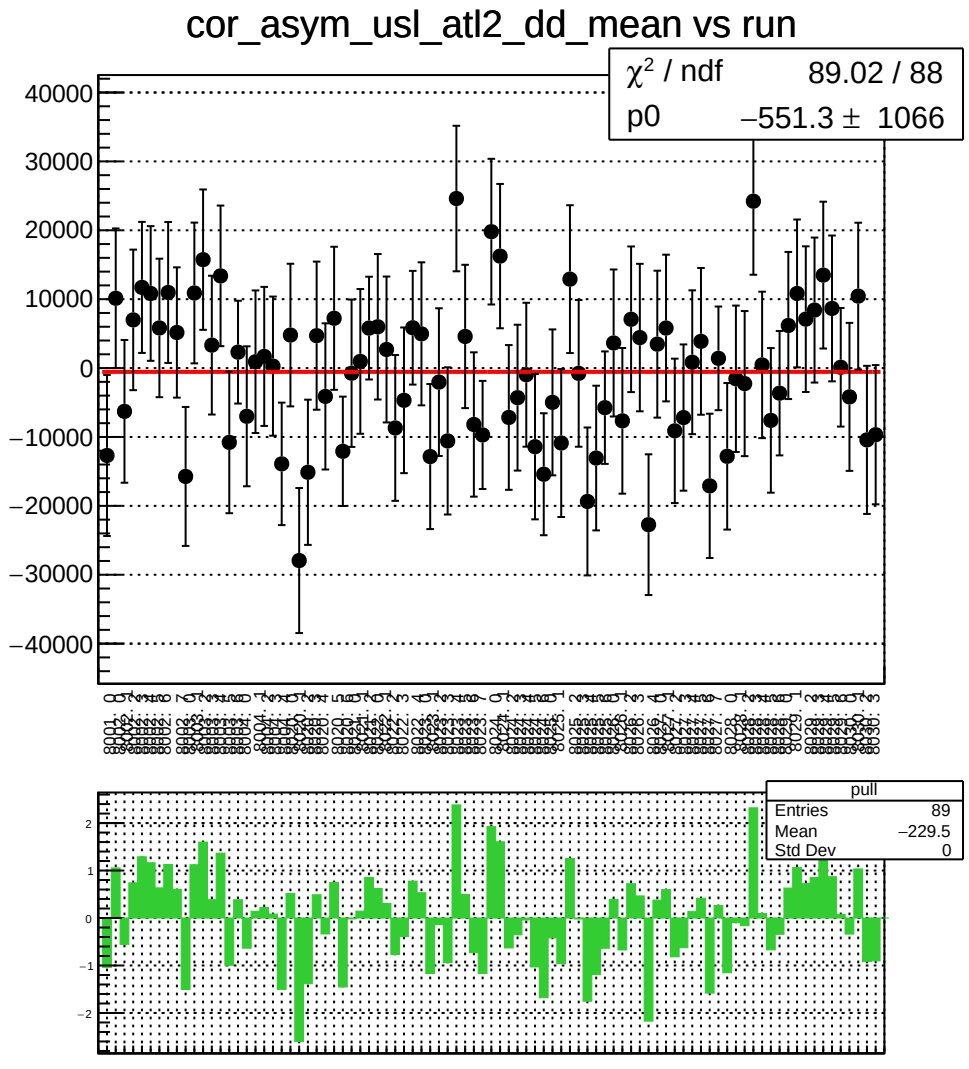

pull1D
Entries 89
Mean 0.004851
Std Dev 1

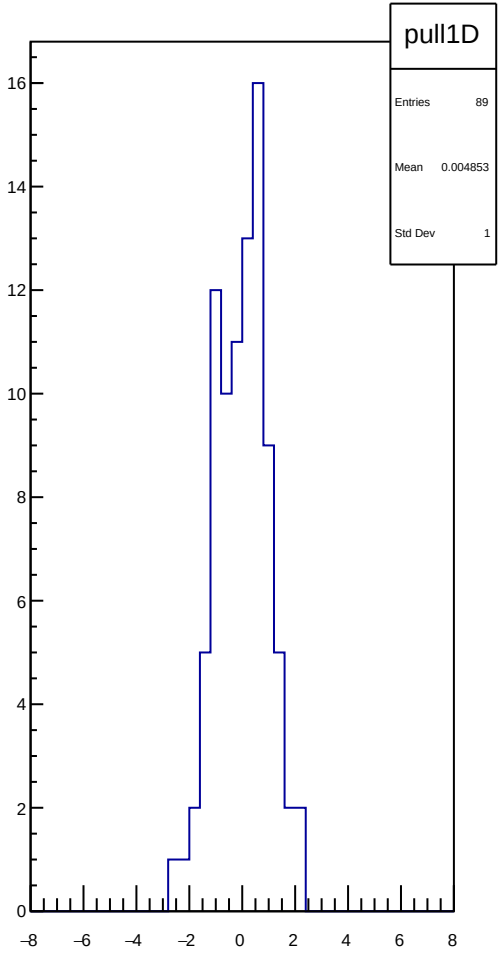

reg_asym_usl_atl2_dd_rms vs run
χ^2 / ndf 828.9 / 88
p0 992.9 ± 0.754
1040
1020
1000
980
960
940
920
900

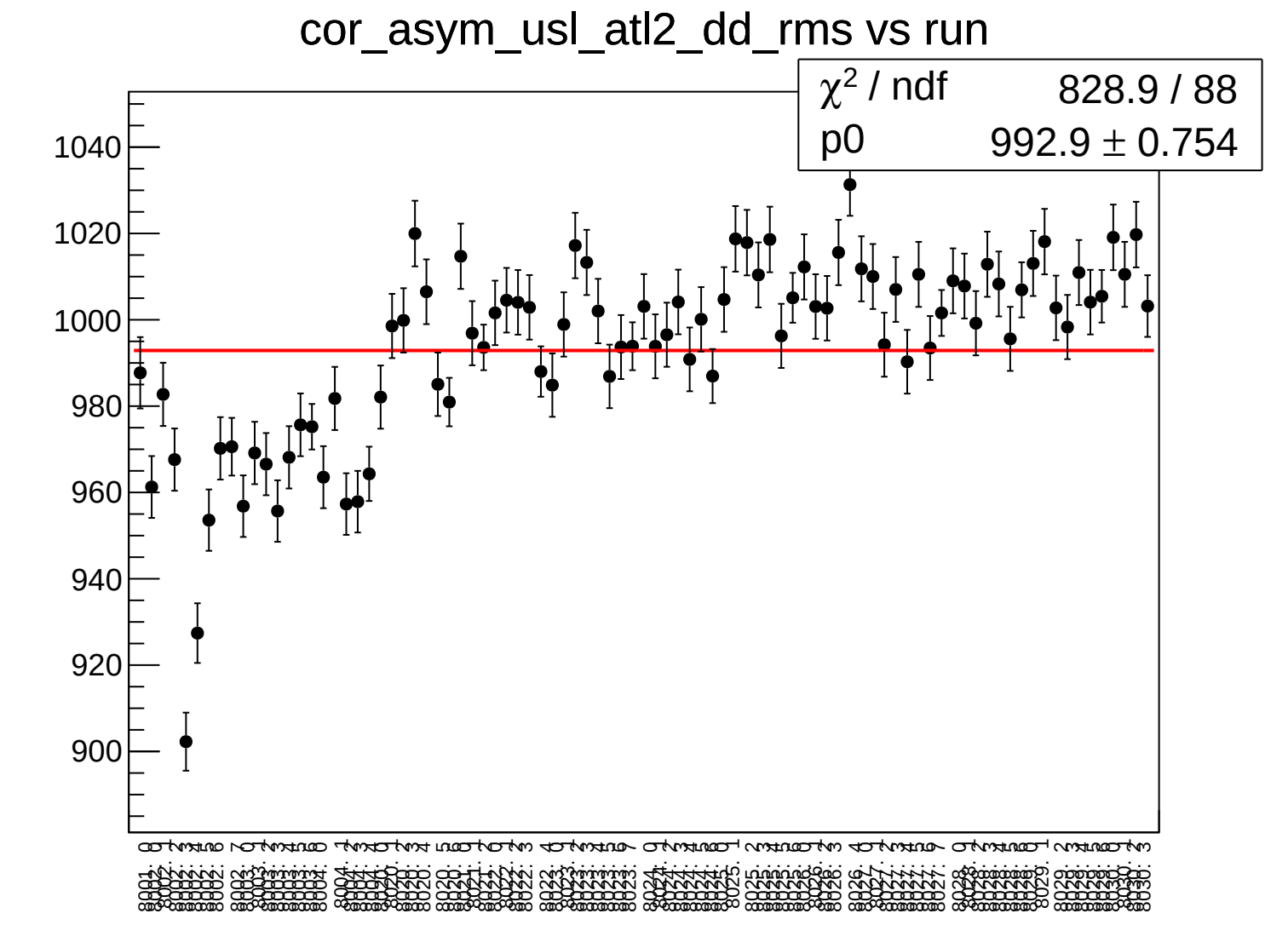

asym_usl_atl2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 96.87 / 88
p0 −517.5 ± 4452
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean 153.8
Std Dev 0
2
1
0
−1
−2

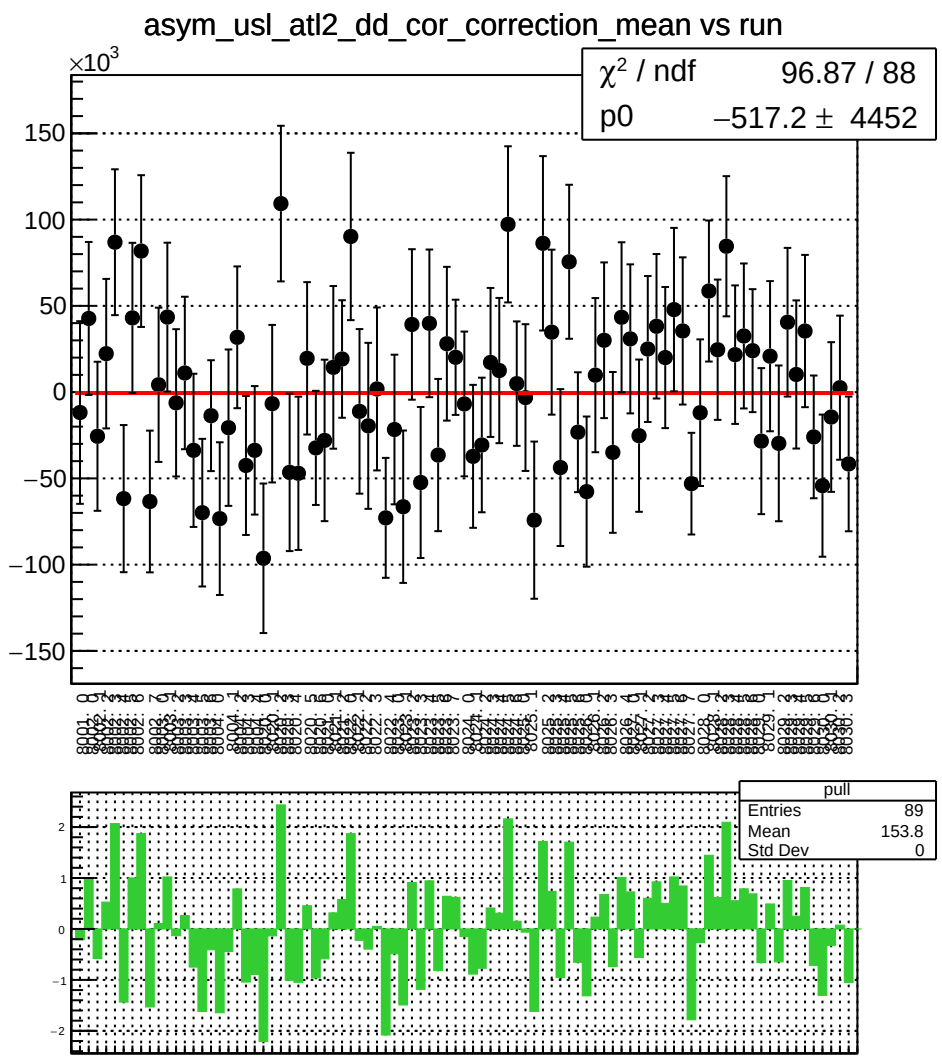

pull1D
Entries 89
Mean 0.02433
Std Dev 1.043
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

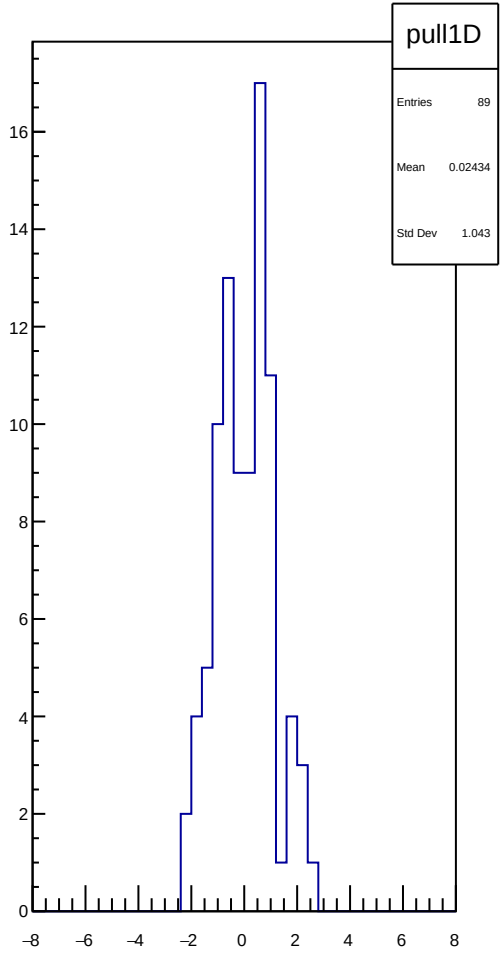

asym_usl_atl2_dd_reg_correction_rms vs run
χ² / ndf 3824 / 88
p0 4141 ± 3.148
4800
4600
4400
4200
4000
3800
3600

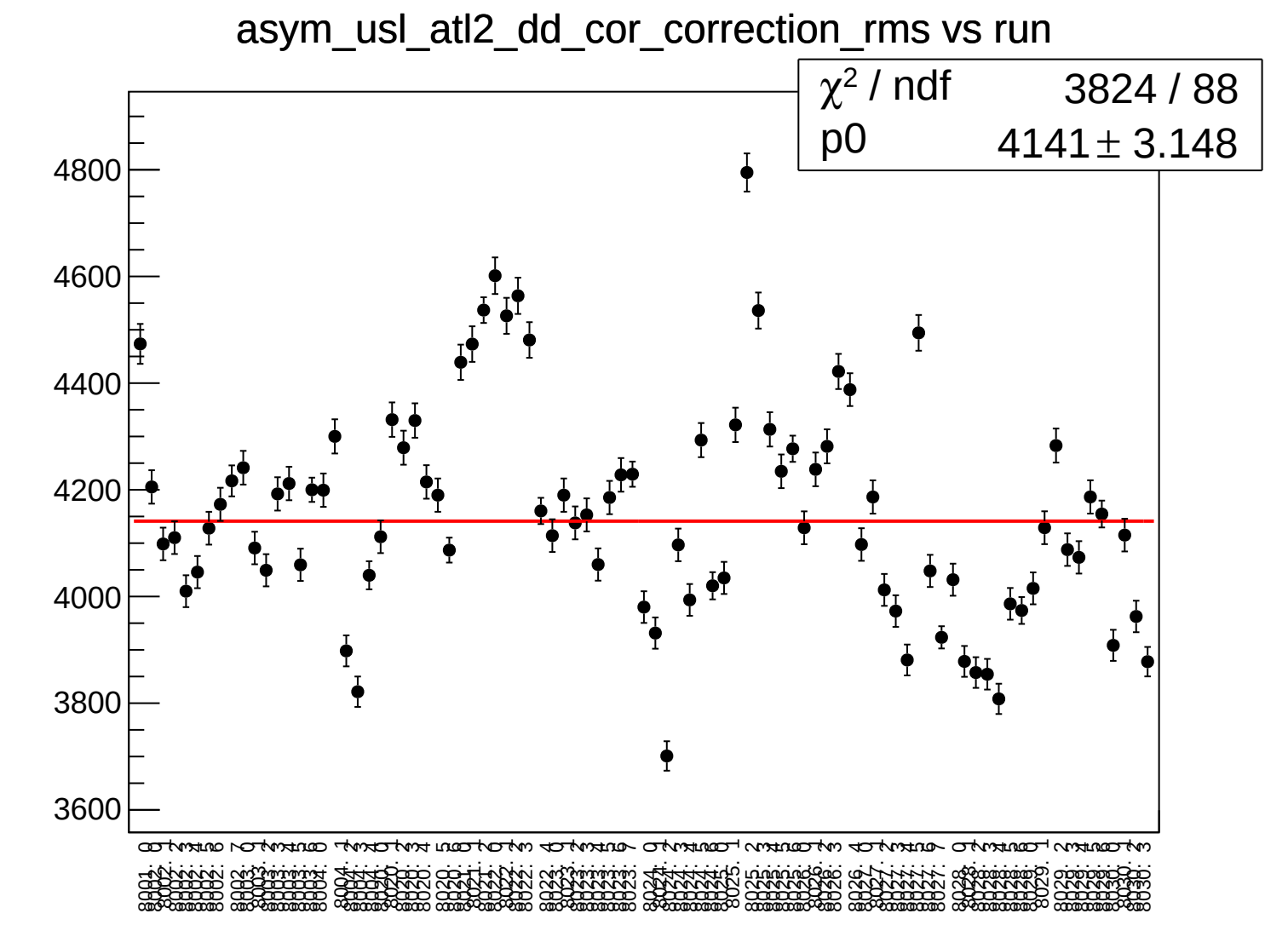

cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 89.02 / 88
p0 −551.3 ± 1066
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean −229.5
Std Dev 0
2
1
0
−1
−2

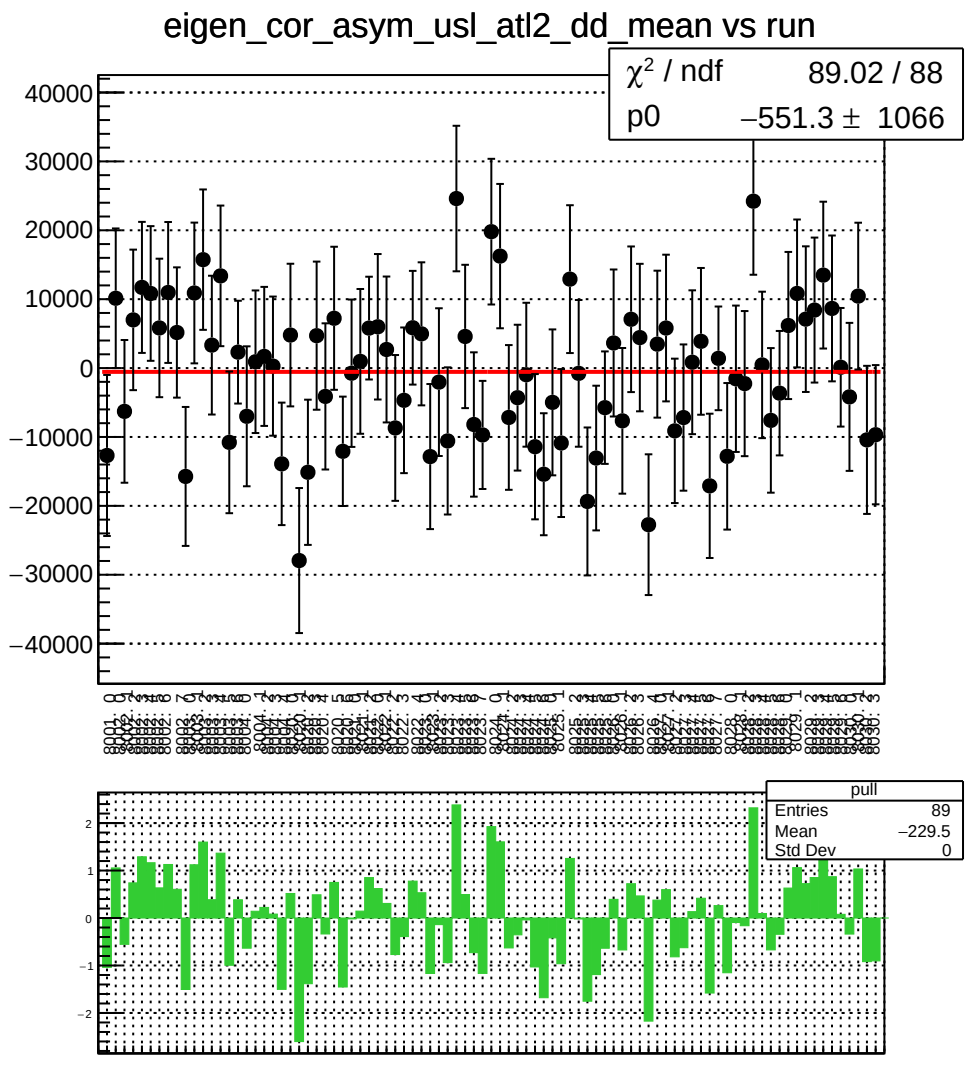

pull1D
Entries 89
Mean 0.004853
Std Dev 1
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

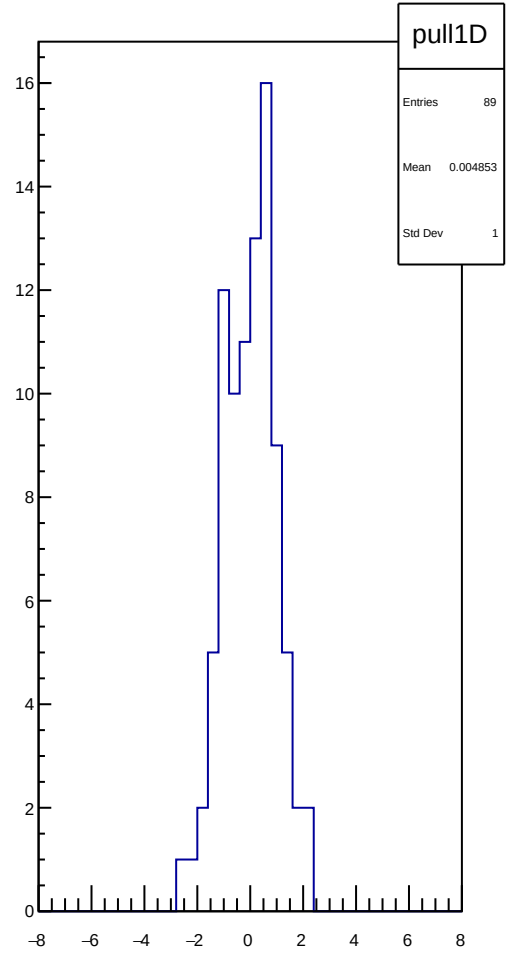

cor_asym_usl_atl2_dd_rms vs run
χ^2 / ndf 828.9 / 88
p0 992.9 ± 0.754
1040
1020
1000
980
960
940
920
900

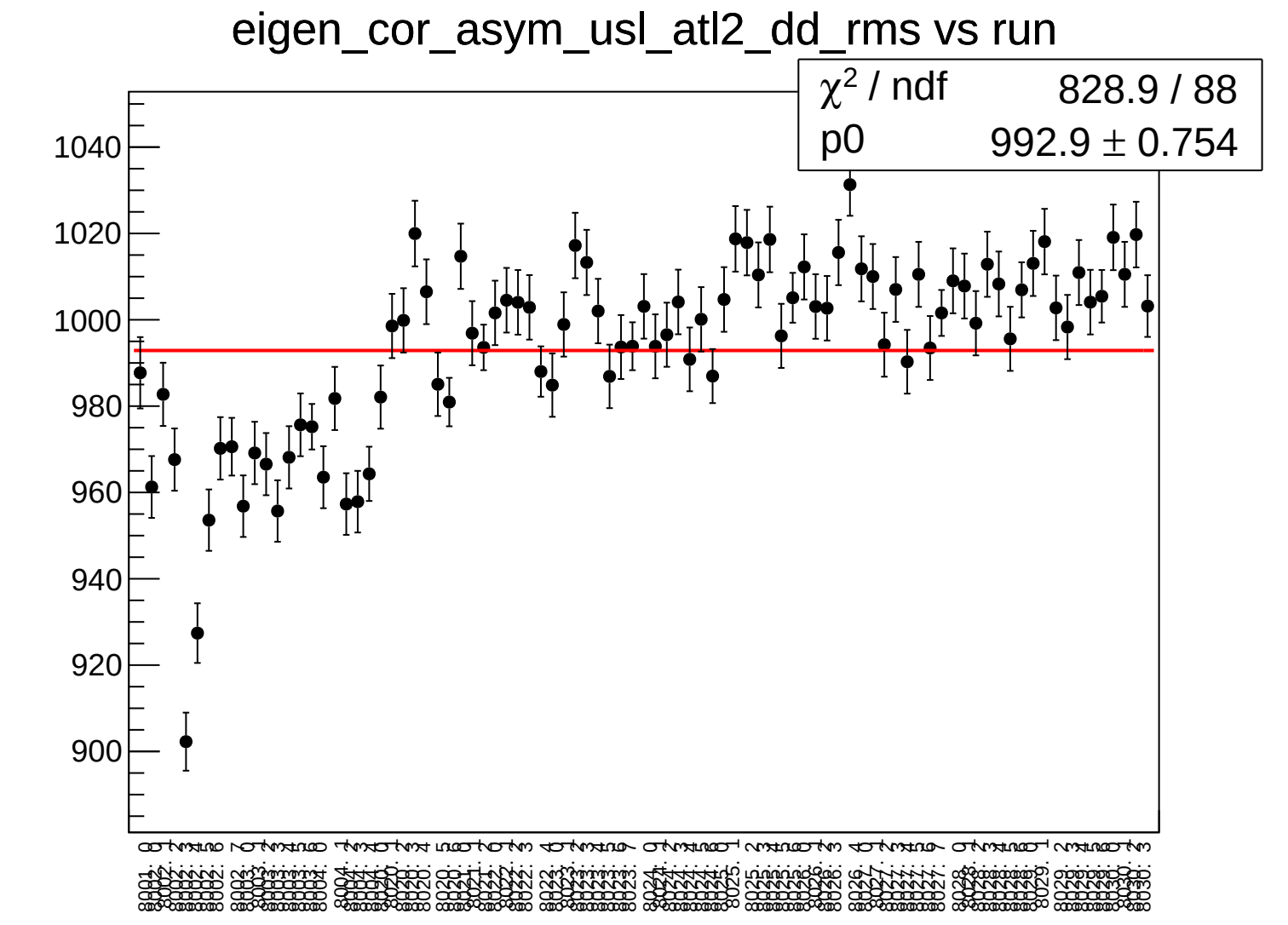

asym_usl_atl2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 96.87 / 88
p0 −517.2 ± 4452
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean 153.8
Std Dev 0
2
1
0
−1
−2

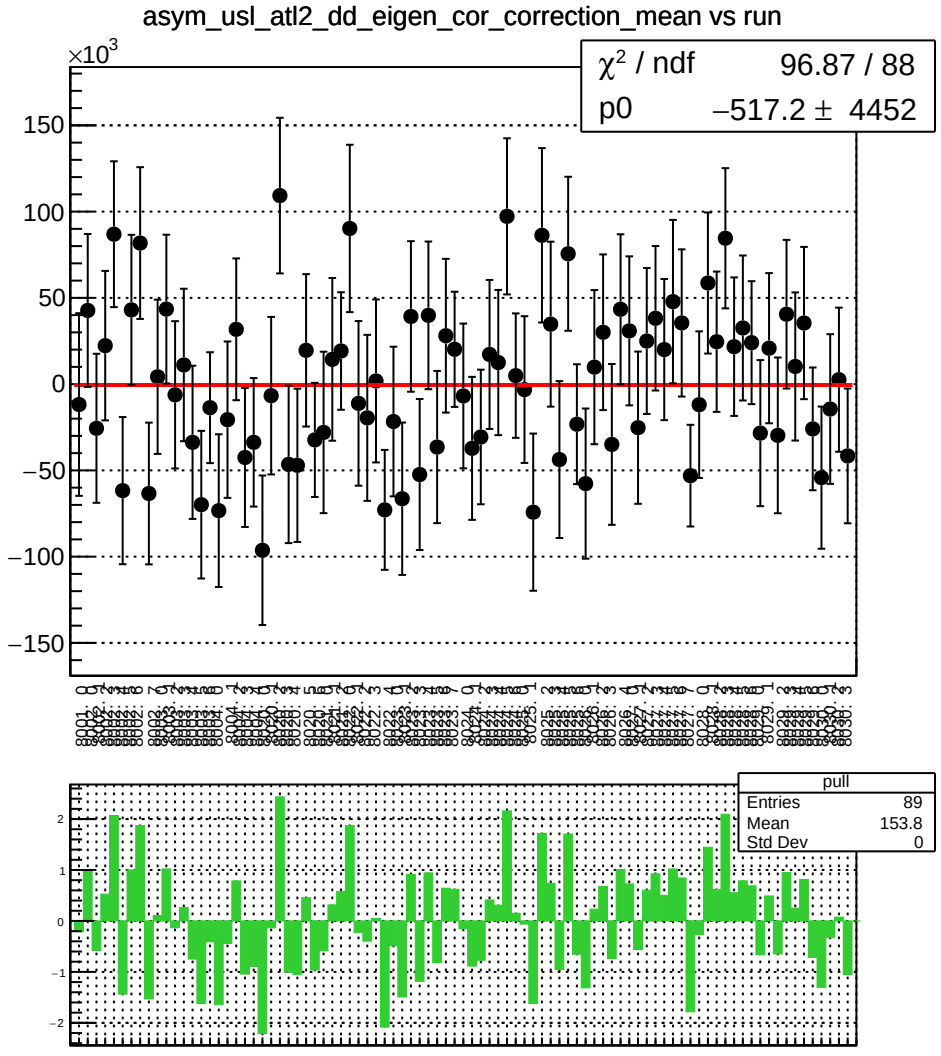

pull1D
Entries 89
Mean 0.02434
Std Dev 1.043
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

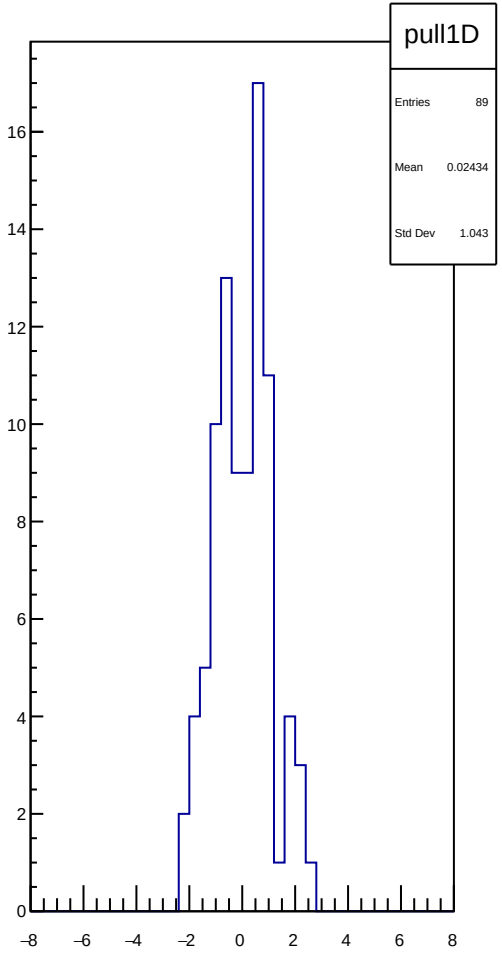

asym_usl_atl2_dd_cor_correction_rms vs run
χ² / ndf 3824 / 88
p0 4141 ± 3.148
4800
4600
4400
4200
4000
3800
3600

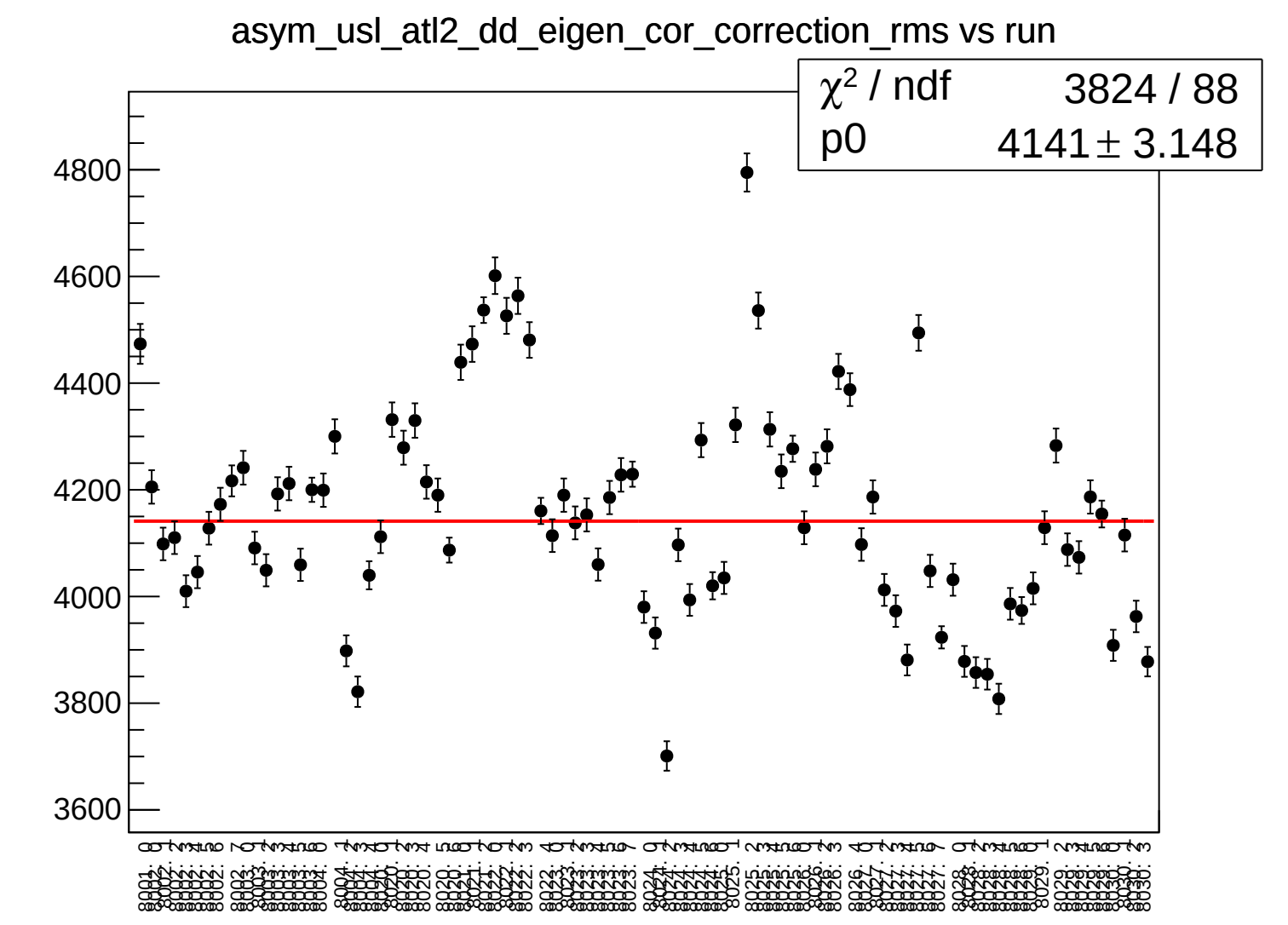

eigen_cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 89.02 / 88
p0 −551.3 ± 1066
pull
Entries 89
Mean −229.5
Std Dev 0

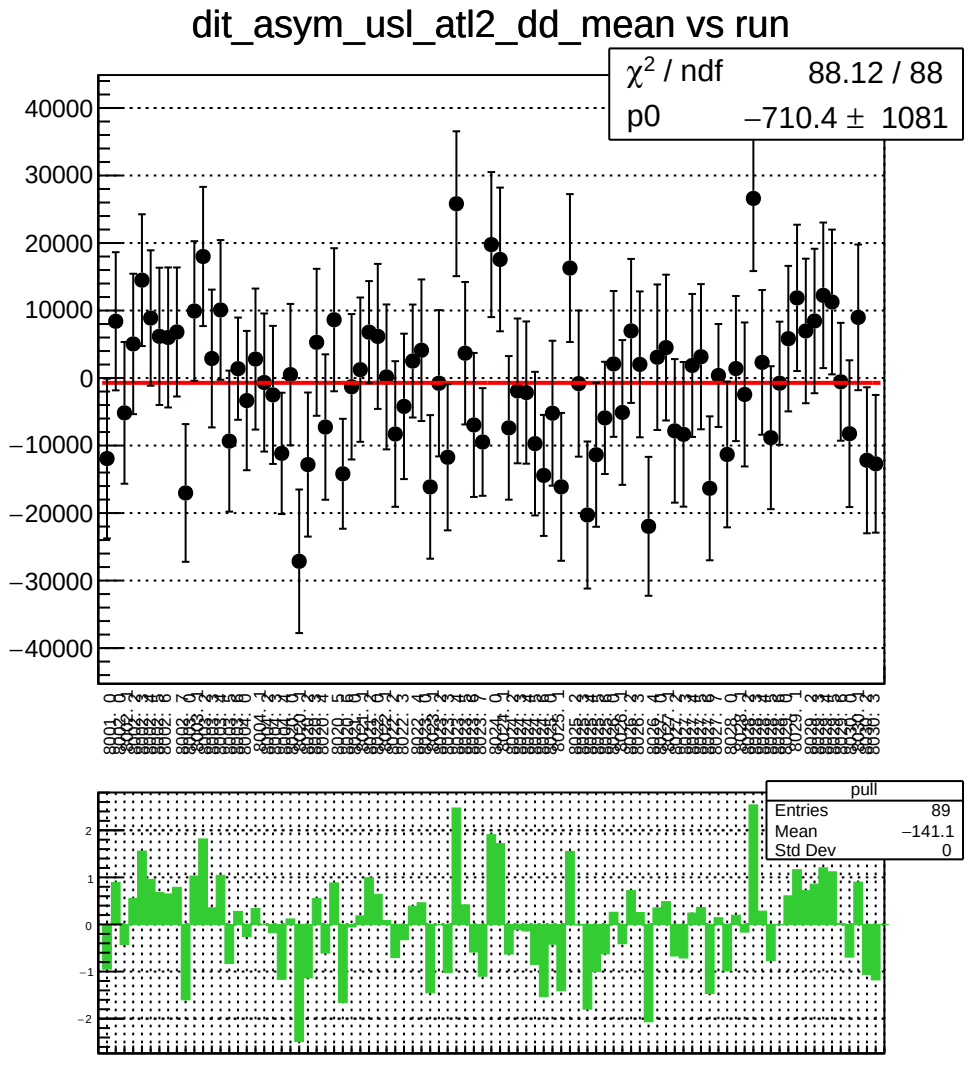

pull1D
Entries 89
Mean 0.004853
Std Dev 1

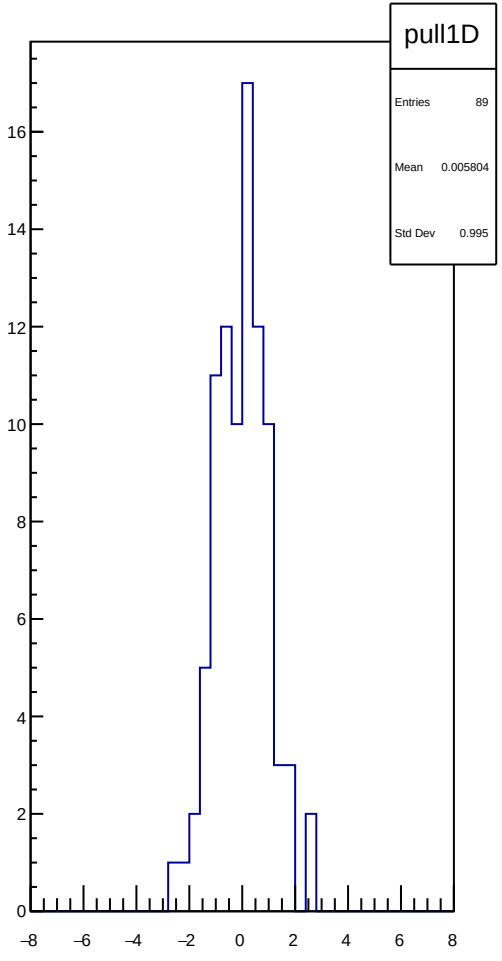

eigen_cor_asym_usl_atl2_dd_rms vs run
χ^2 / ndf 828.9 / 88
p0 992.9 ± 0.754
1040
1020
1000
980
960
940
920
900

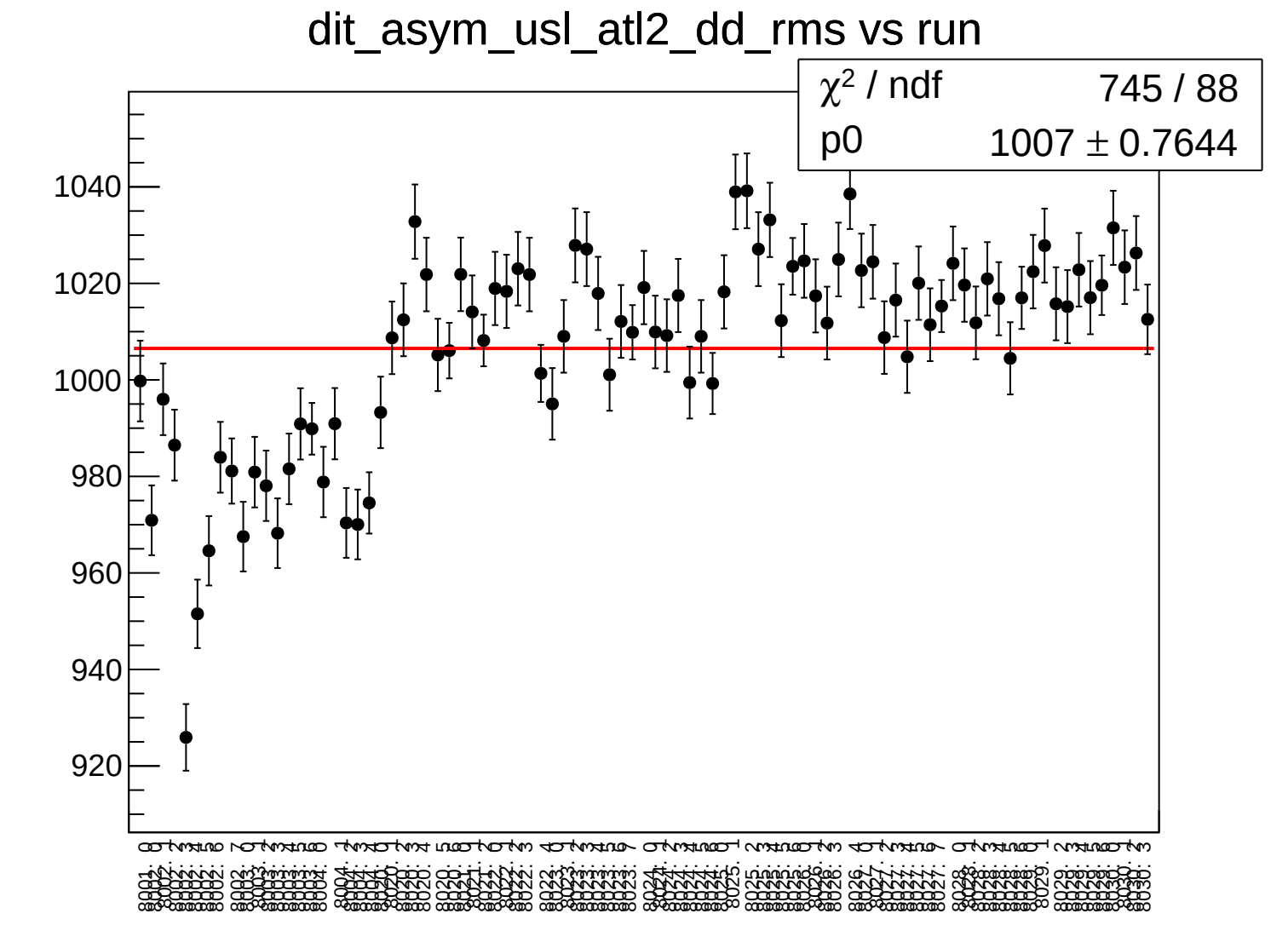

asym_usl_atl2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 96.87 / 88
p0 −517.2 ± 4452
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean 153.8
Std Dev 0
2
1
0
−1
−2

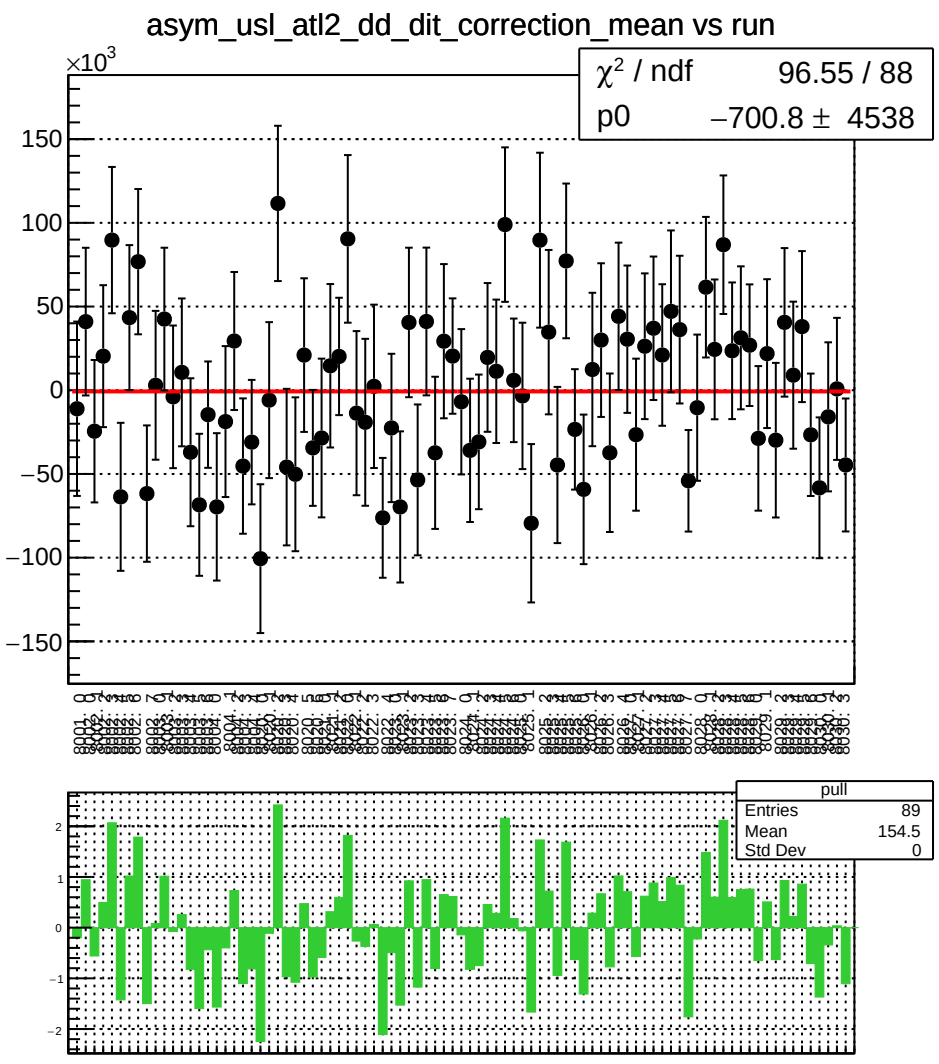

pull1D
Entries 89
Mean 0.02434
Std Dev 1.043
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

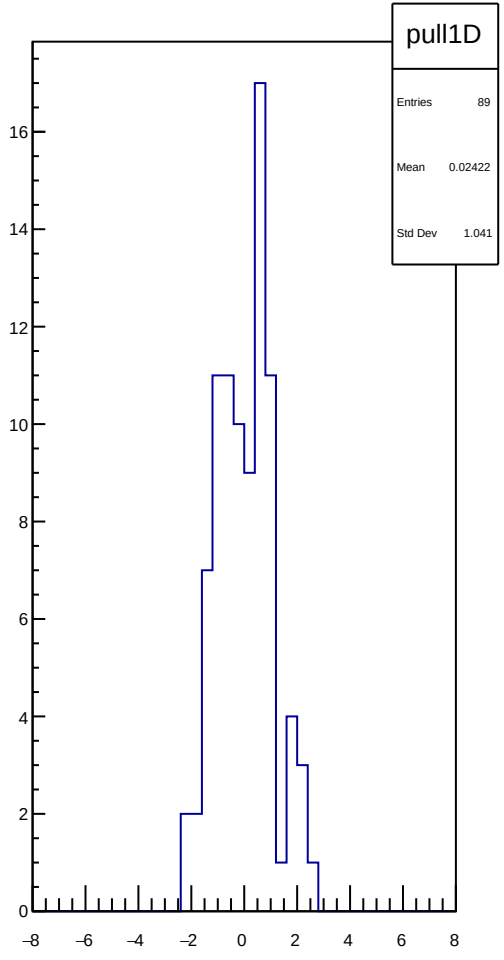

asym_usl_atl2_dd_eigen_cor_correction_rms vs run
χ² / ndf 3824 / 88
p0 4141 ± 3.148
4800
4600
4400
4200
4000
3800
3600

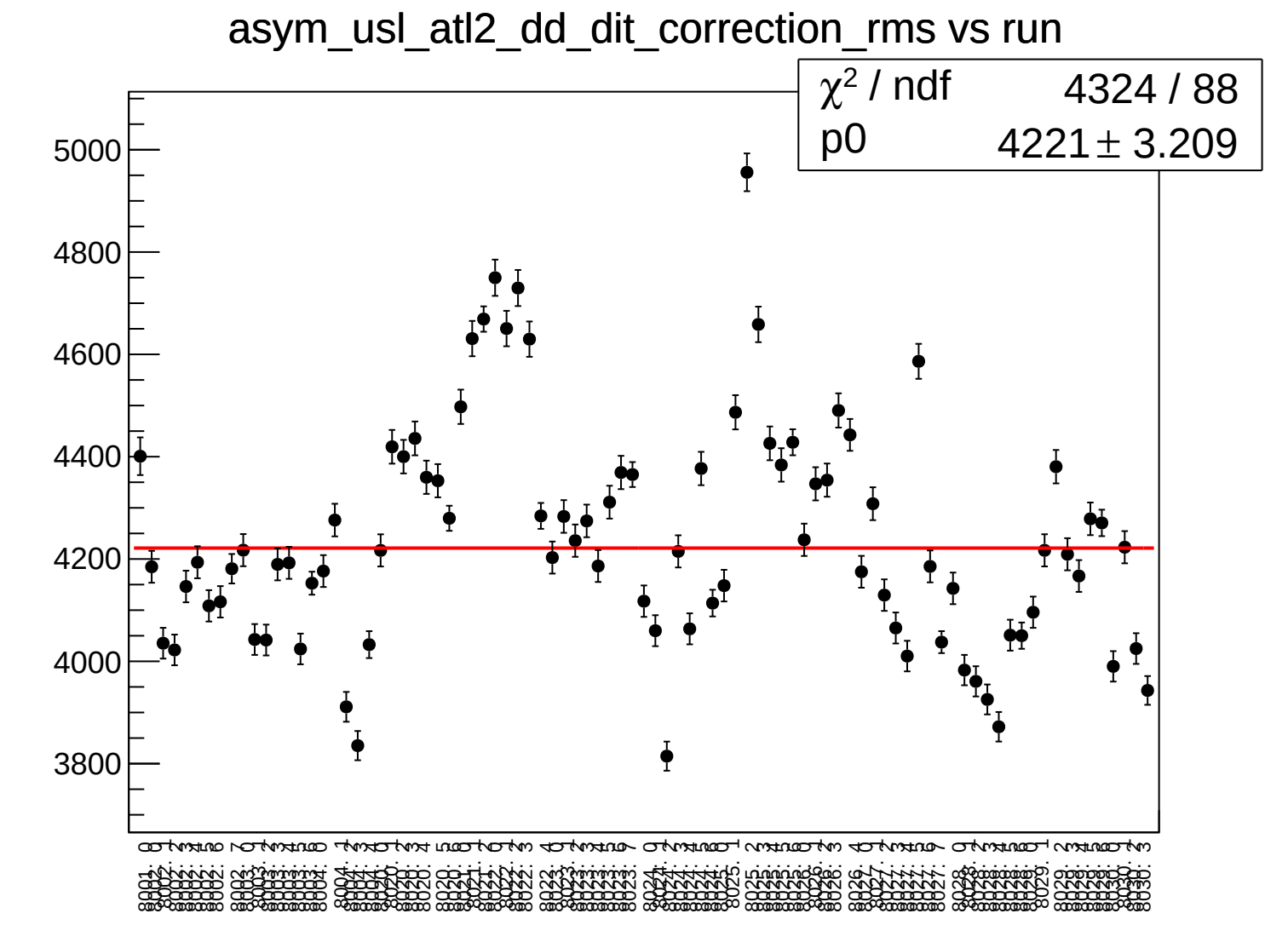

dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 88.12 / 88
p0 −710.4 ± 1081
pull
Entries 89
Mean −141.1
Std Dev 0

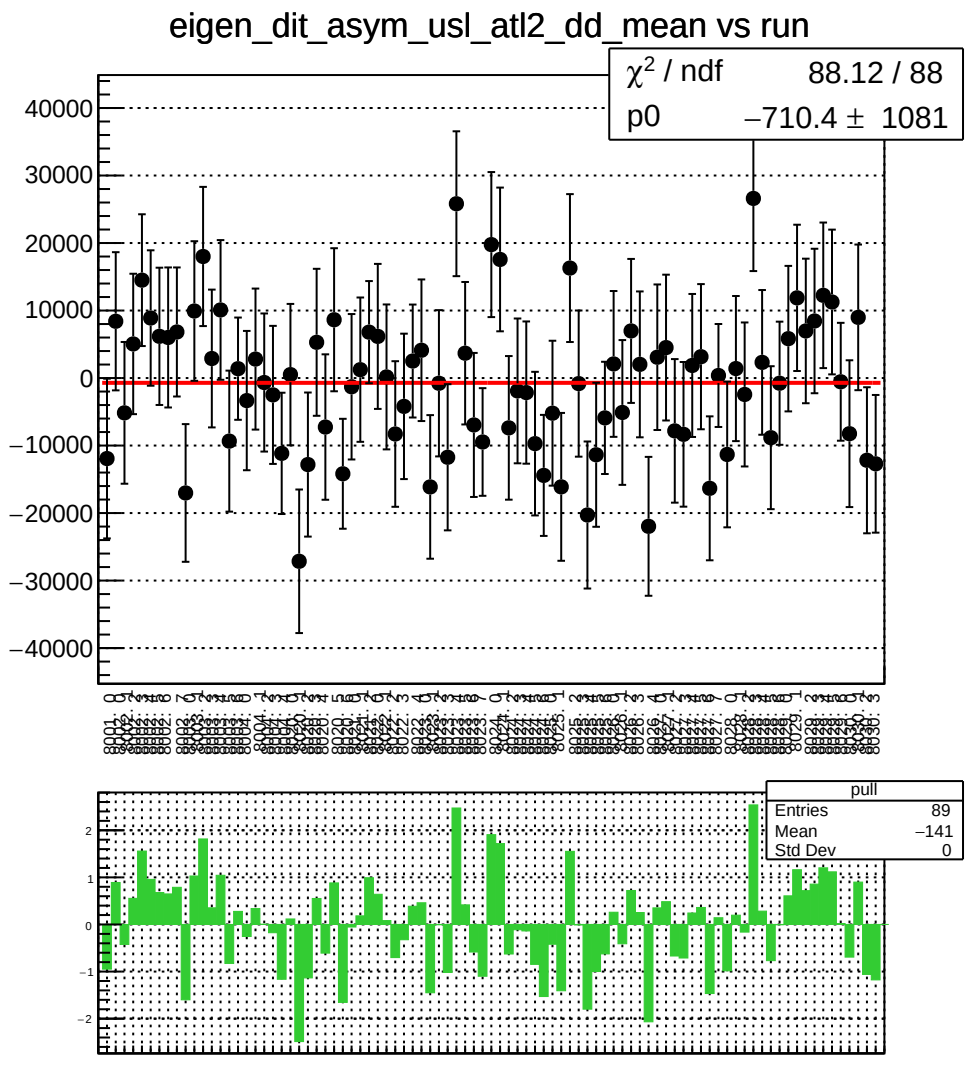

pull1D
Entries 89
Mean 0.005804
Std Dev 0.995

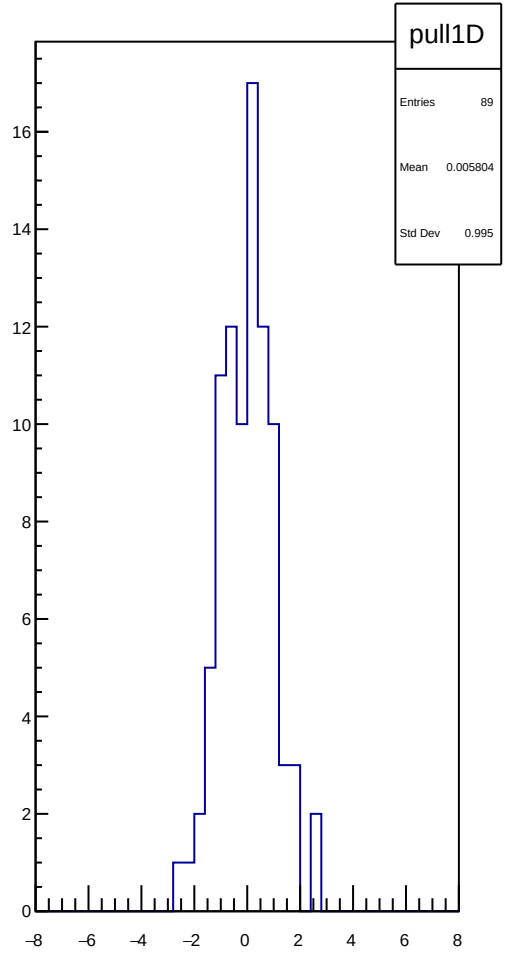

dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 745 / 88
p0 1007 ± 0.7644
1040
1020
1000
980
960
940
920

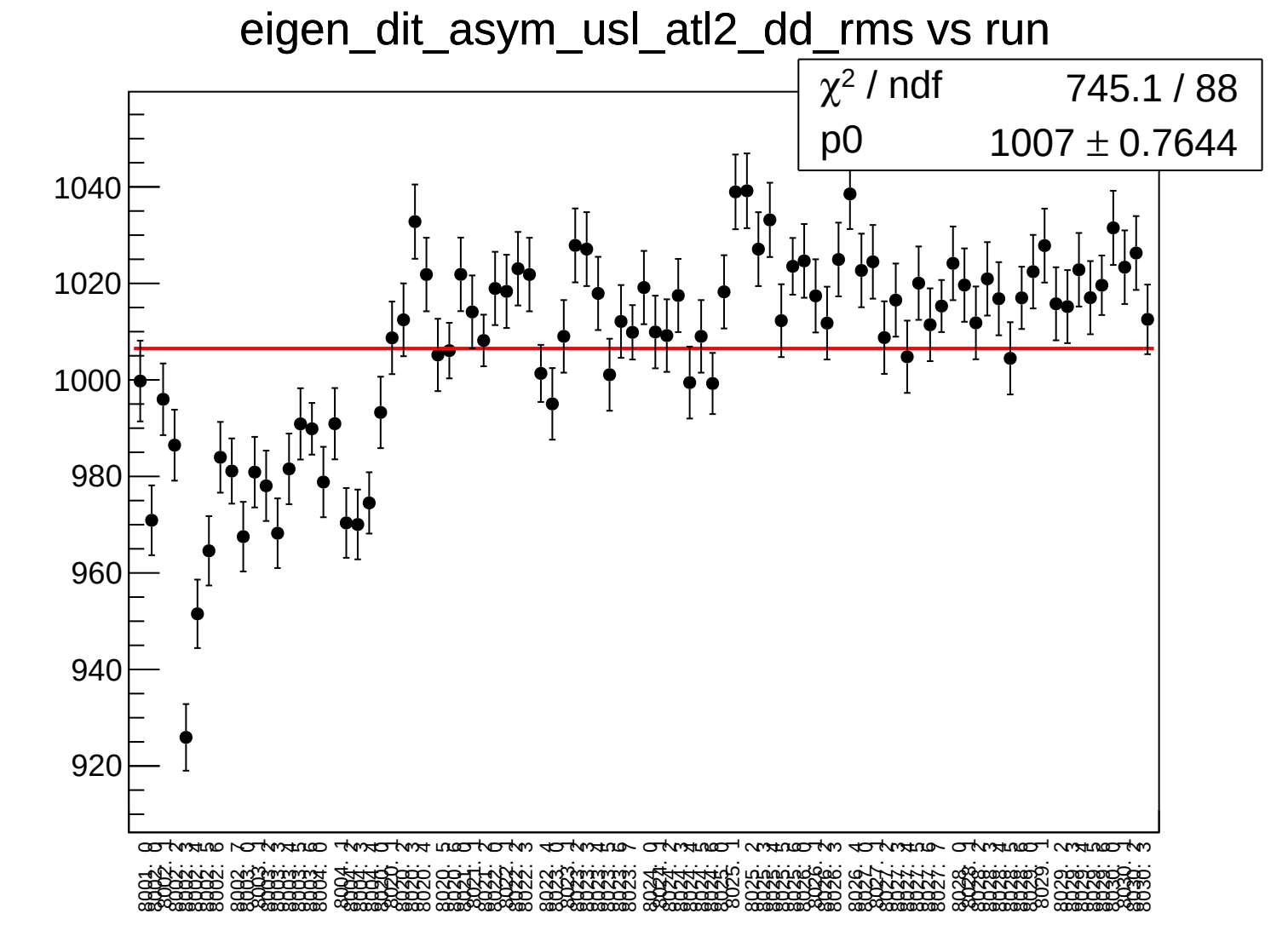

asym_usl_atl2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 96.55 / 88
p0 −700.8 ± 4538
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean 154.5
Std Dev 0
2
1
0
−1
−2

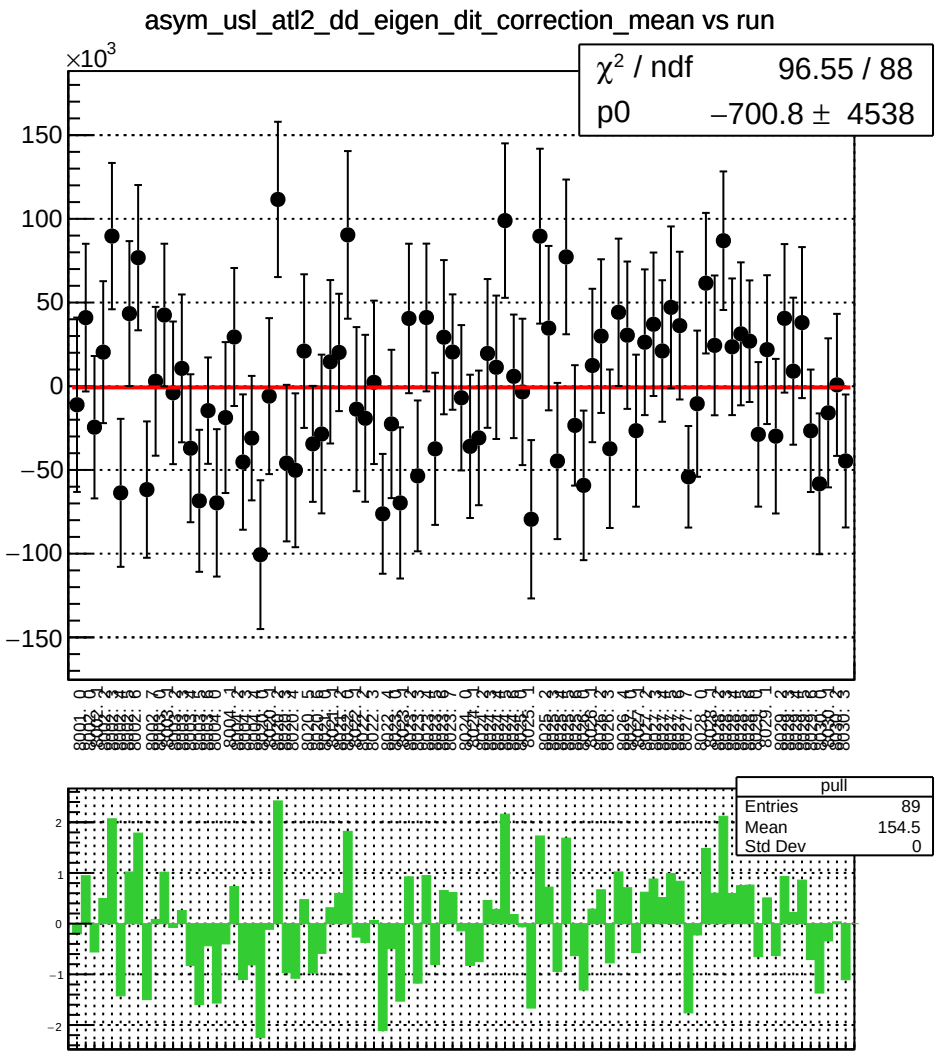

pull1D
Entries 89
Mean 0.02422
Std Dev 1.041
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

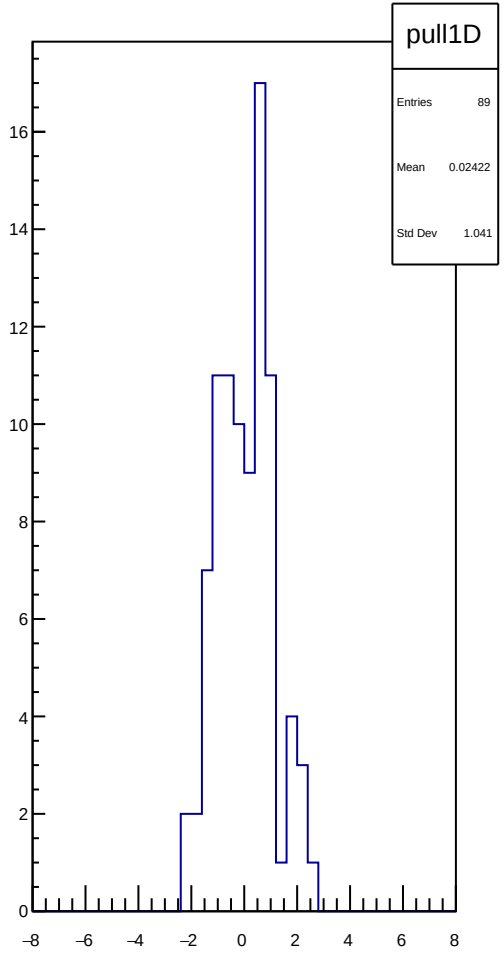

asym_usl_atl2_dd_dit_correction_rms vs run
χ² / ndf 4324 / 88
p0 4221 ± 3.209
5000
4800
4600
4400
4200
4000
3800

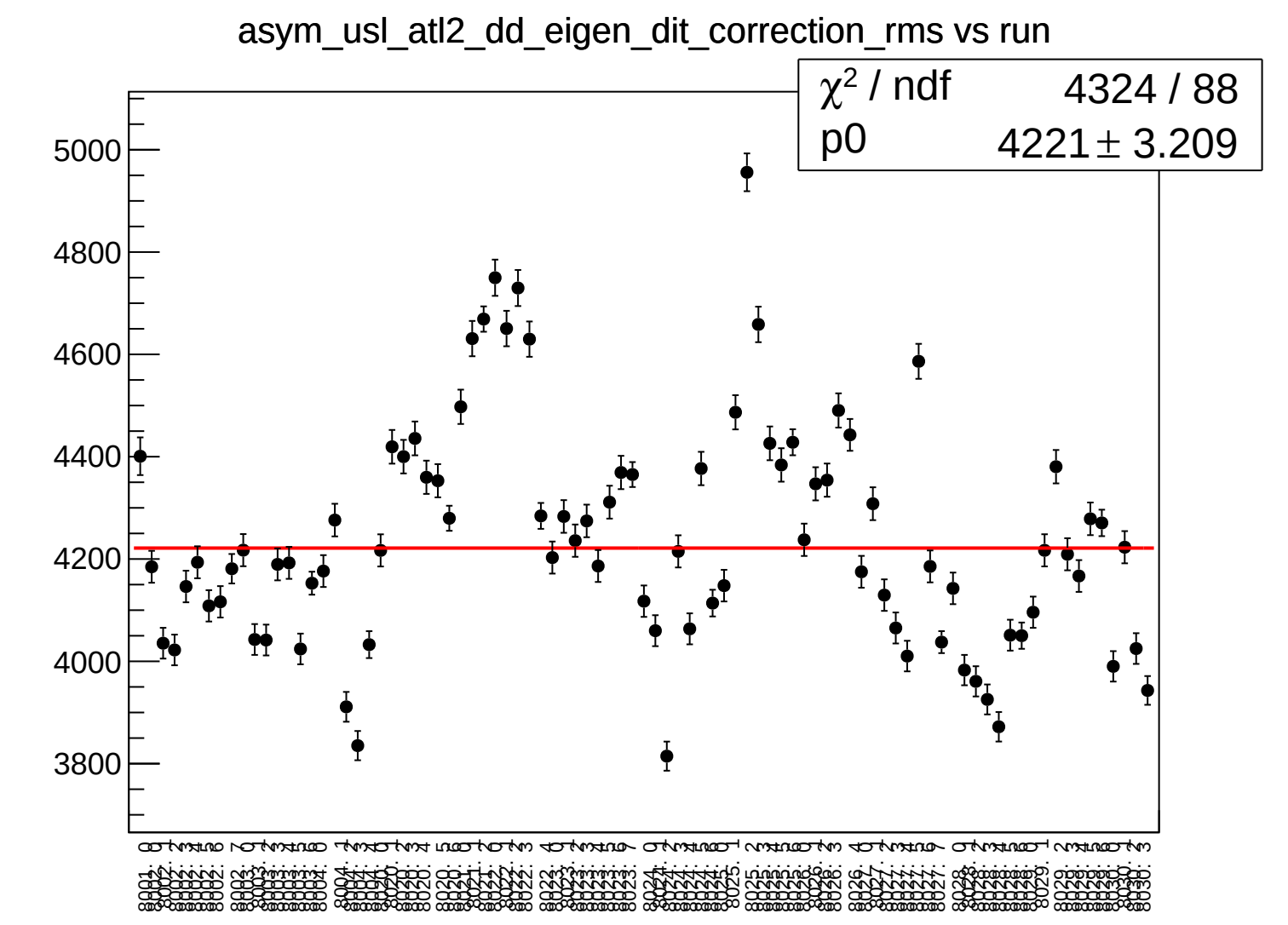

eigen_dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 88.12 / 88
p0 −710.4 ± 1081
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean −141
Std Dev 0
2
1
0
−1
−2

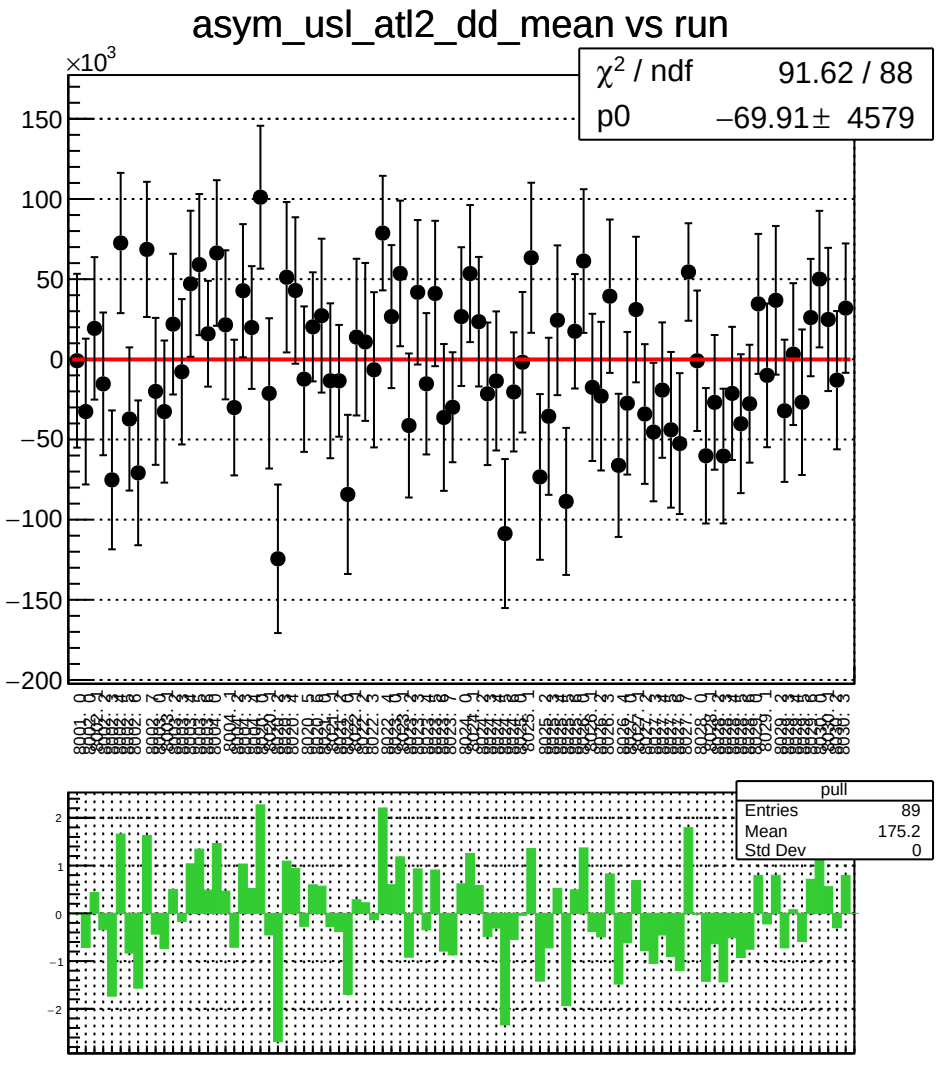

pull1D
Entries 89
Mean 0.005804
Std Dev 0.995
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

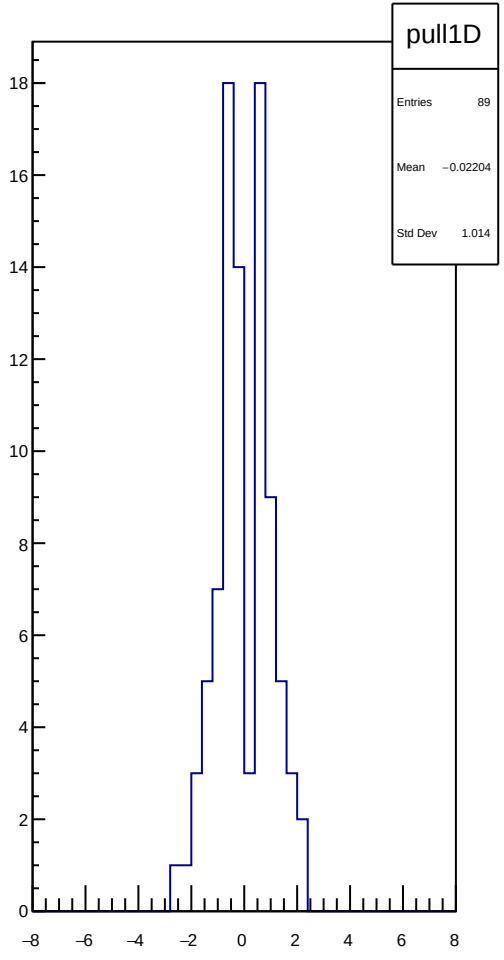

eigen_dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 745.1 / 88
p0 1007 ± 0.7644
1040
1020
1000
980
960
940
920

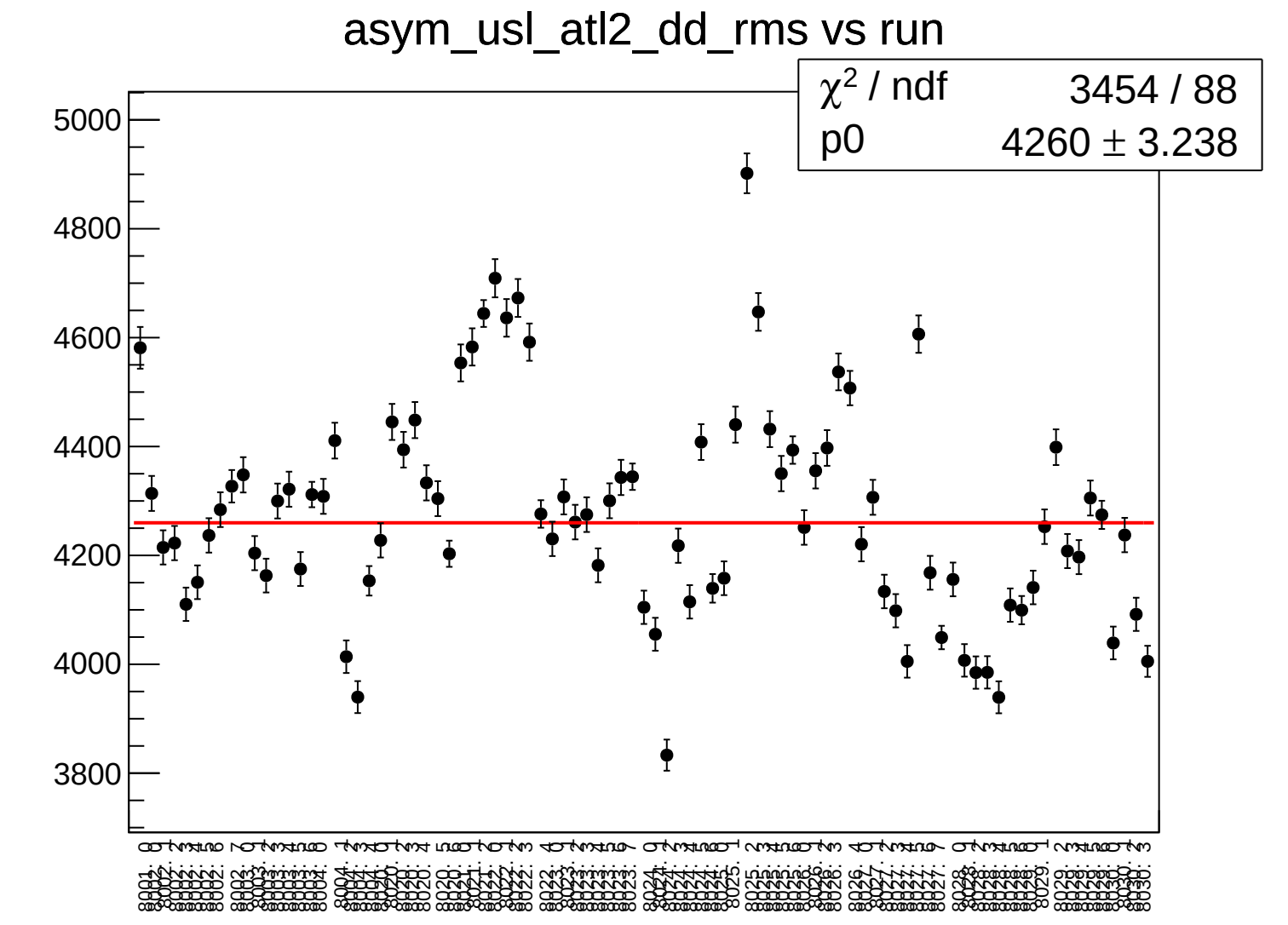

asym_usl_atl2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 96.55 / 88
p0 −700.8 ± 4538
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean 154.5
Std Dev 0
2
1
0
−1
−2

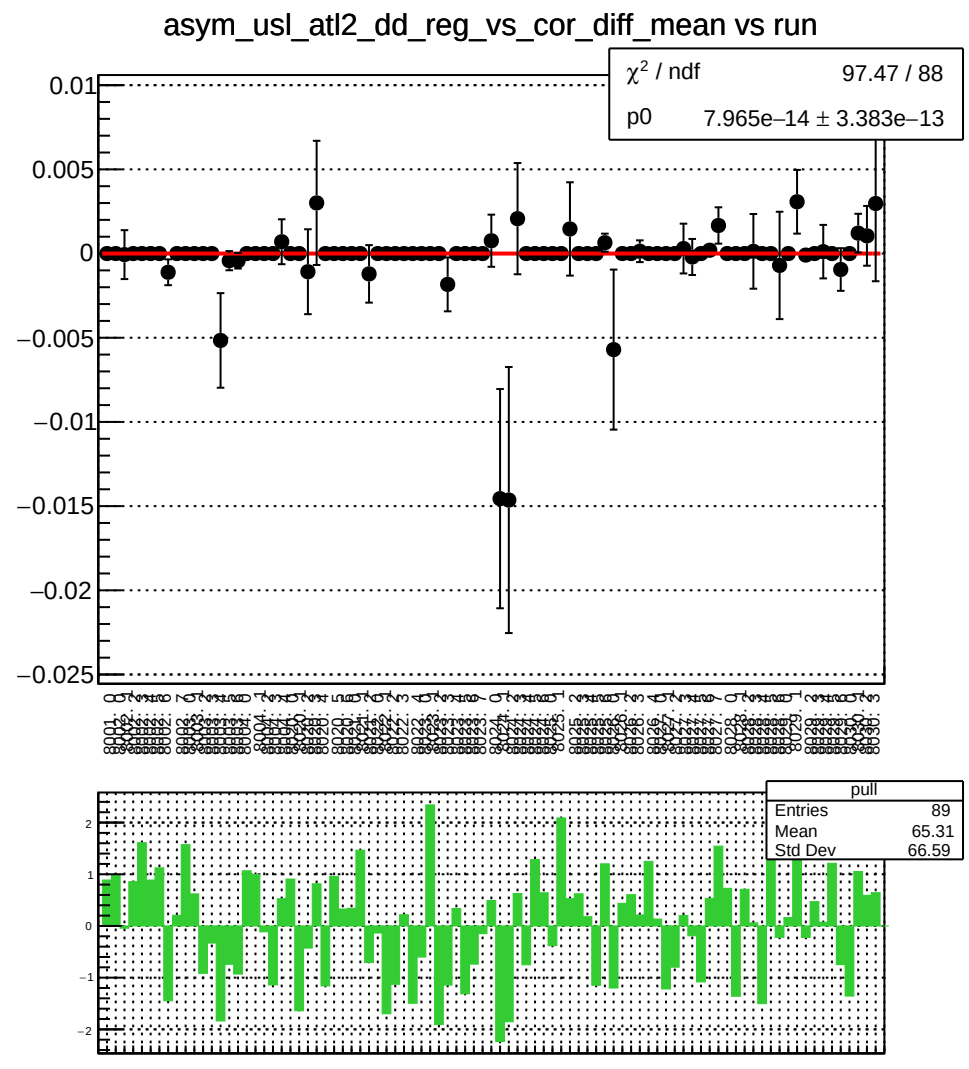

pull1D
Entries 89
Mean 0.02422
Std Dev 1.041
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

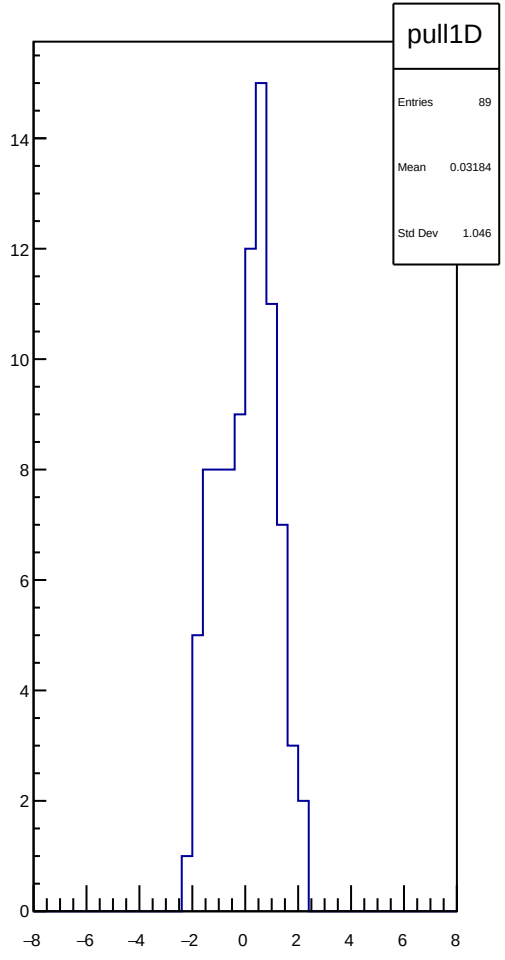

asym_usl_atl2_dd_eigen_dit_correction_rms vs run
χ² / ndf 4324 / 88
p0 4221 ± 3.209
5000
4800
4600
4400
4200
4000
3800

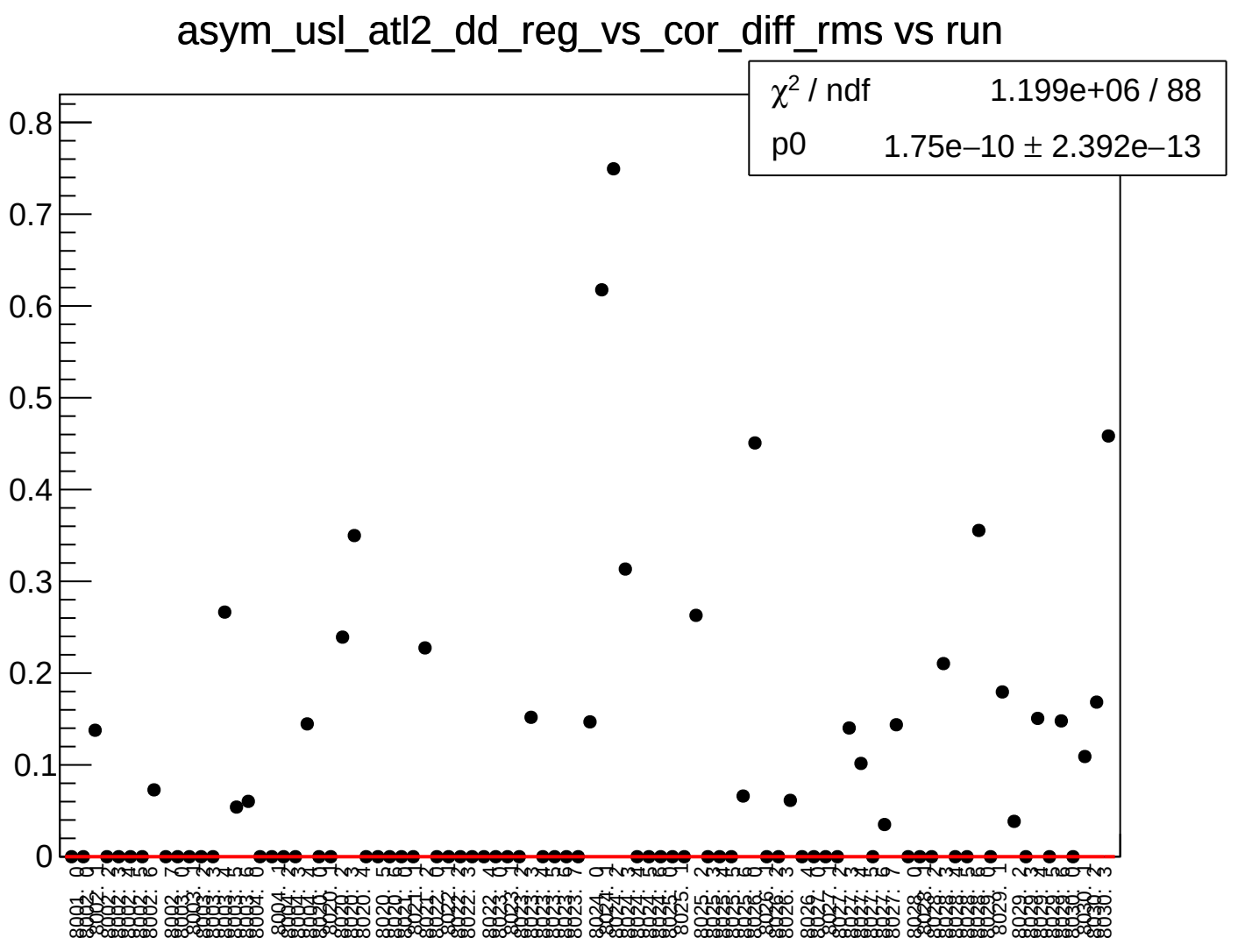

asym_usl_atl2_dd_mean vs run
×10^3
χ^2 / ndf 91.62 / 88
p0 −69.91± 4579
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean 175.2
Std Dev 0
2
1
0
−1
−2

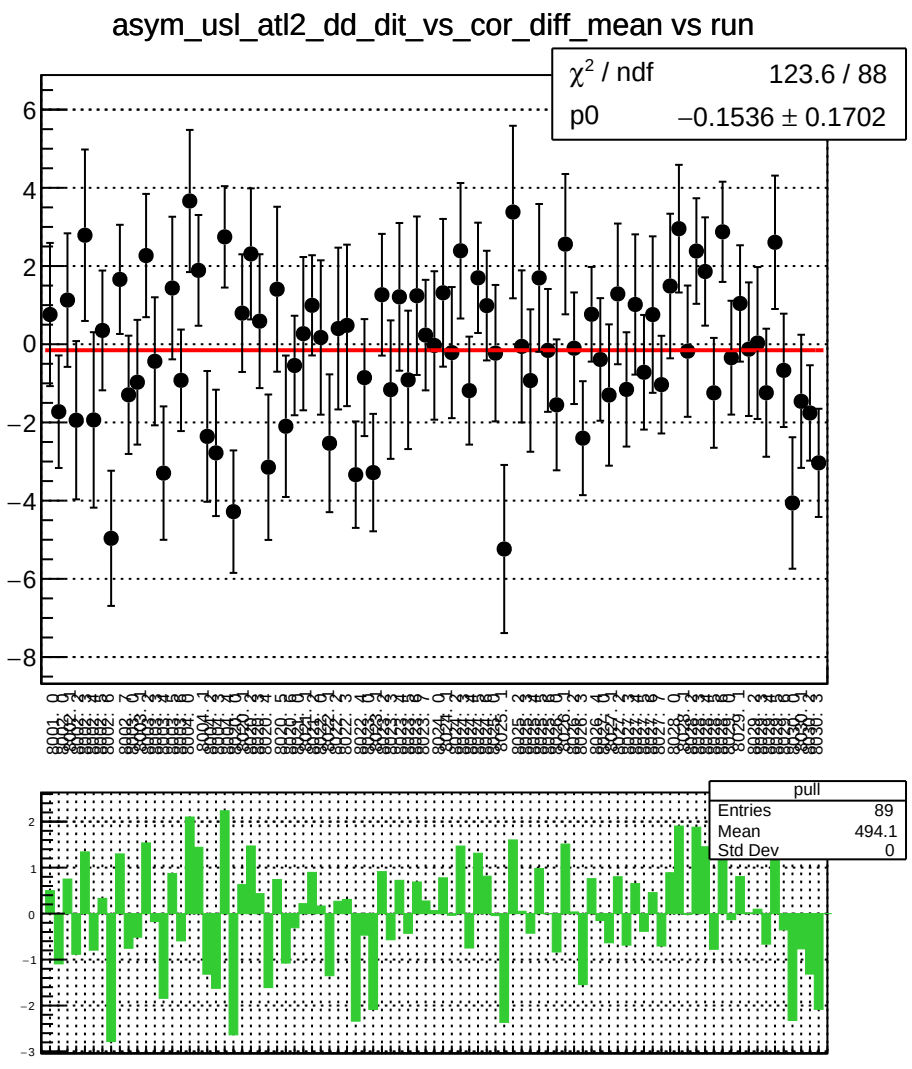

pull1D
Entries 89
Mean −0.02204
Std Dev 1.014
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

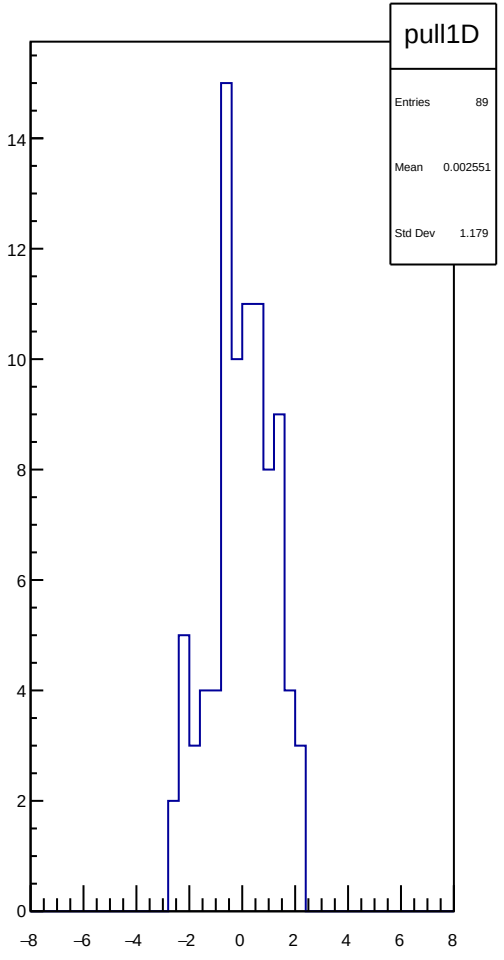

asym_usl_atl2_dd_rms vs run
χ² / ndf 3454 / 88
p0 4260 ± 3.238
5000
4800
4600
4400
4200
4000
3800

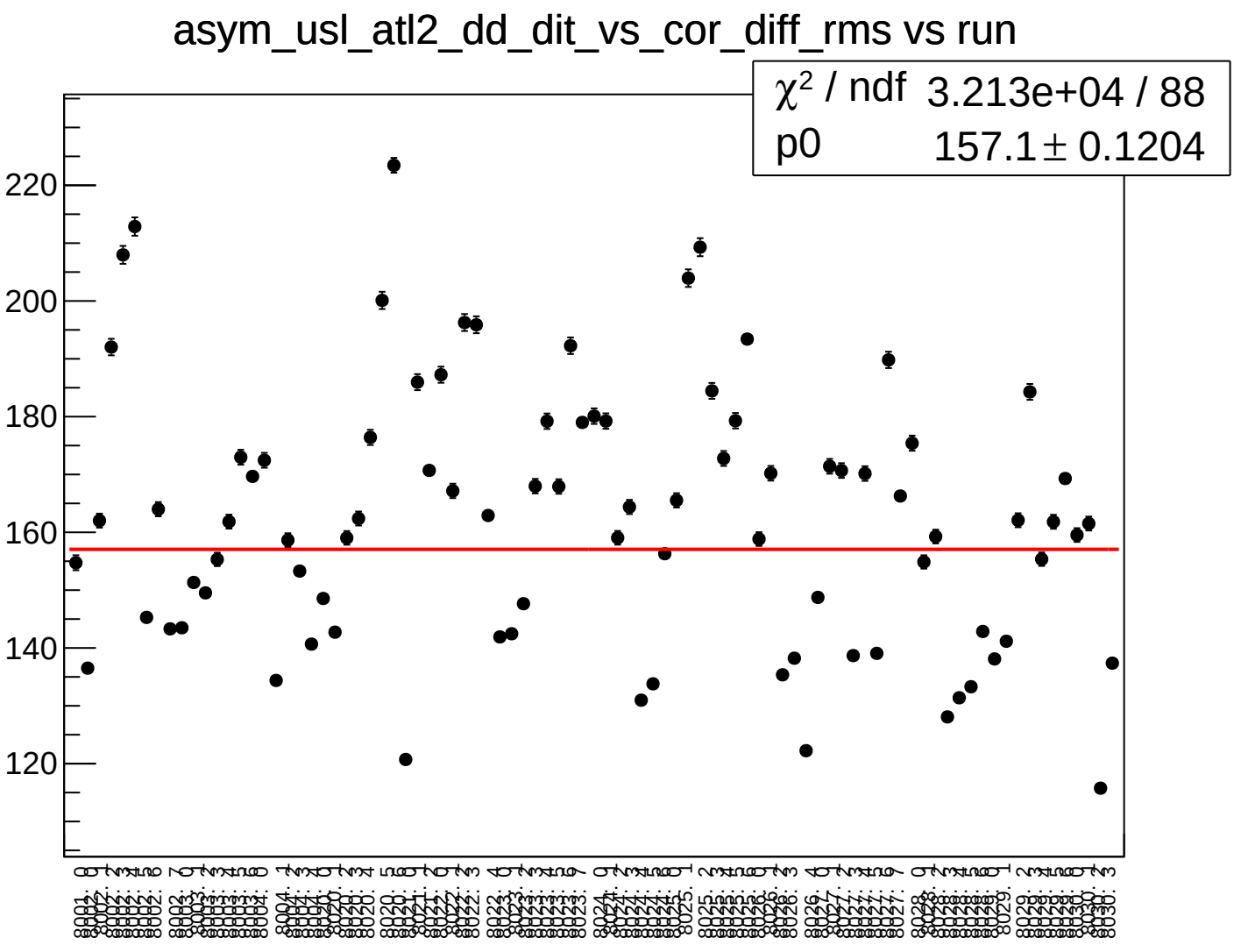

asym_usl_atl2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 97.47 / 88
p0 7.965e−14 ± 3.383e−13
pull
Entries 89
Mean 65.31
Std Dev 66.59

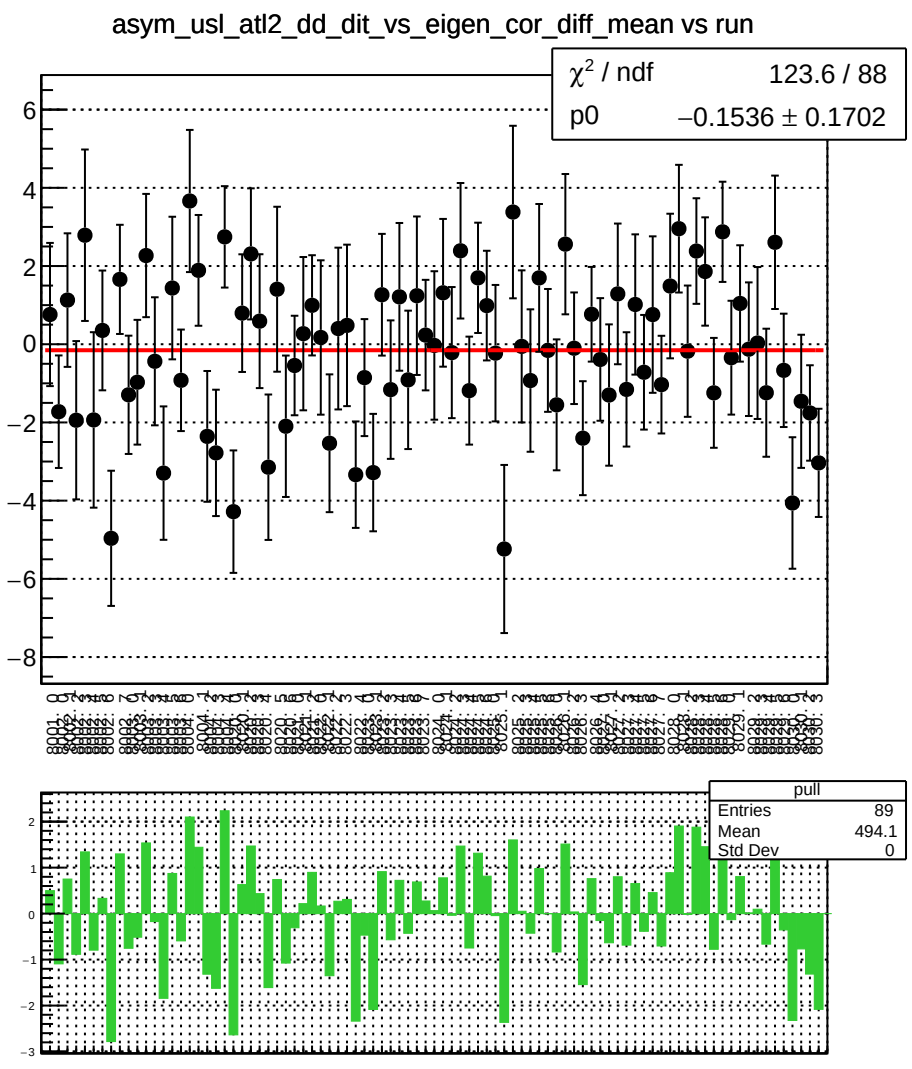

pull1D
Entries 89
Mean 0.03184
Std Dev 1.046

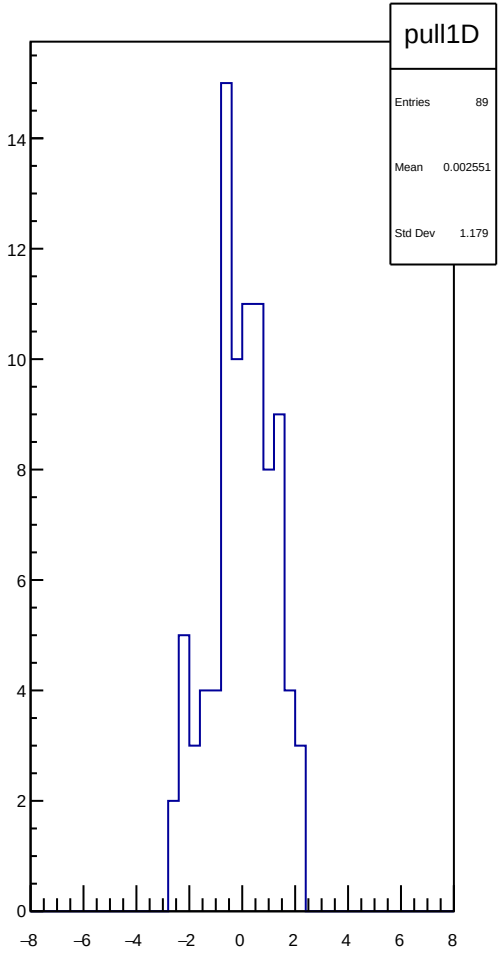

asym_usl_atl2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.199e+06 / 88
p0 1.75e−10 ± 2.392e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

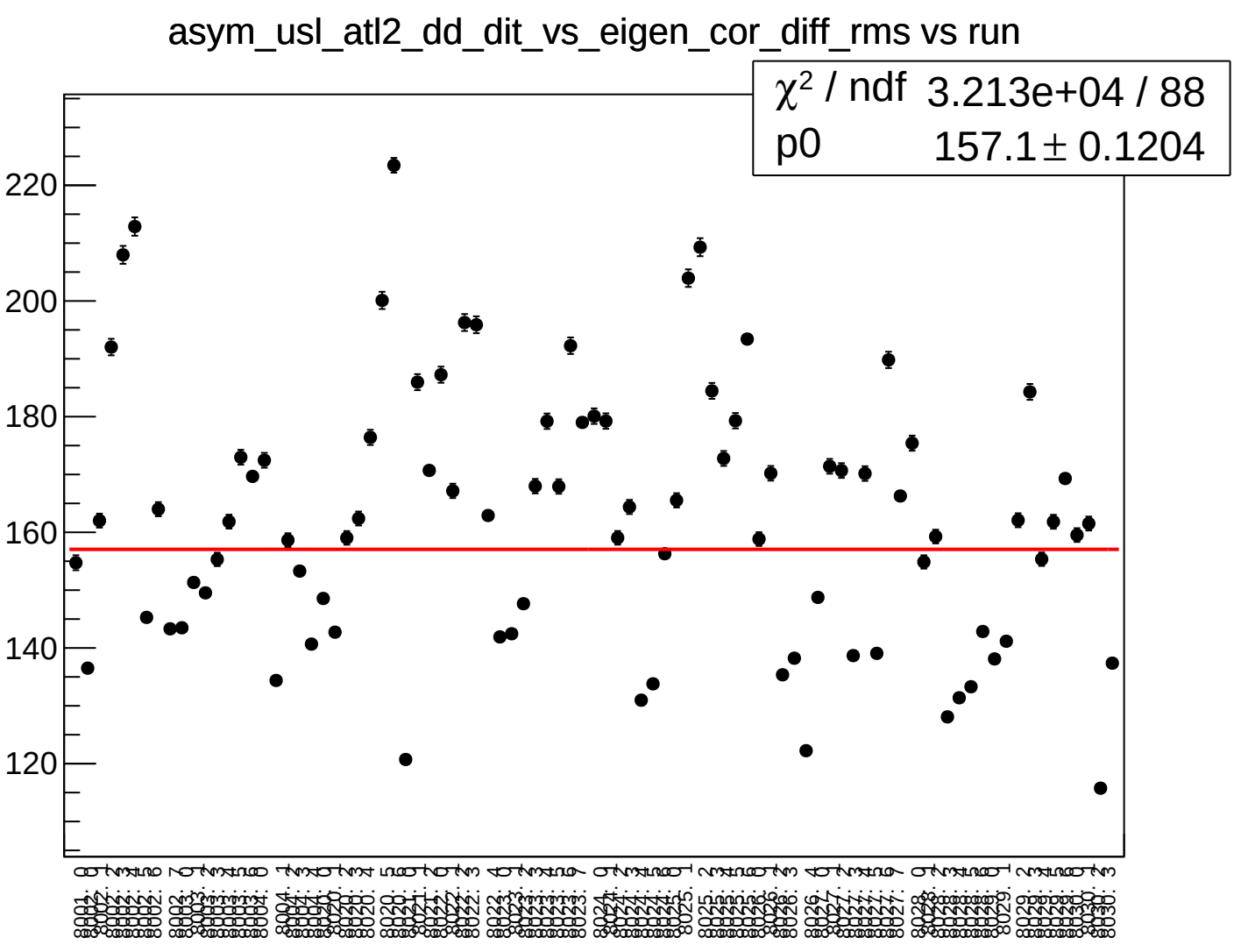

asym_usl_atl2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 123.6 / 88
p0 −0.1536 ± 0.1702
pull
Entries 89
Mean 494.1
Std Dev 0

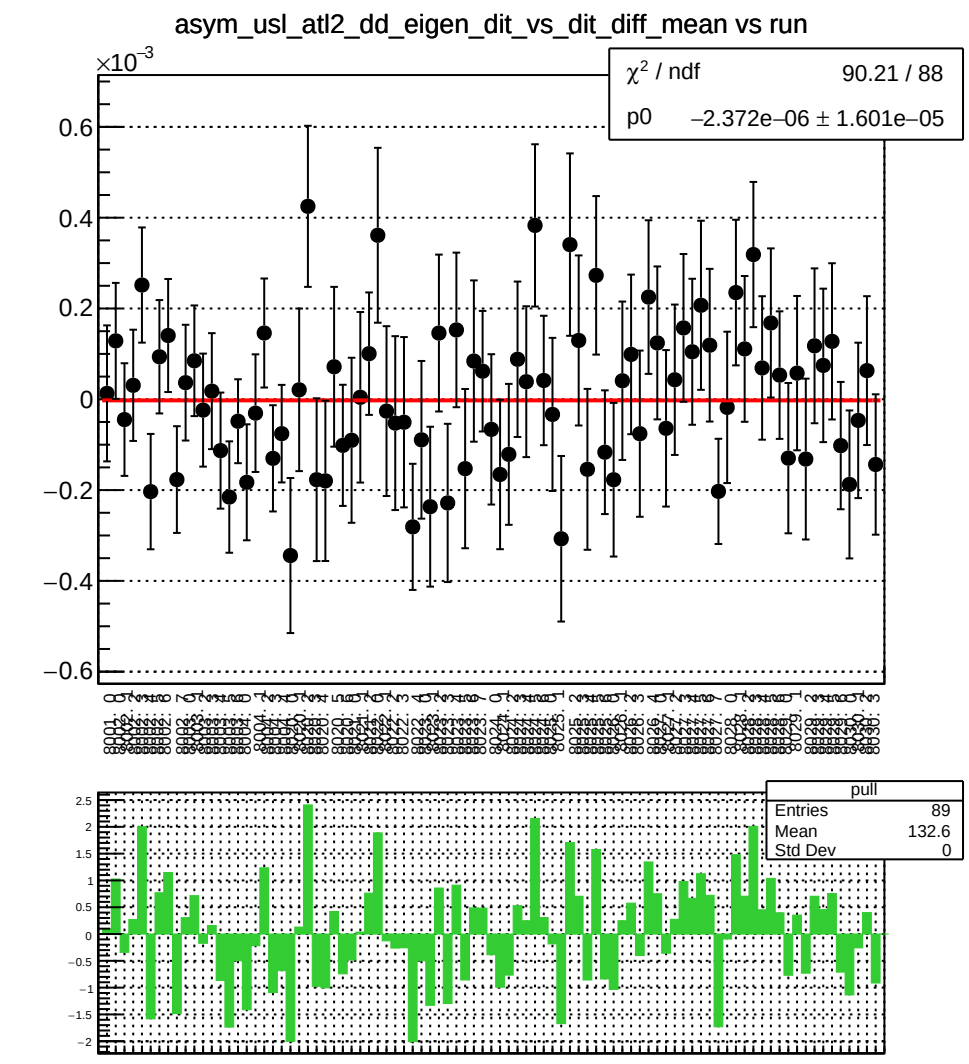

pull1D
Entries 89
Mean 0.002551
Std Dev 1.179

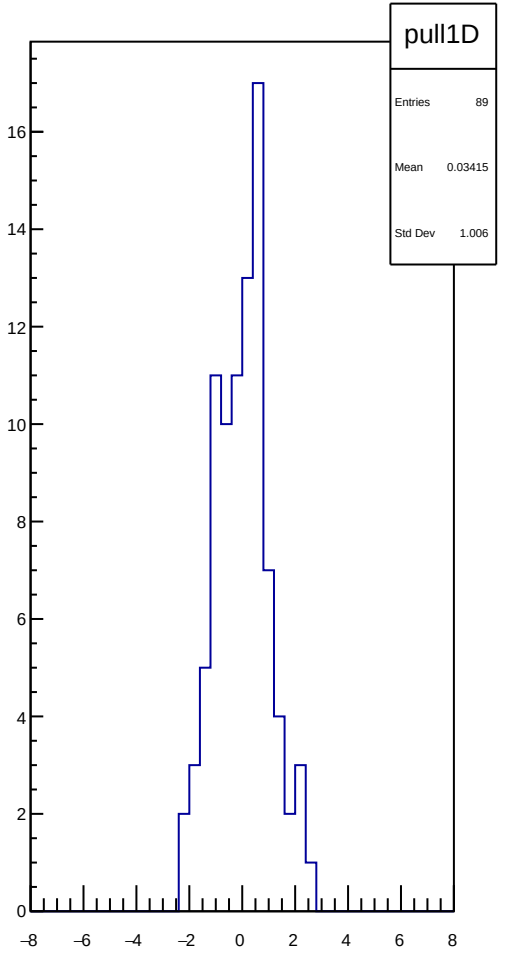

asym_usl_atl2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.213e+04 / 88
p0 157.1 ± 0.1204
220
200
180
160
140
120

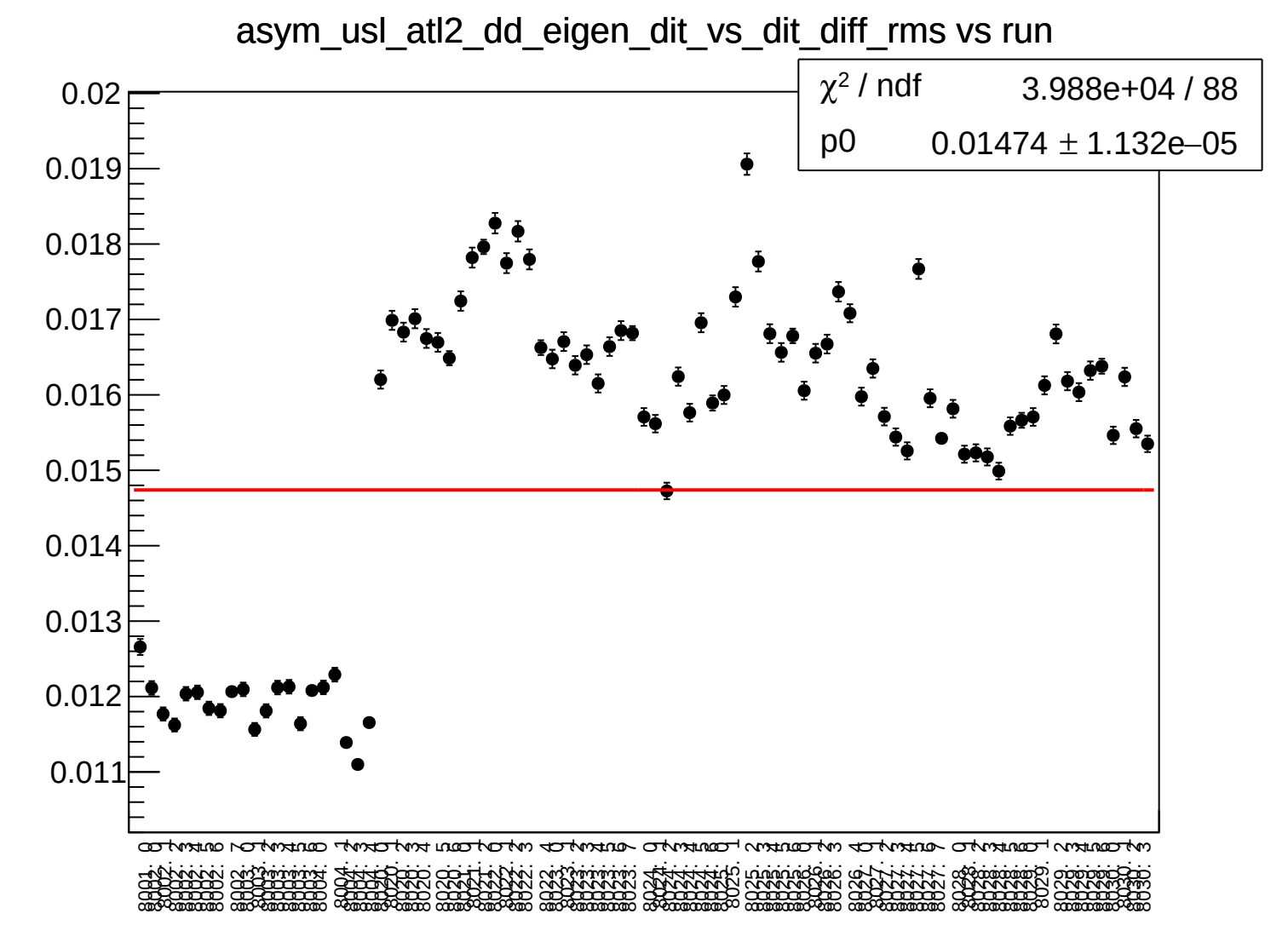

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 123.6 / 88
p0 −0.1536 ± 0.1702
pull
Entries 89
Mean 494.1
Std Dev 0

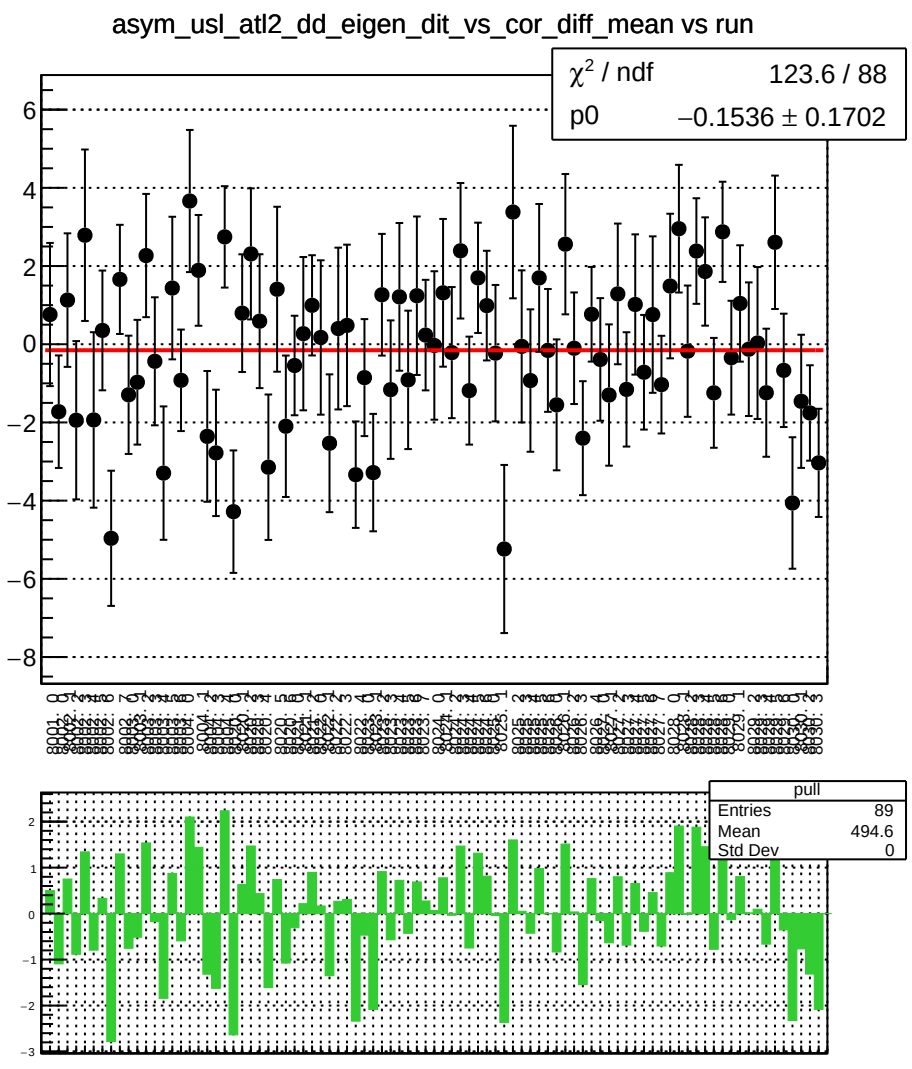

pull1D
Entries 89
Mean 0.002551
Std Dev 1.179

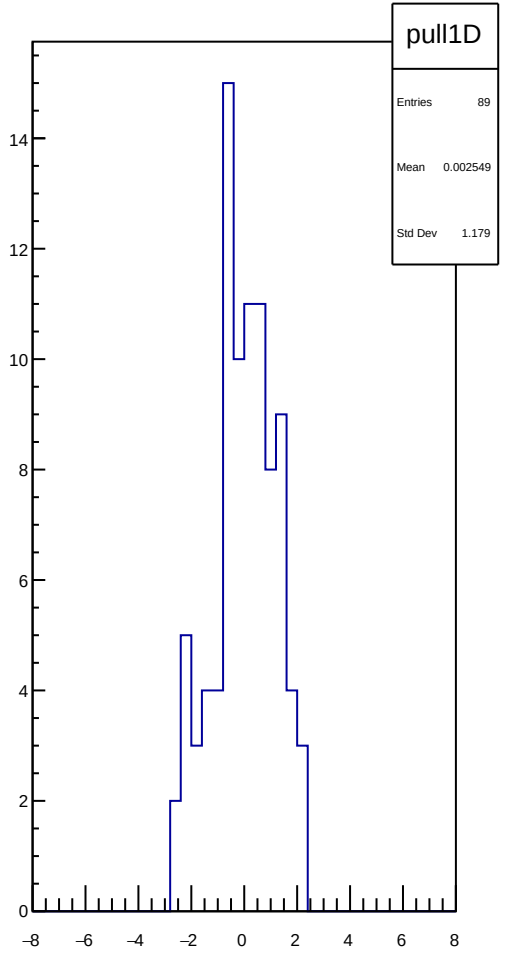

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.213e+04 / 88
p0 157.1 ± 0.1204
220
200
180
160
140
120

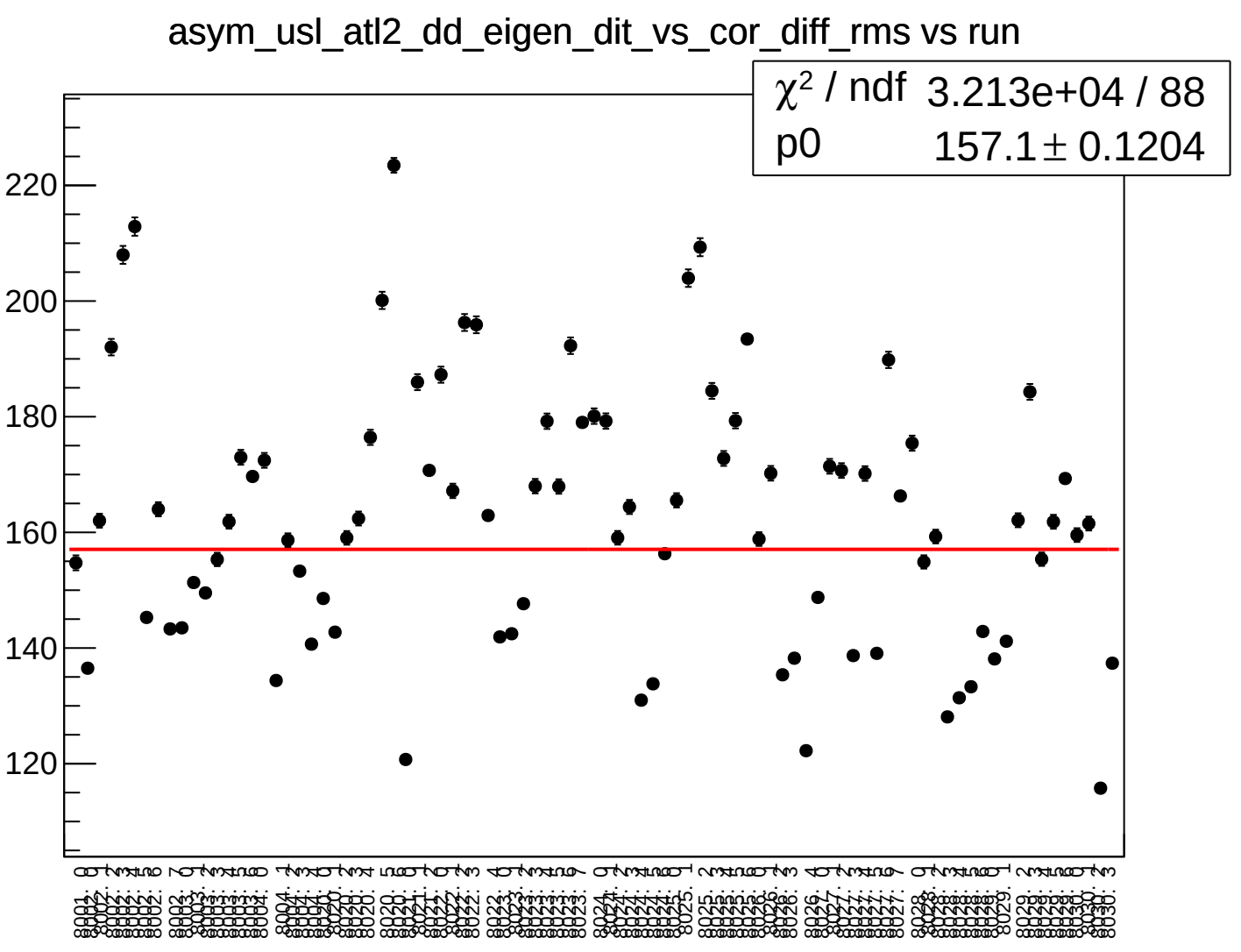

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.21 / 88
p0 −2.372e−06 ± 1.601e−05
pull
Entries 89
Mean 132.6
Std Dev 0

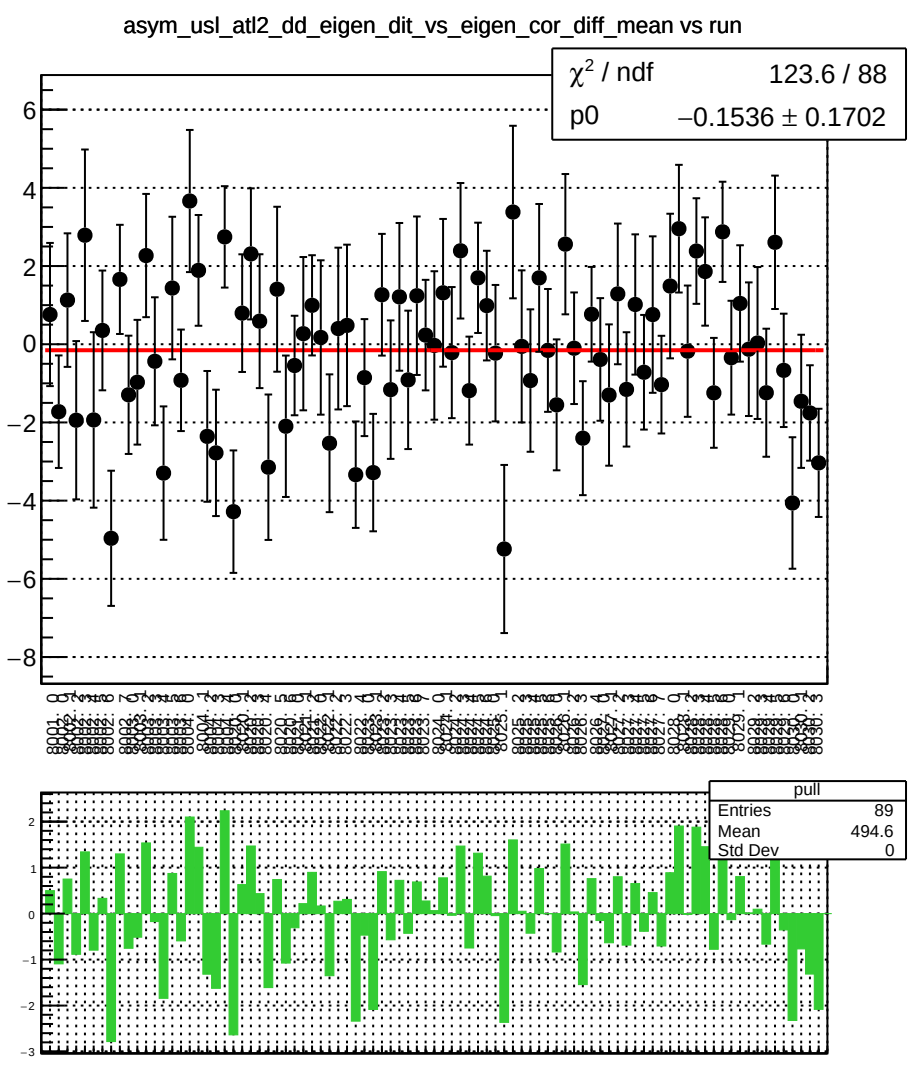

pull1D
Entries 89
Mean 0.03415
Std Dev 1.006

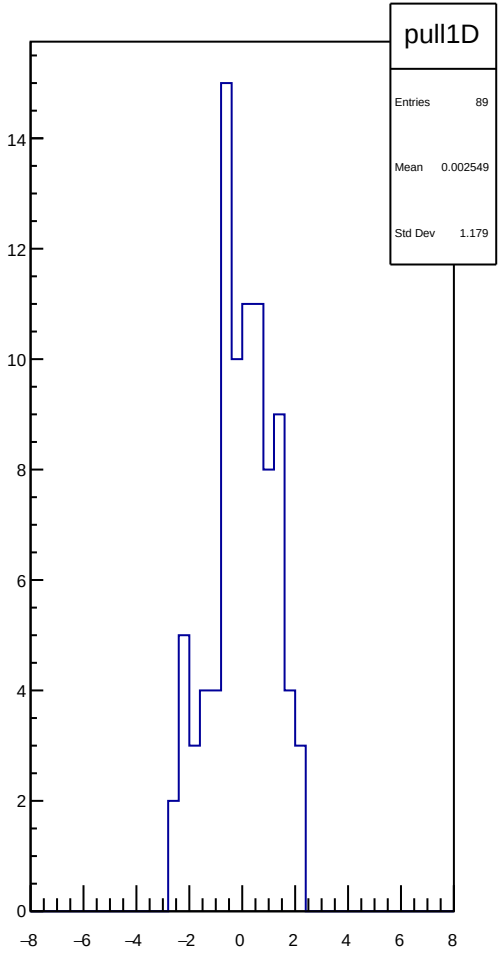

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.988e+04 / 88
p0 0.01474 ± 1.132e−05
0.02
0.019
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011

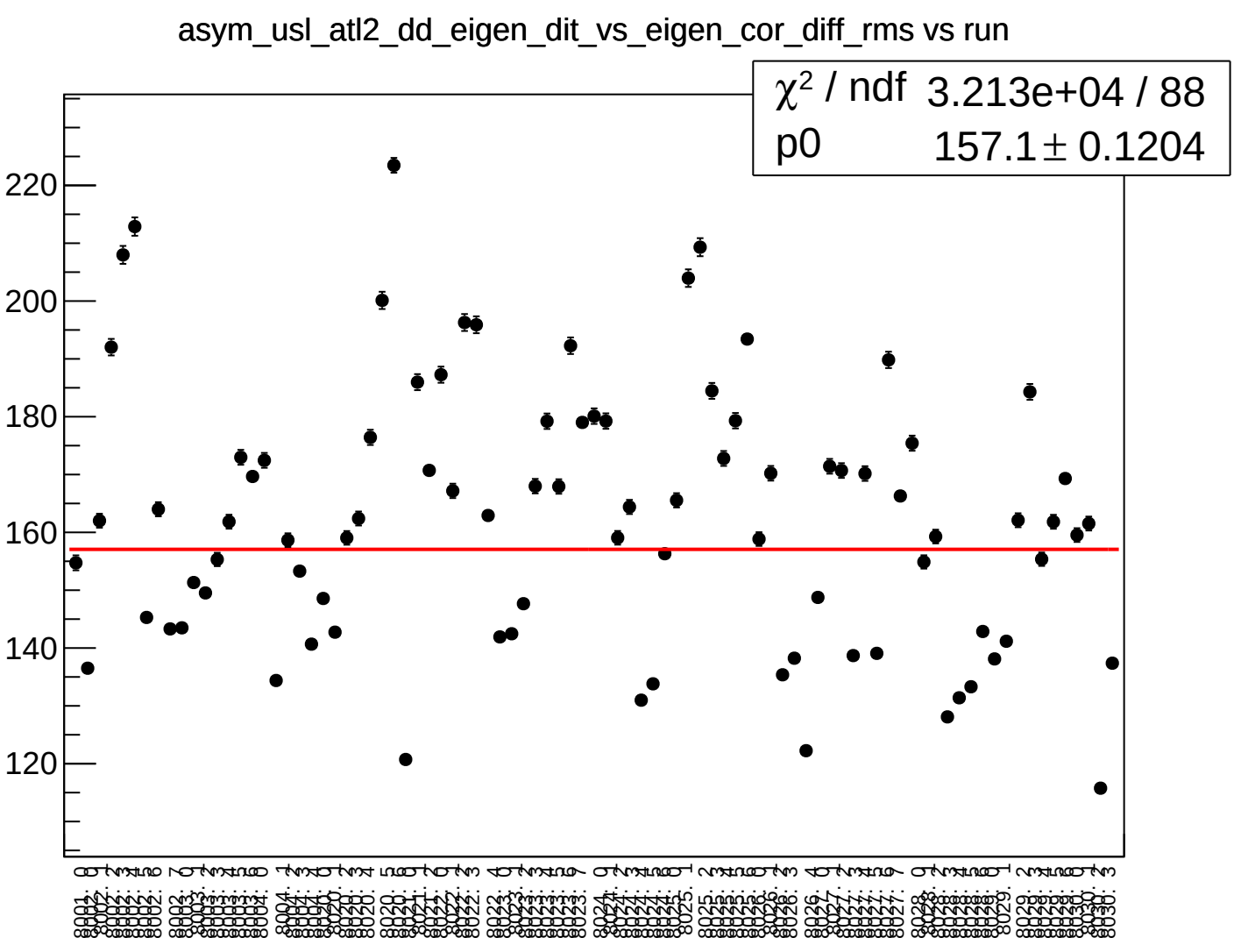

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 123.6 / 88
p0 −0.1536 ± 0.1702
pull
Entries 89
Mean 494.6
Std Dev 0

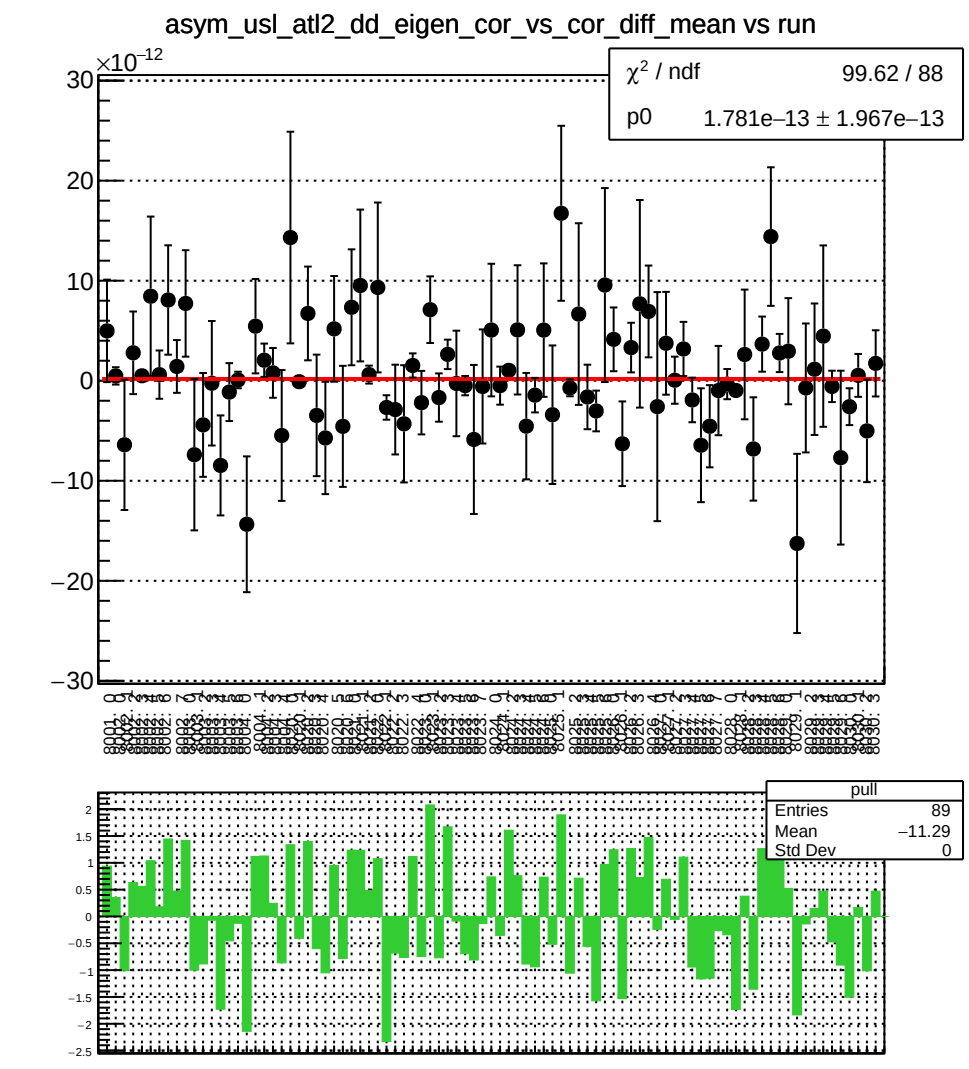

pull1D
Entries 89
Mean 0.002549
Std Dev 1.179

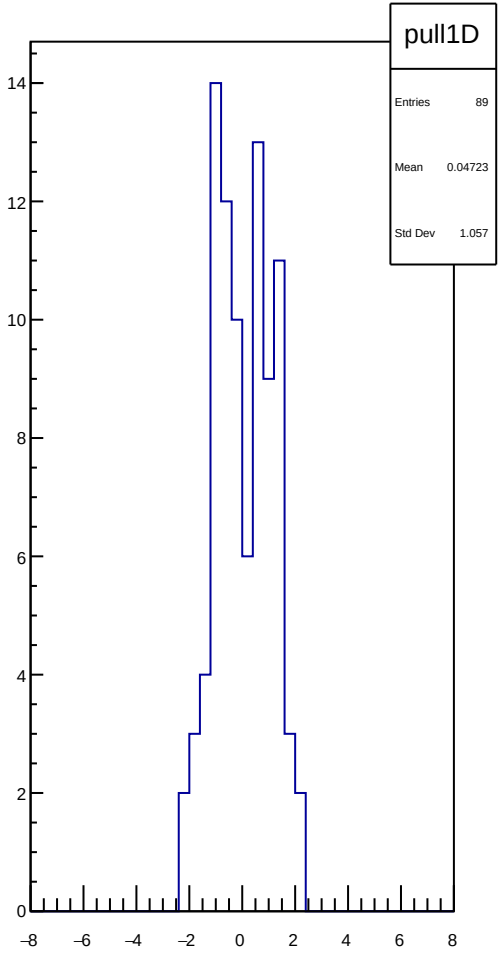

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.213e+04 / 88
p0 157.1 ± 0.1204
220
200
180
160
140
120

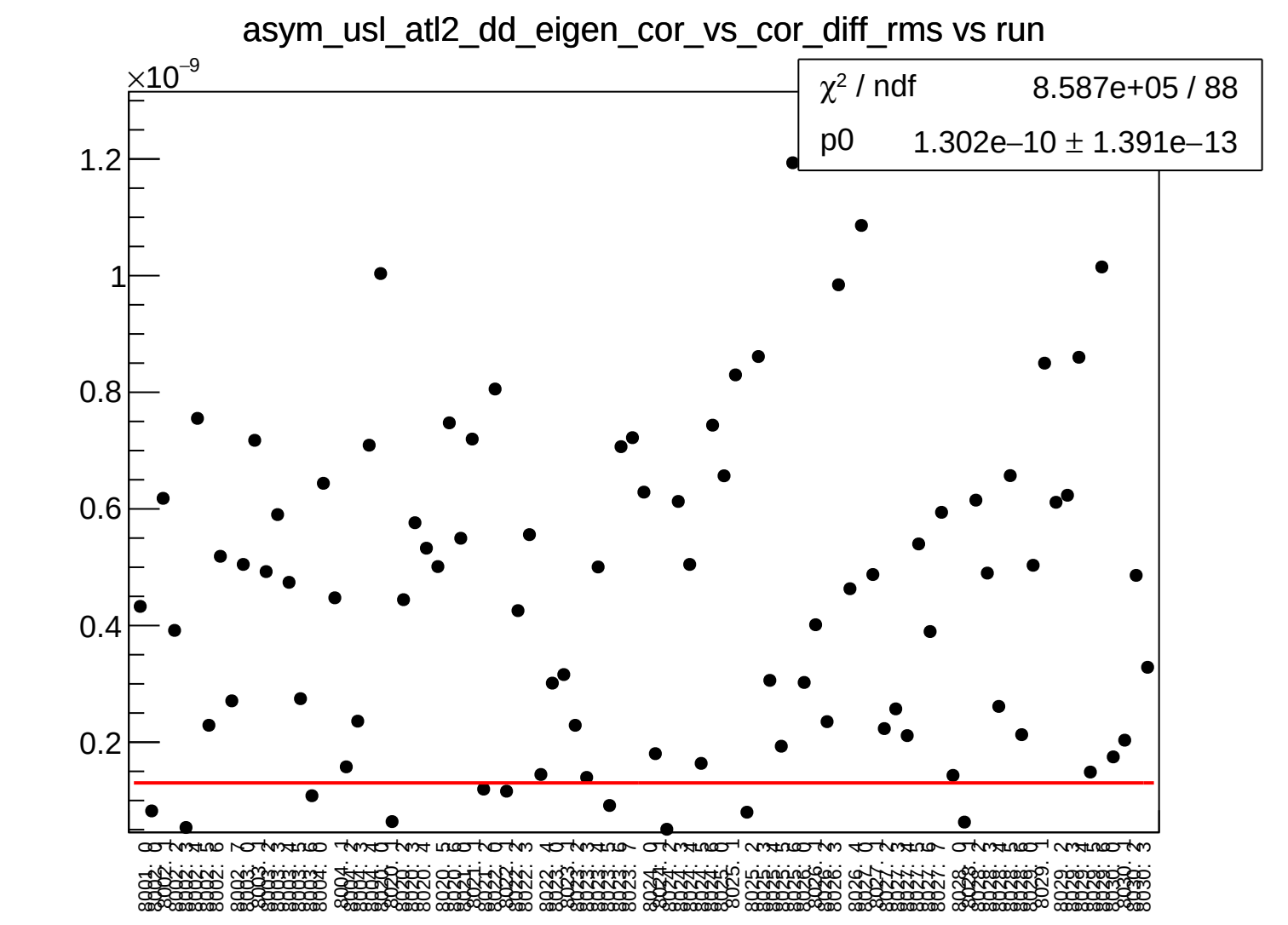

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 123.6 / 88
p0 −0.1536 ± 0.1702
pull
Entries 89
Mean 494.6
Std Dev 0

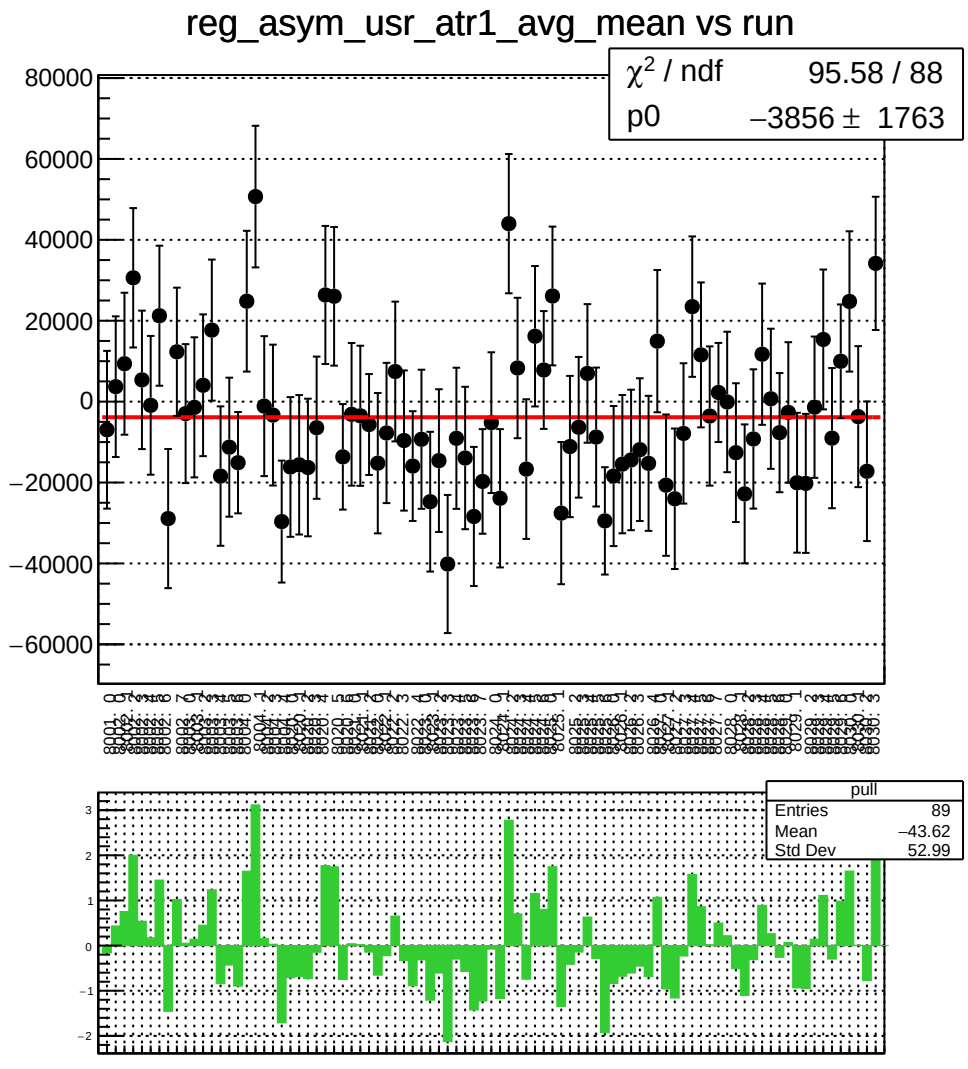

pull1D
Entries 89
Mean 0.002549
Std Dev 1.179

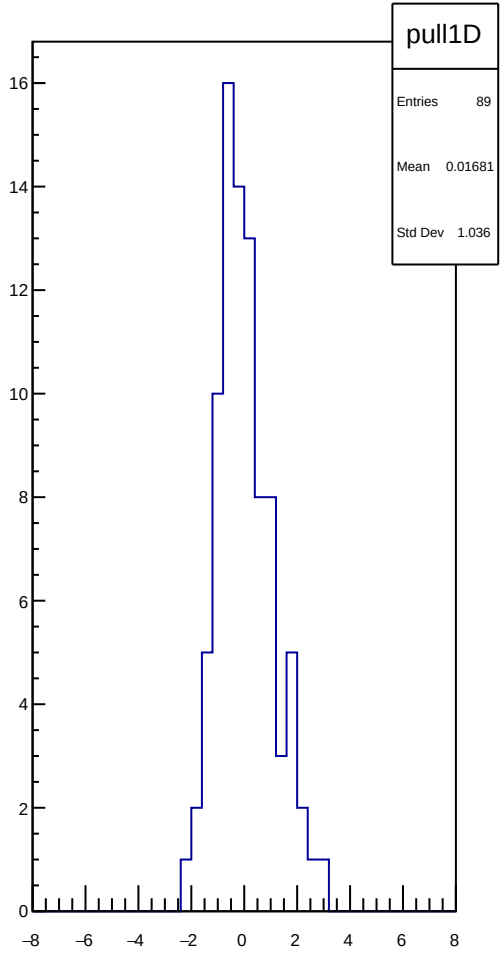

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.213e+04 / 88
p0 157.1 ± 0.1204
220
200
180
160
140
120

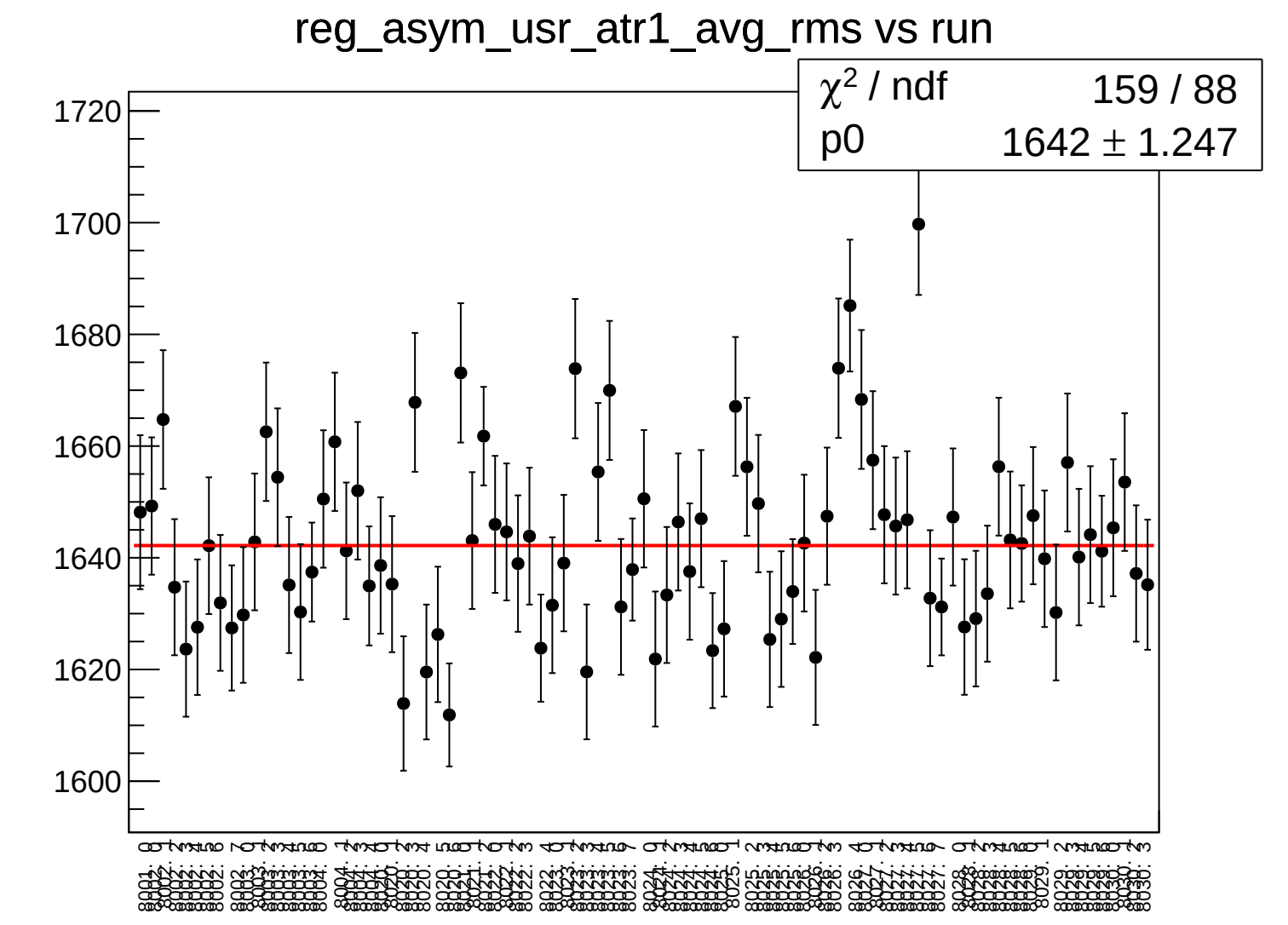

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.62 / 88
p0 1.781e−13 ± 1.967e−13
pull
Entries 89
Mean −11.29
Std Dev 0

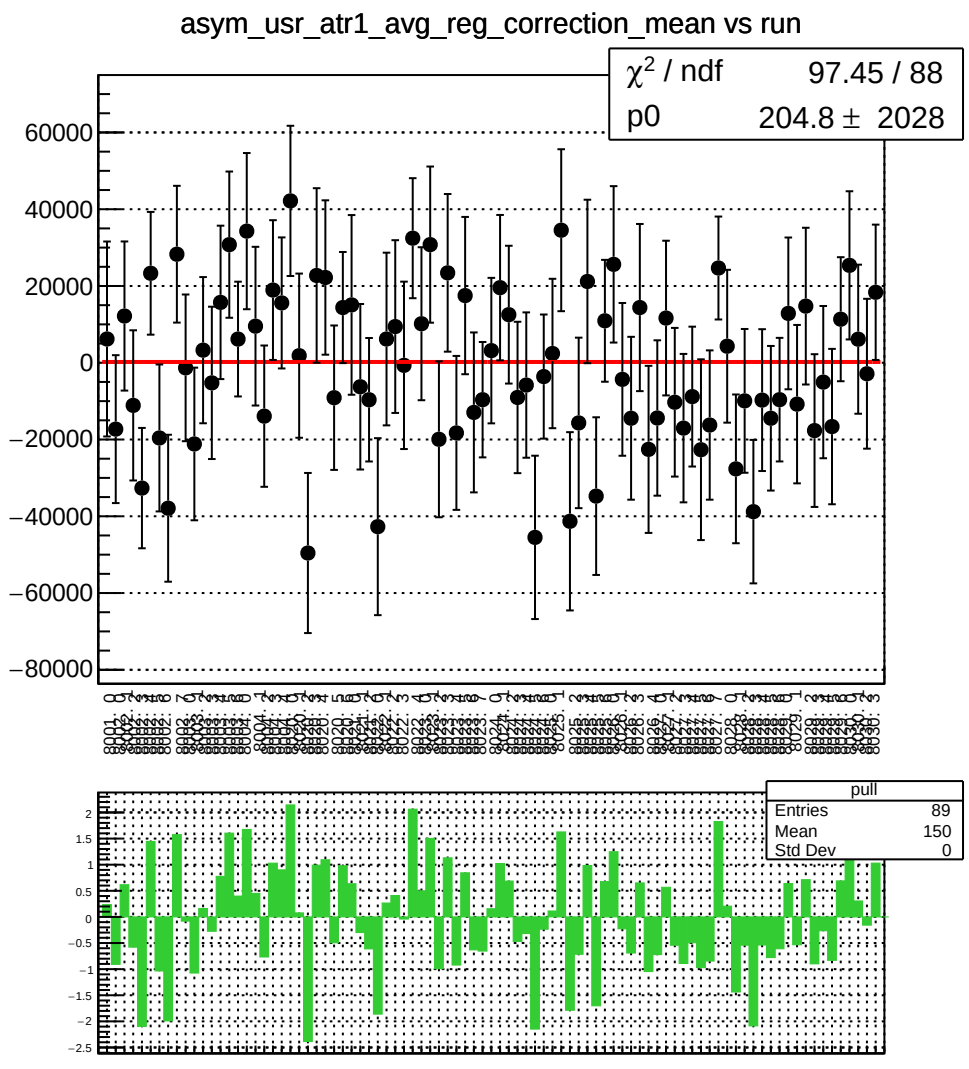

pull1D
Entries 89
Mean 0.04723
Std Dev 1.057

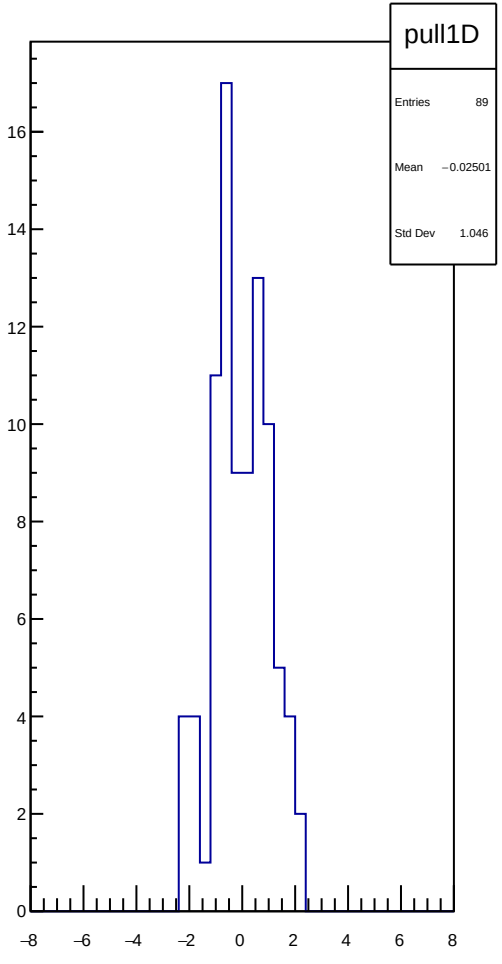

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.587e+05 / 88
p0 1.302e−10 ± 1.391e−13
1.2
1
0.8
0.6
0.4
0.2

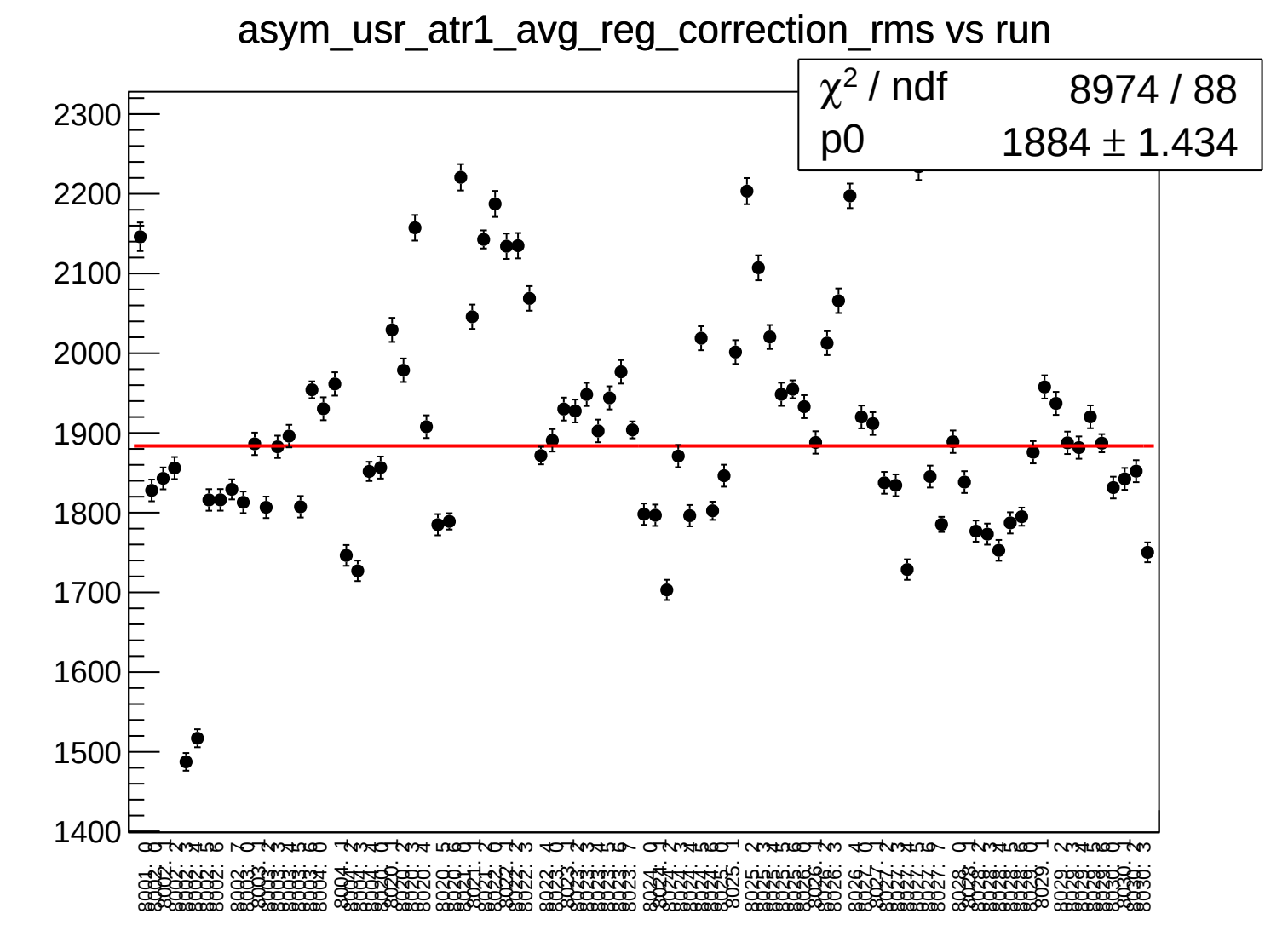

reg_asym_usr_atr1_avg_mean vs run
χ² / ndf 95.58 / 88
p0 −3856 ± 1763
pull
Entries 89
Mean −43.62
Std Dev 52.99

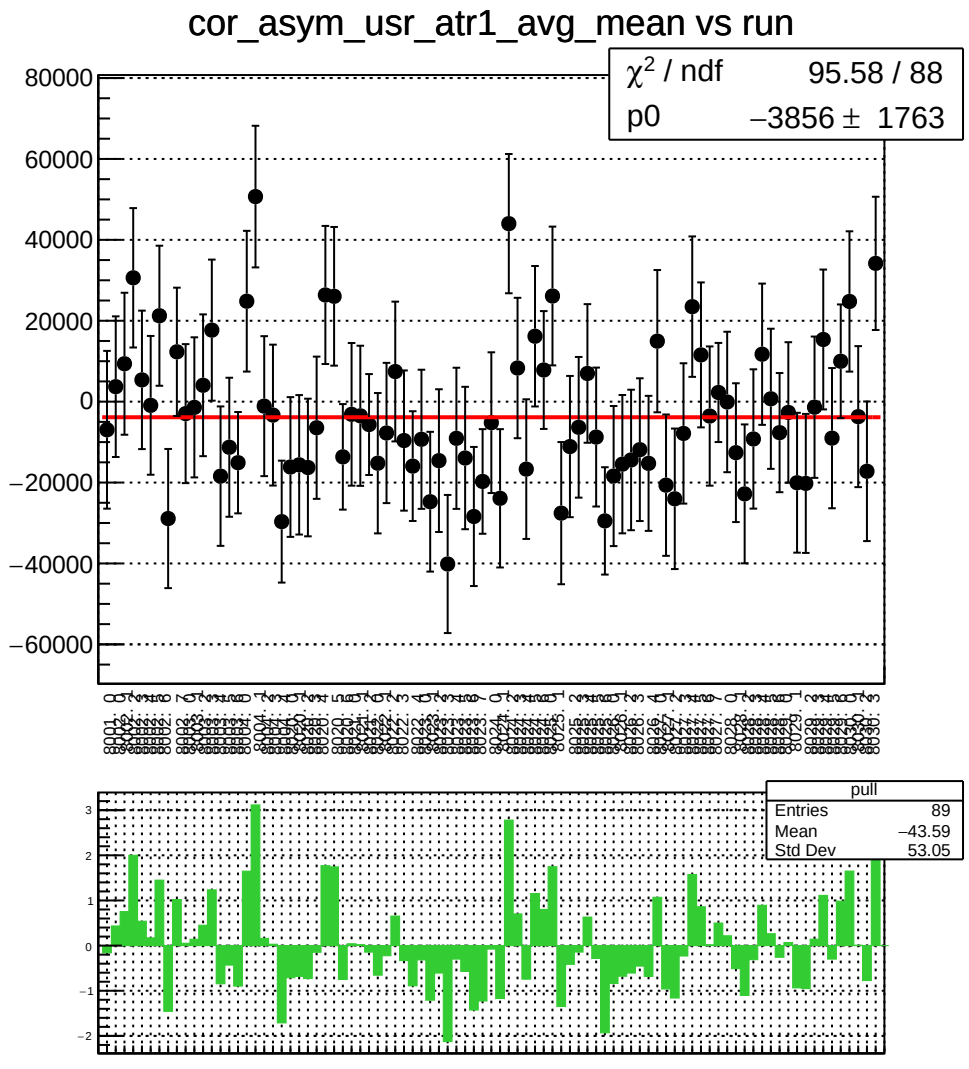

pull1D
Entries 89
Mean 0.01681
Std Dev 1.036

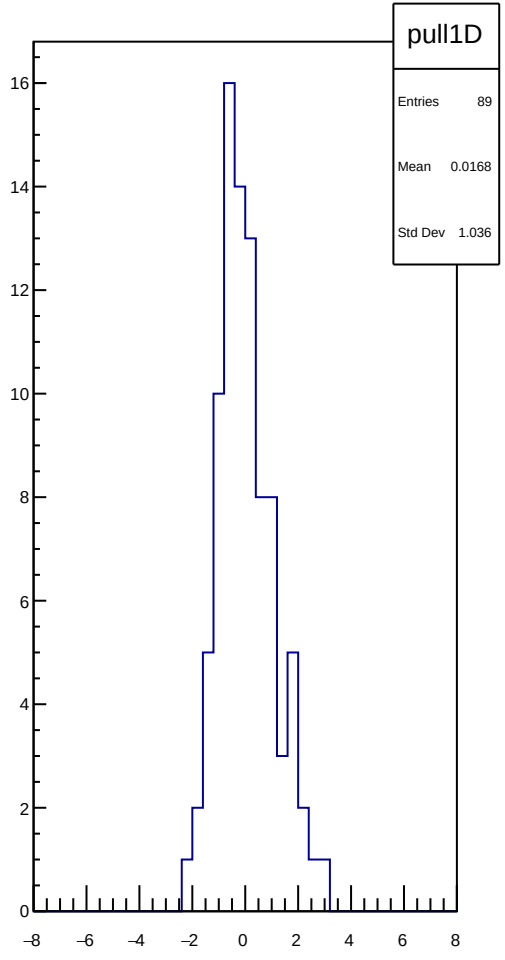

reg_asym_usr_atr1_avg_rms vs run
χ² / ndf 159 / 88
p0 1642 ± 1.247
1720
1700
1680
1660
1640
1620
1600

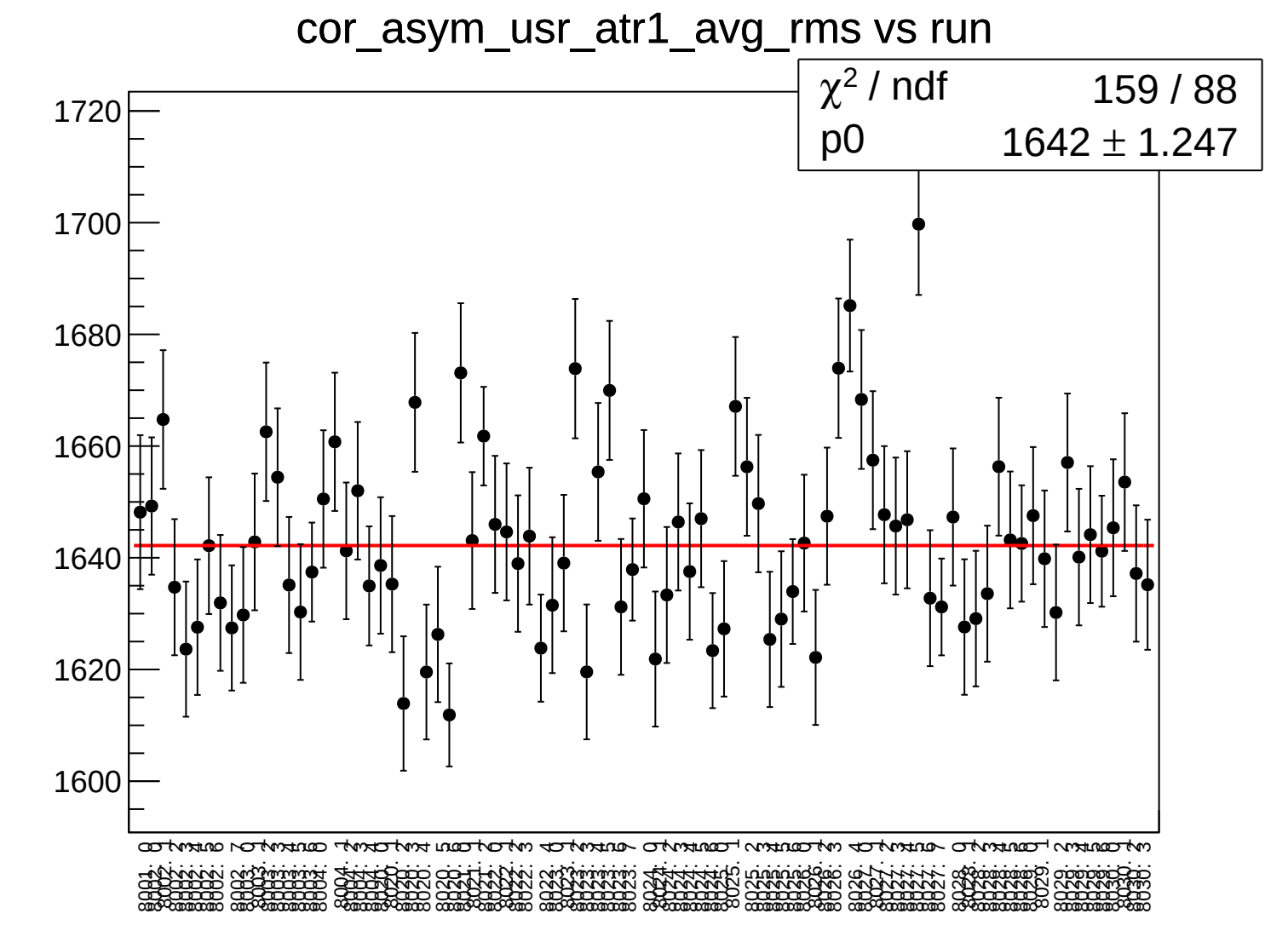

asym_usr_atr1_avg_reg_correction_mean vs run
χ² / ndf 97.45 / 88
p0 204.8 ± 2028
pull
Entries 89
Mean 150
Std Dev 0

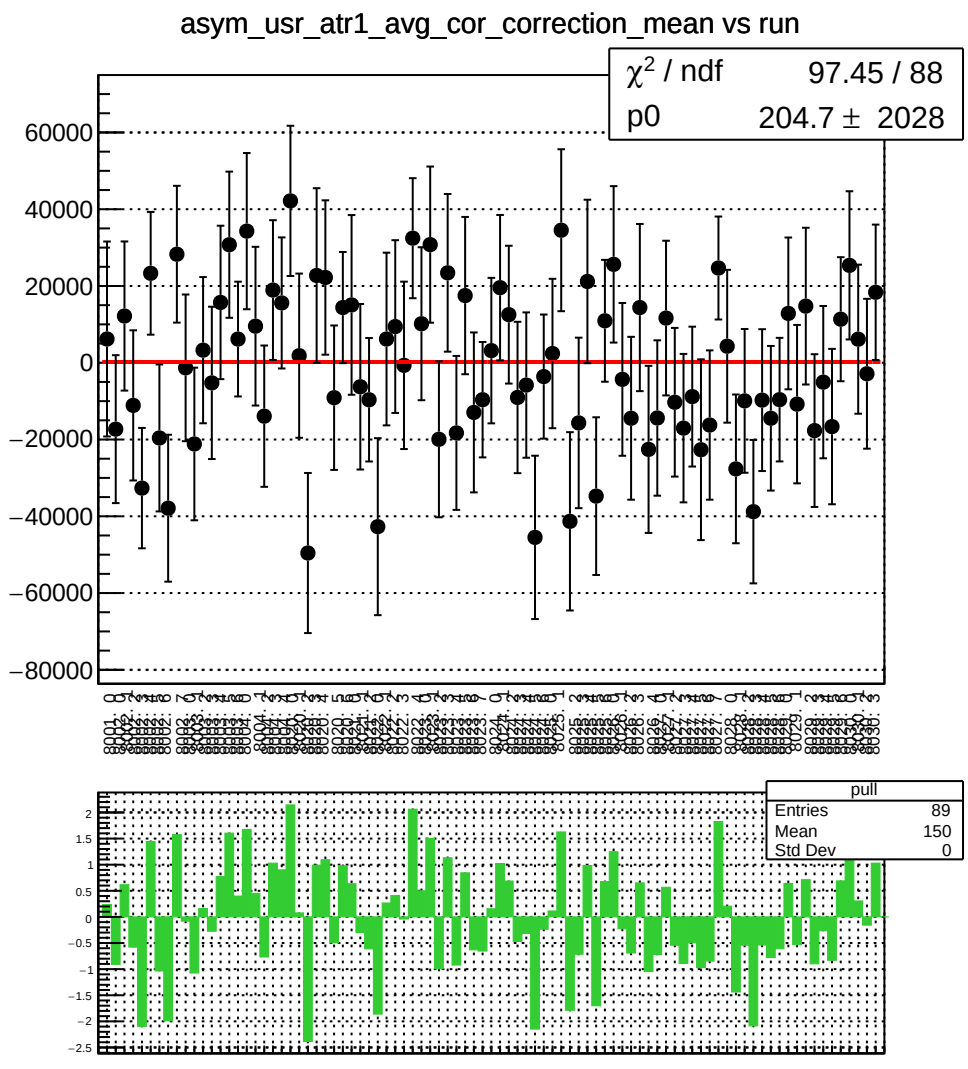

pull1D
Entries 89
Mean −0.02501
Std Dev 1.046

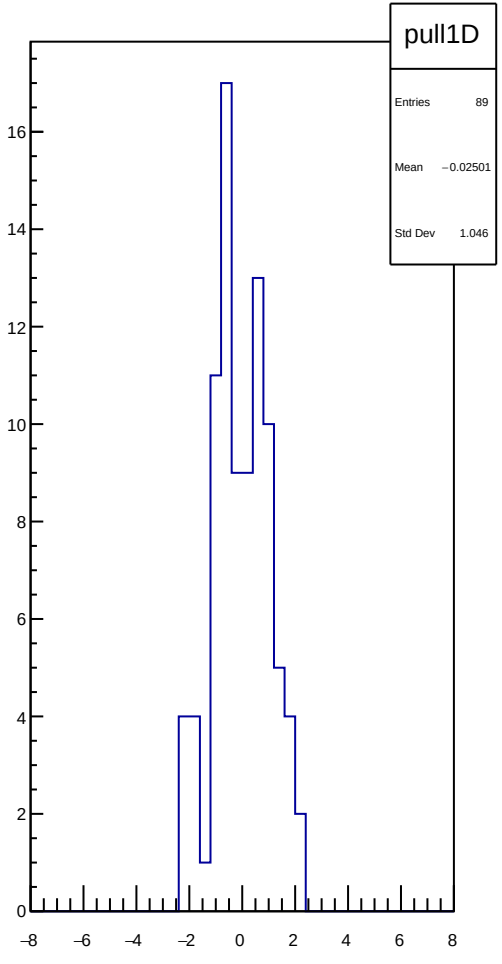

asym_usr_atr1_avg_reg_correction_rms vs run
χ² / ndf 8974 / 88
p0 1884 ± 1.434
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400

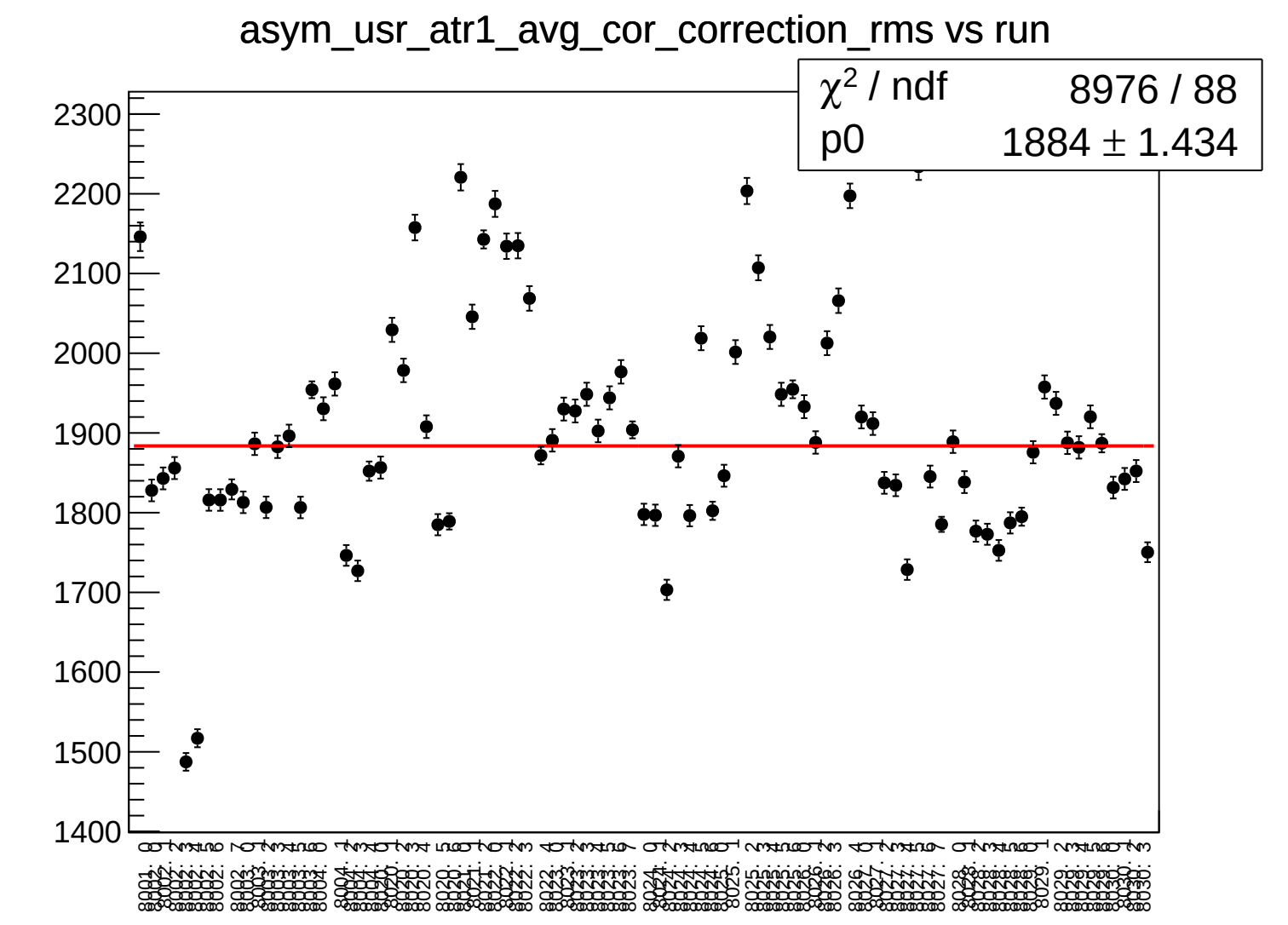

cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 95.58 / 88
p0 −3856 ± 1763
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −43.59
Std Dev 53.05
3
2
1
0
−1
−2

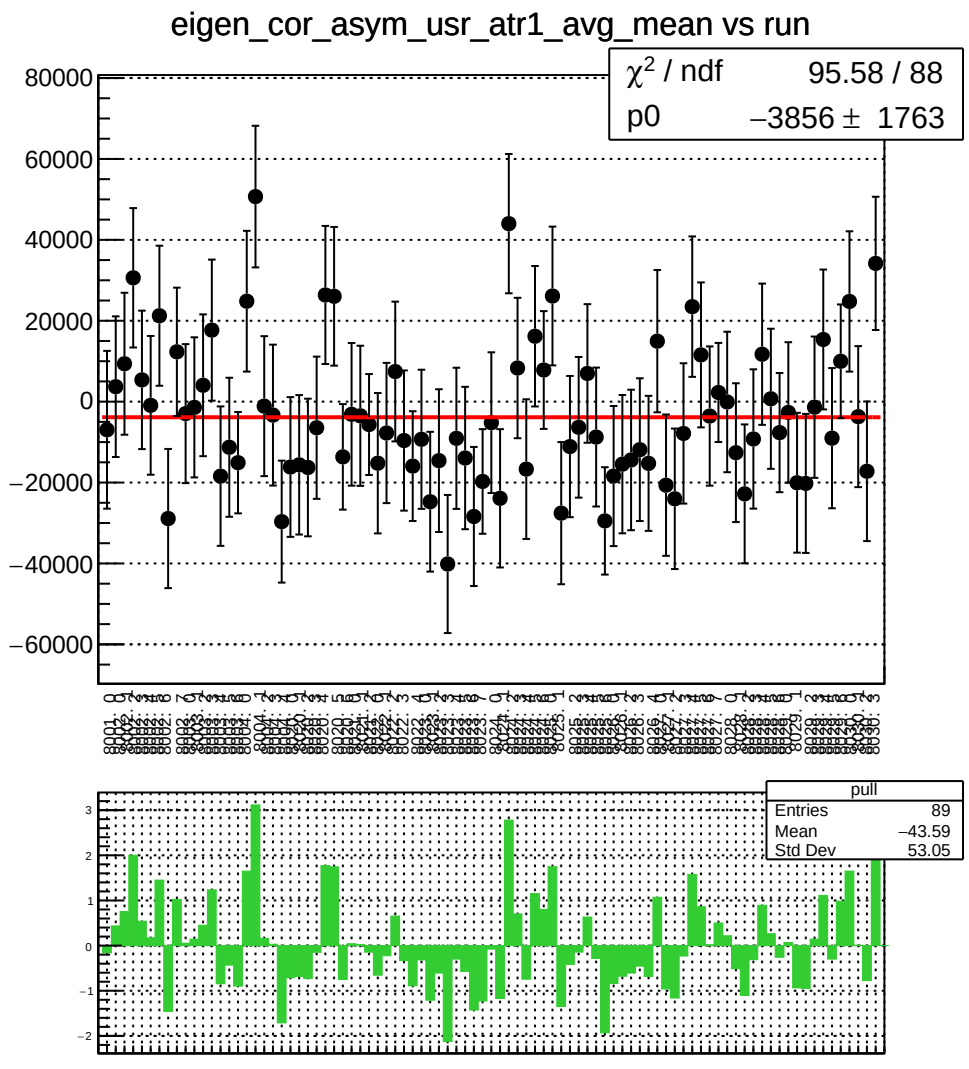

pull1D
Entries 89
Mean 0.0168
Std Dev 1.036
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

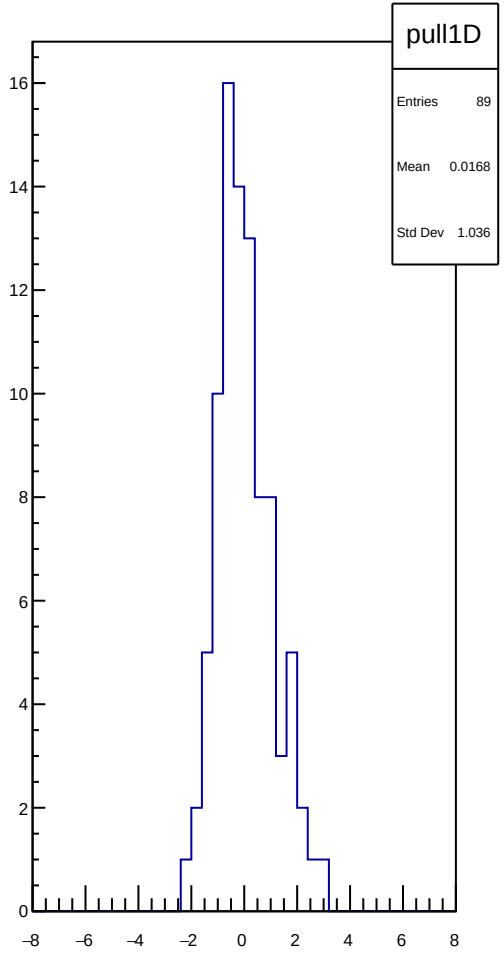

cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 159 / 88
p0 1642 ± 1.247
1720
1700
1680
1660
1640
1620
1600

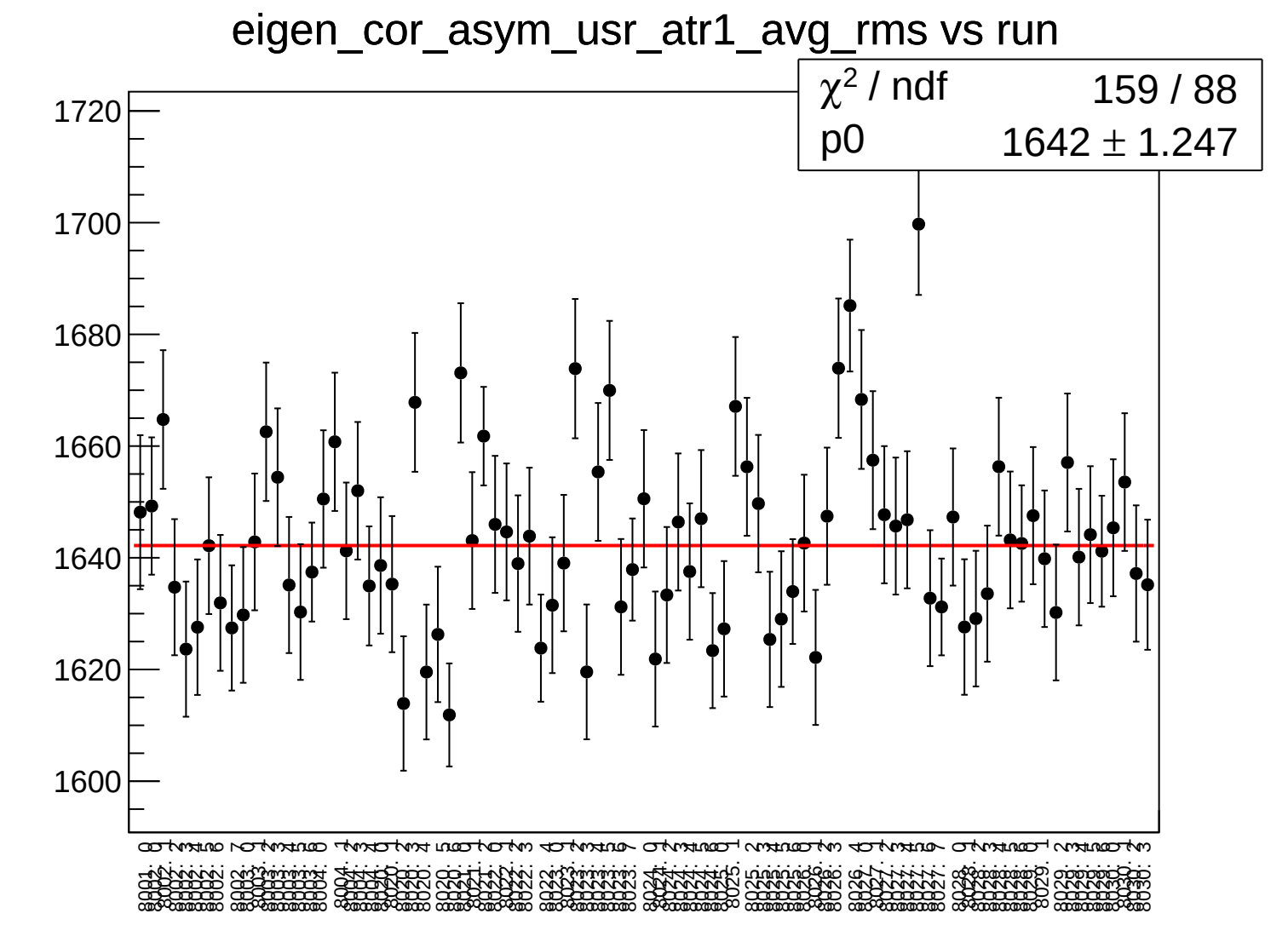

asym_usr_atr1_avg_cor_correction_mean vs run
χ² / ndf 97.45 / 88
p0 204.7 ± 2028
pull
Entries 89
Mean 150
Std Dev 0

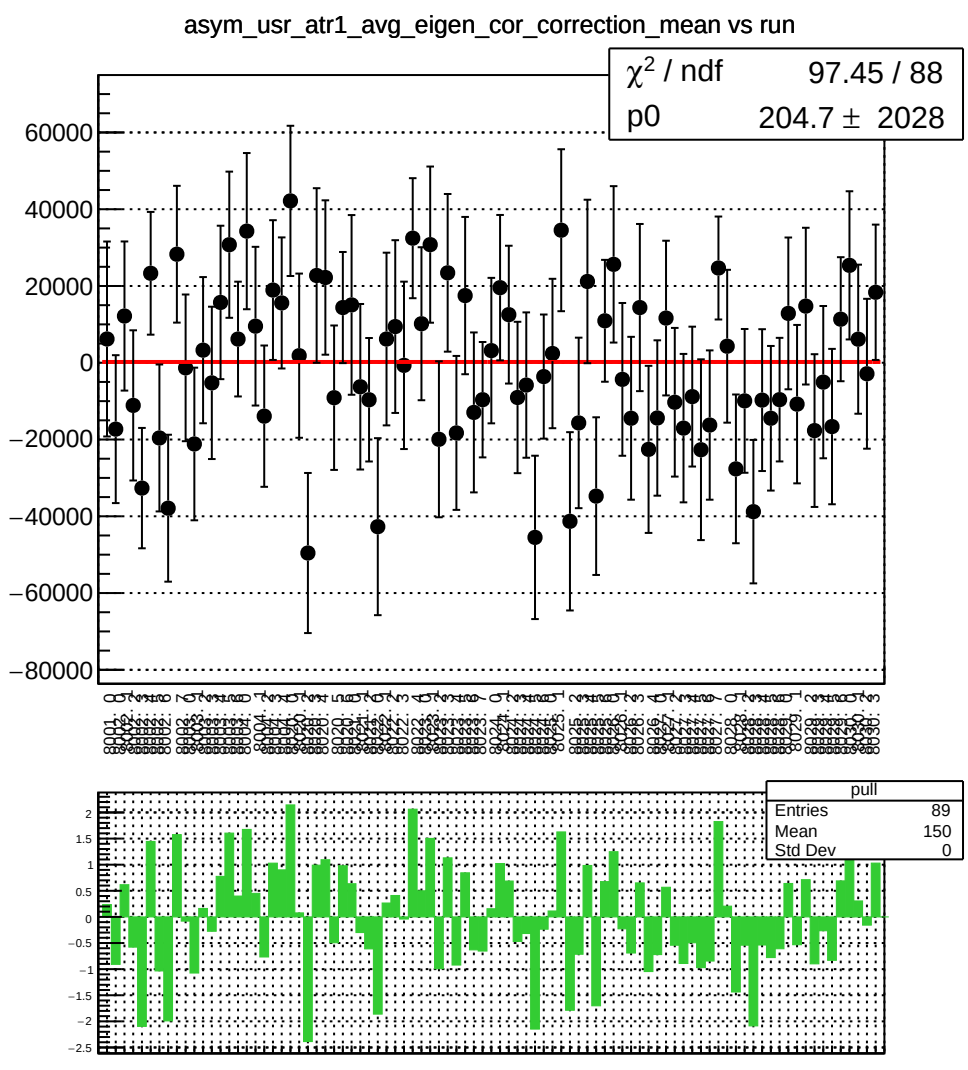

pull1D
Entries 89
Mean −0.02501
Std Dev 1.046

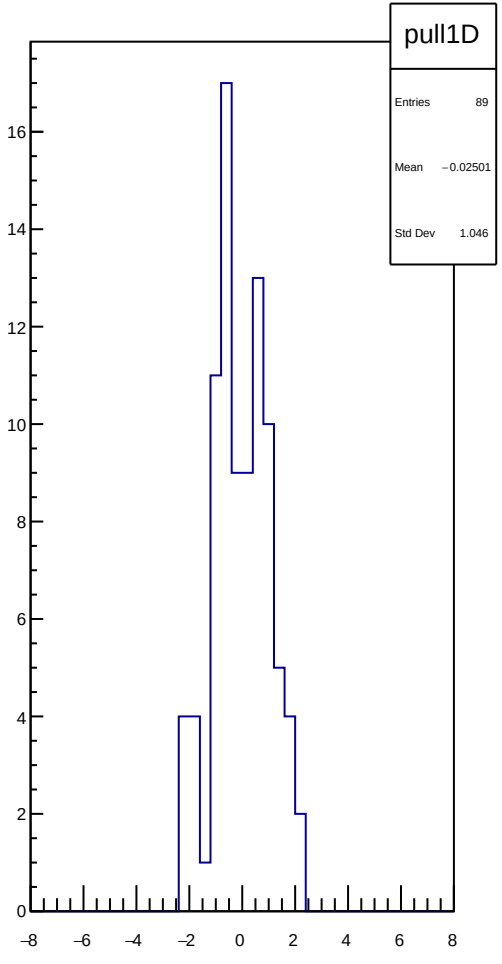

asym_usr_atr1_avg_cor_correction_rms vs run
χ² / ndf 8976 / 88
p0 1884 ± 1.434
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400

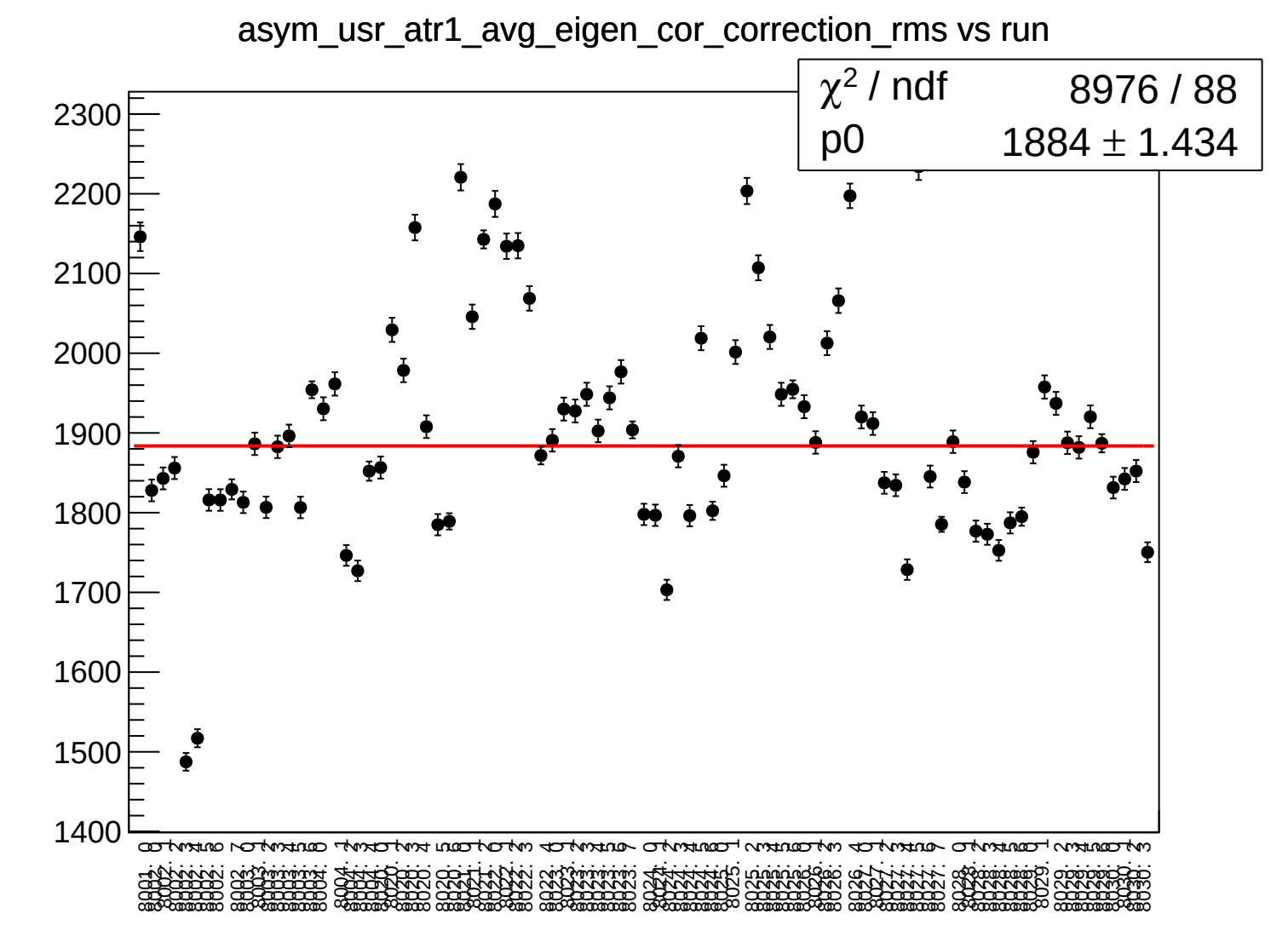

eigen_cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 95.58 / 88
p0 −3856 ± 1763
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −43.59
Std Dev 53.05
3
2
1
0
−1
−2

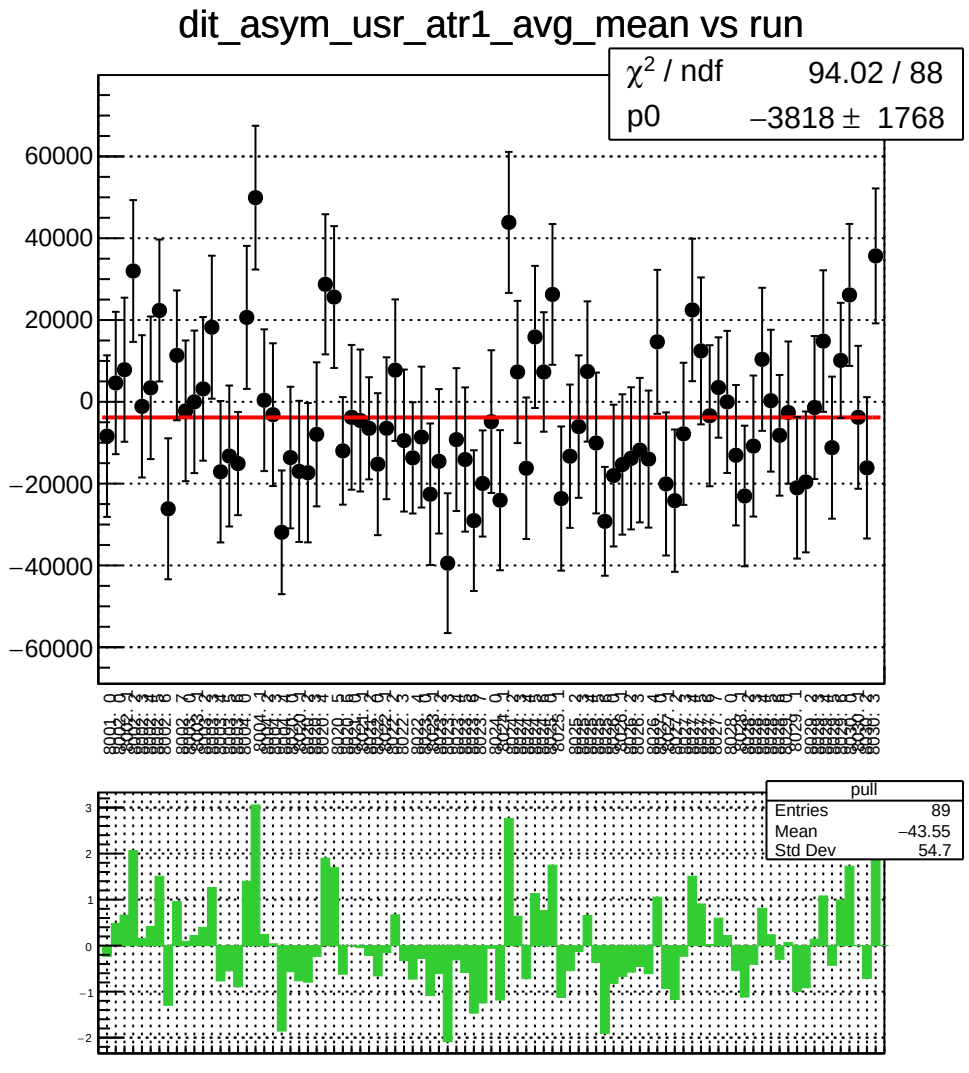

pull1D
Entries 89
Mean 0.0168
Std Dev 1.036
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

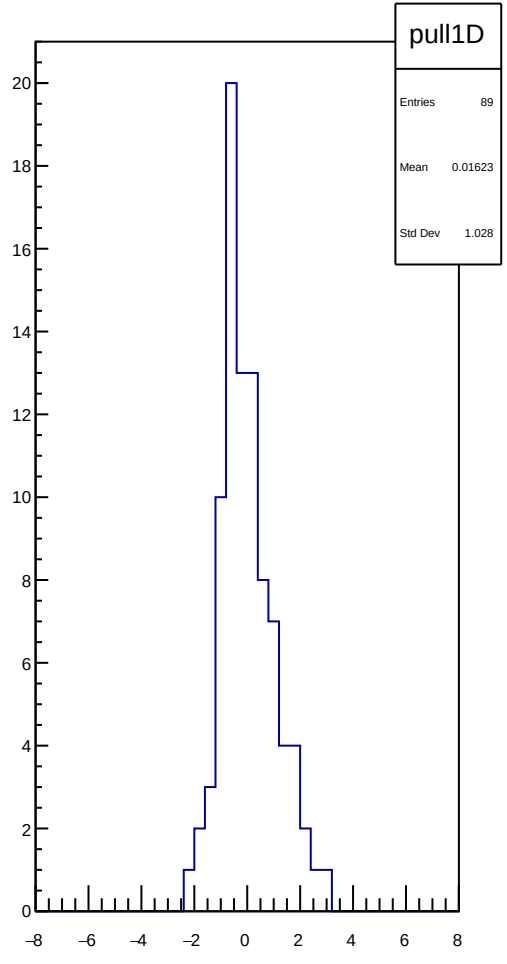

eigen_cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 159 / 88
p0 1642 ± 1.247
1720
1700
1680
1660
1640
1620
1600

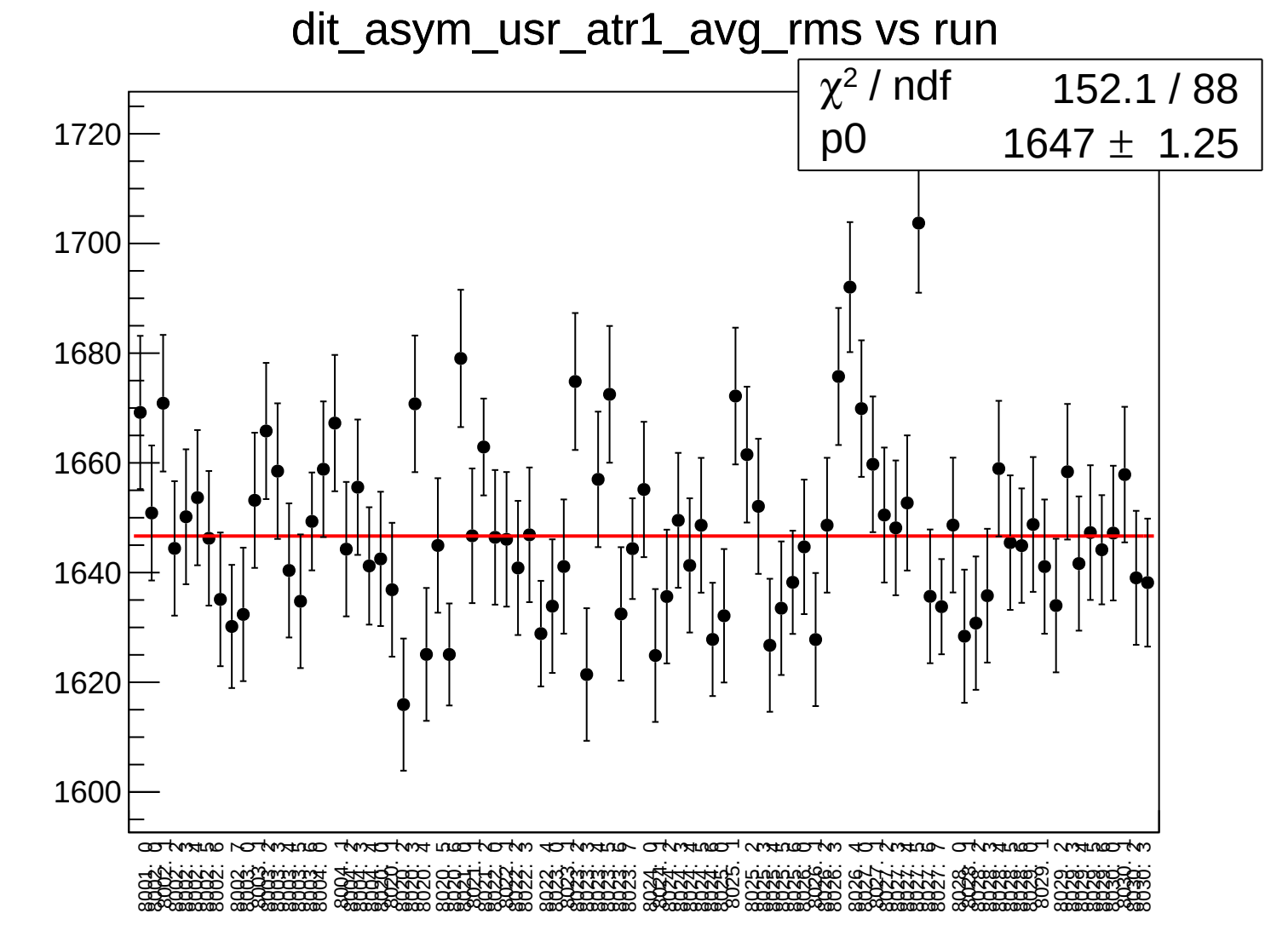

asym_usr_atr1_avg_eigen_cor_correction_mean vs run
χ² / ndf 97.45 / 88
p0 204.7 ± 2028
pull
Entries 89
Mean 150
Std Dev 0

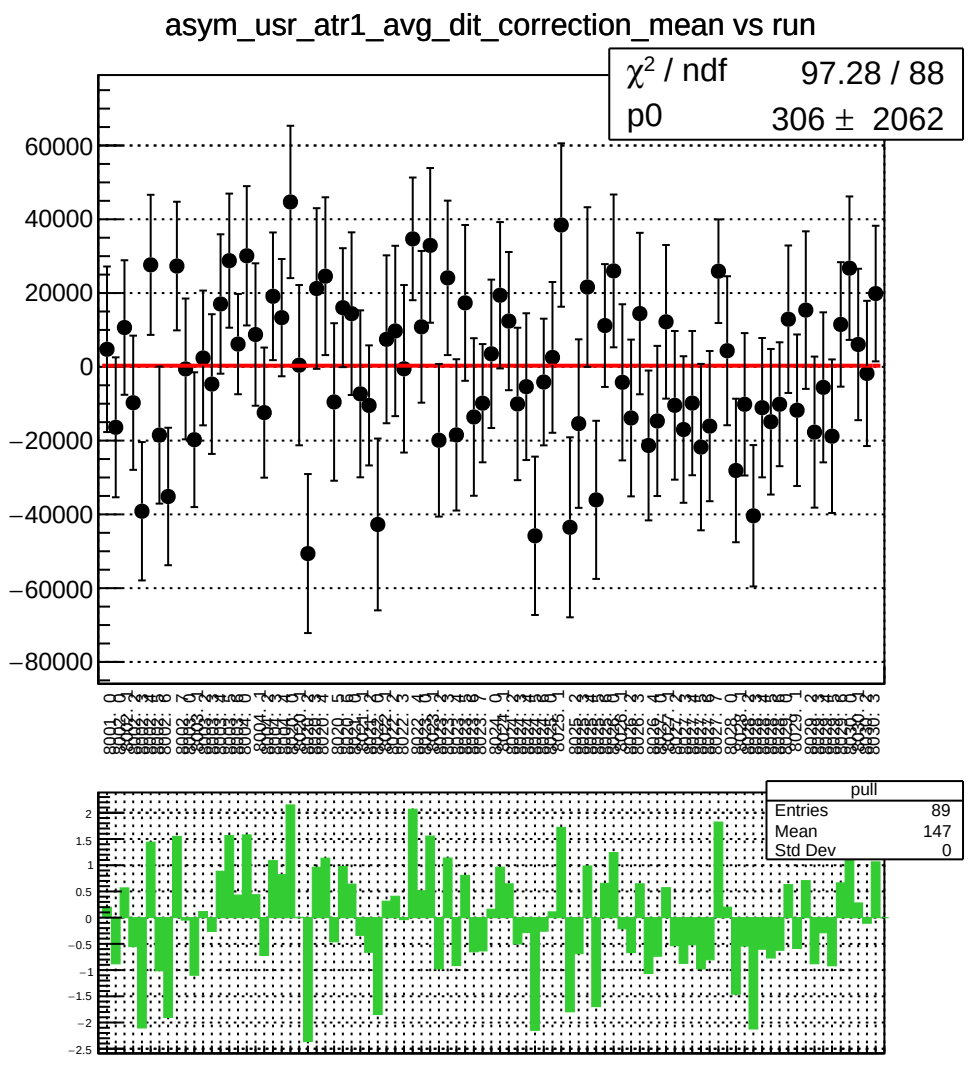

pull1D
Entries 89
Mean −0.02501
Std Dev 1.046

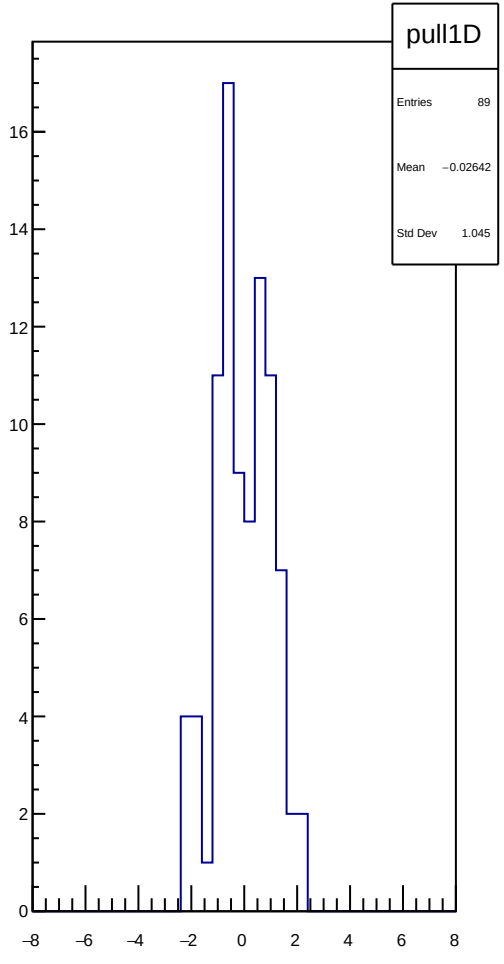

asym_usr_atr1_avg_eigen_cor_correction_rms vs run
χ² / ndf 8976 / 88
p0 1884 ± 1.434
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400

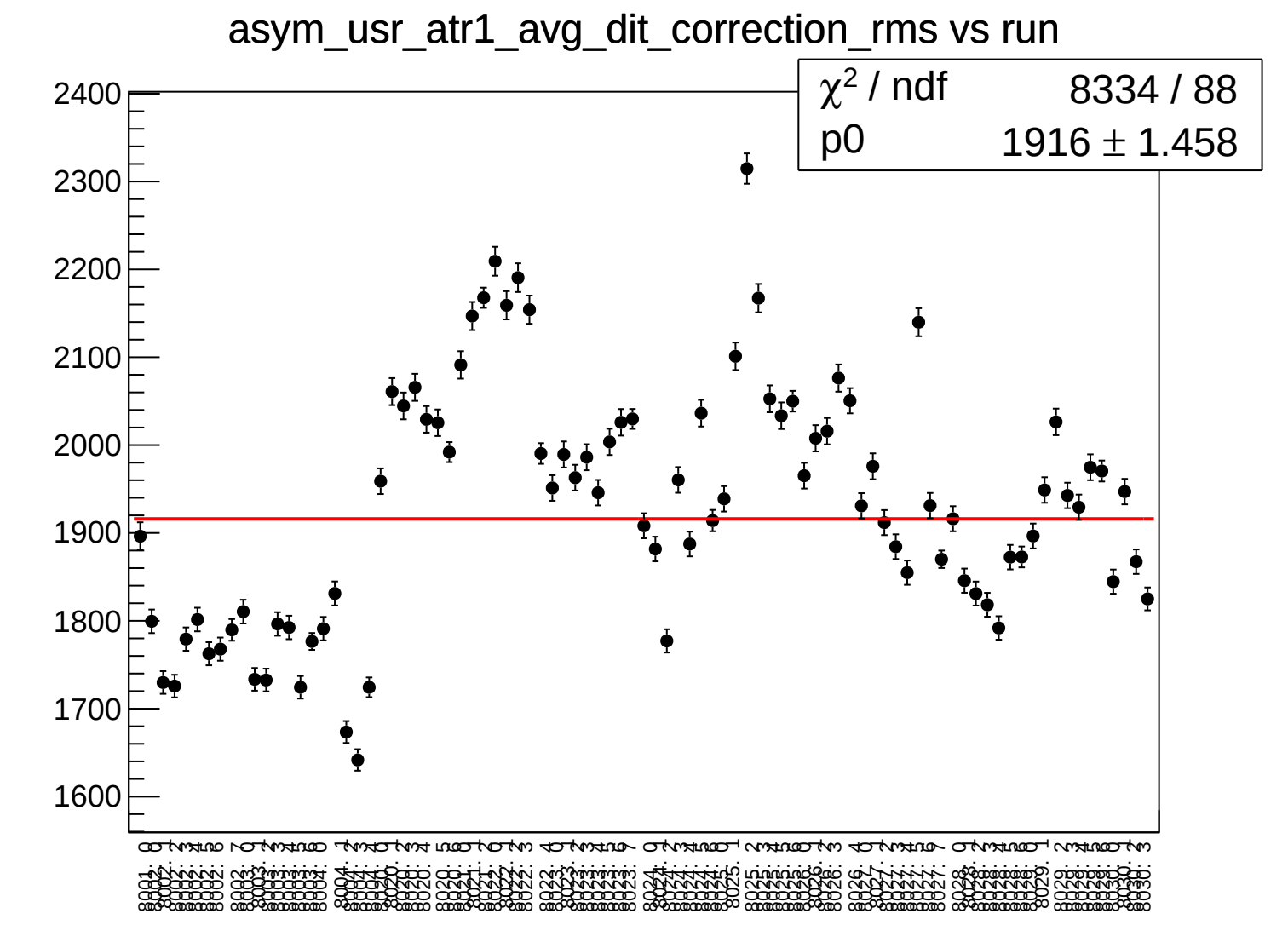

dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 94.02 / 88
p0 −3818 ± 1768
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −43.55
Std Dev 54.7
3
2
1
0
−1
−2

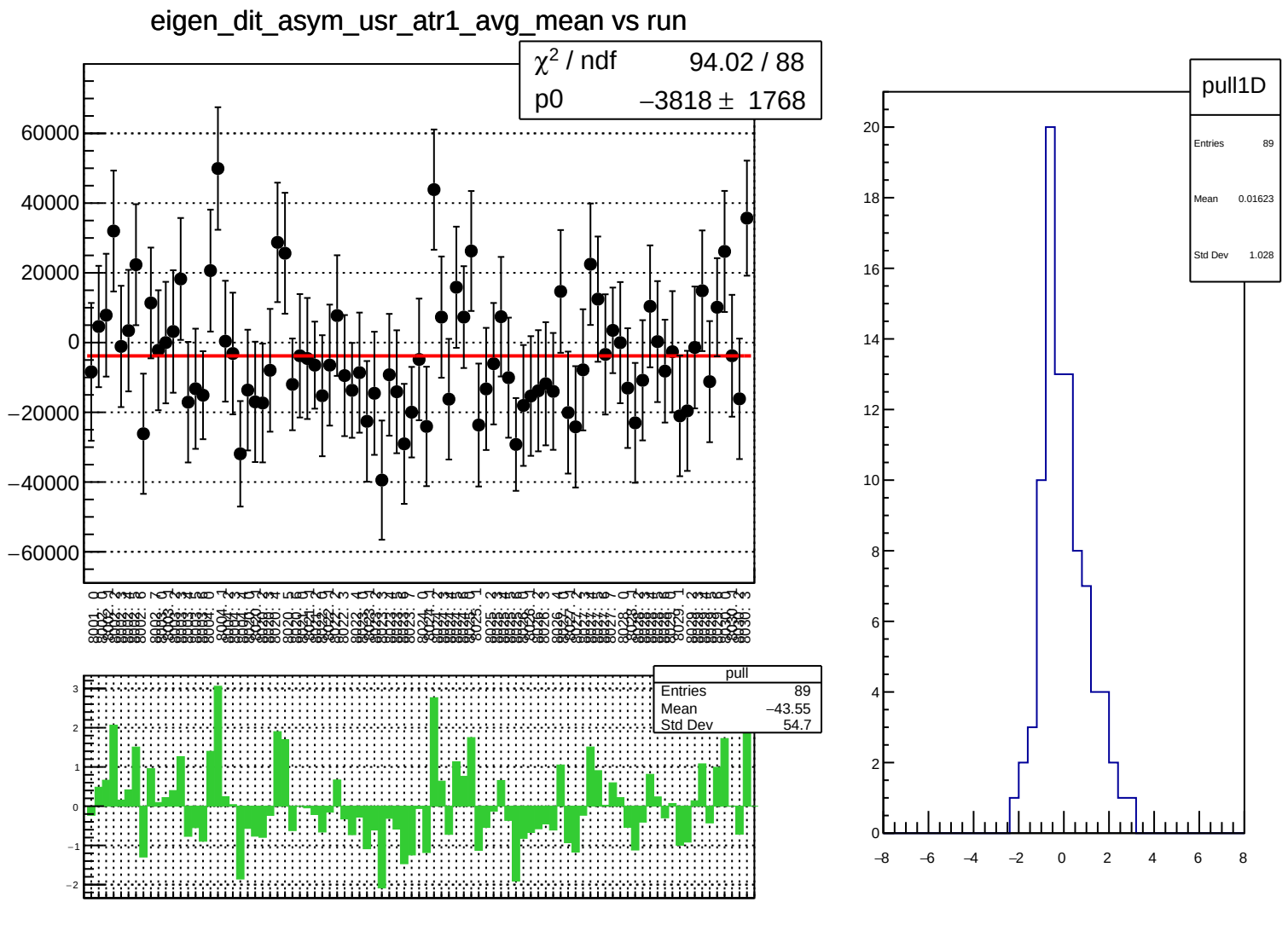

pull1D
Entries 89
Mean 0.01623
Std Dev 1.028
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

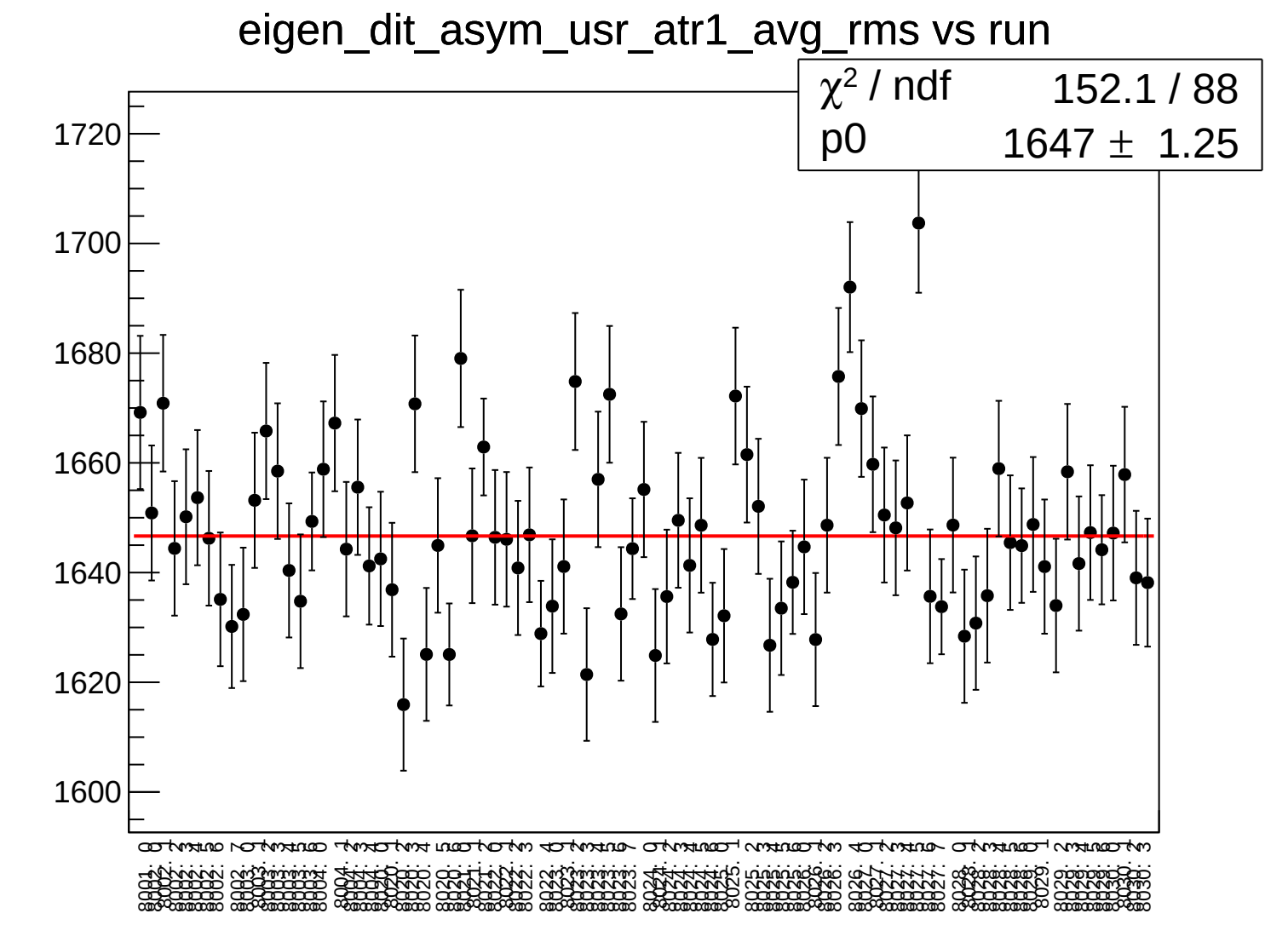

dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 152.1 / 88
p0 1647 ± 1.25
1720
1700
1680
1660
1640
1620
1600

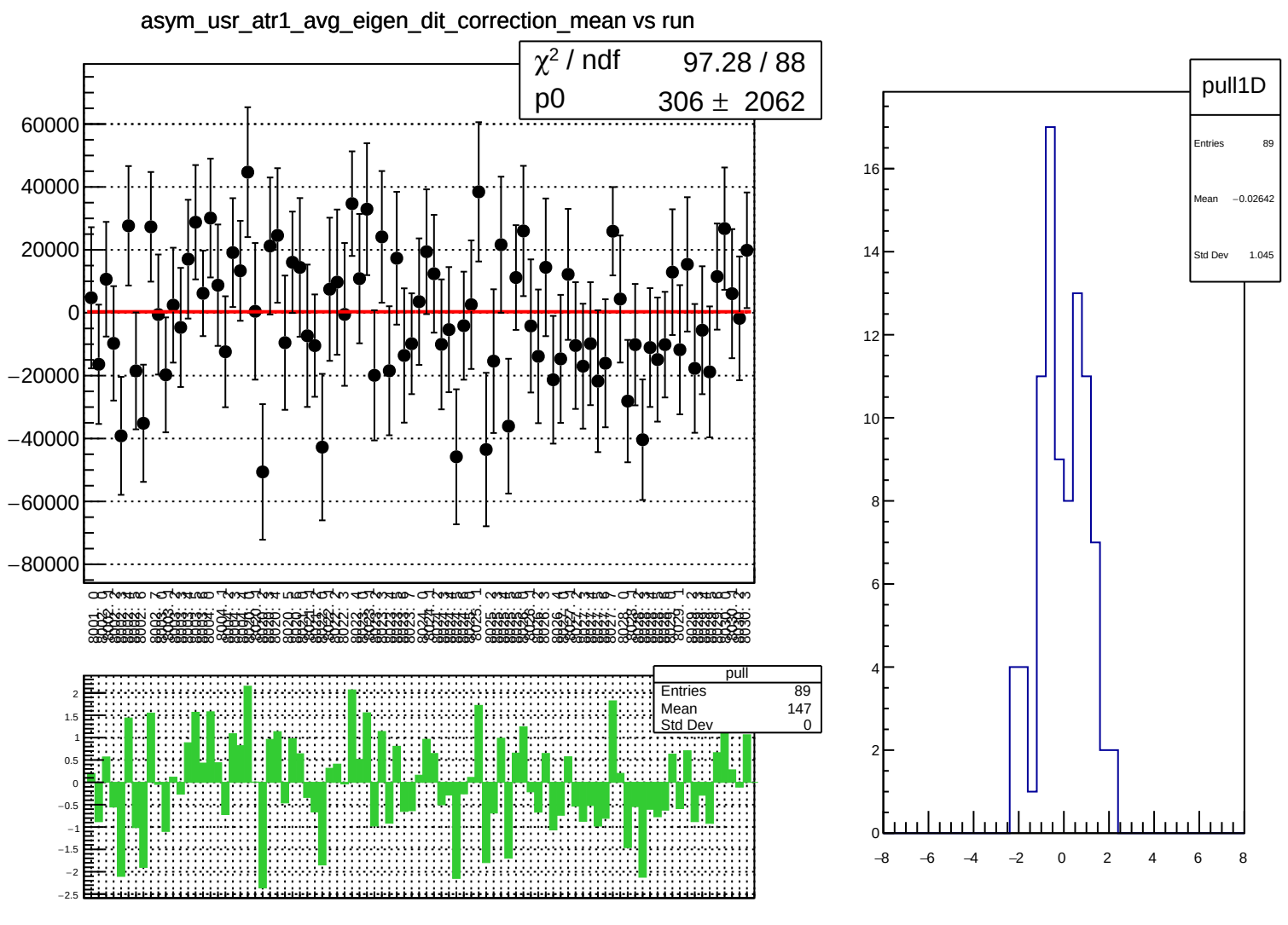

asym_usr_atr1_avg_dit_correction_mean vs run
χ² / ndf 97.28 / 88
p0 306 ± 2062
pull
Entries 89
Mean 147
Std Dev 0

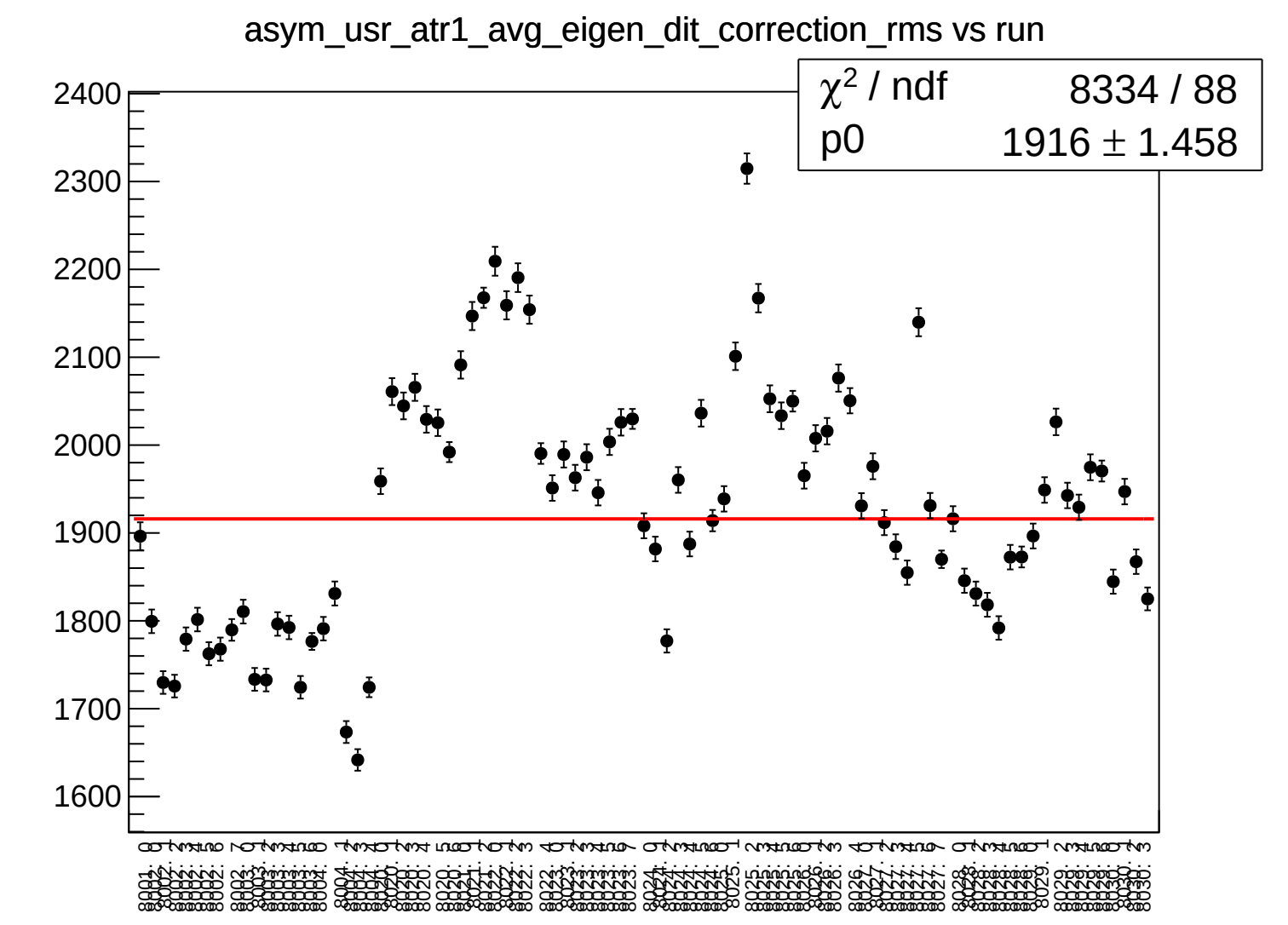

pull1D
Entries 89
Mean −0.02642
Std Dev 1.045

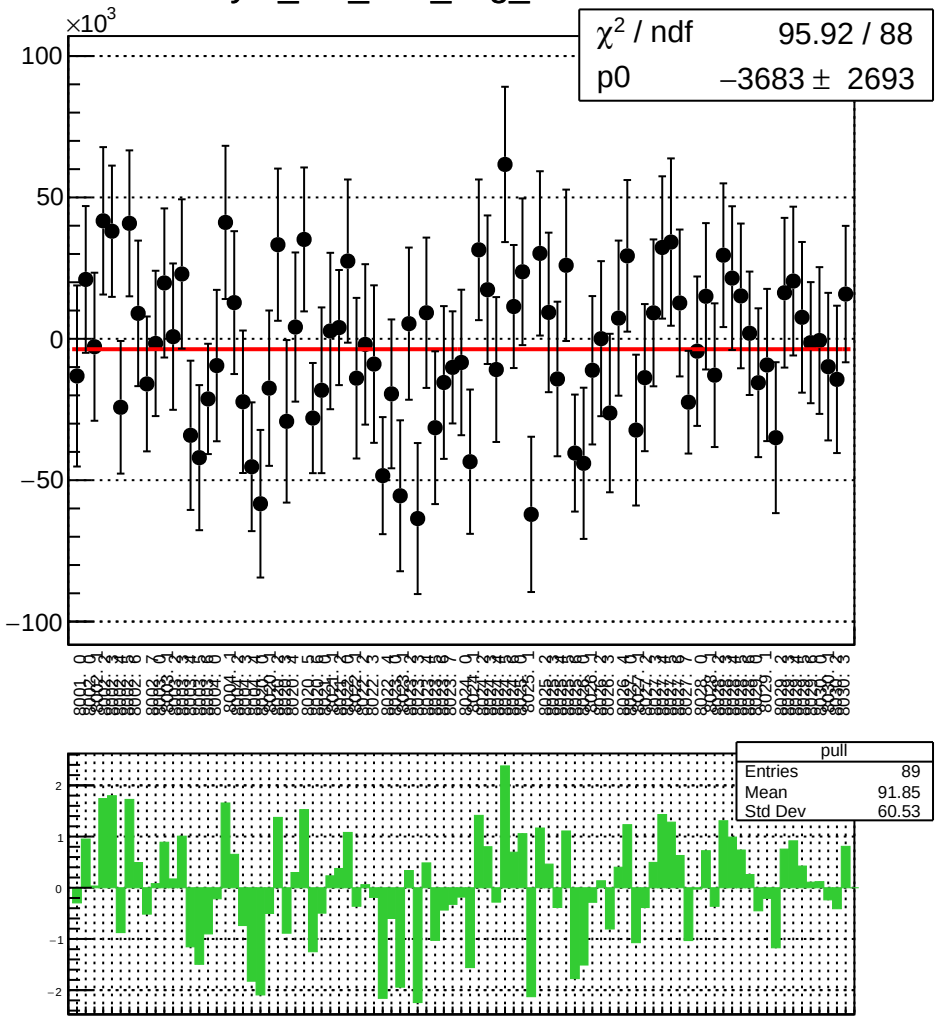

asym_usr_atr1_avg_dit_correction_rms vs run
χ² / ndf 8334 / 88
p0 1916 ± 1.458
2400
2300
2200
2100
2000
1900
1800
1700
1600

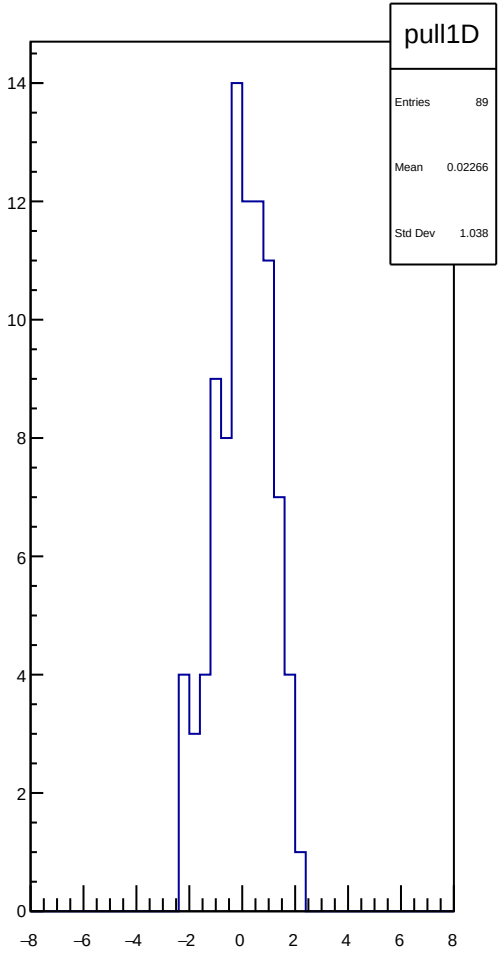

eigen_dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 94.02 / 88
p0 −3818 ± 1768
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −43.55
Std Dev 54.7
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.01623
Std Dev 1.028
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

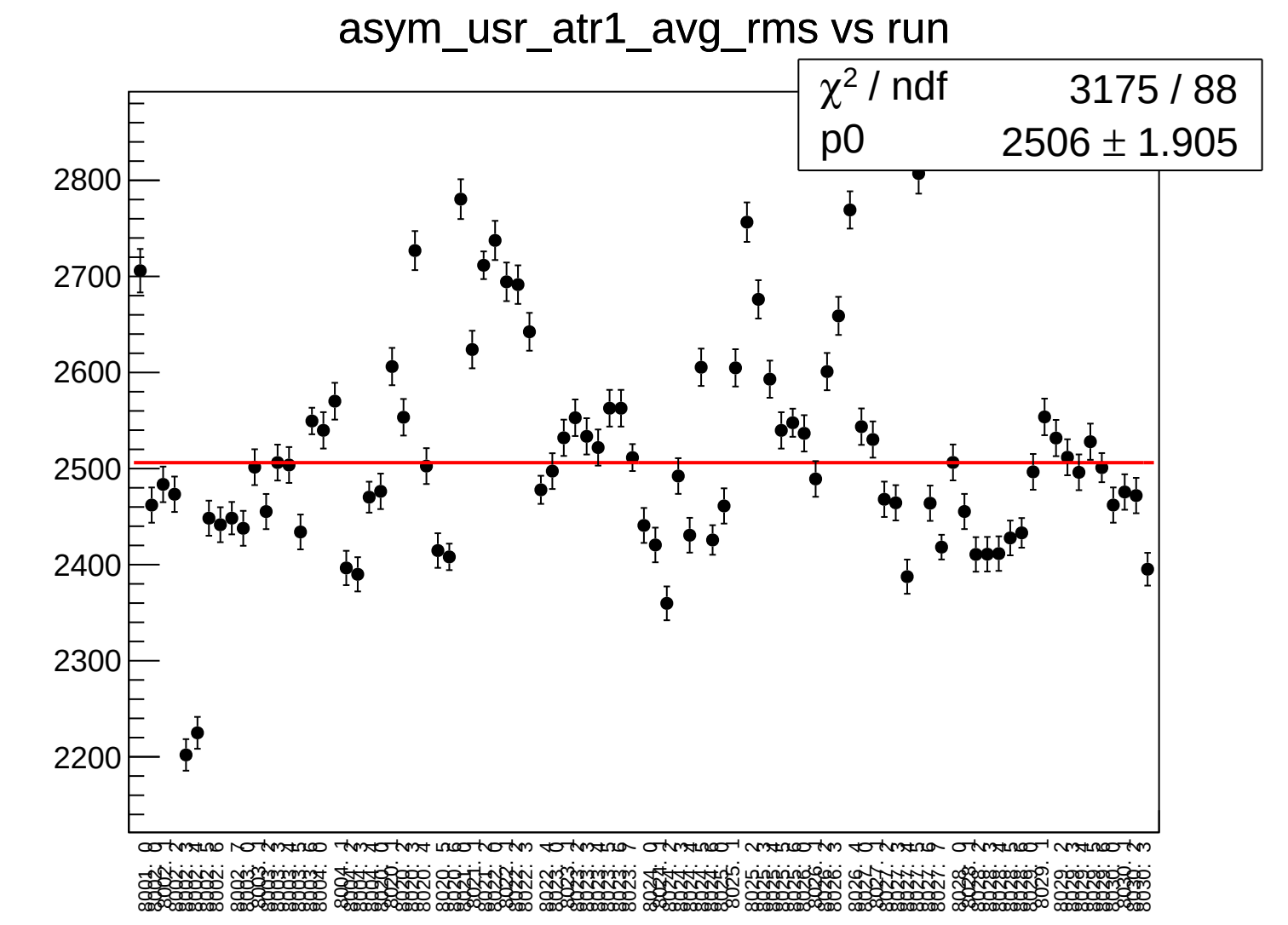

eigen_dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 152.1 / 88
p0 1647 ± 1.25
1720
1700
1680
1660
1640
1620
1600

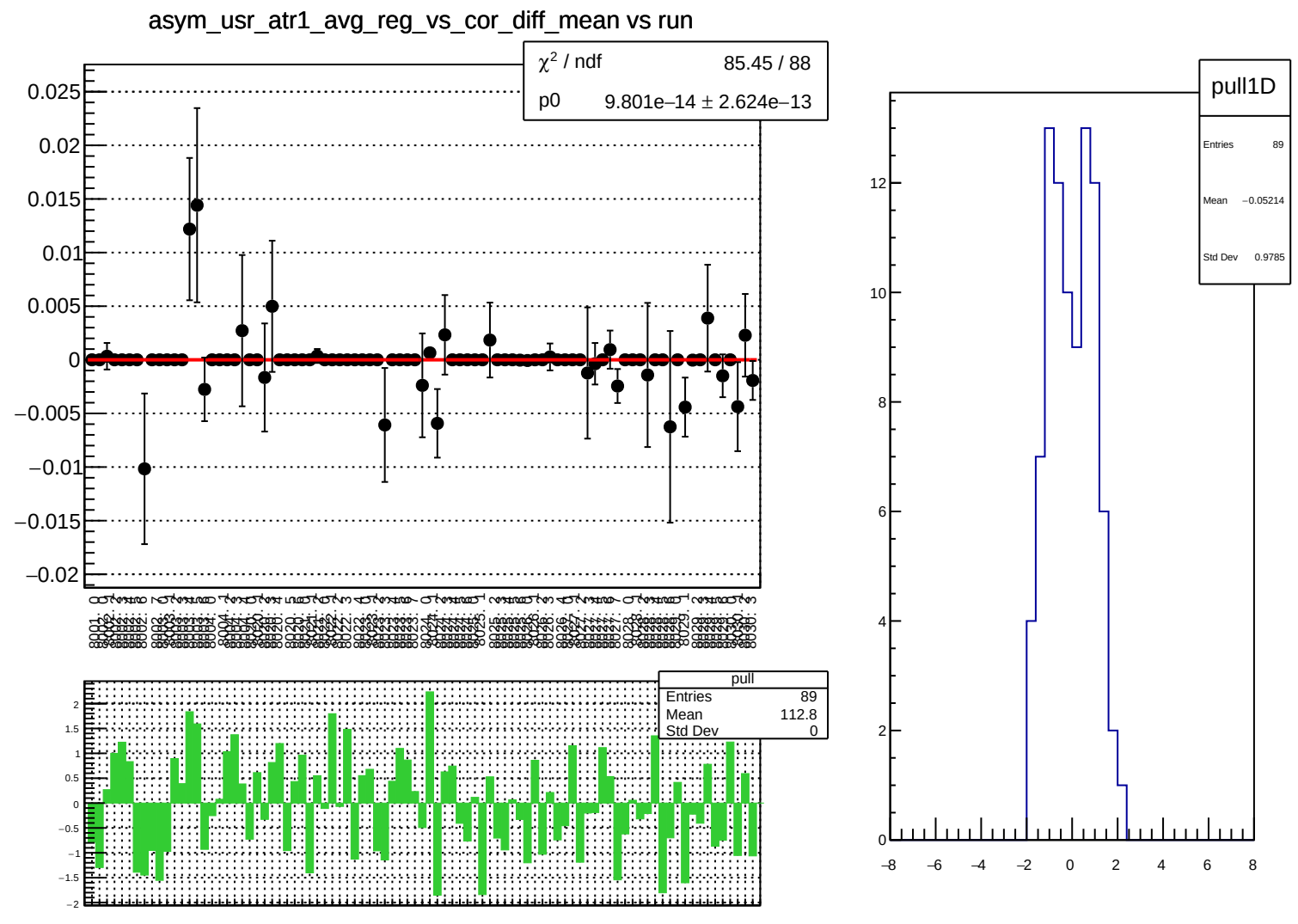

asym_usr_atr1_avg_eigen_dit_correction_mean vs run
χ² / ndf 97.28 / 88
p0 306 ± 2062
pull
Entries 89
Mean 147
Std Dev 0
pull1D
Entries 89
Mean −0.02642
Std Dev 1.045

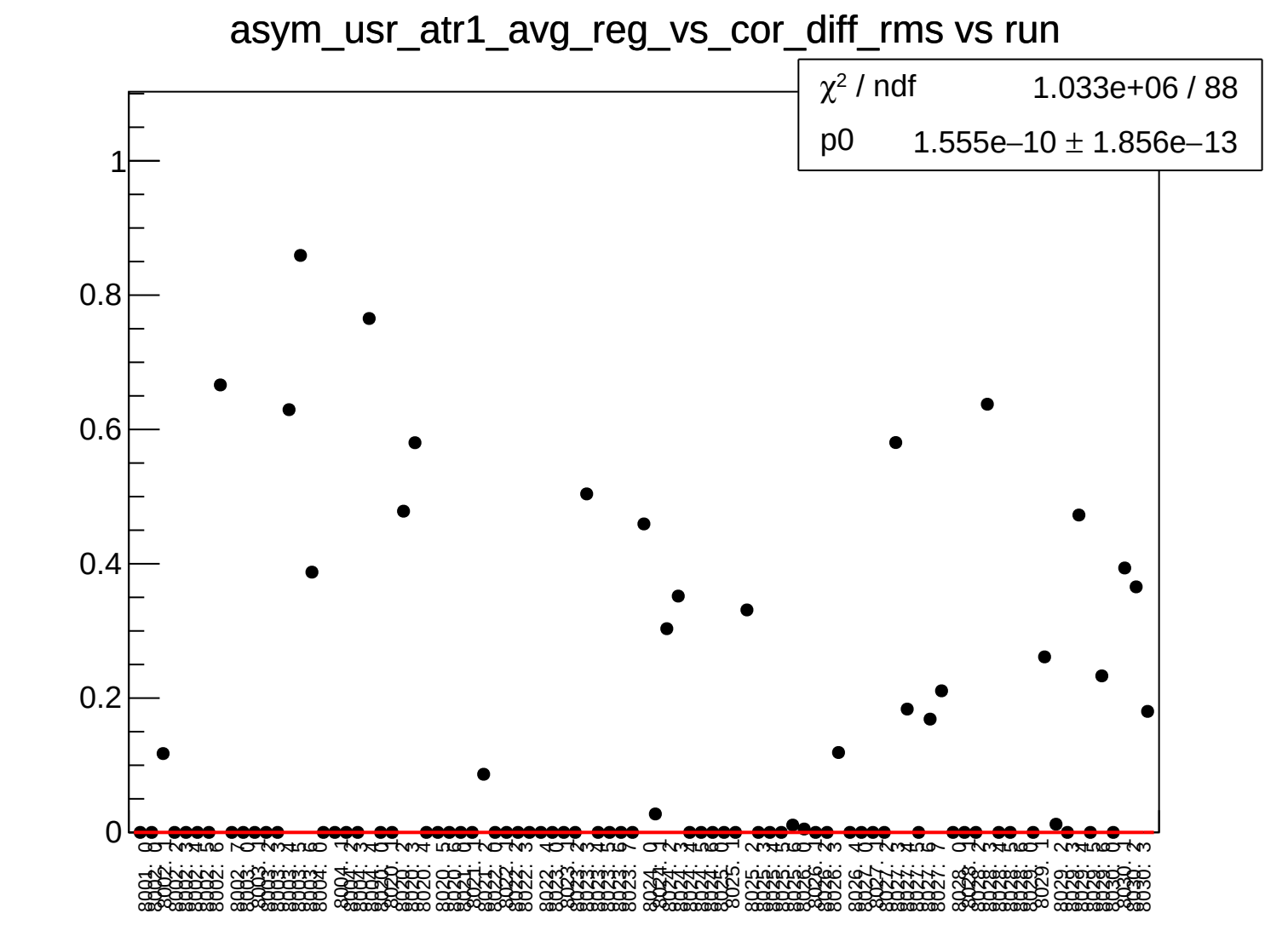

asym_usr_atr1_avg_eigen_dit_correction_rms vs run
χ² / ndf 8334 / 88
p0 1916 ± 1.458
2400
2300
2200
2100
2000
1900
1800
1700
1600

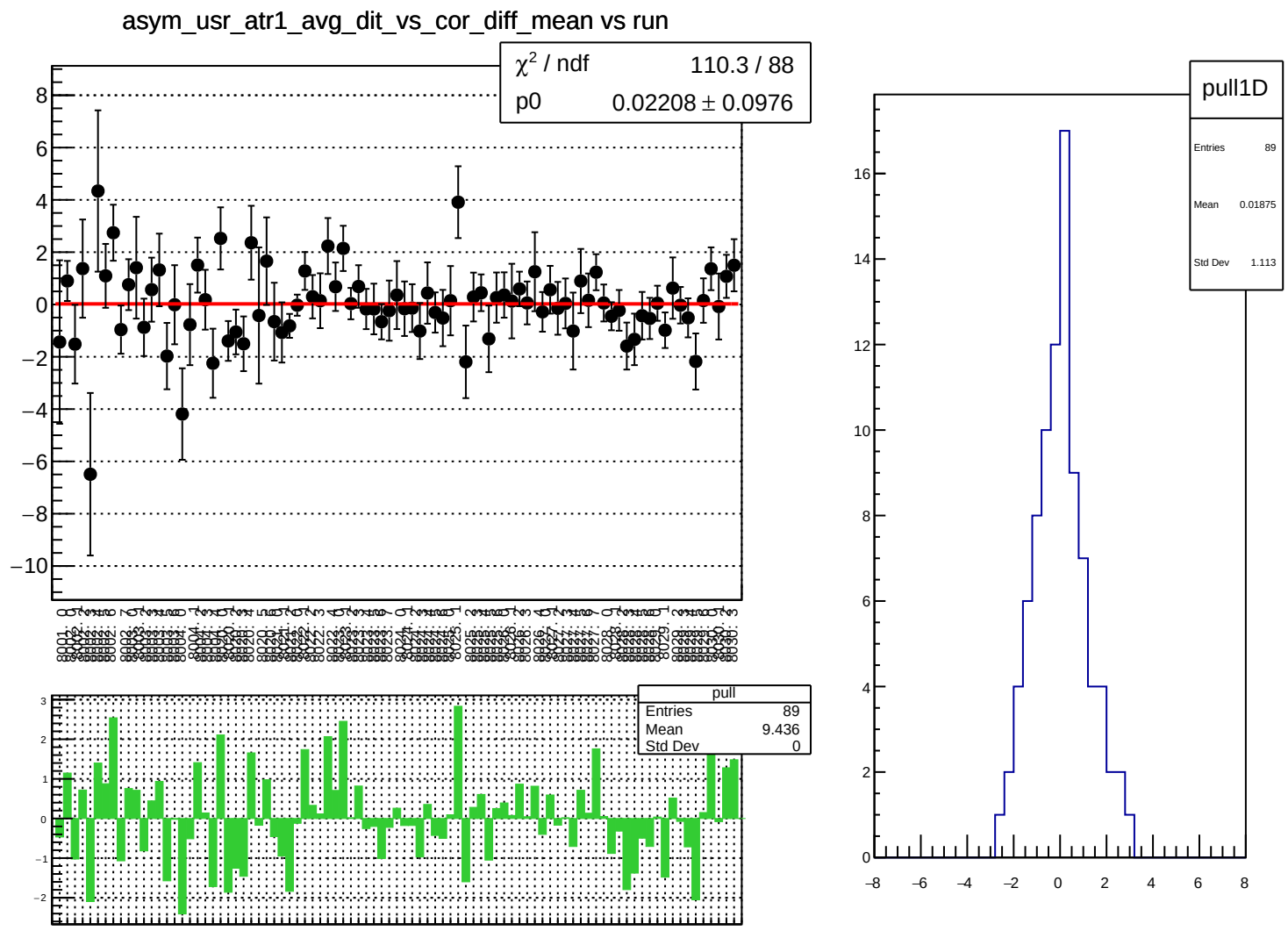

asym_usr_atr1_avg_mean vs run
×10^3
χ² / ndf 95.92 / 88
p0 −3683 ± 2693
100
50
0
−50
−100
pull
Entries 89
Mean 91.85
Std Dev 60.53
2
1
0
−1
−2

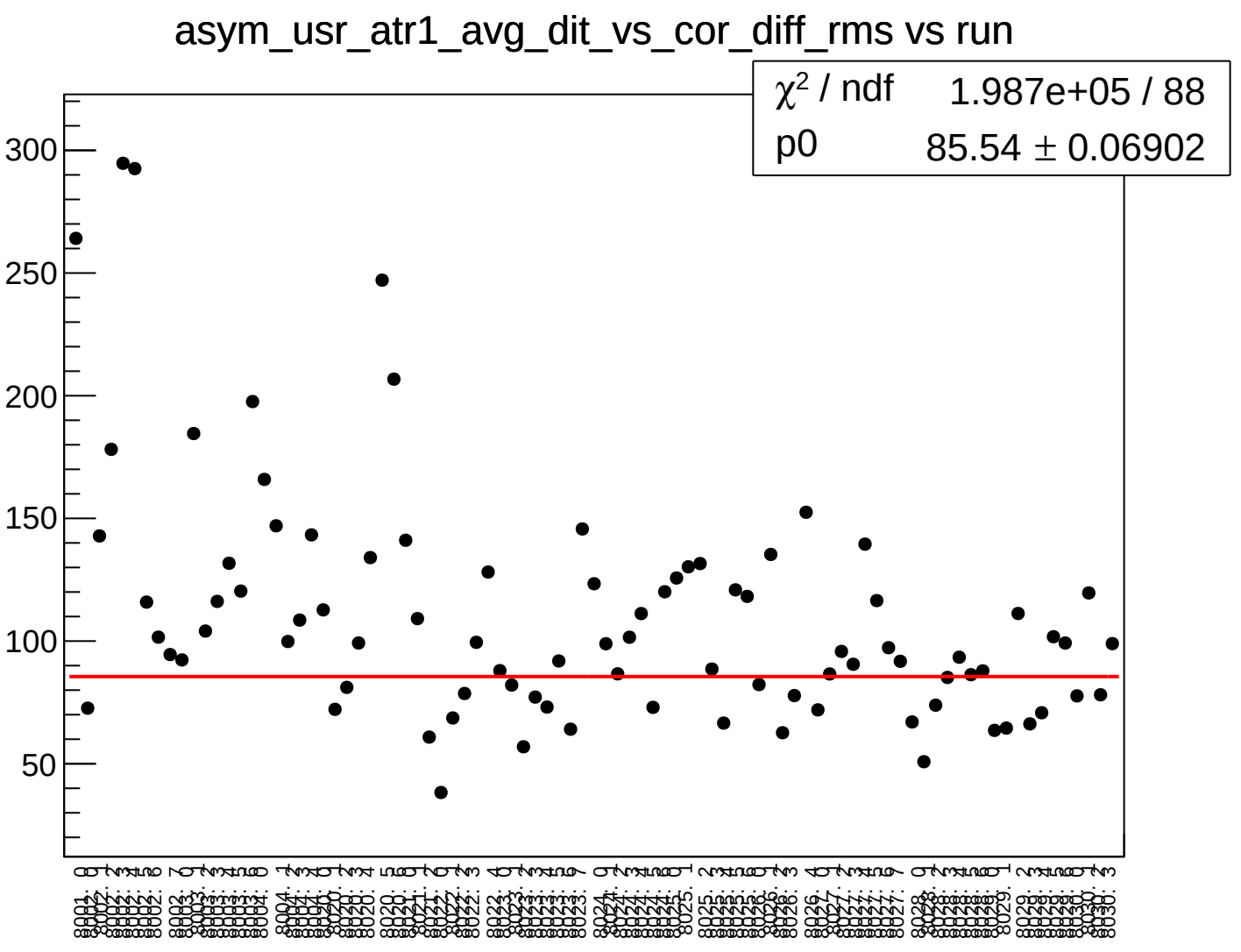

pull1D
Entries 89
Mean 0.02266
Std Dev 1.038
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

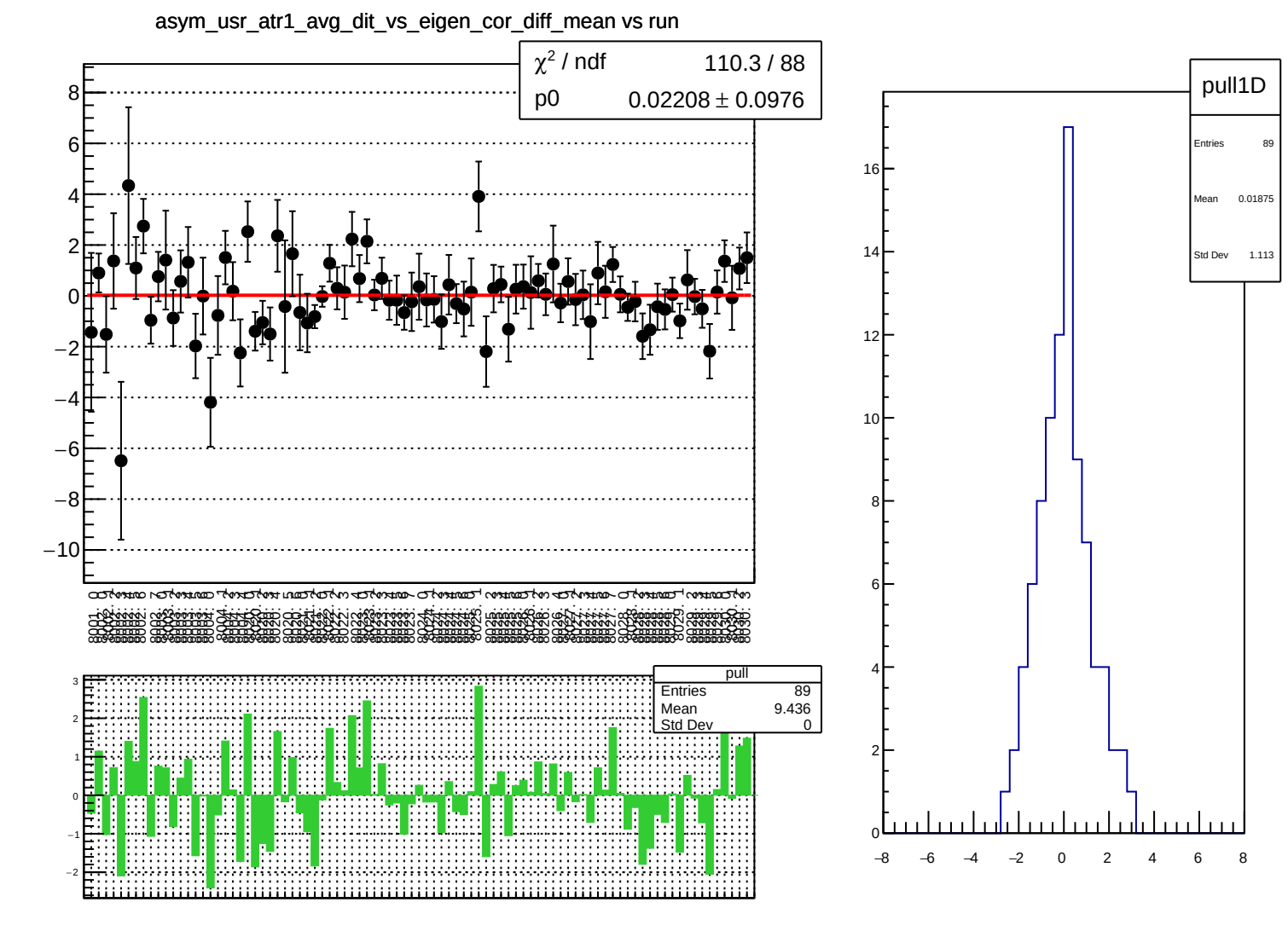

asym_usr_atr1_avg_rms vs run
χ² / ndf 3175 / 88
p0 2506 ± 1.905
2800
2700
2600
2500
2400
2300
2200

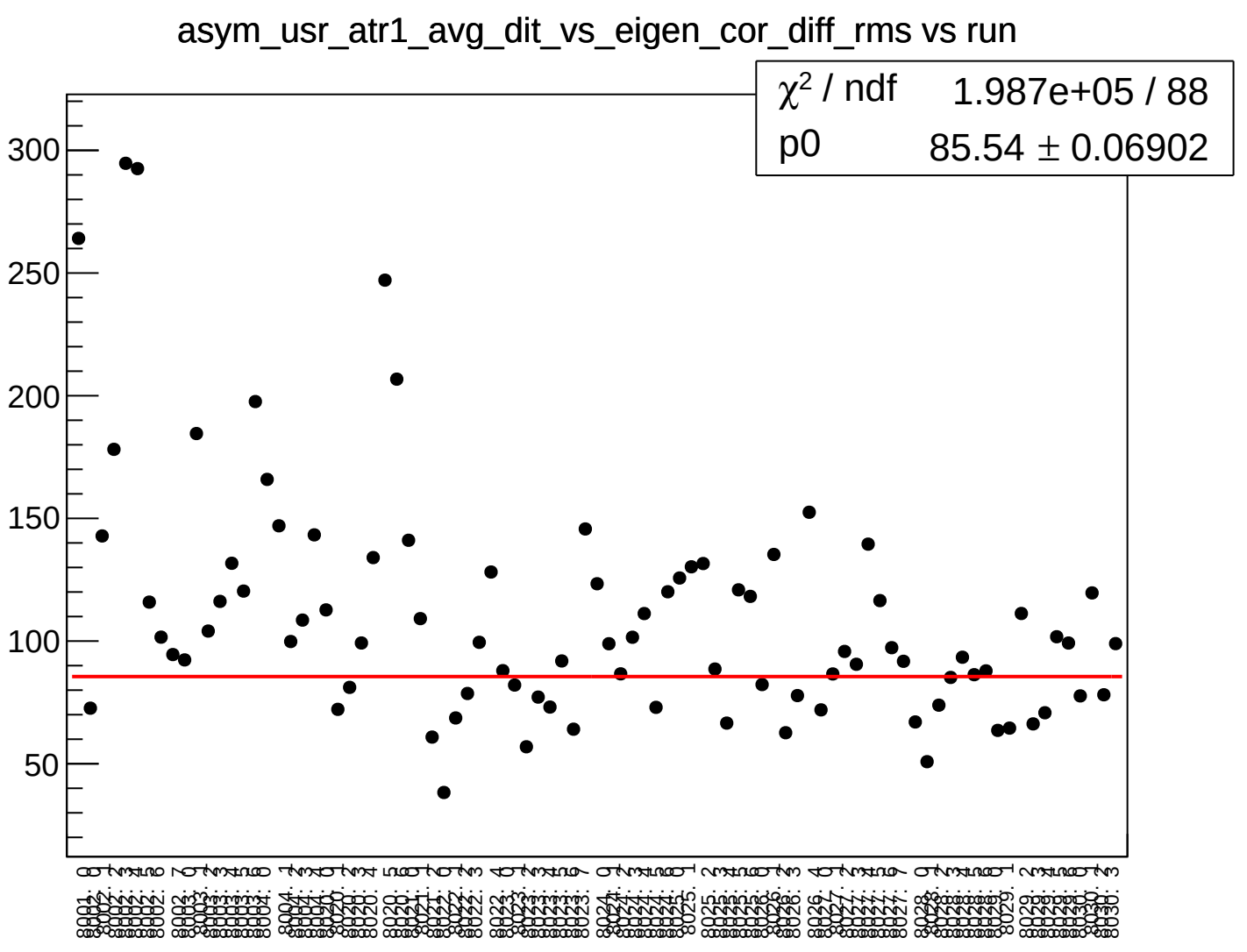

asym_usr_atr1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 85.45 / 88
p0 9.801e−14 ± 2.624e−13
pull
Entries 89
Mean 112.8
Std Dev 0
pull1D
Entries 89
Mean −0.05214
Std Dev 0.9785

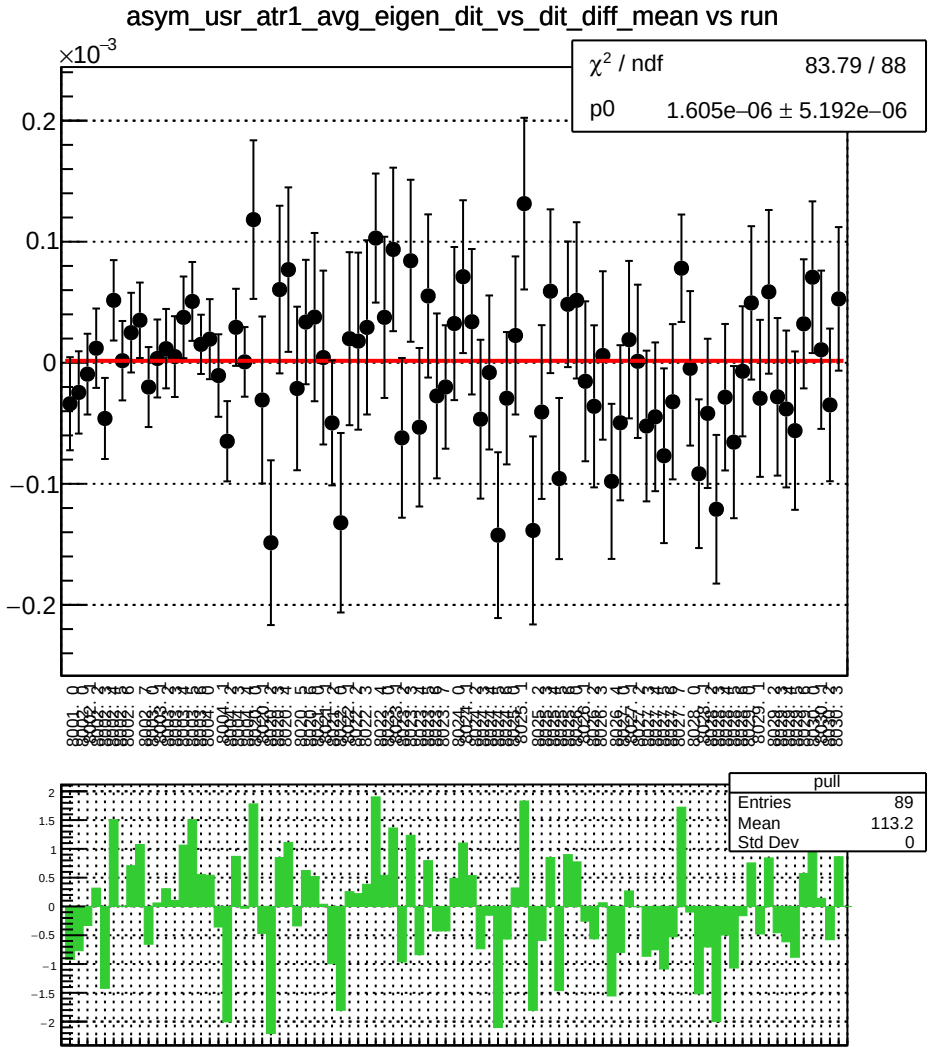

asym_usr_atr1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.033e+06 / 88
p0 1.555e−10 ± 1.856e−13
1
0.8
0.6
0.4
0.2
0

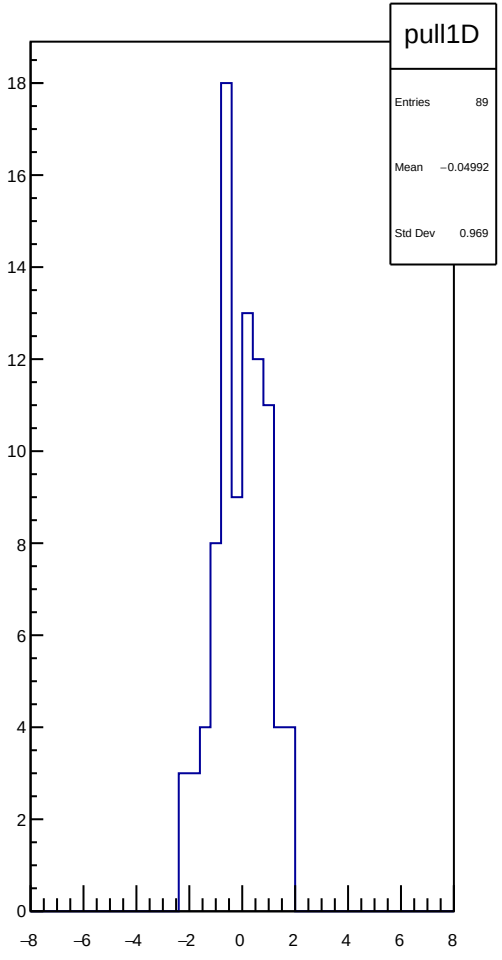

asym_usr_atr1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 110.3 / 88
p0 0.02208 ± 0.0976
pull
Entries 89
Mean 9.436
Std Dev 0
pull1D
Entries 89
Mean 0.01875
Std Dev 1.113

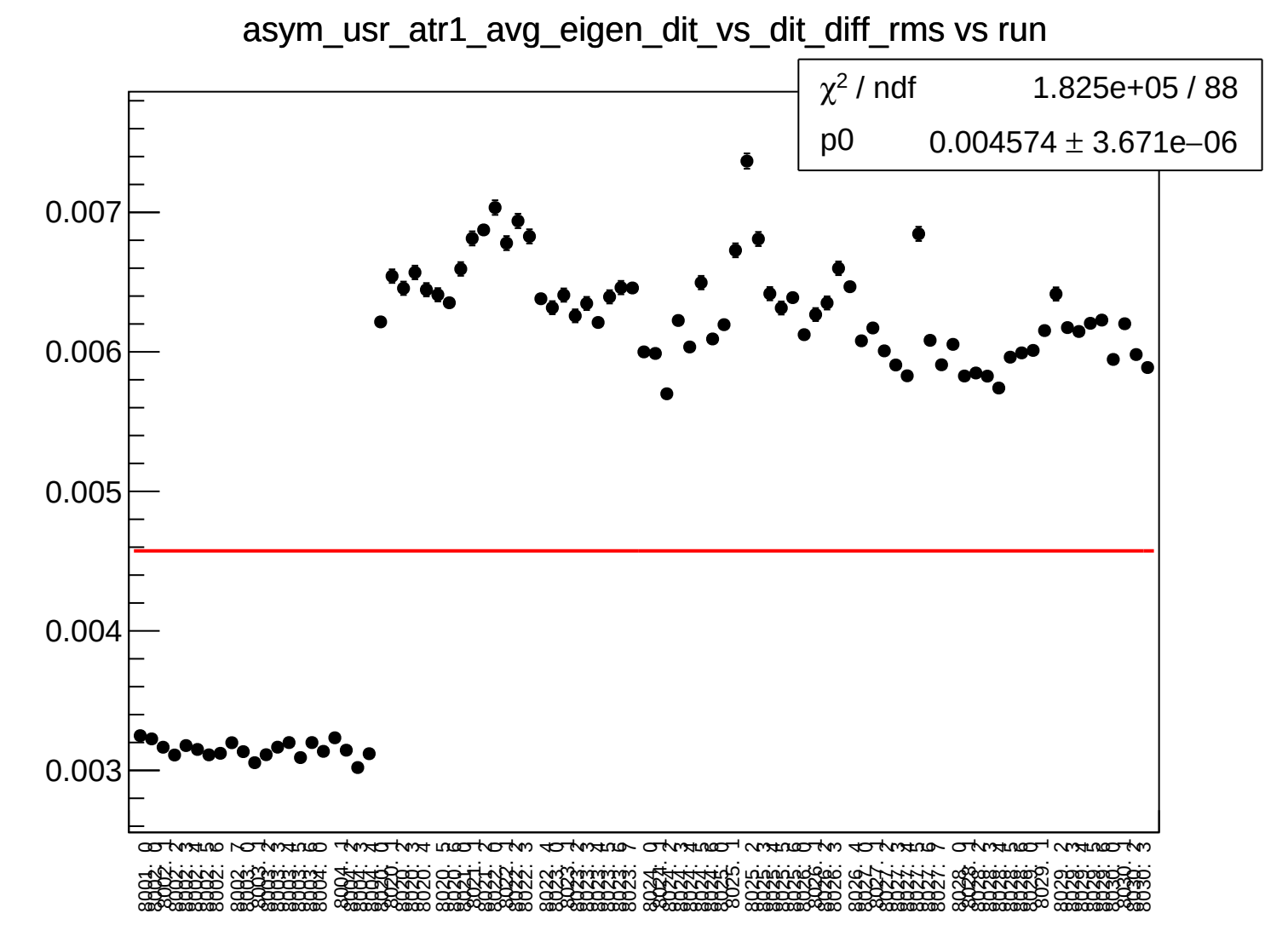

asym_usr_atr1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.987e+05 / 88
p0 85.54 ± 0.06902
300
250
200
150
100
50

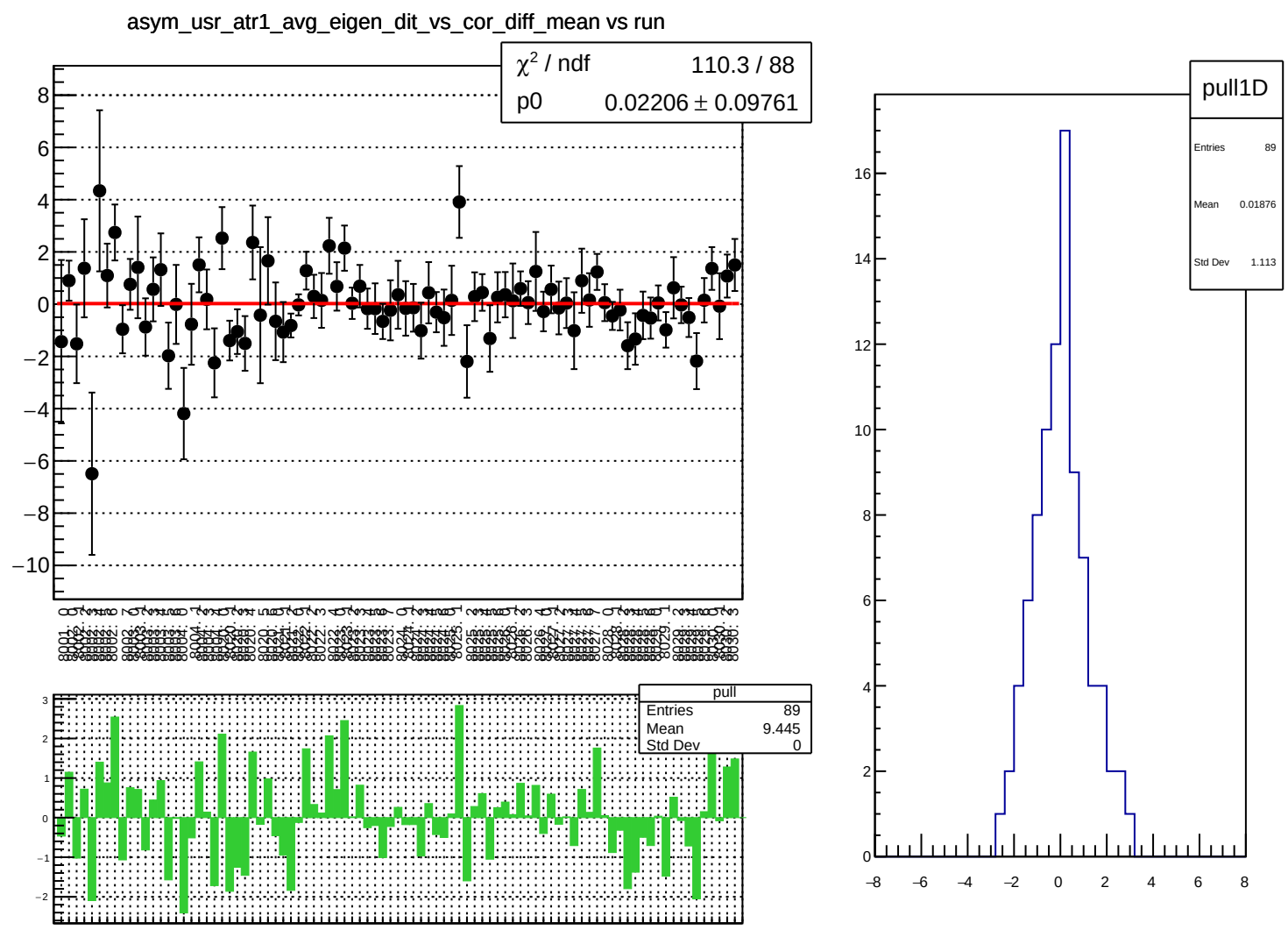

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 110.3 / 88
p0 0.02208 ± 0.0976
pull
Entries 89
Mean 9.436
Std Dev 0
pull1D
Entries 89
Mean 0.01875
Std Dev 1.113

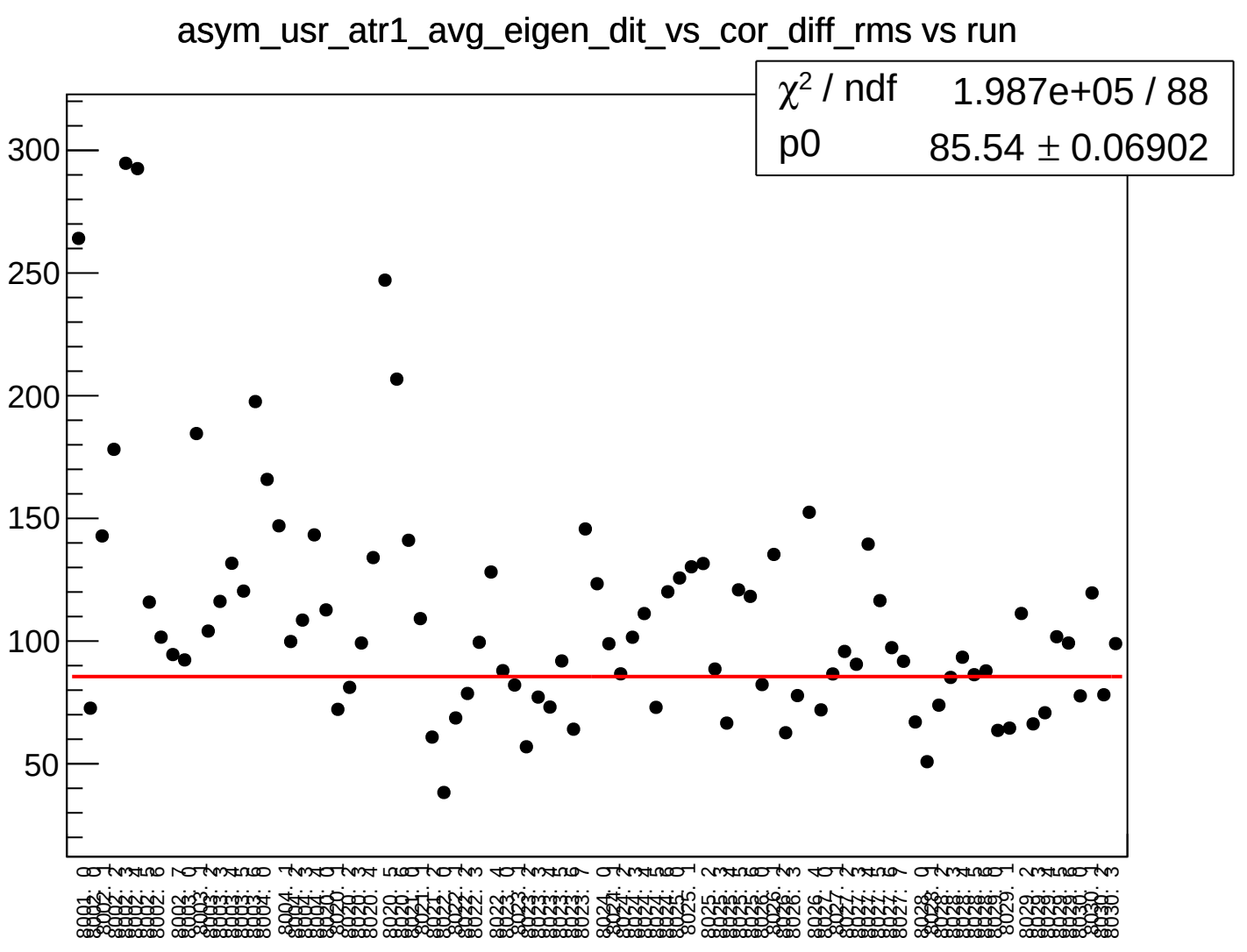

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.987e+05 / 88
p0 85.54 ± 0.06902
300
250
200
150
100
50

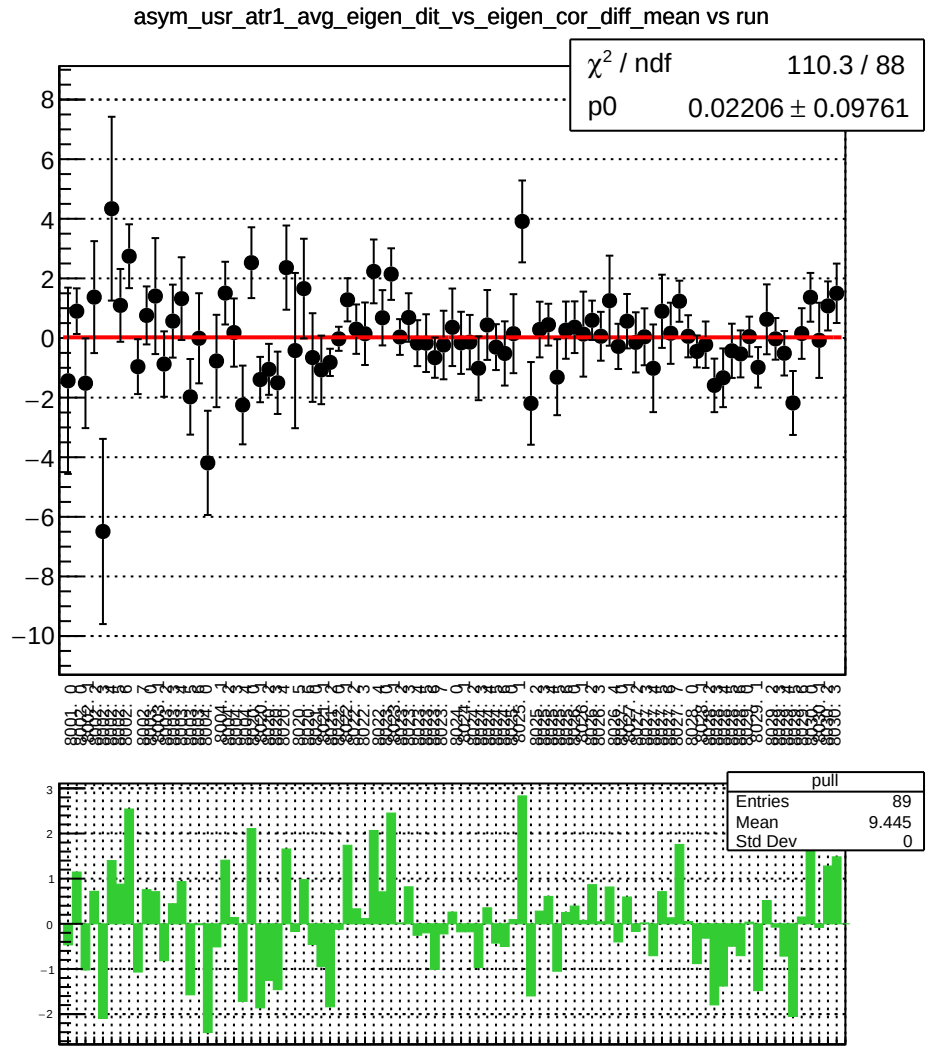

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 83.79 / 88
p0 1.605e−06 ± 5.192e−06
pull
Entries 89
Mean 113.2
Std Dev 0

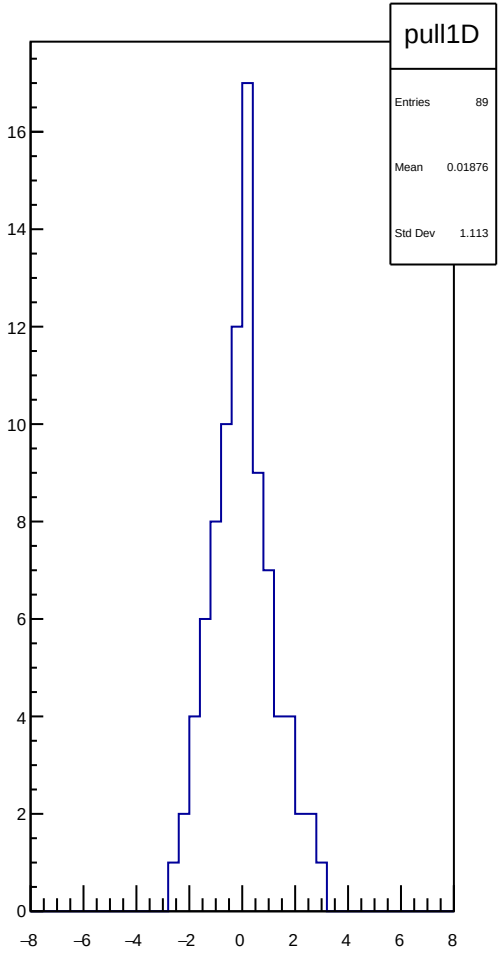

pull1D
Entries 89
Mean −0.04992
Std Dev 0.969

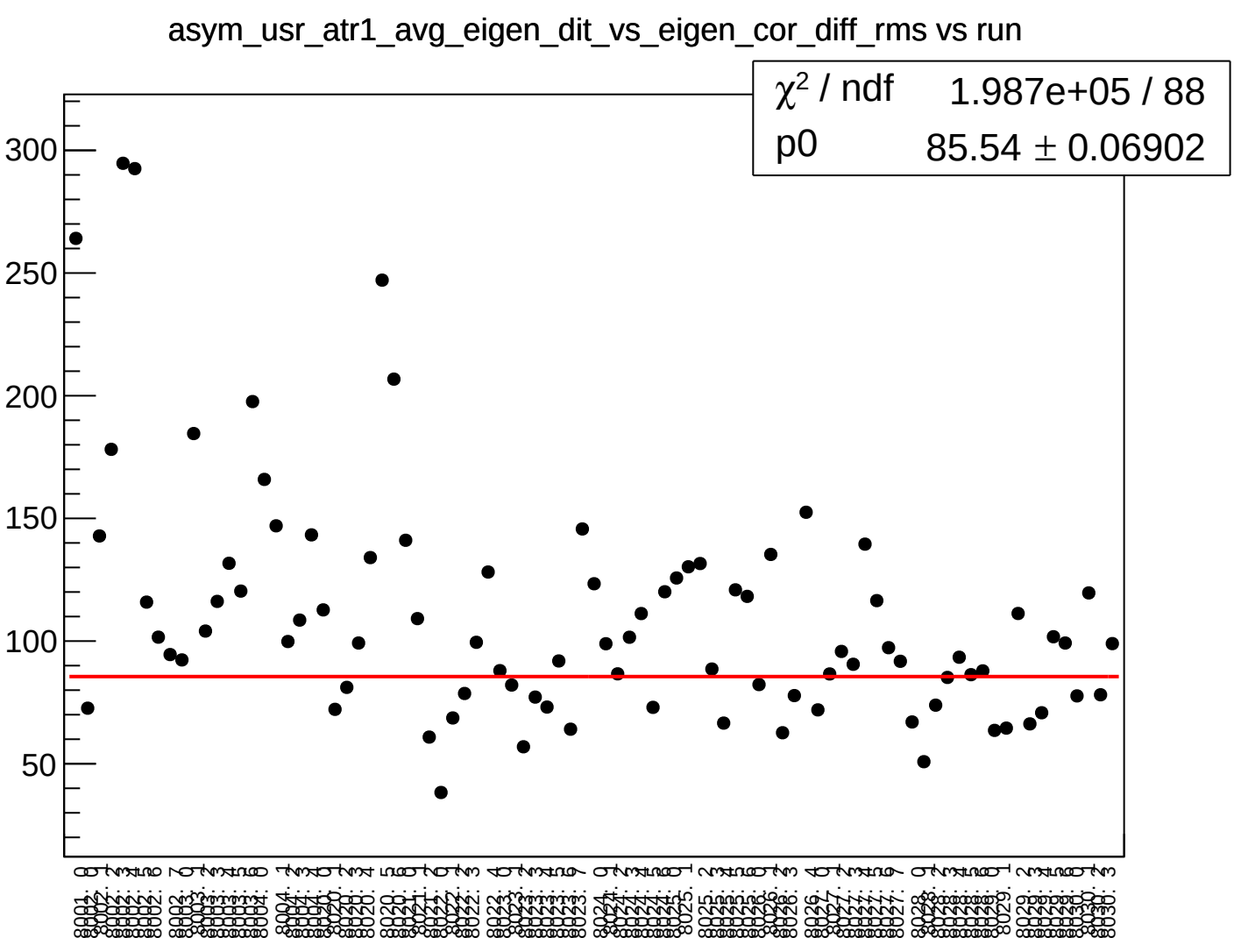

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.825e+05 / 88
p0 0.004574 ± 3.671e−06
0.007
0.006
0.005
0.004
0.003

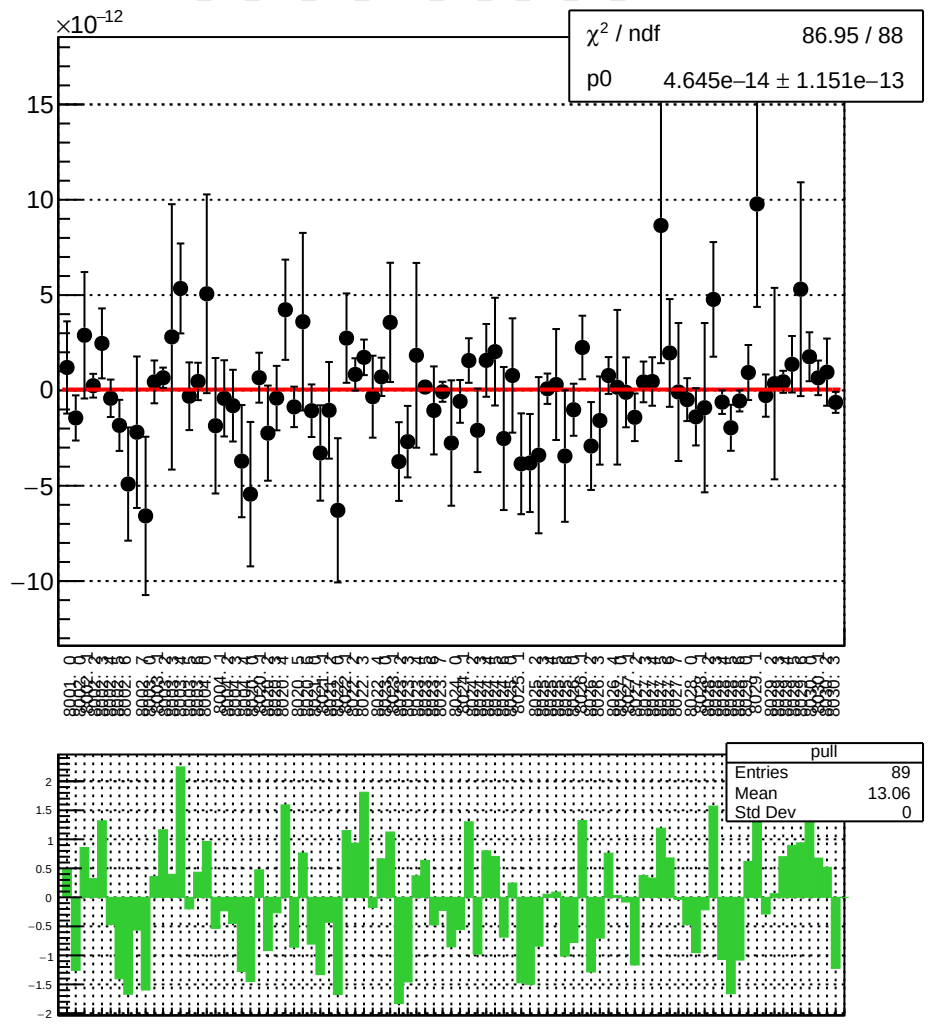

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 110.3 / 88
p0 0.02206 ± 0.09761
pull
Entries 89
Mean 9.445
Std Dev 0
pull1D
Entries 89
Mean 0.01876
Std Dev 1.113

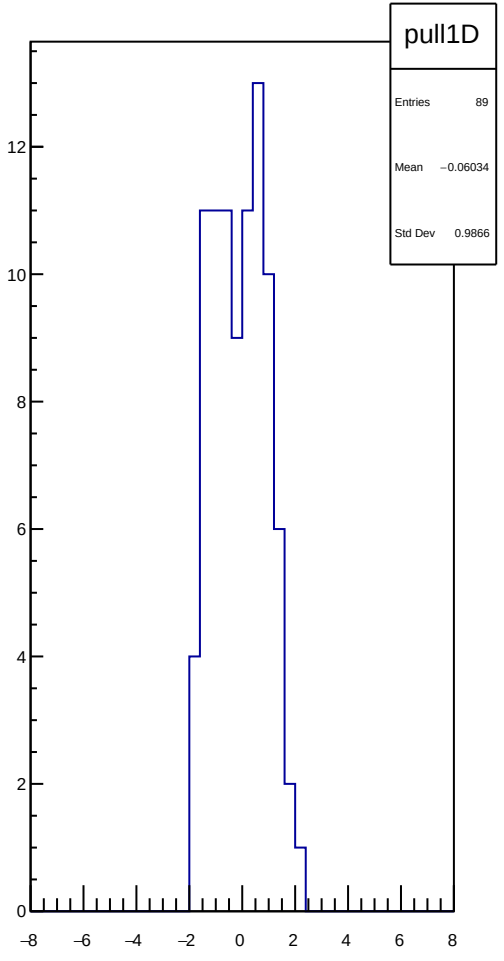

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.987e+05 / 88
p0 85.54 ± 0.06902
300
250
200
150
100
50

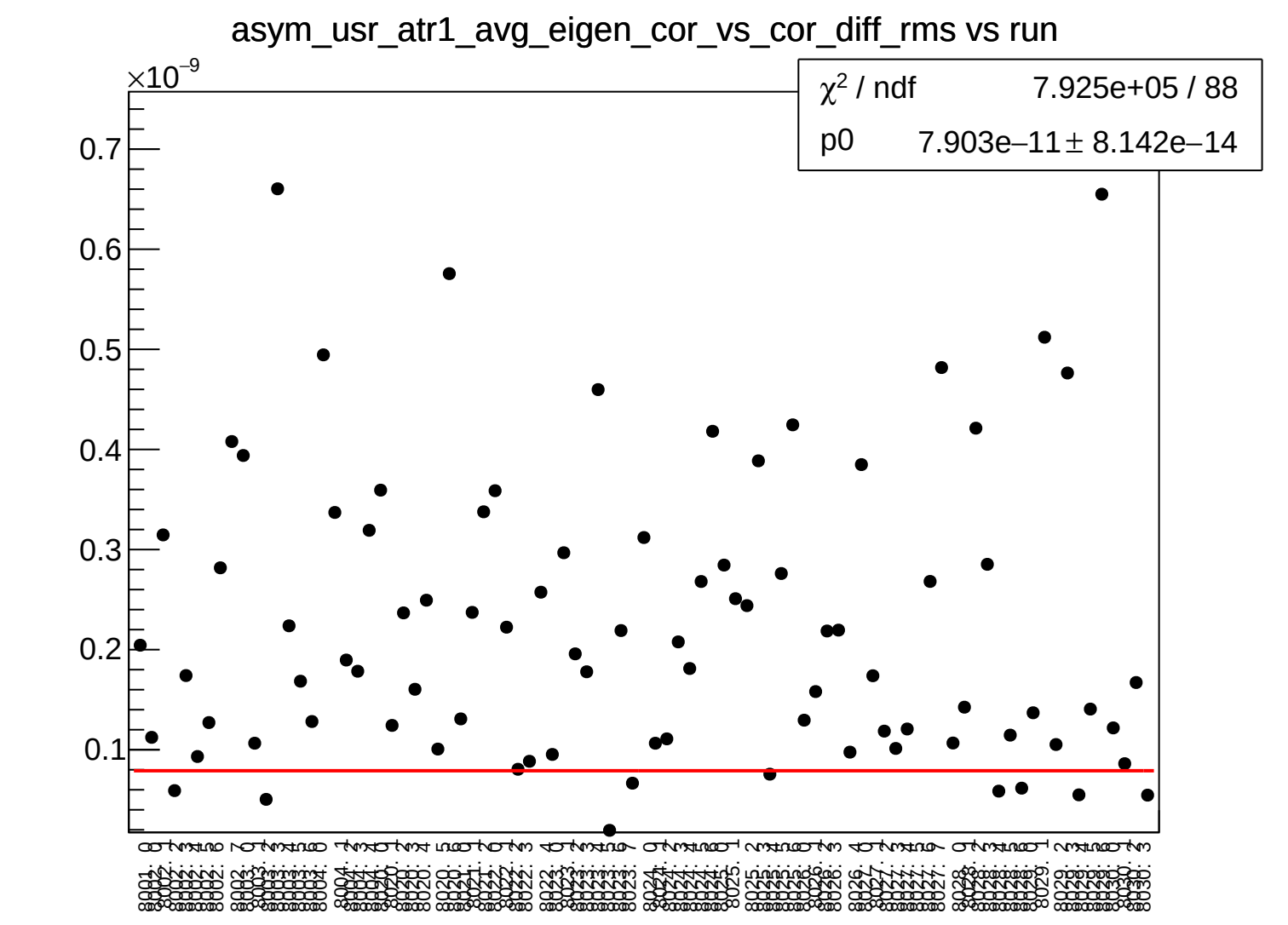

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 110.3 / 88
p0 0.02206 ± 0.09761
pull
Entries 89
Mean 9.445
Std Dev 0

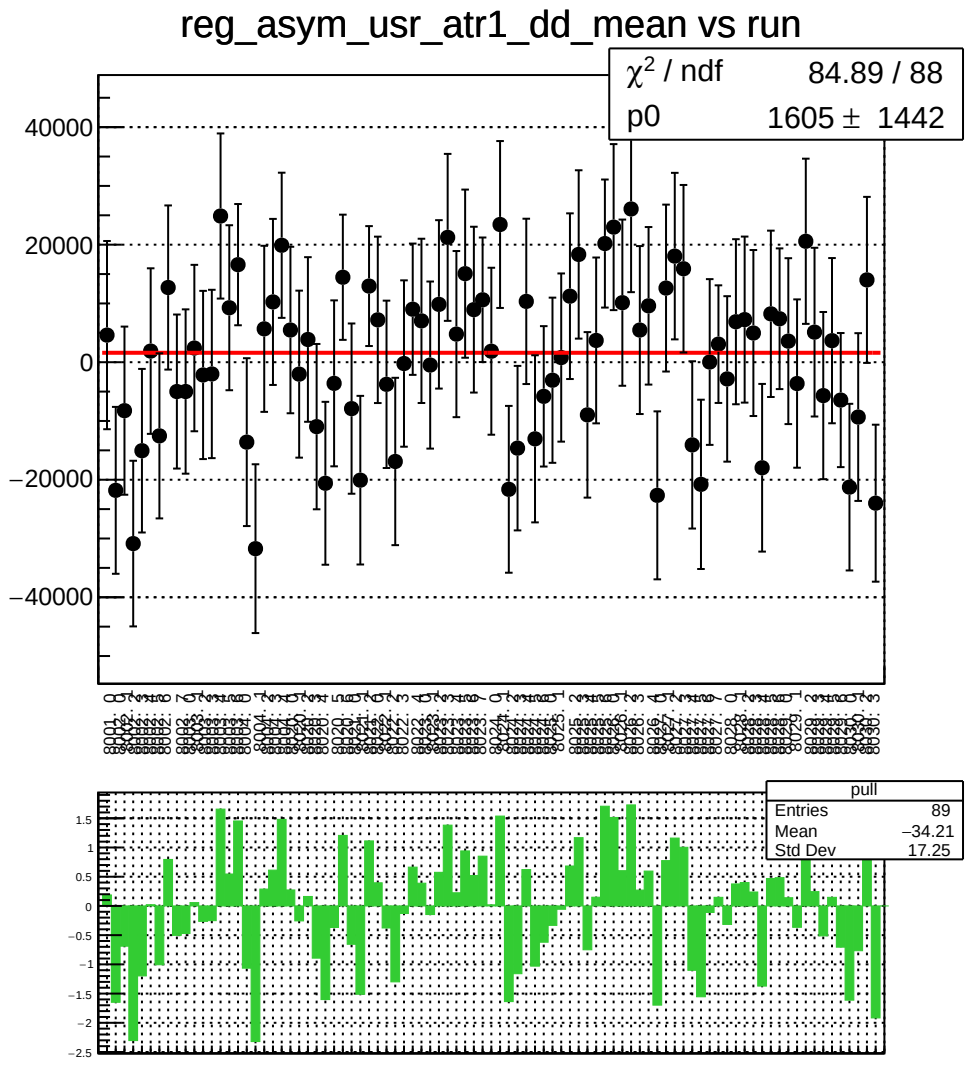

pull1D
Entries 89
Mean 0.01876
Std Dev 1.113

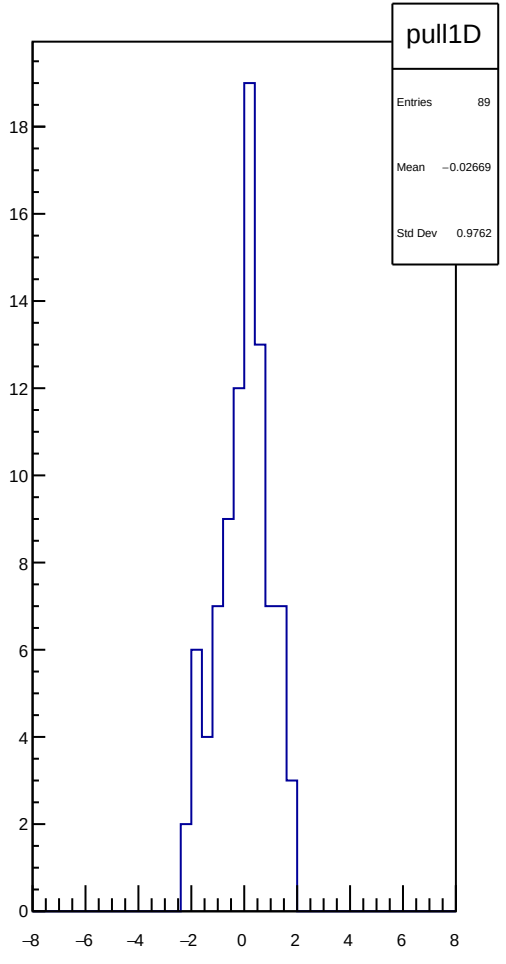

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.987e+05 / 88
p0 85.54 ± 0.06902
300
250
200
150
100
50

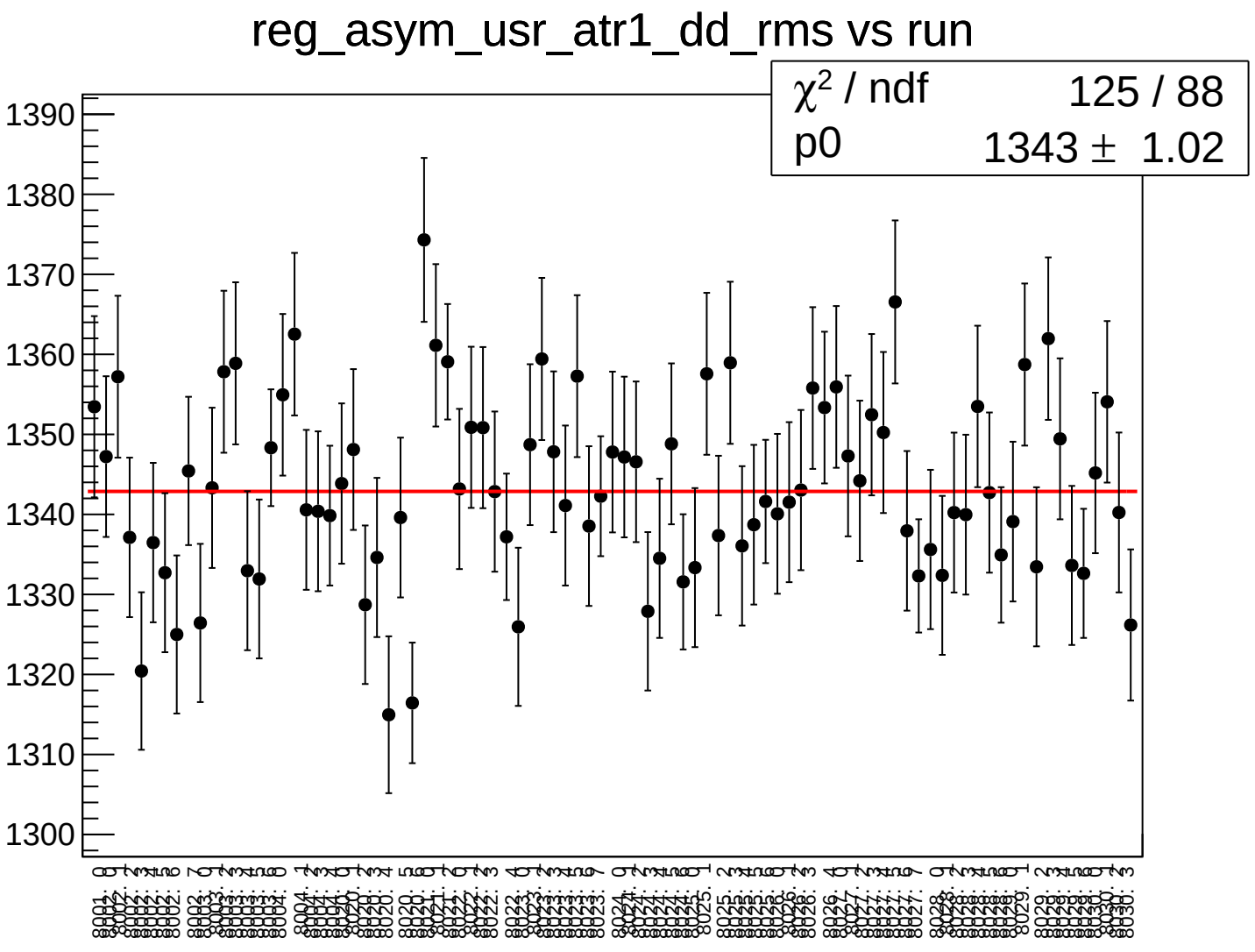

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.95 / 88
p0 4.645e−14 ± 1.151e−13
pull
Entries 89
Mean 13.06
Std Dev 0

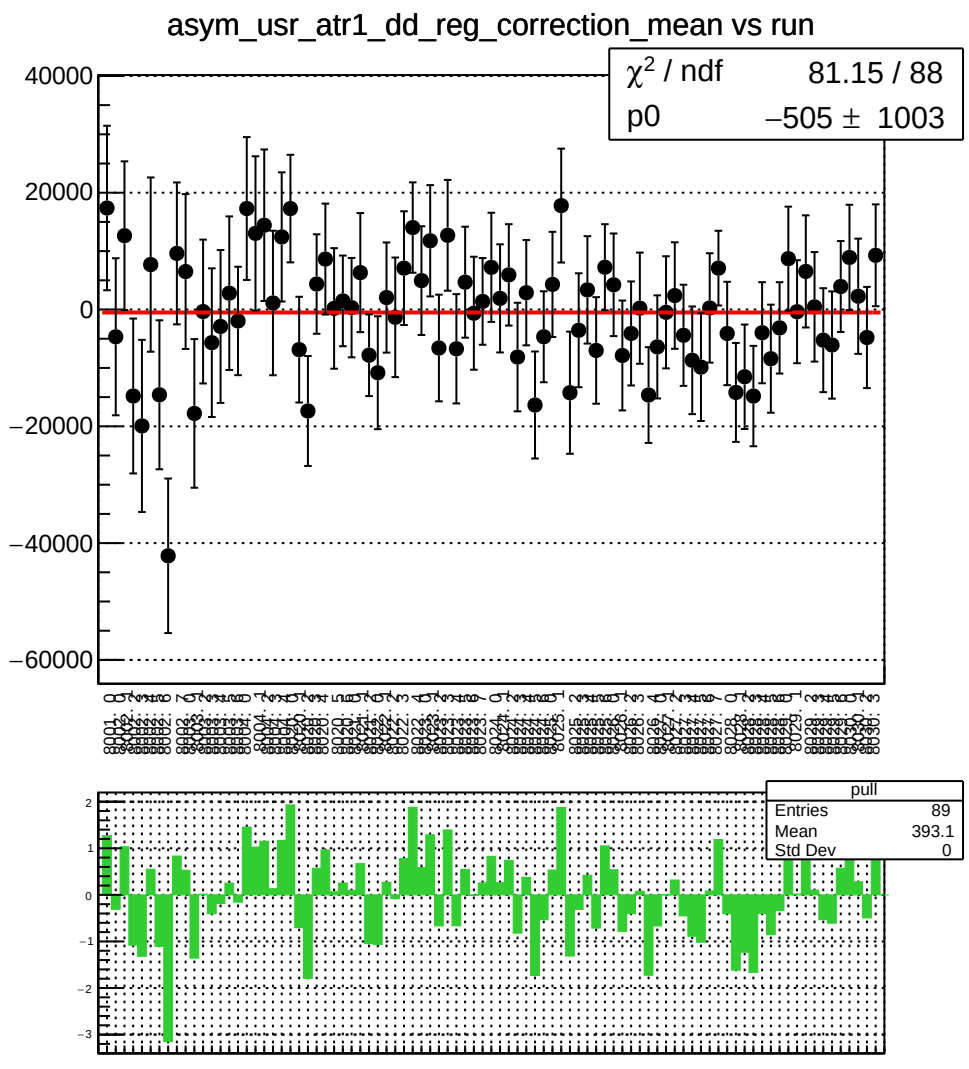

pull1D
Entries 89
Mean −0.06034
Std Dev 0.9866

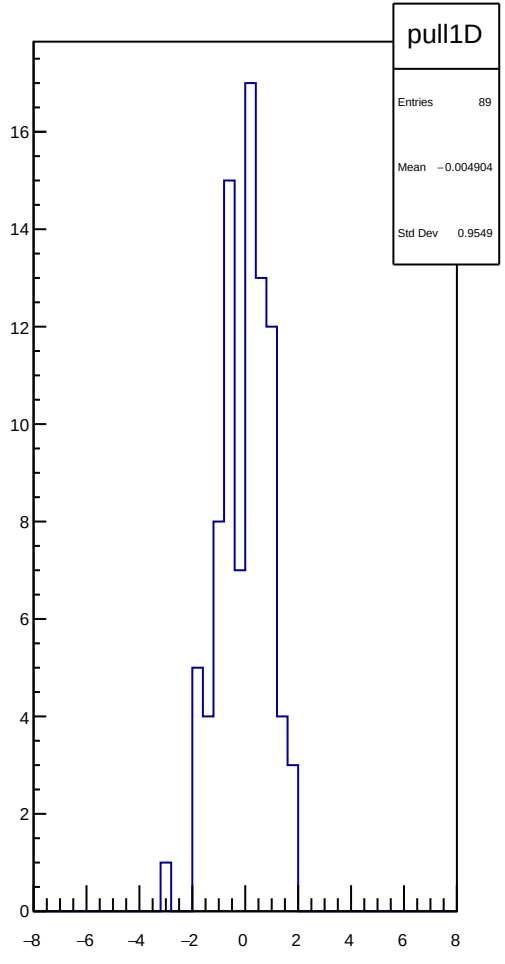

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.925e+05 / 88
p0 7.903e−11 ± 8.142e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

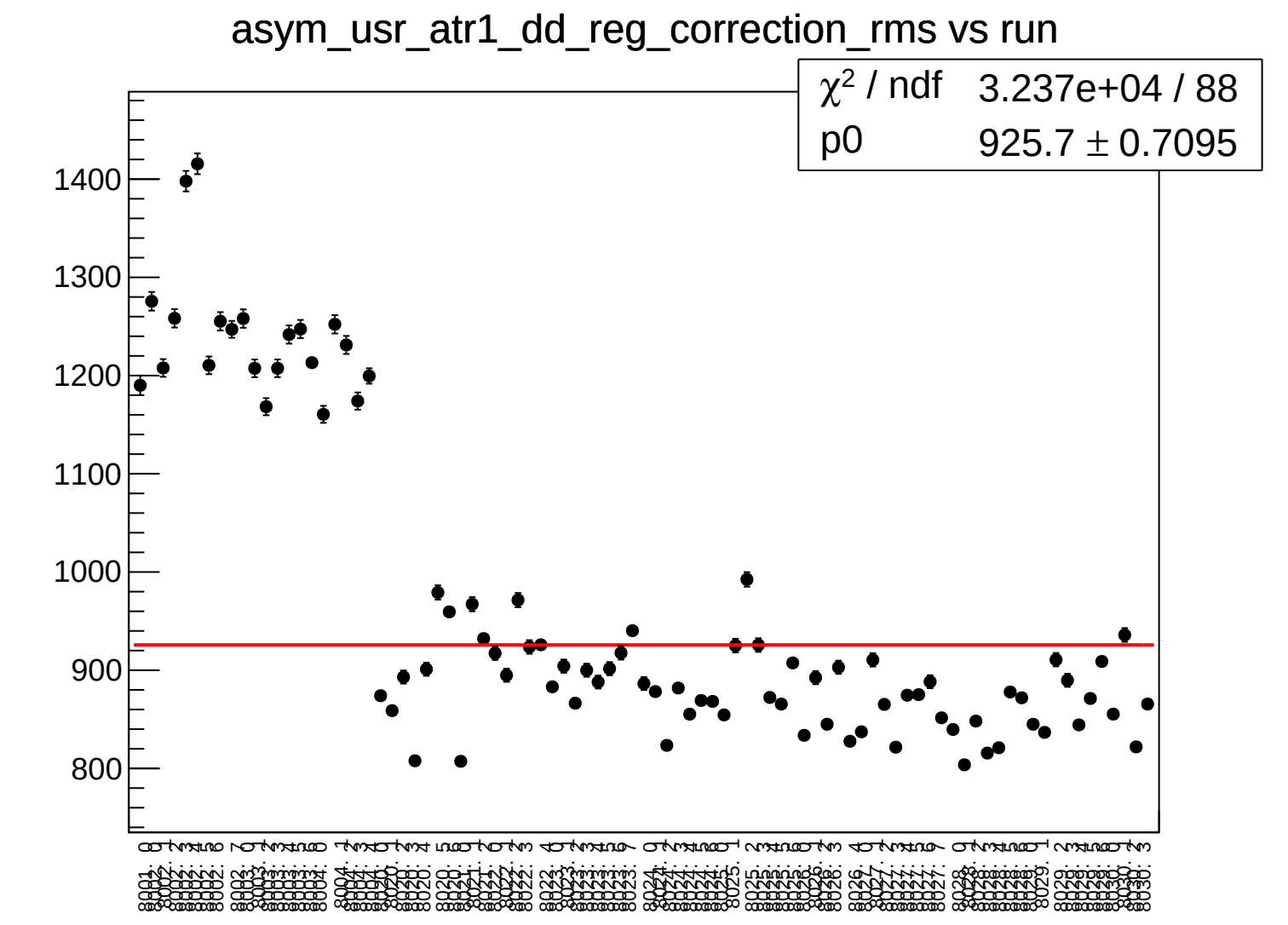

reg_asym_usr_atr1_dd_mean vs run
χ² / ndf 84.89 / 88
p0 1605 ± 1442
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −34.21
Std Dev 17.25
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

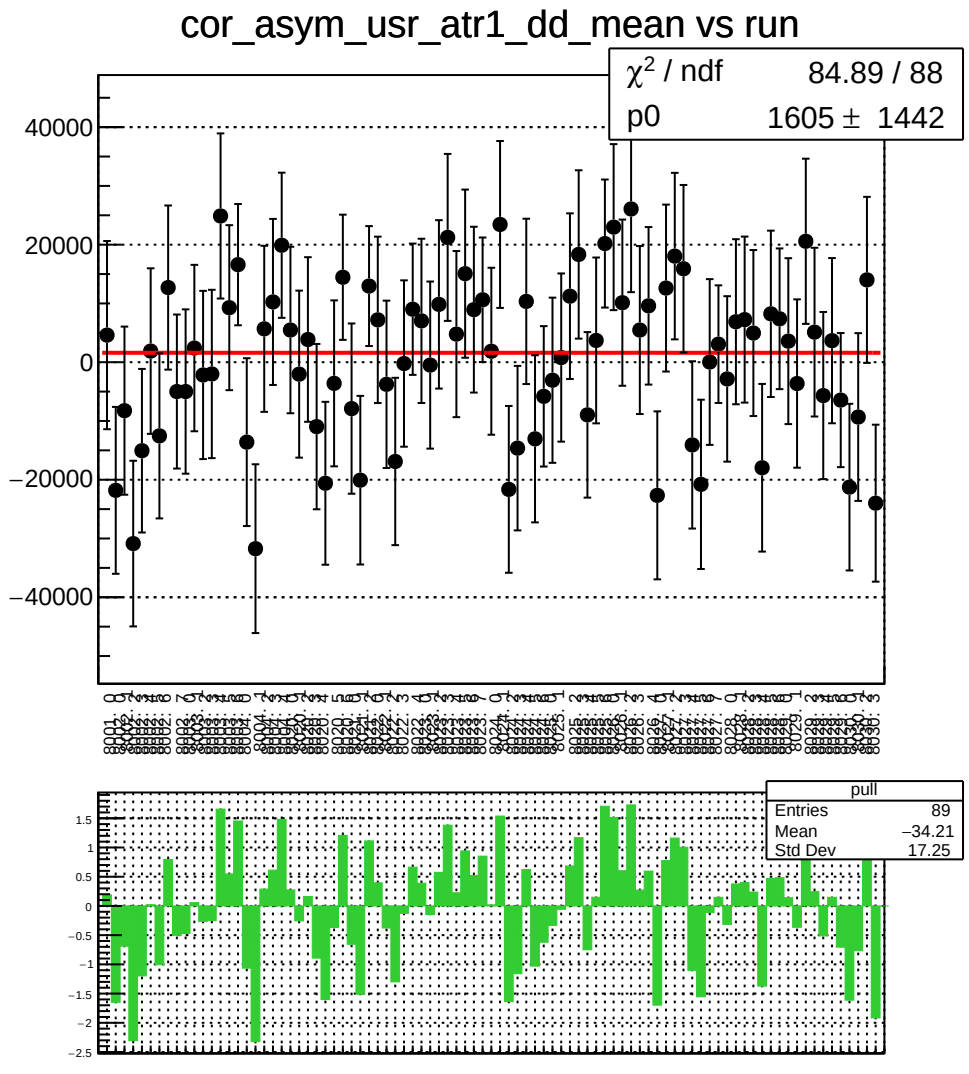

pull1D
Entries 89
Mean −0.02669
Std Dev 0.9762
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

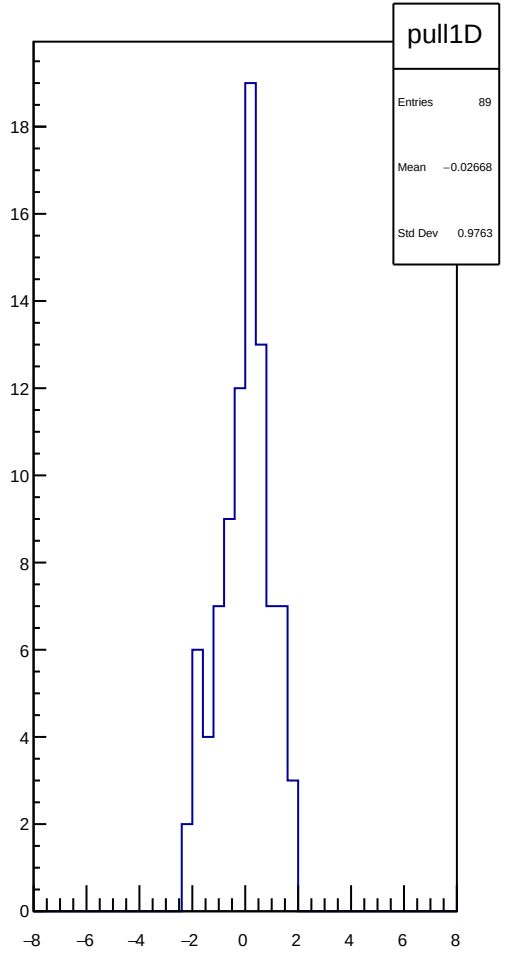

reg_asym_usr_atr1_dd_rms vs run
χ² / ndf 125 / 88
p0 1343 ± 1.02
1390
1380
1370
1360
1350
1340
1330
1320
1310
1300

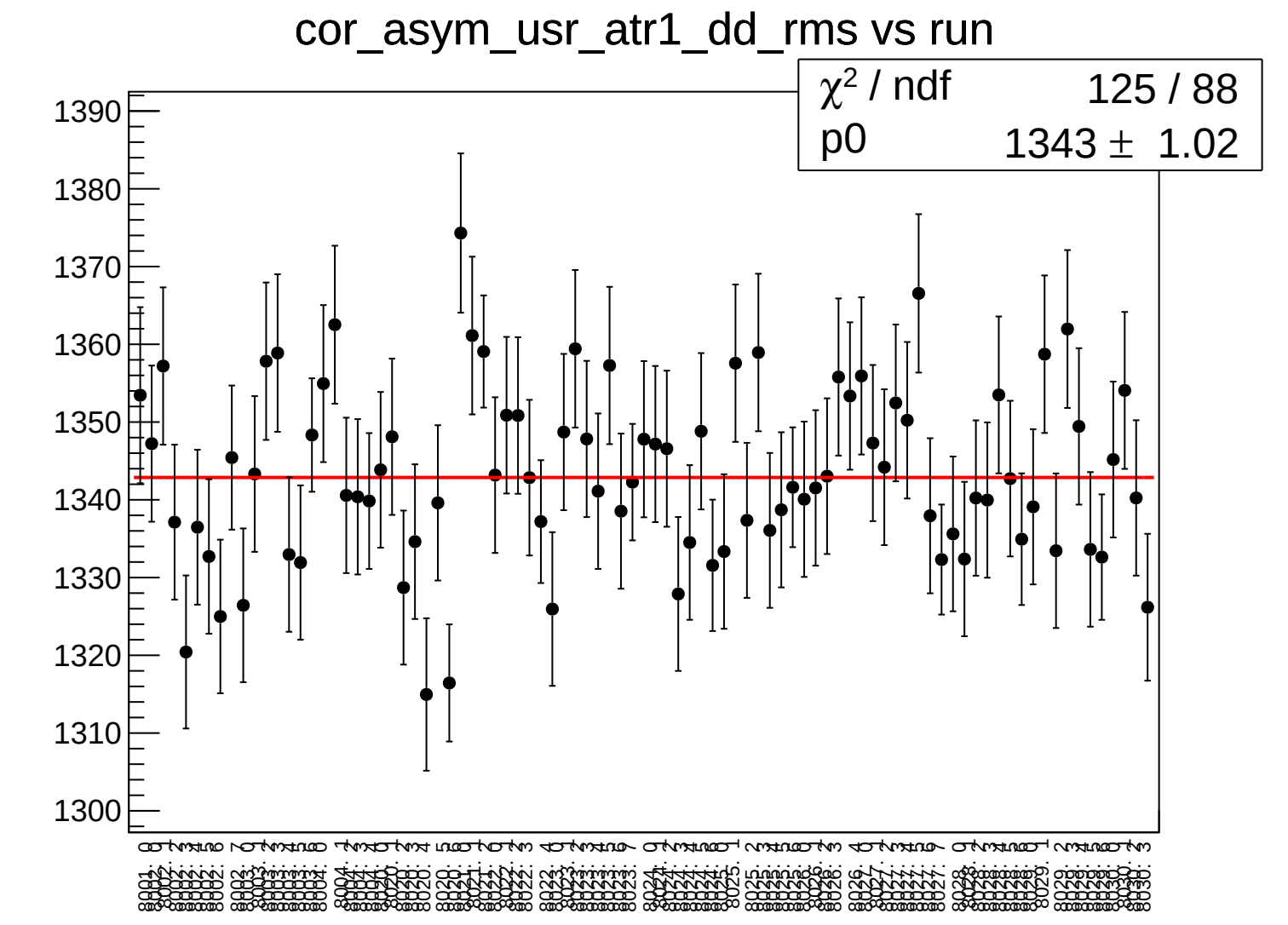

asym_usr_atr1_dd_reg_correction_mean vs run
χ² / ndf 81.15 / 88
p0 −505 ± 1003
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 393.1
Std Dev 0
2
1
0
−1
−2
−3

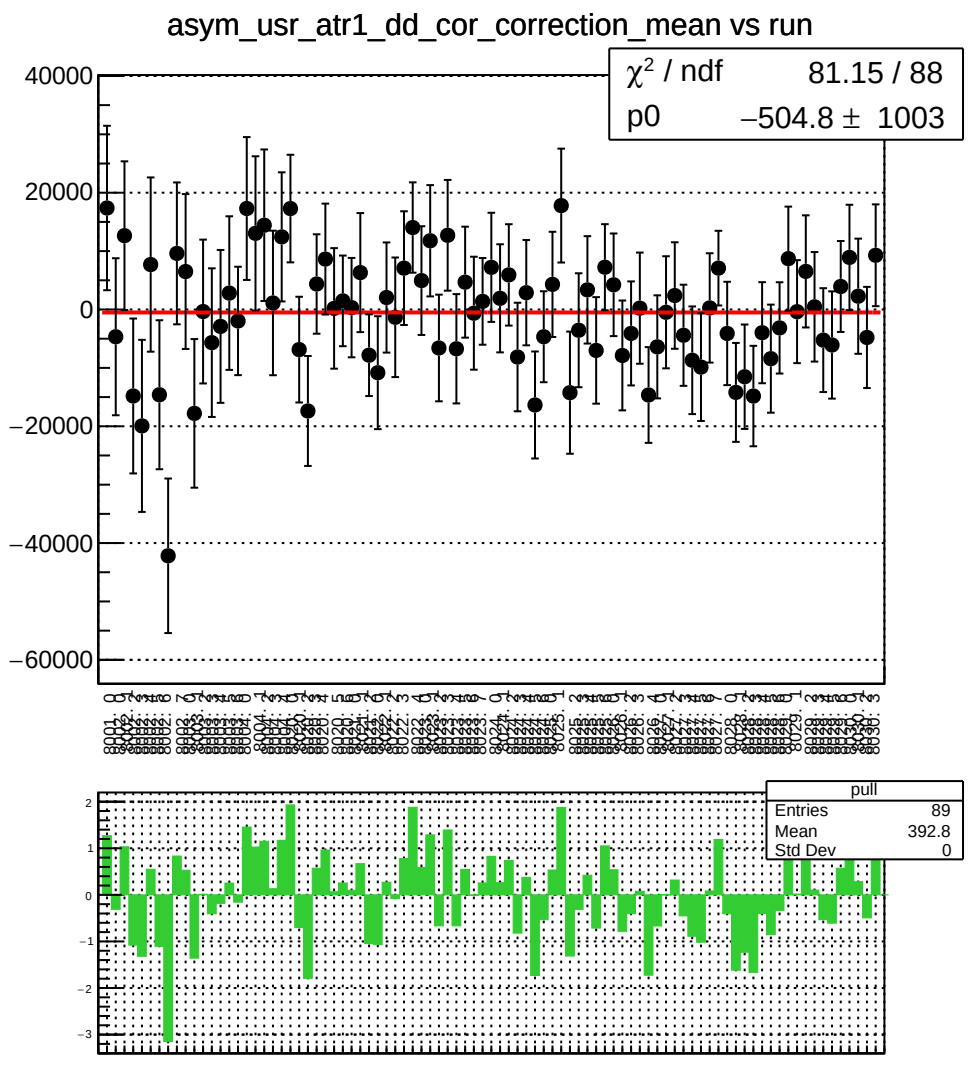

pull1D
Entries 89
Mean −0.004904
Std Dev 0.9549
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

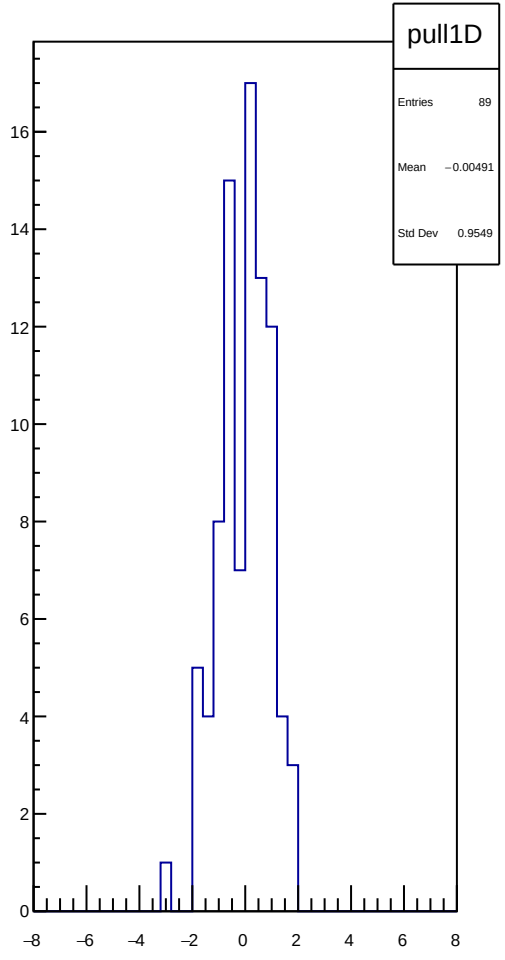

asym_usr_atr1_dd_reg_correction_rms vs run
χ² / ndf 3.237e+04 / 88
p0 925.7 ± 0.7095
1400
1300
1200
1100
1000
900
800

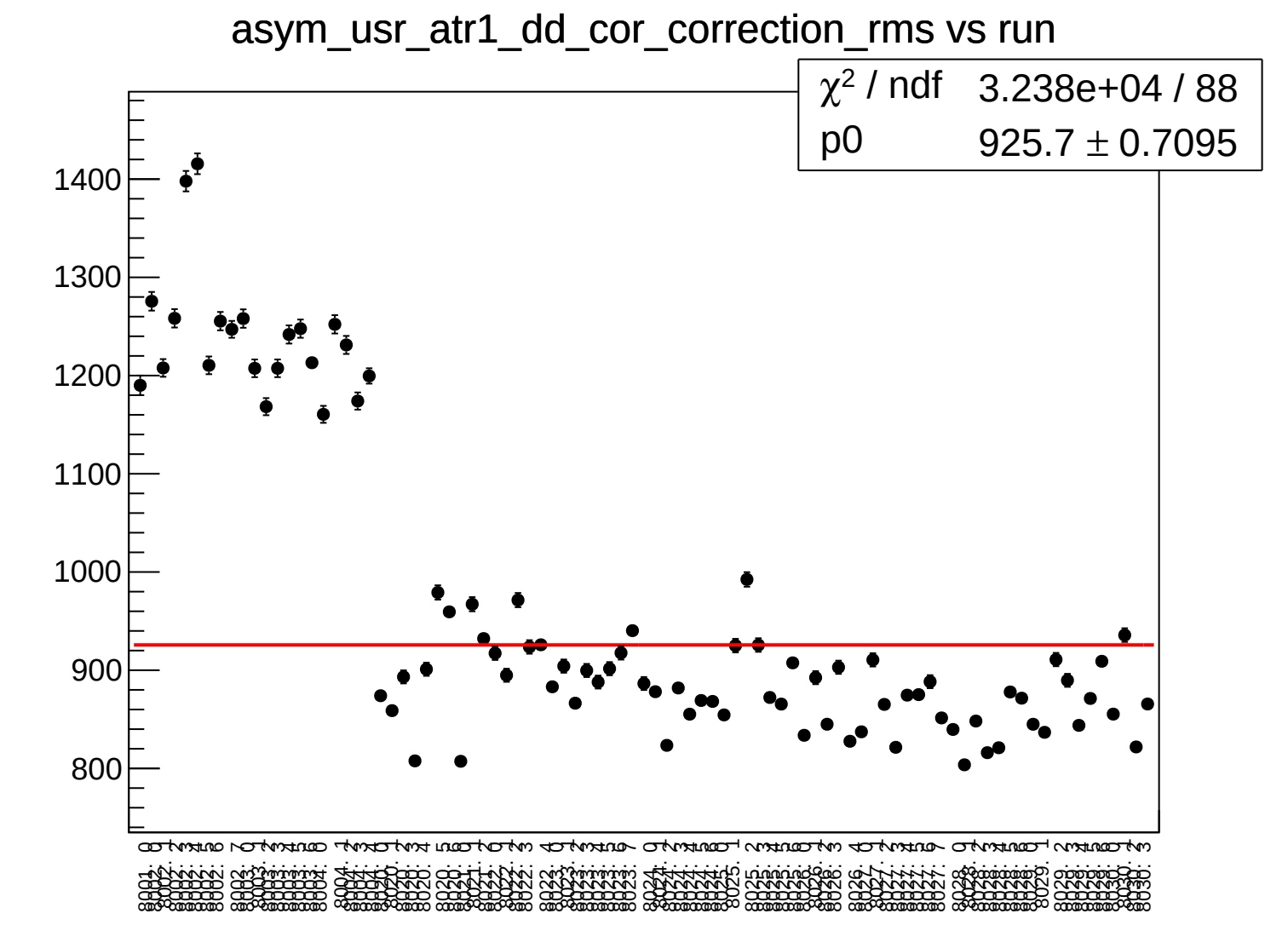

cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 84.89 / 88
p0 1605 ± 1442
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −34.21
Std Dev 17.25
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

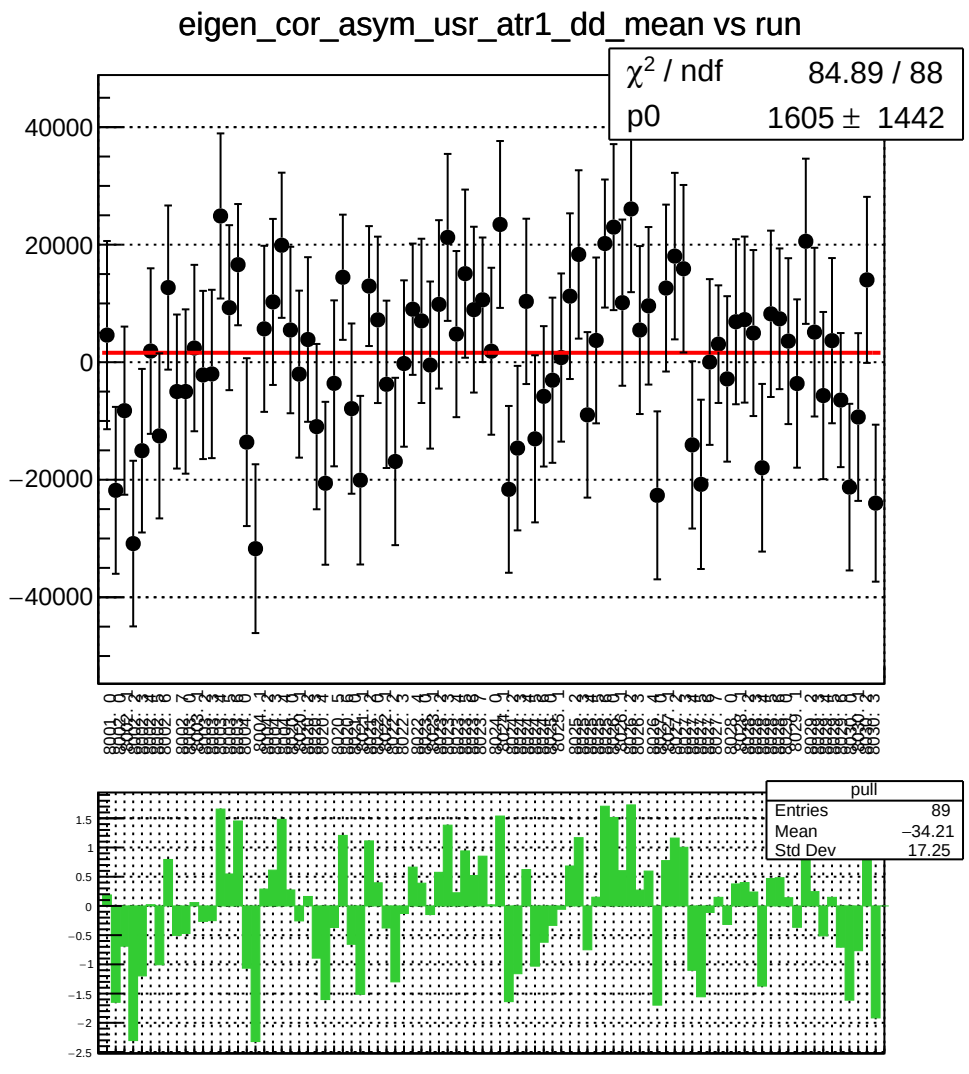

pull1D
Entries 89
Mean −0.02668
Std Dev 0.9763
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

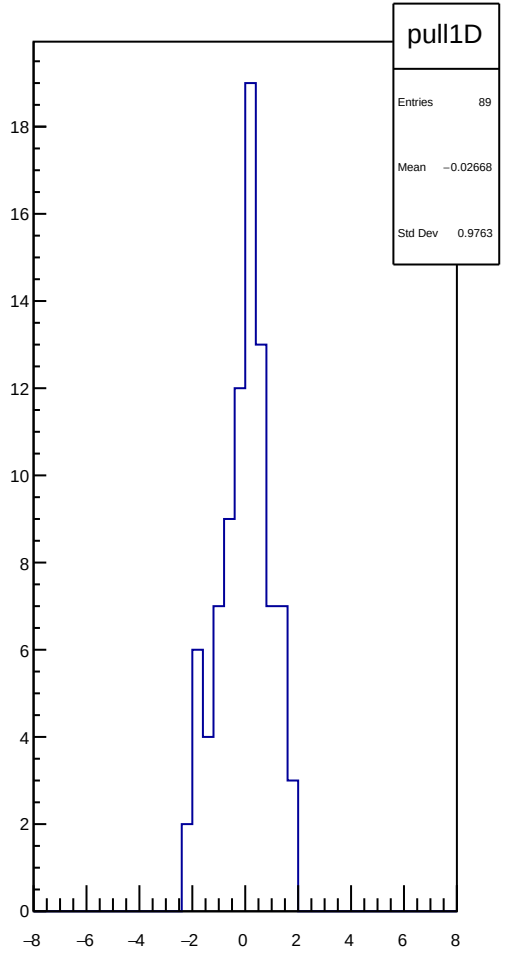

cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 125 / 88
p0 1343 ± 1.02
1390
1380
1370
1360
1350
1340
1330
1320
1310
1300

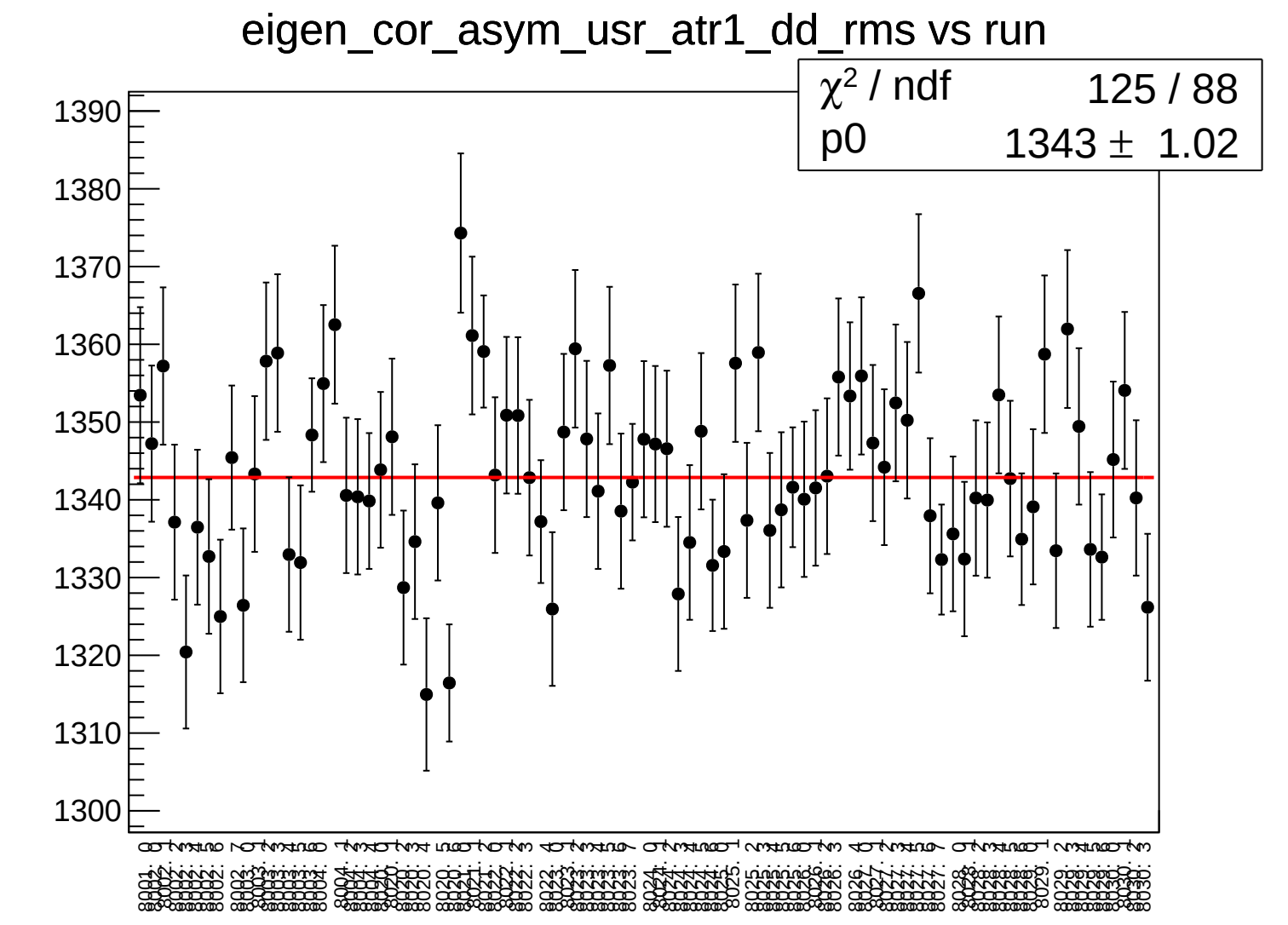

asym_usr_atr1_dd_cor_correction_mean vs run
χ² / ndf 81.15 / 88
p0 −504.8 ± 1003
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 392.8
Std Dev 0
2
1
0
−1
−2
−3

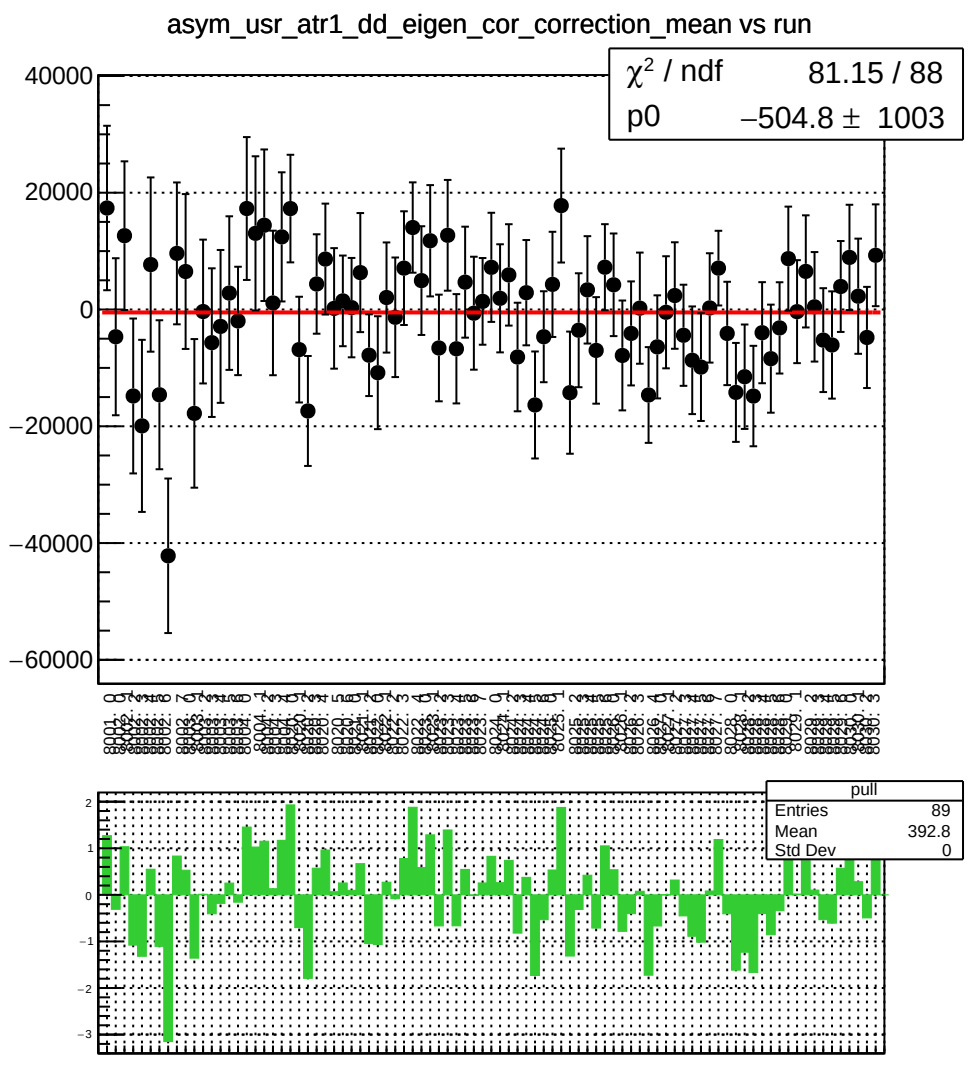

pull1D
Entries 89
Mean −0.00491
Std Dev 0.9549
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

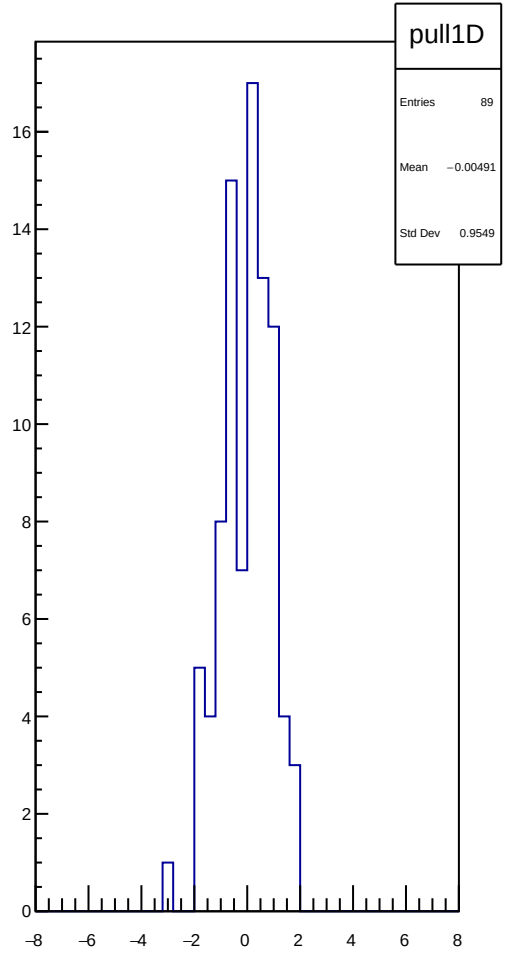

asym_usr_atr1_dd_cor_correction_rms vs run
χ² / ndf 3.238e+04 / 88
p0 925.7 ± 0.7095
1400
1300
1200
1100
1000
900
800

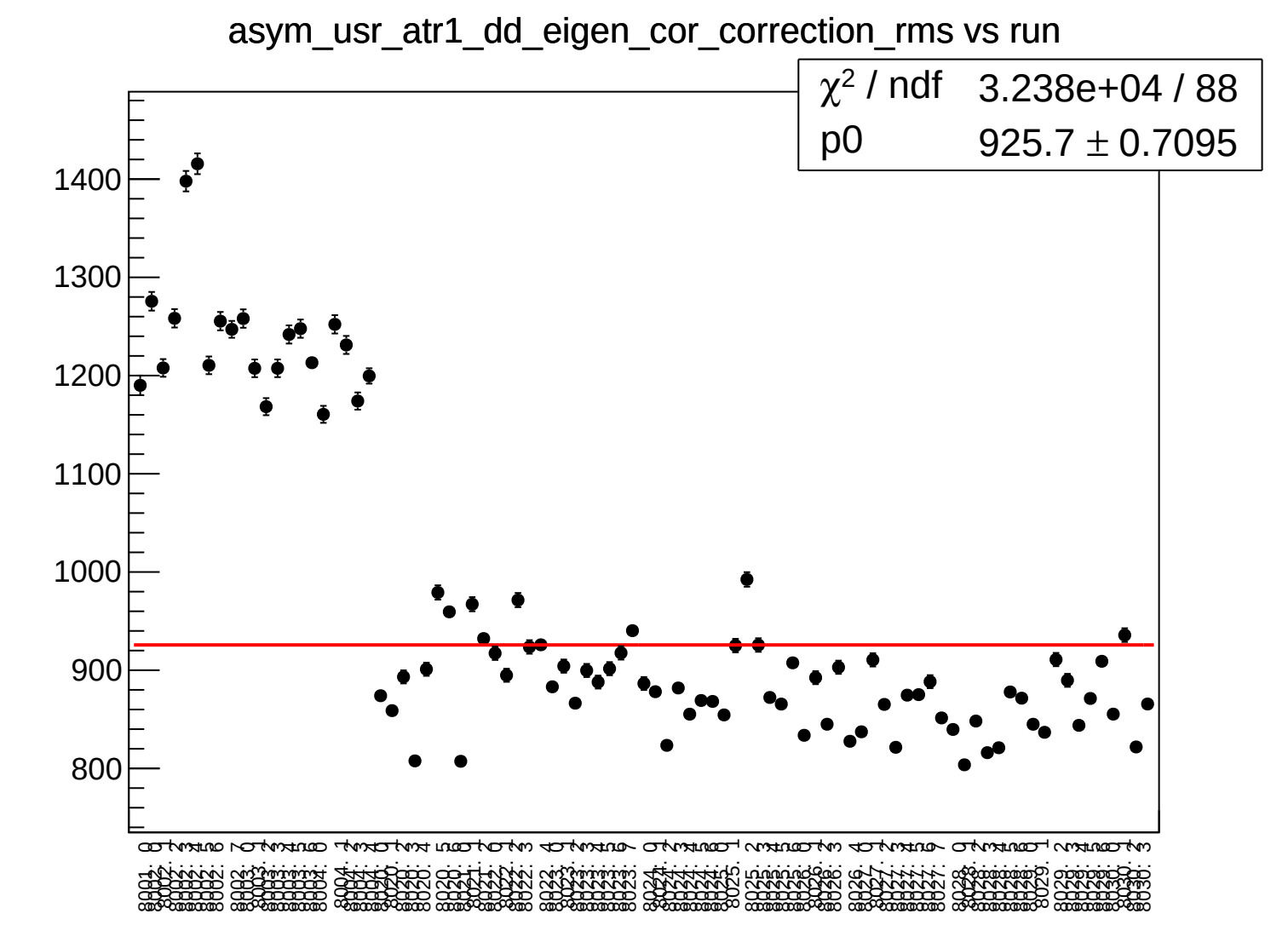

eigen_cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 84.89 / 88
p0 1605 ± 1442
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −34.21
Std Dev 17.25
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

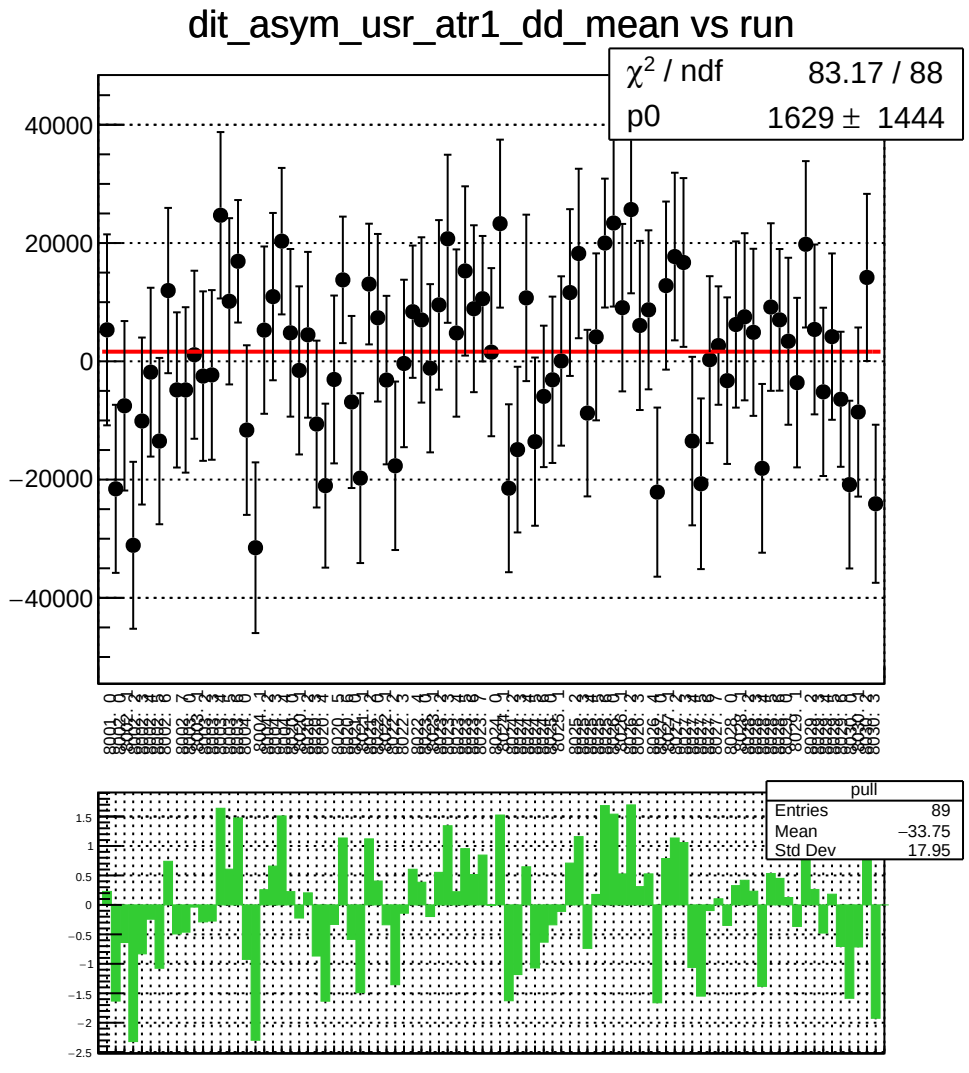

pull1D
Entries 89
Mean −0.02668
Std Dev 0.9763
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

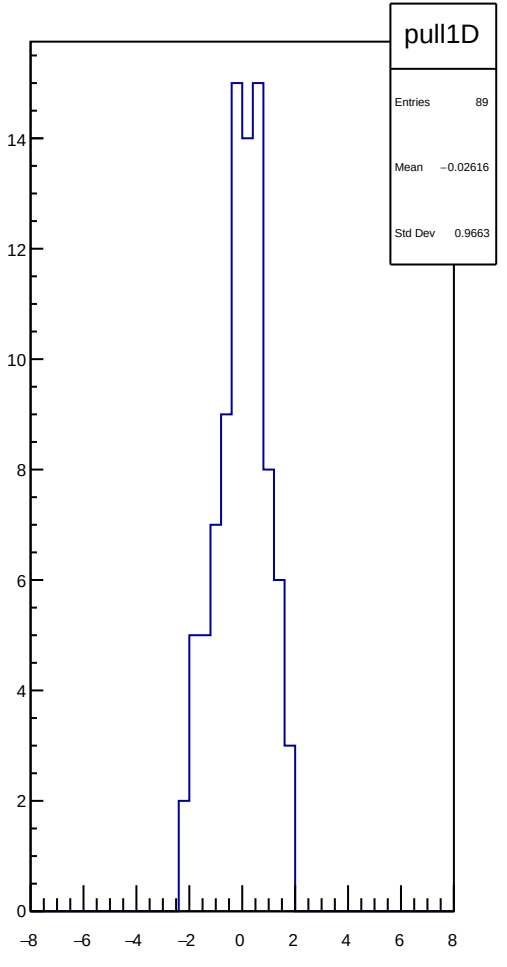

eigen_cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 125 / 88
p0 1343 ± 1.02
1390
1380
1370
1360
1350
1340
1330
1320
1310
1300

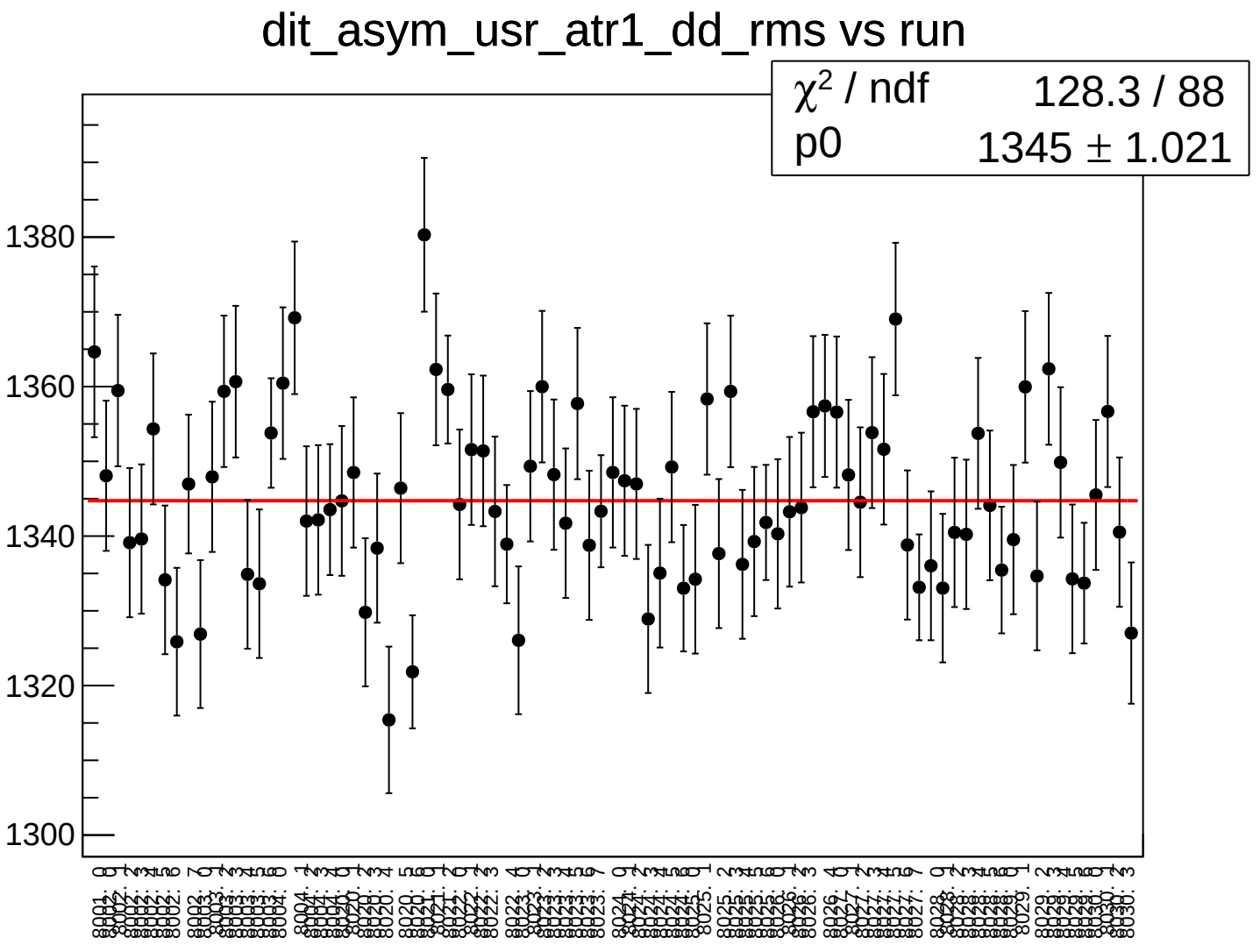

asym_usr_atr1_dd_eigen_cor_correction_mean vs run
χ² / ndf 81.15 / 88
p0 −504.8 ± 1003
pull
Entries 89
Mean 392.8
Std Dev 0

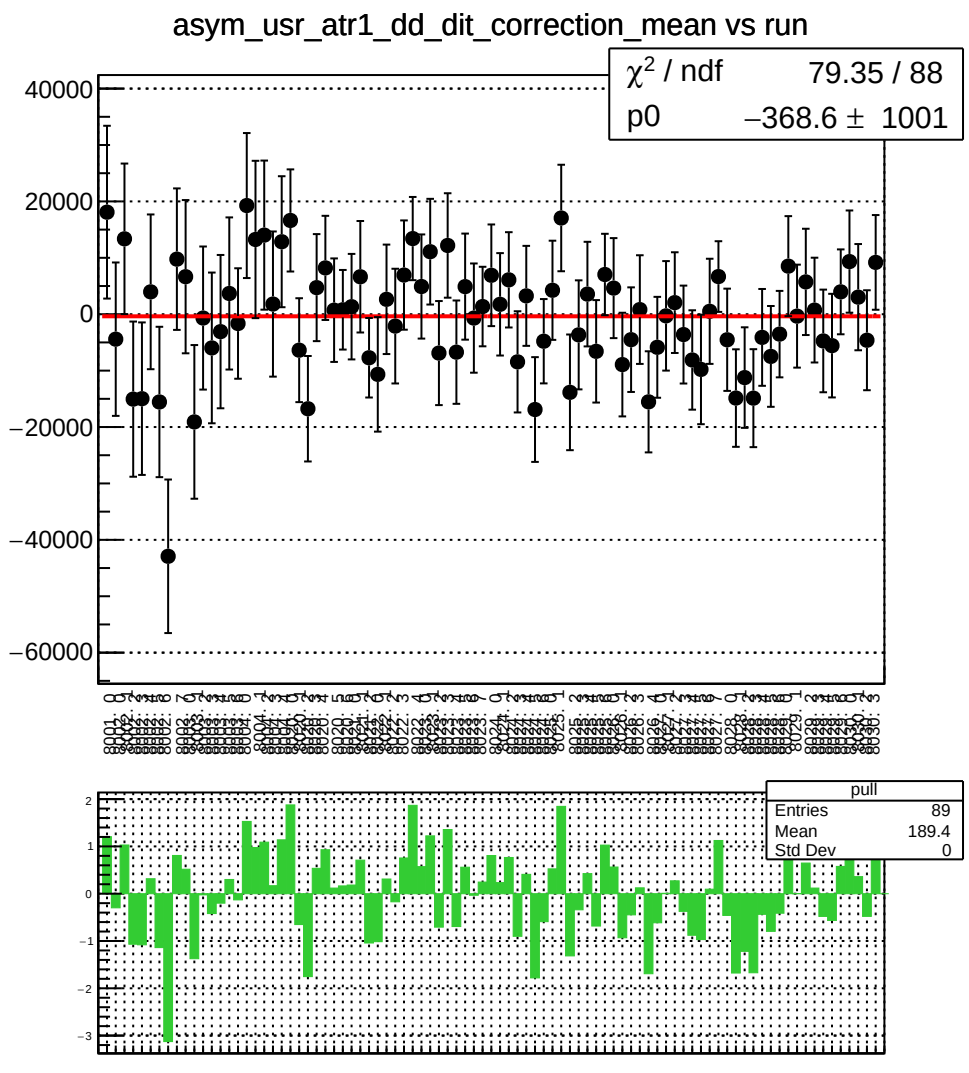

pull1D
Entries 89
Mean −0.00491
Std Dev 0.9549

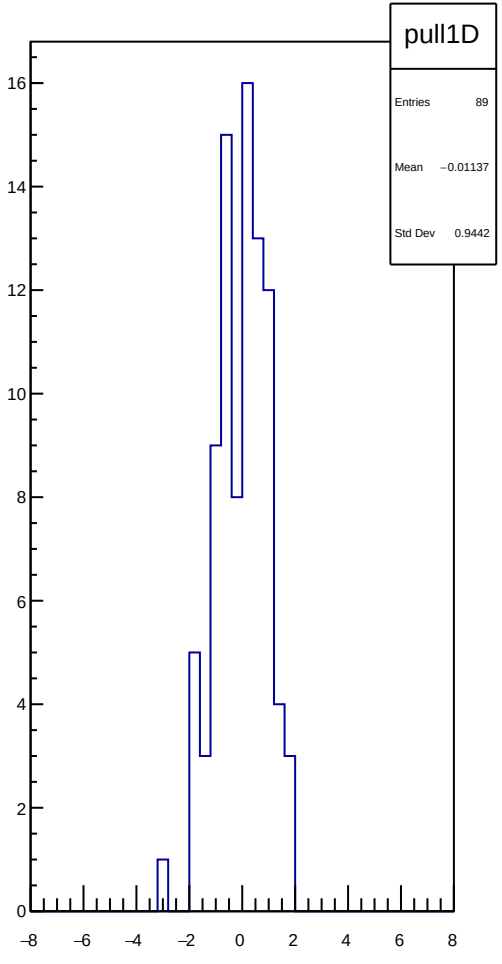

asym_usr_atr1_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.238e+04 / 88
p0 925.7 ± 0.7095
1400
1300
1200
1100
1000
900
800

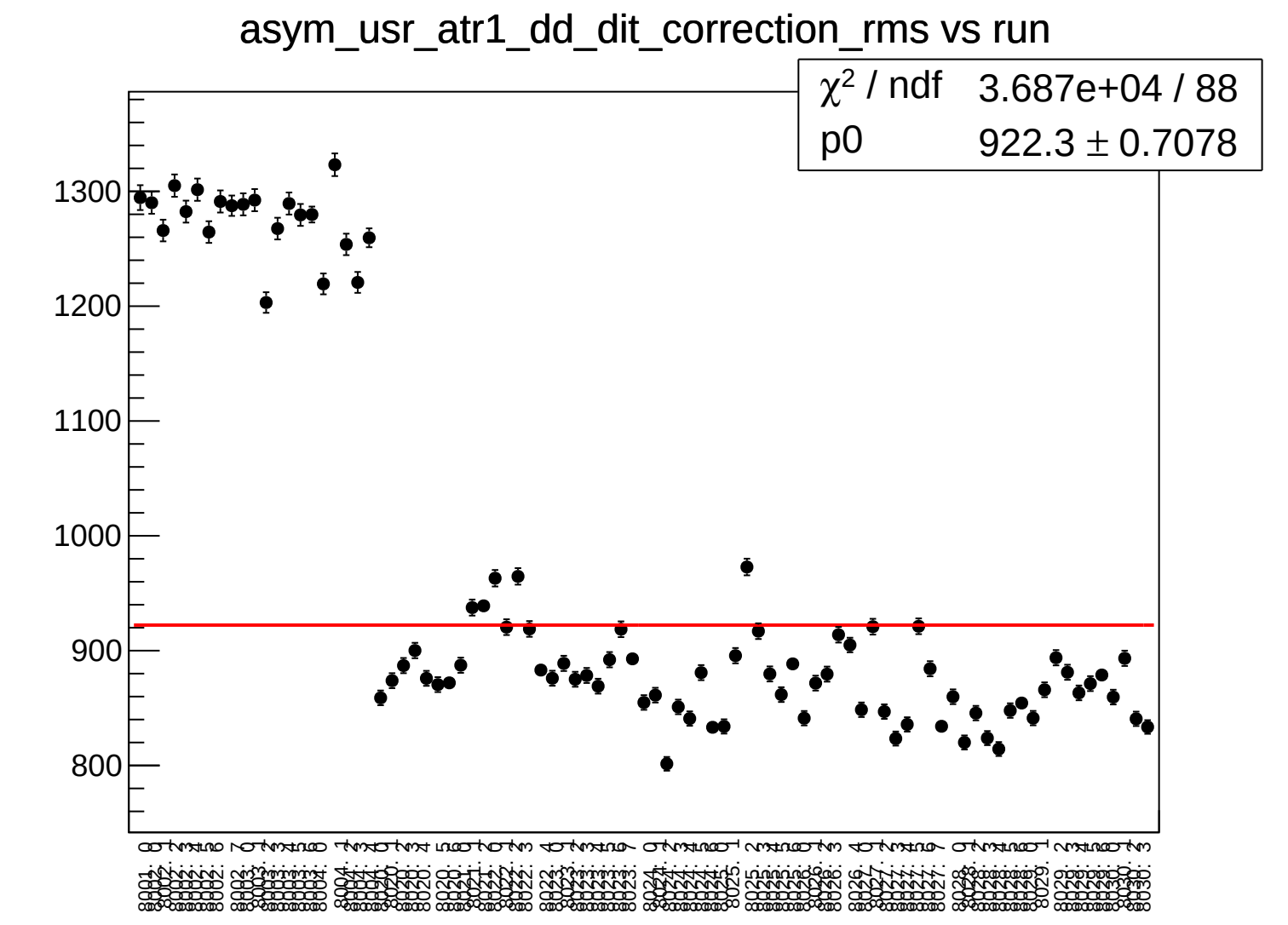

dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 83.17 / 88
p0 1629 ± 1444
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −33.75
Std Dev 17.95
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

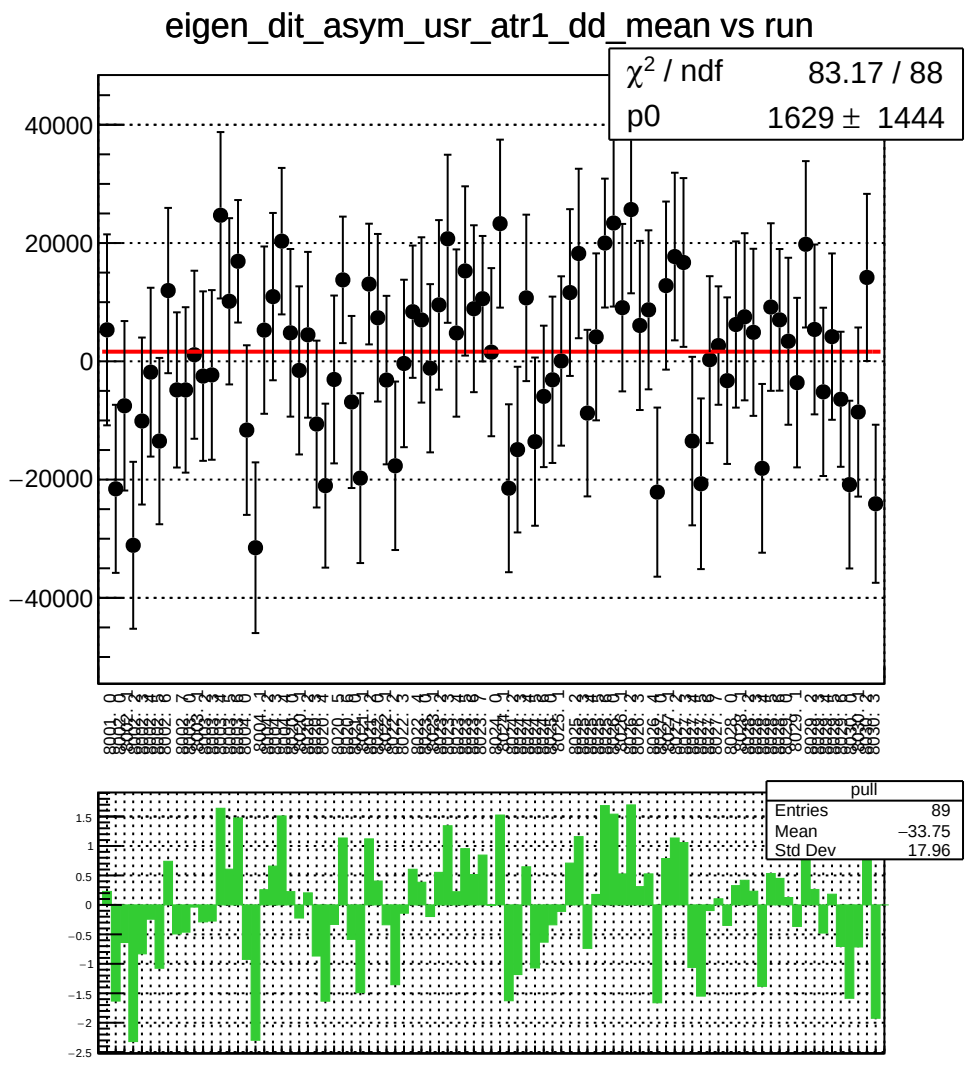

pull1D
Entries 89
Mean −0.02616
Std Dev 0.9663
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

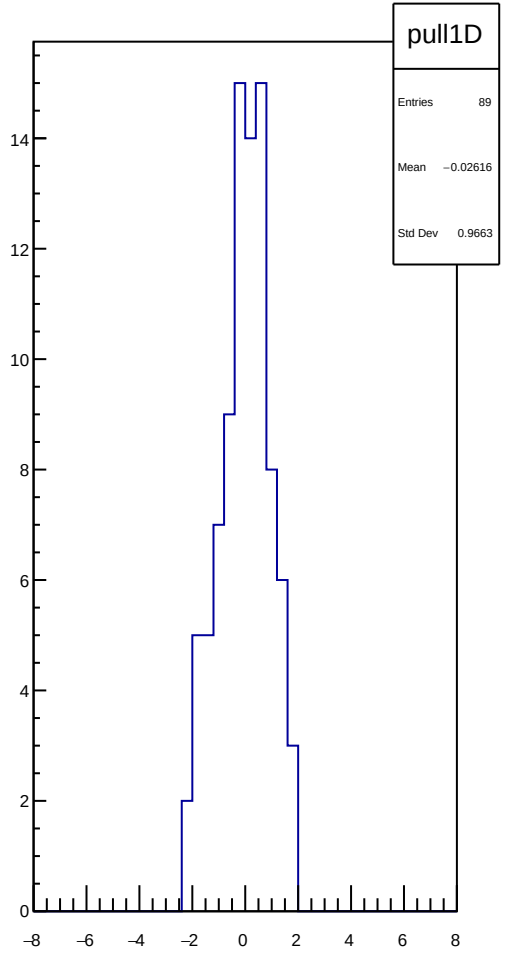

dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 128.3 / 88
p0 1345 ± 1.021
1380
1360
1340
1320
1300

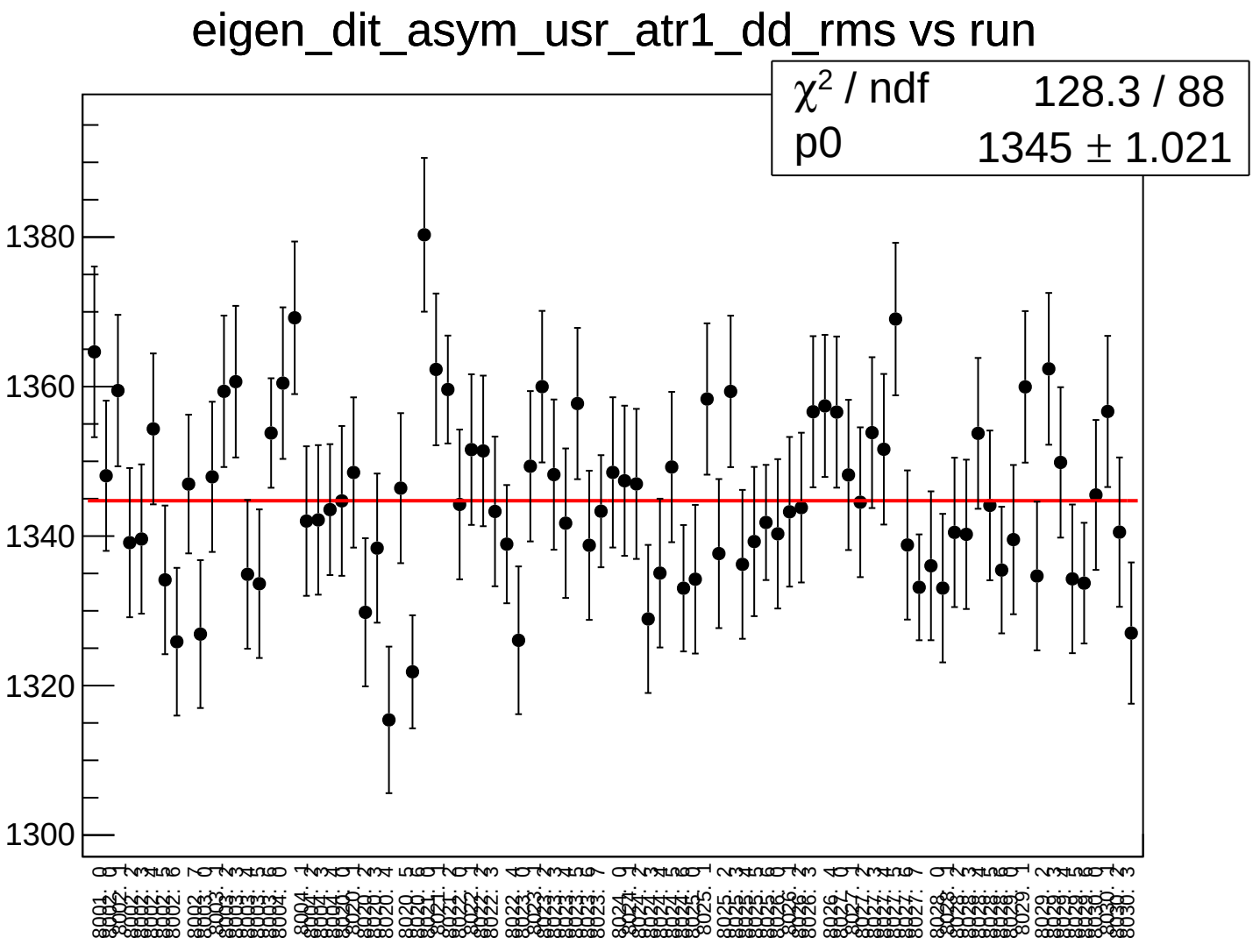

asym_usr_atr1_dd_dit_correction_mean vs run
χ² / ndf 79.35 / 88
p0 −368.6 ± 1001
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 189.4
Std Dev 0
2
1
0
−1
−2
−3

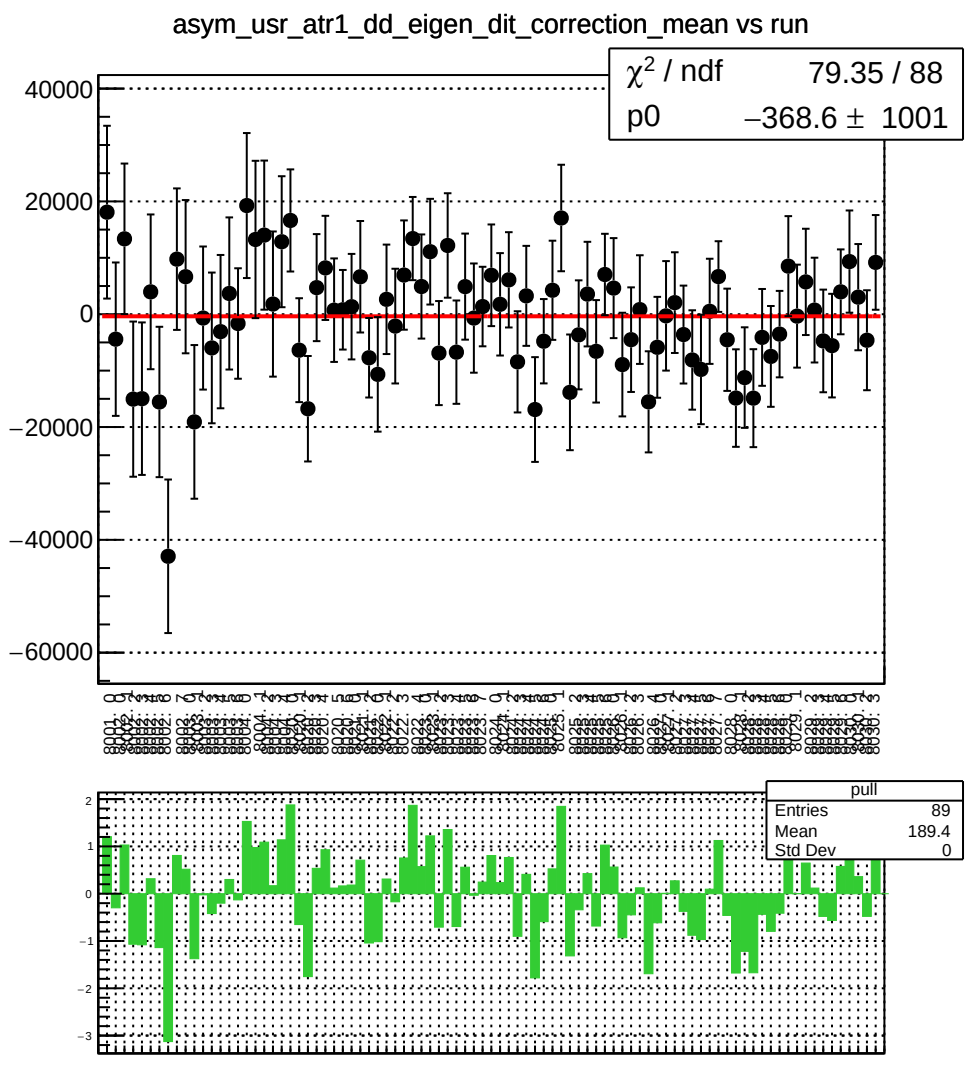

pull1D
Entries 89
Mean −0.01137
Std Dev 0.9442
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

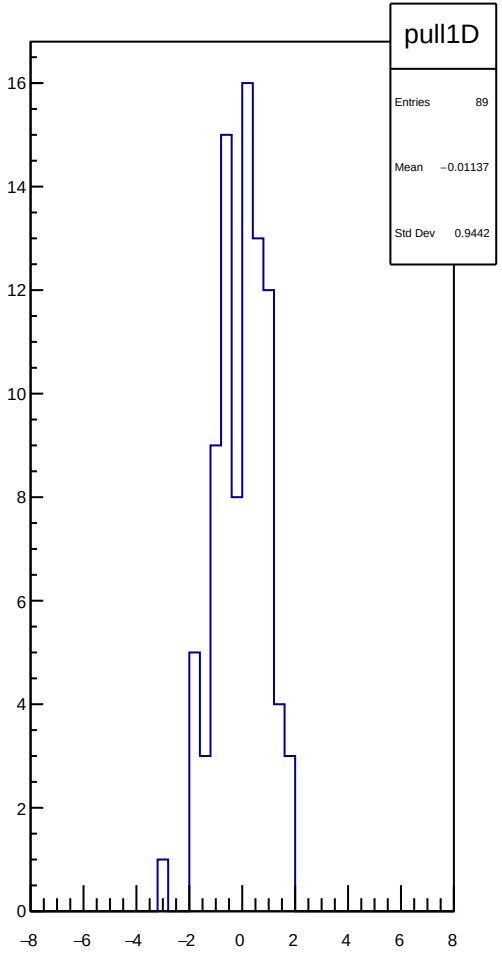

asym_usr_atr1_dd_dit_correction_rms vs run
χ² / ndf 3.687e+04 / 88
p0 922.3 ± 0.7078
1300
1200
1100
1000
900
800

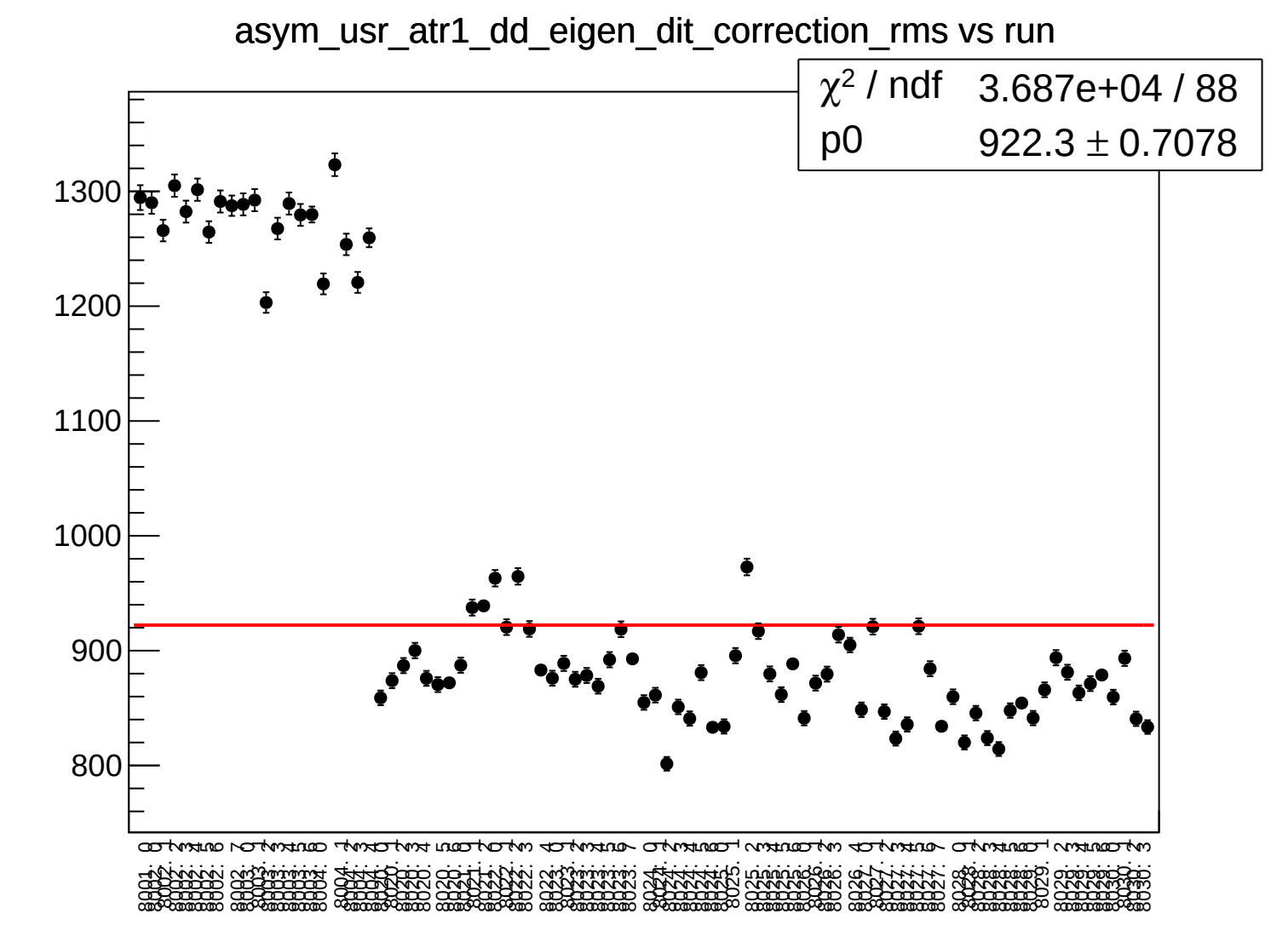

eigen_dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 83.17 / 88
p0 1629 ± 1444
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −33.75
Std Dev 17.96
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

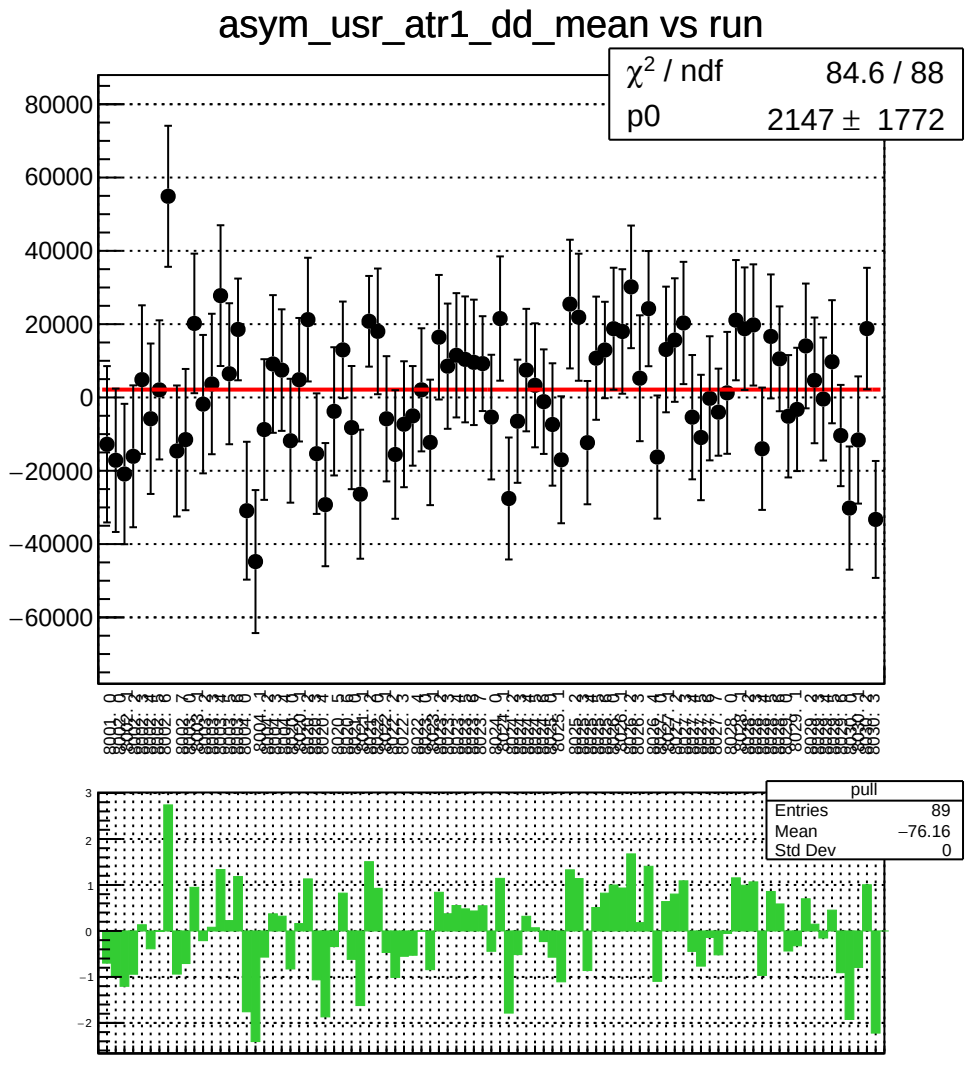

pull1D
Entries 89
Mean −0.02616
Std Dev 0.9663
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

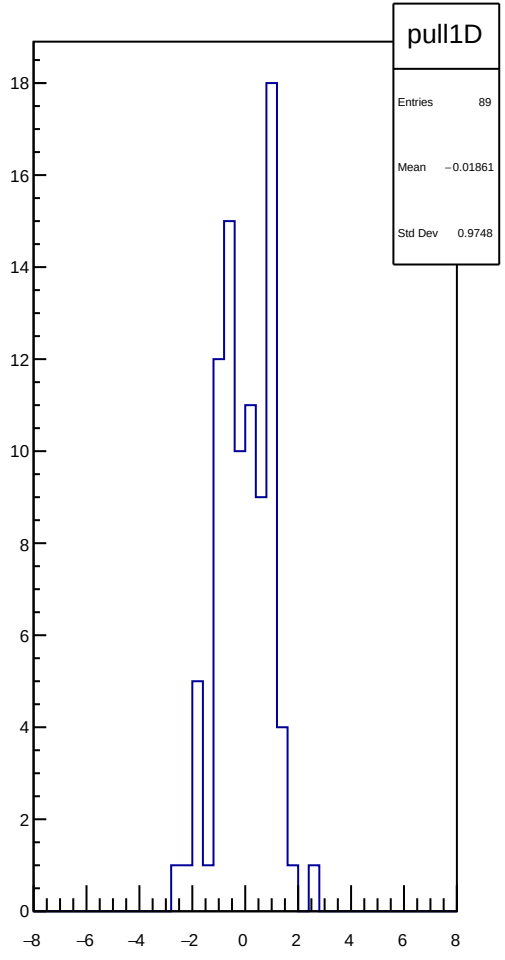

eigen_dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 128.3 / 88
p0 1345 ± 1.021
1380
1360
1340
1320
1300

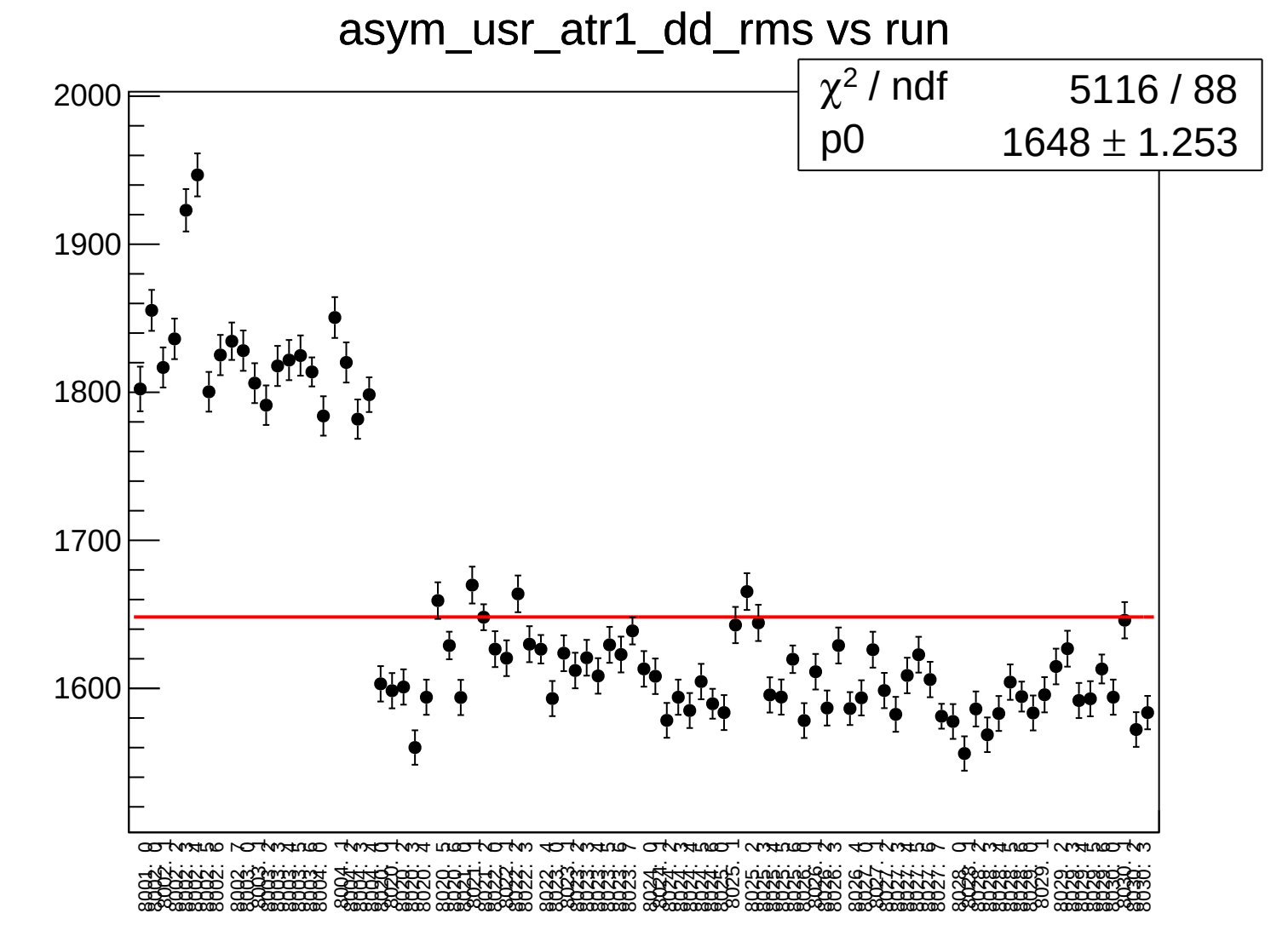

asym_usr_atr1_dd_eigen_dit_correction_mean vs run
χ² / ndf 79.35 / 88
p0 −368.6 ± 1001
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 189.4
Std Dev 0
2
1
0
−1
−2
−3

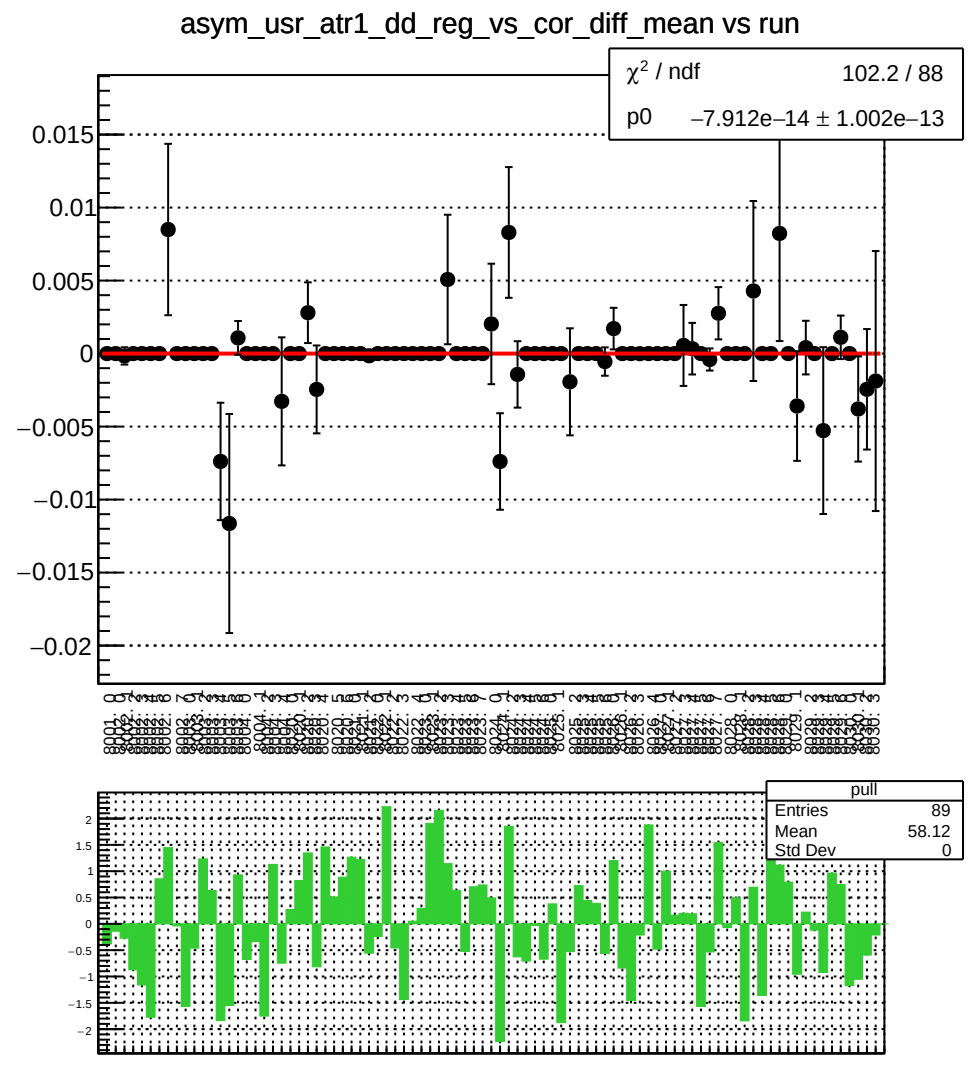

pull1D
Entries 89
Mean −0.01137
Std Dev 0.9442
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

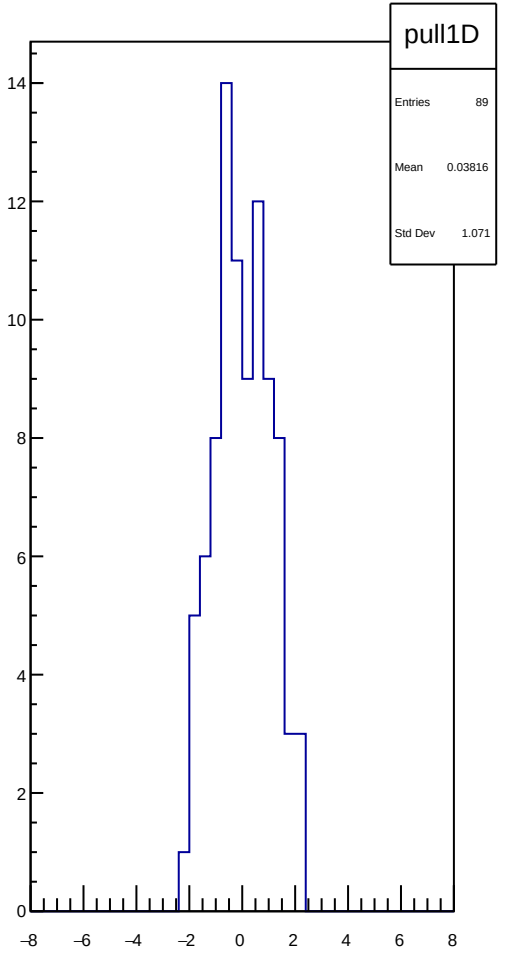

asym_usr_atr1_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.687e+04 / 88
p0 922.3 ± 0.7078
1300
1200
1100
1000
900
800

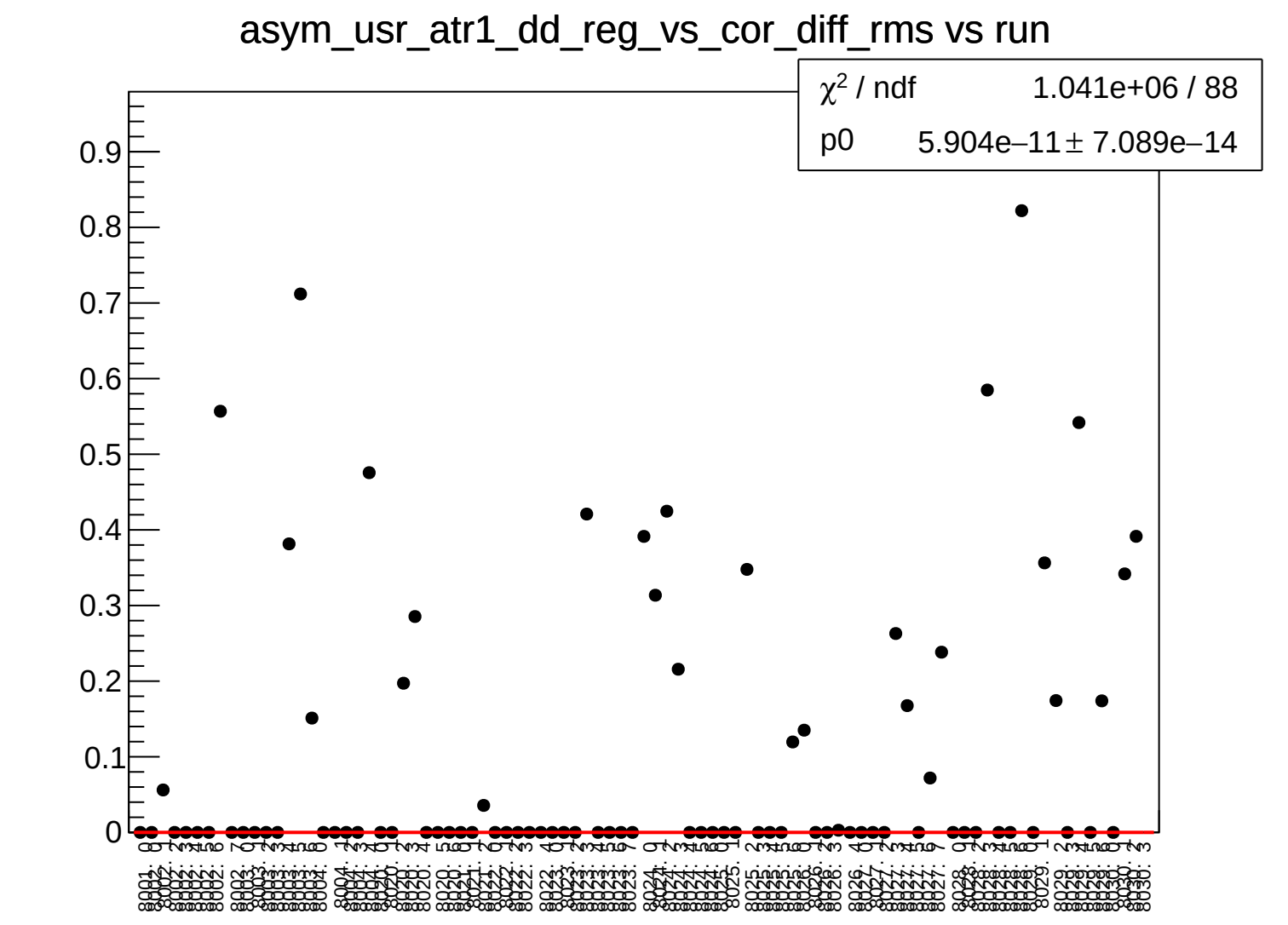

asym_usr_atr1_dd_mean vs run
χ² / ndf 84.6 / 88
p0 2147 ± 1772
pull
Entries 89
Mean −76.16
Std Dev 0

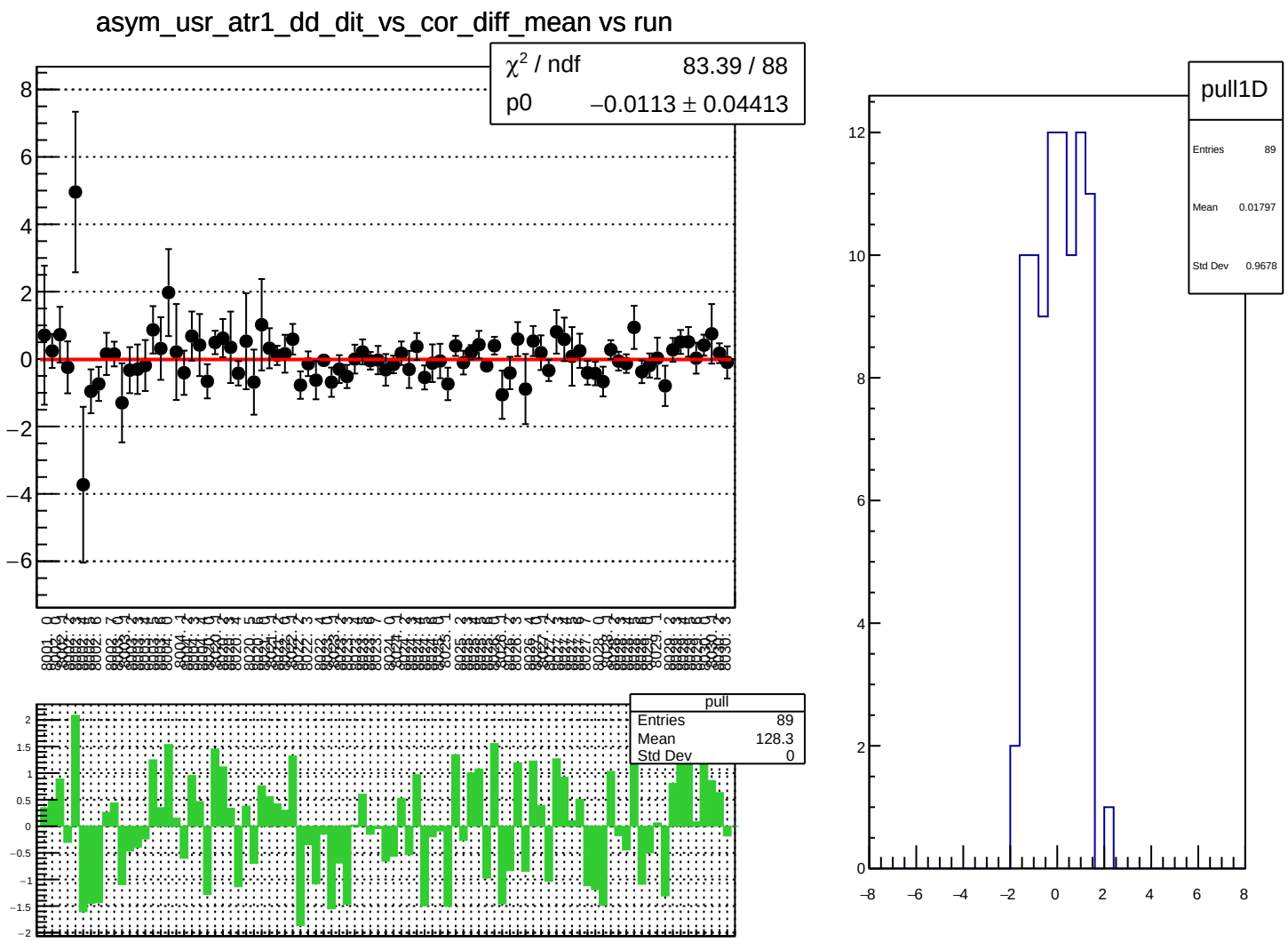

pull1D
Entries 89
Mean −0.01861
Std Dev 0.9748

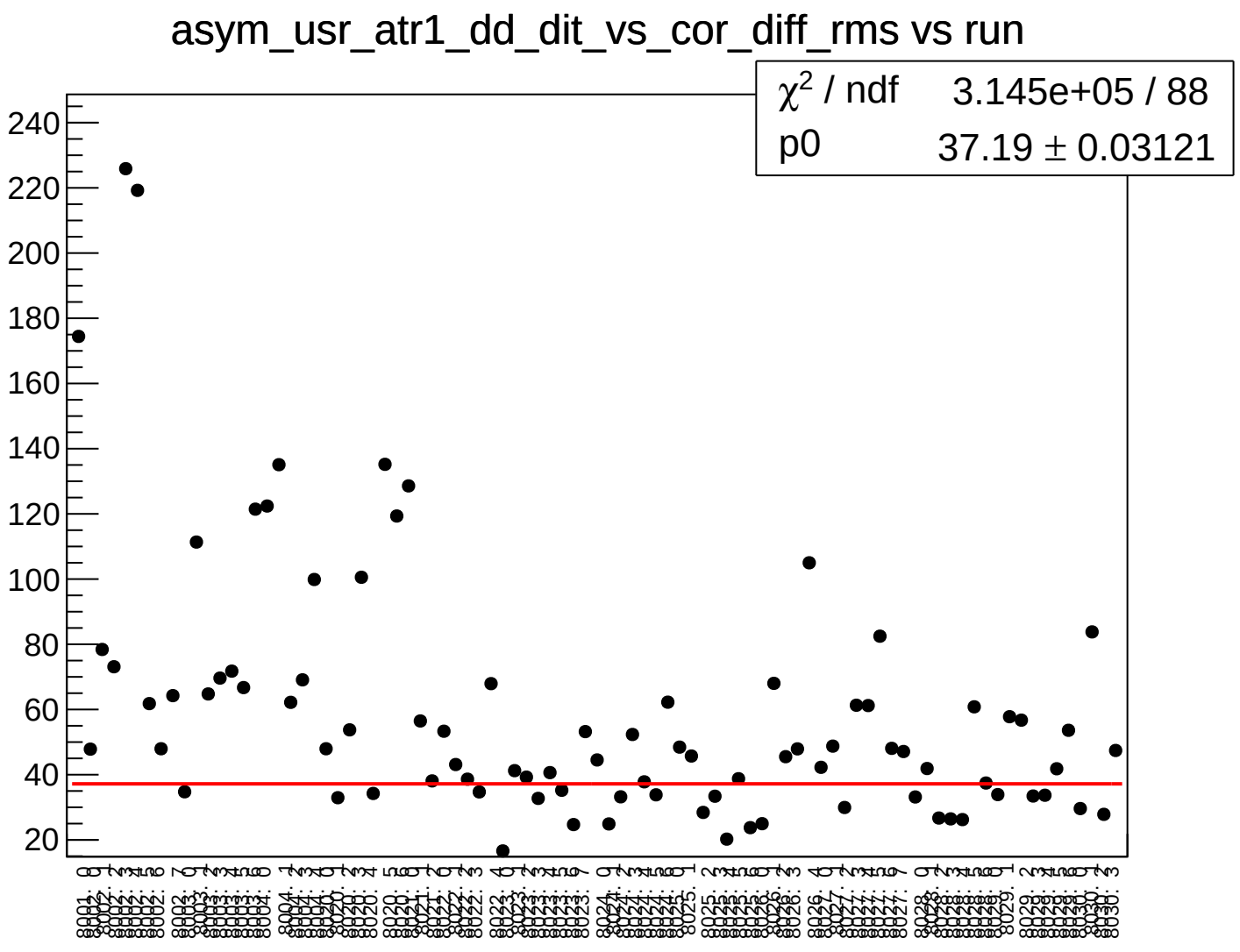

asym_usr_atr1_dd_rms vs run
χ² / ndf 5116 / 88
p0 1648 ± 1.253
2000
1900
1800
1700
1600

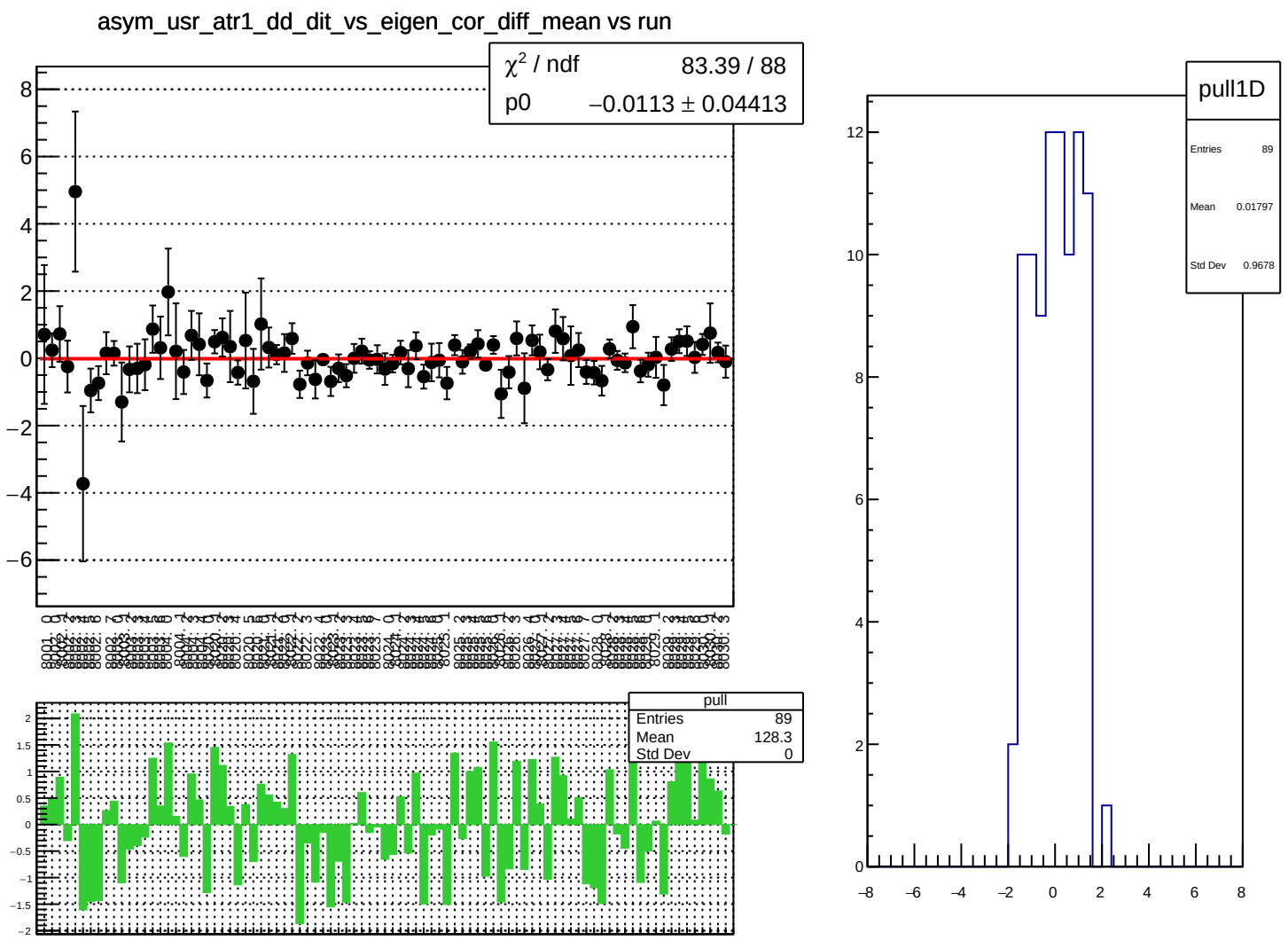

asym_usr_atr1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 102.2 / 88
p0 −7.912e−14 ± 1.002e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 89
Mean 58.12
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

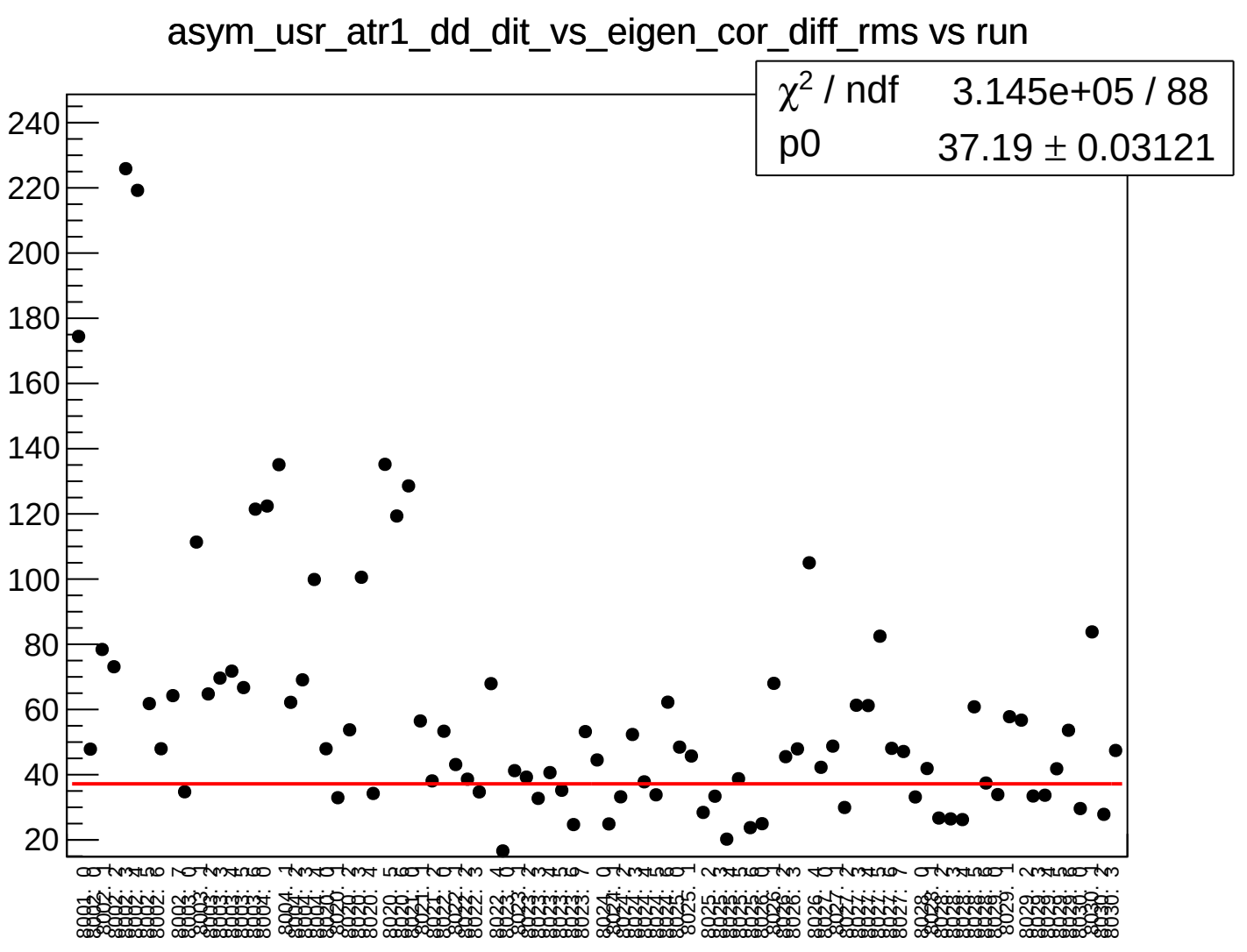

pull1D
Entries 89
Mean 0.03816
Std Dev 1.071
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

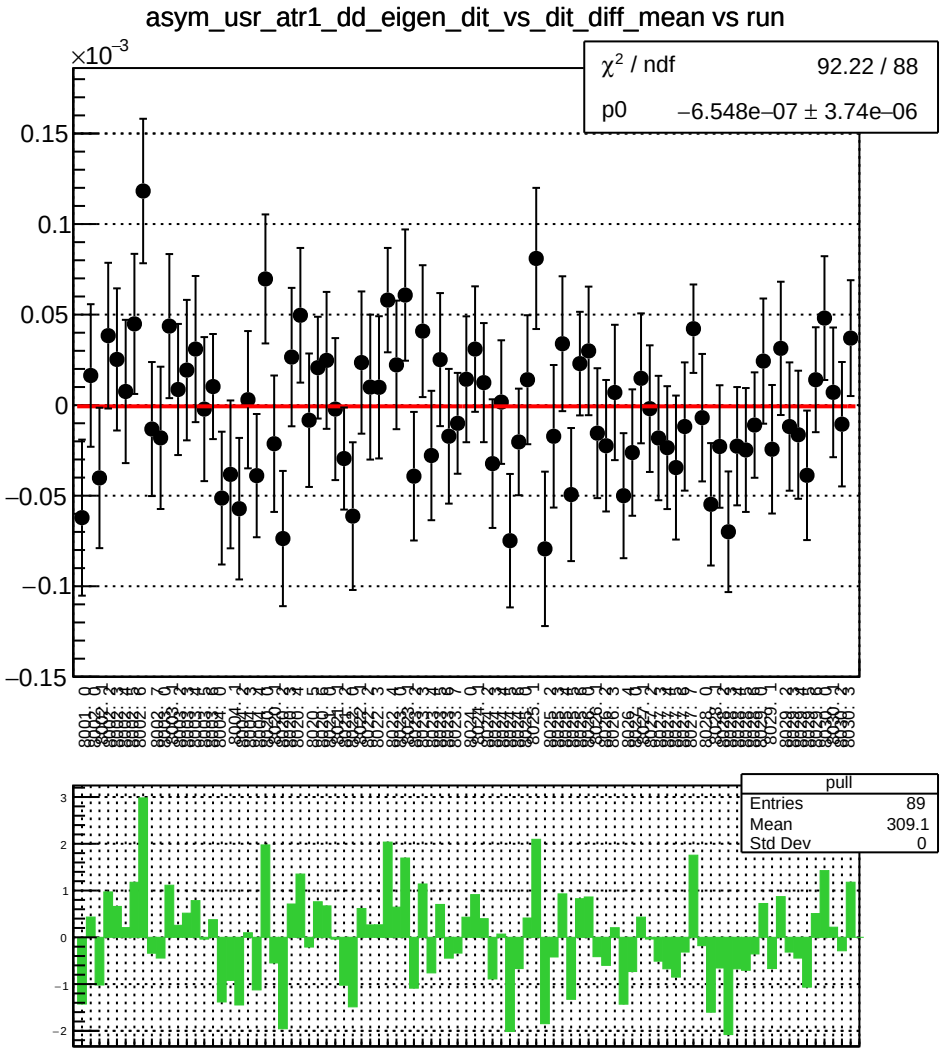

asym_usr_atr1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.041e+06 / 88
p0 5.904e−11 ± 7.089e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

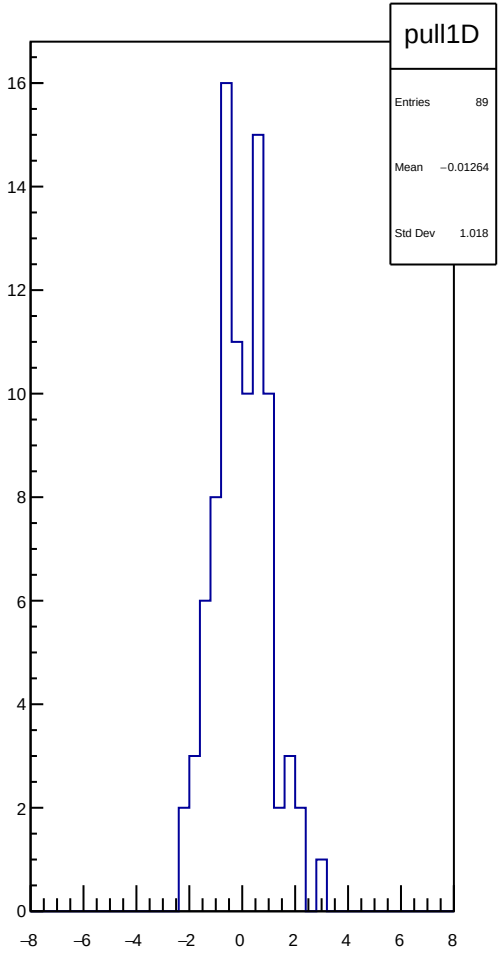

asym_usr_atr1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 83.39 / 88
p0 −0.0113 ± 0.04413
pull
Entries 89
Mean 128.3
Std Dev 0
pull1D
Entries 89
Mean 0.01797
Std Dev 0.9678

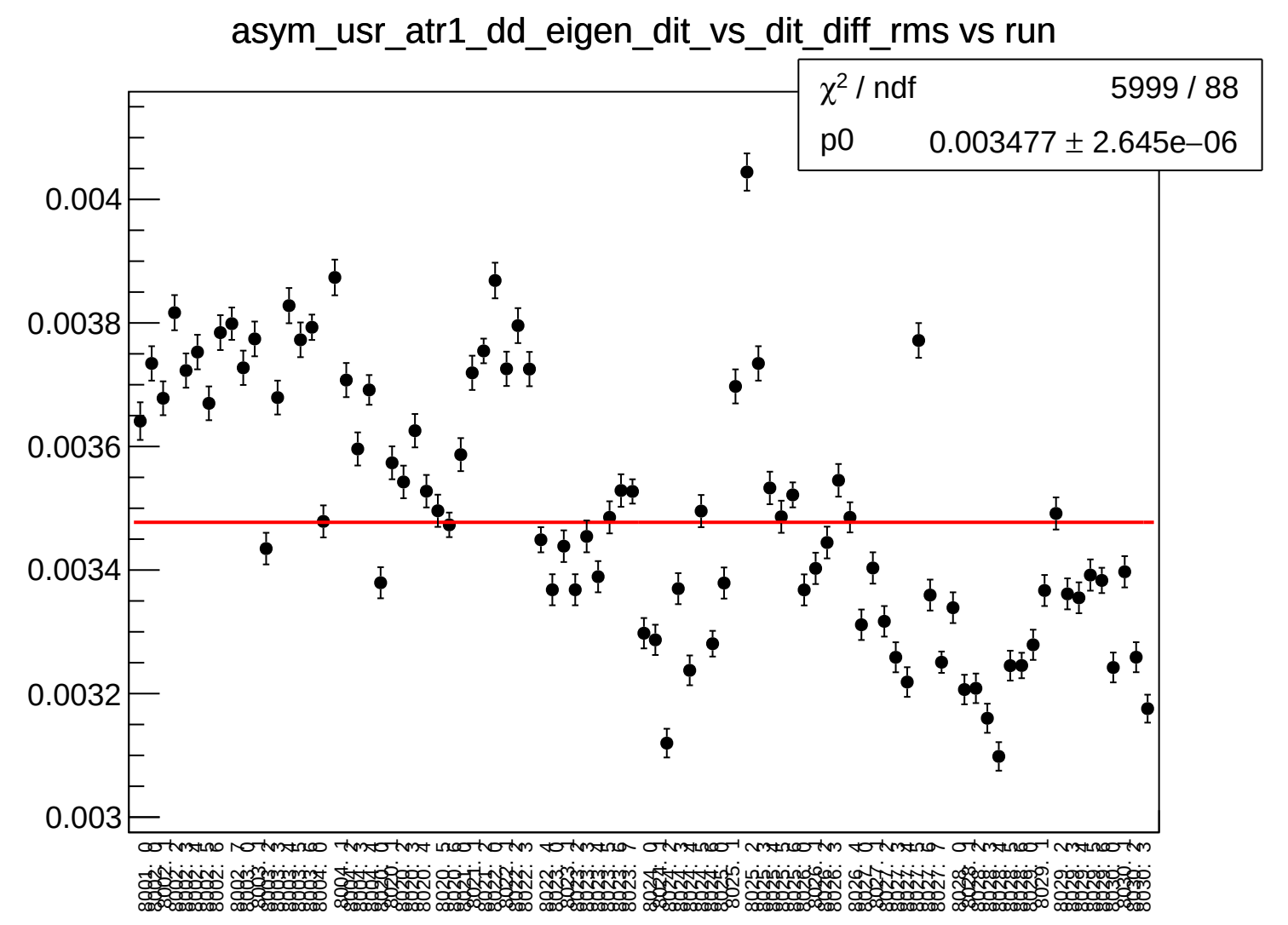

asym_usr_atr1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.145e+05 / 88
p0 37.19 ± 0.03121
240
220
200
180
160
140
120
100
80
60
40
20

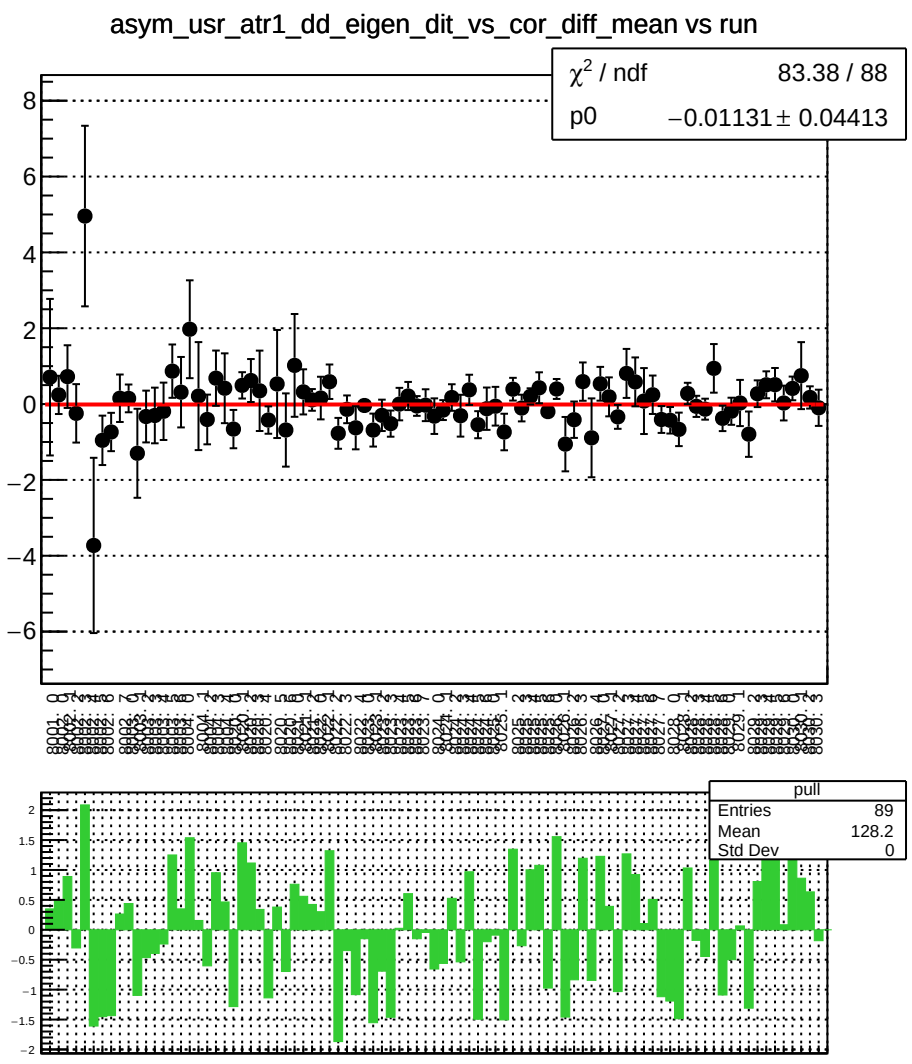

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.39 / 88
p0 −0.0113 ± 0.04413
pull
Entries 89
Mean 128.3
Std Dev 0
pull1D
Entries 89
Mean 0.01797
Std Dev 0.9678

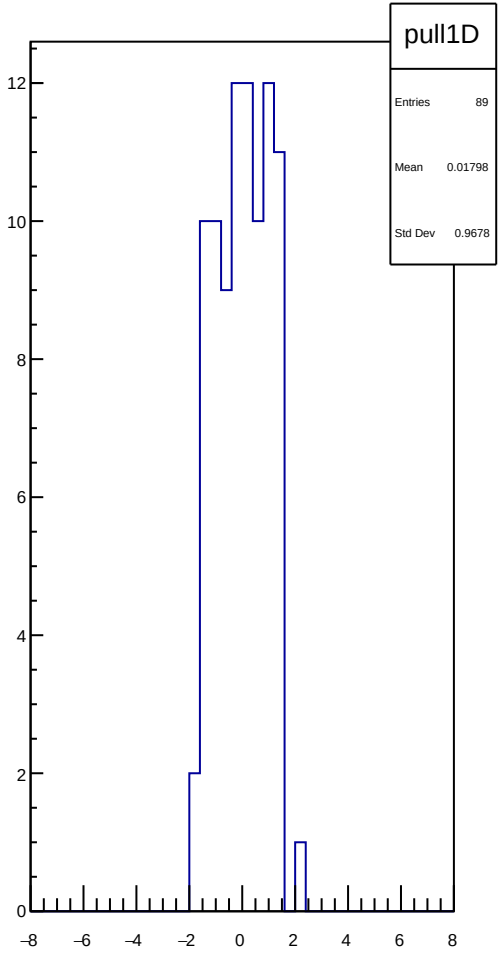

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.145e+05 / 88
p0 37.19 ± 0.03121
240
220
200
180
160
140
120
100
80
60
40
20

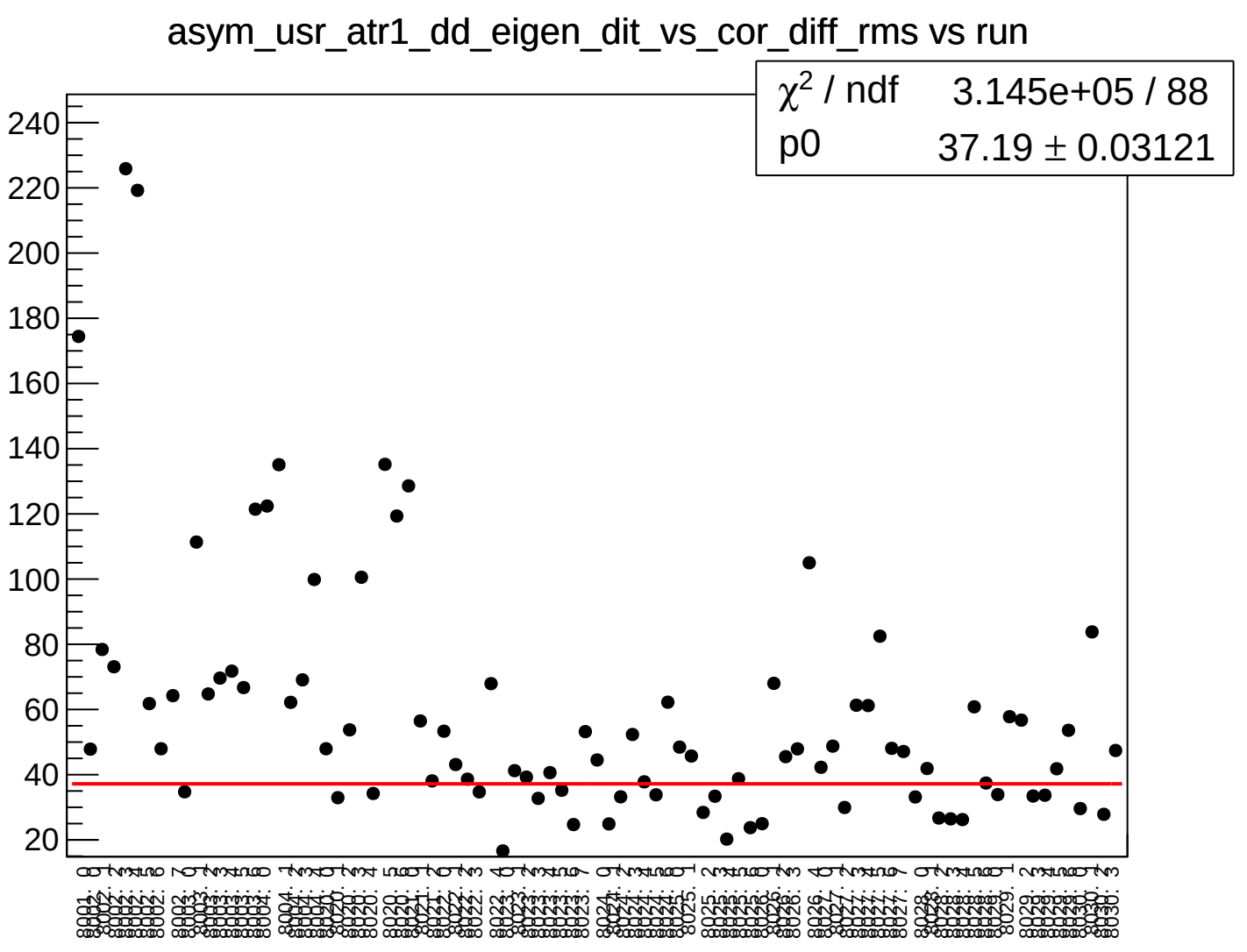

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.22 / 88
p0 −6.548e−07 ± 3.74e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 89
Mean 309.1
Std Dev 0
3
2
1
0
−1
−2

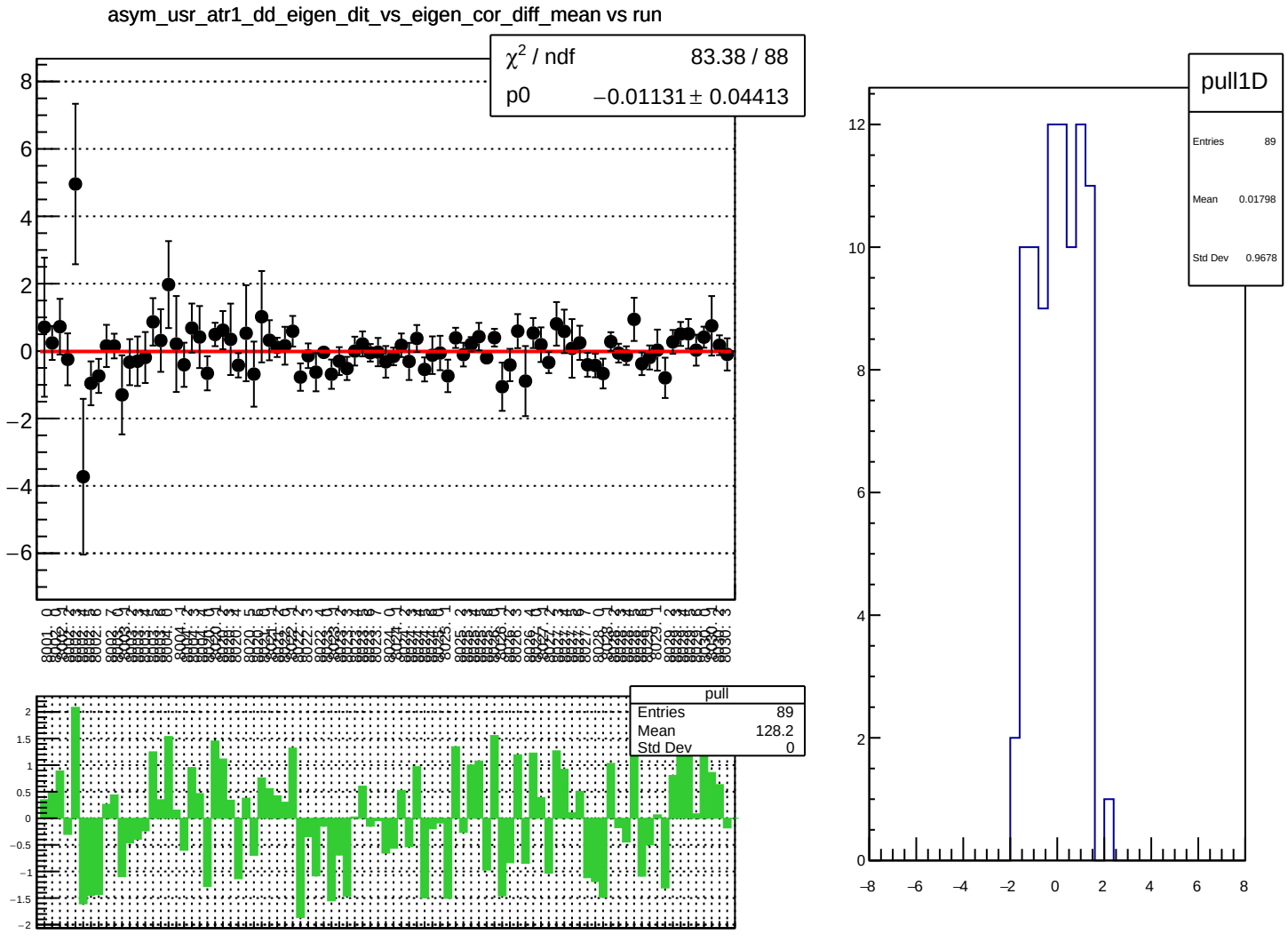

pull1D
Entries 89
Mean −0.01264
Std Dev 1.018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

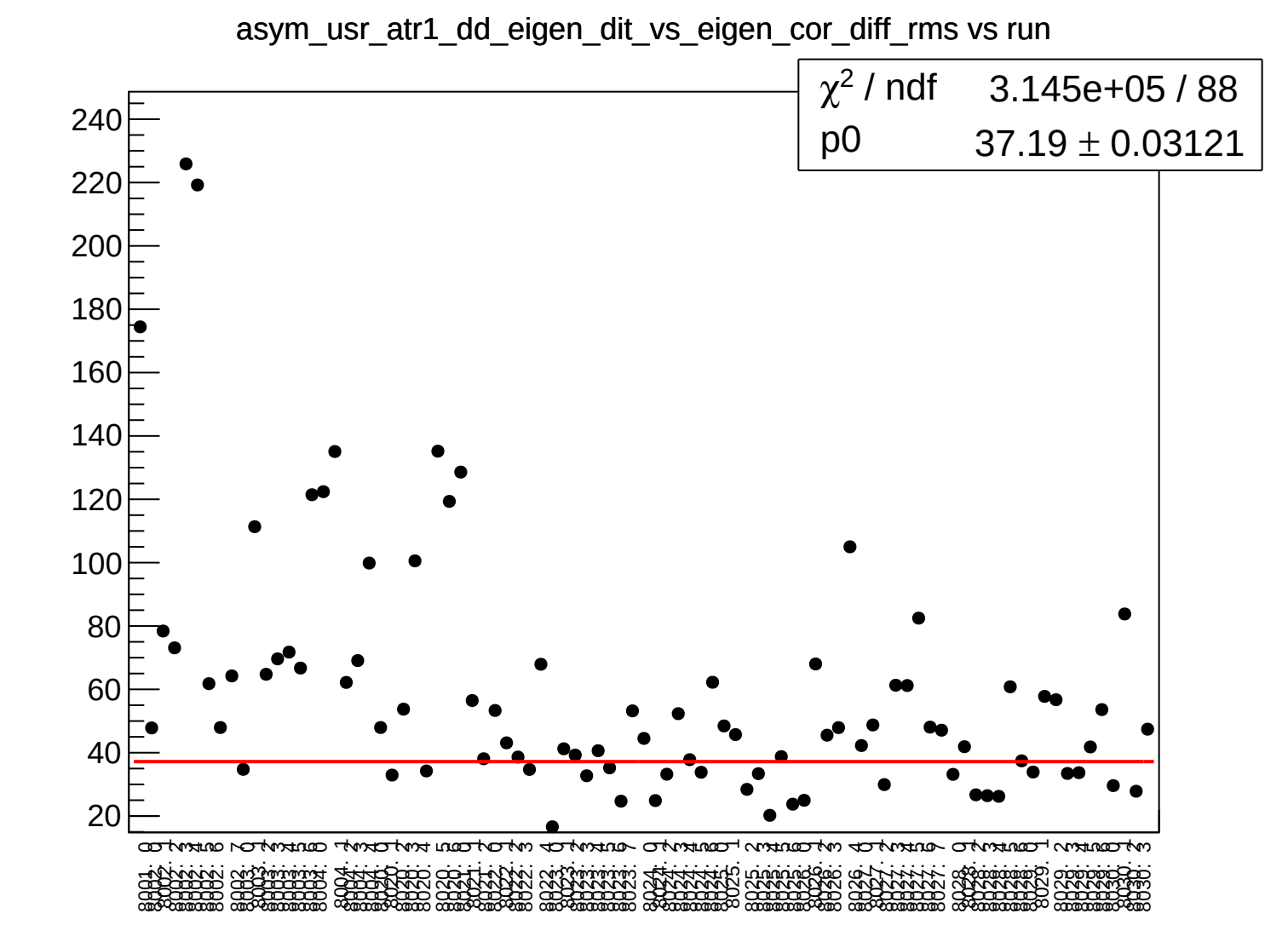

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5999 / 88
p0 0.003477 ± 2.645e−06
0.004
0.0038
0.0036
0.0034
0.0032
0.003

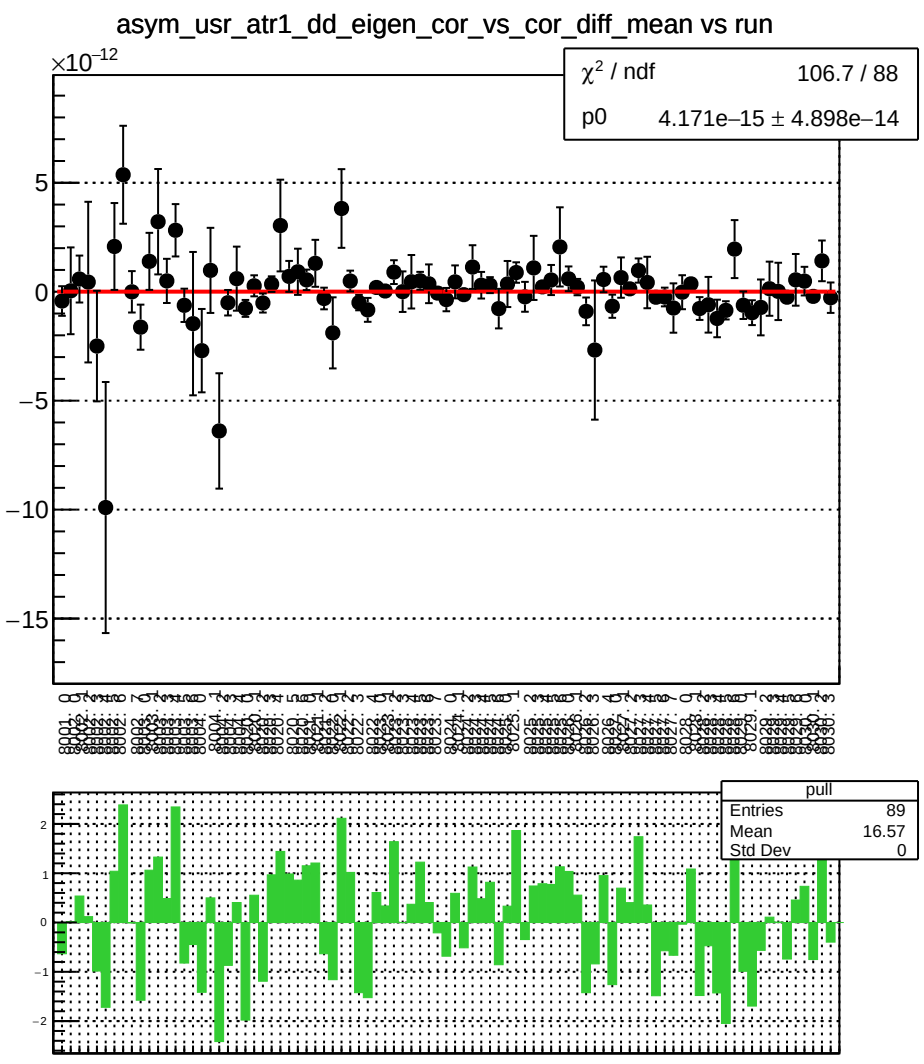

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.38 / 88
p0 −0.01131 ± 0.04413
pull
Entries 89
Mean 128.2
Std Dev 0

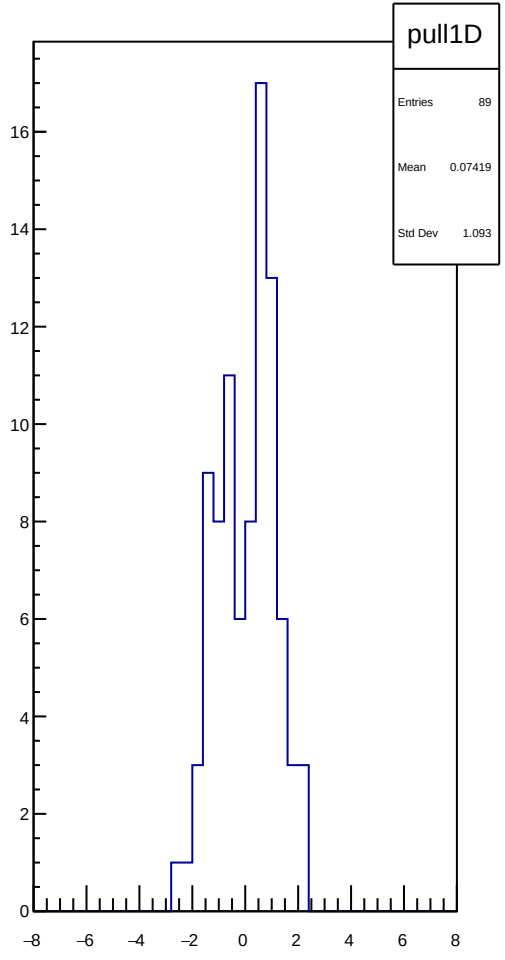

pull1D
Entries 89
Mean 0.01798
Std Dev 0.9678

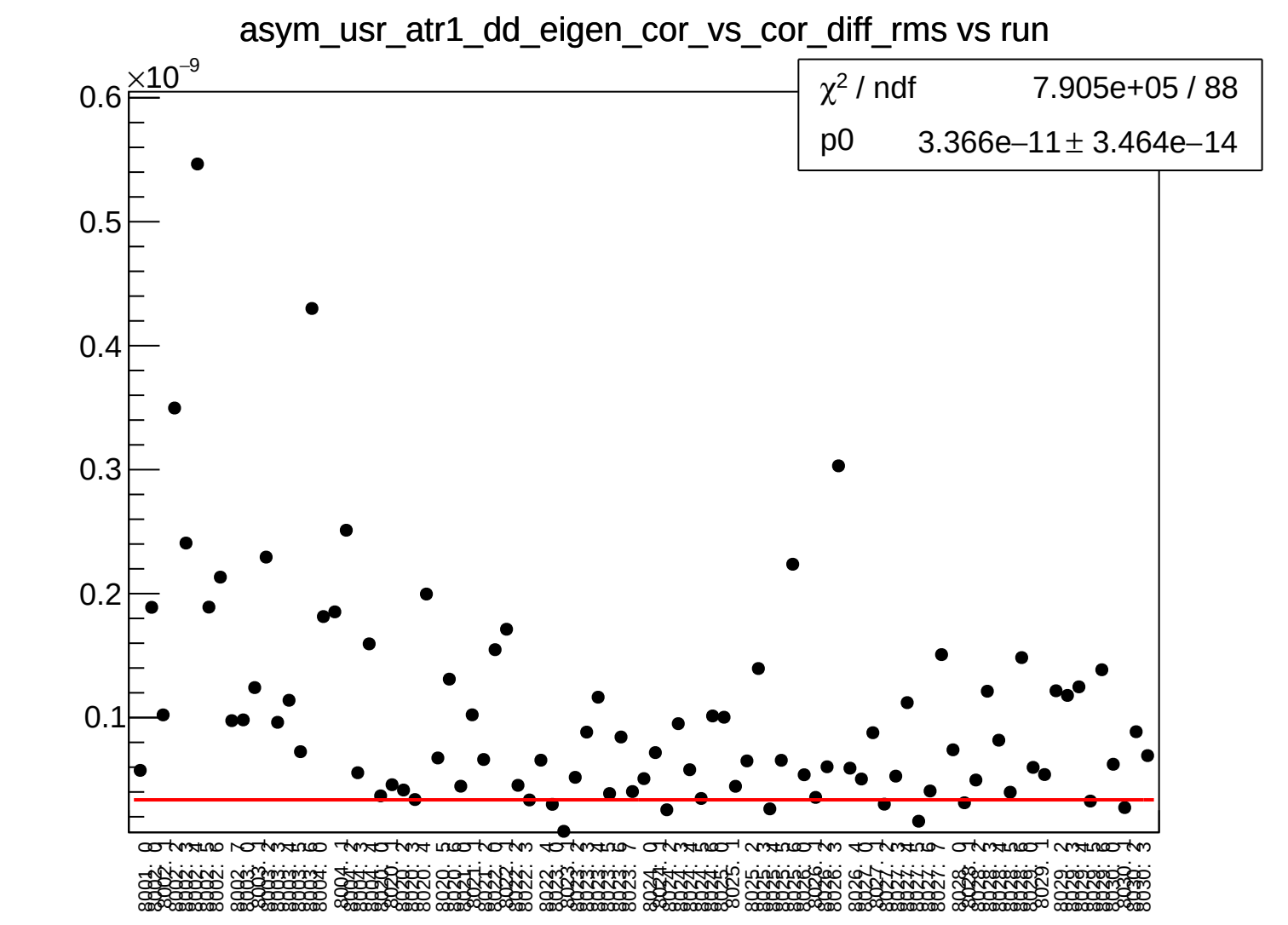

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.145e+05 / 88
p0 37.19 ± 0.03121
240
220
200
180
160
140
120
100
80
60
40
20

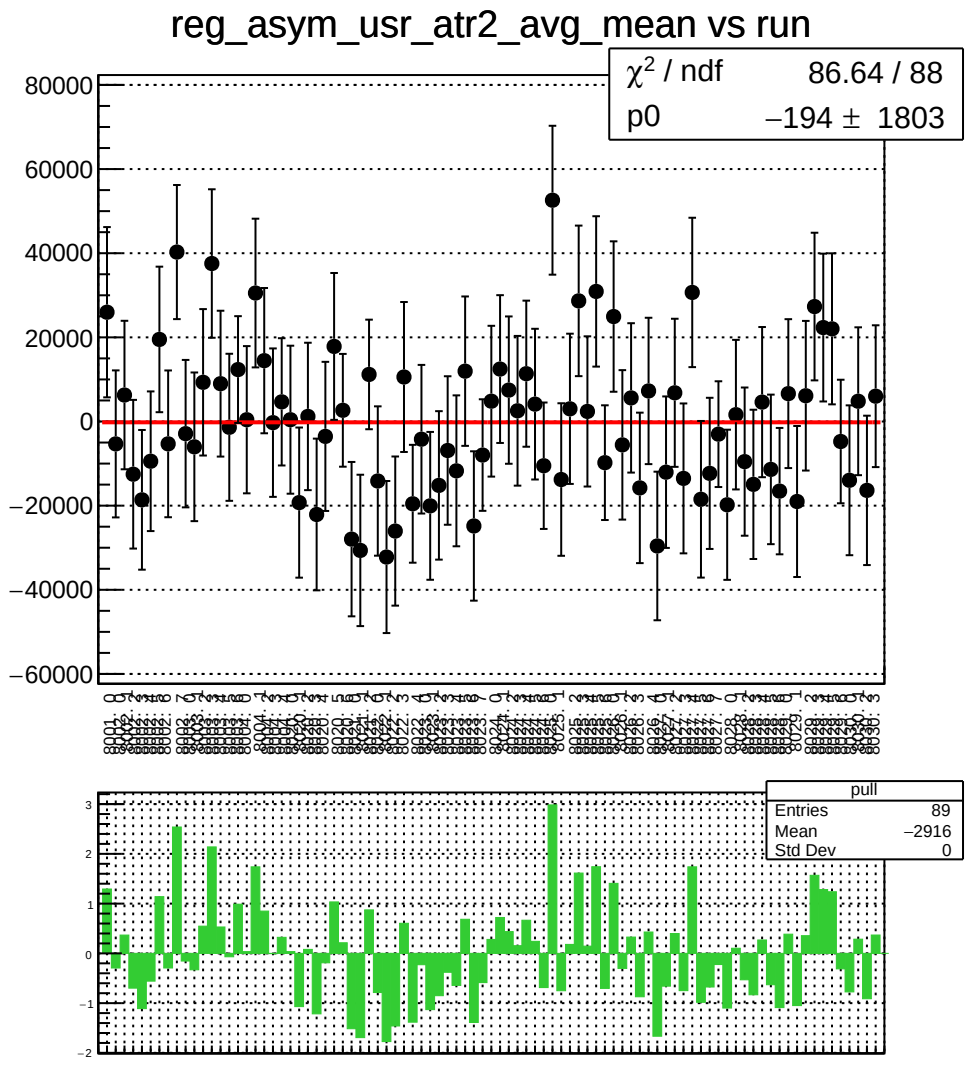

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.38 / 88
p0 −0.01131 ± 0.04413
pull
Entries 89
Mean 128.2
Std Dev 0
pull1D
Entries 89
Mean 0.01798
Std Dev 0.9678

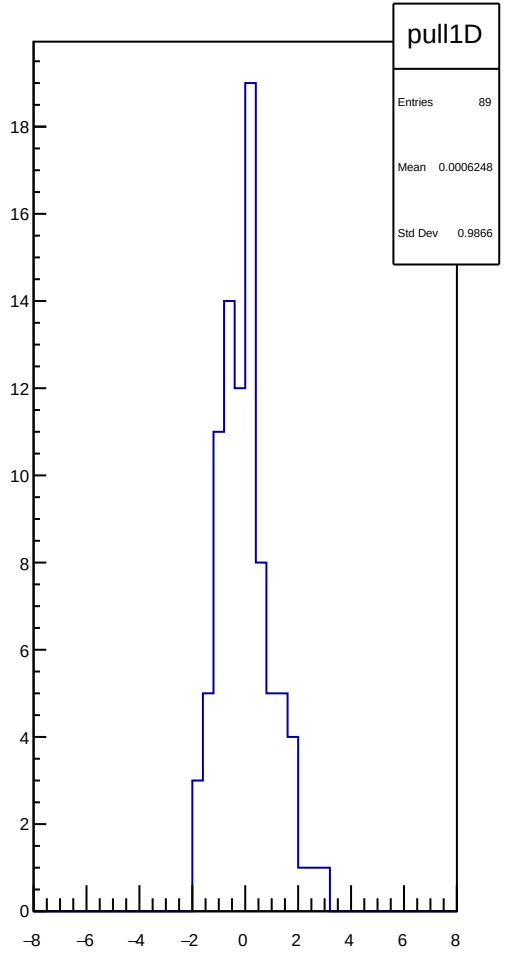

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.145e+05 / 88
p0 37.19 ± 0.03121
240
220
200
180
160
140
120
100
80
60
40
20

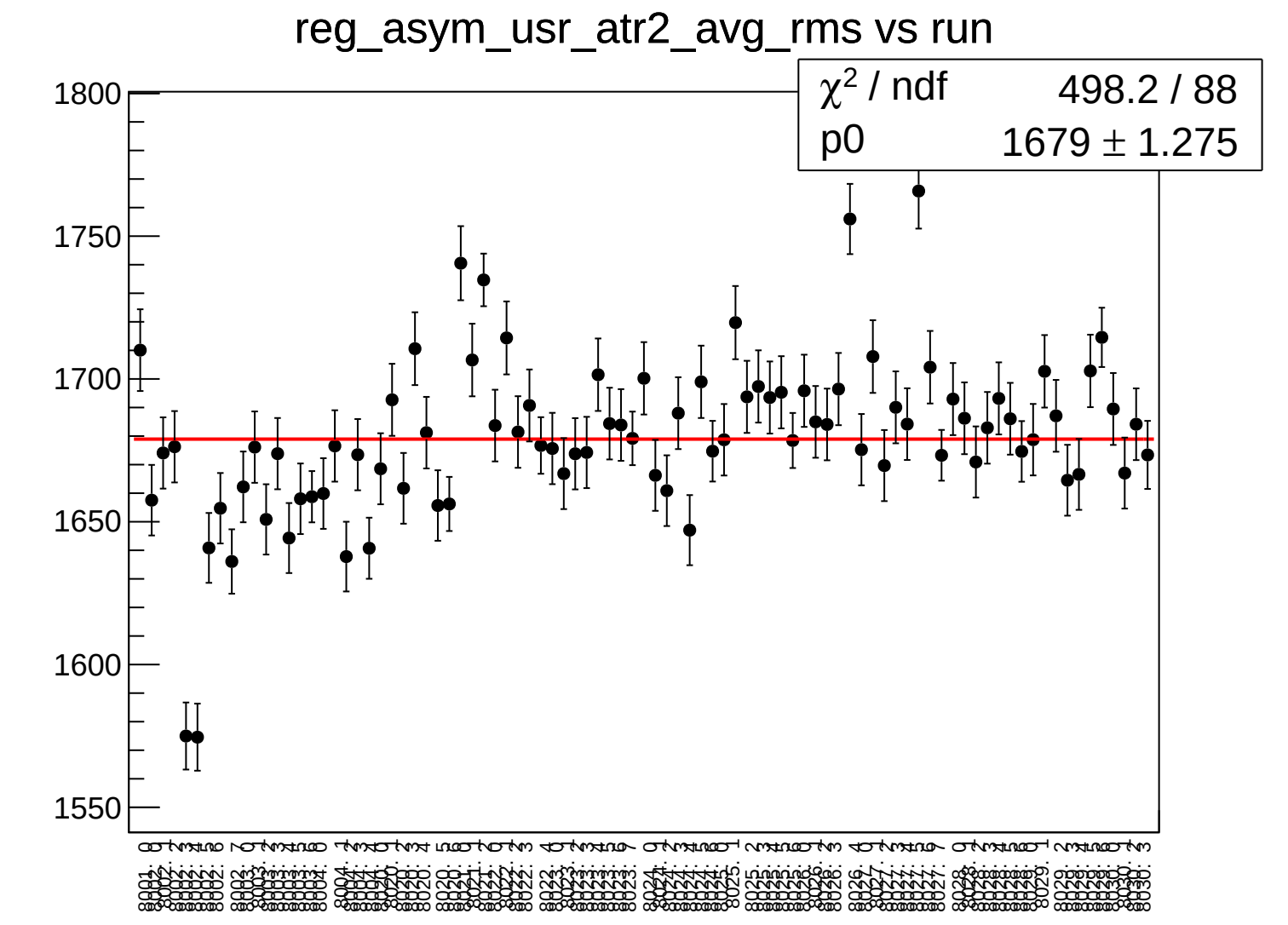

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 106.7 / 88
p0 4.171e−15 ± 4.898e−14
5
0
−5
−10
−15
pull
Entries 89
Mean 16.57
Std Dev 0
2
1
0
−1
−2

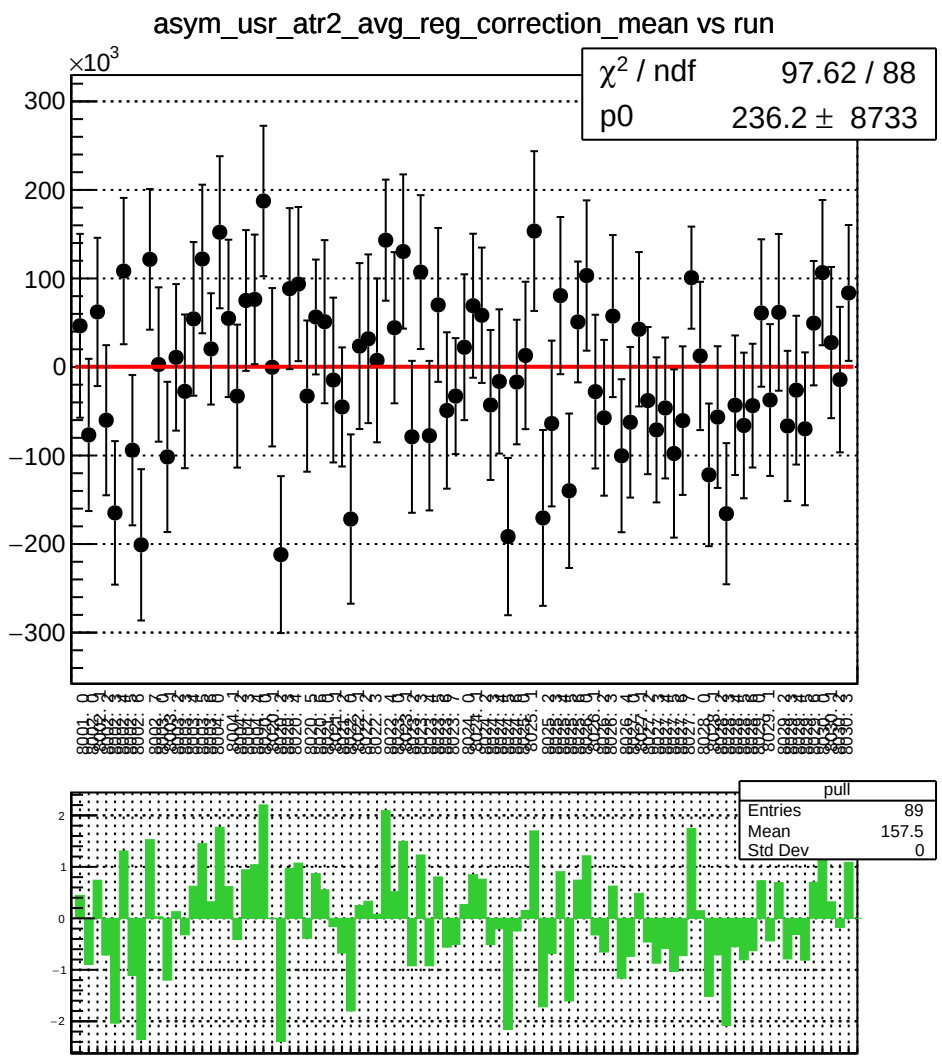

pull1D
Entries 89
Mean 0.07419
Std Dev 1.093
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

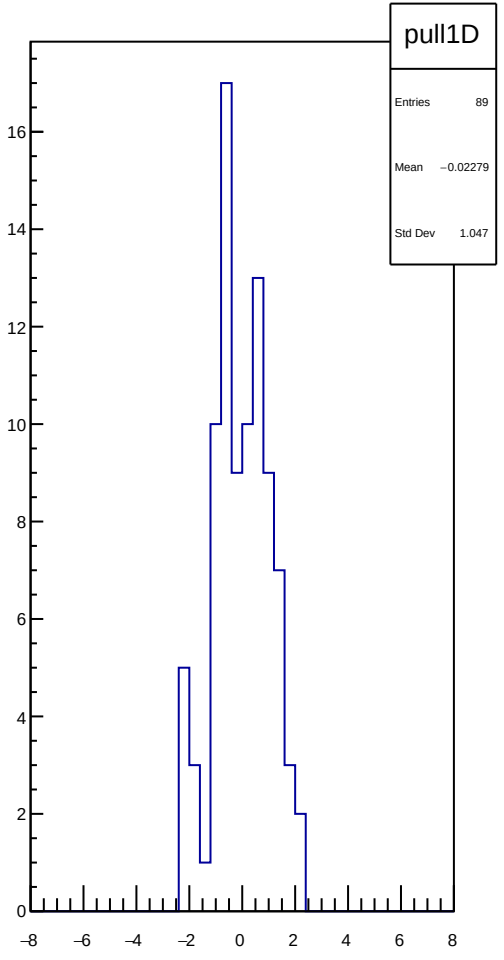

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.905e+05 / 88
p0 3.366e−11 ± 3.464e−14
0.6
0.5
0.4
0.3
0.2
0.1

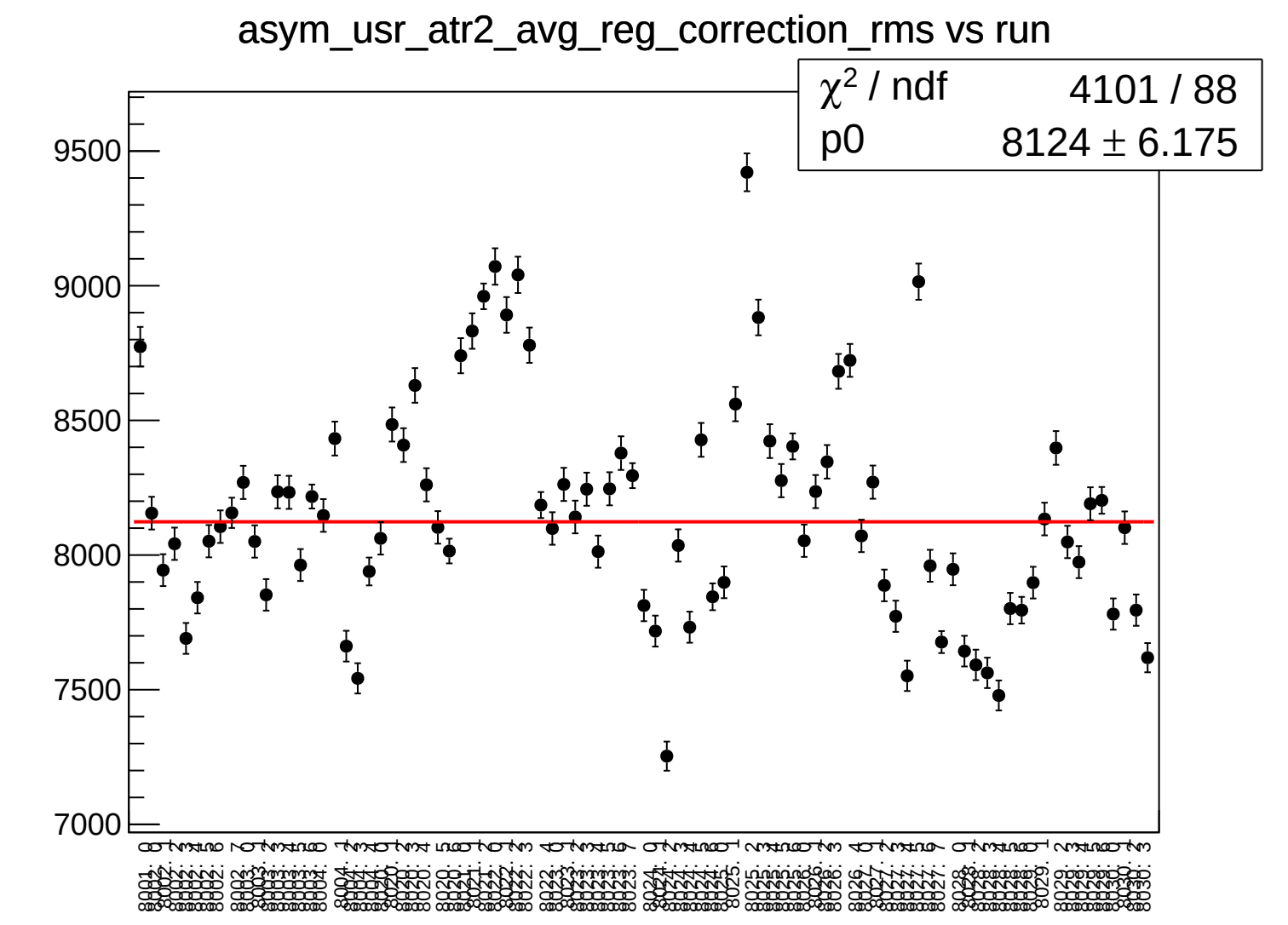

reg_asym_usr_atr2_avg_mean vs run
χ² / ndf 86.64 / 88
p0 −194 ± 1803
pull
Entries 89
Mean −2916
Std Dev 0

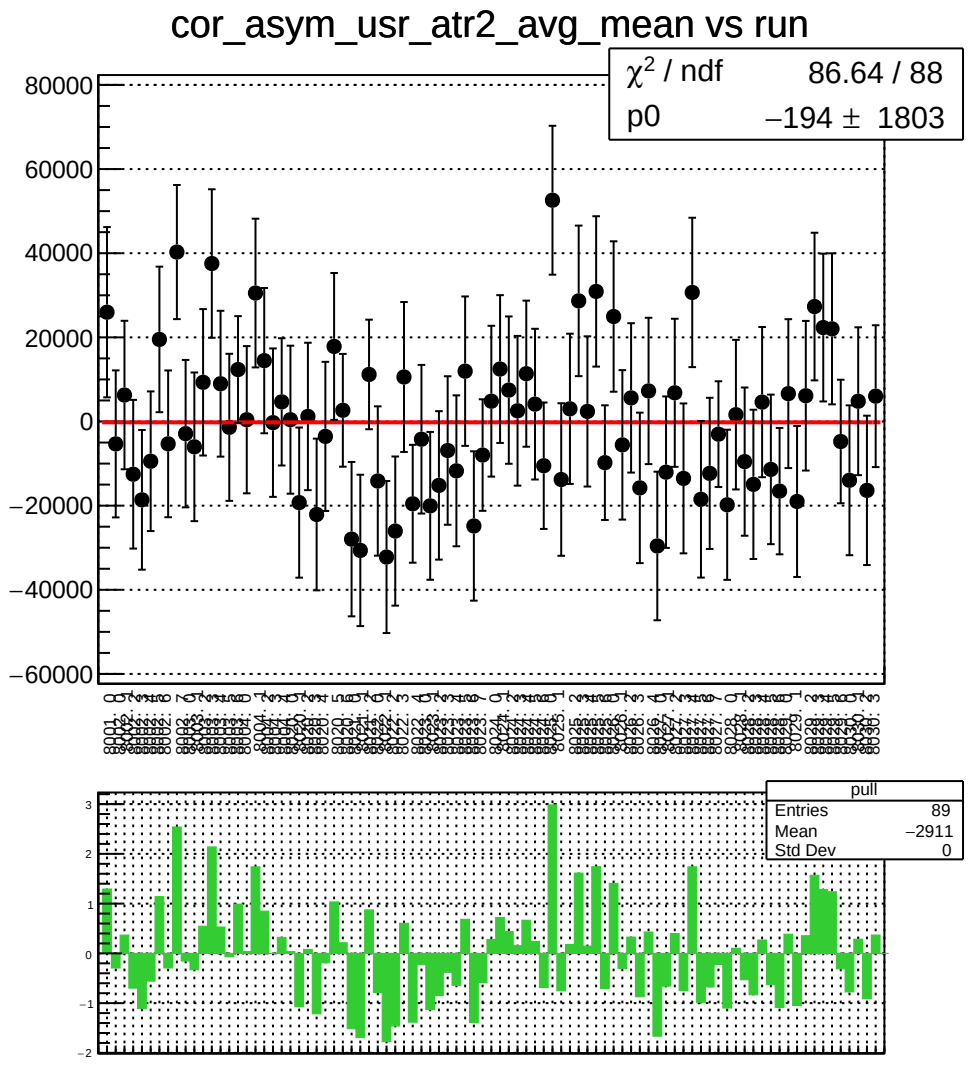

pull1D
Entries 89
Mean 0.0006248
Std Dev 0.9866

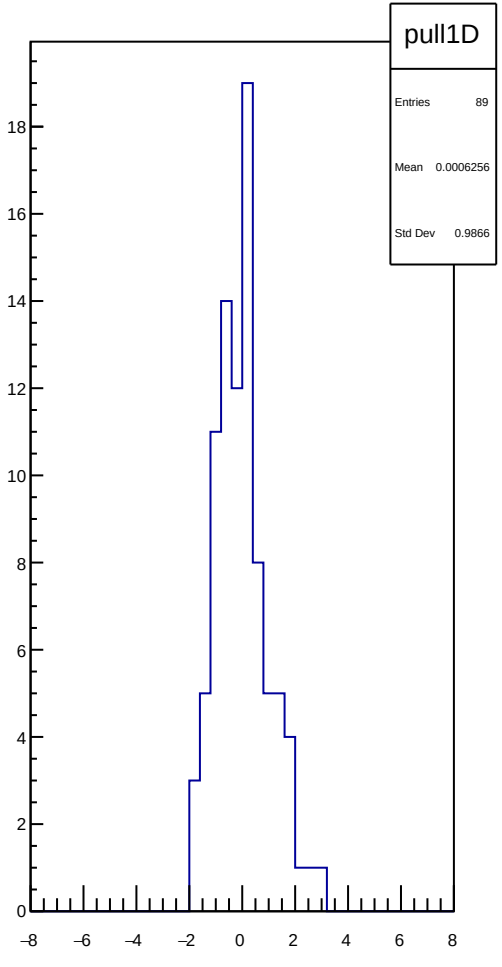

reg_asym_usr_atr2_avg_rms vs run
χ² / ndf 498.2 / 88
p0 1679 ± 1.275
1800
1750
1700
1650
1600
1550

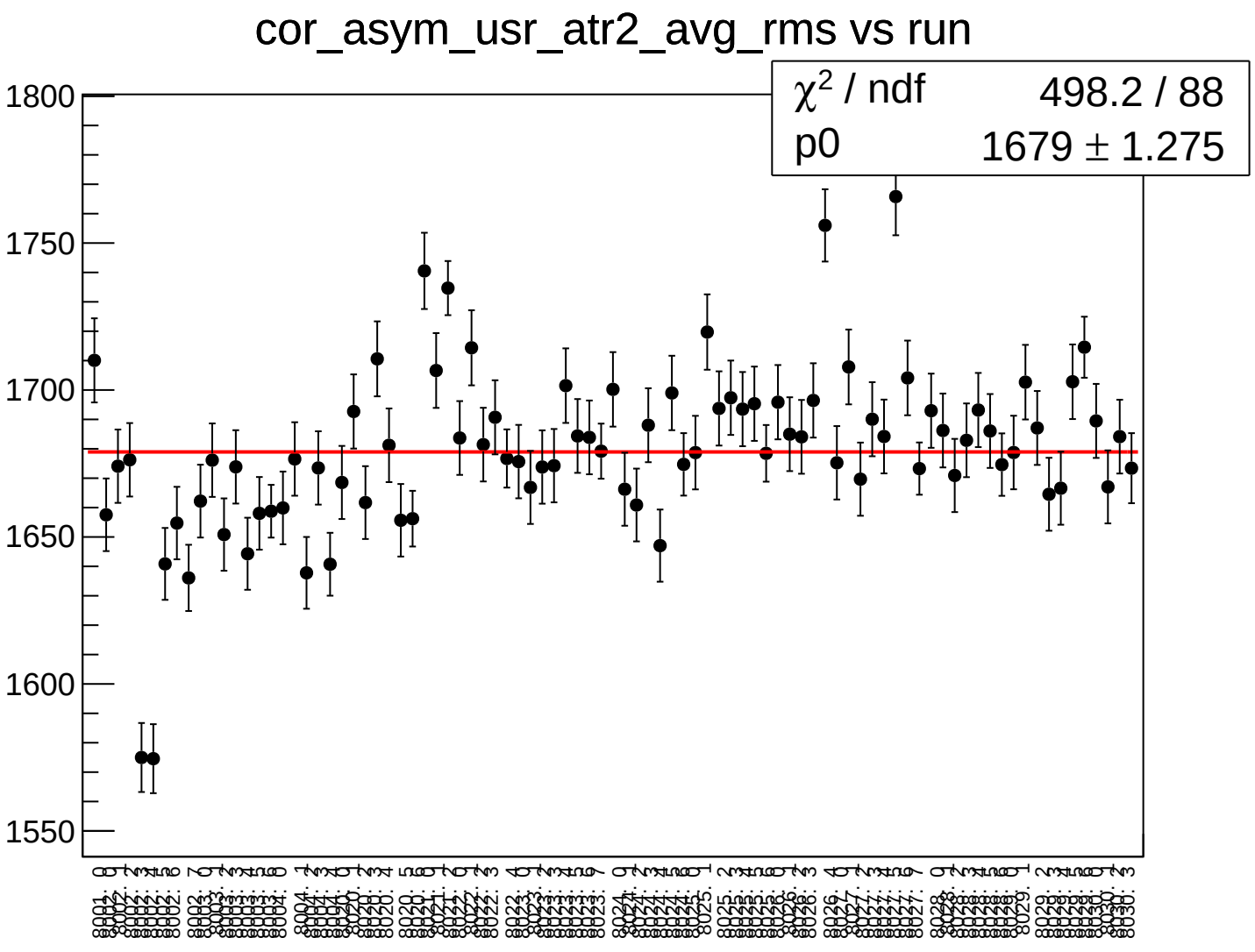

asym_usr_atr2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 97.62 / 88
p0 236.2 ± 8733
pull
Entries 89
Mean 157.5
Std Dev 0

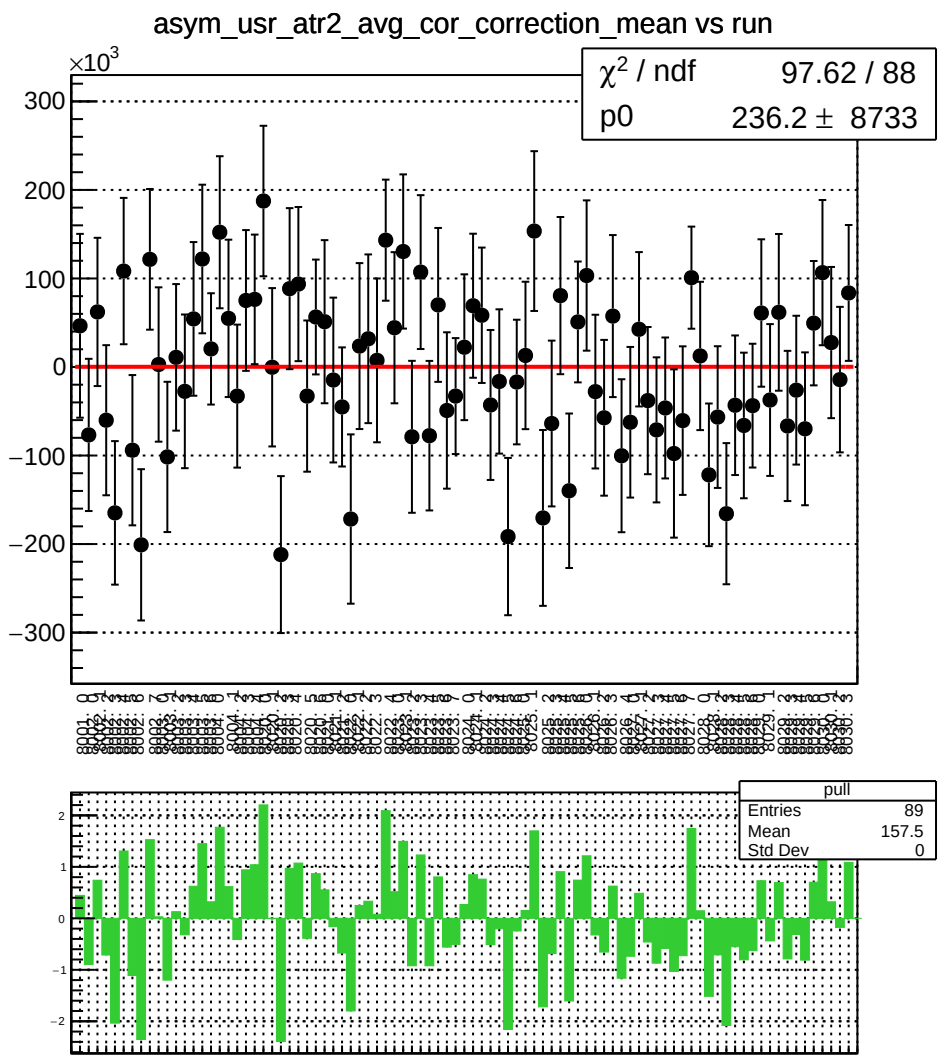

pull1D
Entries 89
Mean −0.02279
Std Dev 1.047

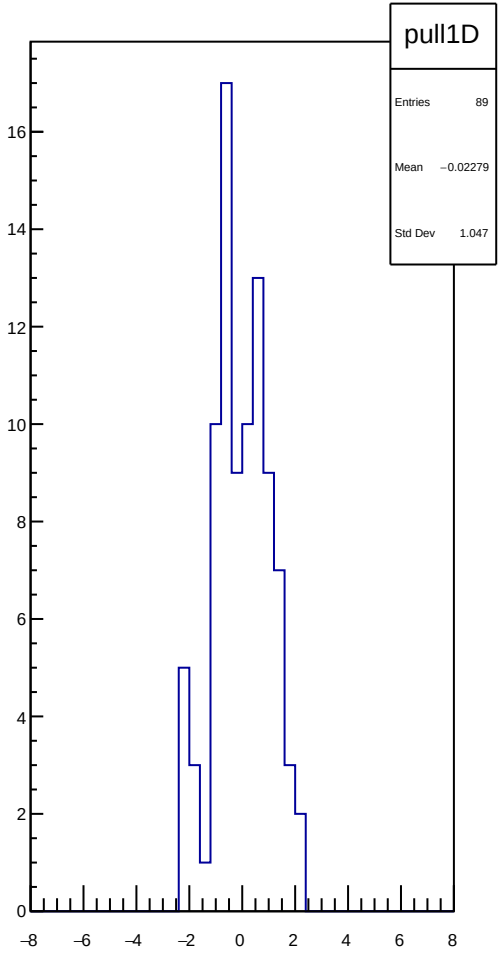

asym_usr_atr2_avg_reg_correction_rms vs run
χ² / ndf 4101 / 88
p0 8124 ± 6.175
9500
9000
8500
8000
7500
7000

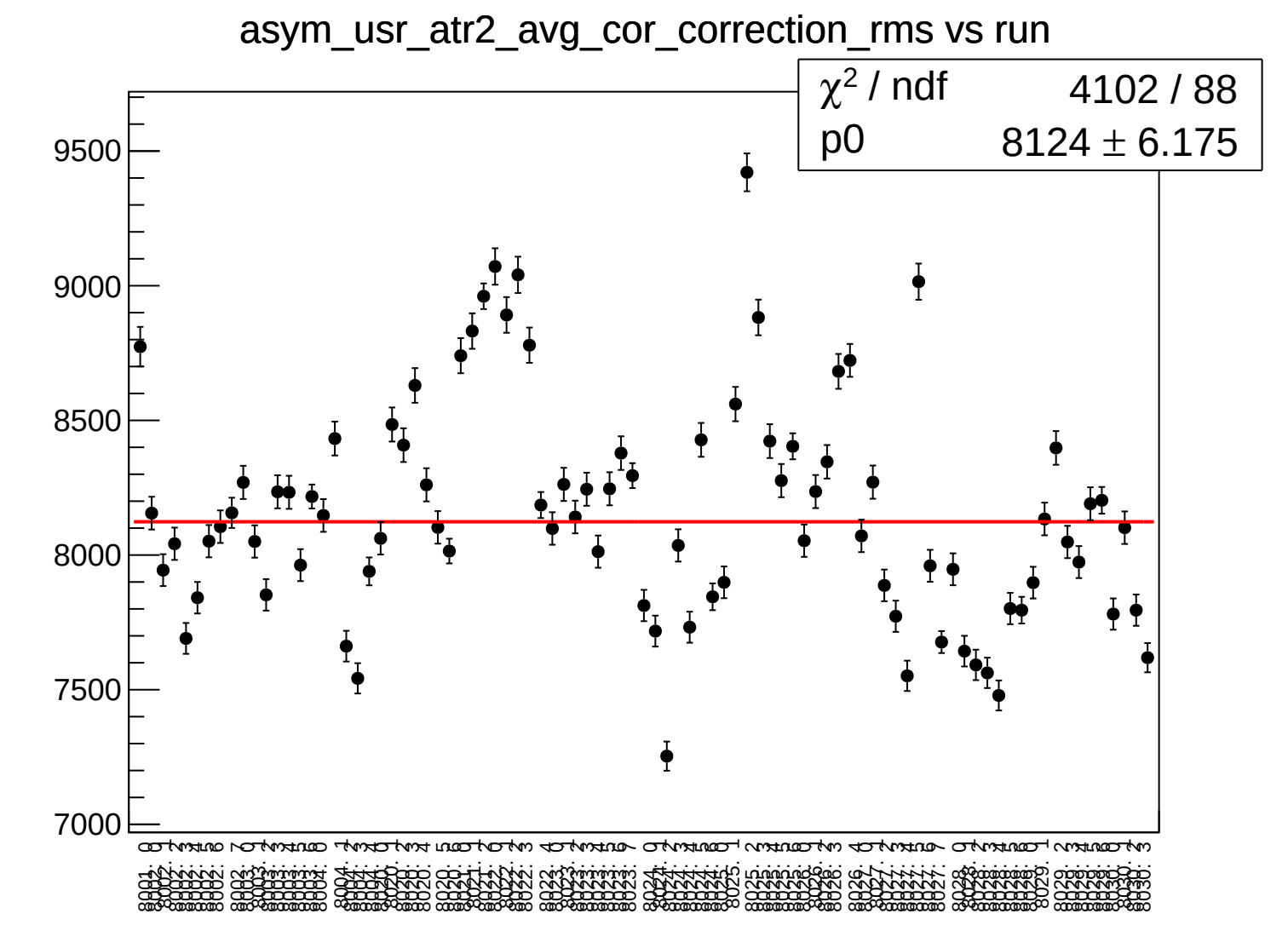

cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 86.64 / 88
p0 −194 ± 1803
pull
Entries 89
Mean −2911
Std Dev 0

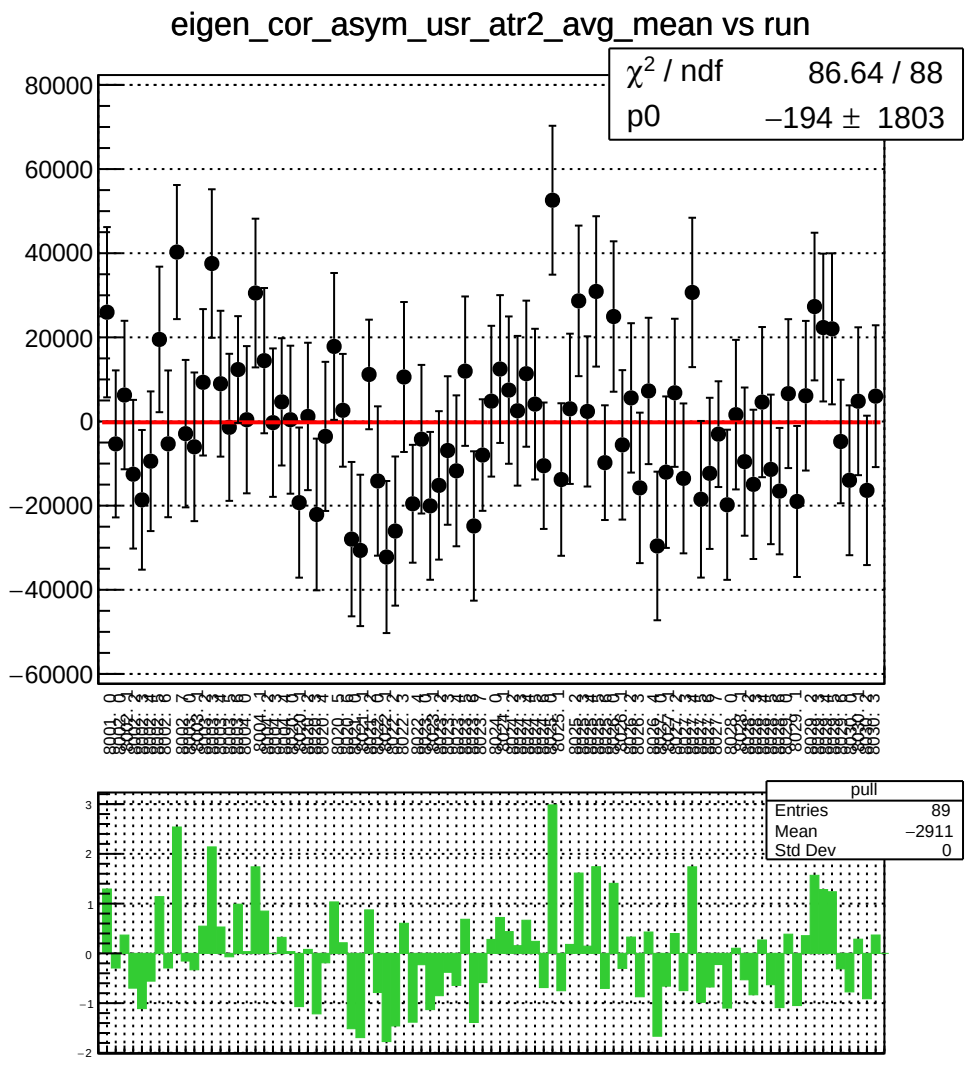

pull1D
Entries 89
Mean 0.0006256
Std Dev 0.9866

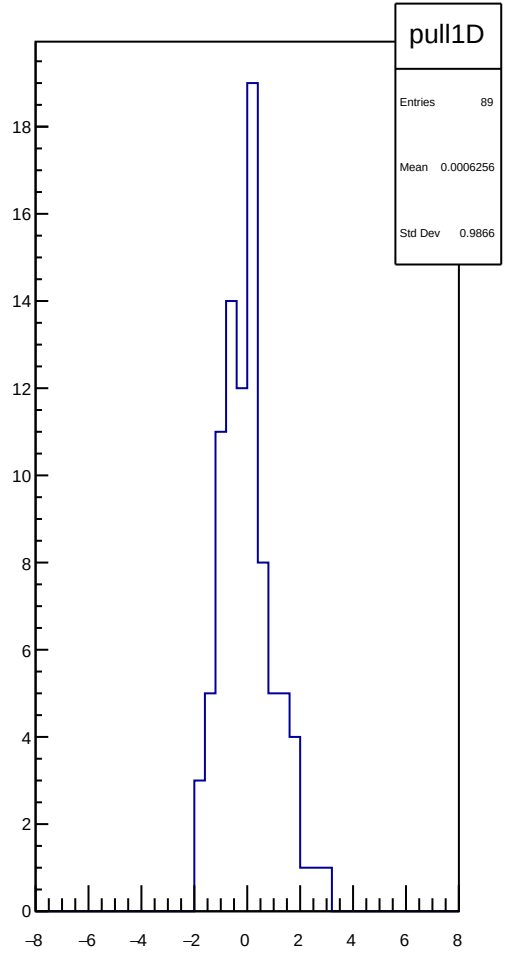

cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 498.2 / 88
p0 1679 ± 1.275
1800
1750
1700
1650
1600
1550

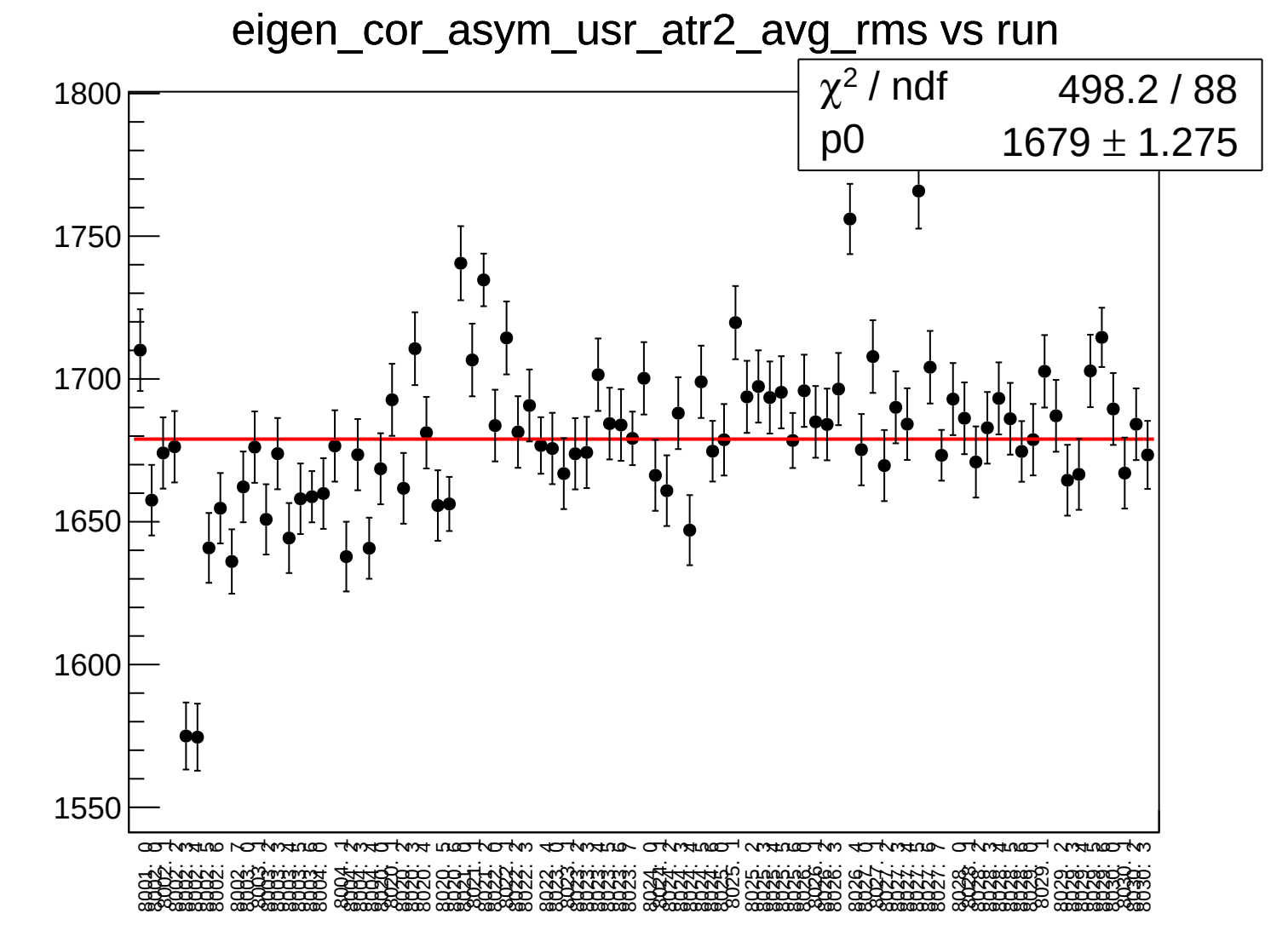

asym_usr_atr2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 97.62 / 88
p0 236.2 ± 8733
pull
Entries 89
Mean 157.5
Std Dev 0

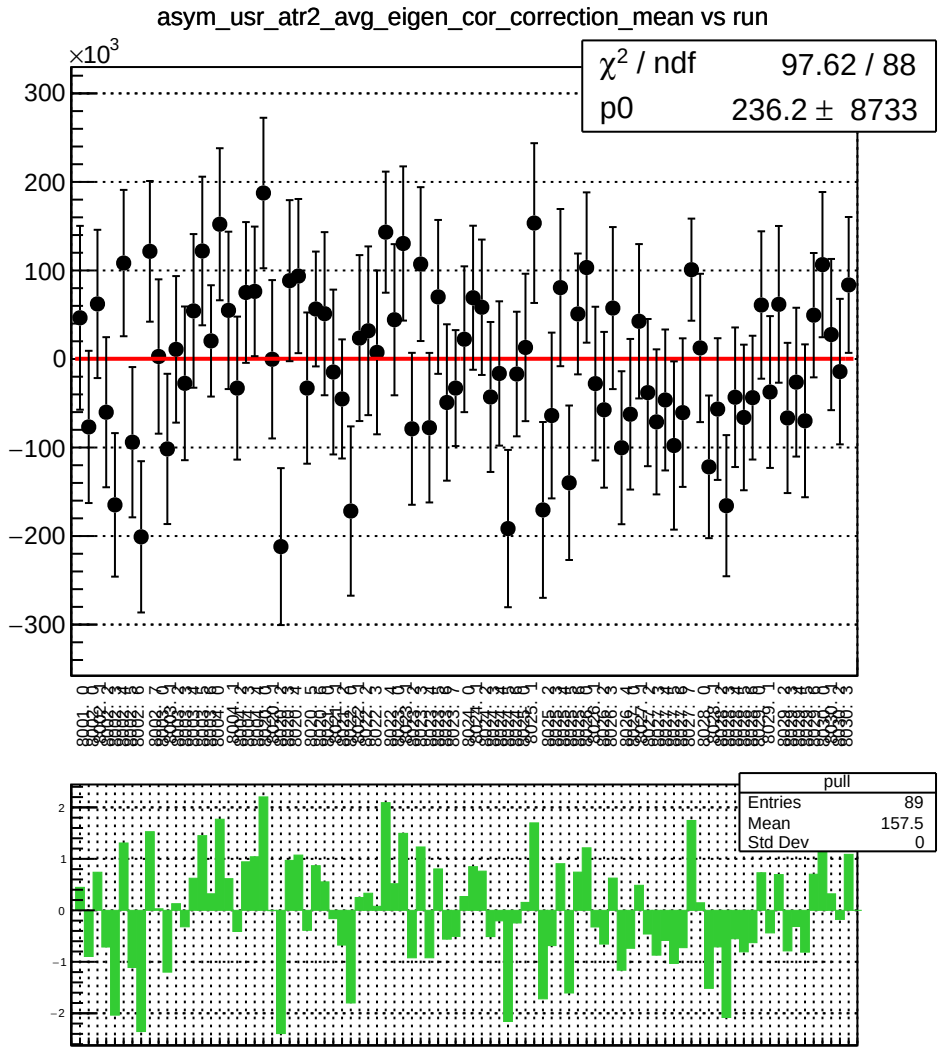

pull1D
Entries 89
Mean −0.02279
Std Dev 1.047

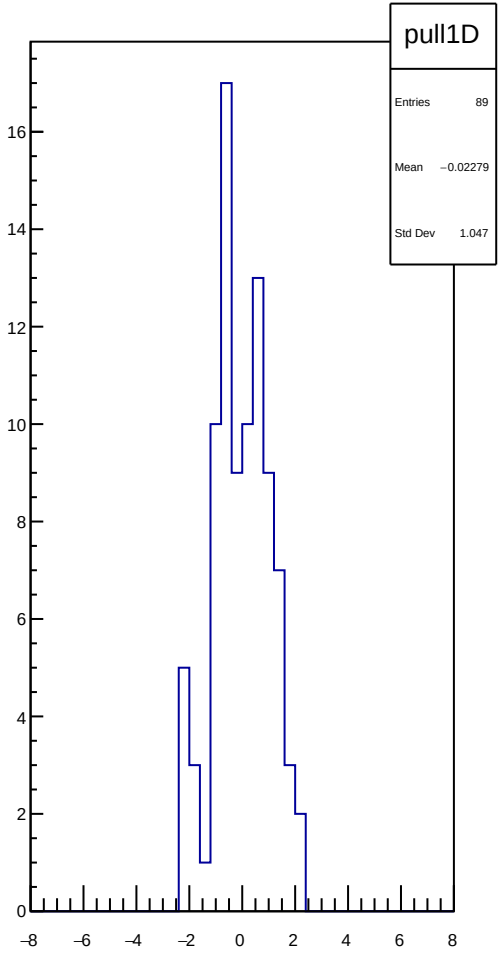

asym_usr_atr2_avg_cor_correction_rms vs run
χ² / ndf 4102 / 88
p0 8124 ± 6.175
9500
9000
8500
8000
7500
7000

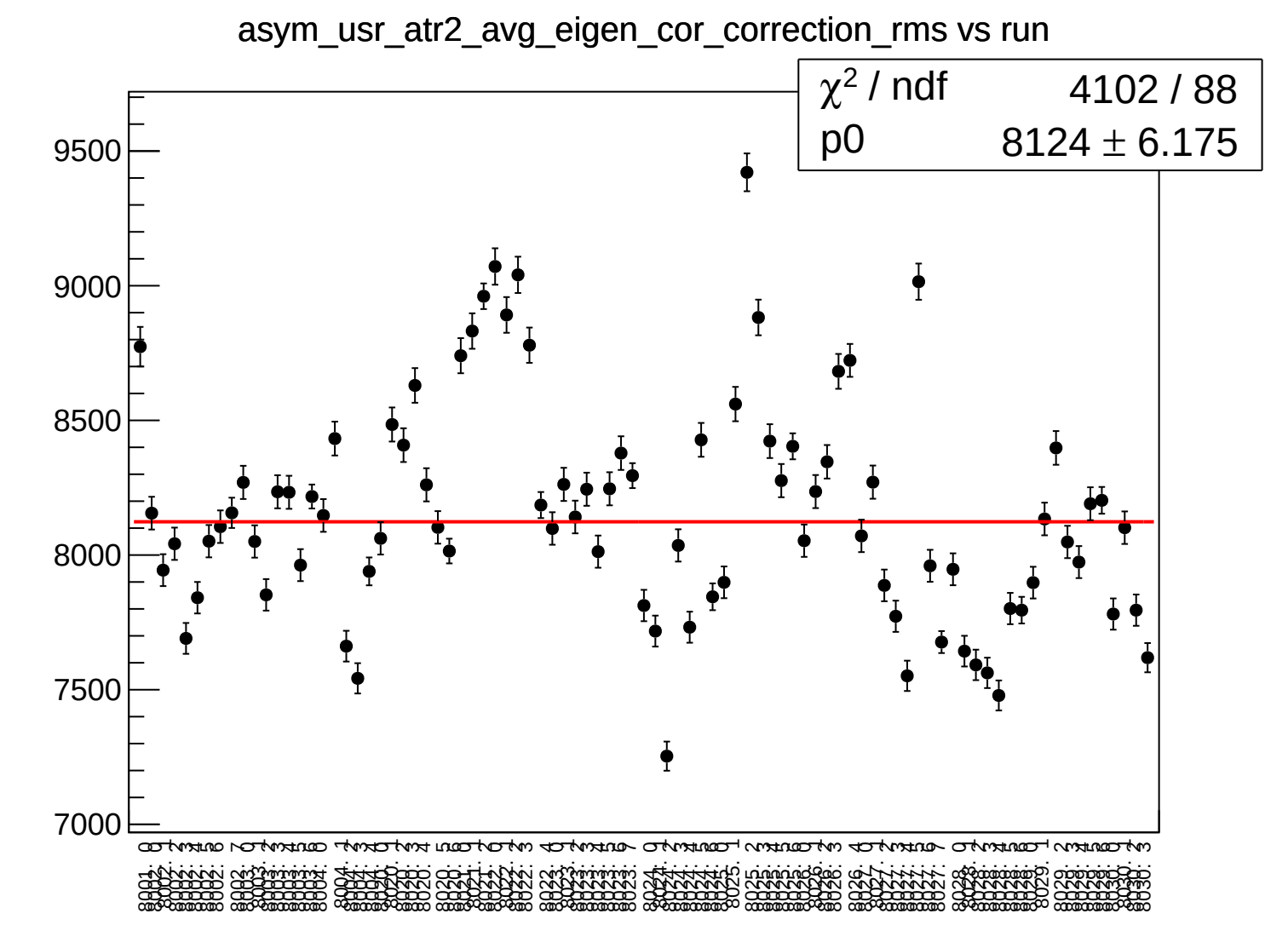

eigen_cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 86.64 / 88
p0 −194 ± 1803
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −2911
Std Dev 0
3
2
1
0
−1
−2

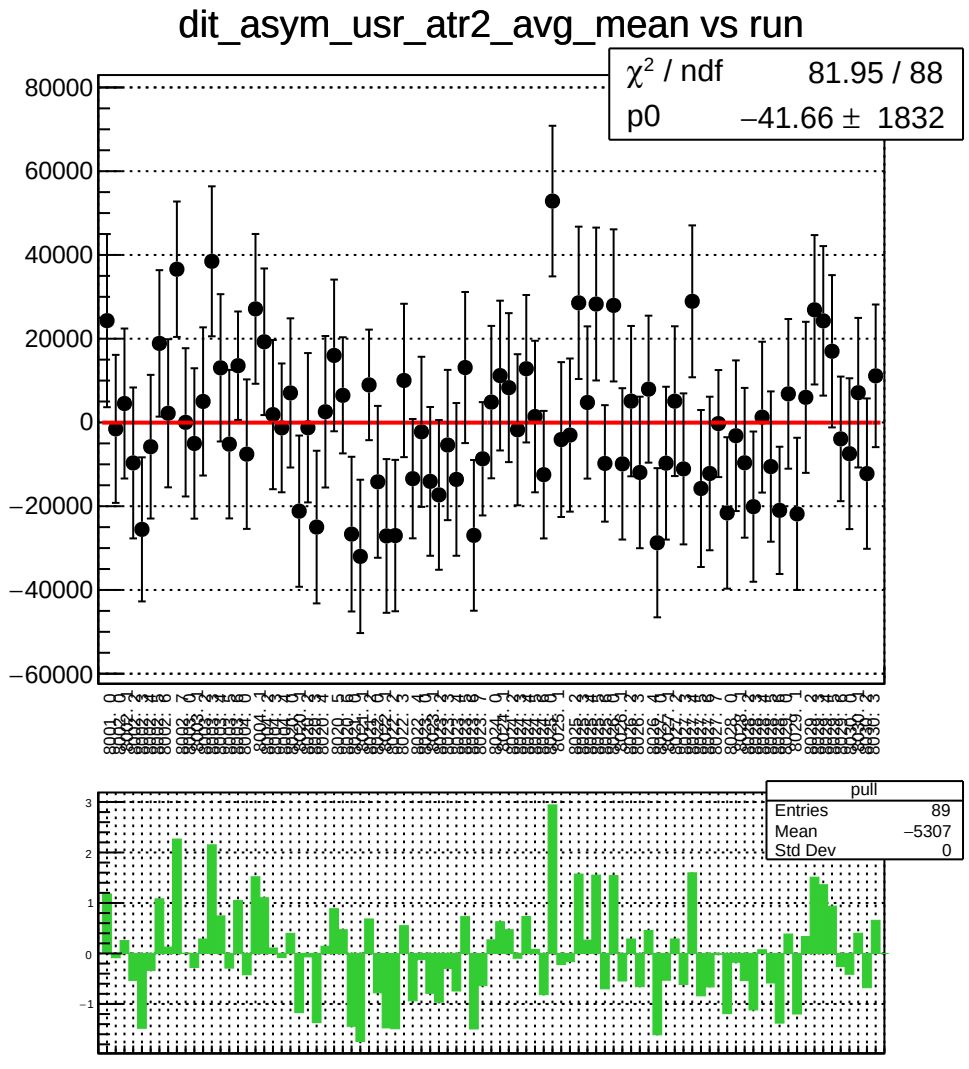

pull1D
Entries 89
Mean 0.0006256
Std Dev 0.9866
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

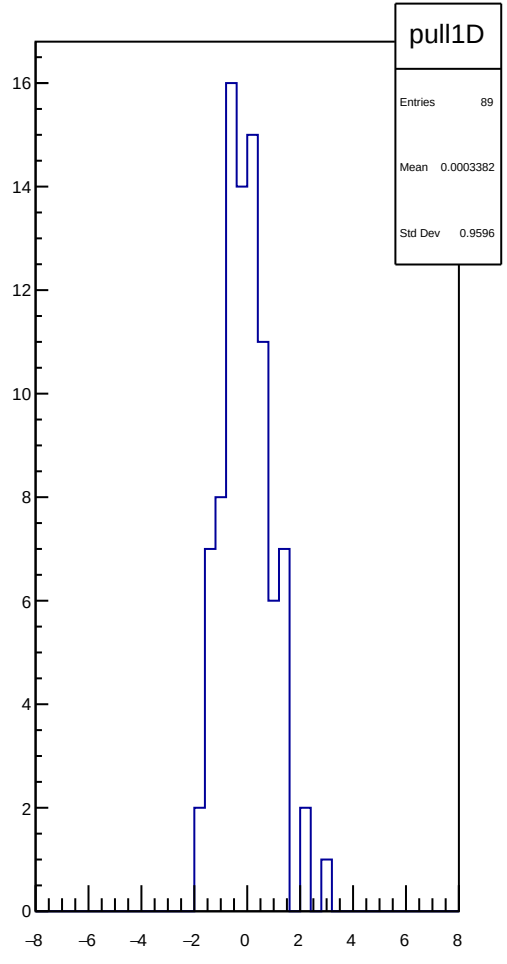

eigen_cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 498.2 / 88
p0 1679 ± 1.275
1800
1750
1700
1650
1600
1550

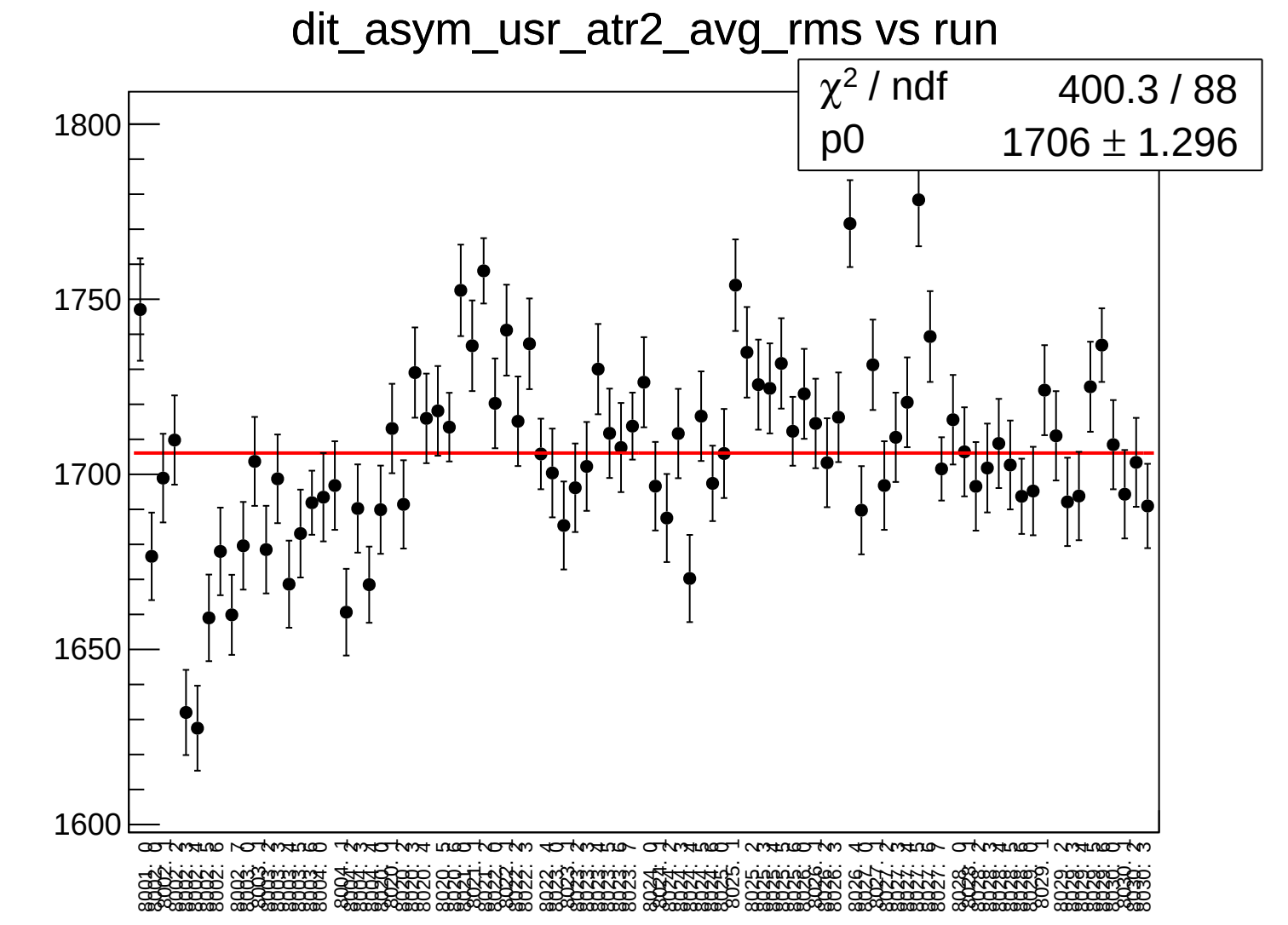

asym_usr_atr2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 97.62 / 88
p0 236.2 ± 8733
pull
Entries 89
Mean 157.5
Std Dev 0

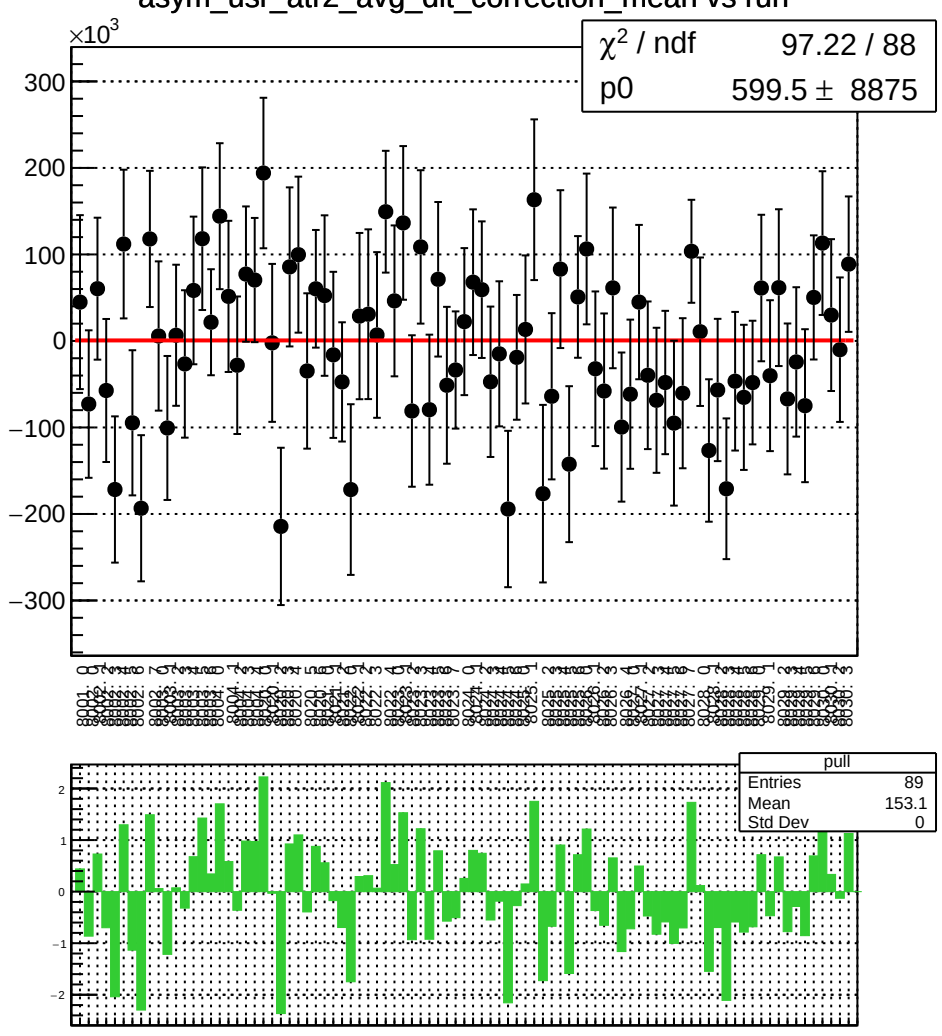

pull1D
Entries 89
Mean −0.02279
Std Dev 1.047

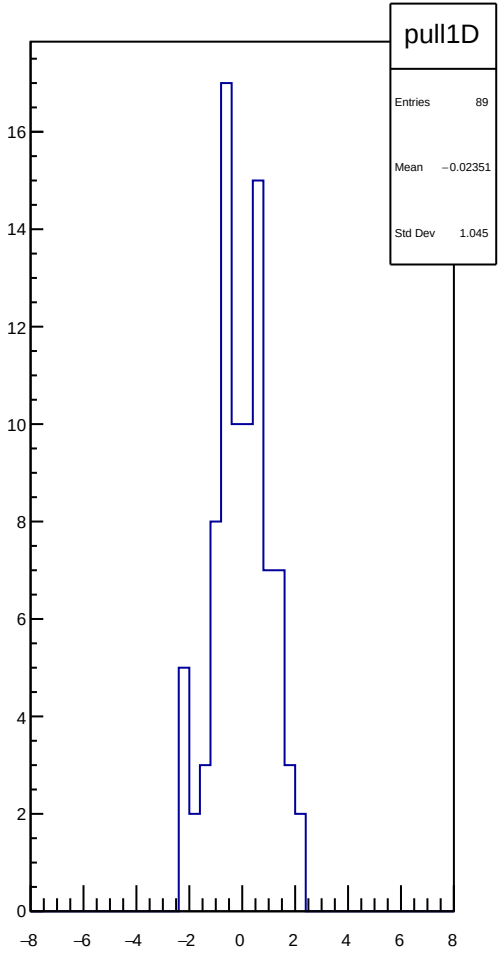

asym_usr_atr2_avg_eigen_cor_correction_rms vs run
χ² / ndf 4102 / 88
p0 8124 ± 6.175
9500
9000
8500
8000
7500
7000

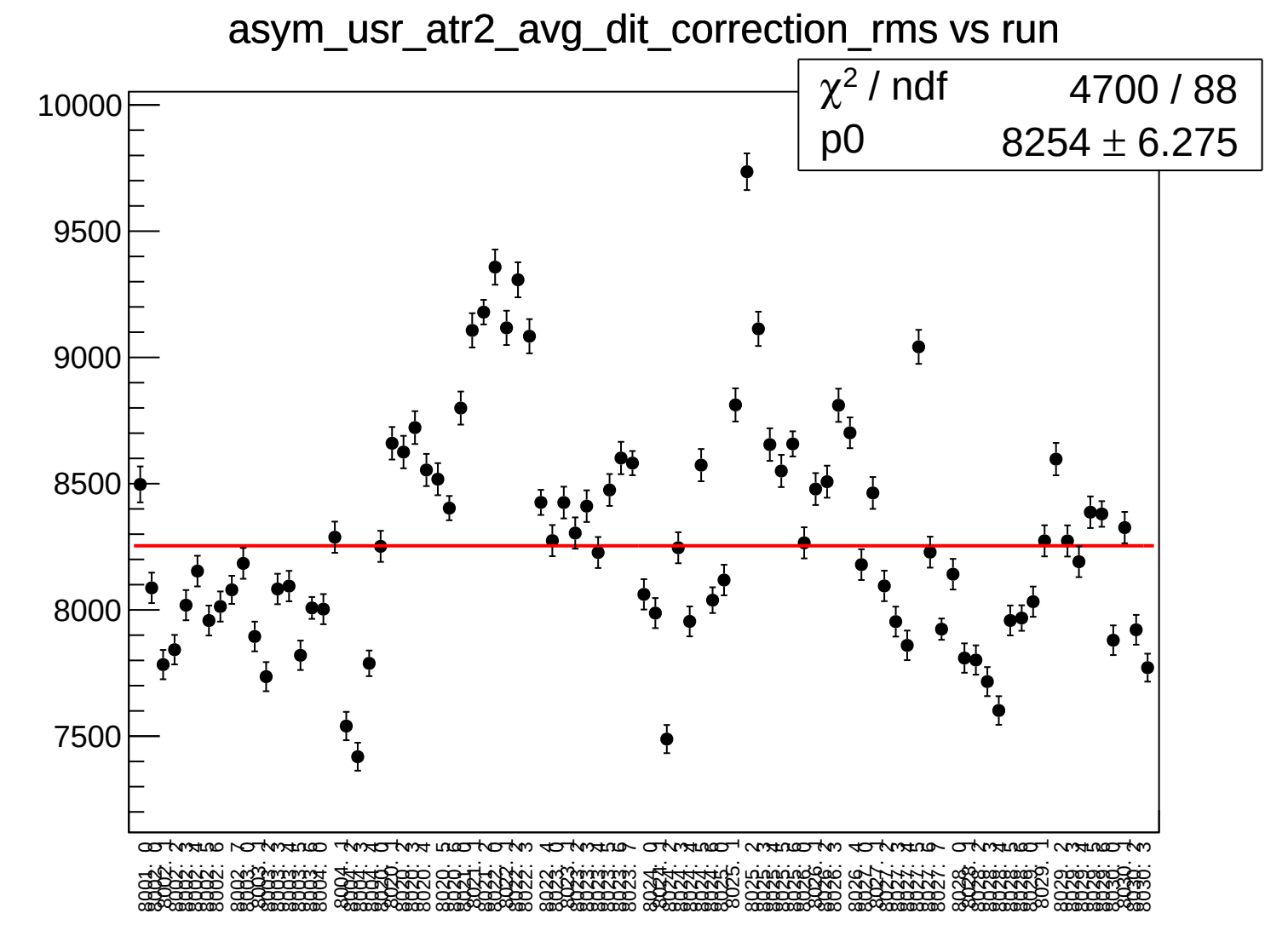

dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 81.95 / 88
p0 −41.66 ± 1832
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −5307
Std Dev 0
3
2
1
0
−1

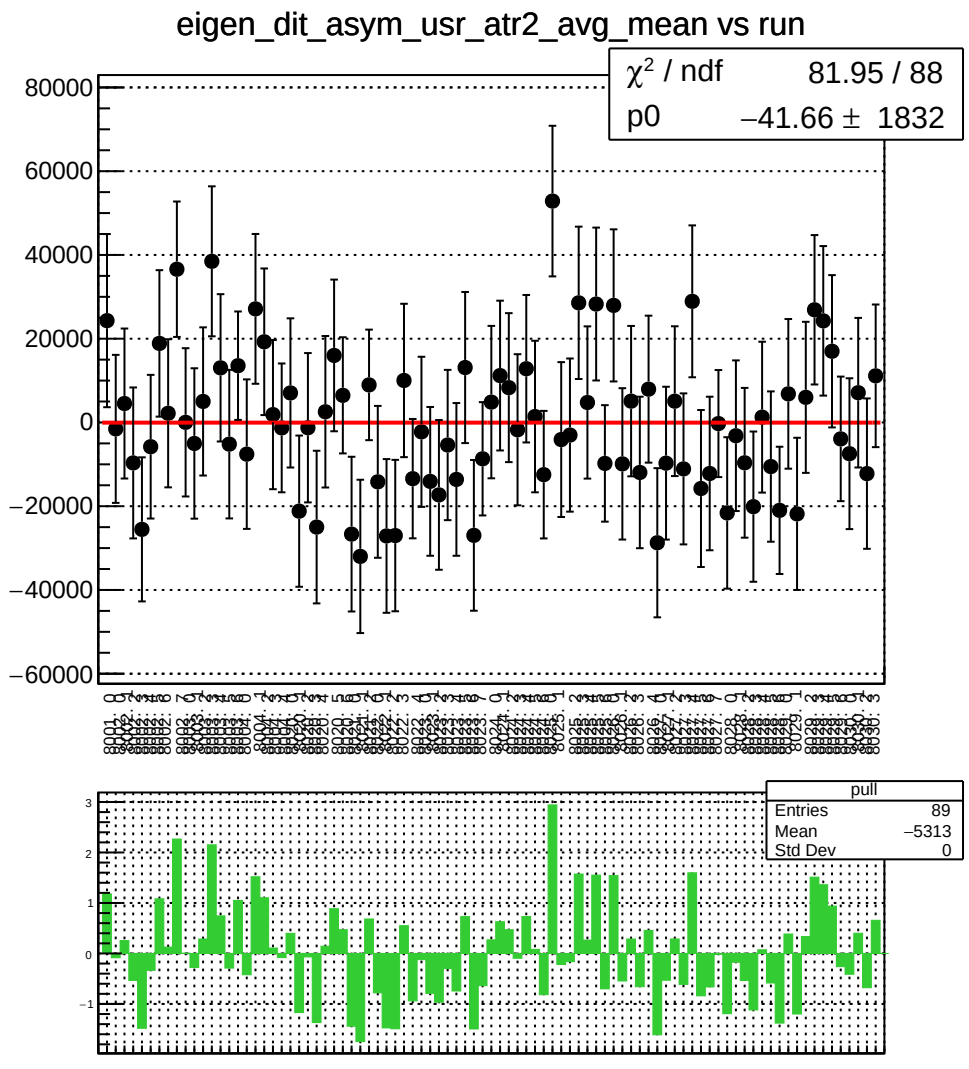

pull1D
Entries 89
Mean 0.0003382
Std Dev 0.9596
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

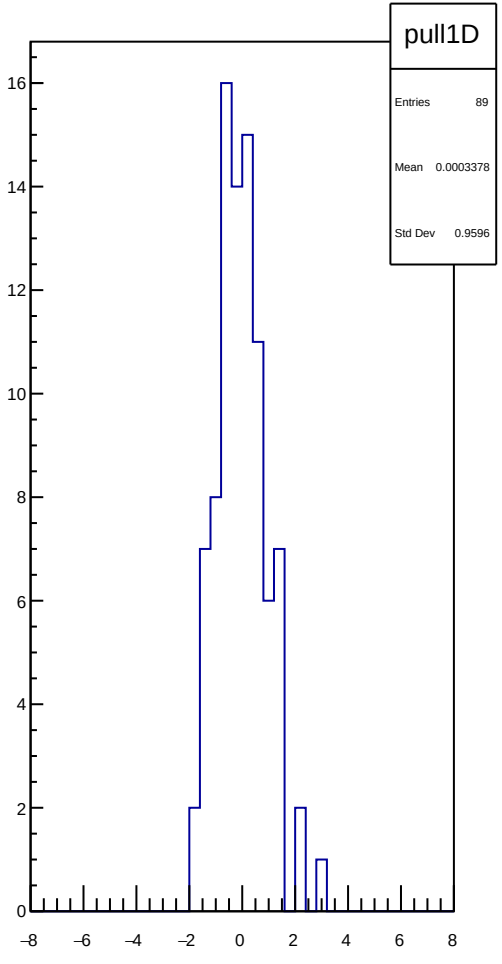

dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 400.3 / 88
p0 1706 ± 1.296
1800
1750
1700
1650
1600

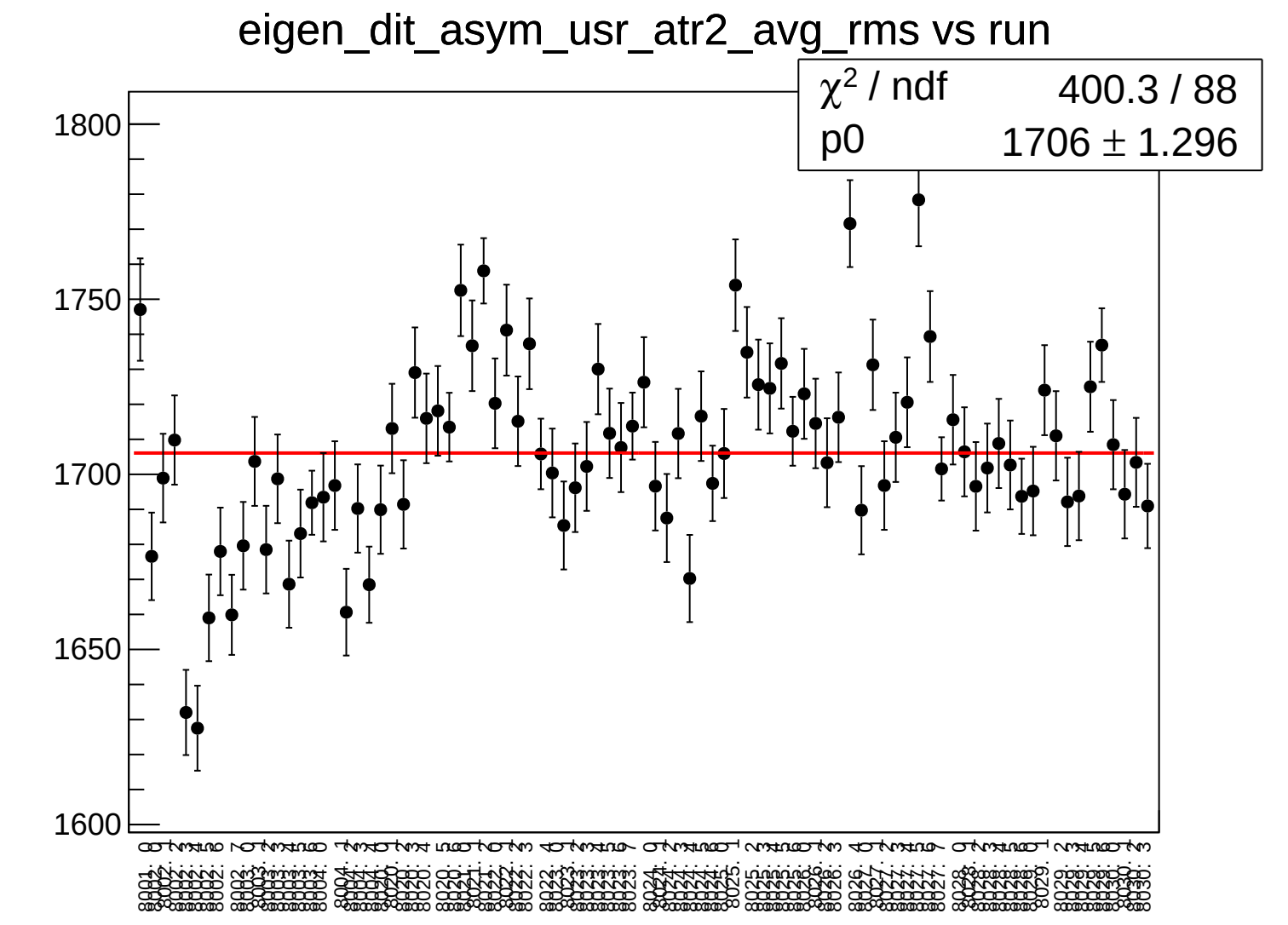

asym_usr_atr2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 97.22 / 88
p0 599.5 ± 8875
pull
Entries 89
Mean 153.1
Std Dev 0

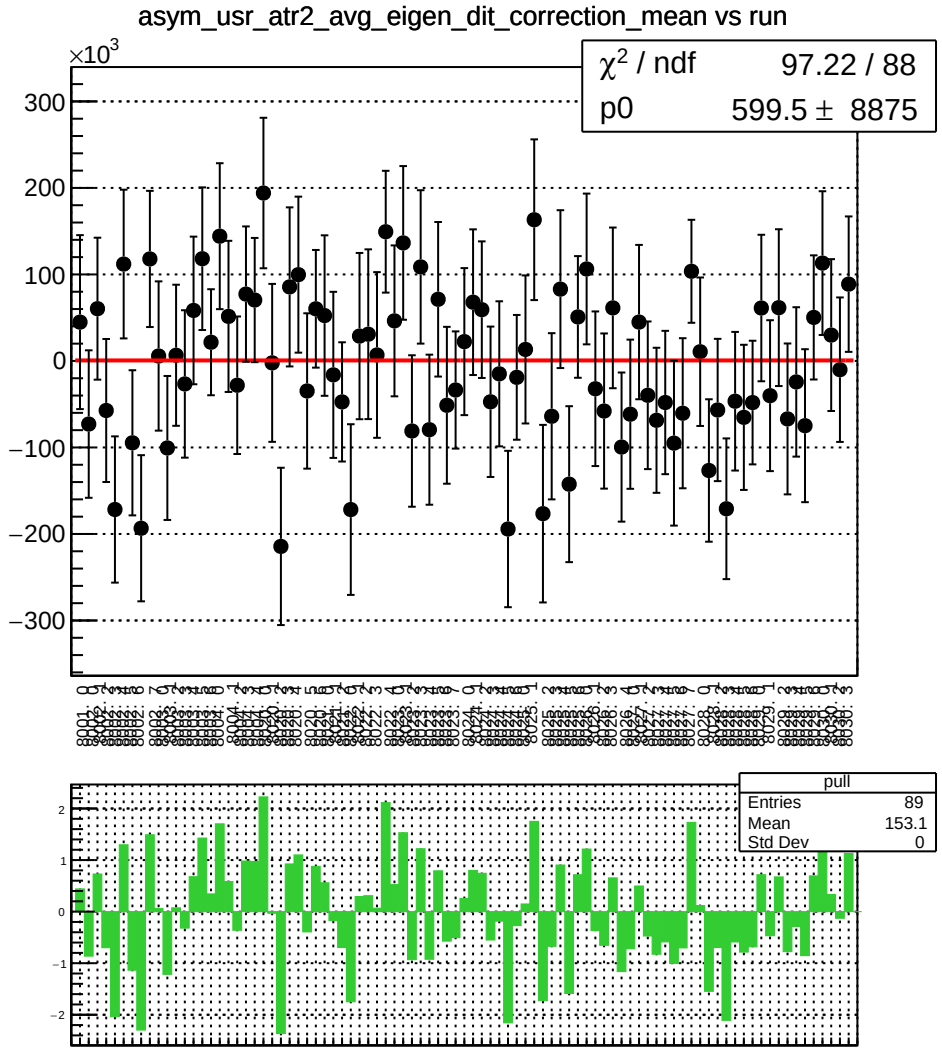

pull1D
Entries 89
Mean −0.02351
Std Dev 1.045

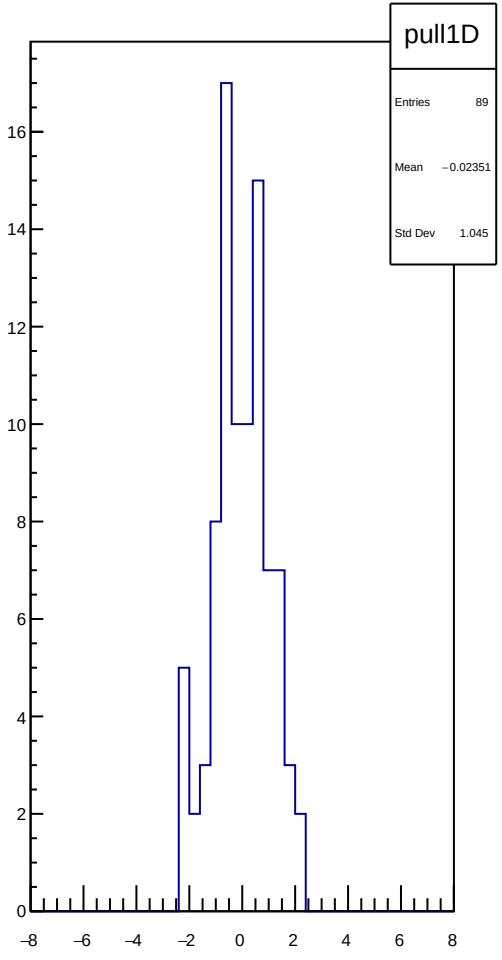

asym_usr_atr2_avg_dit_correction_rms vs run
χ² / ndf 4700 / 88
p0 8254 ± 6.275
10000
9500
9000
8500
8000
7500

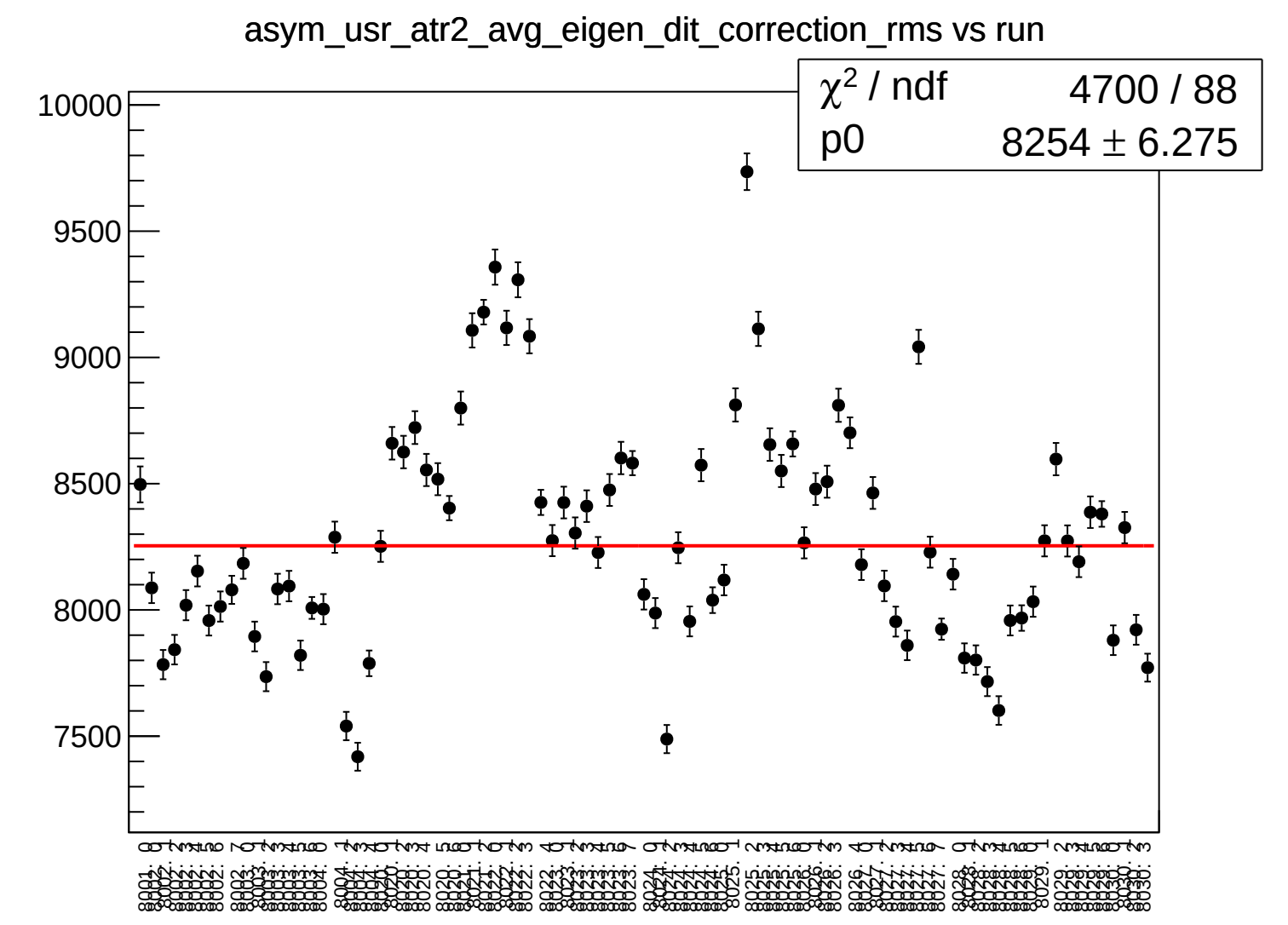

eigen_dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 81.95 / 88
p0 −41.66 ± 1832
pull
Entries 89
Mean −5313
Std Dev 0

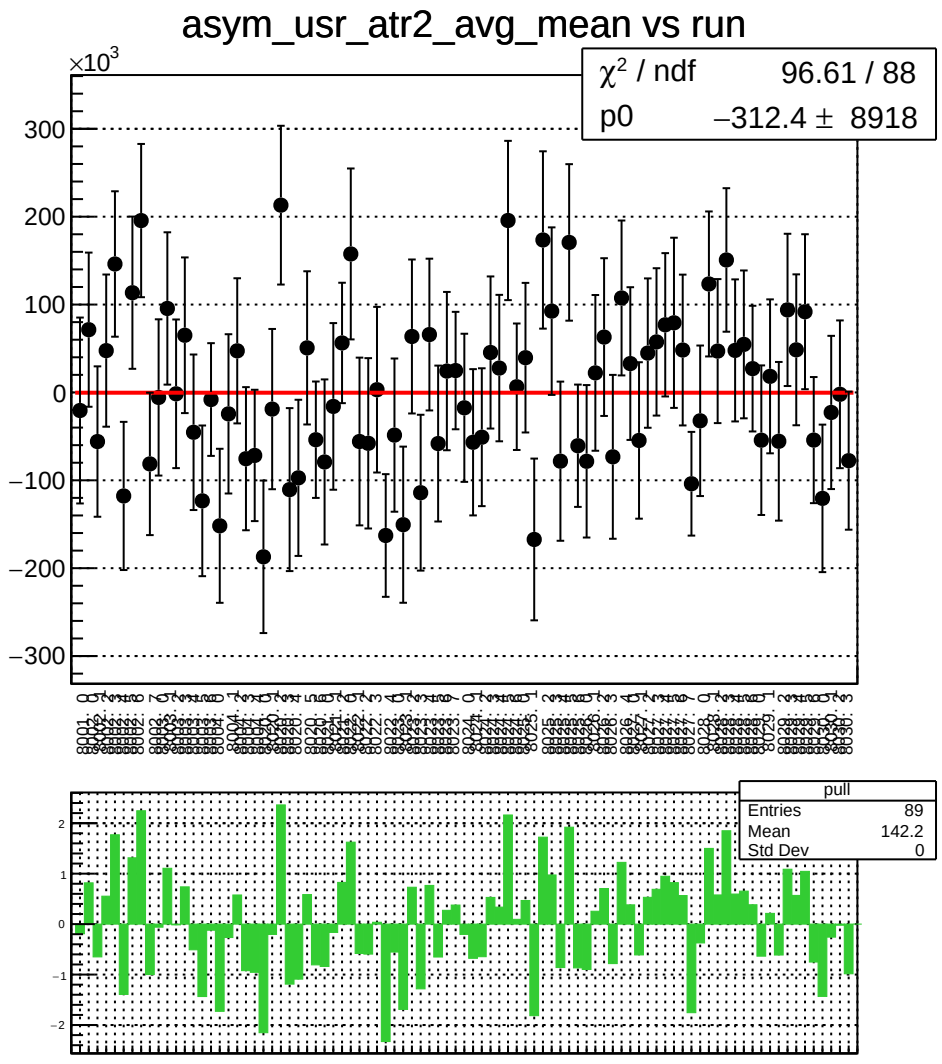

pull1D
Entries 89
Mean 0.0003378
Std Dev 0.9596

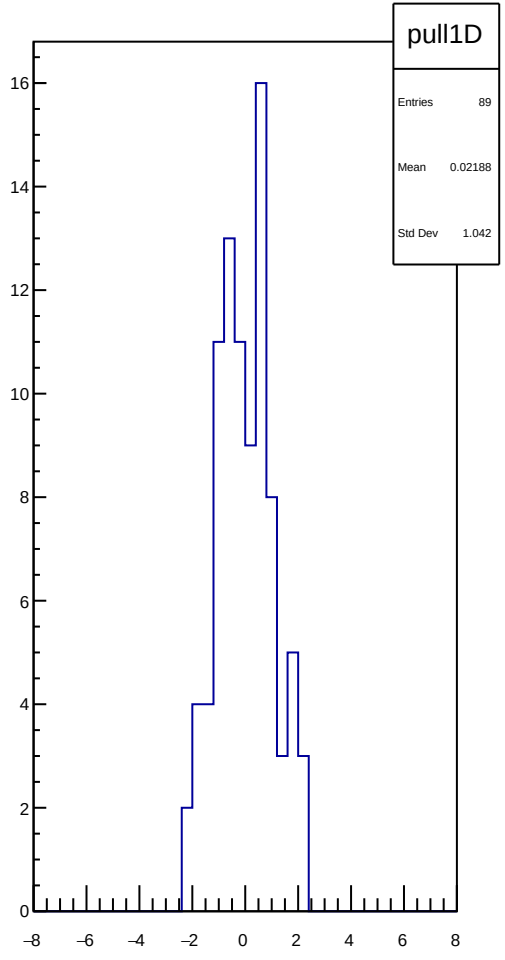

eigen_dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 400.3 / 88
p0 1706 ± 1.296
1800
1750
1700
1650
1600

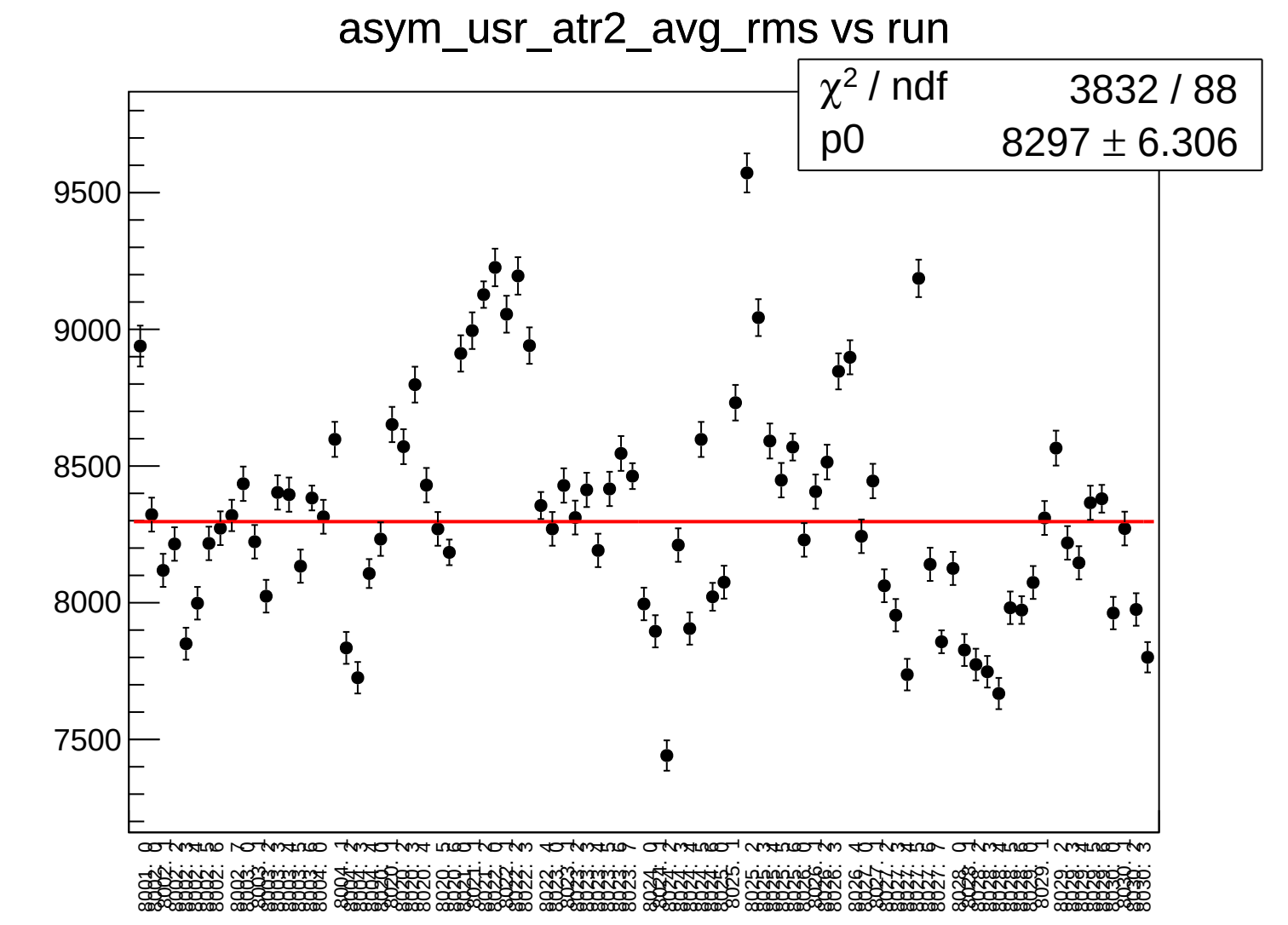

asym_usr_atr2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 97.22 / 88
p0 599.5 ± 8875
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean 153.1
Std Dev 0
2
1
0
−1
−2

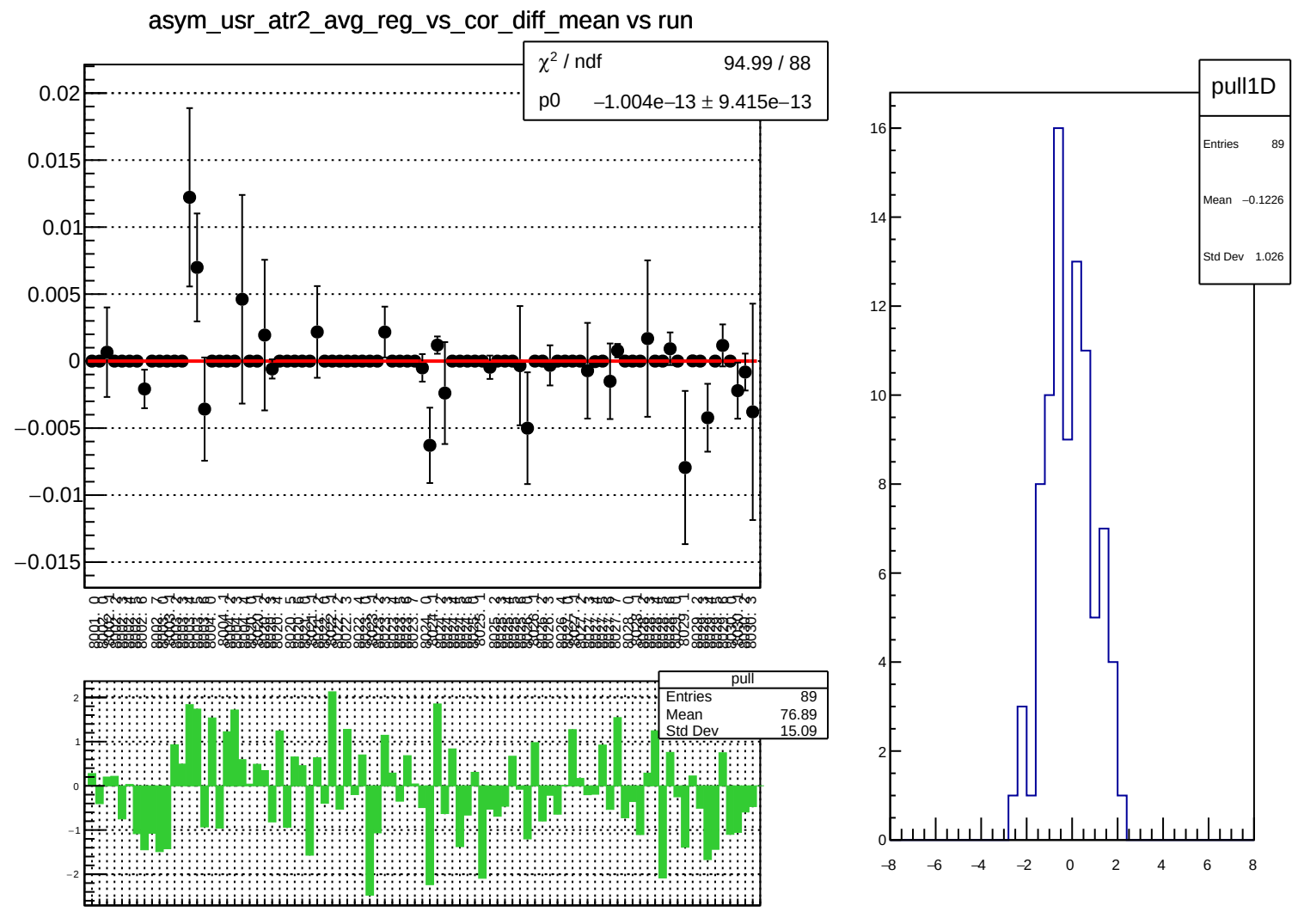

pull1D
Entries 89
Mean −0.02351
Std Dev 1.045
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

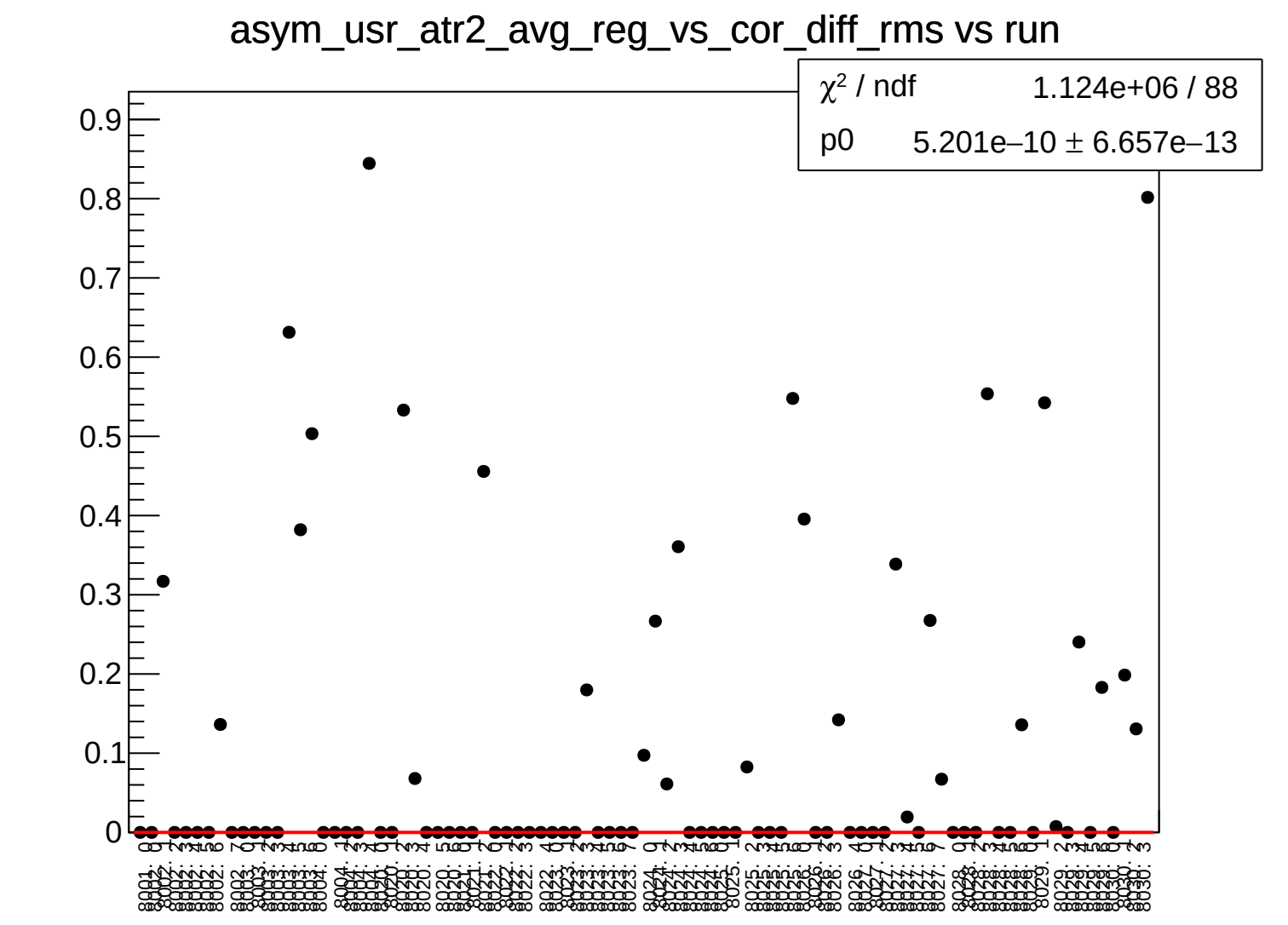

asym_usr_atr2_avg_eigen_dit_correction_rms vs run
χ² / ndf 4700 / 88
p0 8254 ± 6.275
10000
9500
9000
8500
8000
7500

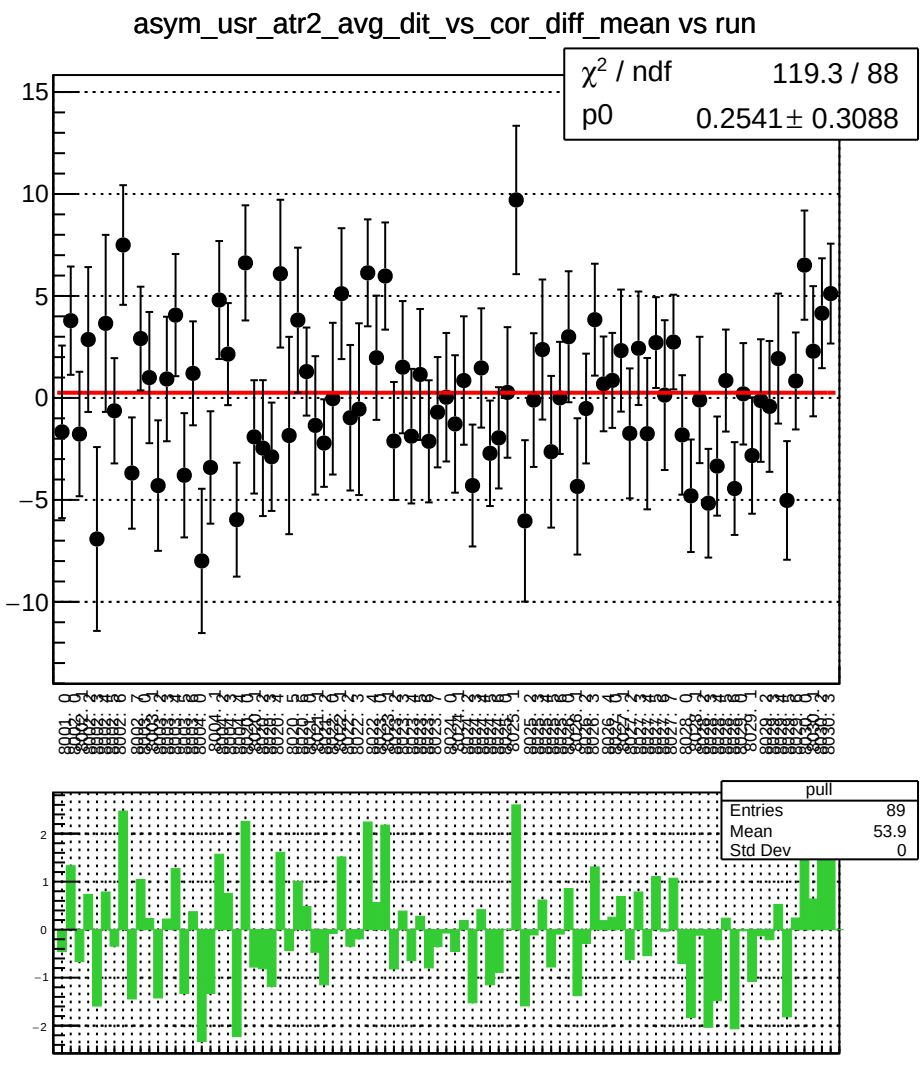

asym_usr_atr2_avg_mean vs run
×10^3
χ² / ndf 96.61 / 88
p0 −312.4 ± 8918
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean 142.2
Std Dev 0
2
1
0
−1
−2

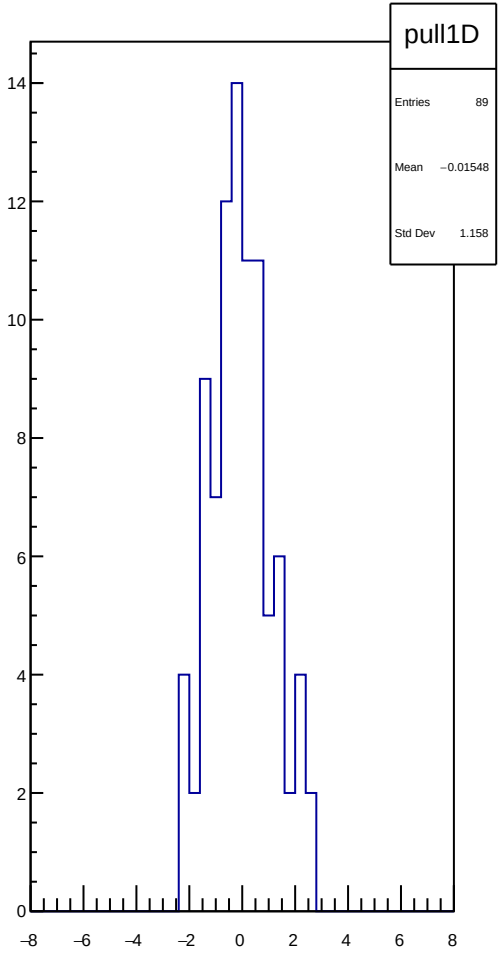

pull1D
Entries 89
Mean 0.02188
Std Dev 1.042
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

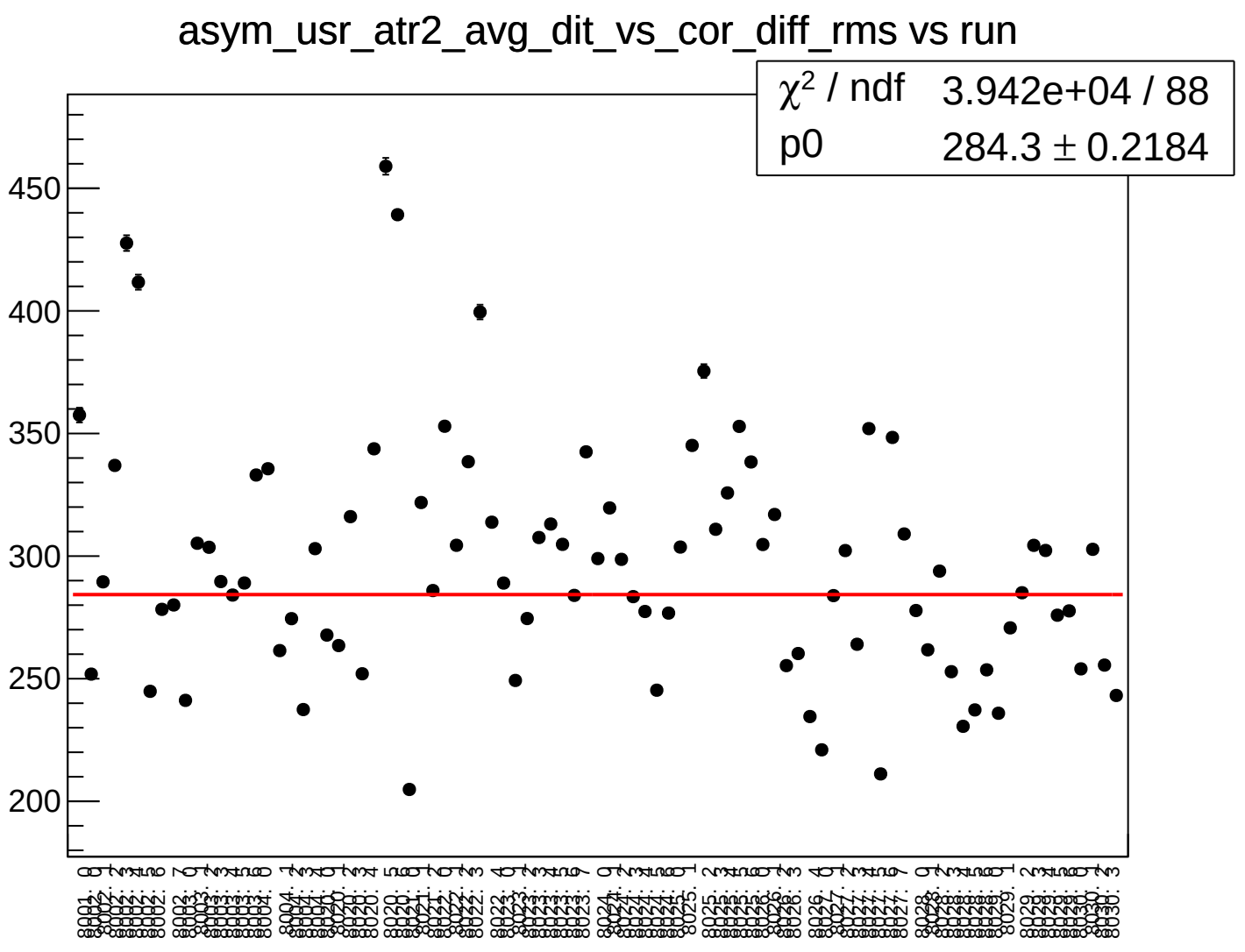

asym_usr_atr2_avg_rms vs run
χ² / ndf 3832 / 88
p0 8297 ± 6.306
9500
9000
8500
8000
7500

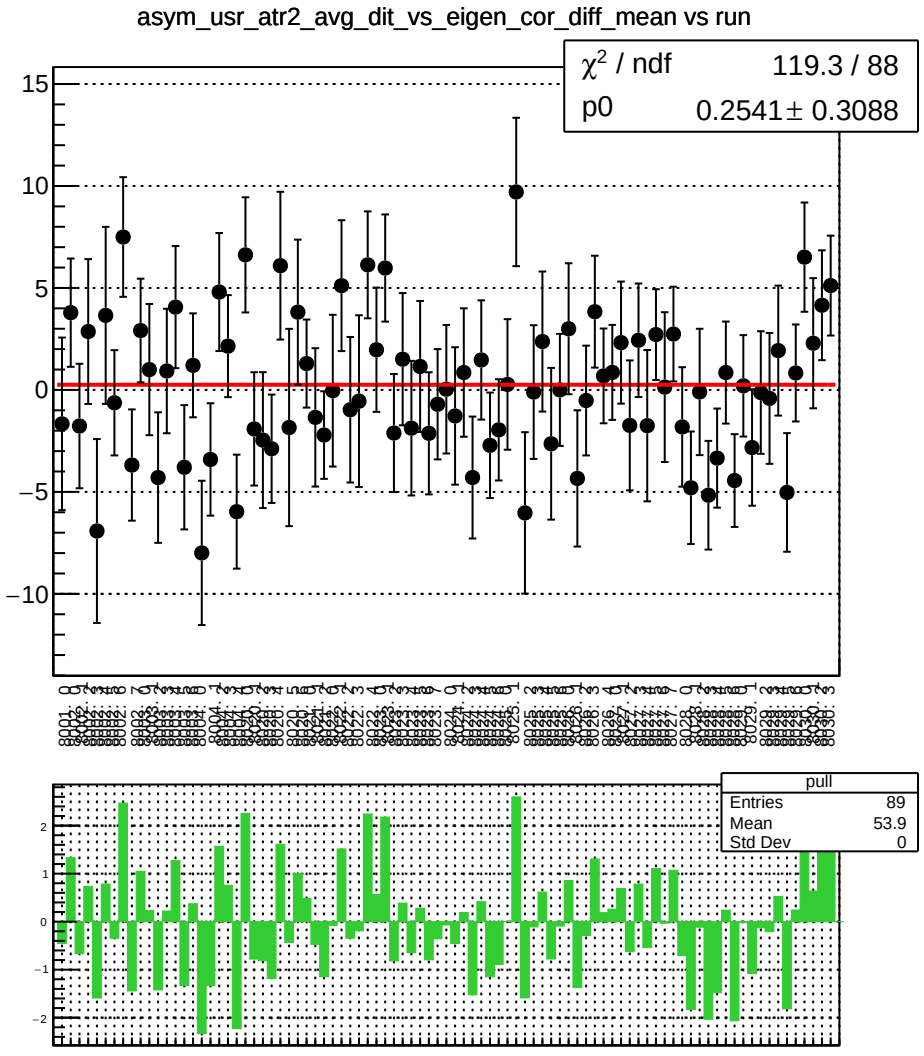

asym_usr_atr2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 94.99 / 88
p0 −1.004e−13 ± 9.415e−13
pull
Entries 89
Mean 76.89
Std Dev 15.09
pull1D
Entries 89
Mean −0.1226
Std Dev 1.026

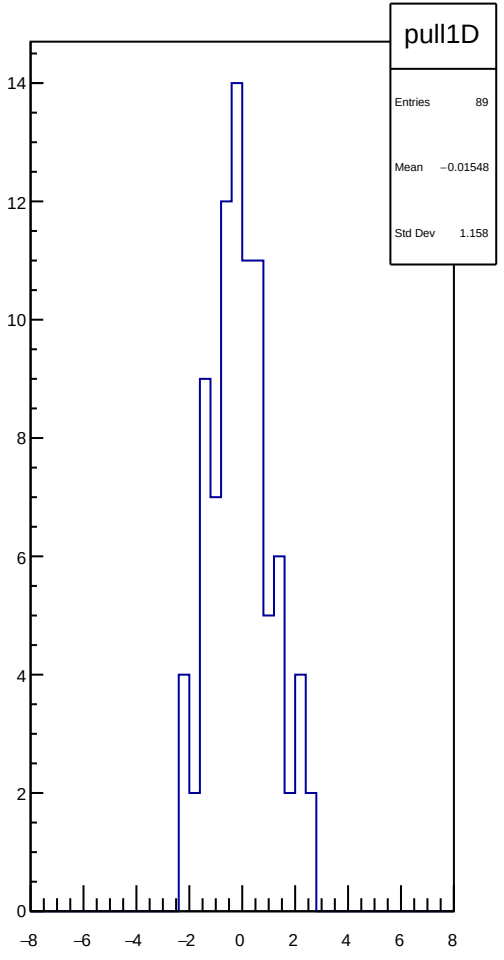

asym_usr_atr2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.124e+06 / 88
p0 5.201e−10 ± 6.657e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

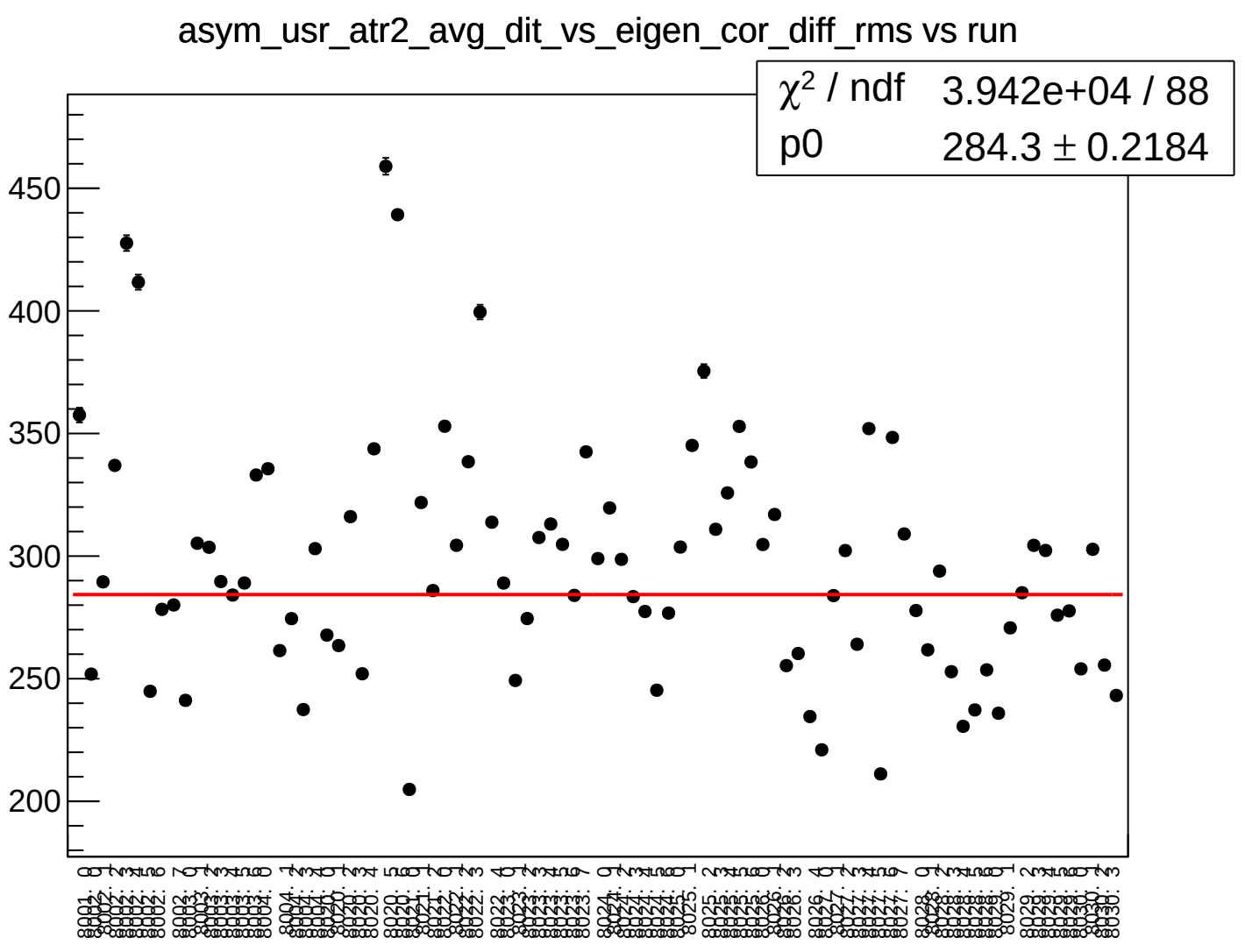

asym_usr_atr2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 119.3 / 88
p0 0.2541 ± 0.3088
15
10
5
0
−5
−10
pull
Entries 89
Mean 53.9
Std Dev 0
2
1
0
−1
−2

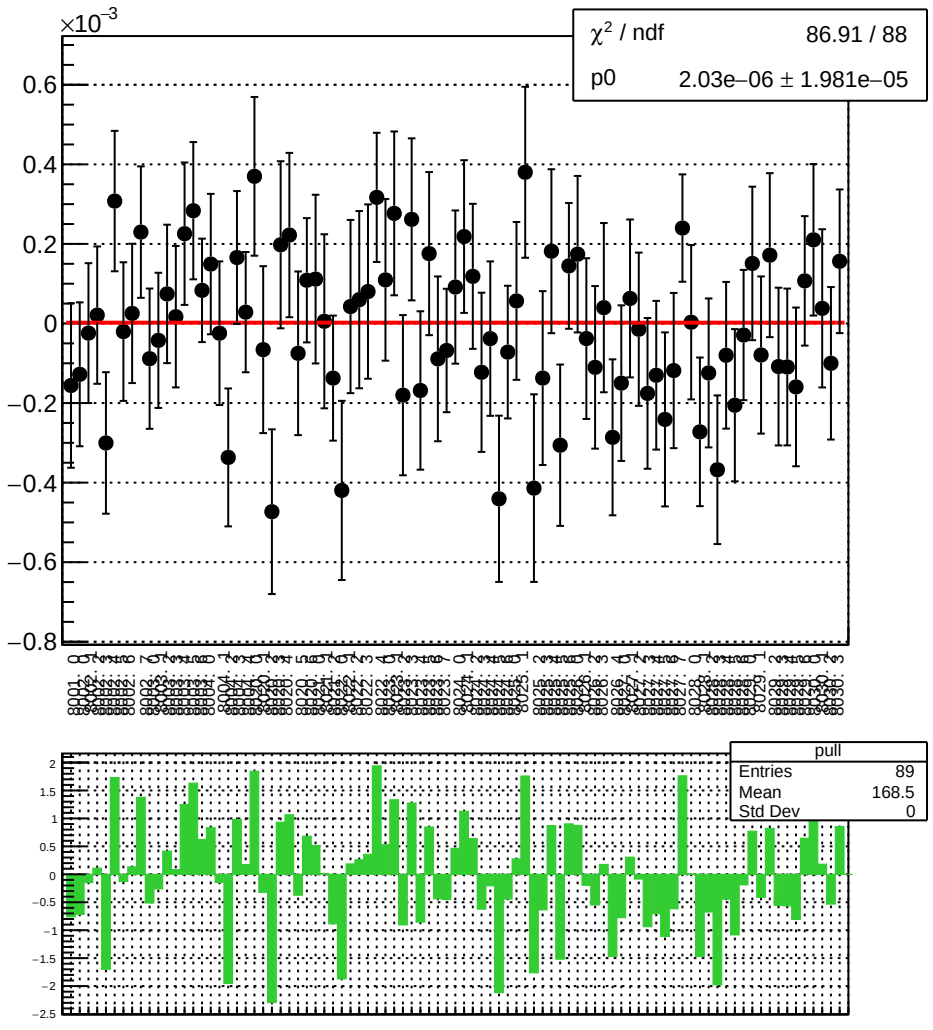

pull1D
Entries 89
Mean −0.01548
Std Dev 1.158
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

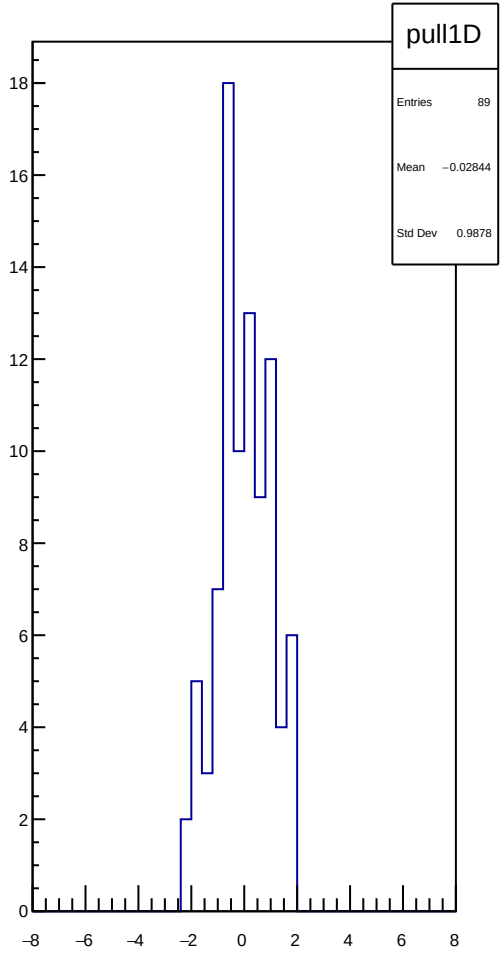

asym_usr_atr2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.942e+04 / 88
p0 284.3 ± 0.2184
450
400
350
300
250
200

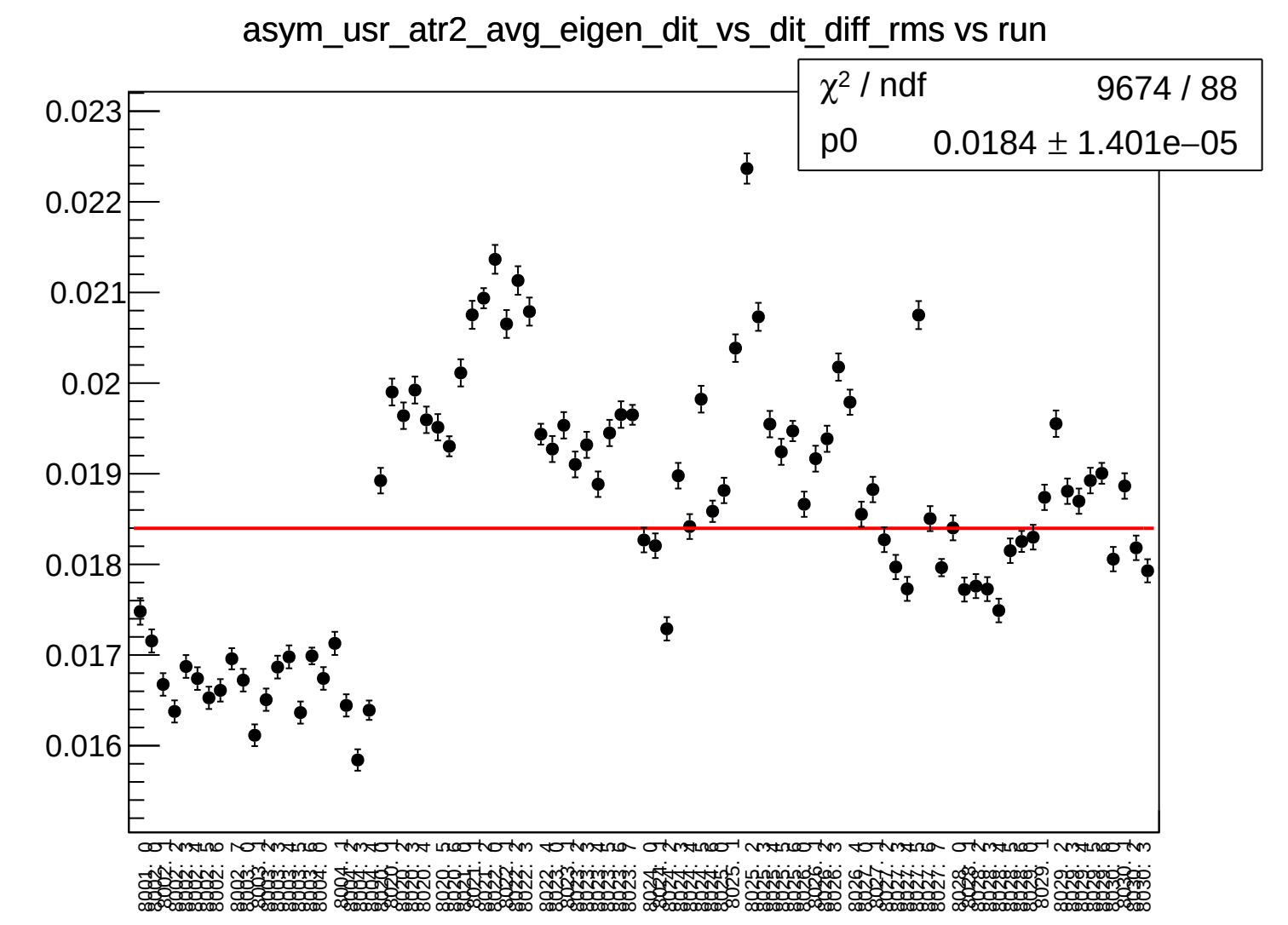

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 119.3 / 88
p0 0.2541 ± 0.3088
pull
Entries 89
Mean 53.9
Std Dev 0

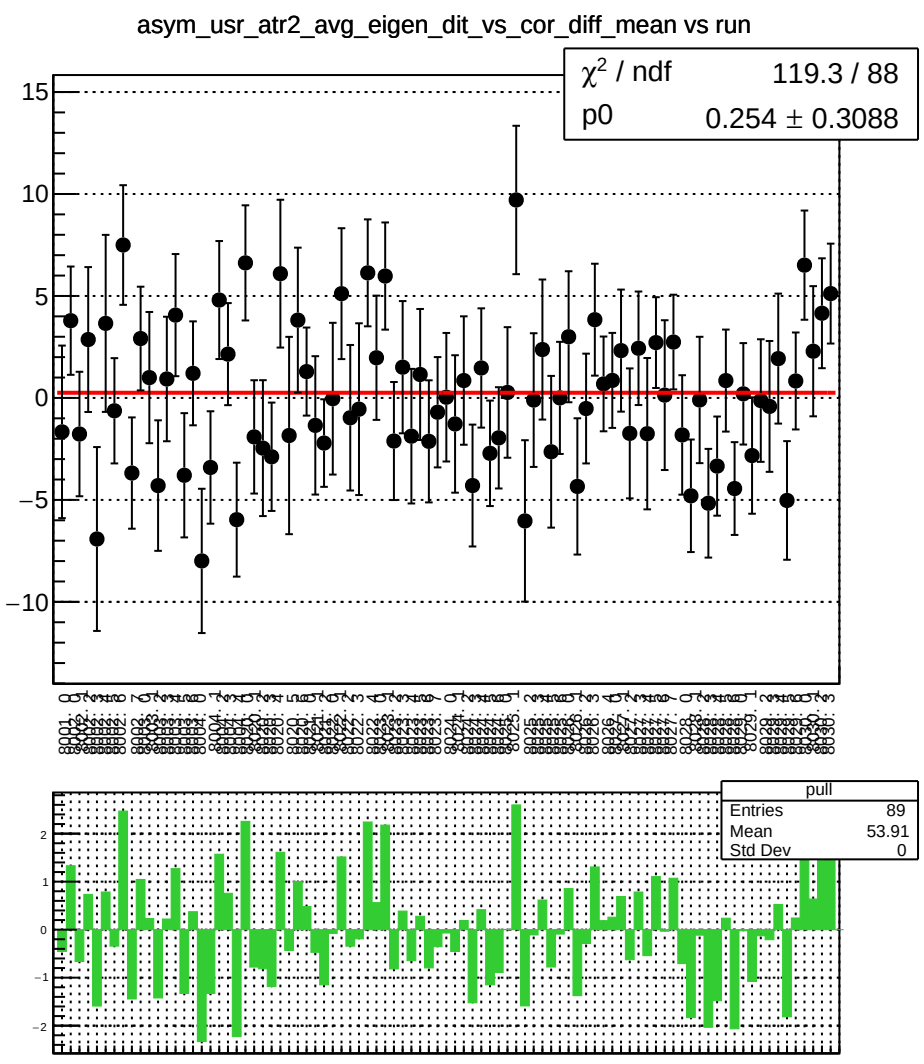

pull1D
Entries 89
Mean −0.01548
Std Dev 1.158

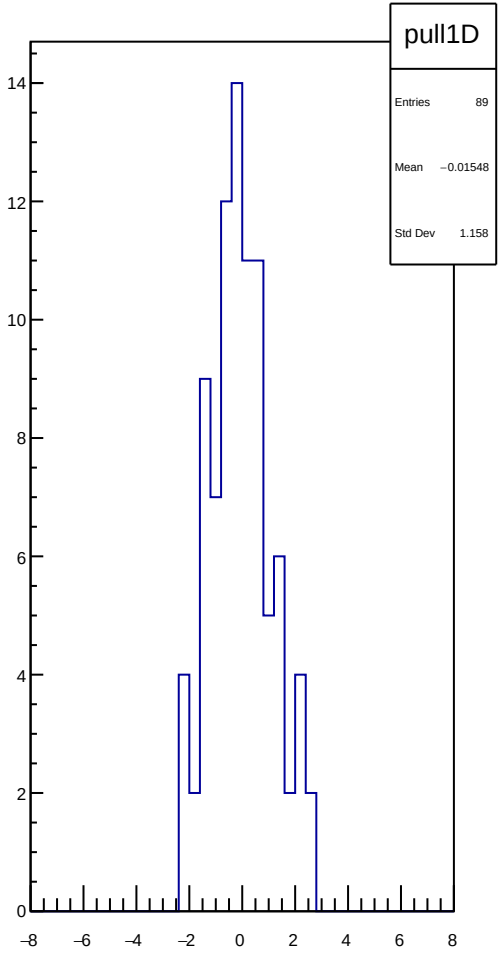

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.942e+04 / 88
p0 284.3 ± 0.2184
450
400
350
300
250
200

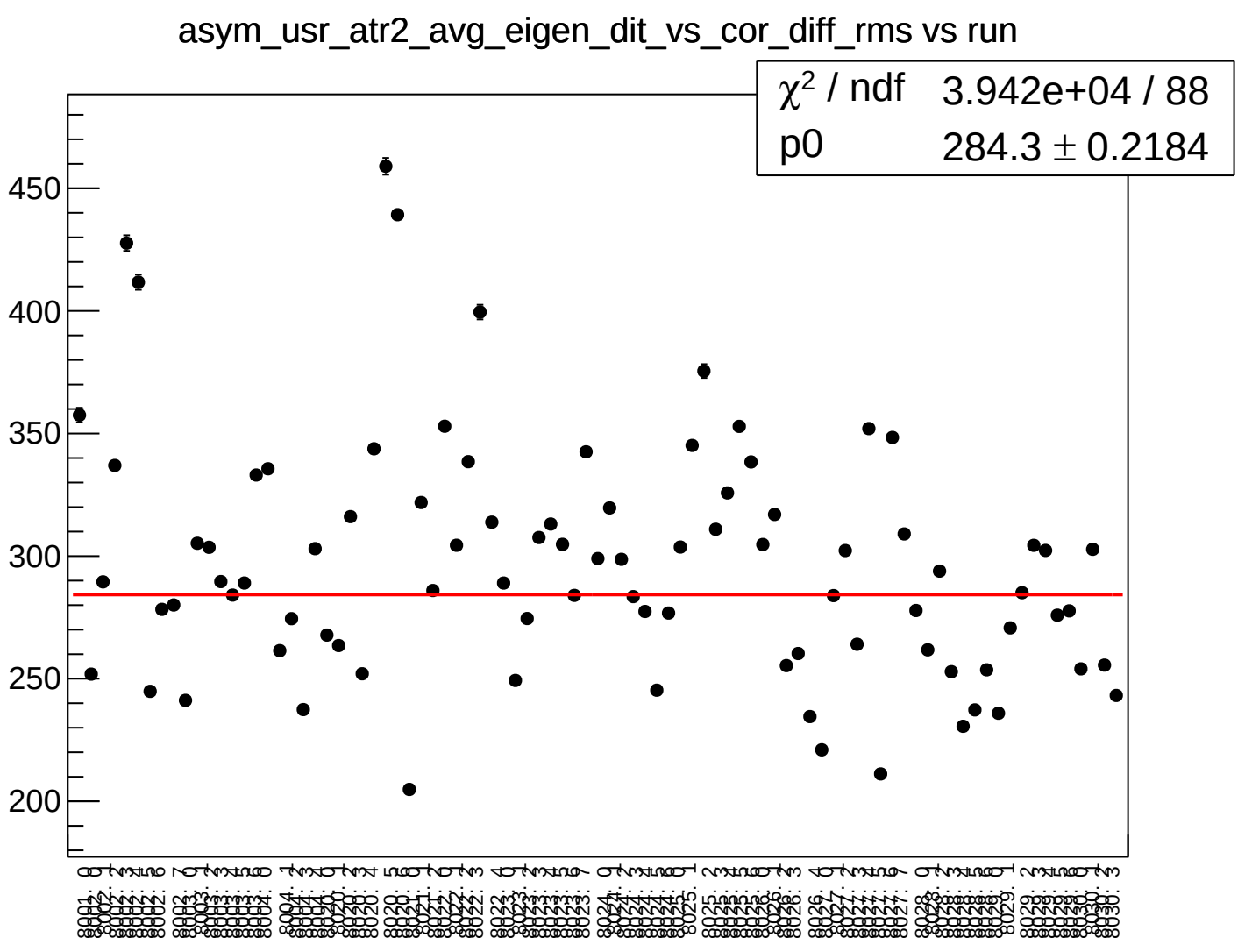

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 86.91 / 88
p0 2.03e−06 ± 1.981e−05
pull
Entries 89
Mean 168.5
Std Dev 0

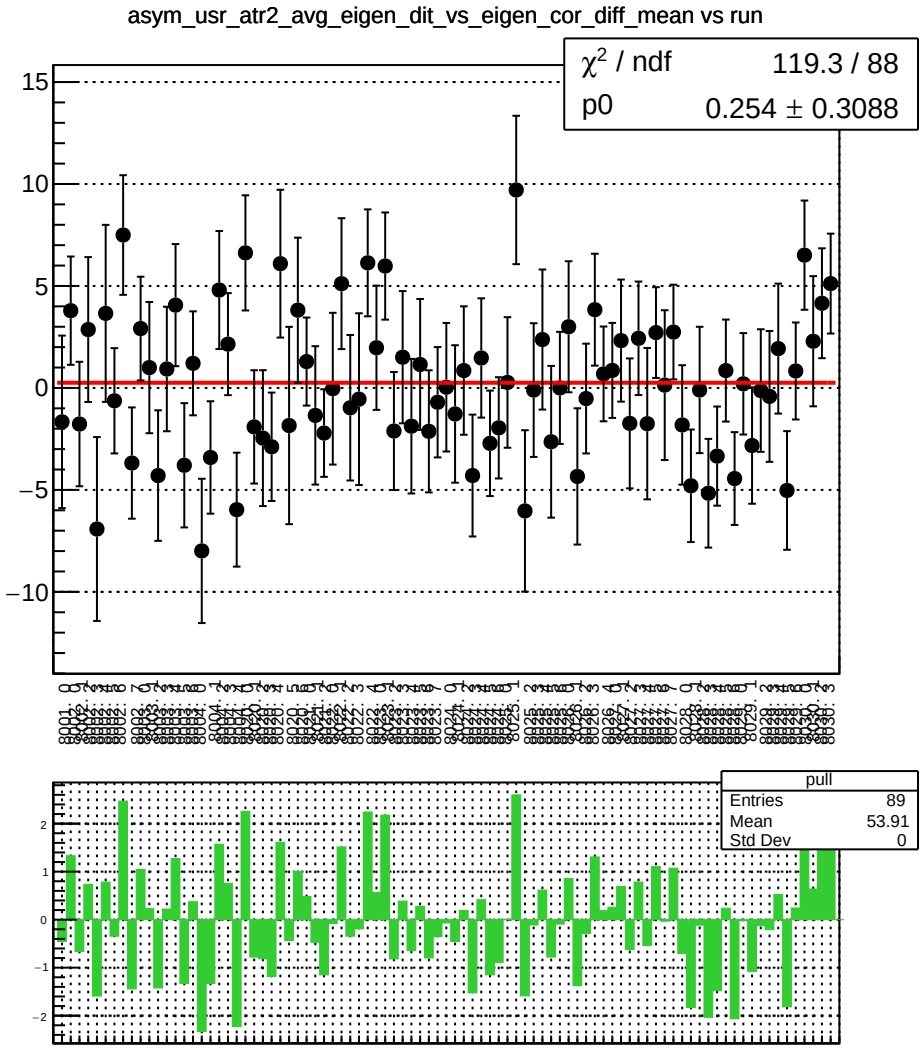

pull1D
Entries 89
Mean −0.02844
Std Dev 0.9878

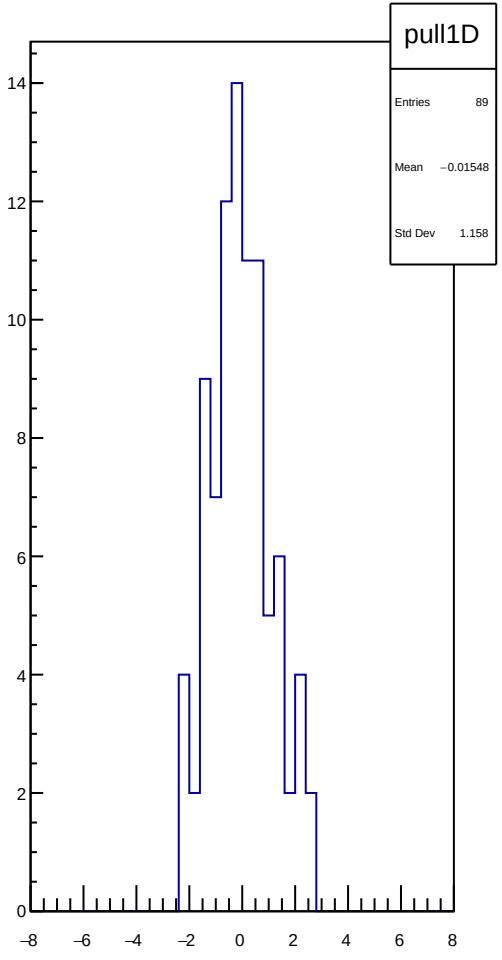

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9674 / 88
p0 0.0184 ± 1.401e−05
0.023
0.022
0.021
0.02
0.019
0.018
0.017
0.016

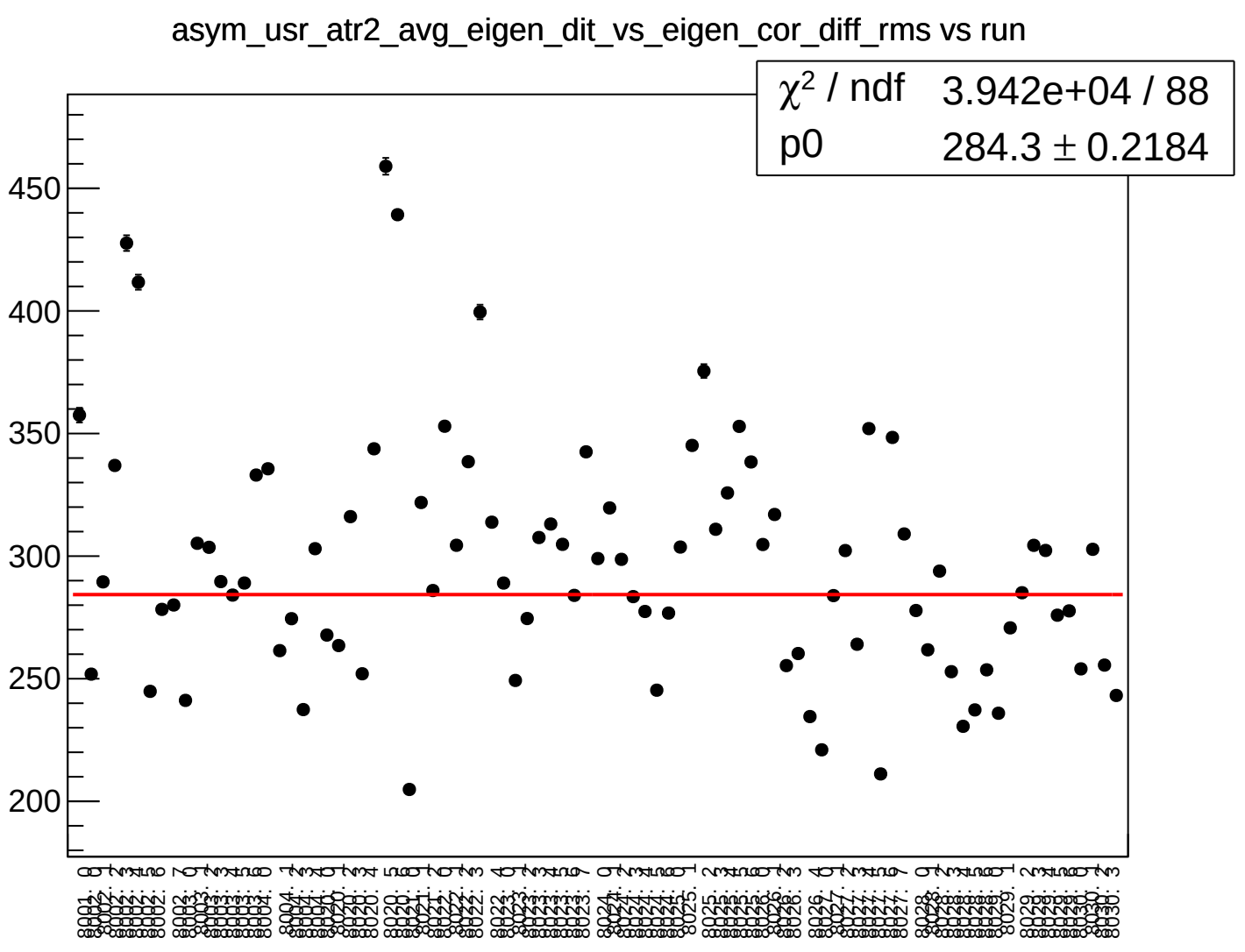

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 119.3 / 88
p0 0.254 ± 0.3088
pull
Entries 89
Mean 53.91
Std Dev 0

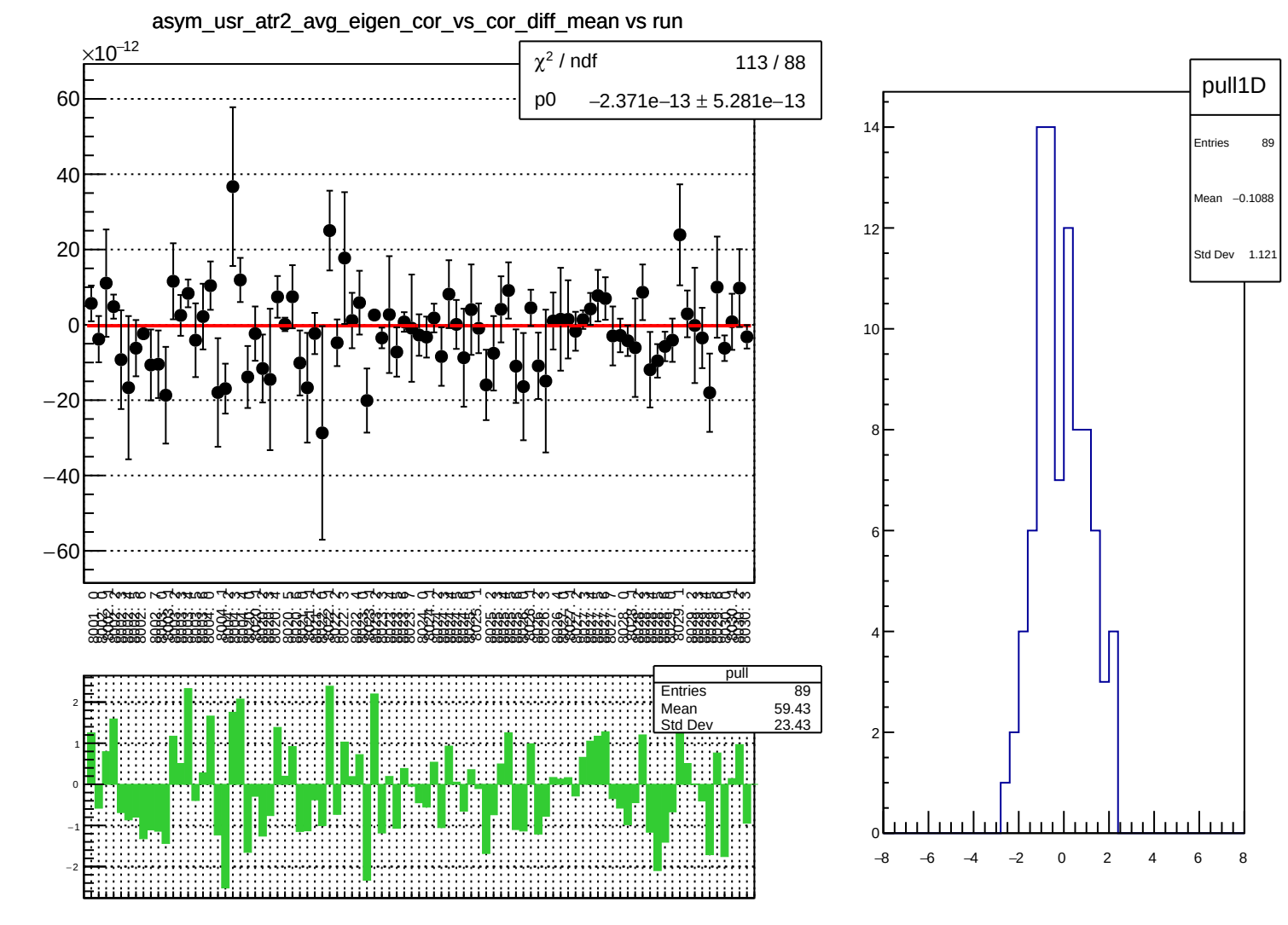

pull1D
Entries 89
Mean −0.01548
Std Dev 1.158

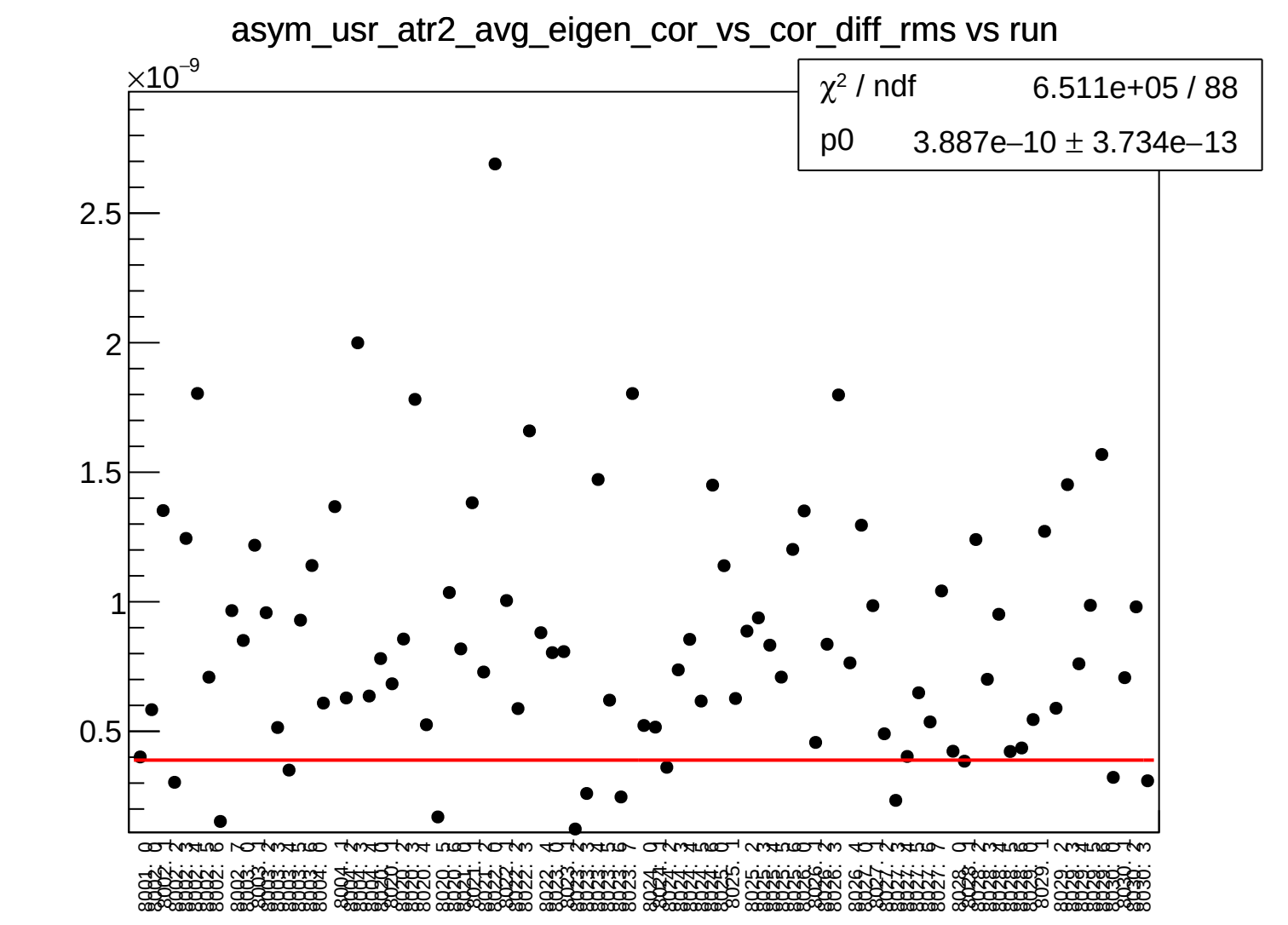

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.942e+04 / 88
p0 284.3 ± 0.2184
450
400
350
300
250
200

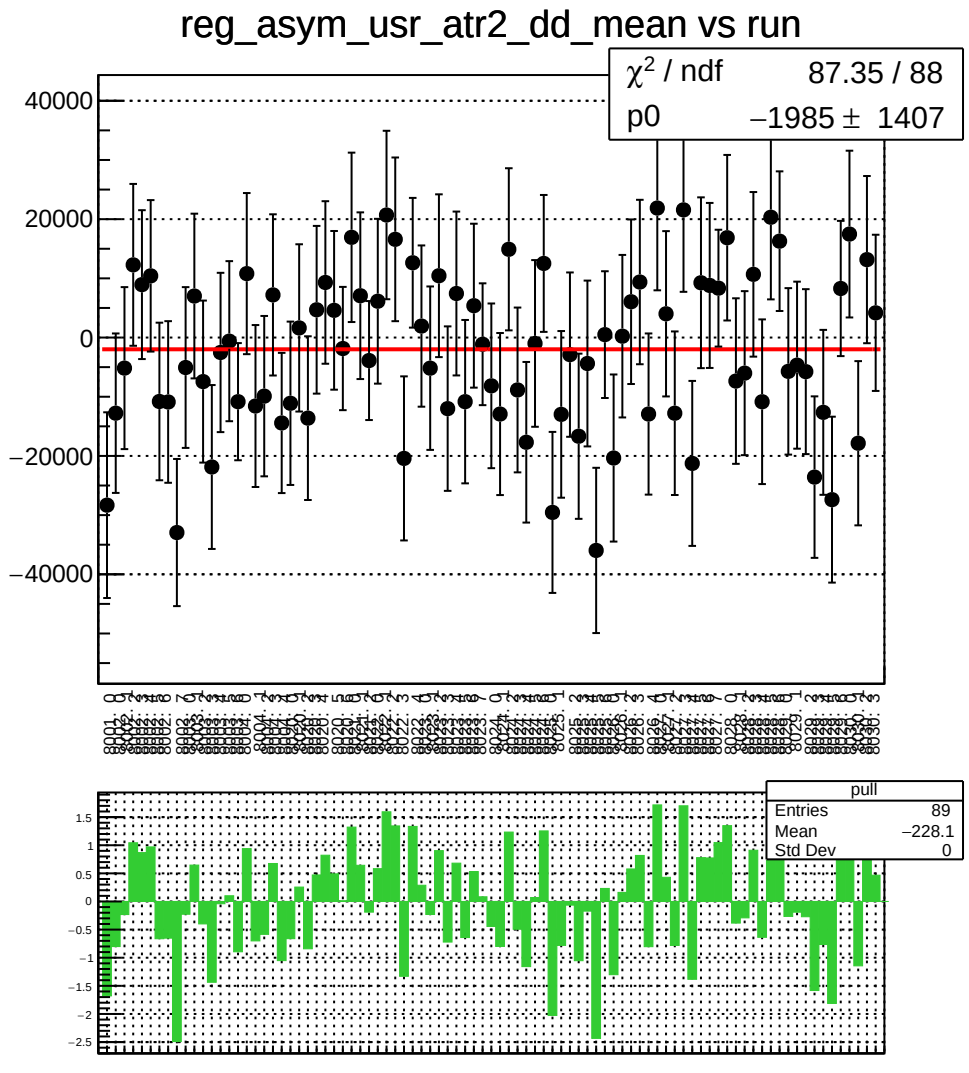

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 119.3 / 88
p0 0.254 ± 0.3088
pull
Entries 89
Mean 53.91
Std Dev 0

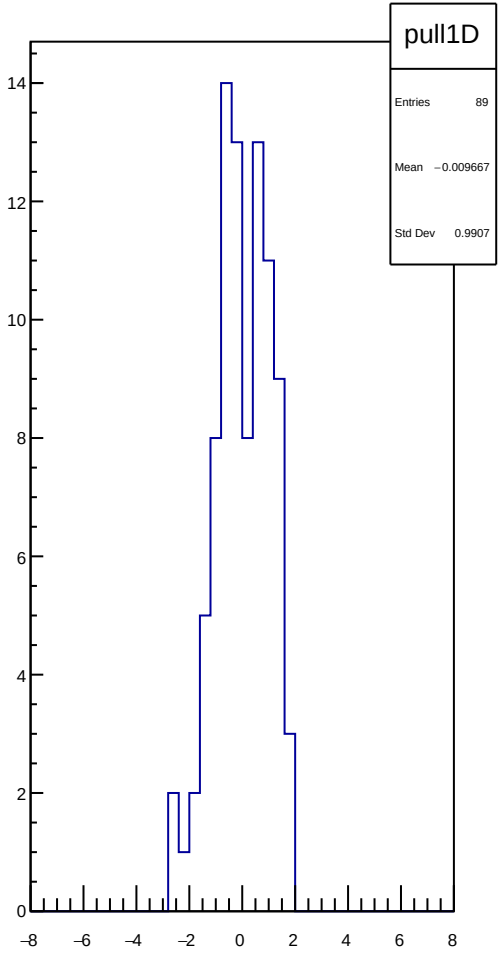

pull1D
Entries 89
Mean −0.01548
Std Dev 1.158

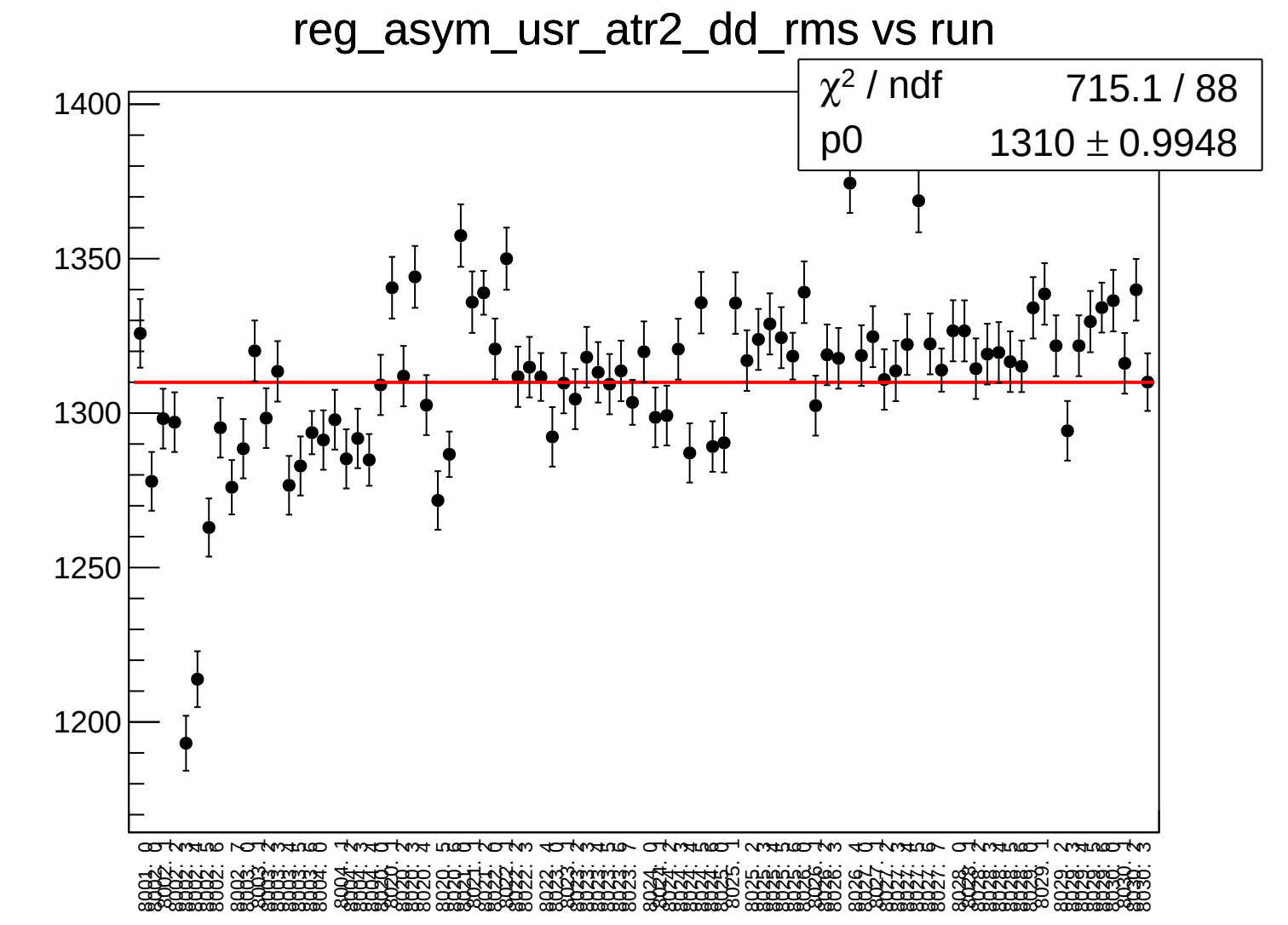

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.942e+04 / 88
p0 284.3 ± 0.2184
450
400
350
300
250
200

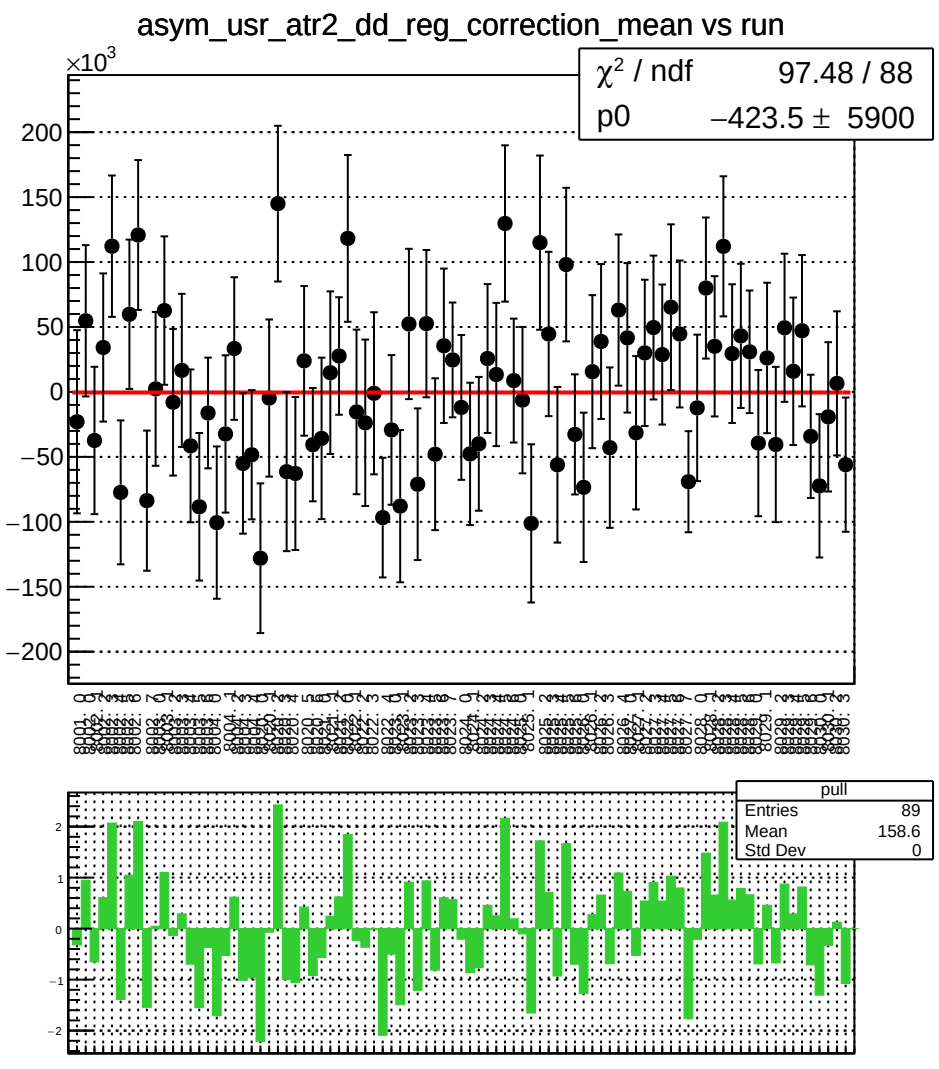

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 113 / 88
p0 −2.371e−13 ± 5.281e−13
pull
Entries 89
Mean 59.43
Std Dev 23.43
pull1D
Entries 89
Mean −0.1088
Std Dev 1.121

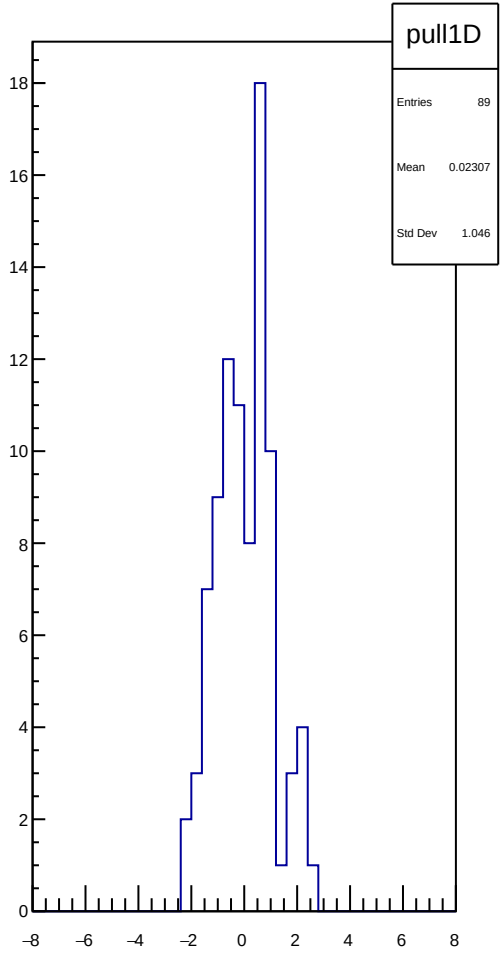

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.511e+05 / 88
p0 3.887e−10 ± 3.734e−13
2.5
2
1.5
1
0.5

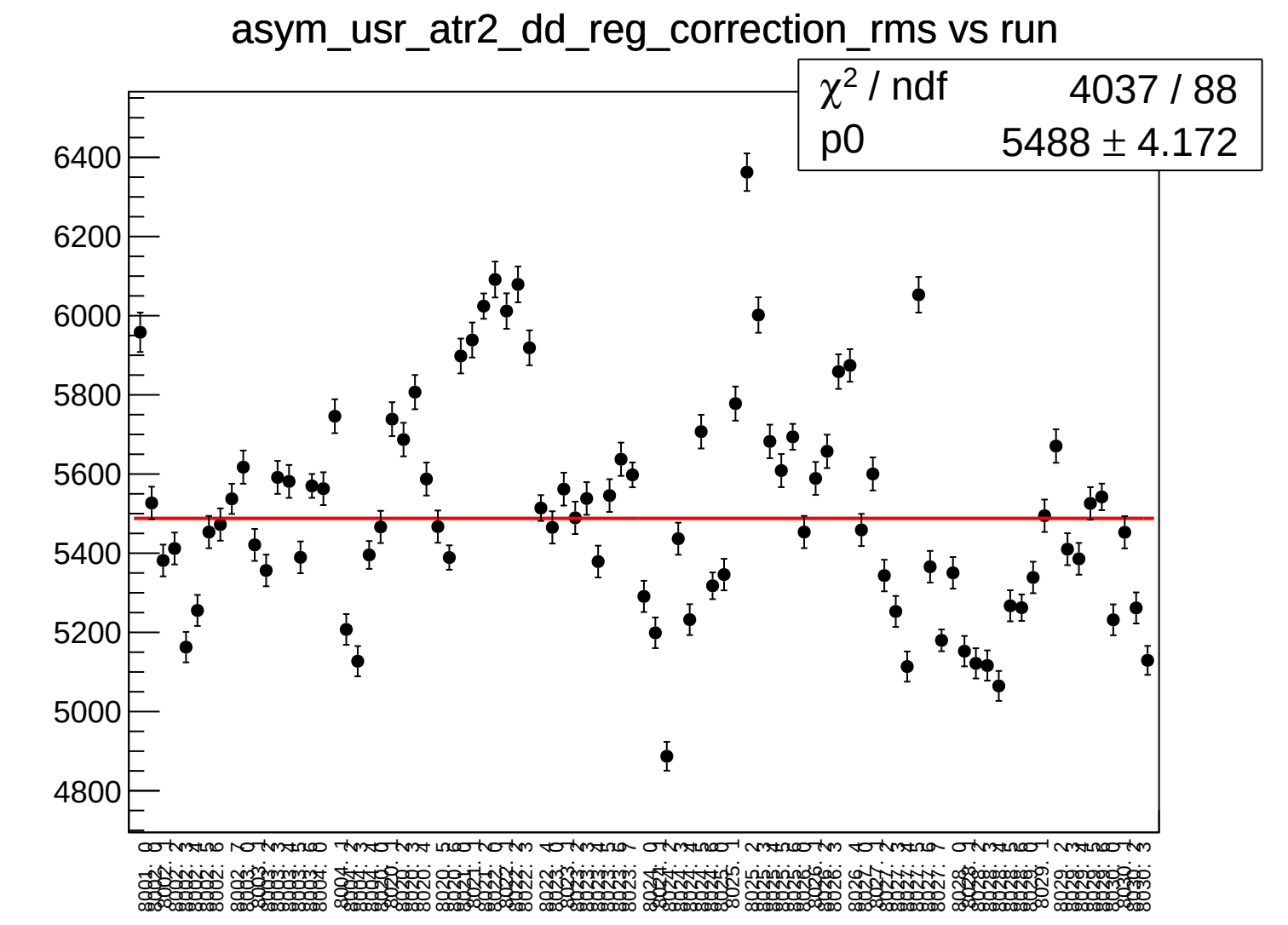

reg_asym_usr_atr2_dd_mean vs run
χ² / ndf 87.35 / 88
p0 −1985 ± 1407
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −228.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

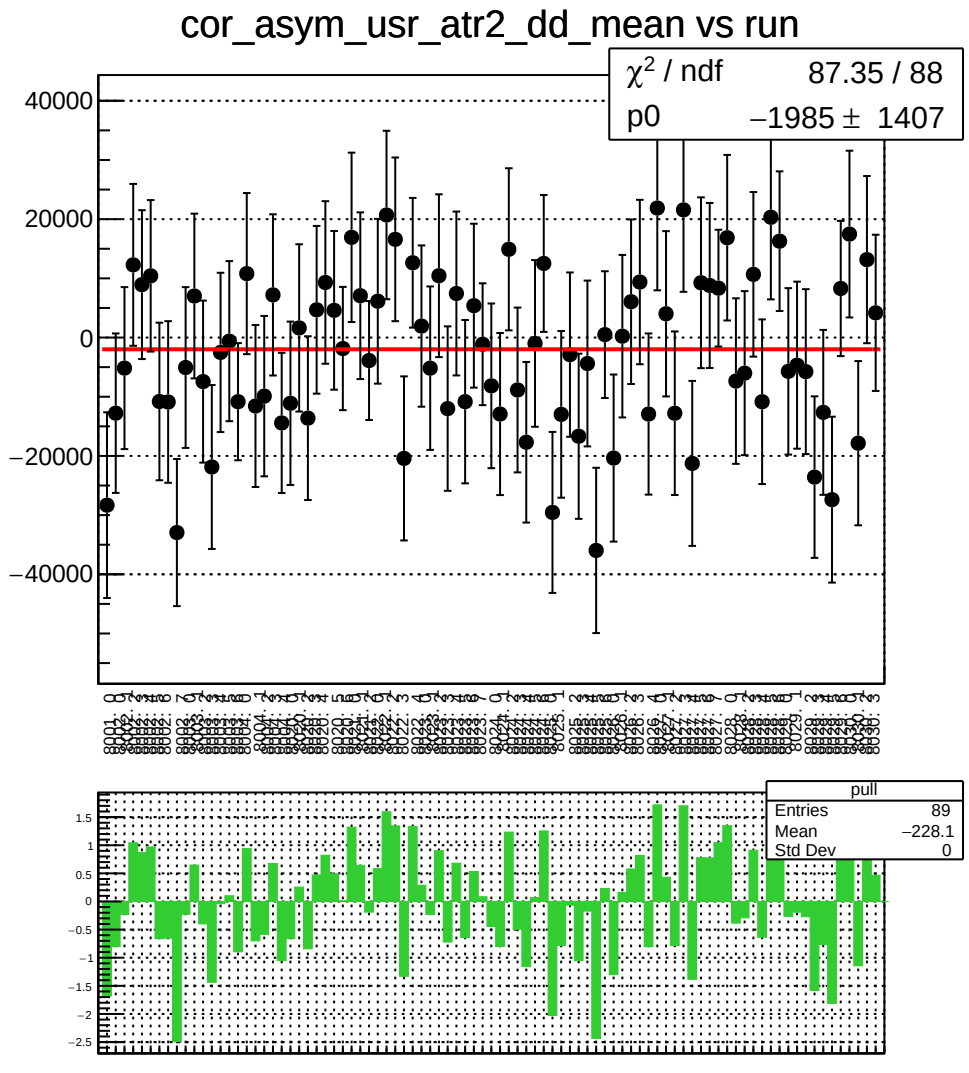

pull1D
Entries 89
Mean −0.009667
Std Dev 0.9907
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

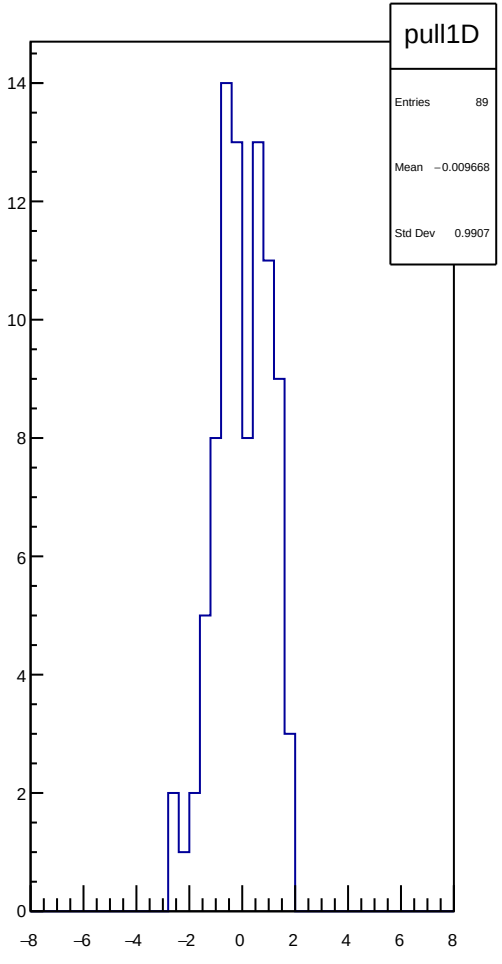

reg_asym_usr_atr2_dd_rms vs run
χ² / ndf 715.1 / 88
p0 1310 ± 0.9948
1400
1350
1300
1250
1200

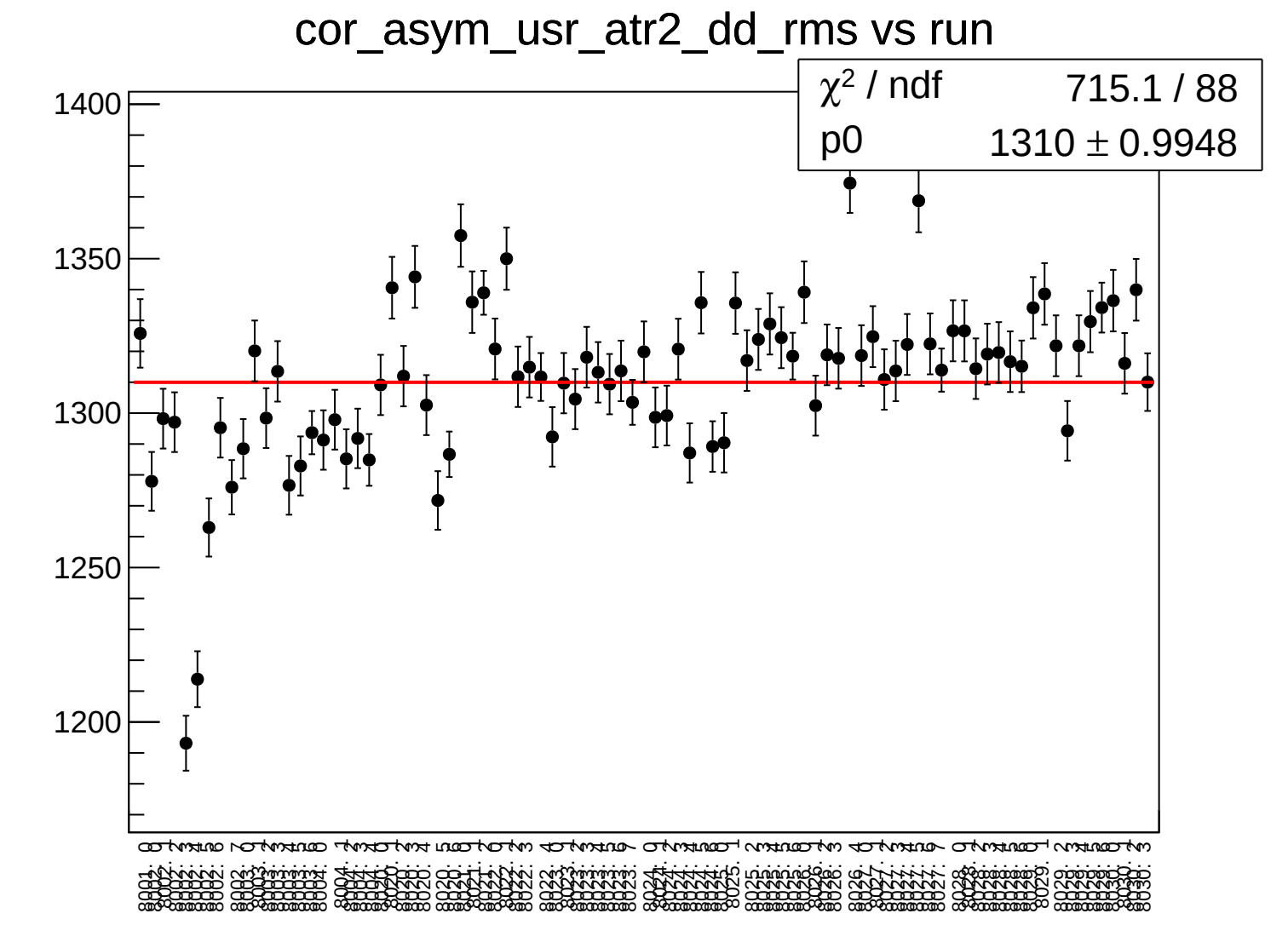

asym_usr_atr2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 97.48 / 88
p0 −423.5 ± 5900
pull
Entries 89
Mean 158.6
Std Dev 0

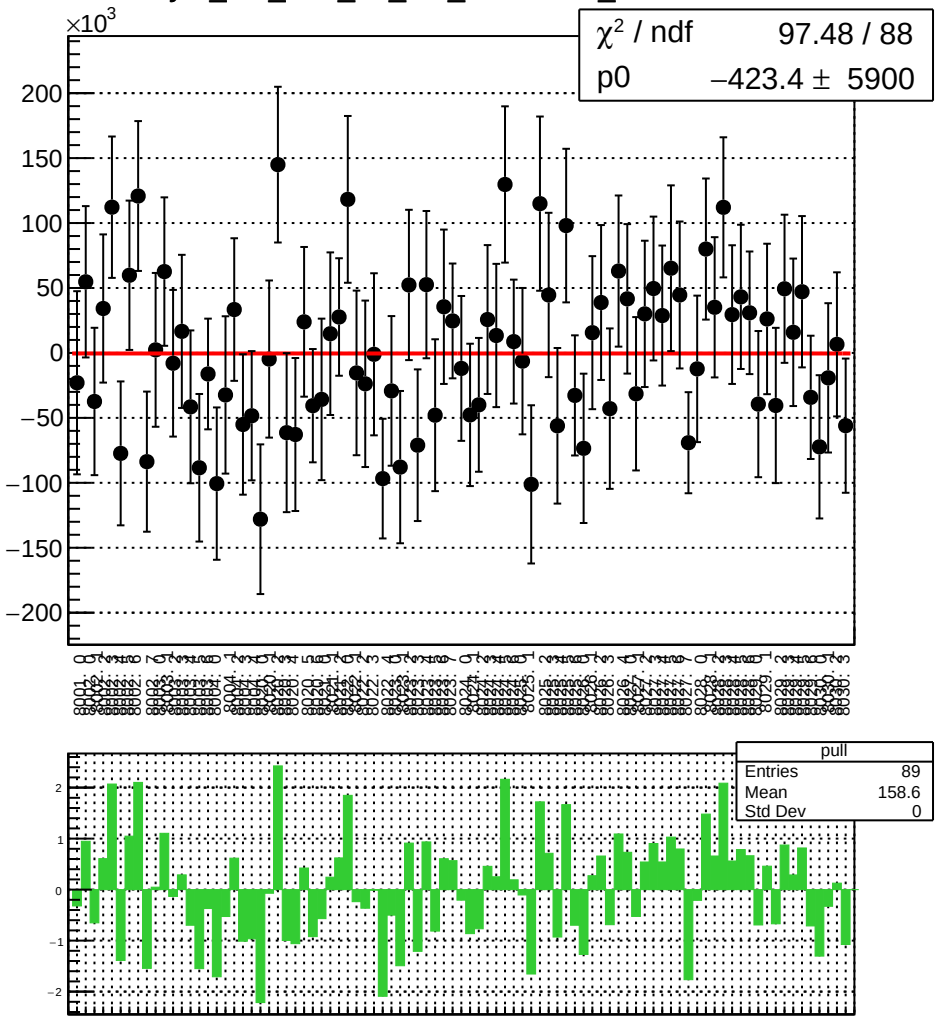

pull1D
Entries 89
Mean 0.02307
Std Dev 1.046

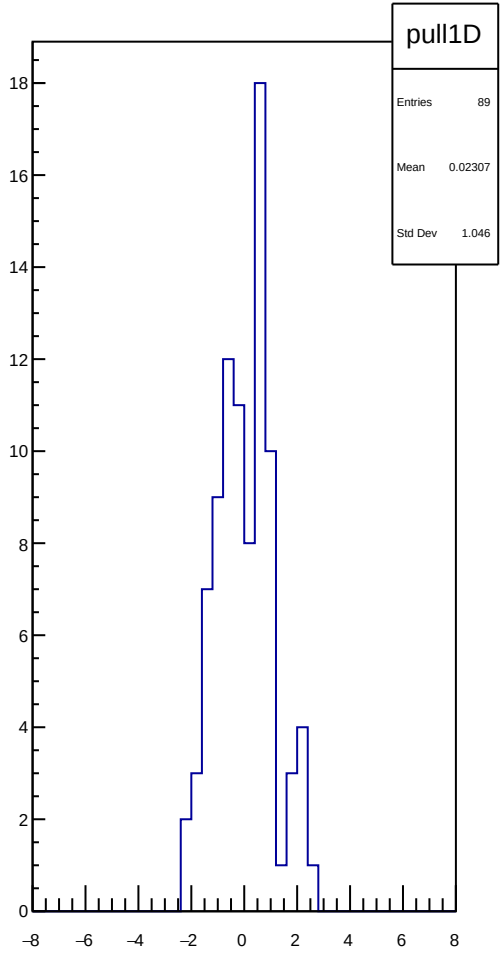

asym_usr_atr2_dd_reg_correction_rms vs run
χ² / ndf 4037 / 88
p0 5488 ± 4.172
6400
6200
6000
5800
5600
5400
5200
5000
4800

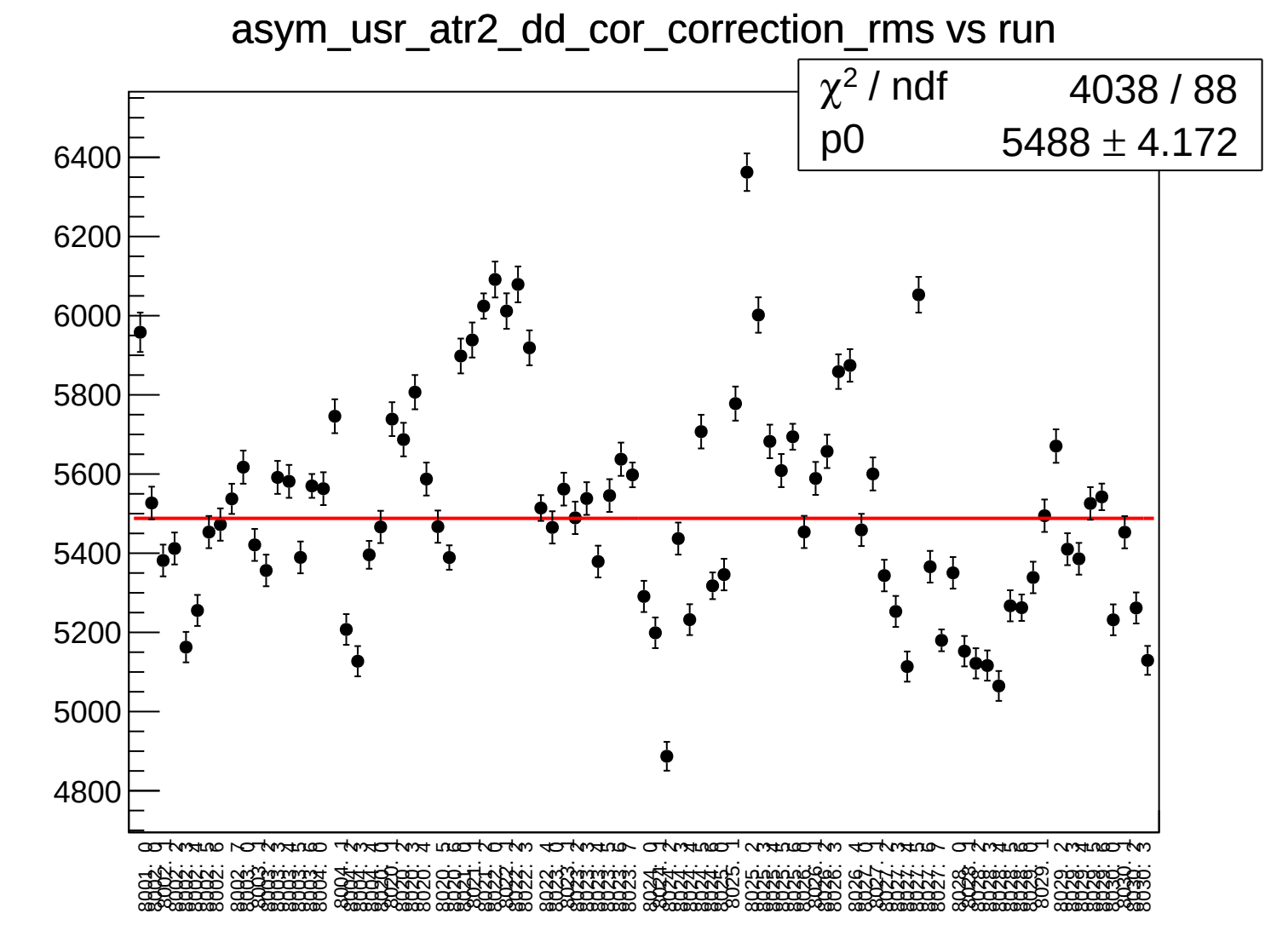

cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 87.35 / 88
p0 −1985 ± 1407
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −228.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

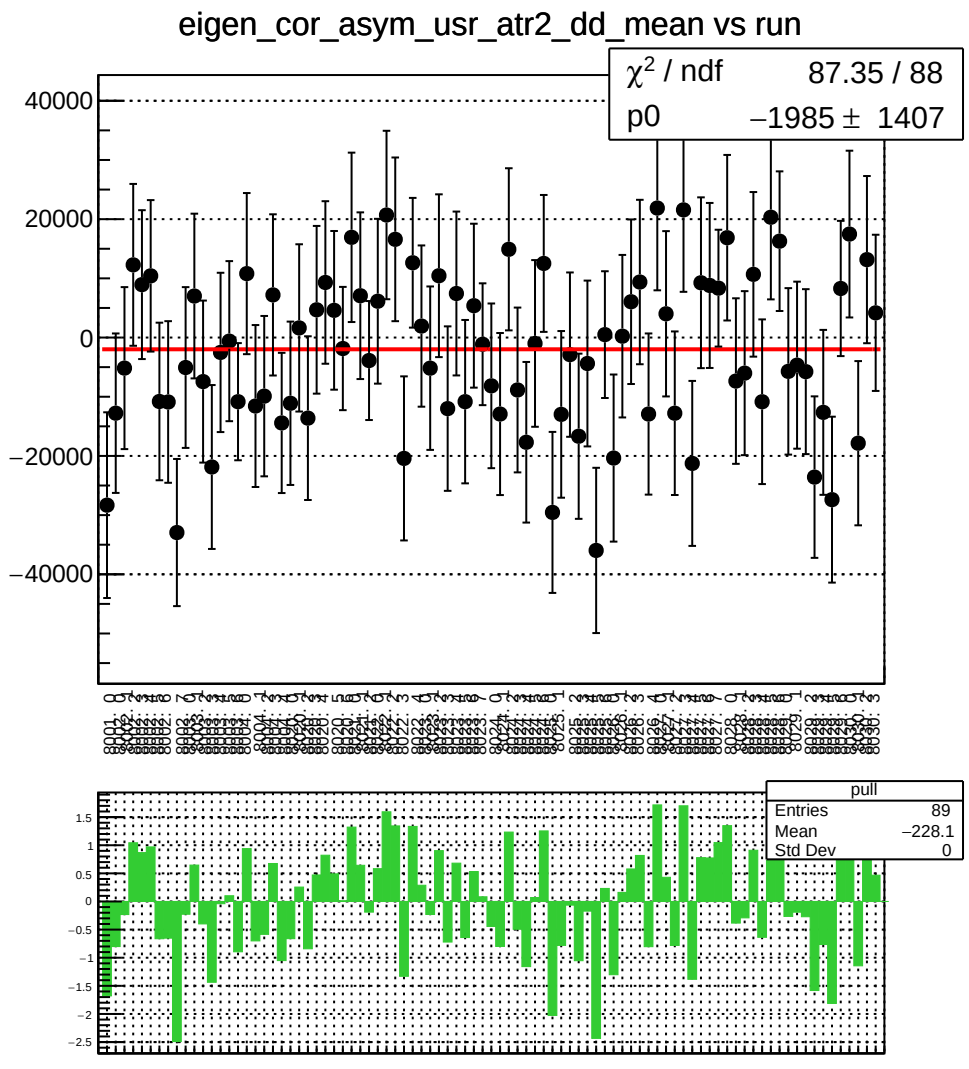

pull1D
Entries 89
Mean −0.009668
Std Dev 0.9907
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

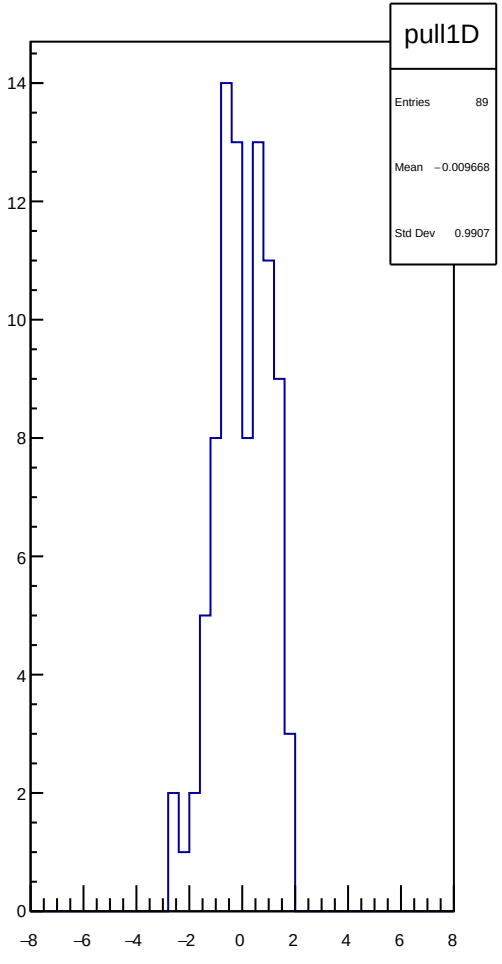

cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 715.1 / 88
p0 1310 ± 0.9948
1400
1350
1300
1250
1200

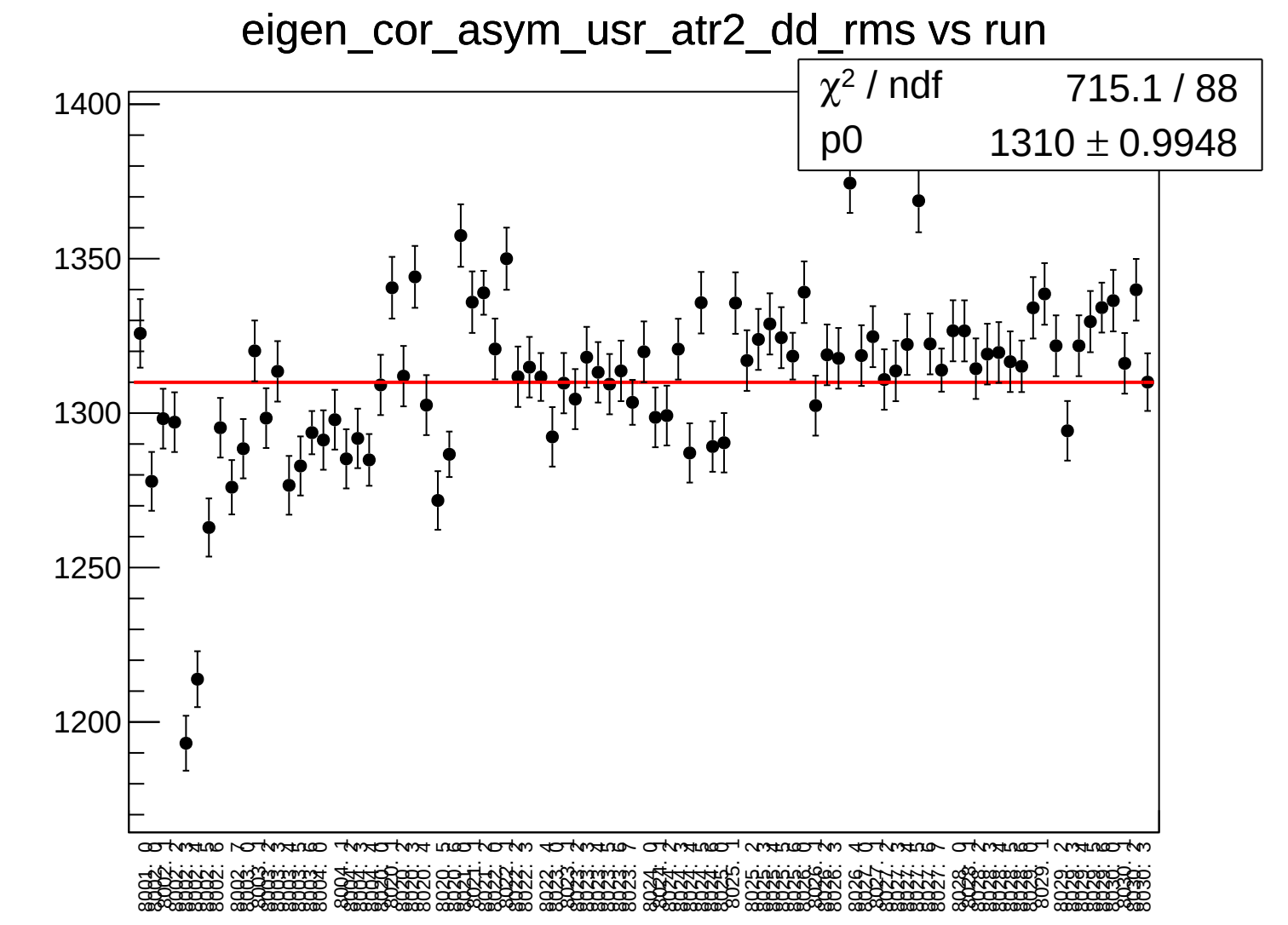

asym_usr_atr2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 97.48 / 88
p0 −423.4 ± 5900
pull
Entries 89
Mean 158.6
Std Dev 0

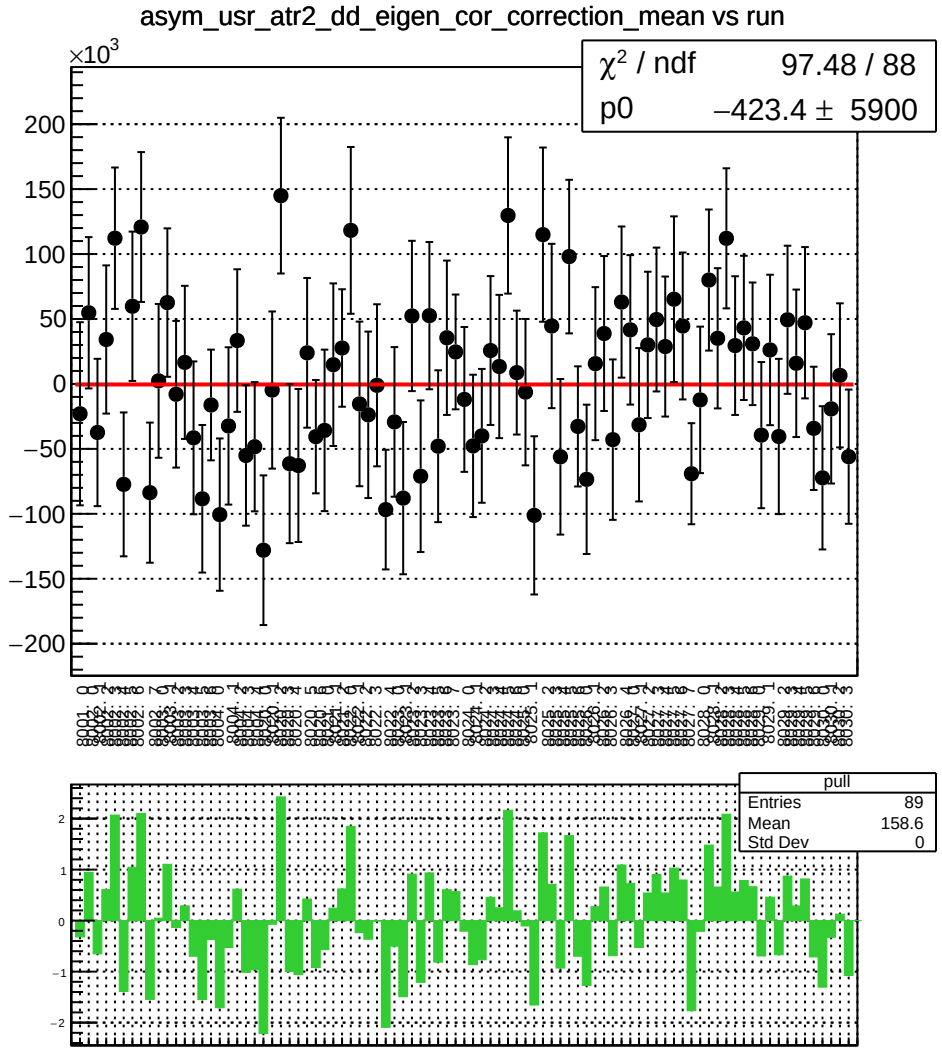

pull1D
Entries 89
Mean 0.02307
Std Dev 1.046

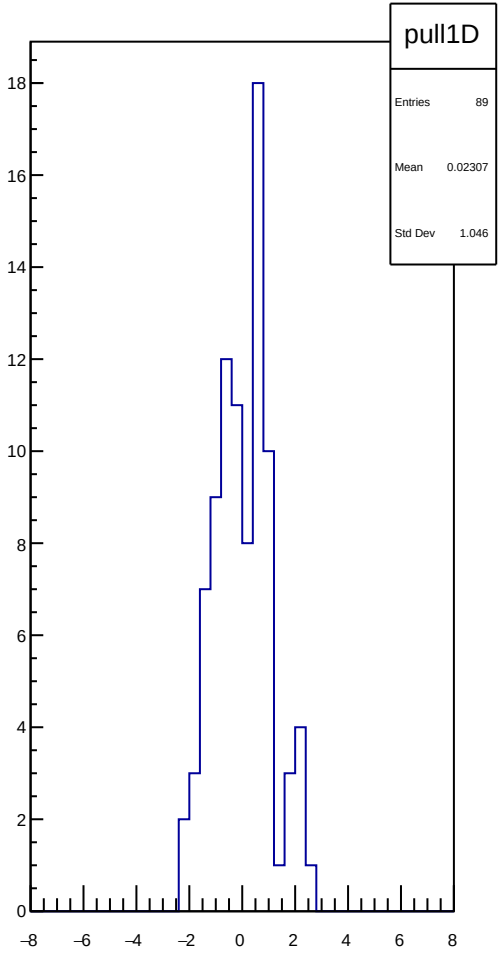

asym_usr_atr2_dd_cor_correction_rms vs run
χ² / ndf 4038 / 88
p0 5488 ± 4.172
6400
6200
6000
5800
5600
5400
5200
5000
4800

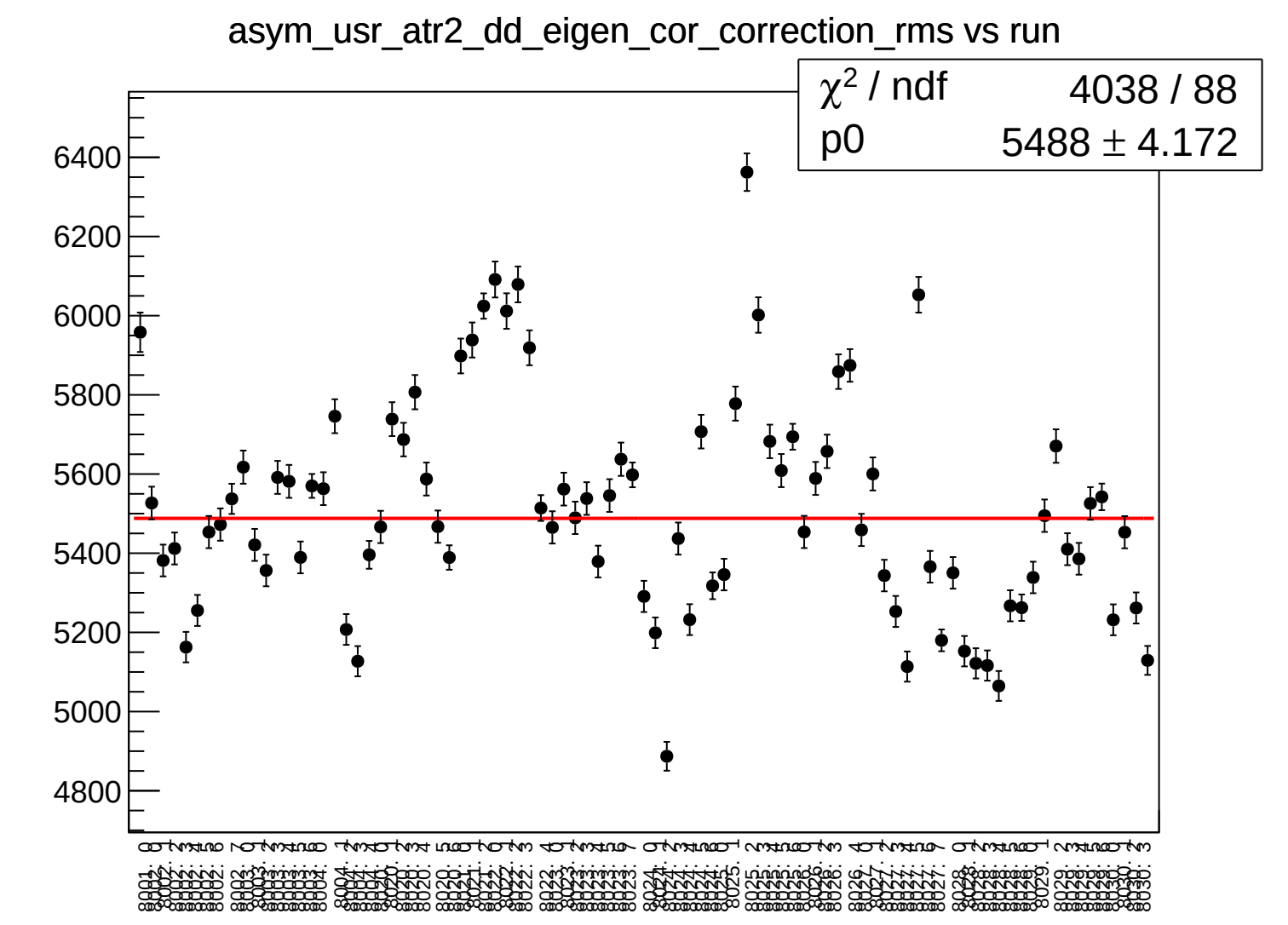

eigen_cor_asym_usr_atr2_dd_mean vs run
χ^2 / ndf 87.35 / 88
p0 −1985 ± 1407
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −228.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

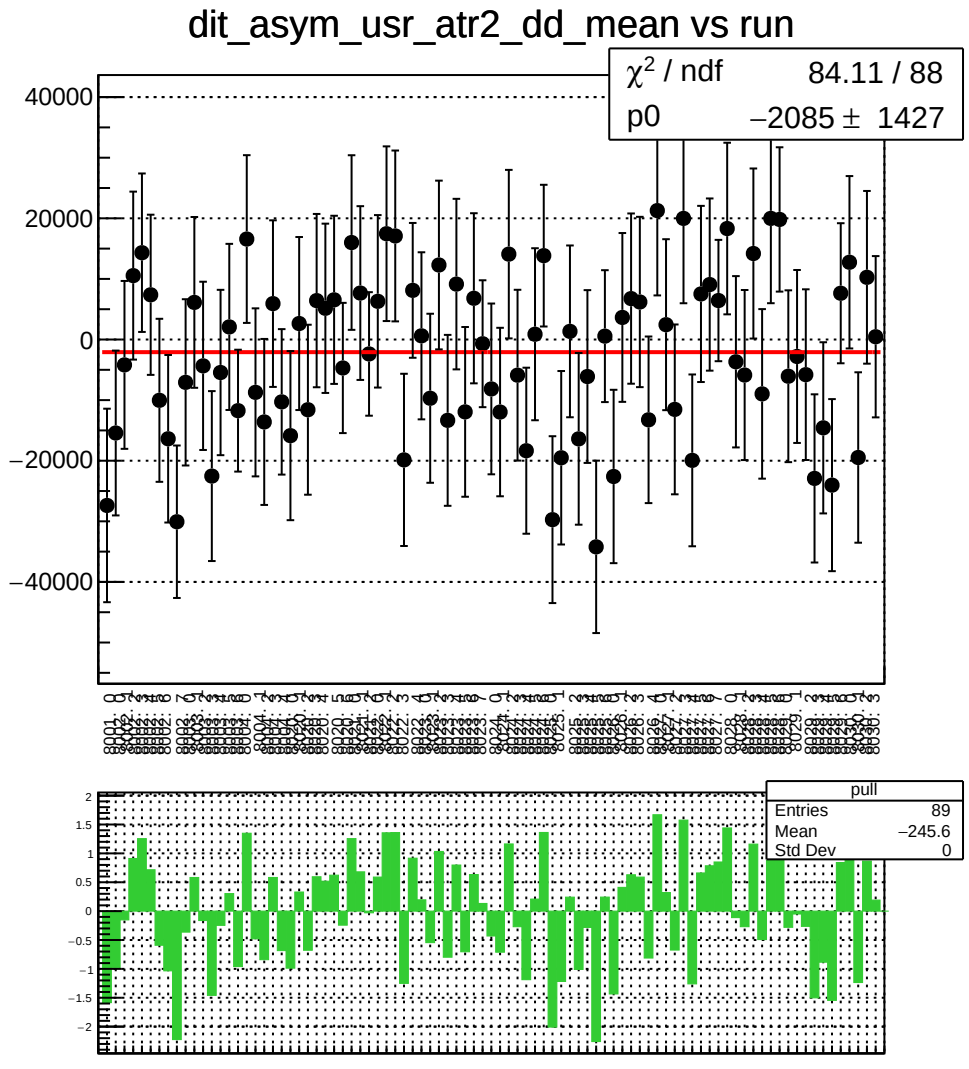

pull1D
Entries 89
Mean −0.009668
Std Dev 0.9907
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

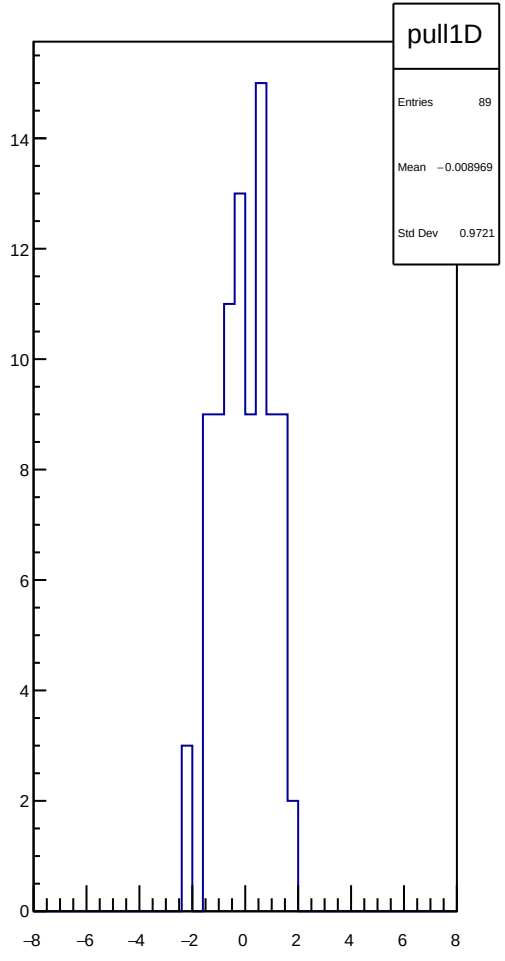

eigen_cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 715.1 / 88
p0 1310 ± 0.9948
1400
1350
1300
1250
1200

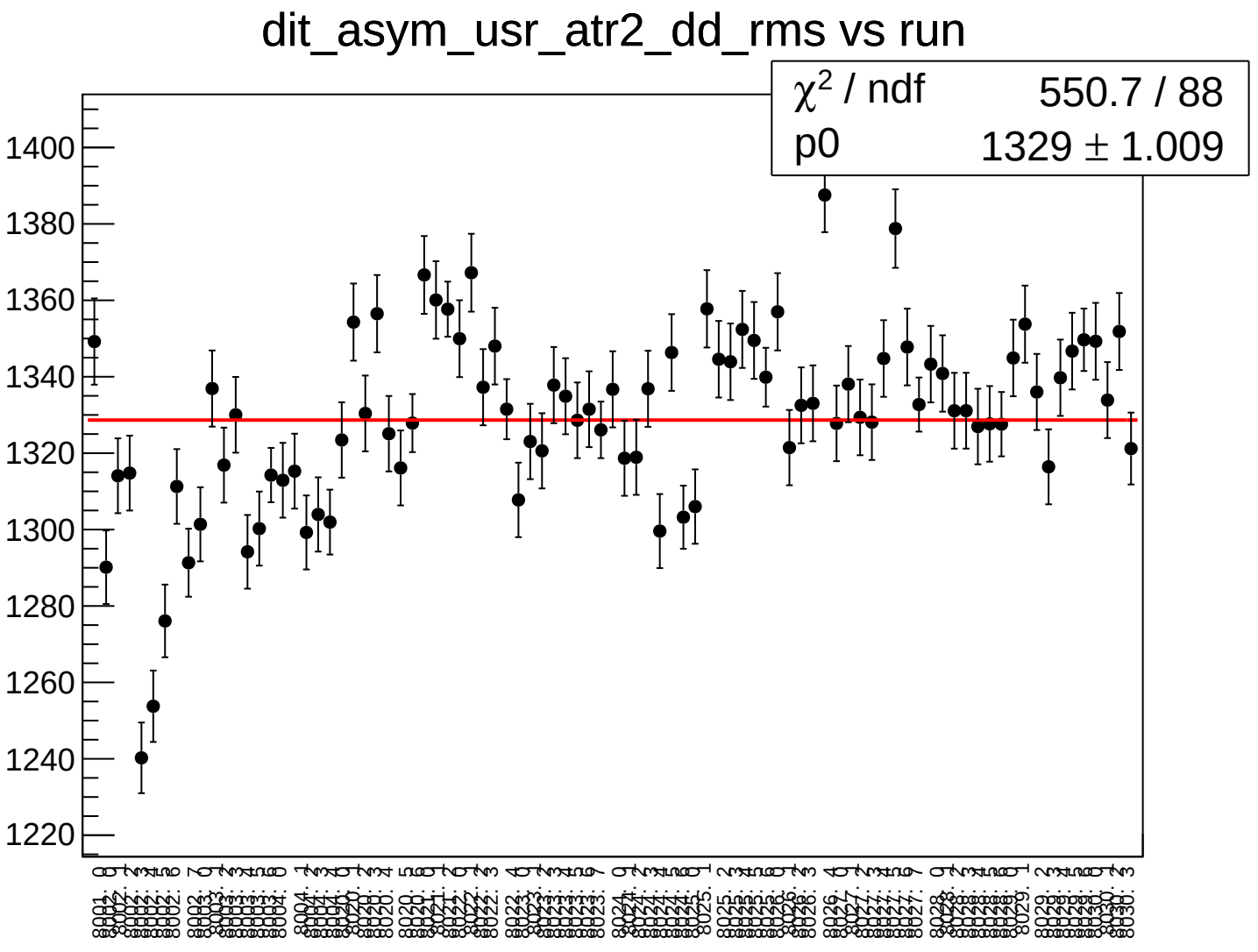

asym_usr_atr2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 97.48 / 88
p0 −423.4 ± 5900
pull
Entries 89
Mean 158.6
Std Dev 0

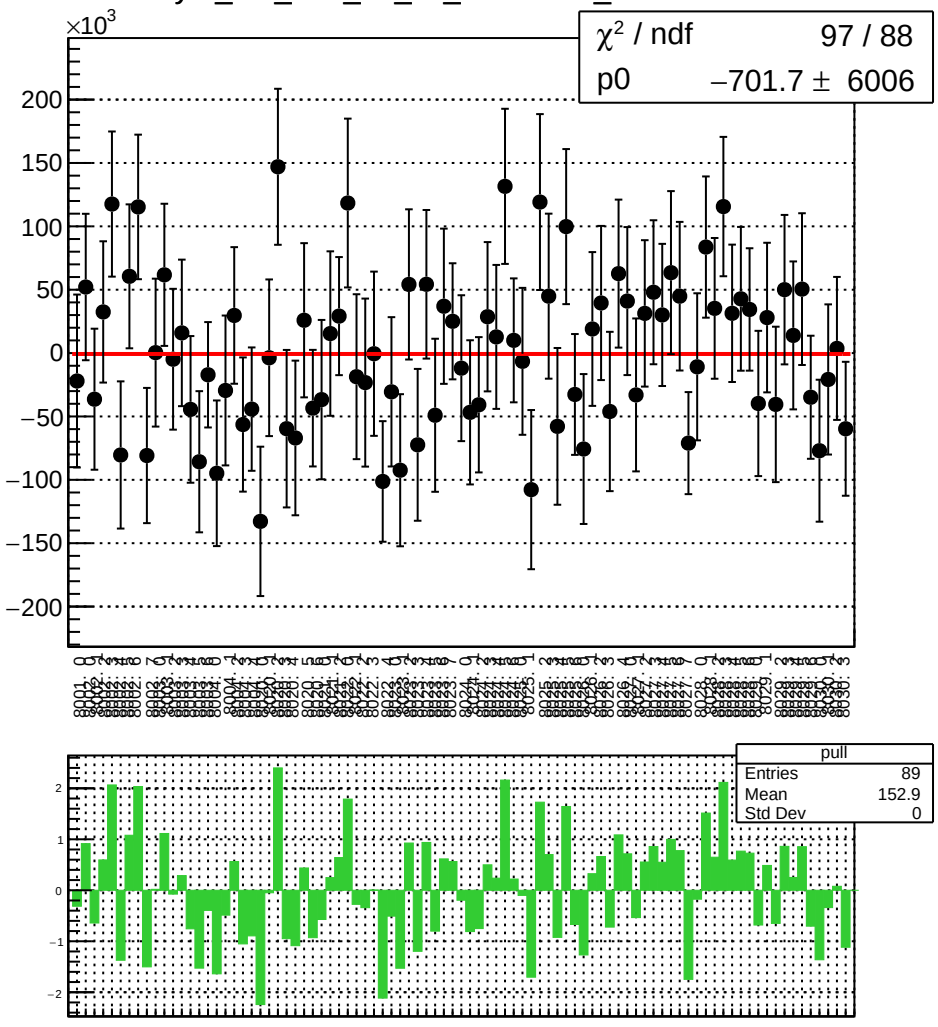

pull1D
Entries 89
Mean 0.02307
Std Dev 1.046

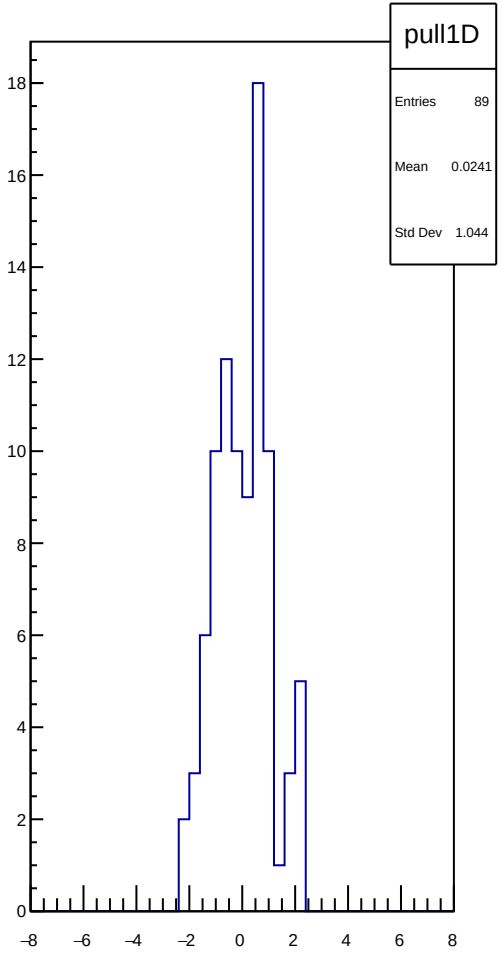

asym_usr_atr2_dd_eigen_cor_correction_rms vs run
χ² / ndf 4038 / 88
p0 5488 ± 4.172
6400
6200
6000
5800
5600
5400
5200
5000
4800

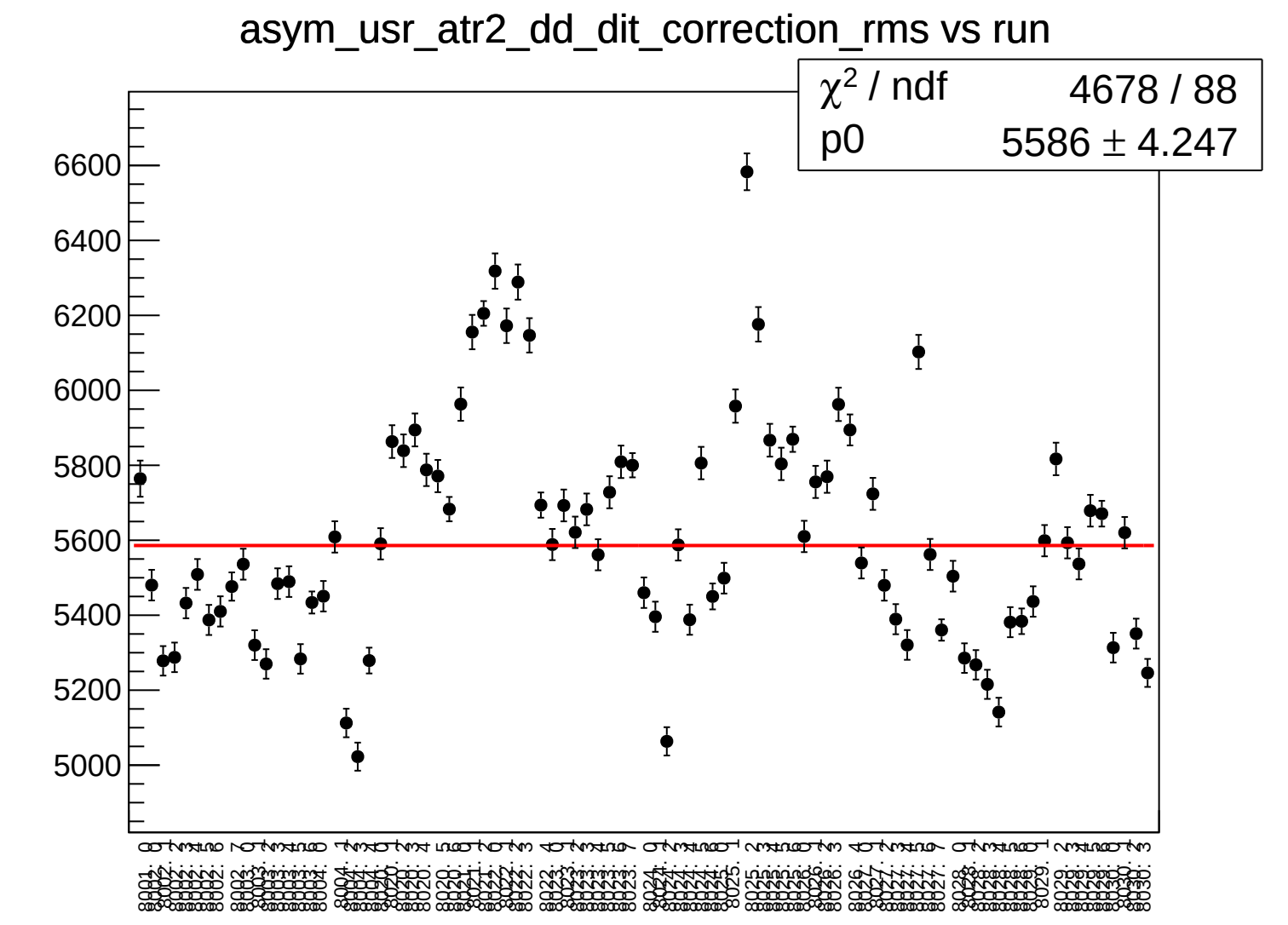

dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 84.11 / 88
p0 −2085 ± 1427
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −245.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

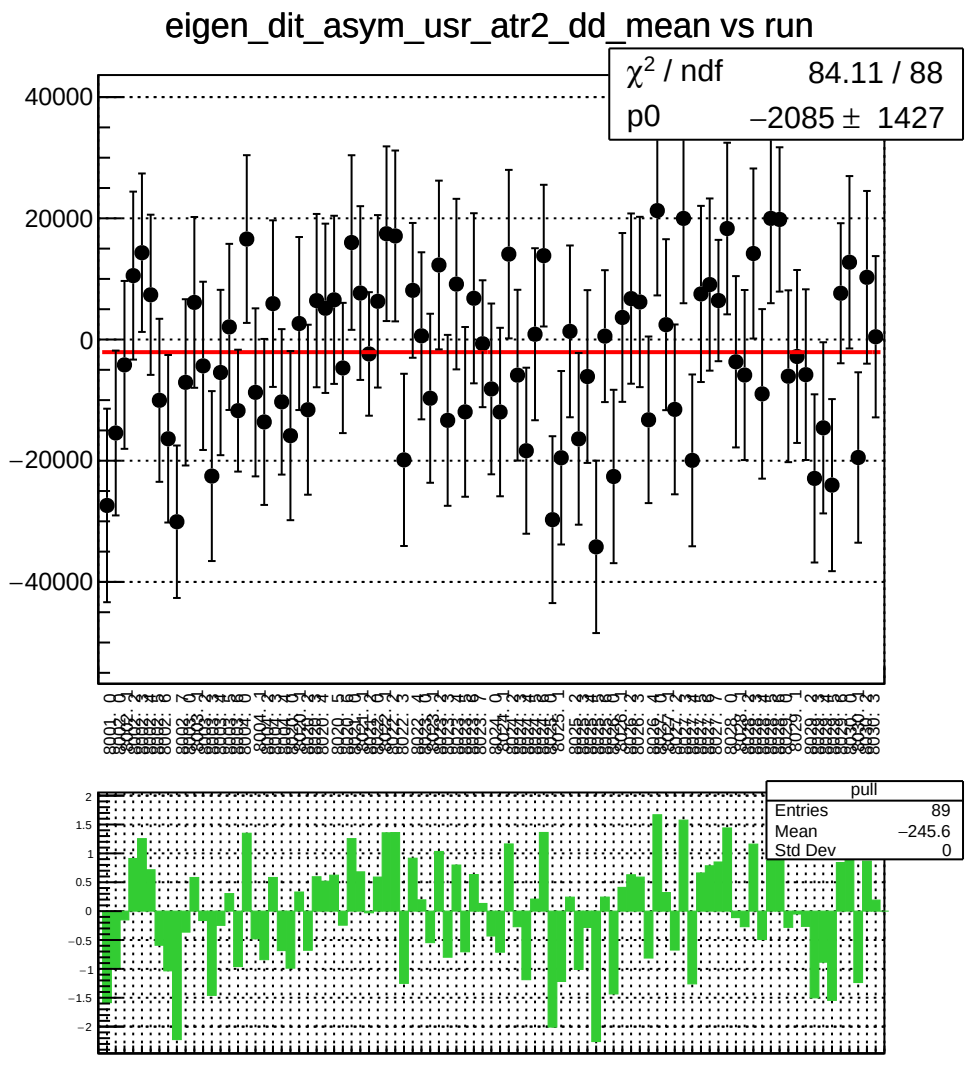

pull1D
Entries 89
Mean −0.008969
Std Dev 0.9721
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

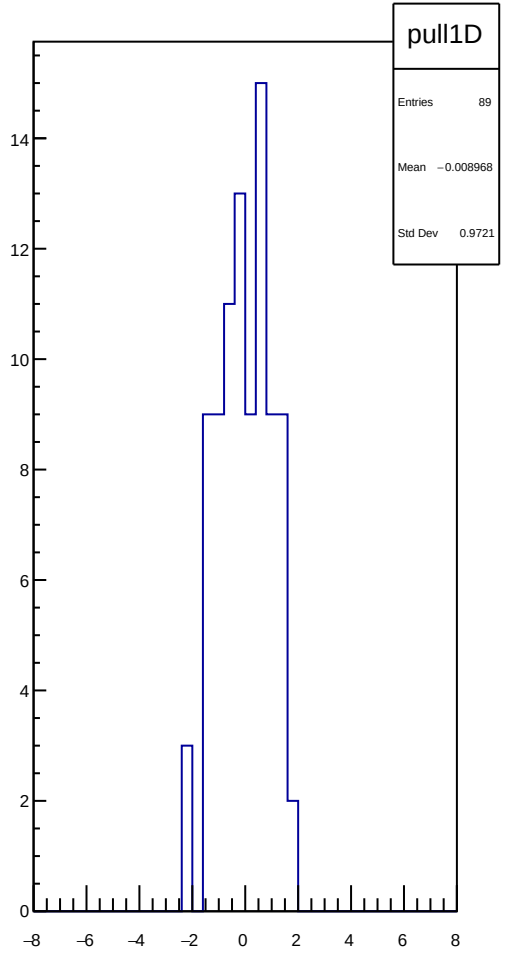

dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 550.7 / 88
p0 1329 ± 1.009
1400
1380
1360
1340
1320
1300
1280
1260
1240
1220

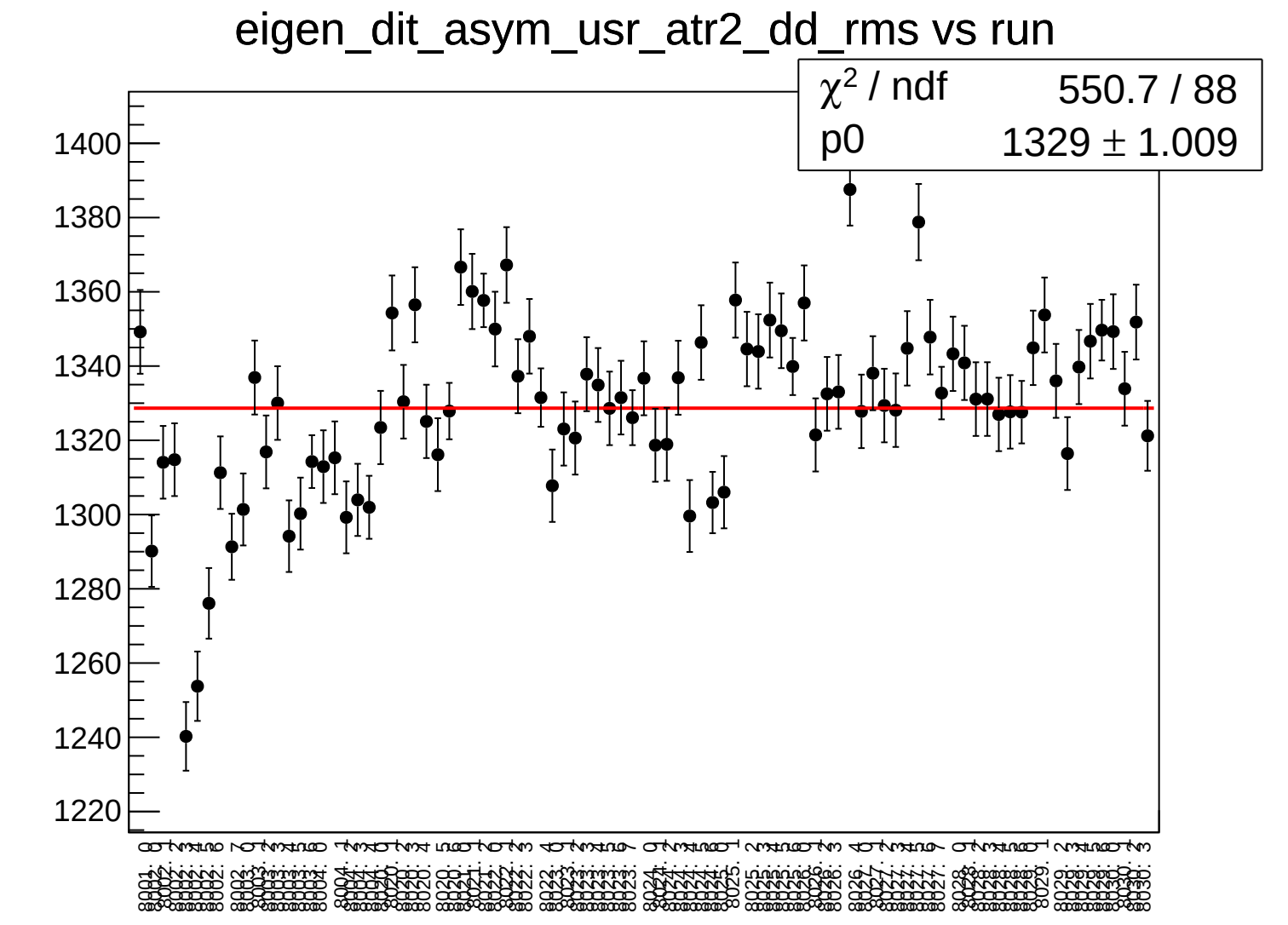

asym_usr_atr2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 97 / 88
p0 −701.7 ± 6006
pull
Entries 89
Mean 152.9
Std Dev 0

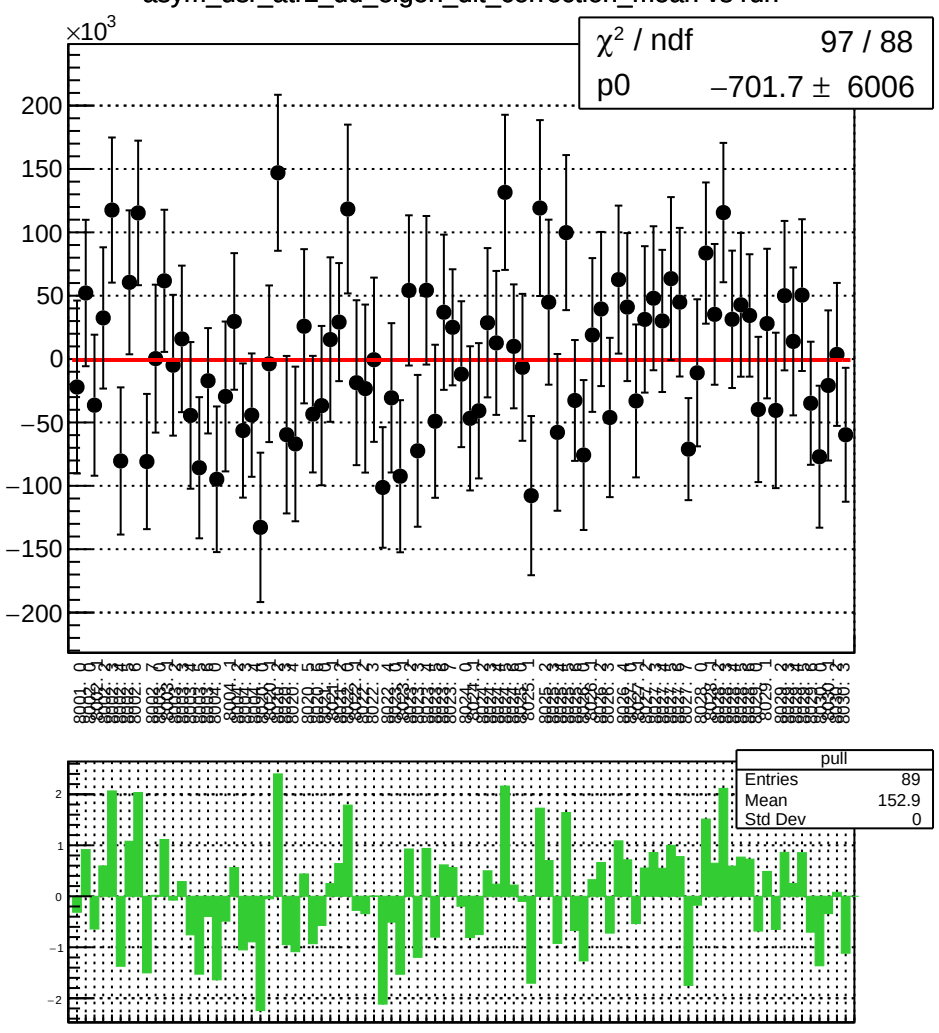

pull1D
Entries 89
Mean 0.0241
Std Dev 1.044

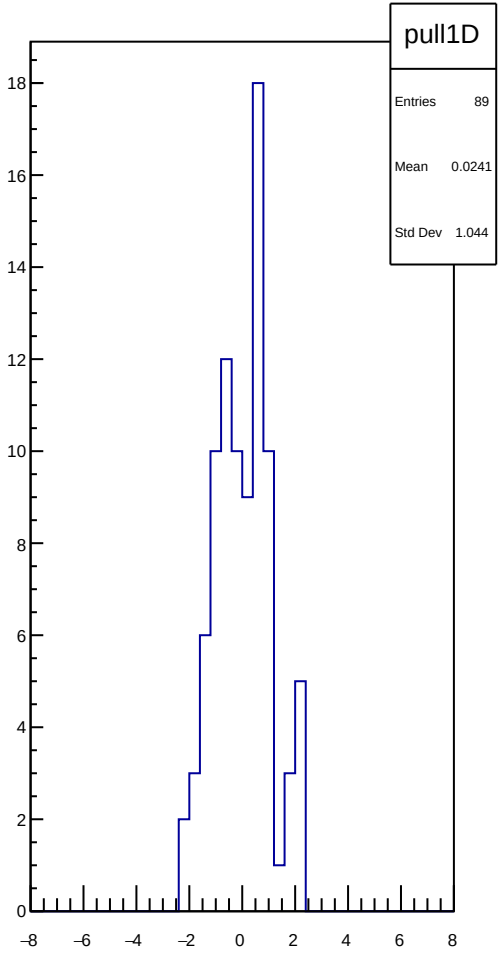

asym_usr_atr2_dd_dit_correction_rms vs run
χ² / ndf 4678 / 88
p0 5586 ± 4.247
6600
6400
6200
6000
5800
5600
5400
5200
5000

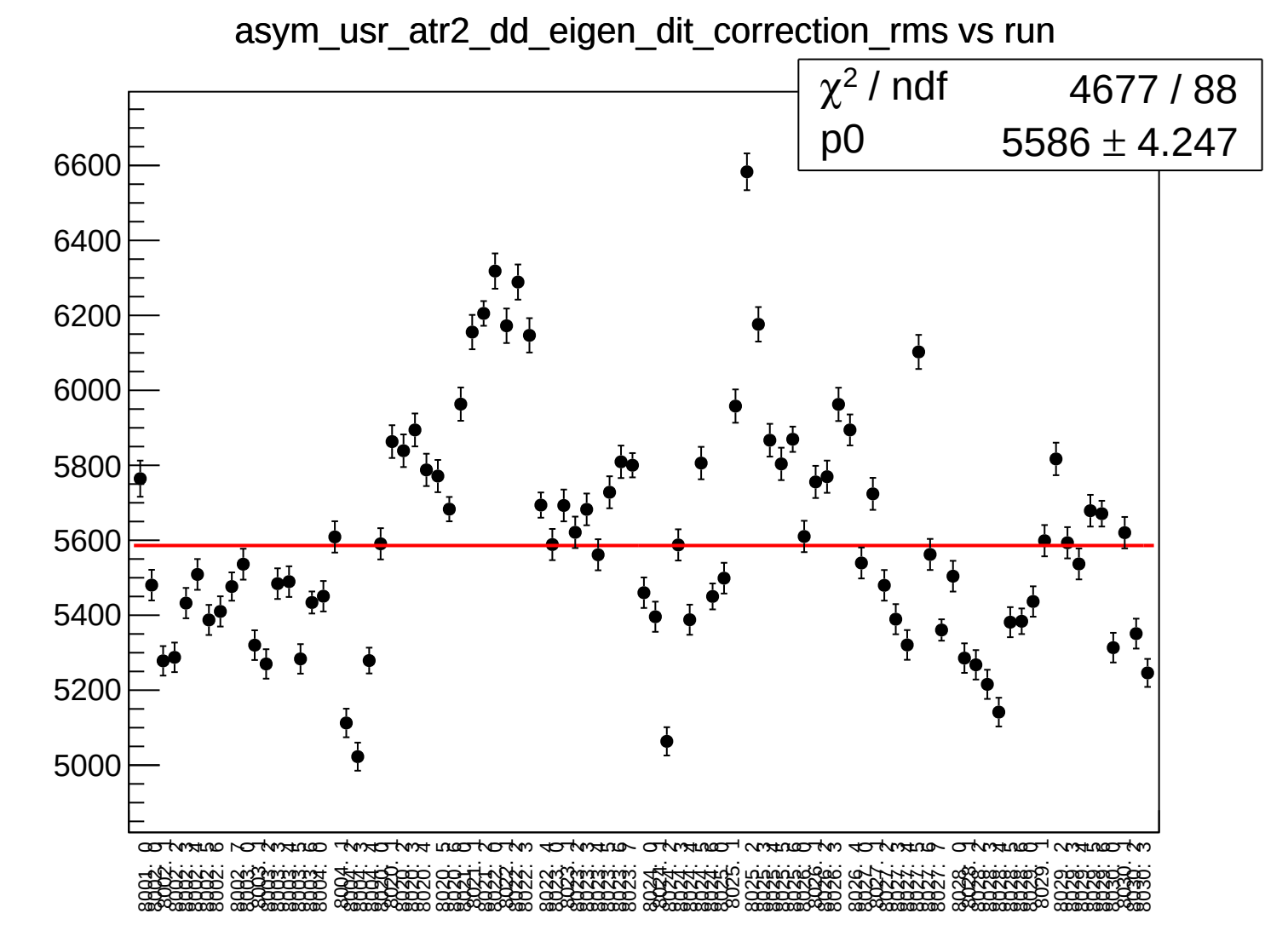

eigen_dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 84.11 / 88
p0 −2085 ± 1427
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −245.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

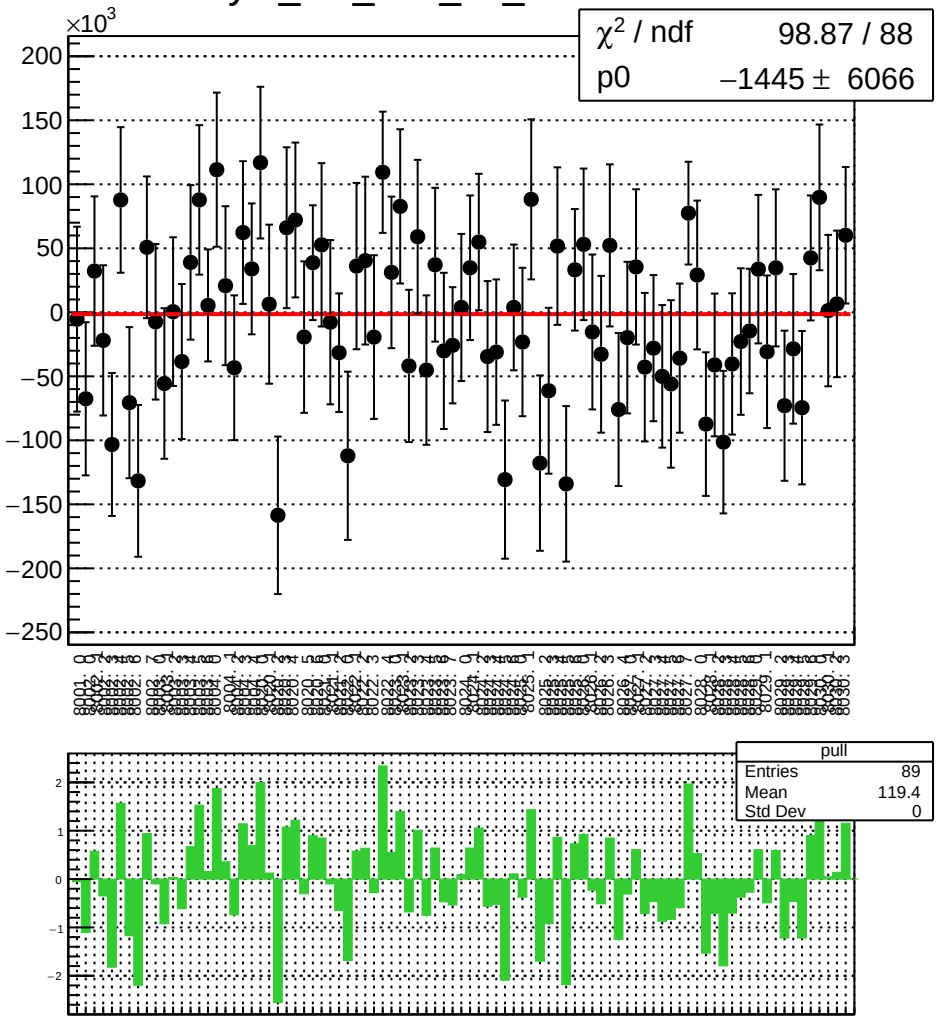

pull1D
Entries 89
Mean −0.008968
Std Dev 0.9721
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

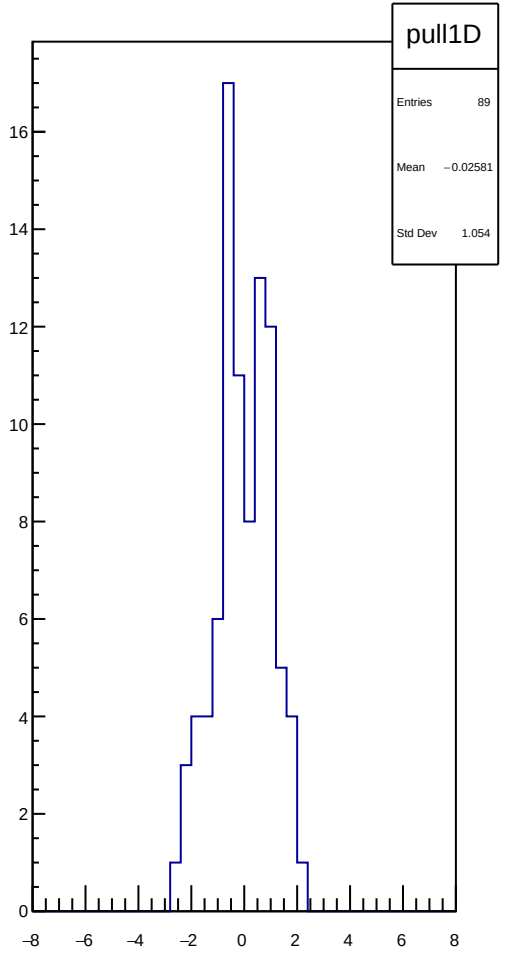

eigen_dit_asym_usr_atr2_dd_rms vs run
χ^2 / ndf 550.7 / 88
p0 1329 ± 1.009
1400
1380
1360
1340
1320
1300
1280
1260
1240
1220

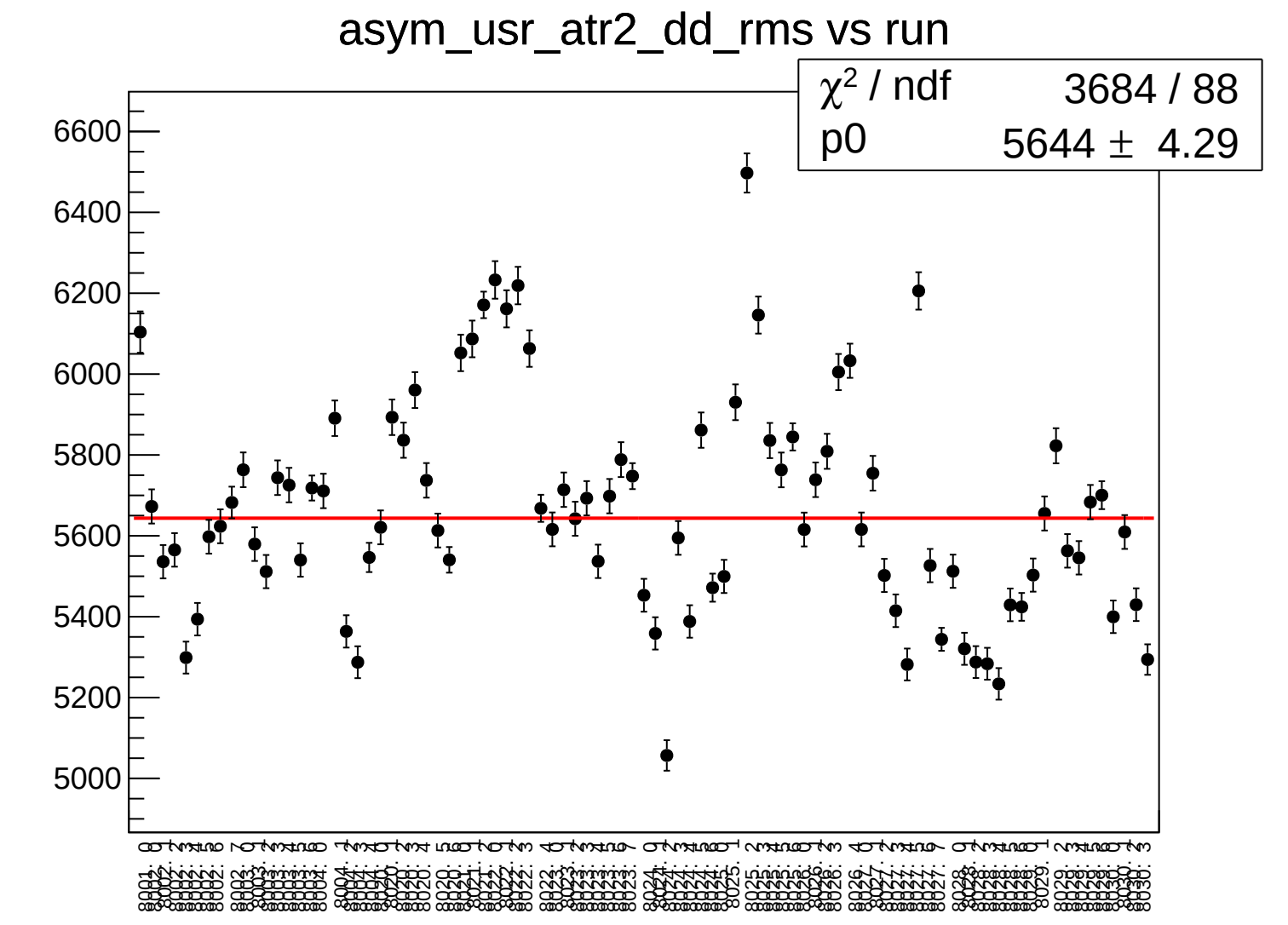

asym_usr_atr2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 97 / 88
p0 −701.7 ± 6006
pull
Entries 89
Mean 152.9
Std Dev 0

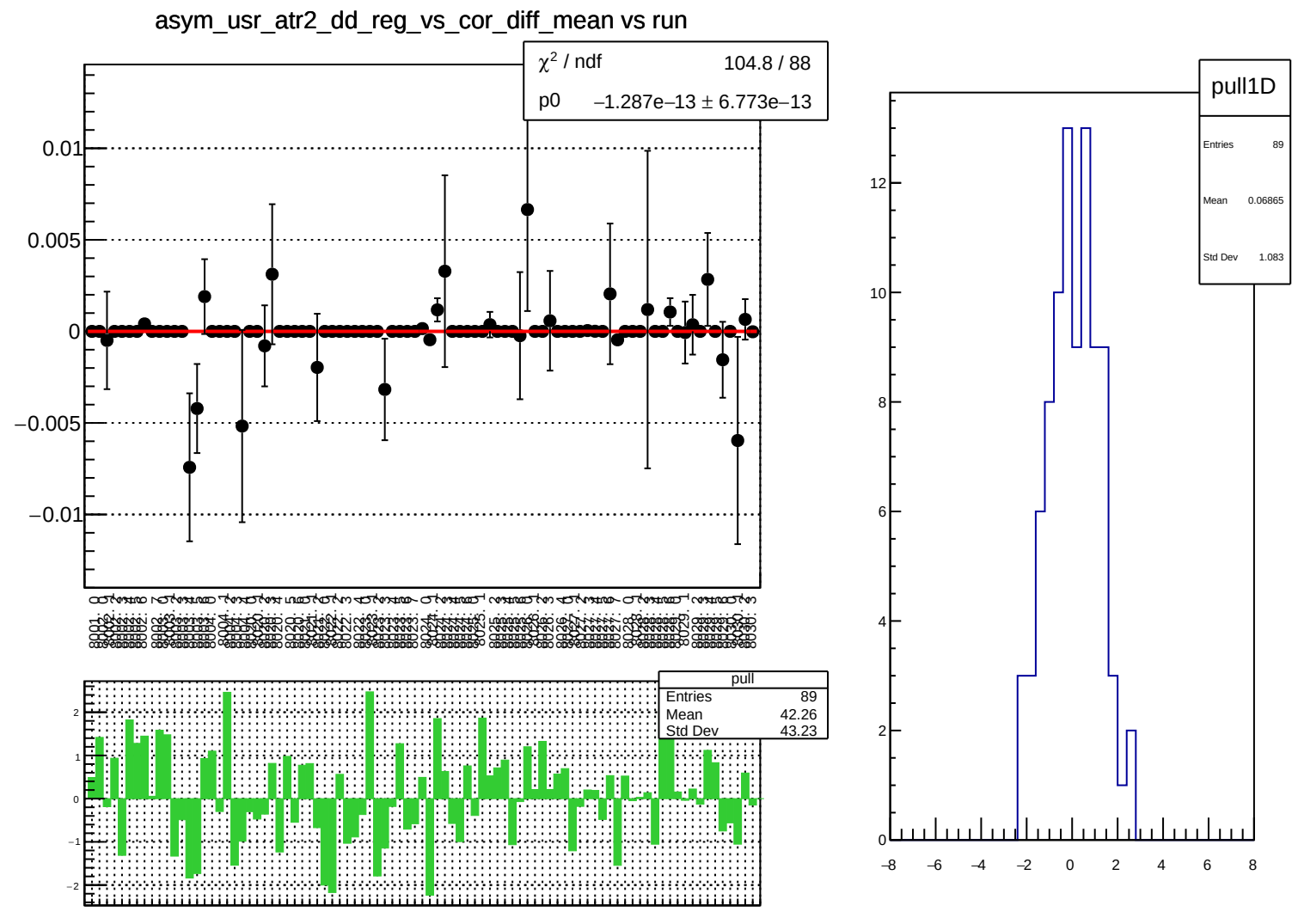

pull1D
Entries 89
Mean 0.0241
Std Dev 1.044

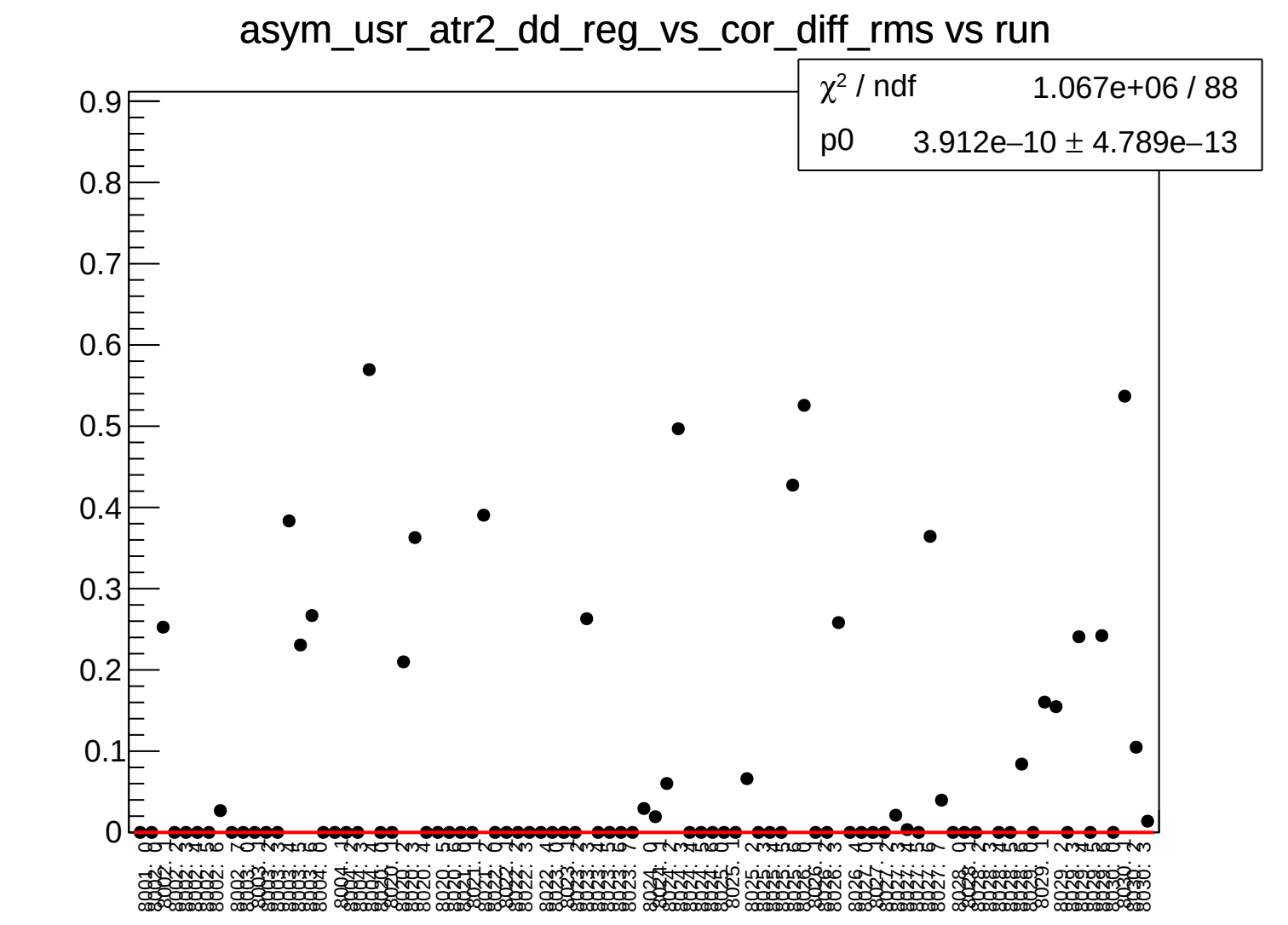

asym_usr_atr2_dd_eigen_dit_correction_rms vs run
χ² / ndf 4677 / 88
p0 5586 ± 4.247
6600
6400
6200
6000
5800
5600
5400
5200
5000

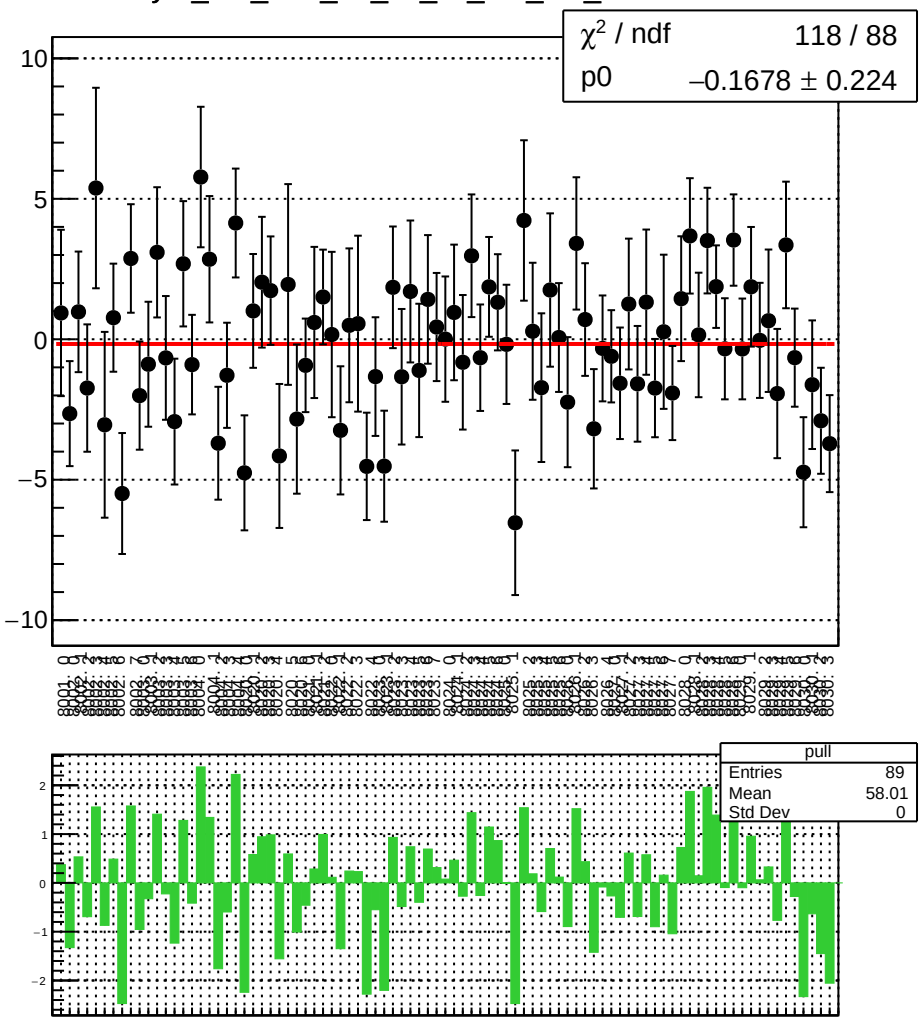

asym_usr_atr2_dd_mean vs run
×10^3
χ² / ndf 98.87 / 88
p0 −1445 ± 6066
pull
Entries 89
Mean 119.4
Std Dev 0

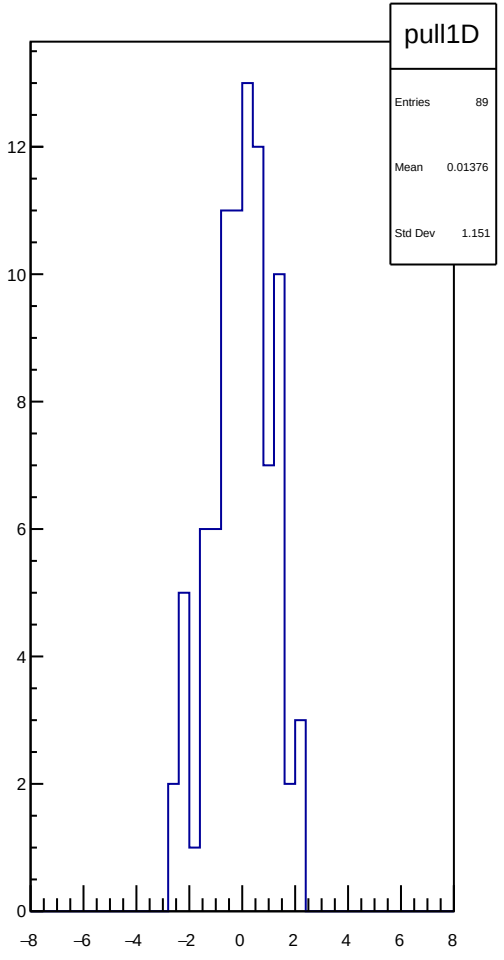

pull1D
Entries 89
Mean −0.02581
Std Dev 1.054

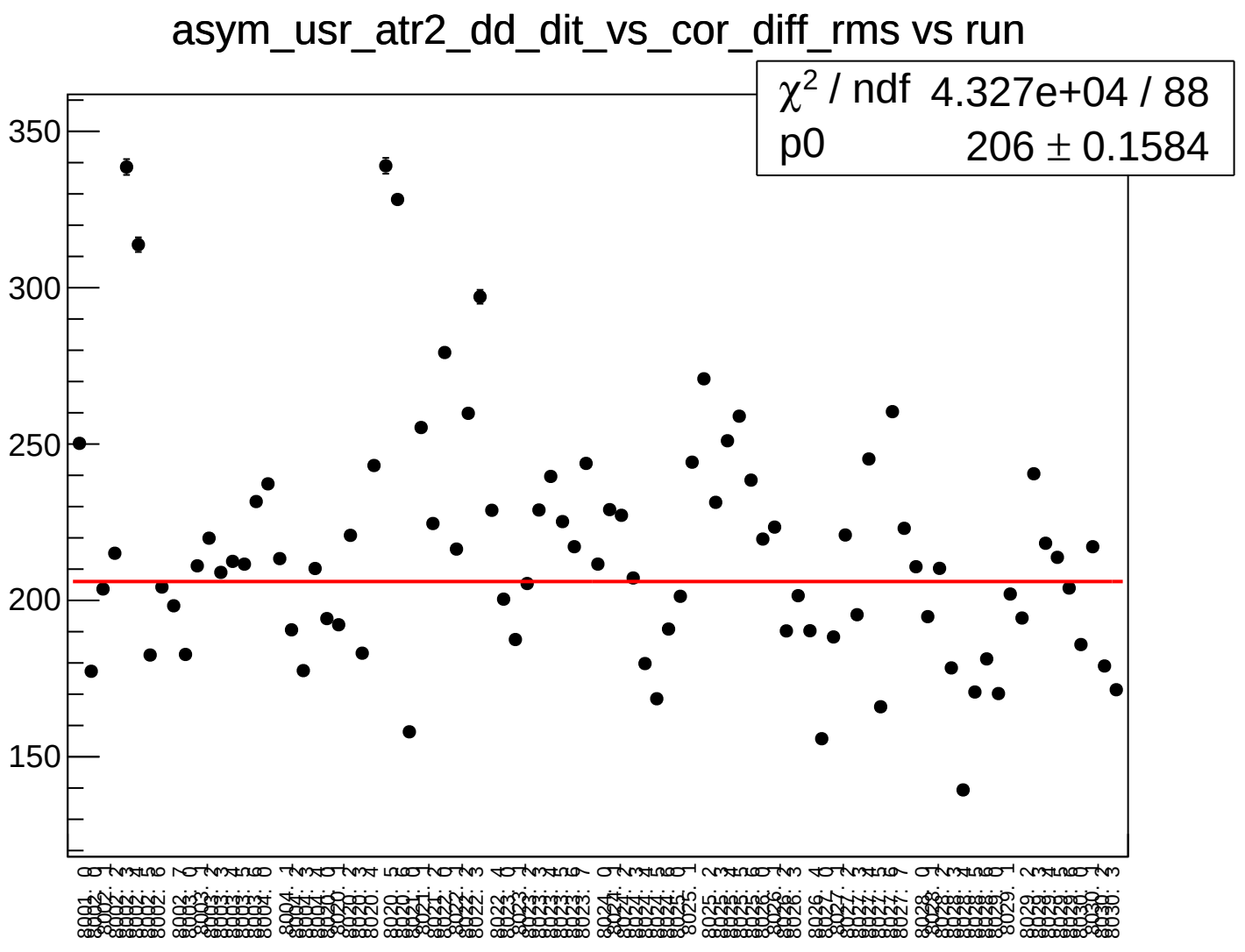

asym_usr_atr2_dd_rms vs run
χ² / ndf 3684 / 88
p0 5644 ± 4.29
6600
6400
6200
6000
5800
5600
5400
5200
5000

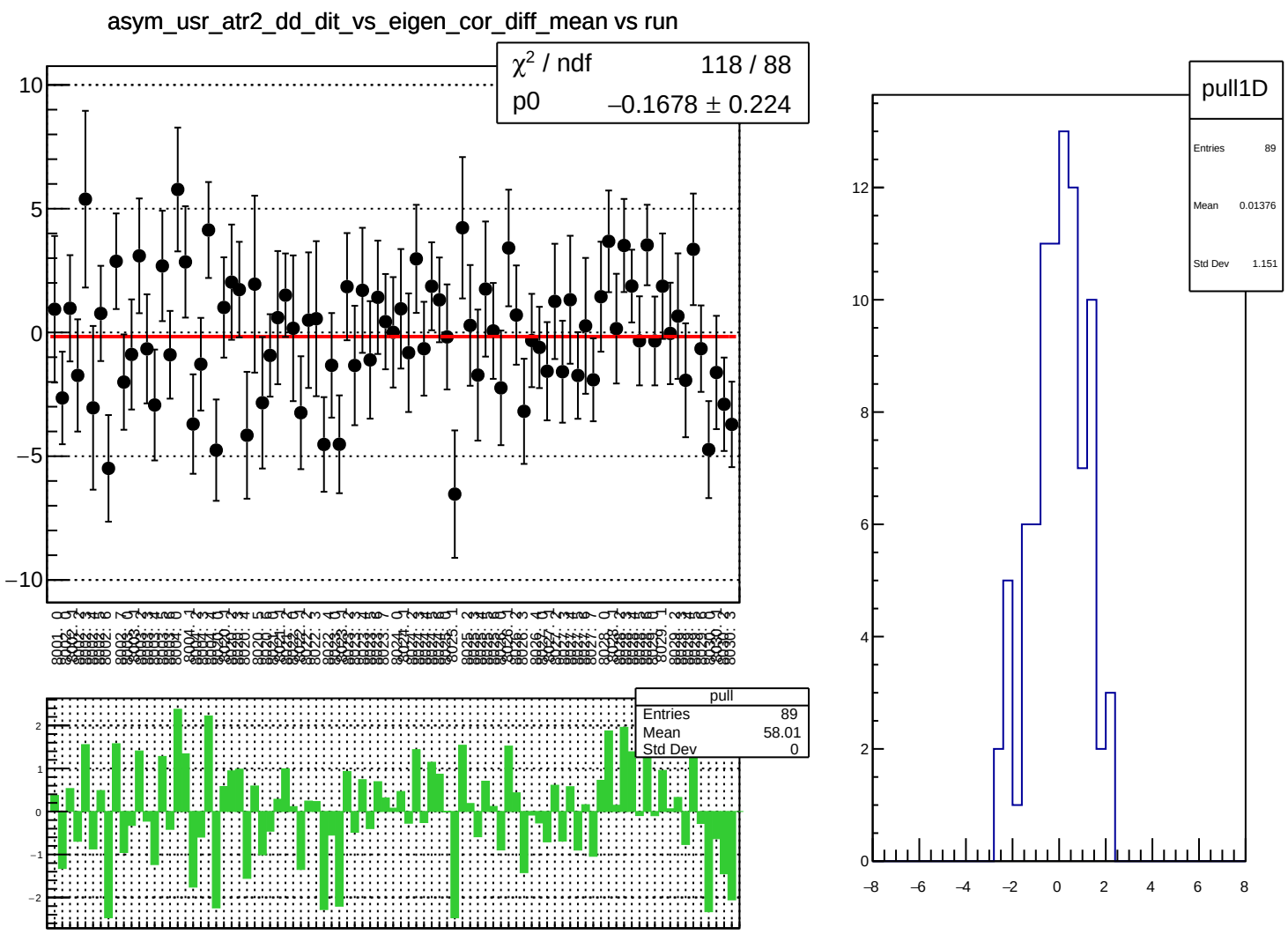

asym_usr_atr2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 104.8 / 88
p0 −1.287e−13 ± 6.773e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 89
Mean 42.26
Std Dev 43.23
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.06865
Std Dev 1.083
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

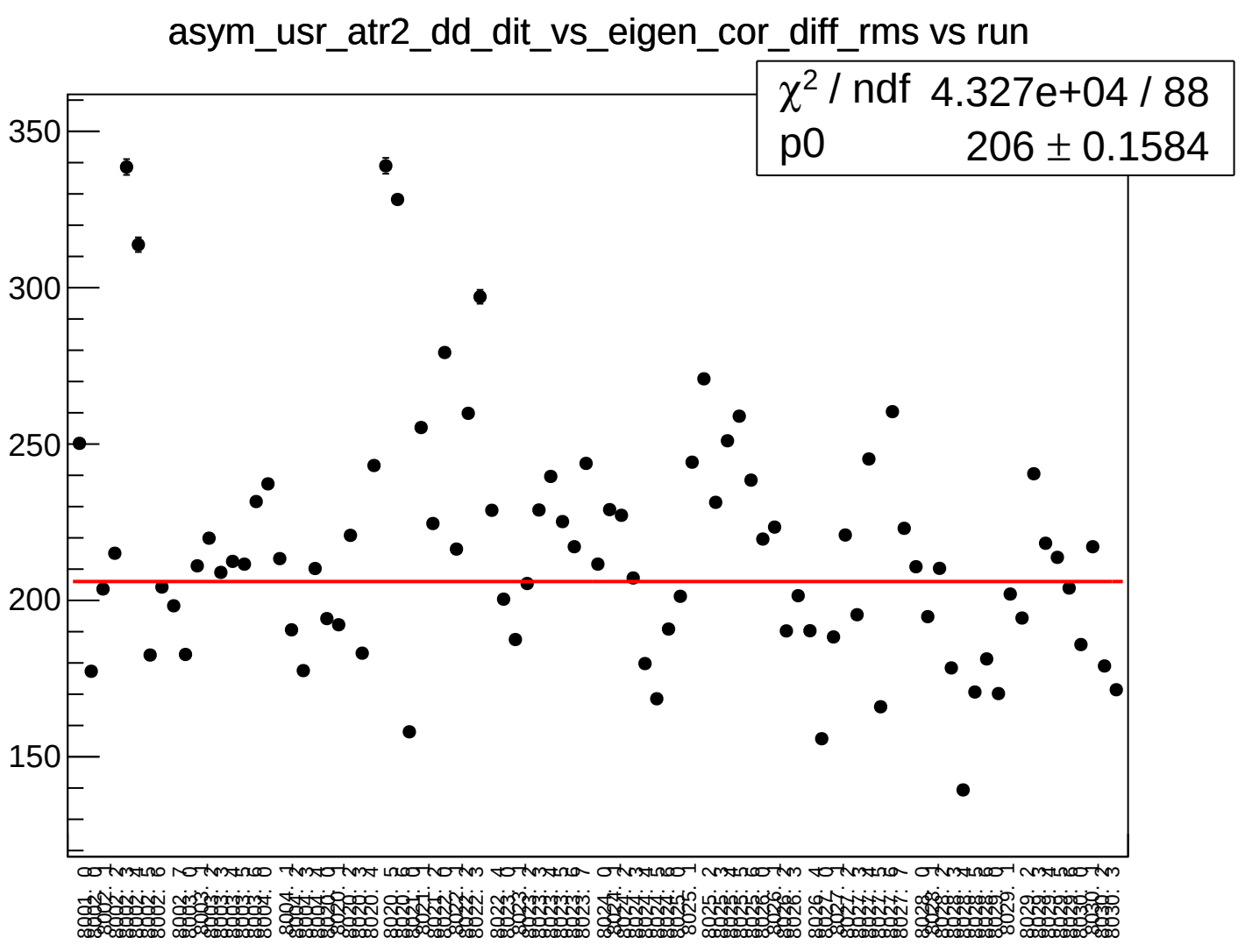

asym_usr_atr2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.067e+06 / 88
p0 3.912e−10 ± 4.789e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

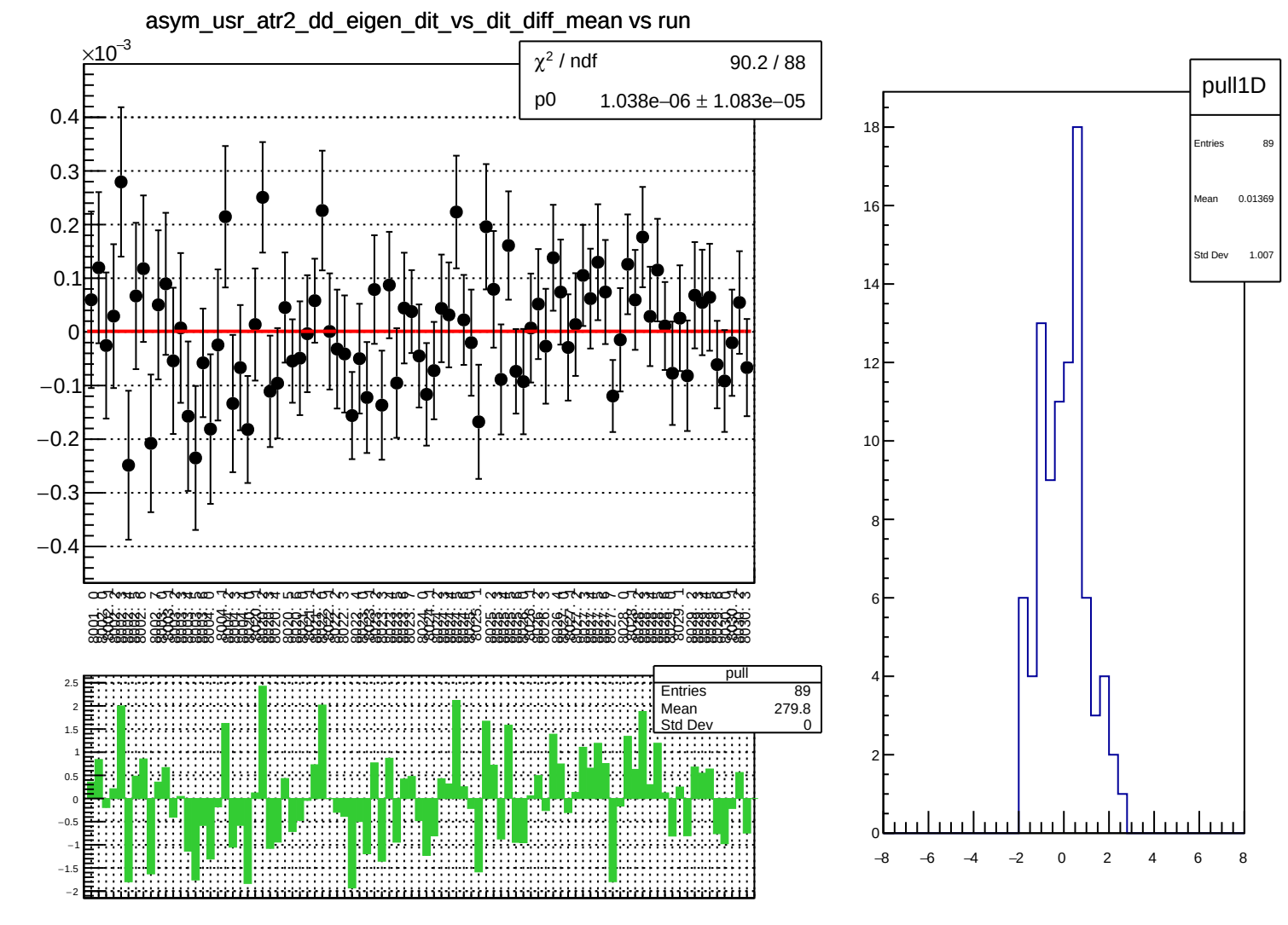

asym_usr_atr2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 118 / 88
p0 −0.1678 ± 0.224
pull
Entries 89
Mean 58.01
Std Dev 0

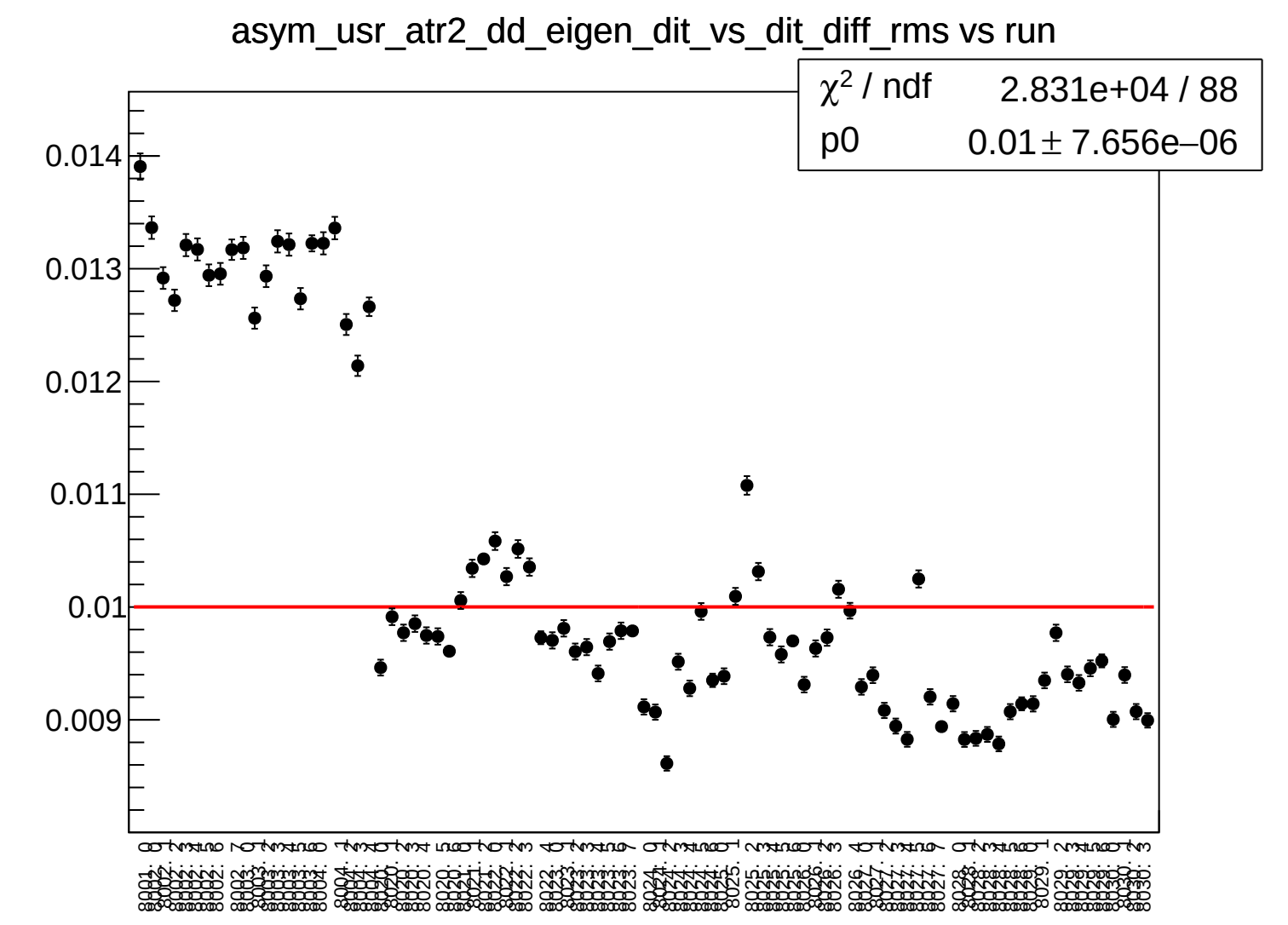

pull1D
Entries 89
Mean 0.01376
Std Dev 1.151

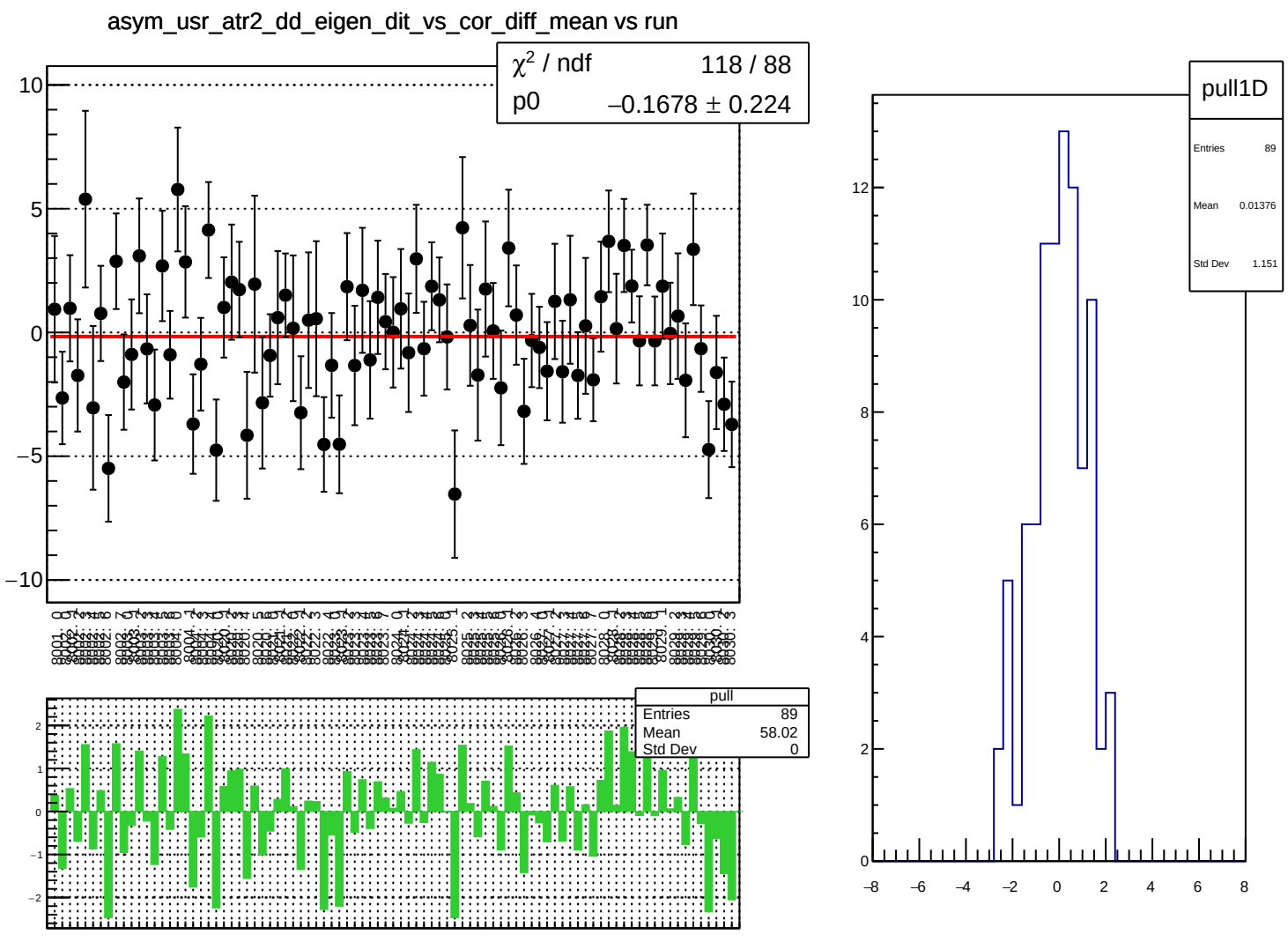

asym_usr_atr2_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 4.327e+04 / 88
p0 206 ± 0.1584
350
300
250
200
150

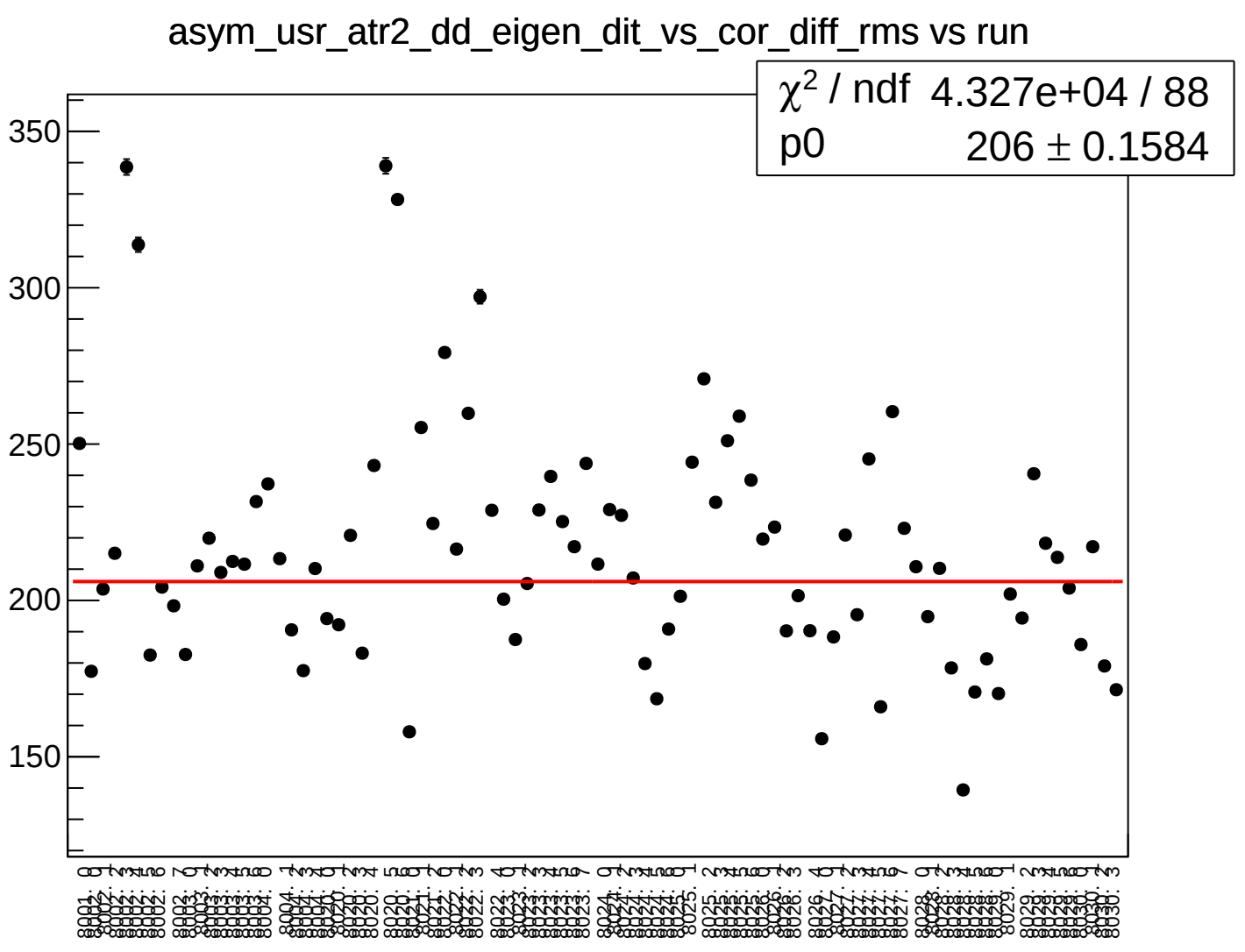

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 118 / 88
p0 −0.1678 ± 0.224
pull
Entries 89
Mean 58.01
Std Dev 0
pull1D
Entries 89
Mean 0.01376
Std Dev 1.151

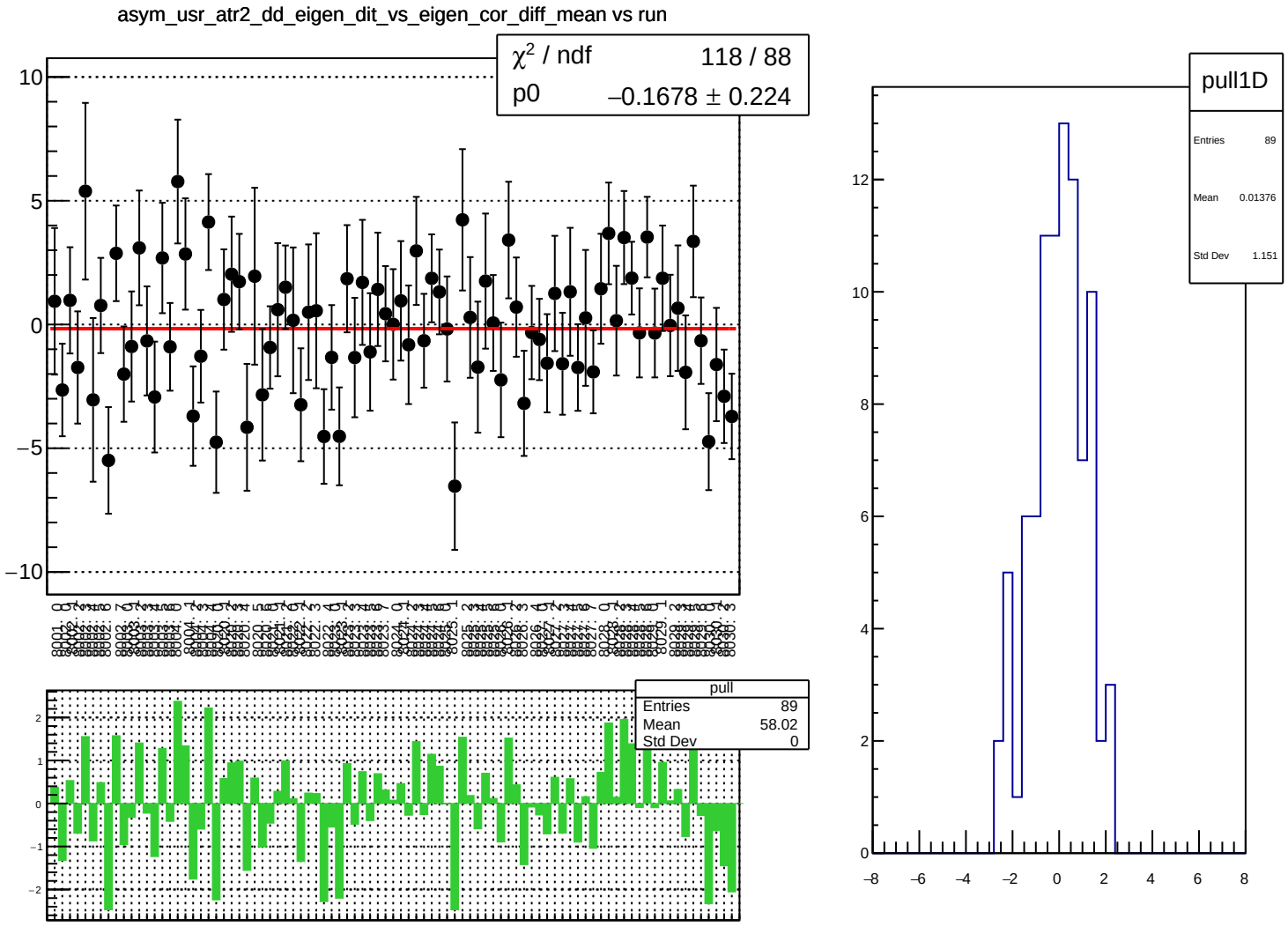

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.327e+04 / 88
p0 206 ± 0.1584
350
300
250
200
150

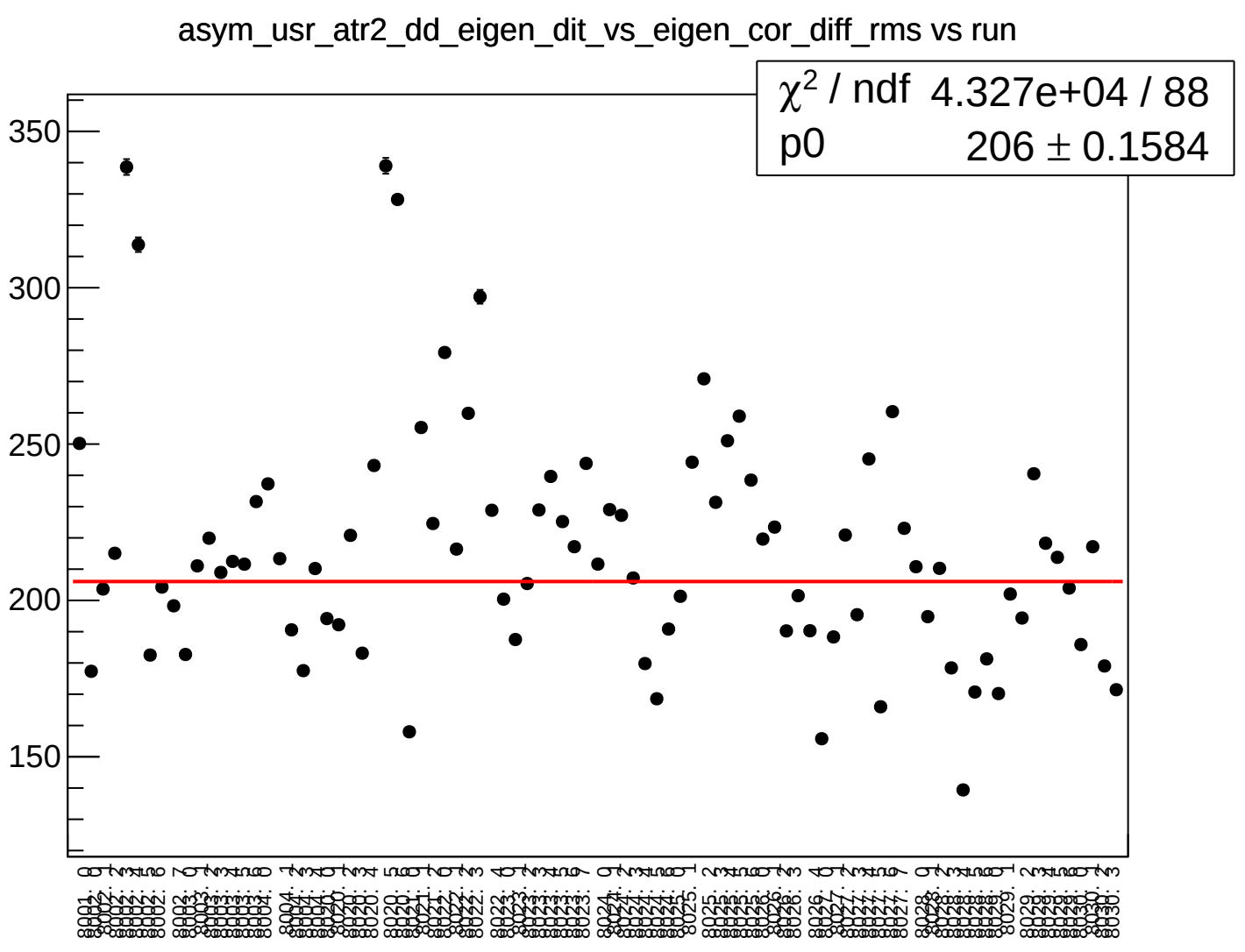

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.2 / 88
p0 1.038e−06 ± 1.083e−05
pull
Entries 89
Mean 279.8
Std Dev 0
pull1D
Entries 89
Mean 0.01369
Std Dev 1.007

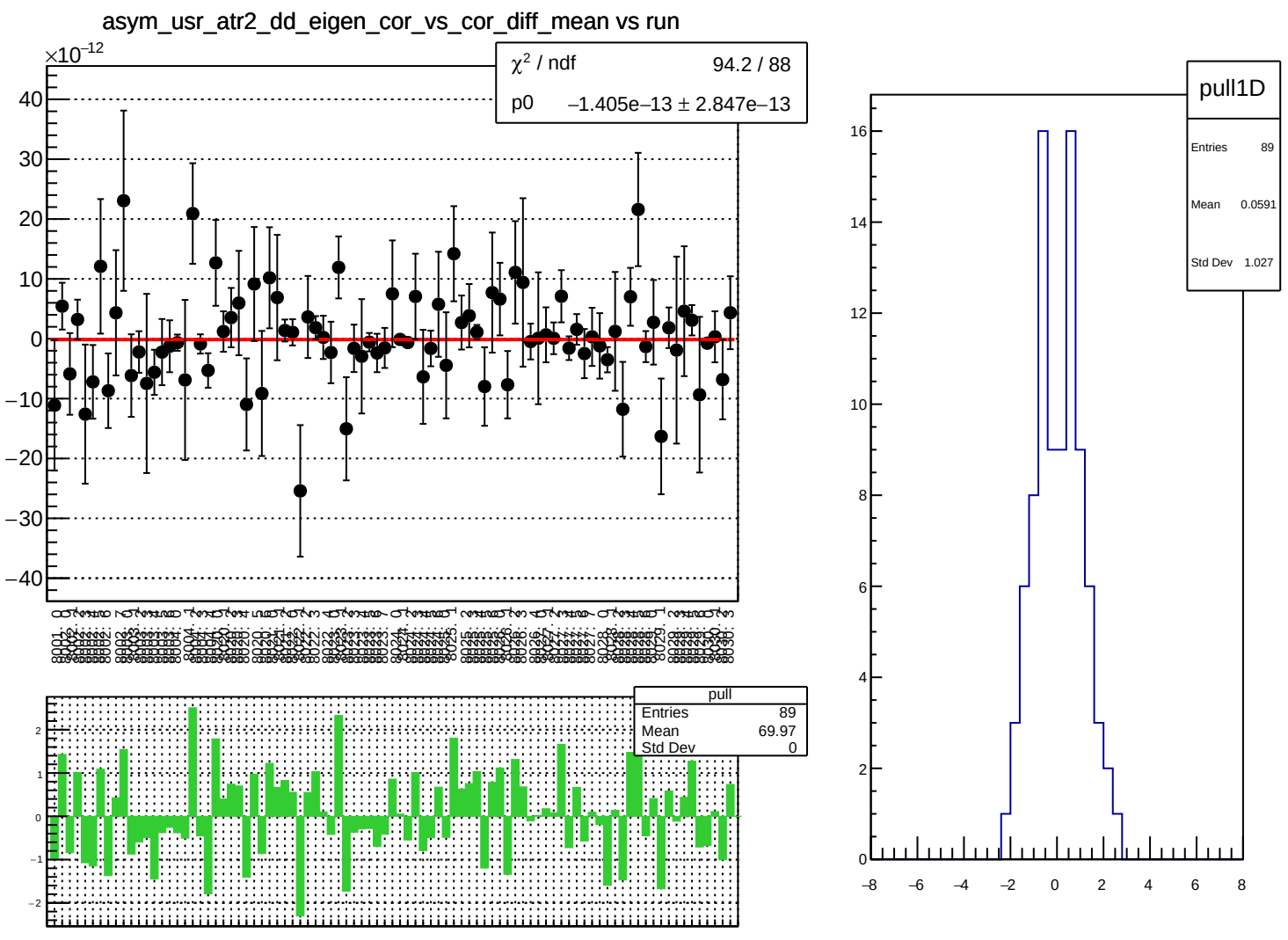

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.831e+04 / 88
p0 0.01 ± 7.656e–06
0.014
0.013
0.012
0.011
0.01
0.009

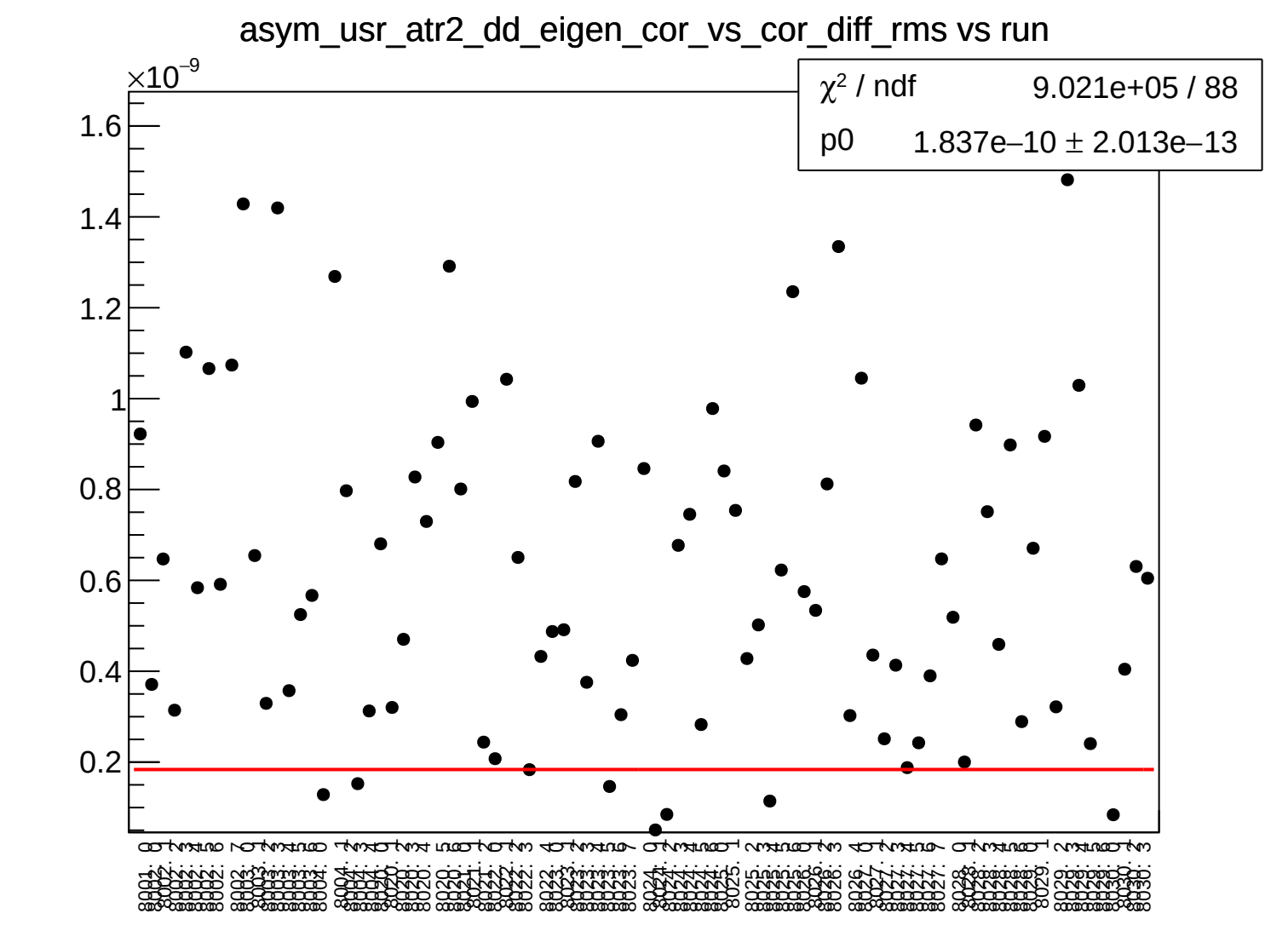

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 118 / 88
p0 −0.1678 ± 0.224
pull
Entries 89
Mean 58.02
Std Dev 0
pull1D
Entries 89
Mean 0.01376
Std Dev 1.151

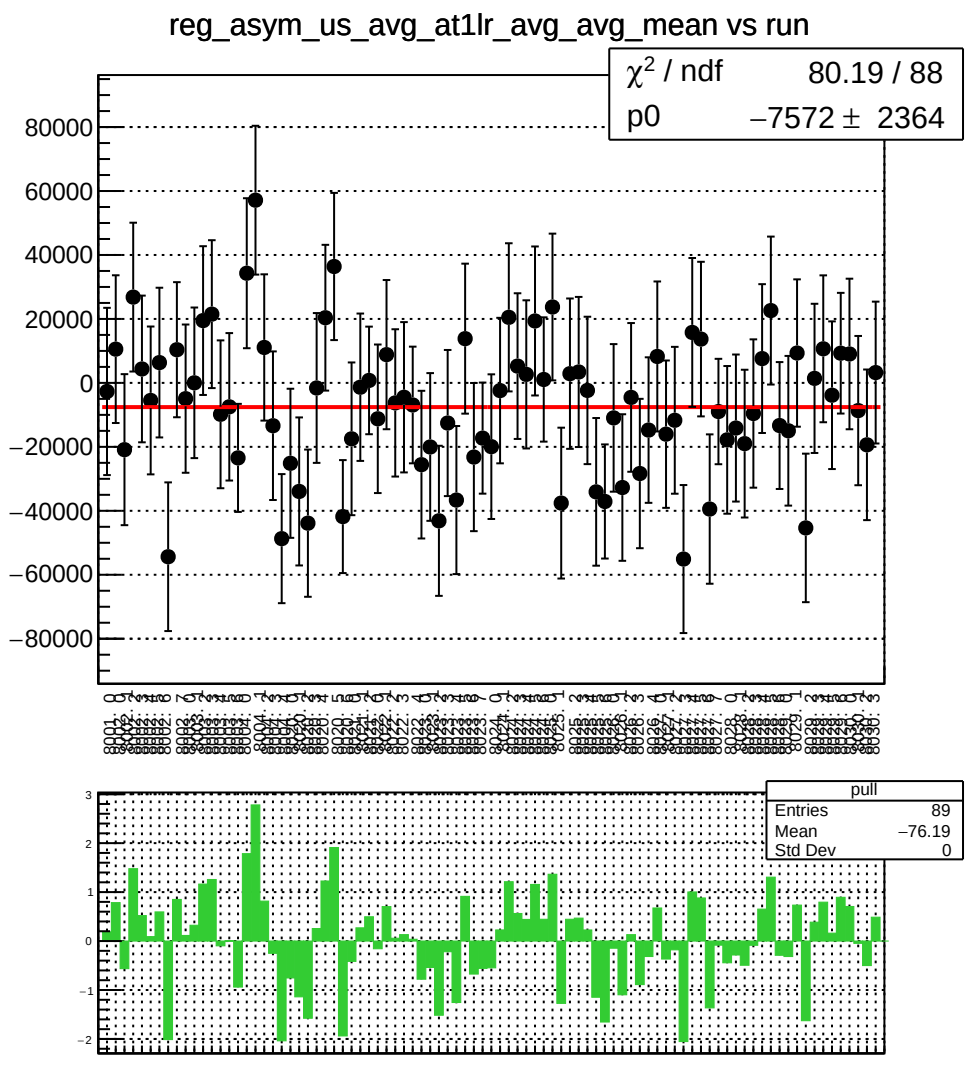

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.327e+04 / 88
p0 206 ± 0.1584
350
300
250
200
150

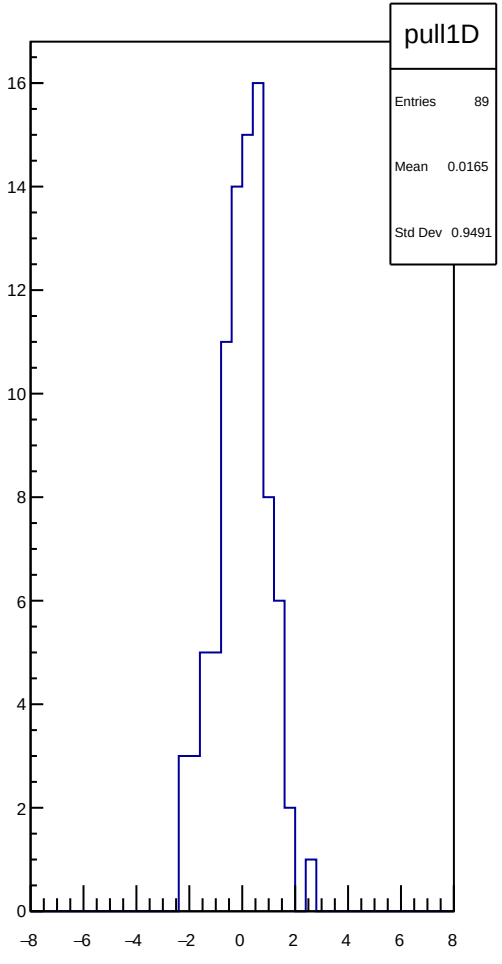

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 118 / 88
p0 −0.1678 ± 0.224
pull
Entries 89
Mean 58.02
Std Dev 0
pull1D
Entries 89
Mean 0.01376
Std Dev 1.151

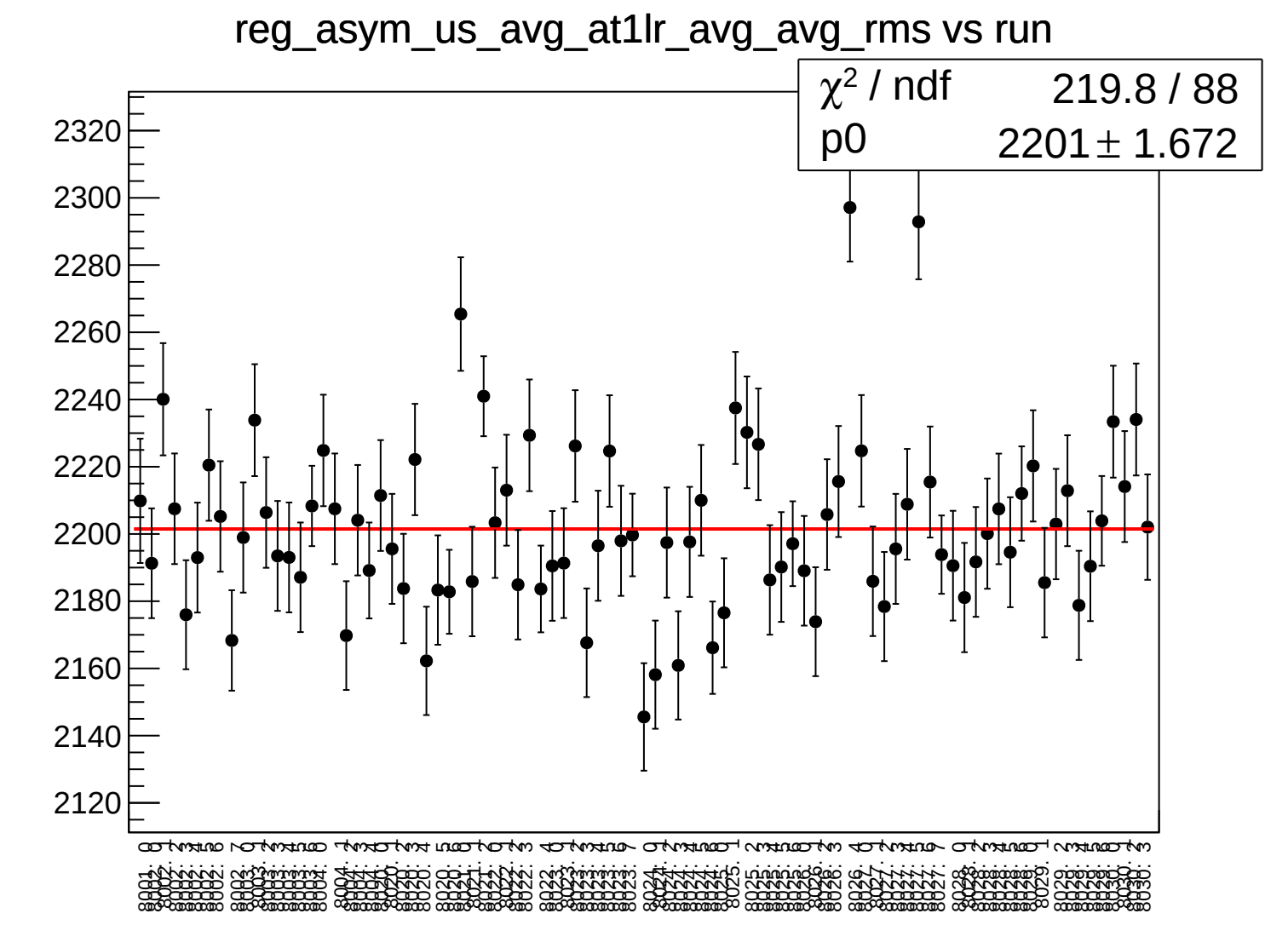

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.327e+04 / 88
p0 206 ± 0.1584
350
300
250
200
150

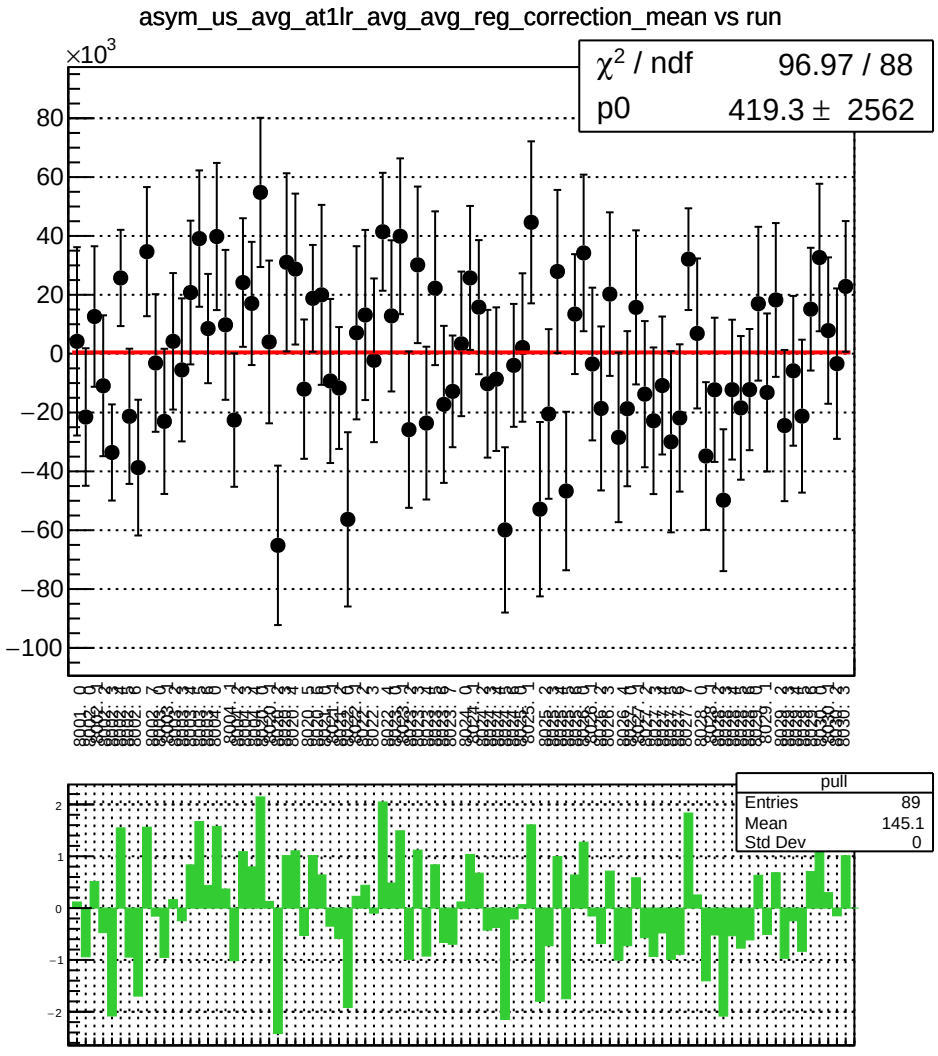

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.2 / 88
p0 −1.405e−13 ± 2.847e−13
pull
Entries 89
Mean 69.97
Std Dev 0
pull1D
Entries 89
Mean 0.0591
Std Dev 1.027

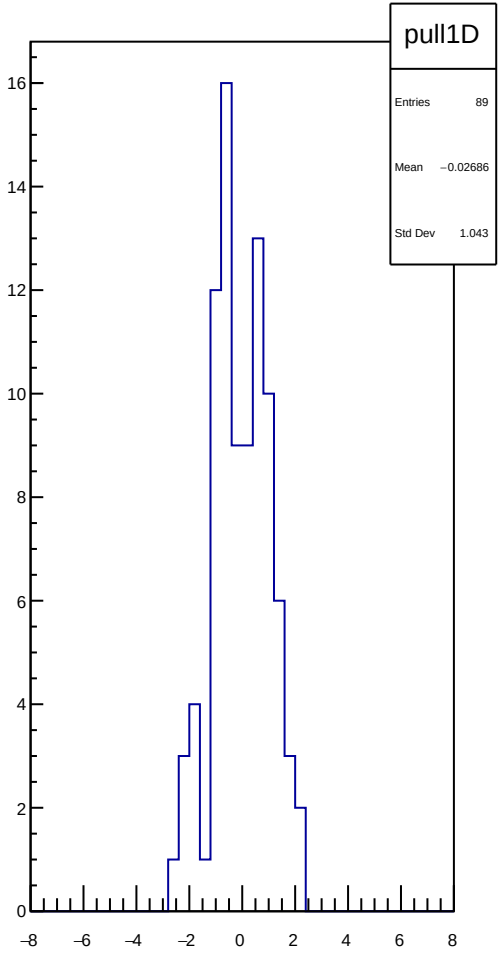

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.021e+05 / 88
p0 1.837e−10 ± 2.013e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

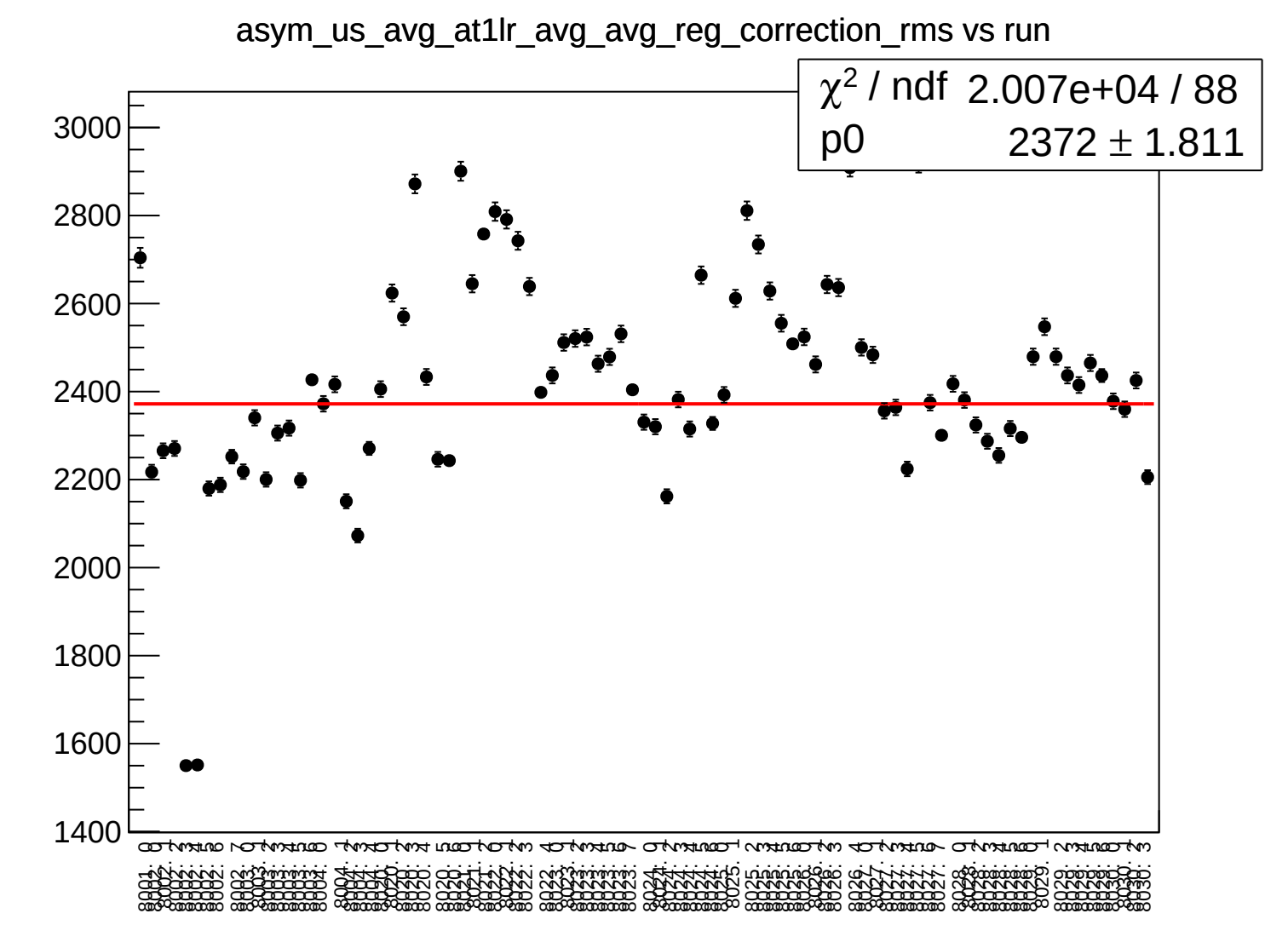

reg_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 80.19 / 88
p0 −7572 ± 2364
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −76.19
Std Dev 0
3
2
1
0
−1
−2

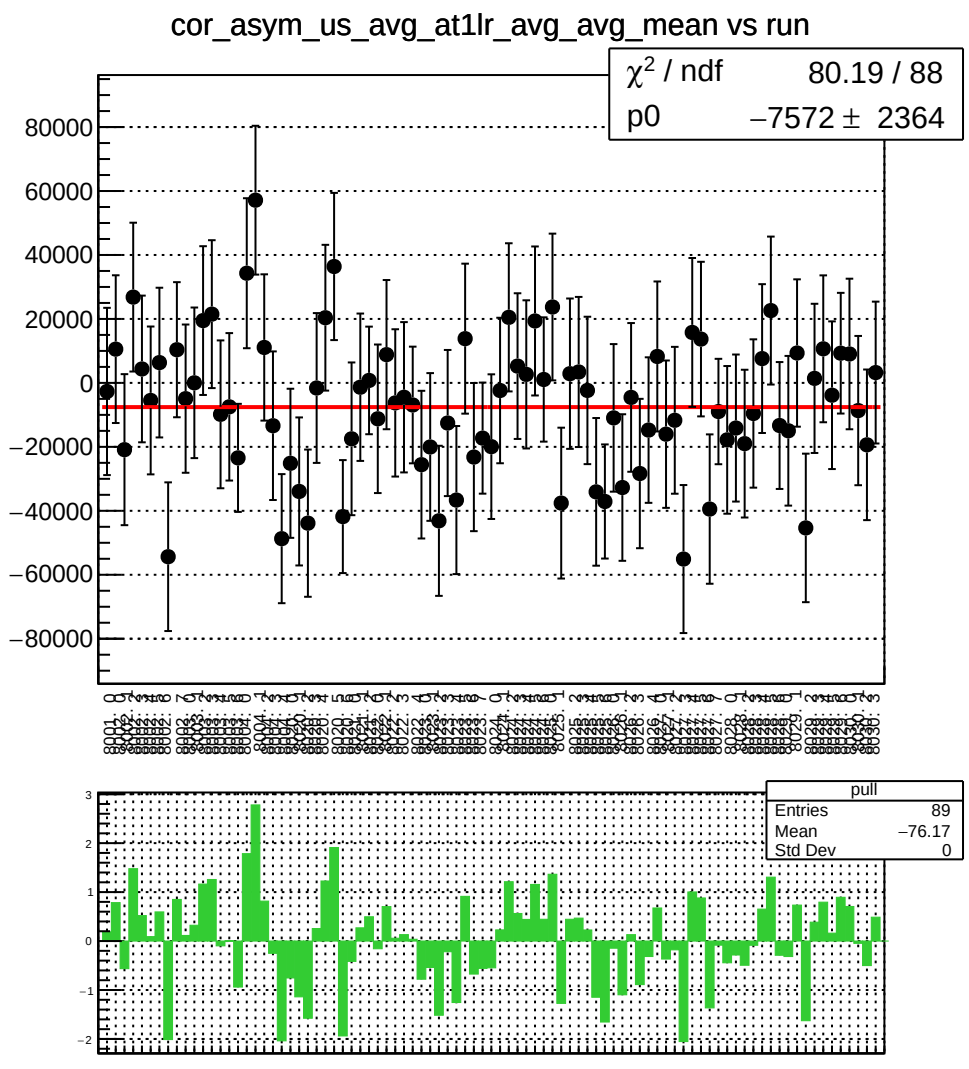

pull1D
Entries 89
Mean 0.0165
Std Dev 0.9491
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

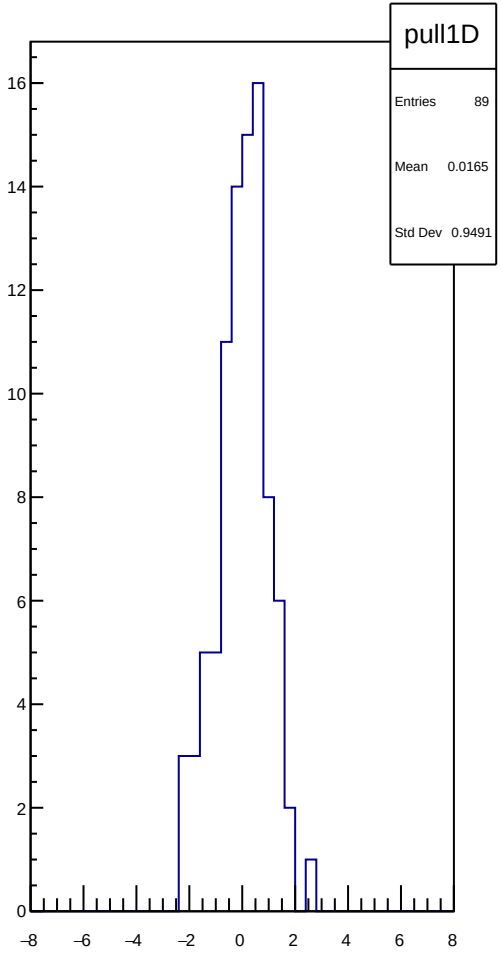

reg_asym_us_avg_at1lr_avg_avg_rms vs run
χ^2 / ndf 219.8 / 88
p0 2201 ± 1.672
2320
2300
2280
2260
2240
2220
2200
2180
2160
2140
2120

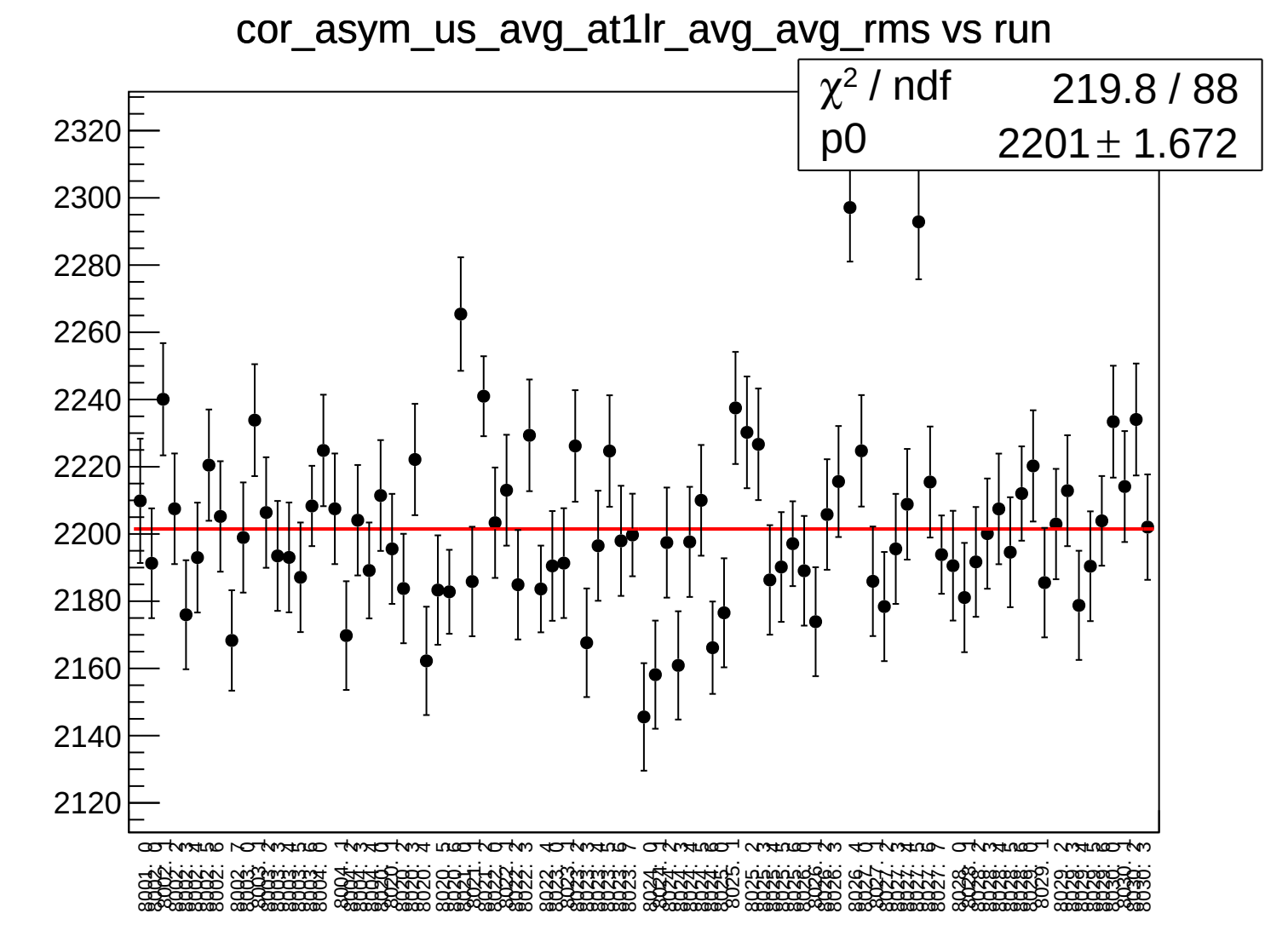

asym_us_avg_at1lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 96.97 / 88
p0 419.3 ± 2562
pull
Entries 89
Mean 145.1
Std Dev 0

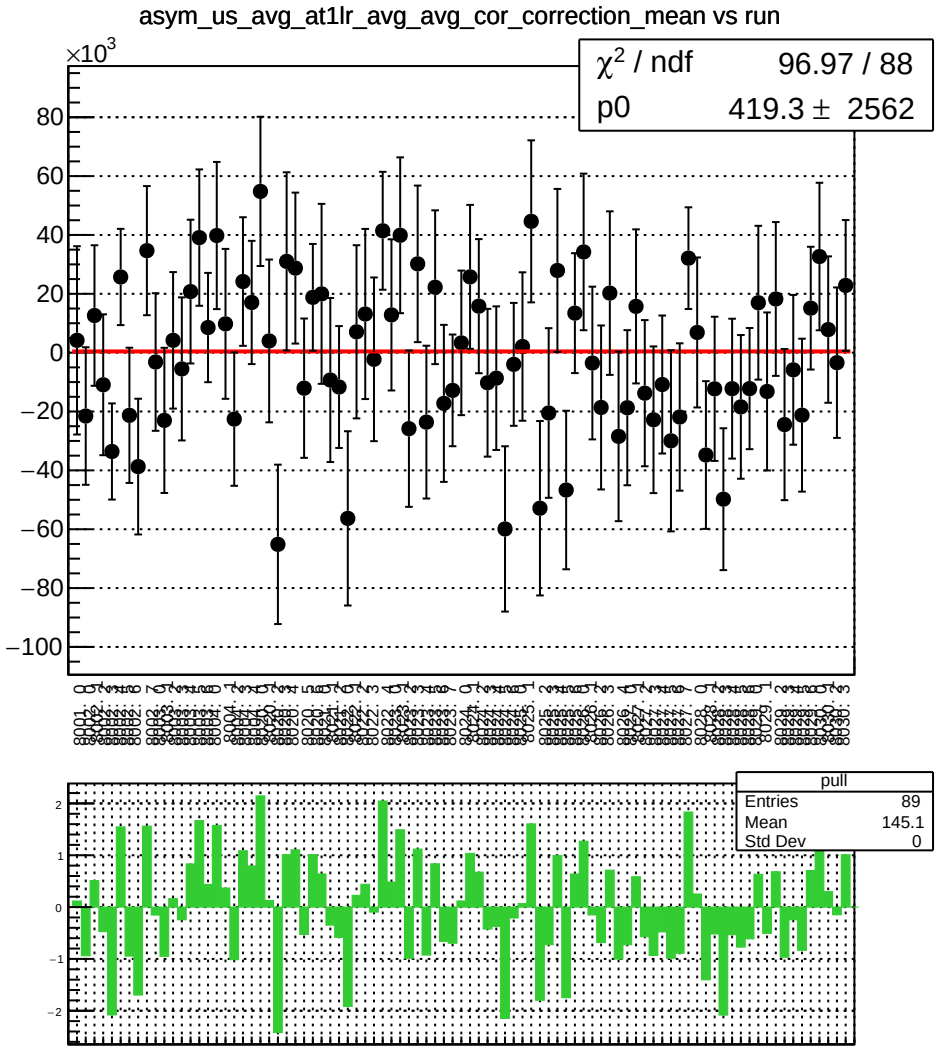

pull1D
Entries 89
Mean −0.02686
Std Dev 1.043

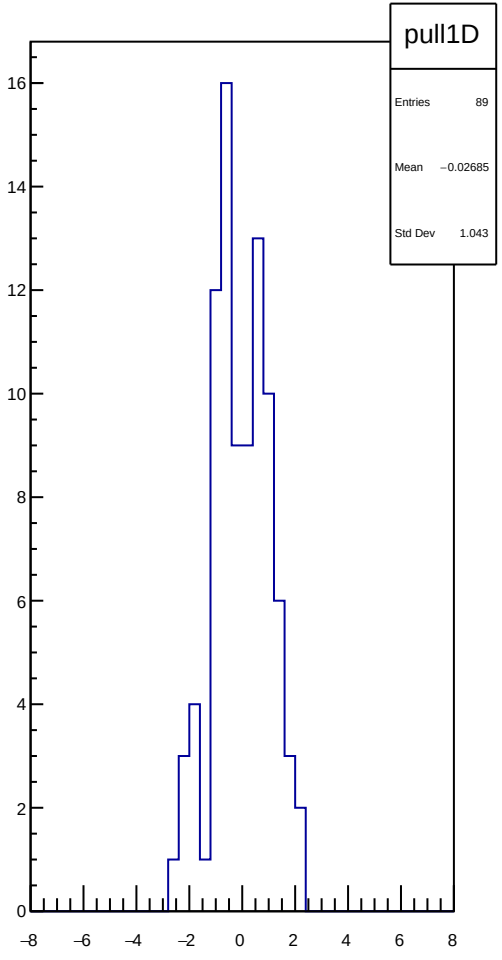

asym_us_avg_at1lr_avg_avg_reg_correction_rms vs run
χ² / ndf 2.007e+04 / 88
p0 2372 ± 1.811
3000
2800
2600
2400
2200
2000
1800
1600
1400

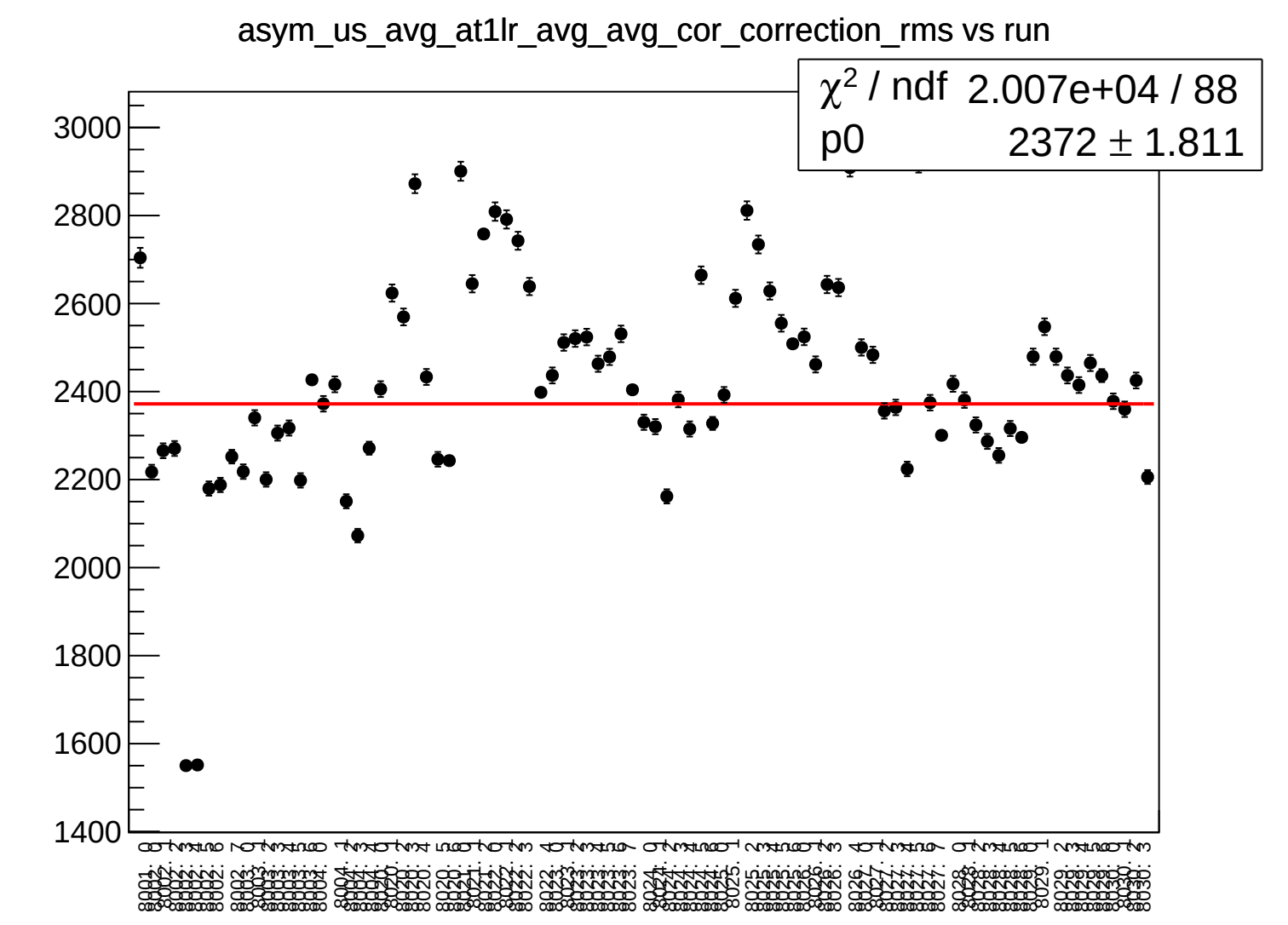

cor_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 80.19 / 88
p0 −7572 ± 2364
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −76.17
Std Dev 0
3
2
1
0
−1
−2

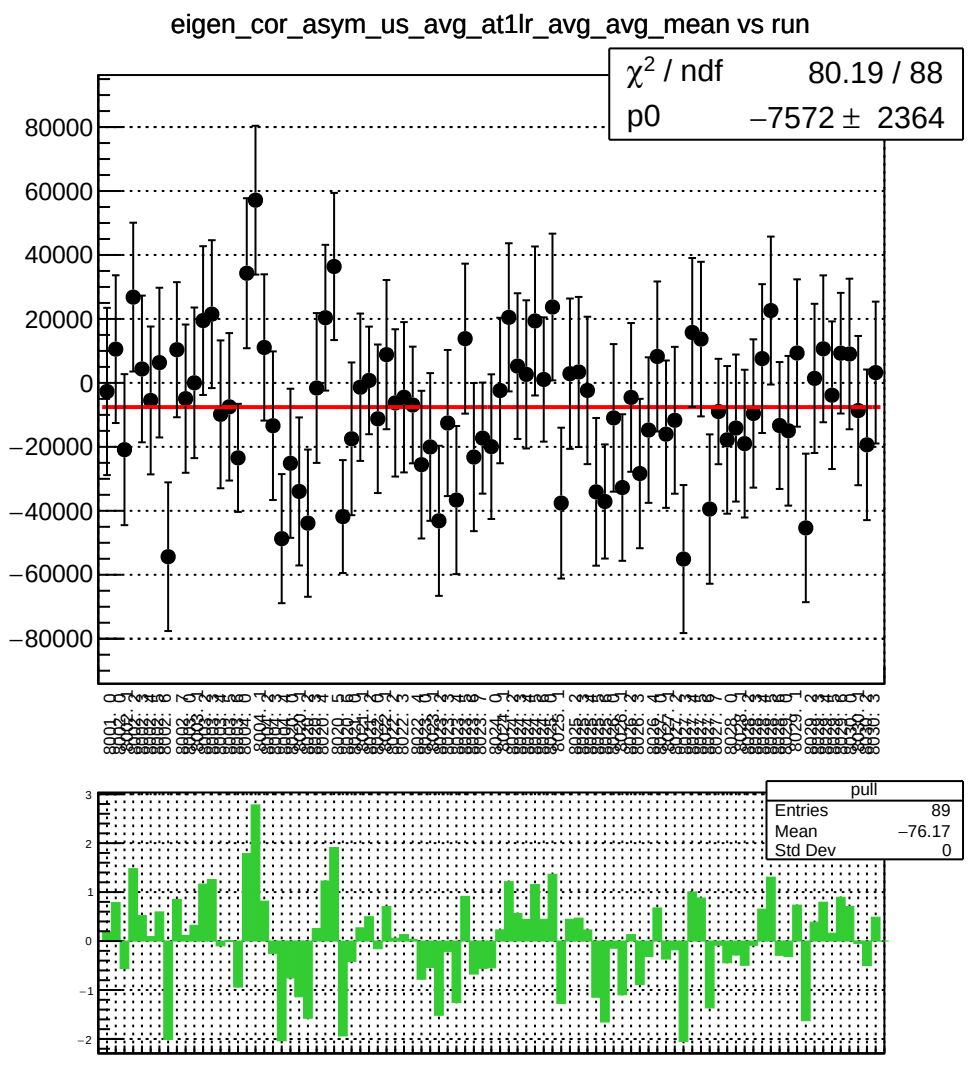

pull1D
Entries 89
Mean 0.0165
Std Dev 0.9491
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

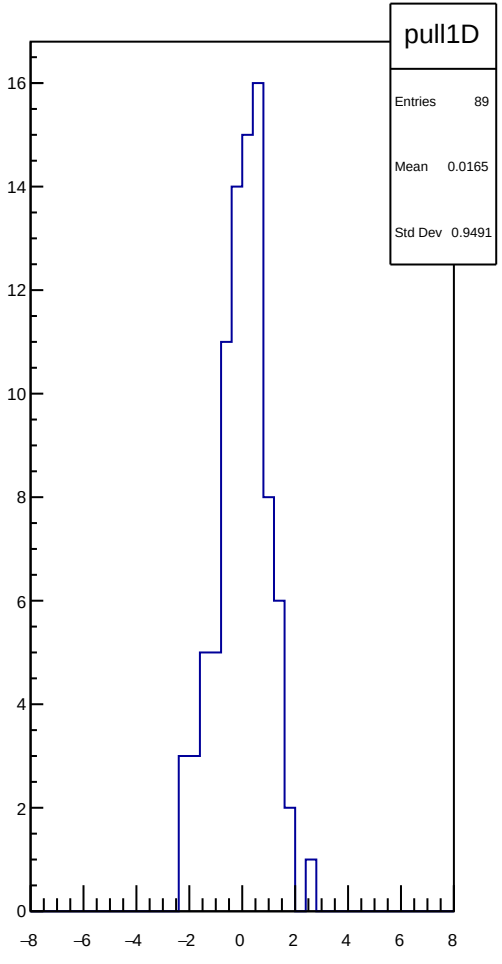

cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ^2 / ndf 219.8 / 88
p0 2201 ± 1.672
2320
2300
2280
2260
2240
2220
2200
2180
2160
2140
2120

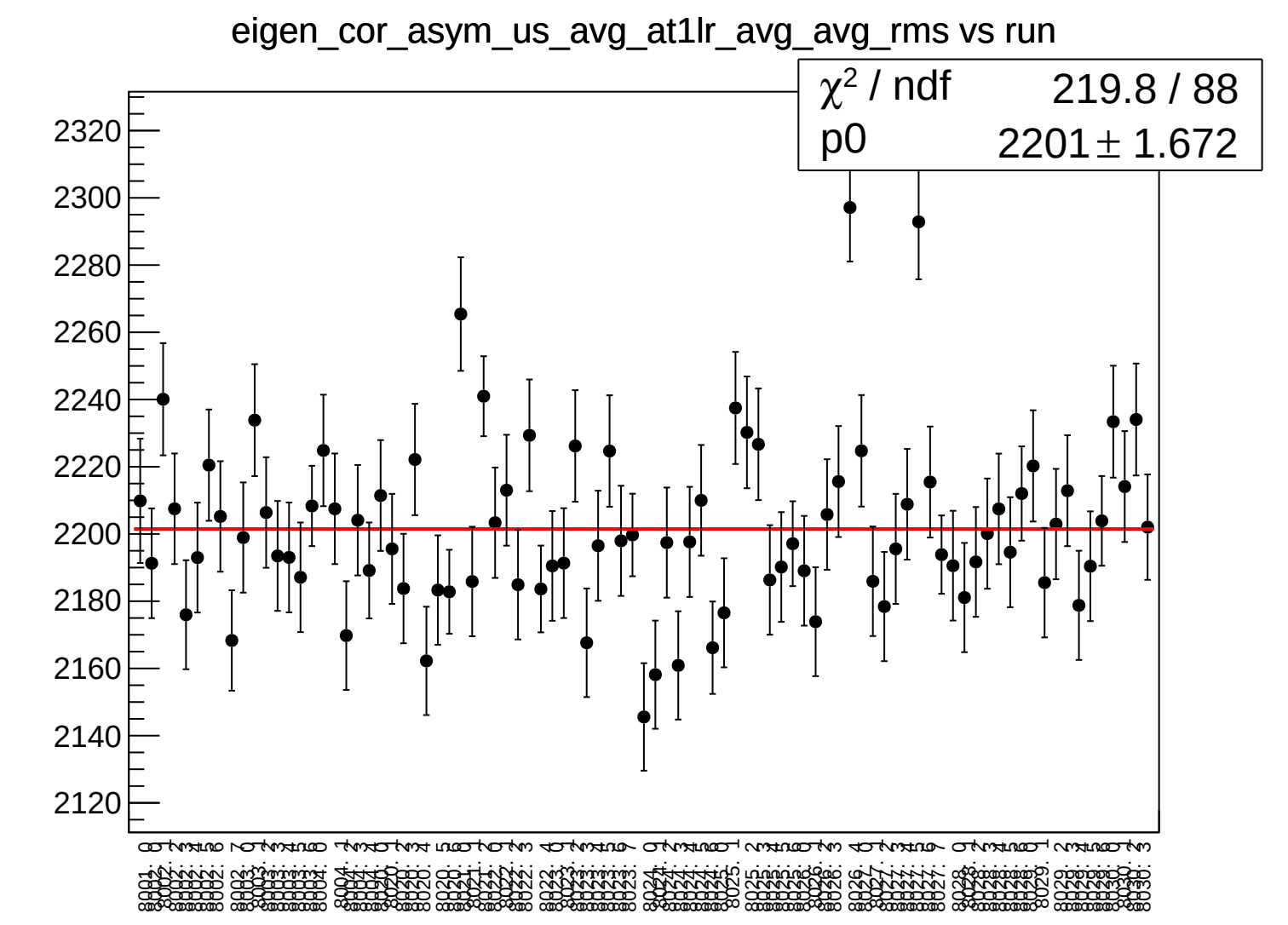

asym_us_avg_at1lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 96.97 / 88
p0 419.3 ± 2562
pull
Entries 89
Mean 145.1
Std Dev 0

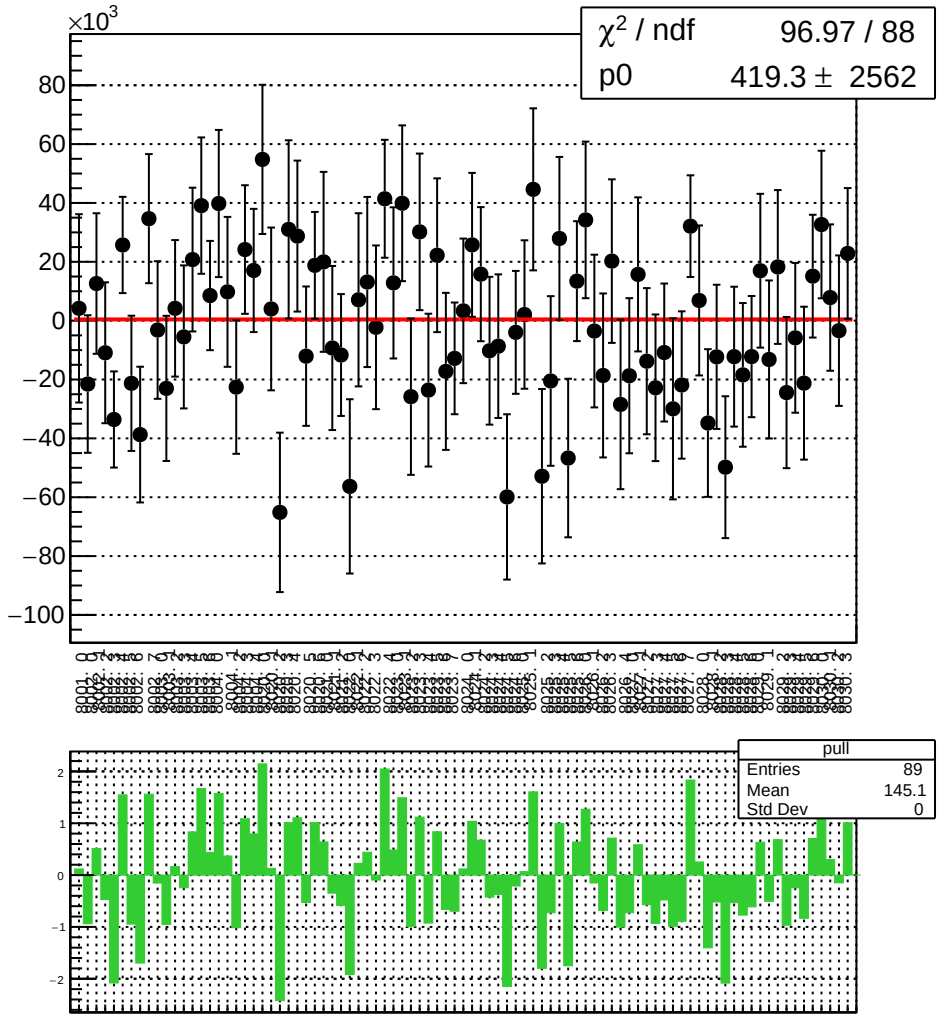

pull1D
Entries 89
Mean −0.02685
Std Dev 1.043

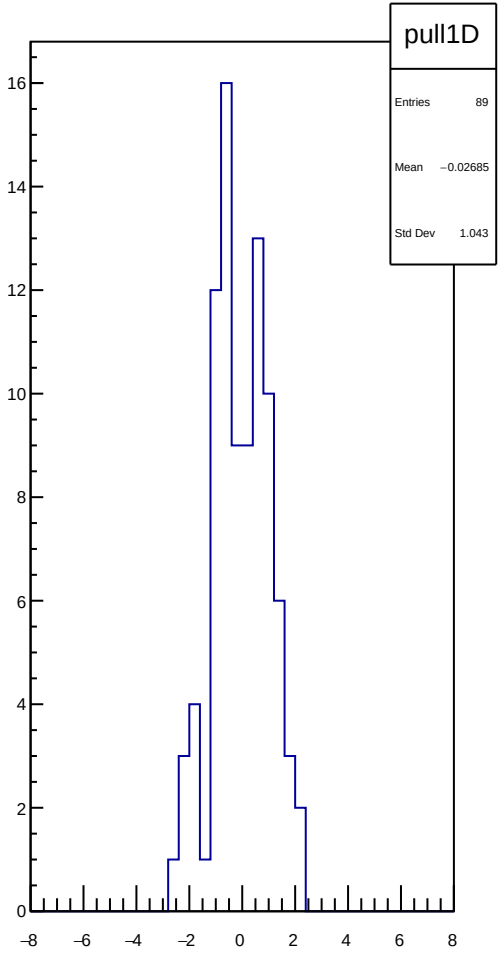

asym_us_avg_at1lr_avg_avg_cor_correction_rms vs run
χ² / ndf 2.007e+04 / 88
p0 2372 ± 1.811
3000
2800
2600
2400
2200
2000
1800
1600
1400

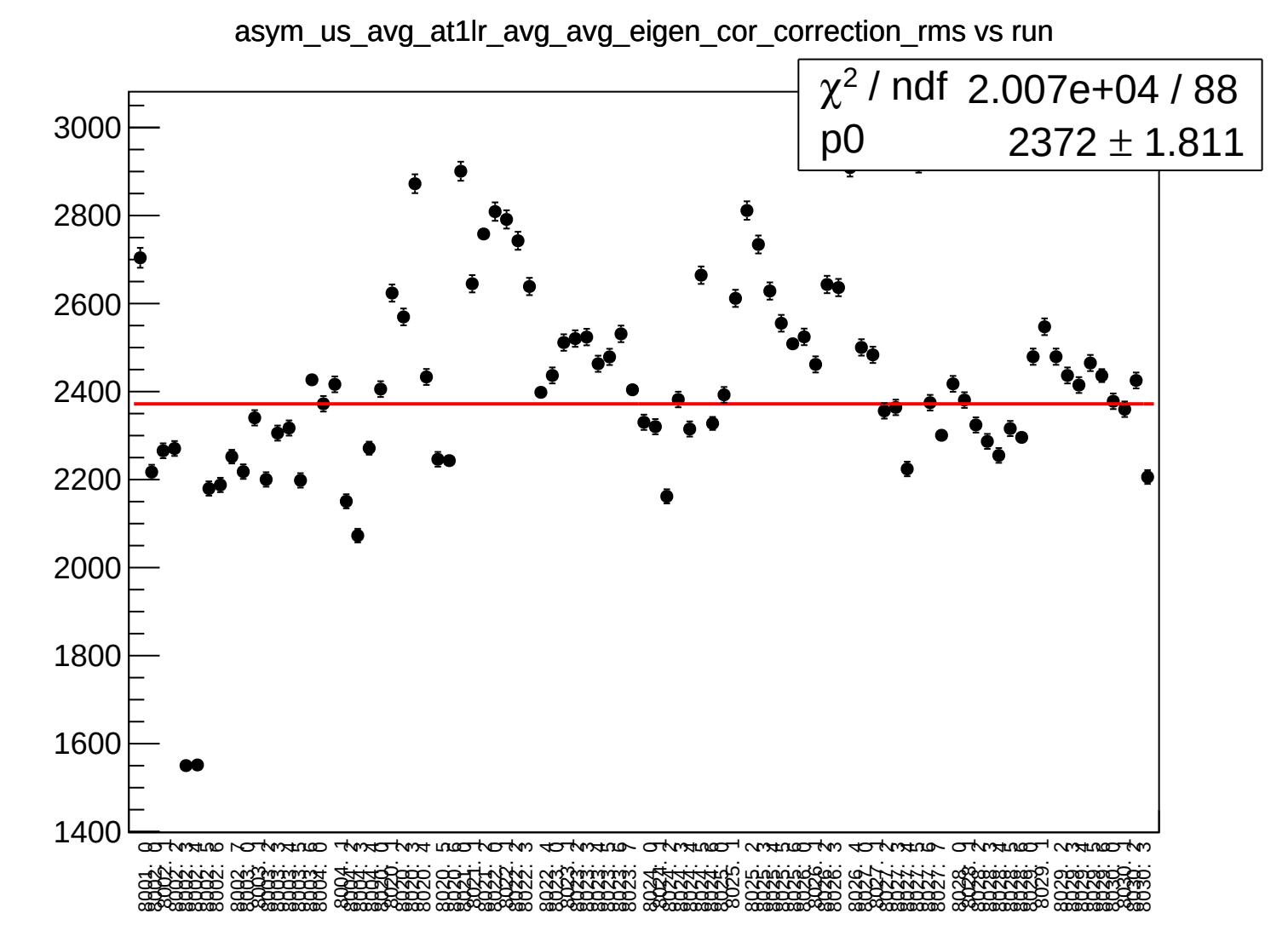

eigen_cor_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 80.19 / 88
p0 −7572 ± 2364
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −76.17
Std Dev 0
3
2
1
0
−1
−2

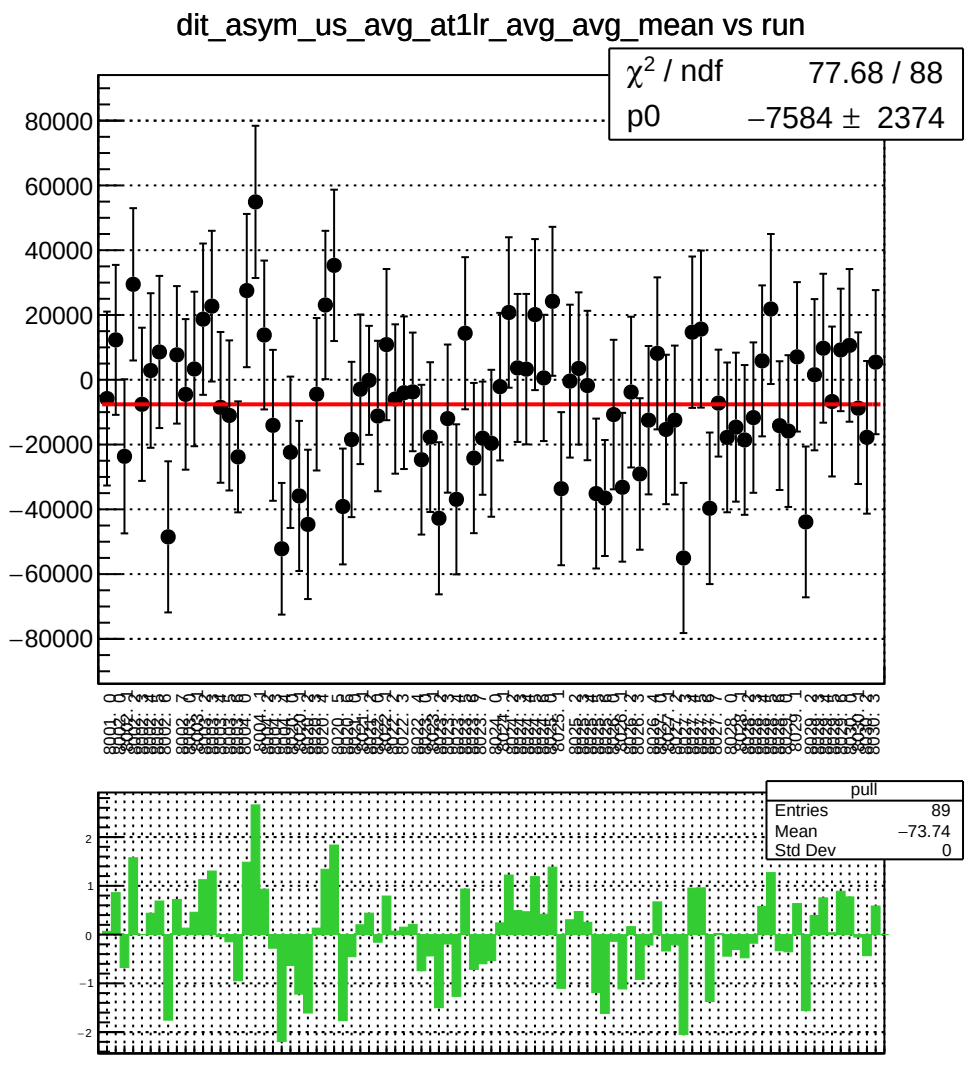

pull1D
Entries 89
Mean 0.0165
Std Dev 0.9491
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

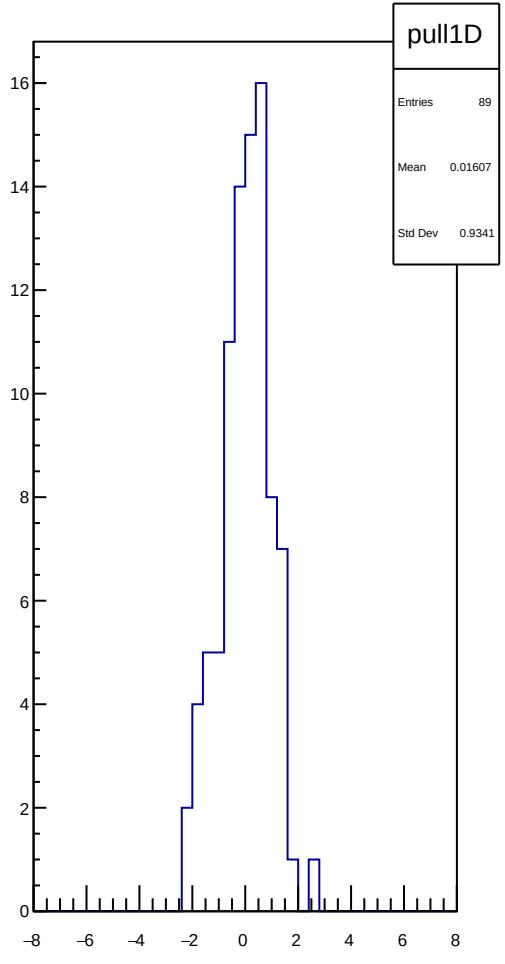

eigen_cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 219.8 / 88
p0 2201 ± 1.672
2320
2300
2280
2260
2240
2220
2200
2180
2160
2140
2120

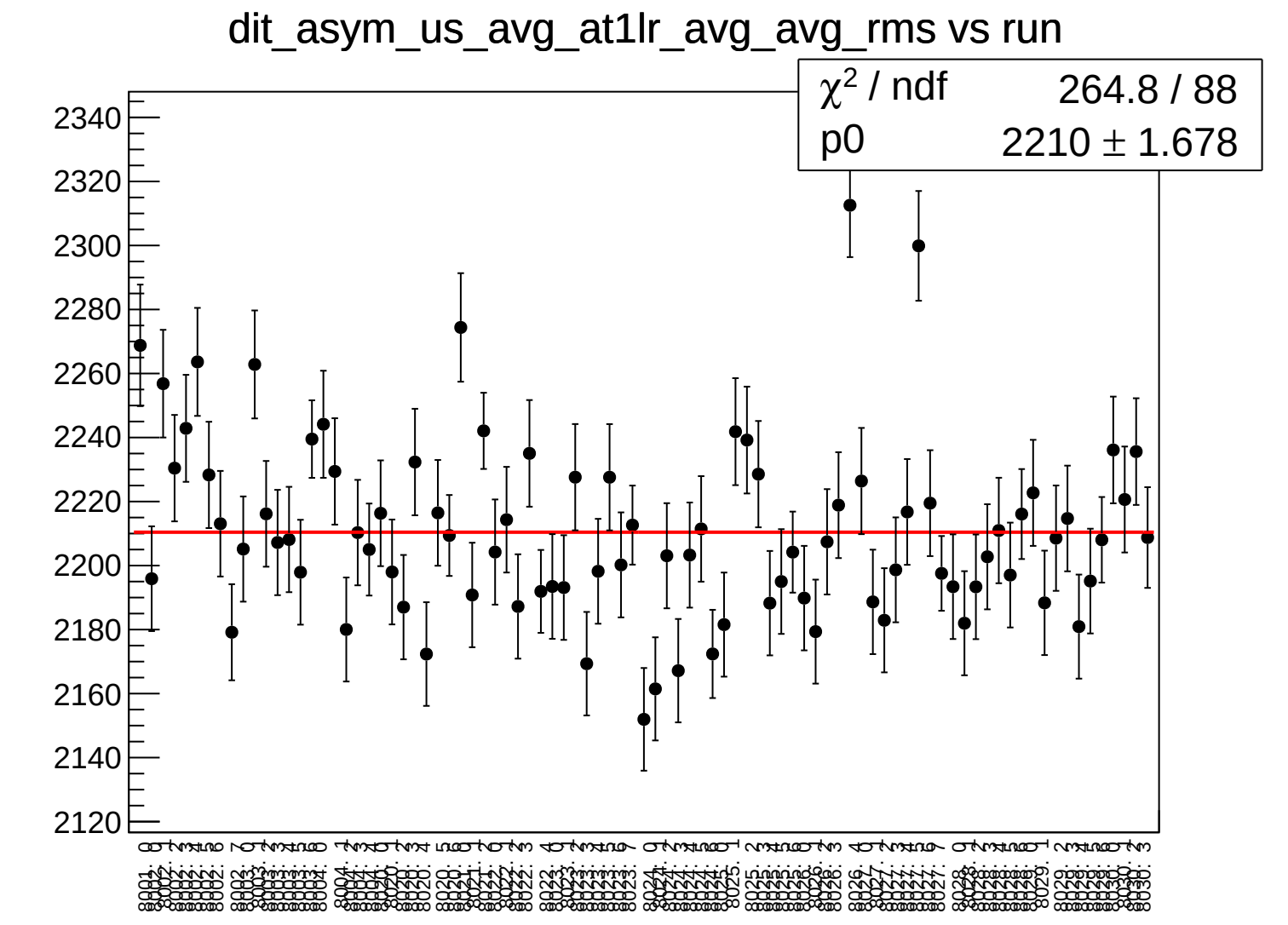

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 96.97 / 88
p0 419.3 ± 2562
pull
Entries 89
Mean 145.1
Std Dev 0

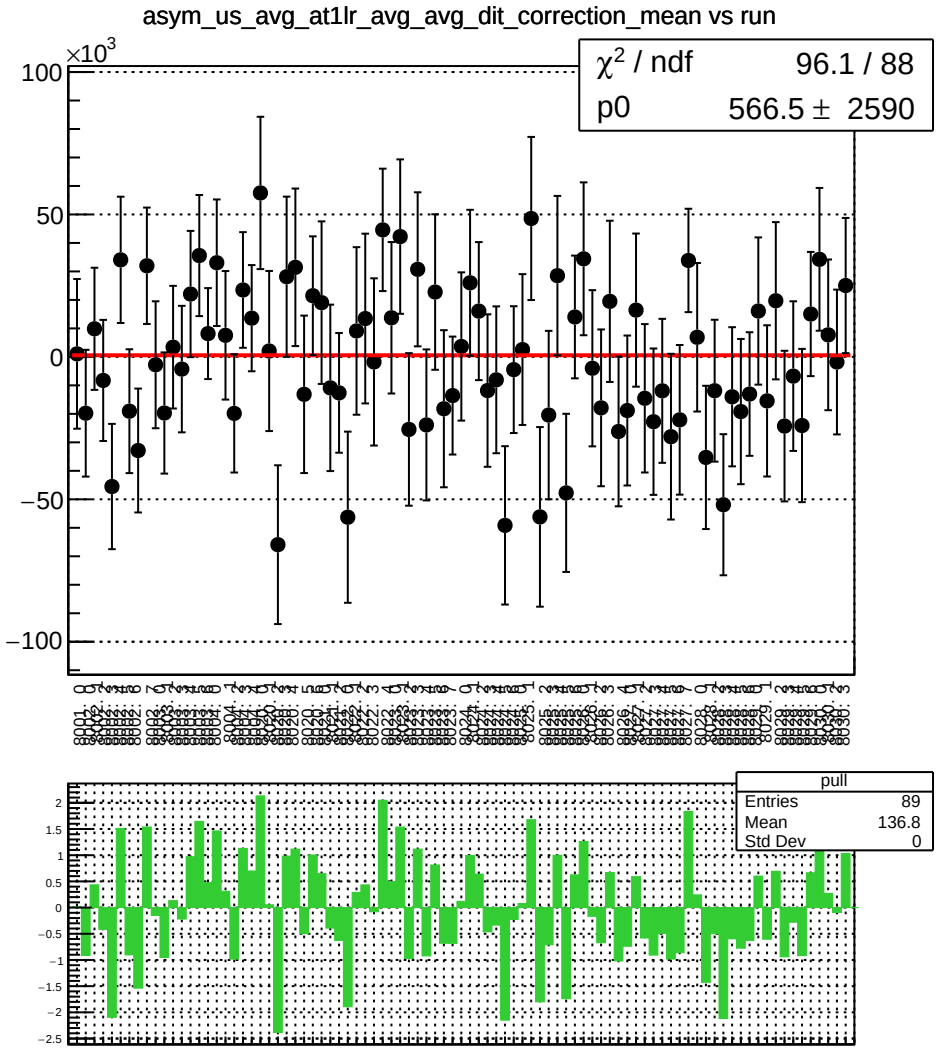

pull1D
Entries 89
Mean −0.02685
Std Dev 1.043

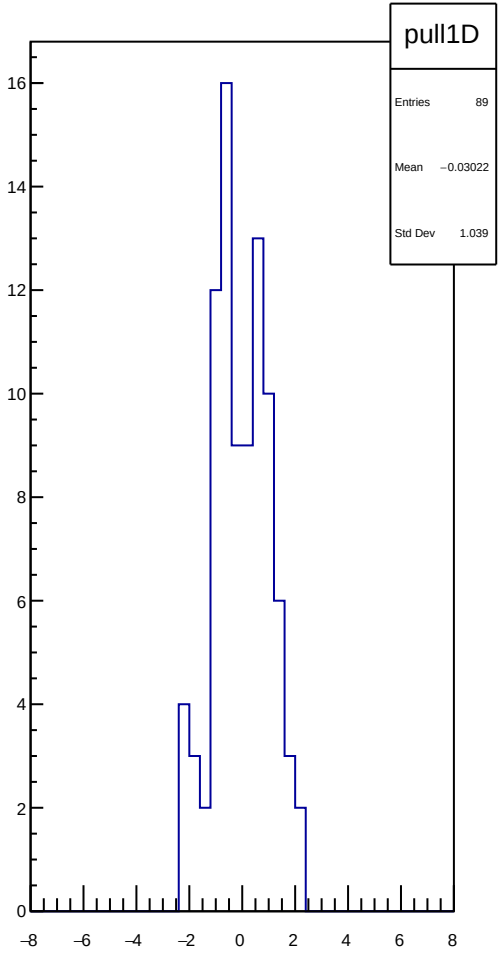

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.007e+04 / 88
p0 2372 ± 1.811
3000
2800
2600
2400
2200
2000
1800
1600
1400

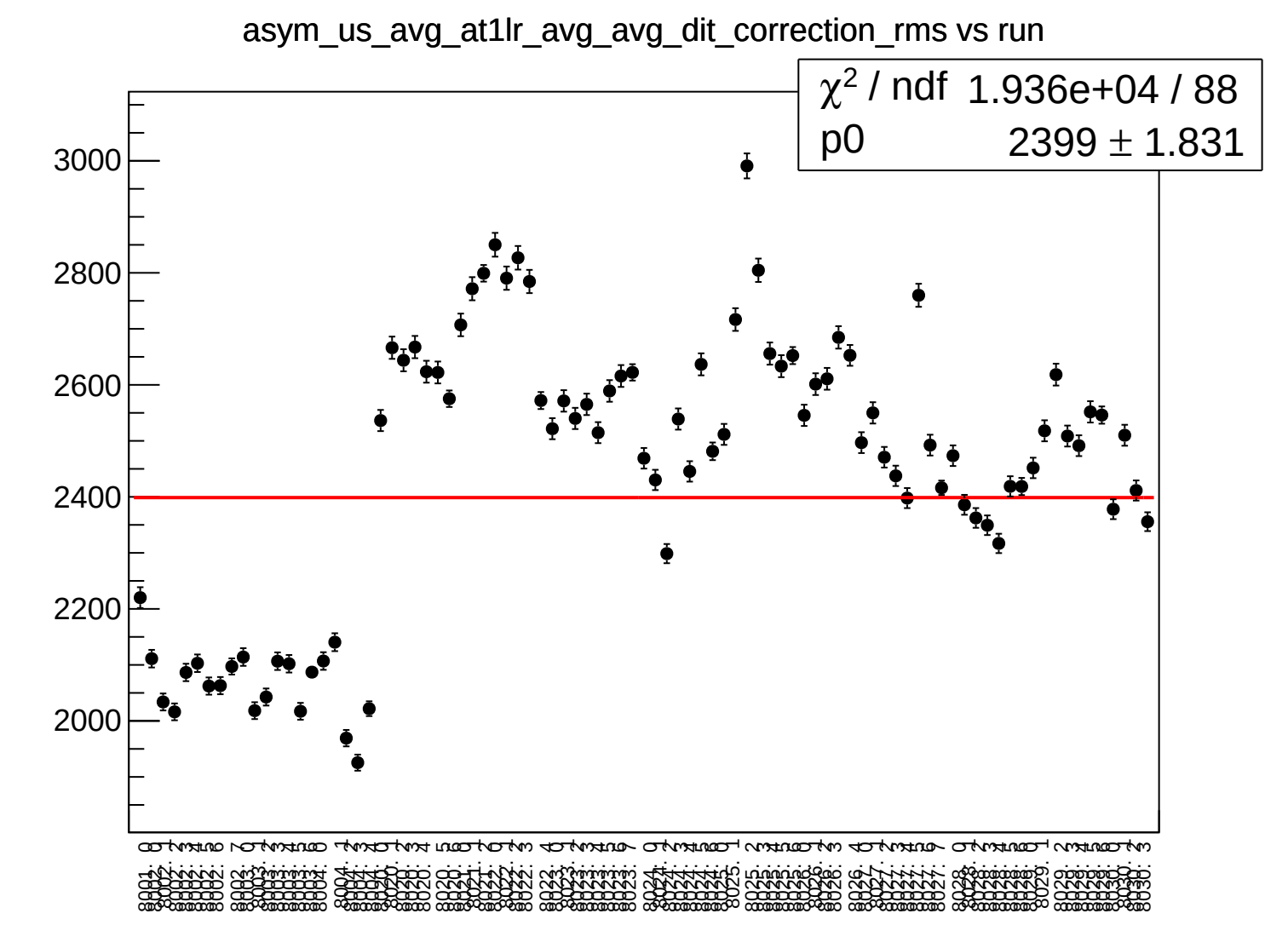

dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 77.68 / 88
p0 −7584 ± 2374
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −73.74
Std Dev 0
2
1
0
−1
−2

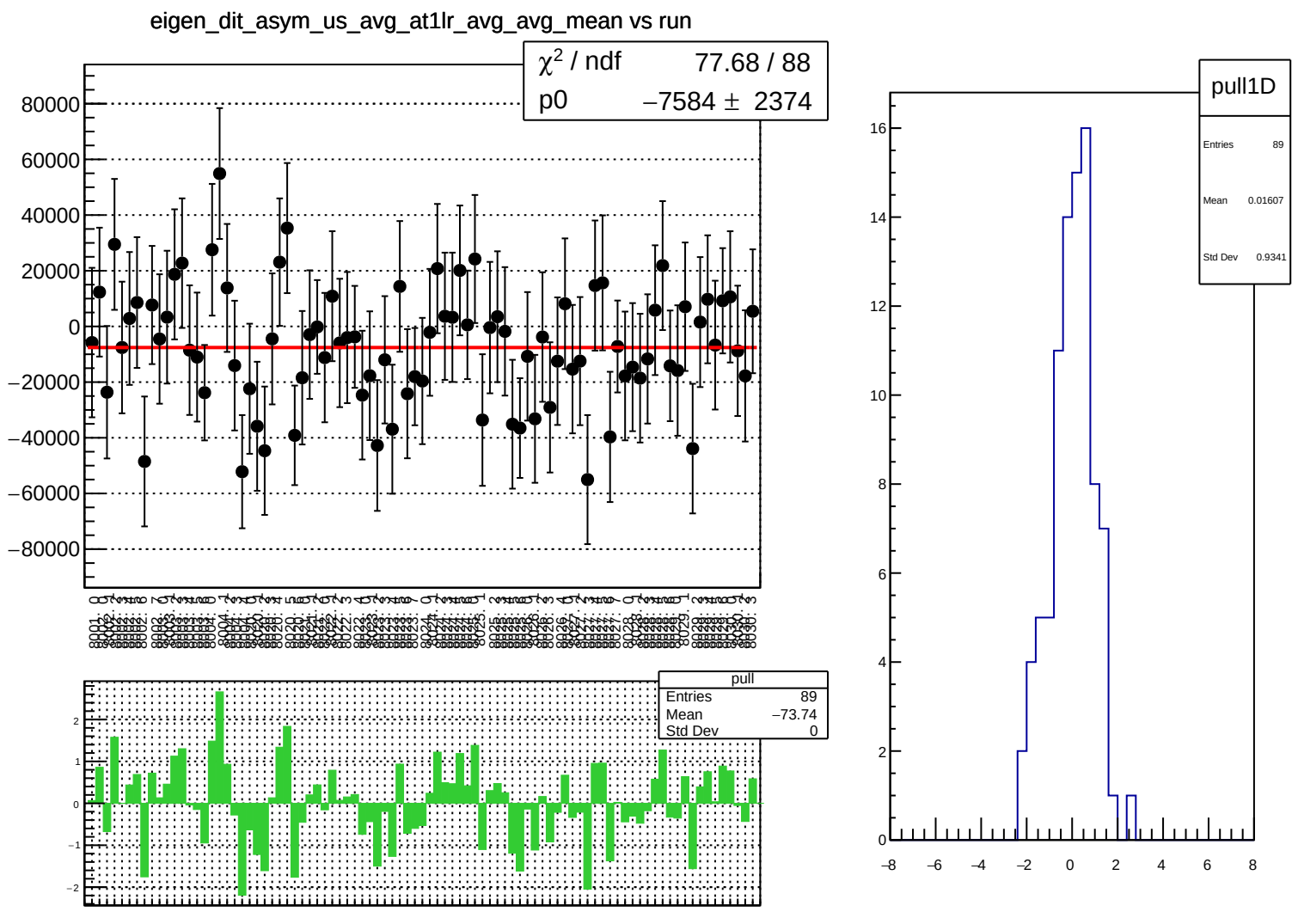

pull1D
Entries 89
Mean 0.01607
Std Dev 0.9341
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

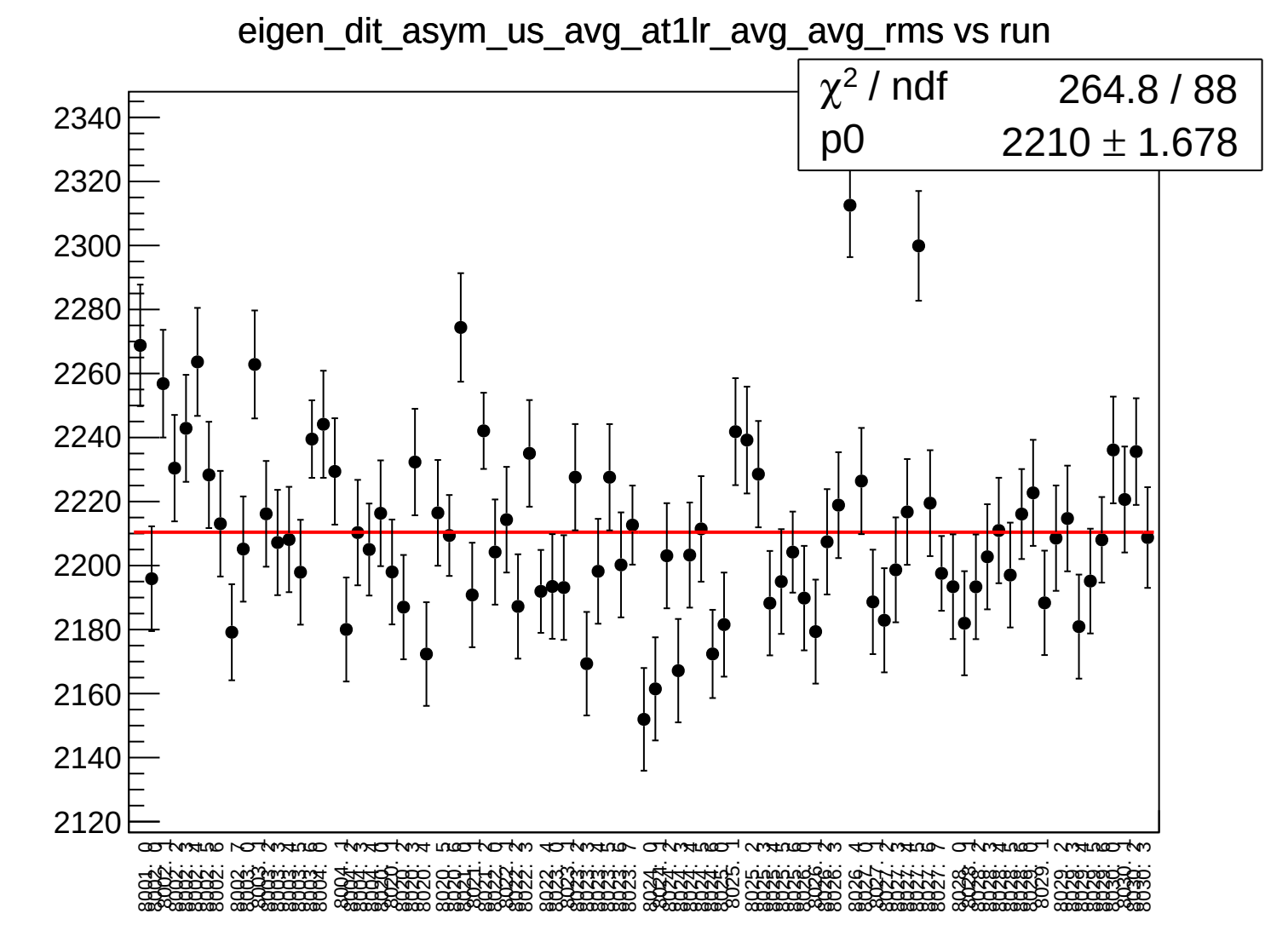

dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 264.8 / 88
p0 2210 ± 1.678
2340
2320
2300
2280
2260
2240
2220
2200
2180
2160
2140
2120

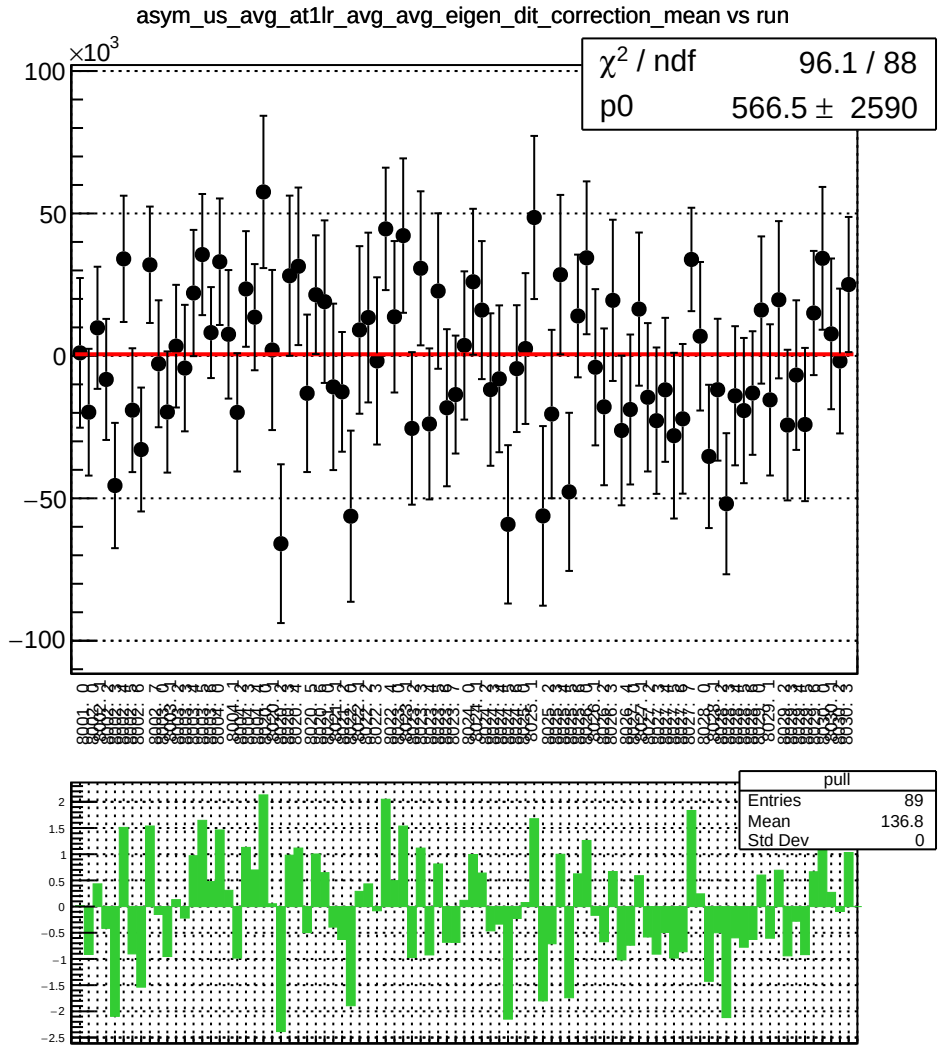

asym_us_avg_at1lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 96.1 / 88
p0 566.5 ± 2590
pull
Entries 89
Mean 136.8
Std Dev 0

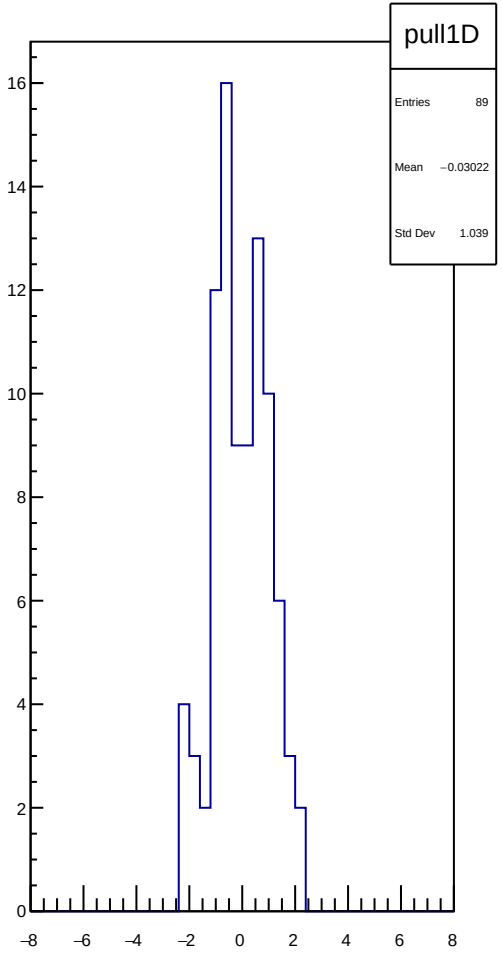

pull1D
Entries 89
Mean −0.03022
Std Dev 1.039

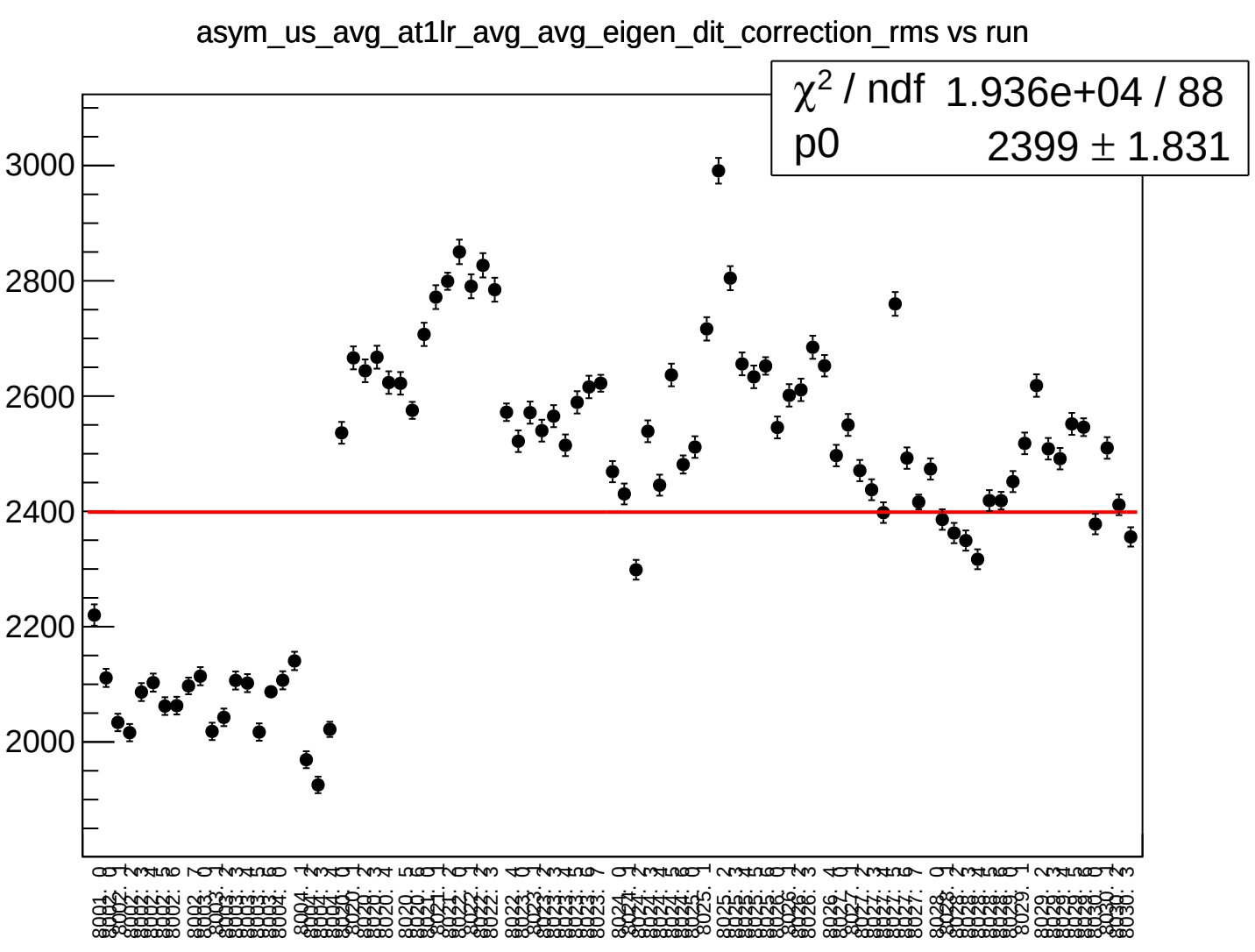

asym_us_avg_at1lr_avg_avg_dit_correction_rms vs run
χ² / ndf 1.936e+04 / 88
p0 2399 ± 1.831
3000
2800
2600
2400
2200
2000

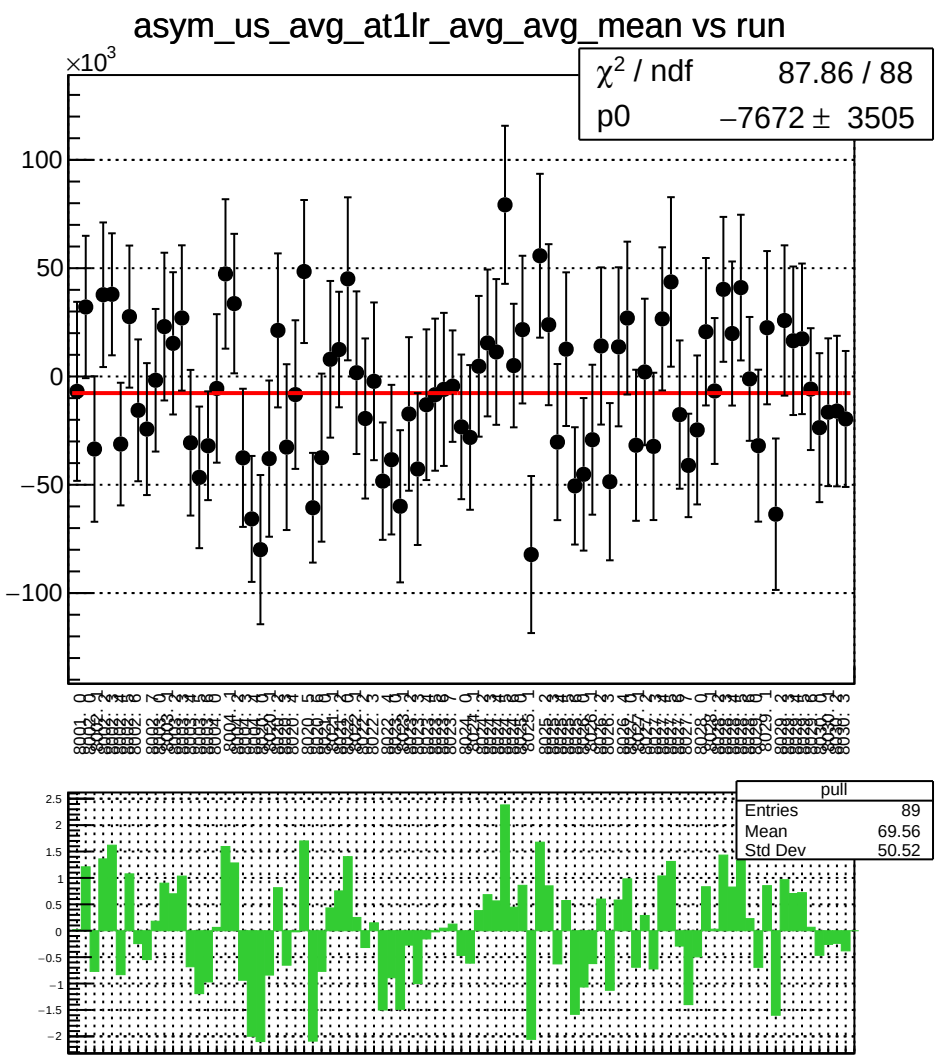

eigen_dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 77.68 / 88
p0 −7584 ± 2374
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −73.74
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.01607
Std Dev 0.9341
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

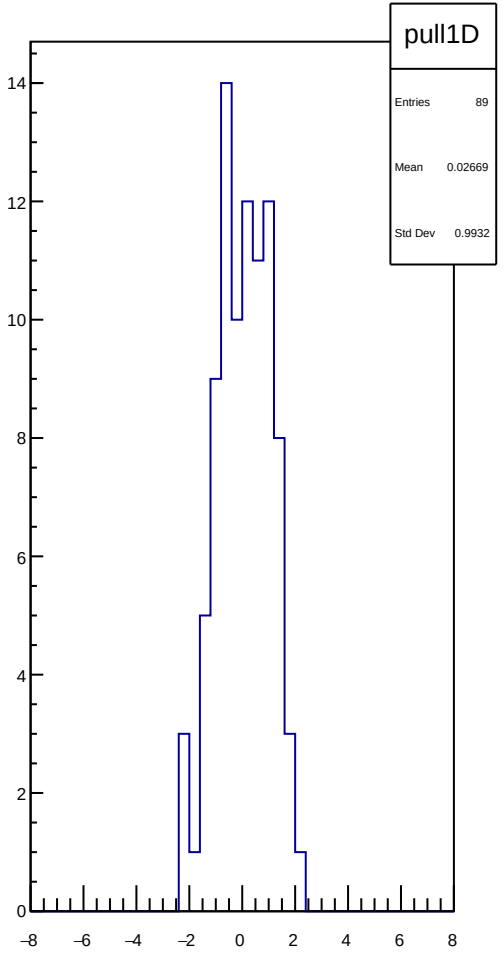

eigen_dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 264.8 / 88
p0 2210 ± 1.678
2340
2320
2300
2280
2260
2240
2220
2200
2180
2160
2140
2120

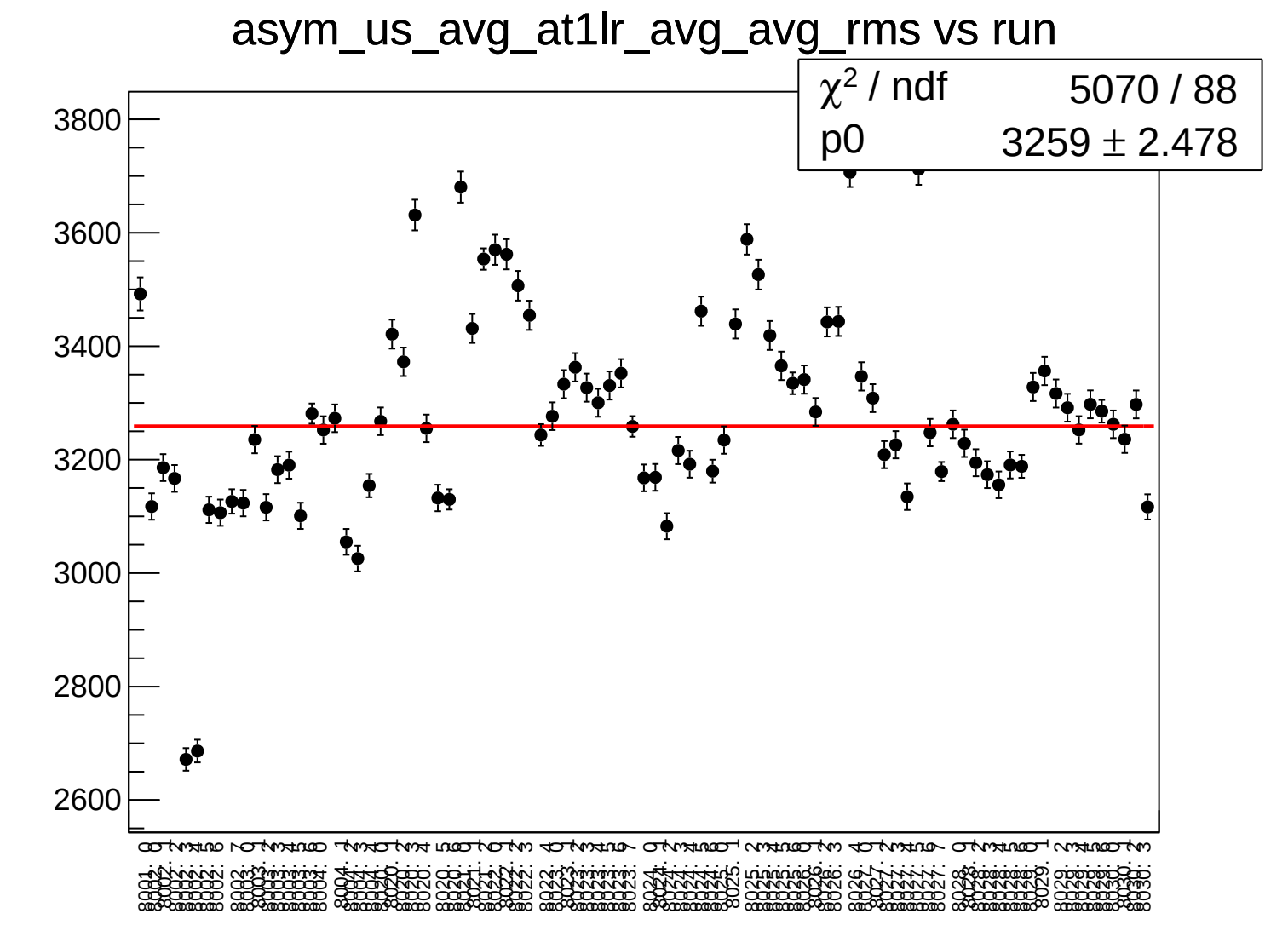

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 96.1 / 88
p0 566.5 ± 2590
pull
Entries 89
Mean 136.8
Std Dev 0

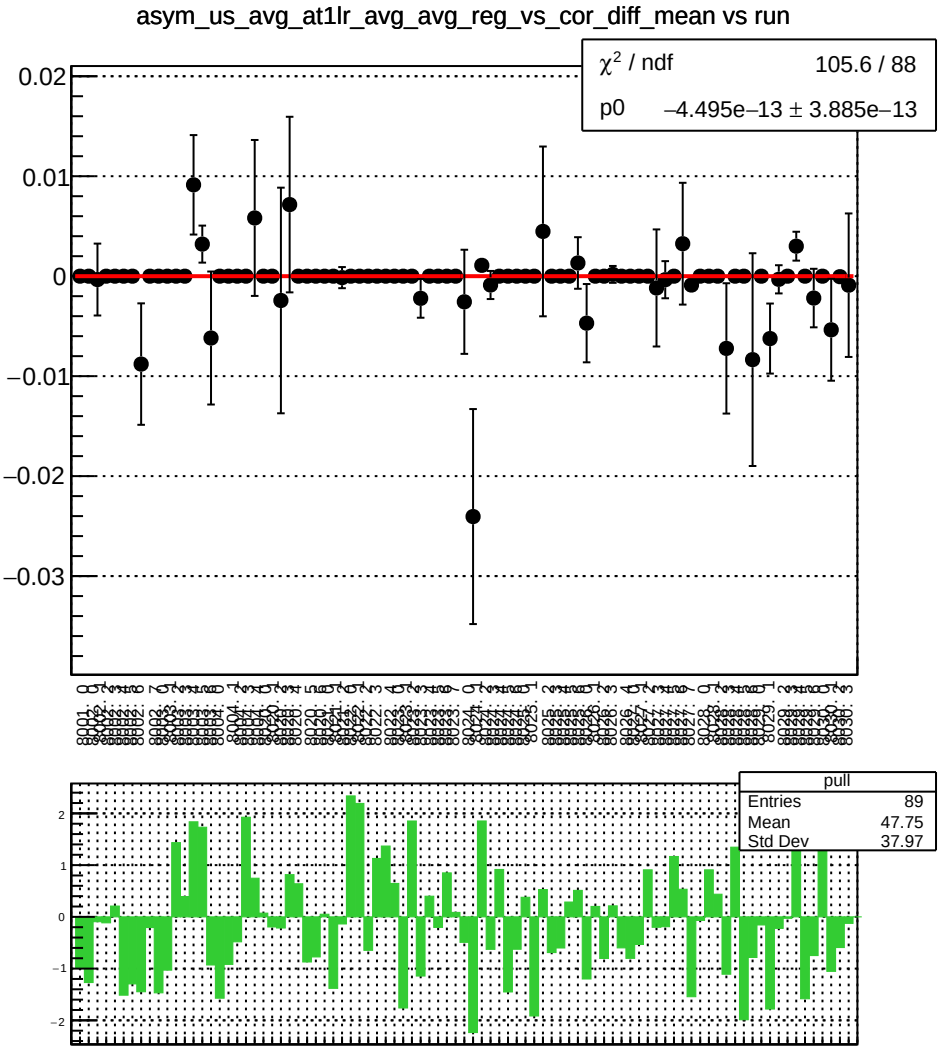

pull1D
Entries 89
Mean −0.03022
Std Dev 1.039

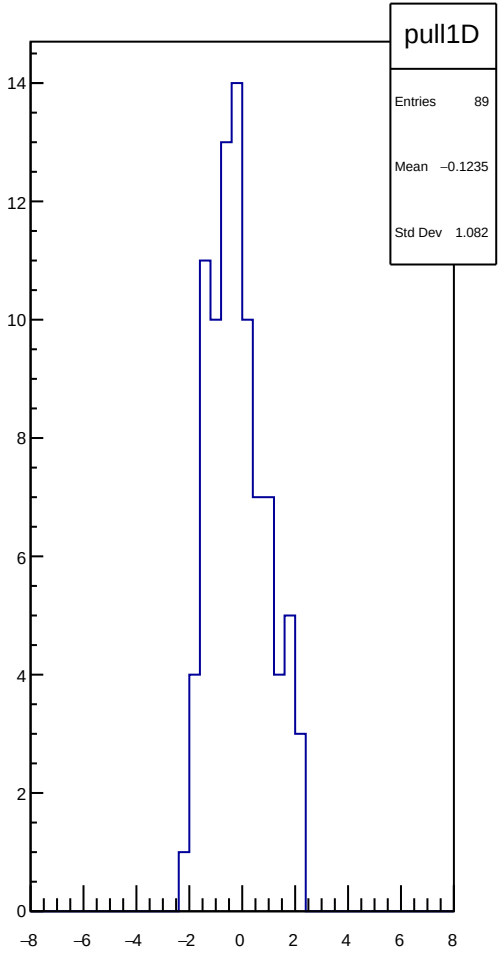

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.936e+04 / 88
p0 2399 ± 1.831
3000
2800
2600
2400
2200
2000

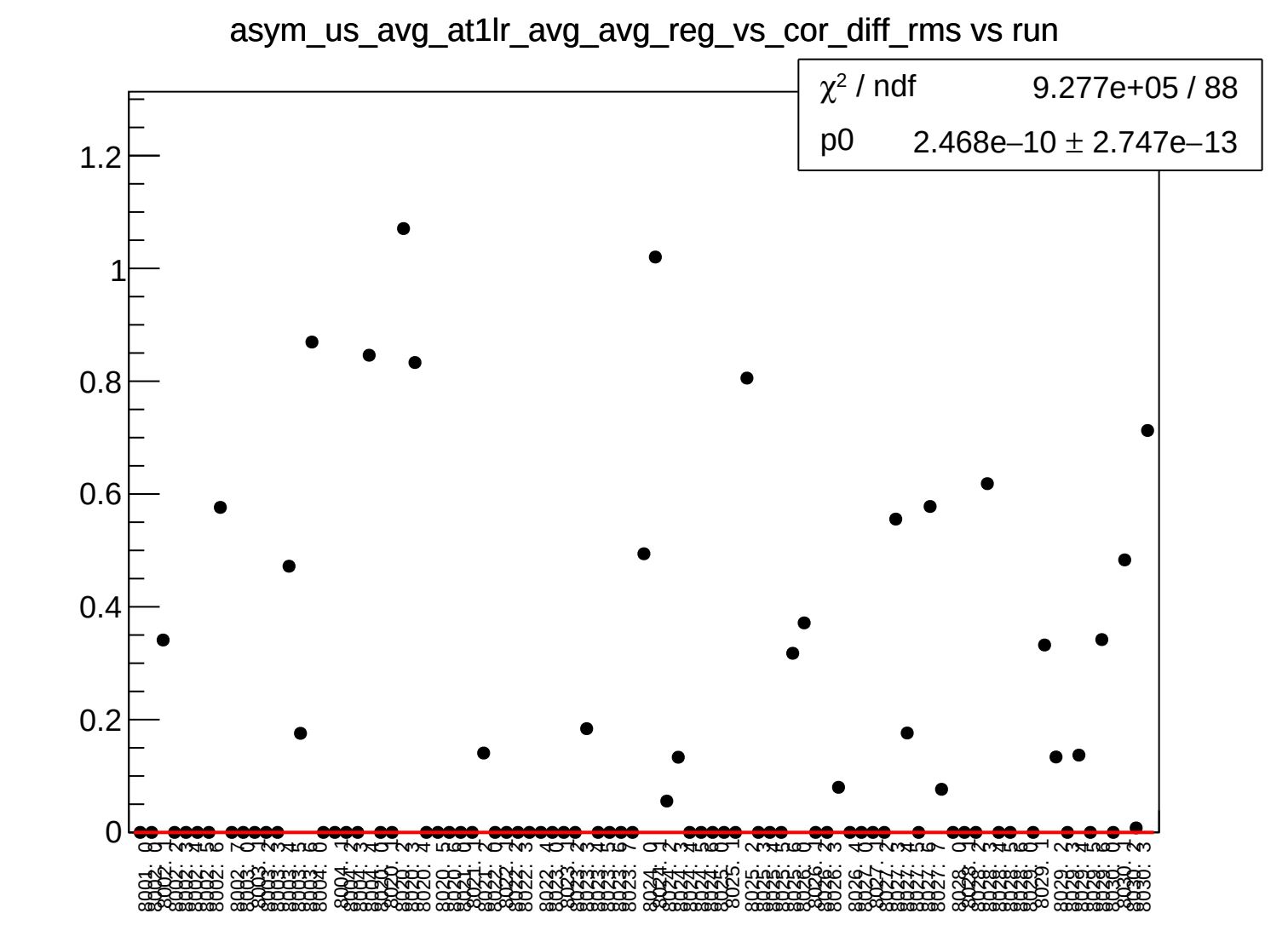

asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 87.86 / 88
p0 −7672 ± 3505
100
50
0
−50
−100
pull
Entries 89
Mean 69.56
Std Dev 50.52
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

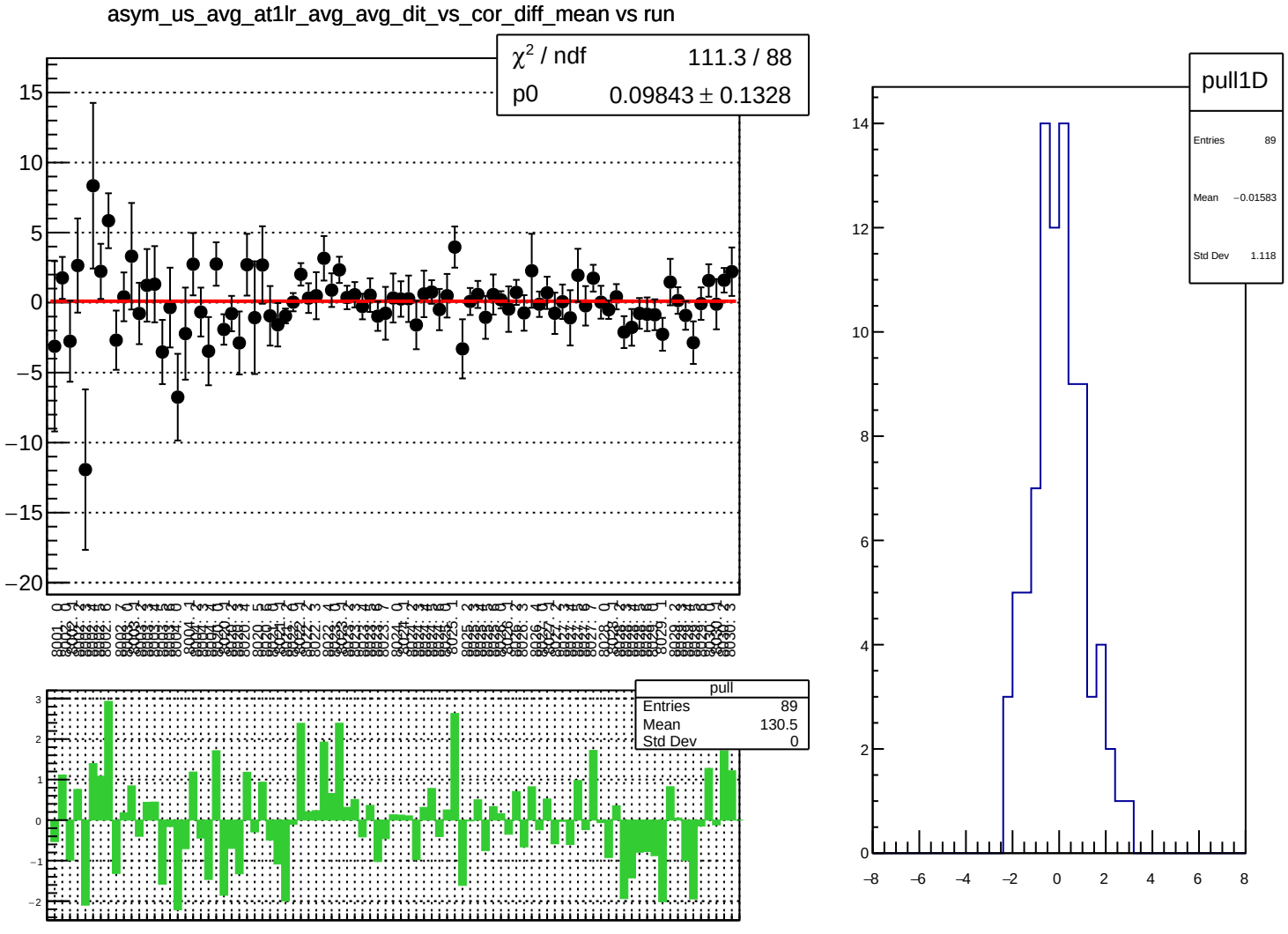

pull1D
Entries 89
Mean 0.02669
Std Dev 0.9932
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

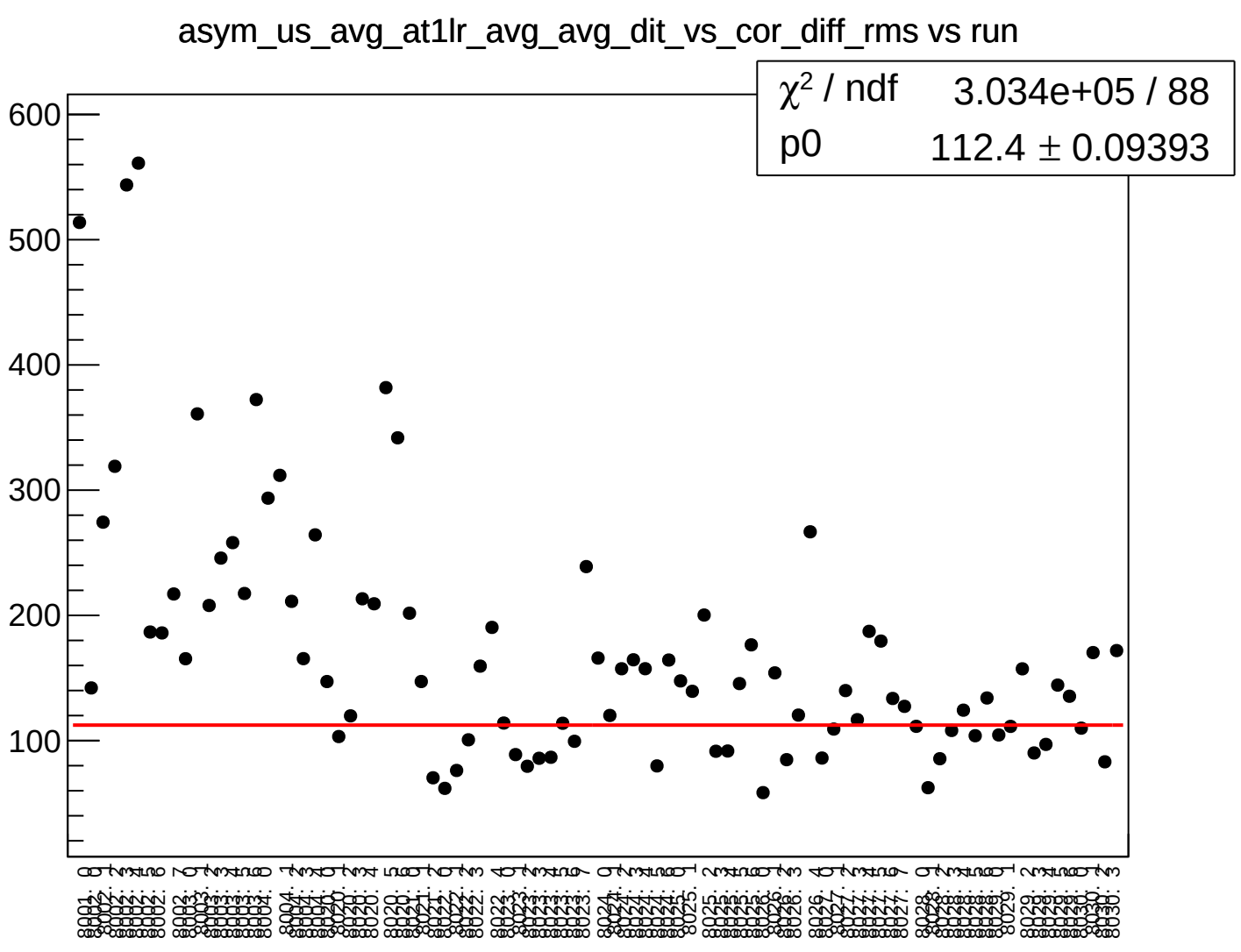

asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 5070 / 88
p0 3259 ± 2.478
3800
3600
3400
3200
3000
2800
2600

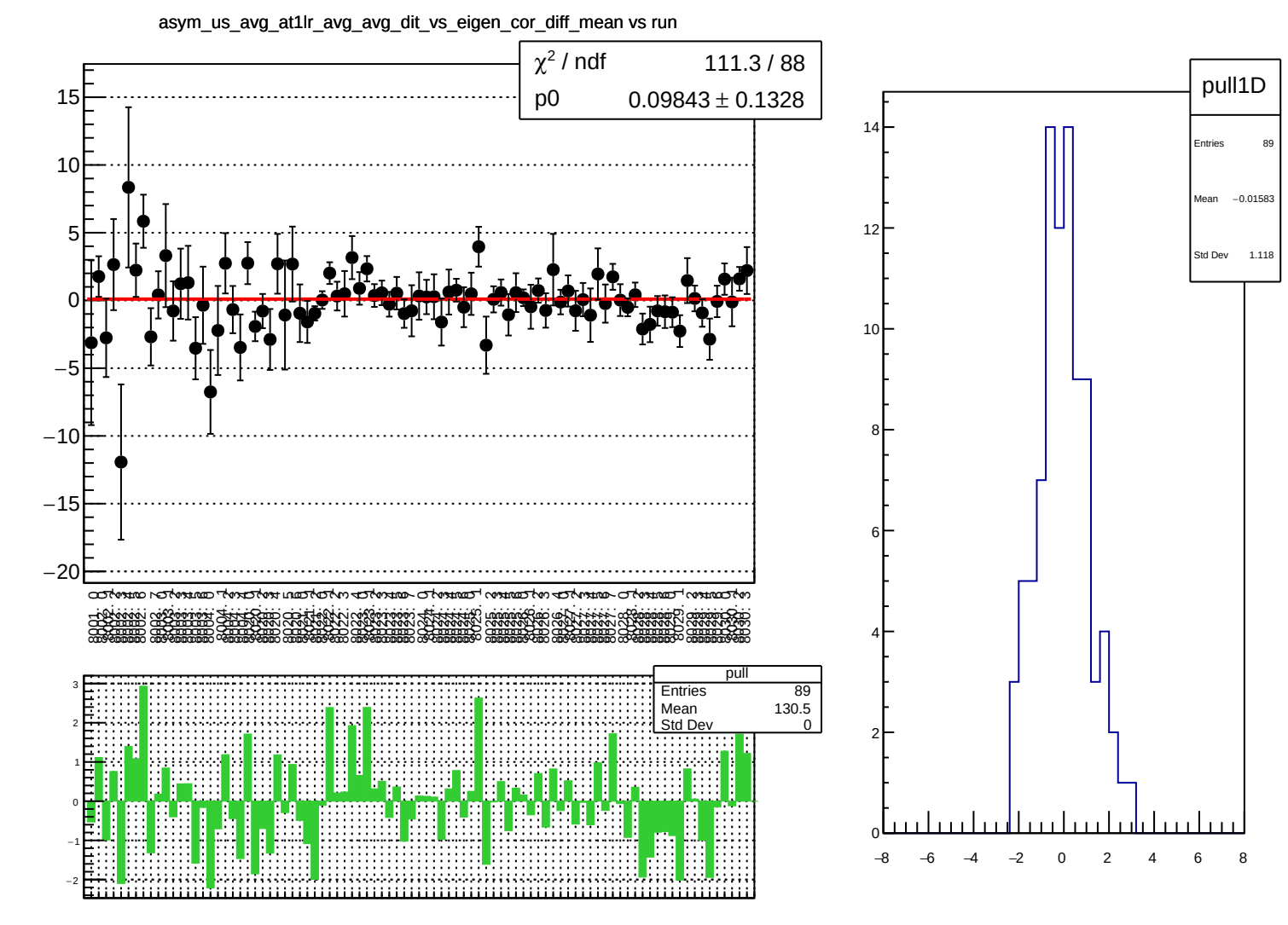

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 105.6 / 88
p0 −4.495e−13 ± 3.885e−13
pull
Entries 89
Mean 47.75
Std Dev 37.97

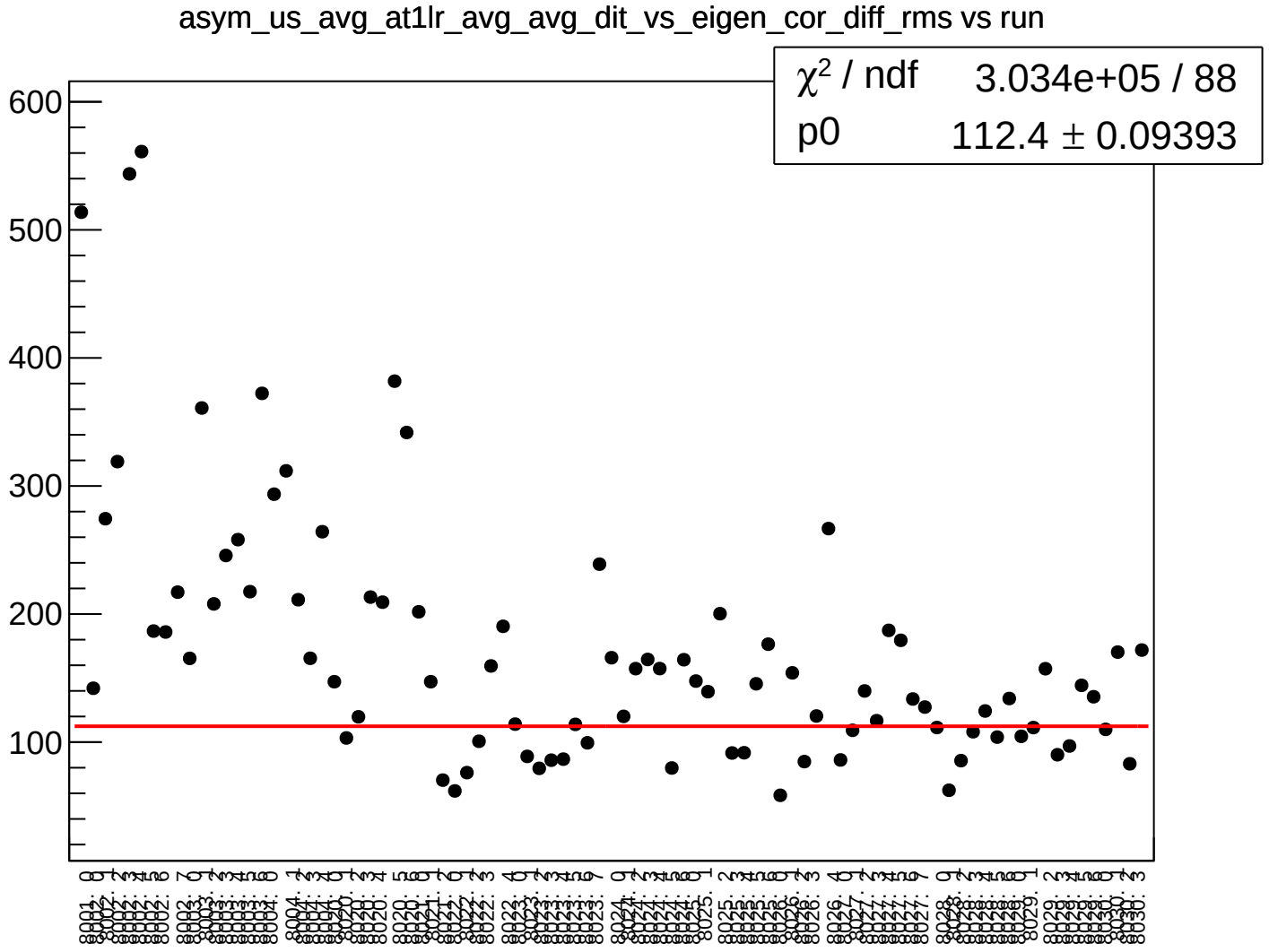

pull1D
Entries 89
Mean −0.1235
Std Dev 1.082

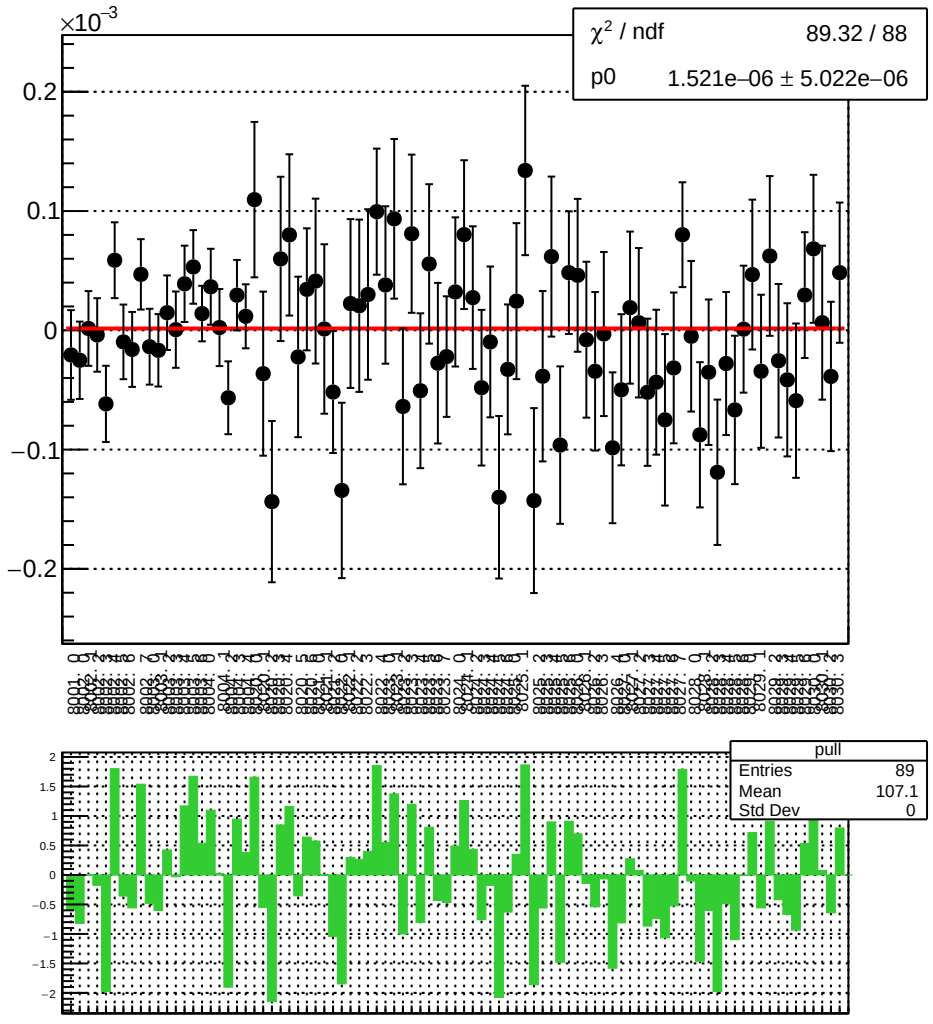

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.277e+05 / 88
p0 2.468e−10 ± 2.747e−13
1.2
1
0.8
0.6
0.4
0.2
0

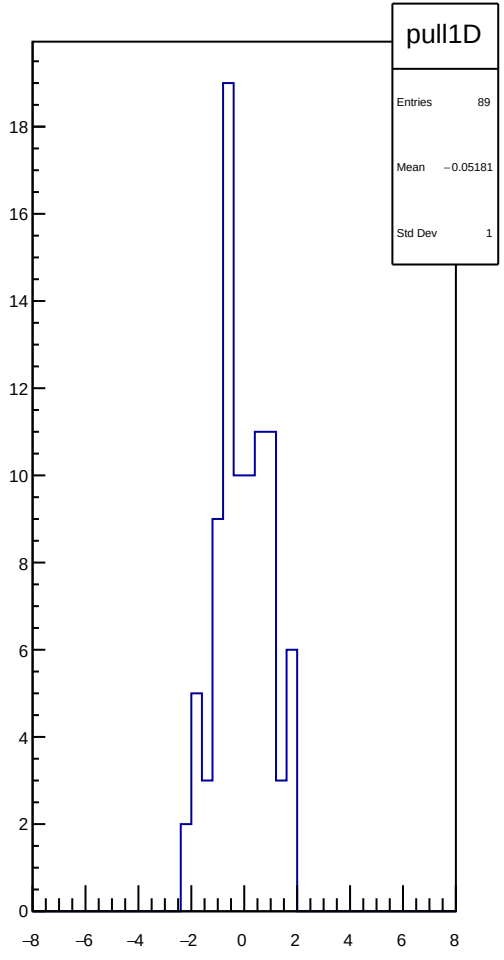

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 111.3 / 88
p0 0.09843 ± 0.1328
pull
Entries 89
Mean 130.5
Std Dev 0
pull1D
Entries 89
Mean −0.01583
Std Dev 1.118

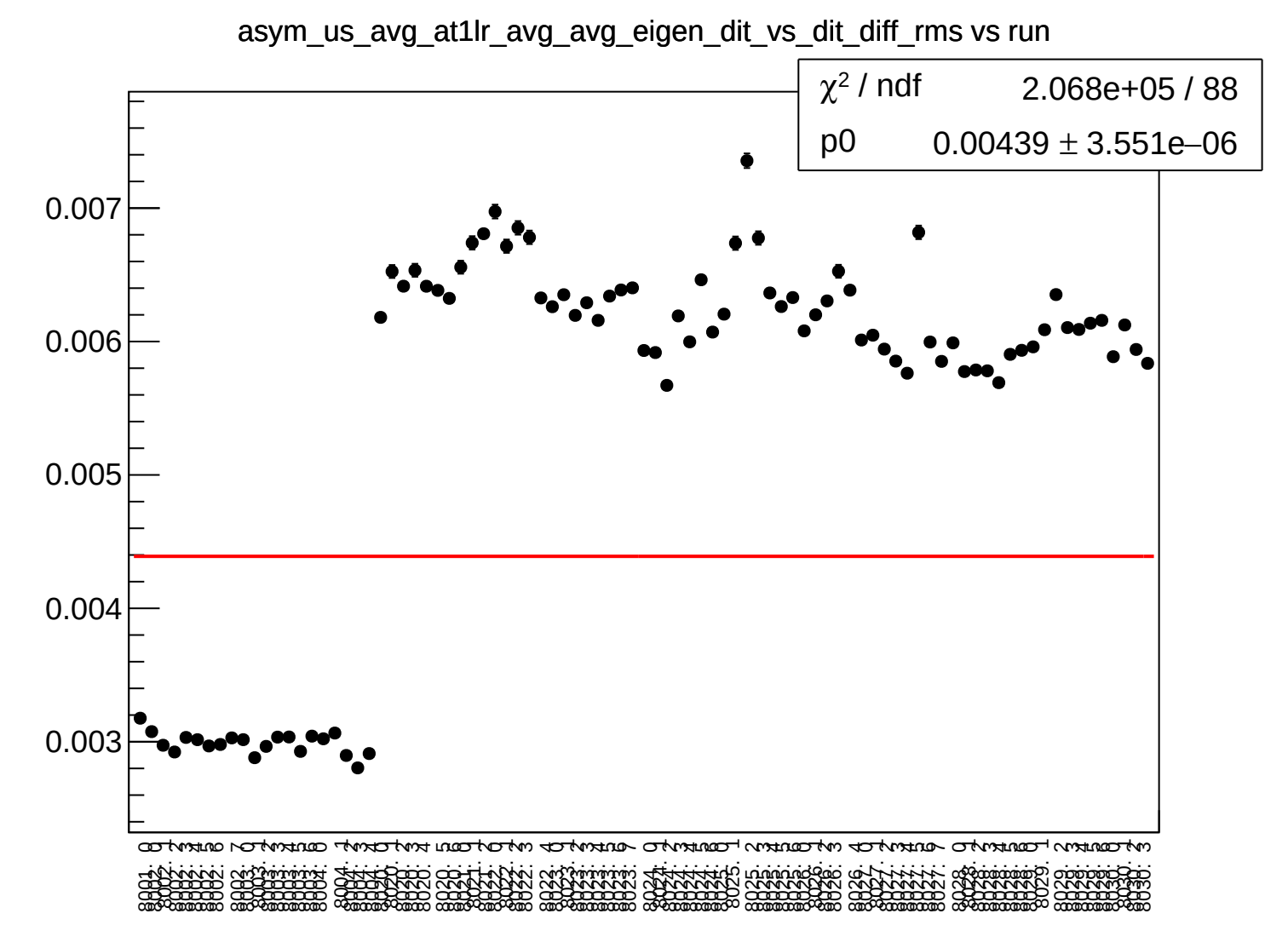

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.034e+05 / 88
p0 112.4 ± 0.09393
600
500
400
300
200
100

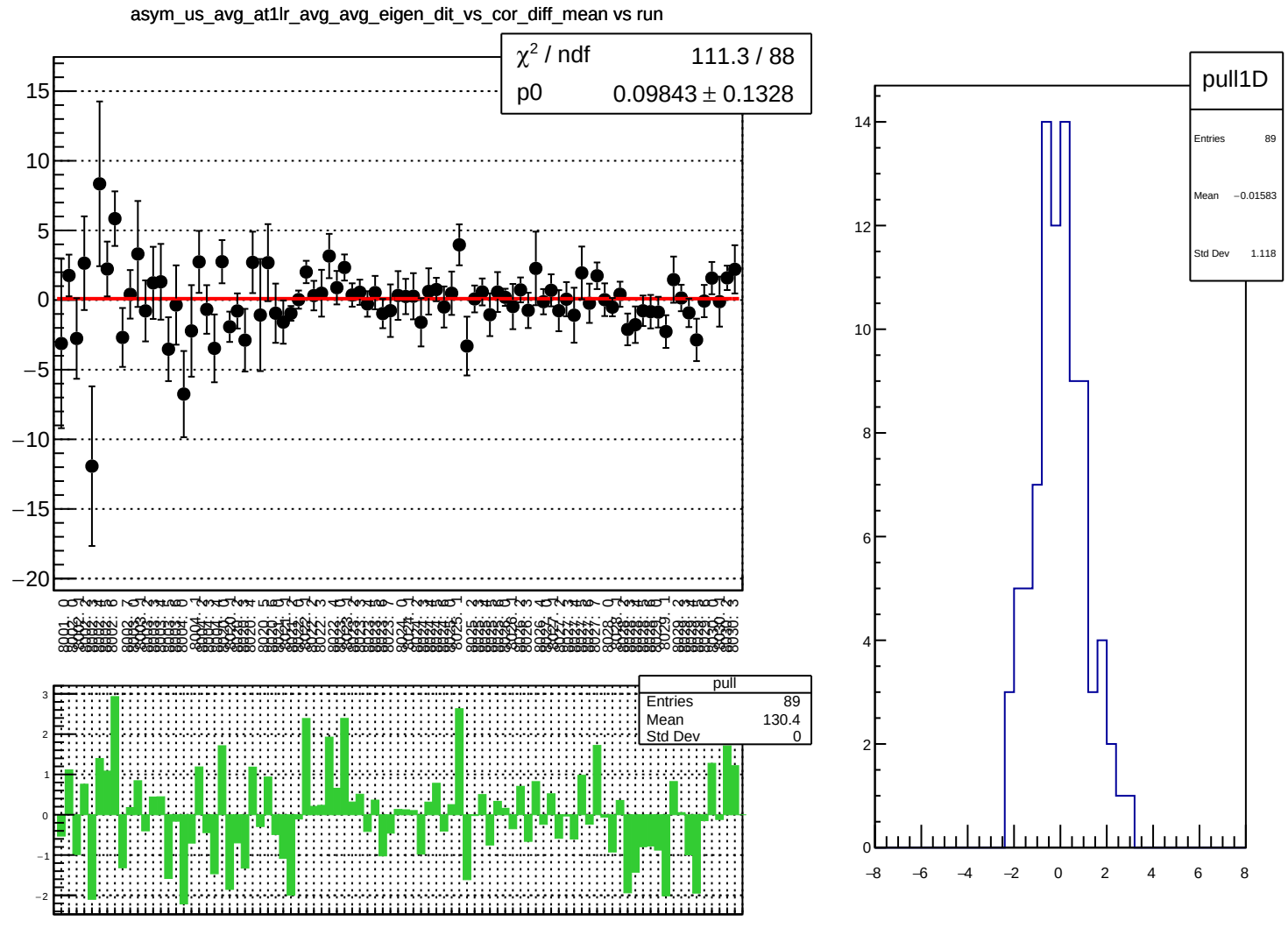

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 111.3 / 88
p0 0.09843 ± 0.1328
pull
Entries 89
Mean 130.5
Std Dev 0
pull1D
Entries 89
Mean −0.01583
Std Dev 1.118

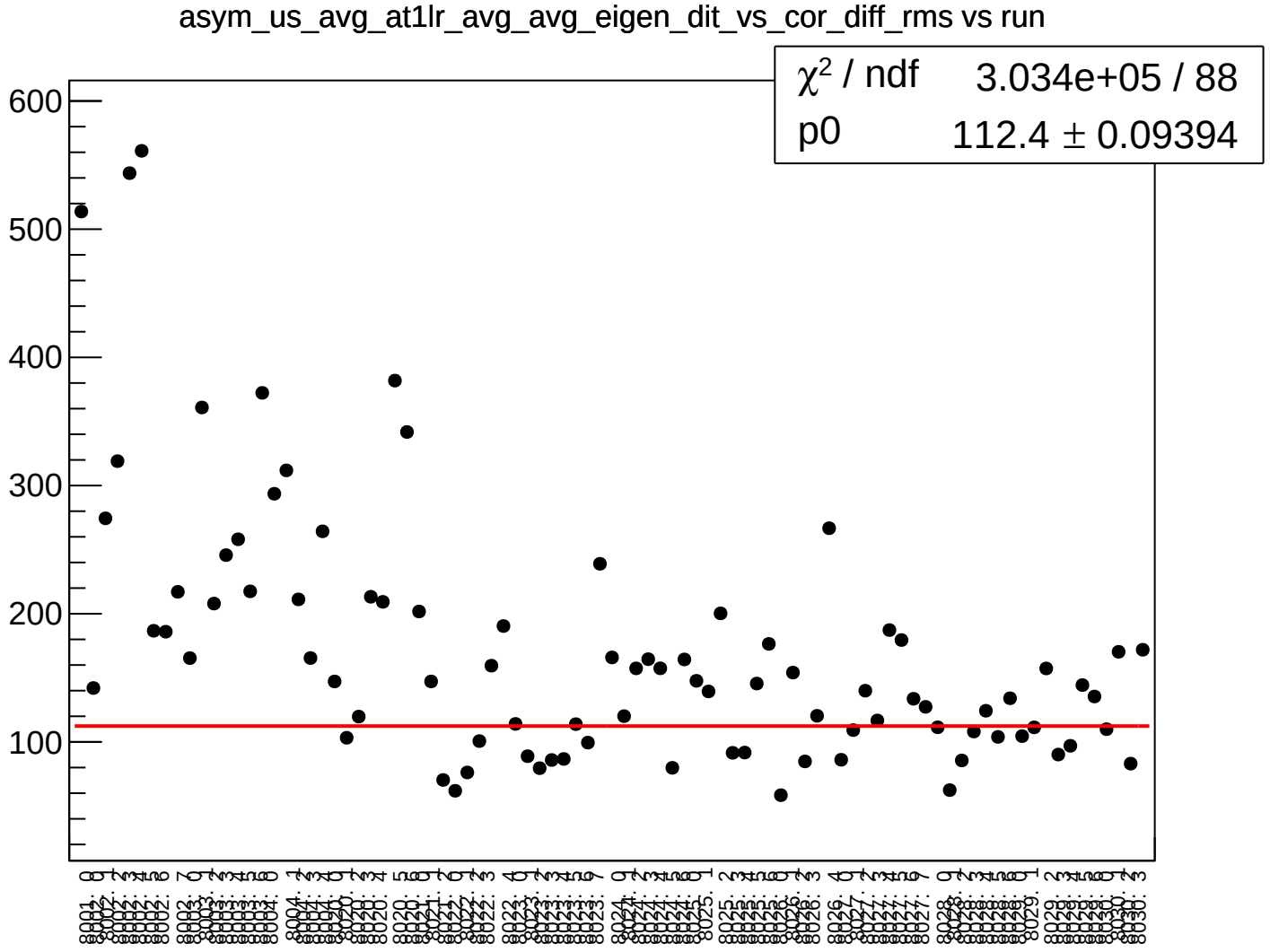

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.034e+05 / 88
p0 112.4 ± 0.09393
600
500
400
300
200
100

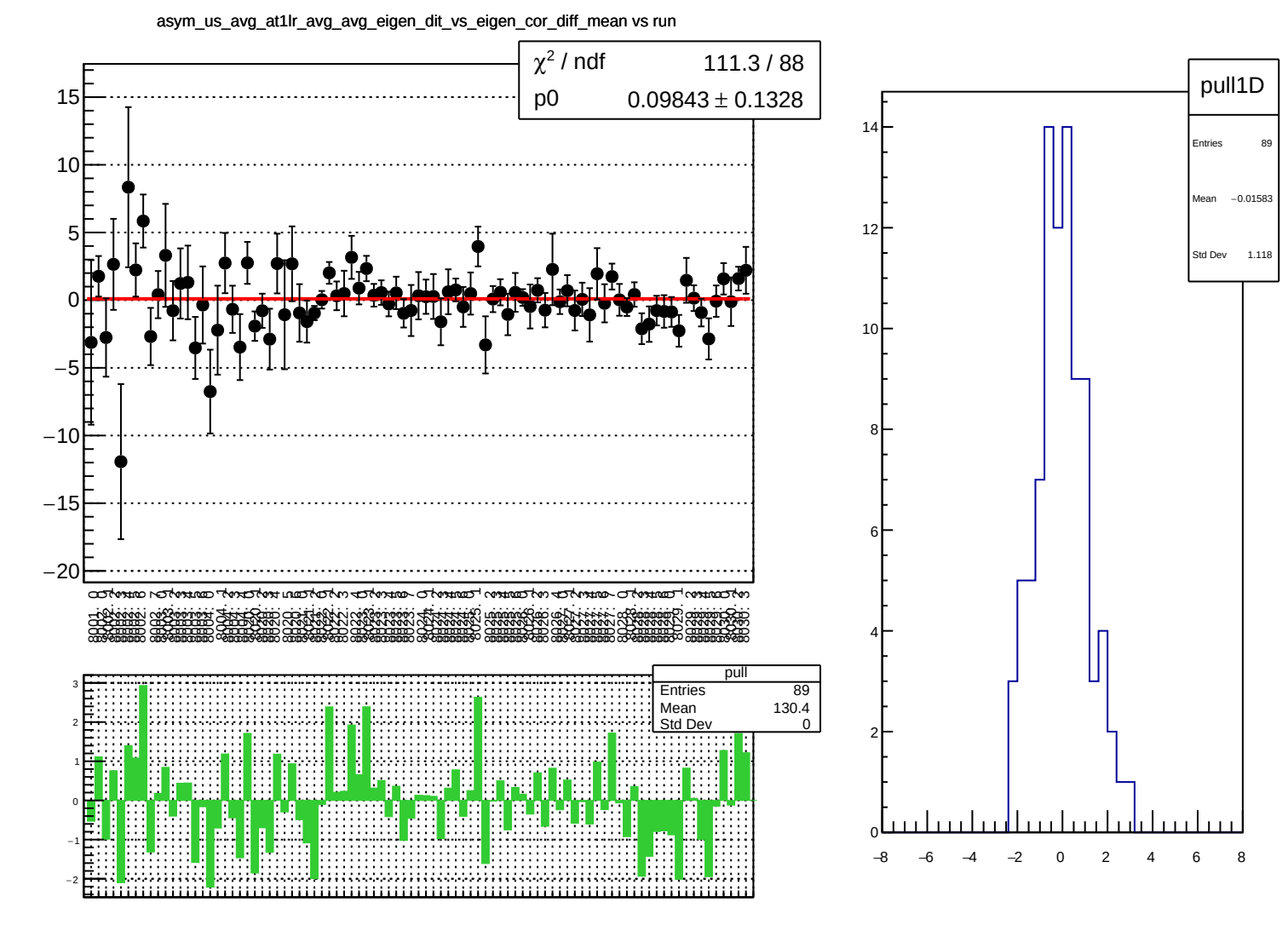

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.32 / 88
p0 1.521e−06 ± 5.022e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 89
Mean 107.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

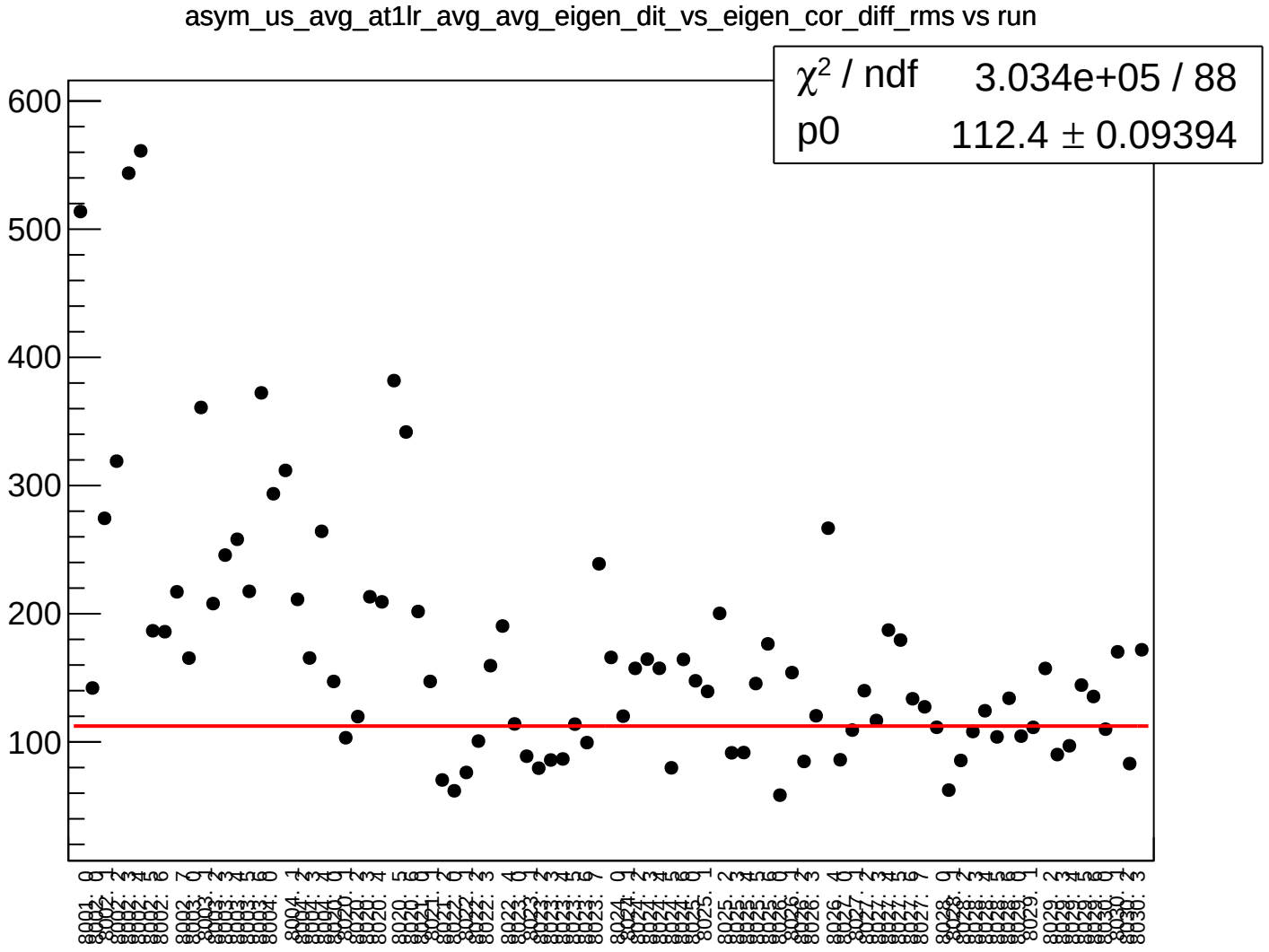

pull1D
Entries 89
Mean −0.05181
Std Dev 1
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

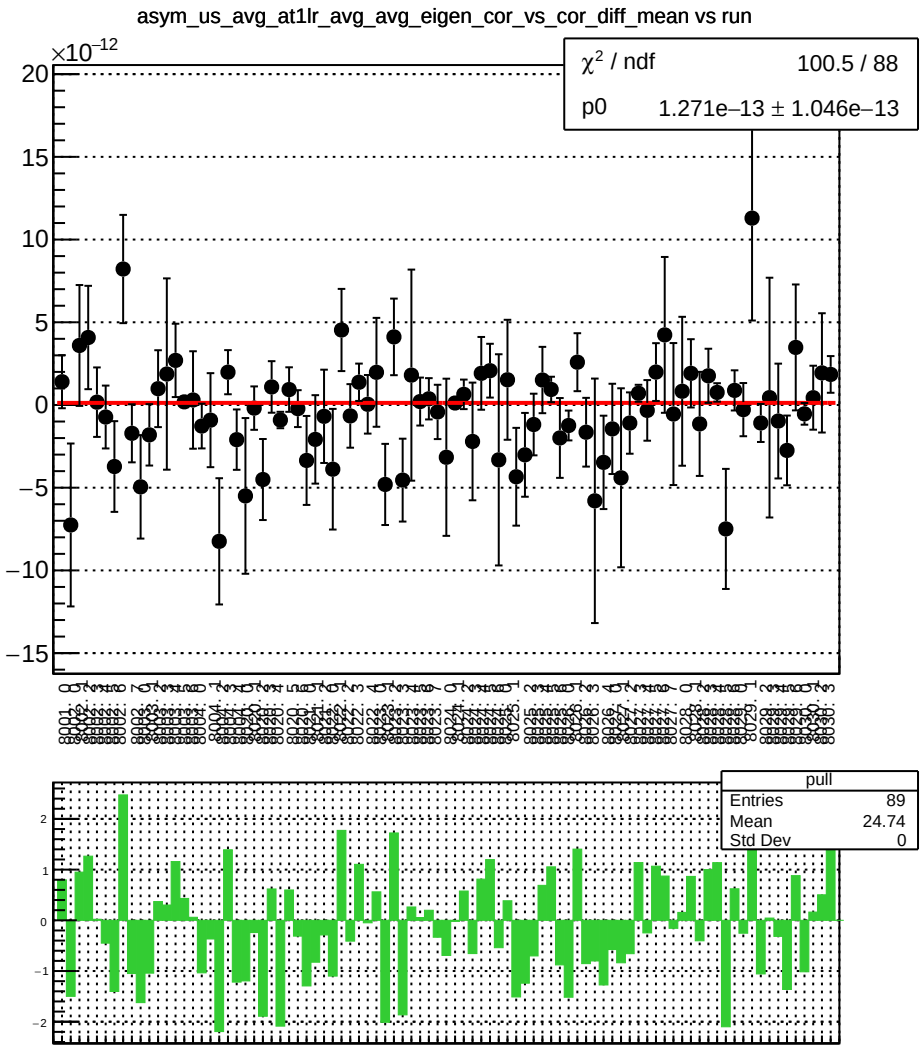

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.068e+05 / 88
p0 0.00439 ± 3.551e–06
0.007
0.006
0.005
0.004
0.003

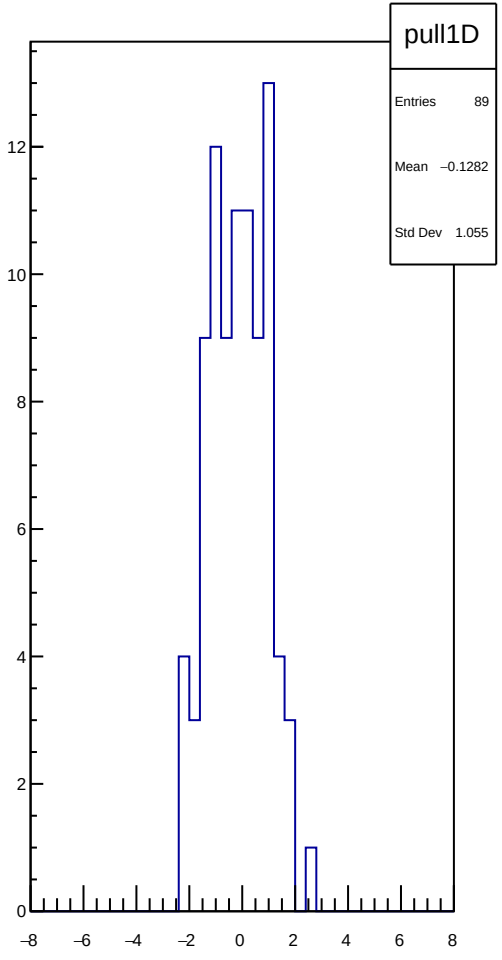

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 111.3 / 88
p0 0.09843 ± 0.1328
pull
Entries 89
Mean 130.4
Std Dev 0
pull1D
Entries 89
Mean −0.01583
Std Dev 1.118

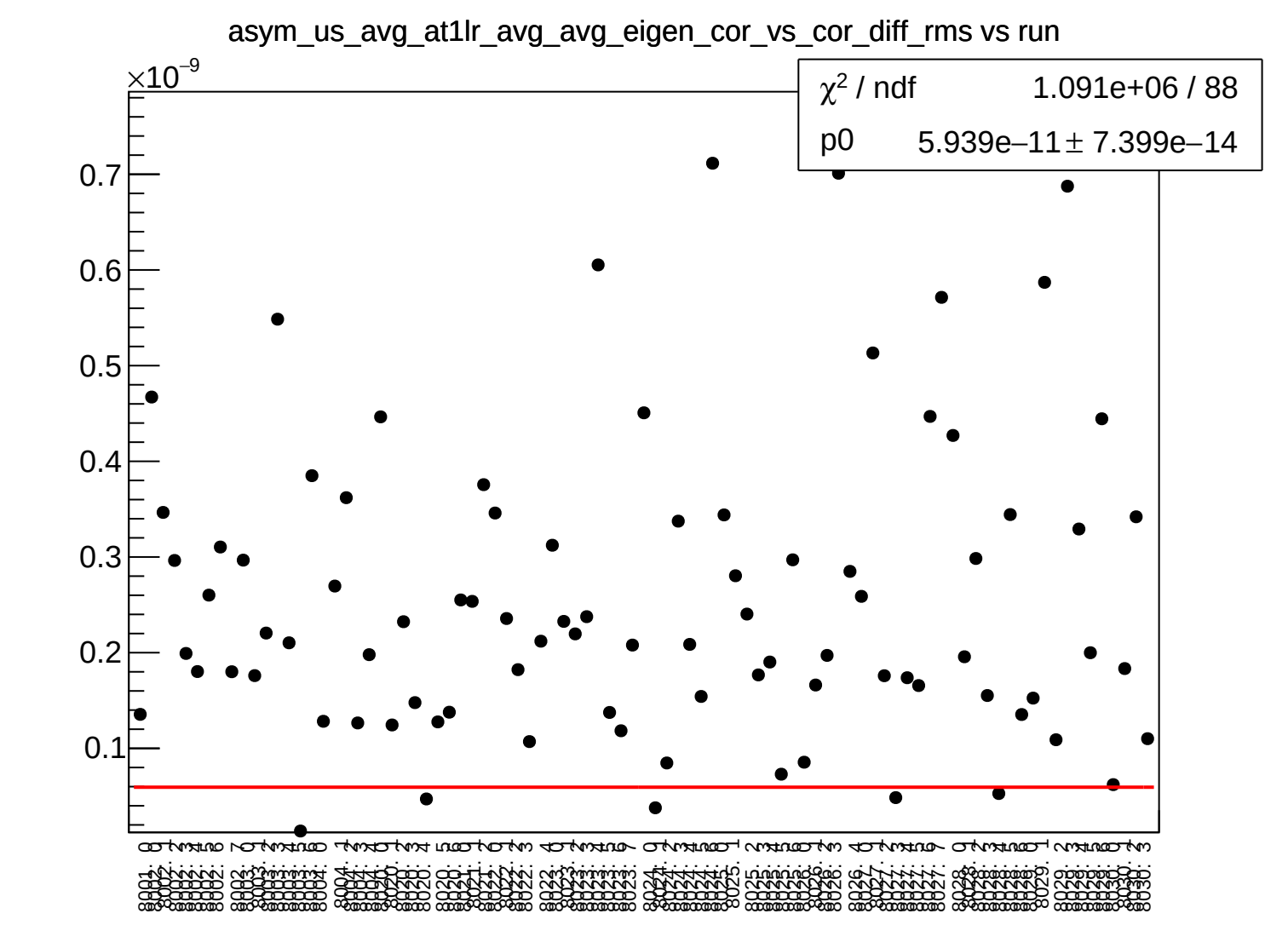

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.034e+05 / 88
p0 112.4 ± 0.09394
600
500
400
300
200
100

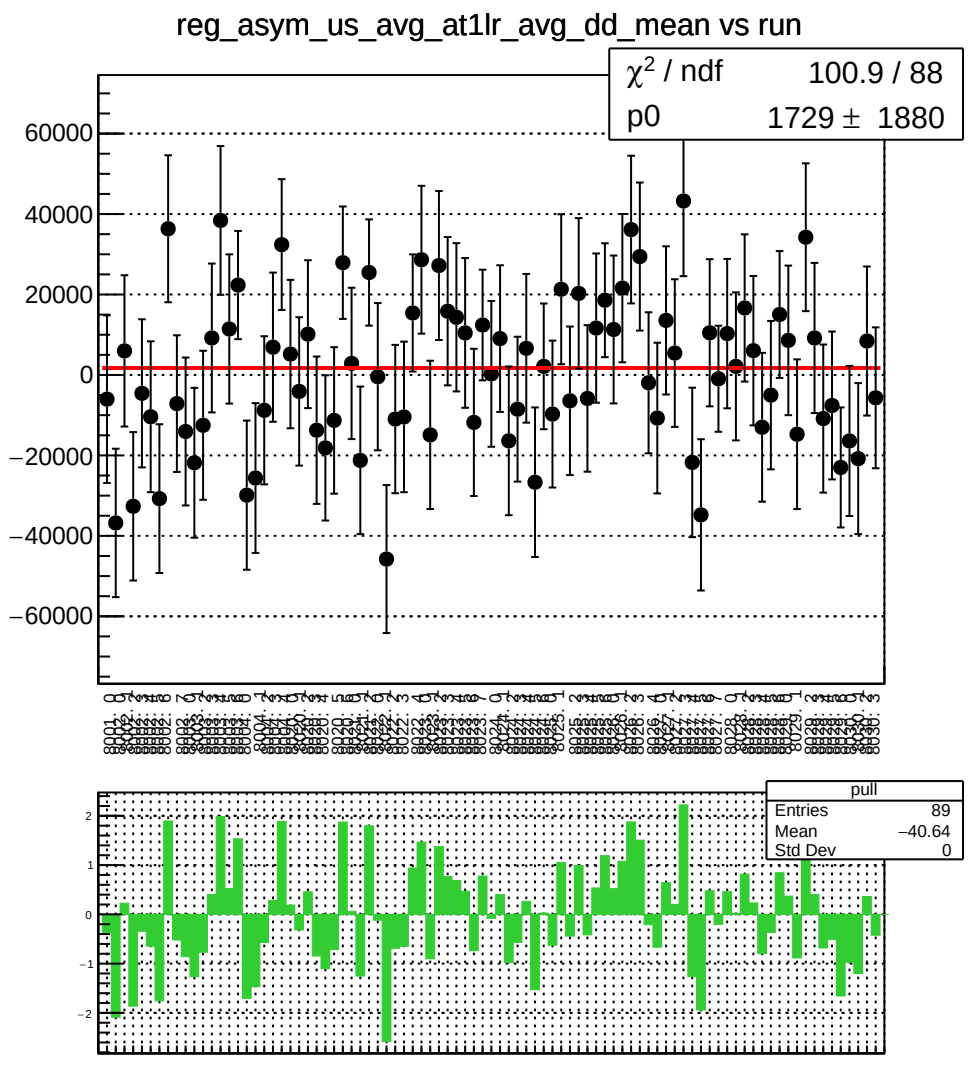

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 111.3 / 88
p0 0.09843 ± 0.1328
pull
Entries 89
Mean 130.4
Std Dev 0
pull1D
Entries 89
Mean −0.01583
Std Dev 1.118

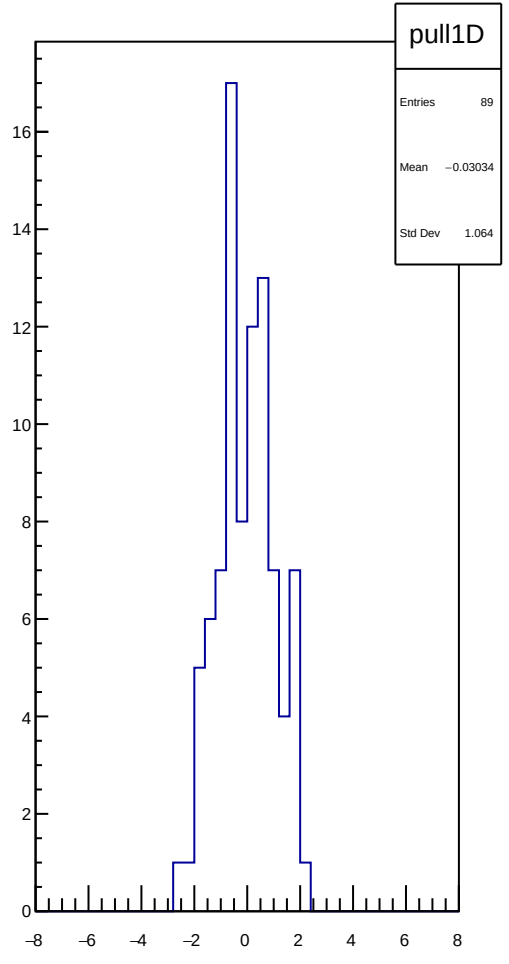

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.034e+05 / 88
p0 112.4 ± 0.09394
600
500
400
300
200
100

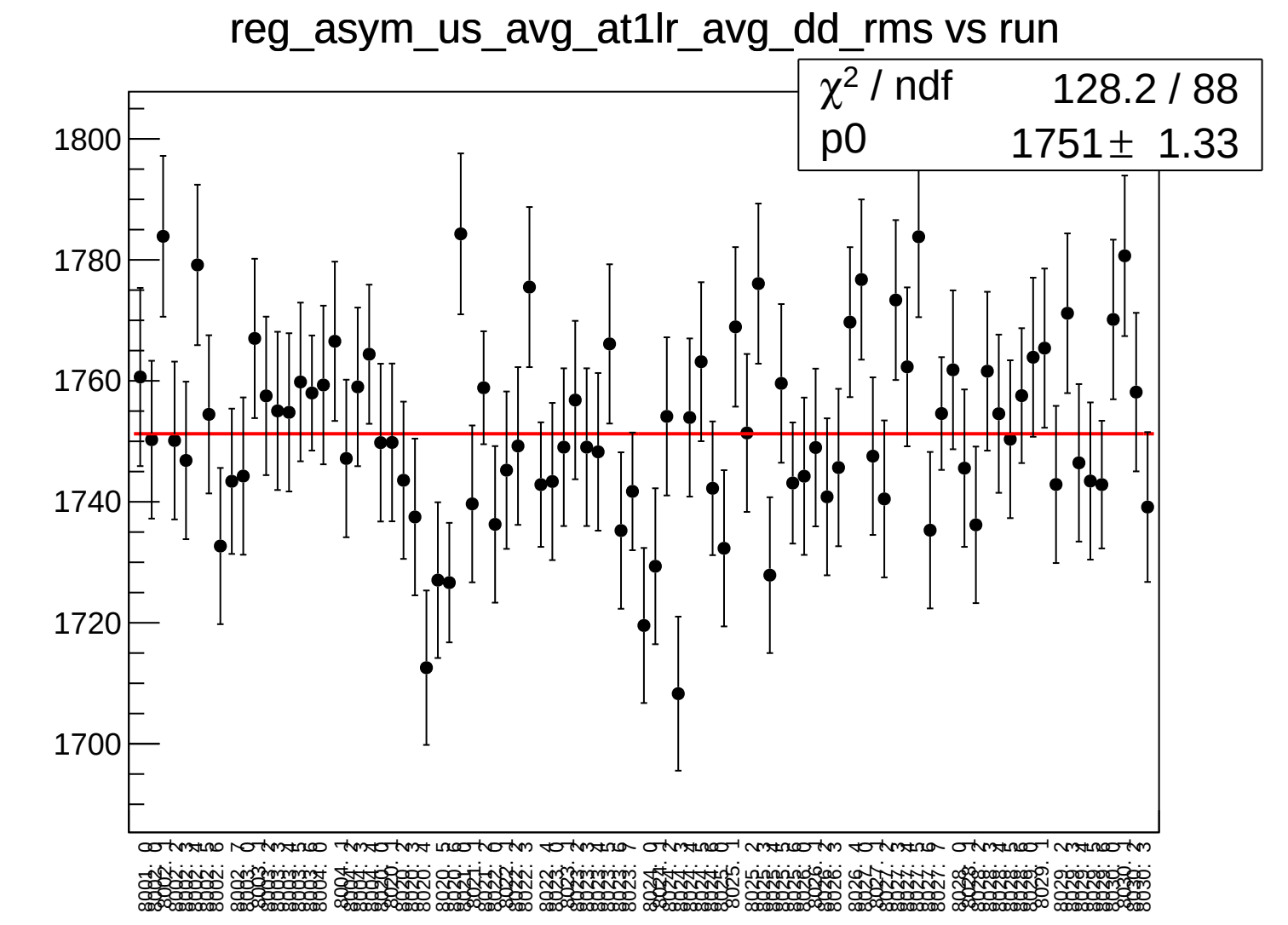

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 100.5 / 88
p0 1.271e−13 ± 1.046e−13
pull
Entries 89
Mean 24.74
Std Dev 0

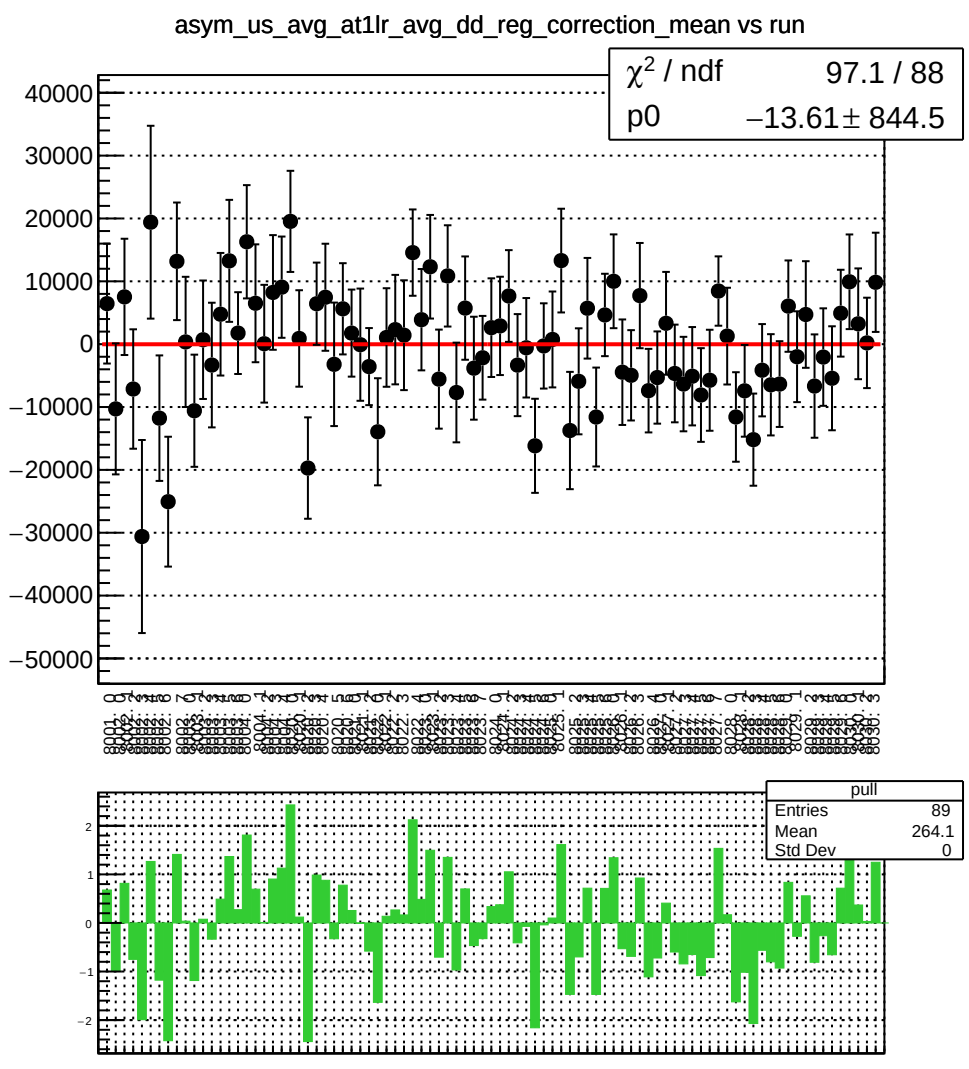

pull1D
Entries 89
Mean −0.1282
Std Dev 1.055

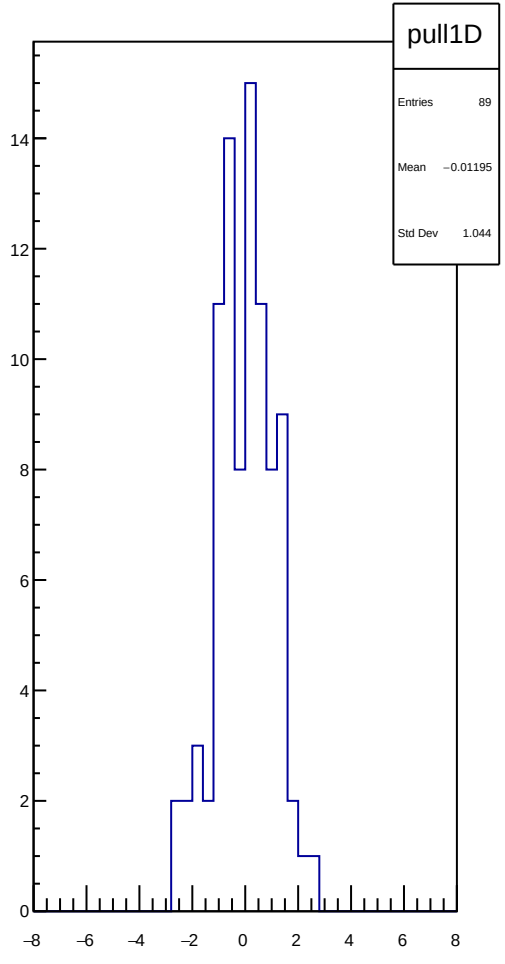

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.091e+06 / 88
p0 5.939e−11 ± 7.399e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

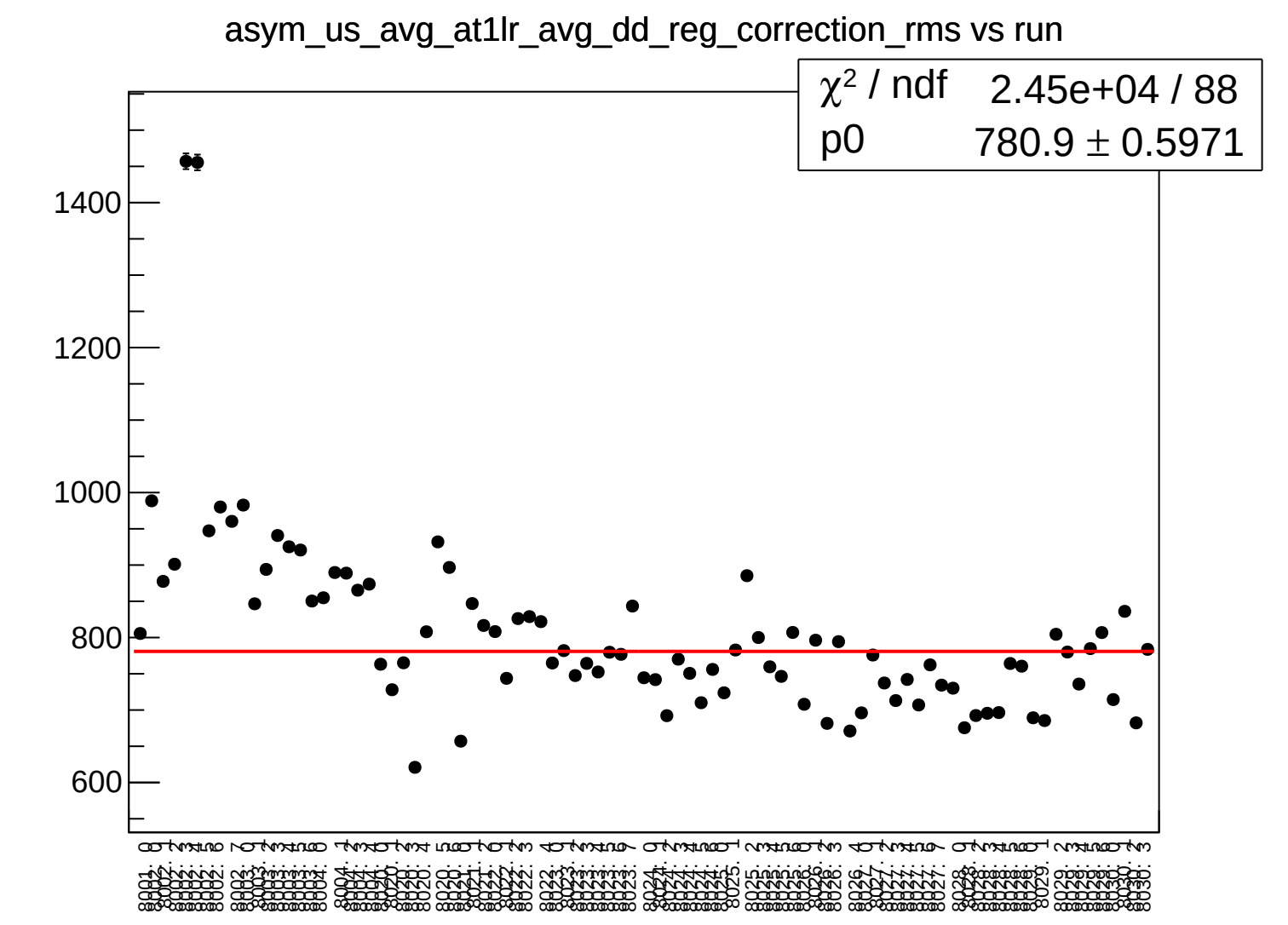

reg_asym_us_avg_at1lr_avg_dd_mean vs run
χ^2 / ndf 100.9 / 88
p0 1729 ± 1880
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −40.64
Std Dev 0
2
1
0
−1
−2

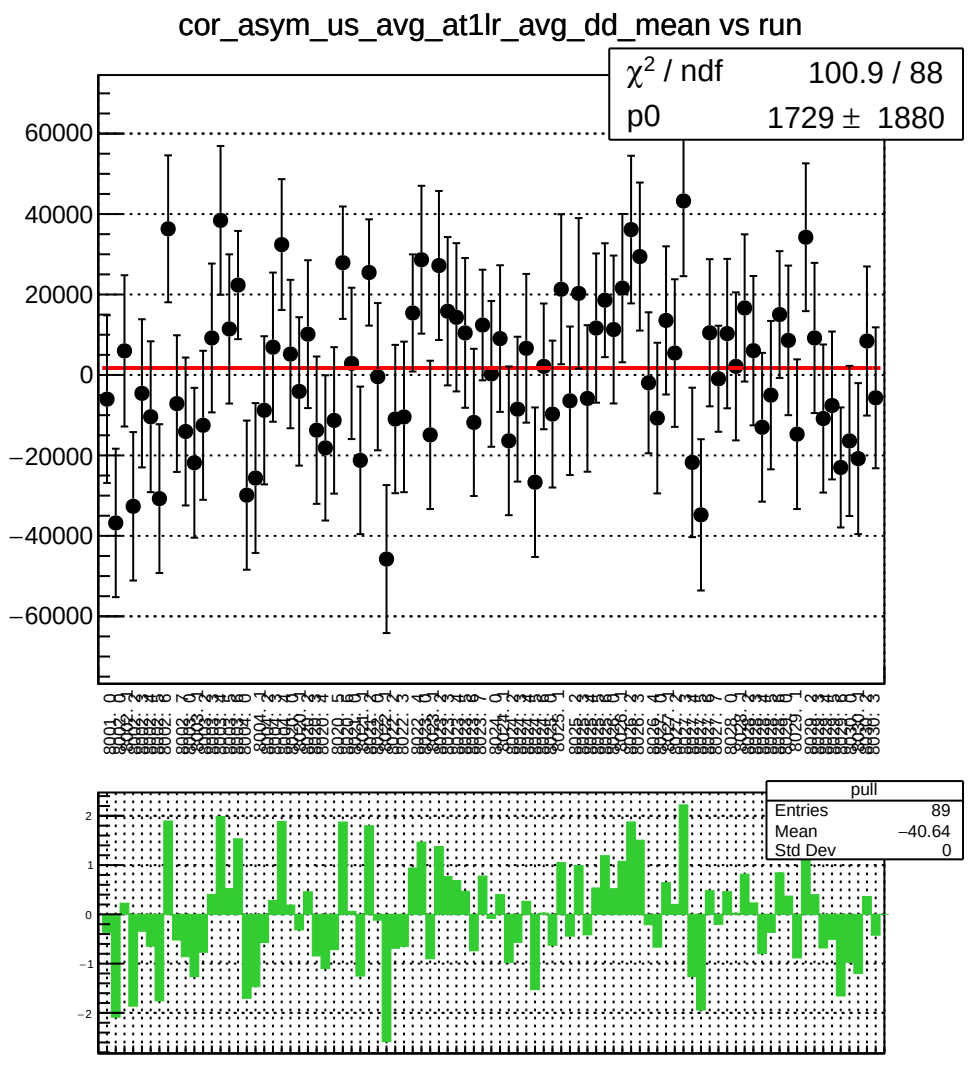

pull1D
Entries 89
Mean −0.03034
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

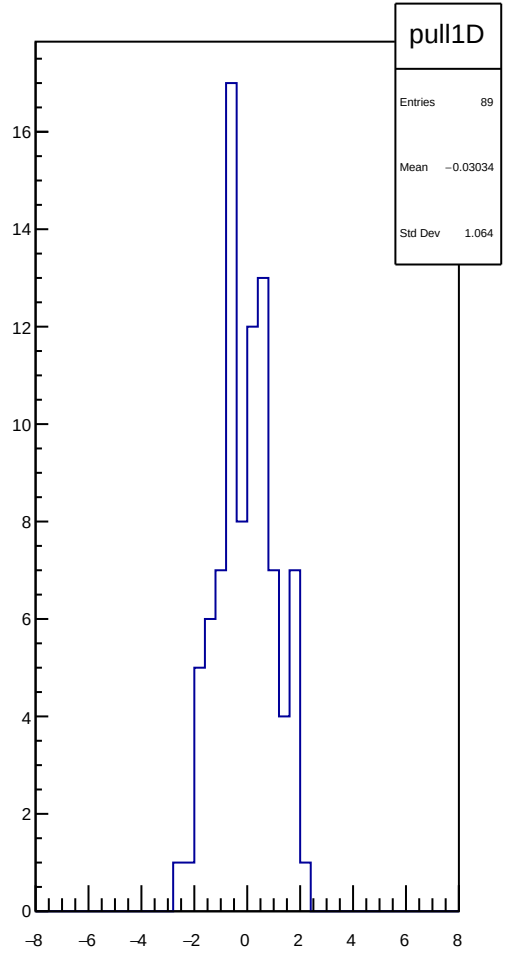

reg_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 128.2 / 88
p0 1751 ± 1.33
1800
1780
1760
1740
1720
1700

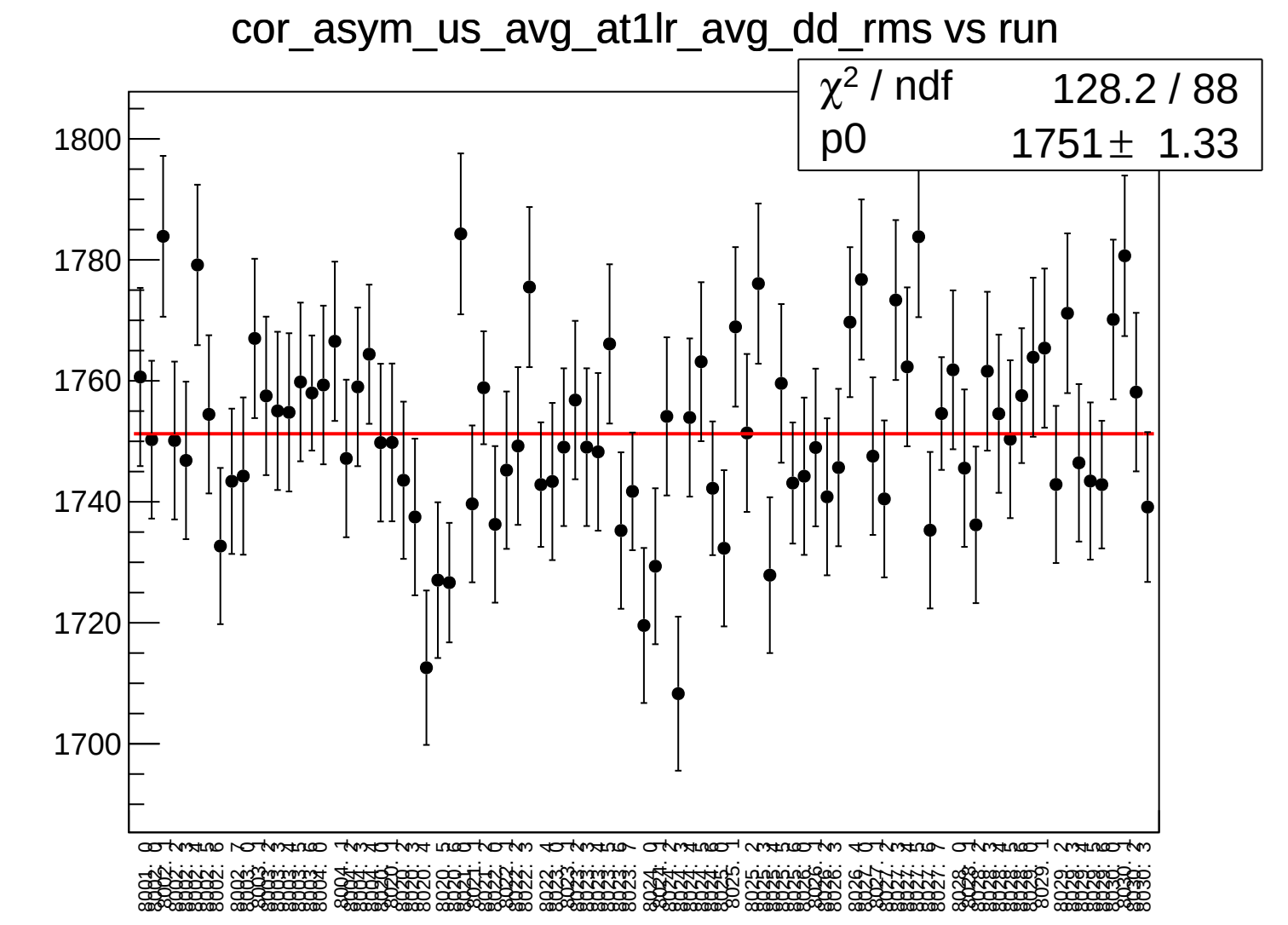

asym_us_avg_at1lr_avg_dd_reg_correction_mean vs run
χ² / ndf 97.1 / 88
p0 −13.61 ± 844.5
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
pull
Entries 89
Mean 264.1
Std Dev 0
2
1
0
−1
−2

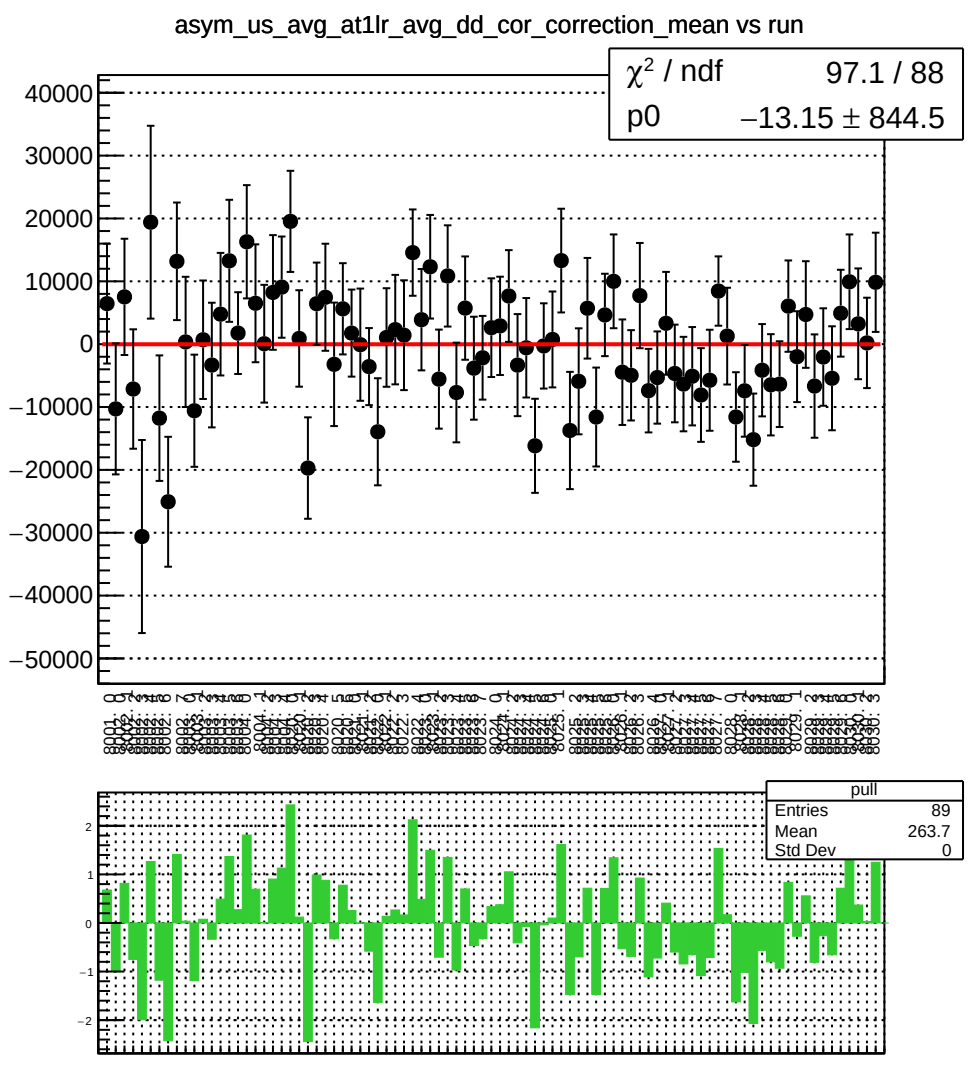

pull1D
Entries 89
Mean −0.01195
Std Dev 1.044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

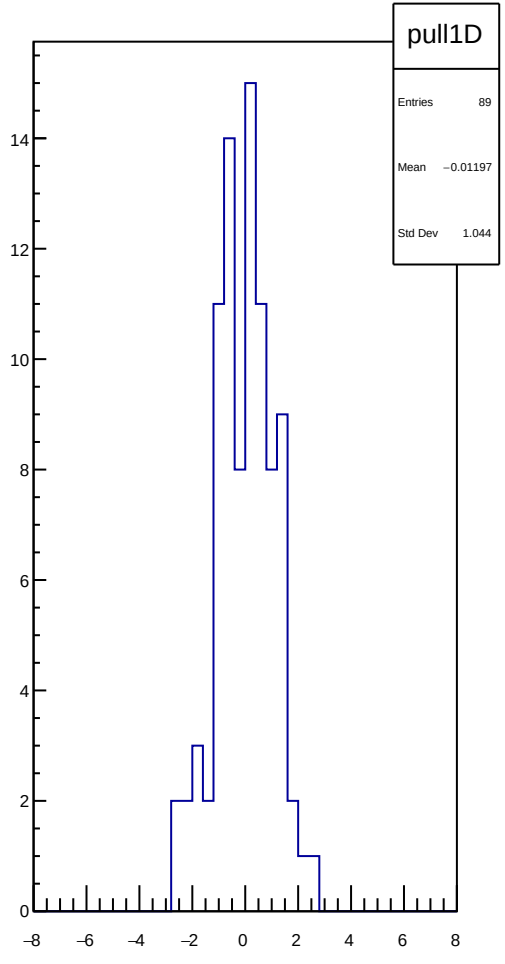

asym_us_avg_at1lr_avg_dd_reg_correction_rms vs run
χ² / ndf 2.45e+04 / 88
p0 780.9 ± 0.5971
1400
1200
1000
800
600

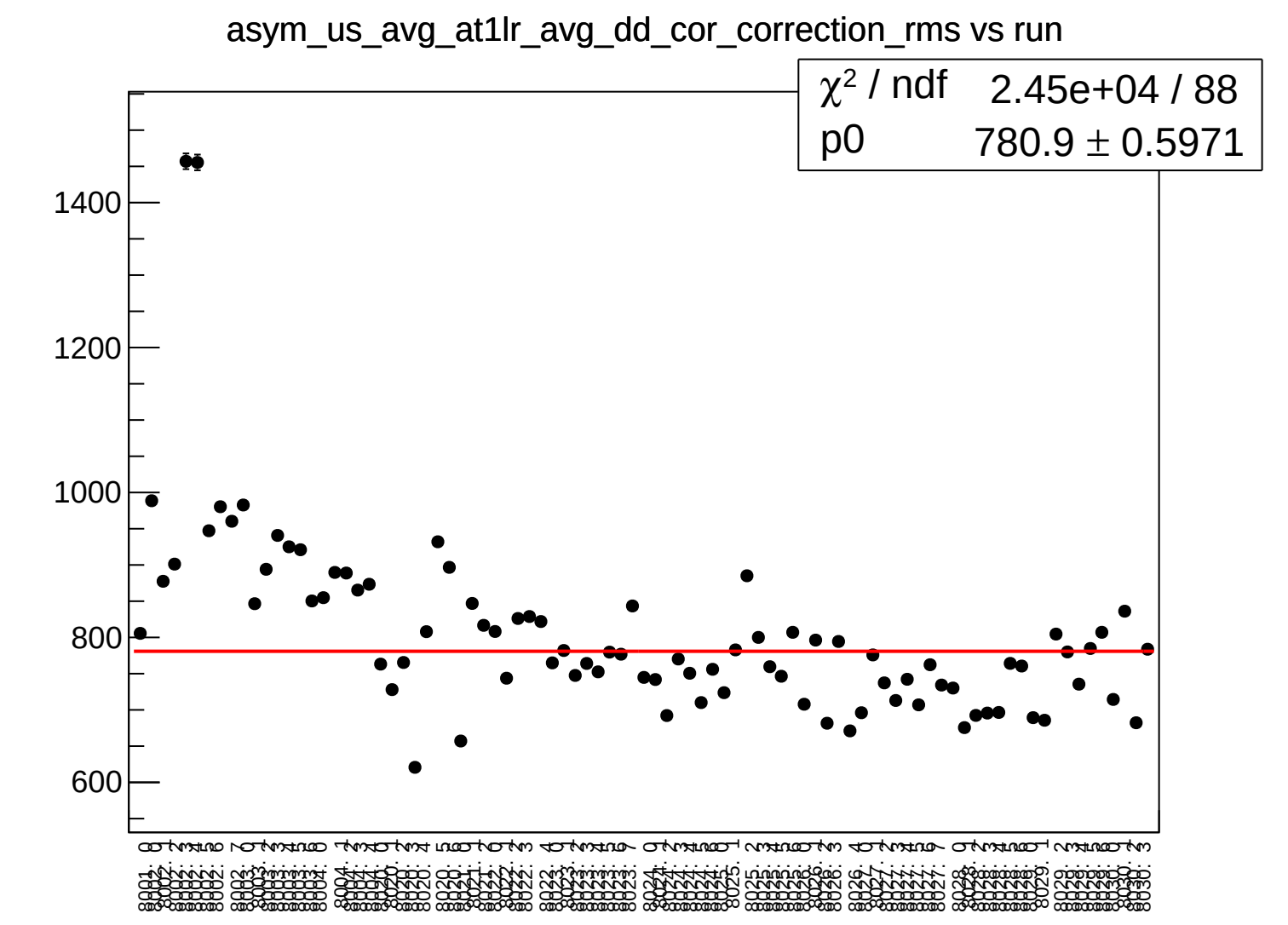

cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 100.9 / 88
p0 1729 ± 1880
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −40.64
Std Dev 0
2
1
0
−1
−2

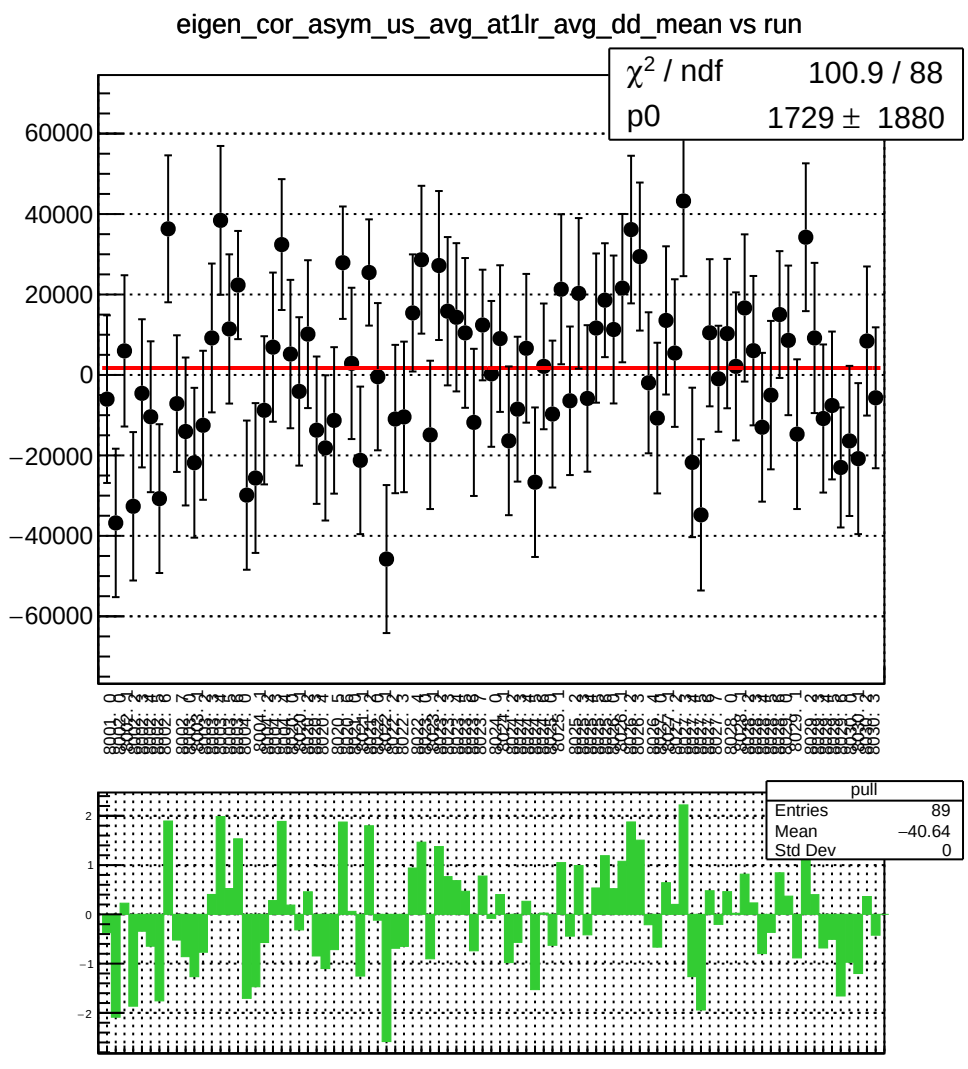

pull1D
Entries 89
Mean −0.03034
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

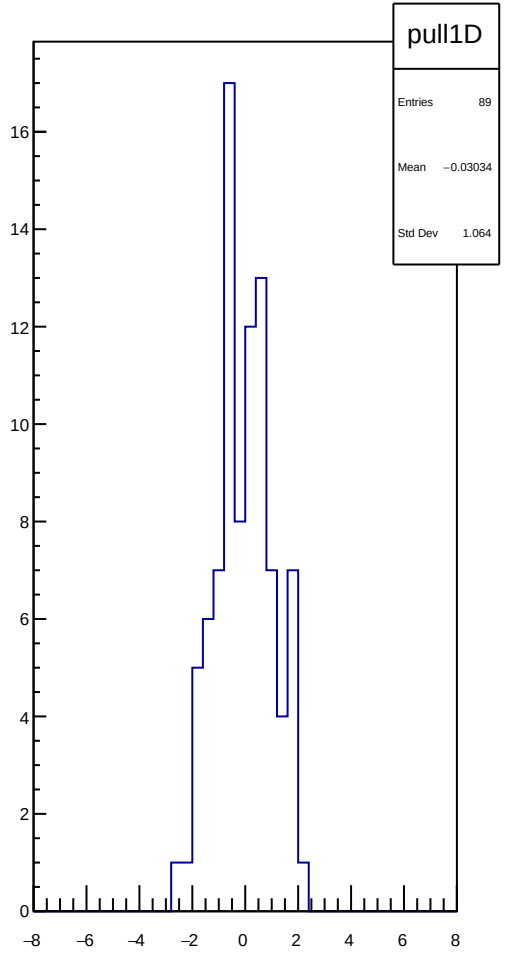

cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 128.2 / 88
p0 1751 ± 1.33
1800
1780
1760
1740
1720
1700

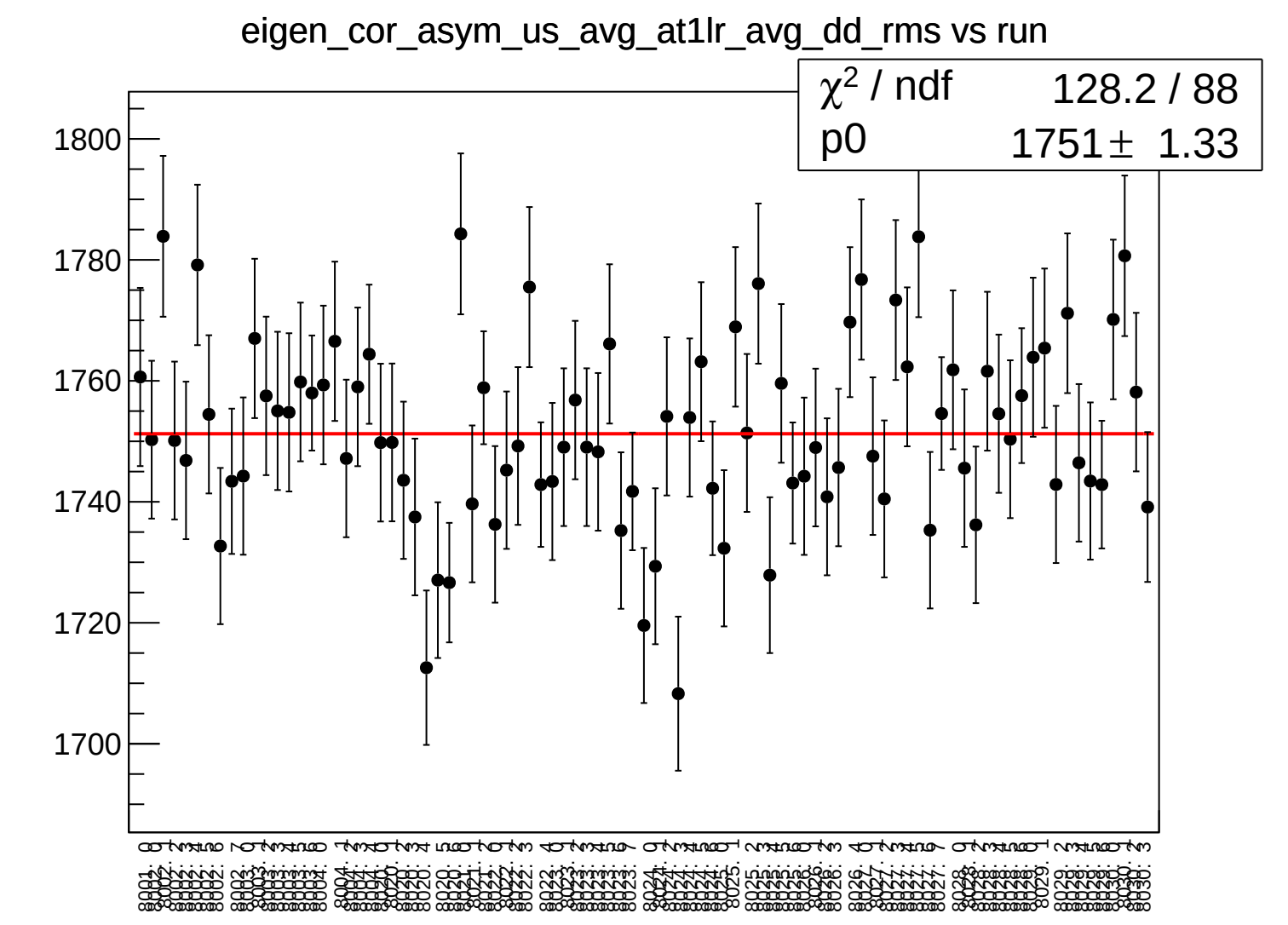

asym_us_avg_at1lr_avg_dd_cor_correction_mean vs run
χ² / ndf 97.1 / 88
p0 −13.15 ± 844.5
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
pull
Entries 89
Mean 263.7
Std Dev 0
2
1
0
−1
−2

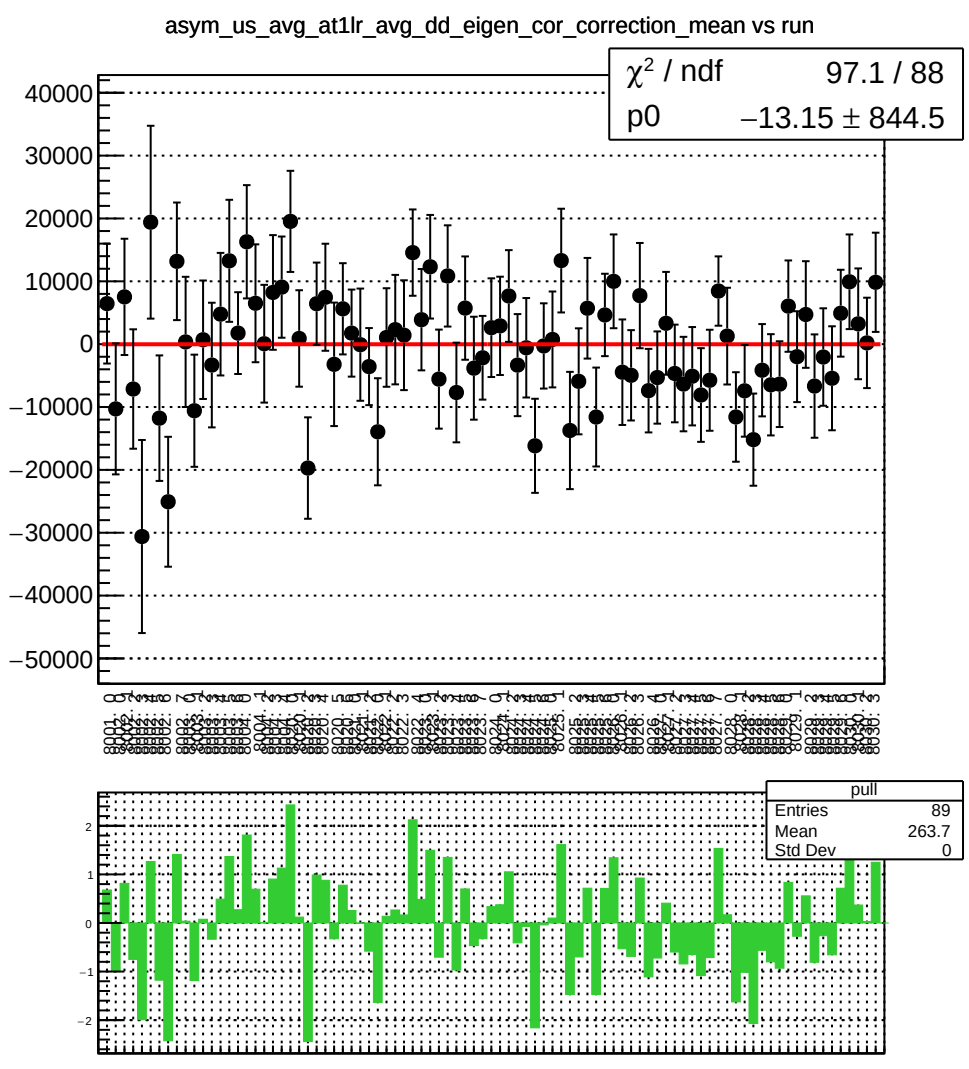

pull1D
Entries 89
Mean −0.01197
Std Dev 1.044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

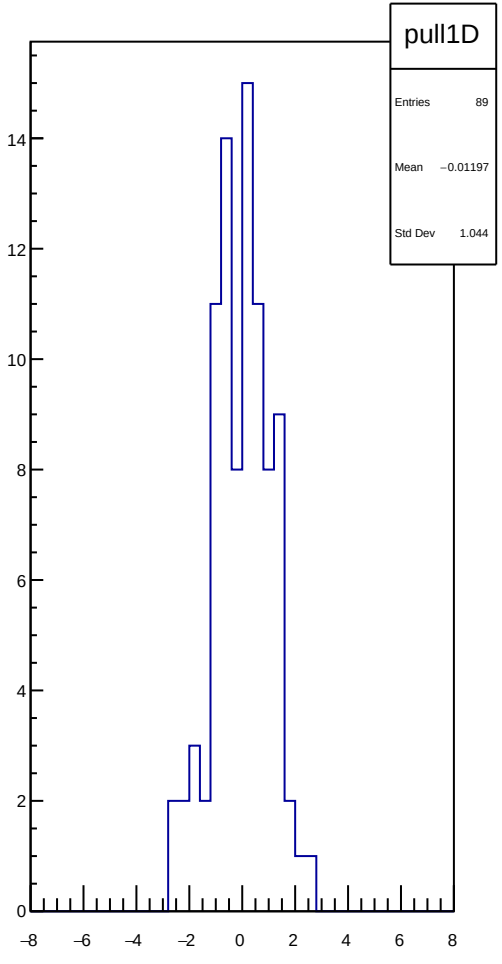

asym_us_avg_at1lr_avg_dd_cor_correction_rms vs run
χ² / ndf 2.45e+04 / 88
p0 780.9 ± 0.5971
1400
1200
1000
800
600

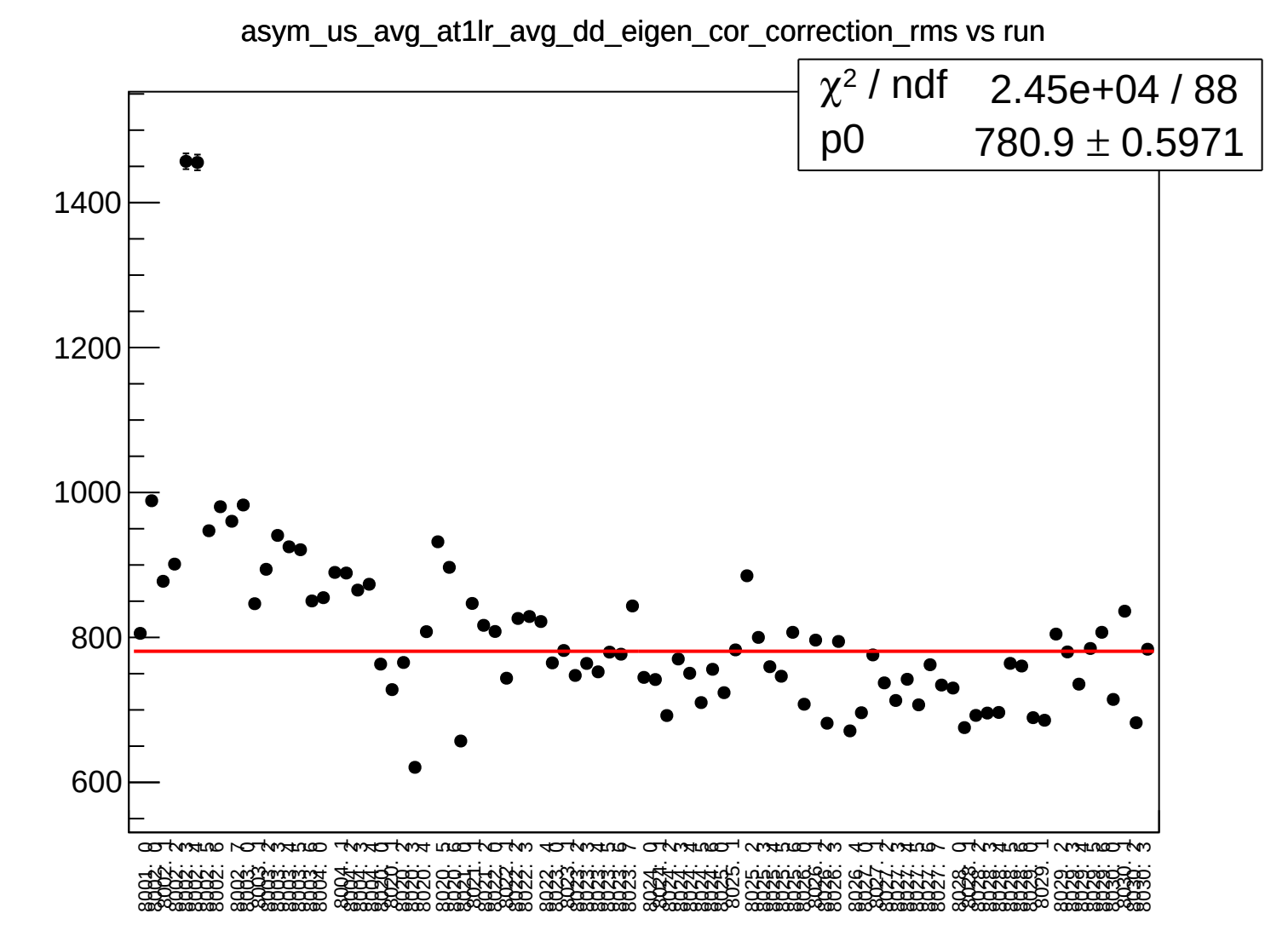

eigen_cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 100.9 / 88
p0 1729 ± 1880
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −40.64
Std Dev 0
2
1
0
−1
−2

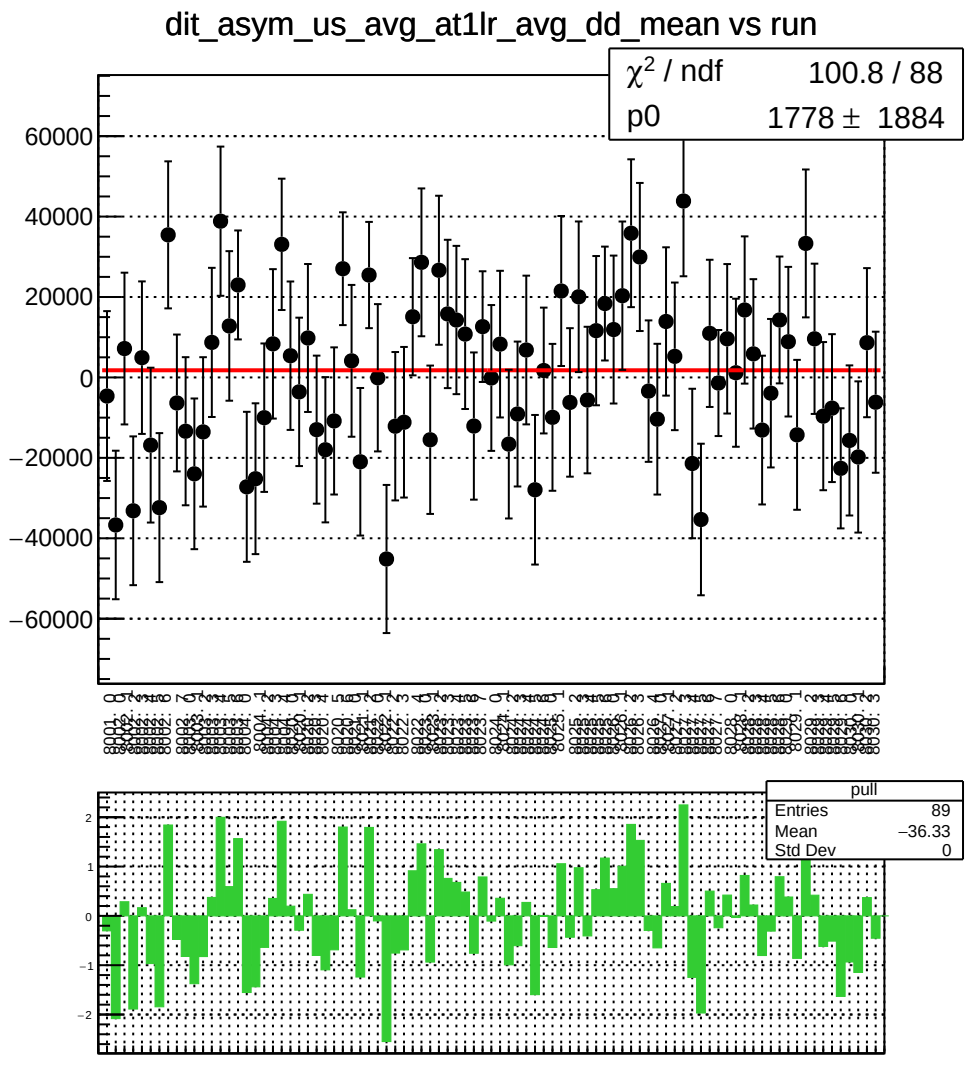

pull1D
Entries 89
Mean −0.03034
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

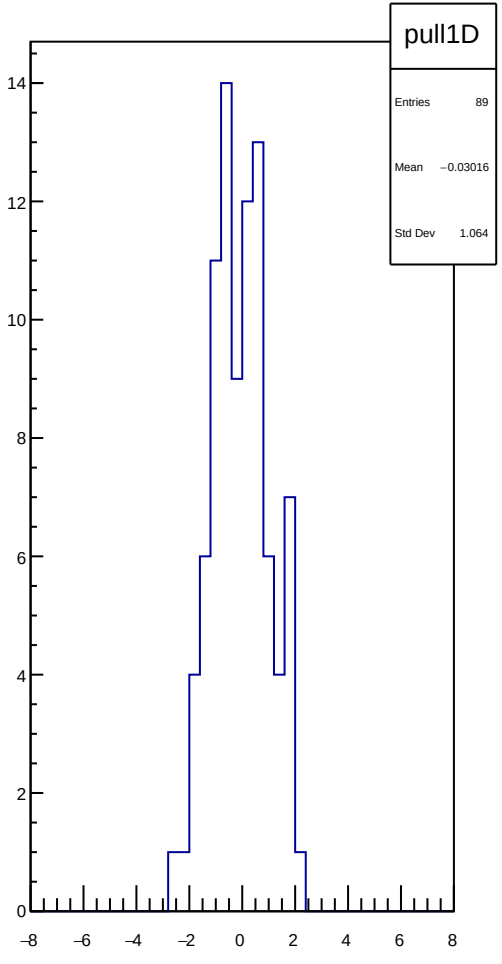

eigen_cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 128.2 / 88
p0 1751 ± 1.33
1800
1780
1760
1740
1720
1700

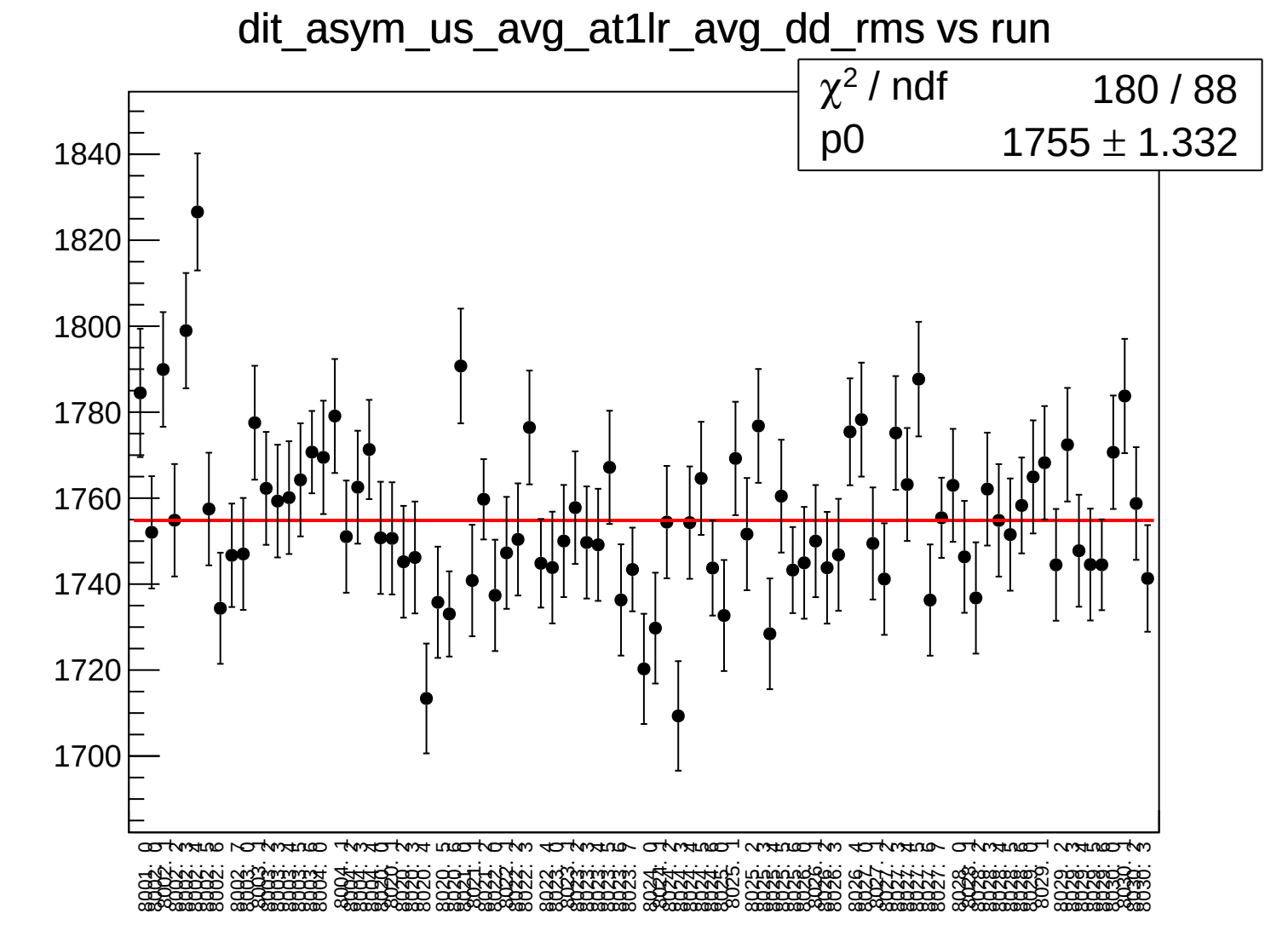

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 97.1 / 88
p0 −13.15 ± 844.5
pull
Entries 89
Mean 263.7
Std Dev 0

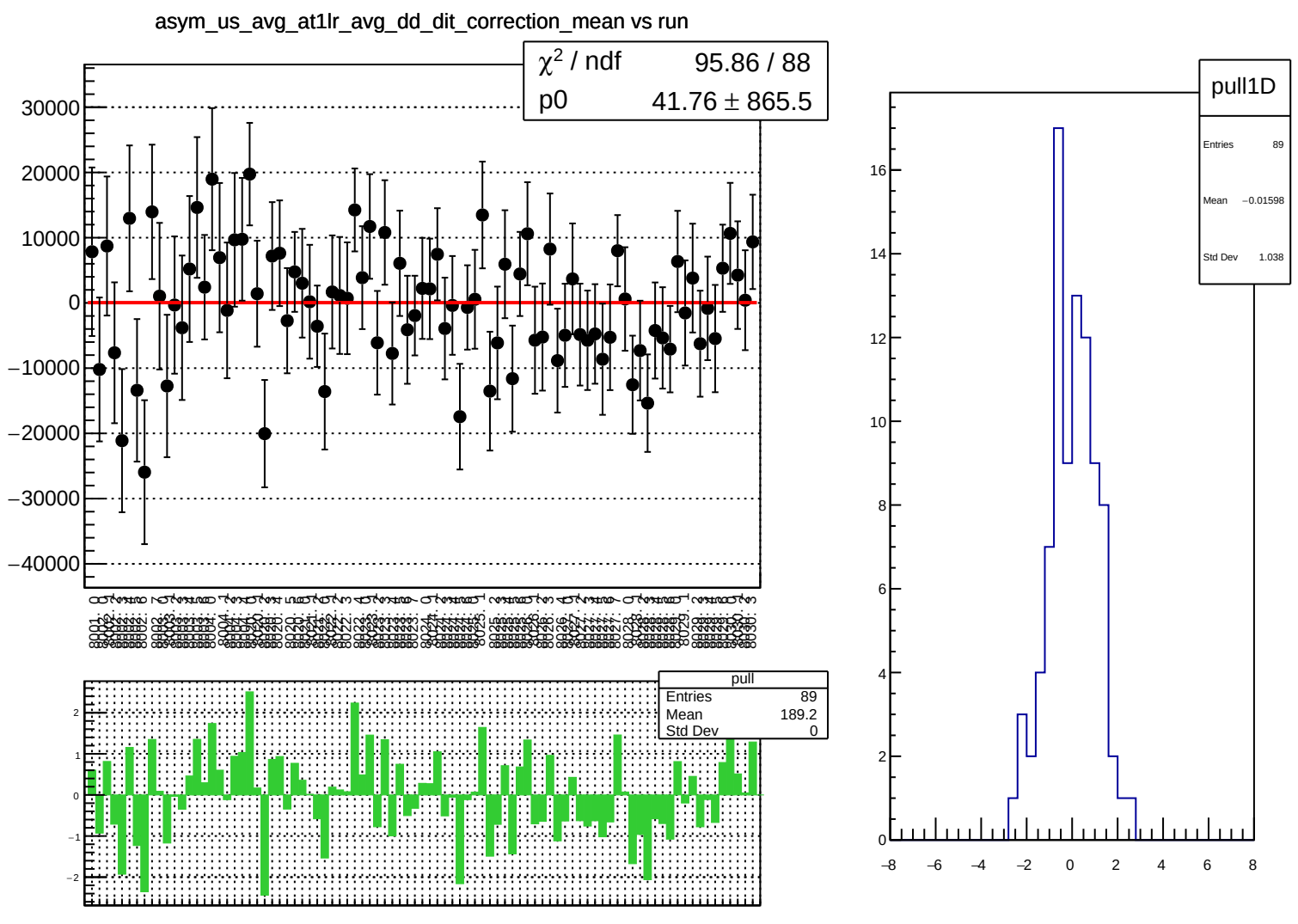

pull1D
Entries 89
Mean −0.01197
Std Dev 1.044

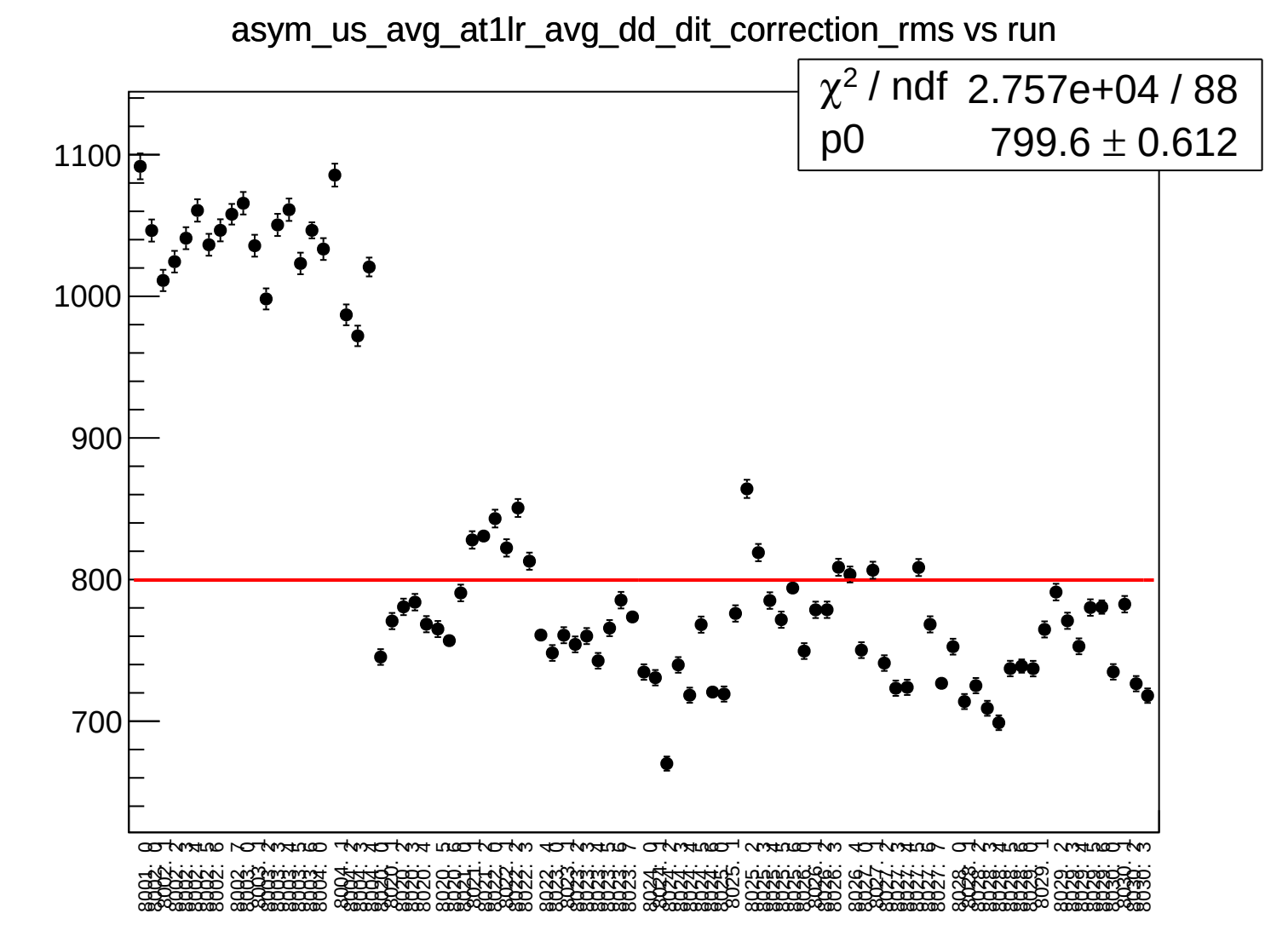

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.45e+04 / 88
p0 780.9 ± 0.5971
1400
1200
1000
800
600

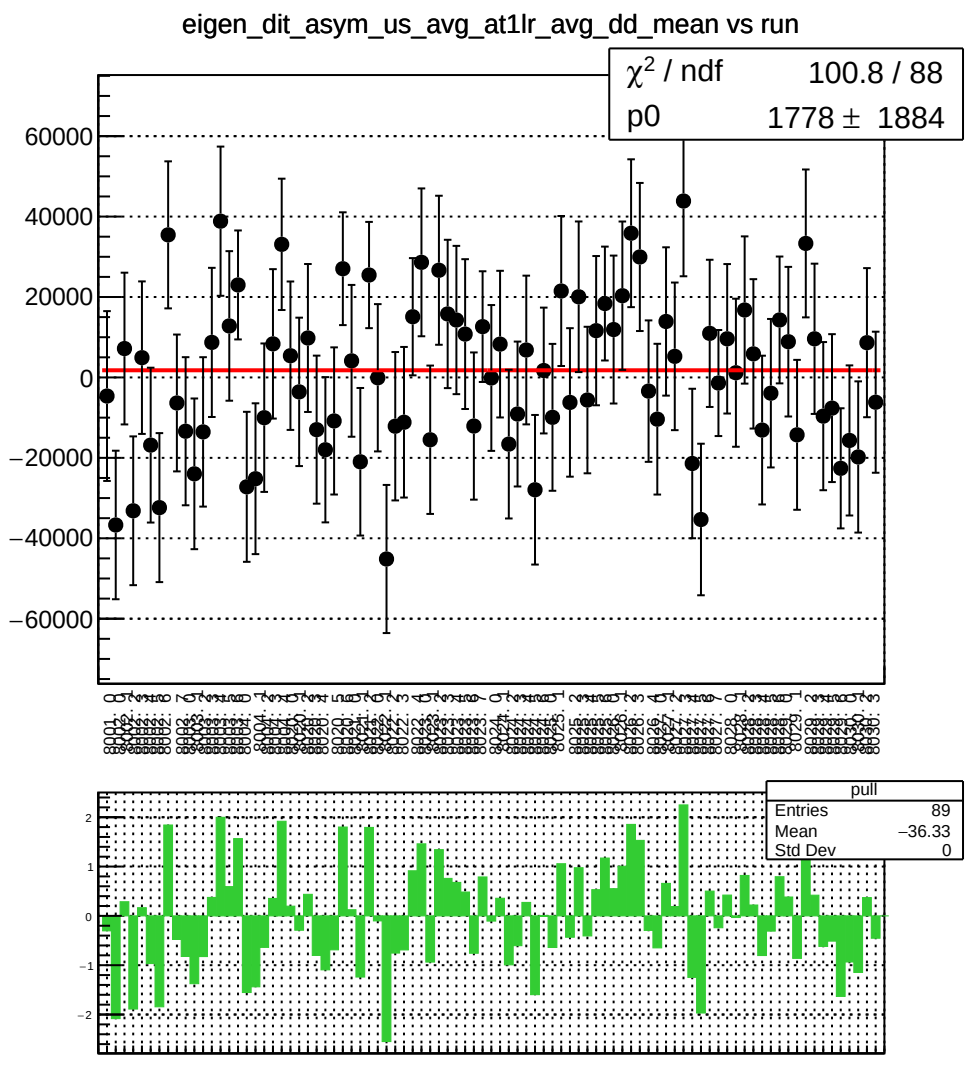

dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 100.8 / 88
p0 1778 ± 1884
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −36.33
Std Dev 0
2
1
0
−1
−2

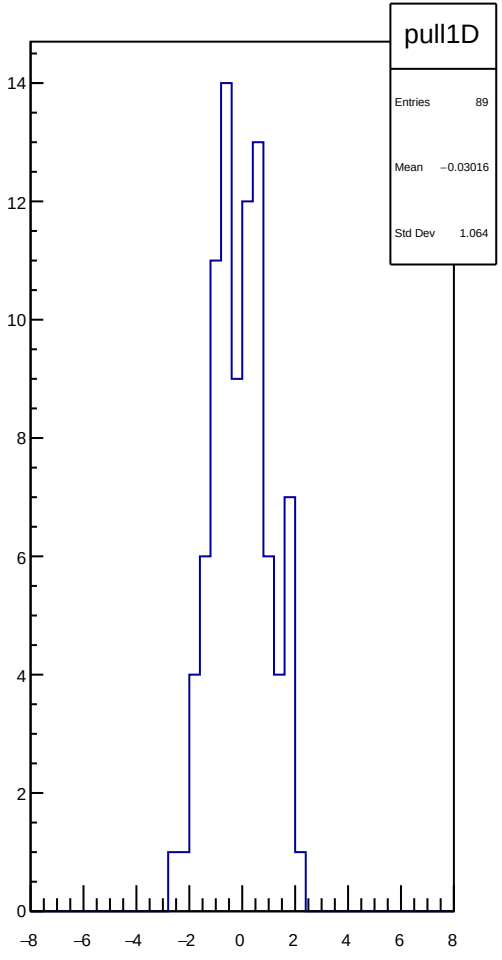

pull1D
Entries 89
Mean −0.03016
Std Dev 1.064
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

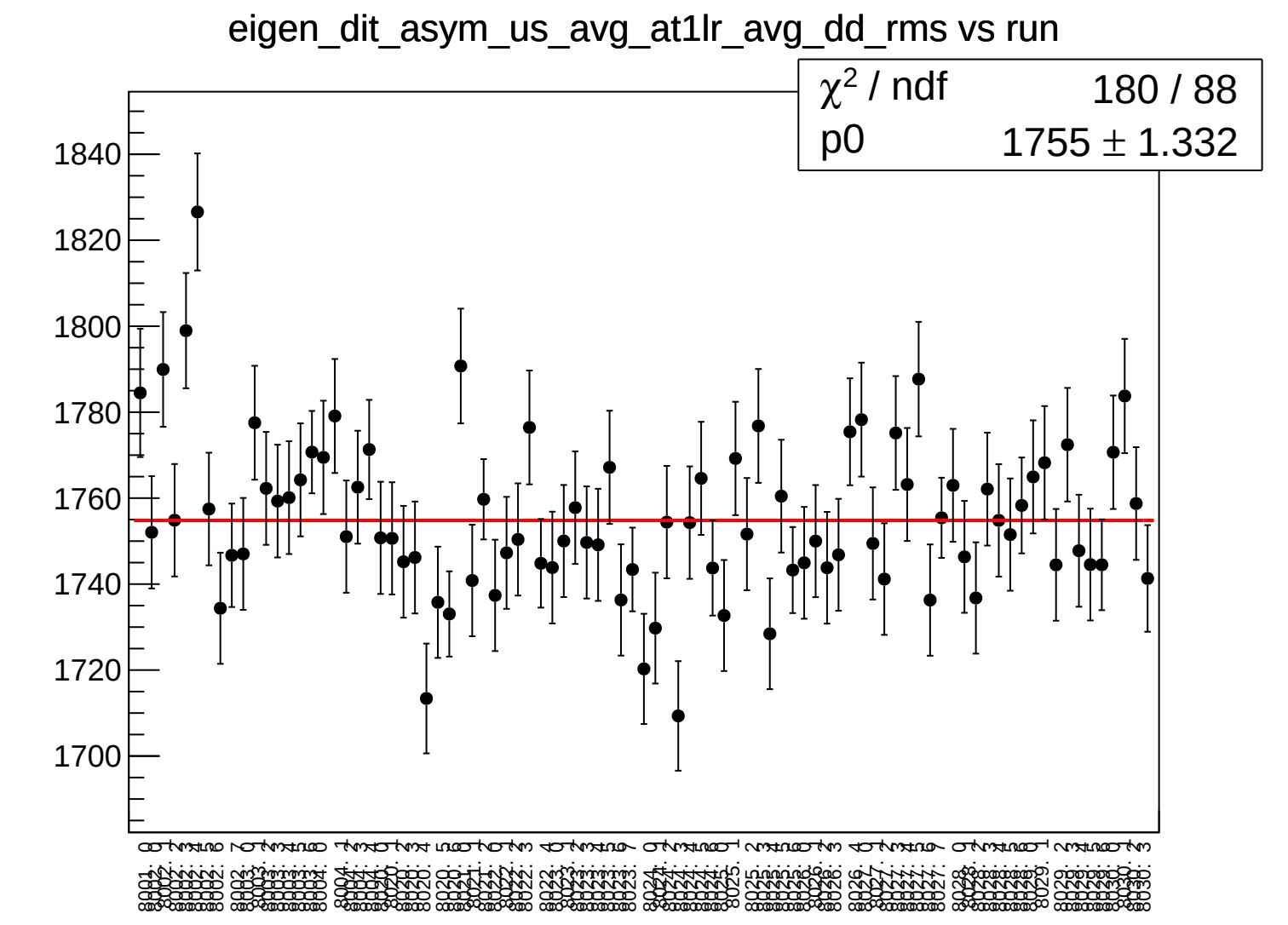

dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ^2 / ndf 180 / 88
p0 1755 ± 1.332
1840
1820
1800
1780
1760
1740
1720
1700

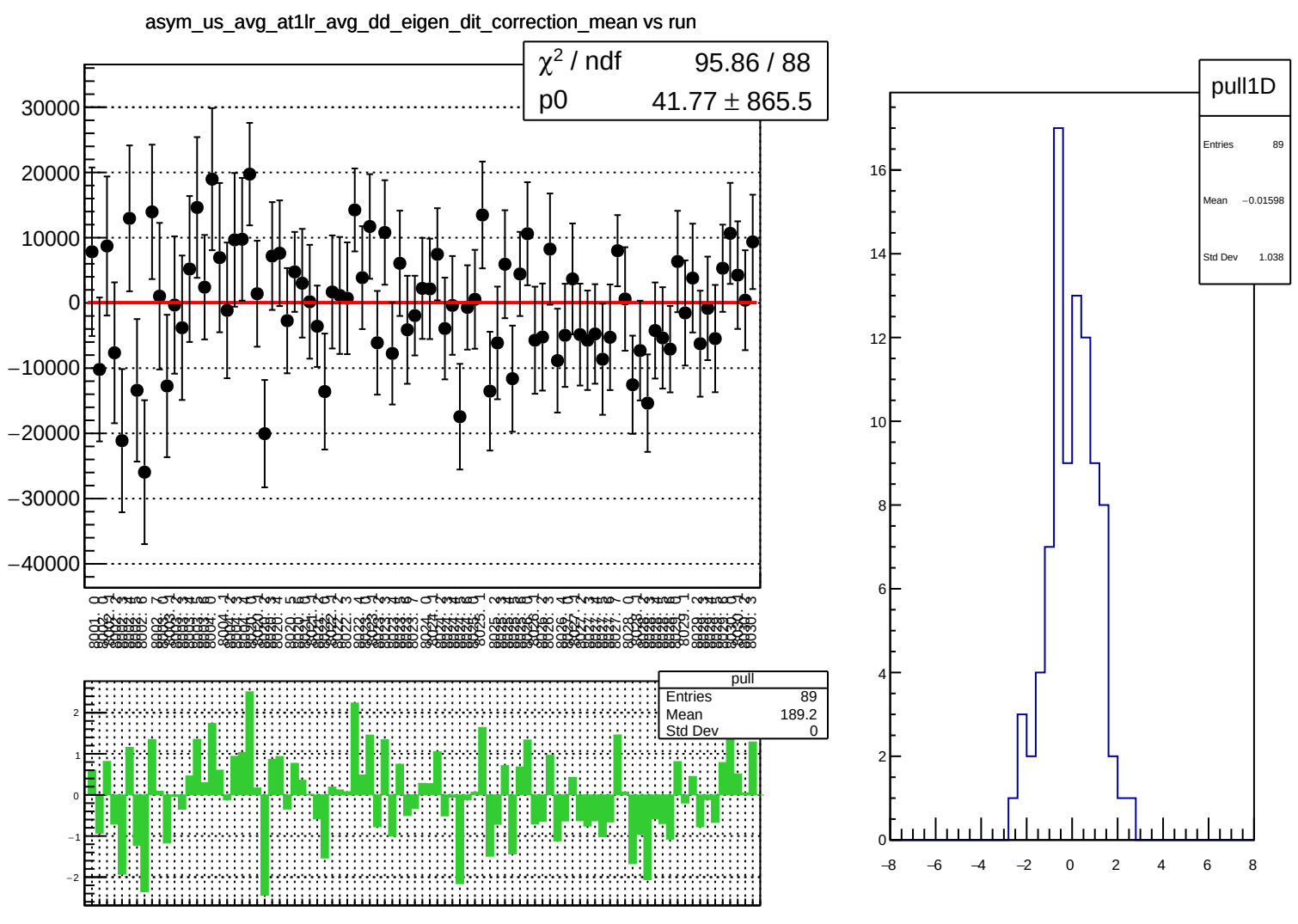

asym_us_avg_at1lr_avg_dd_dit_correction_mean vs run
χ² / ndf 95.86 / 88
p0 41.76 ± 865.5
pull
Entries 89
Mean 189.2
Std Dev 0
pull1D
Entries 89
Mean −0.01598
Std Dev 1.038

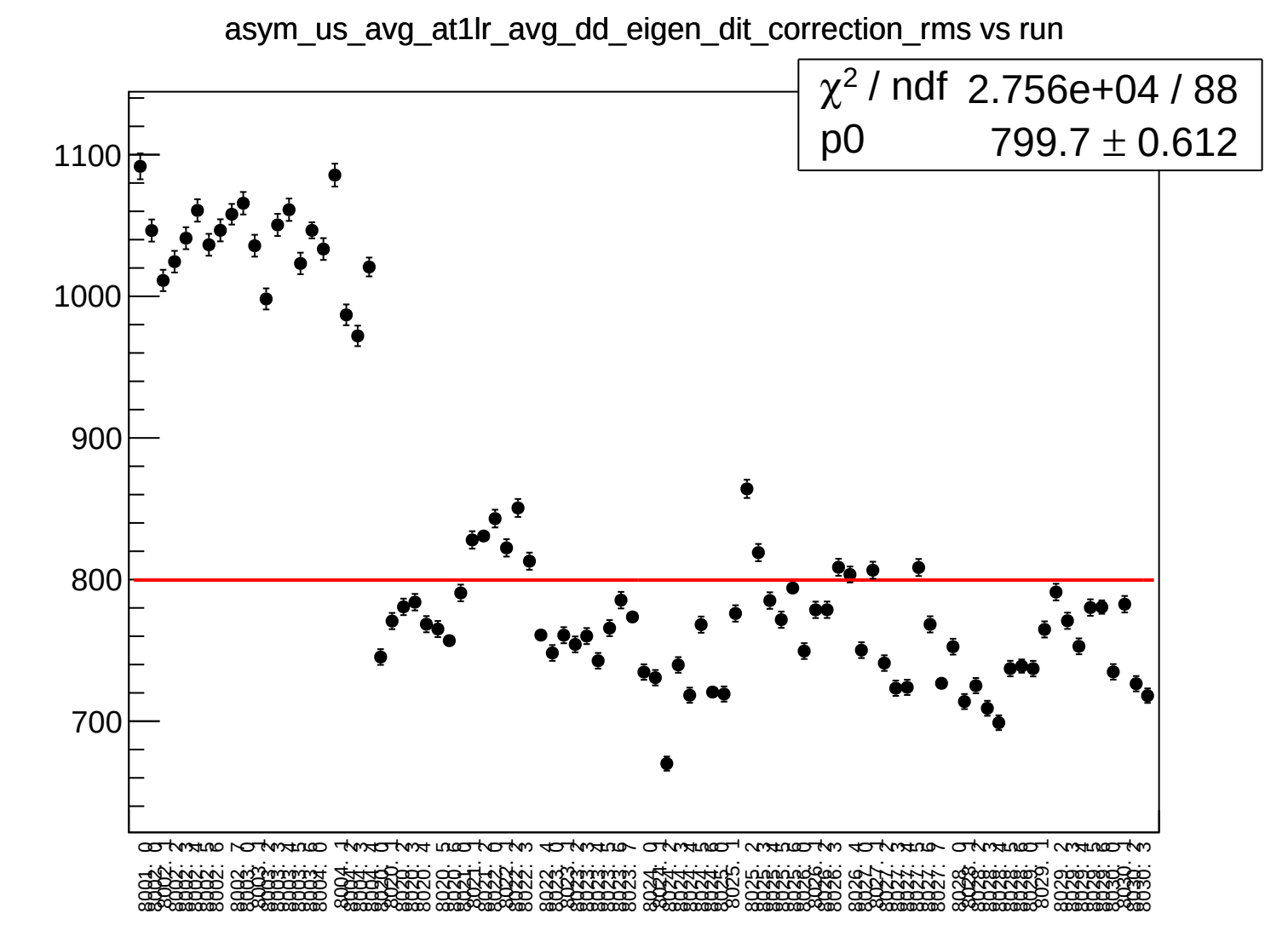

asym_us_avg_at1lr_avg_dd_dit_correction_rms vs run
χ² / ndf 2.757e+04 / 88
p0 799.6 ± 0.612
1100
1000
900
800
700

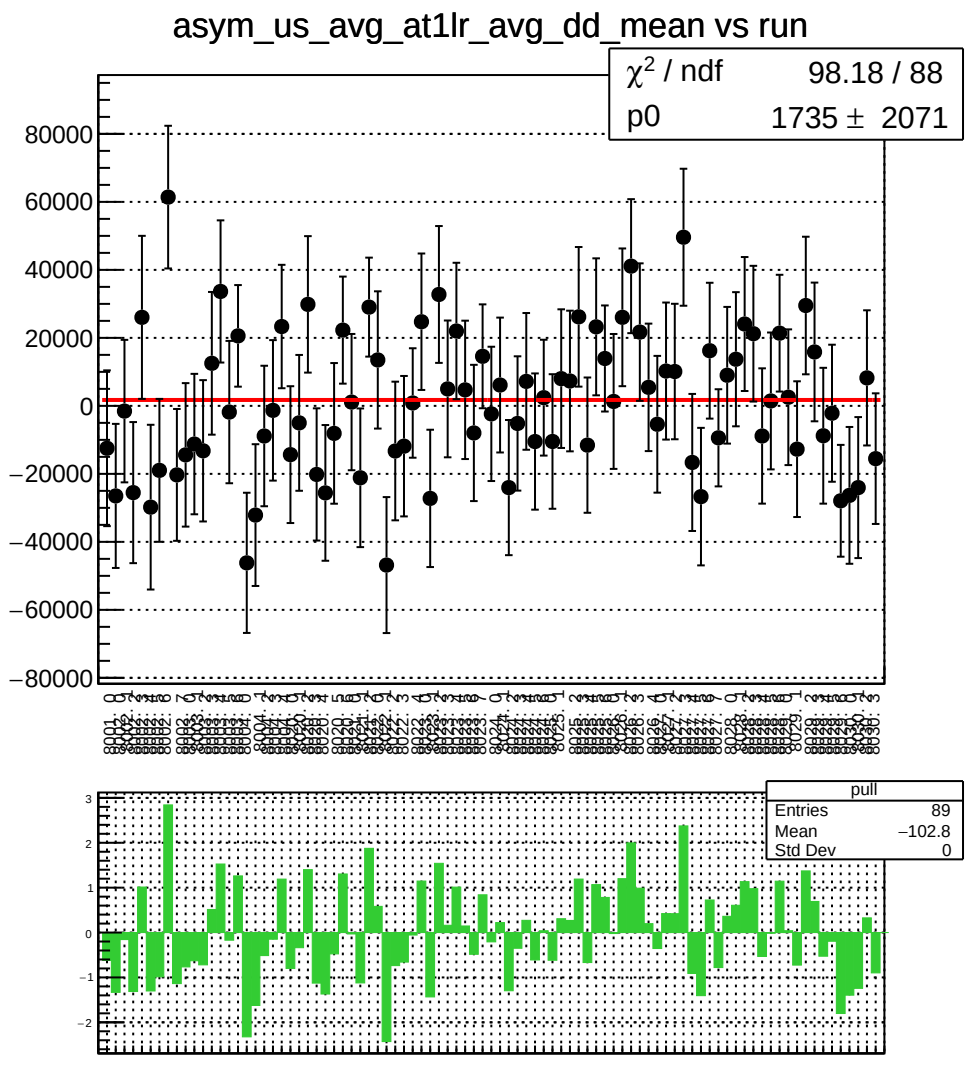

eigen_dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 100.8 / 88
p0 1778 ± 1884
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −36.33
Std Dev 0
2
1
0
−1
−2

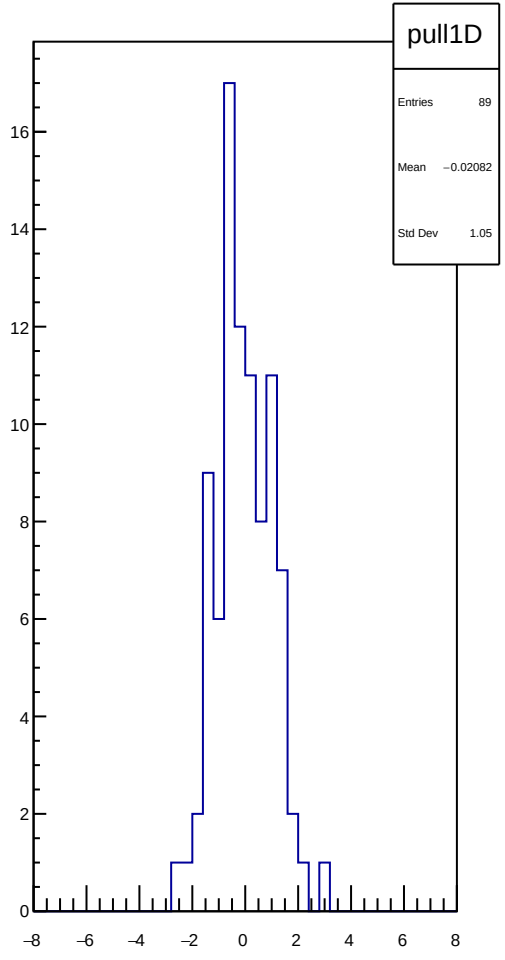

pull1D
Entries 89
Mean −0.03016
Std Dev 1.064
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

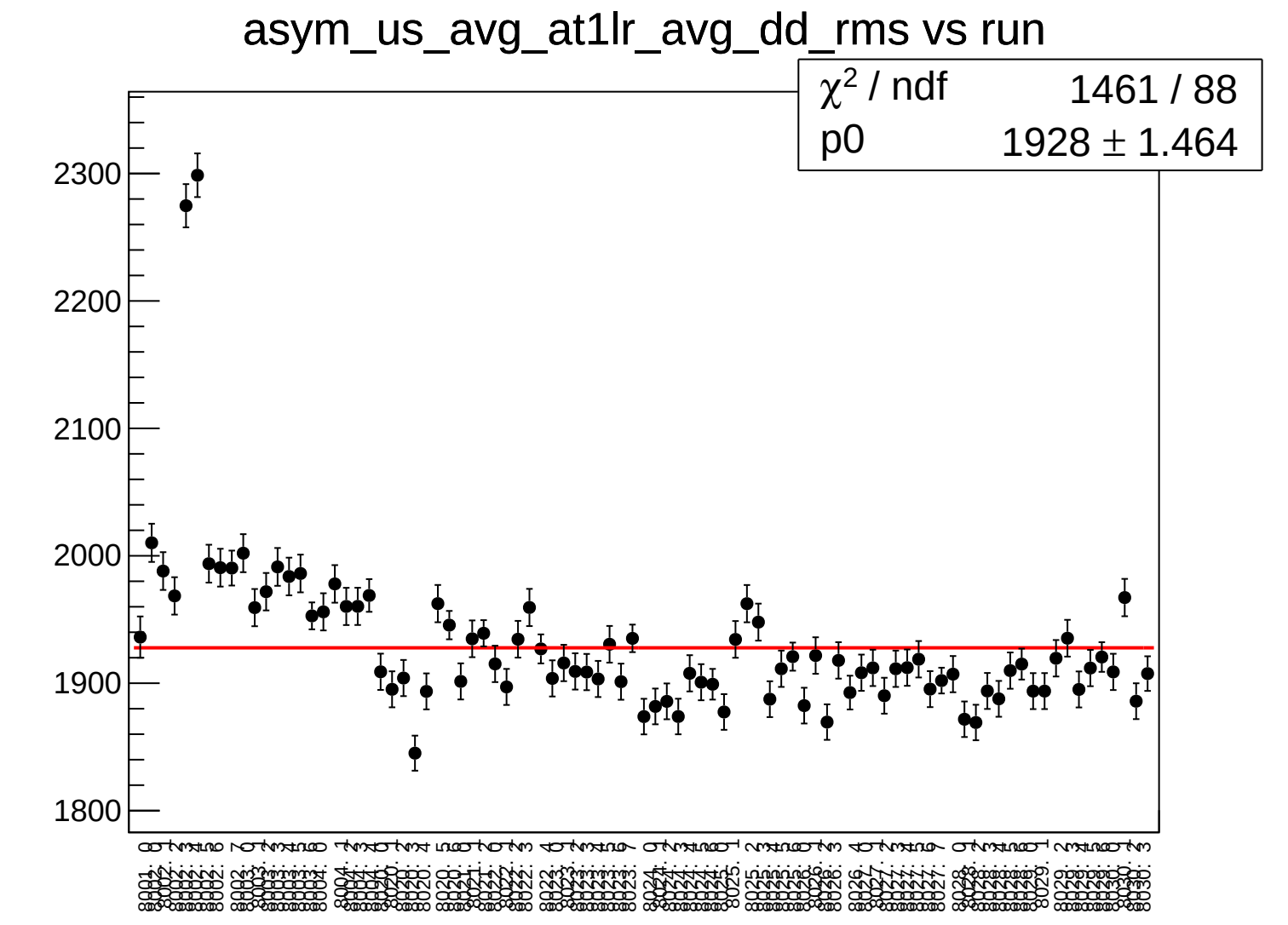

eigen_dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 180 / 88
p0 1755 ± 1.332
1840
1820
1800
1780
1760
1740
1720
1700

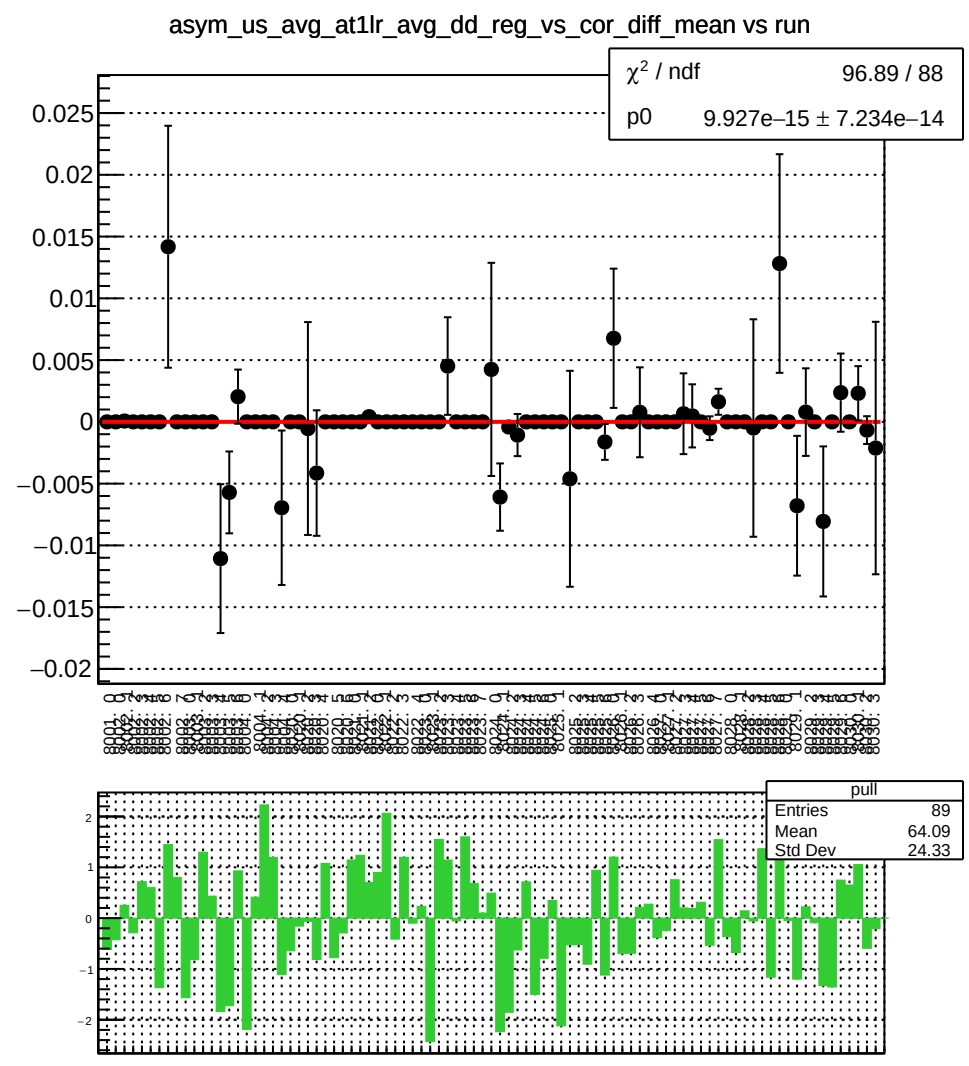

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 95.86 / 88
p0 41.77 ± 865.5
pull
Entries 89
Mean 189.2
Std Dev 0
pull1D
Entries 89
Mean −0.01598
Std Dev 1.038

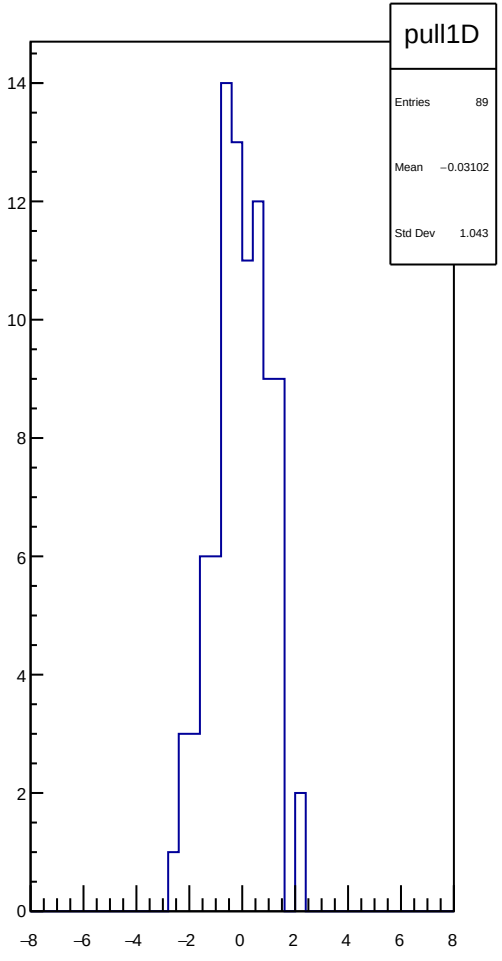

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.756e+04 / 88
p0 799.7 ± 0.612
1100
1000
900
800
700

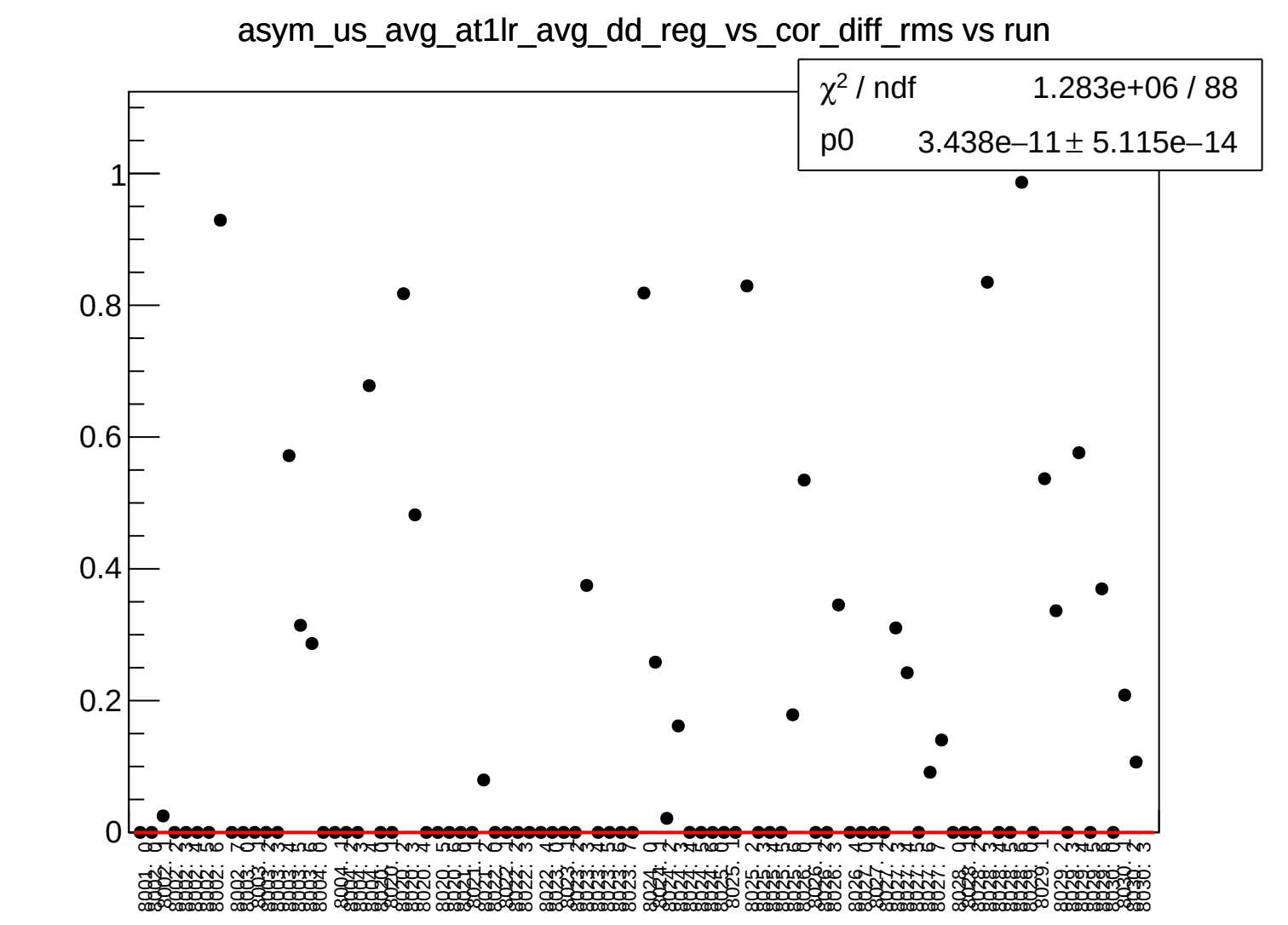

asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 98.18 / 88
p0 1735 ± 2071
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −102.8
Std Dev 0
3
2
1
0
−1
−2

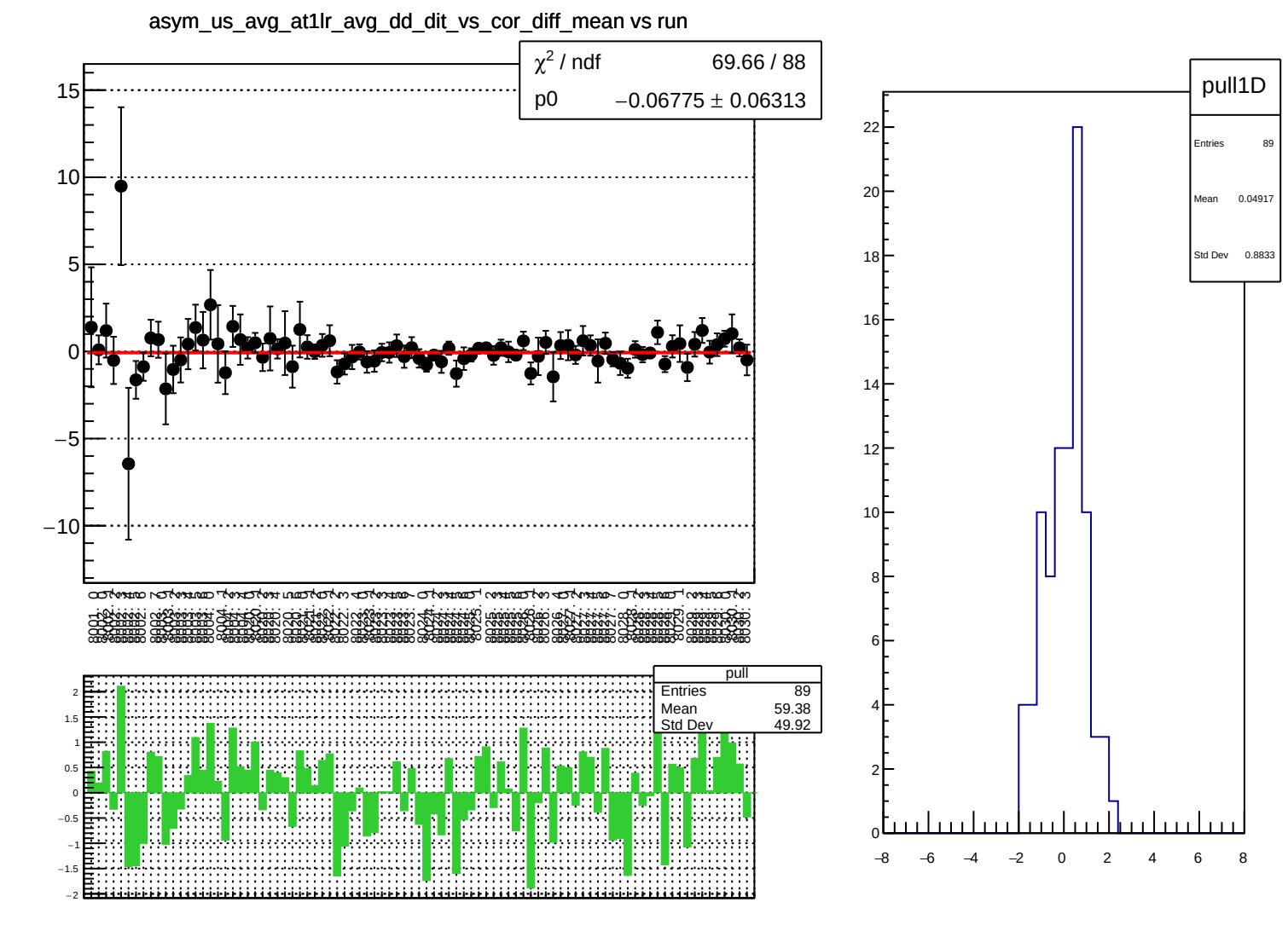

pull1D
Entries 89
Mean −0.02082
Std Dev 1.05
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

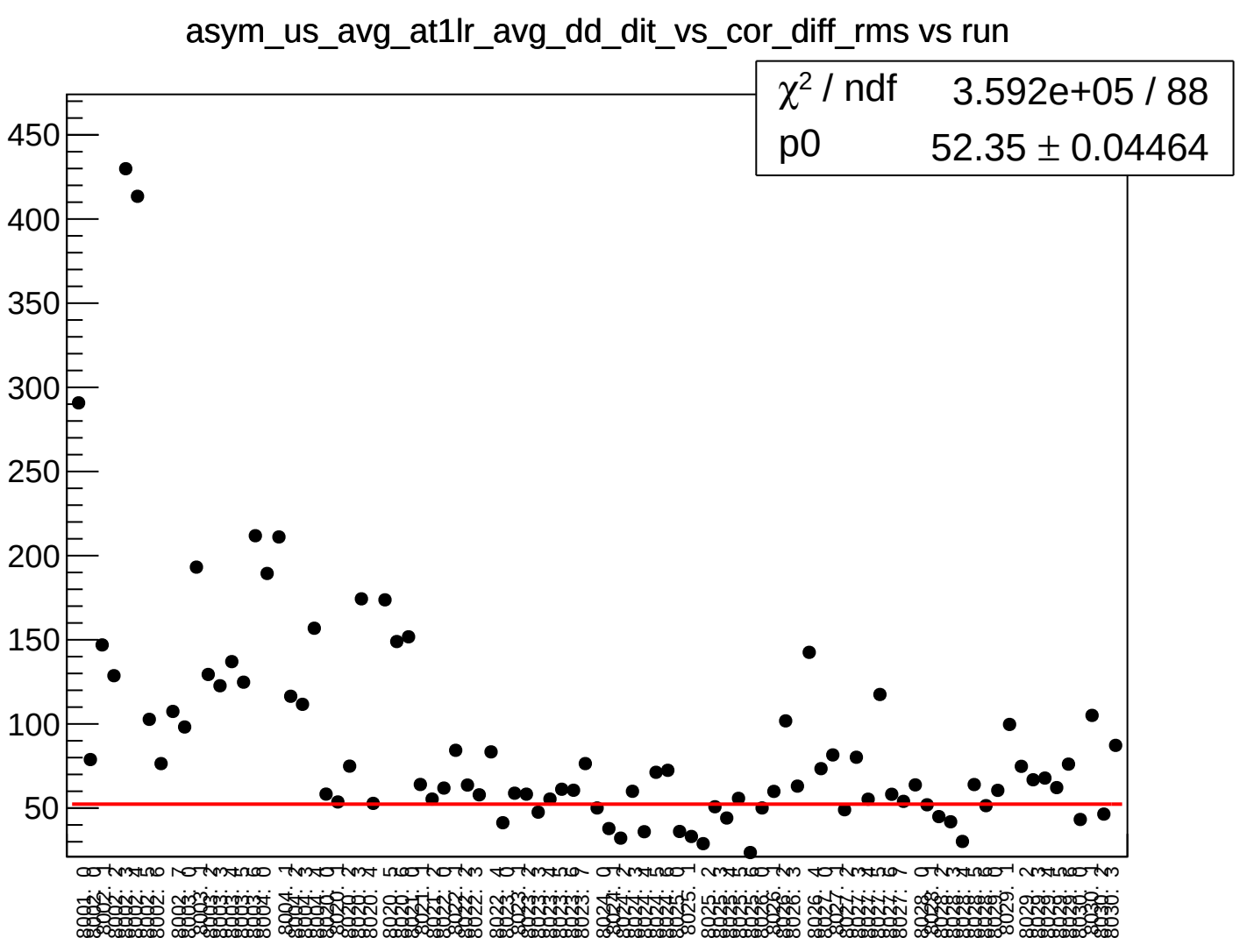

asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 1461 / 88
p0 1928 ± 1.464
2300
2200
2100
2000
1900
1800

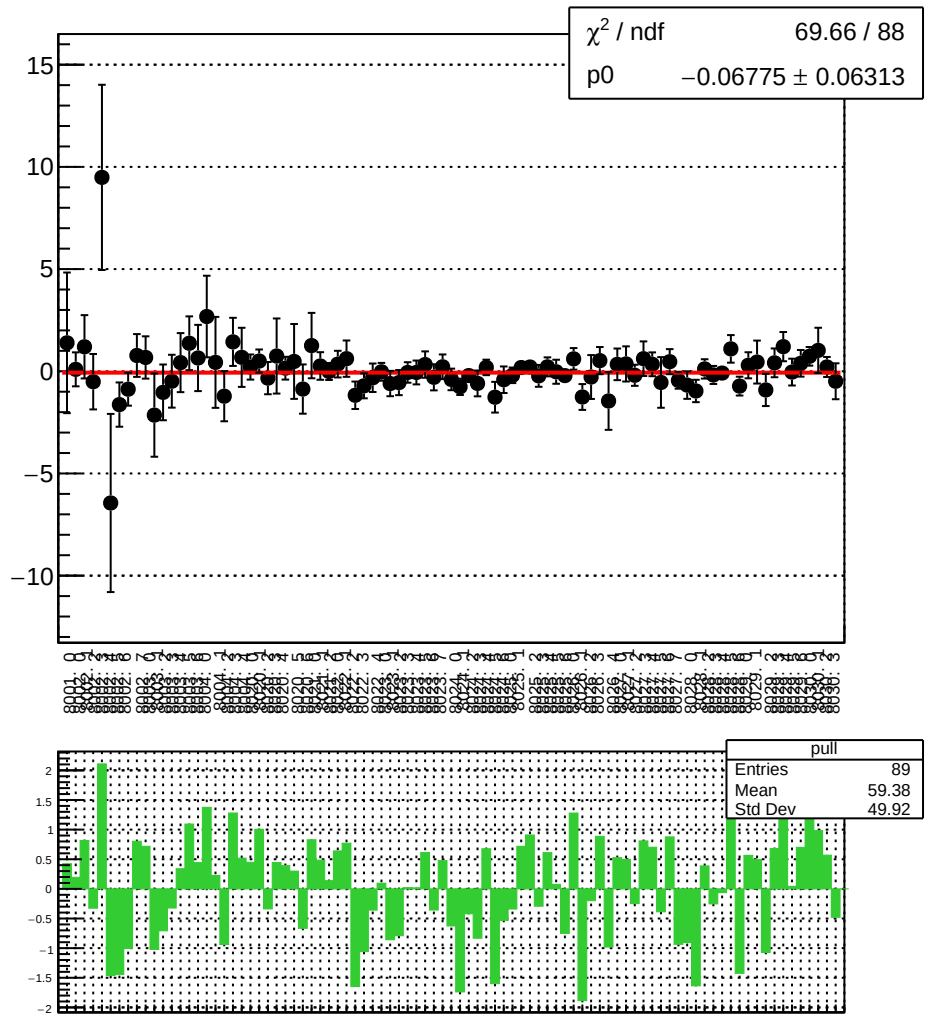

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 96.89 / 88
p0 9.927e−15 ± 7.234e−14
pull
Entries 89
Mean 64.09
Std Dev 24.33

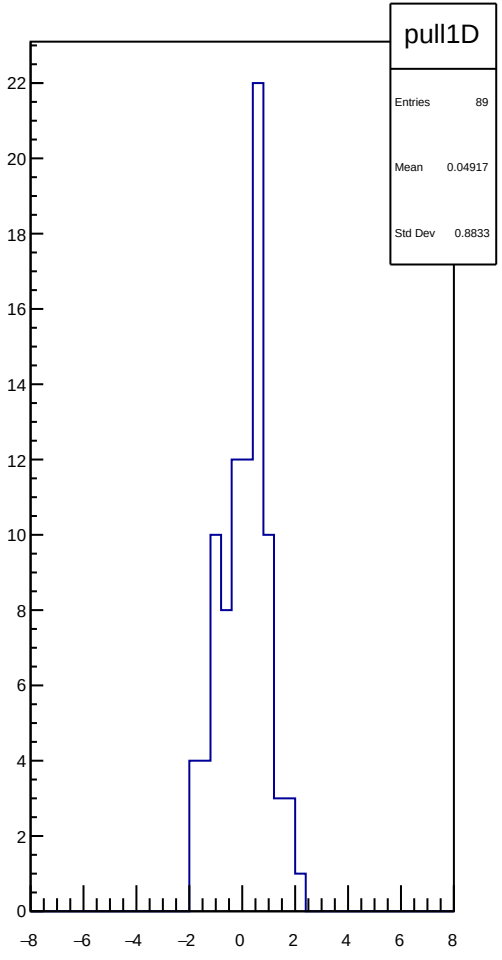

pull1D
Entries 89
Mean −0.03102
Std Dev 1.043

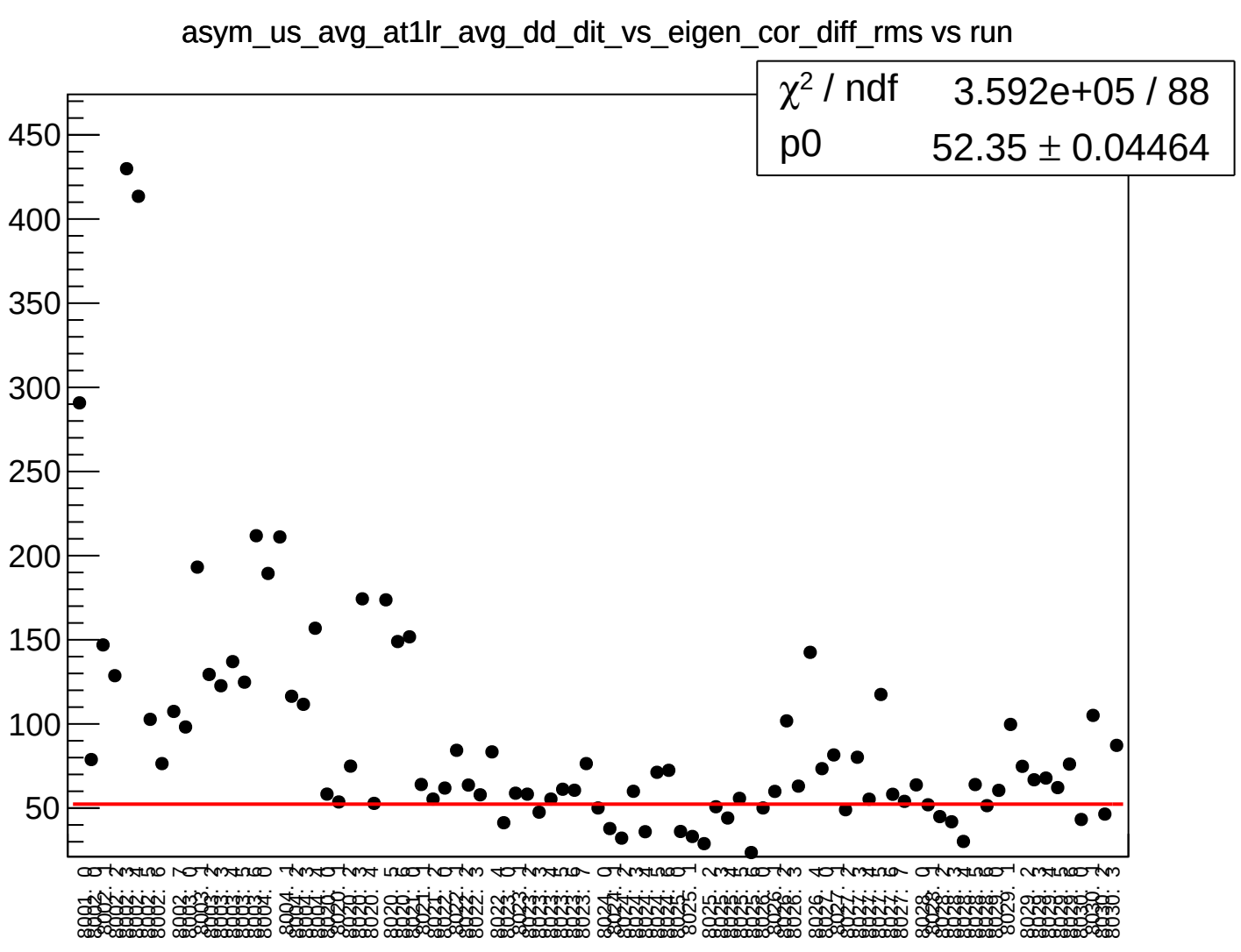

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.283e+06 / 88
p0 3.438e−11 ± 5.115e−14
1
0.8
0.6
0.4
0.2
0

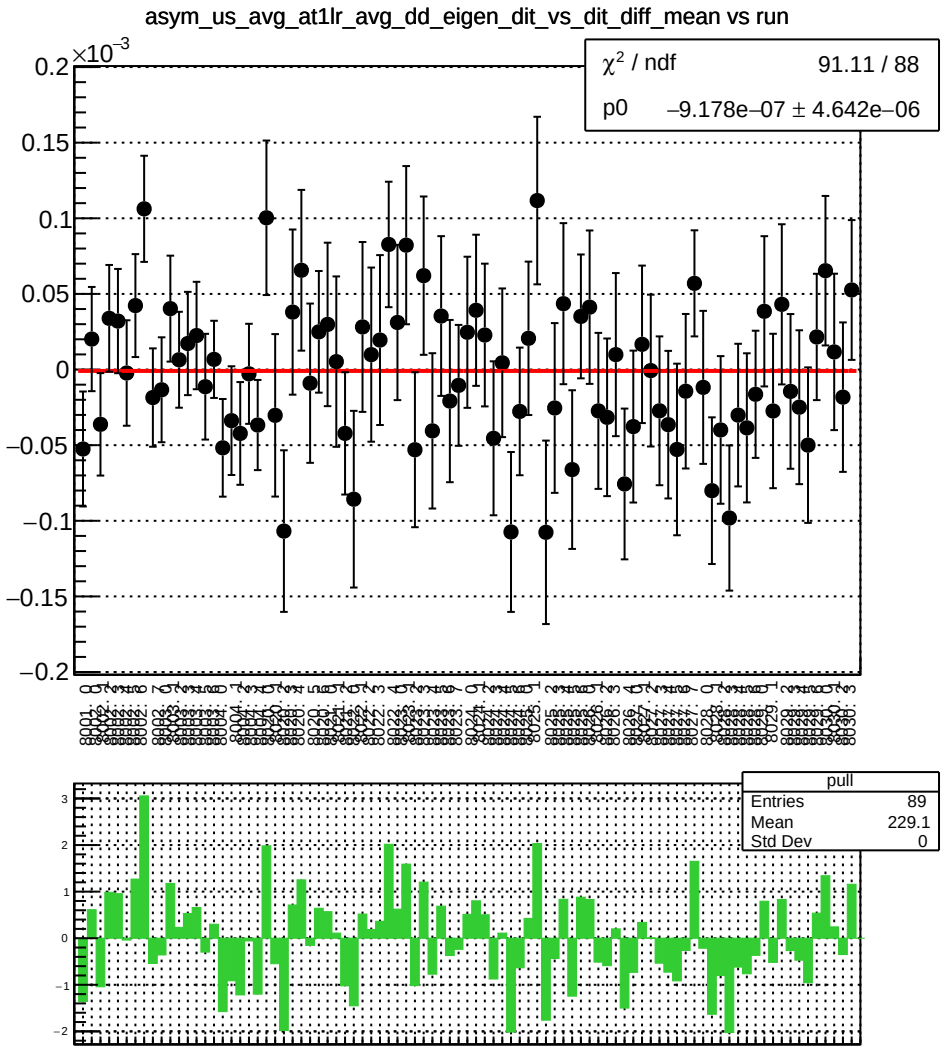

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 69.66 / 88
p0 −0.06775 ± 0.06313
pull
Entries 89
Mean 59.38
Std Dev 49.92
pull1D
Entries 89
Mean 0.04917
Std Dev 0.8833

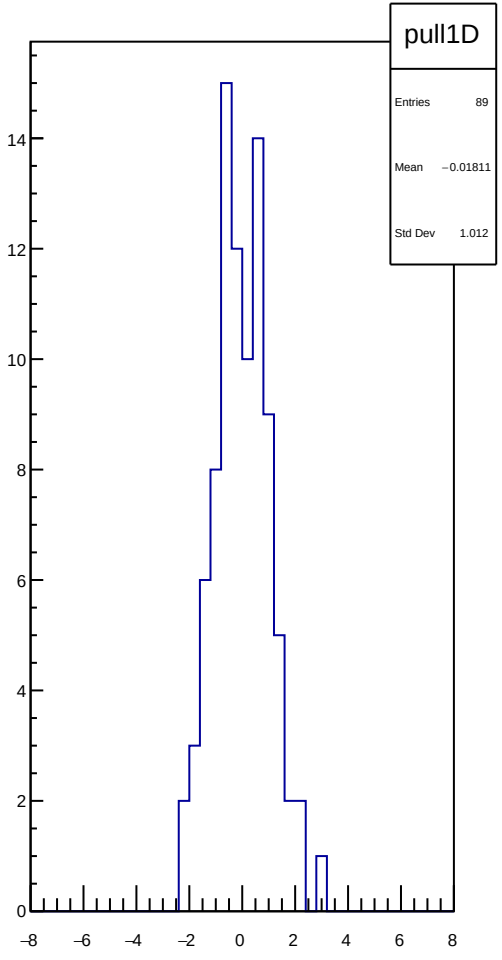

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.592e+05 / 88
p0 52.35 ± 0.04464
450
400
350
300
250
200
150
100
50

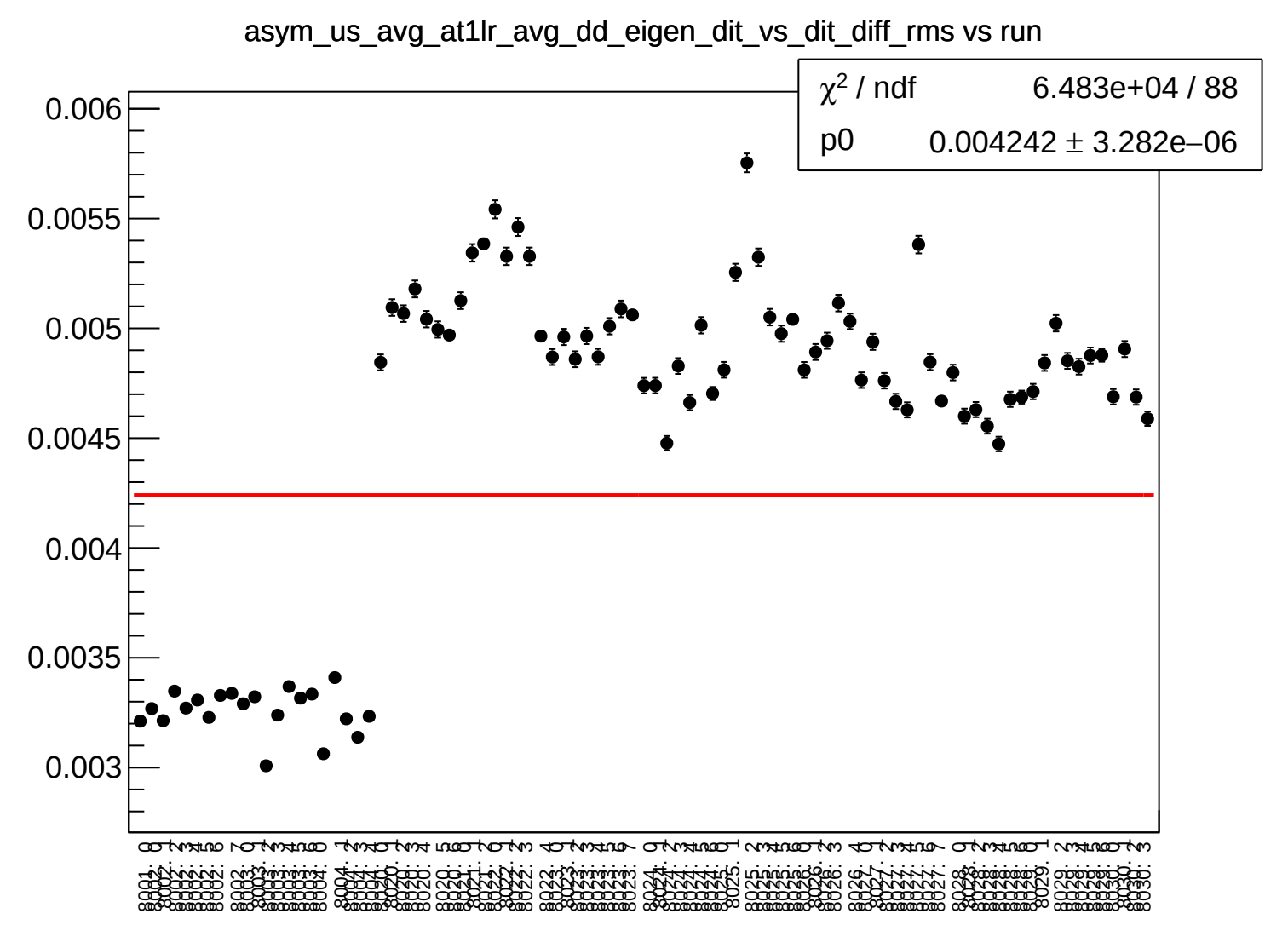

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.66 / 88
p0 −0.06775 ± 0.06313
pull
Entries 89
Mean 59.38
Std Dev 49.92

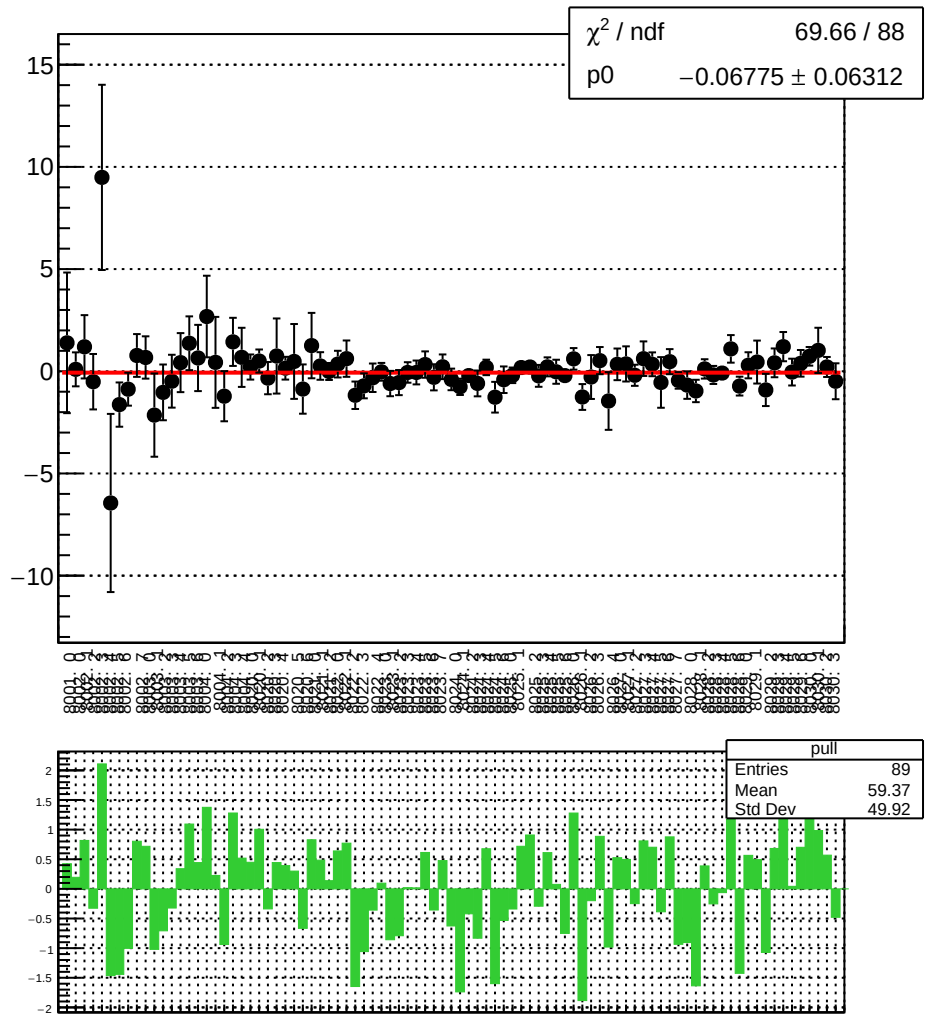

pull1D
Entries 89
Mean 0.04917
Std Dev 0.8833

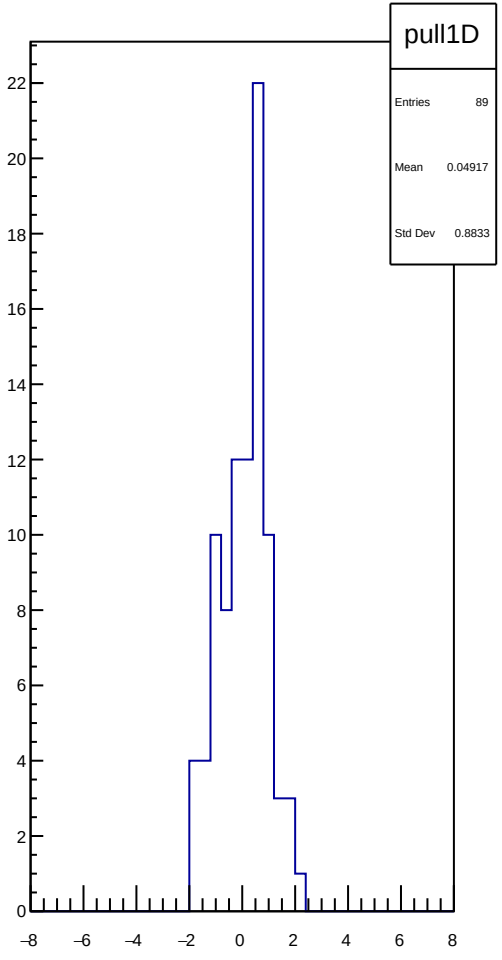

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.592e+05 / 88
p0 52.35 ± 0.04464
450
400
350
300
250
200
150
100
50

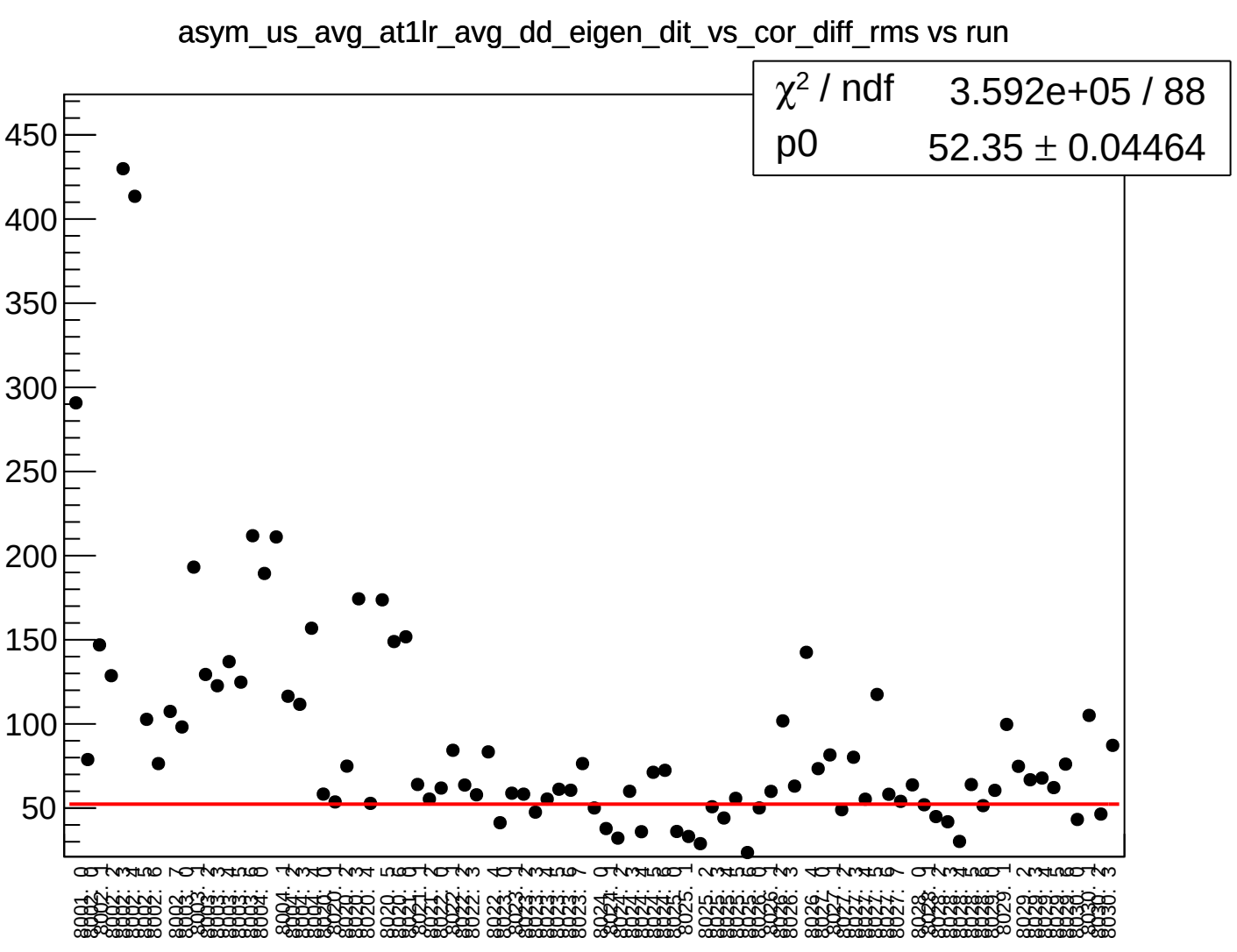

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.11 / 88
p0 −9.178e−07 ± 4.642e−06
pull
Entries 89
Mean 229.1
Std Dev 0

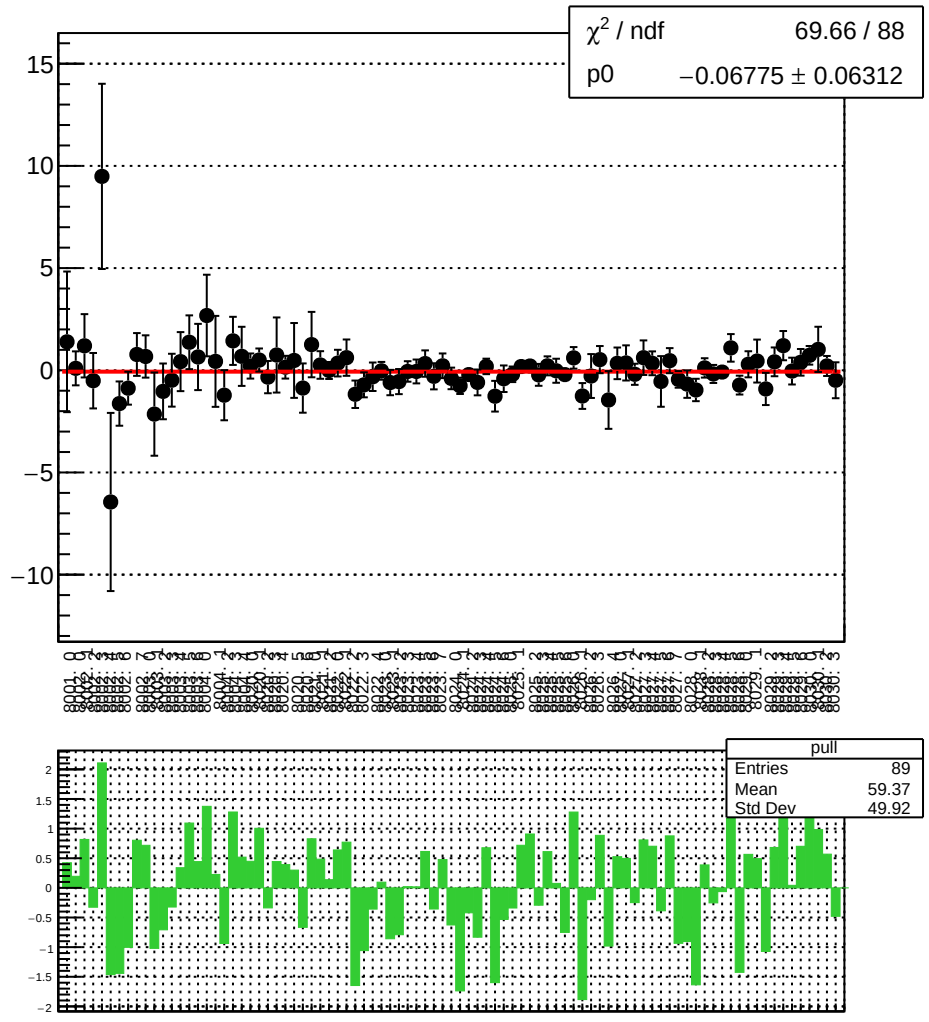

pull1D
Entries 89
Mean −0.01811
Std Dev 1.012

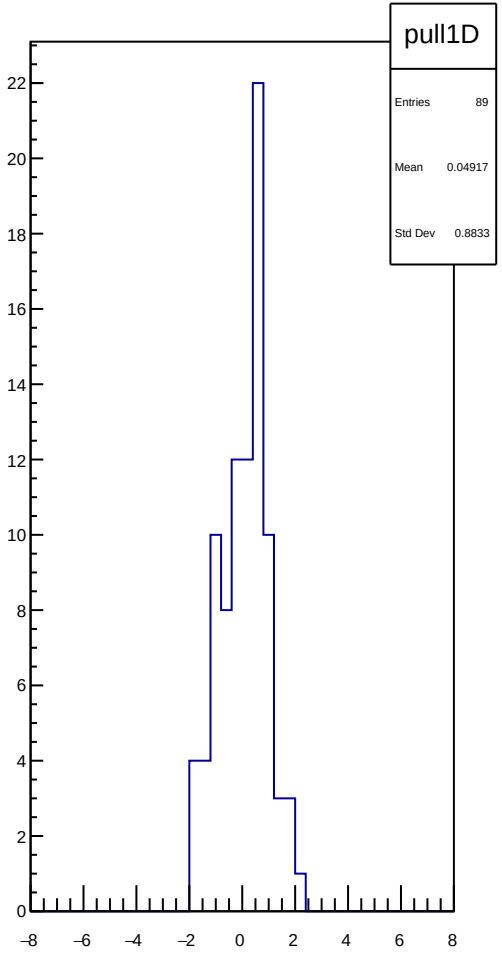

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.483e+04 / 88
p0 0.004242 ± 3.282e−06
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003

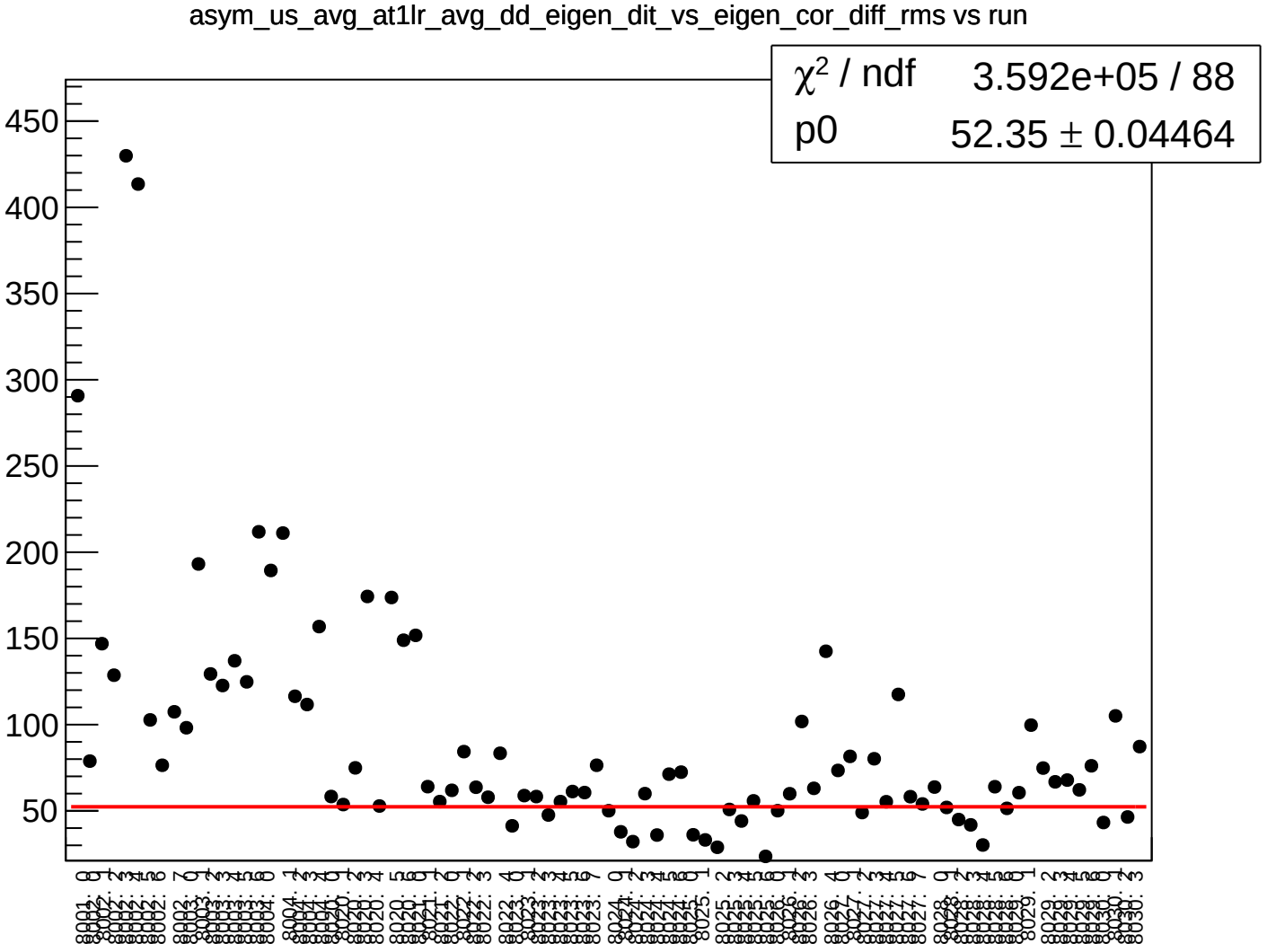

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 69.66 / 88
p0 −0.06775 ± 0.06312
pull
Entries 89
Mean 59.37
Std Dev 49.92

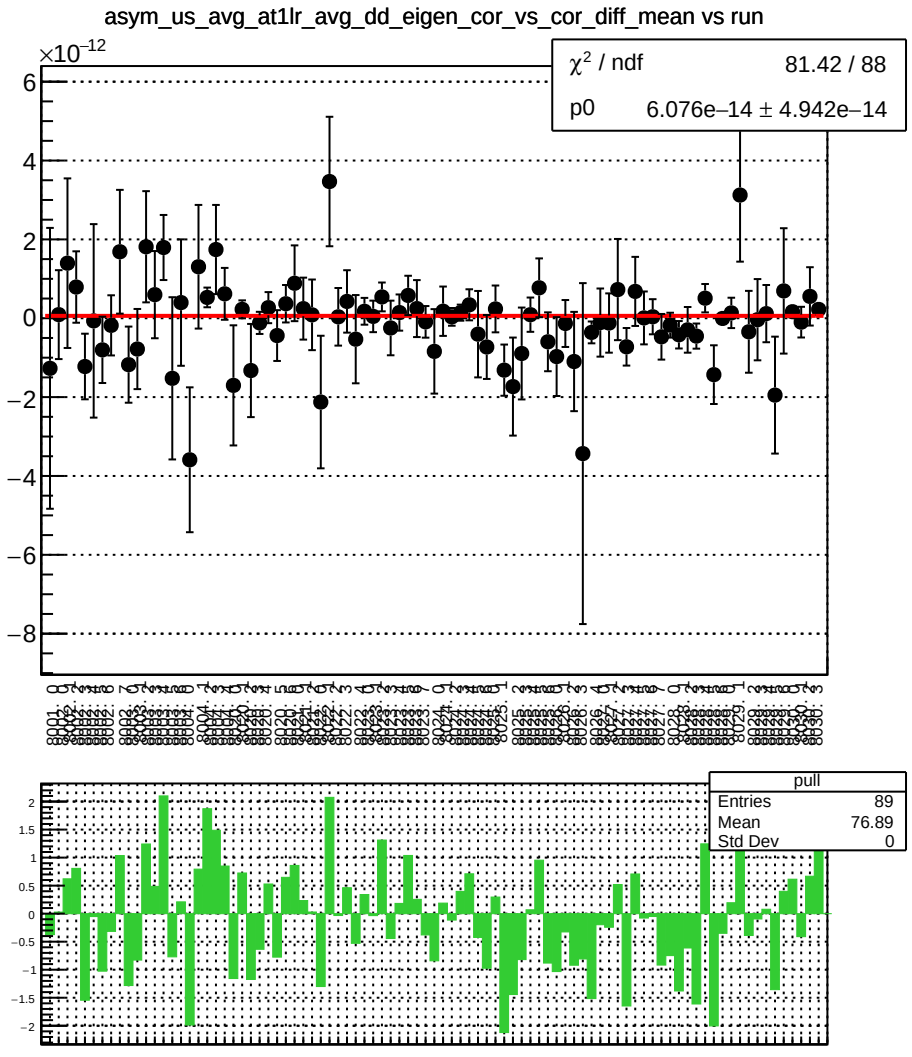

pull1D
Entries 89
Mean 0.04917
Std Dev 0.8833

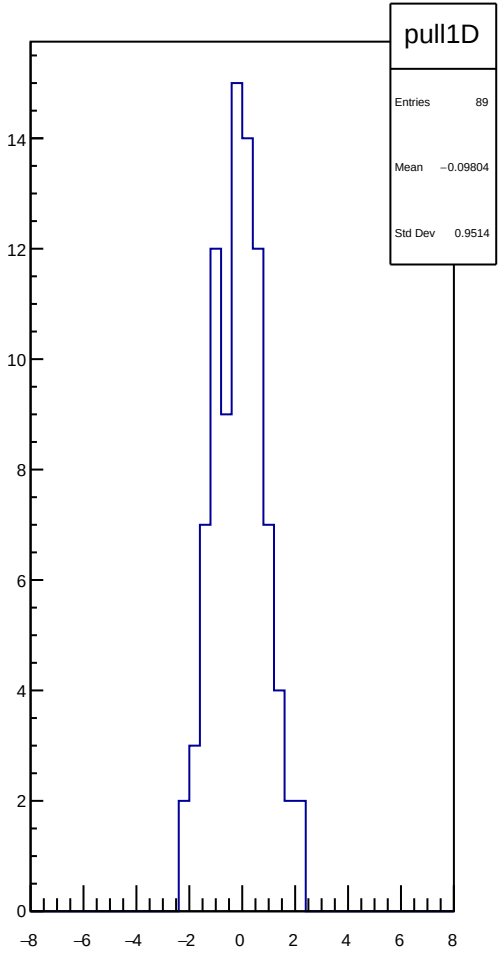

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.592e+05 / 88
p0 52.35 ± 0.04464
450
400
350
300
250
200
150
100
50

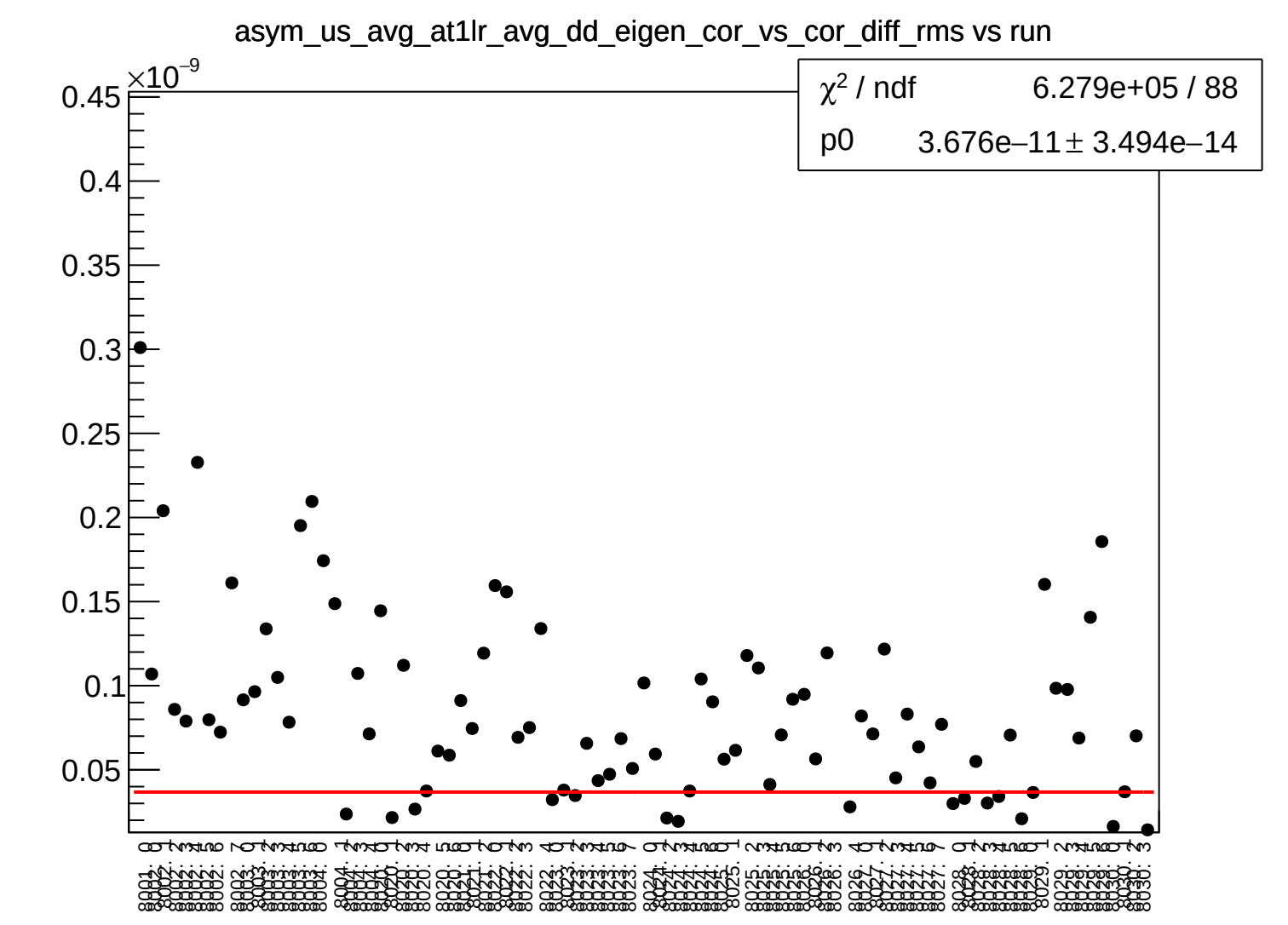

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.66 / 88
p0 −0.06775 ± 0.06312
pull
Entries 89
Mean 59.37
Std Dev 49.92

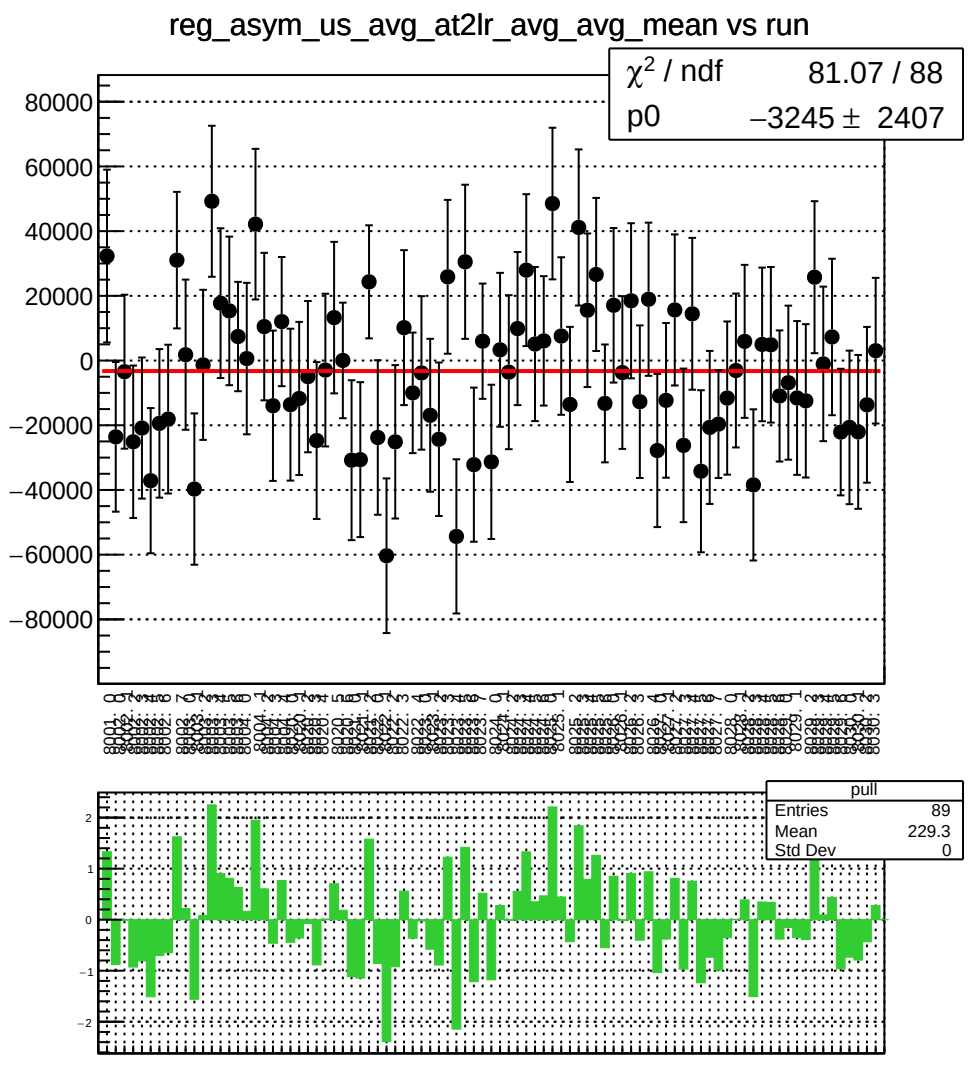

pull1D
Entries 89
Mean 0.04917
Std Dev 0.8833

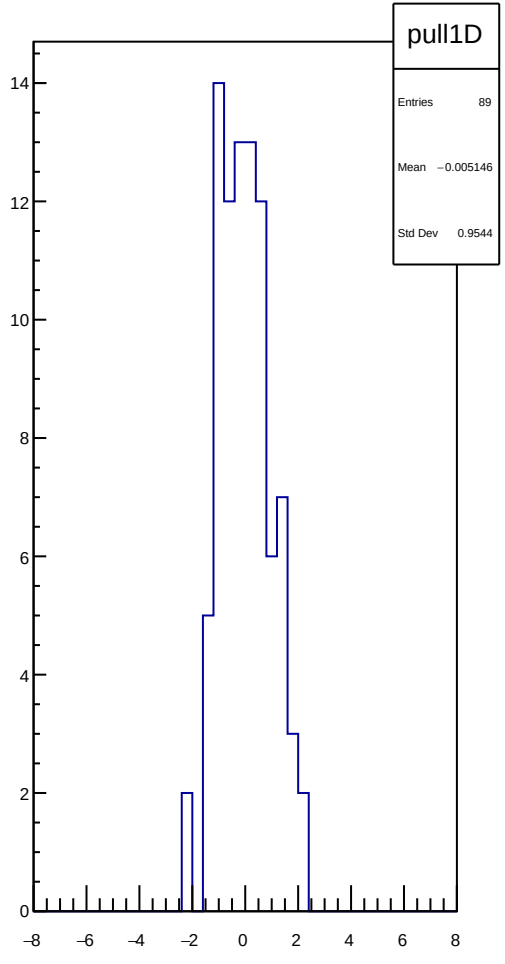

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.592e+05 / 88
p0 52.35 ± 0.04464
450
400
350
300
250
200
150
100
50

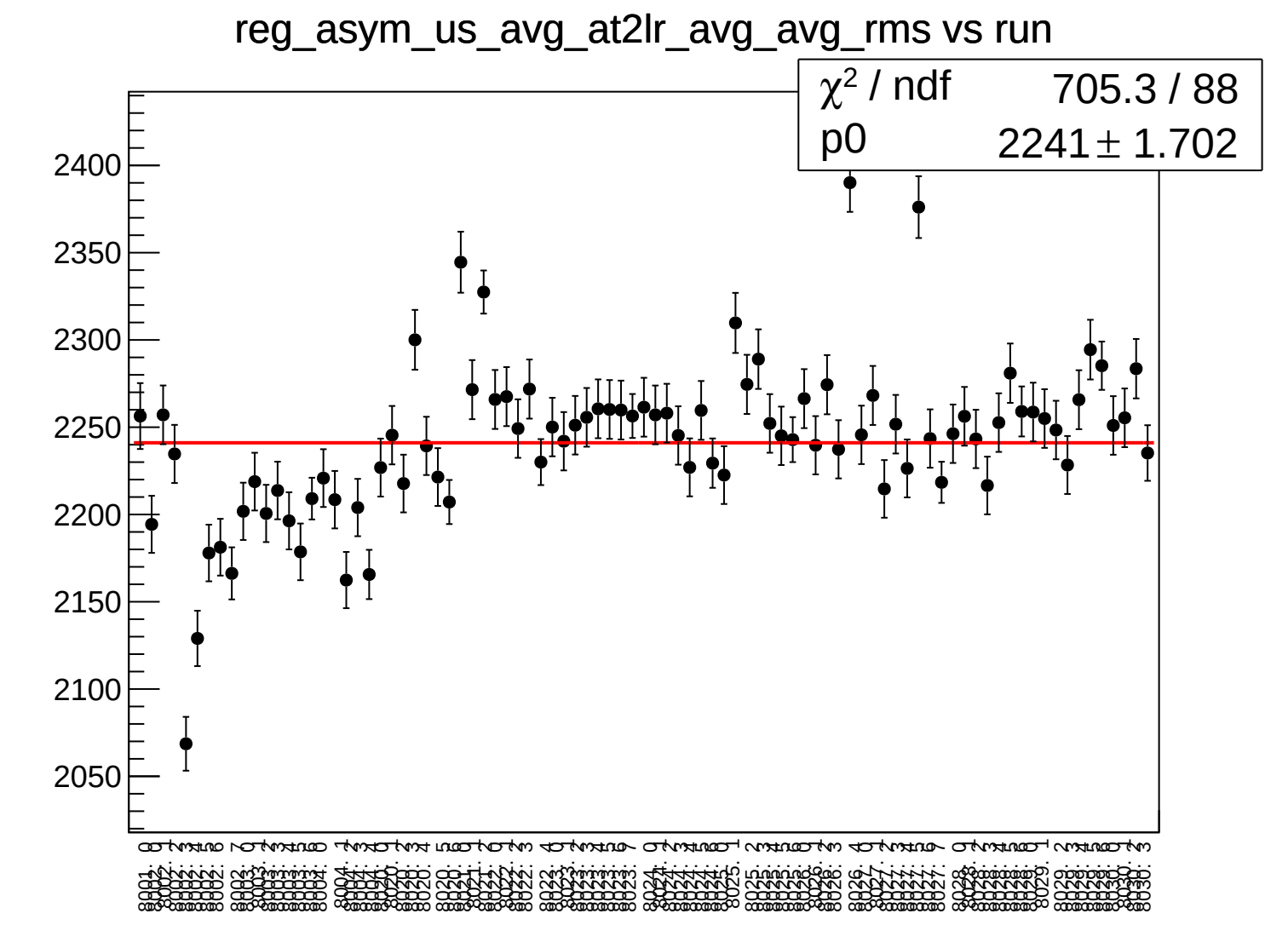

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.42 / 88
p0 6.076e−14 ± 4.942e−14
pull
Entries 89
Mean 76.89
Std Dev 0

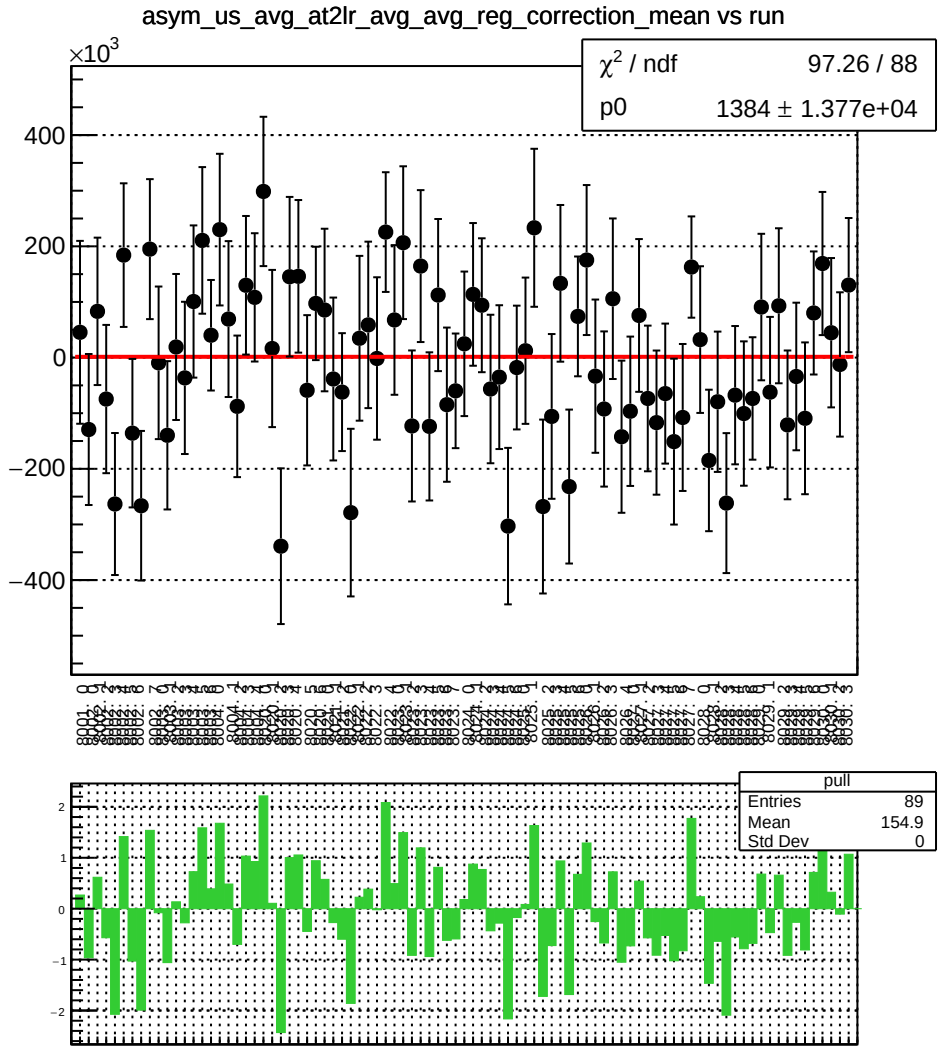

pull1D
Entries 89
Mean −0.09804
Std Dev 0.9514

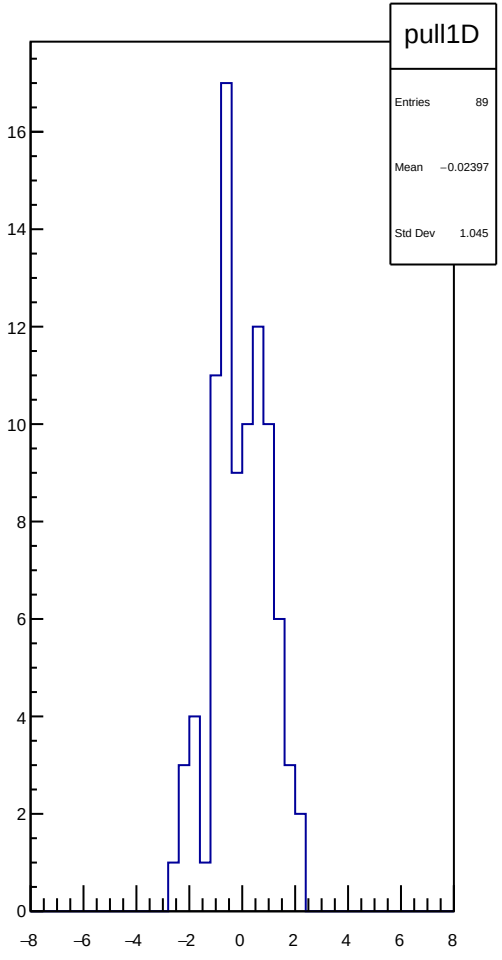

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.279e+05 / 88
p0 3.676e−11 ± 3.494e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

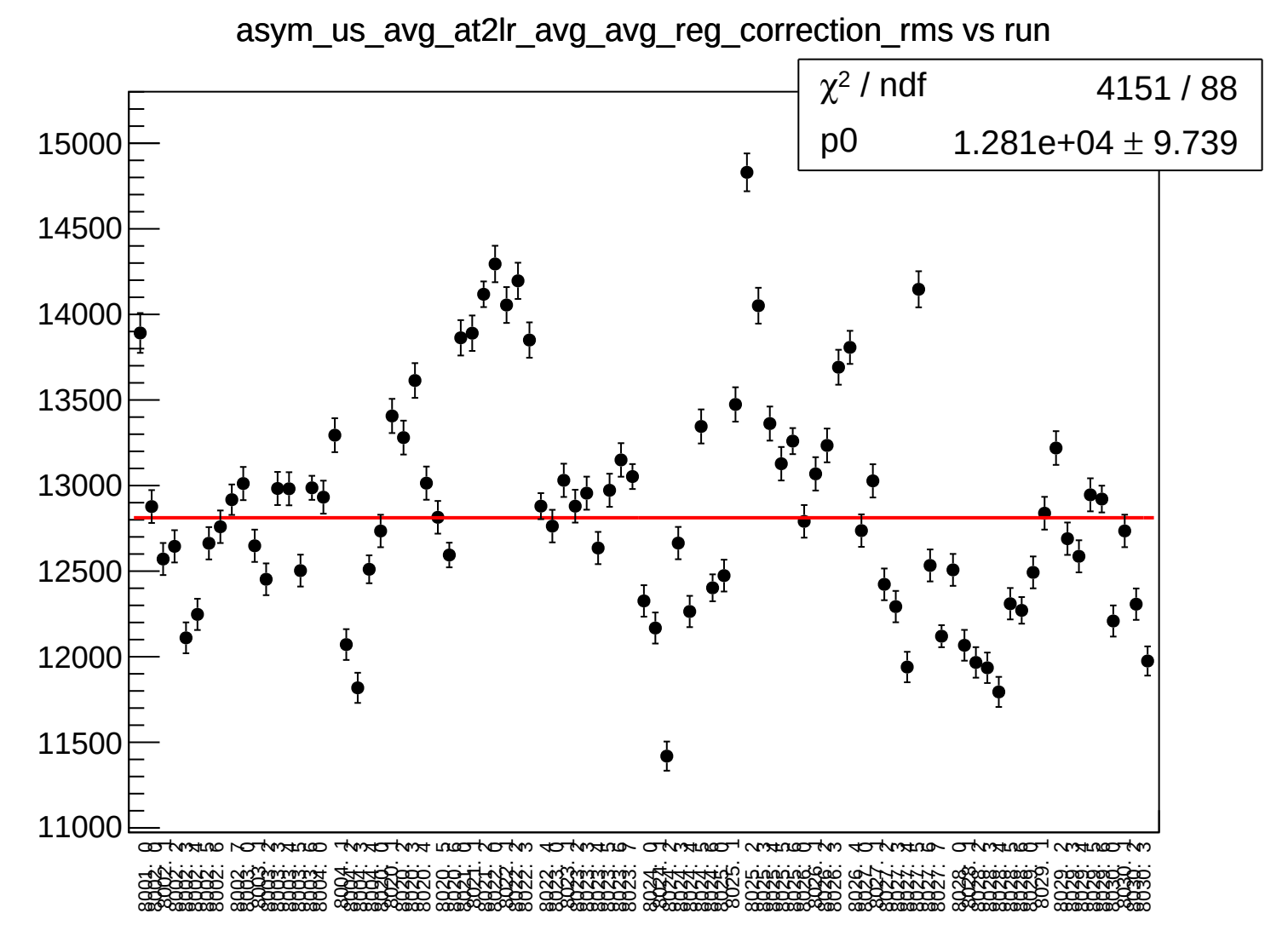

reg_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 81.07 / 88
p0 −3245 ± 2407
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean 229.3
Std Dev 0
2
1
0
−1
−2

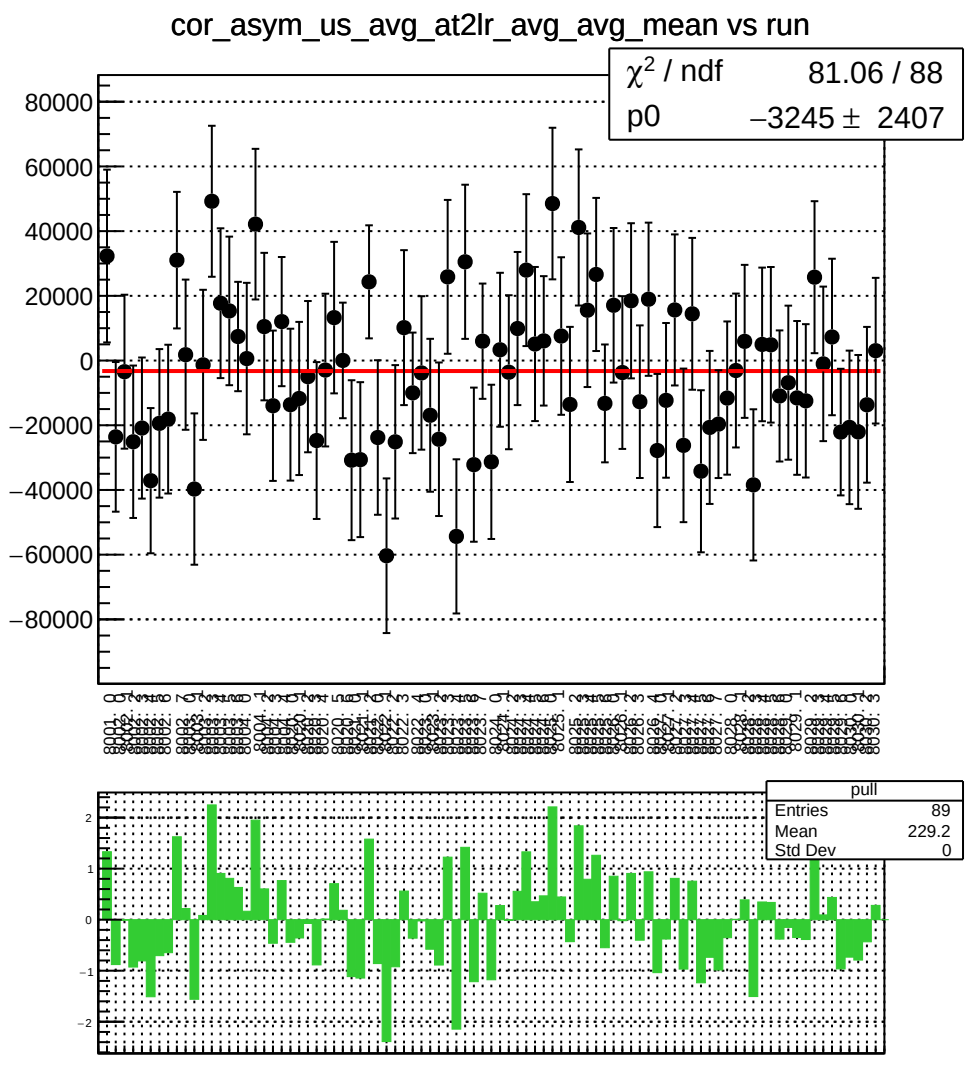

pull1D
Entries 89
Mean −0.005146
Std Dev 0.9544
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

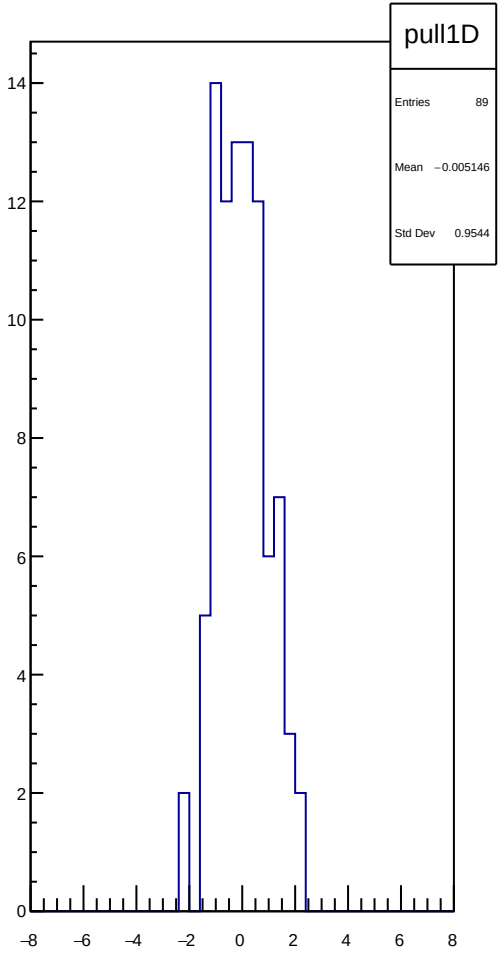

reg_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 705.3 / 88
p0 2241 ± 1.702
2400
2350
2300
2250
2200
2150
2100
2050

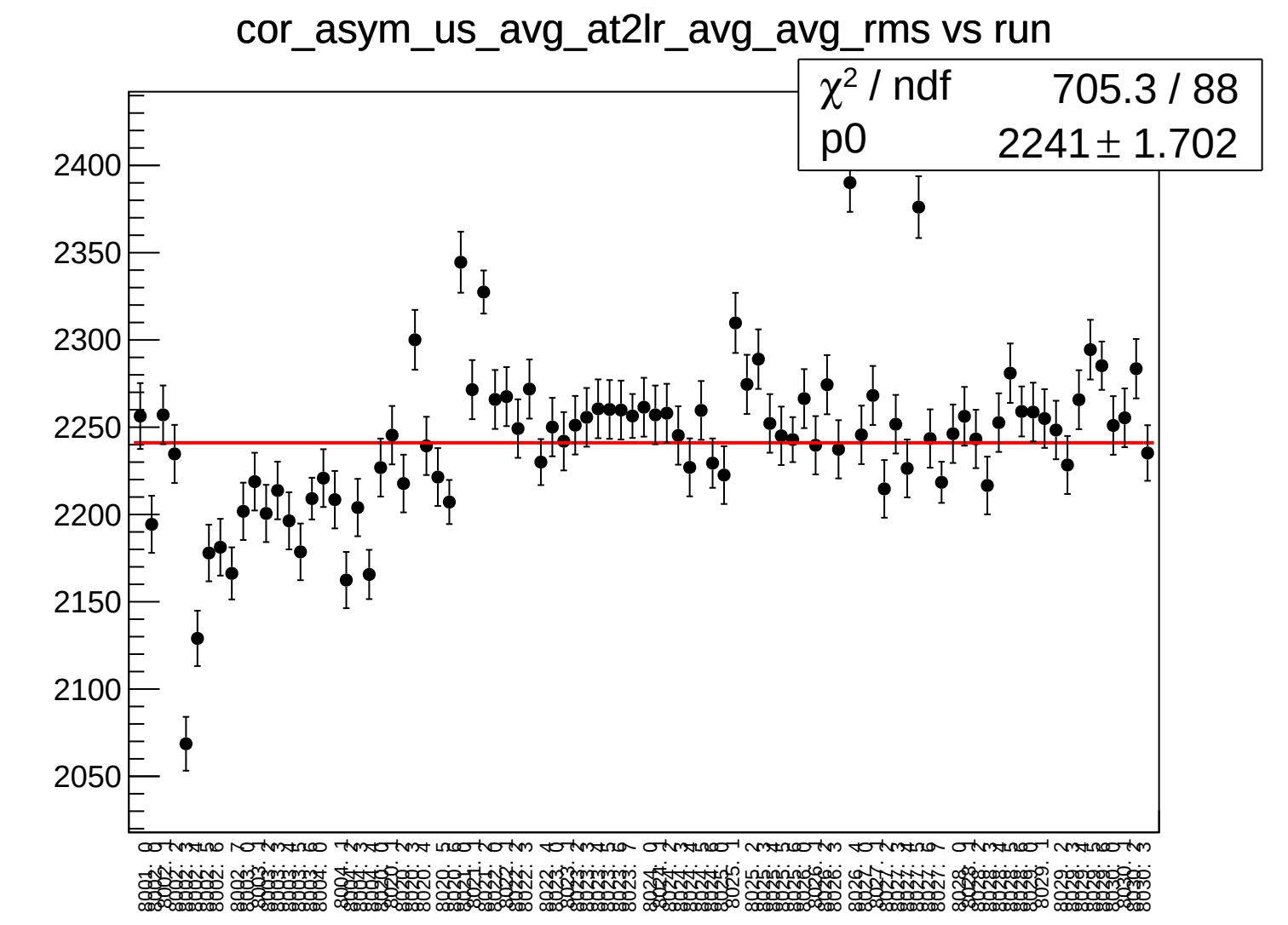

asym_us_avg_at2lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 97.26 / 88
p0 1384 ± 1.377e+04
400
200
0
−200
−400
pull
Entries 89
Mean 154.9
Std Dev 0
2
1
0
−1
−2

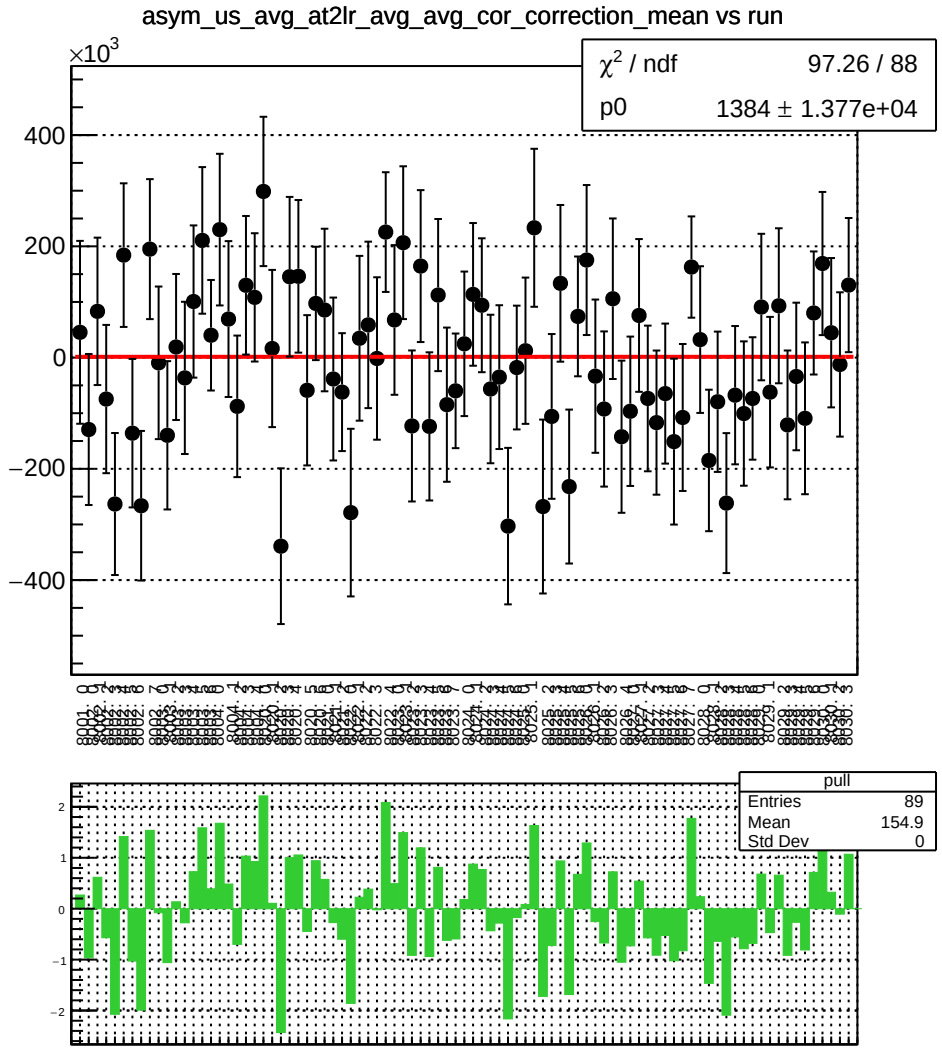

pull1D
Entries 89
Mean −0.02397
Std Dev 1.045
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

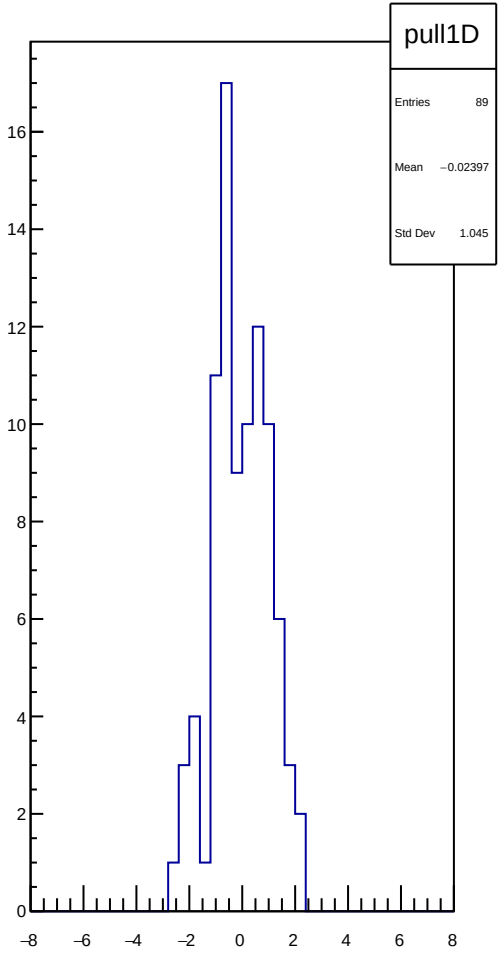

asym_us_avg_at2lr_avg_avg_reg_correction_rms vs run
χ² / ndf 4151 / 88
p0 1.281e+04 ± 9.739
15000
14500
14000
13500
13000
12500
12000
11500
11000

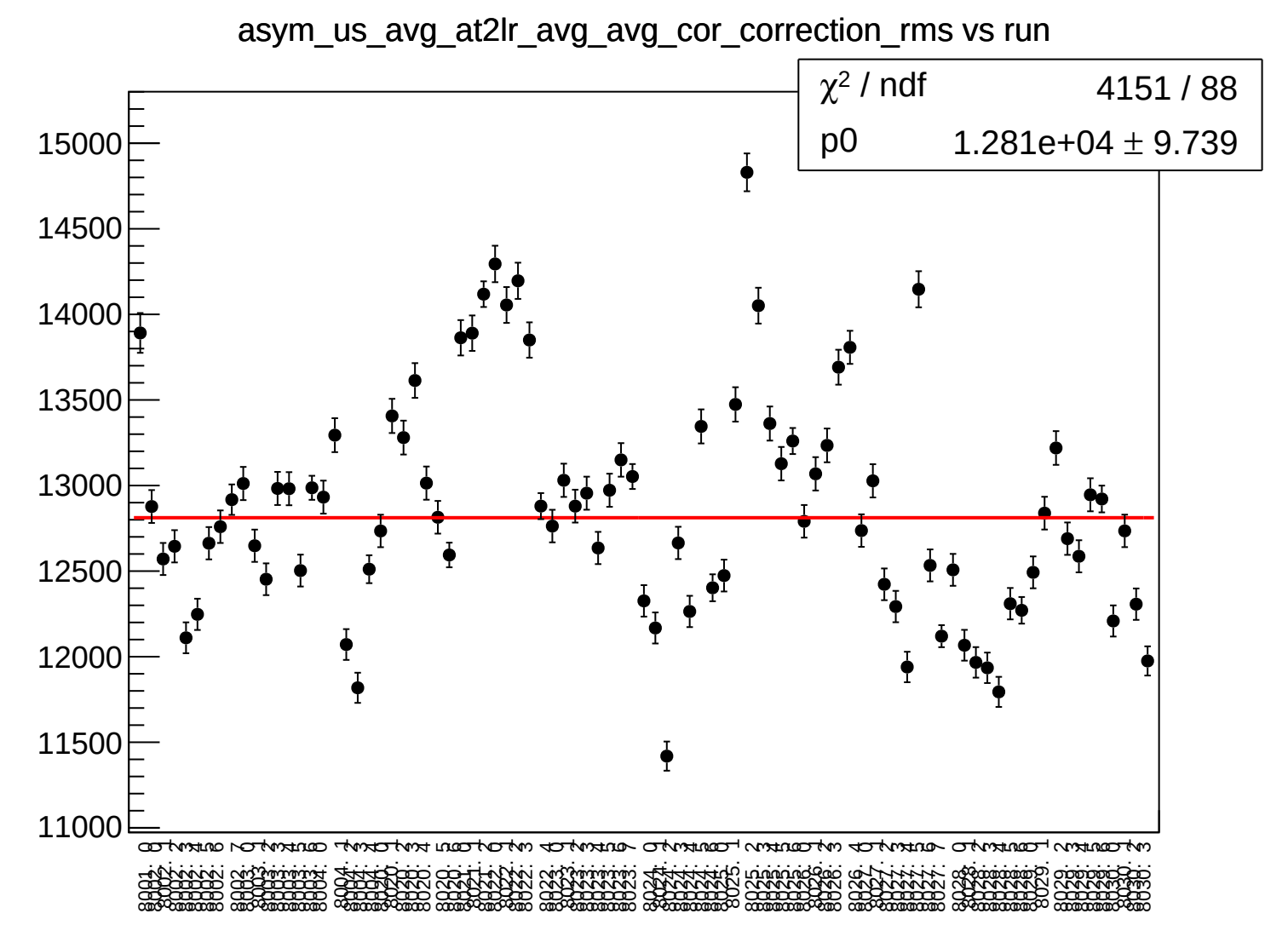

cor_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 81.06 / 88
p0 −3245 ± 2407
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean 229.2
Std Dev 0
2
1
0
−1
−2

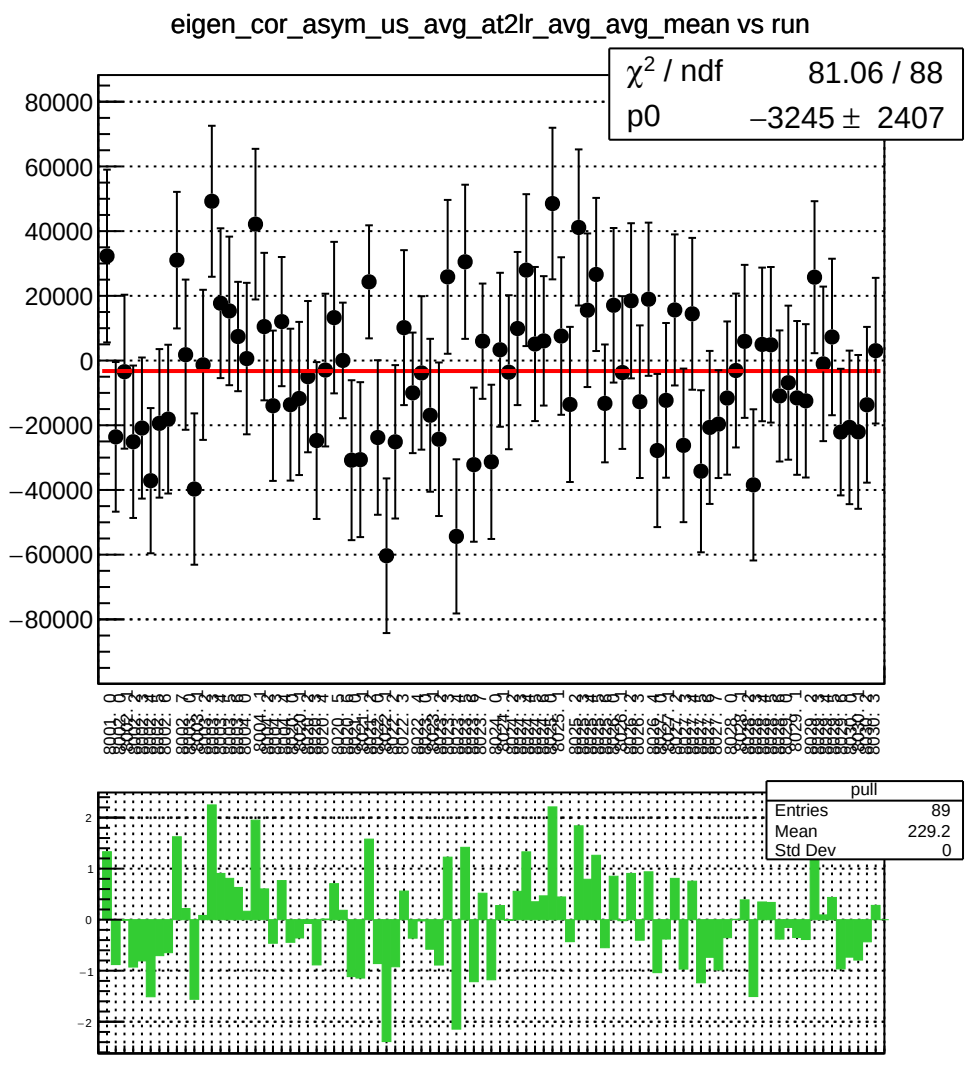

pull1D
Entries 89
Mean −0.005146
Std Dev 0.9544
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

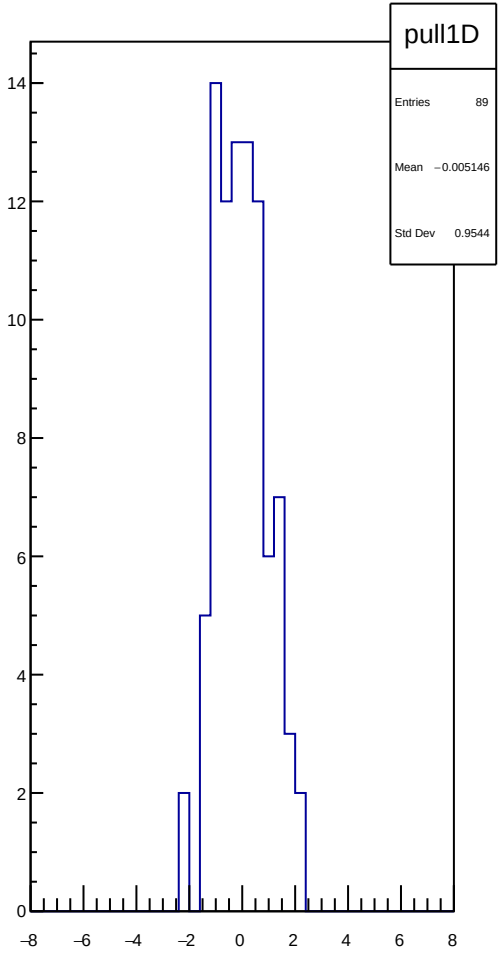

cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ^2 / ndf 705.3 / 88
p0 2241 ± 1.702
2400
2350
2300
2250
2200
2150
2100
2050

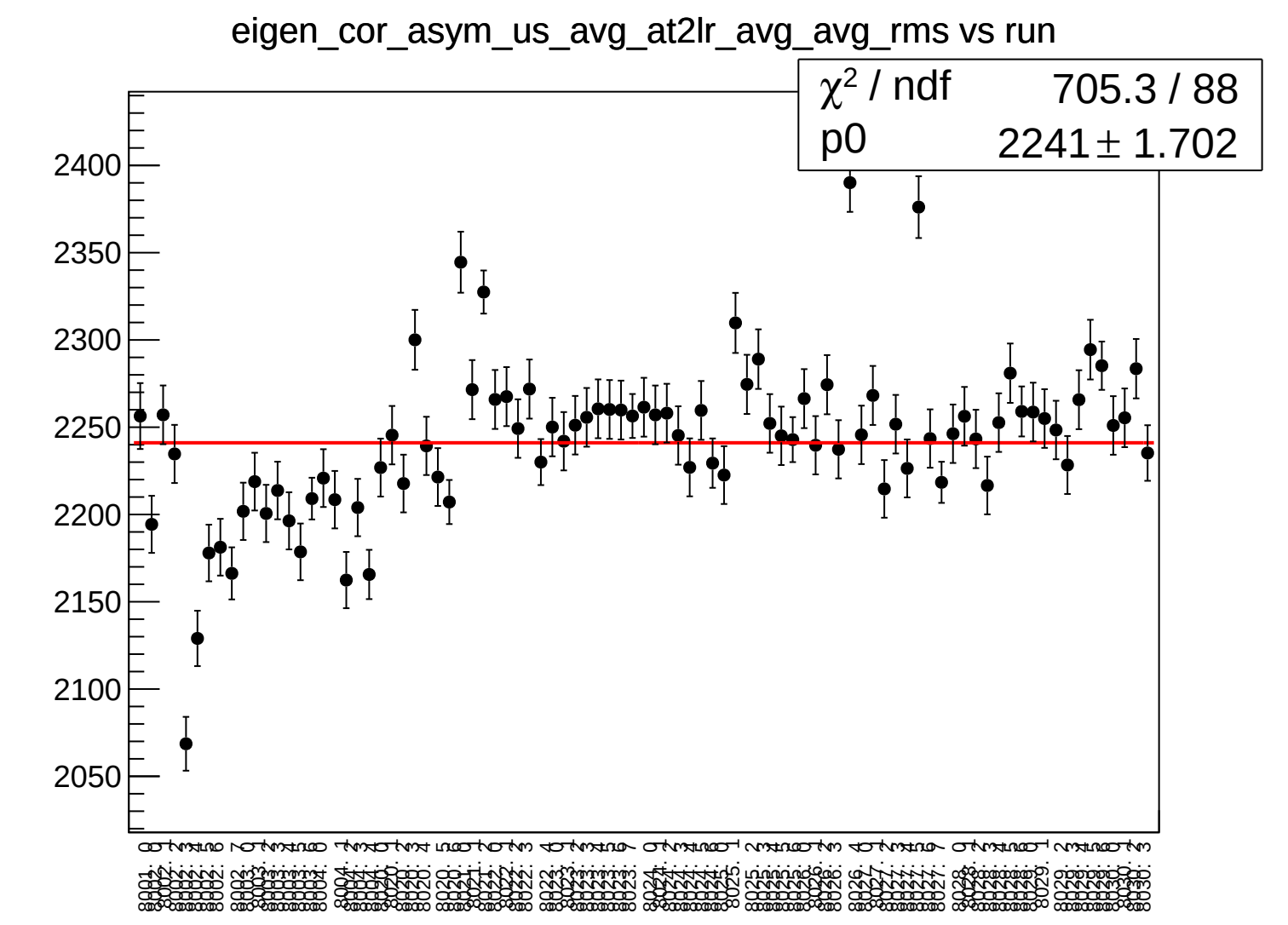

asym_us_avg_at2lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 97.26 / 88
p0 1384 ± 1.377e+04
400
200
0
−200
−400
pull
Entries 89
Mean 154.9
Std Dev 0
2
1
0
−1
−2

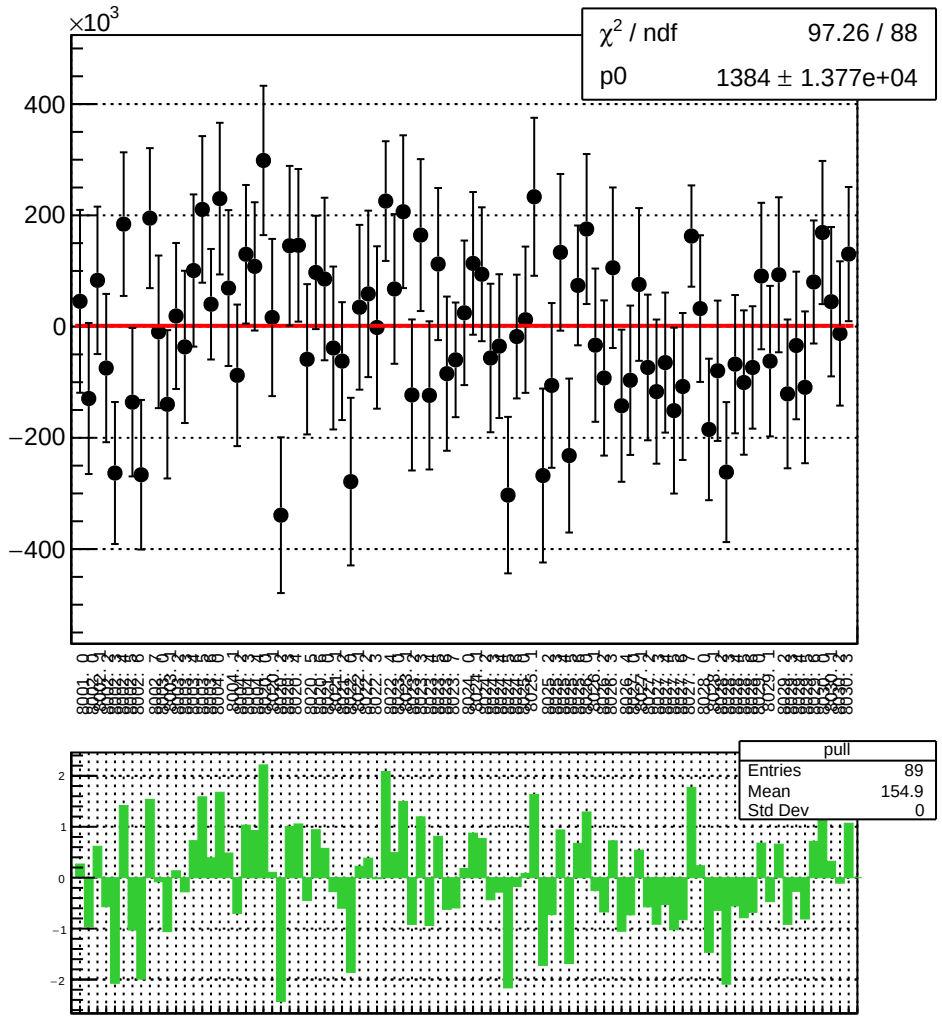

pull1D
Entries 89
Mean −0.02397
Std Dev 1.045
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

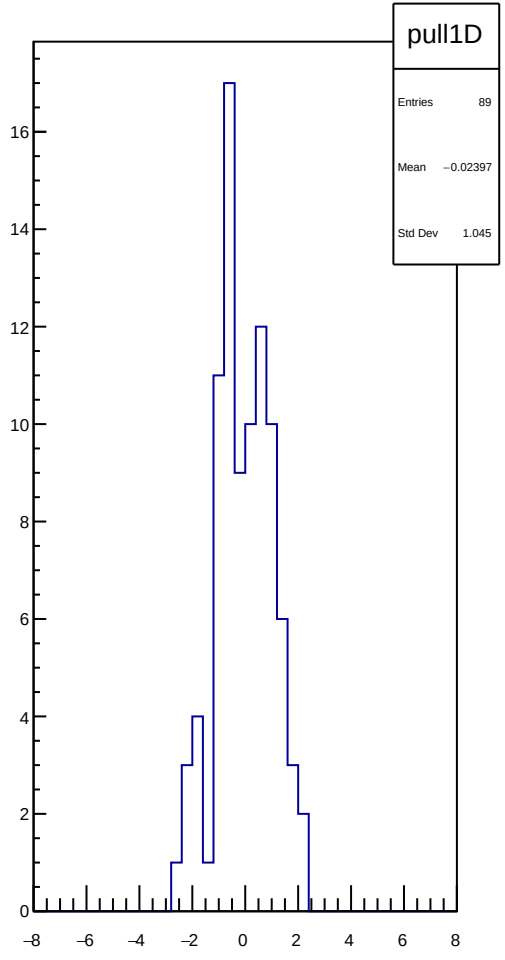

asym_us_avg_at2lr_avg_avg_cor_correction_rms vs run
χ² / ndf 4151 / 88
p0 1.281e+04 ± 9.739
15000
14500
14000
13500
13000
12500
12000
11500
11000

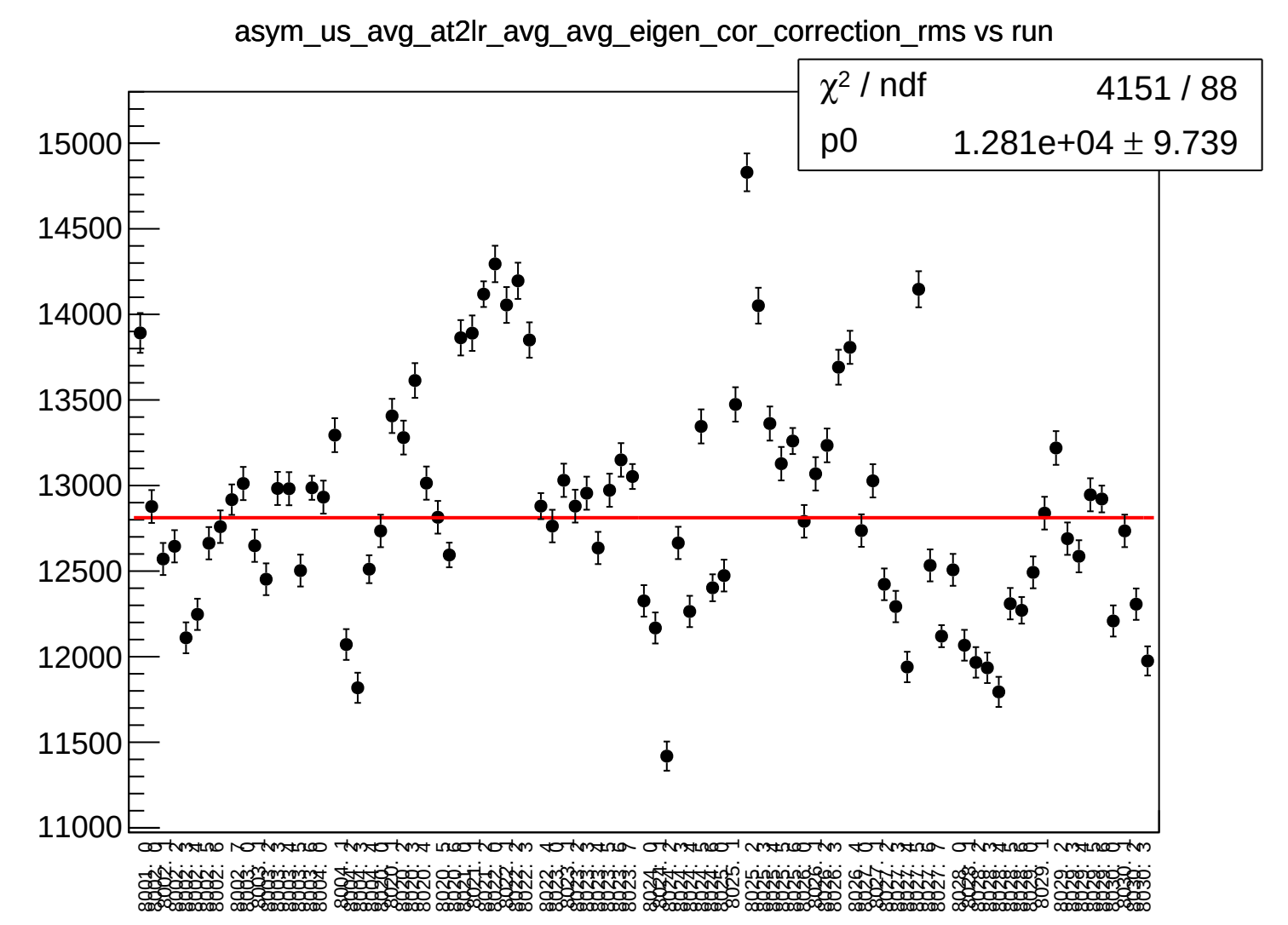

eigen_cor_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 81.06 / 88
p0 −3245 ± 2407
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean 229.2
Std Dev 0
2
1
0
−1
−2

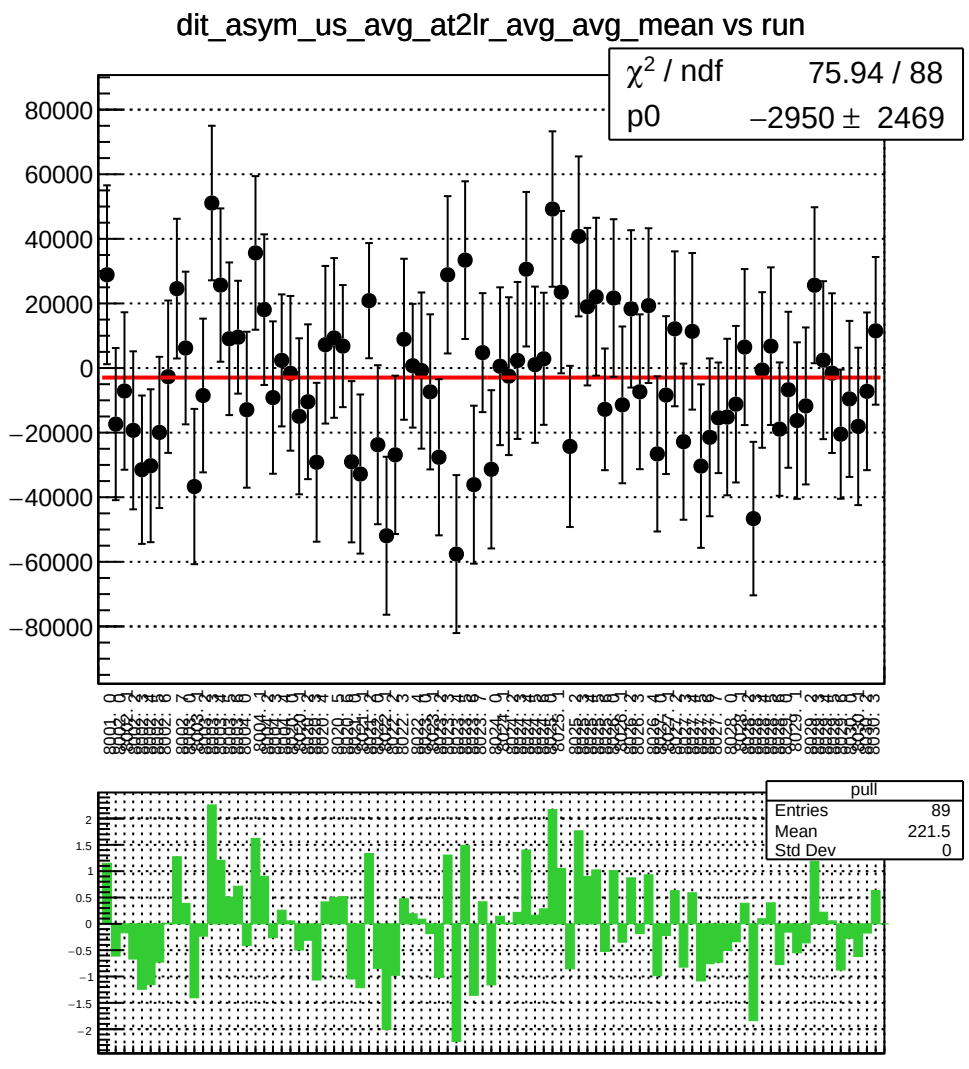

pull1D
Entries 89
Mean −0.005146
Std Dev 0.9544
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

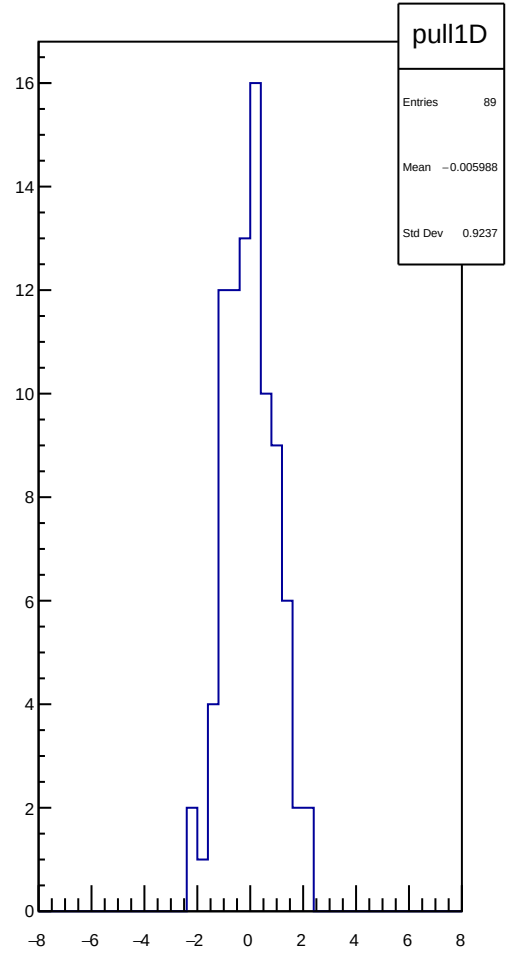

eigen_cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 705.3 / 88
p0 2241 ± 1.702
2400
2350
2300
2250
2200
2150
2100
2050

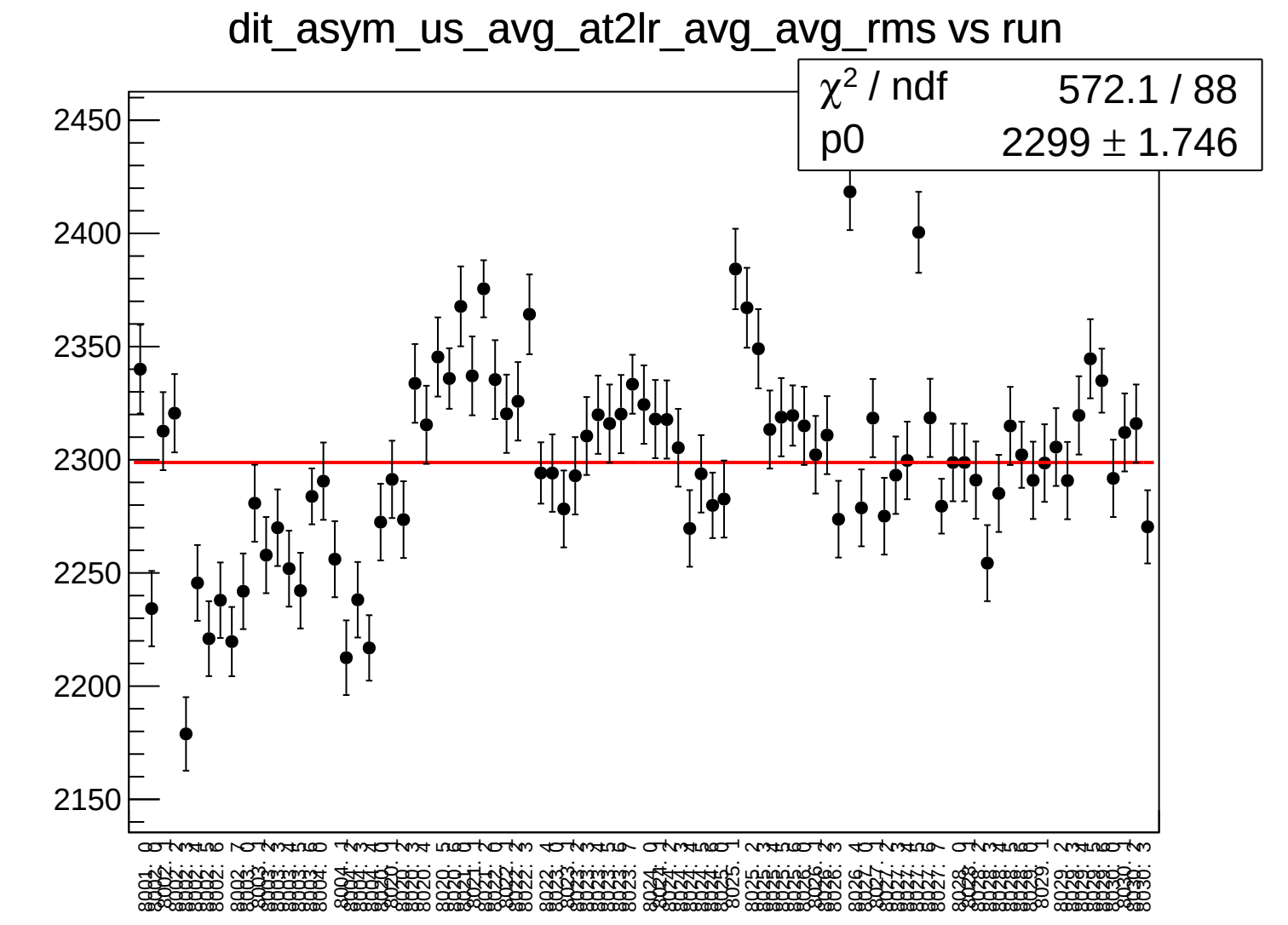

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 97.26 / 88
p0 1384 ± 1.377e+04
400
200
0
−200
−400
pull
Entries 89
Mean 154.9
Std Dev 0
2
1
0
−1
−2

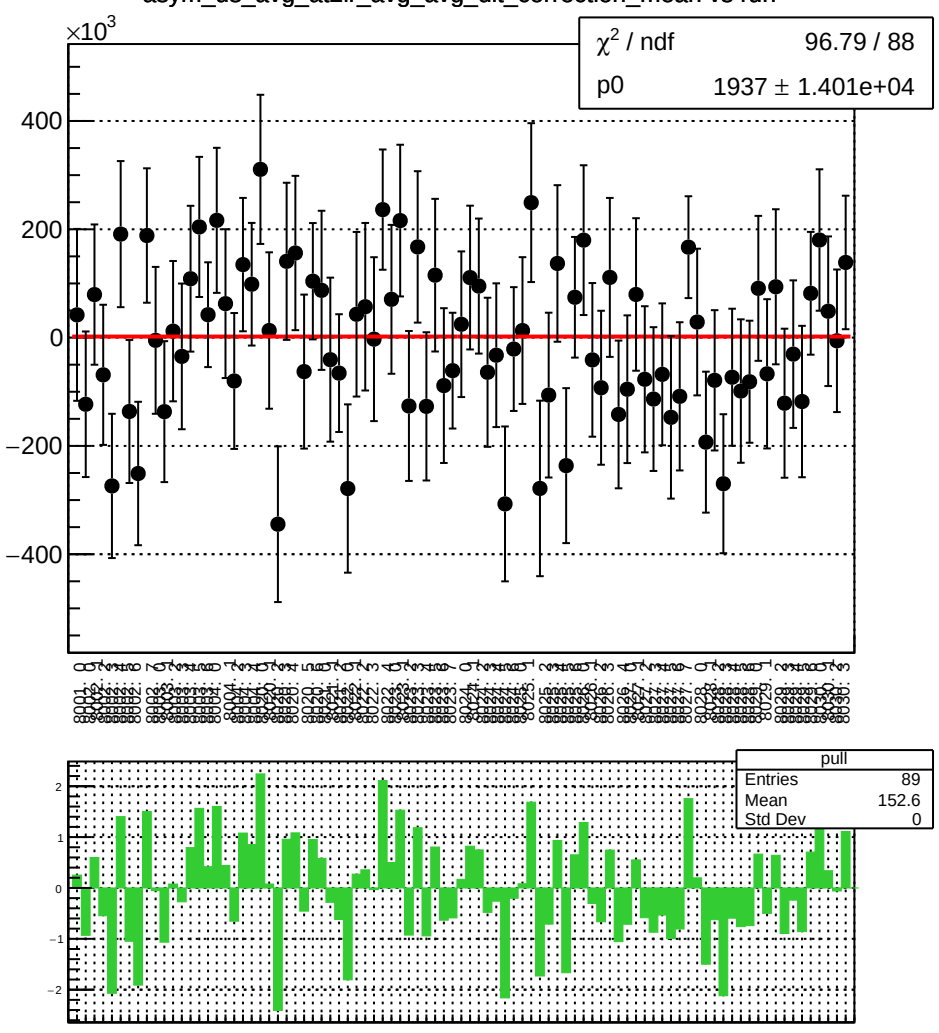

pull1D
Entries 89
Mean −0.02397
Std Dev 1.045
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

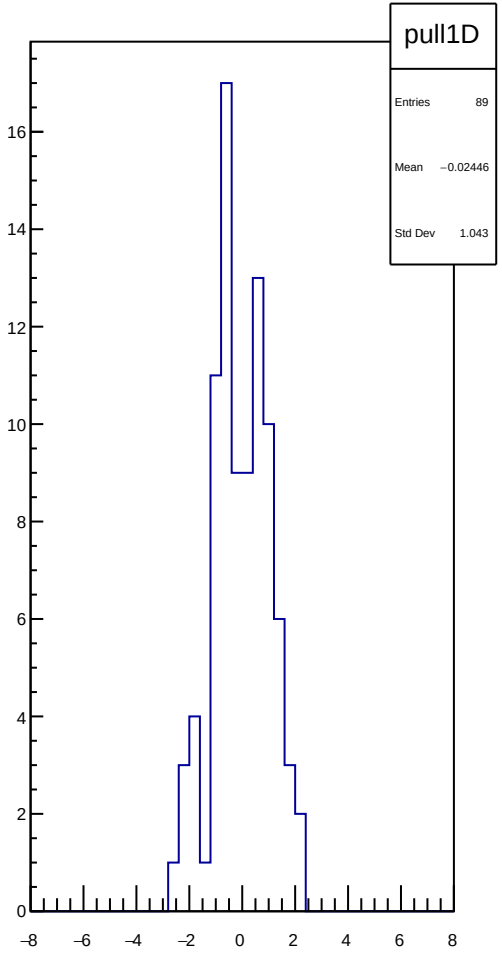

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 4151 / 88
p0 1.281e+04 ± 9.739
15000
14500
14000
13500
13000
12500
12000
11500
11000

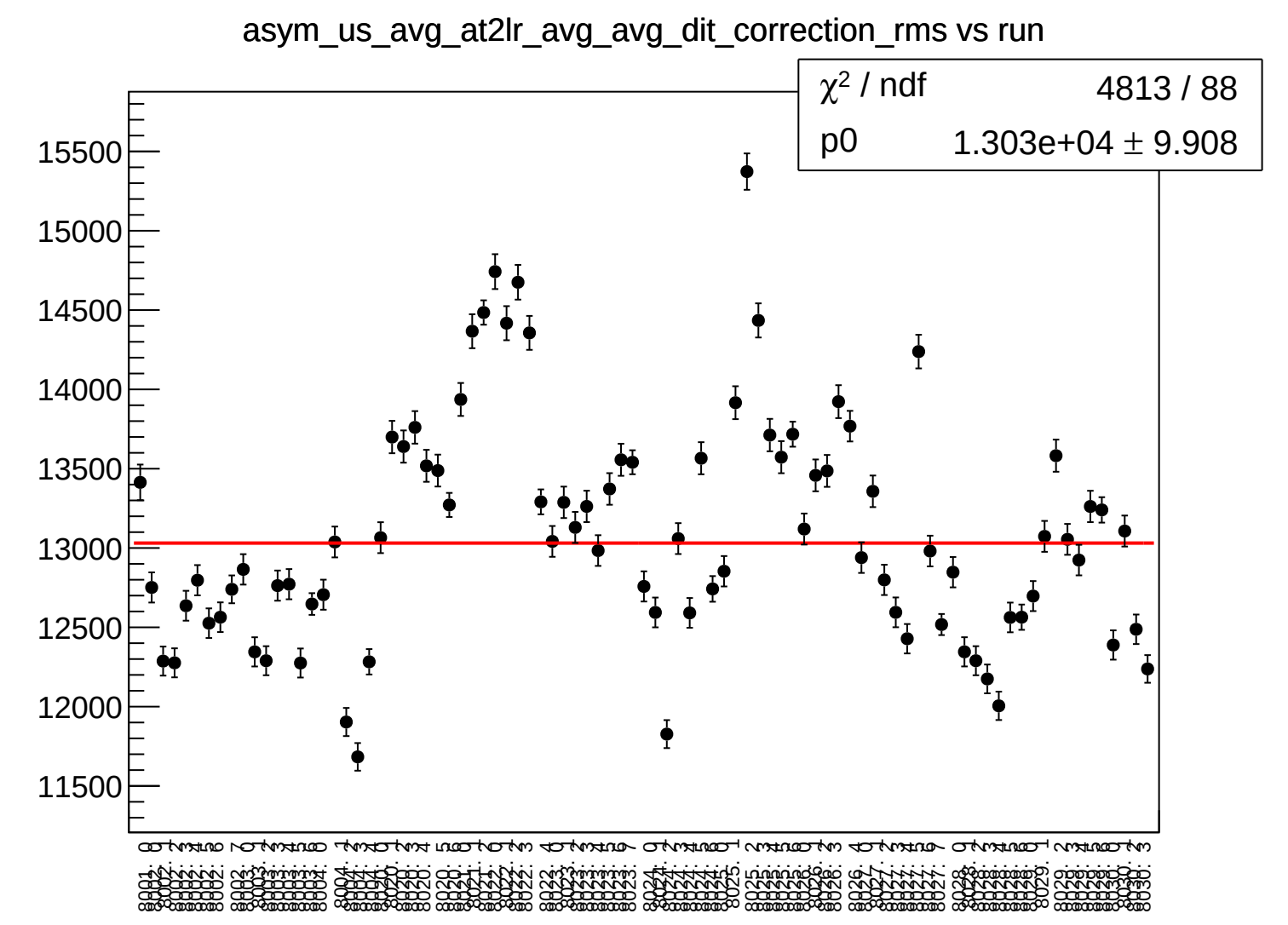

dit_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 75.94 / 88
p0 −2950 ± 2469
pull
Entries 89
Mean 221.5
Std Dev 0

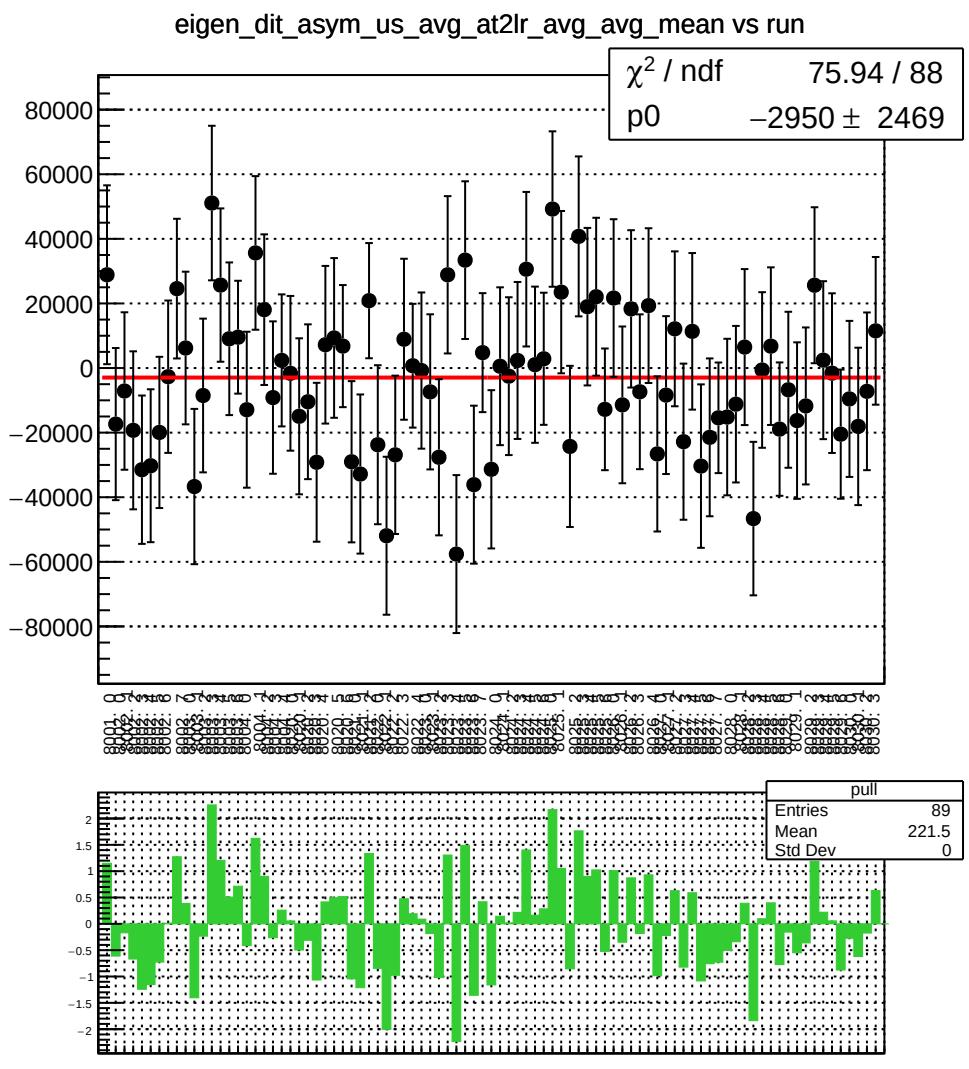

pull1D
Entries 89
Mean −0.005988
Std Dev 0.9237

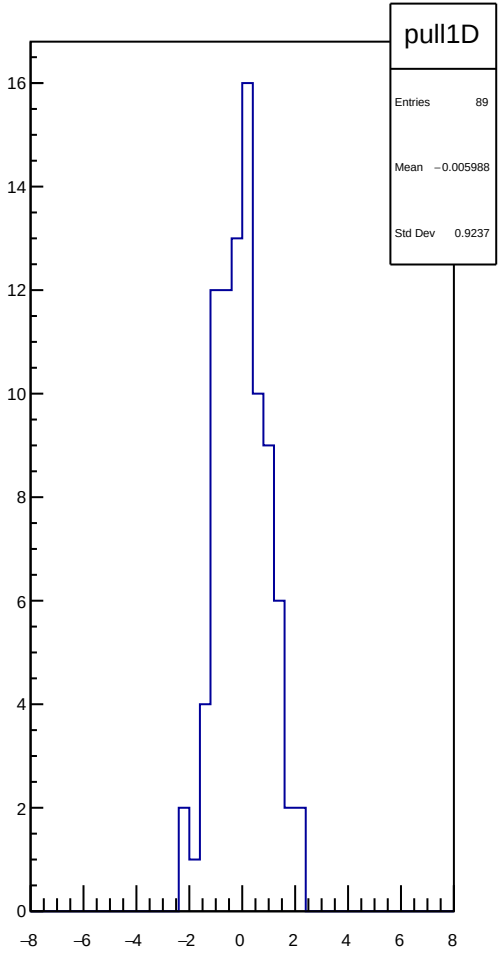

dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 572.1 / 88
p0 2299 ± 1.746
2450
2400
2350
2300
2250
2200
2150

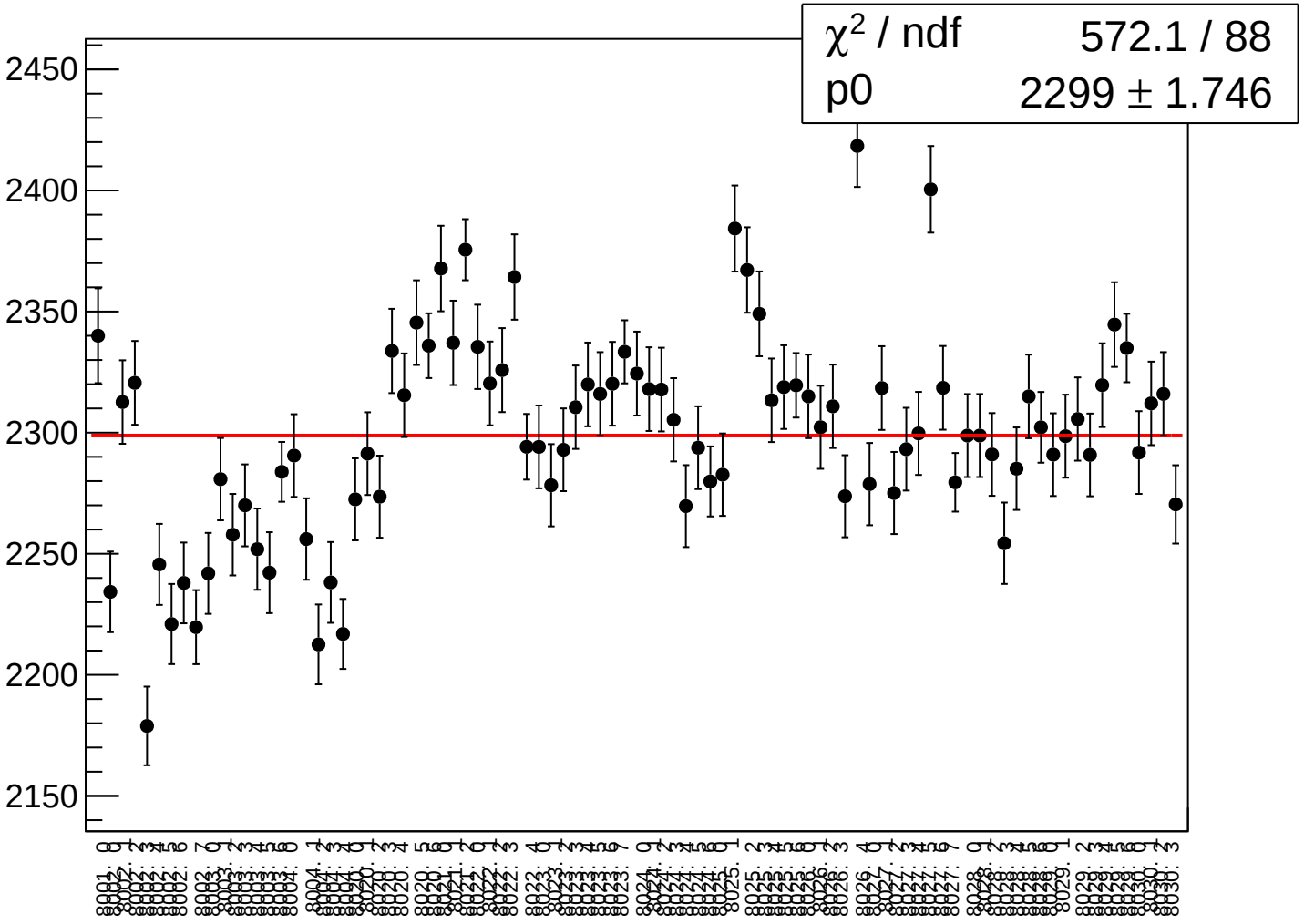

asym_us_avg_at2lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 96.79 / 88
p0 1937 ± 1.401e+04
400
200
0
−200
−400
pull
Entries 89
Mean 152.6
Std Dev 0
2
1
0
−1
−2

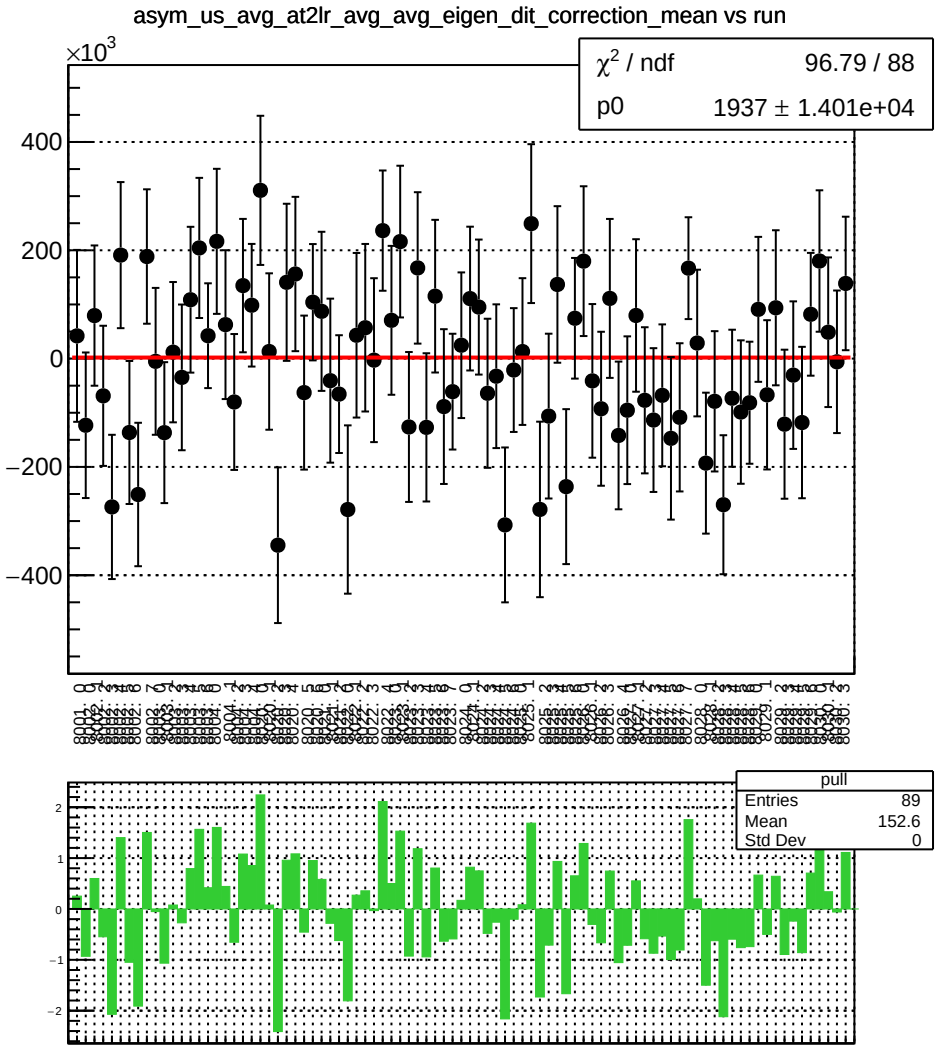

pull1D
Entries 89
Mean −0.02446
Std Dev 1.043
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

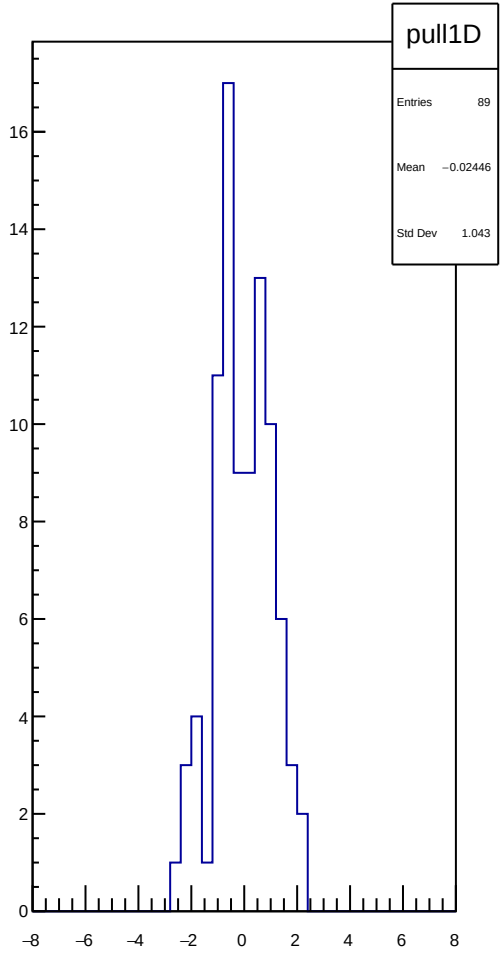

asym_us_avg_at2lr_avg_avg_dit_correction_rms vs run
χ² / ndf 4813 / 88
p0 1.303e+04 ± 9.908
15500
15000
14500
14000
13500
13000
12500
12000
11500

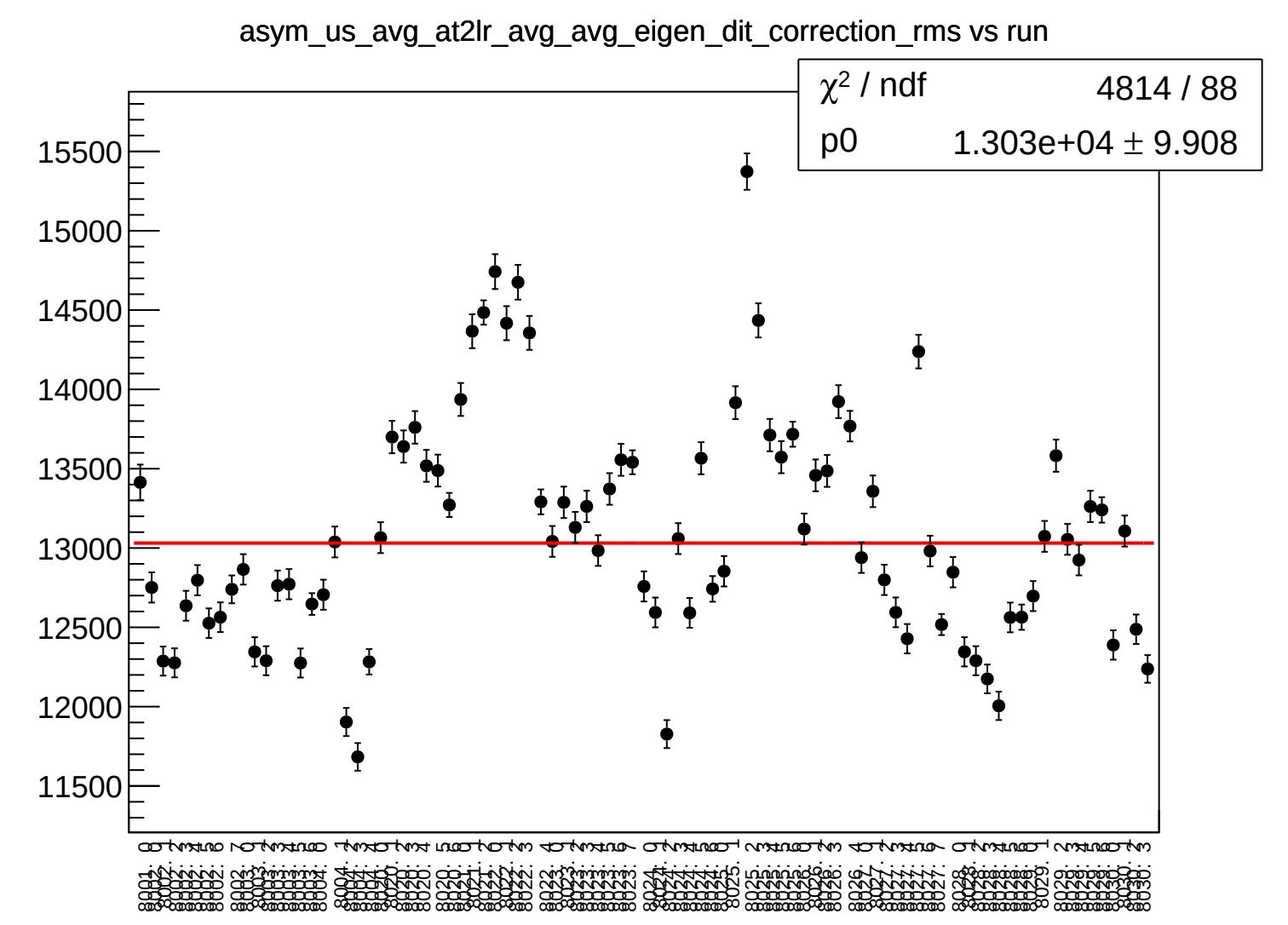

eigen_dit_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 75.94 / 88
p0 −2950 ± 2469
pull
Entries 89
Mean 221.5
Std Dev 0

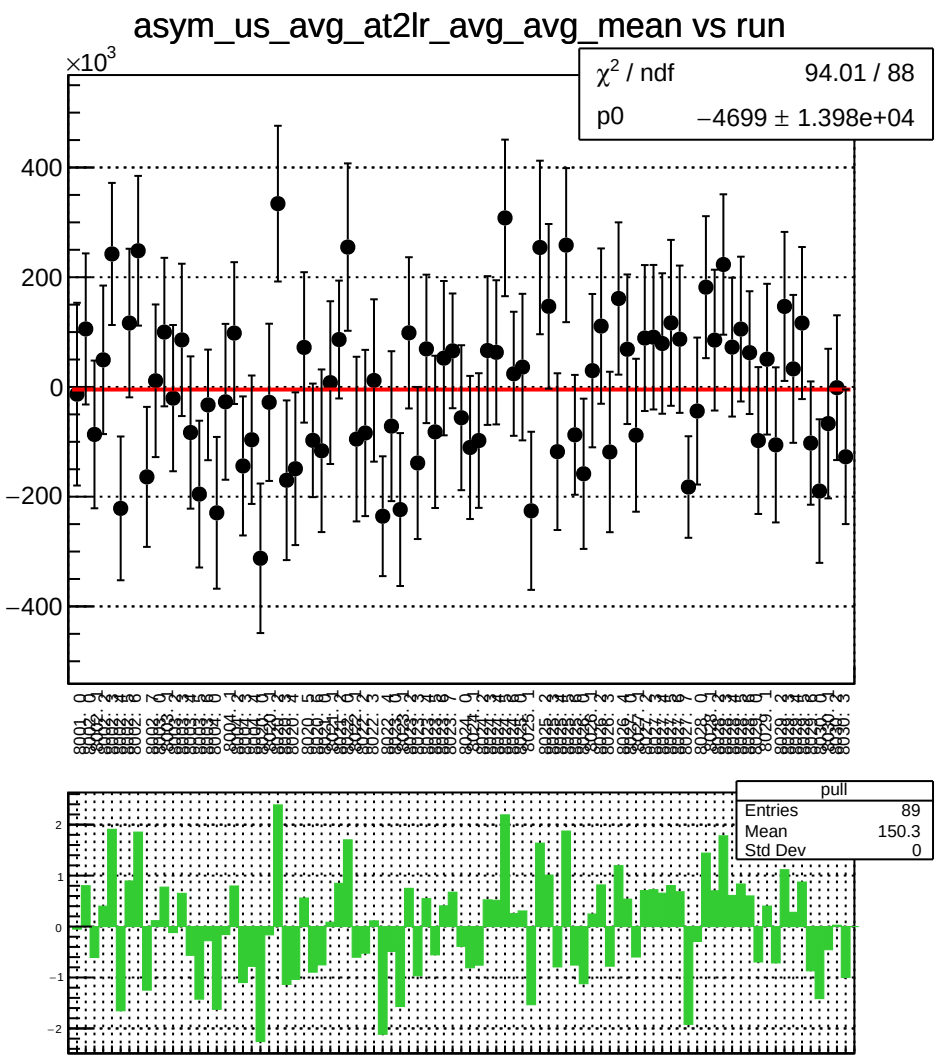

pull1D
Entries 89
Mean −0.005988
Std Dev 0.9237

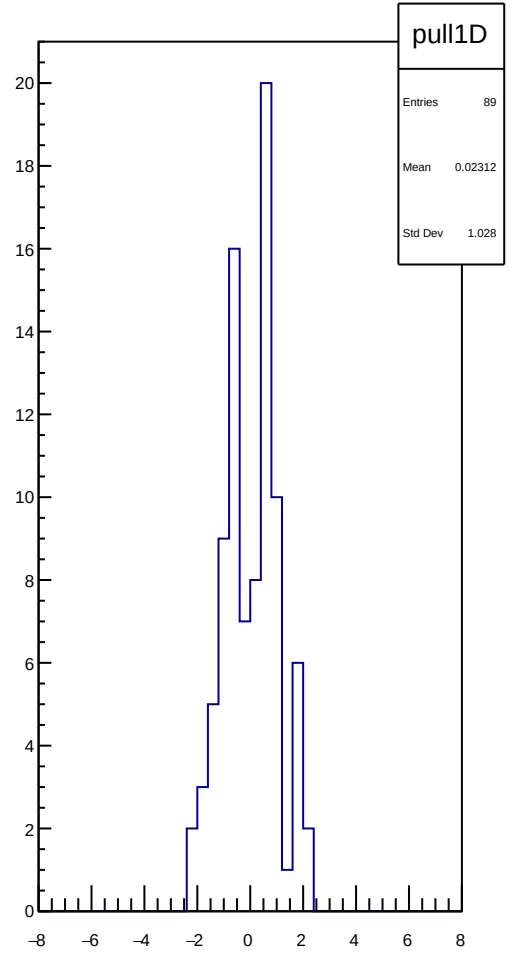

eigen_dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ^2 / ndf 572.1 / 88
p0 2299 ± 1.746
2450
2400
2350
2300
2250
2200
2150

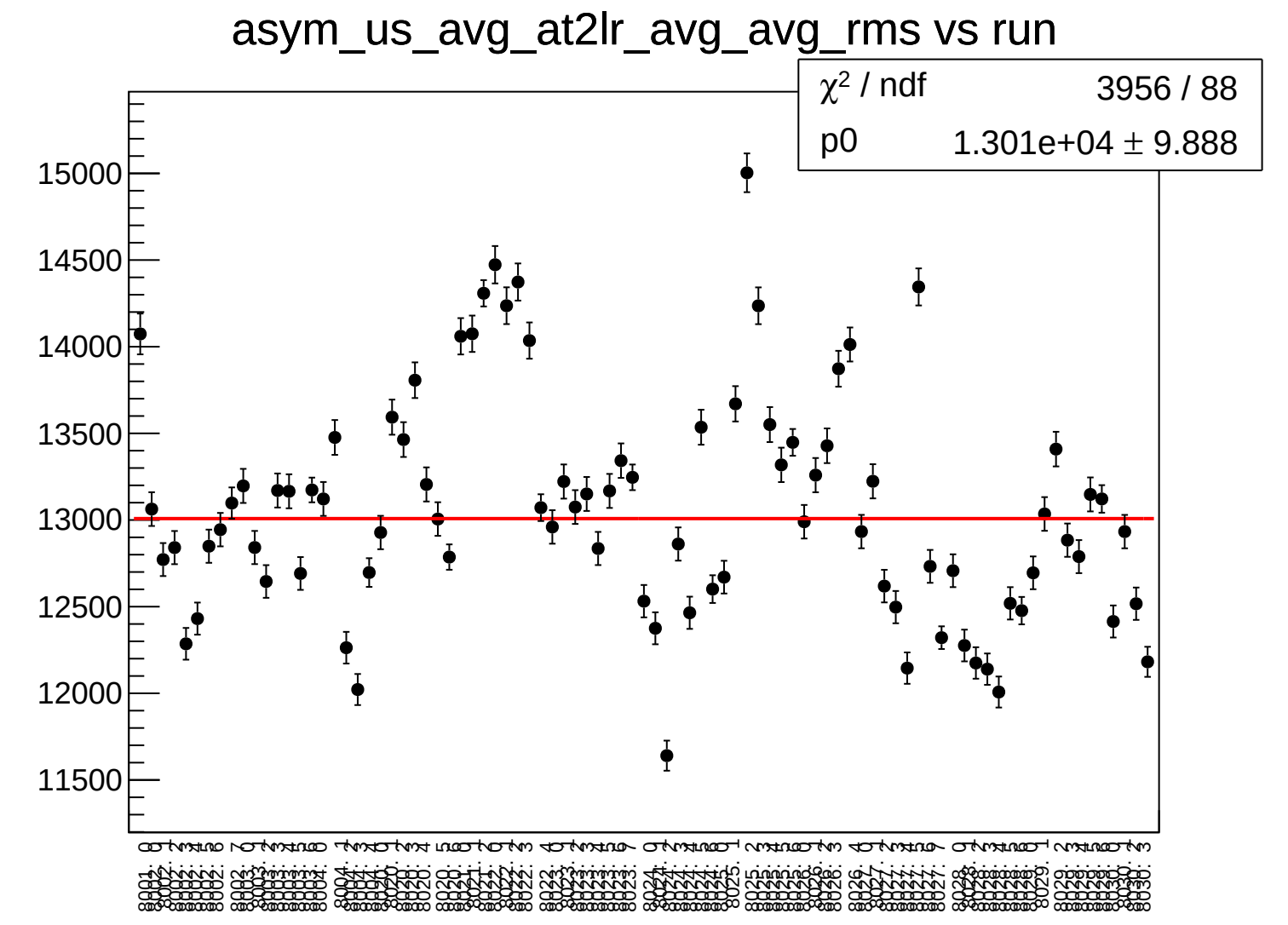

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 96.79 / 88
p0 1937 ± 1.401e+04
400
200
0
−200
−400
pull
Entries 89
Mean 152.6
Std Dev 0
2
1
0
−1
−2

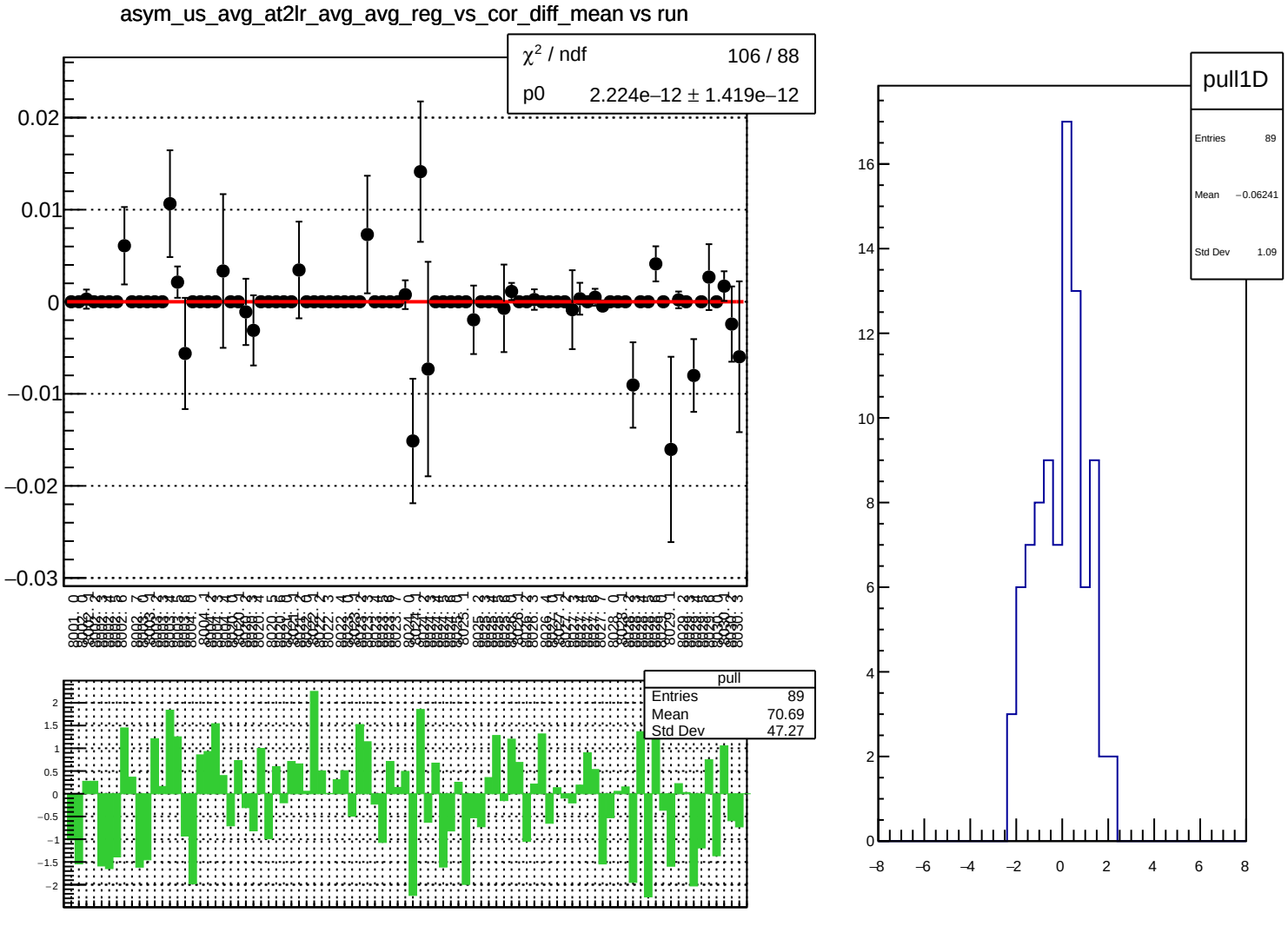

pull1D
Entries 89
Mean −0.02446
Std Dev 1.043
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

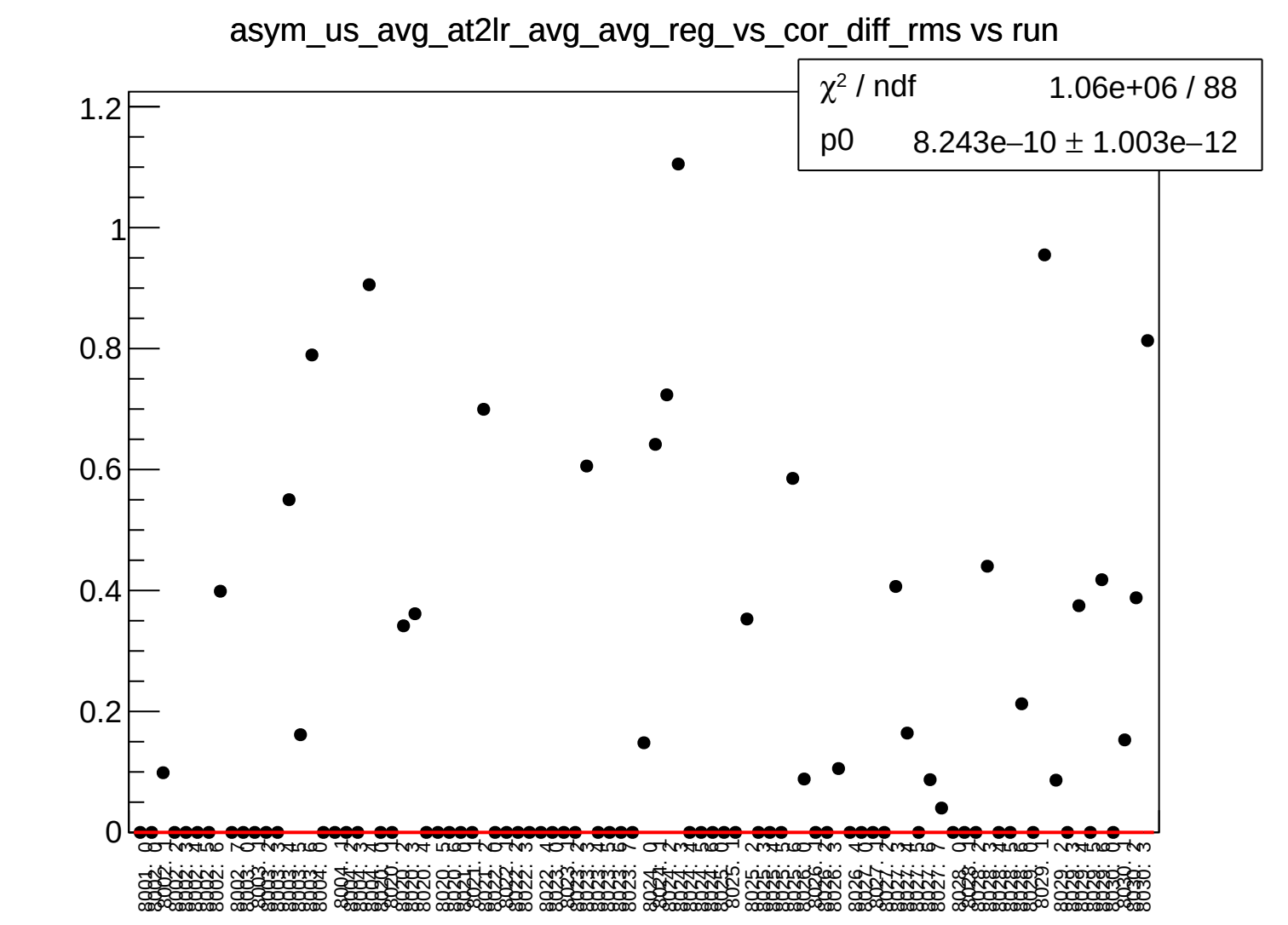

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 4814 / 88
p0 1.303e+04 ± 9.908
15500
15000
14500
14000
13500
13000
12500
12000
11500

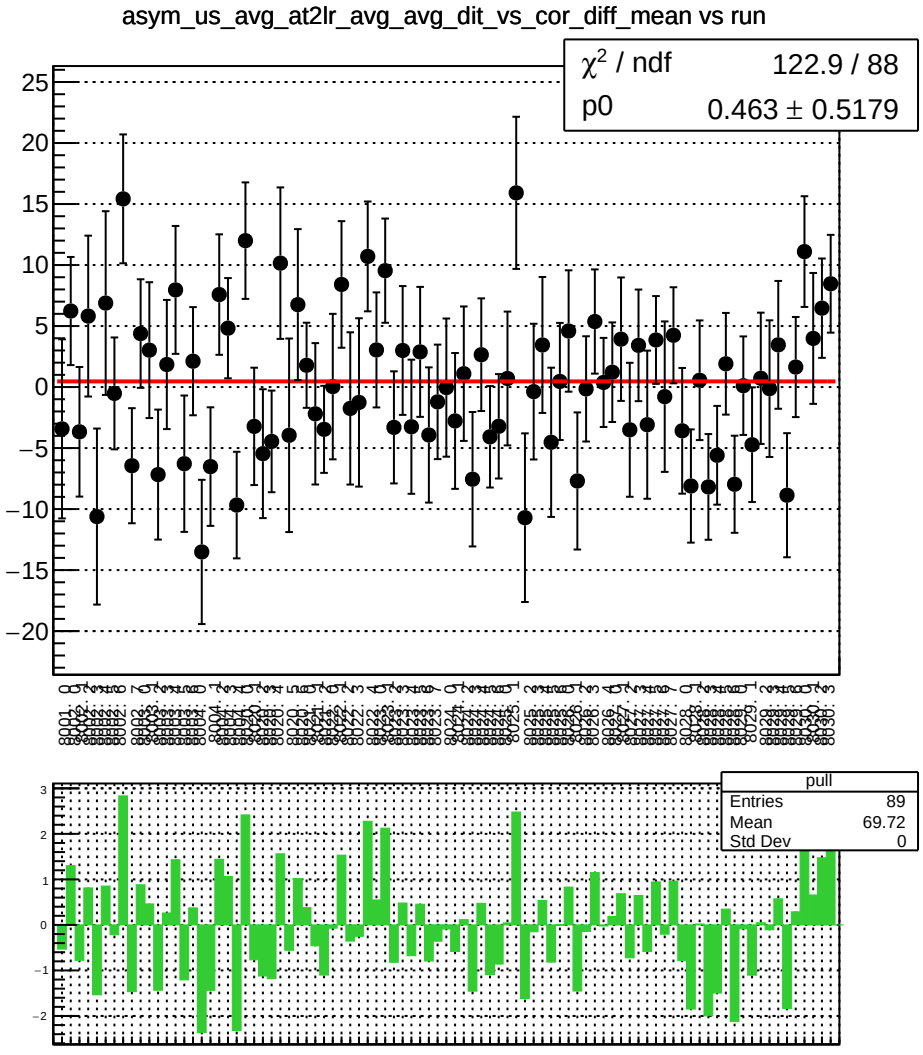

asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 94.01 / 88
p0 −4699 ± 1.398e+04
400
200
0
−200
−400
pull
Entries 89
Mean 150.3
Std Dev 0
2
1
0
−1
−2

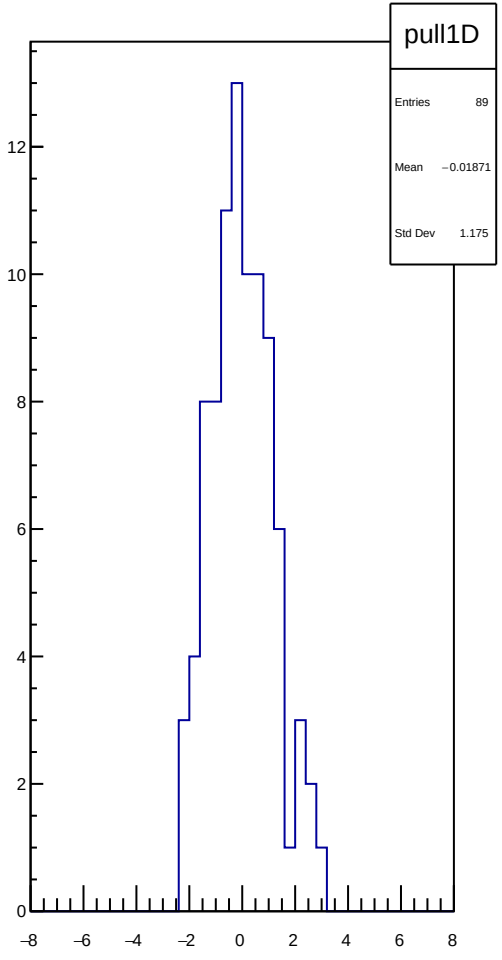

pull1D
Entries 89
Mean 0.02312
Std Dev 1.028
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

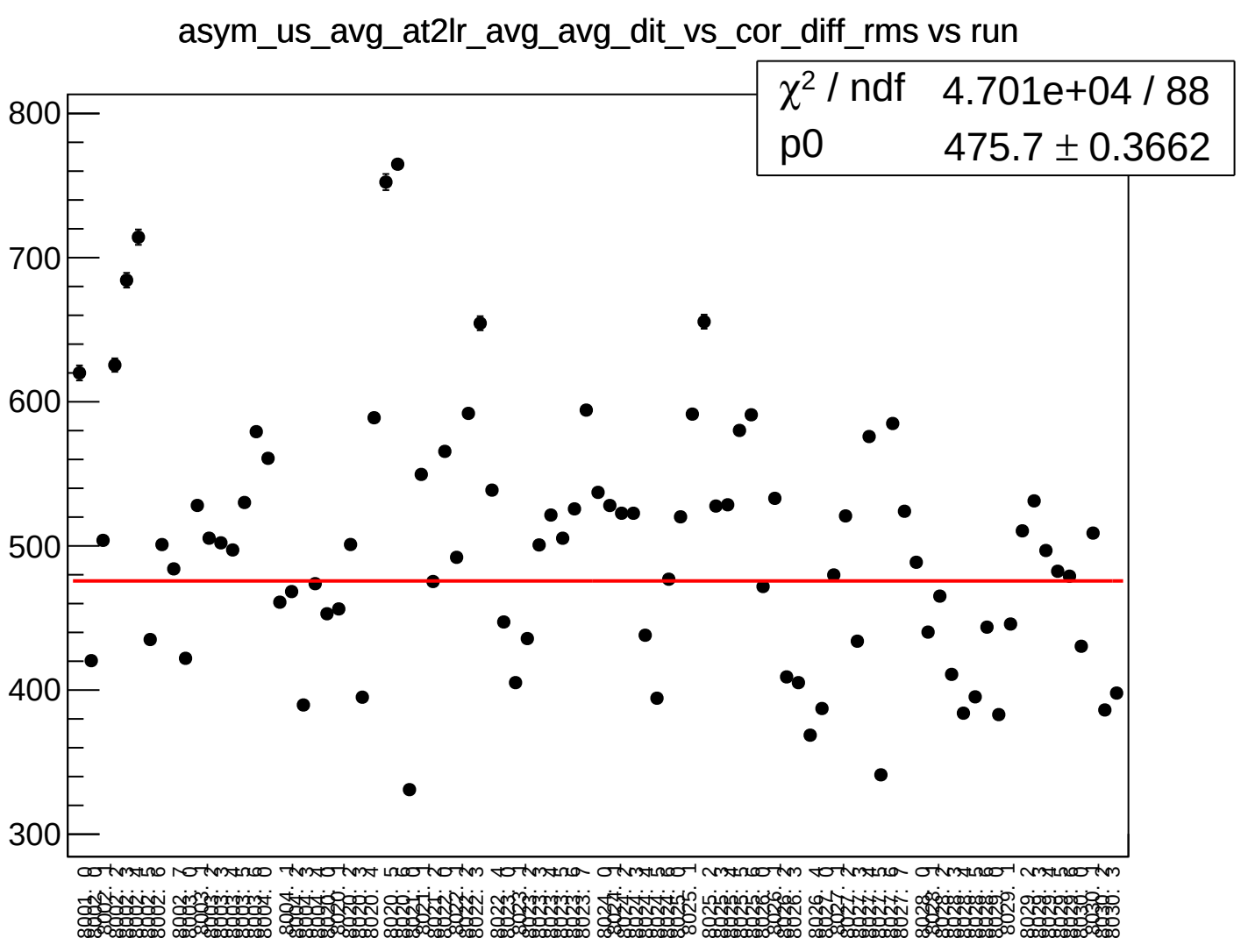

asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 3956 / 88
p0 1.301e+04 ± 9.888
15000
14500
14000
13500
13000
12500
12000
11500

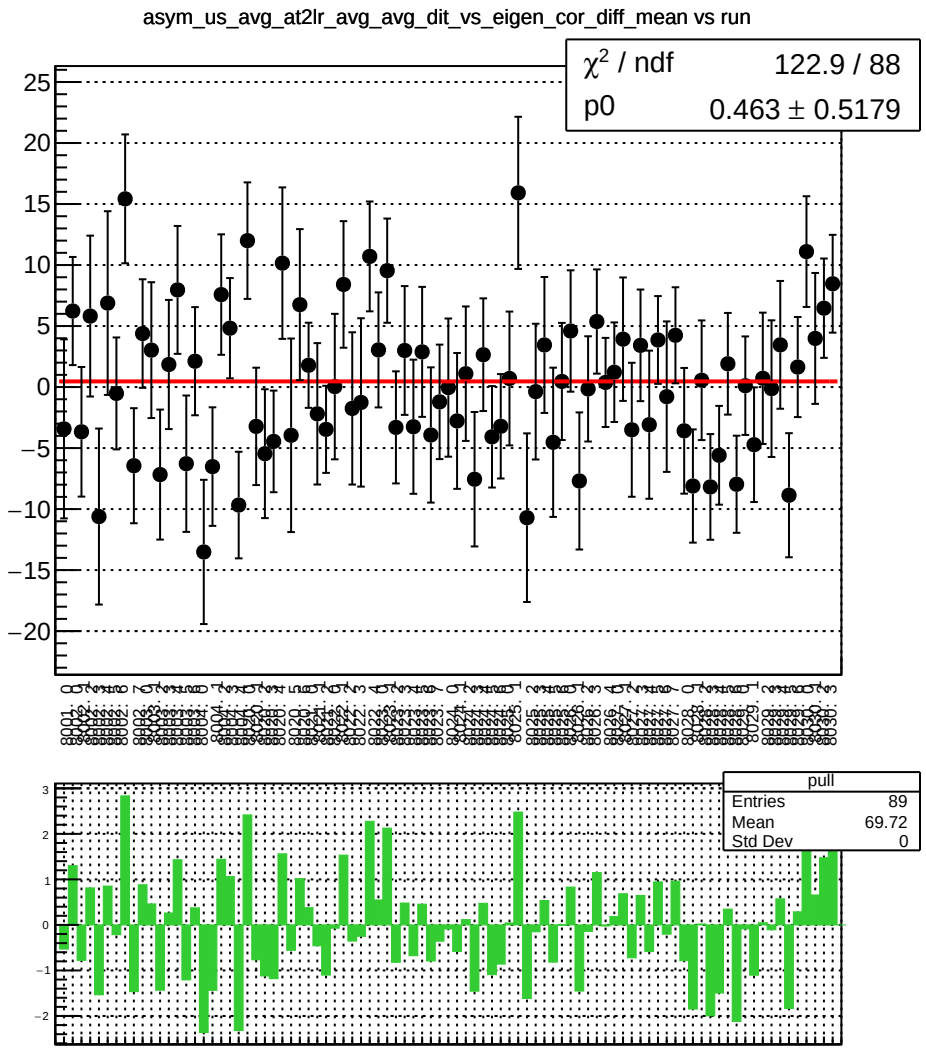

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 106 / 88
p0 2.224e−12 ± 1.419e−12
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 89
Mean 70.69
Std Dev 47.27
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean −0.06241
Std Dev 1.09
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

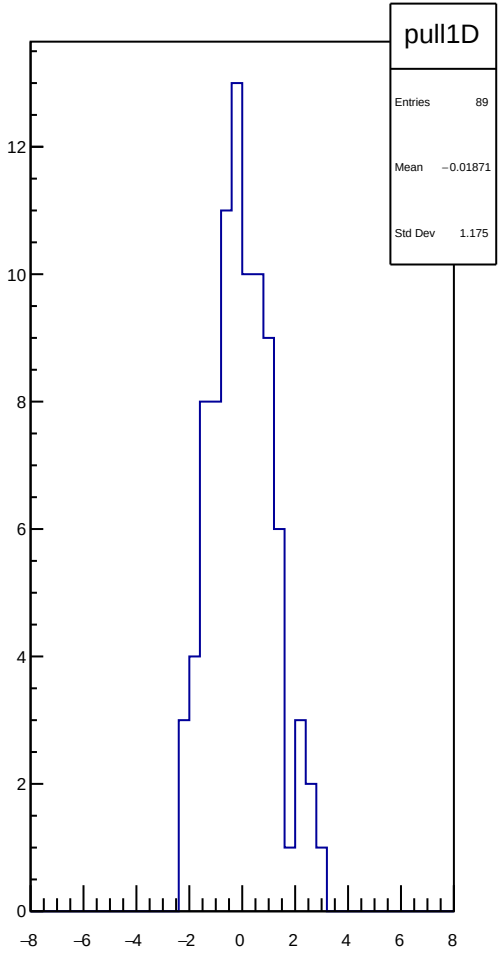

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.06e+06 / 88
p0 8.243e−10 ± 1.003e−12
1.2
1
0.8
0.6
0.4
0.2
0

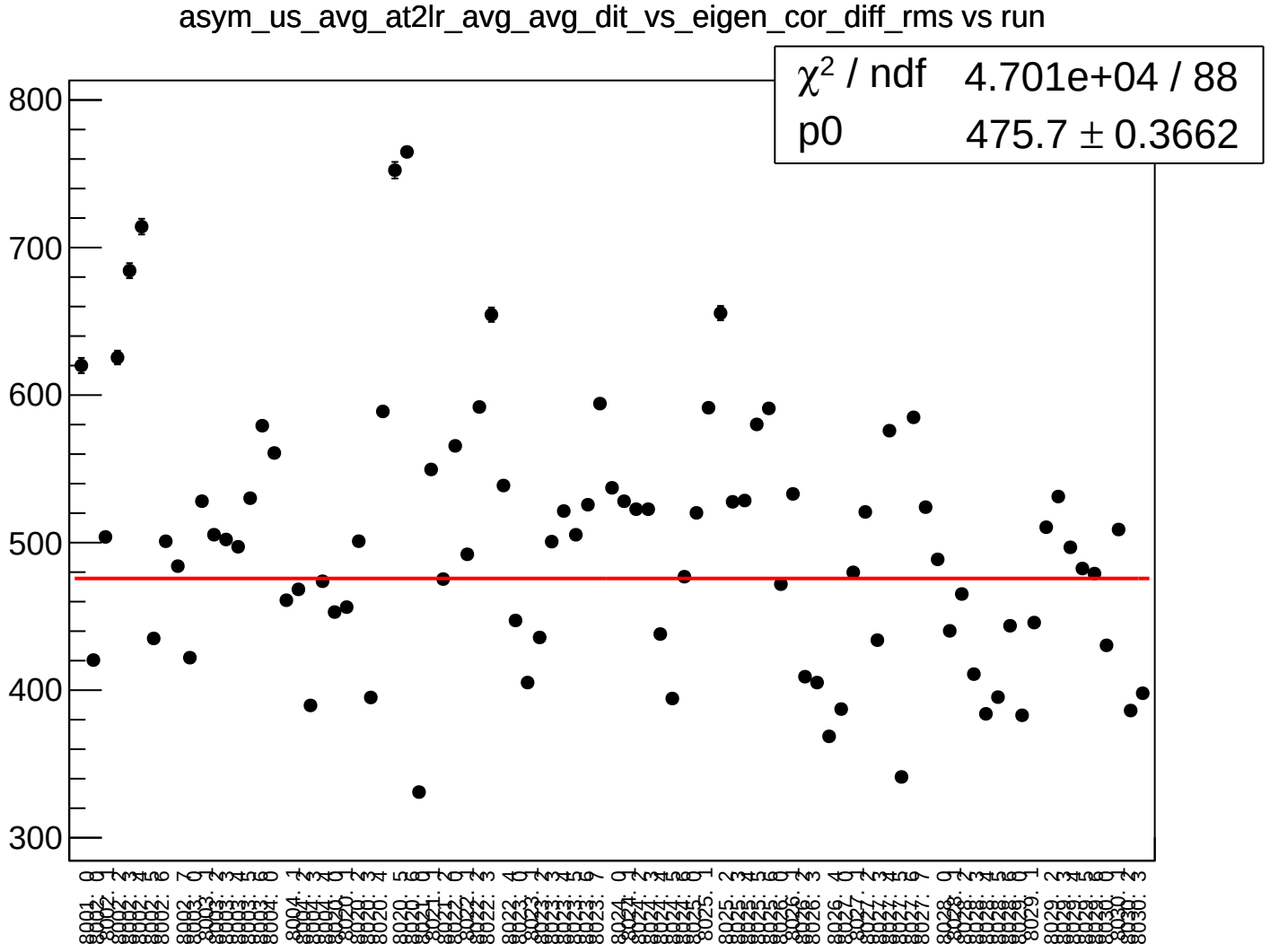

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 122.9 / 88
p0 0.463 ± 0.5179
pull
Entries 89
Mean 69.72
Std Dev 0

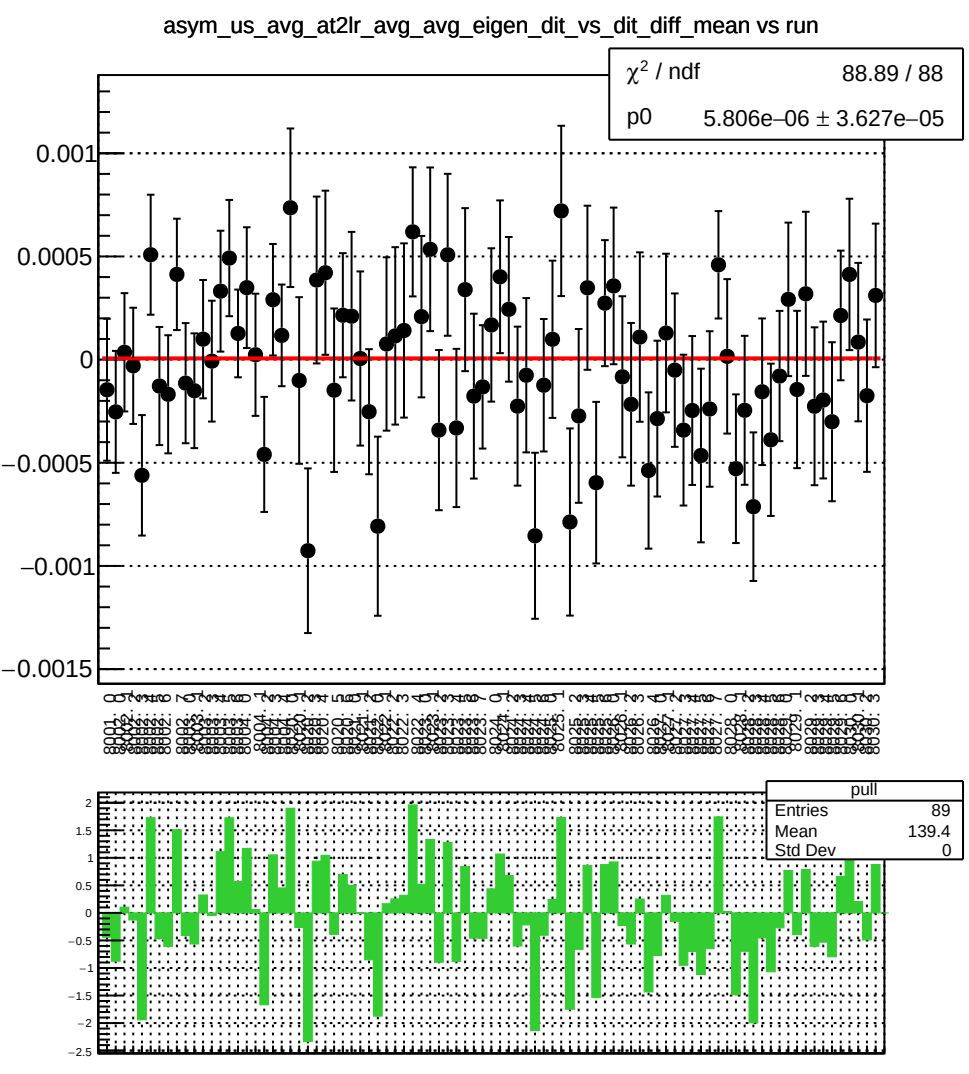

pull1D
Entries 89
Mean −0.01871
Std Dev 1.175

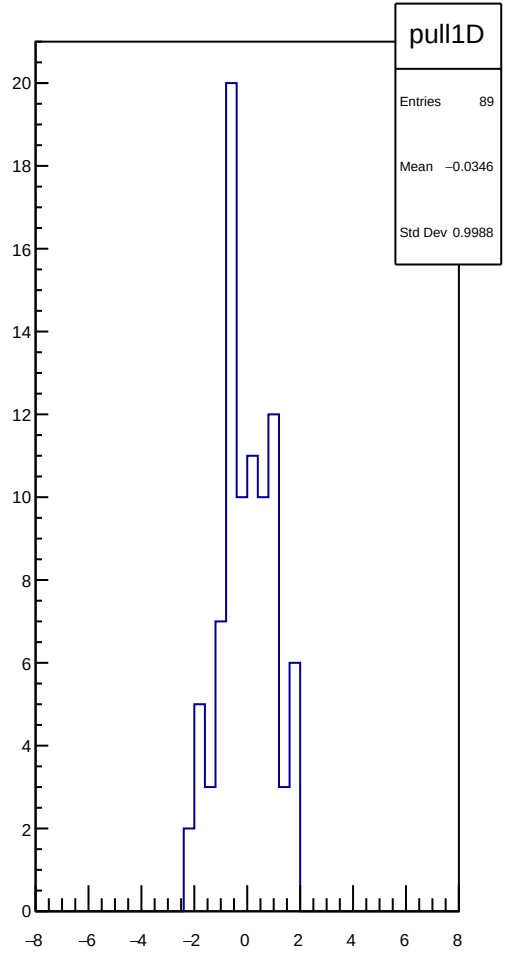

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.701e+04 / 88
p0 475.7 ± 0.3662
800
700
600
500
400
300

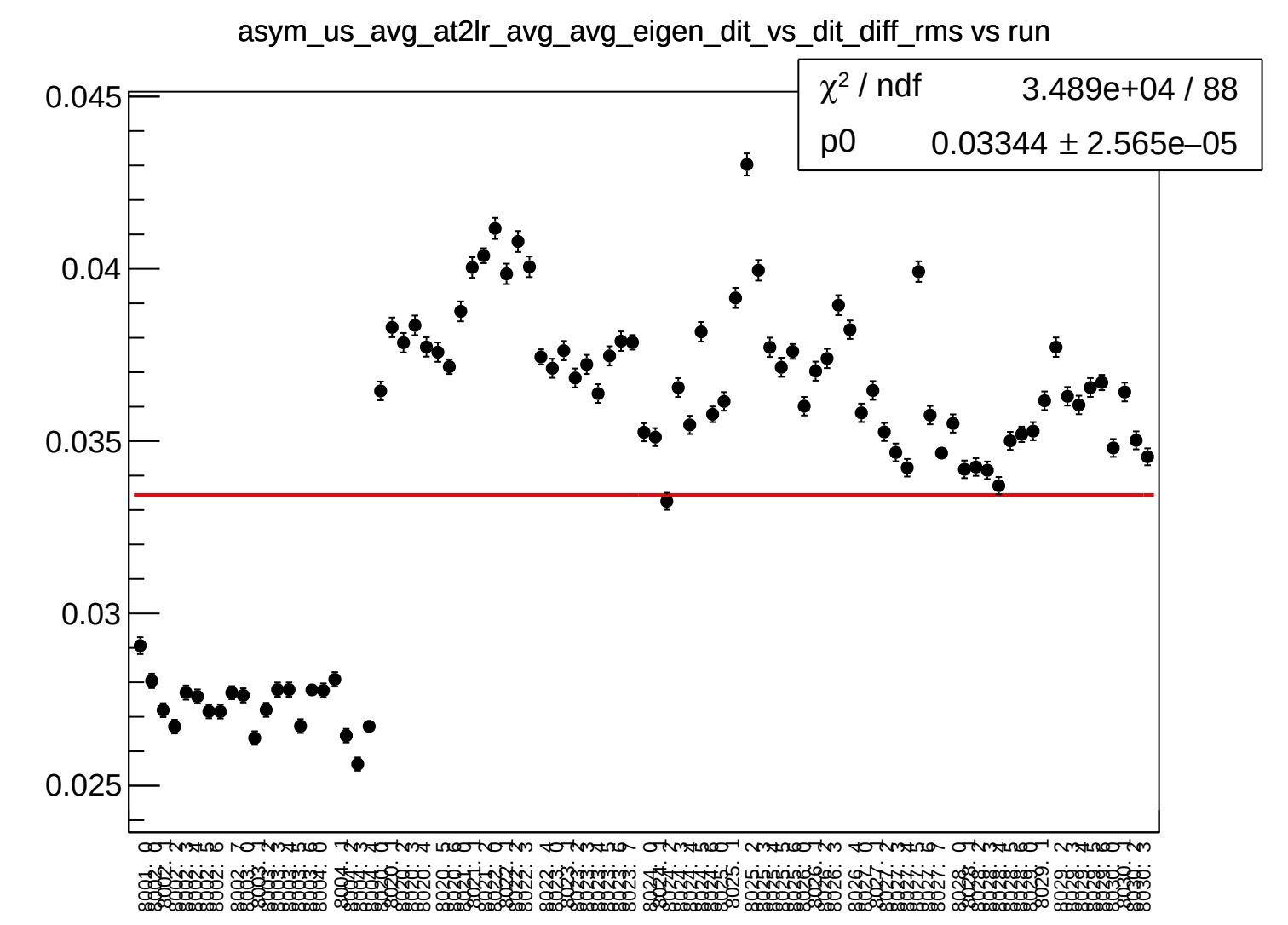

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 122.9 / 88
p0 0.463 ± 0.5179
pull
Entries 89
Mean 69.72
Std Dev 0

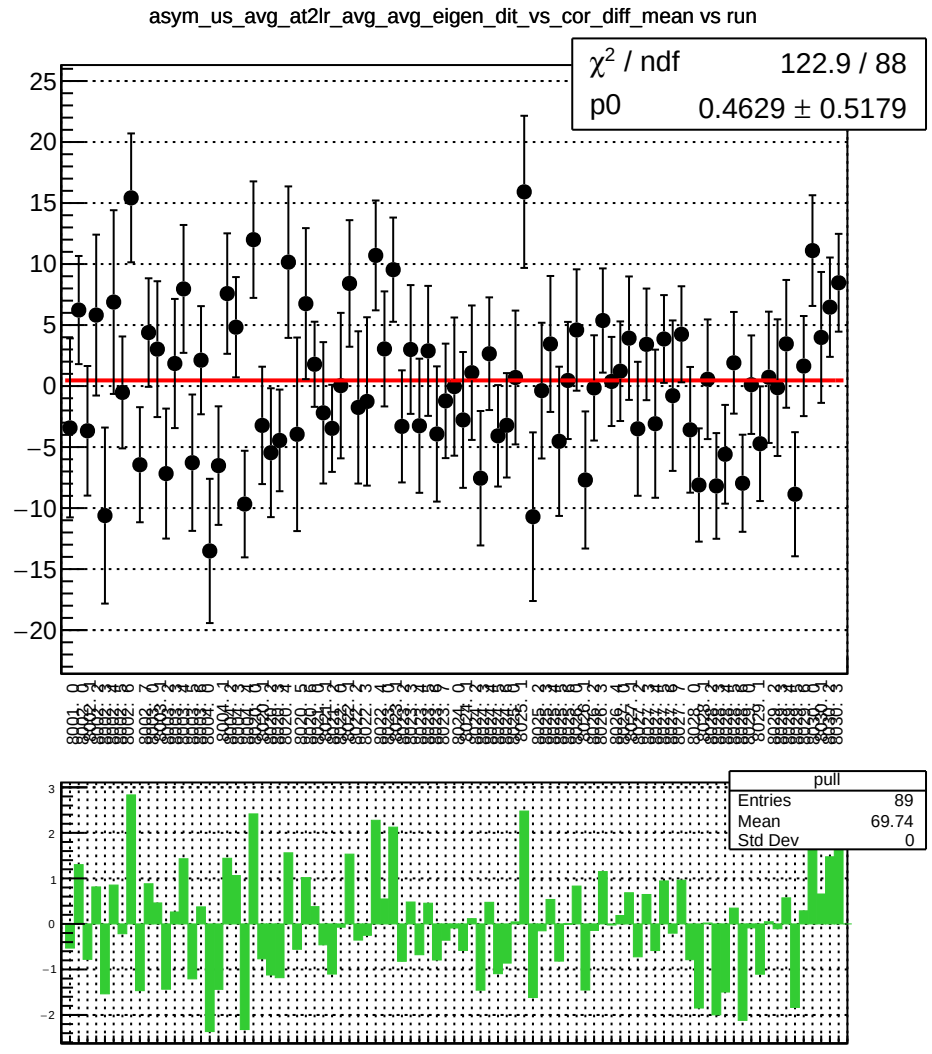

pull1D
Entries 89
Mean −0.01871
Std Dev 1.175

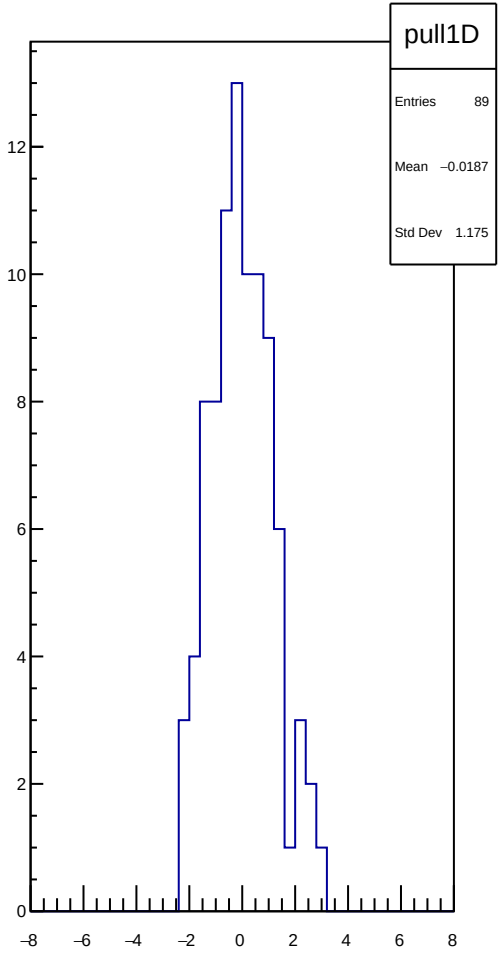

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.701e+04 / 88
p0 475.7 ± 0.3662
800
700
600
500
400
300

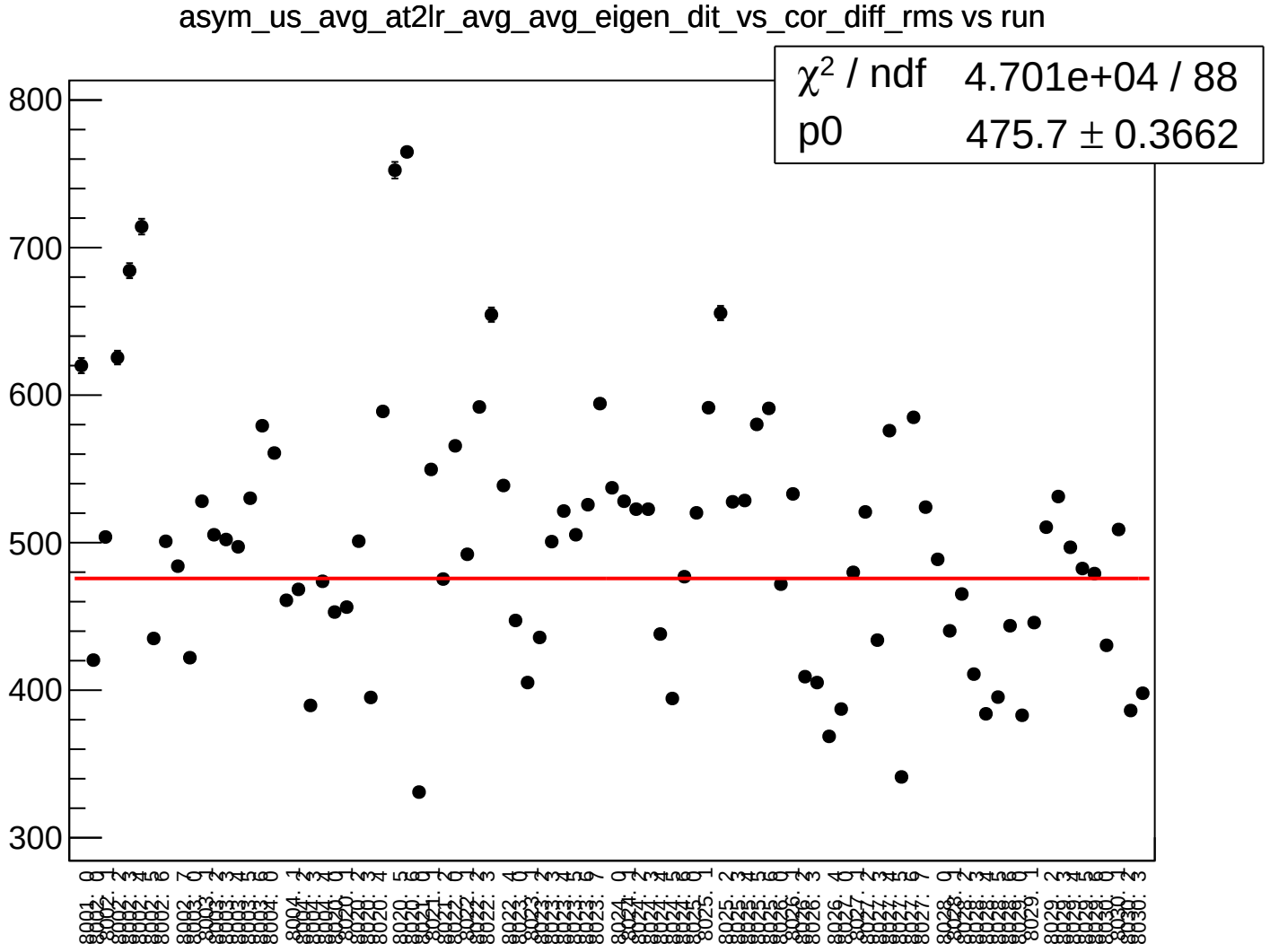

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 88.89 / 88
p0 5.806e−06 ± 3.627e−05
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 89
Mean 139.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

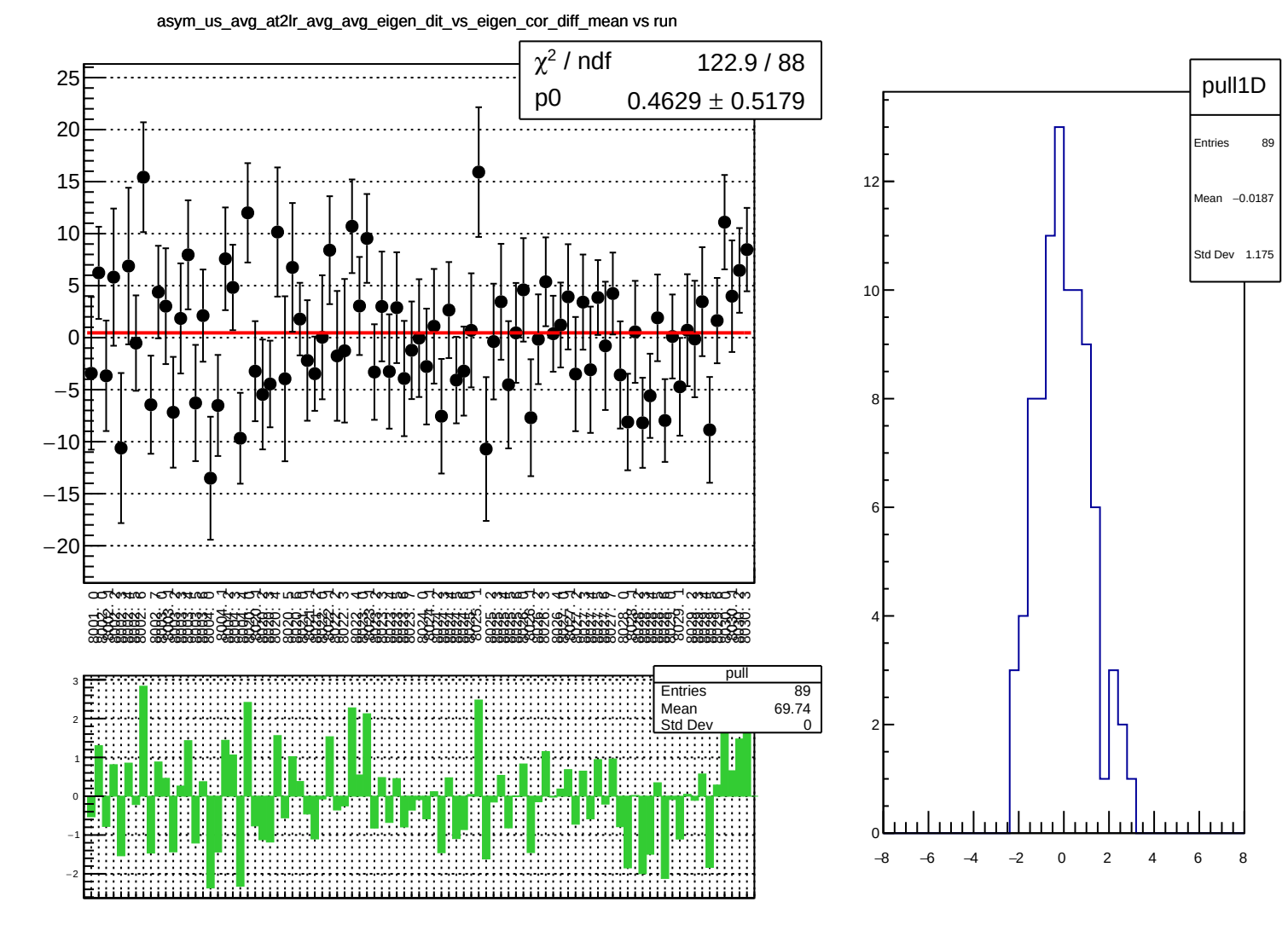

pull1D
Entries 89
Mean −0.0346
Std Dev 0.9988
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

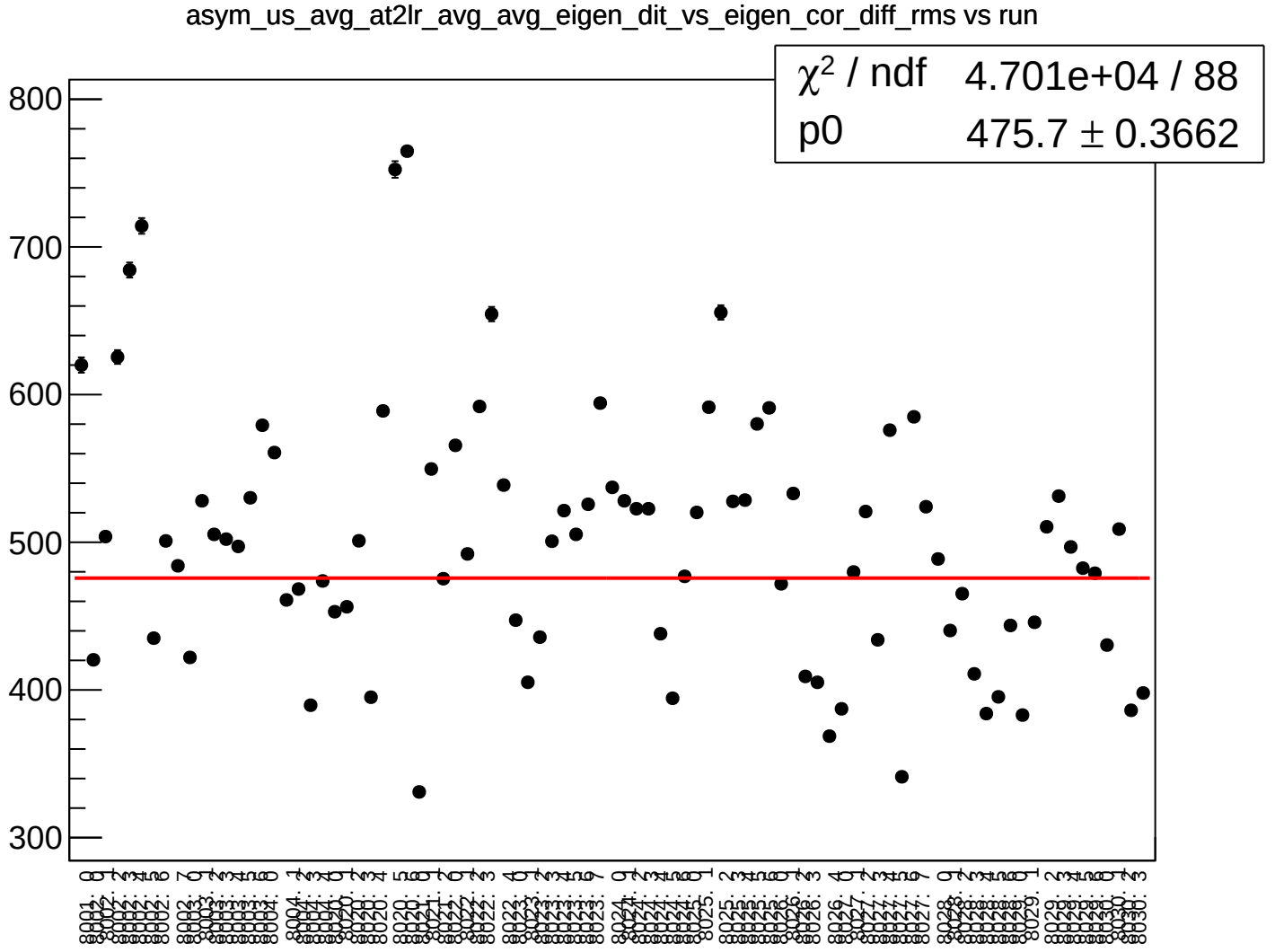

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.489e+04 / 88
p0 0.03344 ± 2.565e−05
0.045
0.04
0.035
0.03
0.025

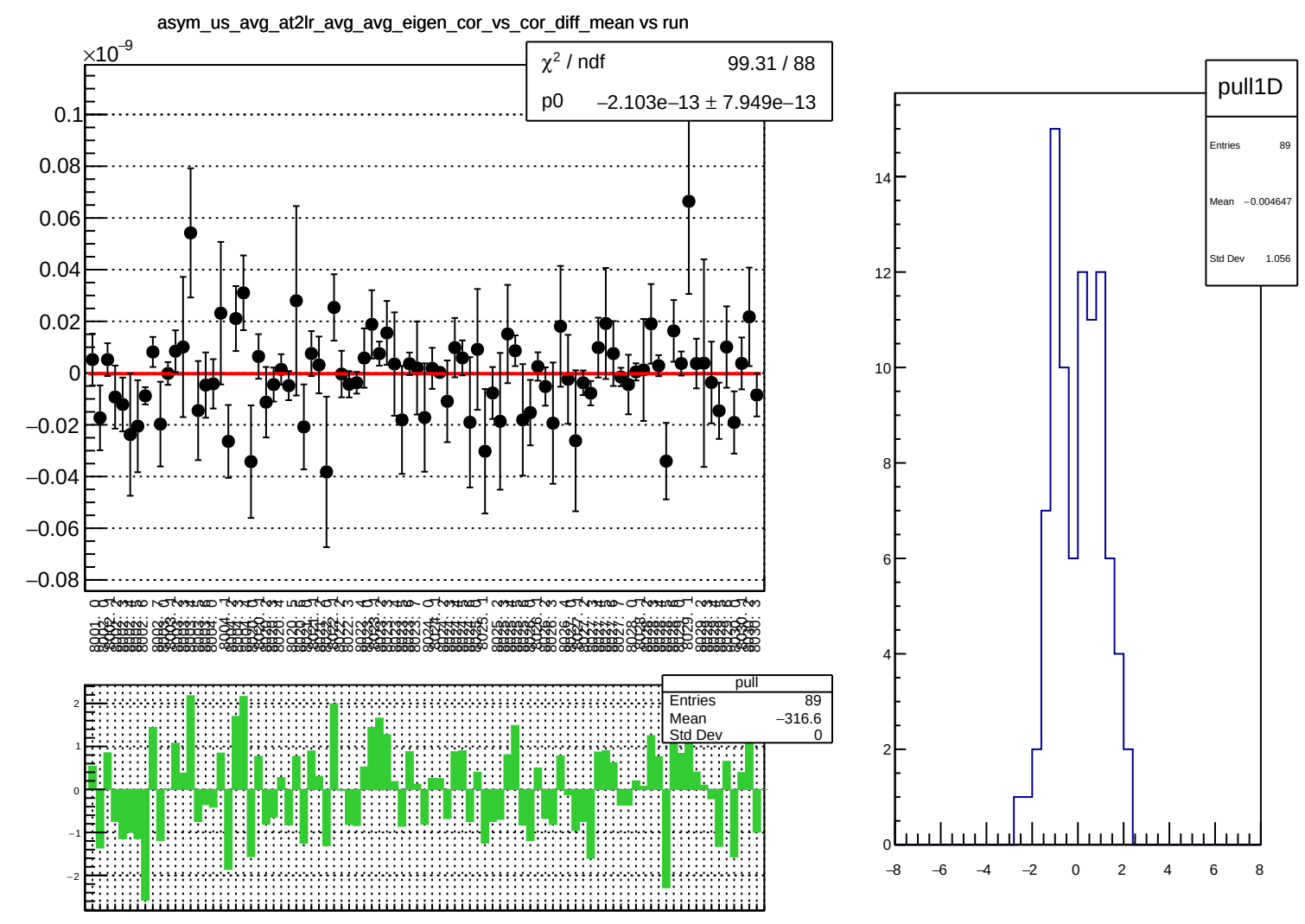

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 122.9 / 88
p0 0.4629 ± 0.5179
pull
Entries 89
Mean 69.74
Std Dev 0

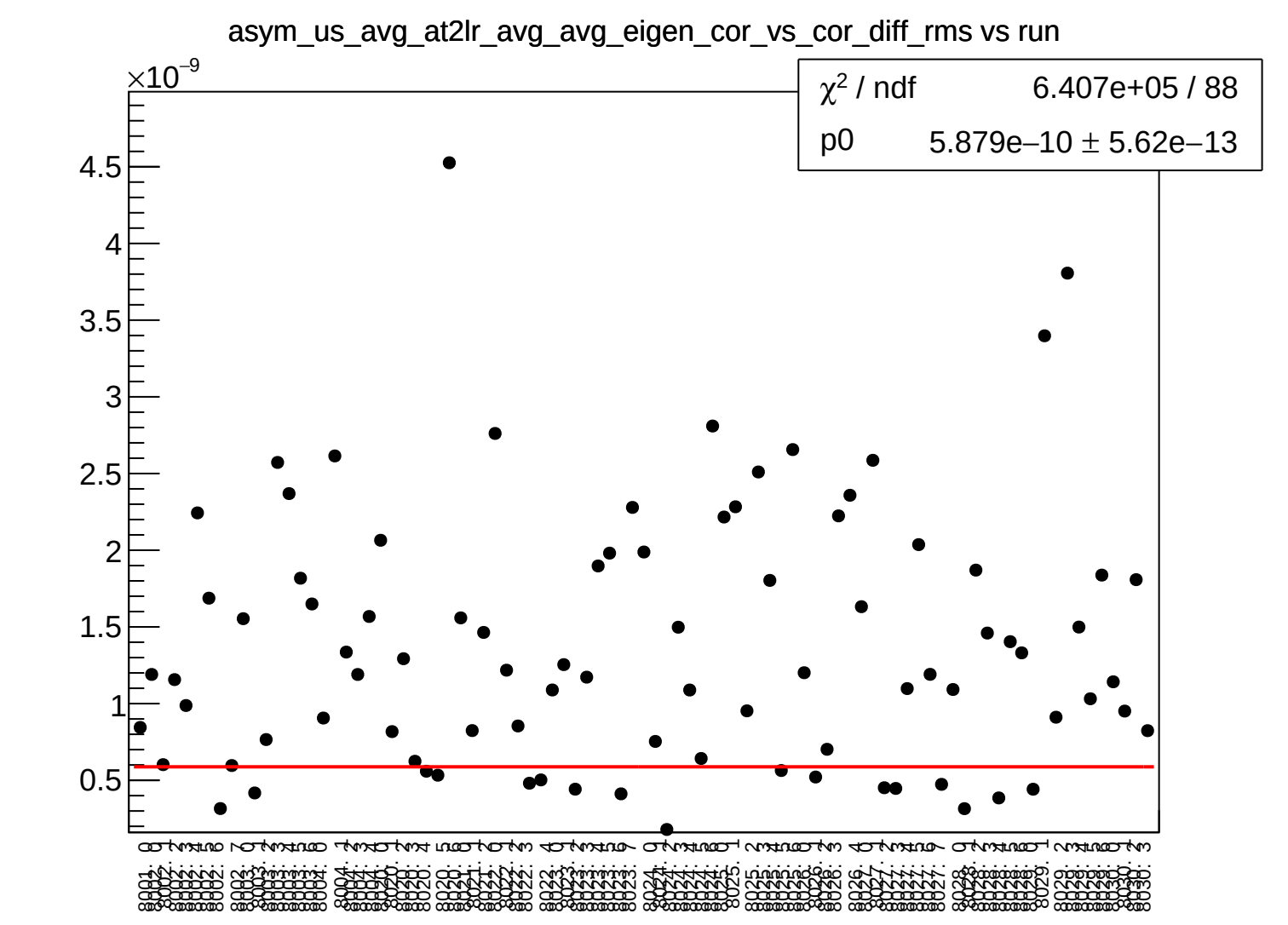

pull1D
Entries 89
Mean −0.0187
Std Dev 1.175

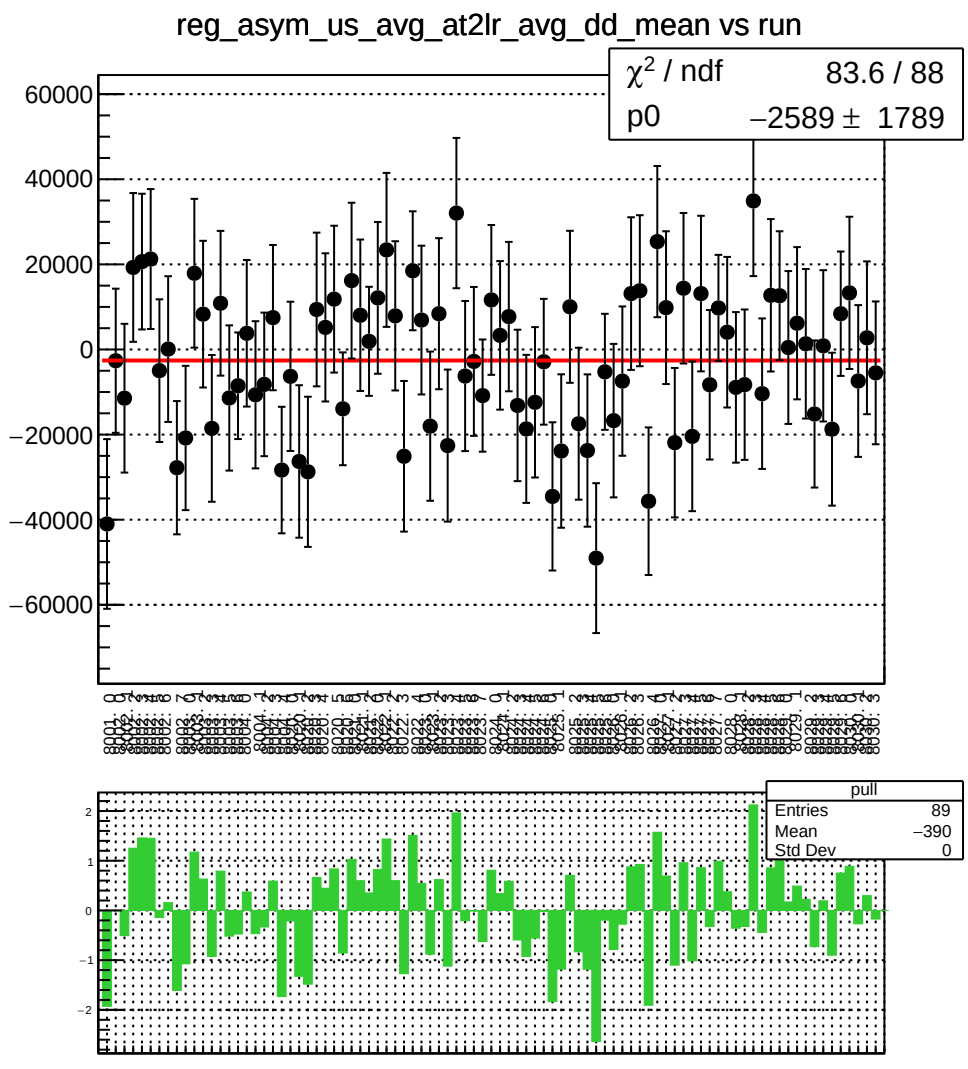

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.701e+04 / 88
p0 475.7 ± 0.3662
800
700
600
500
400
300

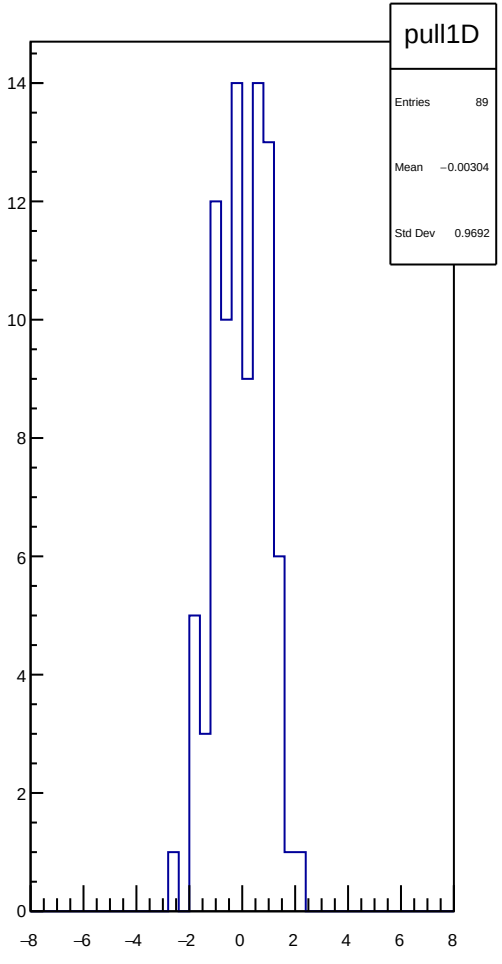

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 122.9 / 88
p0 0.4629 ± 0.5179
pull
Entries 89
Mean 69.74
Std Dev 0
pull1D
Entries 89
Mean −0.0187
Std Dev 1.175

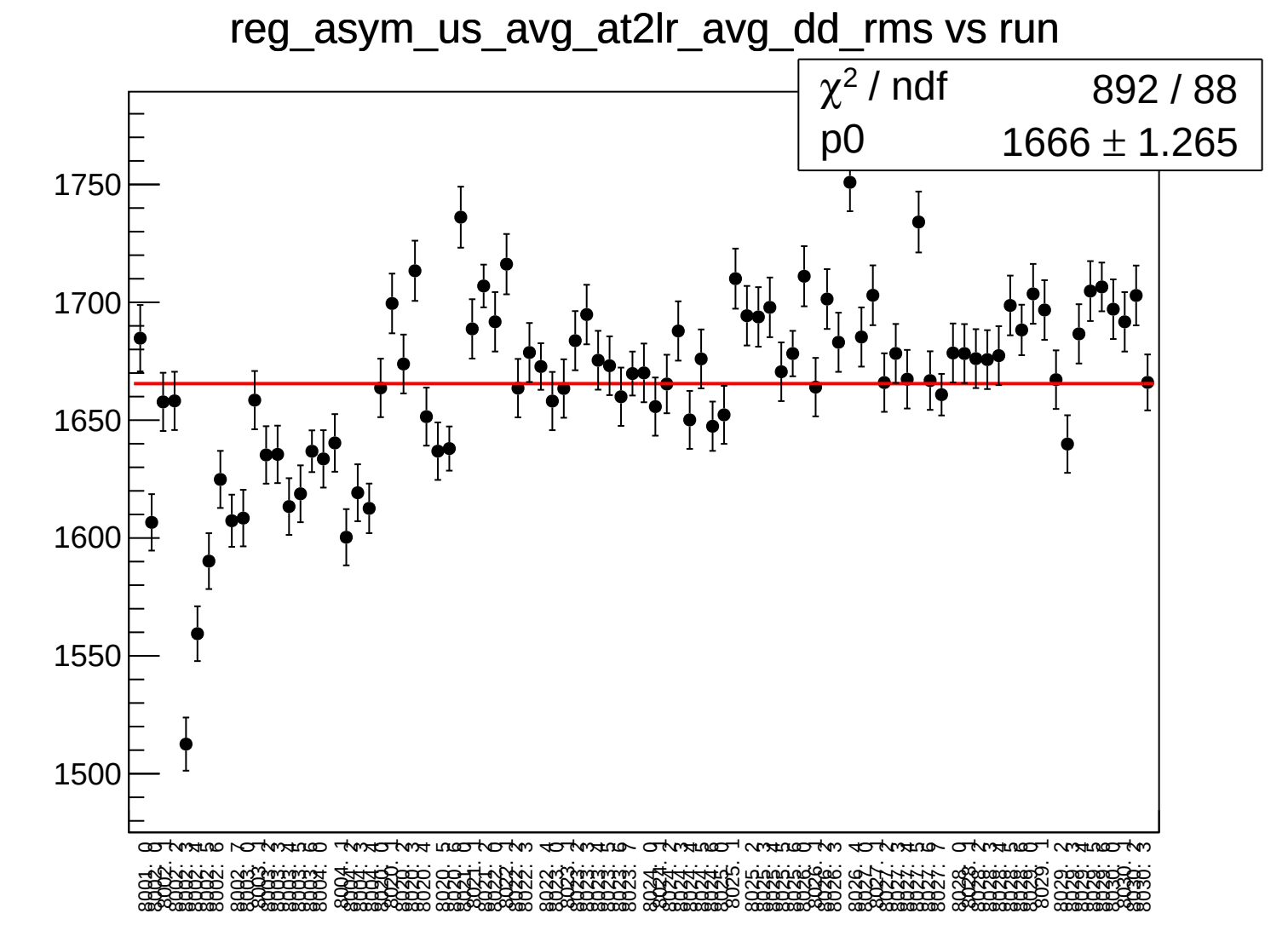

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.701e+04 / 88
p0 475.7 ± 0.3662
800
700
600
500
400
300

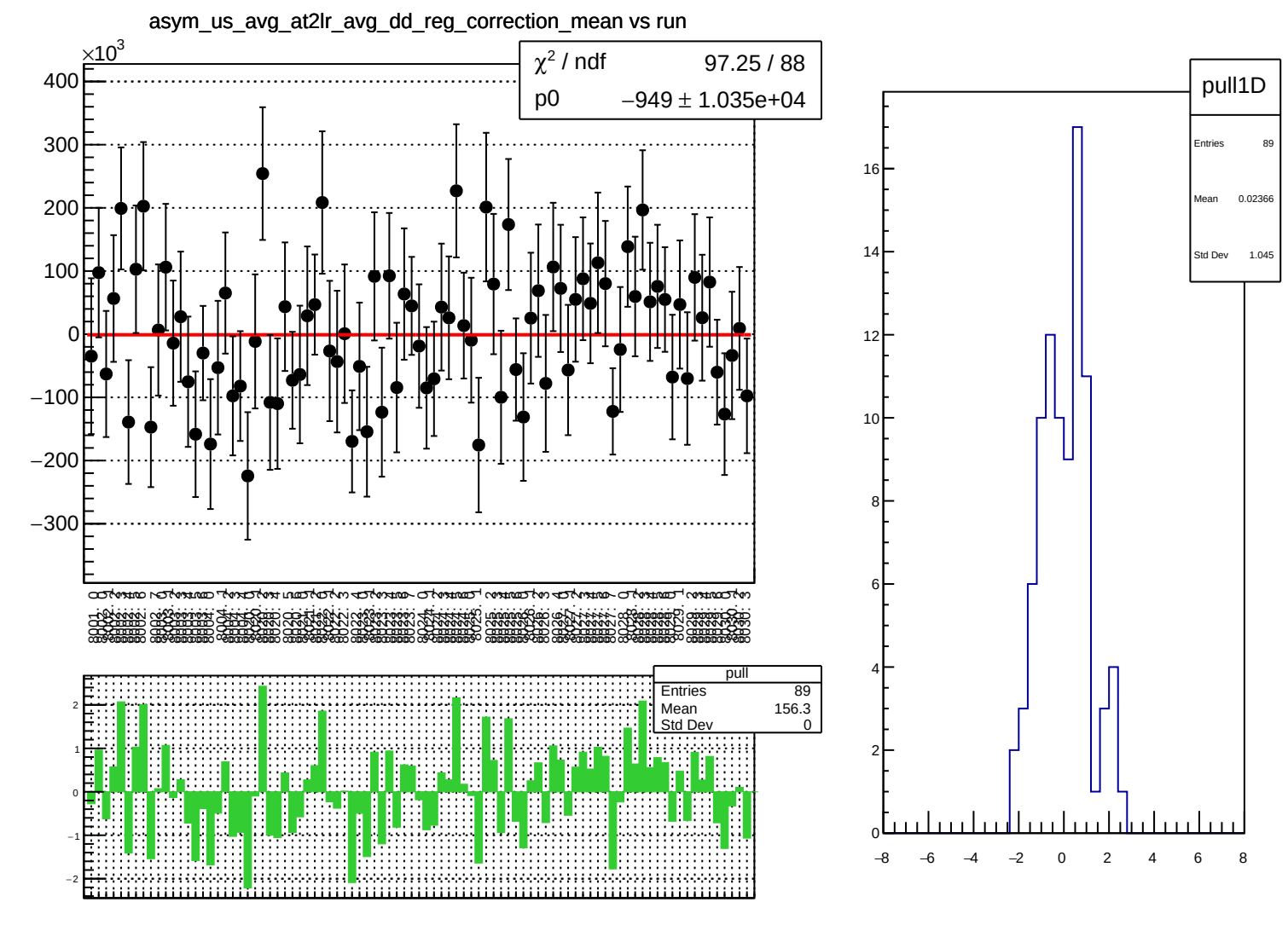

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 99.31 / 88
p0 −2.103e−13 ± 7.949e−13
pull
Entries 89
Mean −316.6
Std Dev 0
pull1D
Entries 89
Mean −0.004647
Std Dev 1.056

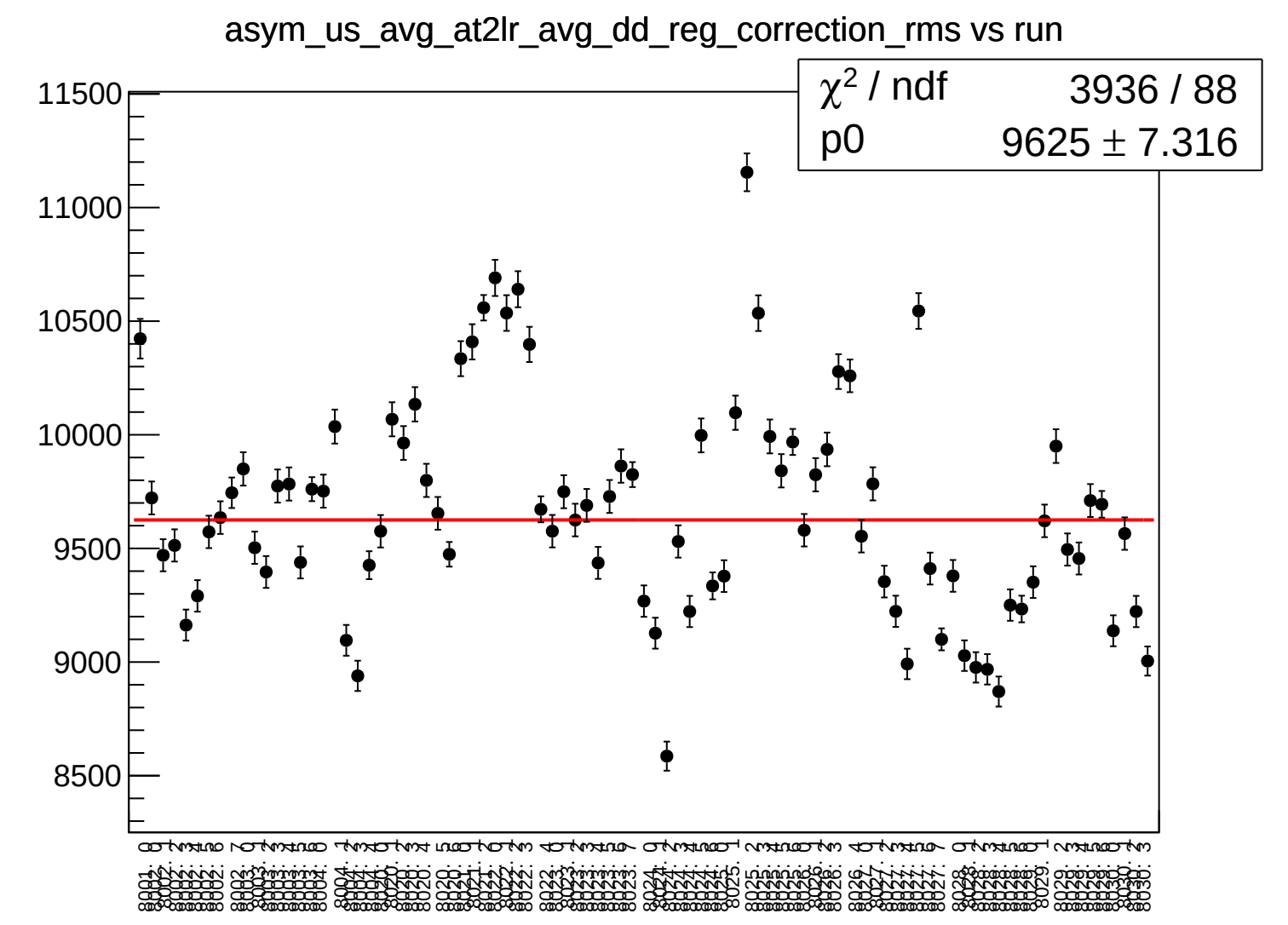

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.407e+05 / 88
p0 5.879e−10 ± 5.62e−13
4.5
4
3.5
3
2.5
2
1.5
1
0.5

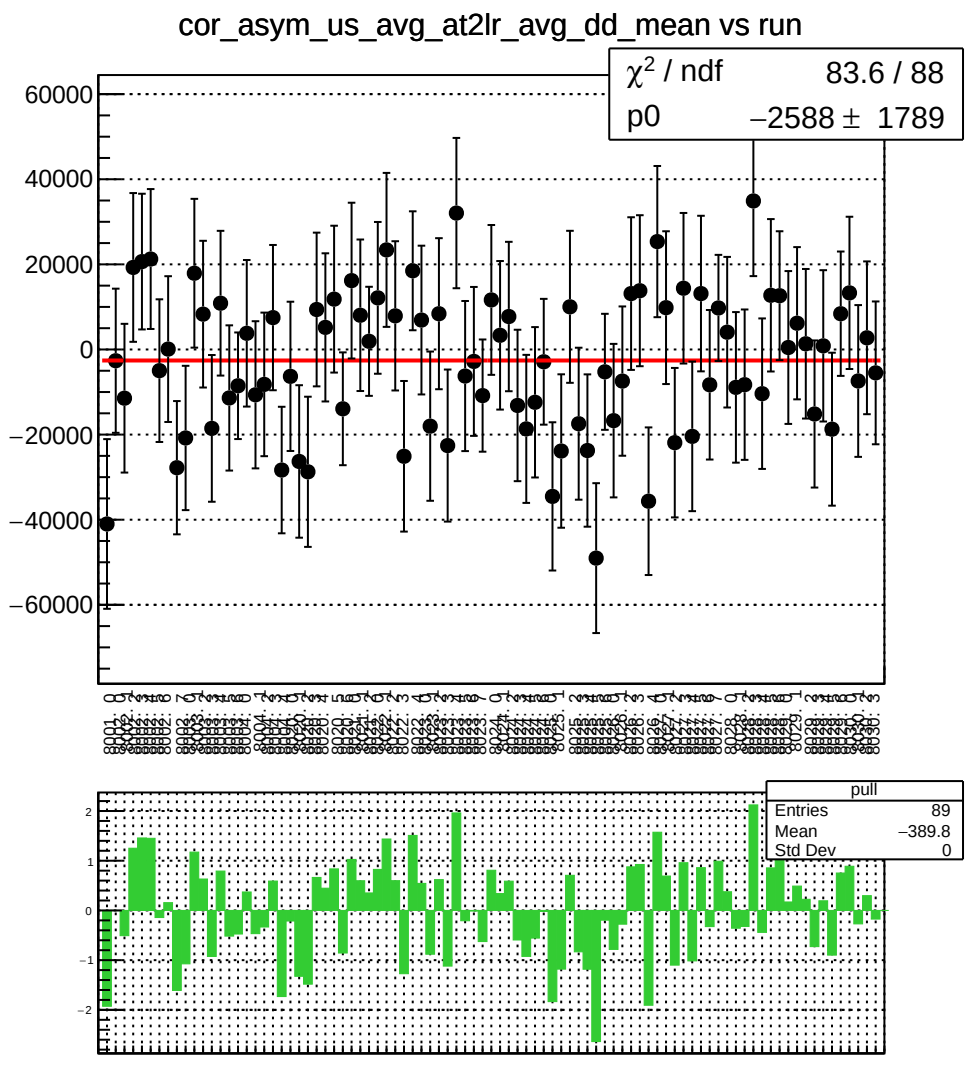

reg_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 83.6 / 88
p0 −2589 ± 1789
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −390
Std Dev 0
2
1
0
−1
−2

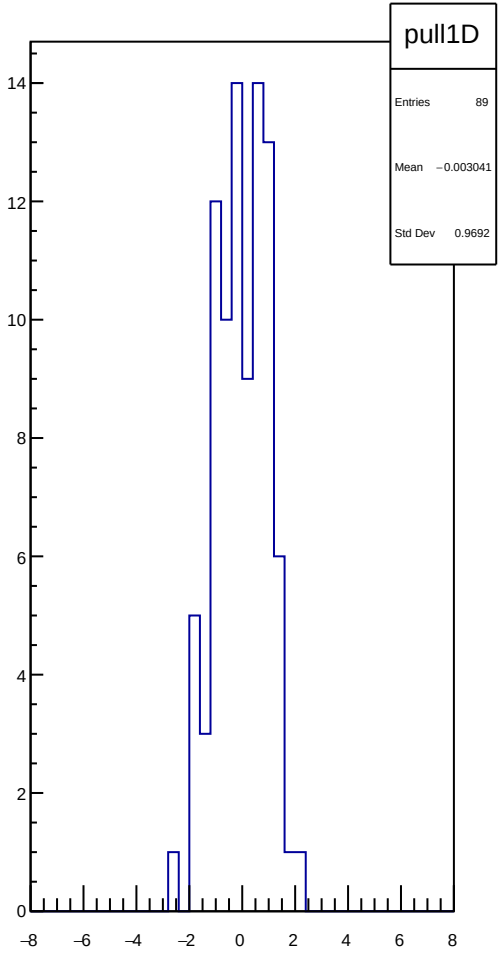

pull1D
Entries 89
Mean −0.00304
Std Dev 0.9692
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

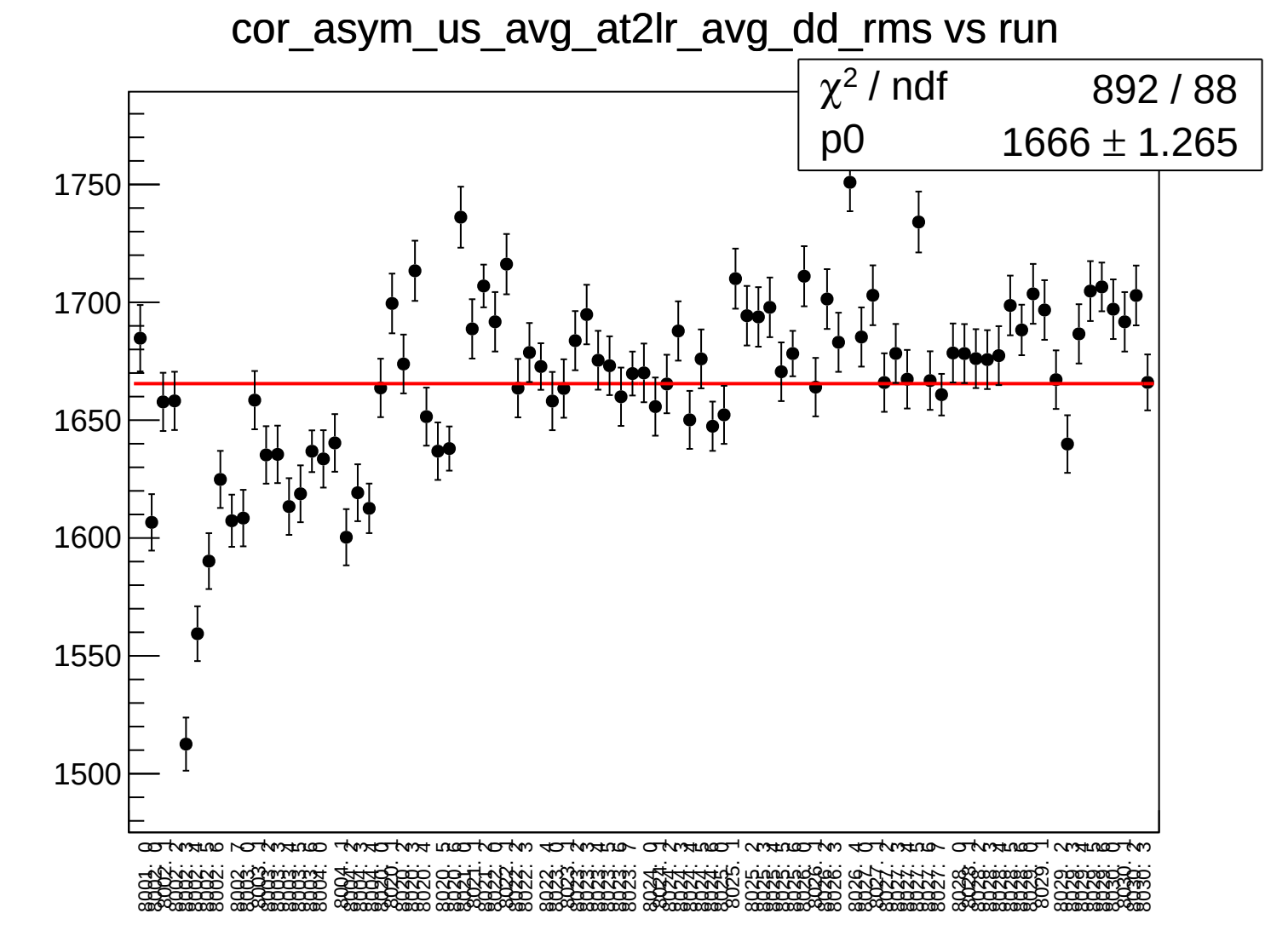

reg_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 892 / 88
p0 1666 ± 1.265
1750
1700
1650
1600
1550
1500

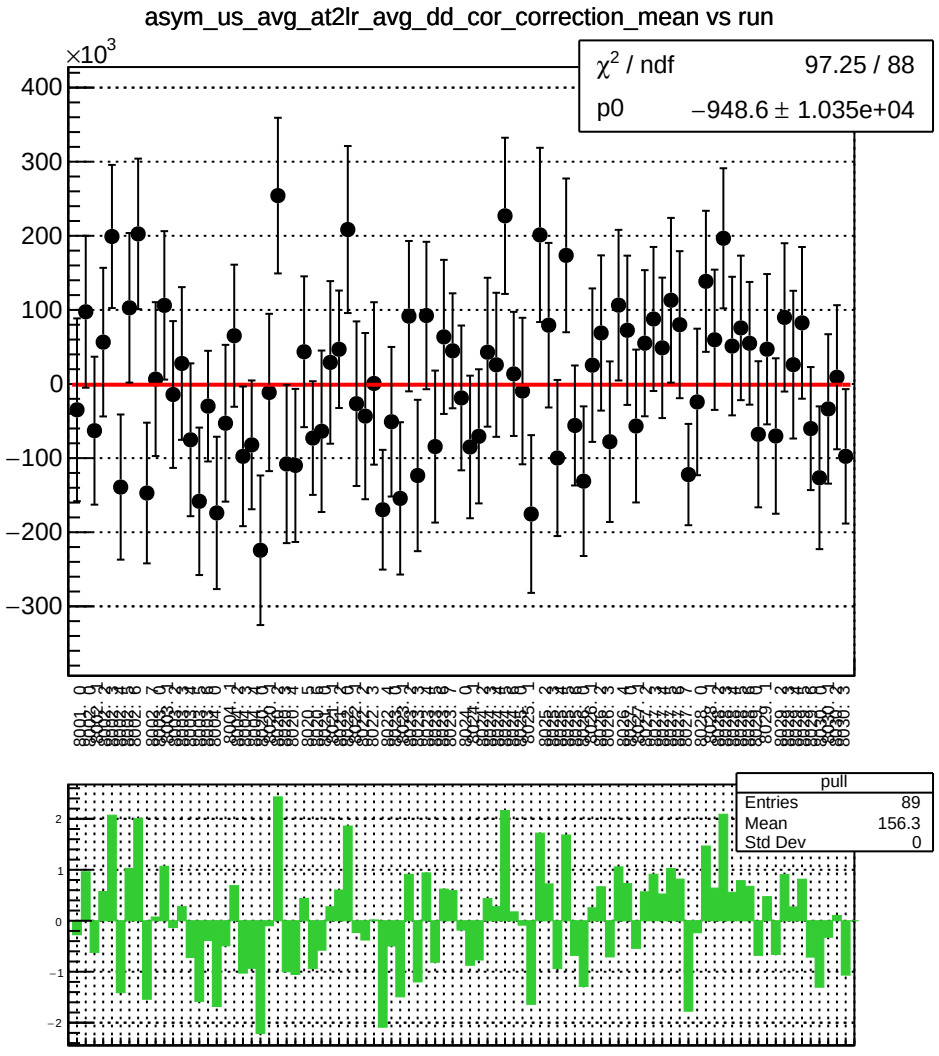

asym_us_avg_at2lr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 97.25 / 88
p0 −949 ± 1.035e+04
pull
Entries 89
Mean 156.3
Std Dev 0
pull1D
Entries 89
Mean 0.02366
Std Dev 1.045

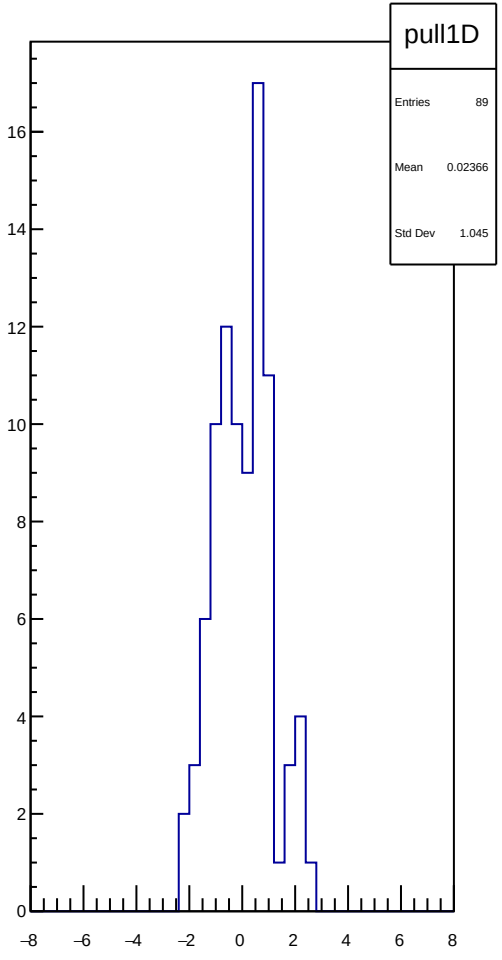

asym_us_avg_at2lr_avg_dd_reg_correction_rms vs run
χ² / ndf 3936 / 88
p0 9625 ± 7.316
11500
11000
10500
10000
9500
9000
8500

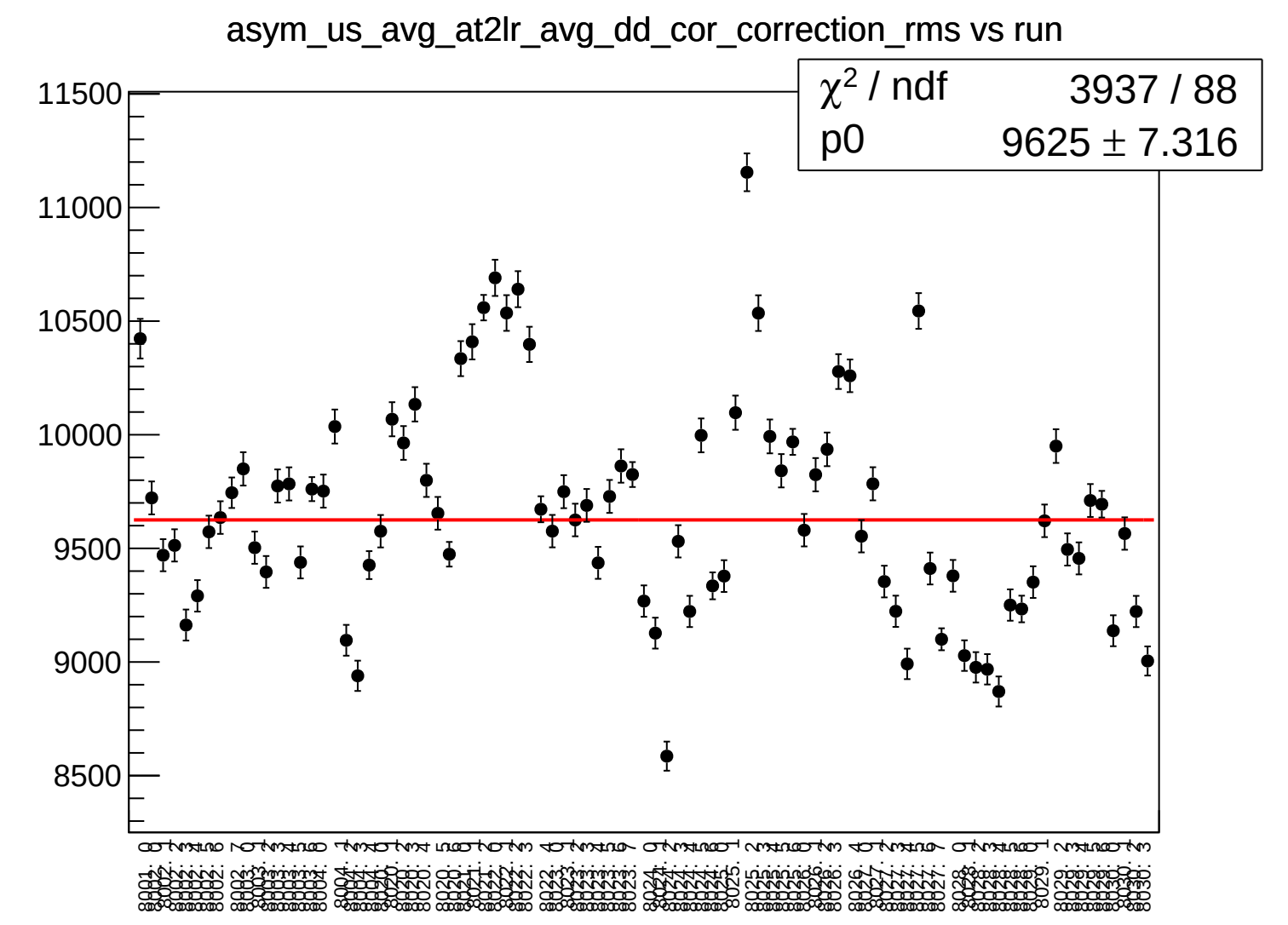

cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 83.6 / 88
p0 −2588 ± 1789
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −389.8
Std Dev 0
2
1
0
−1
−2

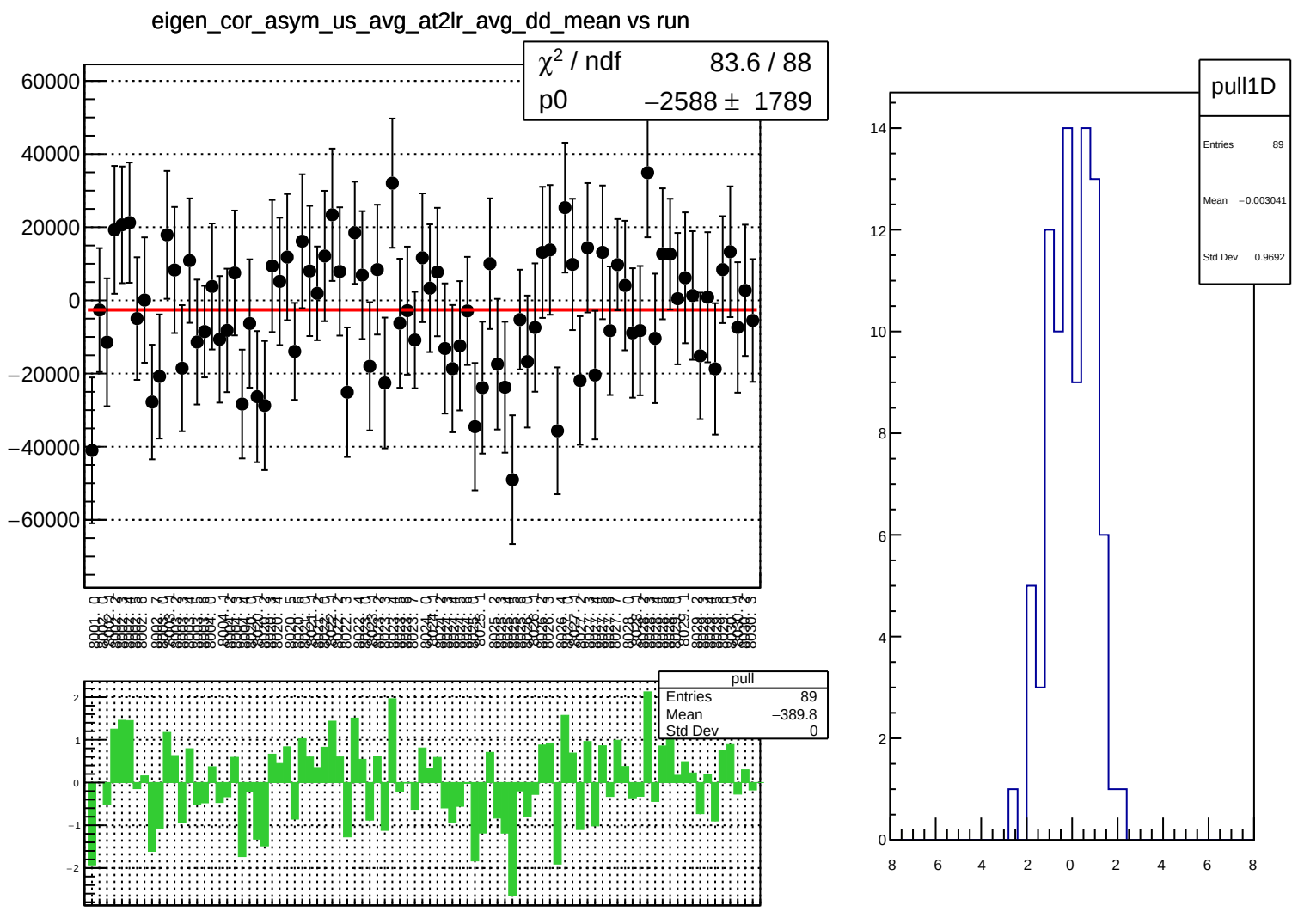

pull1D
Entries 89
Mean −0.003041
Std Dev 0.9692
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

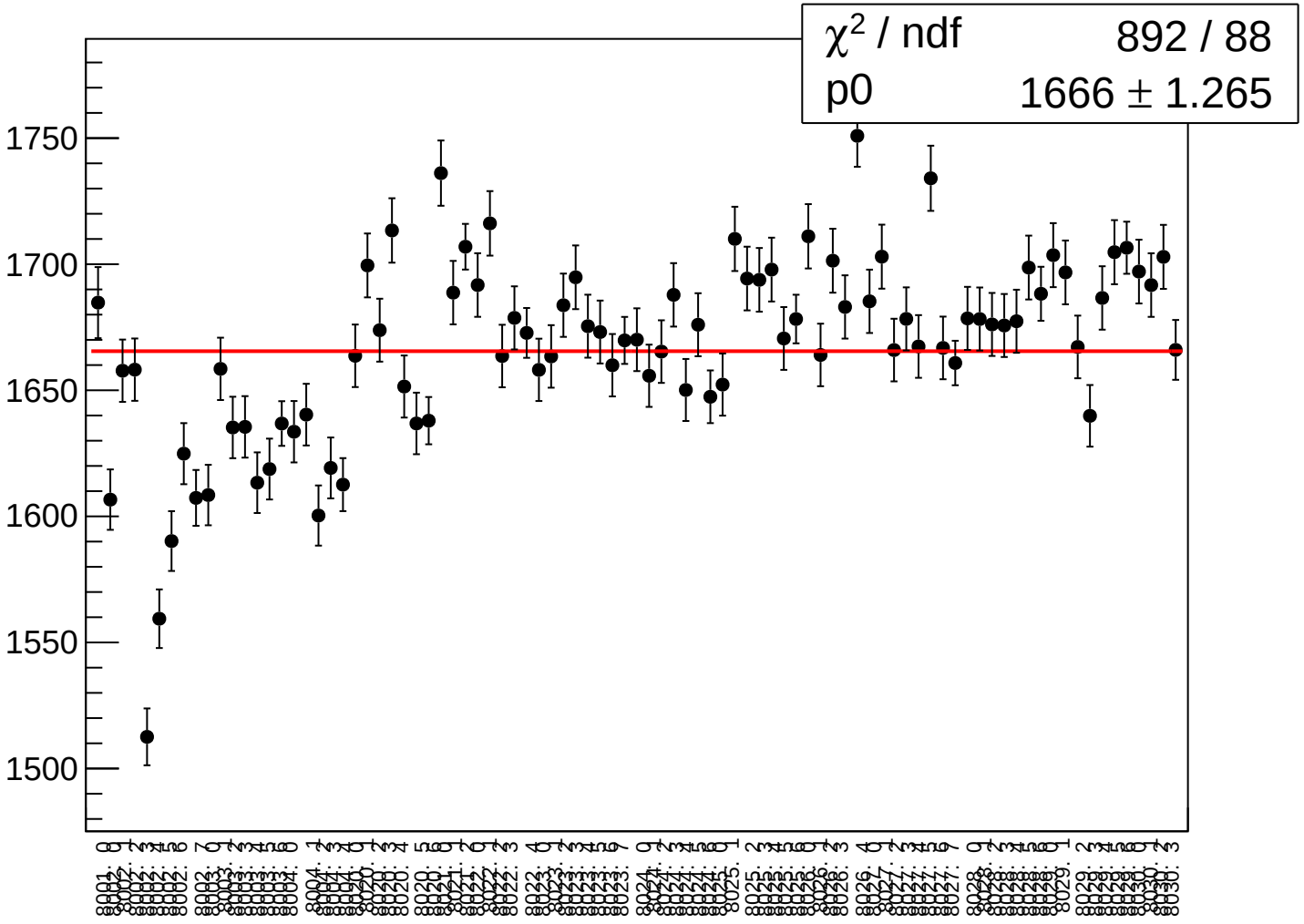

cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 892 / 88
p0 1666 ± 1.265
1750
1700
1650
1600
1550
1500

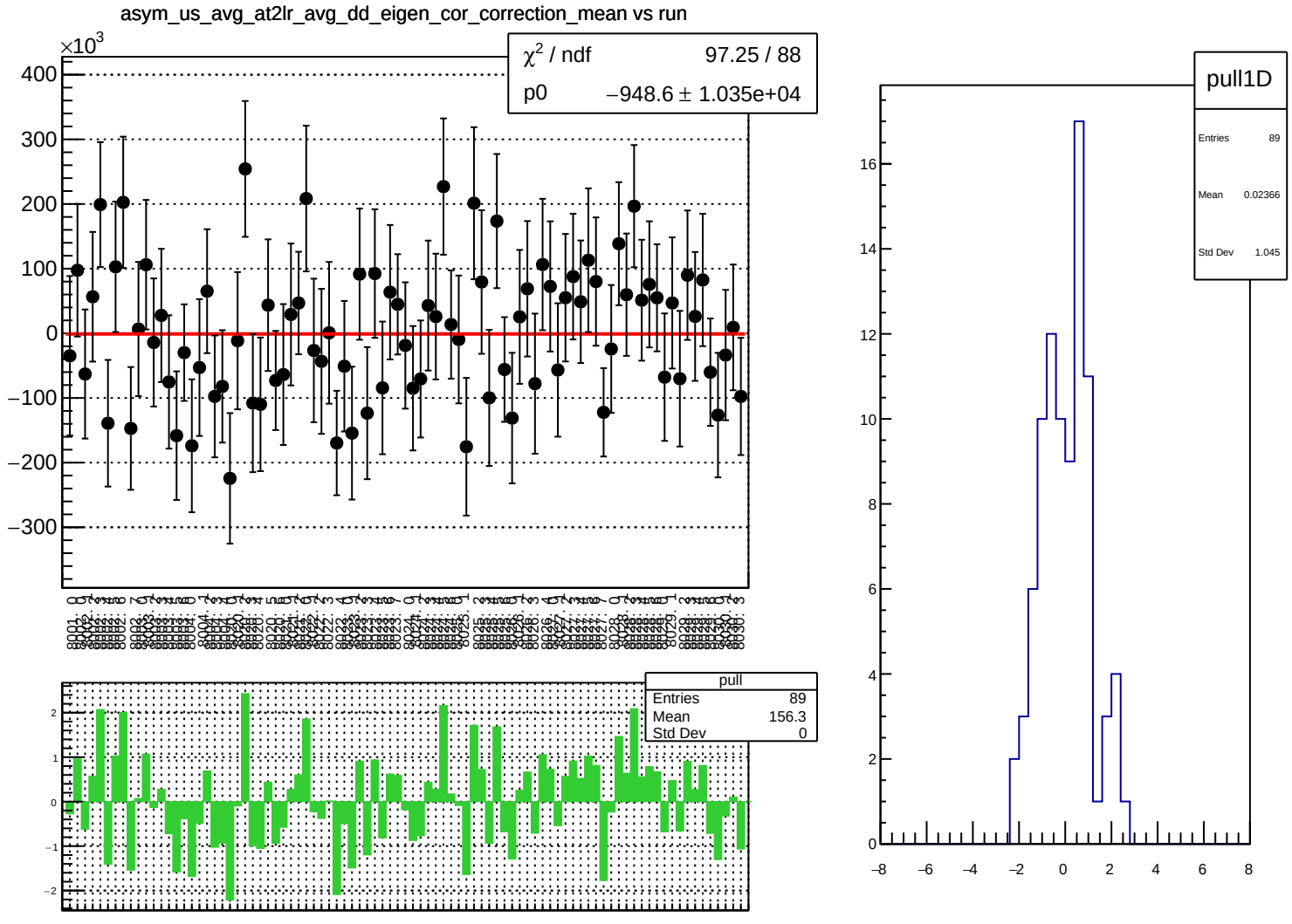

asym_us_avg_at2lr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 97.25 / 88
p0 −948.6 ± 1.035e+04
pull
Entries 89
Mean 156.3
Std Dev 0

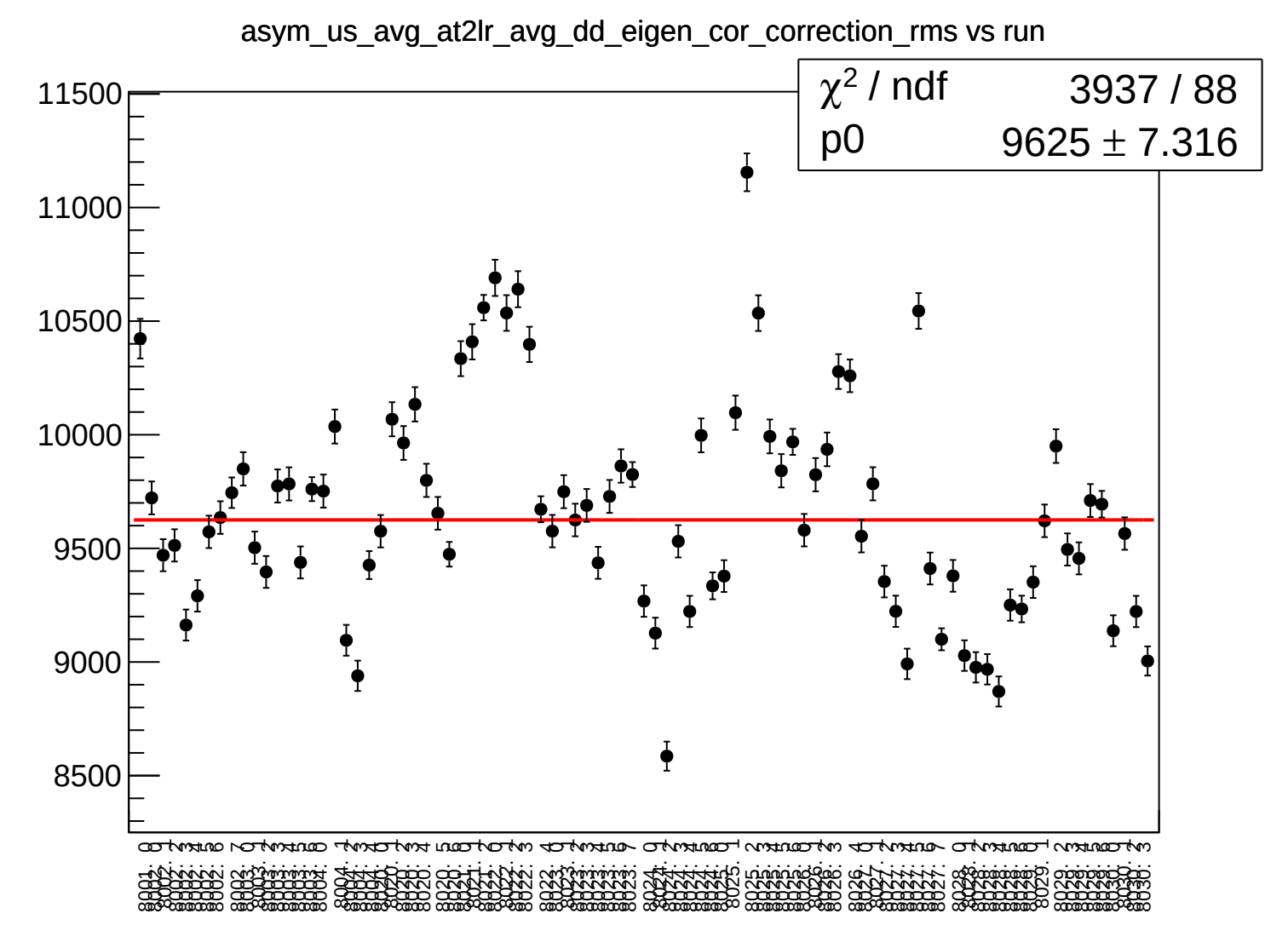

pull1D
Entries 89
Mean 0.02366
Std Dev 1.045

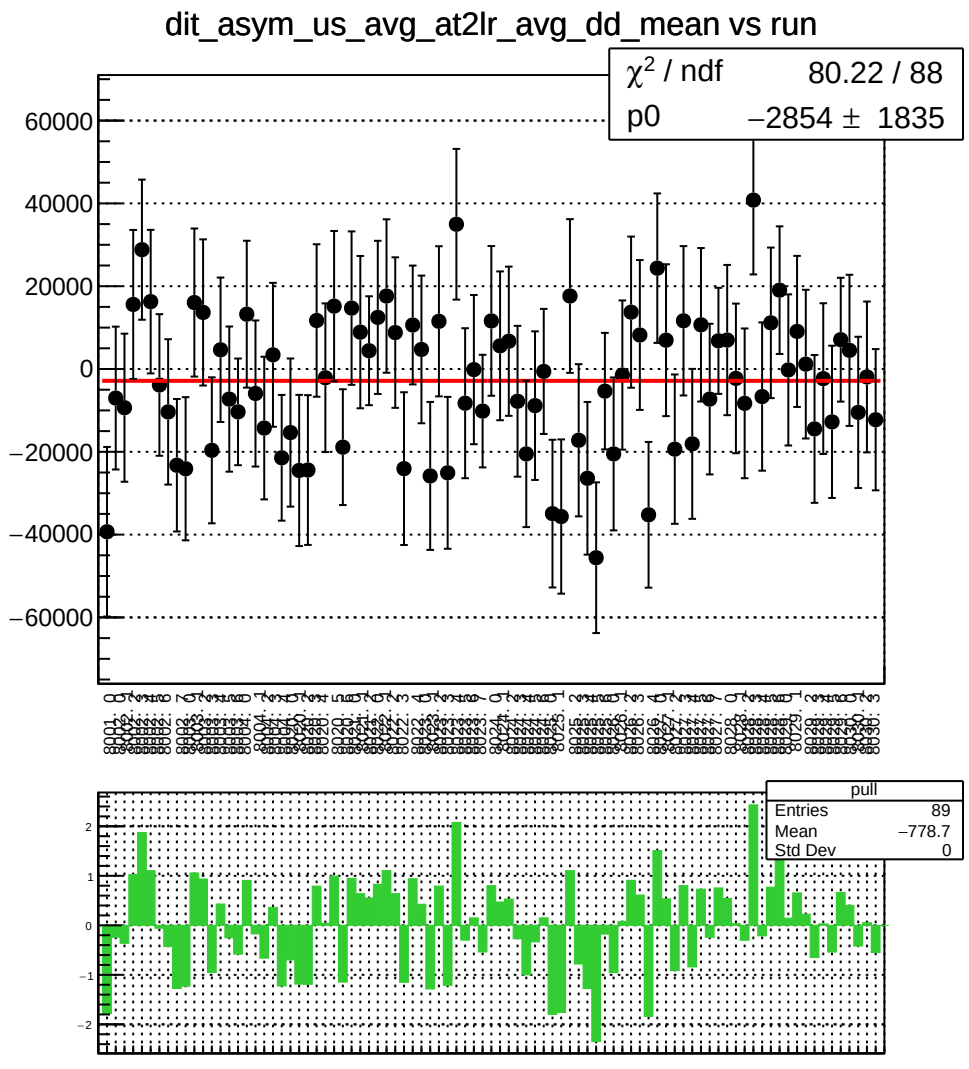

asym_us_avg_at2lr_avg_dd_cor_correction_rms vs run
χ² / ndf 3937 / 88
p0 9625 ± 7.316
11500
11000
10500
10000
9500
9000
8500

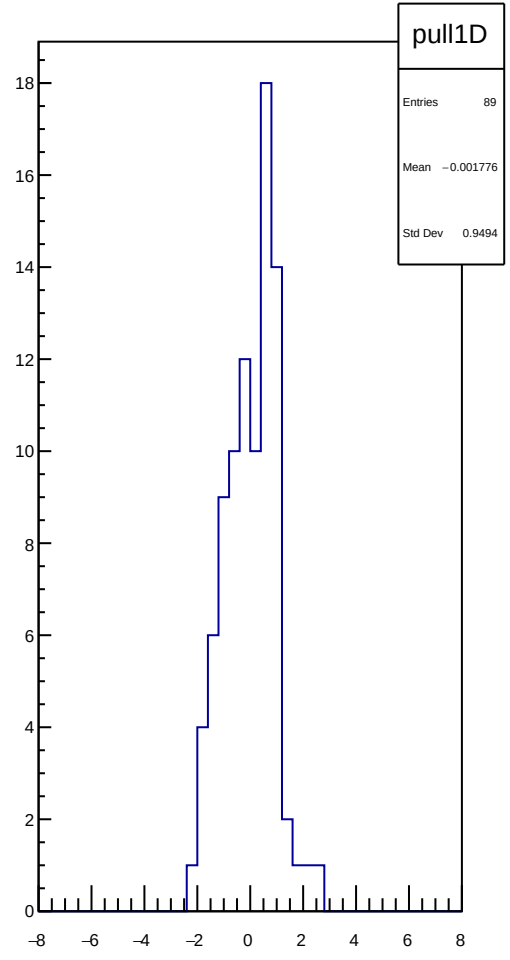

eigen_cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 83.6 / 88
p0 −2588 ± 1789
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −389.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.003041
Std Dev 0.9692
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

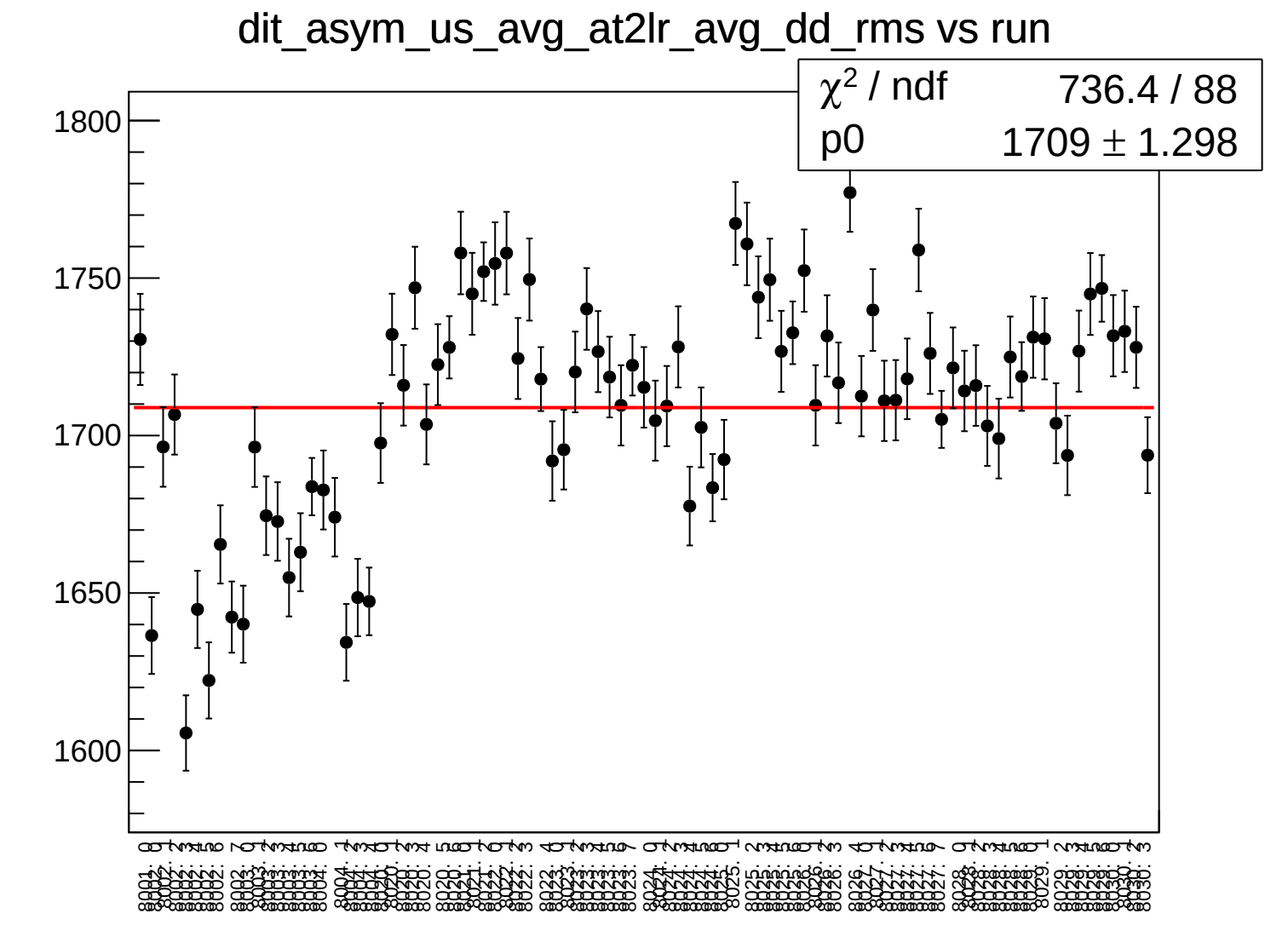

eigen_cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 892 / 88
p0 1666 ± 1.265
1750
1700
1650
1600
1550
1500

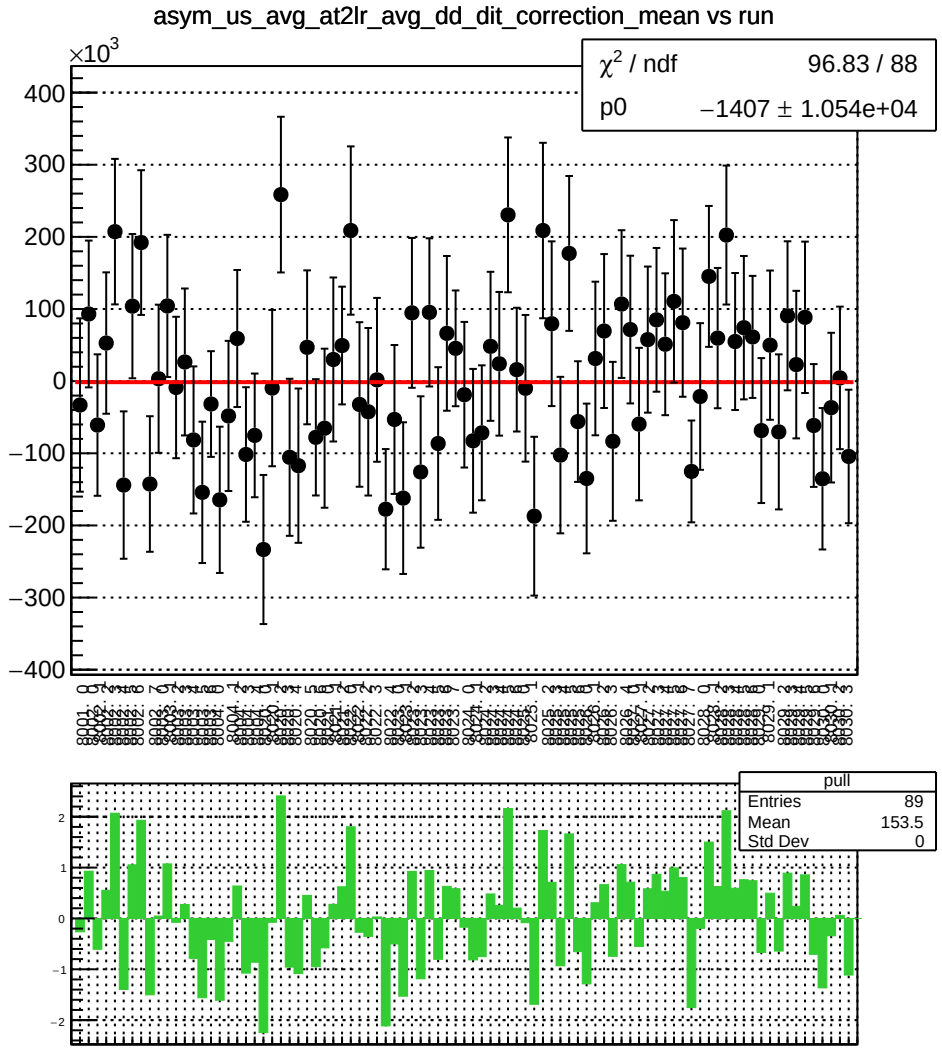

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 97.25 / 88
p0 −948.6 ± 1.035e+04
pull
Entries 89
Mean 156.3
Std Dev 0
pull1D
Entries 89
Mean 0.02366
Std Dev 1.045

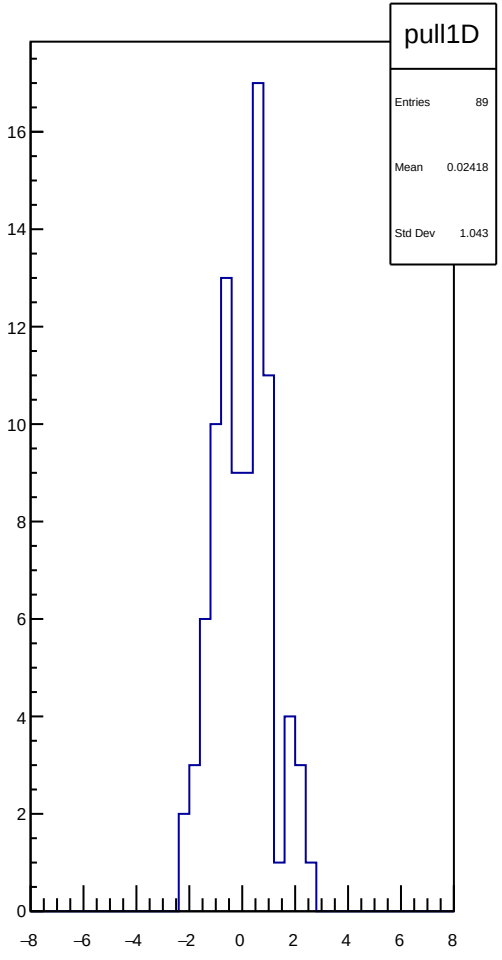

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 3937 / 88
p0 9625 ± 7.316
11500
11000
10500
10000
9500
9000
8500

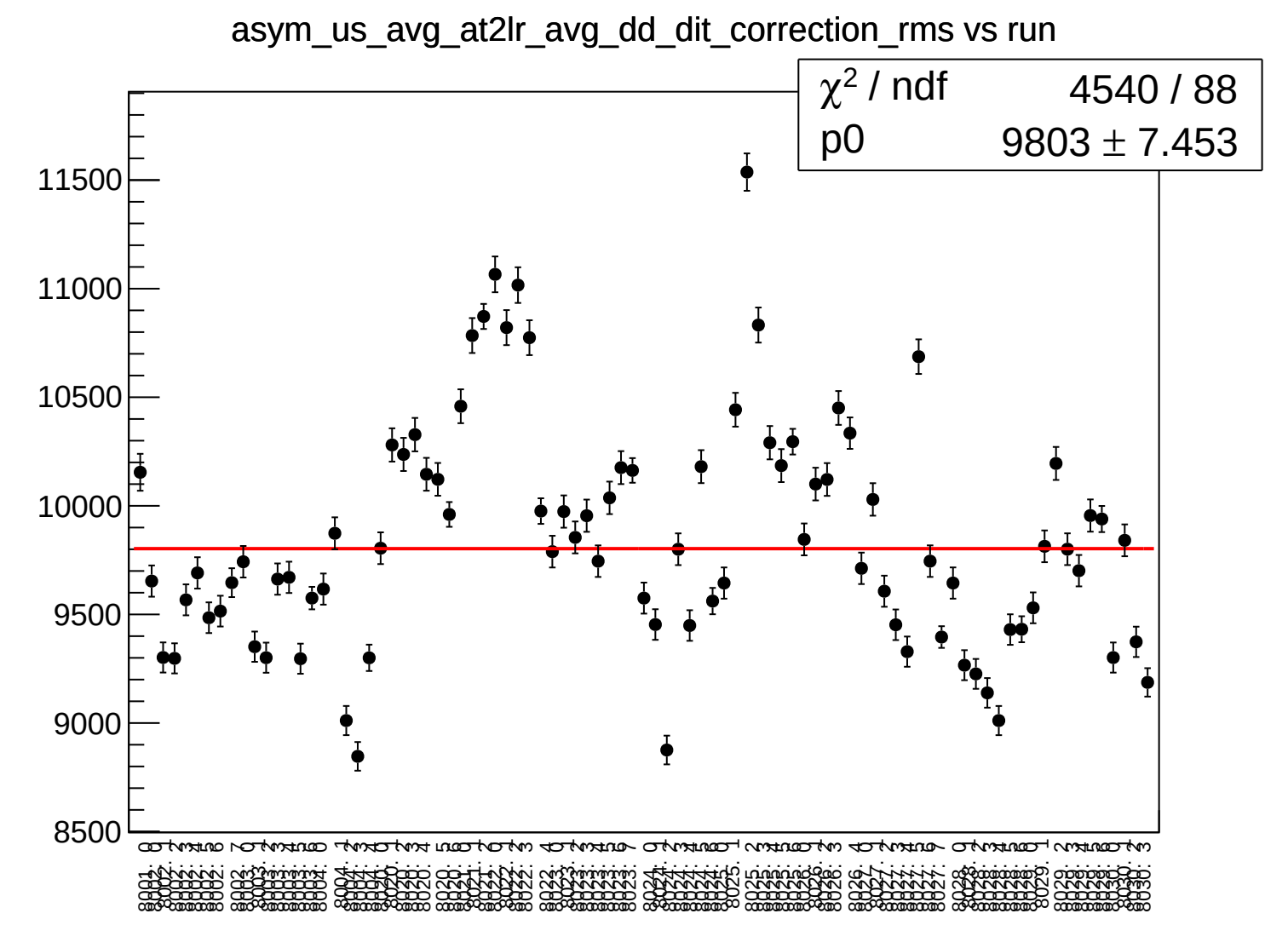

dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 80.22 / 88
p0 −2854 ± 1835
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −778.7
Std Dev 0
2
1
0
−1
−2

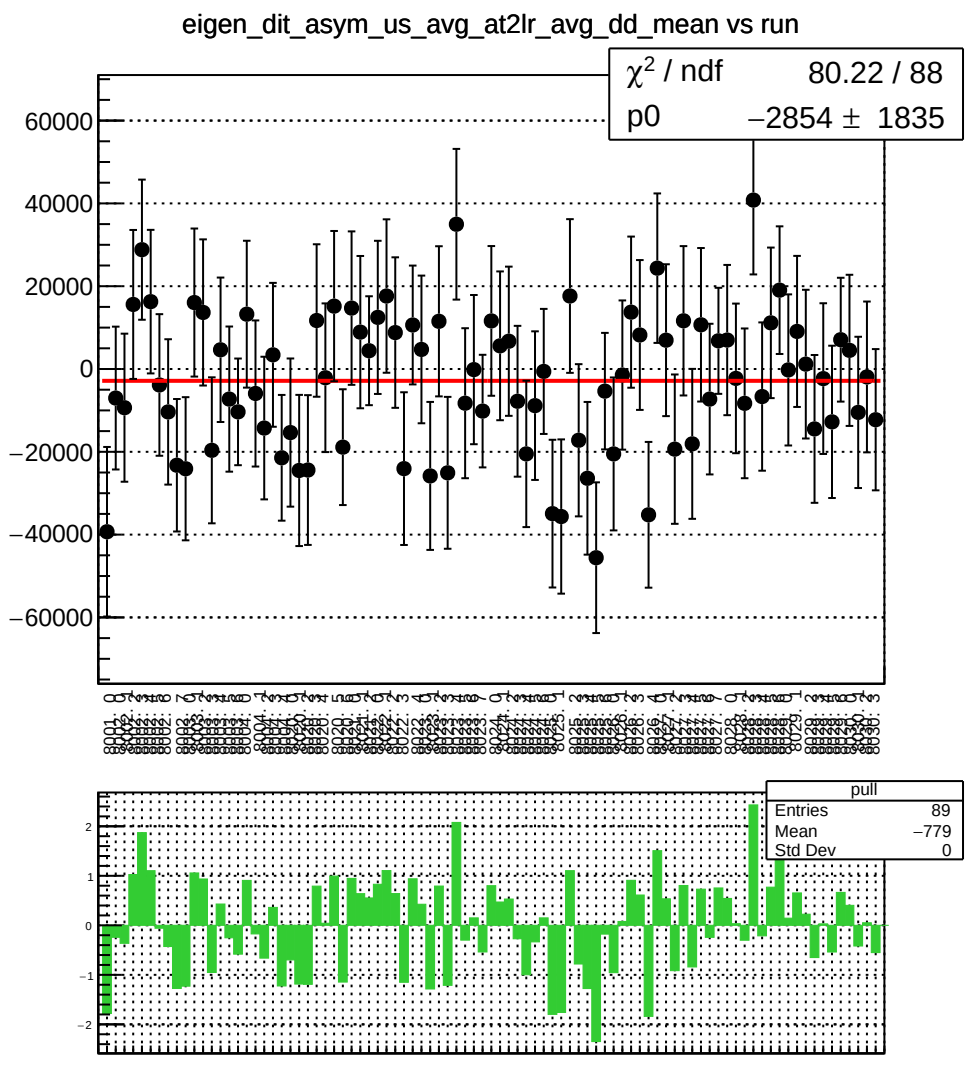

pull1D
Entries 89
Mean −0.001776
Std Dev 0.9494
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

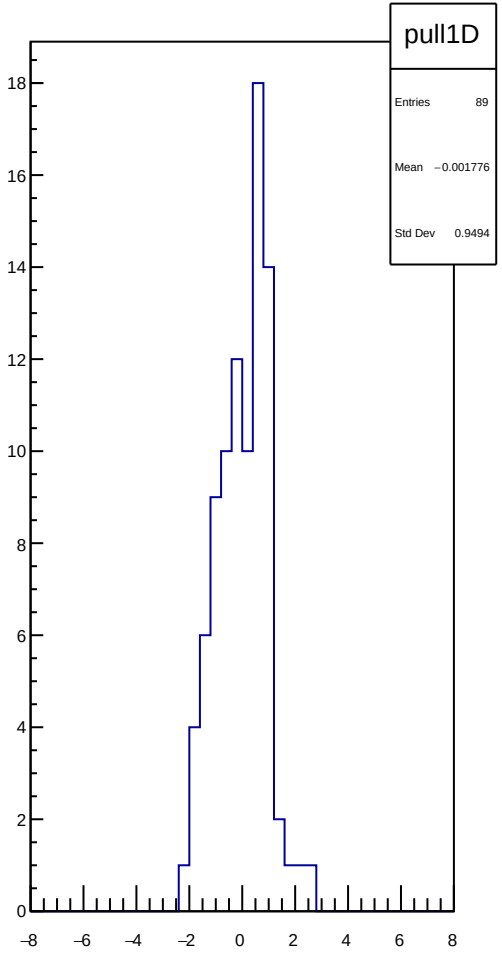

dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 736.4 / 88
p0 1709 ± 1.298
1800
1750
1700
1650
1600

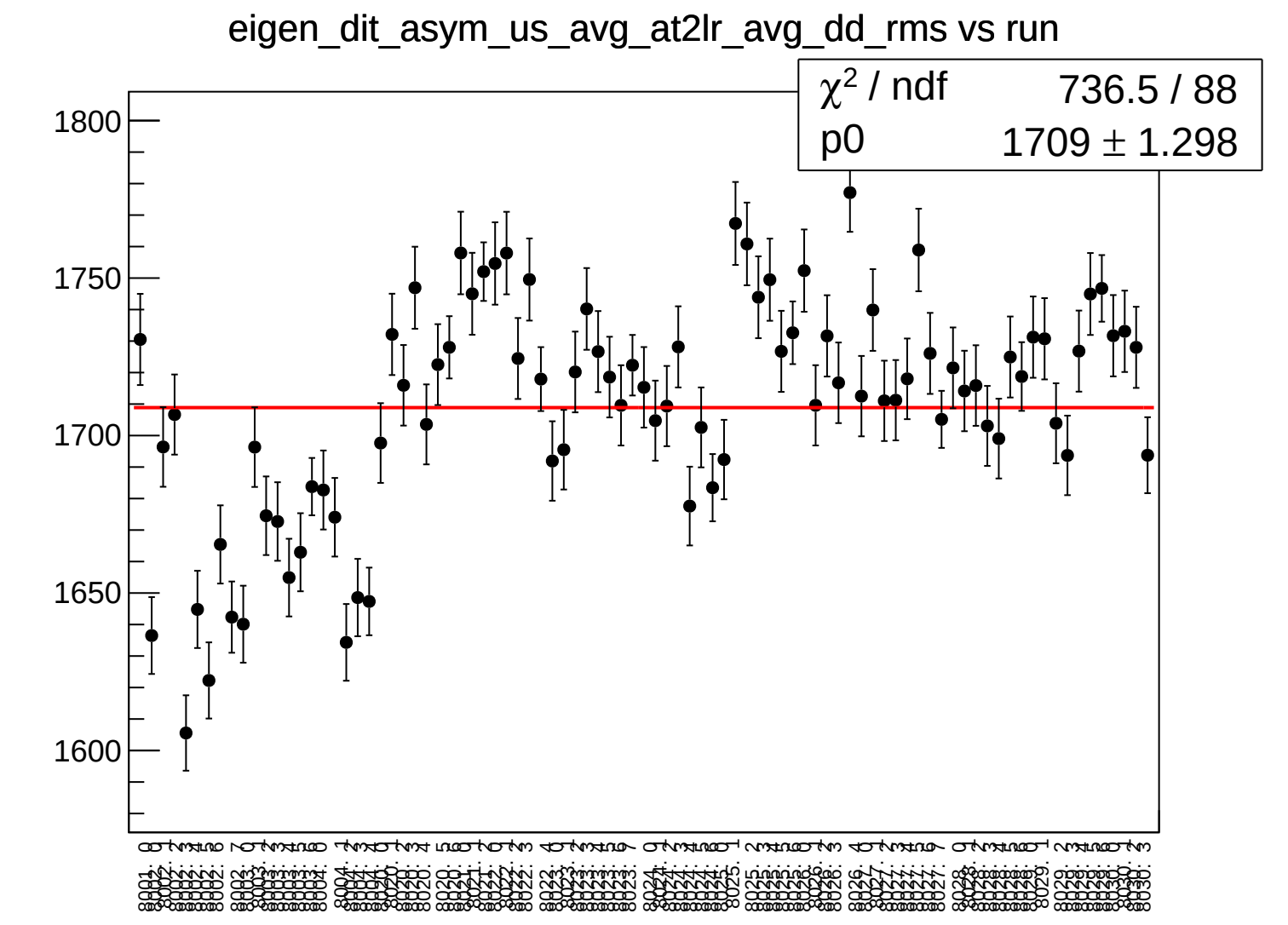

asym_us_avg_at2lr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 96.83 / 88
p0 −1407 ± 1.054e+04
pull
Entries 89
Mean 153.5
Std Dev 0

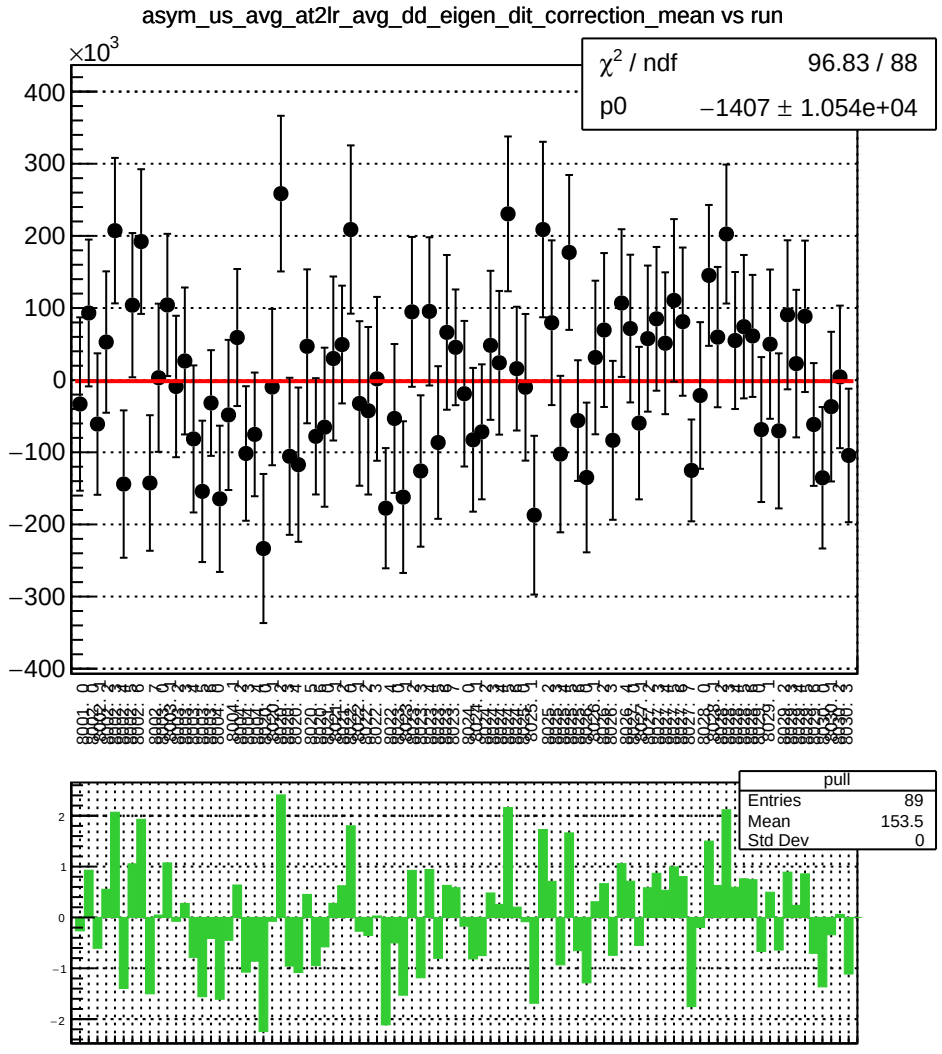

pull1D
Entries 89
Mean 0.02418
Std Dev 1.043

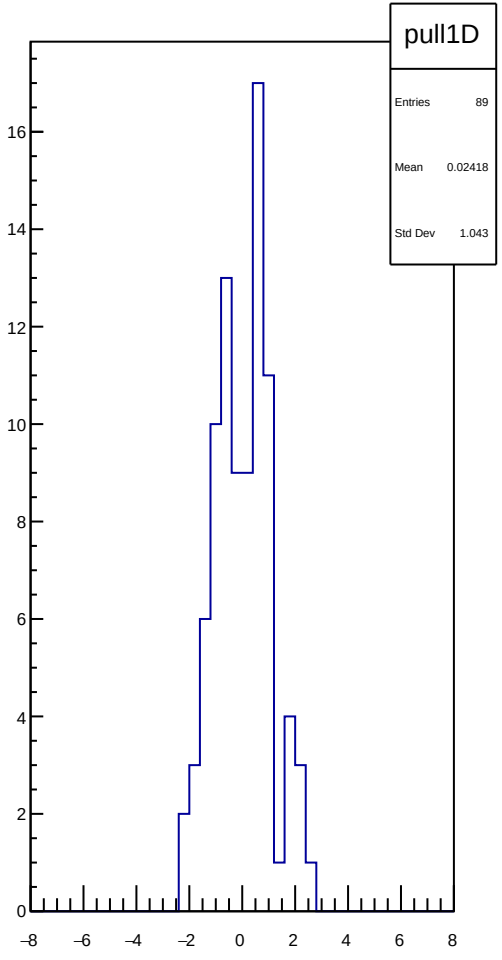

asym_us_avg_at2lr_avg_dd_dit_correction_rms vs run
χ² / ndf 4540 / 88
p0 9803 ± 7.453
11500
11000
10500
10000
9500
9000
8500

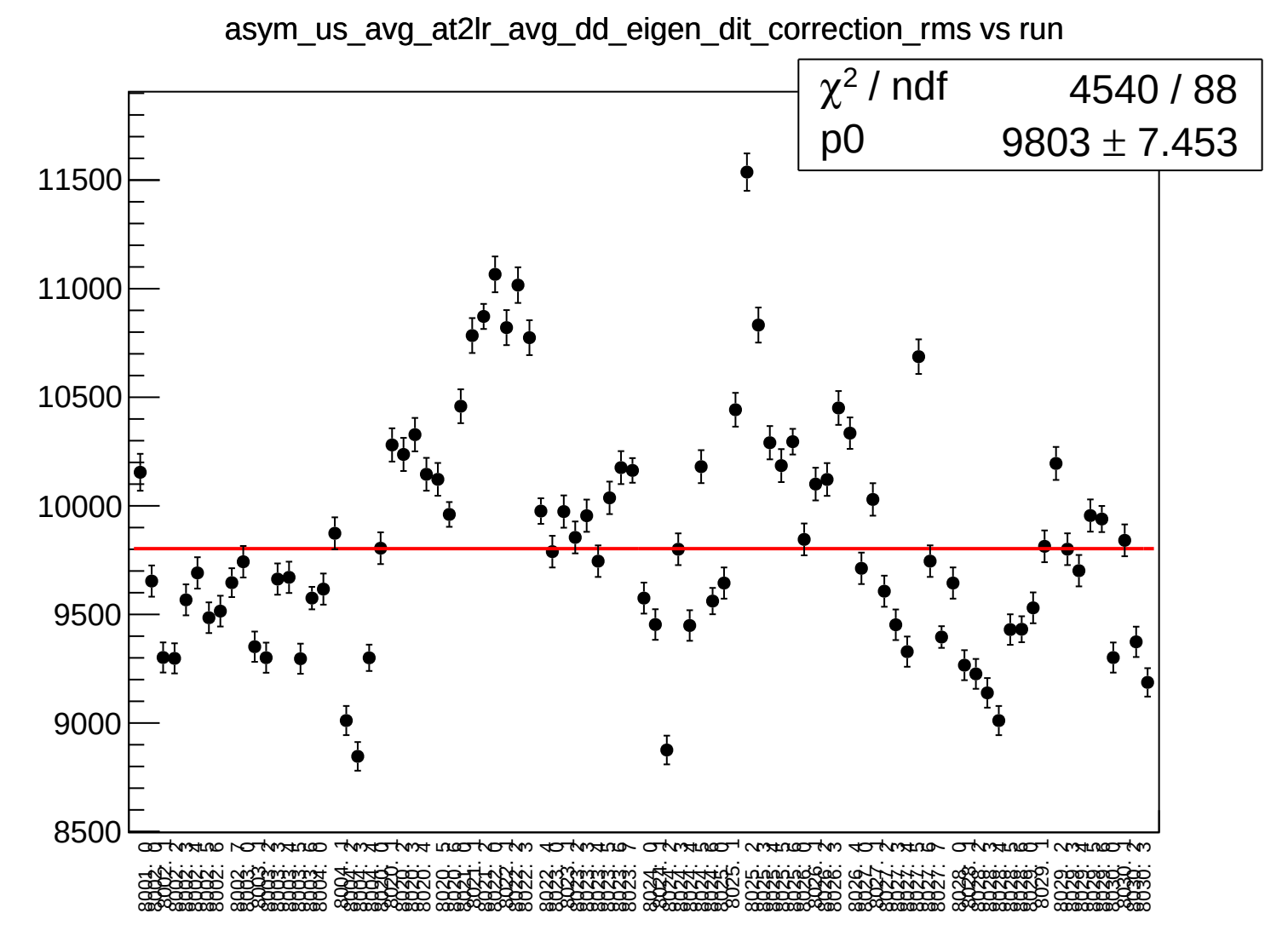

eigen_dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 80.22 / 88
p0 −2854 ± 1835
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −779
Std Dev 0
2
1
0
−1
−2

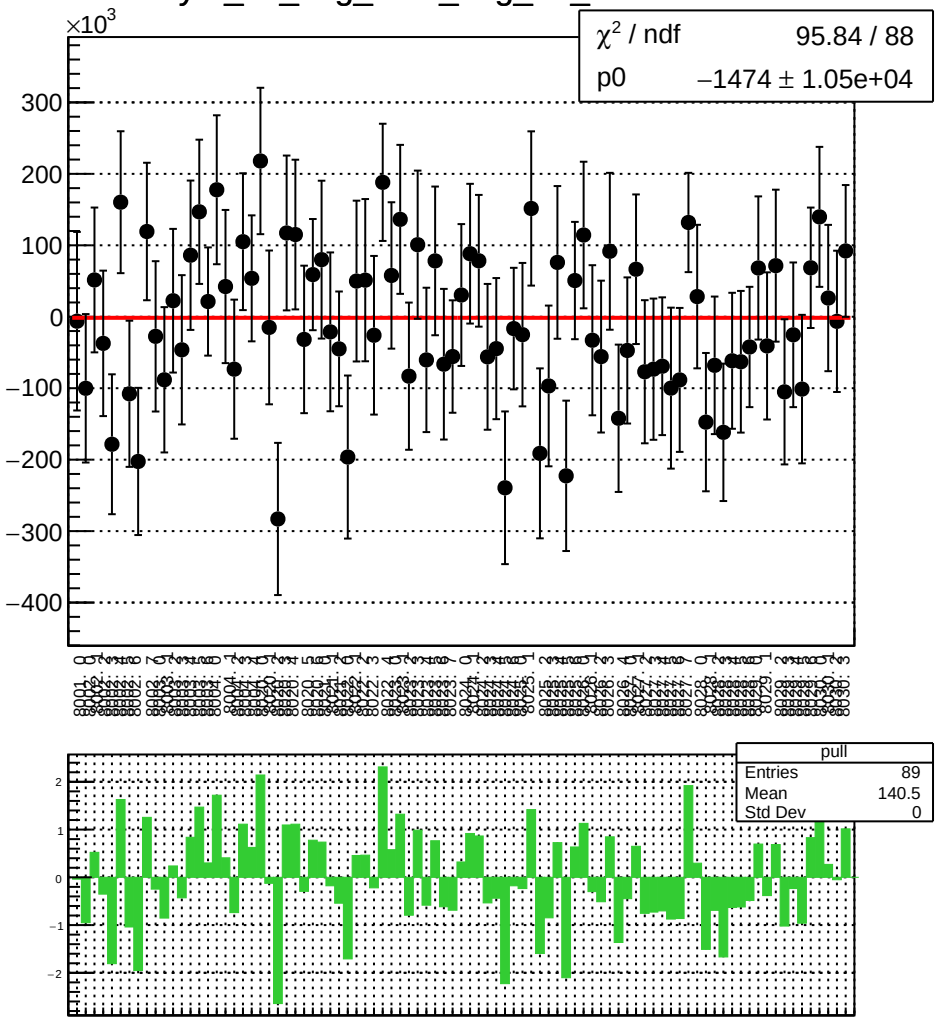

pull1D
Entries 89
Mean −0.001776
Std Dev 0.9494
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

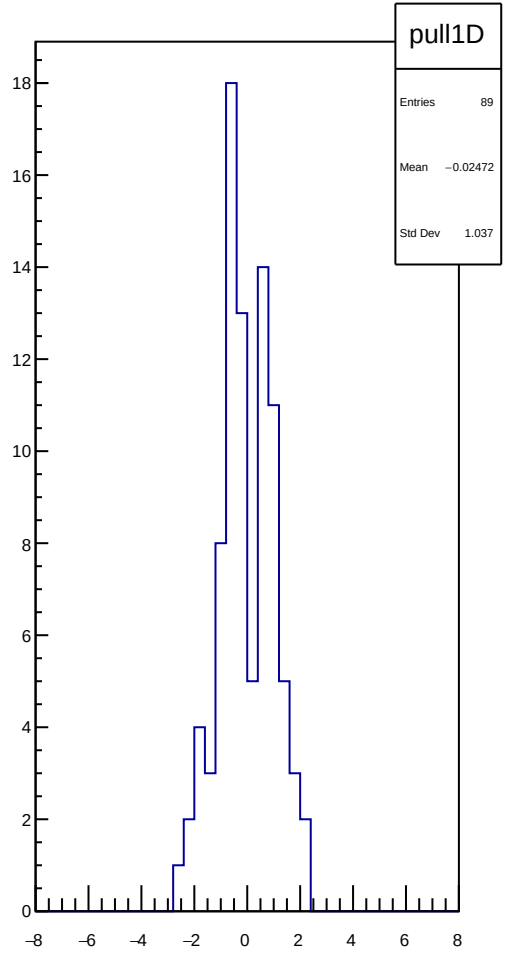

eigen_dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 736.5 / 88
p0 1709 ± 1.298
1800
1750
1700
1650
1600

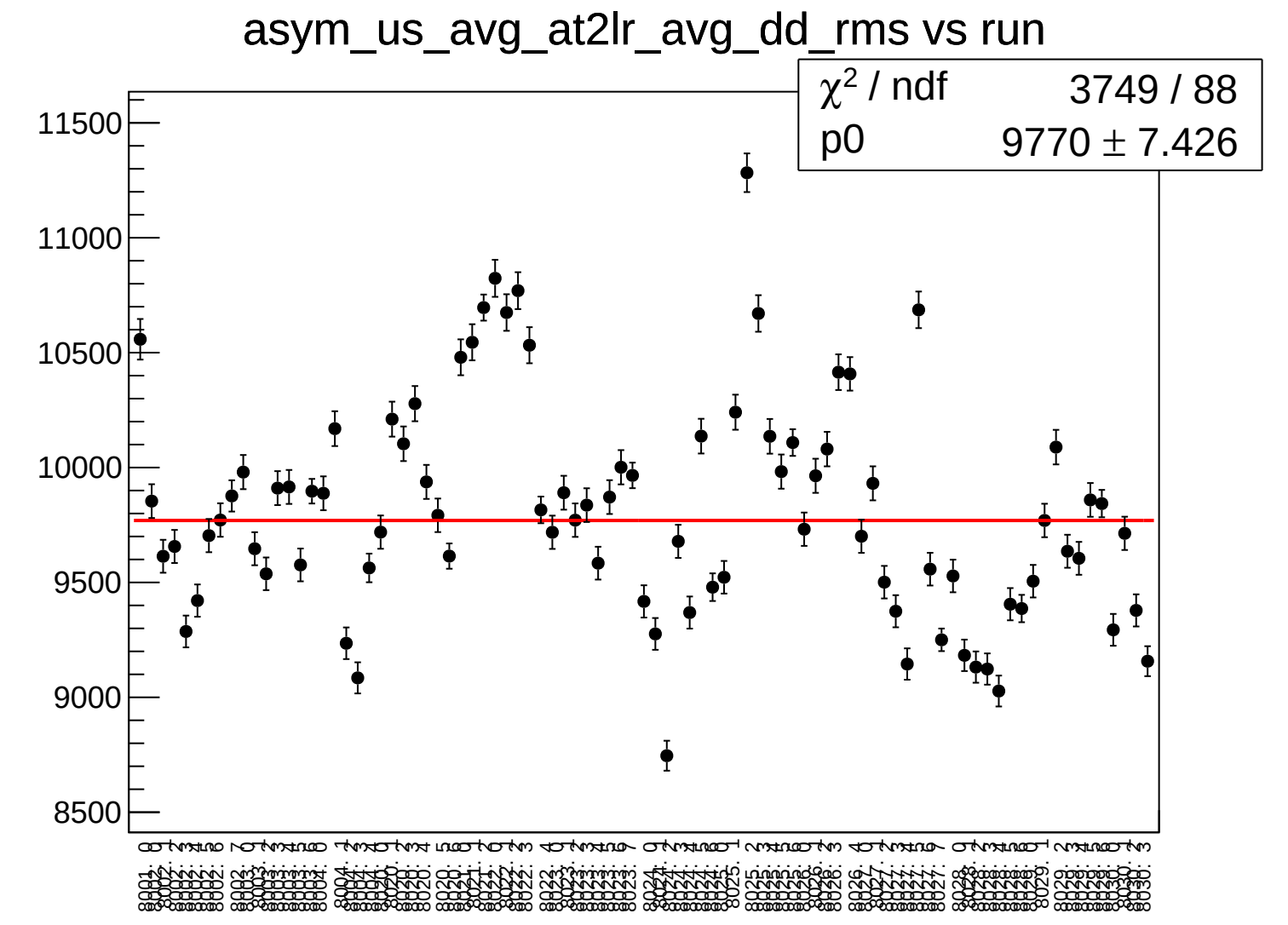

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 96.83 / 88
p0 −1407 ± 1.054e+04
pull
Entries 89
Mean 153.5
Std Dev 0

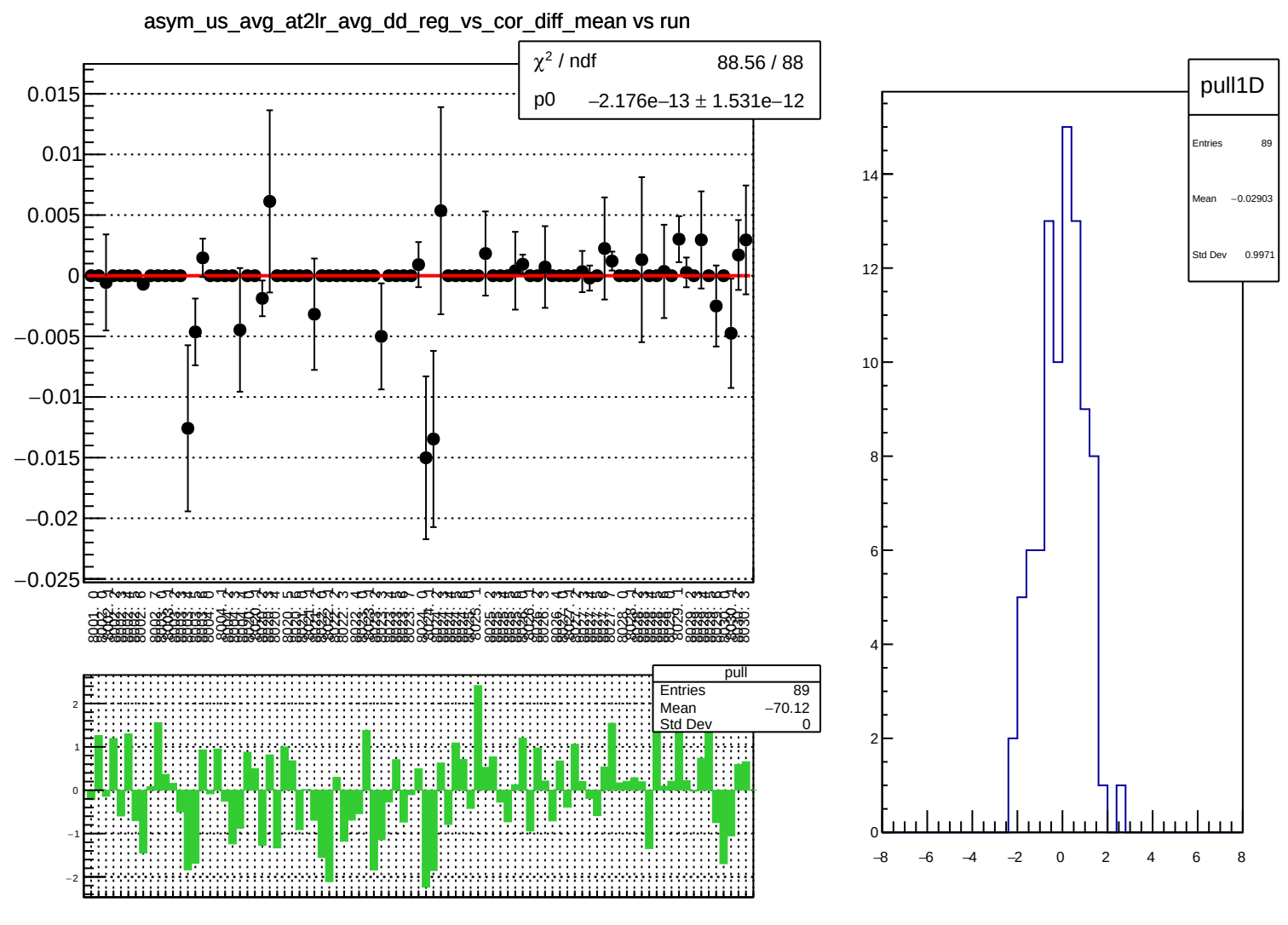

pull1D
Entries 89
Mean 0.02418
Std Dev 1.043

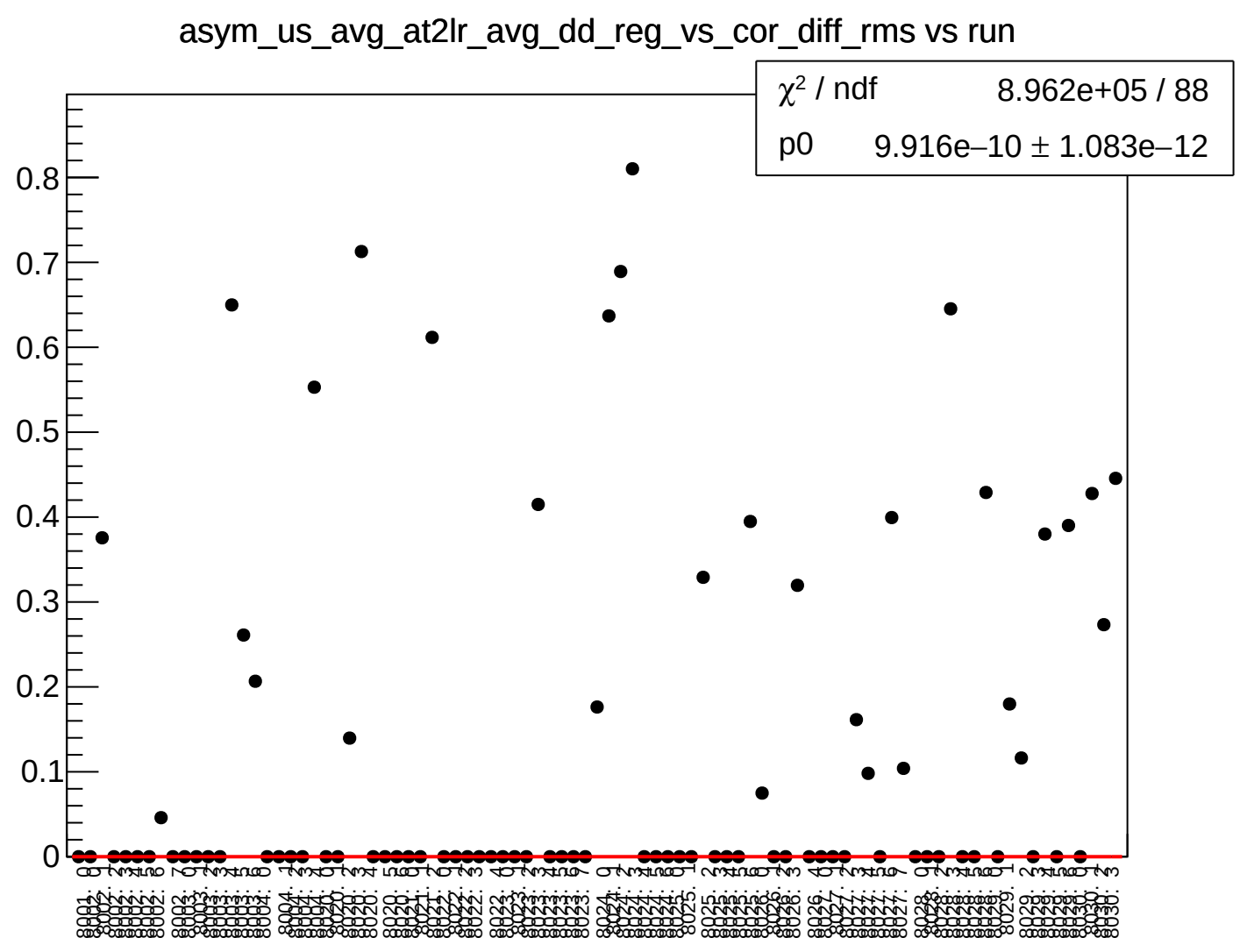

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 4540 / 88
p0 9803 ± 7.453
11500
11000
10500
10000
9500
9000
8500

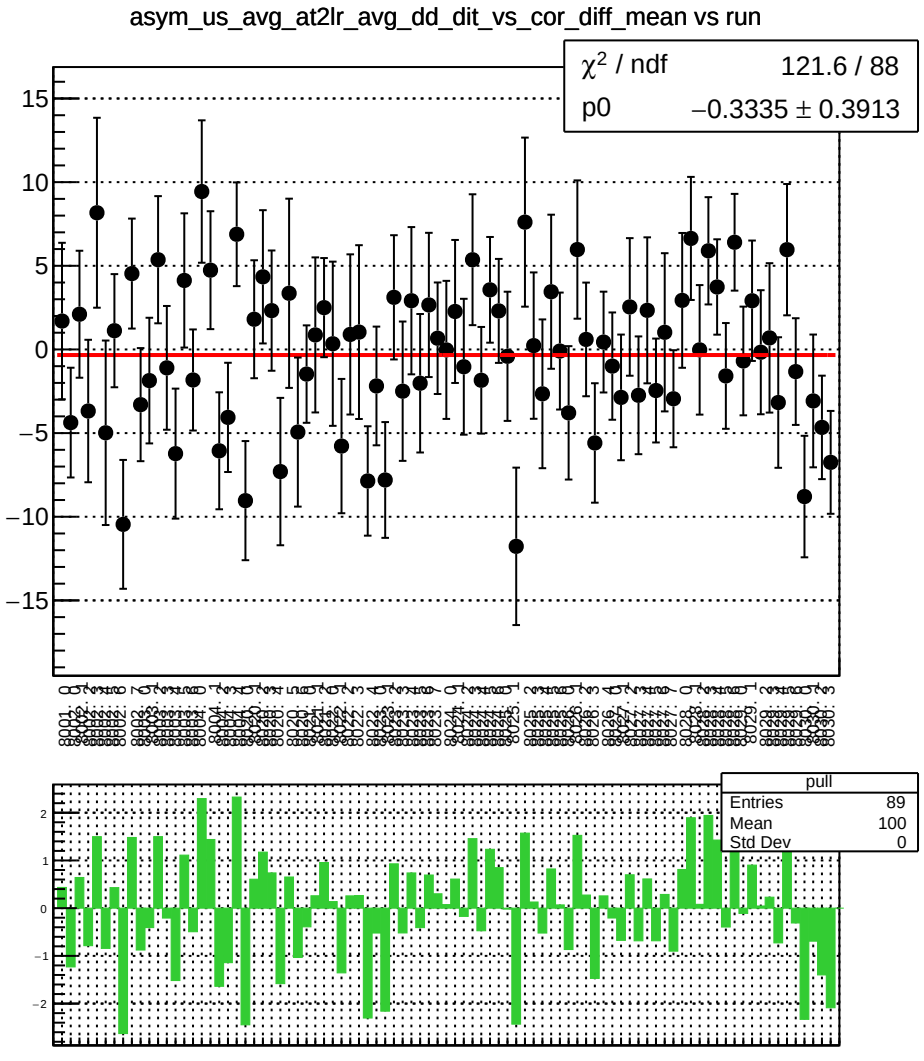

asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ² / ndf 95.84 / 88
p0 −1474 ± 1.05e+04
300
200
100
0
−100
−200
−300
−400
pull
Entries 89
Mean 140.5
Std Dev 0
2
1
0
−1
−2

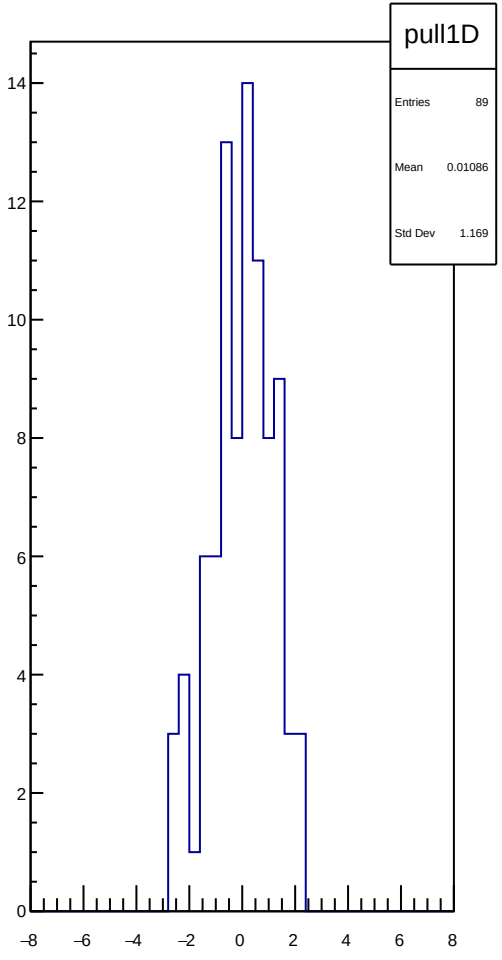

pull1D
Entries 89
Mean −0.02472
Std Dev 1.037
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

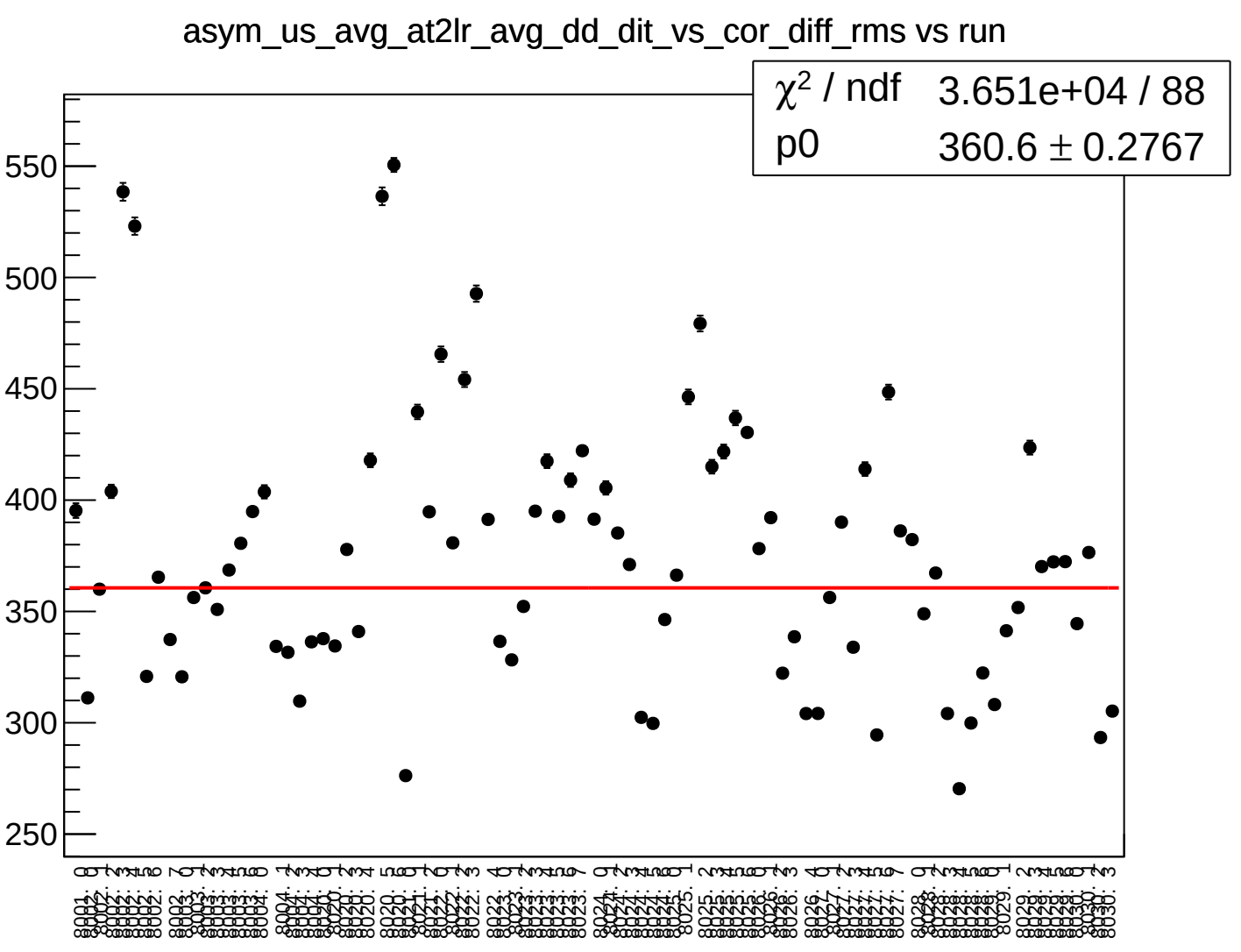

asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 3749 / 88
p0 9770 ± 7.426
11500
11000
10500
10000
9500
9000
8500

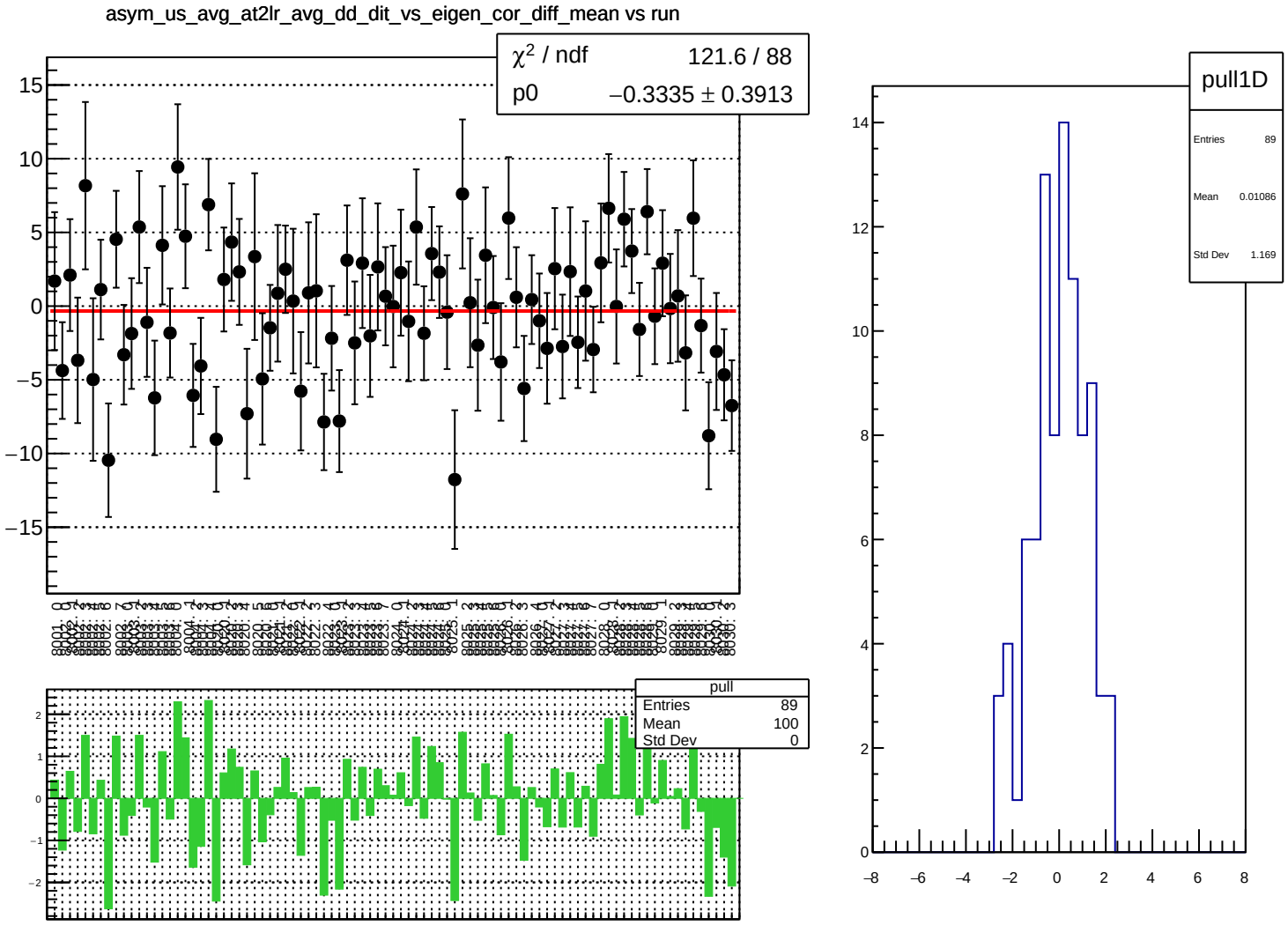

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 88.56 / 88
p0 −2.176e−13 ± 1.531e−12
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
−0.025
pull
Entries 89
Mean −70.12
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.02903
Std Dev 0.9971
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

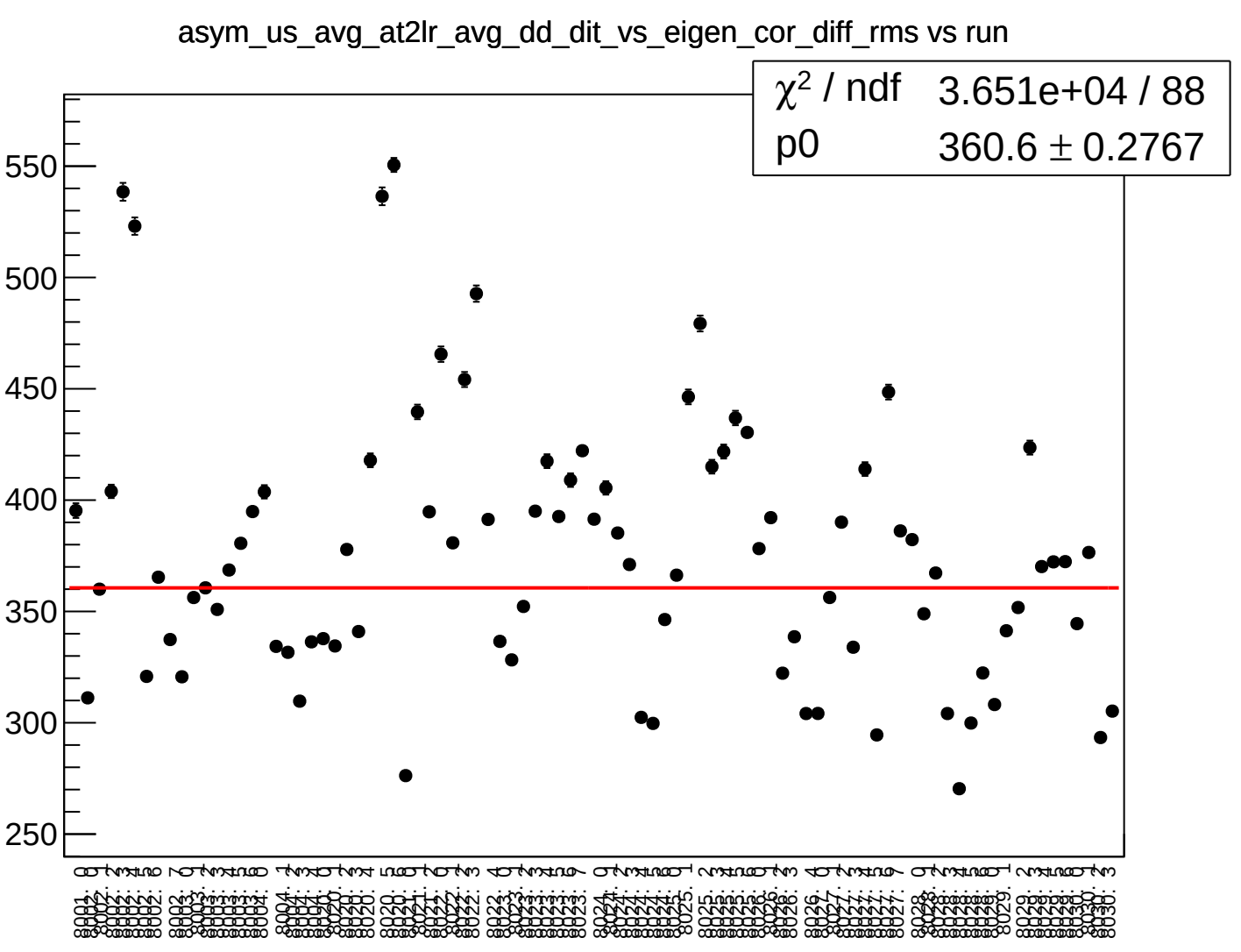

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.962e+05 / 88
p0 9.916e−10 ± 1.083e−12
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

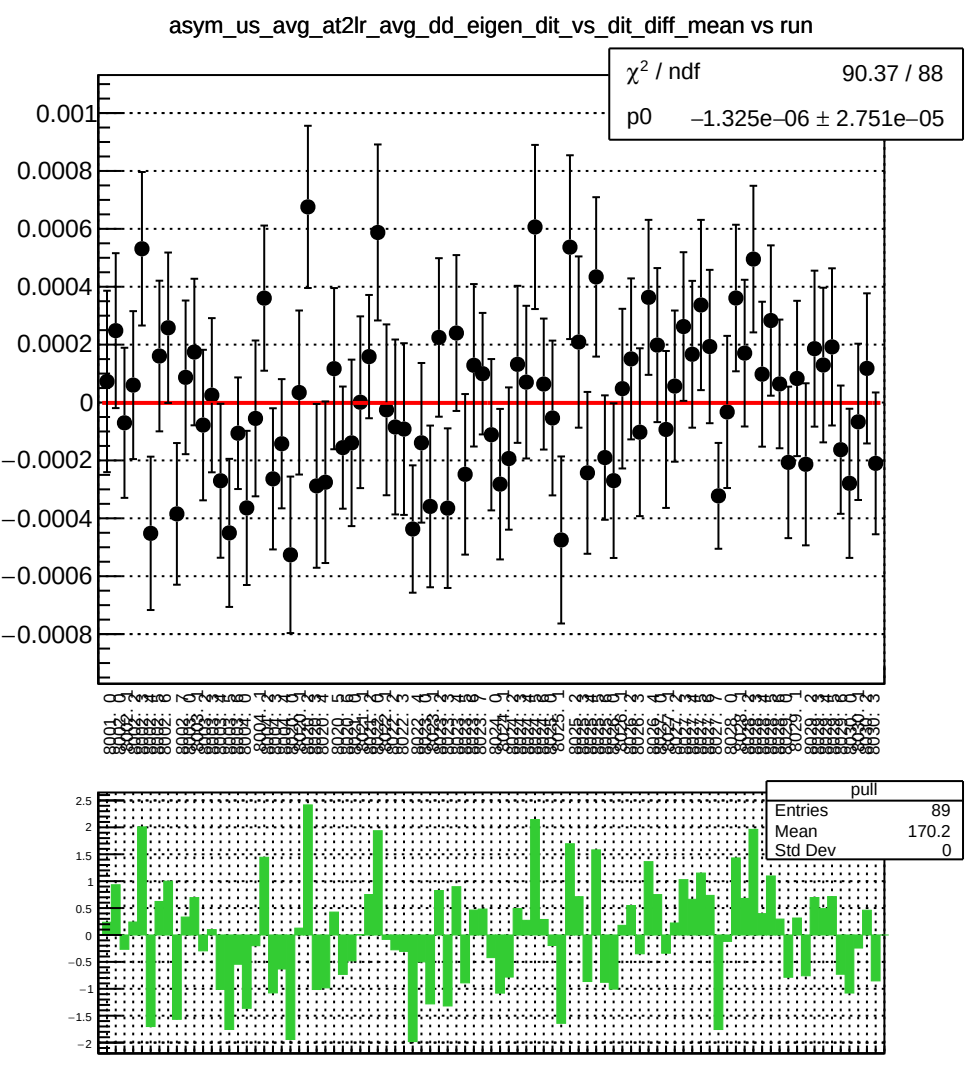

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 121.6 / 88
p0 −0.3335 ± 0.3913
pull
Entries 89
Mean 100
Std Dev 0

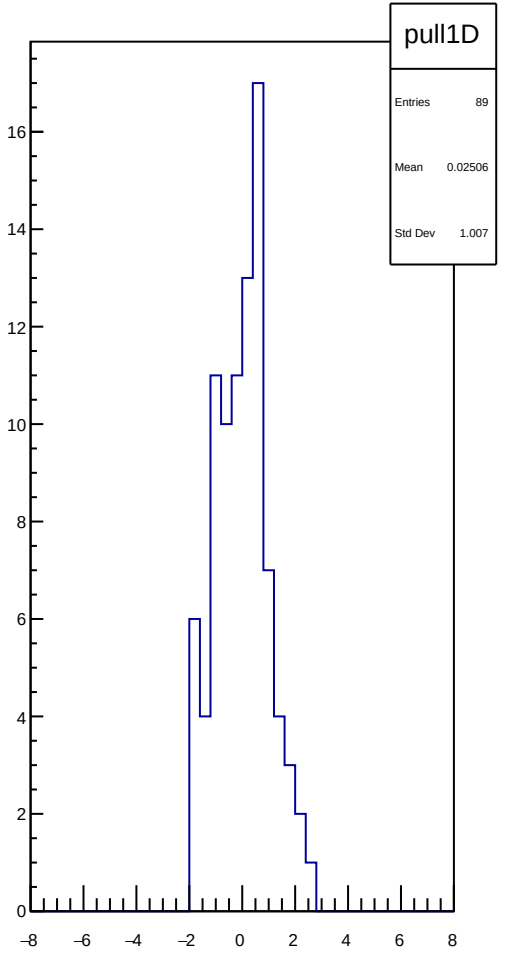

pull1D
Entries 89
Mean 0.01086
Std Dev 1.169

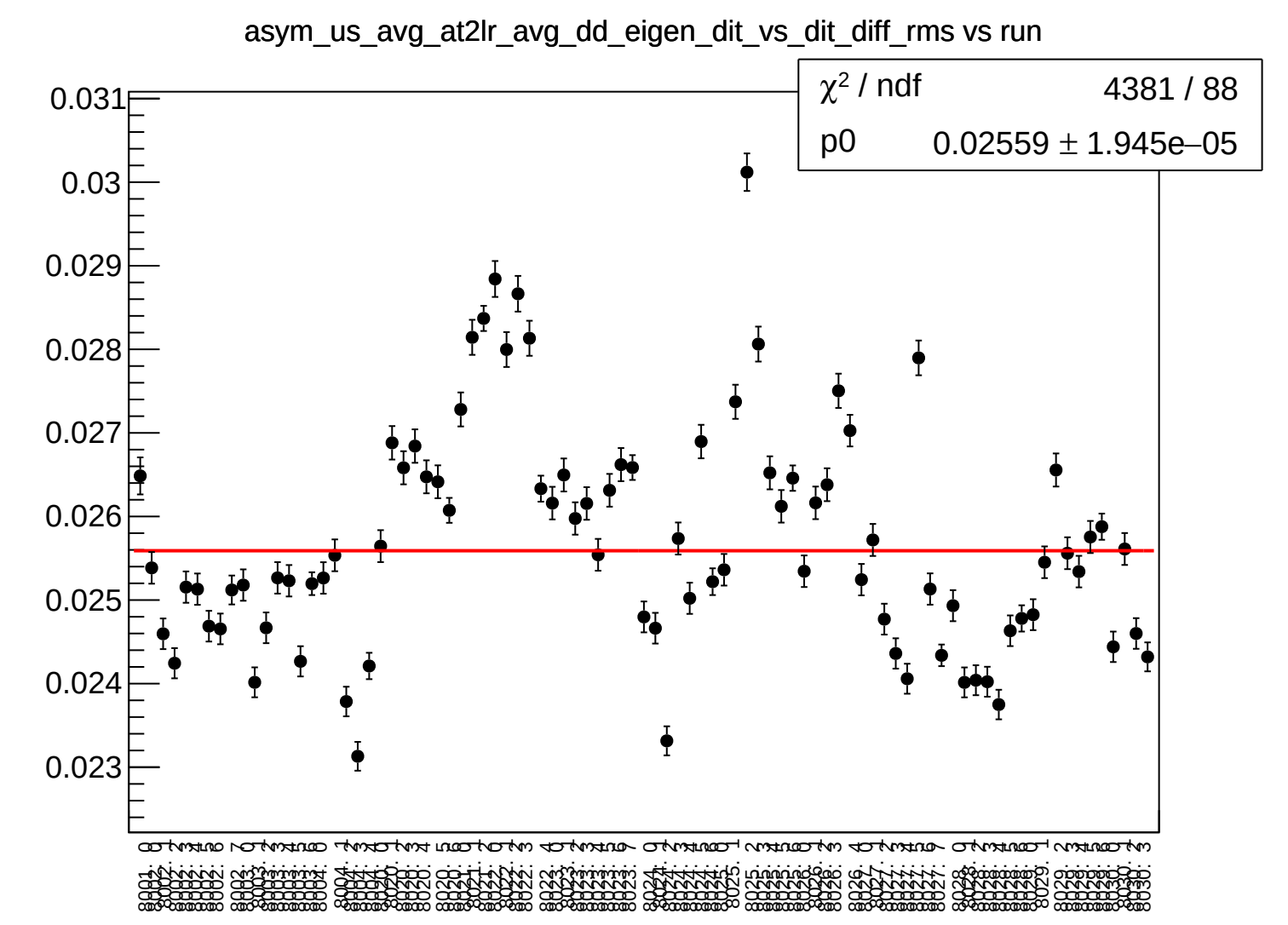

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.651e+04 / 88
p0 360.6 ± 0.2767
550
500
450
400
350
300
250

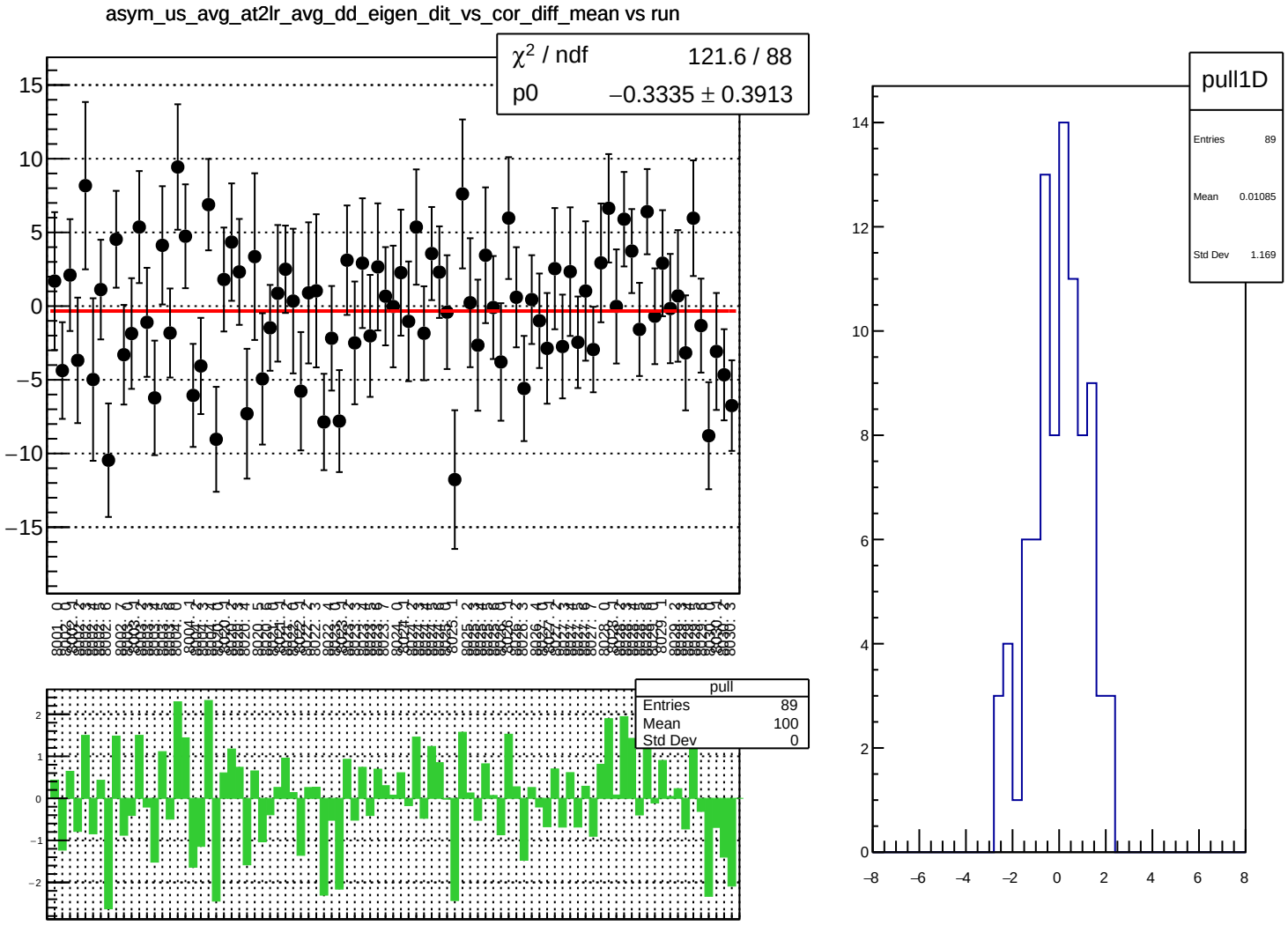

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 121.6 / 88
p0 −0.3335 ± 0.3913
pull
Entries 89
Mean 100
Std Dev 0
pull1D
Entries 89
Mean 0.01086
Std Dev 1.169

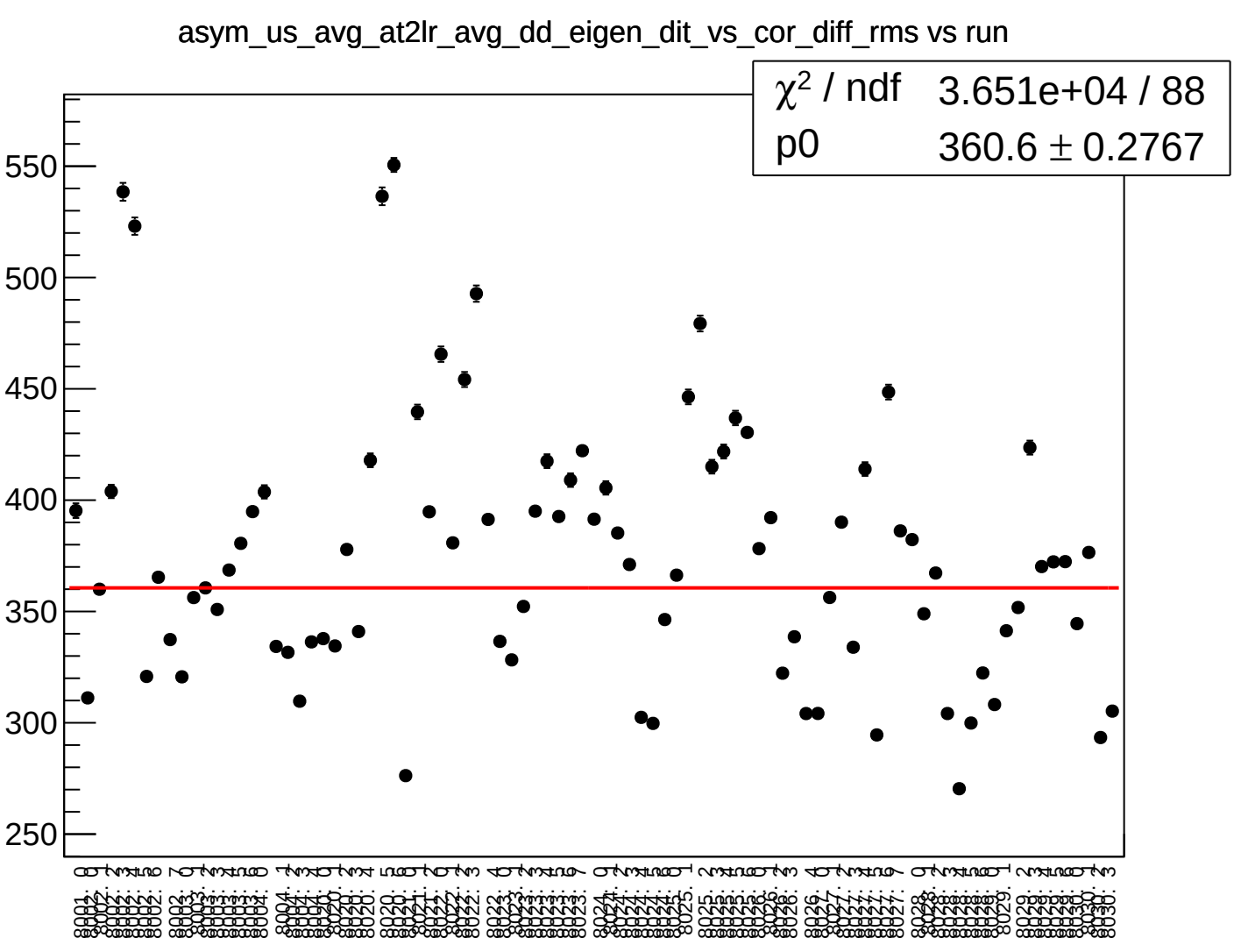

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.651e+04 / 88
p0 360.6 ± 0.2767
550
500
450
400
350
300
250

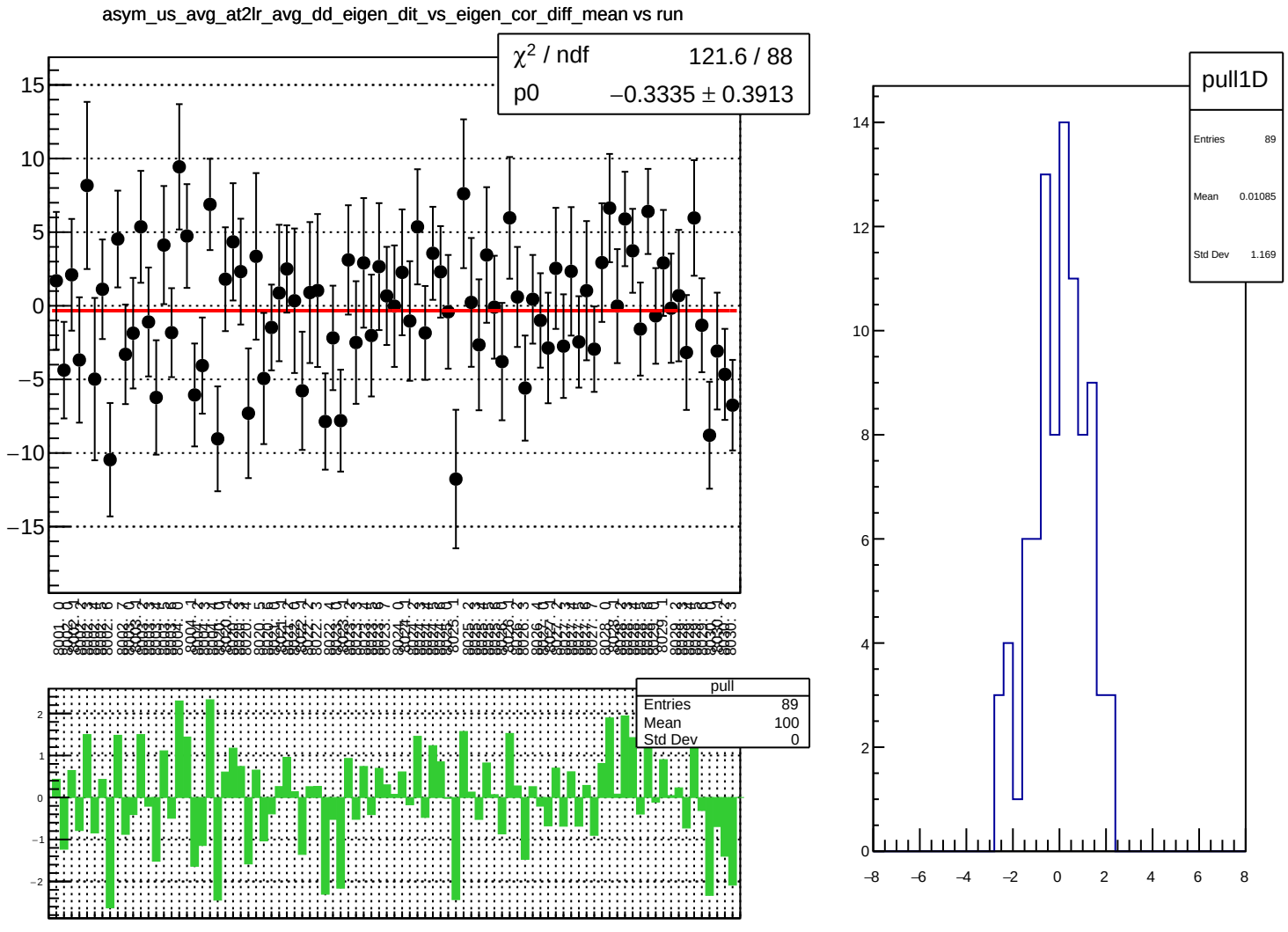

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 90.37 / 88
p0 −1.325e−06 ± 2.751e−05
pull
Entries 89
Mean 170.2
Std Dev 0

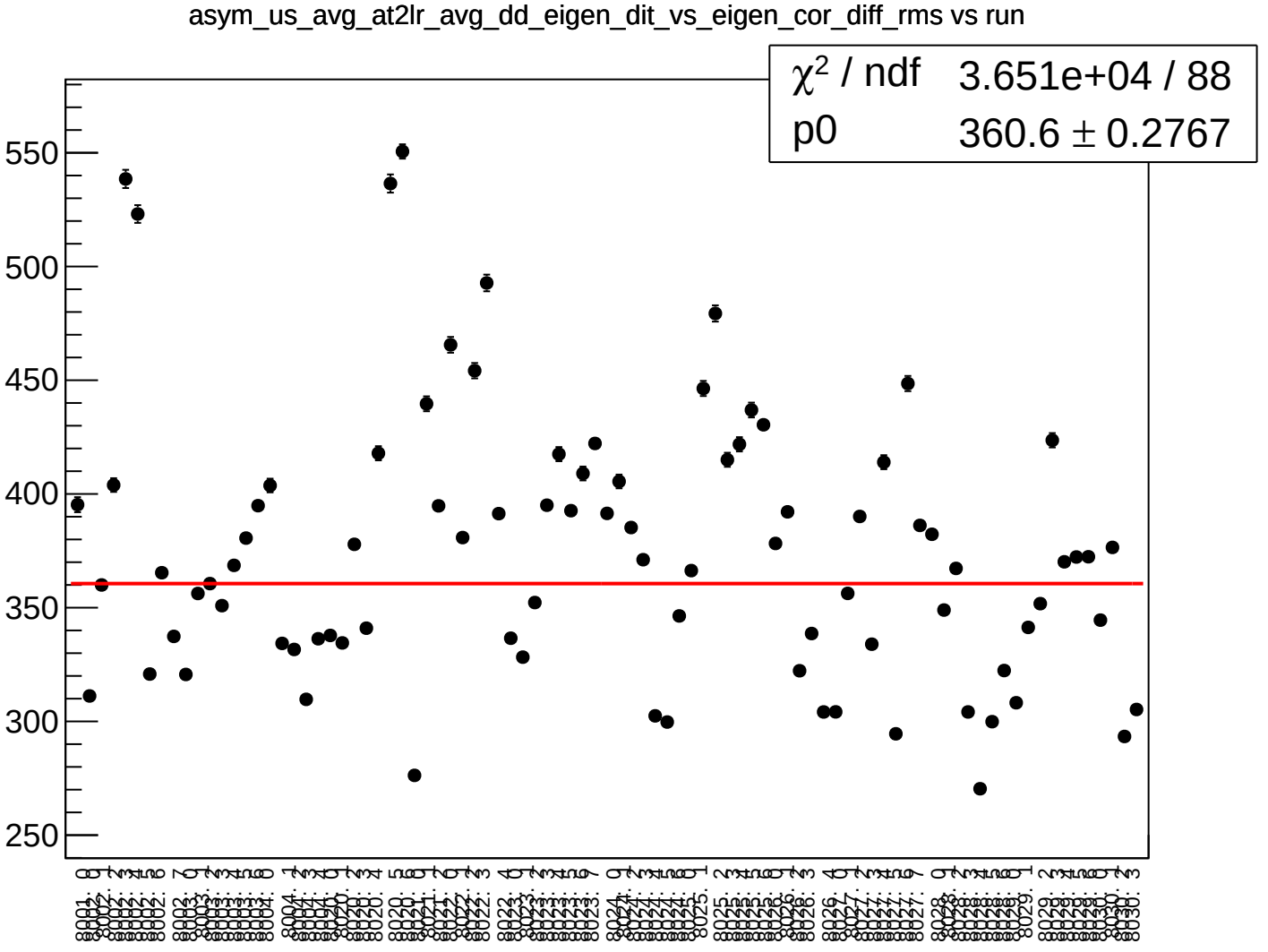

pull1D
Entries 89
Mean 0.02506
Std Dev 1.007

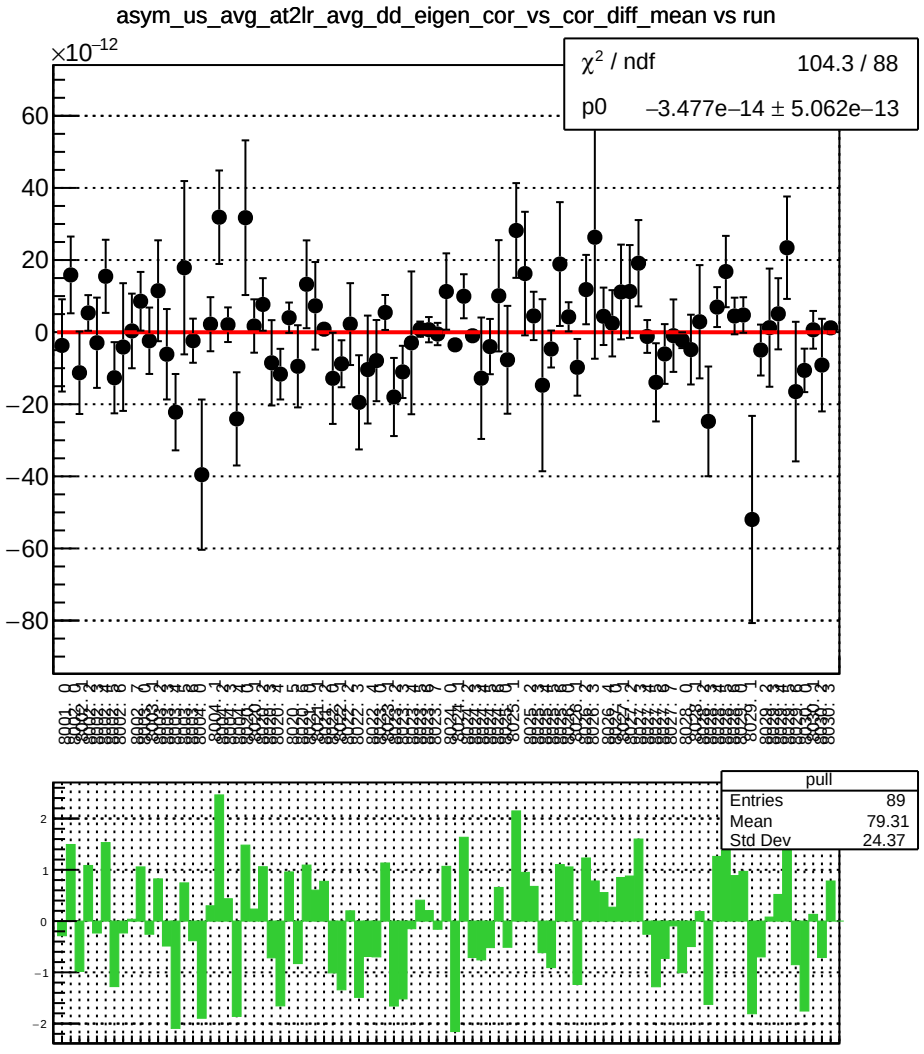

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4381 / 88
p0 0.02559 ± 1.945e−05
0.031
0.03
0.029
0.028
0.027
0.026
0.025
0.024
0.023

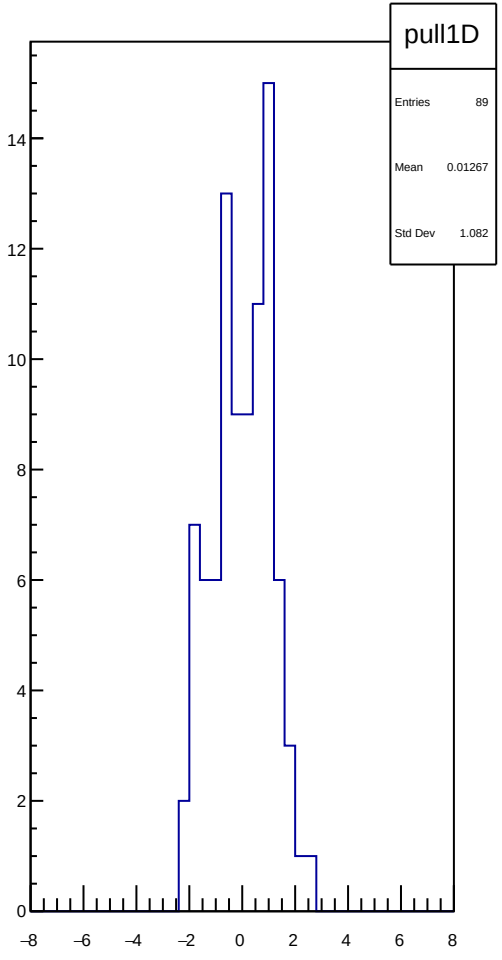

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 121.6 / 88
p0 −0.3335 ± 0.3913
pull
Entries 89
Mean 100
Std Dev 0
pull1D
Entries 89
Mean 0.01085
Std Dev 1.169

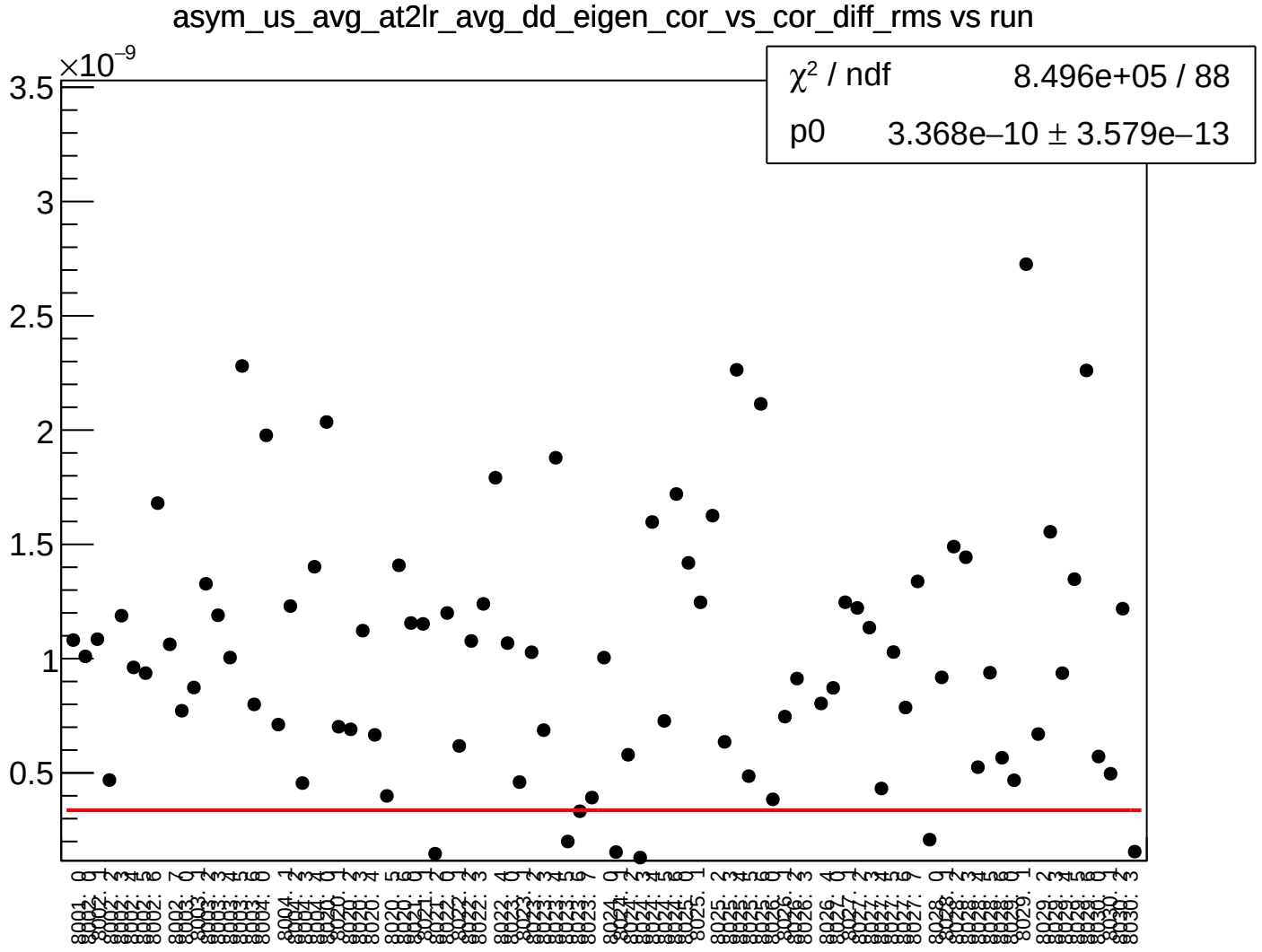

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.651e+04 / 88
p0 360.6 ± 0.2767
550
500
450
400
350
300
250

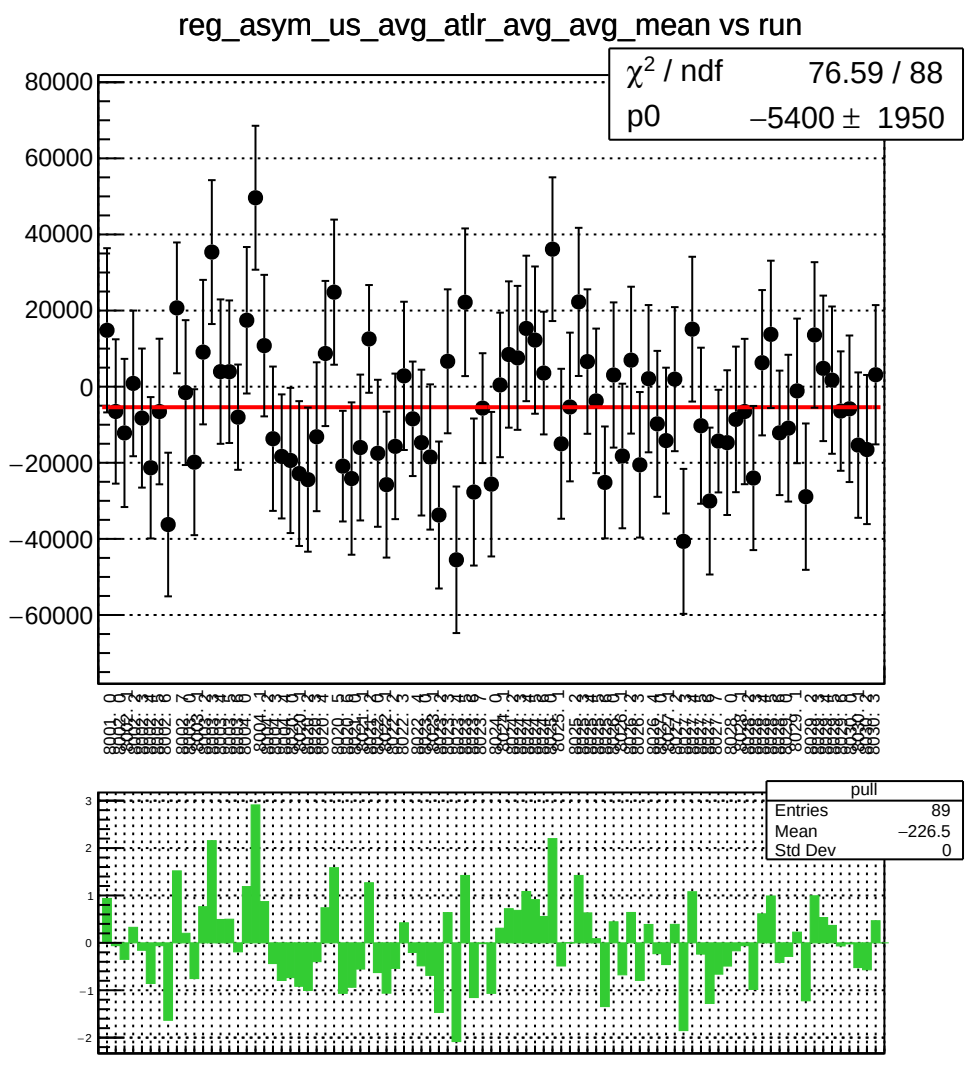

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 121.6 / 88
p0 −0.3335 ± 0.3913
pull
Entries 89
Mean 100
Std Dev 0
pull1D
Entries 89
Mean 0.01085
Std Dev 1.169

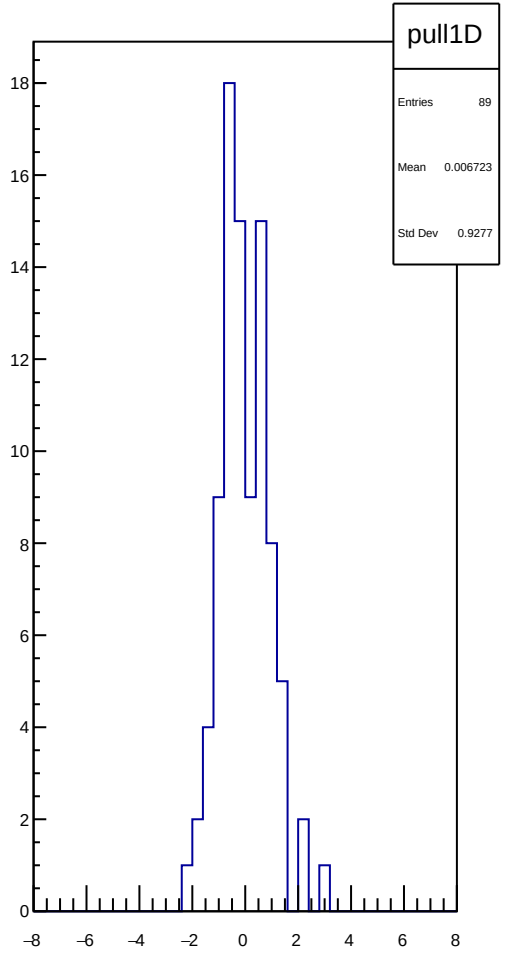

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.651e+04 / 88
p0 360.6 ± 0.2767
550
500
450
400
350
300
250

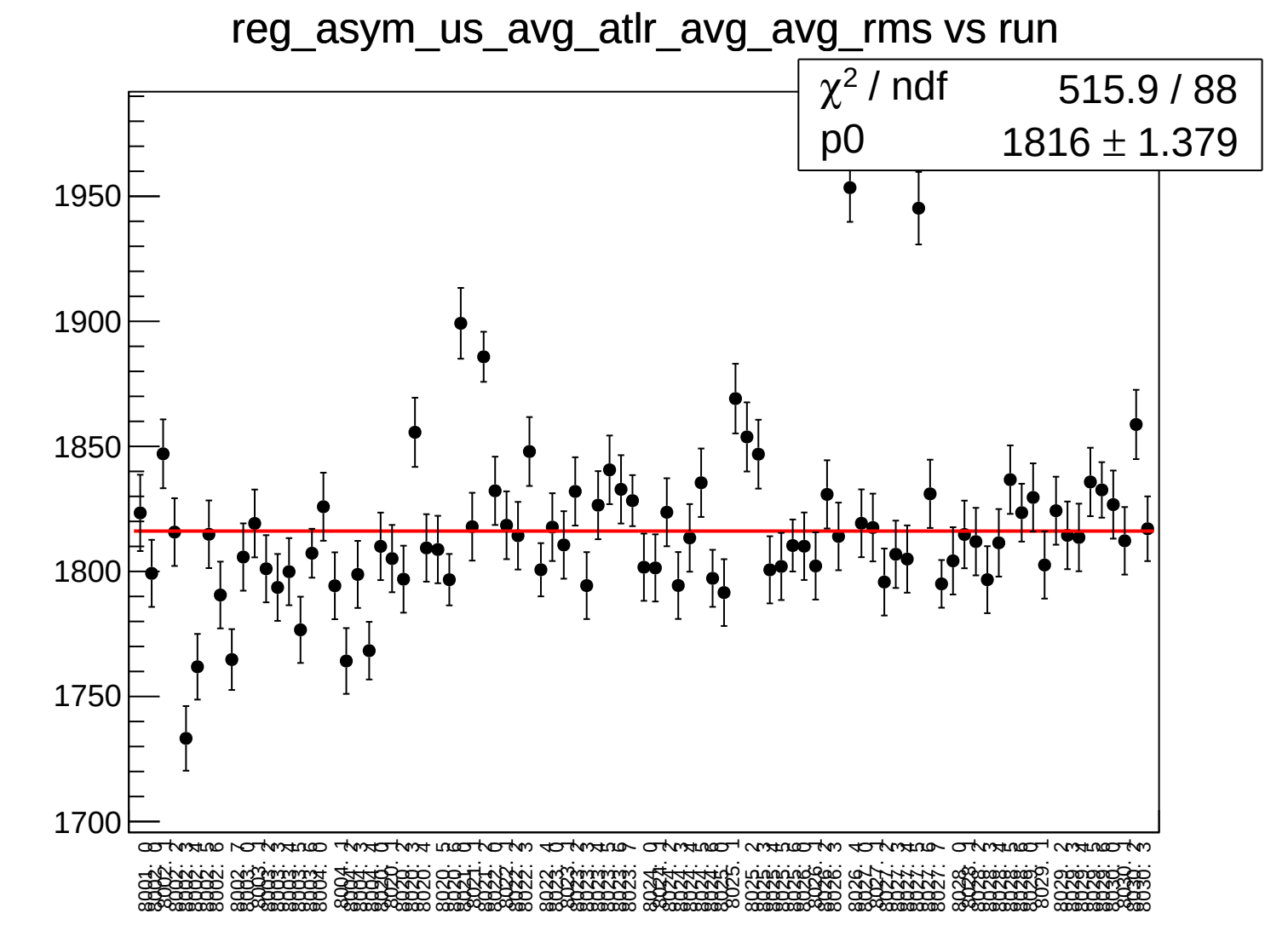

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 104.3 / 88
p0 −3.477e−14 ± 5.062e−13
pull
Entries 89
Mean 79.31
Std Dev 24.37

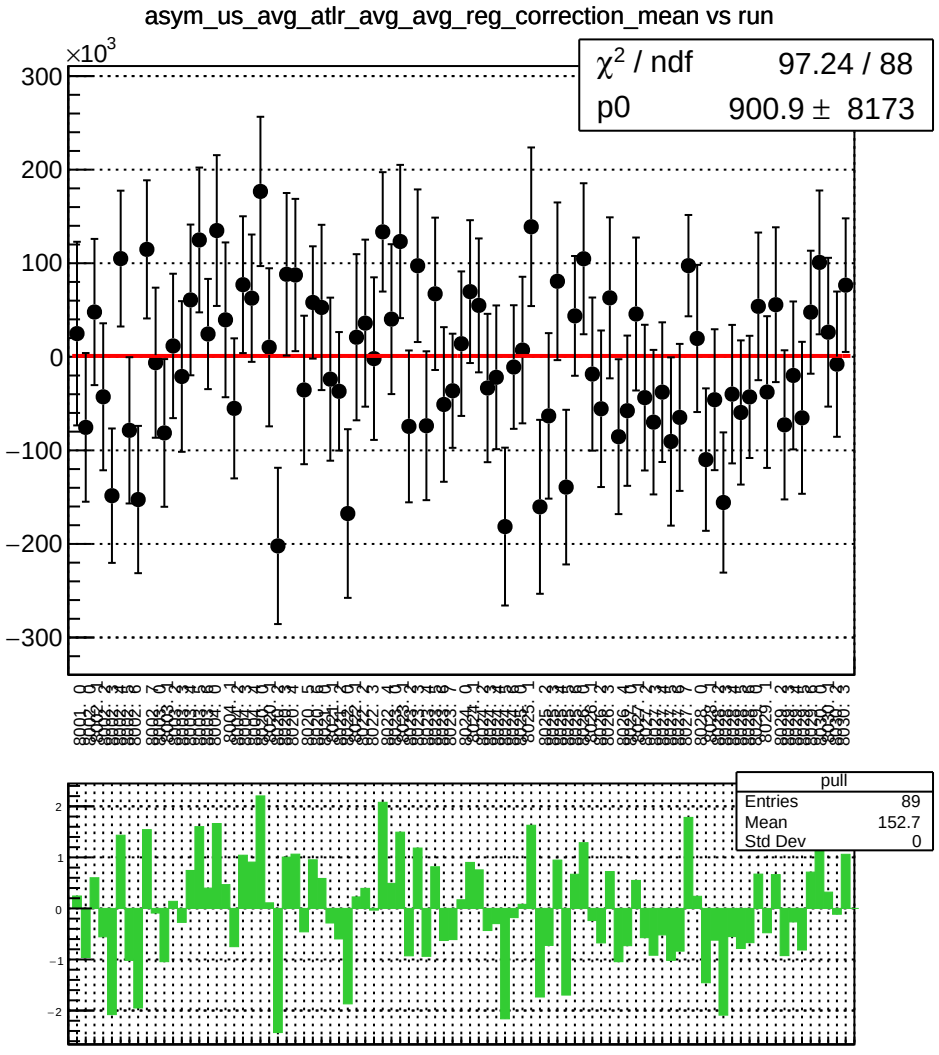

pull1D
Entries 89
Mean 0.01267
Std Dev 1.082

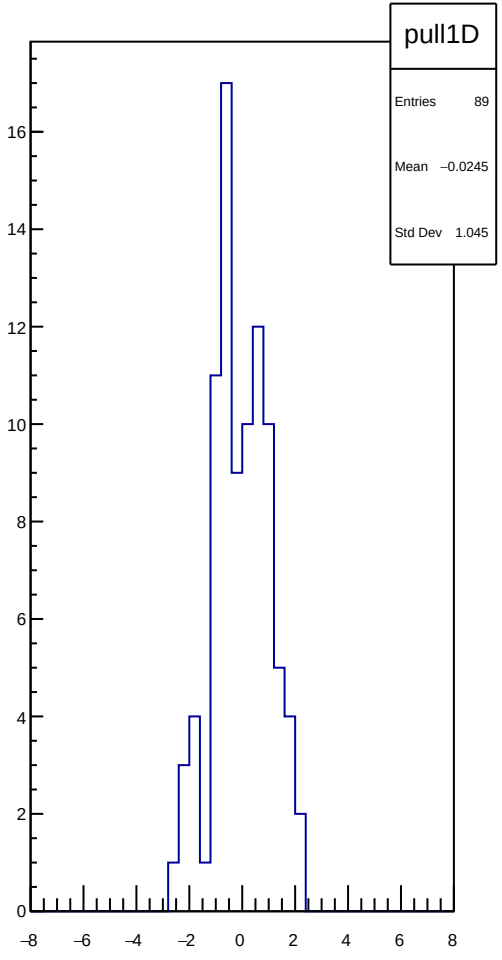

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
3.5
3
2.5
2
1.5
1
0.5
χ² / ndf 8.496e+05 / 88
p0 3.368e−10 ± 3.579e−13

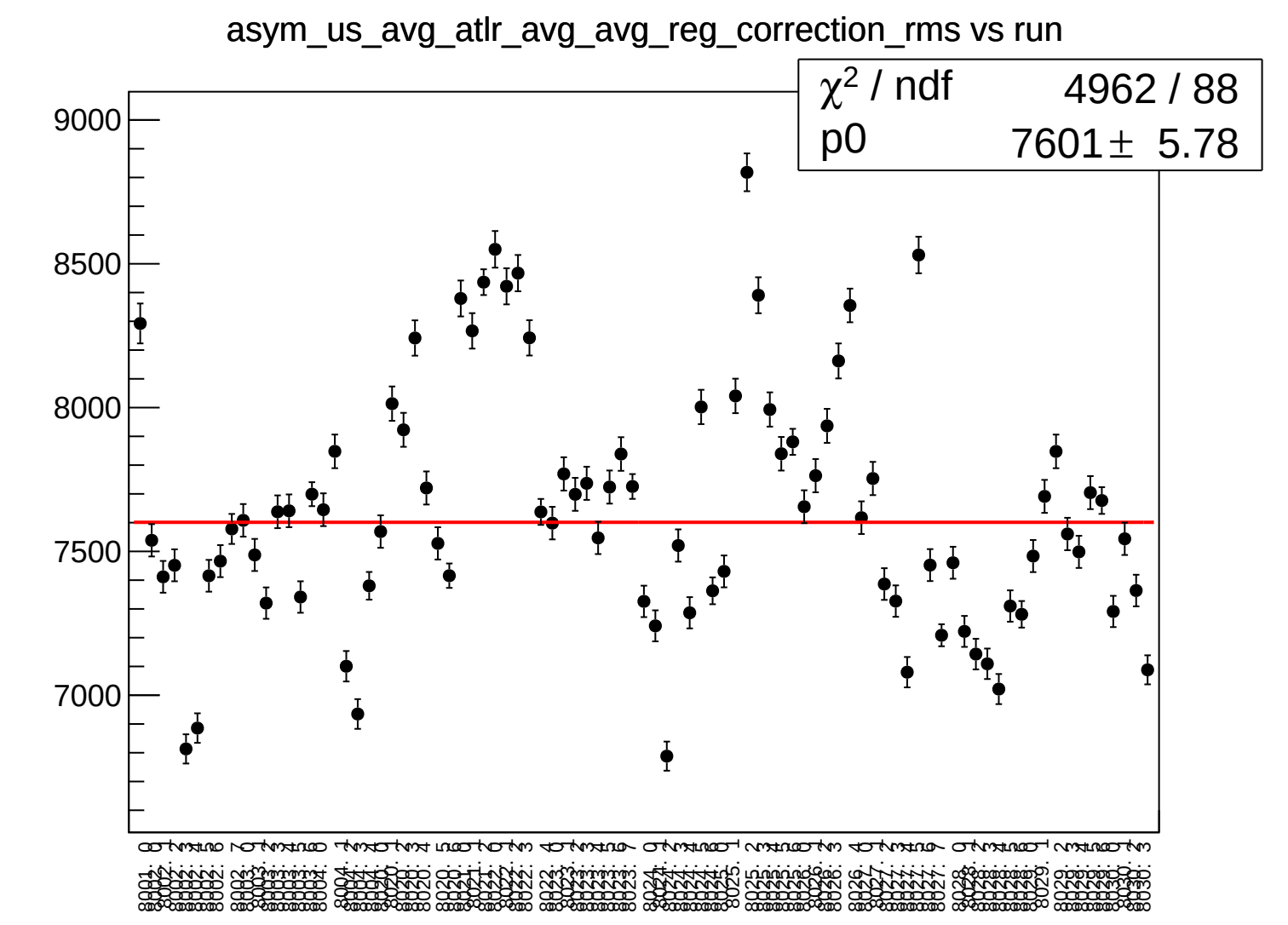

reg_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 76.59 / 88
p0 −5400 ± 1950
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −226.5
Std Dev 0
3
2
1
0
−1
−2

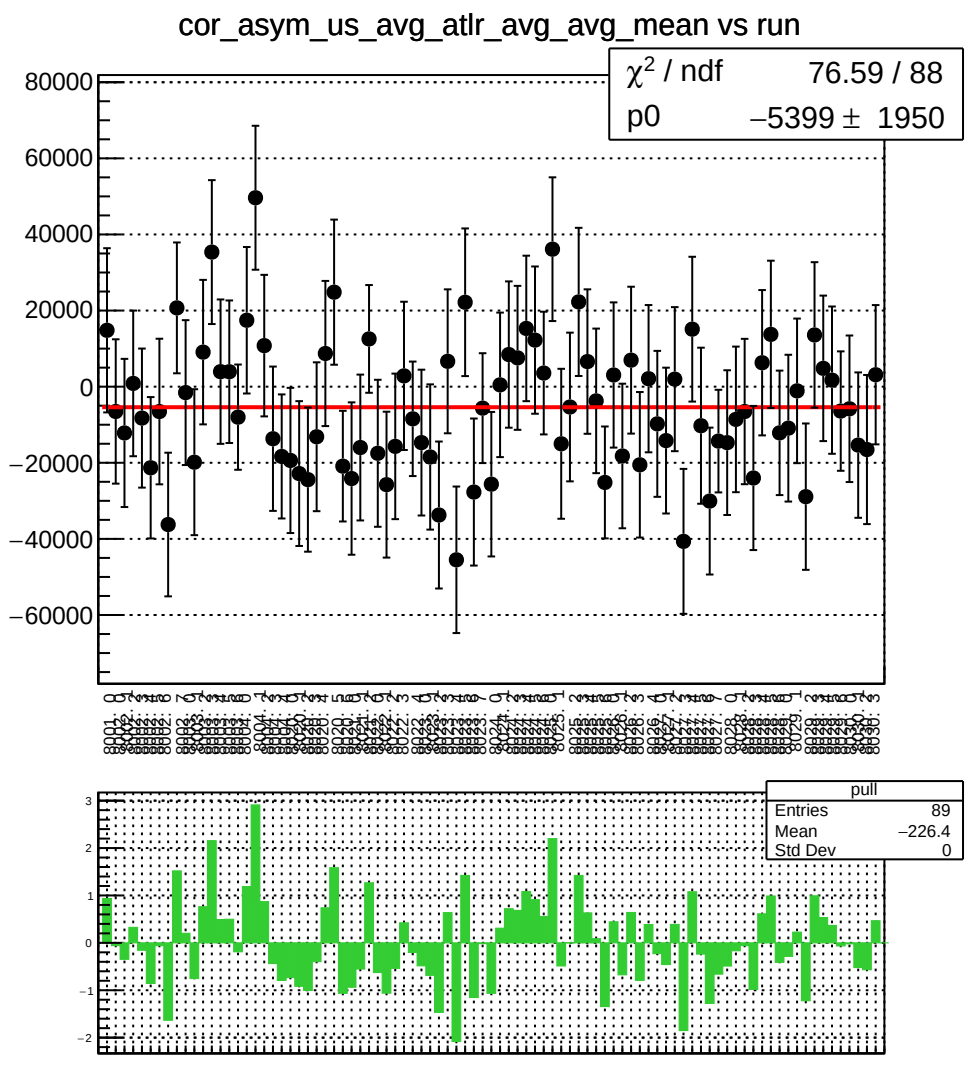

pull1D
Entries 89
Mean 0.006723
Std Dev 0.9277
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

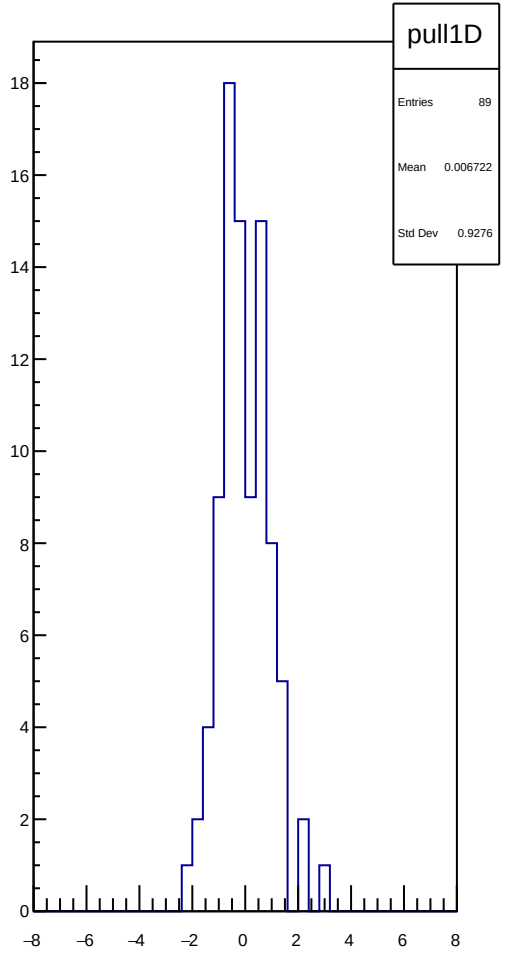

reg_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 515.9 / 88
p0 1816 ± 1.379
1950
1900
1850
1800
1750
1700

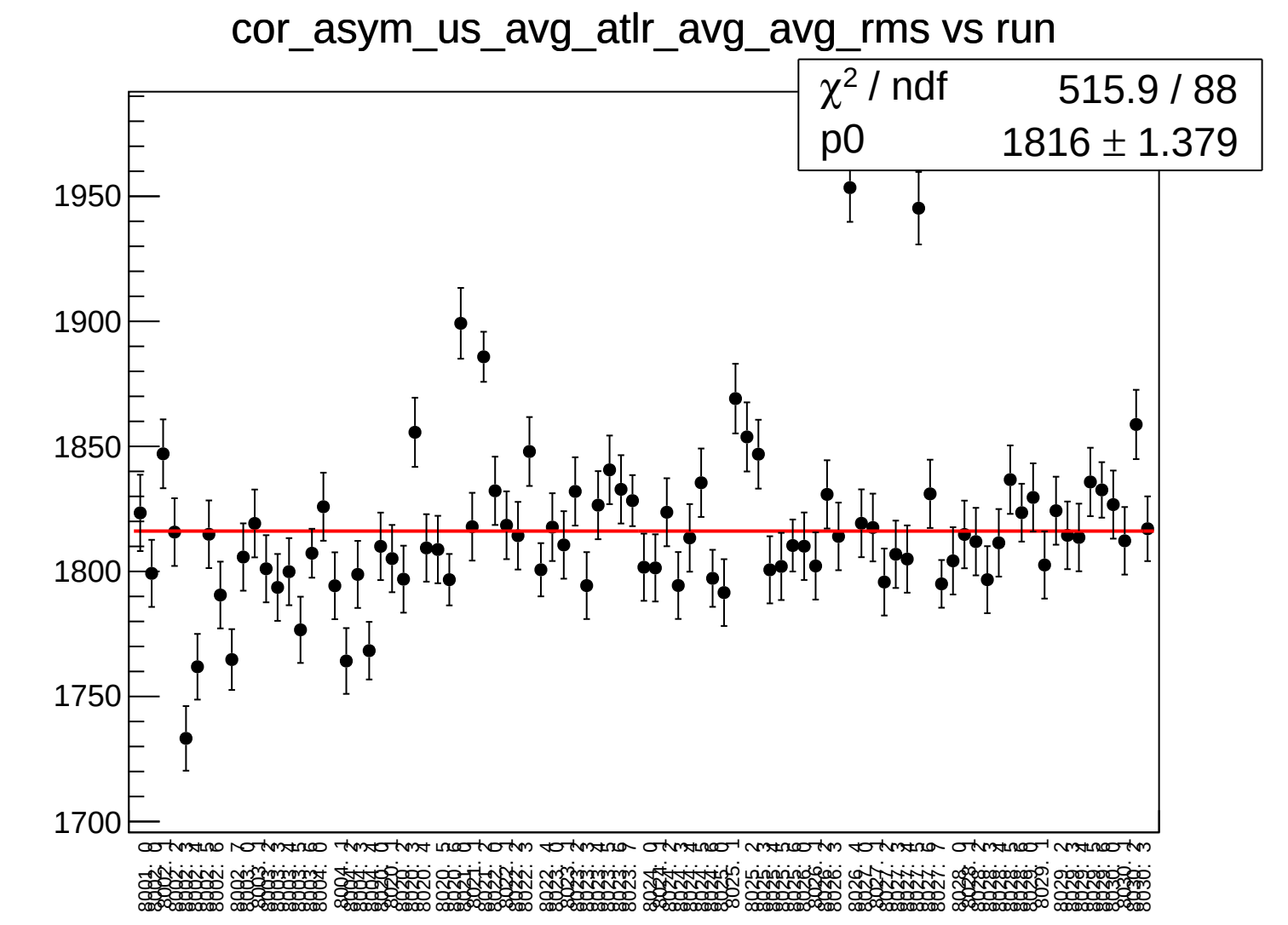

asym_us_avg_atlr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 97.24 / 88
p0 900.9 ± 8173
pull
Entries 89
Mean 152.7
Std Dev 0

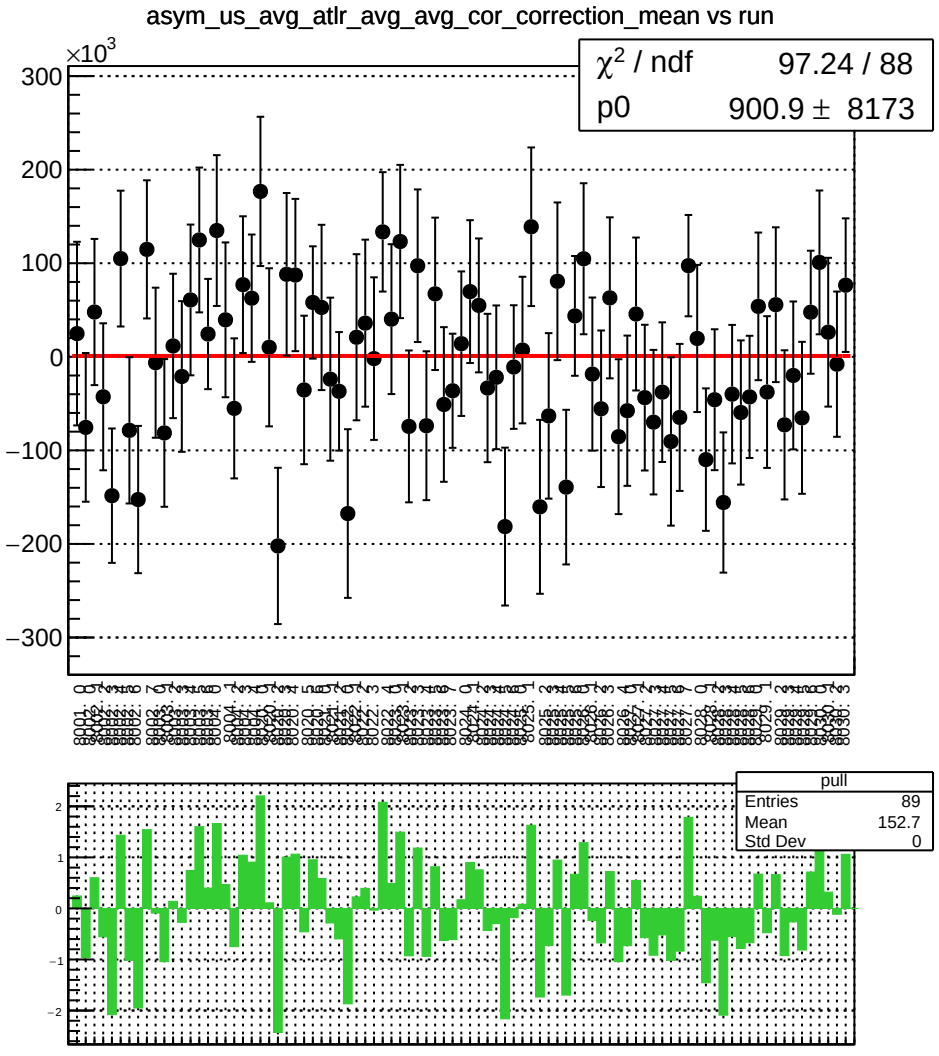

pull1D
Entries 89
Mean −0.0245
Std Dev 1.045

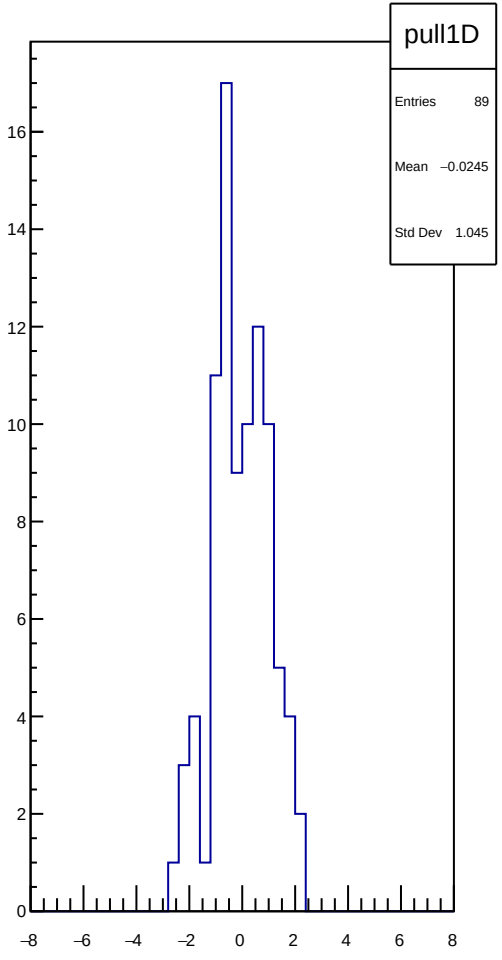

asym_us_avg_atlr_avg_avg_reg_correction_rms vs run
χ² / ndf 4962 / 88
p0 7601 ± 5.78
9000
8500
8000
7500
7000

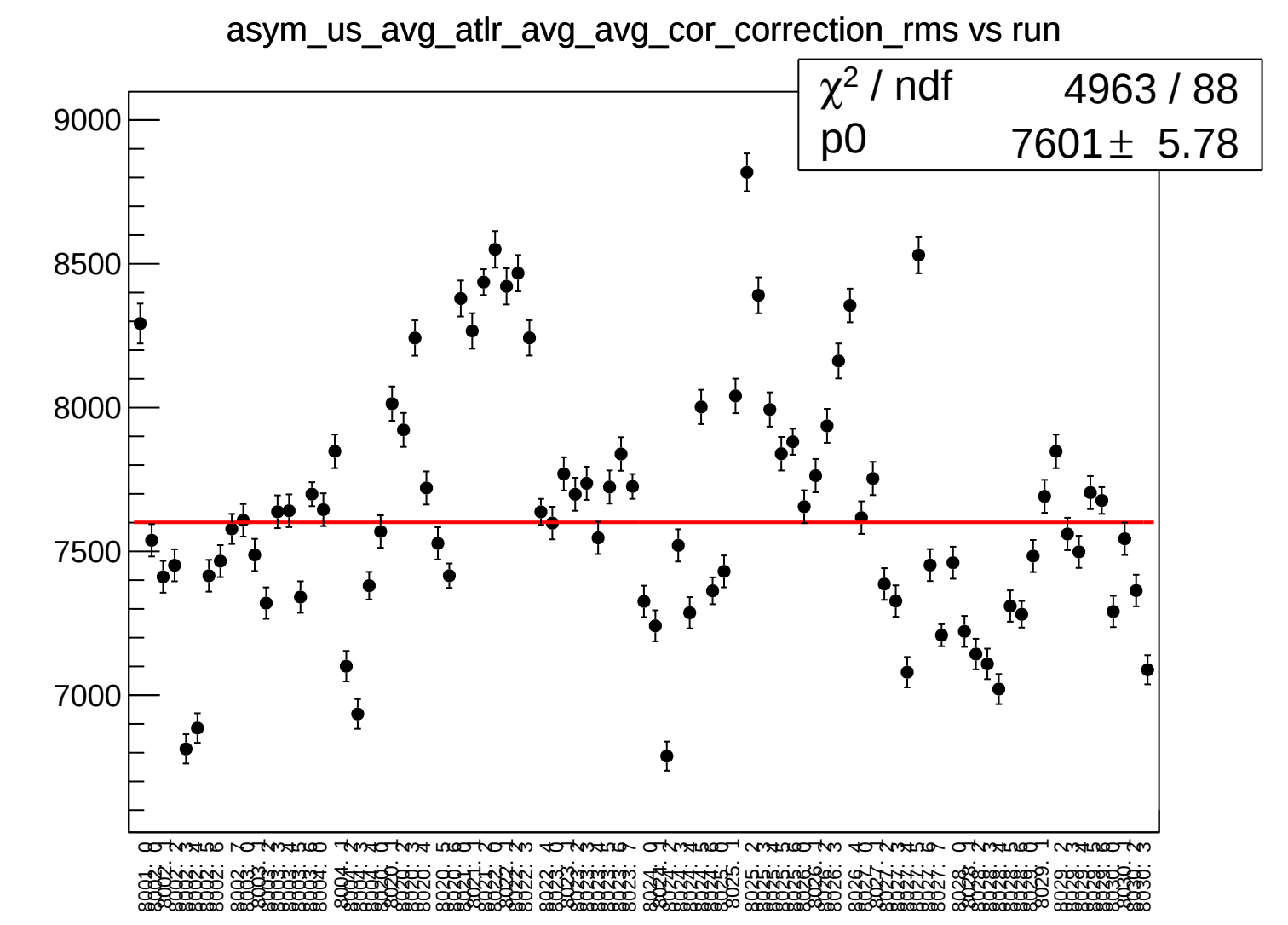

cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 76.59 / 88
p0 −5399 ± 1950
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −226.4
Std Dev 0
3
2
1
0
−1
−2

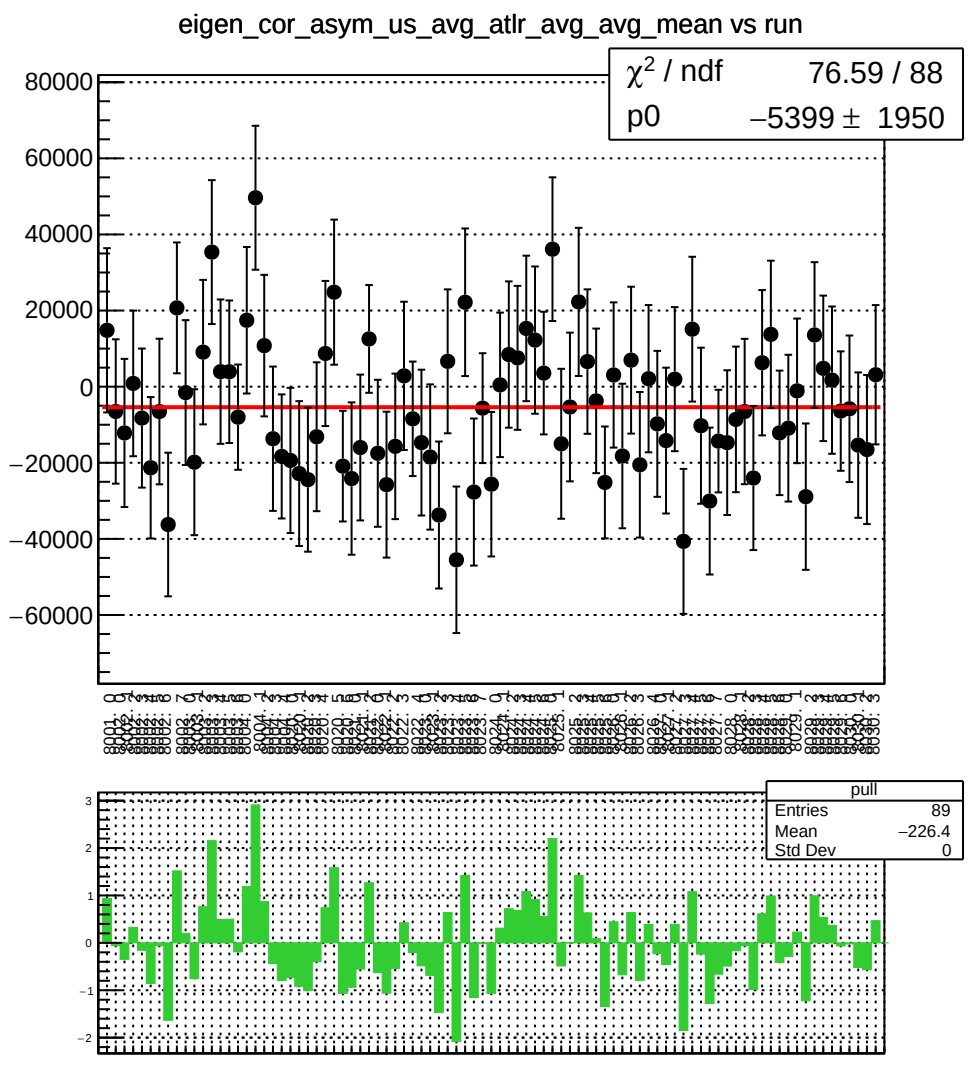

pull1D
Entries 89
Mean 0.006722
Std Dev 0.9276
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

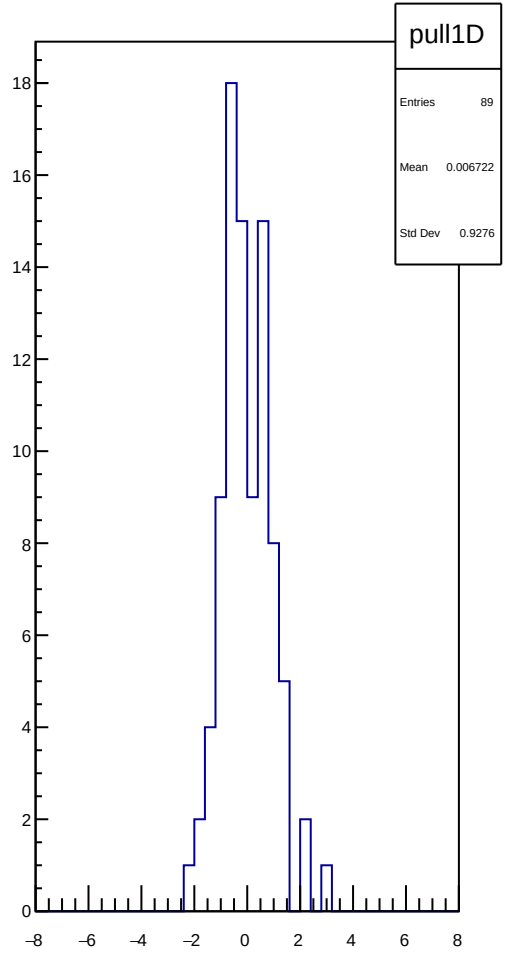

cor_asym_us_avg_atlr_avg_avg_rms vs run
χ^2 / ndf 515.9 / 88
p0 1816 ± 1.379
1950
1900
1850
1800
1750
1700

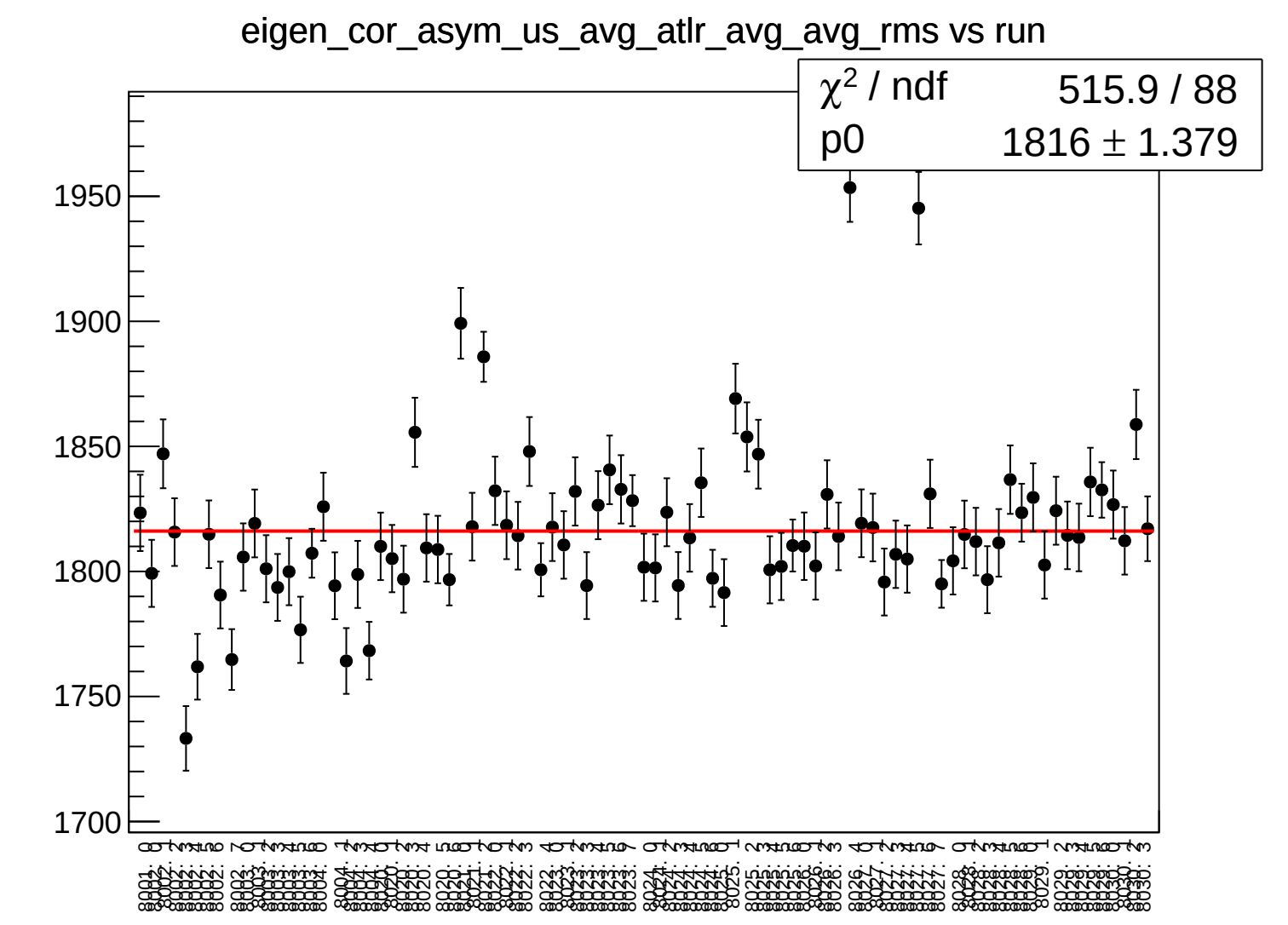

asym_us_avg_atlr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 97.24 / 88
p0 900.9 ± 8173
pull
Entries 89
Mean 152.7
Std Dev 0

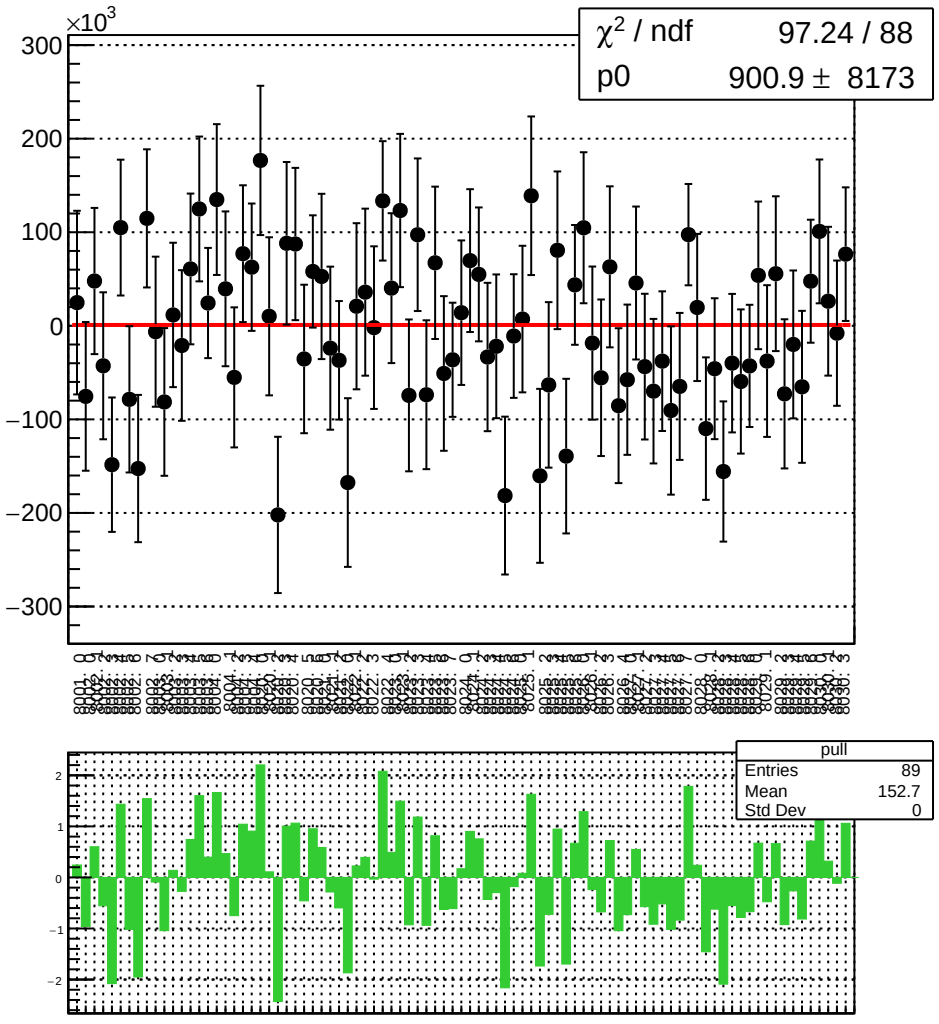

pull1D
Entries 89
Mean −0.0245
Std Dev 1.045

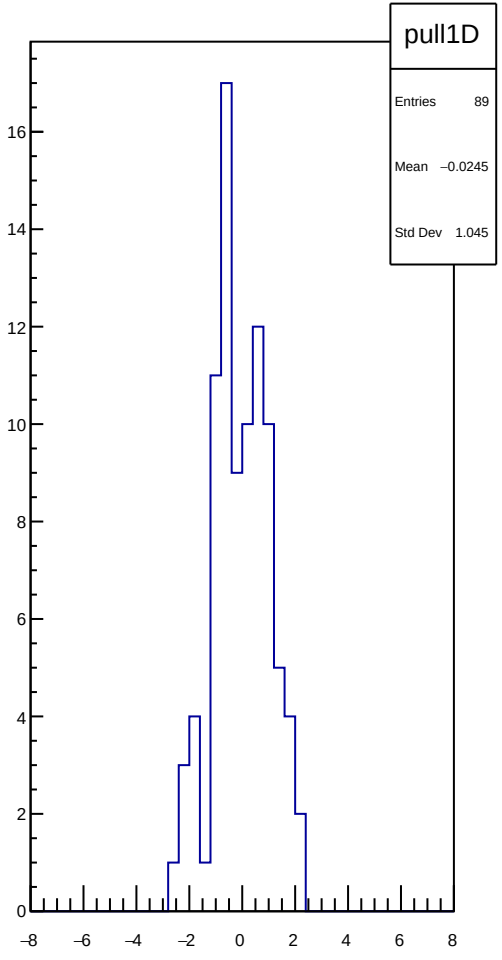

asym_us_avg_atlr_avg_avg_cor_correction_rms vs run
χ² / ndf 4963 / 88
p0 7601 ± 5.78
9000
8500
8000
7500
7000

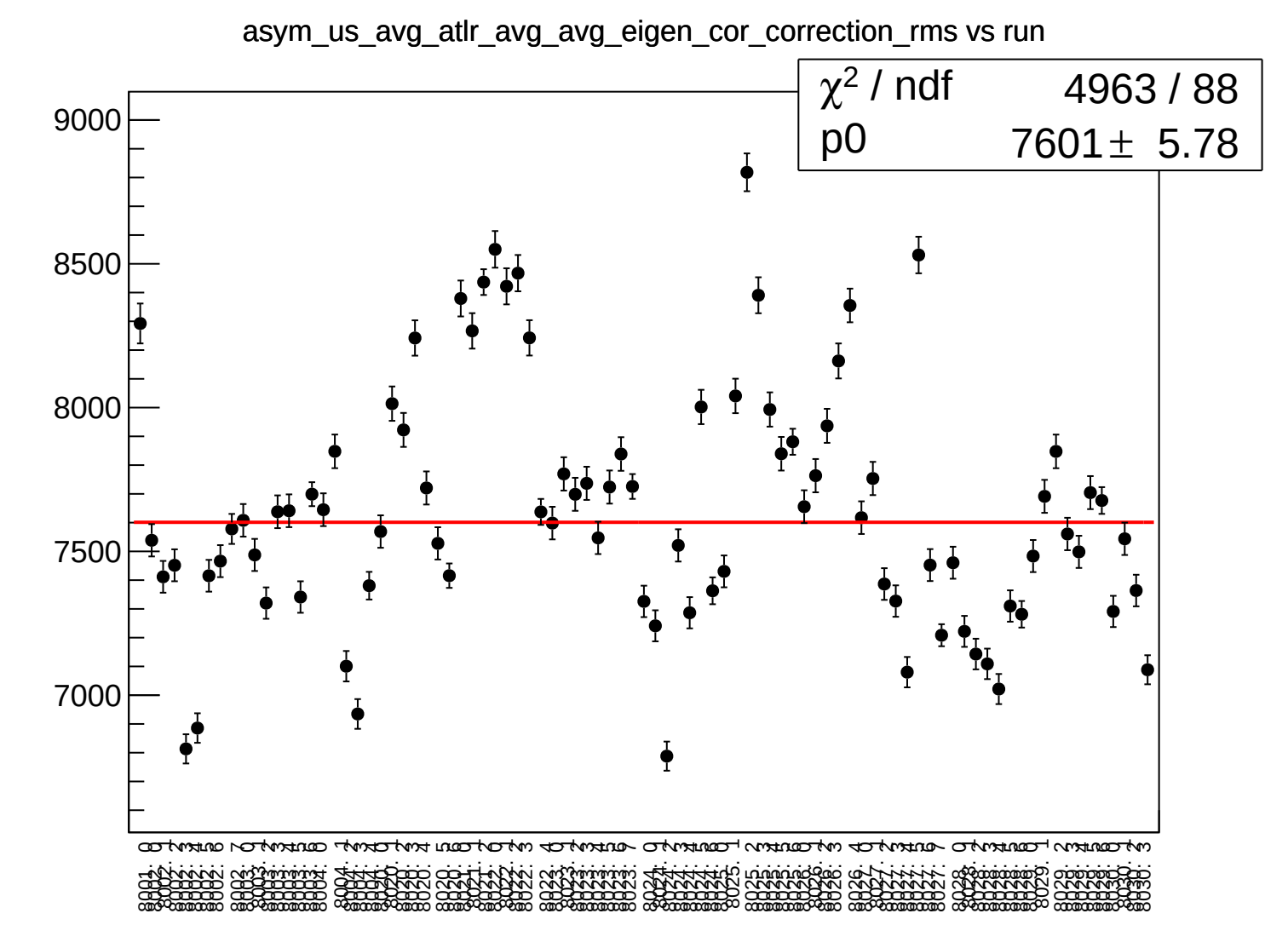

eigen_cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 76.59 / 88
p0 −5399 ± 1950
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −226.4
Std Dev 0
3
2
1
0
−1
−2

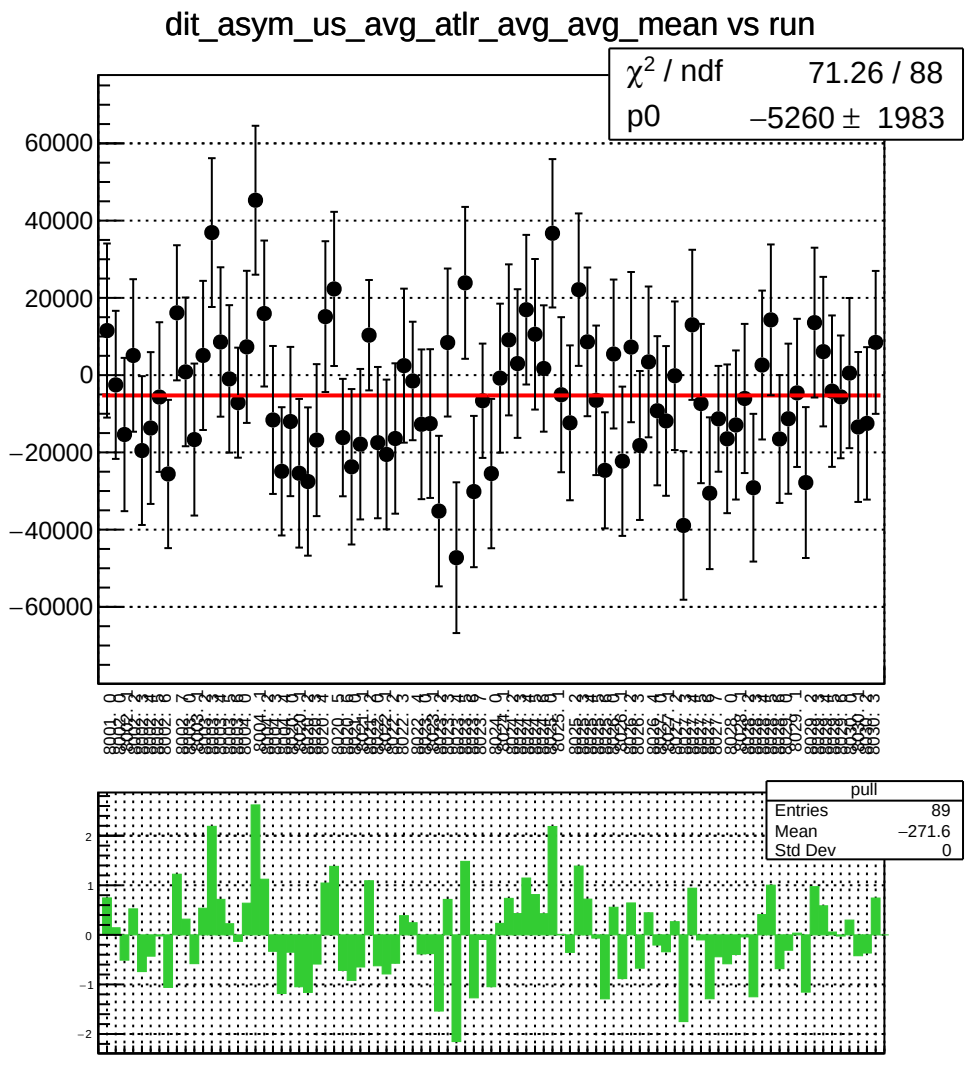

pull1D
Entries 89
Mean 0.006722
Std Dev 0.9276
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

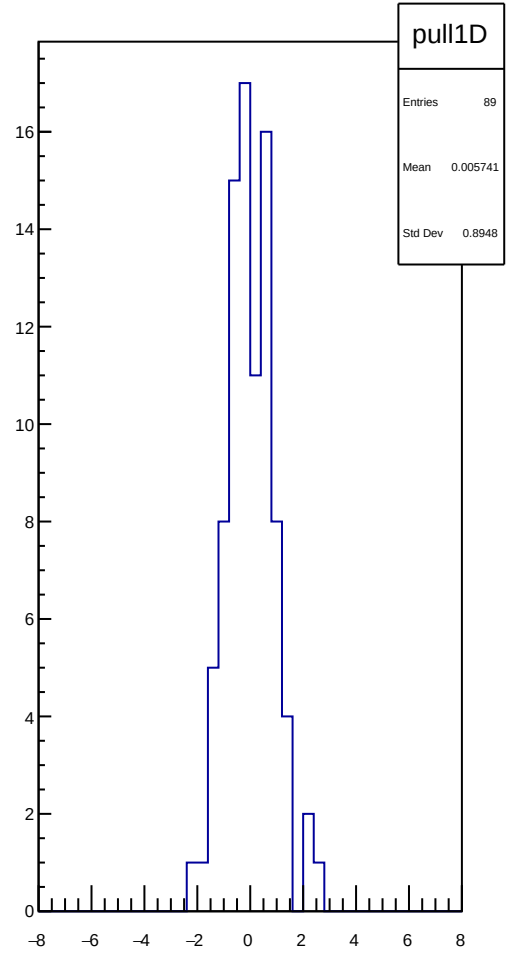

eigen_cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 515.9 / 88
p0 1816 ± 1.379
1950
1900
1850
1800
1750
1700

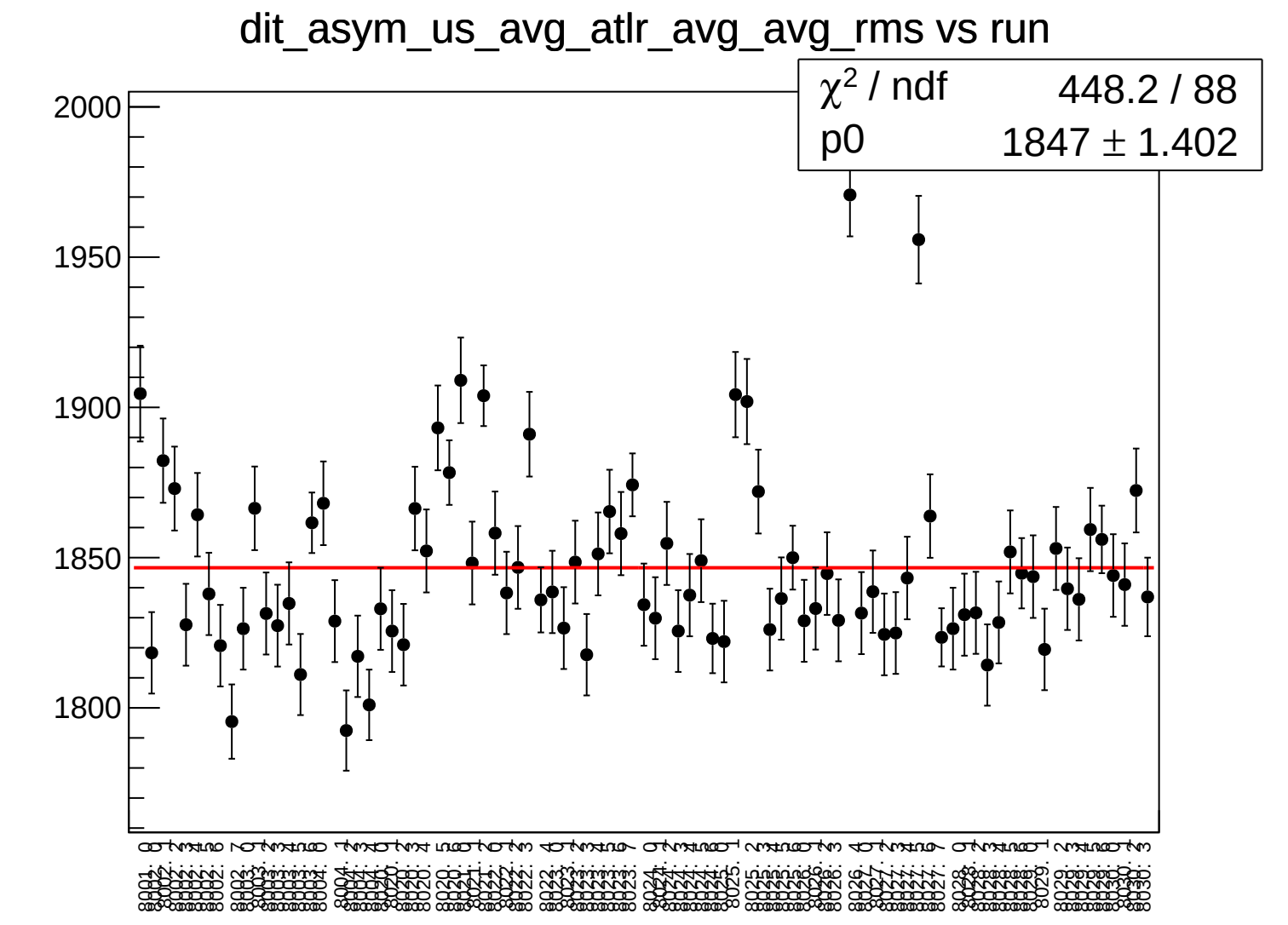

asym_us_avg_atlr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 97.24 / 88
p0 900.9 ± 8173
pull
Entries 89
Mean 152.7
Std Dev 0

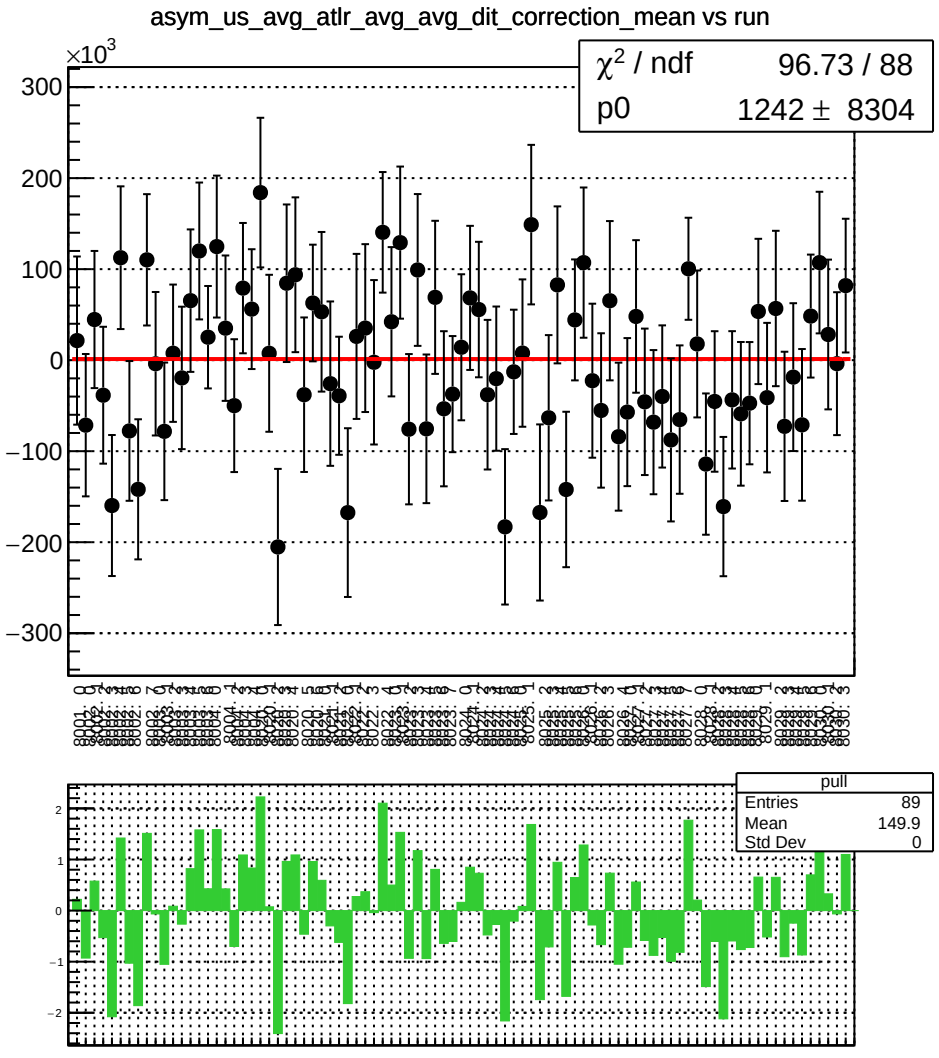

pull1D
Entries 89
Mean −0.0245
Std Dev 1.045

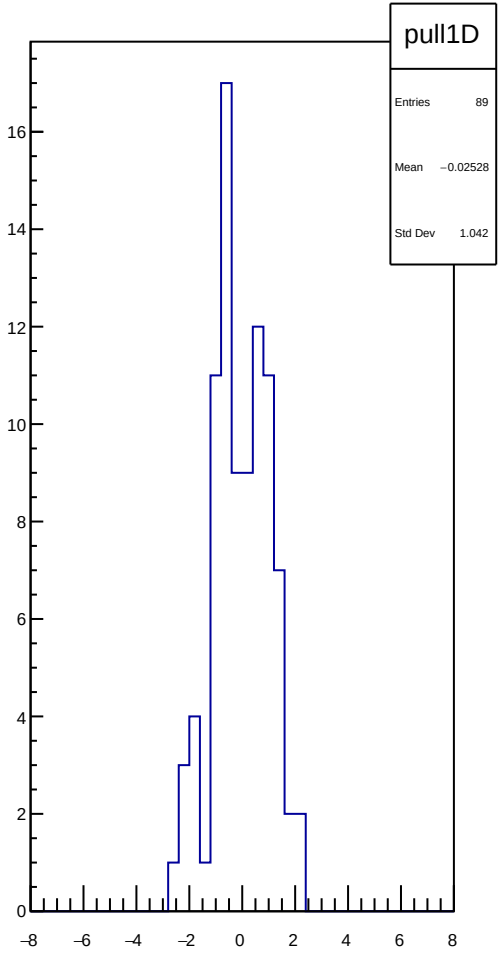

asym_us_avg_atlr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 4963 / 88
p0 7601 ± 5.78
9000
8500
8000
7500
7000

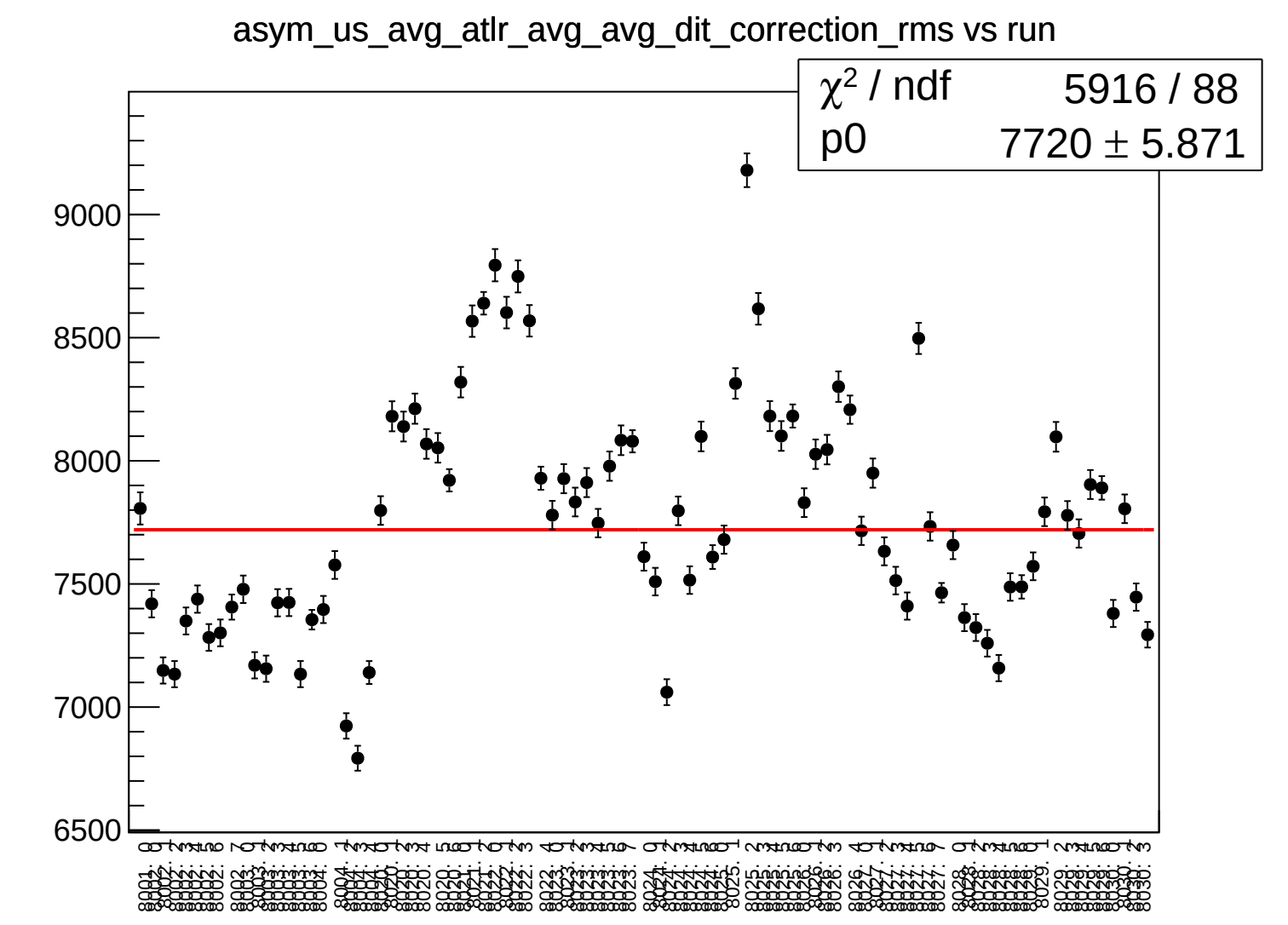

dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 71.26 / 88
p0 −5260 ± 1983
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −271.6
Std Dev 0
2
1
0
−1
−2

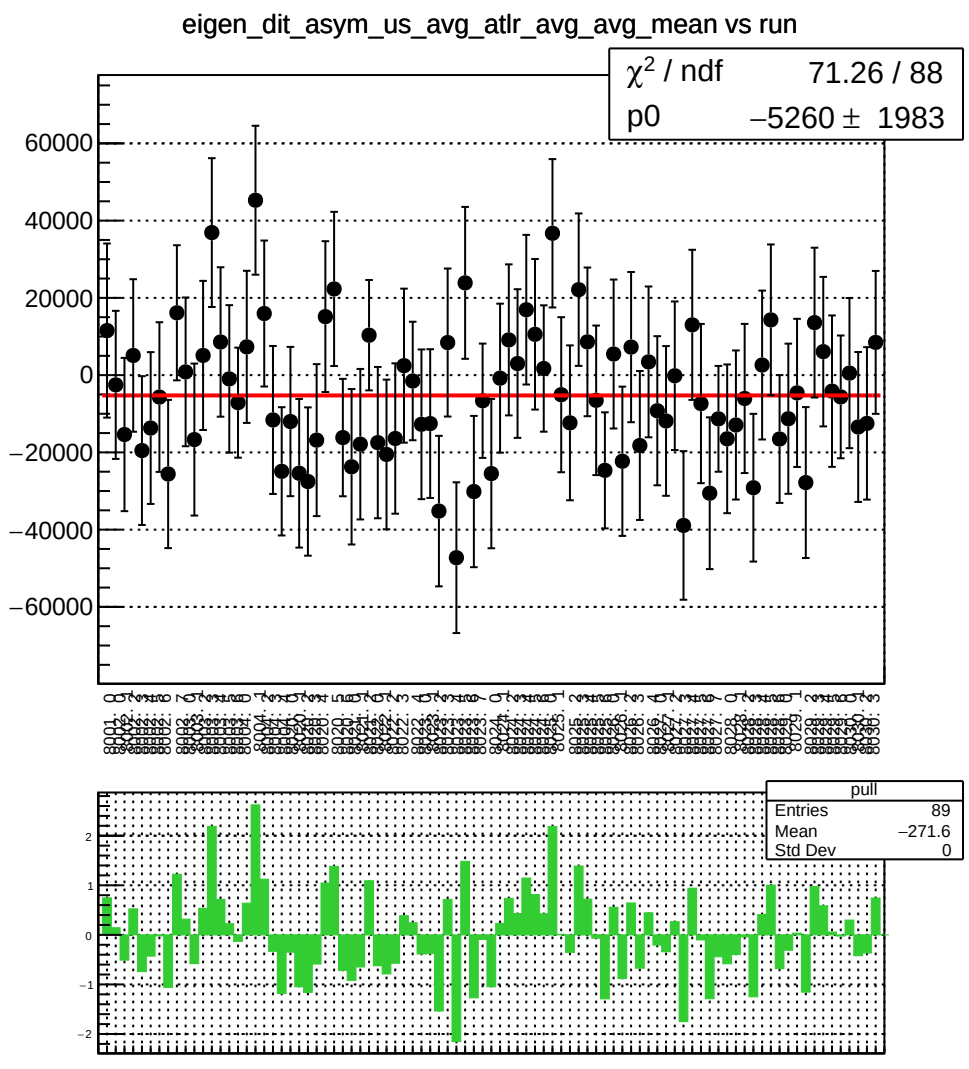

pull1D
Entries 89
Mean 0.005741
Std Dev 0.8948
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

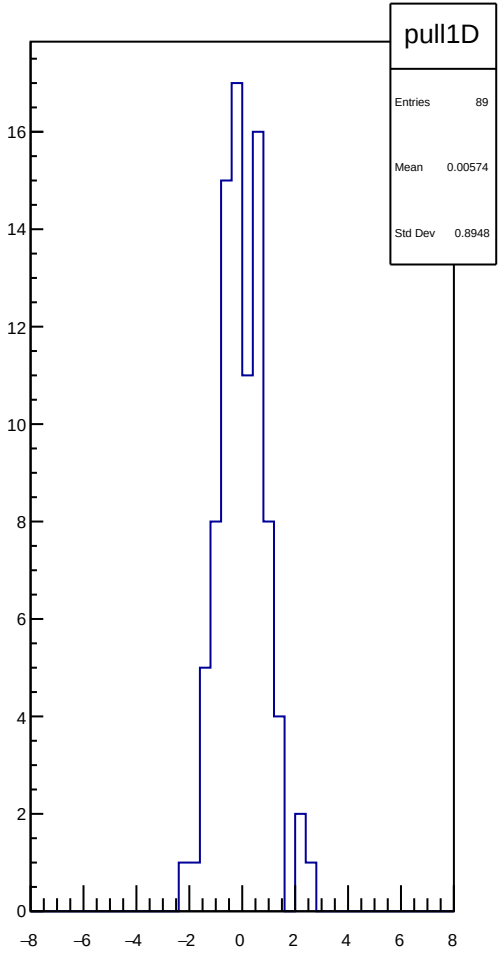

dit_asym_us_avg_atlr_avg_avg_rms vs run
χ^2 / ndf 448.2 / 88
p0 1847 ± 1.402
2000
1950
1900
1850
1800

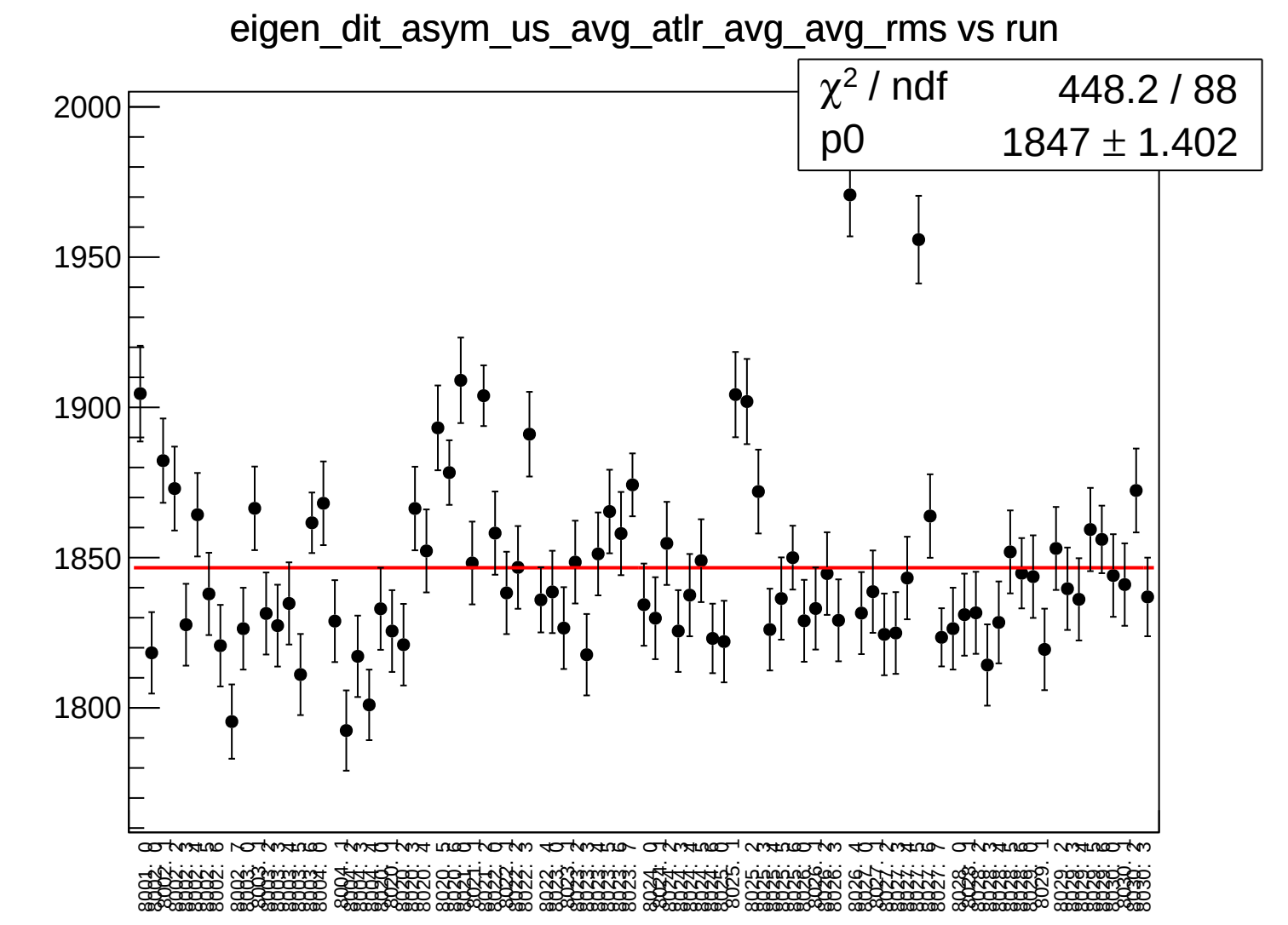

asym_us_avg_atlr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 96.73 / 88
p0 1242 ± 8304
pull
Entries 89
Mean 149.9
Std Dev 0

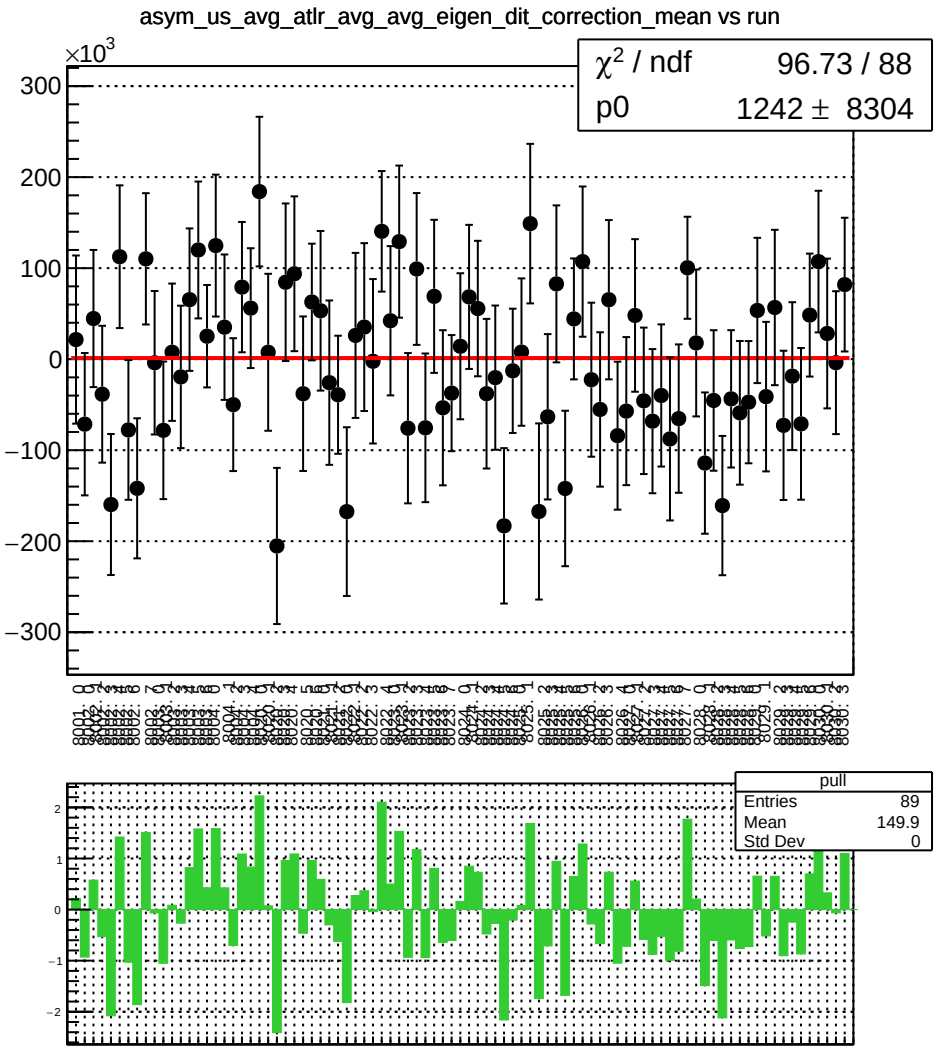

pull1D
Entries 89
Mean −0.02528
Std Dev 1.042

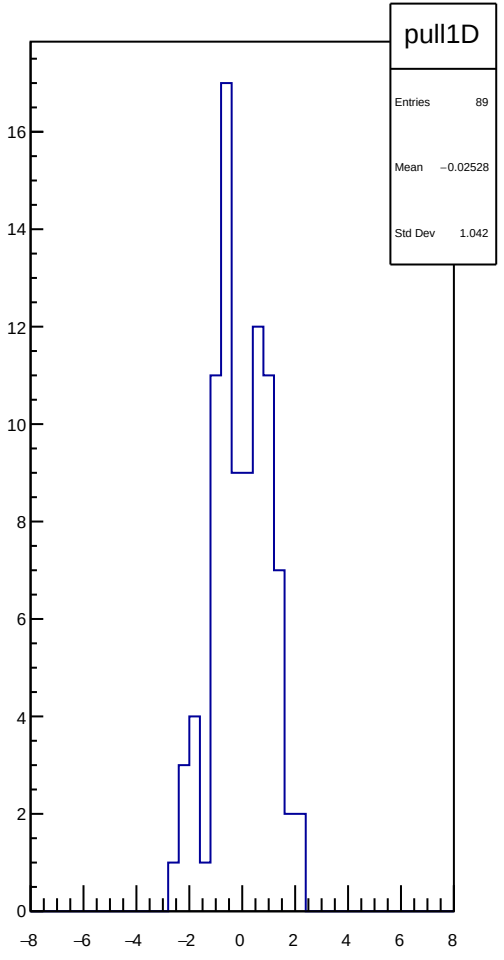

asym_us_avg_atlr_avg_avg_dit_correction_rms vs run
χ^2 / ndf 5916 / 88
p0 7720 ± 5.871
9000
8500
8000
7500
7000
6500

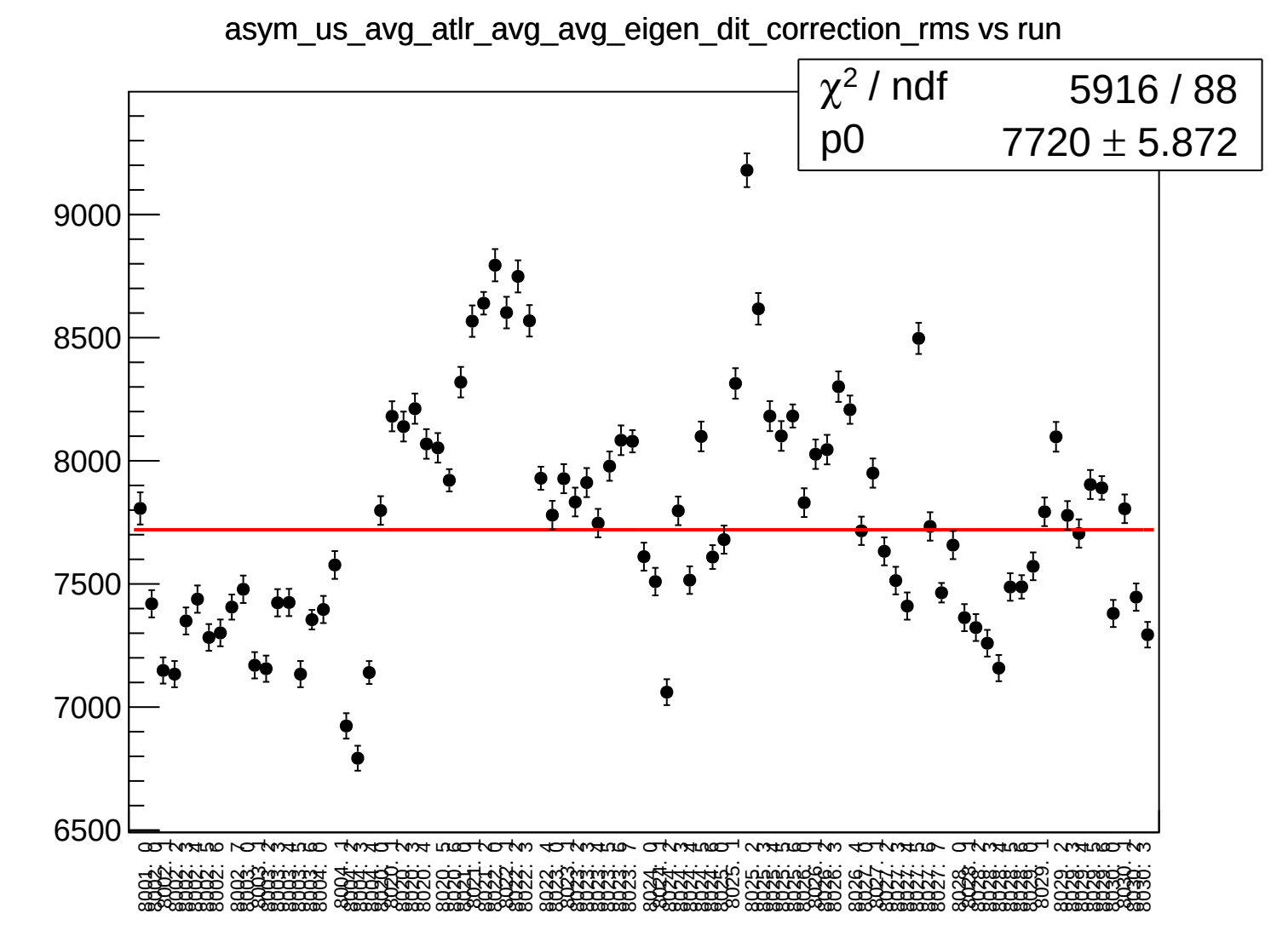

eigen_dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 71.26 / 88
p0 −5260 ± 1983
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −271.6
Std Dev 0
2
1
0
−1
−2

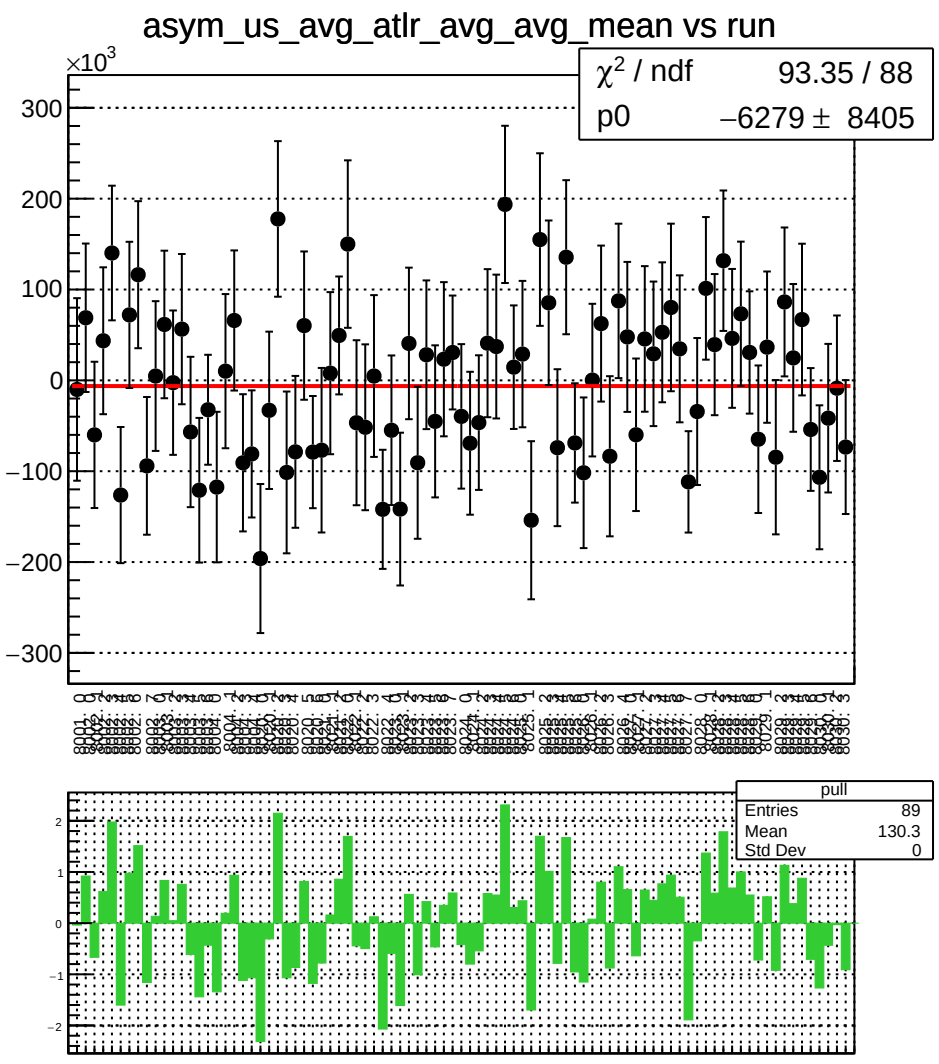

pull1D
Entries 89
Mean 0.00574
Std Dev 0.8948
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

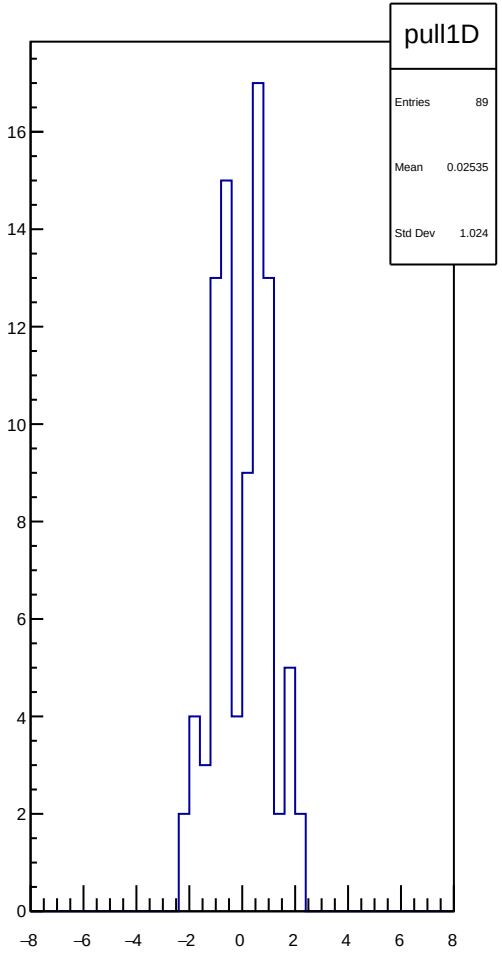

eigen_dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 448.2 / 88
p0 1847 ± 1.402
2000
1950
1900
1850
1800

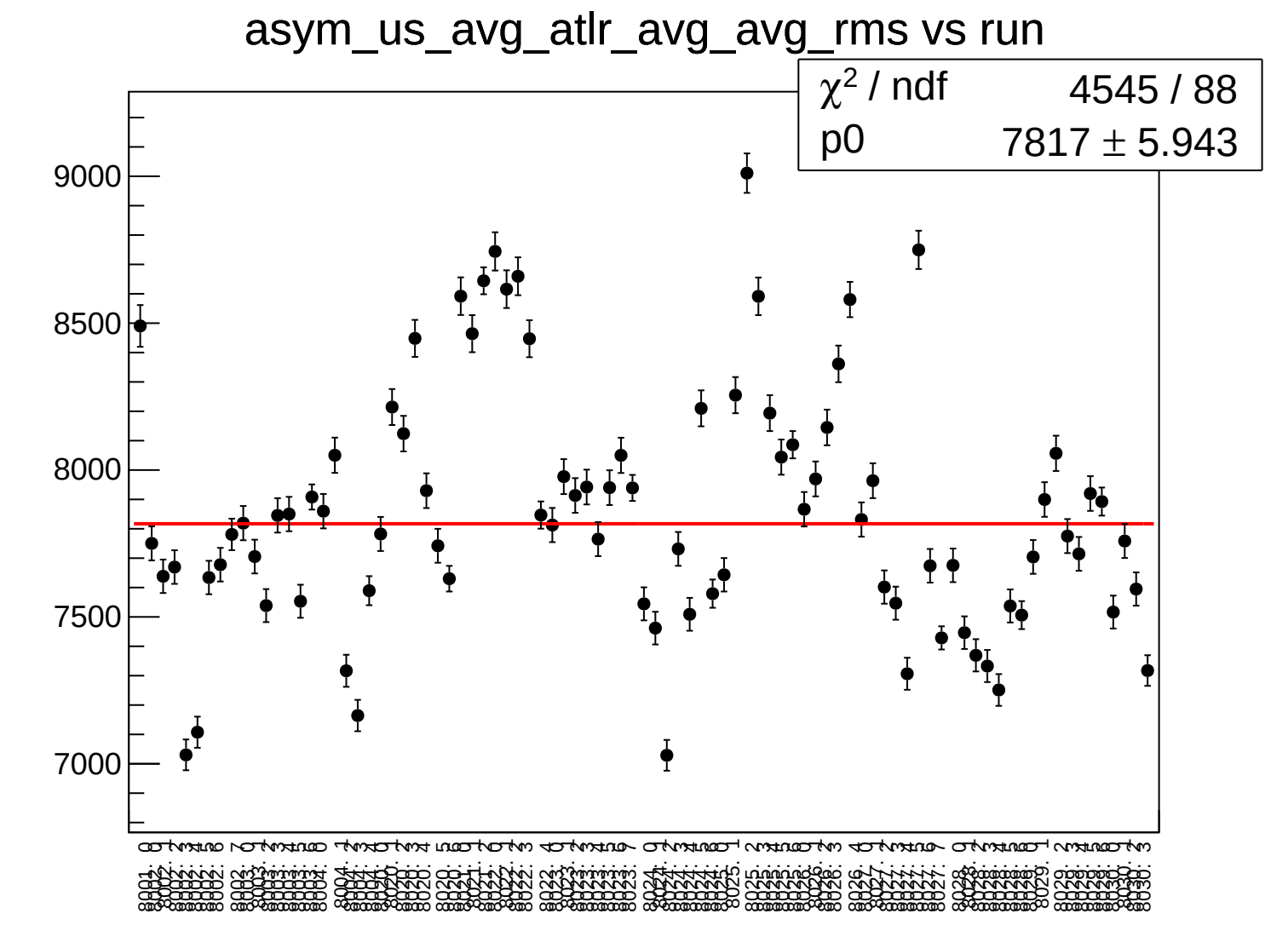

asym_us_avg_atlr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 96.73 / 88
p0 1242 ± 8304
pull
Entries 89
Mean 149.9
Std Dev 0

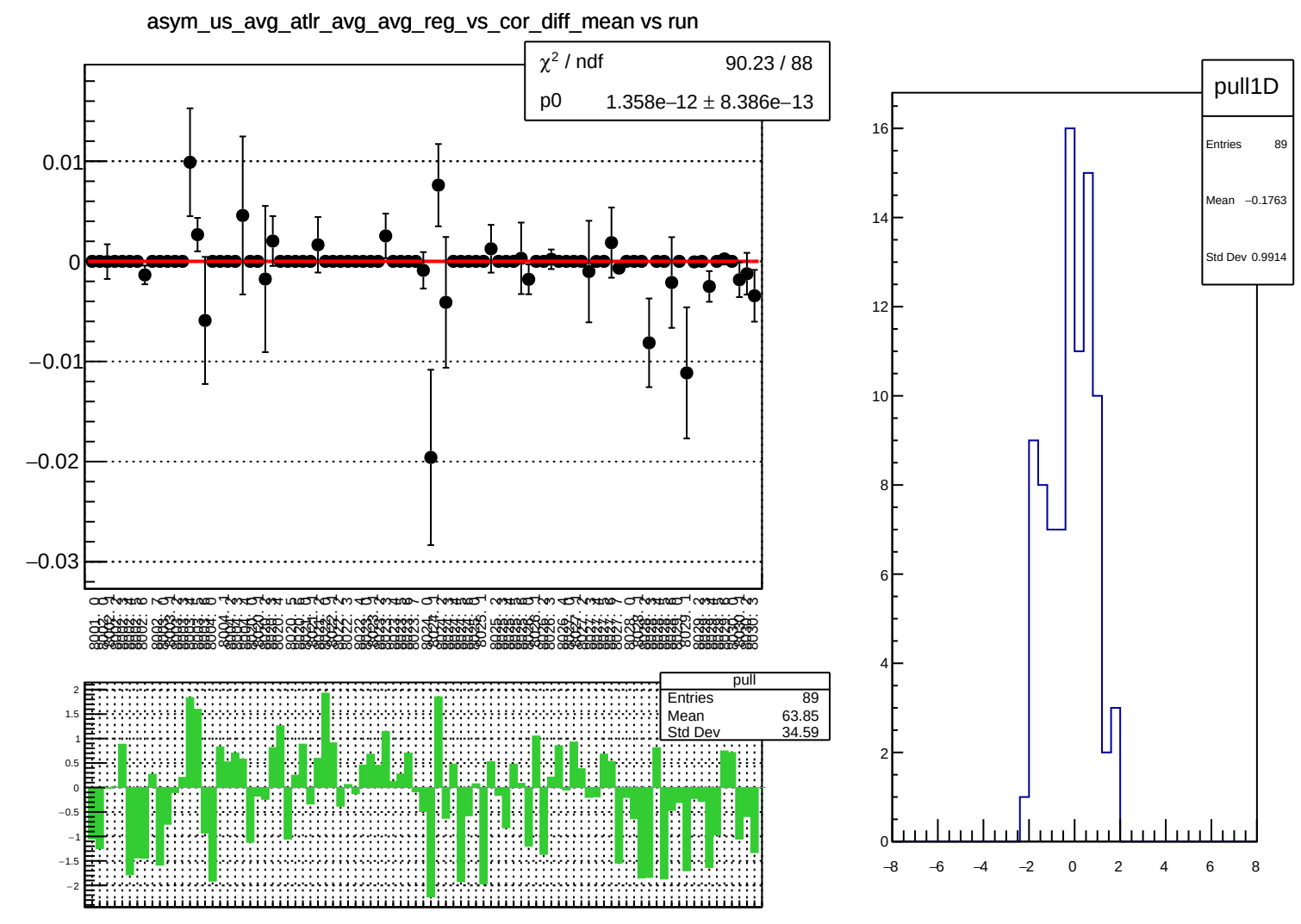

pull1D
Entries 89
Mean −0.02528
Std Dev 1.042

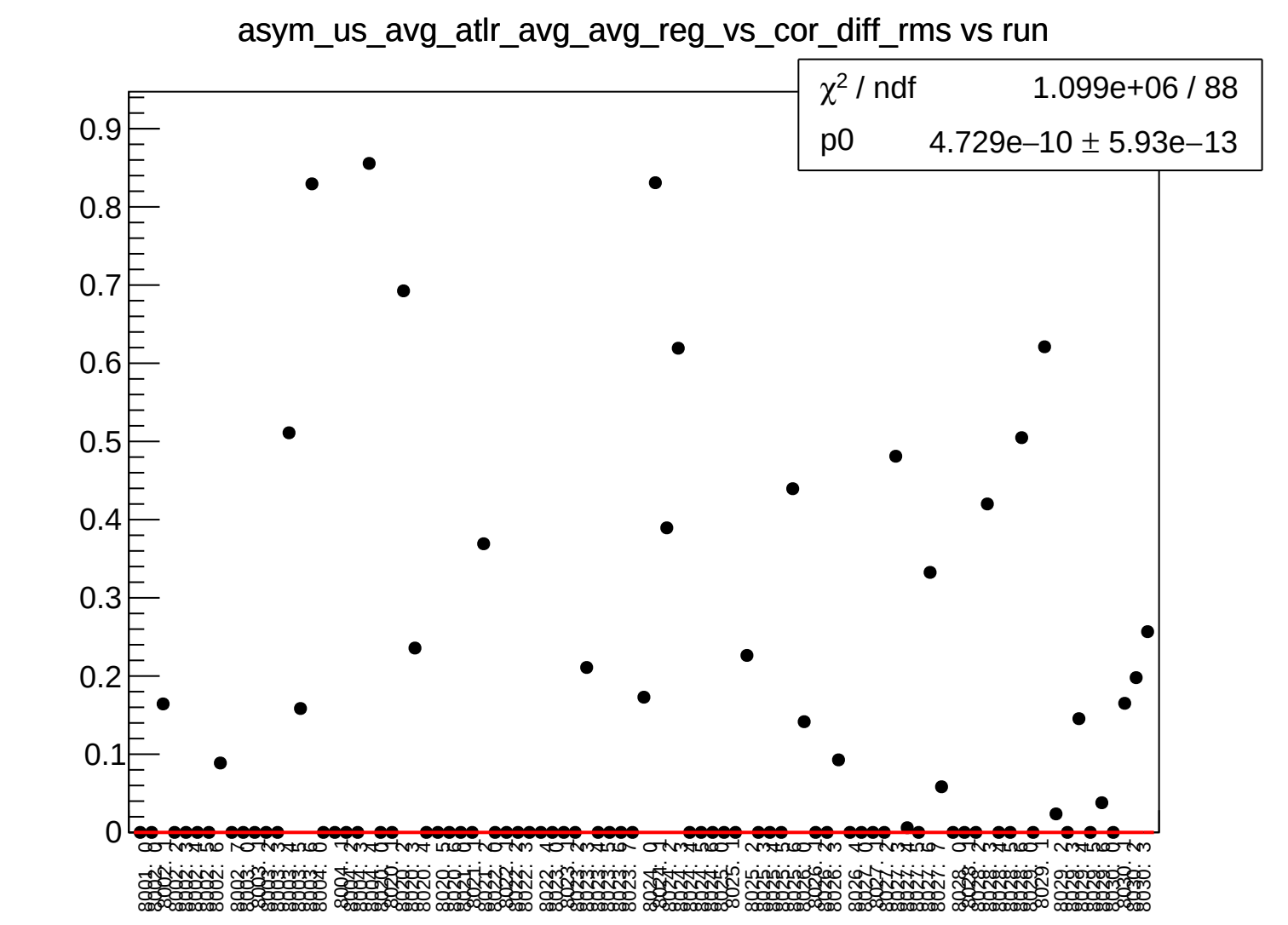

asym_us_avg_atlr_avg_avg_eigen_dit_correction_rms vs run
χ^2 / ndf 5916 / 88
p0 7720 ± 5.872
9000
8500
8000
7500
7000
6500

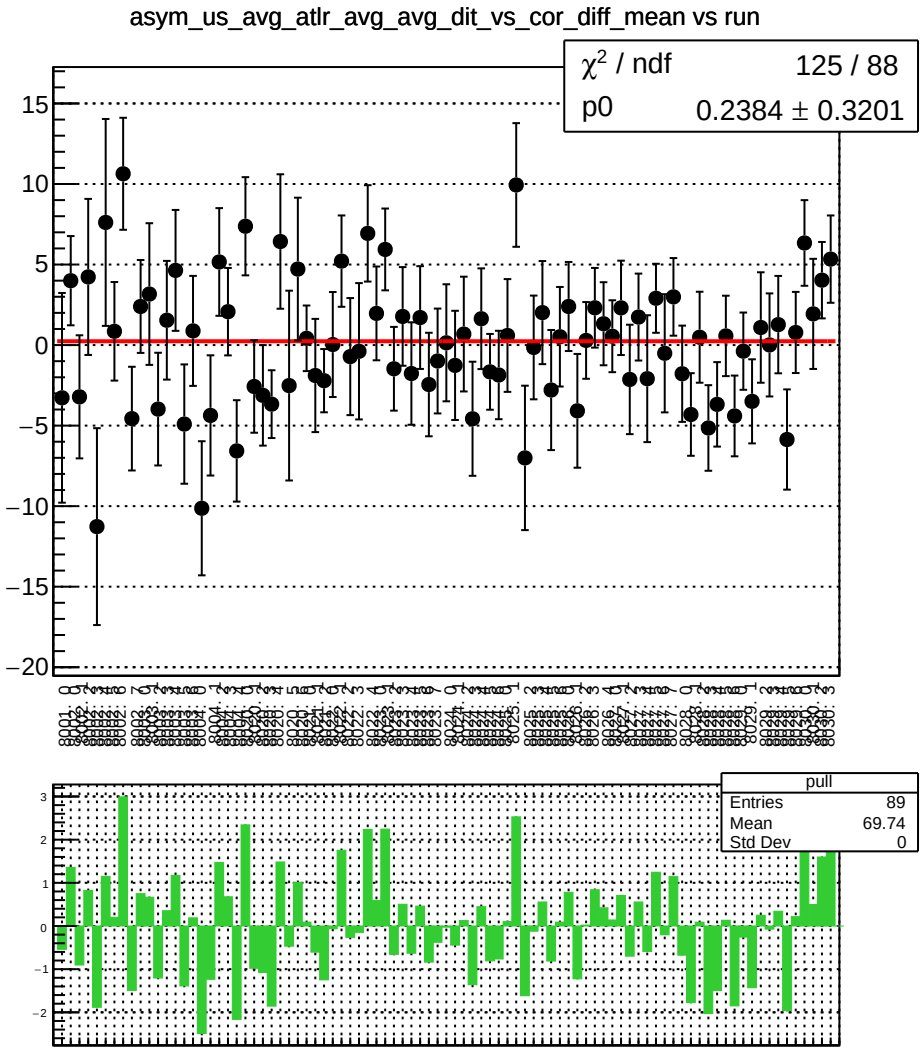

asym_us_avg_atlr_avg_avg_mean vs run
×10^3
χ² / ndf 93.35 / 88
p0 −6279 ± 8405
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean 130.3
Std Dev 0
2
1
0
−1
−2

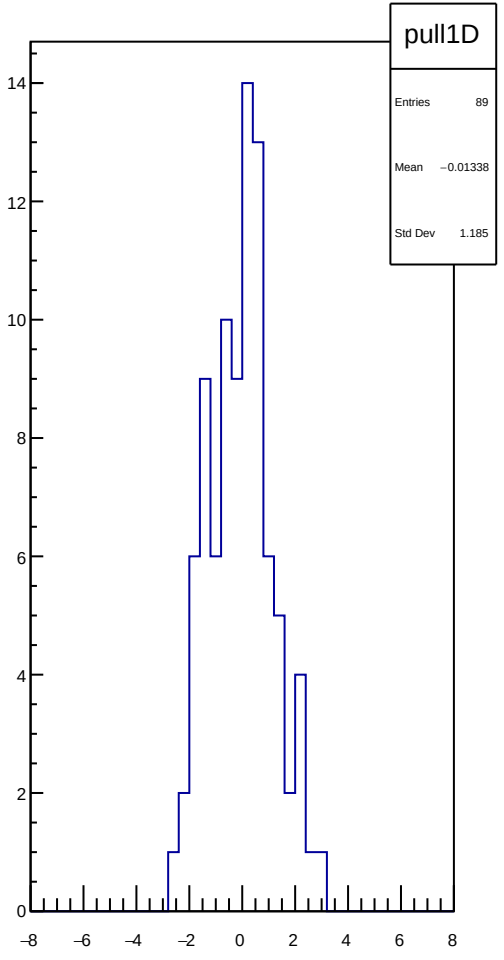

pull1D
Entries 89
Mean 0.02535
Std Dev 1.024
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

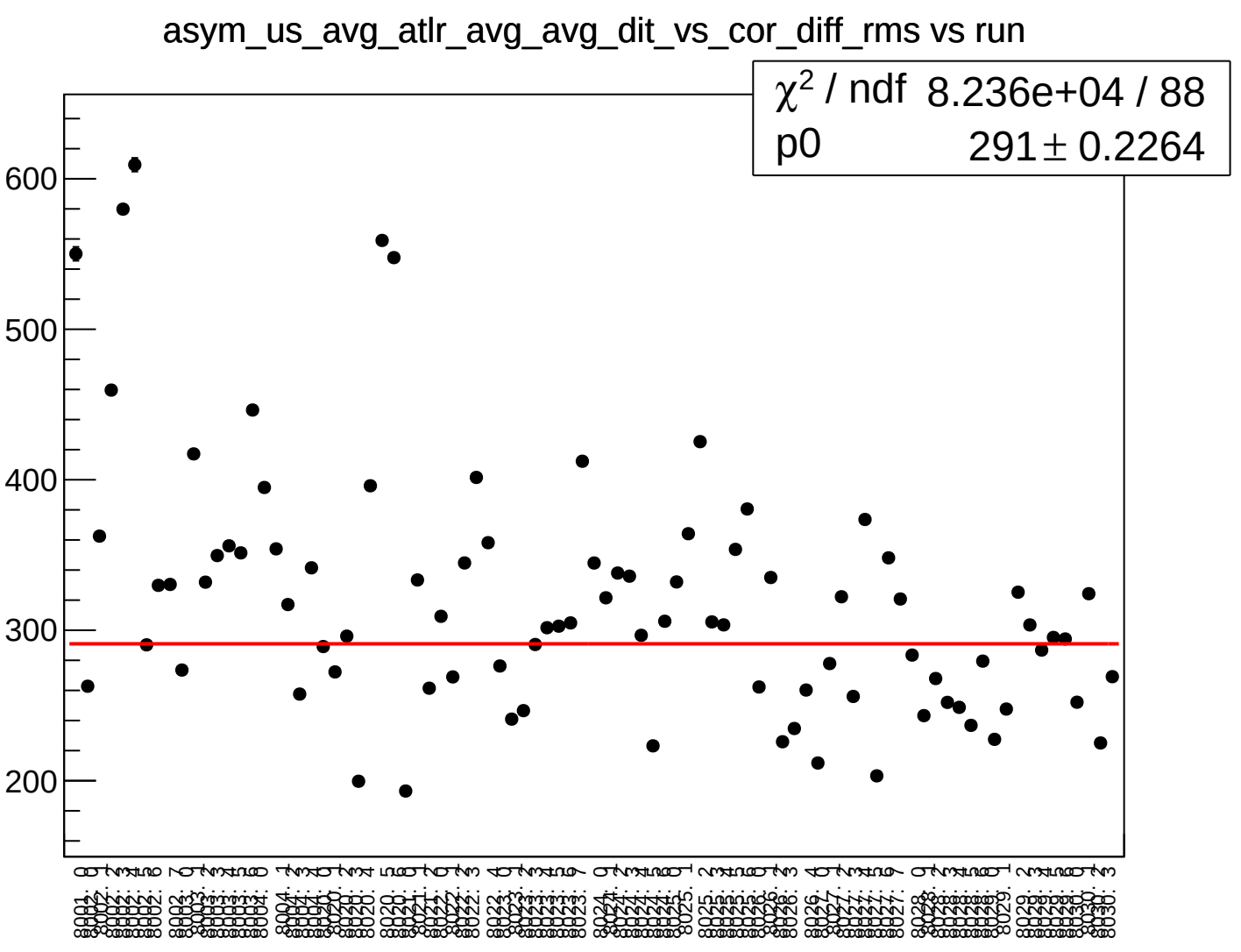

asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 4545 / 88
p0 7817 ± 5.943
9000
8500
8000
7500
7000

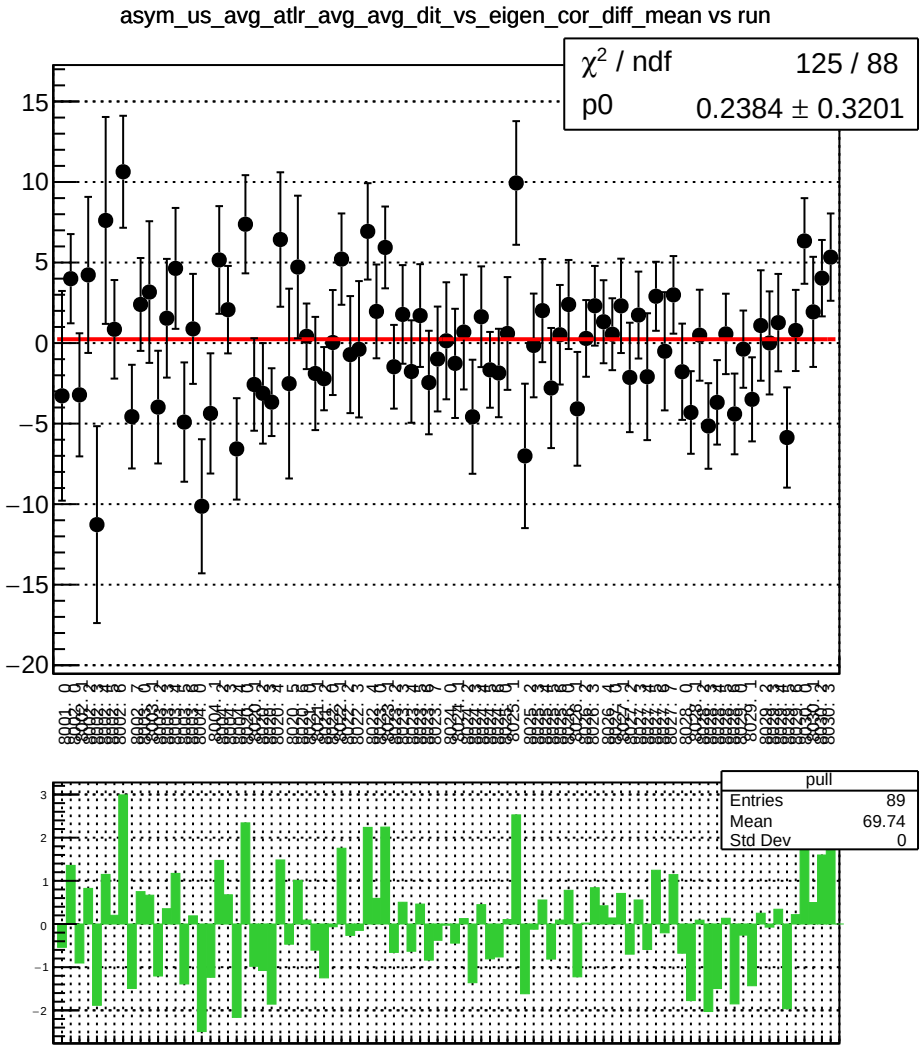

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 90.23 / 88
p0 1.358e−12 ± 8.386e−13
0.01
0
−0.01
−0.02
−0.03
pull
Entries 89
Mean 63.85
Std Dev 34.59
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean −0.1763
Std Dev 0.9914
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

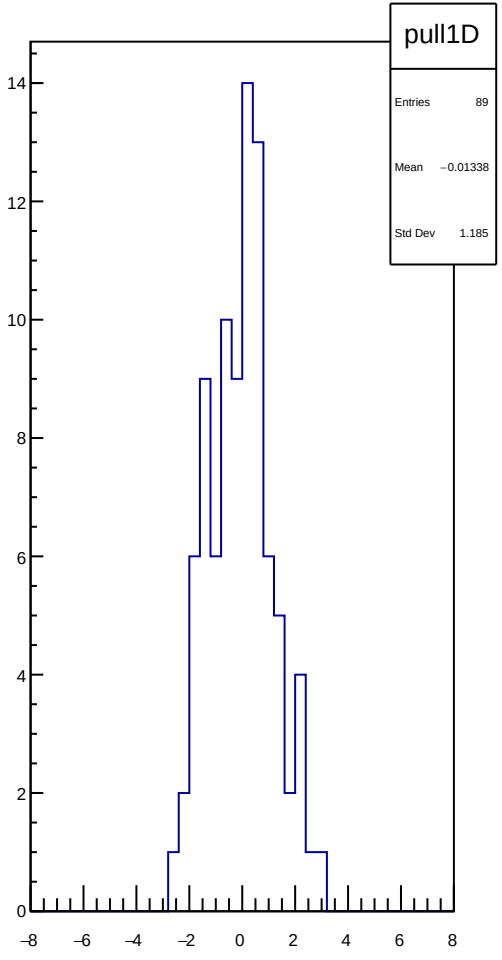

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.099e+06 / 88
p0 4.729e−10 ± 5.93e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

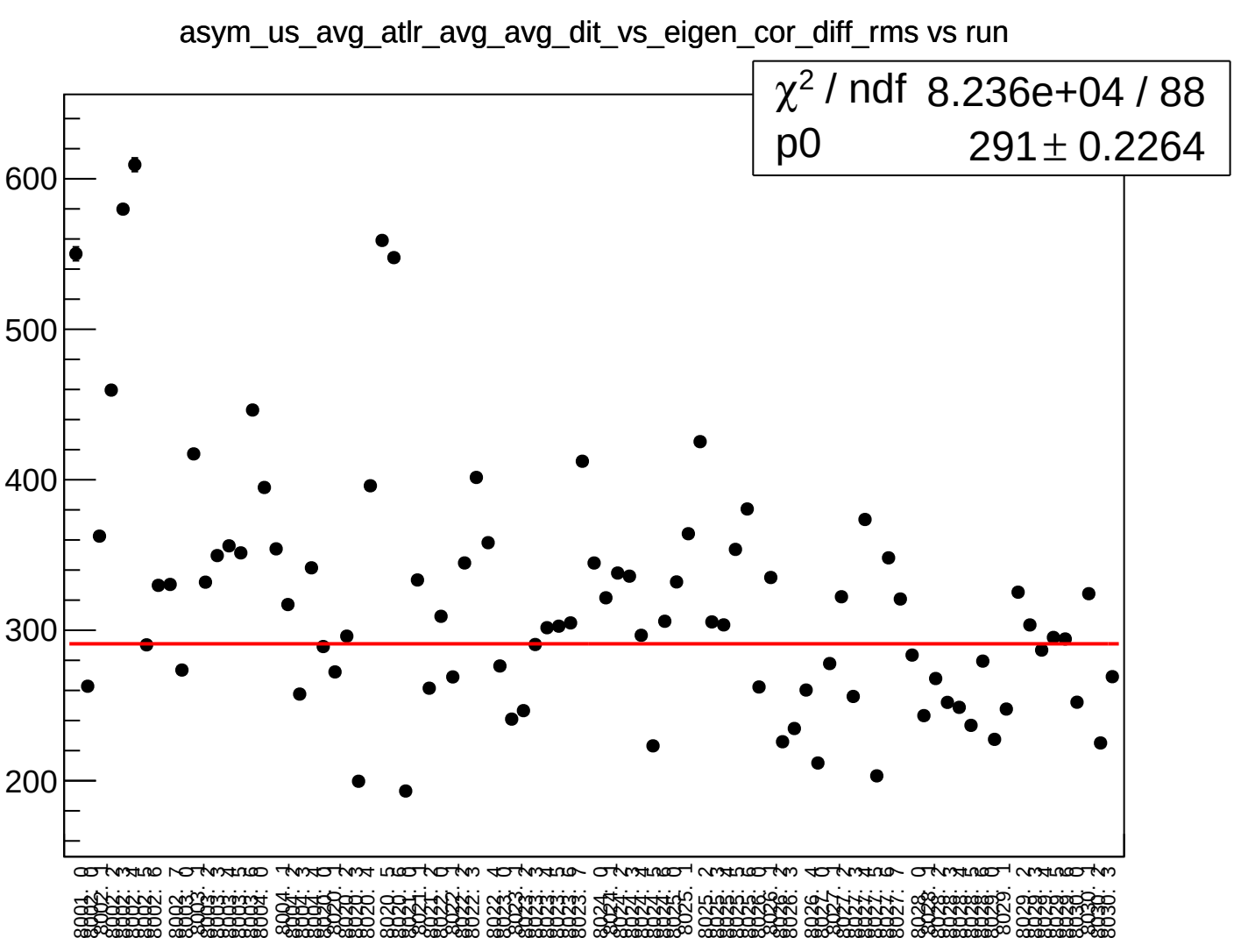

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 125 / 88
p0 0.2384 ± 0.3201
pull
Entries 89
Mean 69.74
Std Dev 0

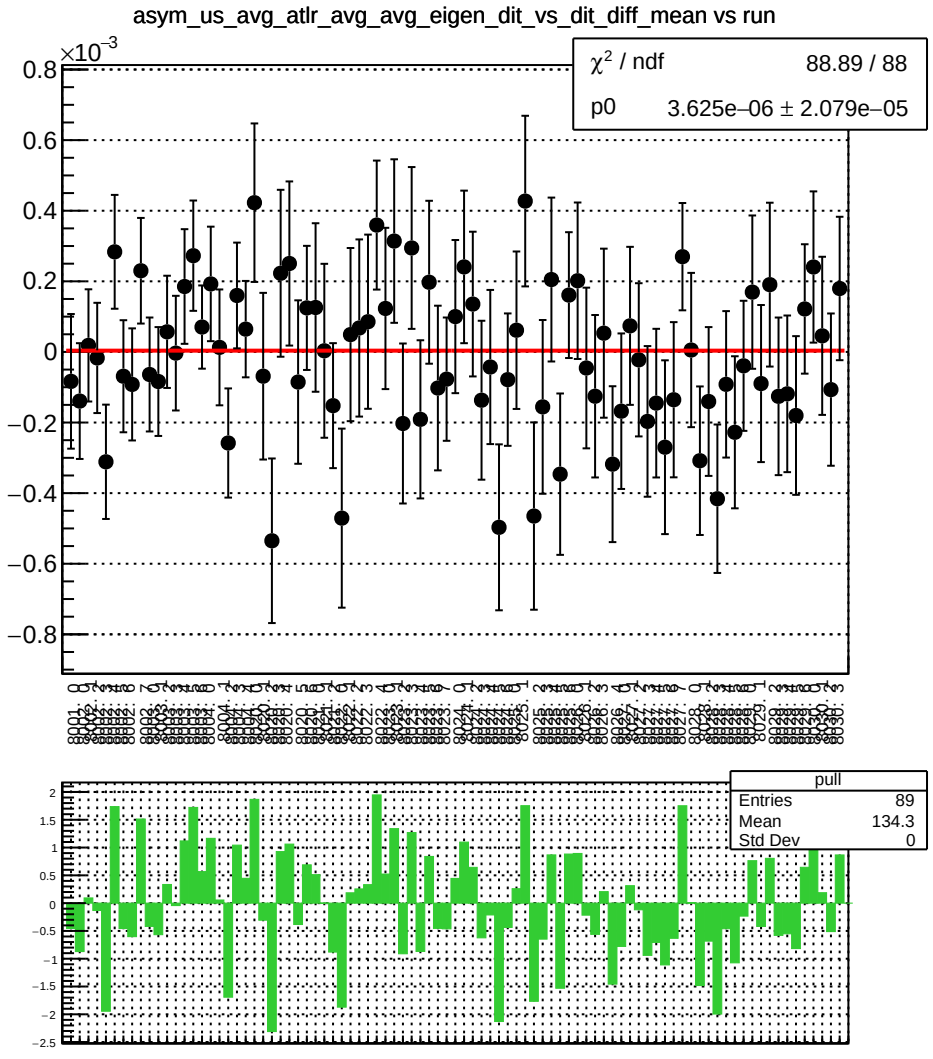

pull1D
Entries 89
Mean −0.01338
Std Dev 1.185

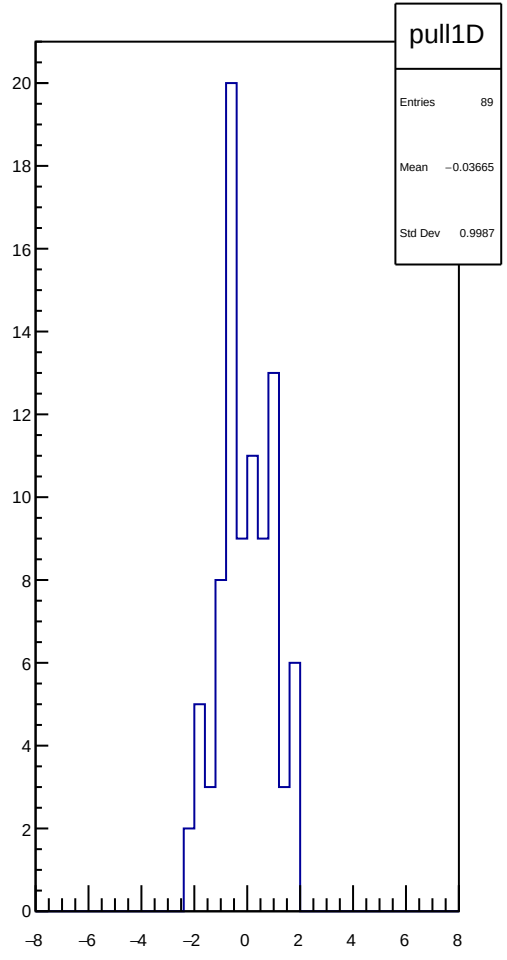

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.236e+04 / 88
p0 291 ± 0.2264
600
500
400
300
200

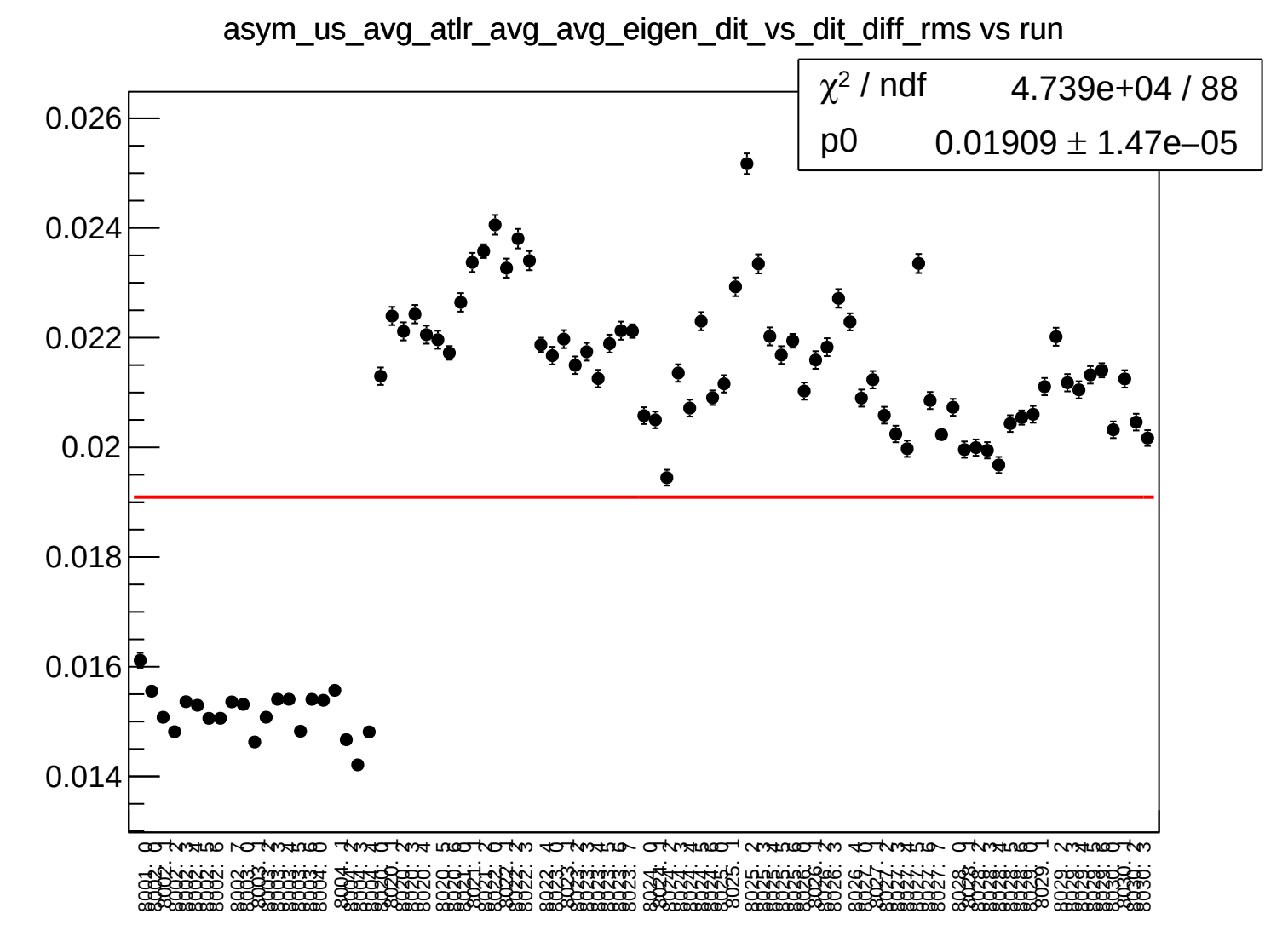

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 125 / 88
p0 0.2384 ± 0.3201
pull
Entries 89
Mean 69.74
Std Dev 0

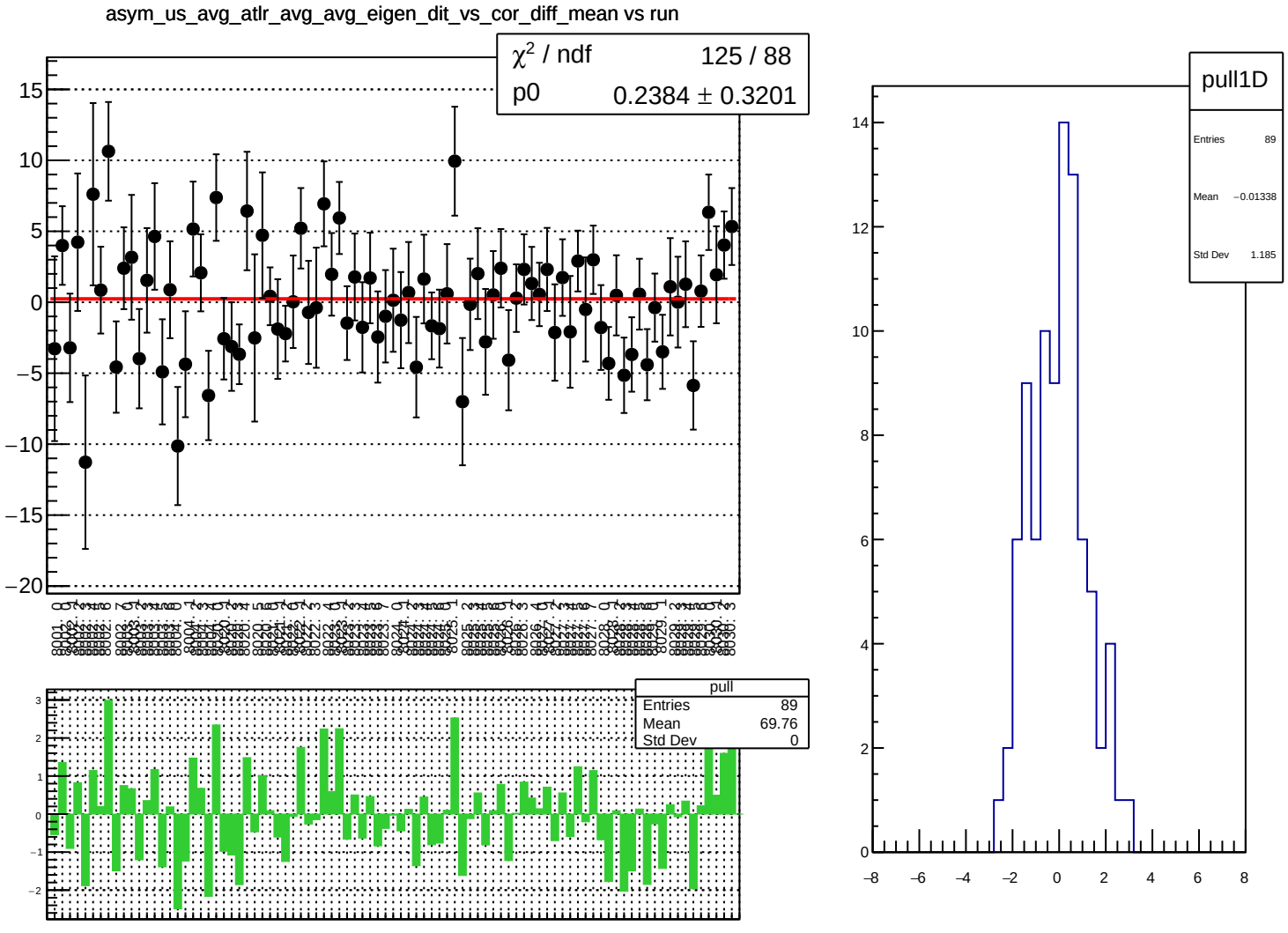

pull1D
Entries 89
Mean −0.01338
Std Dev 1.185

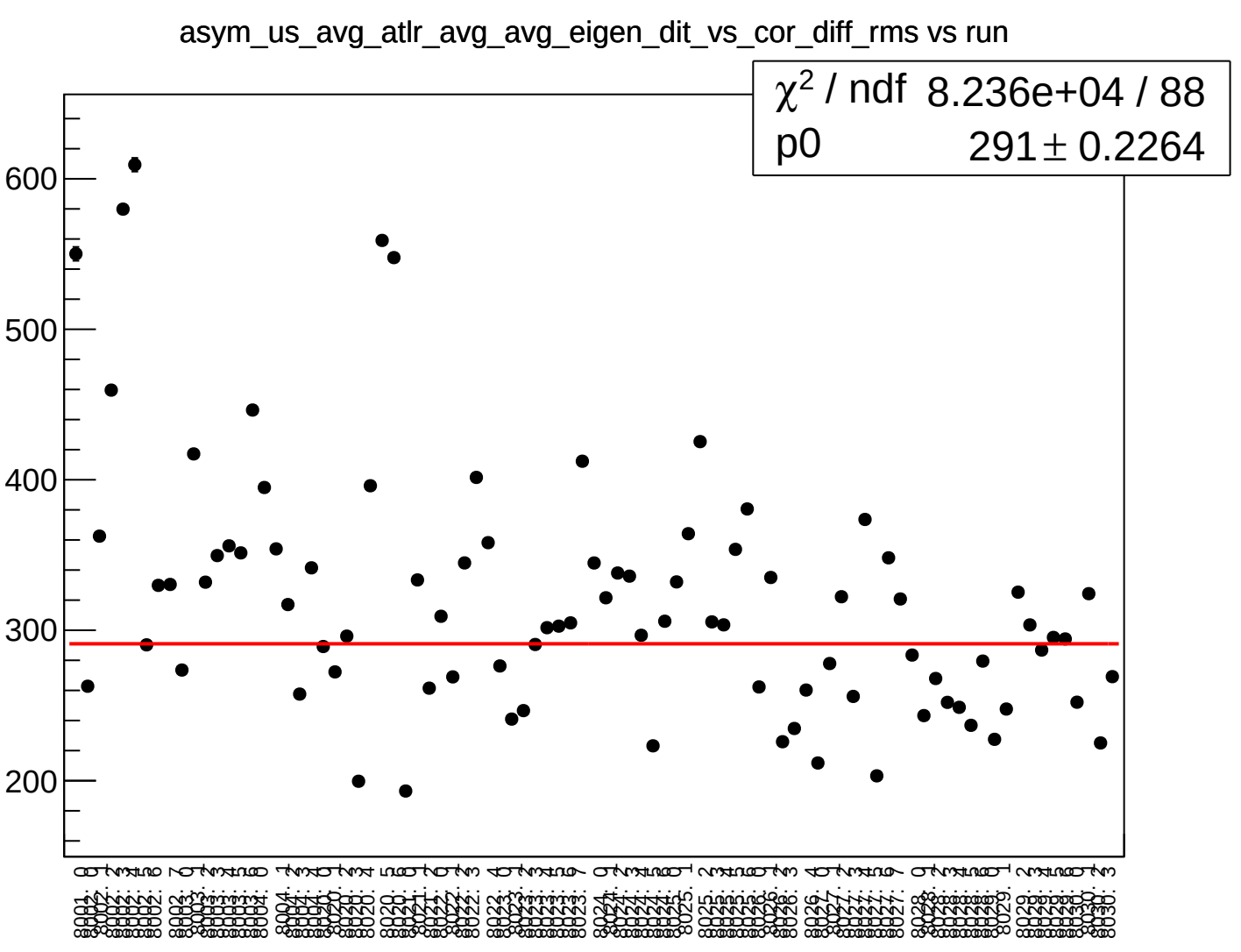

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.236e+04 / 88
p0 291 ± 0.2264
600
500
400
300
200

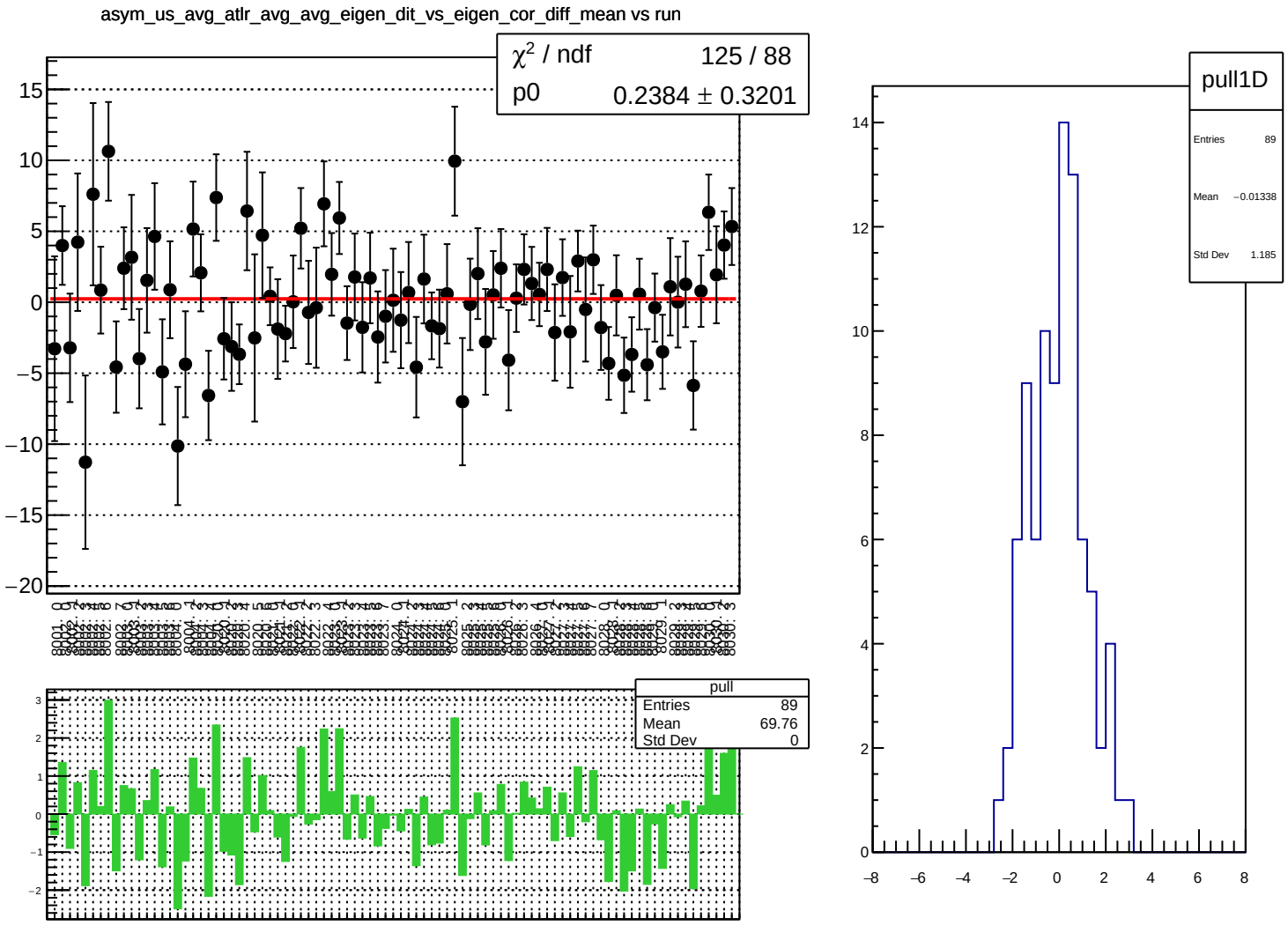

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 88.89 / 88
p0 3.625e−06 ± 2.079e−05
pull
Entries 89
Mean 134.3
Std Dev 0

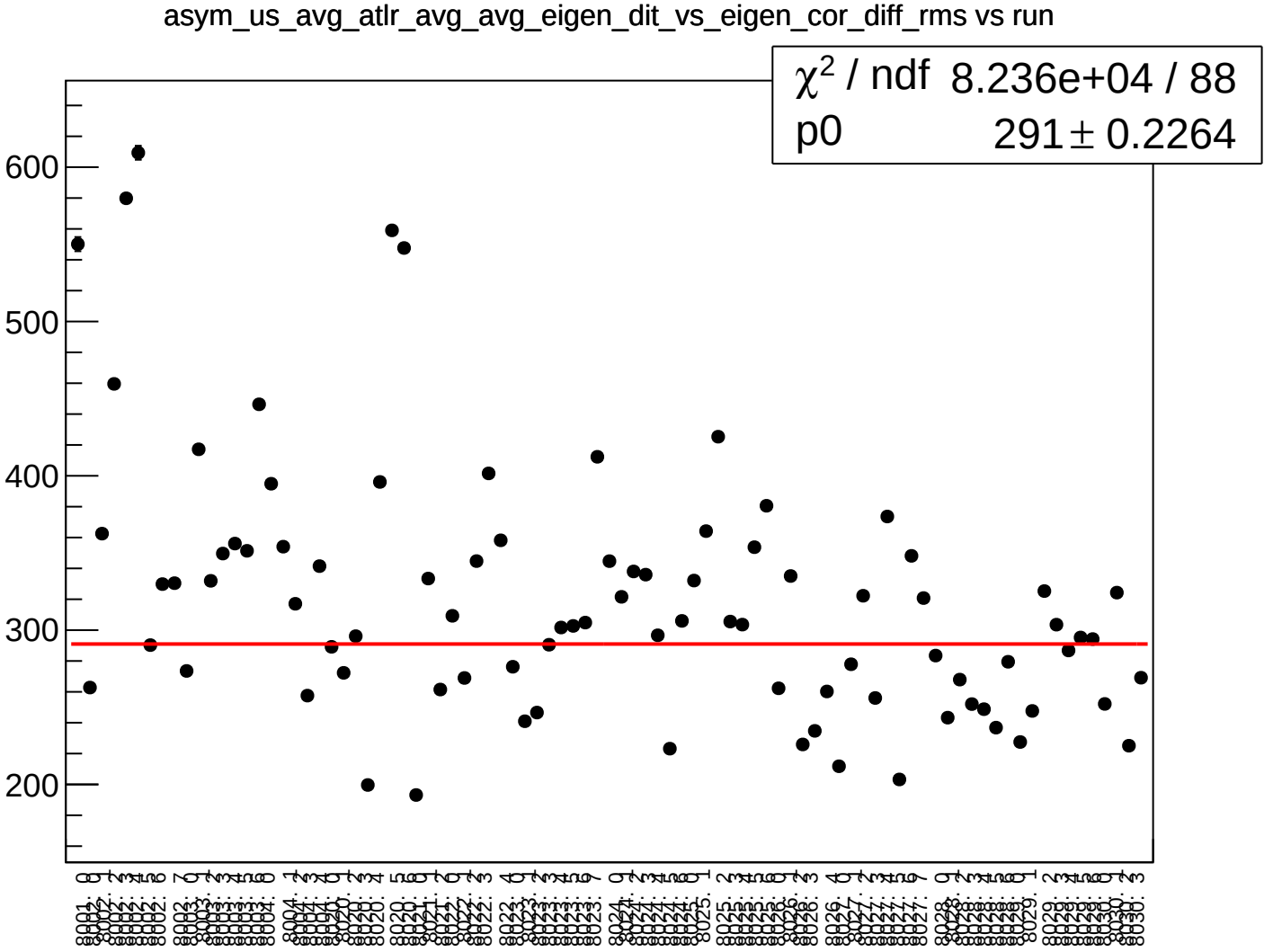

pull1D
Entries 89
Mean −0.03665
Std Dev 0.9987

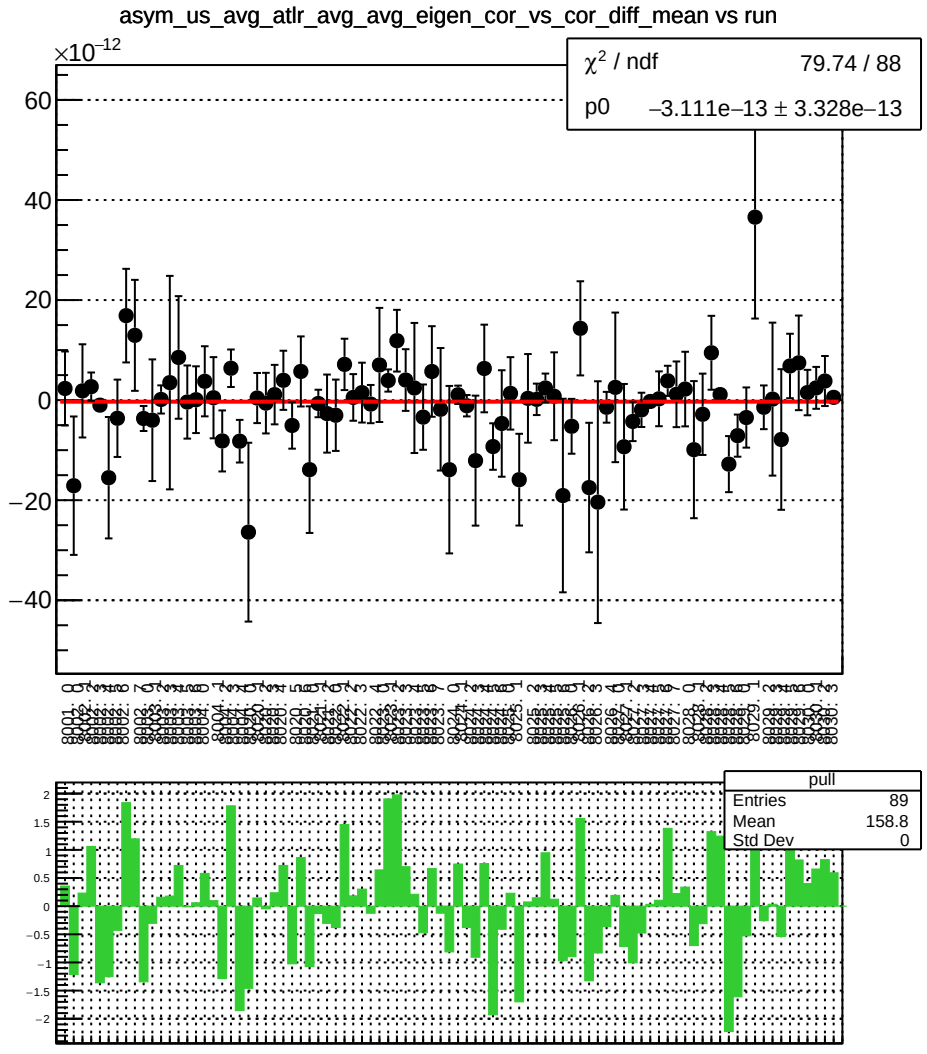

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.739e+04 / 88
p0 0.01909 ± 1.47e−05
0.026
0.024
0.022
0.02
0.018
0.016
0.014

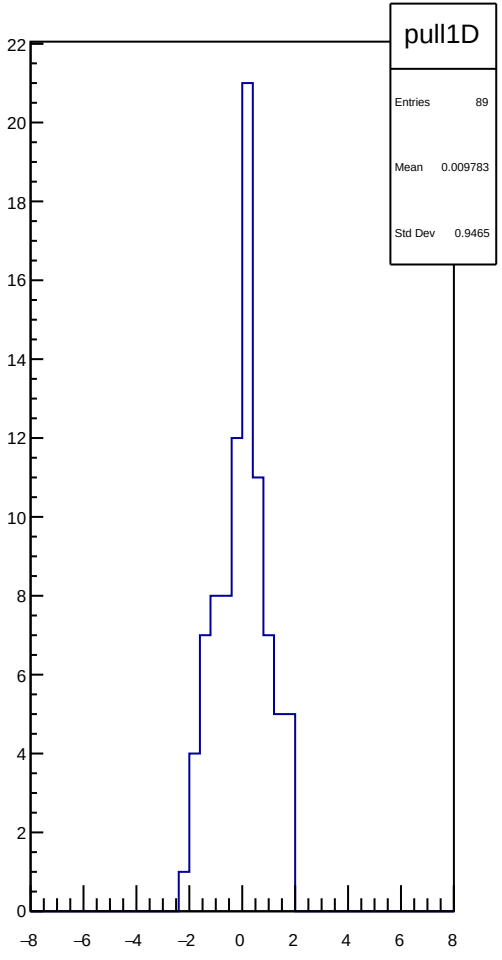

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 125 / 88
p0 0.2384 ± 0.3201
pull
Entries 89
Mean 69.76
Std Dev 0
pull1D
Entries 89
Mean −0.01338
Std Dev 1.185

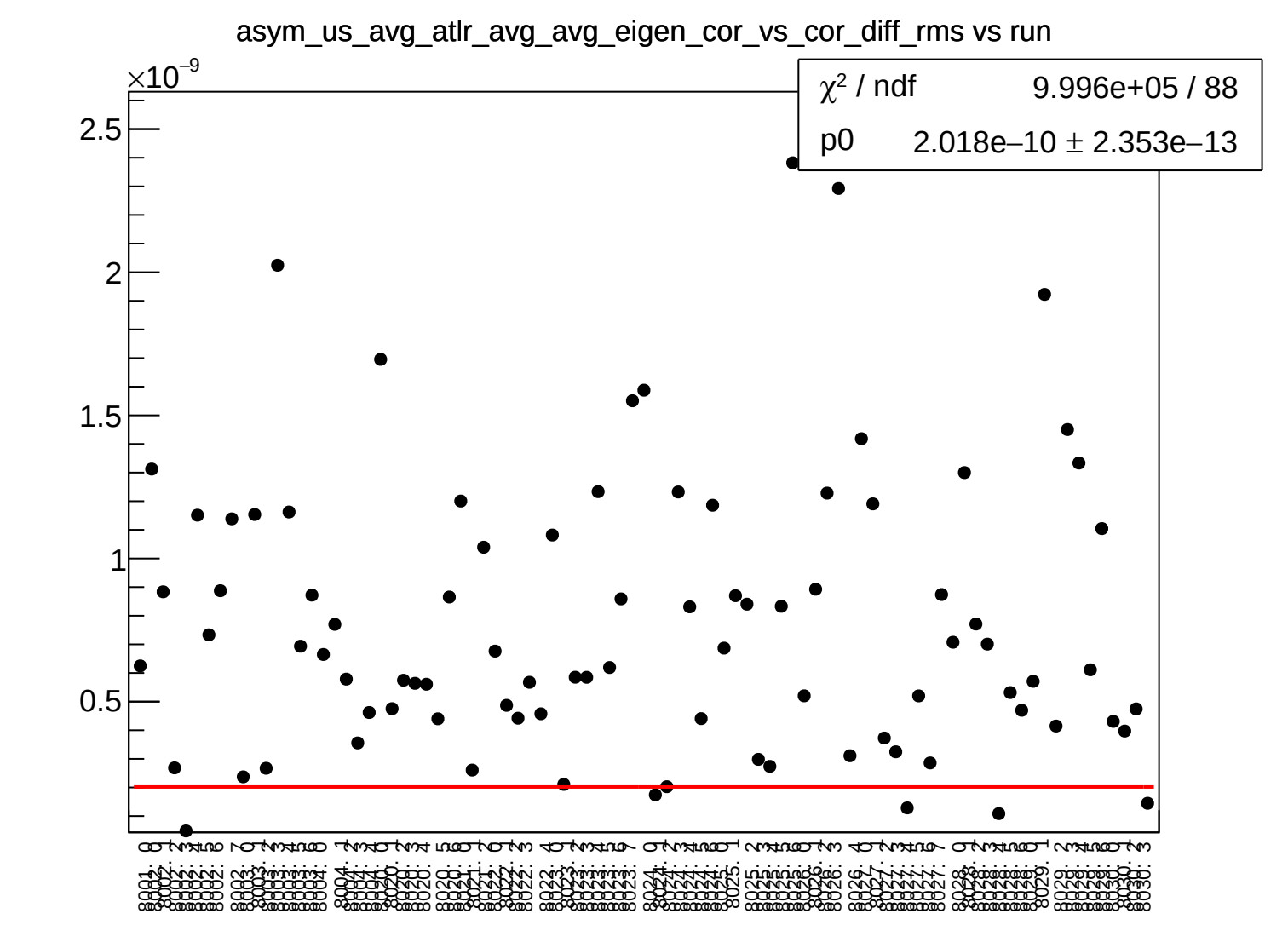

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.236e+04 / 88
p0 291 ± 0.2264
600
500
400
300
200

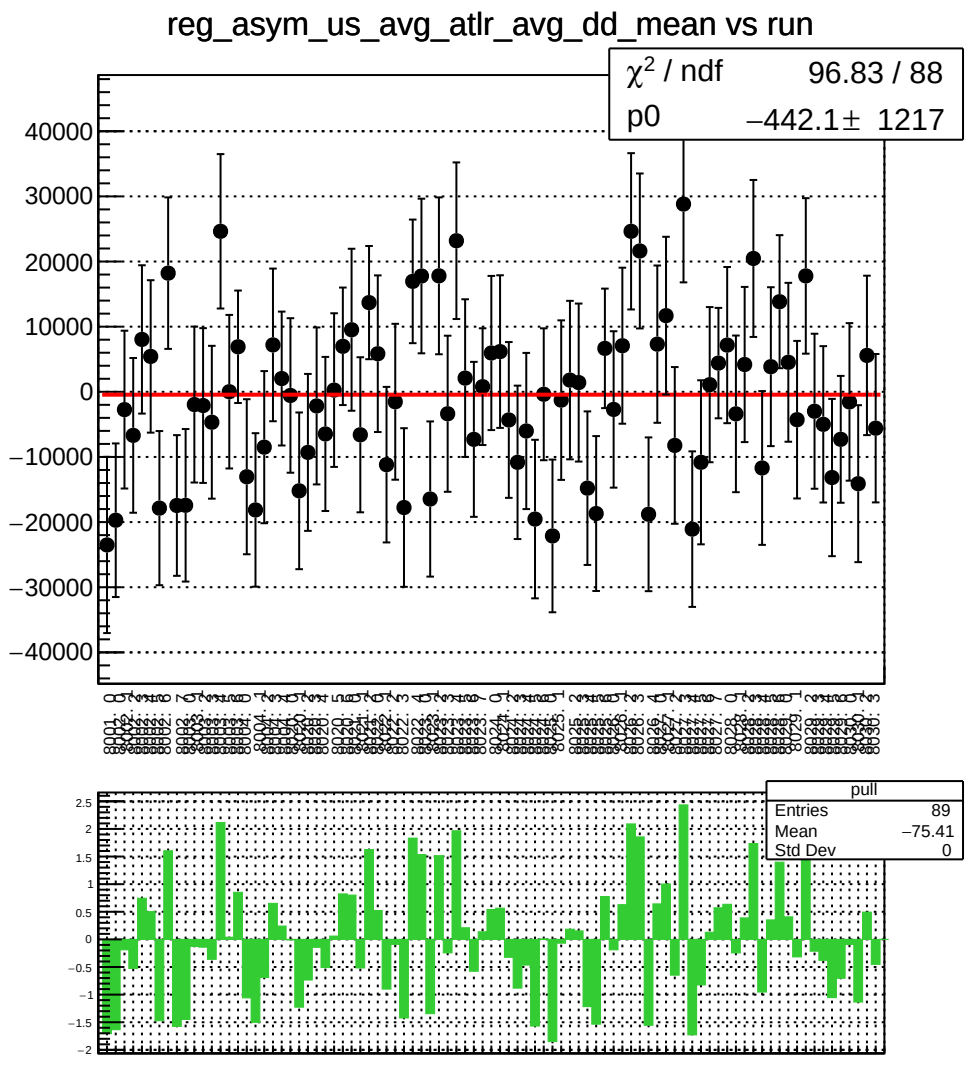

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 125 / 88
p0 0.2384 ± 0.3201
pull
Entries 89
Mean 69.76
Std Dev 0
pull1D
Entries 89
Mean −0.01338
Std Dev 1.185

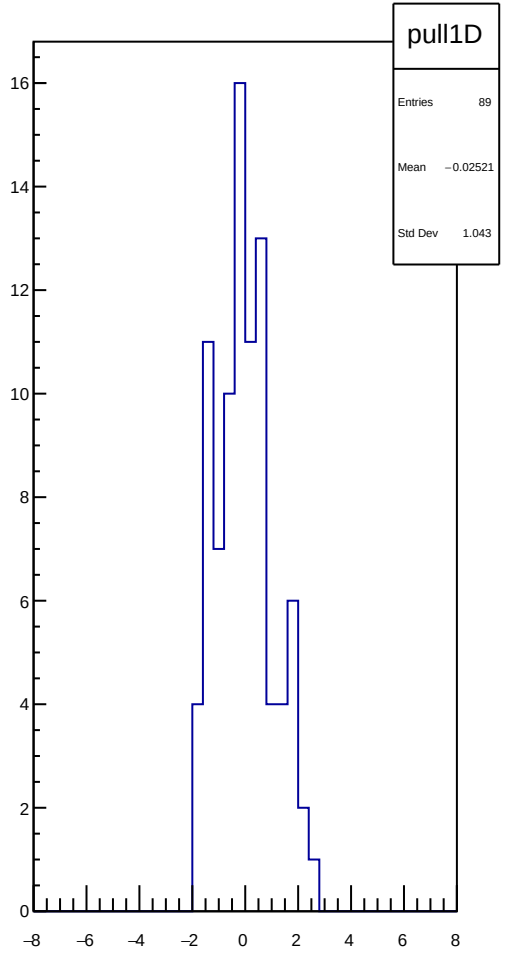

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.236e+04 / 88
p0 291 ± 0.2264
600
500
400
300
200

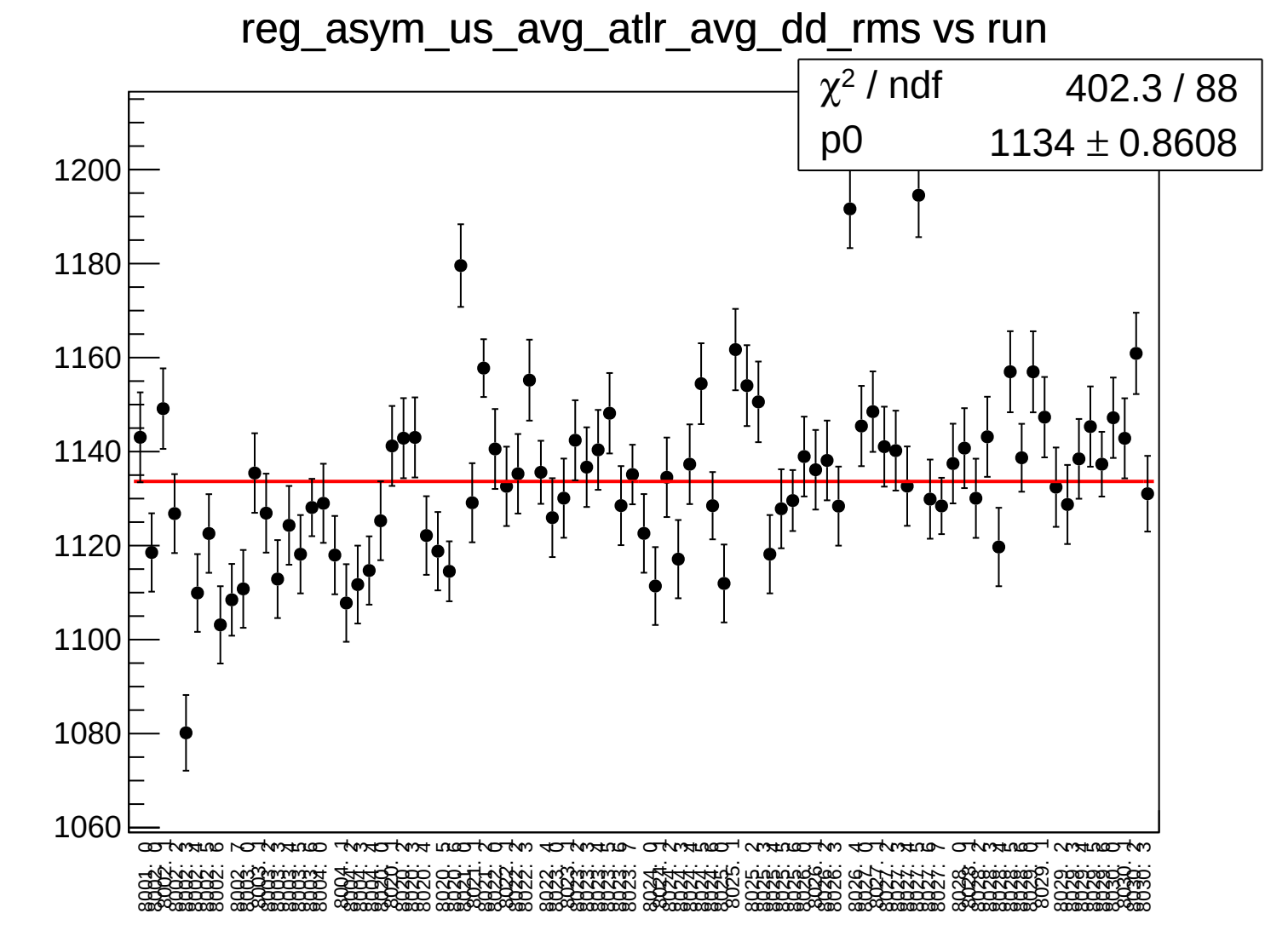

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.74 / 88
p0 −3.111e−13 ± 3.328e−13
pull
Entries 89
Mean 158.8
Std Dev 0

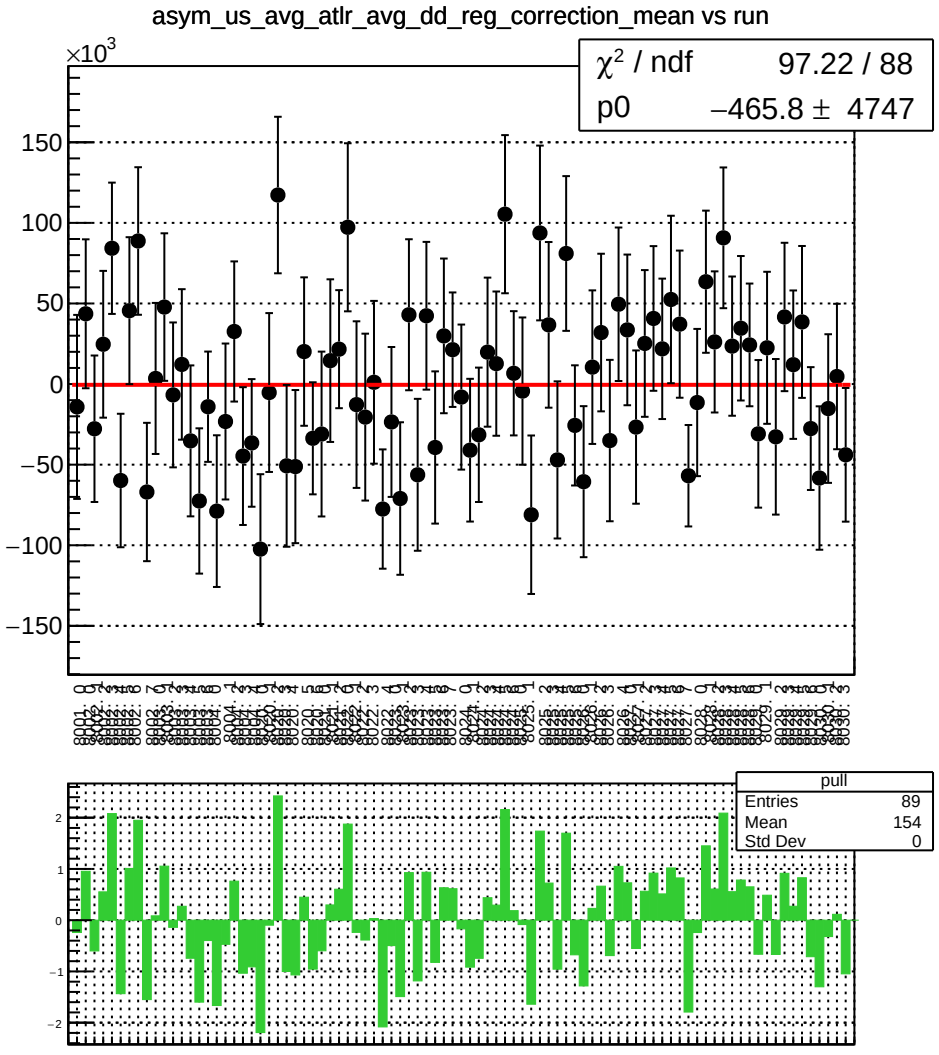

pull1D
Entries 89
Mean 0.009783
Std Dev 0.9465

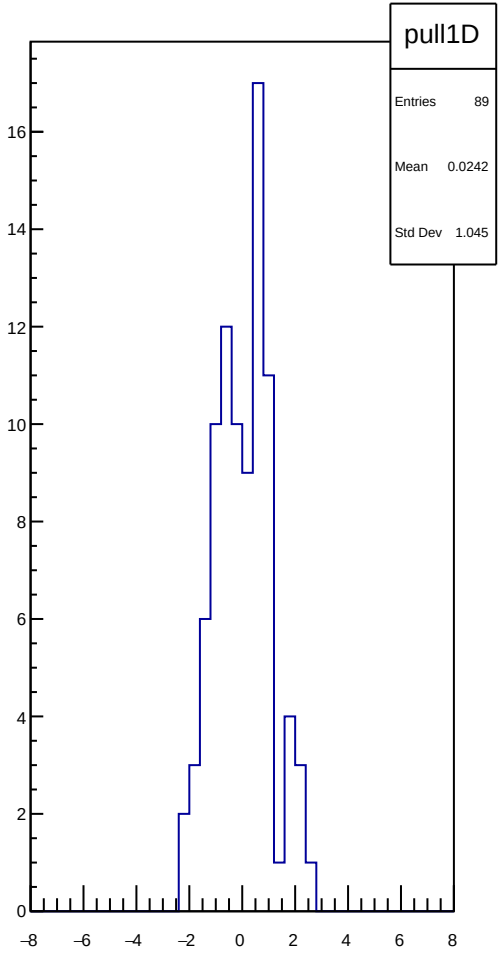

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.996e+05 / 88
p0 2.018e−10 ± 2.353e−13
2.5
2
1.5
1
0.5

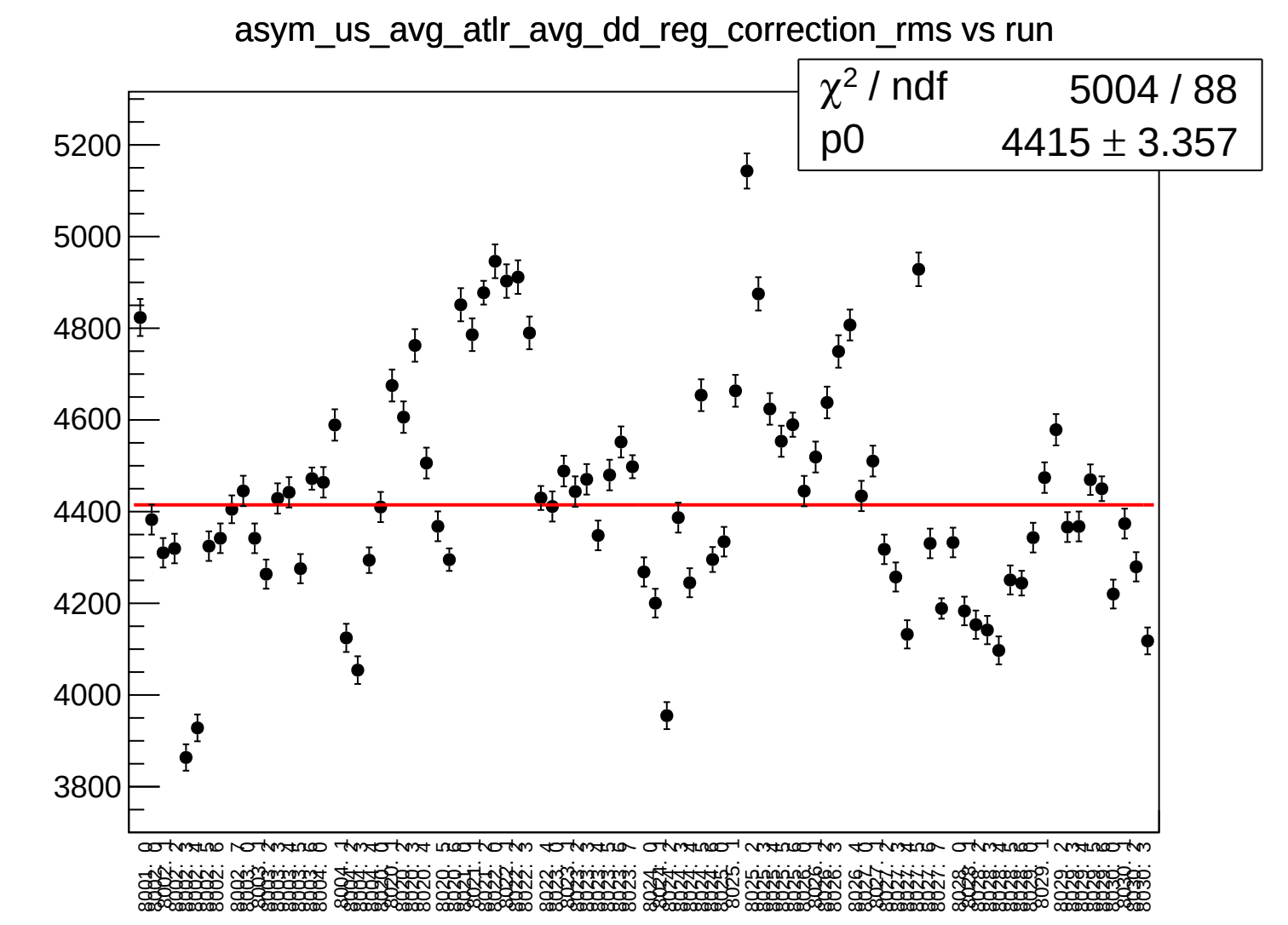

reg_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 96.83 / 88
p0 −442.1± 1217
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean −75.41
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

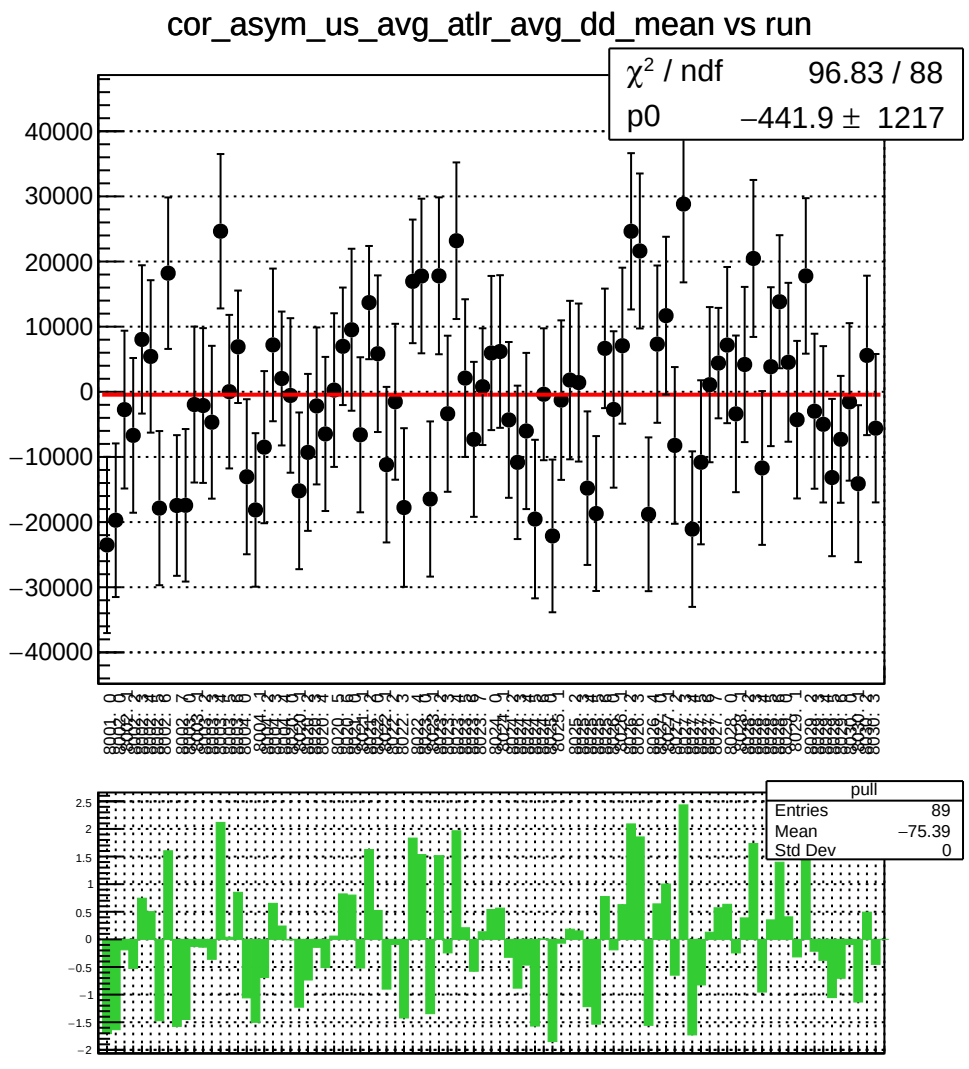

pull1D
Entries 89
Mean −0.02521
Std Dev 1.043
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

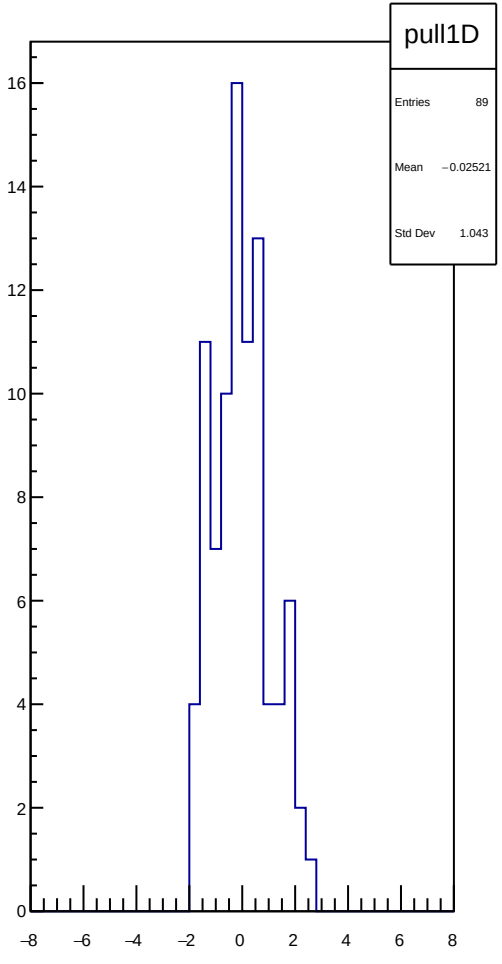

reg_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 402.3 / 88
p0 1134 ± 0.8608
1200
1180
1160
1140
1120
1100
1080
1060

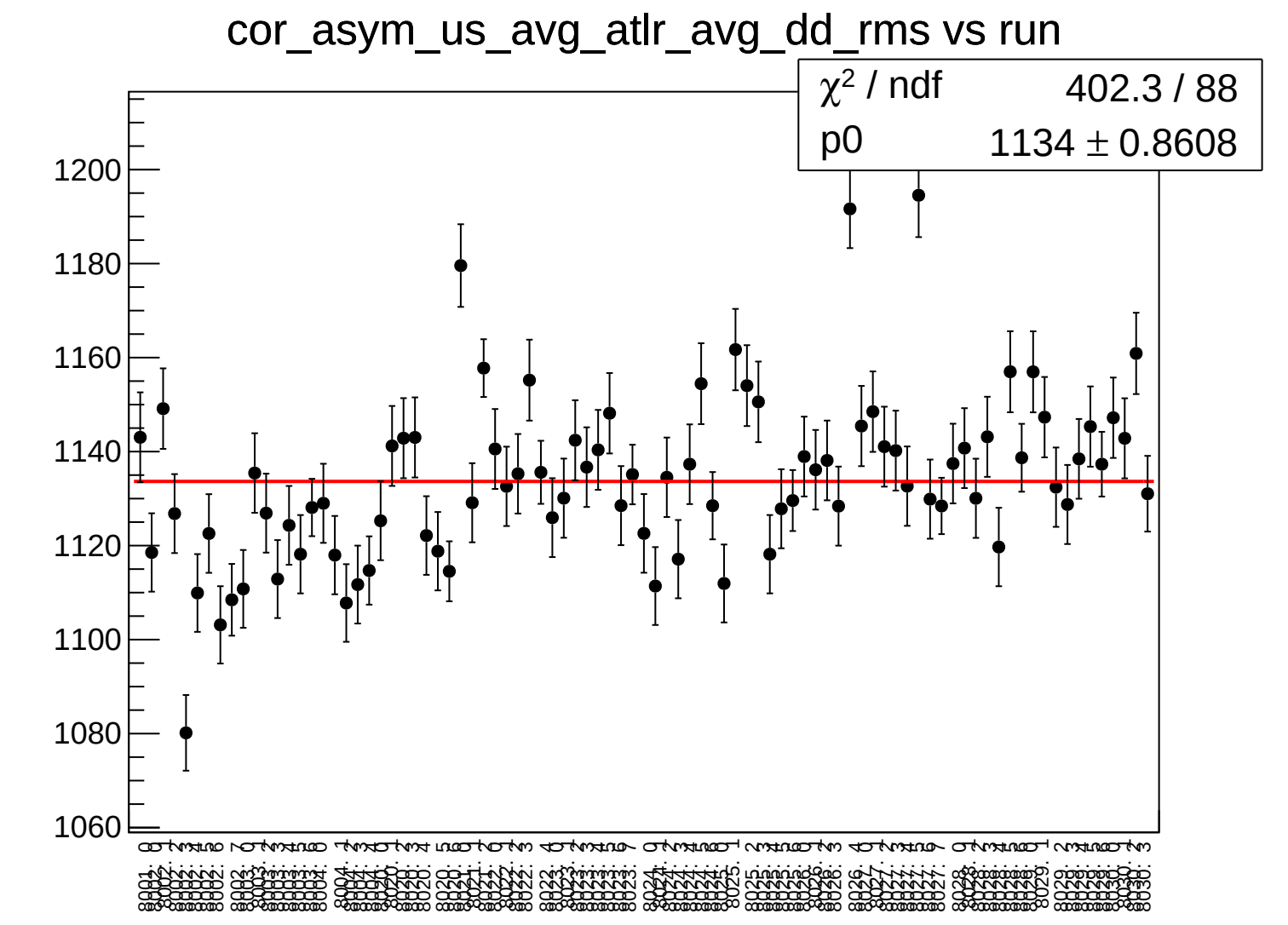

asym_us_avg_atlr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 97.22 / 88
p0 −465.8 ± 4747
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean 154
Std Dev 0
2
1
0
−1
−2

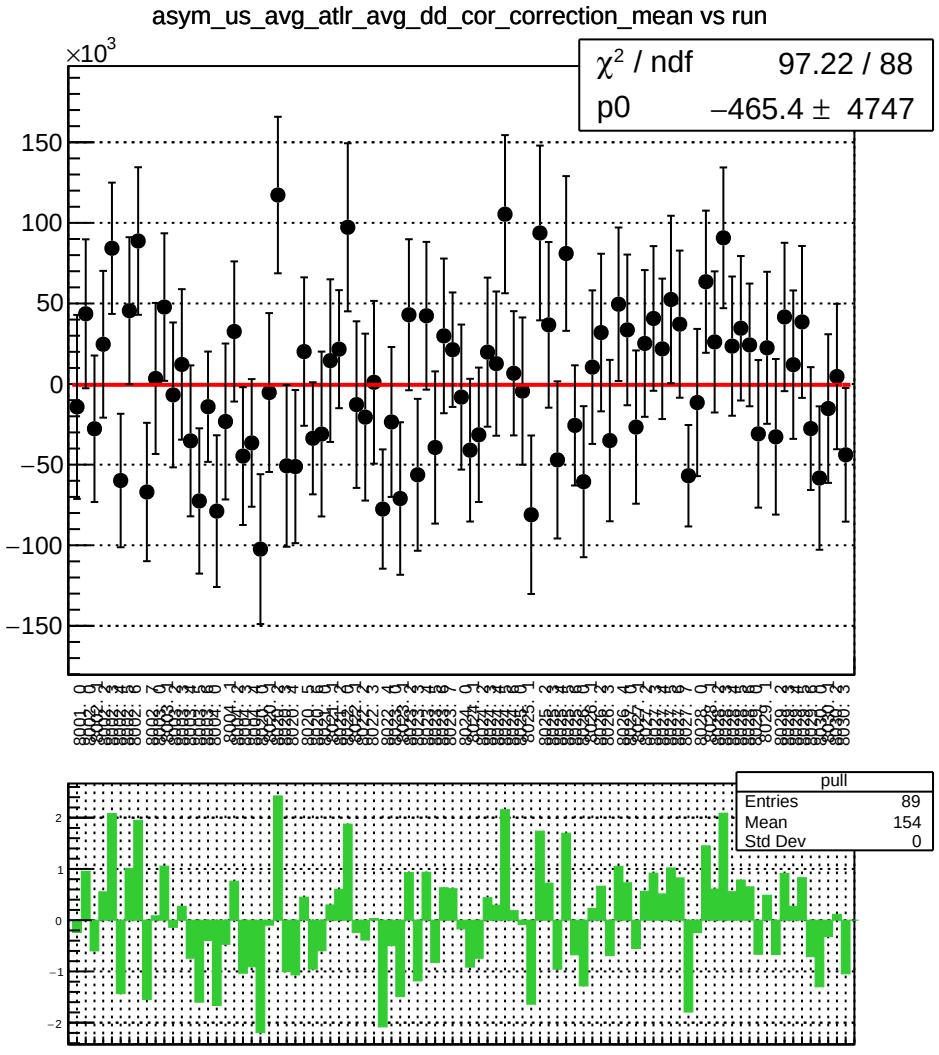

pull1D
Entries 89
Mean 0.0242
Std Dev 1.045
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

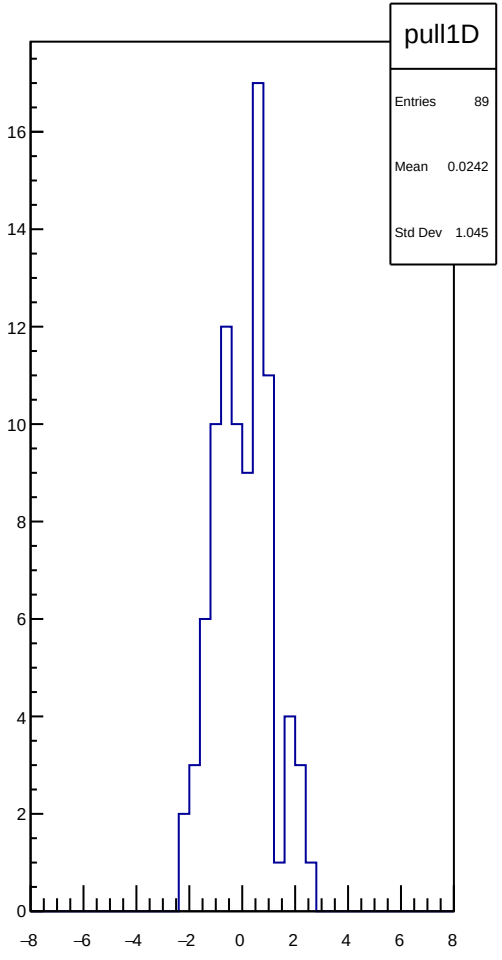

asym_us_avg_atlr_avg_dd_reg_correction_rms vs run
χ² / ndf 5004 / 88
p0 4415 ± 3.357
5200
5000
4800
4600
4400
4200
4000
3800

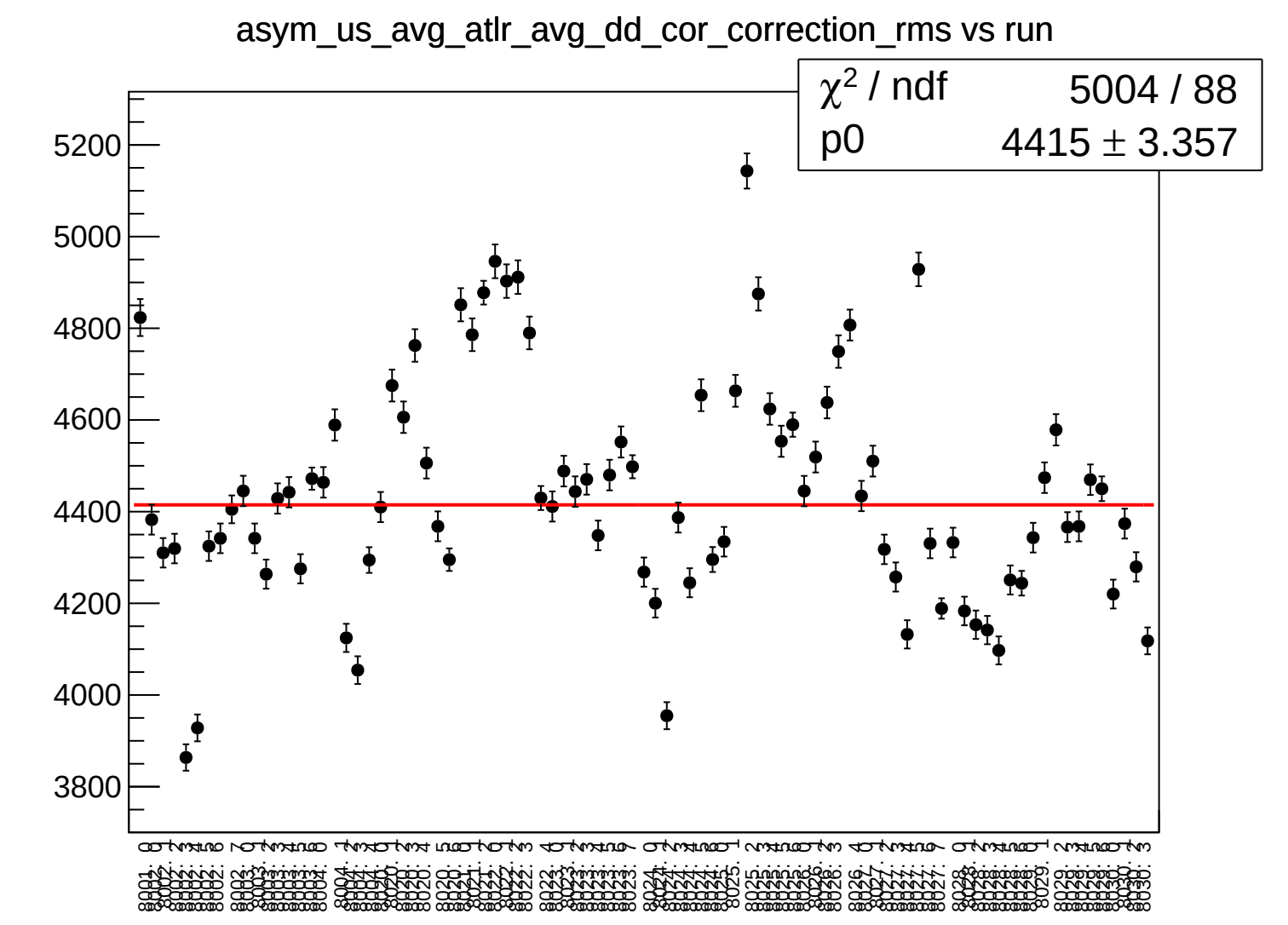

cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 96.83 / 88
p0 −441.9 ± 1217
pull
Entries 89
Mean −75.39
Std Dev 0

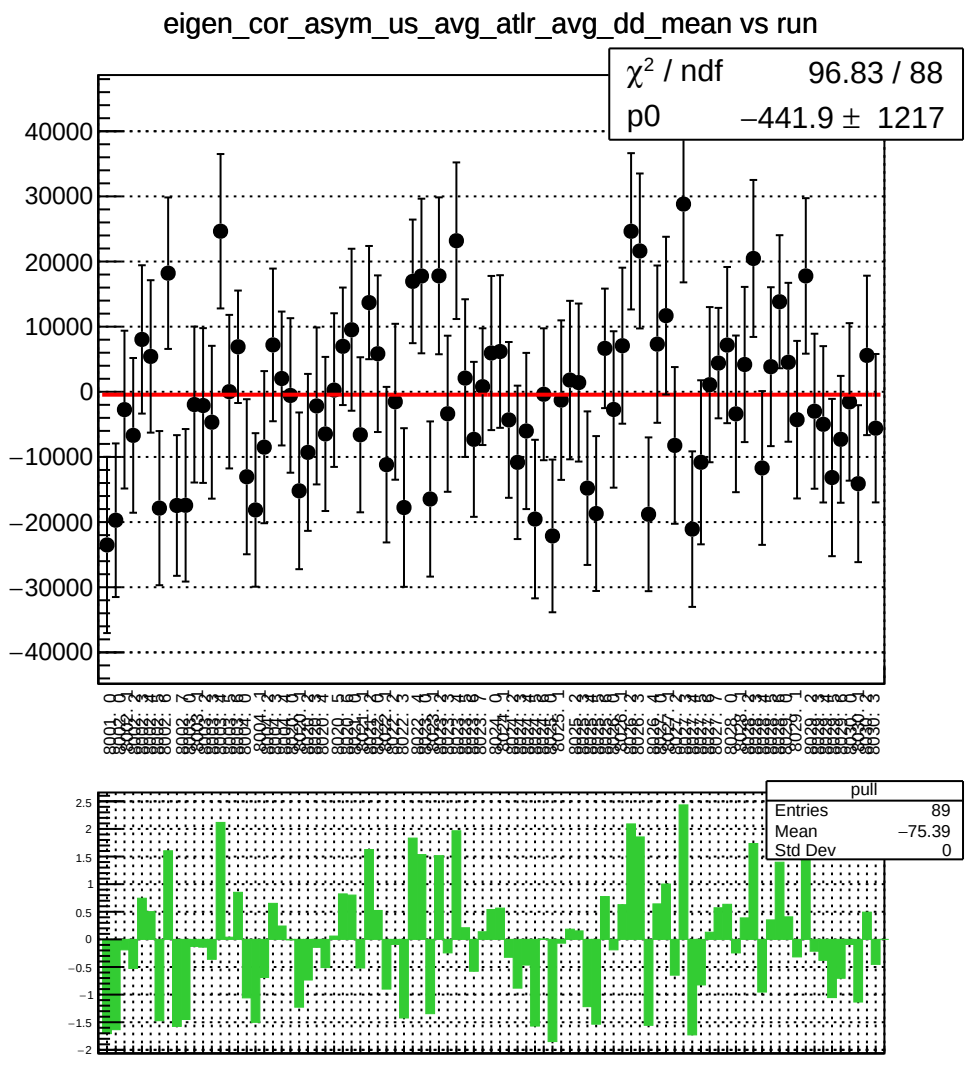

pull1D
Entries 89
Mean −0.02521
Std Dev 1.043

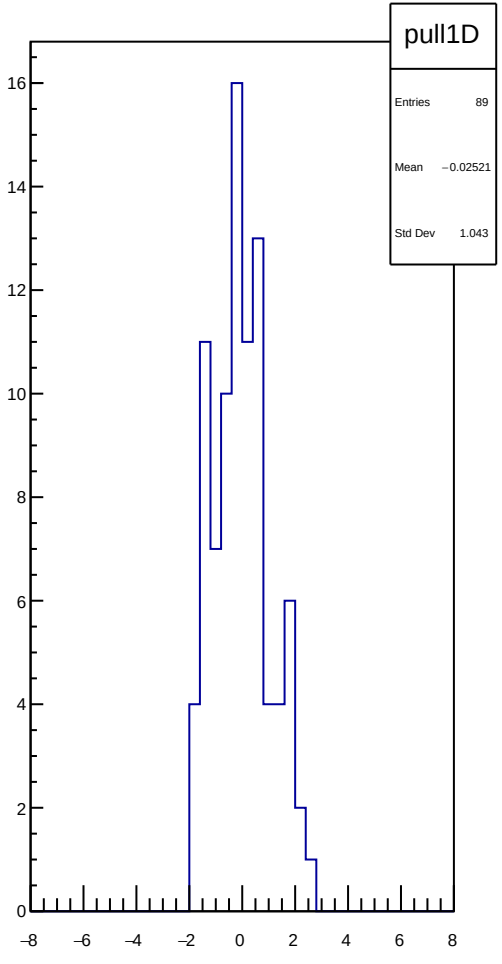

cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 402.3 / 88
p0 1134 ± 0.8608
1200
1180
1160
1140
1120
1100
1080
1060

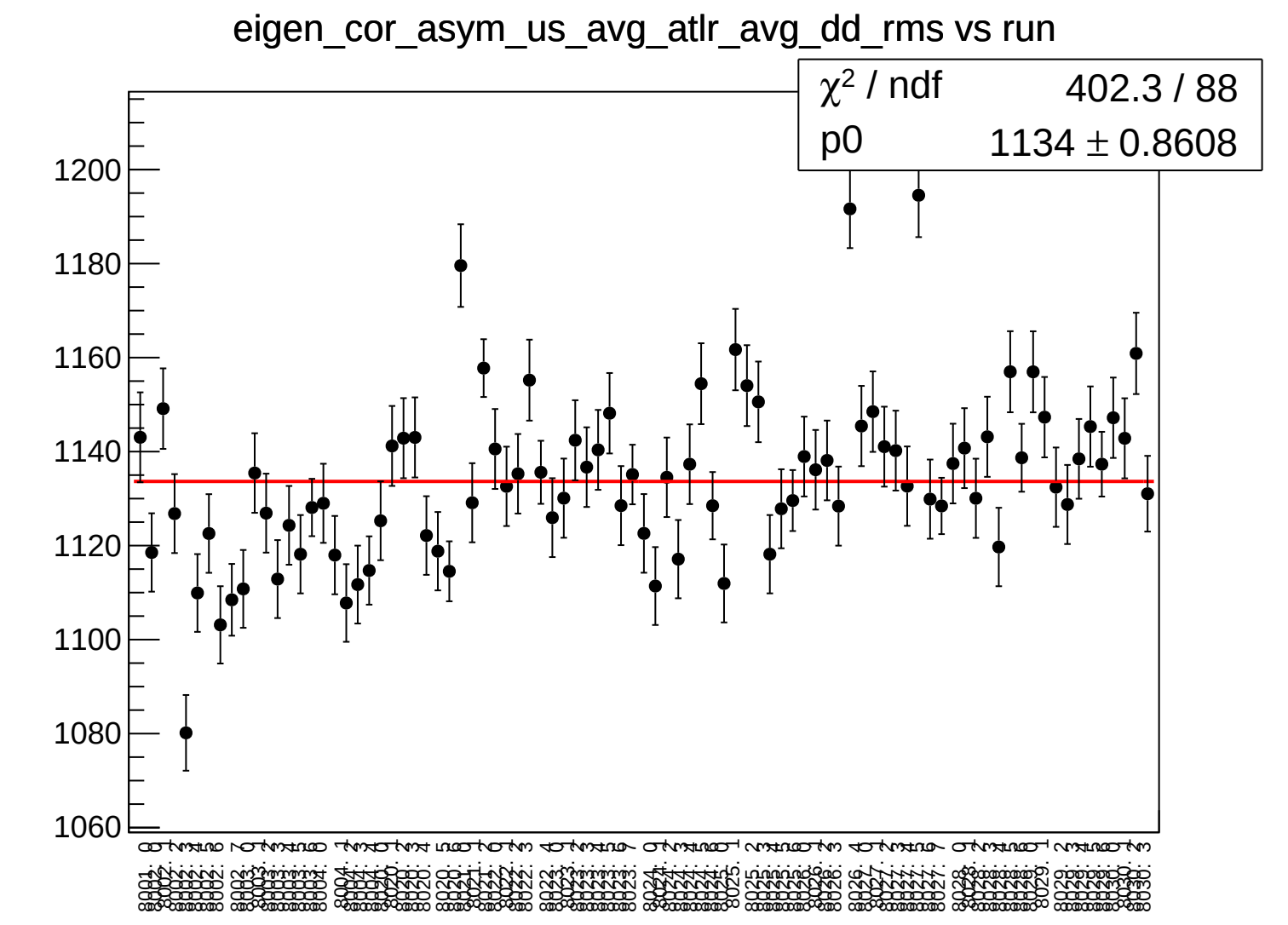

asym_us_avg_atlr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 97.22 / 88
p0 −465.4 ± 4747
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean 154
Std Dev 0
2
1
0
−1
−2

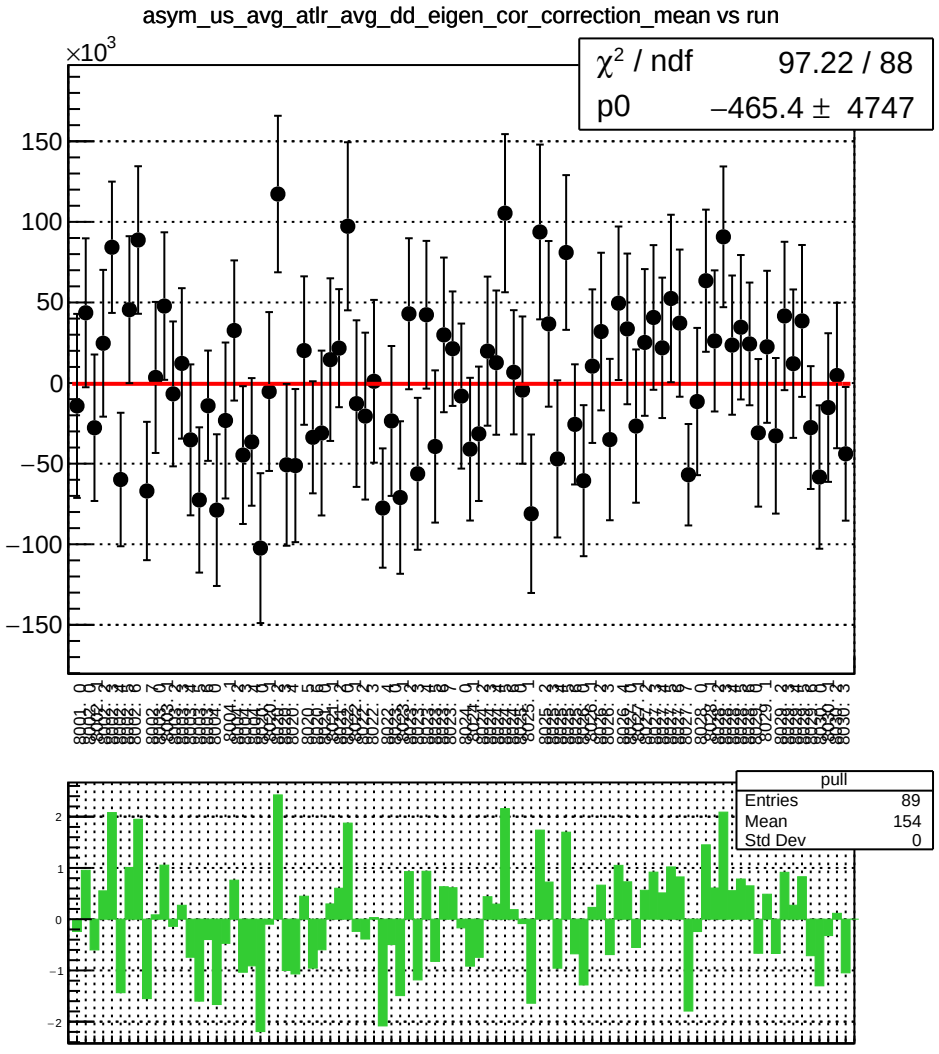

pull1D
Entries 89
Mean 0.0242
Std Dev 1.045
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

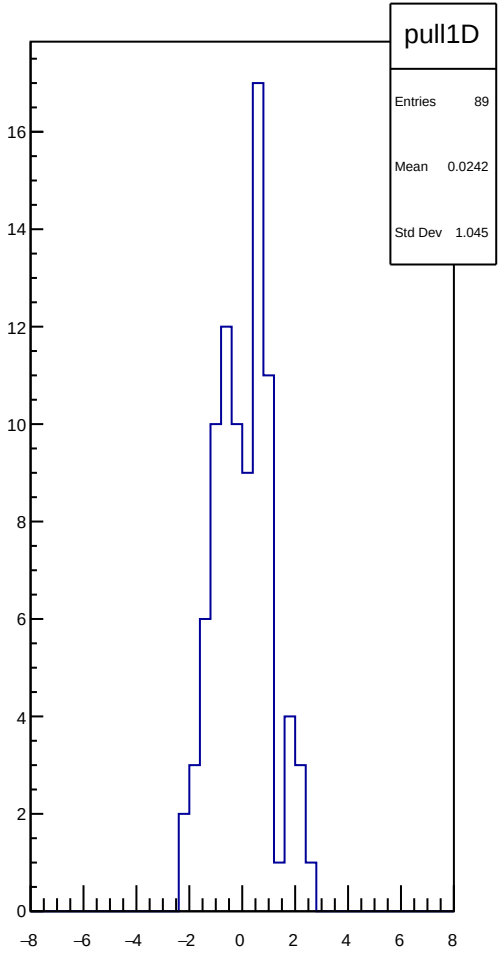

asym_us_avg_atlr_avg_dd_cor_correction_rms vs run
χ² / ndf 5004 / 88
p0 4415 ± 3.357
5200
5000
4800
4600
4400
4200
4000
3800

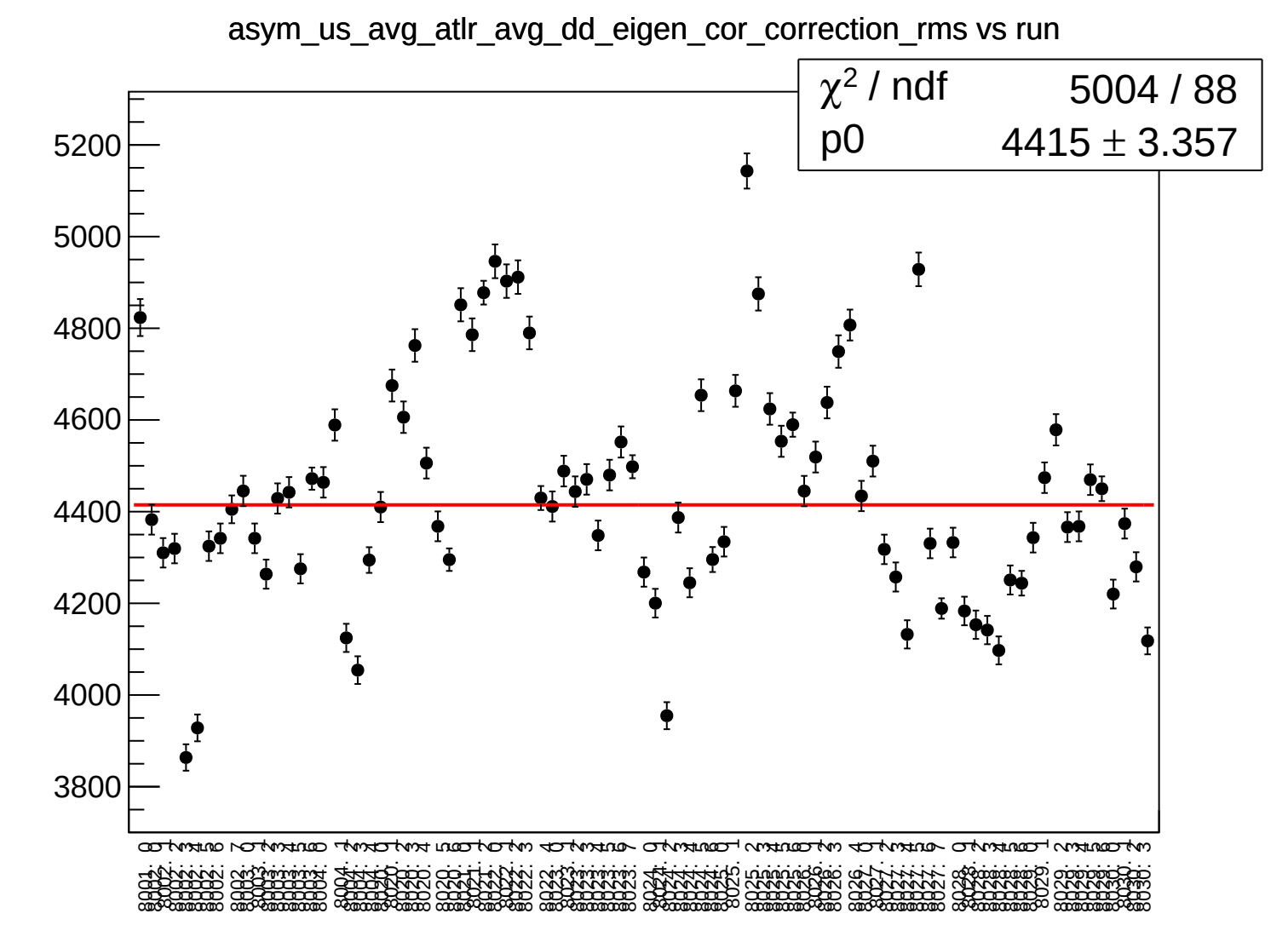

eigen_cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 96.83 / 88
p0 −441.9 ± 1217
pull
Entries 89
Mean −75.39
Std Dev 0

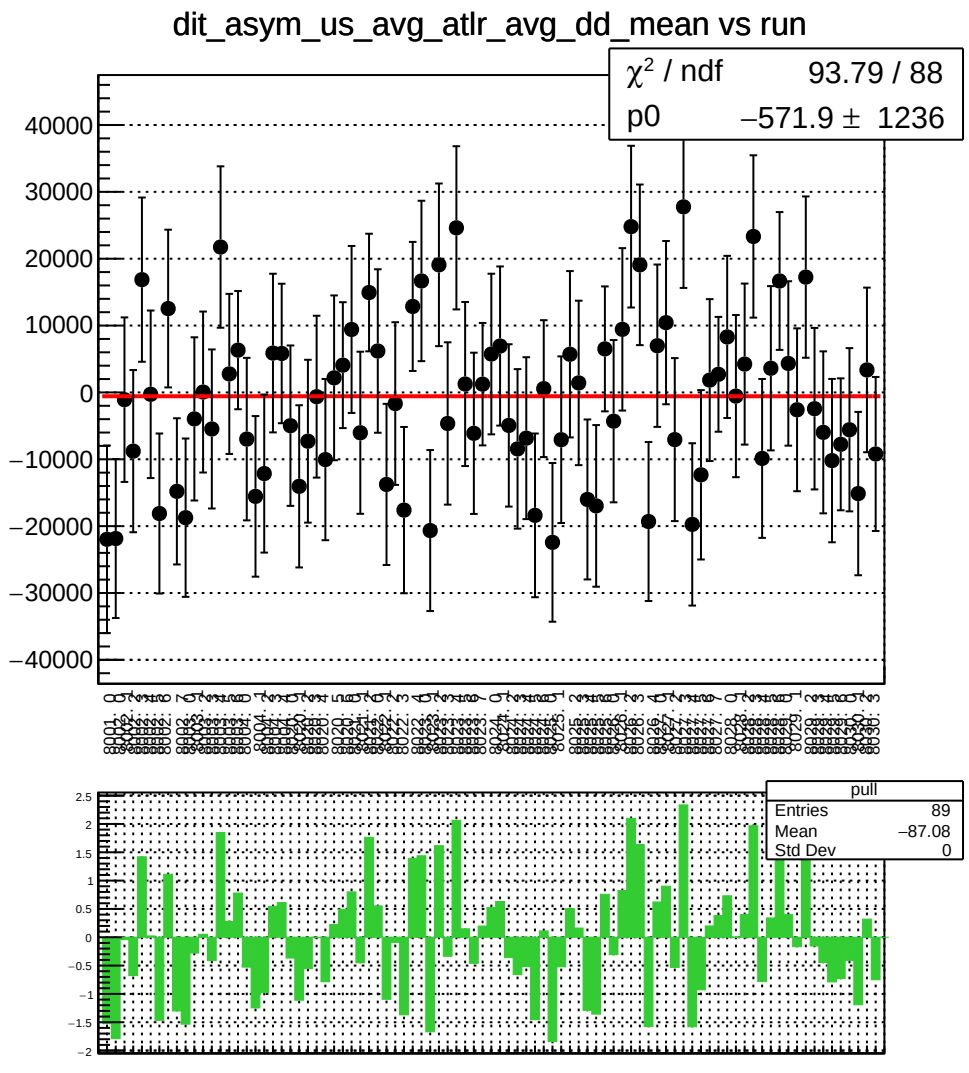

pull1D
Entries 89
Mean −0.02521
Std Dev 1.043

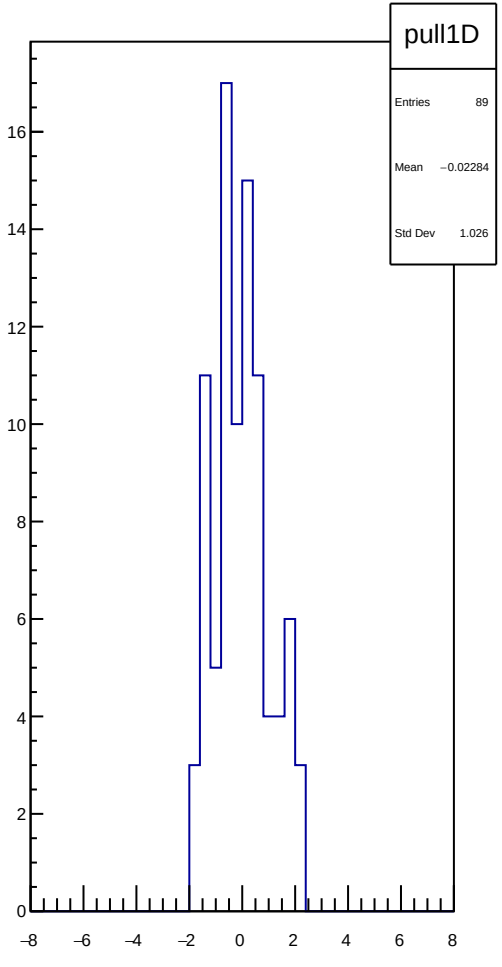

eigen_cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 402.3 / 88
p0 1134 ± 0.8608
1200
1180
1160
1140
1120
1100
1080
1060

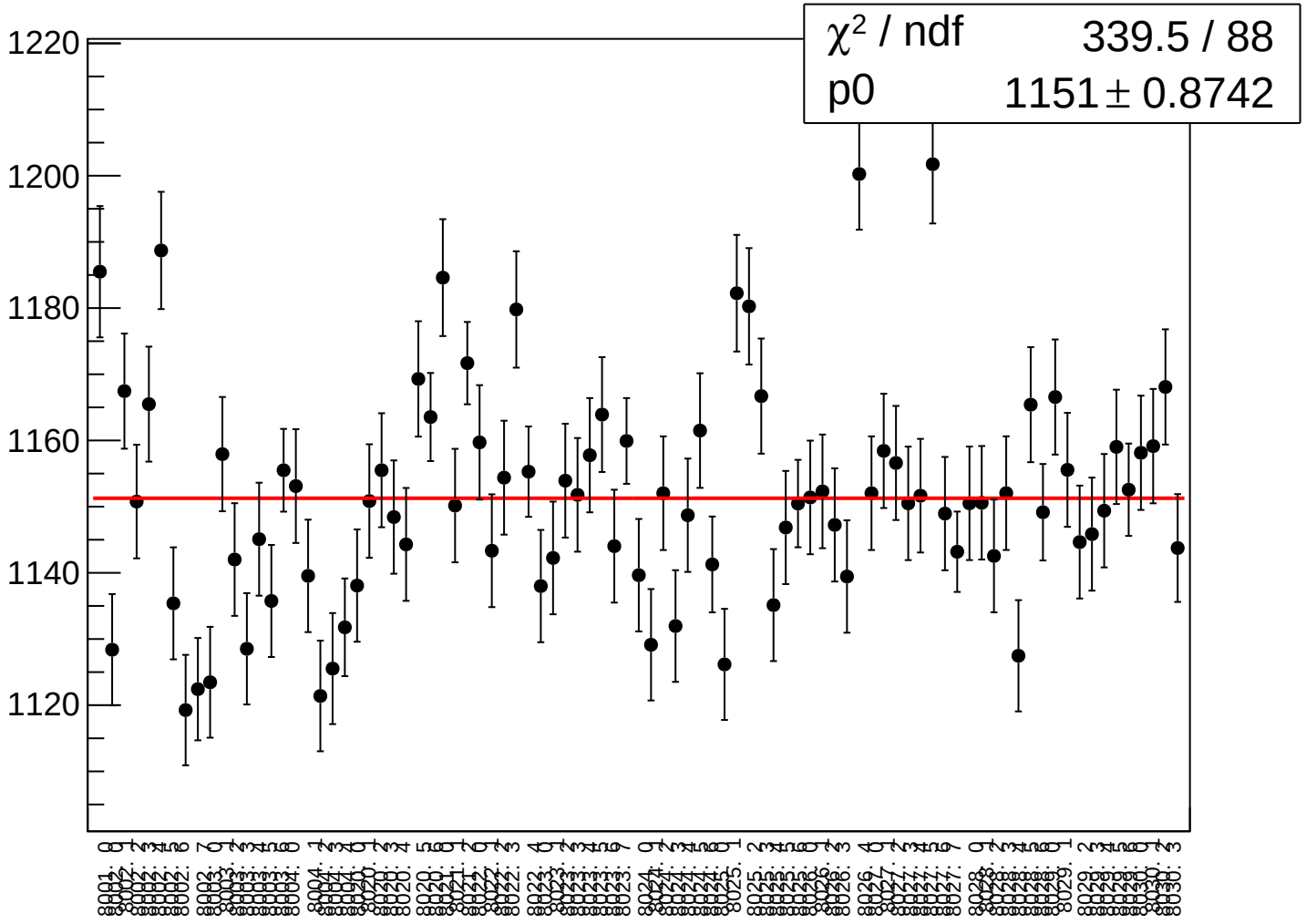

asym_us_avg_atlr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 97.22 / 88
p0 −465.4 ± 4747
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean 154
Std Dev 0
2
1
0
−1
−2

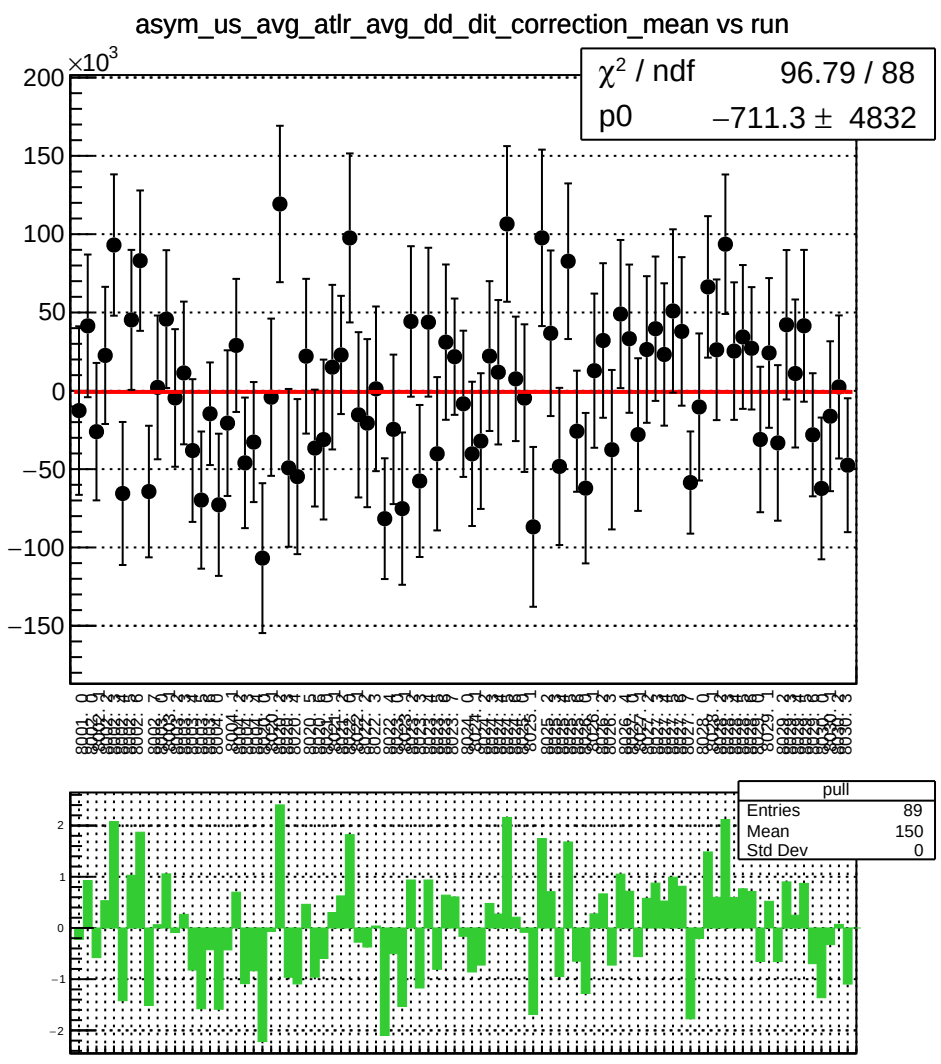

pull1D
Entries 89
Mean 0.0242
Std Dev 1.045
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

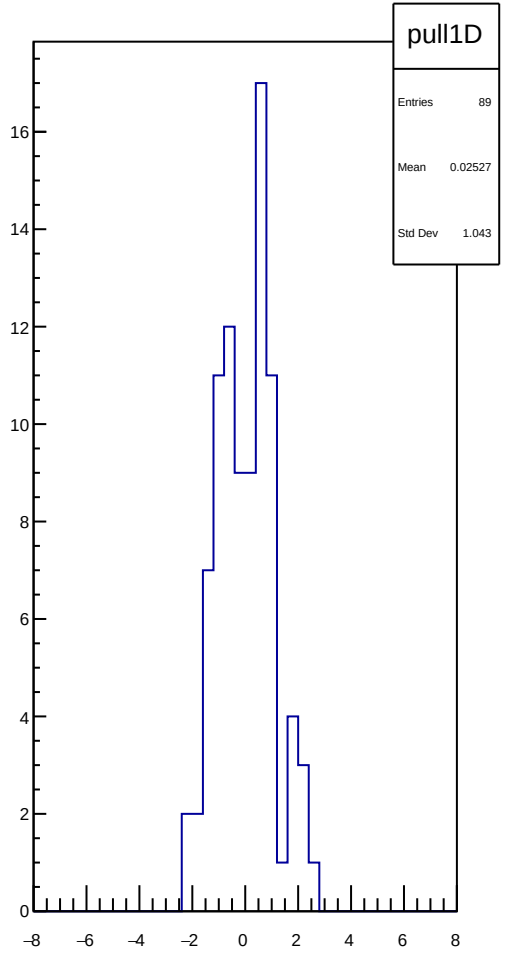

asym_us_avg_atlr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 5004 / 88
p0 4415 ± 3.357
5200
5000
4800
4600
4400
4200
4000
3800

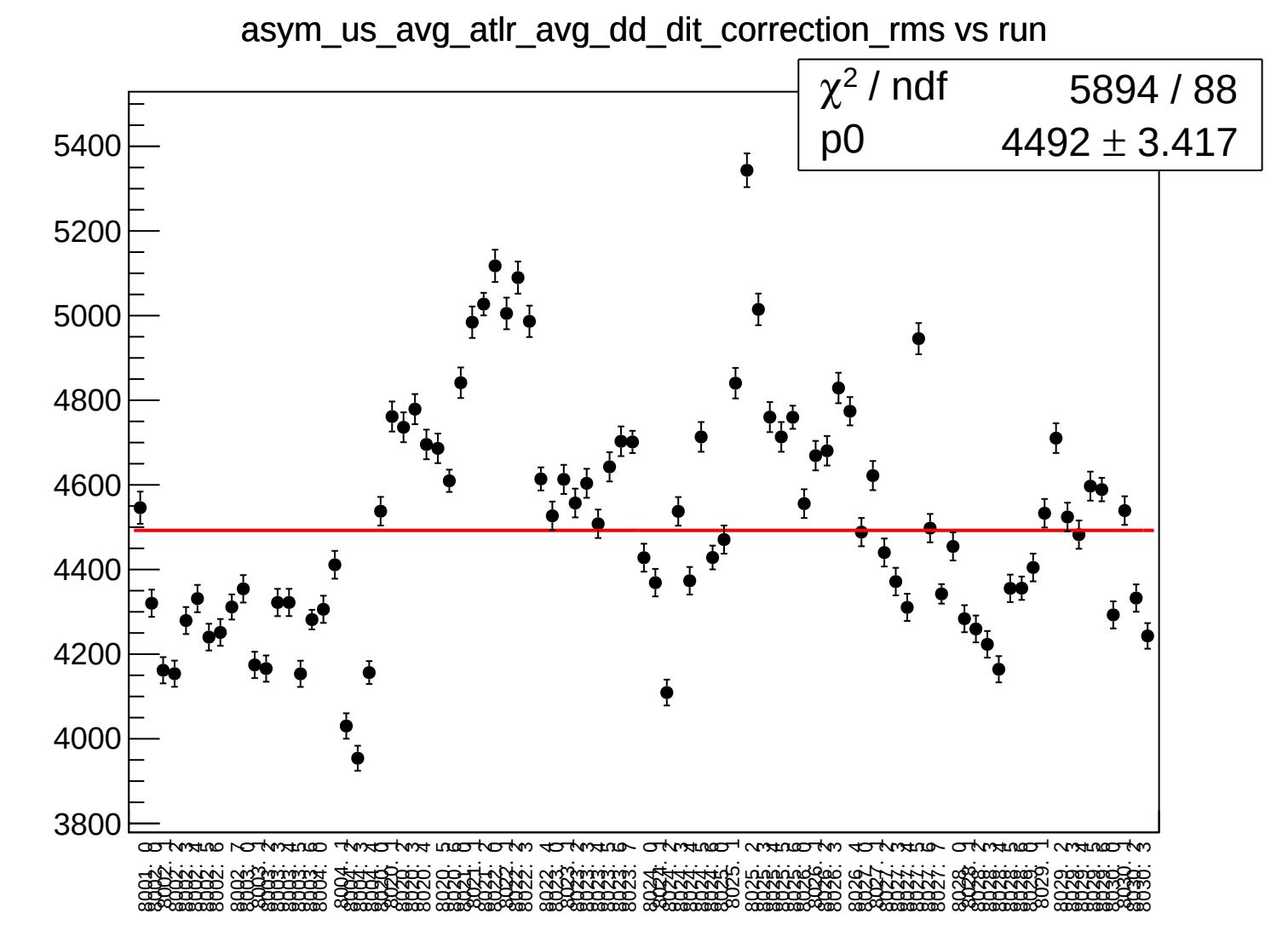

dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 93.79 / 88
p0 −571.9 ± 1236
pull
Entries 89
Mean −87.08
Std Dev 0

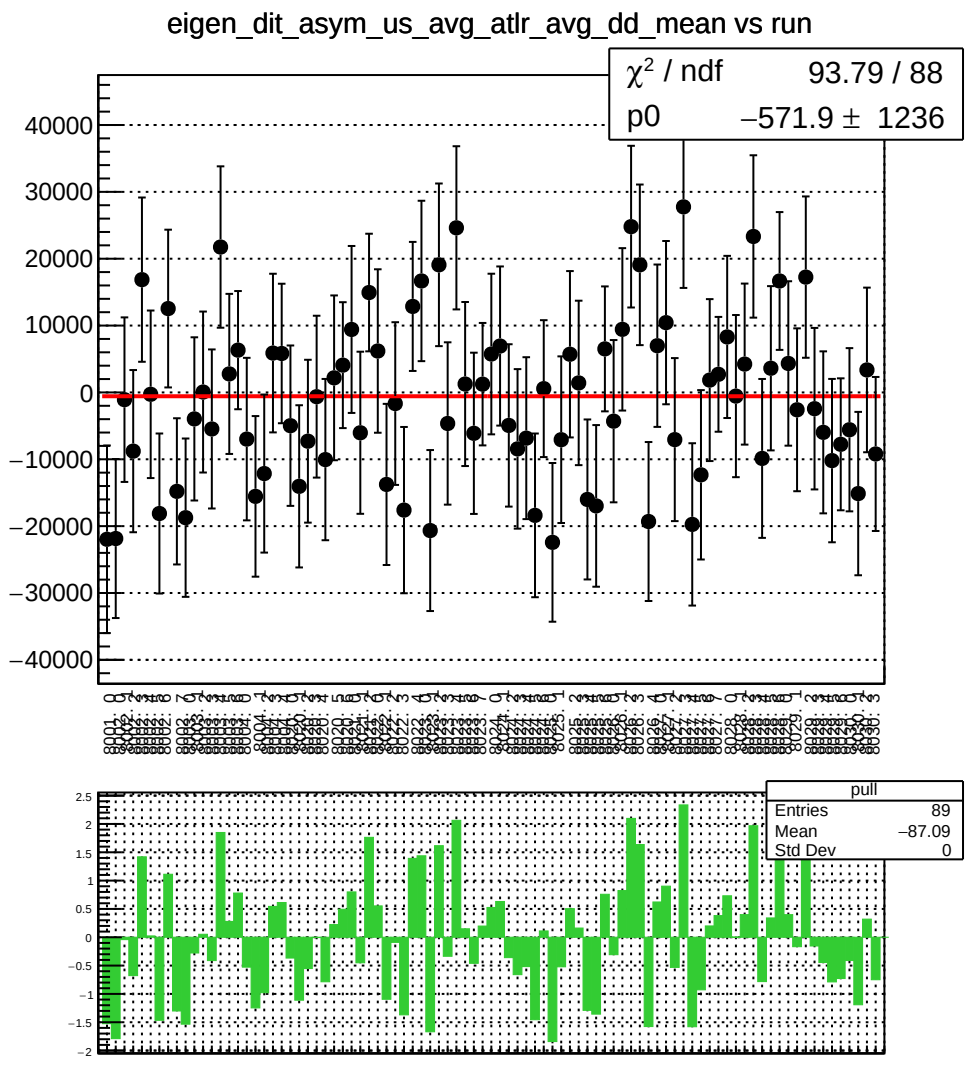

pull1D
Entries 89
Mean −0.02284
Std Dev 1.026

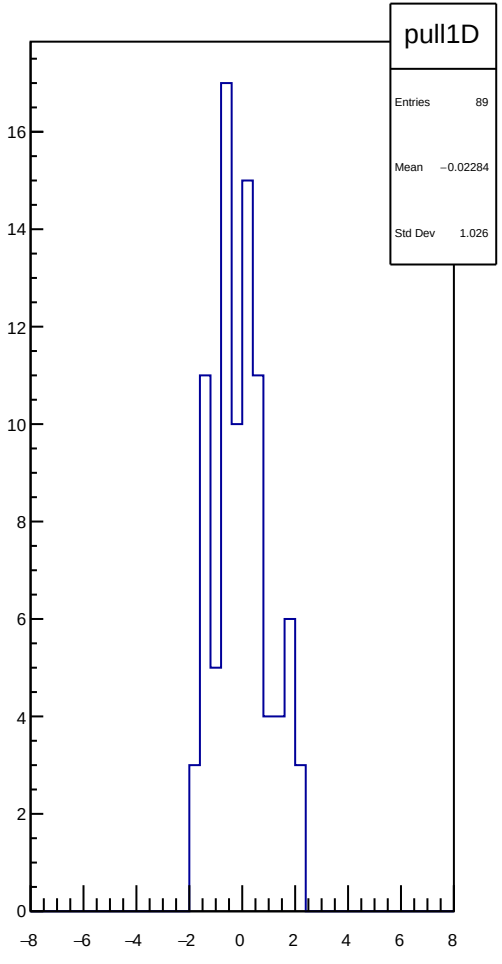

dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 339.5 / 88
p0 1151 ± 0.8742
1220
1200
1180
1160
1140
1120

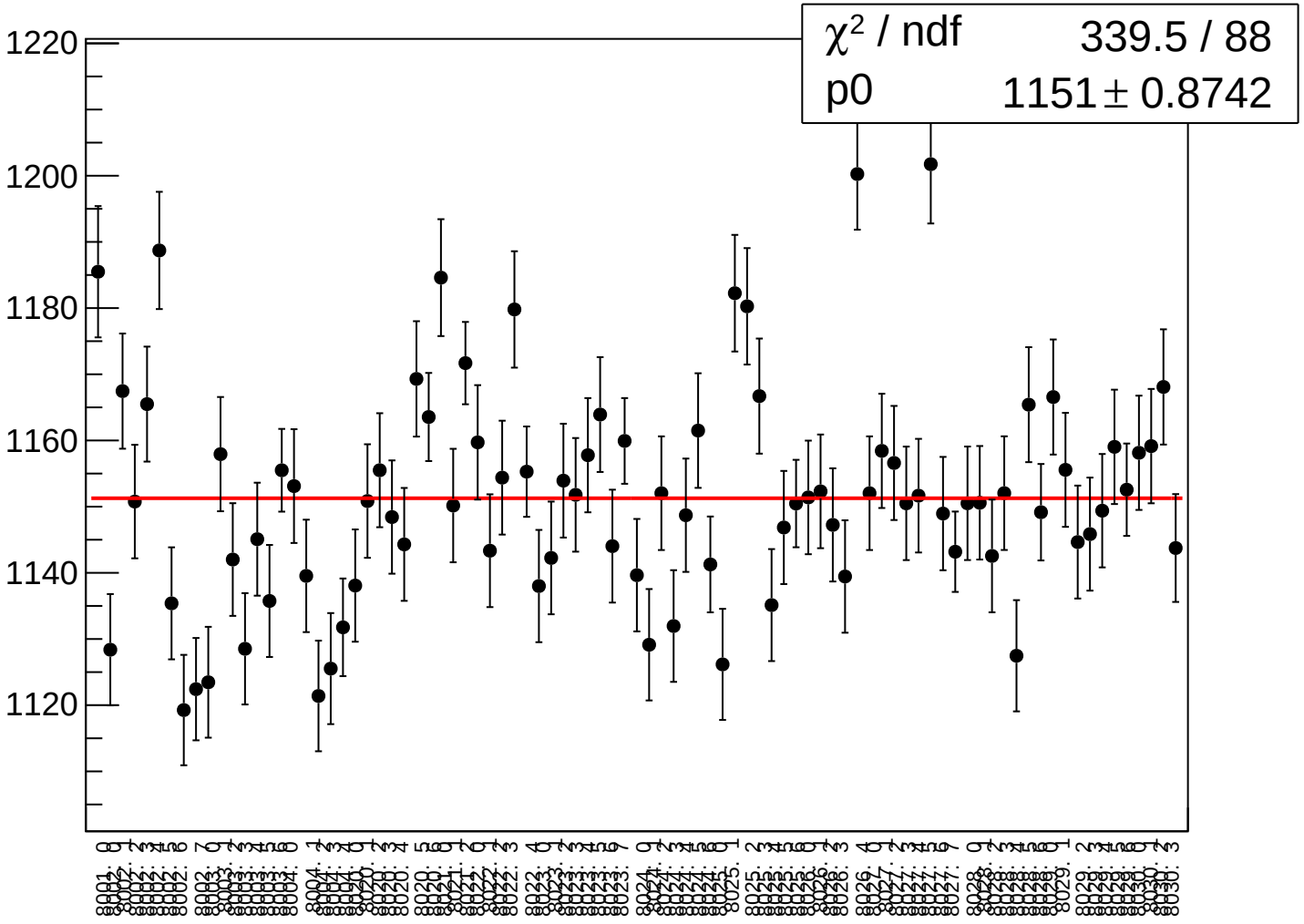

asym_us_avg_atlr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 96.79 / 88
p0 −711.3 ± 4832
pull
Entries 89
Mean 150
Std Dev 0

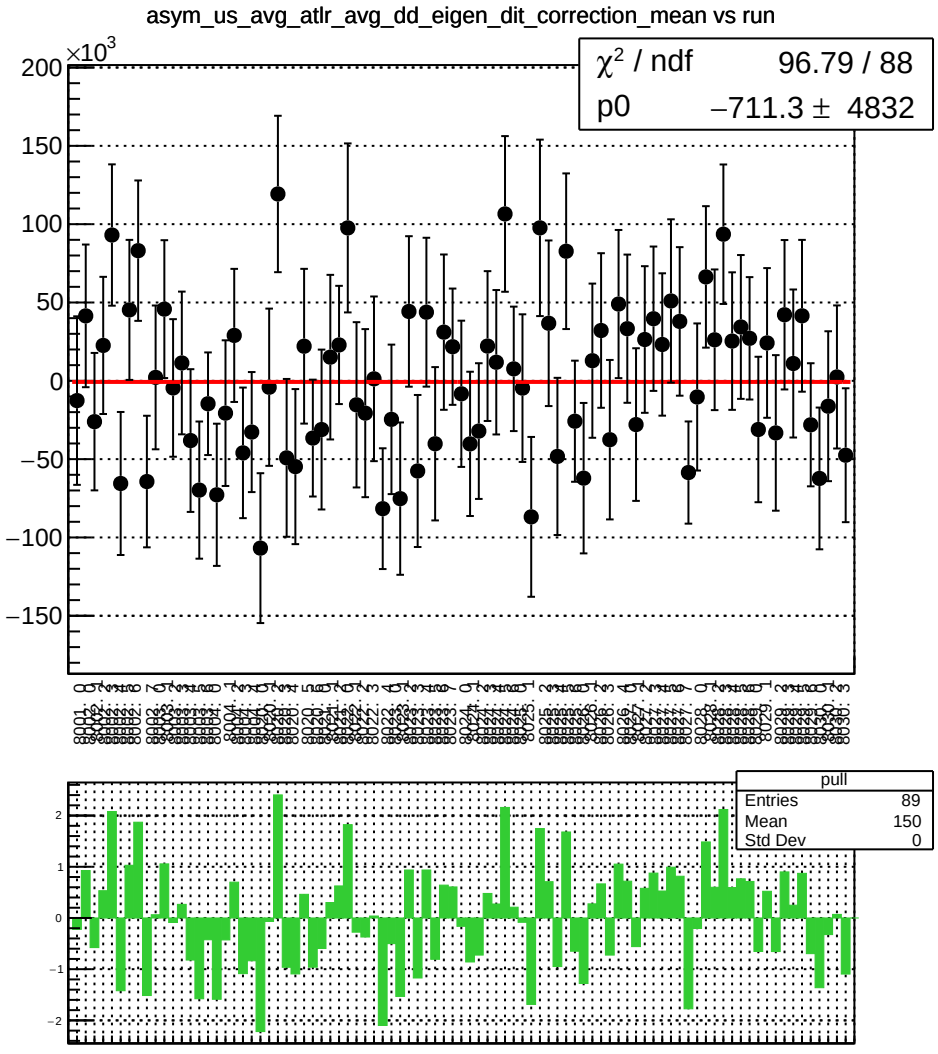

pull1D
Entries 89
Mean 0.02527
Std Dev 1.043

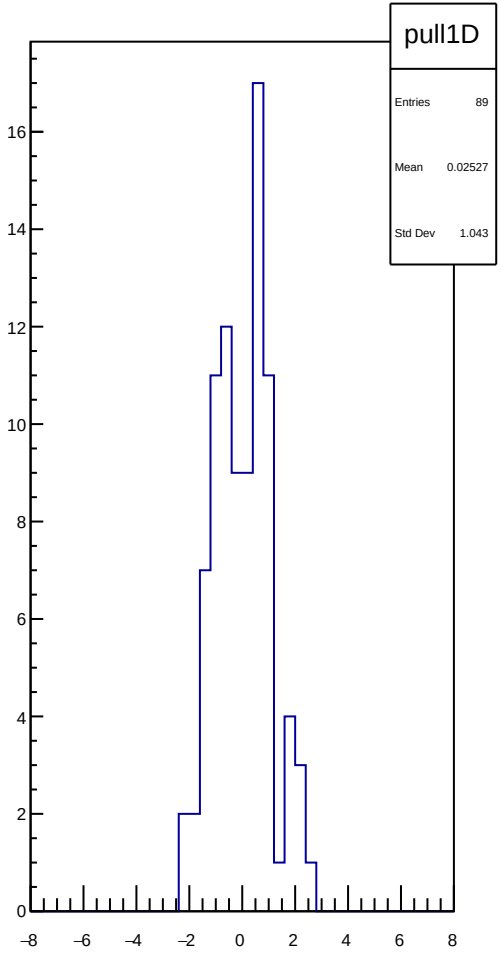

asym_us_avg_atlr_avg_dd_dit_correction_rms vs run
χ² / ndf 5894 / 88
p0 4492 ± 3.417
5400
5200
5000
4800
4600
4400
4200
4000
3800

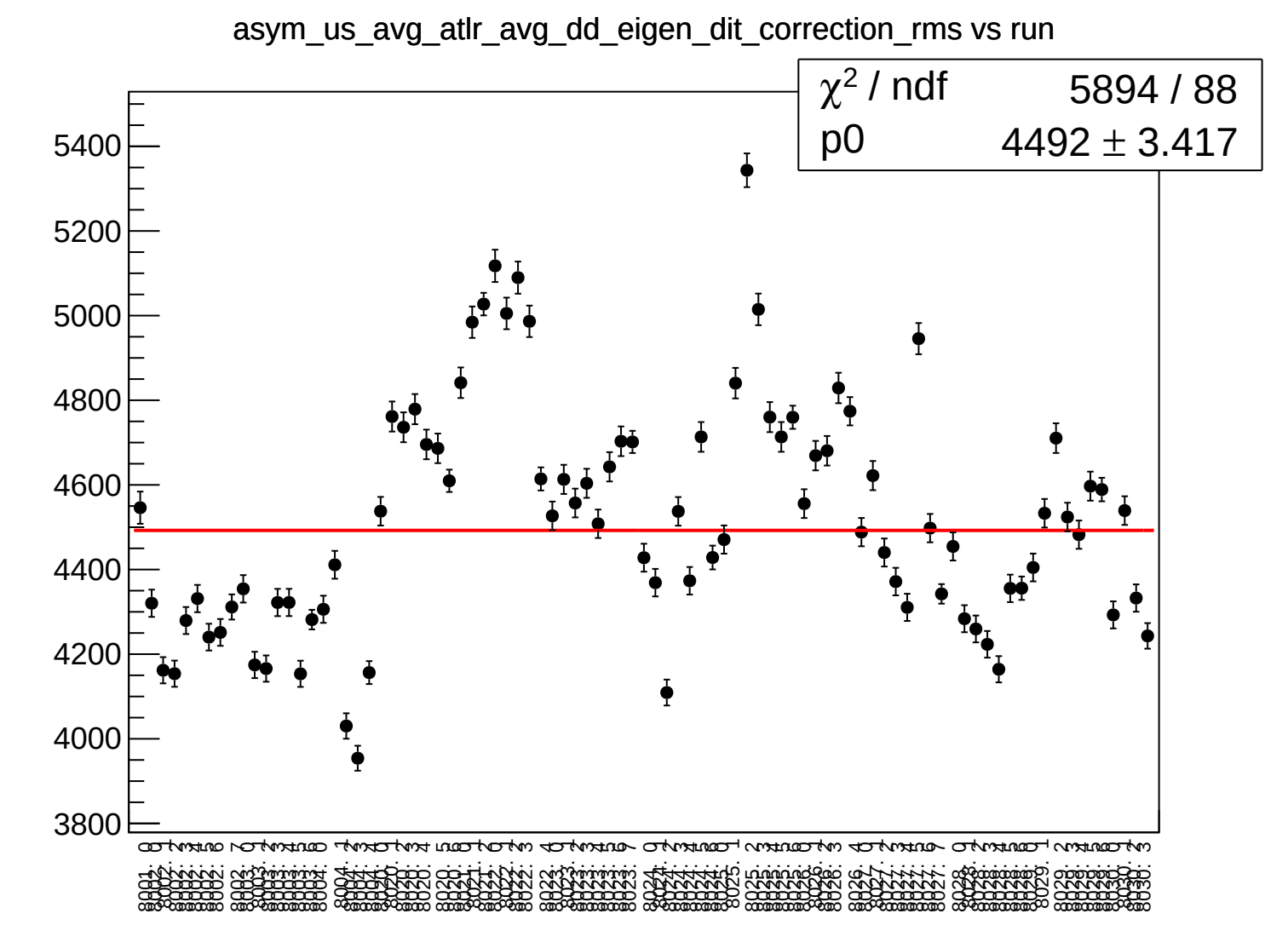

eigen_dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 93.79 / 88
p0 −571.9 ± 1236
pull
Entries 89
Mean −87.09
Std Dev 0

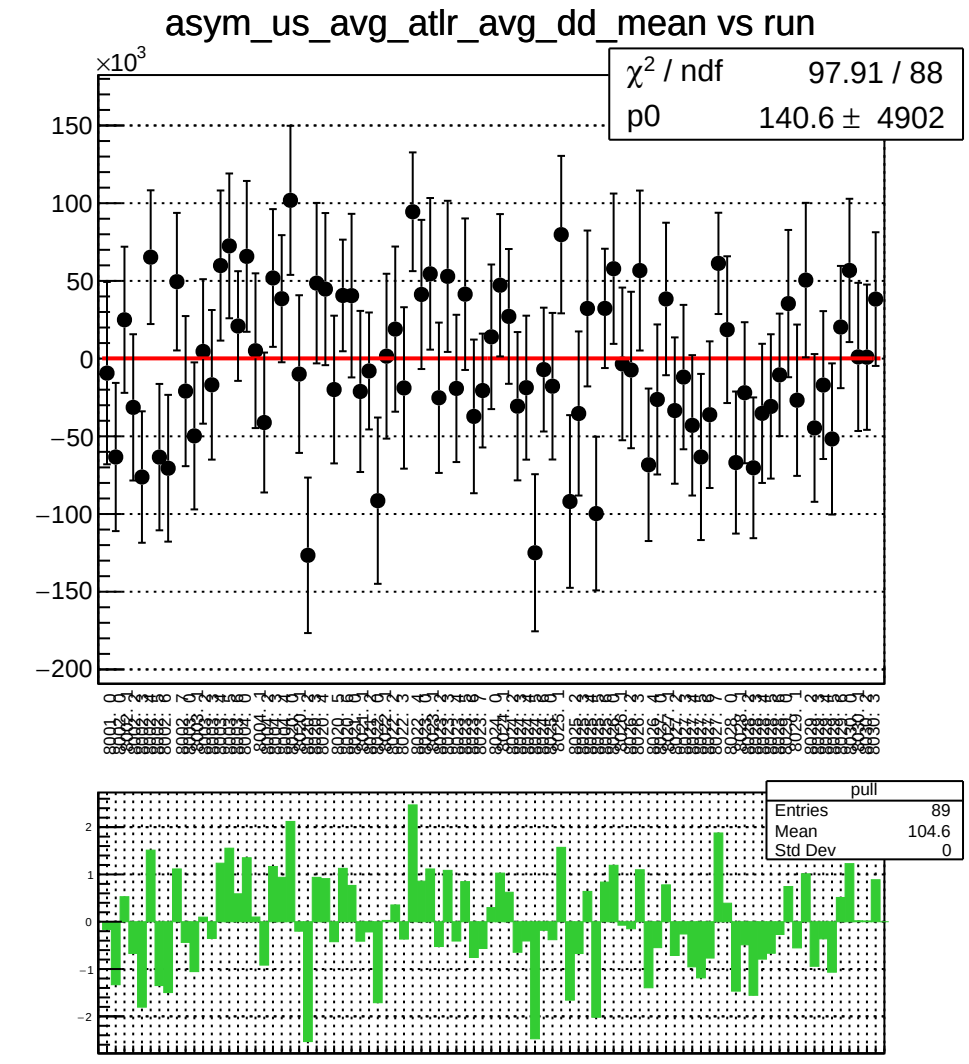

pull1D
Entries 89
Mean −0.02284
Std Dev 1.026

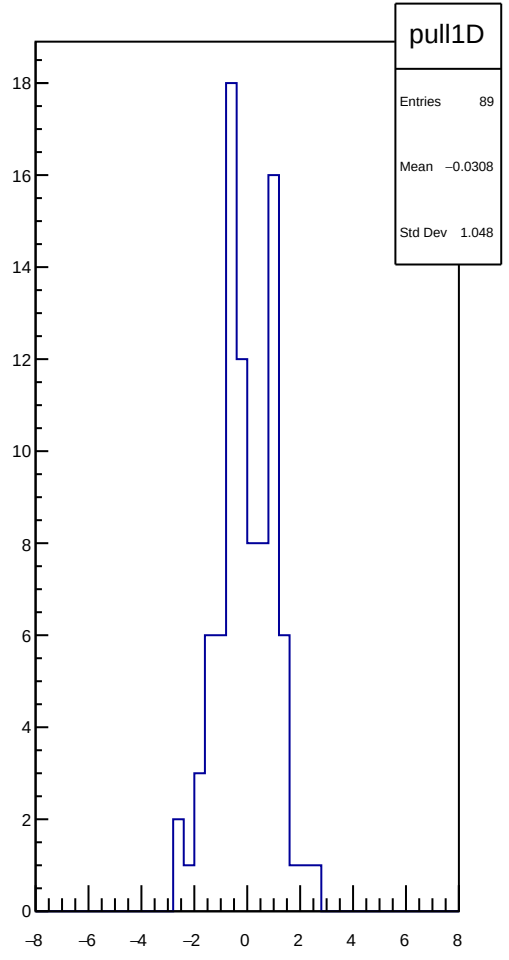

eigen_dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 339.5 / 88
p0 1151 ± 0.8742
1220
1200
1180
1160
1140
1120

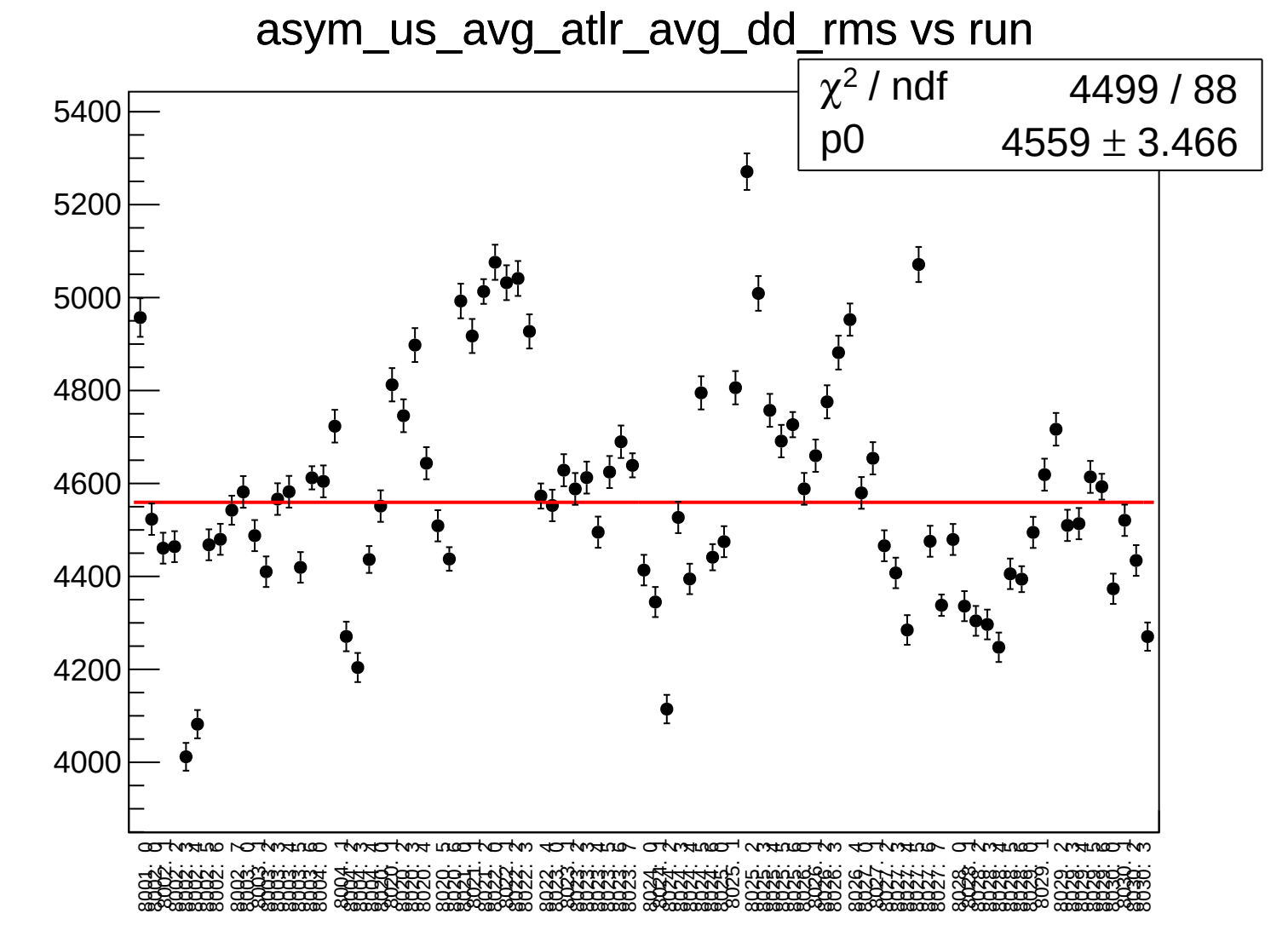

asym_us_avg_atlr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 96.79 / 88
p0 −711.3 ± 4832
pull
Entries 89
Mean 150
Std Dev 0

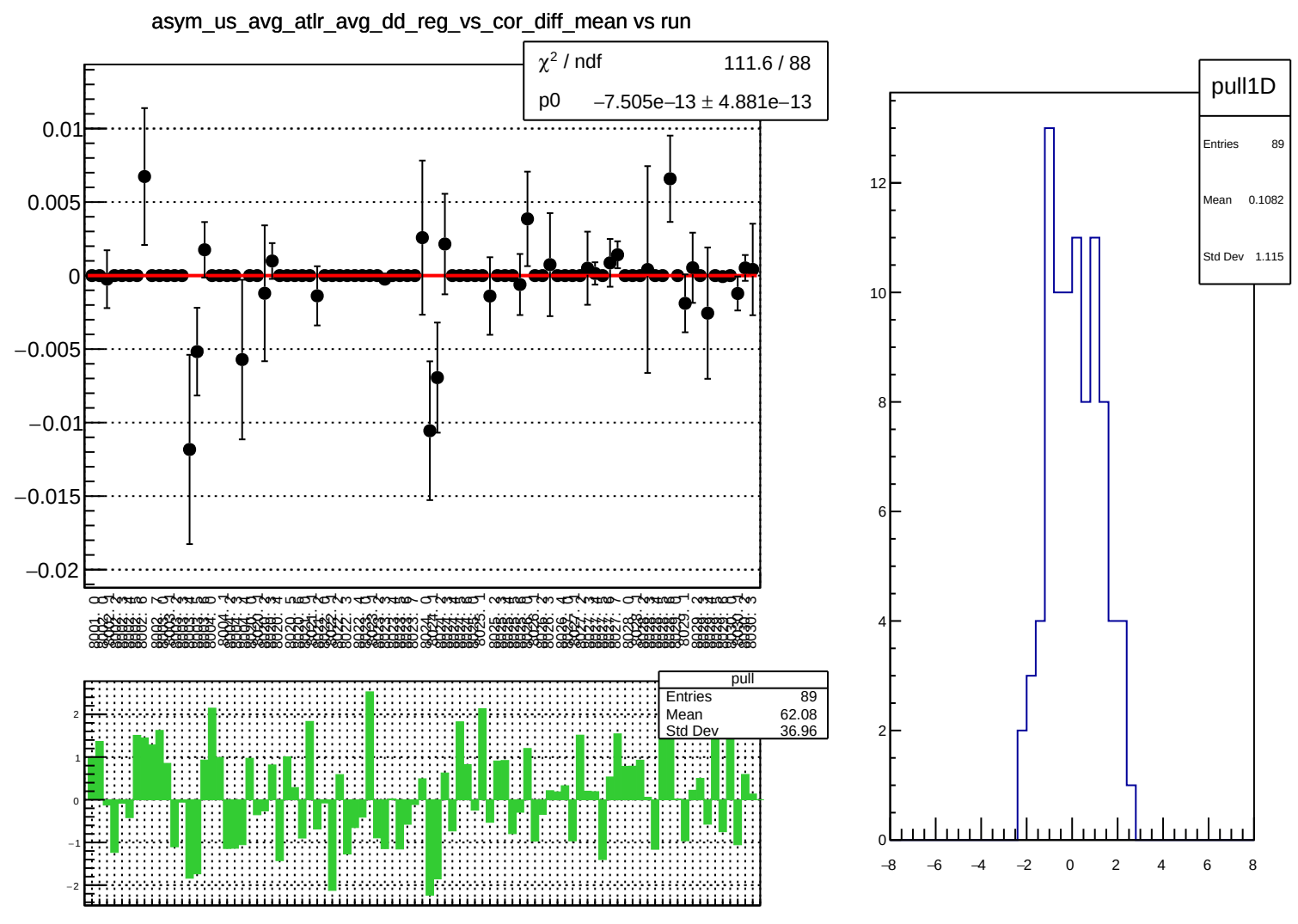

pull1D
Entries 89
Mean 0.02527
Std Dev 1.043

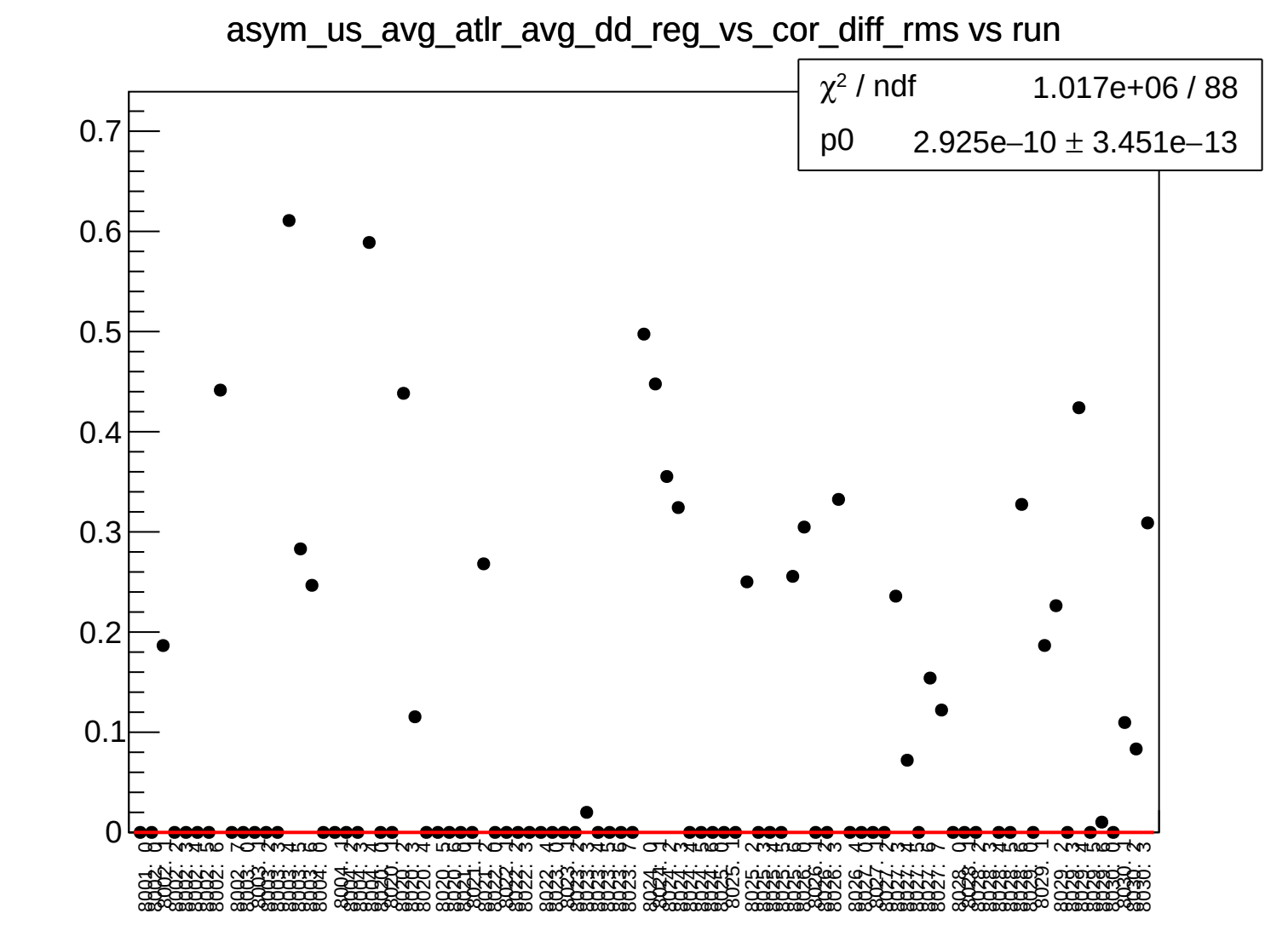

asym_us_avg_atlr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 5894 / 88
p0 4492 ± 3.417
5400
5200
5000
4800
4600
4400
4200
4000
3800

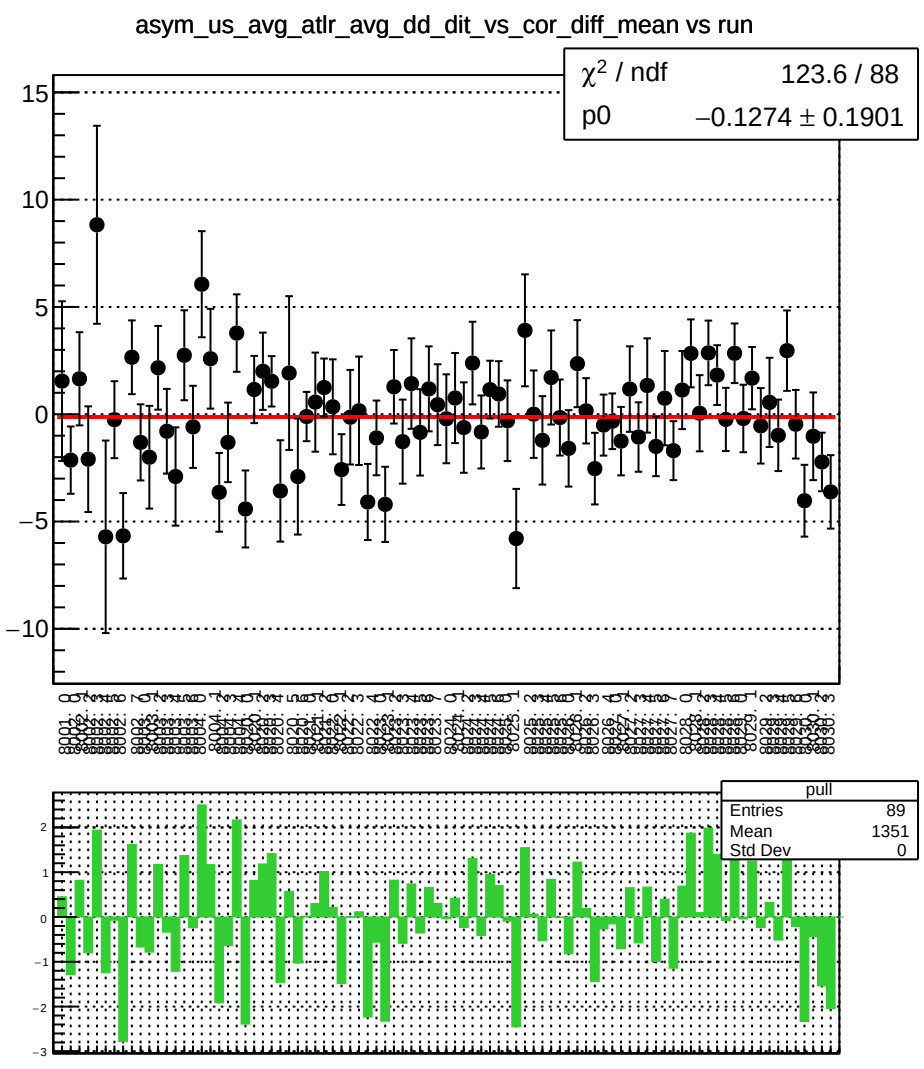

asym_us_avg_atlr_avg_dd_mean vs run
×10^3
χ^2 / ndf 97.91 / 88
p0 140.6 ± 4902
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean 104.6
Std Dev 0
2
1
0
−1
−2

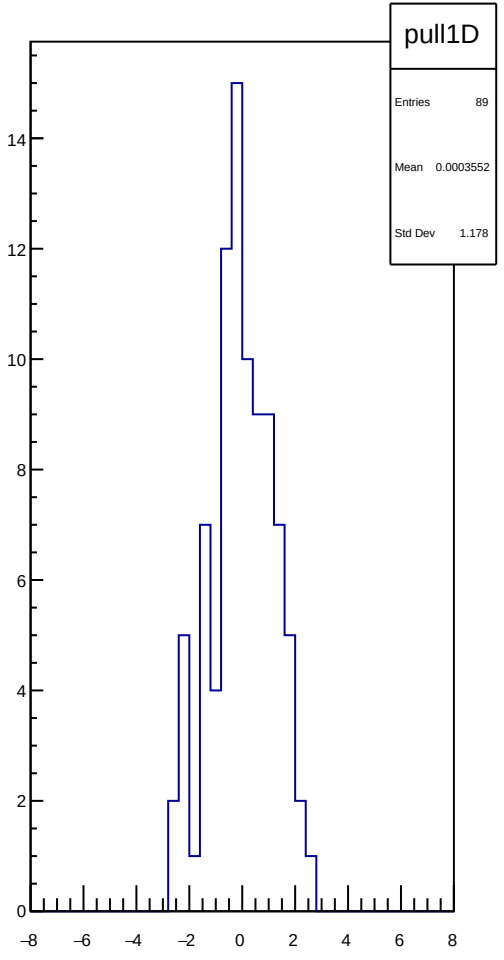

pull1D
Entries 89
Mean −0.0308
Std Dev 1.048
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

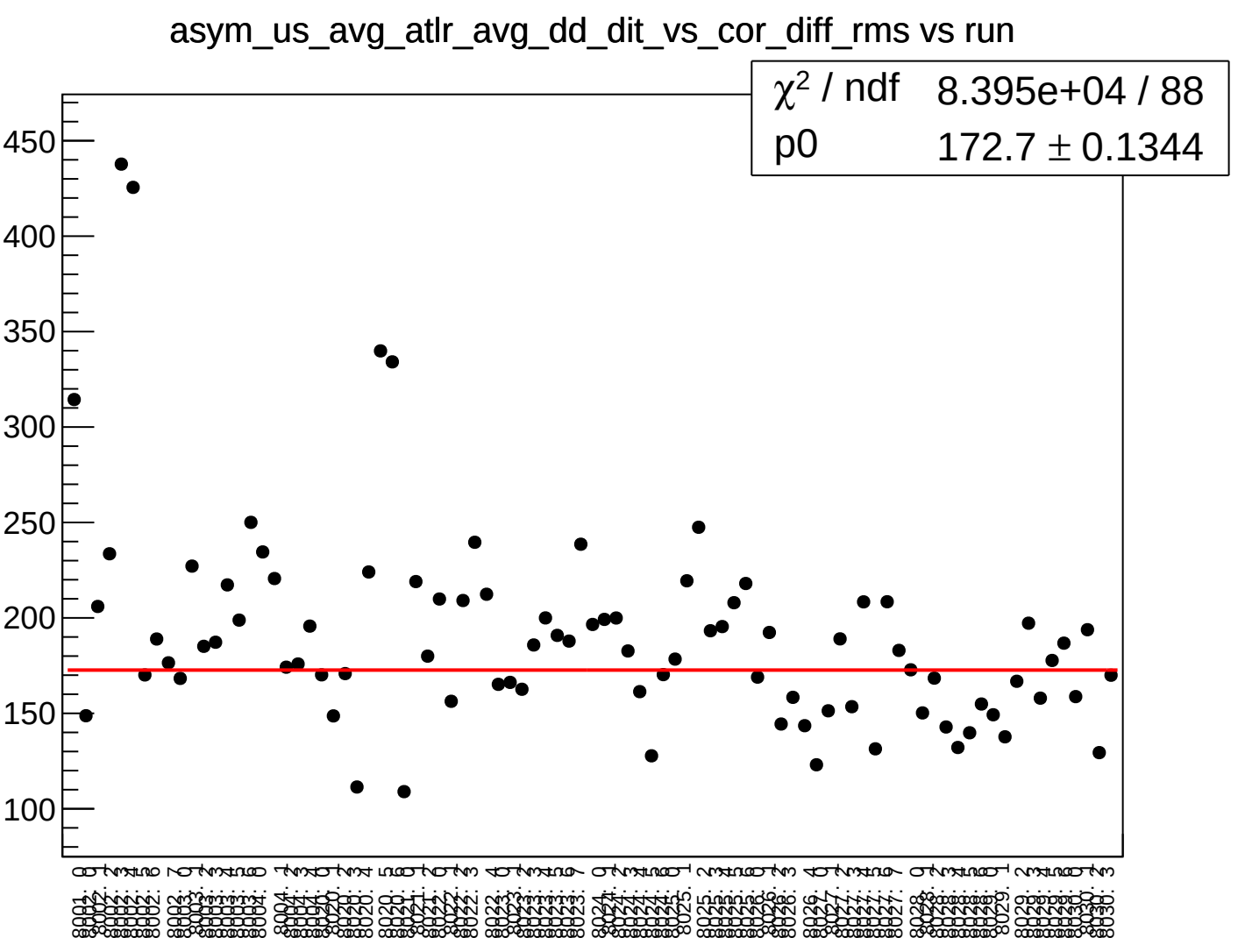

asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 4499 / 88
p0 4559 ± 3.466
5400
5200
5000
4800
4600
4400
4200
4000

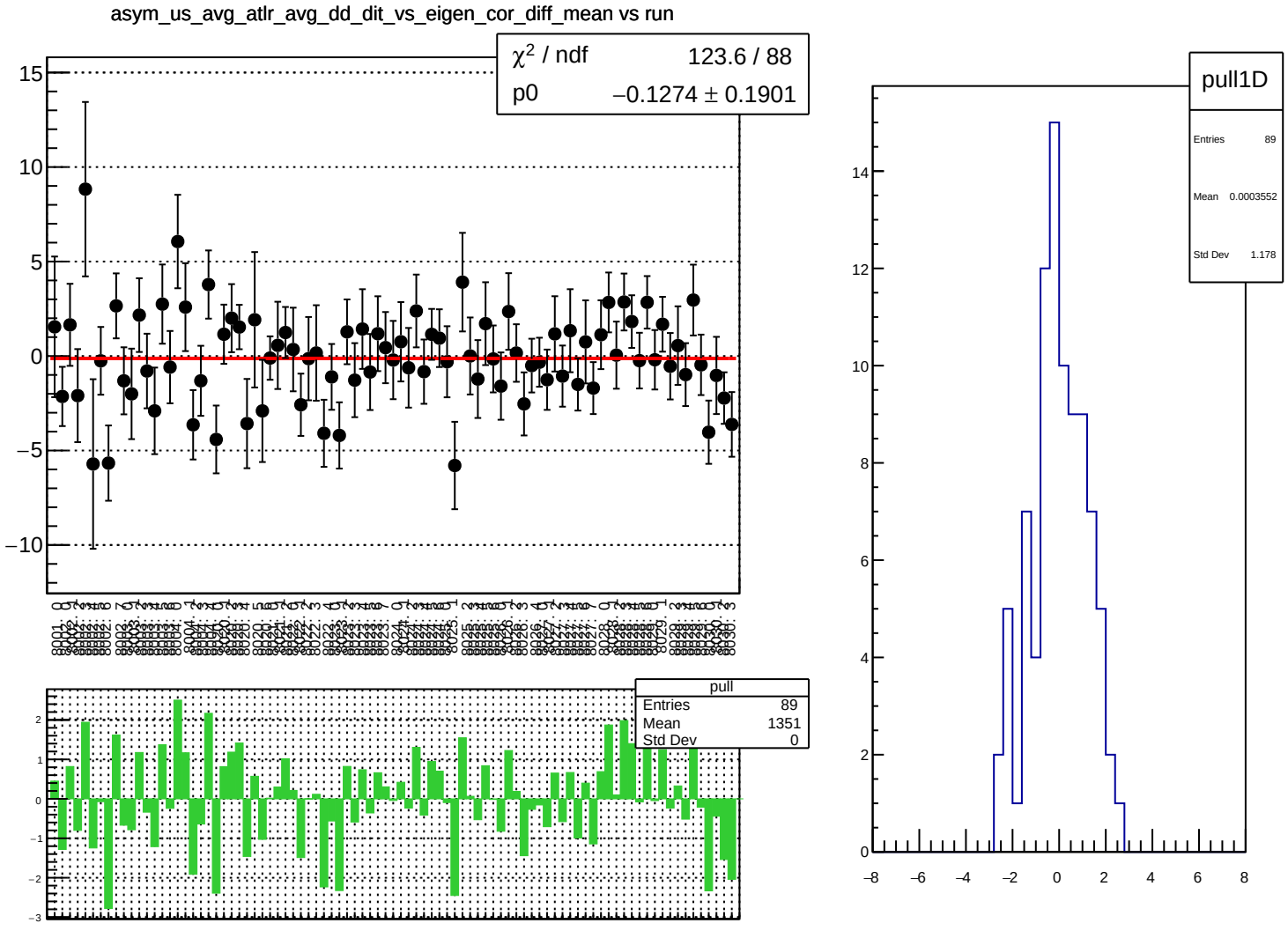

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 111.6 / 88
p0 −7.505e−13 ± 4.881e−13
pull
Entries 89
Mean 62.08
Std Dev 36.96
pull1D
Entries 89
Mean 0.1082
Std Dev 1.115

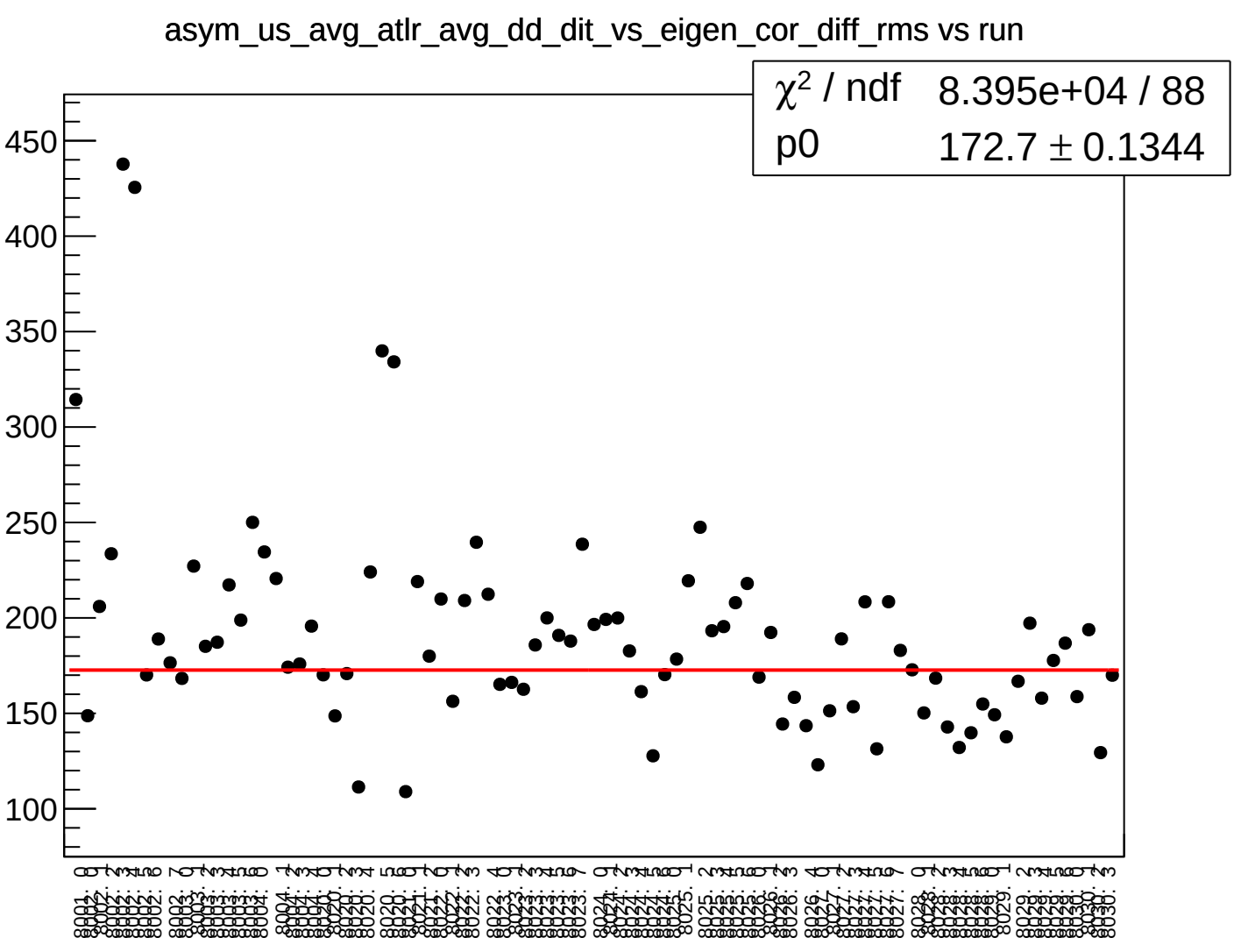

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.017e+06 / 88
p0 2.925e−10 ± 3.451e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

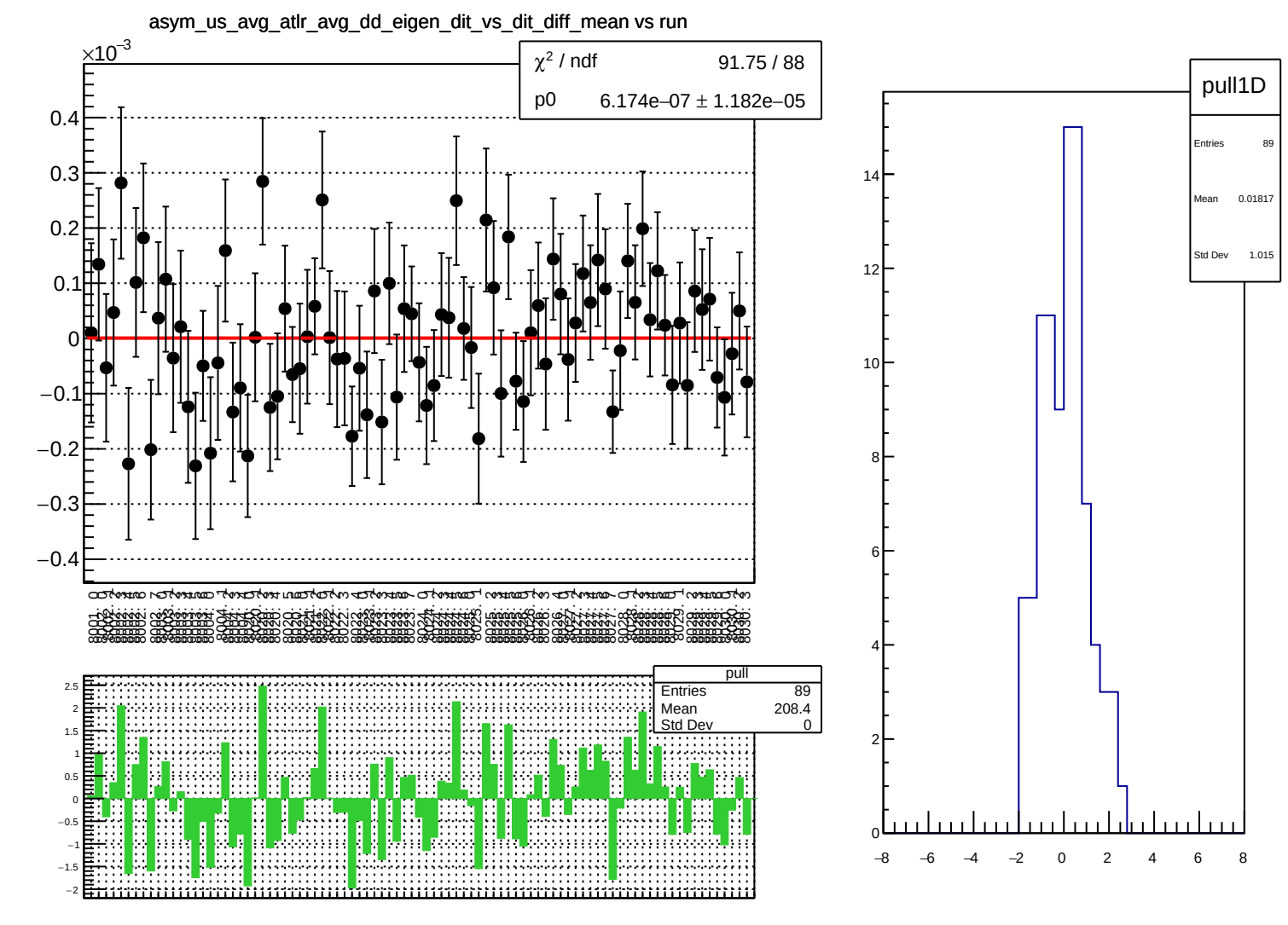

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 123.6 / 88
p0 −0.1274 ± 0.1901
pull
Entries 89
Mean 1351
Std Dev 0

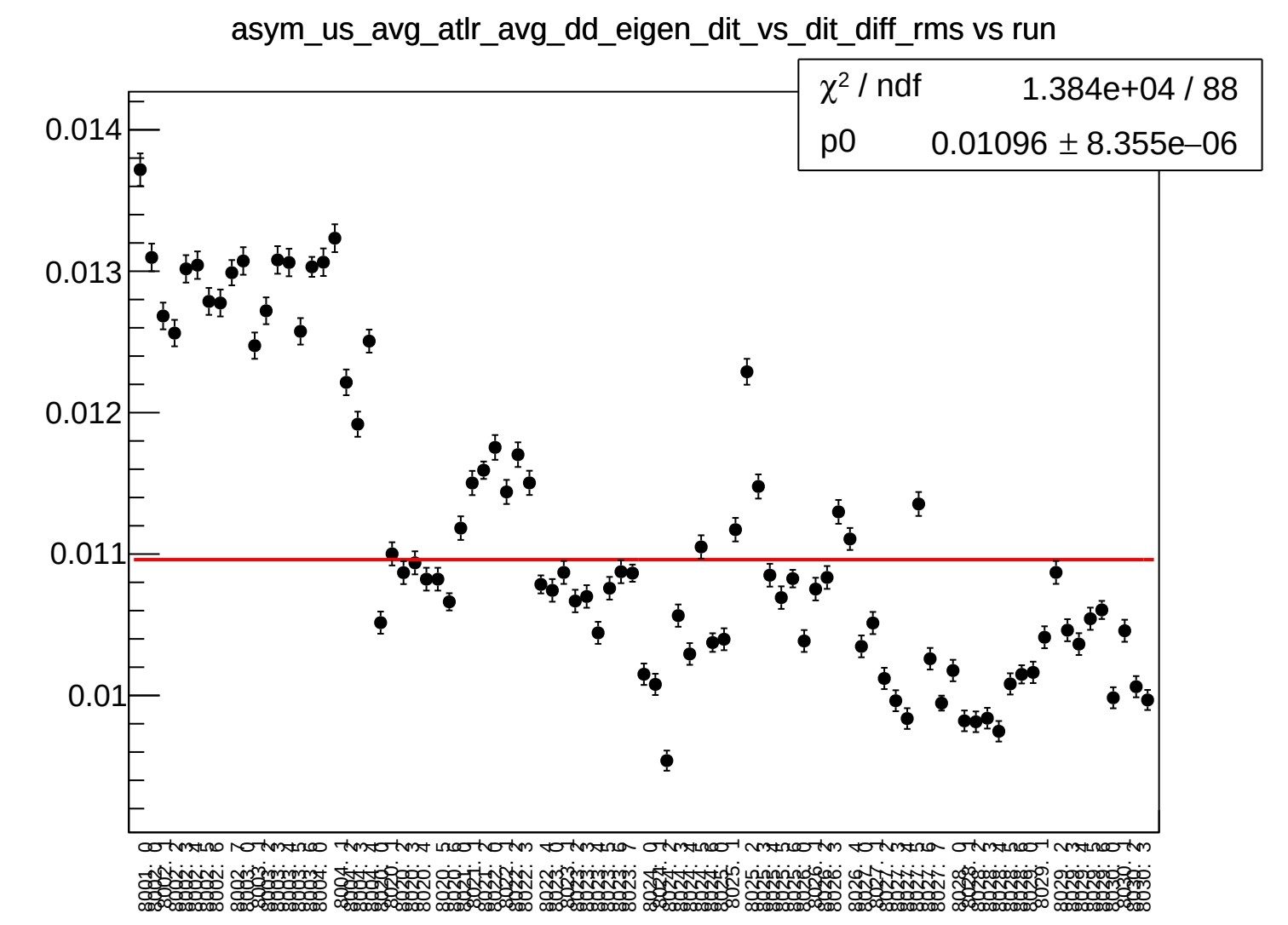

pull1D
Entries 89
Mean 0.0003552
Std Dev 1.178

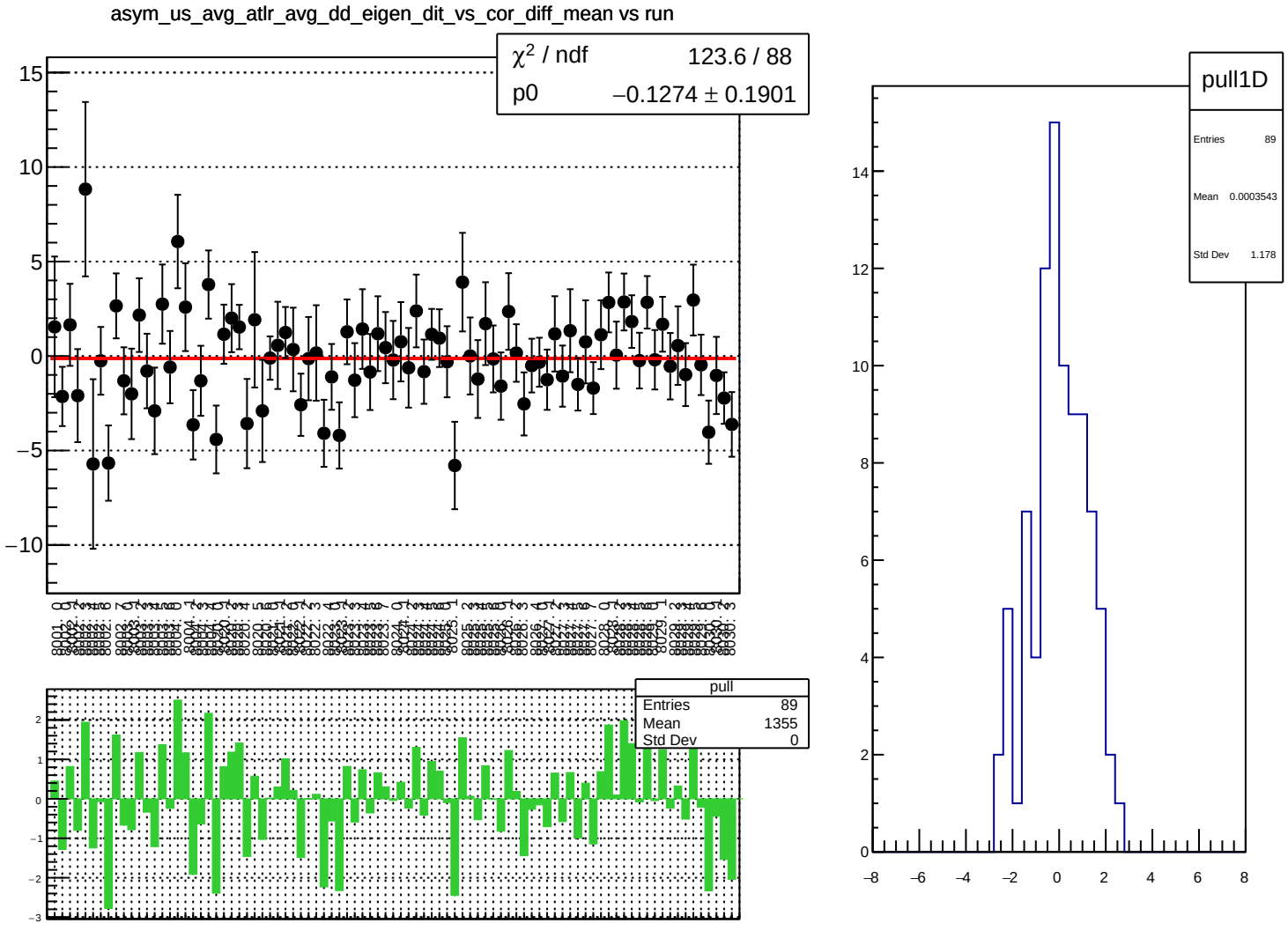

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8.395e+04 / 88
p0 172.7 ± 0.1344
450
400
350
300
250
200
150
100

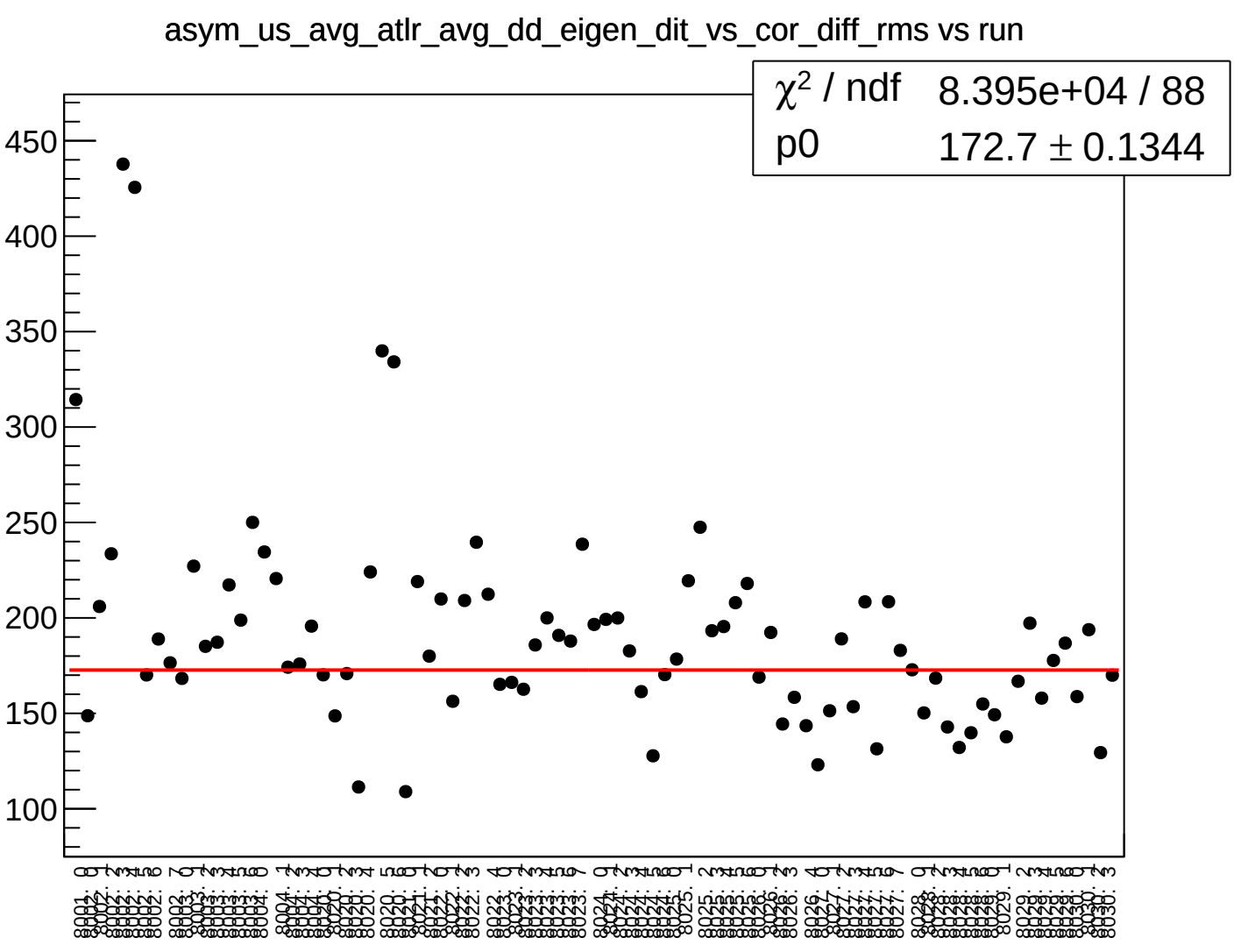

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 123.6 / 88
p0 −0.1274 ± 0.1901
pull
Entries 89
Mean 1351
Std Dev 0
pull1D
Entries 89
Mean 0.0003552
Std Dev 1.178

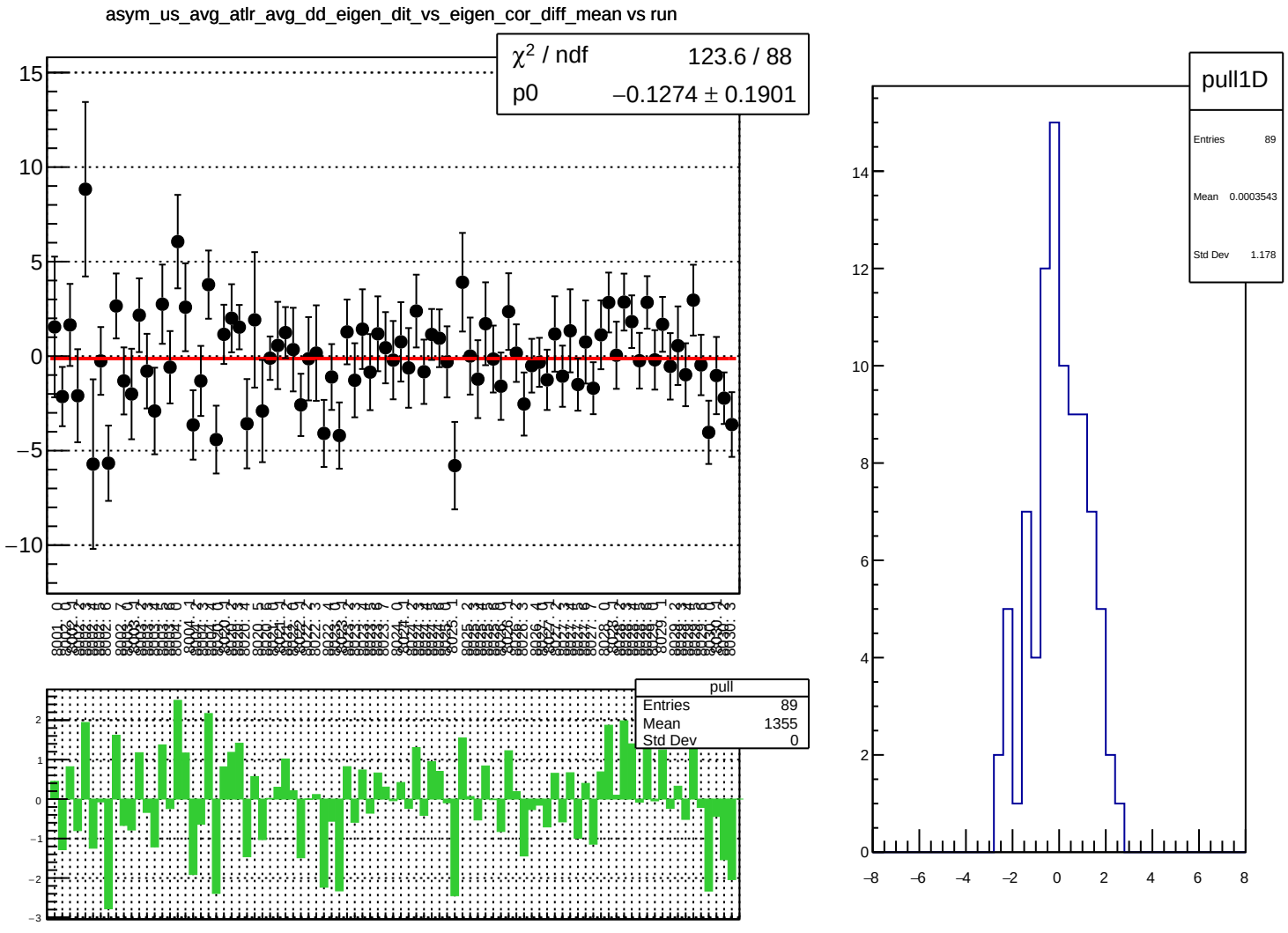

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.395e+04 / 88
p0 172.7 ± 0.1344
450
400
350
300
250
200
150
100

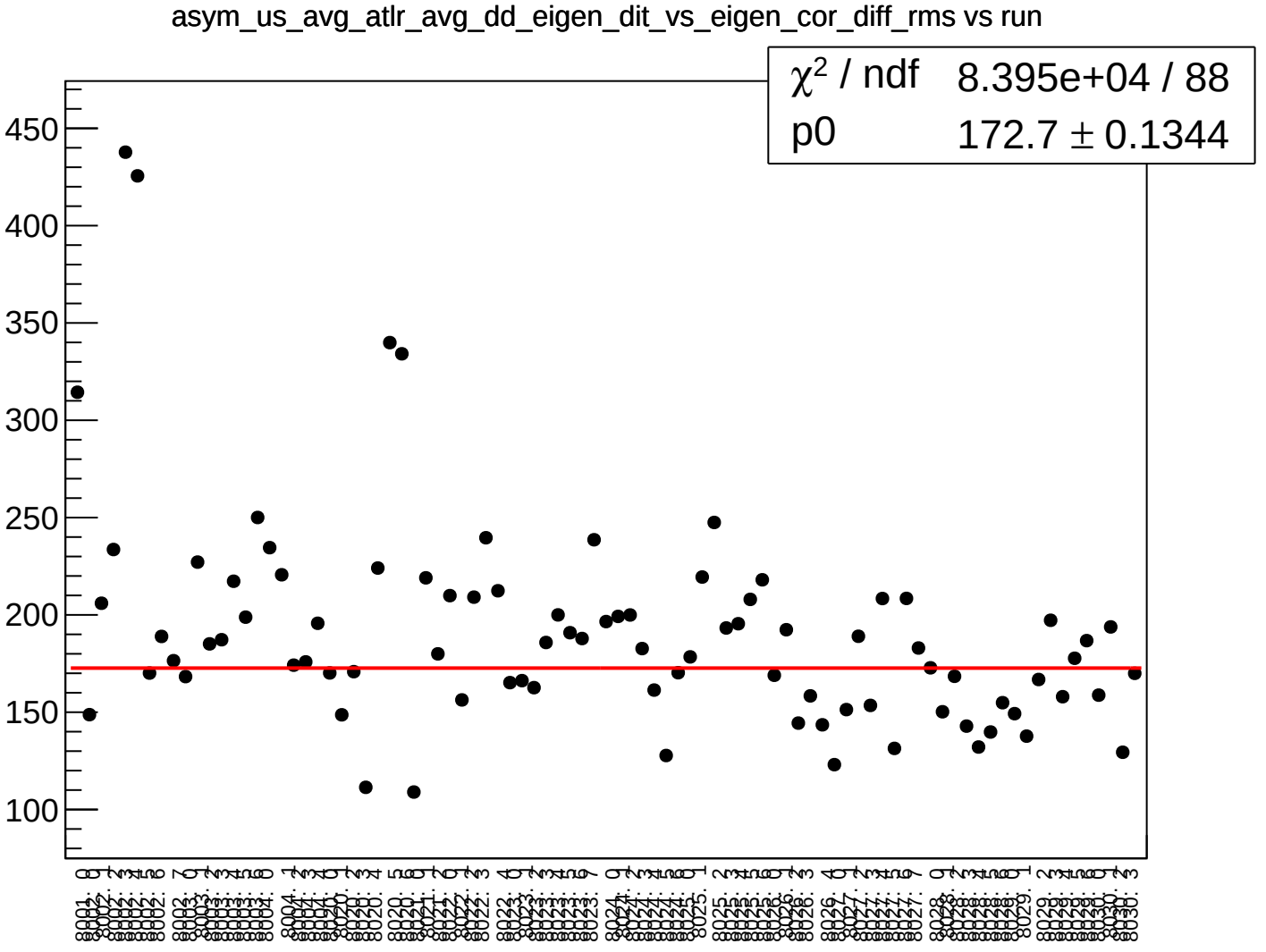

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 91.75 / 88
p0 6.174e−07 ± 1.182e−05
pull
Entries 89
Mean 208.4
Std Dev 0
pull1D
Entries 89
Mean 0.01817
Std Dev 1.015

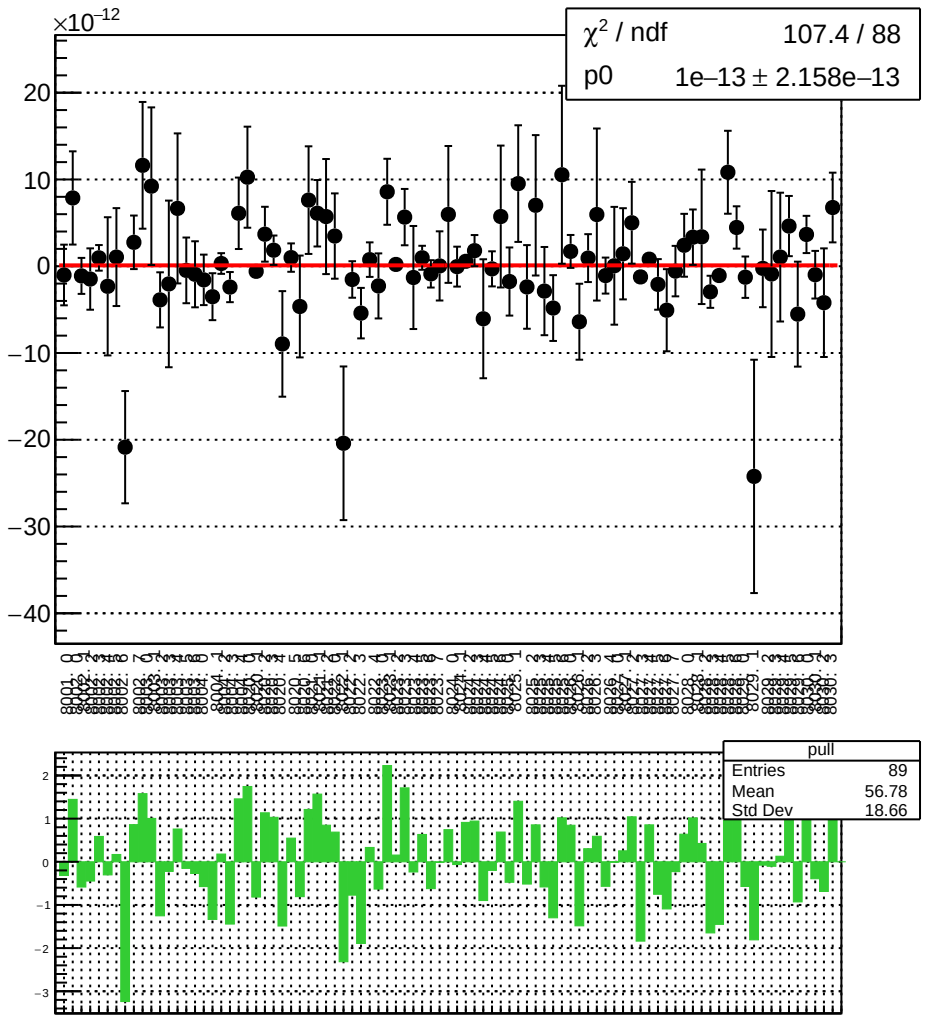

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.384e+04 / 88
p0 0.01096 ± 8.355e–06
0.014
0.013
0.012
0.011
0.01

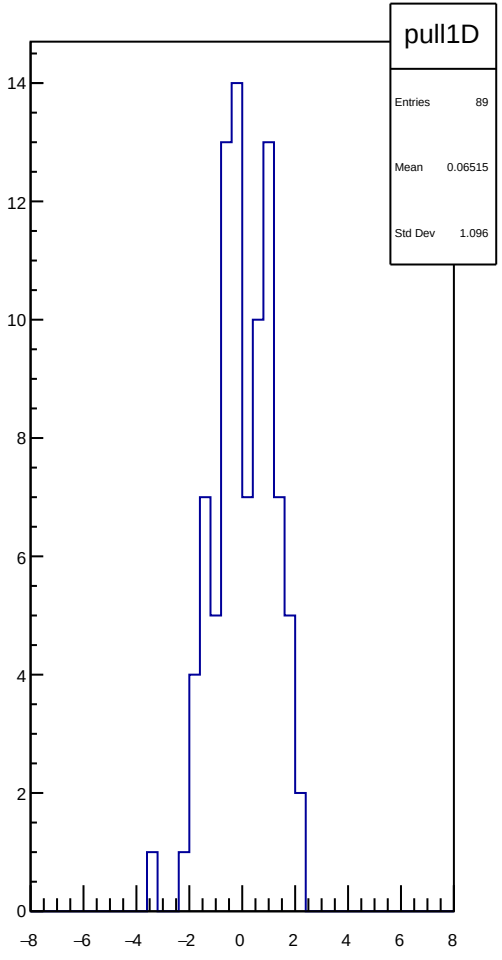

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 123.6 / 88
p0 −0.1274 ± 0.1901
pull
Entries 89
Mean 1355
Std Dev 0
pull1D
Entries 89
Mean 0.0003543
Std Dev 1.178

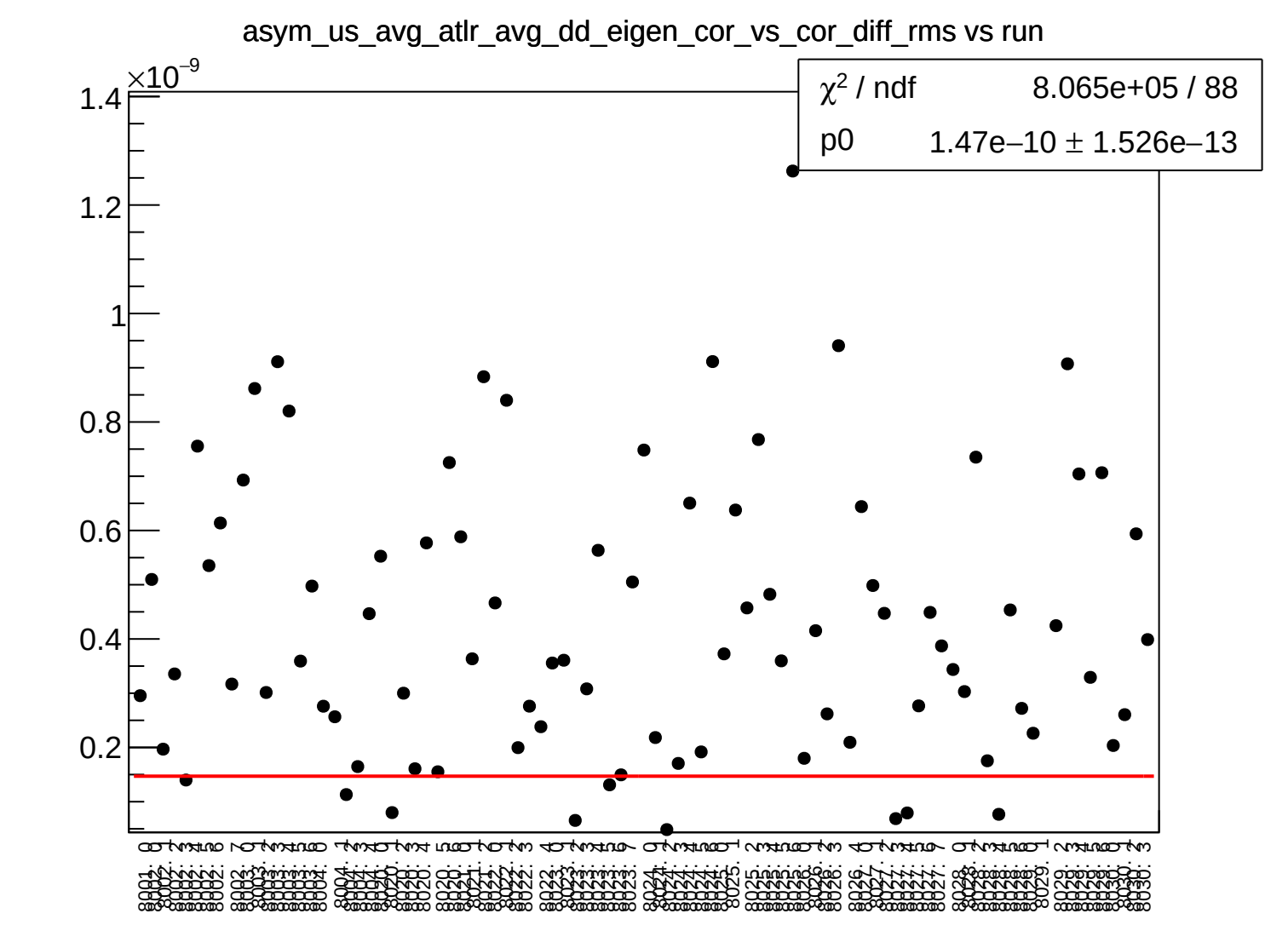

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.395e+04 / 88
p0 172.7 ± 0.1344
450
400
350
300
250
200
150
100

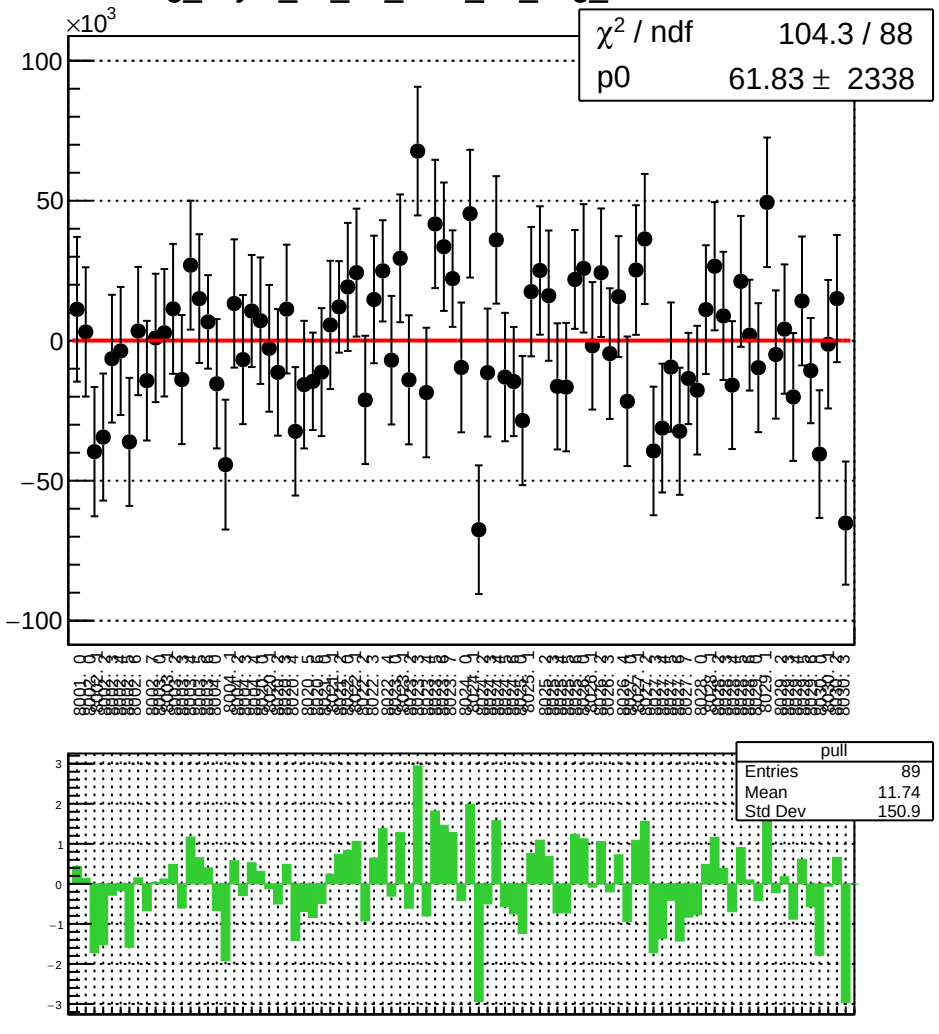

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 123.6 / 88
p0 −0.1274 ± 0.1901
pull
Entries 89
Mean 1355
Std Dev 0
pull1D
Entries 89
Mean 0.0003543
Std Dev 1.178

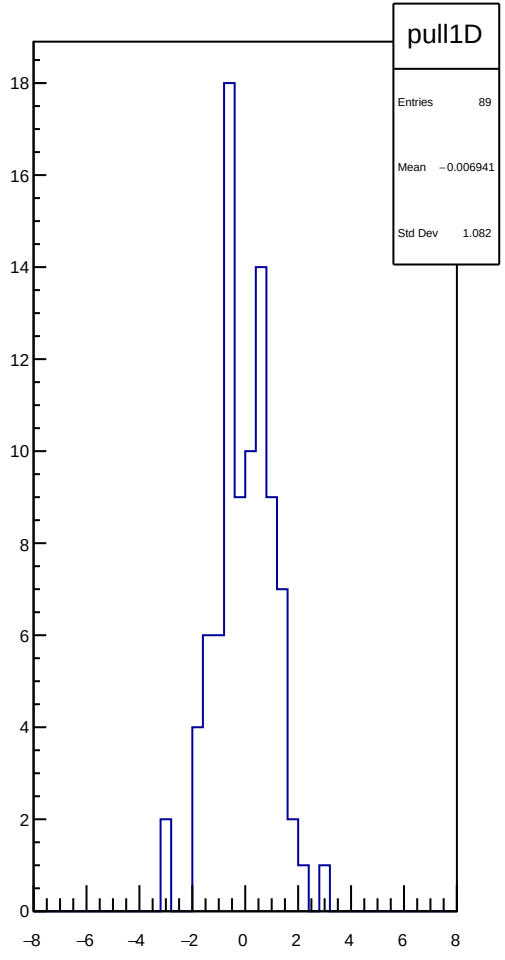

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.395e+04 / 88
p0 172.7 ± 0.1344
450
400
350
300
250
200
150
100

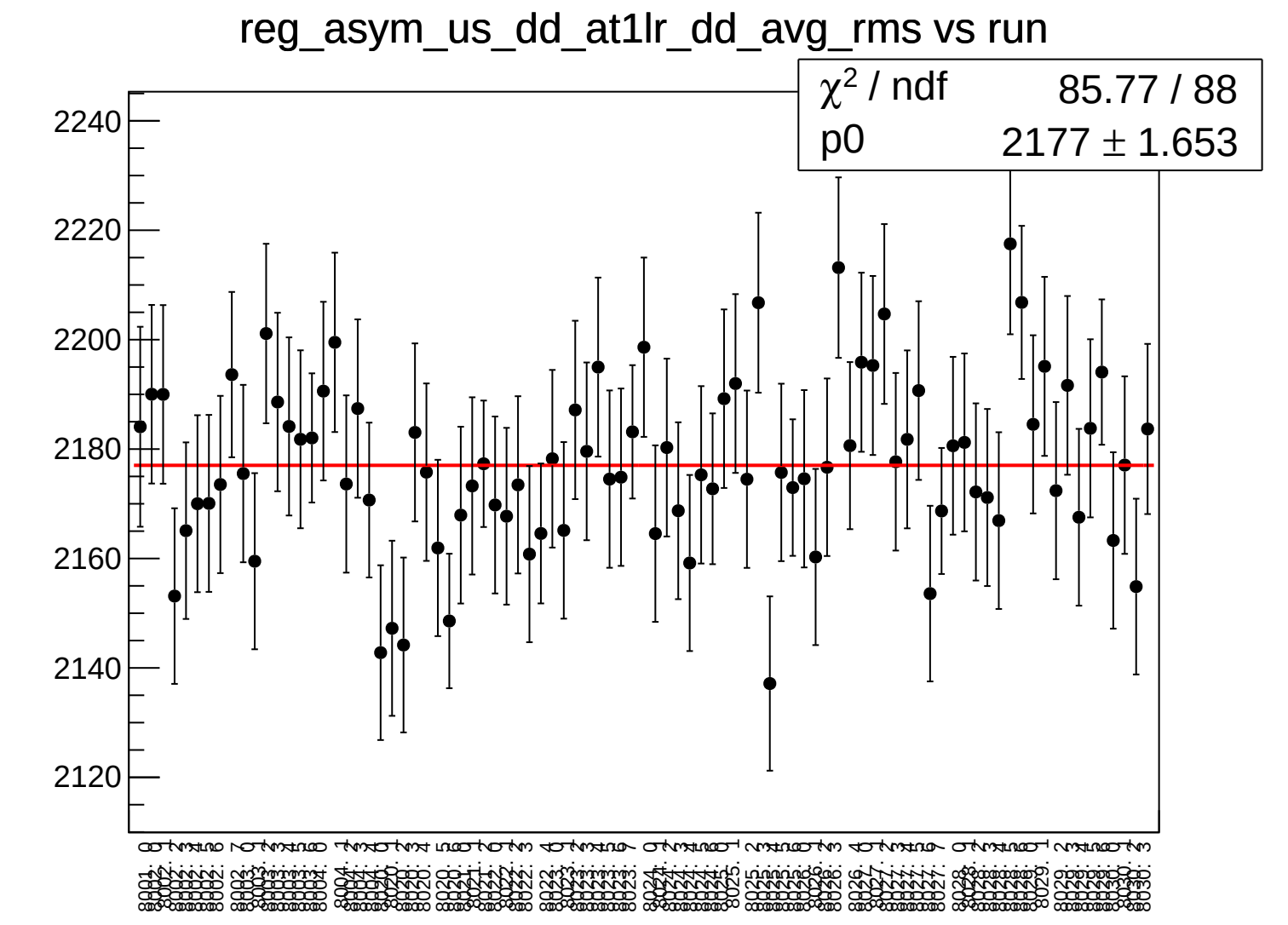

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 107.4 / 88
p0 1e−13 ± 2.158e−13
pull
Entries 89
Mean 56.78
Std Dev 18.66

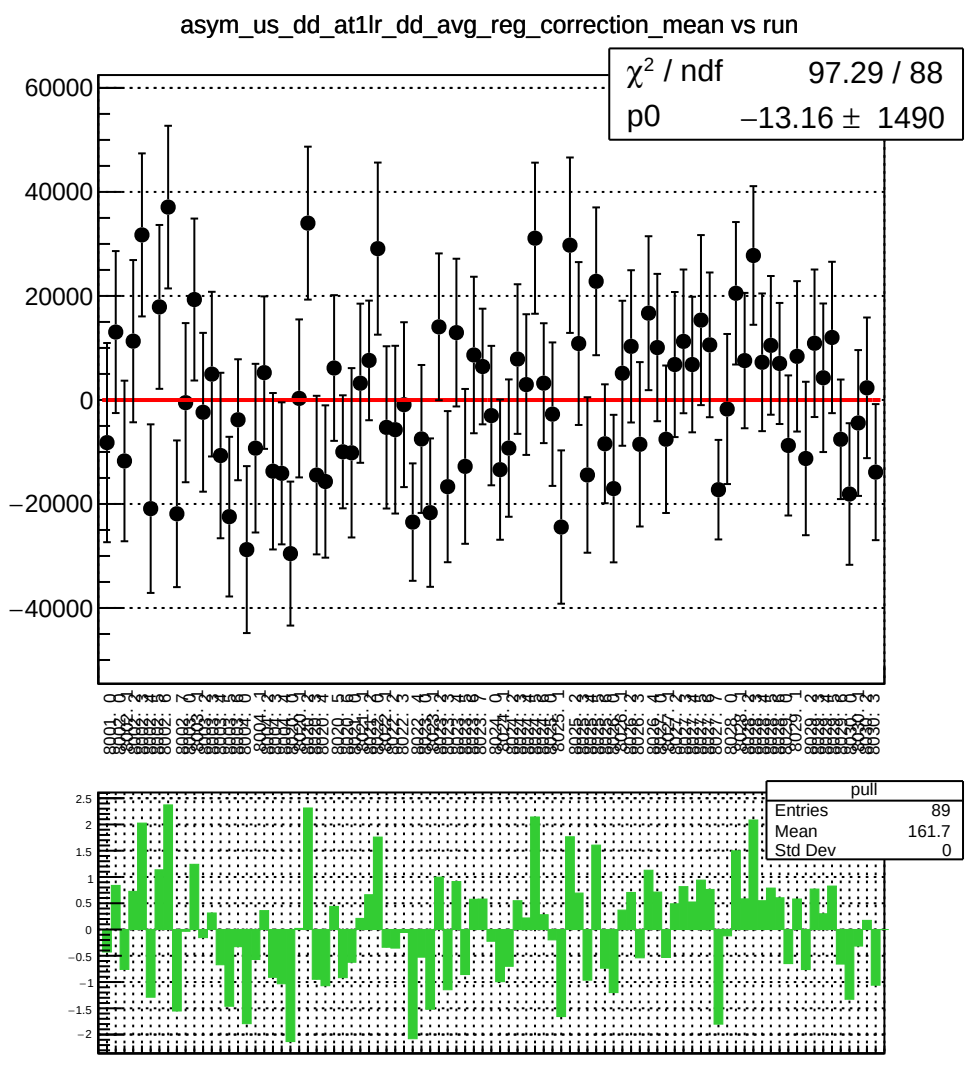

pull1D
Entries 89
Mean 0.06515
Std Dev 1.096

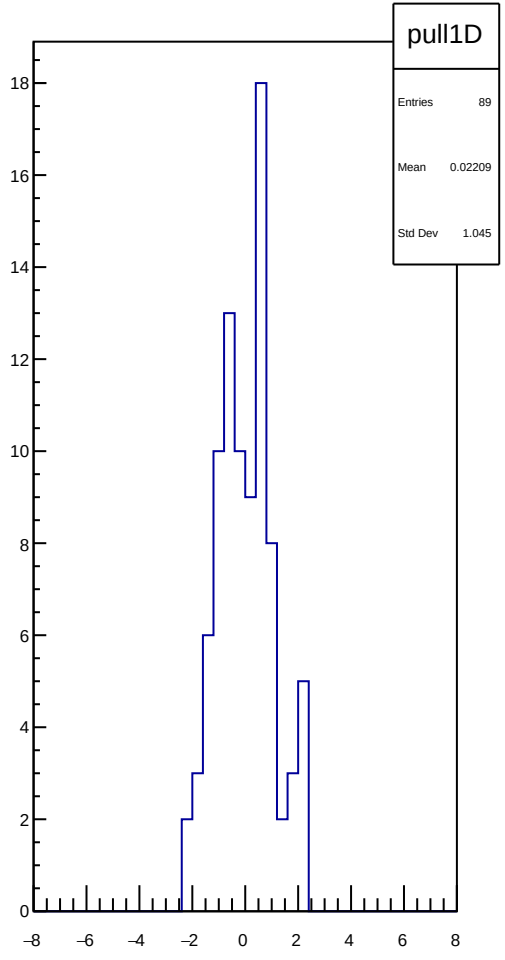

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
1.4
1.2
1
0.8
0.6
0.4
0.2
χ² / ndf 8.065e+05 / 88
p0 1.47e−10 ± 1.526e−13

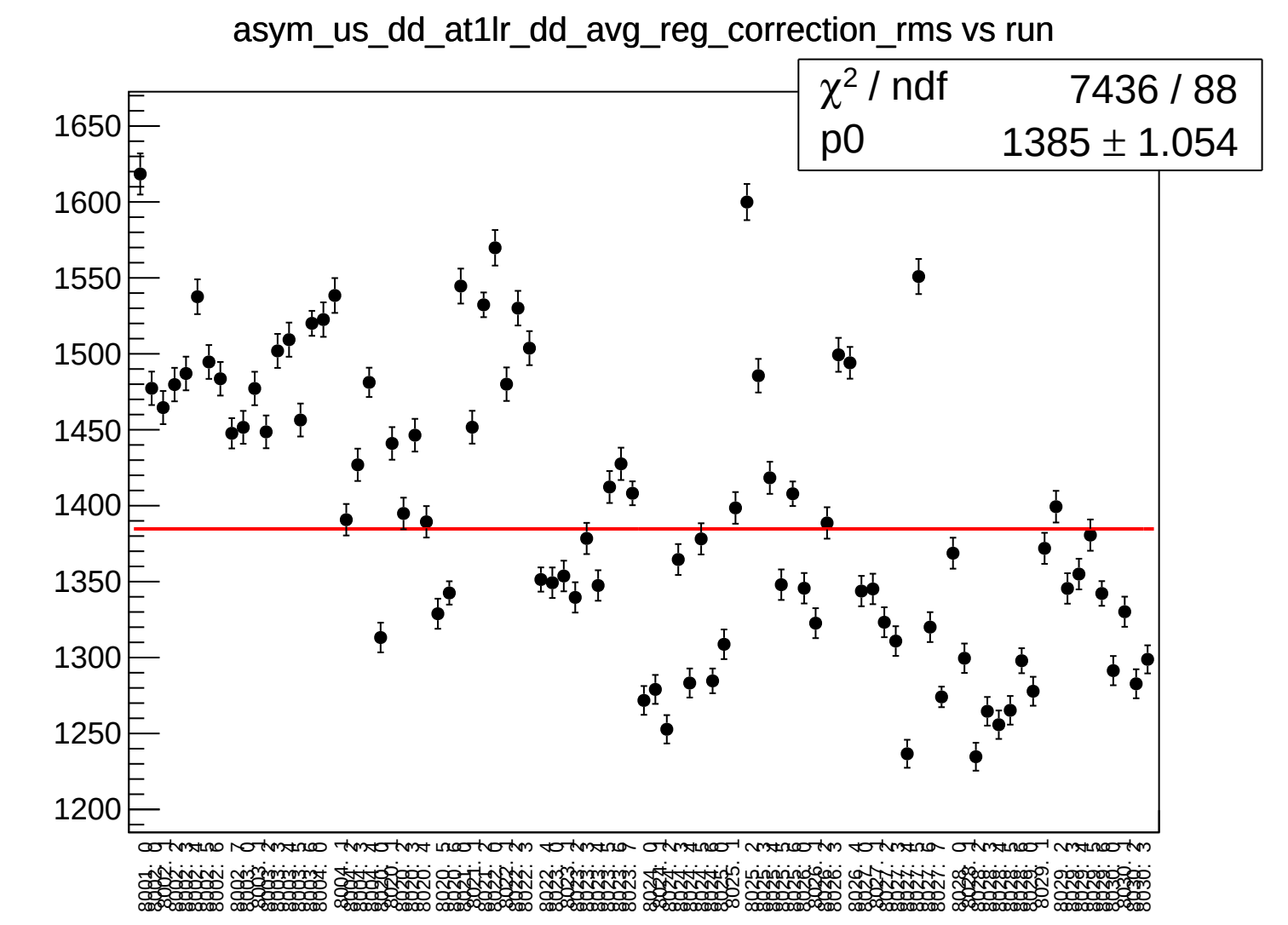

reg_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 104.3 / 88
p0 61.83 ± 2338
pull
Entries 89
Mean 11.74
Std Dev 150.9

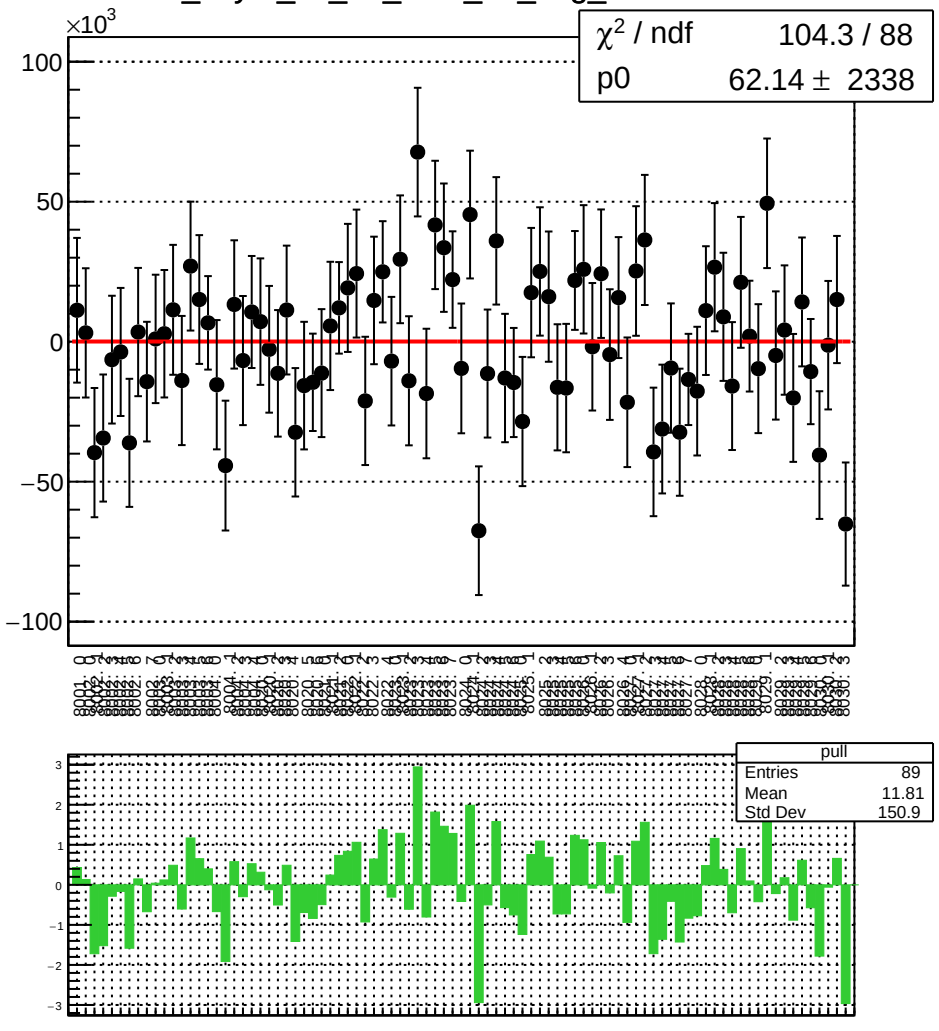

pull1D
Entries 89
Mean −0.006941
Std Dev 1.082

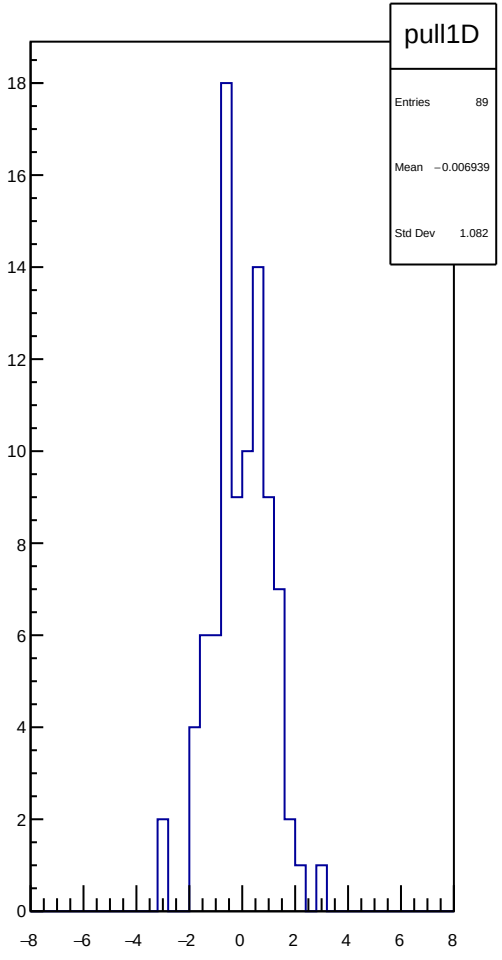

reg_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 85.77 / 88
p0 2177 ± 1.653
2240
2220
2200
2180
2160
2140
2120

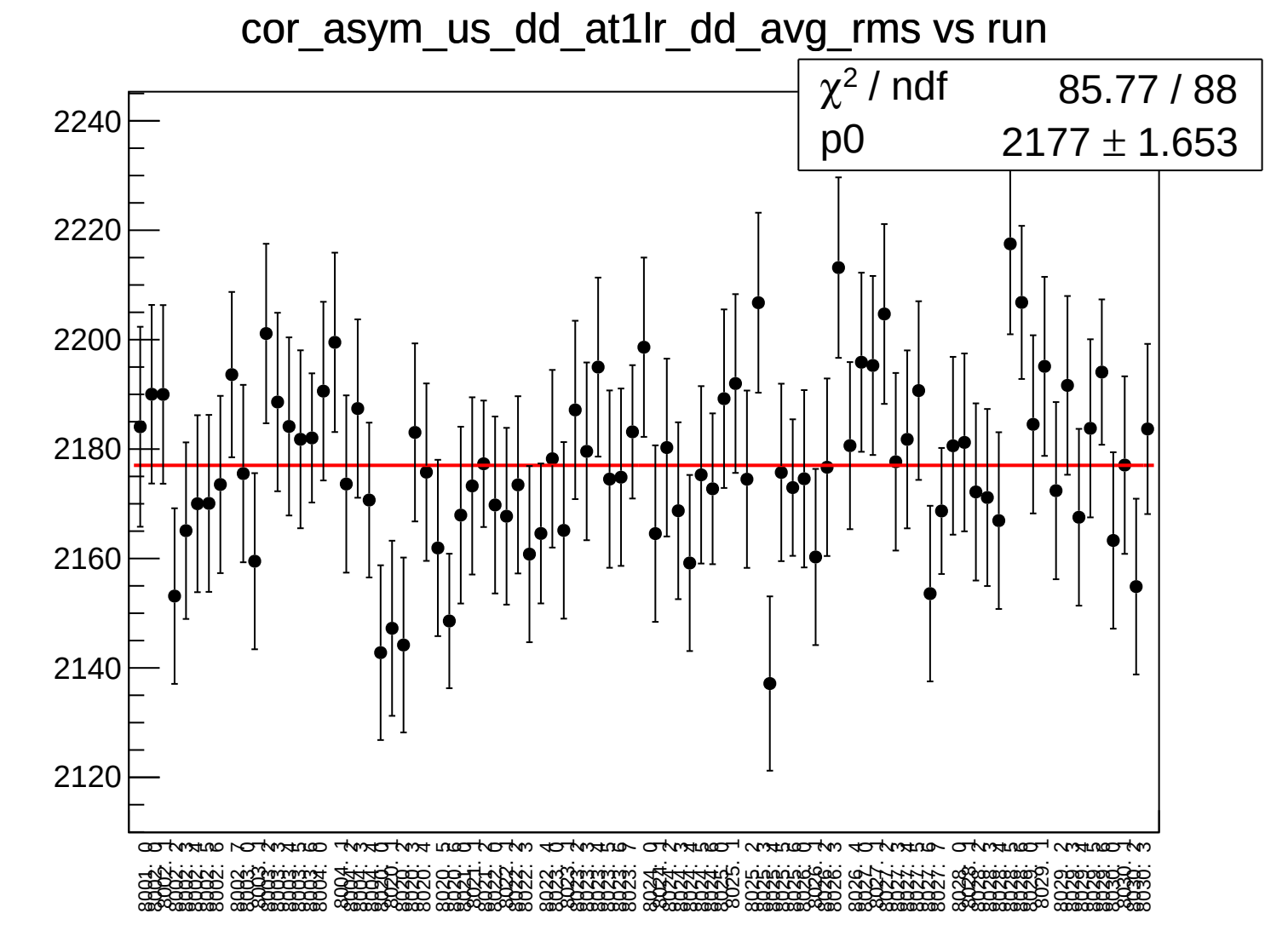

asym_us_dd_at1lr_dd_avg_reg_correction_mean vs run
χ² / ndf 97.29 / 88
p0 −13.16 ± 1490
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 161.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

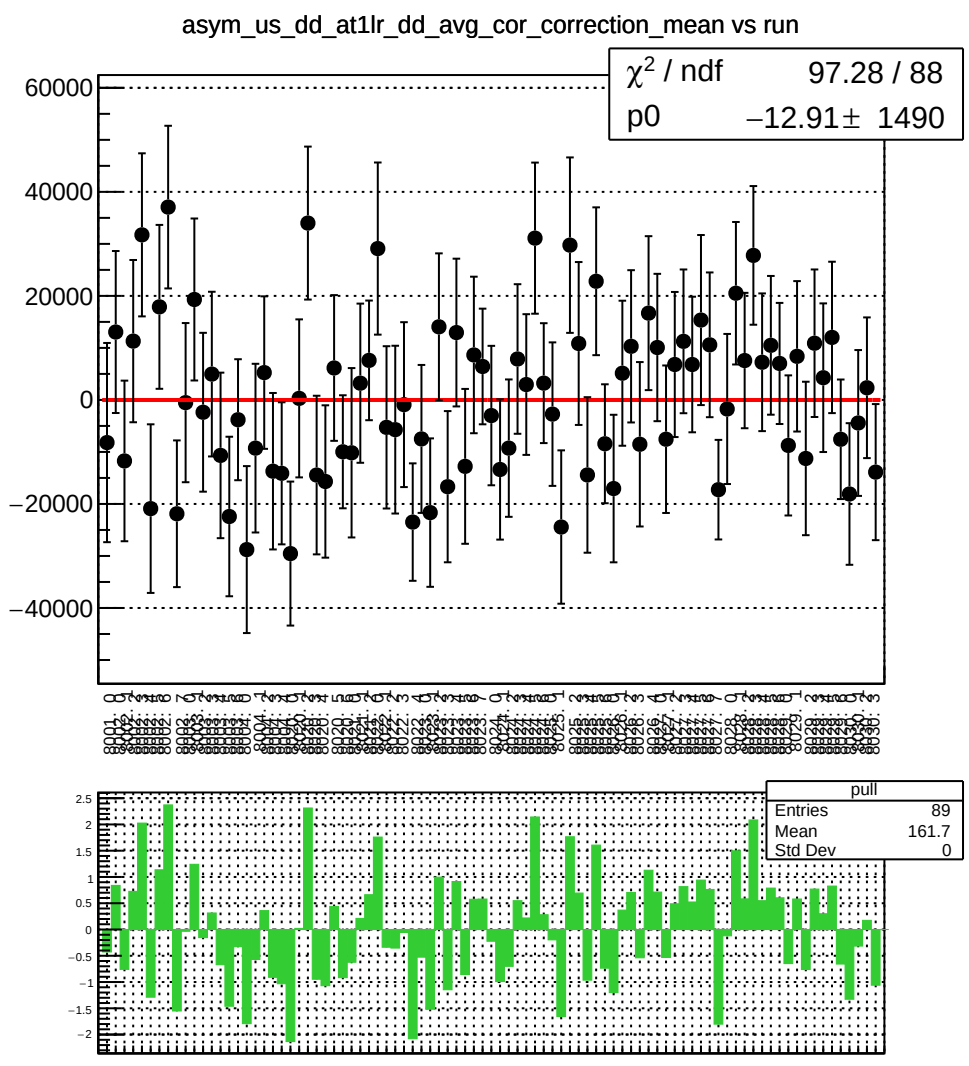

pull1D
Entries 89
Mean 0.02209
Std Dev 1.045
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

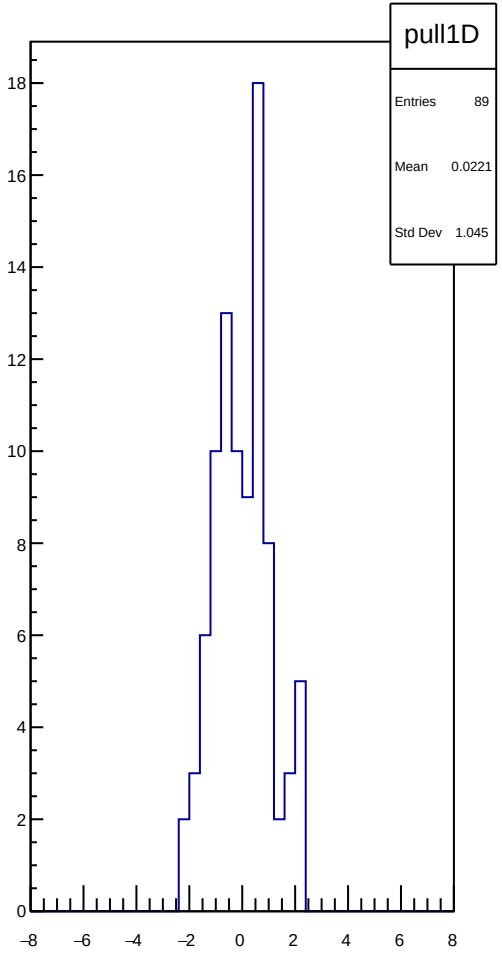

asym_us_dd_at1lr_dd_avg_reg_correction_rms vs run
χ² / ndf 7436 / 88
p0 1385 ± 1.054
1650
1600
1550
1500
1450
1400
1350
1300
1250
1200

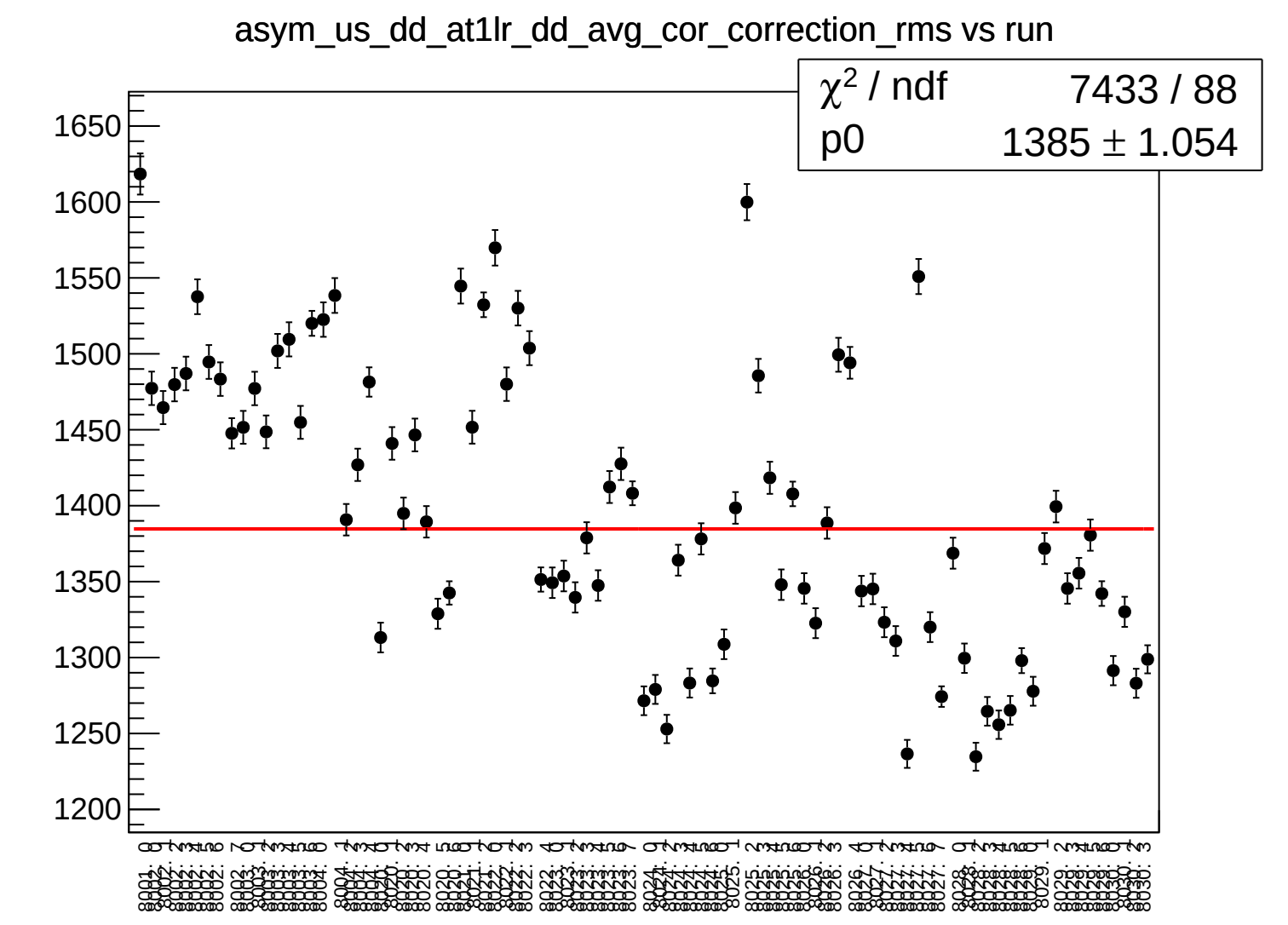

cor_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 104.3 / 88
p0 62.14 ± 2338
pull
Entries 89
Mean 11.81
Std Dev 150.9

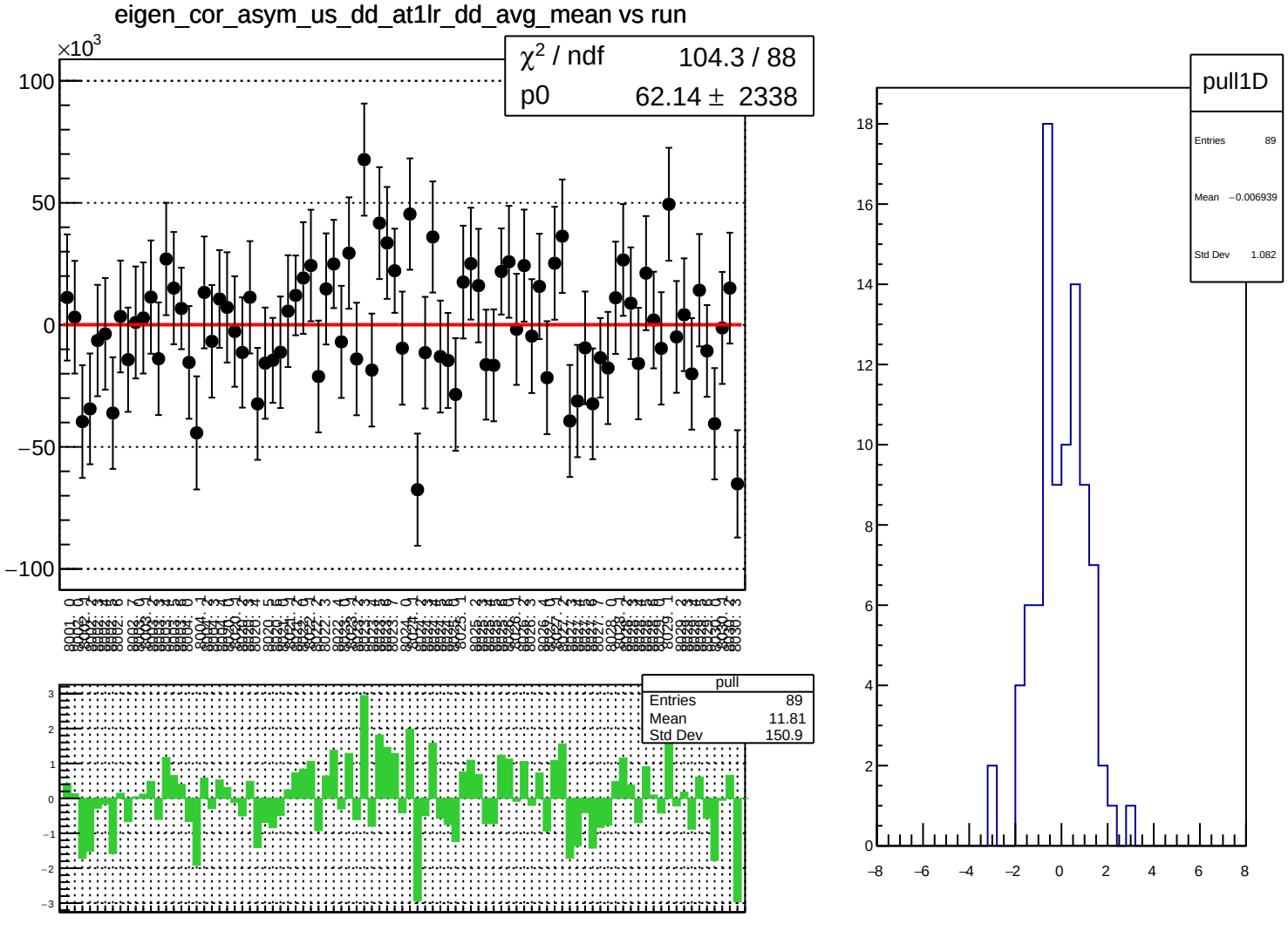

pull1D
Entries 89
Mean −0.006939
Std Dev 1.082

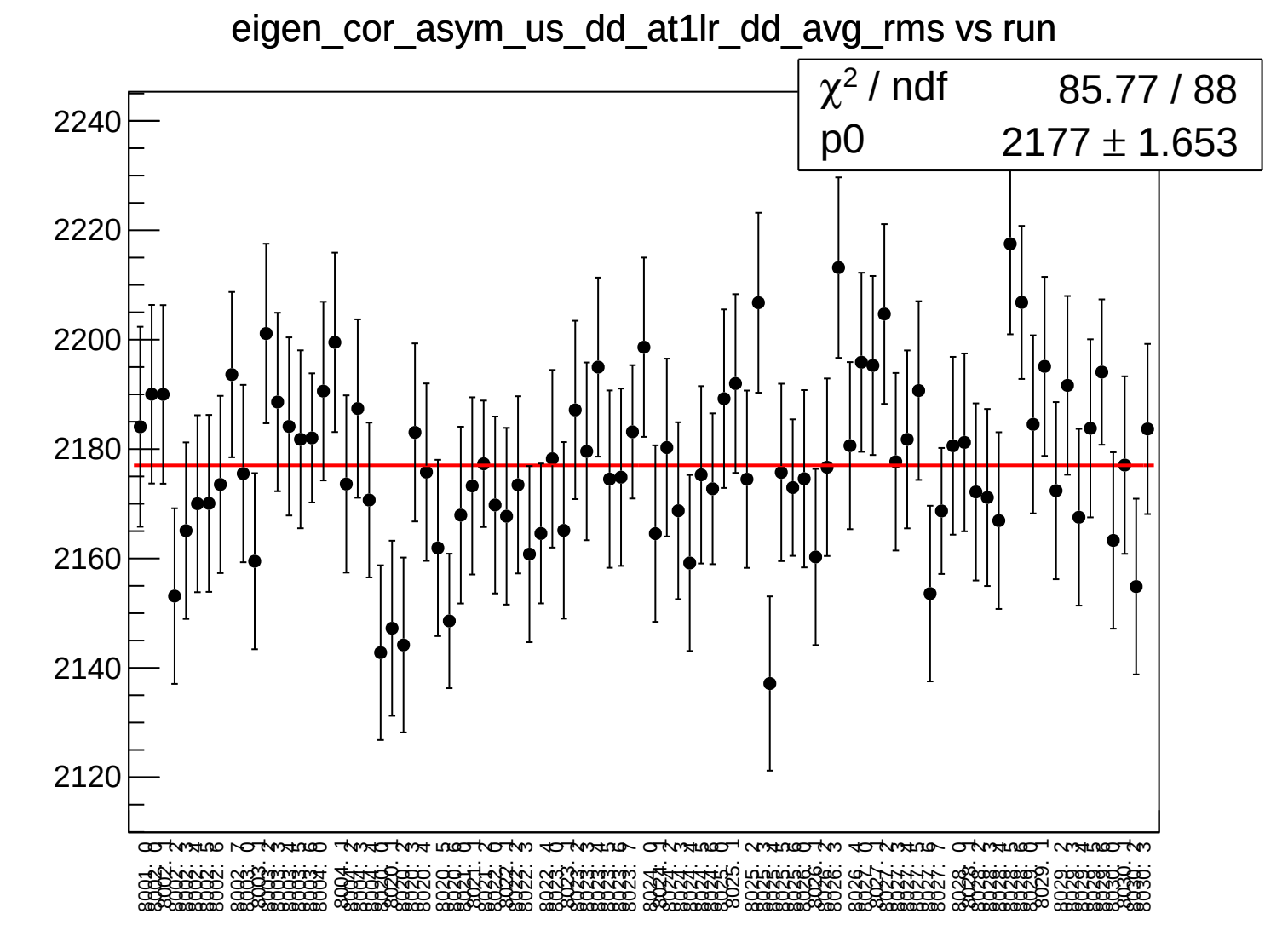

cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 85.77 / 88
p0 2177 ± 1.653
2240
2220
2200
2180
2160
2140
2120

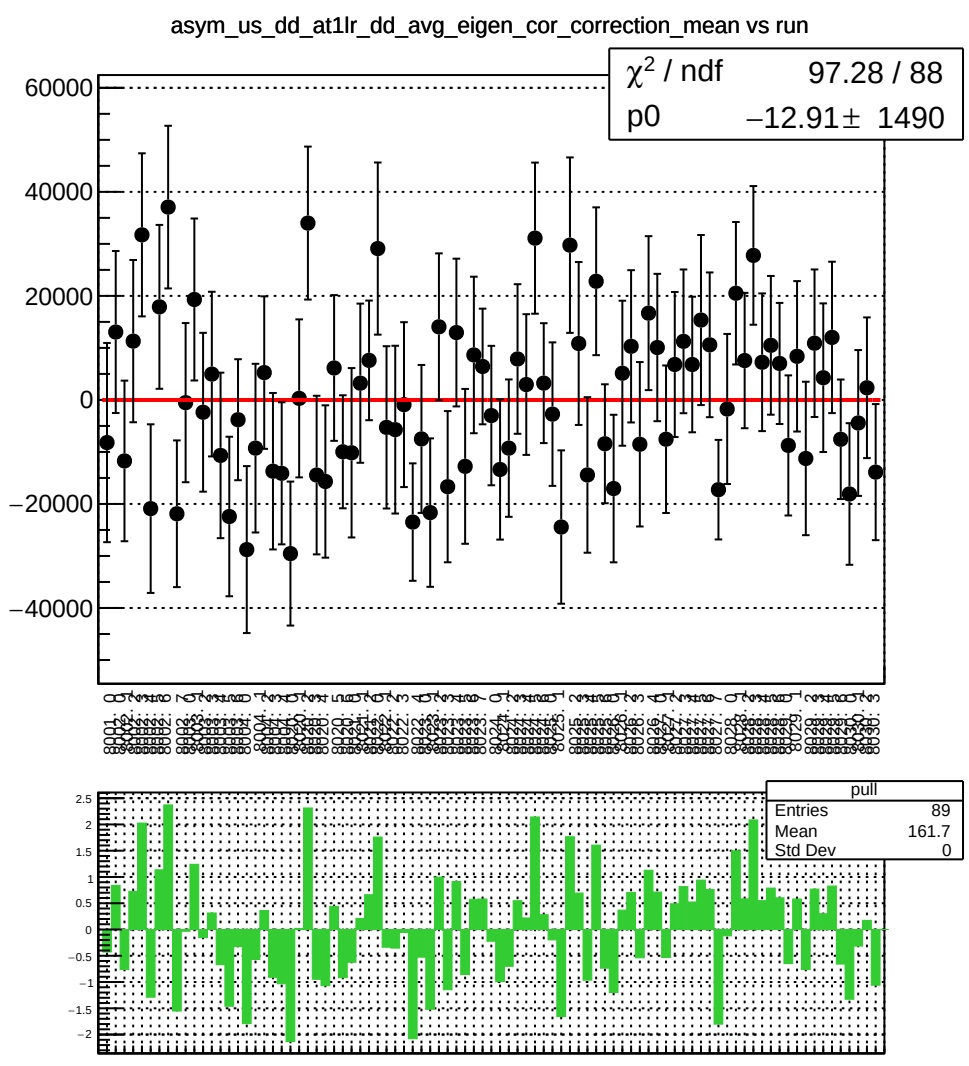

asym_us_dd_at1lr_dd_avg_cor_correction_mean vs run
χ² / ndf 97.28 / 88
p0 −12.91± 1490
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 161.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

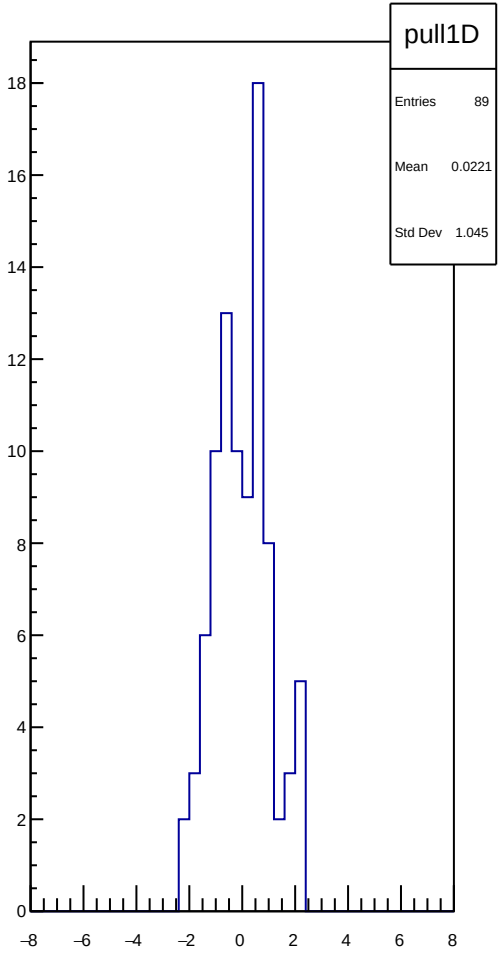

pull1D
Entries 89
Mean 0.0221
Std Dev 1.045
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

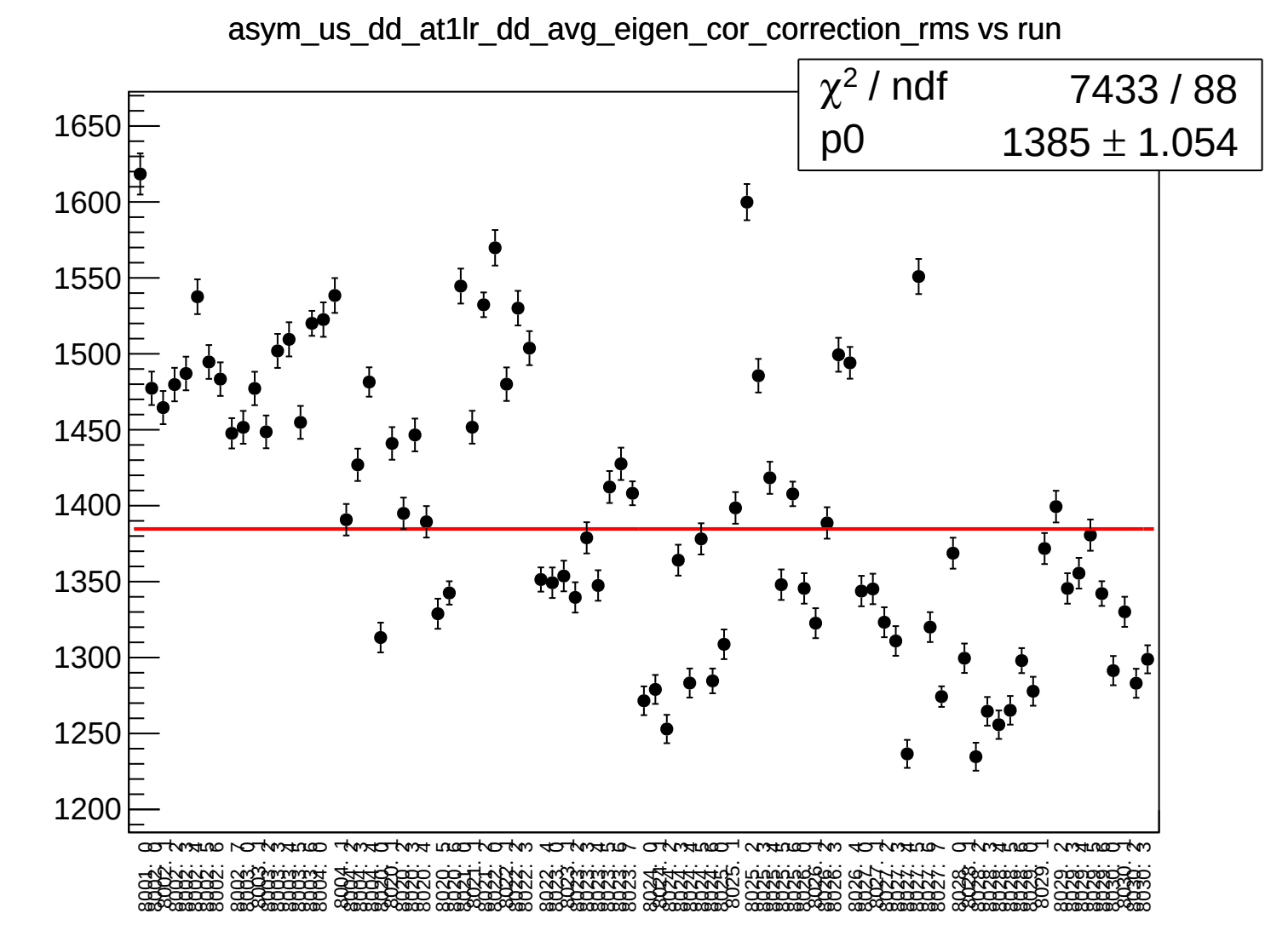

asym_us_dd_at1lr_dd_avg_cor_correction_rms vs run
χ² / ndf 7433 / 88
p0 1385 ± 1.054
1650
1600
1550
1500
1450
1400
1350
1300
1250
1200

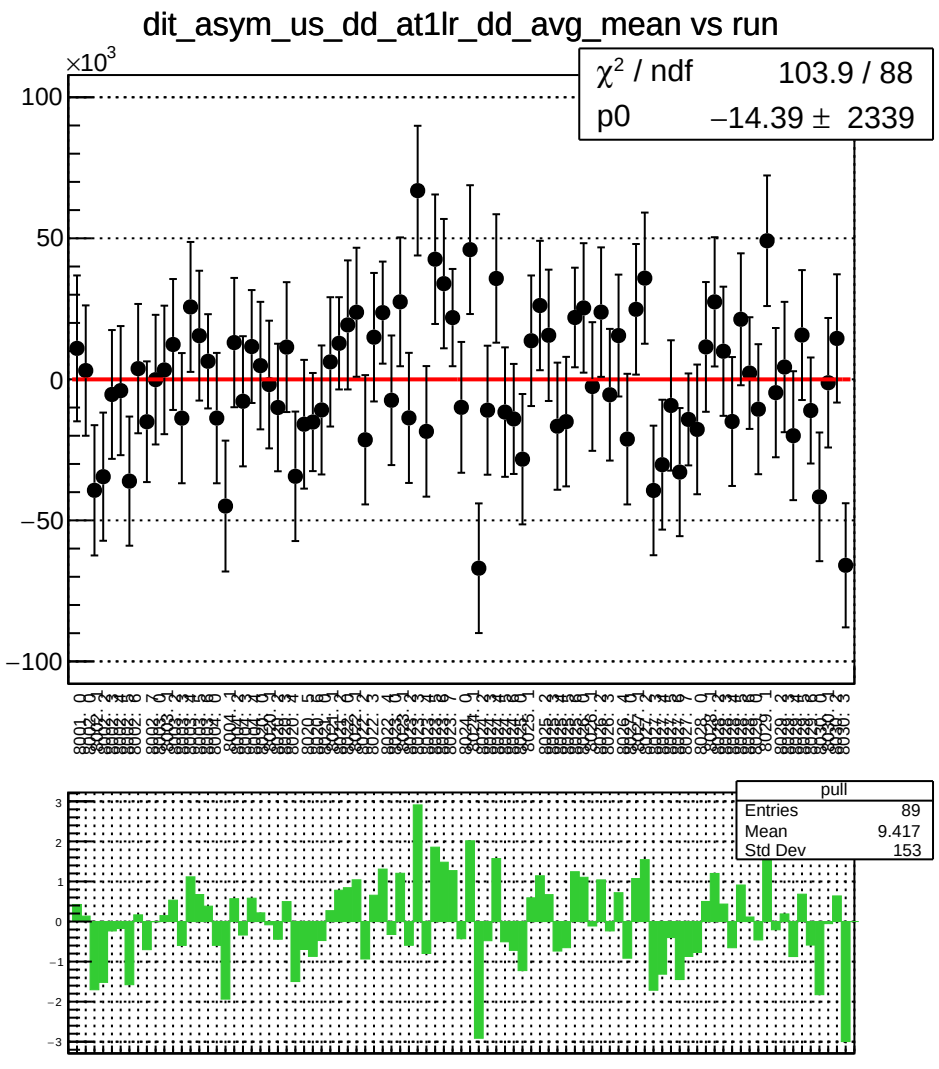

eigen_cor_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 104.3 / 88
p0 62.14 ± 2338
pull
Entries 89
Mean 11.81
Std Dev 150.9
pull1D
Entries 89
Mean −0.006939
Std Dev 1.082

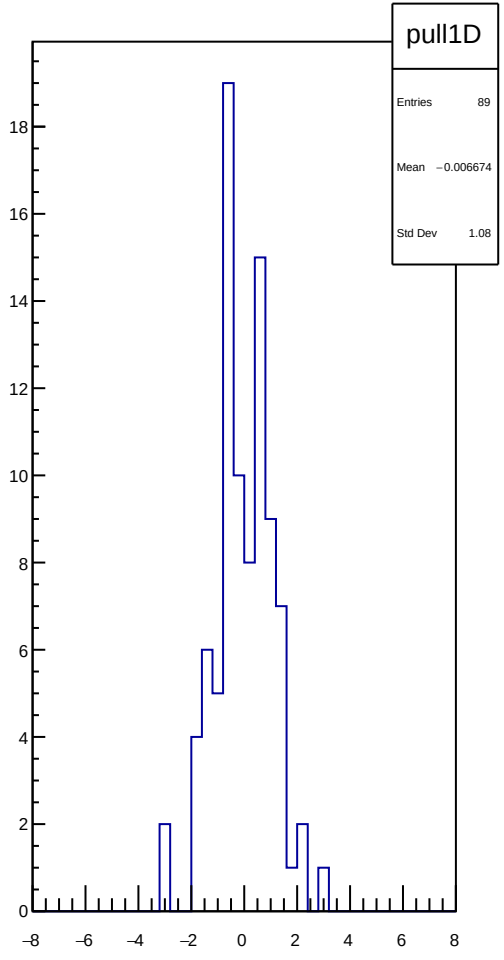

eigen_cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 85.77 / 88
p0 2177 ± 1.653
2240
2220
2200
2180
2160
2140
2120

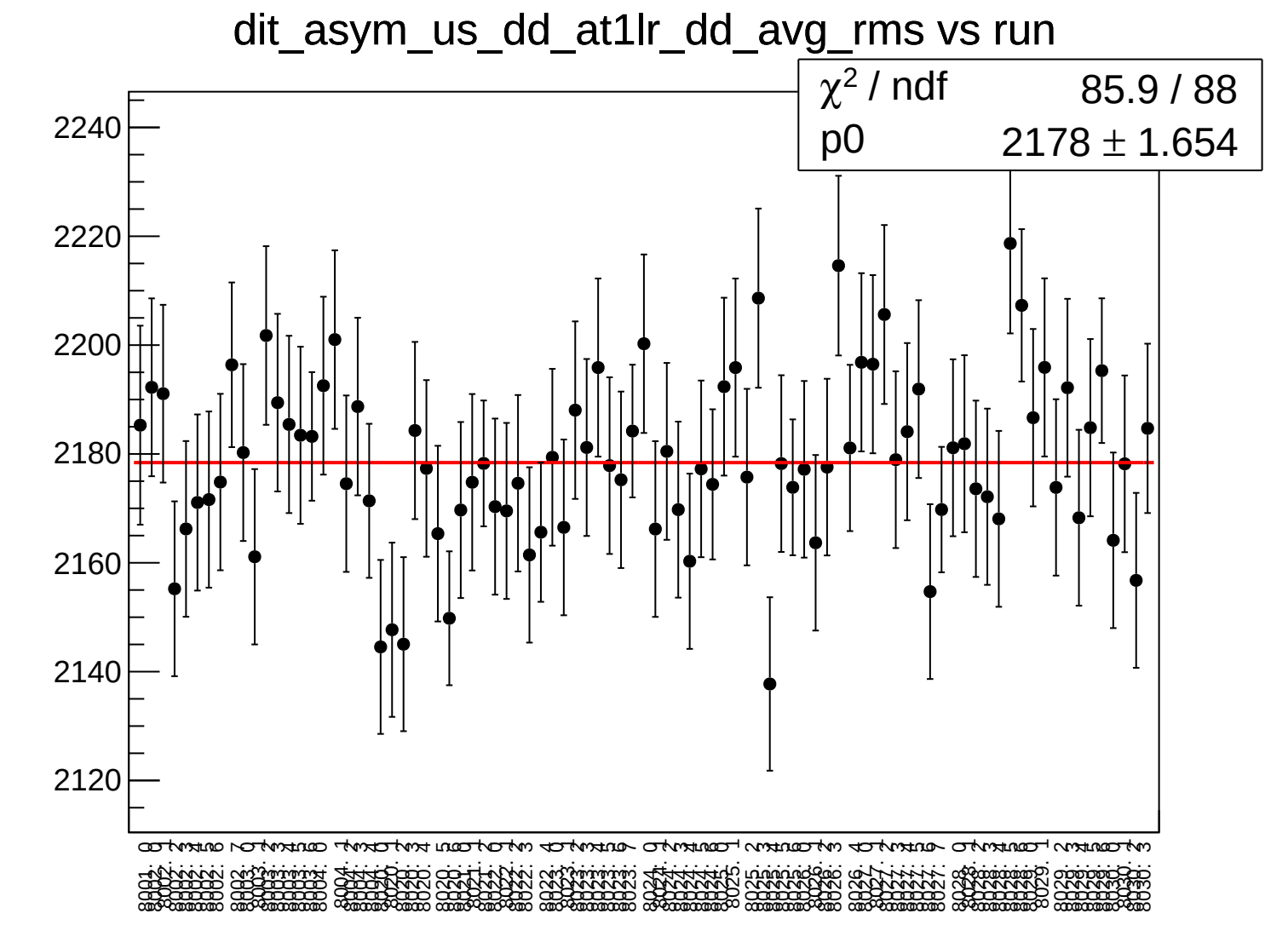

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 97.28 / 88
p0 −12.91± 1490
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 161.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

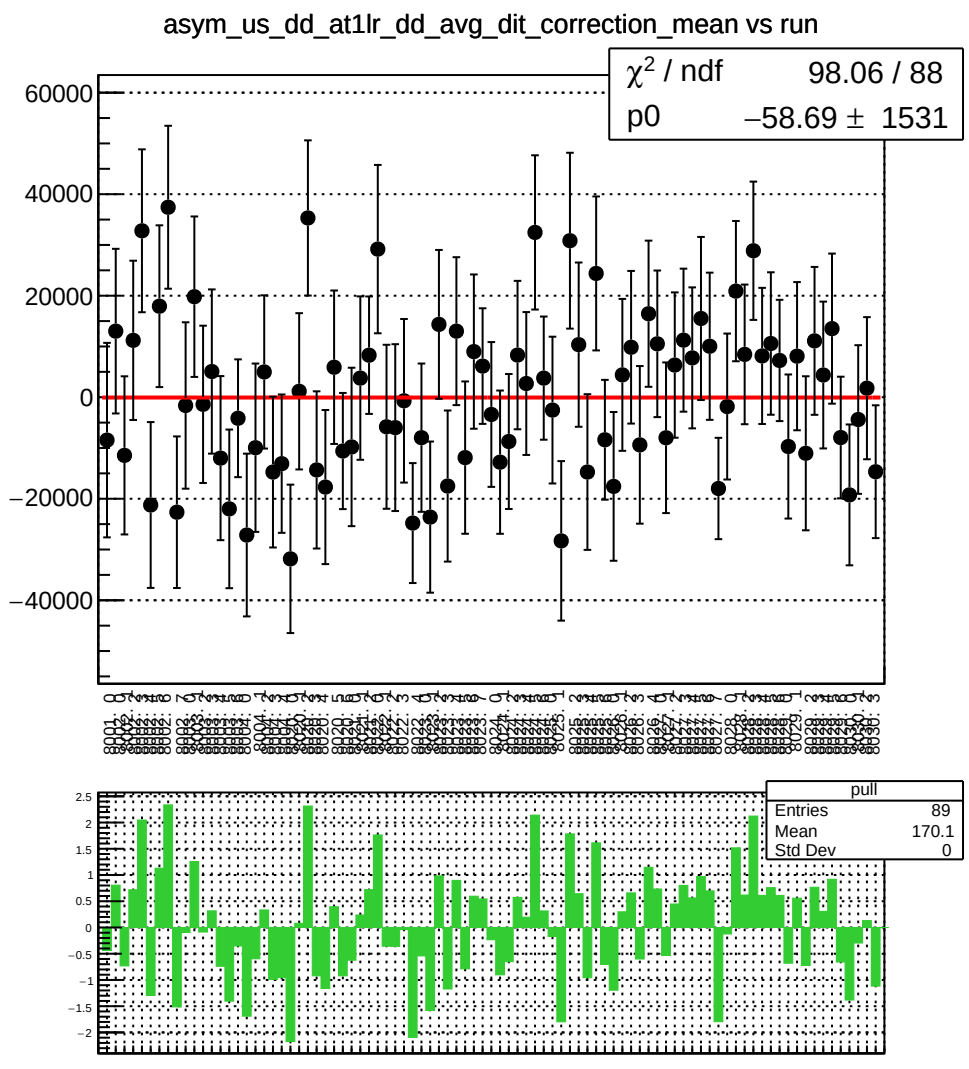

pull1D
Entries 89
Mean 0.0221
Std Dev 1.045
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

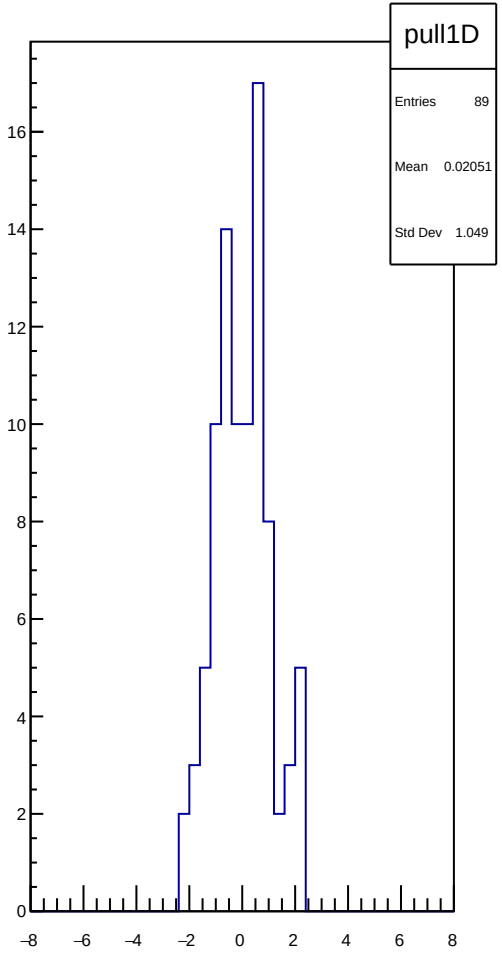

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 7433 / 88
p0 1385 ± 1.054
1650
1600
1550
1500
1450
1400
1350
1300
1250
1200

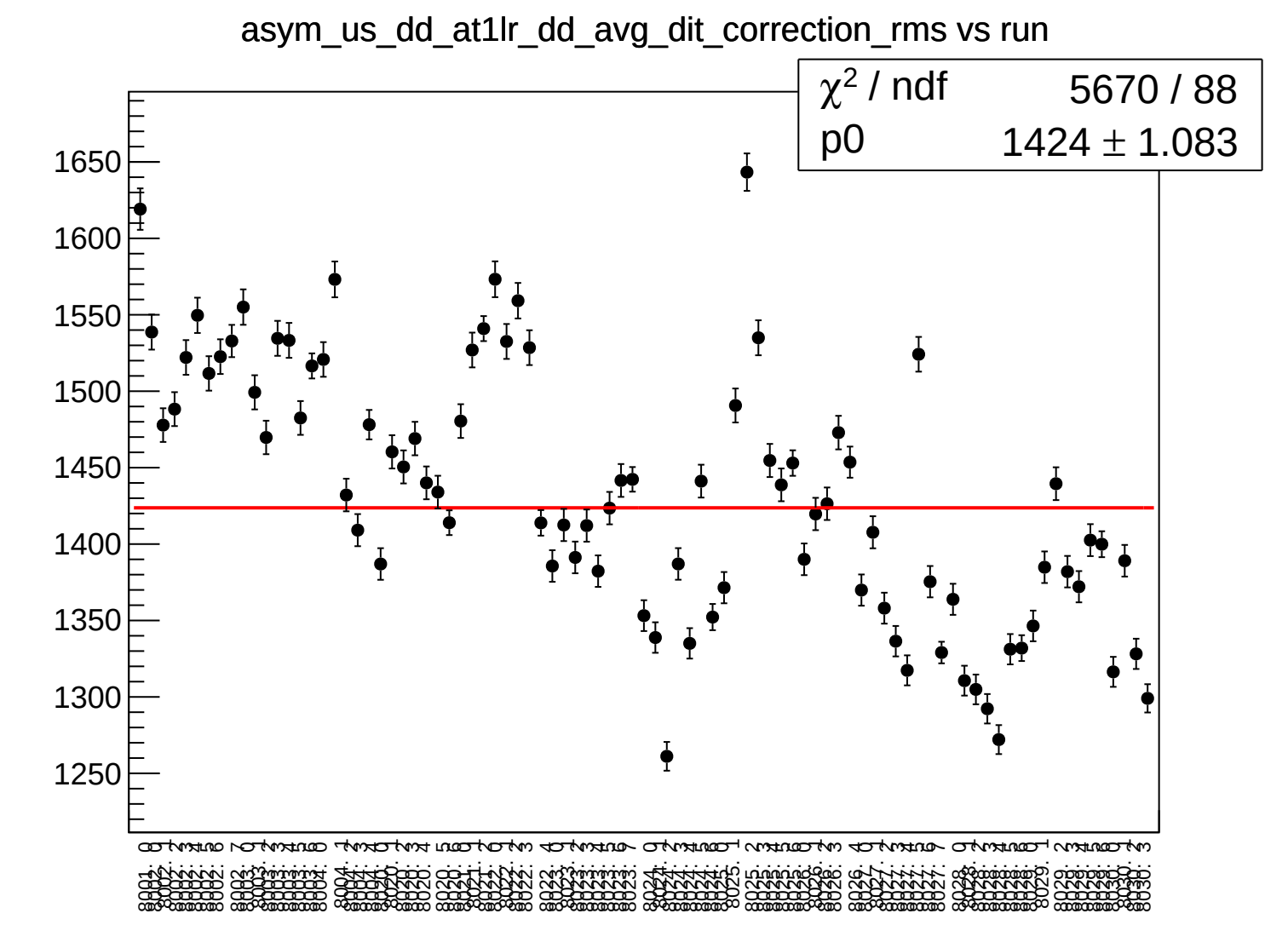

dit_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 103.9 / 88
p0 −14.39 ± 2339
100
50
0
−50
−100
pull
Entries 89
Mean 9.417
Std Dev 153
3
2
1
0
−1
−2
−3

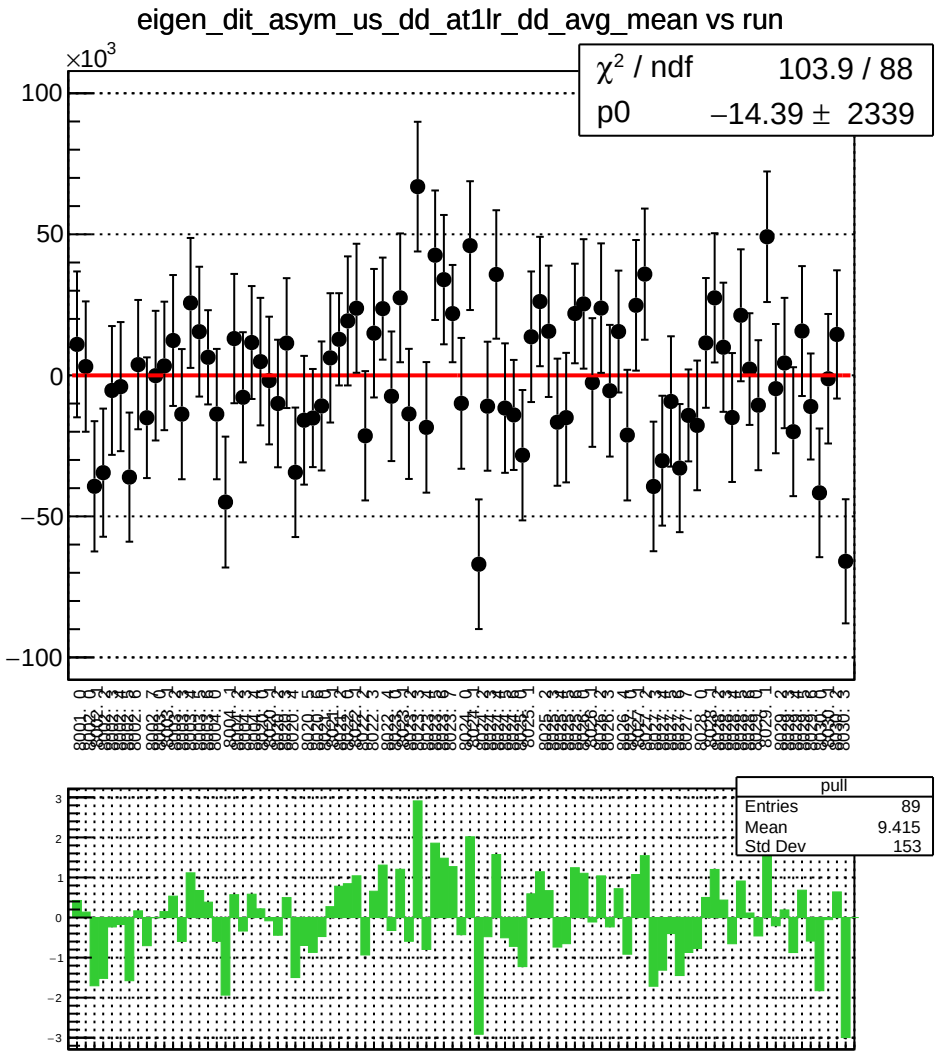

pull1D
Entries 89
Mean −0.006674
Std Dev 1.08
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

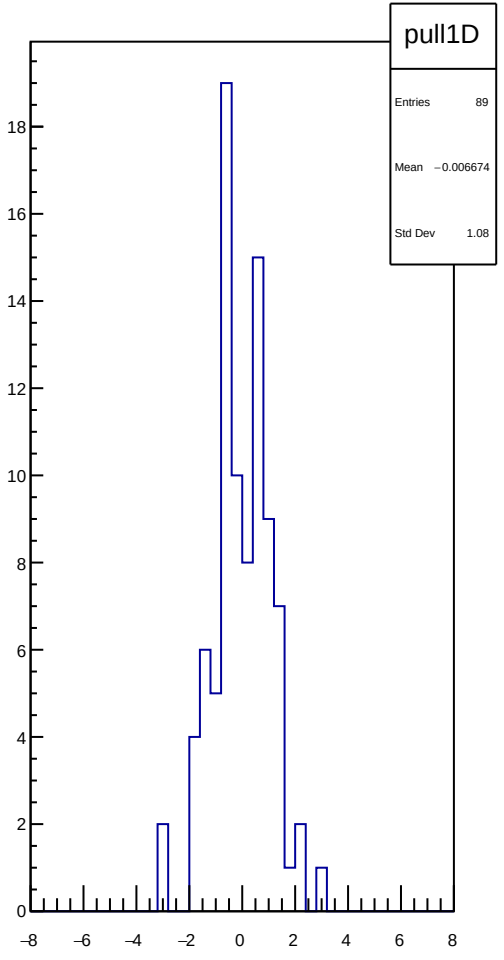

dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 85.9 / 88
p0 2178 ± 1.654
2240
2220
2200
2180
2160
2140
2120

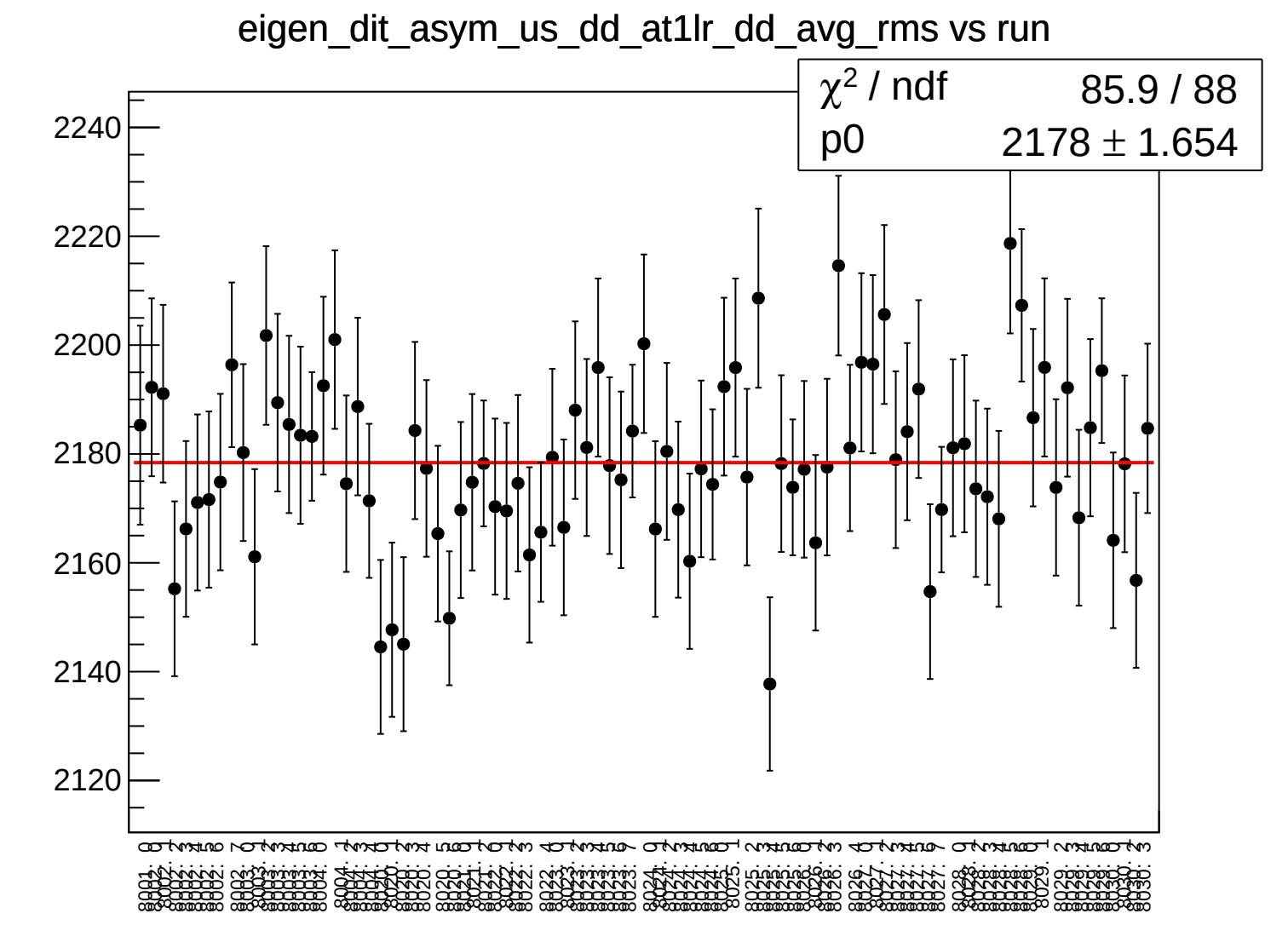

asym_us_dd_at1lr_dd_avg_dit_correction_mean vs run
χ² / ndf 98.06 / 88
p0 −58.69 ± 1531
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 170.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

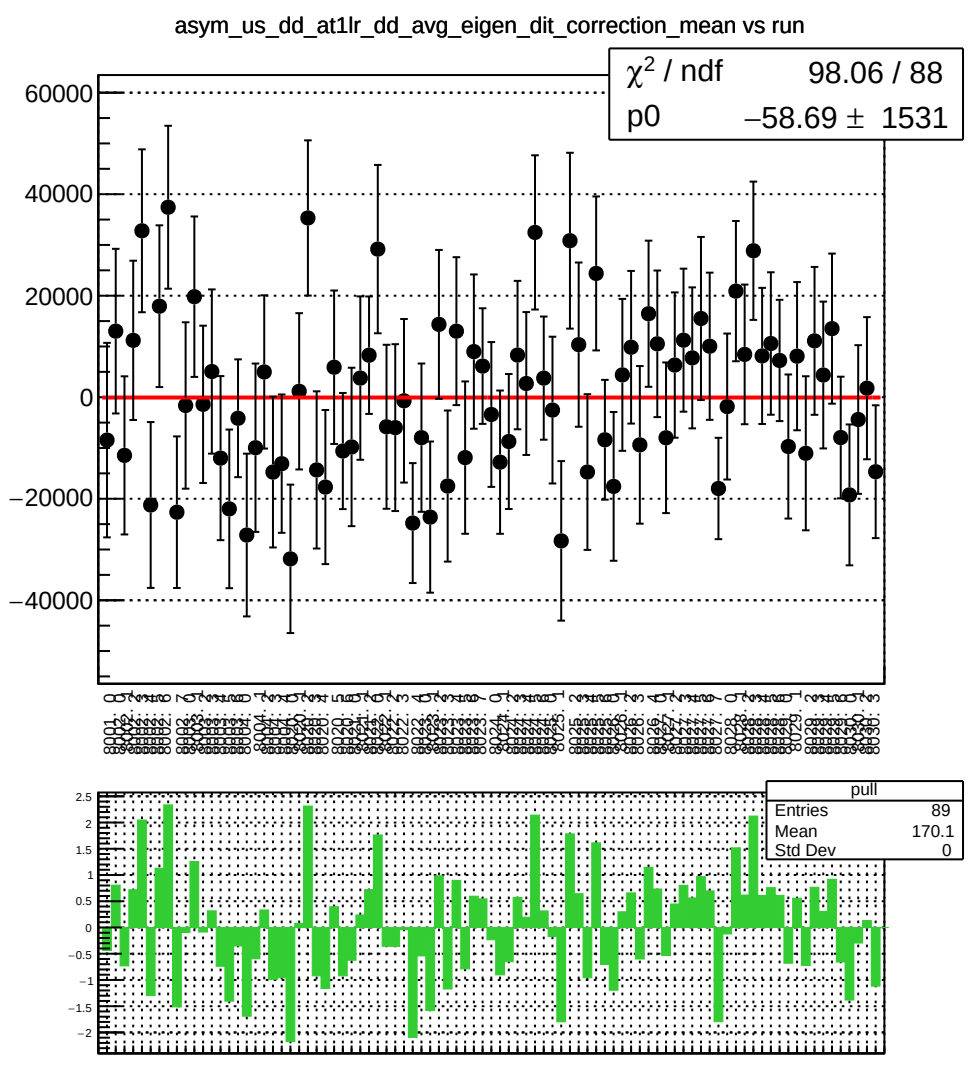

pull1D
Entries 89
Mean 0.02051
Std Dev 1.049
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

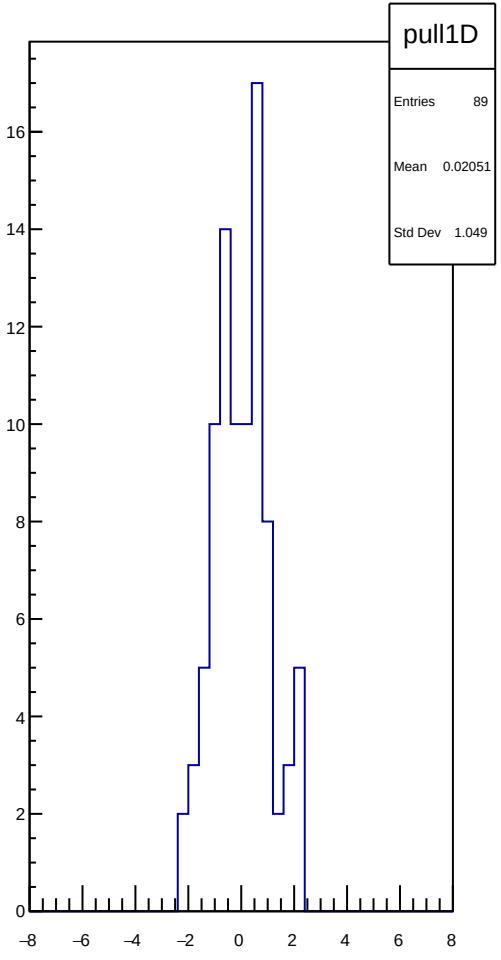

asym_us_dd_at1lr_dd_avg_dit_correction_rms vs run
χ² / ndf 5670 / 88
p0 1424 ± 1.083
1650
1600
1550
1500
1450
1400
1350
1300
1250

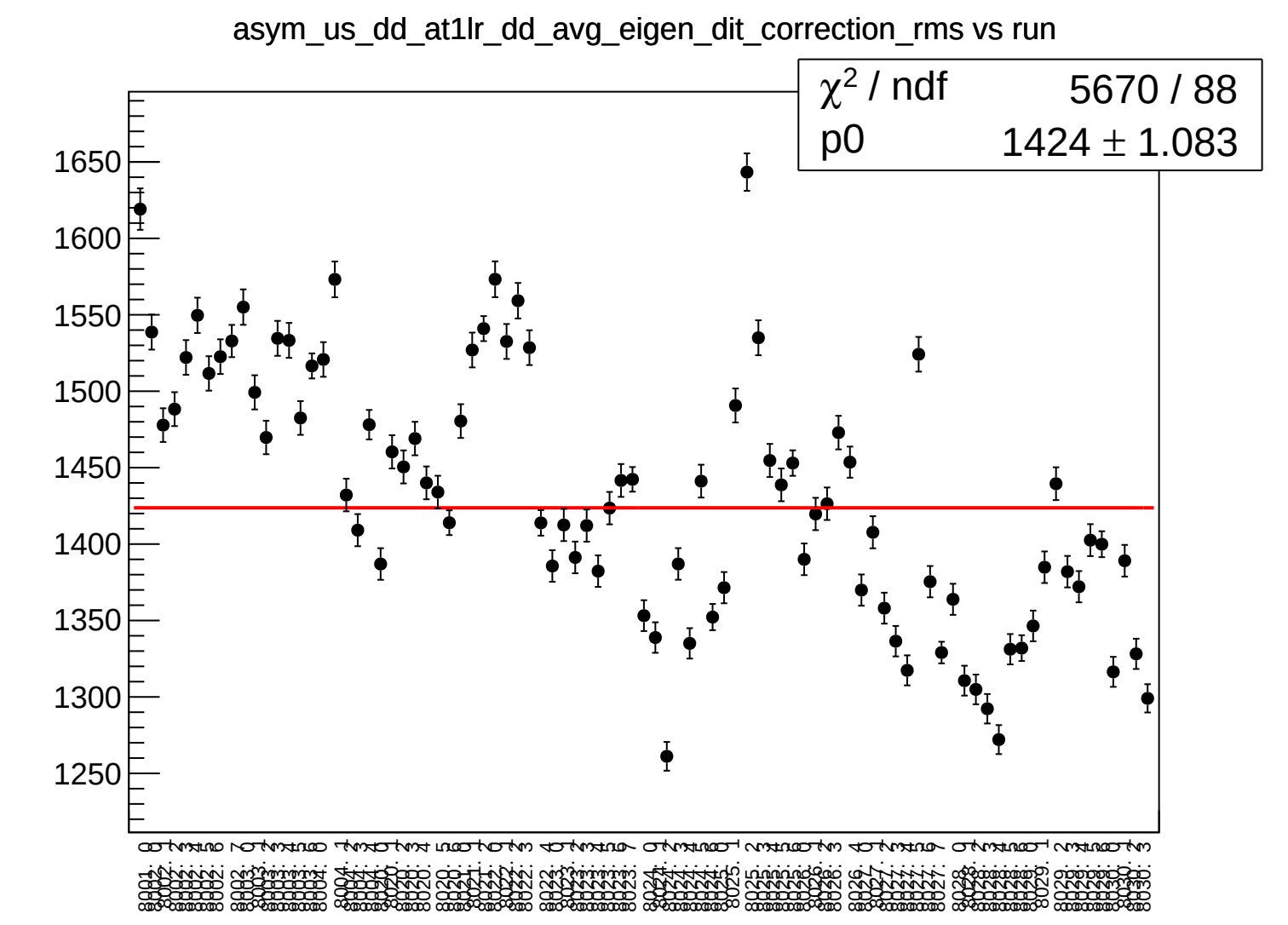

eigen_dit_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 103.9 / 88
p0 −14.39 ± 2339
pull
Entries 89
Mean 9.415
Std Dev 153

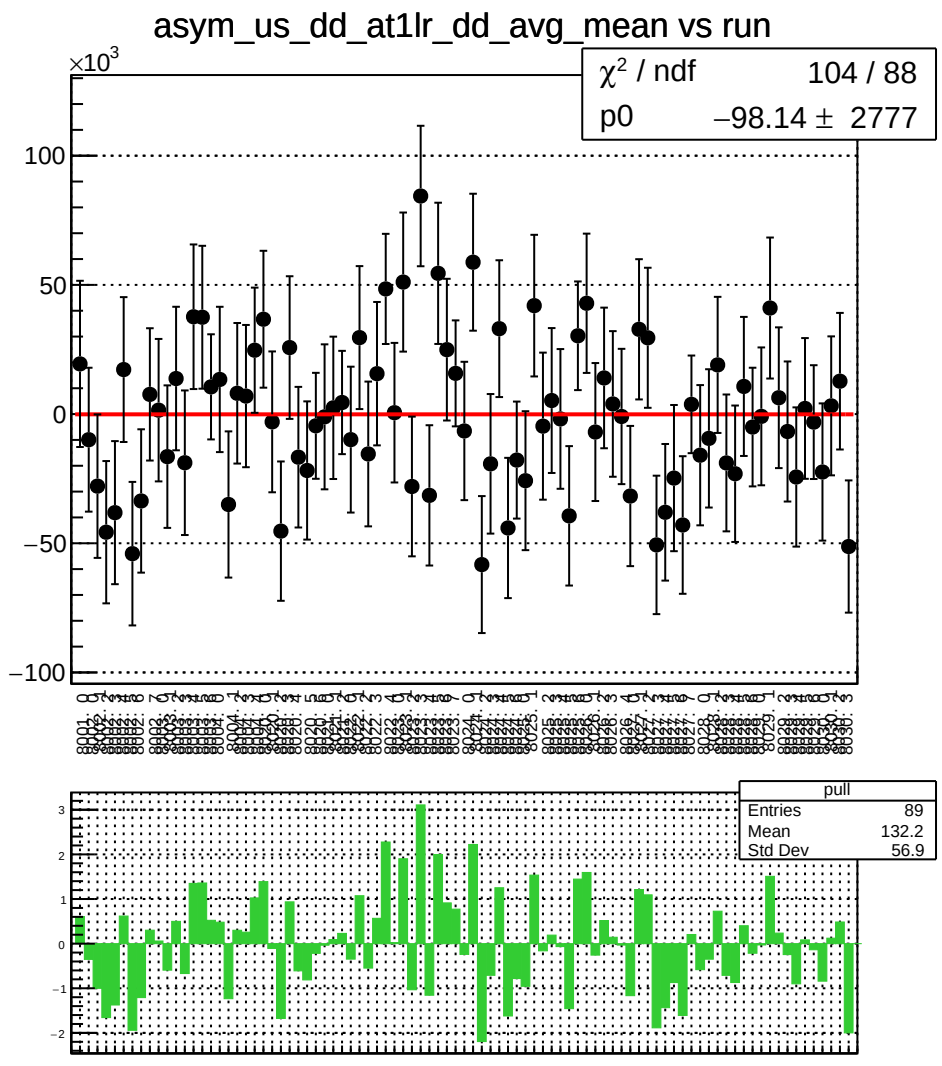

pull1D
Entries 89
Mean −0.006674
Std Dev 1.08

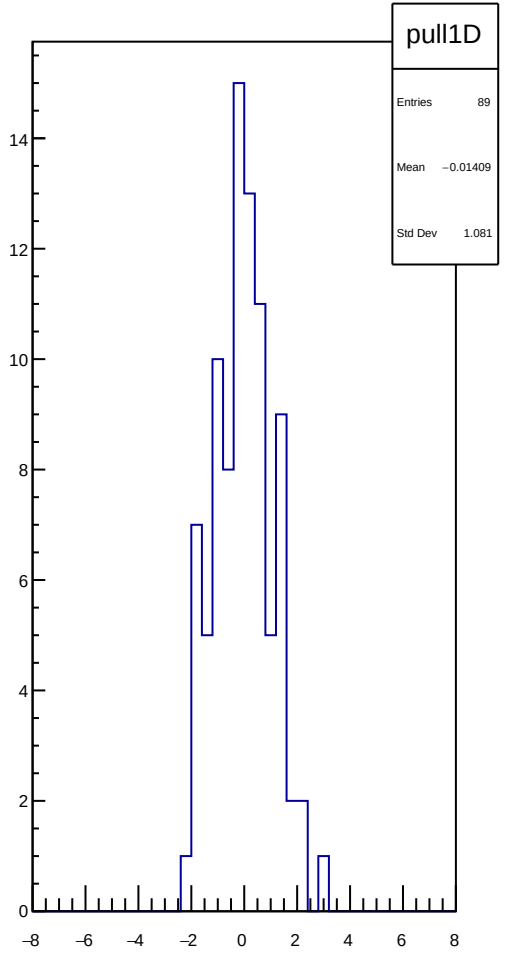

eigen_dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ^2 / ndf 85.9 / 88
p0 2178 ± 1.654
2240
2220
2200
2180
2160
2140
2120

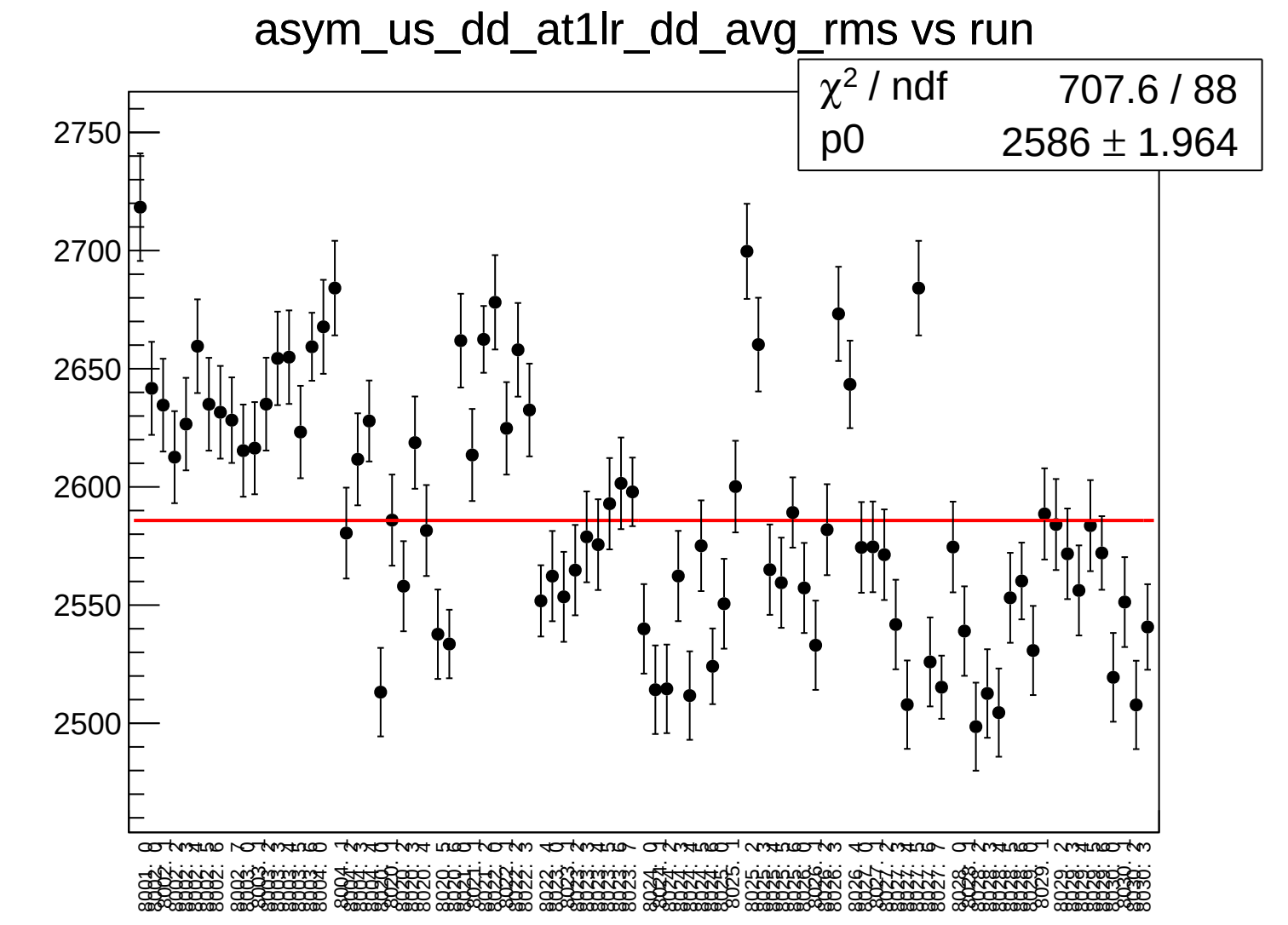

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 98.06 / 88
p0 −58.69 ± 1531
pull
Entries 89
Mean 170.1
Std Dev 0

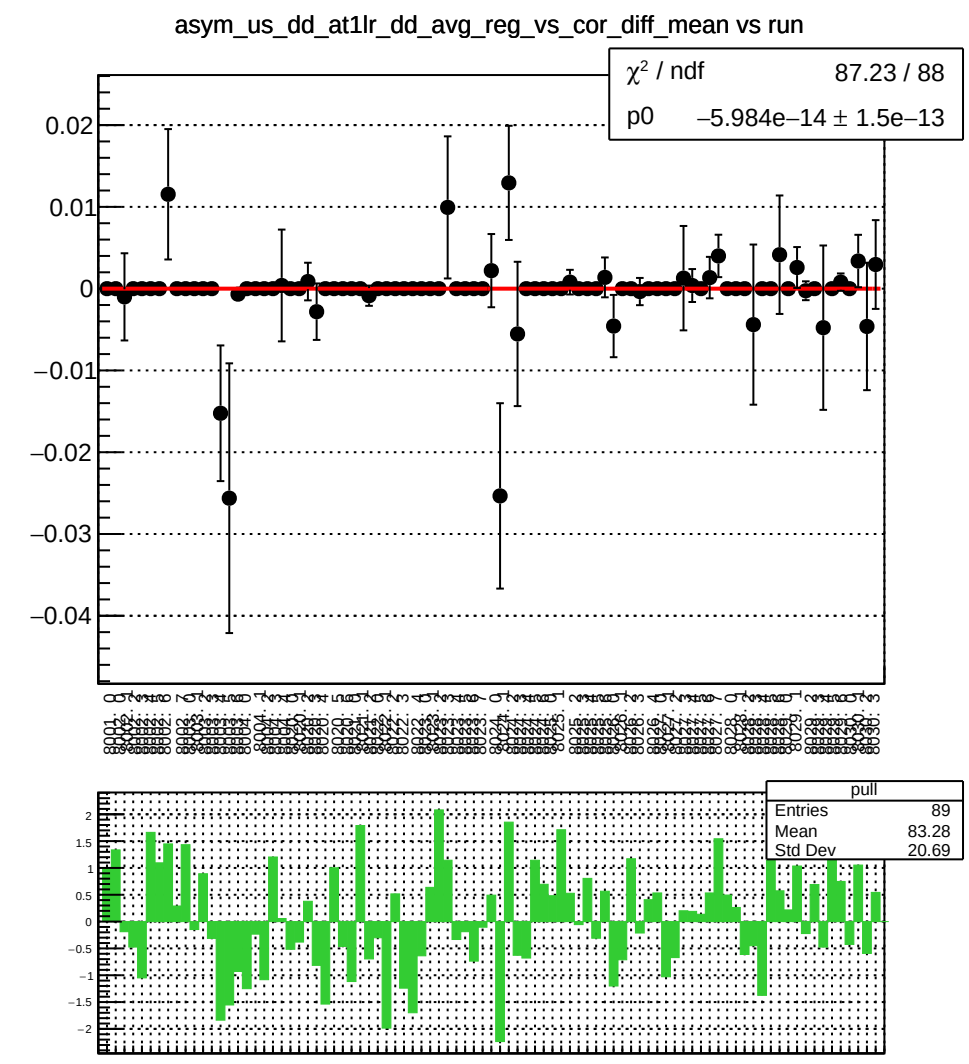

pull1D
Entries 89
Mean 0.02051
Std Dev 1.049

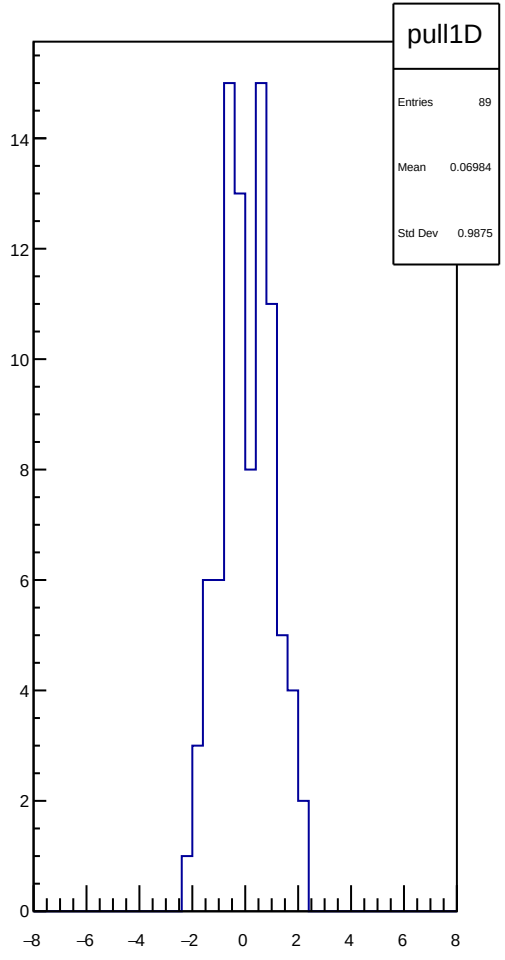

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 5670 / 88
p0 1424 ± 1.083
1650
1600
1550
1500
1450
1400
1350
1300
1250

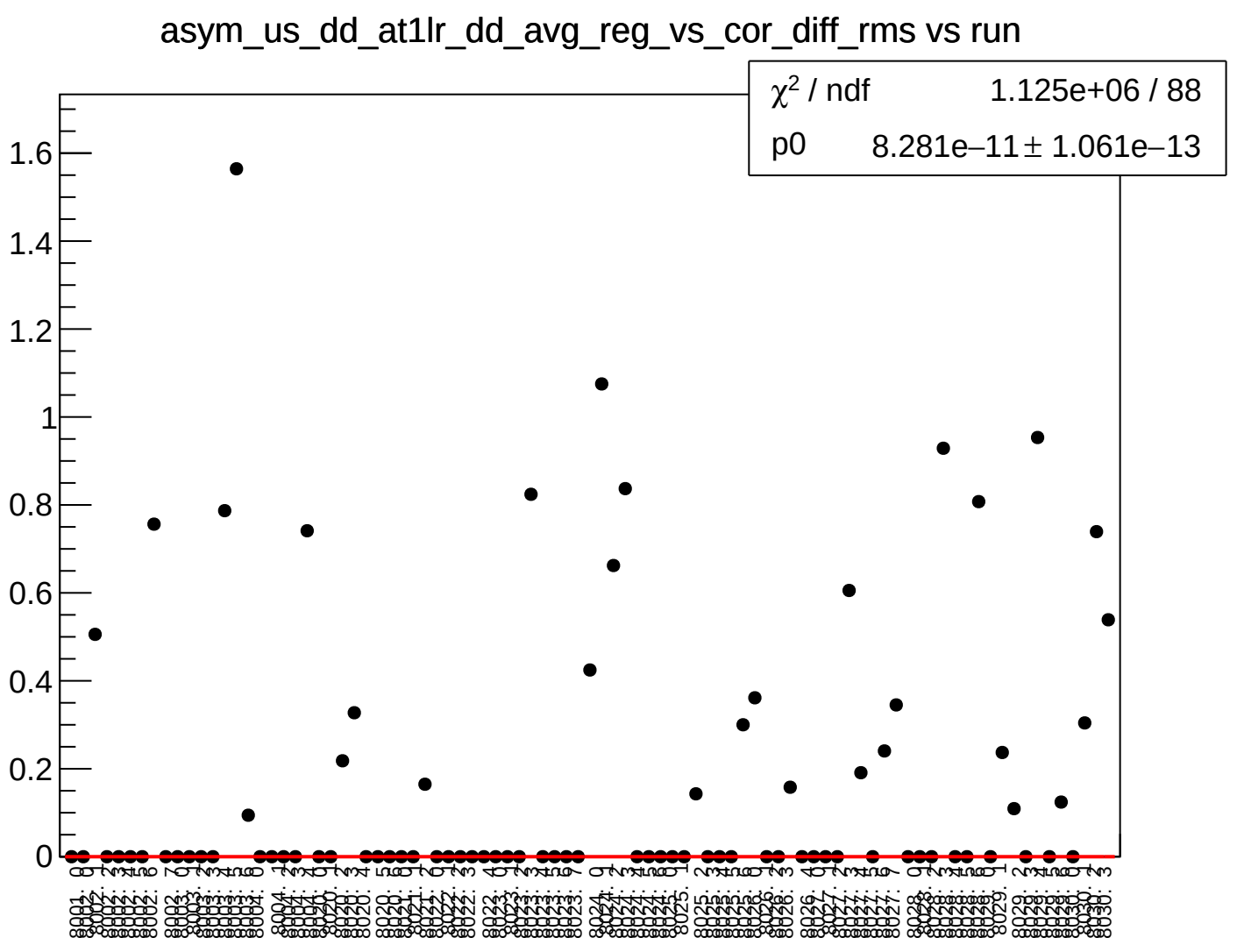

asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 104 / 88
p0 −98.14 ± 2777
100
50
0
−50
−100
pull
Entries 89
Mean 132.2
Std Dev 56.9
3
2
1
0
−1
−2

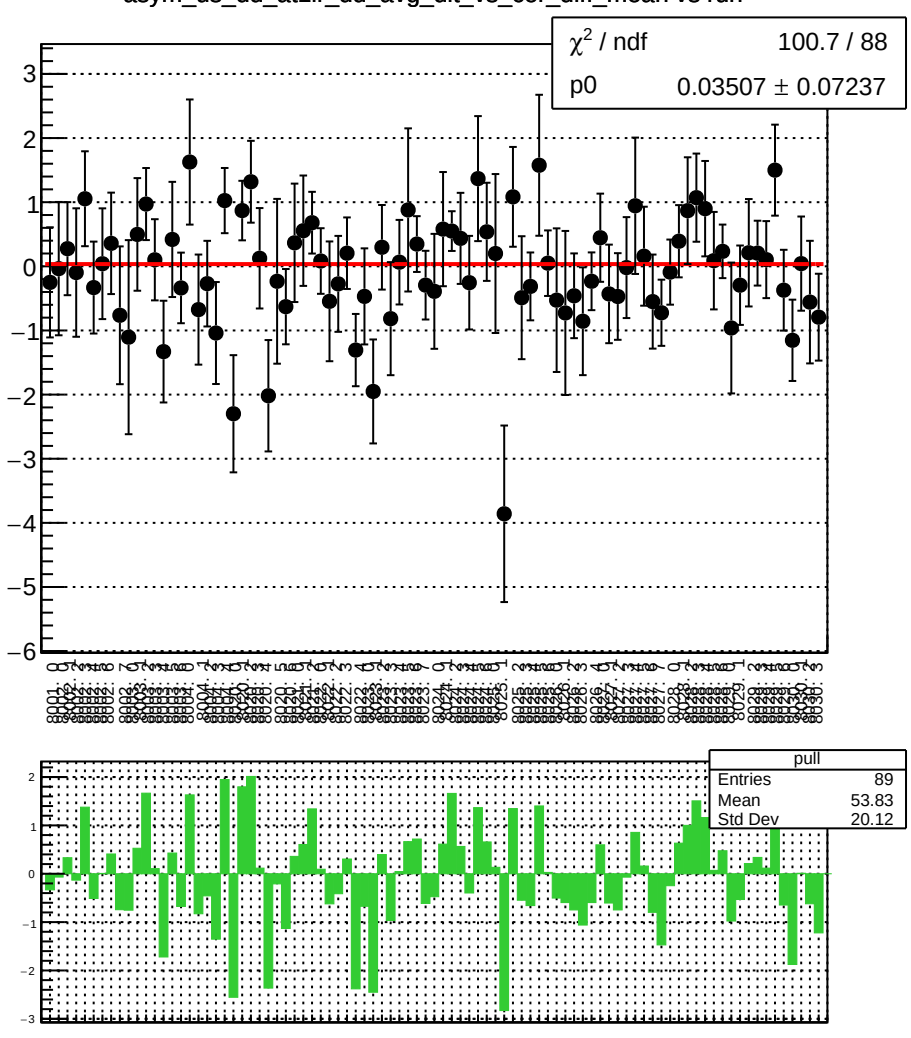

pull1D
Entries 89
Mean −0.01409
Std Dev 1.081
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

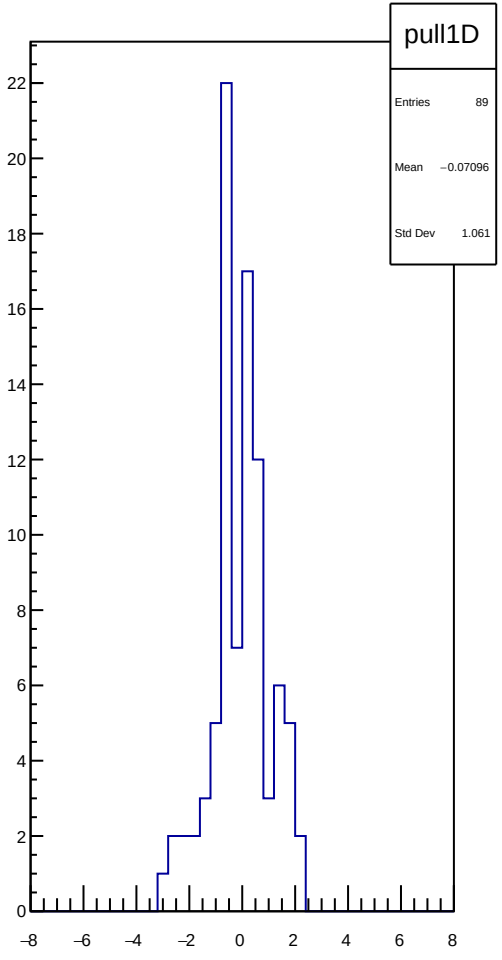

asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 707.6 / 88
p0 2586 ± 1.964
2750
2700
2650
2600
2550
2500

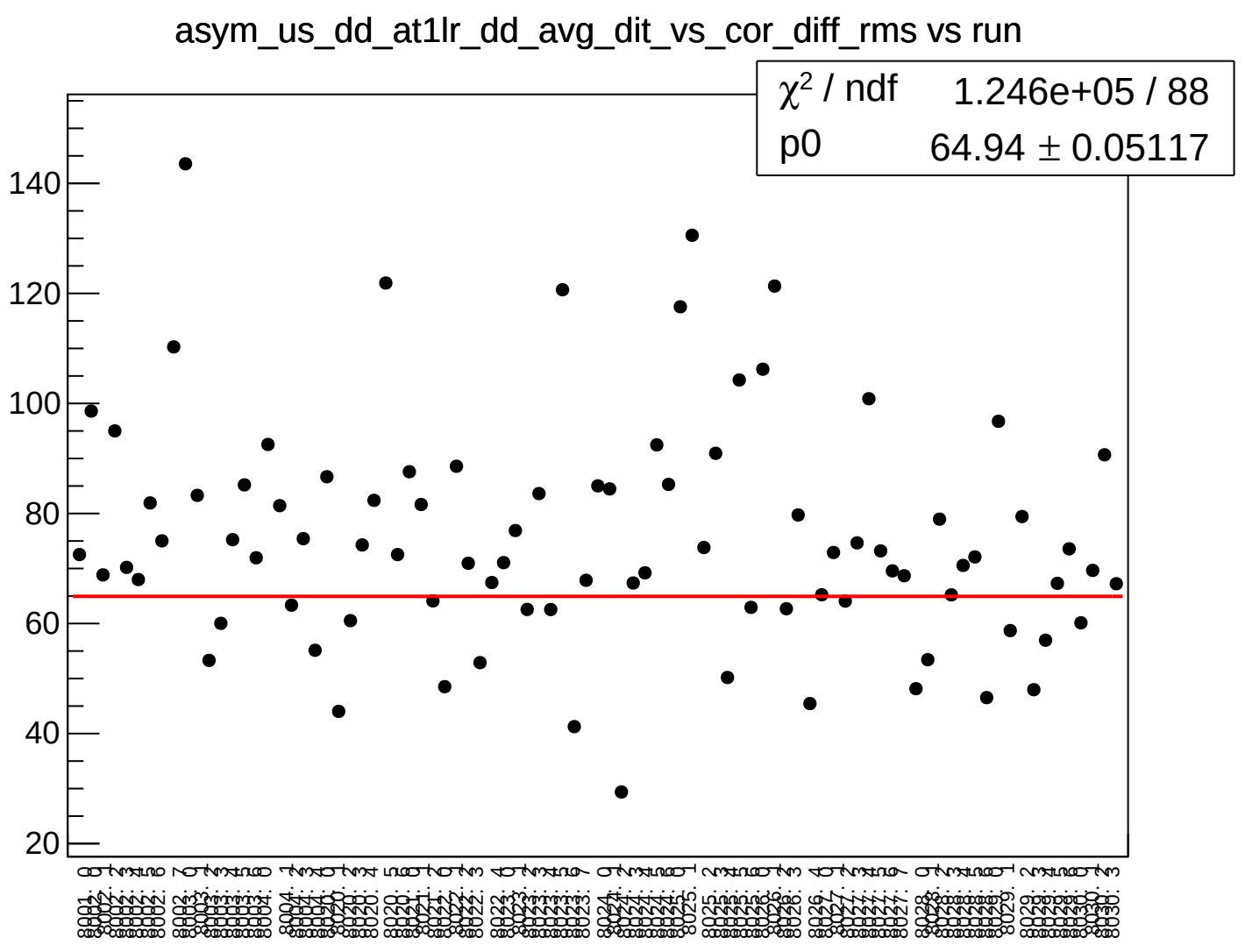

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 87.23 / 88
p0 −5.984e−14 ± 1.5e−13
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 89
Mean 83.28
Std Dev 20.69
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

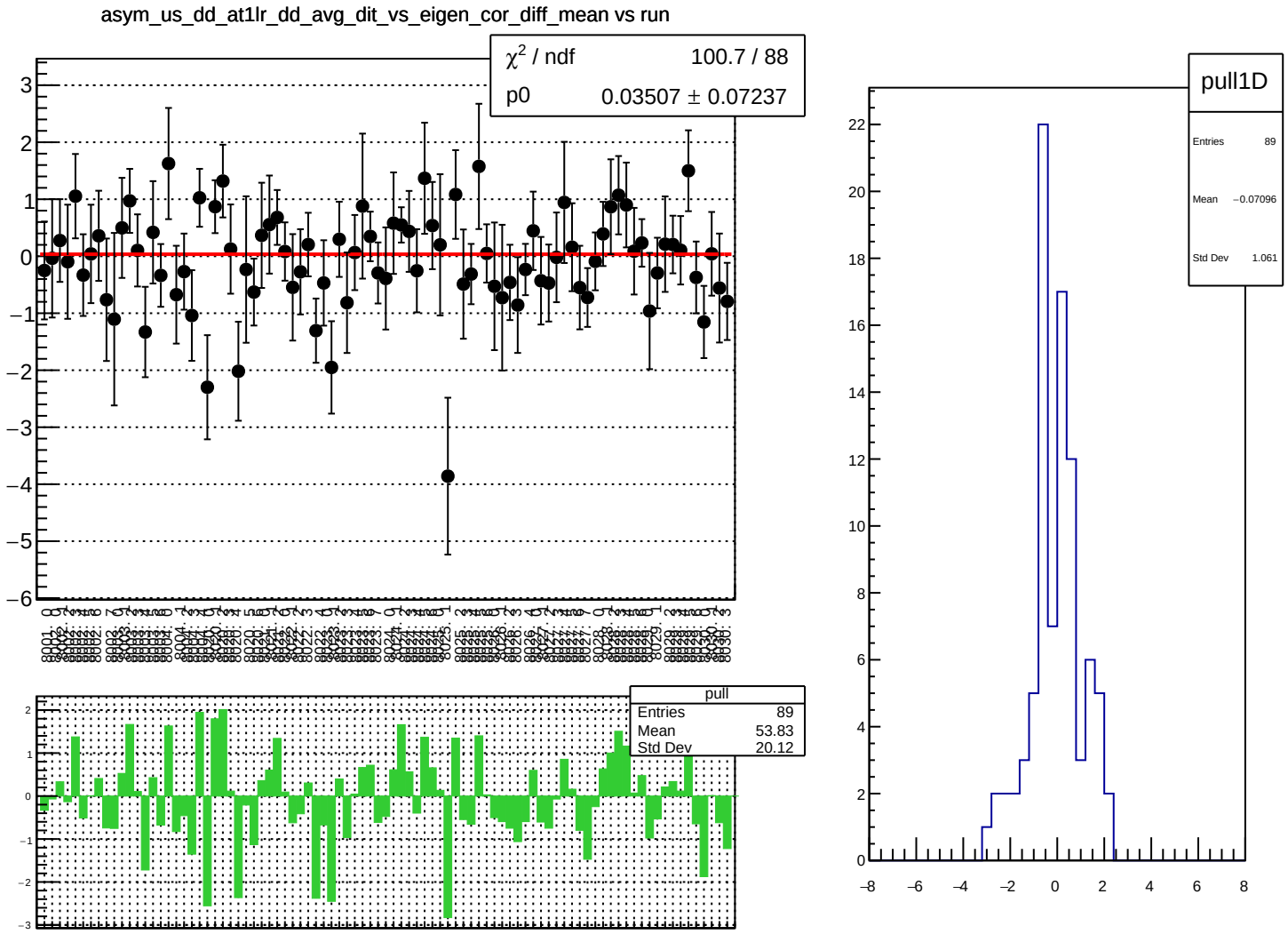

pull1D
Entries 89
Mean 0.06984
Std Dev 0.9875
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

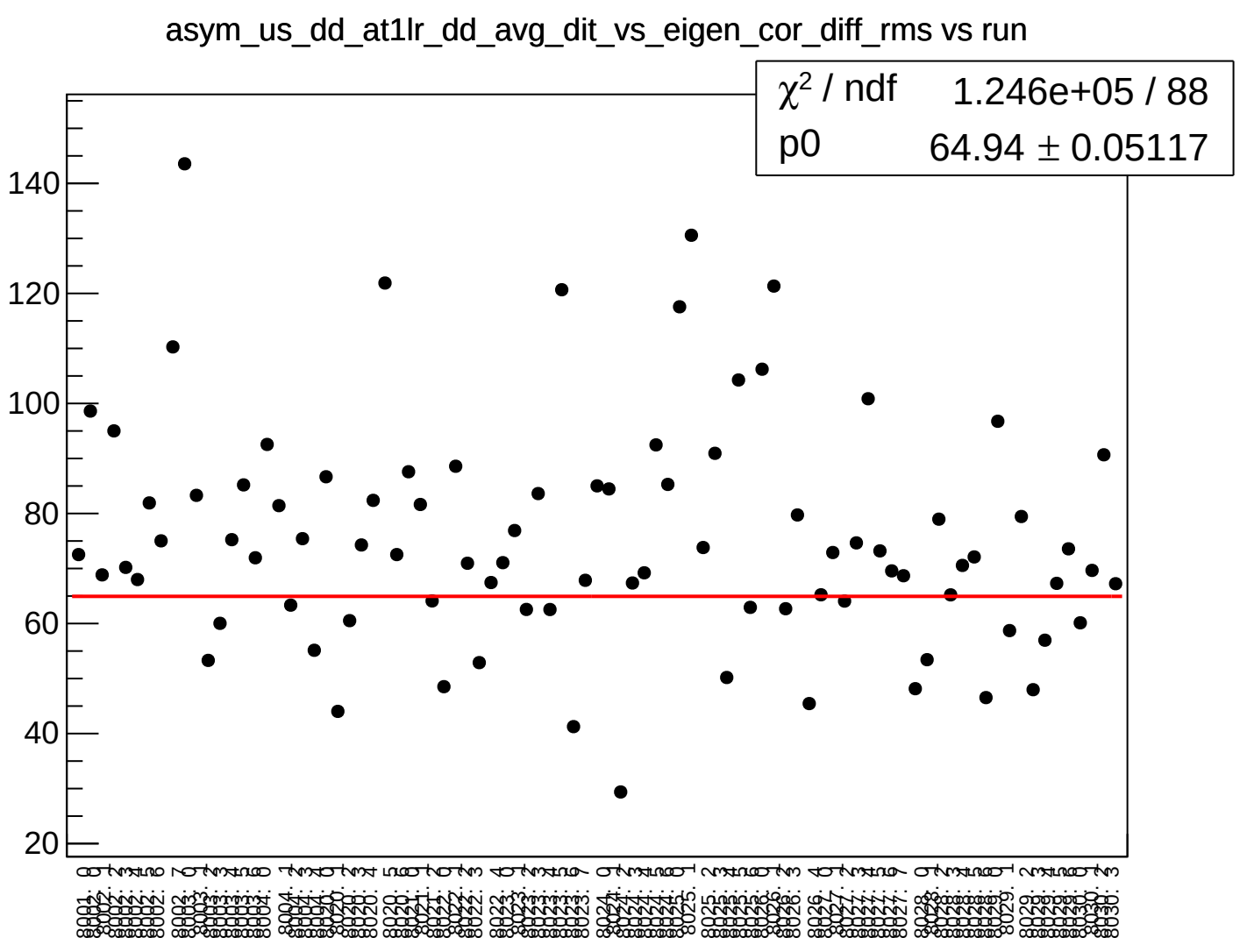

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.125e+06 / 88
p0 8.281e−11 ± 1.061e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

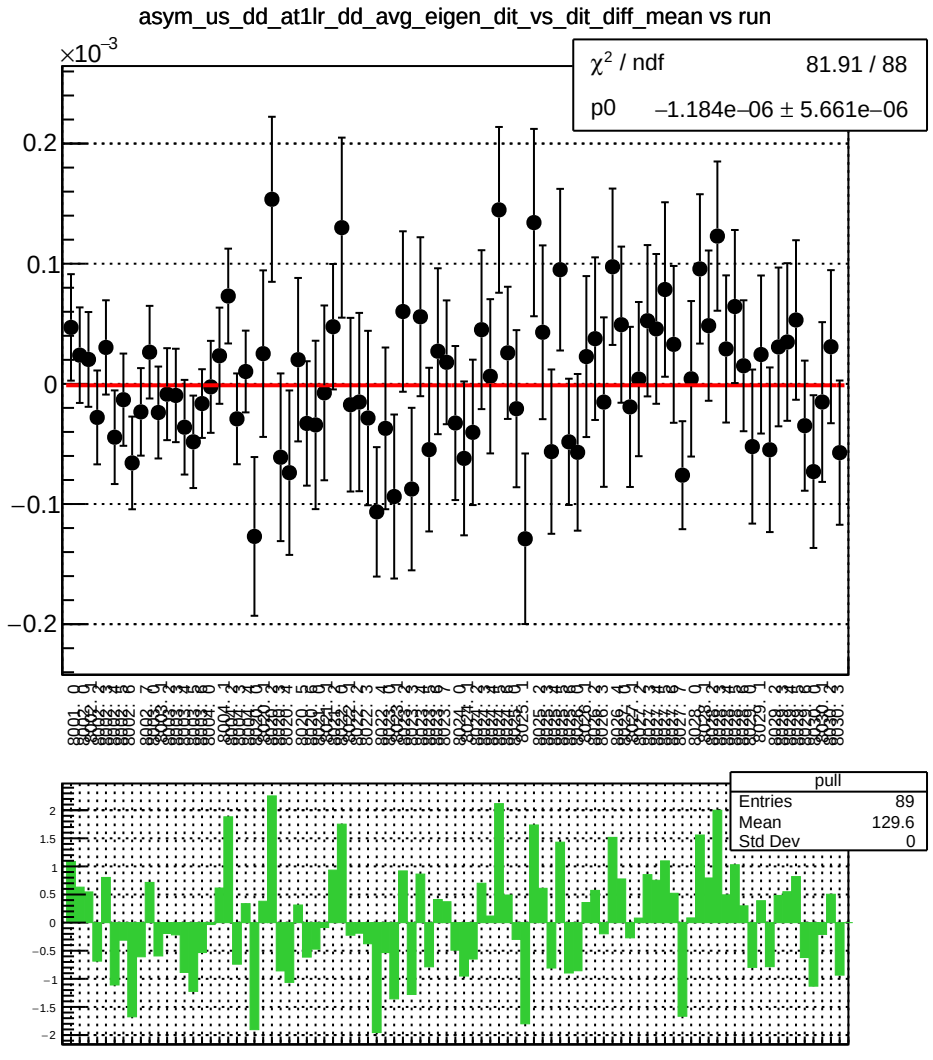

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 100.7 / 88
p0 0.03507 ± 0.07237
pull
Entries 89
Mean 53.83
Std Dev 20.12

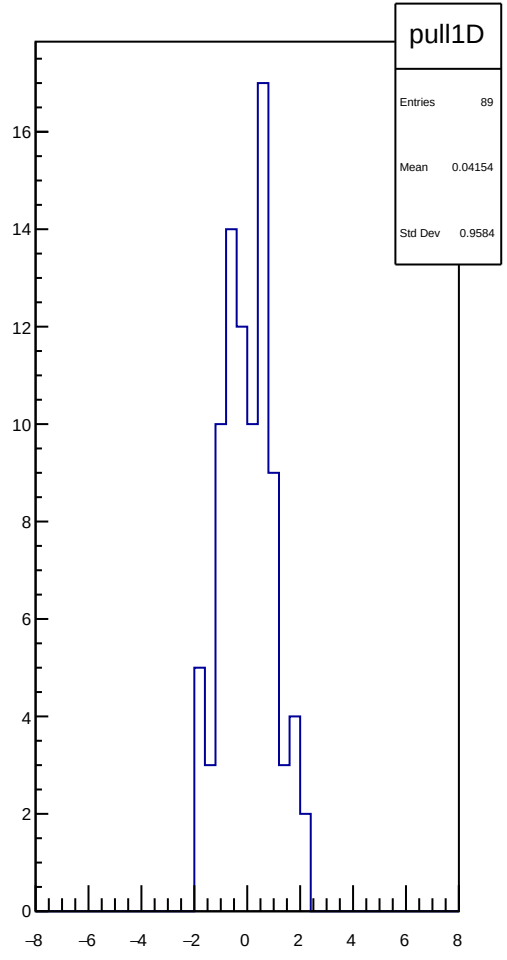

pull1D
Entries 89
Mean −0.07096
Std Dev 1.061

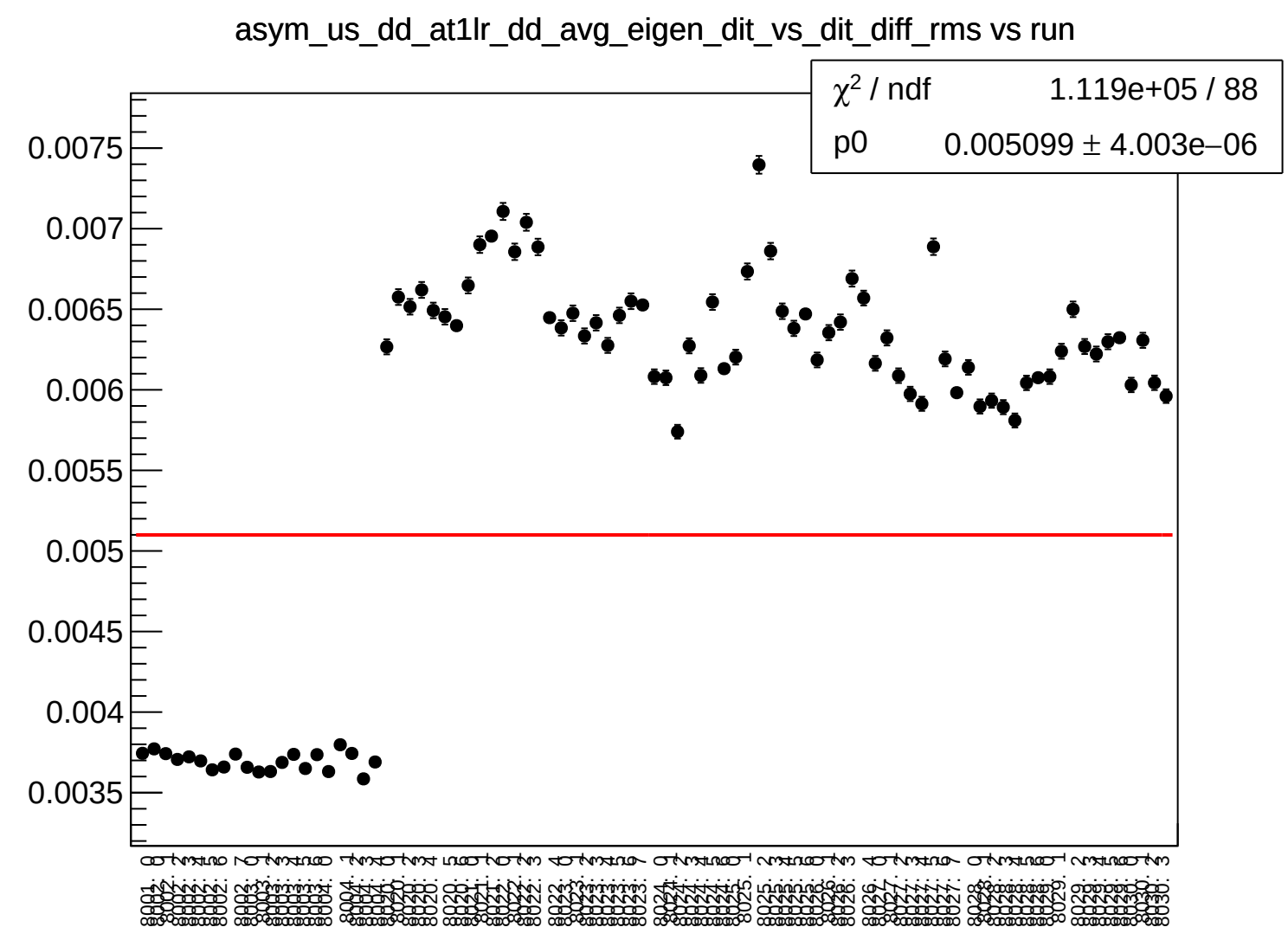

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.246e+05 / 88
p0 64.94 ± 0.05117
140
120
100
80
60
40
20

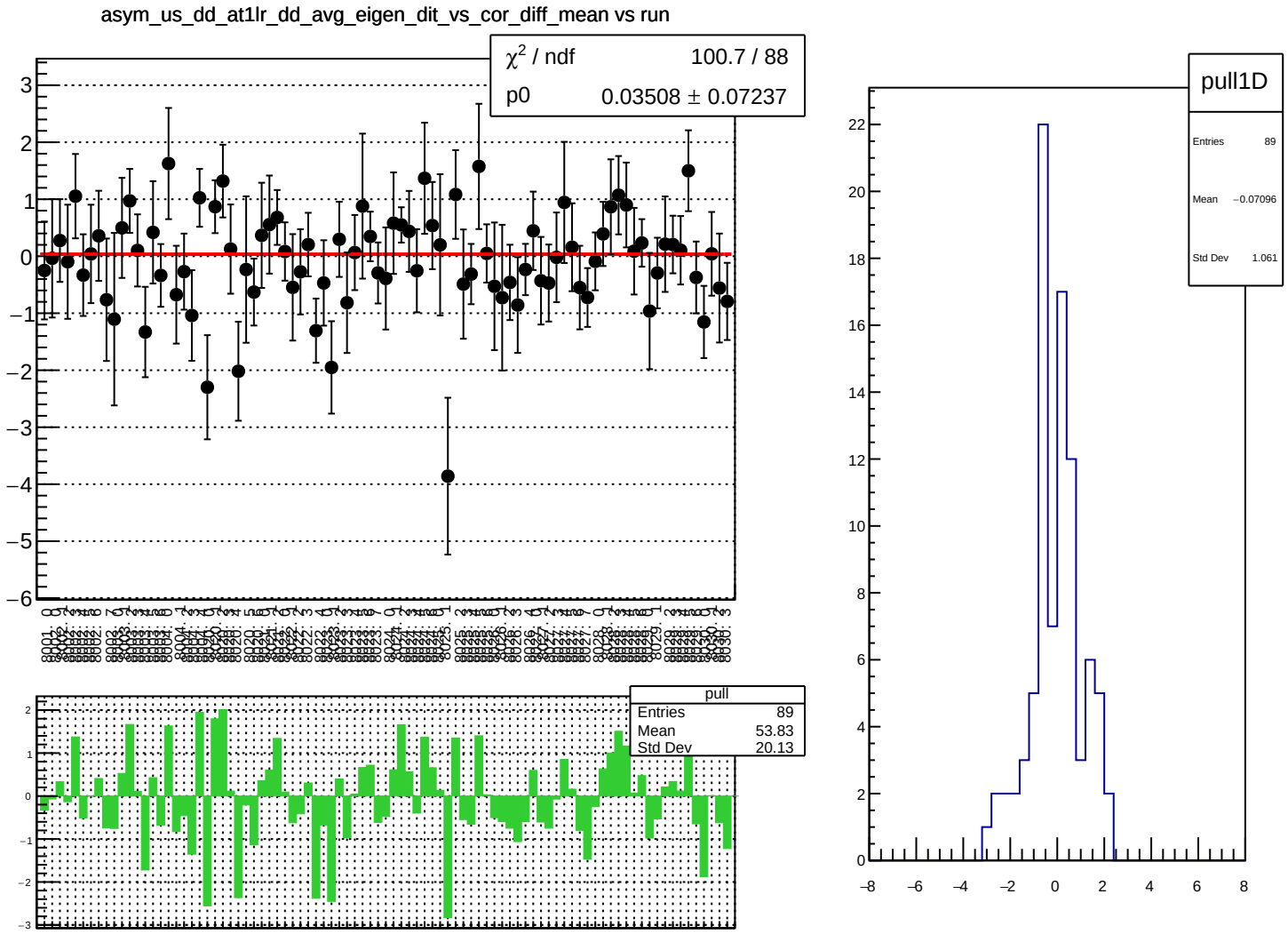

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.7 / 88
p0 0.03507 ± 0.07237
pull
Entries 89
Mean 53.83
Std Dev 20.12
pull1D
Entries 89
Mean −0.07096
Std Dev 1.061

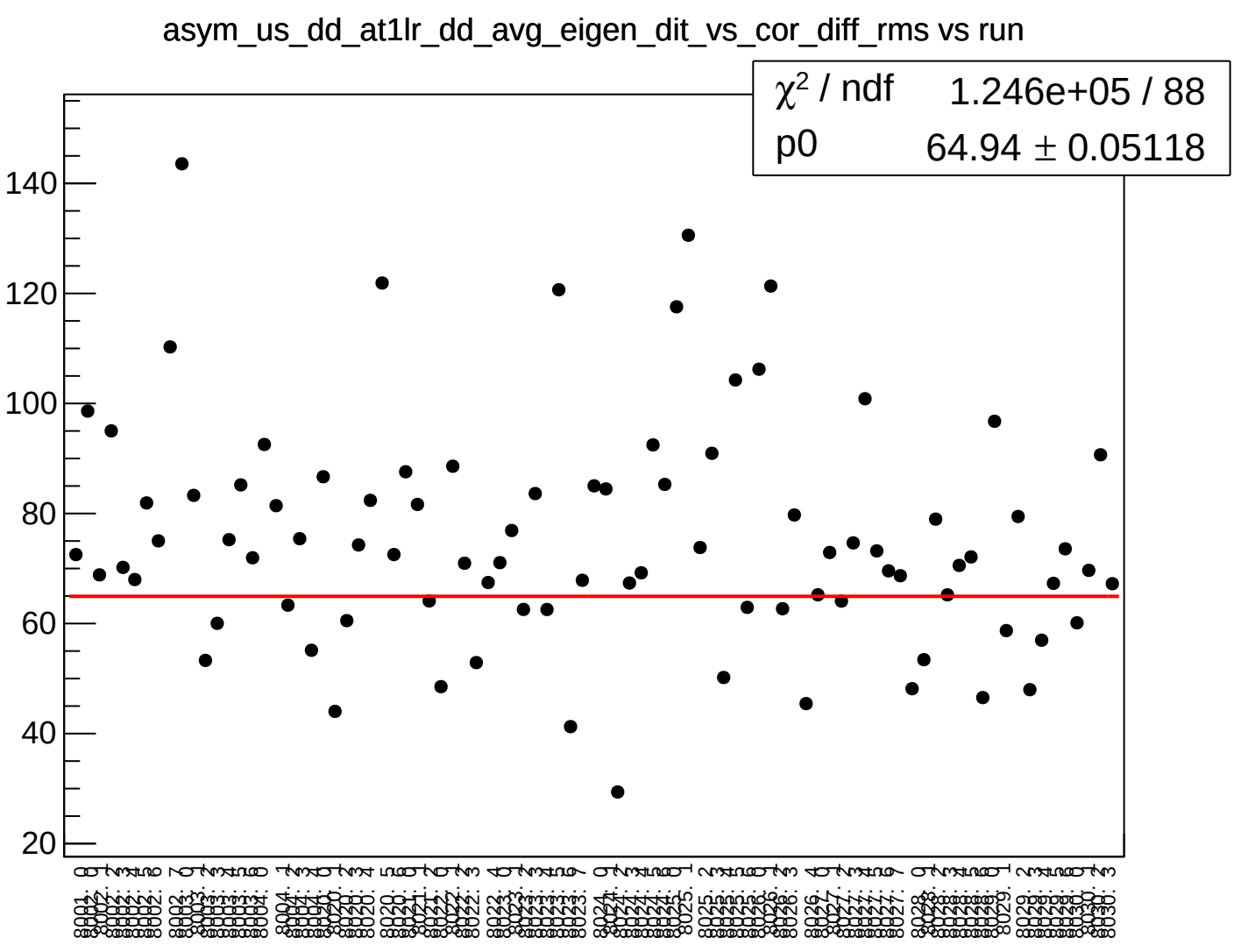

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.246e+05 / 88
p0 64.94 ± 0.05117
140
120
100
80
60
40
20

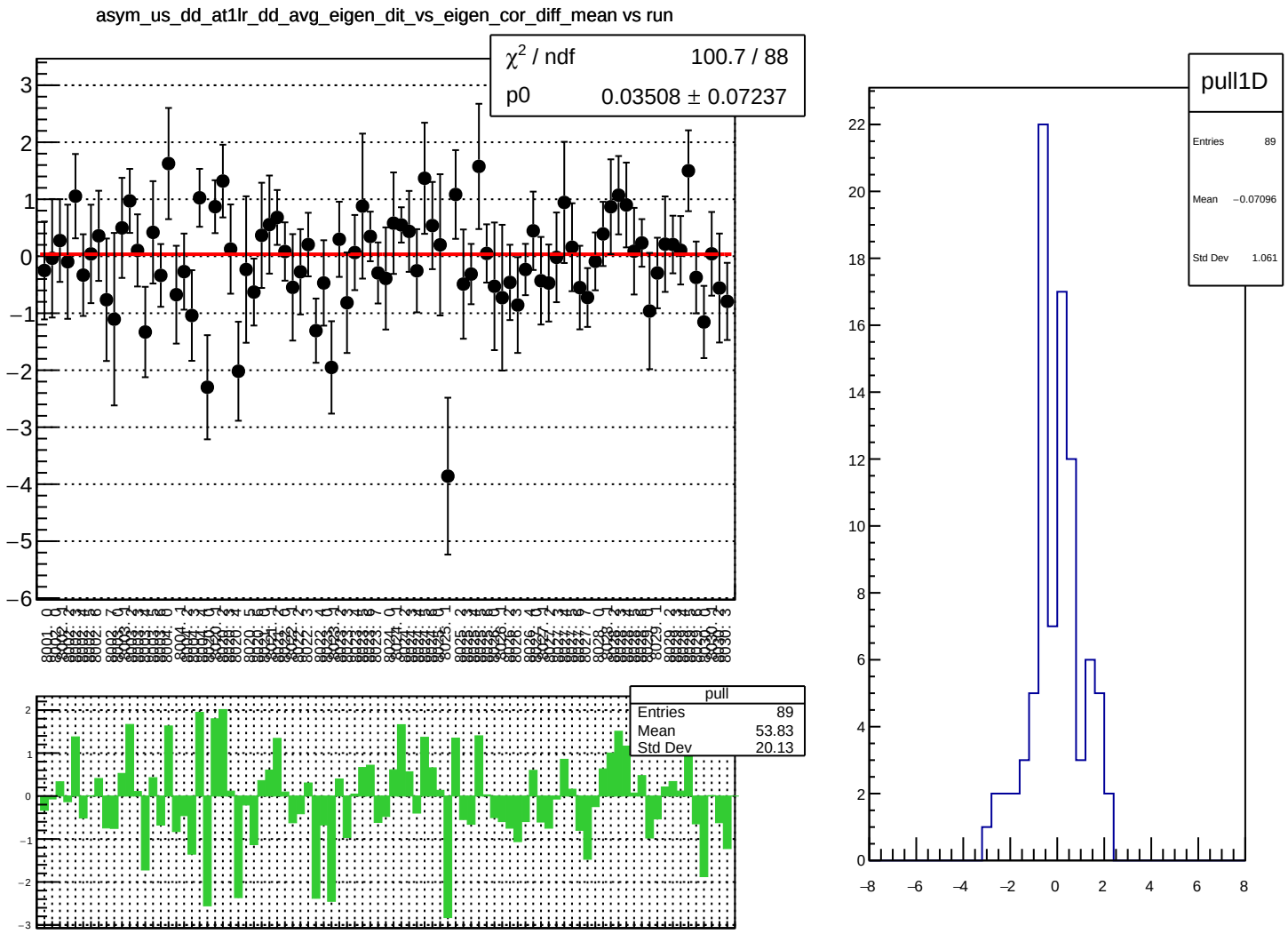

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 81.91 / 88
p0 −1.184e−06 ± 5.661e−06
pull
Entries 89
Mean 129.6
Std Dev 0

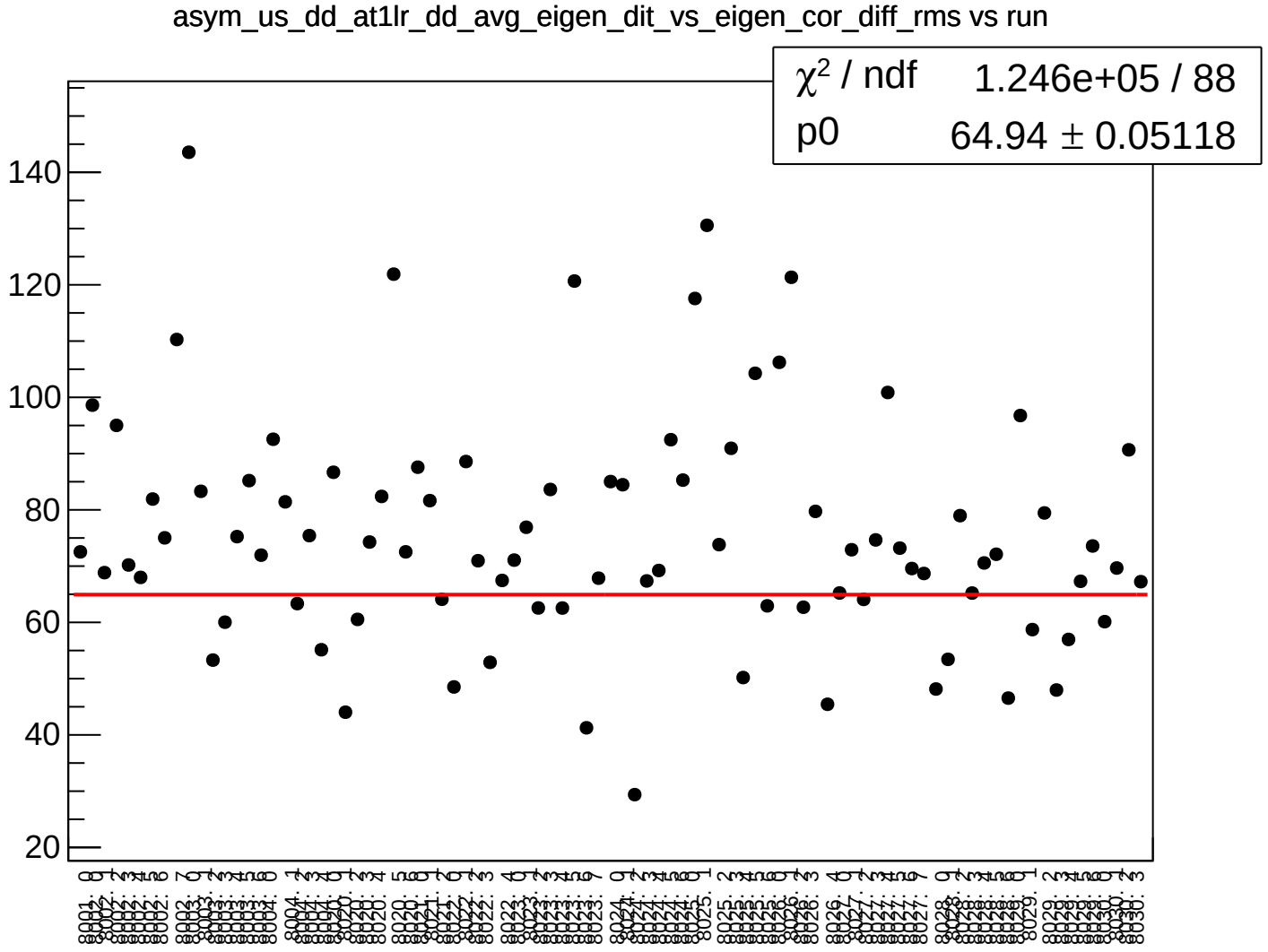

pull1D
Entries 89
Mean 0.04154
Std Dev 0.9584

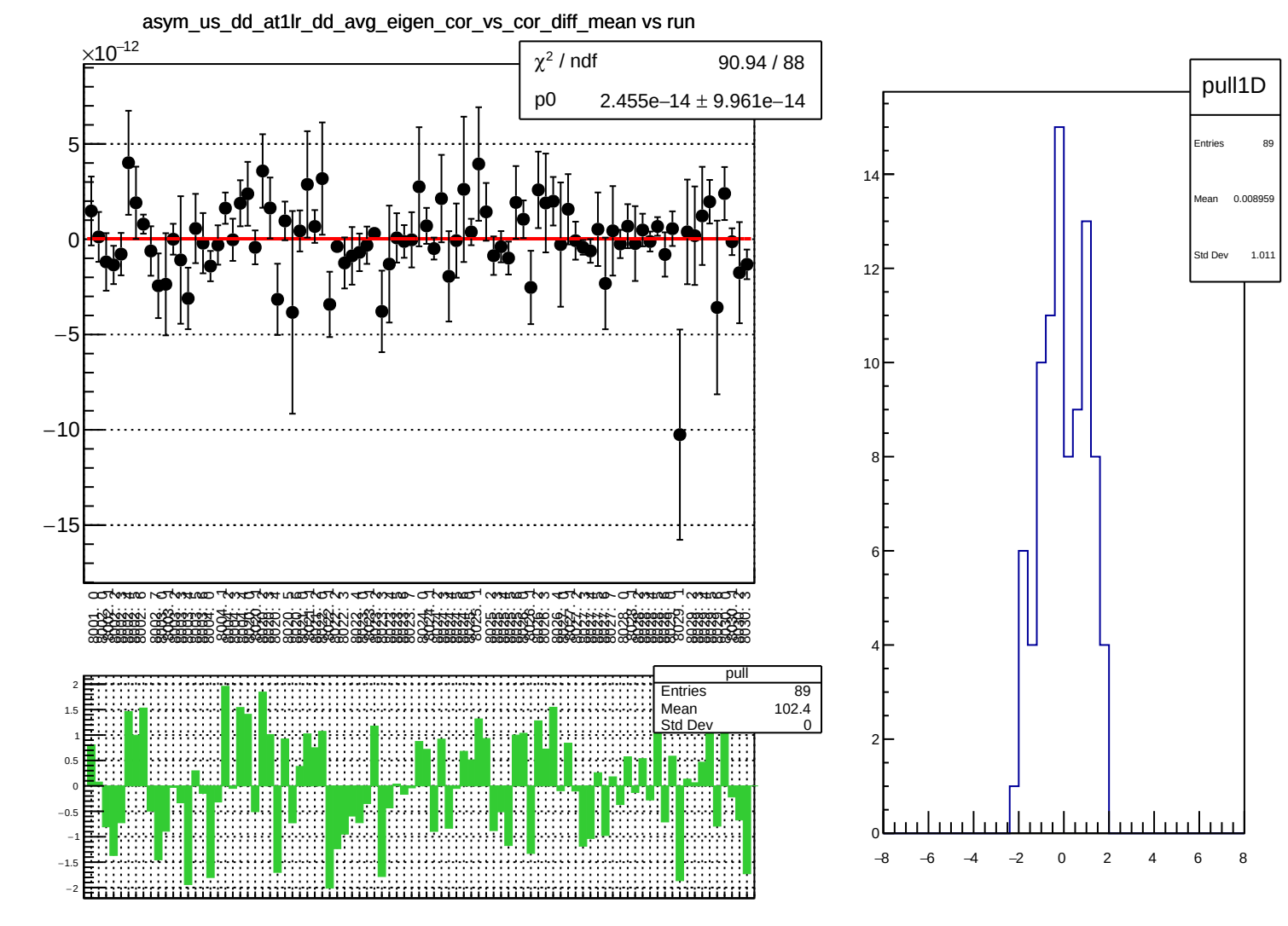

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.119e+05 / 88
p0 0.005099 ± 4.003e−06
0.0075
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035

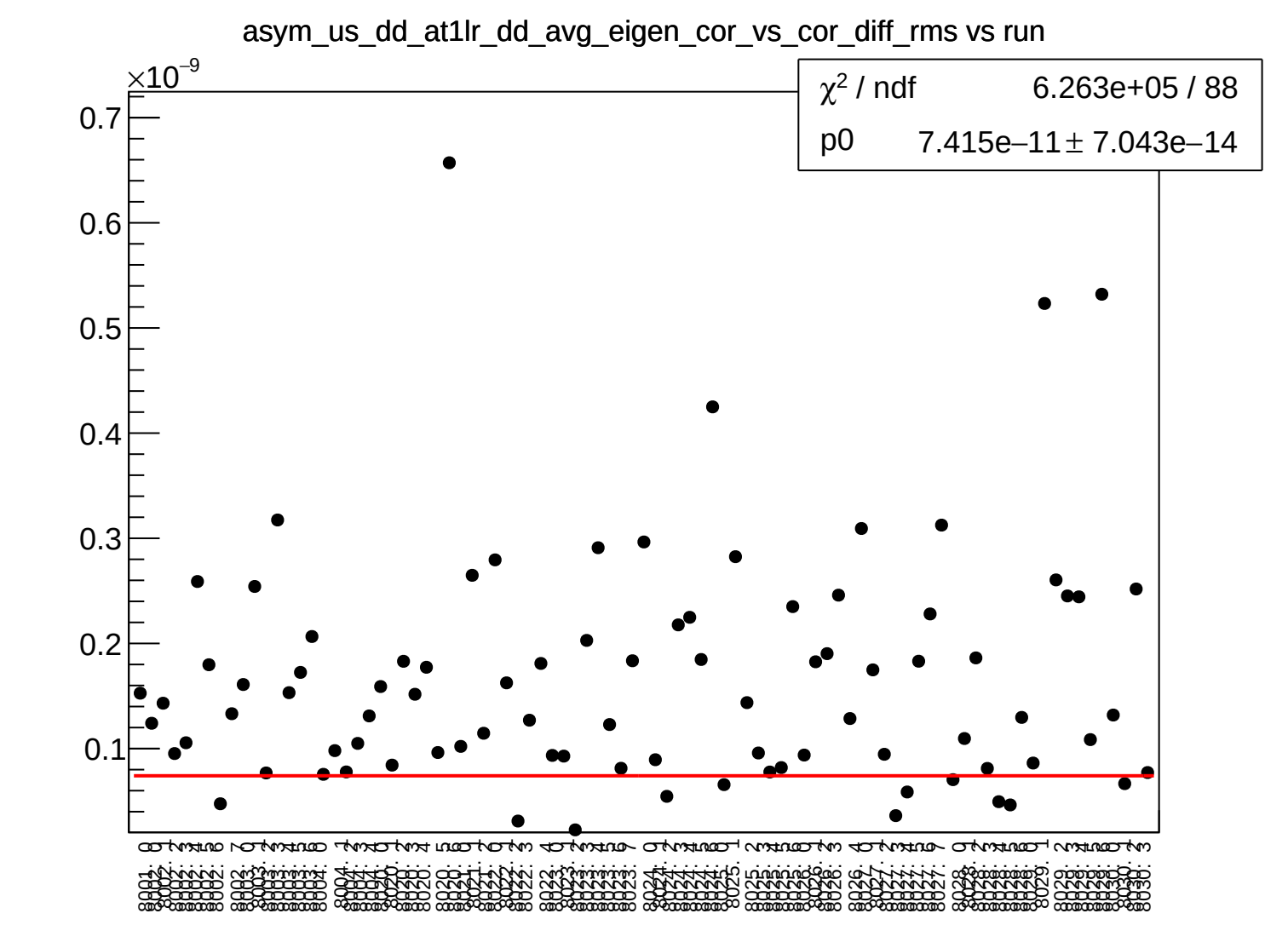

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 100.7 / 88
p0 0.03508 ± 0.07237
pull
Entries 89
Mean 53.83
Std Dev 20.13
pull1D
Entries 89
Mean −0.07096
Std Dev 1.061

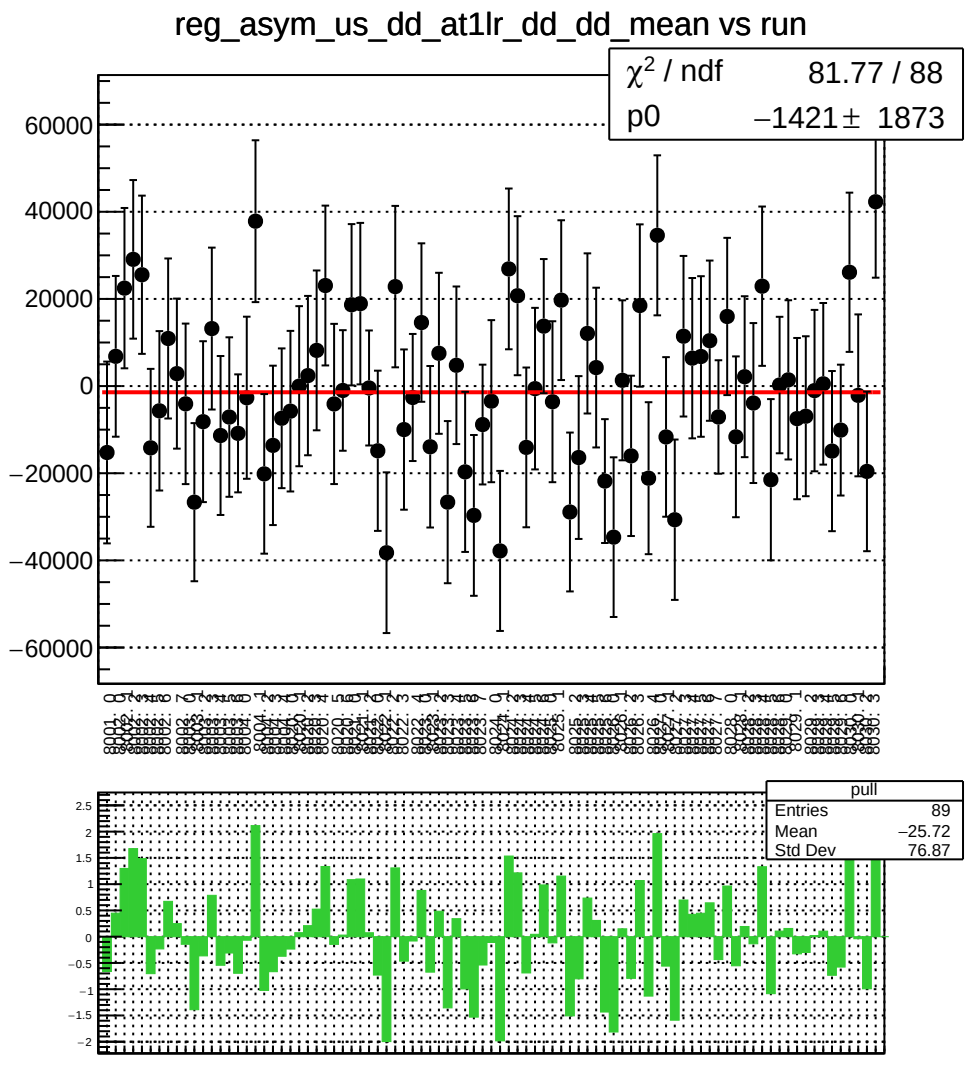

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.246e+05 / 88
p0 64.94 ± 0.05118
140
120
100
80
60
40
20

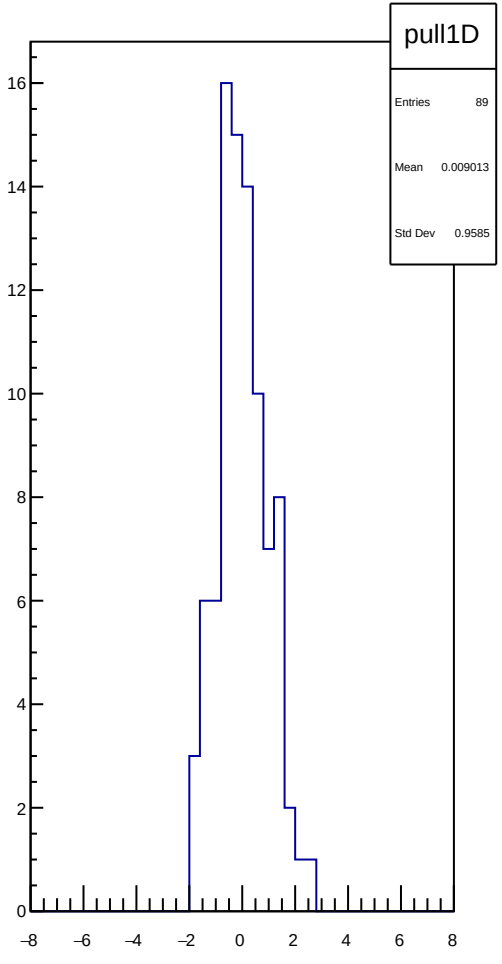

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.7 / 88
p0 0.03508 ± 0.07237
pull
Entries 89
Mean 53.83
Std Dev 20.13
pull1D
Entries 89
Mean −0.07096
Std Dev 1.061

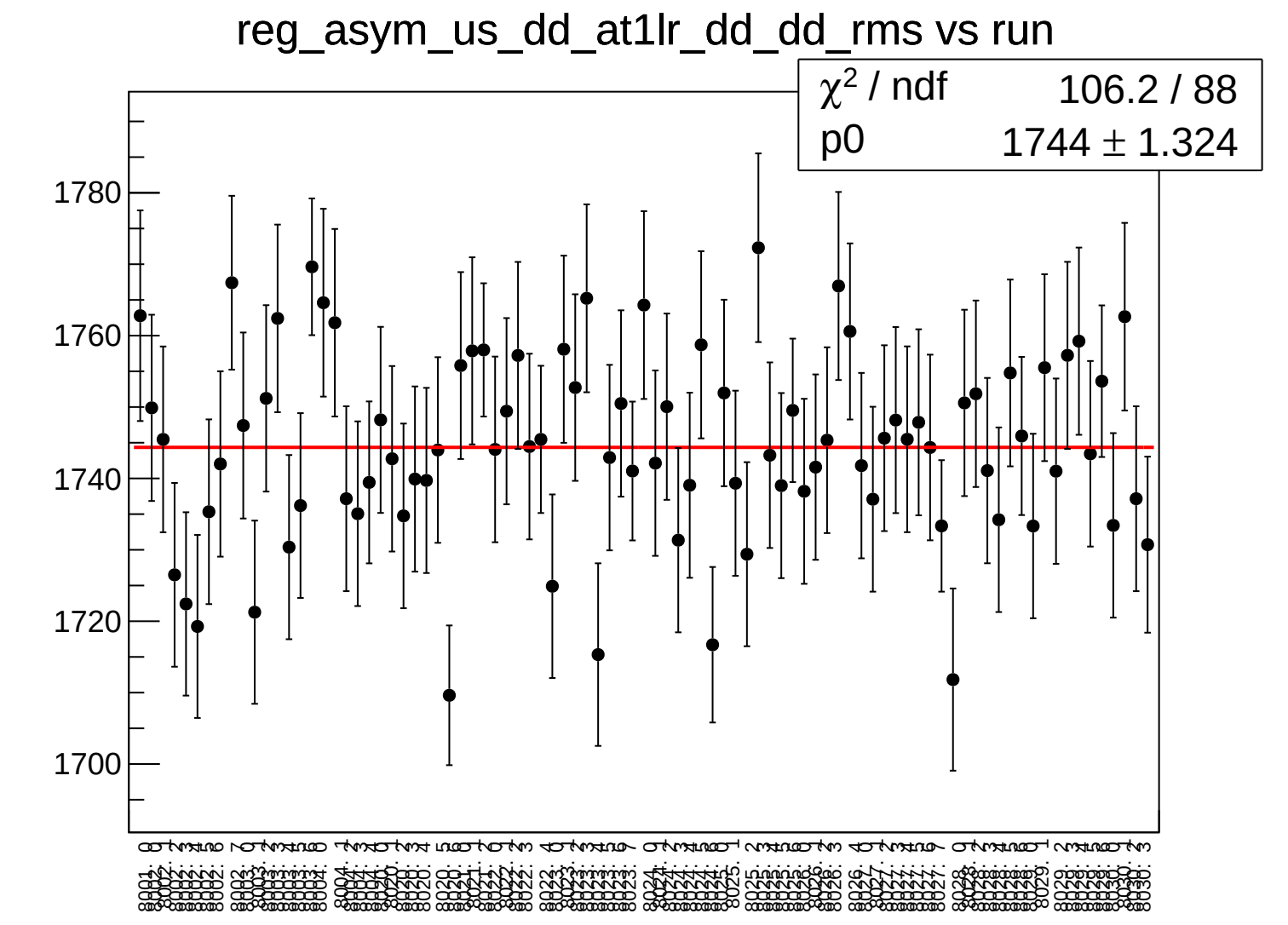

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.246e+05 / 88
p0 64.94 ± 0.05118
140
120
100
80
60
40
20

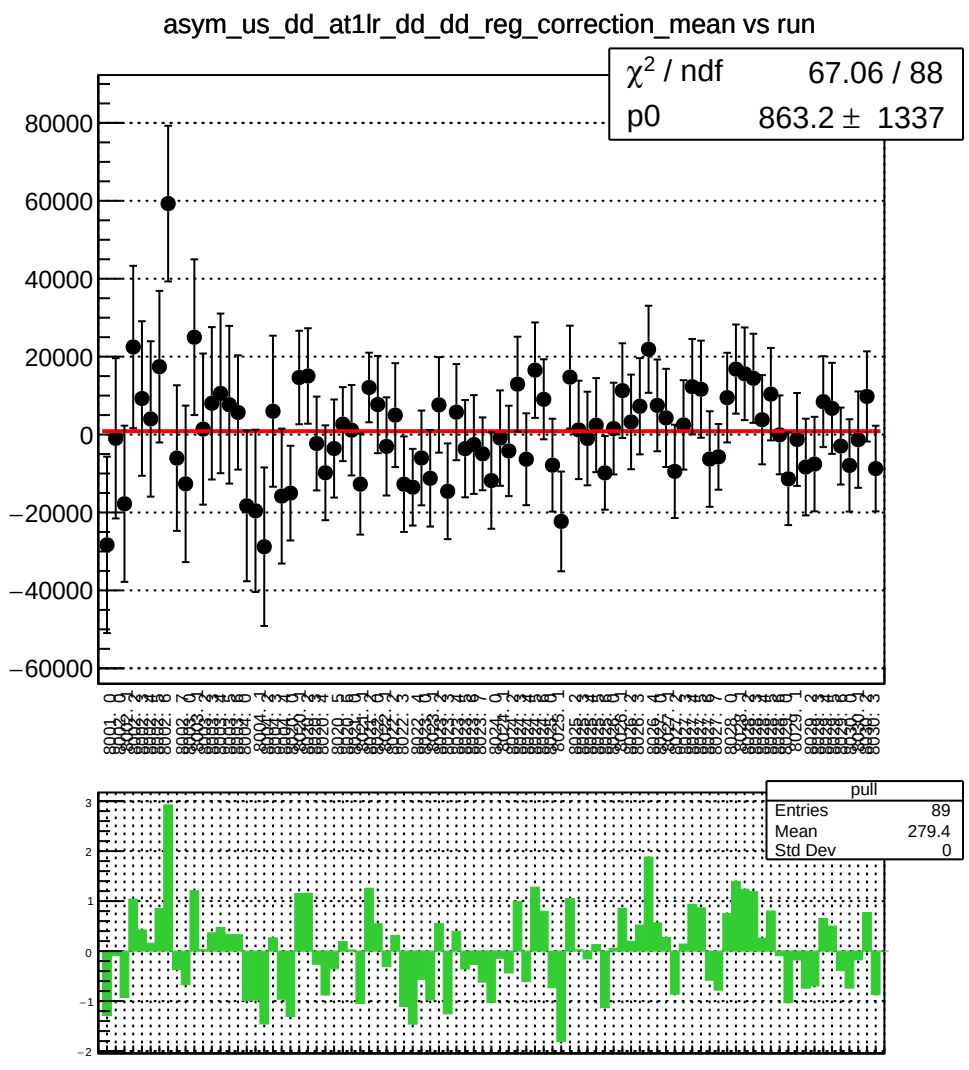

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.94 / 88
p0 2.455e−14 ± 9.961e−14
5
0
−5
−10
−15
pull
Entries 89
Mean 102.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean 0.008959
Std Dev 1.011
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

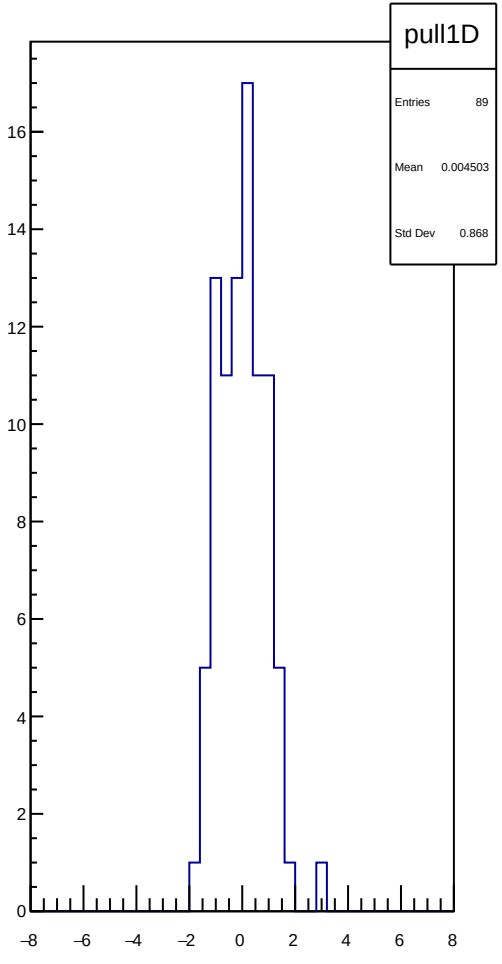

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.263e+05 / 88
p0 7.415e−11 ± 7.043e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

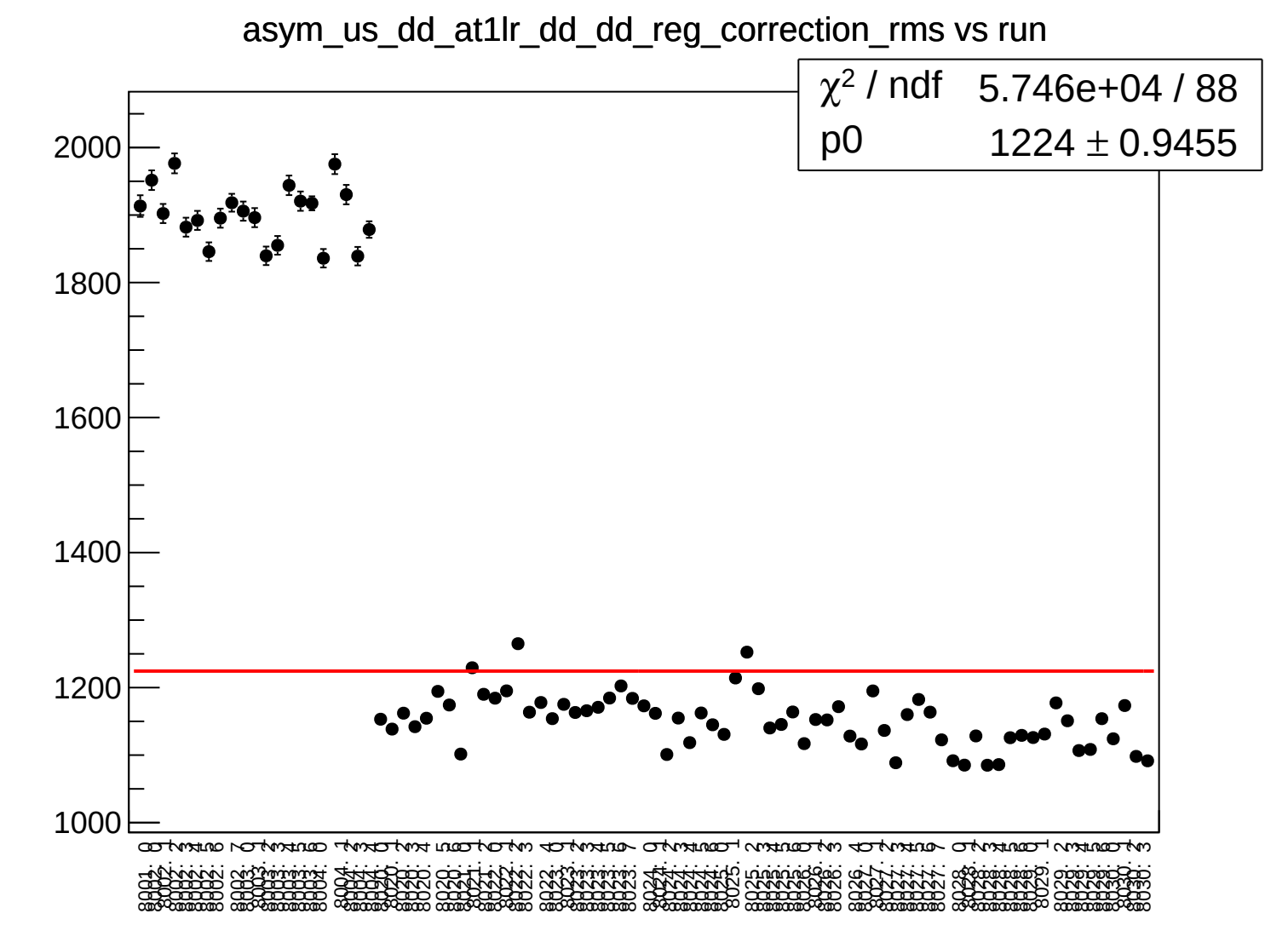

reg_asym_us_dd_at1lr_dd_dd_mean vs run
χ^2 / ndf 81.77 / 88
p0 −1421 ± 1873
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −25.72
Std Dev 76.87
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

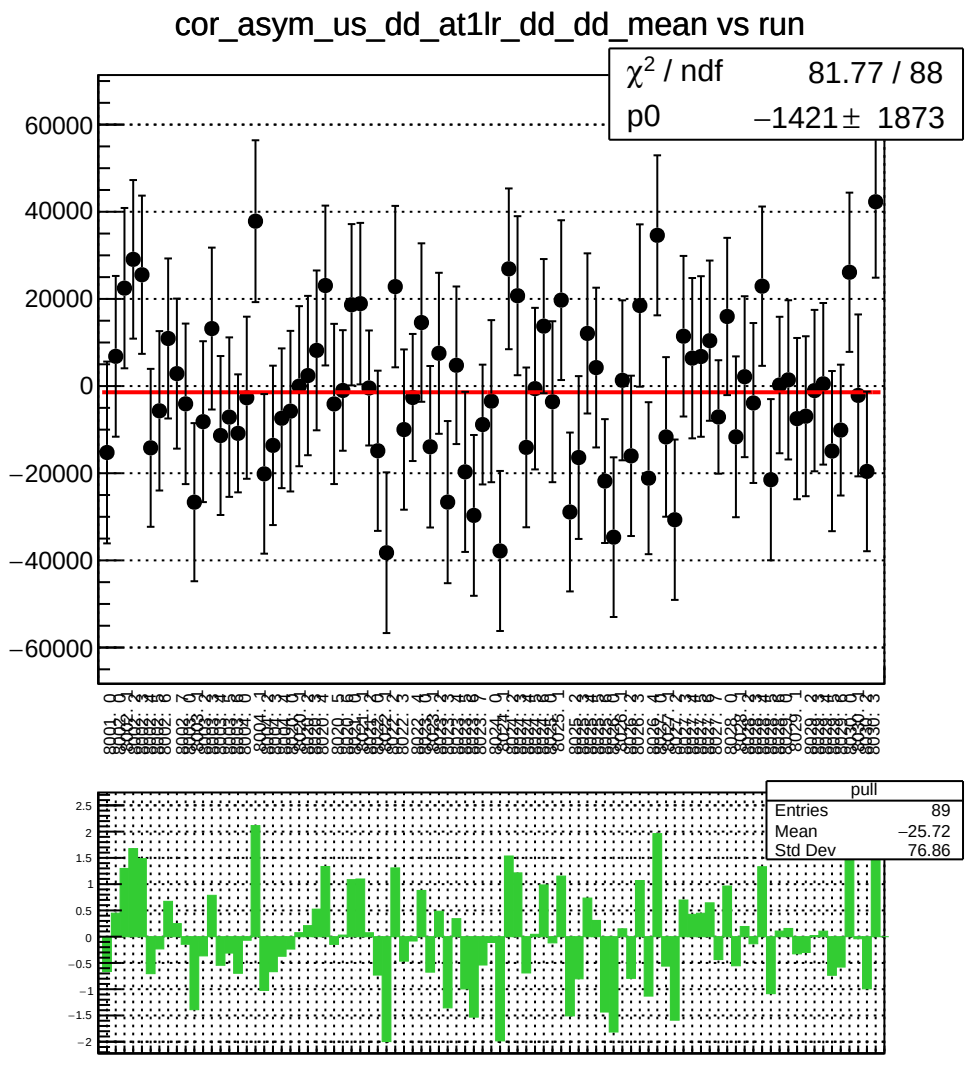

pull1D
Entries 89
Mean 0.009013
Std Dev 0.9585
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

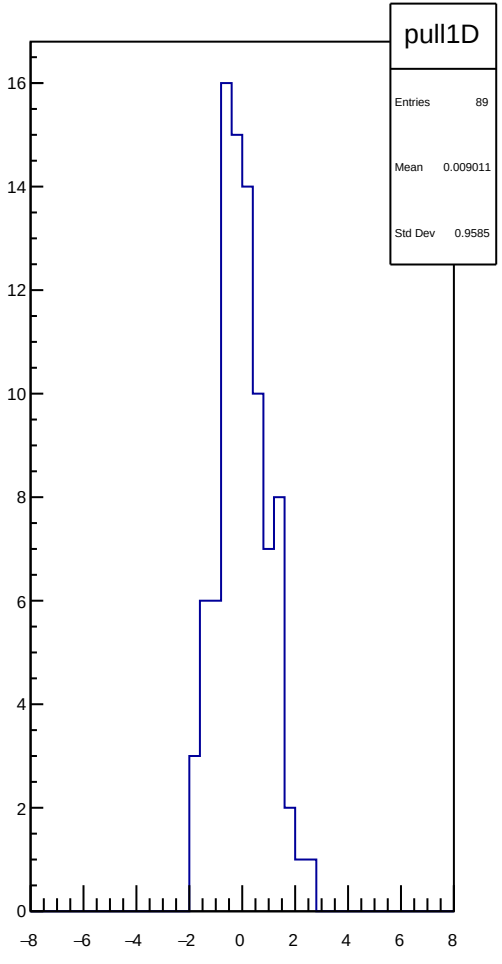

reg_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 106.2 / 88
p0 1744 ± 1.324
1780
1760
1740
1720
1700

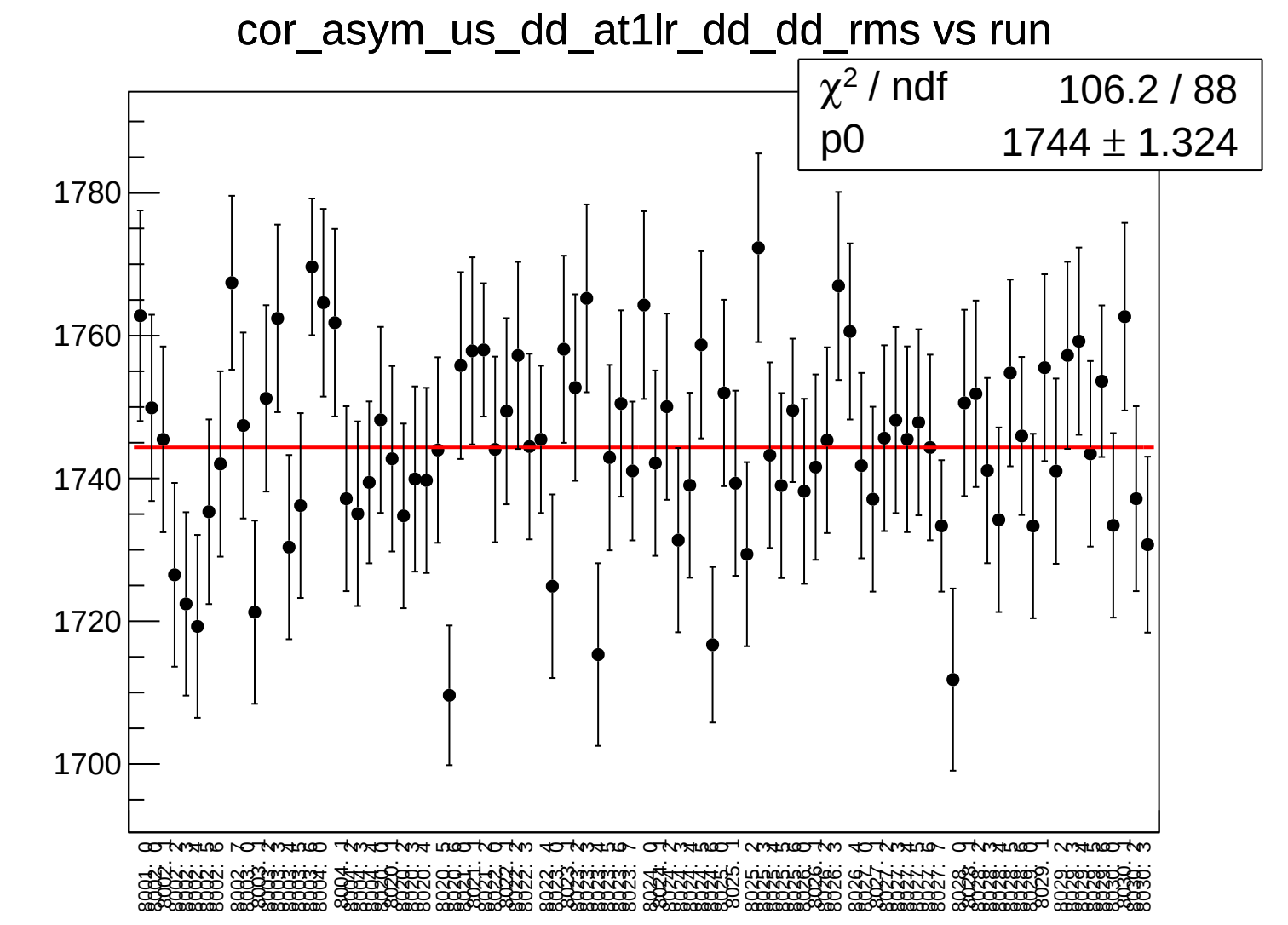

asym_us_dd_at1lr_dd_dd_reg_correction_mean vs run
χ² / ndf 67.06 / 88
p0 863.2 ± 1337
pull
Entries 89
Mean 279.4
Std Dev 0

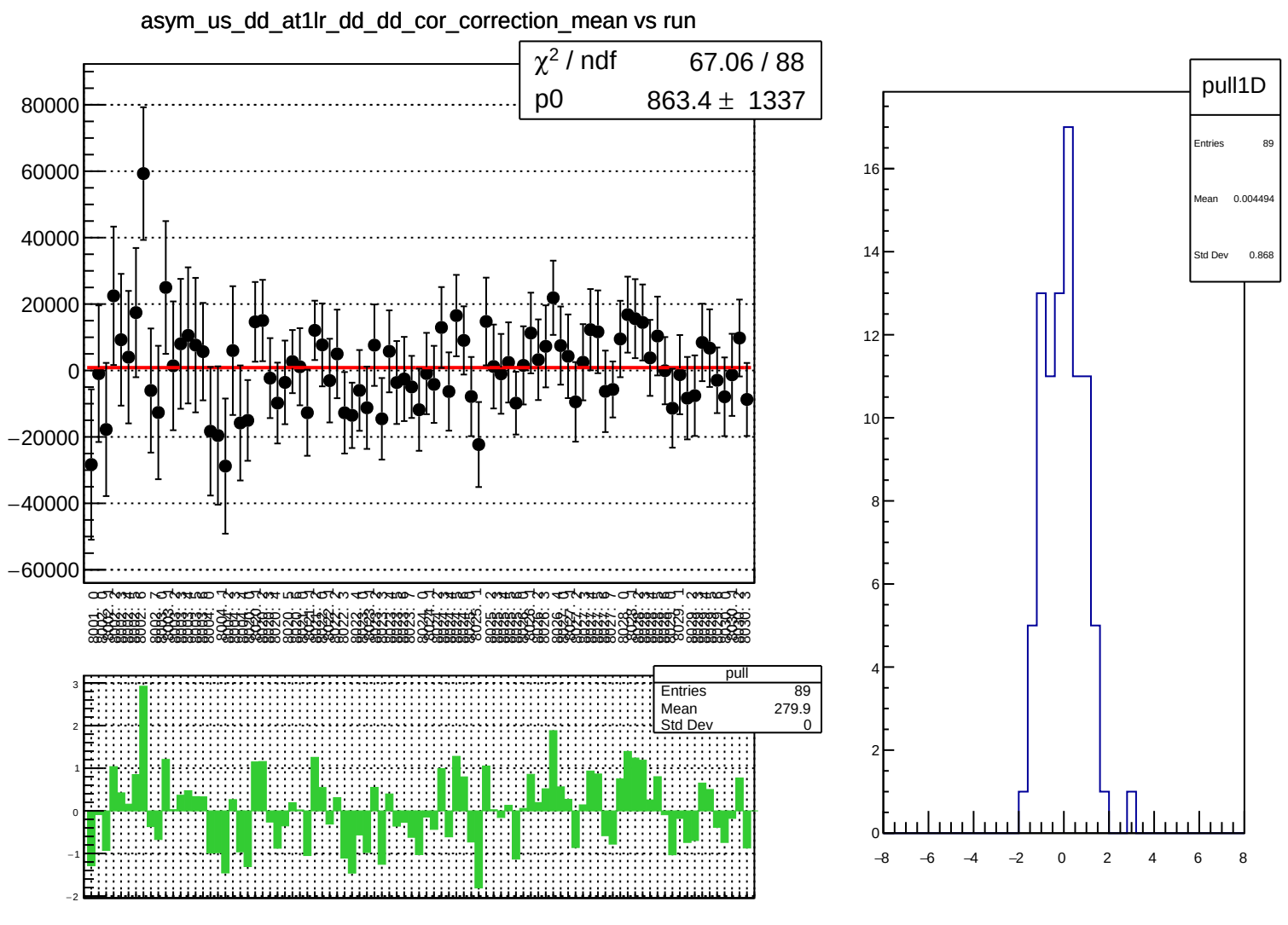

pull1D
Entries 89
Mean 0.004503
Std Dev 0.868

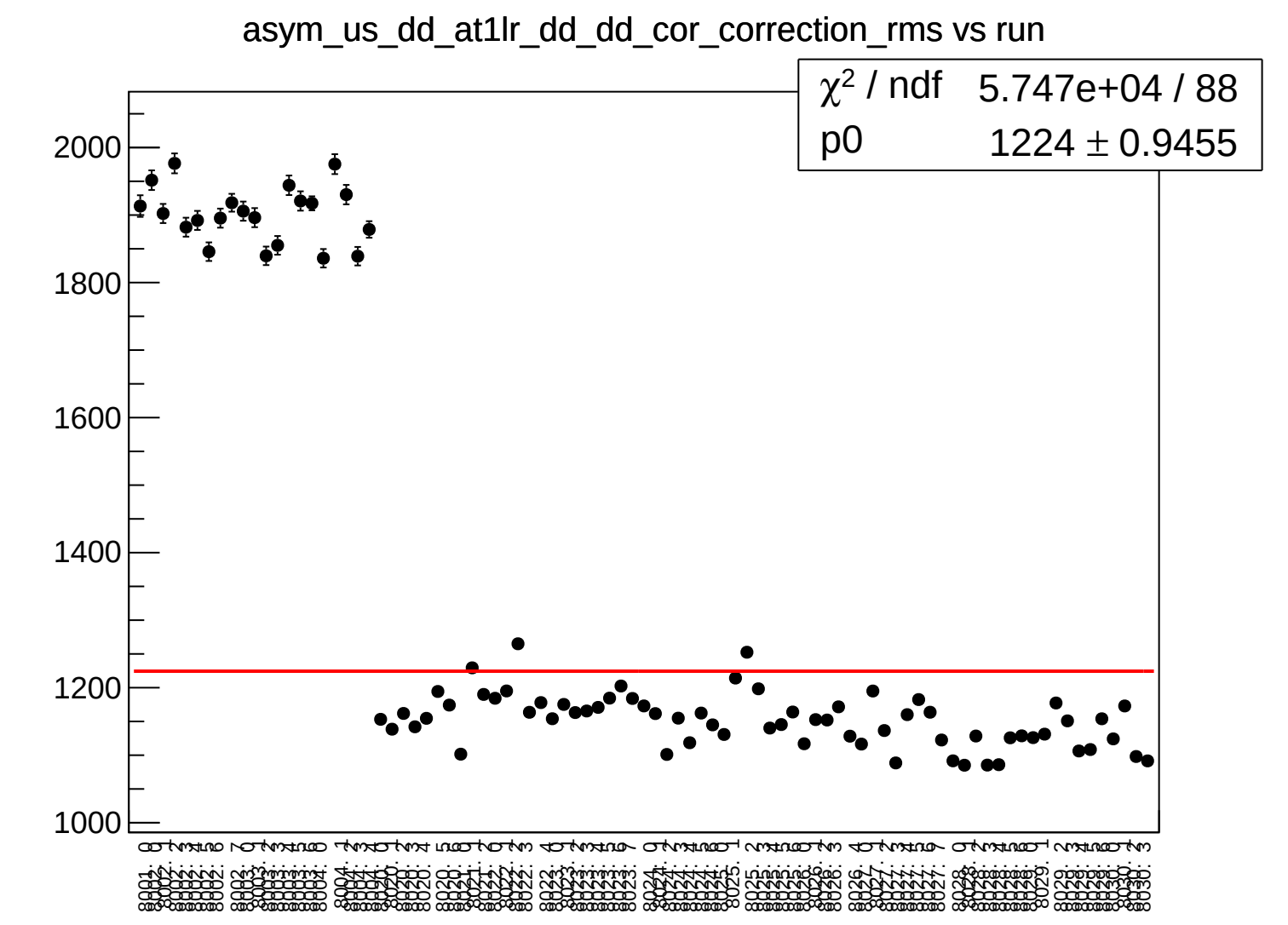

asym_us_dd_at1lr_dd_dd_reg_correction_rms vs run
χ² / ndf 5.746e+04 / 88
p0 1224 ± 0.9455
2000
1800
1600
1400
1200
1000

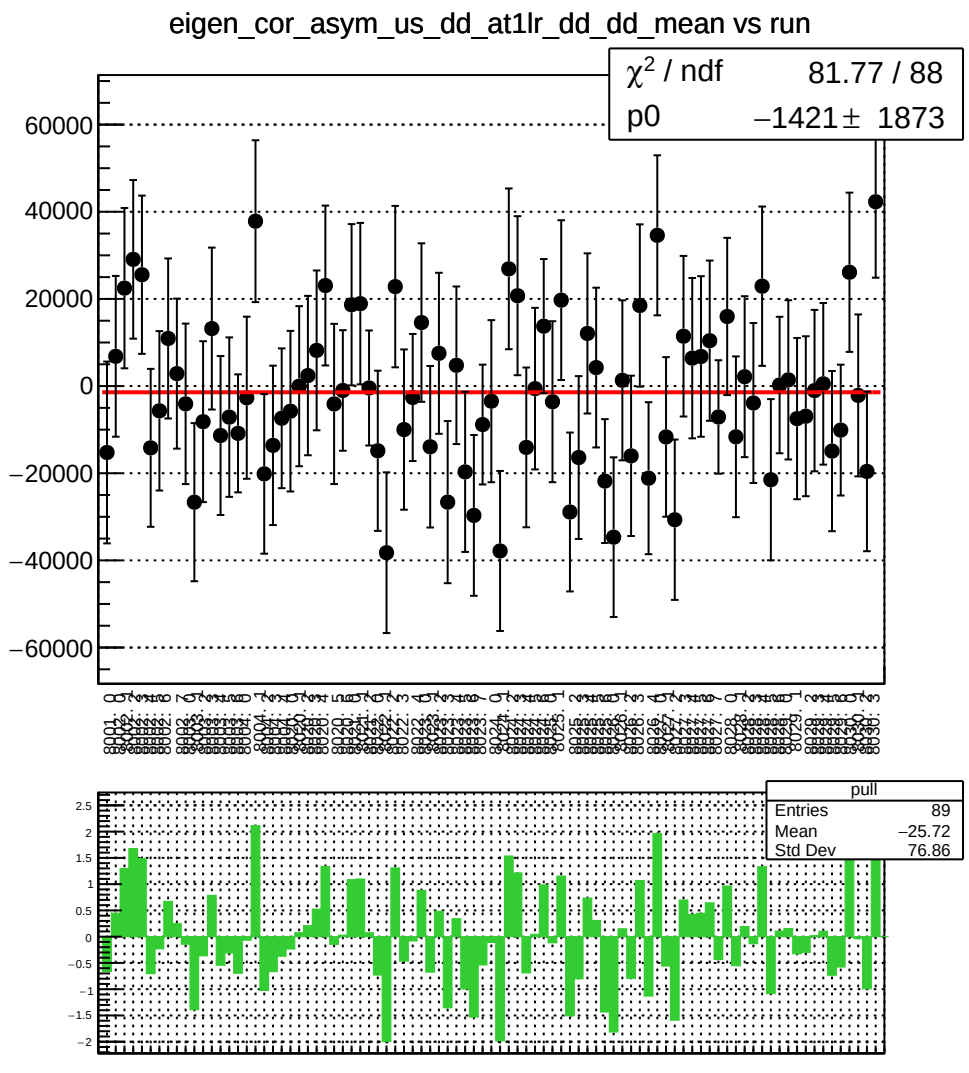

cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ^2 / ndf 81.77 / 88
p0 −1421 ± 1873
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −25.72
Std Dev 76.86
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

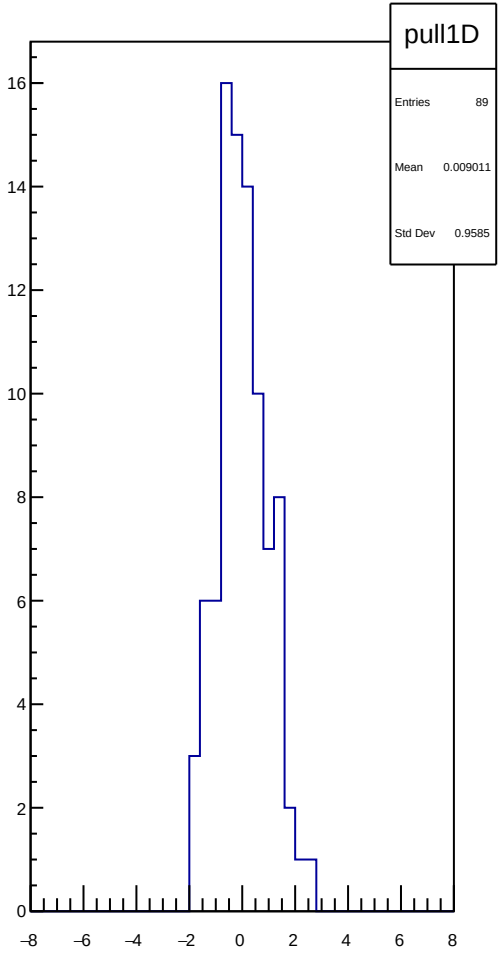

pull1D
Entries 89
Mean 0.009011
Std Dev 0.9585
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

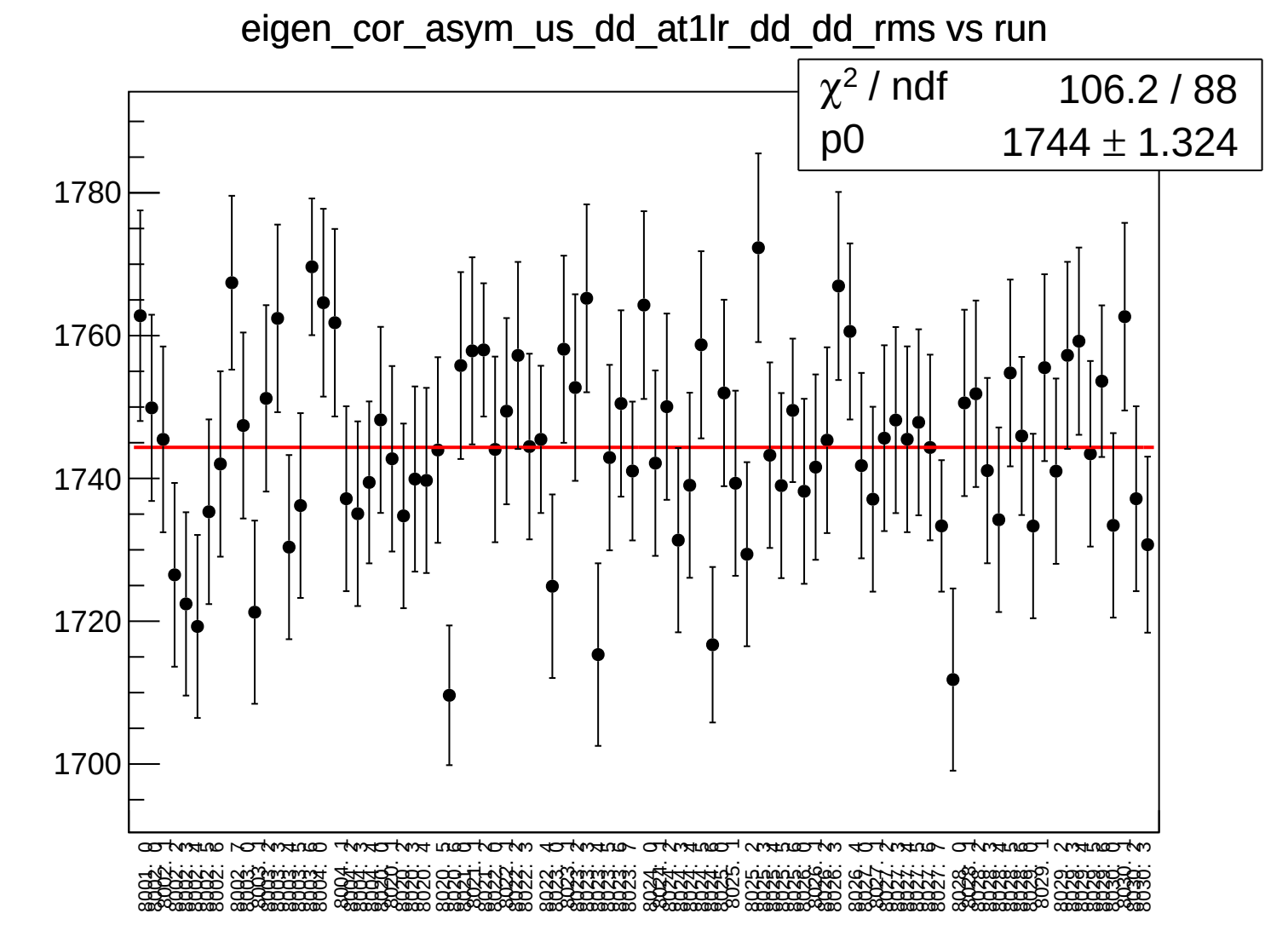

cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 106.2 / 88
p0 1744 ± 1.324
1780
1760
1740
1720
1700

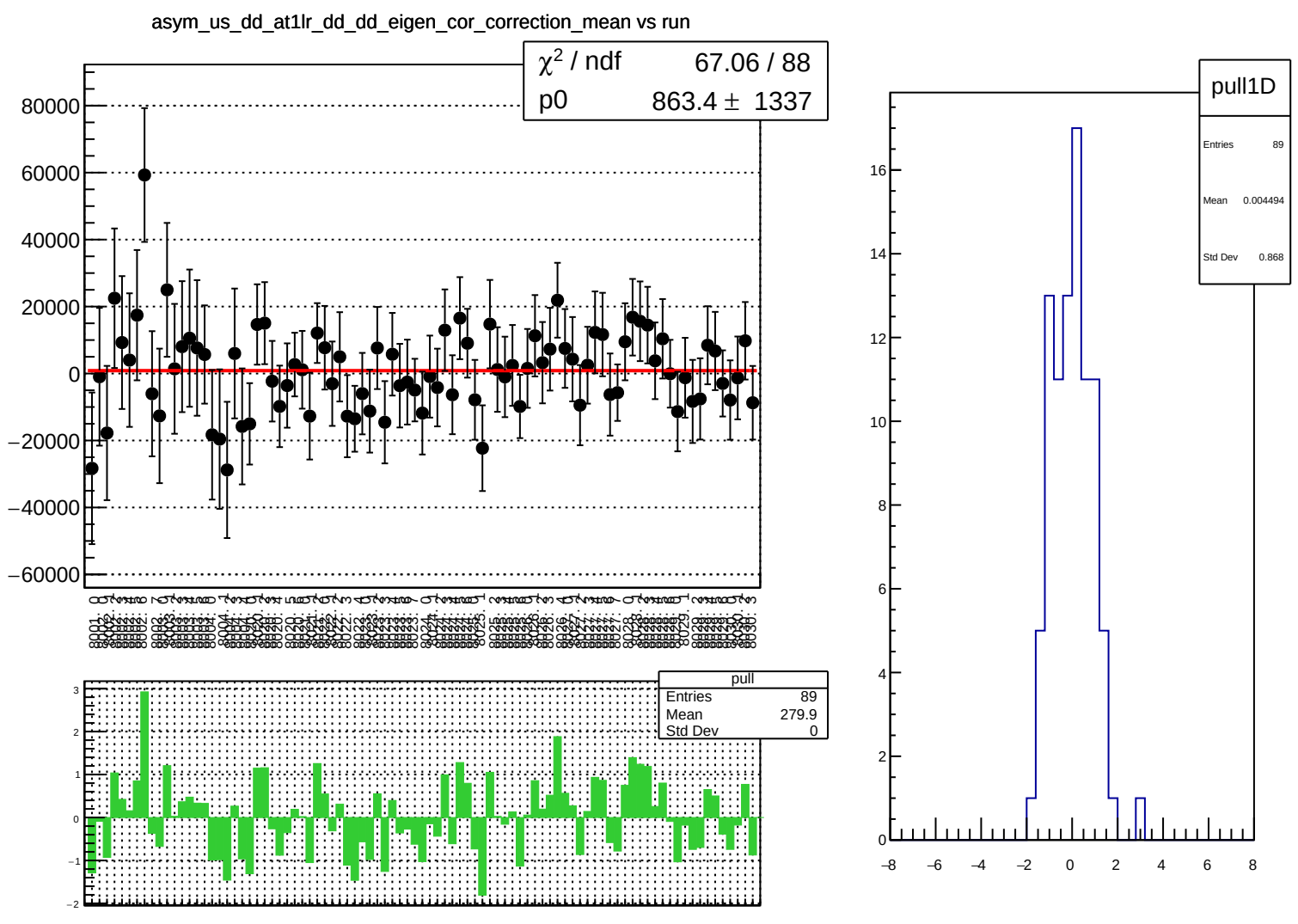

asym_us_dd_at1lr_dd_dd_cor_correction_mean vs run
χ² / ndf 67.06 / 88
p0 863.4 ± 1337
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 279.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.004494
Std Dev 0.868
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

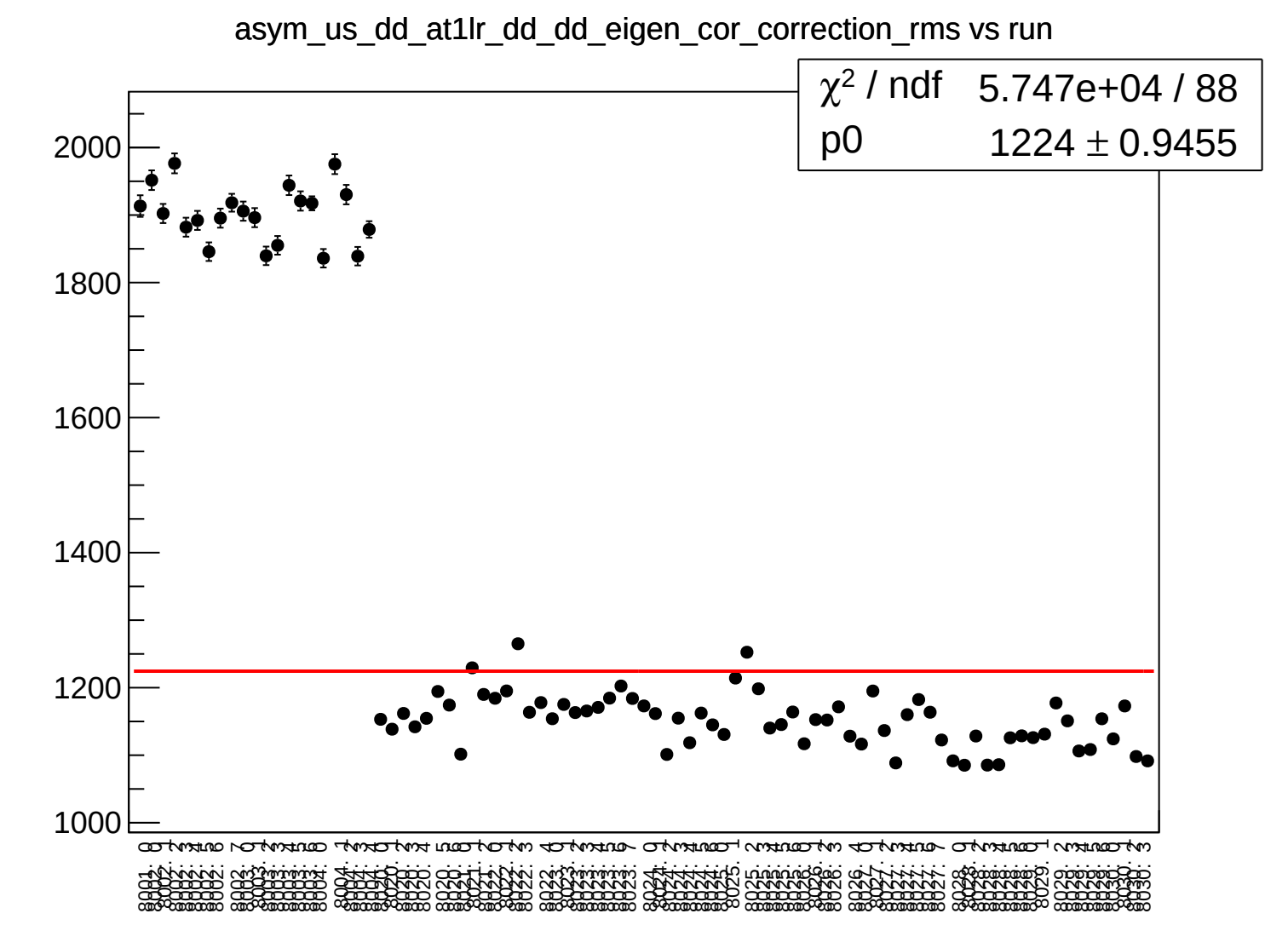

asym_us_dd_at1lr_dd_dd_cor_correction_rms vs run
χ² / ndf 5.747e+04 / 88
p0 1224 ± 0.9455
2000
1800
1600
1400
1200
1000

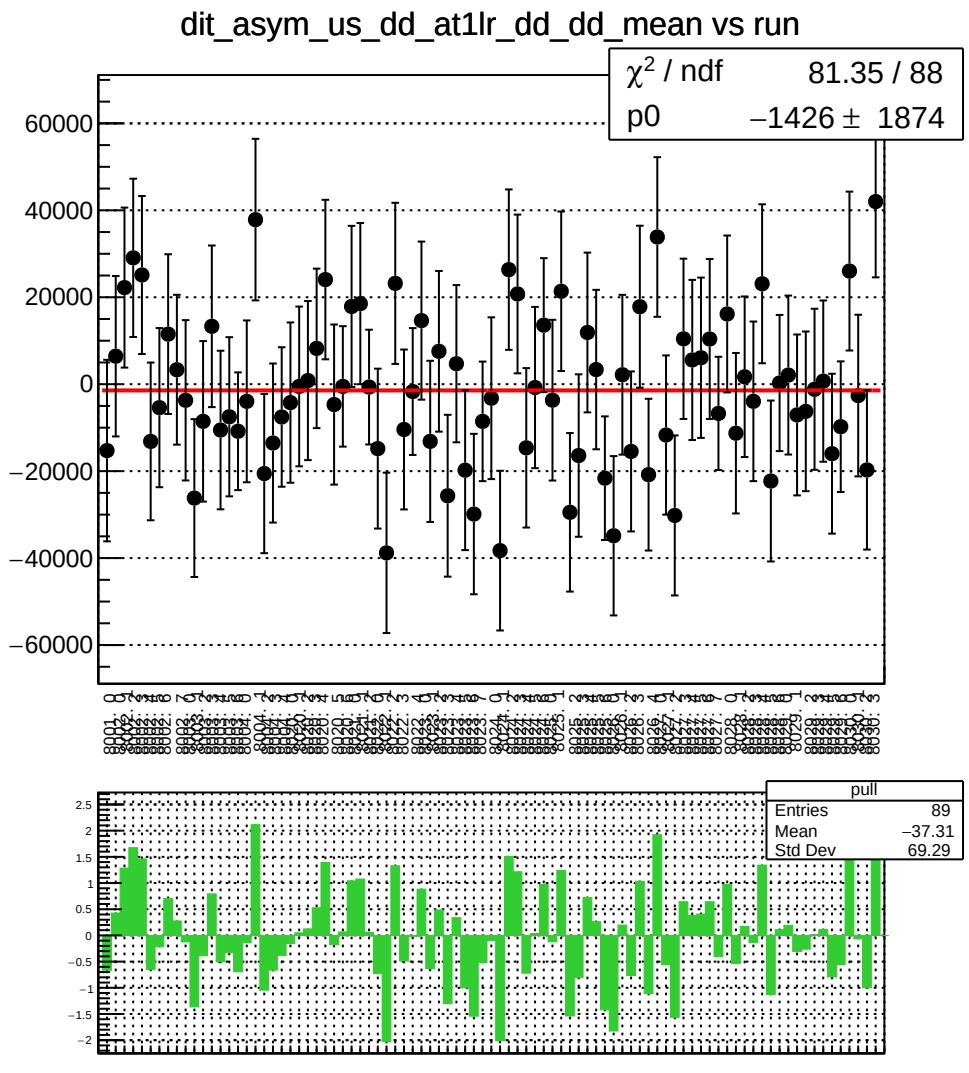

eigen_cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 81.77 / 88
p0 −1421 ± 1873
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −25.72
Std Dev 76.86
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

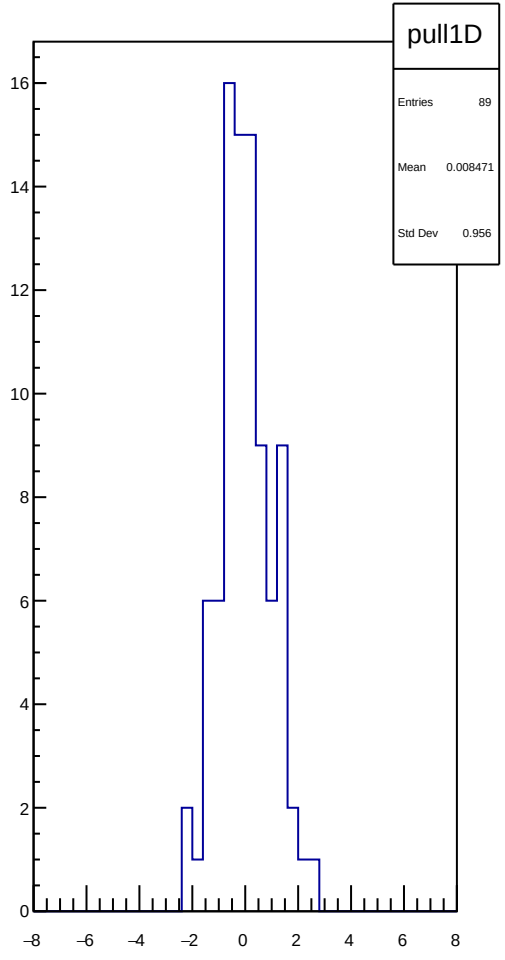

pull1D
Entries 89
Mean 0.009011
Std Dev 0.9585
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

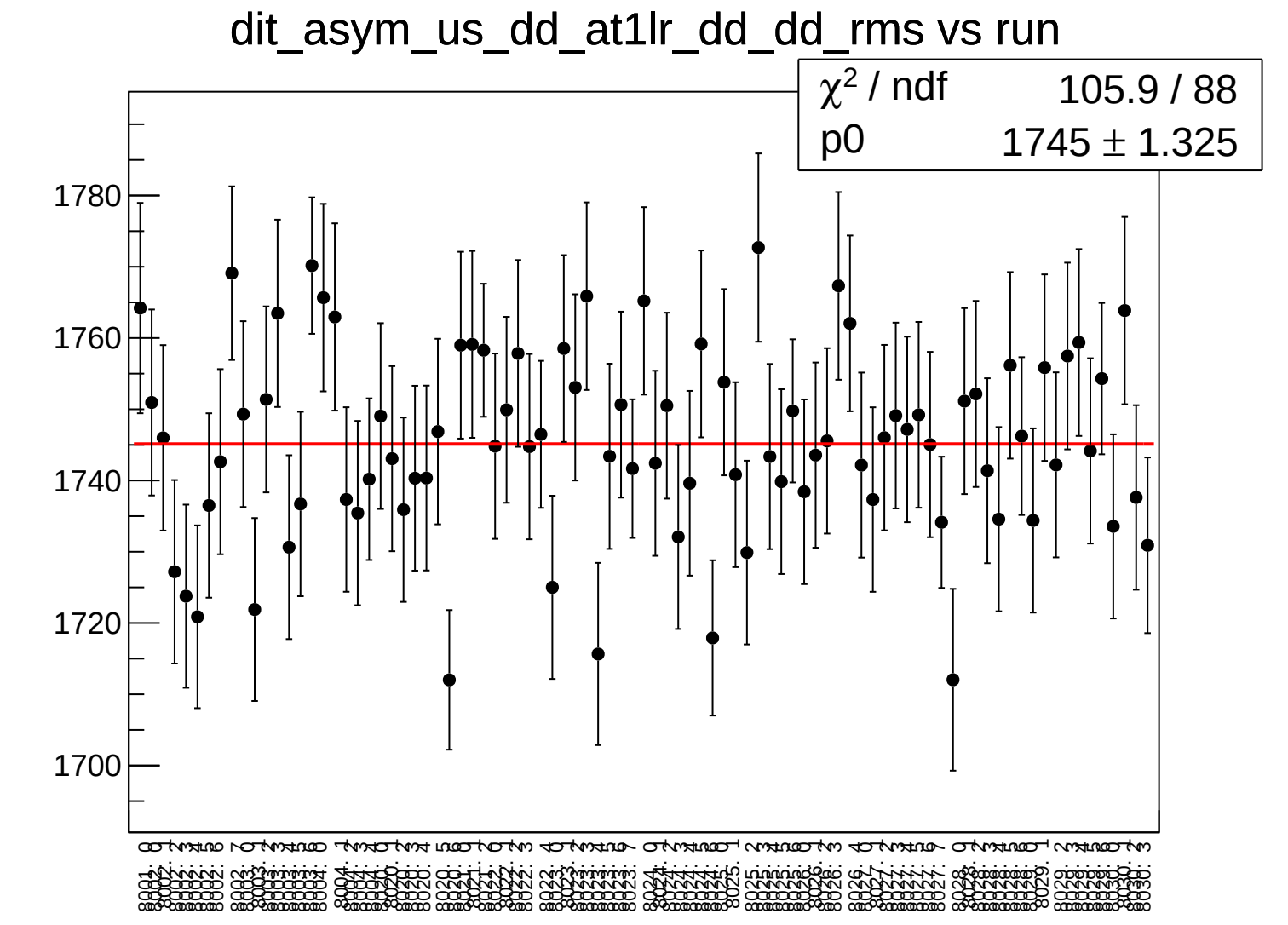

eigen_cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 106.2 / 88
p0 1744 ± 1.324
1780
1760
1740
1720
1700

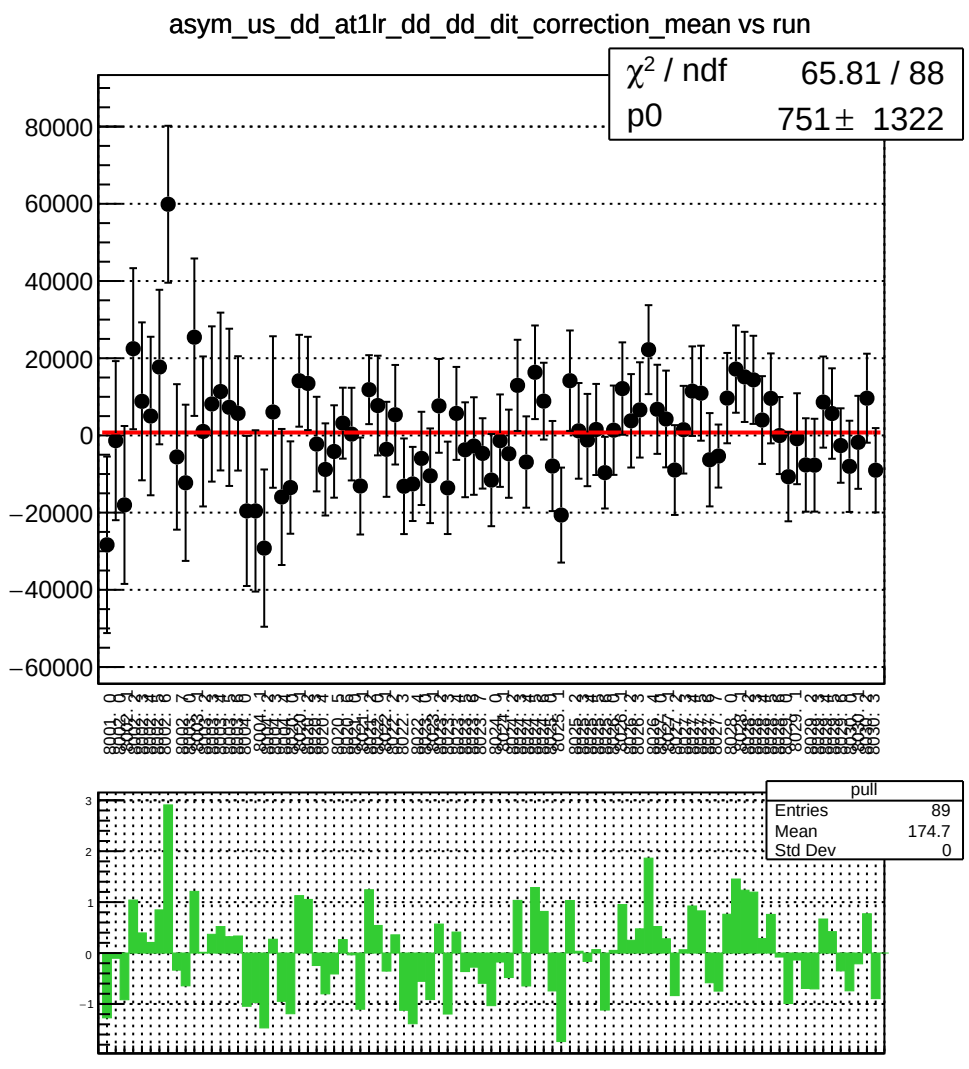

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 67.06 / 88
p0 863.4 ± 1337
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 279.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.004494
Std Dev 0.868
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

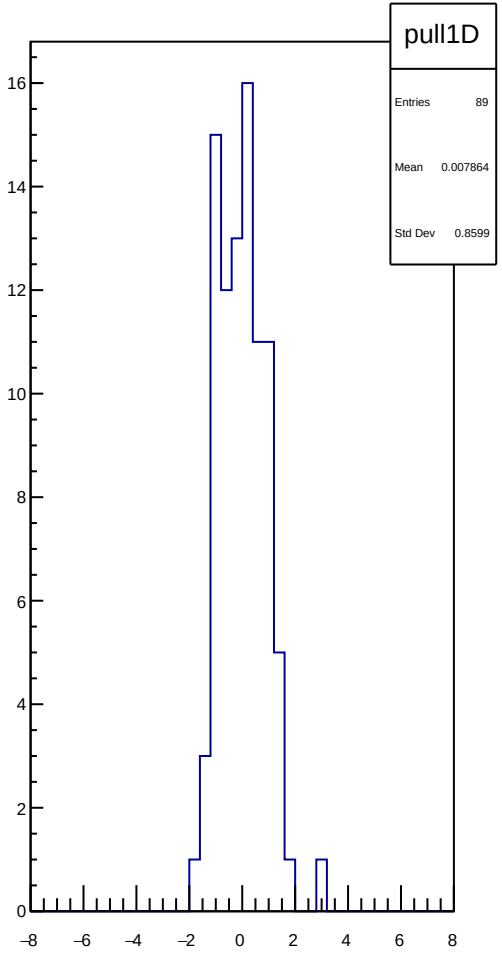

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 5.747e+04 / 88
p0 1224 ± 0.9455
2000
1800
1600
1400
1200
1000

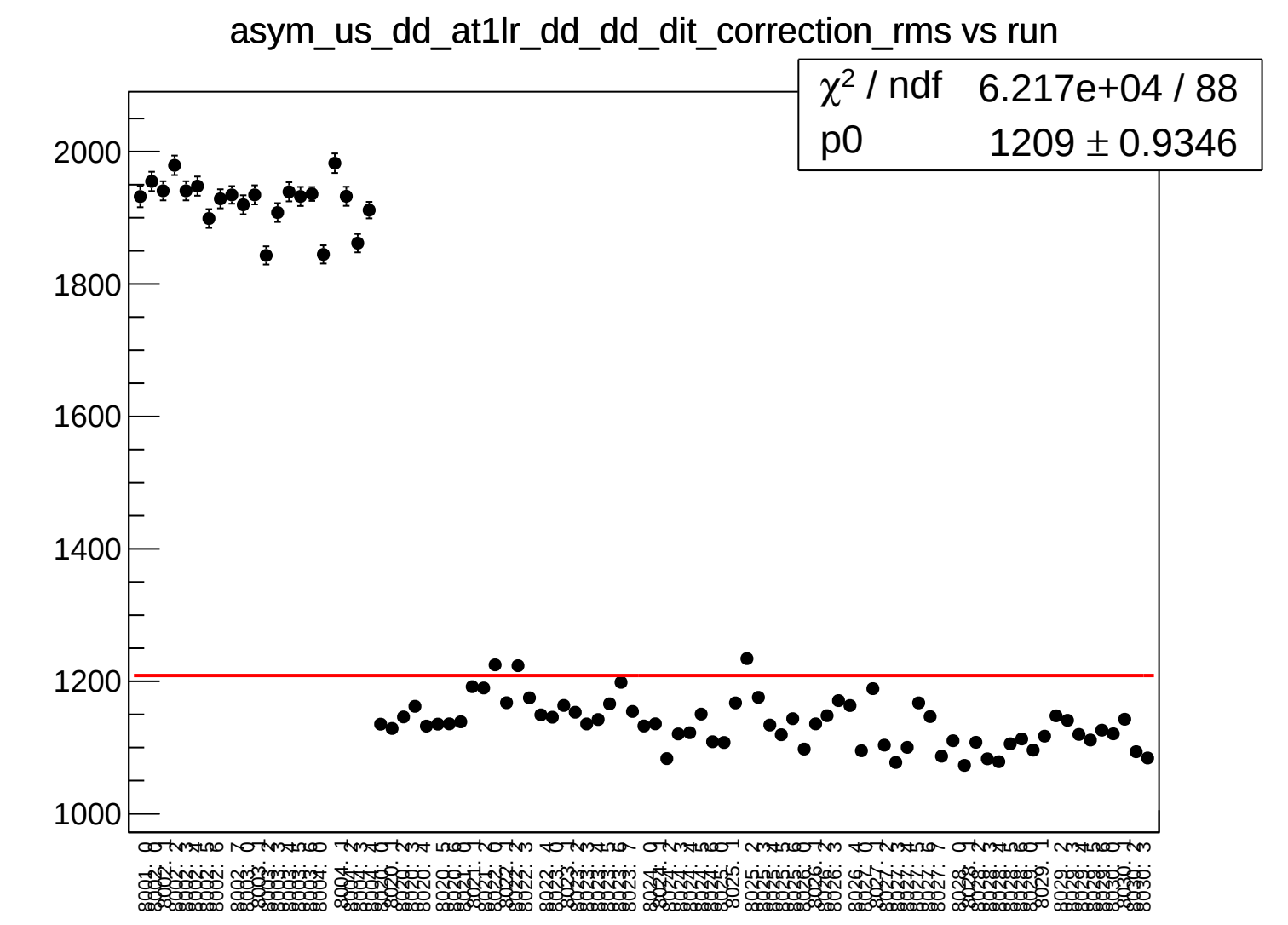

dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 81.35 / 88
p0 −1426 ± 1874
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −37.31
Std Dev 69.29
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

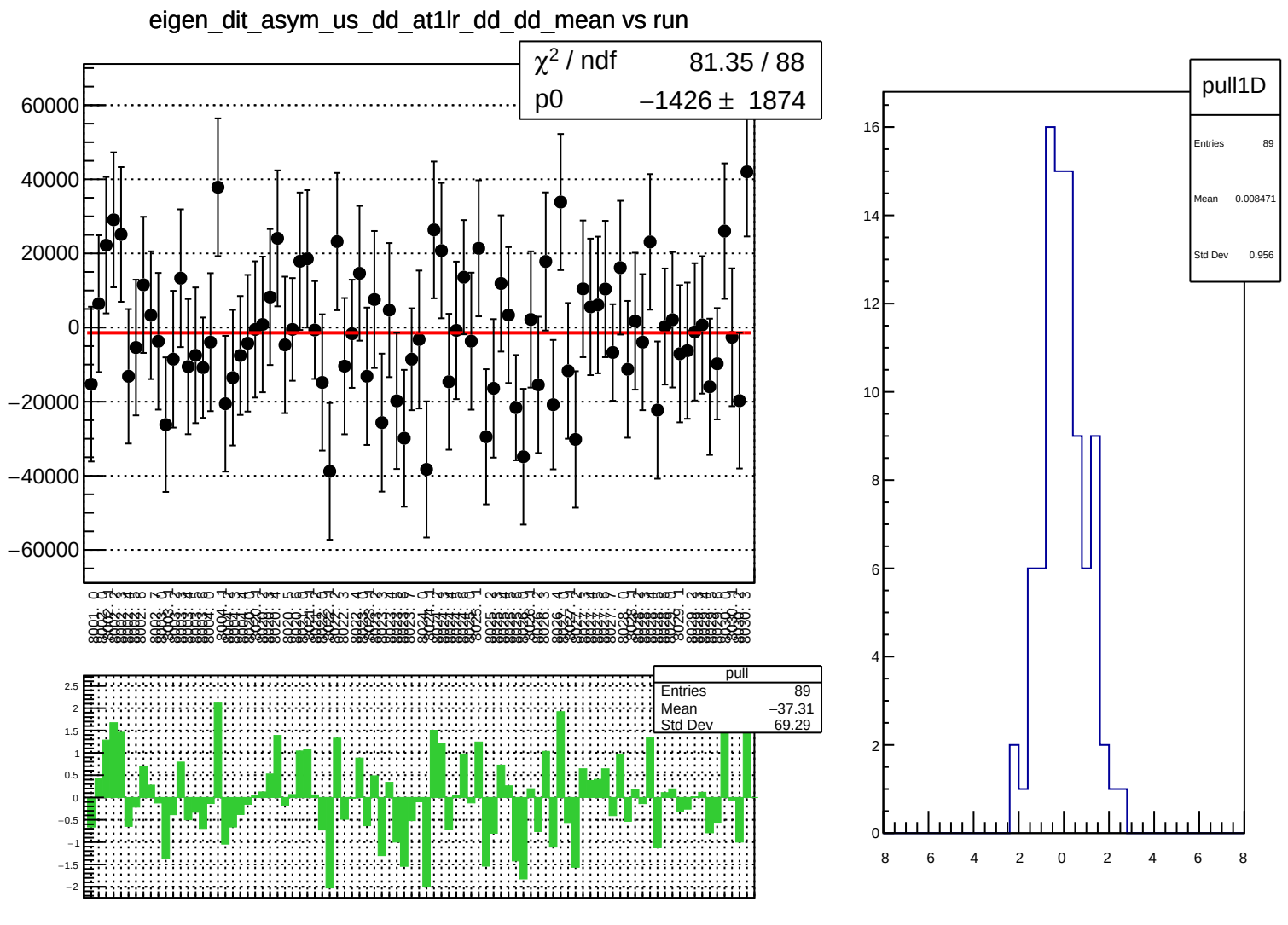

pull1D
Entries 89
Mean 0.008471
Std Dev 0.956
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

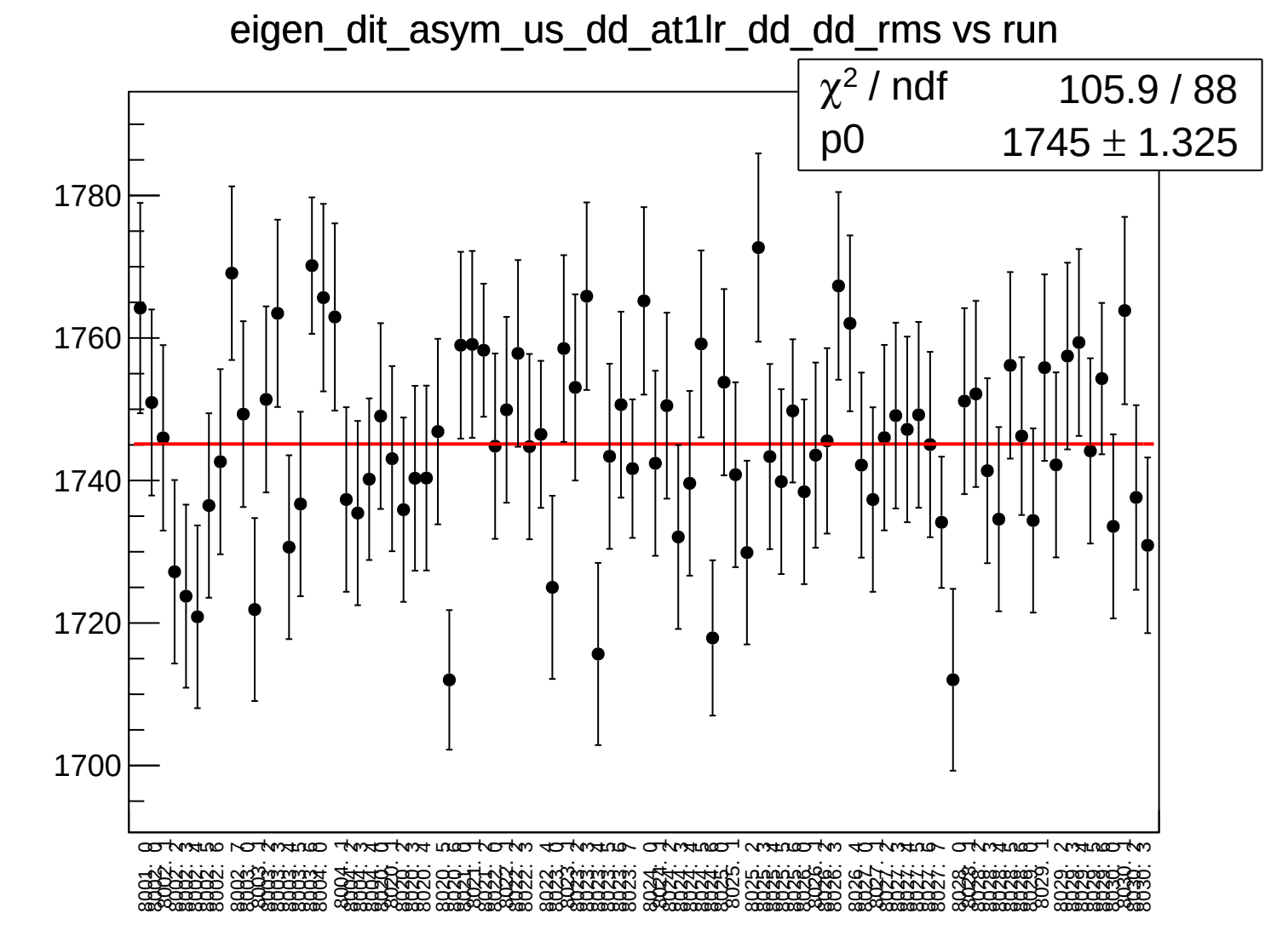

dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 105.9 / 88
p0 1745 ± 1.325
1780
1760
1740
1720
1700

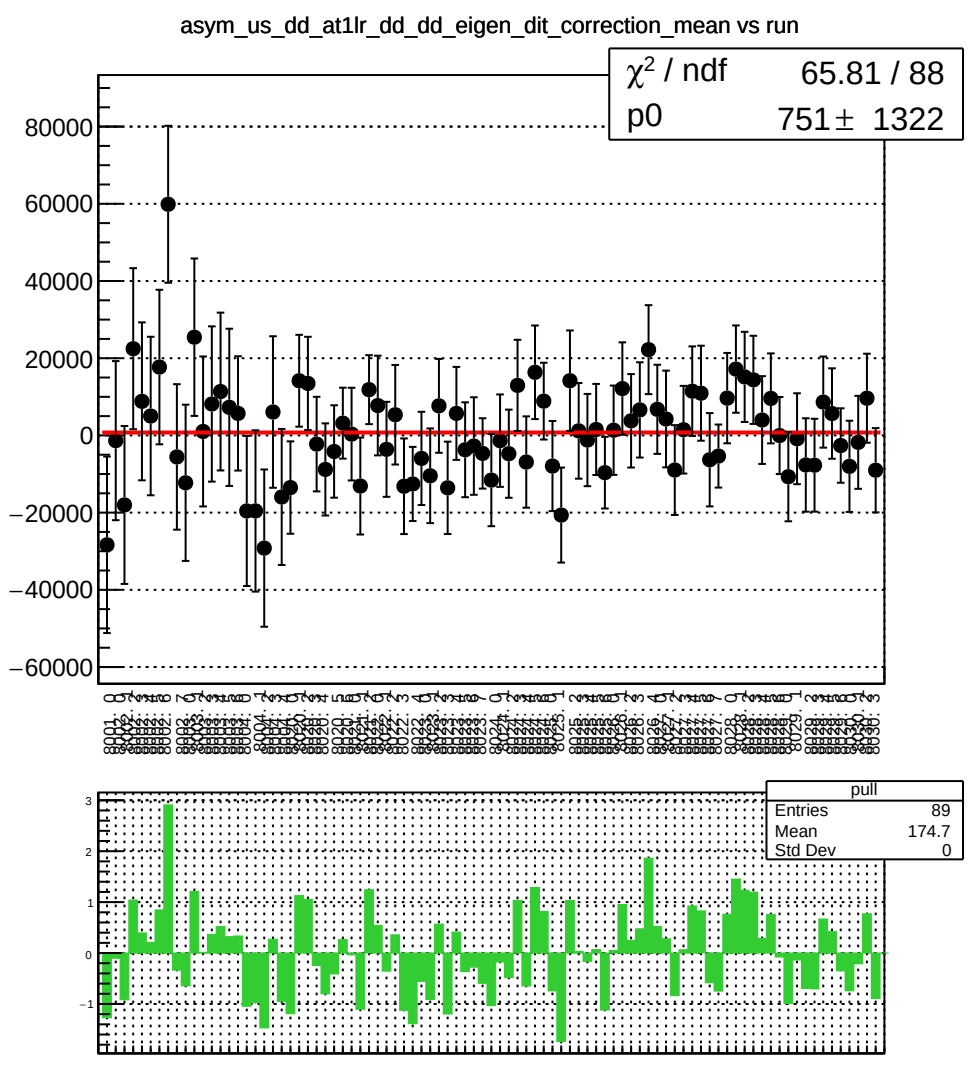

asym_us_dd_at1lr_dd_dd_dit_correction_mean vs run
χ² / ndf 65.81 / 88
p0 751 ± 1322
pull
Entries 89
Mean 174.7
Std Dev 0

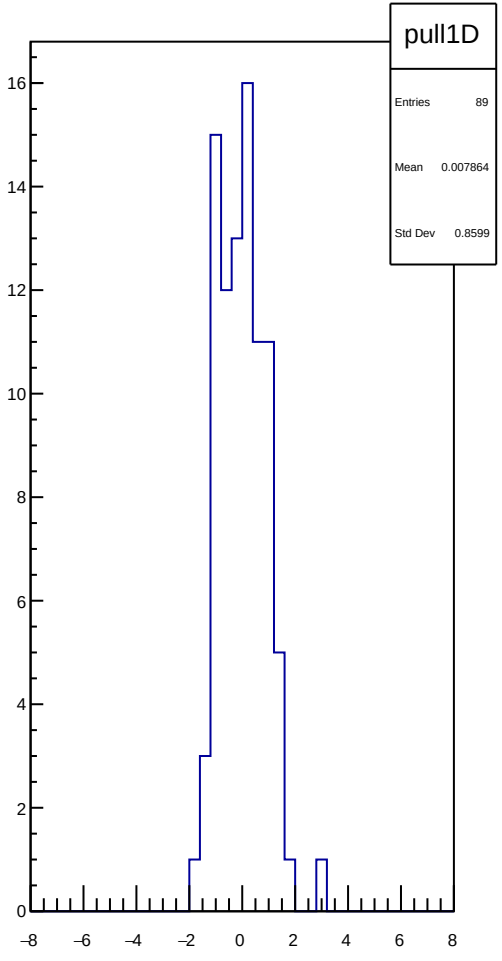

pull1D
Entries 89
Mean 0.007864
Std Dev 0.8599

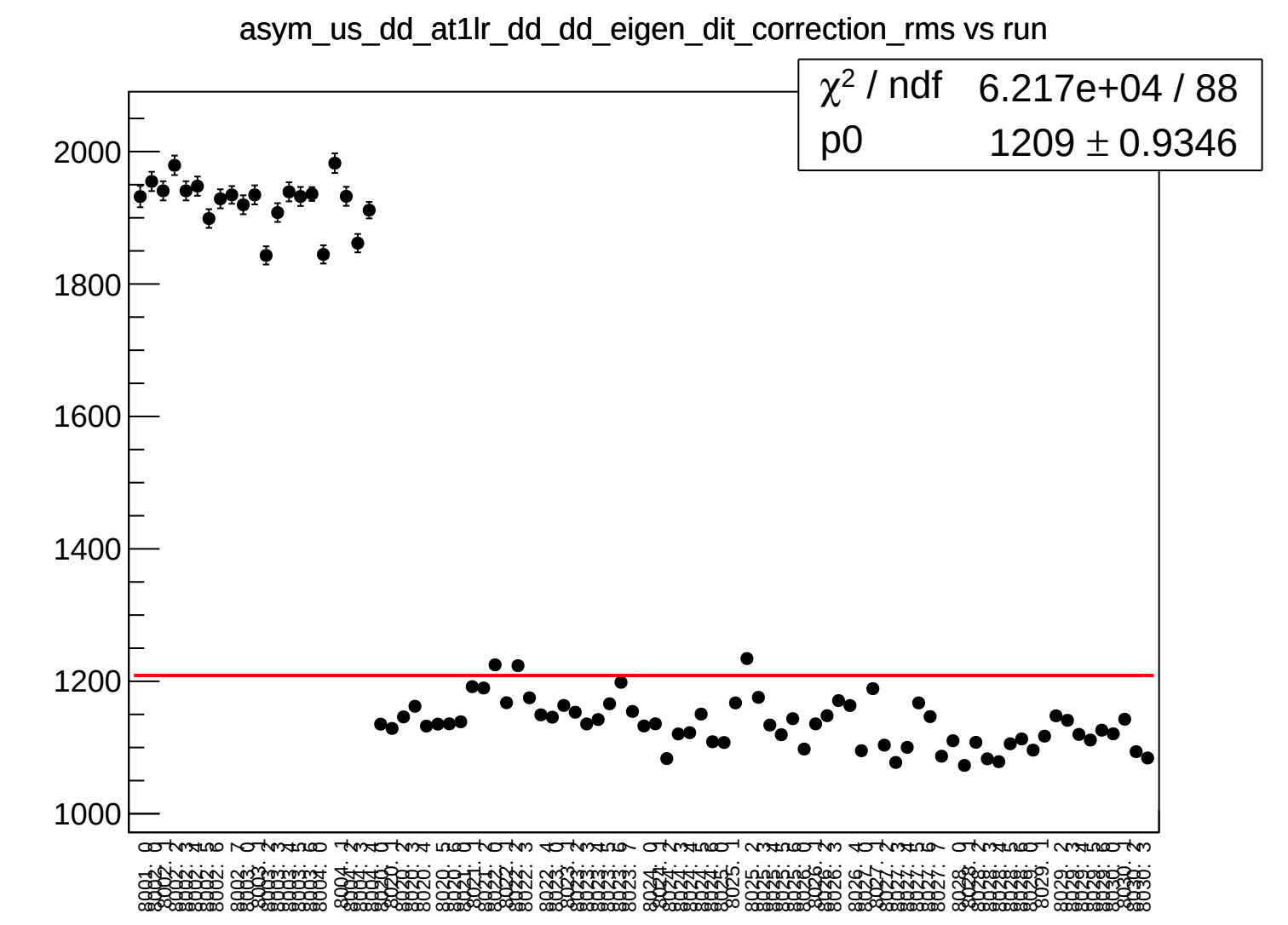

asym_us_dd_at1lr_dd_dd_dit_correction_rms vs run
χ² / ndf 6.217e+04 / 88
p0 1209 ± 0.9346
2000
1800
1600
1400
1200
1000

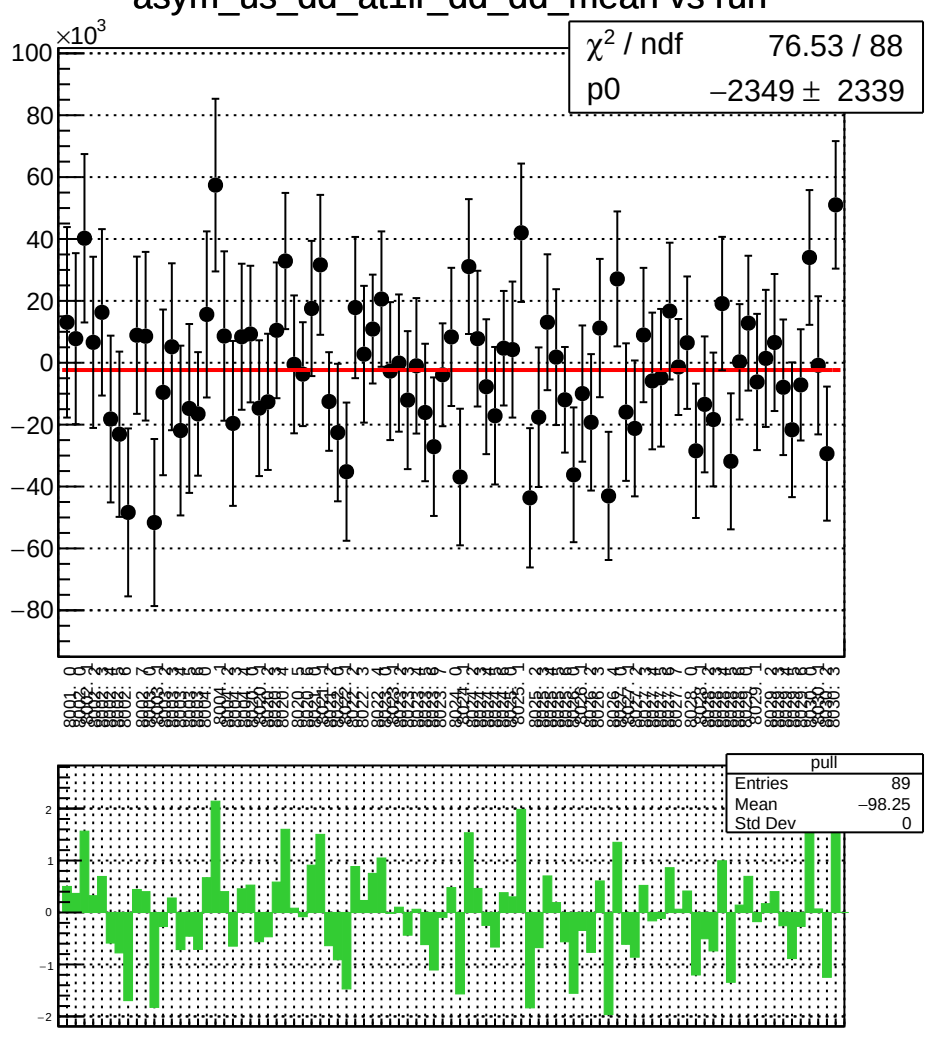

eigen_dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 81.35 / 88
p0 −1426 ± 1874
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −37.31
Std Dev 69.29
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean 0.008471
Std Dev 0.956
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

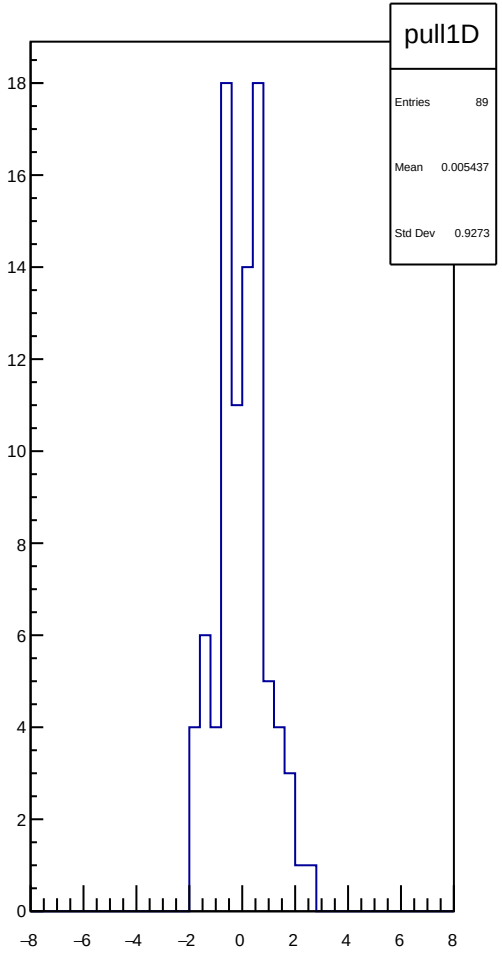

eigen_dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 105.9 / 88
p0 1745 ± 1.325
1780
1760
1740
1720
1700

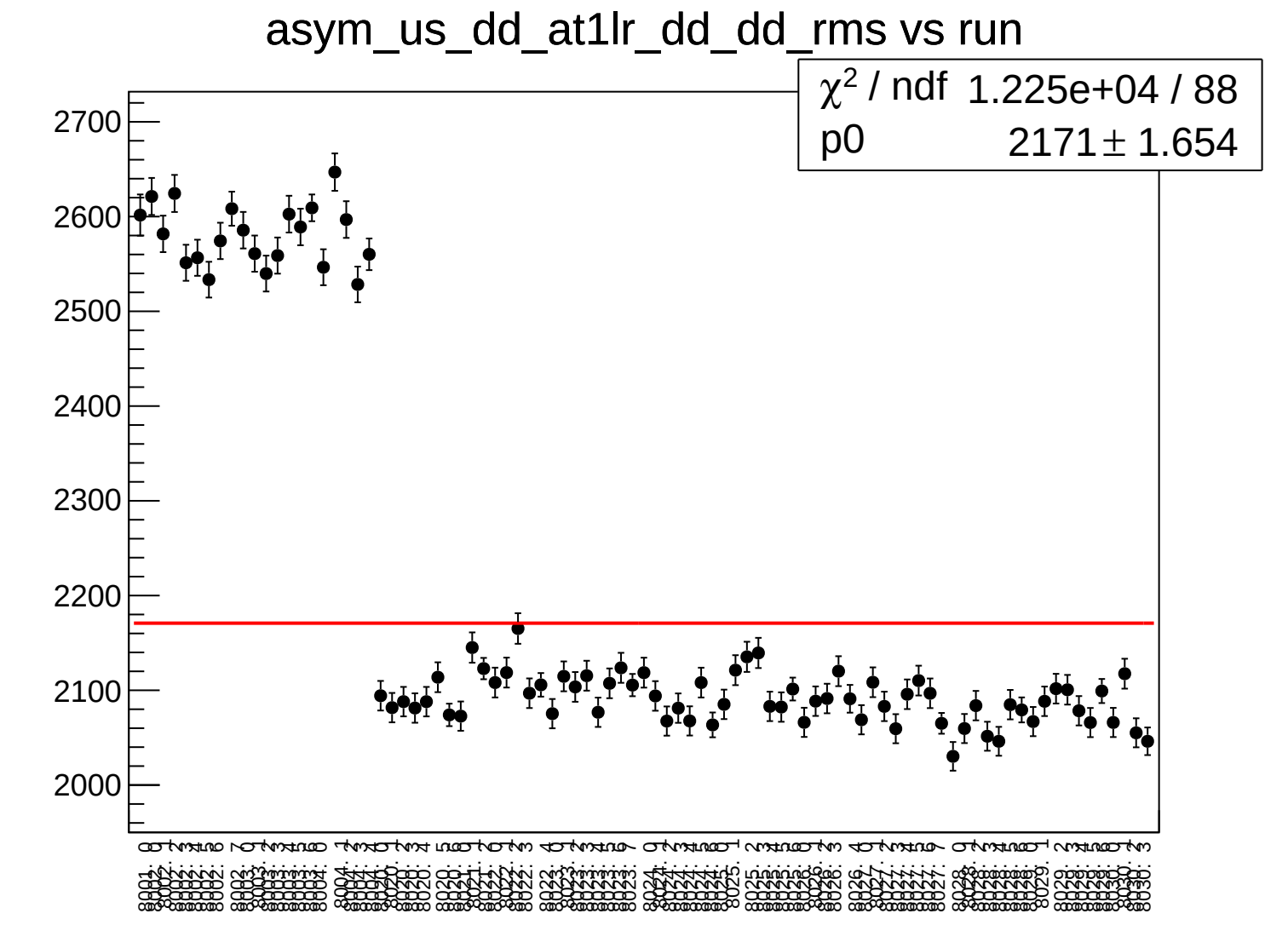

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 65.81 / 88
p0 751 ± 1322
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 174.7
Std Dev 0
3
2
1
0
−1

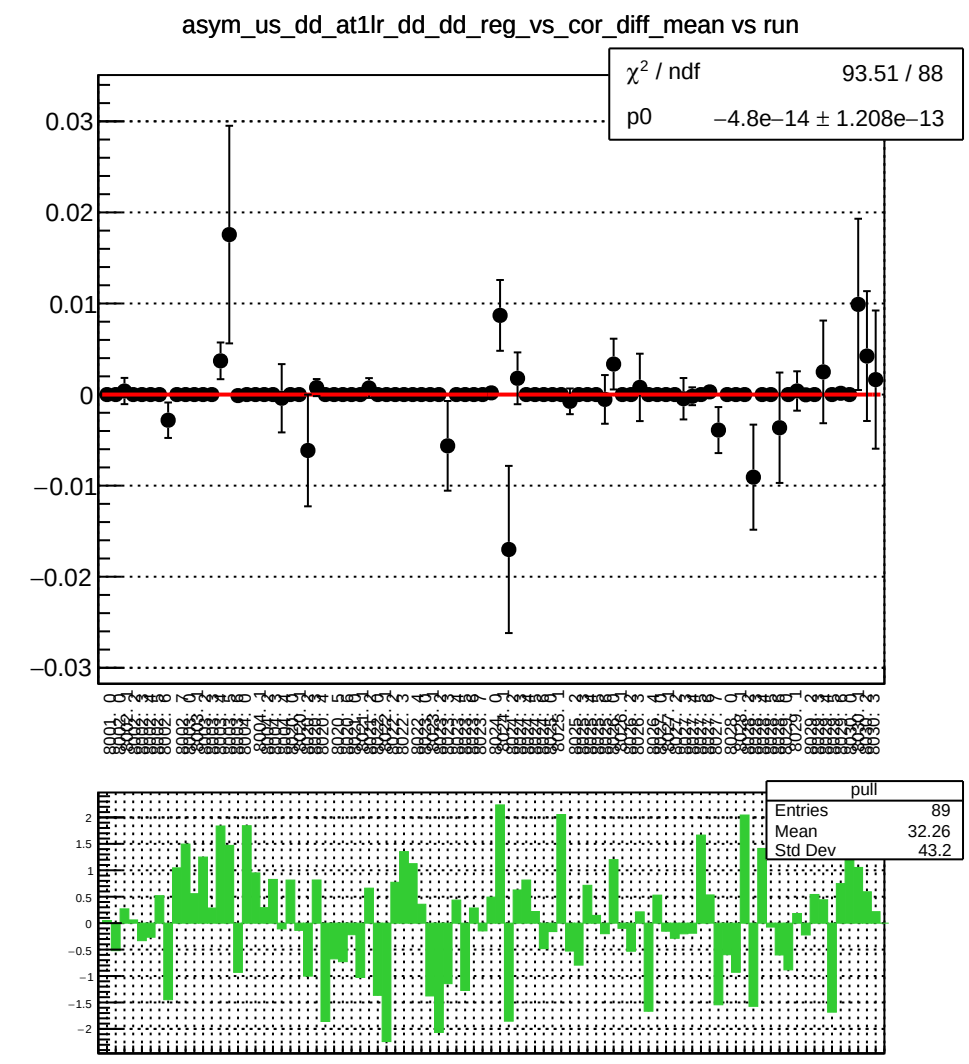

pull1D
Entries 89
Mean 0.007864
Std Dev 0.8599
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

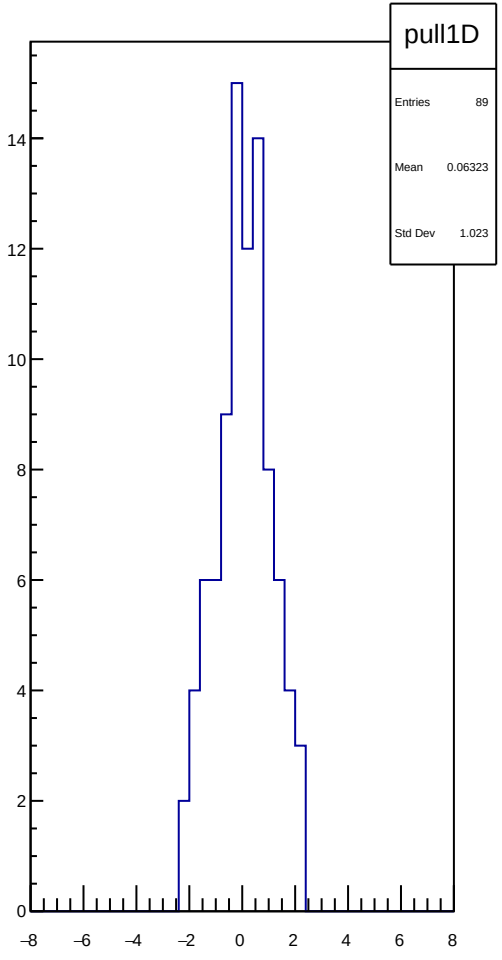

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 6.217e+04 / 88
p0 1209 ± 0.9346
2000
1800
1600
1400
1200
1000

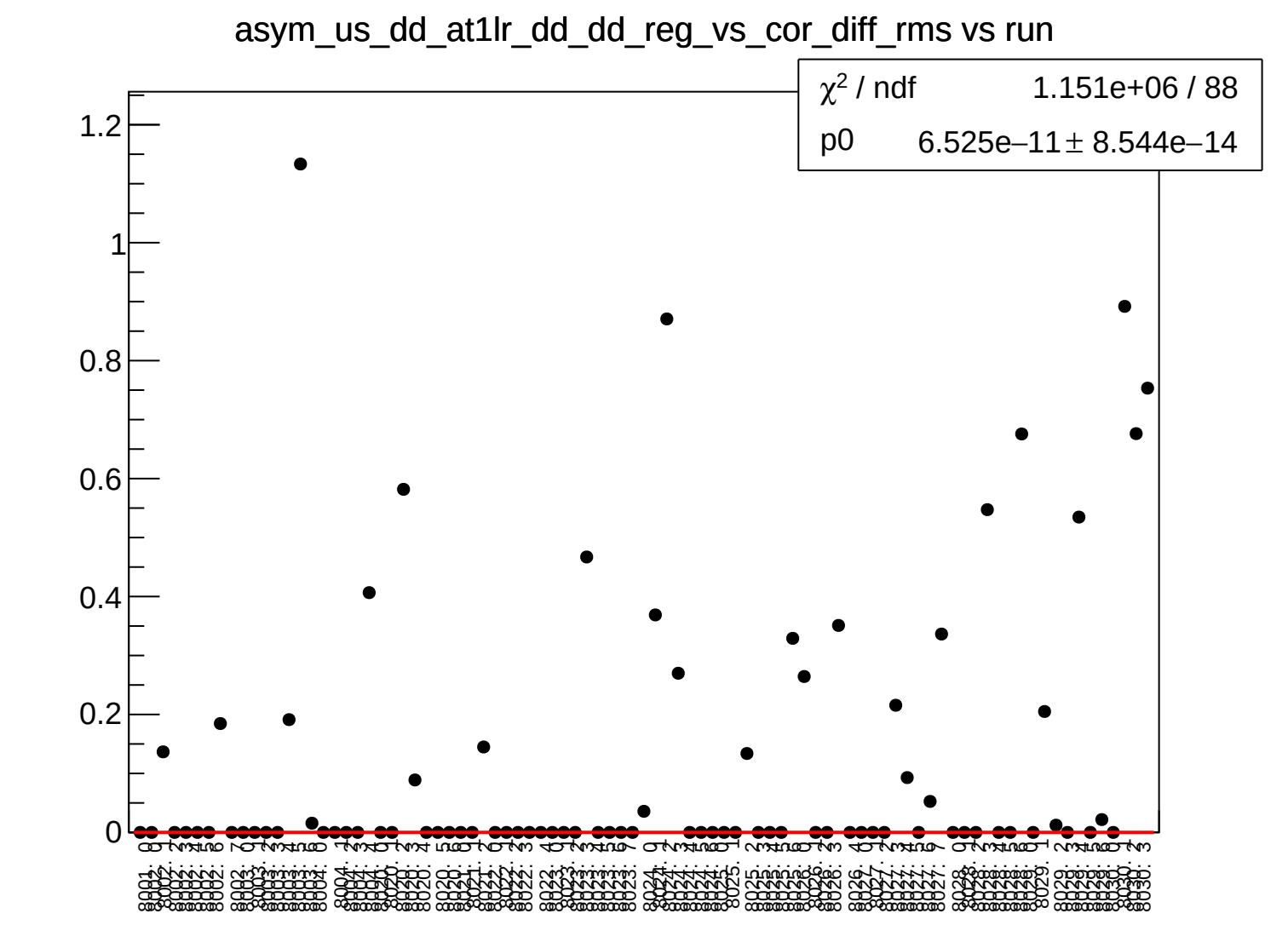

asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 76.53 / 88
p0 −2349 ± 2339
pull
Entries 89
Mean −98.25
Std Dev 0

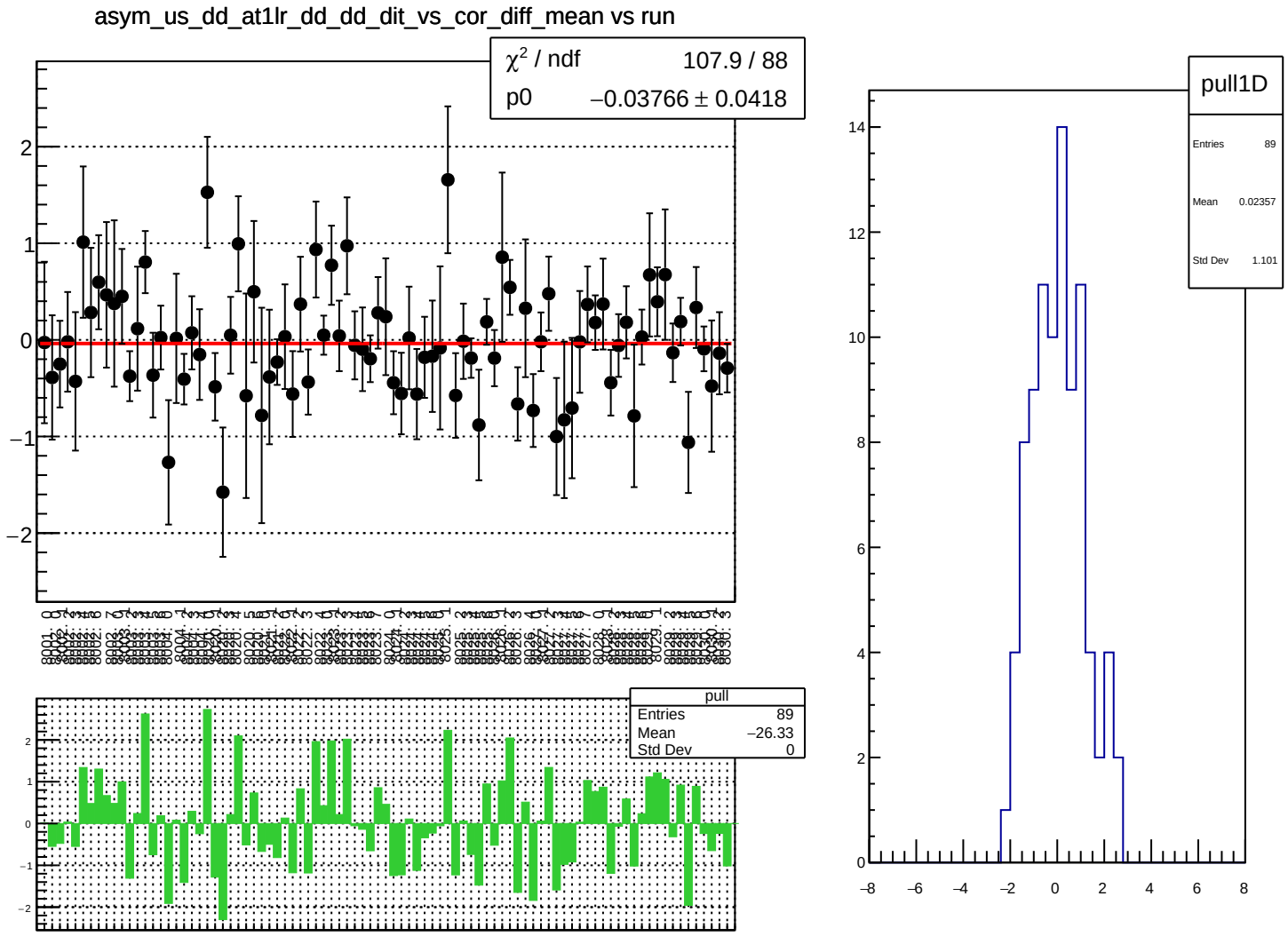

pull1D
Entries 89
Mean 0.005437
Std Dev 0.9273

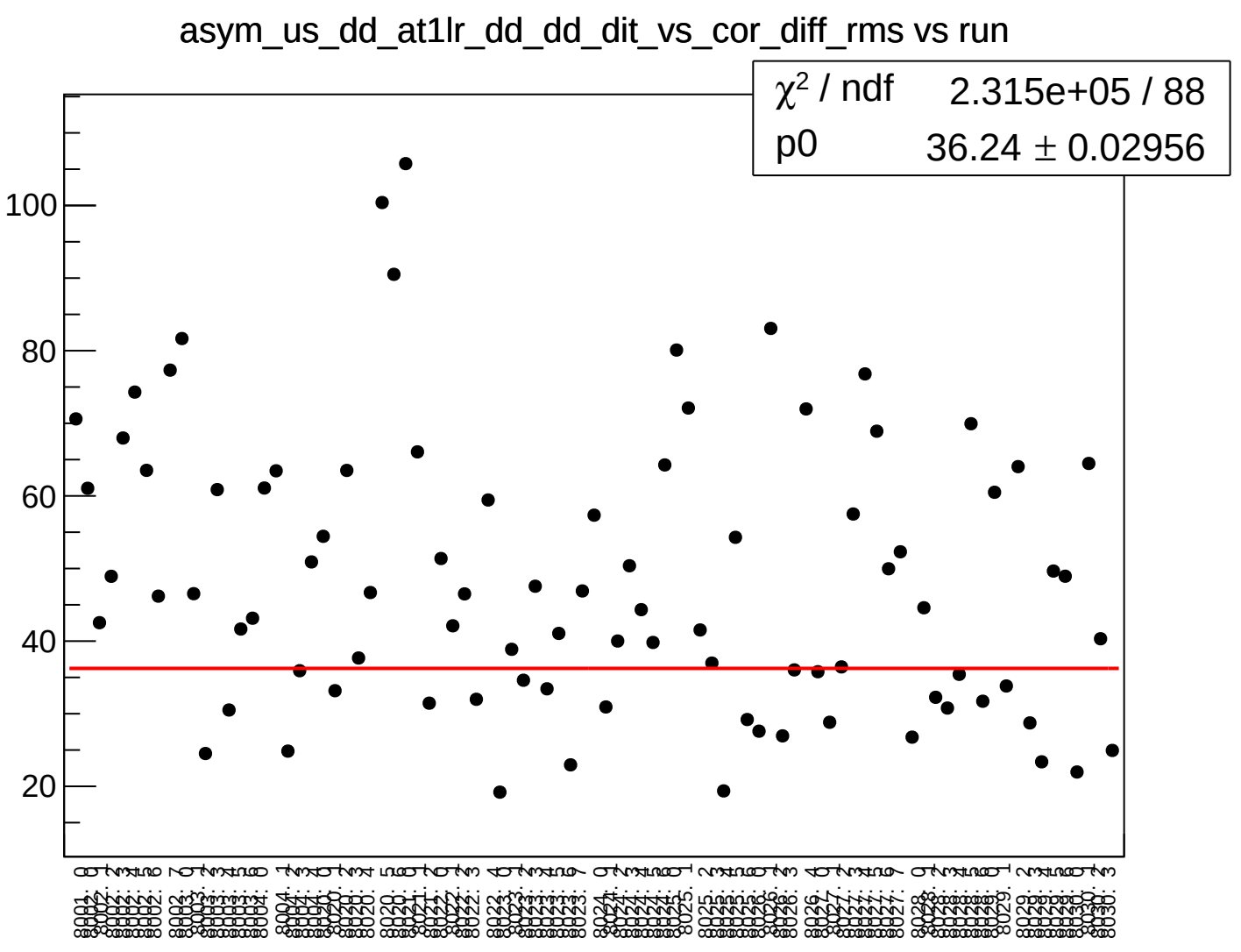

asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 1.225e+04 / 88
p0 2171 ± 1.654
2700
2600
2500
2400
2300
2200
2100
2000

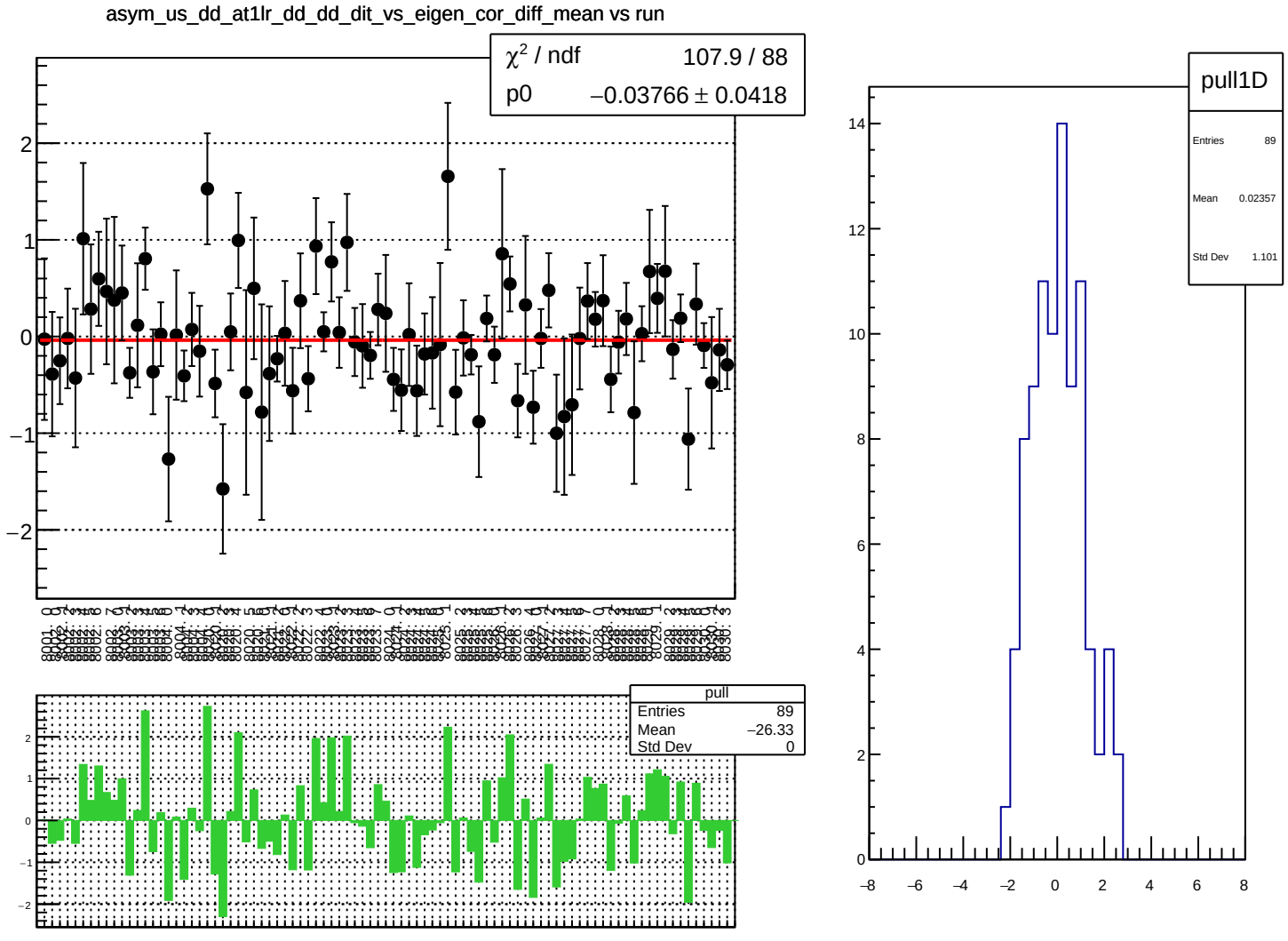

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 93.51 / 88
p0 −4.8e−14 ± 1.208e−13
pull
Entries 89
Mean 32.26
Std Dev 43.2

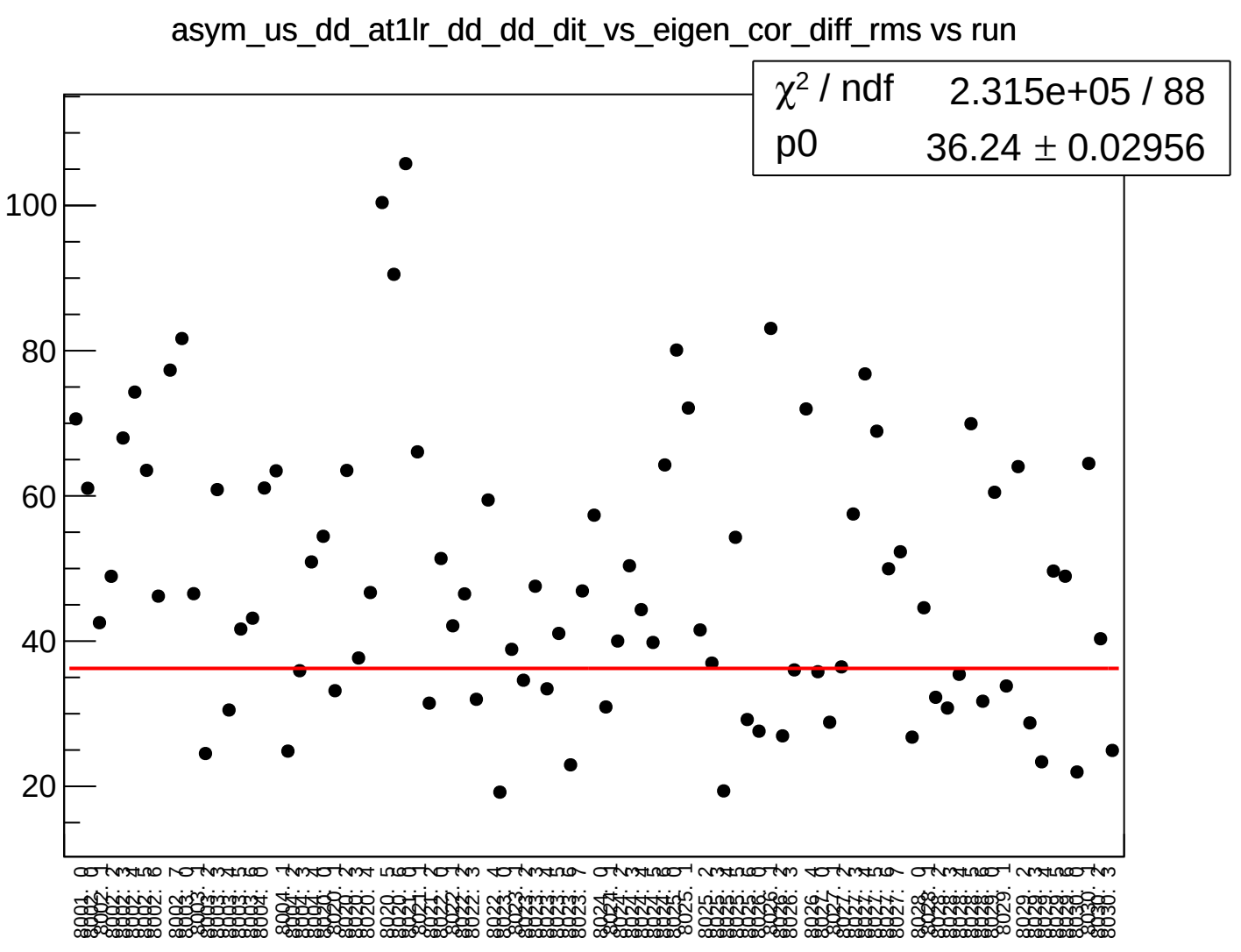

pull1D
Entries 89
Mean 0.06323
Std Dev 1.023

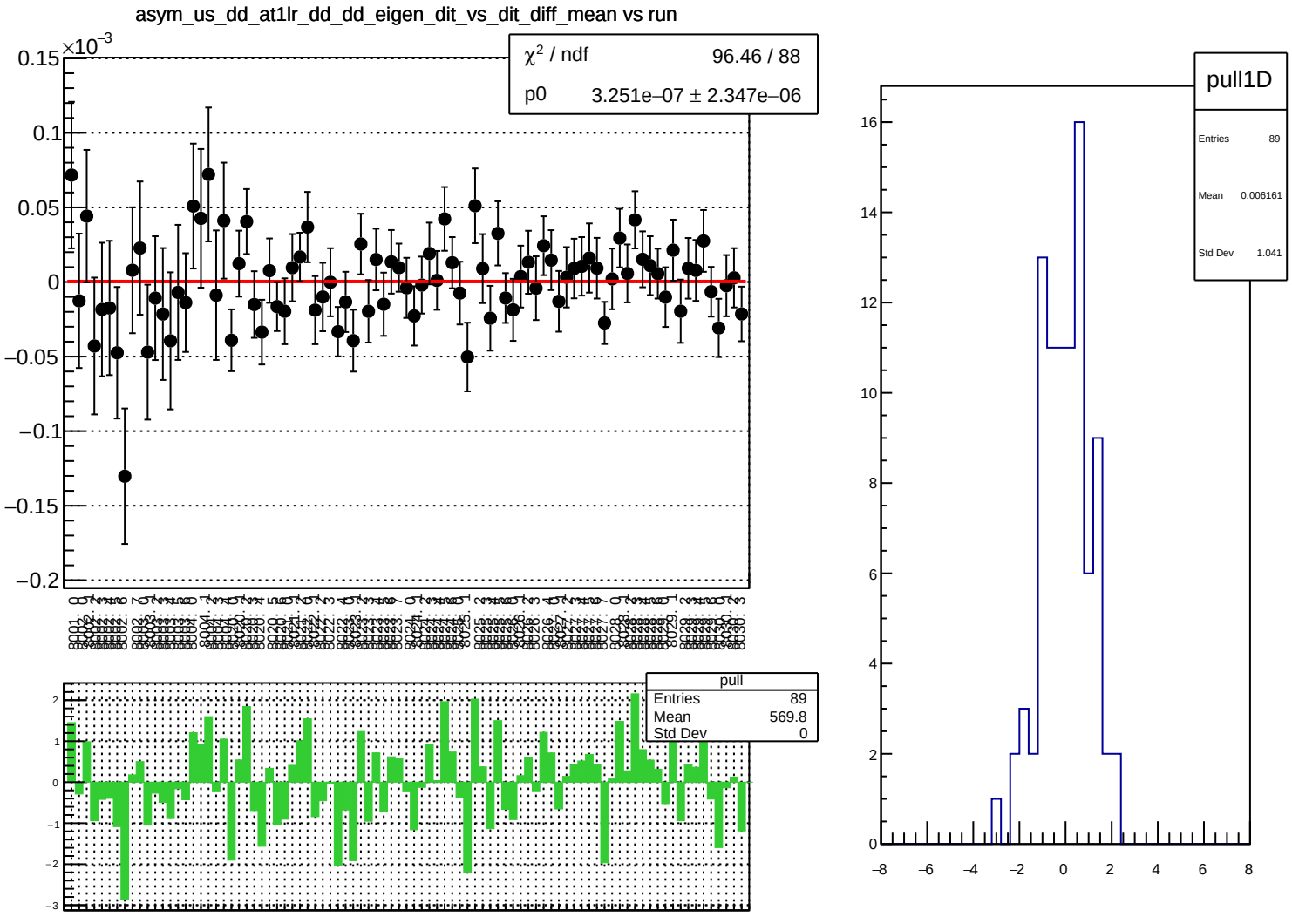

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.151e+06 / 88
p0 6.525e−11 ± 8.544e−14
1.2
1
0.8
0.6
0.4
0.2
0

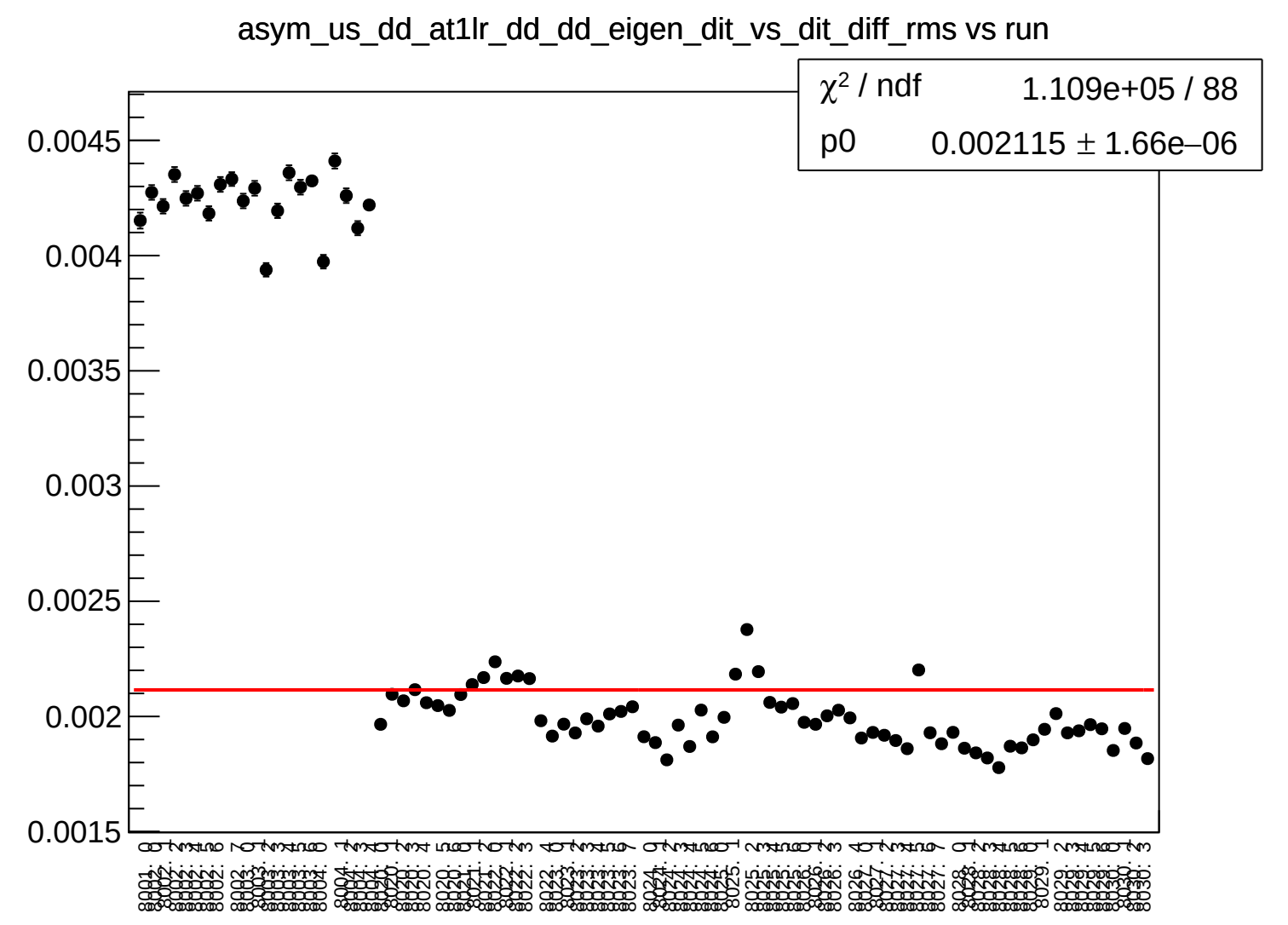

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 107.9 / 88
p0 −0.03766 ± 0.0418
pull
Entries 89
Mean −26.33
Std Dev 0
pull1D
Entries 89
Mean 0.02357
Std Dev 1.101

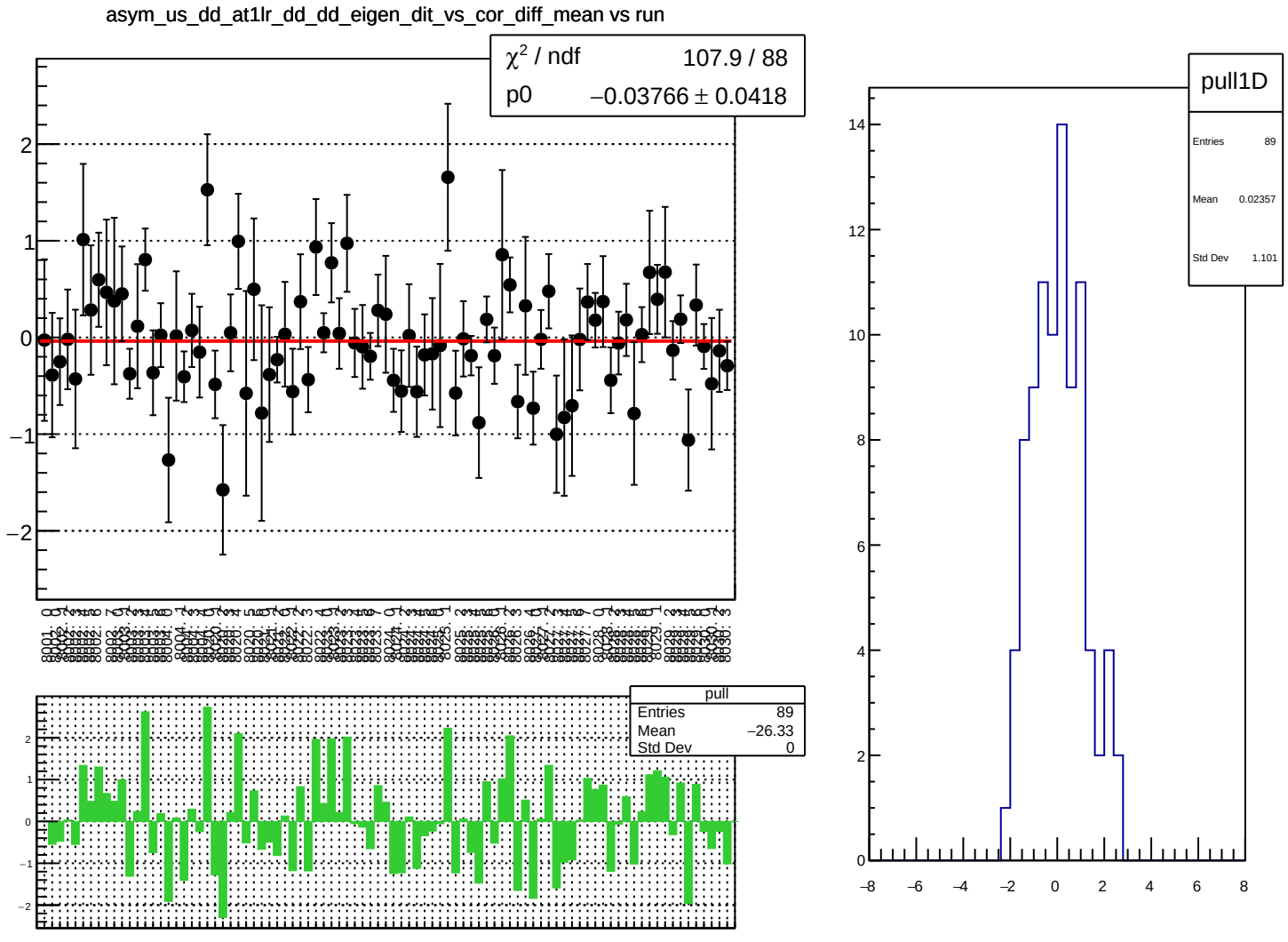

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.315e+05 / 88
p0 36.24 ± 0.02956
100
80
60
40
20

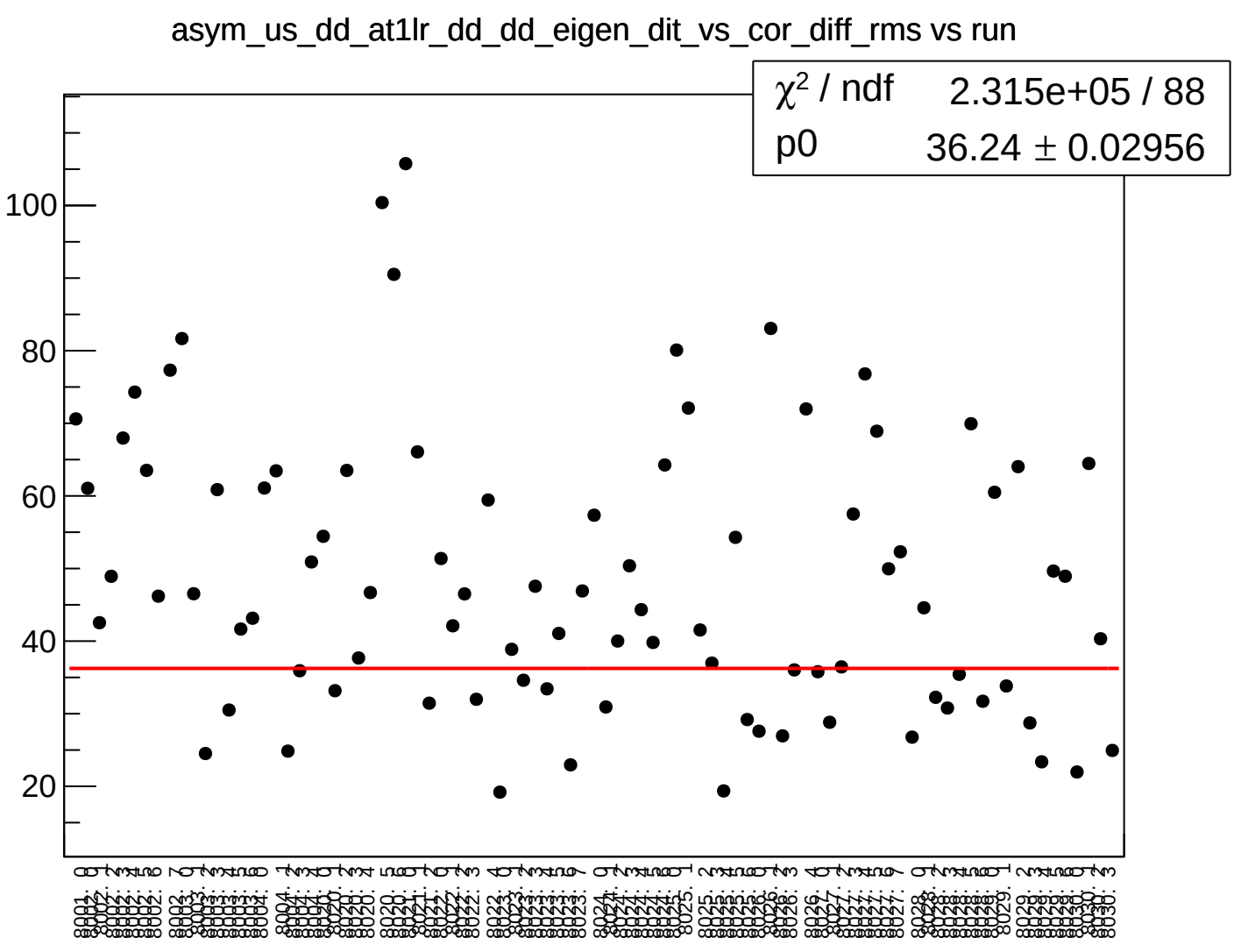

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.9 / 88
p0 −0.03766 ± 0.0418
pull
Entries 89
Mean −26.33
Std Dev 0
pull1D
Entries 89
Mean 0.02357
Std Dev 1.101

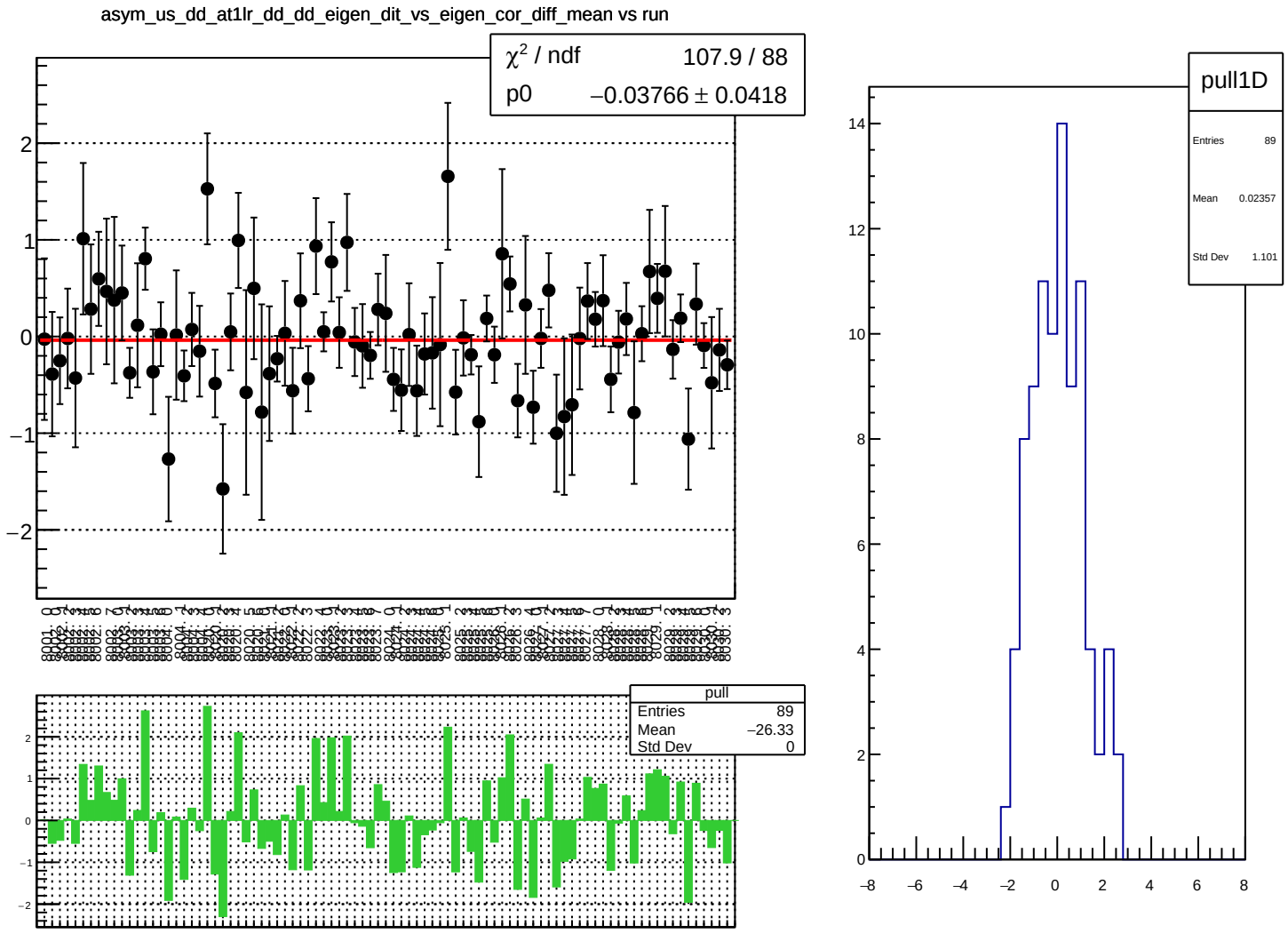

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.315e+05 / 88
p0 36.24 ± 0.02956
100
80
60
40
20

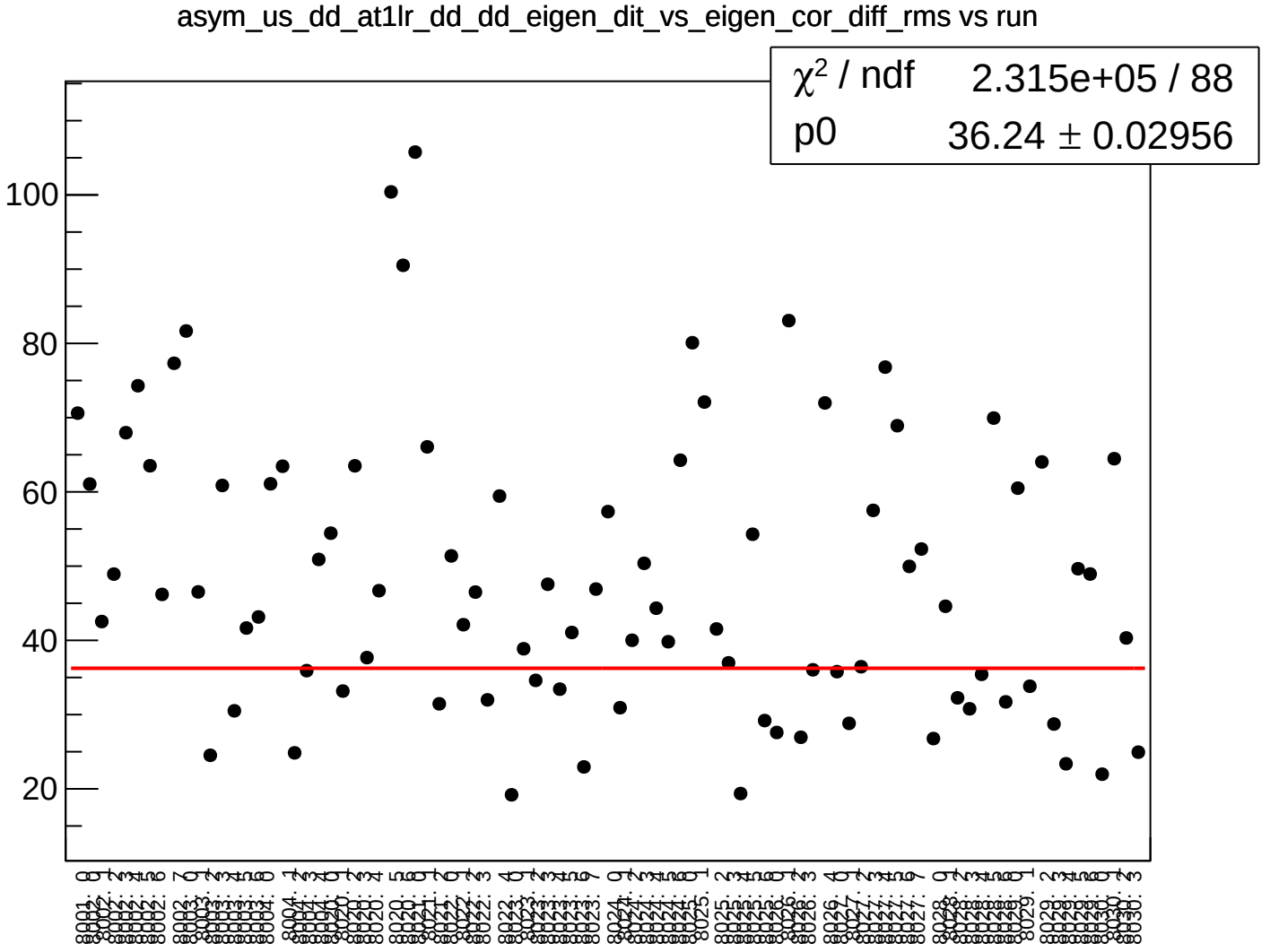

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.46 / 88
p0 3.251e−07 ± 2.347e−06
pull
Entries 89
Mean 569.8
Std Dev 0
pull1D
Entries 89
Mean 0.006161
Std Dev 1.041

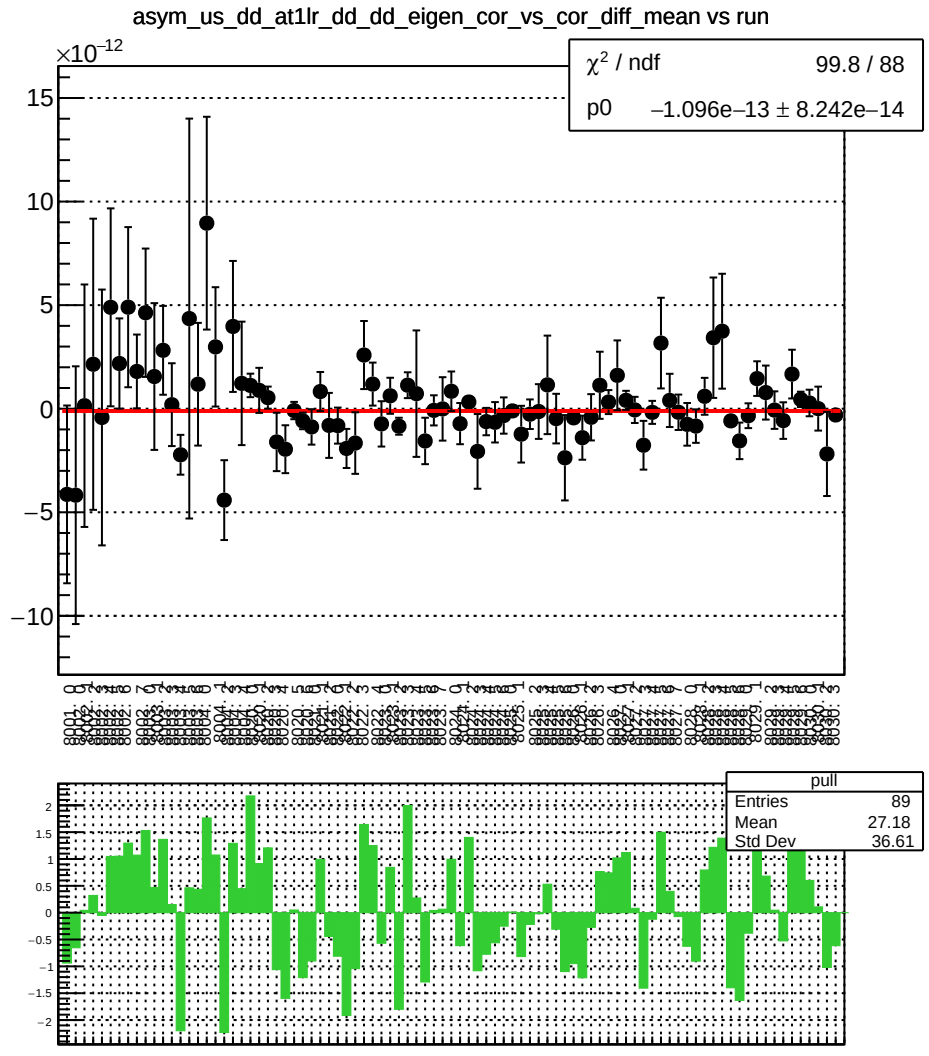

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.109e+05 / 88
p0 0.002115 ± 1.66e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015

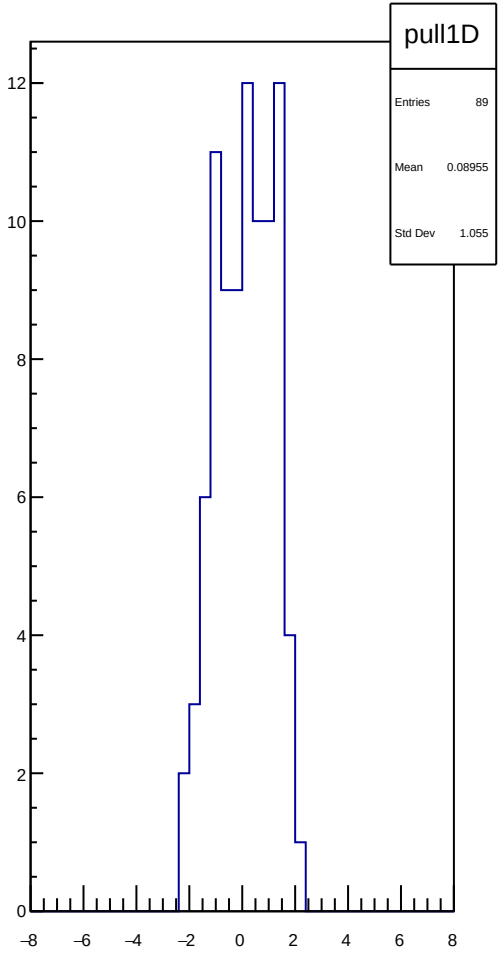

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 107.9 / 88
p0 −0.03766 ± 0.0418
pull
Entries 89
Mean −26.33
Std Dev 0
pull1D
Entries 89
Mean 0.02357
Std Dev 1.101

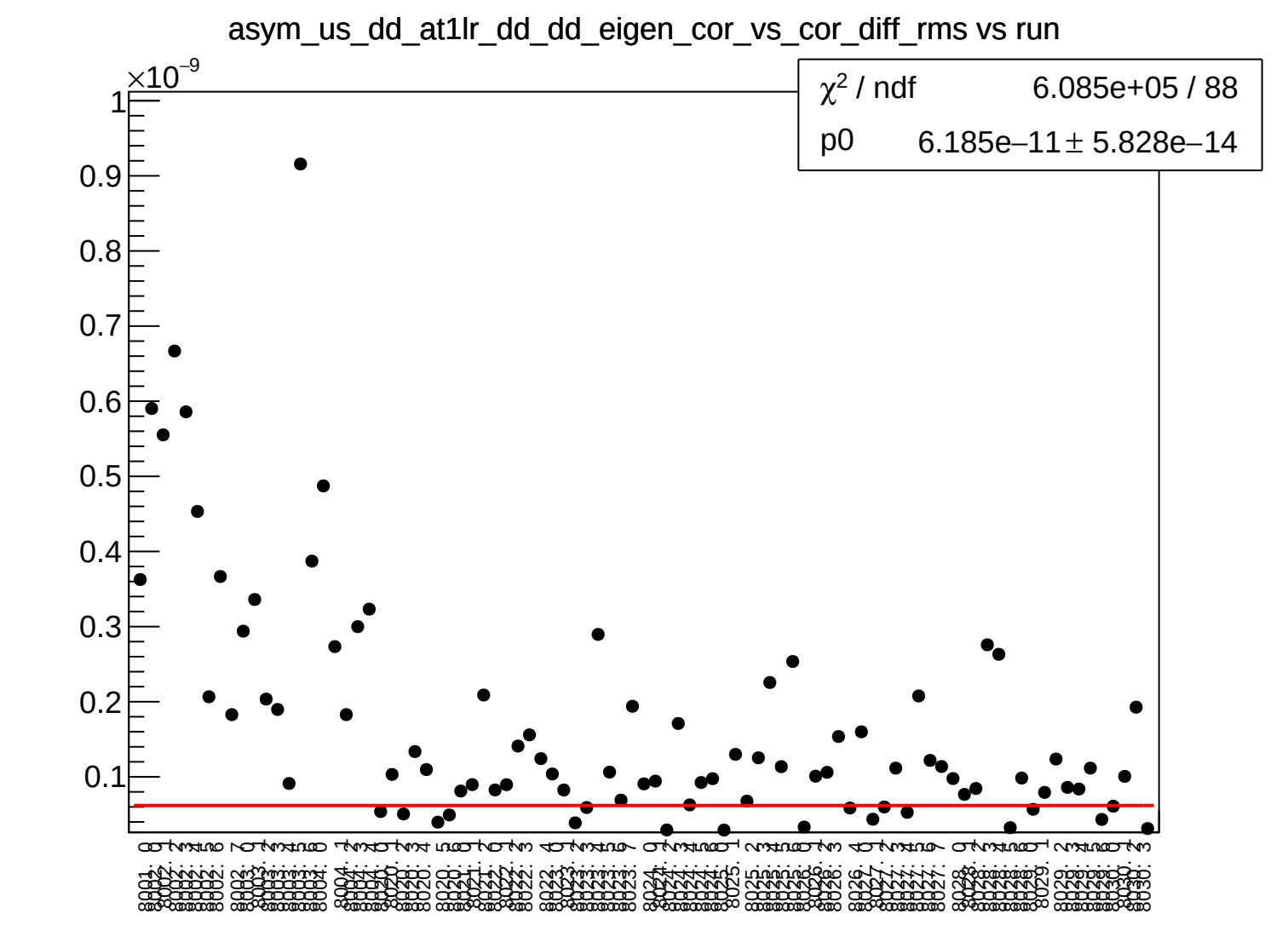

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.315e+05 / 88
p0 36.24 ± 0.02956
100
80
60
40
20

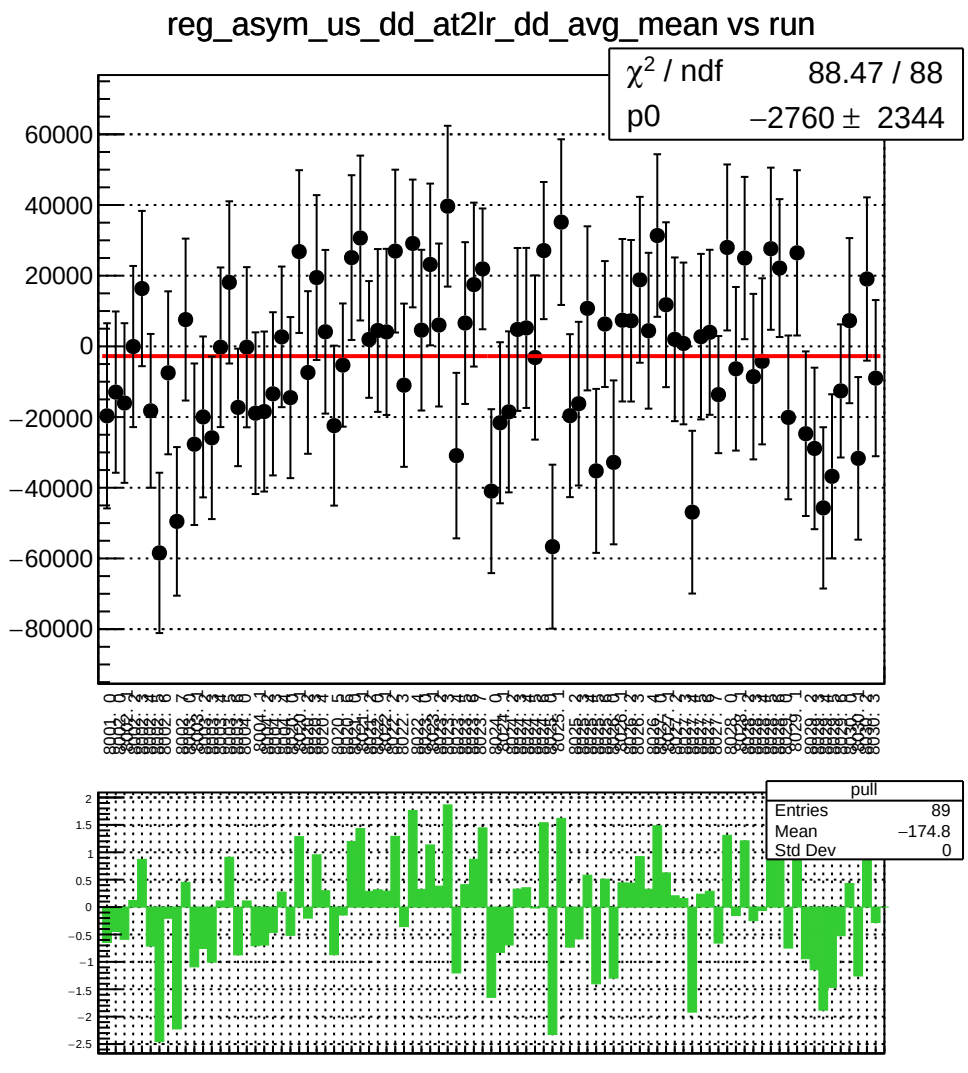

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.9 / 88
p0 −0.03766 ± 0.0418
pull
Entries 89
Mean −26.33
Std Dev 0
pull1D
Entries 89
Mean 0.02357
Std Dev 1.101

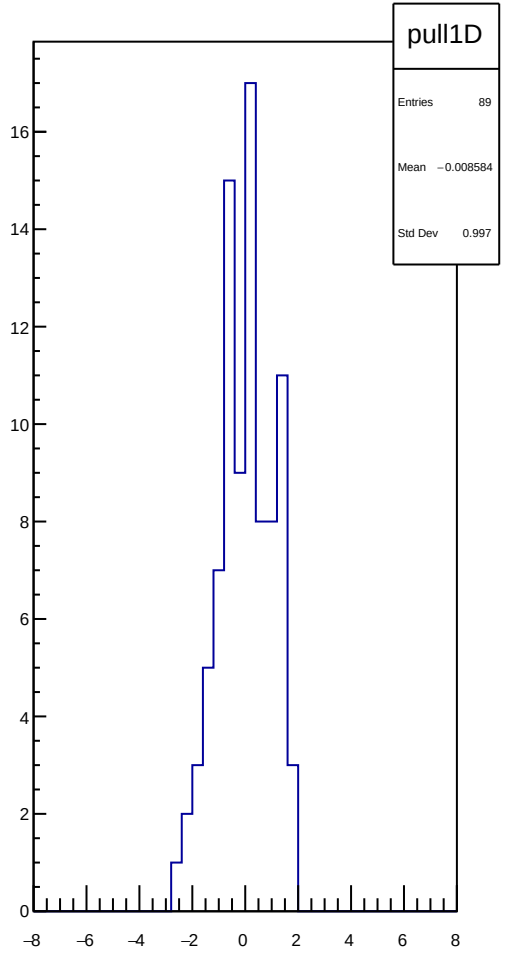

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.315e+05 / 88
p0 36.24 ± 0.02956
100
80
60
40
20

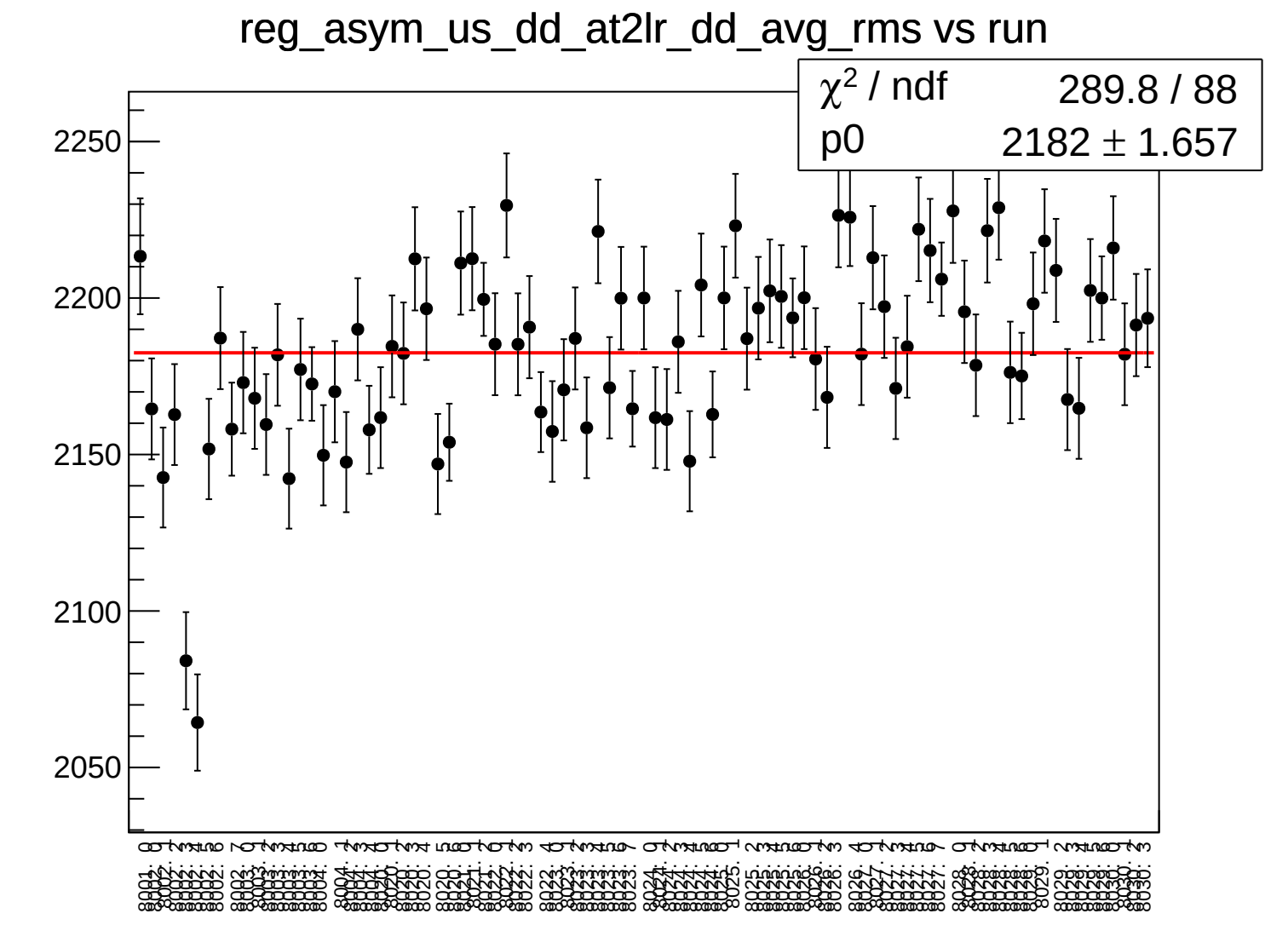

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.8 / 88
p0 −1.096e−13 ± 8.242e−14
pull
Entries 89
Mean 27.18
Std Dev 36.61

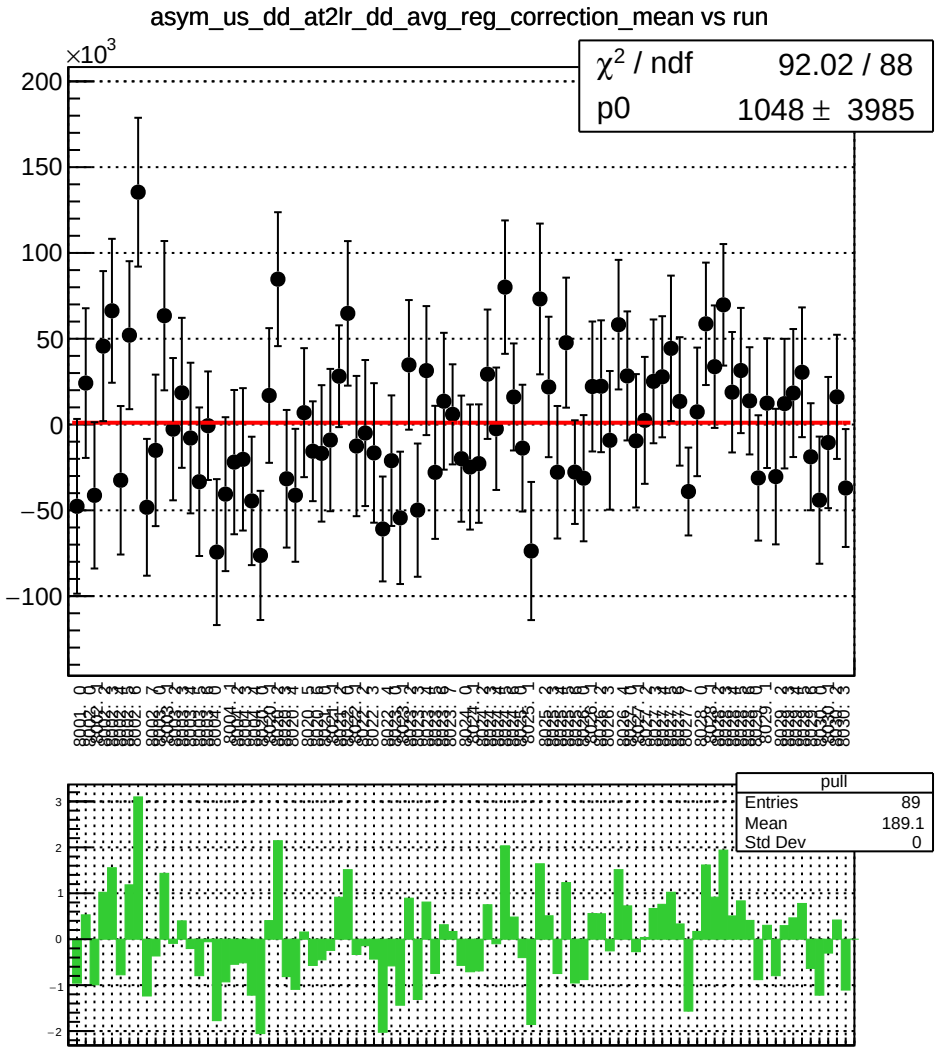

pull1D
Entries 89
Mean 0.08955
Std Dev 1.055

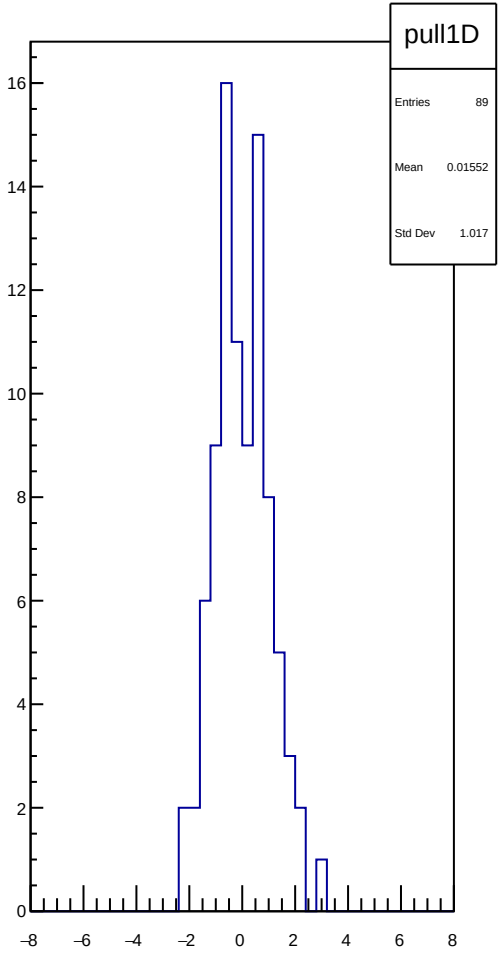

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.085e+05 / 88
p0 6.185e−11 ± 5.828e−14
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

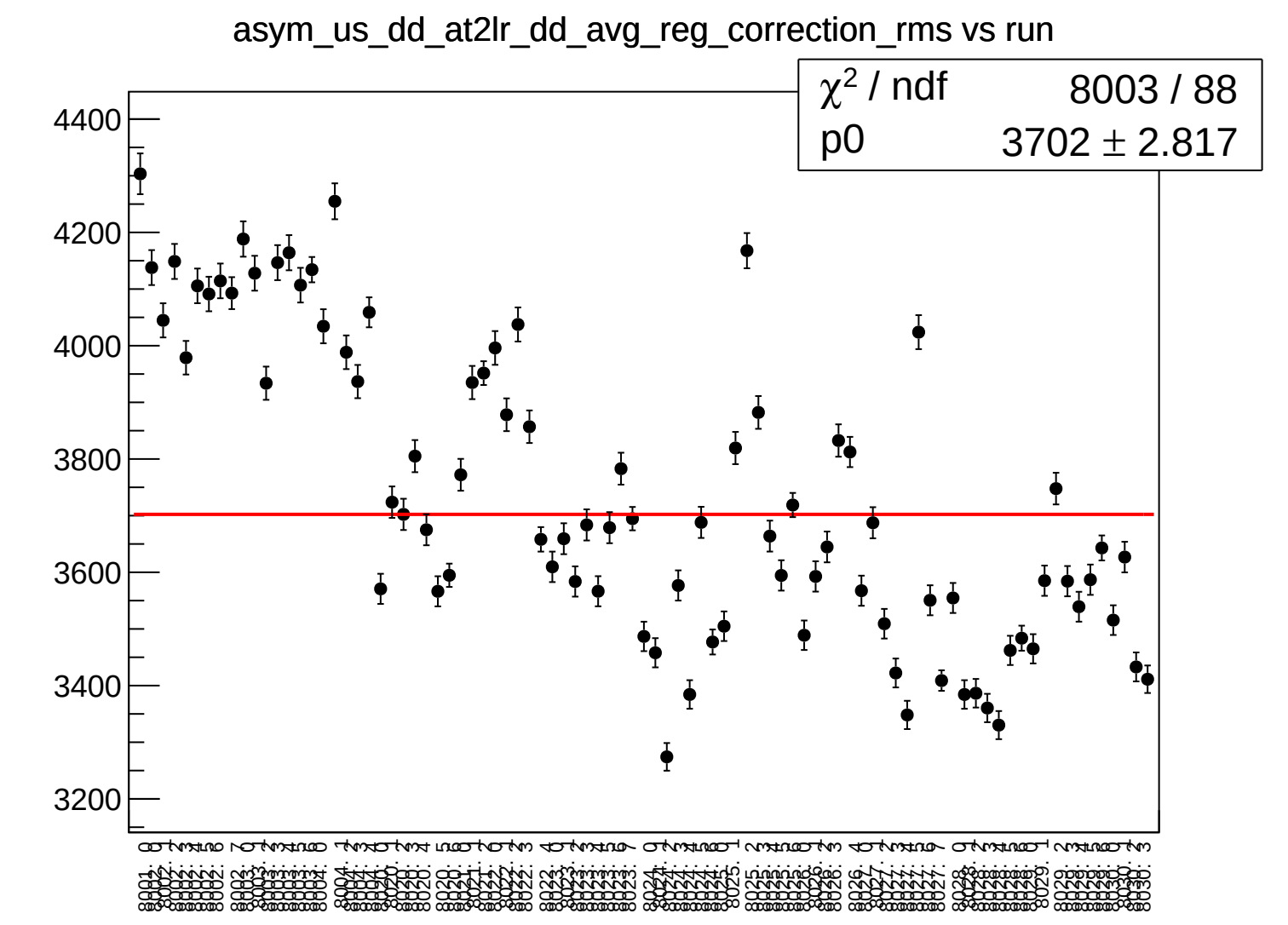

reg_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 88.47 / 88
p0 −2760 ± 2344
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −174.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

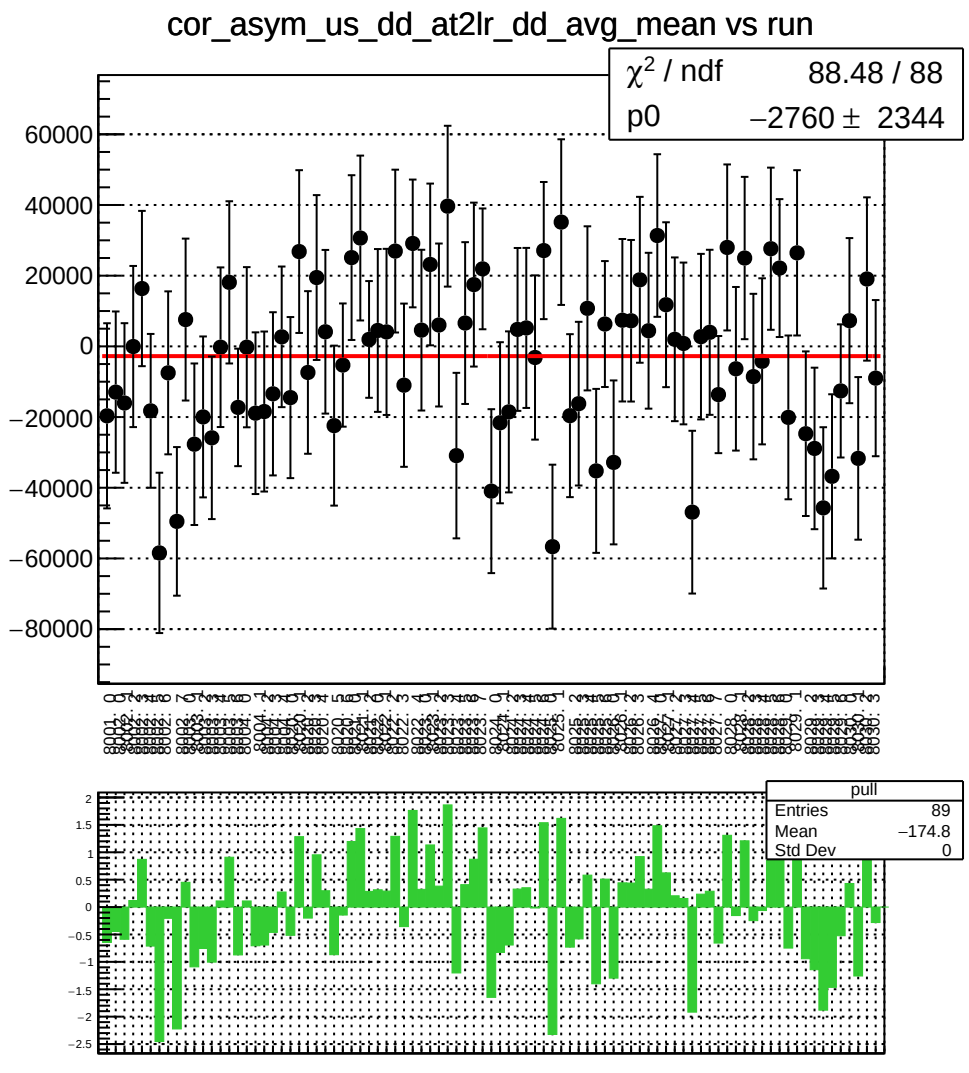

pull1D
Entries 89
Mean −0.008584
Std Dev 0.997
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

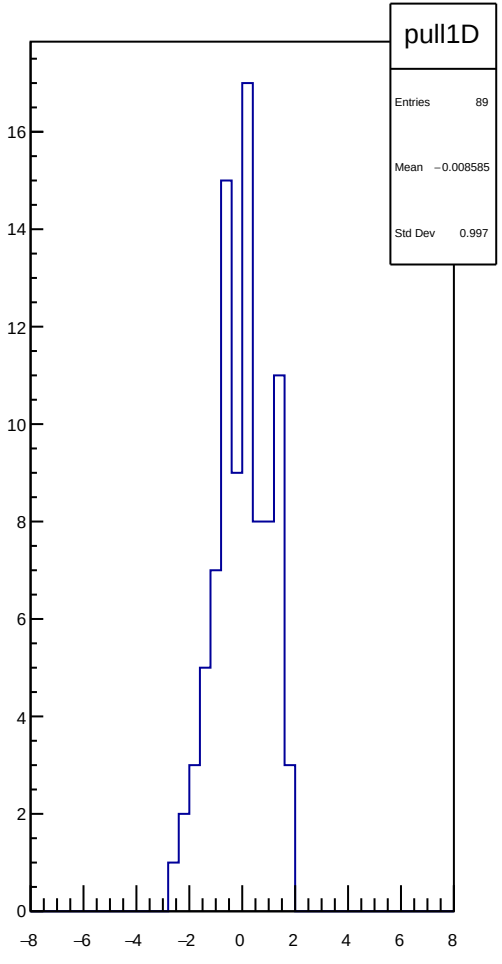

reg_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 289.8 / 88
p0 2182 ± 1.657
2250
2200
2150
2100
2050

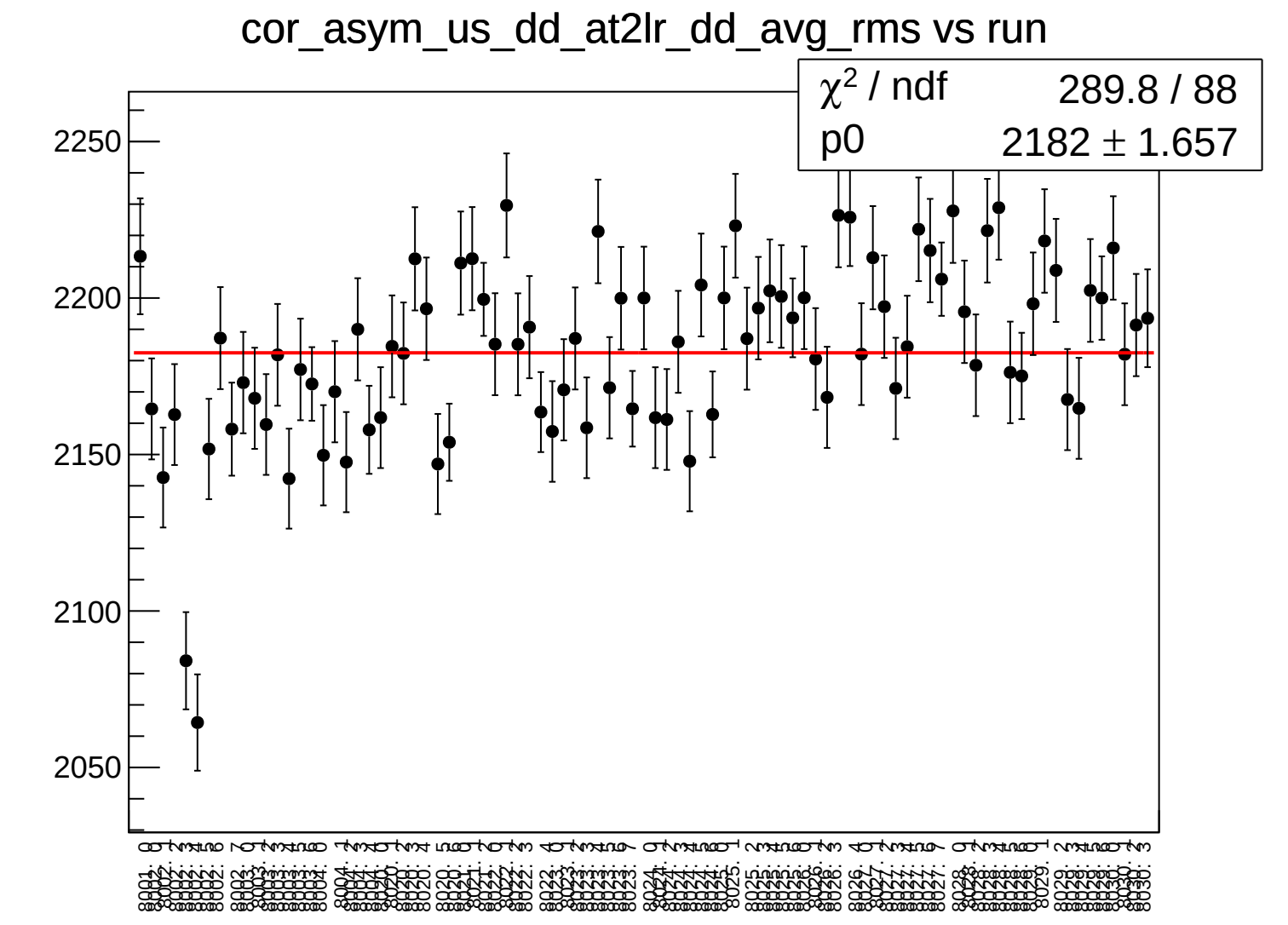

asym_us_dd_at2lr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 92.02 / 88
p0 1048 ± 3985
pull
Entries 89
Mean 189.1
Std Dev 0

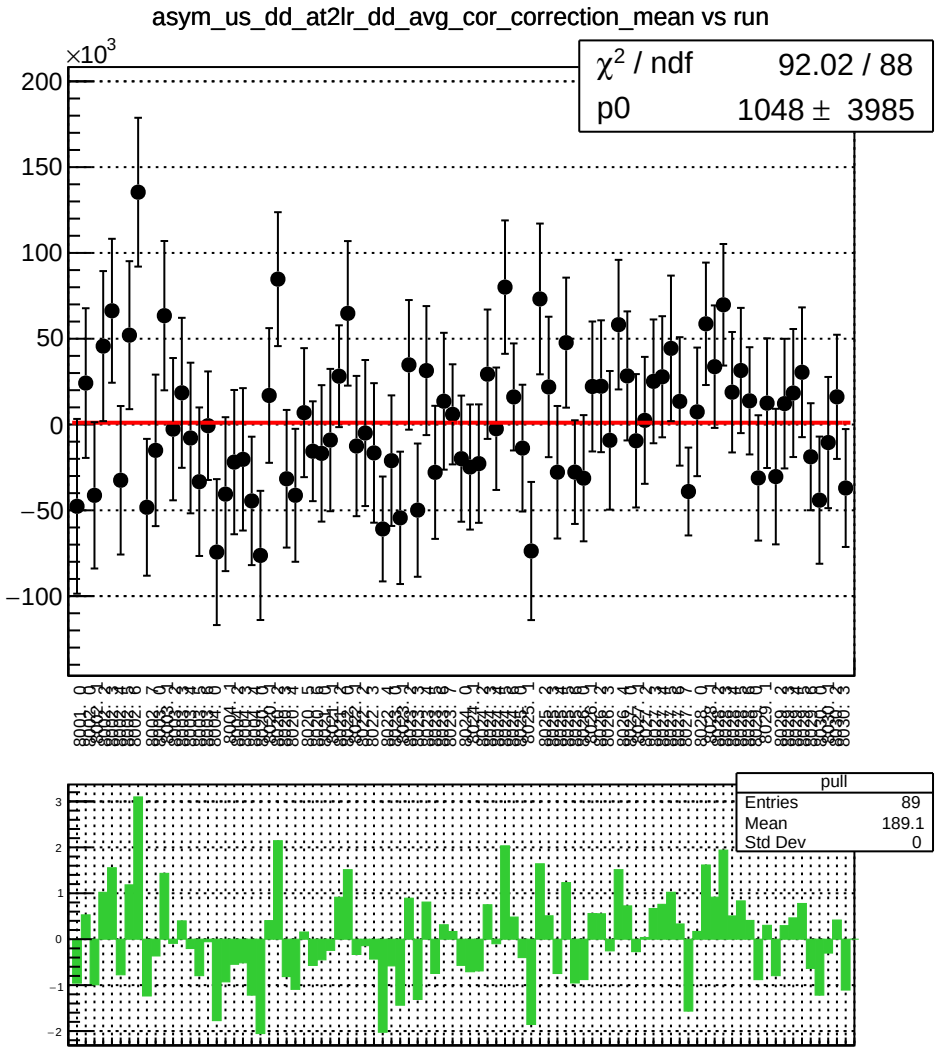

pull1D
Entries 89
Mean 0.01552
Std Dev 1.017

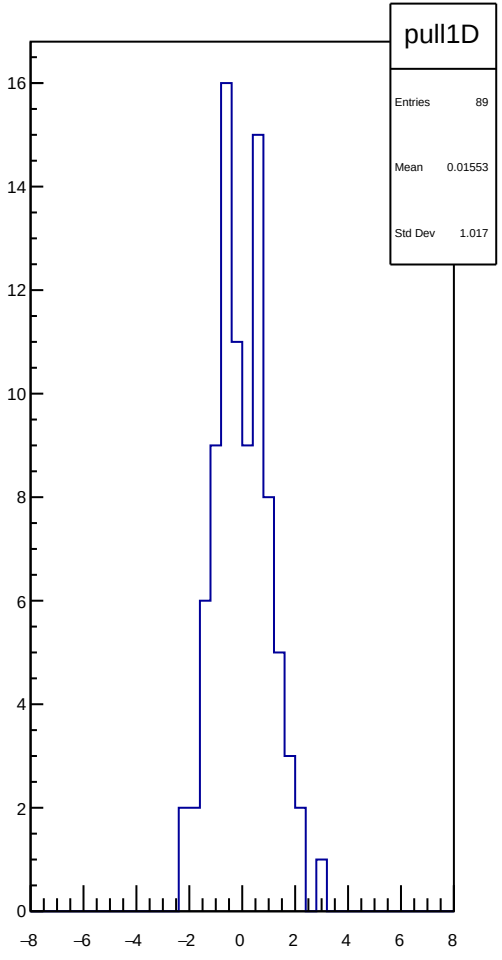

asym_us_dd_at2lr_dd_avg_reg_correction_rms vs run
χ² / ndf 8003 / 88
p0 3702 ± 2.817
4400
4200
4000
3800
3600
3400
3200

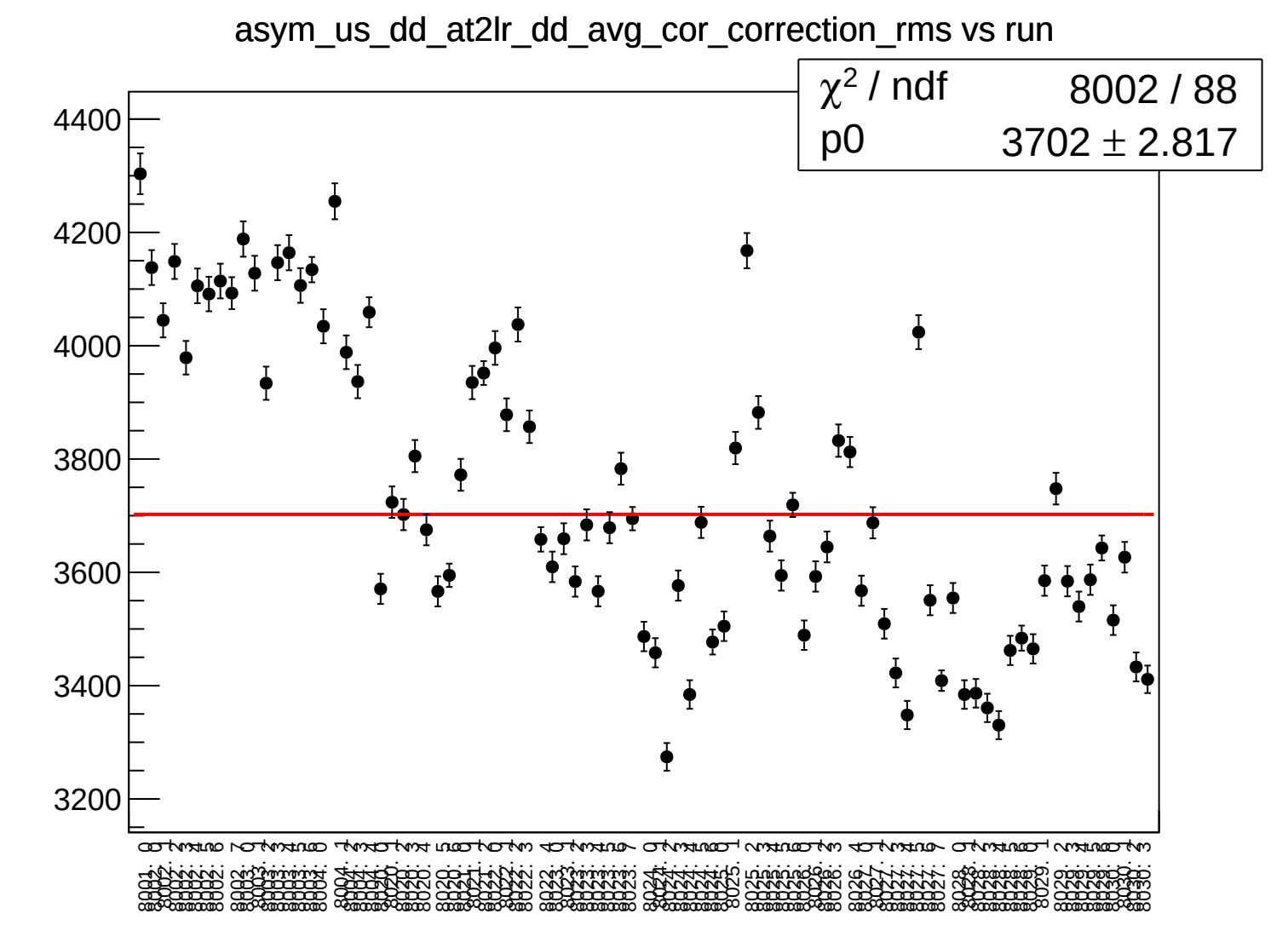

cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 88.48 / 88
p0 −2760 ± 2344
pull
Entries 89
Mean −174.8
Std Dev 0

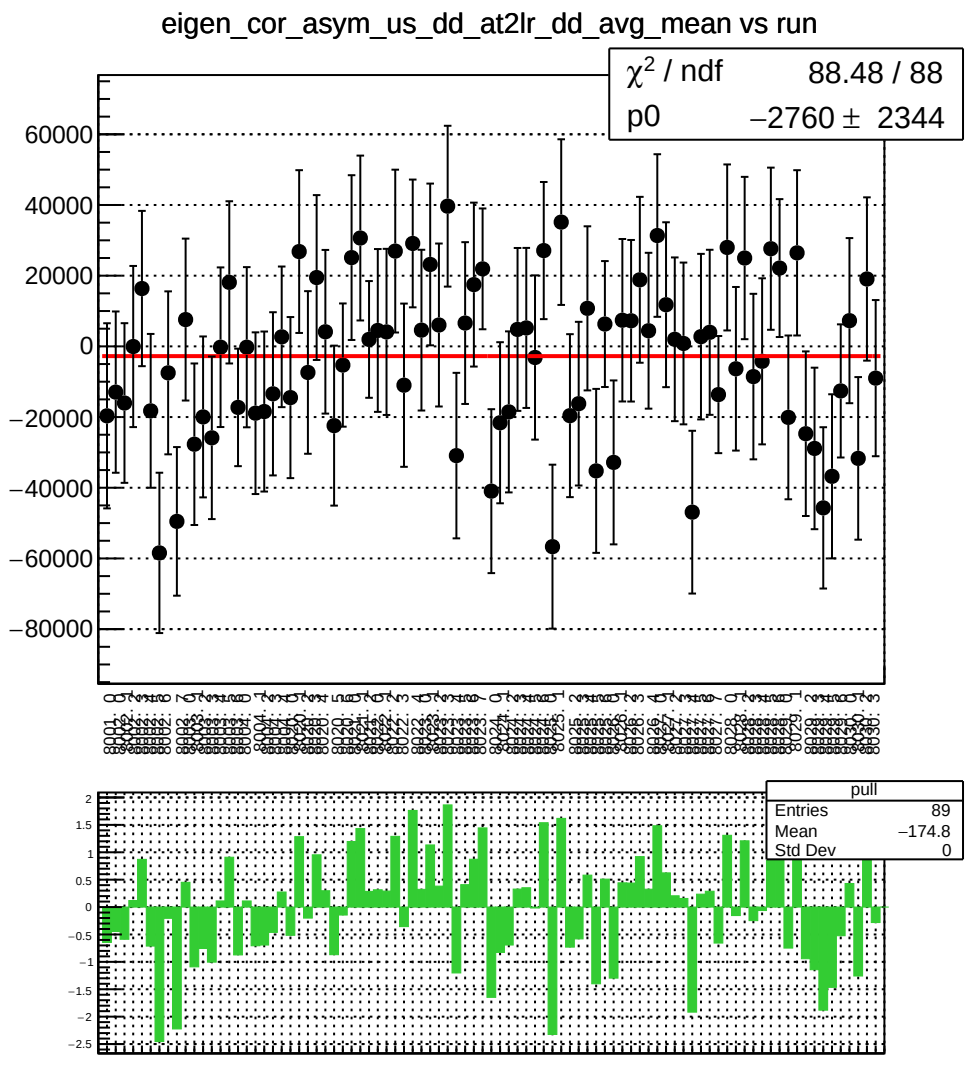

pull1D
Entries 89
Mean −0.008585
Std Dev 0.997

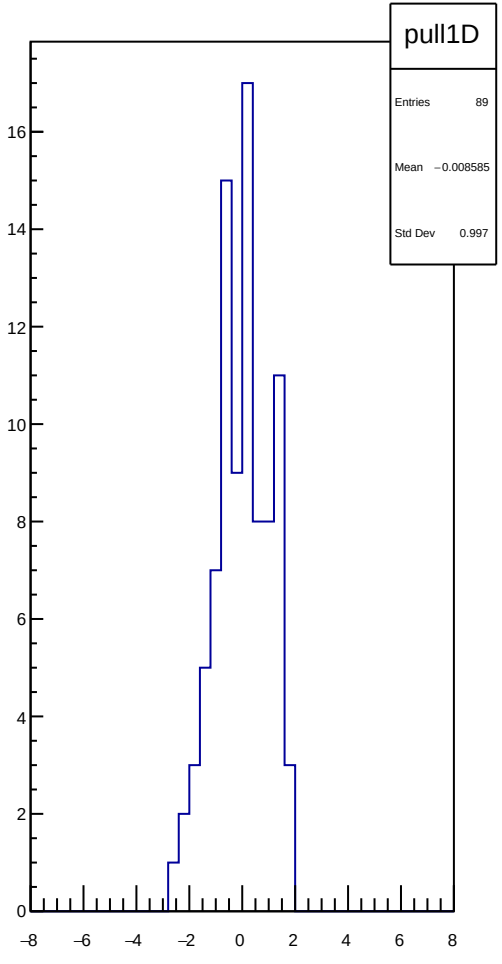

cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 289.8 / 88
p0 2182 ± 1.657
2250
2200
2150
2100
2050

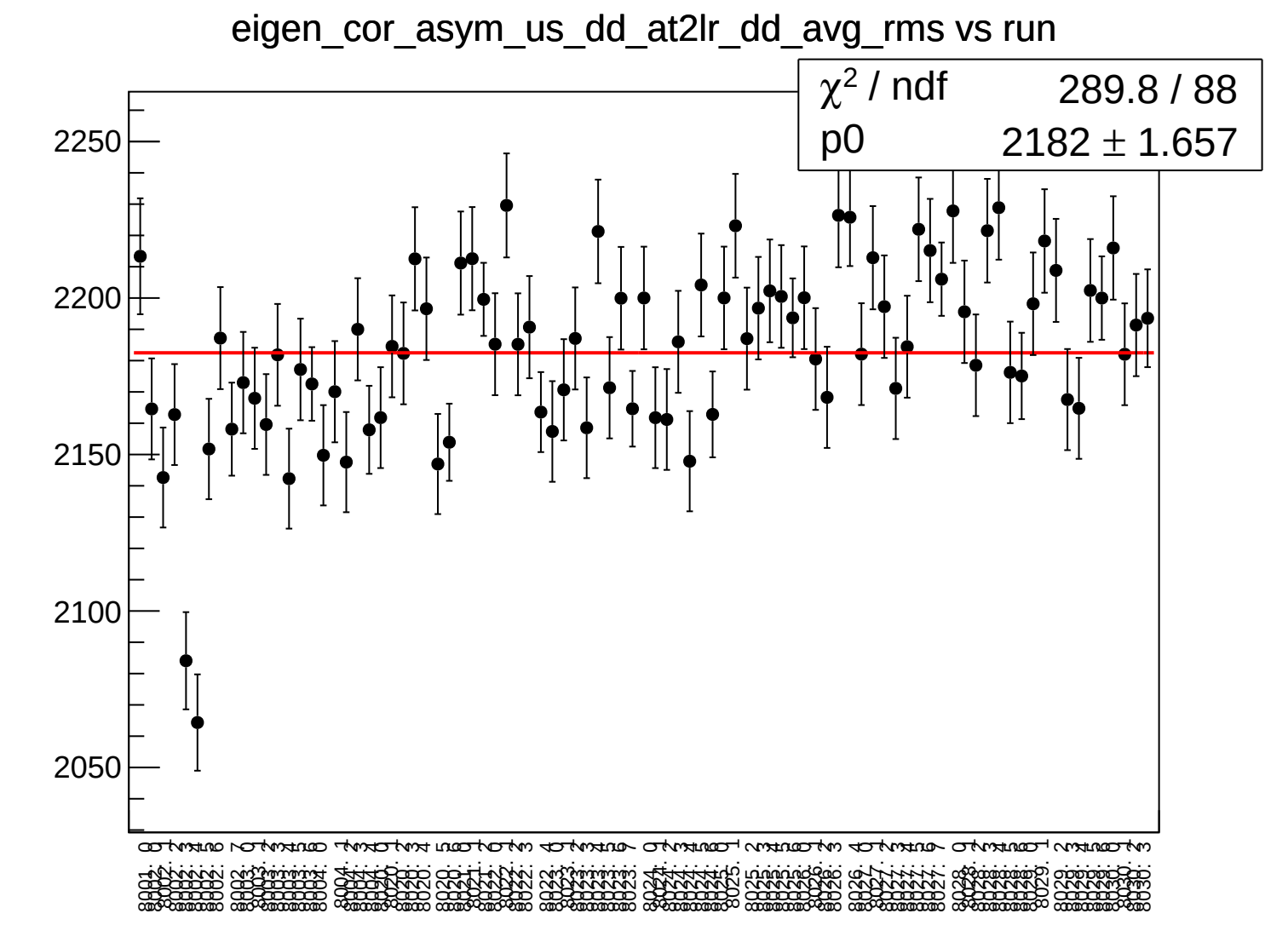

asym_us_dd_at2lr_dd_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 92.02 / 88
p0 1048 ± 3985
pull
Entries 89
Mean 189.1
Std Dev 0


pull1D
Entries 89
Mean 0.01553
Std Dev 1.017

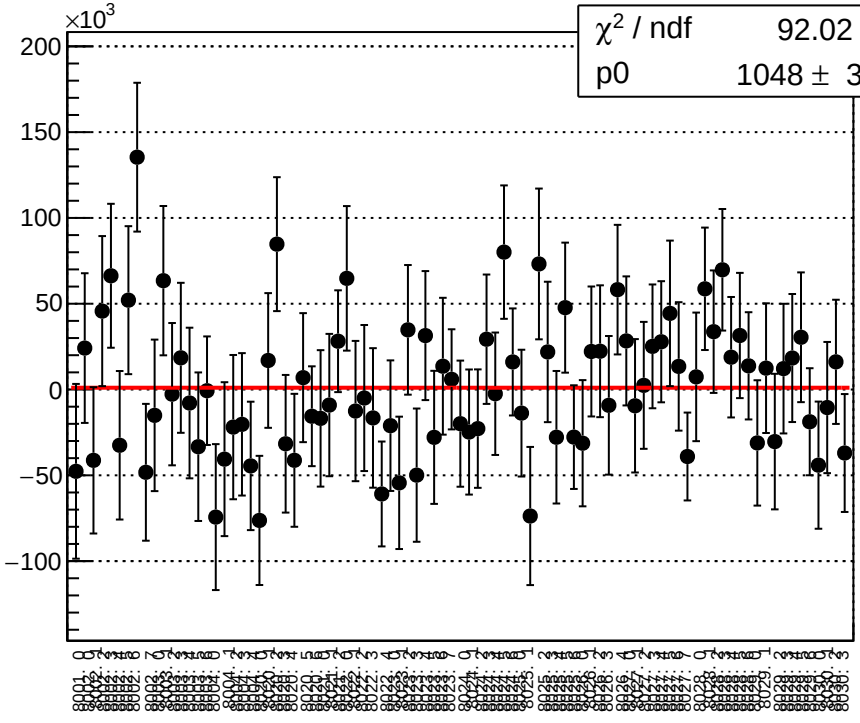

asym_us_dd_at2lr_dd_avg_cor_correction_rms vs run
χ² / ndf 8002 / 88
p0 3702 ± 2.817
4400
4200
4000
3800
3600
3400
3200

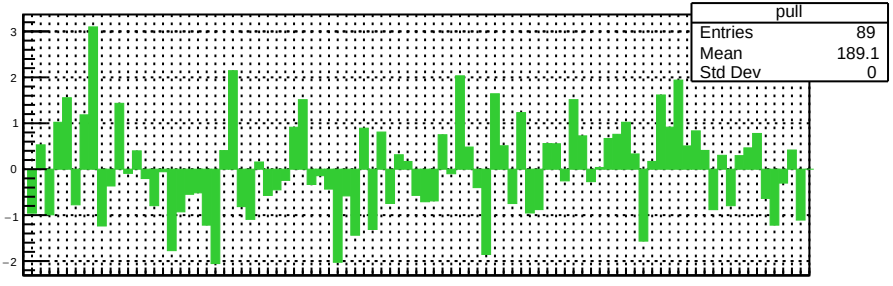

eigen_cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 88.48 / 88
p0 −2760 ± 2344
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −174.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

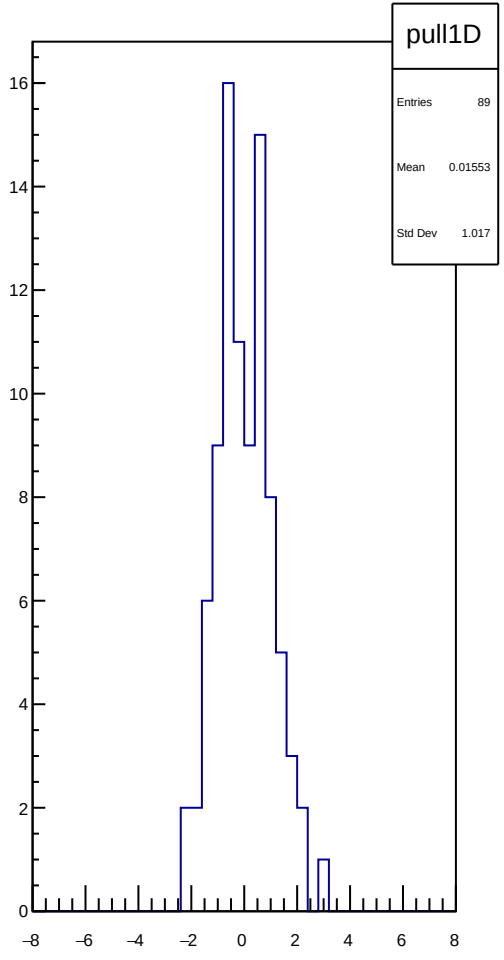

pull1D
Entries 89
Mean −0.008585
Std Dev 0.997
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

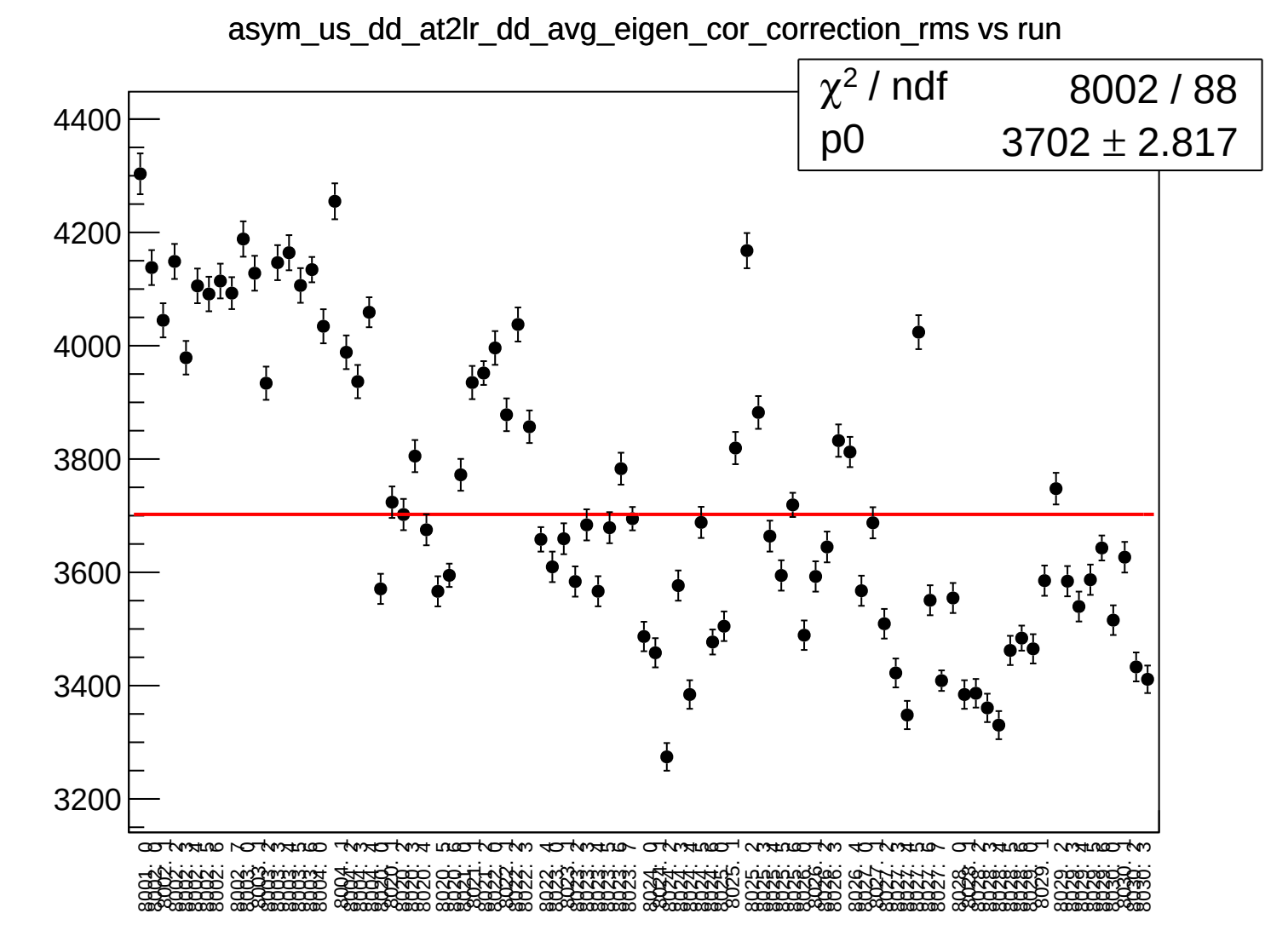

eigen_cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ^2 / ndf 289.8 / 88
p0 2182 ± 1.657
2250
2200
2150
2100
2050

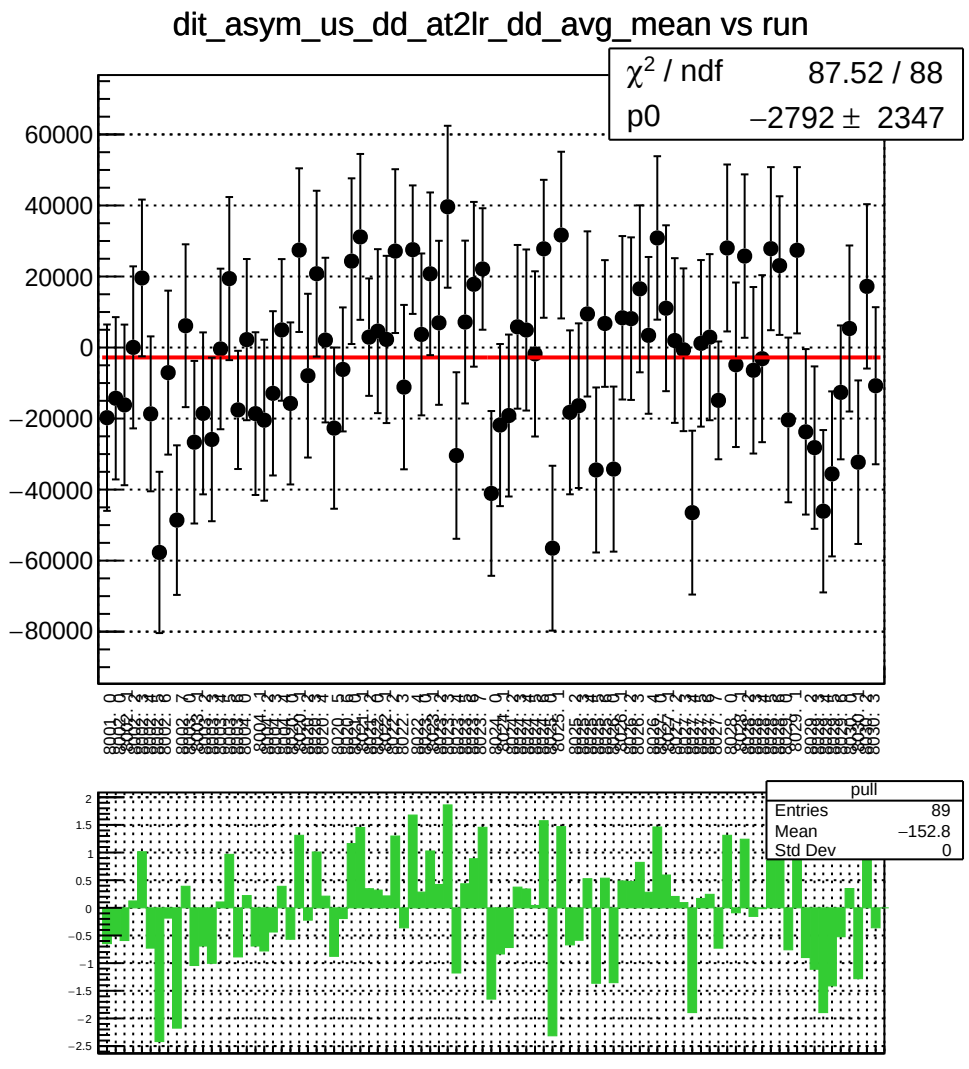
asym_us_dd_at2lr_dd_avg_eigen_cor_correction_mean vs run

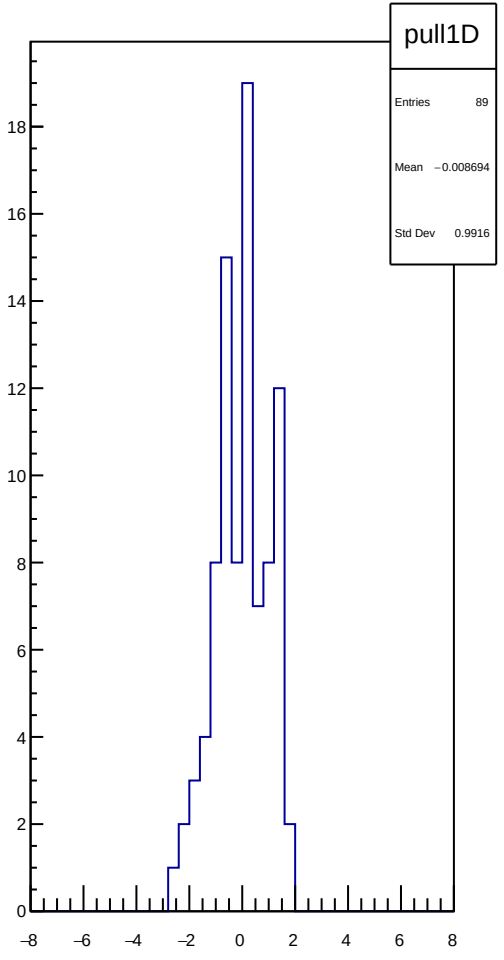


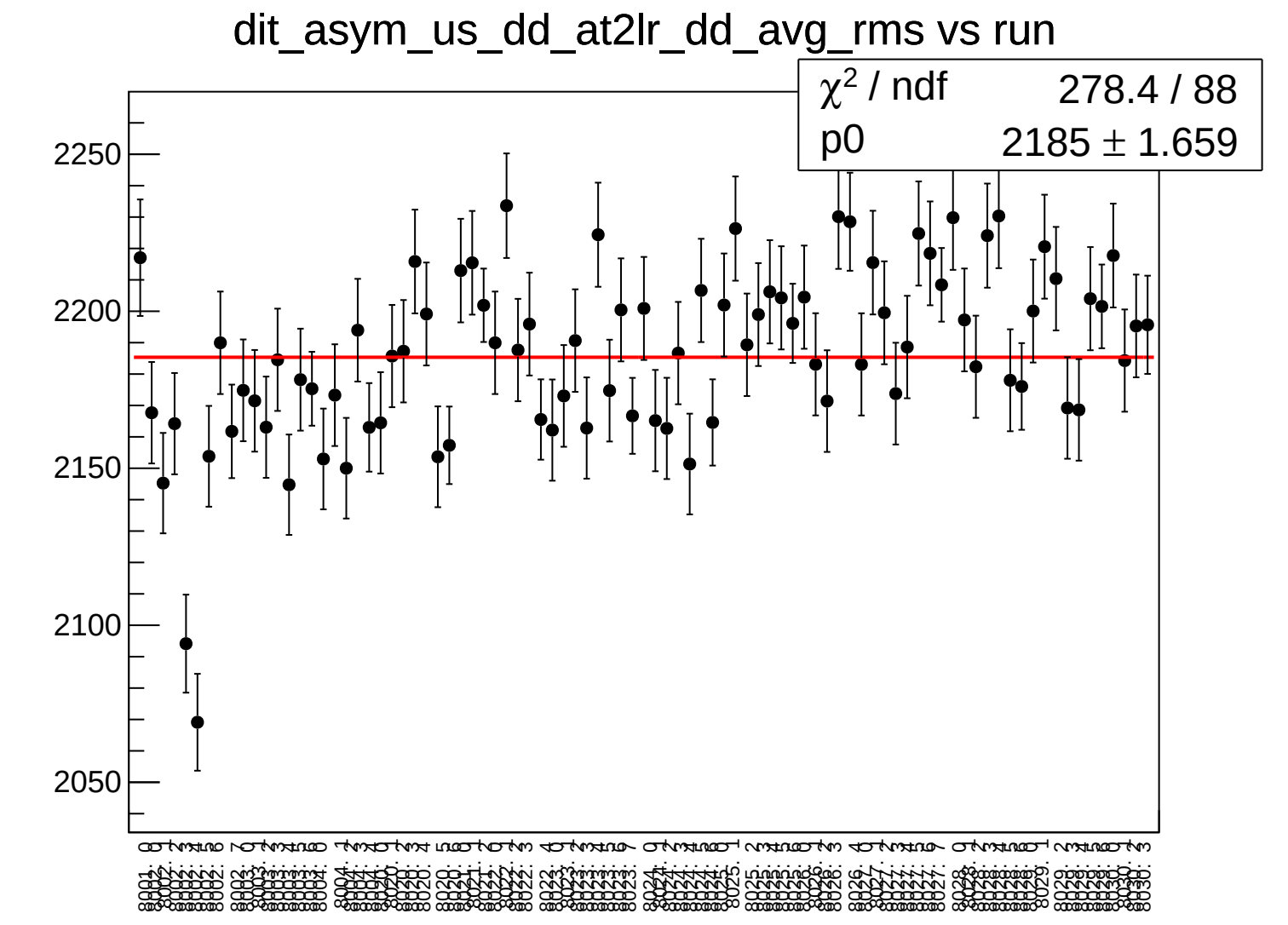


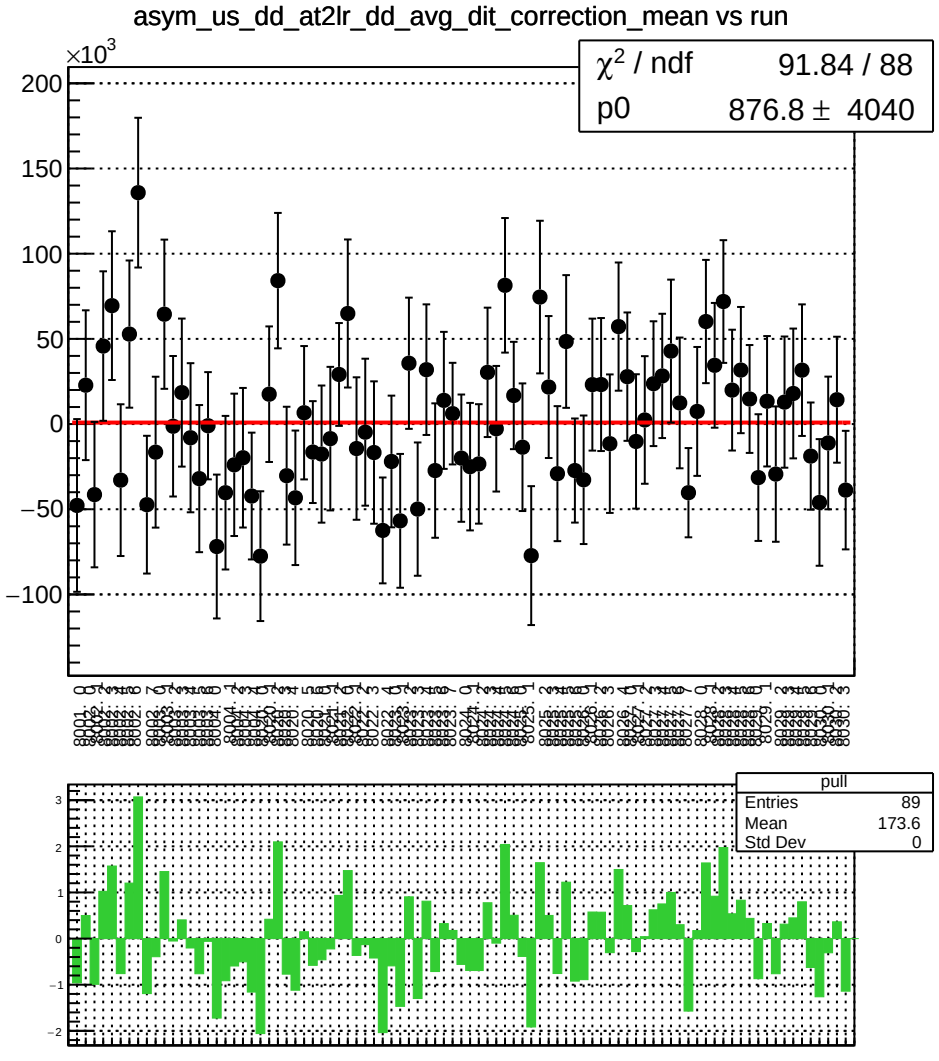


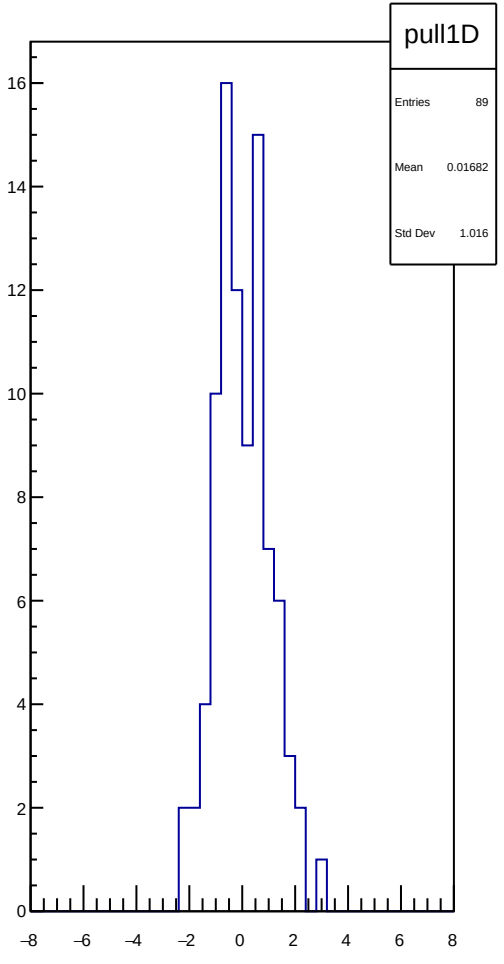

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 8002 / 88
p0 3702 ± 2.817
4400
4200
4000
3800
3600
3400
3200

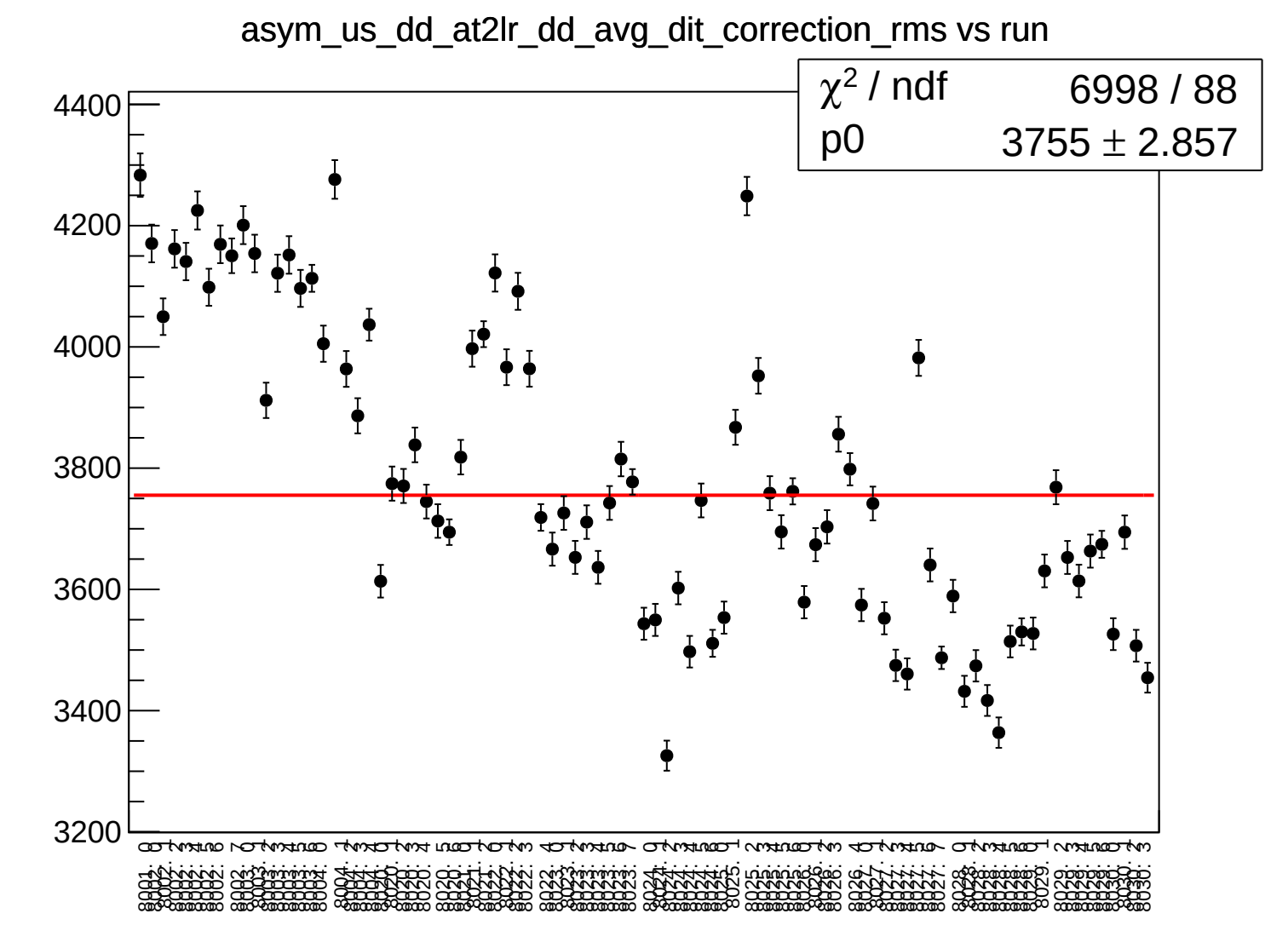

dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 87.52 / 88
p0 −2792 ± 2347
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −152.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

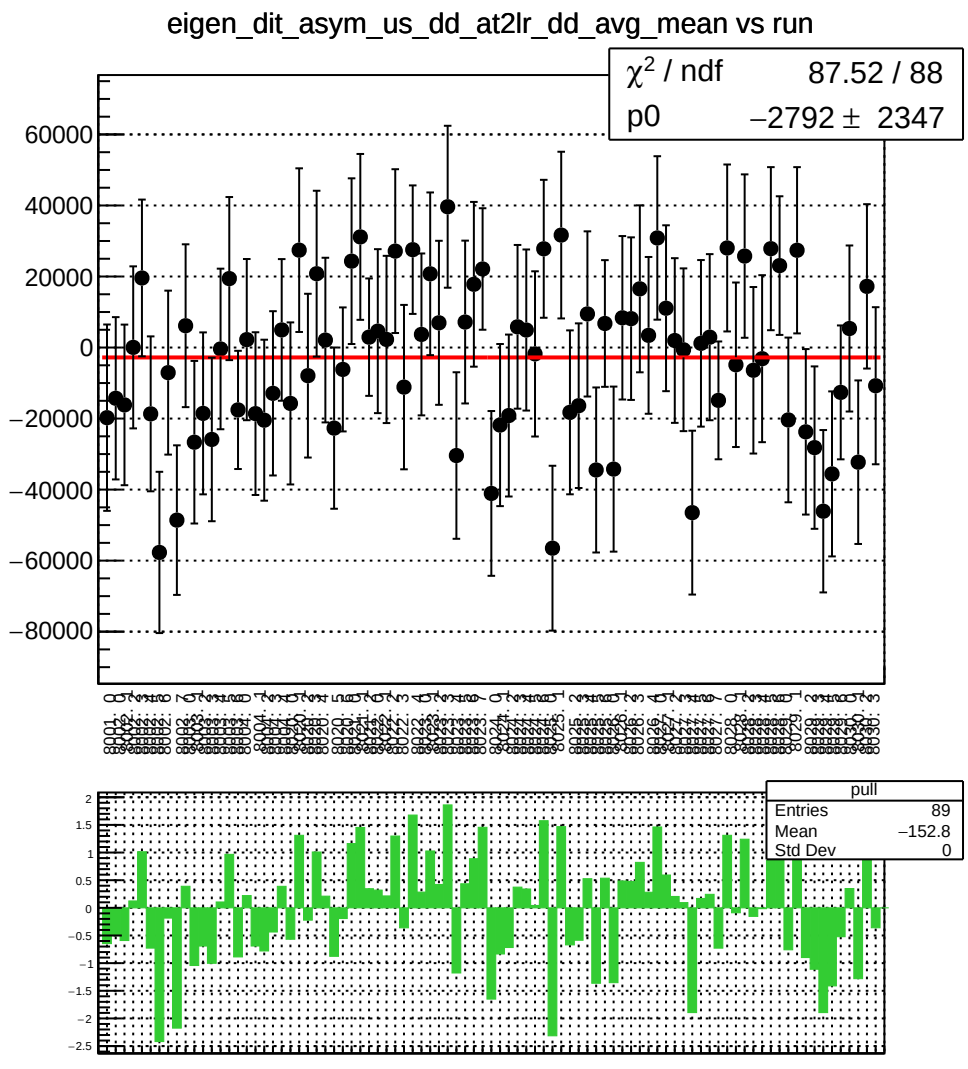

pull1D
Entries 89
Mean −0.008694
Std Dev 0.9916
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

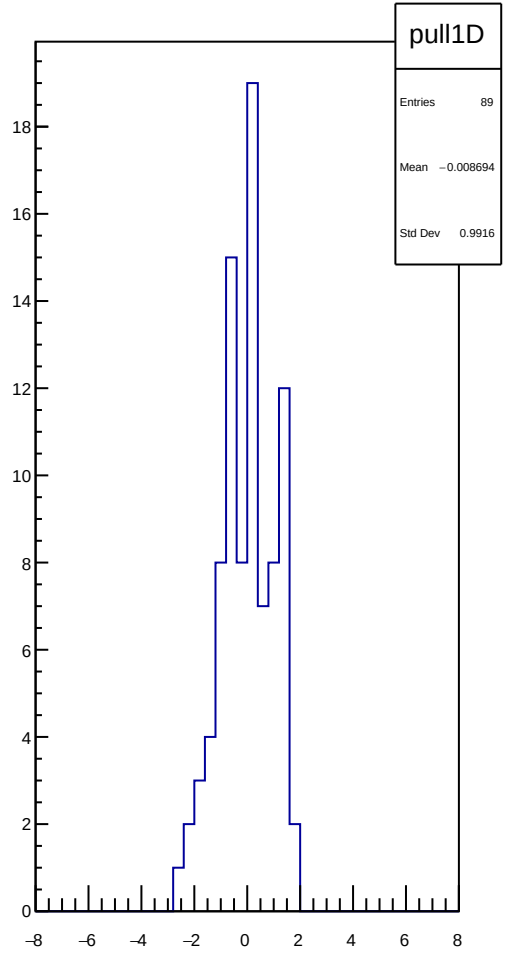

dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 278.4 / 88
p0 2185 ± 1.659
2250
2200
2150
2100
2050

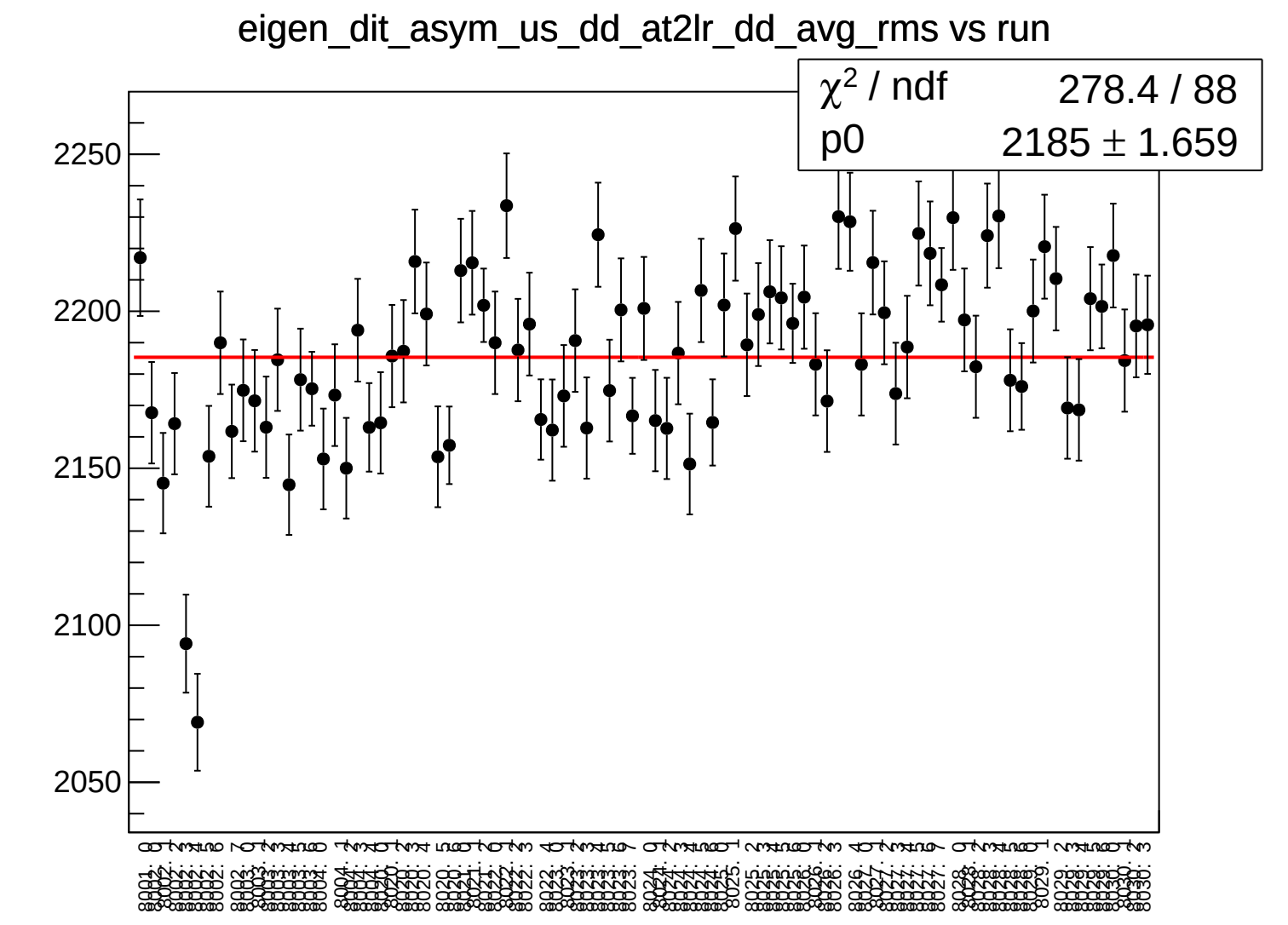

asym_us_dd_at2lr_dd_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 91.84 / 88
p0 876.8 ± 4040
pull
Entries 89
Mean 173.6
Std Dev 0

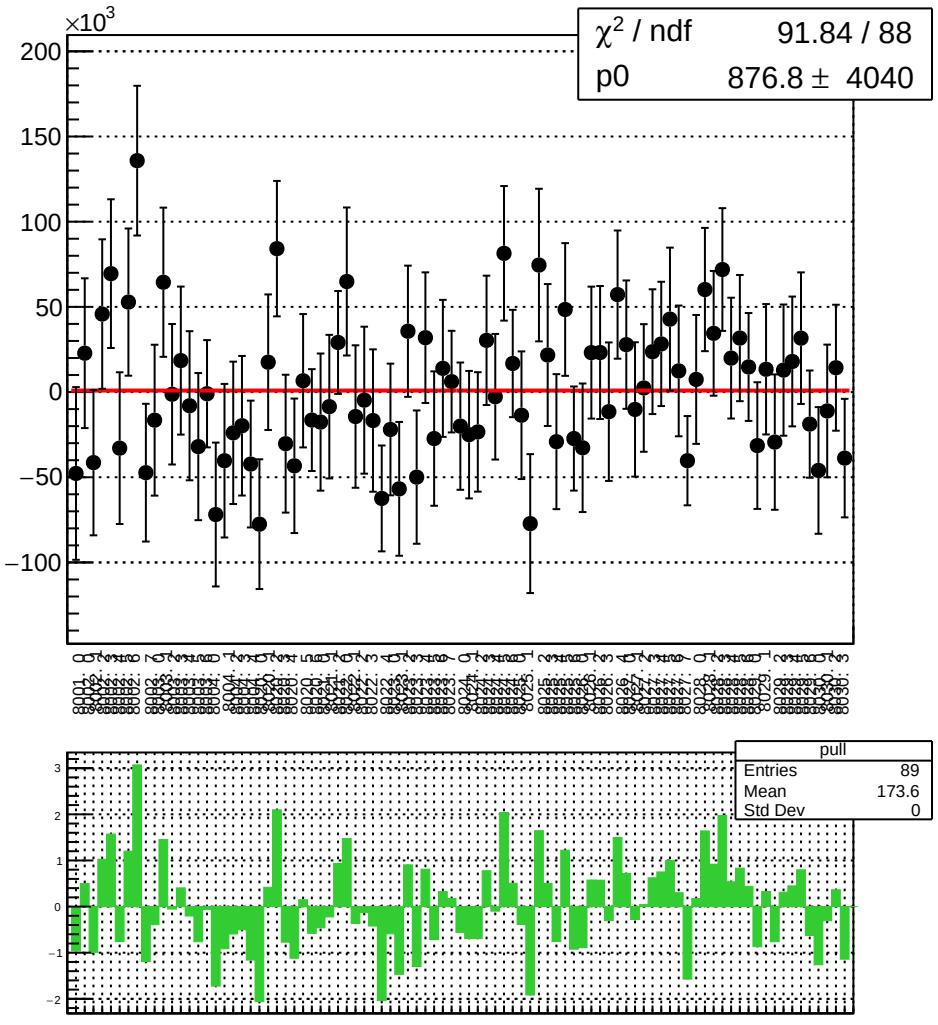

pull1D
Entries 89
Mean 0.01682
Std Dev 1.016

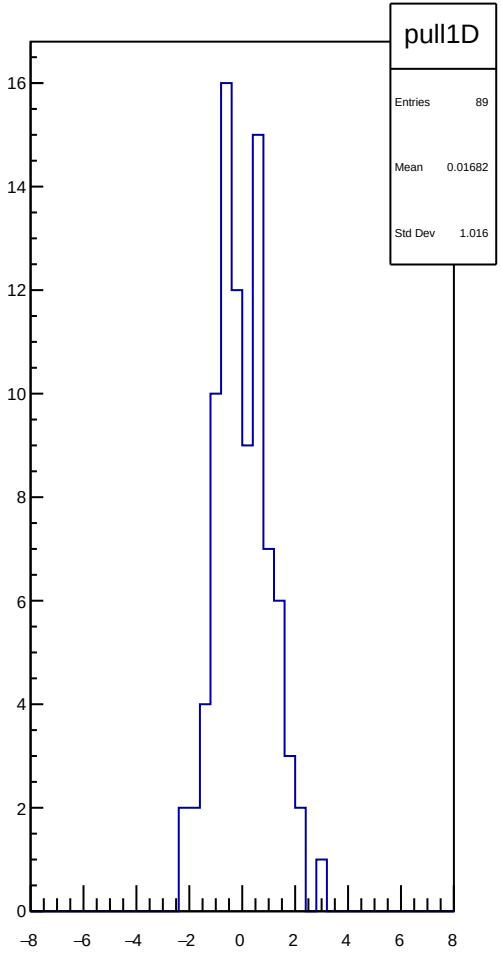

asym_us_dd_at2lr_dd_avg_dit_correction_rms vs run
χ² / ndf 6998 / 88
p0 3755 ± 2.857
4400
4200
4000
3800
3600
3400
3200

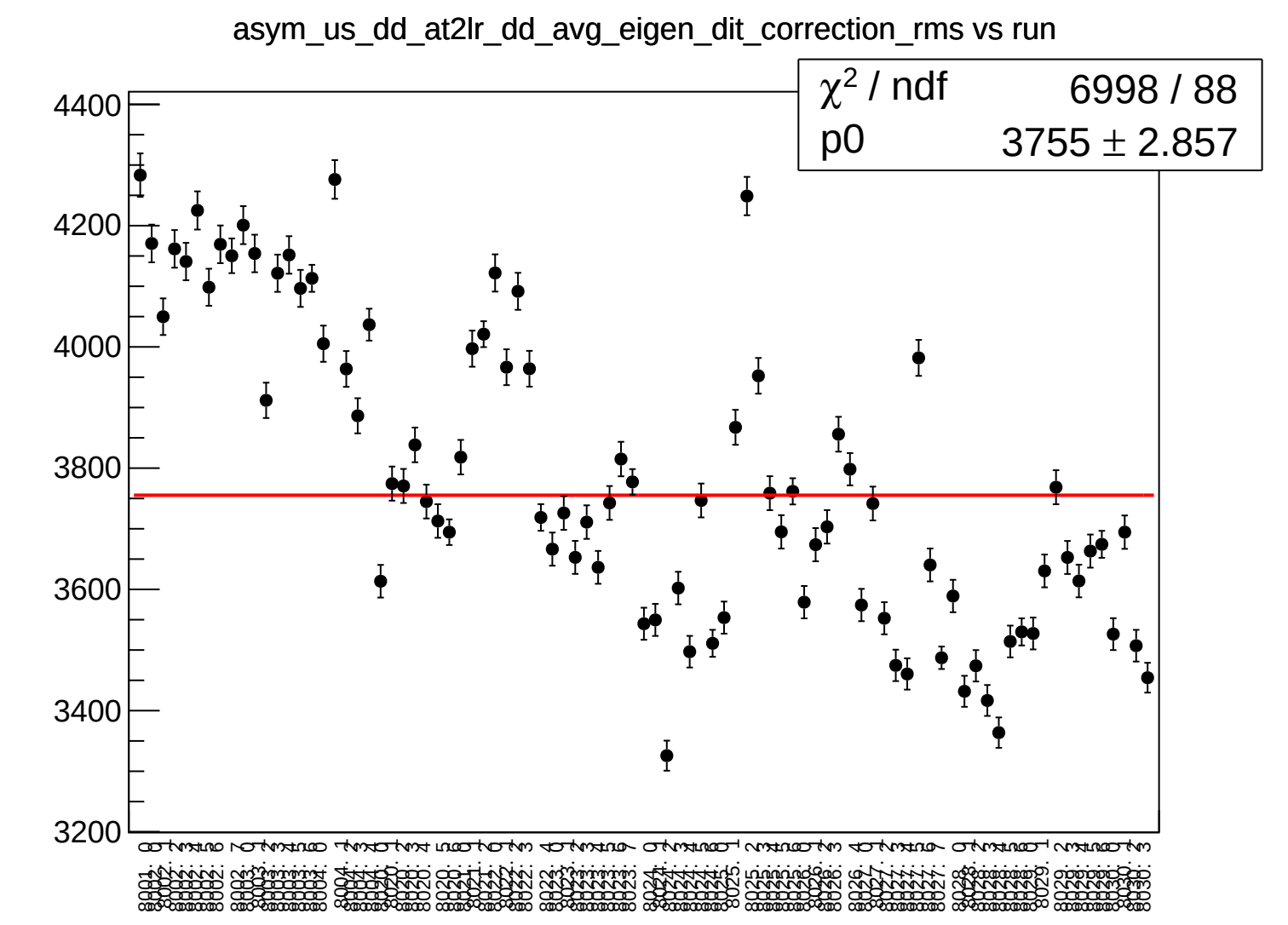

eigen_dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 87.52 / 88
p0 −2792 ± 2347
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −152.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

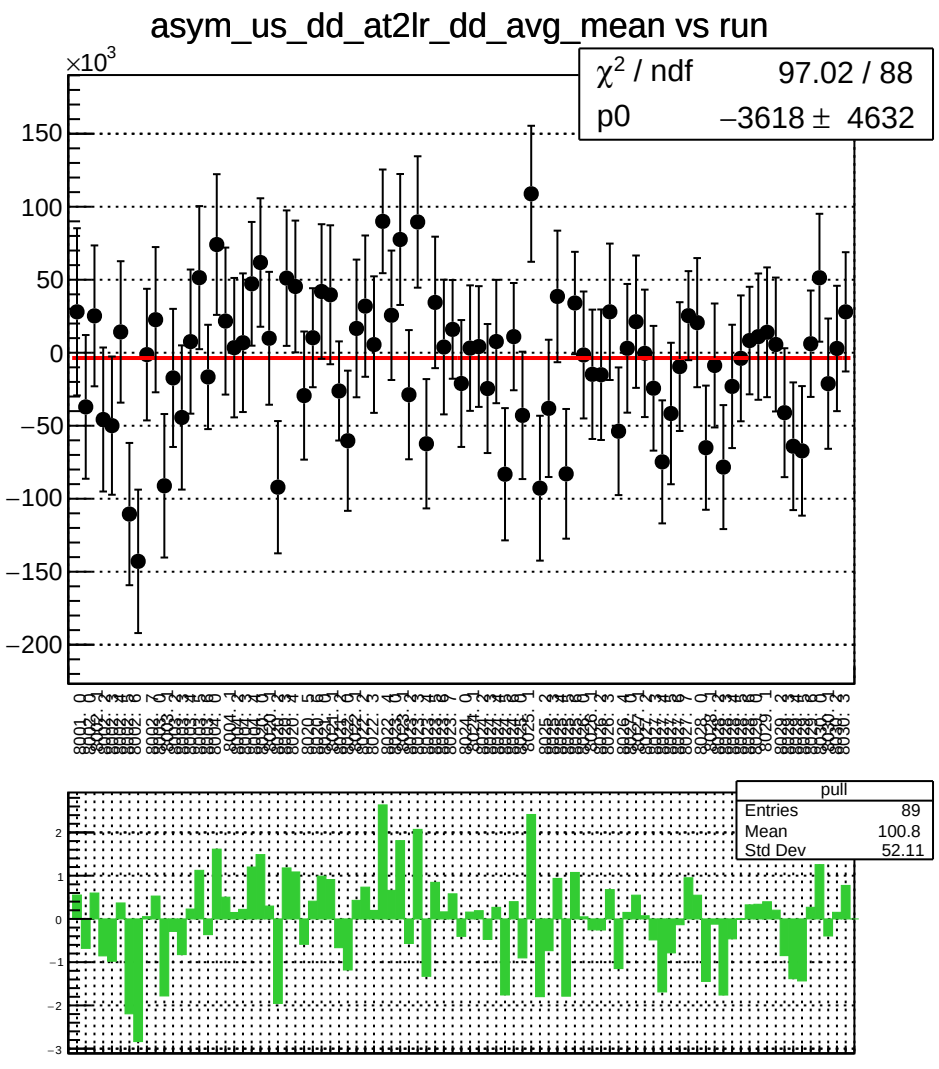

pull1D
Entries 89
Mean −0.008694
Std Dev 0.9916
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

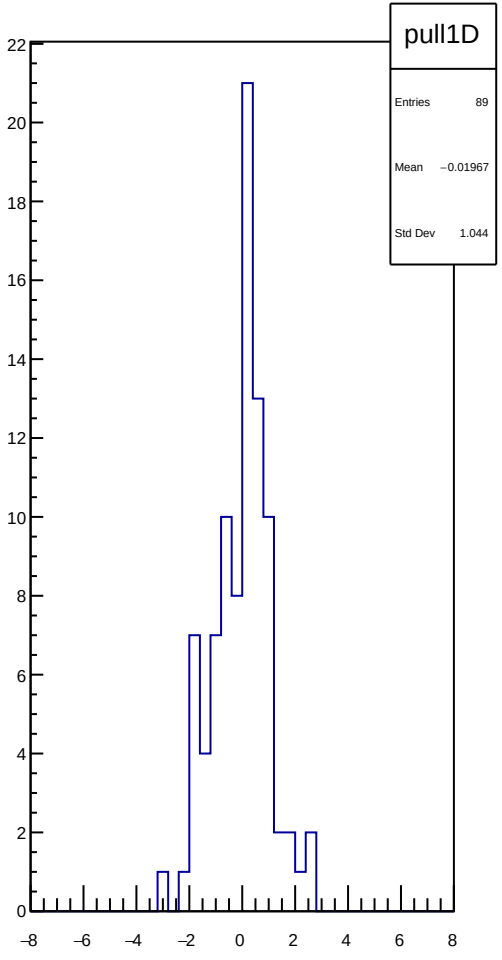

eigen_dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 278.4 / 88
p0 2185 ± 1.659
2250
2200
2150
2100
2050

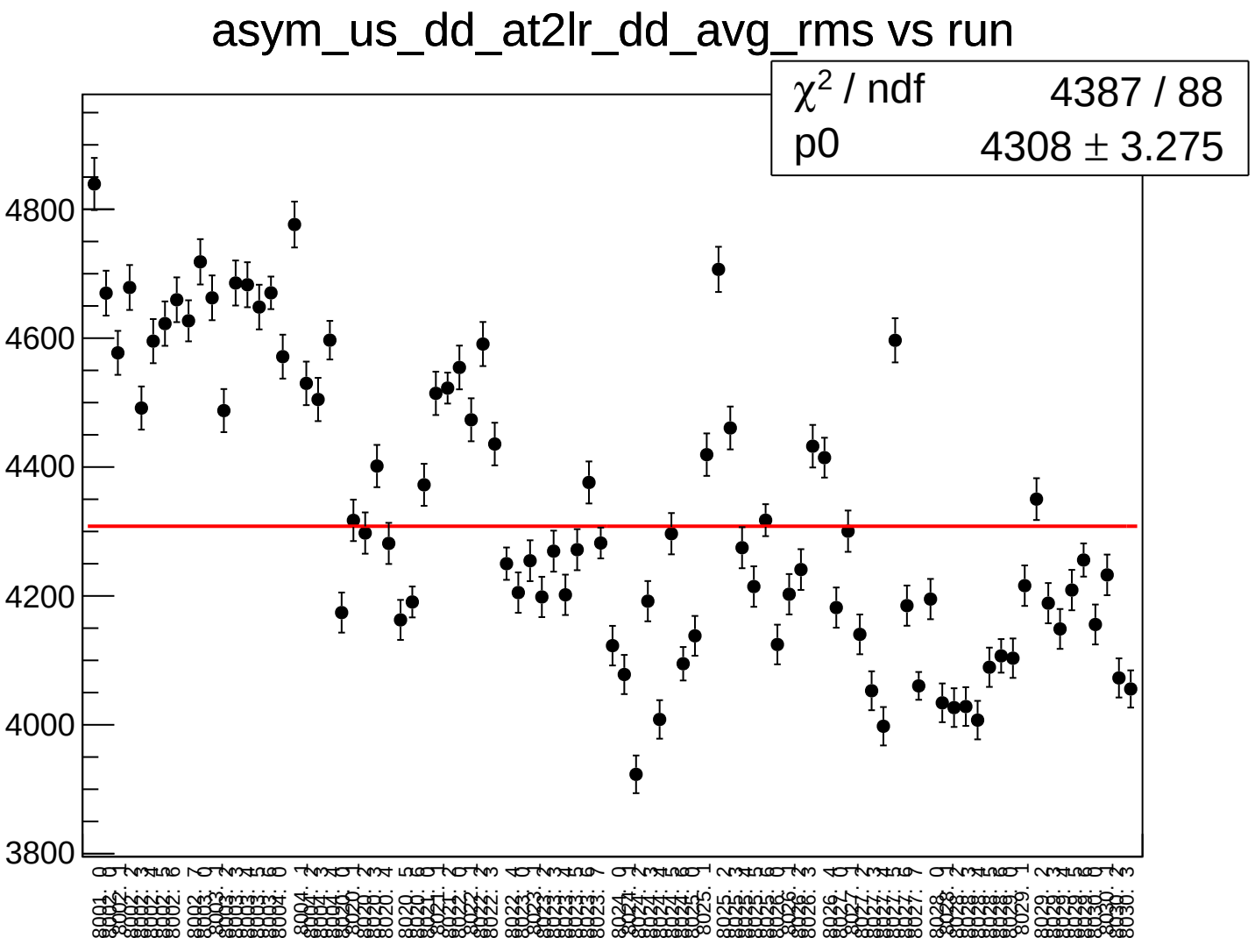

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 91.84 / 88
p0 876.8 ± 4040
200
150
100
50
0
−50
−100
pull
Entries 89
Mean 173.6
Std Dev 0
3
2
1
0
−1
−2

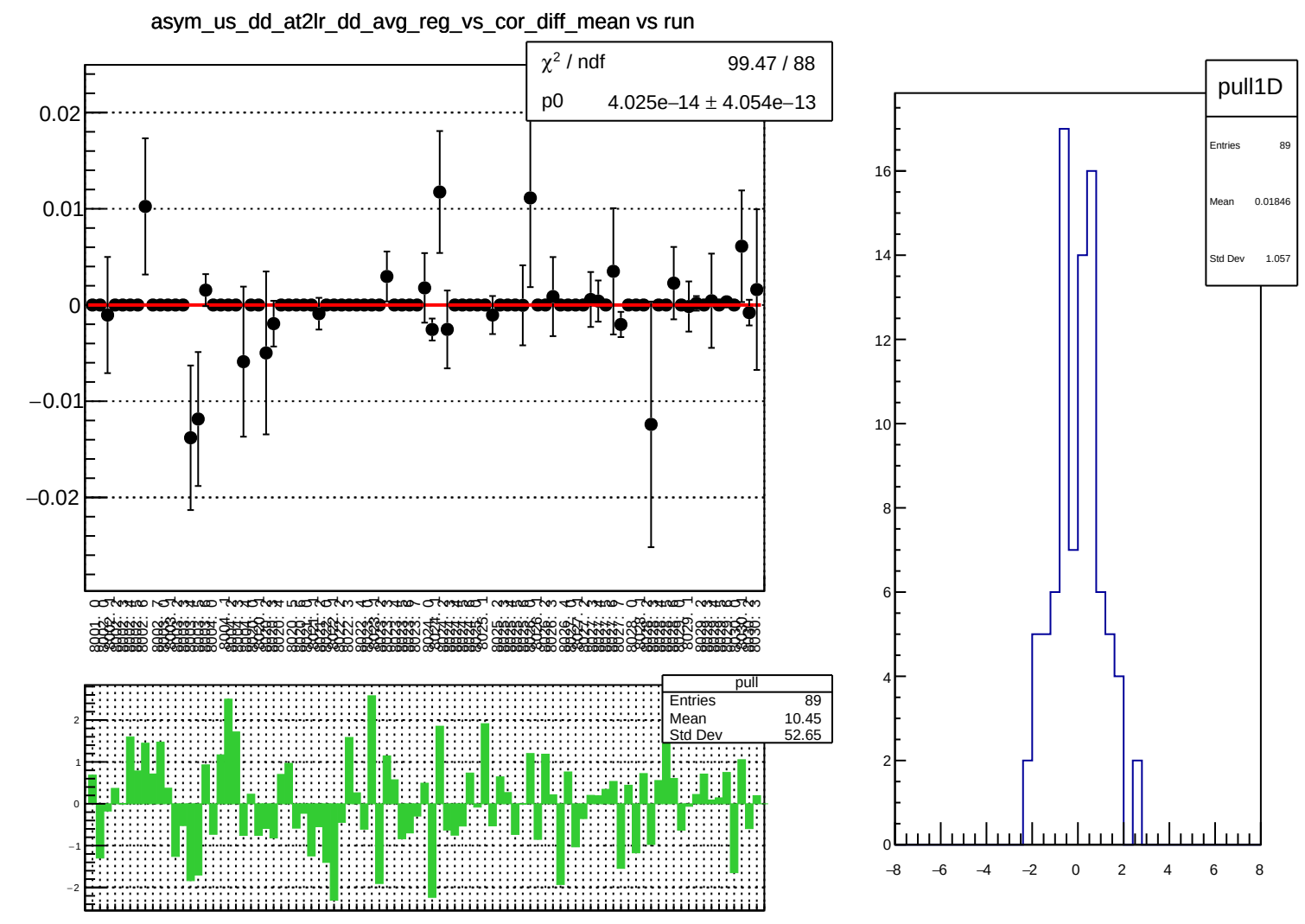

pull1D
Entries 89
Mean 0.01682
Std Dev 1.016
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

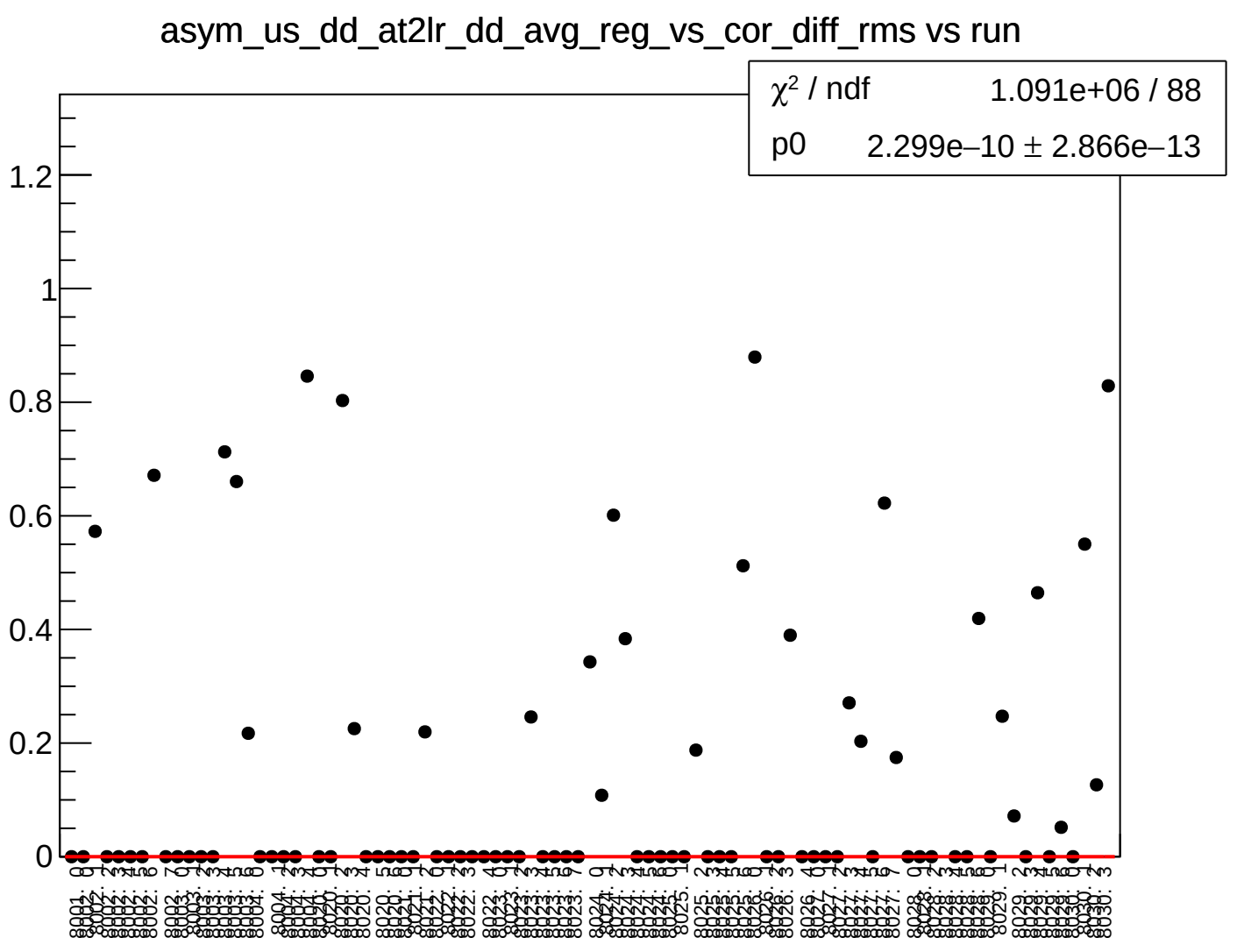

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 6998 / 88
p0 3755 ± 2.857
4400
4200
4000
3800
3600
3400
3200

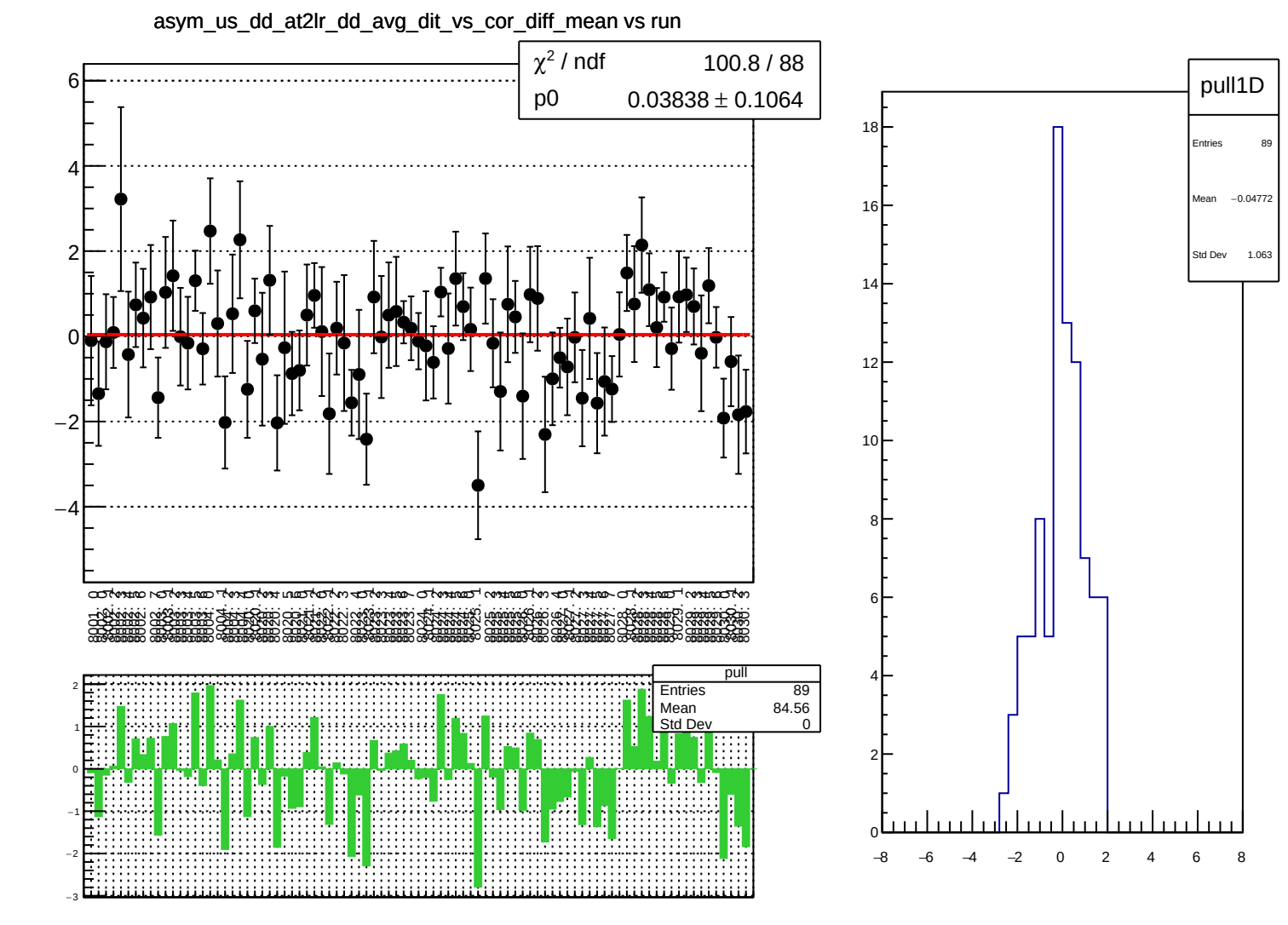

asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ^2 / ndf 97.02 / 88
p0 −3618 ± 4632
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean 100.8
Std Dev 52.11
2
1
0
−1
−2
−3

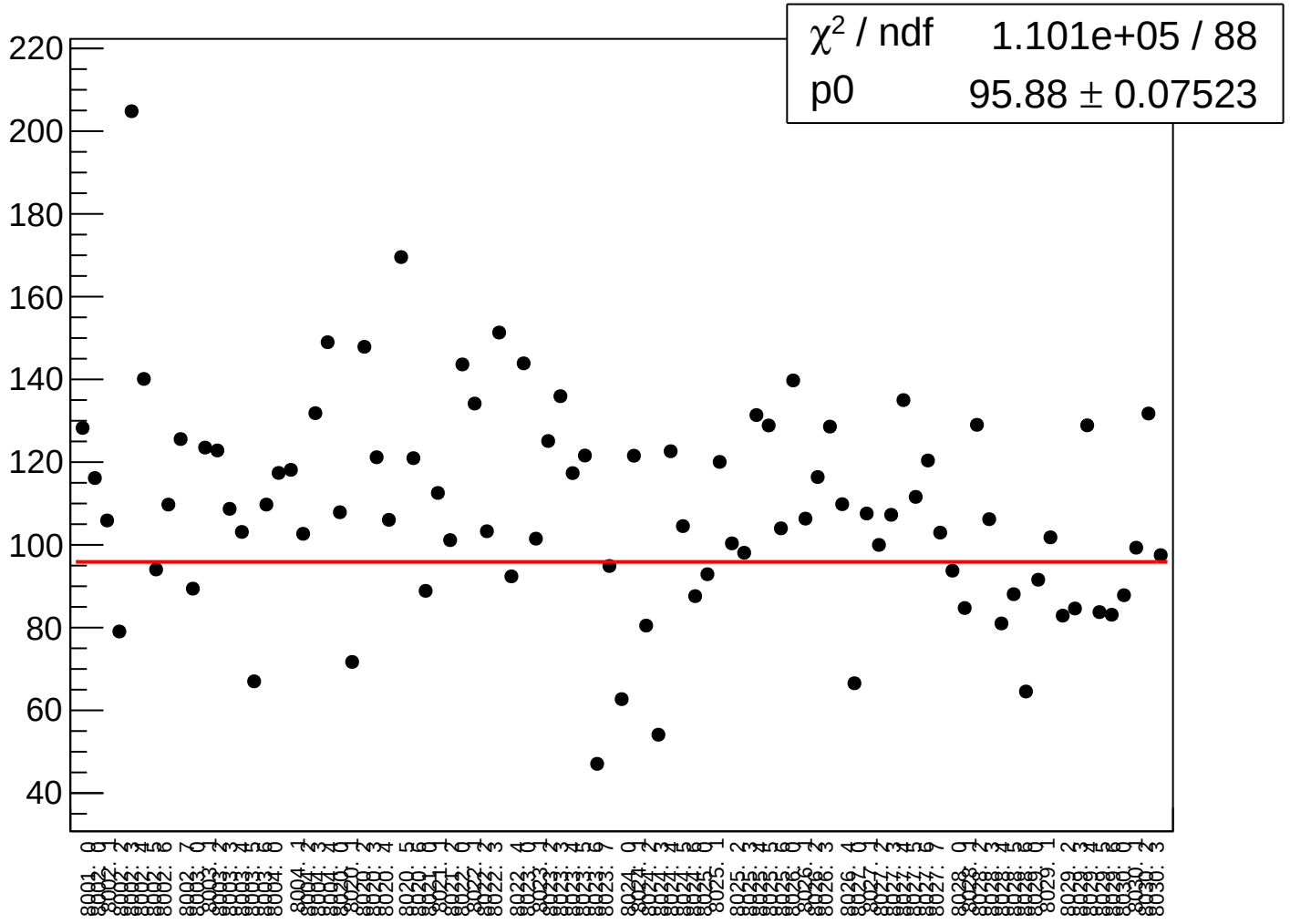

pull1D
Entries 89
Mean −0.01967
Std Dev 1.044
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

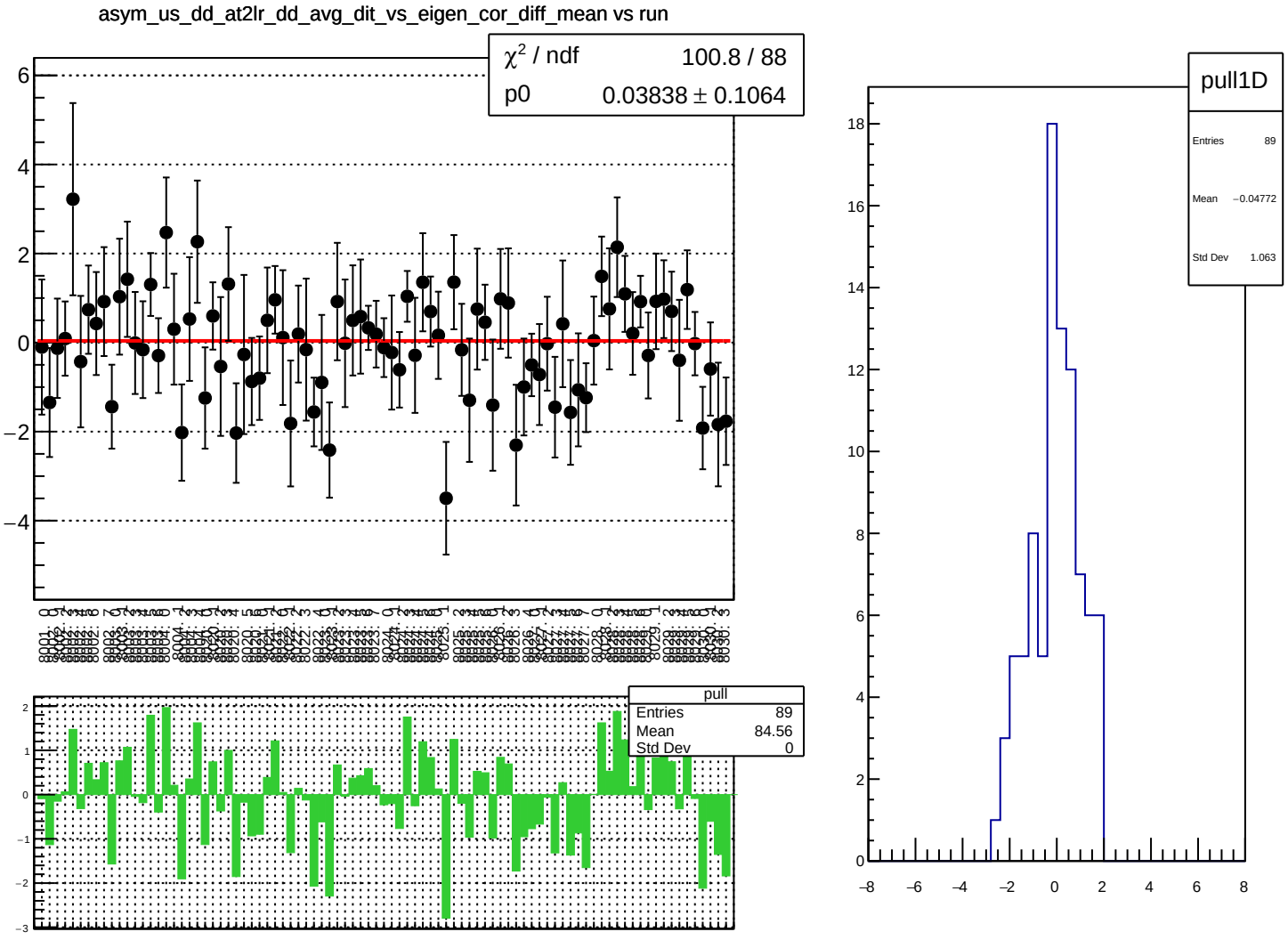

asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 4387 / 88
p0 4308 ± 3.275
4800
4600
4400
4200
4000
3800

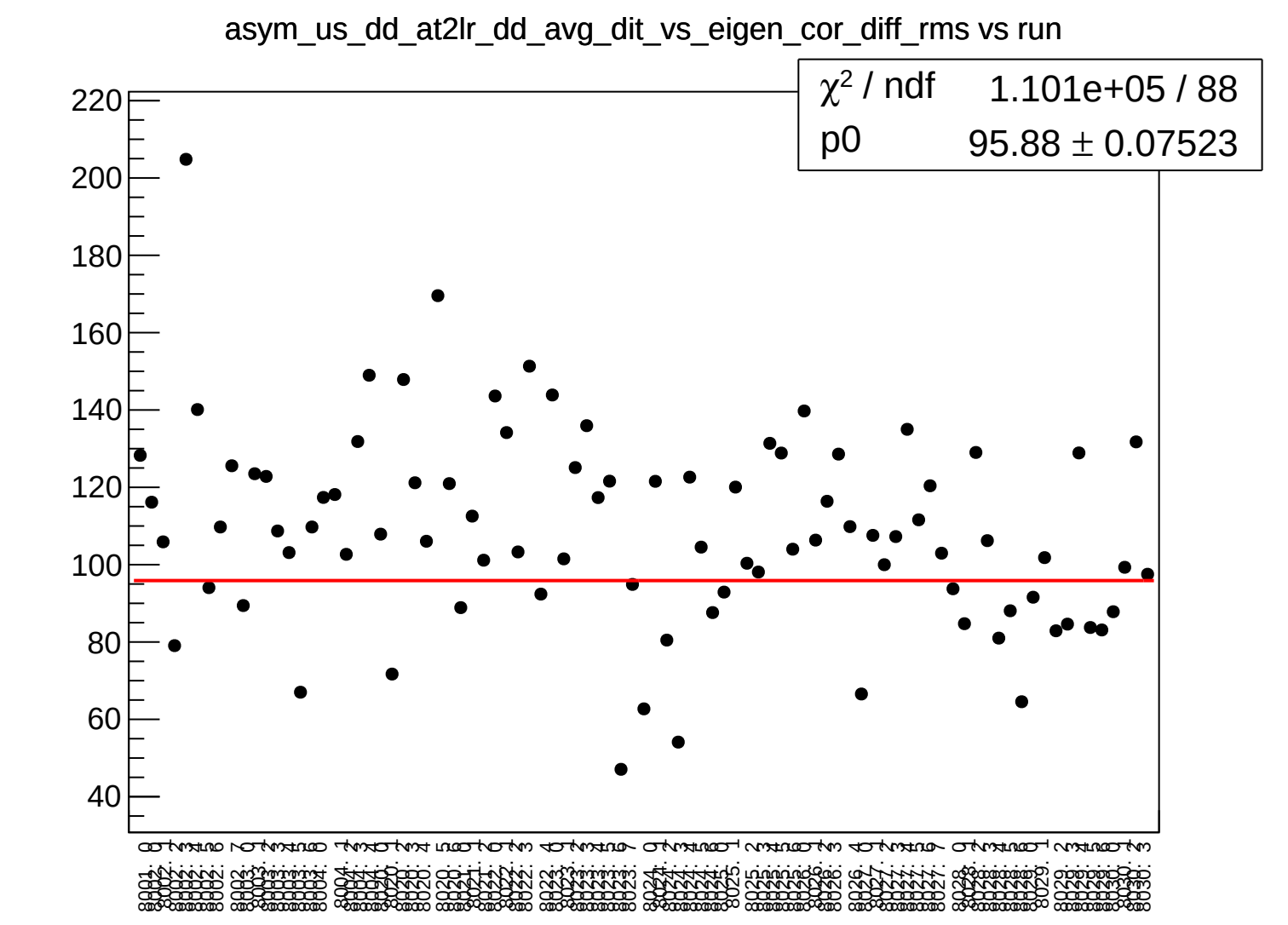

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 99.47 / 88
p0 4.025e−14 ± 4.054e−13
0.02
0.01
0
−0.01
−0.02
pull
Entries 89
Mean 10.45
Std Dev 52.65
pull1D
Entries 89
Mean 0.01846
Std Dev 1.057
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

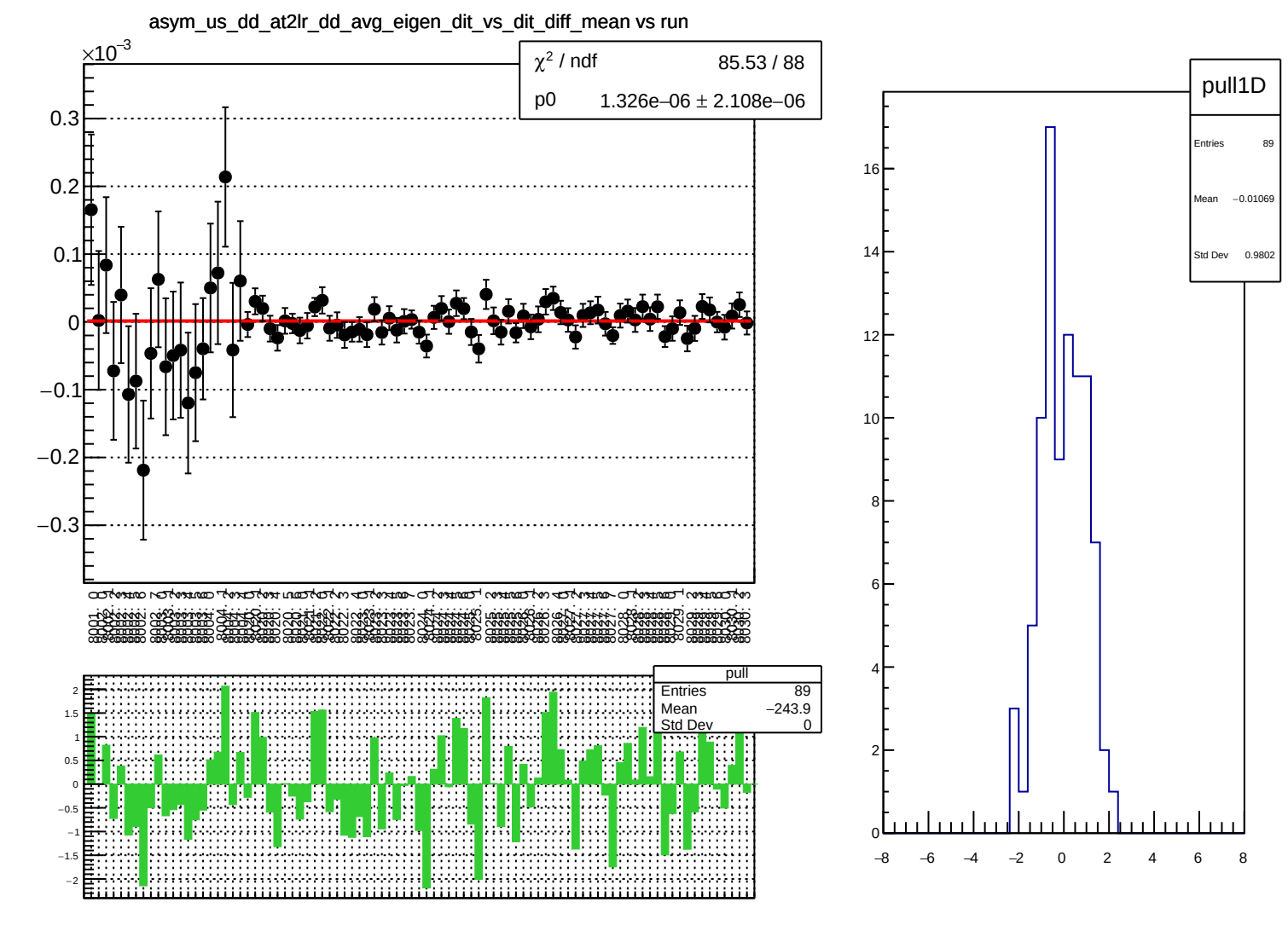

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.091e+06 / 88
p0 2.299e−10 ± 2.866e−13
1.2
1
0.8
0.6
0.4
0.2
0

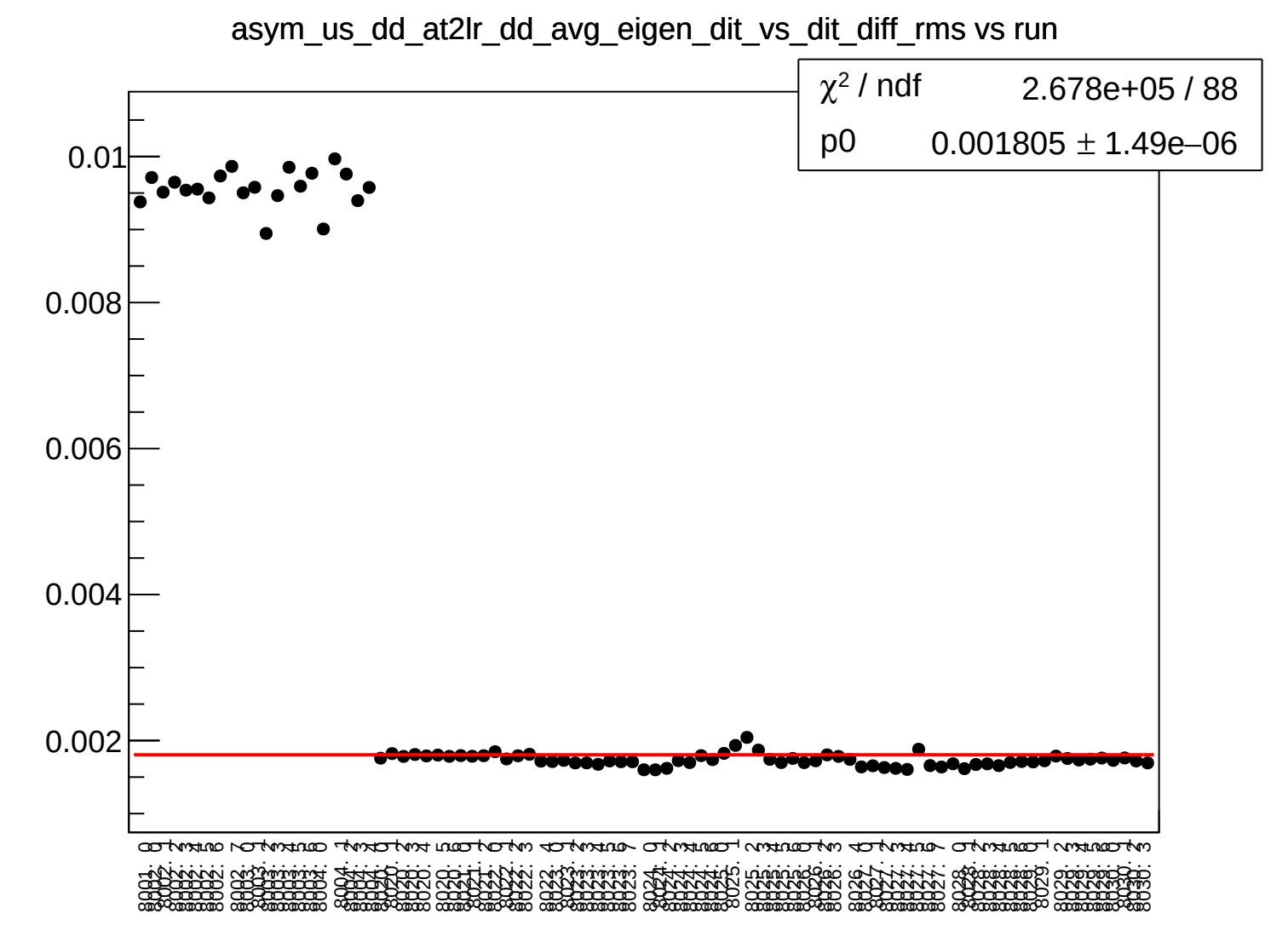

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 100.8 / 88
p0 0.03838 ± 0.1064
pull
Entries 89
Mean 84.56
Std Dev 0
pull1D
Entries 89
Mean −0.04772
Std Dev 1.063

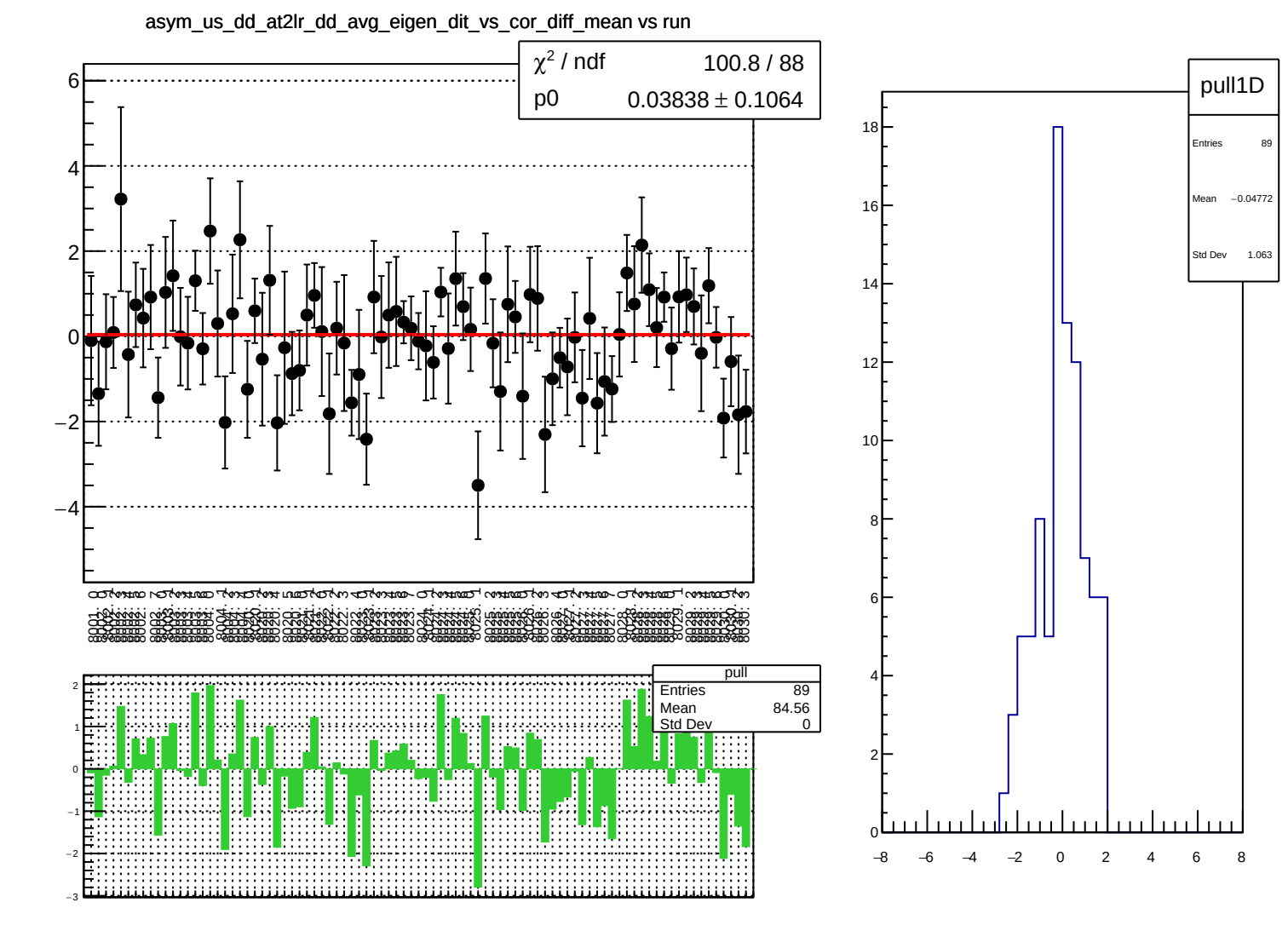

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.101e+05 / 88
p0 95.88 ± 0.07523
220
200
180
160
140
120
100
80
60
40

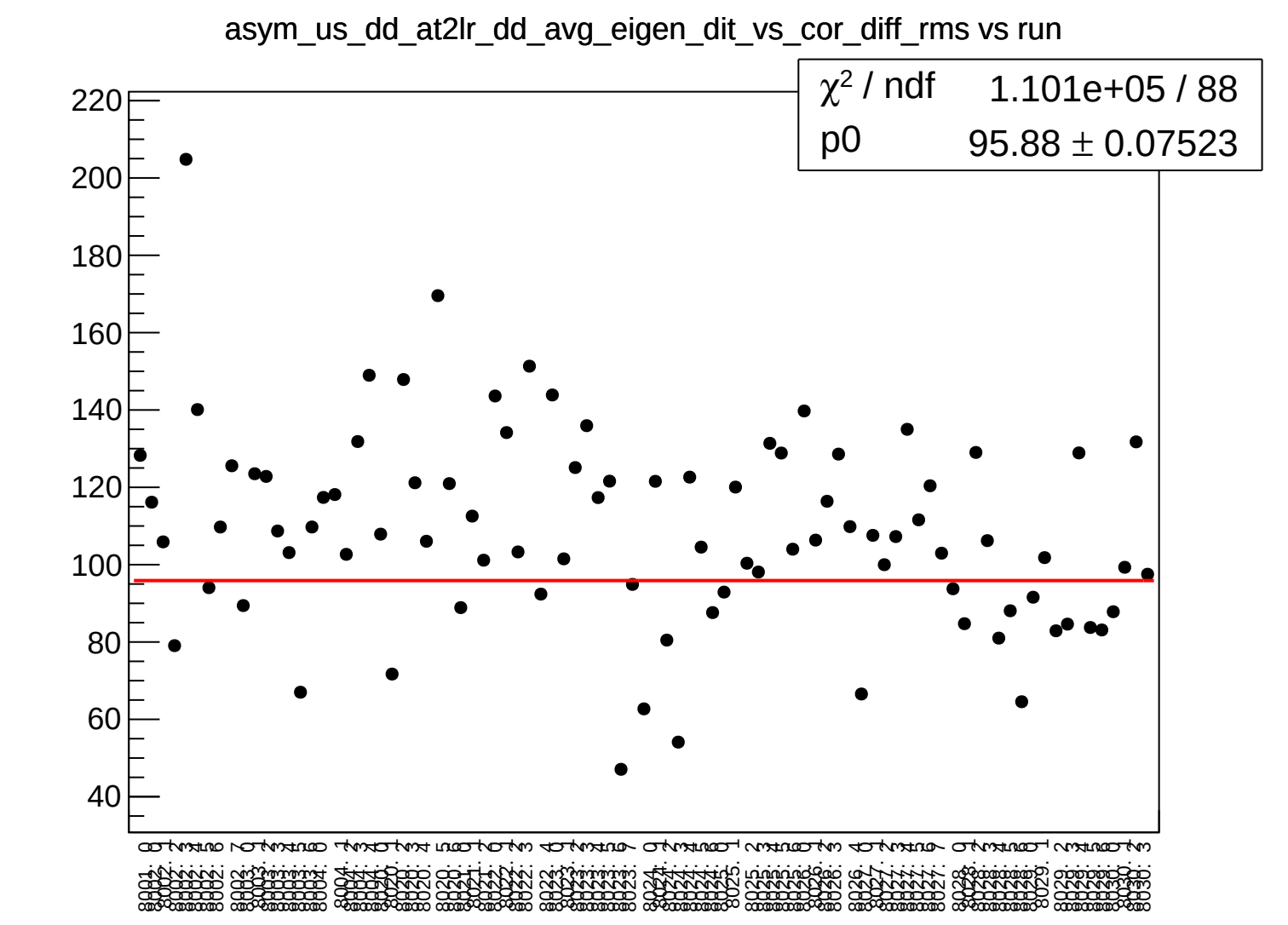

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.8 / 88
p0 0.03838 ± 0.1064
pull
Entries 89
Mean 84.56
Std Dev 0
pull1D
Entries 89
Mean −0.04772
Std Dev 1.063

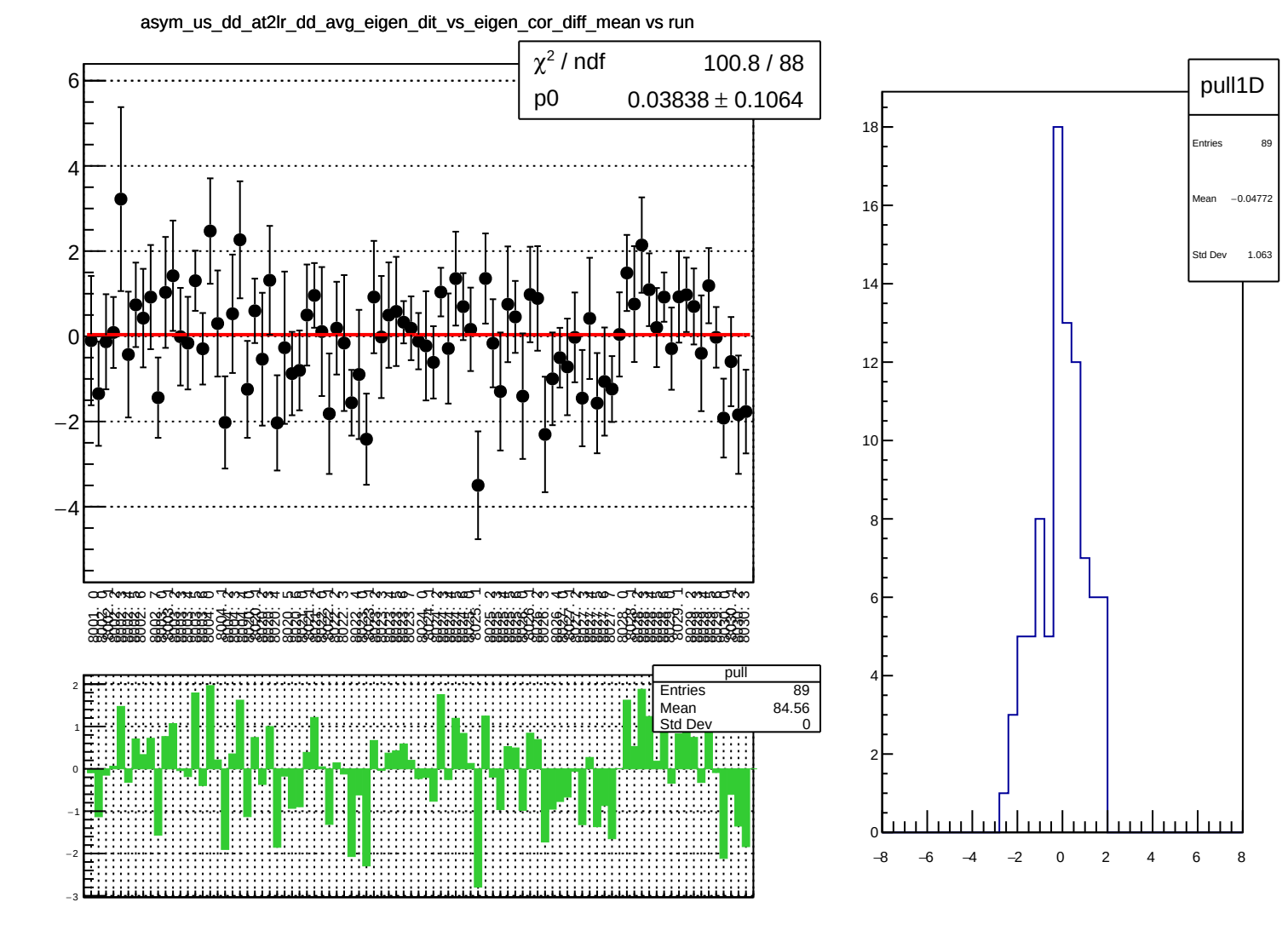

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.101e+05 / 88
p0 95.88 ± 0.07523
220
200
180
160
140
120
100
80
60
40

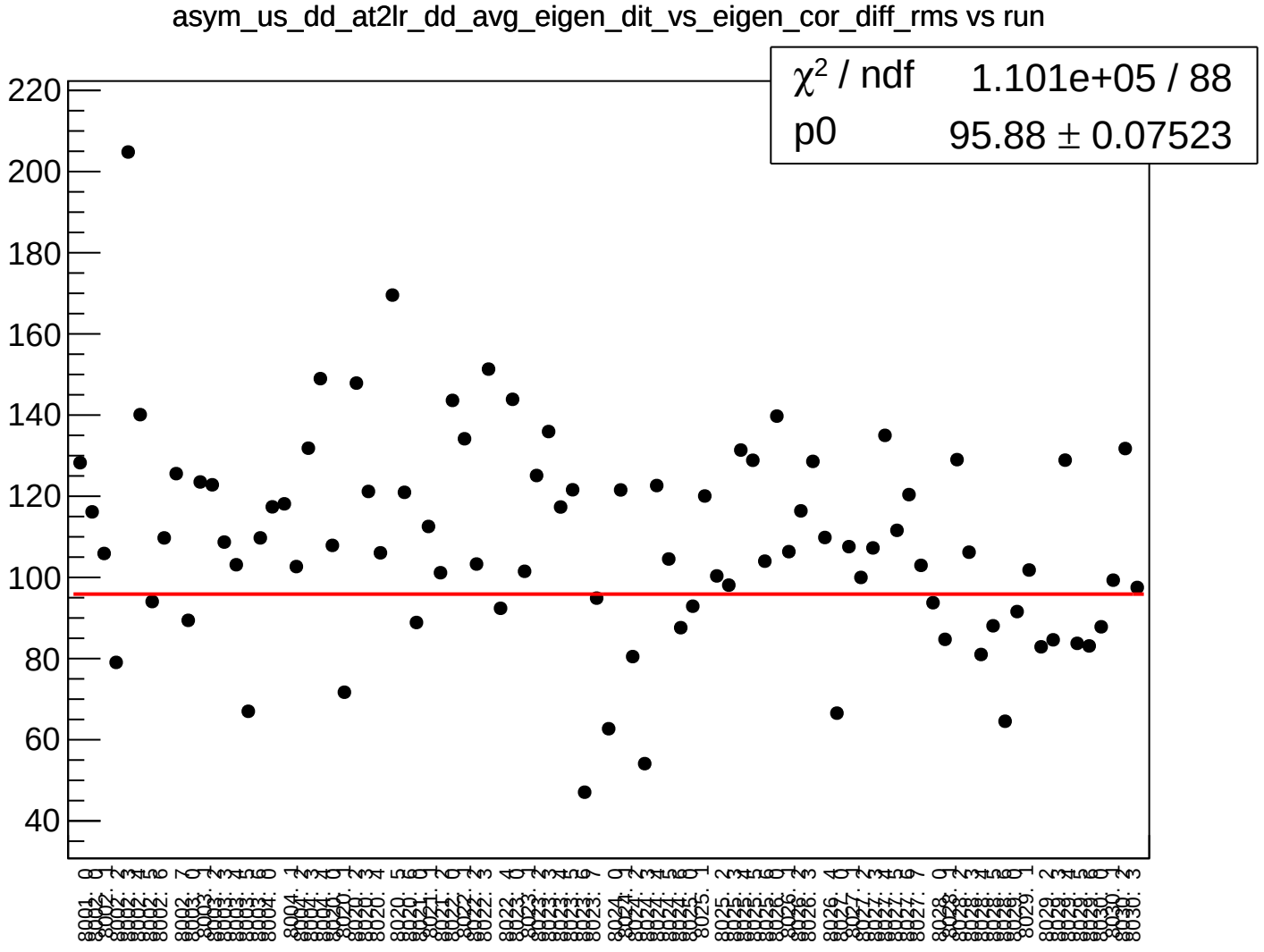

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 85.53 / 88
p0 1.326e−06 ± 2.108e−06
pull
Entries 89
Mean −243.9
Std Dev 0
pull1D
Entries 89
Mean −0.01069
Std Dev 0.9802

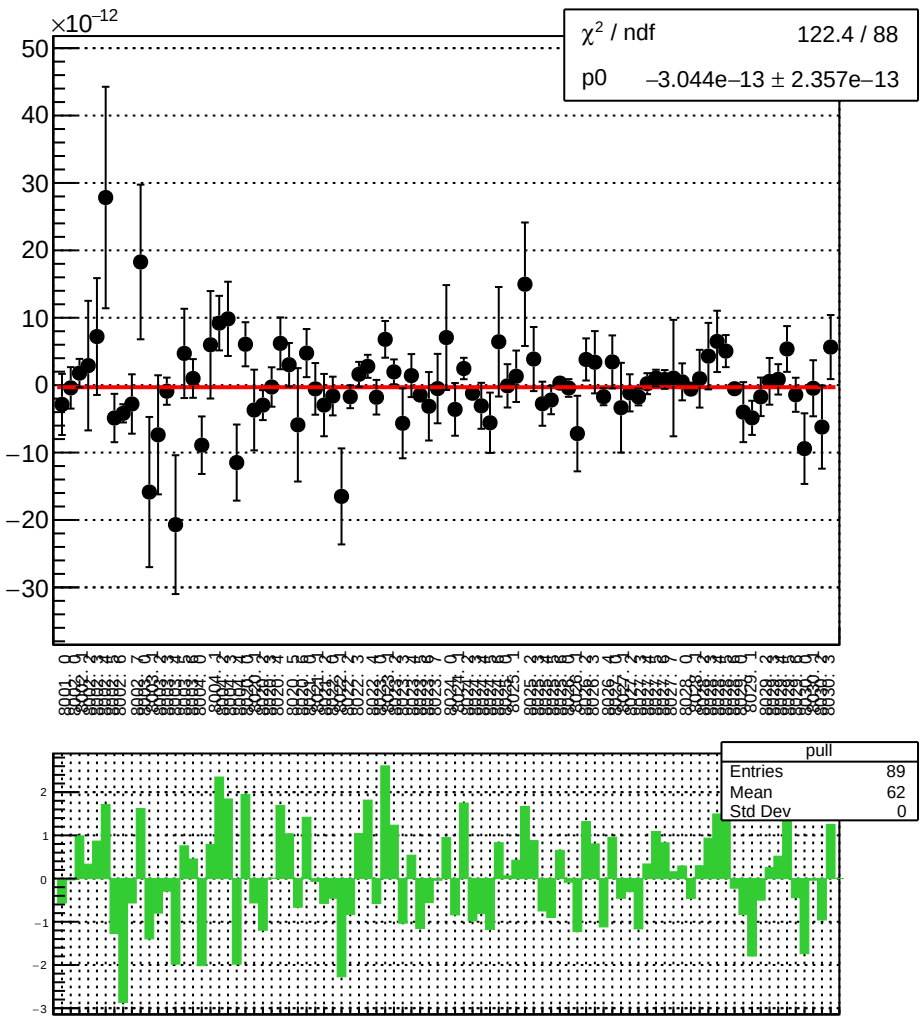

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.678e+05 / 88
p0 0.001805 ± 1.49e−06
0.01
0.008
0.006
0.004
0.002

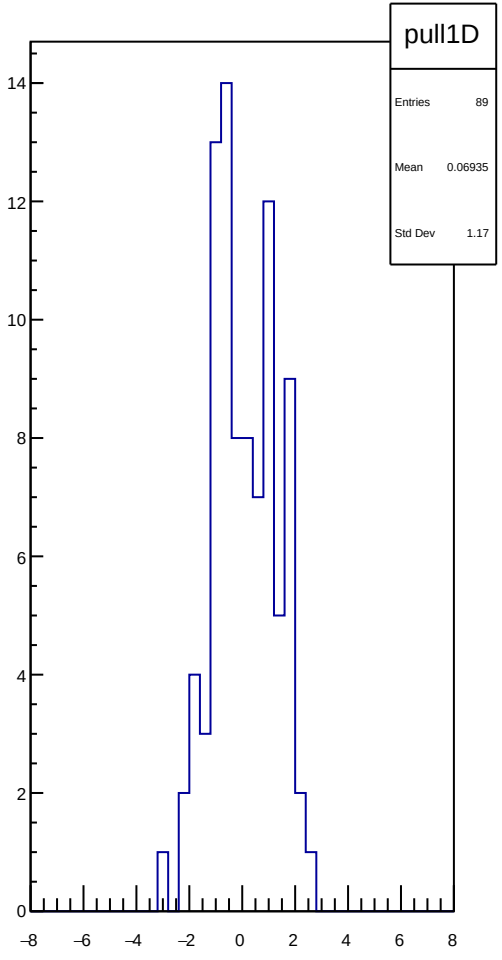

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 100.8 / 88
p0 0.03838 ± 0.1064
pull
Entries 89
Mean 84.56
Std Dev 0
pull1D
Entries 89
Mean −0.04772
Std Dev 1.063

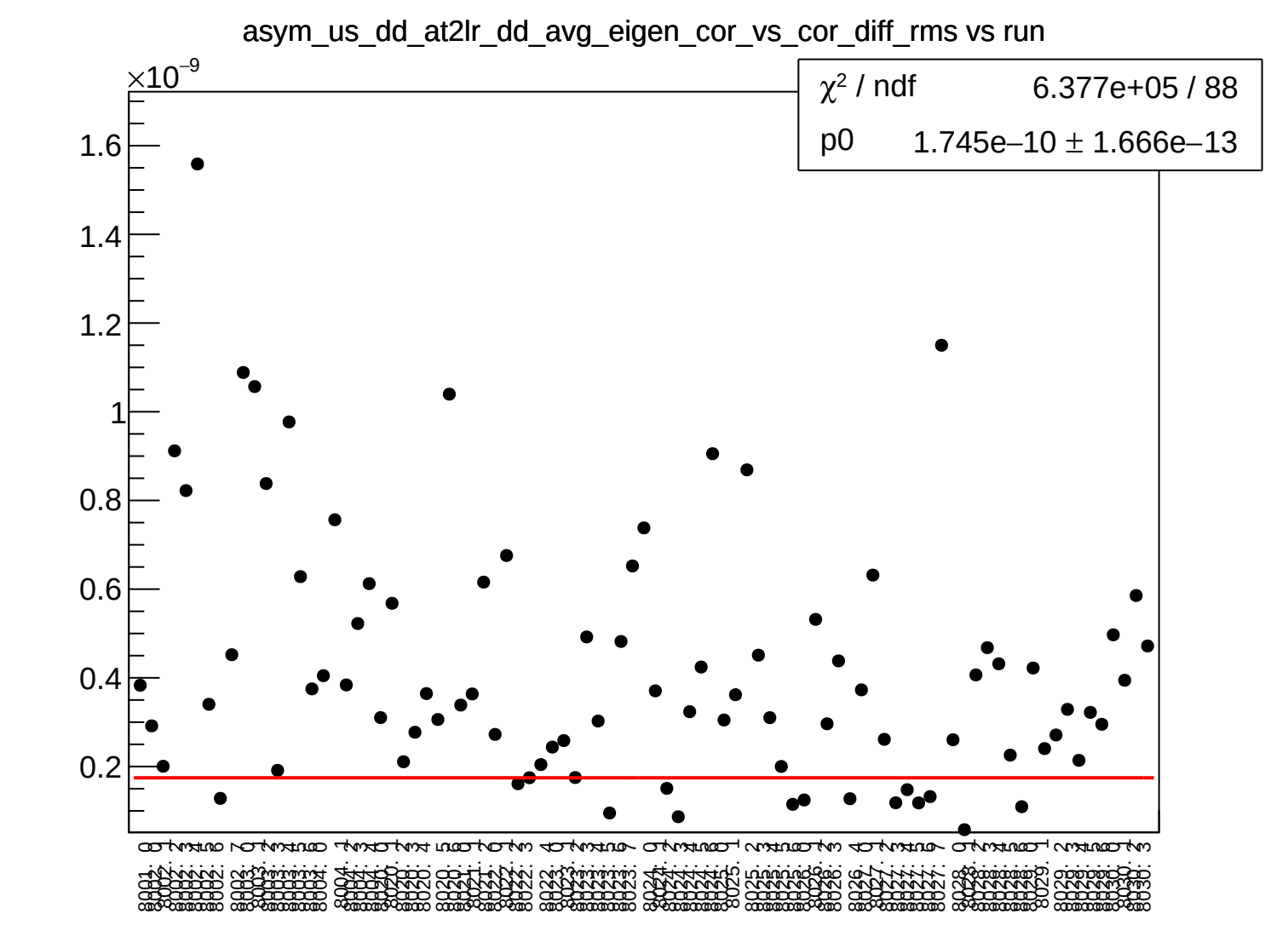

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.101e+05 / 88
p0 95.88 ± 0.07523
220
200
180
160
140
120
100
80
60
40

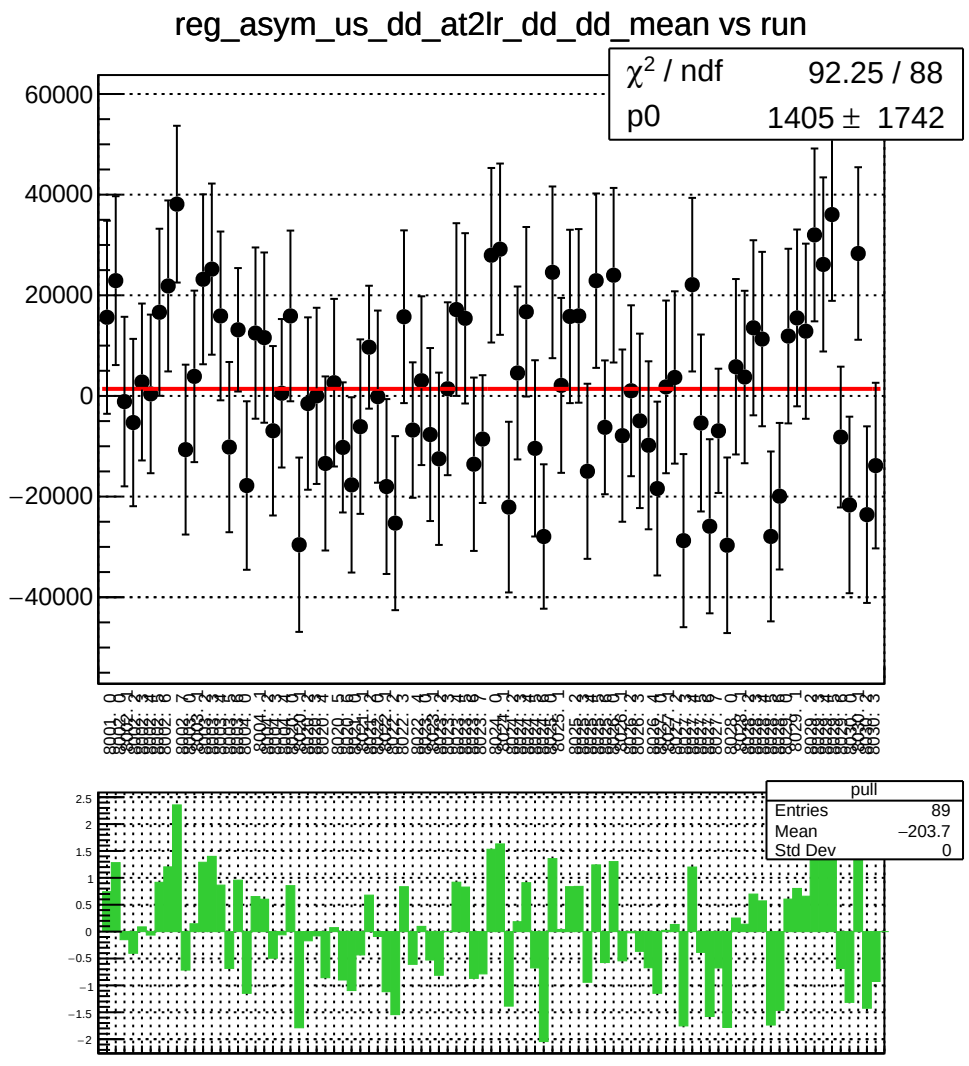

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.8 / 88
p0 0.03838 ± 0.1064
pull
Entries 89
Mean 84.56
Std Dev 0
pull1D
Entries 89
Mean −0.04772
Std Dev 1.063

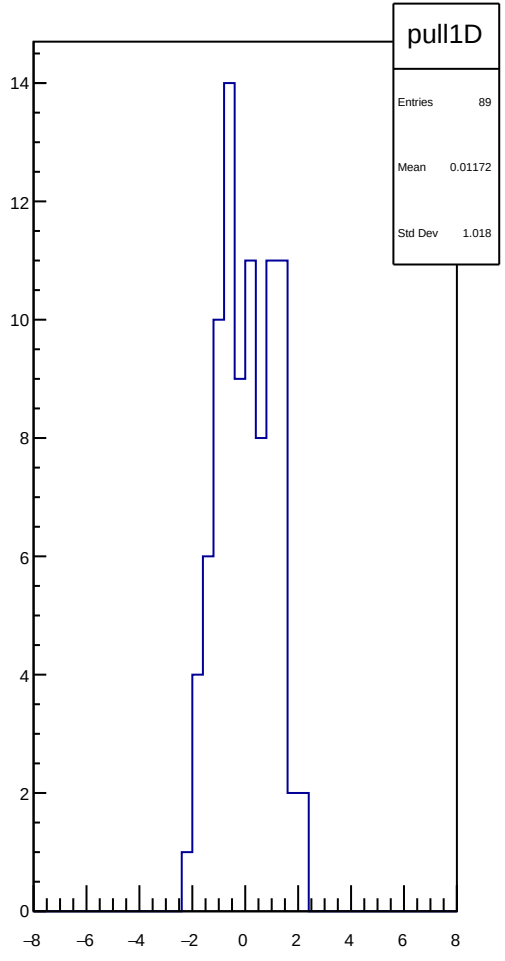

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.101e+05 / 88
p0 95.88 ± 0.07523
220
200
180
160
140
120
100
80
60
40

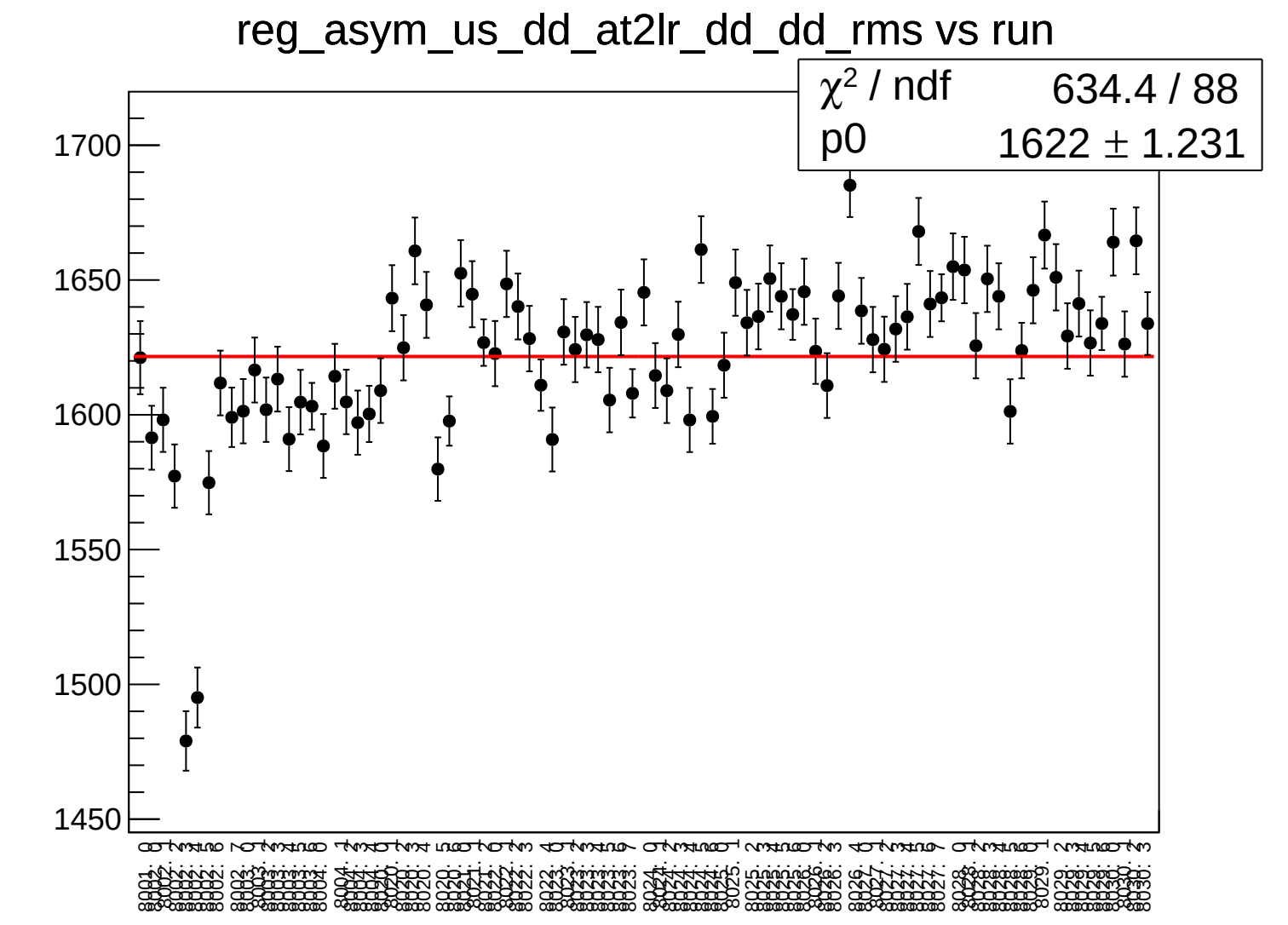

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 122.4 / 88
p0 −3.044e−13 ± 2.357e−13
pull
Entries 89
Mean 62
Std Dev 0

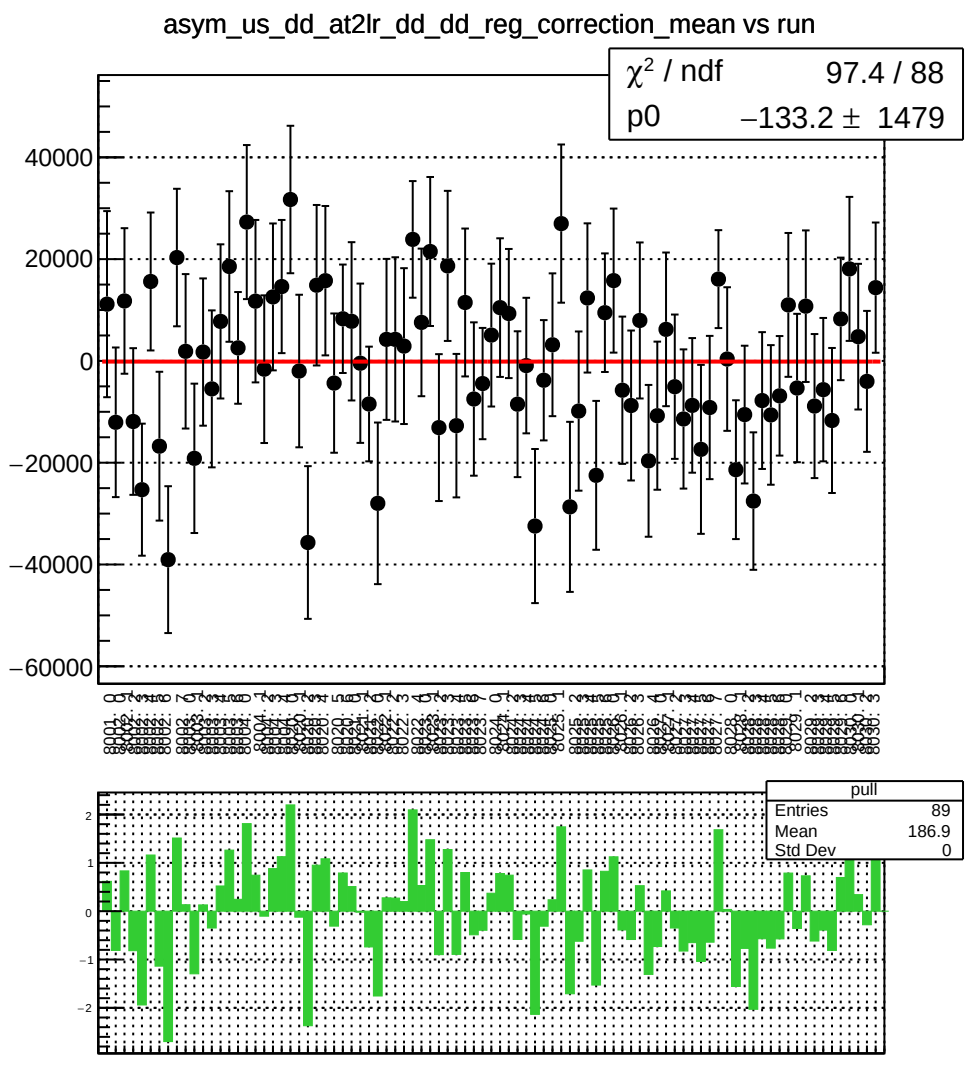

pull1D
Entries 89
Mean 0.06935
Std Dev 1.17

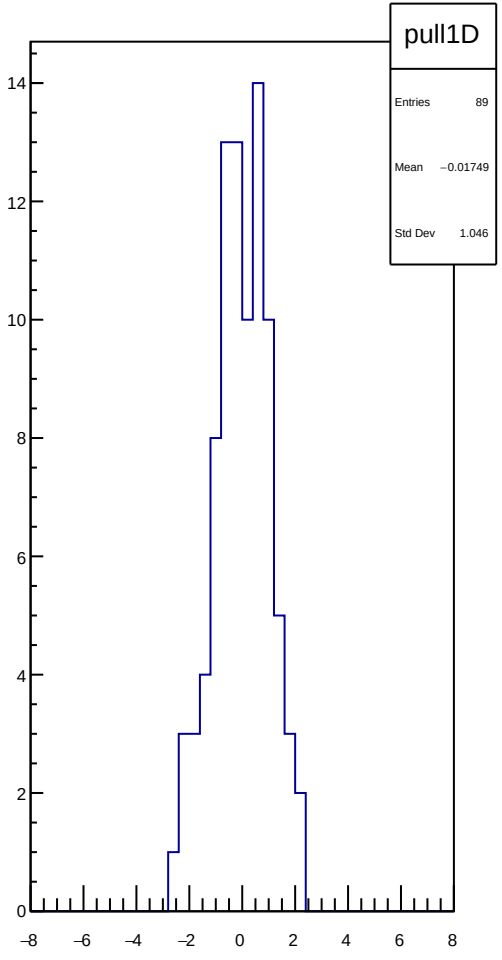

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.377e+05 / 88
p0 1.745e−10 ± 1.666e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

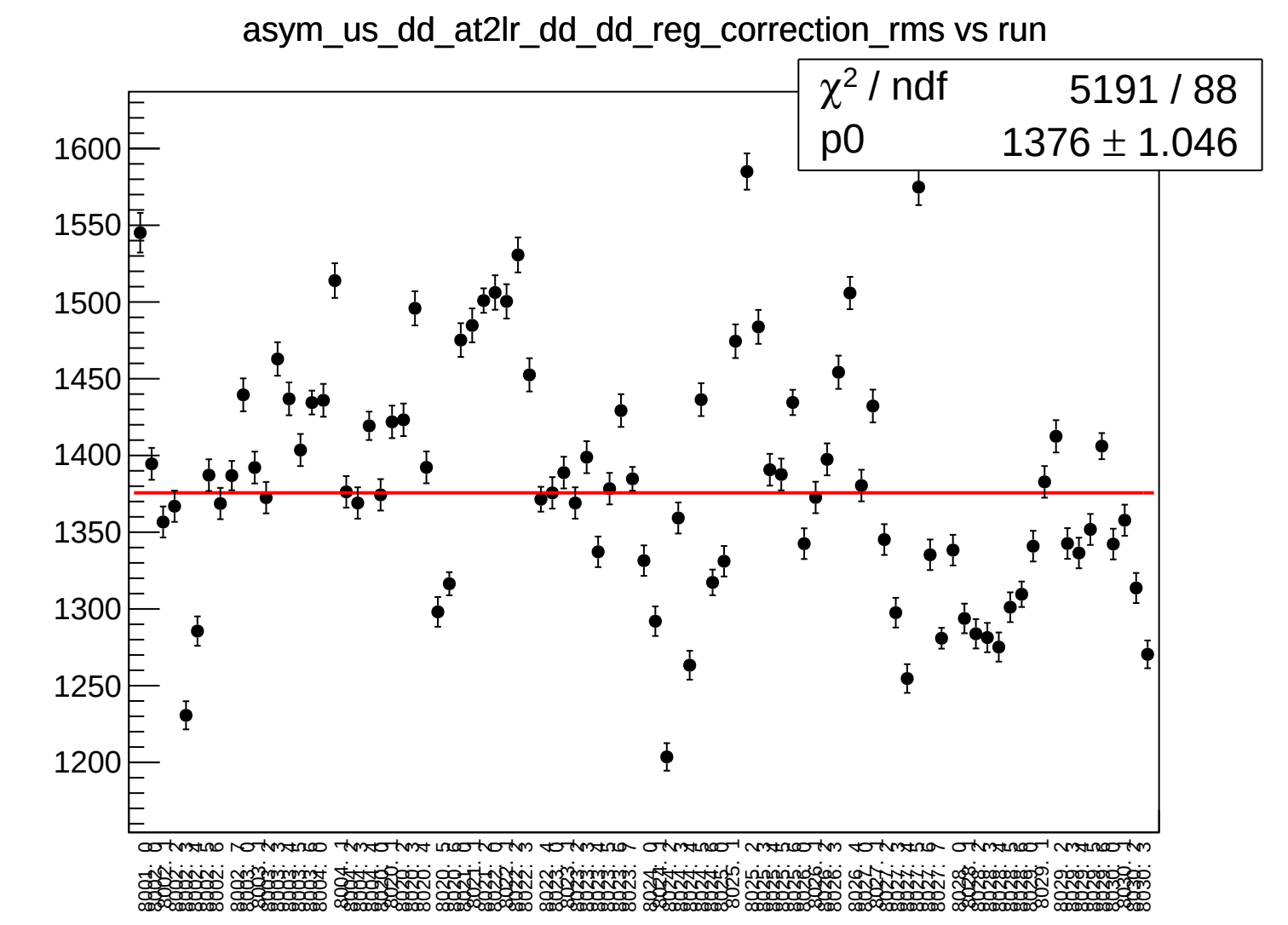

reg_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 92.25 / 88
p0 1405 ± 1742
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −203.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

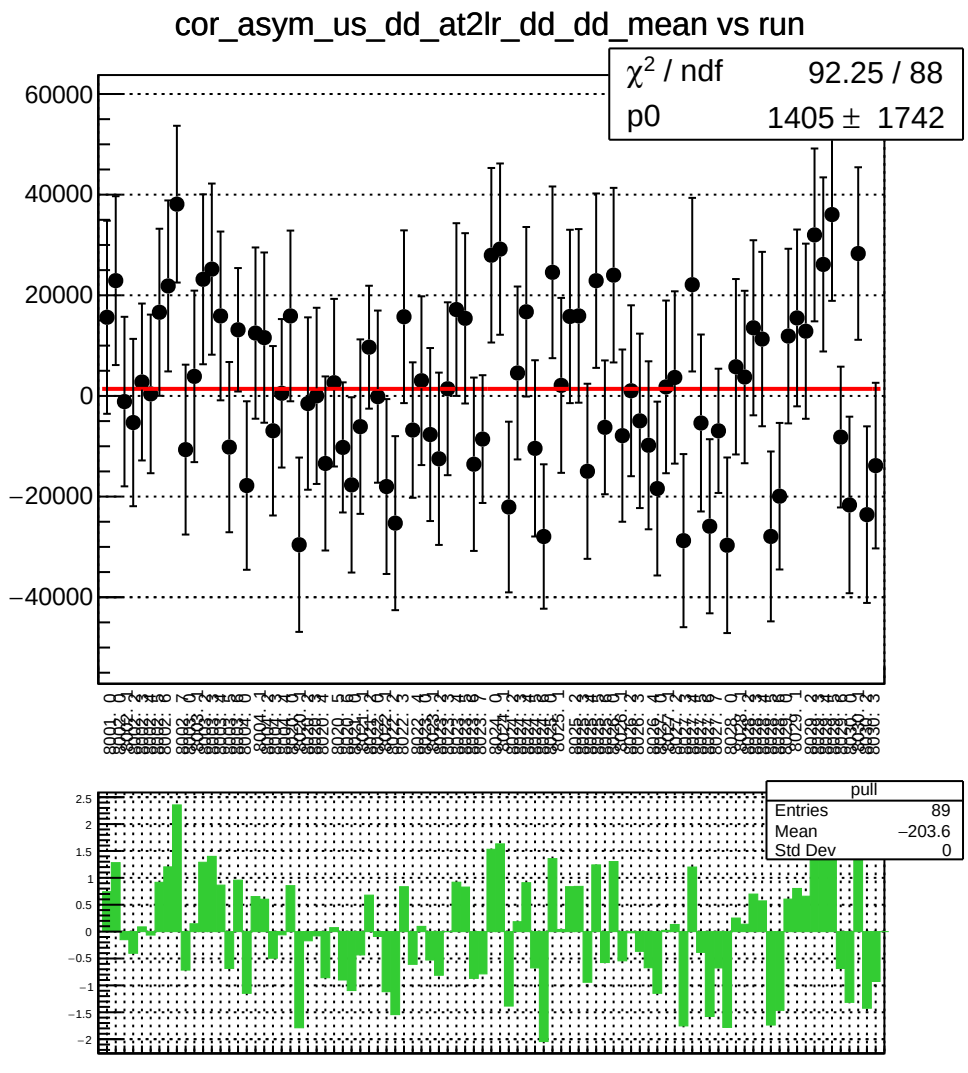

pull1D
Entries 89
Mean 0.01172
Std Dev 1.018
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

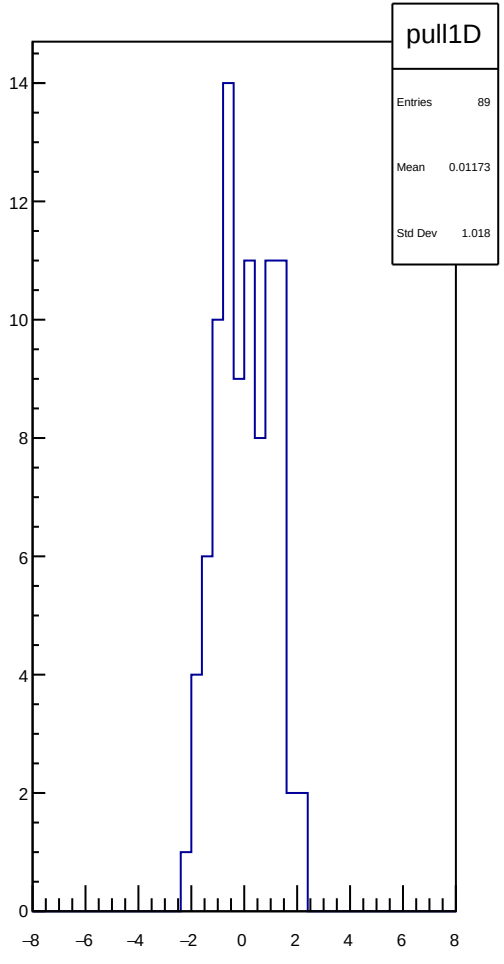

reg_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 634.4 / 88
p0 1622 ± 1.231
1700
1650
1600
1550
1500
1450

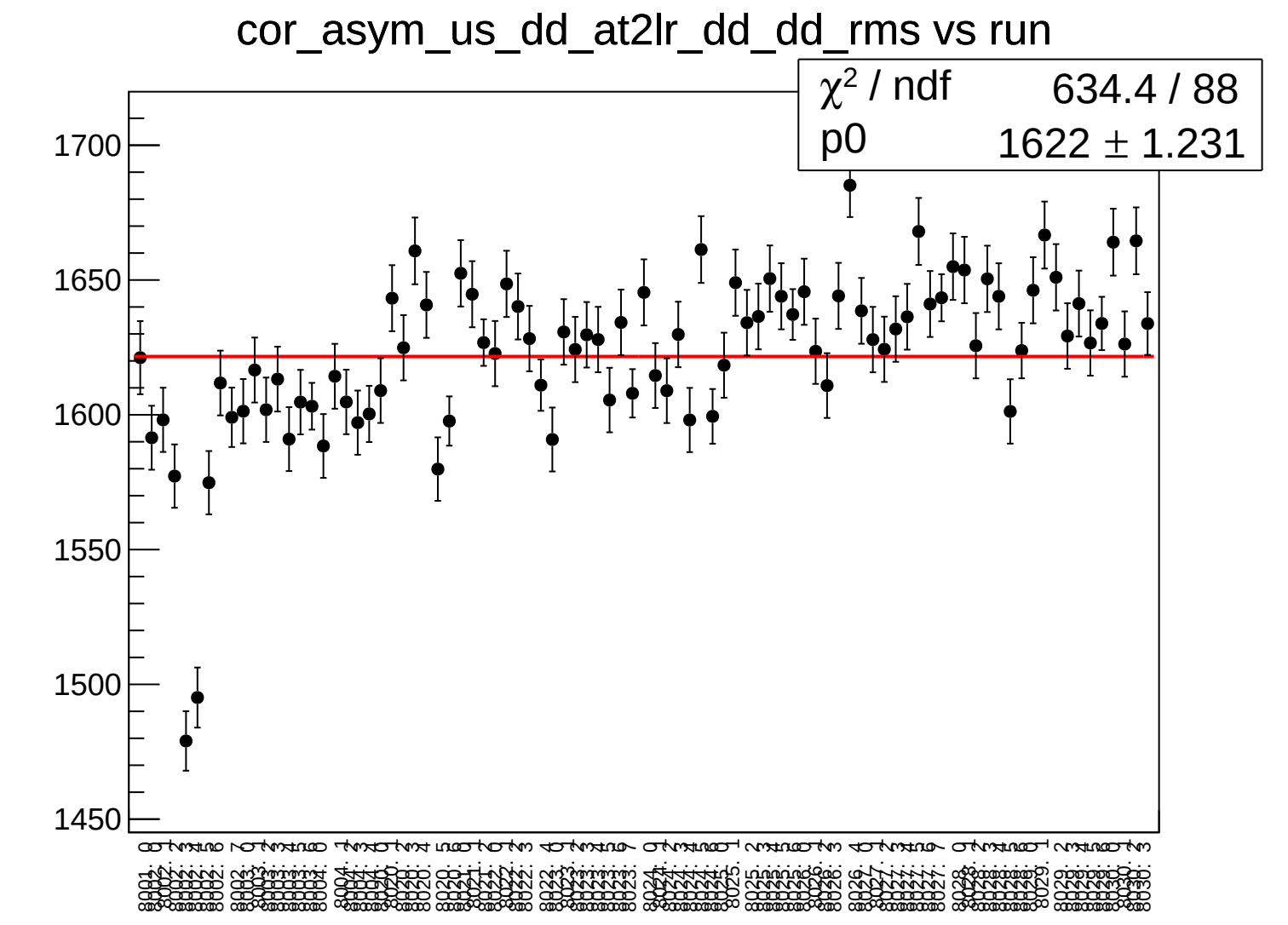

asym_us_dd_at2lr_dd_dd_reg_correction_mean vs run
χ² / ndf 97.4 / 88
p0 −133.2 ± 1479
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 186.9
Std Dev 0
2
1
0
−1
−2

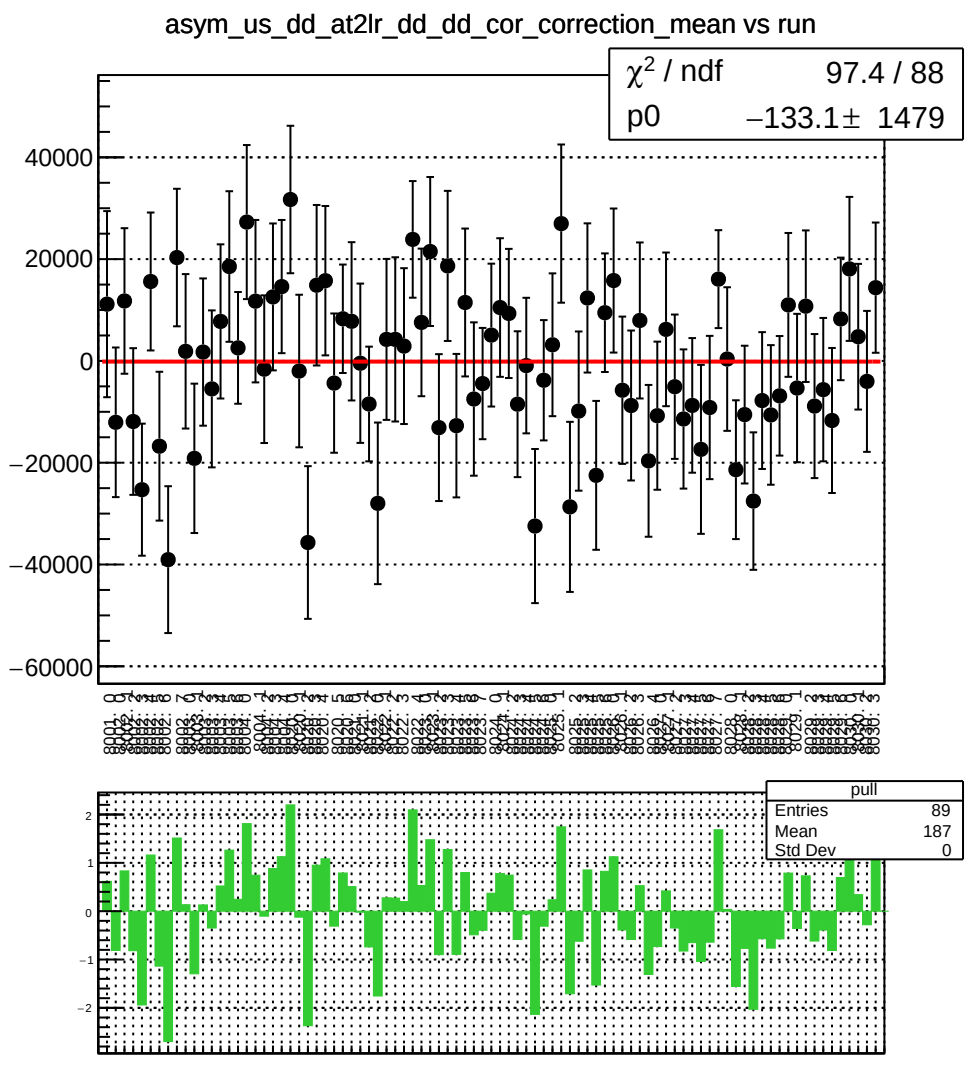

pull1D
Entries 89
Mean −0.01749
Std Dev 1.046
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

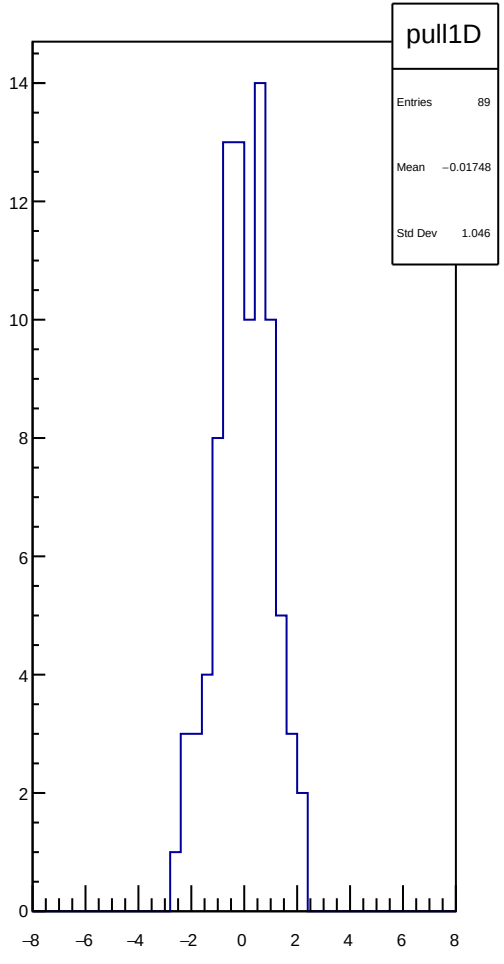

asym_us_dd_at2lr_dd_dd_reg_correction_rms vs run
χ² / ndf 5191 / 88
p0 1376 ± 1.046
1600
1550
1500
1450
1400
1350
1300
1250
1200

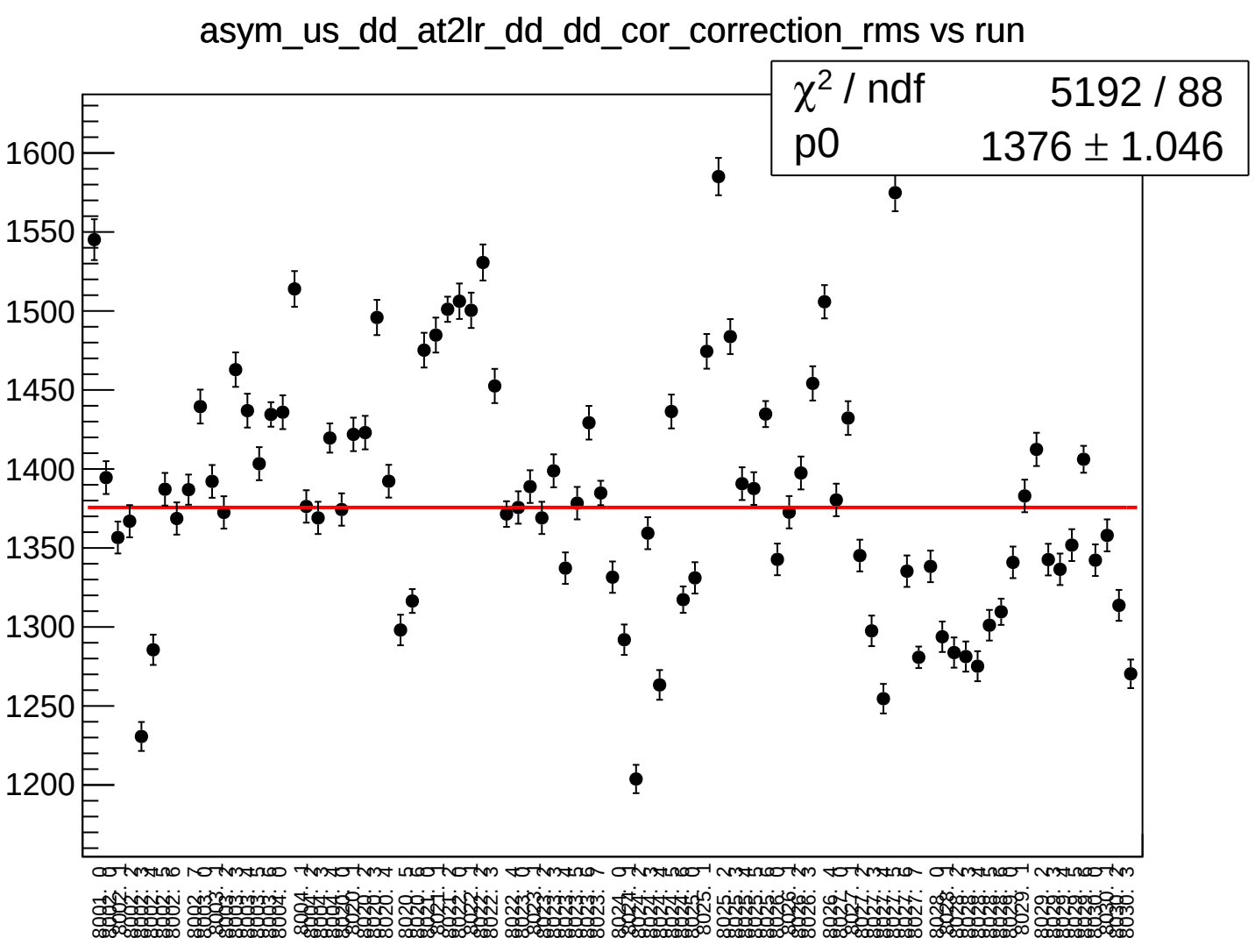

cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 92.25 / 88
p0 1405 ± 1742
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −203.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

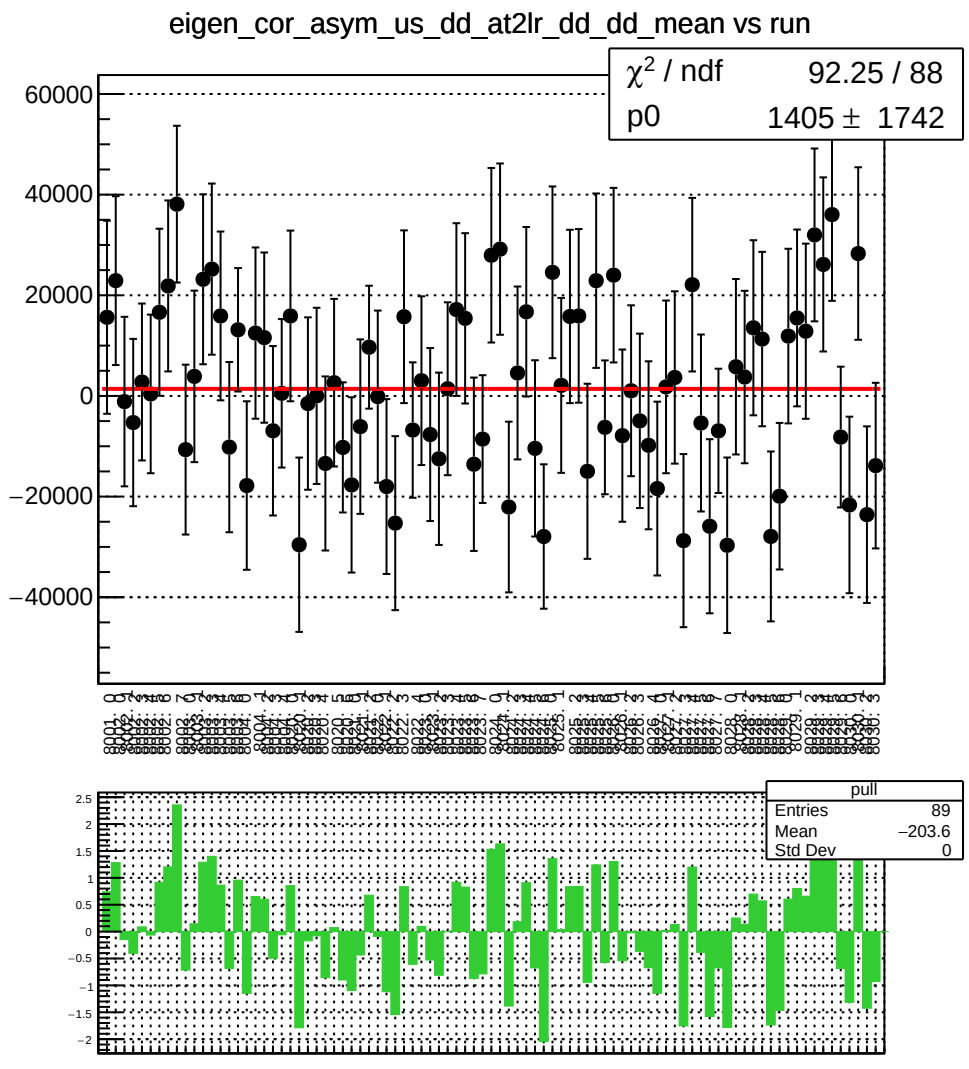

pull1D
Entries 89
Mean 0.01173
Std Dev 1.018
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

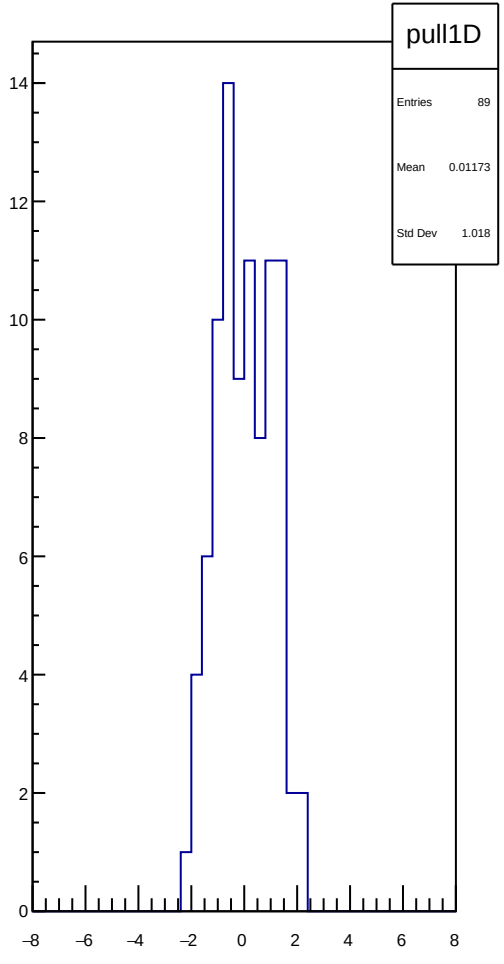

cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 634.4 / 88
p0 1622 ± 1.231
1700
1650
1600
1550
1500
1450

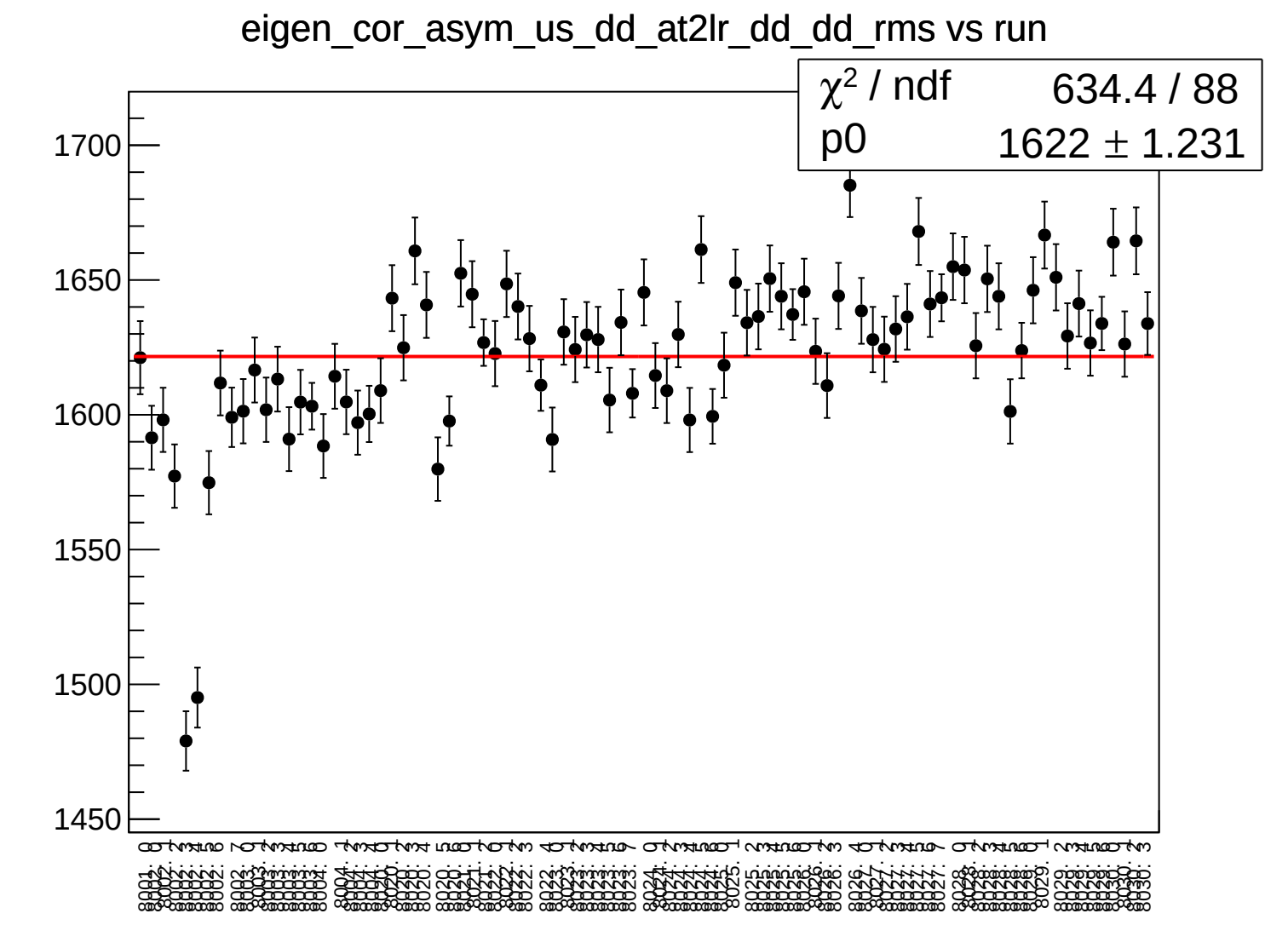

asym_us_dd_at2lr_dd_dd_cor_correction_mean vs run
χ² / ndf 97.4 / 88
p0 −133.1± 1479
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 187
Std Dev 0
2
1
0
−1
−2

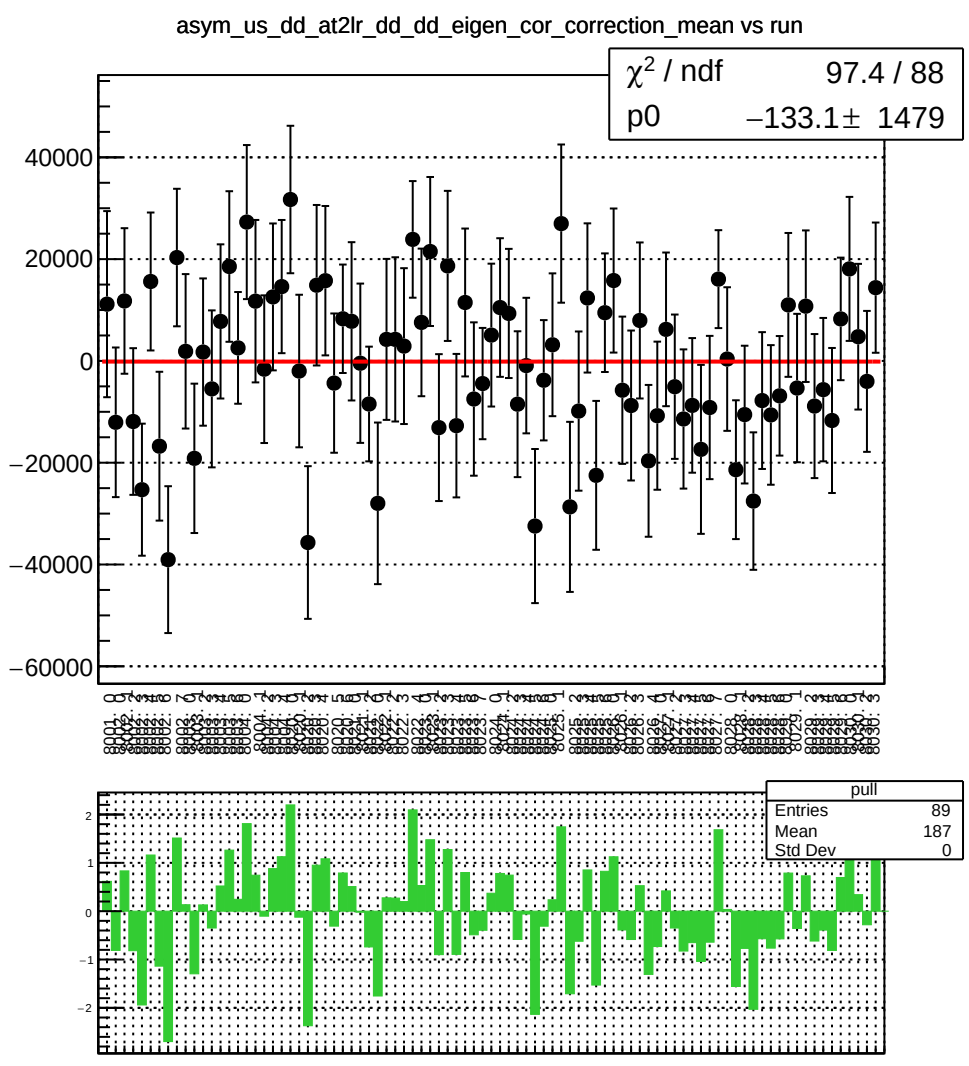

pull1D
Entries 89
Mean −0.01748
Std Dev 1.046
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

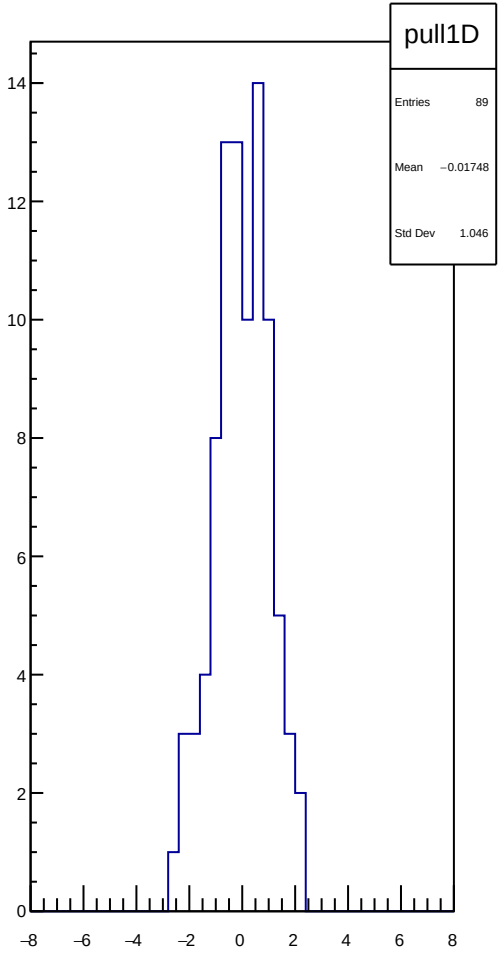

asym_us_dd_at2lr_dd_dd_cor_correction_rms vs run
χ² / ndf 5192 / 88
p0 1376 ± 1.046
1600
1550
1500
1450
1400
1350
1300
1250
1200

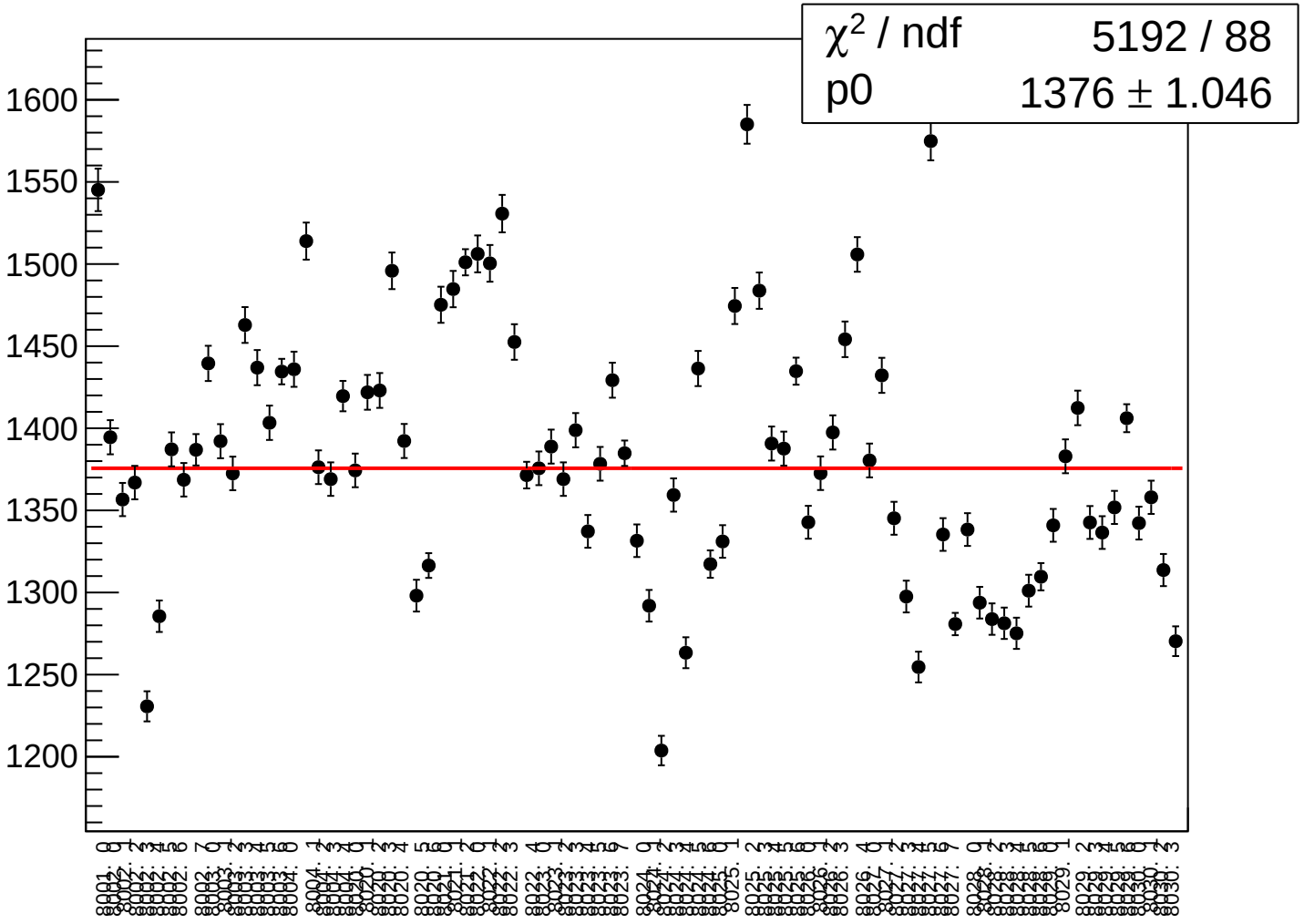

eigen_cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 92.25 / 88
p0 1405 ± 1742
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −203.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

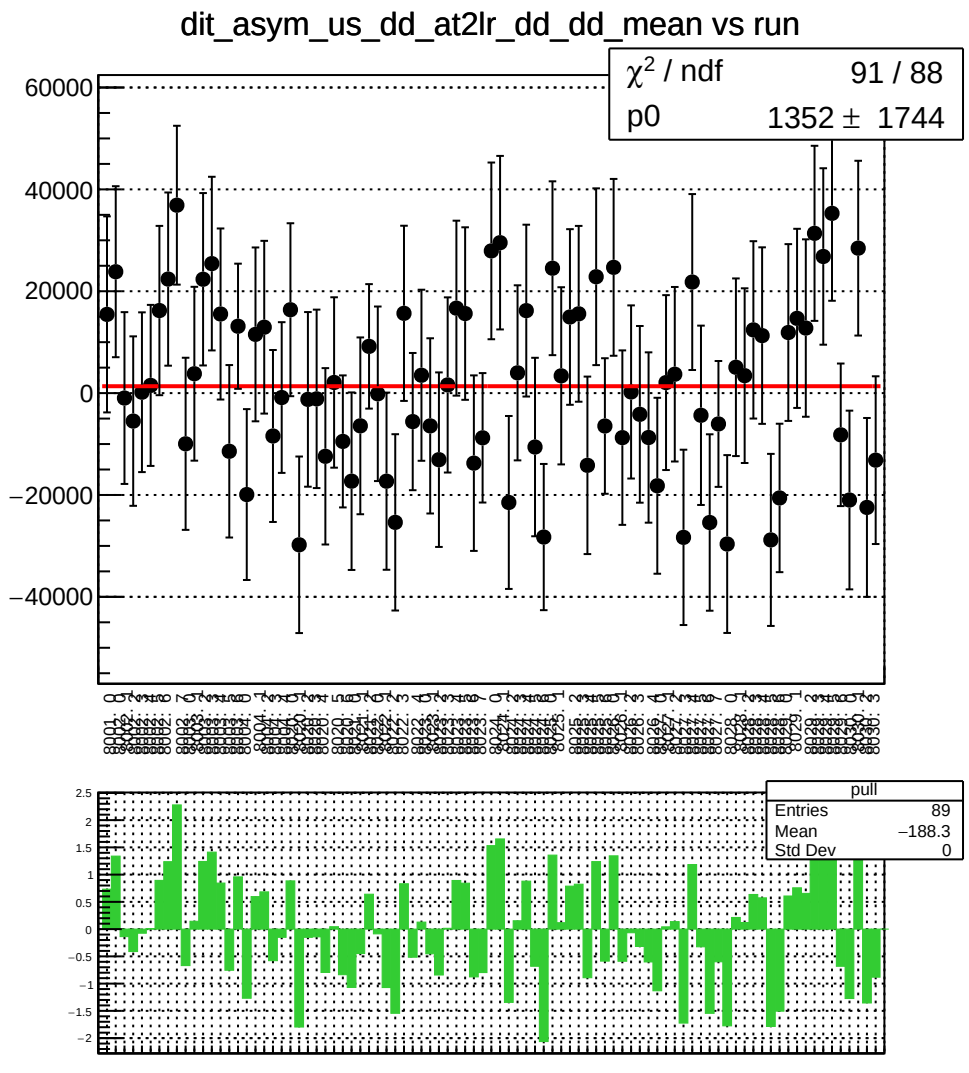

pull1D
Entries 89
Mean 0.01173
Std Dev 1.018
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

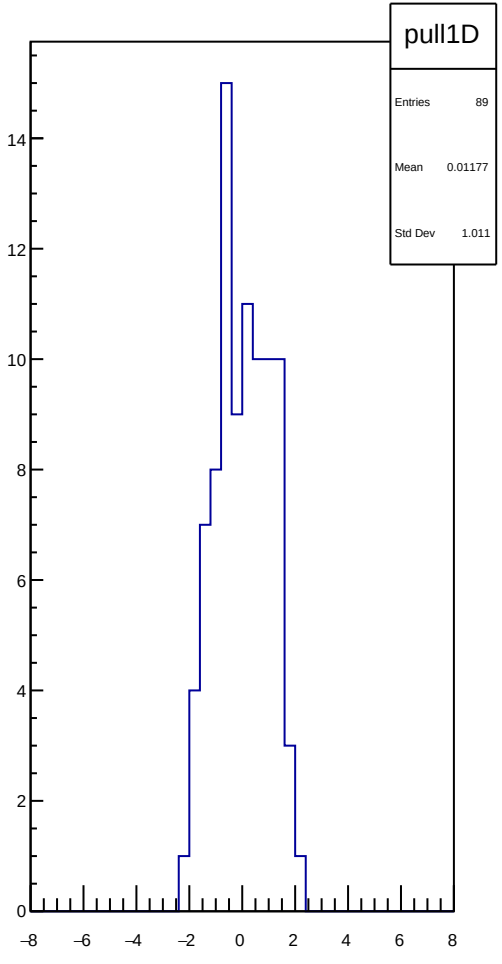

eigen_cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 634.4 / 88
p0 1622 ± 1.231
1700
1650
1600
1550
1500
1450

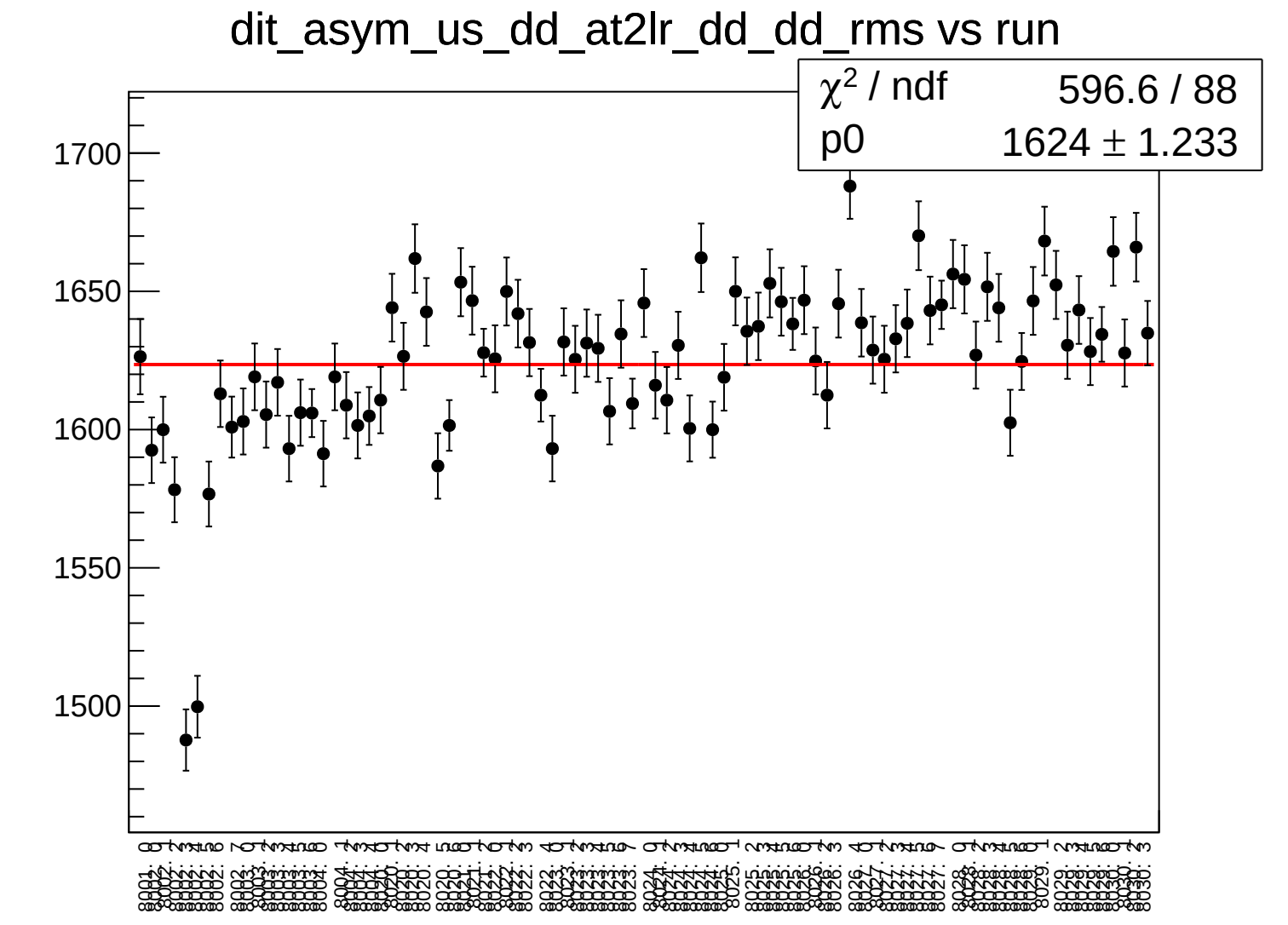

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 97.4 / 88
p0 −133.1± 1479
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 187
Std Dev 0
2
1
0
−1
−2

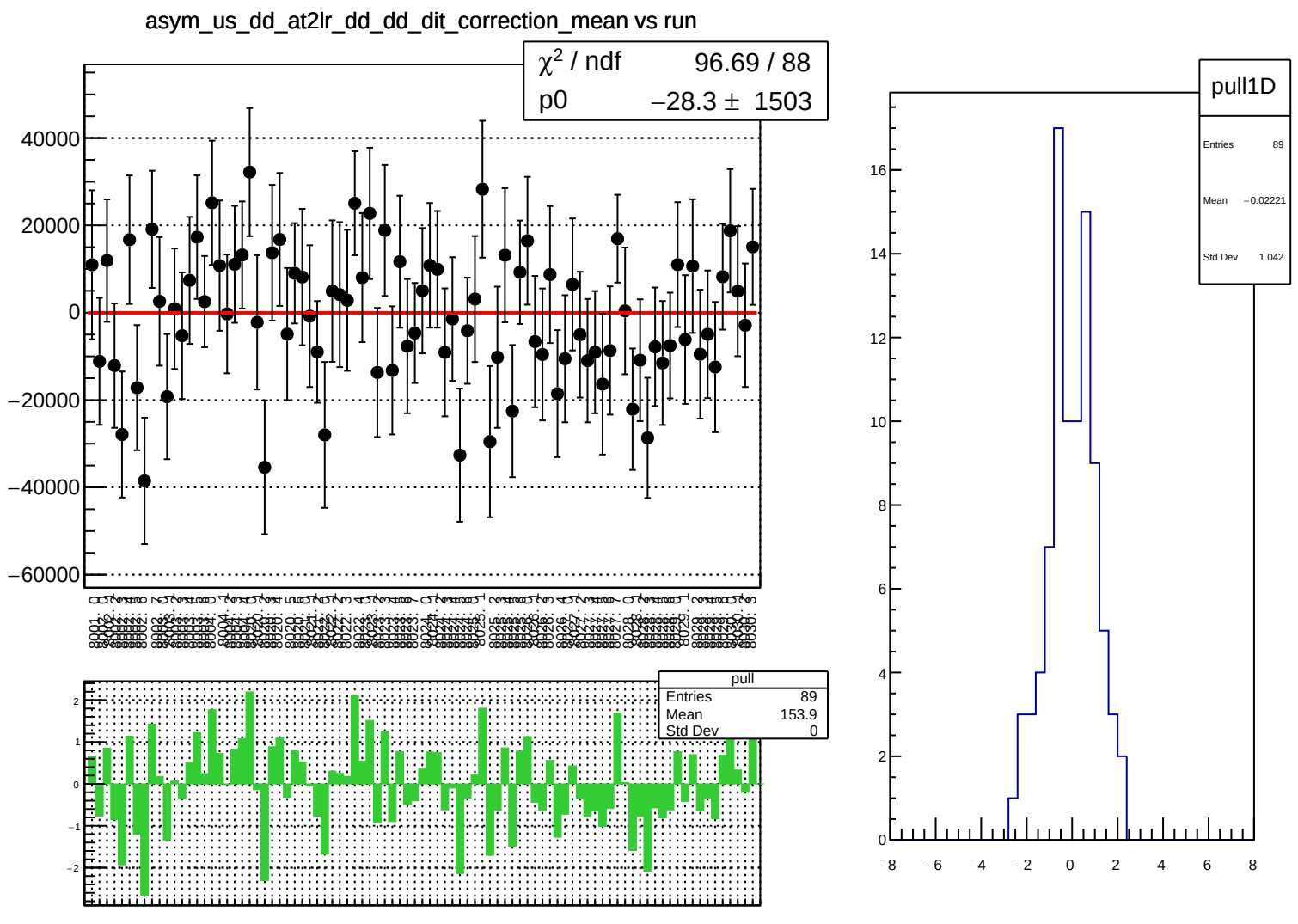

pull1D
Entries 89
Mean −0.01748
Std Dev 1.046
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

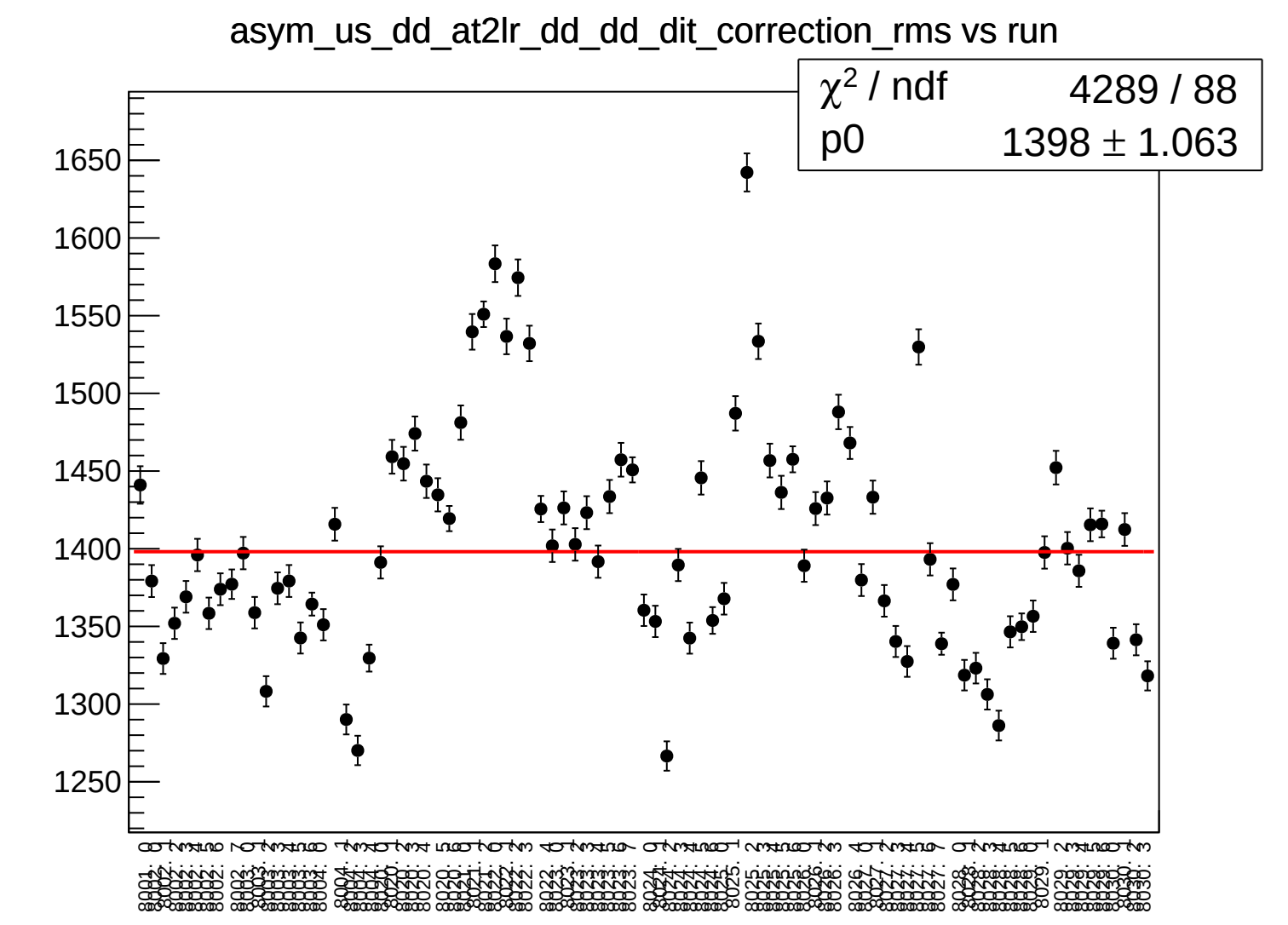

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 5192 / 88
p0 1376 ± 1.046
1600
1550
1500
1450
1400
1350
1300
1250
1200

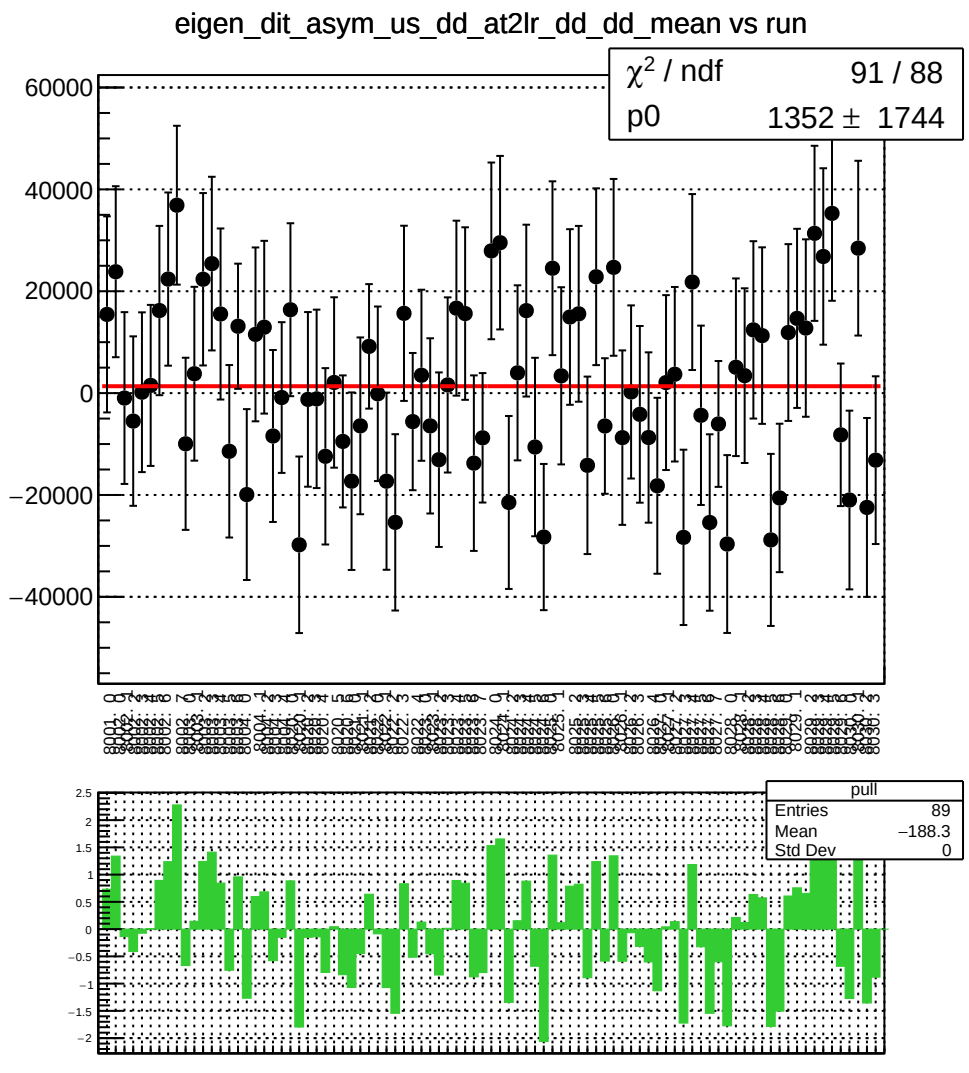

dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 91 / 88
p0 1352 ± 1744
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −188.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

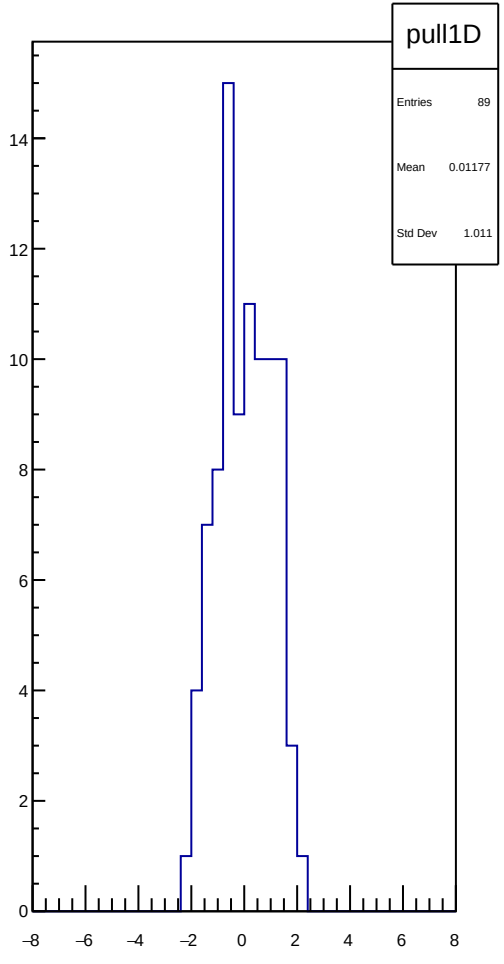

pull1D
Entries 89
Mean 0.01177
Std Dev 1.011
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

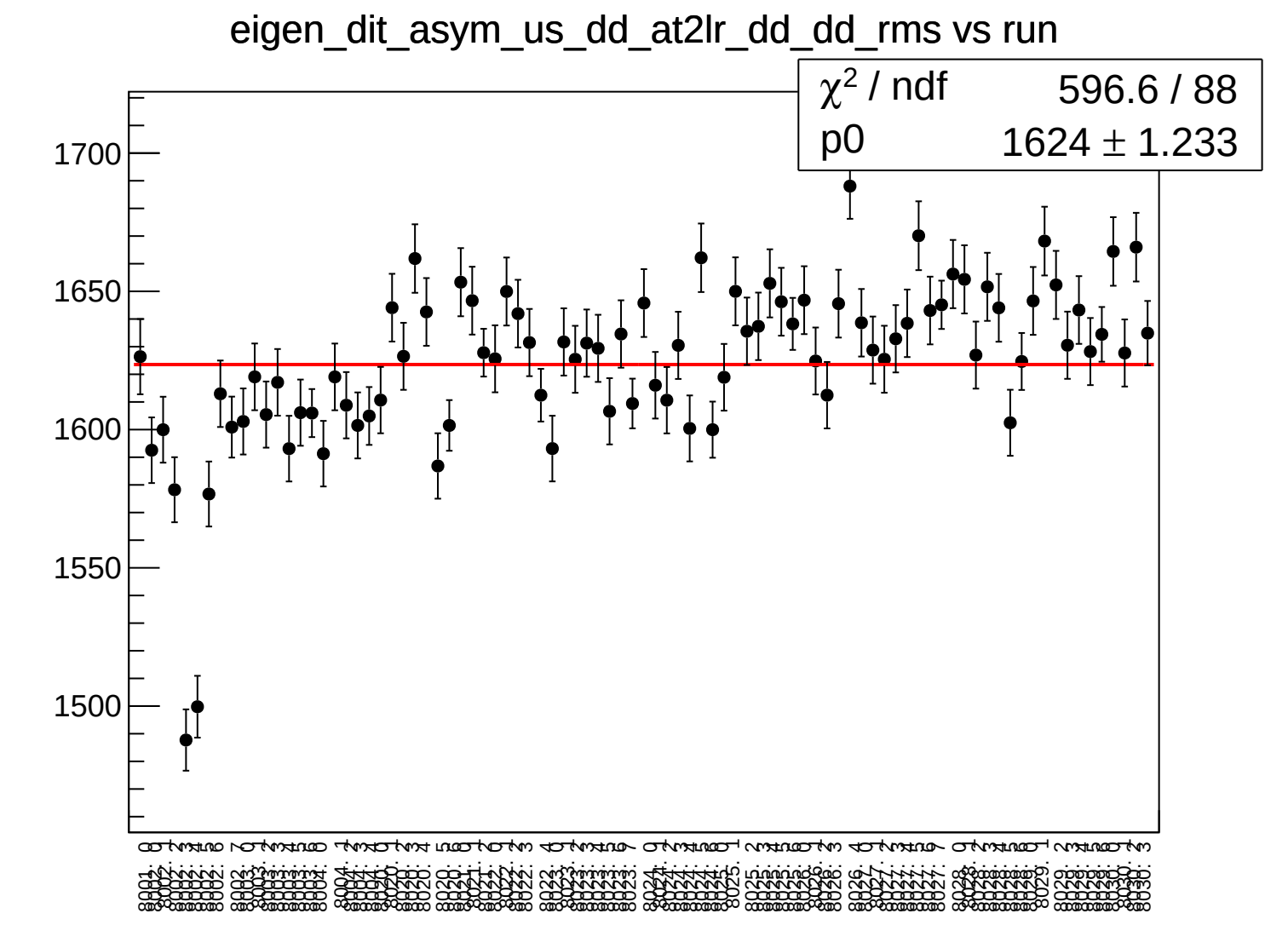

dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ^2 / ndf 596.6 / 88
p0 1624 ± 1.233
1700
1650
1600
1550
1500

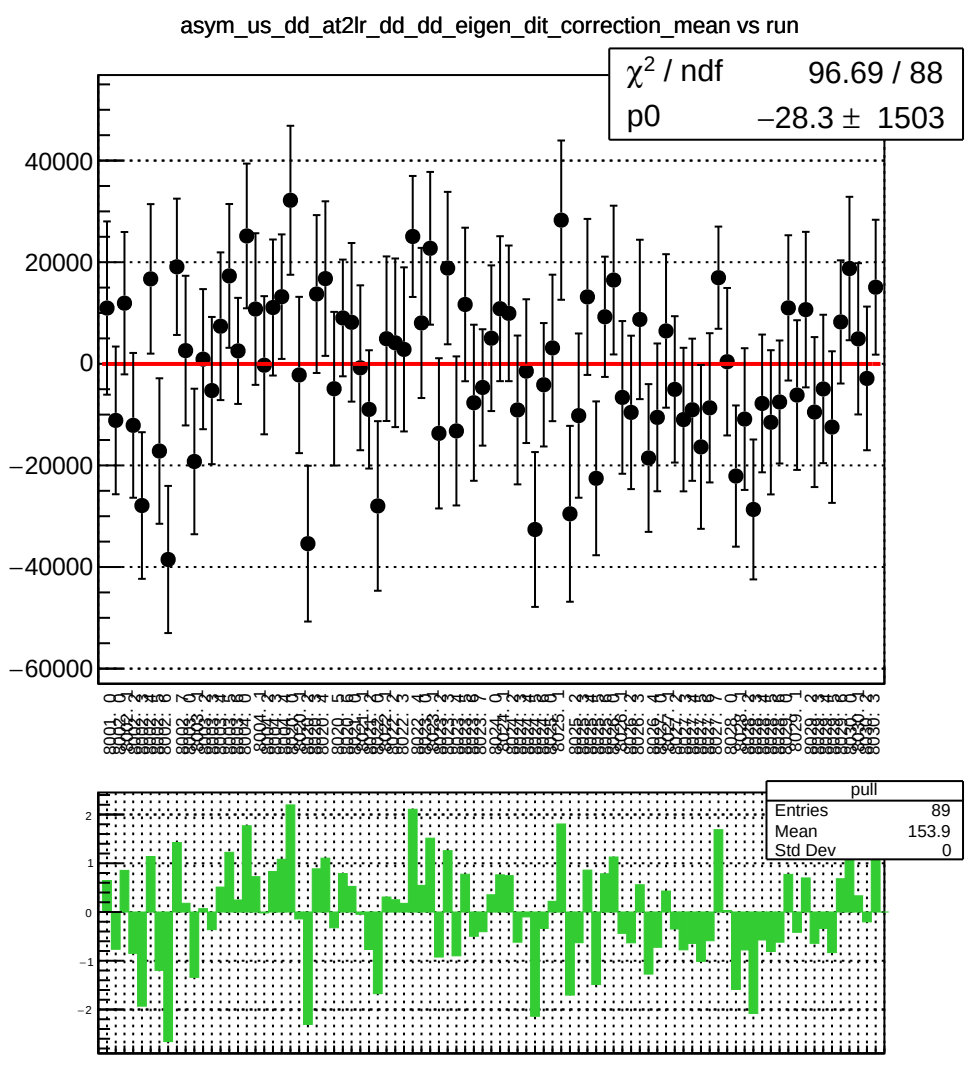

asym_us_dd_at2lr_dd_dd_dit_correction_mean vs run
χ² / ndf 96.69 / 88
p0 −28.3 ± 1503
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 153.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.02221
Std Dev 1.042
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

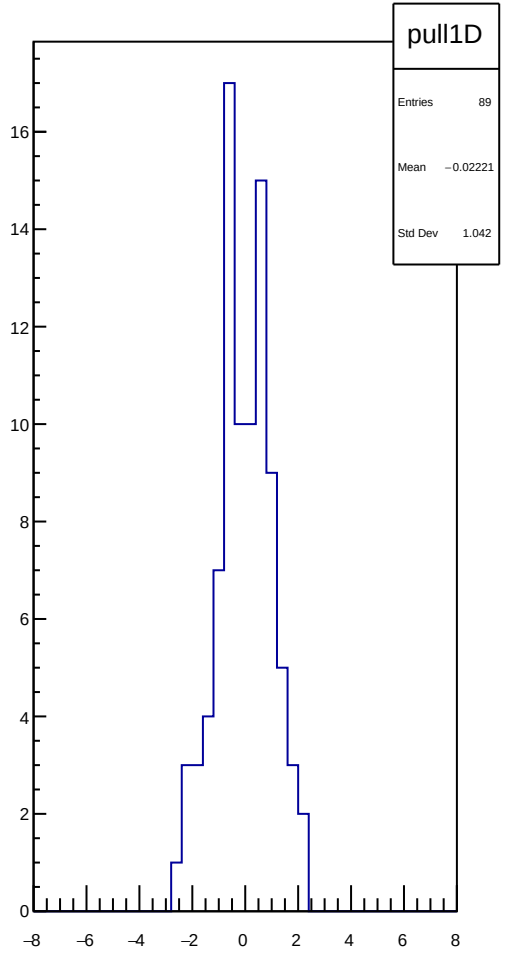

asym_us_dd_at2lr_dd_dd_dit_correction_rms vs run
χ² / ndf 4289 / 88
p0 1398 ± 1.063
1650
1600
1550
1500
1450
1400
1350
1300
1250

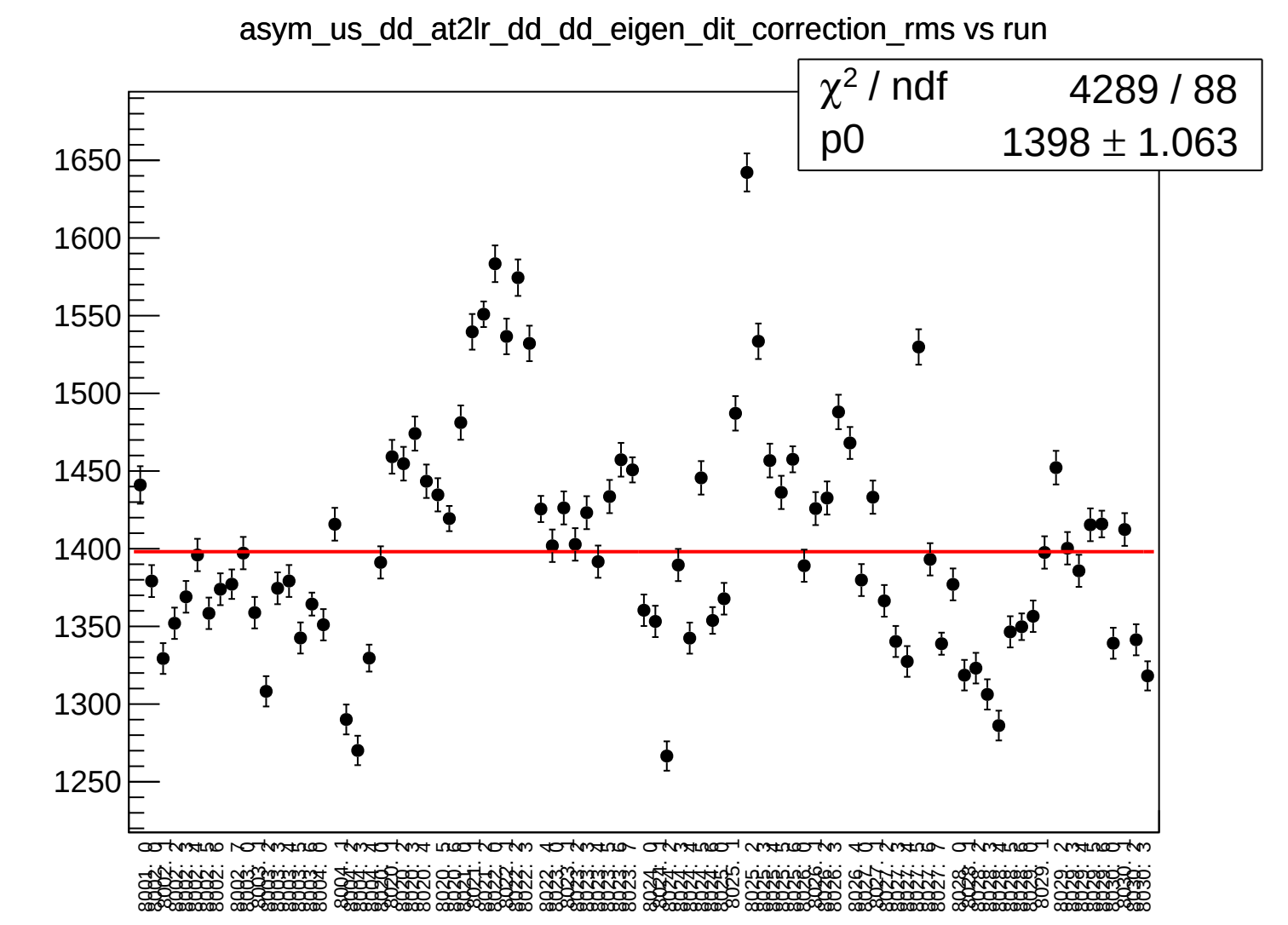

eigen_dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 91 / 88
p0 1352 ± 1744
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −188.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

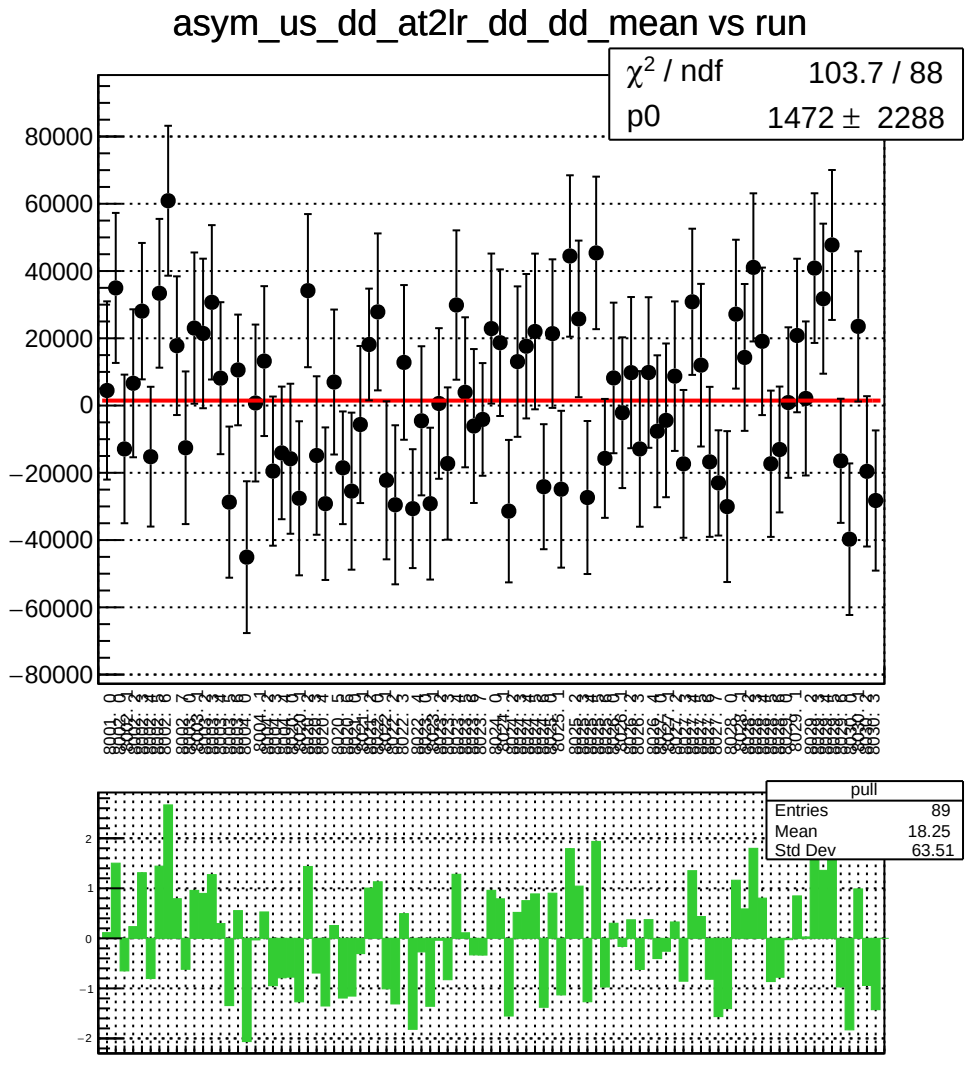

pull1D
Entries 89
Mean 0.01177
Std Dev 1.011
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

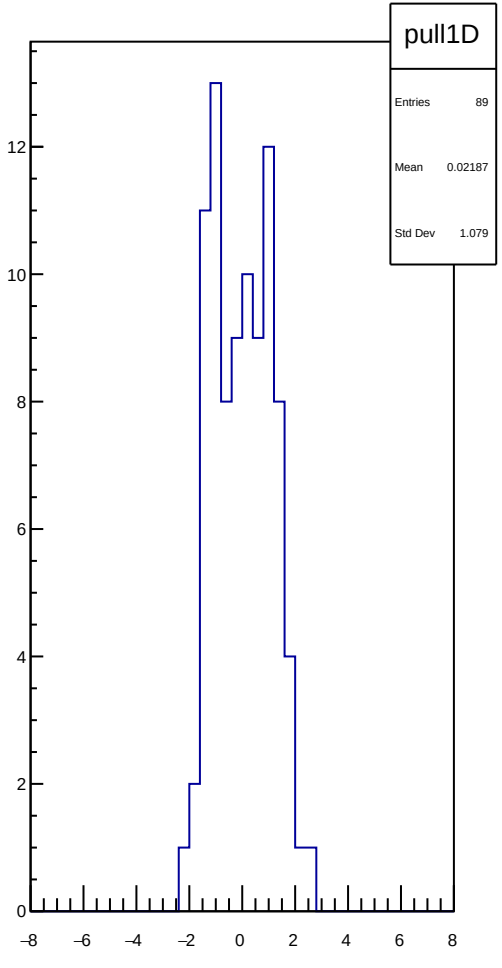

eigen_dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 596.6 / 88
p0 1624 ± 1.233
1700
1650
1600
1550
1500

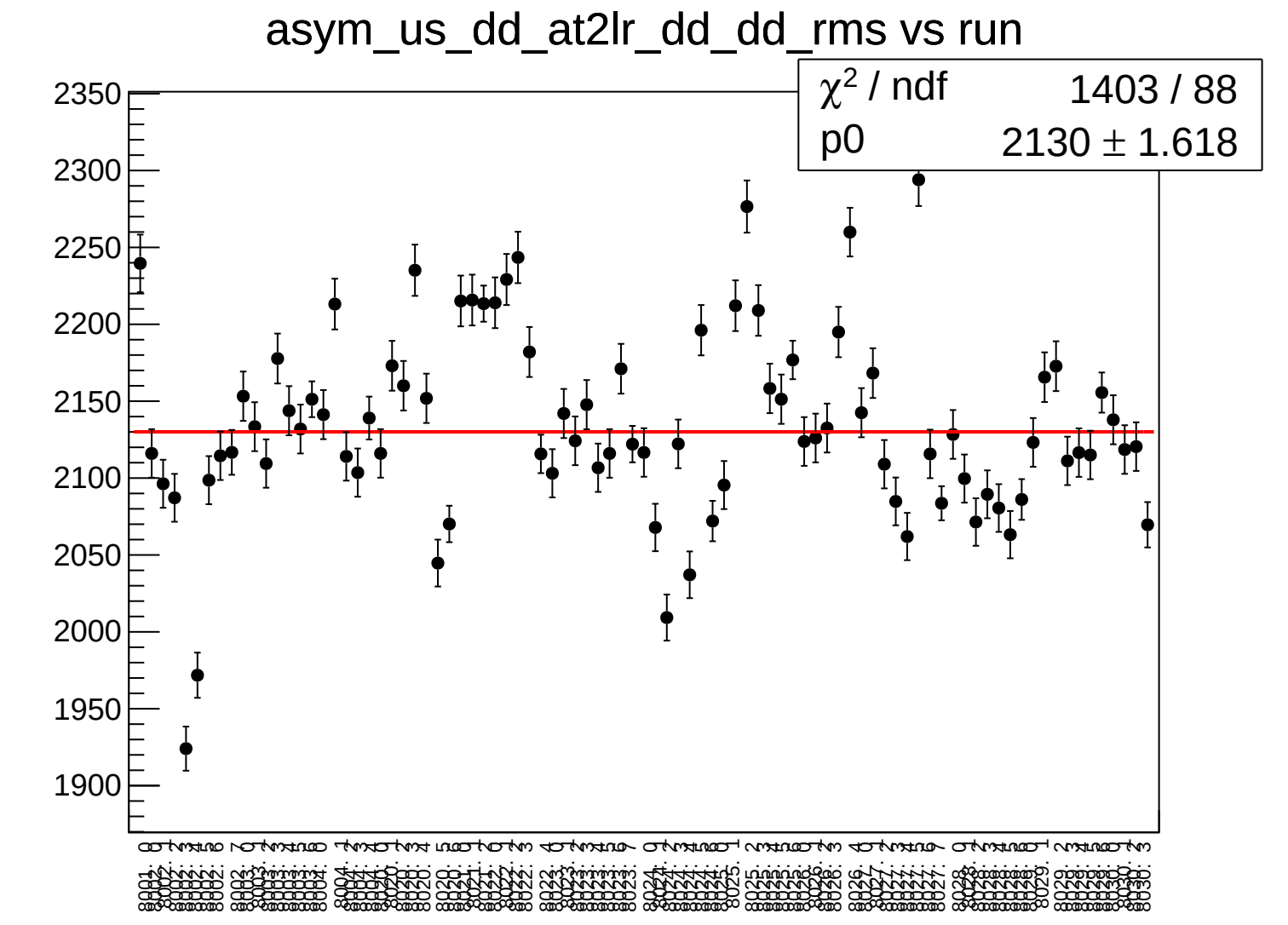

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 96.69 / 88
p0 −28.3 ± 1503
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 153.9
Std Dev 0
2
1
0
−1
−2

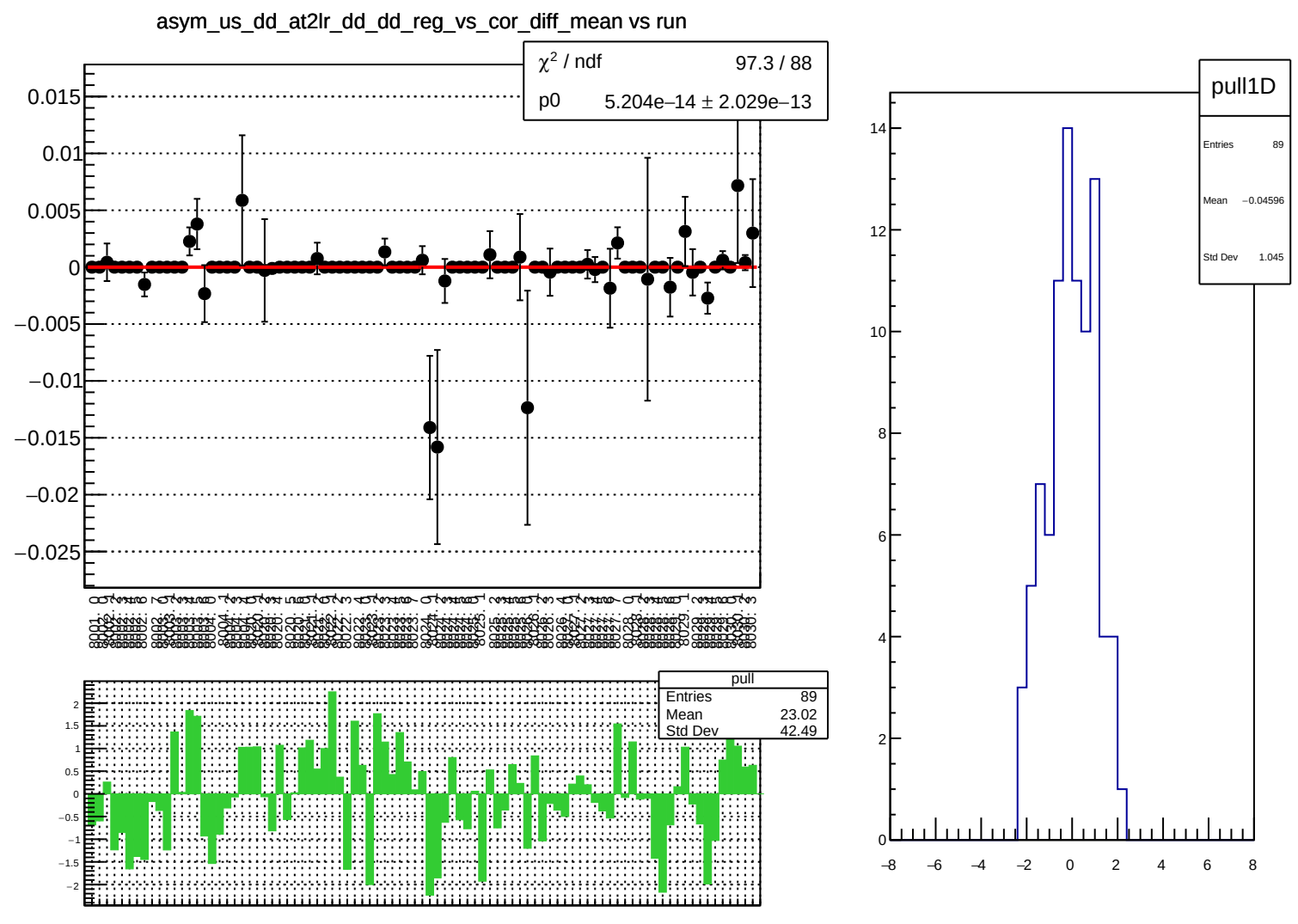

pull1D
Entries 89
Mean −0.02221
Std Dev 1.042
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

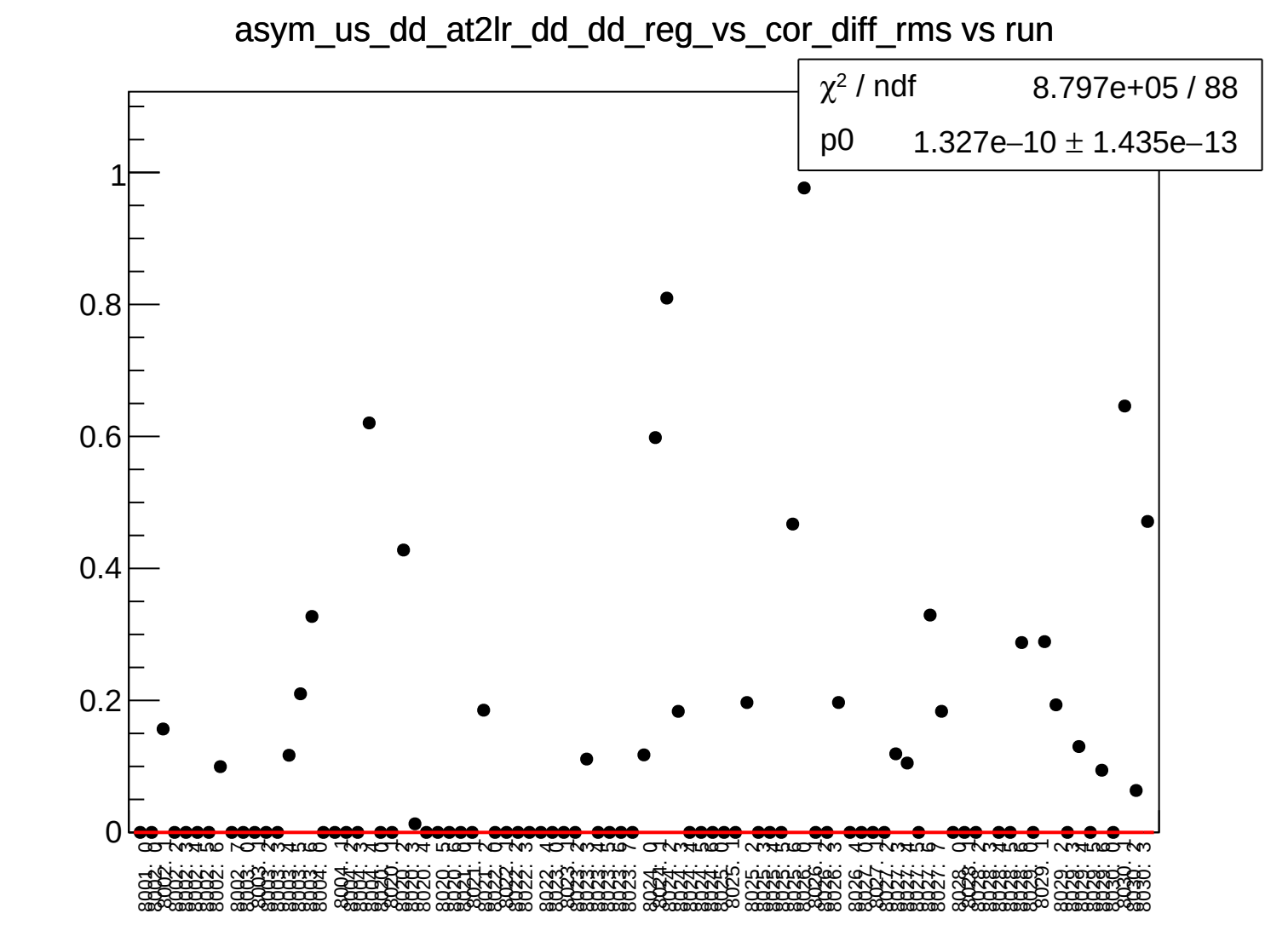

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 4289 / 88
p0 1398 ± 1.063
1650
1600
1550
1500
1450
1400
1350
1300
1250

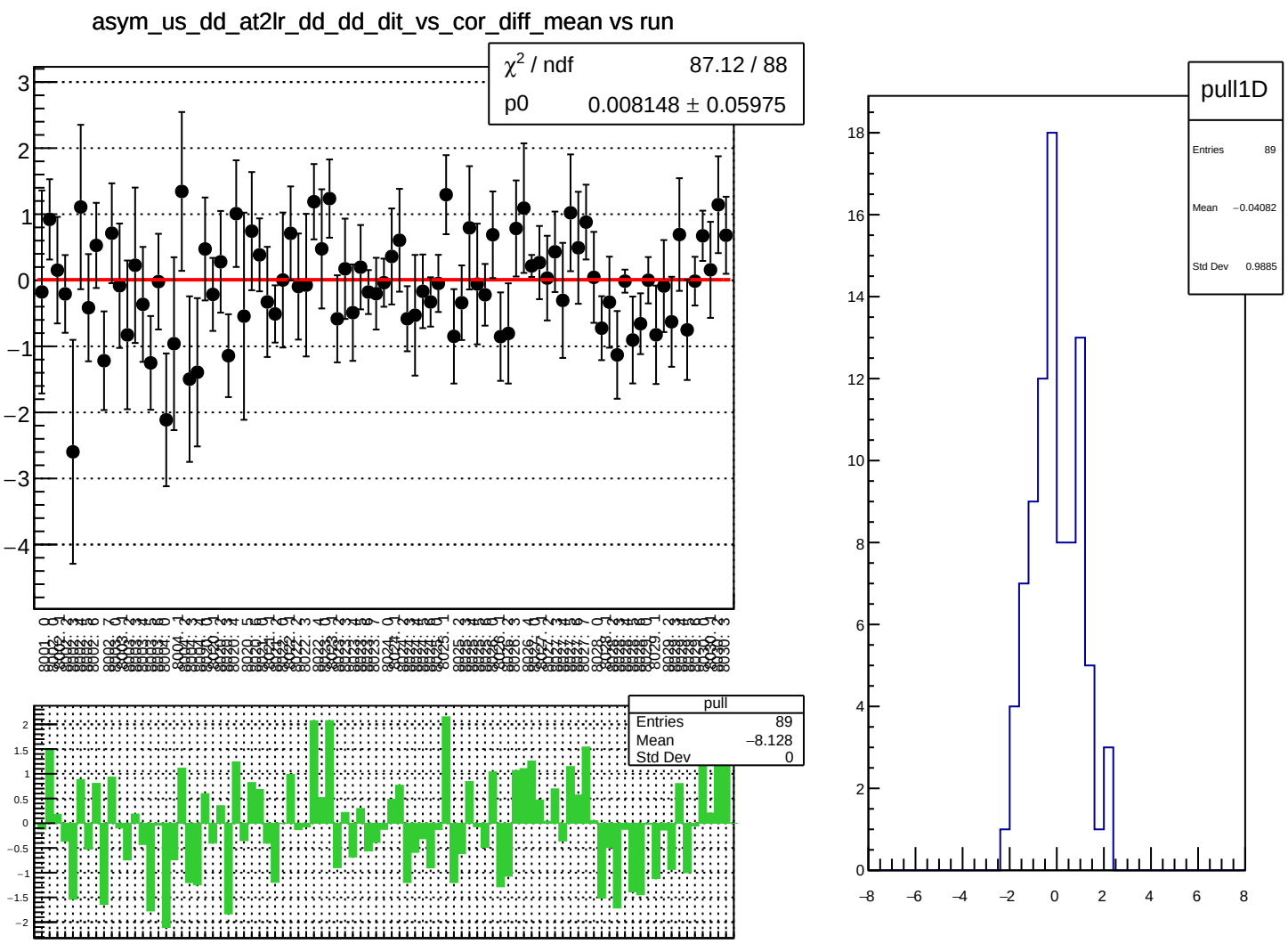

asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 103.7 / 88
p0 1472 ± 2288
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean 18.25
Std Dev 63.51
2
1
0
−1
−2

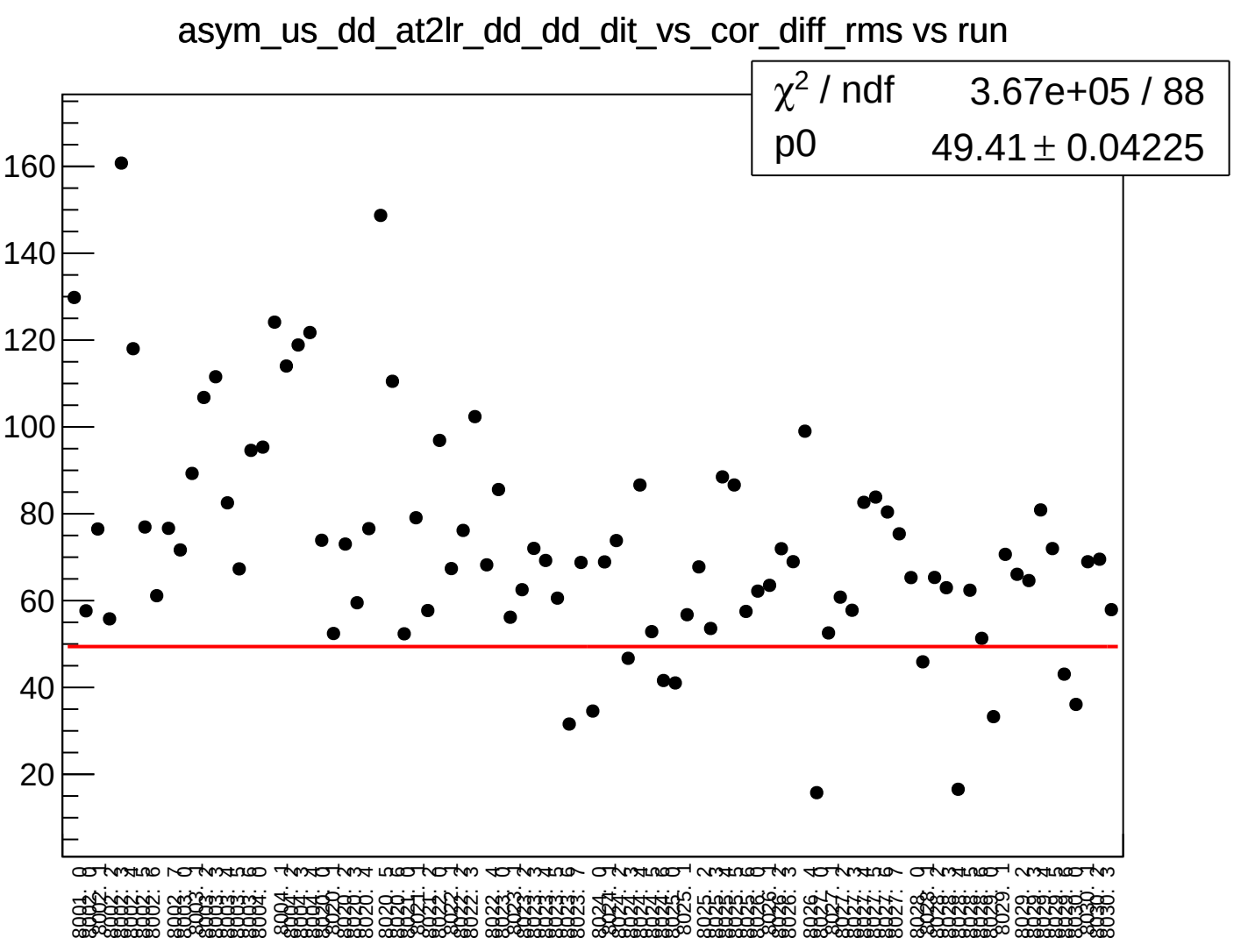

pull1D
Entries 89
Mean 0.02187
Std Dev 1.079
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

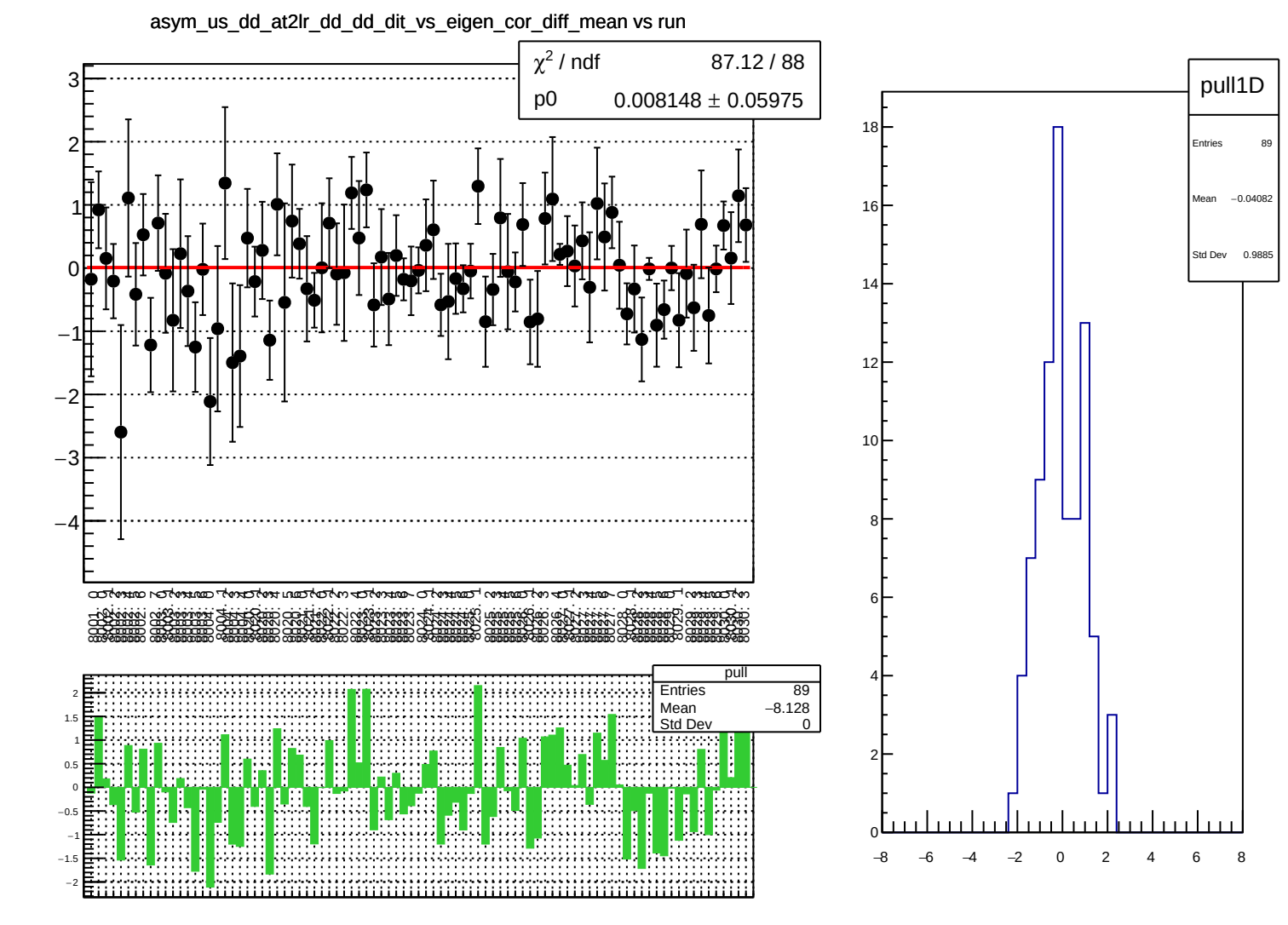

asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 1403 / 88
p0 2130 ± 1.618
2350
2300
2250
2200
2150
2100
2050
2000
1950
1900

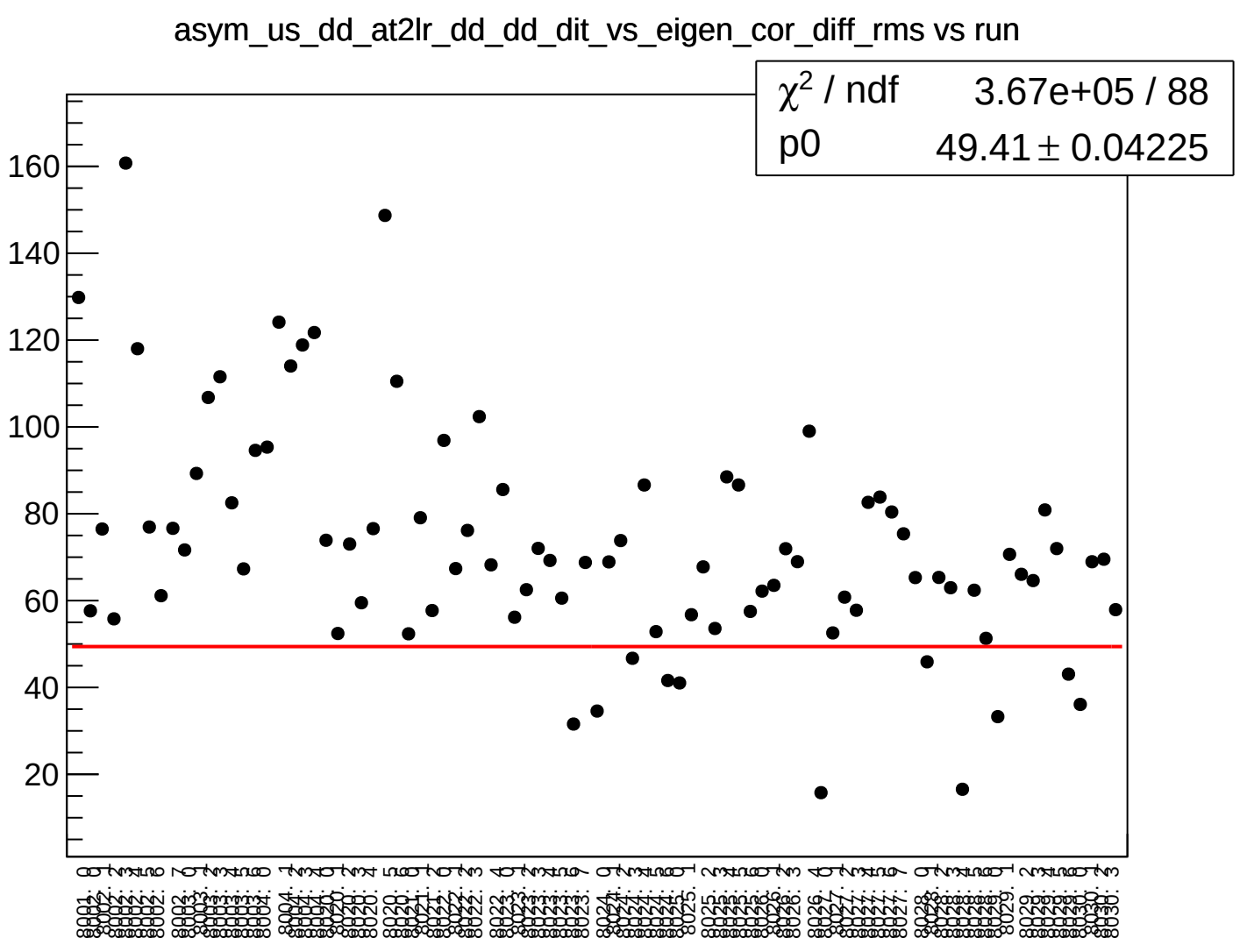

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 97.3 / 88
p0 5.204e−14 ± 2.029e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
−0.025
pull
Entries 89
Mean 23.02
Std Dev 42.49
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean −0.04596
Std Dev 1.045
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

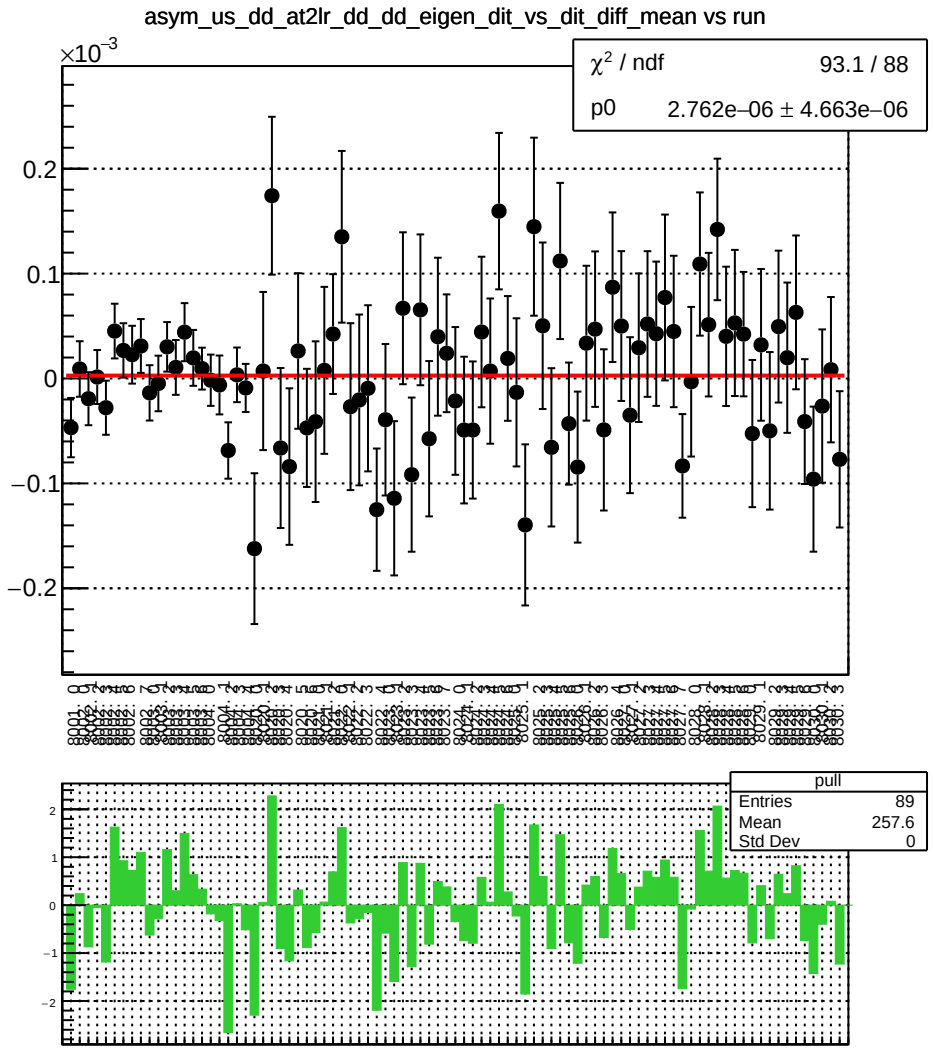

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.797e+05 / 88
p0 1.327e−10 ± 1.435e−13
1
0.8
0.6
0.4
0.2
0

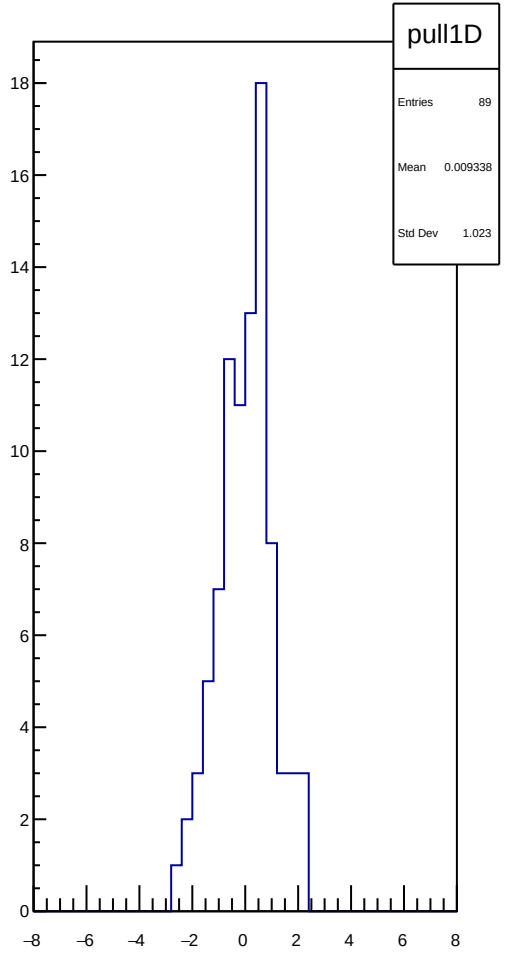

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 87.12 / 88
p0 0.008148 ± 0.05975
pull
Entries 89
Mean −8.128
Std Dev 0
pull1D
Entries 89
Mean −0.04082
Std Dev 0.9885

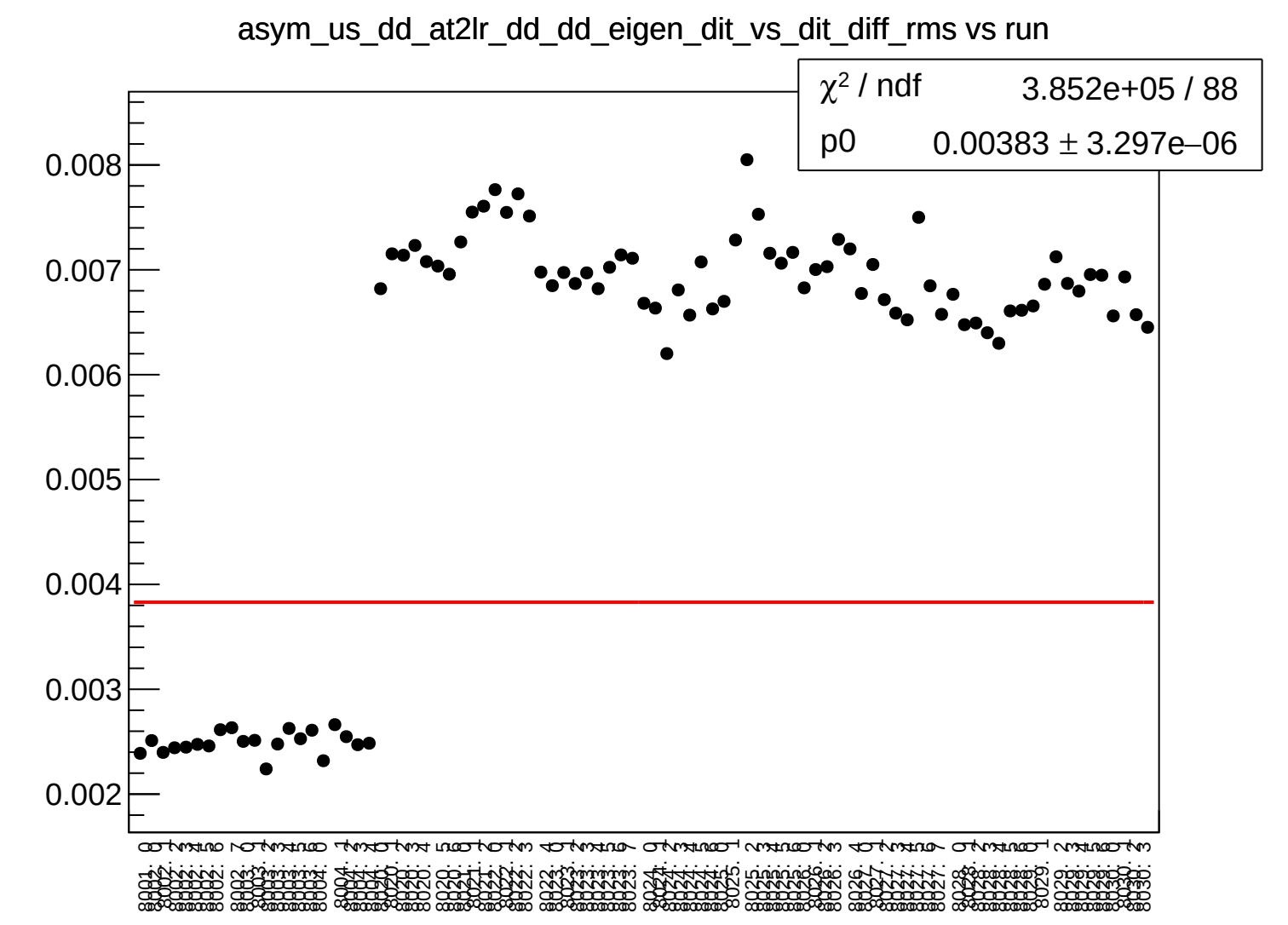

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.67e+05 / 88
p0 49.41 ± 0.04225
160
140
120
100
80
60
40
20

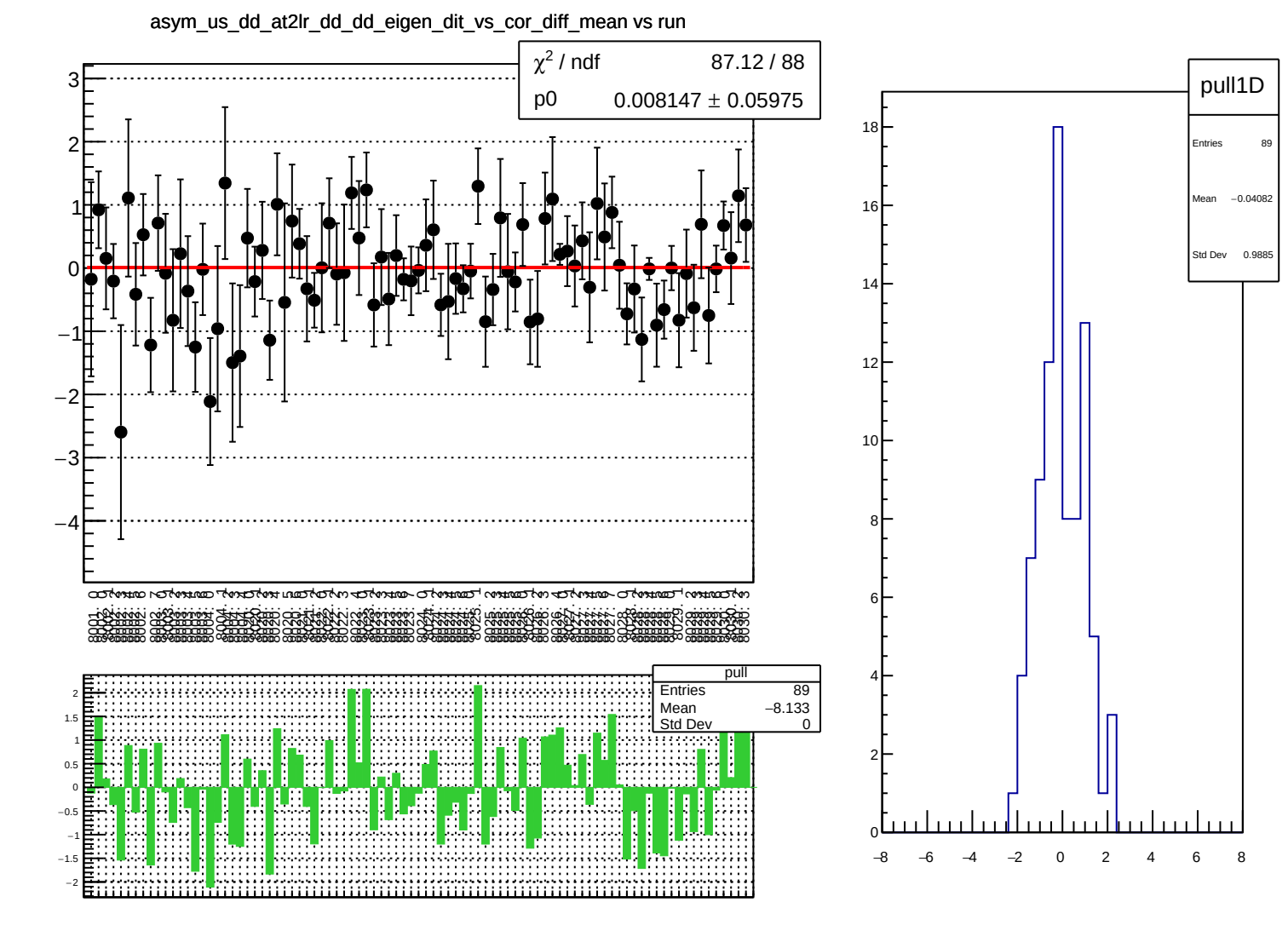

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.12 / 88
p0 0.008148 ± 0.05975
pull
Entries 89
Mean −8.128
Std Dev 0
pull1D
Entries 89
Mean −0.04082
Std Dev 0.9885

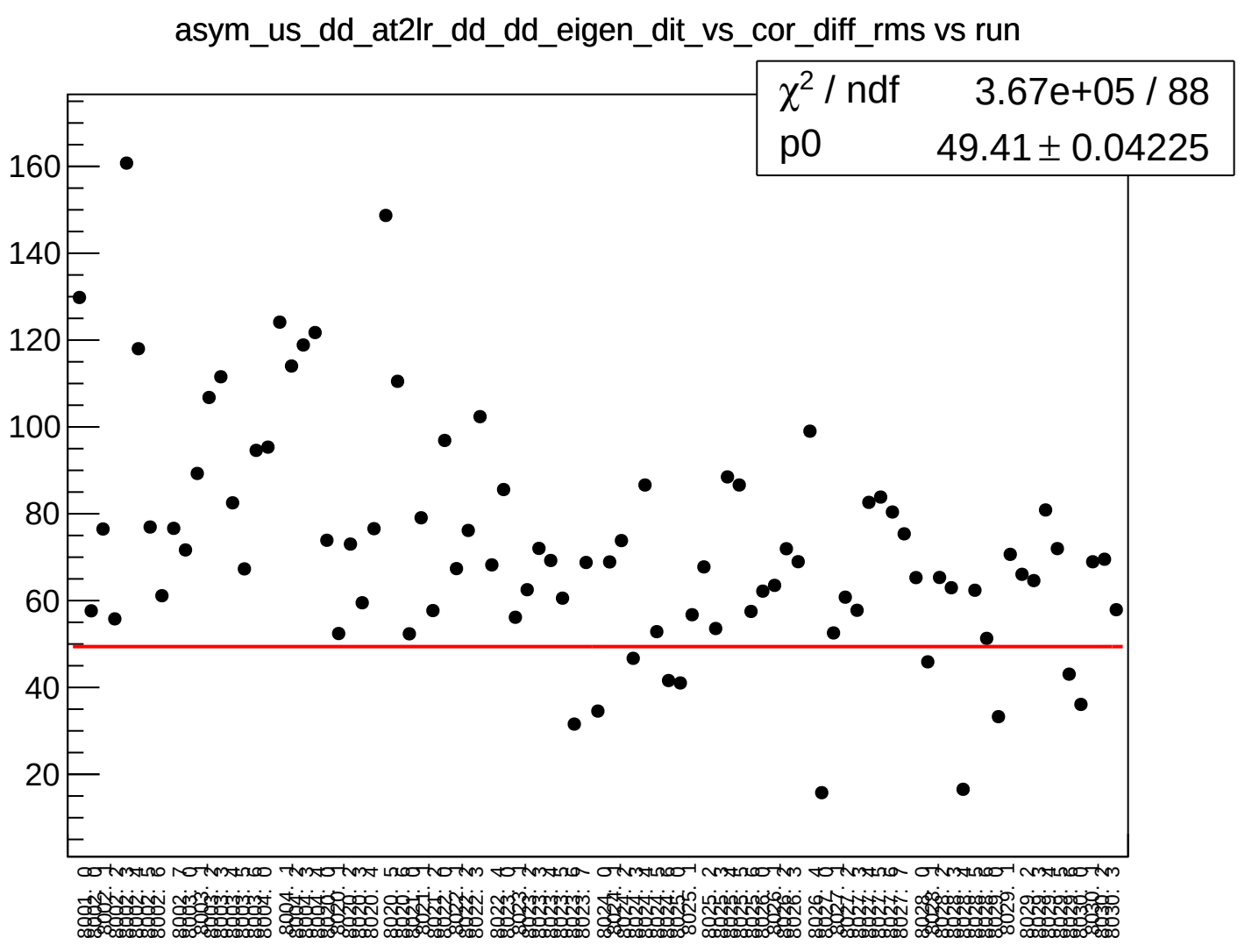

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.67e+05 / 88
p0 49.41 ± 0.04225
160
140
120
100
80
60
40
20

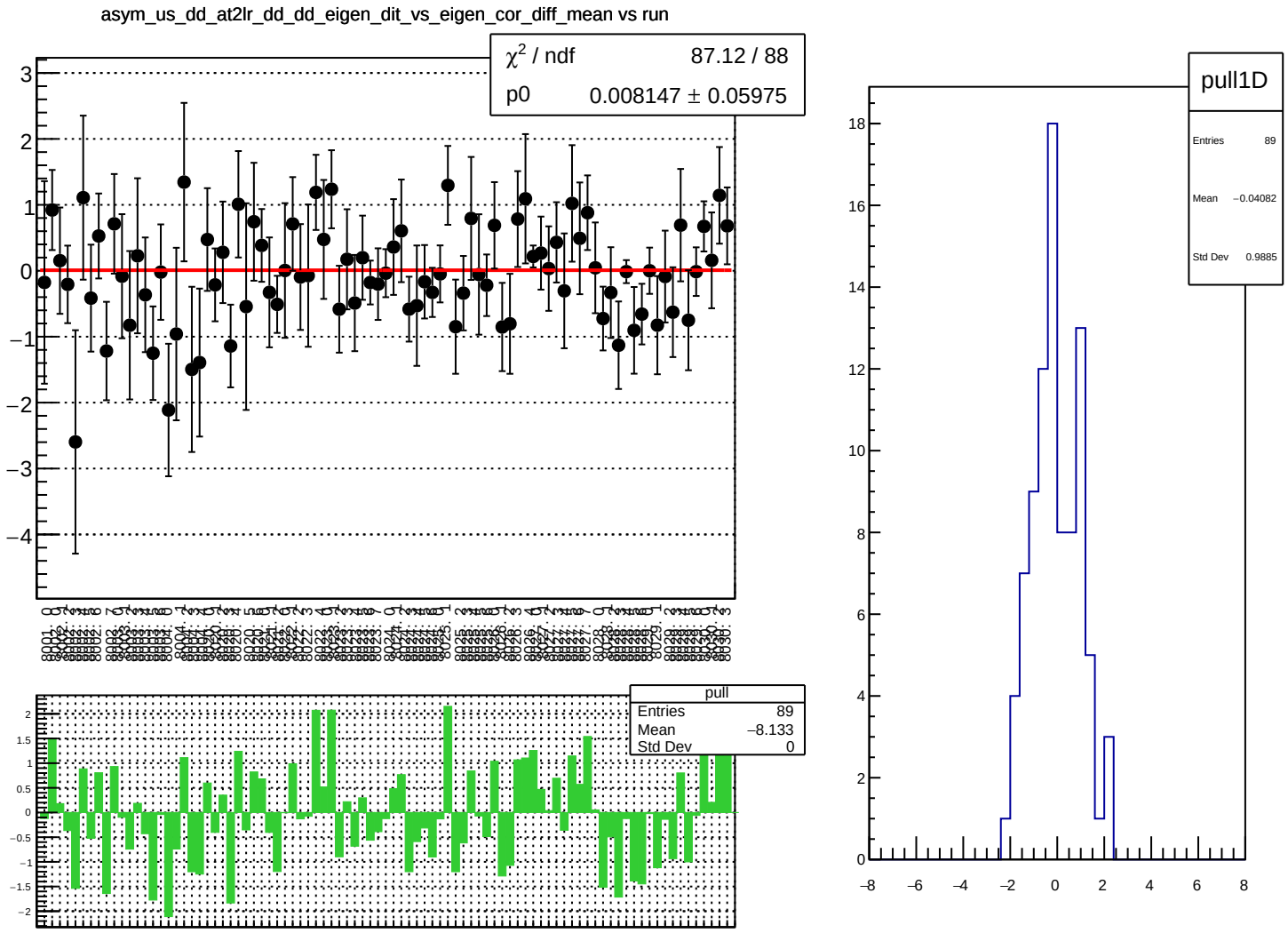

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.1 / 88
p0 2.762e−06 ± 4.663e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 89
Mean 257.6
Std Dev 0
2
1
0
−1
−2

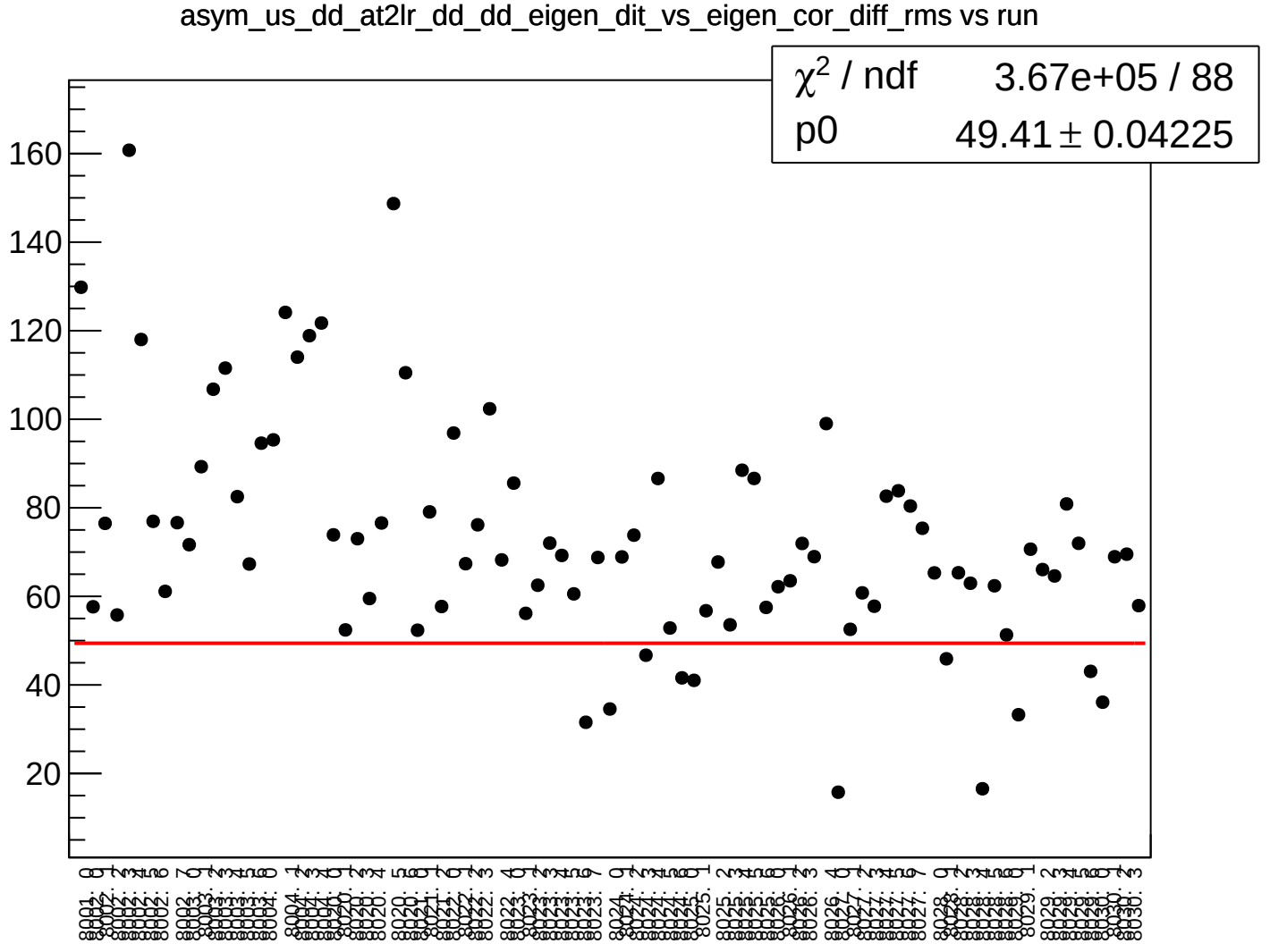

pull1D
Entries 89
Mean 0.009338
Std Dev 1.023
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

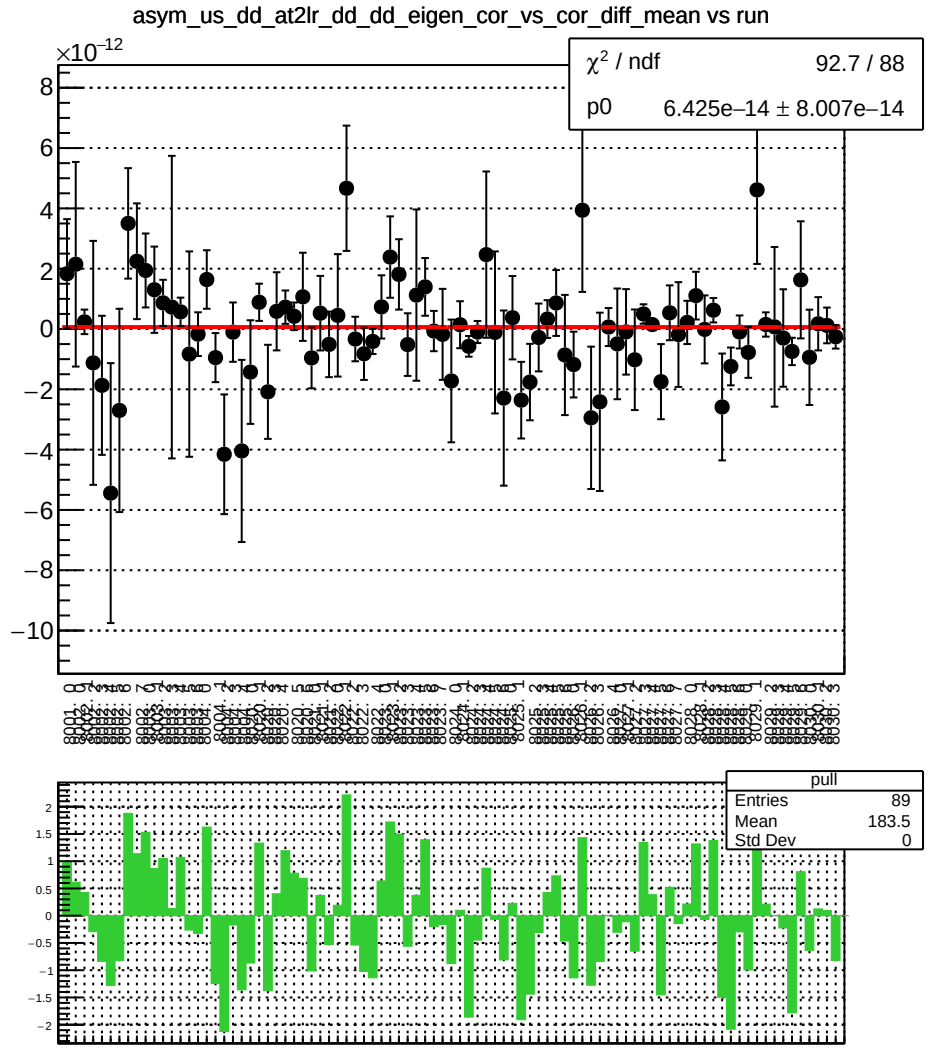

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.852e+05 / 88
p0 0.00383 ± 3.297e–06
0.008
0.007
0.006
0.005
0.004
0.003
0.002

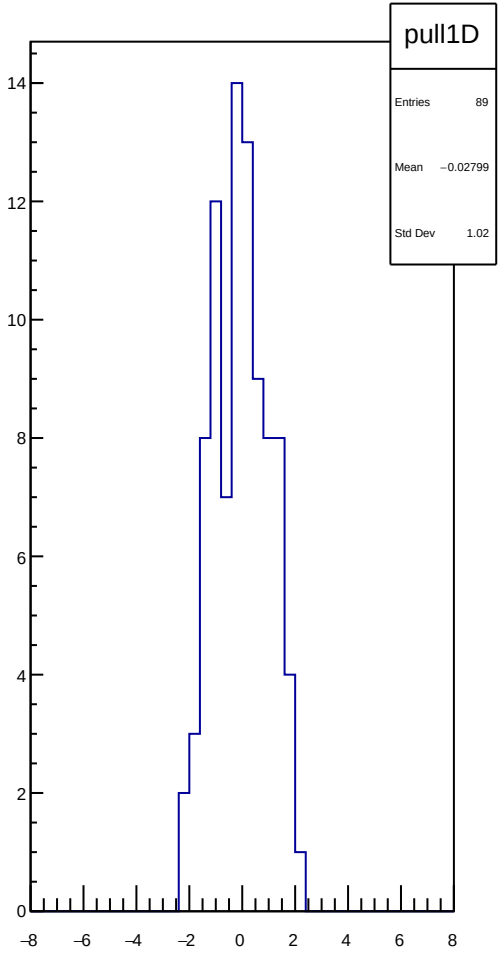

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.12 / 88
p0 0.008147 ± 0.05975
pull
Entries 89
Mean −8.133
Std Dev 0
pull1D
Entries 89
Mean −0.04082
Std Dev 0.9885

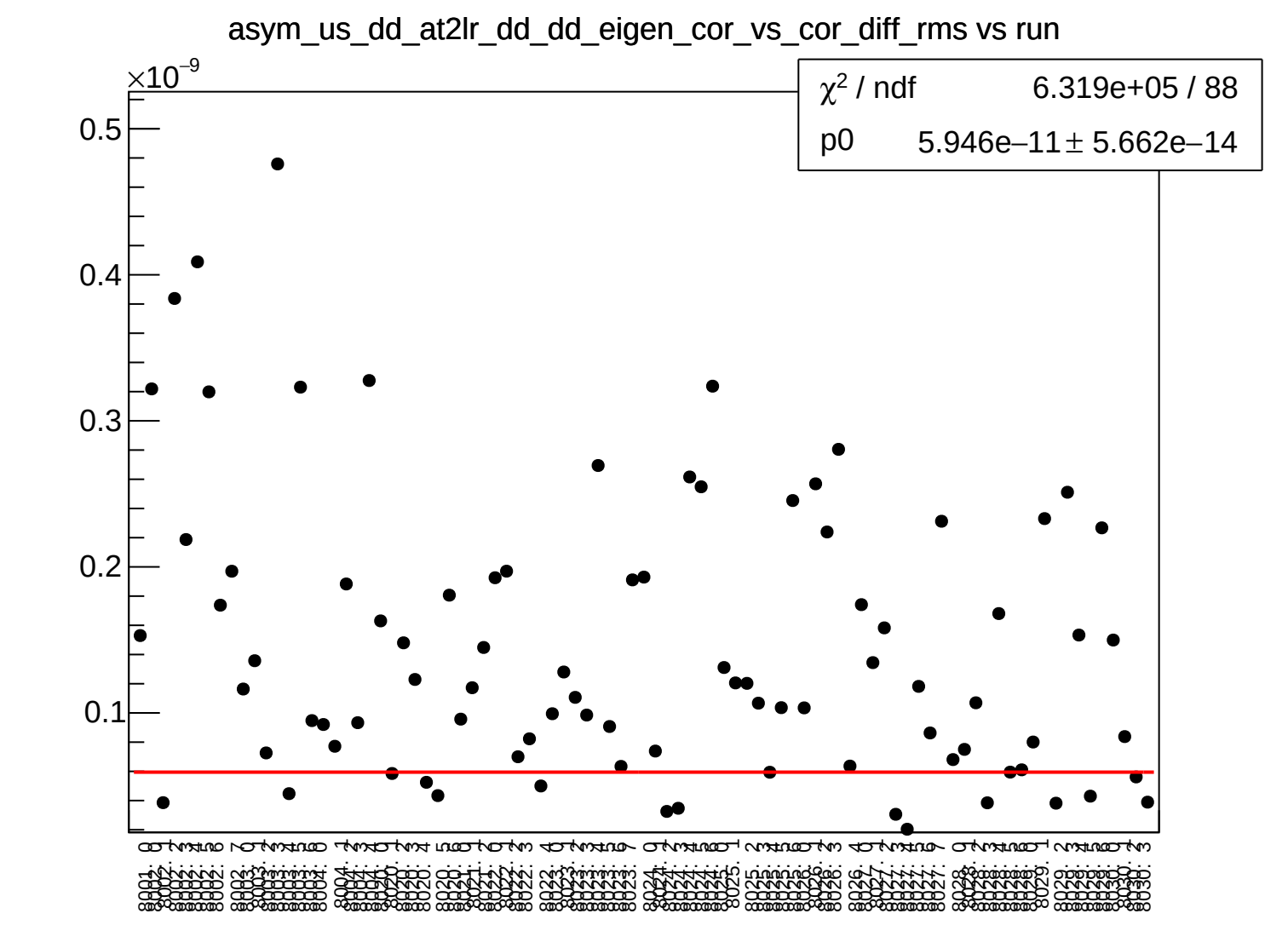

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.67e+05 / 88
p0 49.41 ± 0.04225
160
140
120
100
80
60
40
20

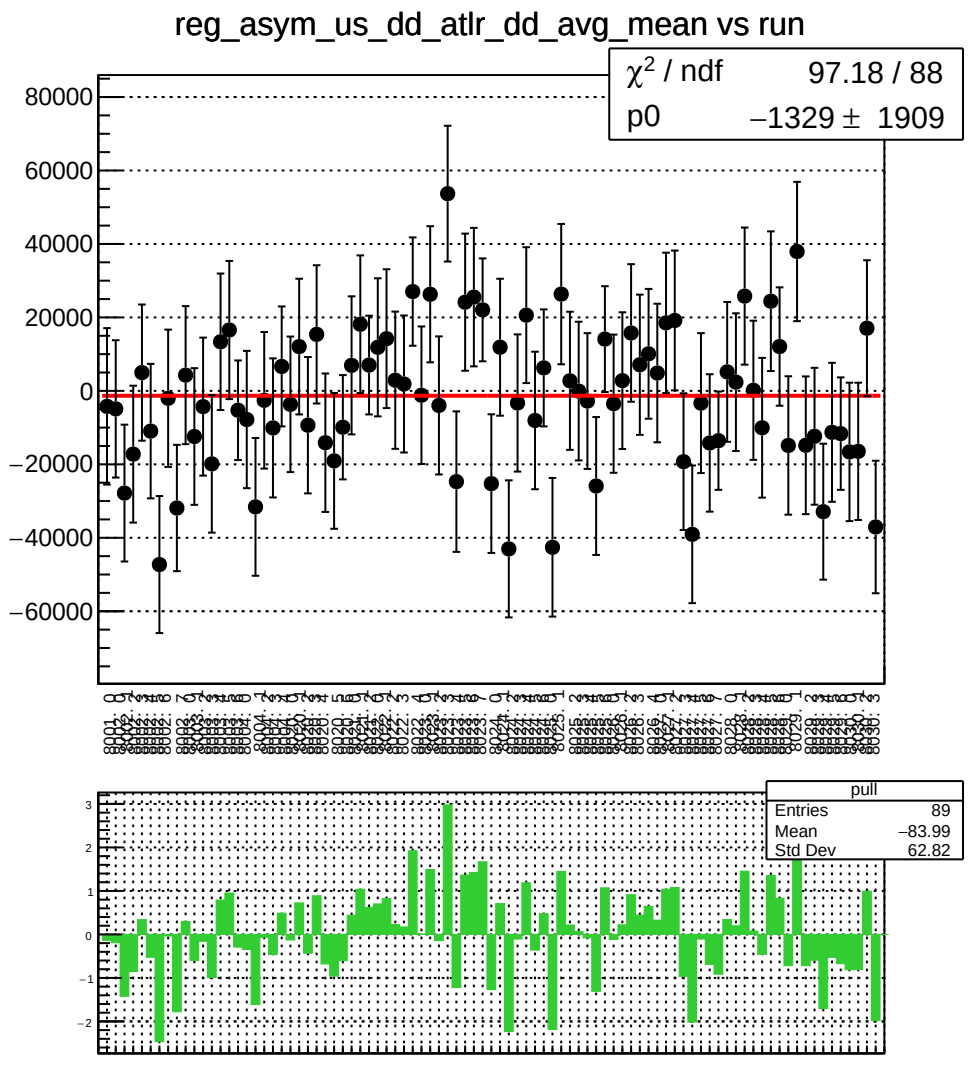

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.12 / 88
p0 0.008147 ± 0.05975
pull
Entries 89
Mean −8.133
Std Dev 0
pull1D
Entries 89
Mean −0.04082
Std Dev 0.9885

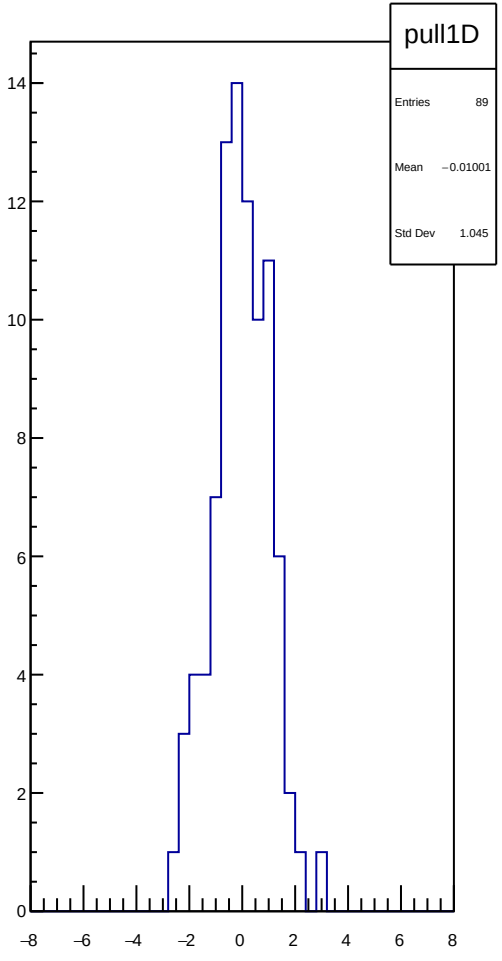

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.67e+05 / 88
p0 49.41 ± 0.04225
160
140
120
100
80
60
40
20

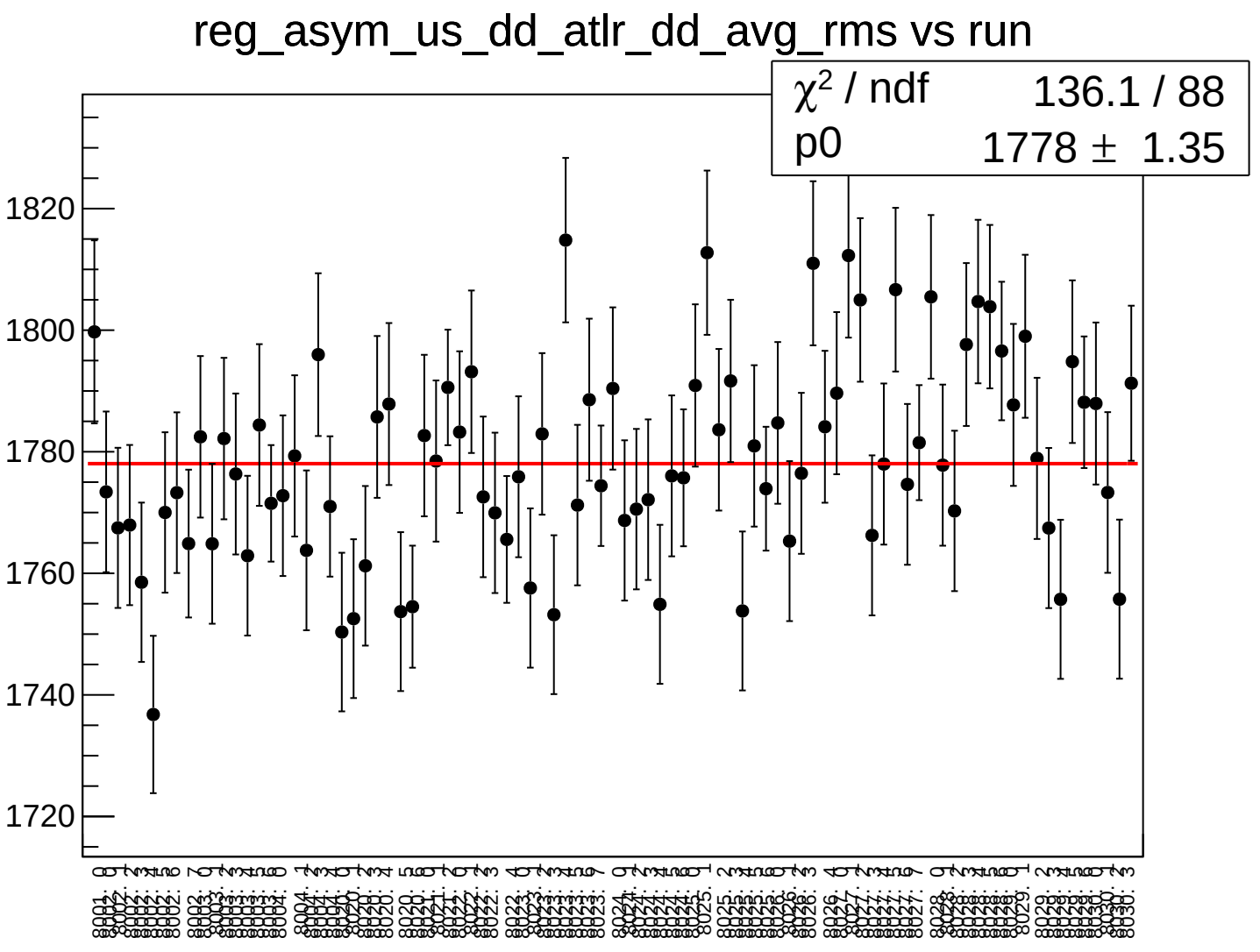

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.7 / 88
p0 6.425e−14 ± 8.007e−14
pull
Entries 89
Mean 183.5
Std Dev 0

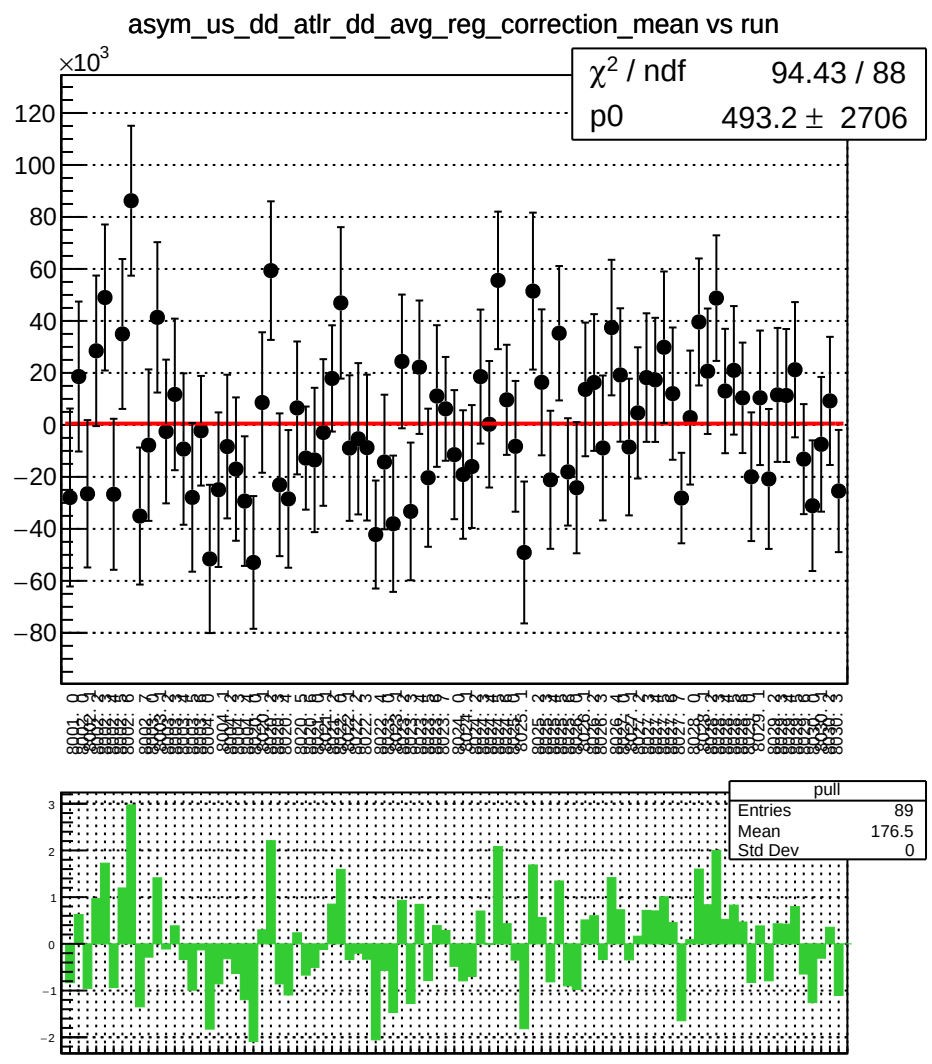

pull1D
Entries 89
Mean −0.02799
Std Dev 1.02

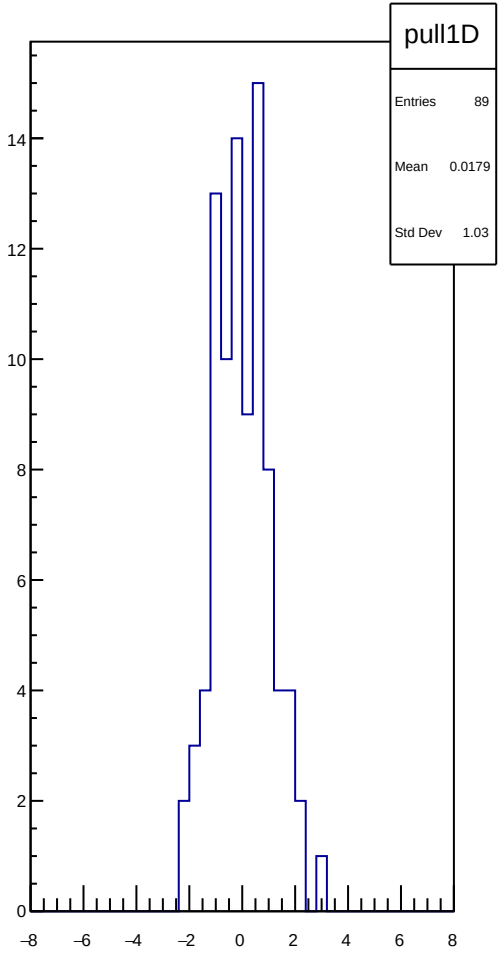

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.319e+05 / 88
p0 5.946e−11 ± 5.662e−14
0.5
0.4
0.3
0.2
0.1

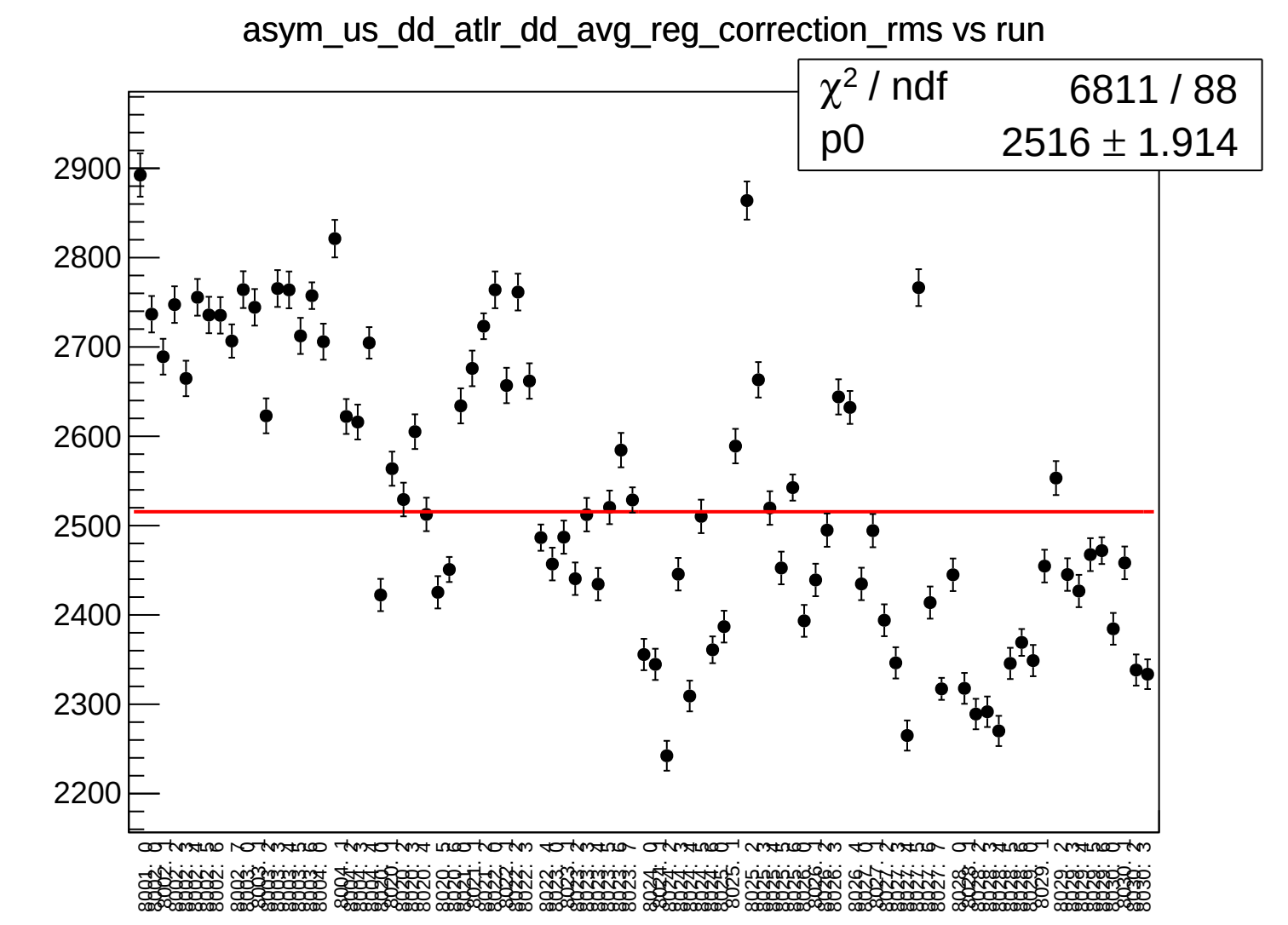

reg_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 97.18 / 88
p0 −1329 ± 1909
pull
Entries 89
Mean −83.99
Std Dev 62.82

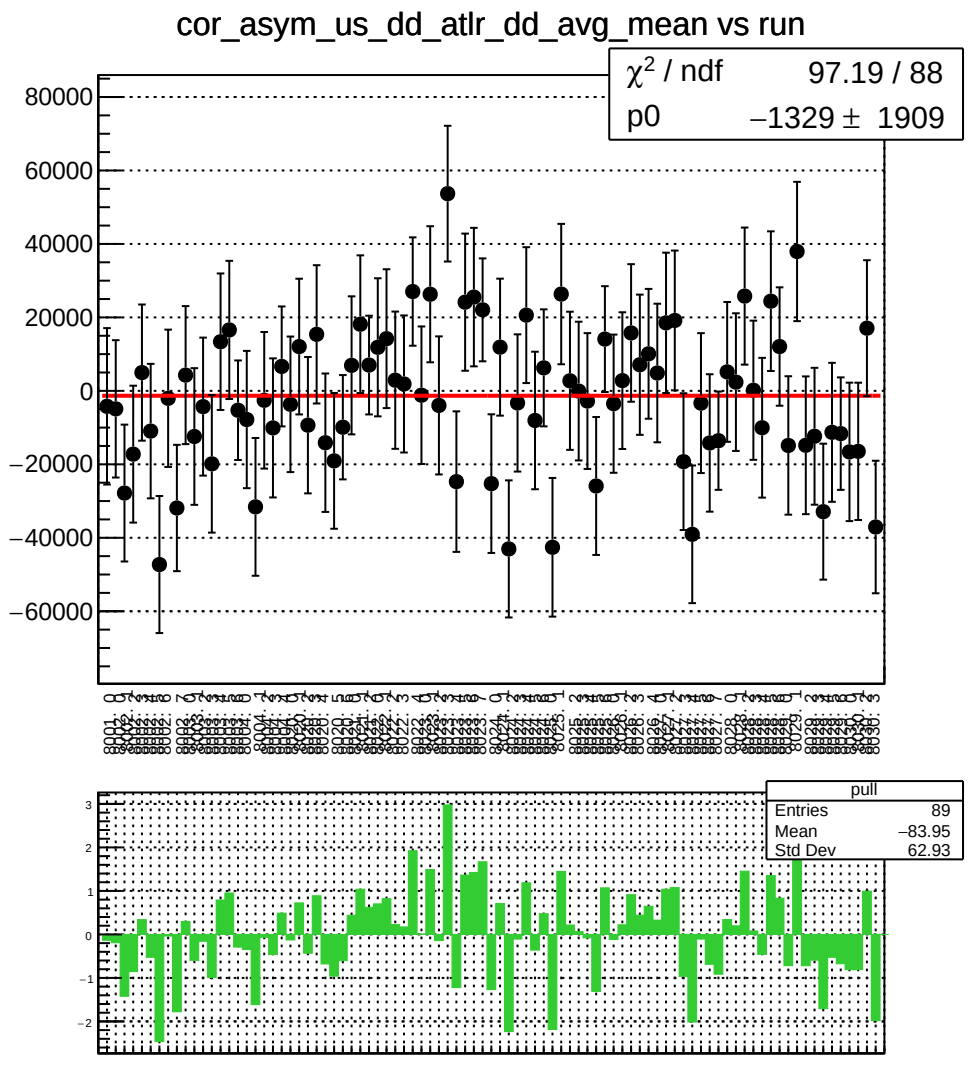

pull1D
Entries 89
Mean −0.01001
Std Dev 1.045

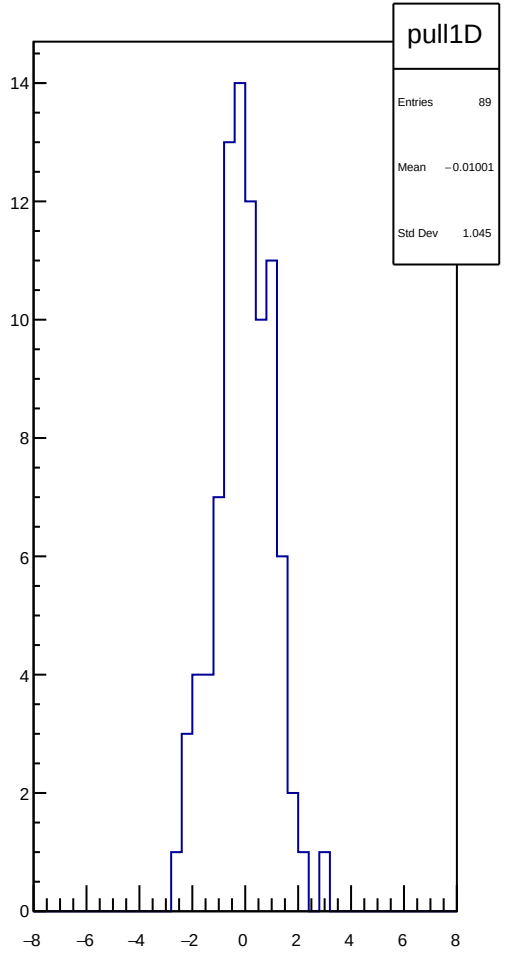

reg_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 136.1 / 88
p0 1778 ± 1.35
1820
1800
1780
1760
1740
1720

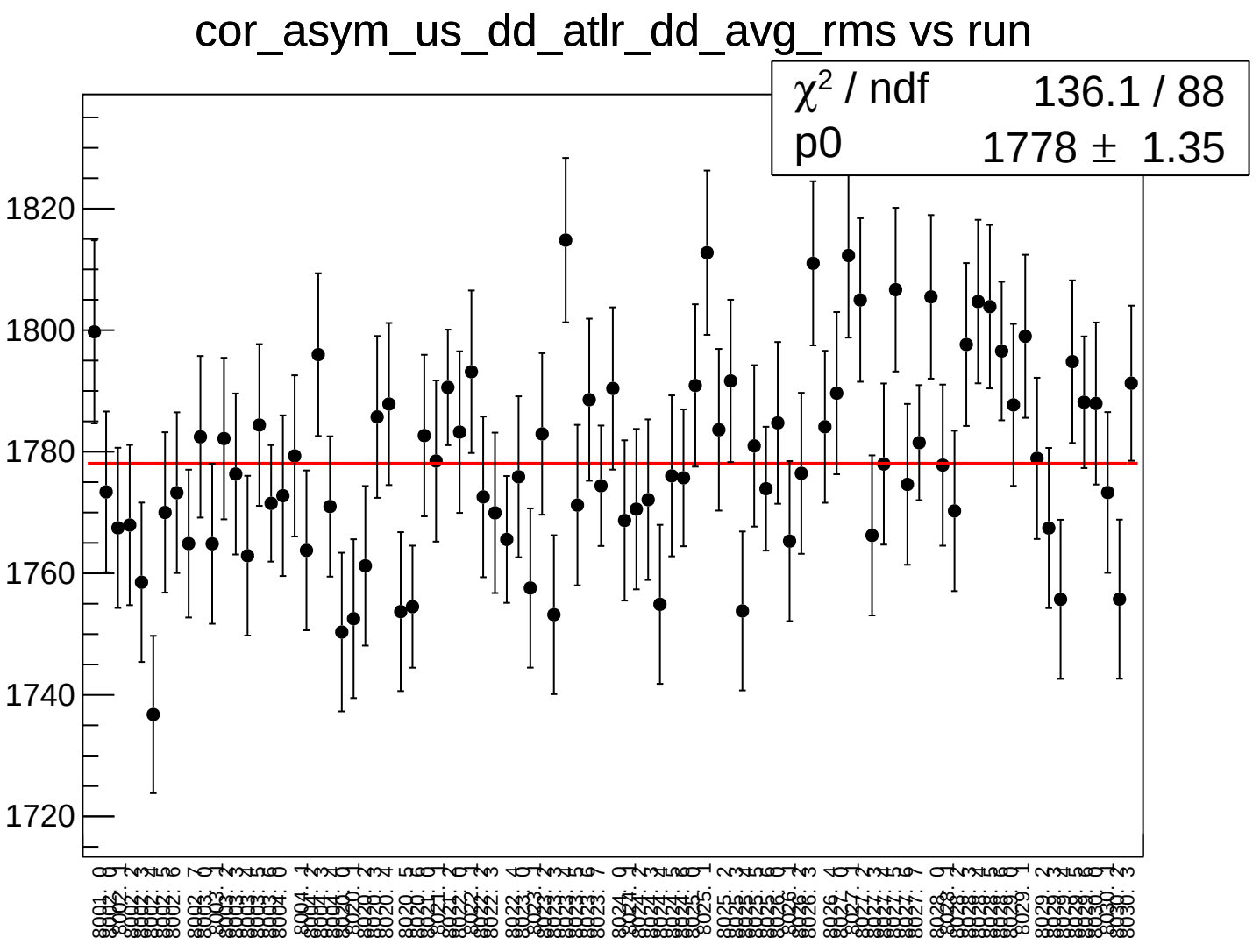

asym_us_dd_atlr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 94.43 / 88
p0 493.2 ± 2706
pull
Entries 89
Mean 176.5
Std Dev 0

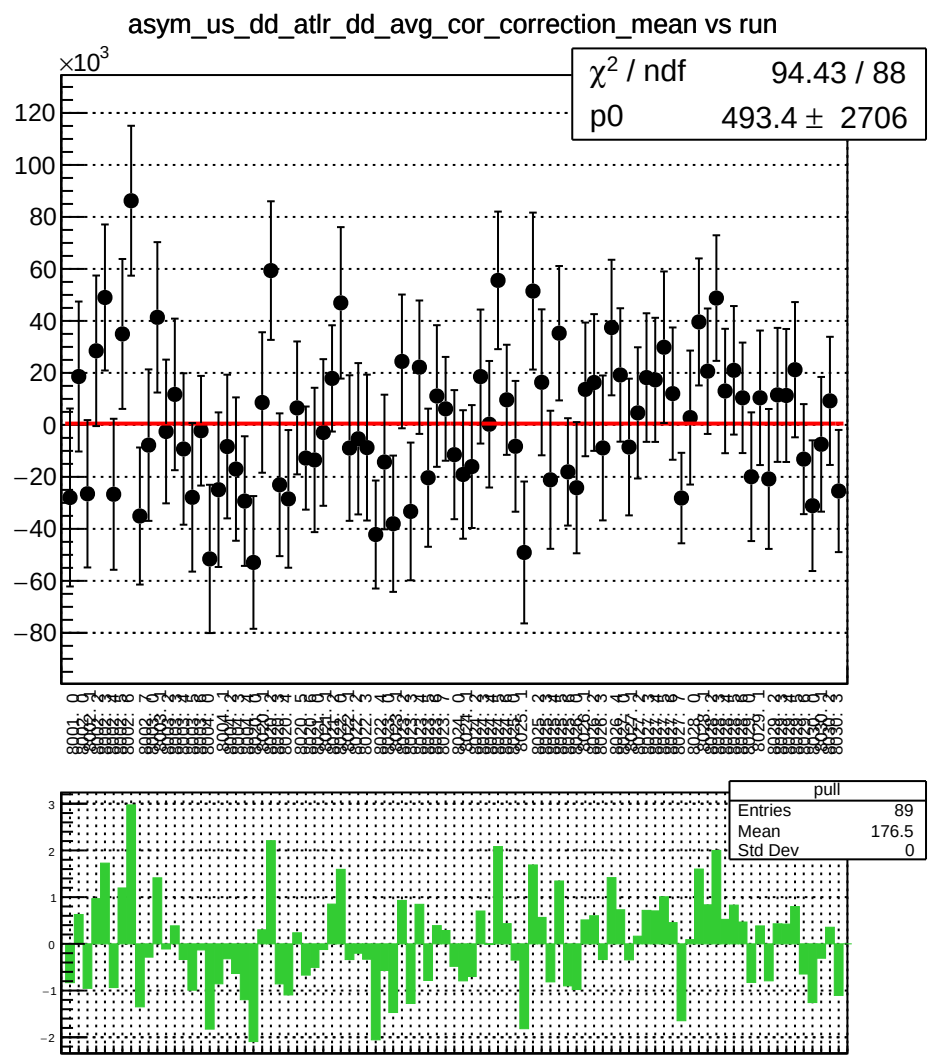

pull1D
Entries 89
Mean 0.0179
Std Dev 1.03

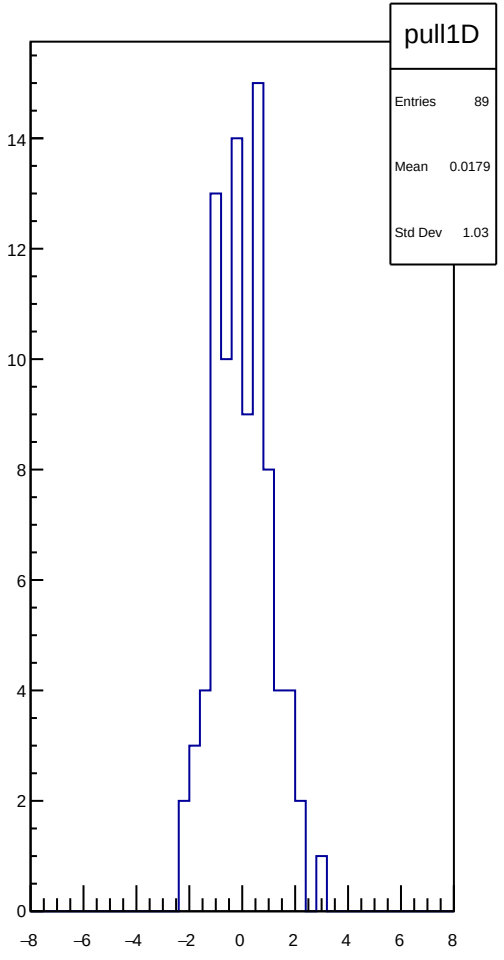

asym_us_dd_atlr_dd_avg_reg_correction_rms vs run
χ² / ndf 6811 / 88
p0 2516 ± 1.914
2900
2800
2700
2600
2500
2400
2300
2200

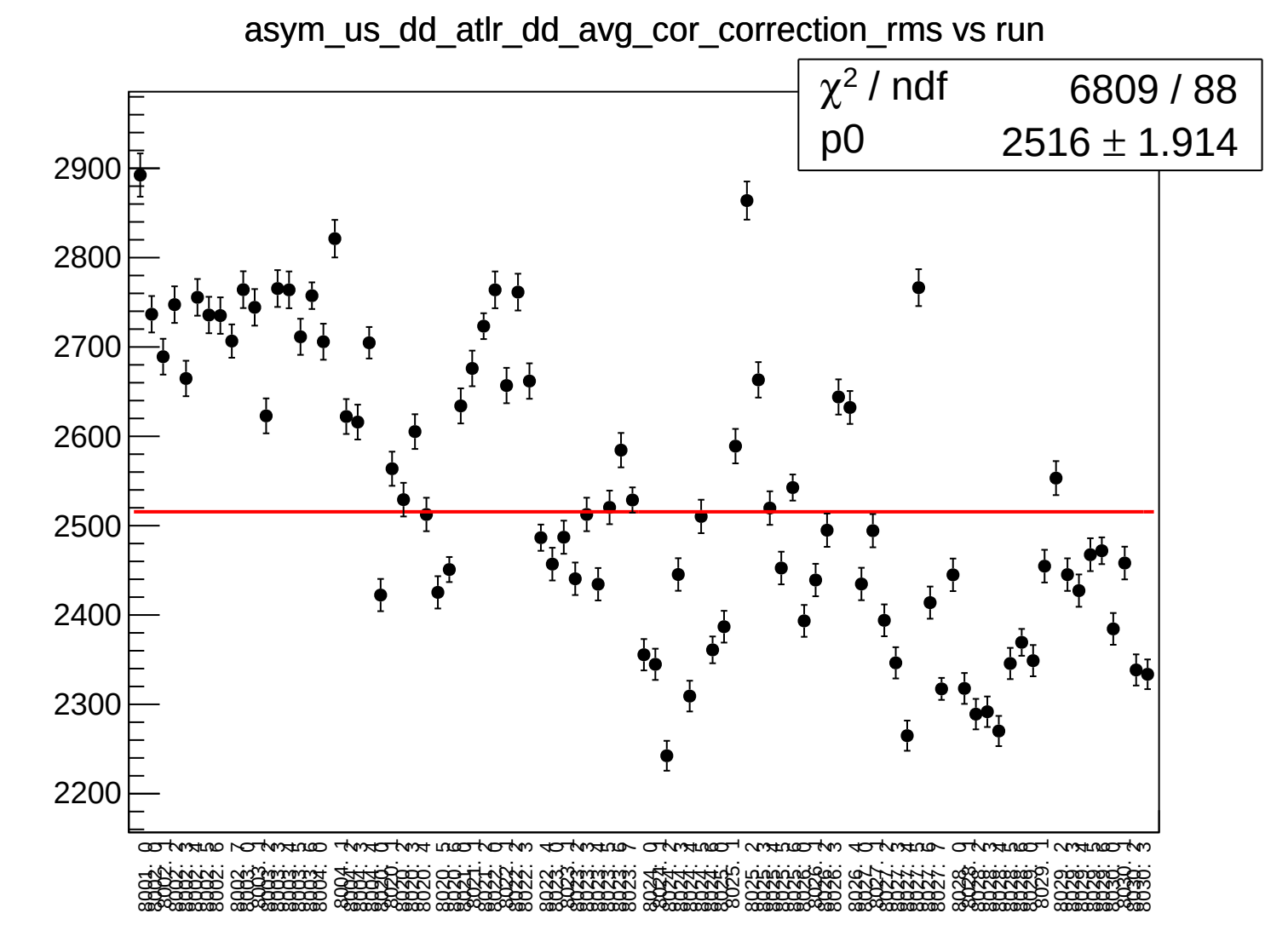

cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 97.19 / 88
p0 −1329 ± 1909
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −83.95
Std Dev 62.93
3
2
1
0
−1
−2

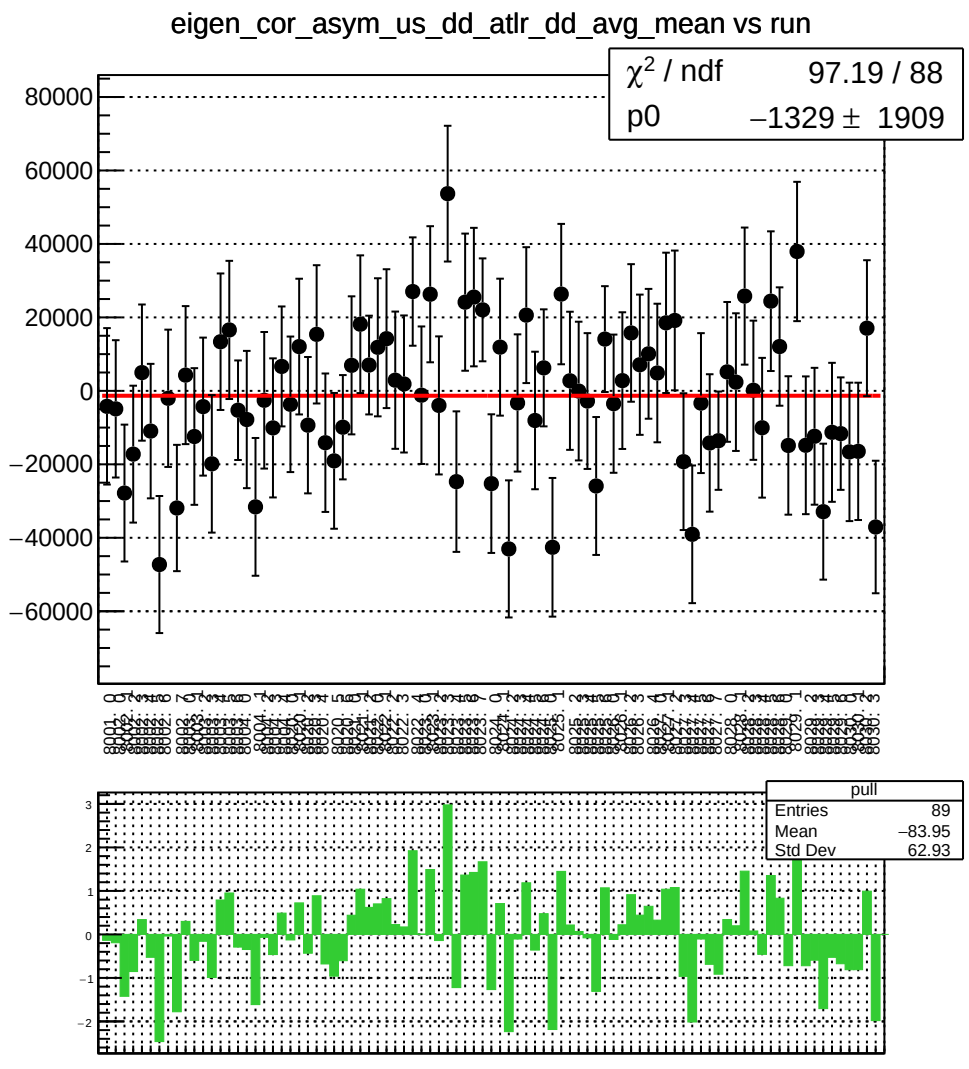

pull1D
Entries 89
Mean −0.01001
Std Dev 1.045
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

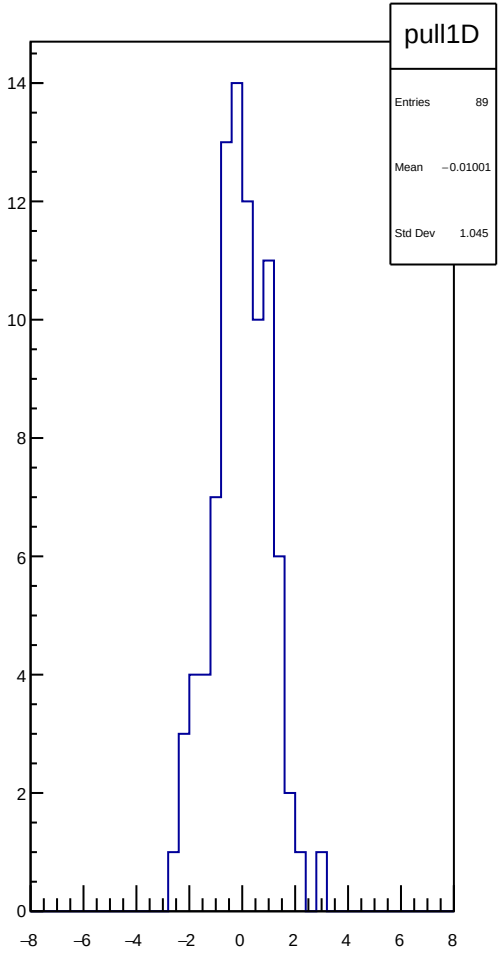

cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 136.1 / 88
p0 1778 ± 1.35
1820
1800
1780
1760
1740
1720

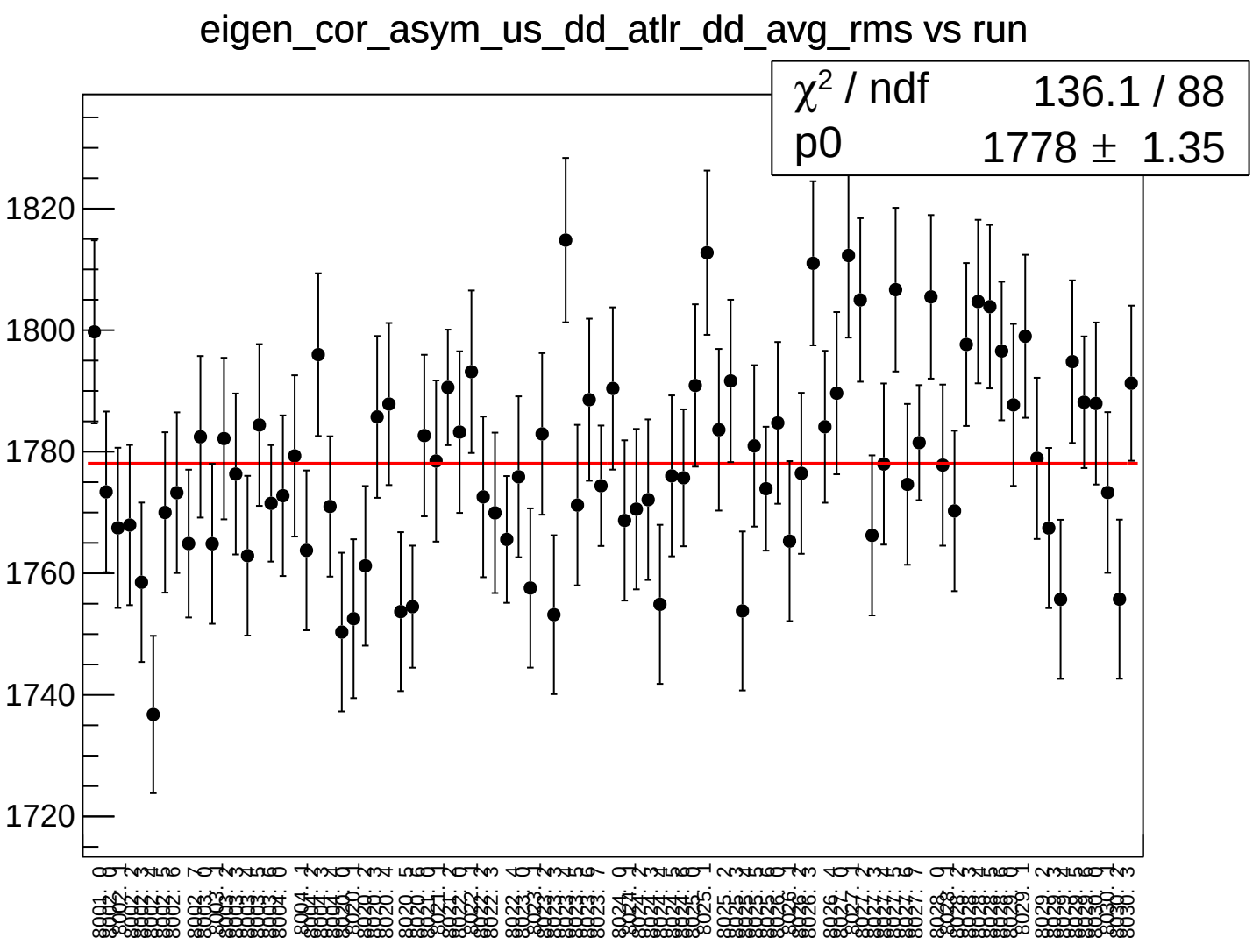

asym_us_dd_atlr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 94.43 / 88
p0 493.4 ± 2706
pull
Entries 89
Mean 176.5
Std Dev 0

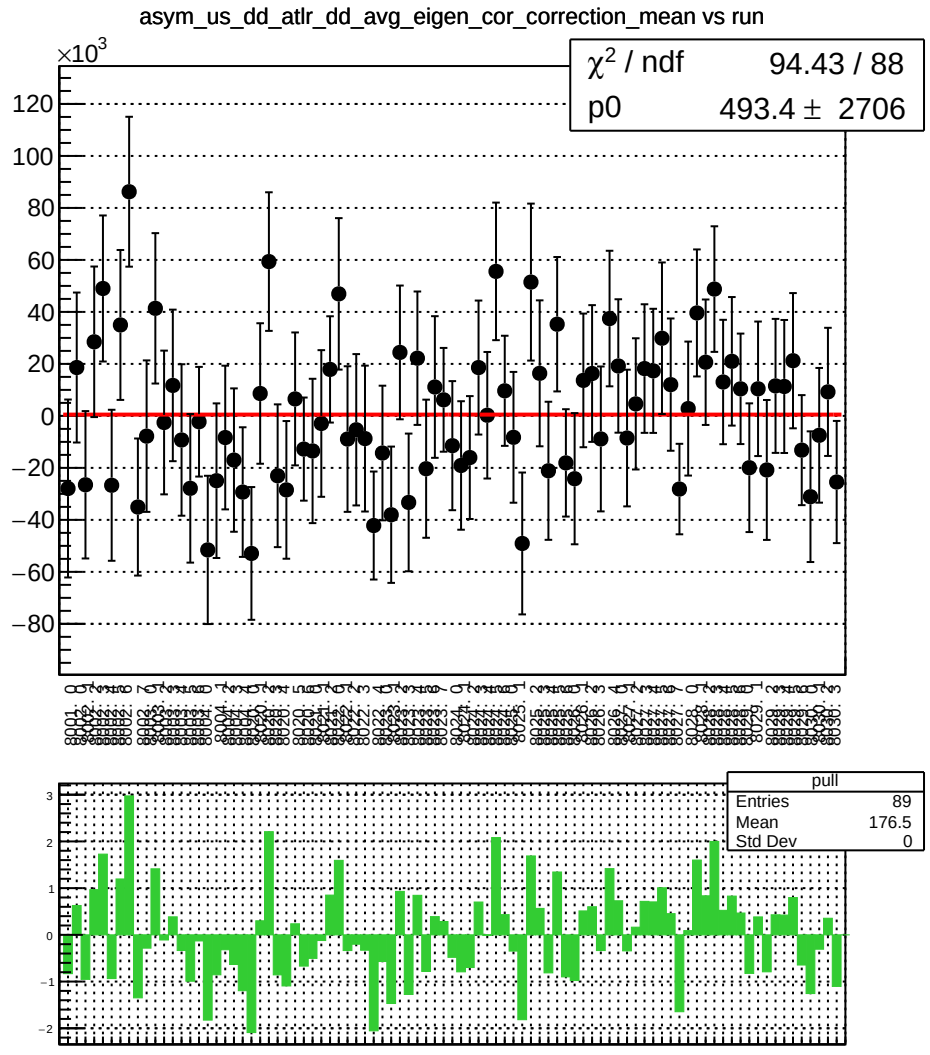

pull1D
Entries 89
Mean 0.0179
Std Dev 1.03

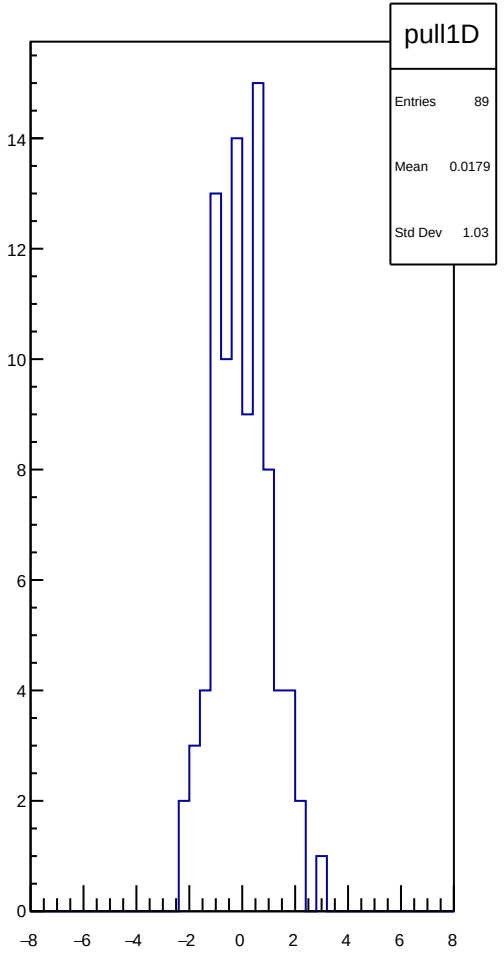

asym_us_dd_atlr_dd_avg_cor_correction_rms vs run
χ² / ndf 6809 / 88
p0 2516 ± 1.914
2900
2800
2700
2600
2500
2400
2300
2200

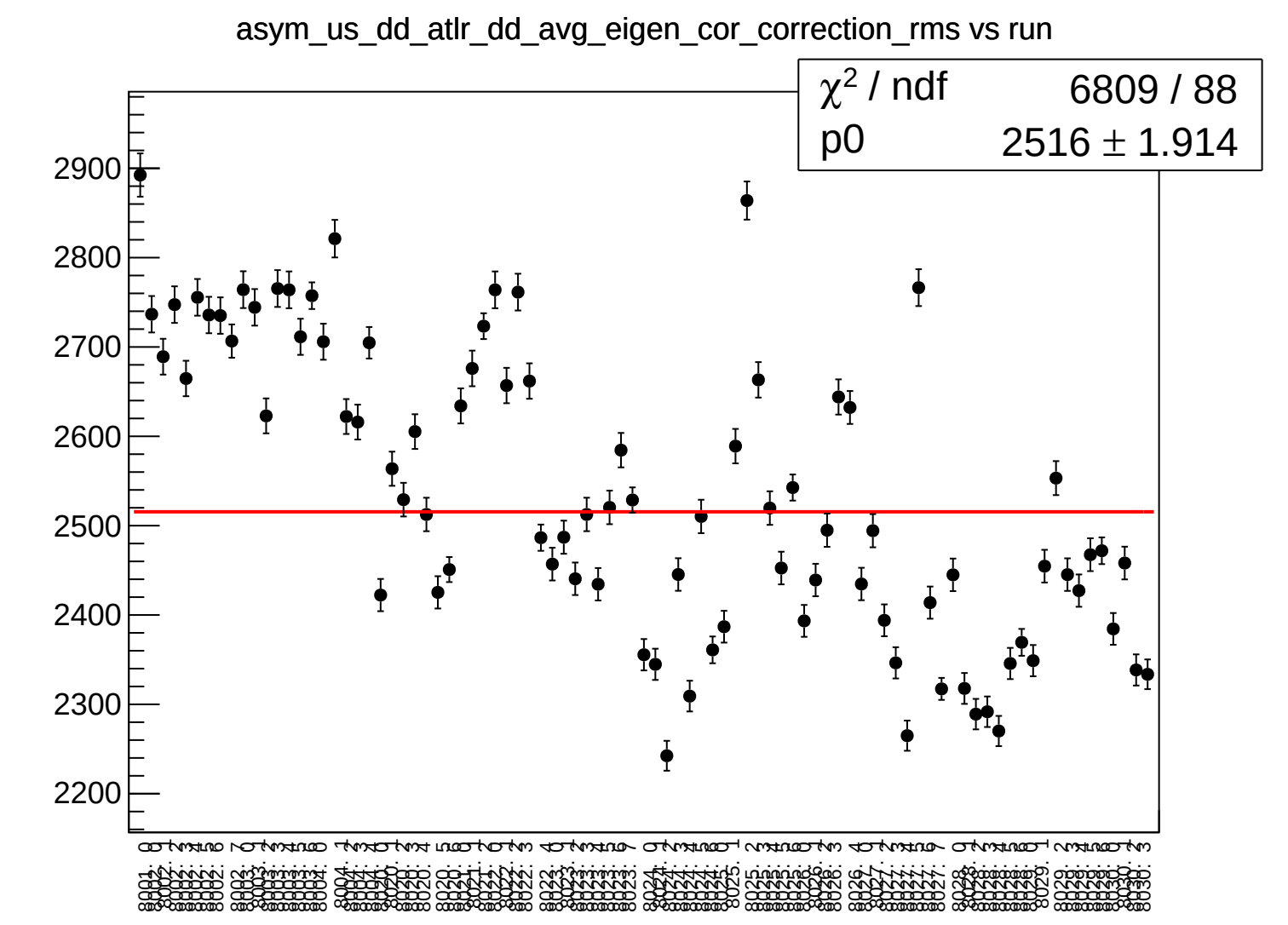

eigen_cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 97.19 / 88
p0 −1329 ± 1909
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −83.95
Std Dev 62.93
3
2
1
0
−1
−2

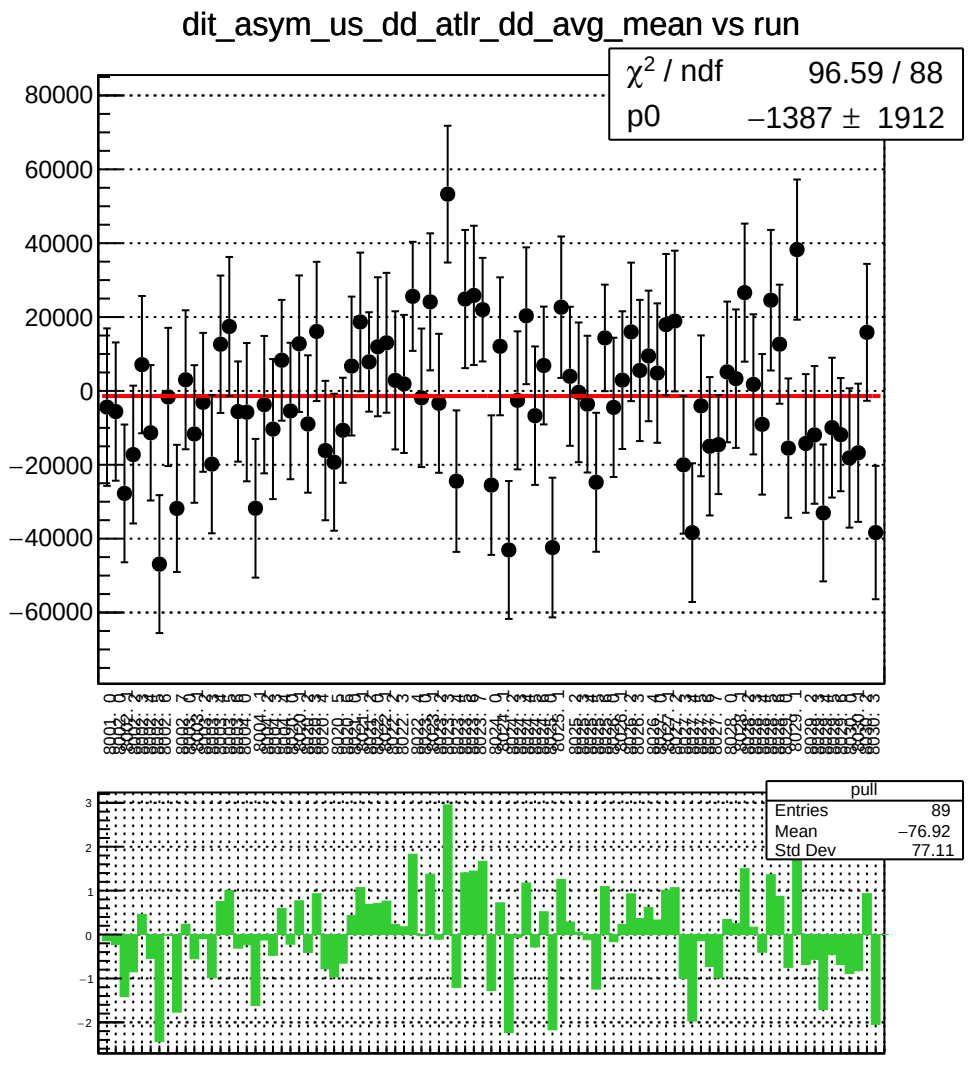

pull1D
Entries 89
Mean −0.01001
Std Dev 1.045
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

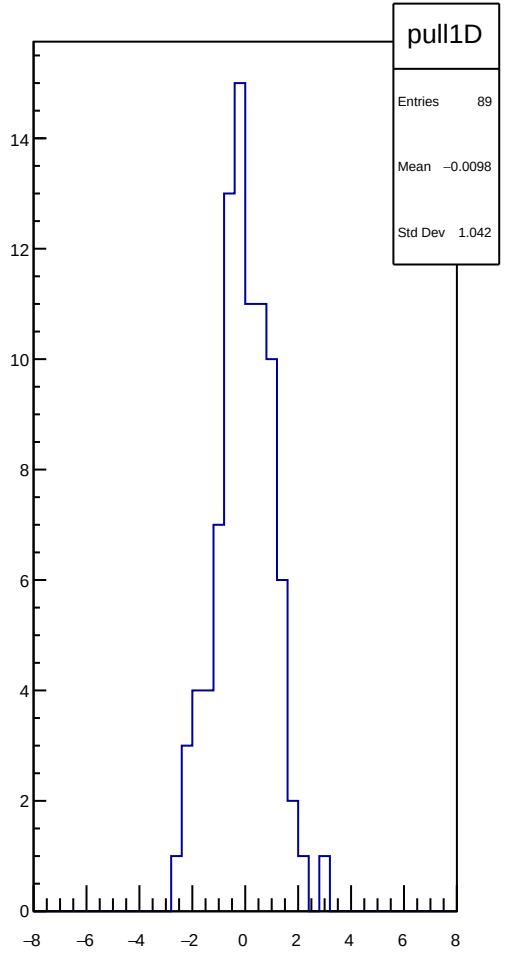

eigen_cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 136.1 / 88
p0 1778 ± 1.35
1820
1800
1780
1760
1740
1720

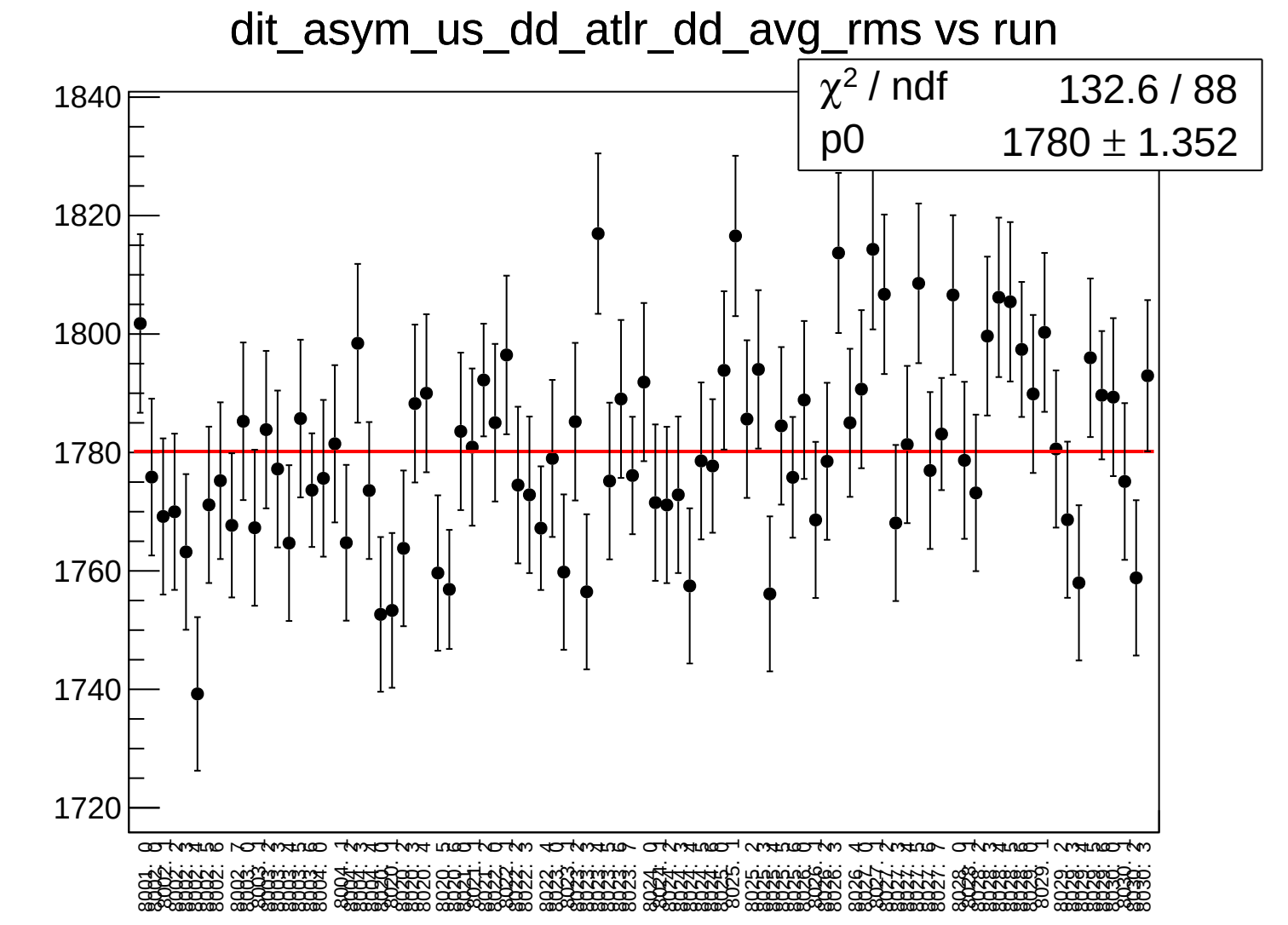

asym_us_dd_atlr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 94.43 / 88
p0 493.4 ± 2706
pull
Entries 89
Mean 176.5
Std Dev 0

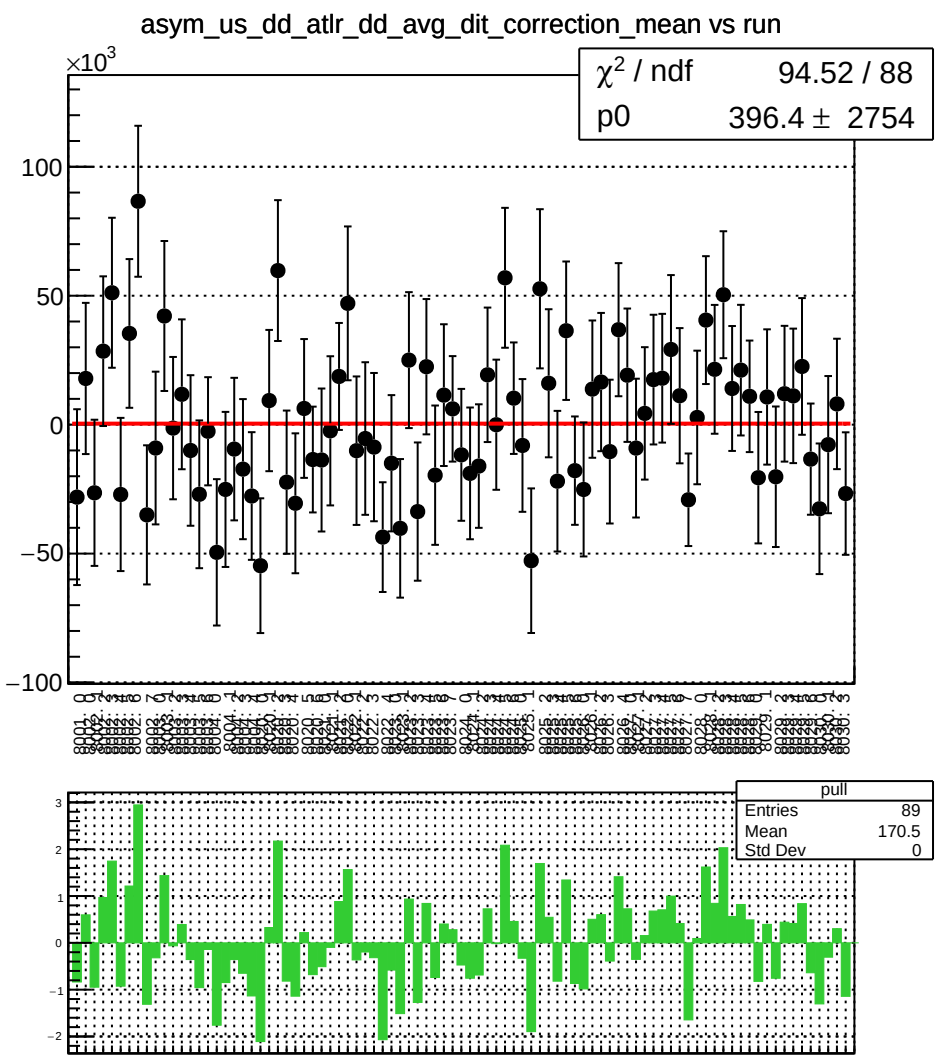

pull1D
Entries 89
Mean 0.0179
Std Dev 1.03

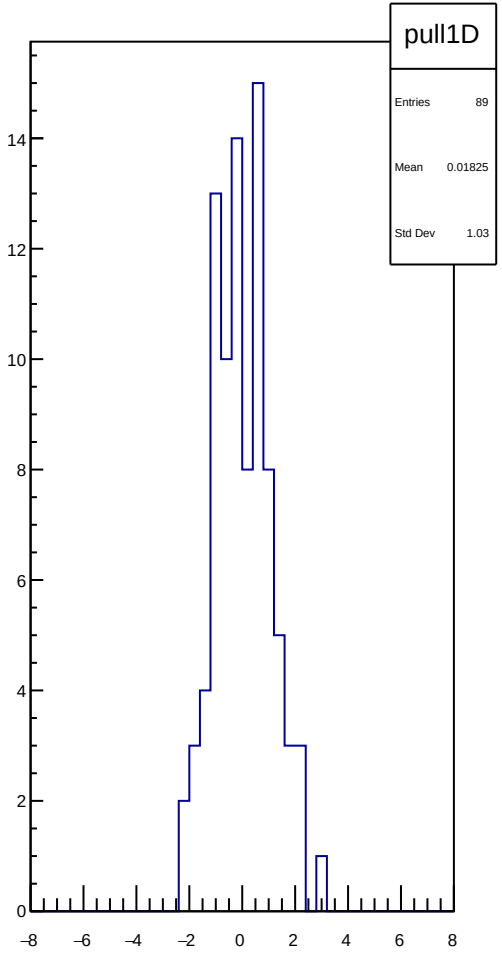

asym_us_dd_atlr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 6809 / 88
p0 2516 ± 1.914
2900
2800
2700
2600
2500
2400
2300
2200

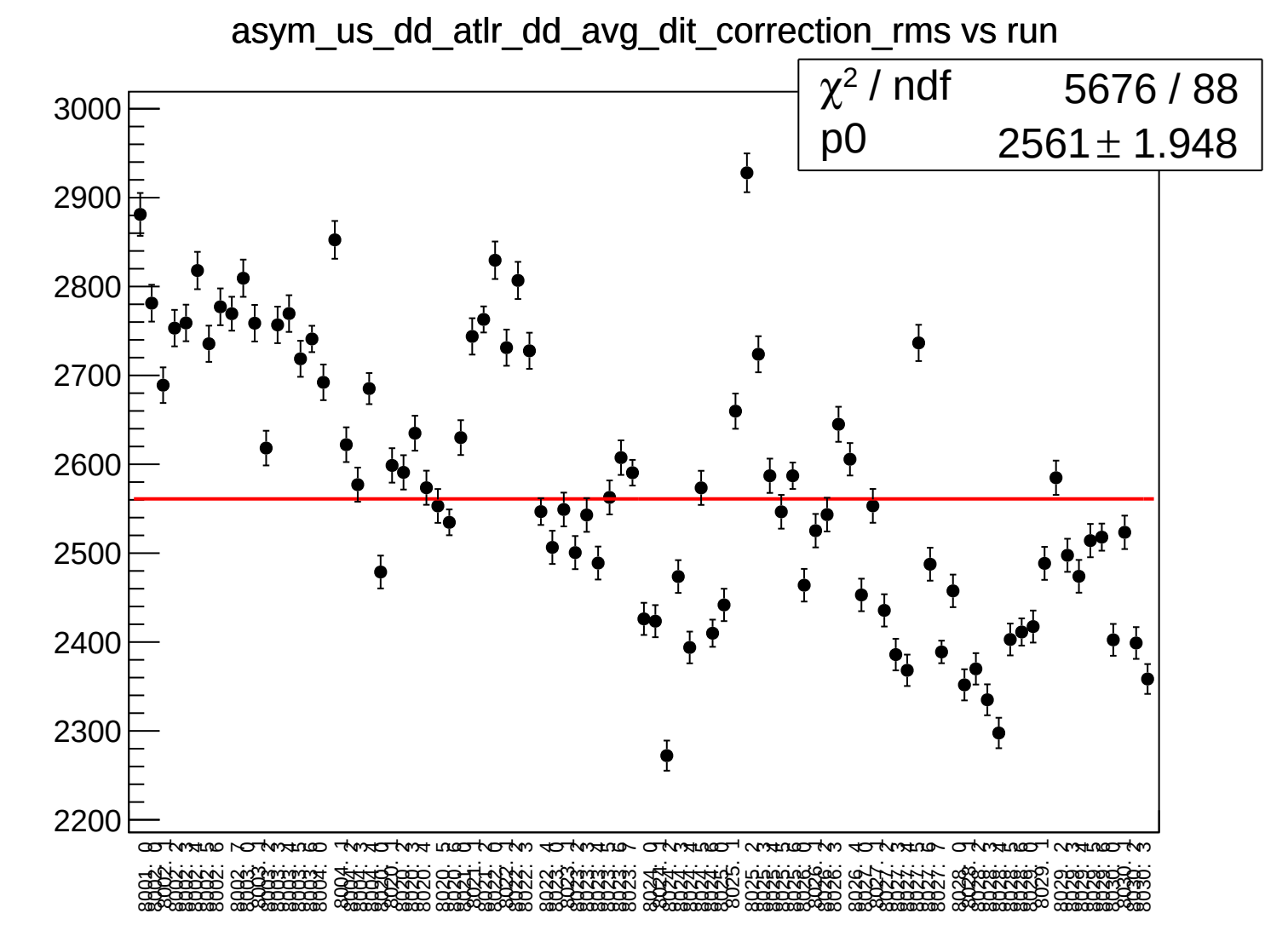

dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 96.59 / 88
p0 −1387 ± 1912
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −76.92
Std Dev 77.11
3
2
1
0
−1
−2

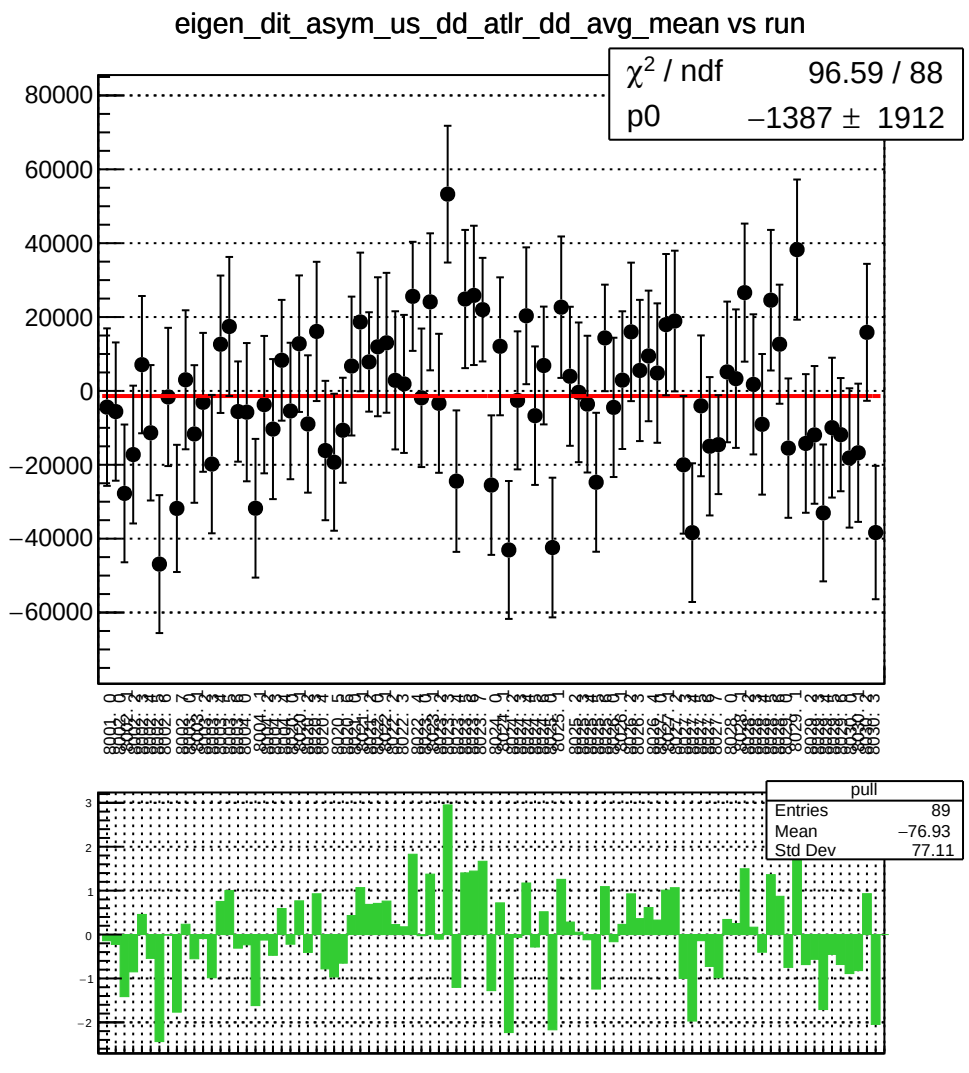

pull1D
Entries 89
Mean −0.0098
Std Dev 1.042
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

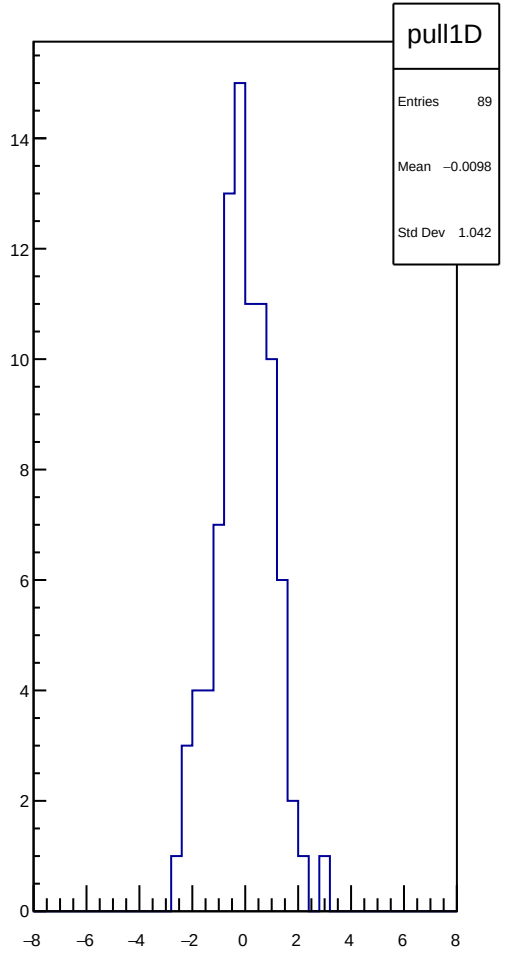

dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 132.6 / 88
p0 1780 ± 1.352
1840
1820
1800
1780
1760
1740
1720

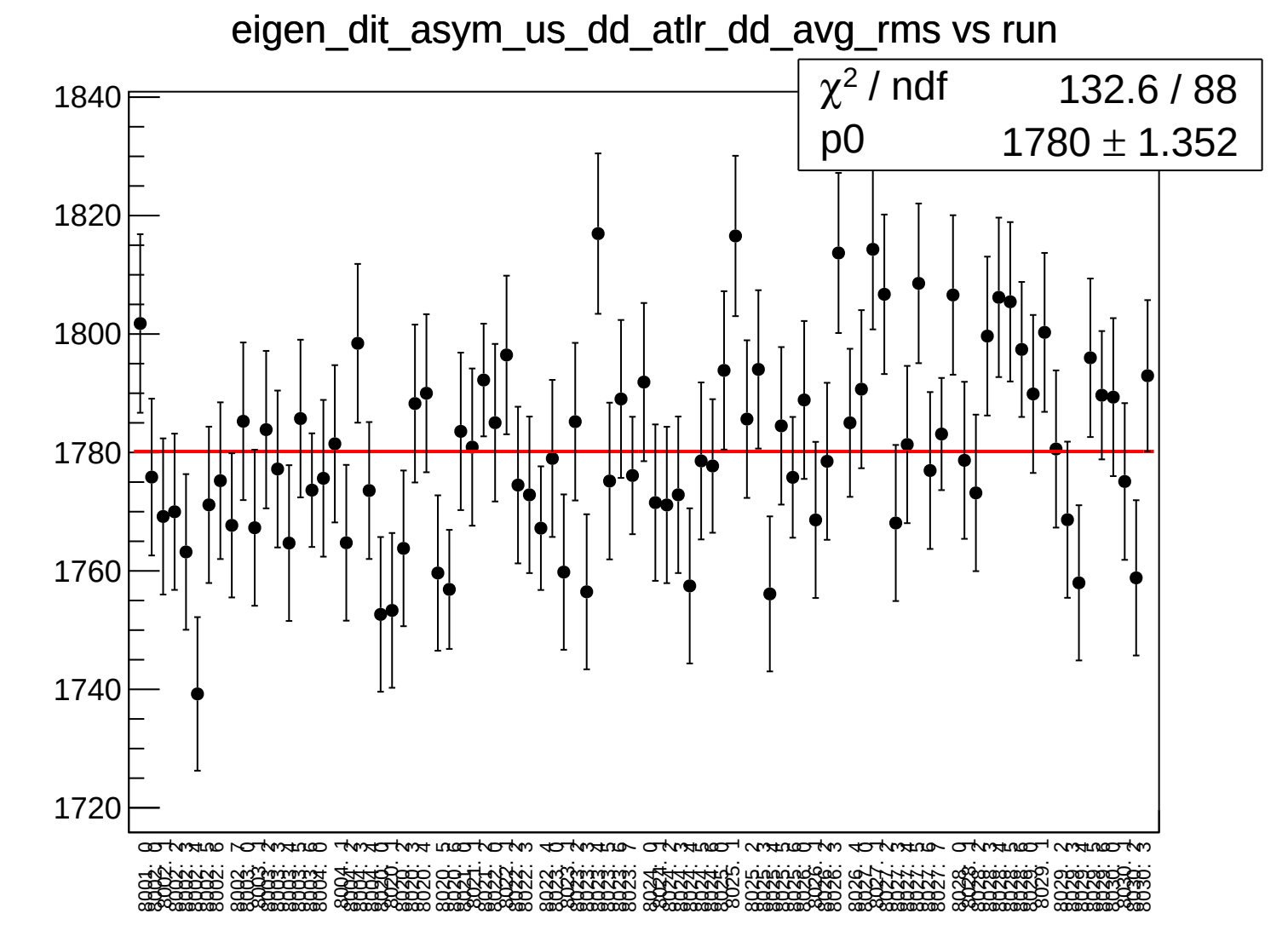

asym_us_dd_atlr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 94.52 / 88
p0 396.4 ± 2754
100
50
0
−50
−100
pull
Entries 89
Mean 170.5
Std Dev 0
3
2
1
0
−1
−2

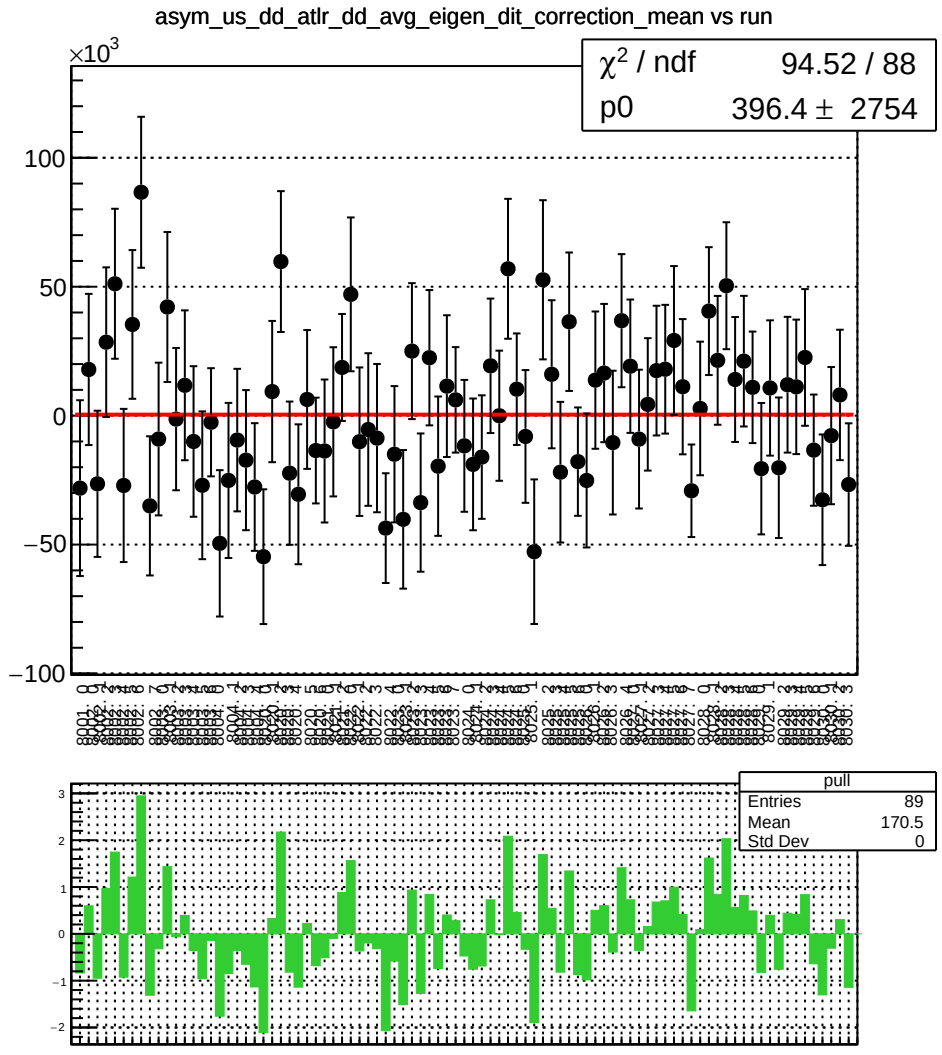

pull1D
Entries 89
Mean 0.01825
Std Dev 1.03
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

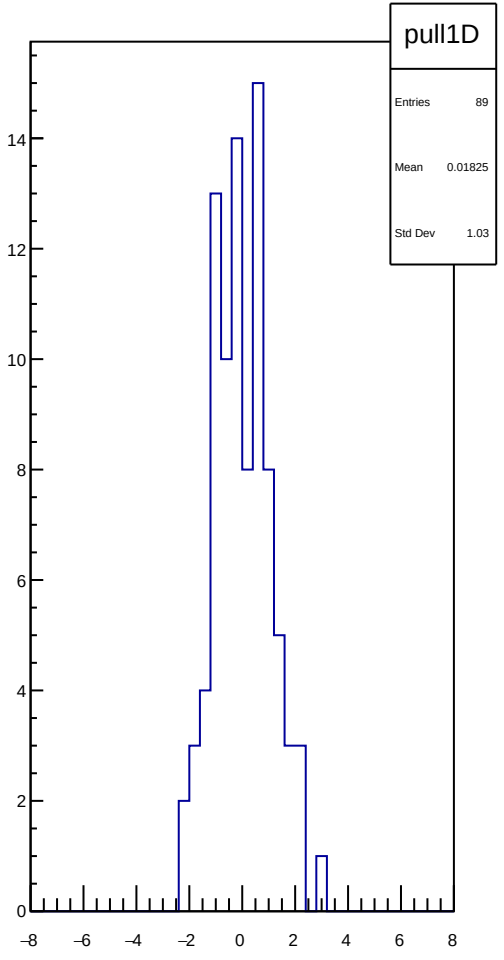

asym_us_dd_atlr_dd_avg_dit_correction_rms vs run
χ² / ndf 5676 / 88
p0 2561 ± 1.948
3000
2900
2800
2700
2600
2500
2400
2300
2200

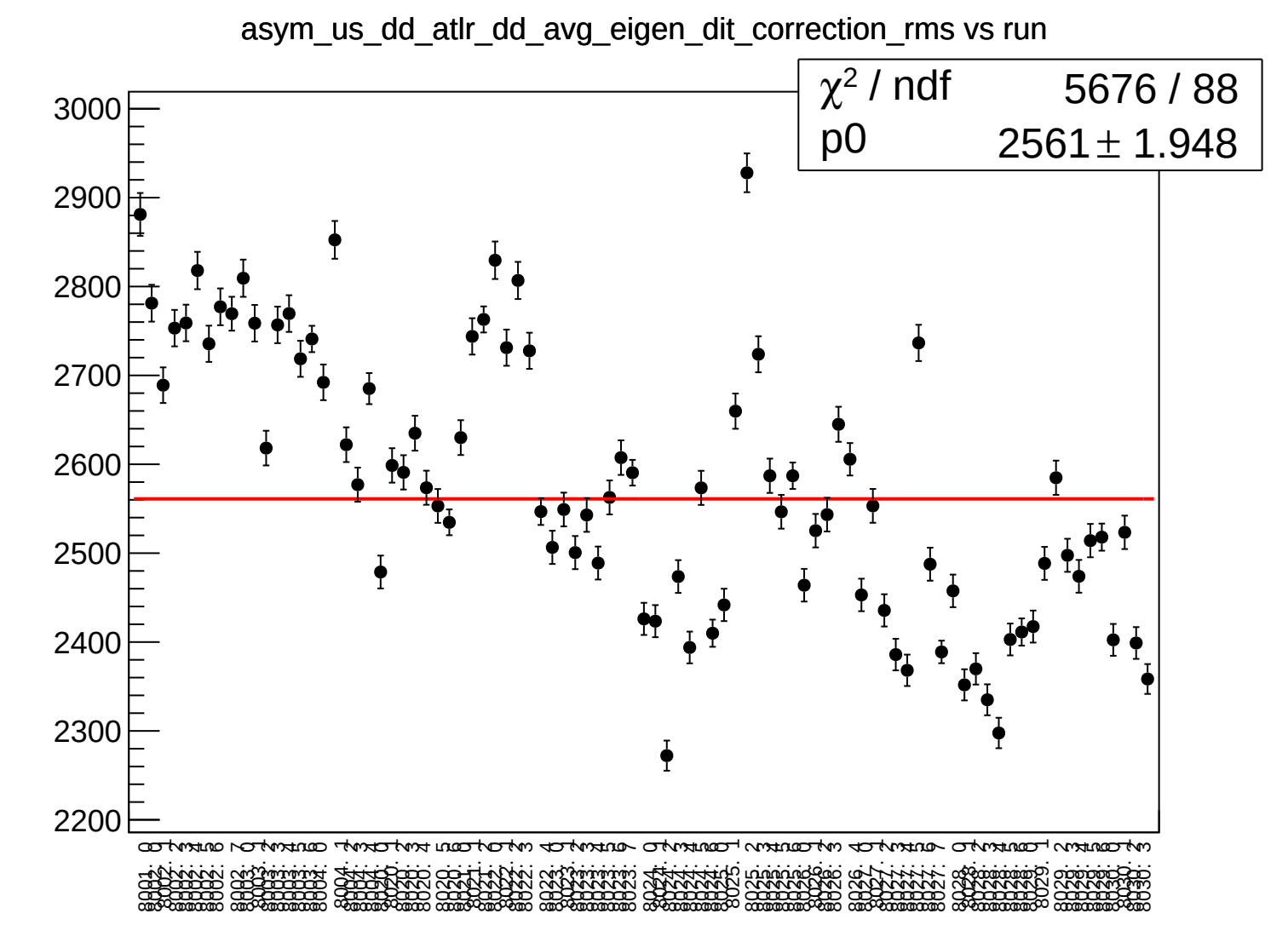

eigen_dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 96.59 / 88
p0 −1387 ± 1912
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −76.93
Std Dev 77.11
3
2
1
0
−1
−2

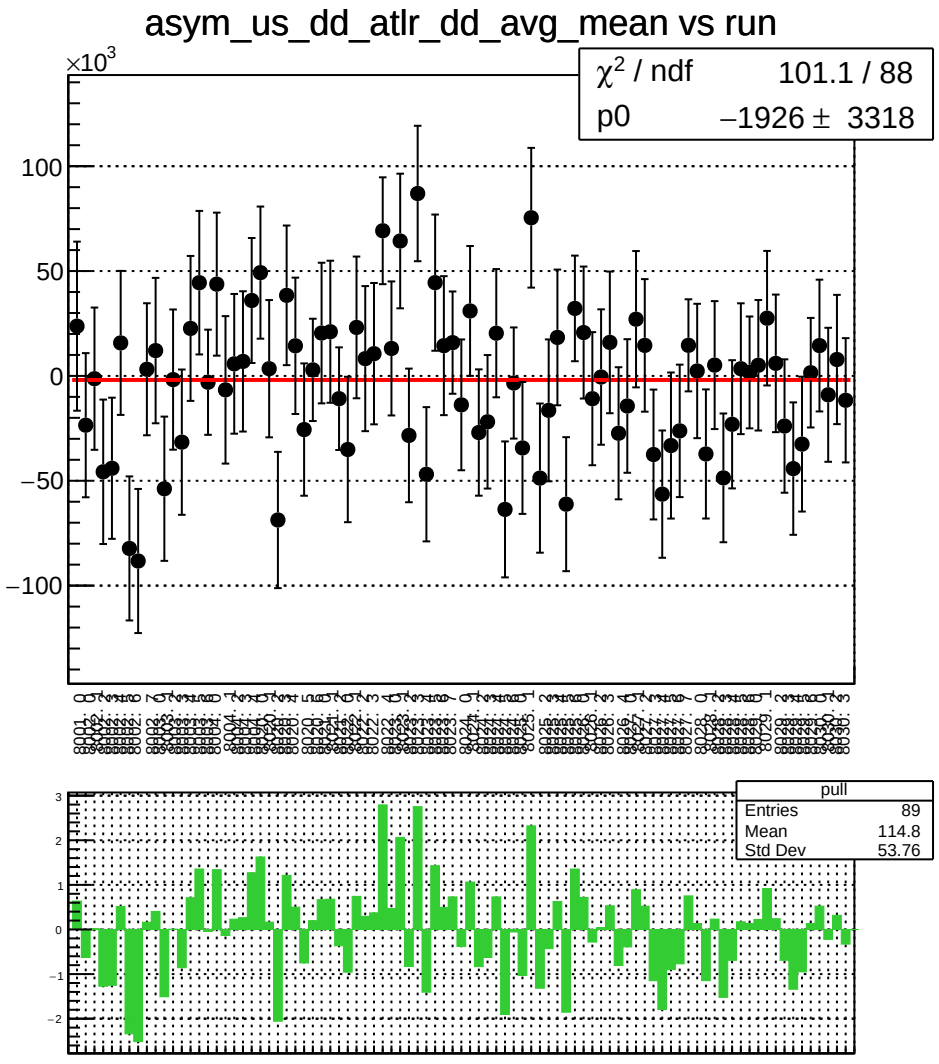

pull1D
Entries 89
Mean −0.0098
Std Dev 1.042
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

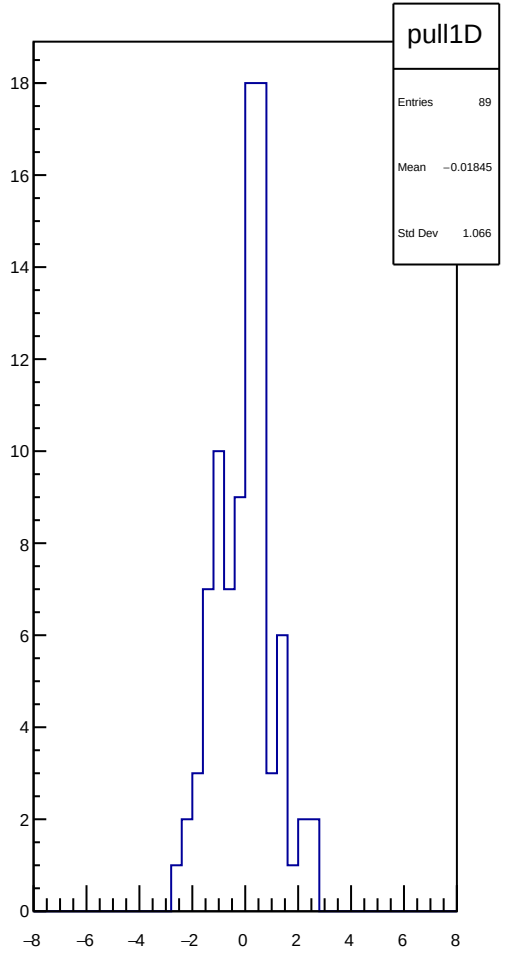

eigen_dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 132.6 / 88
p0 1780 ± 1.352
1840
1820
1800
1780
1760
1740
1720

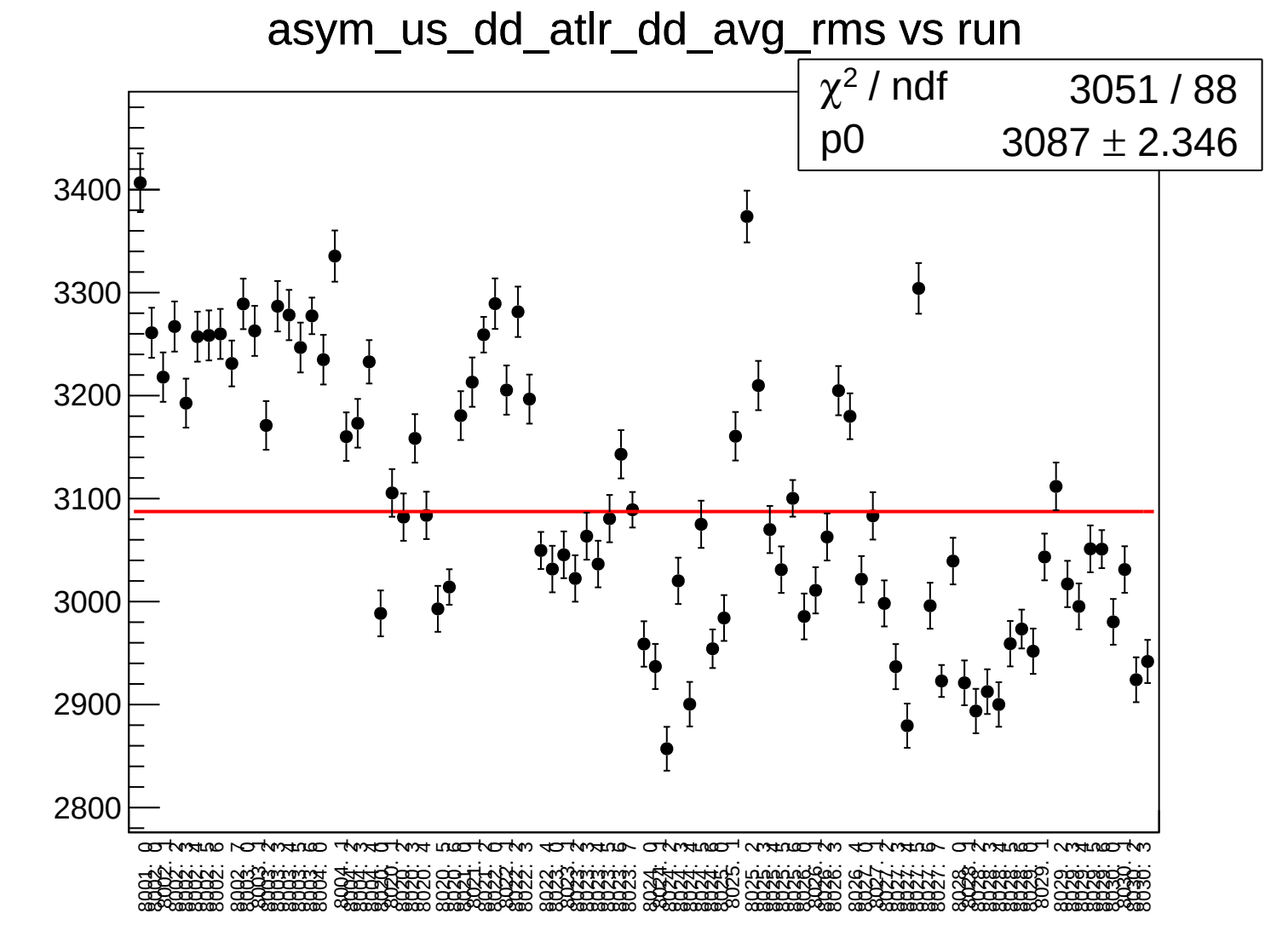

asym_us_dd_atlr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 94.52 / 88
p0 396.4 ± 2754
100
50
0
−50
−100
pull
Entries 89
Mean 170.5
Std Dev 0
3
2
1
0
−1
−2

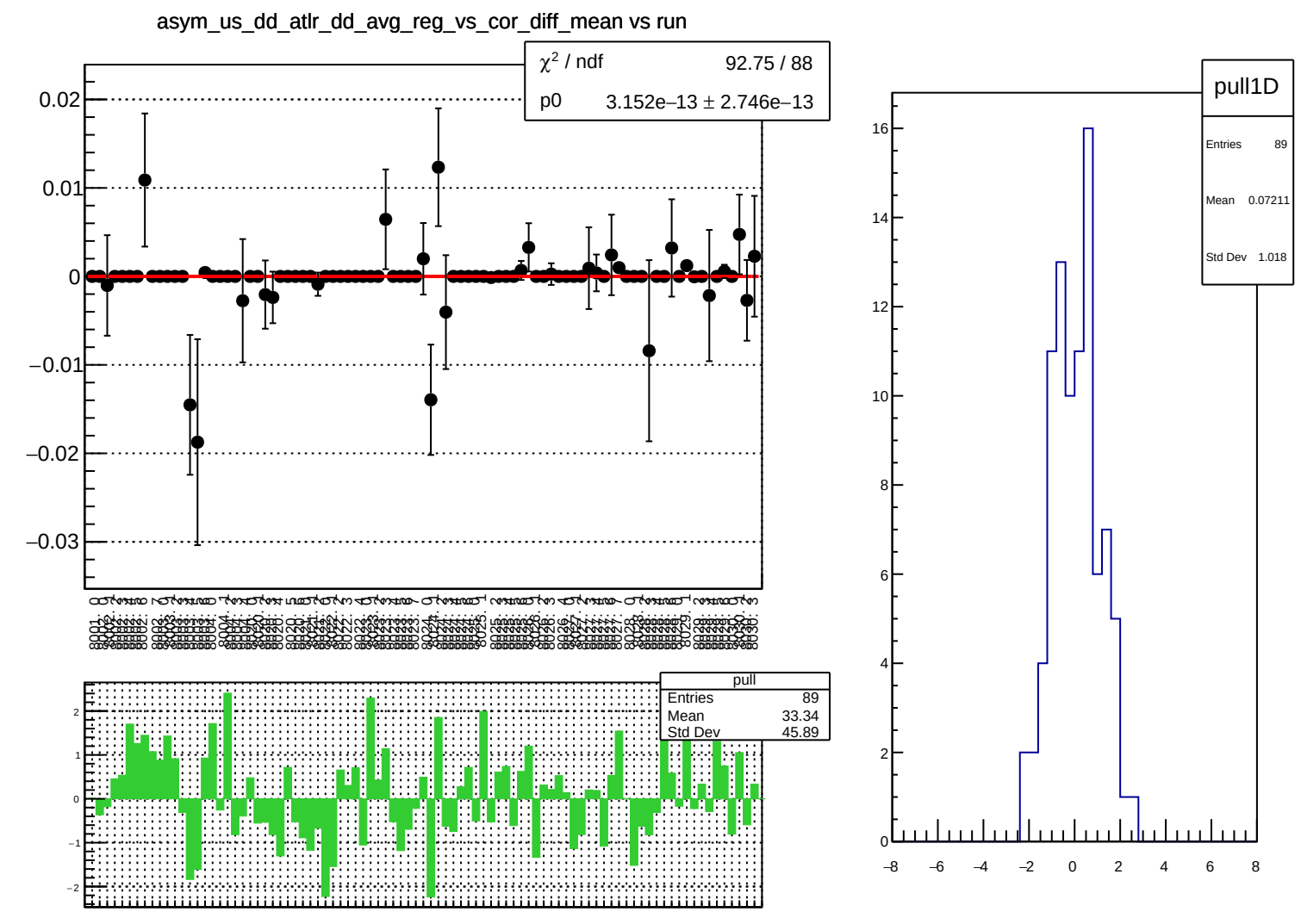

pull1D
Entries 89
Mean 0.01825
Std Dev 1.03
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

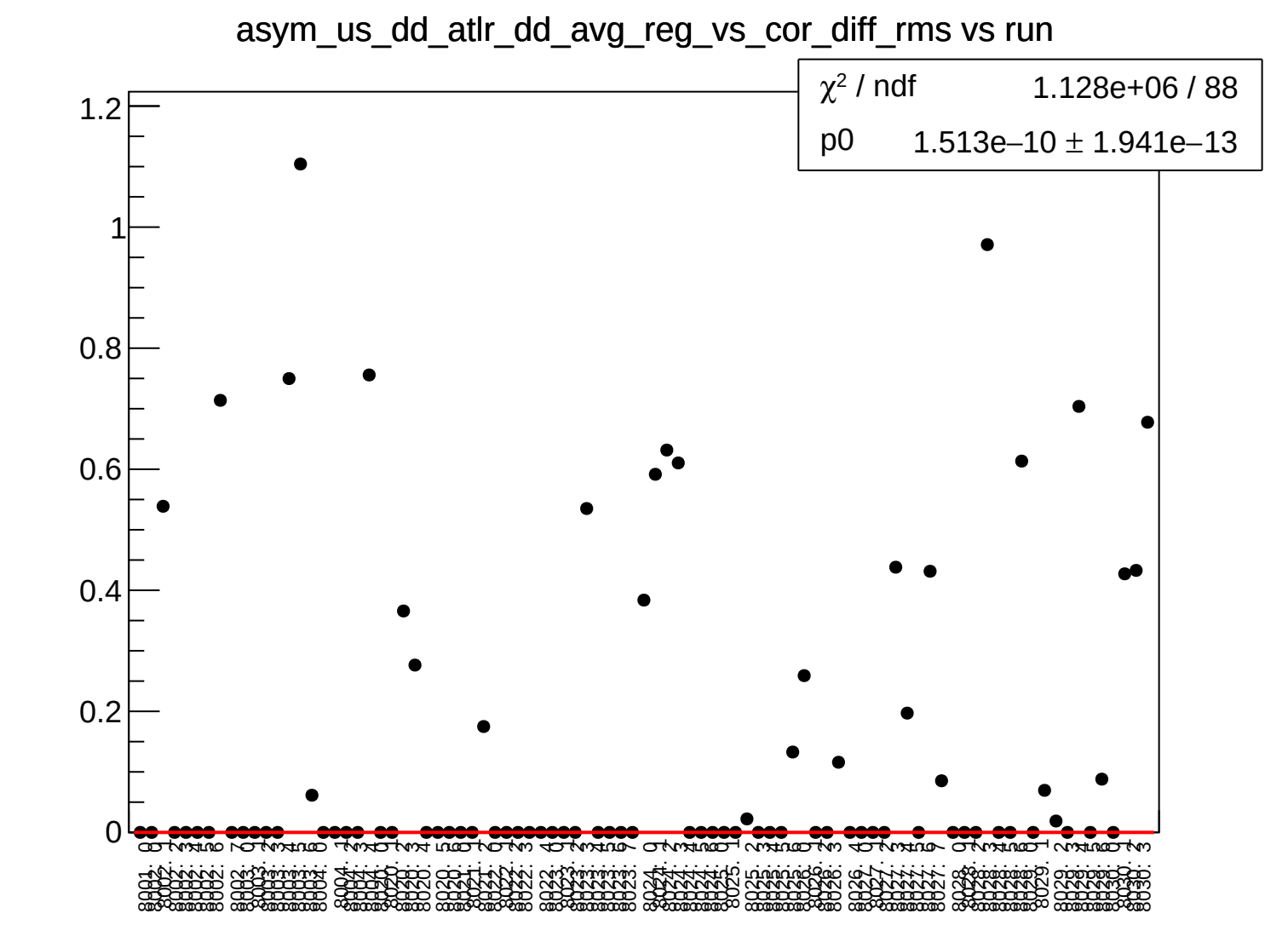

asym_us_dd_atlr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 5676 / 88
p0 2561 ± 1.948
3000
2900
2800
2700
2600
2500
2400
2300
2200

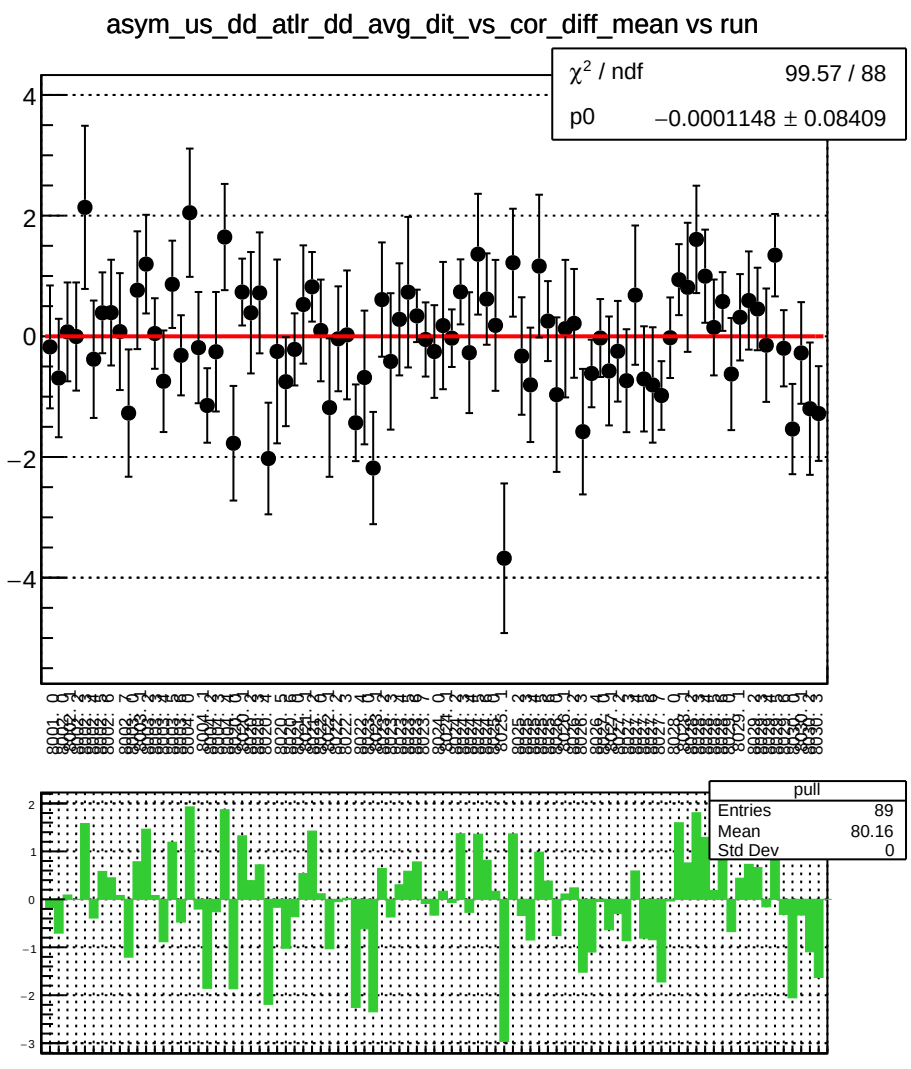

asym_us_dd_atlr_dd_avg_mean vs run
×10^3
χ² / ndf 101.1 / 88
p0 −1926 ± 3318
100
50
0
−50
−100
pull
Entries 89
Mean 114.8
Std Dev 53.76
3
2
1
0
−1
−2

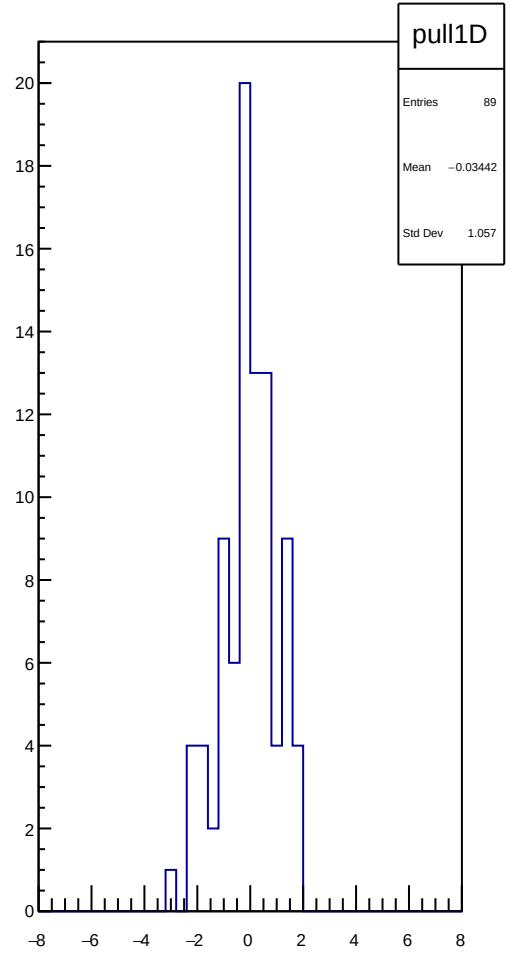

pull1D
Entries 89
Mean −0.01845
Std Dev 1.066
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

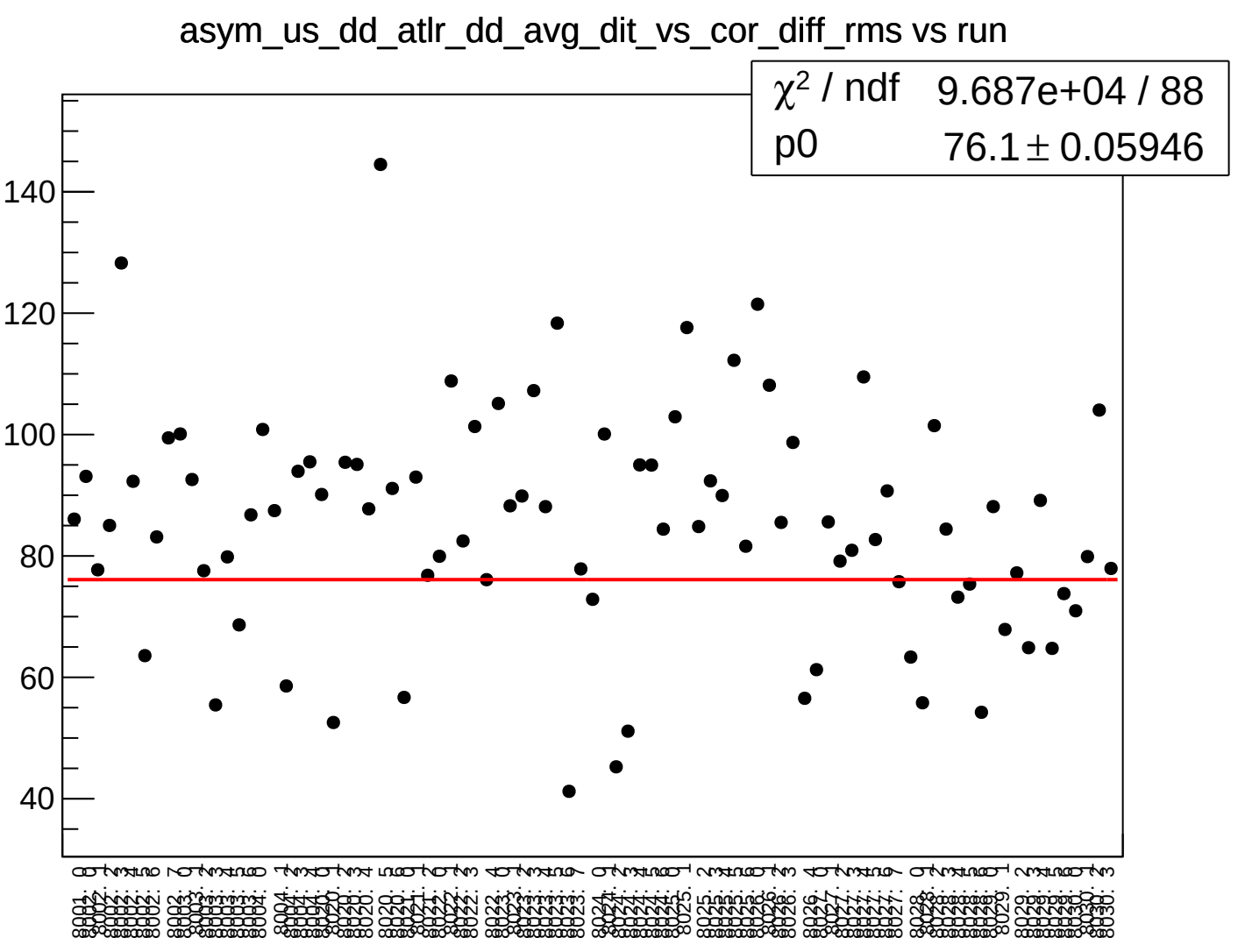

asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 3051 / 88
p0 3087 ± 2.346
3400
3300
3200
3100
3000
2900
2800

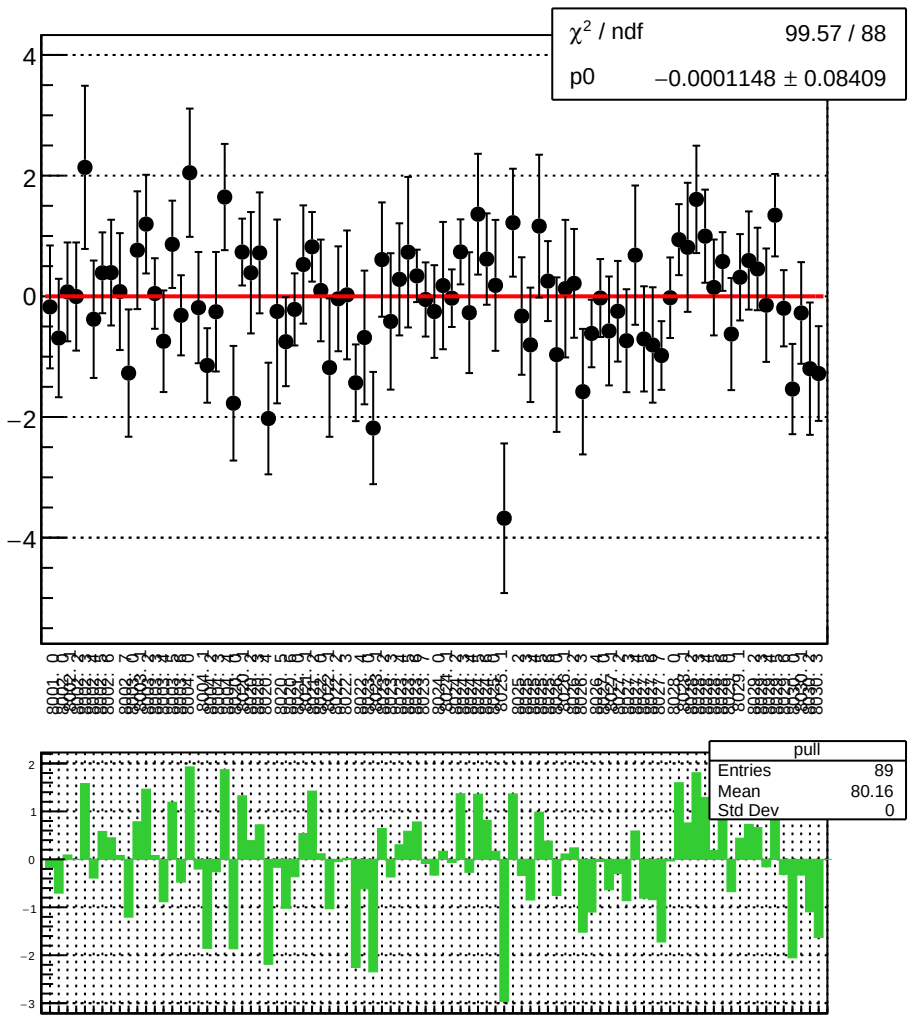

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 92.75 / 88
p0 3.152e−13 ± 2.746e−13
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 89
Mean 33.34
Std Dev 45.89
pull1D
Entries 89
Mean 0.07211
Std Dev 1.018

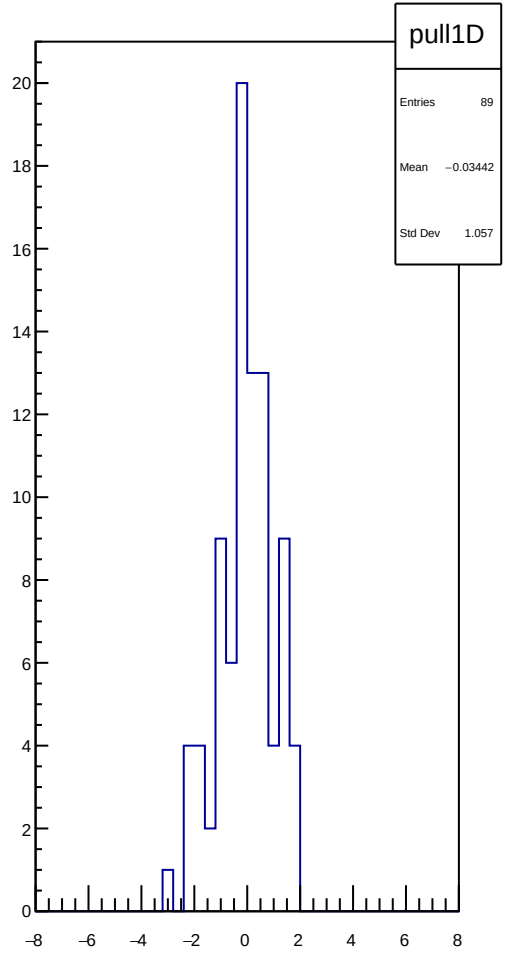

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.128e+06 / 88
p0 1.513e−10 ± 1.941e−13
1.2
1
0.8
0.6
0.4
0.2
0

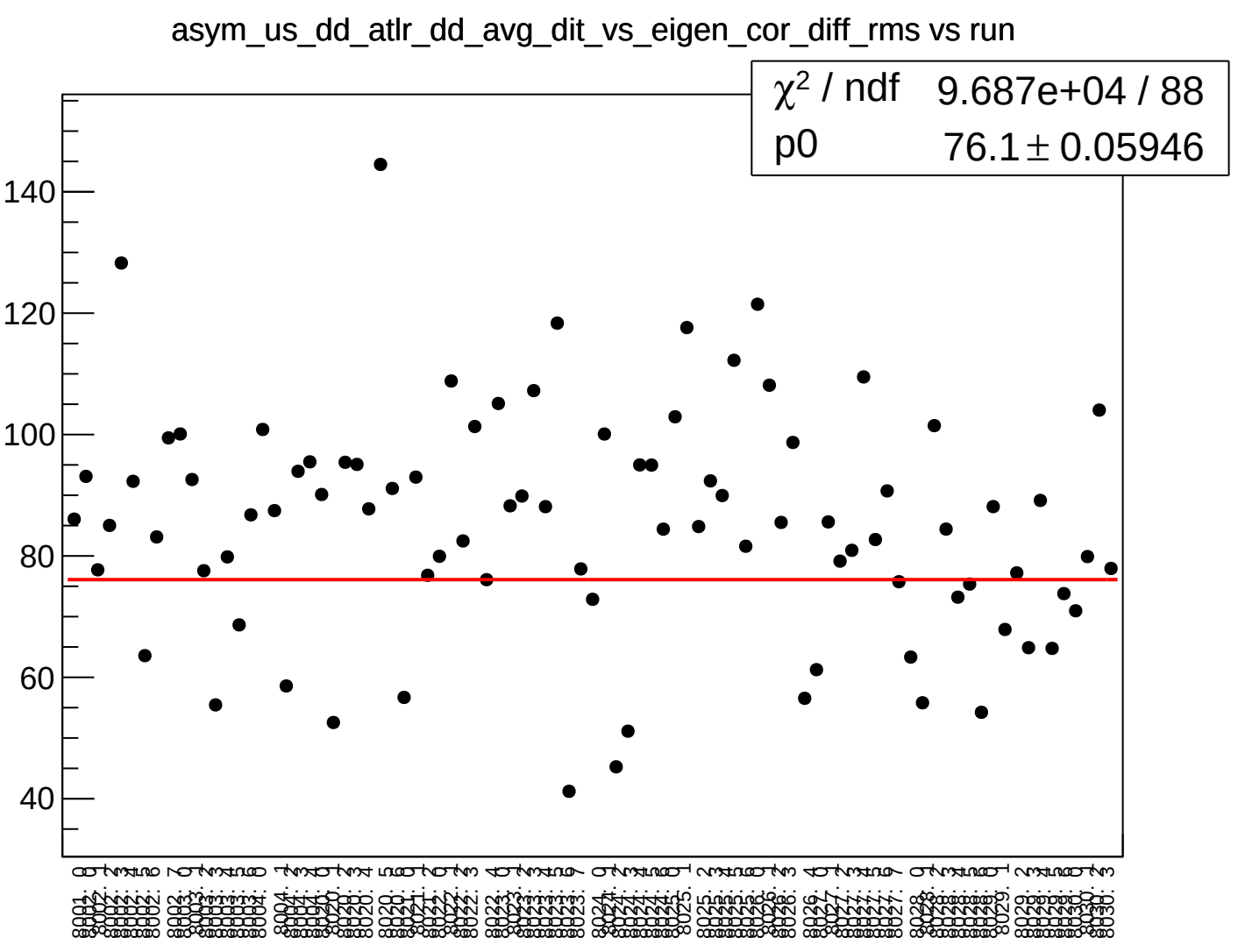

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 99.57 / 88
p0 −0.0001148 ± 0.08409
pull
Entries 89
Mean 80.16
Std Dev 0

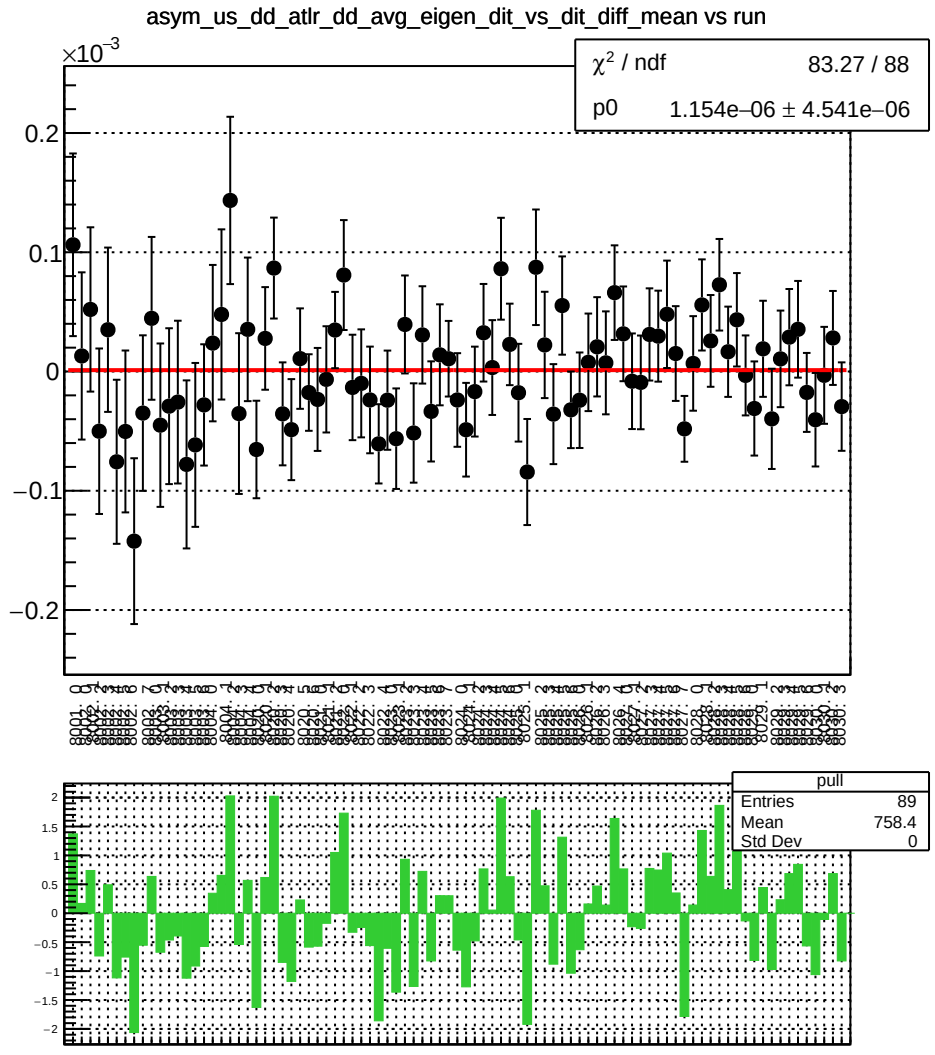

pull1D
Entries 89
Mean −0.03442
Std Dev 1.057

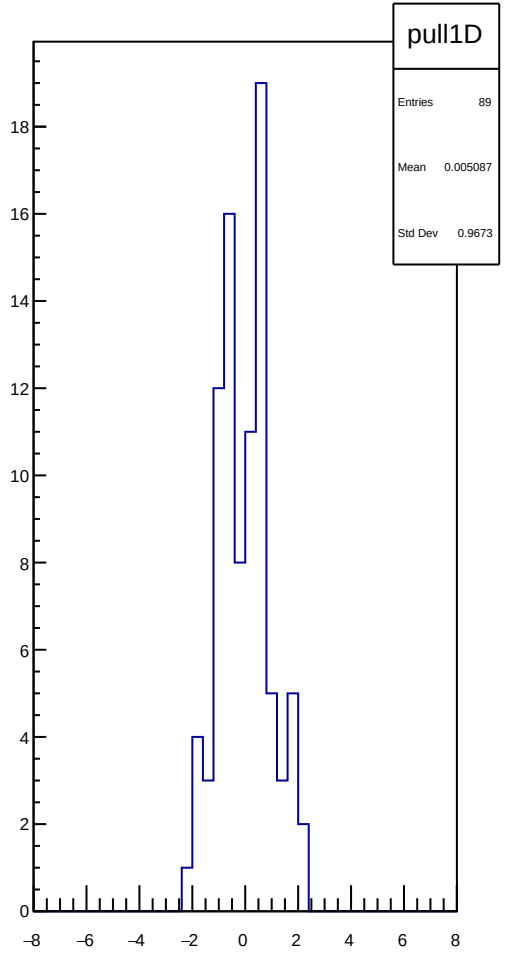

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 9.687e+04 / 88
p0 76.1 ± 0.05946
140
120
100
80
60
40

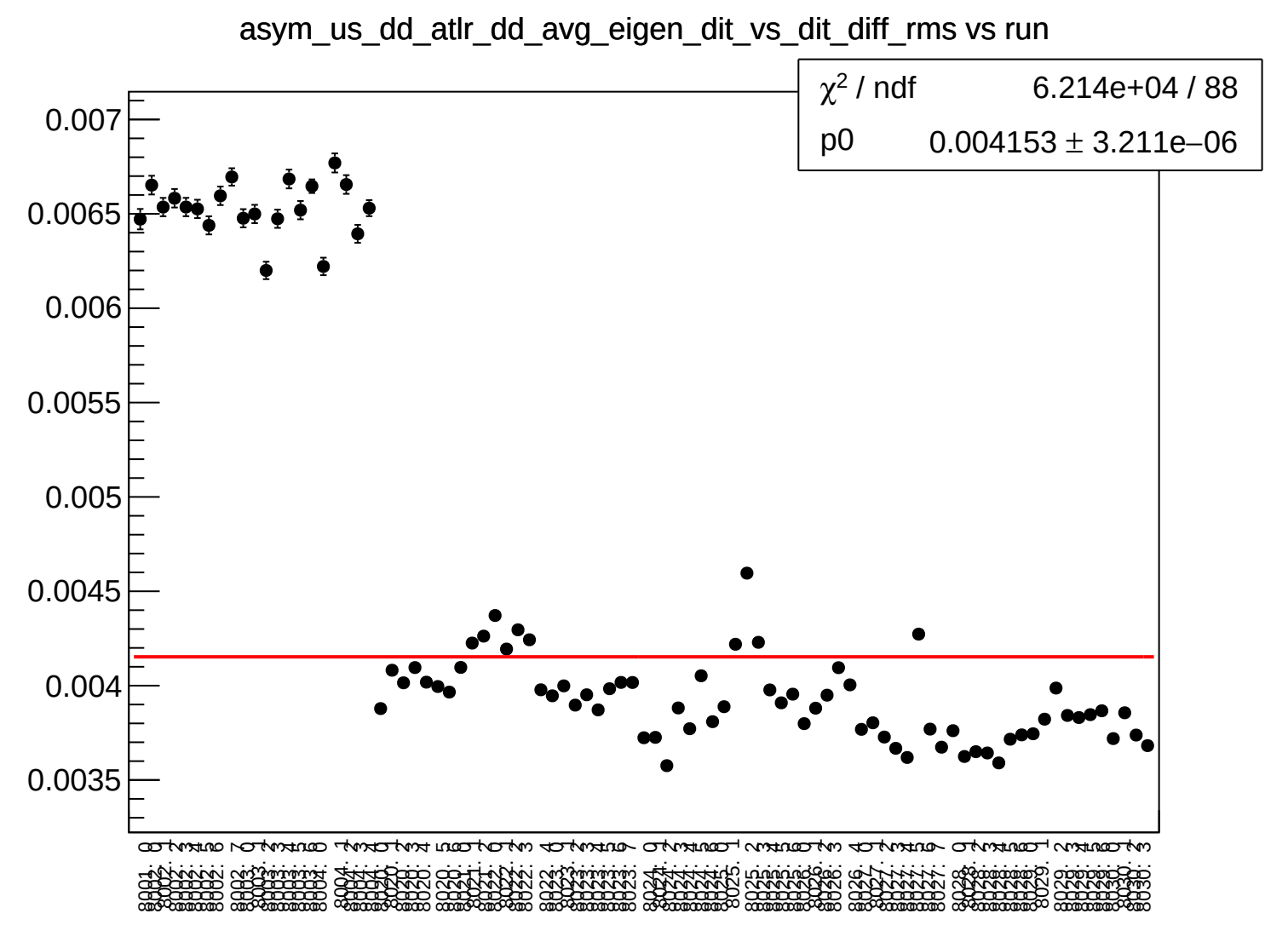

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.57 / 88
p0 −0.0001148 ± 0.08409
pull
Entries 89
Mean 80.16
Std Dev 0

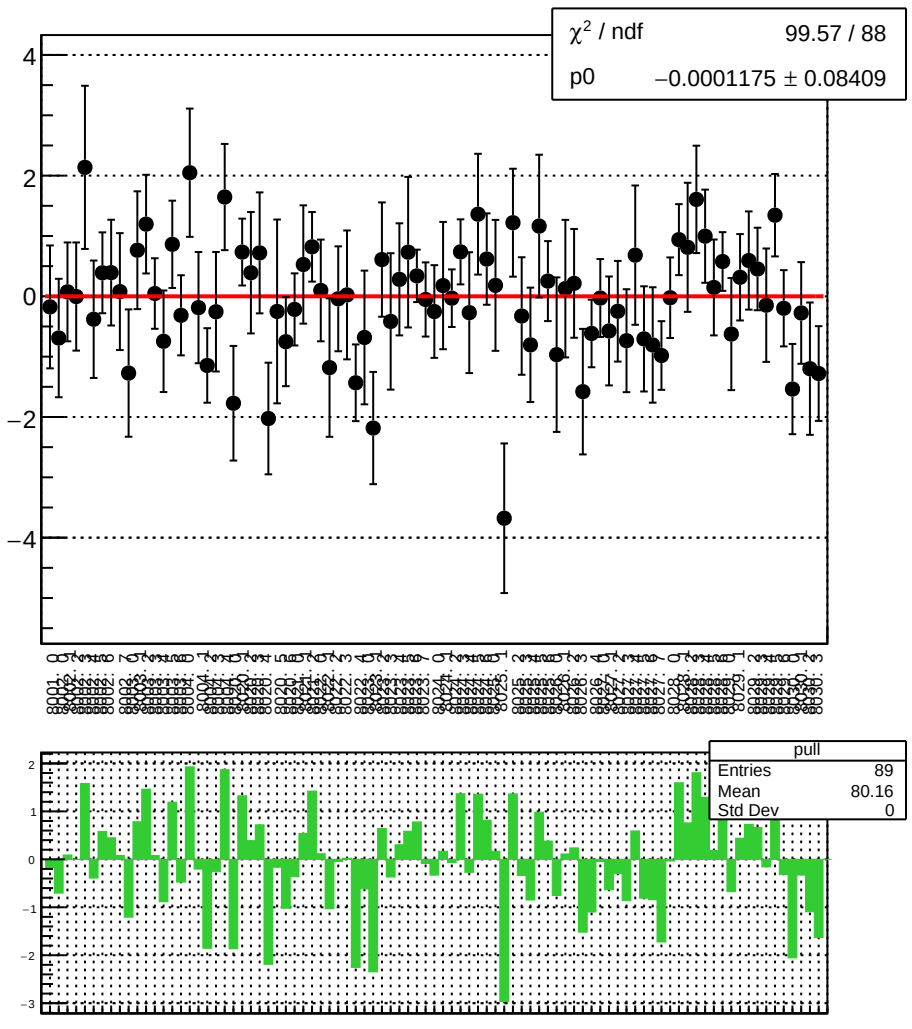

pull1D
Entries 89
Mean −0.03442
Std Dev 1.057

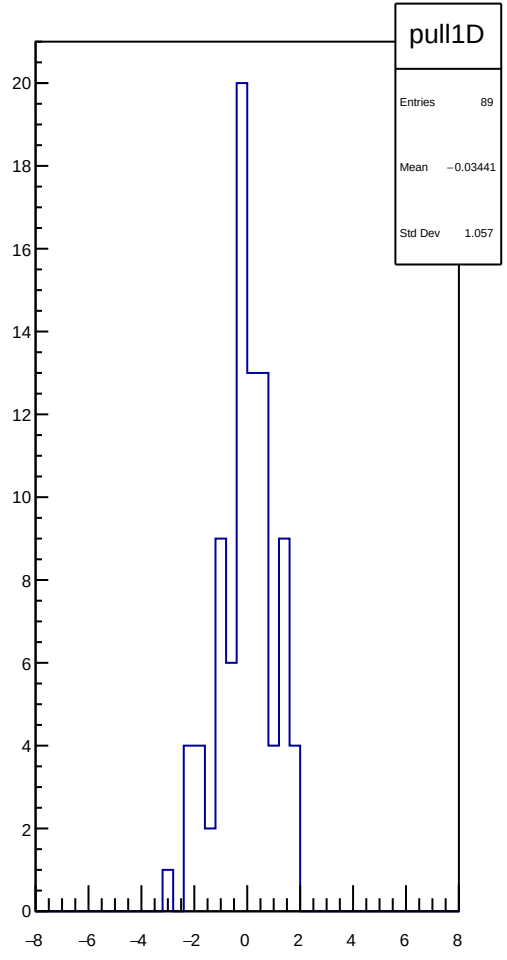

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.687e+04 / 88
p0 76.1 ± 0.05946
140
120
100
80
60
40

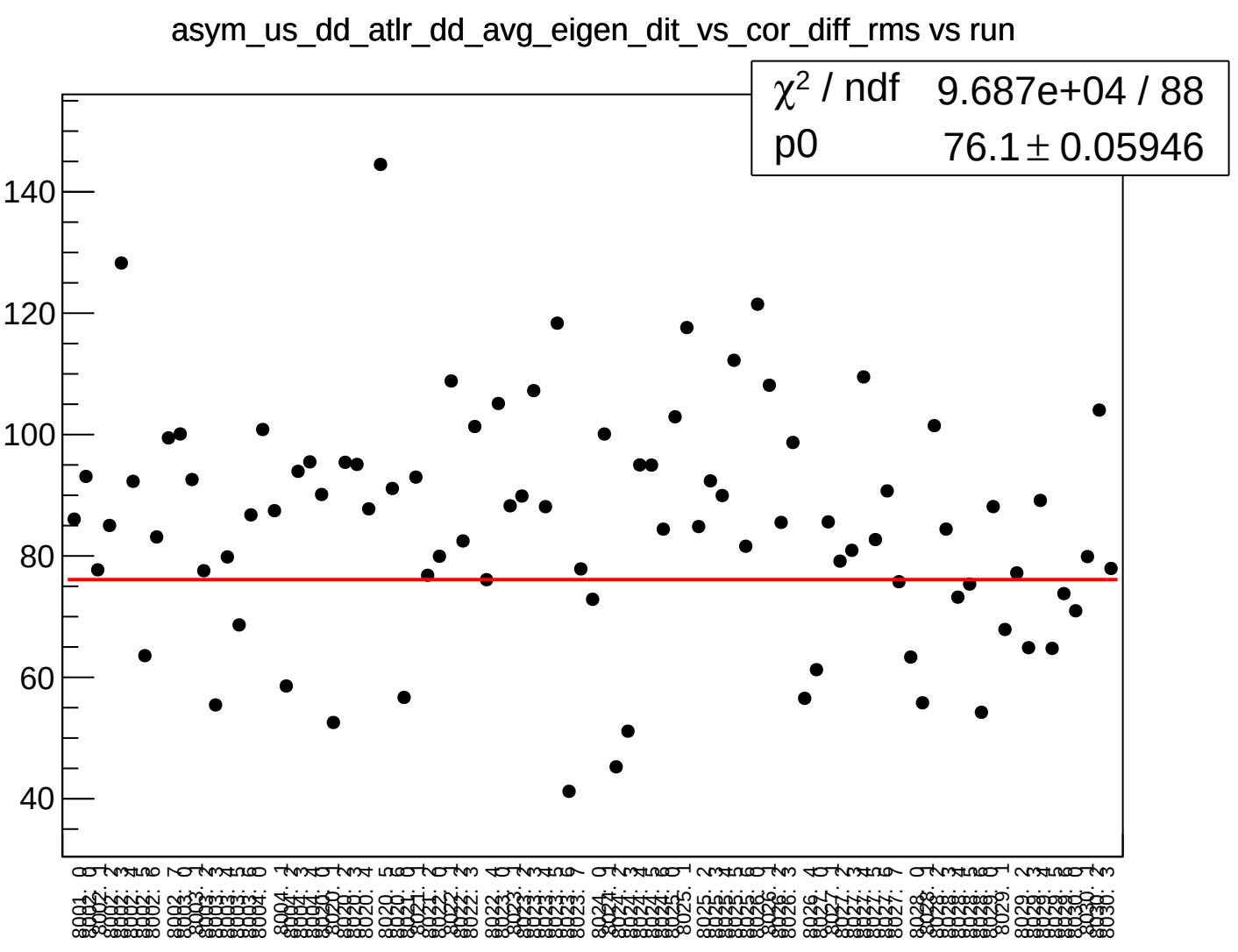

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83.27 / 88
p0 1.154e−06 ± 4.541e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 89
Mean 758.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

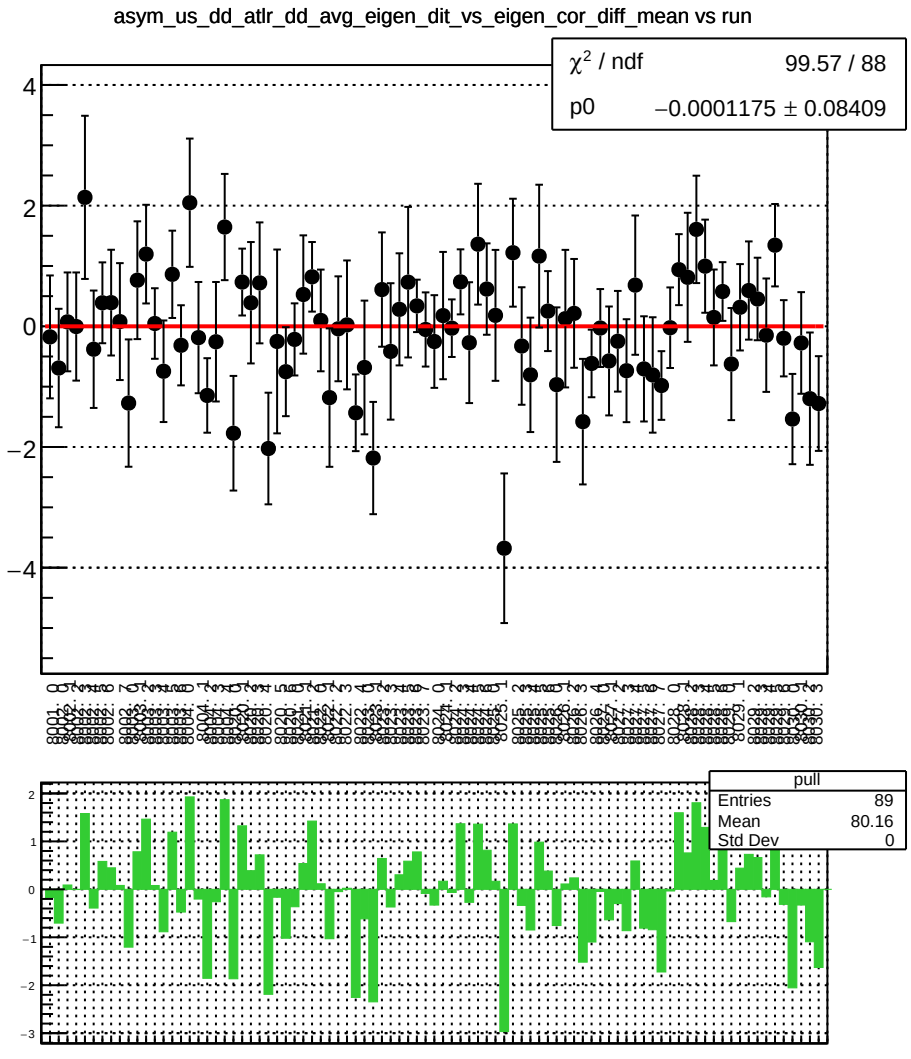

pull1D
Entries 89
Mean 0.005087
Std Dev 0.9673
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

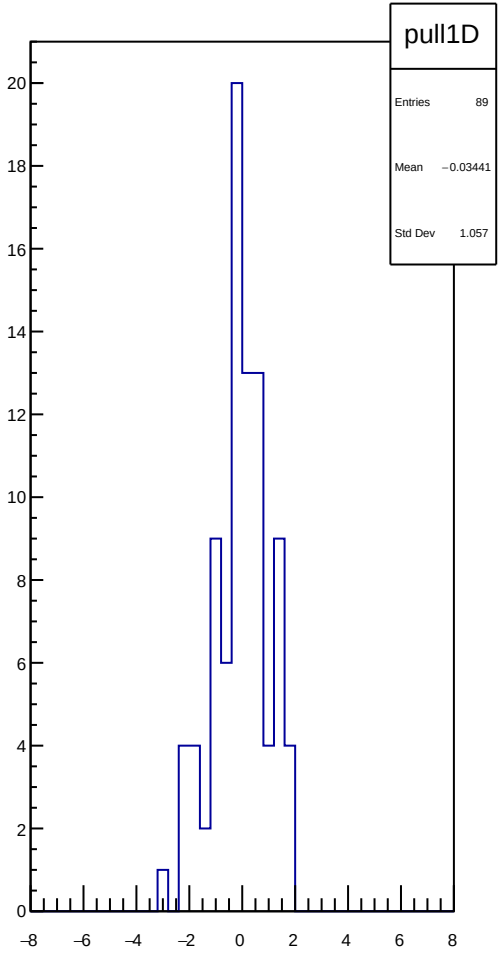

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.214e+04 / 88
p0 0.004153 ± 3.211e−06
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035

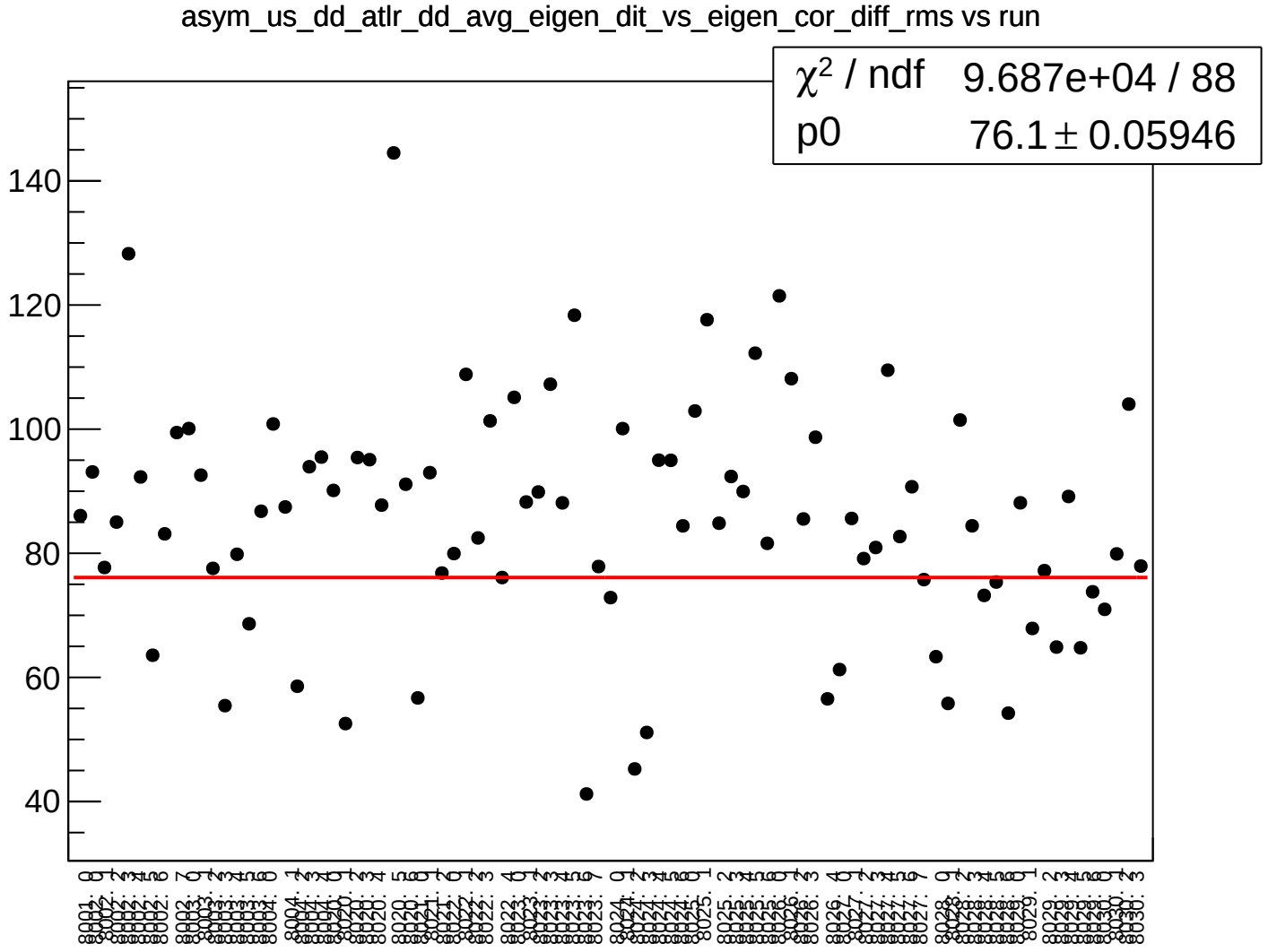

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 99.57 / 88
p0 −0.0001175 ± 0.08409
pull
Entries 89
Mean 80.16
Std Dev 0

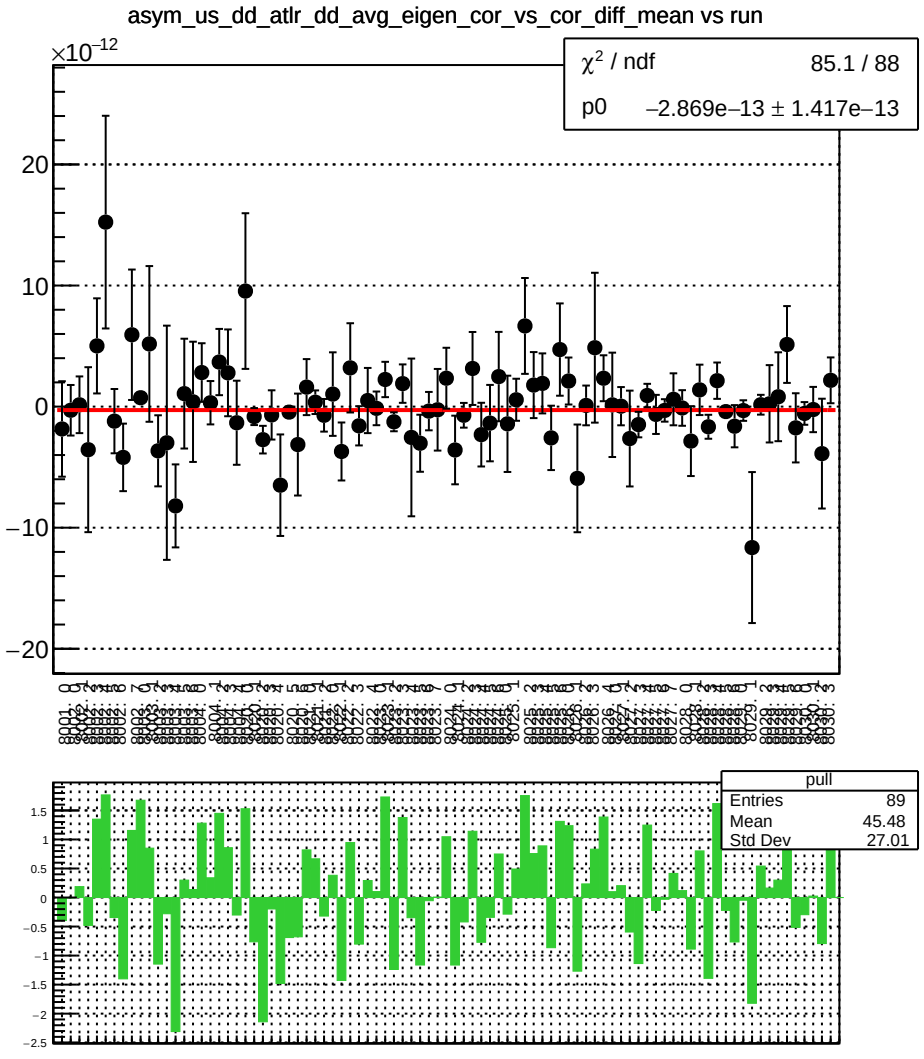

pull1D
Entries 89
Mean −0.03441
Std Dev 1.057

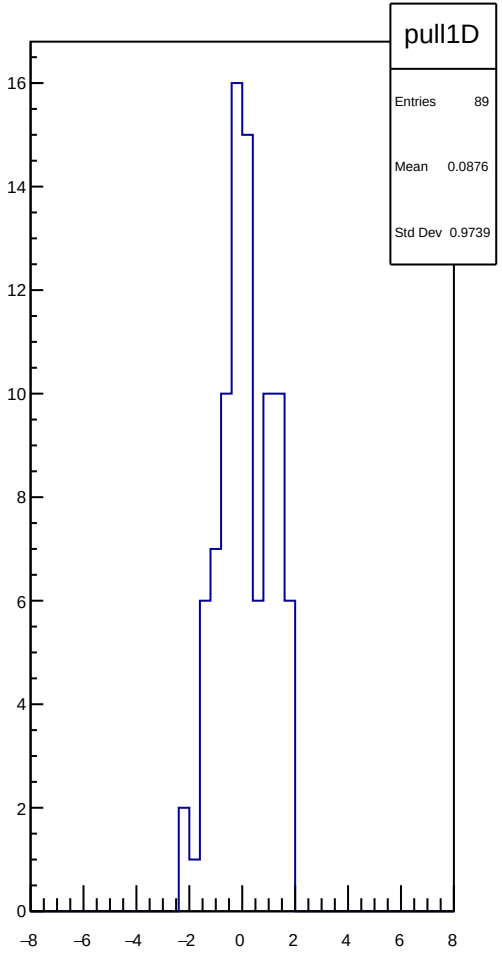

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.687e+04 / 88
p0 76.1 ± 0.05946
140
120
100
80
60
40

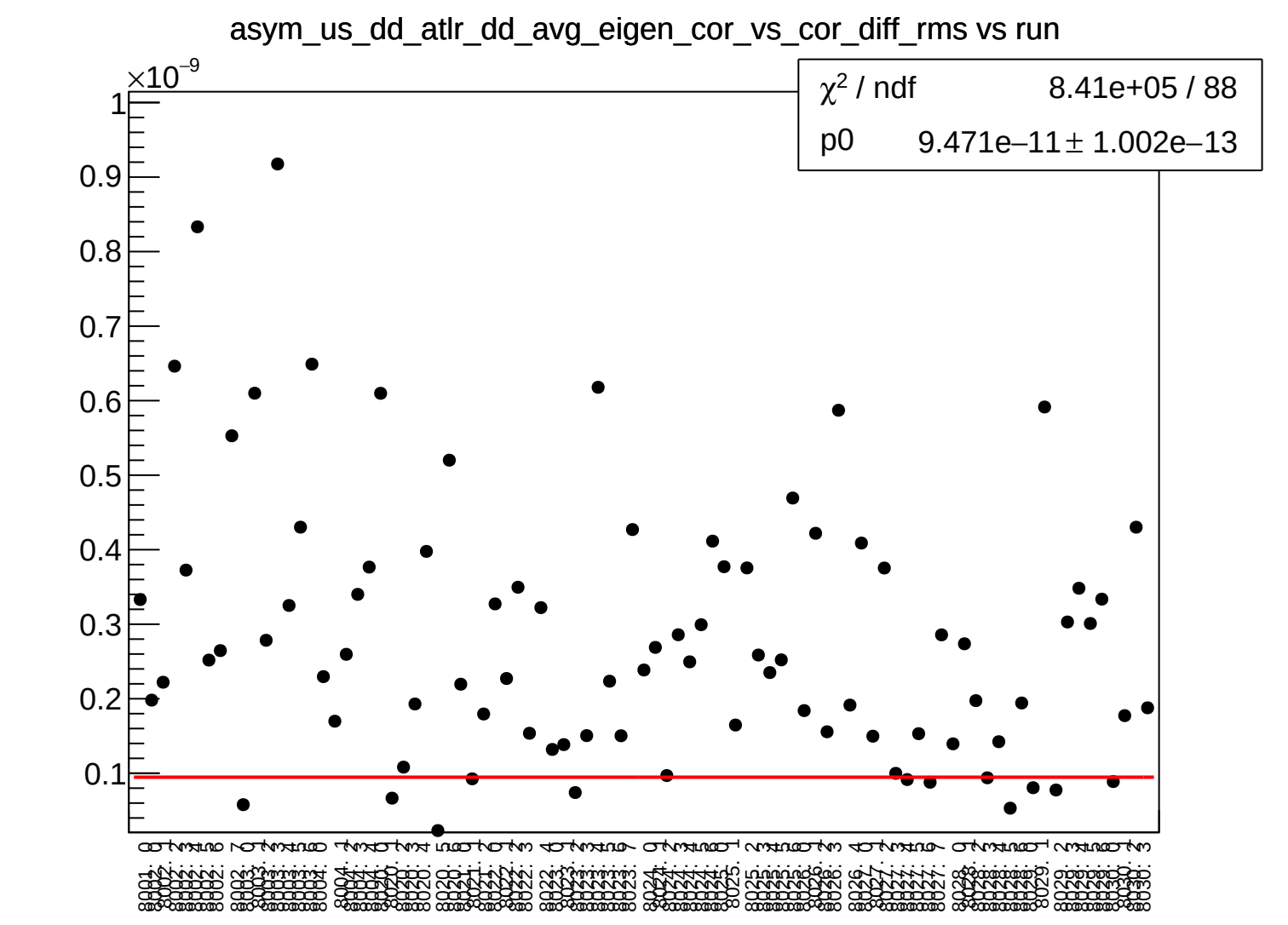

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.57 / 88
p0 −0.0001175 ± 0.08409
pull
Entries 89
Mean 80.16
Std Dev 0

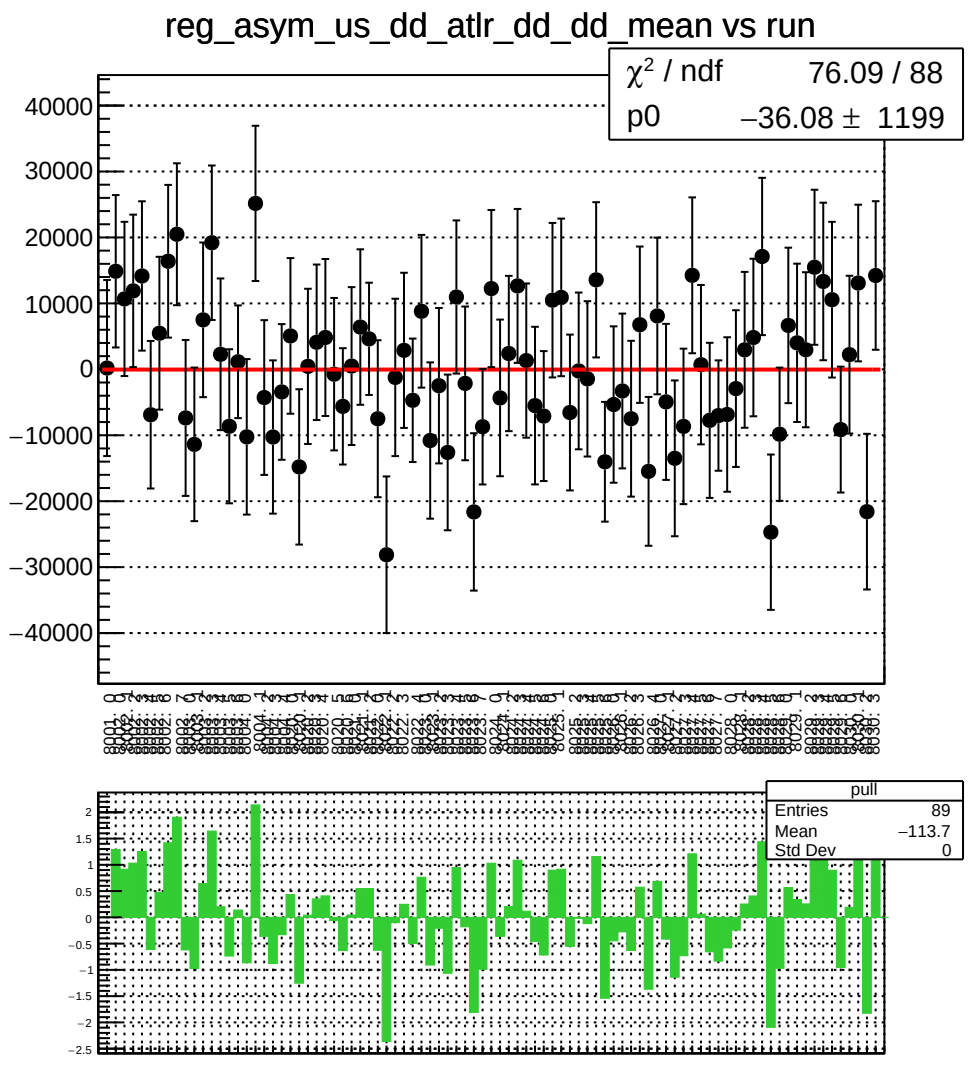

pull1D
Entries 89
Mean −0.03441
Std Dev 1.057

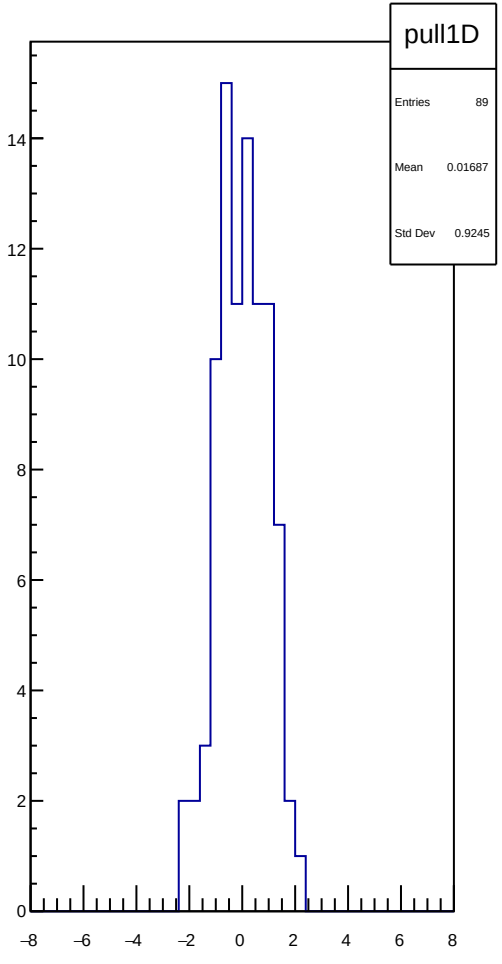

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.687e+04 / 88
p0 76.1 ± 0.05946
140
120
100
80
60
40

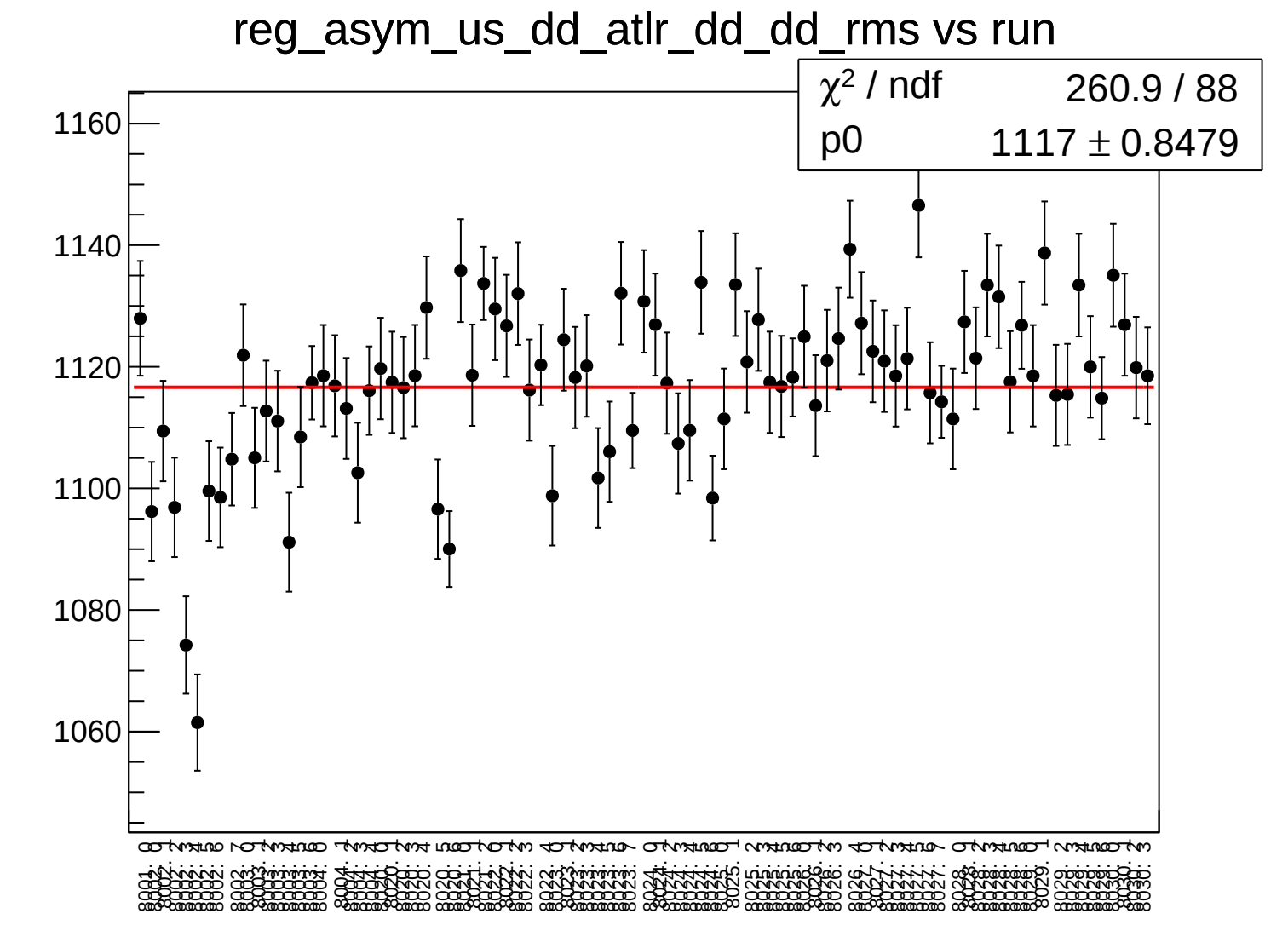

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.1 / 88
p0 −2.869e−13 ± 1.417e−13
pull
Entries 89
Mean 45.48
Std Dev 27.01

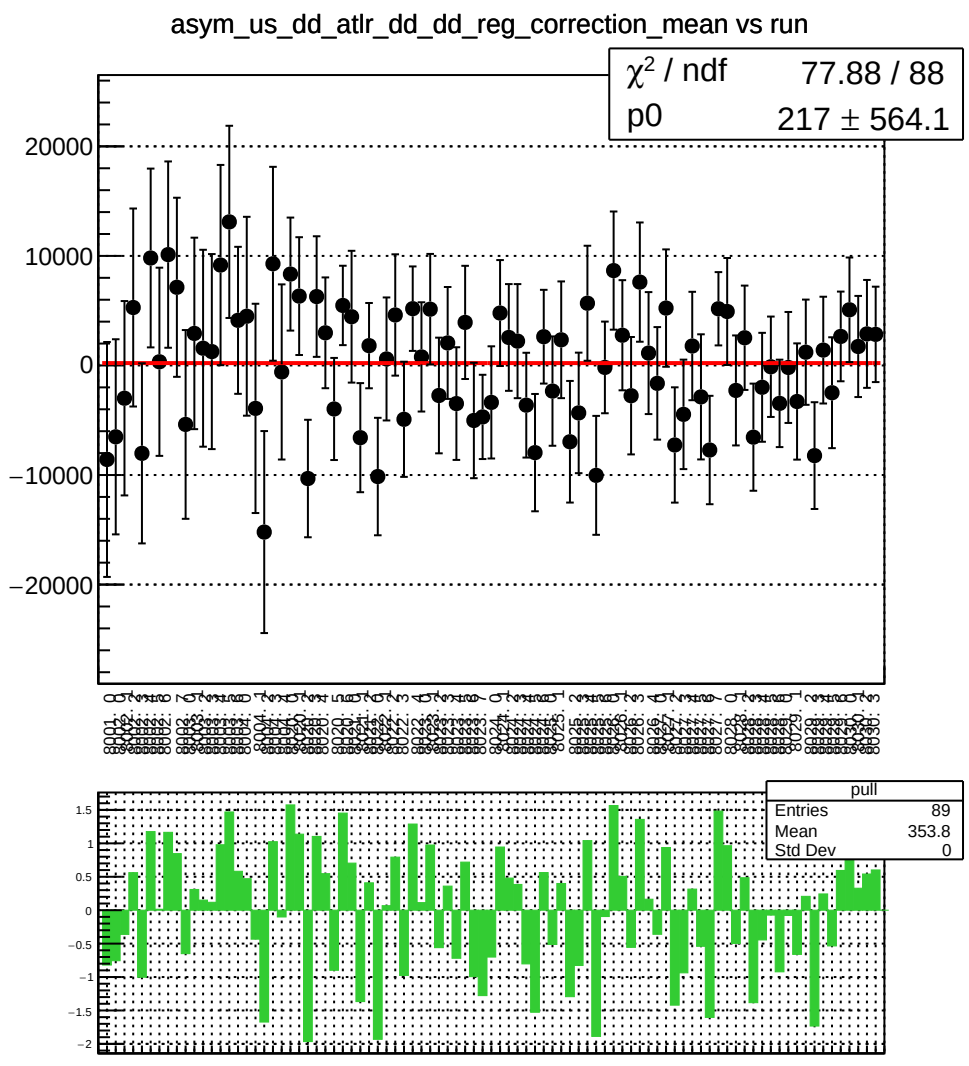

pull1D
Entries 89
Mean 0.0876
Std Dev 0.9739

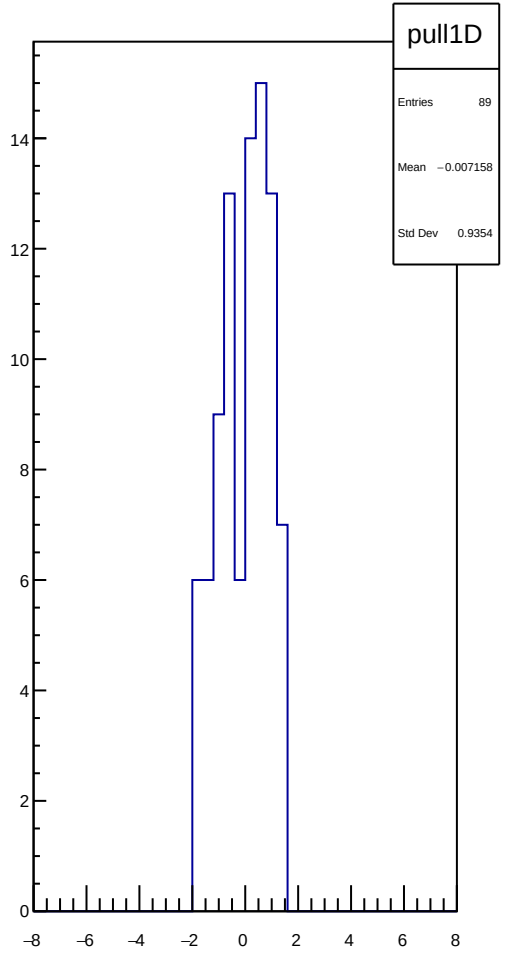

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.41e+05 / 88
p0 9.471e−11 ± 1.002e−13
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

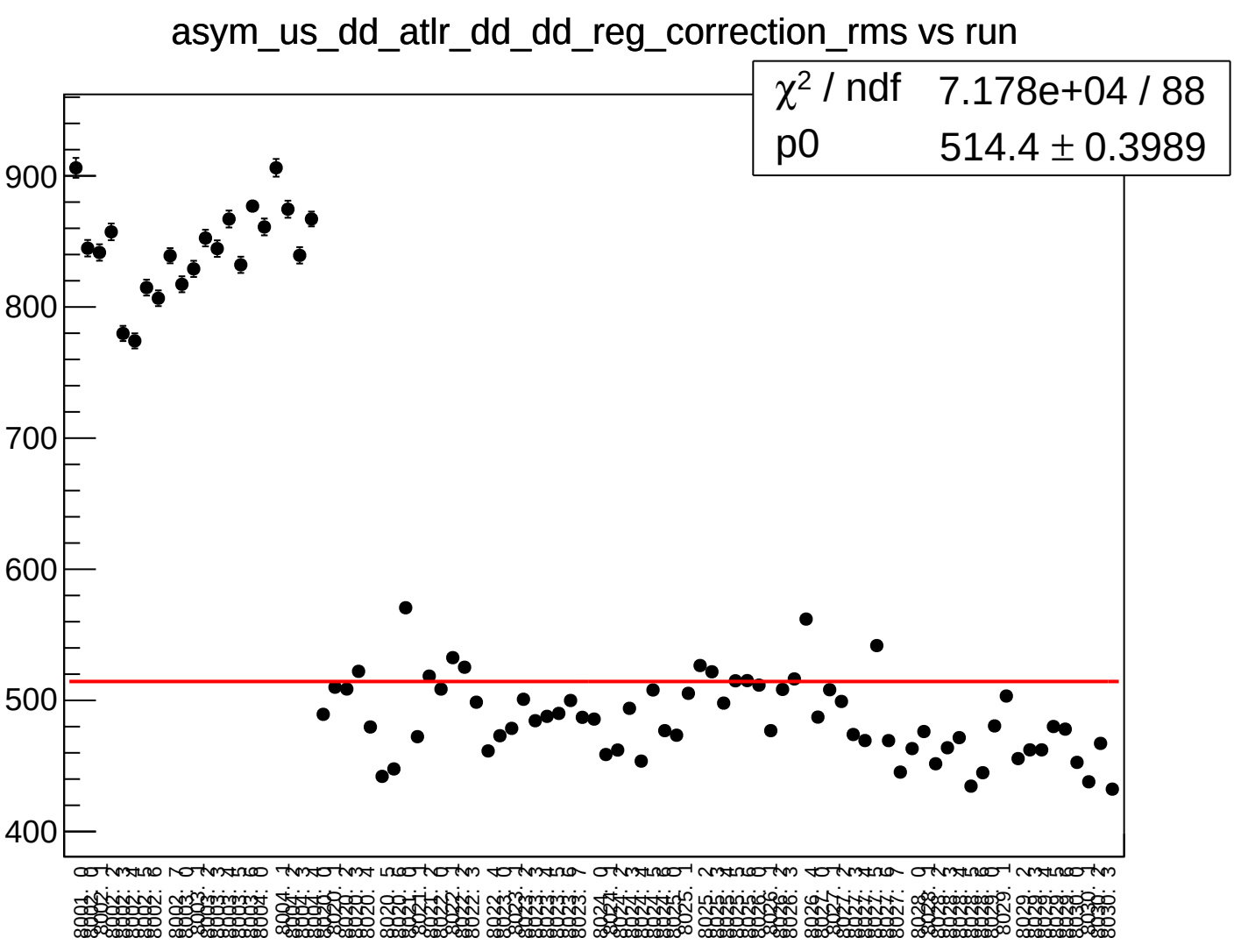

reg_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 76.09 / 88
p0 −36.08 ± 1199
pull
Entries 89
Mean −113.7
Std Dev 0

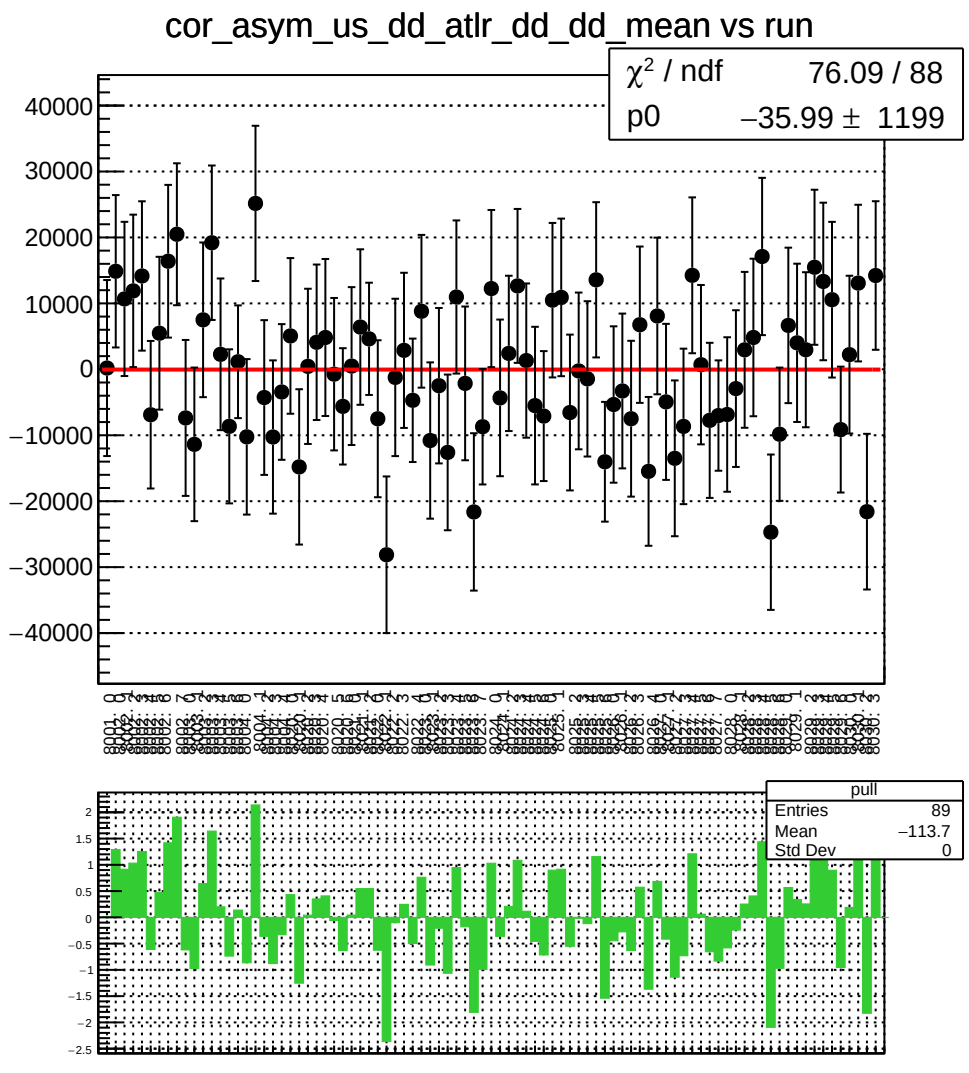

pull1D
Entries 89
Mean 0.01687
Std Dev 0.9245

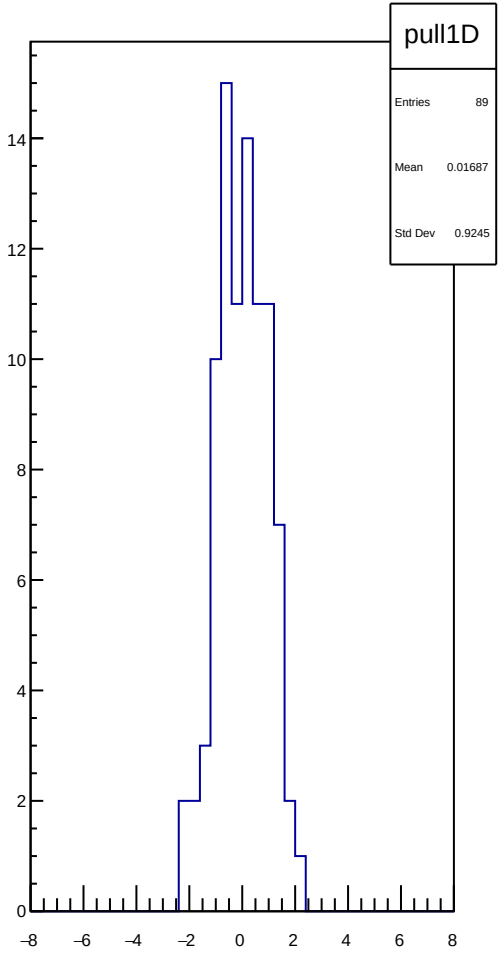

reg_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 260.9 / 88
p0 1117 ± 0.8479
1160
1140
1120
1100
1080
1060

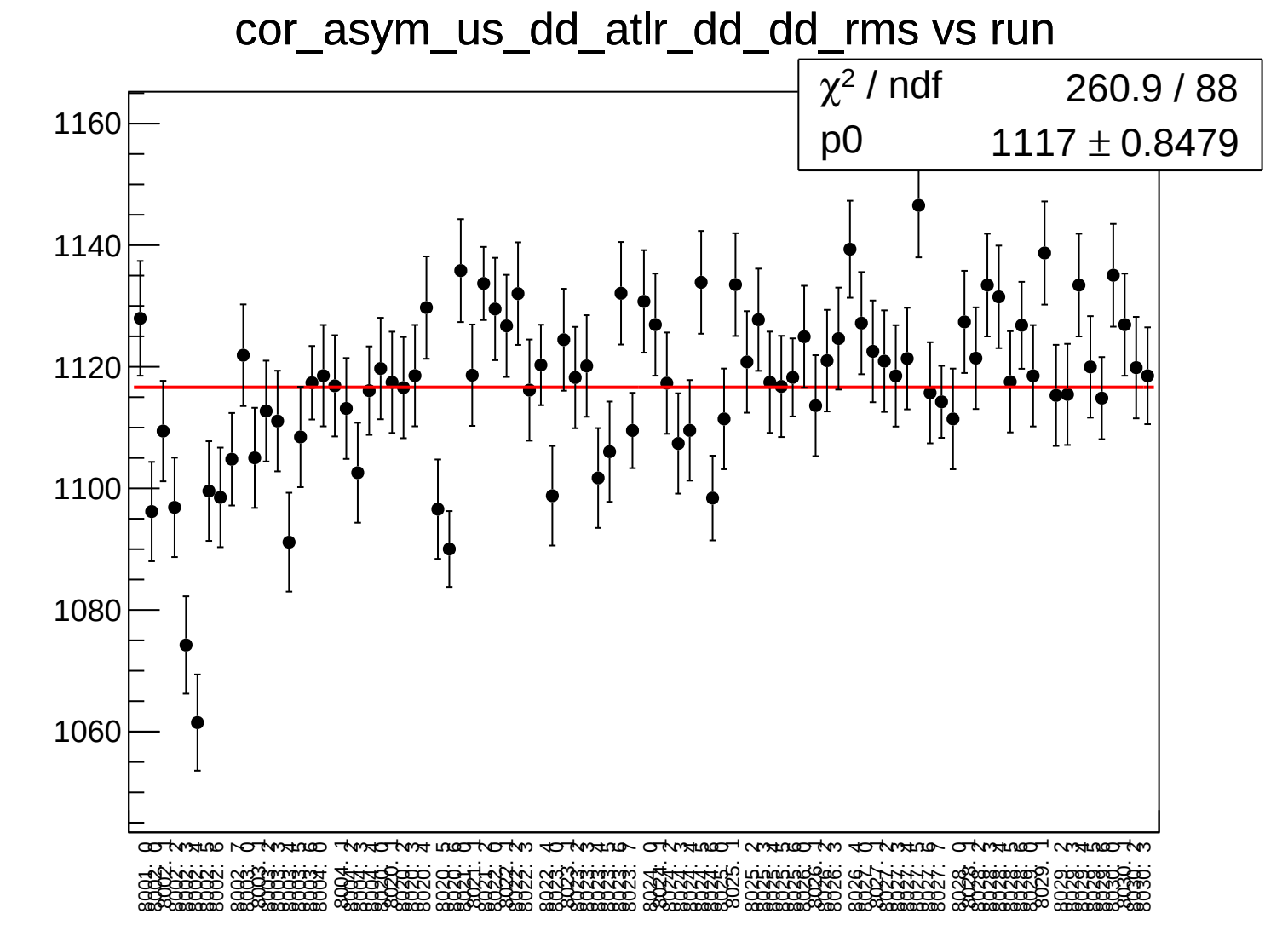

asym_us_dd_atlr_dd_dd_reg_correction_mean vs run
χ² / ndf 77.88 / 88
p0 217 ± 564.1
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 353.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

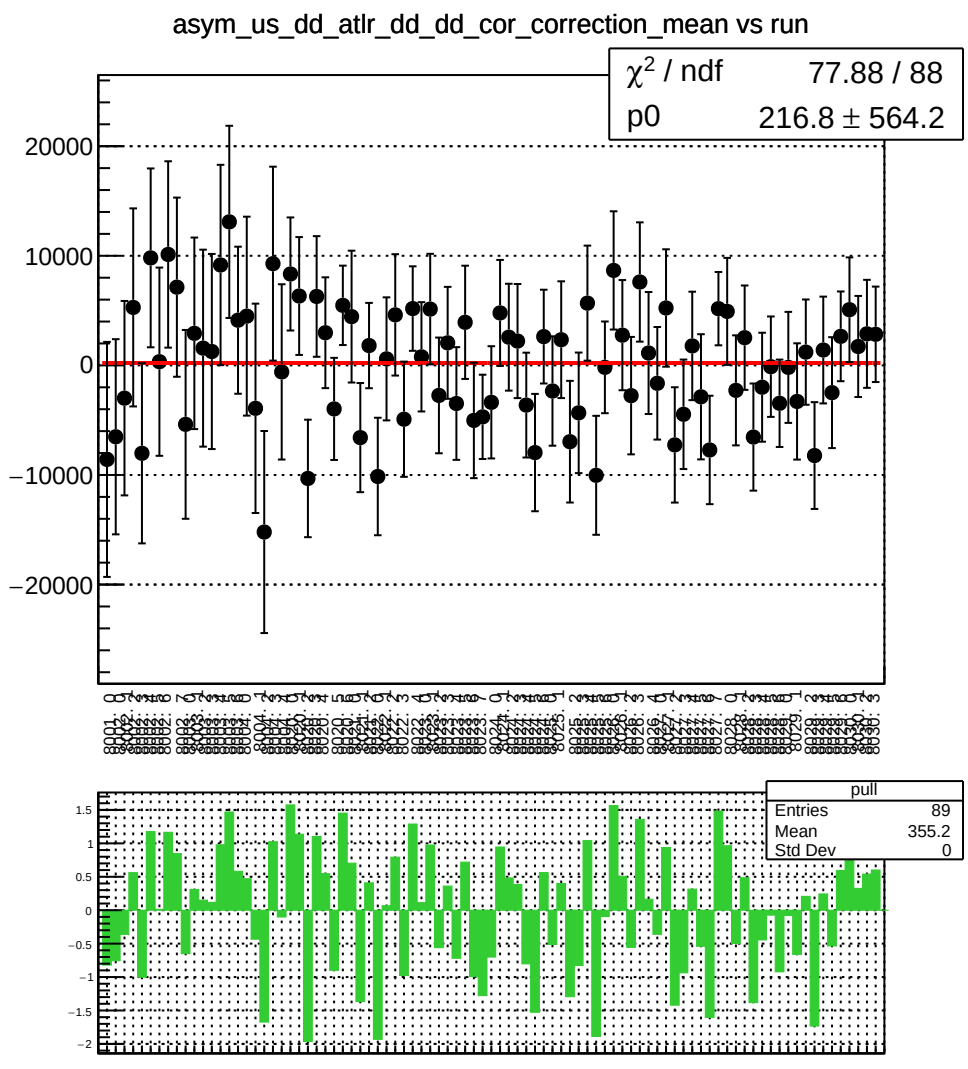

pull1D
Entries 89
Mean −0.007158
Std Dev 0.9354
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

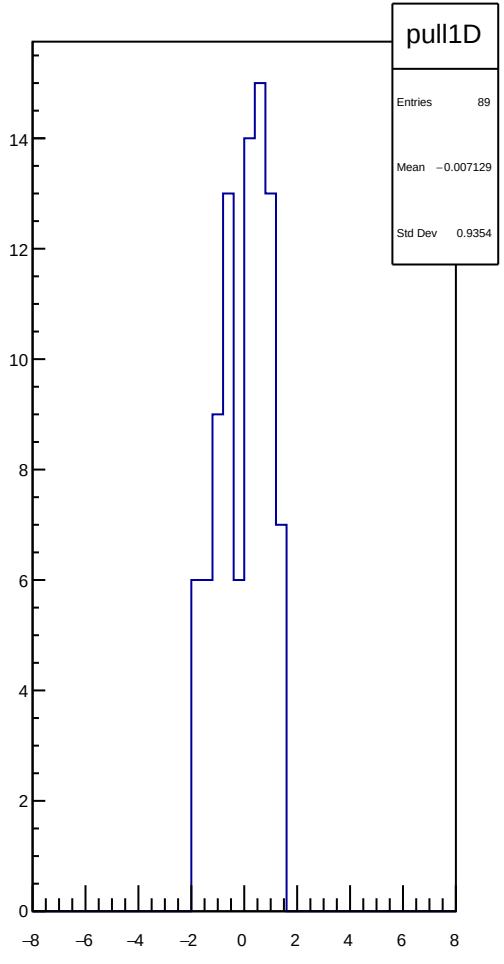

asym_us_dd_atlr_dd_dd_reg_correction_rms vs run
χ² / ndf 7.178e+04 / 88
p0 514.4 ± 0.3989
900
800
700
600
500
400

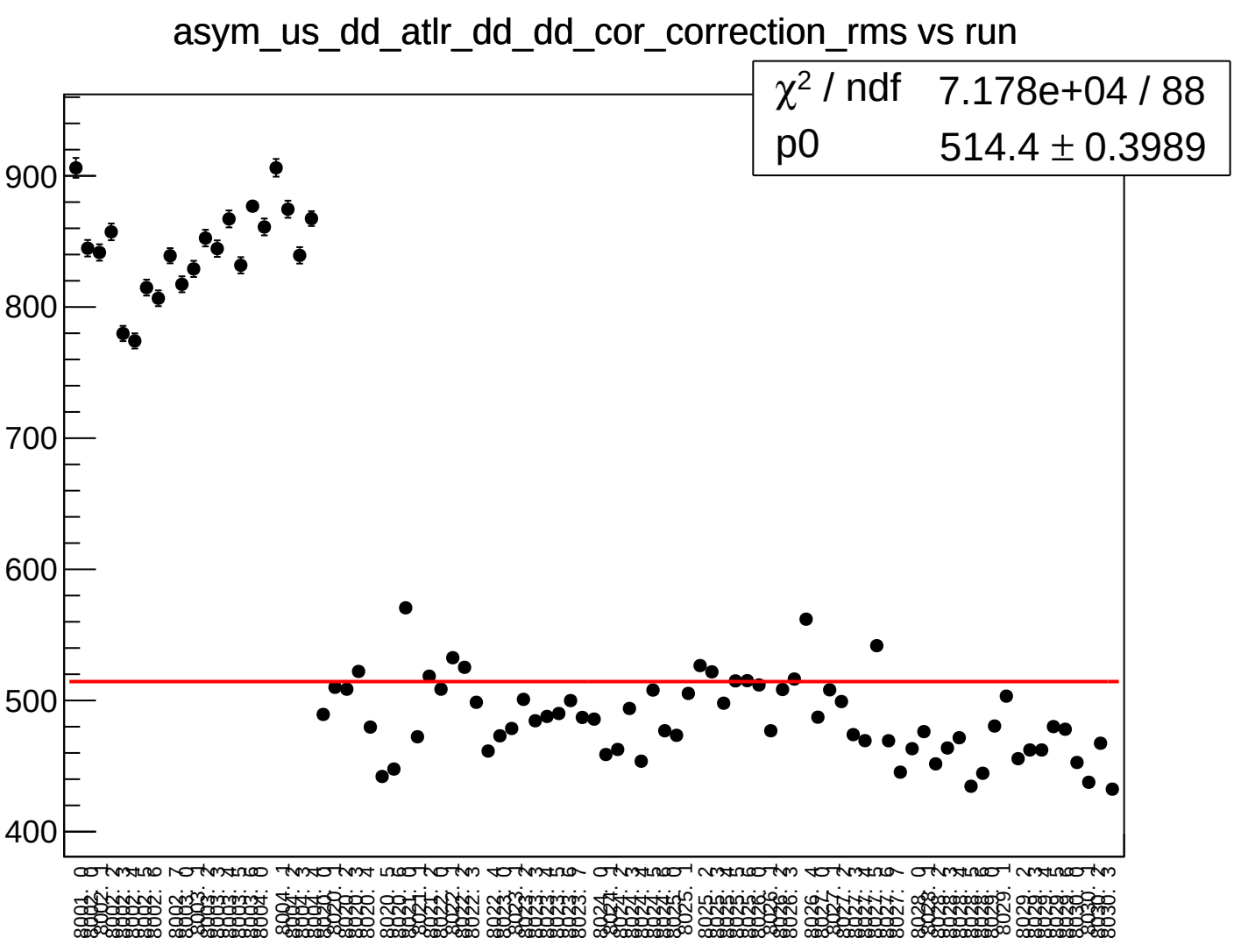

cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 76.09 / 88
p0 −35.99 ± 1199
pull
Entries 89
Mean −113.7
Std Dev 0

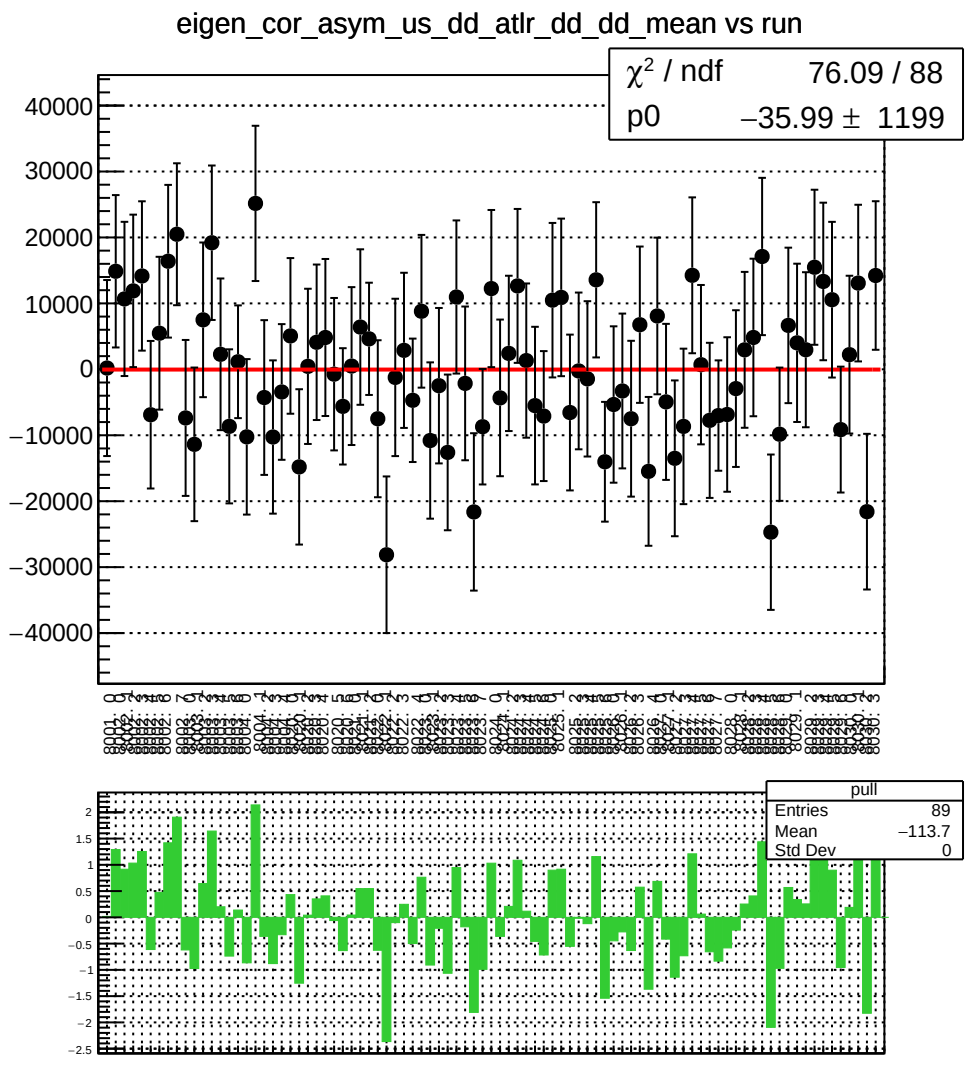

pull1D
Entries 89
Mean 0.01687
Std Dev 0.9245

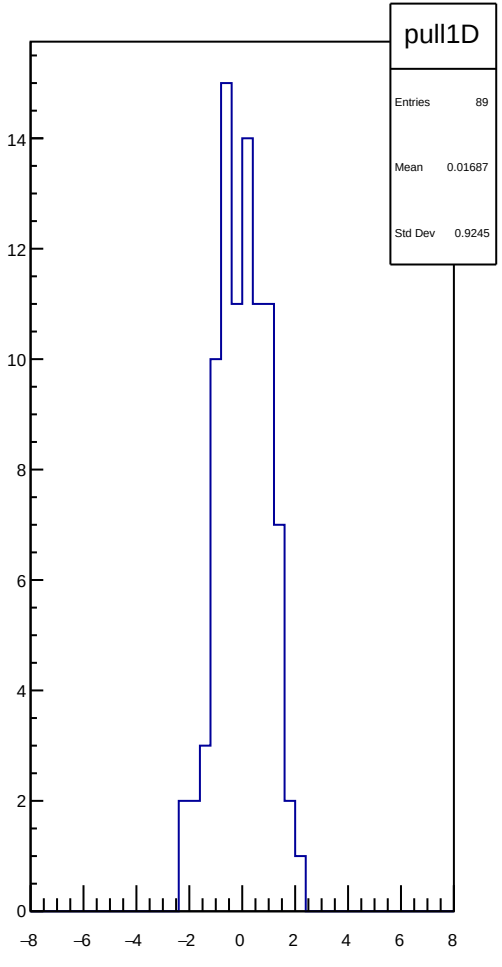

cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 260.9 / 88
p0 1117 ± 0.8479
1160
1140
1120
1100
1080
1060

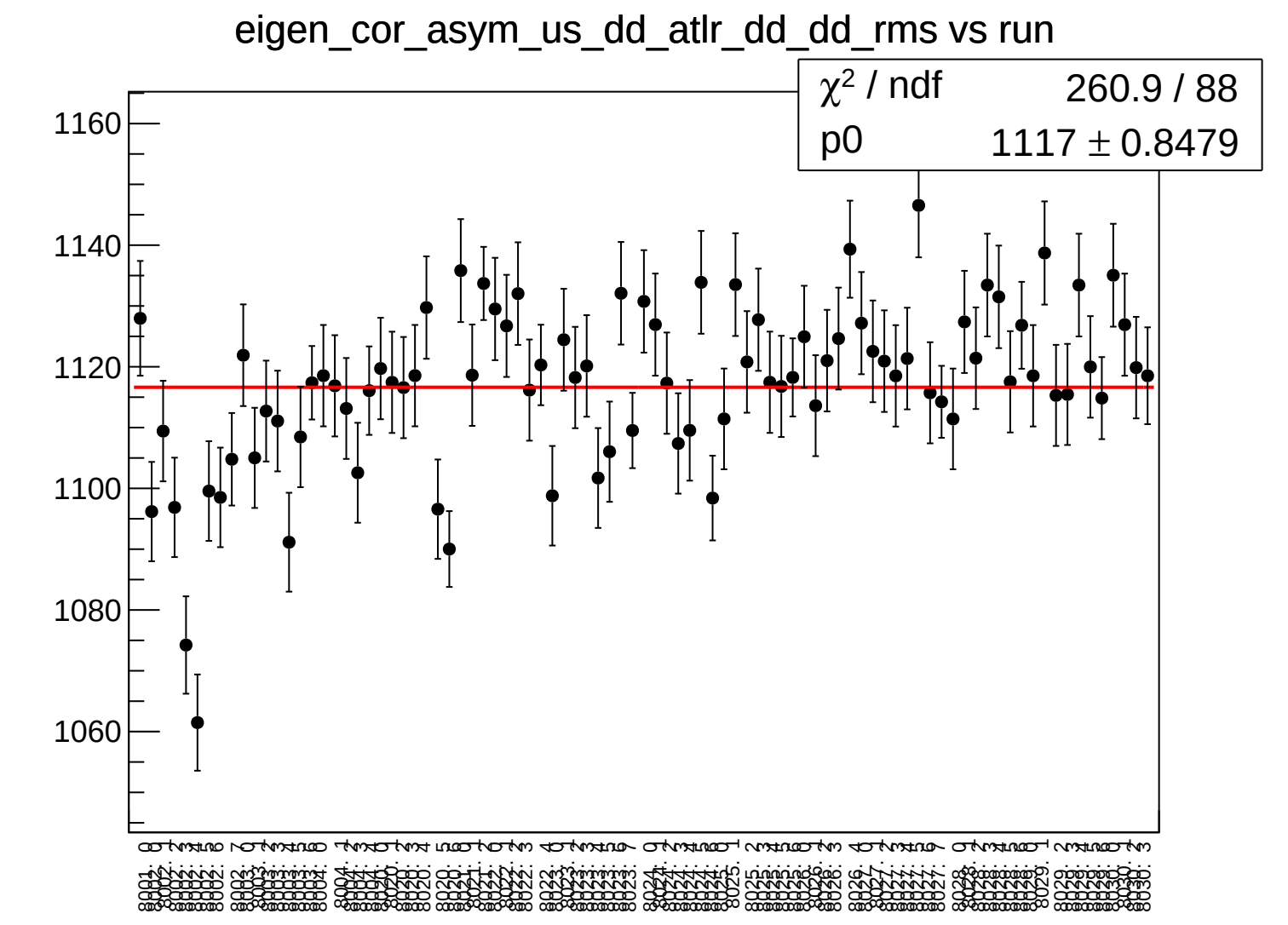

asym_us_dd_atlr_dd_dd_cor_correction_mean vs run
χ² / ndf 77.88 / 88
p0 216.8 ± 564.2
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 355.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

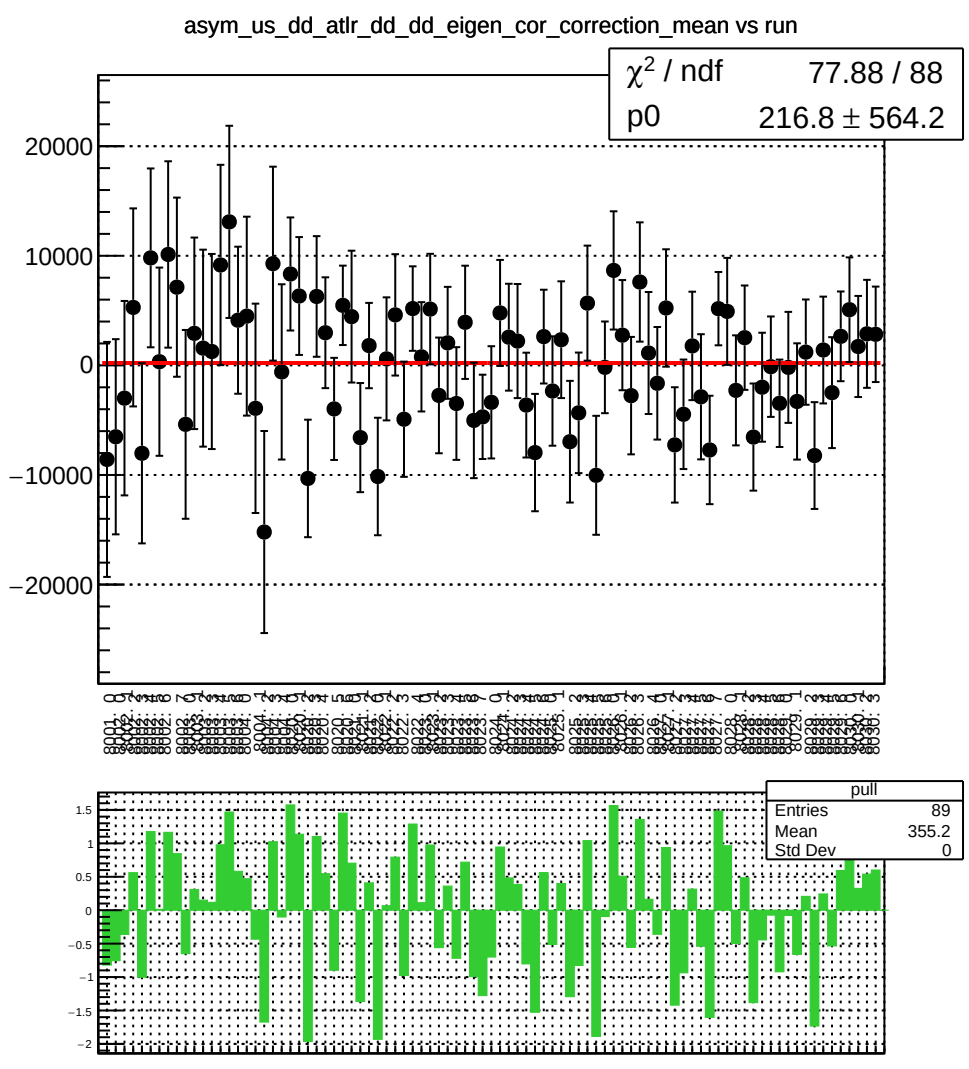

pull1D
Entries 89
Mean −0.007129
Std Dev 0.9354
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

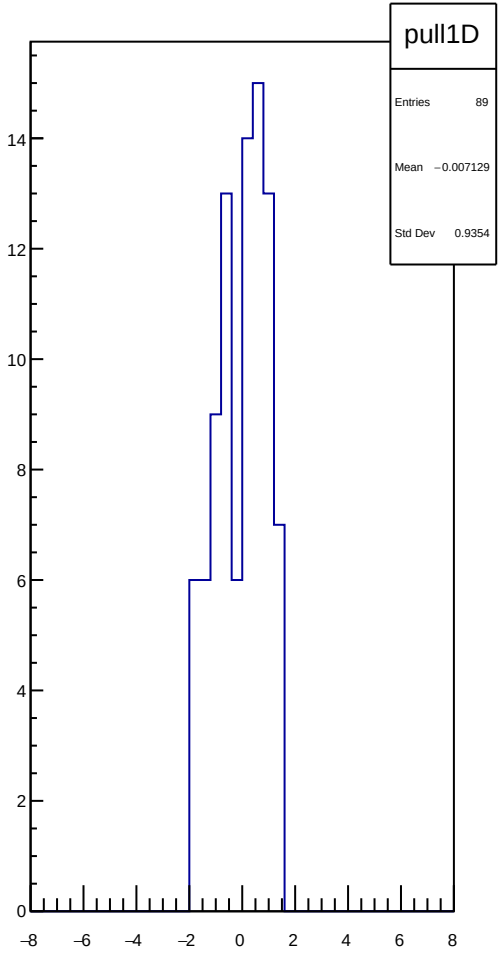

asym_us_dd_atlr_dd_dd_cor_correction_rms vs run
χ² / ndf 7.178e+04 / 88
p0 514.4 ± 0.3989
900
800
700
600
500
400

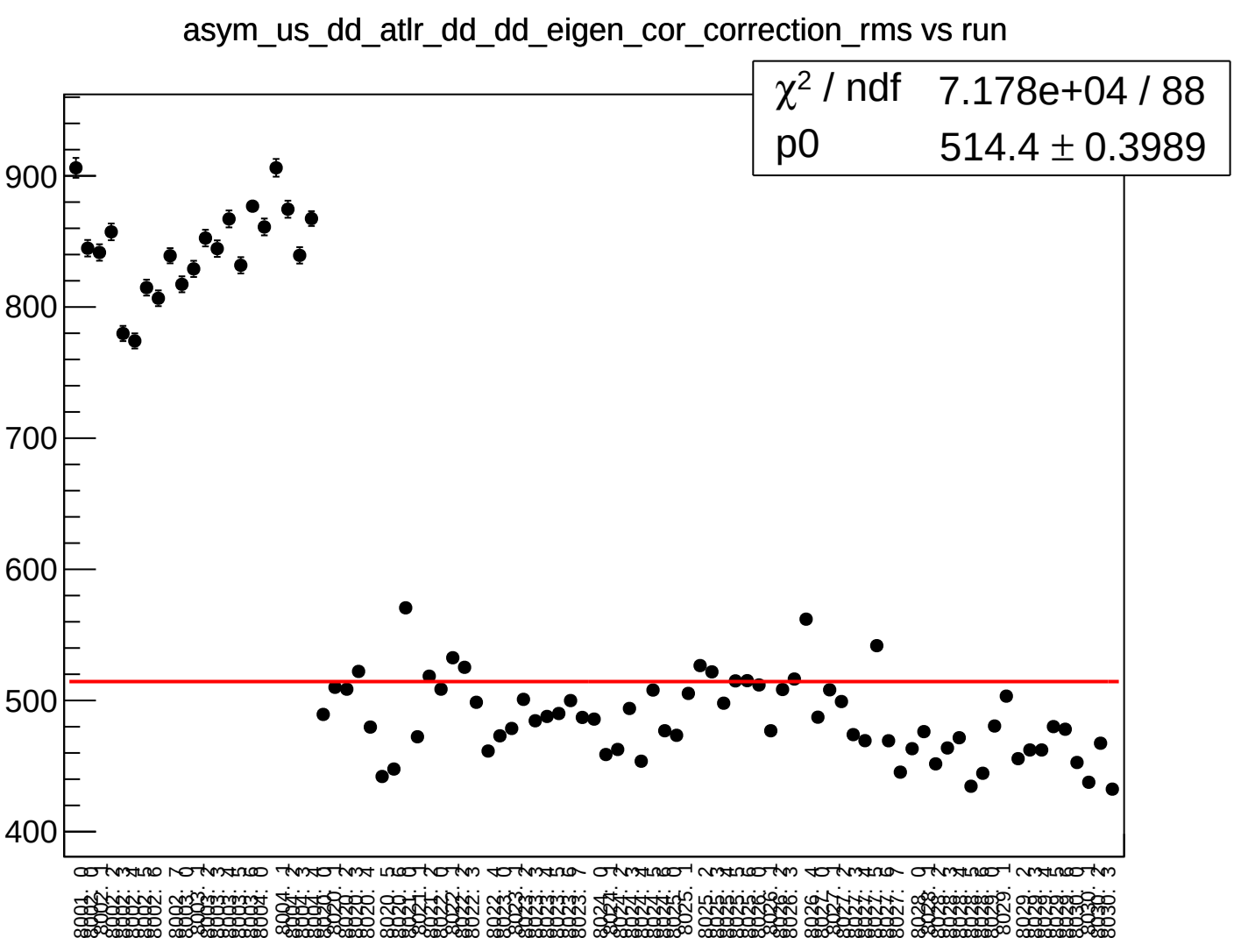

eigen_cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 76.09 / 88
p0 −35.99 ± 1199
pull
Entries 89
Mean −113.7
Std Dev 0

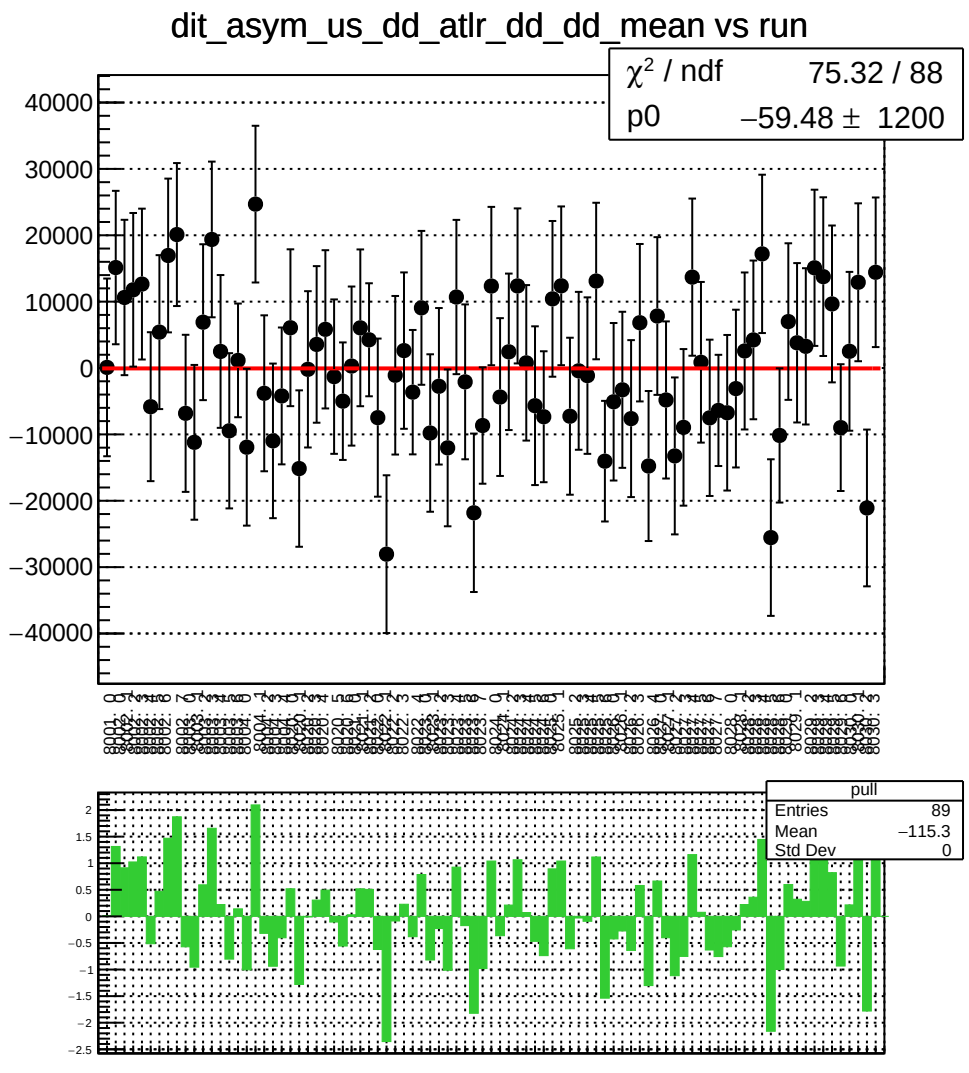

pull1D
Entries 89
Mean 0.01687
Std Dev 0.9245

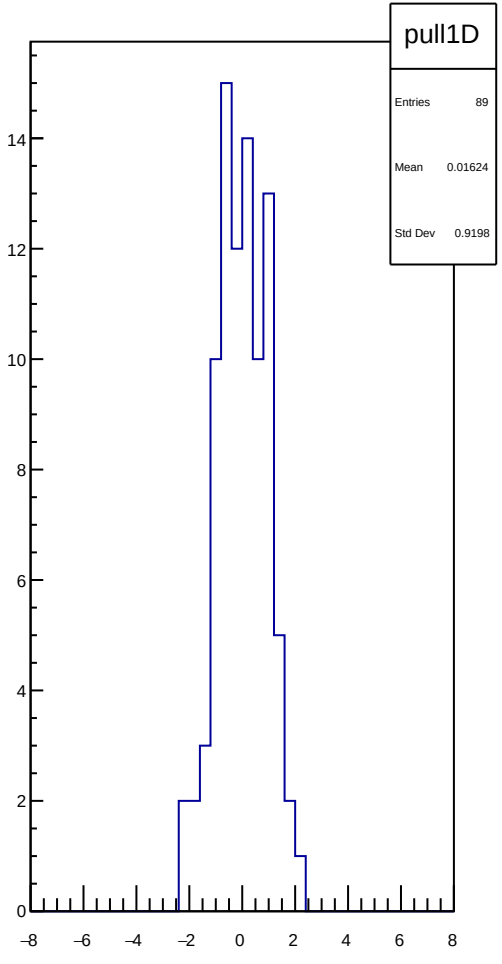

eigen_cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 260.9 / 88
p0 1117 ± 0.8479
1160
1140
1120
1100
1080
1060

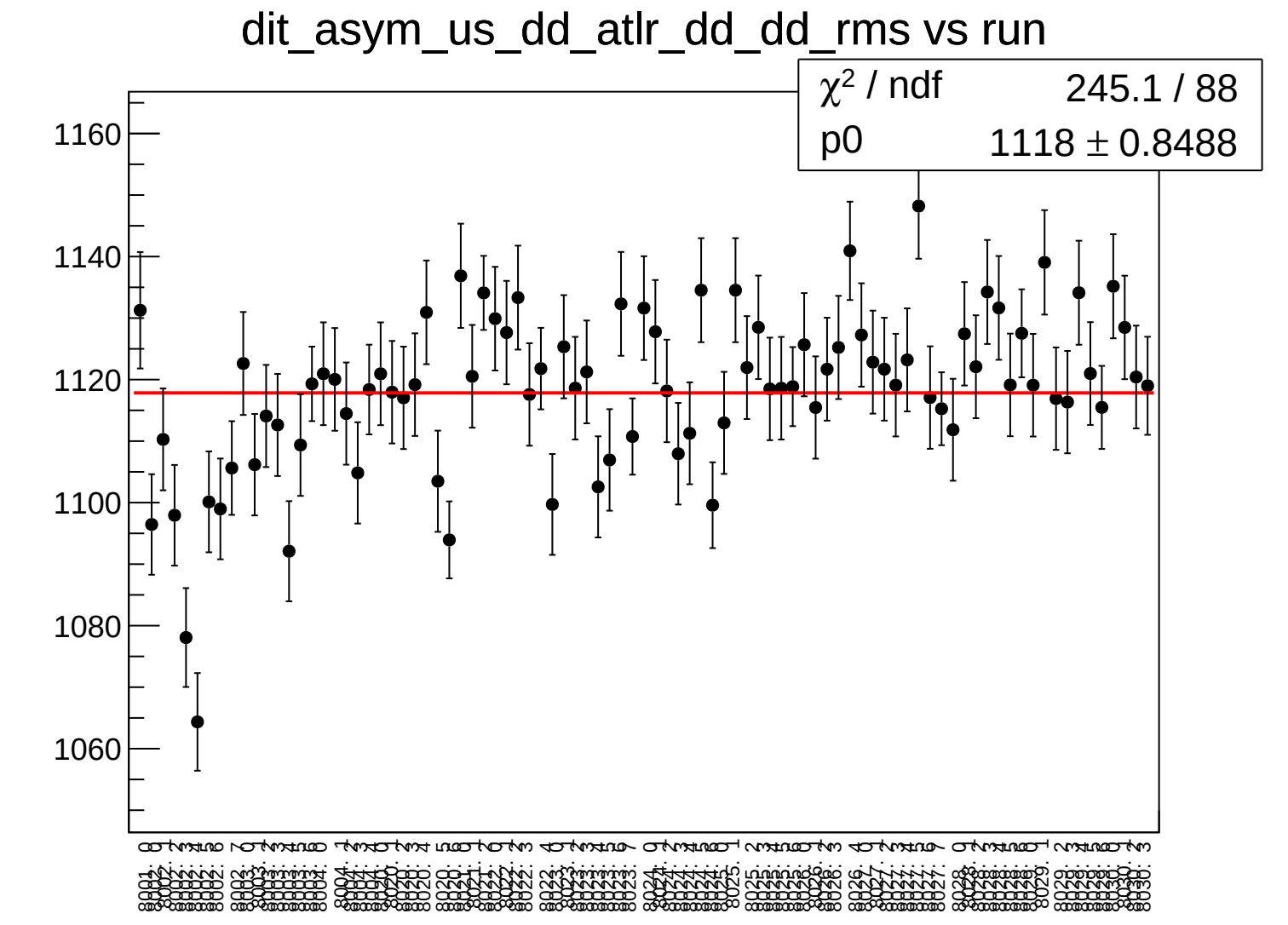

asym_us_dd_atlr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 77.88 / 88
p0 216.8 ± 564.2
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 355.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

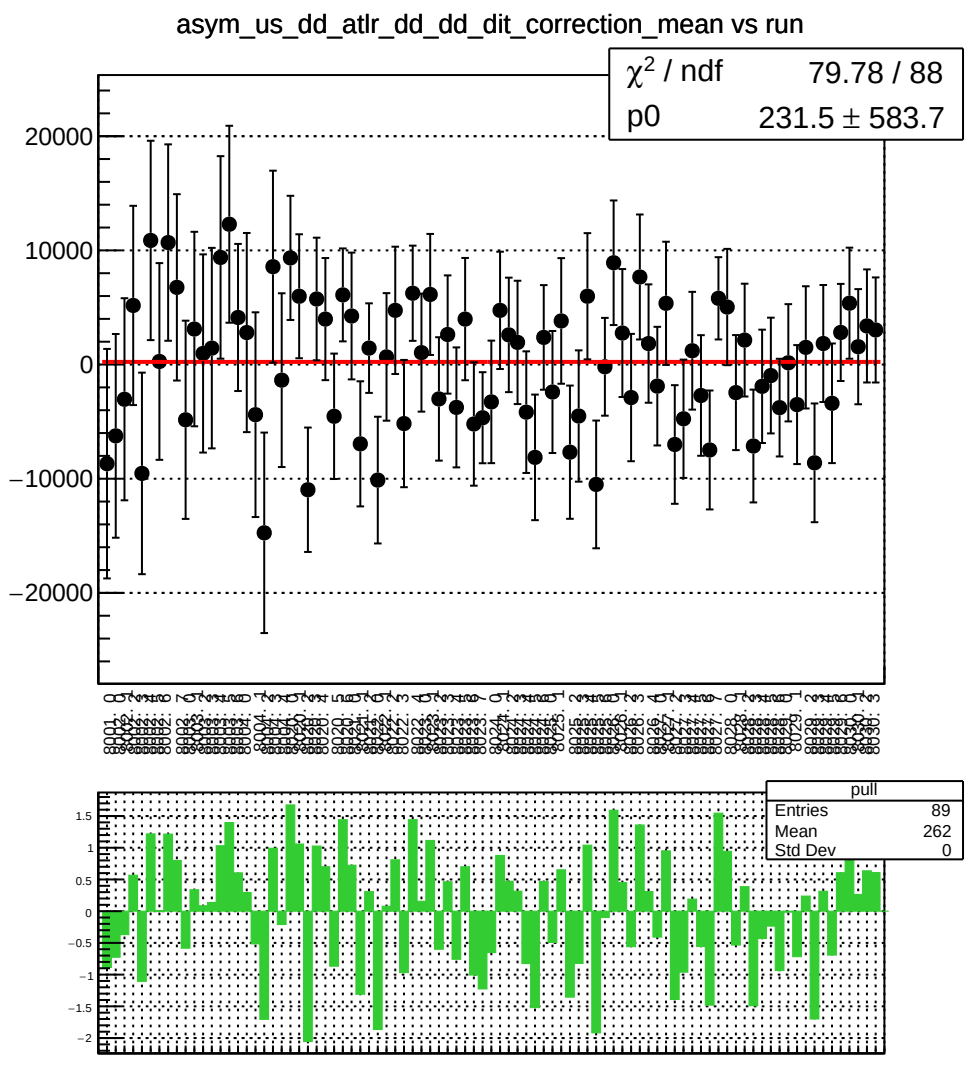

pull1D
Entries 89
Mean −0.007129
Std Dev 0.9354
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

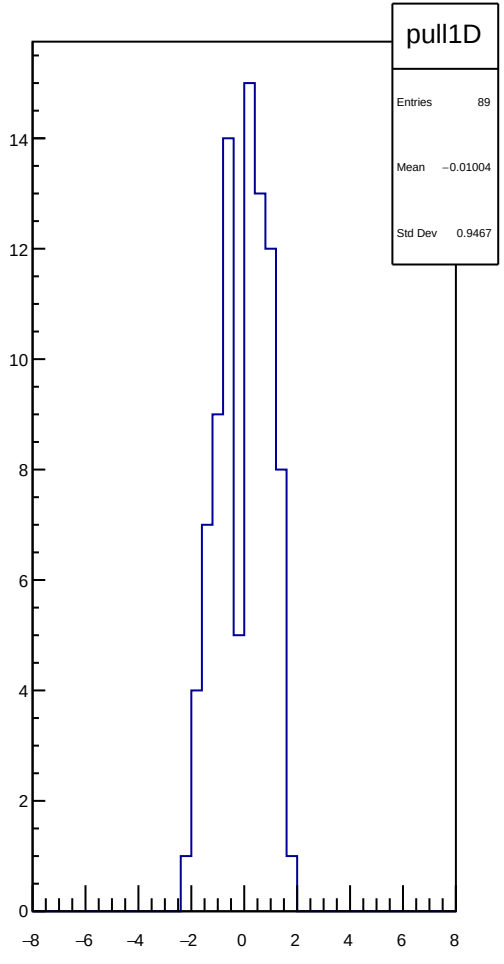

asym_us_dd_atlr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 7.178e+04 / 88
p0 514.4 ± 0.3989
900
800
700
600
500
400

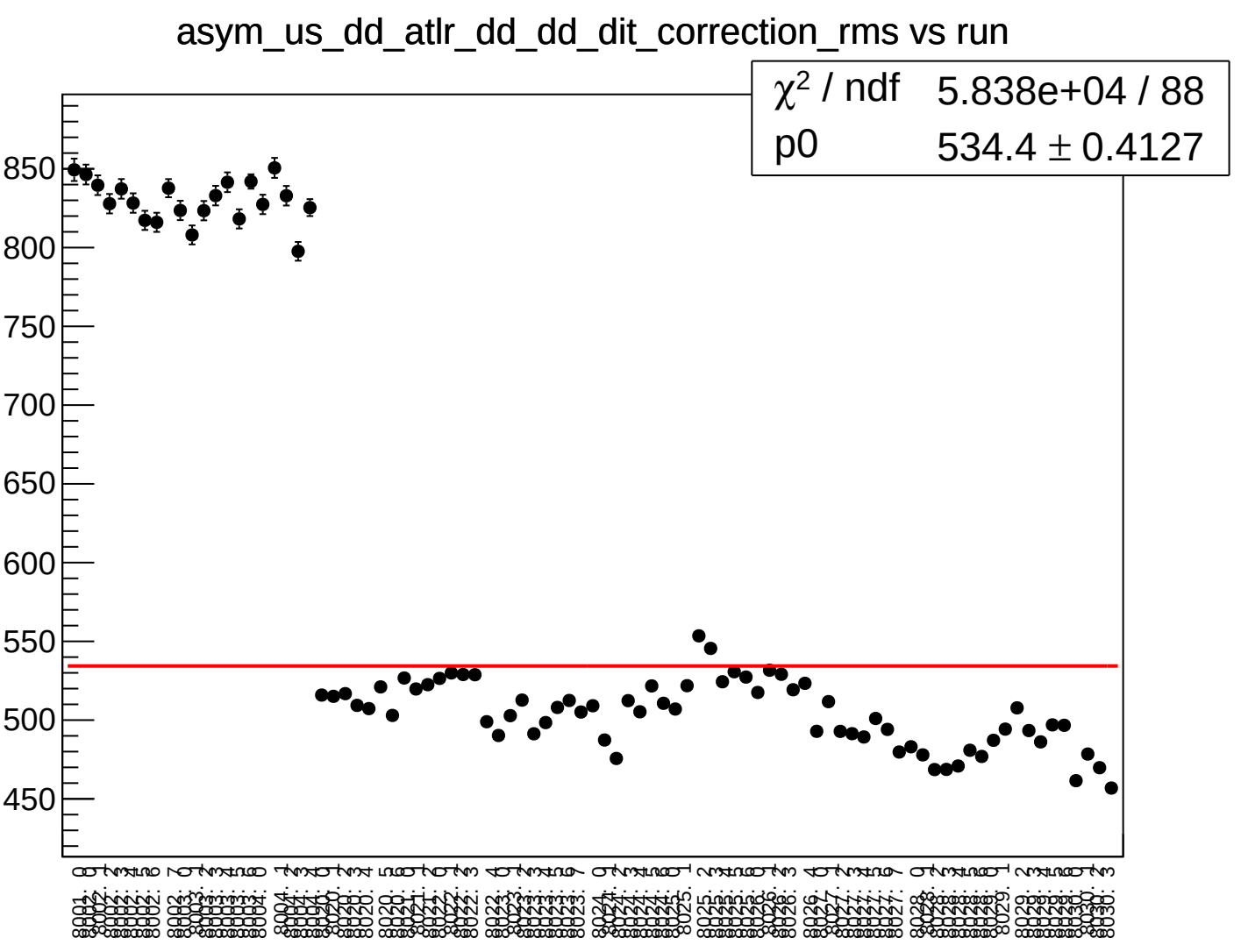

dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 75.32 / 88
p0 −59.48 ± 1200
pull
Entries 89
Mean −115.3
Std Dev 0

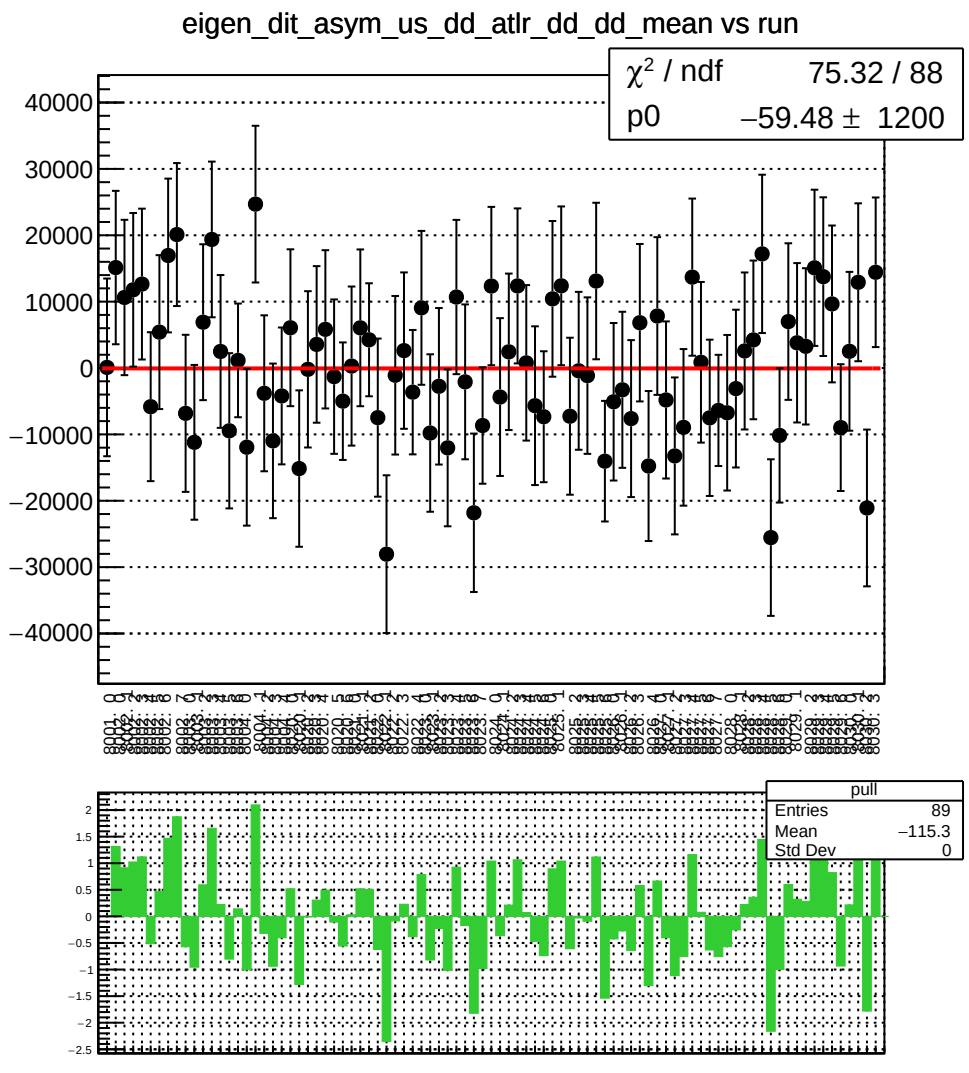

pull1D
Entries 89
Mean 0.01624
Std Dev 0.9198

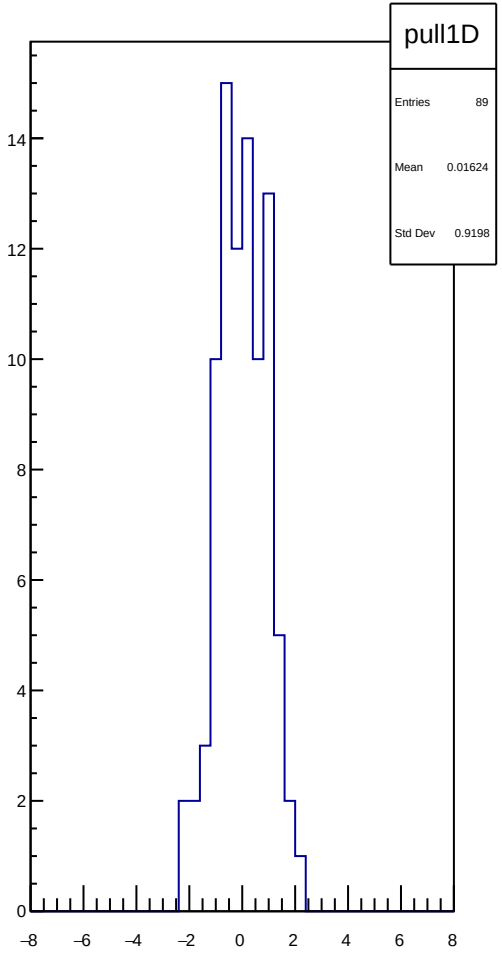

dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 245.1 / 88
p0 1118 ± 0.8488
1160
1140
1120
1100
1080
1060

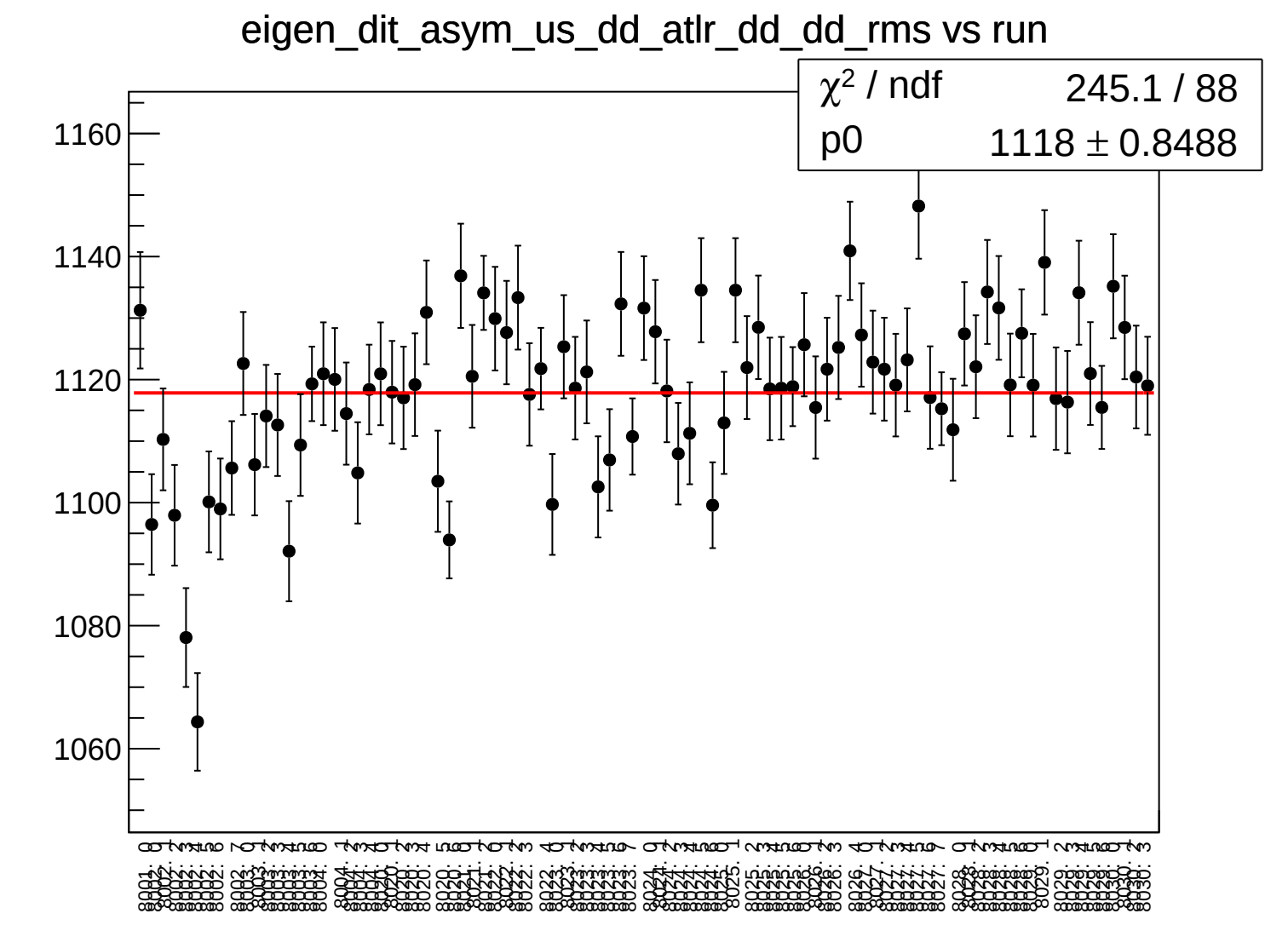

asym_us_dd_atlr_dd_dd_dit_correction_mean vs run
χ² / ndf 79.78 / 88
p0 231.5 ± 583.7
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 262
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

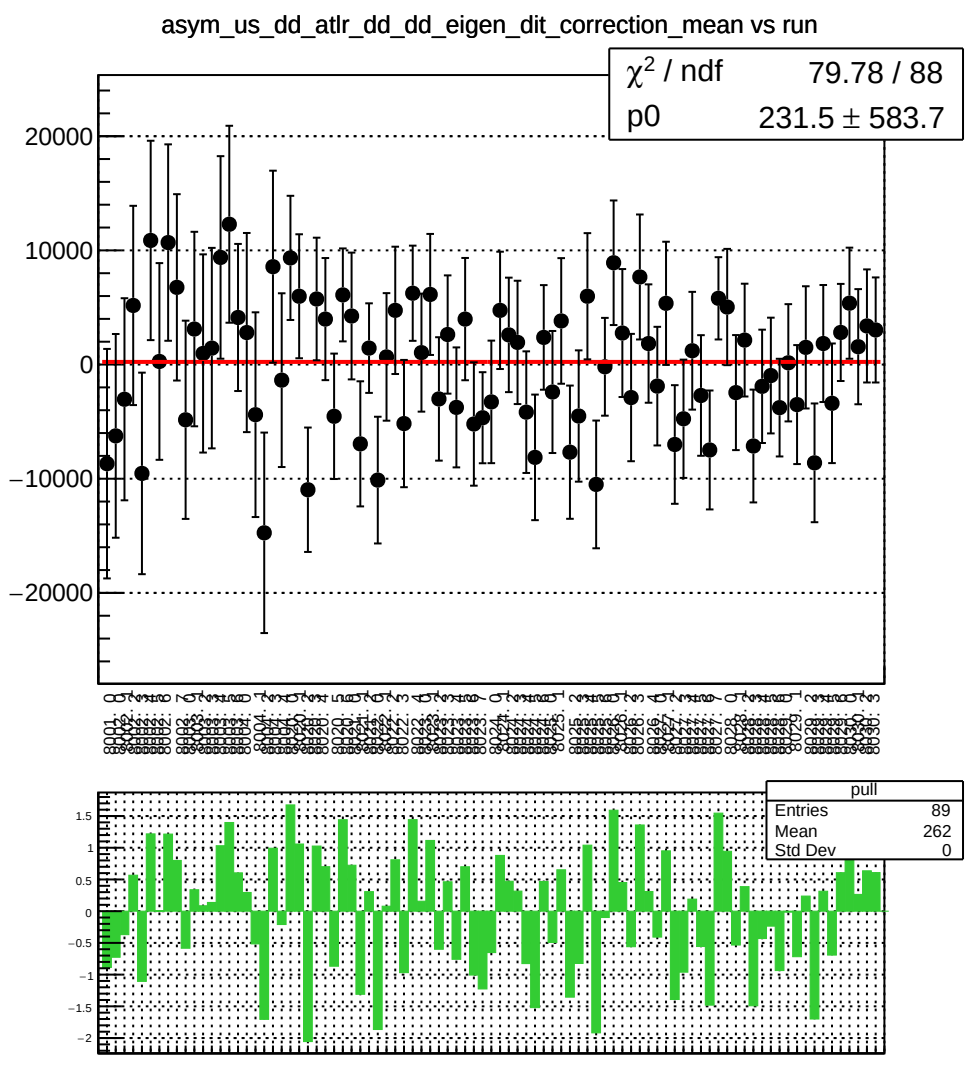

pull1D
Entries 89
Mean −0.01004
Std Dev 0.9467
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

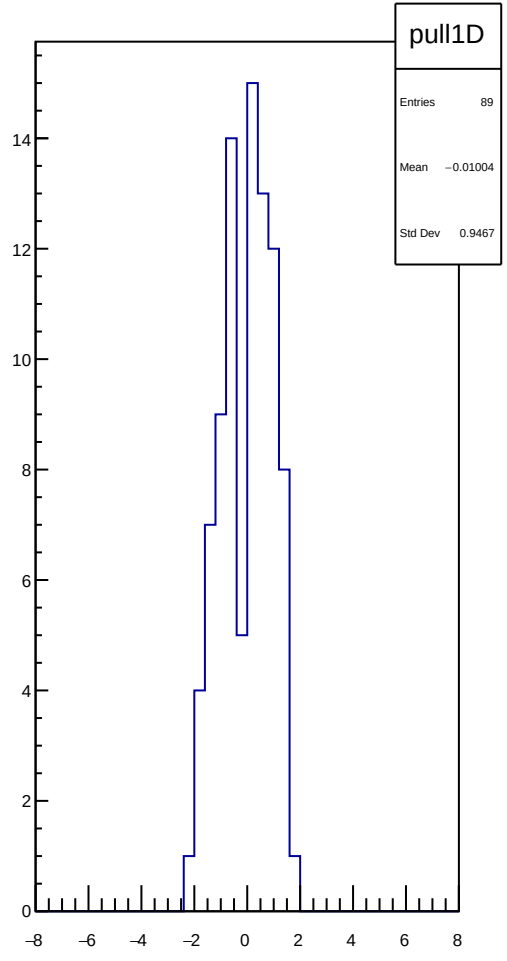

asym_us_dd_atlr_dd_dd_dit_correction_rms vs run
χ² / ndf 5.838e+04 / 88
p0 534.4 ± 0.4127
850
800
750
700
650
600
550
500
450

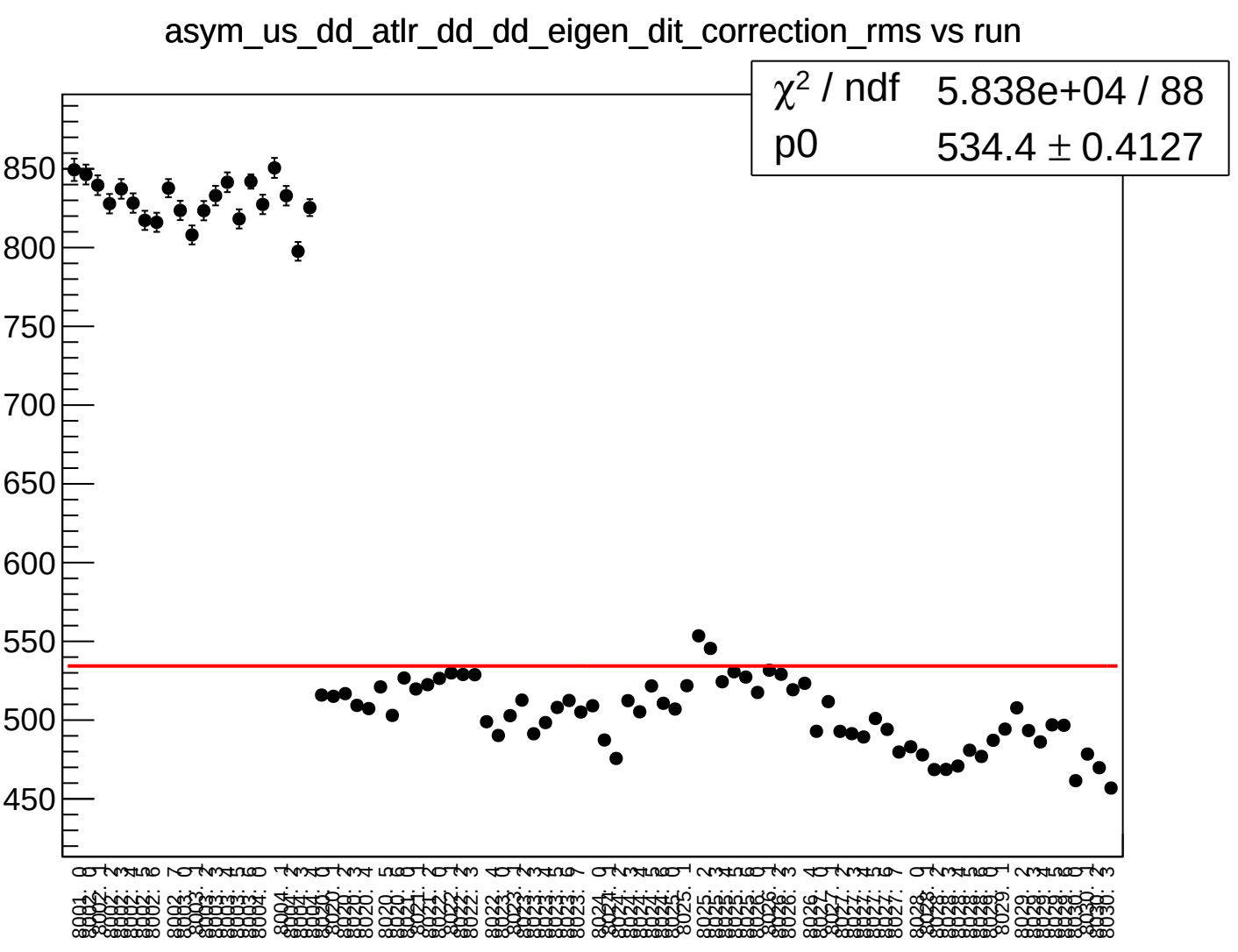

eigen_dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 75.32 / 88
p0 −59.48 ± 1200
pull
Entries 89
Mean −115.3
Std Dev 0

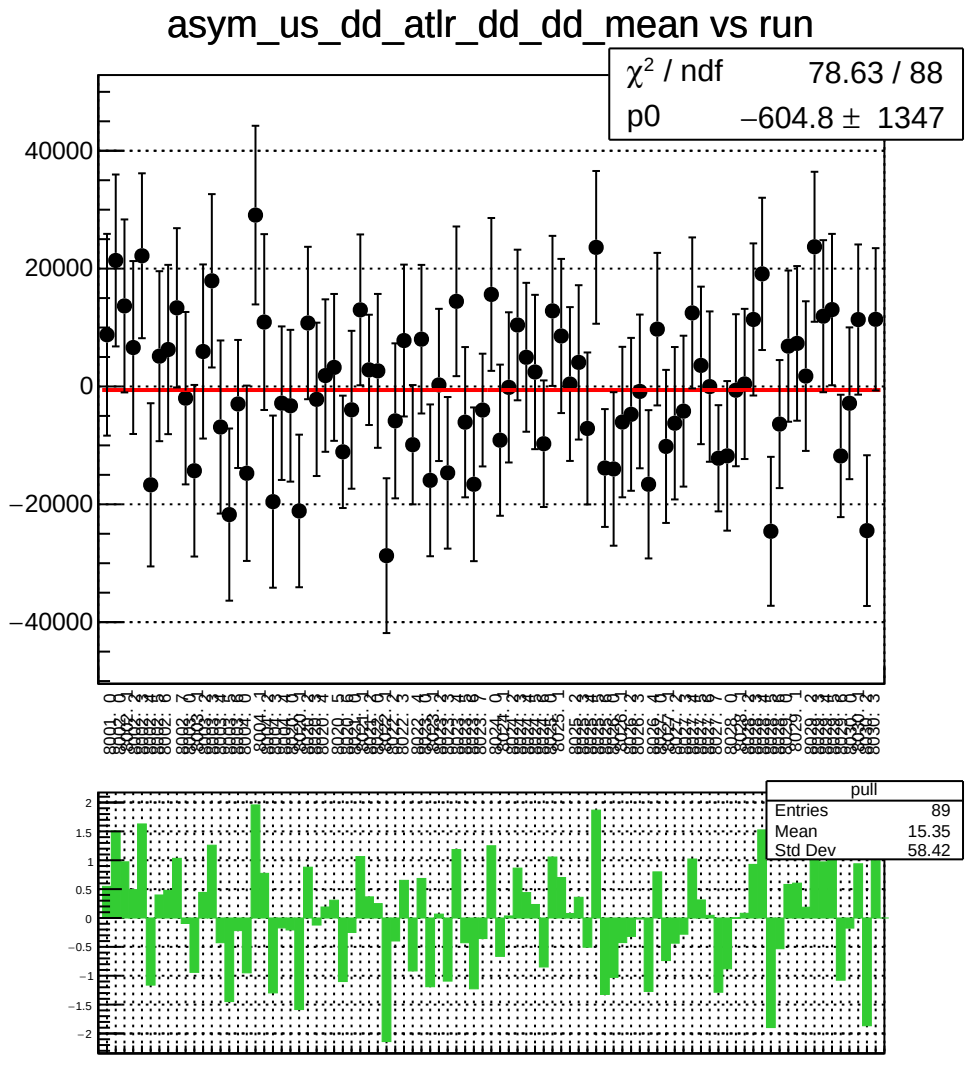

pull1D
Entries 89
Mean 0.01624
Std Dev 0.9198

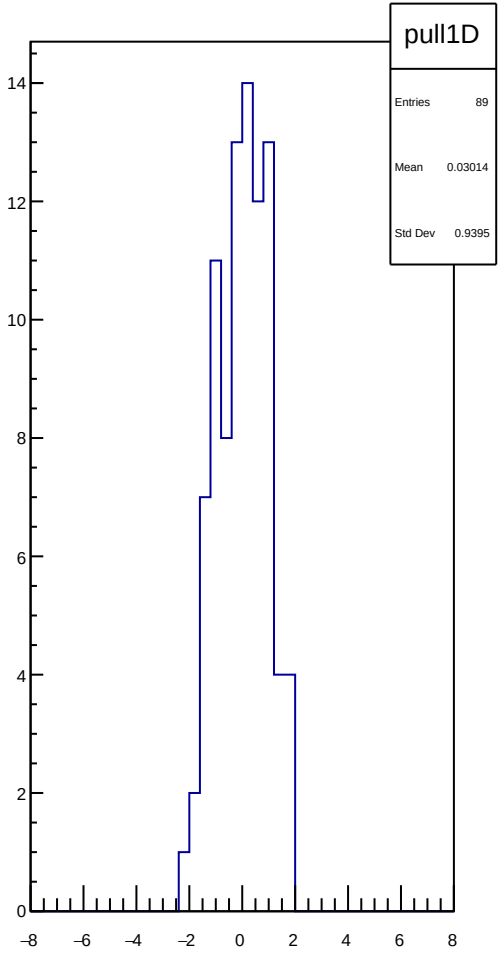

eigen_dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 245.1 / 88
p0 1118 ± 0.8488
1160
1140
1120
1100
1080
1060

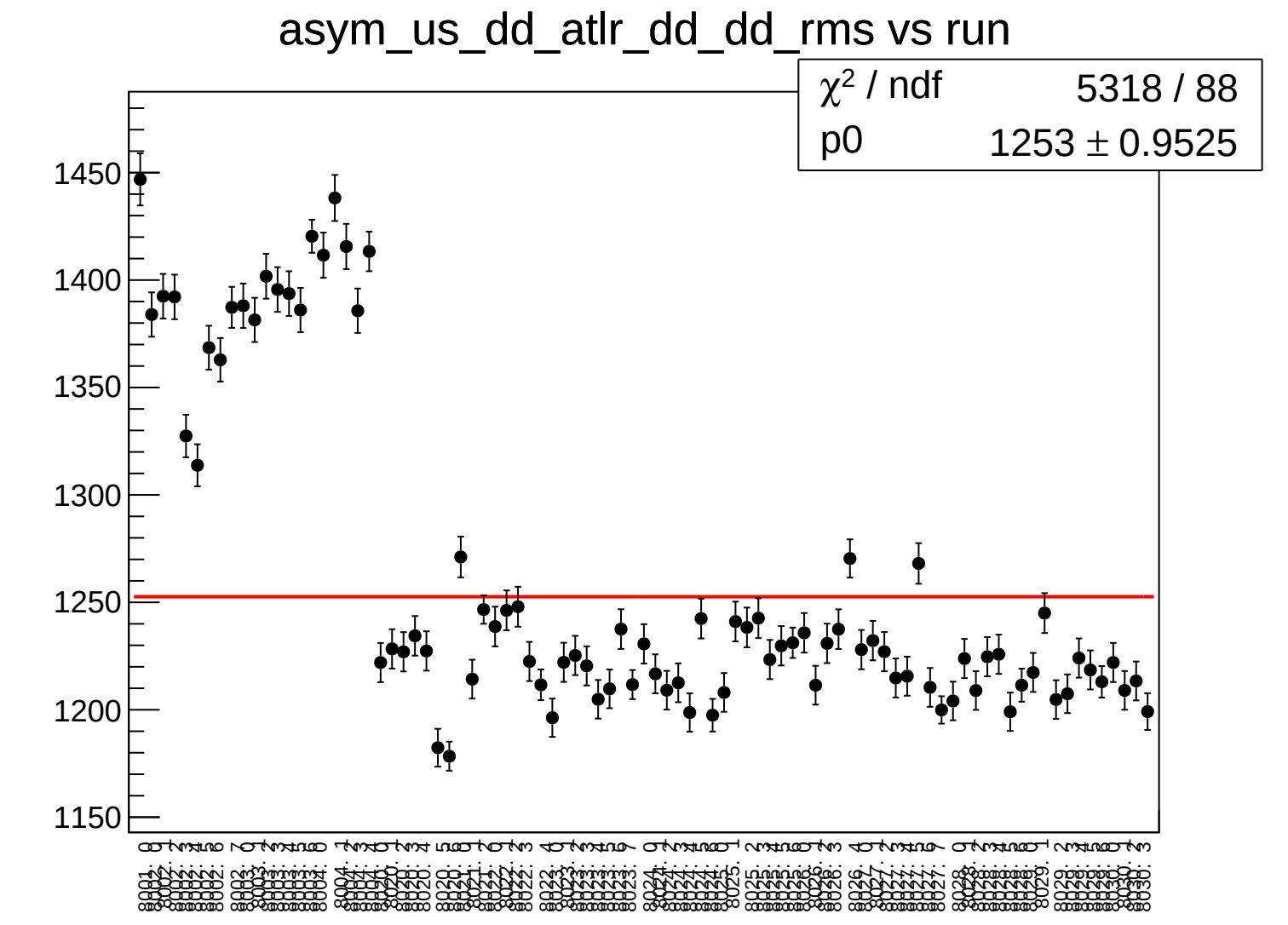

asym_us_dd_atlr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 79.78 / 88
p0 231.5 ± 583.7
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 262
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

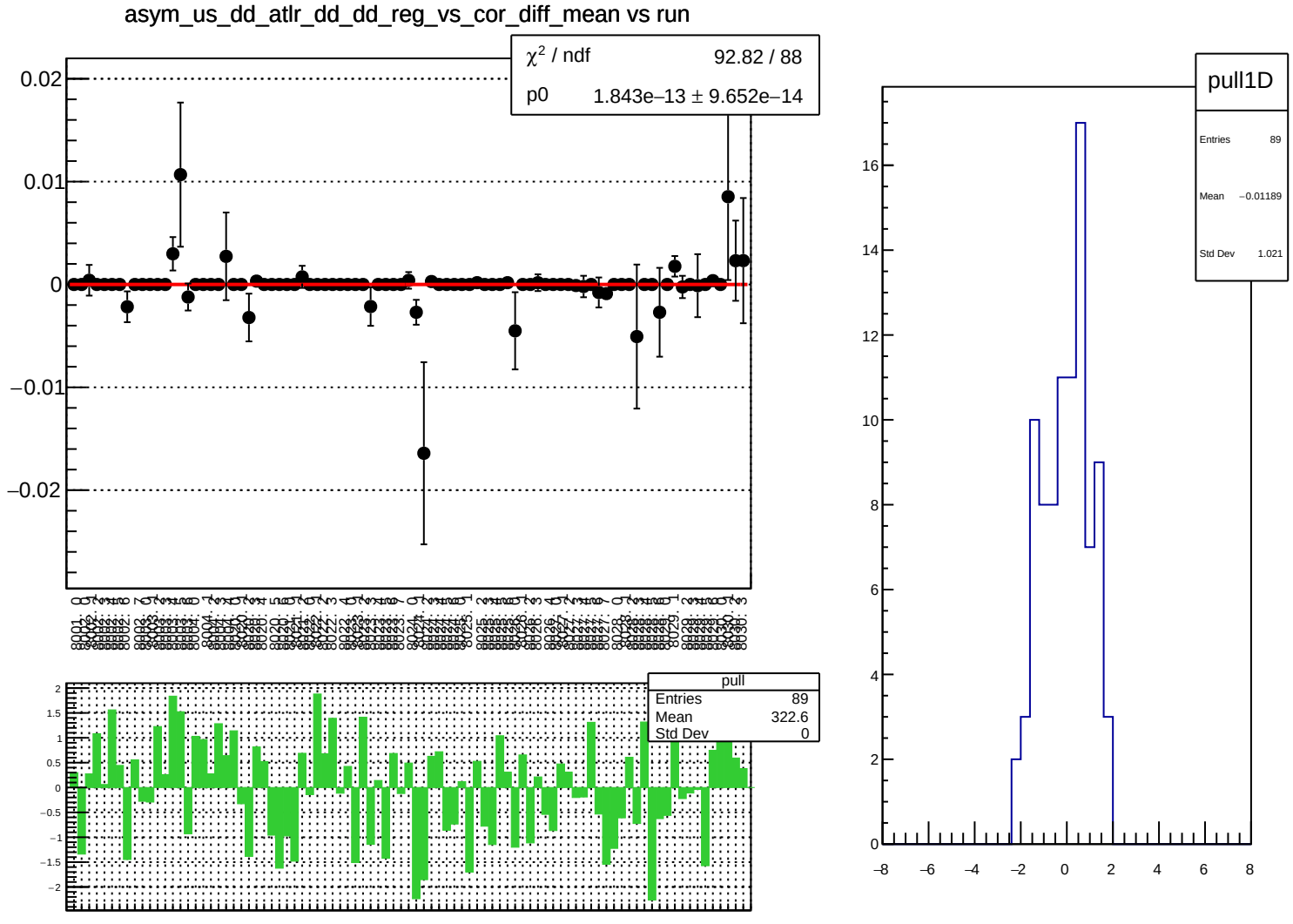

pull1D
Entries 89
Mean −0.01004
Std Dev 0.9467
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

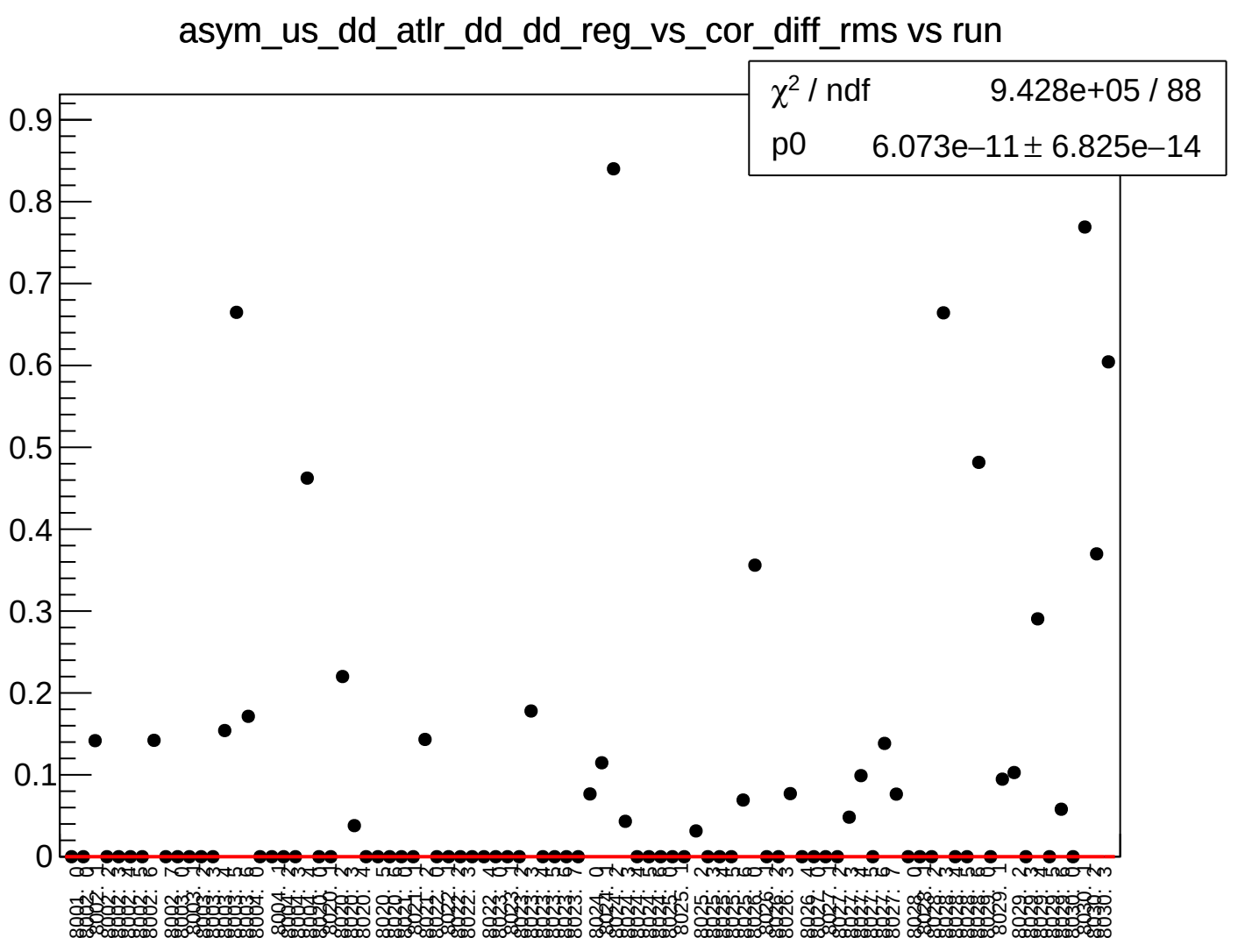

asym_us_dd_atlr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 5.838e+04 / 88
p0 534.4 ± 0.4127
850
800
750
700
650
600
550
500
450

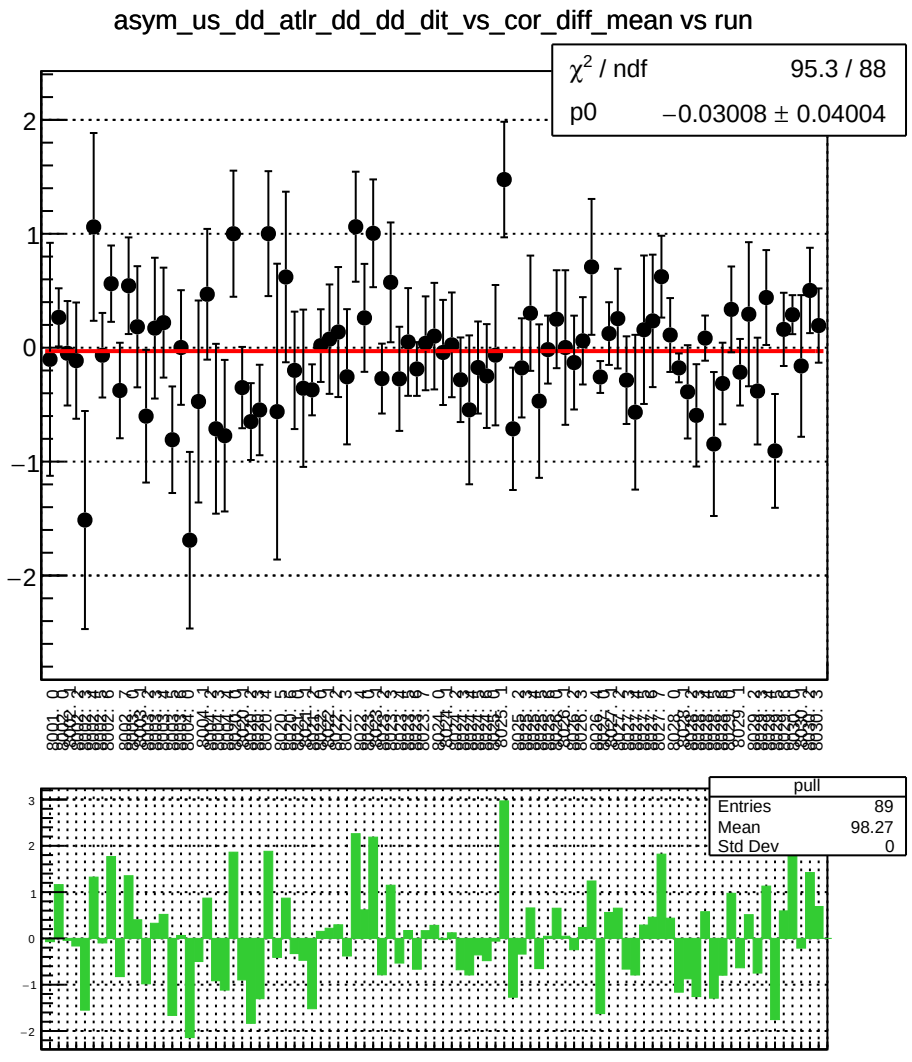

asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 78.63 / 88
p0 −604.8 ± 1347
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 15.35
Std Dev 58.42
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

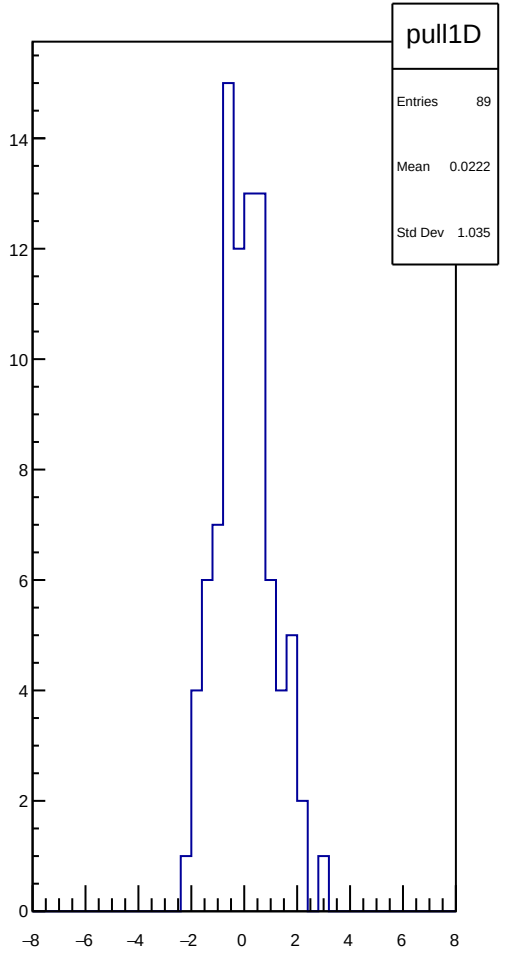

pull1D
Entries 89
Mean 0.03014
Std Dev 0.9395
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

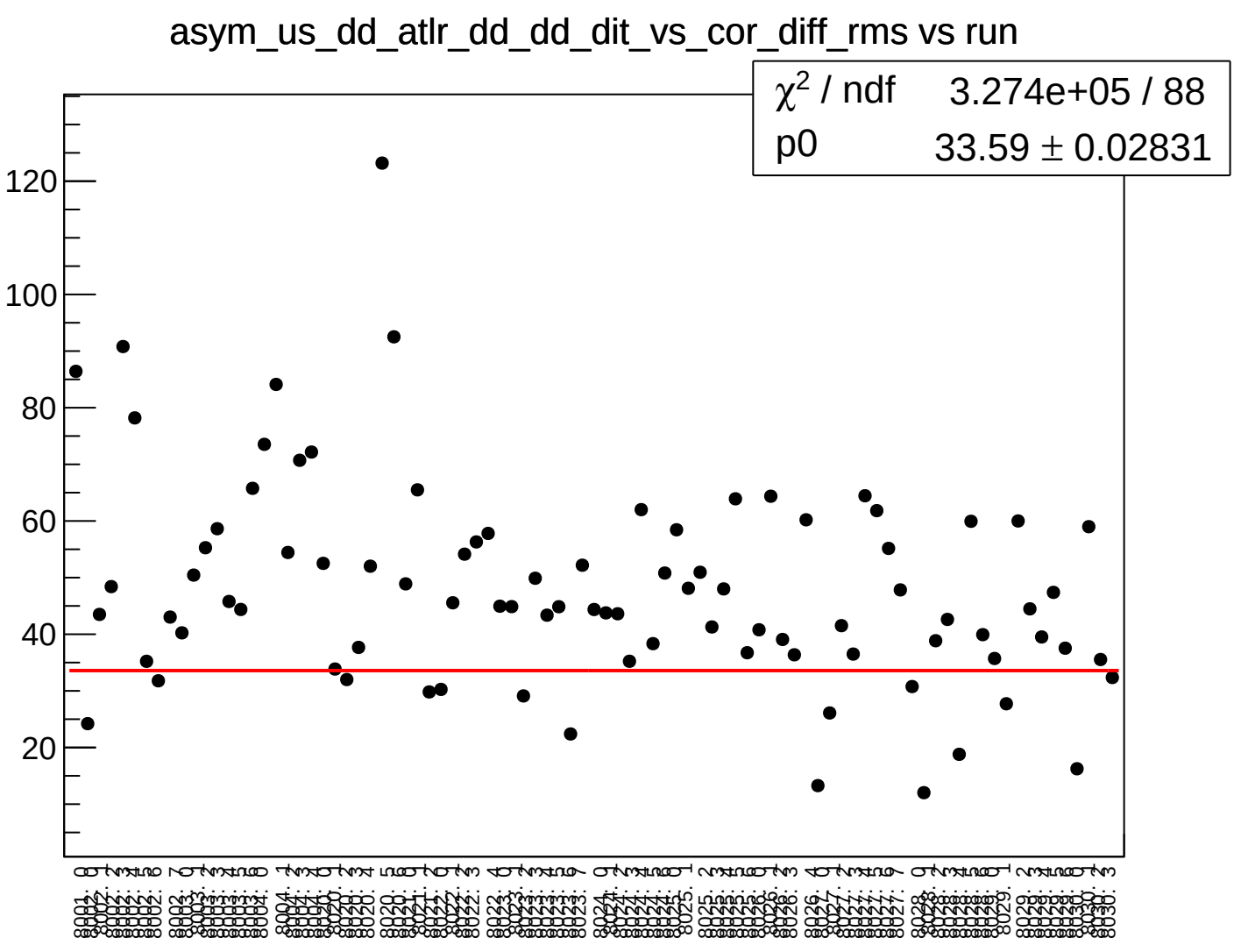

asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 5318 / 88
p0 1253 ± 0.9525
1450
1400
1350
1300
1250
1200
1150

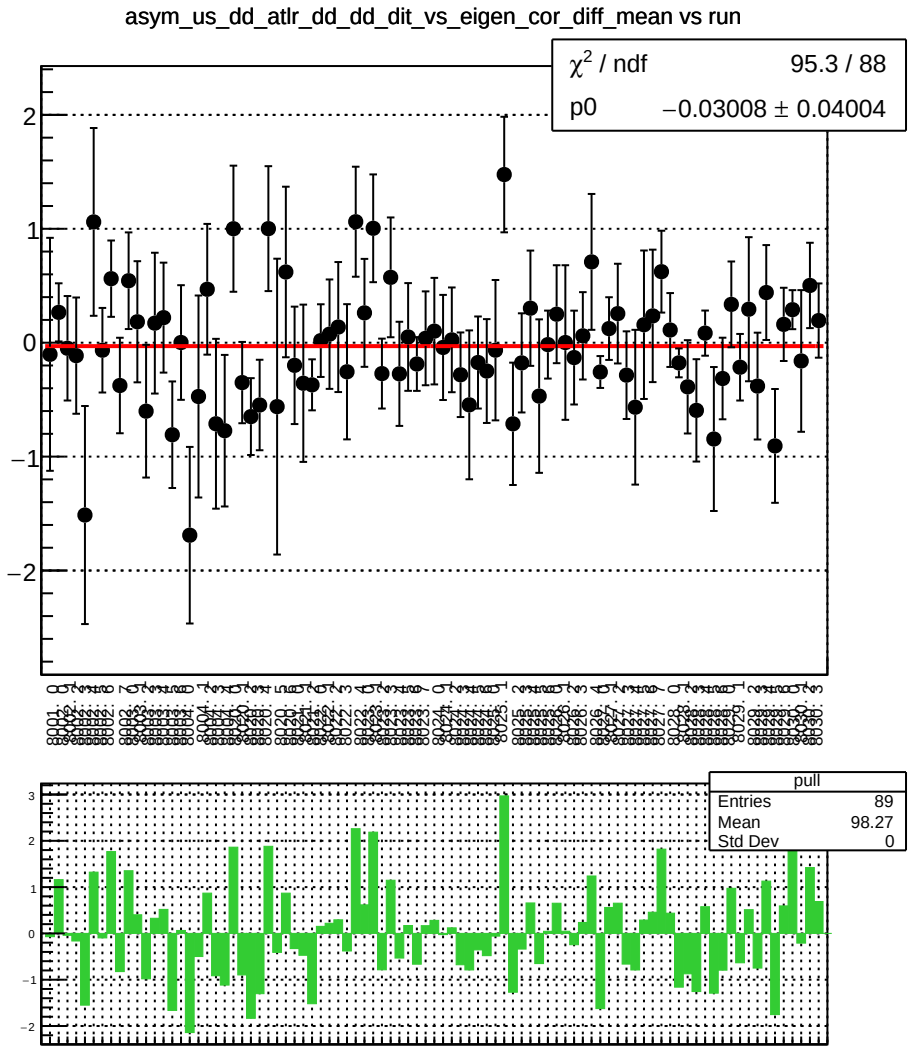

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 92.82 / 88
p0 1.843e−13 ± 9.652e−14
0.02
0.01
0
−0.01
−0.02
pull
Entries 89
Mean 322.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean −0.01189
Std Dev 1.021
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

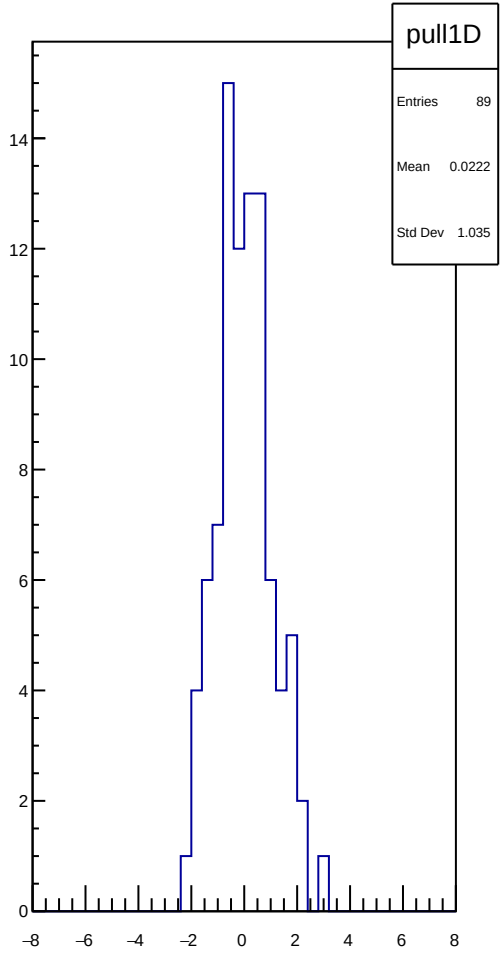

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.428e+05 / 88
p0 6.073e−11 ± 6.825e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

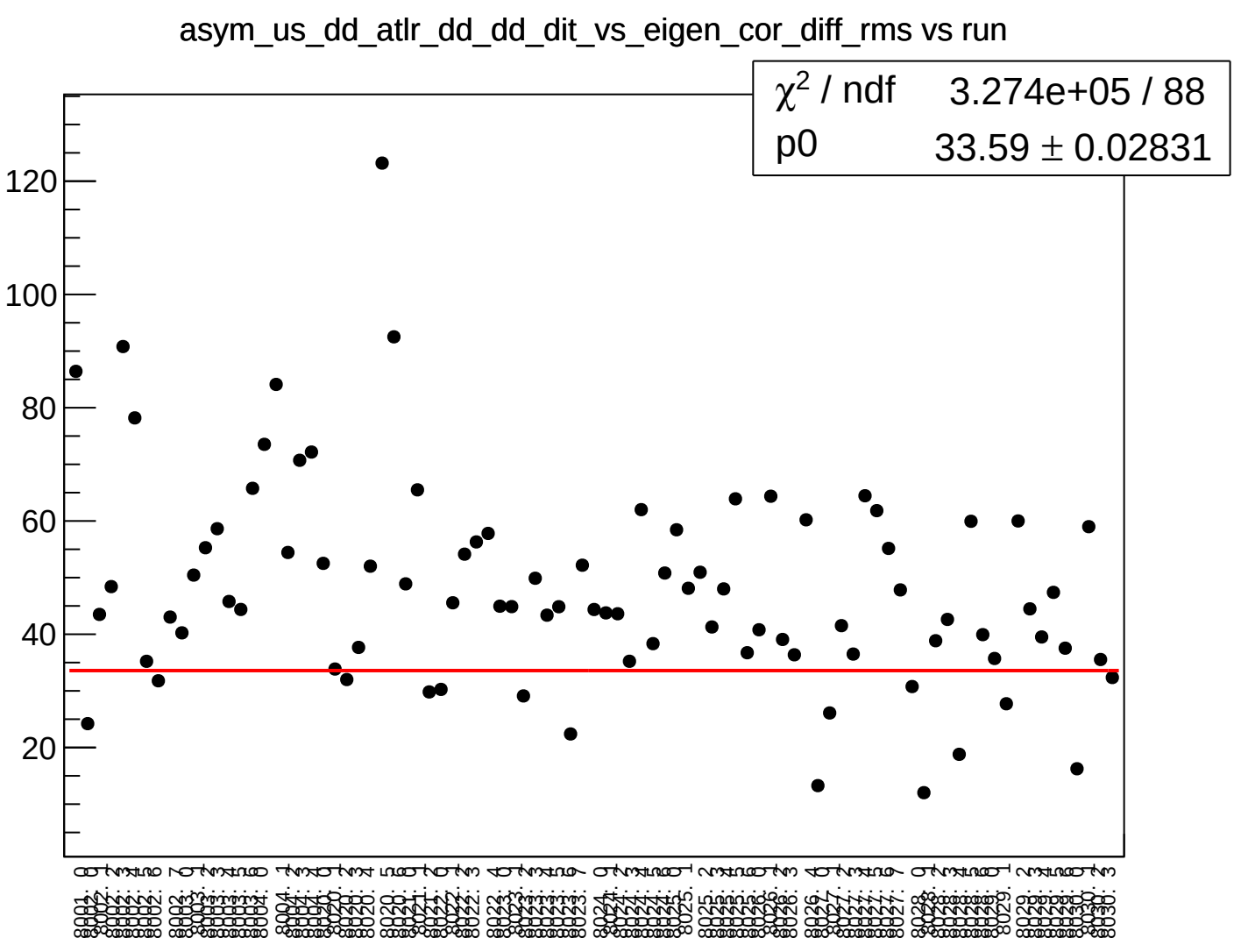

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 95.3 / 88
p0 −0.03008 ± 0.04004
pull
Entries 89
Mean 98.27
Std Dev 0

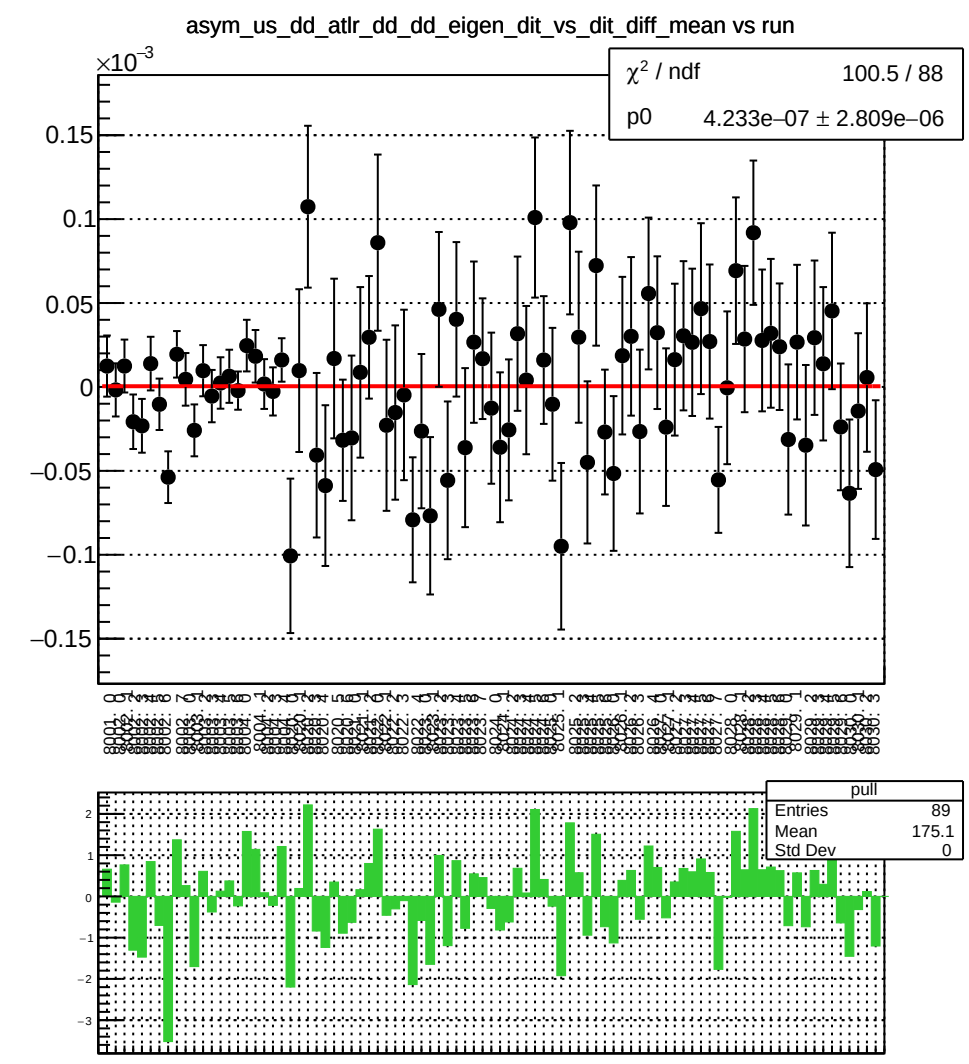

pull1D
Entries 89
Mean 0.0222
Std Dev 1.035

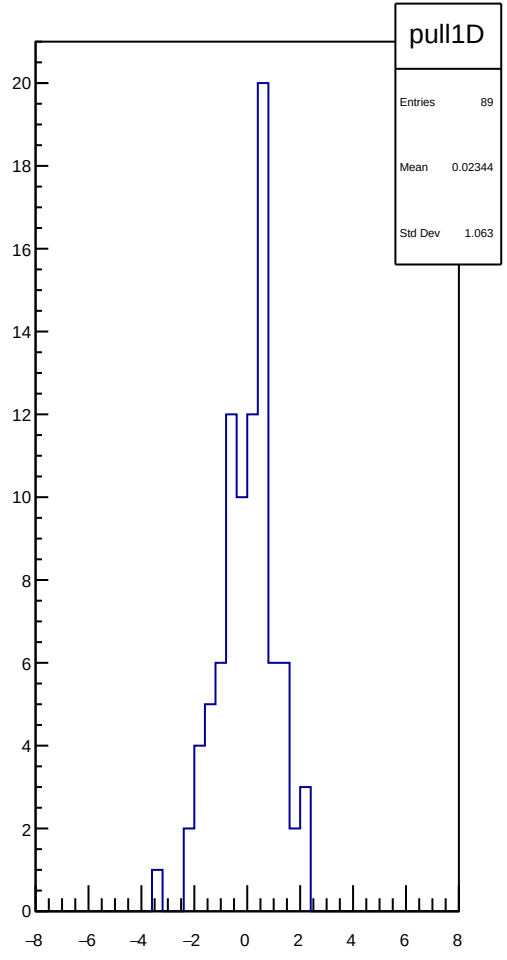

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.274e+05 / 88
p0 33.59 ± 0.02831
120
100
80
60
40
20

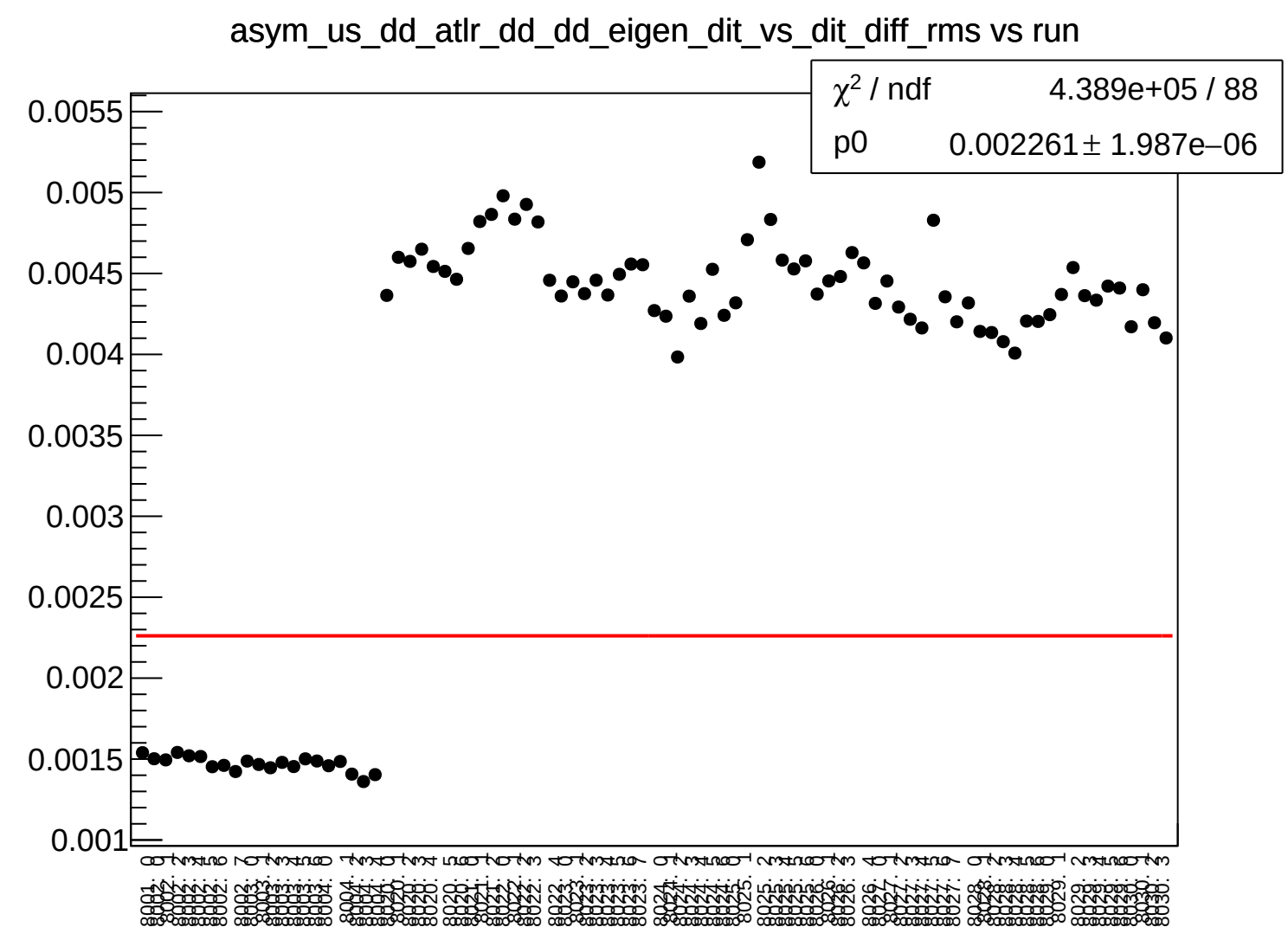

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.3 / 88
p0 −0.03008 ± 0.04004
pull
Entries 89
Mean 98.27
Std Dev 0

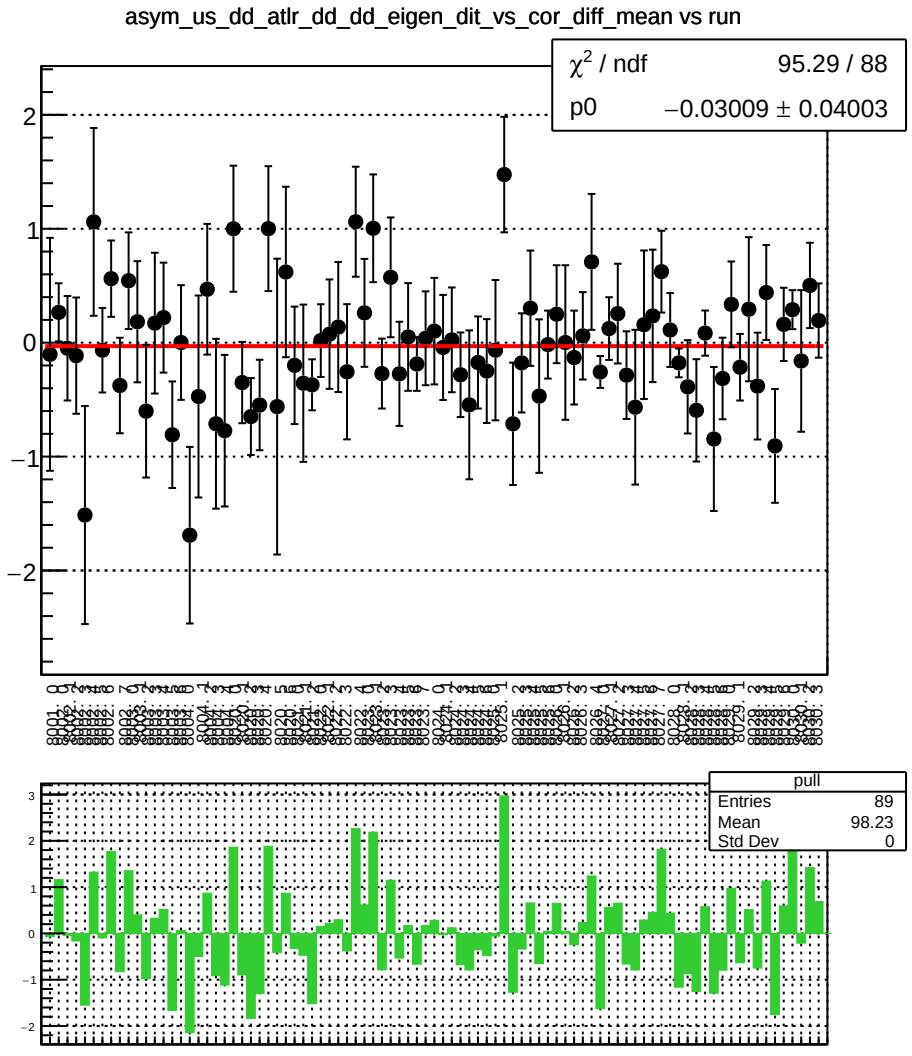

pull1D
Entries 89
Mean 0.0222
Std Dev 1.035

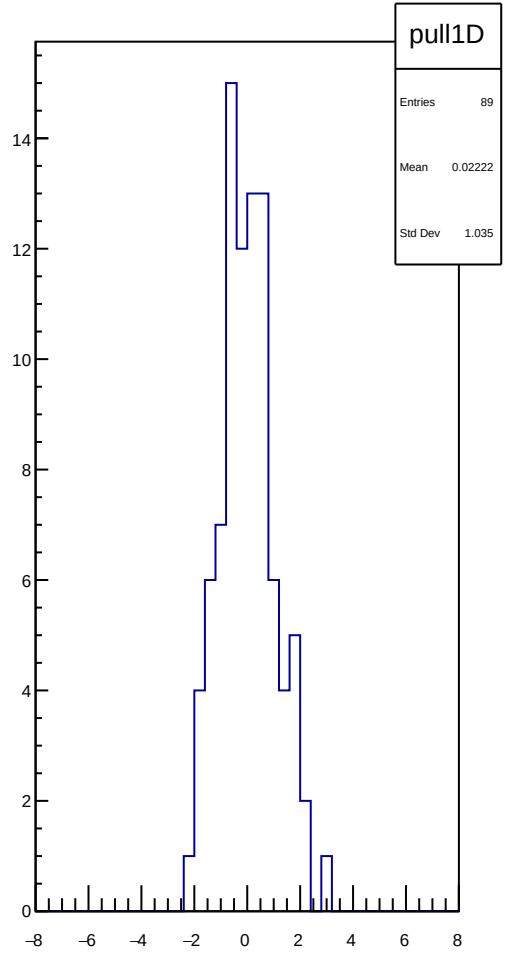

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.274e+05 / 88
p0 33.59 ± 0.02831
120
100
80
60
40
20

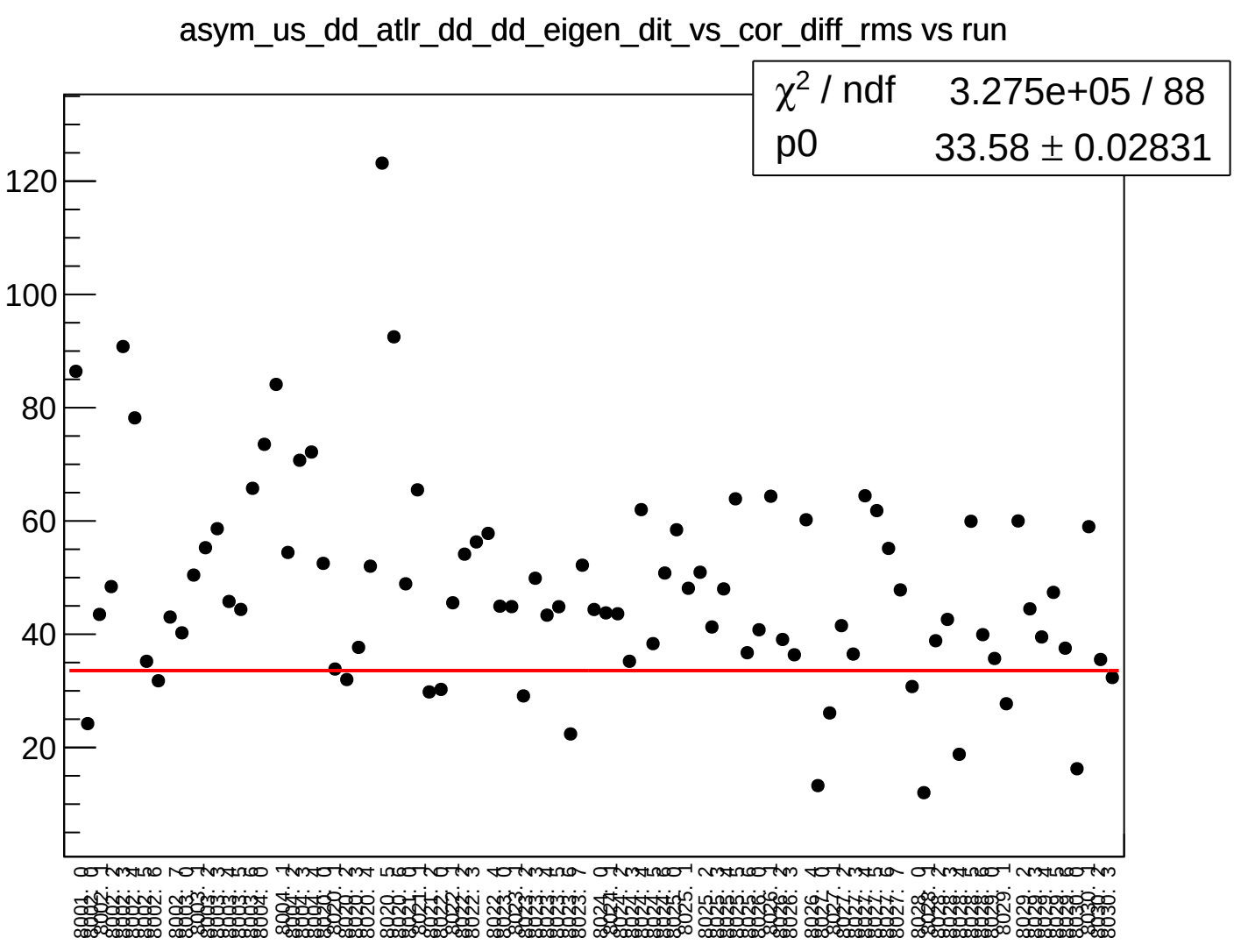

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 100.5 / 88
p0 4.233e−07 ± 2.809e−06
pull
Entries 89
Mean 175.1
Std Dev 0

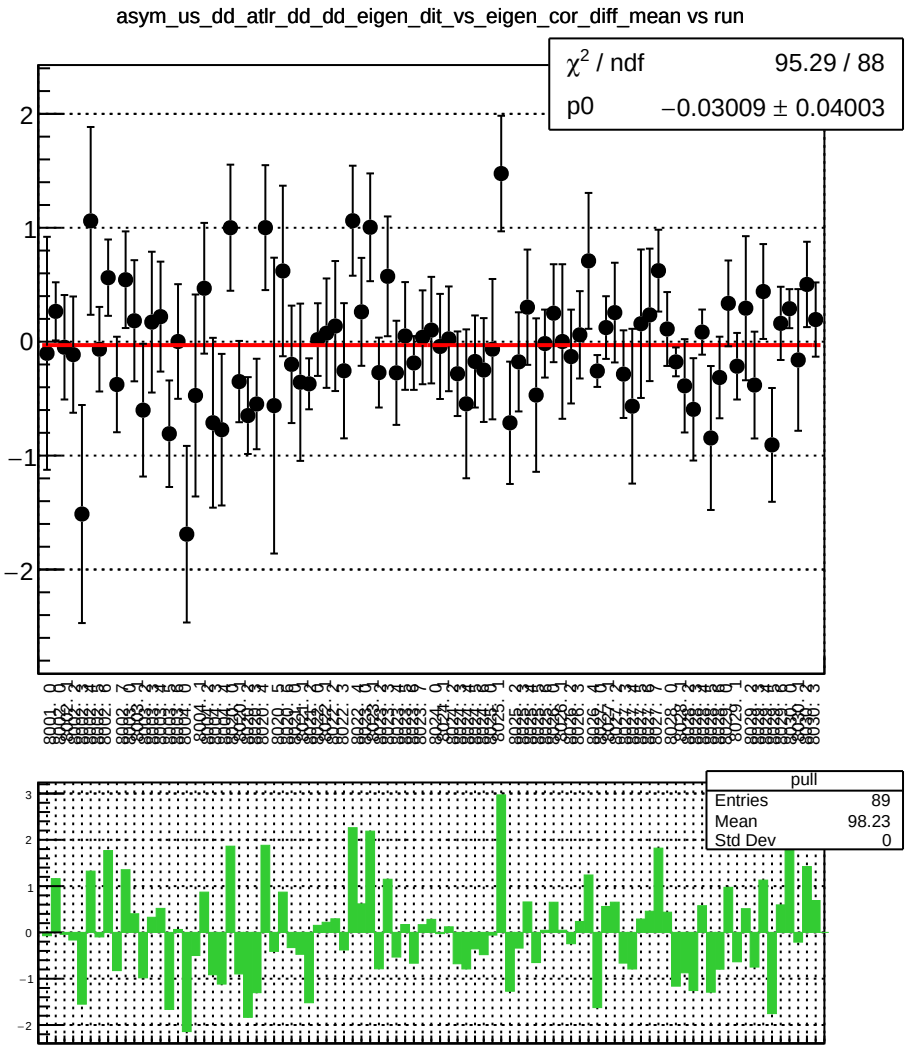

pull1D
Entries 89
Mean 0.02344
Std Dev 1.063

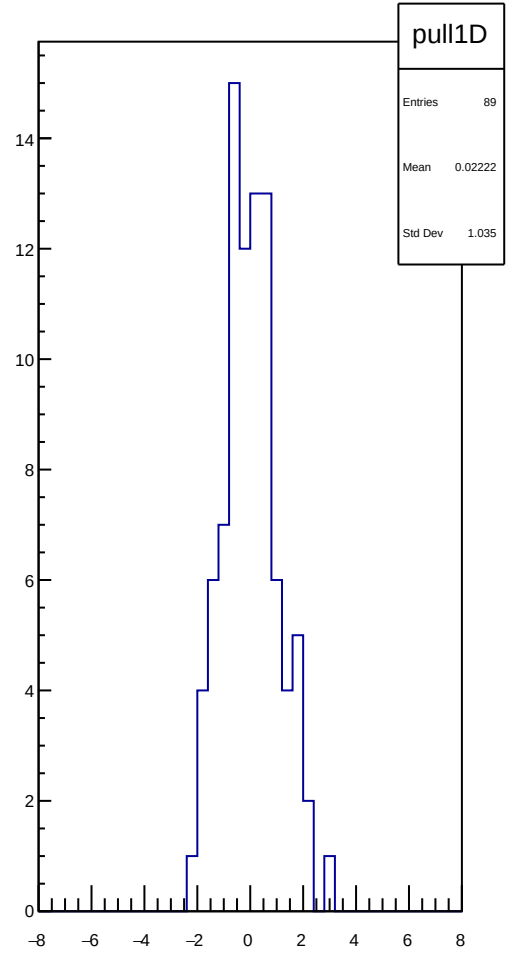

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.389e+05 / 88
p0 0.002261 ± 1.987e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001

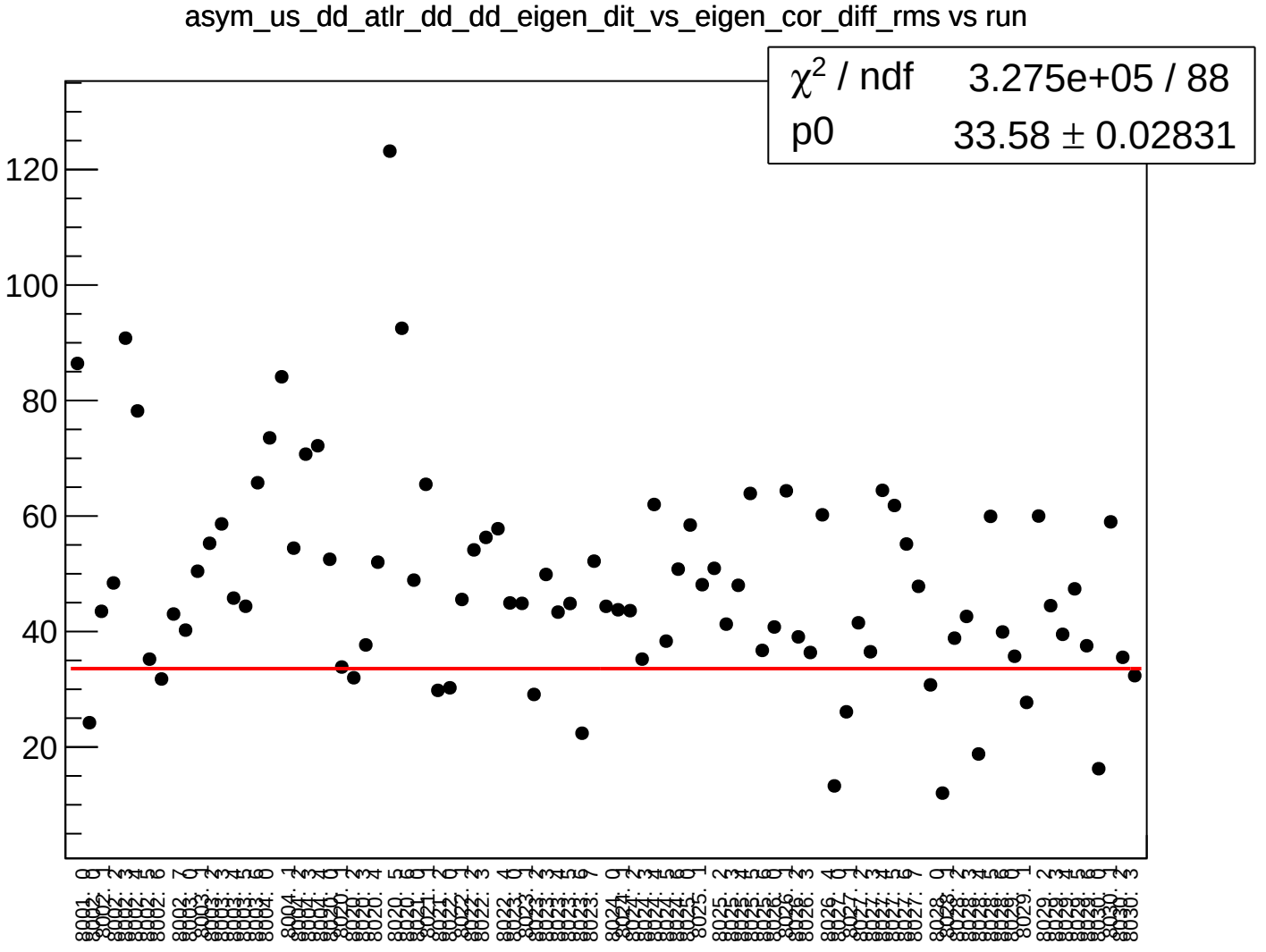

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.29 / 88
p0 −0.03009 ± 0.04003
pull
Entries 89
Mean 98.23
Std Dev 0

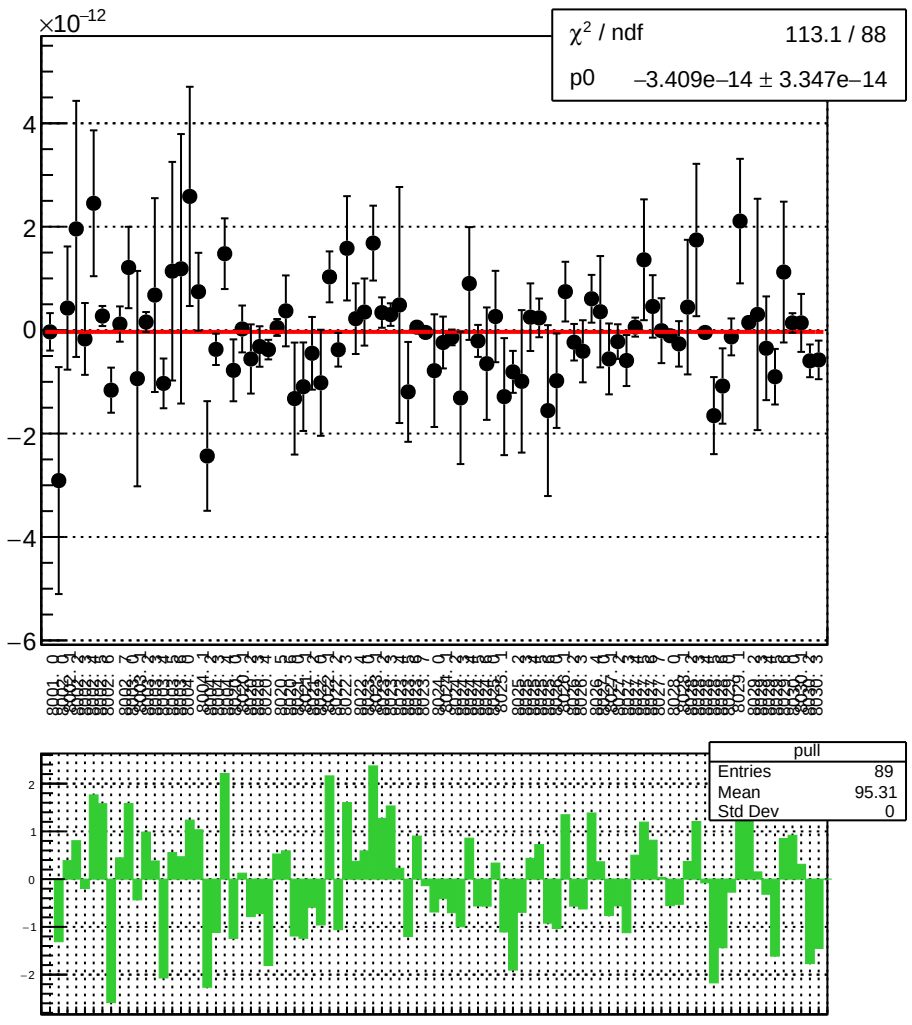

pull1D
Entries 89
Mean 0.02222
Std Dev 1.035

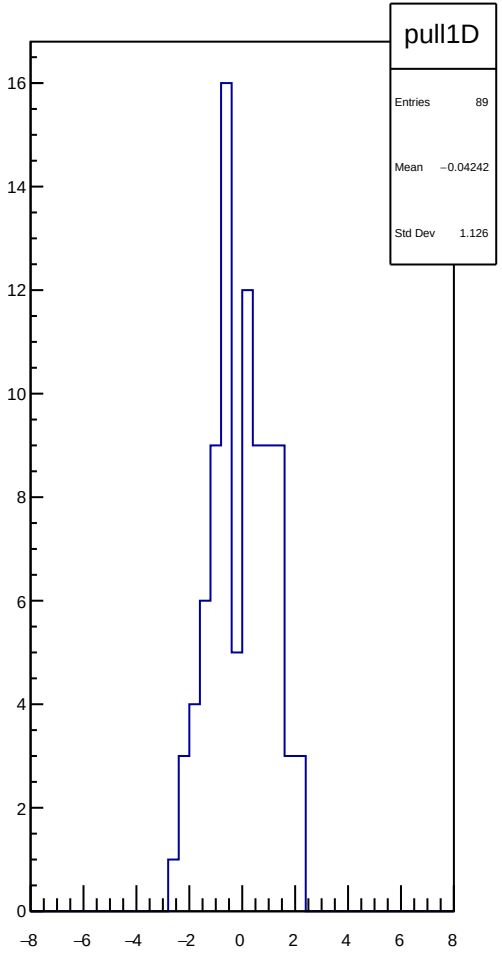

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.275e+05 / 88
p0 33.58 ± 0.02831
120
100
80
60
40
20

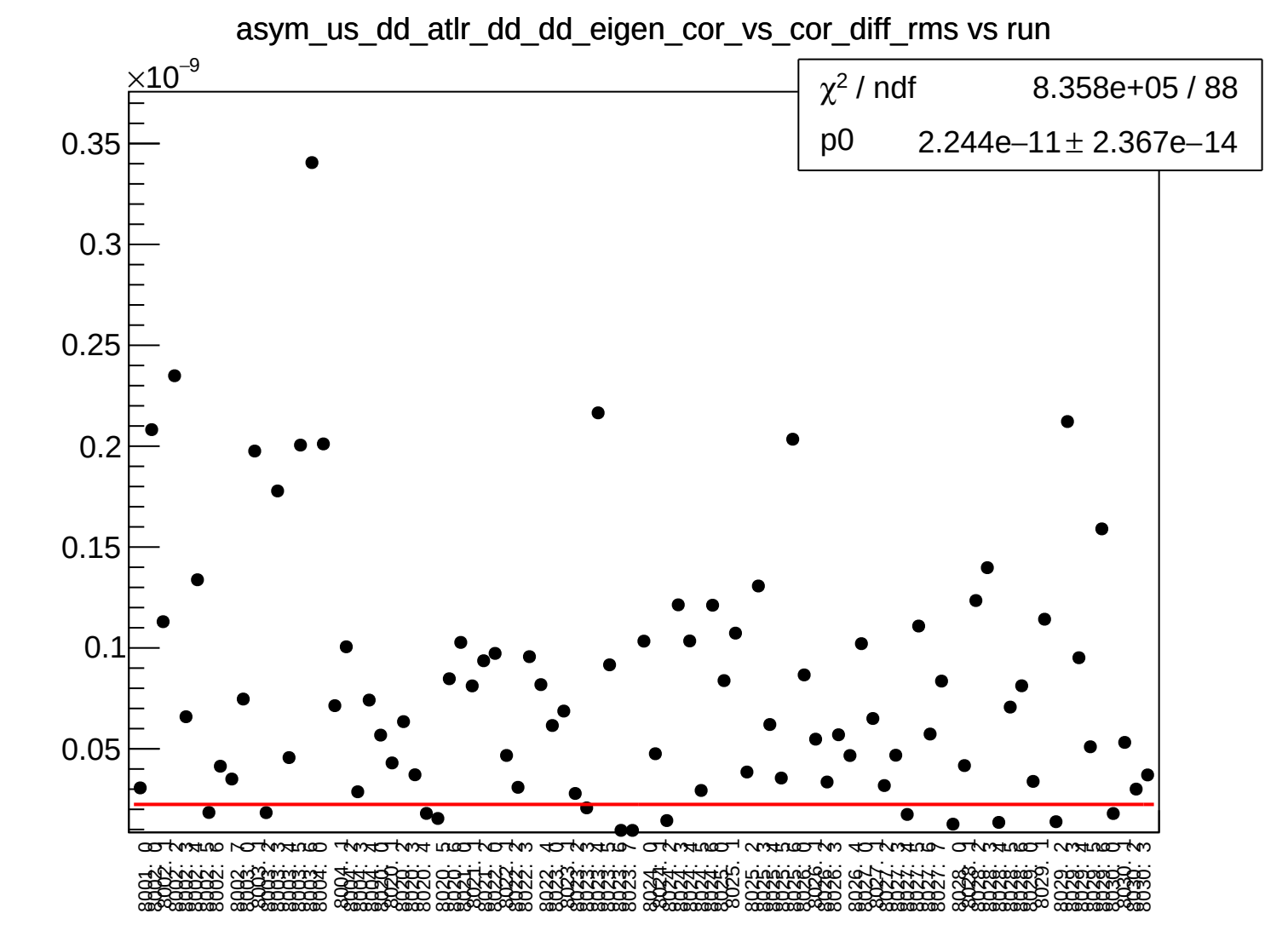

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.29 / 88
p0 −0.03009 ± 0.04003
pull
Entries 89
Mean 98.23
Std Dev 0

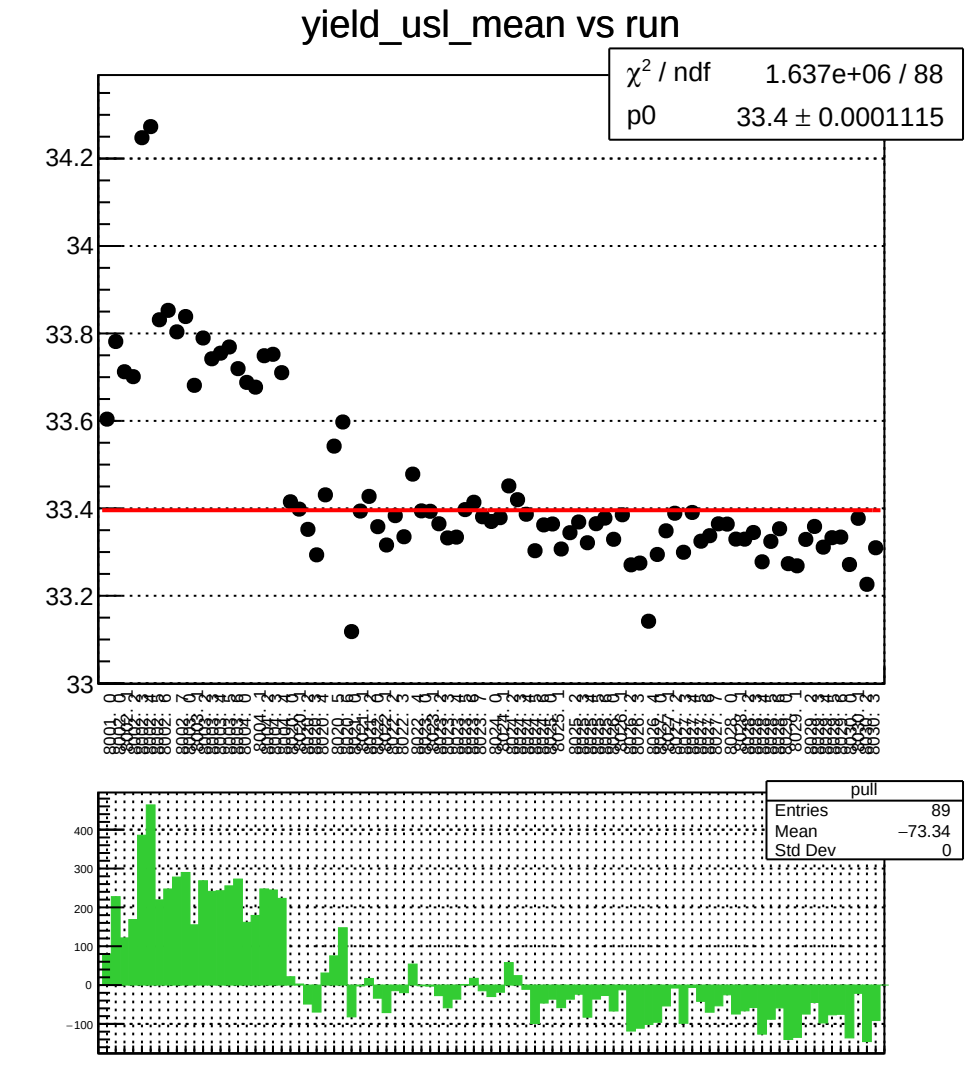

pull1D
Entries 89
Mean 0.02222
Std Dev 1.035

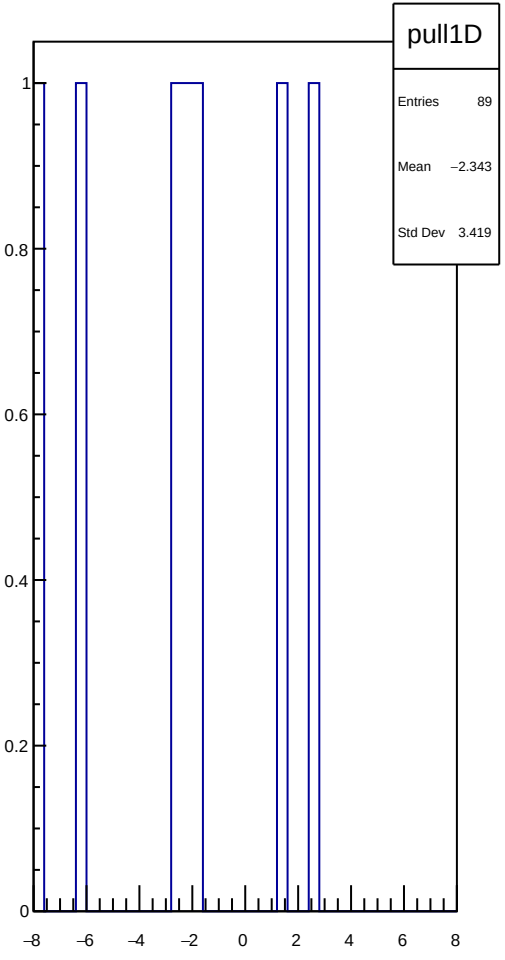

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.275e+05 / 88
p0 33.58 ± 0.02831
120
100
80
60
40
20

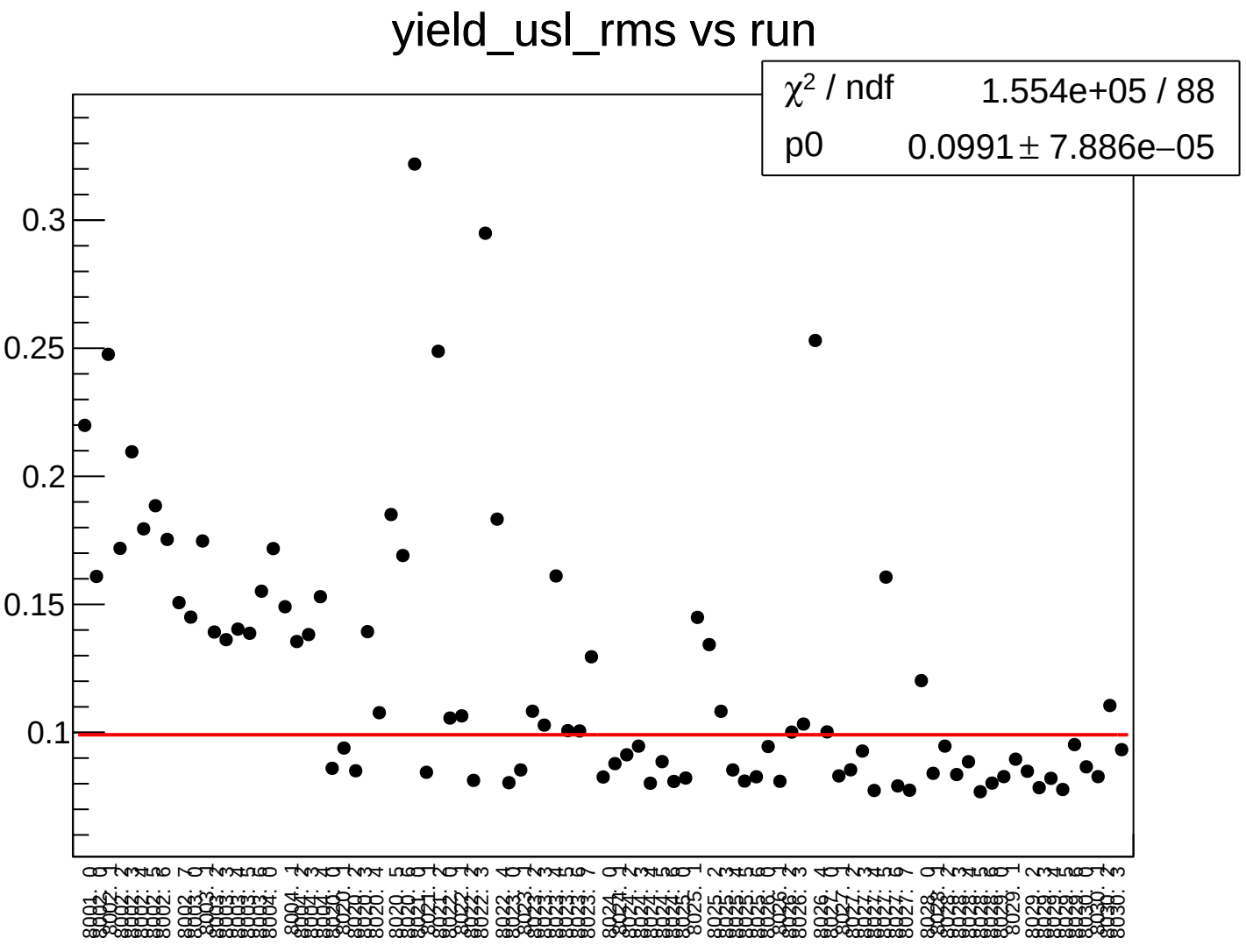

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 113.1 / 88
p0 −3.409e−14 ± 3.347e−14
pull
Entries 89
Mean 95.31
Std Dev 0

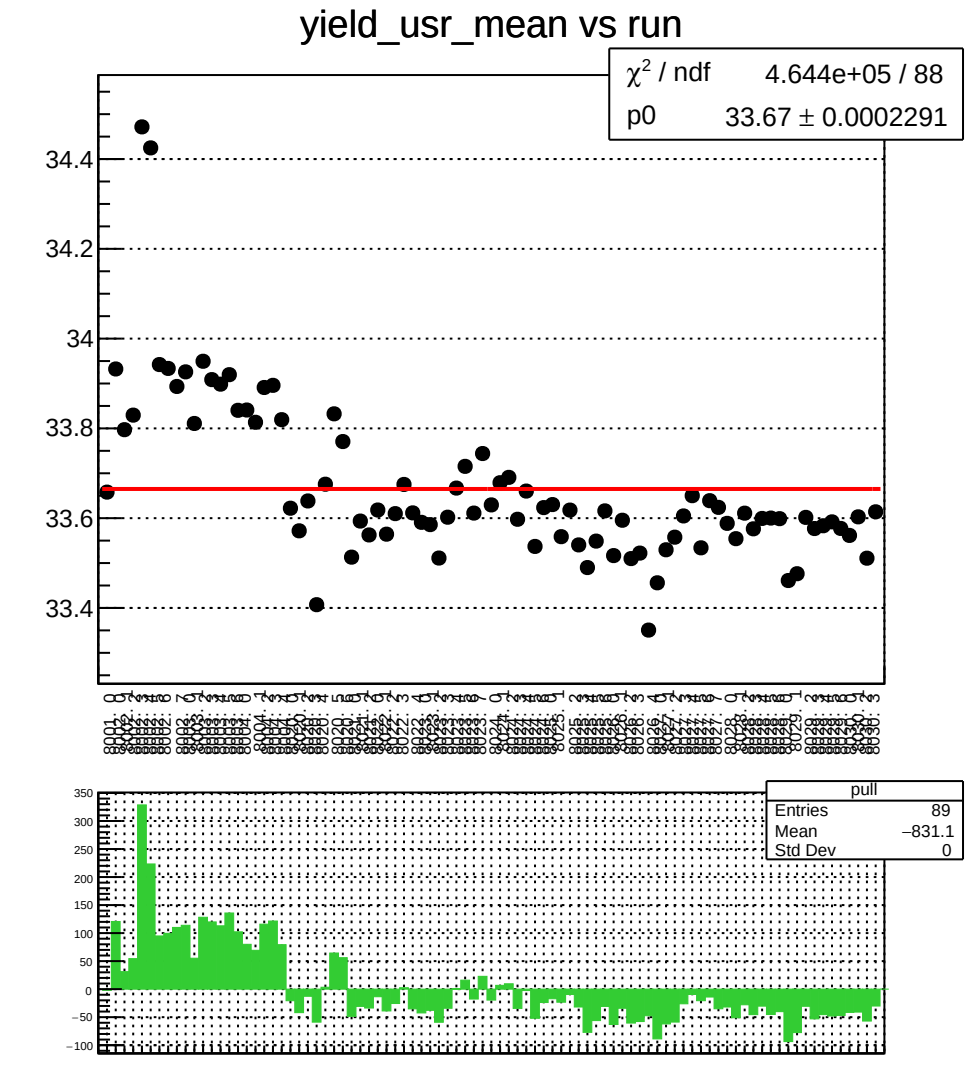

pull1D
Entries 89
Mean −0.04242
Std Dev 1.126

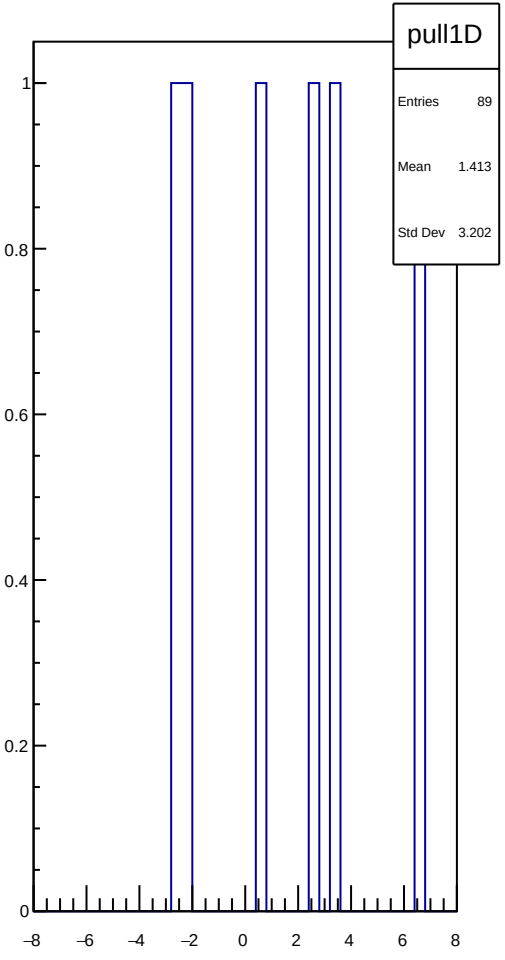

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.358e+05 / 88
p0 2.244e−11 ± 2.367e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

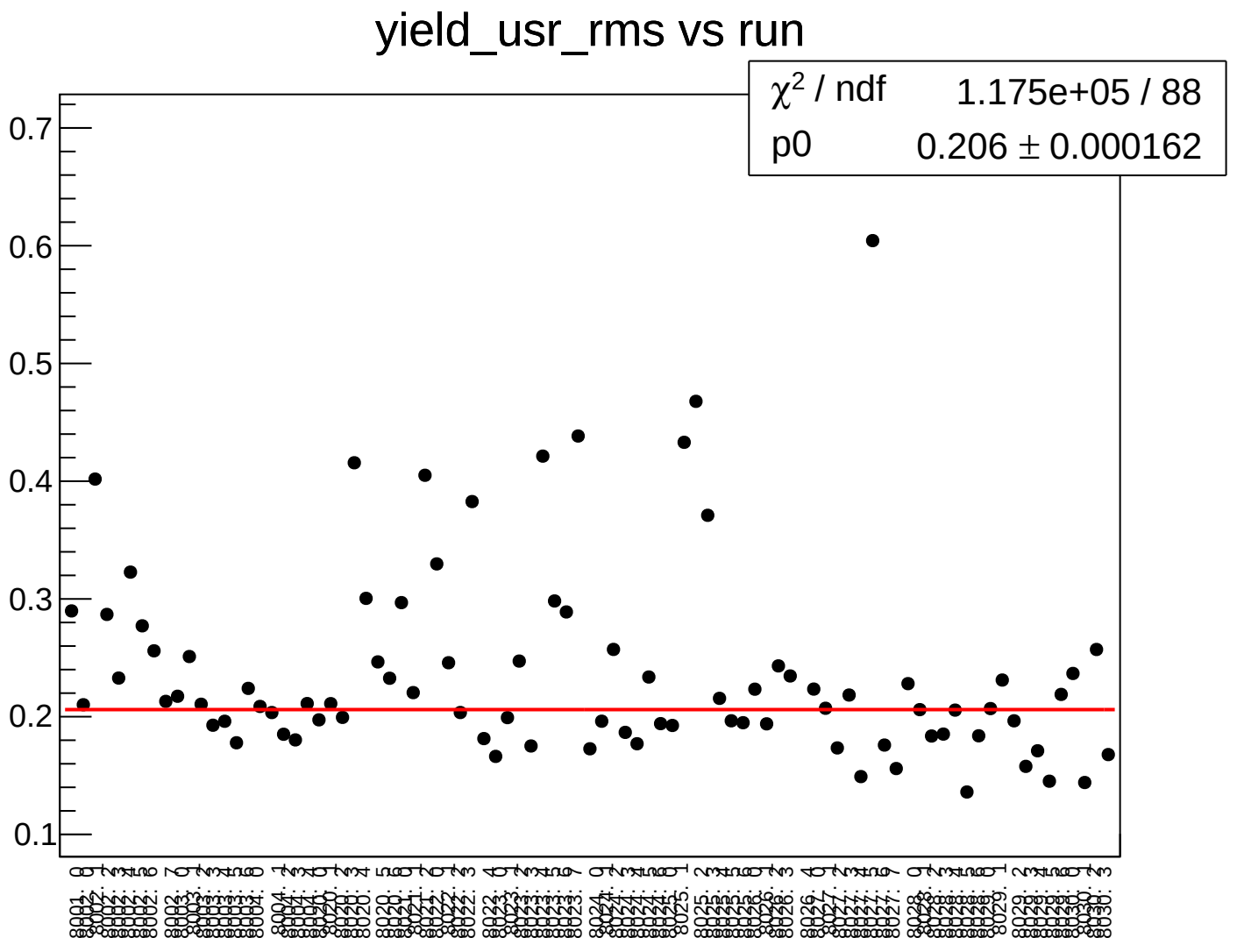

yield_usl_mean vs run
χ² / ndf 1.637e+06 / 88
p0 33.4 ± 0.0001115
34.2
34
33.8
33.6
33.4
33.2
33
pull
Entries 89
Mean −73.34
Std Dev 0
400
300
200
100
0
−100

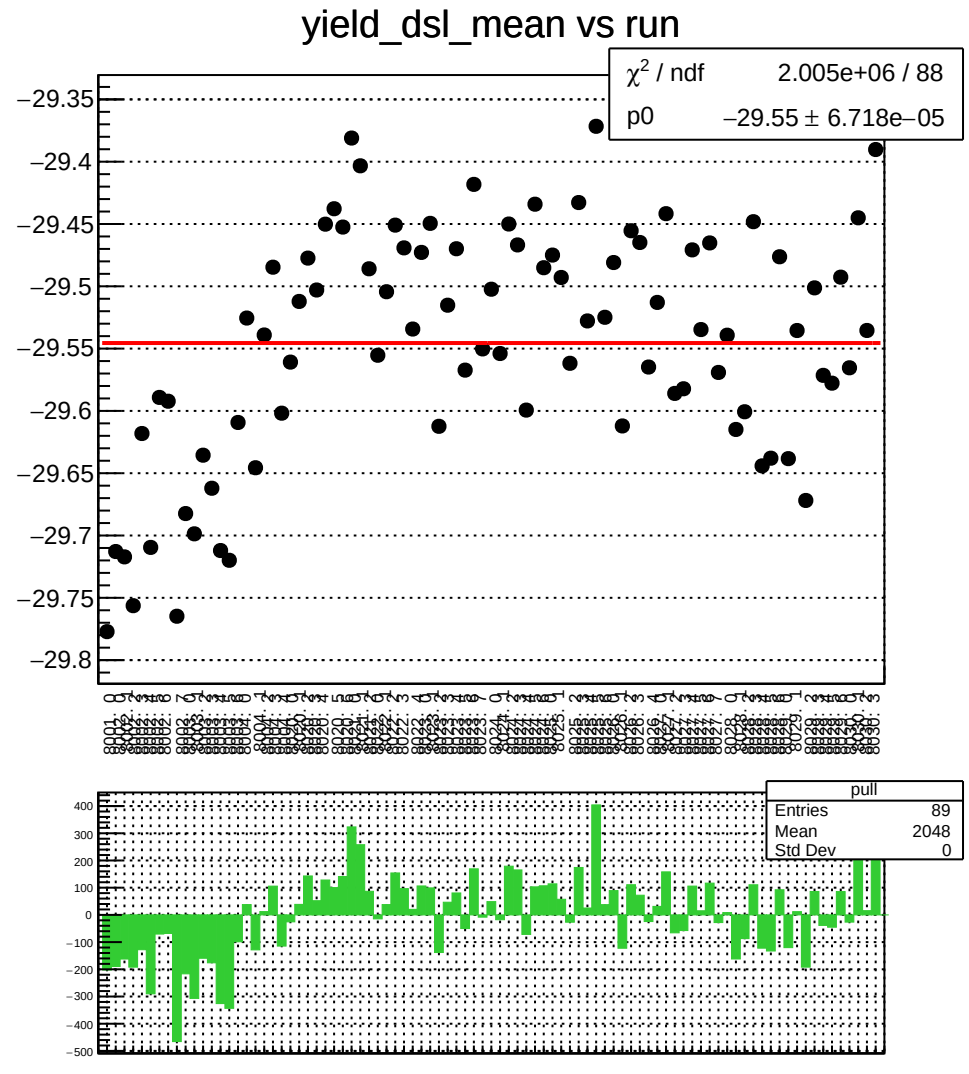

pull1D
Entries 89
Mean −2.343
Std Dev 3.419
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

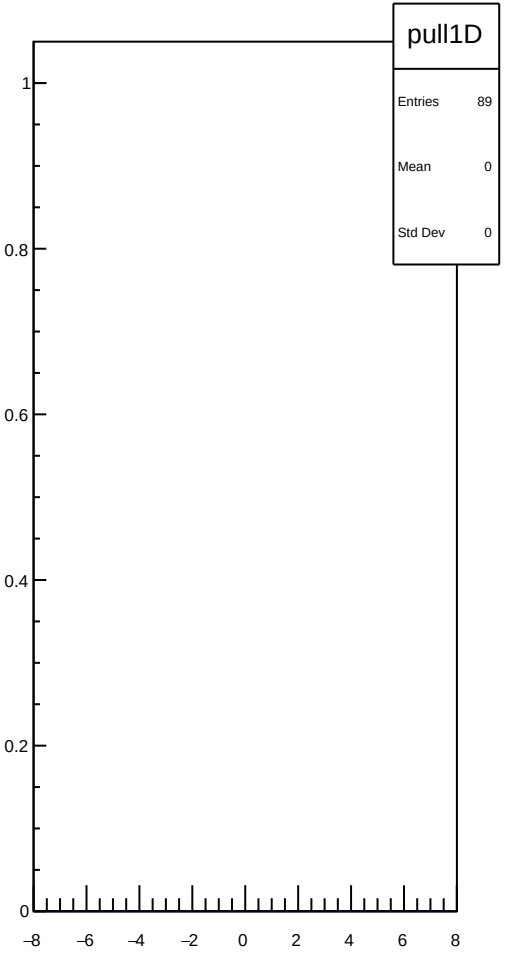

yield_usl_rms vs run
χ² / ndf 1.554e+05 / 88
p0 0.0991 ± 7.886e−05
0.3
0.25
0.2
0.15
0.1

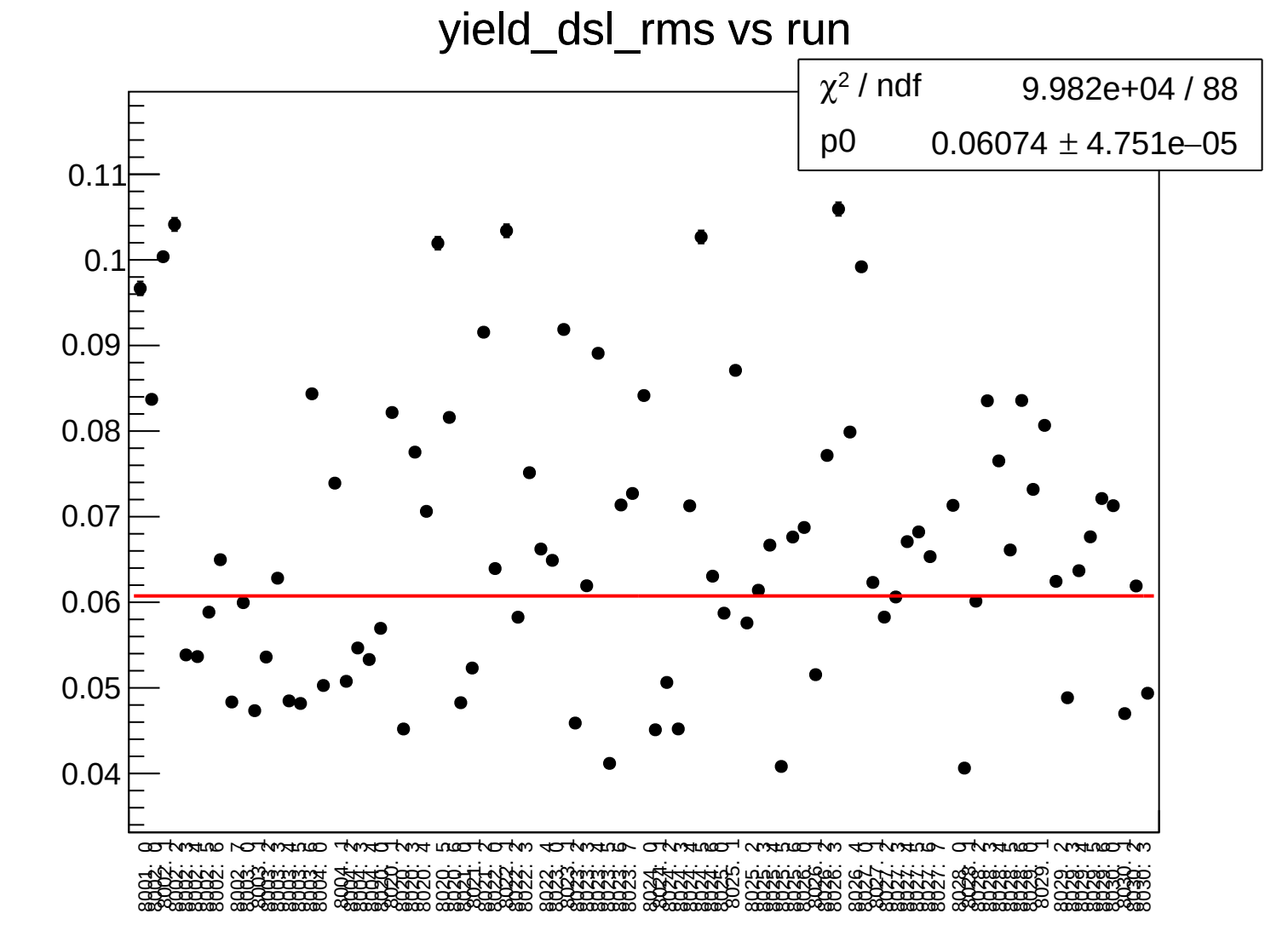

yield_usr_mean vs run
χ² / ndf 4.644e+05 / 88
p0 33.67 ± 0.0002291
34.4
34.2
34
33.8
33.6
33.4
pull
Entries 89
Mean −831.1
Std Dev 0
350
300
250
200
150
100
50
0
−50
−100

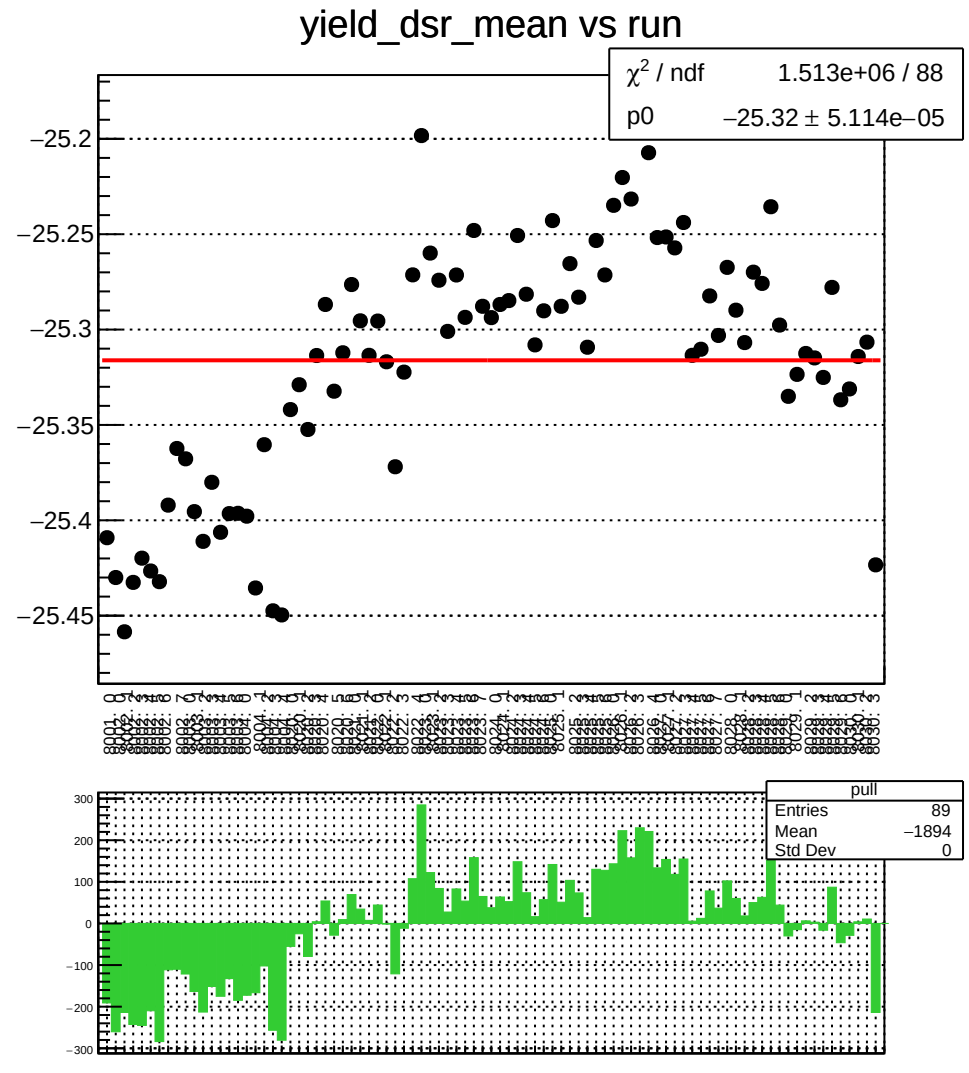

pull1D
Entries 89
Mean 1.413
Std Dev 3.202
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

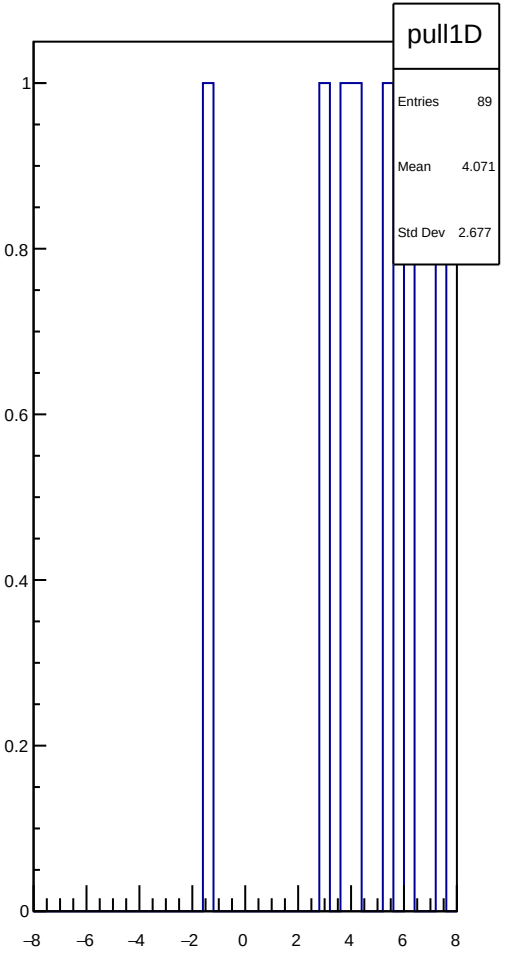

yield_usr_rms vs run
χ² / ndf 1.175e+05 / 88
p0 0.206 ± 0.000162
0.7
0.6
0.5
0.4
0.3
0.2
0.1

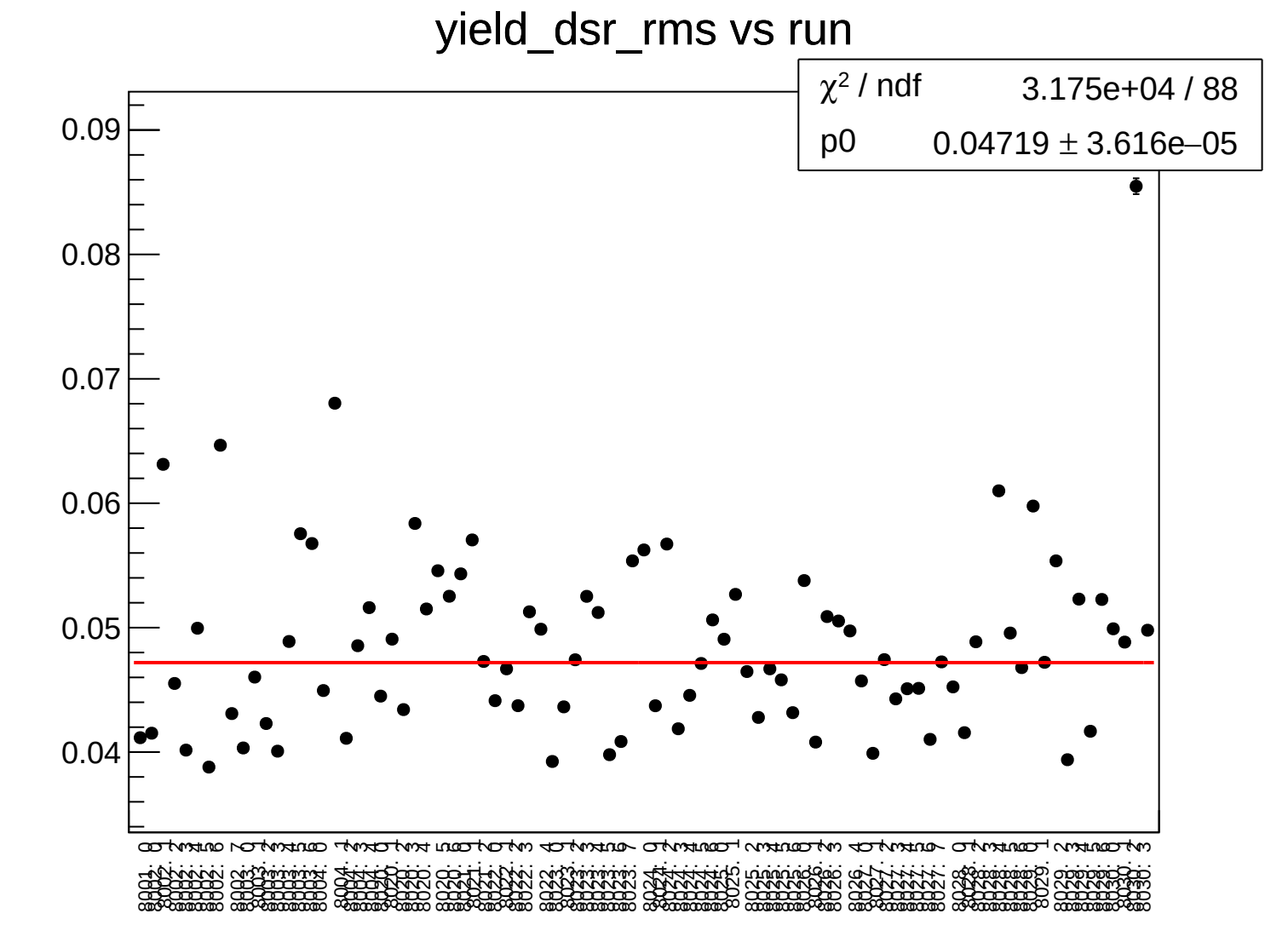

yield_dsl_mean vs run
χ² / ndf 2.005e+06 / 88
p0 −29.55 ± 6.718e−05
−29.35
−29.4
−29.45
−29.5
−29.55
−29.6
−29.65
−29.7
−29.75
−29.8
pull
Entries 89
Mean 2048
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400
−500

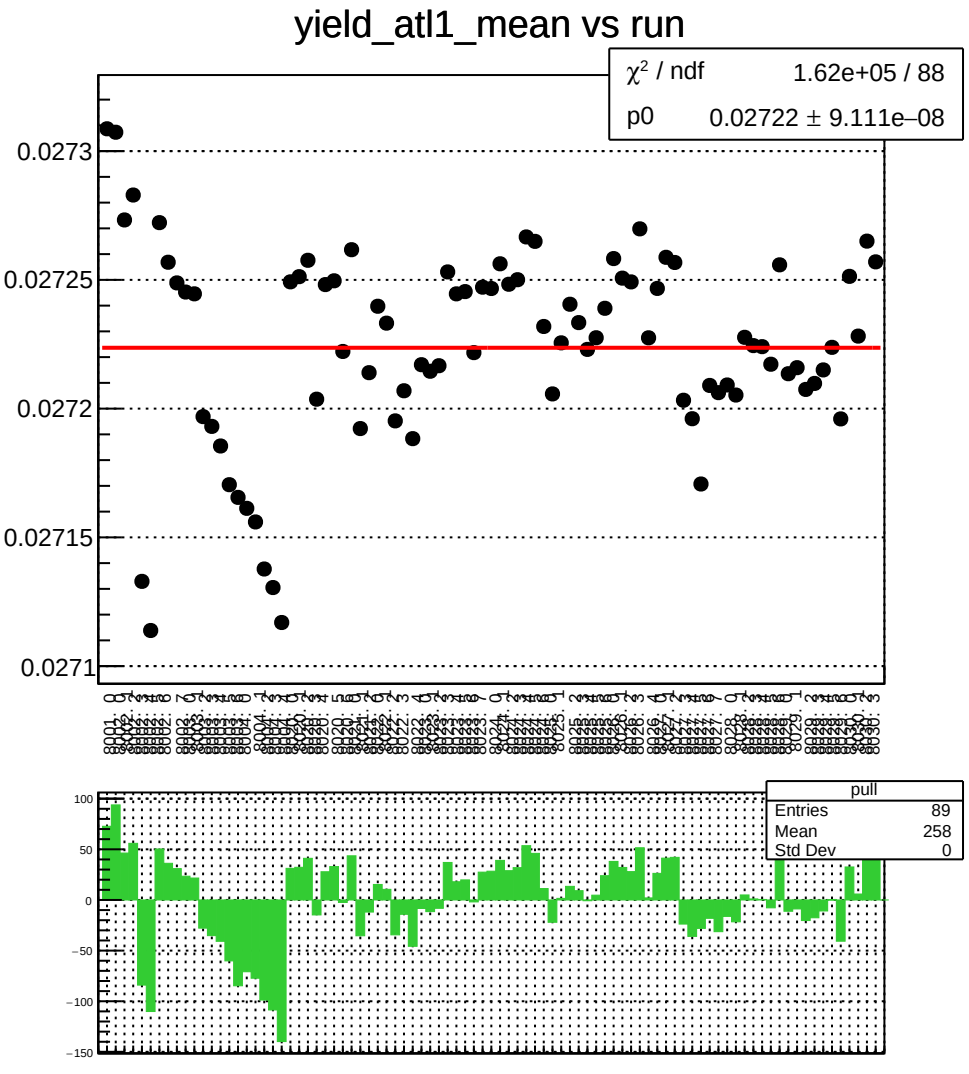

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

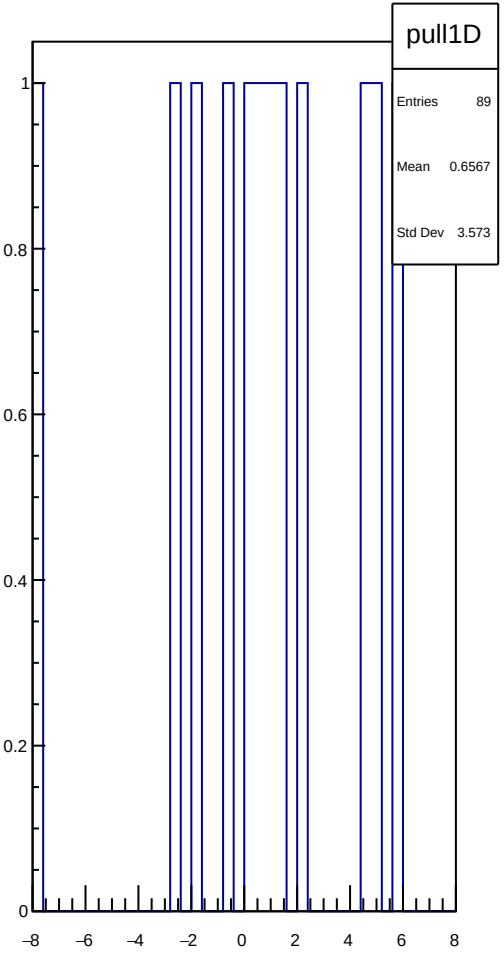

yield_dsl_rms vs run
χ^2 / ndf 9.982e+04 / 88
p0 0.06074 ± 4.751e−05
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04

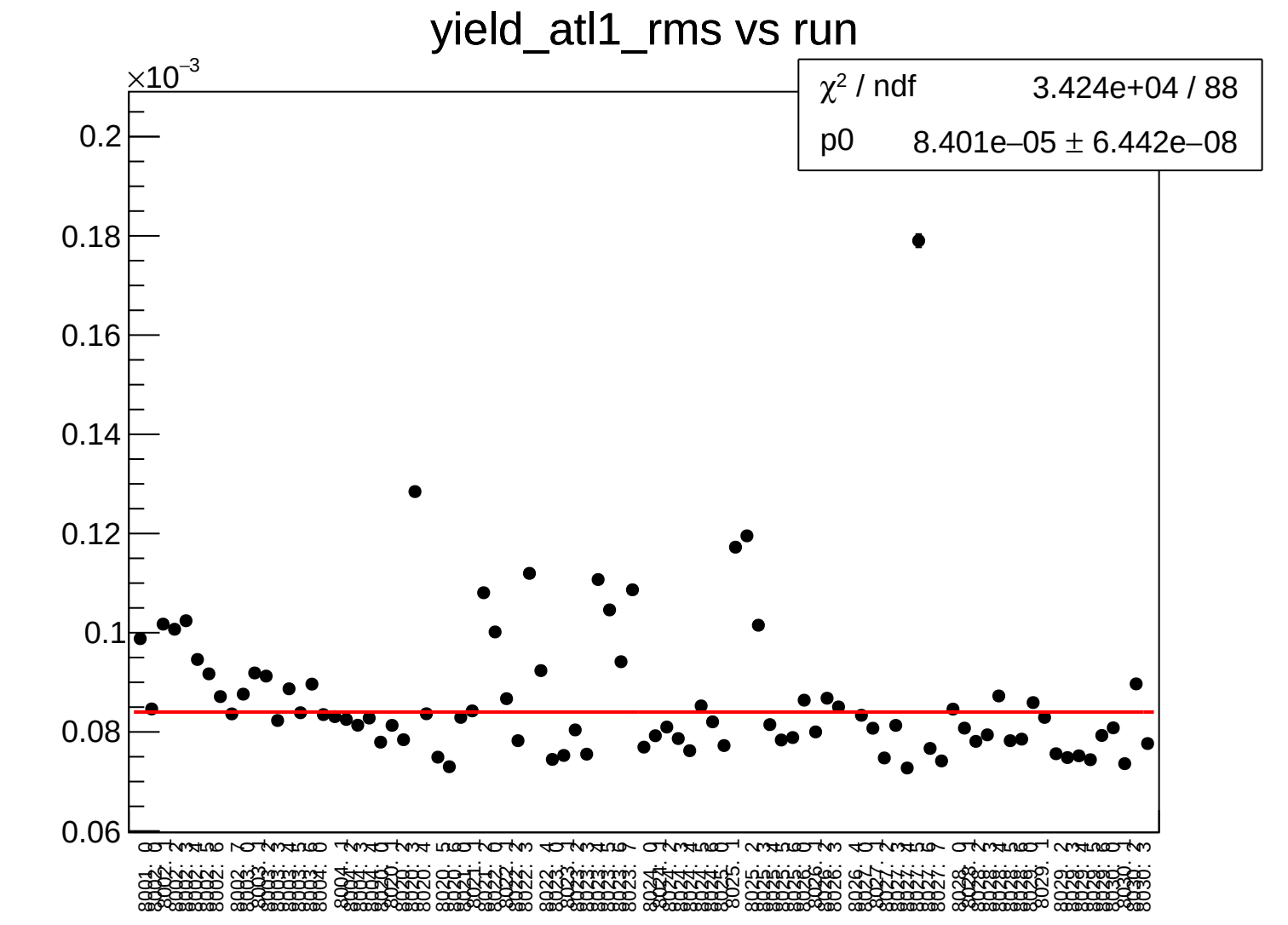

yield_dsr_mean vs run
χ² / ndf 1.513e+06 / 88
p0 −25.32 ± 5.114e−05
−25.2
−25.25
−25.3
−25.35
−25.4
−25.45
pull
Entries 89
Mean −1894
Std Dev 0
300
200
100
0
−100
−200
−300

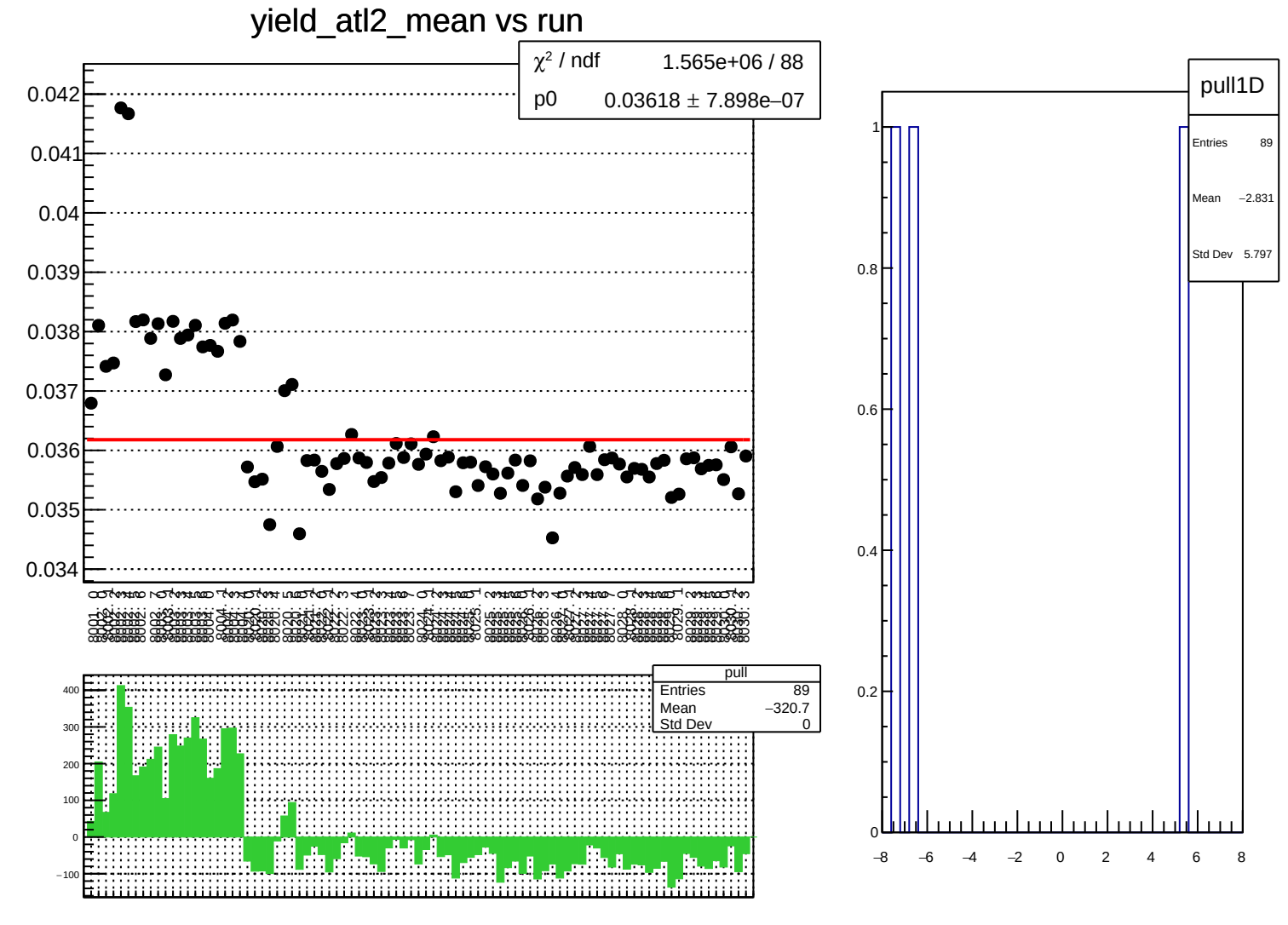

pull1D
Entries 89
Mean 4.071
Std Dev 2.677
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

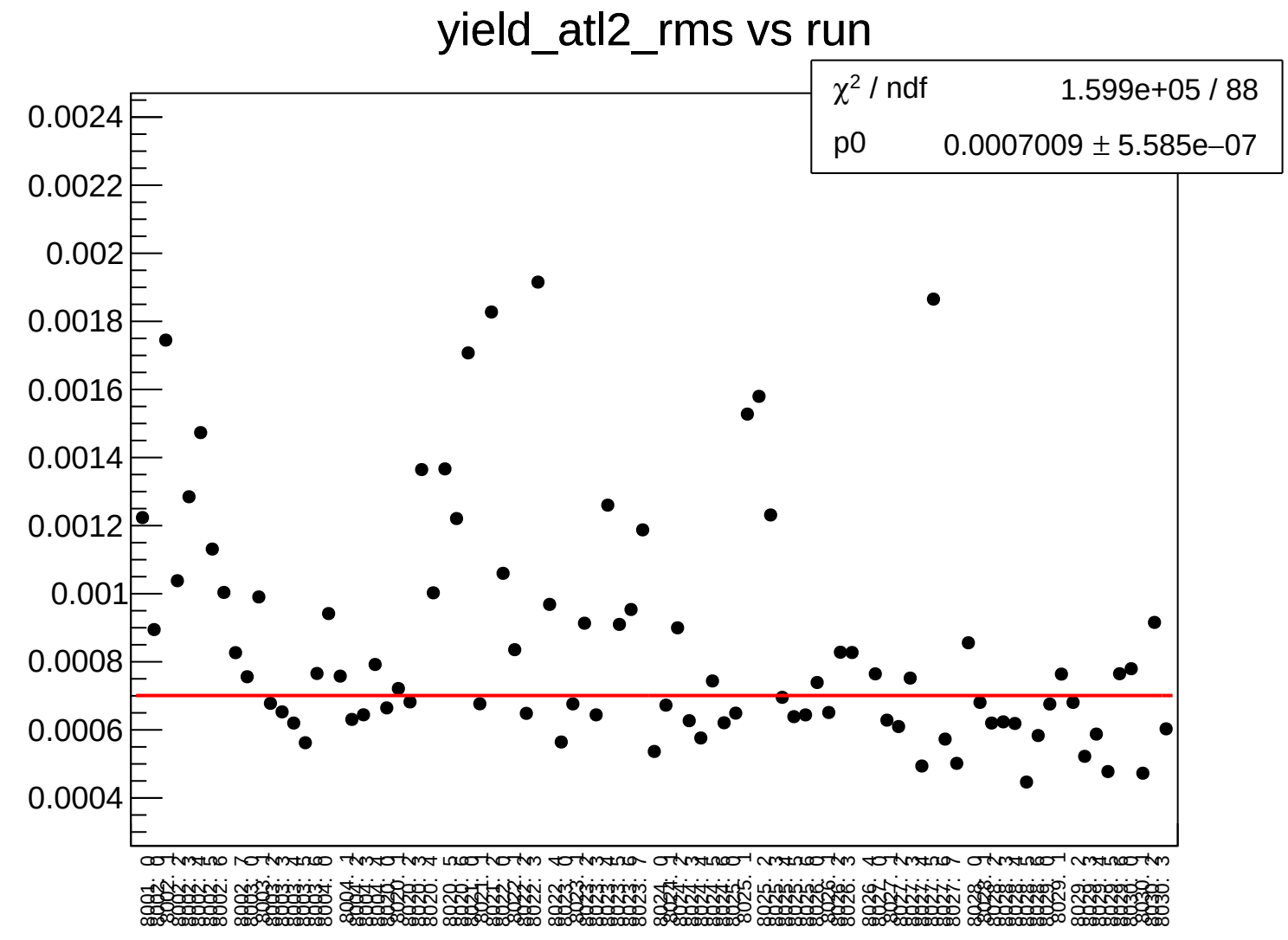

yield_dsr_rms vs run
χ² / ndf 3.175e+04 / 88
p0 0.04719 ± 3.616e−05
0.09
0.08
0.07
0.06
0.05
0.04

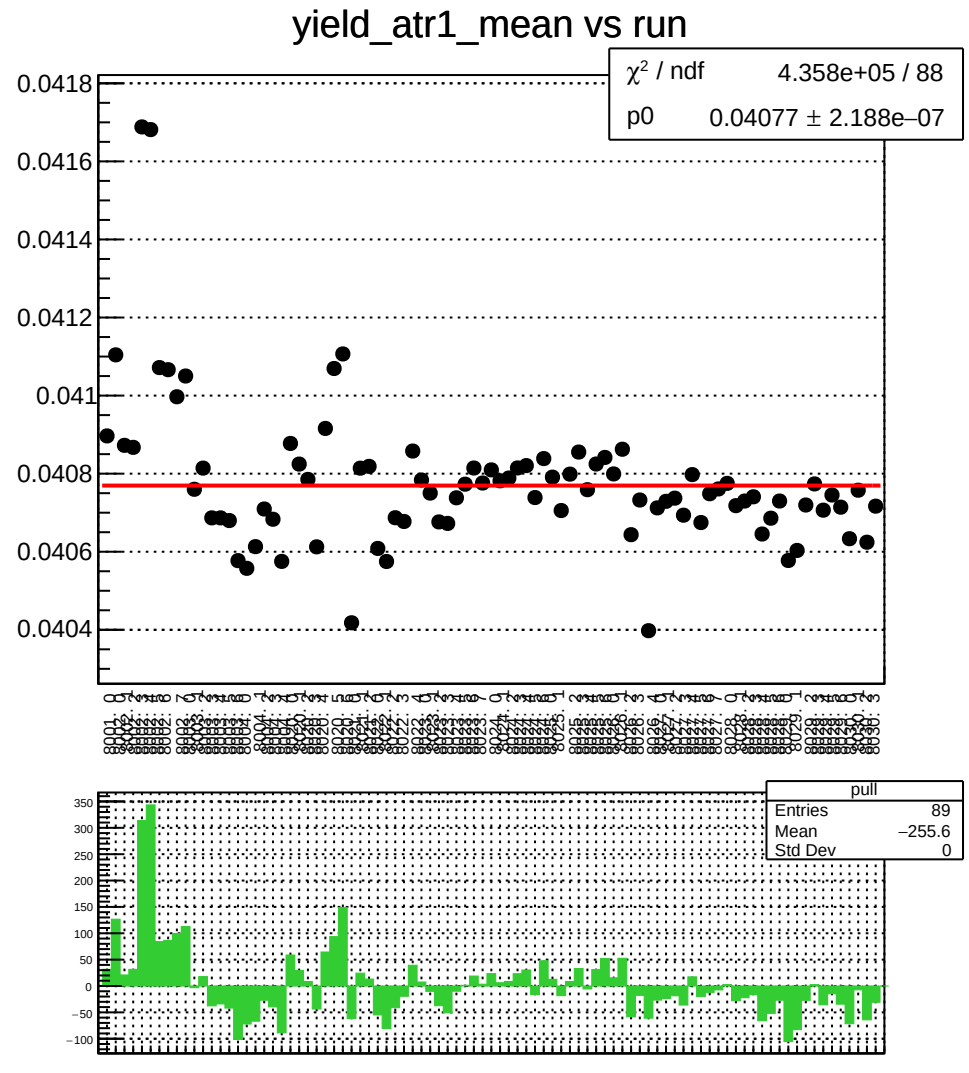

yield_atl1_mean vs run
χ² / ndf 1.62e+05 / 88
p0 0.02722 ± 9.111e−08
0.0273
0.02725
0.0272
0.02715
0.0271
pull
Entries 89
Mean 258
Std Dev 0
100
50
0
−50
−100
−150

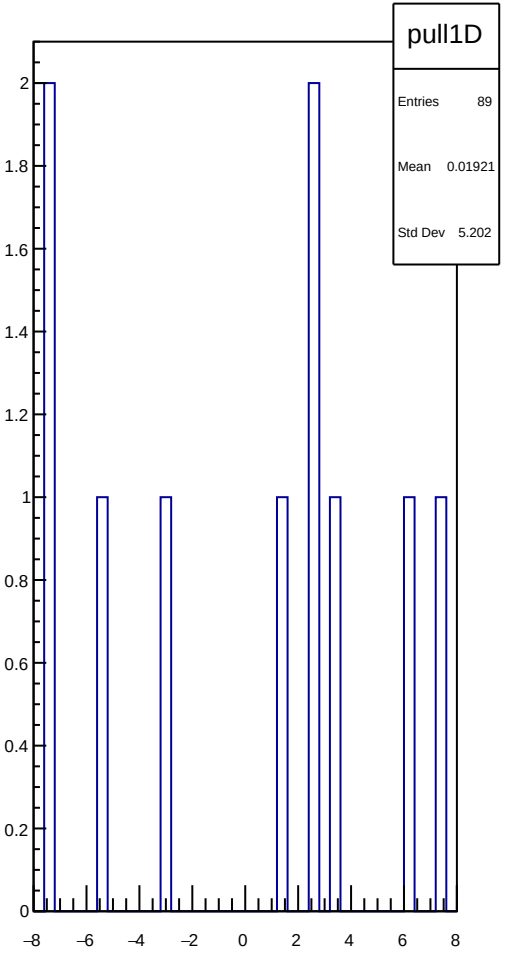

pull1D
Entries 89
Mean 0.6567
Std Dev 3.573
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

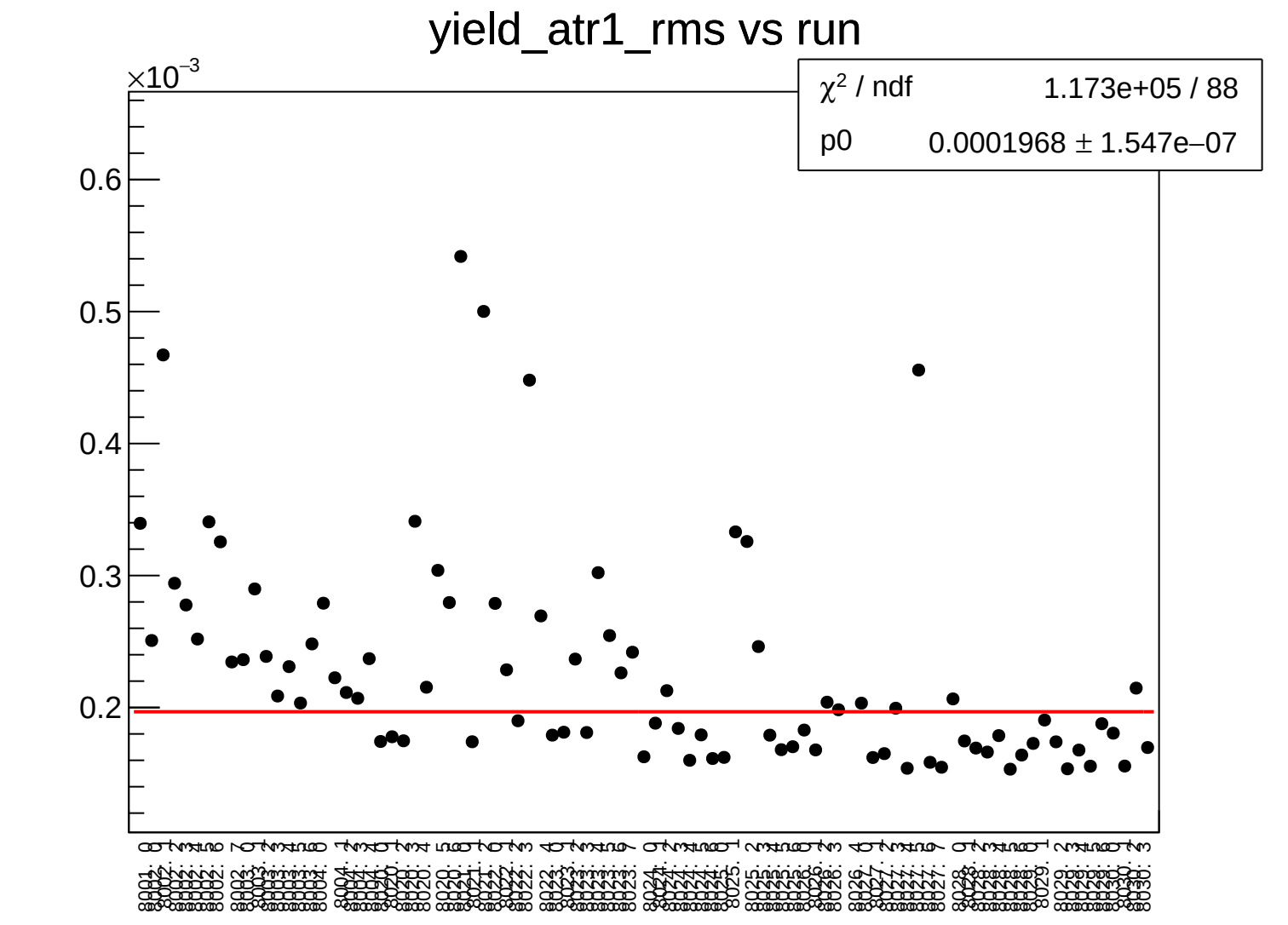

yield_atl1_rms vs run
×10⁻³
χ² / ndf 3.424e+04 / 88
p0 8.401e−05 ± 6.442e−08
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06

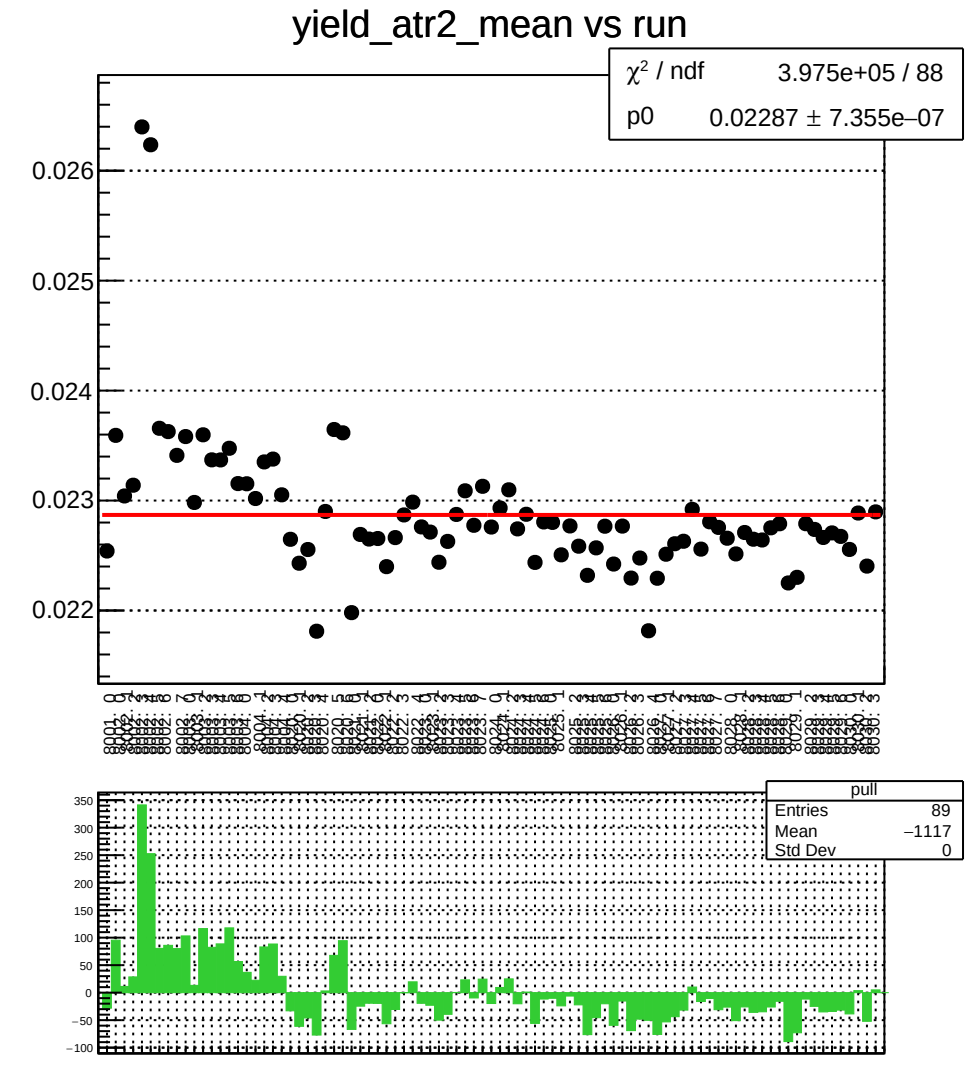

yield_atl2_mean vs run
χ² / ndf 1.565e+06 / 88
p0 0.03618 ± 7.898e−07
0.042
0.041
0.04
0.039
0.038
0.037
0.036
0.035
0.034
pull
Entries 89
Mean −320.7
Std Dev 0
400
300
200
100
0
−100
pull1D
Entries 89
Mean −2.831
Std Dev 5.797
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

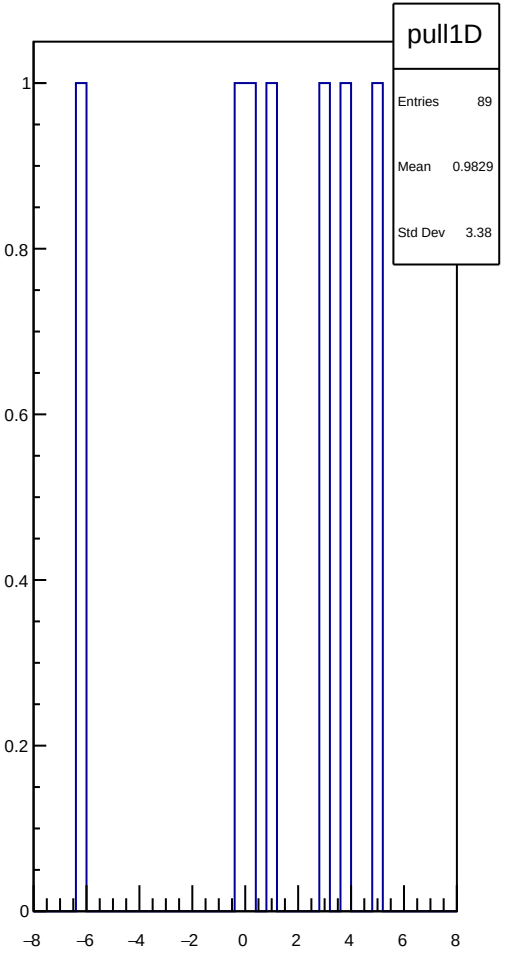

yield_atl2_rms vs run
χ² / ndf 1.599e+05 / 88
p0 0.0007009 ± 5.585e−07
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004

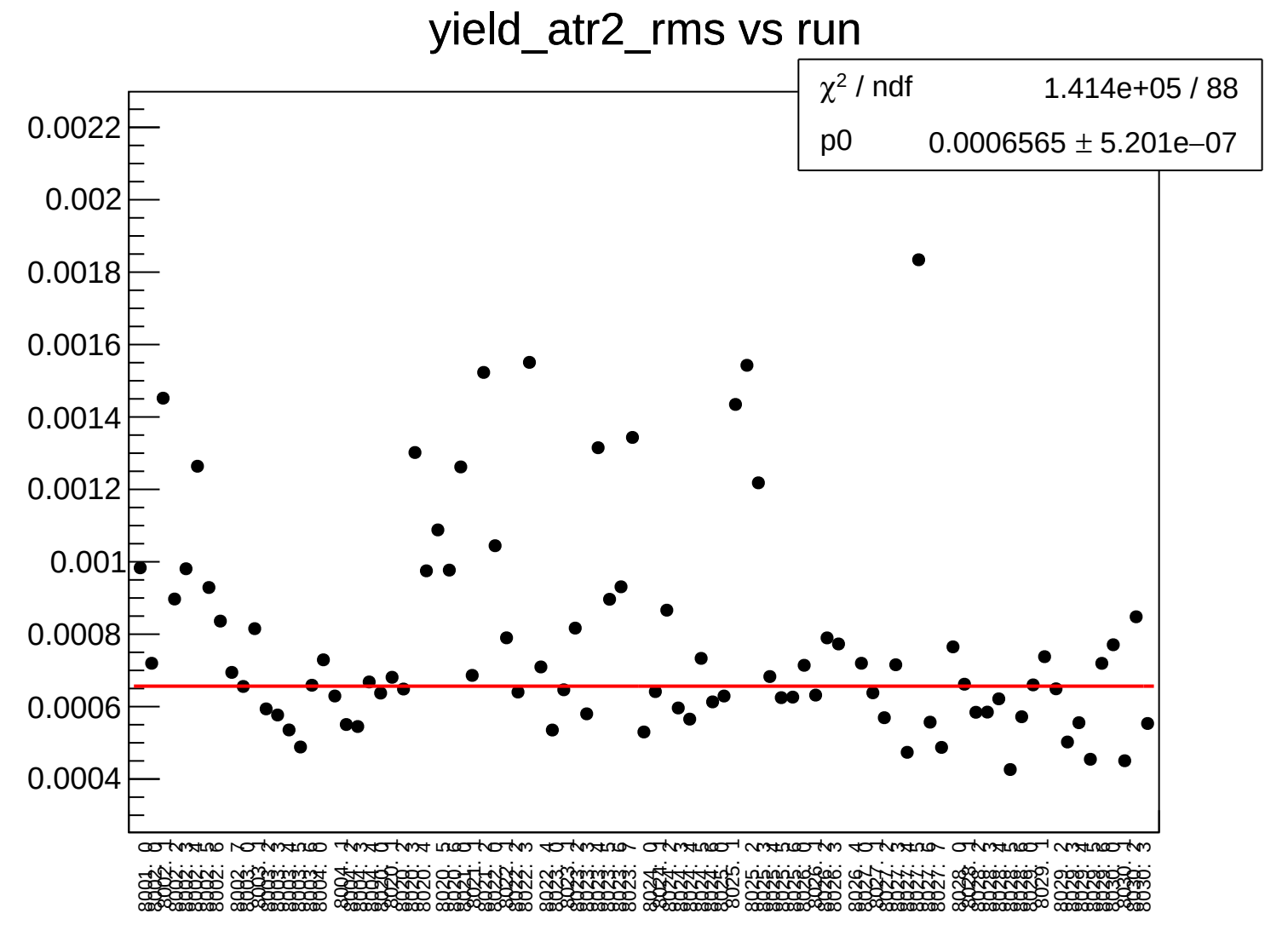

yield_atr1_mean vs run
χ² / ndf 4.358e+05 / 88
p0 0.04077 ± 2.188e−07
0.0418
0.0416
0.0414
0.0412
0.041
0.0408
0.0406
0.0404
pull
Entries 89
Mean −255.6
Std Dev 0
350
300
250
200
150
100
50
0
−50
−100

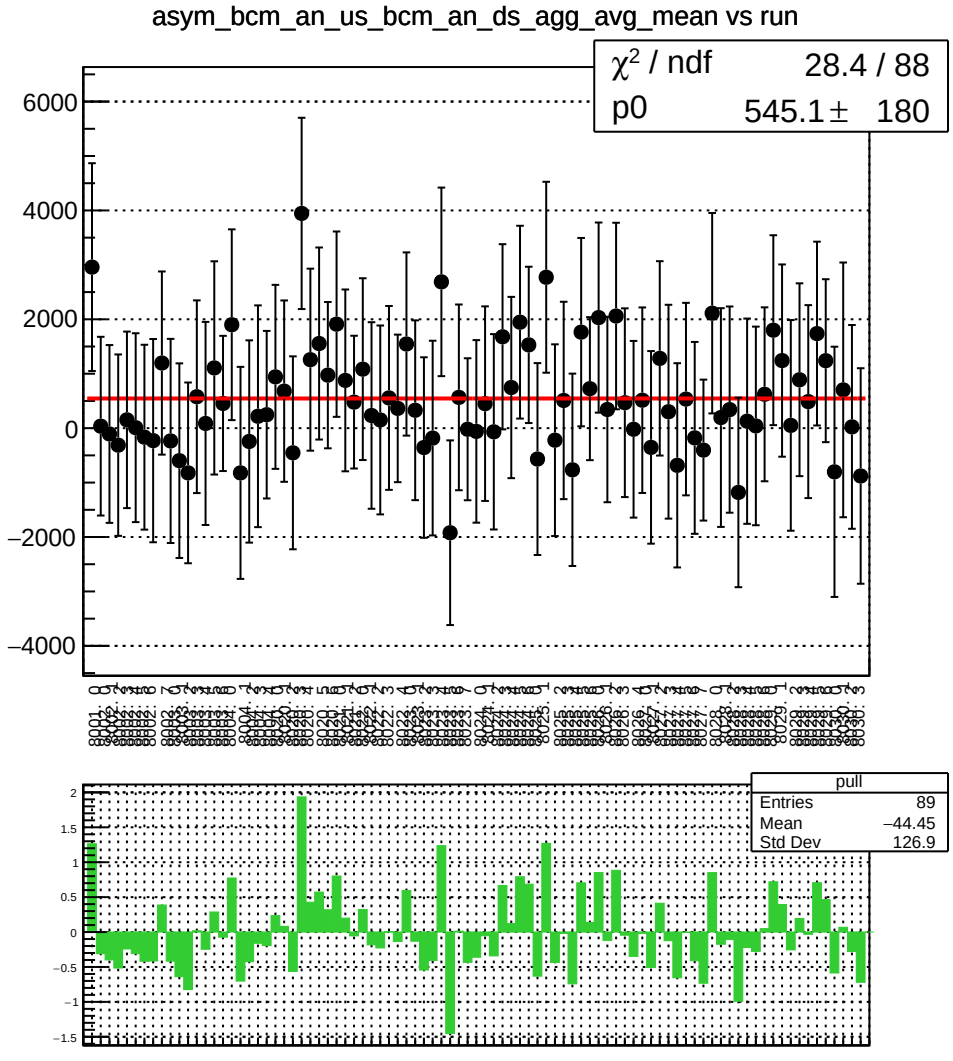

pull1D
Entries 89
Mean 0.01921
Std Dev 5.202
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

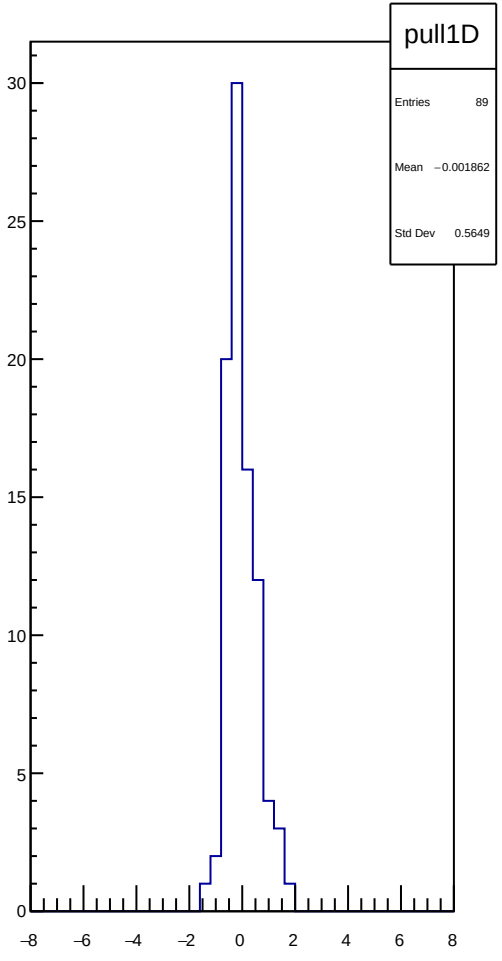

yield_atr1_rms vs run
×10⁻³
χ² / ndf 1.173e+05 / 88
p0 0.0001968 ± 1.547e−07
0.6
0.5
0.4
0.3
0.2

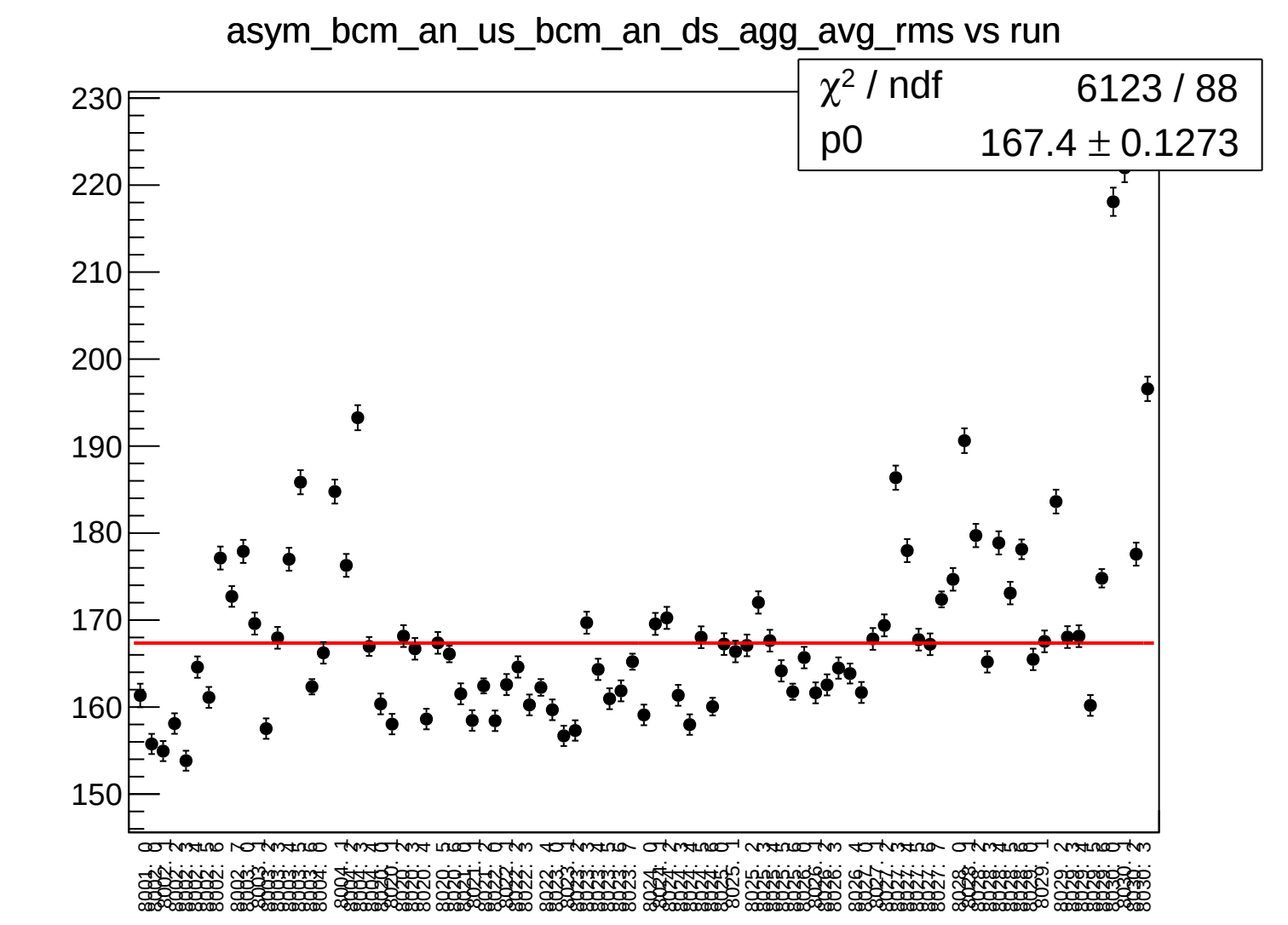

yield_atr2_mean vs run
χ² / ndf 3.975e+05 / 88
p0 0.02287 ± 7.355e−07
0.026
0.025
0.024
0.023
0.022
pull
Entries 89
Mean −1117
Std Dev 0
350
300
250
200
150
100
50
0
−50
−100

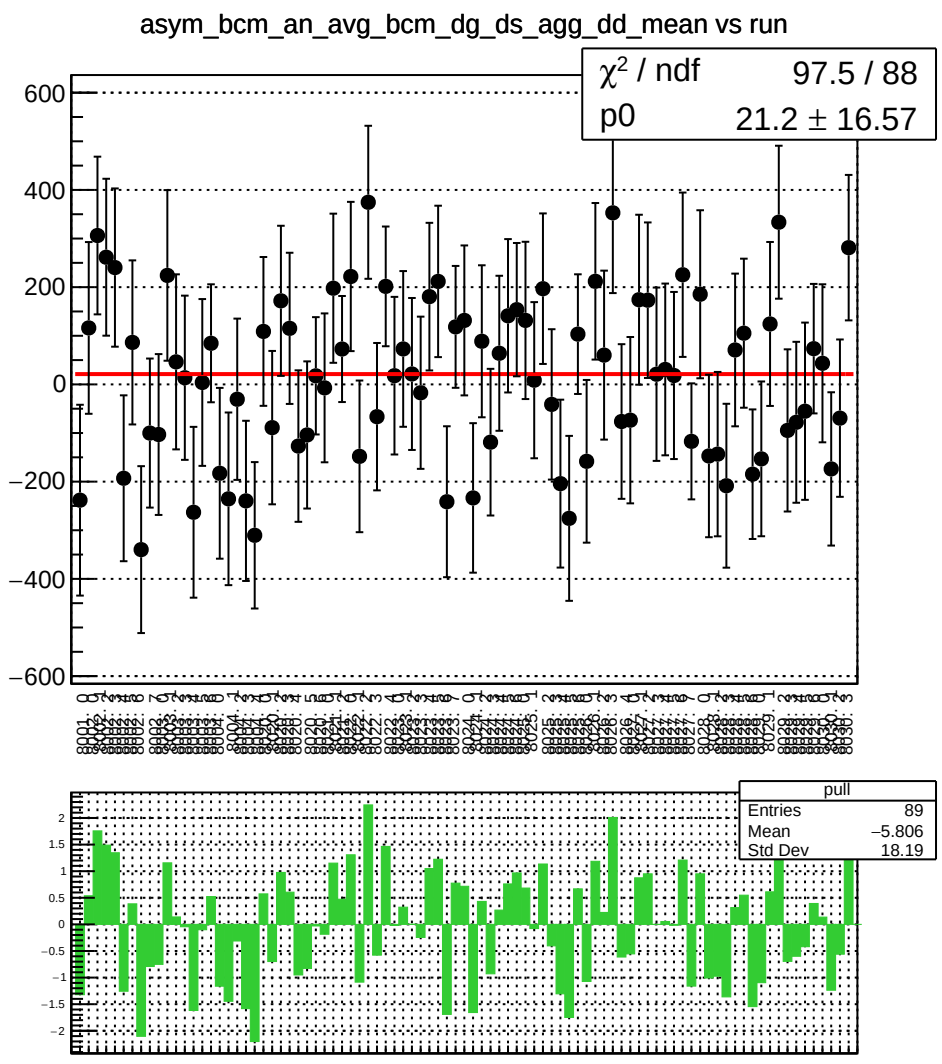

pull1D
Entries 89
Mean 0.9829
Std Dev 3.38
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

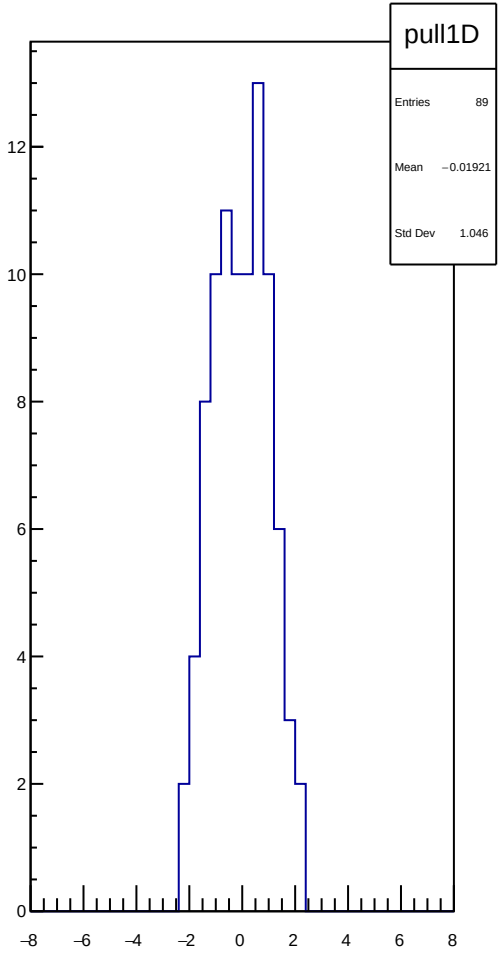

yield_atr2_rms vs run
χ² / ndf 1.414e+05 / 88
p0 0.0006565 ± 5.201e−07
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004

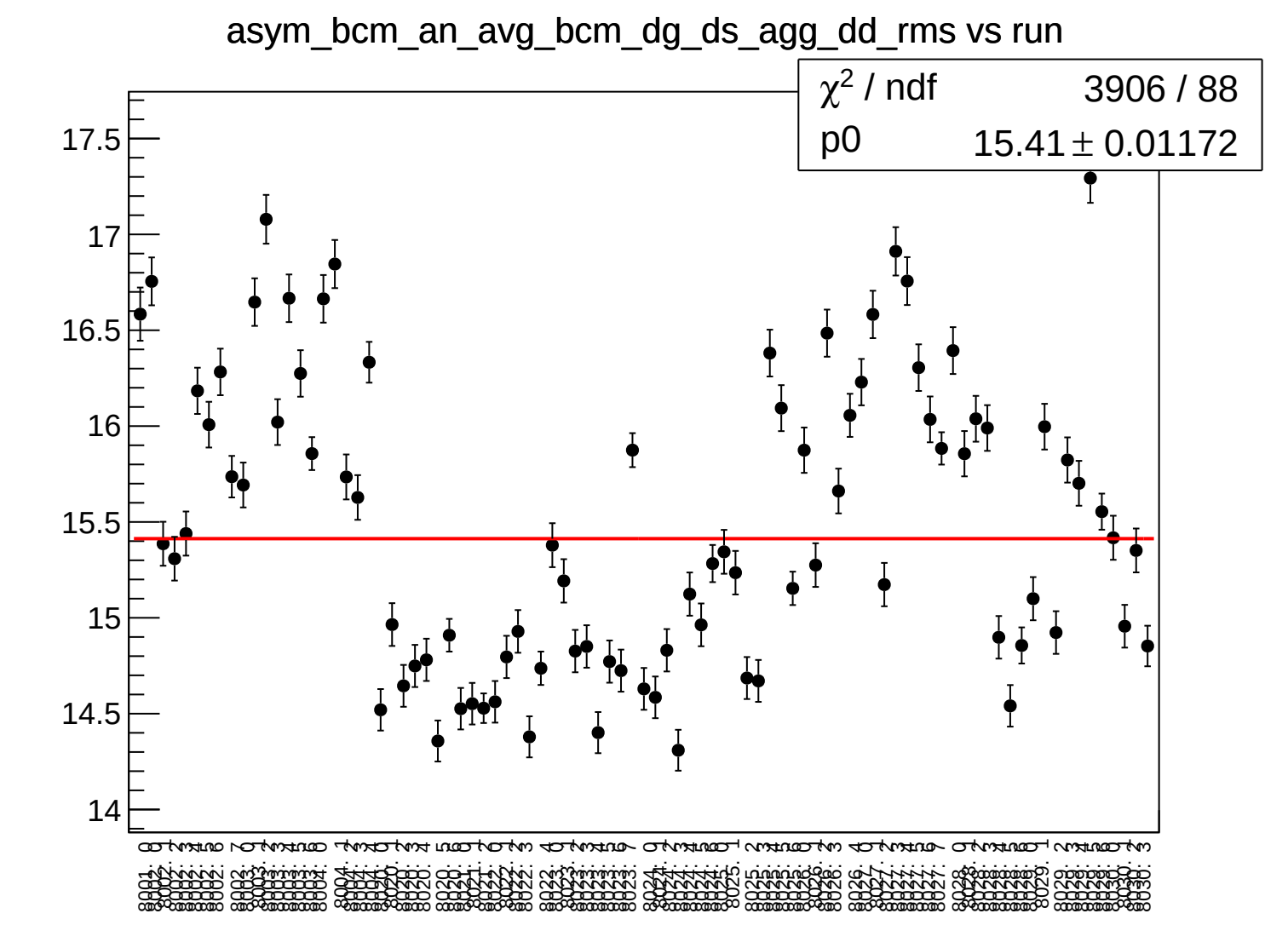

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 28.4 / 88
p0 545.1 ± 180
pull
Entries 89
Mean −44.45
Std Dev 126.9

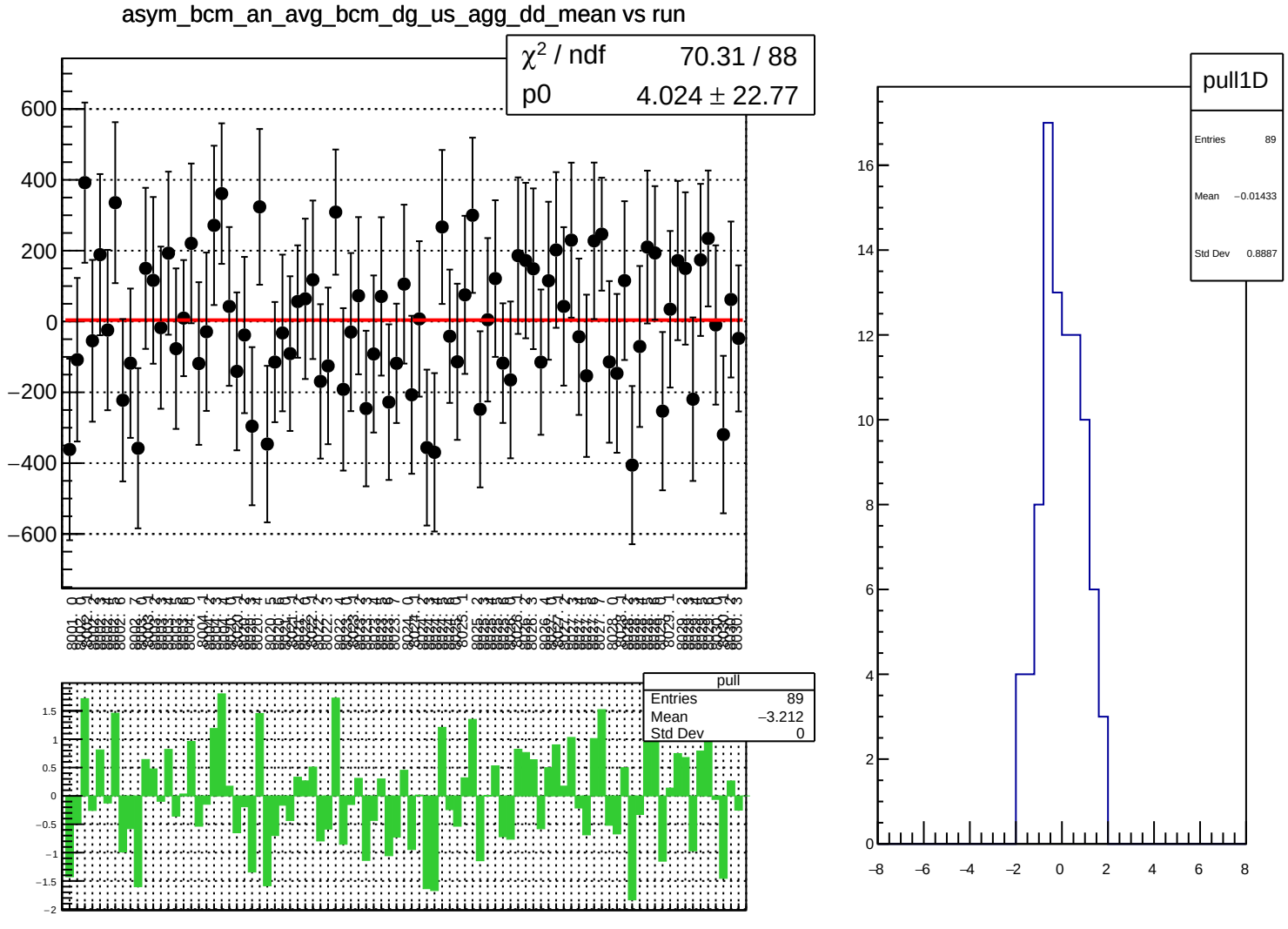

pull1D
Entries 89
Mean −0.001862
Std Dev 0.5649

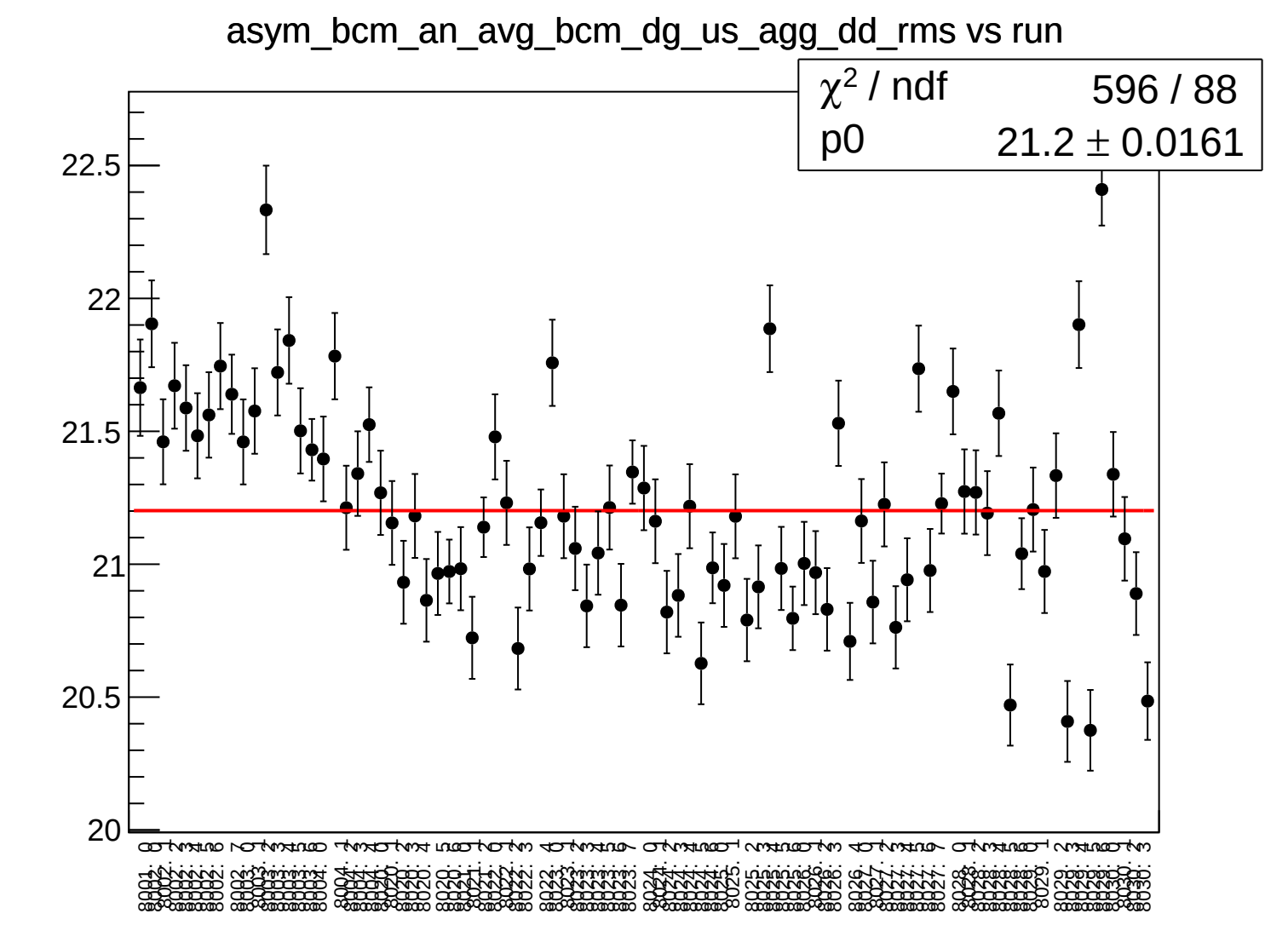

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 6123 / 88
p0 167.4 ± 0.1273
230
220
210
200
190
180
170
160
150

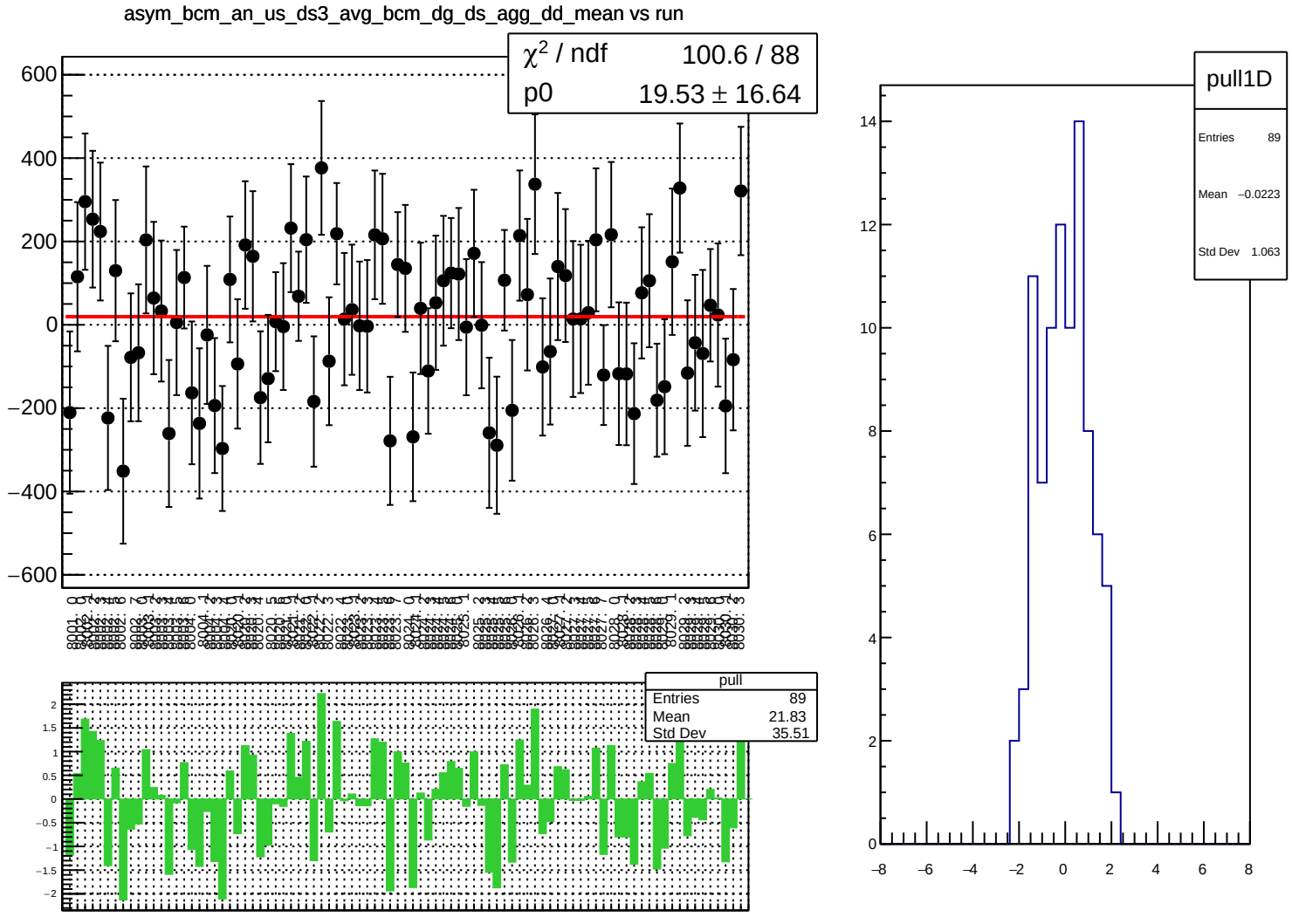

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 97.5 / 88
p0 21.2 ± 16.57
pull
Entries 89
Mean −5.806
Std Dev 18.19

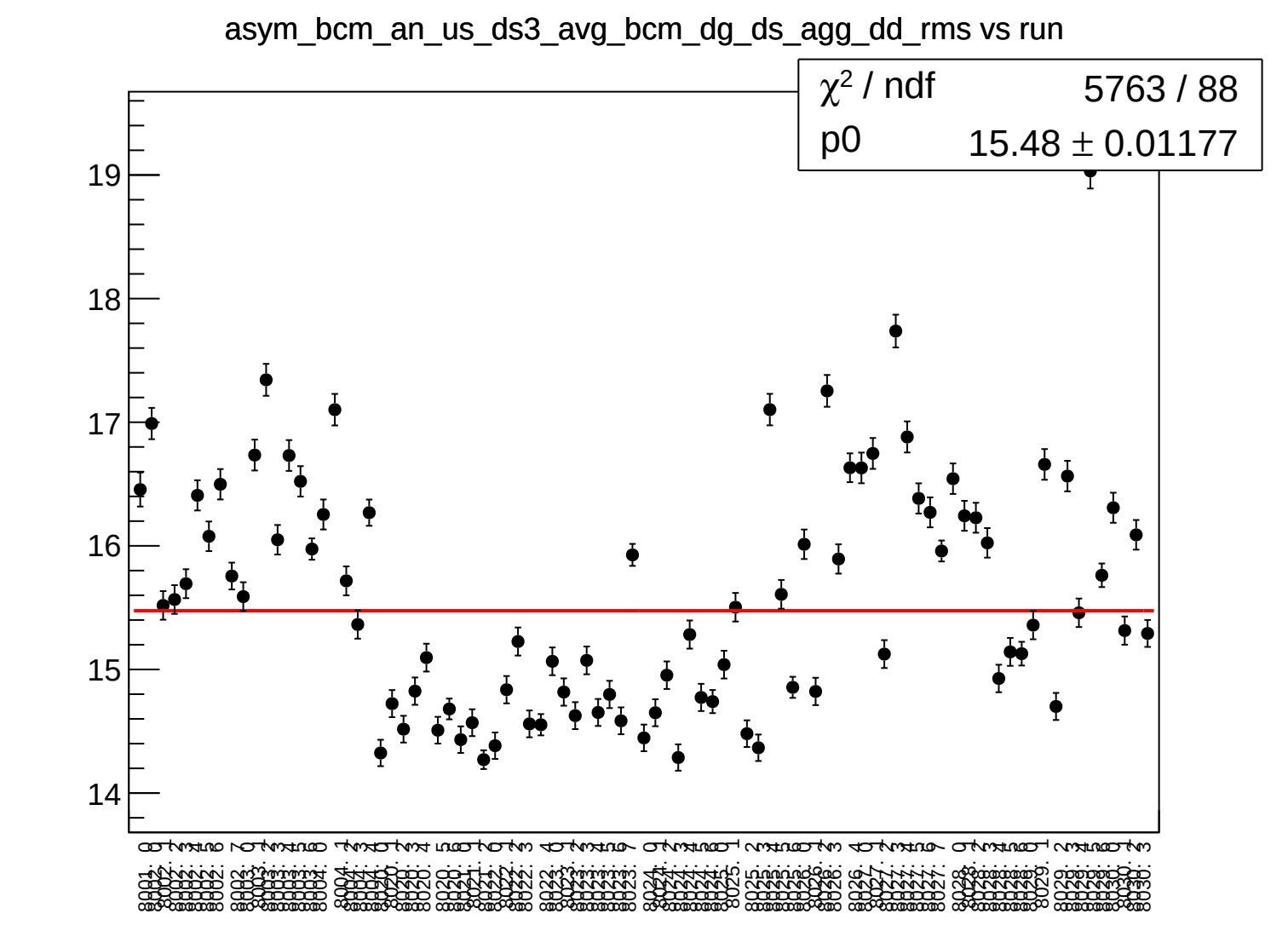

pull1D
Entries 89
Mean −0.01921
Std Dev 1.046

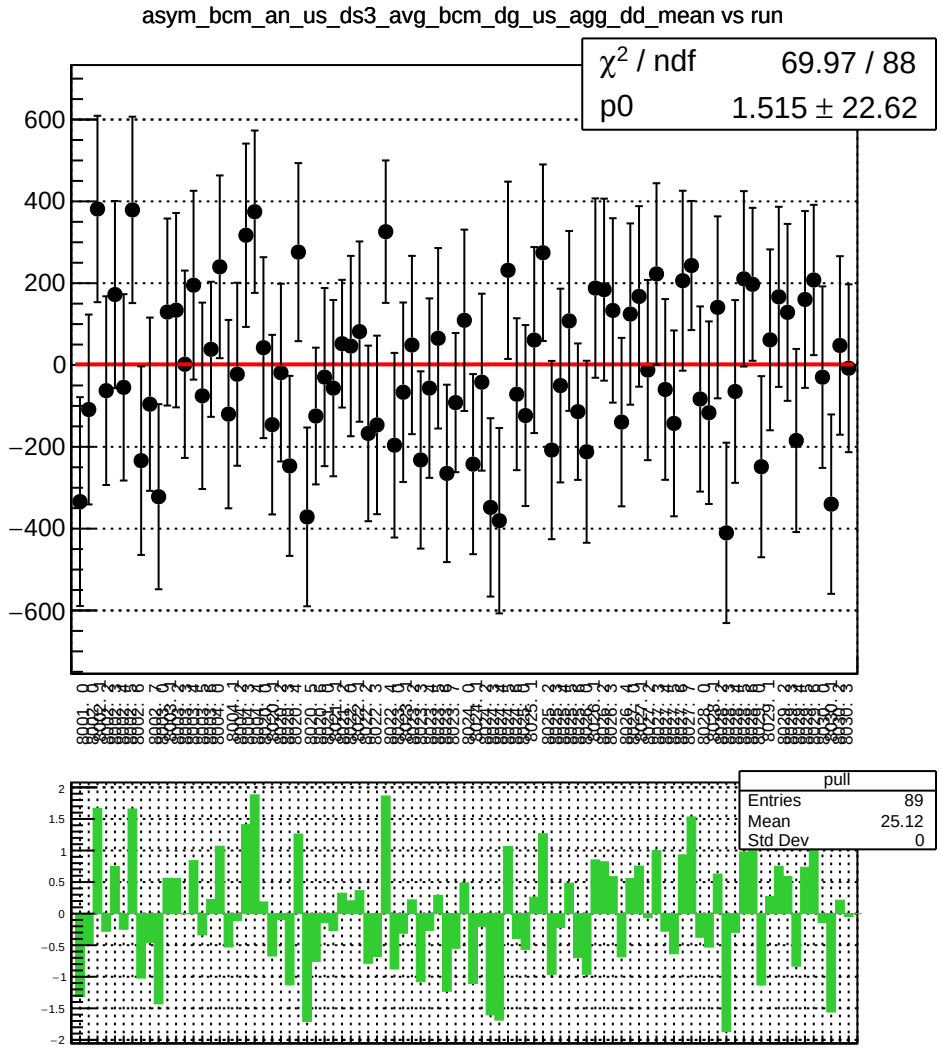

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 3906 / 88
p0 15.41 ± 0.01172
17.5
17
16.5
16
15.5
15
14.5
14

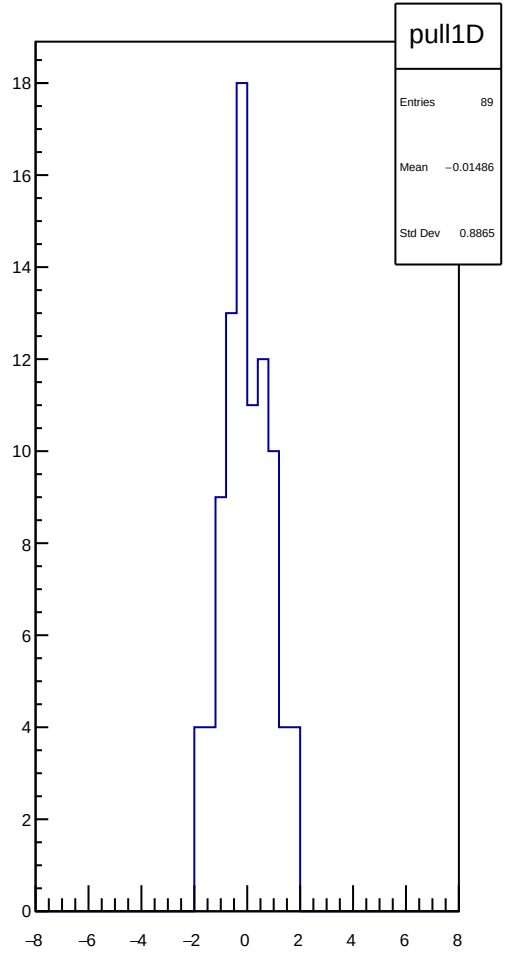

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 70.31 / 88
p0 4.024 ± 22.77
pull
Entries 89
Mean −3.212
Std Dev 0
pull1D
Entries 89
Mean −0.01433
Std Dev 0.8887

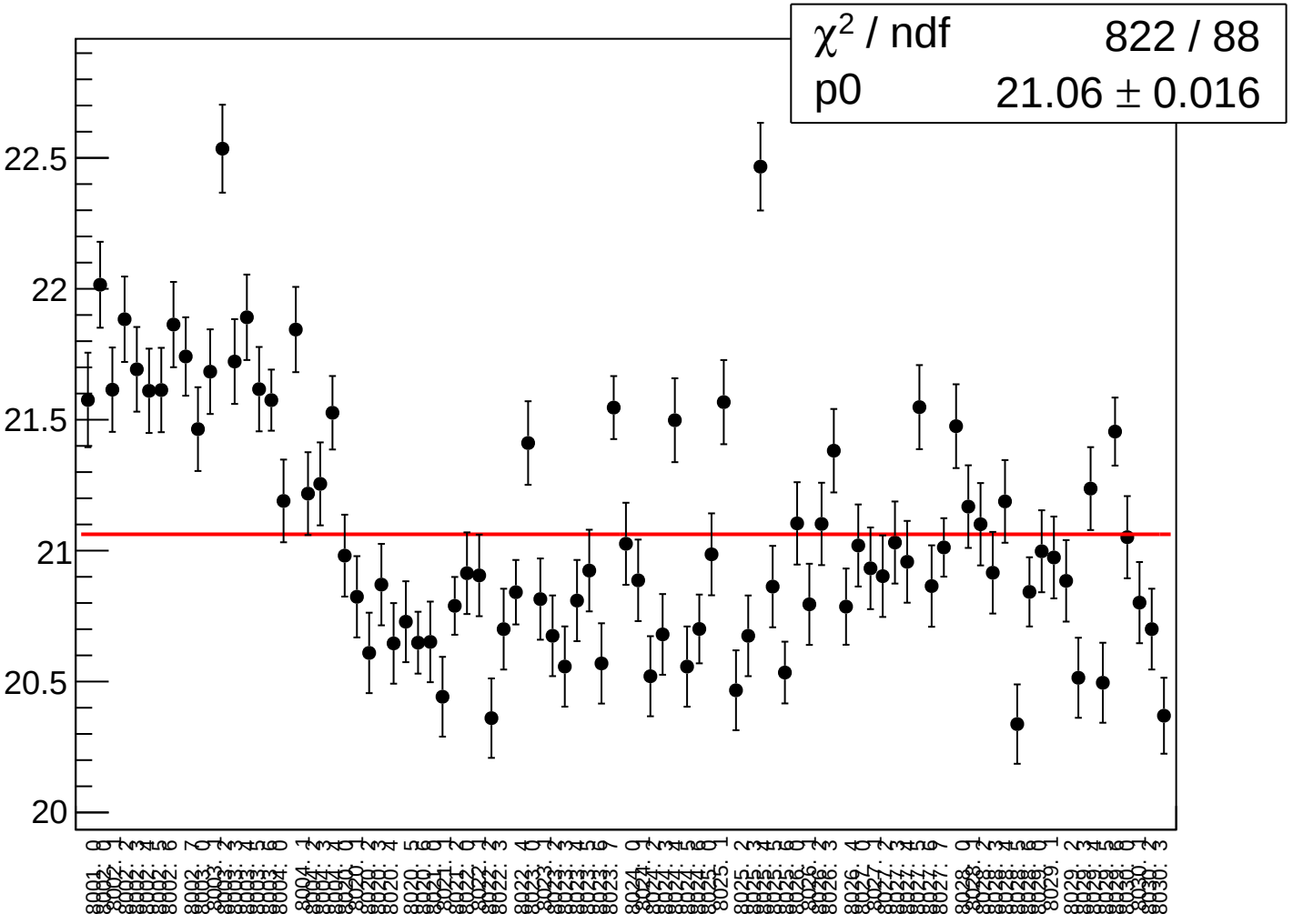

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 596 / 88
p0 21.2 ± 0.0161
22.5
22
21.5
21
20.5
20

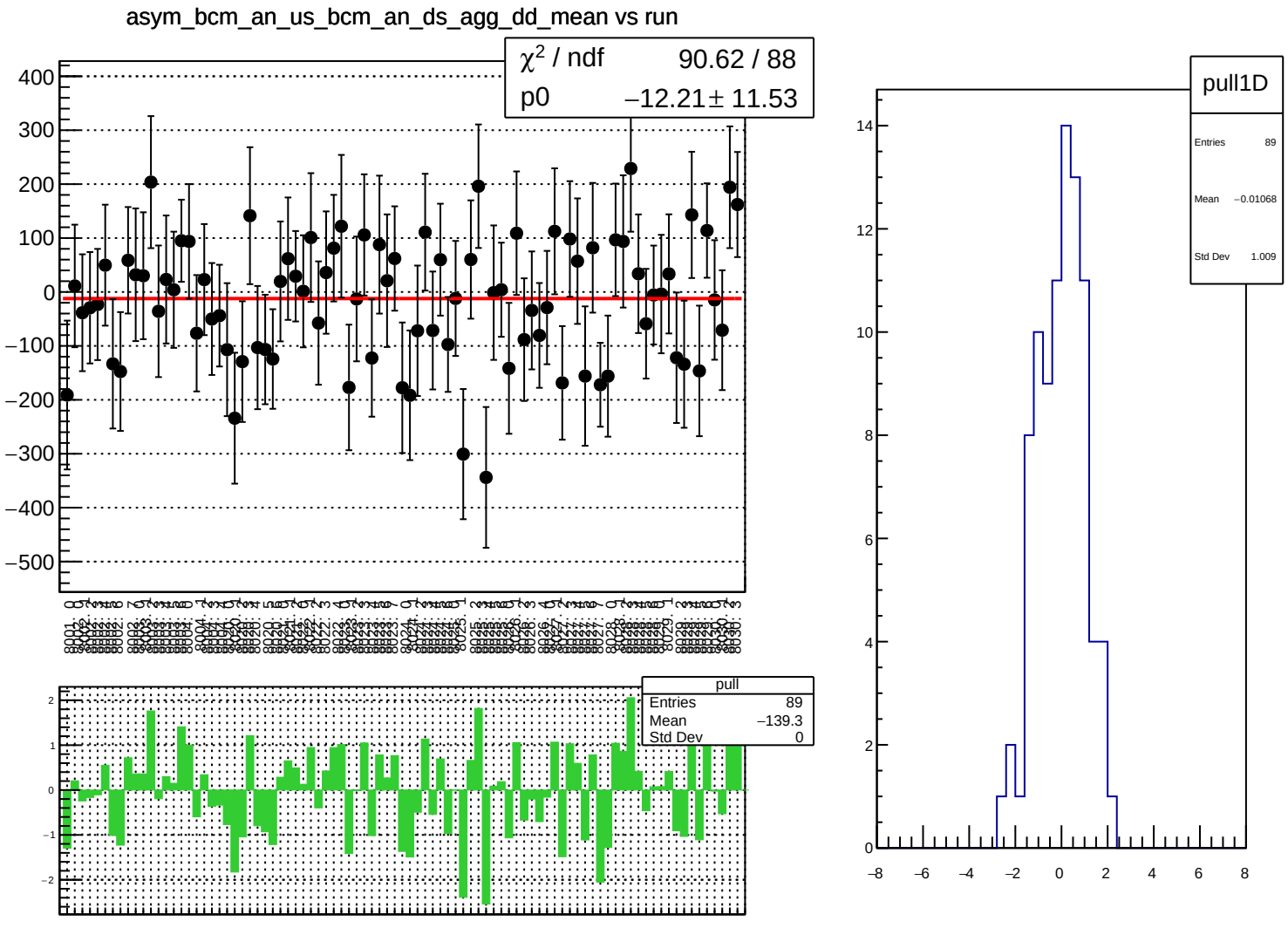

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 100.6 / 88
p0 19.53 ± 16.64
pull
Entries 89
Mean 21.83
Std Dev 35.51
pull1D
Entries 89
Mean −0.0223
Std Dev 1.063

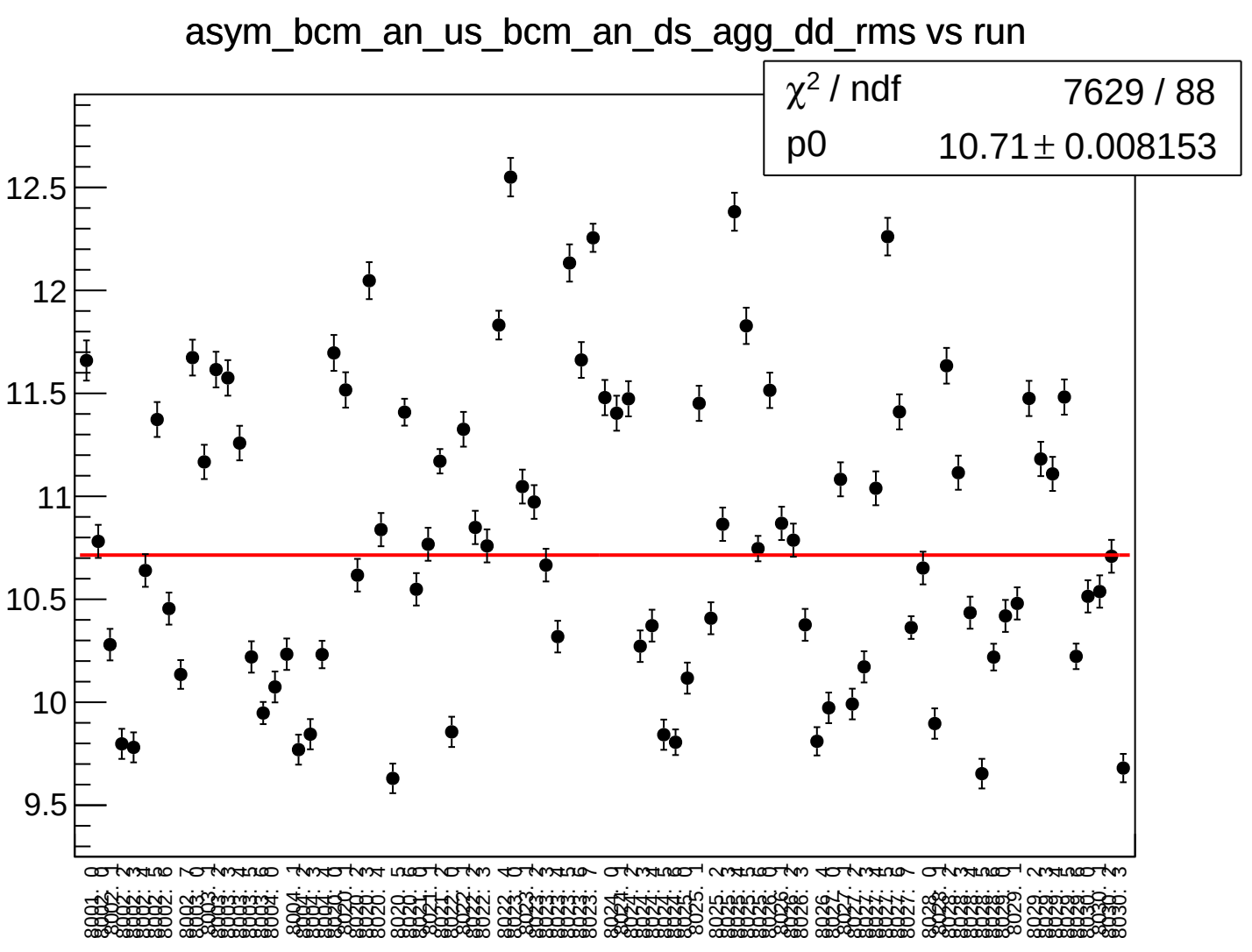

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 5763 / 88
p0 15.48 ± 0.01177
19
18
17
16
15
14

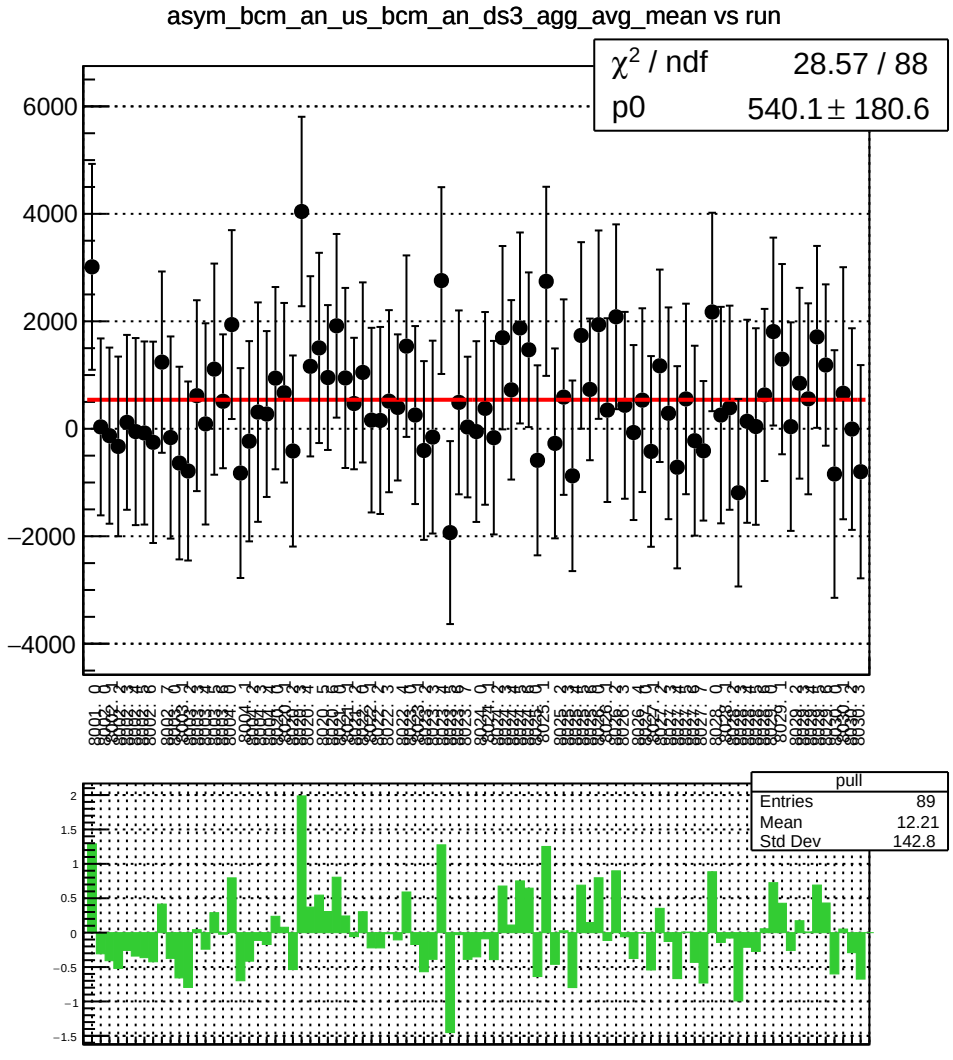

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 69.97 / 88
p0 1.515 ± 22.62
pull
Entries 89
Mean 25.12
Std Dev 0

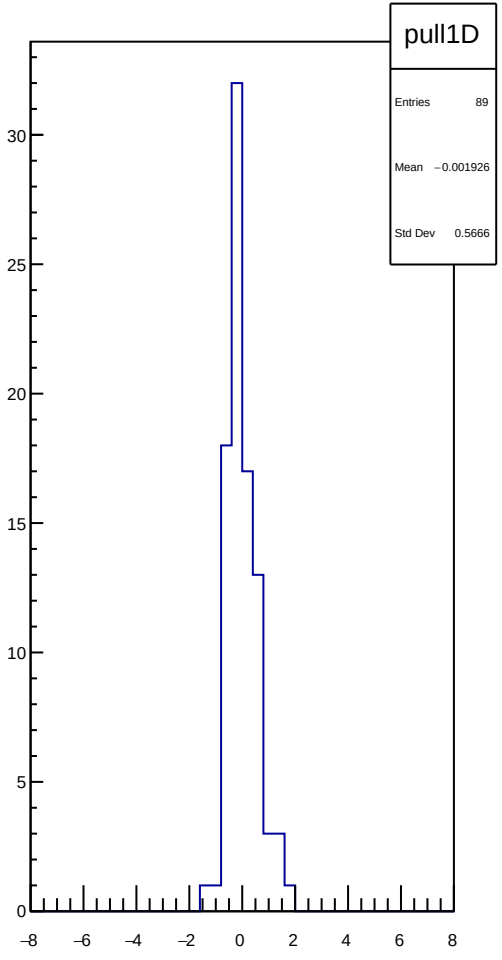

pull1D
Entries 89
Mean −0.01486
Std Dev 0.8865

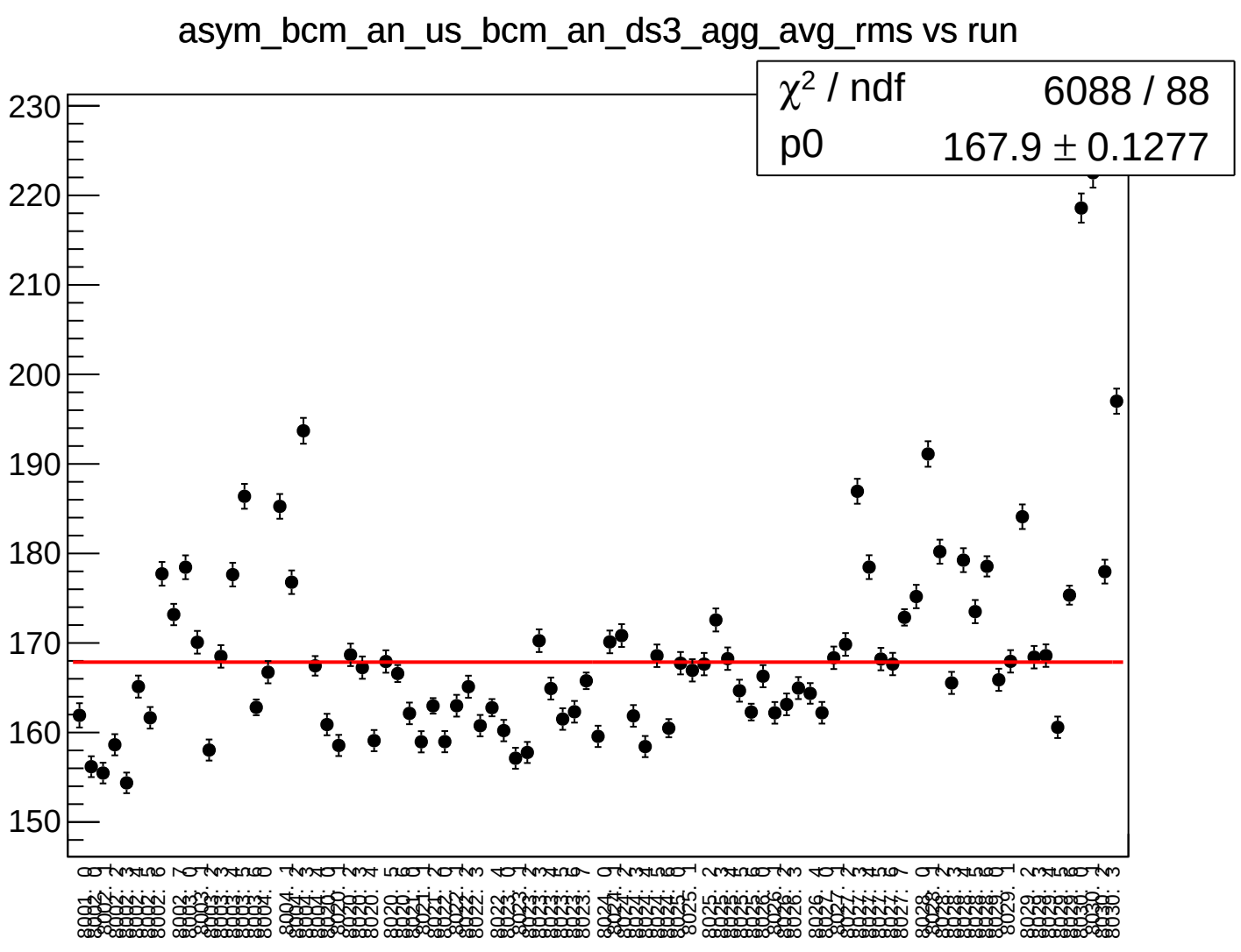

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 822 / 88
p0 21.06 ± 0.016
22.5
22
21.5
21
20.5
20

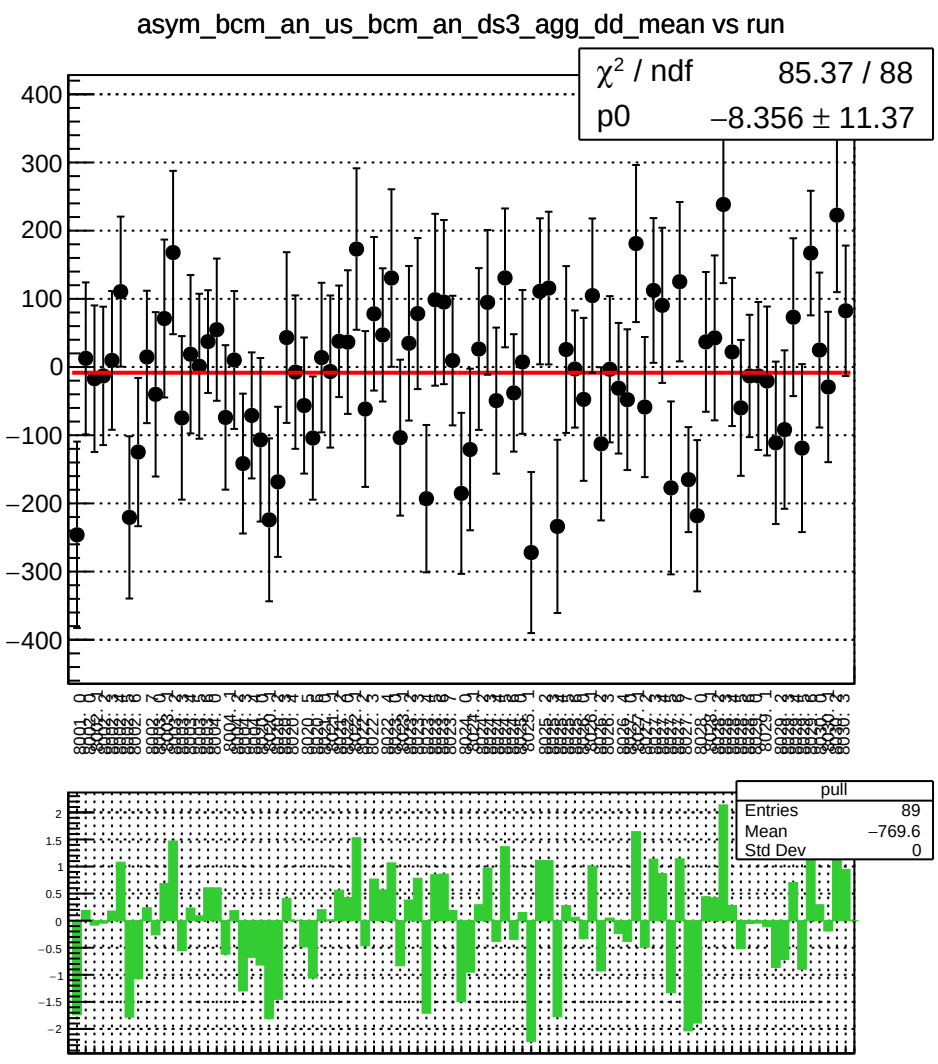

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 90.62 / 88
p0 −12.21± 11.53
pull
Entries 89
Mean −139.3
Std Dev 0
pull1D
Entries 89
Mean −0.01068
Std Dev 1.009

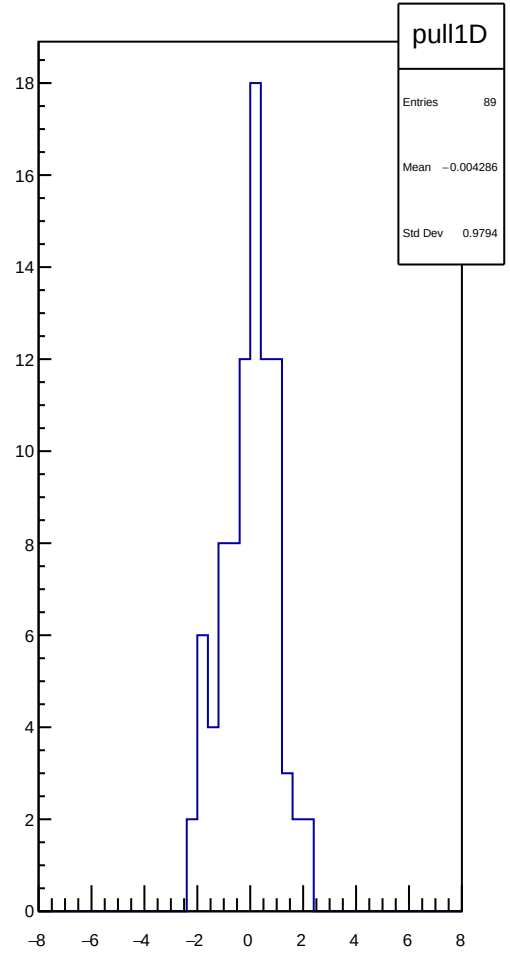

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 7629 / 88
p0 10.71 ± 0.008153
12.5
12
11.5
11
10.5
10
9.5

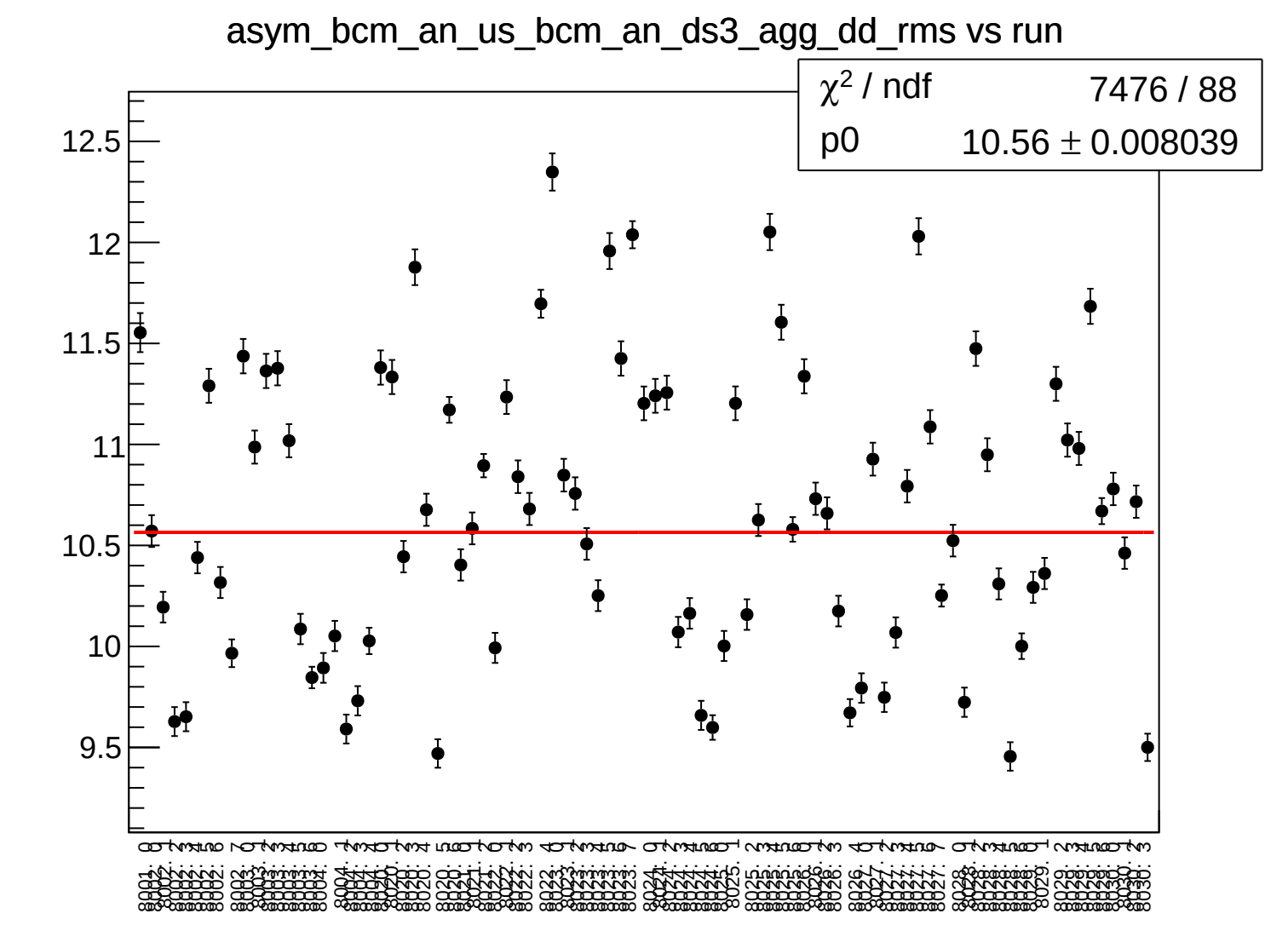

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 28.57 / 88
p0 540.1 ± 180.6
pull
Entries 89
Mean 12.21
Std Dev 142.8

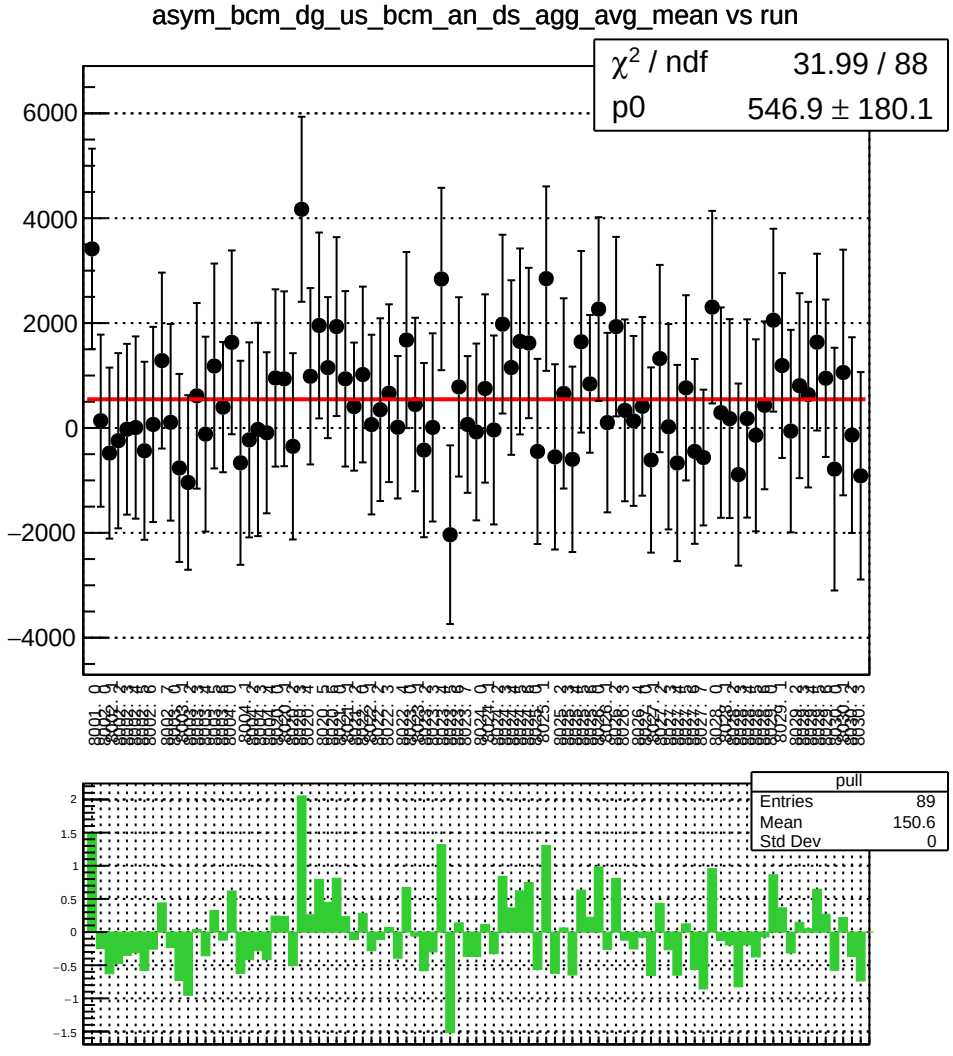

pull1D
Entries 89
Mean −0.001926
Std Dev 0.5666

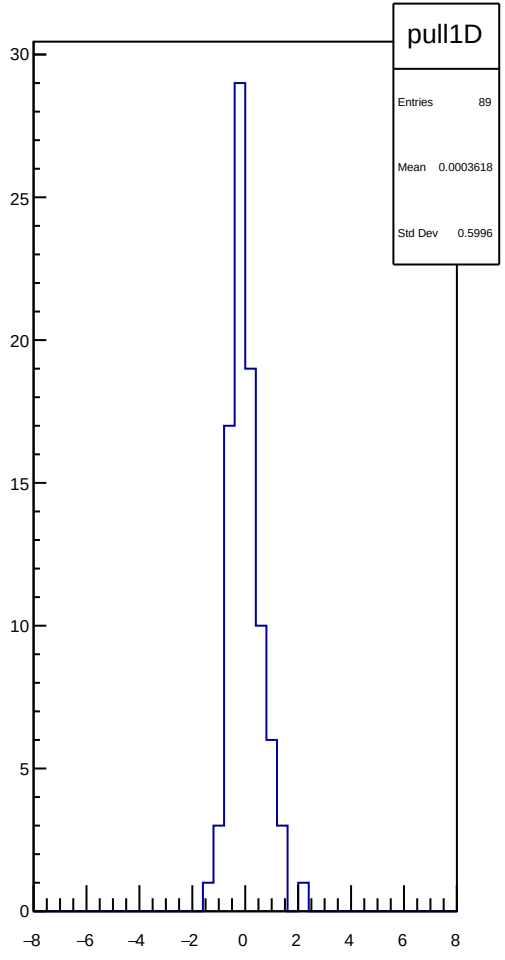

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 6088 / 88
p0 167.9 ± 0.1277
230
220
210
200
190
180
170
160
150

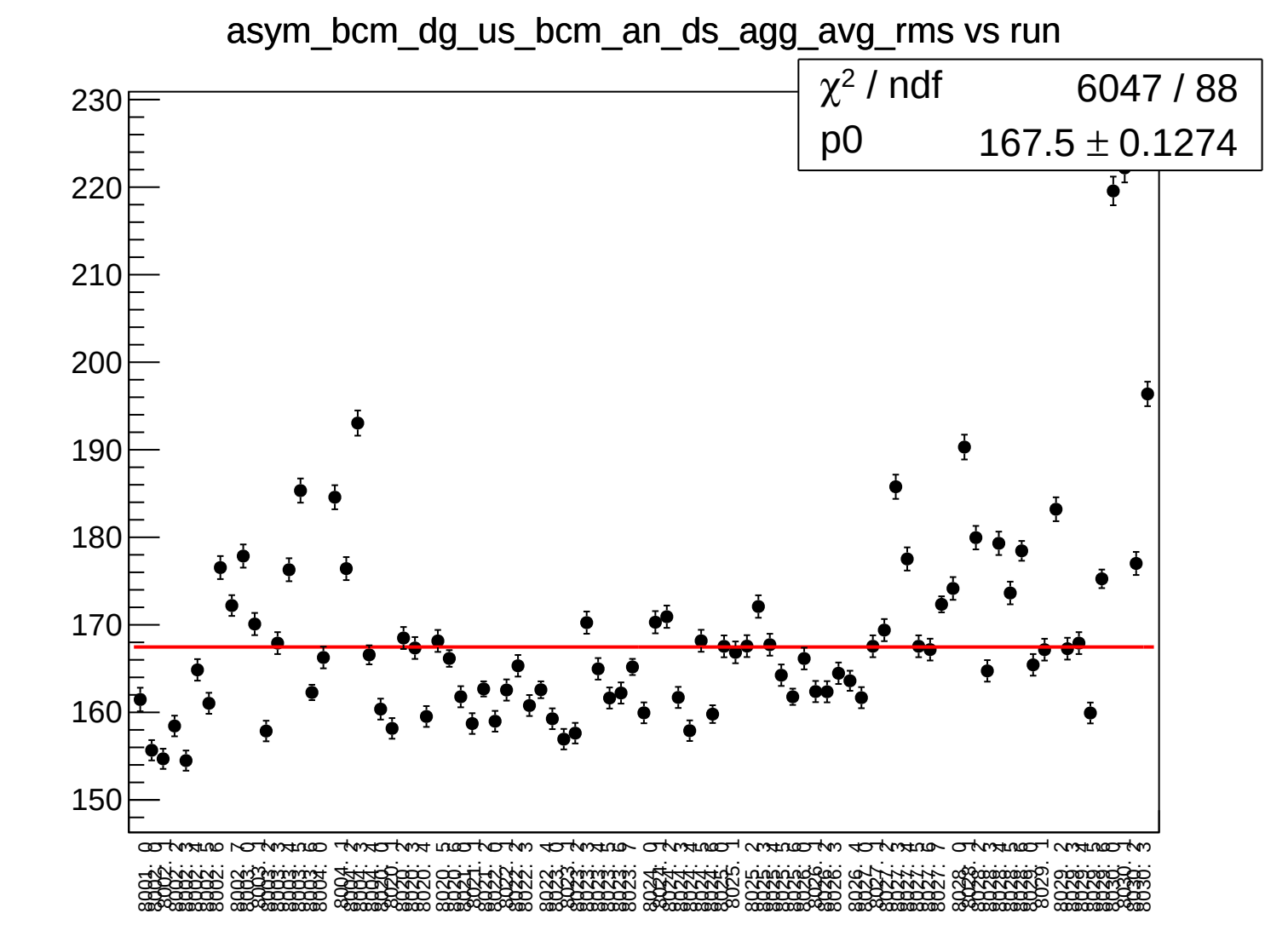

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 85.37 / 88
p0 −8.356 ± 11.37
pull
Entries 89
Mean −769.6
Std Dev 0

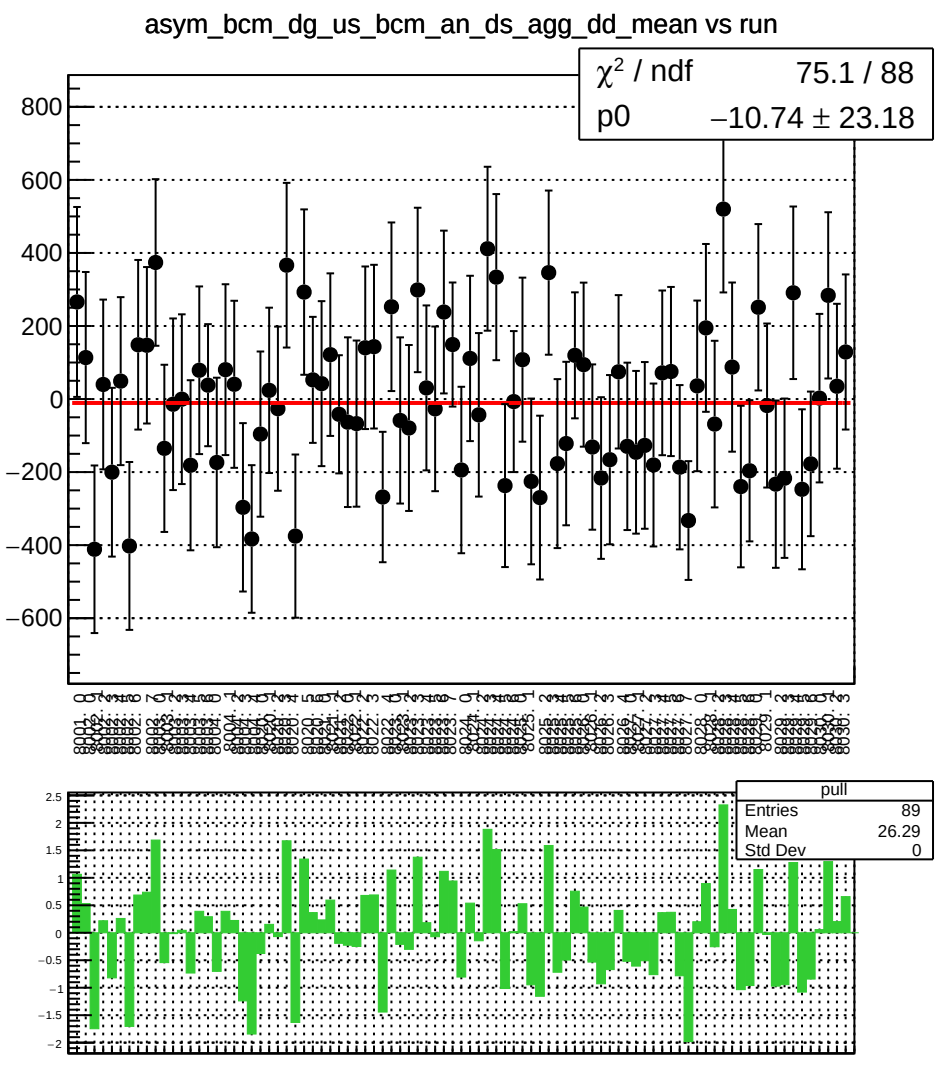

pull1D
Entries 89
Mean −0.004286
Std Dev 0.9794

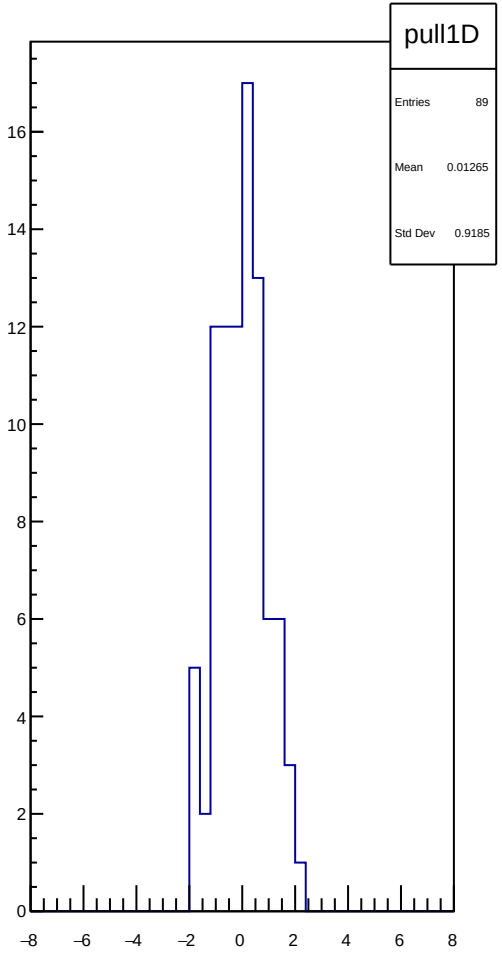

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 7476 / 88
p0 10.56 ± 0.008039
12.5
12
11.5
11
10.5
10
9.5

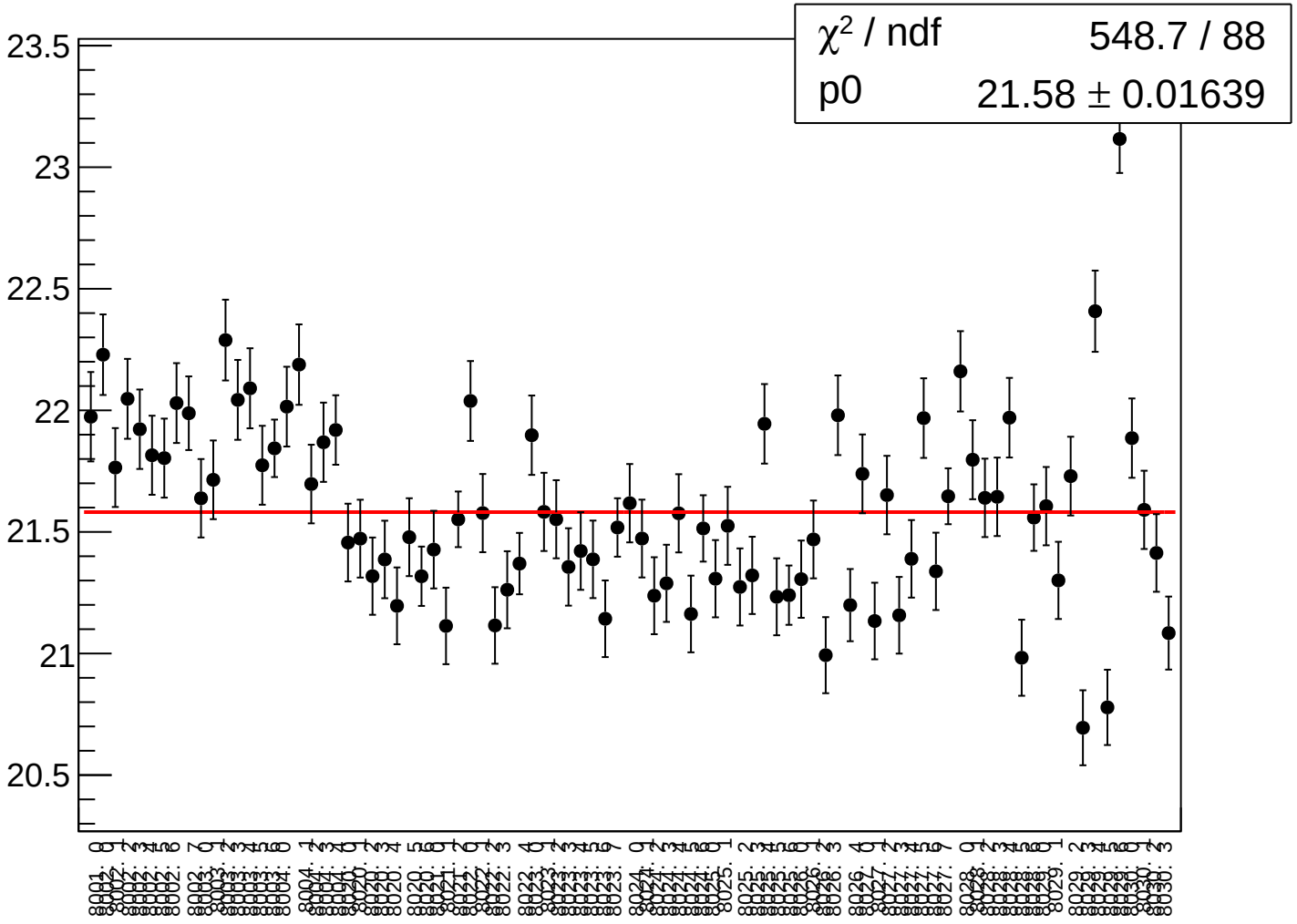

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 31.99 / 88
p0 546.9 ± 180.1
6000
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 150.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

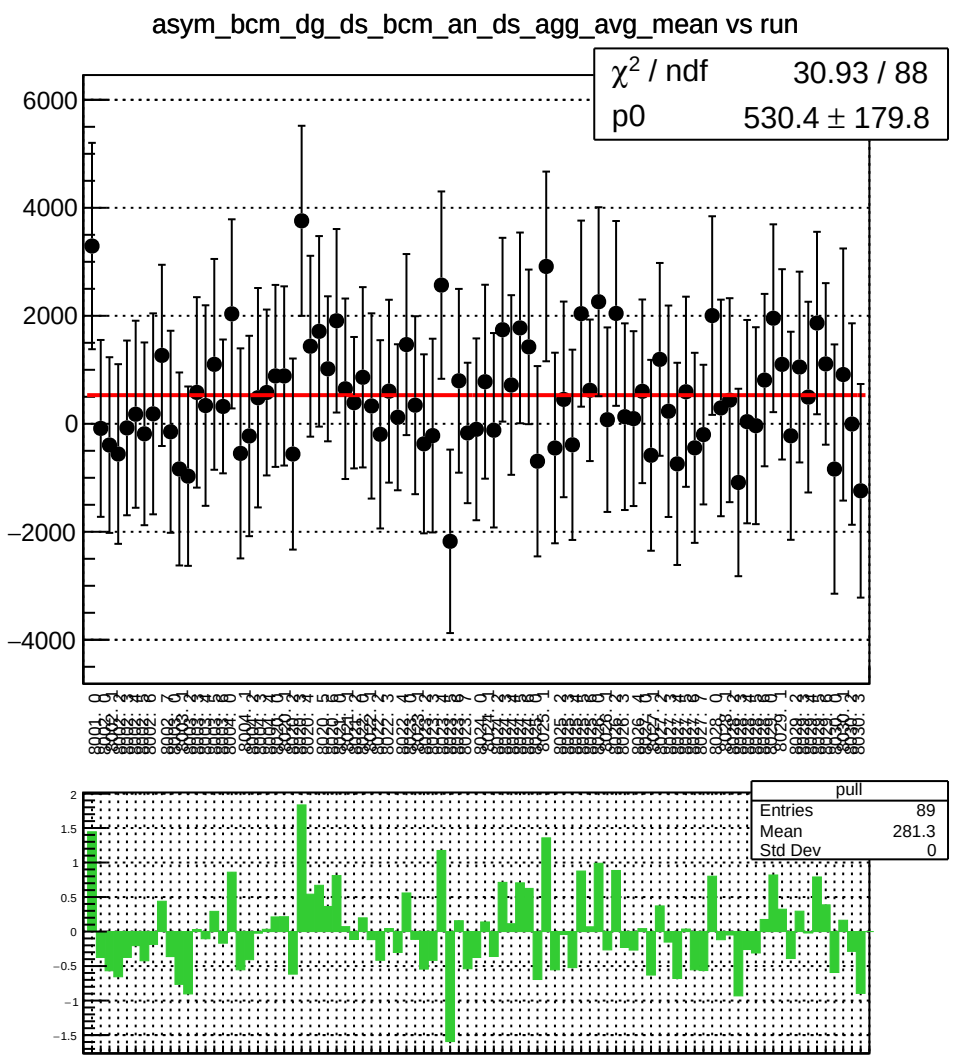

pull1D
Entries 89
Mean 0.0003618
Std Dev 0.5996
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

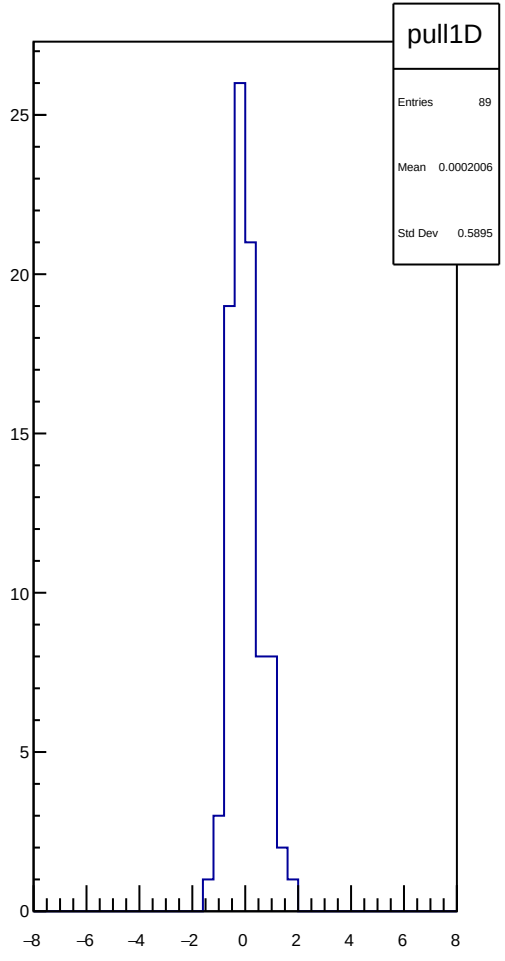

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 6047 / 88
p0 167.5 ± 0.1274
230
220
210
200
190
180
170
160
150

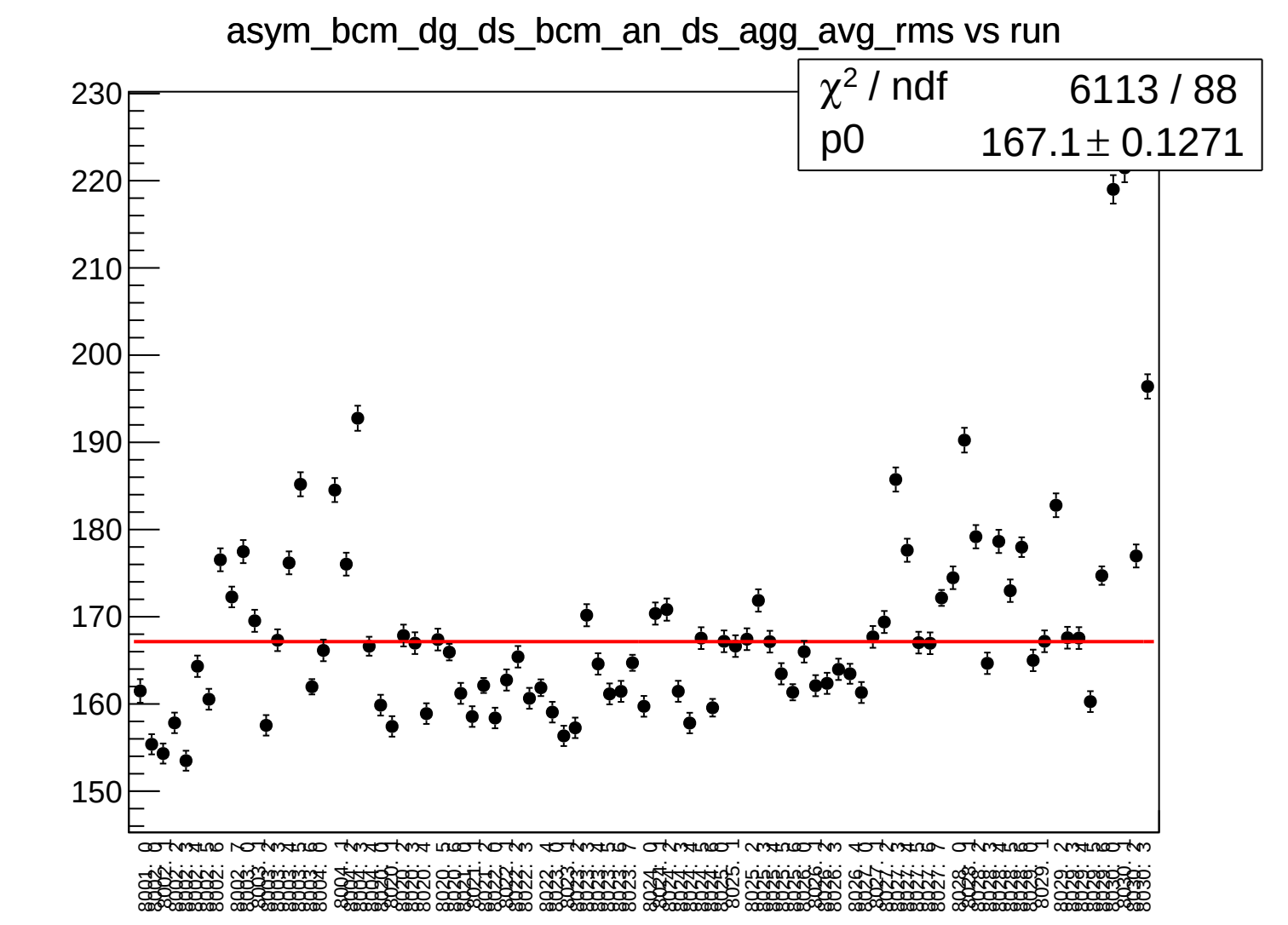

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 75.1 / 88
p0 −10.74 ± 23.18
pull
Entries 89
Mean 26.29
Std Dev 0

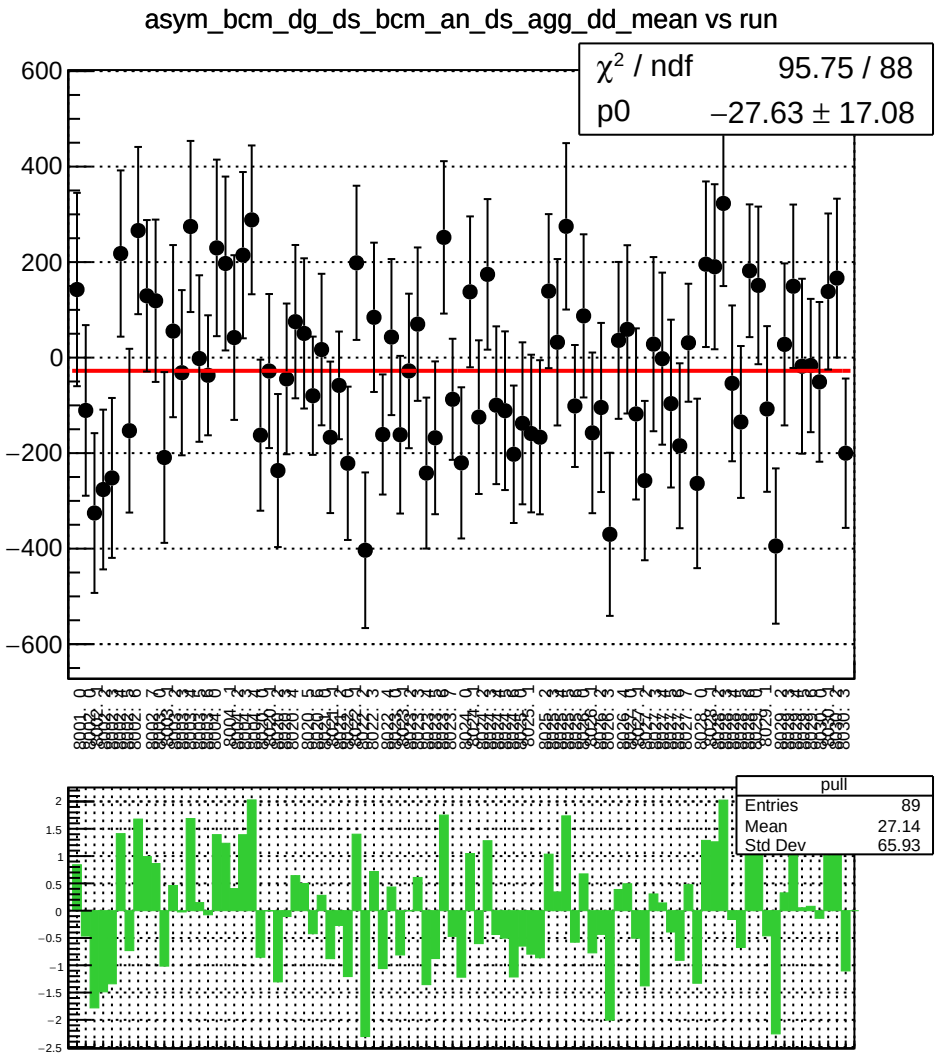

pull1D
Entries 89
Mean 0.01265
Std Dev 0.9185

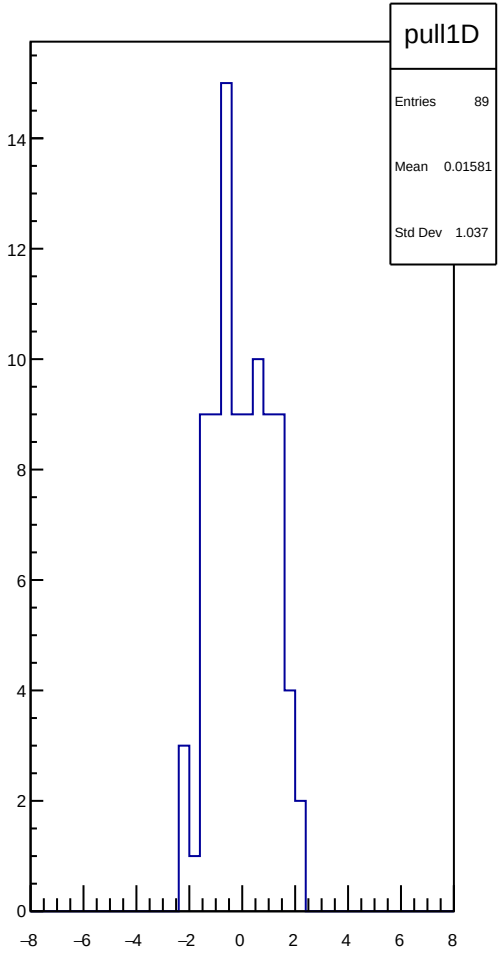

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 548.7 / 88
p0 21.58 ± 0.01639
23.5
23
22.5
22
21.5
21
20.5

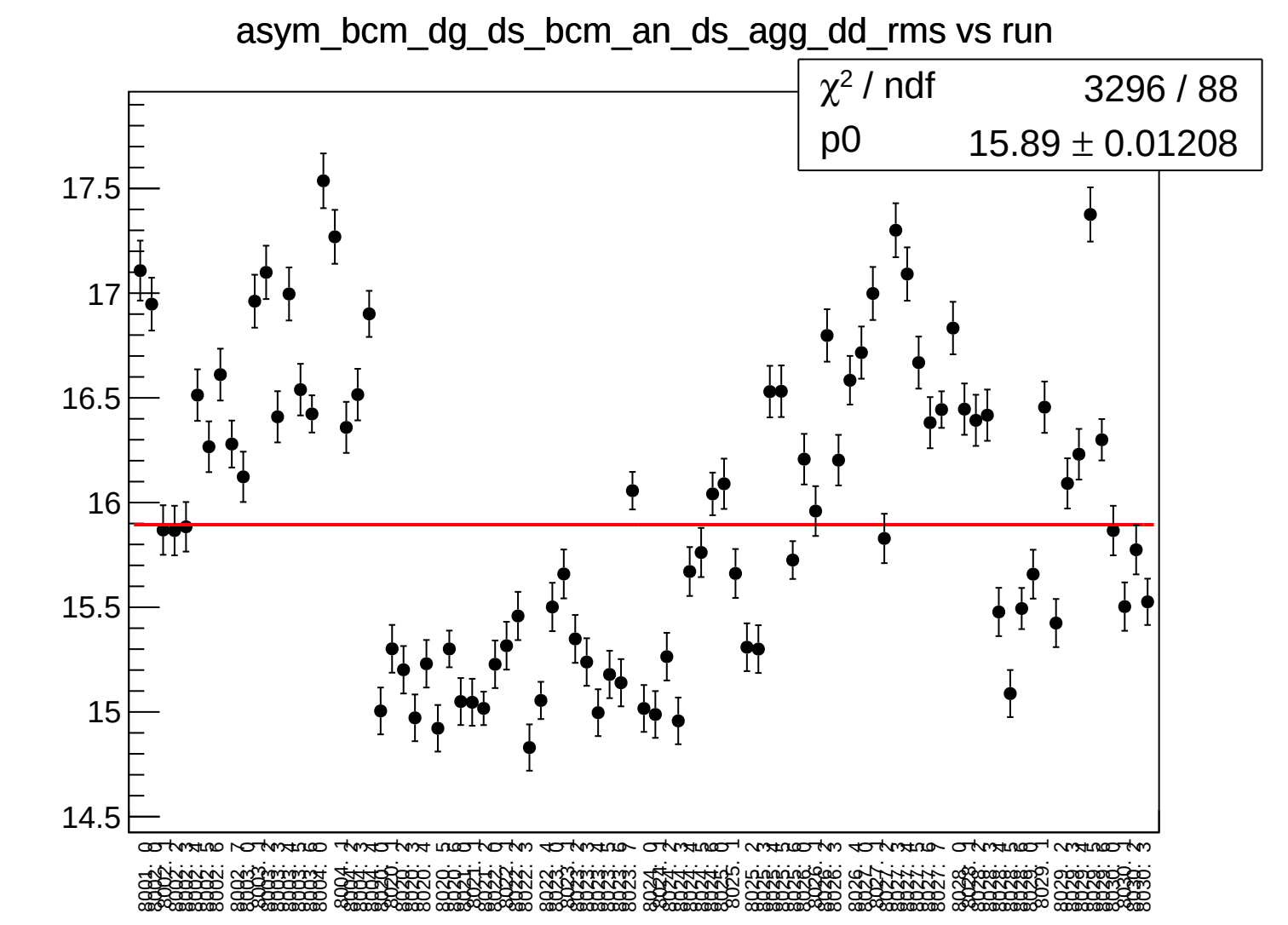

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 30.93 / 88
p0 530.4 ± 179.8
6000
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 281.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

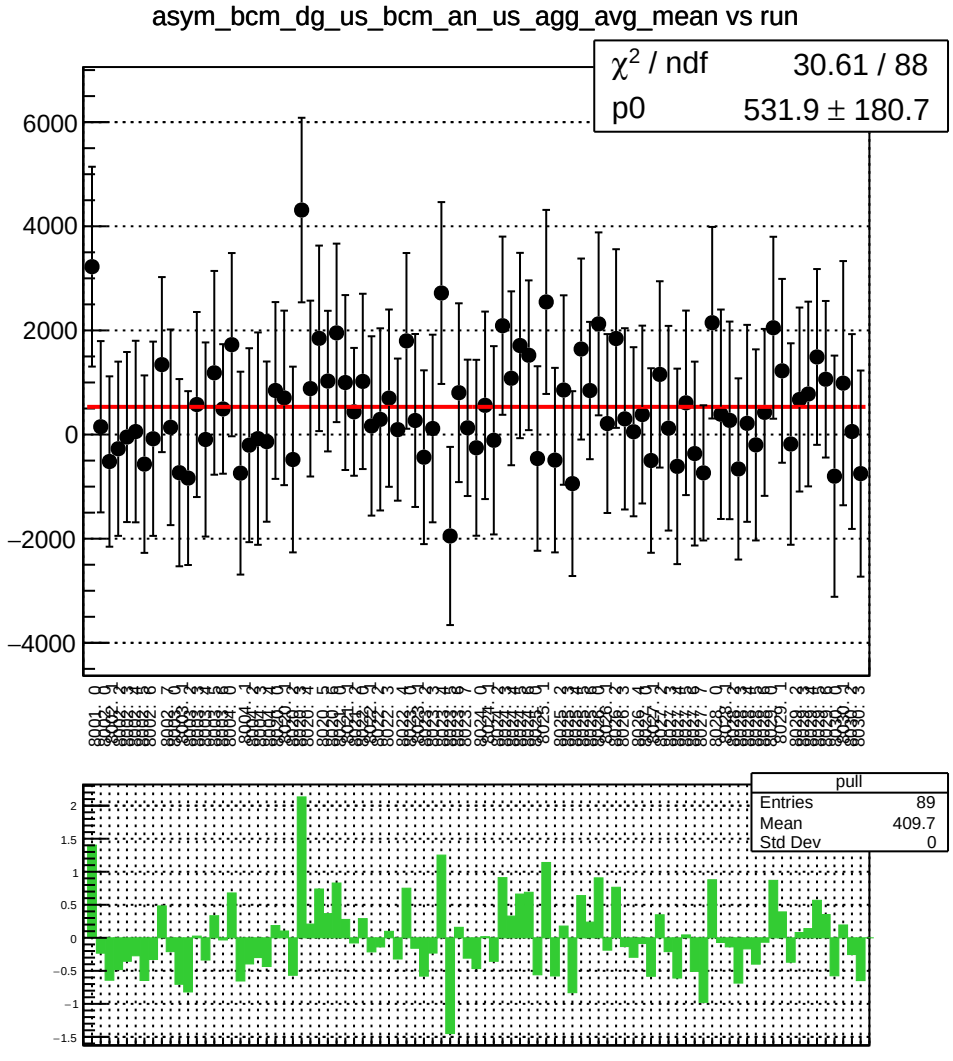

pull1D
Entries 89
Mean 0.0002006
Std Dev 0.5895
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

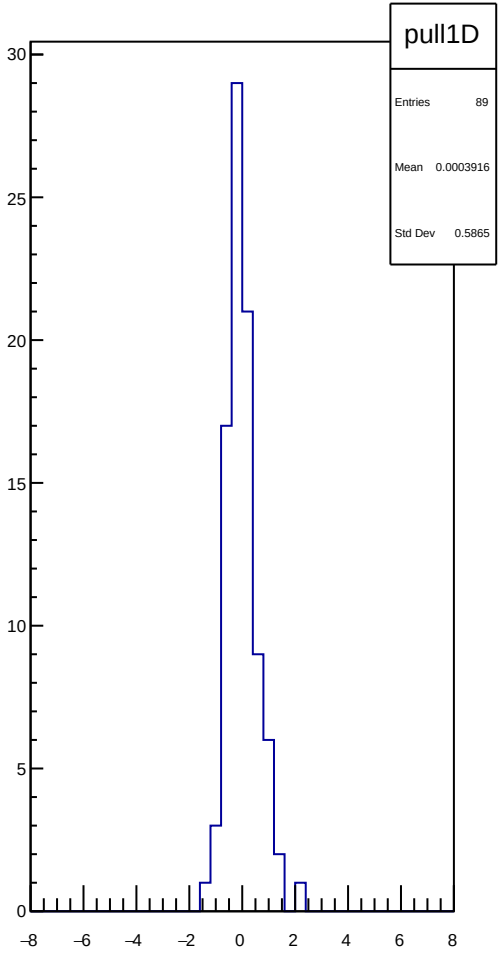

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 6113 / 88
p0 167.1 ± 0.1271
230
220
210
200
190
180
170
160
150

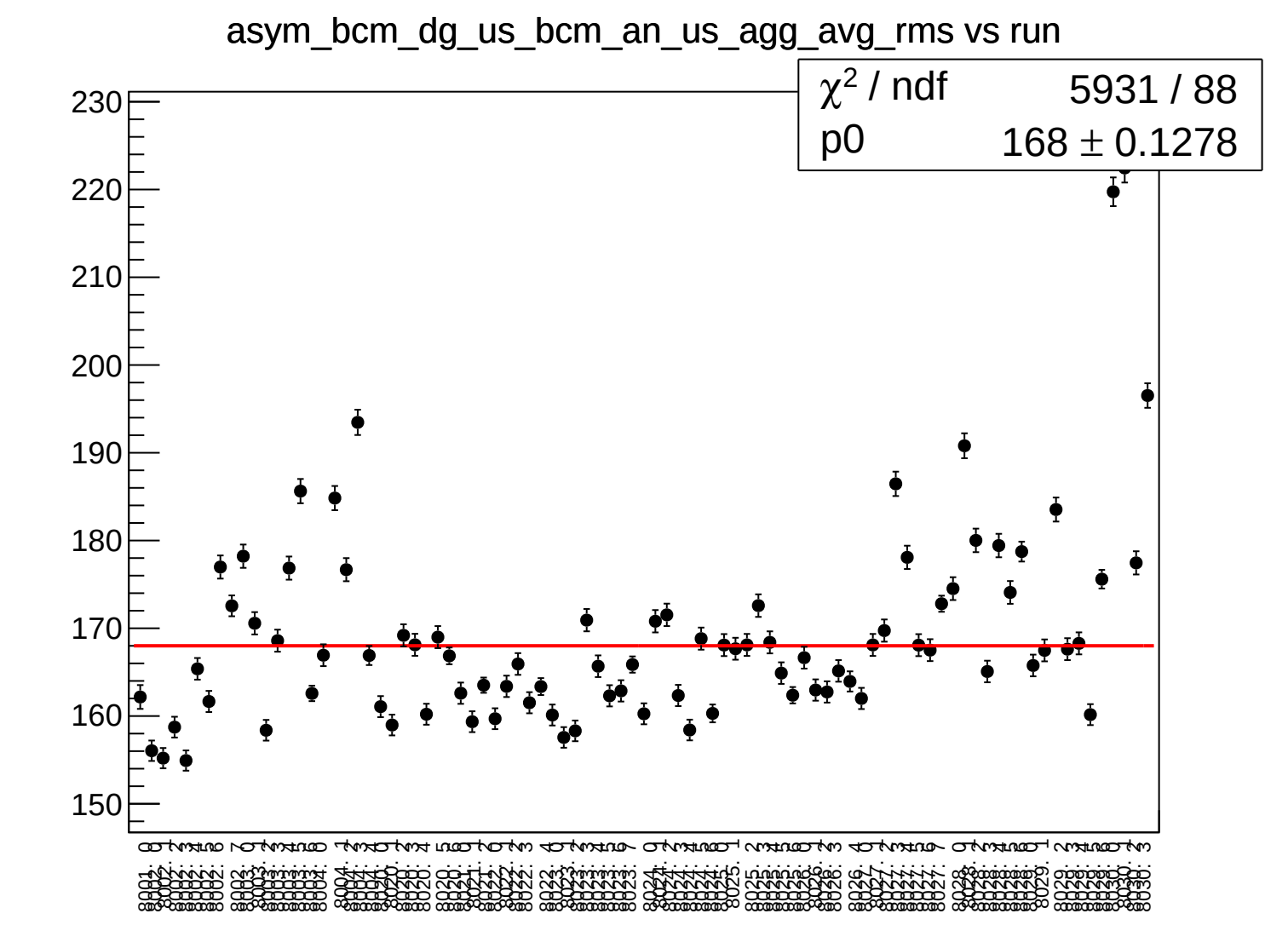

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 95.75 / 88
p0 −27.63 ± 17.08
pull
Entries 89
Mean 27.14
Std Dev 65.93

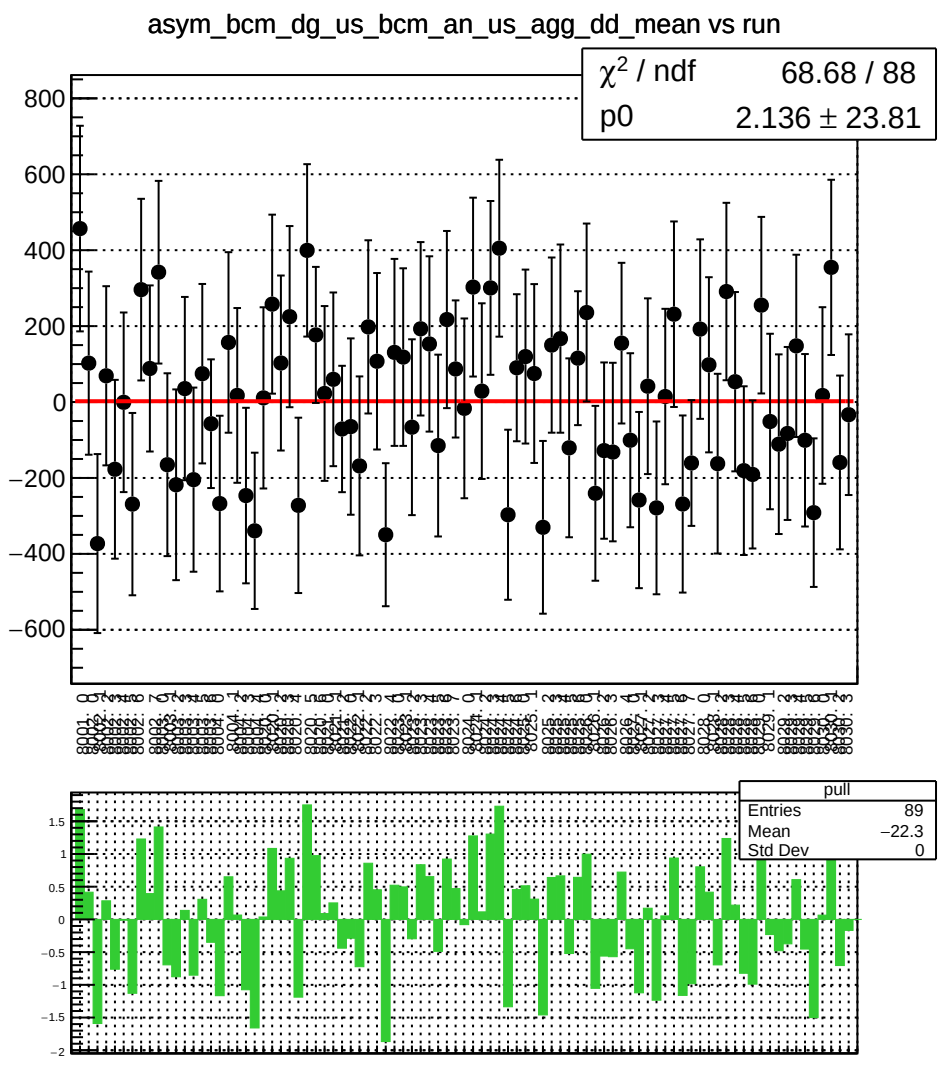

pull1D
Entries 89
Mean 0.01581
Std Dev 1.037

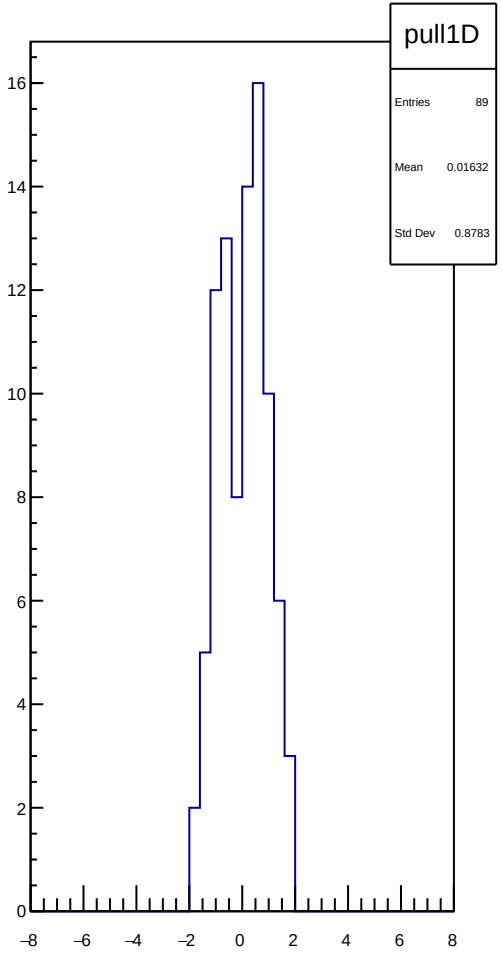

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 3296 / 88
p0 15.89 ± 0.01208
17.5
17
16.5
16
15.5
15
14.5

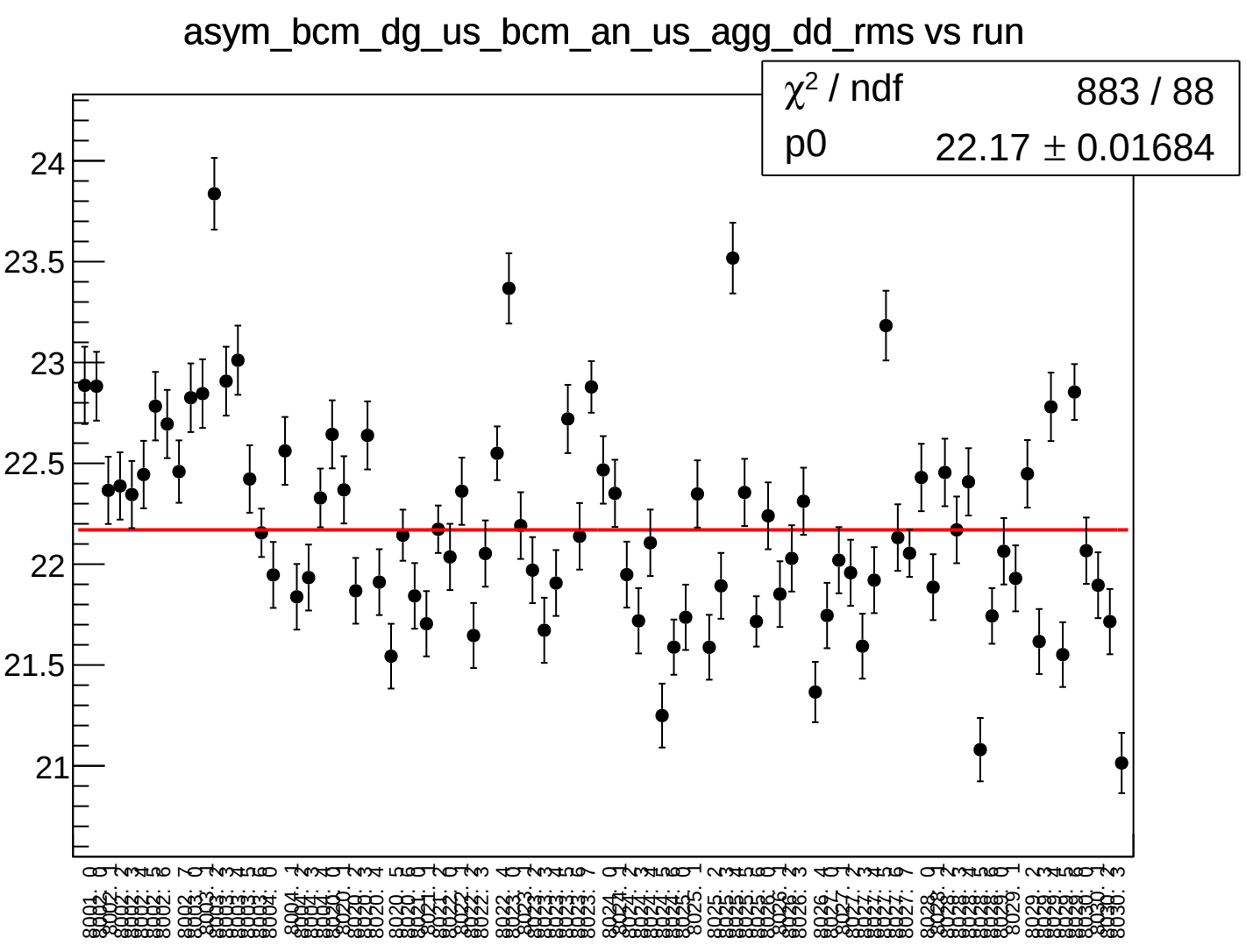

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 30.61 / 88
p0 531.9 ± 180.7
pull
Entries 89
Mean 409.7
Std Dev 0

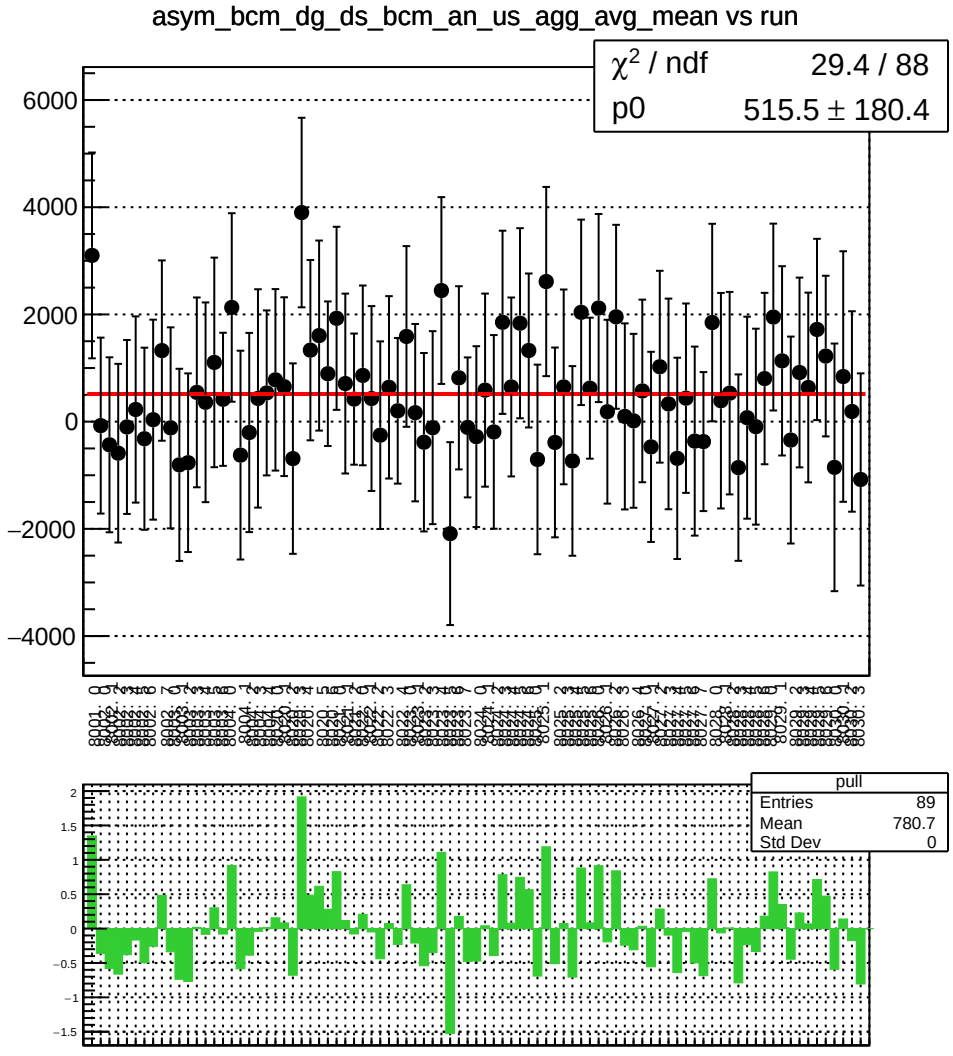

pull1D
Entries 89
Mean 0.0003916
Std Dev 0.5865

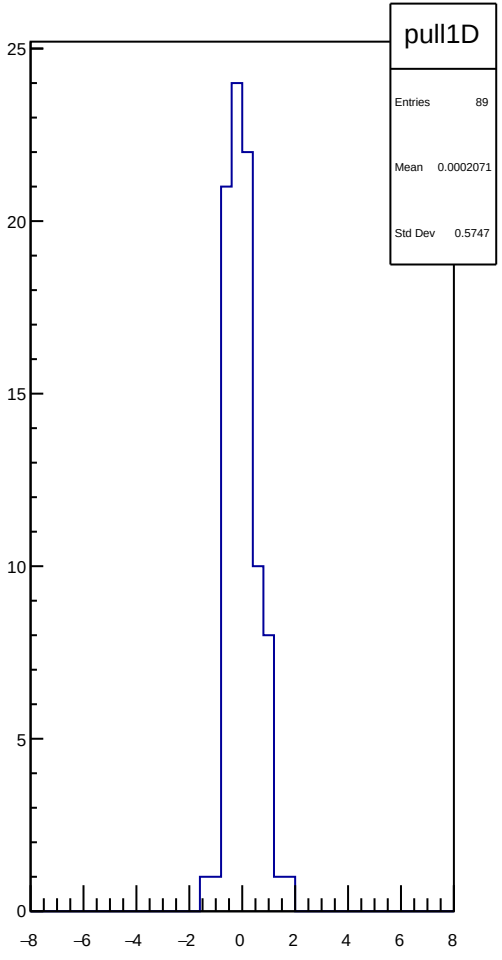

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 5931 / 88
p0 168 ± 0.1278
230
220
210
200
190
180
170
160
150

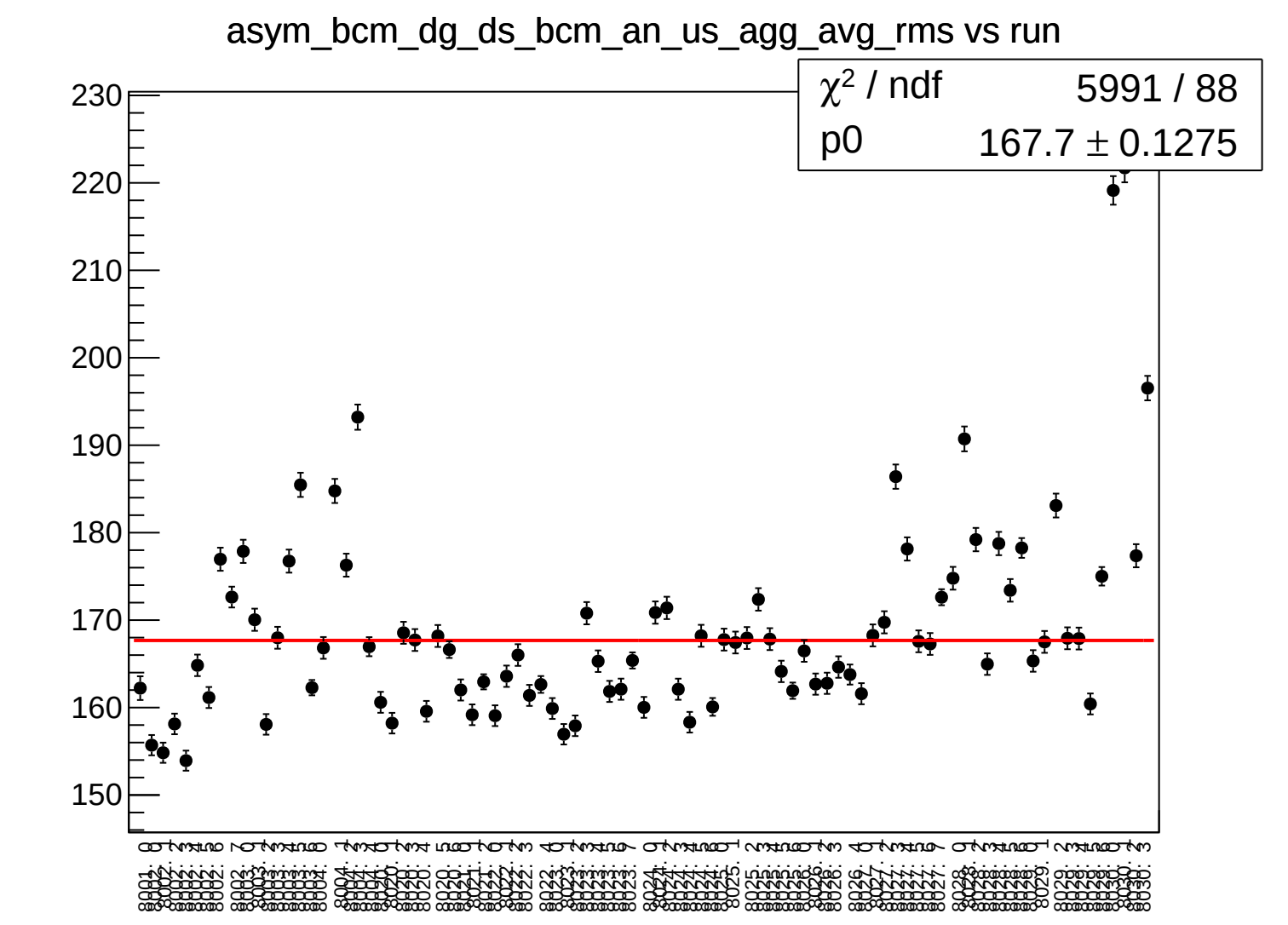

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 68.68 / 88
p0 2.136 ± 23.81
pull
Entries 89
Mean −22.3
Std Dev 0

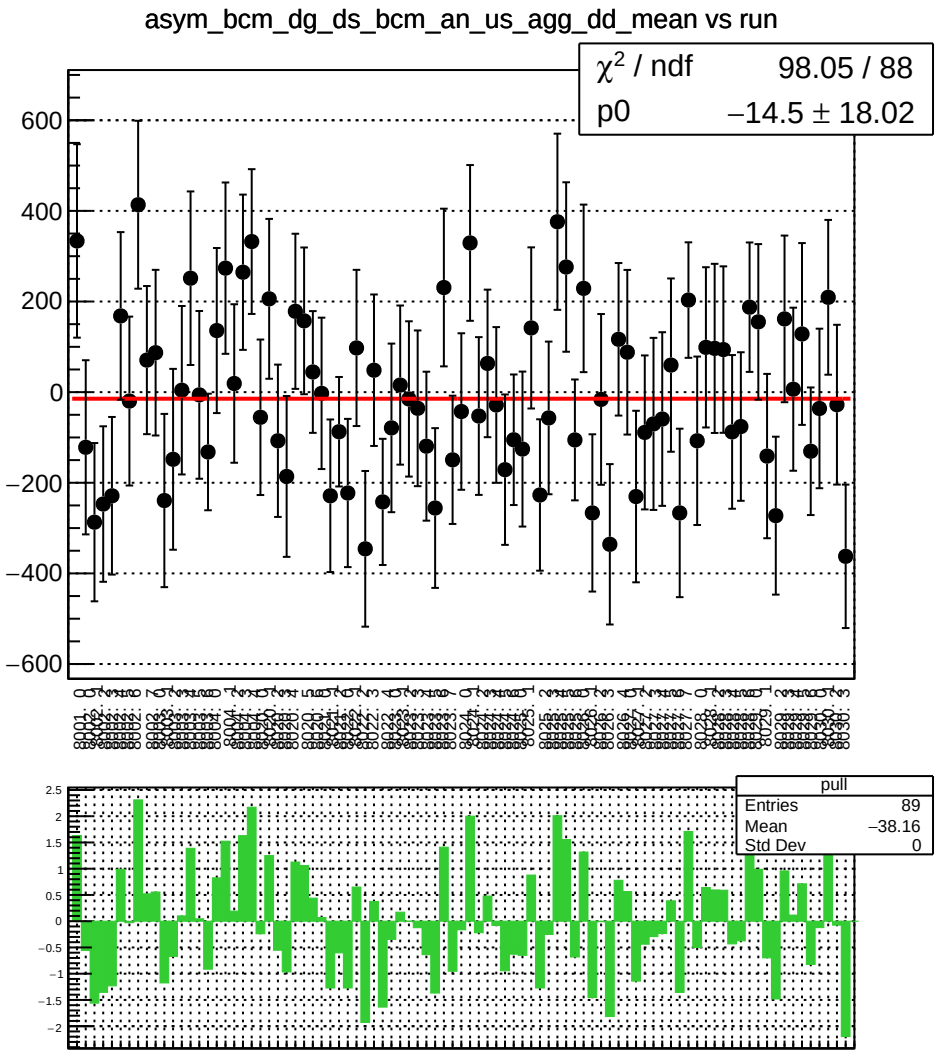

pull1D
Entries 89
Mean 0.01632
Std Dev 0.8783

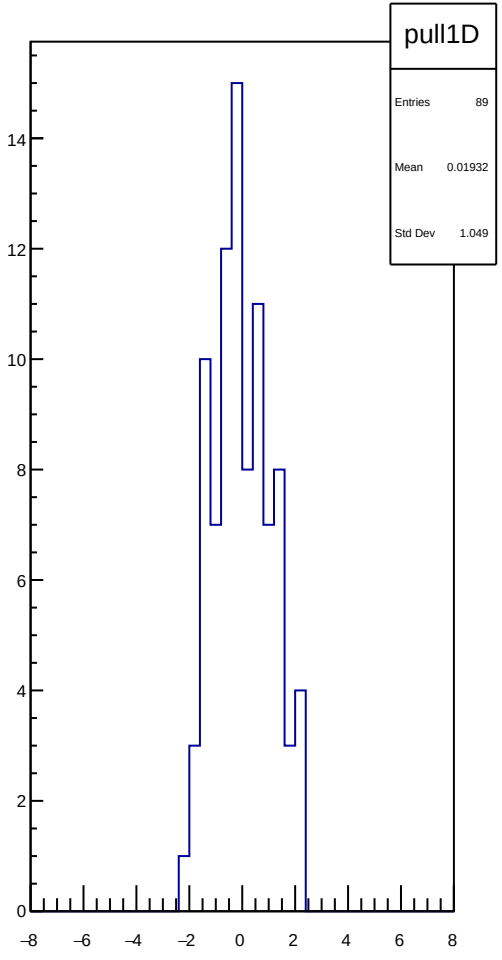

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 883 / 88
p0 22.17 ± 0.01684
24
23.5
23
22.5
22
21.5
21

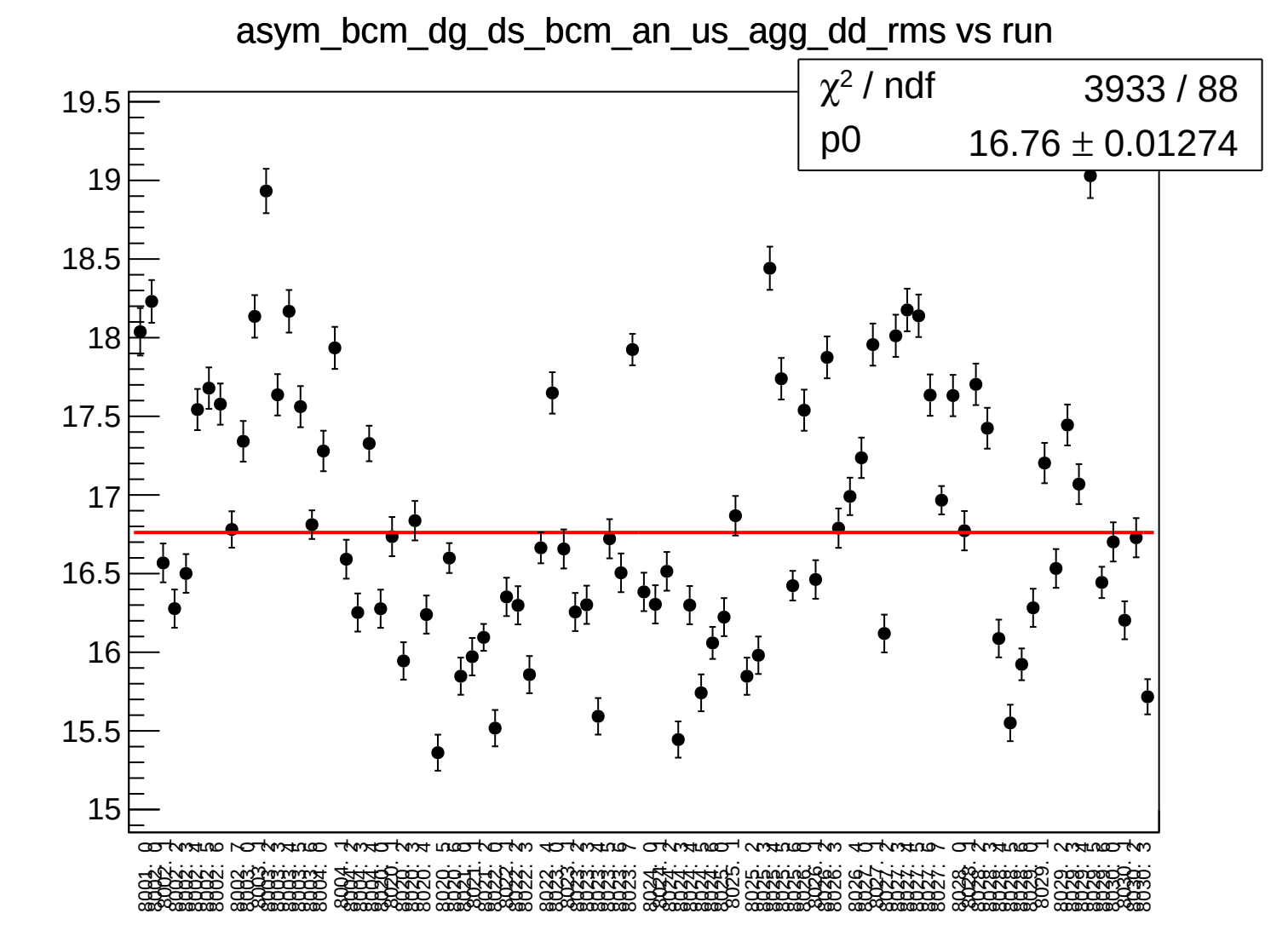

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 29.4 / 88
p0 515.5 ± 180.4
pull
Entries 89
Mean 780.7
Std Dev 0

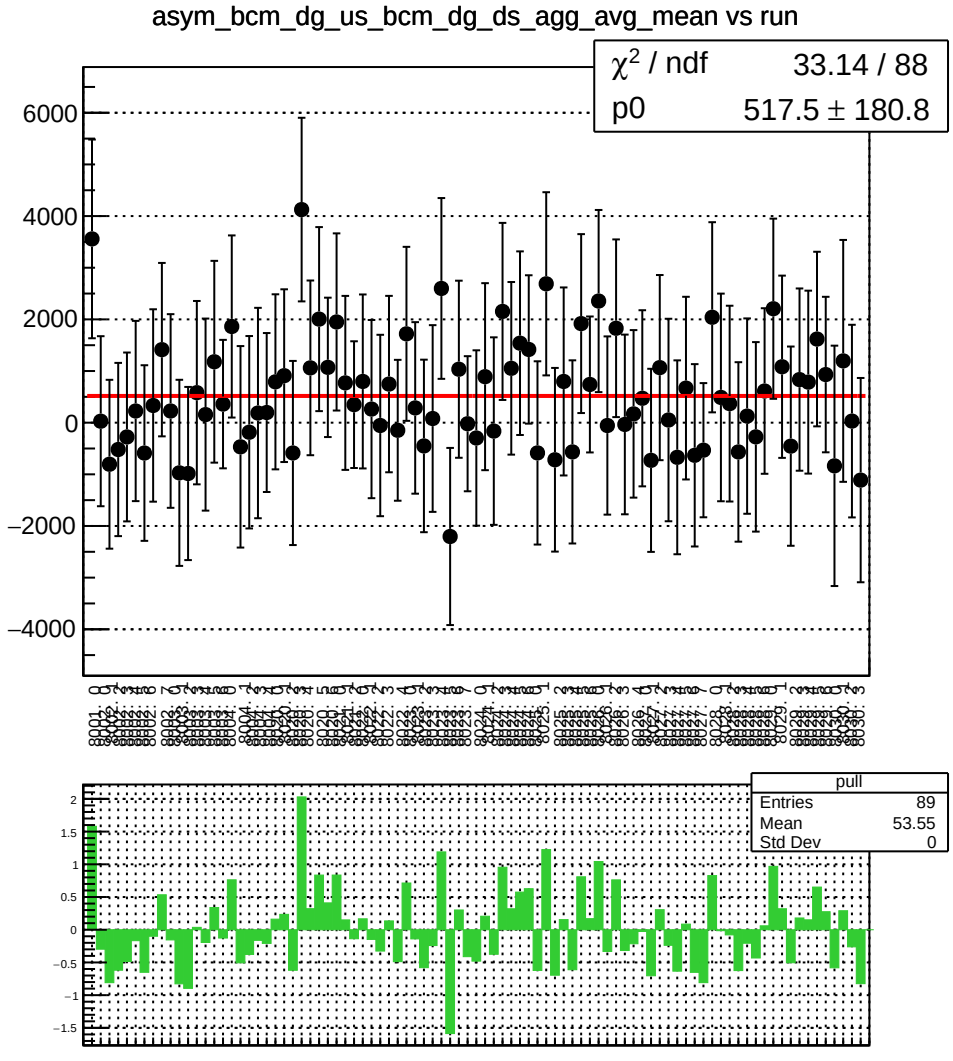

pull1D
Entries 89
Mean 0.0002071
Std Dev 0.5747

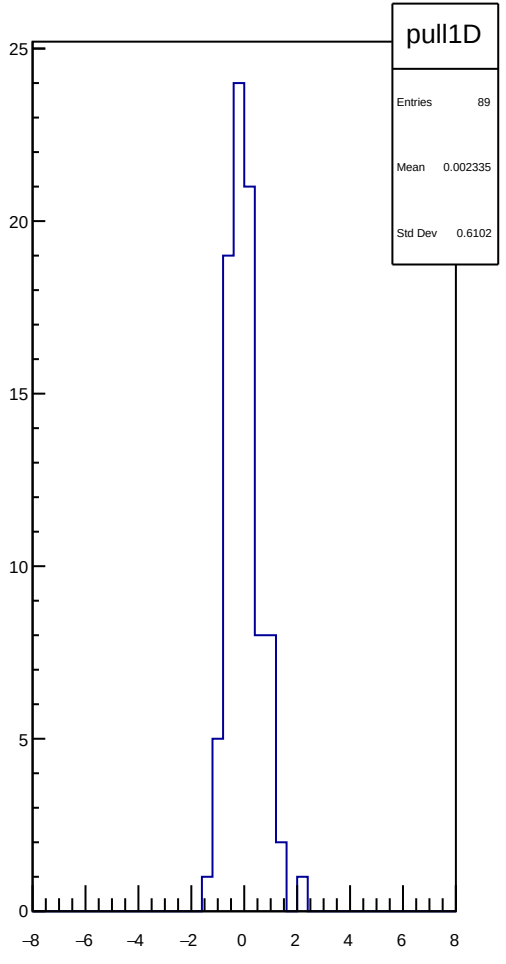

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ^2 / ndf 5991 / 88
p0 167.7 ± 0.1275
230
220
210
200
190
180
170
160
150

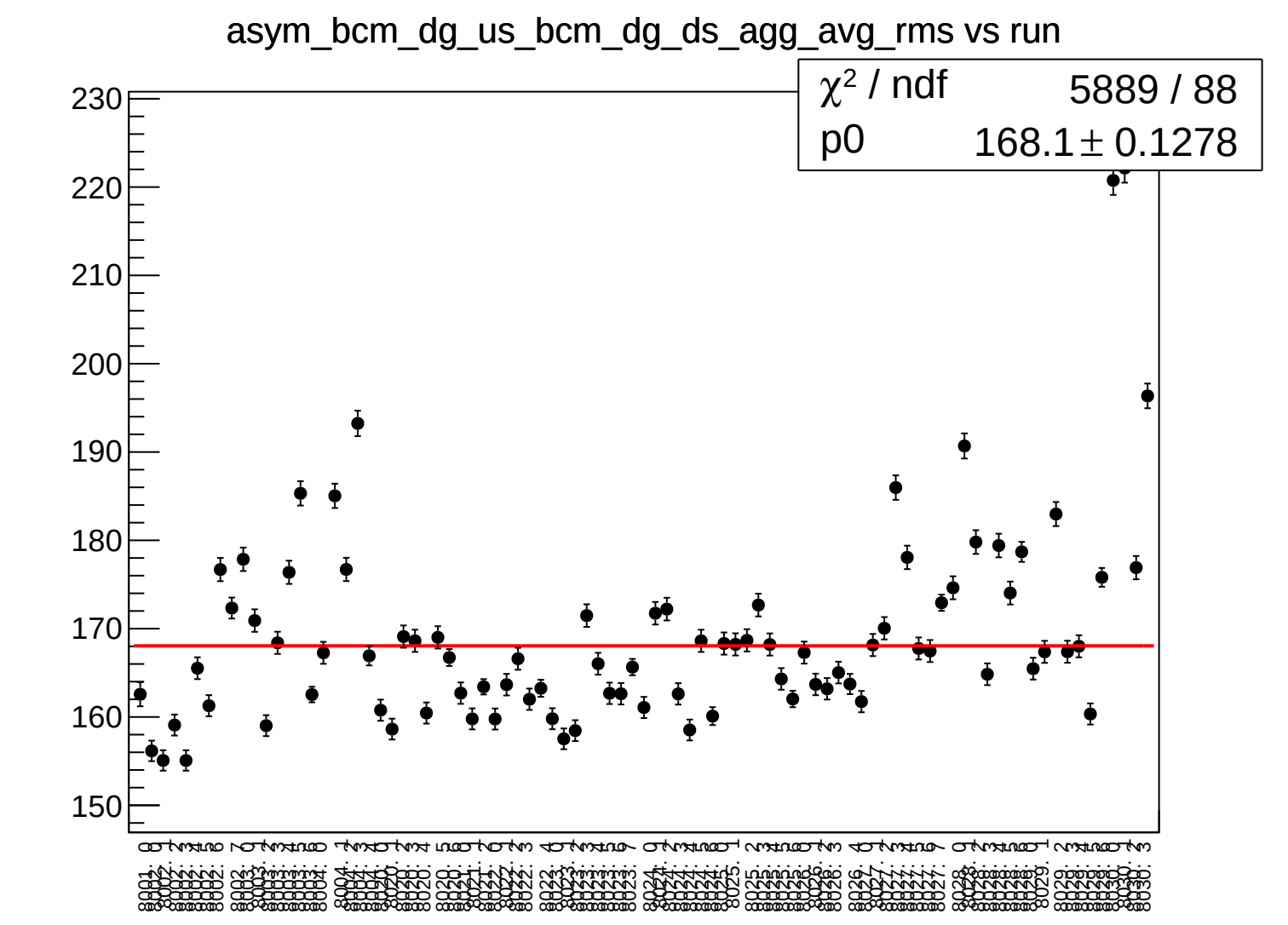

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 98.05 / 88
p0 −14.5 ± 18.02
pull
Entries 89
Mean −38.16
Std Dev 0

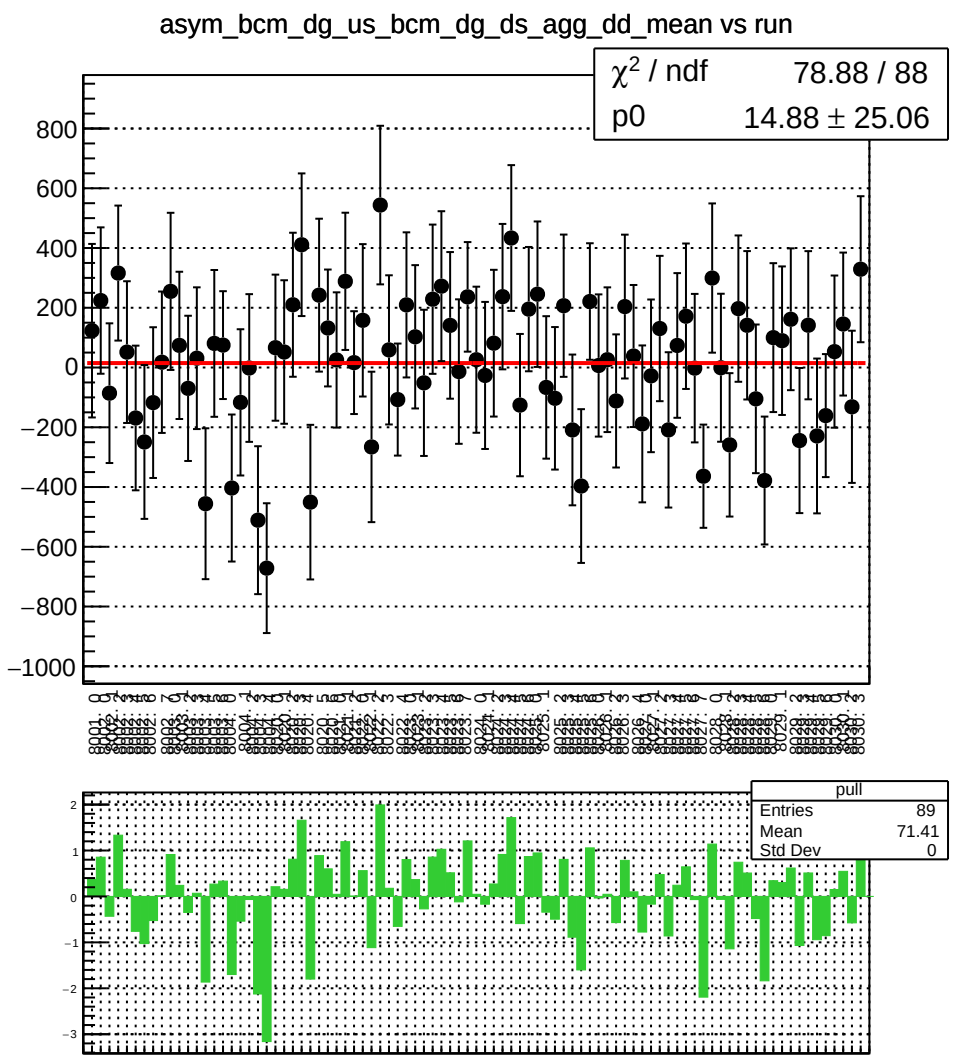

pull1D
Entries 89
Mean 0.01932
Std Dev 1.049

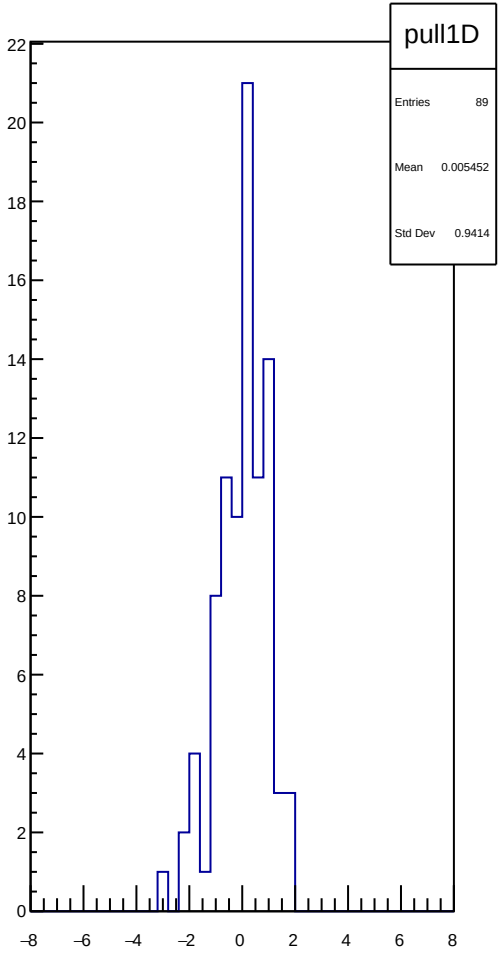

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 3933 / 88
p0 16.76 ± 0.01274
19.5
19
18.5
18
17.5
17
16.5
16
15.5
15

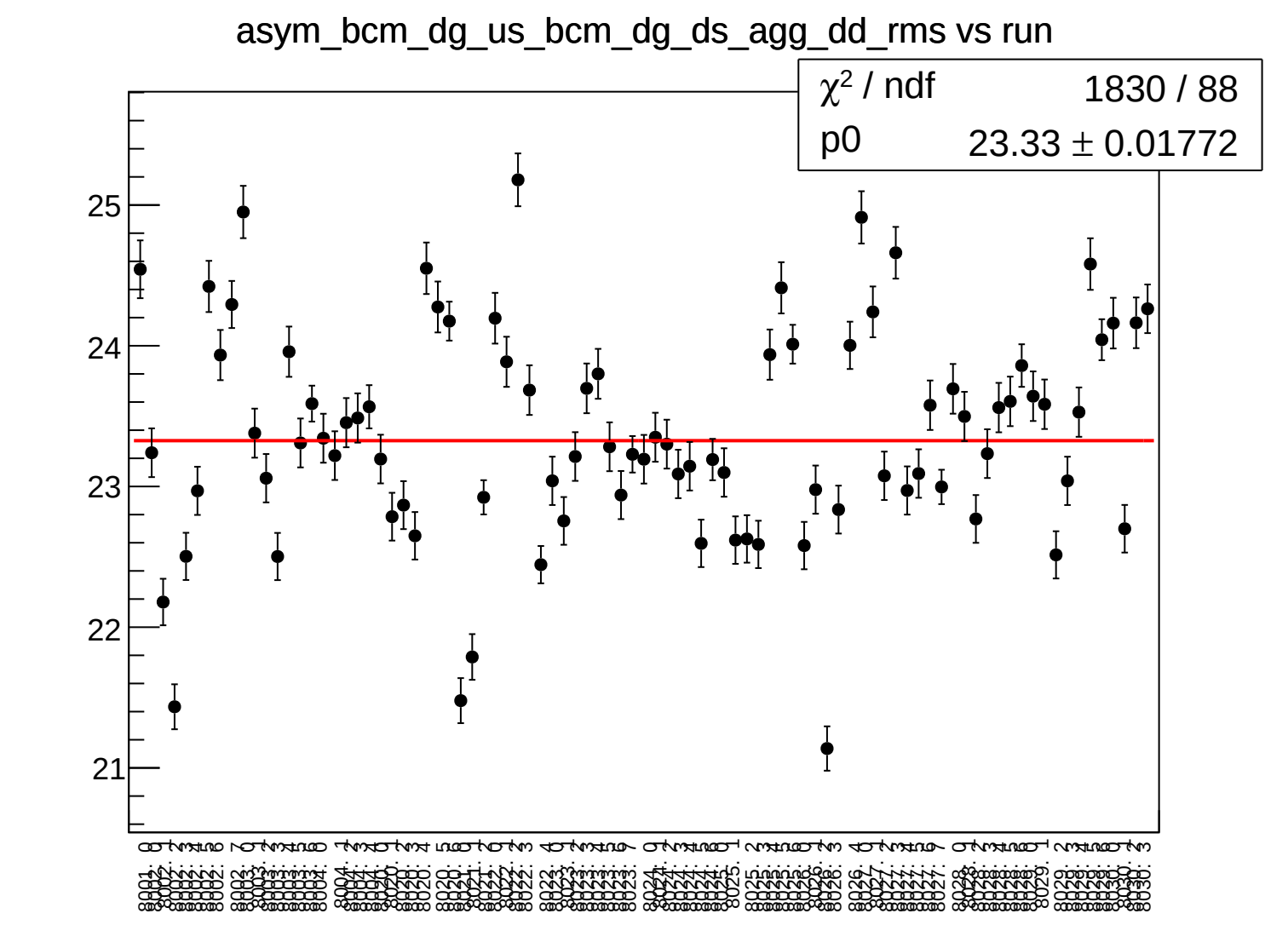

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 33.14 / 88
p0 517.5 ± 180.8
6000
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 53.55
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

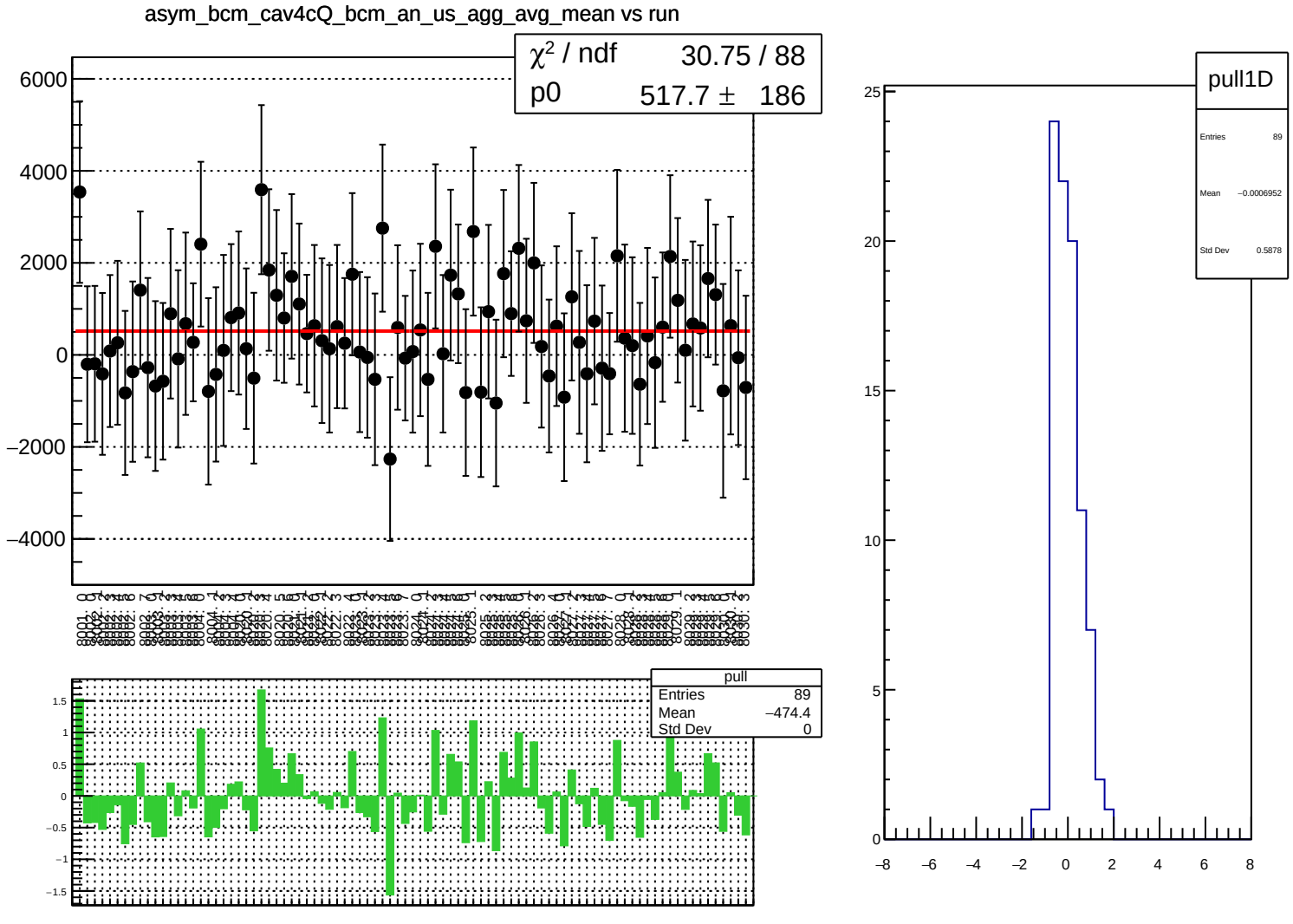

pull1D
Entries 89
Mean 0.002335
Std Dev 0.6102
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

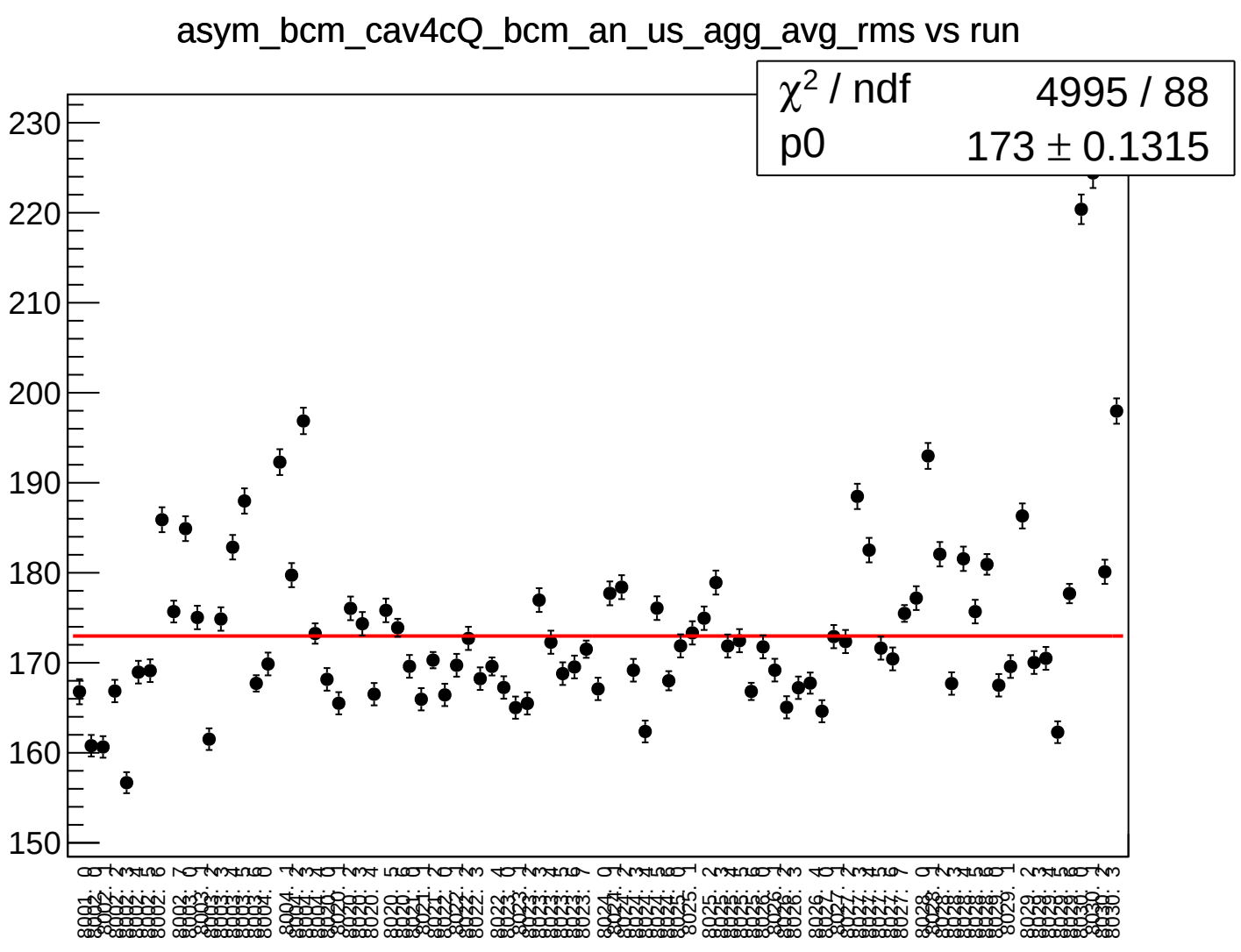

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 5889 / 88
p0 168.1 ± 0.1278
230
220
210
200
190
180
170
160
150

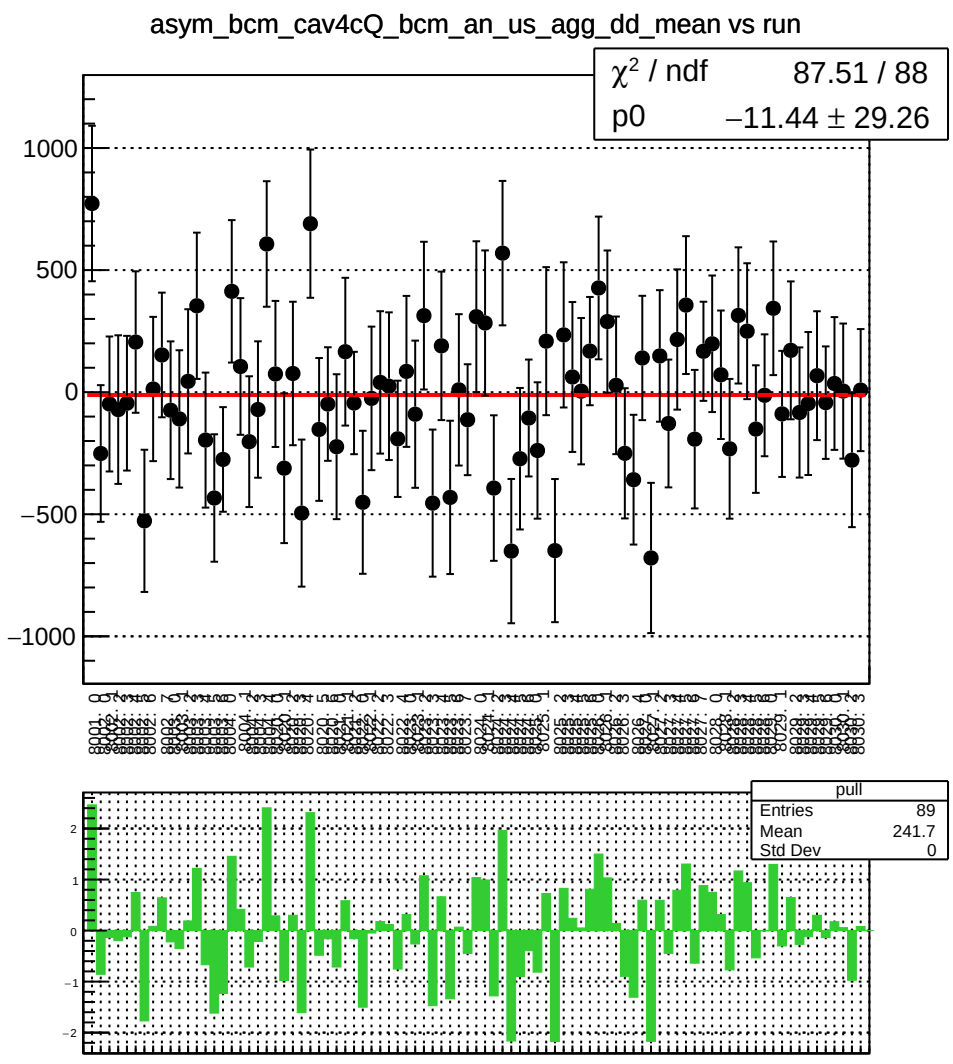

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 78.88 / 88
p0 14.88 ± 25.06
pull
Entries 89
Mean 71.41
Std Dev 0

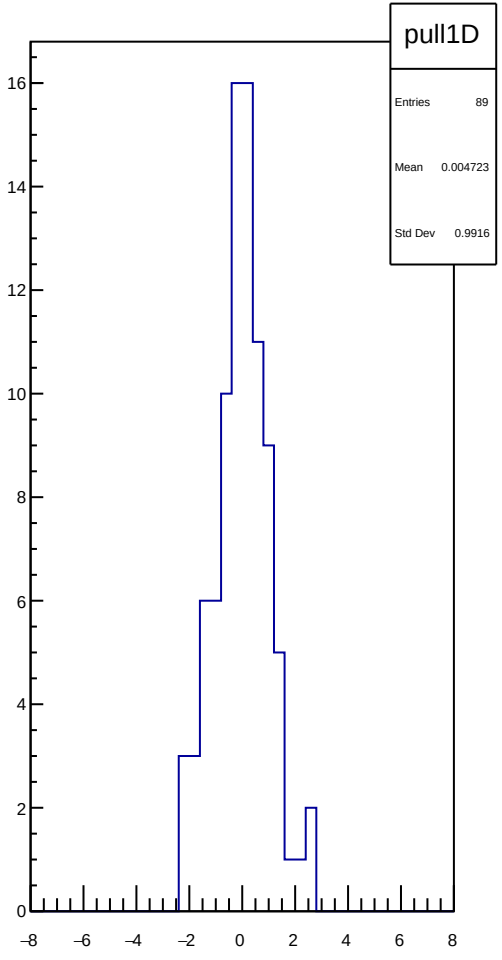

pull1D
Entries 89
Mean 0.005452
Std Dev 0.9414

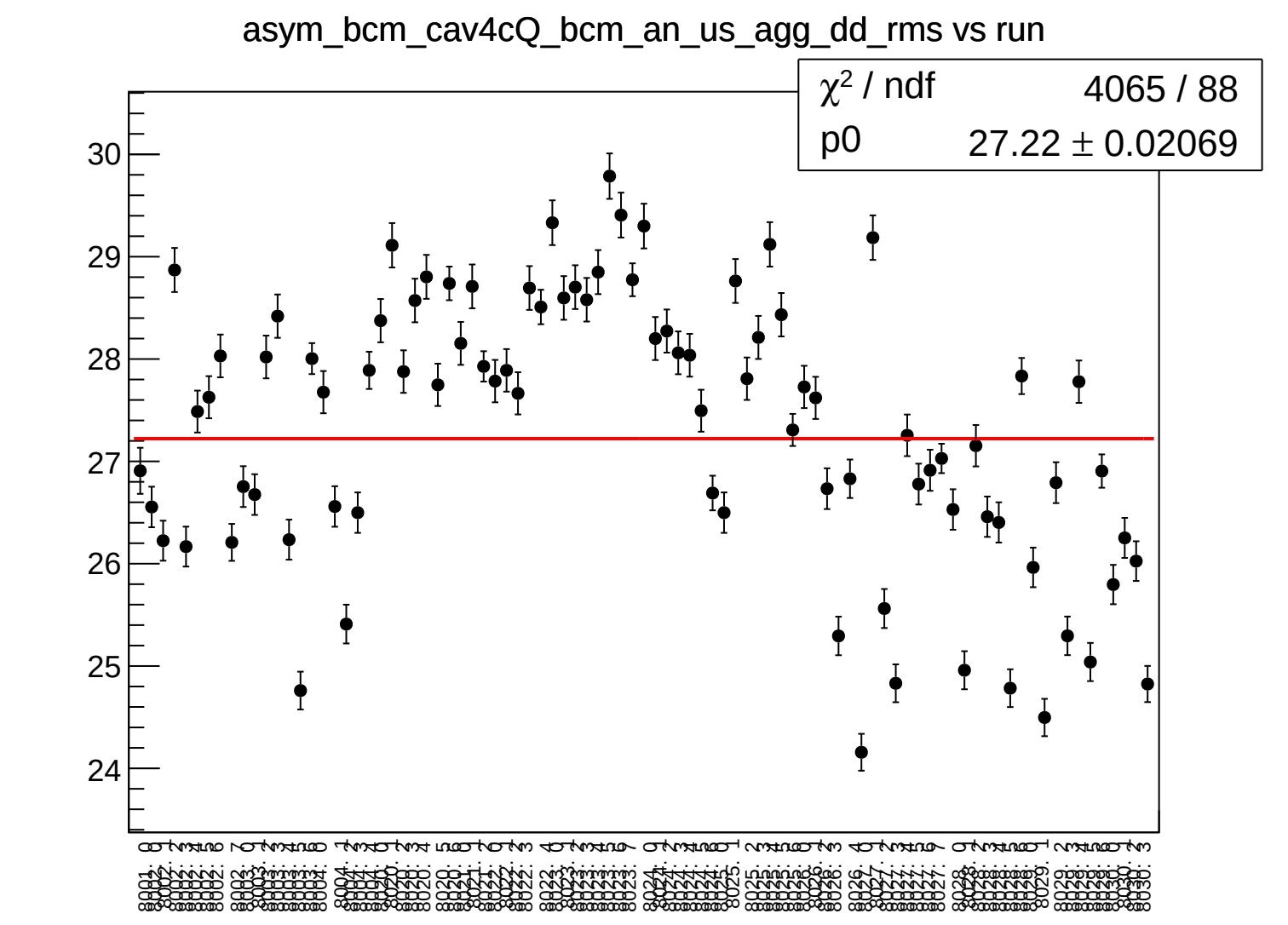

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1830 / 88
p0 23.33 ± 0.01772
25
24
23
22
21

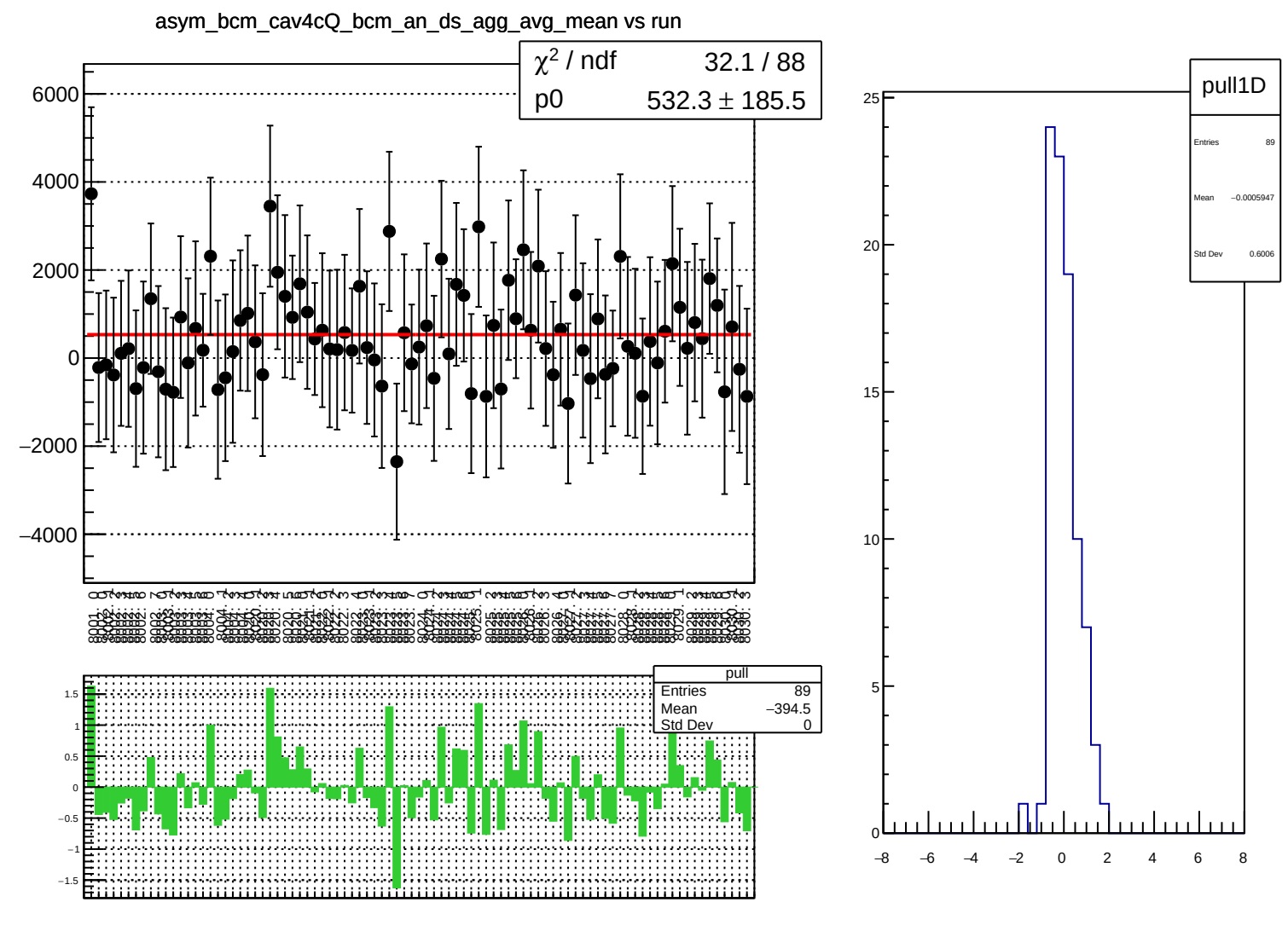

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 30.75 / 88
p0 517.7 ± 186
pull
Entries 89
Mean −474.4
Std Dev 0
pull1D
Entries 89
Mean −0.0006952
Std Dev 0.5878

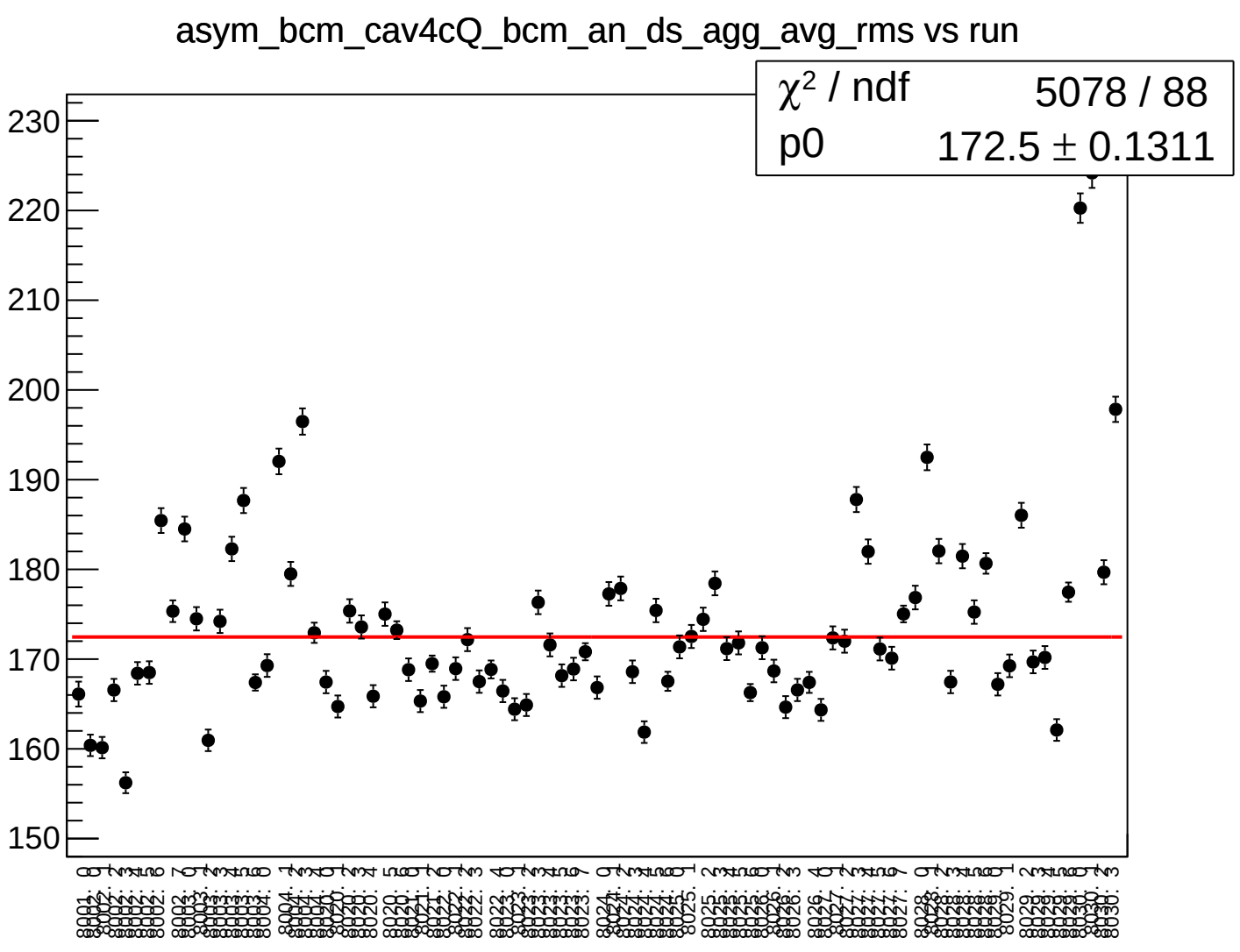

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 4995 / 88
p0 173 ± 0.1315
230
220
210
200
190
180
170
160
150

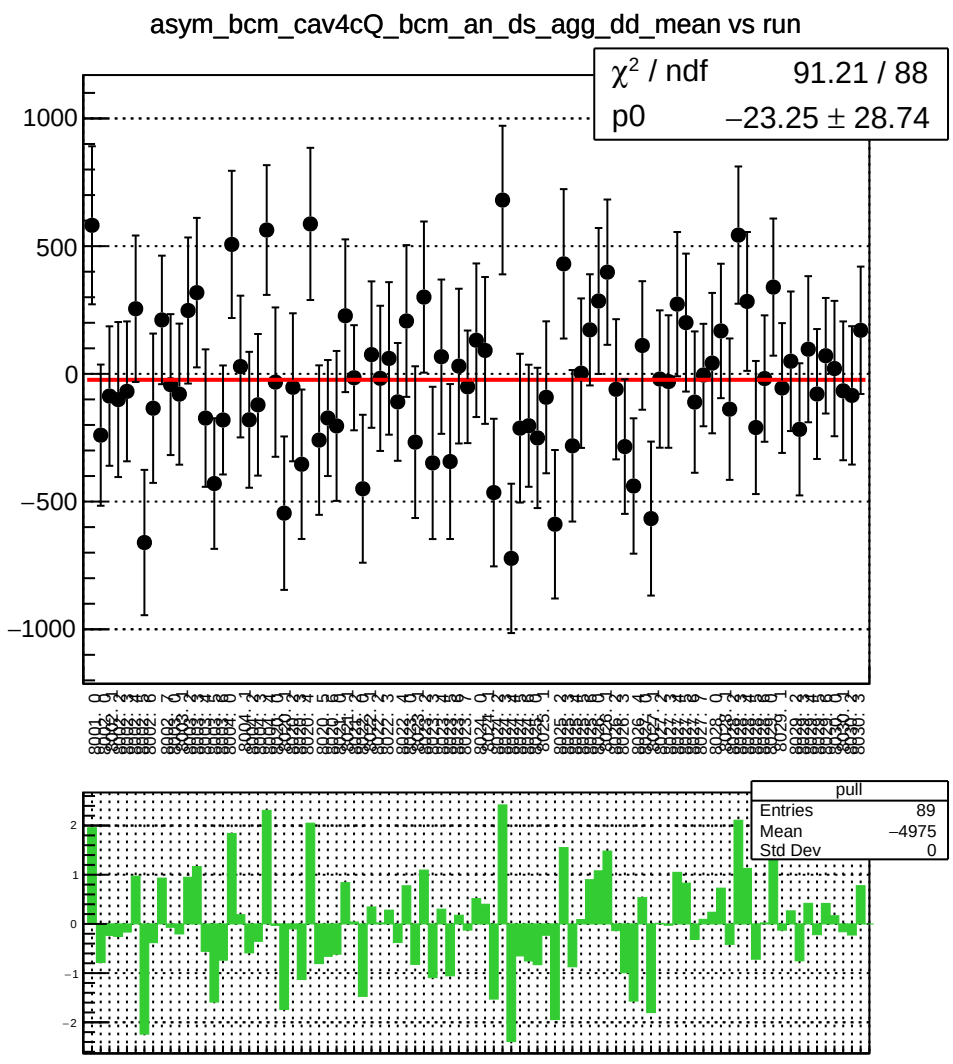

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 87.51 / 88
p0 −11.44 ± 29.26
pull
Entries 89
Mean 241.7
Std Dev 0

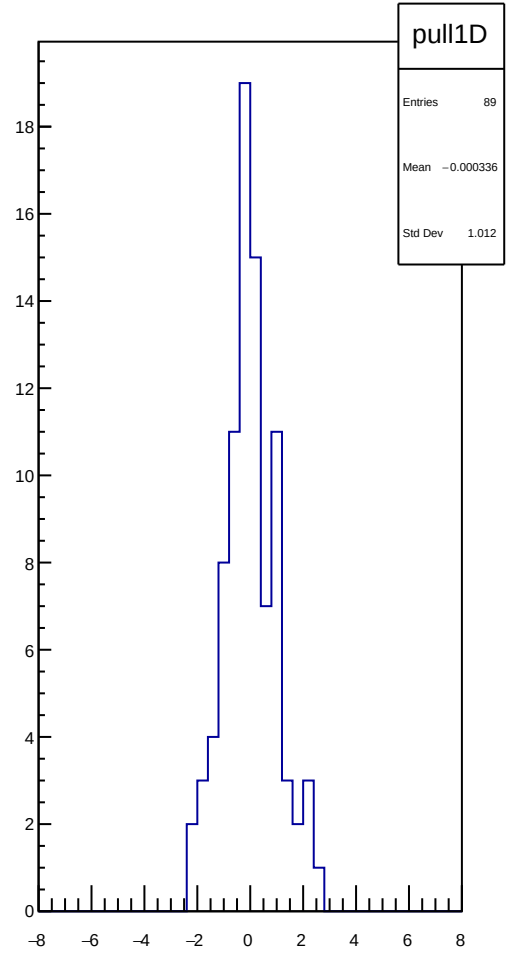

pull1D
Entries 89
Mean 0.004723
Std Dev 0.9916

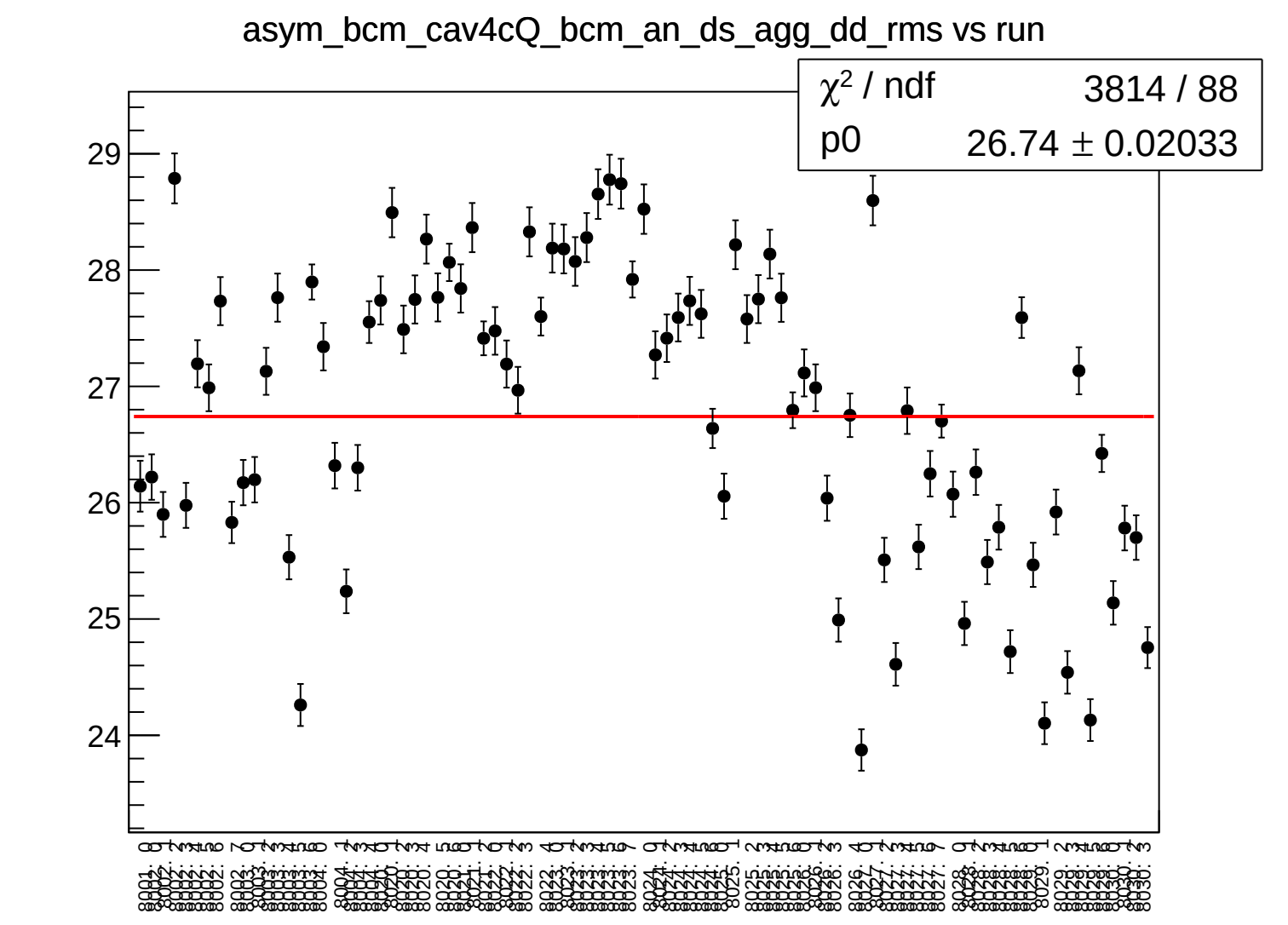

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 4065 / 88
p0 27.22 ± 0.02069
30
29
28
27
26
25
24

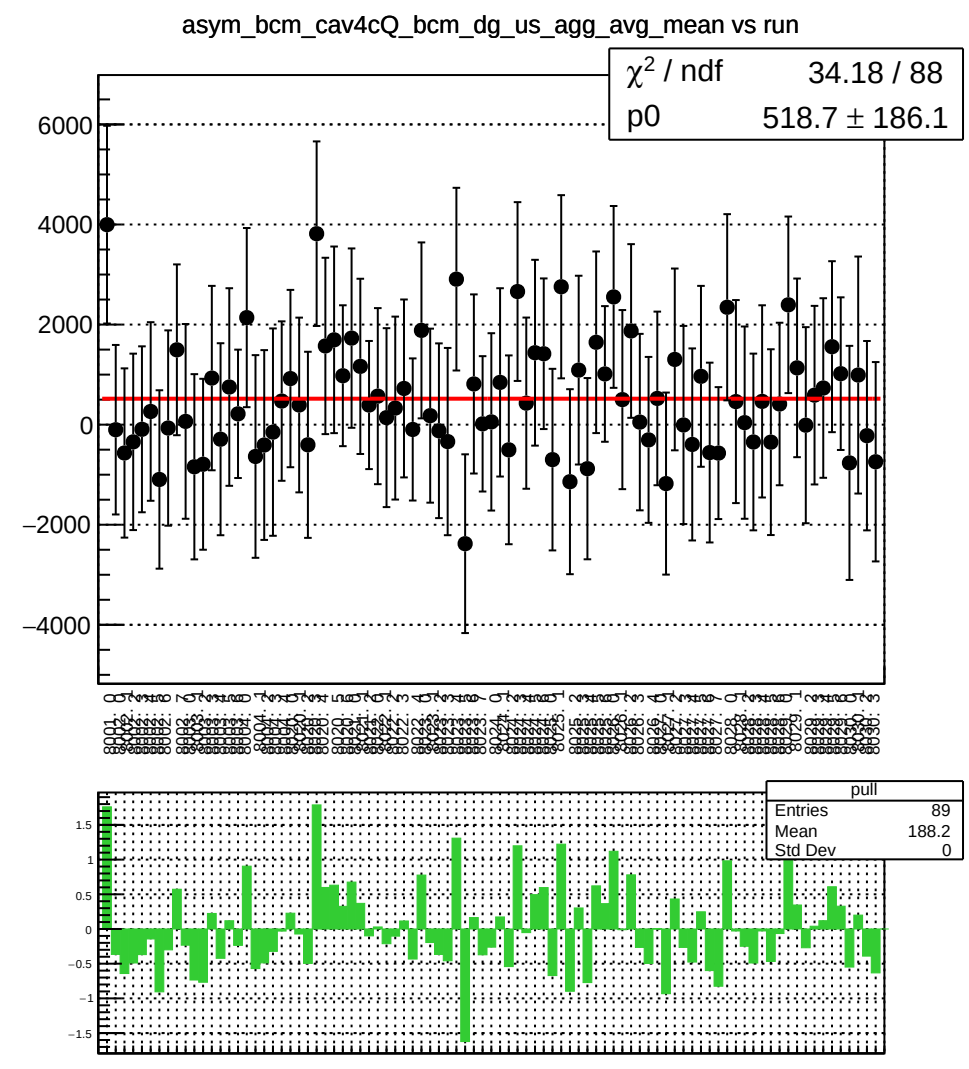

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 32.1 / 88
p0 532.3 ± 185.5
6000
4000
2000
0
−2000
−4000
pull
Entries 89
Mean −394.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 89
Mean −0.0005947
Std Dev 0.6006
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

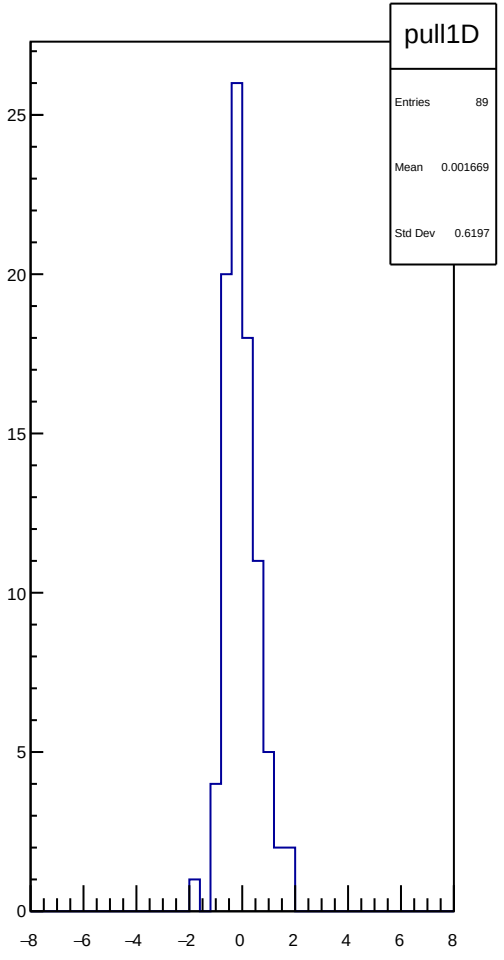

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 5078 / 88
p0 172.5 ± 0.1311
230
220
210
200
190
180
170
160
150

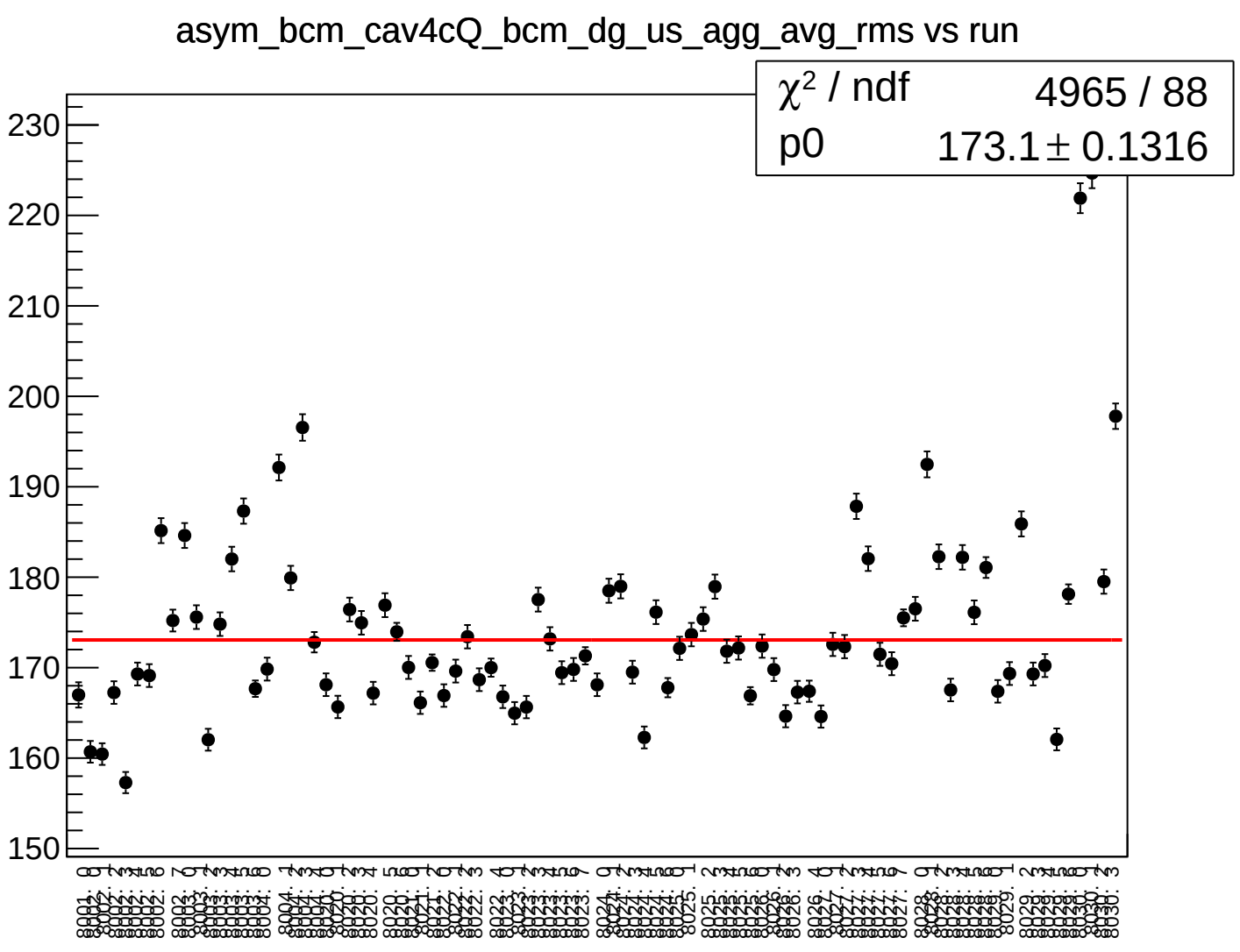

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 91.21 / 88
p0 −23.25 ± 28.74
1000
500
0
−500
−1000
pull
Entries 89
Mean −4975
Std Dev 0
2
1
0
−1
−2

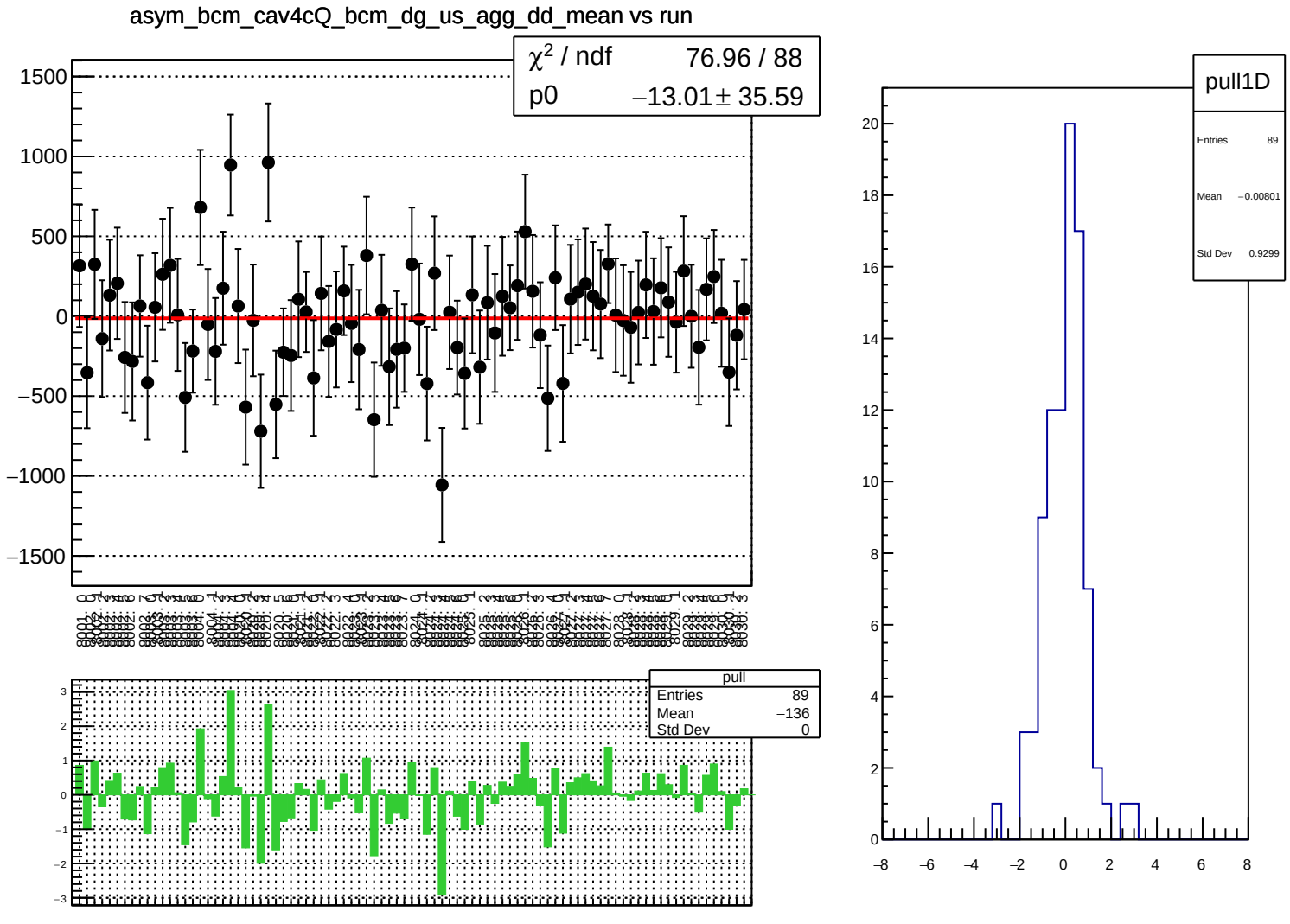

pull1D
Entries 89
Mean −0.000336
Std Dev 1.012
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

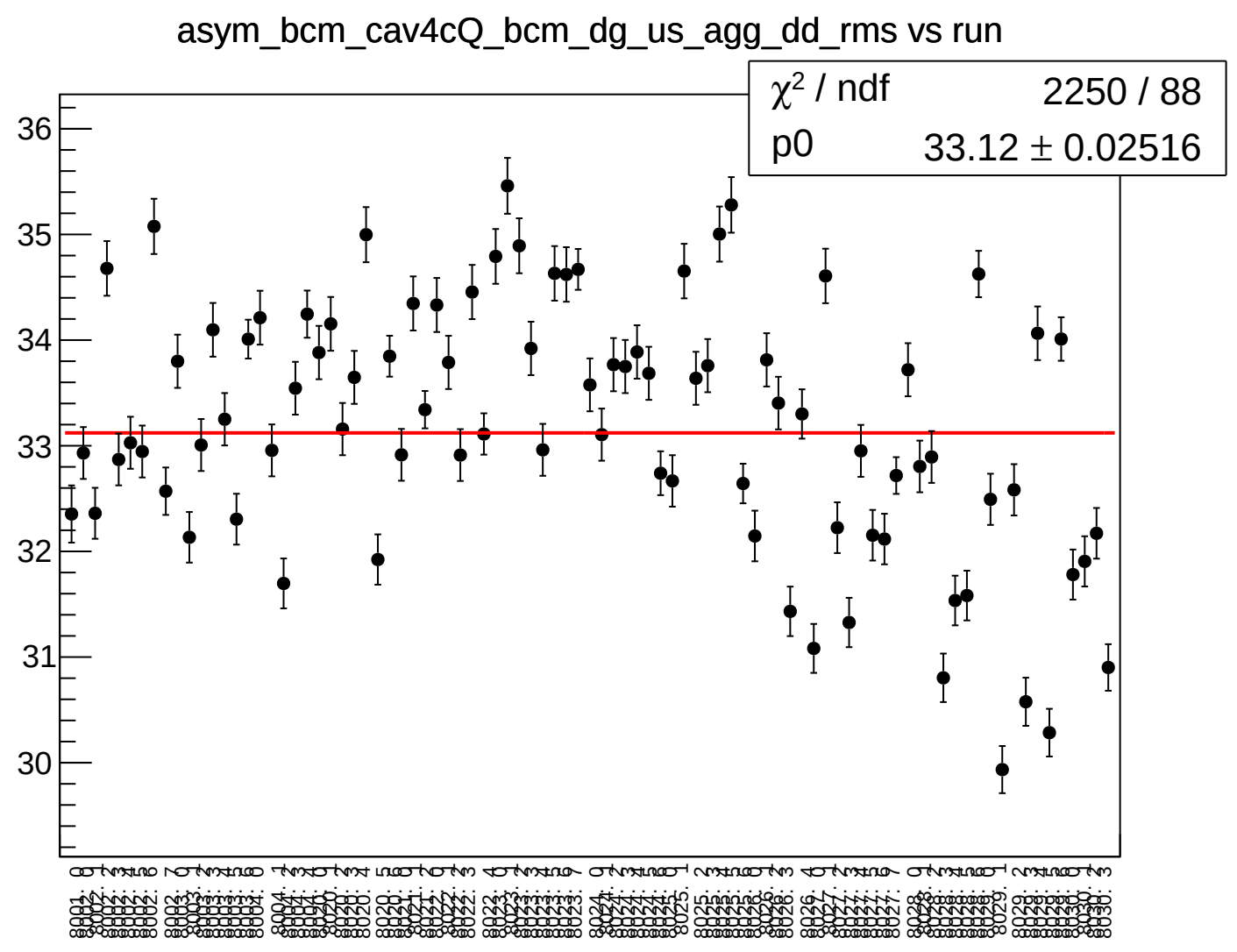

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 3814 / 88
p0 26.74 ± 0.02033
29
28
27
26
25
24

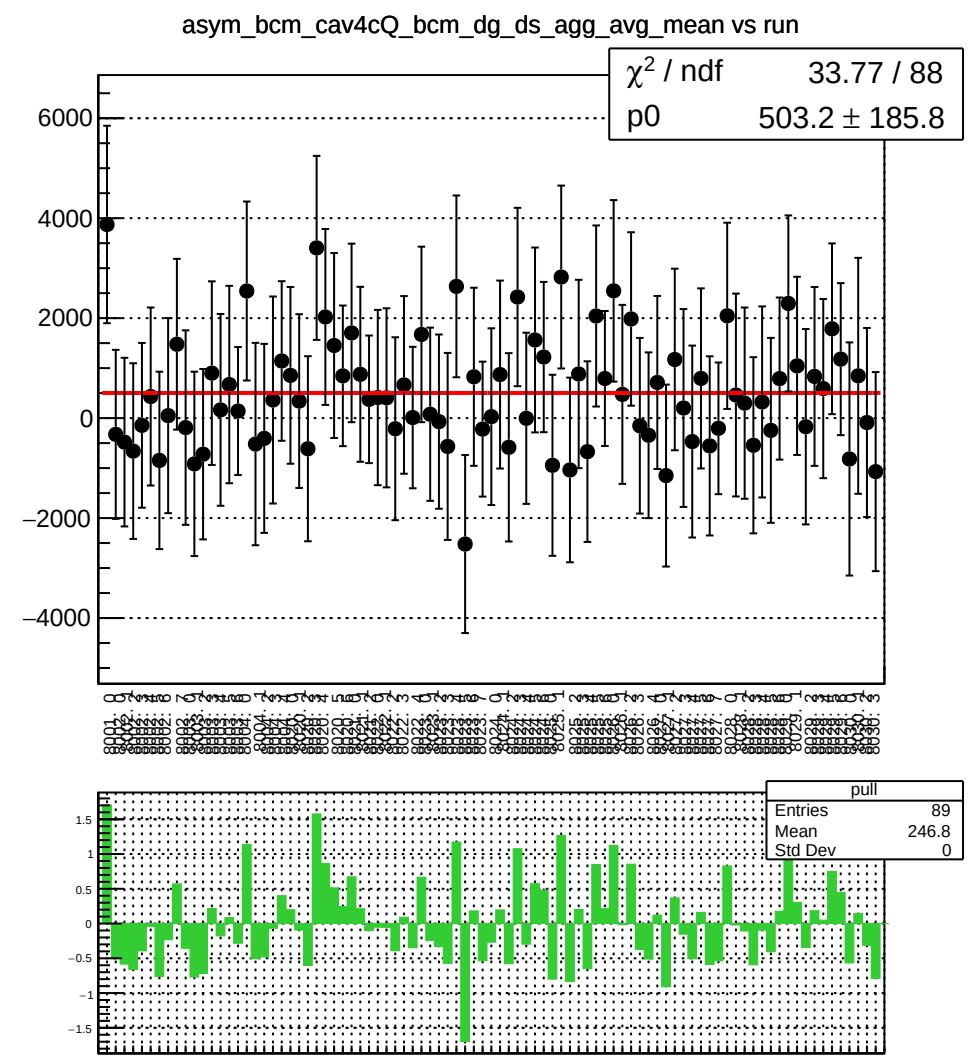

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 34.18 / 88
p0 518.7 ± 186.1
6000
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 188.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

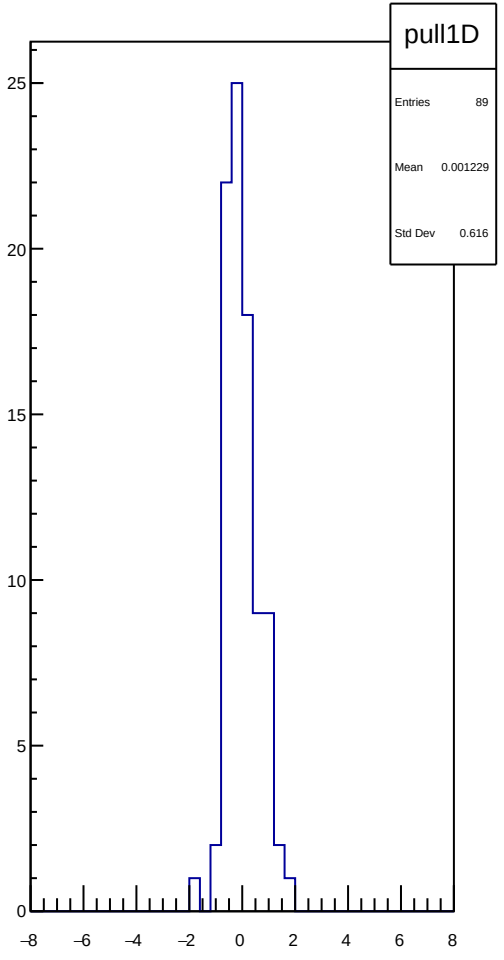

pull1D
Entries 89
Mean 0.001669
Std Dev 0.6197
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

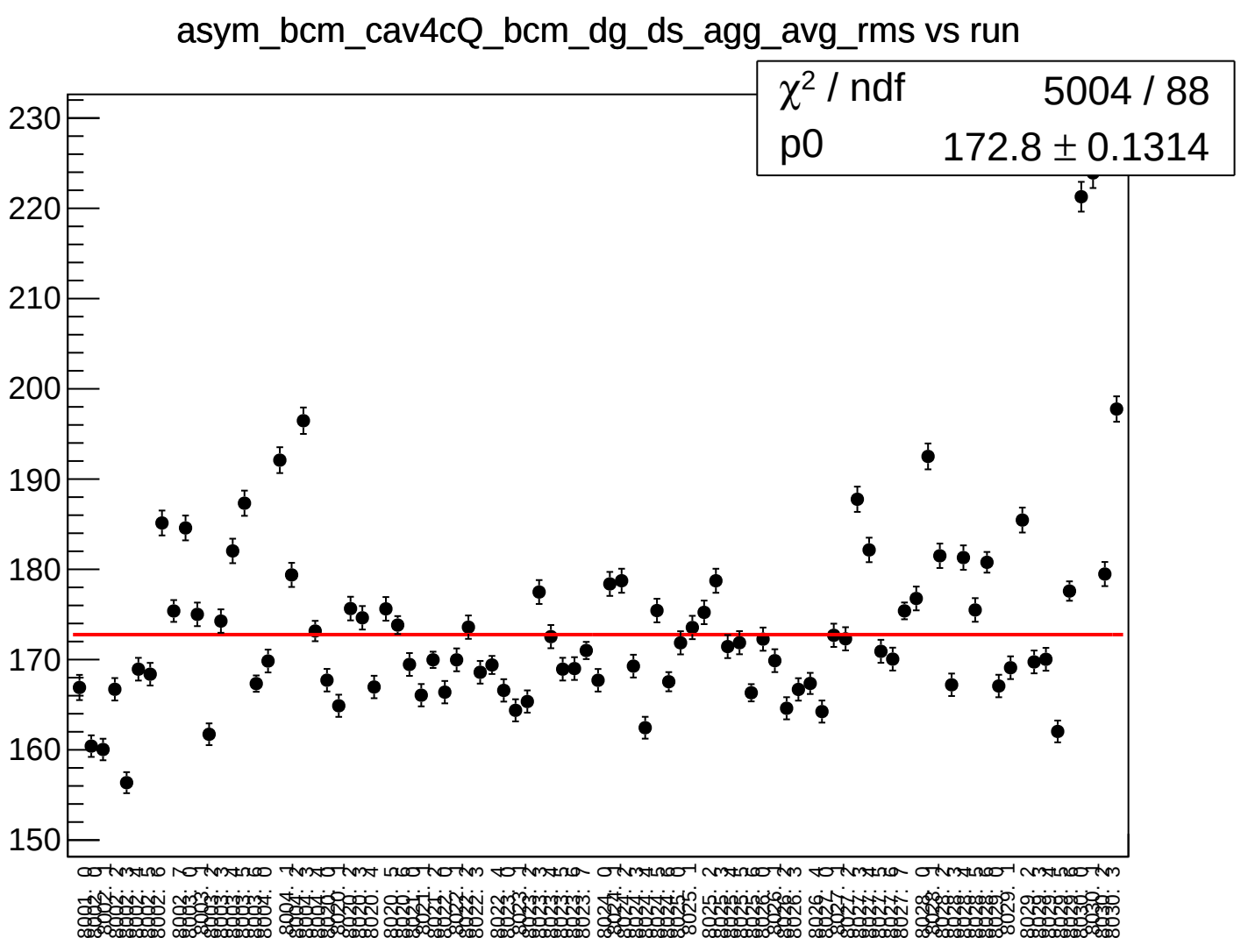

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 4965 / 88
p0 173.1 ± 0.1316
230
220
210
200
190
180
170
160
150

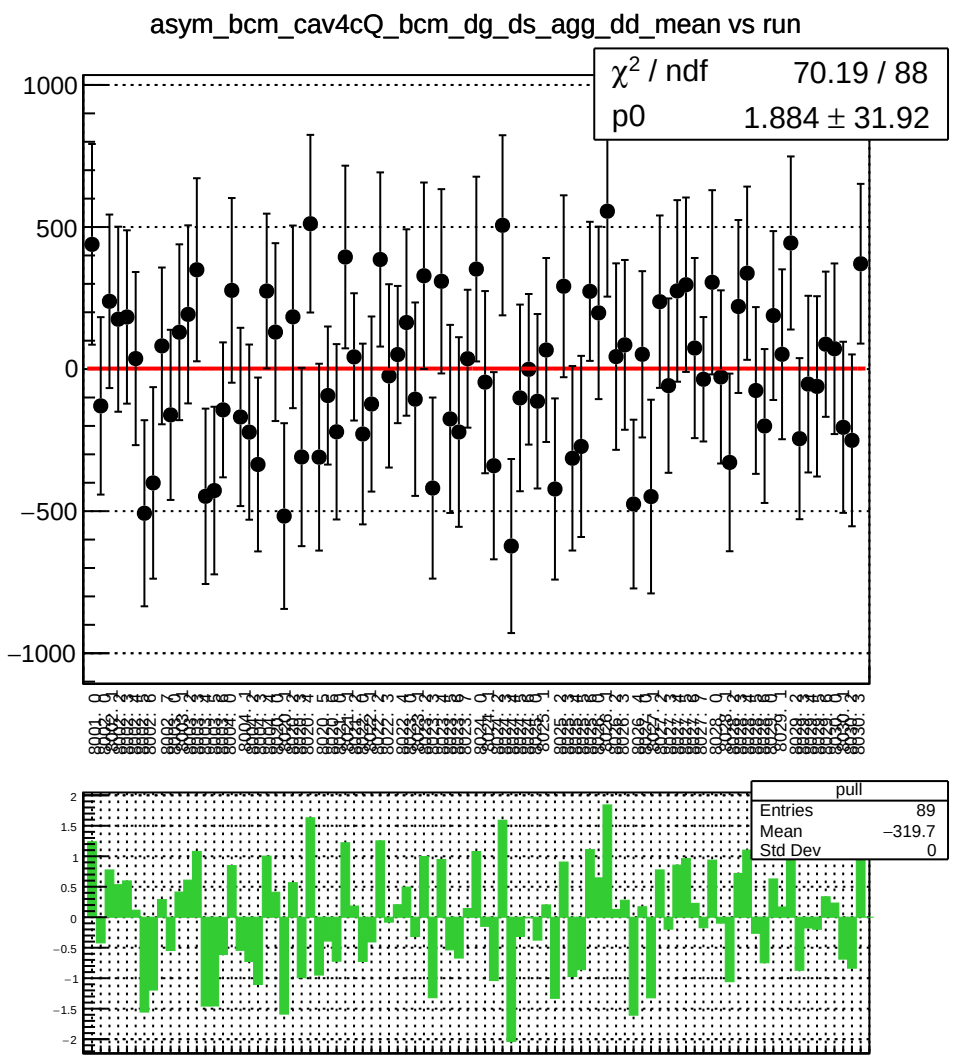

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 76.96 / 88
p0 −13.01± 35.59
1500
1000
500
0
−500
−1000
−1500
pull
Entries 89
Mean −136
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.00801
Std Dev 0.9299
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

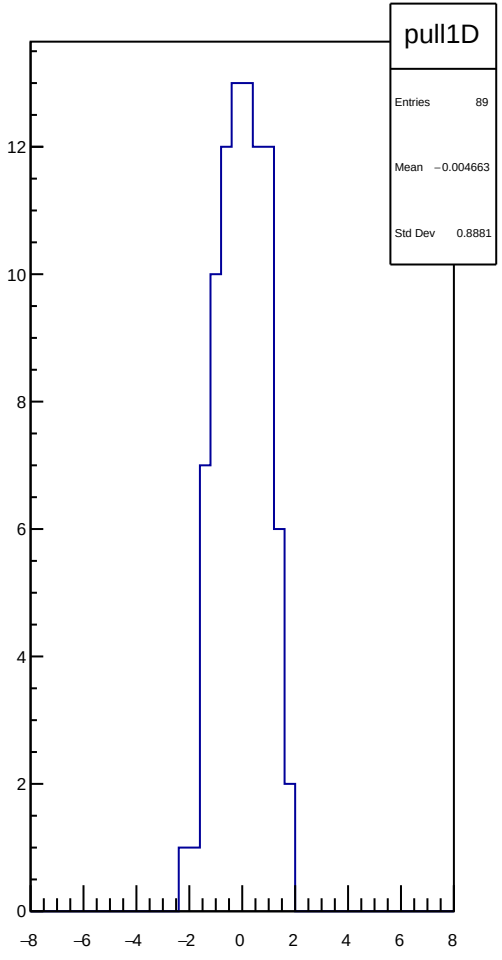

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 2250 / 88
p0 33.12 ± 0.02516
36
35
34
33
32
31
30

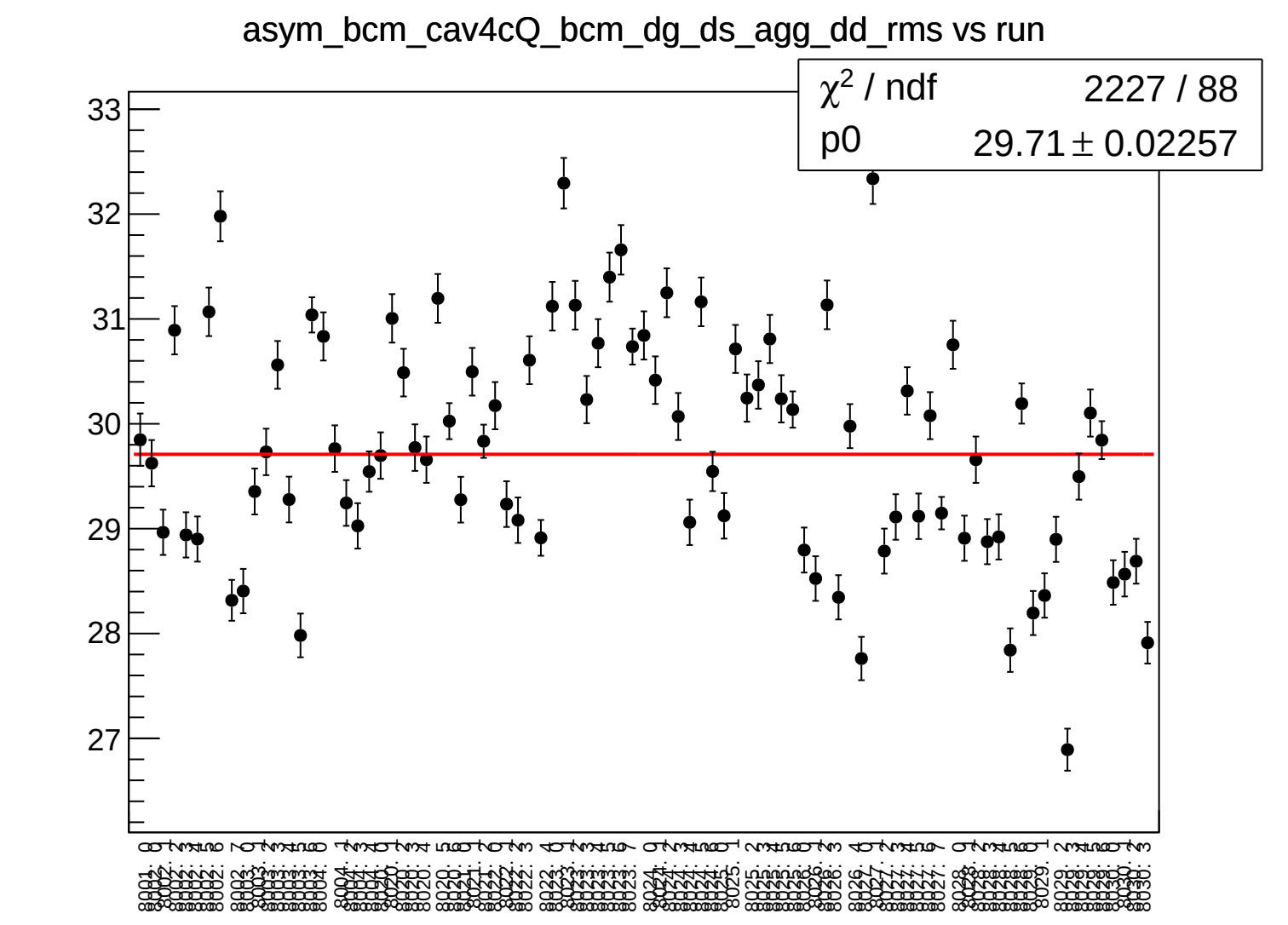

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 33.77 / 88
p0 503.2 ± 185.8
6000
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 246.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

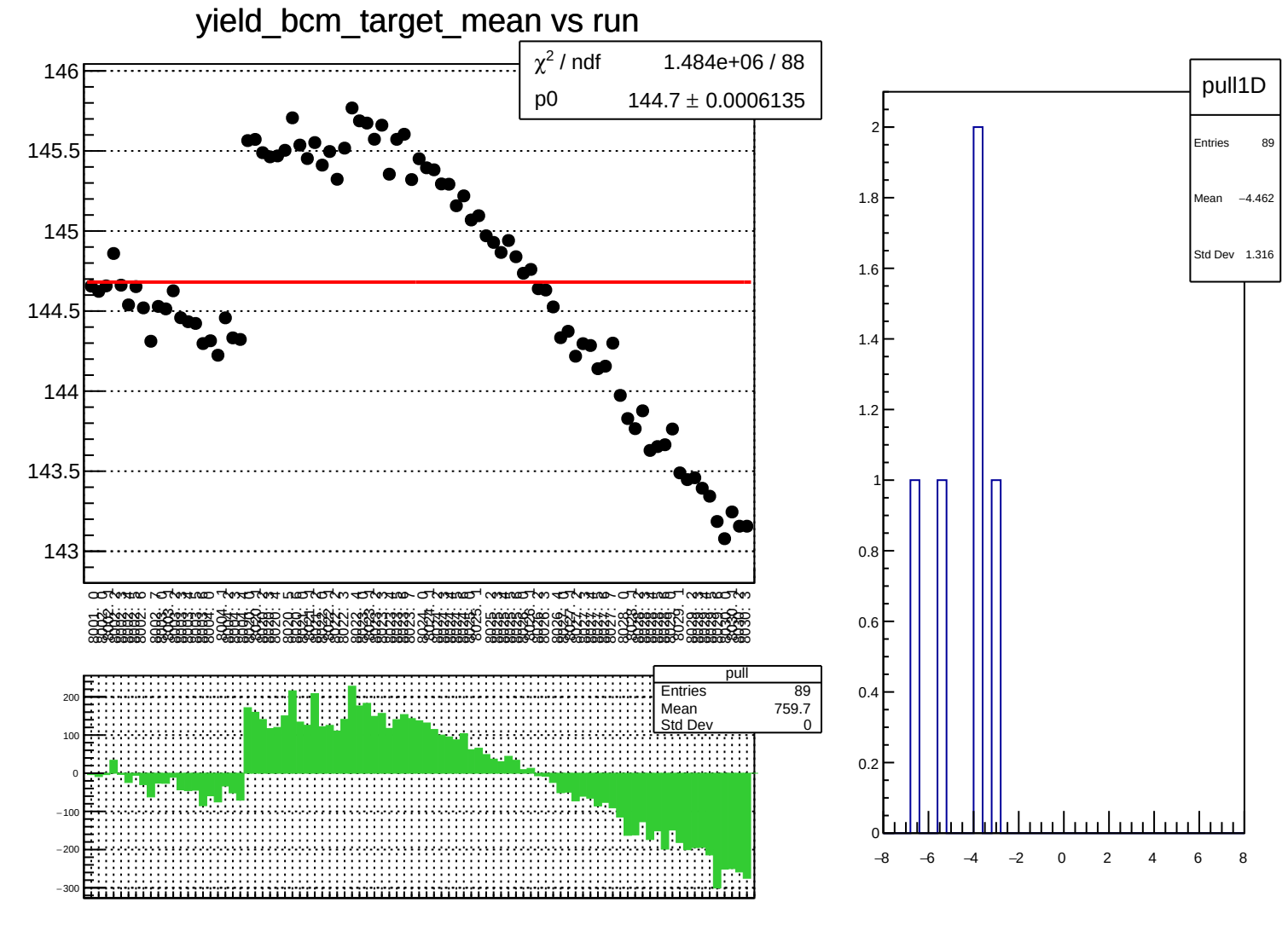

pull1D
Entries 89
Mean 0.001229
Std Dev 0.616
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

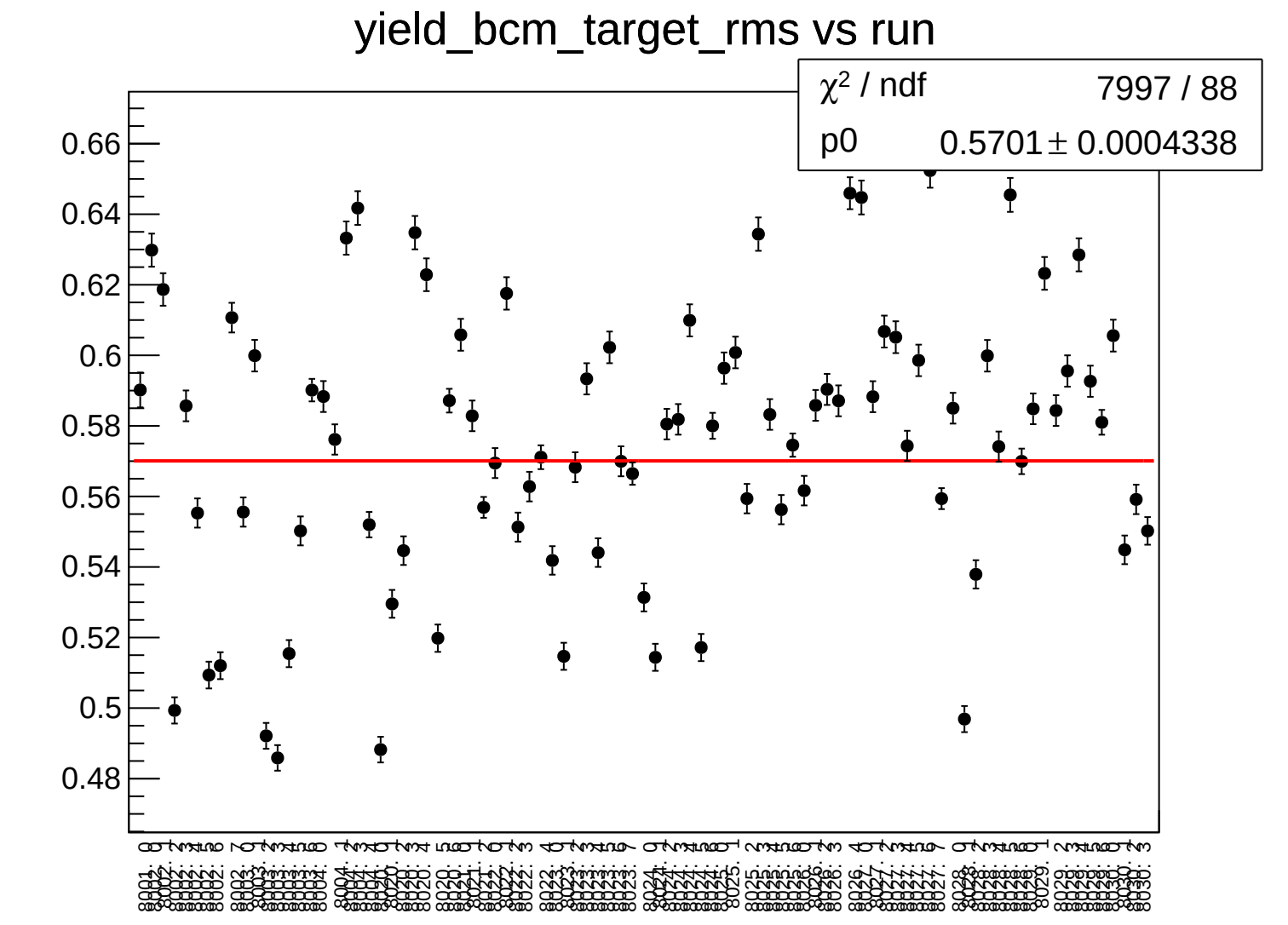

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 5004 / 88
p0 172.8 ± 0.1314
230
220
210
200
190
180
170
160
150

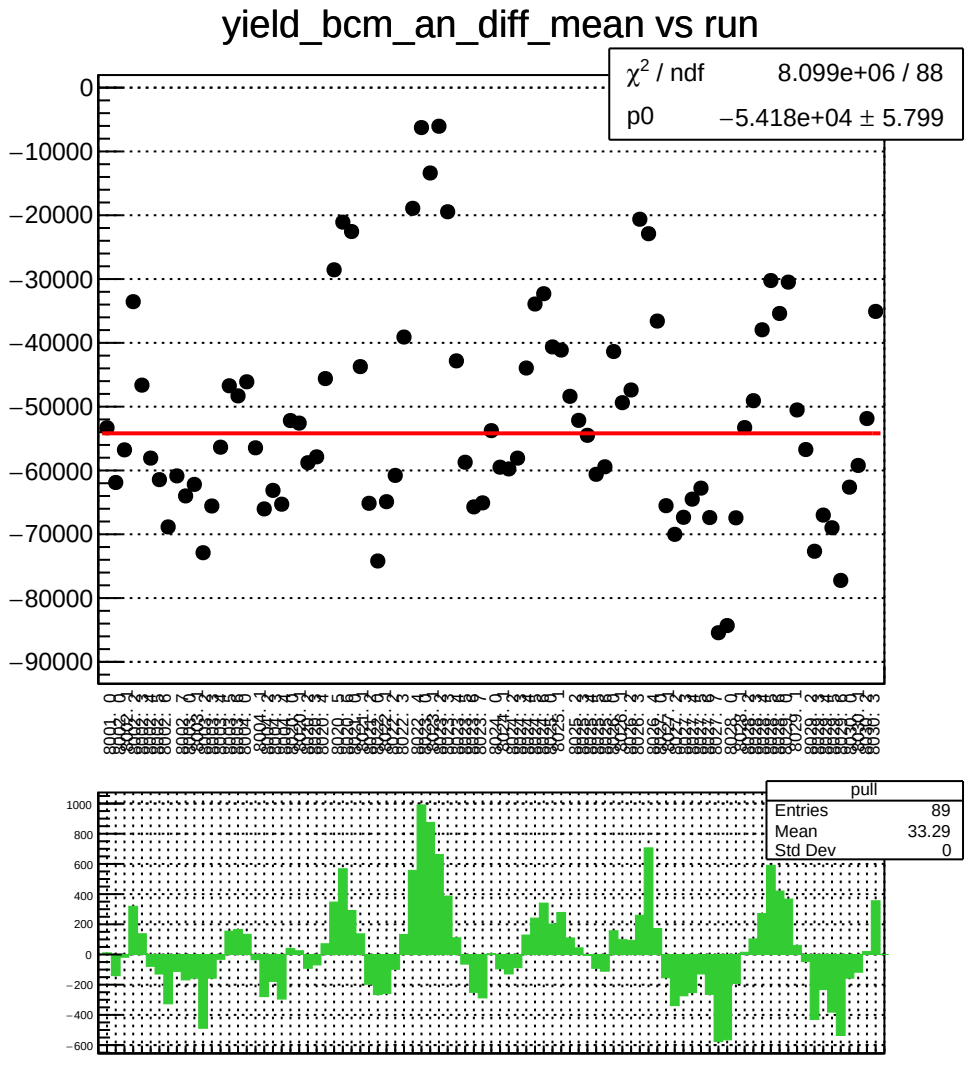

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 70.19 / 88
p0 1.884 ± 31.92
1000
500
0
−500
−1000
pull
Entries 89
Mean −319.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

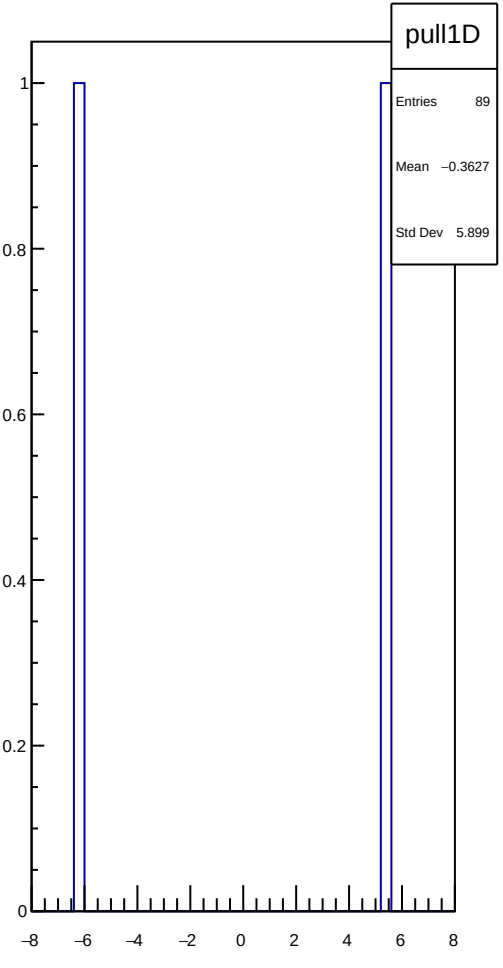

pull1D
Entries 89
Mean −0.004663
Std Dev 0.8881
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

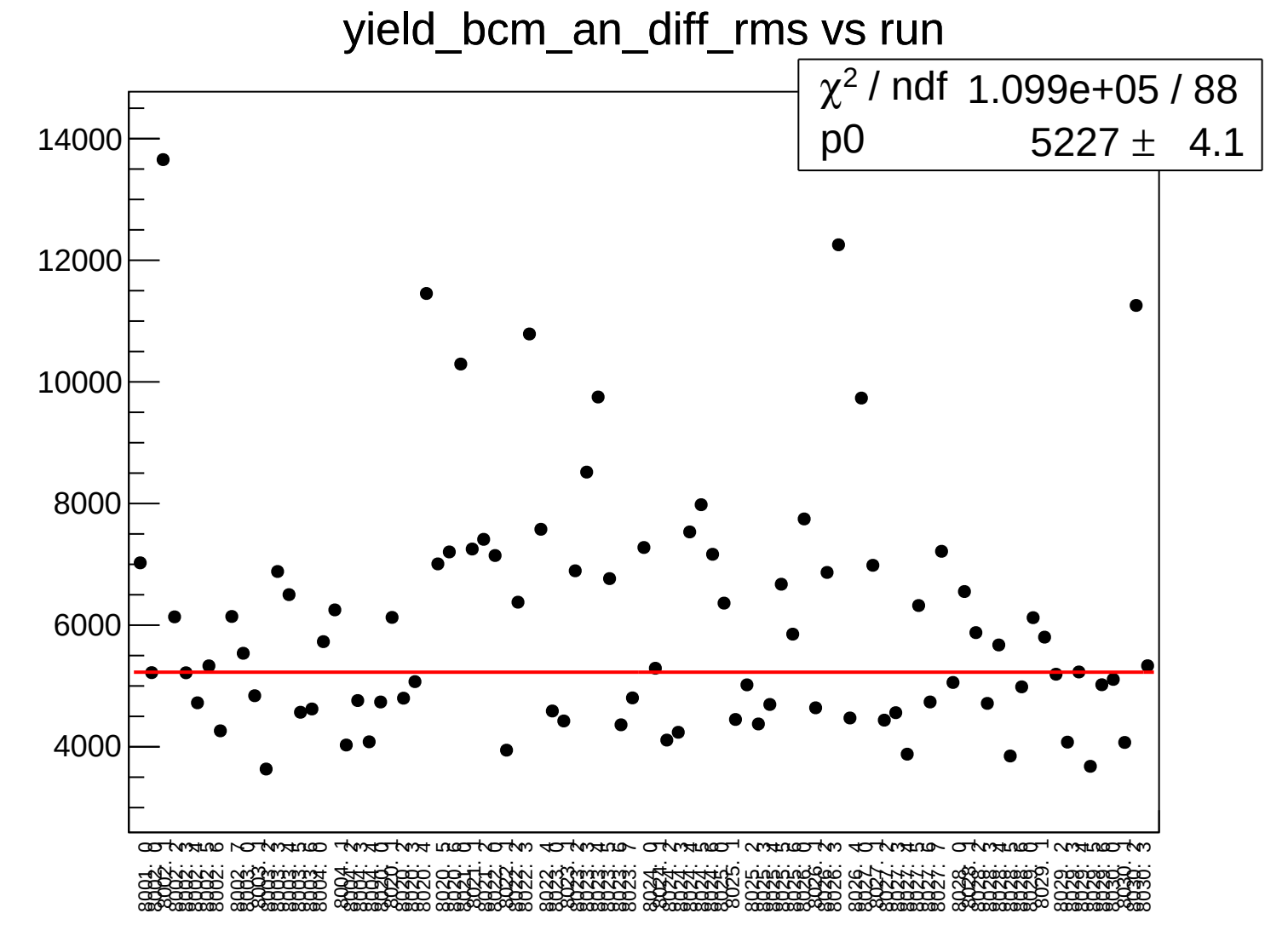

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2227 / 88
p0 29.71 ± 0.02257
33
32
31
30
29
28
27

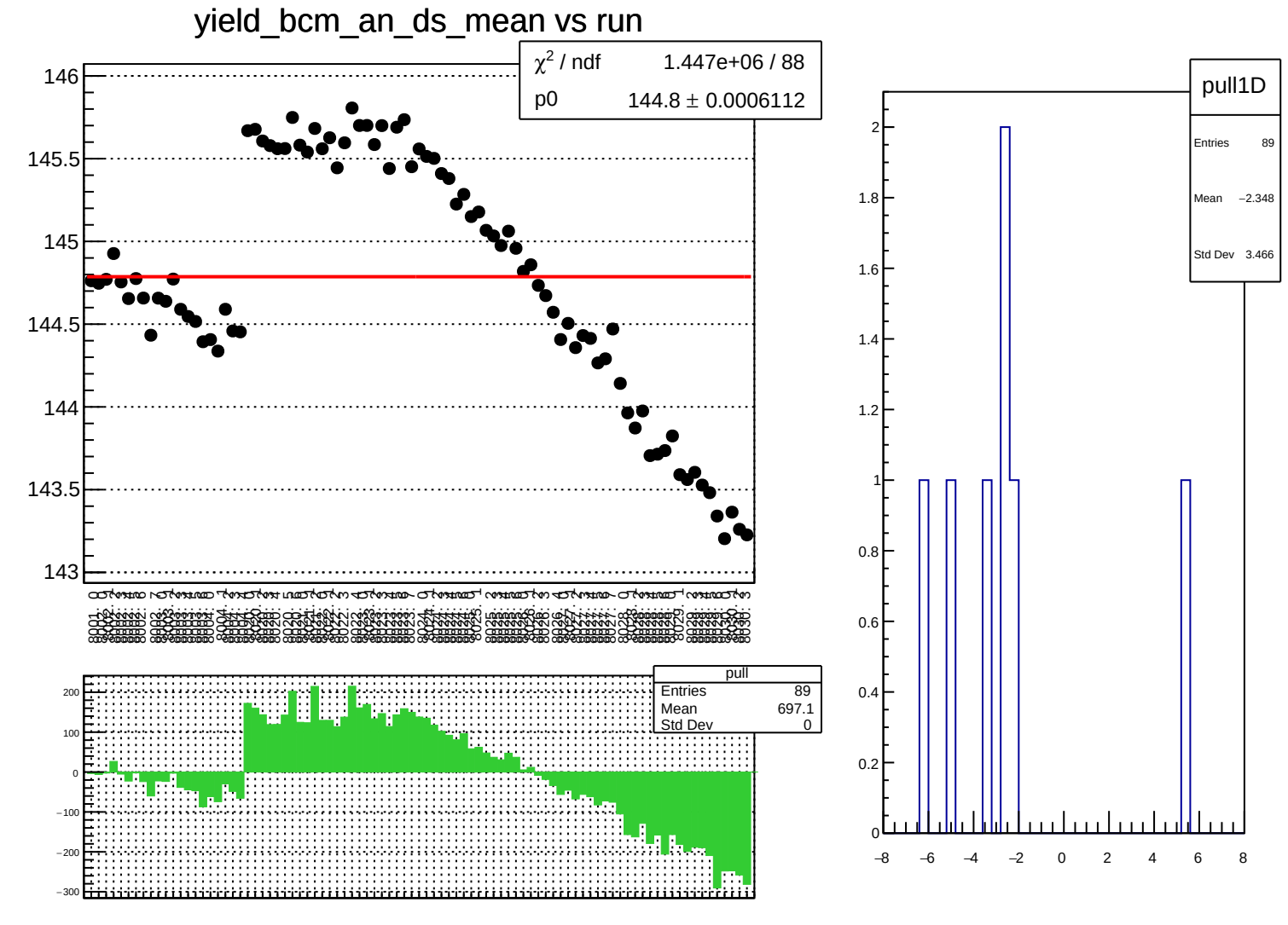

yield_bcm_target_mean vs run
χ² / ndf 1.484e+06 / 88
p0 144.7 ± 0.0006135
146
145.5
145
144.5
144
143.5
143
pull
Entries 89
Mean 759.7
Std Dev 0
200
100
0
−100
−200
−300
pull1D
Entries 89
Mean −4.462
Std Dev 1.316
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

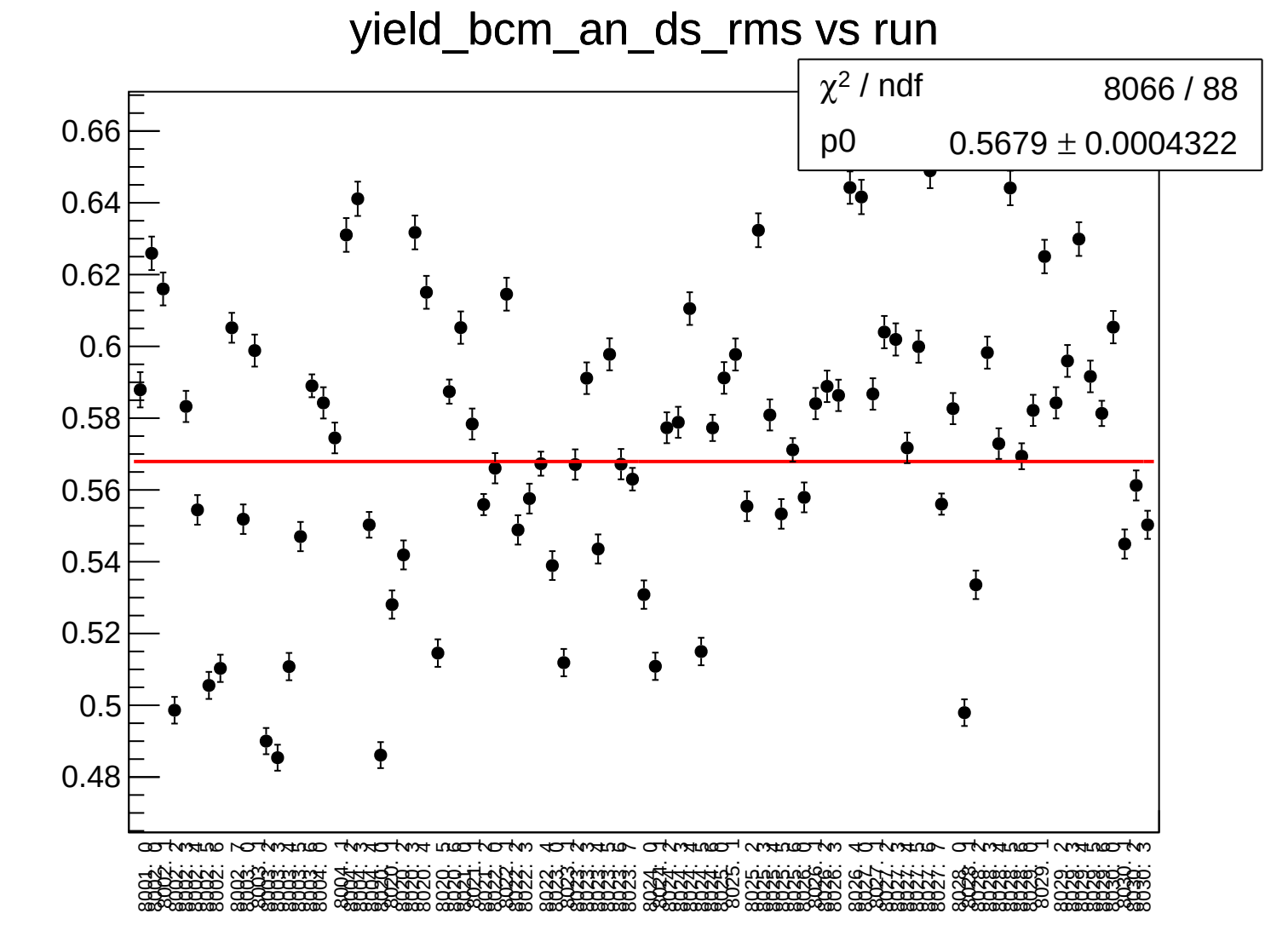

yield_bcm_target_rms vs run
χ² / ndf 7997 / 88
p0 0.5701 ± 0.0004338
0.66
0.64
0.62
0.6
0.58
0.56
0.54
0.52
0.5
0.48

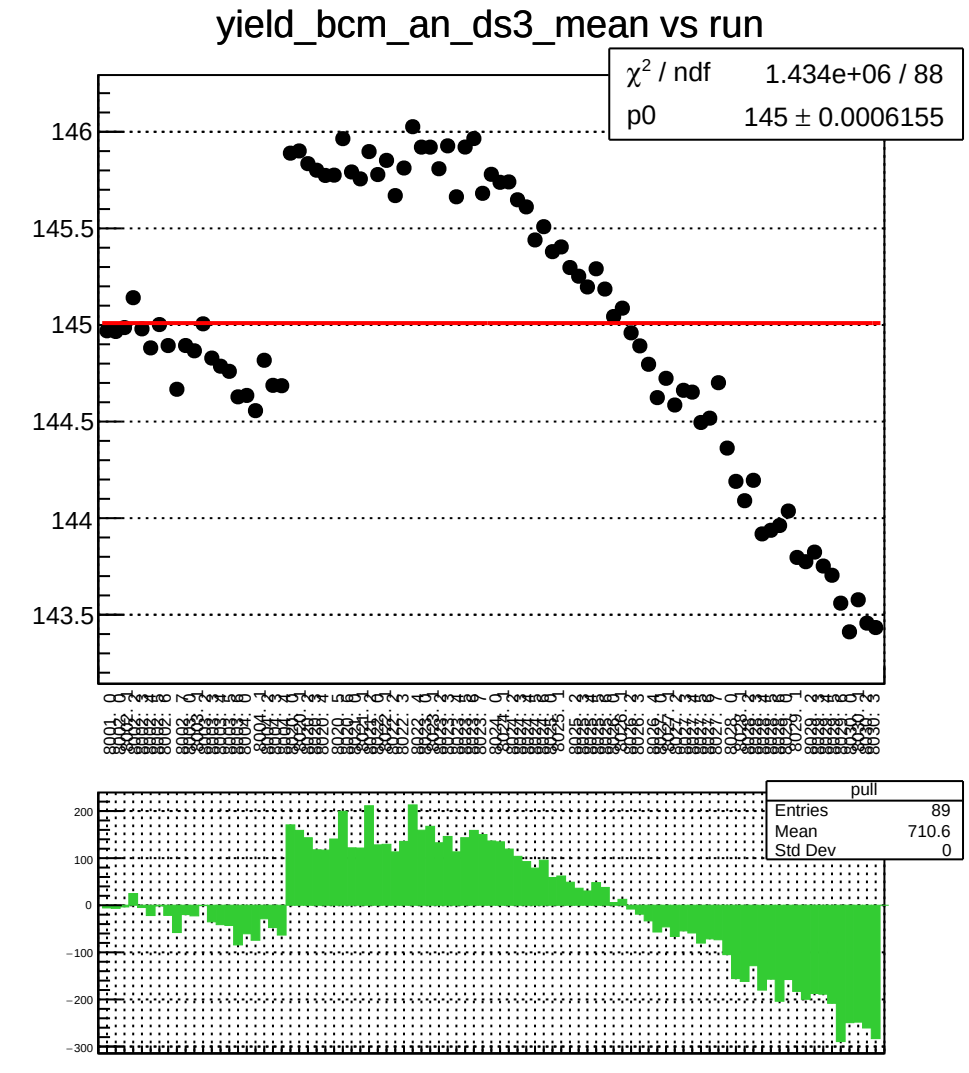

yield_bcm_an_diff_mean vs run
χ² / ndf 8.099e+06 / 88
p0 −5.418e+04 ± 5.799
pull
Entries 89
Mean 33.29
Std Dev 0

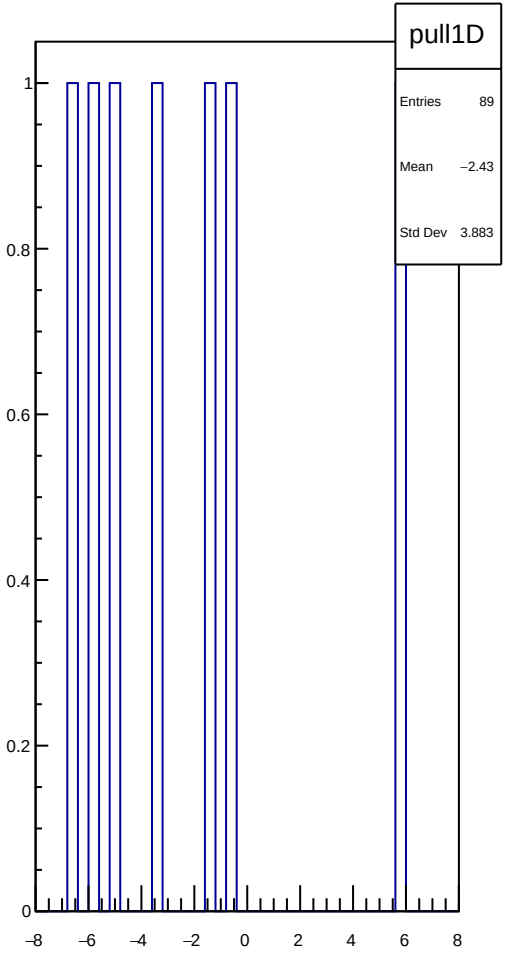

pull1D
Entries 89
Mean −0.3627
Std Dev 5.899

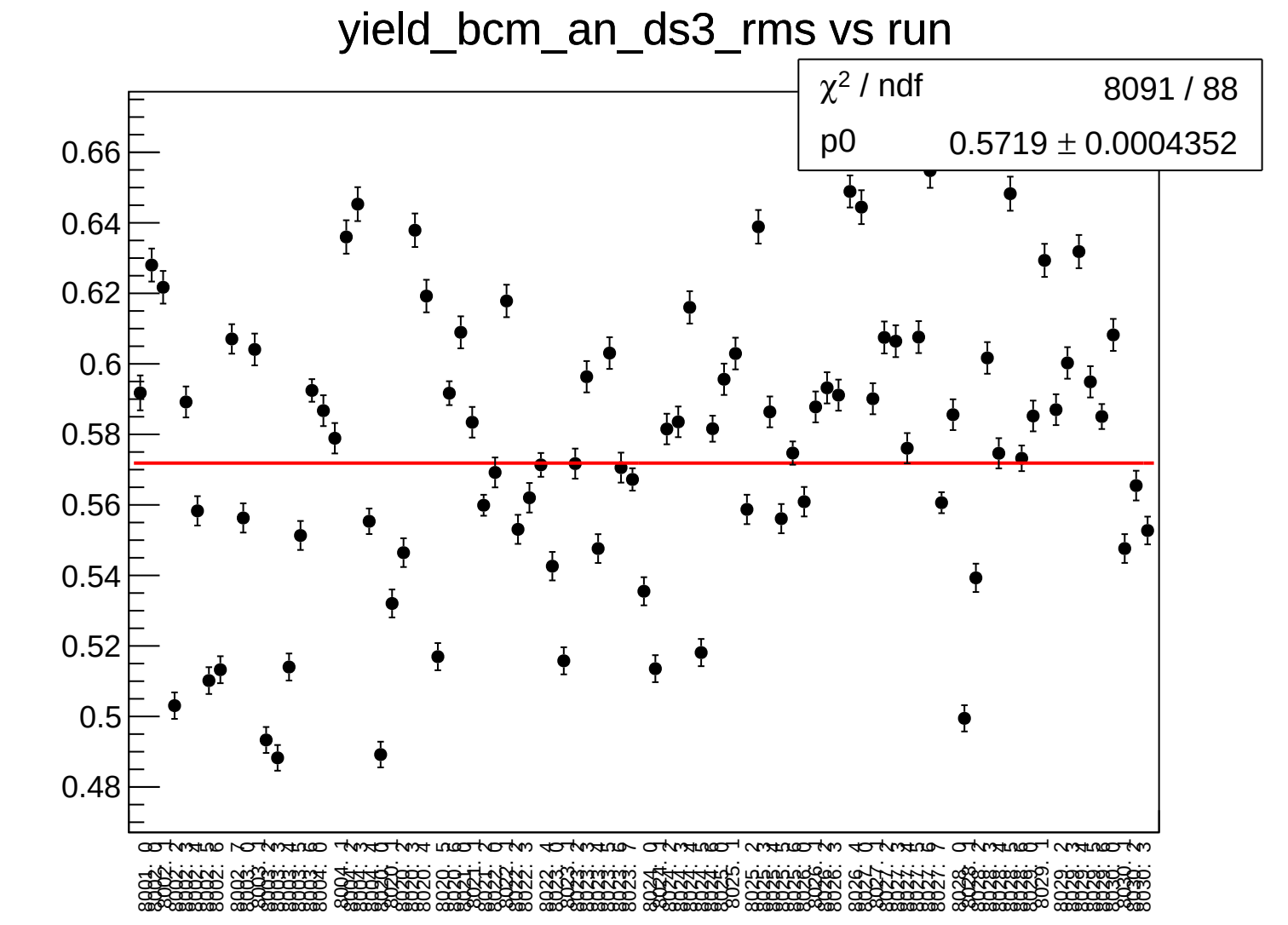

yield_bcm_an_diff_rms vs run
χ² / ndf 1.099e+05 / 88
p0 5227 ± 4.1
14000
12000
10000
8000
6000
4000

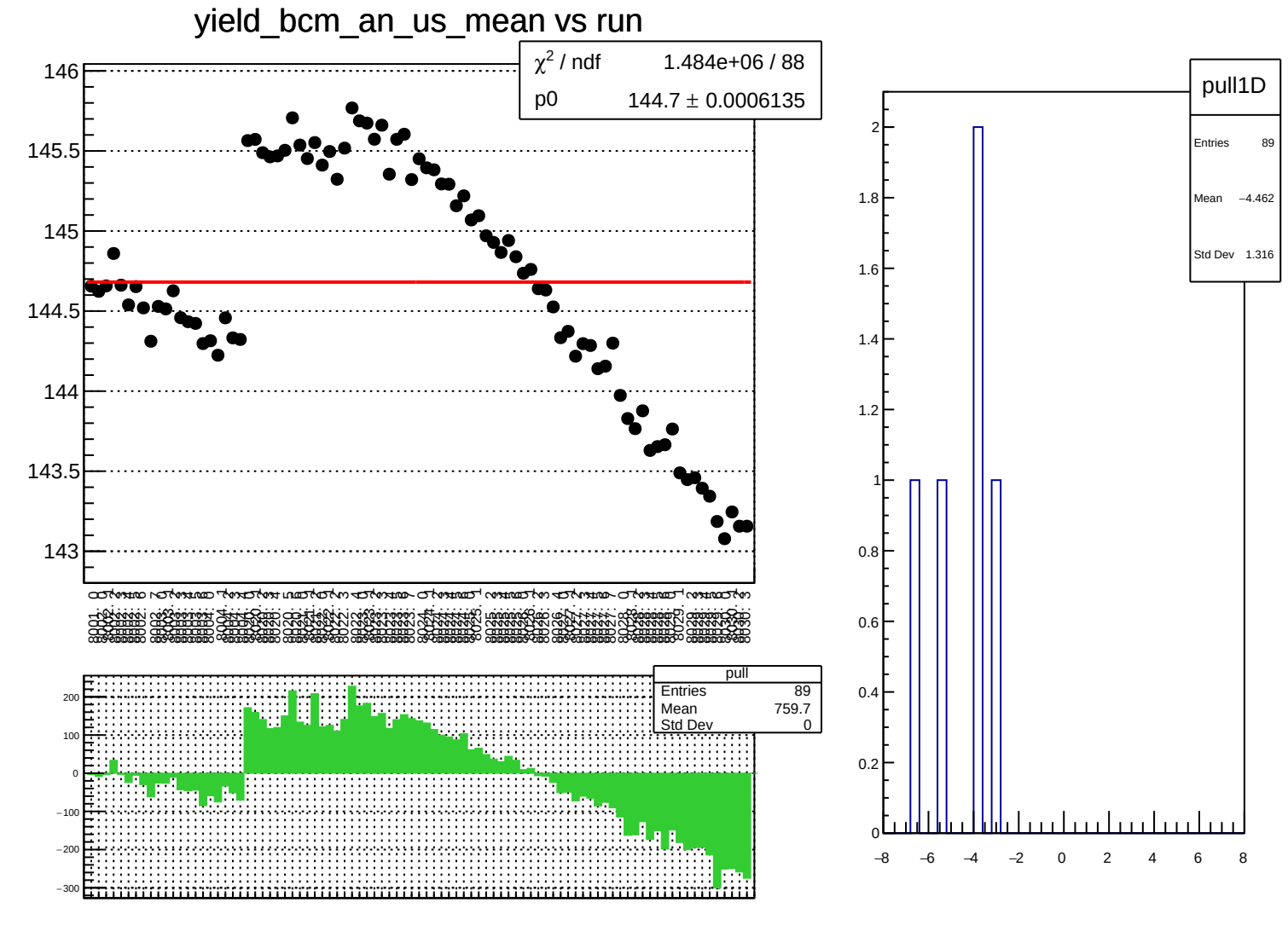

yield_bcm_an_ds_mean vs run
χ² / ndf 1.447e+06 / 88
p0 144.8 ± 0.0006112
146
145.5
145
144.5
144
143.5
143
pull
Entries 89
Mean 697.1
Std Dev 0
200
100
0
−100
−200
−300
pull1D
Entries 89
Mean −2.348
Std Dev 3.466
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

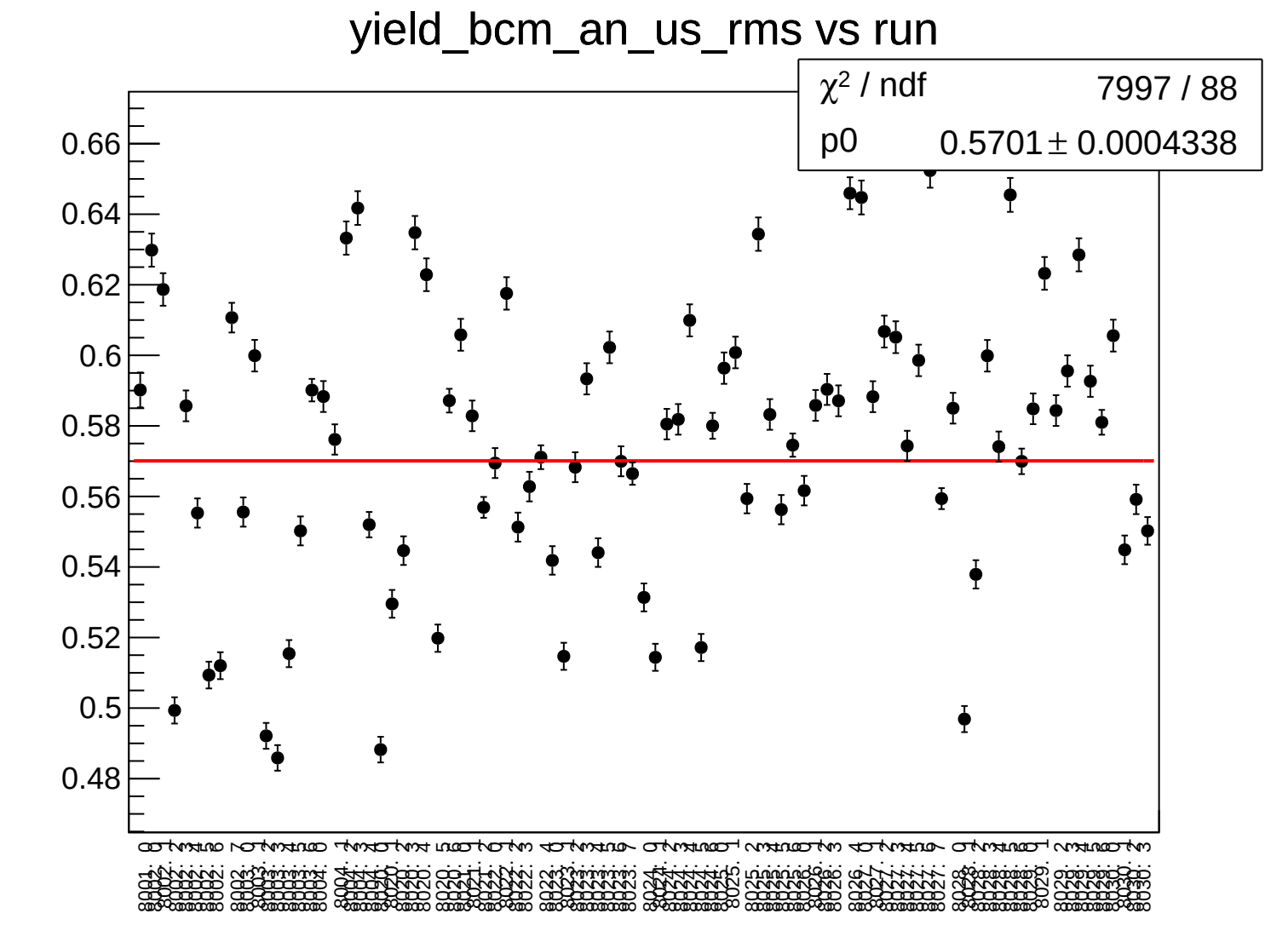

yield_bcm_an_ds_rms vs run
χ² / ndf 8066 / 88
p0 0.5679 ± 0.0004322
0.66
0.64
0.62
0.6
0.58
0.56
0.54
0.52
0.5
0.48

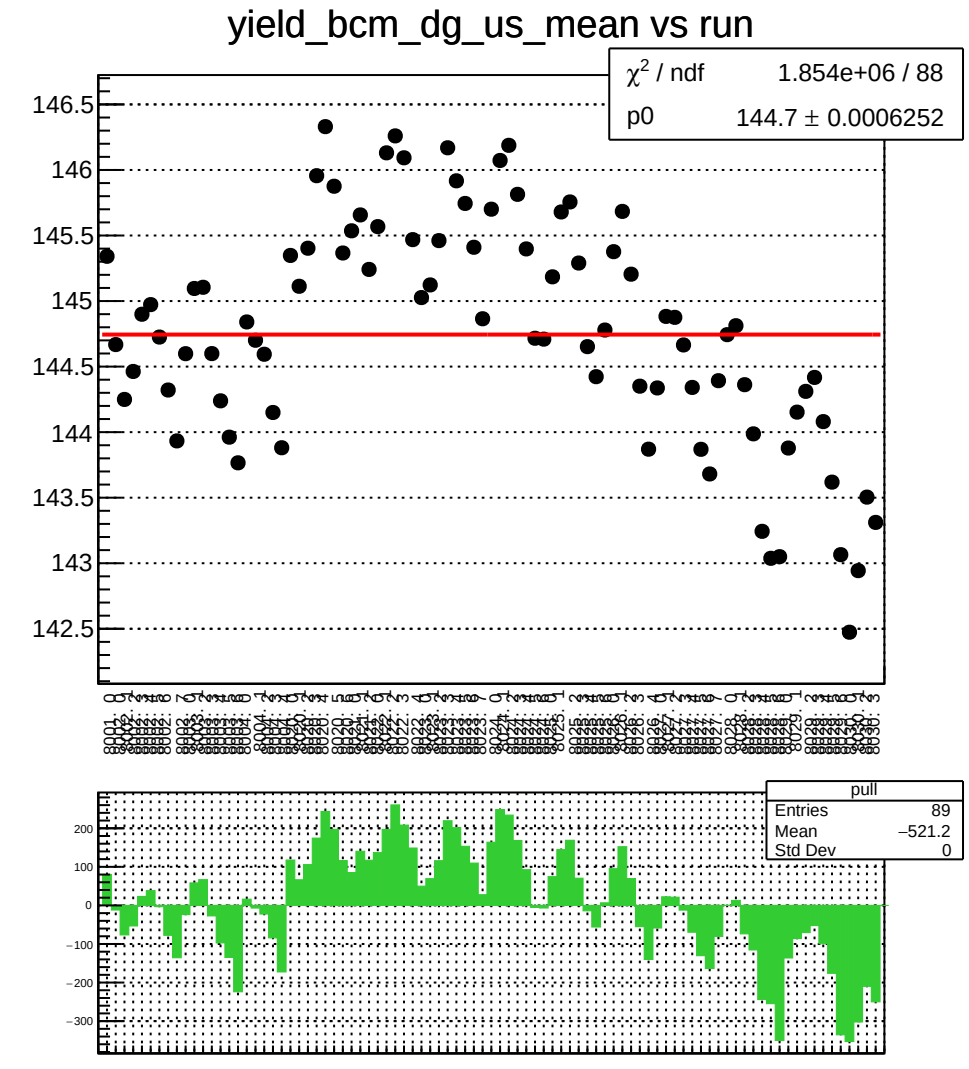

yield_bcm_an_ds3_mean vs run
χ² / ndf 1.434e+06 / 88
p0 145 ± 0.0006155
146
145.5
145
144.5
144
143.5
pull
Entries 89
Mean 710.6
Std Dev 0
200
100
0
−100
−200
−300

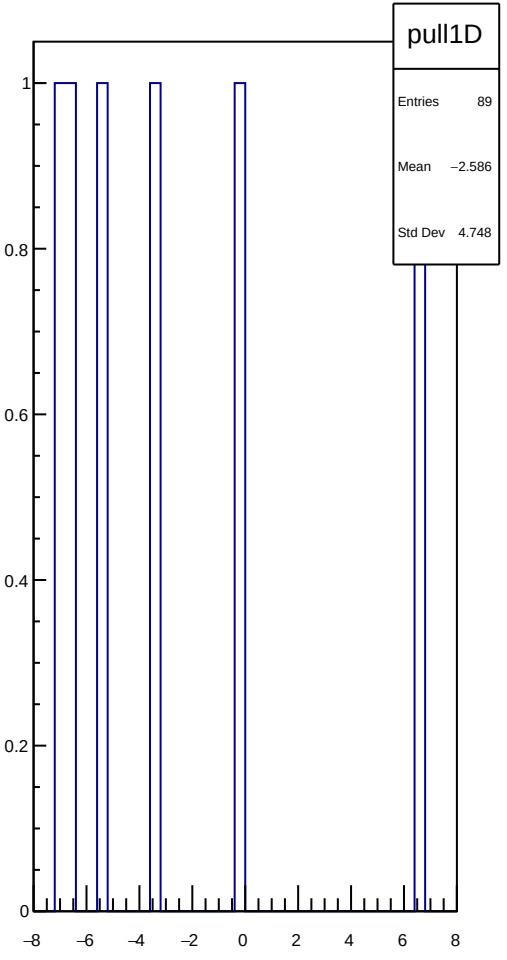

pull1D
Entries 89
Mean −2.43
Std Dev 3.883
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

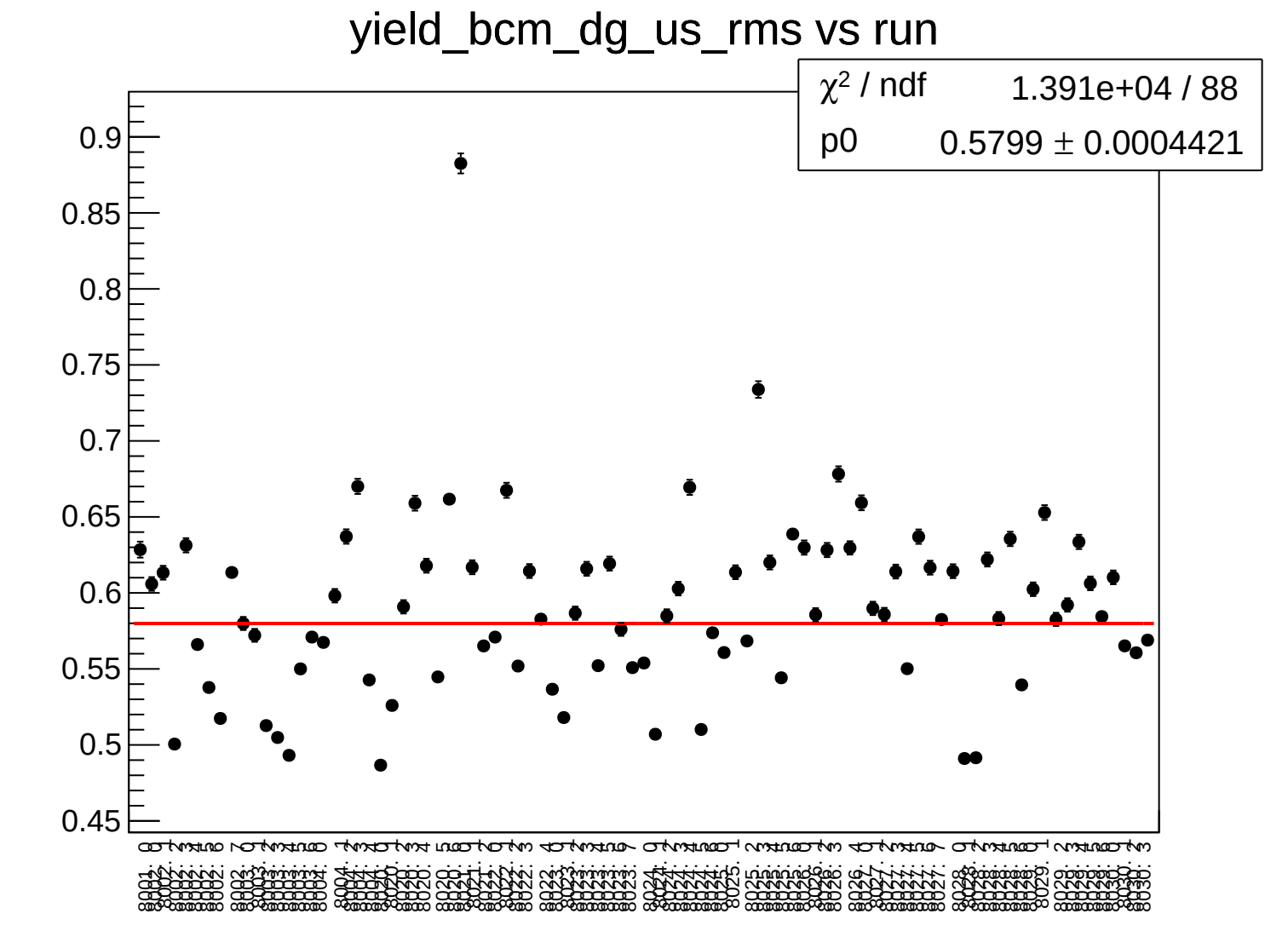

yield_bcm_an_ds3_rms vs run
χ² / ndf 8091 / 88
p0 0.5719 ± 0.0004352
0.66
0.64
0.62
0.6
0.58
0.56
0.54
0.52
0.5
0.48

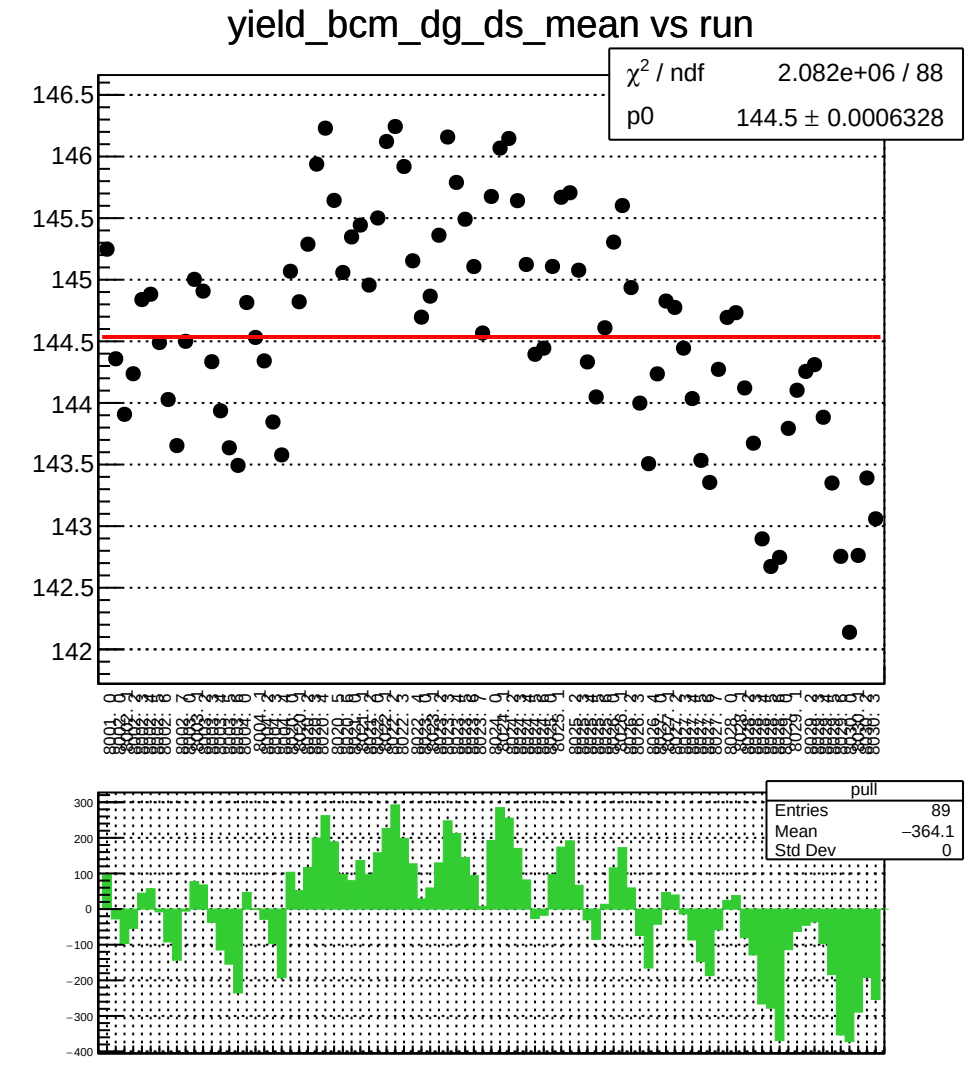

yield_bcm_an_us_mean vs run
χ² / ndf 1.484e+06 / 88
p0 144.7 ± 0.0006135
146
145.5
145
144.5
144
143.5
143
pull
Entries 89
Mean 759.7
Std Dev 0
200
100
0
−100
−200
−300
pull1D
Entries 89
Mean −4.462
Std Dev 1.316
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

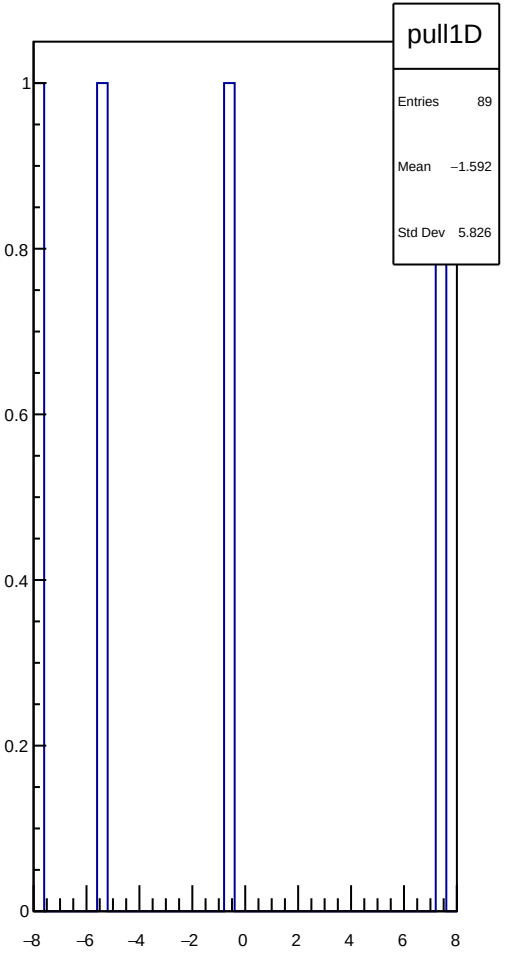

yield_bcm_an_us_rms vs run
χ² / ndf 7997 / 88
p0 0.5701 ± 0.0004338
0.66
0.64
0.62
0.6
0.58
0.56
0.54
0.52
0.5
0.48

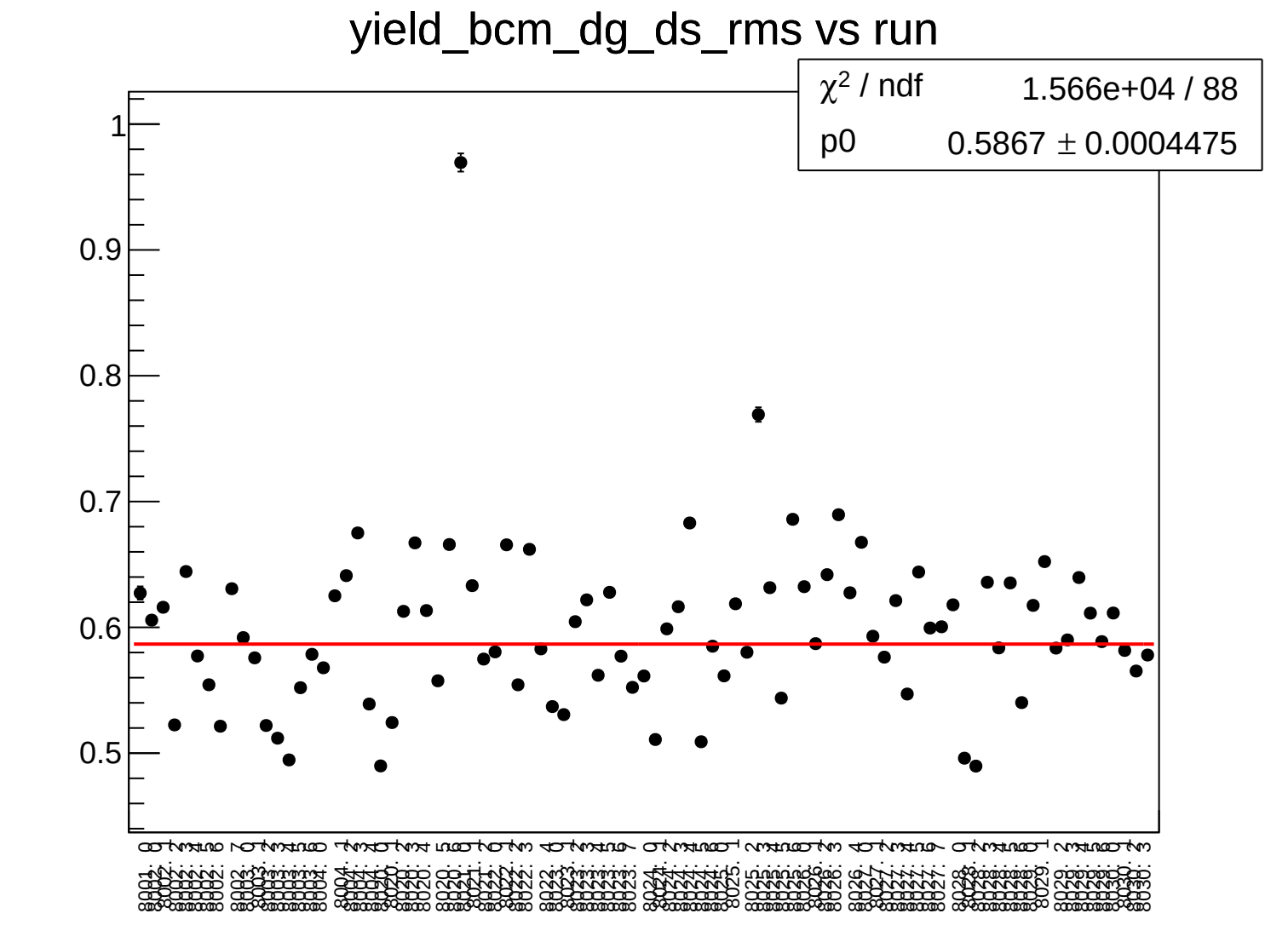

yield_bcm_dg_us_mean vs run
χ² / ndf 1.854e+06 / 88
p0 144.7 ± 0.0006252
146.5
146
145.5
145
144.5
144
143.5
143
142.5
pull
Entries 89
Mean −521.2
Std Dev 0
200
100
0
−100
−200
−300

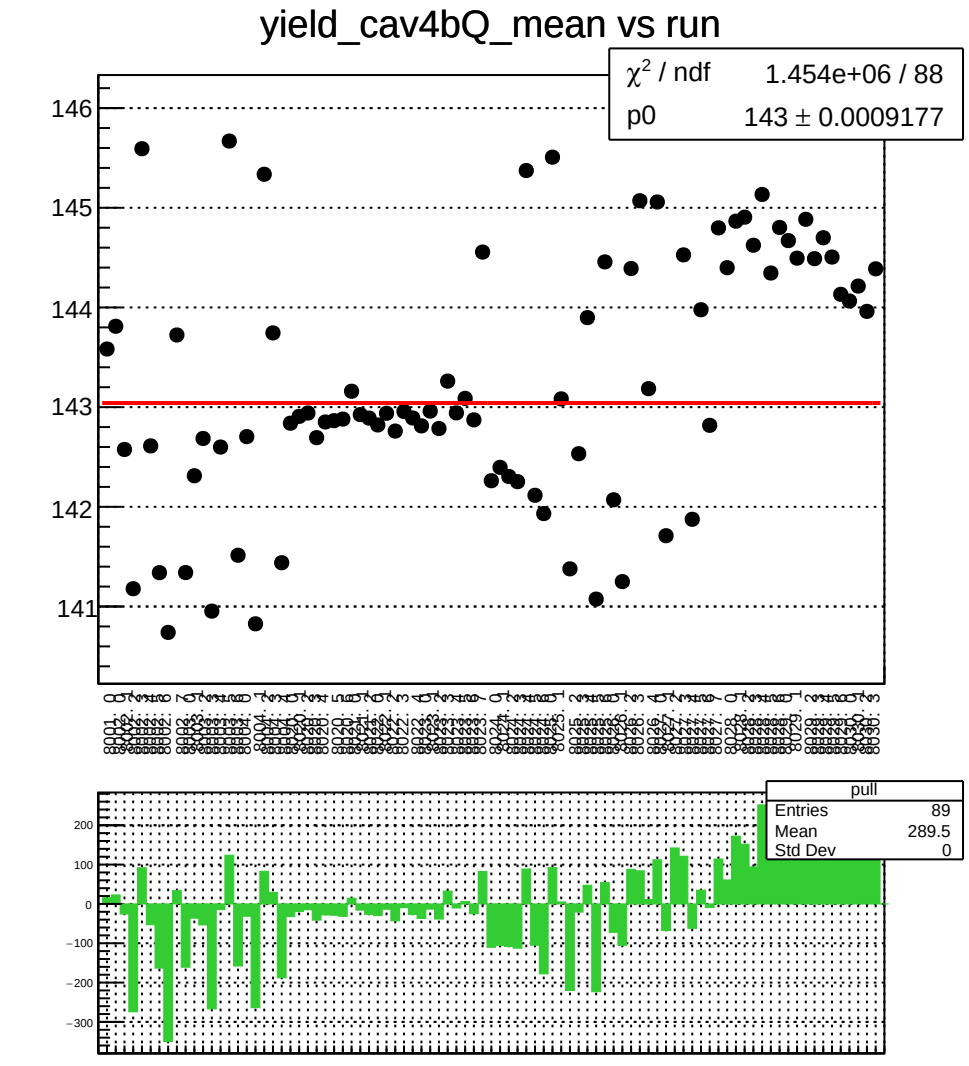

pull1D
Entries 89
Mean −2.586
Std Dev 4.748
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

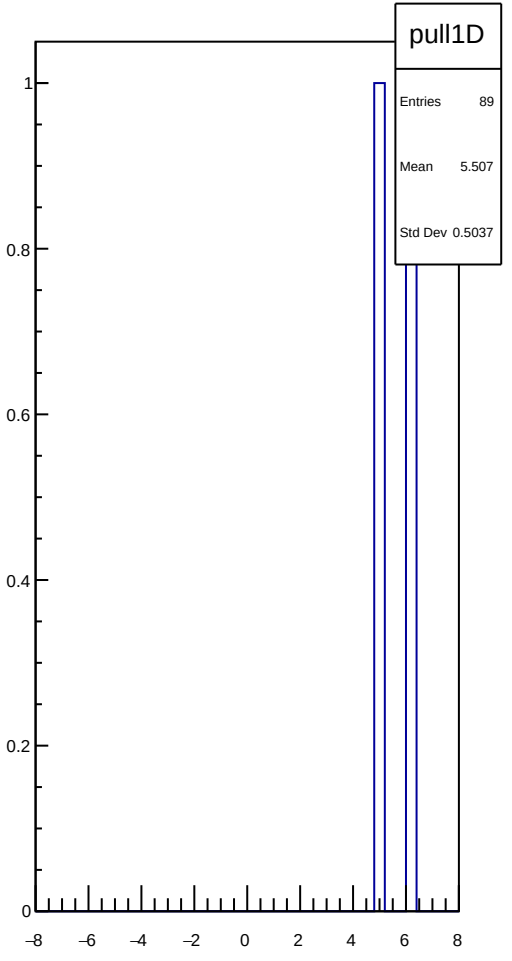

yield_bcm_dg_us_rms vs run
χ² / ndf 1.391e+04 / 88
p0 0.5799 ± 0.0004421
0.9
0.85
0.8
0.75
0.7
0.65
0.6
0.55
0.5
0.45

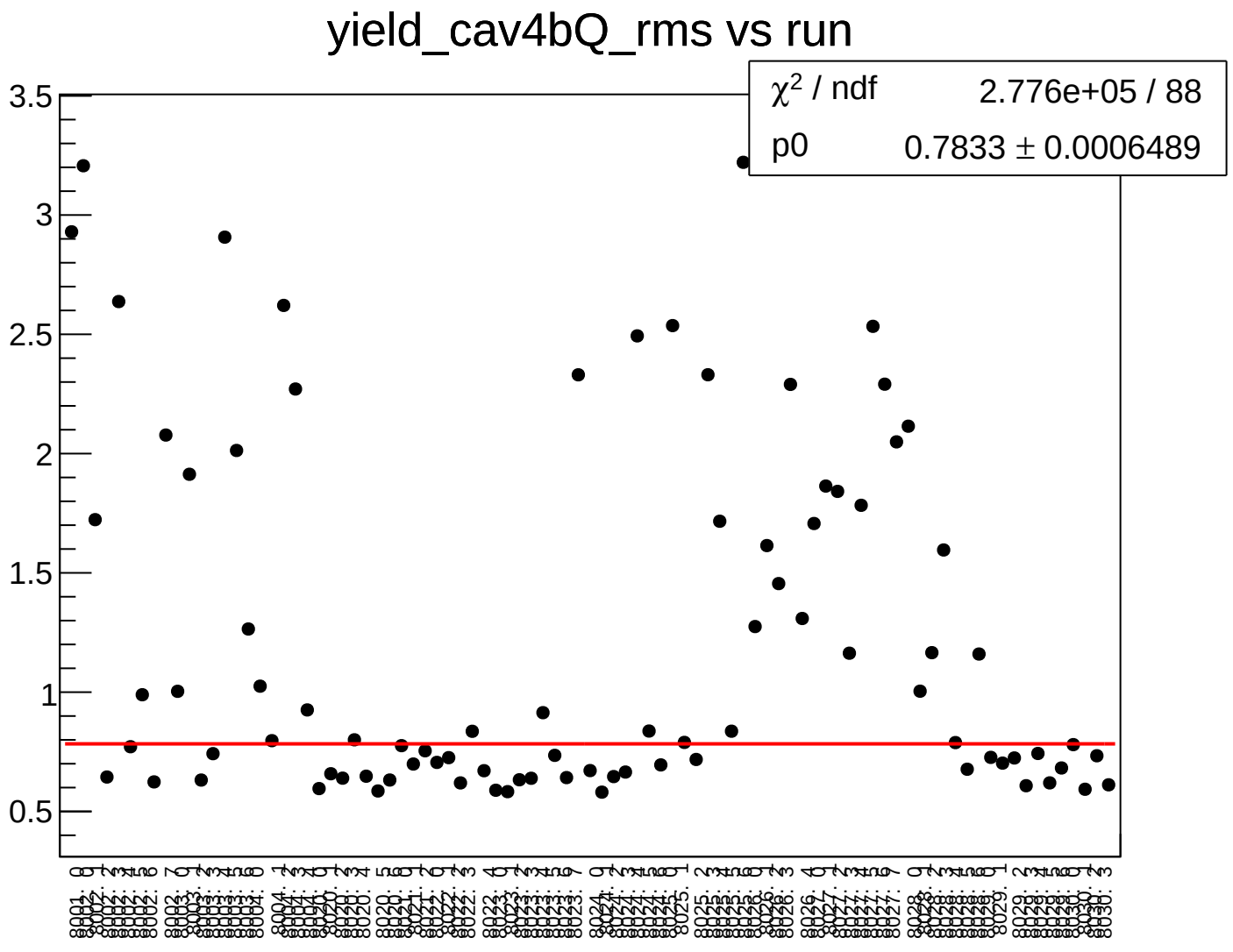

yield_bcm_dg_ds_mean vs run
χ² / ndf 2.082e+06 / 88
p0 144.5 ± 0.0006328
146.5
146
145.5
145
144.5
144
143.5
143
142.5
142
pull
Entries 89
Mean −364.1
Std Dev 0
300
200
100
0
−100
−200
−300
−400

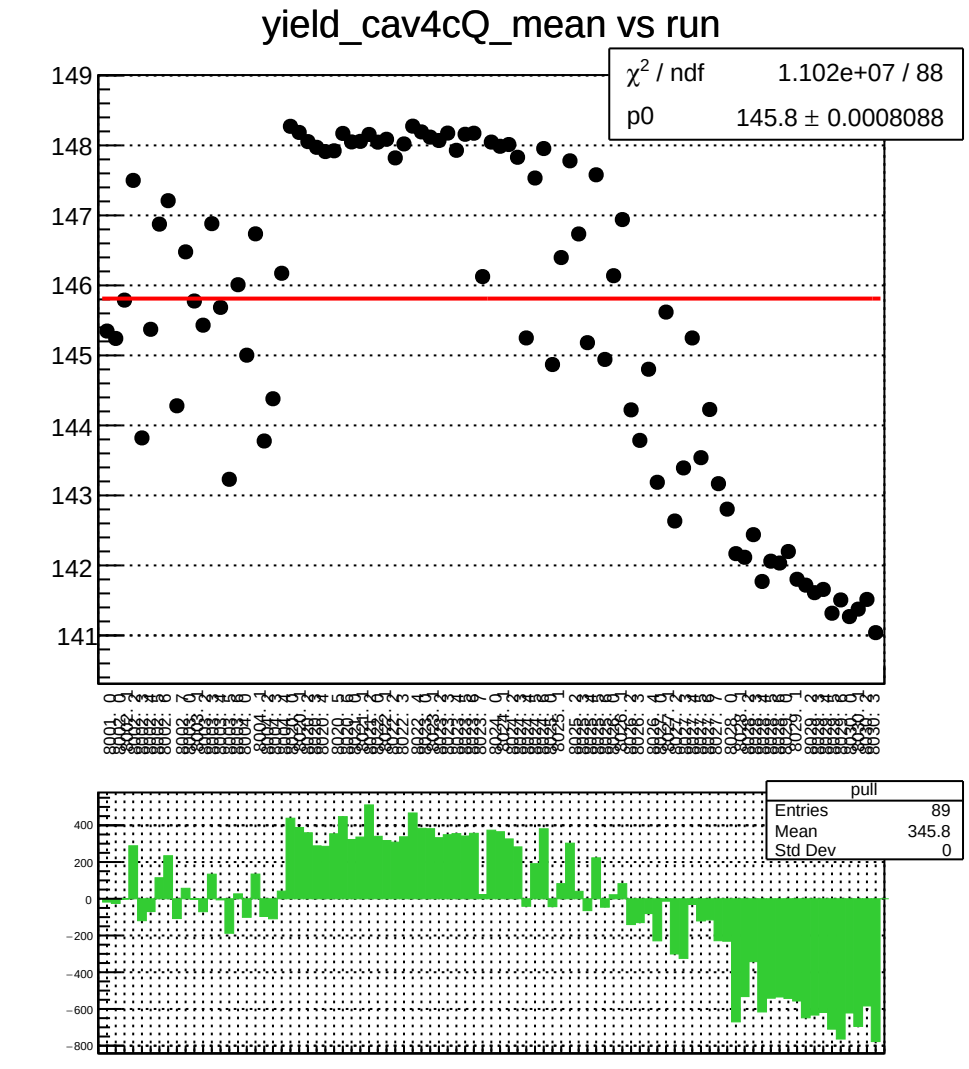

pull1D
Entries 89
Mean −1.592
Std Dev 5.826
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

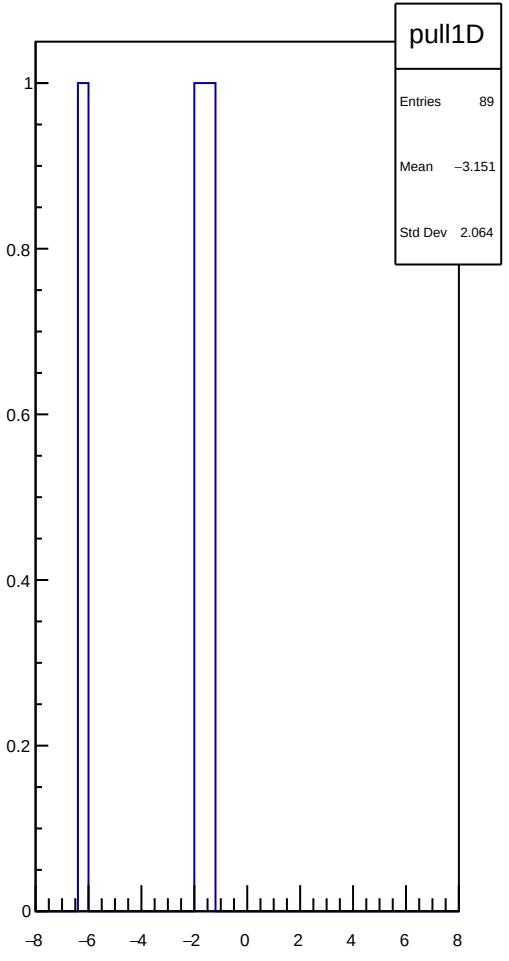

yield_bcm_dg_ds_rms vs run
χ² / ndf 1.566e+04 / 88
p0 0.5867 ± 0.0004475
1
0.9
0.8
0.7
0.6
0.5

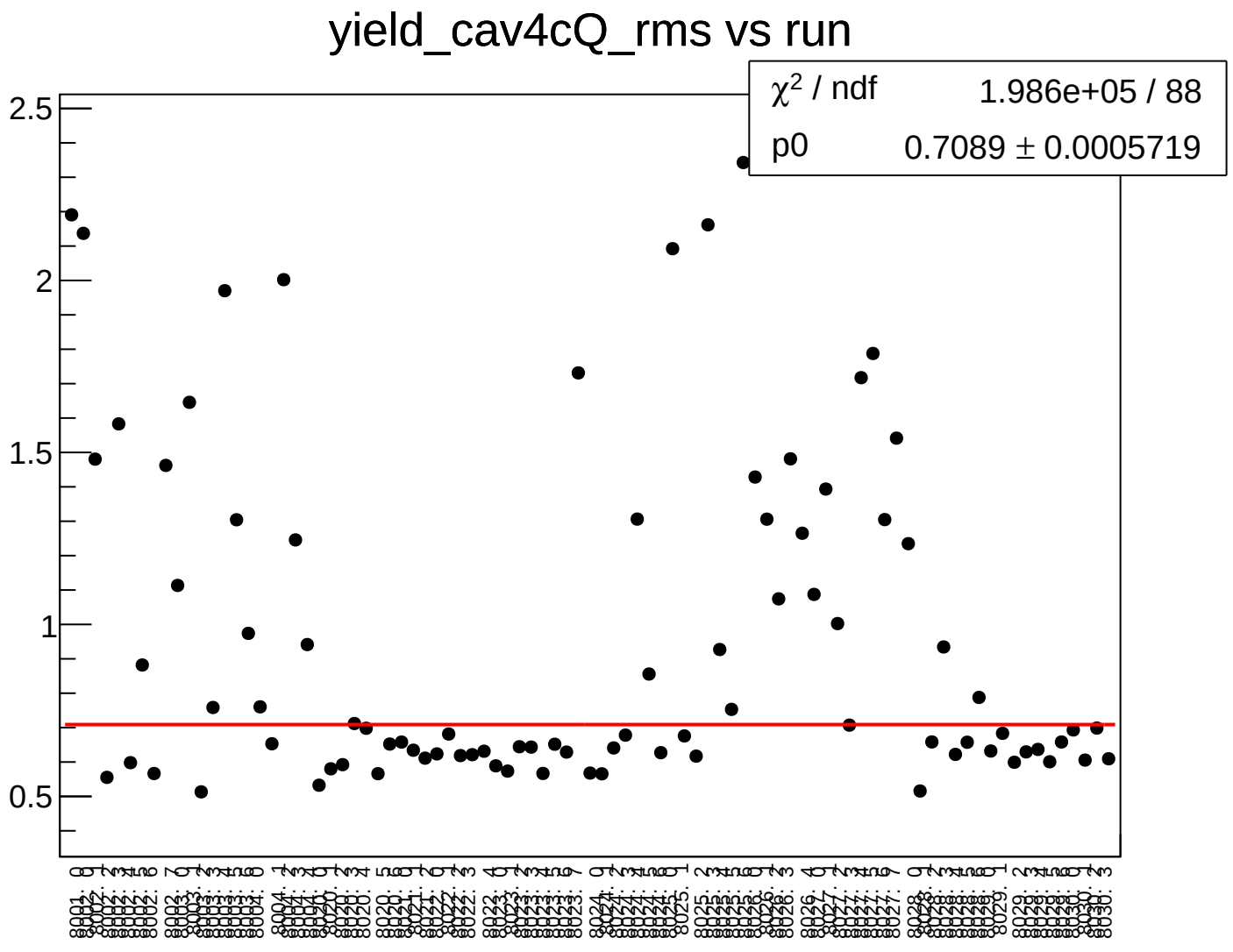

yield_cav4bQ_mean vs run
χ² / ndf 1.454e+06 / 88
p0 143 ± 0.0009177
146
145
144
143
142
141
pull
Entries 89
Mean 289.5
Std Dev 0
200
100
0
−100
−200
−300

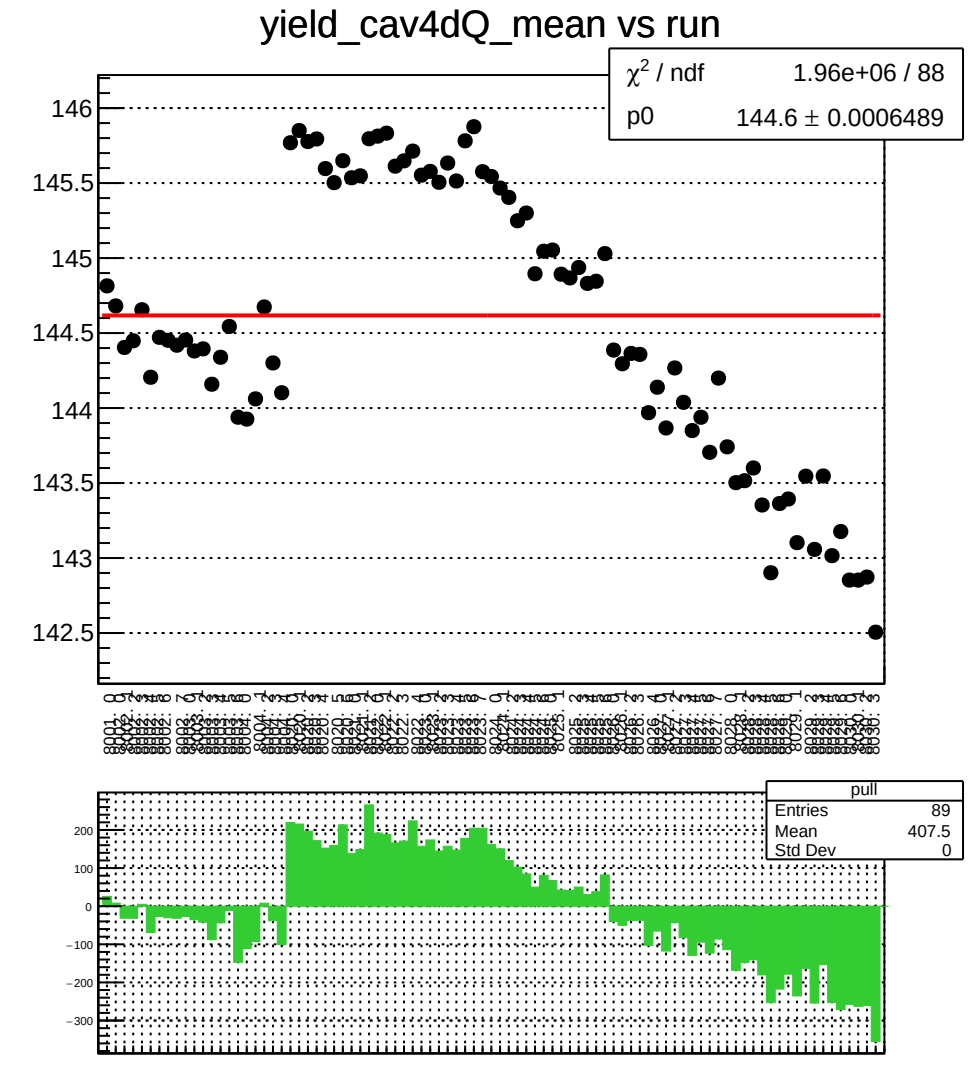

pull1D
Entries 89
Mean 5.507
Std Dev 0.5037
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

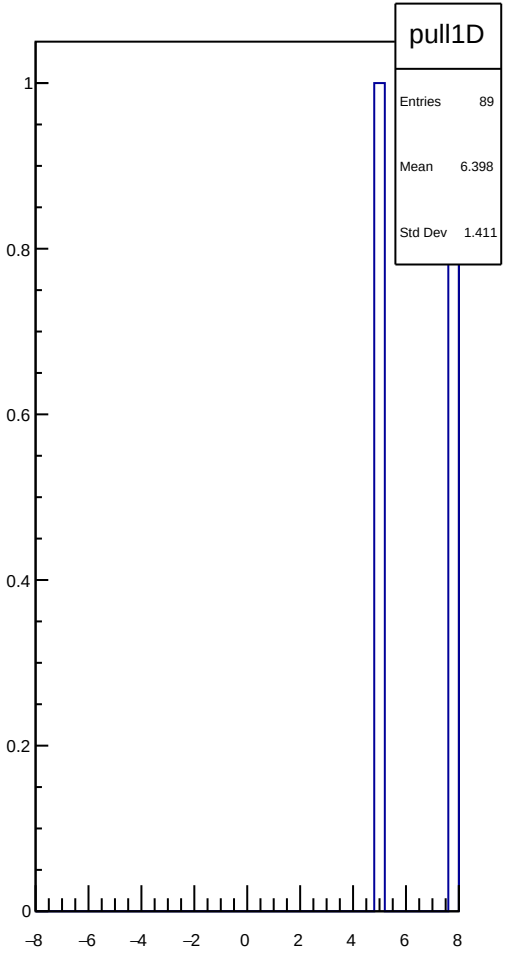

yield_cav4bQ_rms vs run
χ² / ndf 2.776e+05 / 88
p0 0.7833 ± 0.0006489
3.5
3
2.5
2
1.5
1
0.5

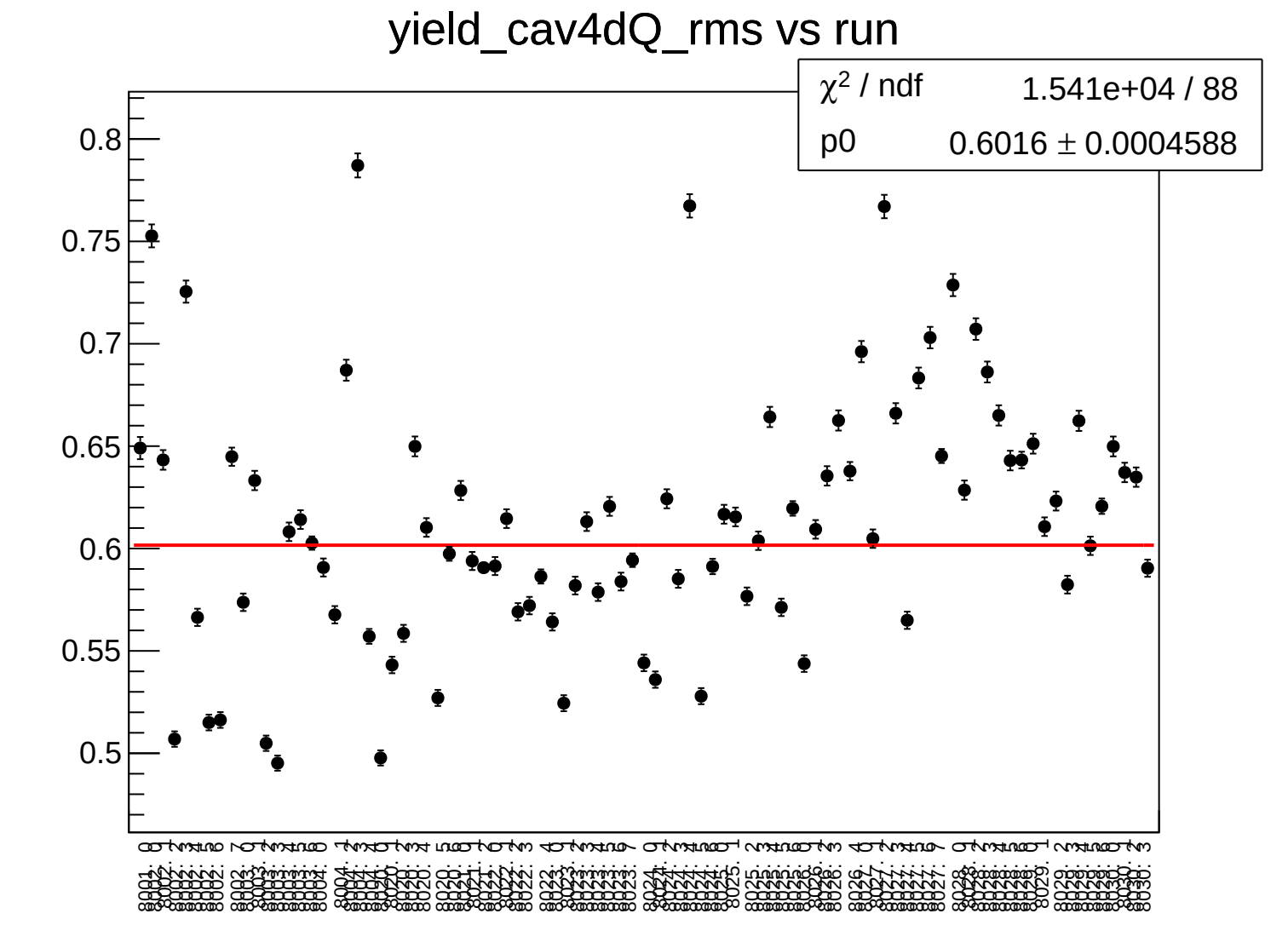

yield_cav4cQ_mean vs run
χ² / ndf 1.102e+07 / 88
p0 145.8 ± 0.0008088
149
148
147
146
145
144
143
142
141
pull
Entries 89
Mean 345.8
Std Dev 0
400
200
0
−200
−400
−600
−800

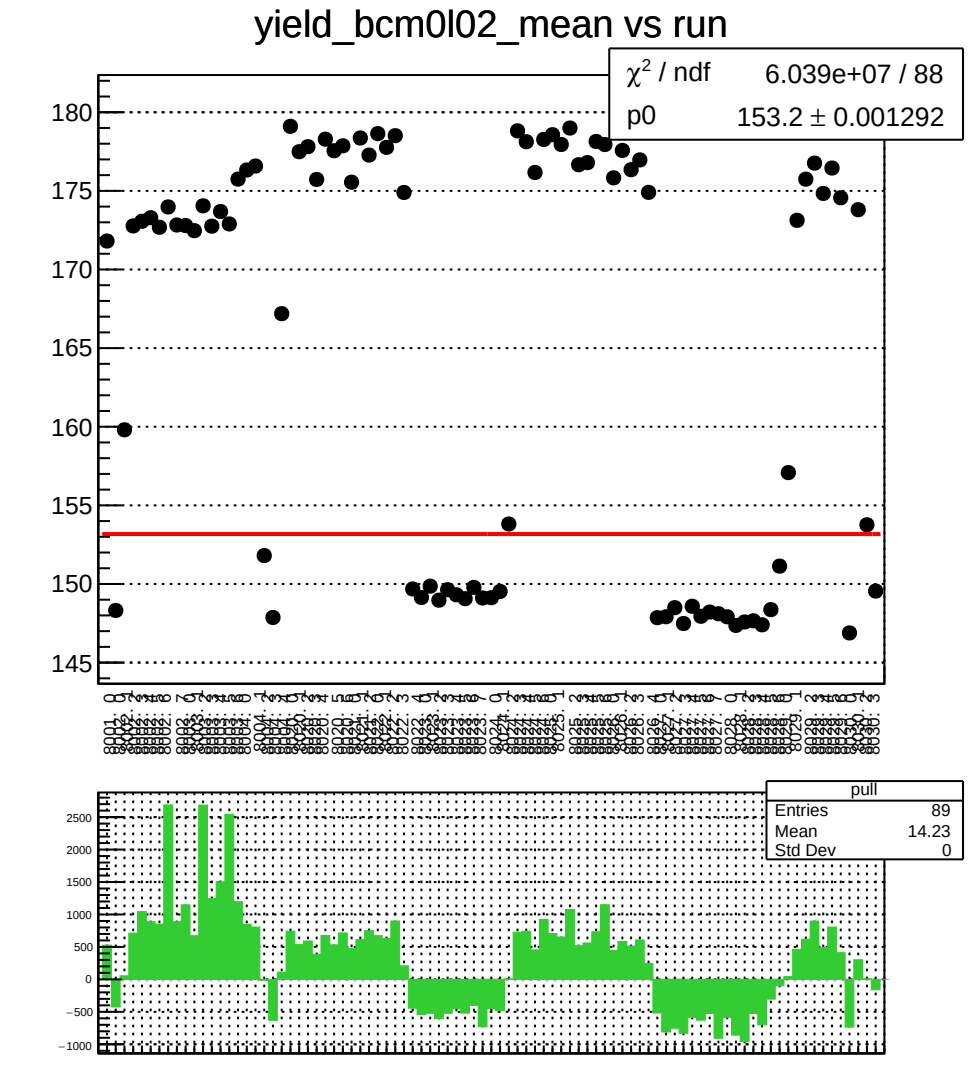

pull1D
Entries 89
Mean −3.151
Std Dev 2.064
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

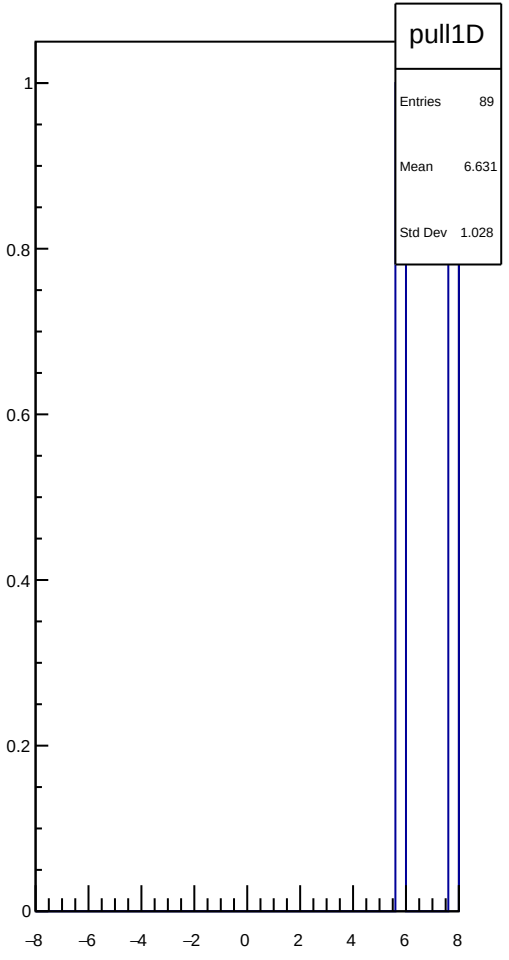

yield_cav4cQ_rms vs run
χ² / ndf 1.986e+05 / 88
p0 0.7089 ± 0.0005719
2.5
2
1.5
1
0.5

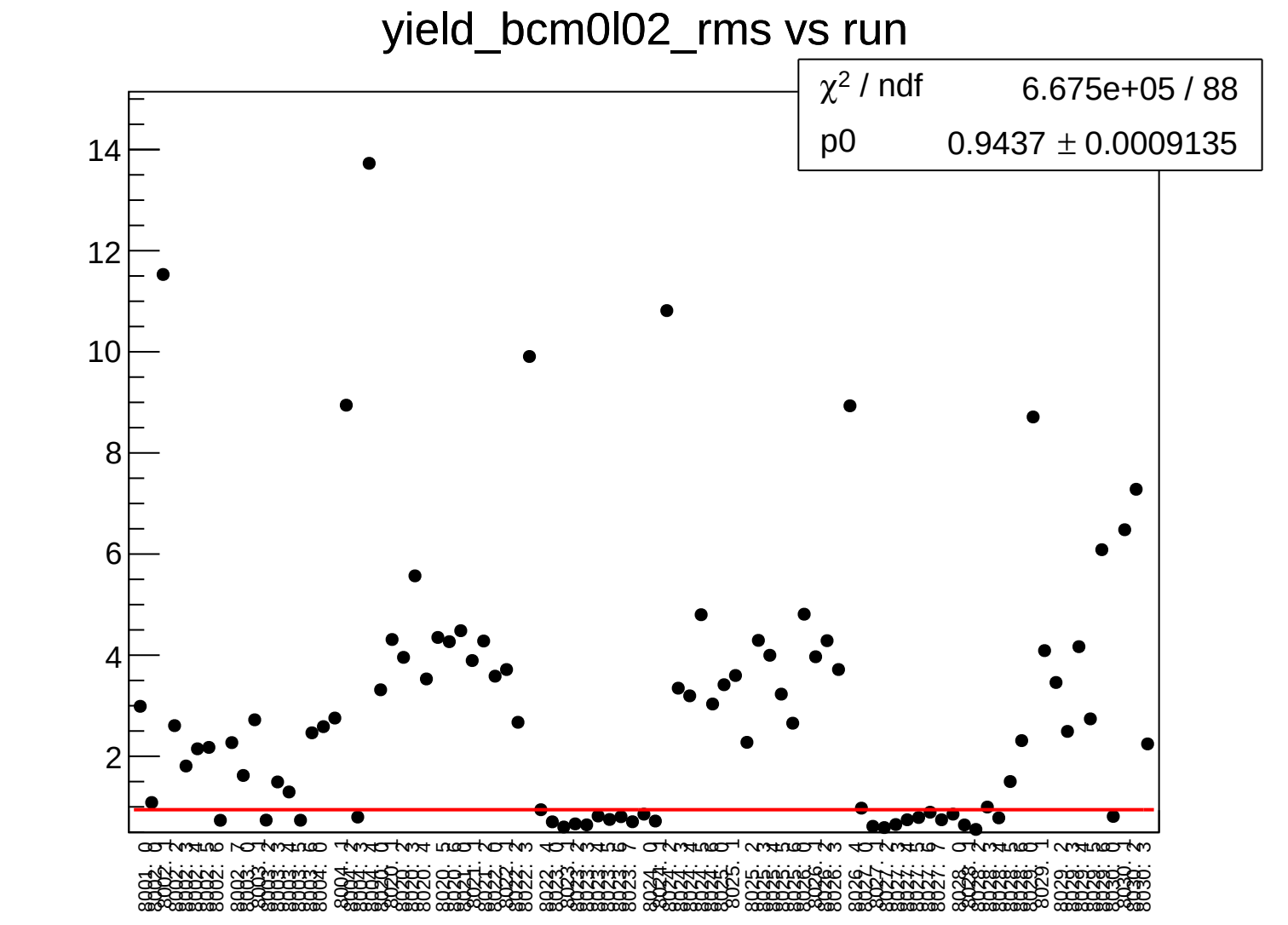

yield_cav4dQ_mean vs run
χ² / ndf 1.96e+06 / 88
p0 144.6 ± 0.0006489
146
145.5
145
144.5
144
143.5
143
142.5
pull
Entries 89
Mean 407.5
Std Dev 0
200
100
0
−100
−200
−300

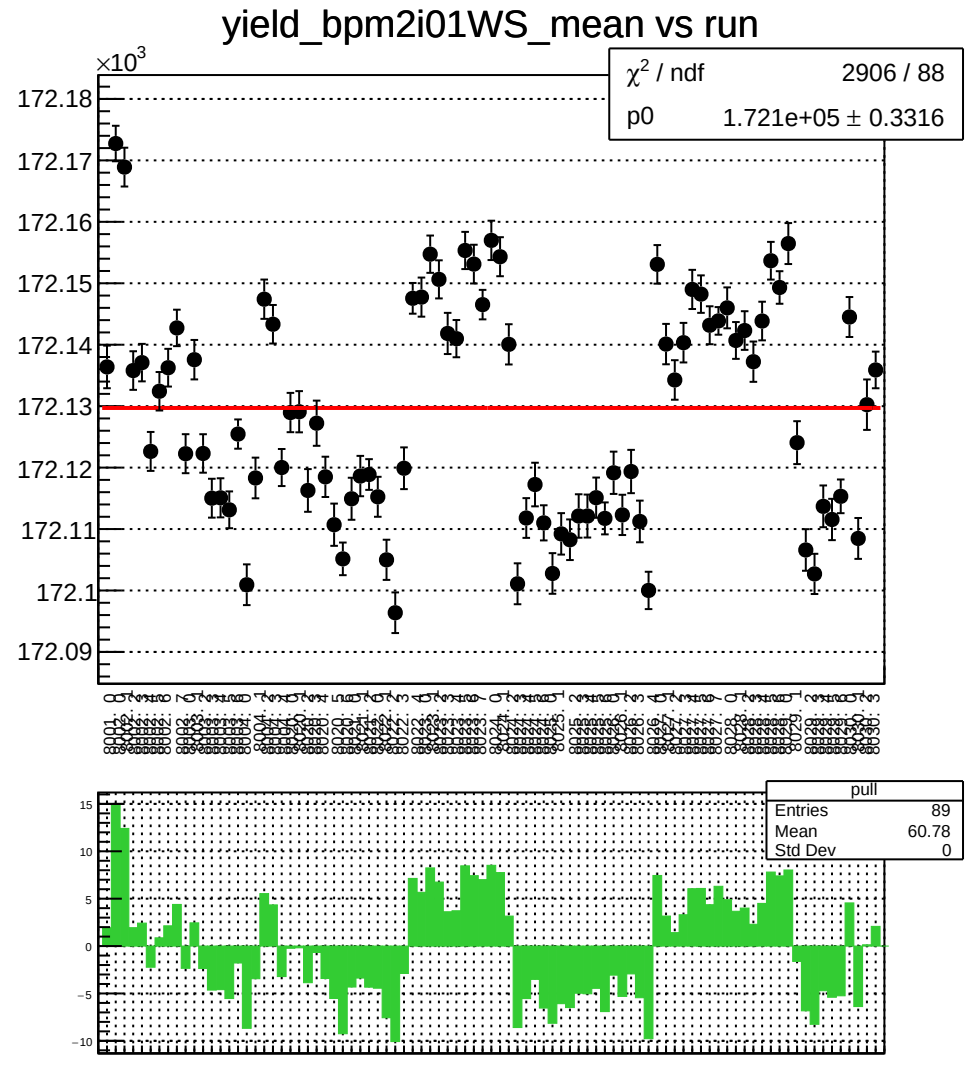

pull1D
Entries 89
Mean 6.398
Std Dev 1.411
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

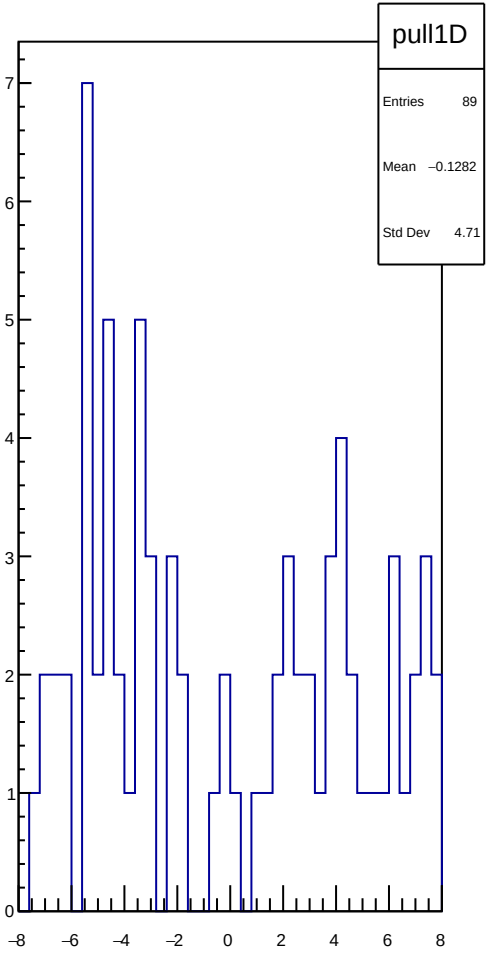

yield_cav4dQ_rms vs run
χ² / ndf 1.541e+04 / 88
p0 0.6016 ± 0.0004588
0.8
0.75
0.7
0.65
0.6
0.55
0.5

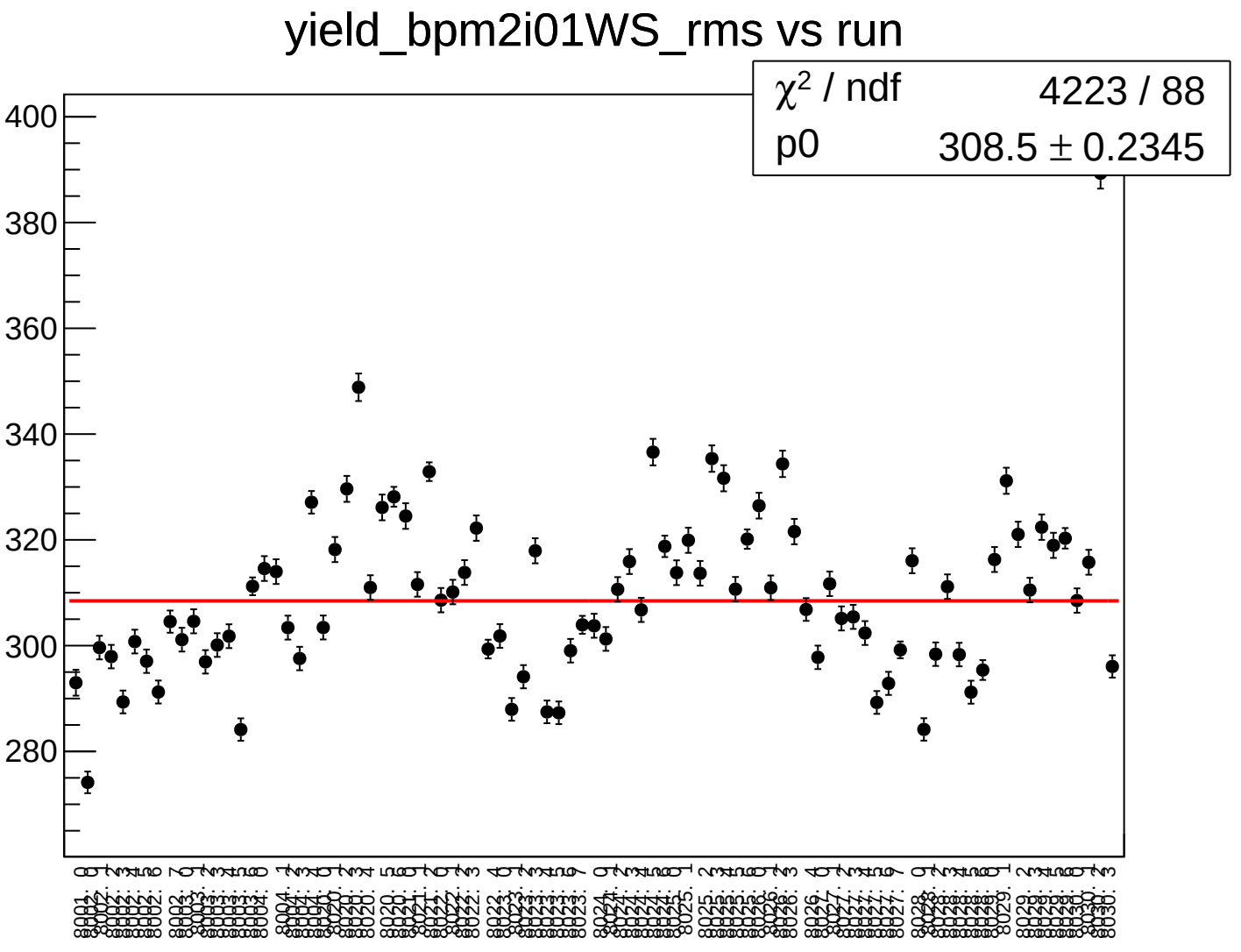

yield_bcm0l02_mean vs run
χ² / ndf 6.039e+07 / 88
p0 153.2 ± 0.001292
180
175
170
165
160
155
150
145
pull
Entries 89
Mean 14.23
Std Dev 0
2500
2000
1500
1000
500
0
−500
−1000

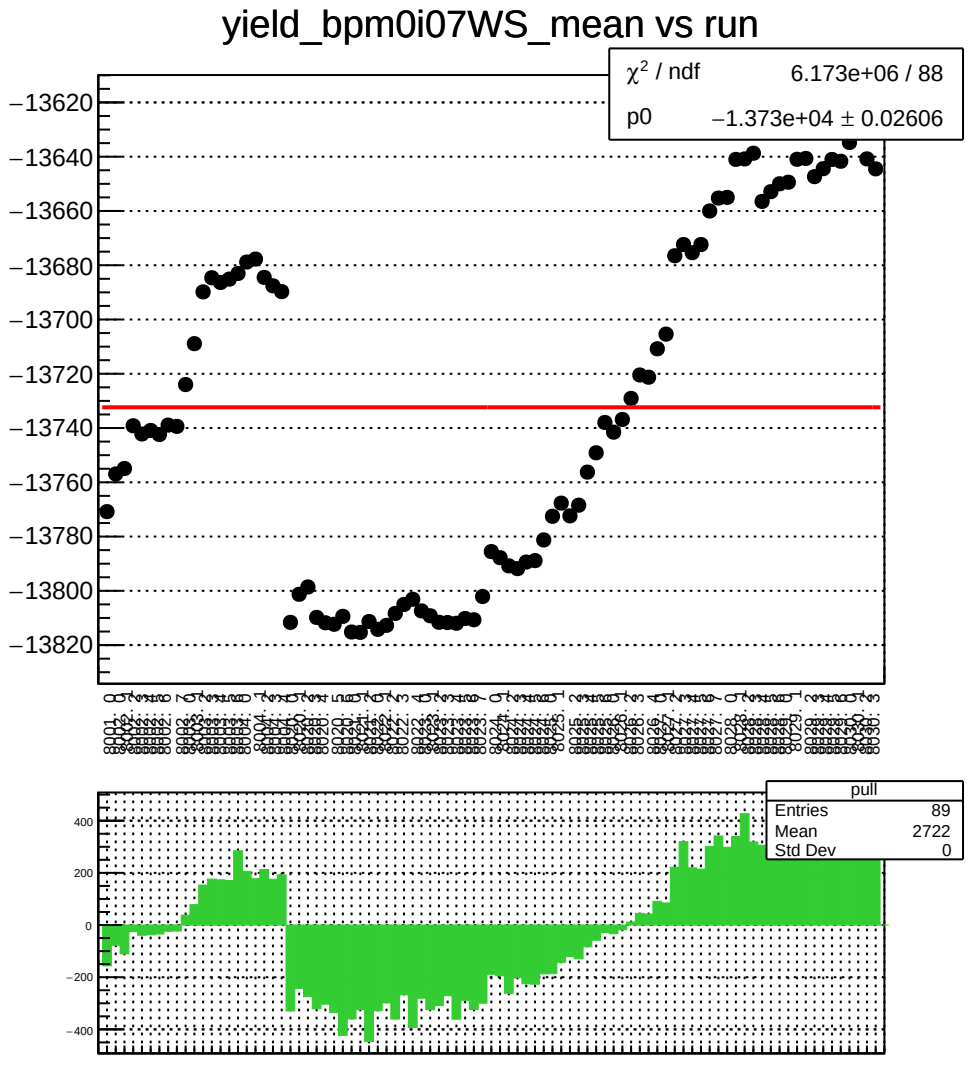

pull1D
Entries 89
Mean 6.631
Std Dev 1.028
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

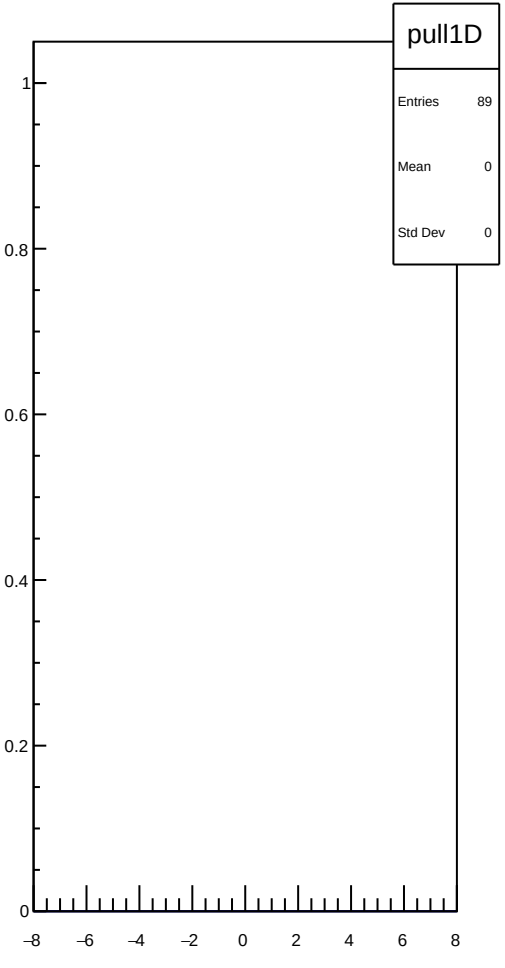

yield_bcm0l02_rms vs run
χ² / ndf 6.675e+05 / 88
p0 0.9437 ± 0.0009135
14
12
10
8
6
4
2

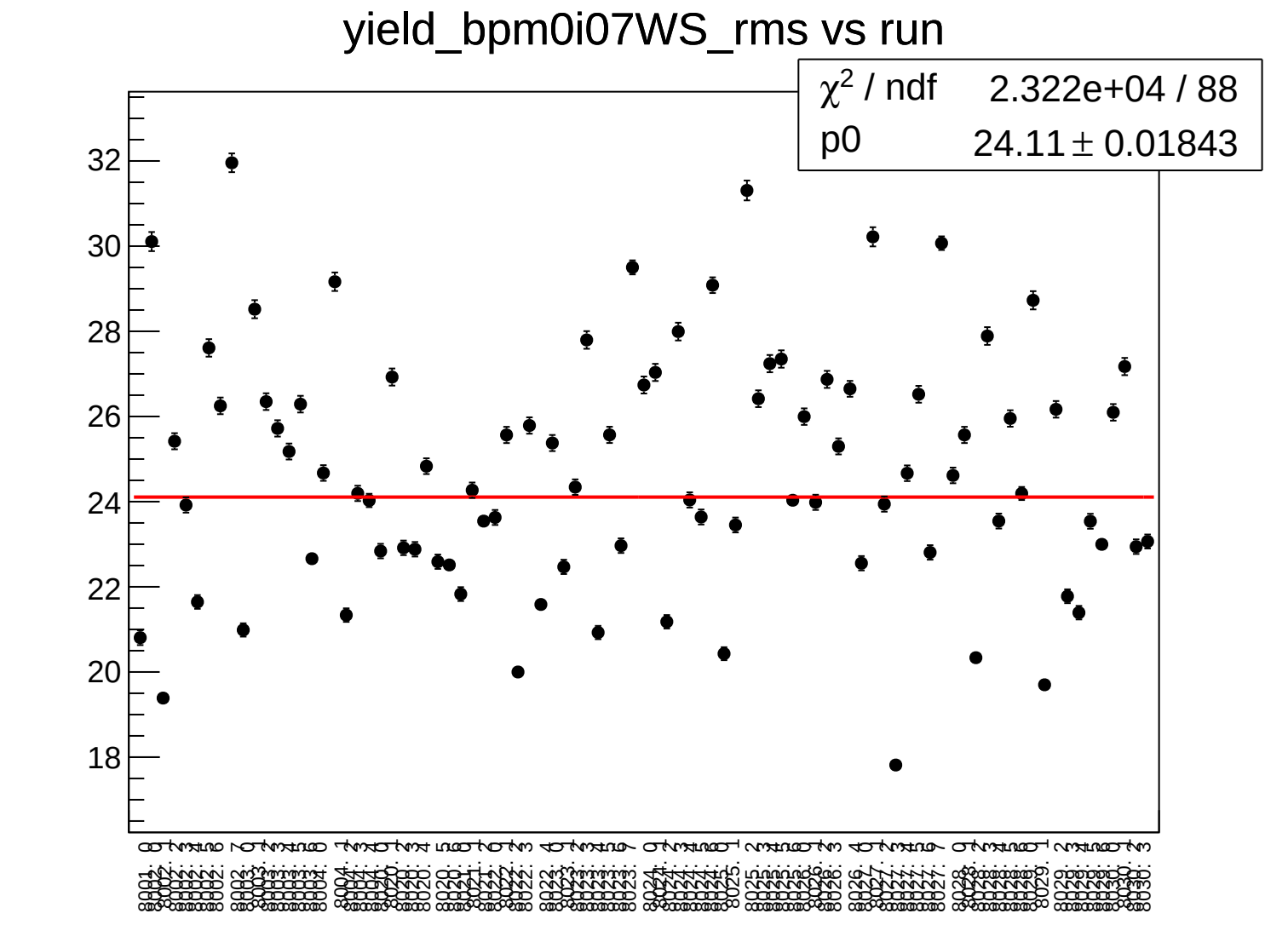

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 2906 / 88
p0 1.721e+05 ± 0.3316
172.18
172.17
172.16
172.15
172.14
172.13
172.12
172.11
172.1
172.09
pull
Entries 89
Mean 60.78
Std Dev 0
15
10
5
0
−5
−10

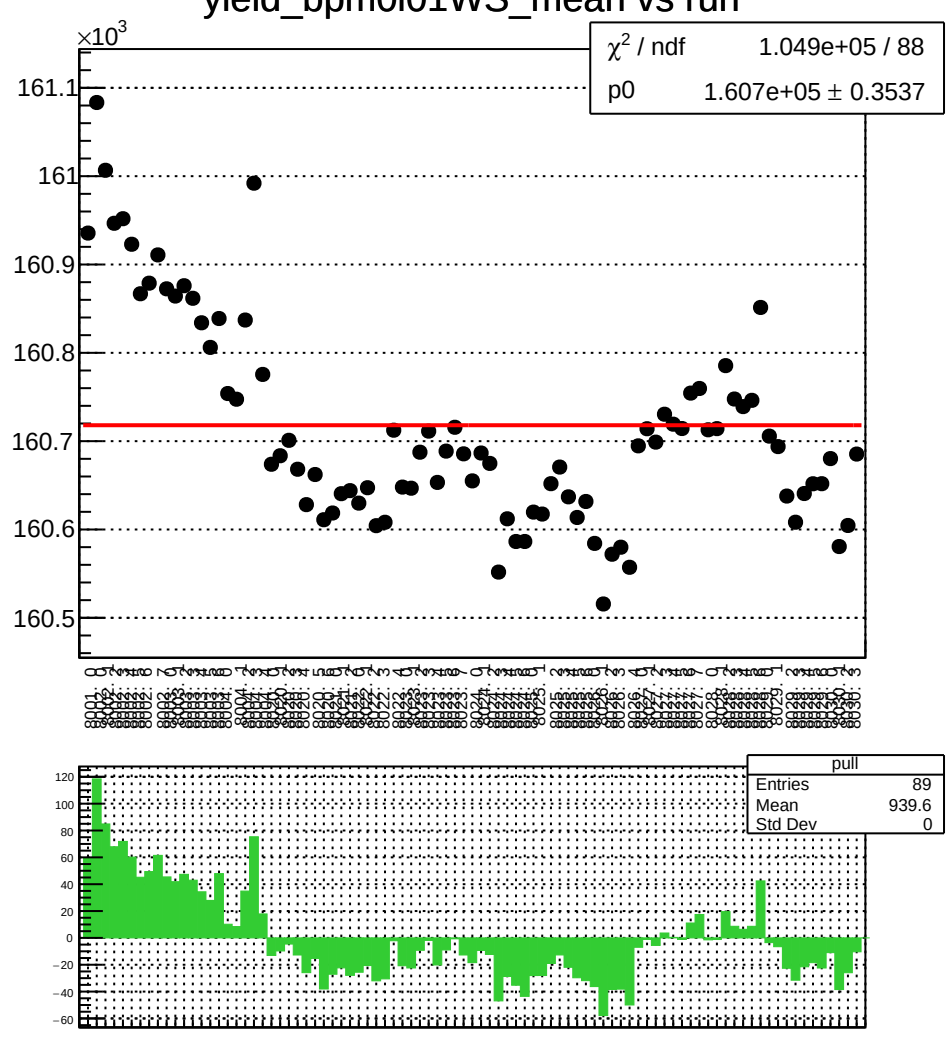

pull1D
Entries 89
Mean −0.1282
Std Dev 4.71
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

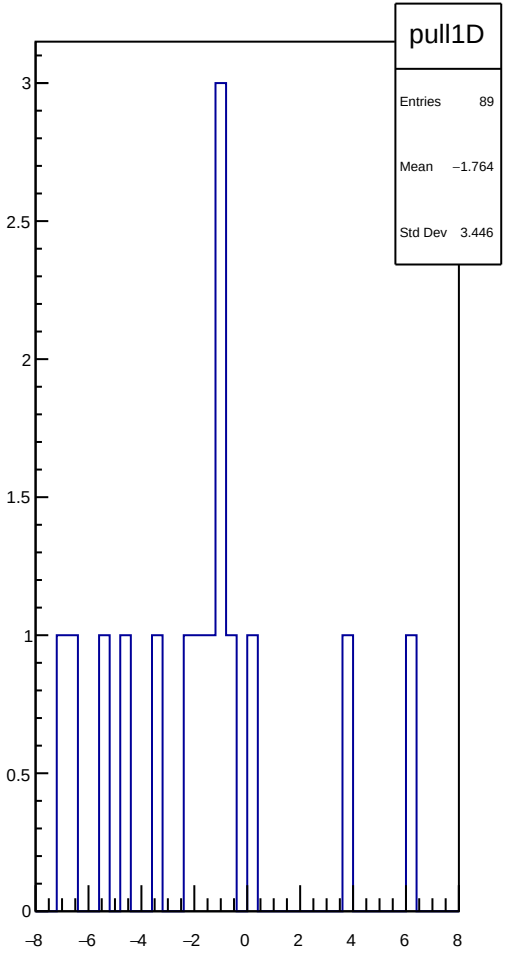

yield_bpm2i01WS_rms vs run
χ² / ndf 4223 / 88
p0 308.5 ± 0.2345
400
380
360
340
320
300
280

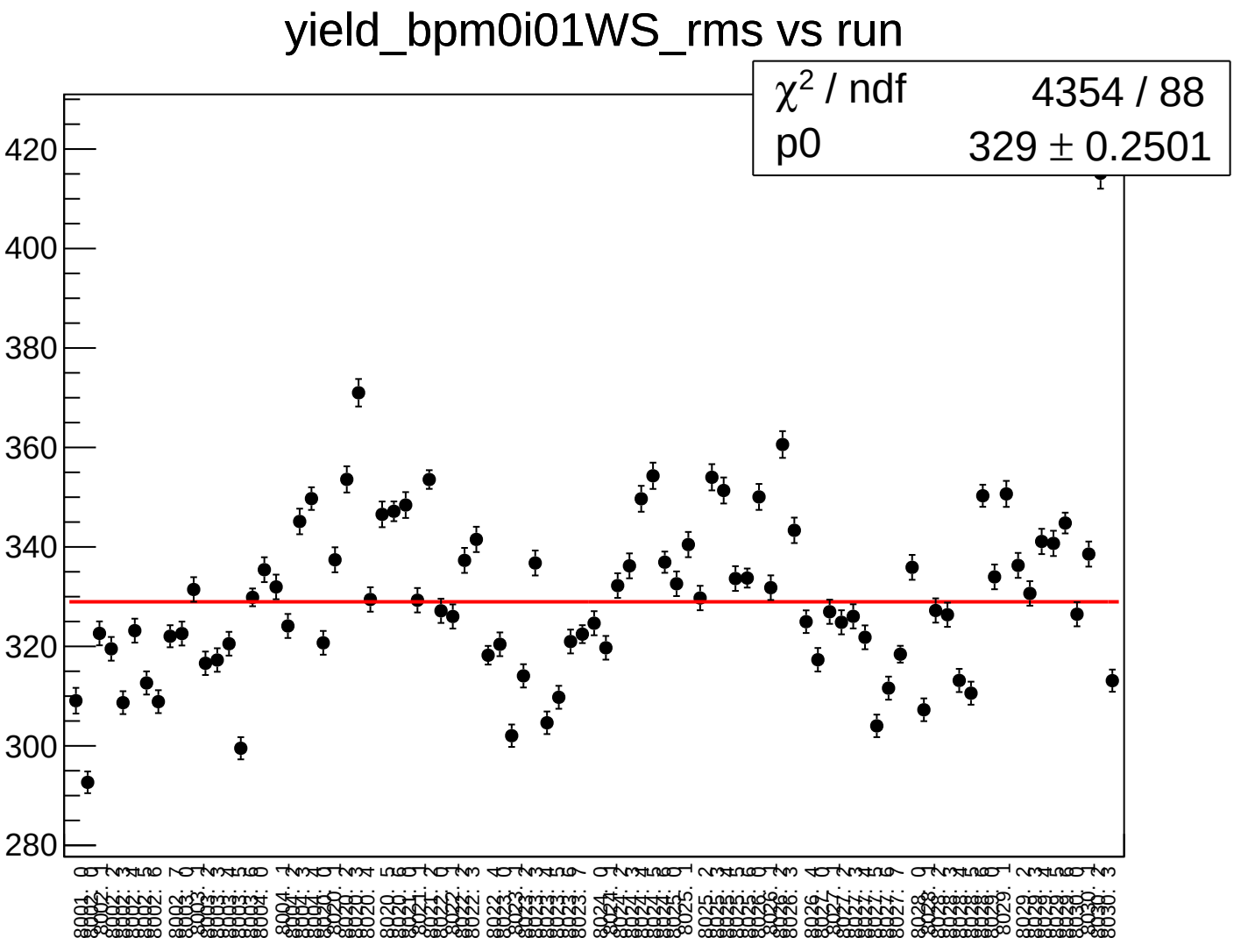

yield_bpm0i07WS_mean vs run
χ² / ndf 6.173e+06 / 88
p0 −1.373e+04 ± 0.02606
pull
Entries 89
Mean 2722
Std Dev 0

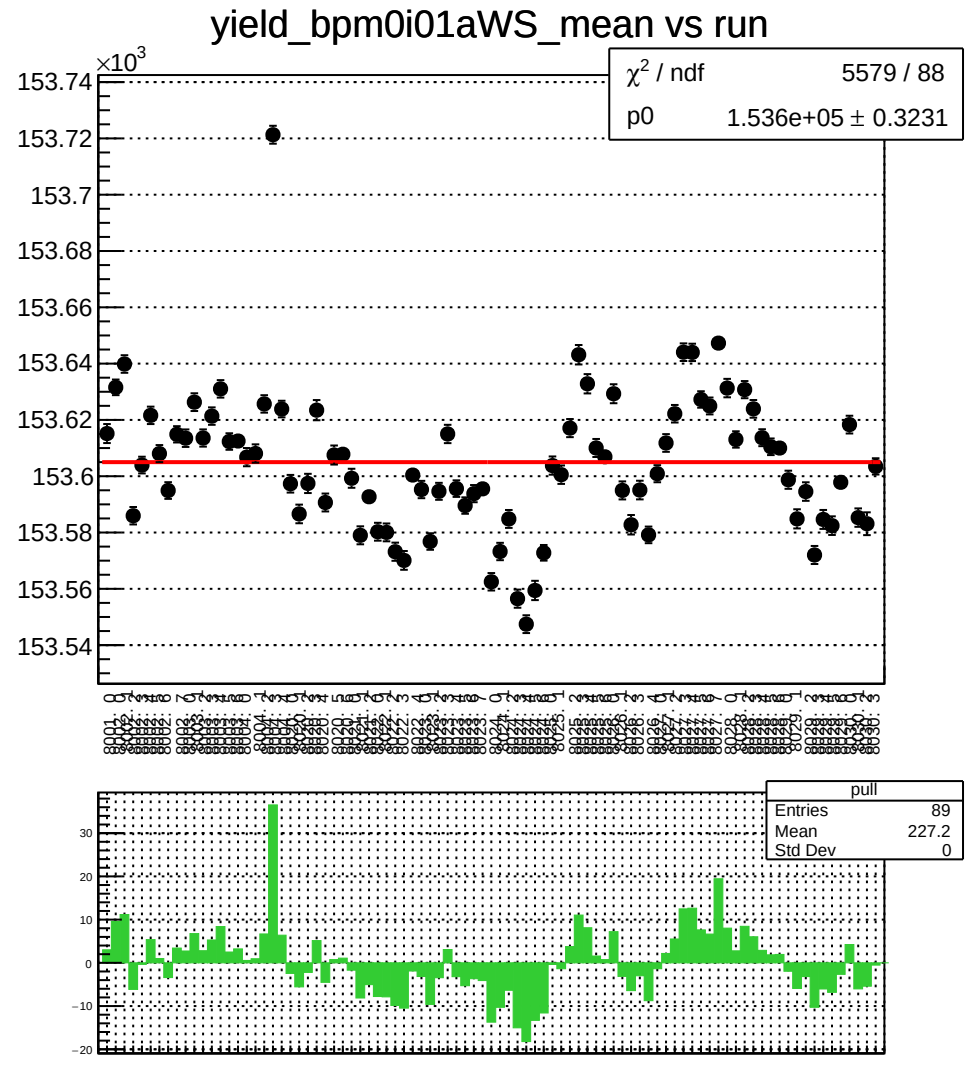

pull1D
Entries 89
Mean 0
Std Dev 0

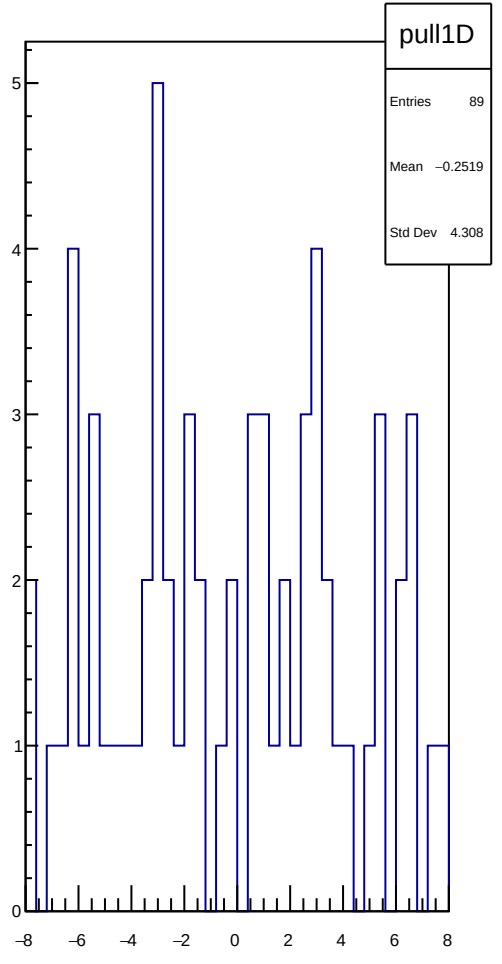

yield_bpm0i07WS_rms vs run
χ² / ndf 2.322e+04 / 88
p0 24.11 ± 0.01843
32
30
28
26
24
22
20
18

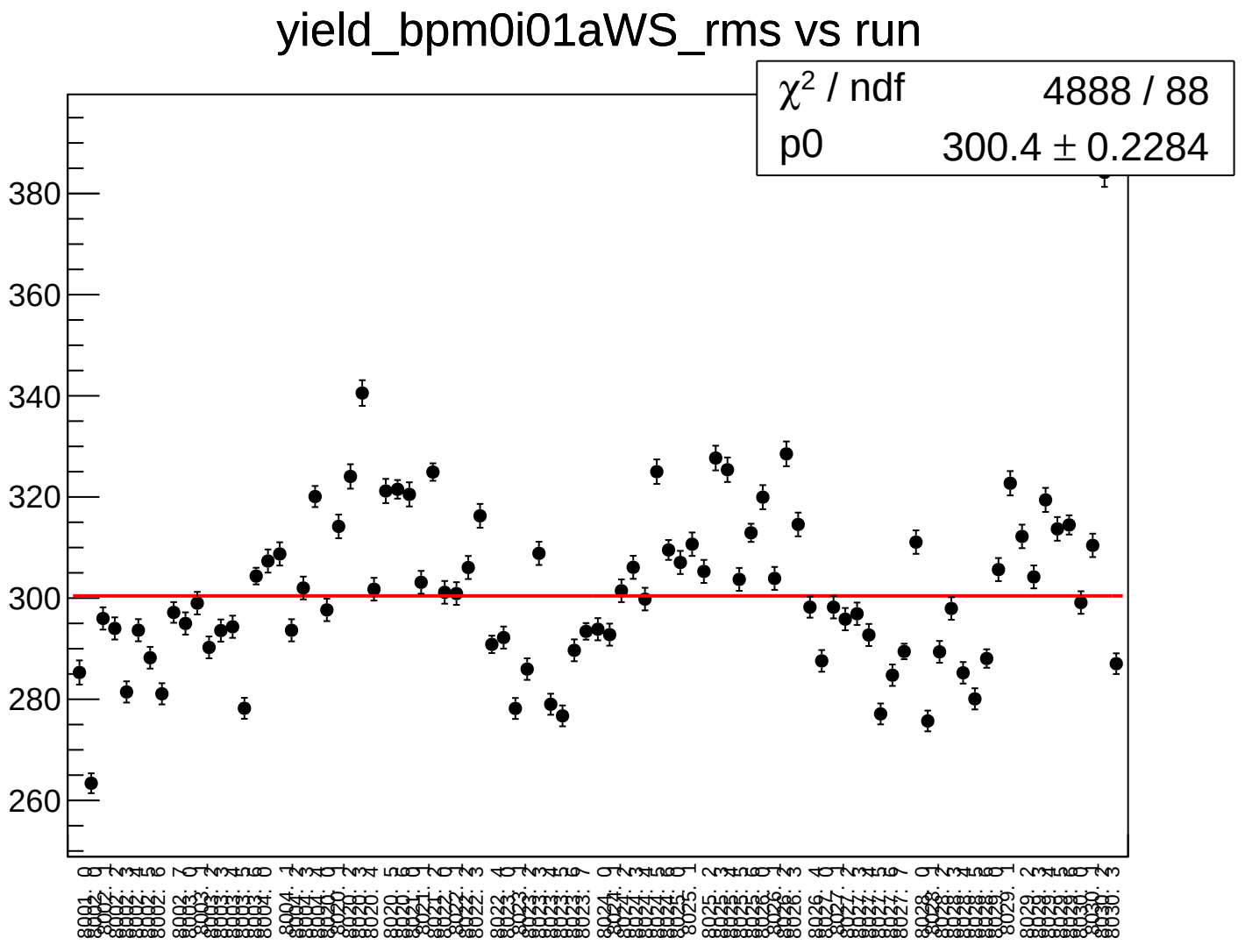

yield_bpm0i01WS_mean vs run
×10^3
χ² / ndf 1.049e+05 / 88
p0 1.607e+05 ± 0.3537
161.1
161
160.9
160.8
160.7
160.6
160.5
pull
Entries 89
Mean 939.6
Std Dev 0
120
100
80
60
40
20
0
−20
−40
−60

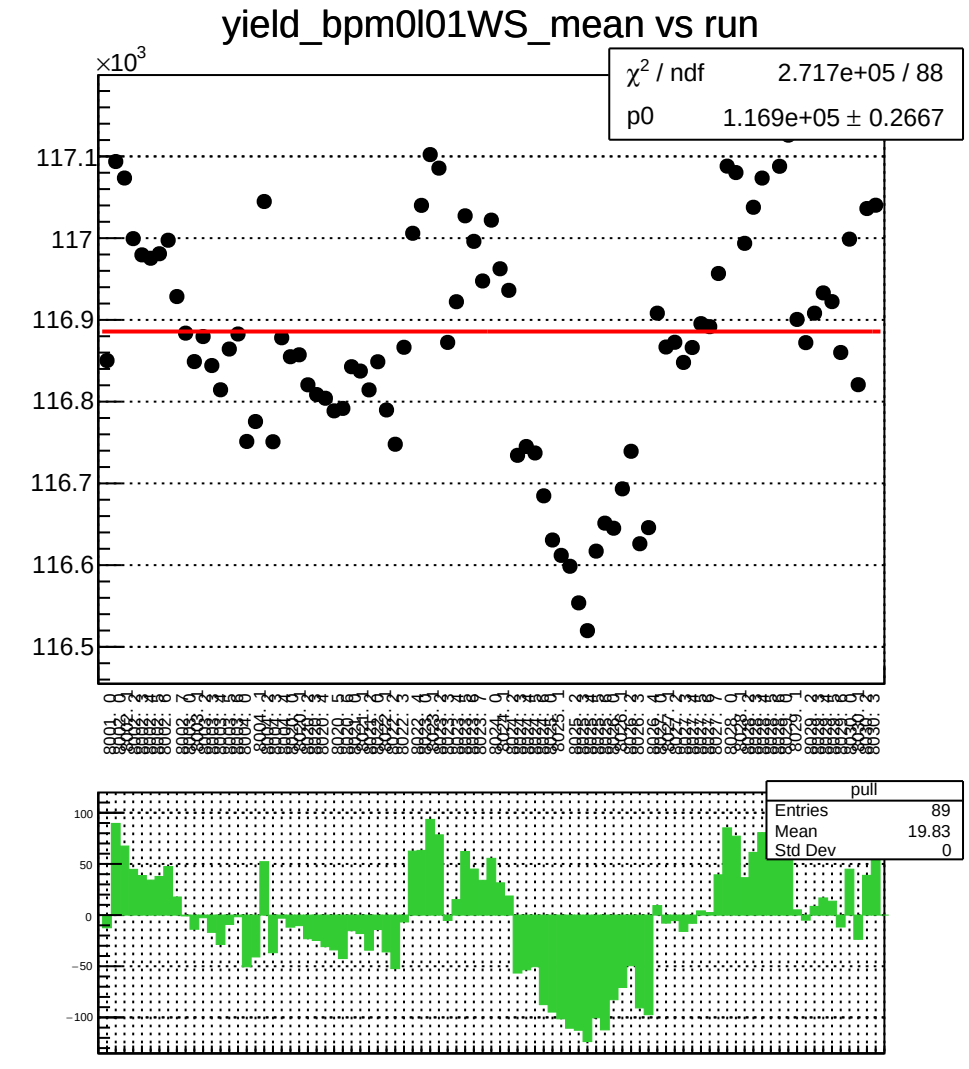

pull1D
Entries 89
Mean −1.764
Std Dev 3.446
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

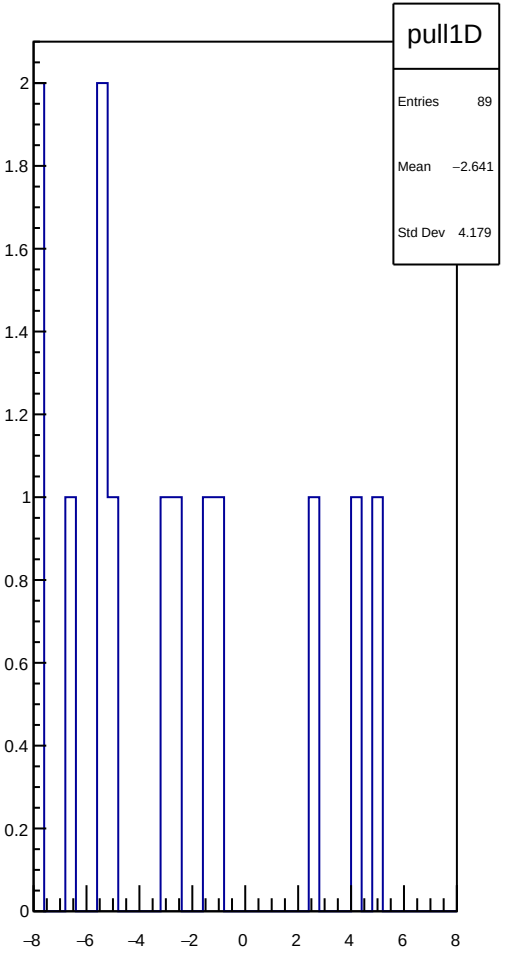

yield_bpm0i01WS_rms vs run
χ² / ndf 4354 / 88
p0 329 ± 0.2501
420
400
380
360
340
320
300
280

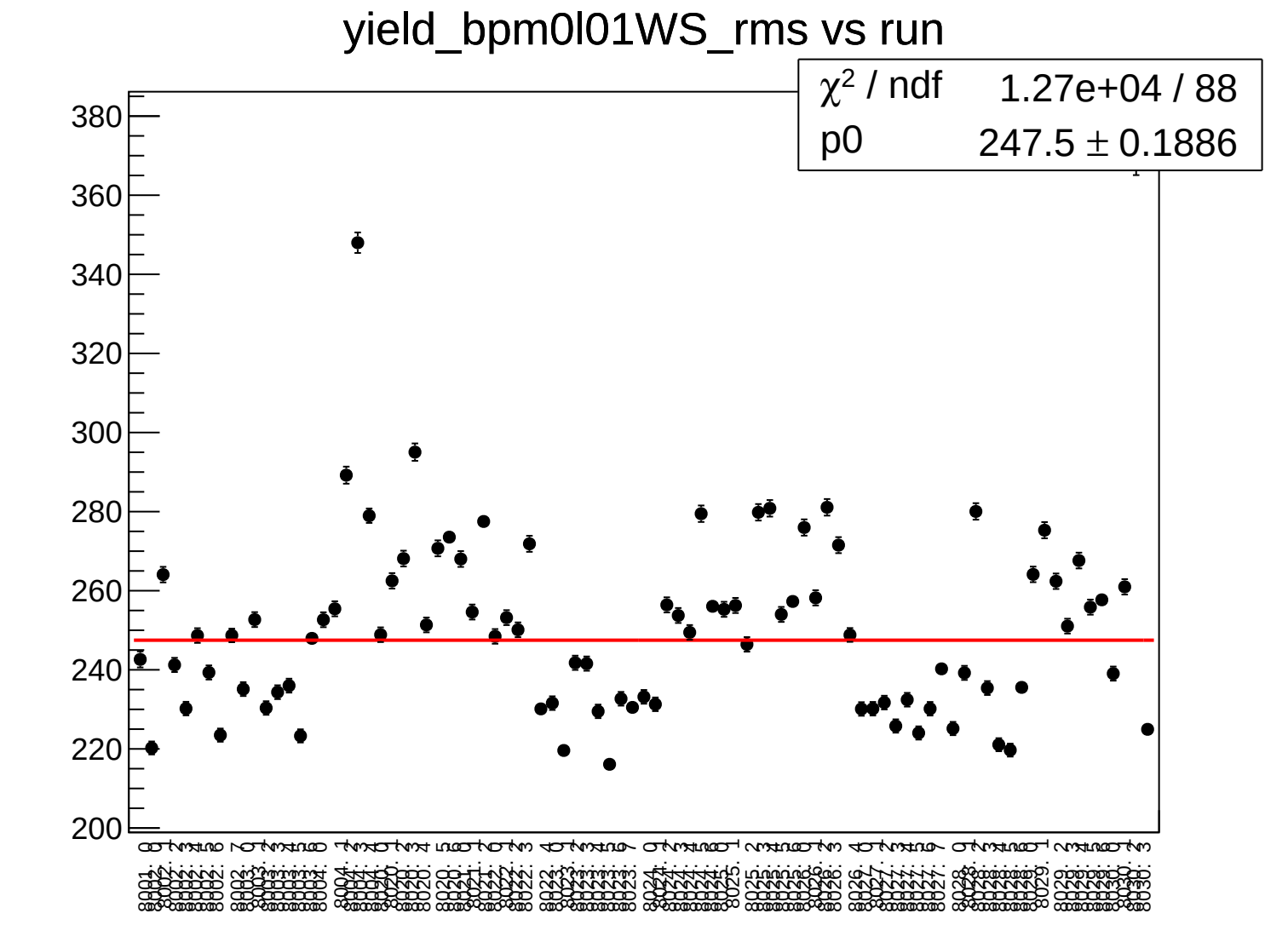

yield_bpm0i01aWS_mean vs run
×10^3
153.74
153.72
153.7
153.68
153.66
153.64
153.62
153.6
153.58
153.56
153.54
χ² / ndf 5579 / 88
p0 1.536e+05 ± 0.3231
pull
Entries 89
Mean 227.2
Std Dev 0
30
20
10
0
−10
−20

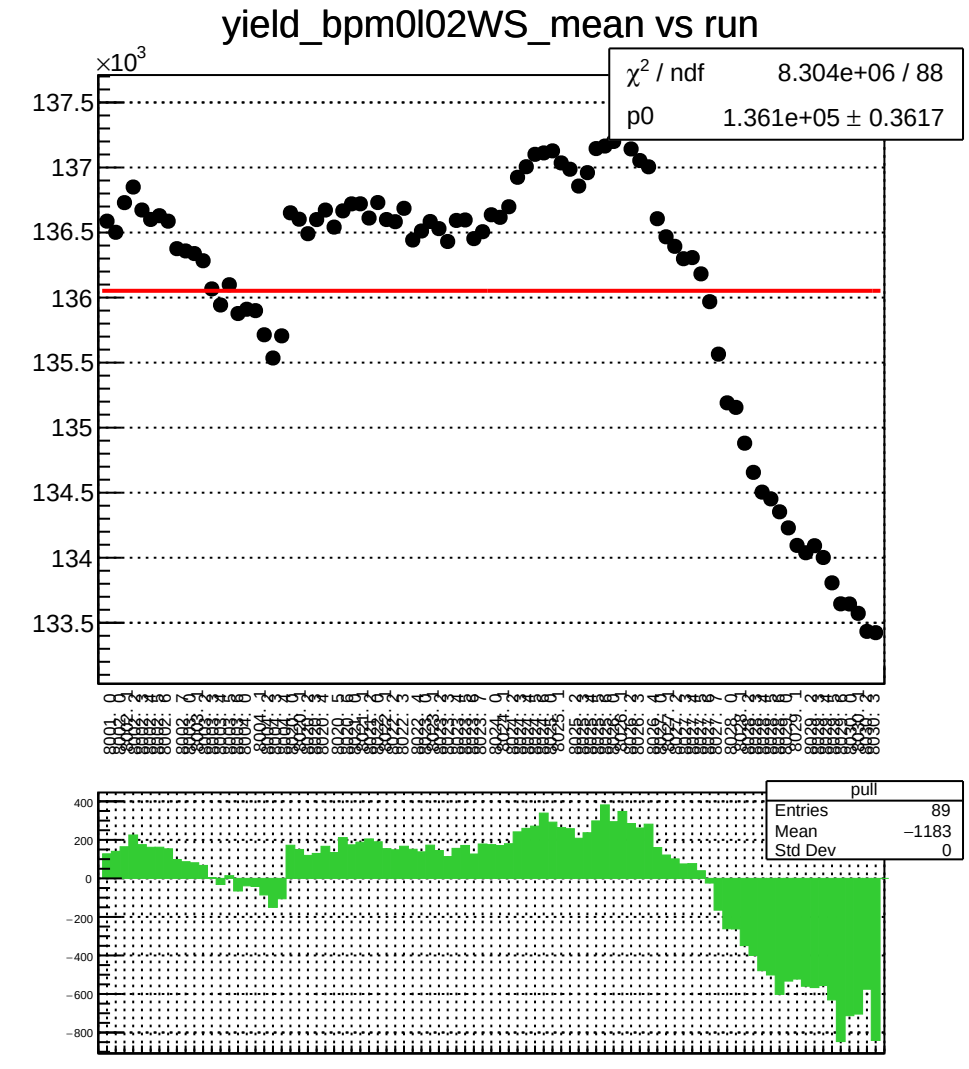

pull1D
Entries 89
Mean −0.2519
Std Dev 4.308
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

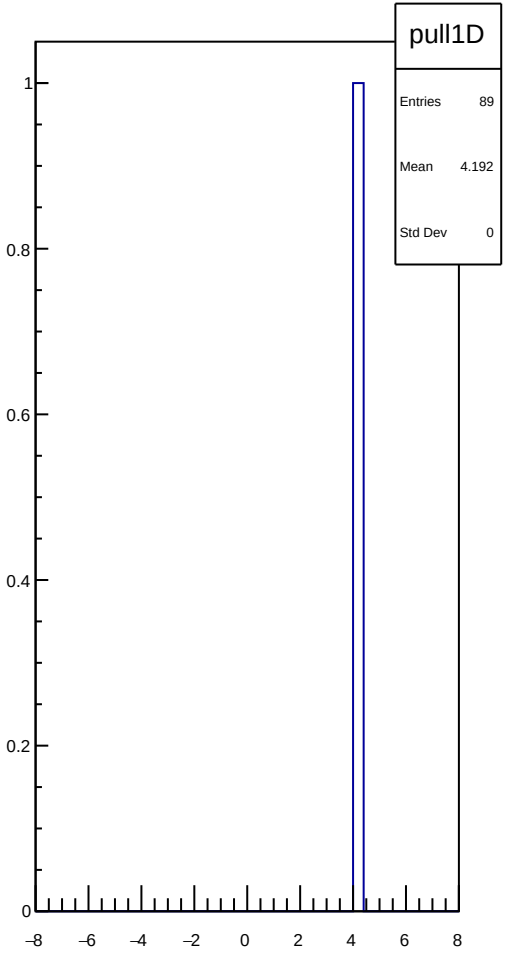

yield_bpm0i01aWS_rms vs run
χ² / ndf 4888 / 88
p0 300.4 ± 0.2284
380
360
340
320
300
280
260

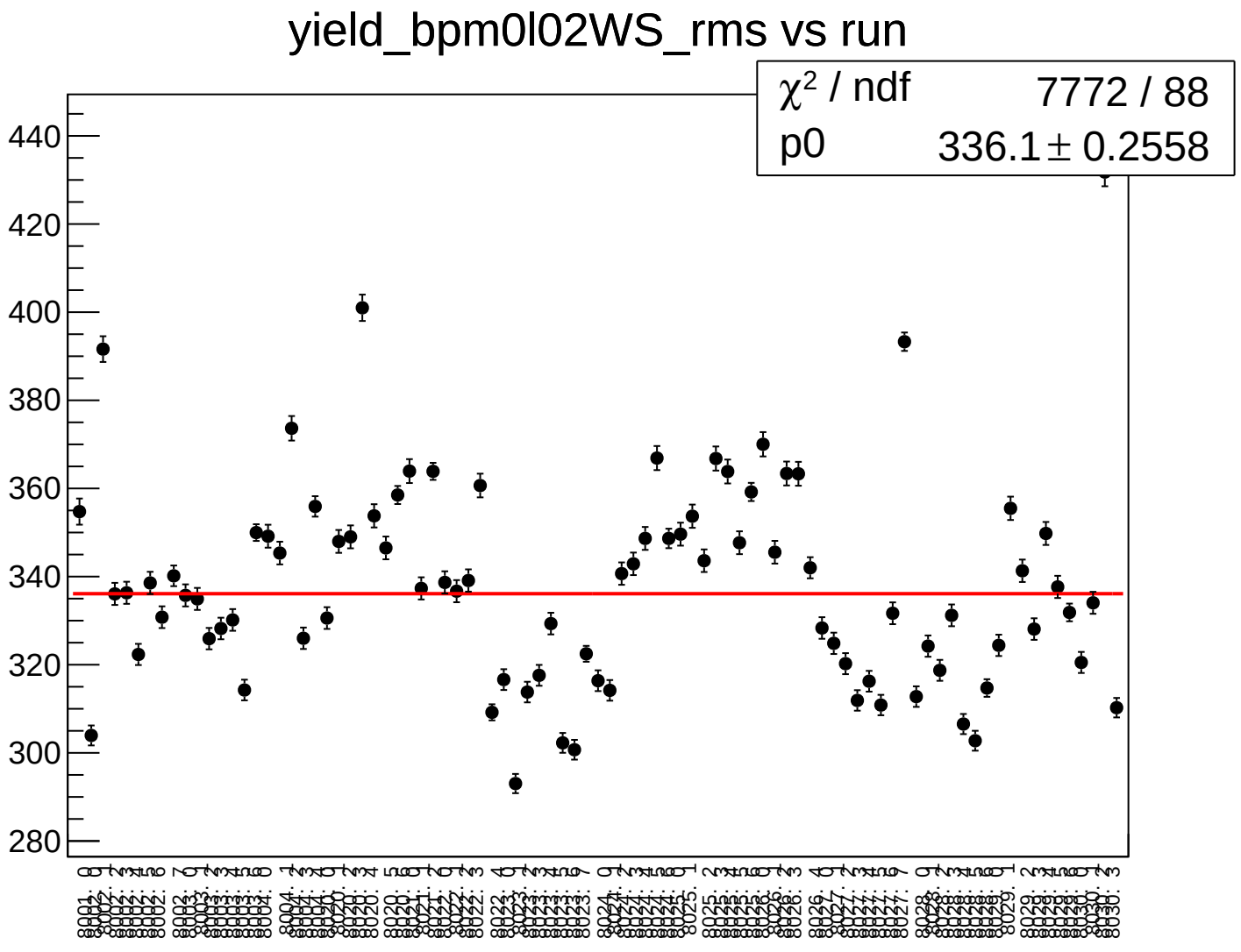

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 2.717e+05 / 88
p0 1.169e+05 ± 0.2667
117.1
117
116.9
116.8
116.7
116.6
116.5
pull
Entries 89
Mean 19.83
Std Dev 0
100
50
0
−50
−100

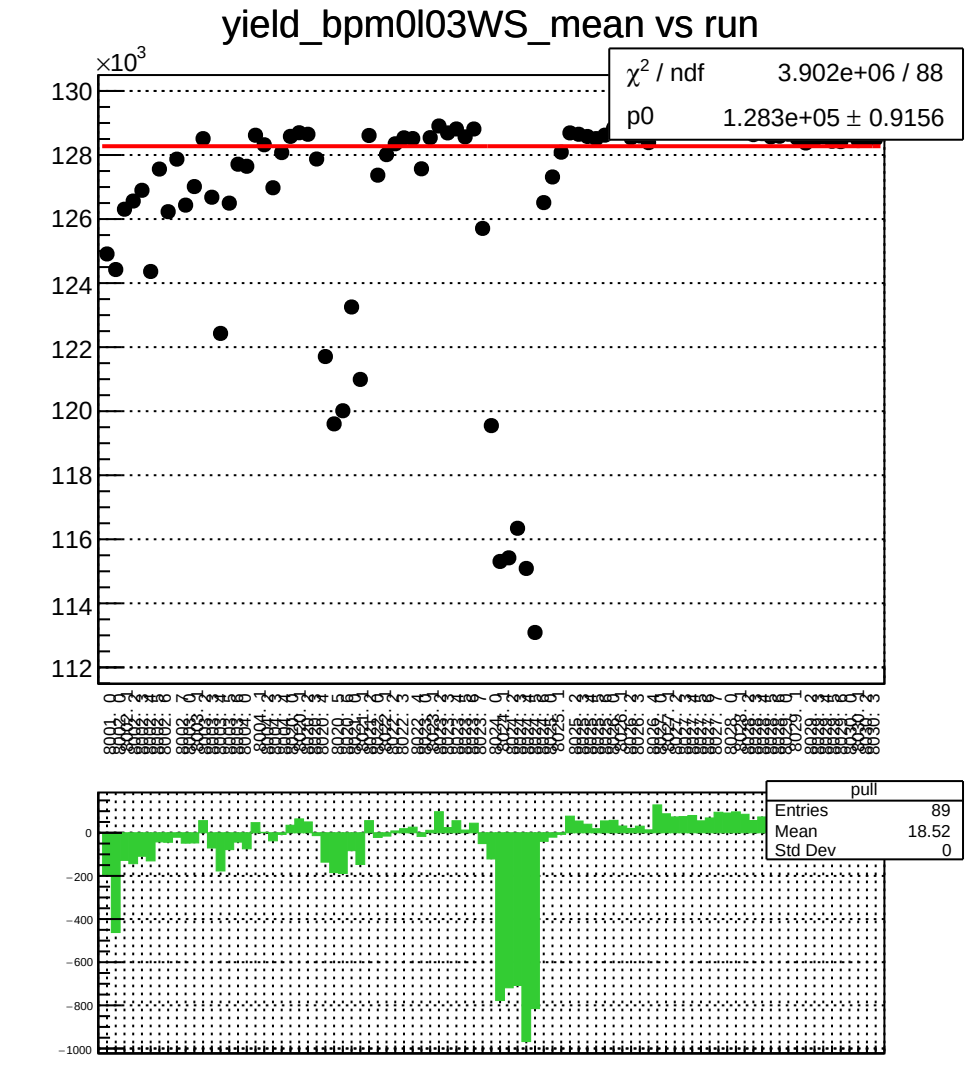

pull1D
Entries 89
Mean −2.641
Std Dev 4.179
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

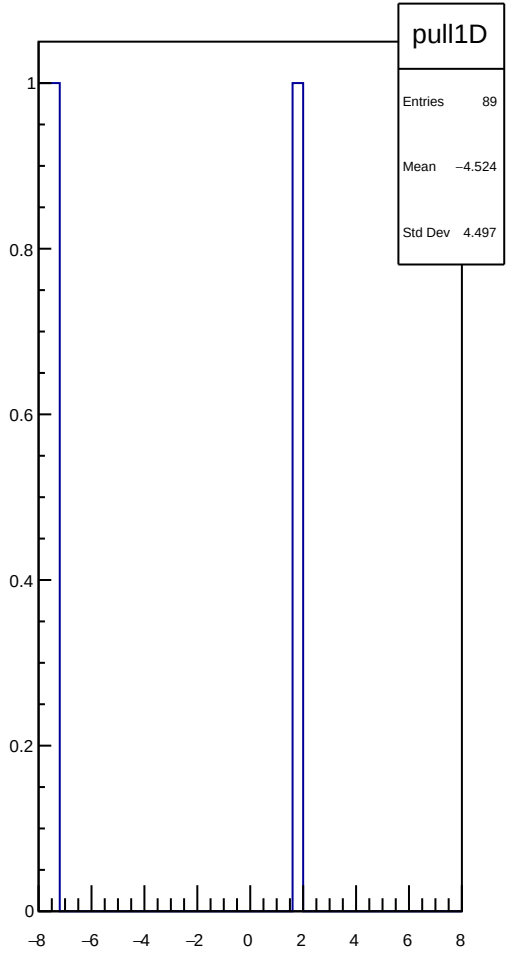

yield_bpm0l01WS_rms vs run
χ² / ndf 1.27e+04 / 88
p0 247.5 ± 0.1886
380
360
340
320
300
280
260
240
220
200

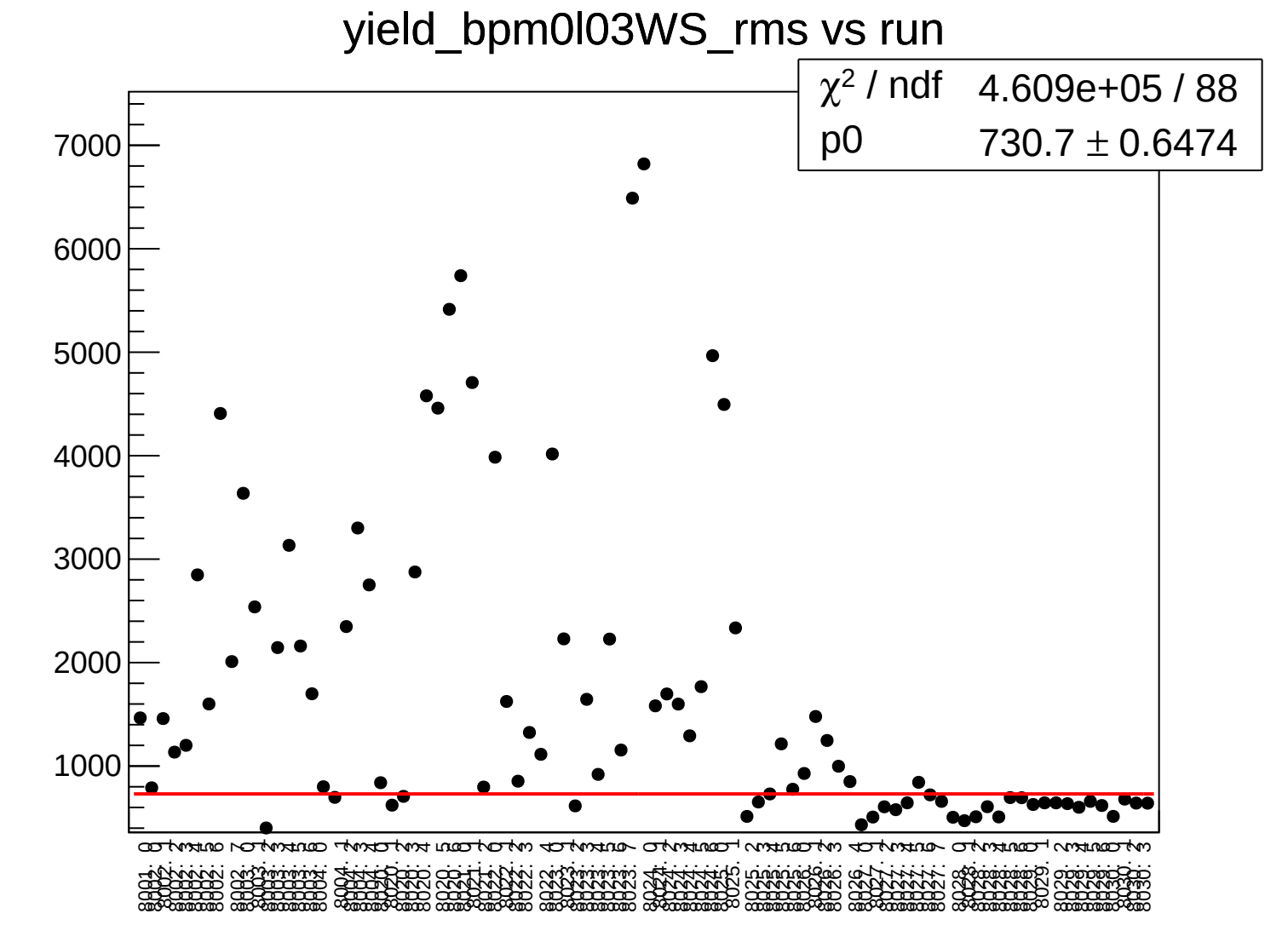

yield_bpm0l02WS_mean vs run
×10^3
χ² / ndf 8.304e+06 / 88
p0 1.361e+05 ± 0.3617
137.5
137
136.5
136
135.5
135
134.5
134
133.5
pull
Entries 89
Mean −1183
Std Dev 0
400
200
0
−200
−400
−600
−800

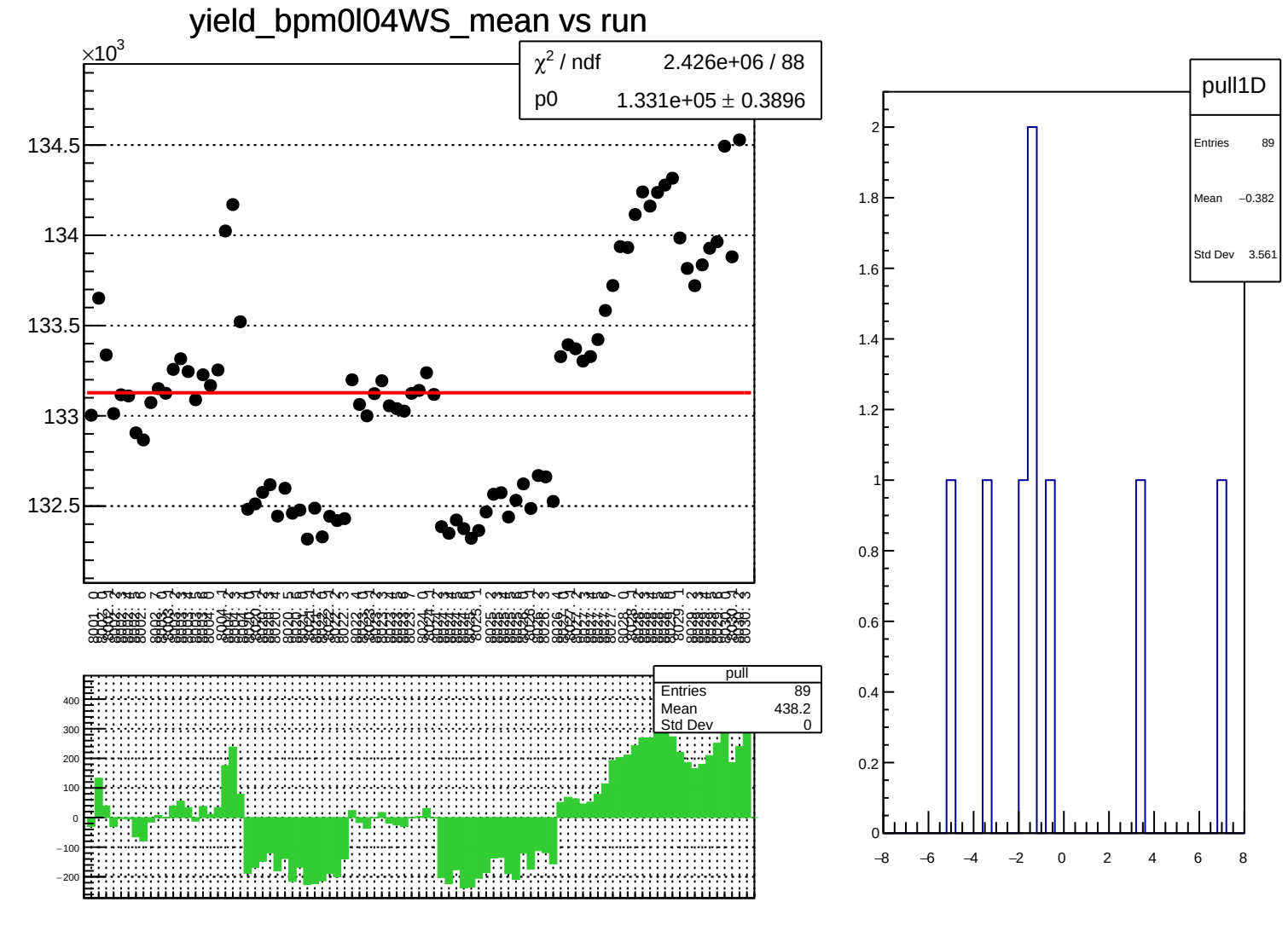

pull1D
Entries 89
Mean 4.192
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

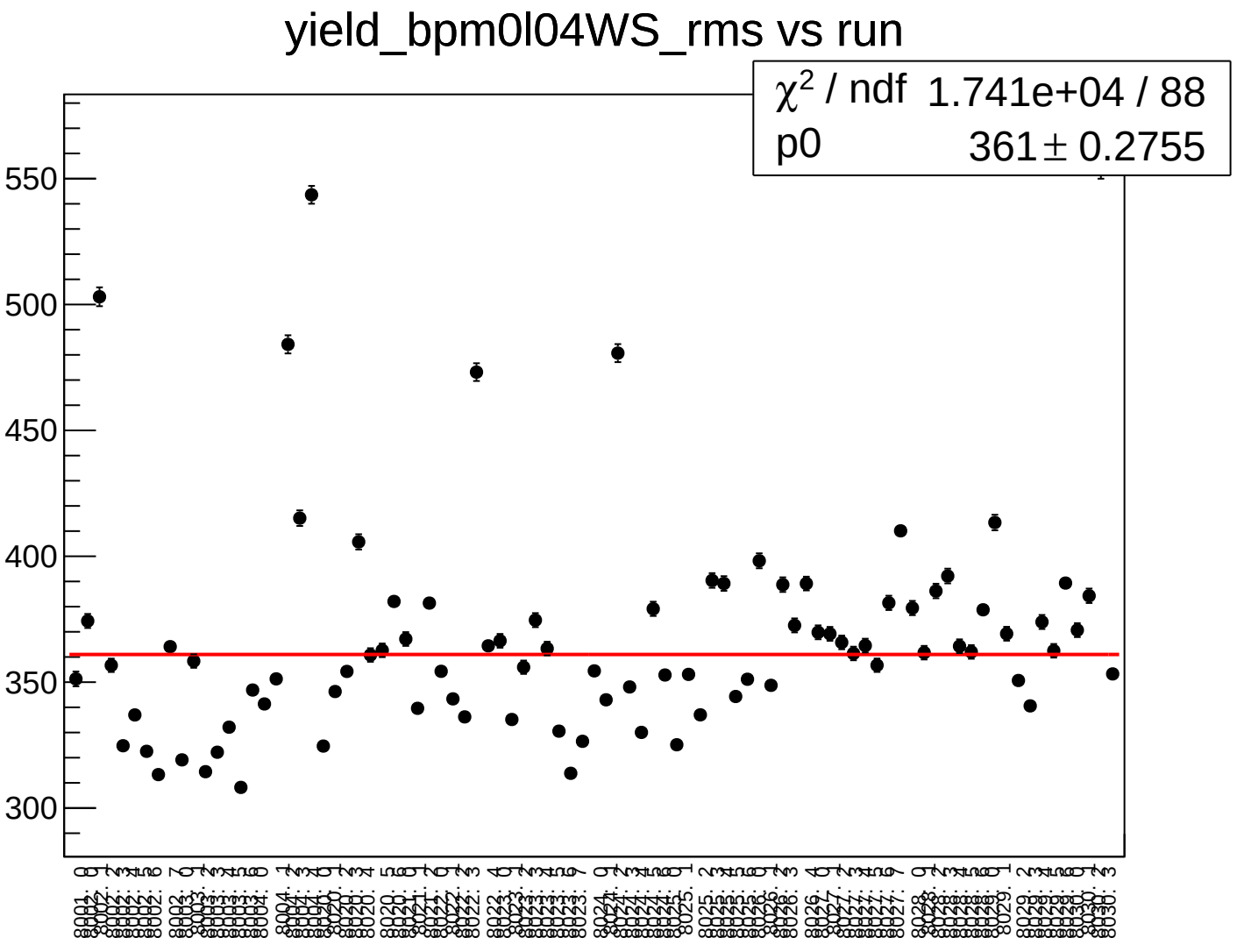

yield_bpm0l02WS_rms vs run
χ² / ndf 7772 / 88
p0 336.1 ± 0.2558
440
420
400
380
360
340
320
300
280

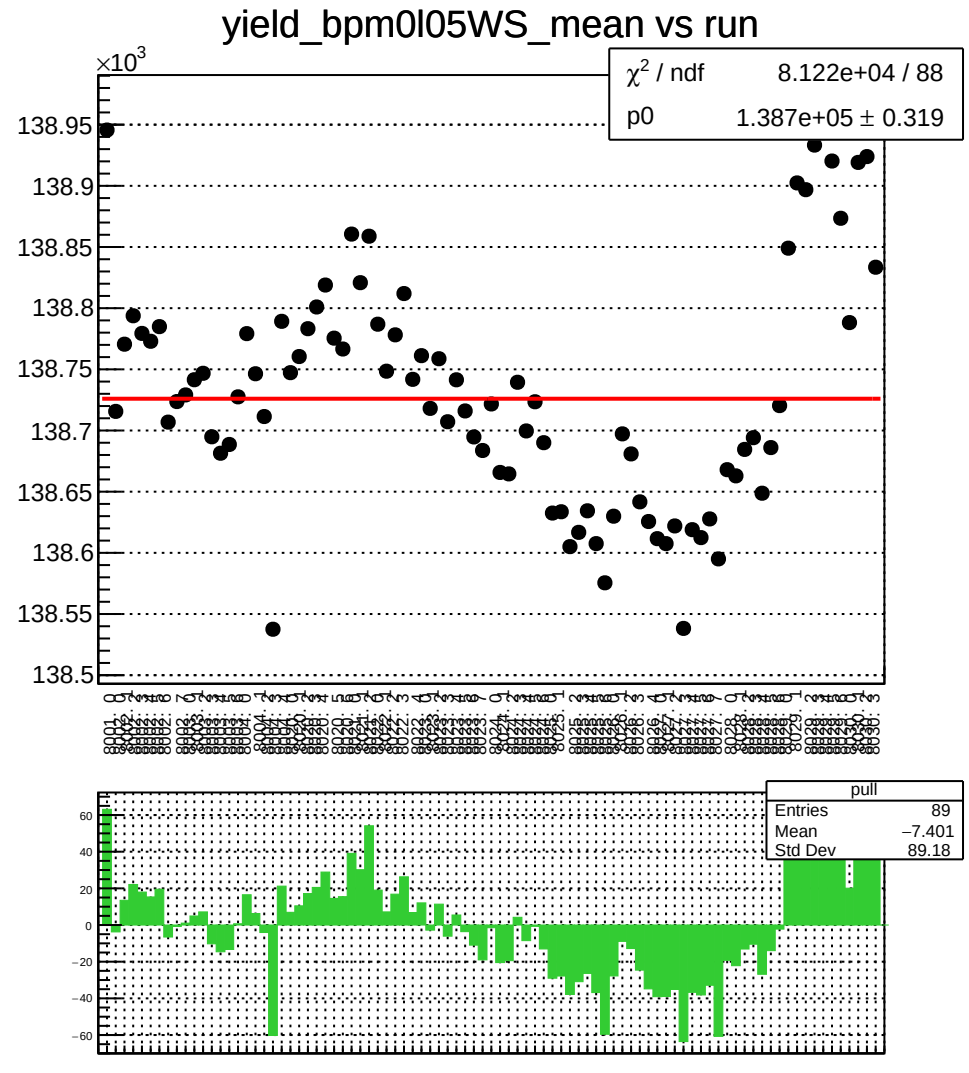

yield_bpm0l03WS_mean vs run
×10^3
χ² / ndf 3.902e+06 / 88
p0 1.283e+05 ± 0.9156
130
128
126
124
122
120
118
116
114
112
pull
Entries 89
Mean 18.52
Std Dev 0
0
−200
−400
−600
−800
−1000

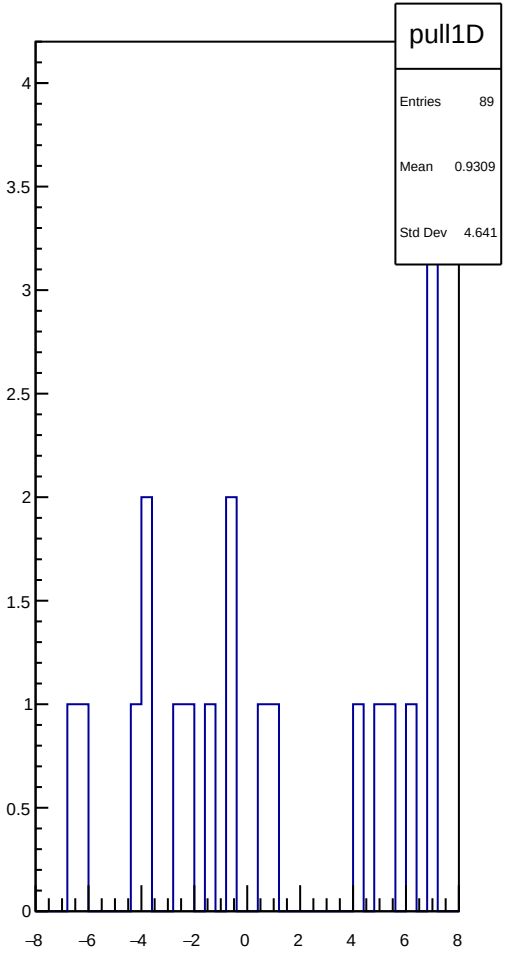

pull1D
Entries 89
Mean −4.524
Std Dev 4.497
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

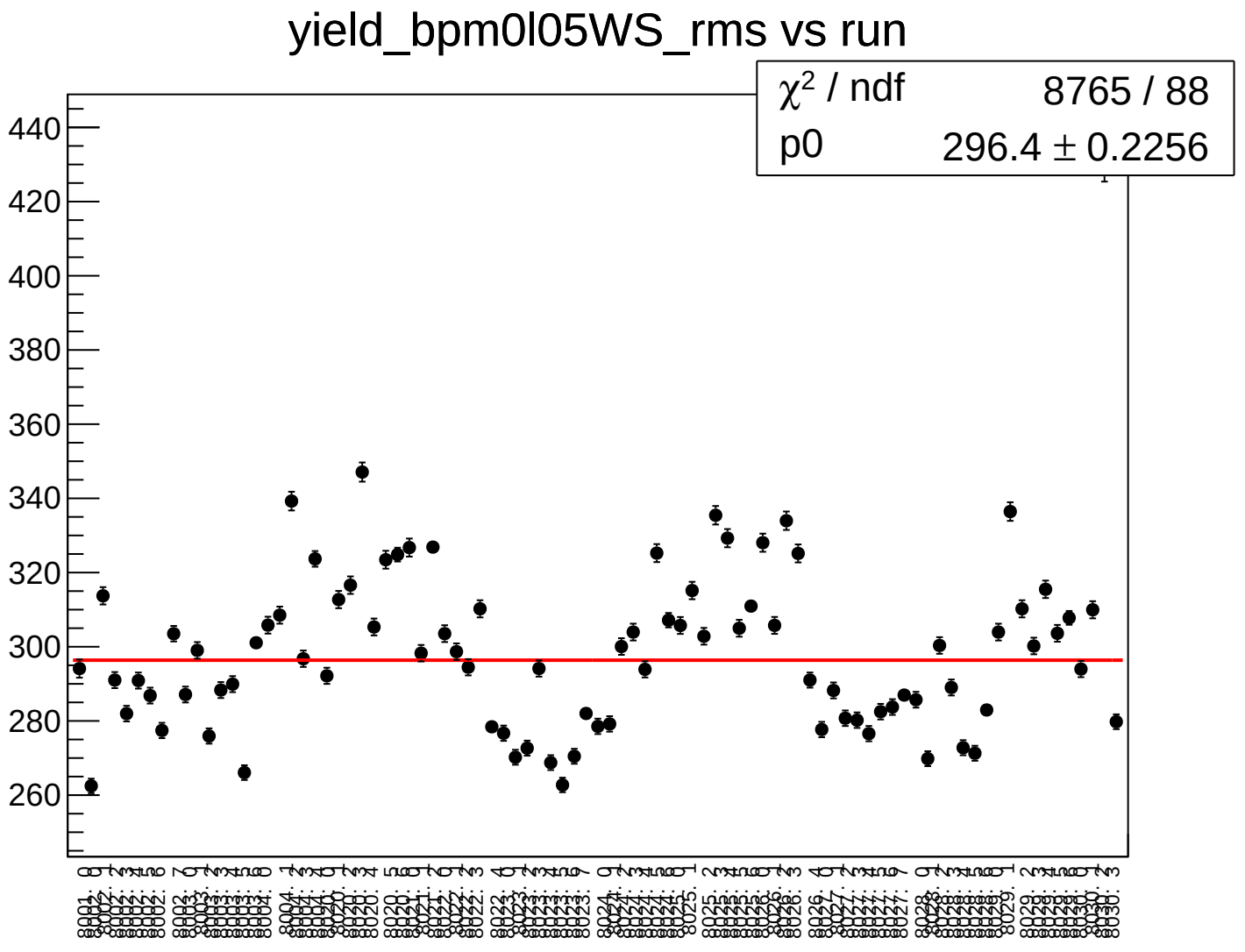

yield_bpm0l03WS_rms vs run
χ² / ndf 4.609e+05 / 88
p0 730.7 ± 0.6474
7000
6000
5000
4000
3000
2000
1000

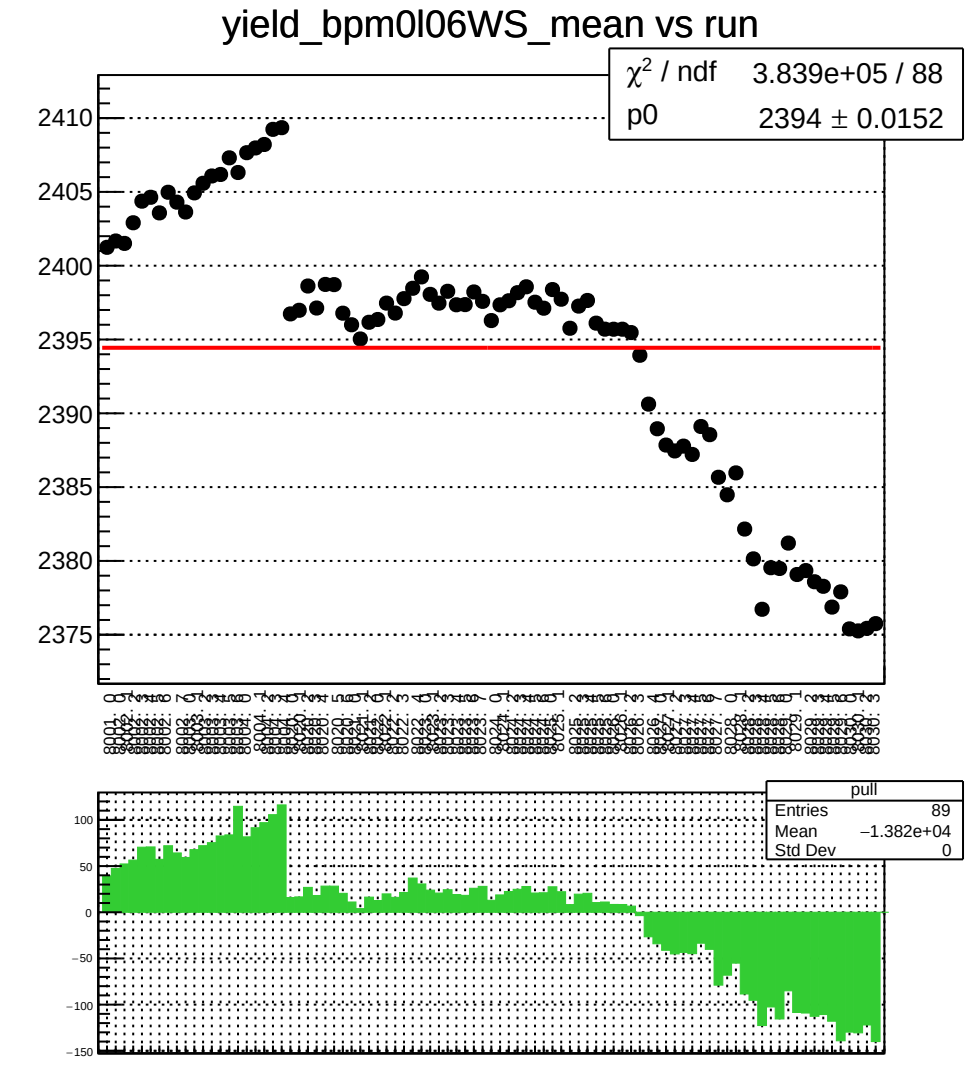

yield_bpm0l04WS_mean vs run
×10^3
χ^2 / ndf 2.426e+06 / 88
p0 1.331e+05 ± 0.3896
134.5
134
133.5
133
132.5
pull
Entries 89
Mean 438.2
Std Dev 0
400
300
200
100
0
−100
−200
pull1D
Entries 89
Mean −0.382
Std Dev 3.561
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

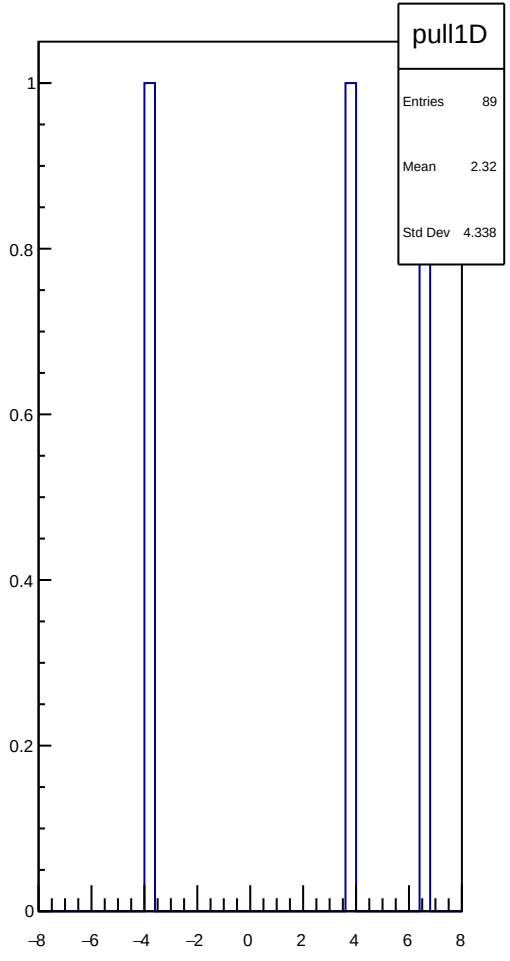

yield_bpm0l04WS_rms vs run
χ² / ndf 1.741e+04 / 88
p0 361 ± 0.2755
550
500
450
400
350
300

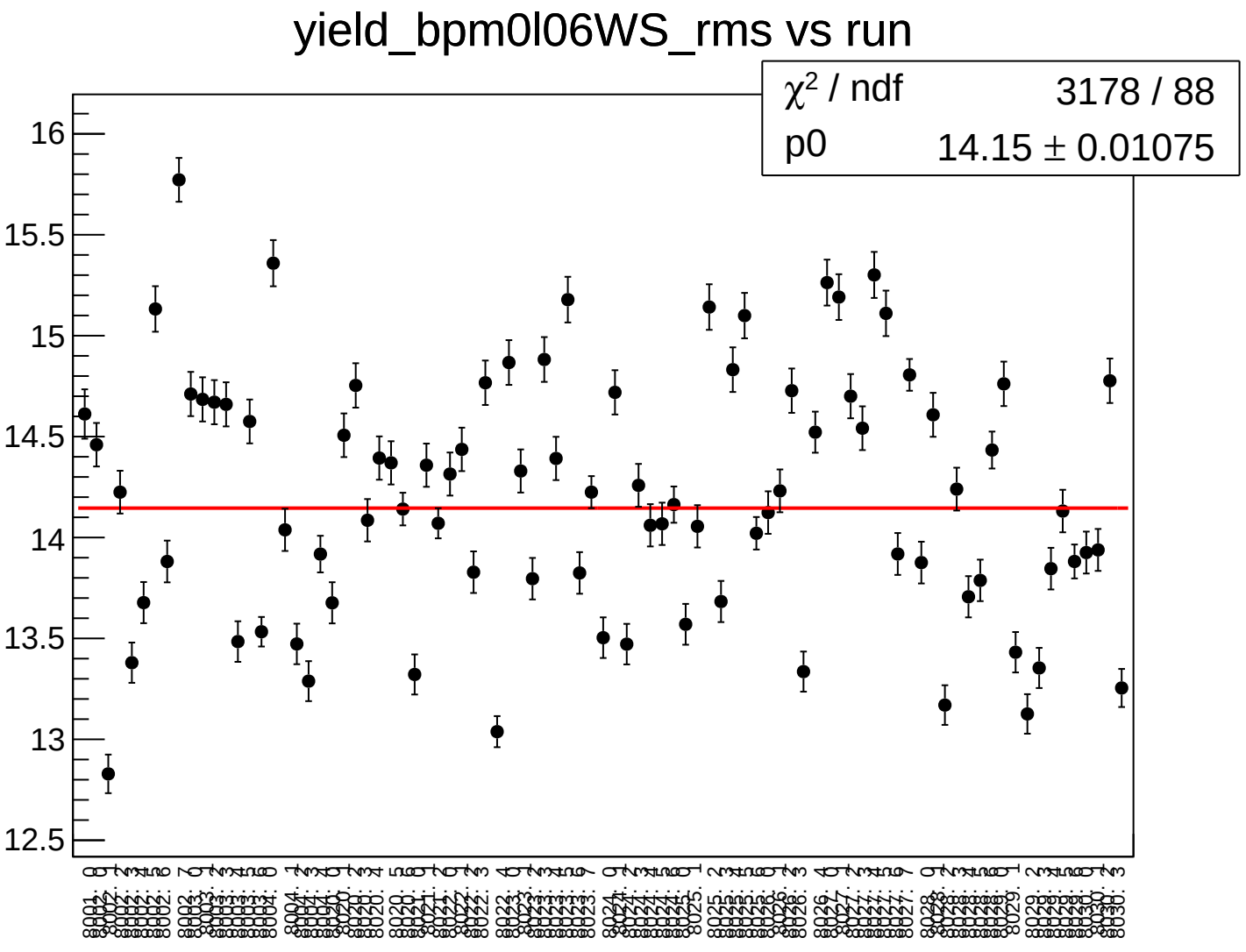

yield_bpm0l05WS_mean vs run
×10^3
χ² / ndf 8.122e+04 / 88
p0 1.387e+05 ± 0.319
138.95
138.9
138.85
138.8
138.75
138.7
138.65
138.6
138.55
138.5
pull
Entries 89
Mean −7.401
Std Dev 89.18
60
40
20
0
−20
−40
−60

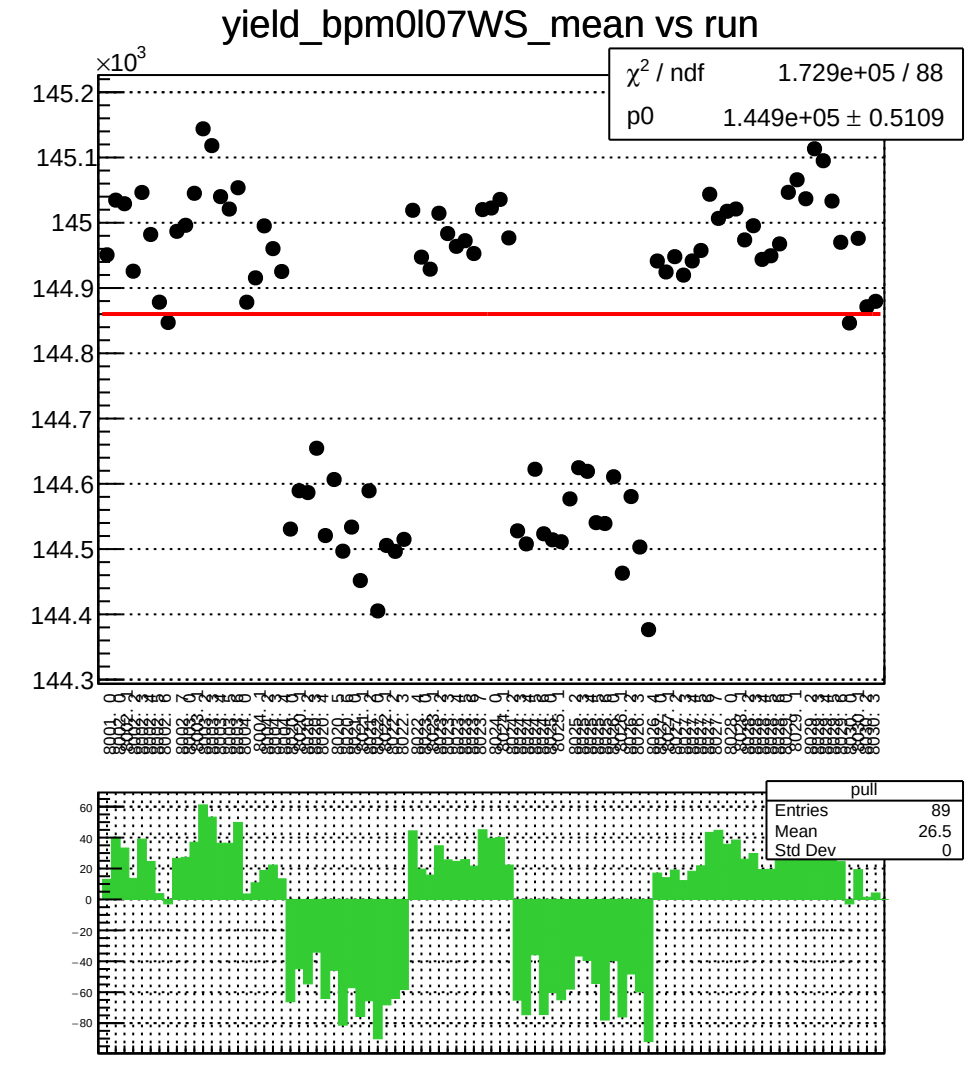

pull1D
Entries 89
Mean 0.9309
Std Dev 4.641
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

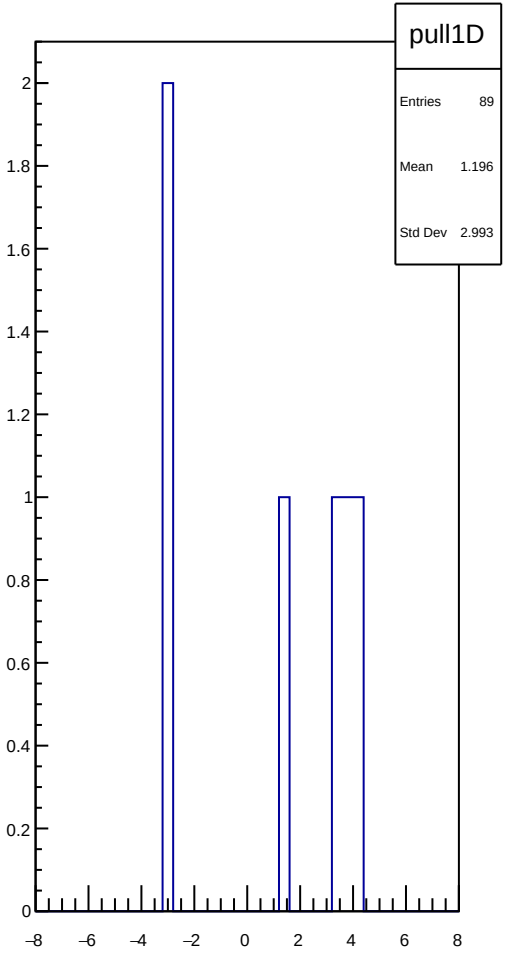

yield_bpm0l05WS_rms vs run
χ² / ndf 8765 / 88
p0 296.4 ± 0.2256
440
420
400
380
360
340
320
300
280
260

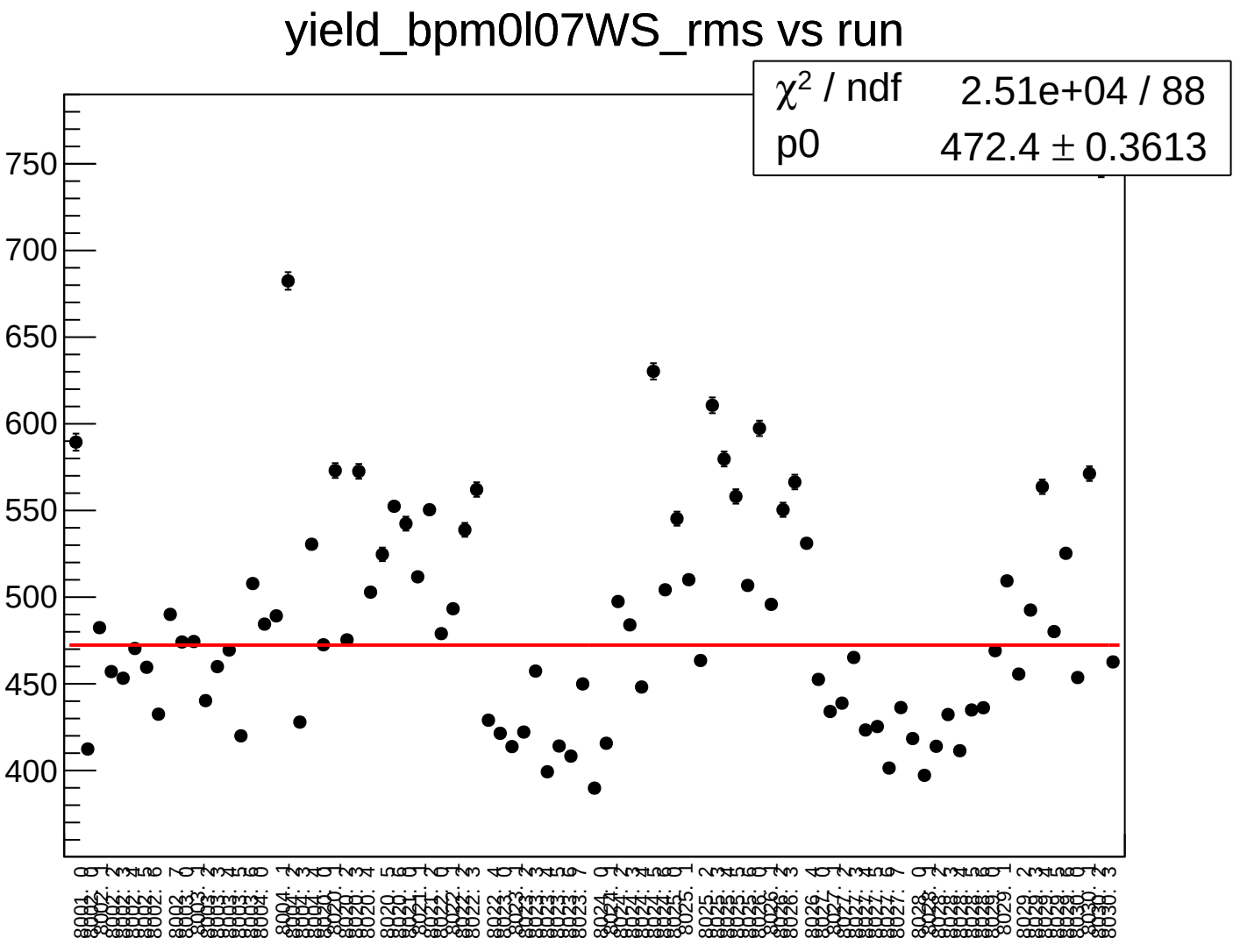

yield_bpm0l06WS_mean vs run
χ² / ndf 3.839e+05 / 88
p0 2394 ± 0.0152
2410
2405
2400
2395
2390
2385
2380
2375
pull
Entries 89
Mean −1.382e+04
Std Dev 0
100
50
0
−50
−100
−150

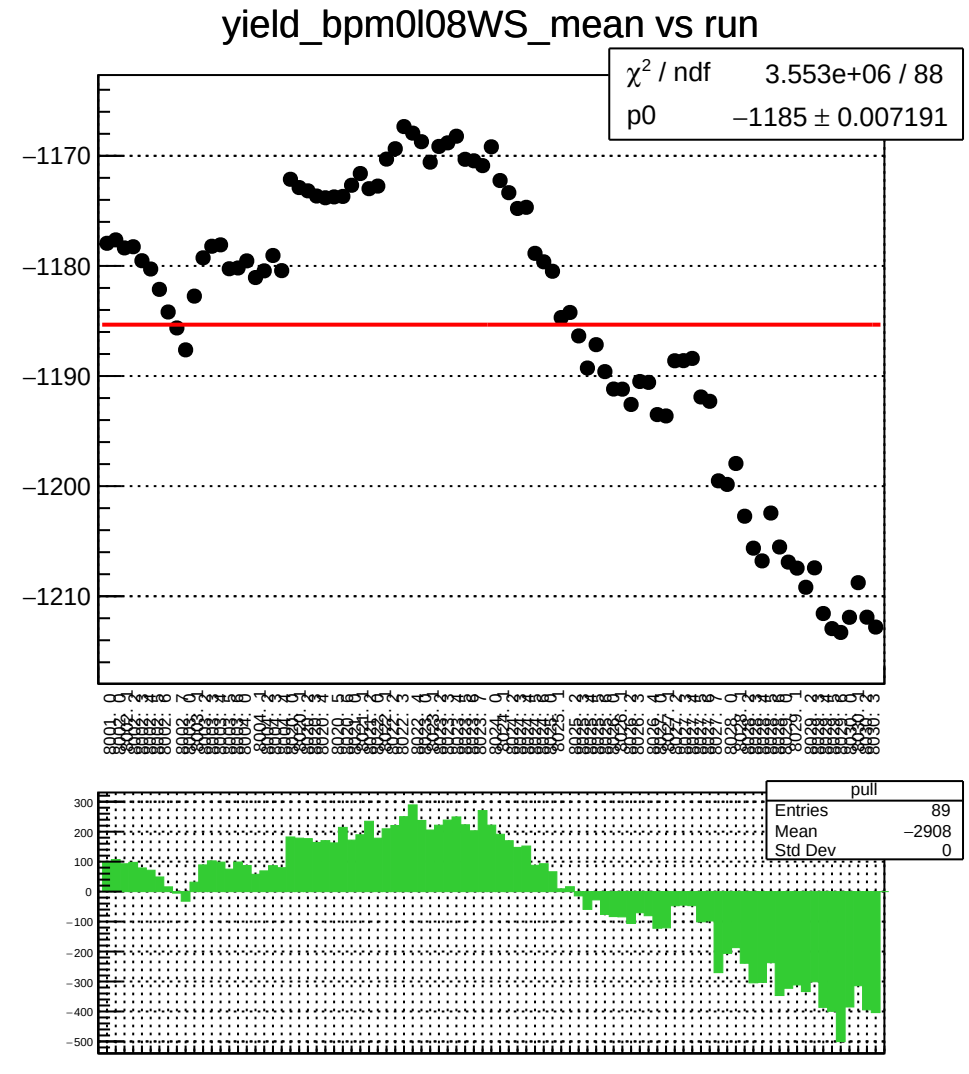

pull1D
Entries 89
Mean 2.32
Std Dev 4.338
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

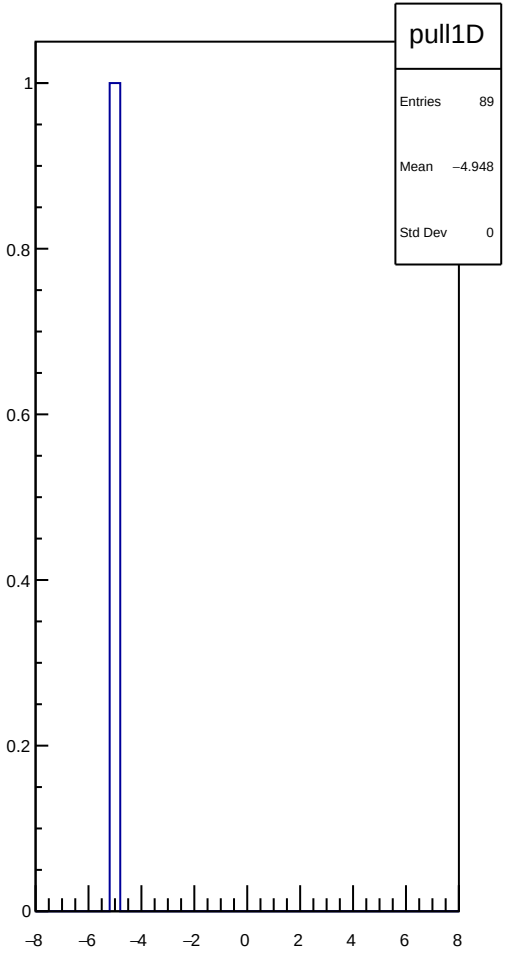

yield_bpm0l06WS_rms vs run
χ² / ndf 3178 / 88
p0 14.15 ± 0.01075
16
15.5
15
14.5
14
13.5
13
12.5

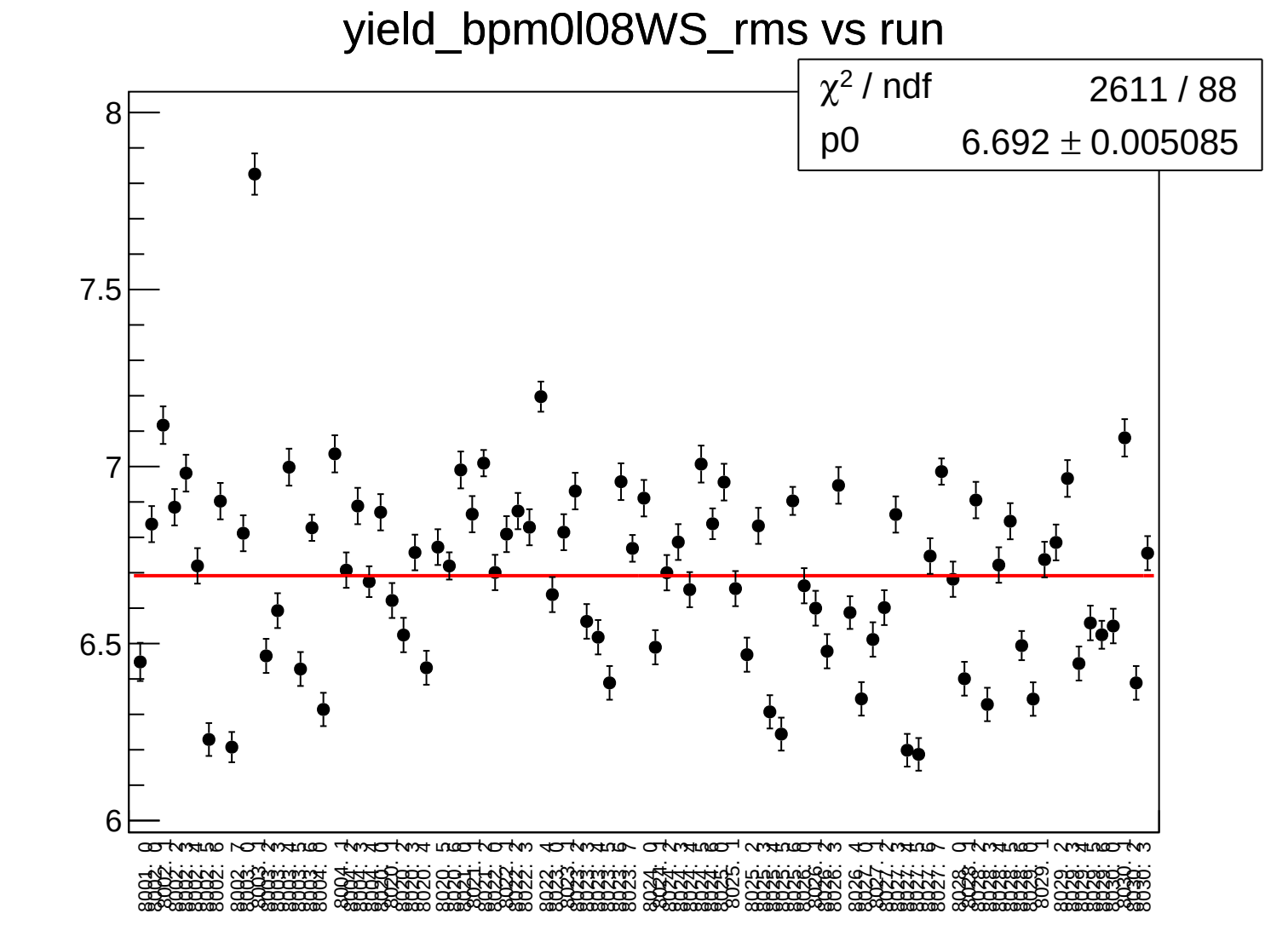

yield_bpm0l07WS_mean vs run
×10^3
χ^2 / ndf 1.729e+05 / 88
p0 1.449e+05 ± 0.5109
145.2
145.1
145
144.9
144.8
144.7
144.6
144.5
144.4
144.3
pull
Entries 89
Mean 26.5
Std Dev 0
60
40
20
0
−20
−40
−60
−80

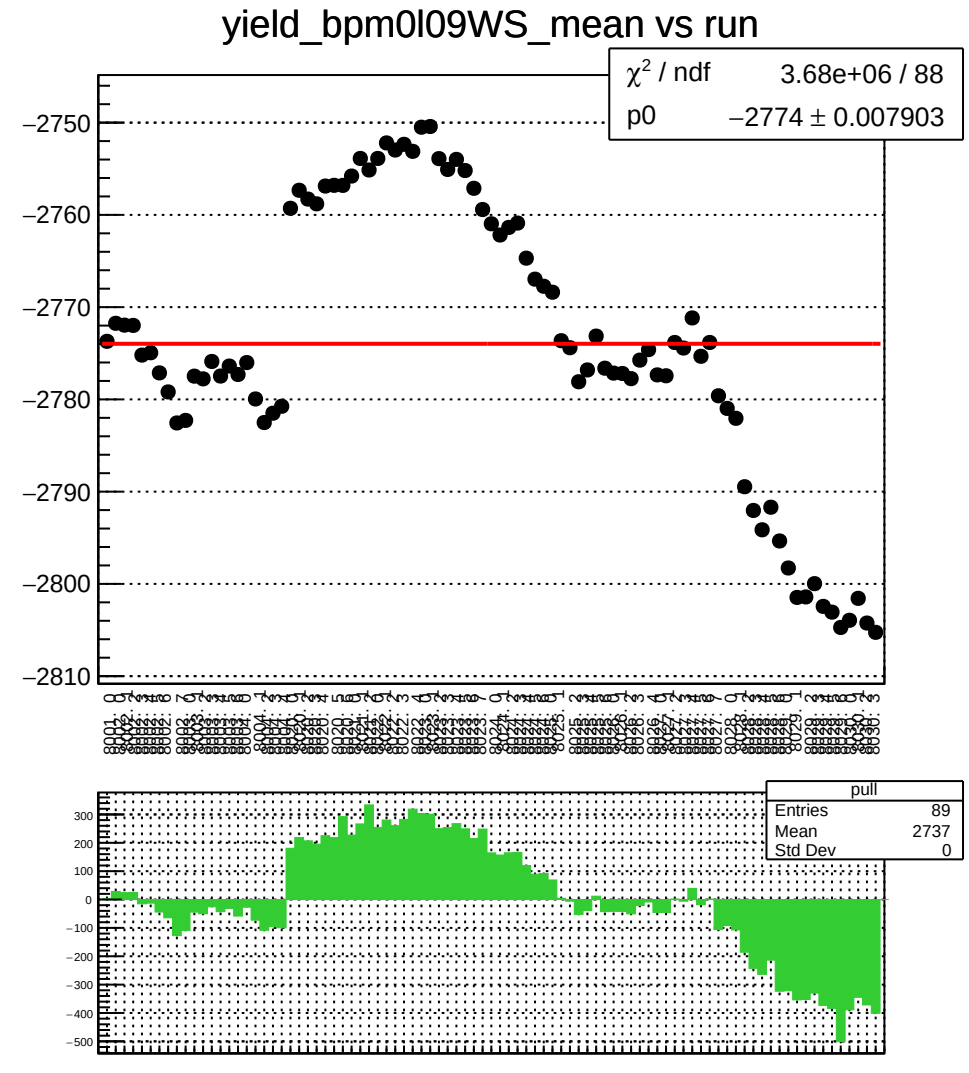

pull1D
Entries 89
Mean 1.196
Std Dev 2.993
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

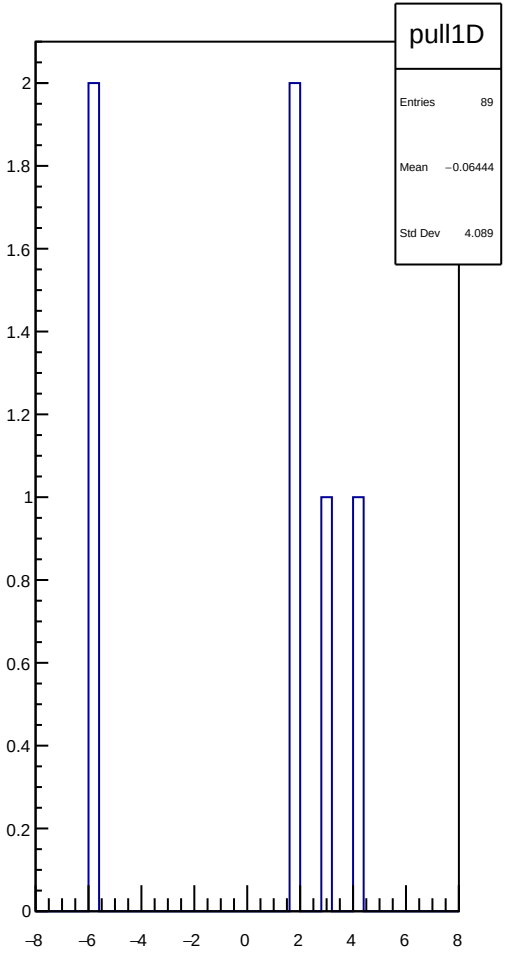

yield_bpm0l07WS_rms vs run
χ² / ndf 2.51e+04 / 88
p0 472.4 ± 0.3613
750
700
650
600
550
500
450
400

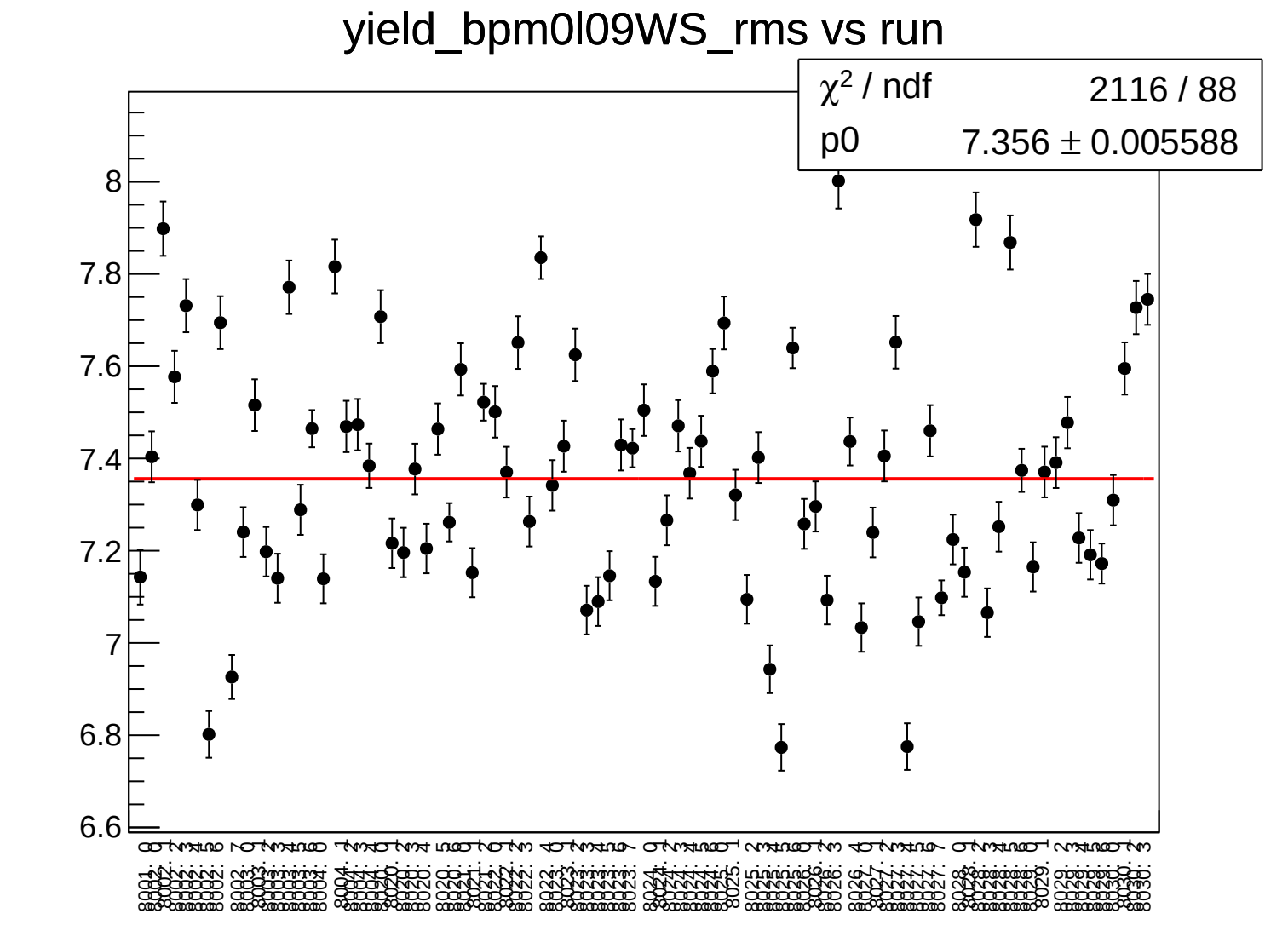

yield_bpm0l08WS_mean vs run
χ² / ndf 3.553e+06 / 88
p0 −1185 ± 0.007191
−1170
−1180
−1190
−1200
−1210
pull
Entries 89
Mean −2908
Std Dev 0
300
200
100
0
−100
−200
−300
−400
−500

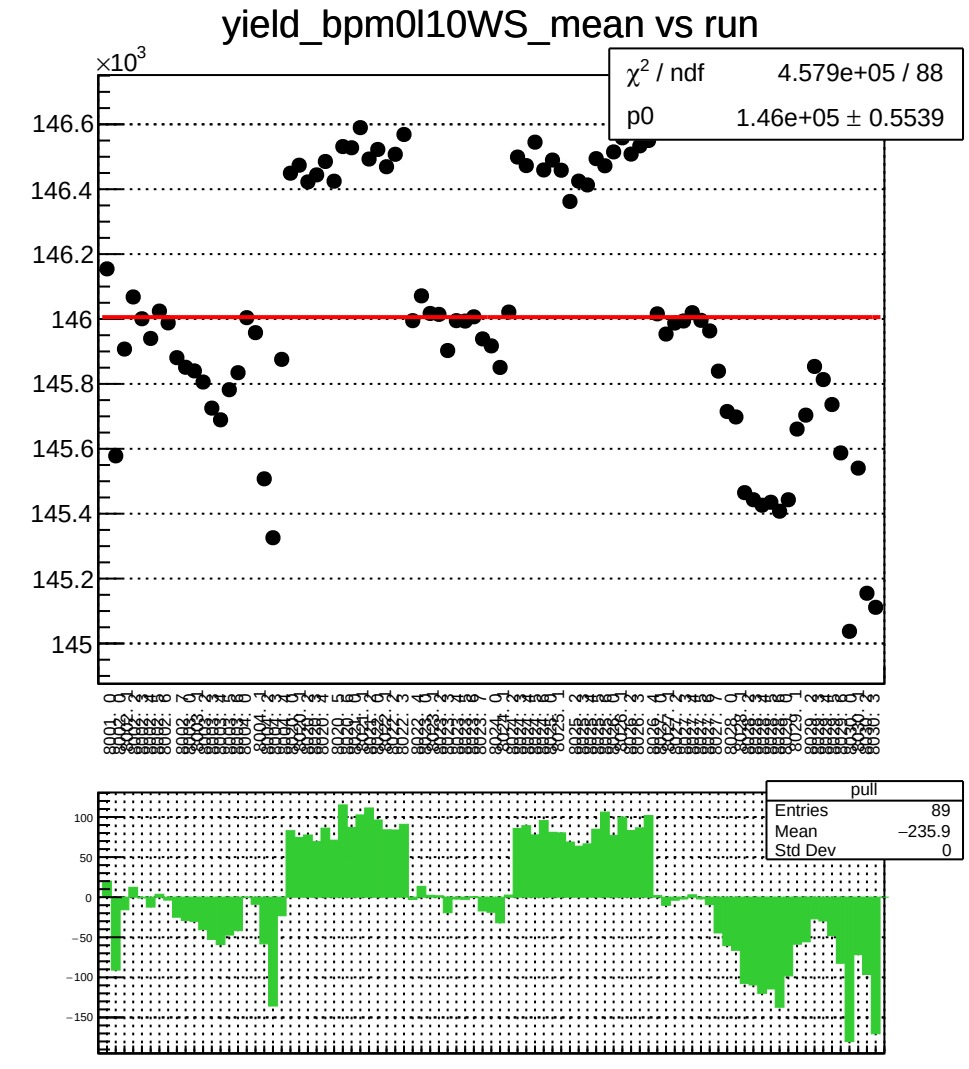

pull1D
Entries 89
Mean −4.948
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

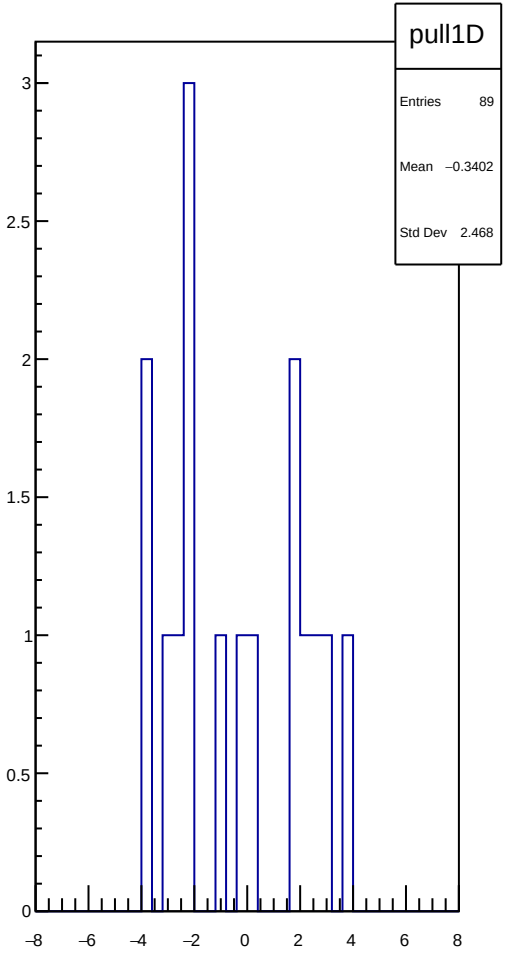

yield_bpm0l08WS_rms vs run
χ² / ndf 2611 / 88
p0 6.692 ± 0.005085
8
7.5
7
6.5
6

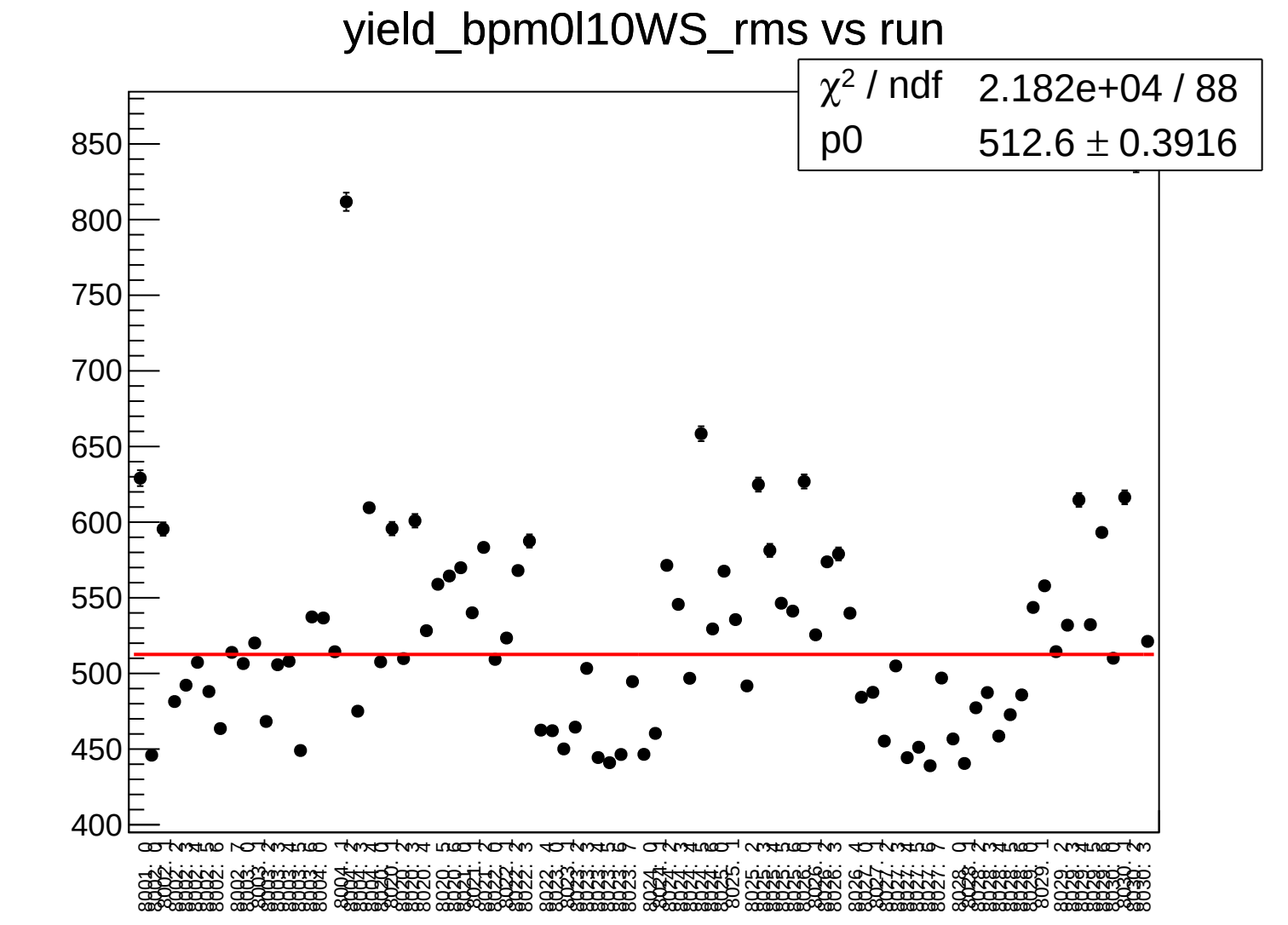

yield_bpm0l09WS_mean vs run
χ² / ndf 3.68e+06 / 88
p0 −2774 ± 0.007903
−2750
−2760
−2770
−2780
−2790
−2800
−2810
pull
Entries 89
Mean 2737
Std Dev 0
300
200
100
0
−100
−200
−300
−400
−500

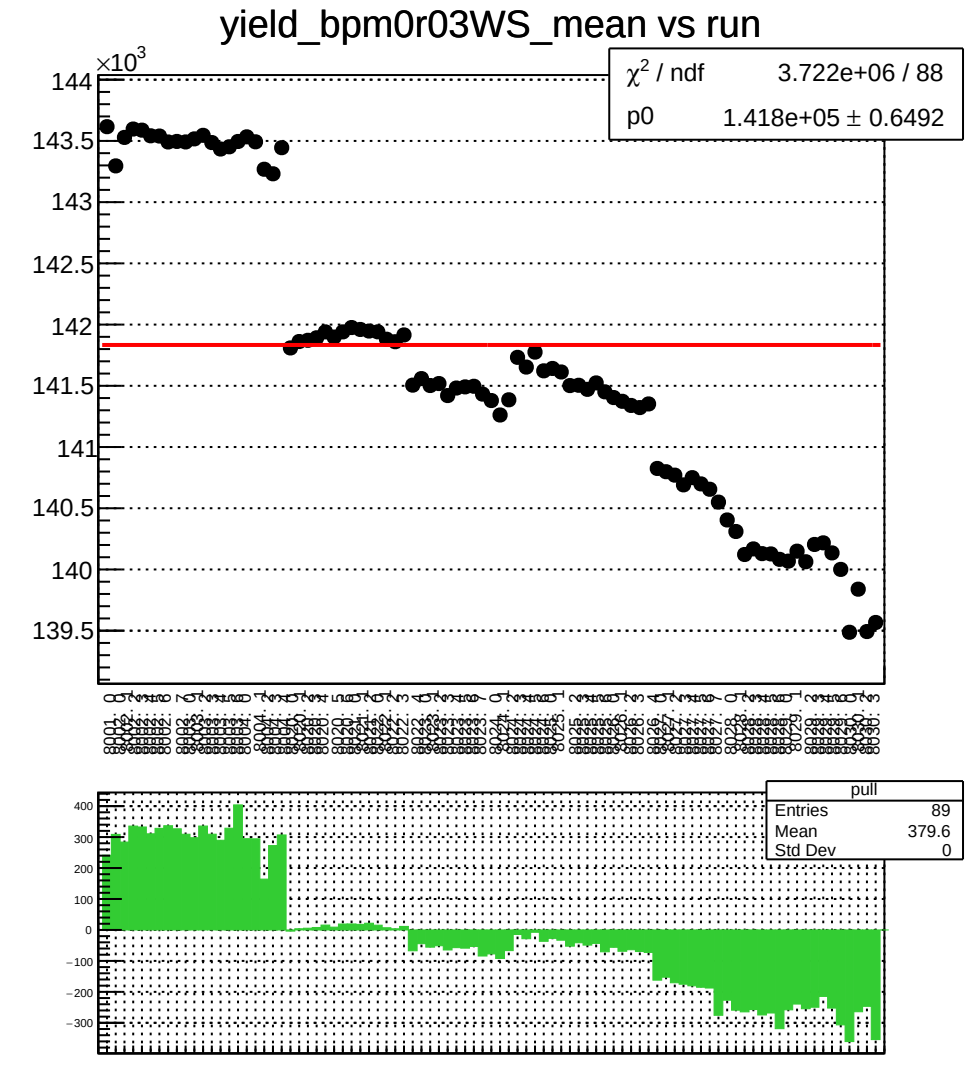

pull1D
Entries 89
Mean −0.06444
Std Dev 4.089
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

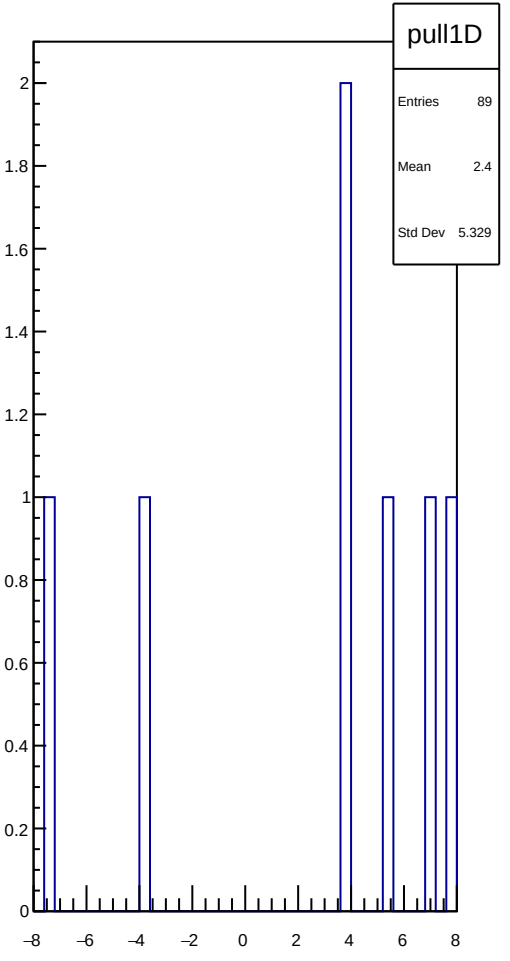

yield_bpm0l09WS_rms vs run
χ² / ndf 2116 / 88
p0 7.356 ± 0.005588
8
7.8
7.6
7.4
7.2
7
6.8
6.6

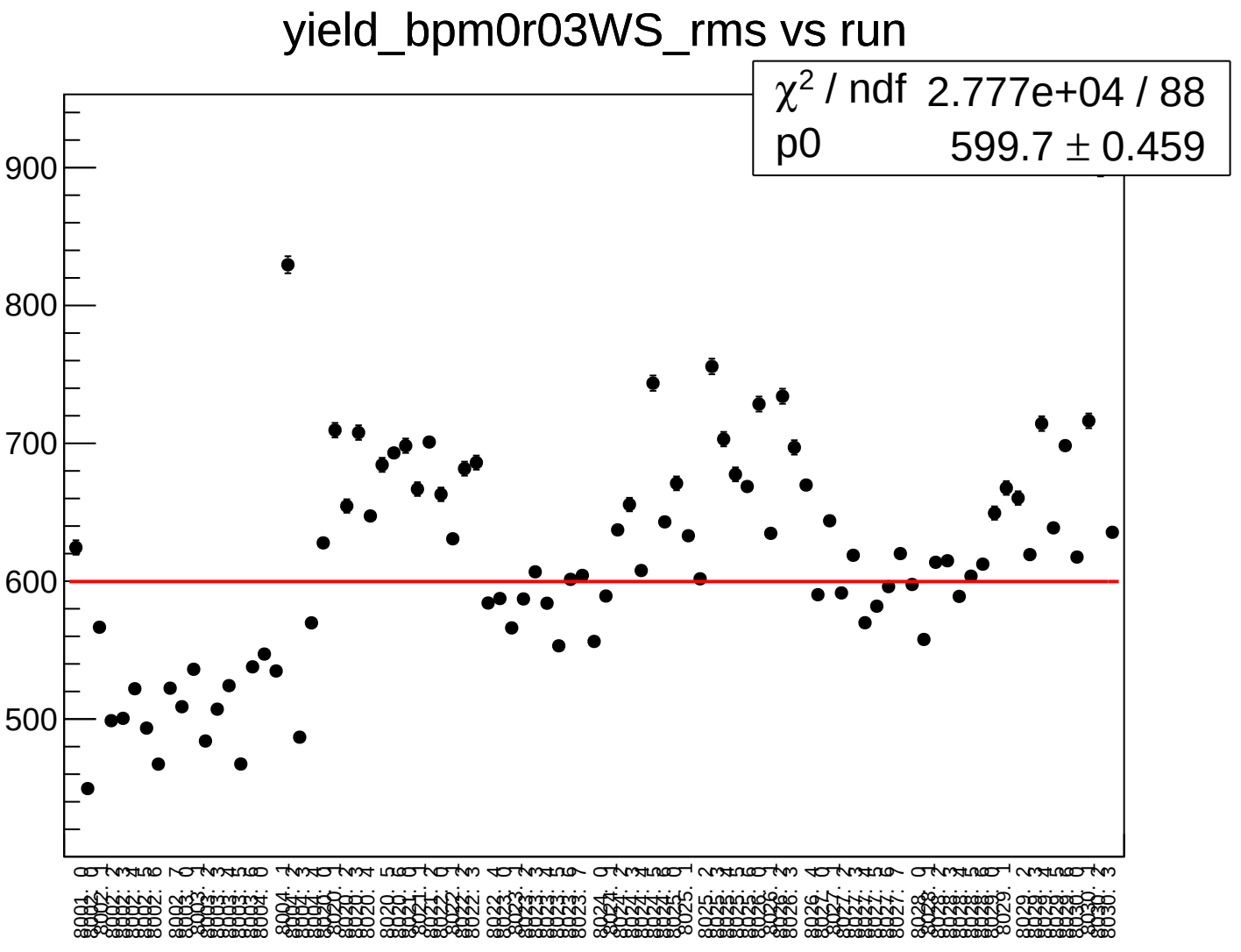

yield_bpm0l10WS_mean vs run
×10^3
χ² / ndf 4.579e+05 / 88
p0 1.46e+05 ± 0.5539
146.6
146.4
146.2
146
145.8
145.6
145.4
145.2
145
pull
Entries 89
Mean −235.9
Std Dev 0
100
50
0
−50
−100
−150

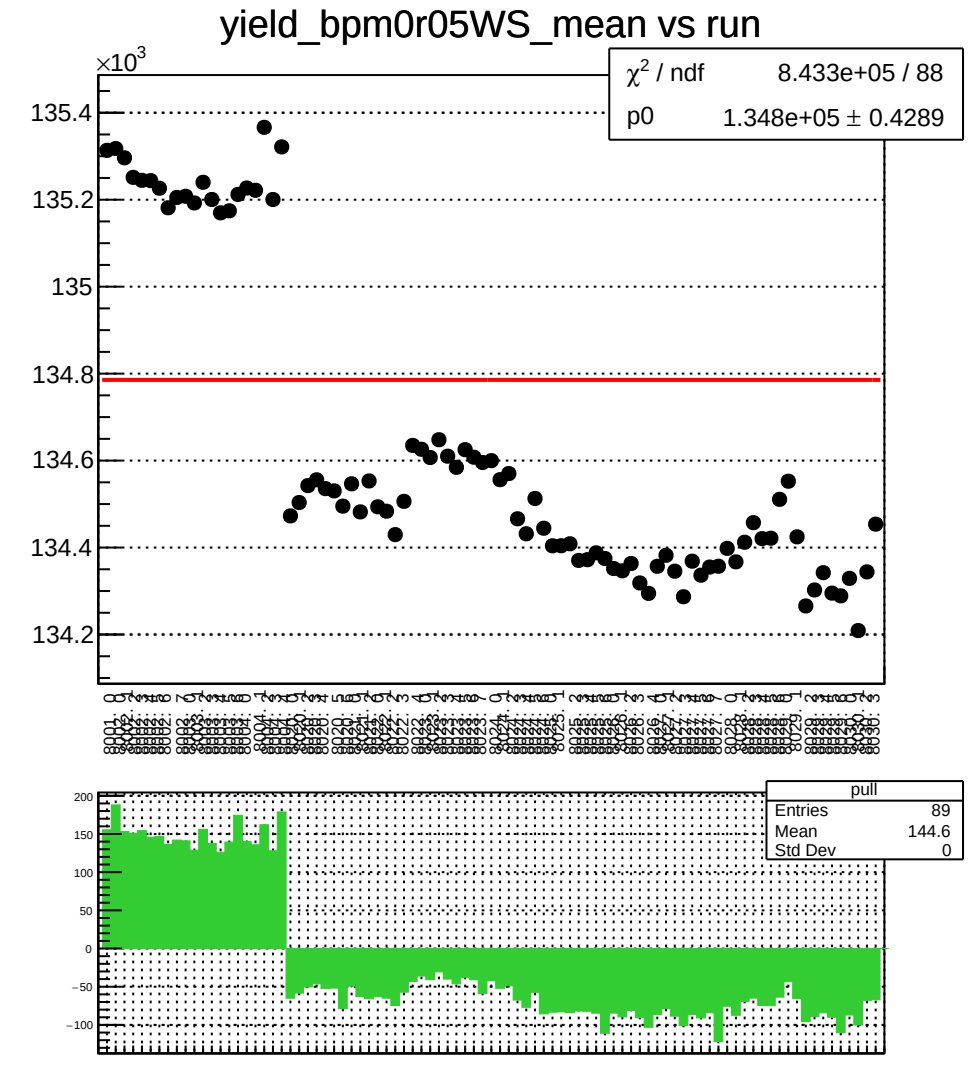

pull1D
Entries 89
Mean −0.3402
Std Dev 2.468
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

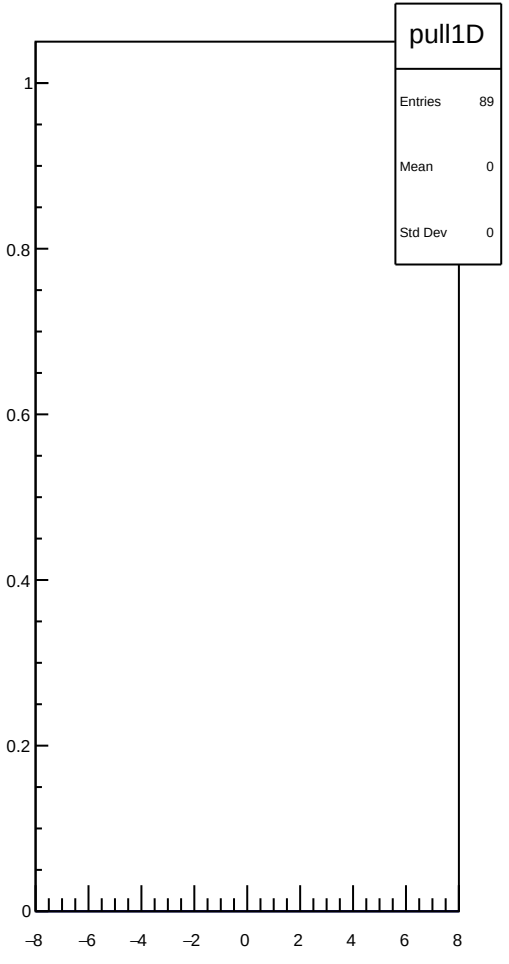

yield_bpm0l10WS_rms vs run
χ² / ndf 2.182e+04 / 88
p0 512.6 ± 0.3916
850
800
750
700
650
600
550
500
450
400

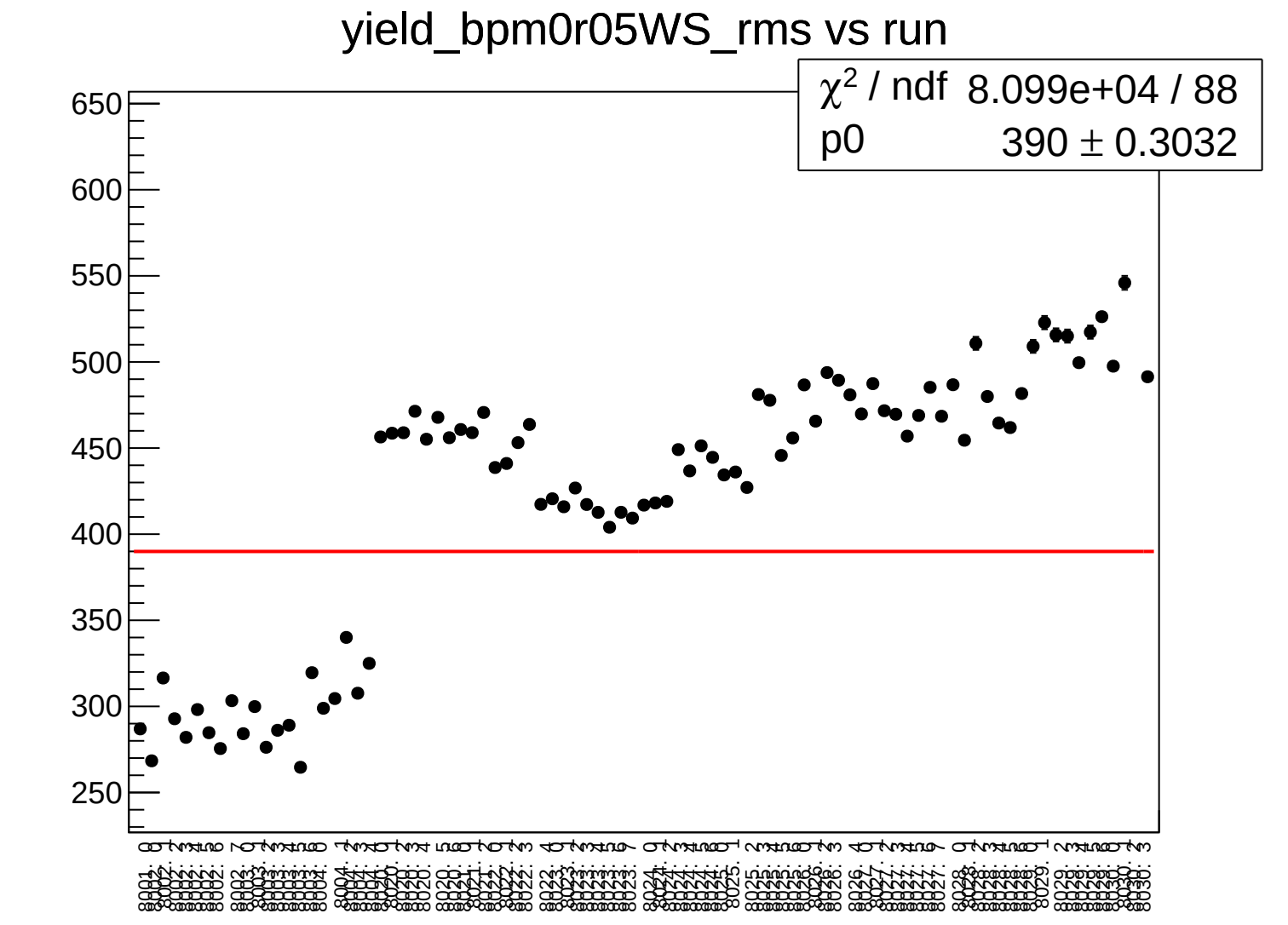

yield_bpm0r03WS_mean vs run
×10^3
χ² / ndf 3.722e+06 / 88
p0 1.418e+05 ± 0.6492
144
143.5
143
142.5
142
141.5
141
140.5
140
139.5
pull
Entries 89
Mean 379.6
Std Dev 0
400
300
200
100
0
−100
−200
−300

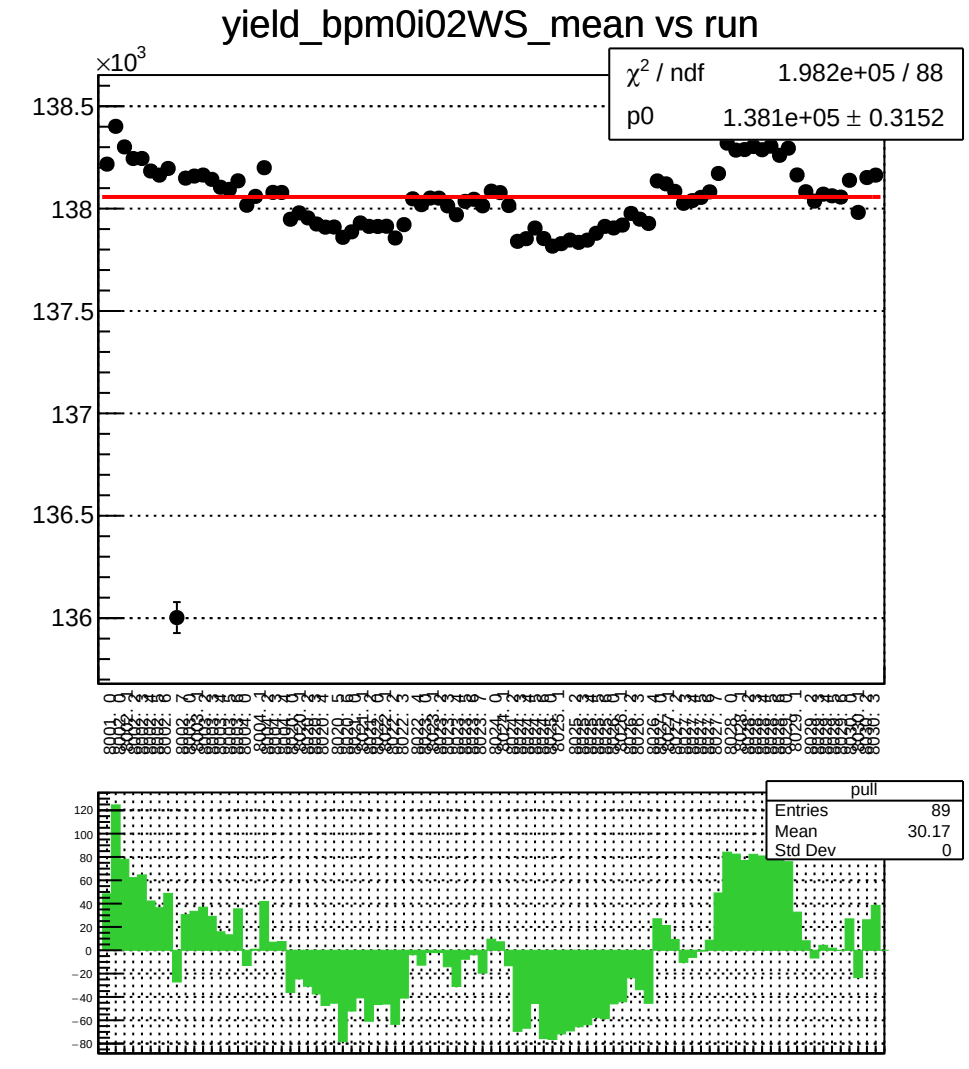

pull1D
Entries 89
Mean 2.4
Std Dev 5.329
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

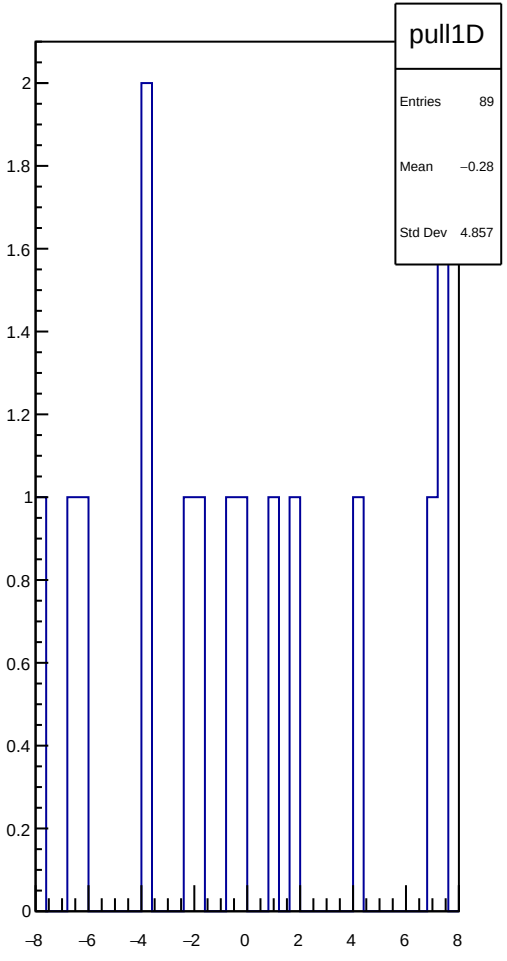

yield_bpm0r03WS_rms vs run
χ² / ndf 2.777e+04 / 88
p0 599.7 ± 0.459
900
800
700
600
500

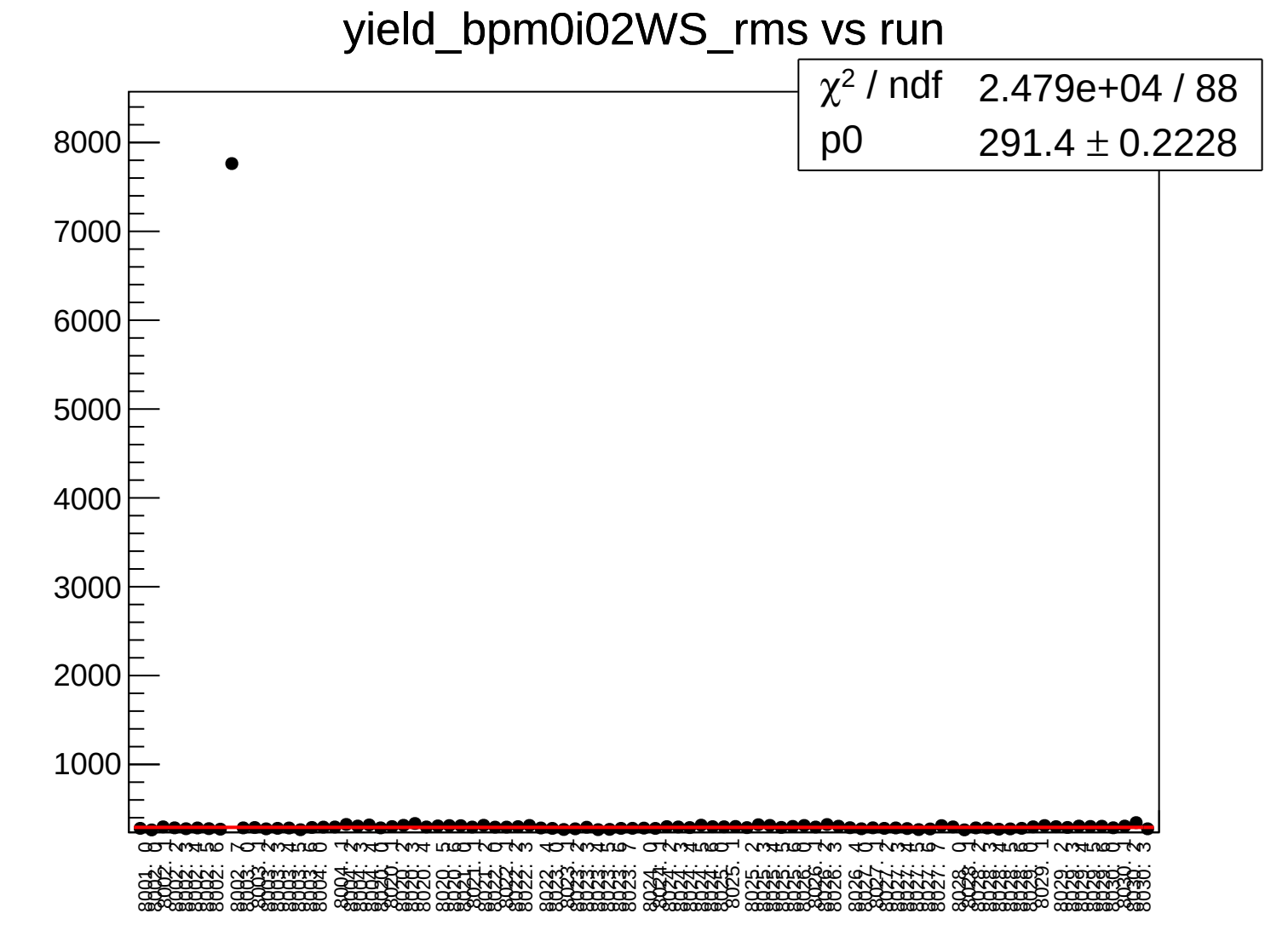

yield_bpm0r05WS_mean vs run
×10^3
χ^2 / ndf 8.433e+05 / 88
p0 1.348e+05 ± 0.4289
135.4
135.2
135
134.8
134.6
134.4
134.2
pull
Entries 89
Mean 144.6
Std Dev 0
200
150
100
50
0
−50
−100

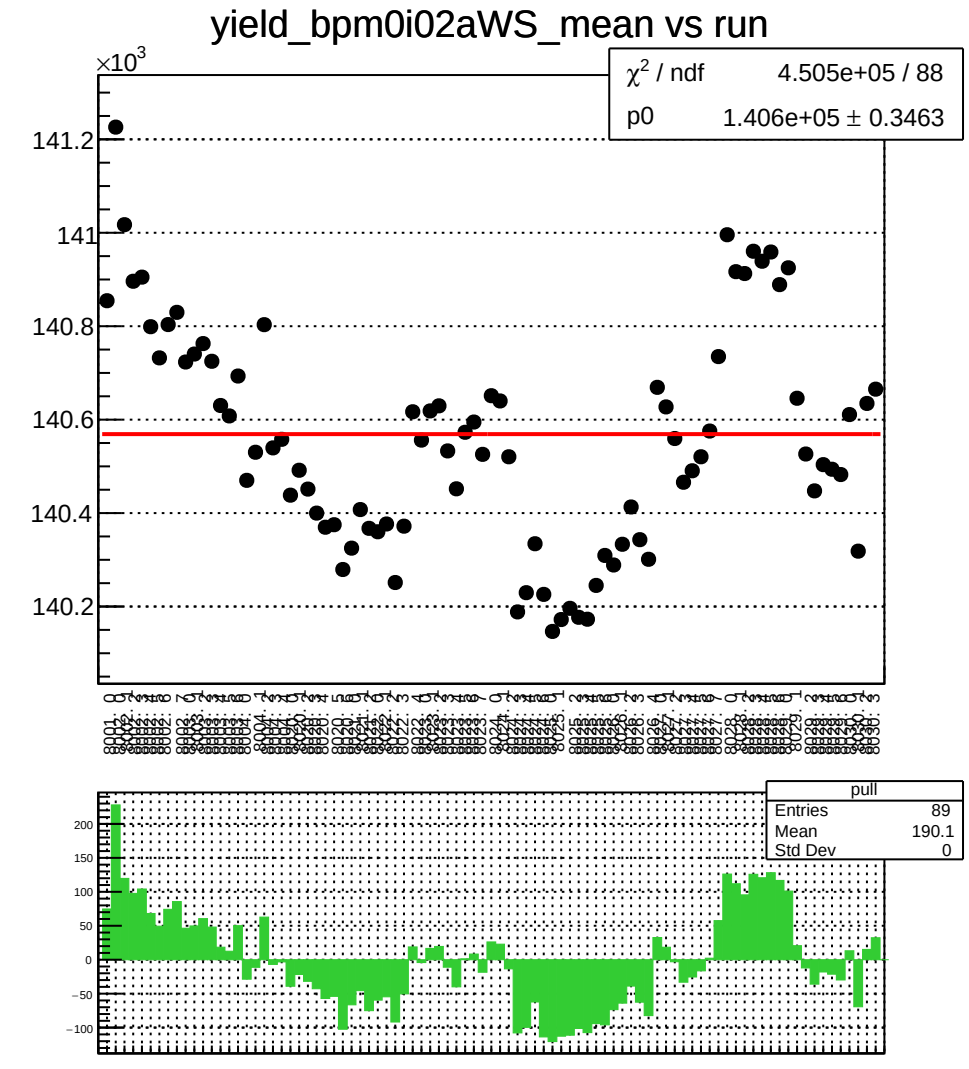

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

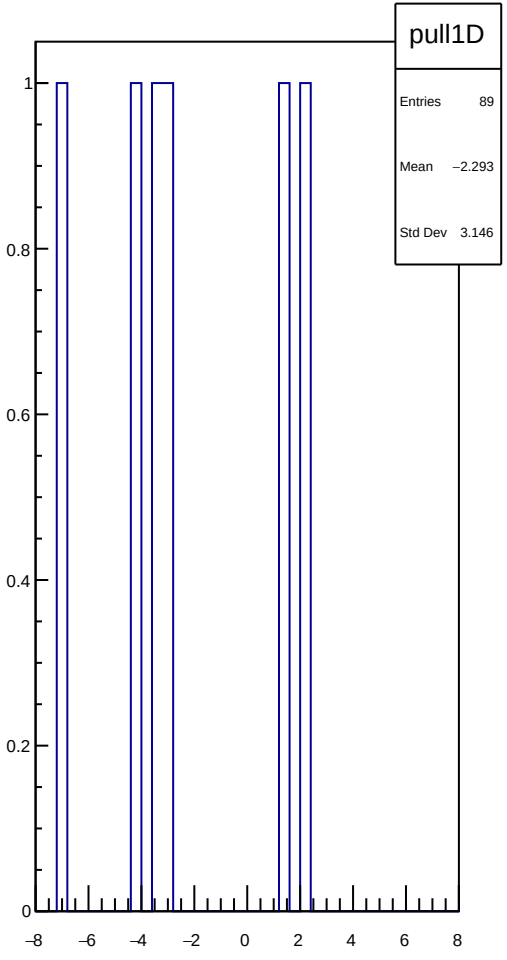

yield_bpm0r05WS_rms vs run
χ² / ndf 8.099e+04 / 88
p0 390 ± 0.3032
650
600
550
500
450
400
350
300
250

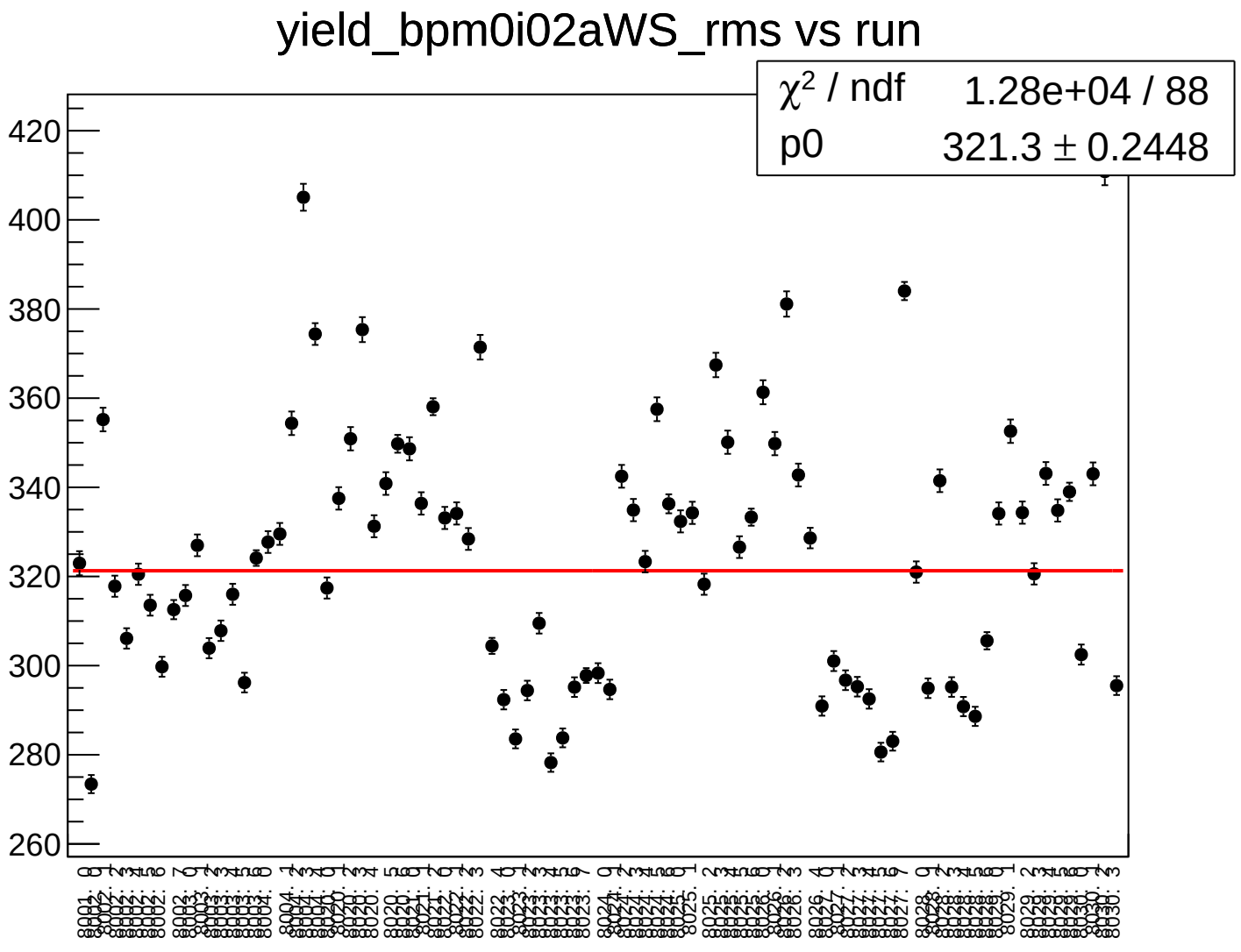

yield_bpm0i02WS_mean vs run
×10^3
χ² / ndf 1.982e+05 / 88
p0 1.381e+05 ± 0.3152
138.5
138
137.5
137
136.5
136
pull
Entries 89
Mean 30.17
Std Dev 0
120
100
80
60
40
20
0
−20
−40
−60
−80

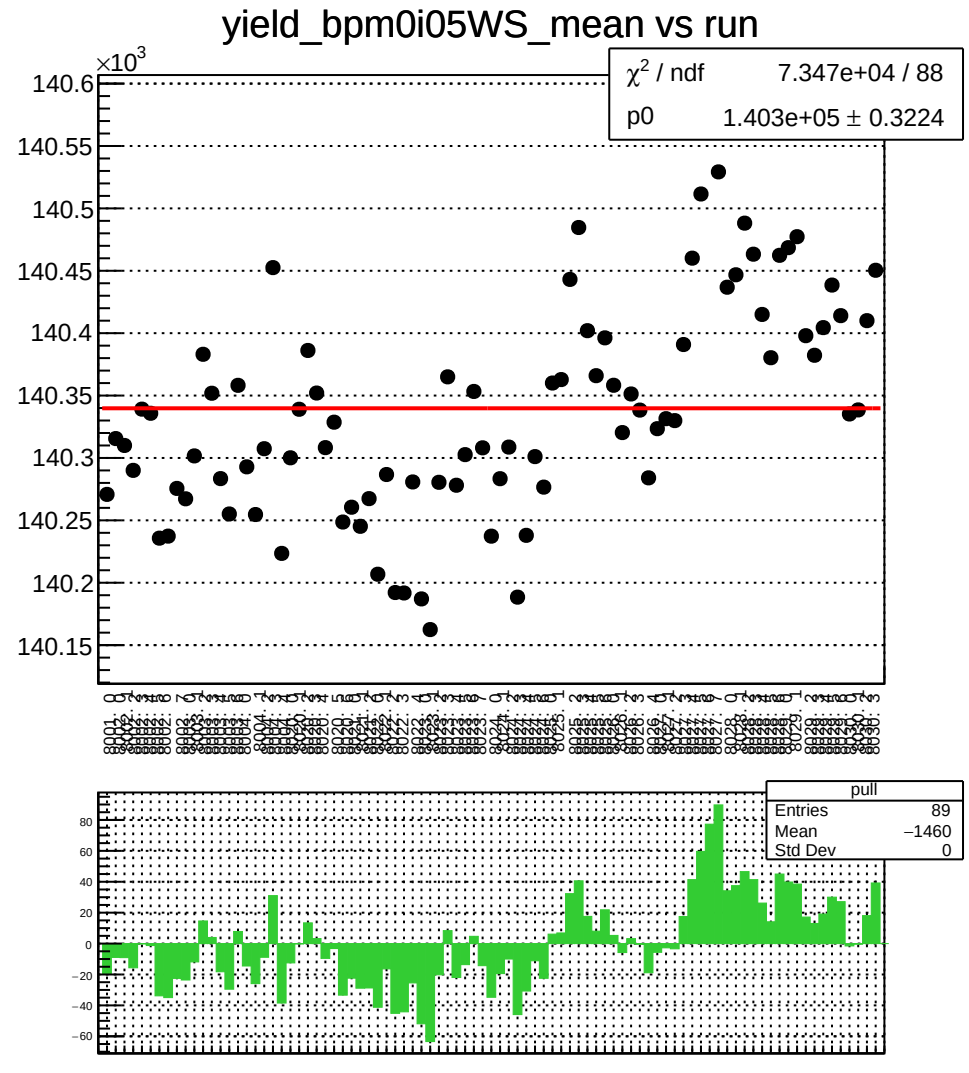

pull1D
Entries 89
Mean −0.28
Std Dev 4.857
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

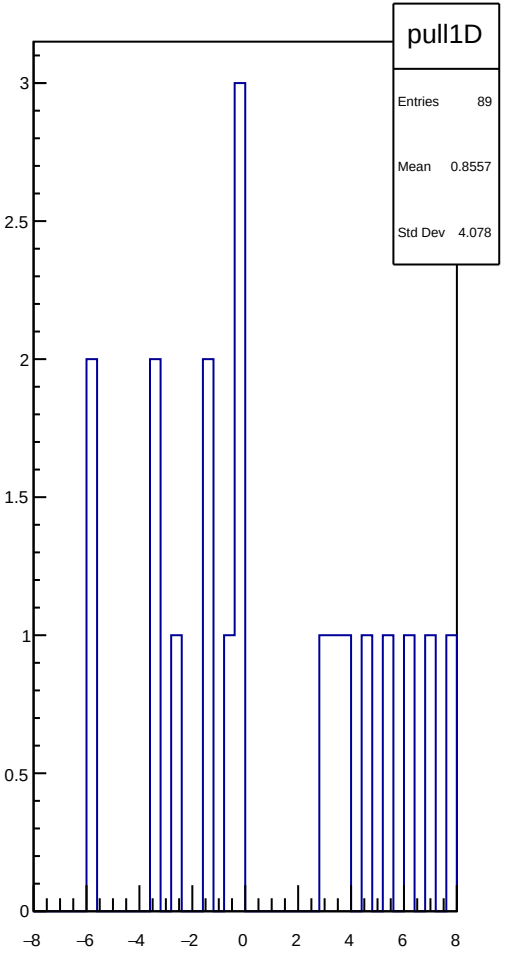

yield_bpm0i02WS_rms vs run
χ² / ndf 2.479e+04 / 88
p0 291.4 ± 0.2228
8000
7000
6000
5000
4000
3000
2000
1000

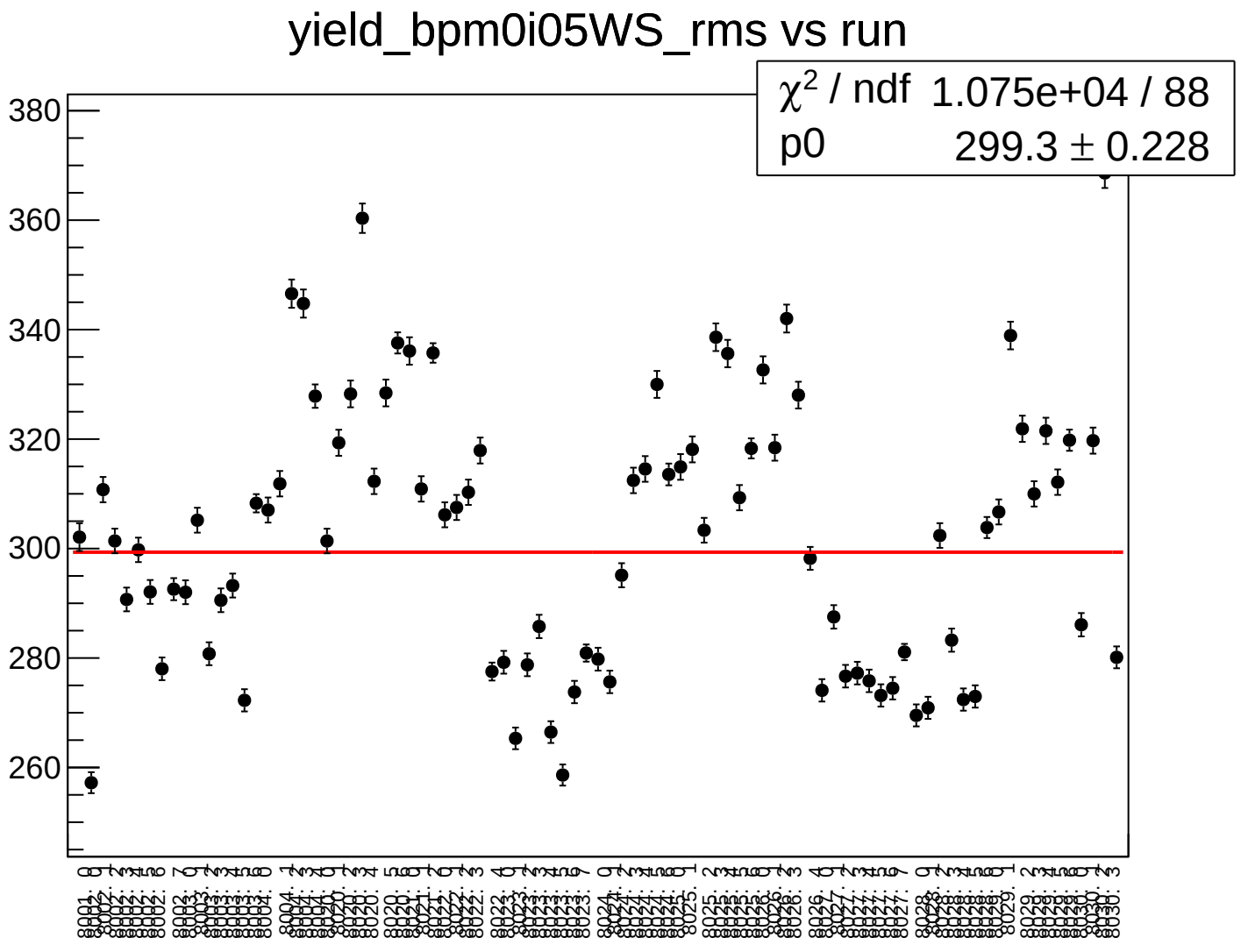

yield_bpm0i02aWS_mean vs run
×10^3
χ² / ndf 4.505e+05 / 88
p0 1.406e+05 ± 0.3463
141.2
141
140.8
140.6
140.4
140.2
pull
Entries 89
Mean 190.1
Std Dev 0
200
150
100
50
0
−50
−100

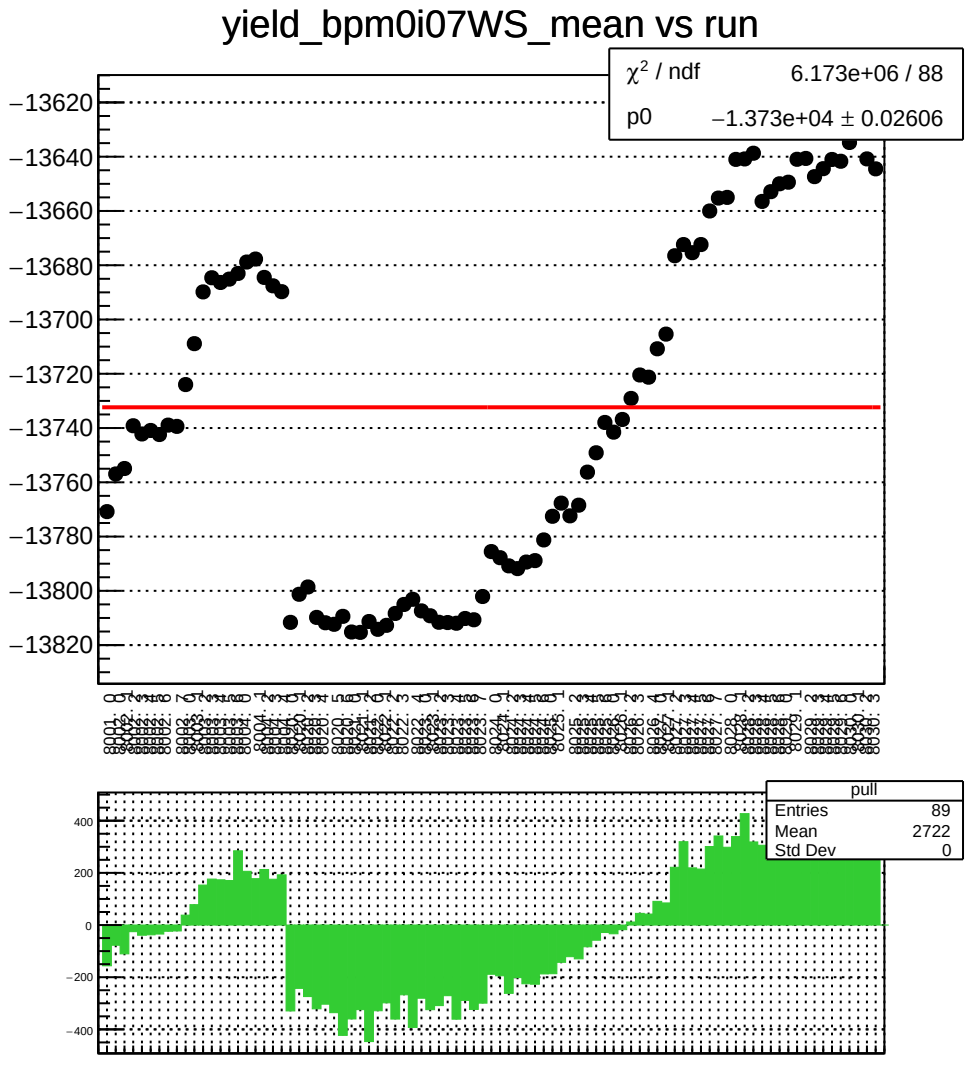

pull1D
Entries 89
Mean −2.293
Std Dev 3.146
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

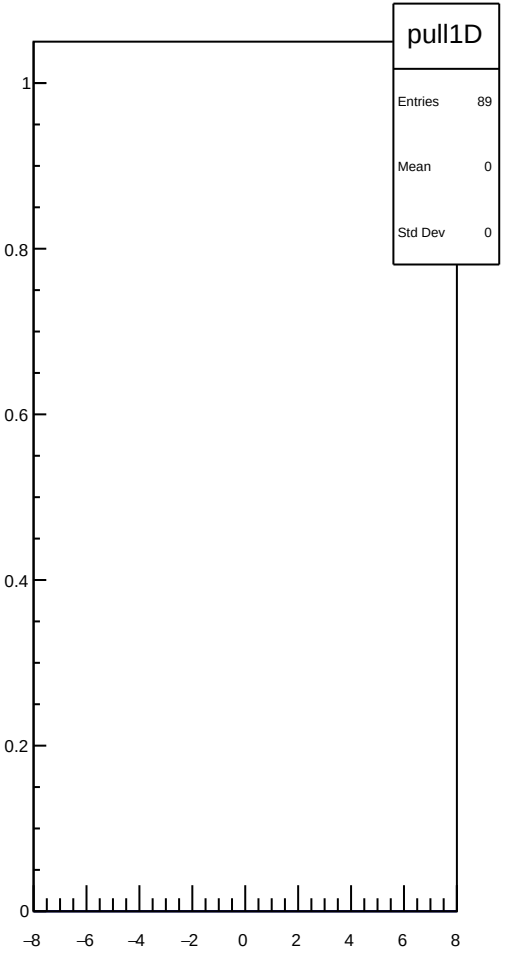

yield_bpm0i02aWS_rms vs run
χ² / ndf 1.28e+04 / 88
p0 321.3 ± 0.2448
420
400
380
360
340
320
300
280
260

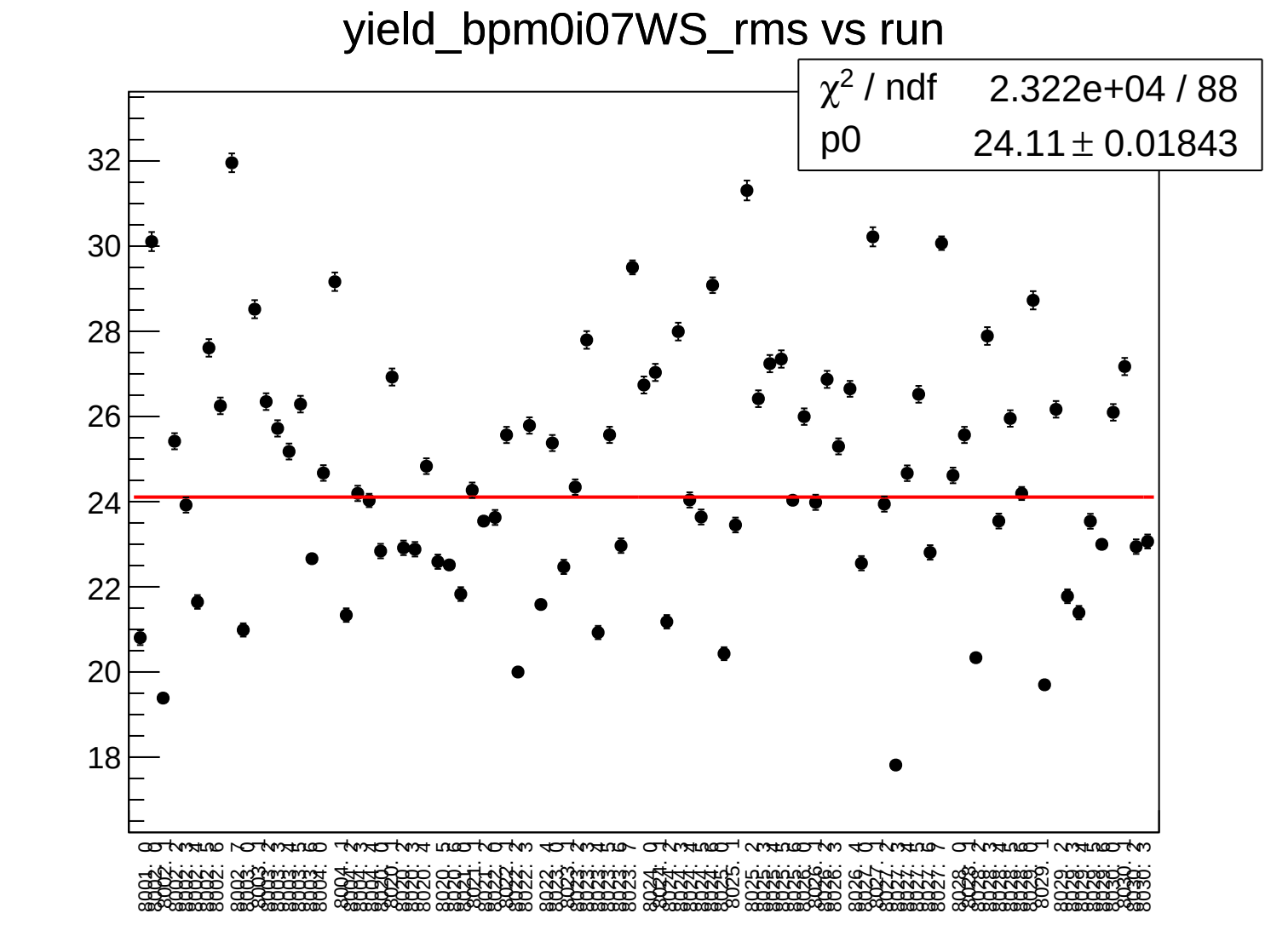

yield_bpm0i05WS_mean vs run
×10^3
χ² / ndf 7.347e+04 / 88
p0 1.403e+05 ± 0.3224
140.6
140.55
140.5
140.45
140.4
140.35
140.3
140.25
140.2
140.15
pull
Entries 89
Mean −1460
Std Dev 0
80
60
40
20
0
−20
−40
−60

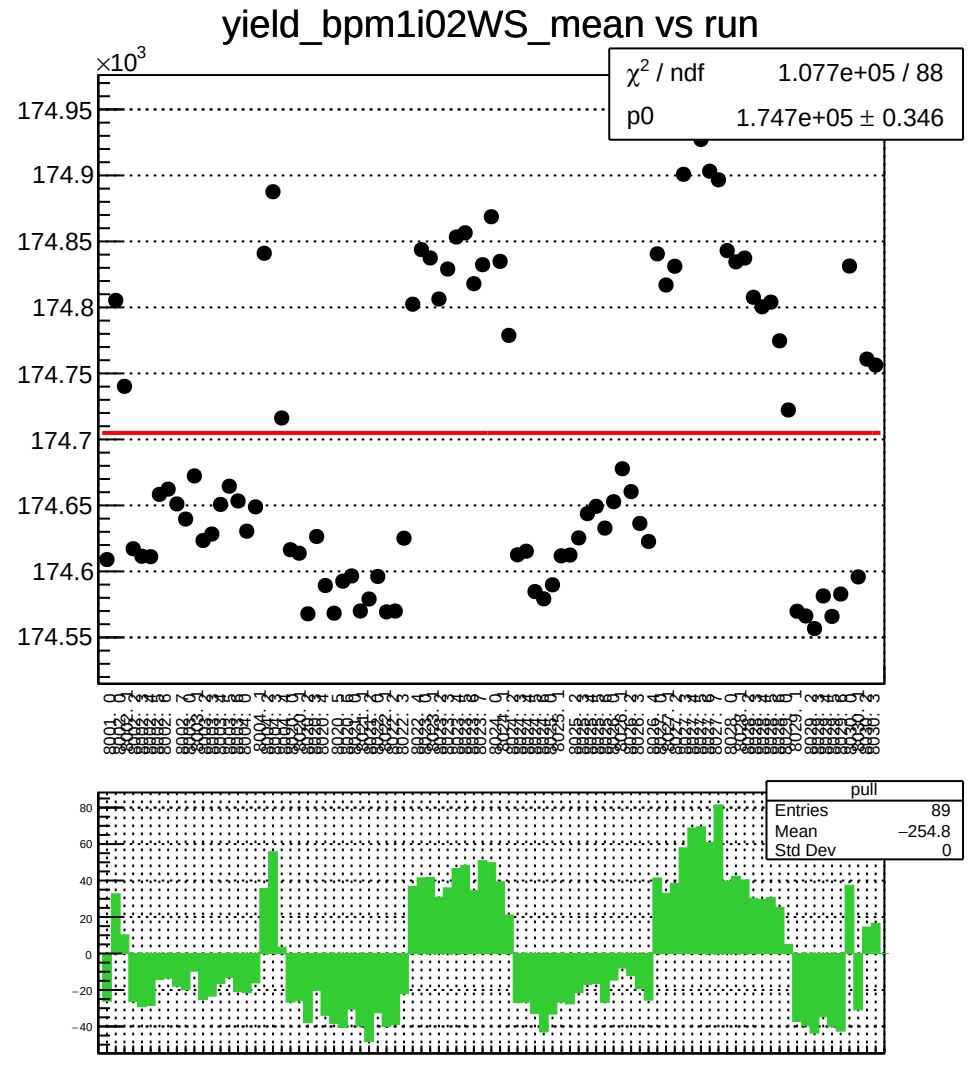

pull1D
Entries 89
Mean 0.8557
Std Dev 4.078
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

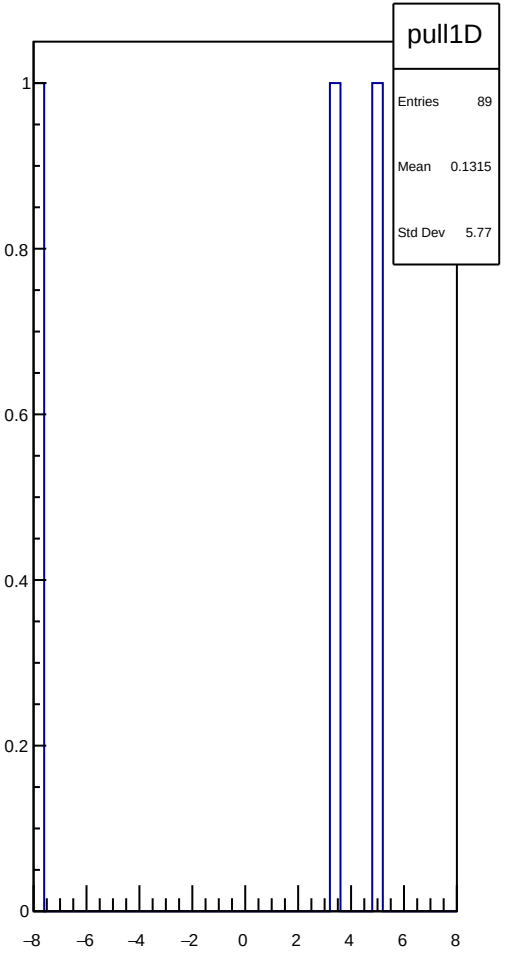

yield_bpm0i05WS_rms vs run
χ² / ndf 1.075e+04 / 88
p0 299.3 ± 0.228
380
360
340
320
300
280
260

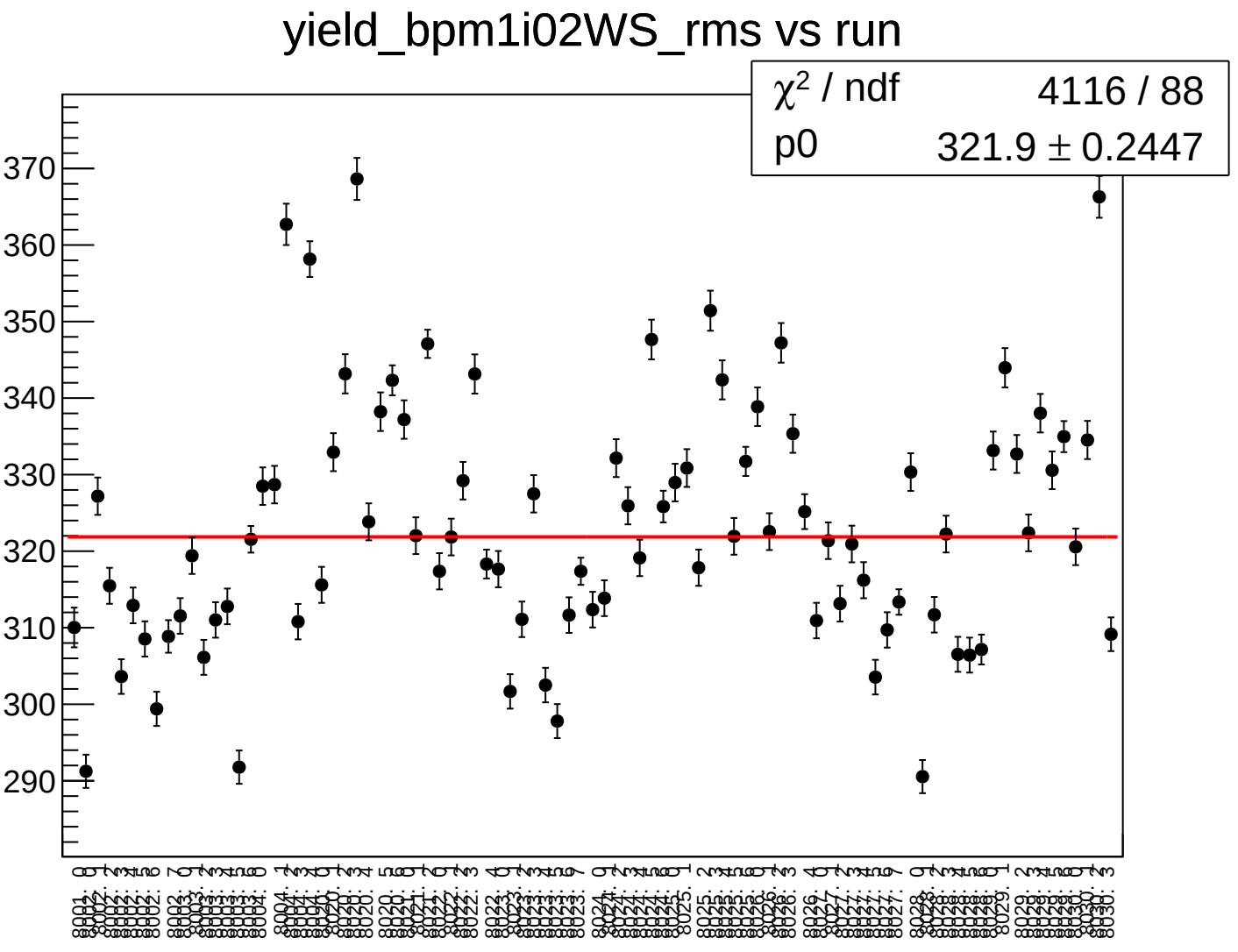

yield_bpm0i07WS_mean vs run
χ² / ndf 6.173e+06 / 88
p0 −1.373e+04 ± 0.02606
pull
Entries 89
Mean 2722
Std Dev 0

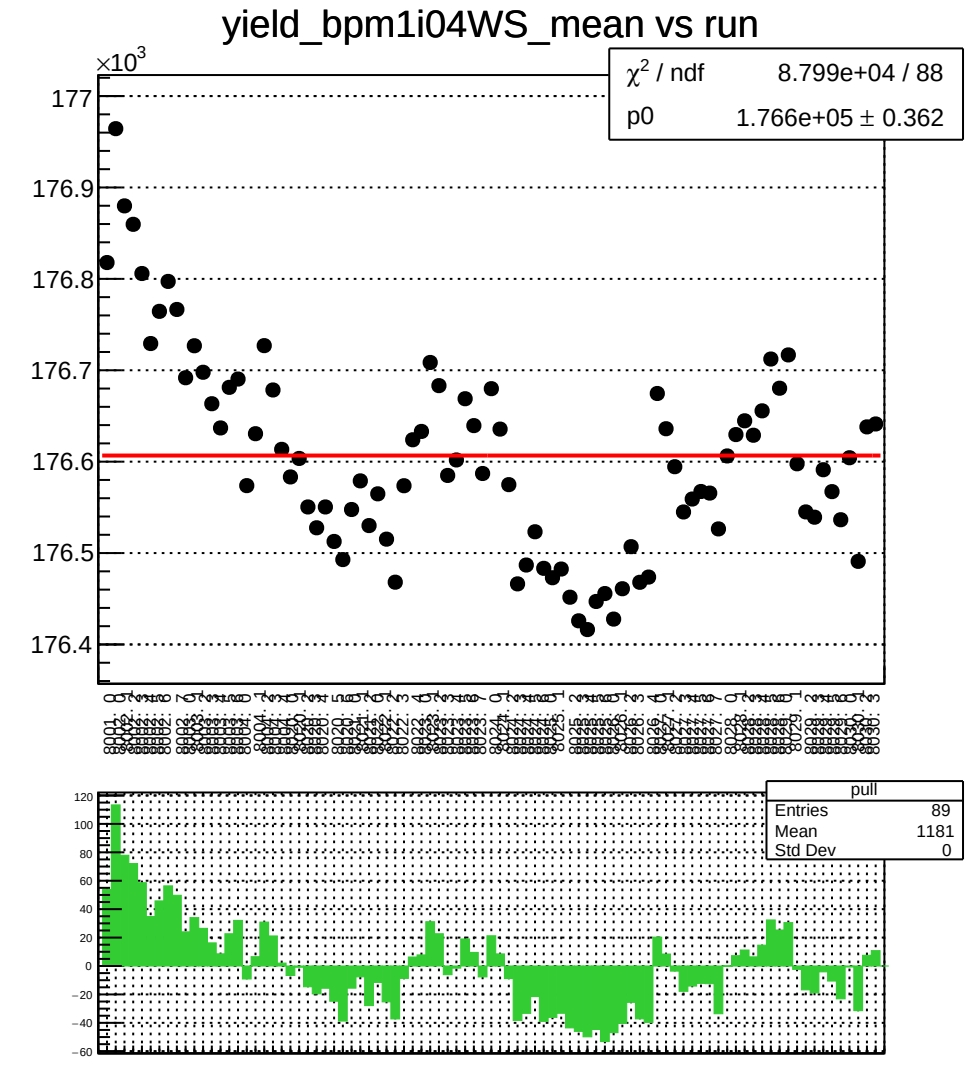

pull1D
Entries 89
Mean 0
Std Dev 0

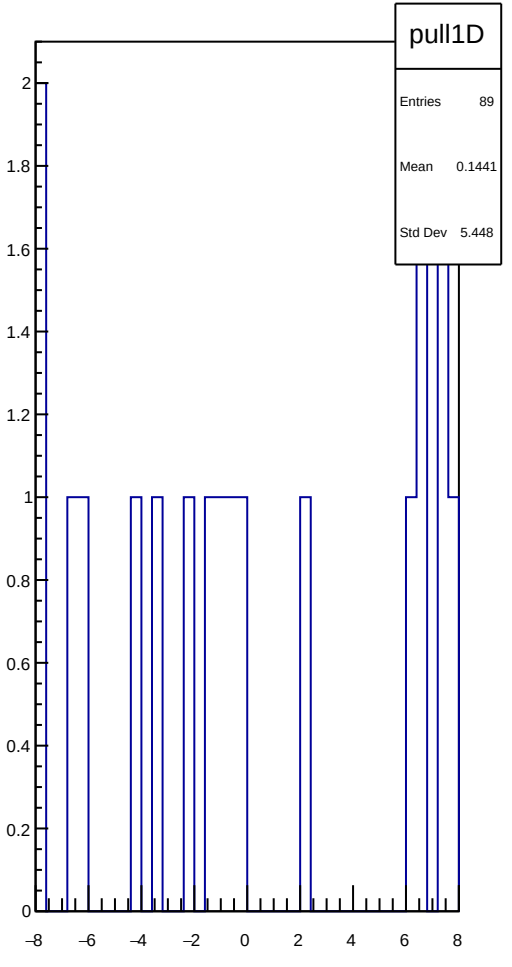

yield_bpm0i07WS_rms vs run
χ² / ndf 2.322e+04 / 88
p0 24.11 ± 0.01843
32
30
28
26
24
22
20
18

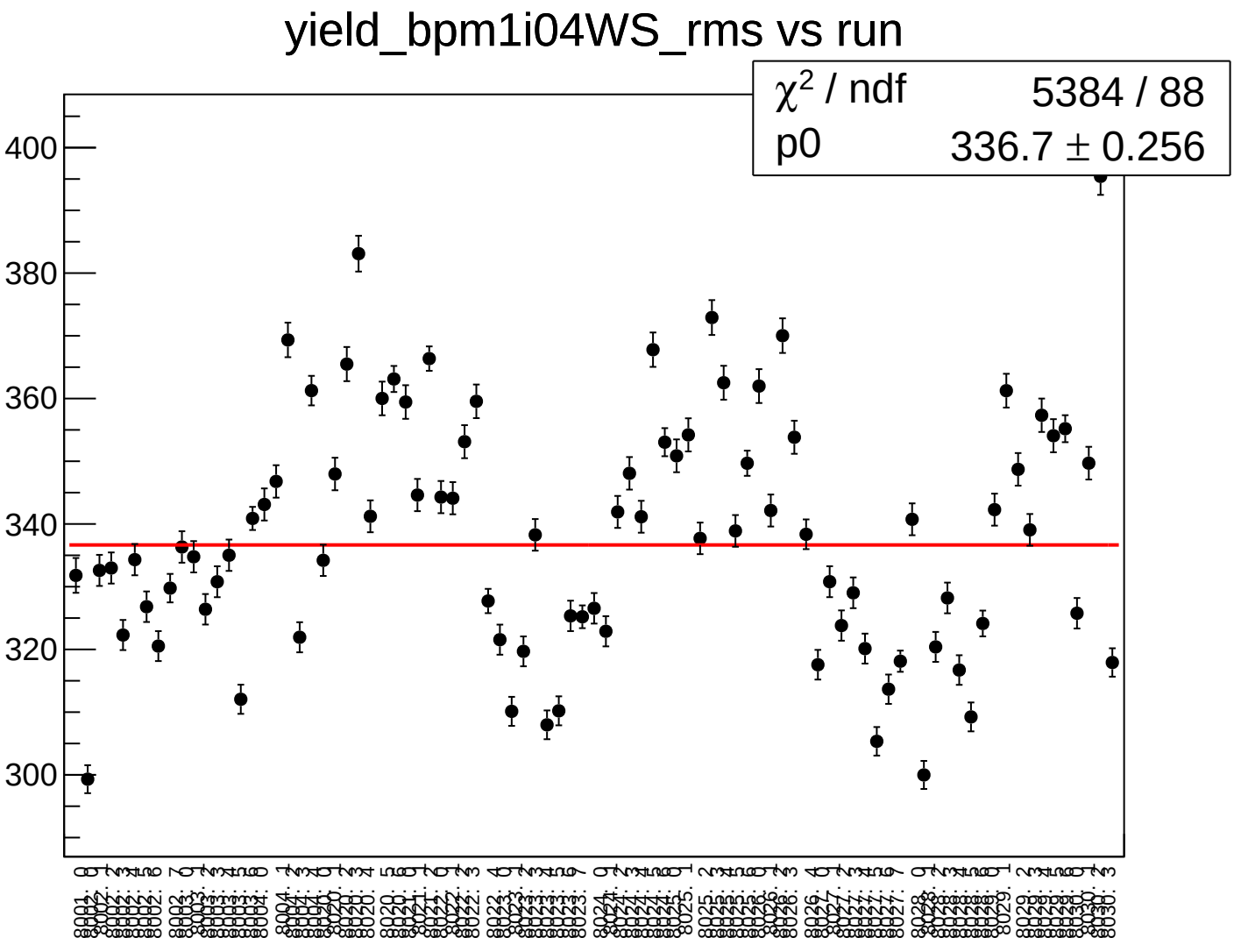

yield_bpm1i02WS_mean vs run
×10^3
χ² / ndf 1.077e+05 / 88
p0 1.747e+05 ± 0.346
174.95
174.9
174.85
174.8
174.75
174.7
174.65
174.6
174.55
pull
Entries 89
Mean −254.8
Std Dev 0
80
60
40
20
0
−20
−40

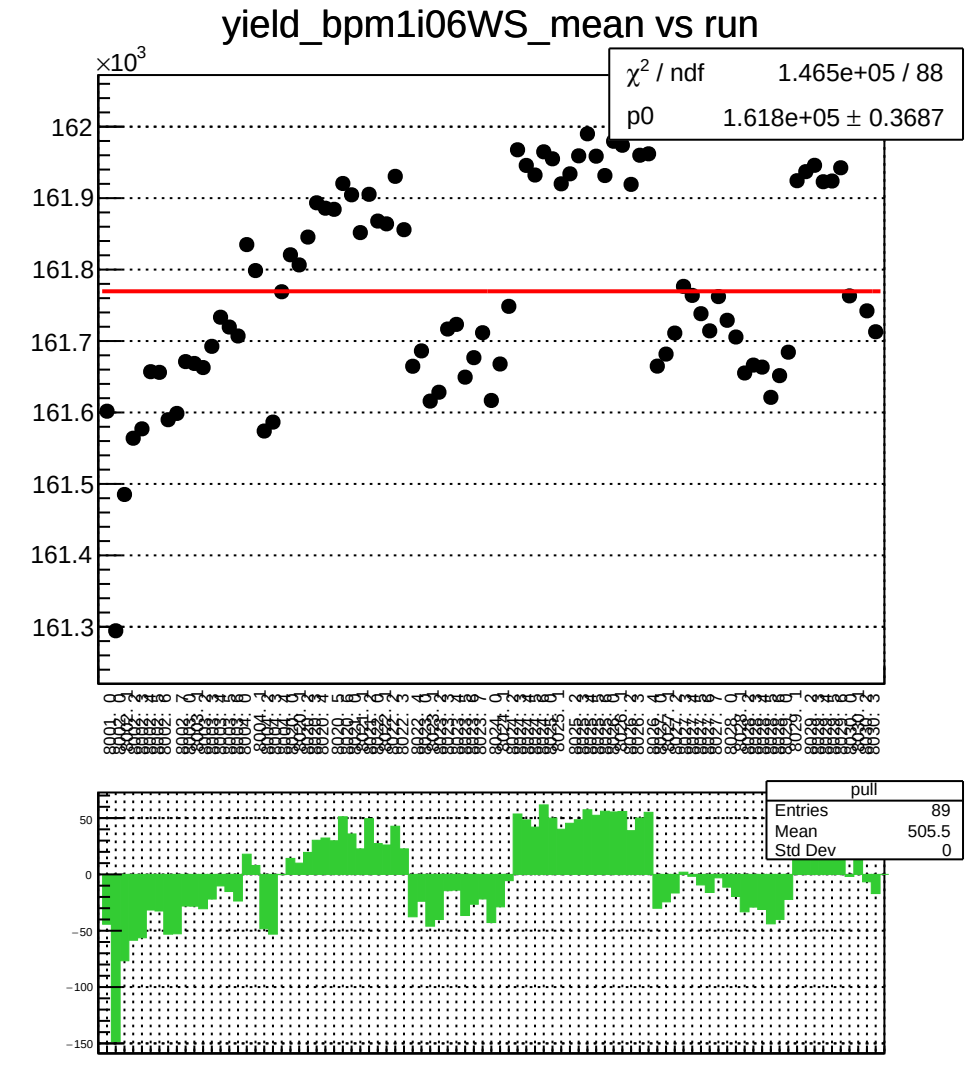

pull1D
Entries 89
Mean 0.1315
Std Dev 5.77
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

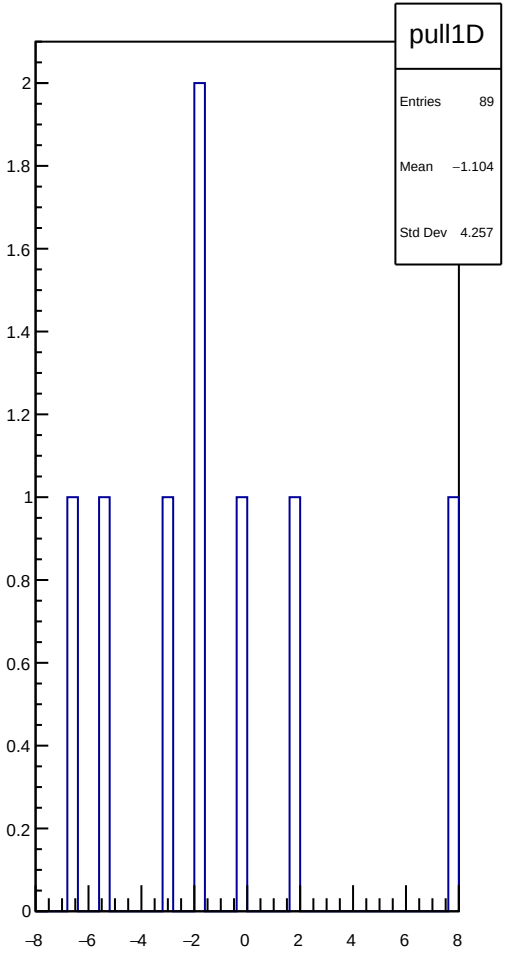

yield_bpm1i02WS_rms vs run
χ² / ndf 4116 / 88
p0 321.9 ± 0.2447
370
360
350
340
330
320
310
300
290

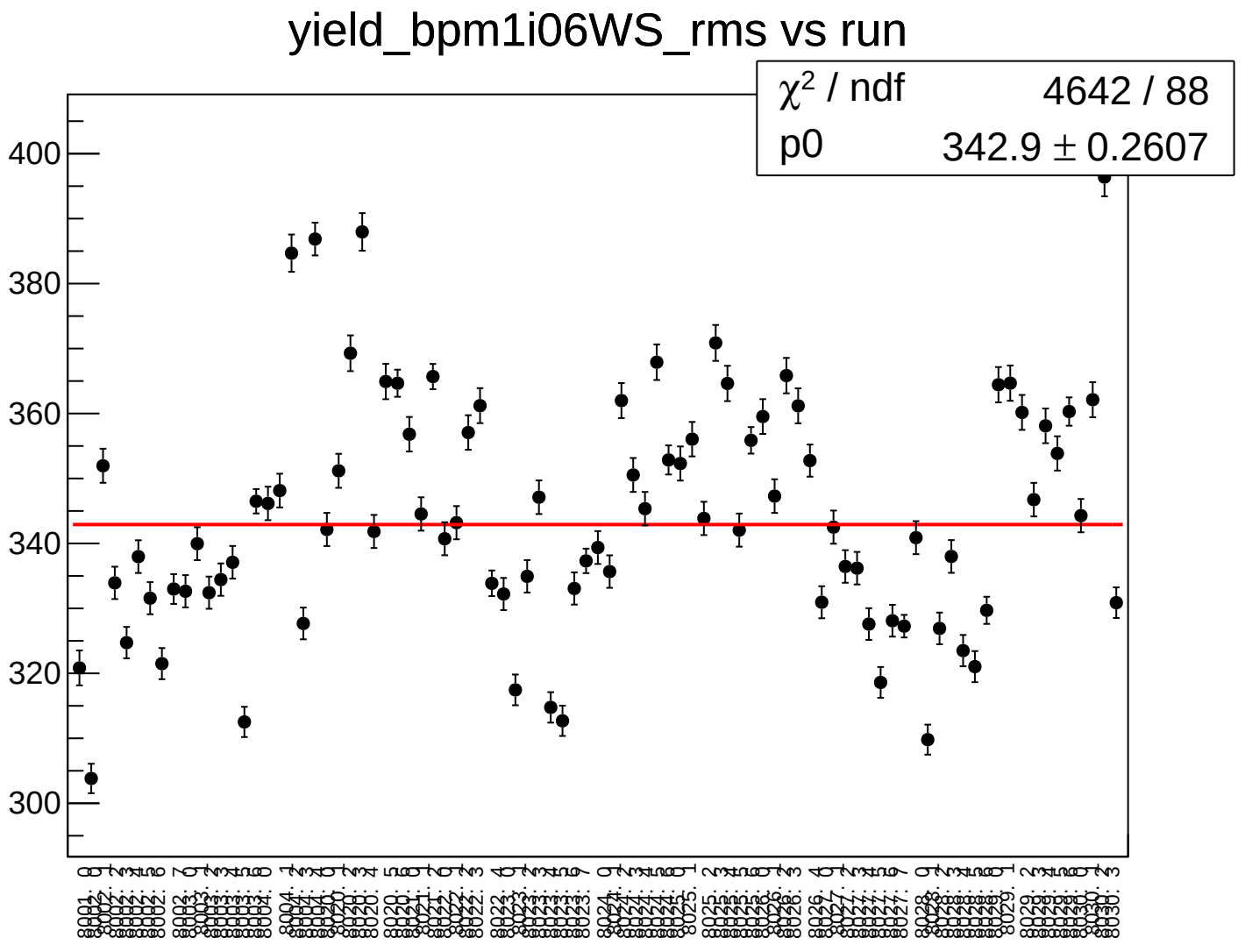

yield_bpm1i04WS_mean vs run
×10^3
χ² / ndf 8.799e+04 / 88
p0 1.766e+05 ± 0.362
177
176.9
176.8
176.7
176.6
176.5
176.4
pull
Entries 89
Mean 1181
Std Dev 0
120
100
80
60
40
20
0
−20
−40
−60

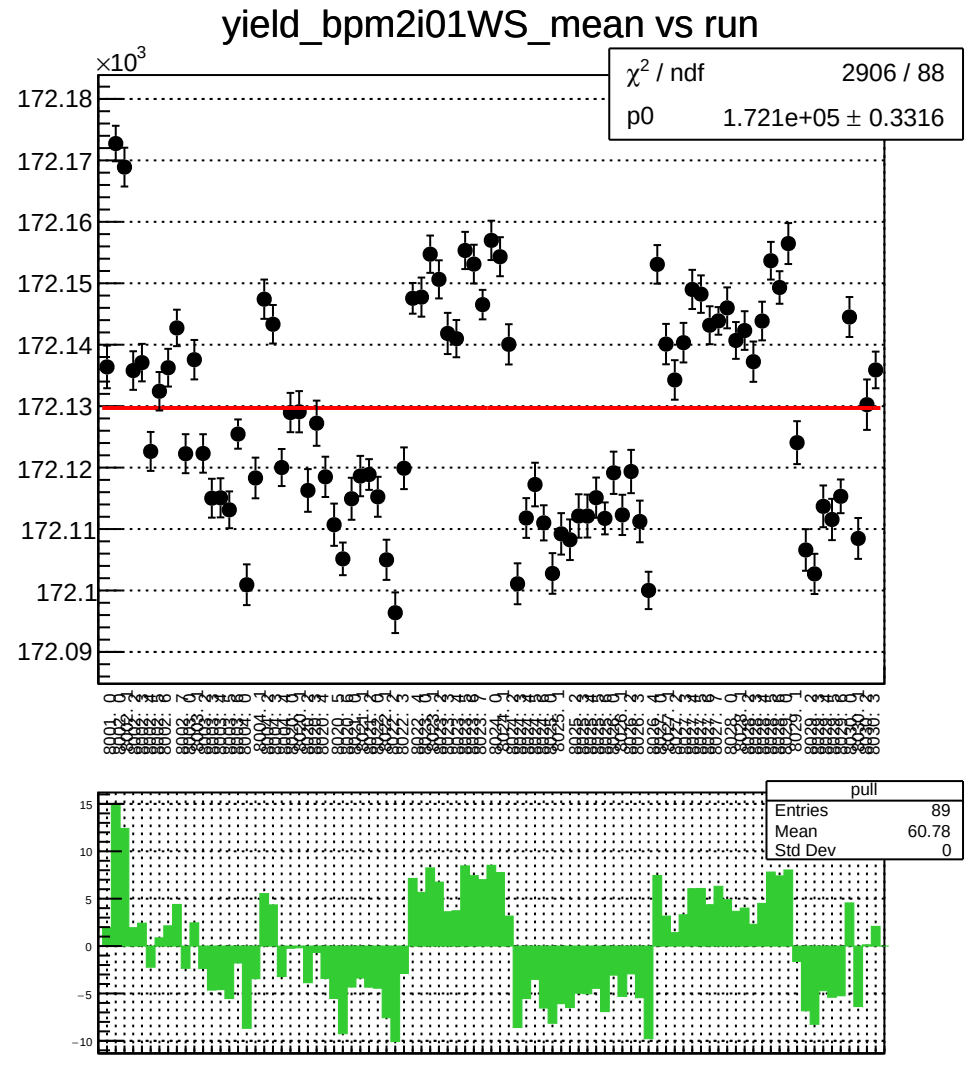

pull1D
Entries 89
Mean 0.1441
Std Dev 5.448
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

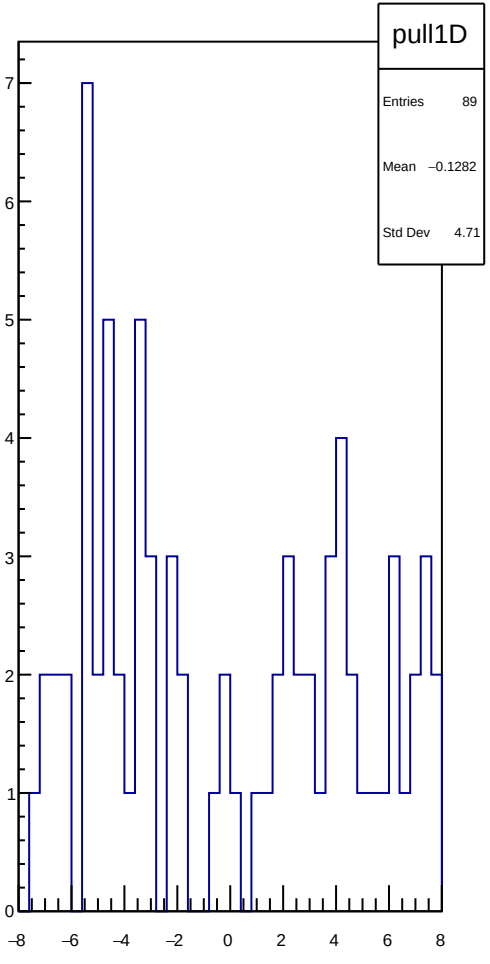

yield_bpm1i04WS_rms vs run
χ² / ndf 5384 / 88
p0 336.7 ± 0.256
400
380
360
340
320
300

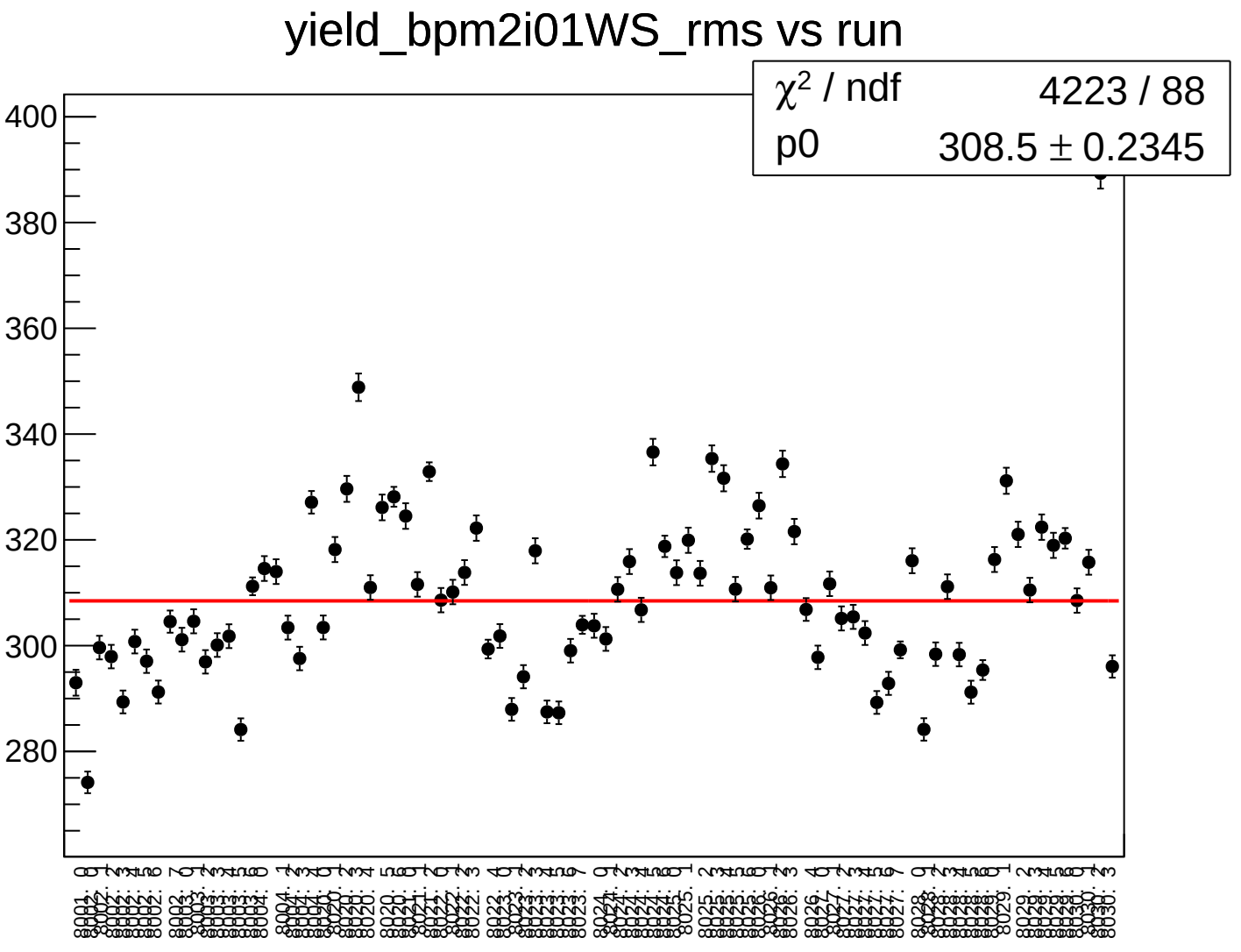

yield_bpm1i06WS_mean vs run
×10^3
χ² / ndf 1.465e+05 / 88
p0 1.618e+05 ± 0.3687
162
161.9
161.8
161.7
161.6
161.5
161.4
161.3
pull
Entries 89
Mean 505.5
Std Dev 0
50
0
−50
−100
−150

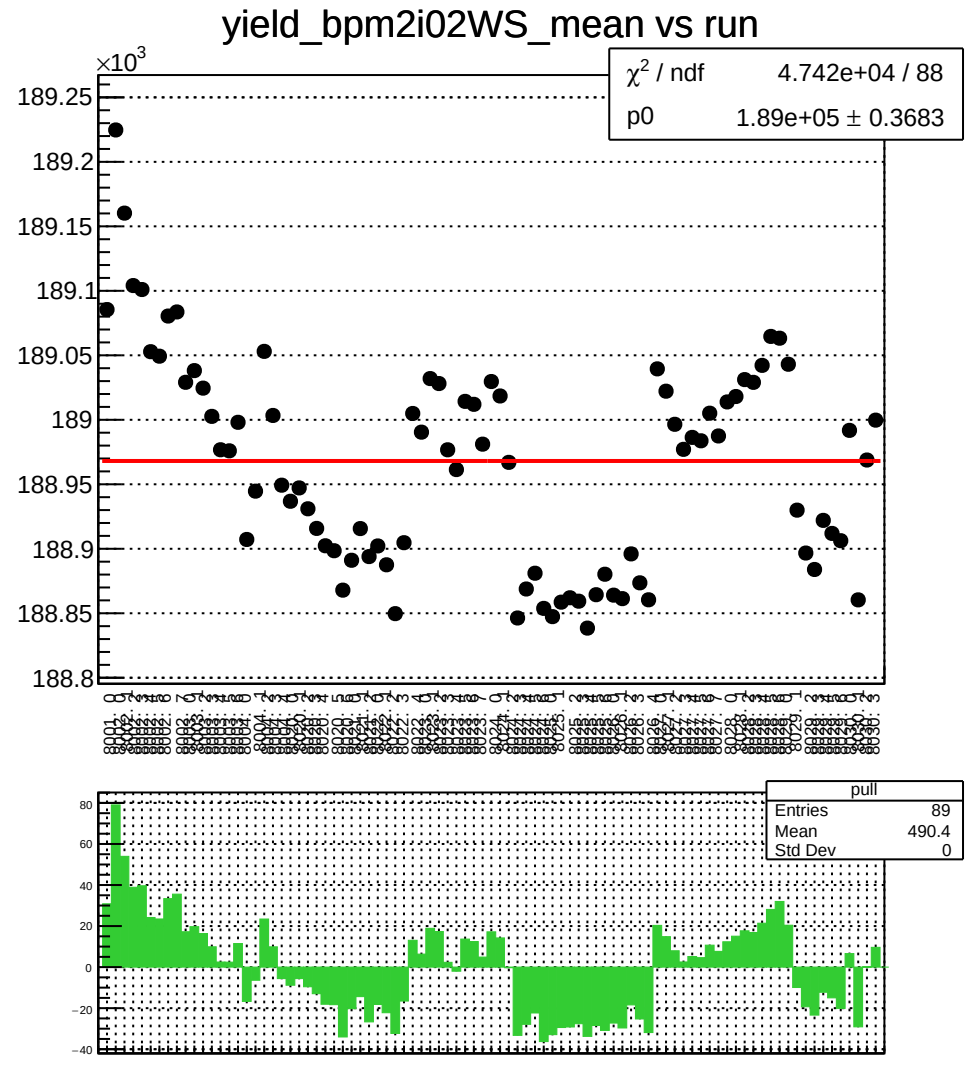

pull1D
Entries 89
Mean −1.104
Std Dev 4.257
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

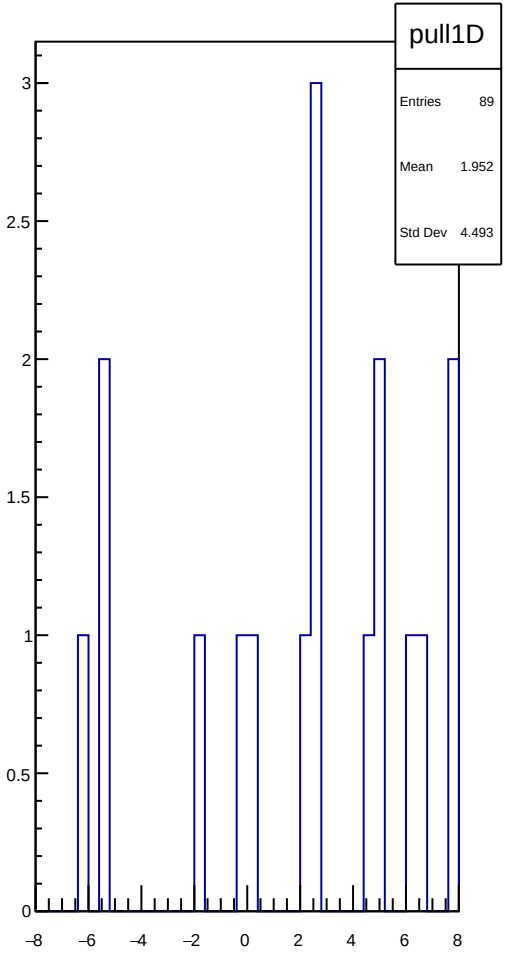

yield_bpm1i06WS_rms vs run
χ² / ndf 4642 / 88
p0 342.9 ± 0.2607
400
380
360
340
320
300

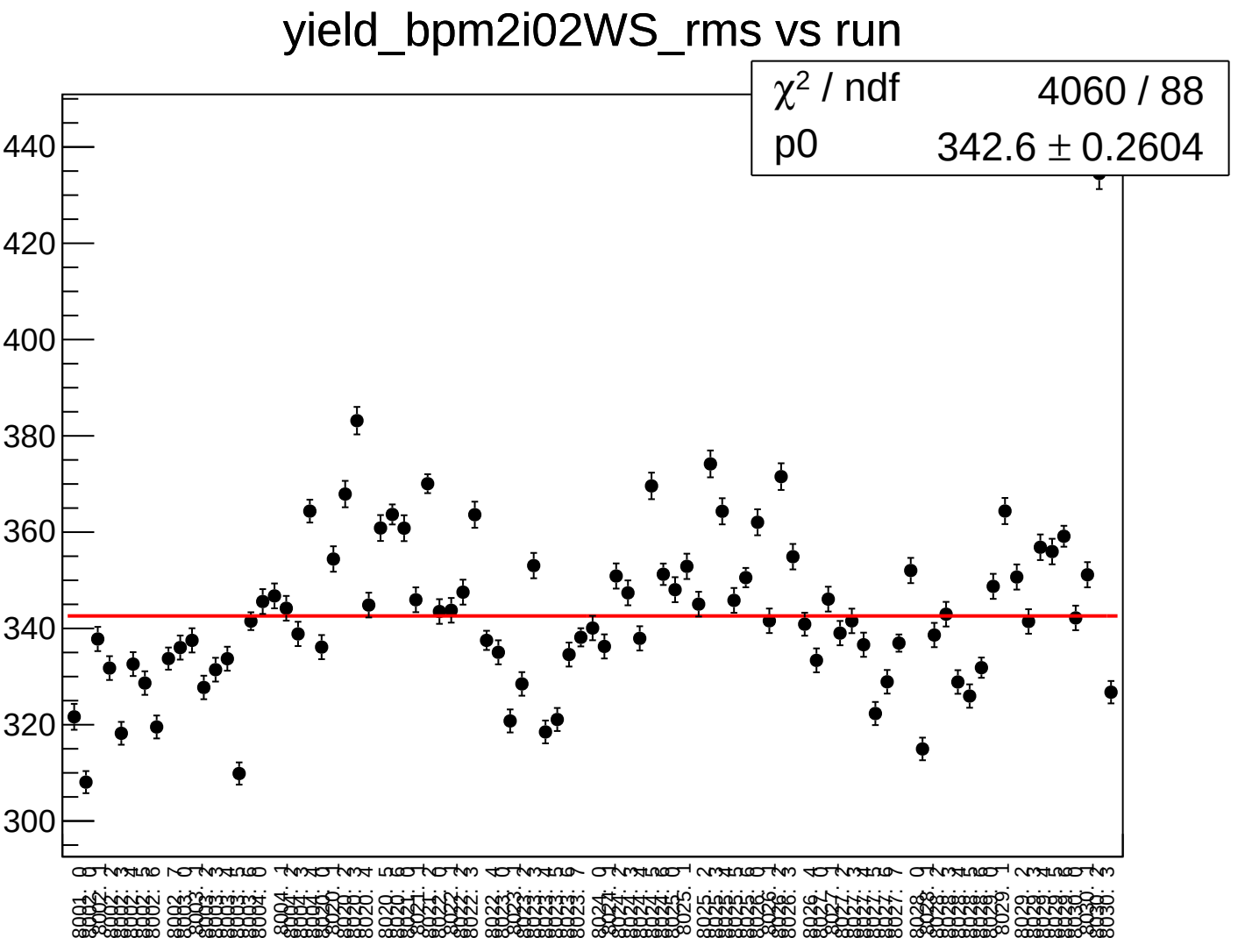

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 2906 / 88
p0 1.721e+05 ± 0.3316
172.18
172.17
172.16
172.15
172.14
172.13
172.12
172.11
172.1
172.09
pull
Entries 89
Mean 60.78
Std Dev 0
15
10
5
0
−5
−10

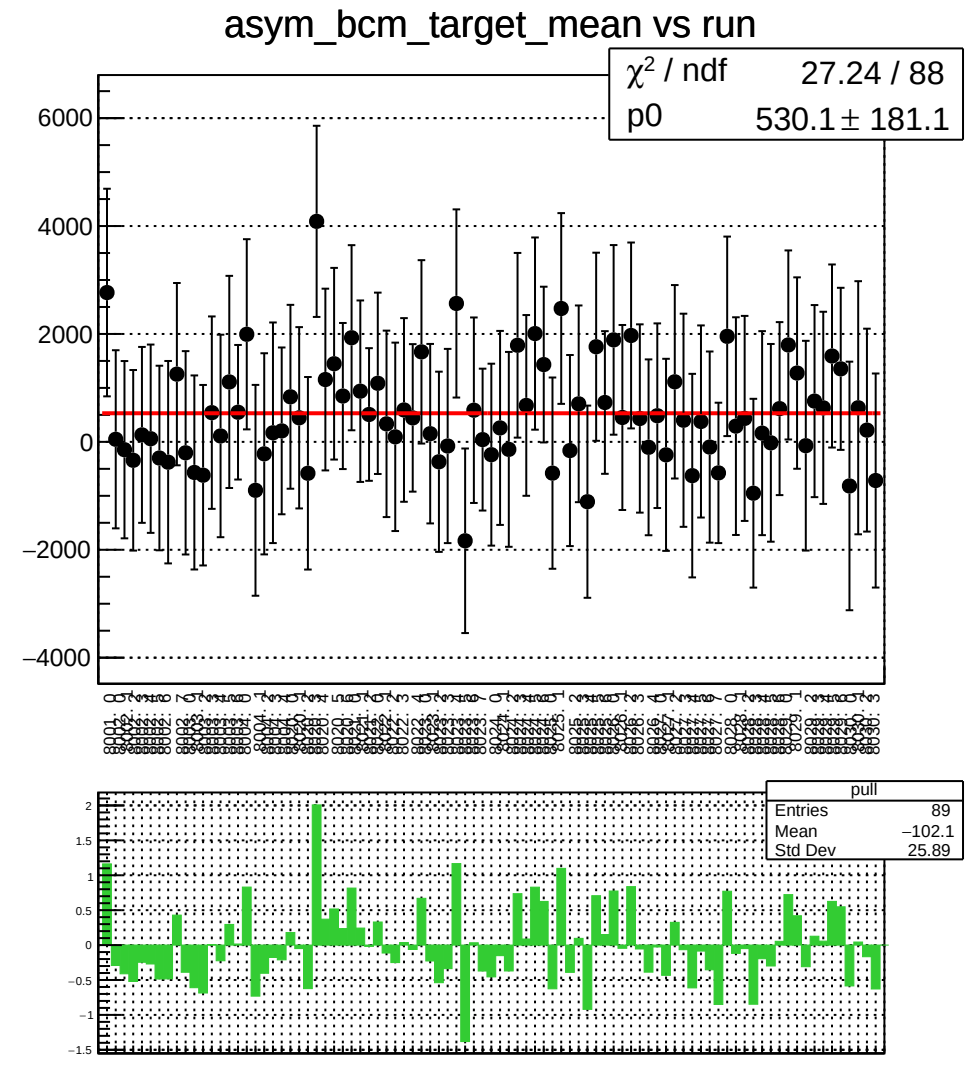

pull1D
Entries 89
Mean −0.1282
Std Dev 4.71
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

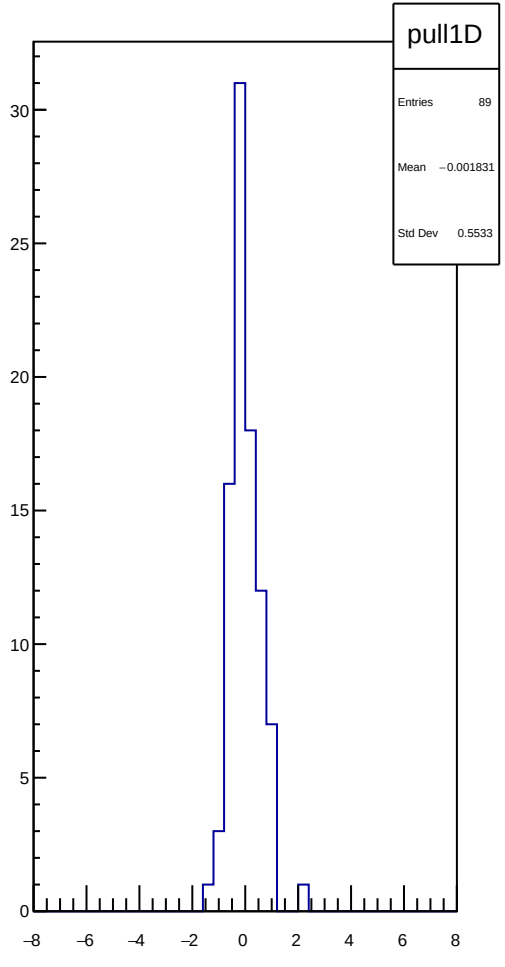

yield_bpm2i01WS_rms vs run
χ² / ndf 4223 / 88
p0 308.5 ± 0.2345
400
380
360
340
320
300
280

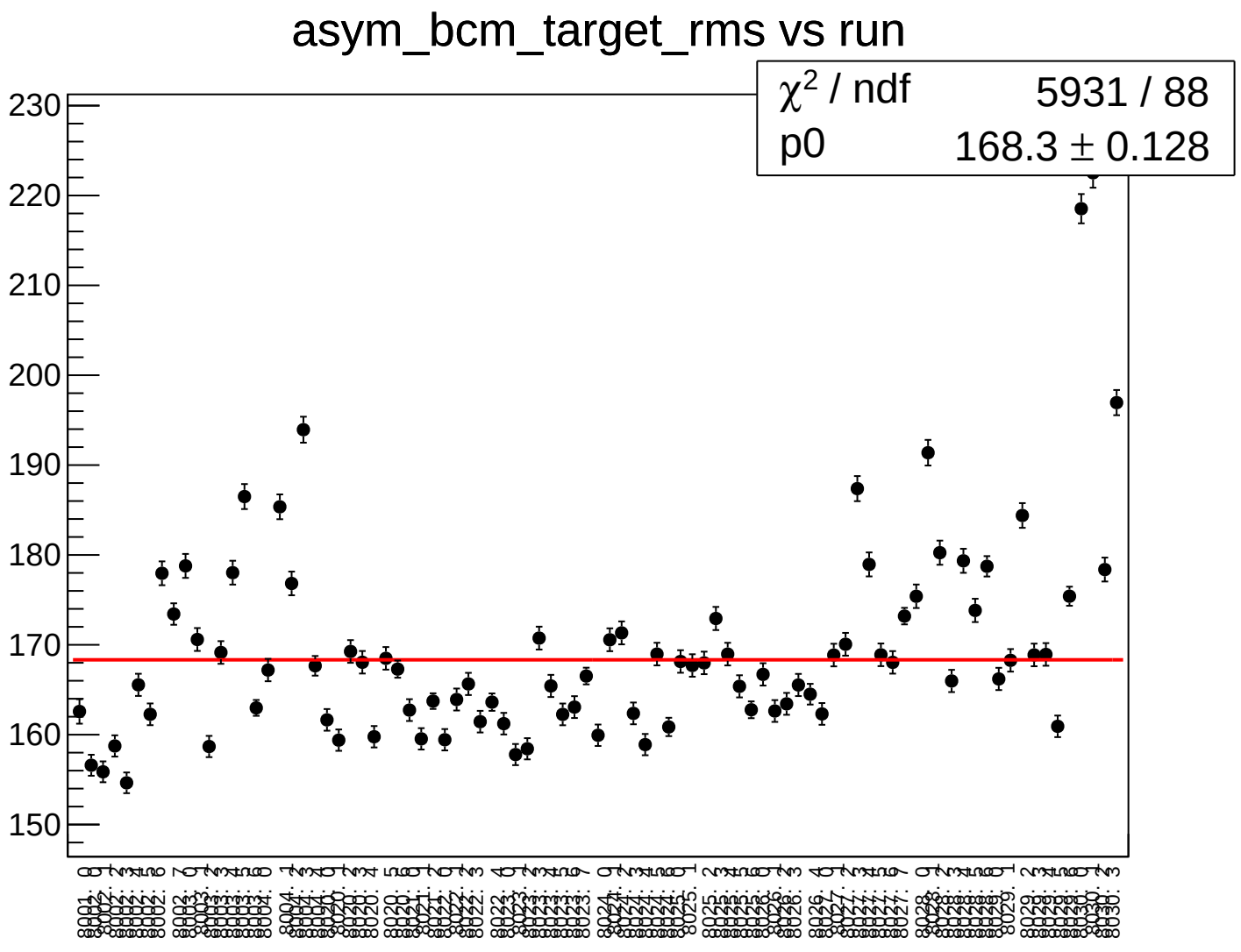

yield_bpm2i02WS_mean vs run
×10^3
χ^2 / ndf 4.742e+04 / 88
p0 1.89e+05 ± 0.3683
189.25
189.2
189.15
189.1
189.05
189
188.95
188.9
188.85
188.8
pull
Entries 89
Mean 490.4
Std Dev 0
80
60
40
20
0
−20
−40

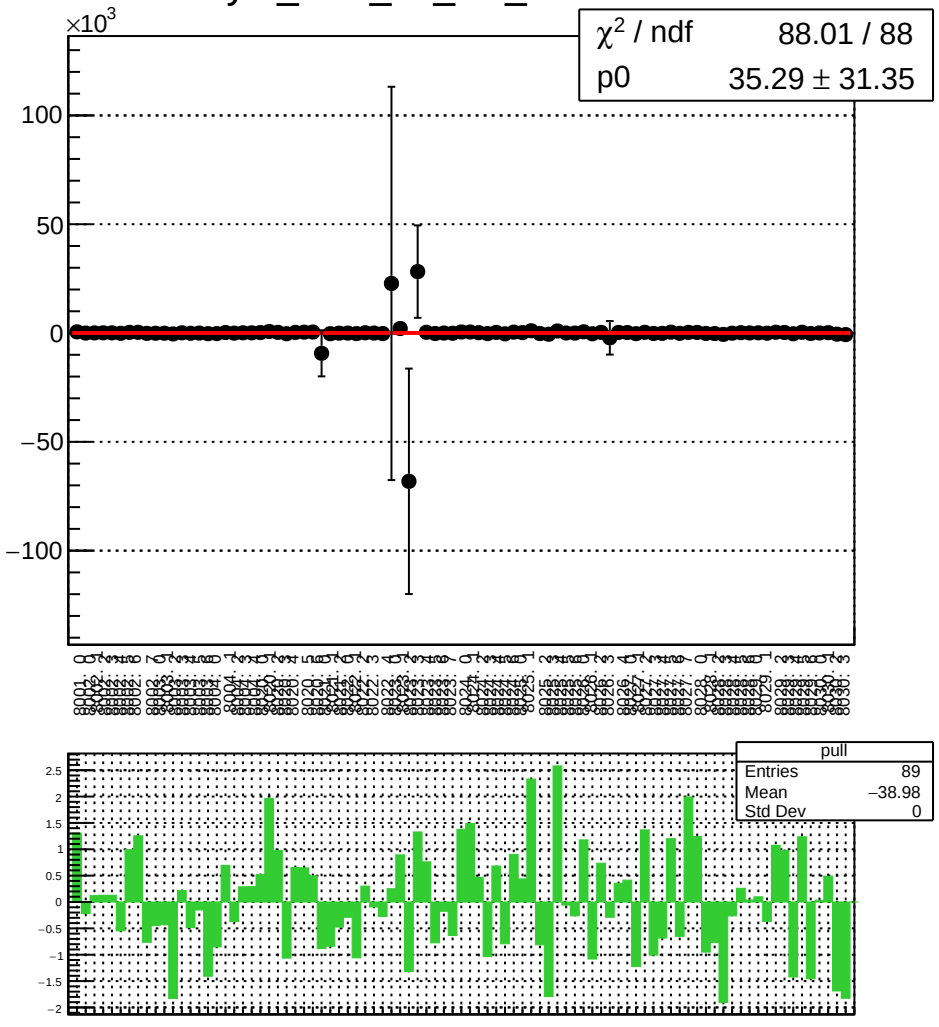

pull1D
Entries 89
Mean 1.952
Std Dev 4.493
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

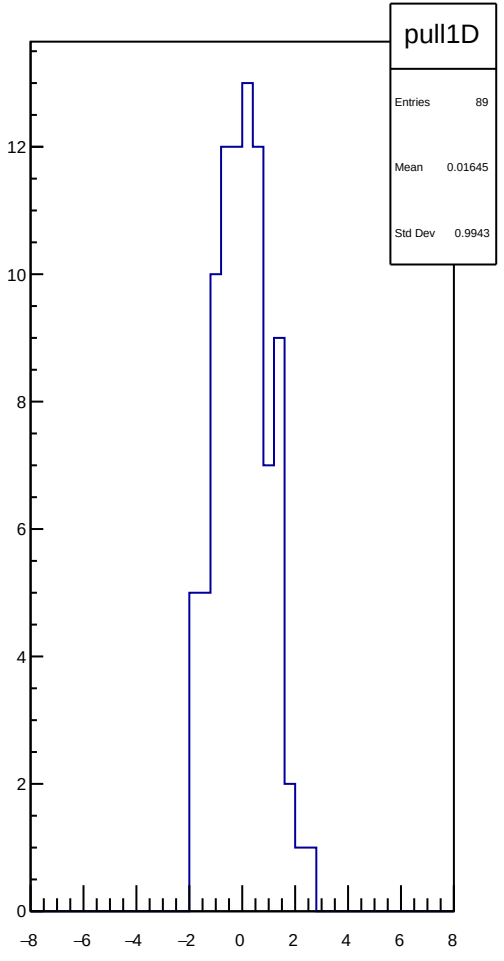

yield_bpm2i02WS_rms vs run
χ² / ndf 4060 / 88
p0 342.6 ± 0.2604
440
420
400
380
360
340
320
300

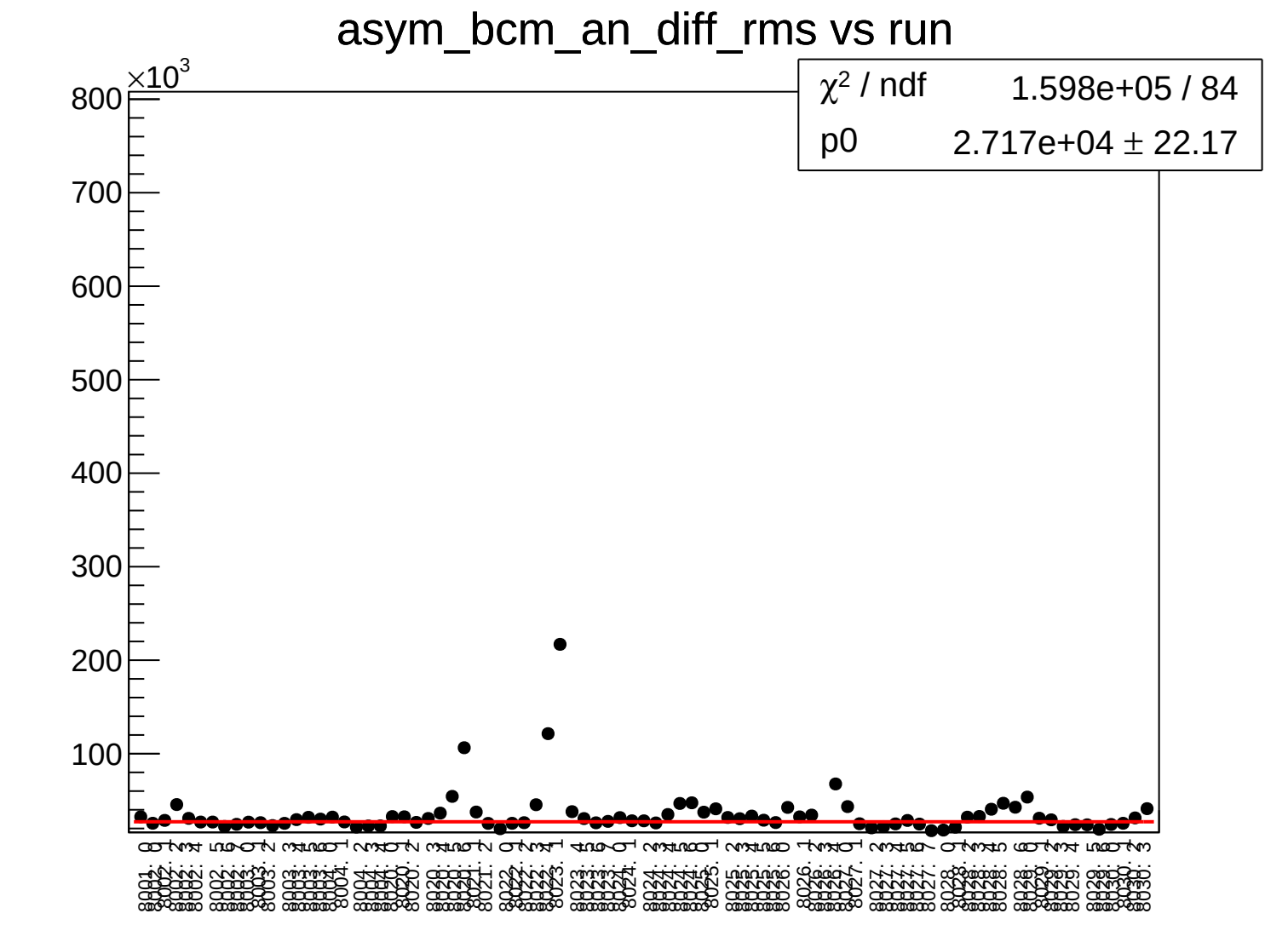

asym_bcm_target_mean vs run
χ² / ndf 27.24 / 88
p0 530.1 ± 181.1
6000
4000
2000
0
−2000
−4000
pull
Entries 89
Mean −102.1
Std Dev 25.89
2
1.5
1
0.5
0
−0.5
−1
−1.5

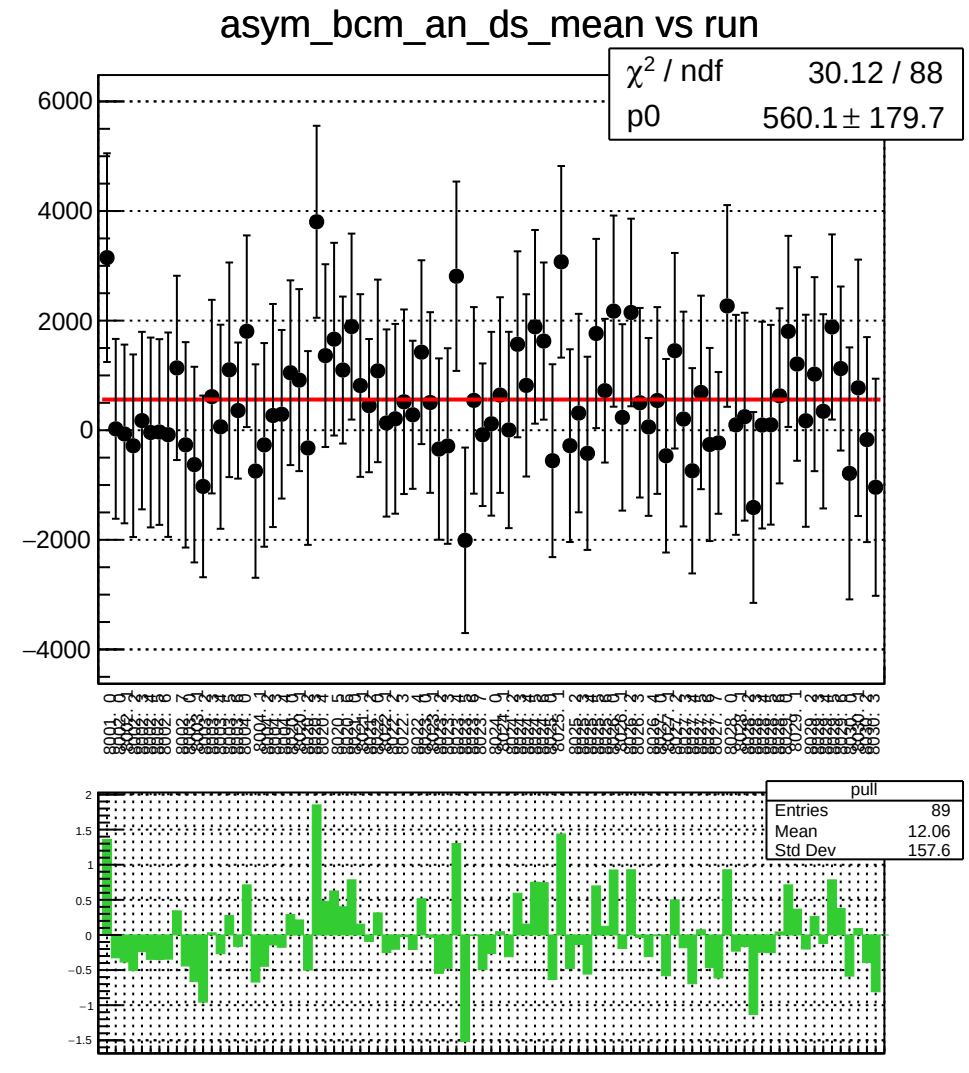

pull1D
Entries 89
Mean −0.001831
Std Dev 0.5533
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

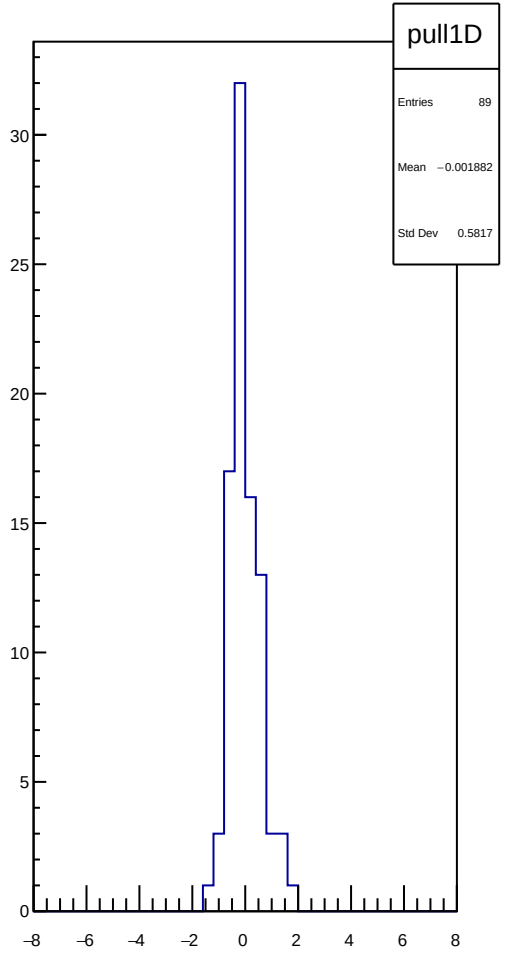

asym_bcm_target_rms vs run
χ^2 / ndf 5931 / 88
p0 168.3 ± 0.128
230
220
210
200
190
180
170
160
150

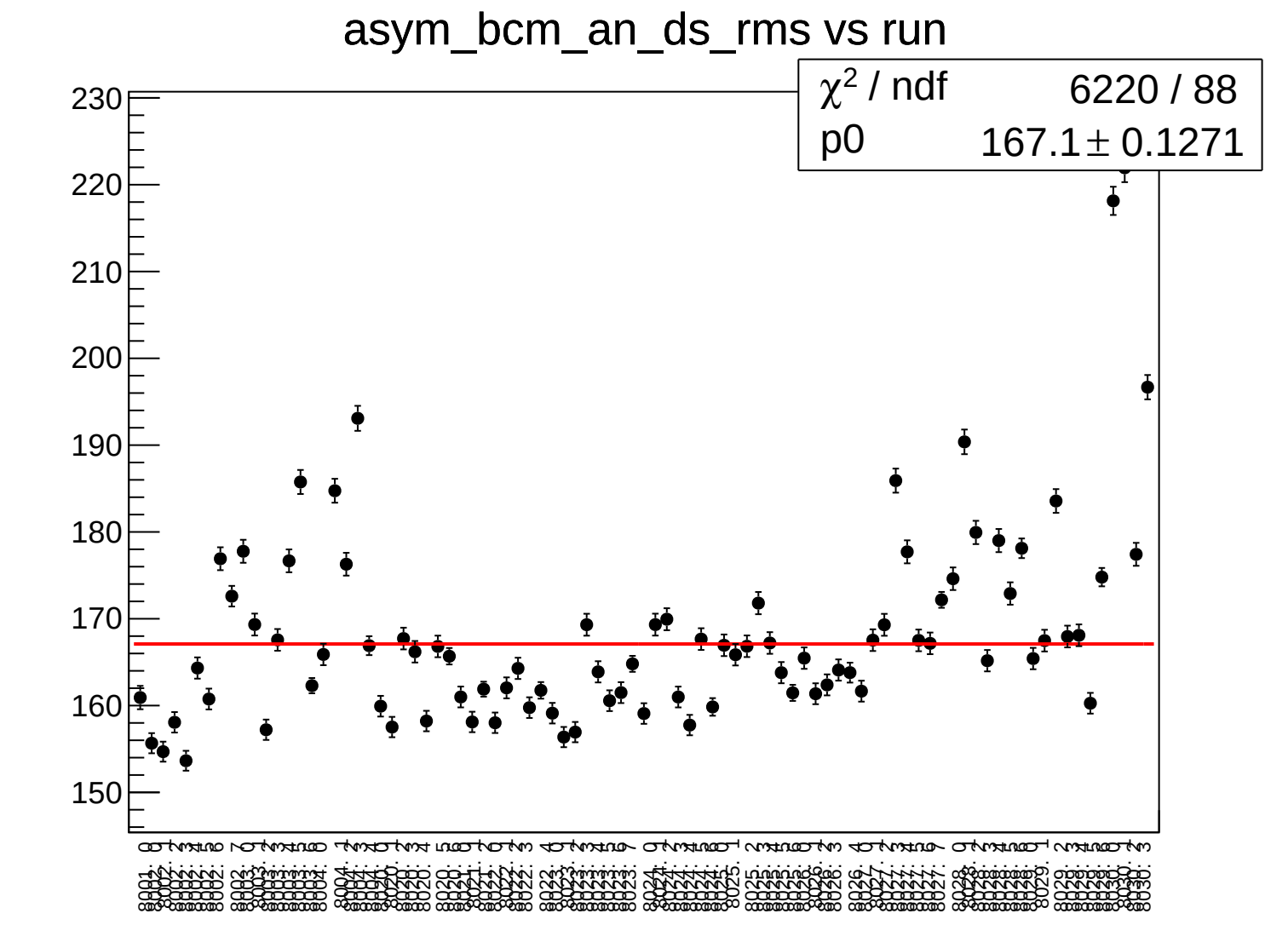

asym_bcm_an_diff_mean vs run
×10^3
χ² / ndf 88.01 / 88
p0 35.29 ± 31.35
100
50
0
−50
−100
pull
Entries 89
Mean −38.98
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

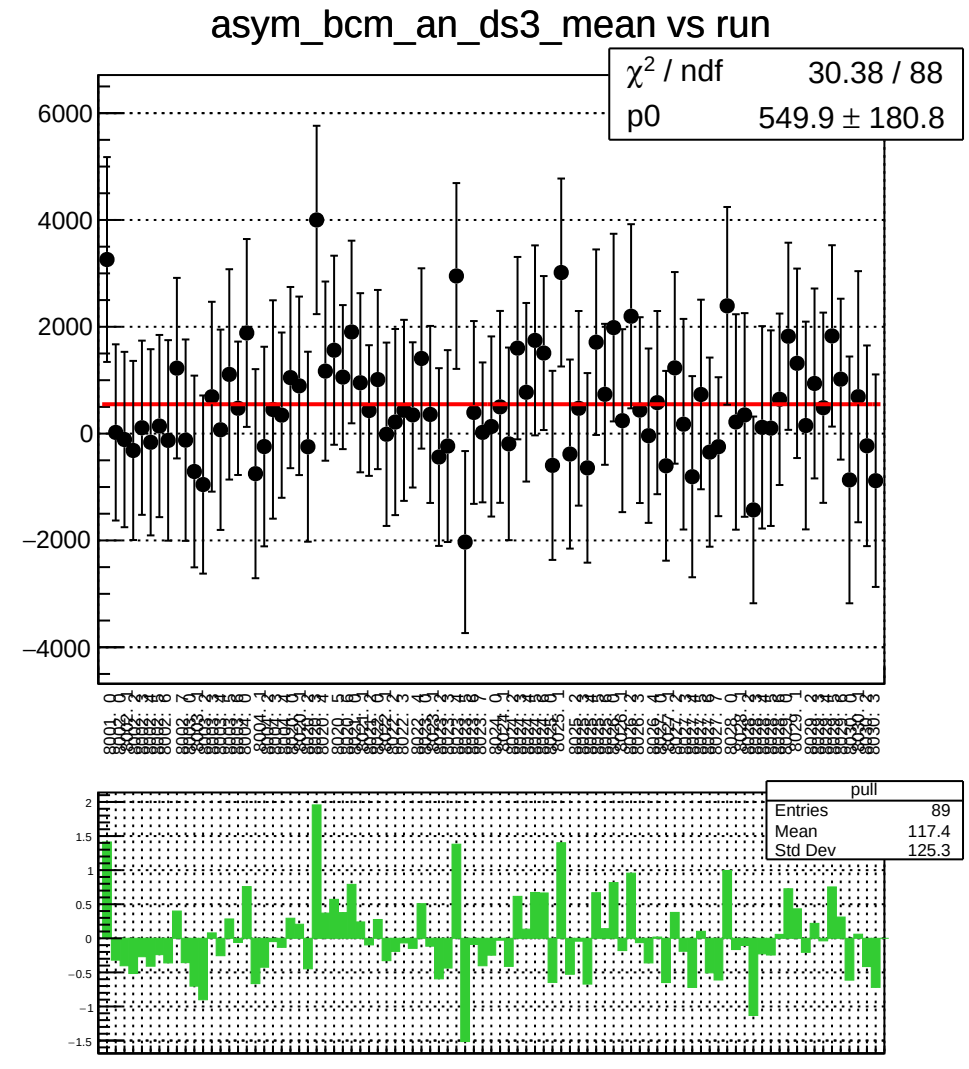

pull1D
Entries 89
Mean 0.01645
Std Dev 0.9943
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

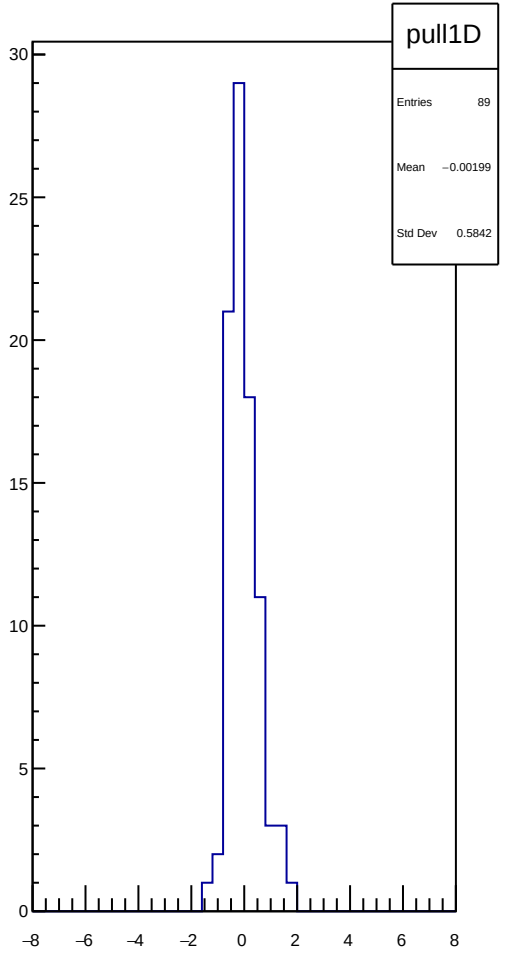

asym_bcm_an_diff_rms vs run
×10^3
800
700
600
500
400
300
200
100
χ² / ndf 1.598e+05 / 84
p0 2.717e+04 ± 22.17

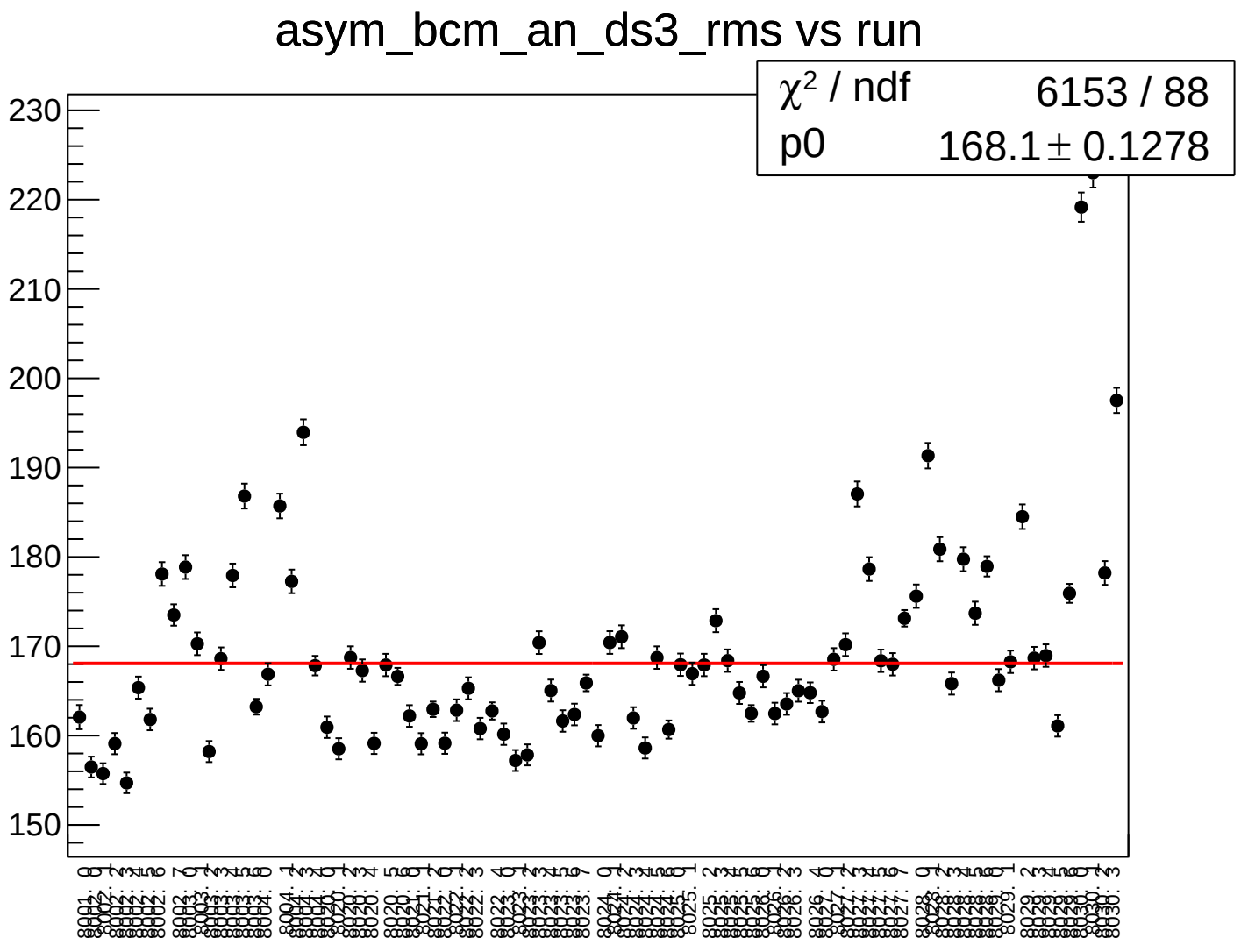

asym_bcm_an_ds_mean vs run
χ² / ndf 30.12 / 88
p0 560.1 ± 179.7
6000
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 12.06
Std Dev 157.6
2
1.5
1
0.5
0
−0.5
−1
−1.5

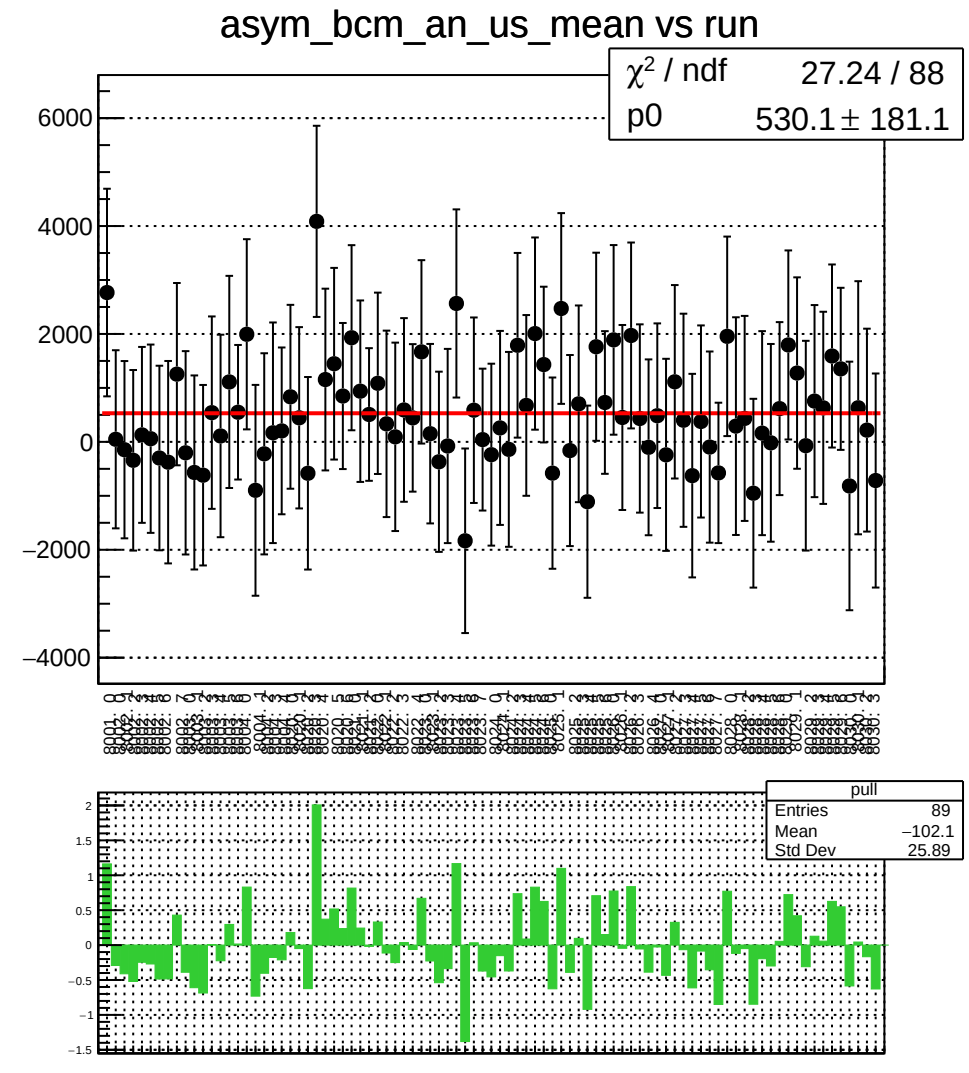

pull1D
Entries 89
Mean −0.001882
Std Dev 0.5817
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

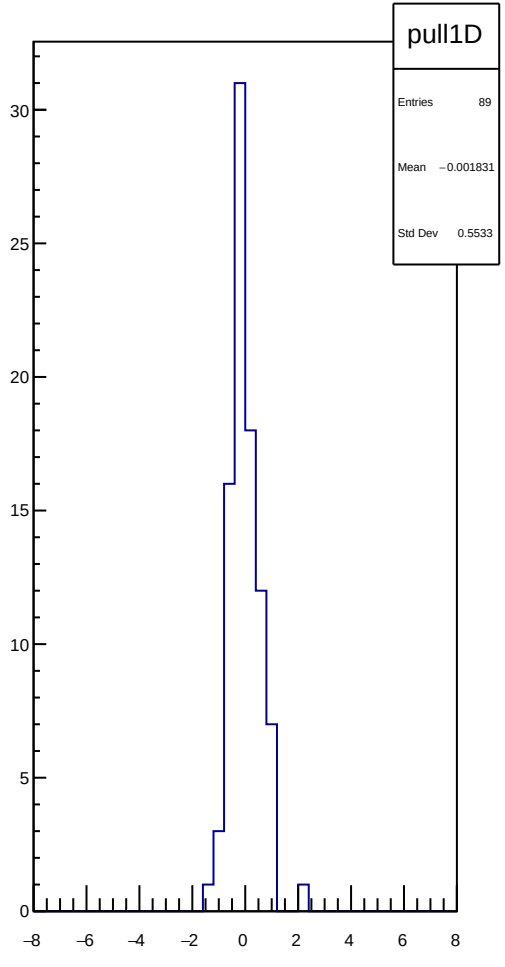

asym_bcm_an_ds_rms vs run
χ^2 / ndf 6220 / 88
p0 167.1 ± 0.1271
230
220
210
200
190
180
170
160
150

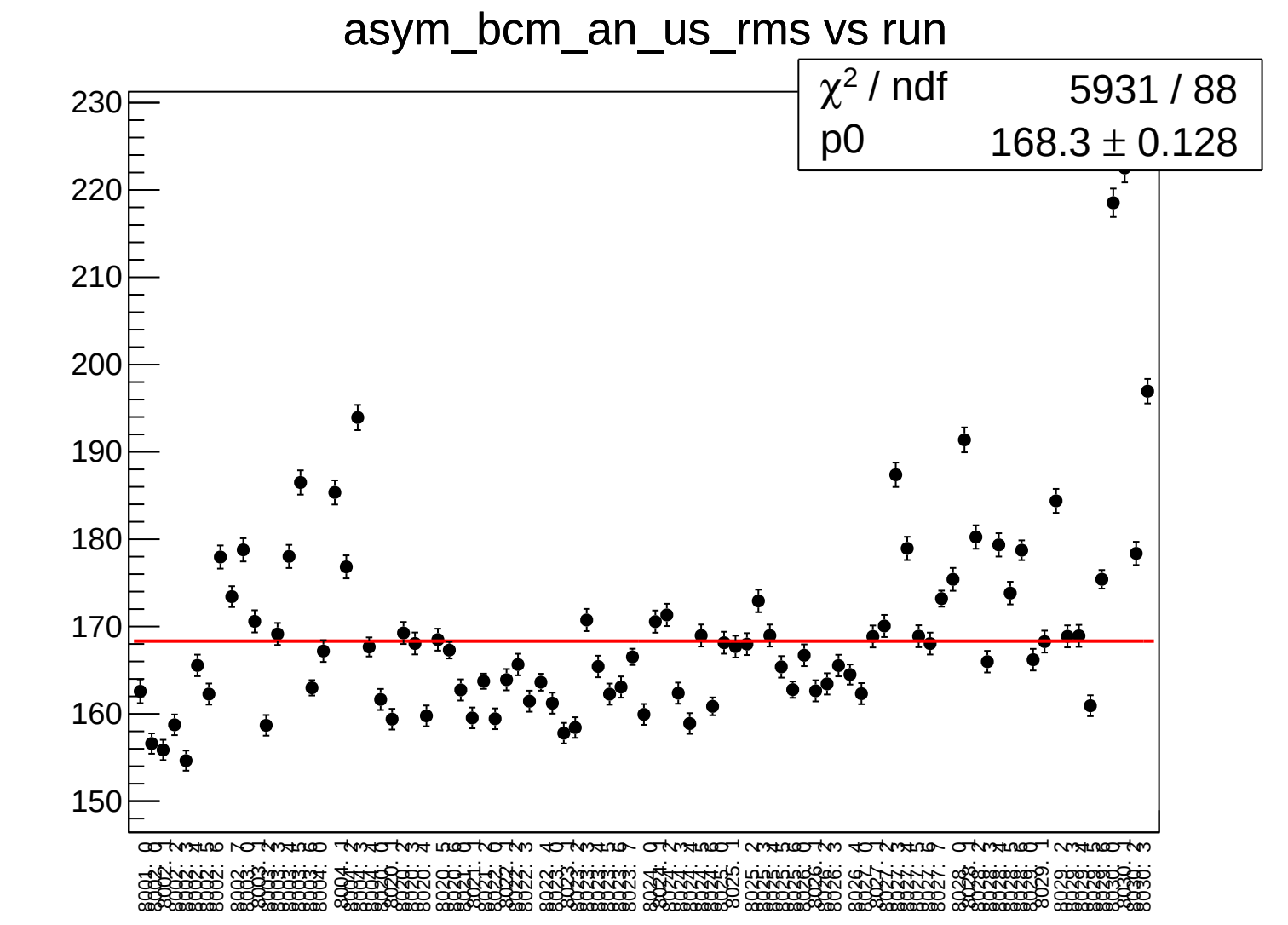

asym_bcm_an_ds3_mean vs run
χ² / ndf 30.38 / 88
p0 549.9 ± 180.8
6000
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 117.4
Std Dev 125.3
2
1.5
1
0.5
0
−0.5
−1
−1.5

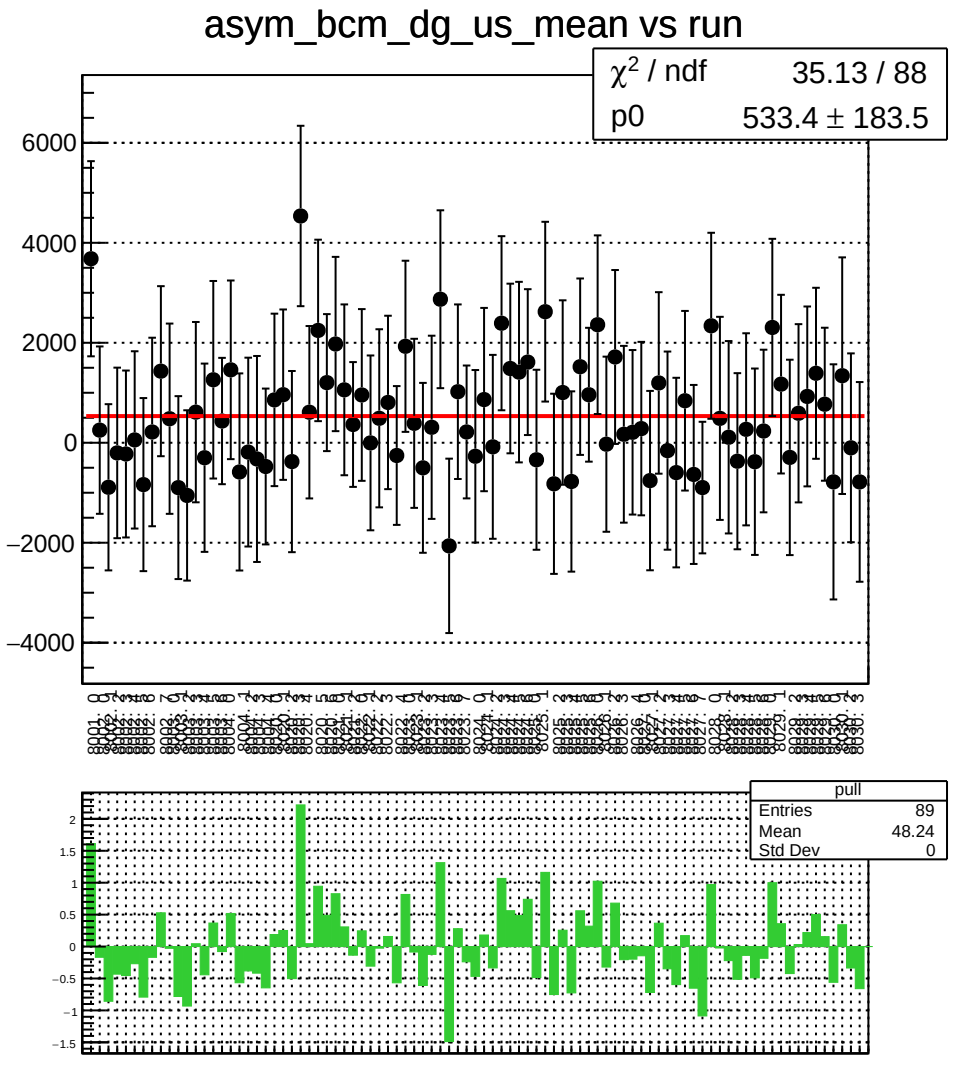

pull1D
Entries 89
Mean −0.00199
Std Dev 0.5842
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

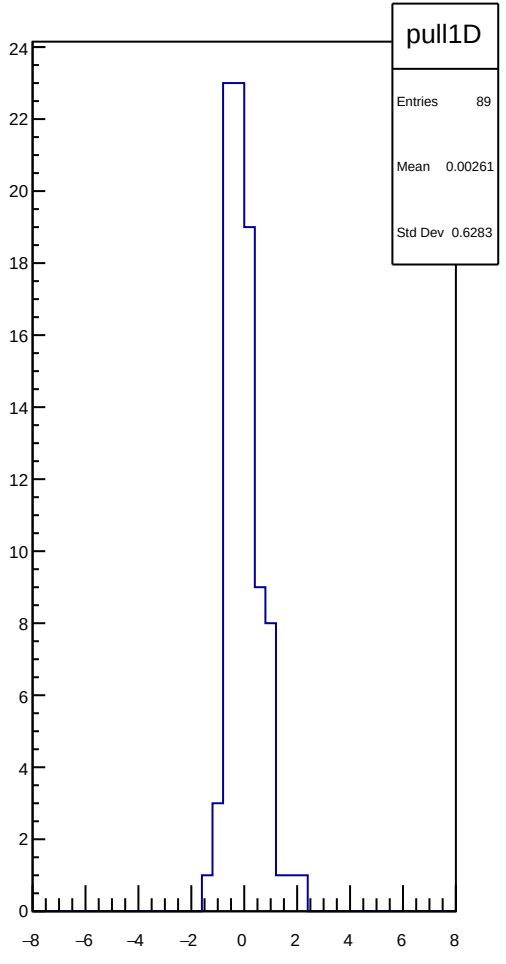

asym_bcm_an_ds3_rms vs run
χ² / ndf 6153 / 88
p0 168.1 ± 0.1278
230
220
210
200
190
180
170
160
150

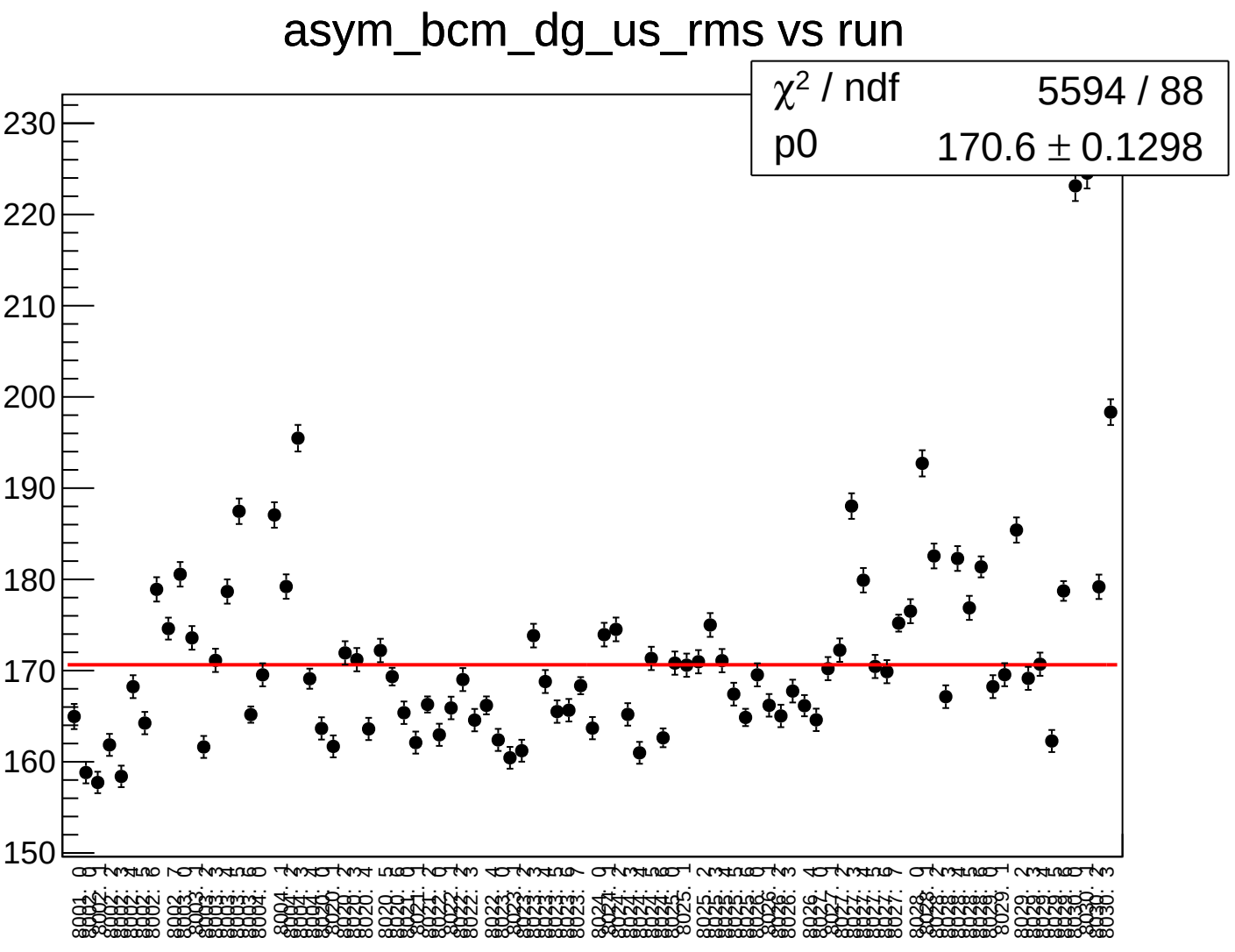

asym_bcm_an_us_mean vs run
χ² / ndf 27.24 / 88
p0 530.1 ± 181.1
6000
4000
2000
0
−2000
−4000
pull
Entries 89
Mean −102.1
Std Dev 25.89
2
1.5
1
0.5
0
−0.5
−1
−1.5

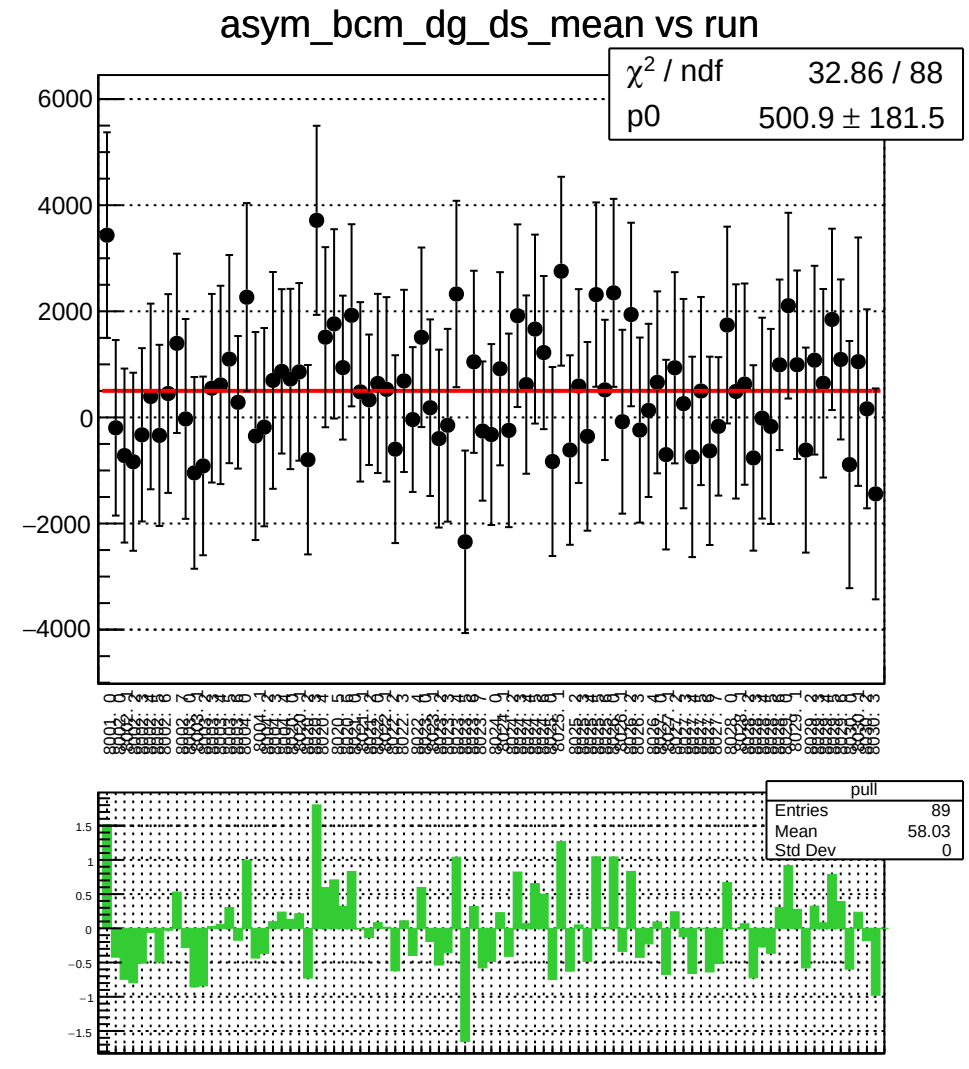

pull1D
Entries 89
Mean −0.001831
Std Dev 0.5533
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

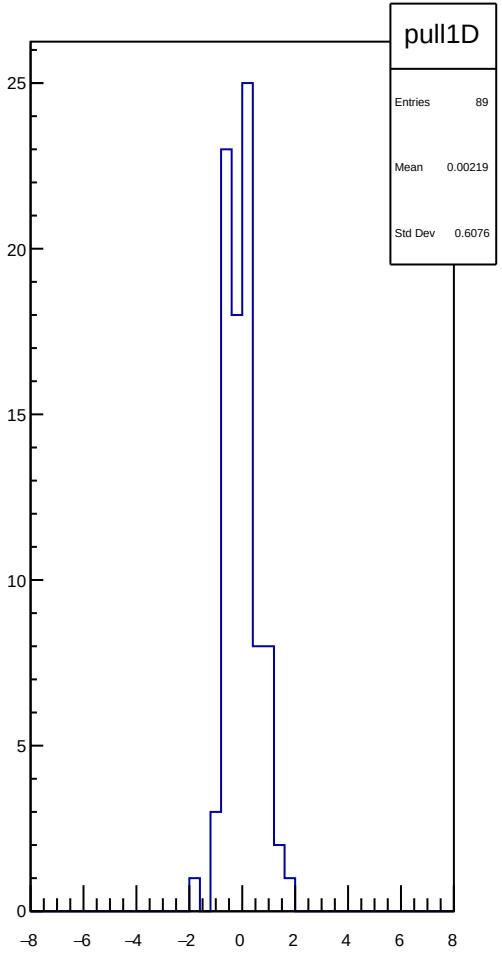

asym_bcm_an_us_rms vs run
χ^2 / ndf 5931 / 88
p0 168.3 ± 0.128
230
220
210
200
190
180
170
160
150

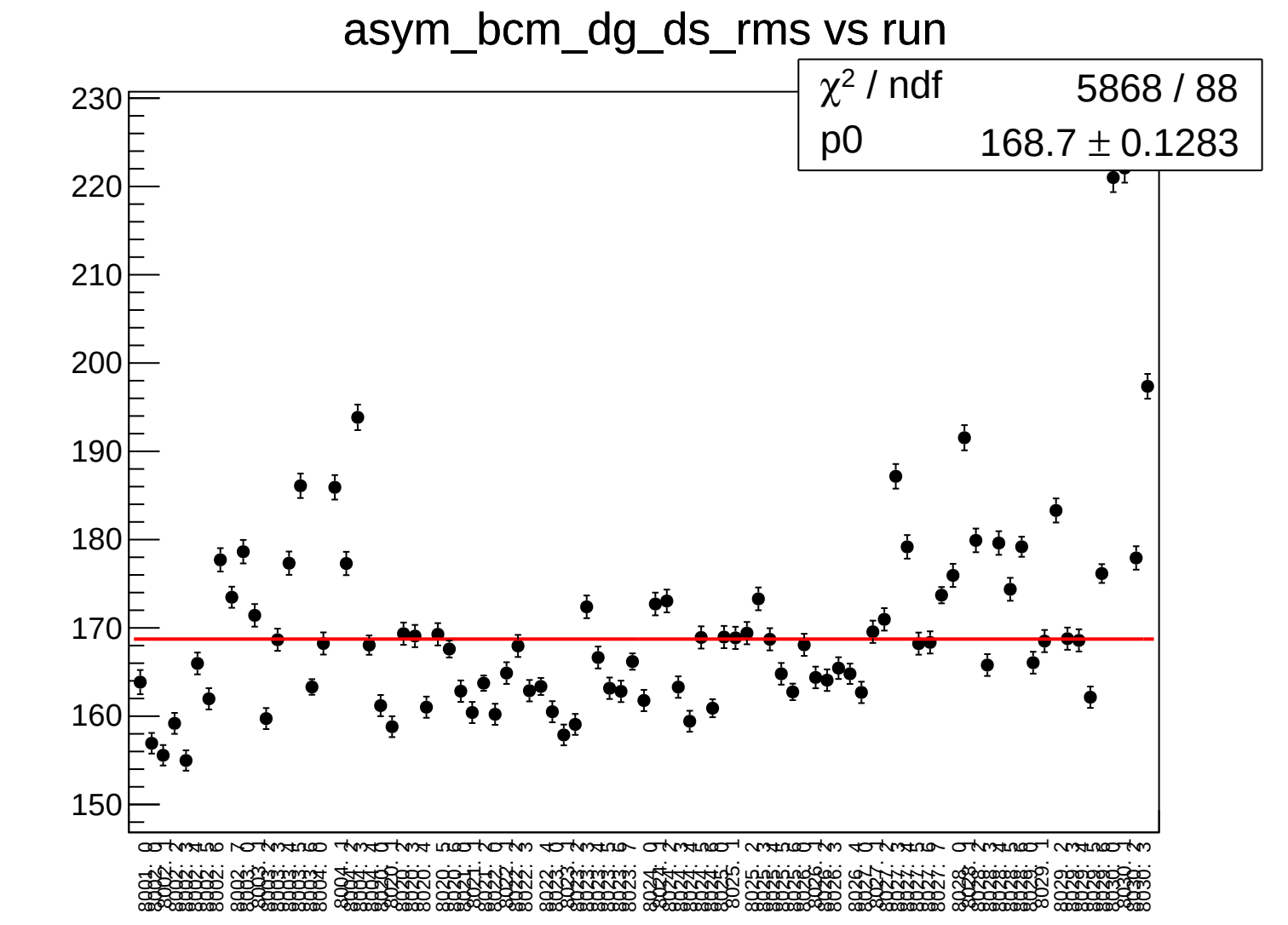

asym_bcm_dg_us_mean vs run
χ² / ndf 35.13 / 88
p0 533.4 ± 183.5
6000
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 48.24
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

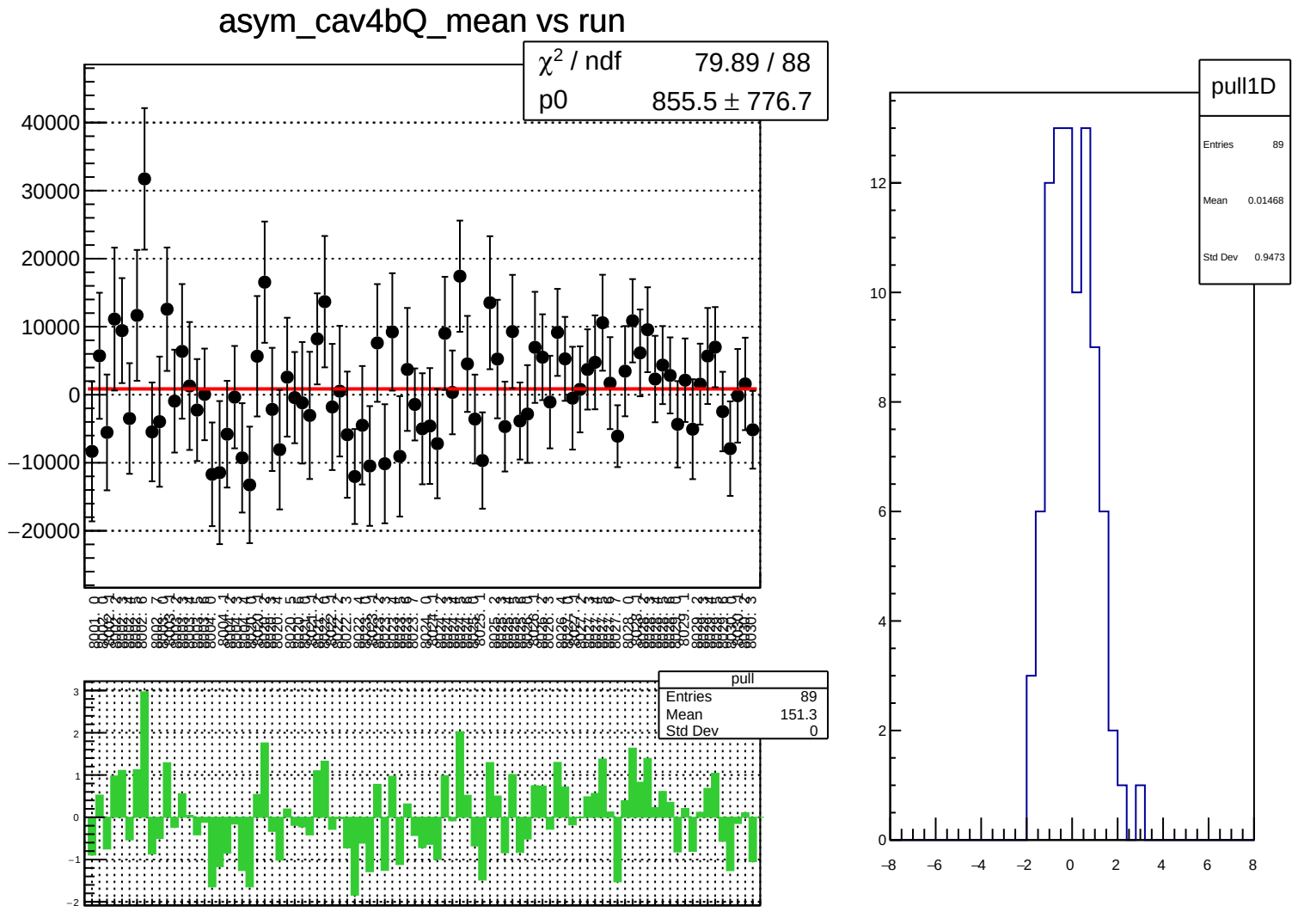

pull1D
Entries 89
Mean 0.00261
Std Dev 0.6283
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

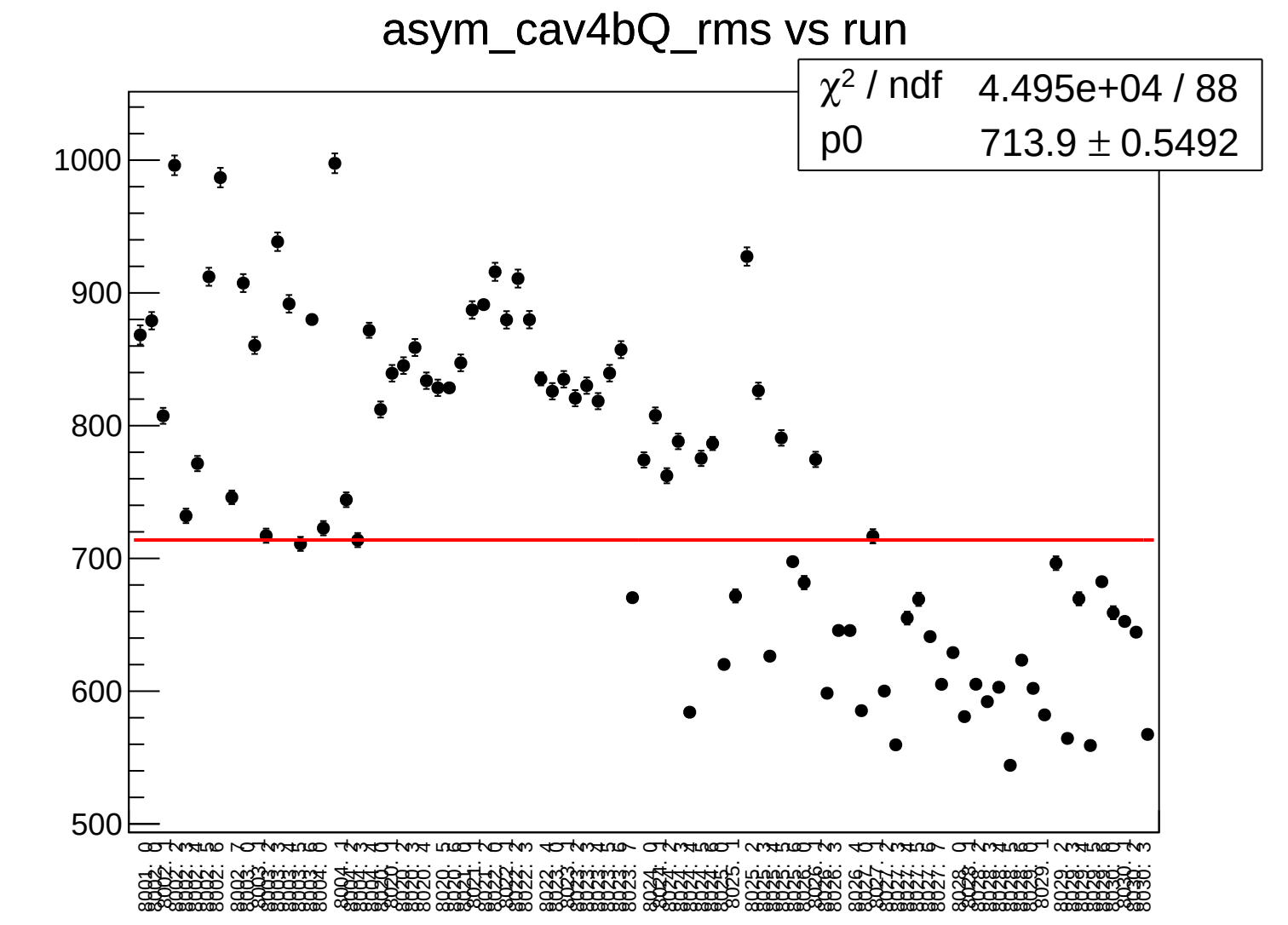

asym_bcm_dg_us_rms vs run
χ² / ndf 5594 / 88
p0 170.6 ± 0.1298
230
220
210
200
190
180
170
160
150

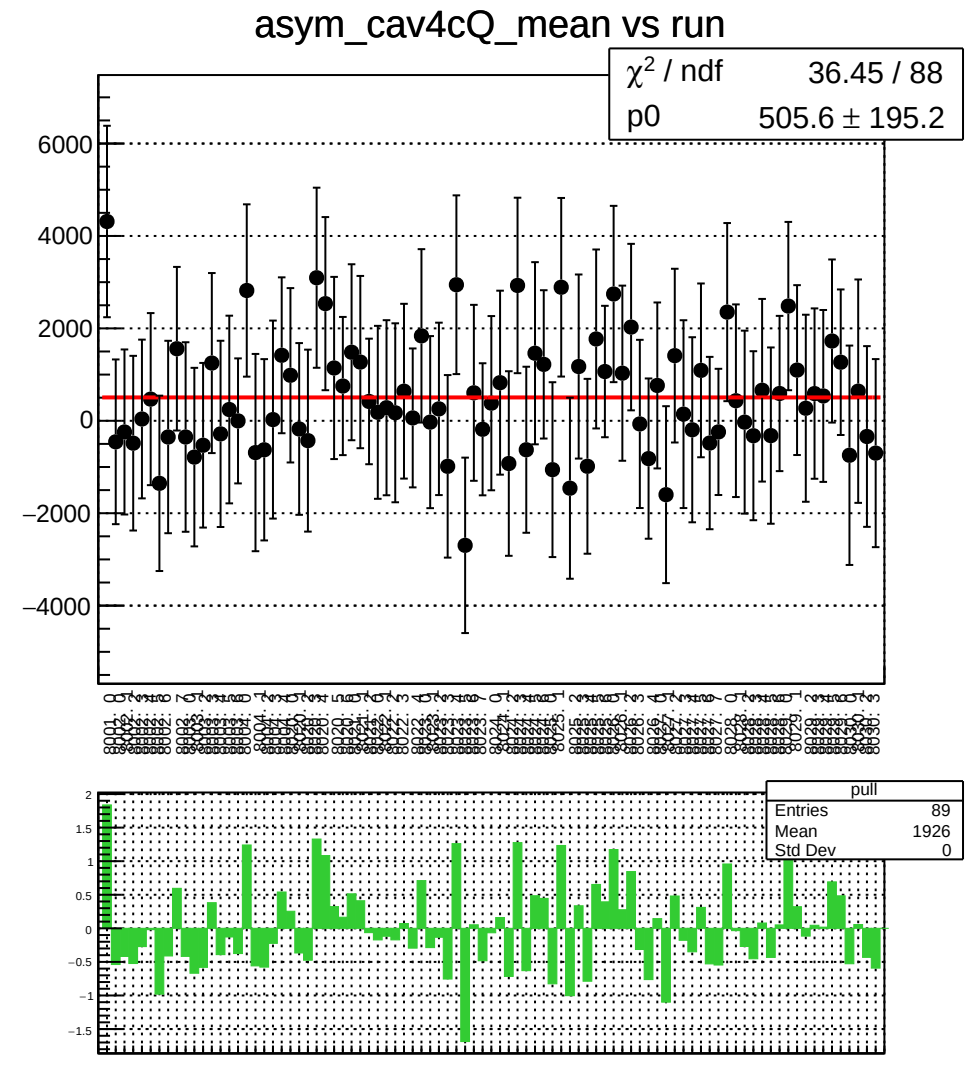

asym_bcm_dg_ds_mean vs run
χ² / ndf 32.86 / 88
p0 500.9 ± 181.5
6000
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 58.03
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

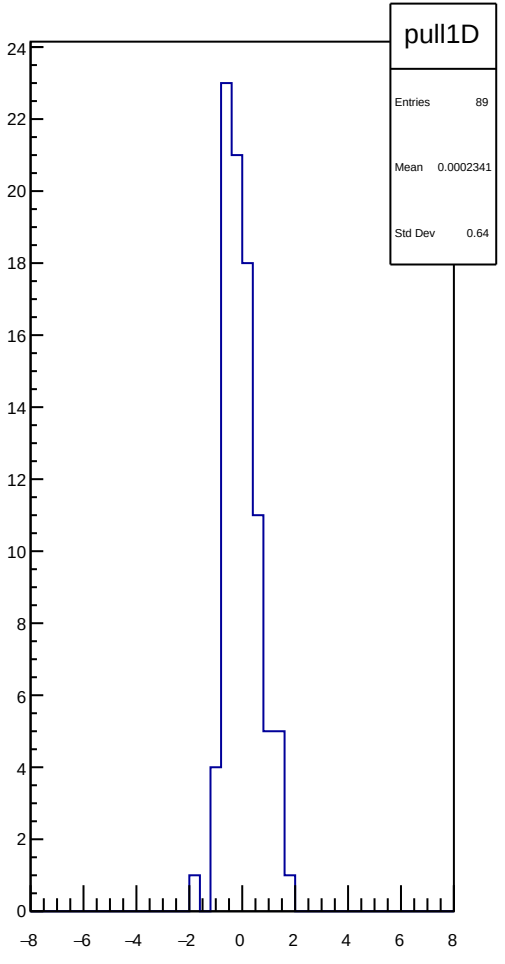

pull1D
Entries 89
Mean 0.00219
Std Dev 0.6076
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

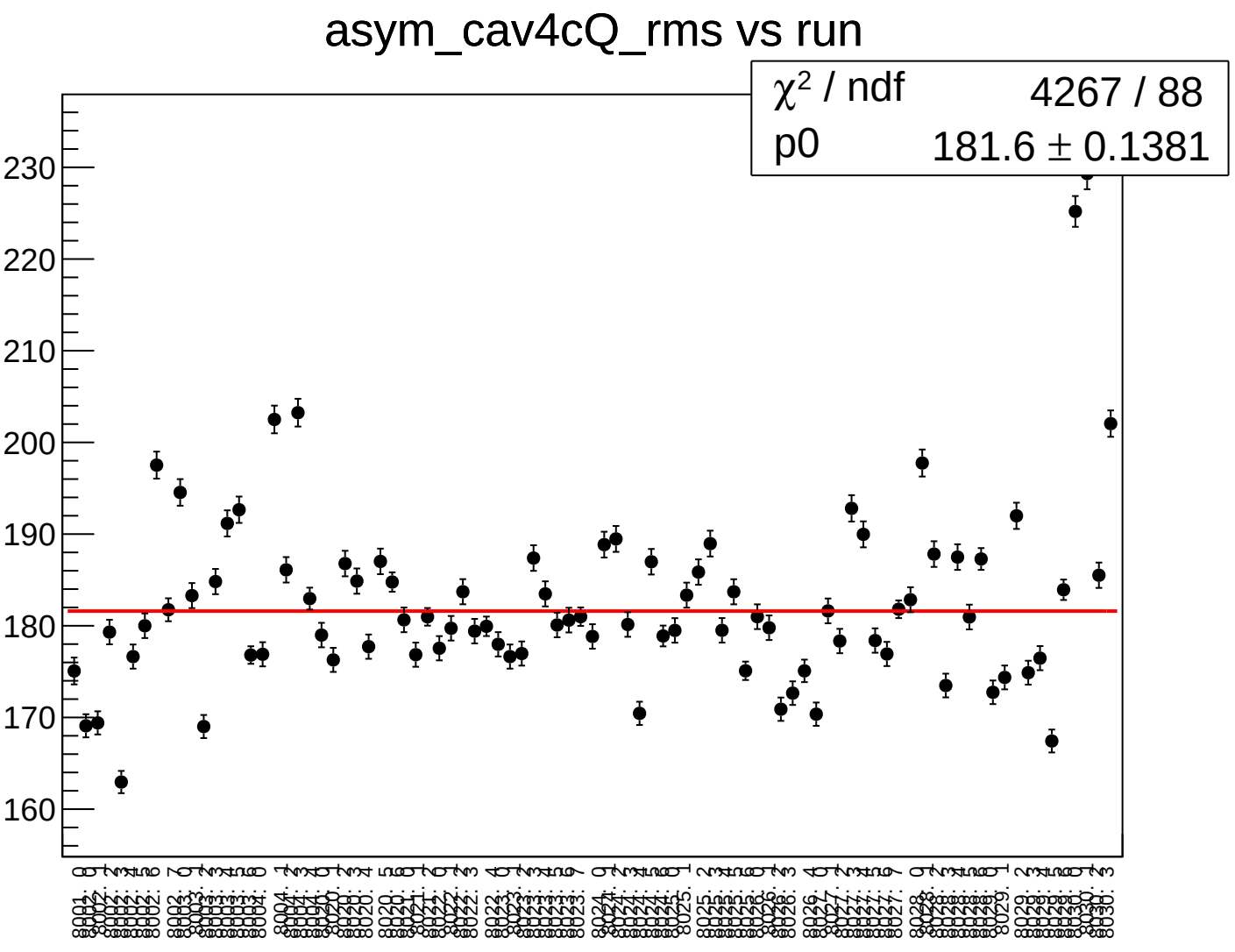

asym_bcm_dg_ds_rms vs run
χ^2 / ndf 5868 / 88
p0 168.7 ± 0.1283
230
220
210
200
190
180
170
160
150

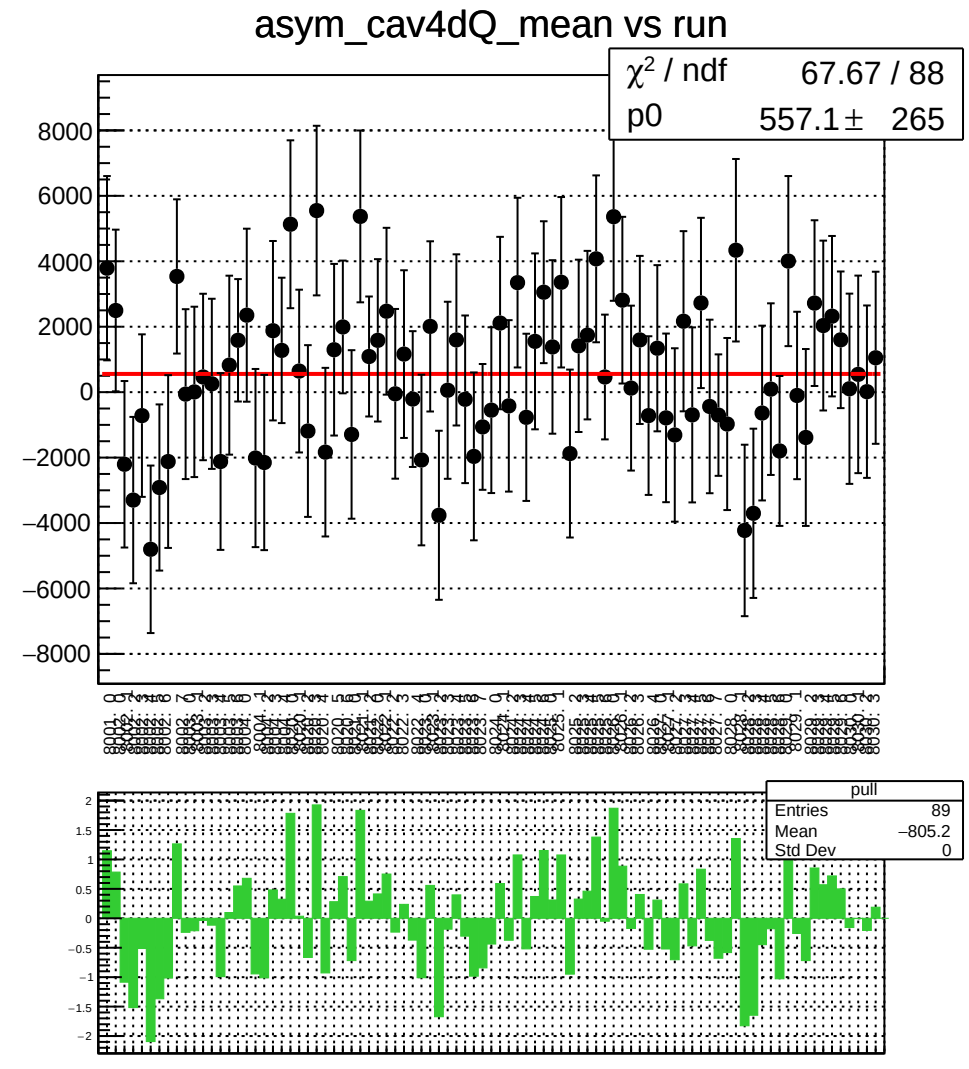

asym_cav4bQ_mean vs run
χ² / ndf 79.89 / 88
p0 855.5 ± 776.7
40000
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 151.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.01468
Std Dev 0.9473
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

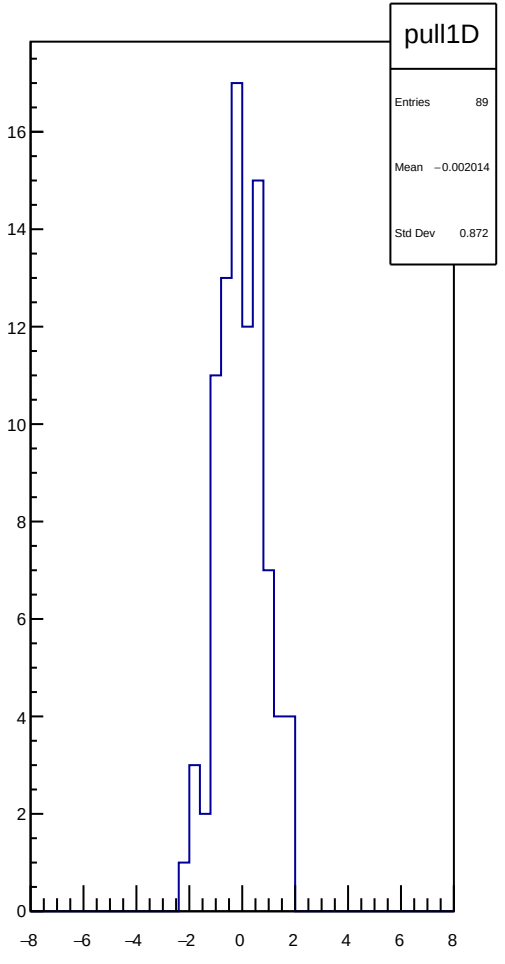

asym_cav4bQ_rms vs run
χ² / ndf 4.495e+04 / 88
p0 713.9 ± 0.5492
1000
900
800
700
600
500

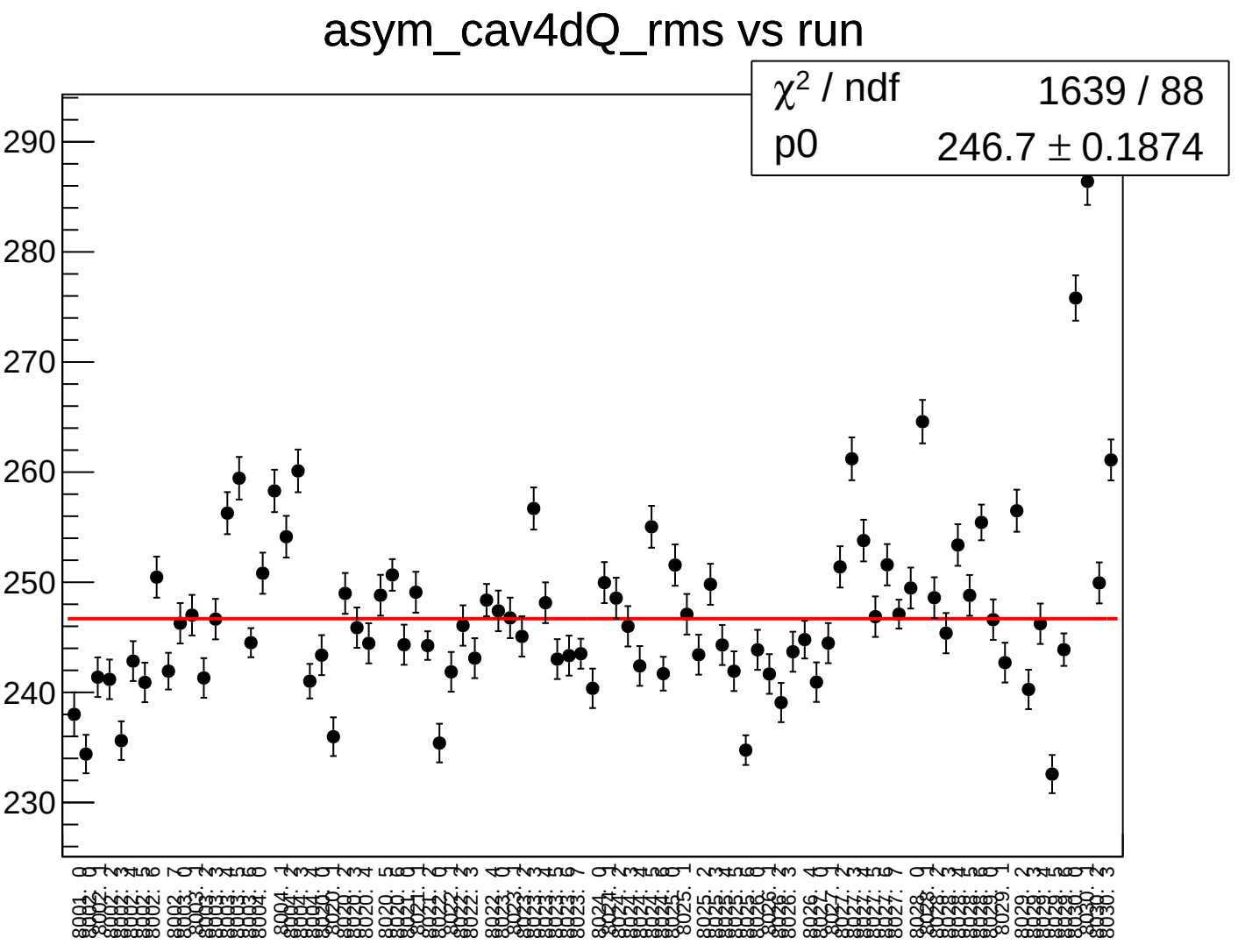

asym_cav4cQ_mean vs run
χ² / ndf 36.45 / 88
p0 505.6 ± 195.2
6000
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 1926
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

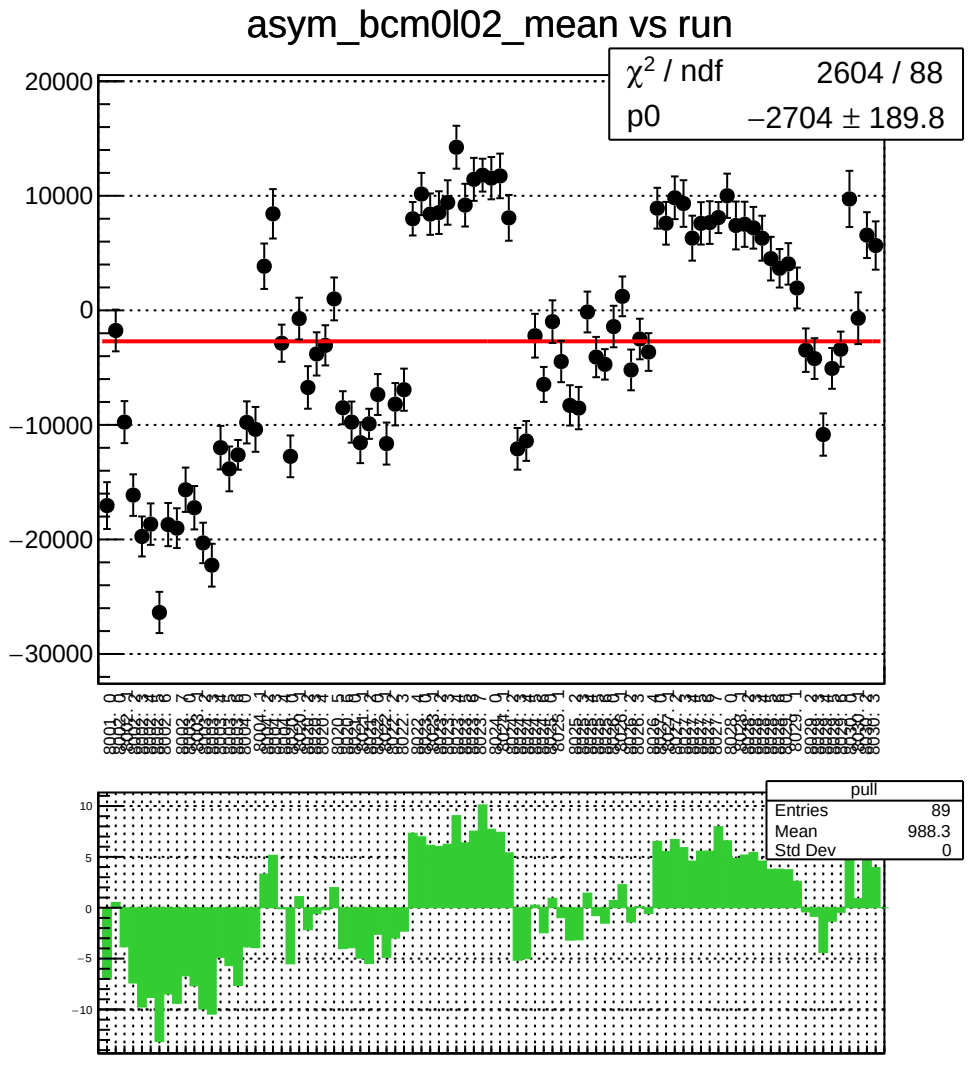

pull1D
Entries 89
Mean 0.0002341
Std Dev 0.64
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

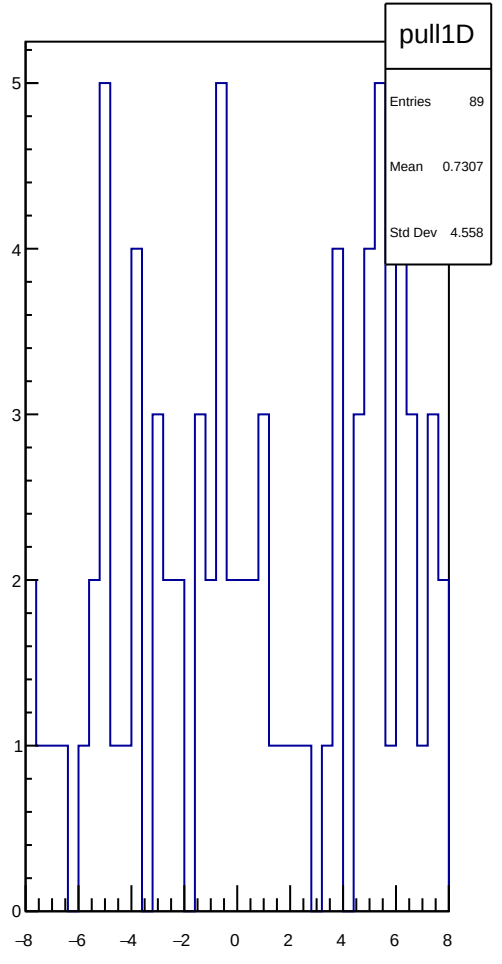

asym_cav4cQ_rms vs run
χ² / ndf 4267 / 88
p0 181.6 ± 0.1381
230
220
210
200
190
180
170
160

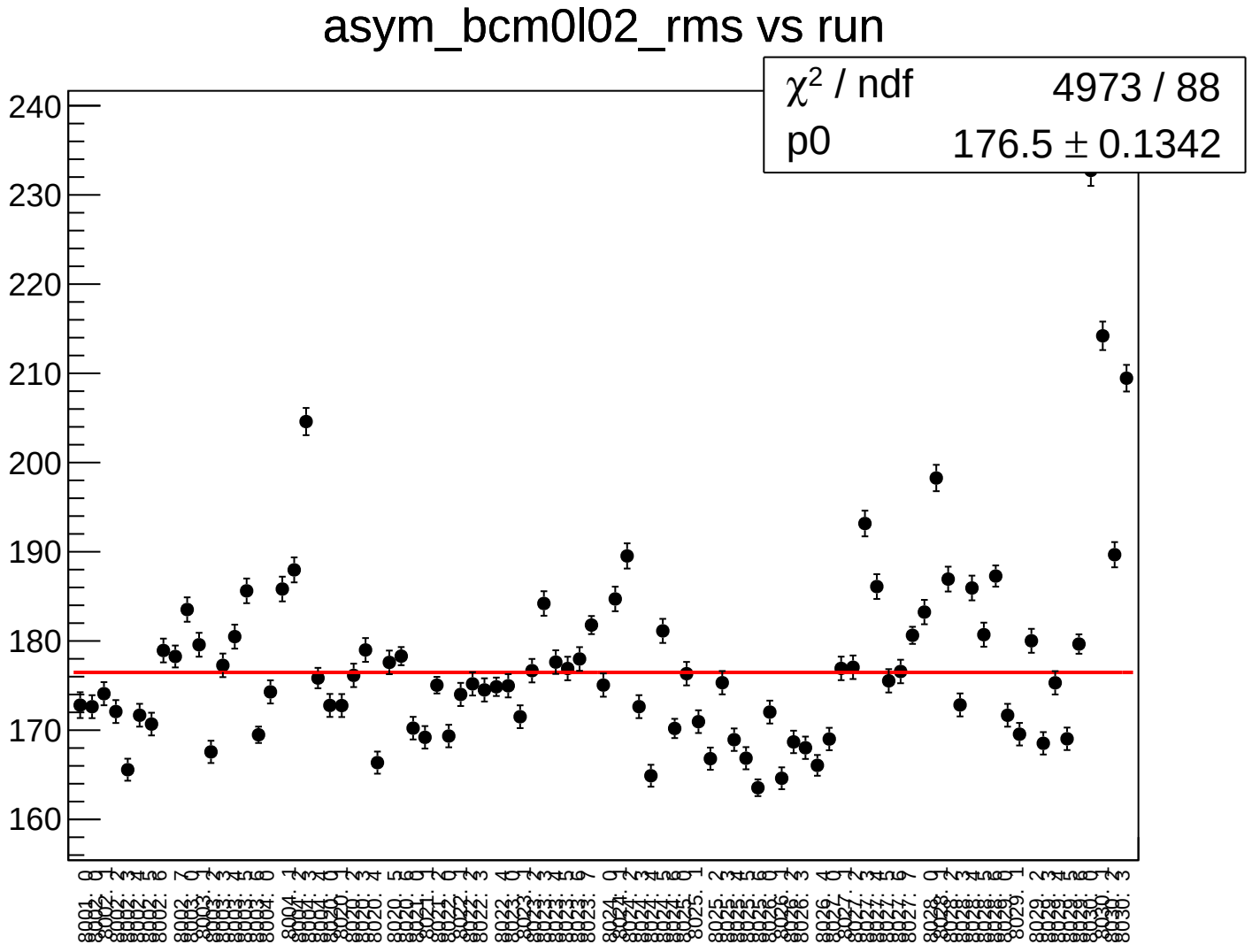

asym_cav4dQ_mean vs run
χ² / ndf 67.67 / 88
p0 557.1 ± 265
pull
Entries 89
Mean −805.2
Std Dev 0

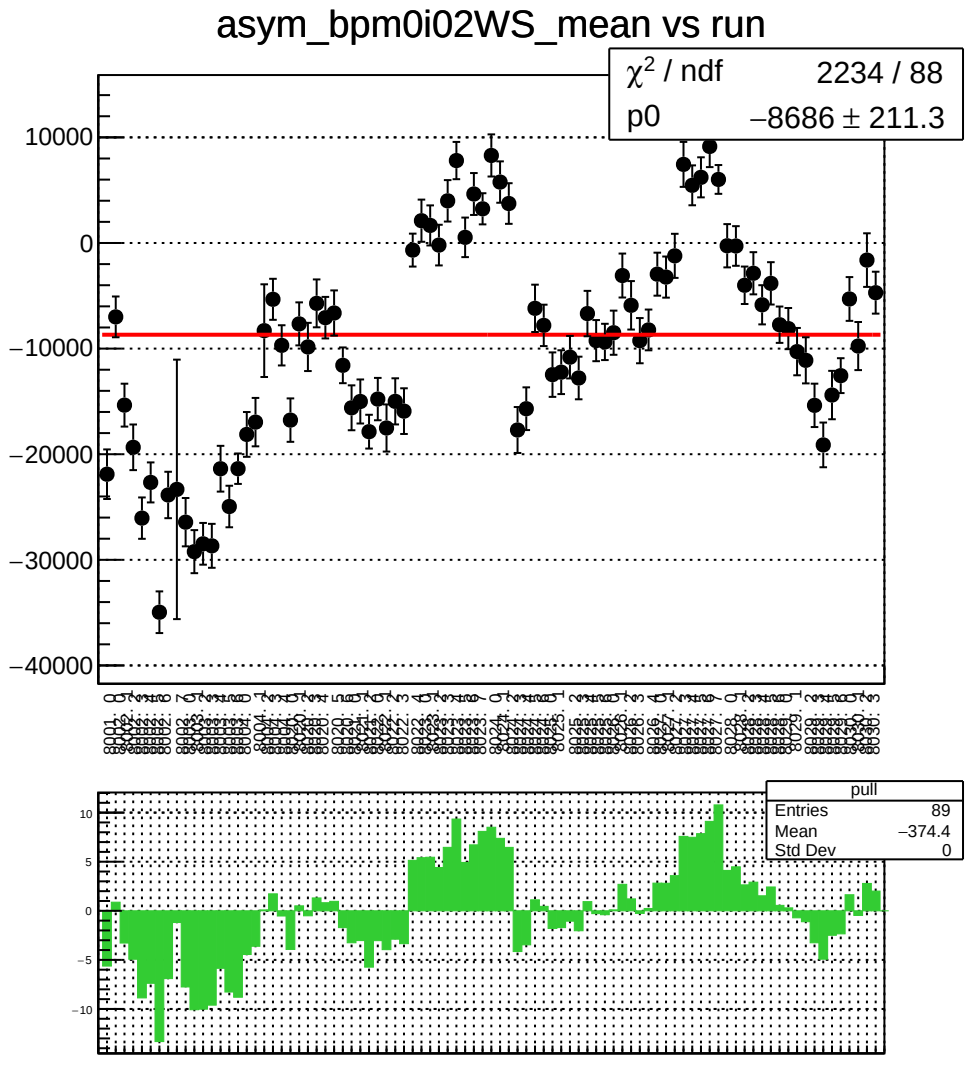

pull1D
Entries 89
Mean −0.002014
Std Dev 0.872

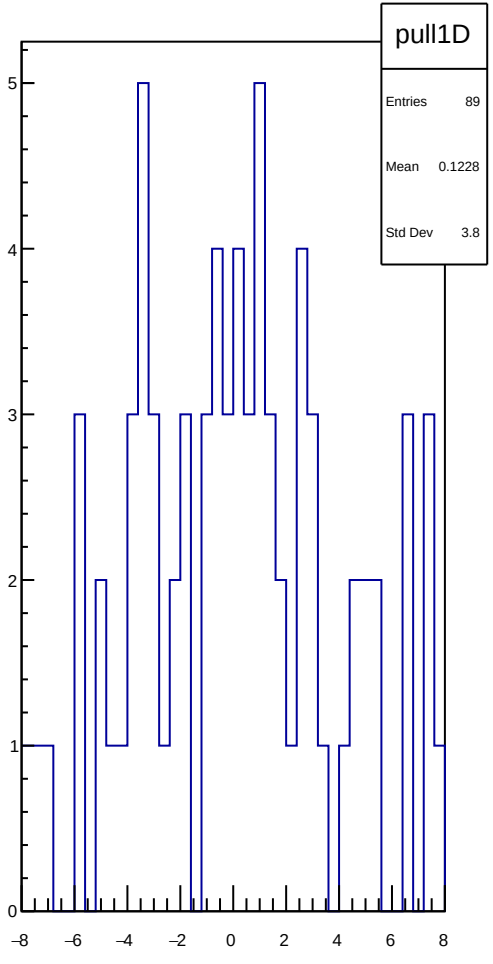

asym_cav4dQ_rms vs run
χ² / ndf 1639 / 88
p0 246.7 ± 0.1874
290
280
270
260
250
240
230

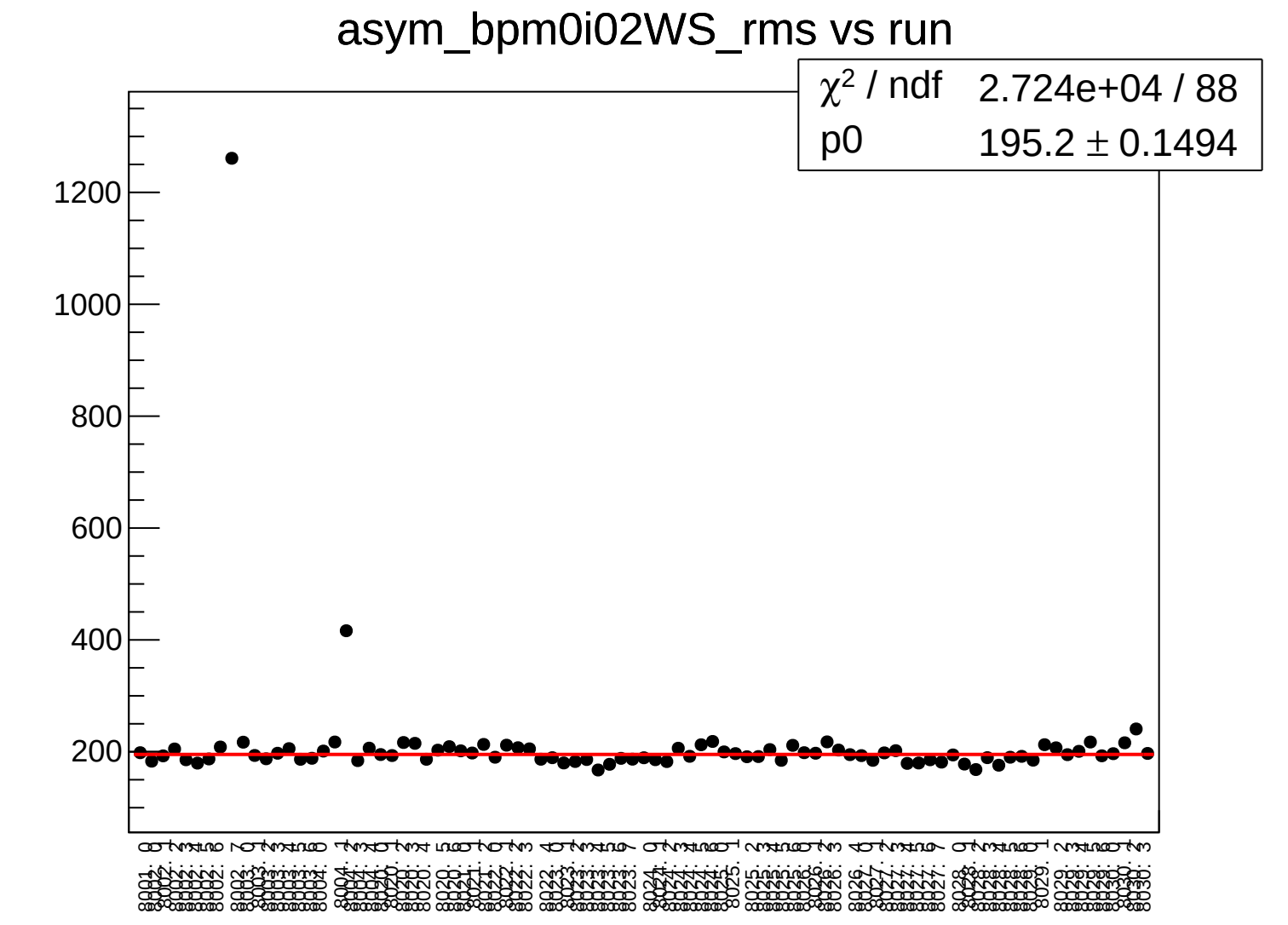

asym_bcm0l02_mean vs run
χ² / ndf 2604 / 88
p0 −2704 ± 189.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 988.3
Std Dev 0
10
5
0
−5
−10

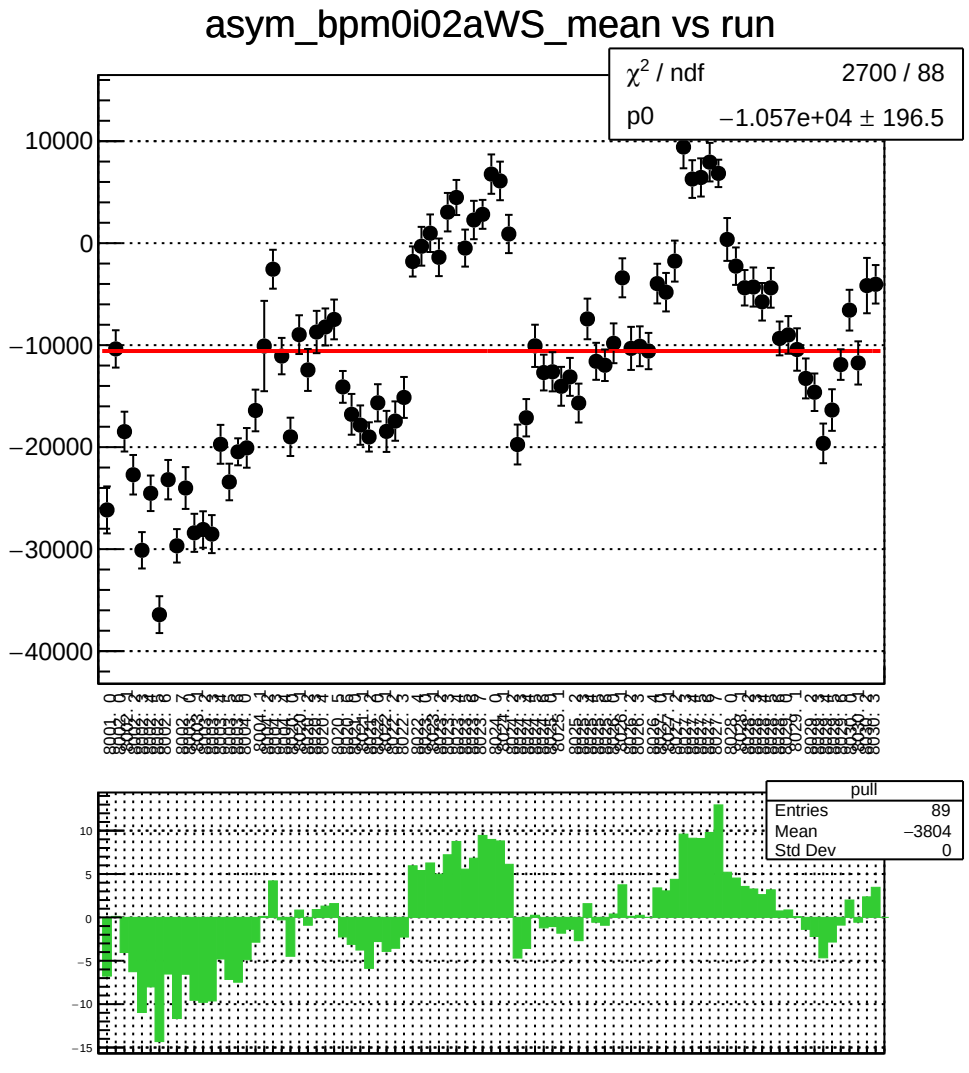

pull1D
Entries 89
Mean 0.7307
Std Dev 4.558
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

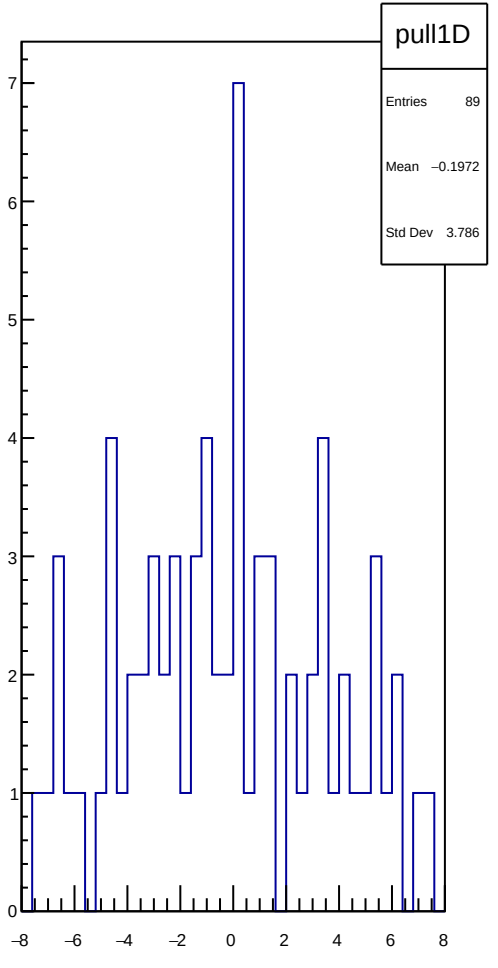

asym_bcm0l02_rms vs run
χ² / ndf 4973 / 88
p0 176.5 ± 0.1342
240
230
220
210
200
190
180
170
160

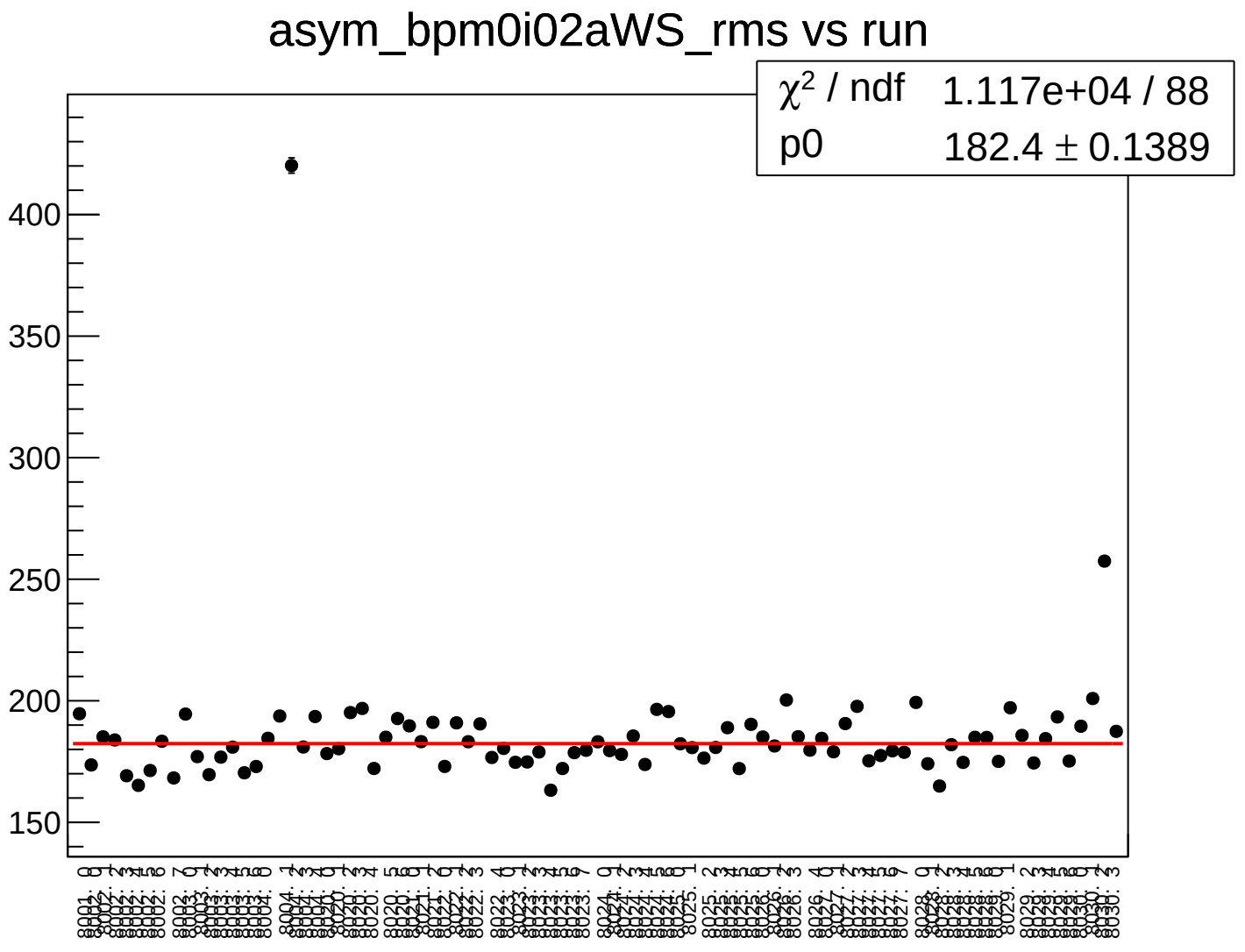

asym_bpm0i02WS_mean vs run
χ² / ndf 2234 / 88
p0 −8686 ± 211.3
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean −374.4
Std Dev 0
10
5
0
−5
−10

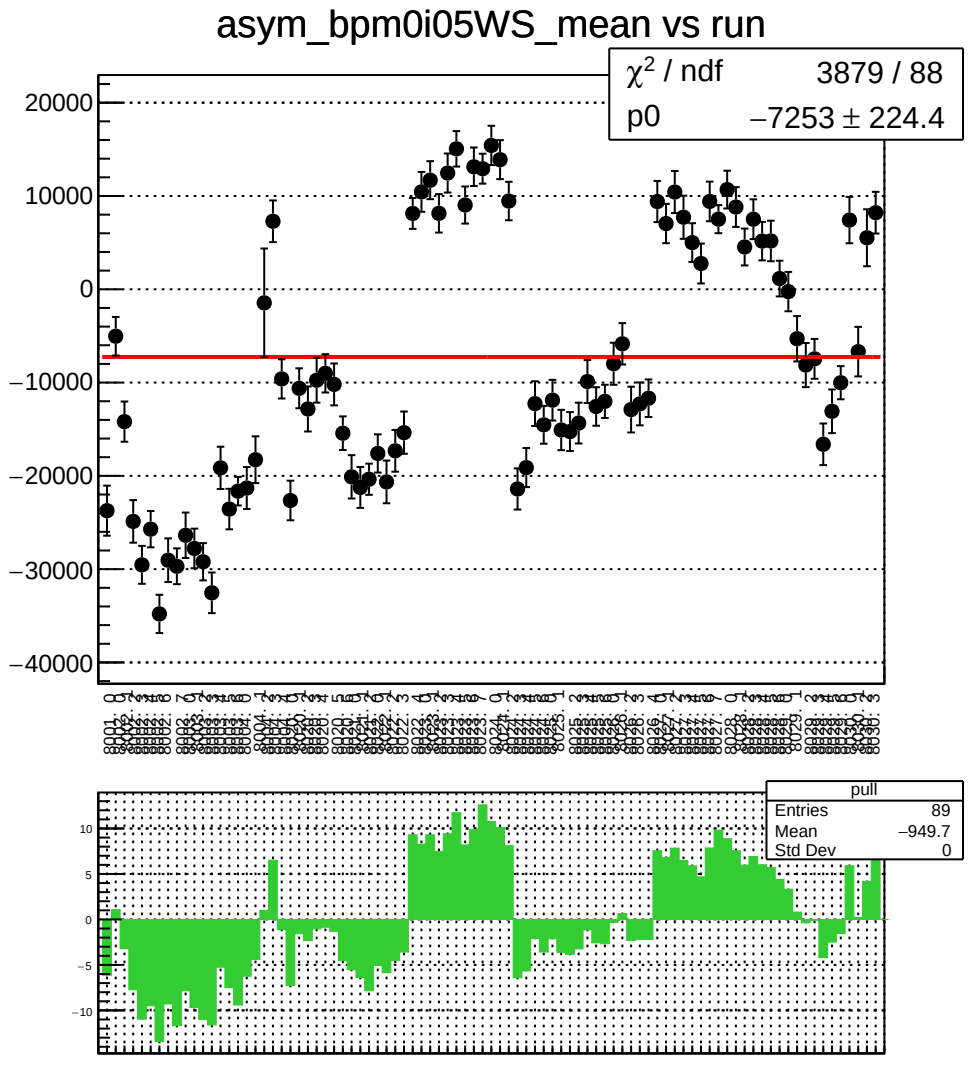

pull1D
Entries 89
Mean 0.1228
Std Dev 3.8
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

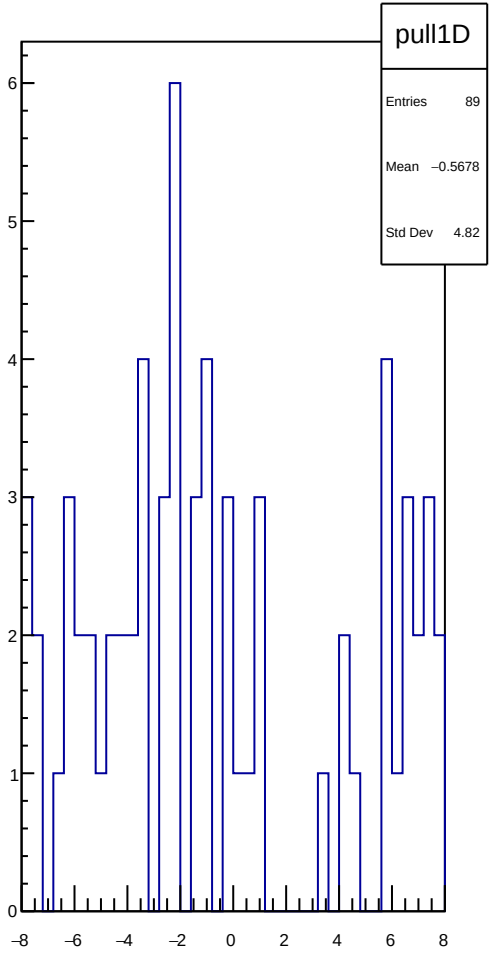

asym_bpm0i02WS_rms vs run
χ² / ndf 2.724e+04 / 88
p0 195.2 ± 0.1494
1200
1000
800
600
400
200

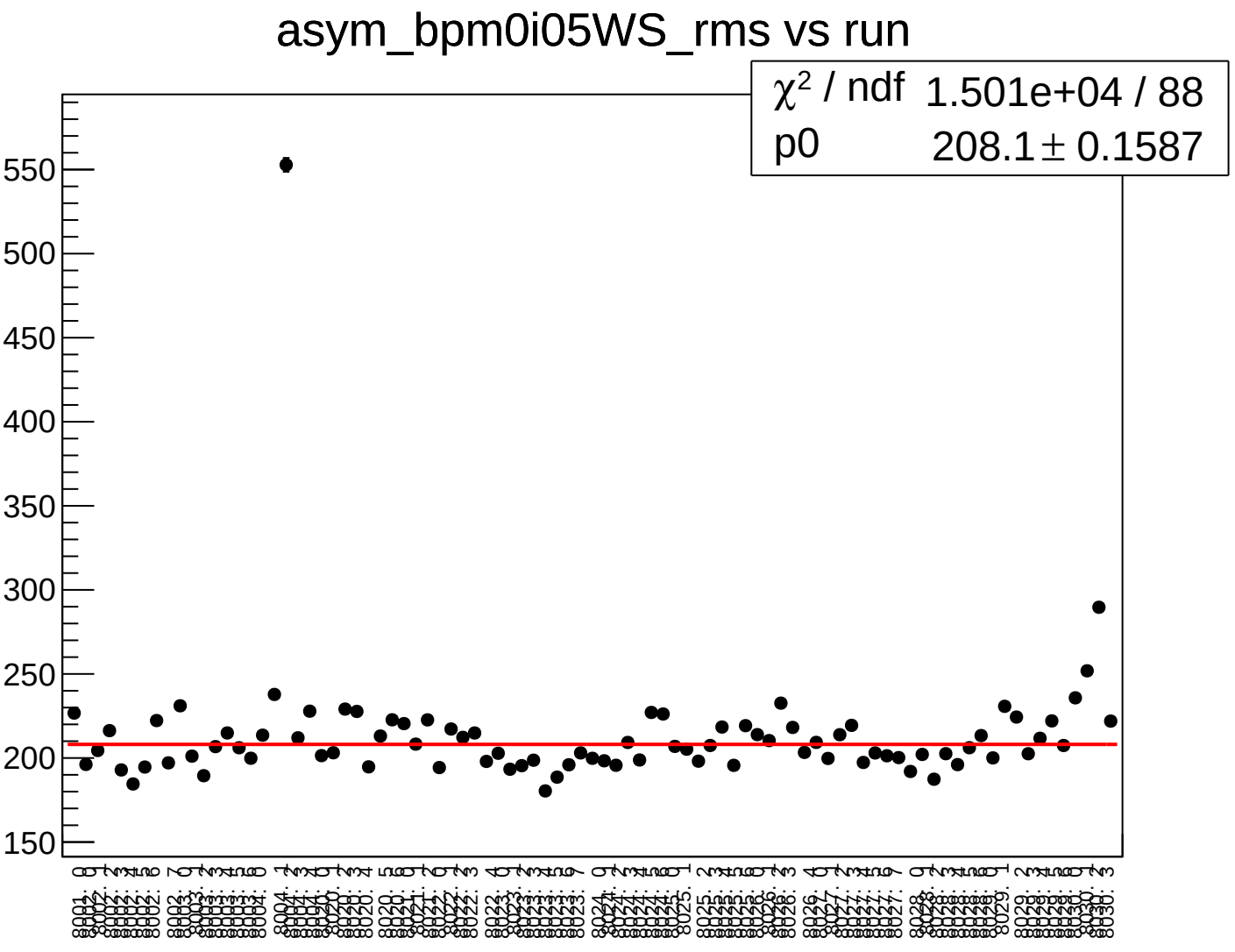

asym_bpm0i02aWS_mean vs run
χ² / ndf 2700 / 88
p0 −1.057e+04 ± 196.5
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean −3804
Std Dev 0
10
5
0
−5
−10
−15

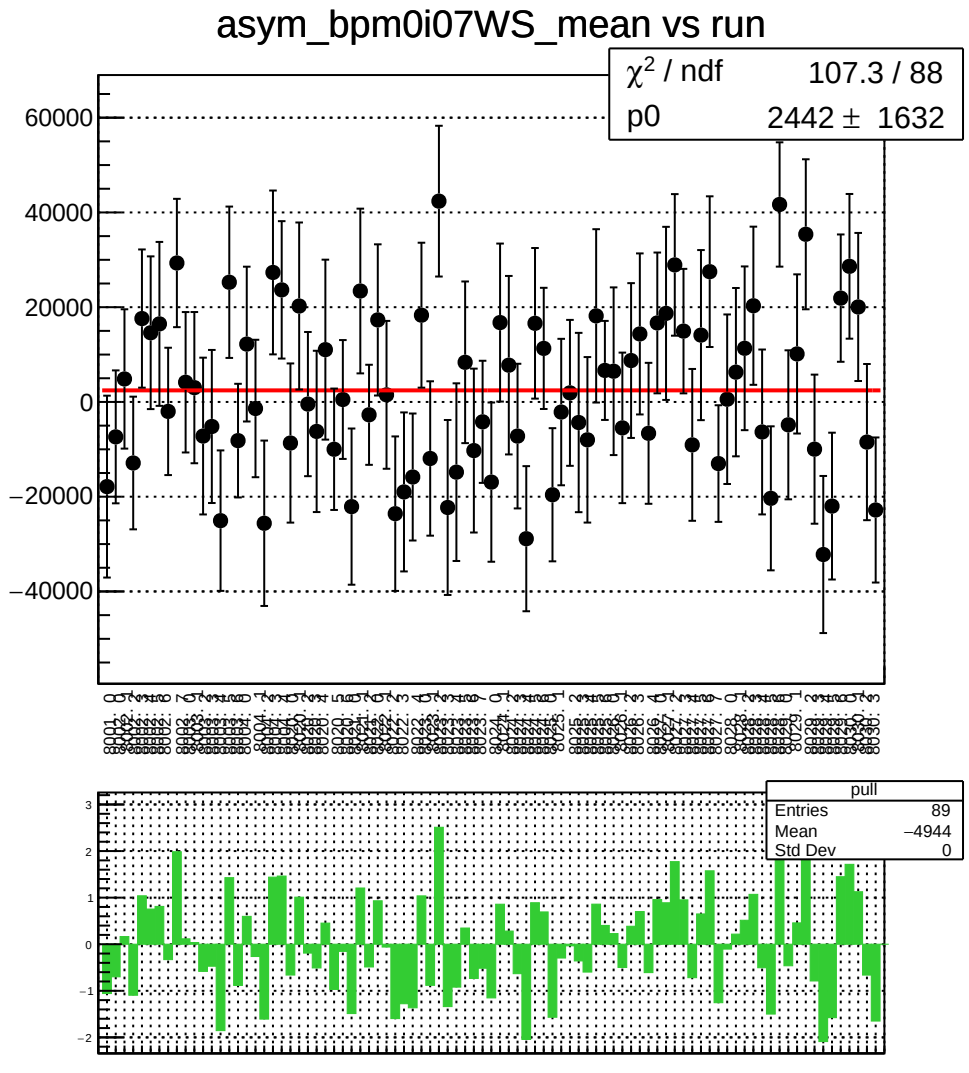

pull1D
Entries 89
Mean −0.1972
Std Dev 3.786
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

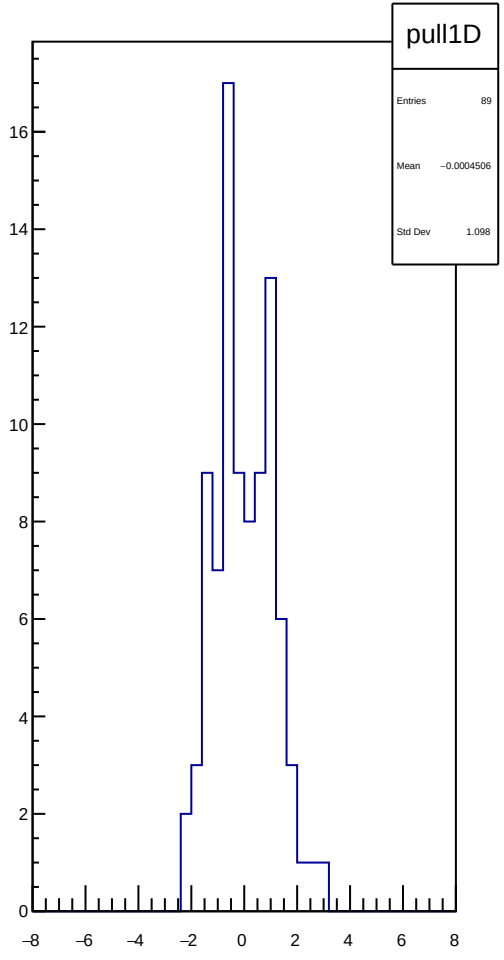

asym_bpm0i02aWS_rms vs run
χ² / ndf 1.117e+04 / 88
p0 182.4 ± 0.1389
400
350
300
250
200
150

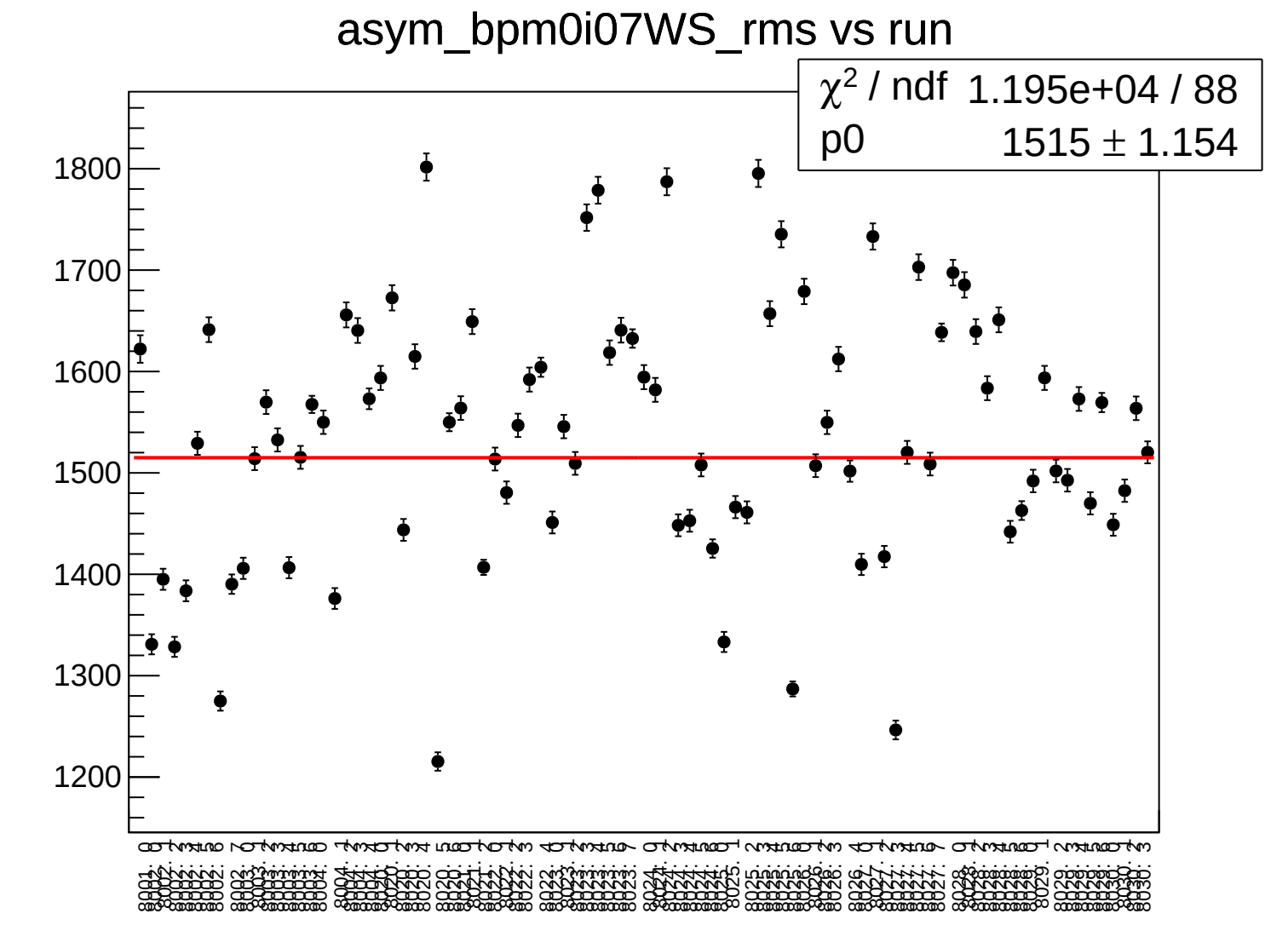

asym_bpm0i05WS_mean vs run
χ² / ndf 3879 / 88
p0 −7253 ± 224.4
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean −949.7
Std Dev 0
10
5
0
−5
−10

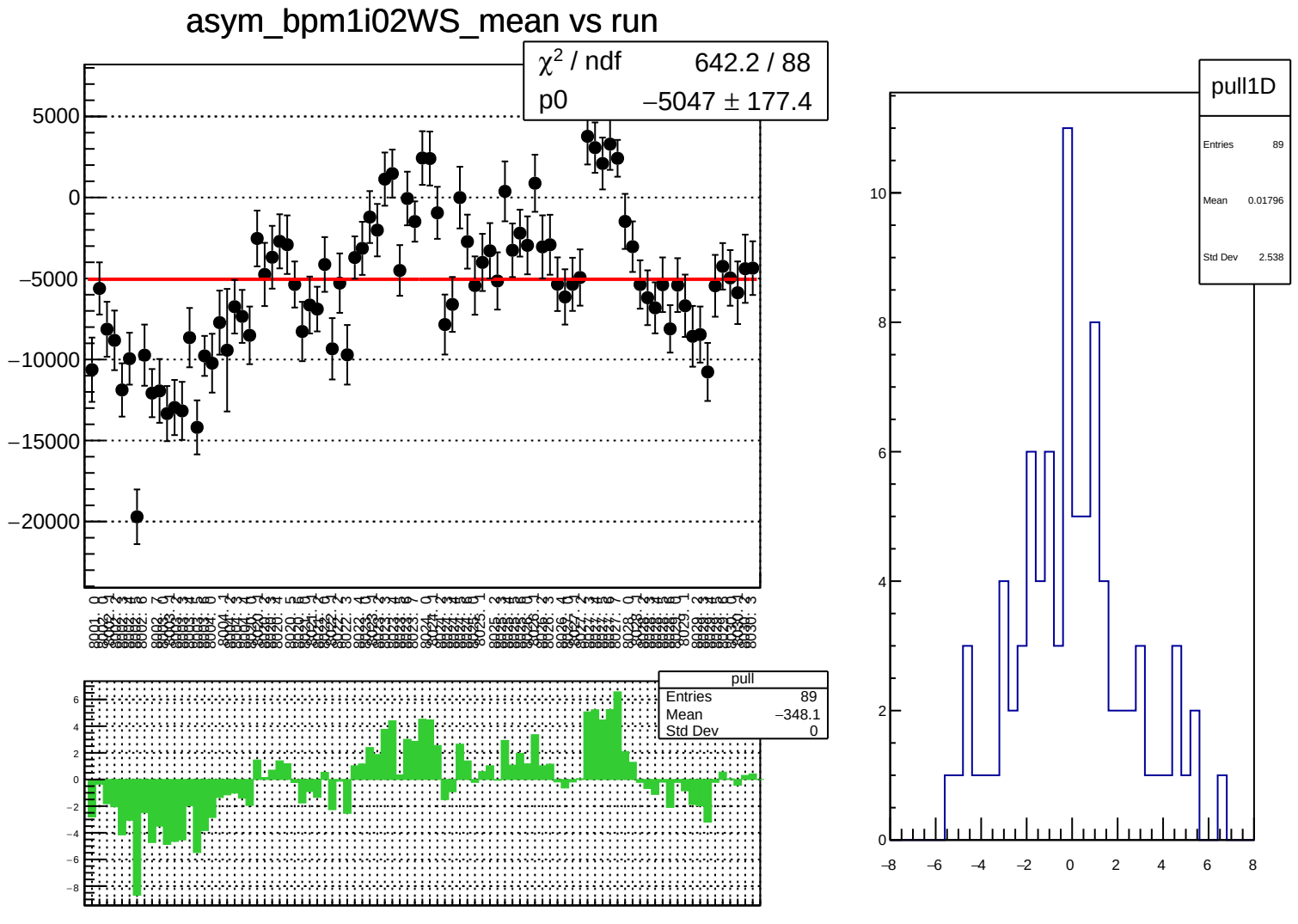

pull1D
Entries 89
Mean −0.5678
Std Dev 4.82
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

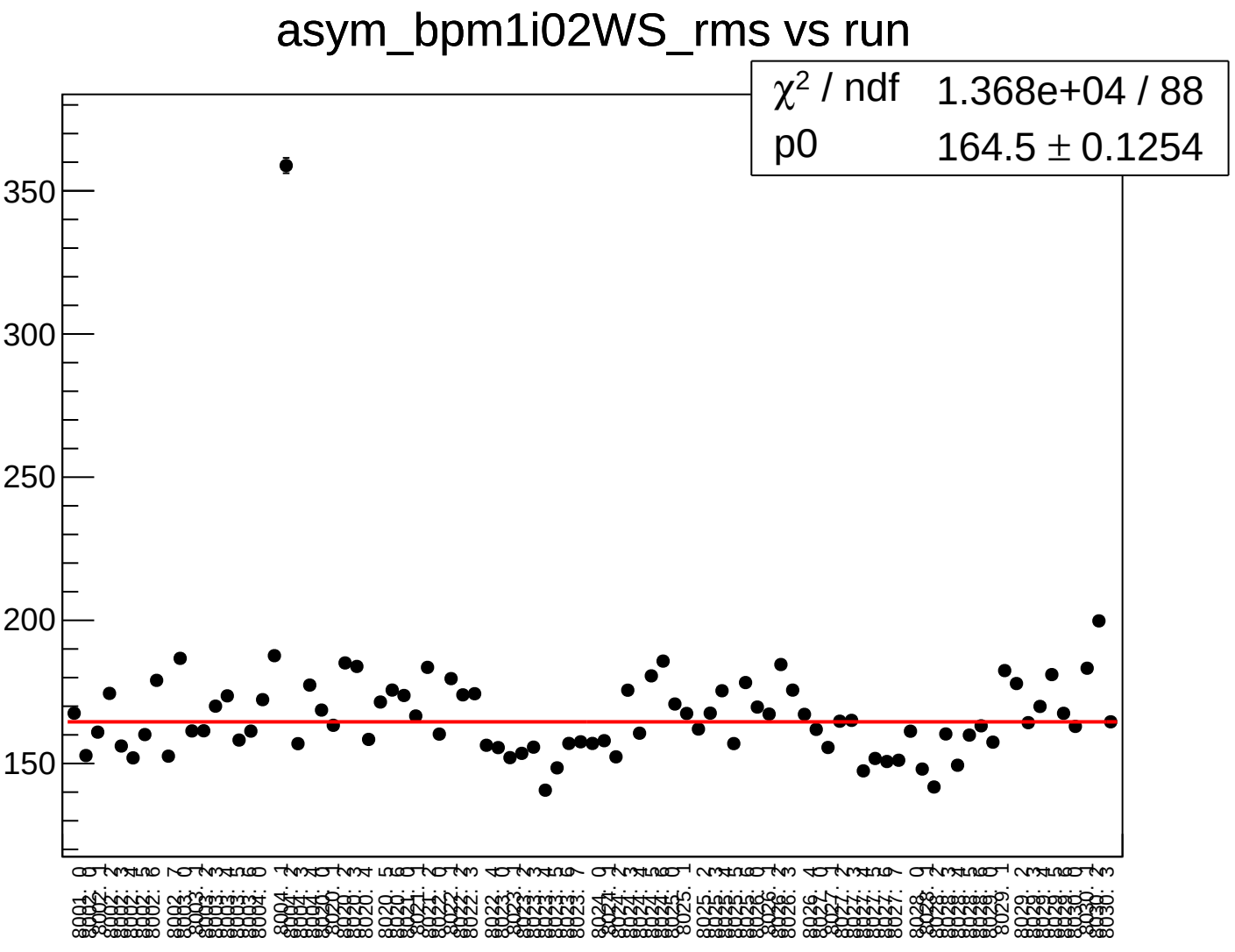

asym_bpm0i05WS_rms vs run
χ² / ndf 1.501e+04 / 88
p0 208.1 ± 0.1587
550
500
450
400
350
300
250
200
150

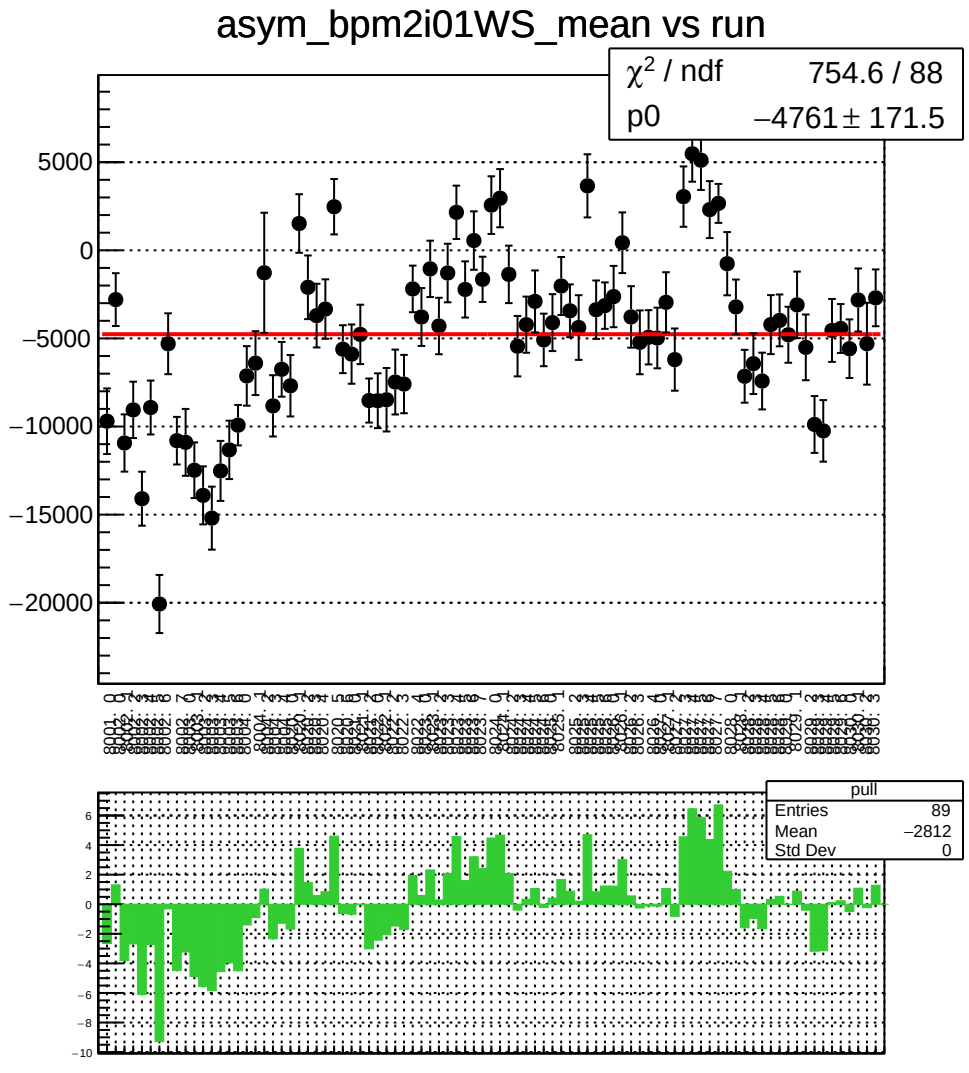

asym_bpm0i07WS_mean vs run
χ² / ndf 107.3 / 88
p0 2442 ± 1632
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −4944
Std Dev 0
3
2
1
0
−1
−2

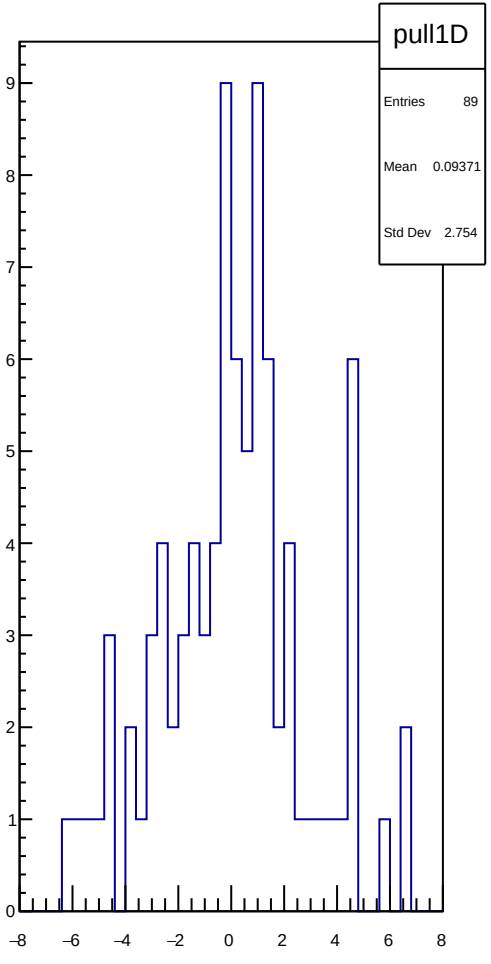

pull1D
Entries 89
Mean −0.0004506
Std Dev 1.098
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

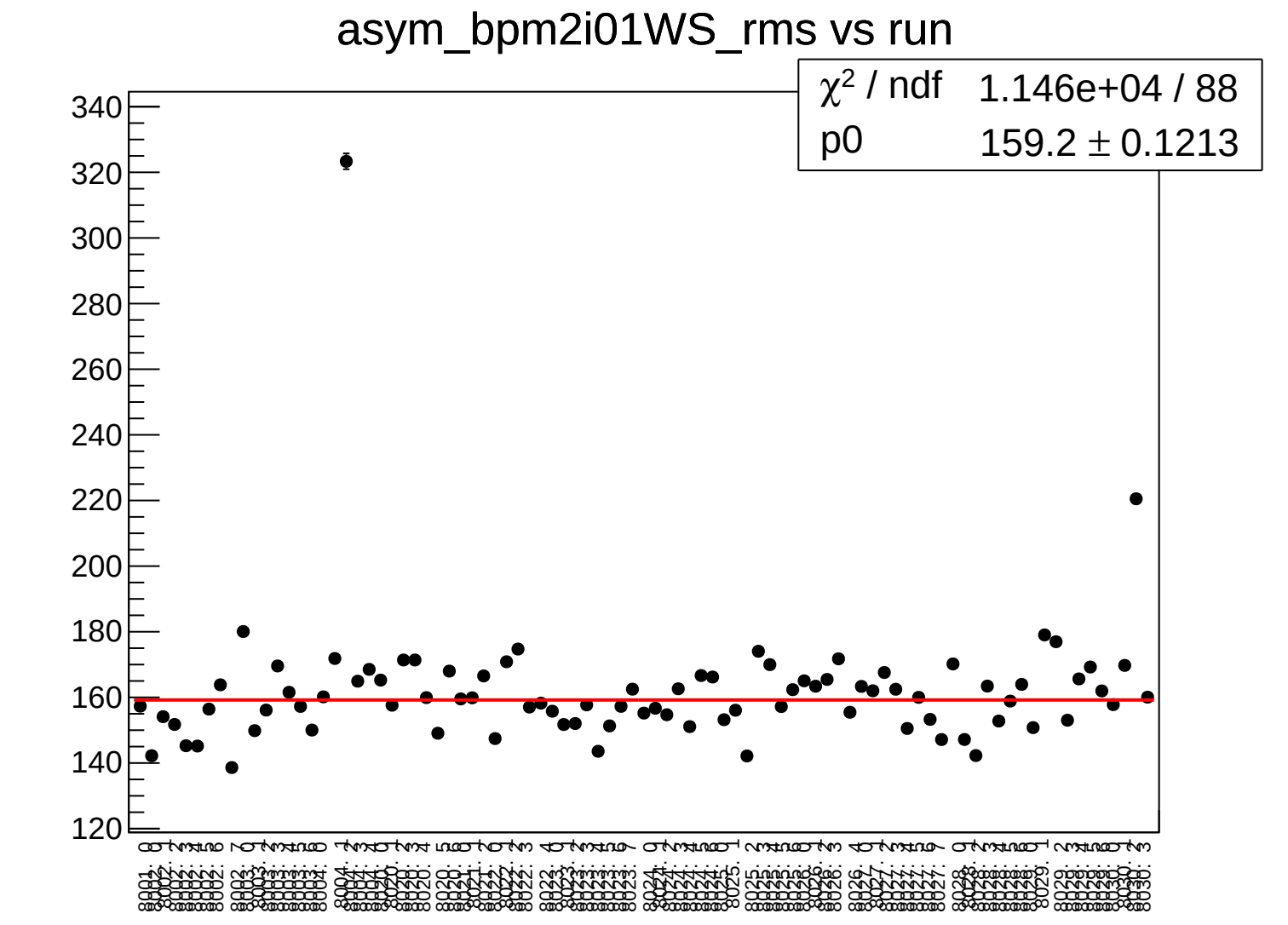

asym_bpm0i07WS_rms vs run
χ^2 / ndf 1.195e+04 / 88
p0 1515 ± 1.154
1800
1700
1600
1500
1400
1300
1200

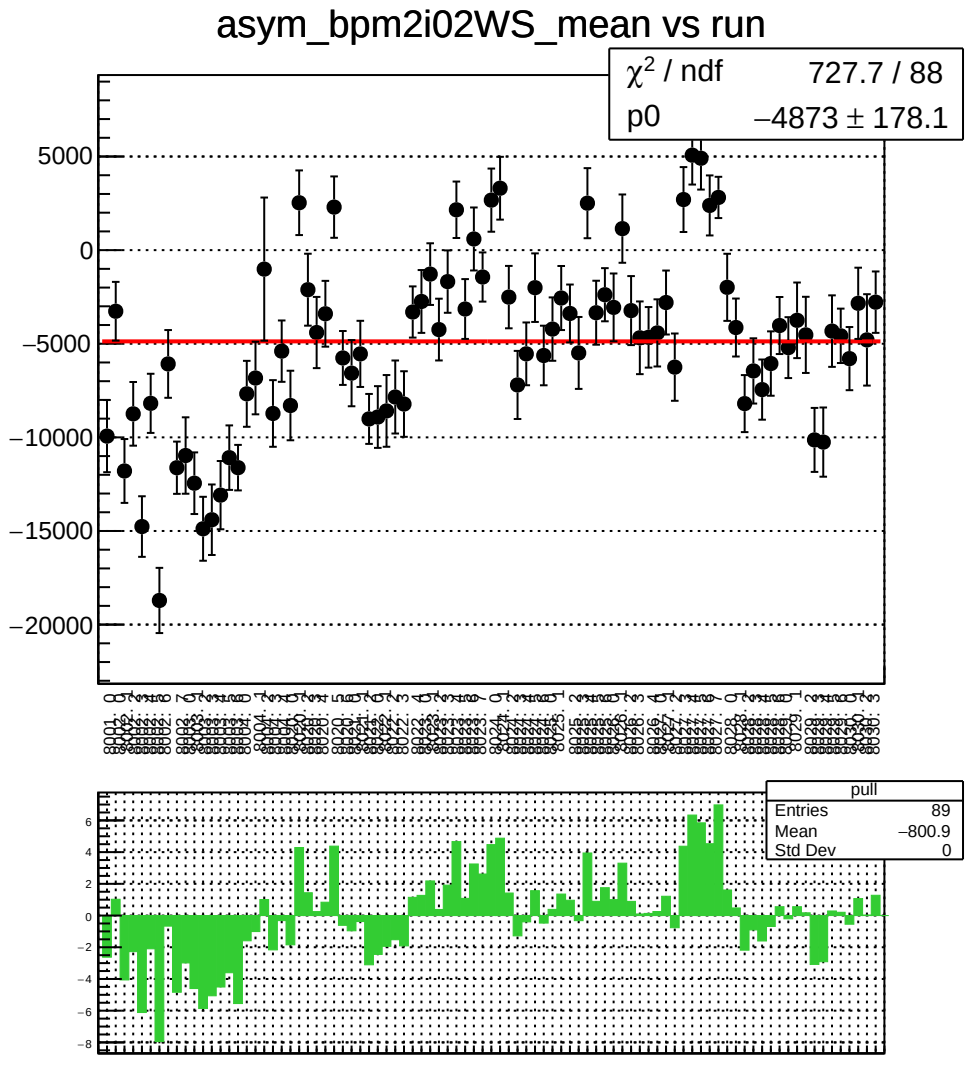

asym_bpm1i02WS_mean vs run
χ² / ndf 642.2 / 88
p0 −5047 ± 177.4
5000
0
−5000
−10000
−15000
−20000
pull
Entries 89
Mean −348.1
Std Dev 0
pull1D
Entries 89
Mean 0.01796
Std Dev 2.538

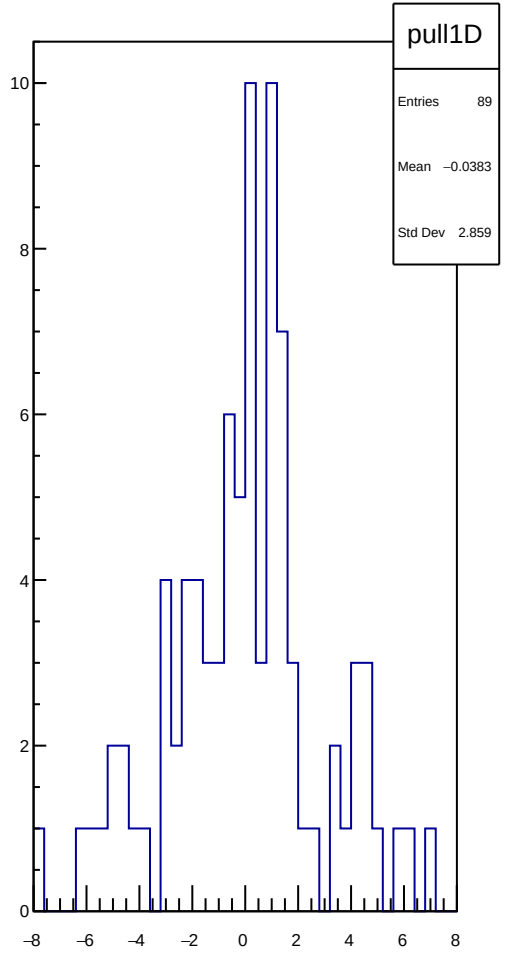

asym_bpm1i02WS_rms vs run
χ² / ndf 1.368e+04 / 88
p0 164.5 ± 0.1254
350
300
250
200
150

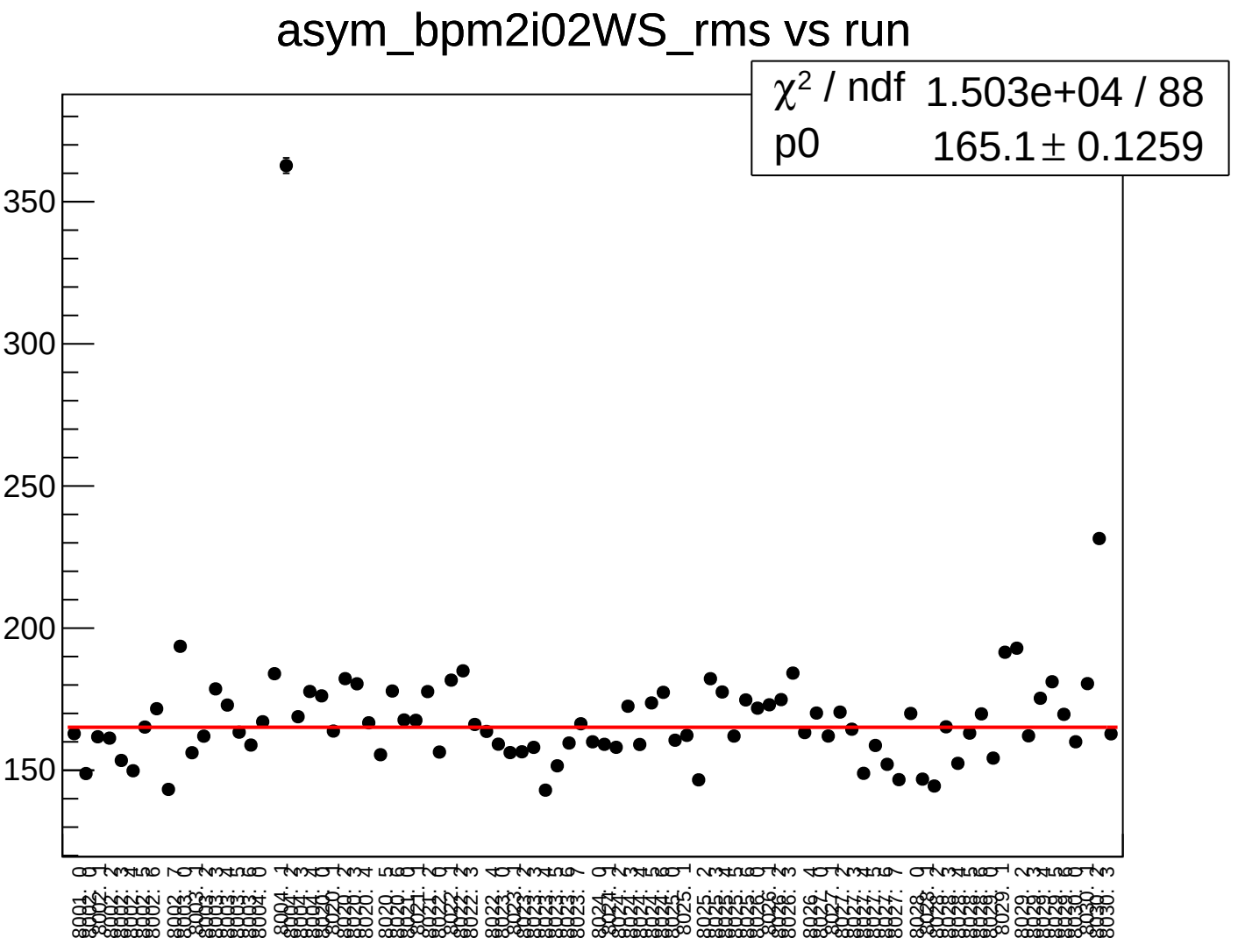

asym_bpm2i01WS_mean vs run
χ² / ndf 754.6 / 88
p0 −4761 ± 171.5
5000
0
−5000
−10000
−15000
−20000
pull
Entries 89
Mean −2812
Std Dev 0
6
4
2
0
−2
−4
−6
−8
−10

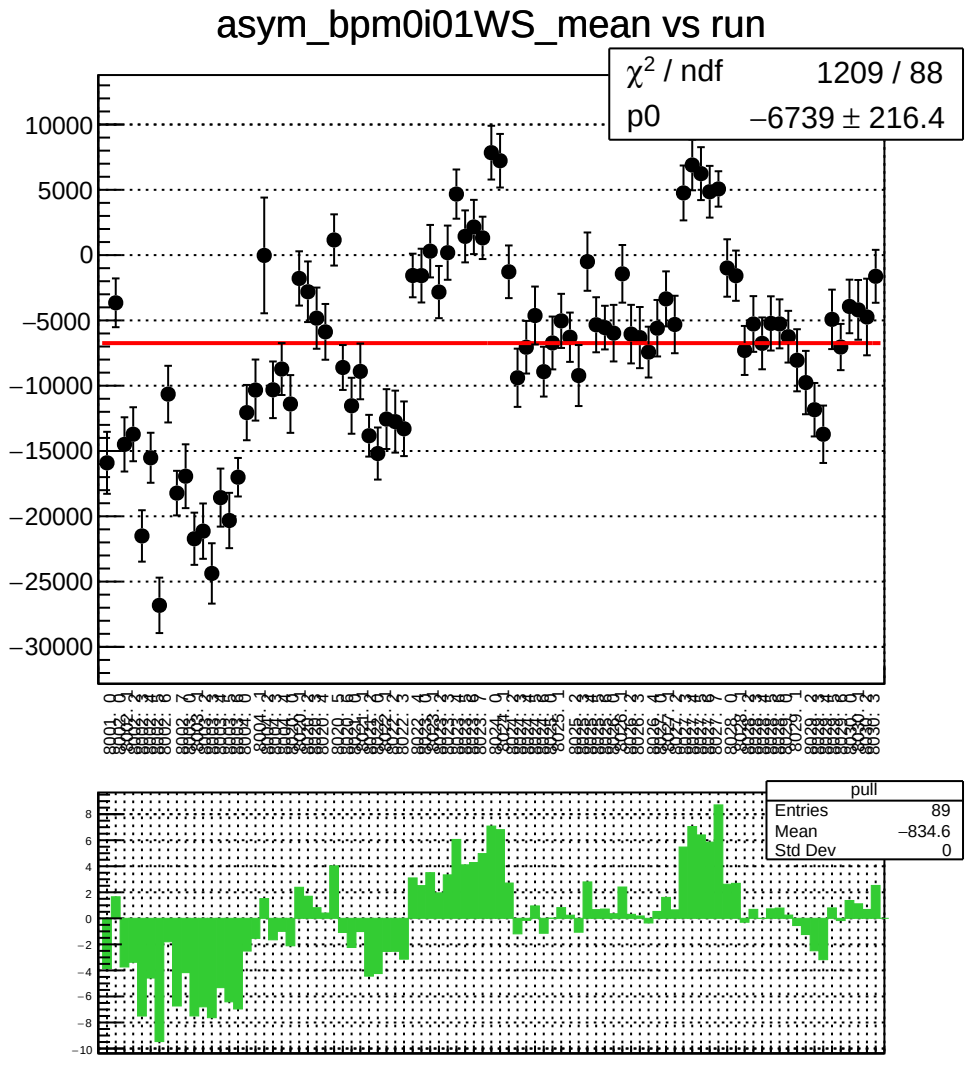

pull1D
Entries 89
Mean 0.09371
Std Dev 2.754
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

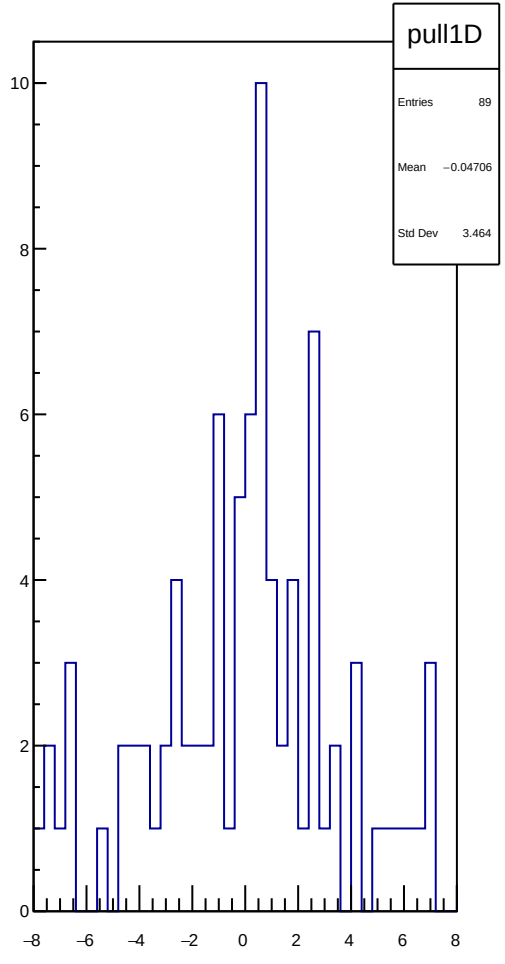

asym_bpm2i01WS_rms vs run
χ^2 / ndf 1.146e+04 / 88
p0 159.2 ± 0.1213
340
320
300
280
260
240
220
200
180
160
140
120

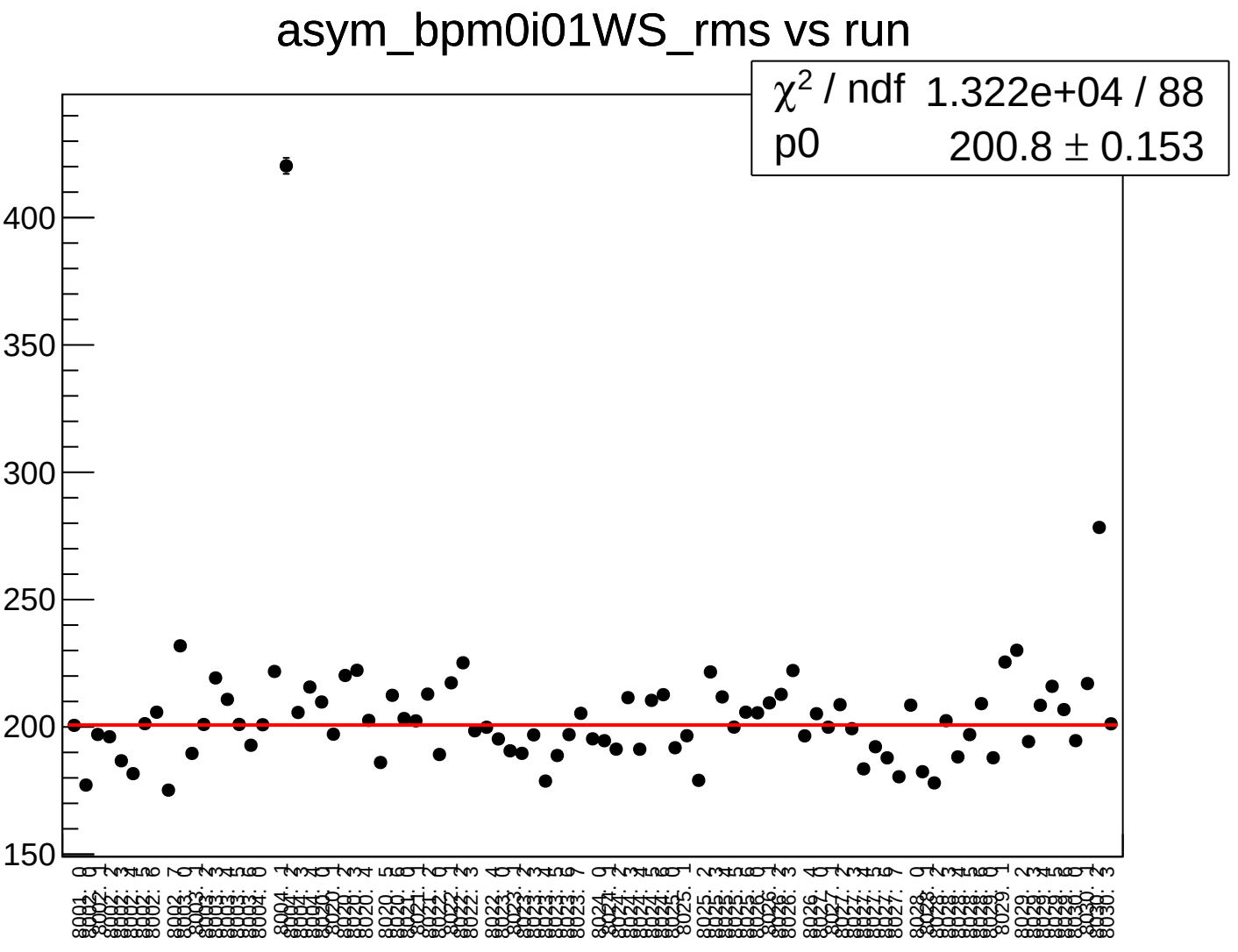

asym_bpm2i02WS_mean vs run
χ² / ndf 727.7 / 88
p0 −4873 ± 178.1
5000
0
−5000
−10000
−15000
−20000
pull
Entries 89
Mean −800.9
Std Dev 0
6
4
2
0
−2
−4
−6
−8

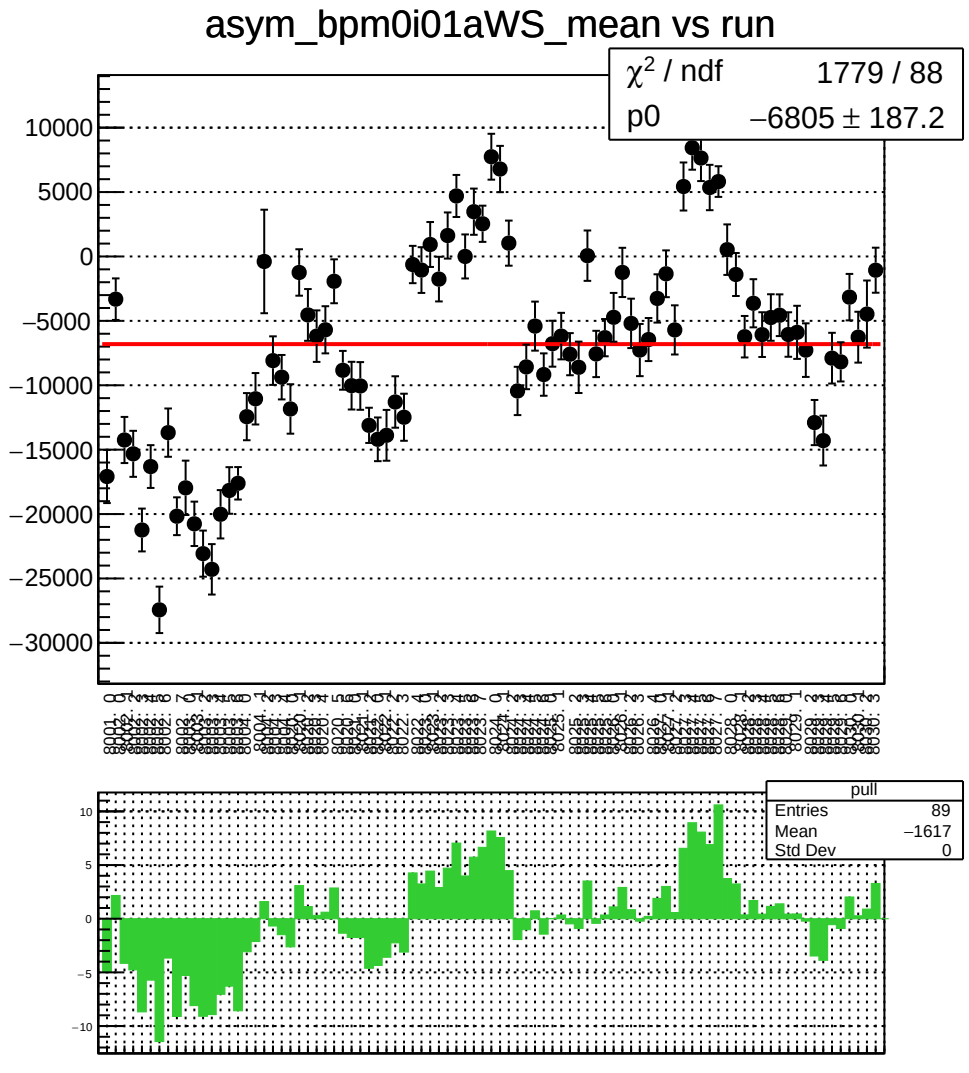

pull1D
Entries 89
Mean −0.0383
Std Dev 2.859
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

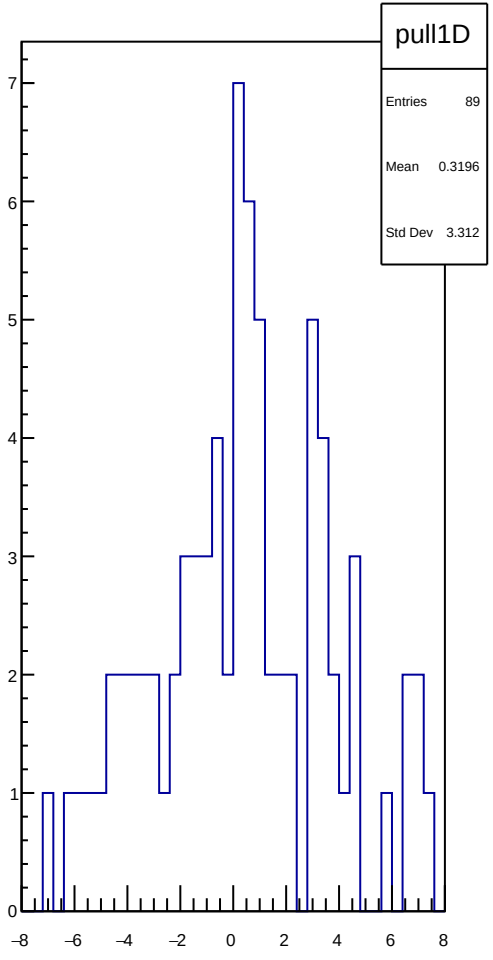

asym_bpm2i02WS_rms vs run
χ² / ndf 1.503e+04 / 88
p0 165.1 ± 0.1259
350
300
250
200
150

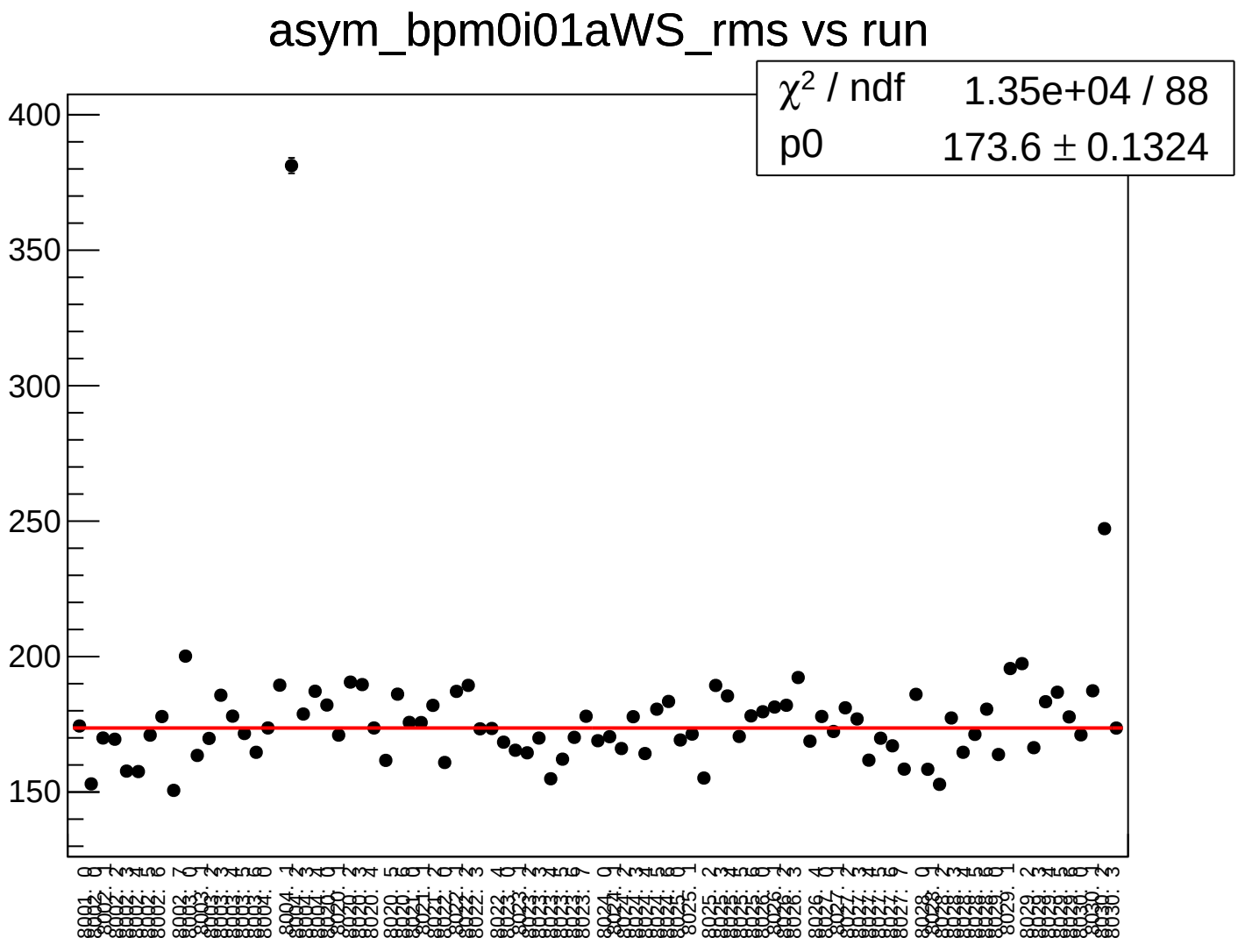

asym_bpm0i01WS_mean vs run
χ² / ndf 1209 / 88
p0 −6739 ± 216.4
pull
Entries 89
Mean −834.6
Std Dev 0

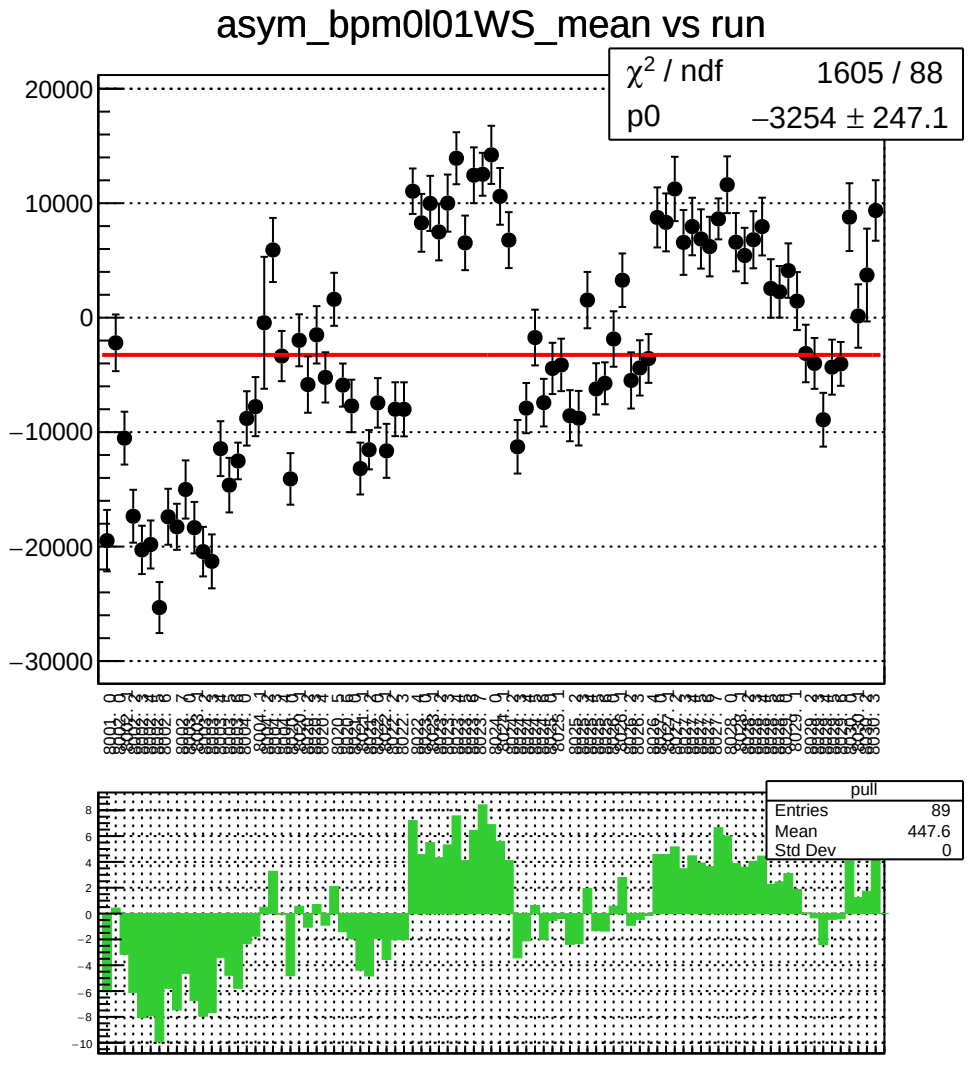

pull1D
Entries 89
Mean −0.04706
Std Dev 3.464

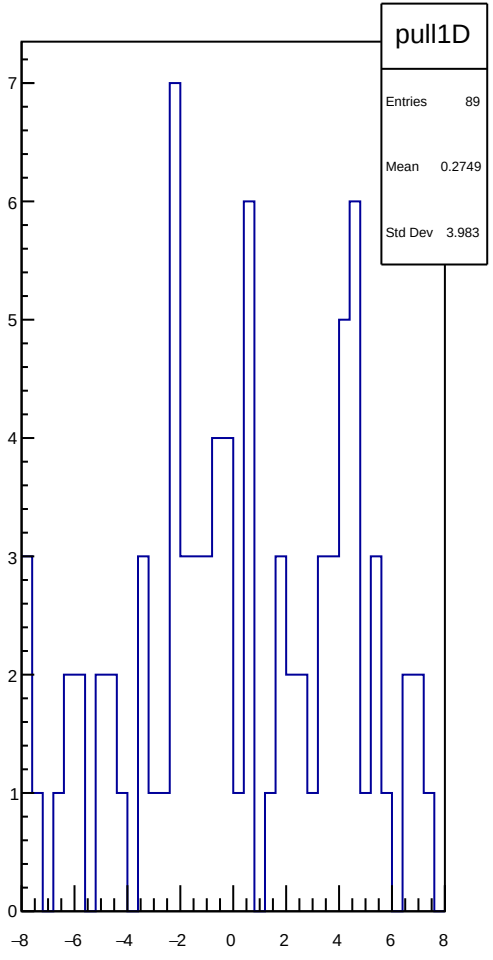

asym_bpm0i01WS_rms vs run
χ^2 / ndf 1.322e+04 / 88
p0 200.8 ± 0.153
400
350
300
250
200
150

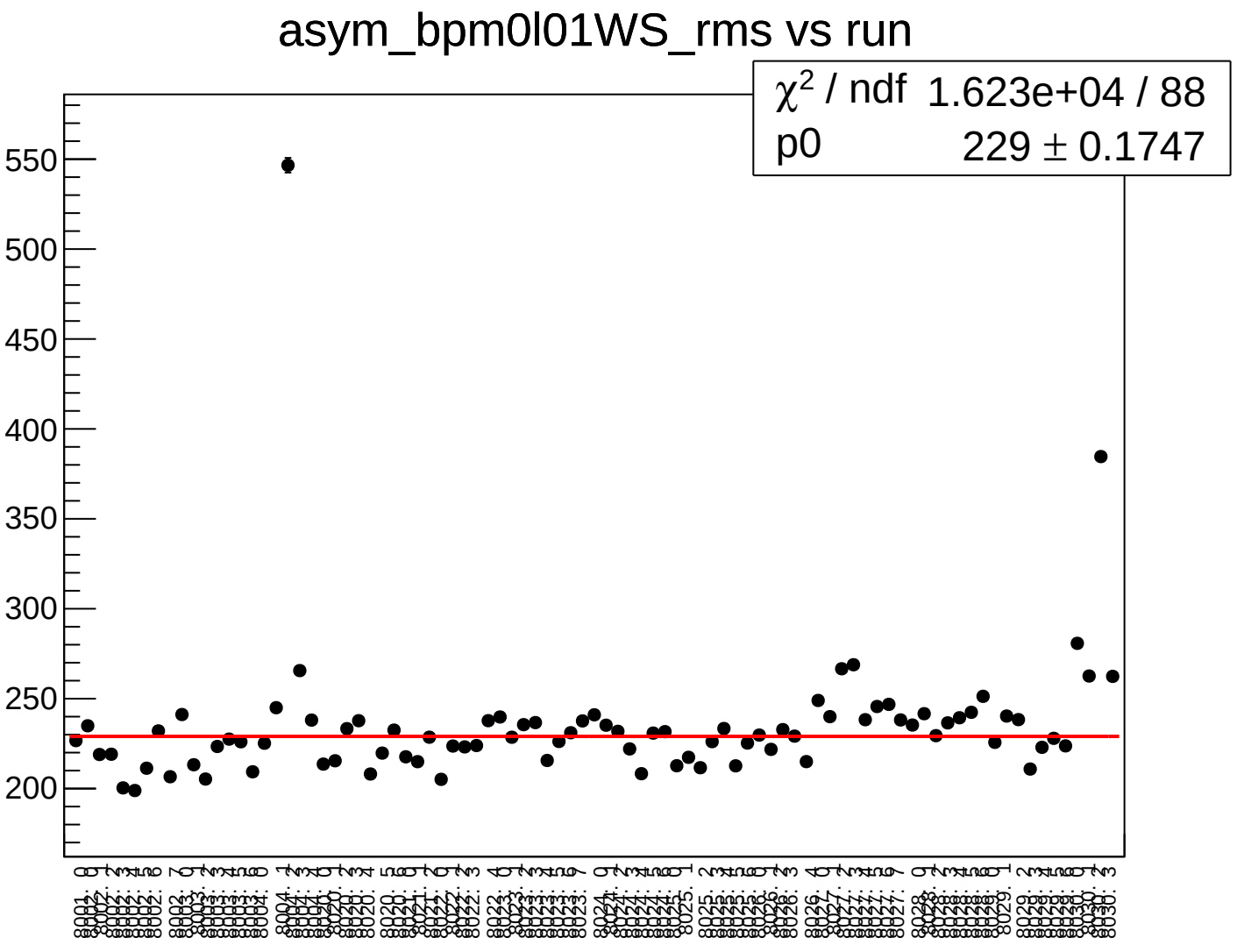

asym_bpm0i01aWS_mean vs run
χ² / ndf 1779 / 88
p0 −6805 ± 187.2
pull
Entries 89
Mean −1617
Std Dev 0

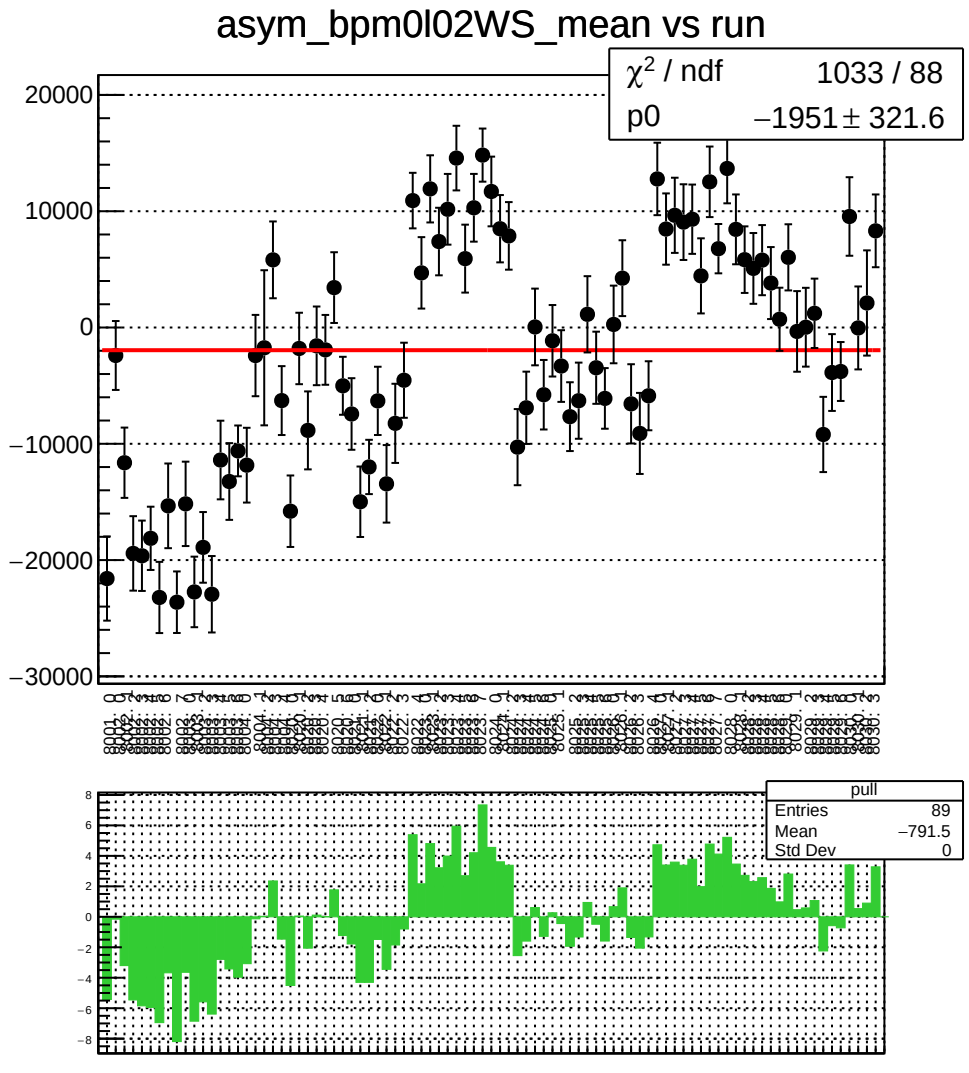

pull1D
Entries 89
Mean 0.3196
Std Dev 3.312

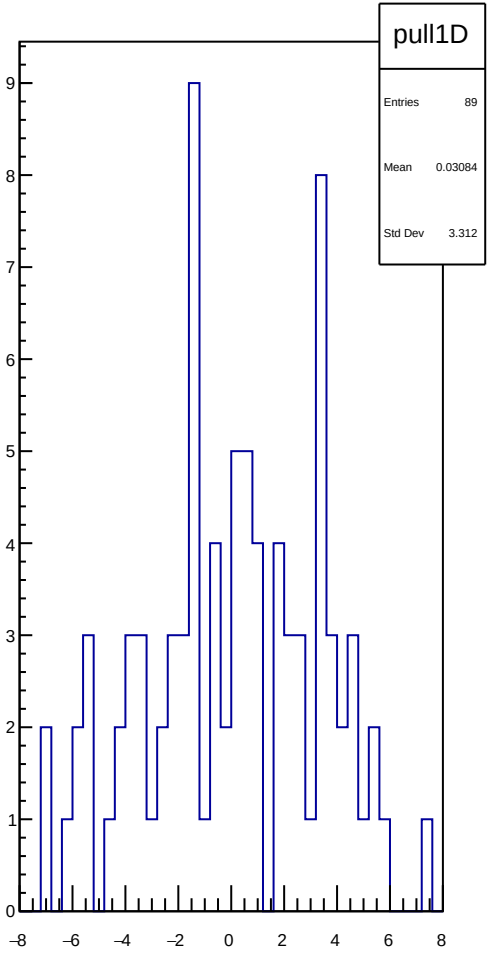

asym_bpm0i01aWS_rms vs run
χ² / ndf 1.35e+04 / 88
p0 173.6 ± 0.1324
400
350
300
250
200
150

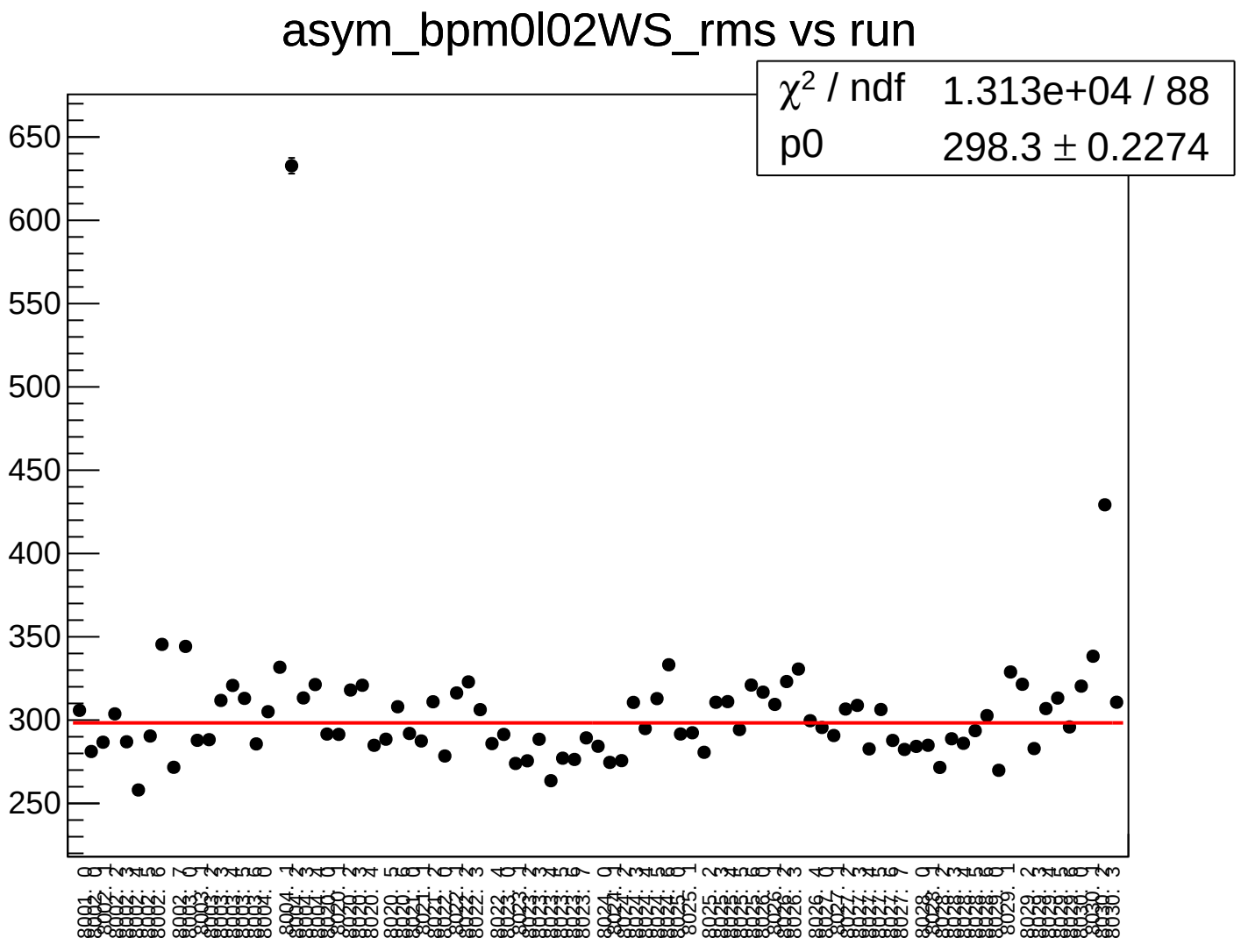

asym_bpm0l01WS_mean vs run
χ² / ndf 1605 / 88
p0 −3254 ± 247.1
pull
Entries 89
Mean 447.6
Std Dev 0

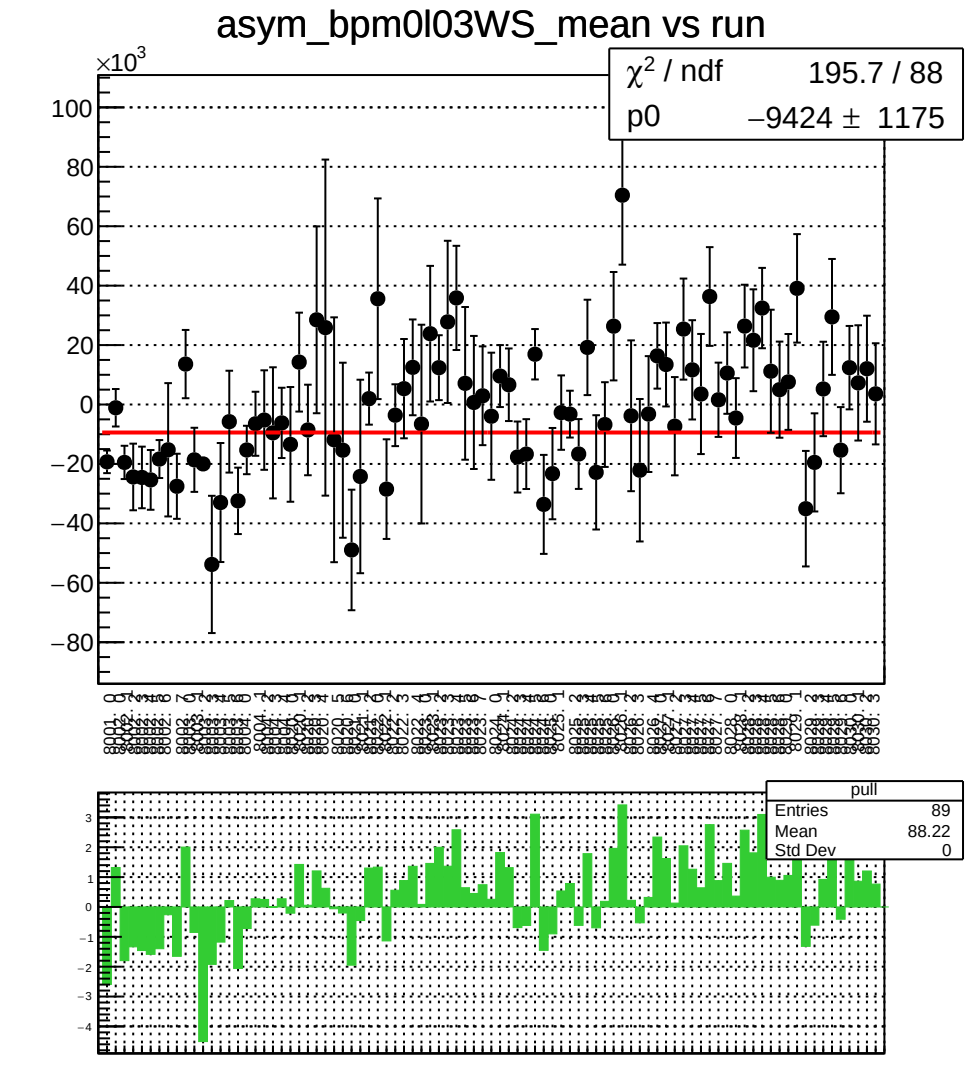

pull1D
Entries 89
Mean 0.2749
Std Dev 3.983

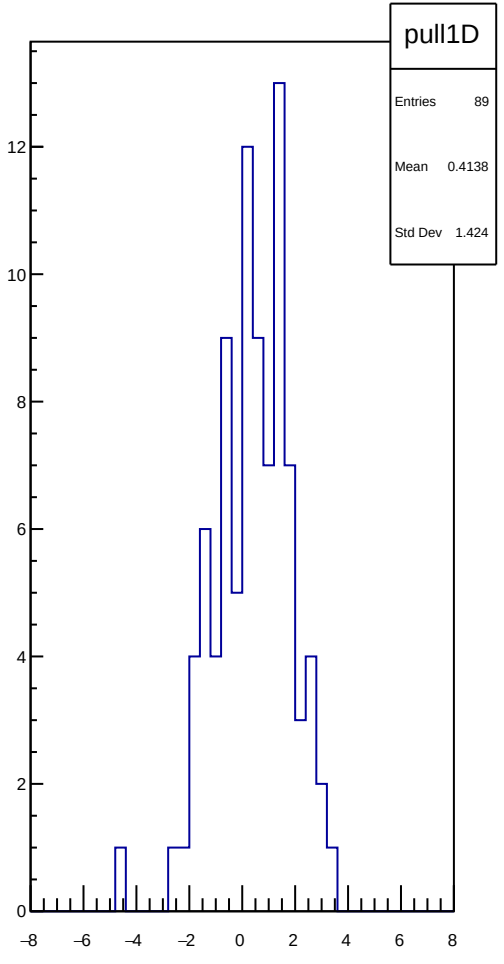

asym_bpm0l01WS_rms vs run
χ^2 / ndf 1.623e+04 / 88
p0 229 ± 0.1747
550
500
450
400
350
300
250
200

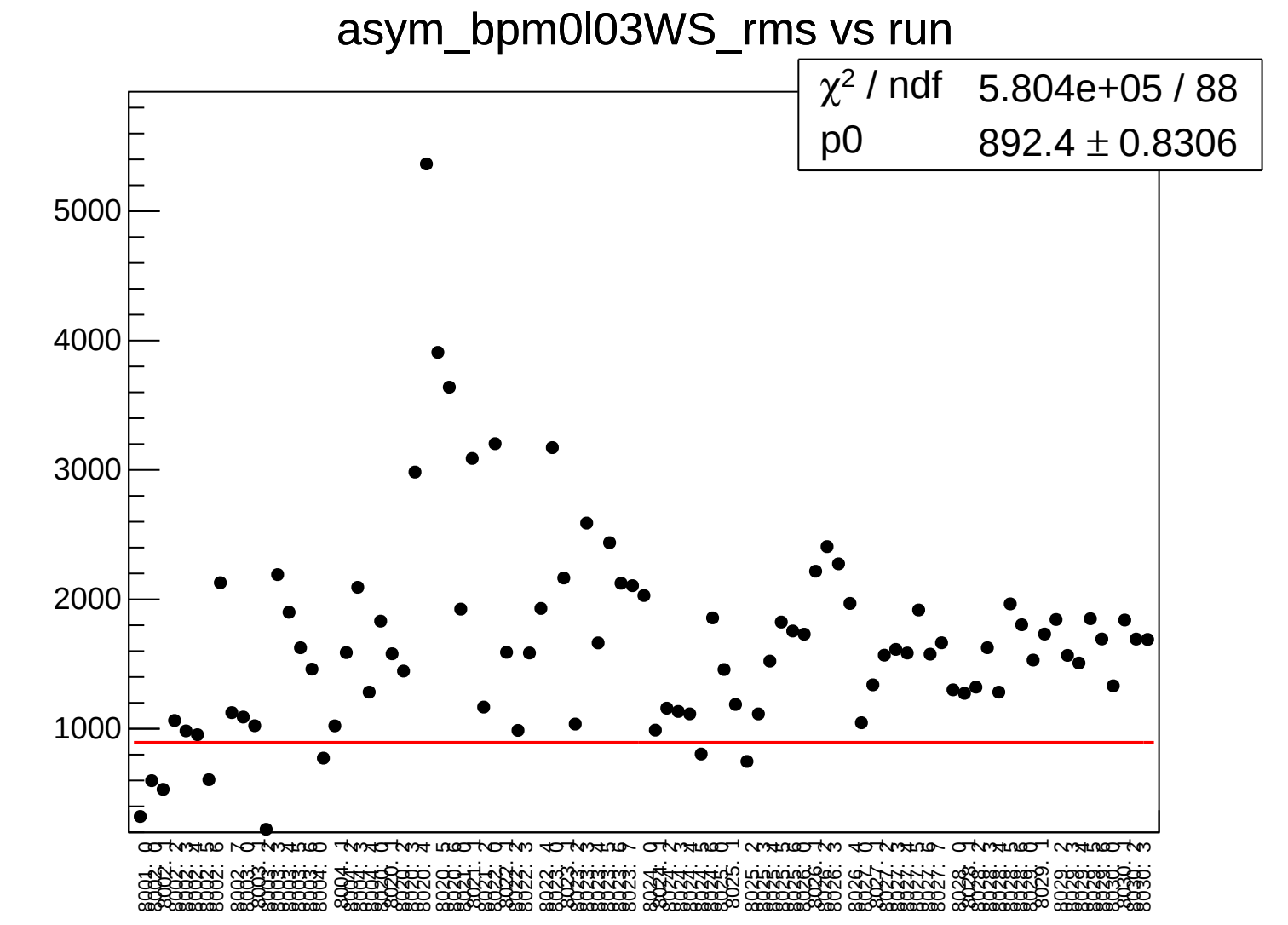

asym_bpm0l02WS_mean vs run
χ² / ndf 1033 / 88
p0 −1951 ± 321.6
pull
Entries 89
Mean −791.5
Std Dev 0

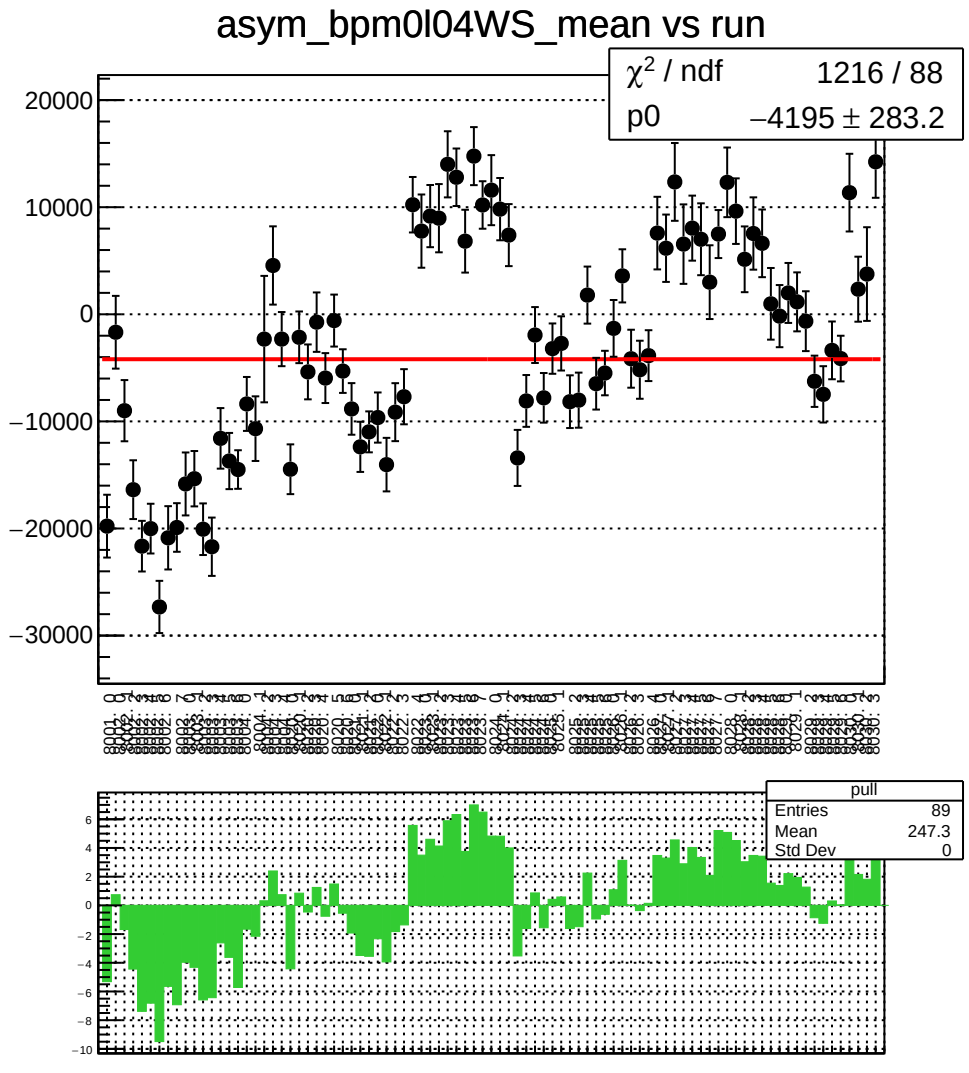

pull1D
Entries 89
Mean 0.03084
Std Dev 3.312

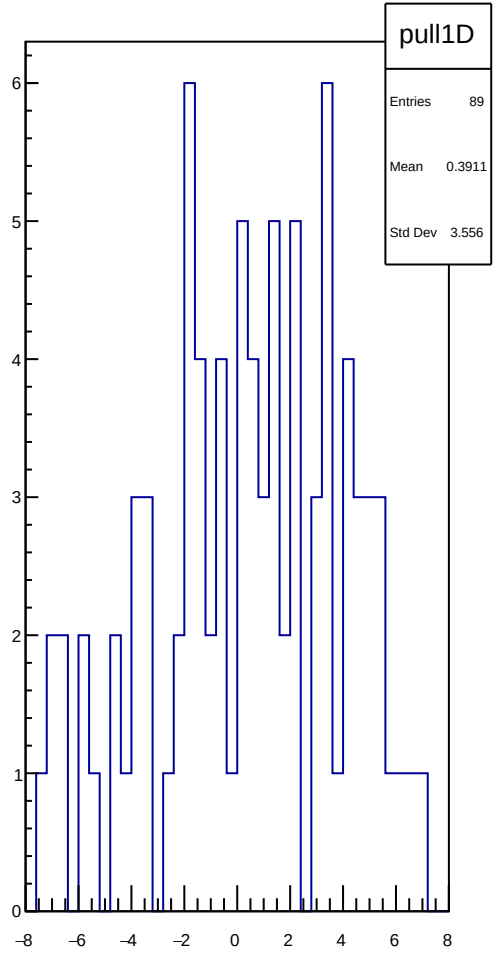

asym_bpm0l02WS_rms vs run
χ² / ndf 1.313e+04 / 88
p0 298.3 ± 0.2274
650
600
550
500
450
400
350
300
250

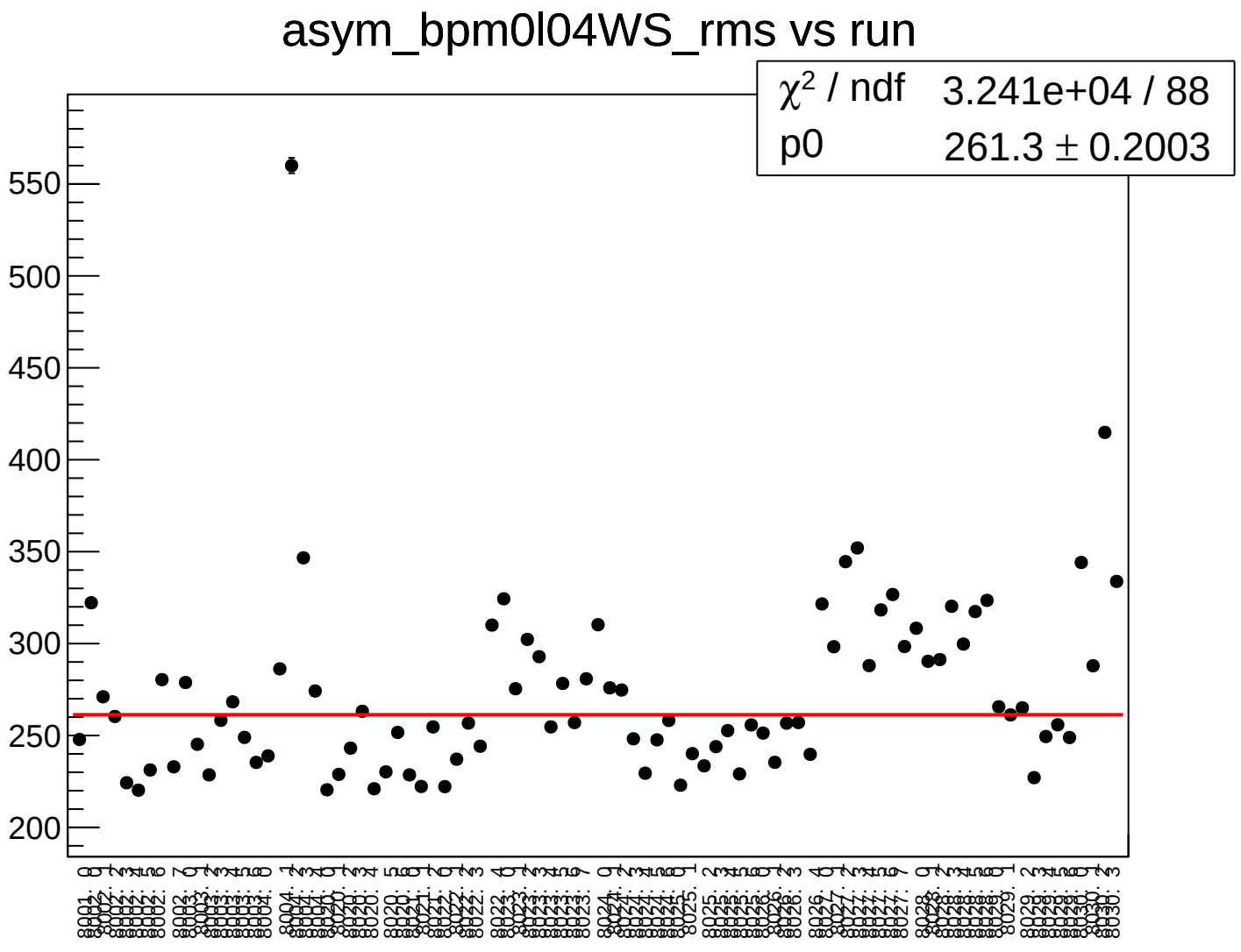

asym_bpm0l03WS_mean vs run
×10^3
χ^2 / ndf 195.7 / 88
p0 −9424 ± 1175
pull
Entries 89
Mean 88.22
Std Dev 0

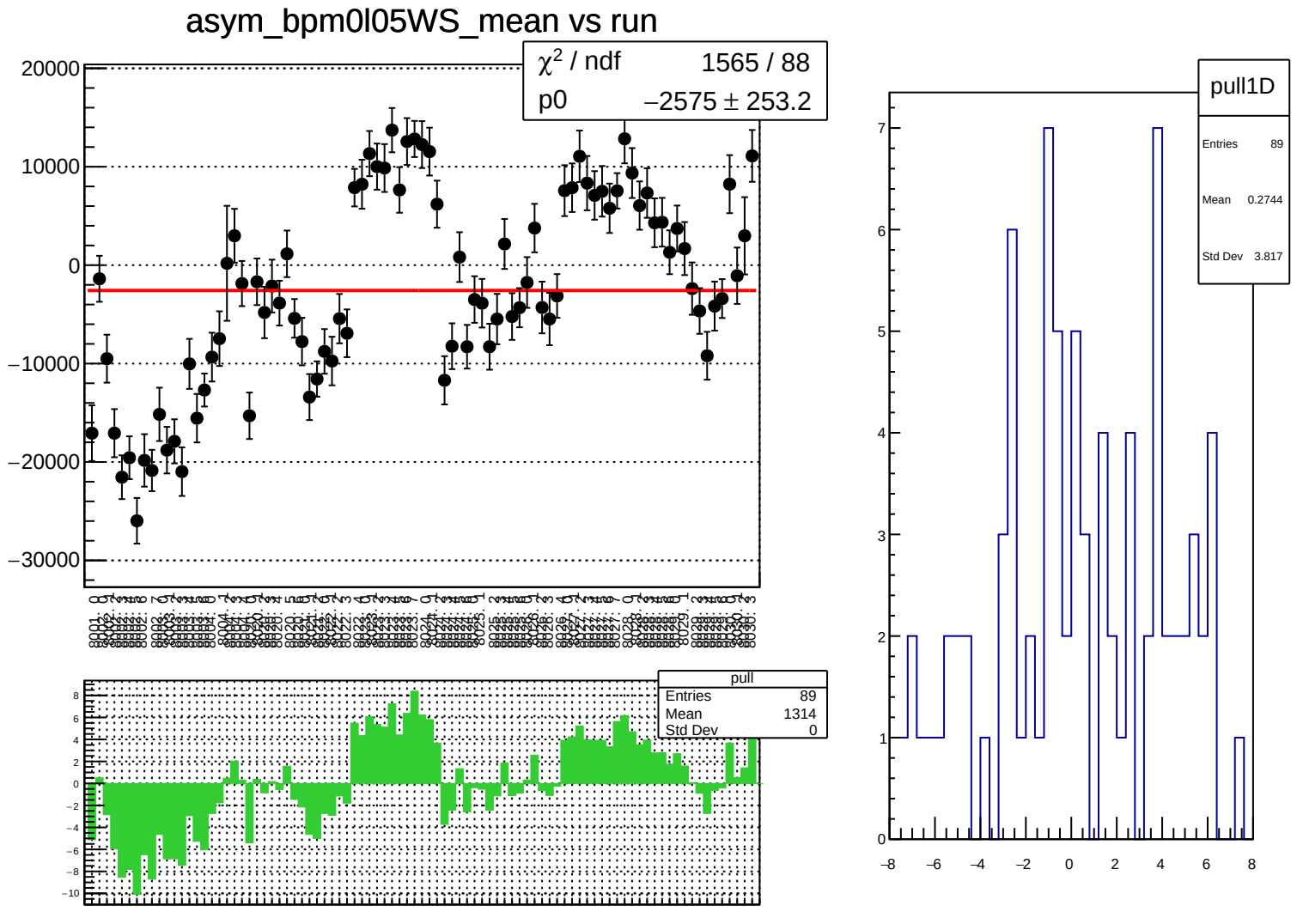

pull1D
Entries 89
Mean 0.4138
Std Dev 1.424

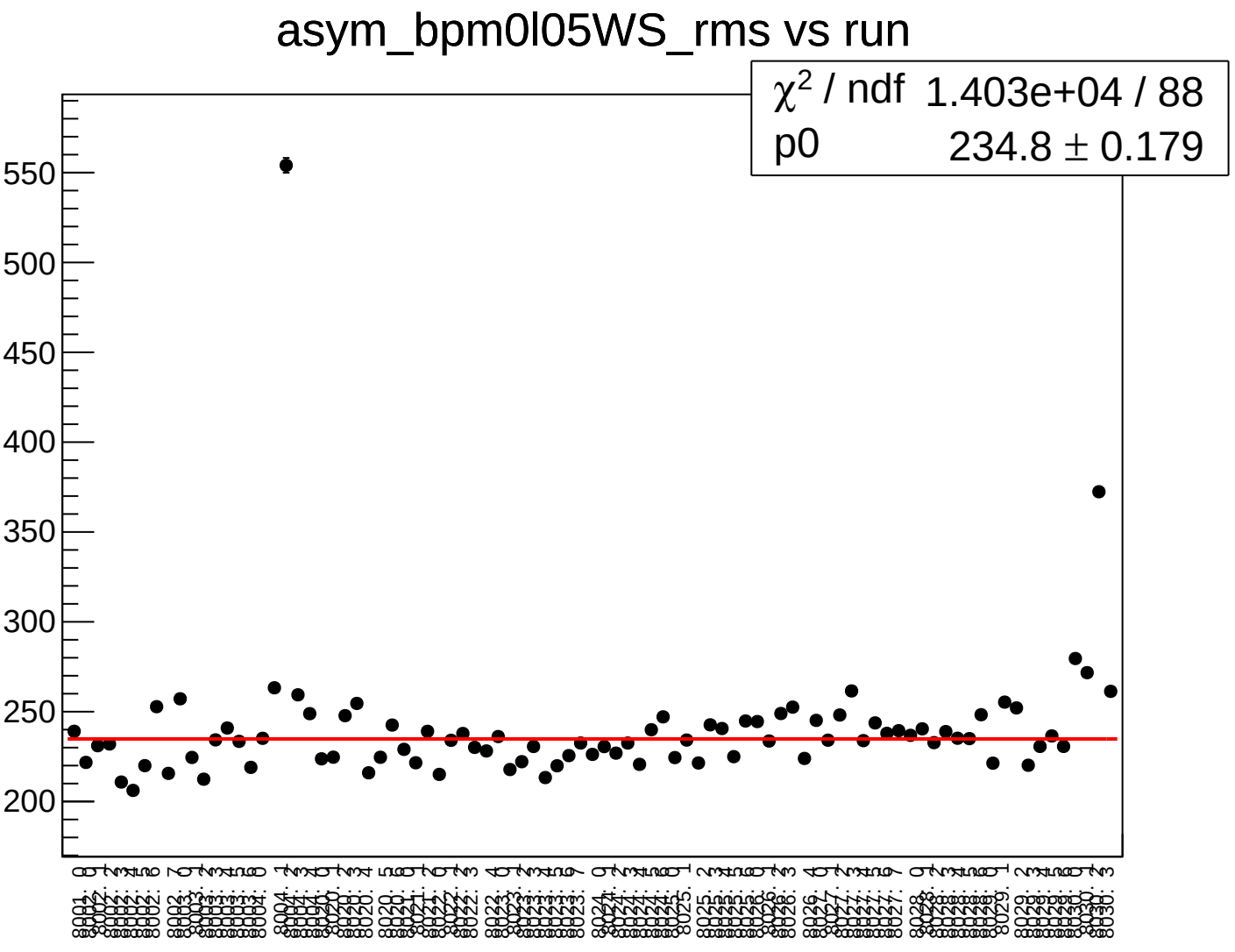

asym_bpm0l03WS_rms vs run
χ² / ndf 5.804e+05 / 88
p0 892.4 ± 0.8306
5000
4000
3000
2000
1000

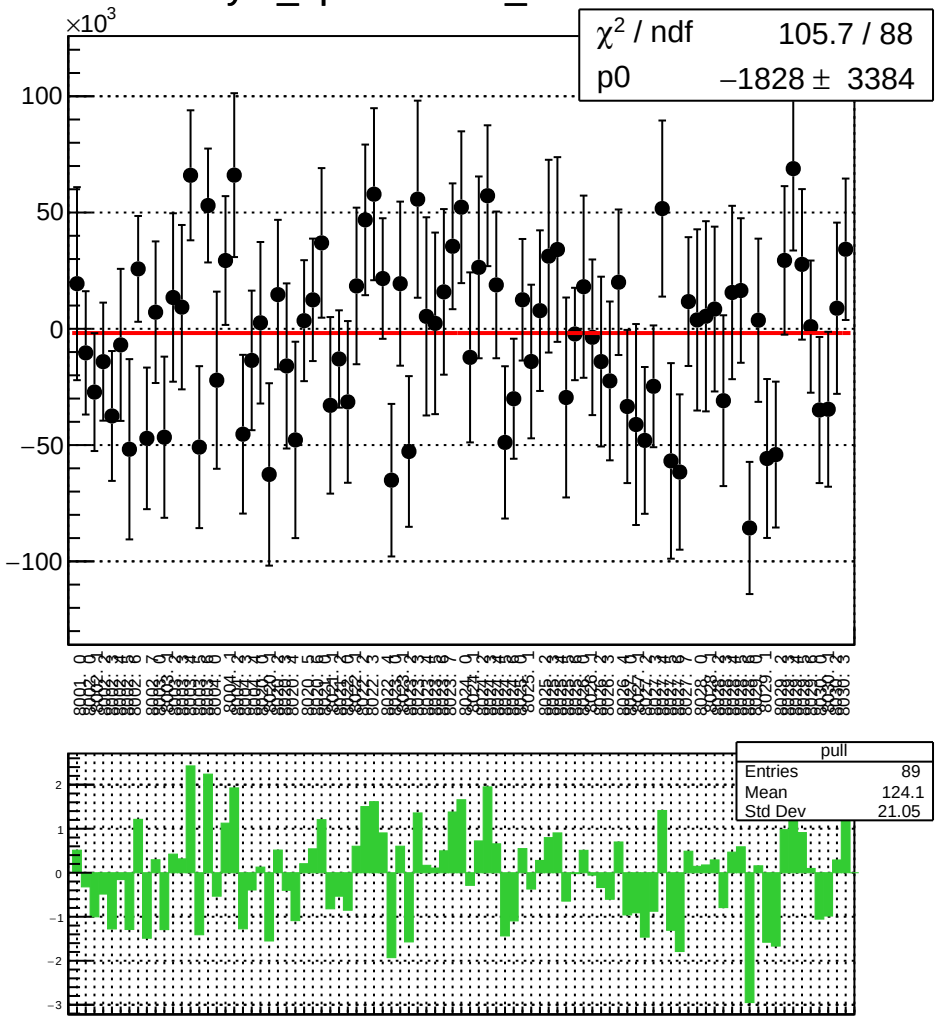

asym_bpm0l04WS_mean vs run
χ² / ndf 1216 / 88
p0 −4195 ± 283.2
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 247.3
Std Dev 0
6
4
2
0
−2
−4
−6
−8
−10

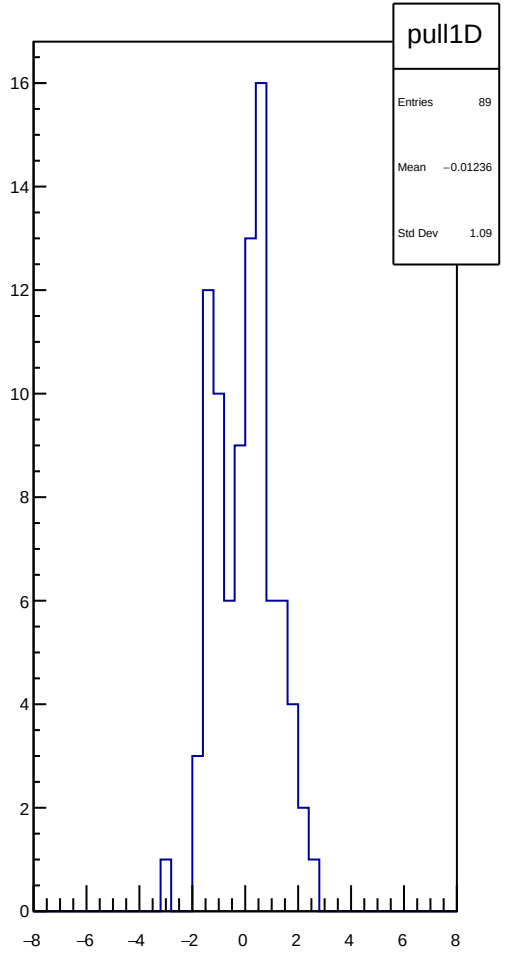

pull1D
Entries 89
Mean 0.3911
Std Dev 3.556
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

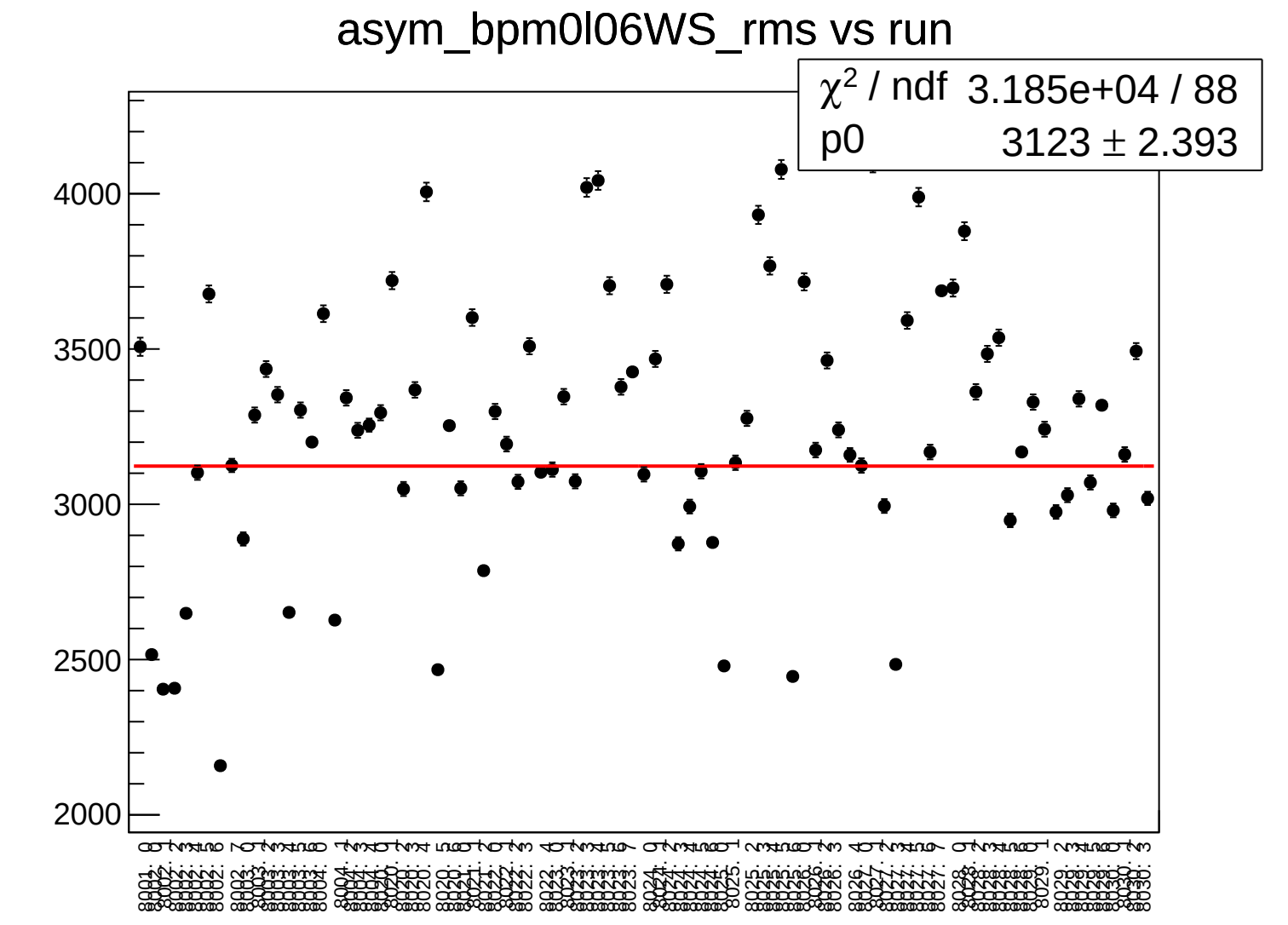

asym_bpm0l04WS_rms vs run
χ² / ndf 3.241e+04 / 88
p0 261.3 ± 0.2003
550
500
450
400
350
300
250
200

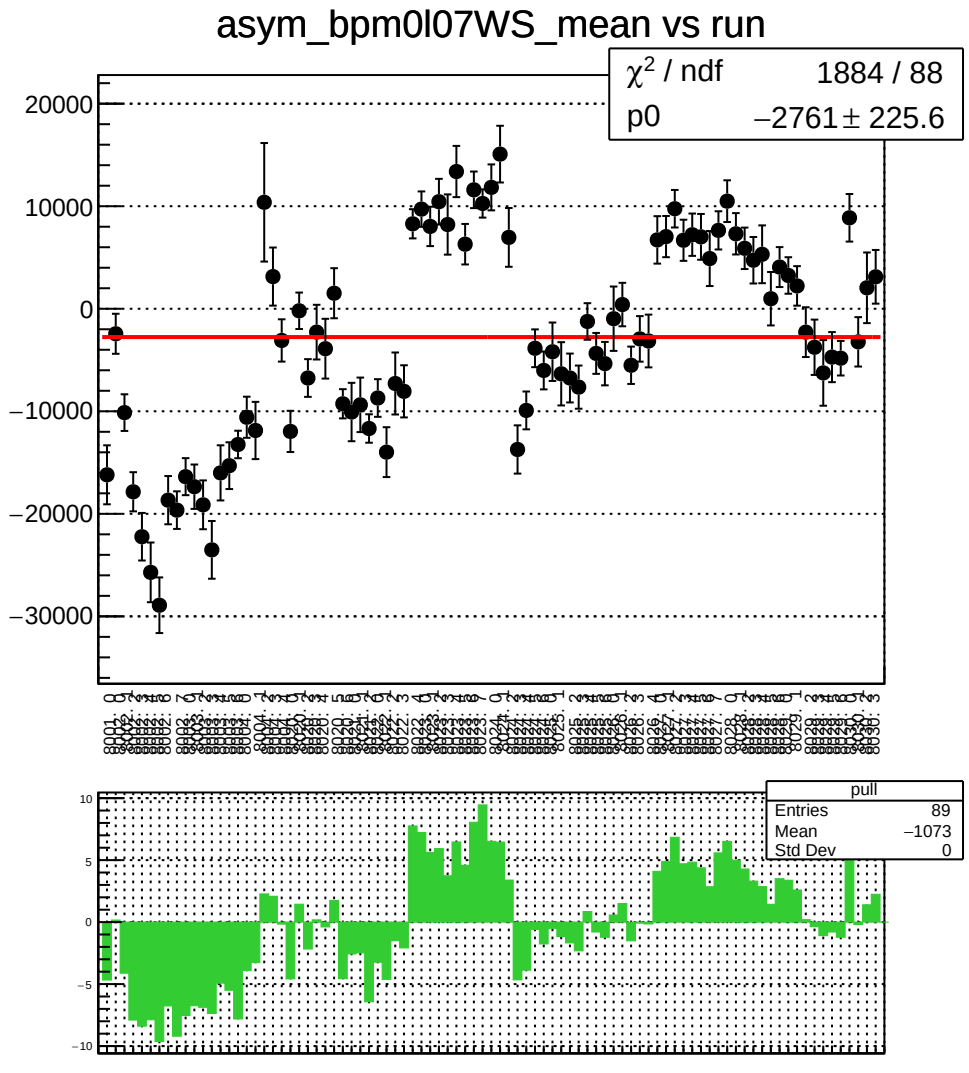

asym_bpm0l05WS_mean vs run
χ² / ndf 1565 / 88
p0 −2575 ± 253.2
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 1314
Std Dev 0
8
6
4
2
0
−2
−4
−6
−8
−10
pull1D
Entries 89
Mean 0.2744
Std Dev 3.817
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

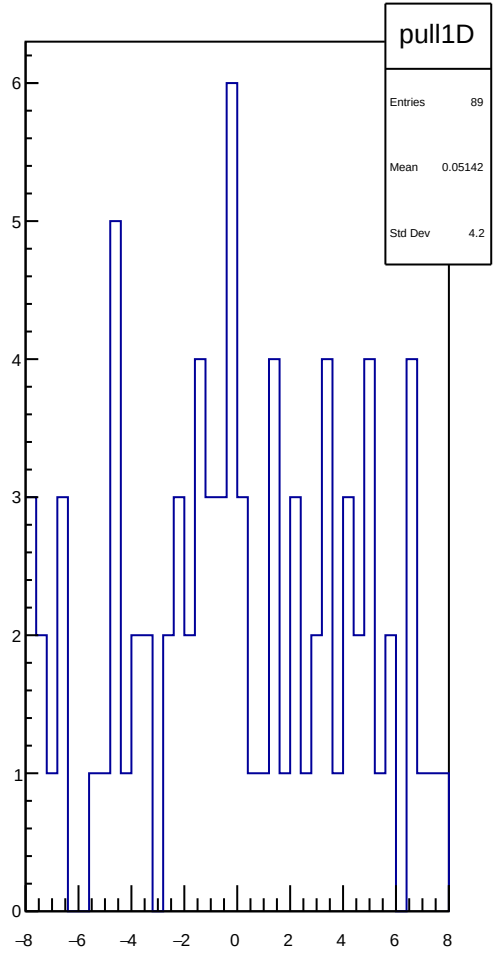

asym_bpm0l05WS_rms vs run
χ² / ndf 1.403e+04 / 88
p0 234.8 ± 0.179
550
500
450
400
350
300
250
200

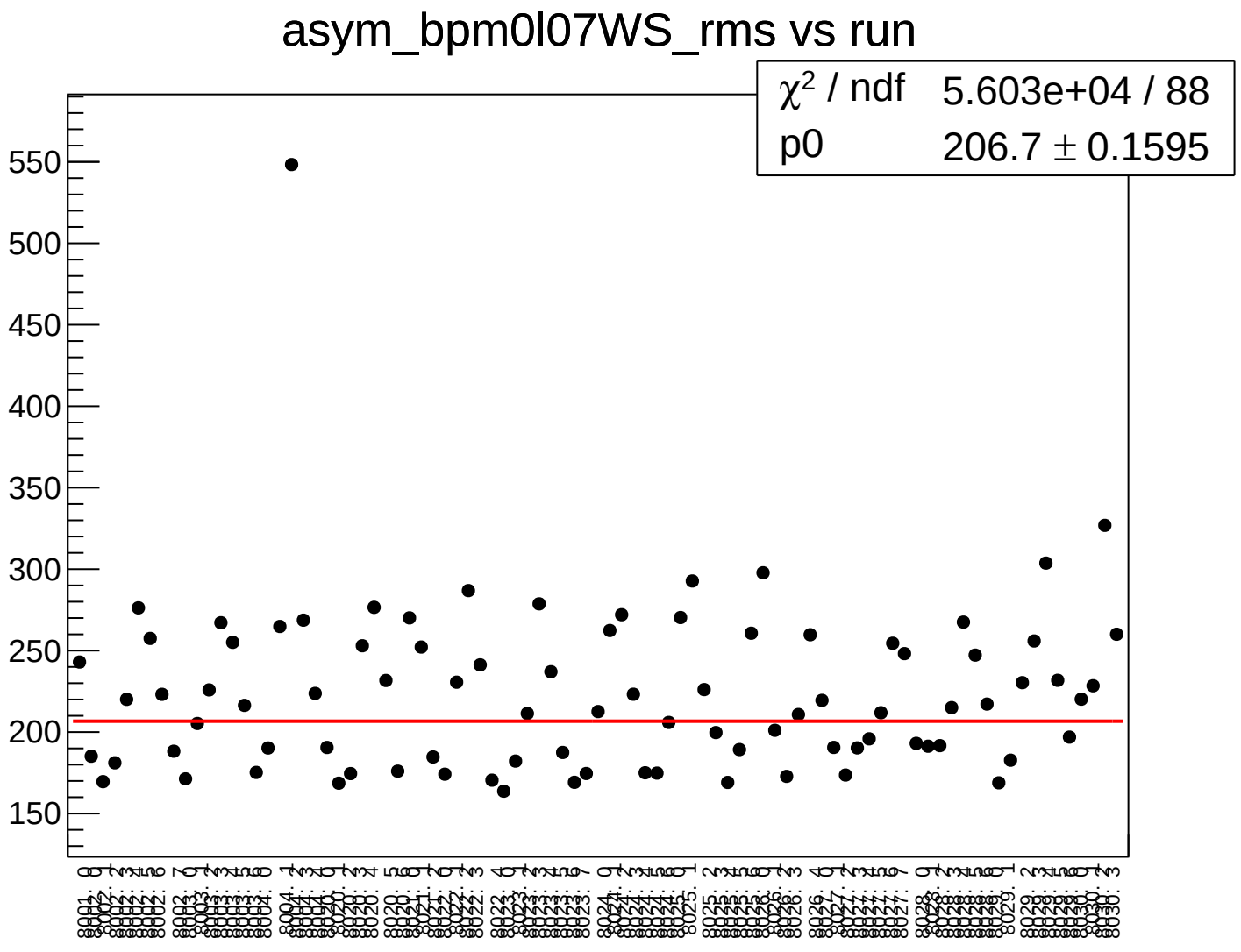

asym_bpm0l06WS_mean vs run
×10^3
χ^2 / ndf 105.7 / 88
p0 −1828 ± 3384
100
50
0
−50
−100
pull
Entries 89
Mean 124.1
Std Dev 21.05
2
1
0
−1
−2
−3

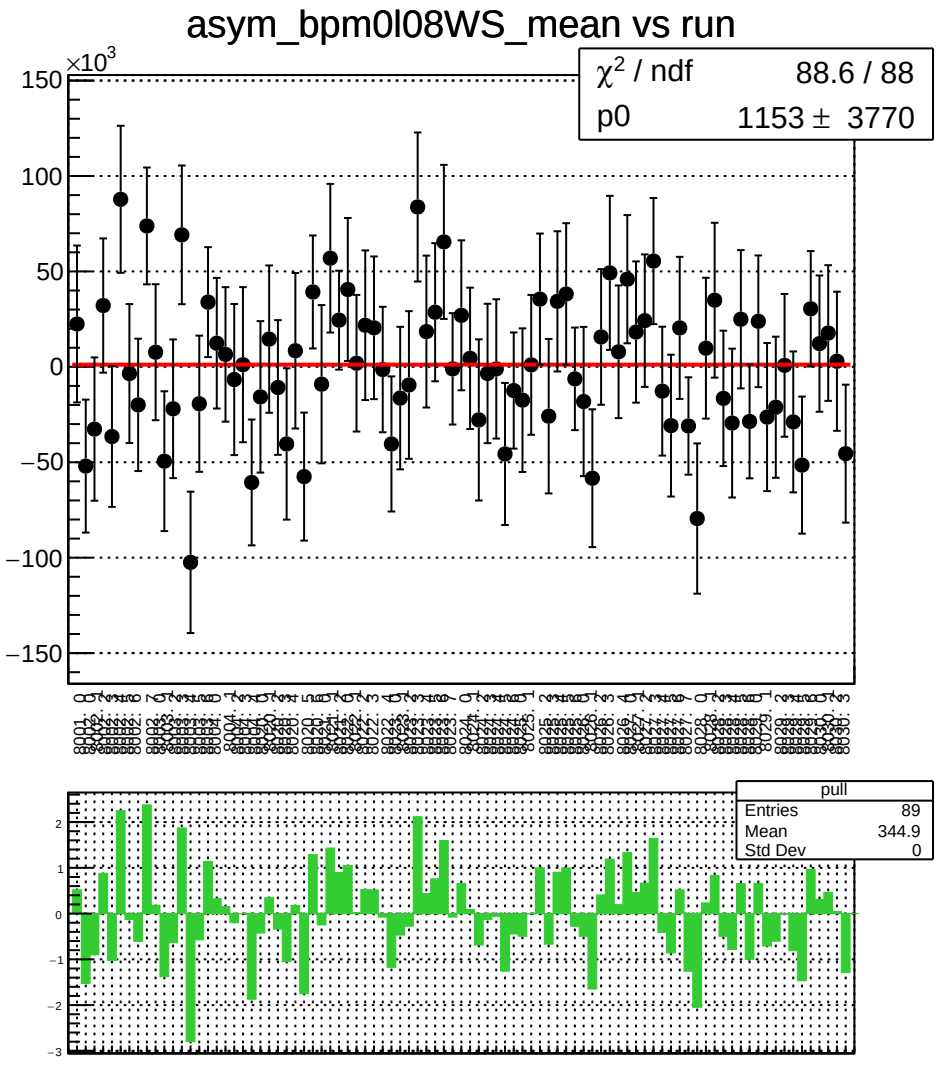

pull1D
Entries 89
Mean −0.01236
Std Dev 1.09
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

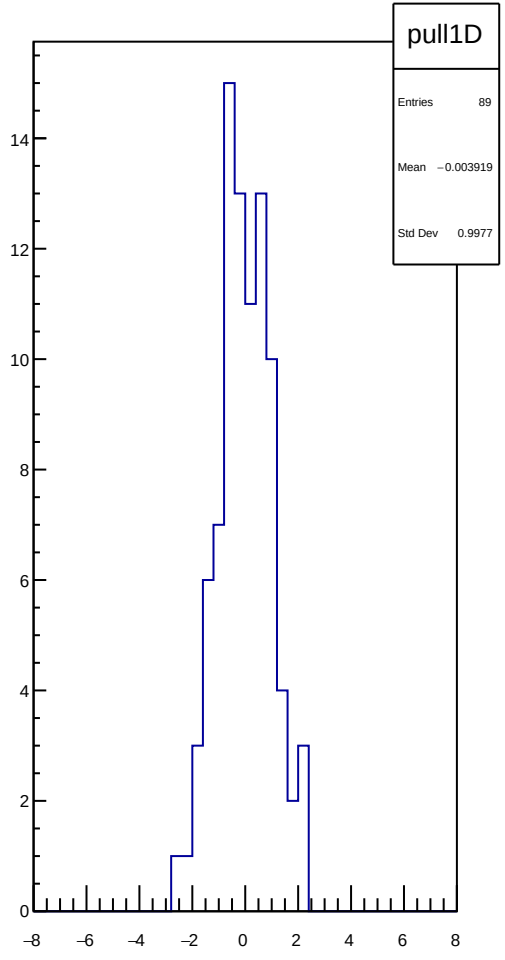

asym_bpm0l06WS_rms vs run
χ² / ndf 3.185e+04 / 88
p0 3123 ± 2.393
4000
3500
3000
2500
2000

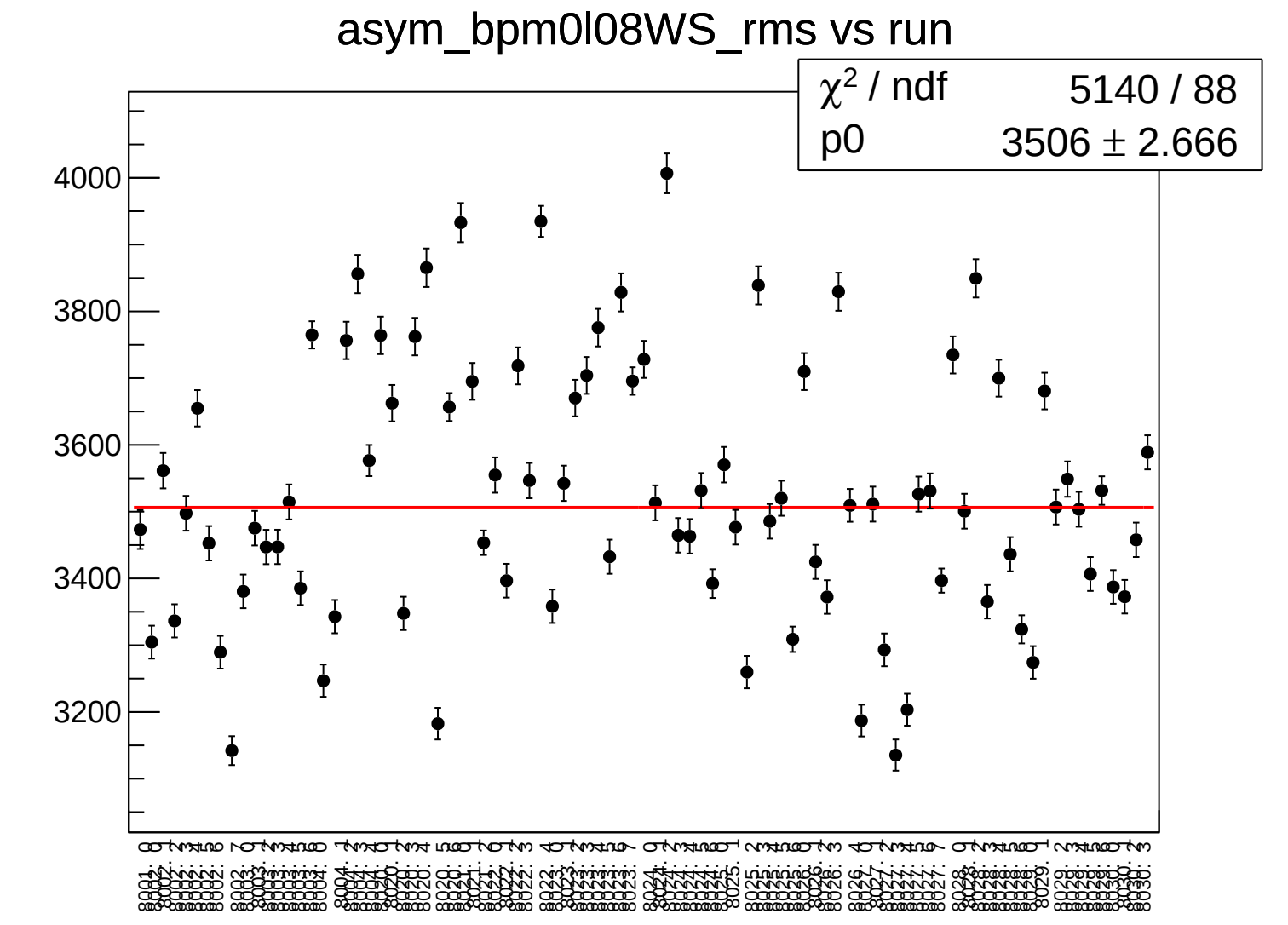

asym_bpm0l07WS_mean vs run
χ² / ndf 1884 / 88
p0 −2761 ± 225.6
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −1073
Std Dev 0
10
5
0
−5
−10

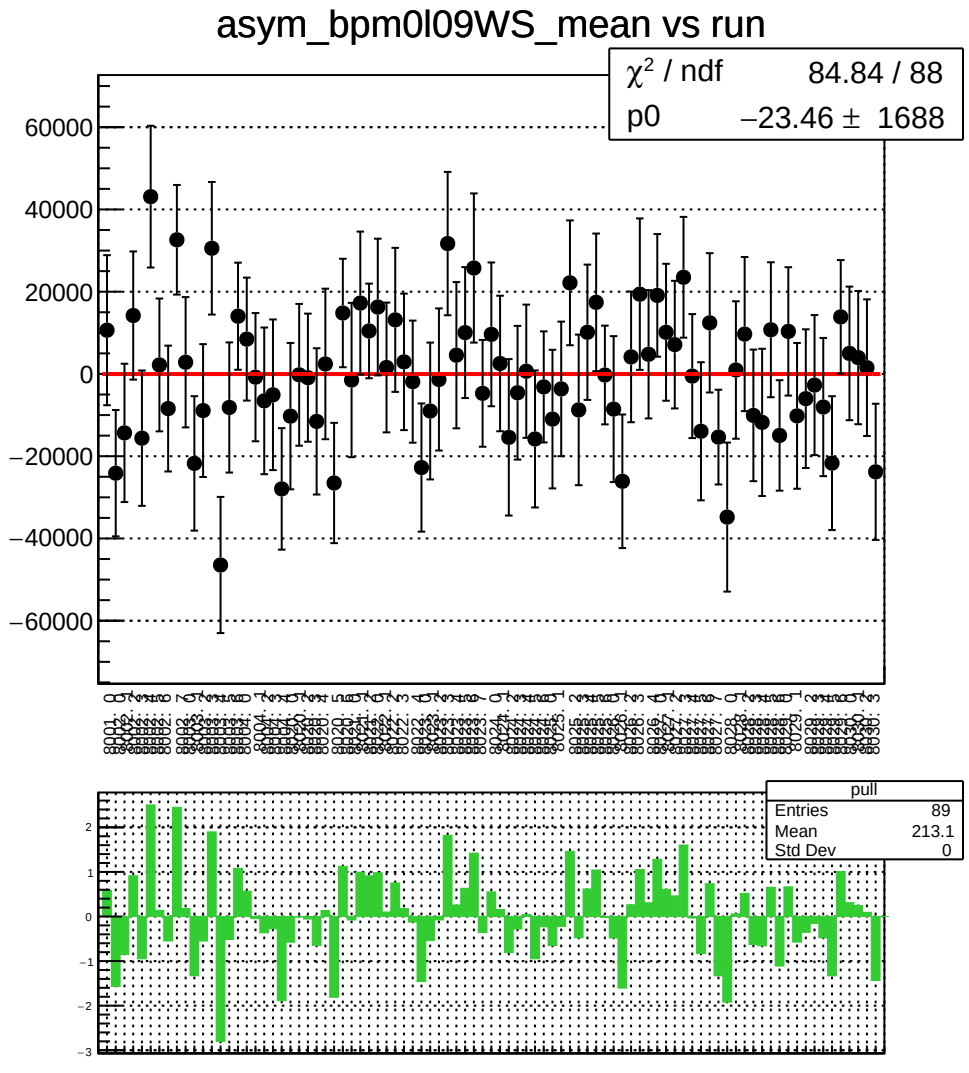

pull1D
Entries 89
Mean 0.05142
Std Dev 4.2
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

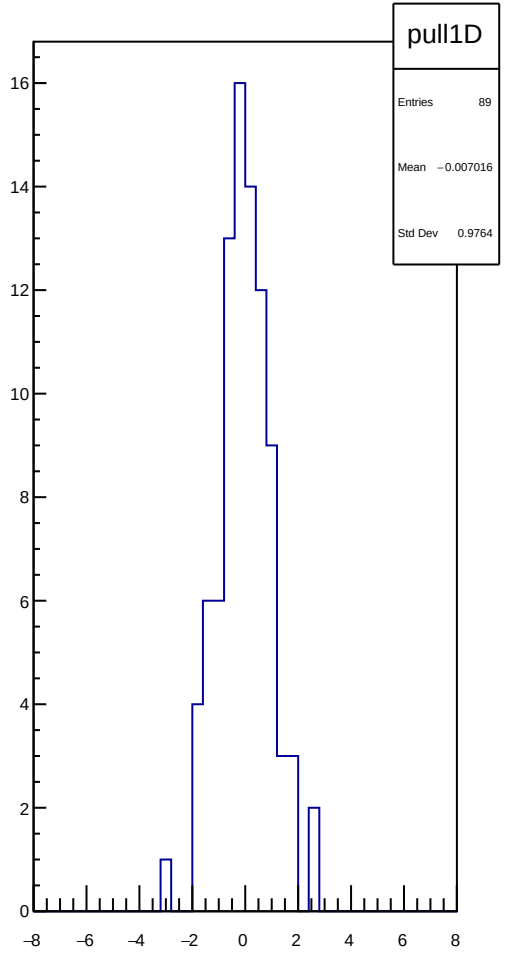

asym_bpm0l07WS_rms vs run
χ^2 / ndf 5.603e+04 / 88
p0 206.7 ± 0.1595
550
500
450
400
350
300
250
200
150

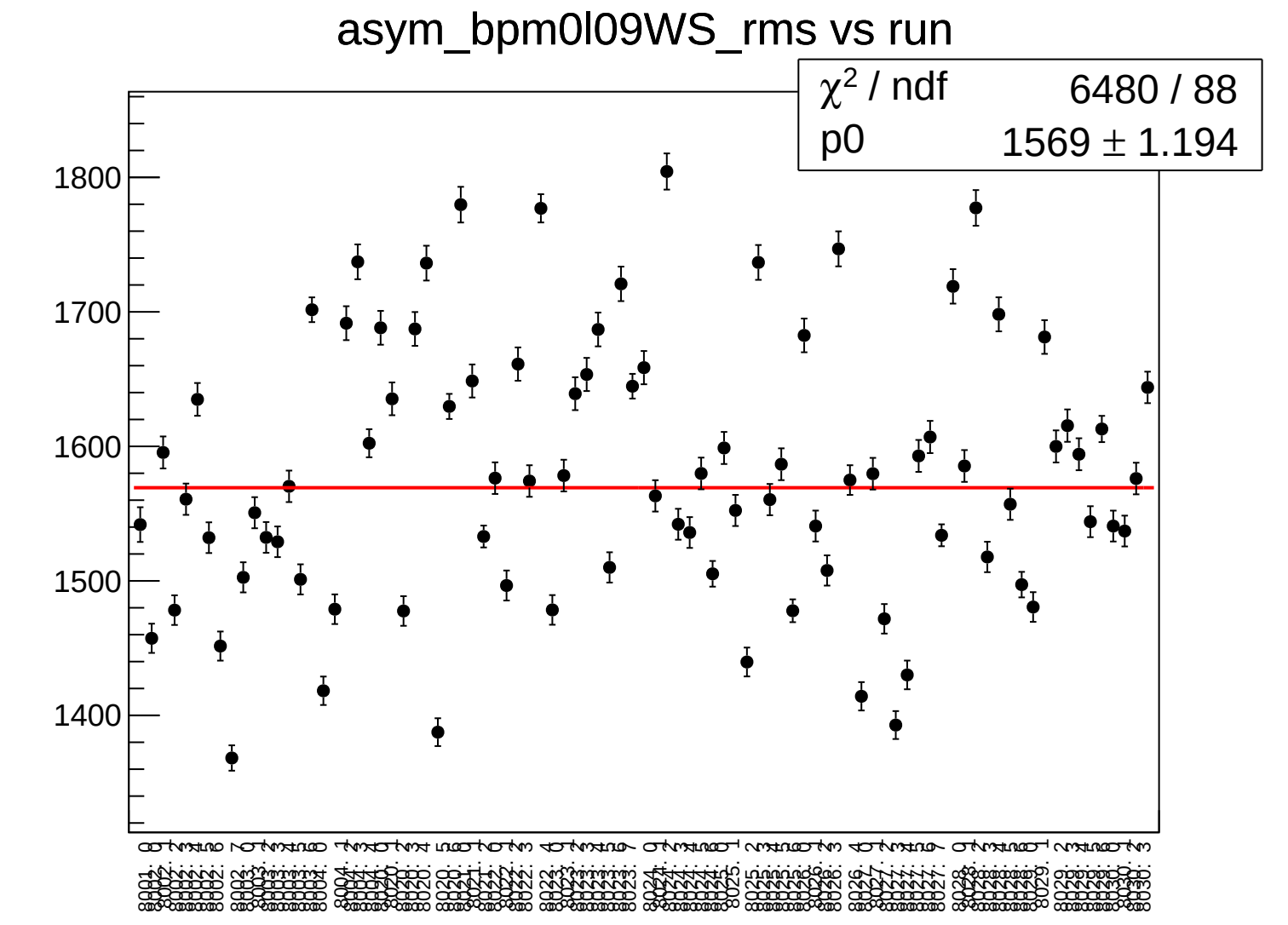

asym_bpm0l08WS_mean vs run
×10^3
χ^2 / ndf 88.6 / 88
p0 1153 ± 3770
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean 344.9
Std Dev 0
2
1
0
−1
−2
−3

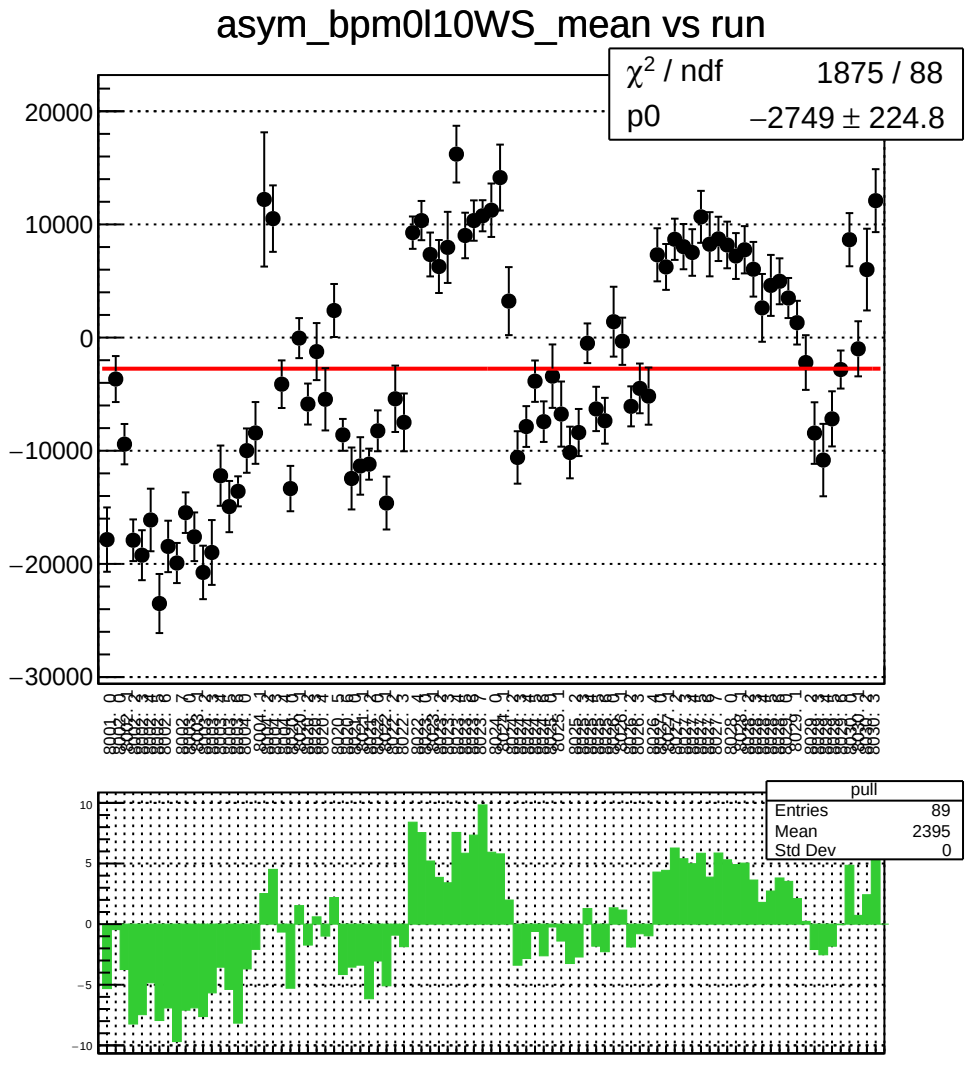

pull1D
Entries 89
Mean −0.003919
Std Dev 0.9977
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

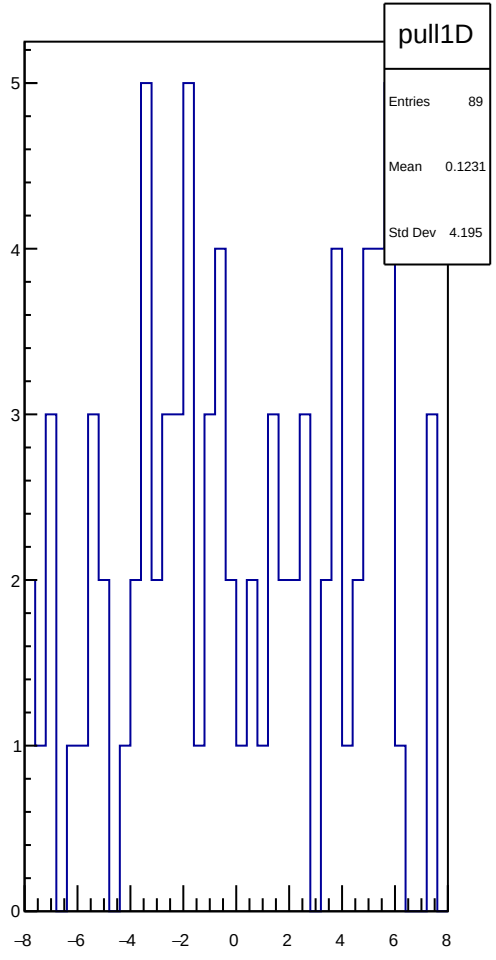

asym_bpm0l08WS_rms vs run
χ² / ndf 5140 / 88
p0 3506 ± 2.666
4000
3800
3600
3400
3200

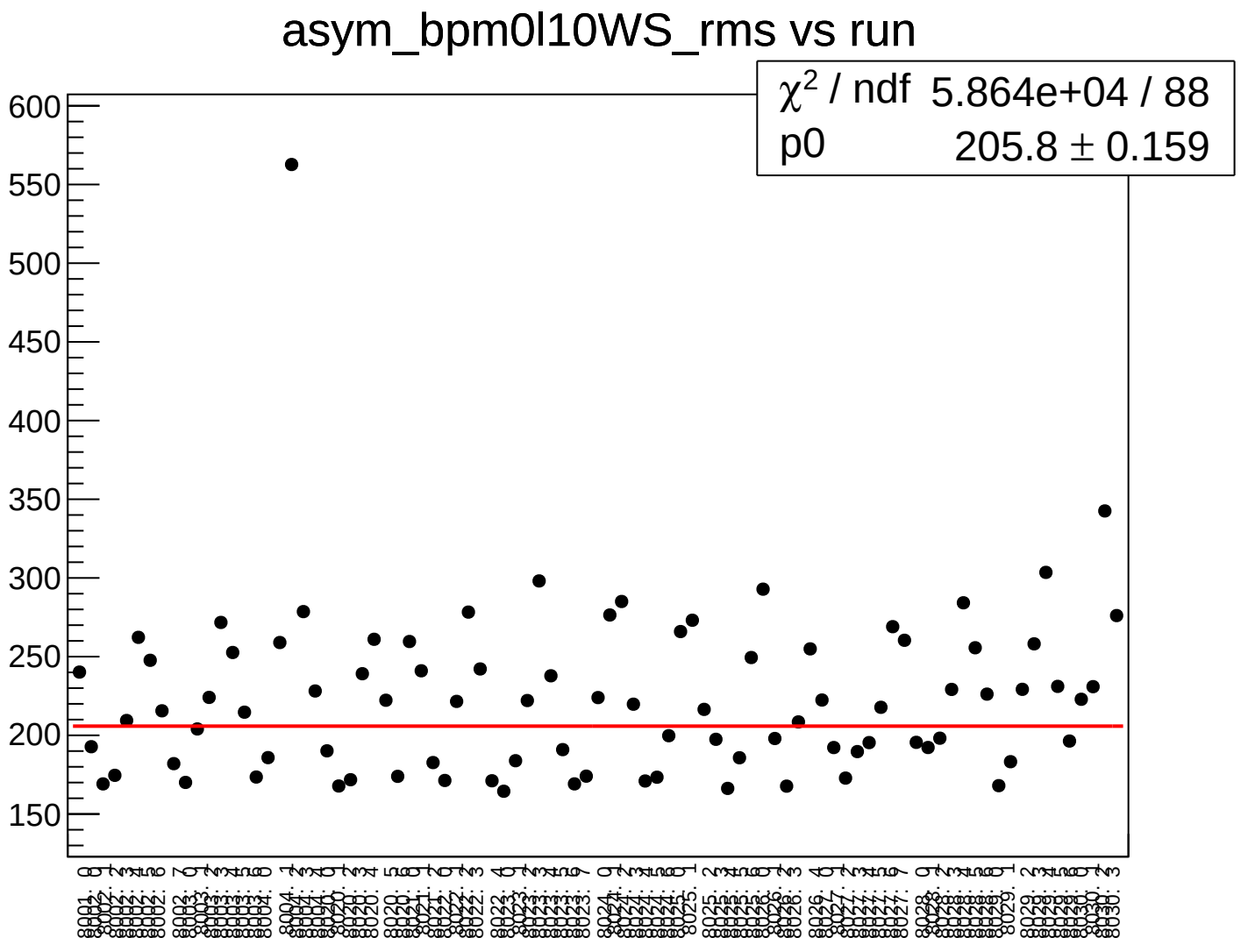

asym_bpm0l09WS_mean vs run
χ² / ndf 84.84 / 88
p0 −23.46 ± 1688
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 213.1
Std Dev 0
2
1
0
−1
−2
−3

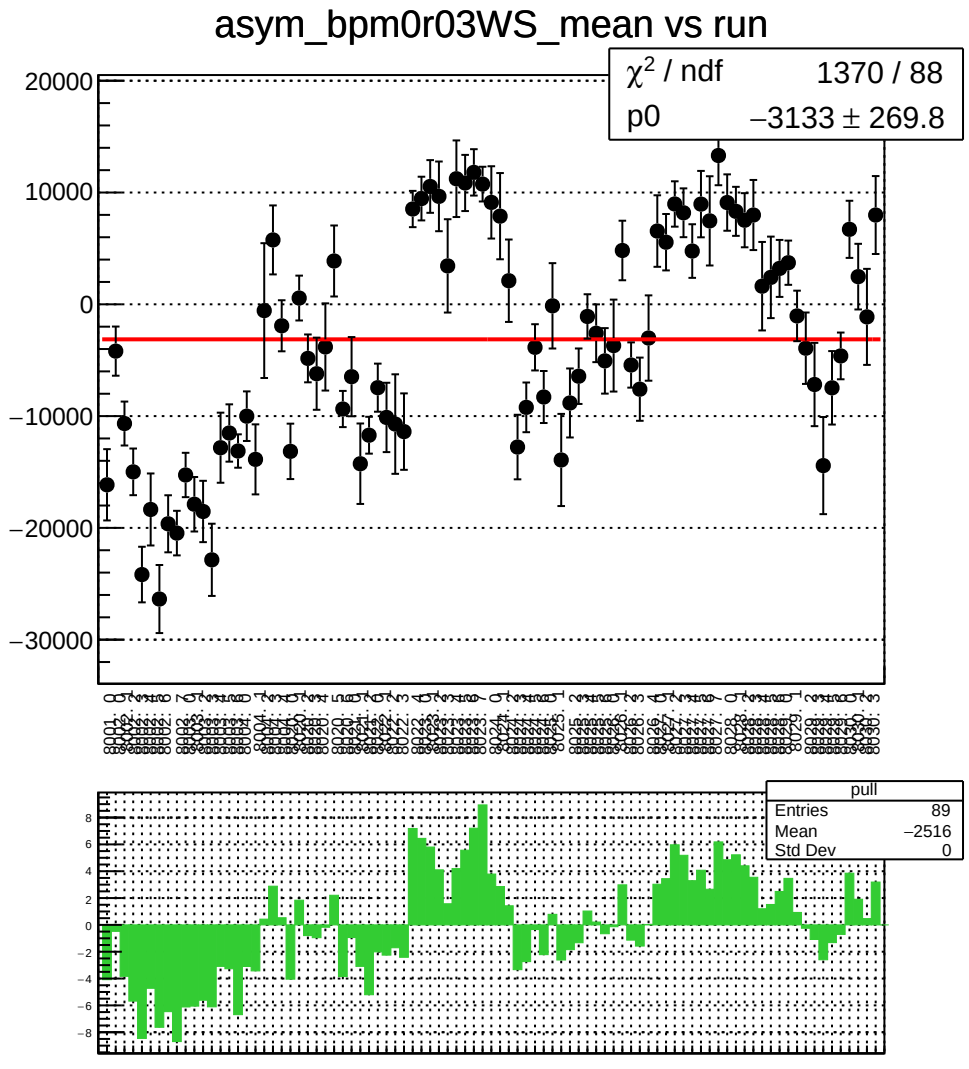

pull1D
Entries 89
Mean −0.007016
Std Dev 0.9764
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

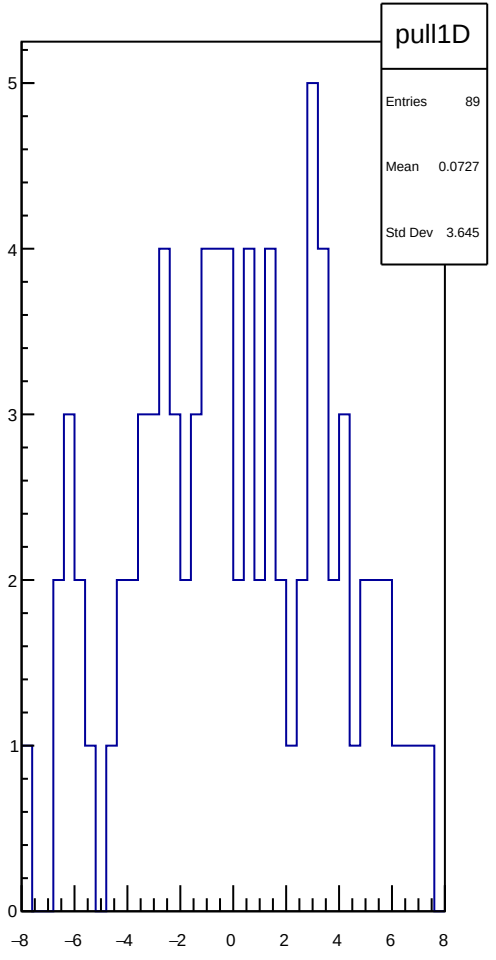

asym_bpm0l09WS_rms vs run
χ^2 / ndf 6480 / 88
p0 1569 ± 1.194
1800
1700
1600
1500
1400

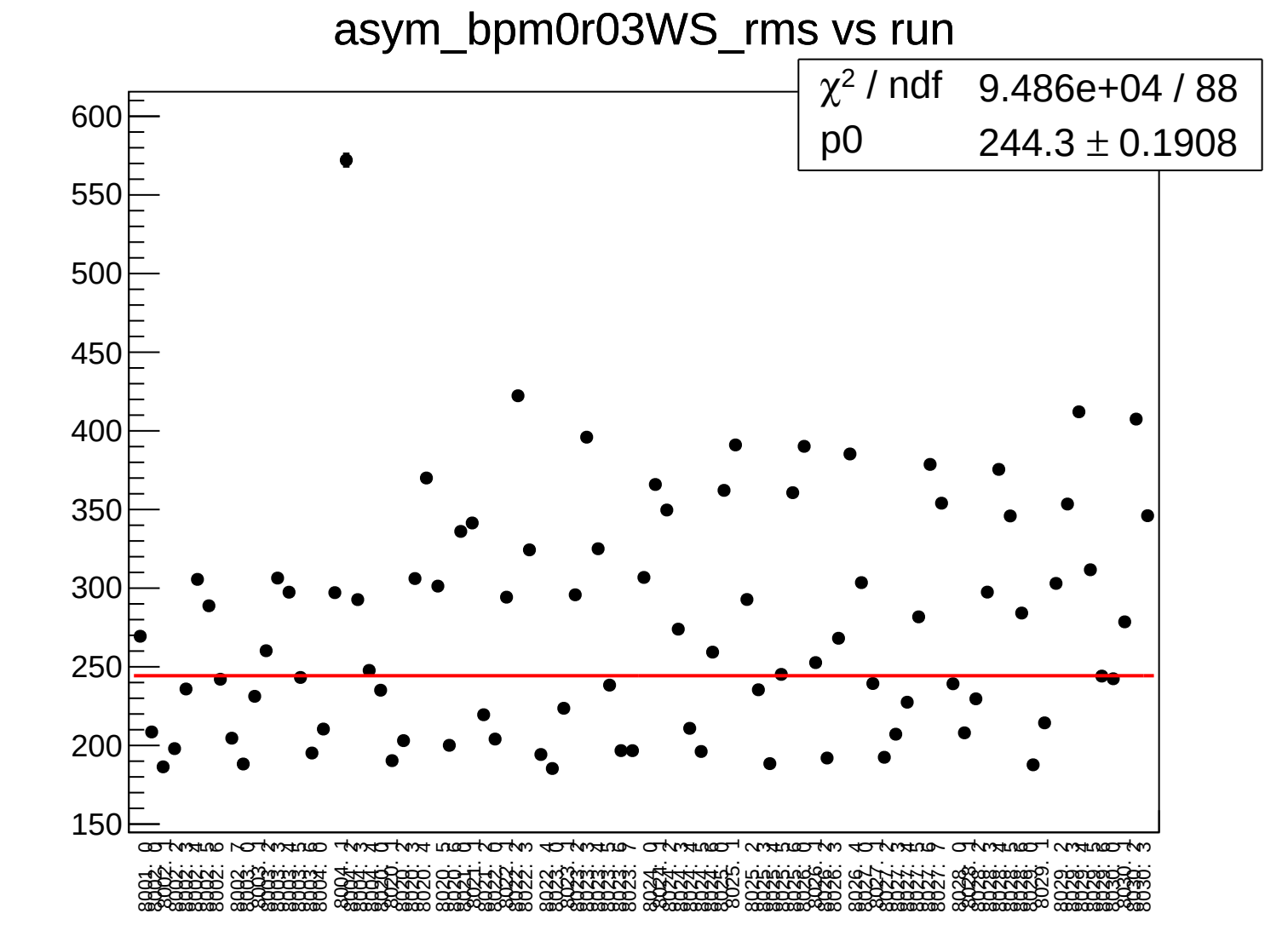

asym_bpm0l10WS_mean vs run
χ² / ndf 1875 / 88
p0 −2749 ± 224.8
pull
Entries 89
Mean 2395
Std Dev 0

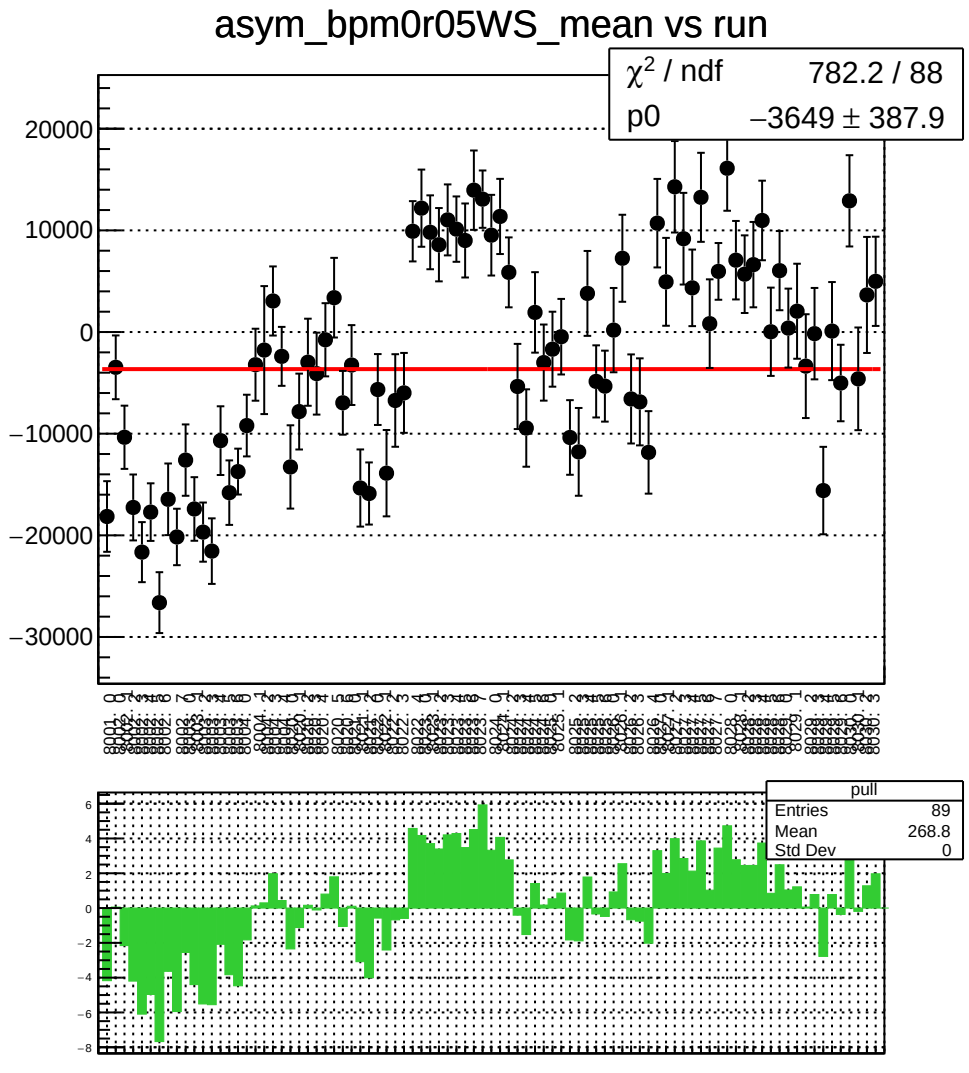

pull1D
Entries 89
Mean 0.1231
Std Dev 4.195

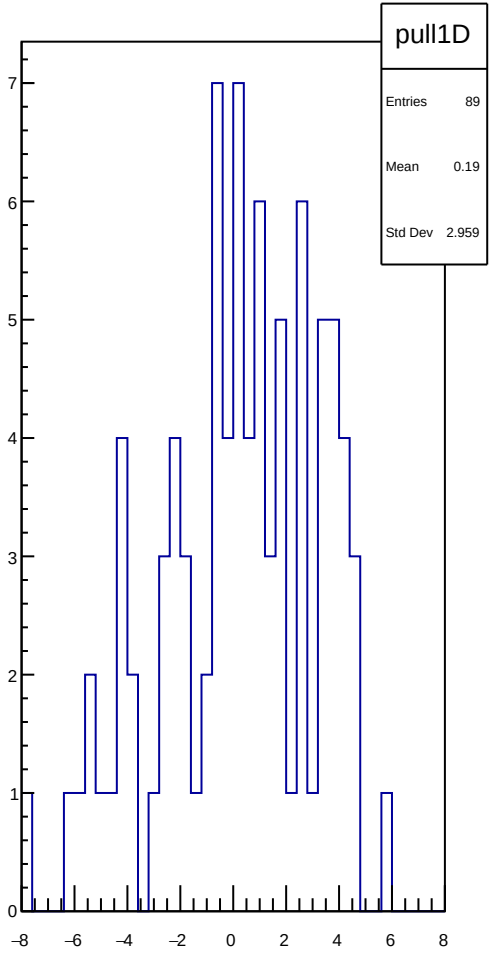

asym_bpm0l10WS_rms vs run
χ^2 / ndf 5.864e+04 / 88
p0 205.8 ± 0.159
600
550
500
450
400
350
300
250
200
150

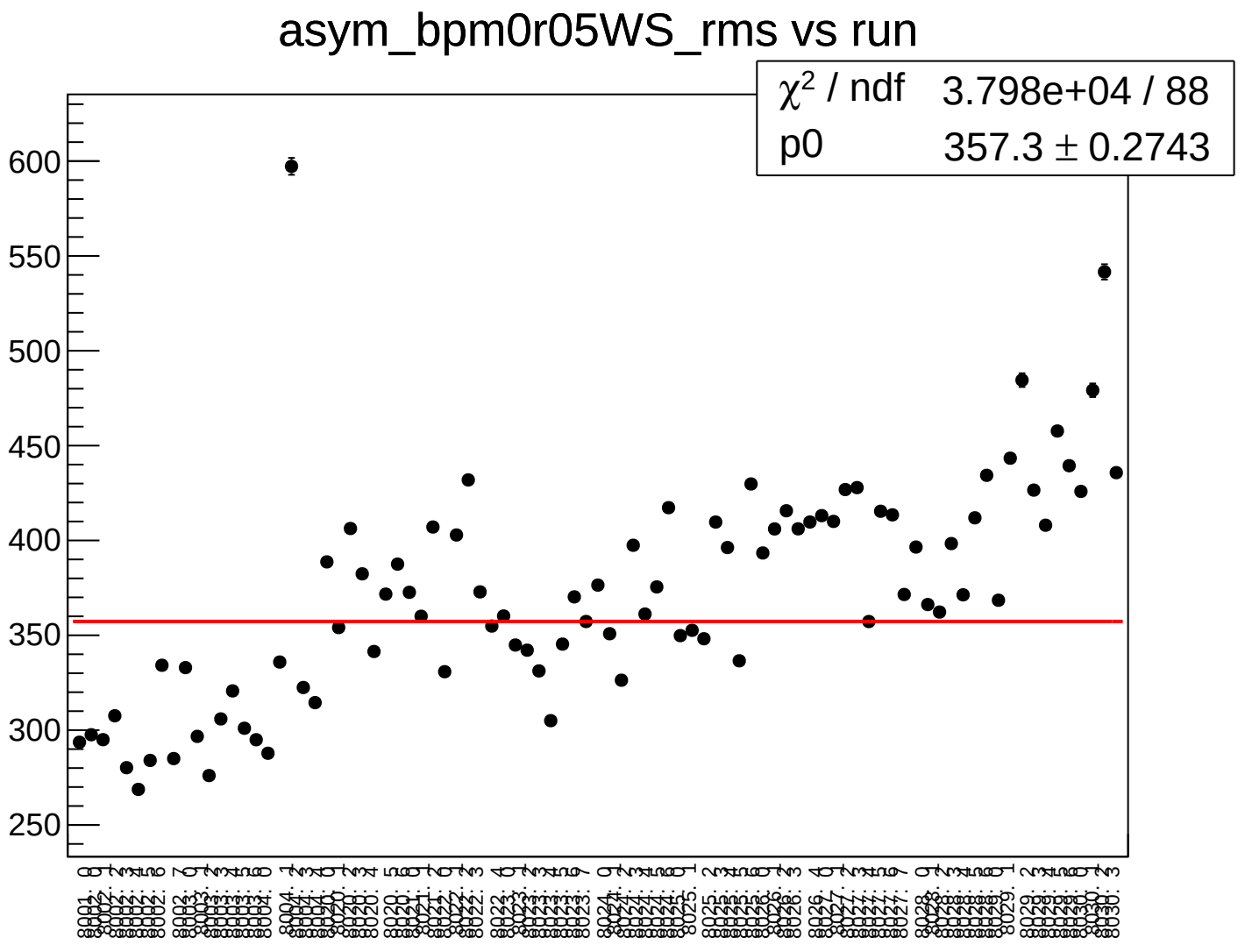

asym_bpm0r03WS_mean vs run
χ² / ndf 1370 / 88
p0 −3133 ± 269.8
pull
Entries 89
Mean −2516
Std Dev 0

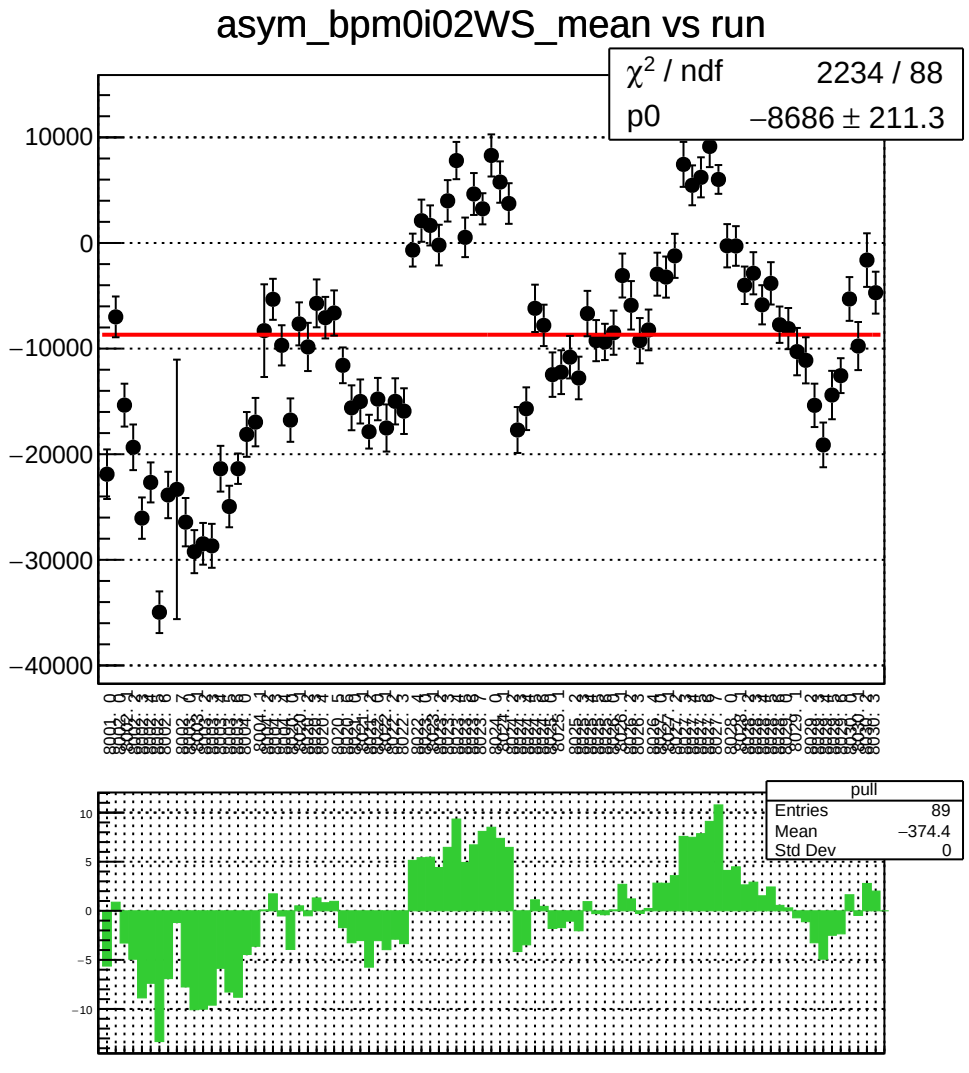

pull1D
Entries 89
Mean 0.0727
Std Dev 3.645

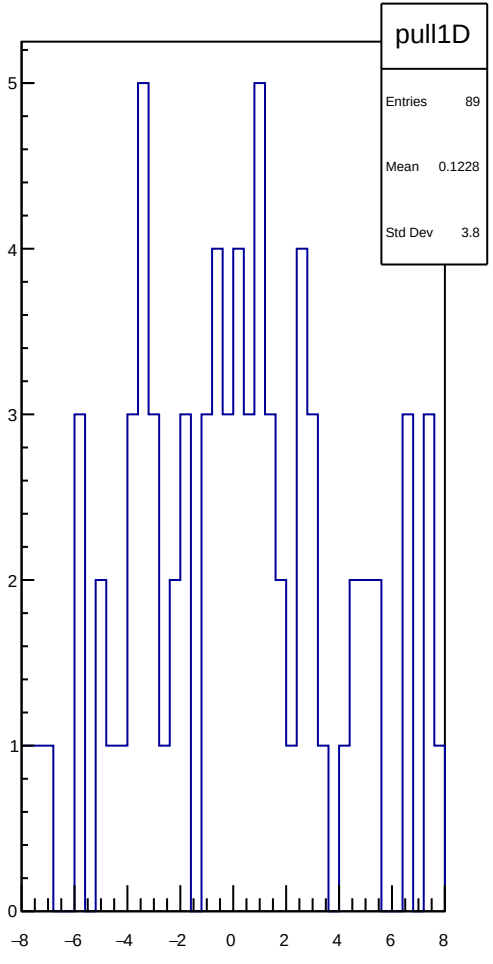

asym_bpm0r03WS_rms vs run
χ^2 / ndf 9.486e+04 / 88
p0 244.3 ± 0.1908
600
550
500
450
400
350
300
250
200
150

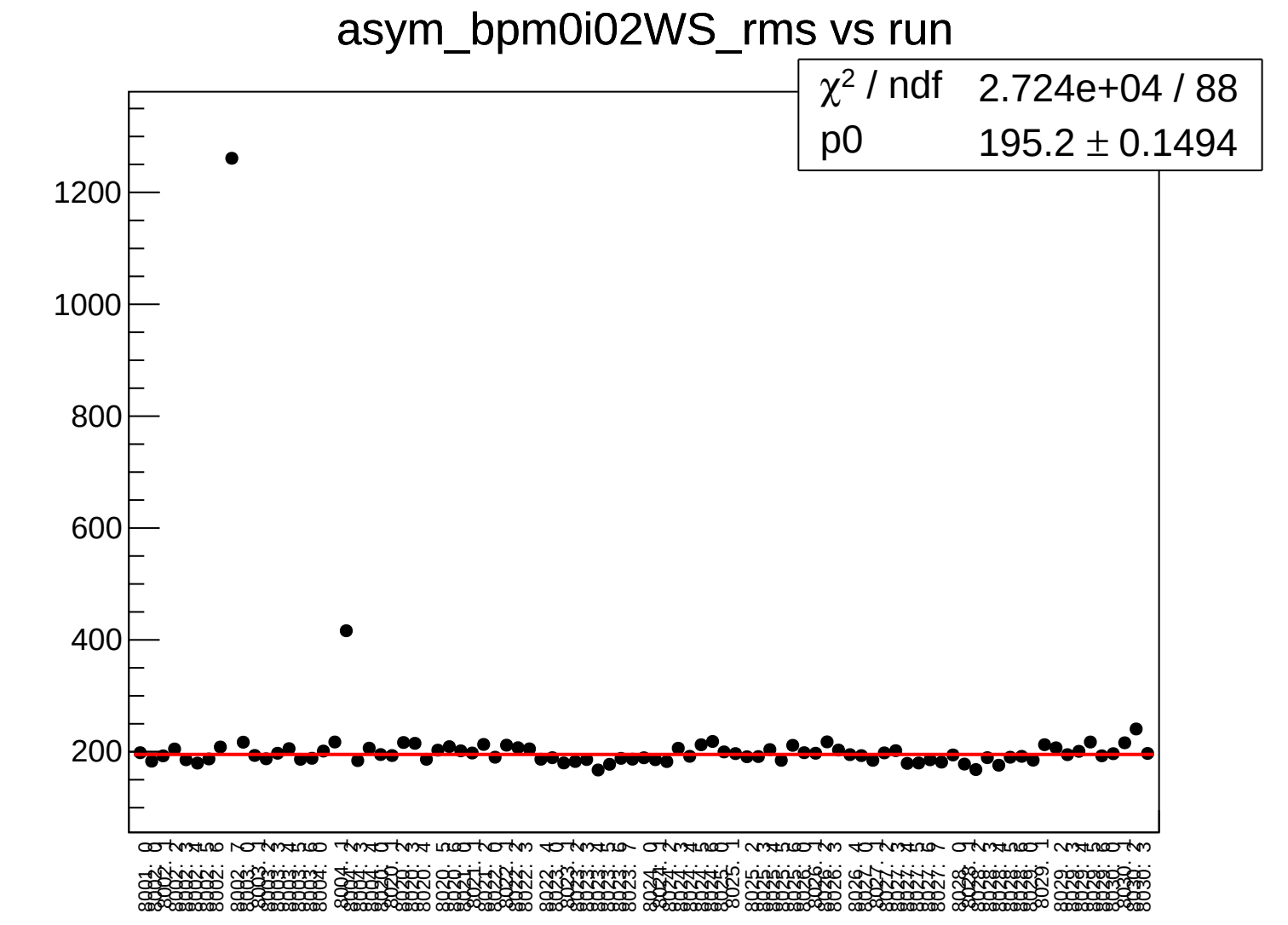

asym_bpm0r05WS_mean vs run
χ² / ndf 782.2 / 88
p0 −3649 ± 387.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 268.8
Std Dev 0
6
4
2
0
−2
−4
−6
−8

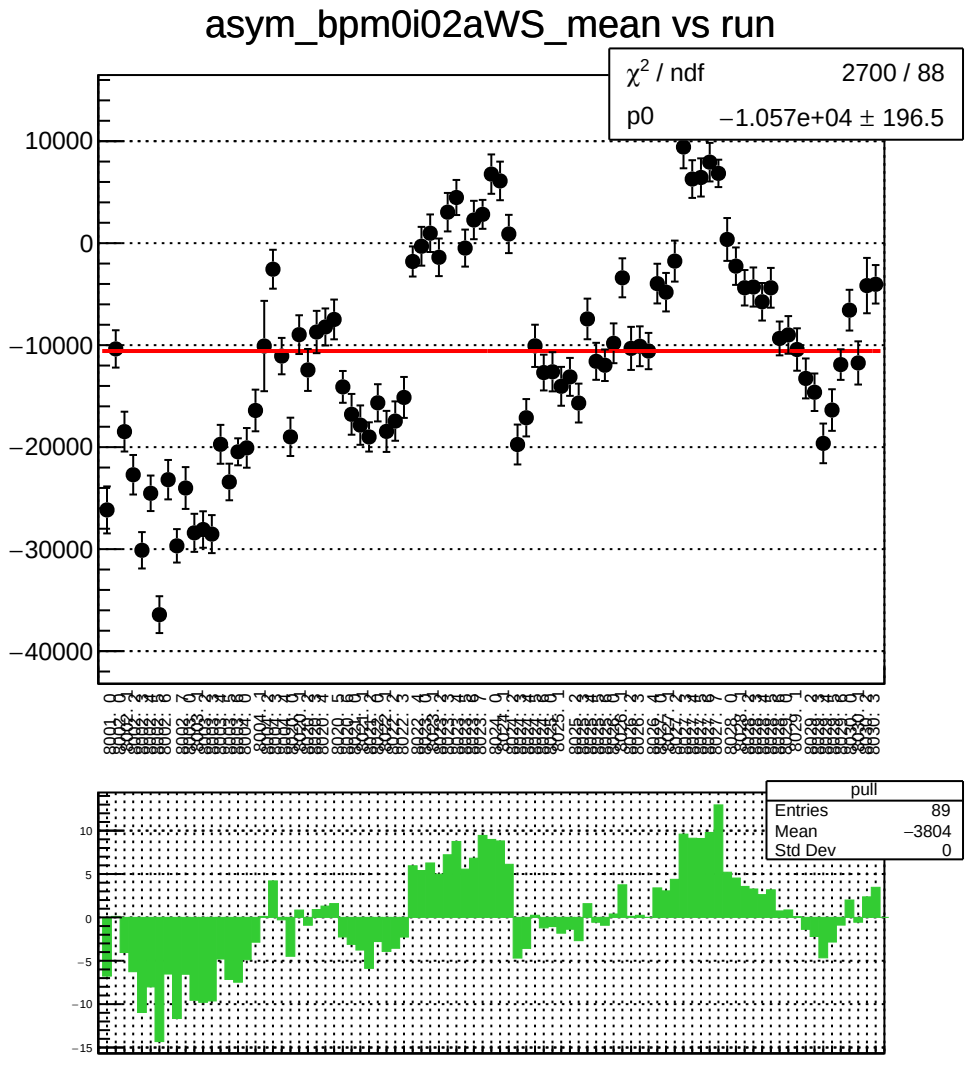

pull1D
Entries 89
Mean 0.19
Std Dev 2.959
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

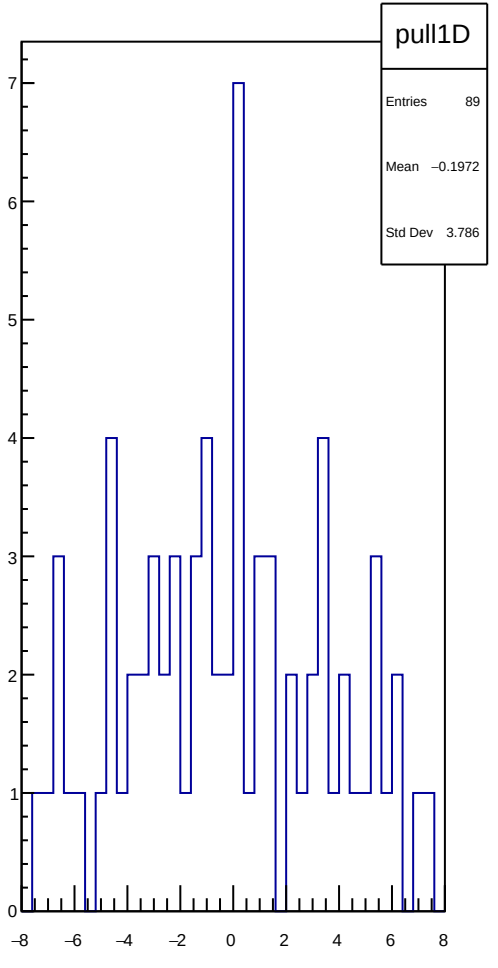

asym_bpm0r05WS_rms vs run
χ² / ndf 3.798e+04 / 88
p0 357.3 ± 0.2743
600
550
500
450
400
350
300
250

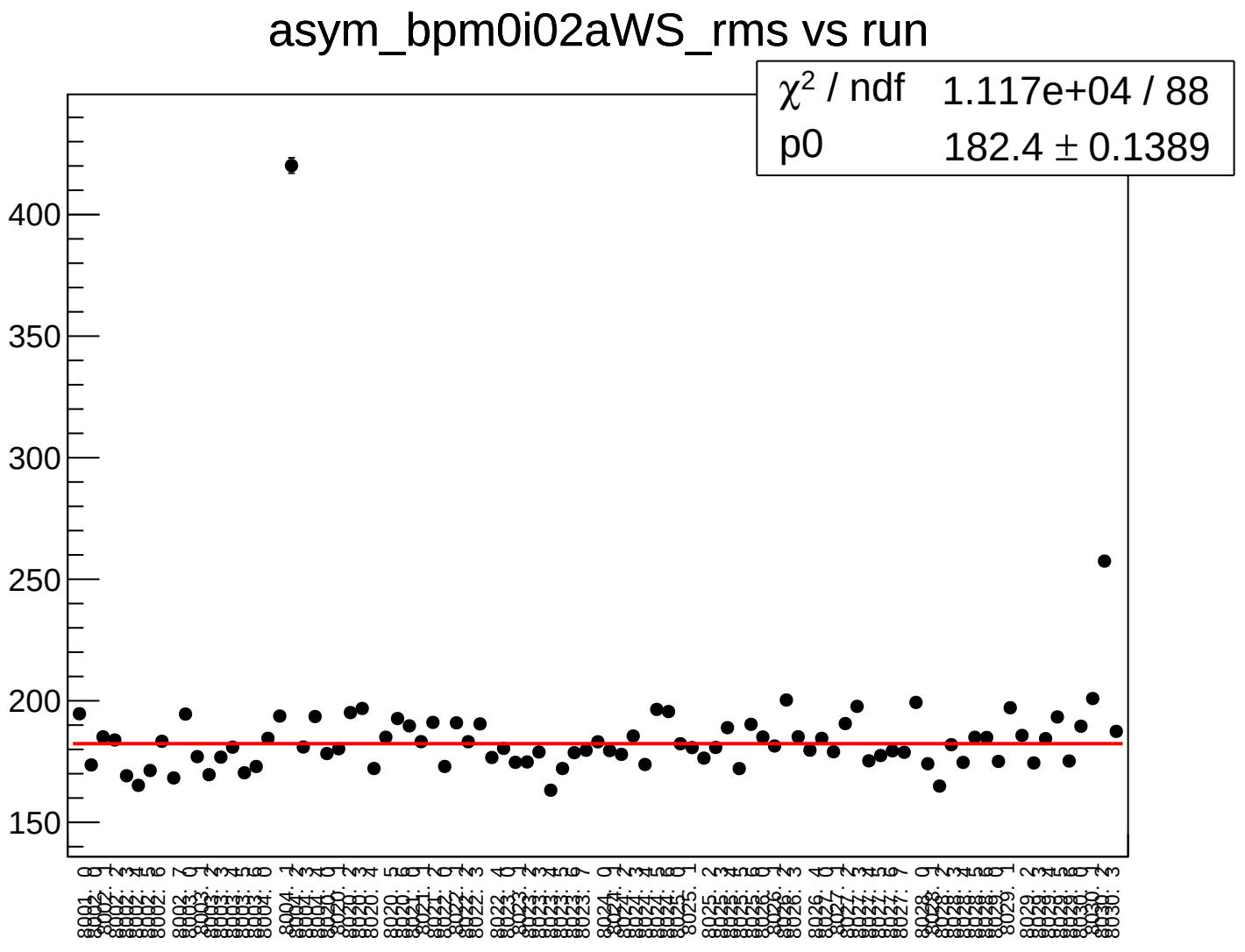

asym_bpm0i02WS_mean vs run
χ² / ndf 2234 / 88
p0 −8686 ± 211.3
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean −374.4
Std Dev 0
10
5
0
−5
−10

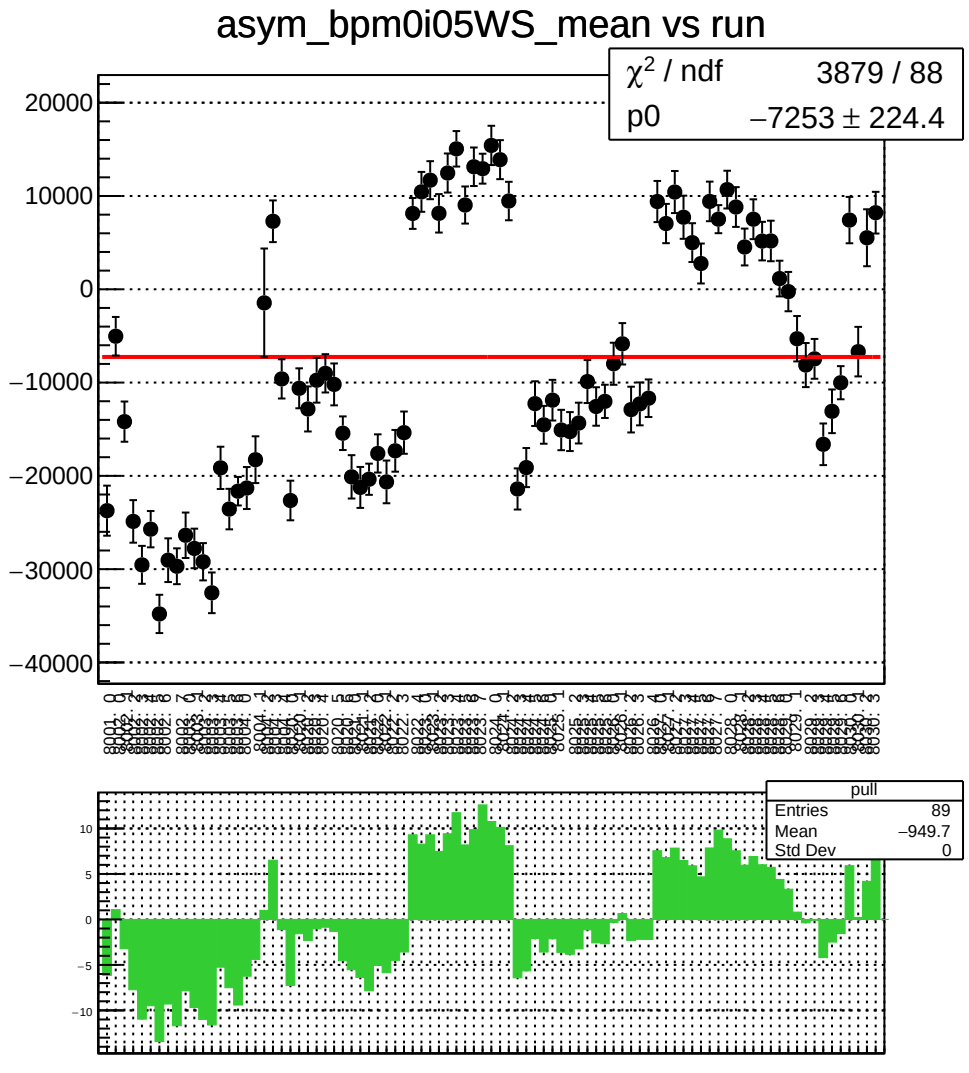

pull1D
Entries 89
Mean 0.1228
Std Dev 3.8
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

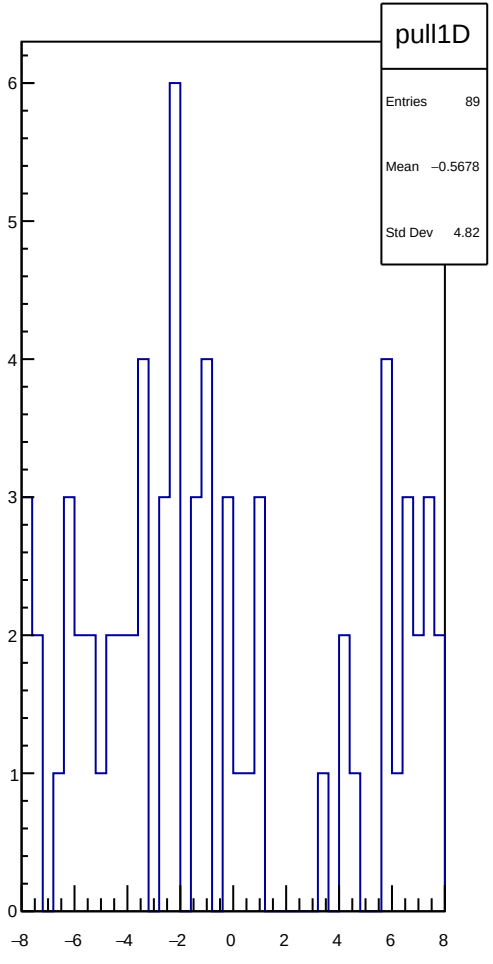

asym_bpm0i02WS_rms vs run
χ² / ndf 2.724e+04 / 88
p0 195.2 ± 0.1494
1200
1000
800
600
400
200

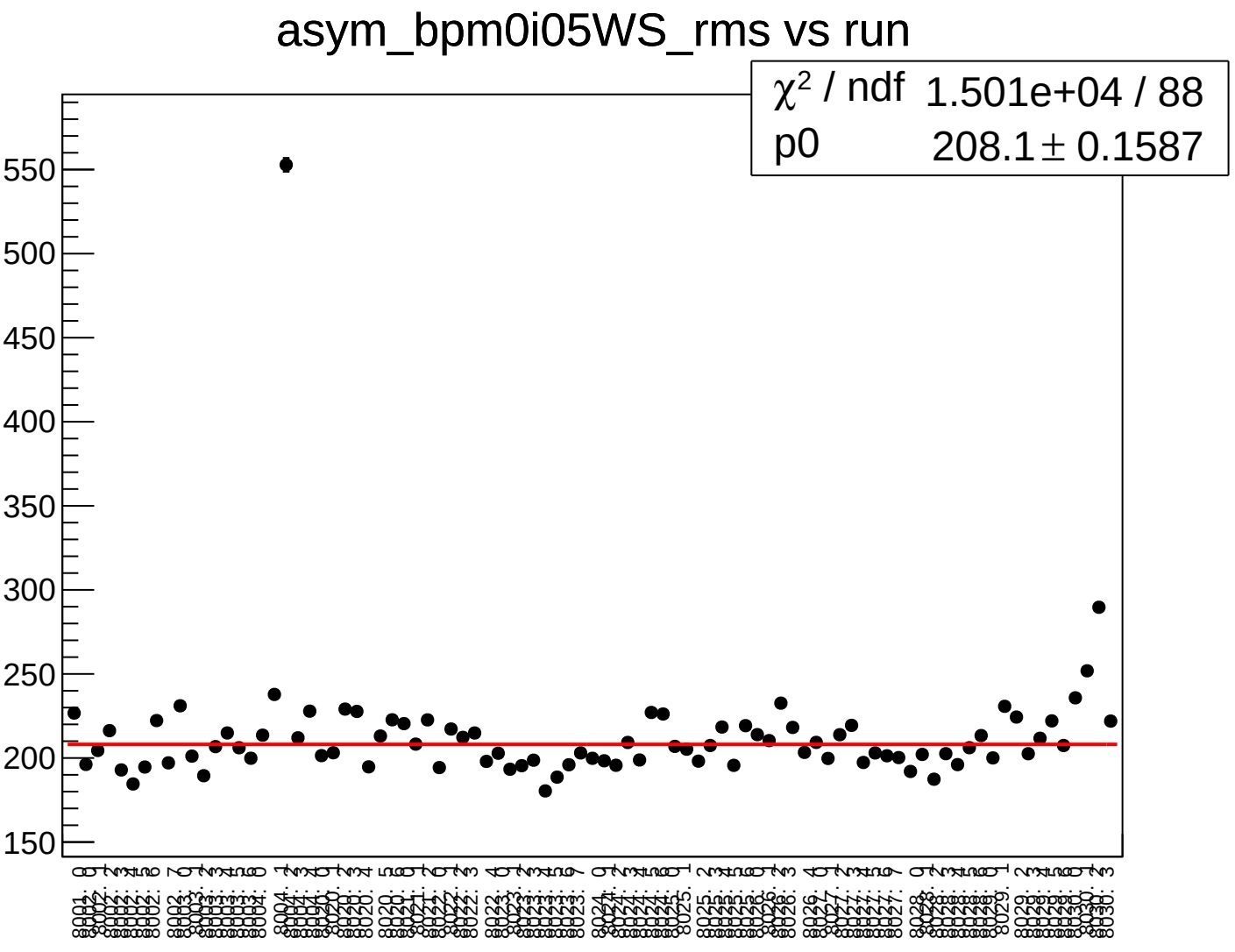

asym_bpm0i02aWS_mean vs run
χ² / ndf 2700 / 88
p0 −1.057e+04 ± 196.5
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean −3804
Std Dev 0
10
5
0
−5
−10
−15

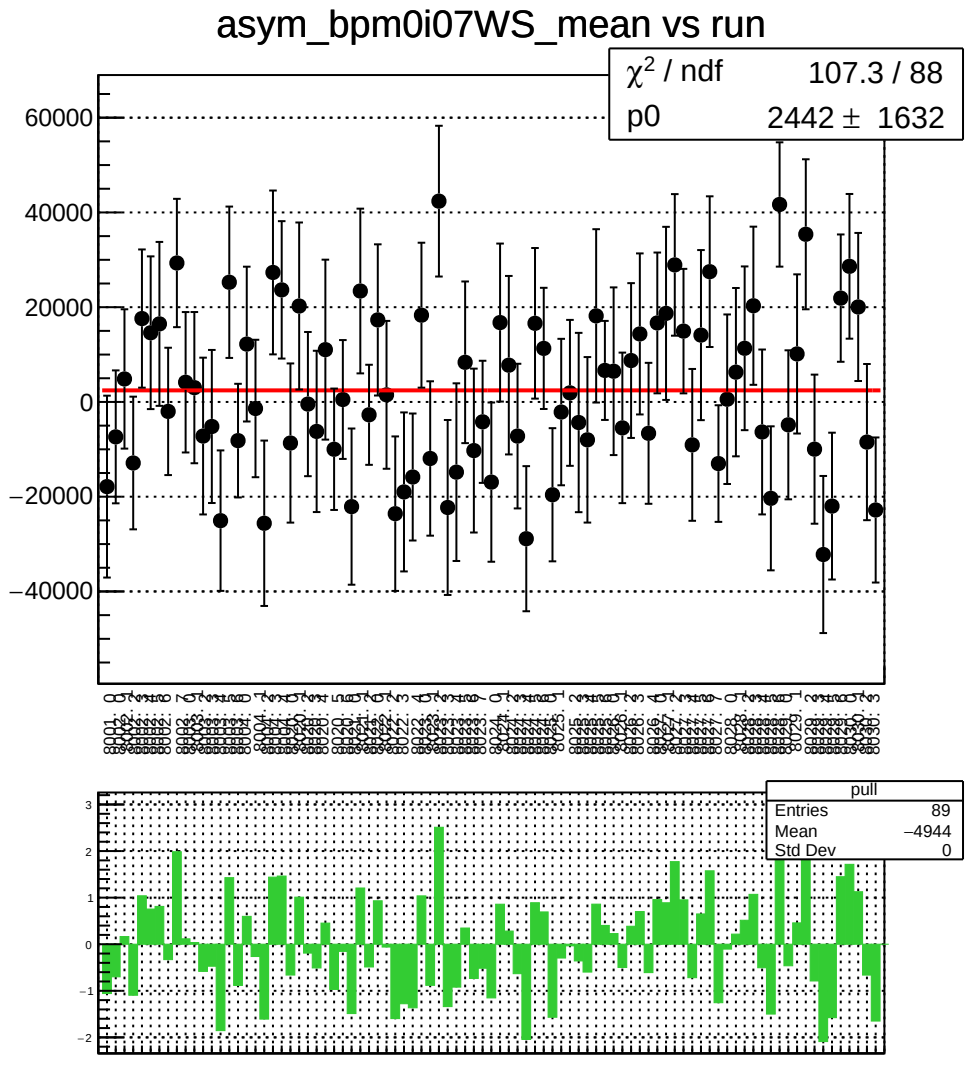

pull1D
Entries 89
Mean −0.1972
Std Dev 3.786
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

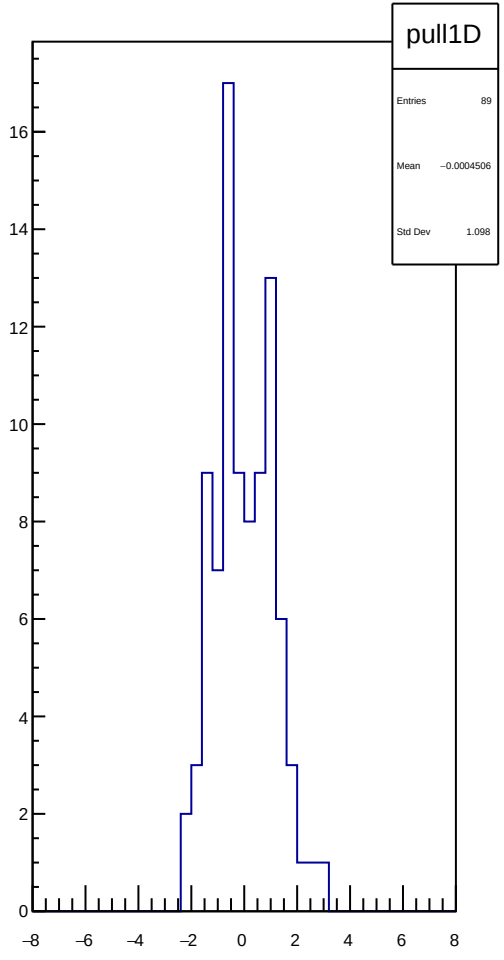

asym_bpm0i02aWS_rms vs run
χ² / ndf 1.117e+04 / 88
p0 182.4 ± 0.1389
400
350
300
250
200
150

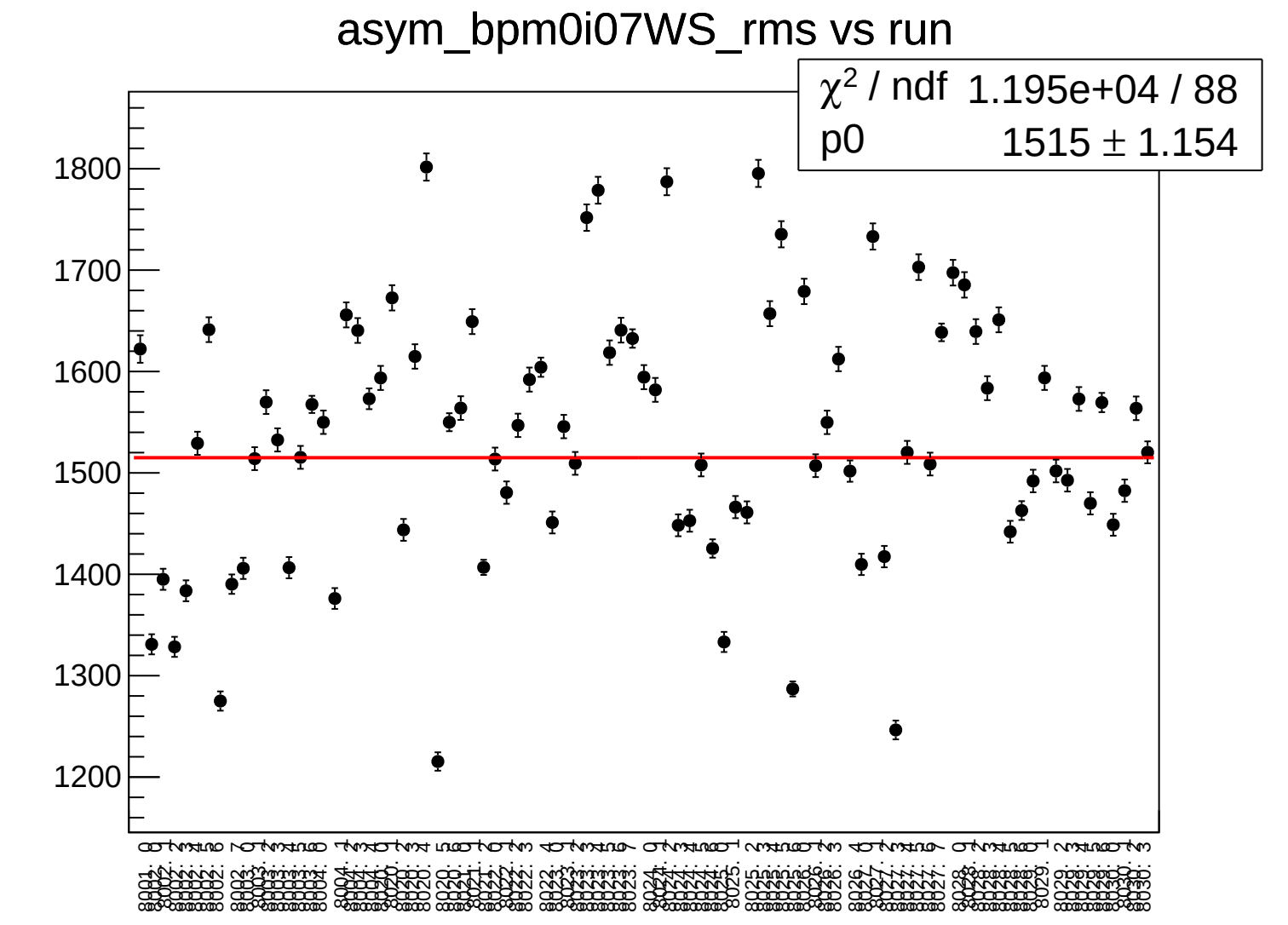

asym_bpm0i05WS_mean vs run
χ² / ndf 3879 / 88
p0 −7253 ± 224.4
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean −949.7
Std Dev 0
10
5
0
−5
−10

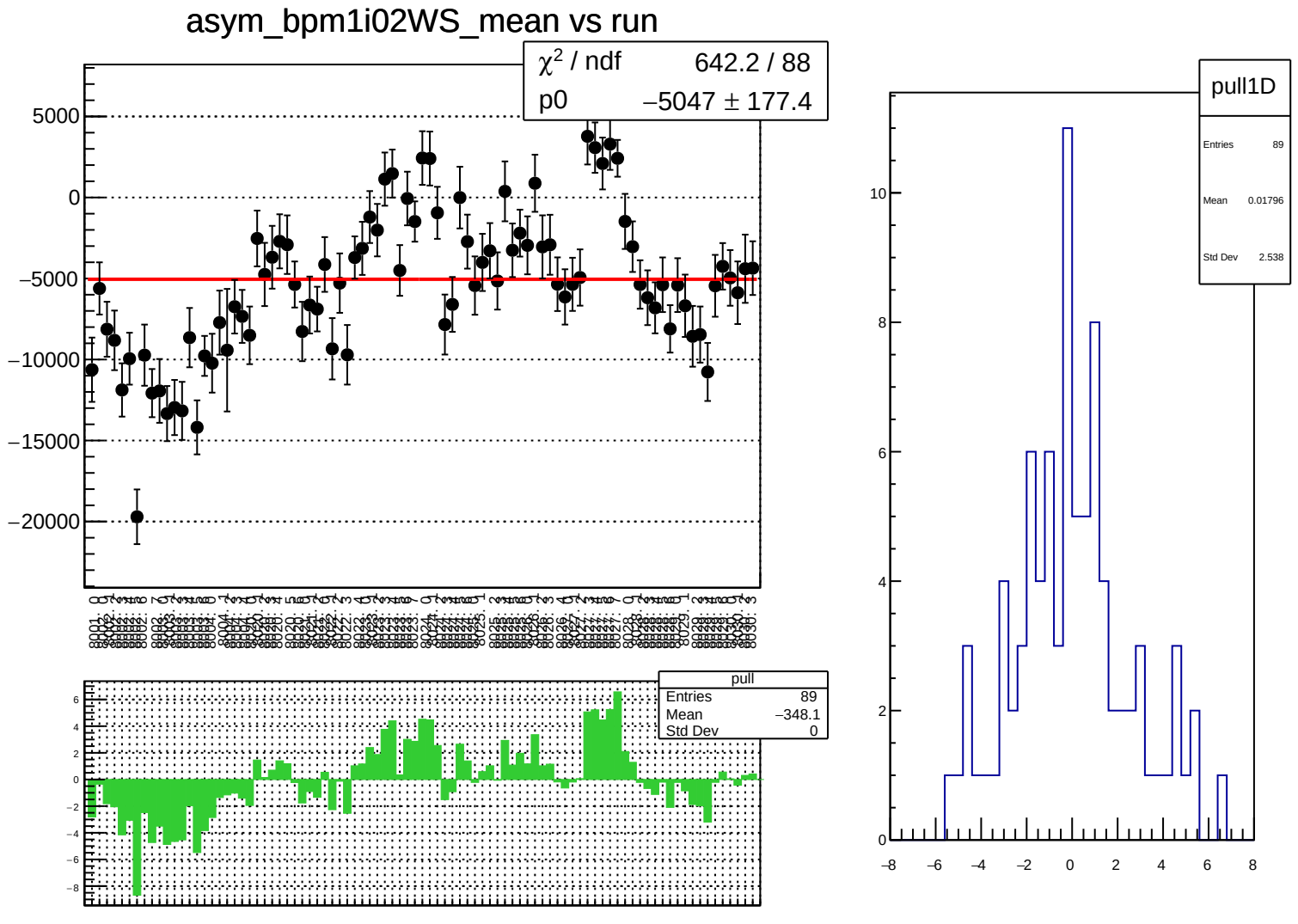

pull1D
Entries 89
Mean −0.5678
Std Dev 4.82
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

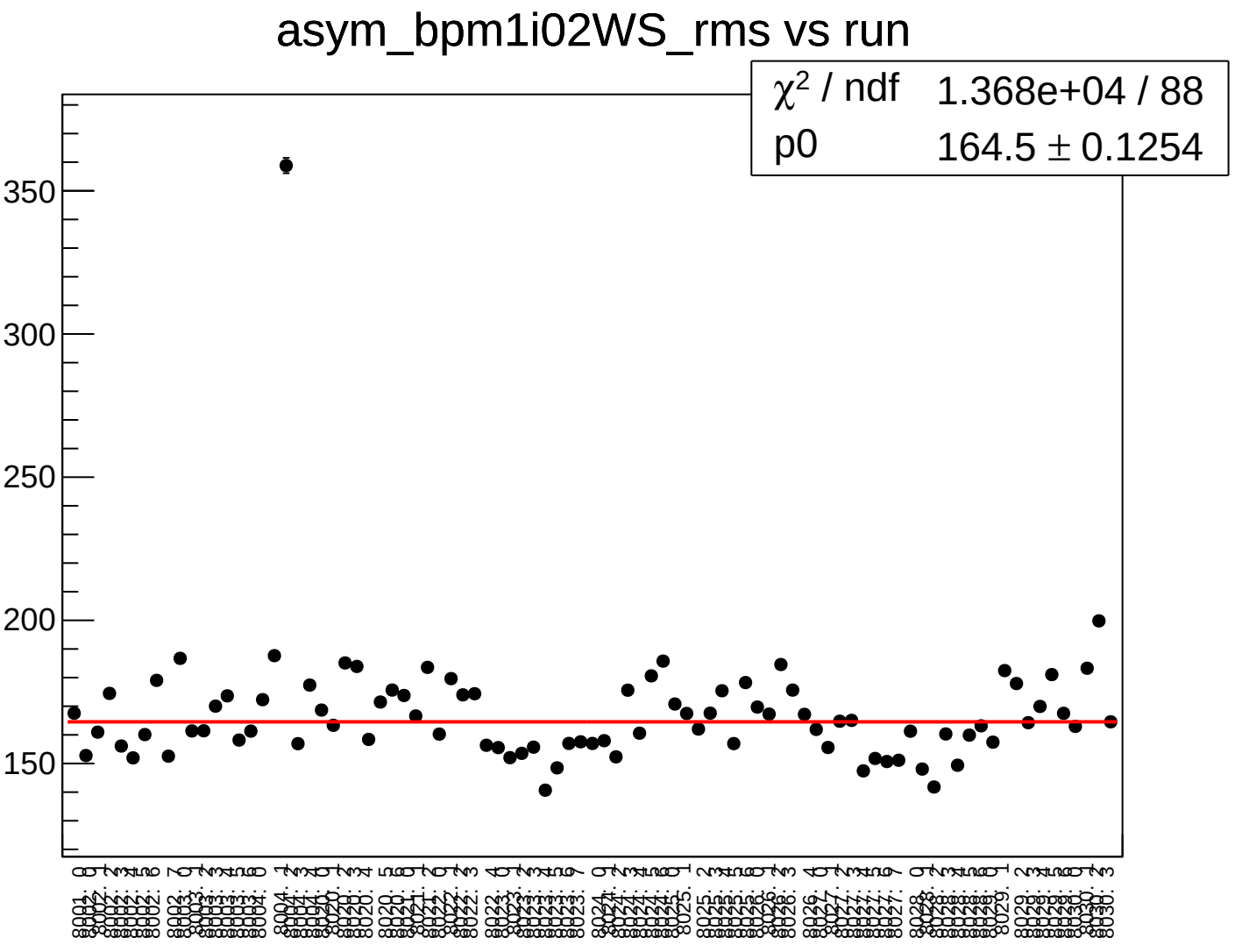

asym_bpm0i05WS_rms vs run
χ² / ndf 1.501e+04 / 88
p0 208.1 ± 0.1587
550
500
450
400
350
300
250
200
150

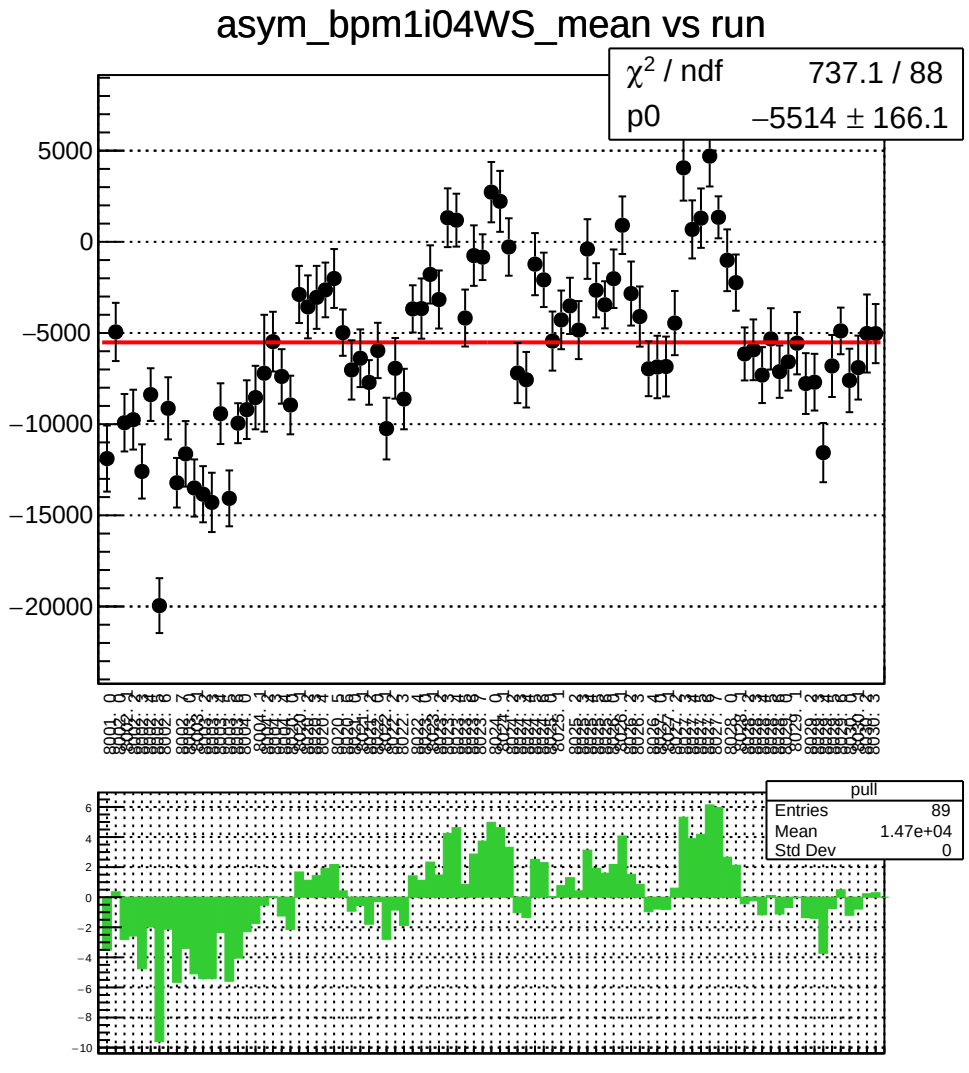

asym_bpm0i07WS_mean vs run
χ² / ndf 107.3 / 88
p0 2442 ± 1632
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −4944
Std Dev 0
3
2
1
0
−1
−2

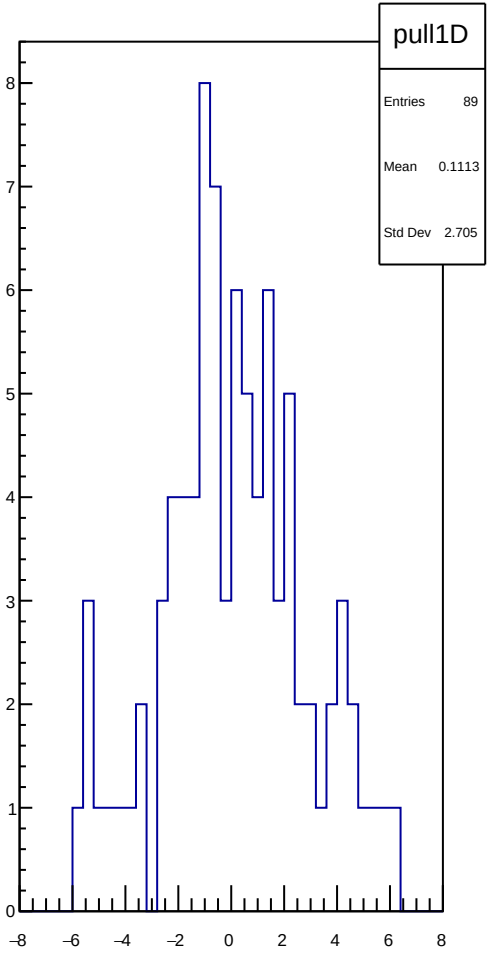

pull1D
Entries 89
Mean −0.0004506
Std Dev 1.098
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

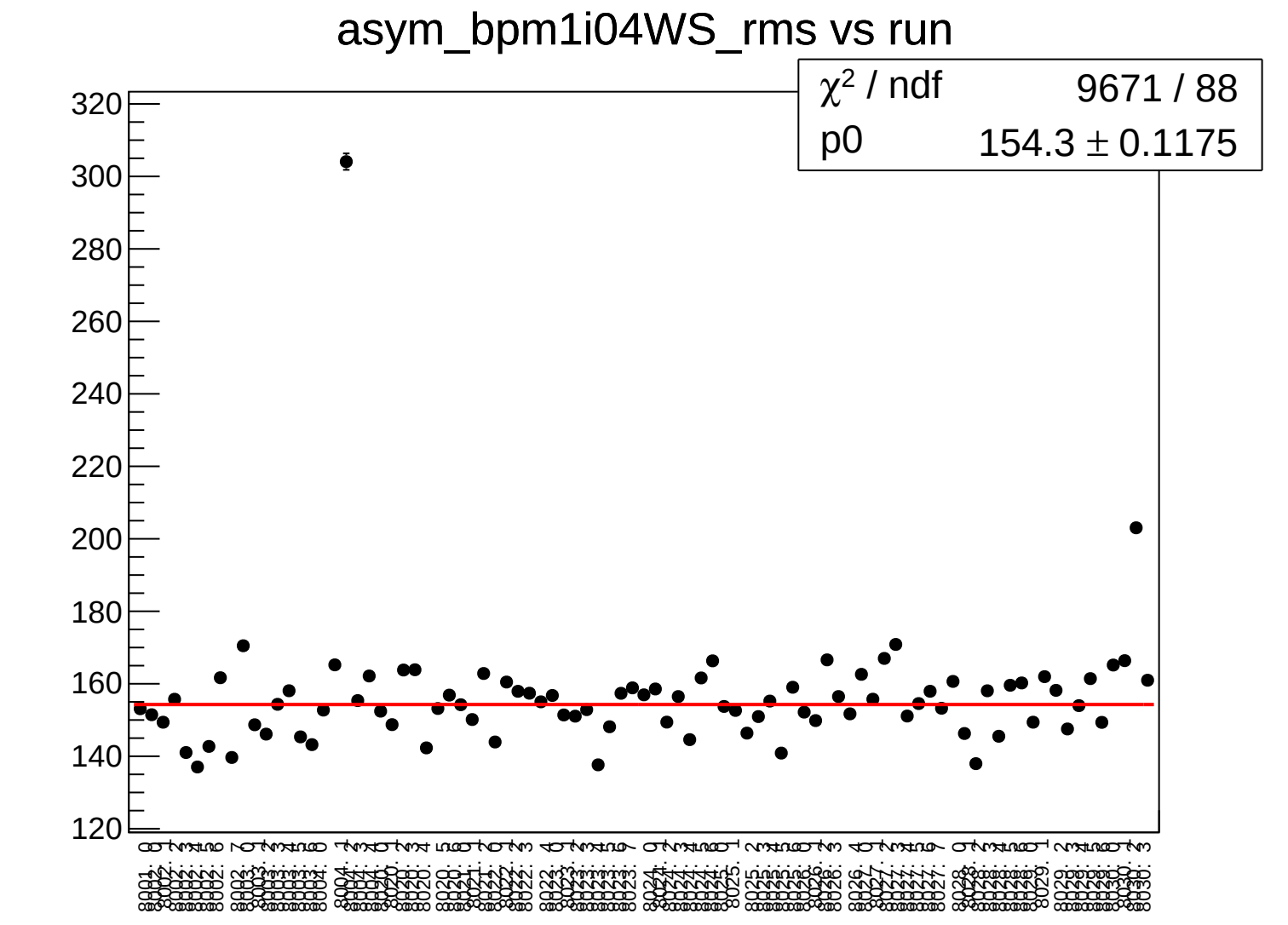

asym_bpm0i07WS_rms vs run
χ^2 / ndf 1.195e+04 / 88
p0 1515 ± 1.154
1800
1700
1600
1500
1400
1300
1200

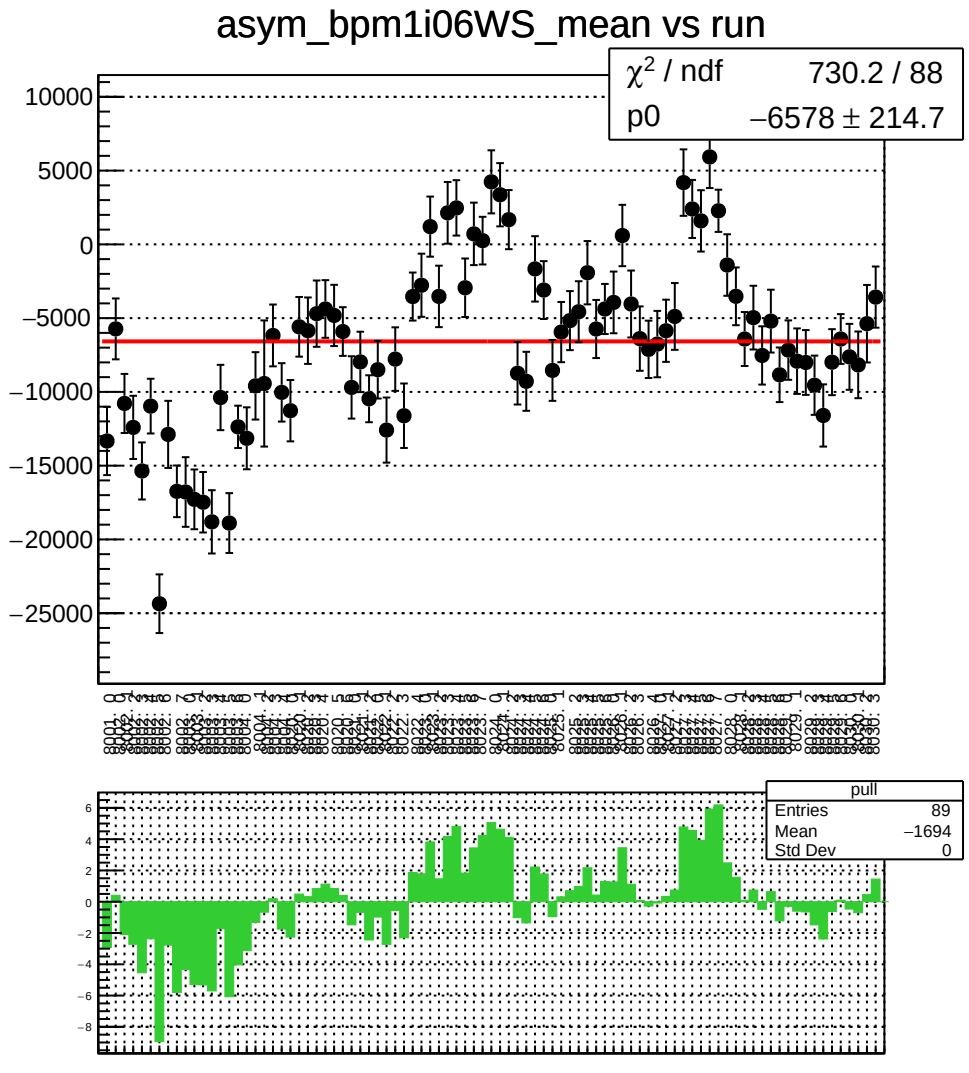

asym_bpm1i02WS_mean vs run
χ² / ndf 642.2 / 88
p0 −5047 ± 177.4
5000
0
−5000
−10000
−15000
−20000
pull
Entries 89
Mean −348.1
Std Dev 0
pull1D
Entries 89
Mean 0.01796
Std Dev 2.538

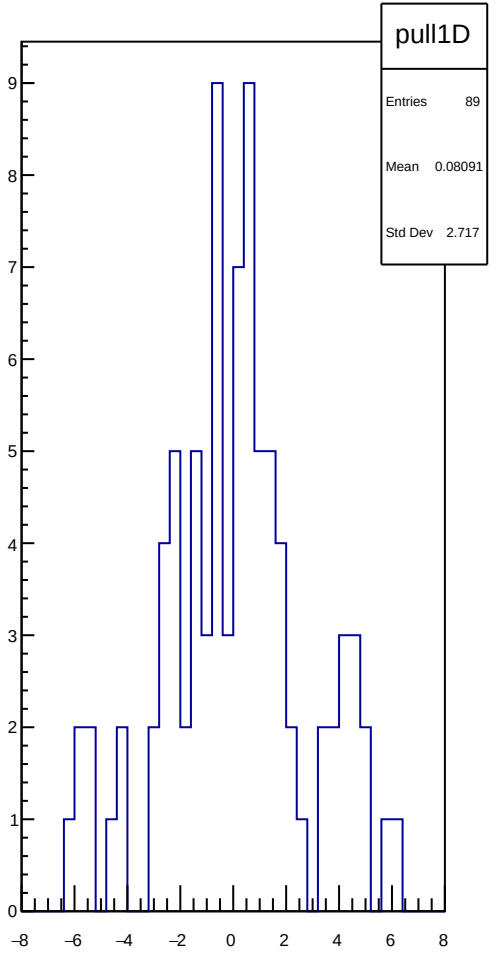

asym_bpm1i02WS_rms vs run
χ² / ndf 1.368e+04 / 88
p0 164.5 ± 0.1254
350
300
250
200
150

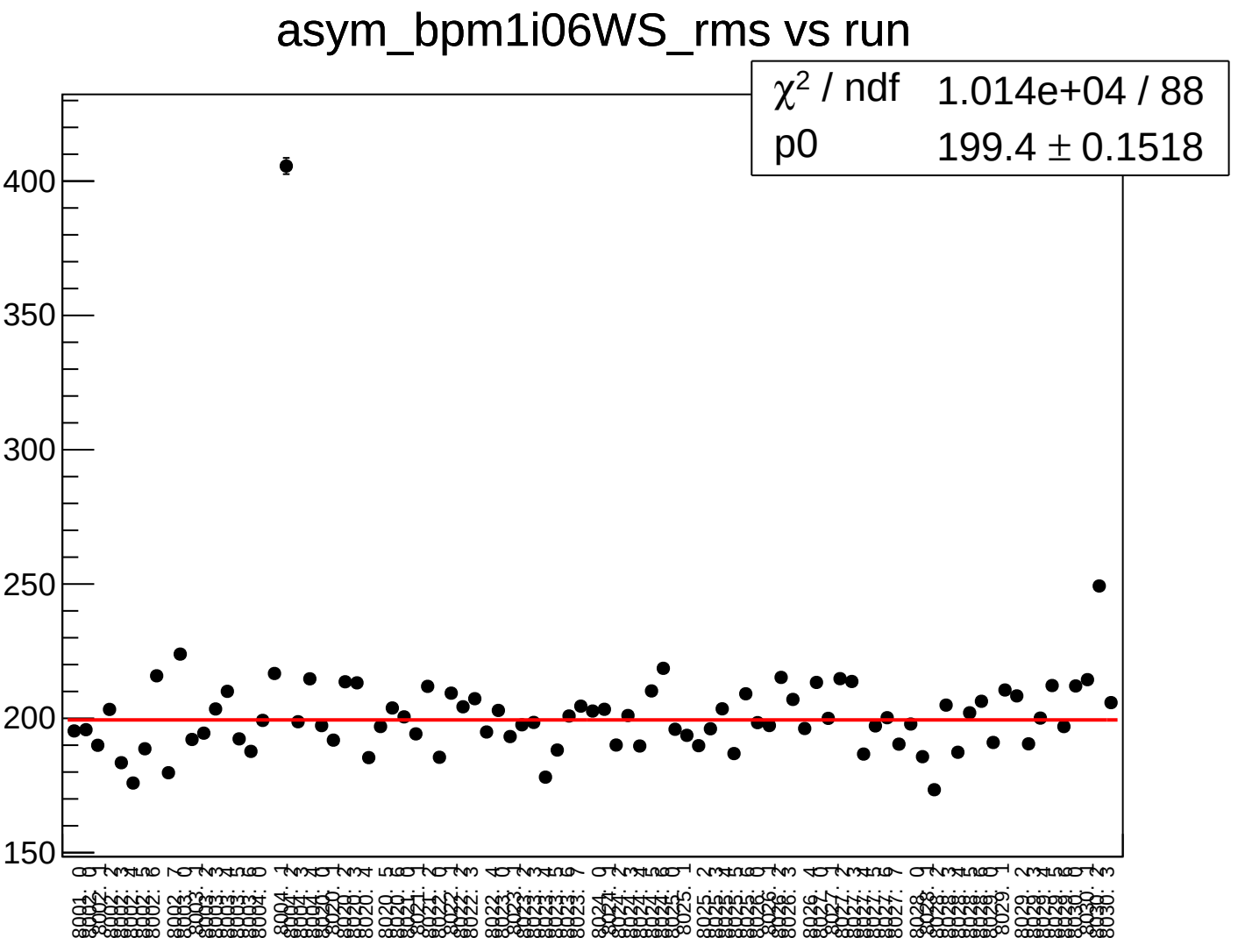

asym_bpm1i04WS_mean vs run
χ² / ndf 737.1 / 88
p0 −5514 ± 166.1
5000
0
−5000
−10000
−15000
−20000
pull
Entries 89
Mean 1.47e+04
Std Dev 0
6
4
2
0
−2
−4
−6
−8
−10

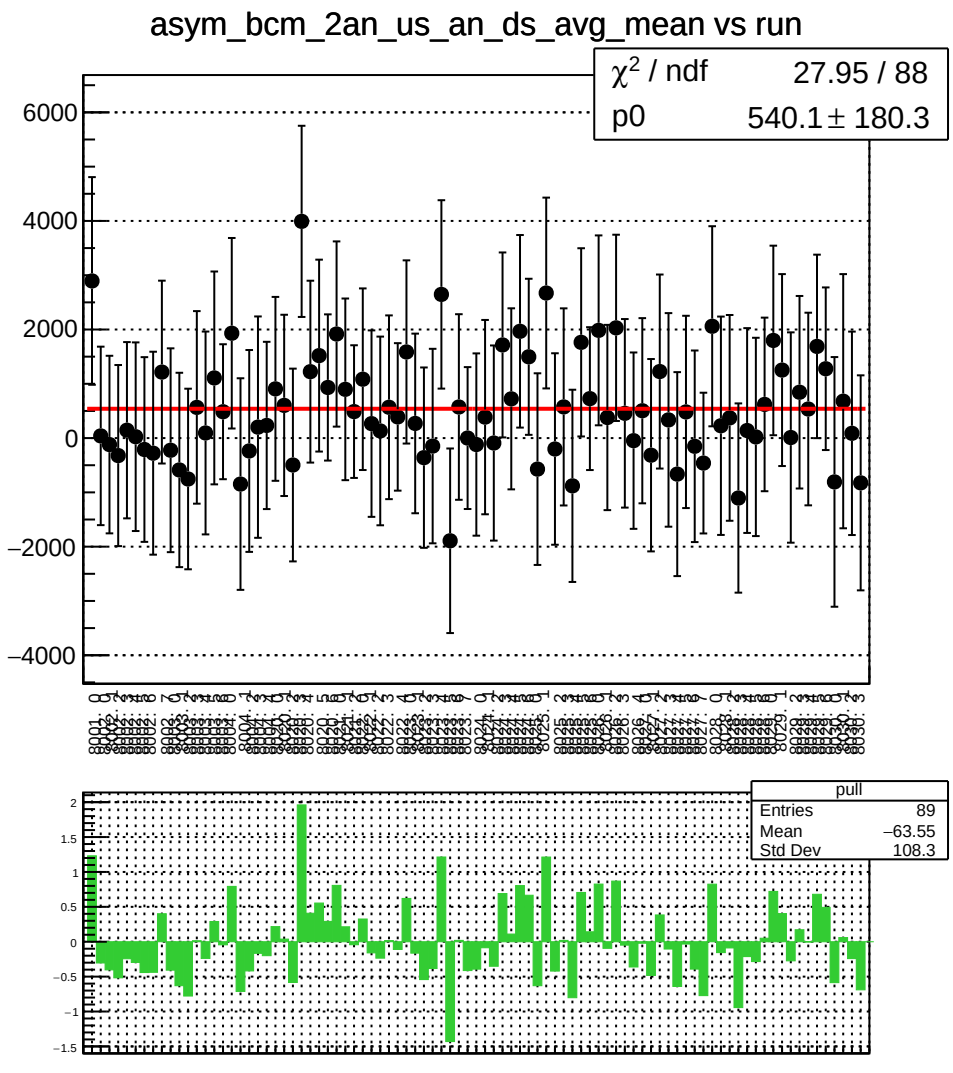

pull1D
Entries 89
Mean 0.1113
Std Dev 2.705
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

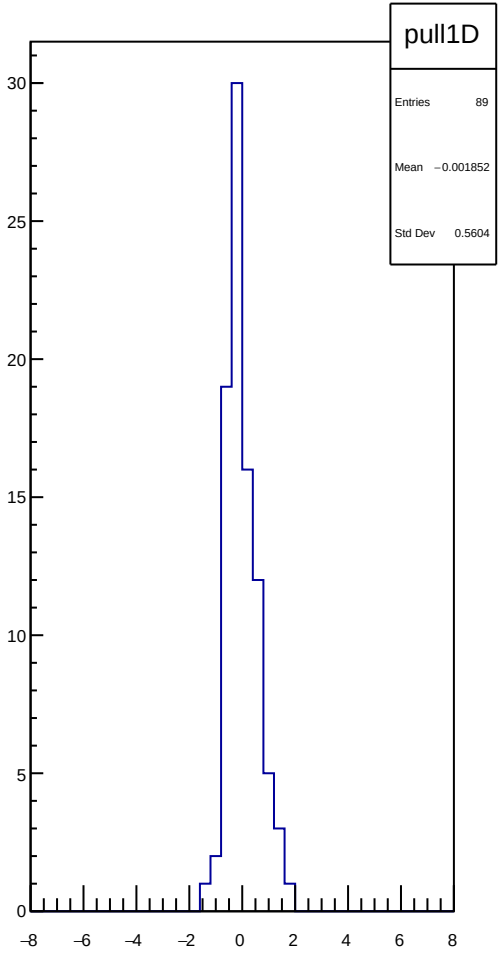

asym_bpm1i04WS_rms vs run
χ² / ndf 9671 / 88
p0 154.3 ± 0.1175
320
300
280
260
240
220
200
180
160
140
120

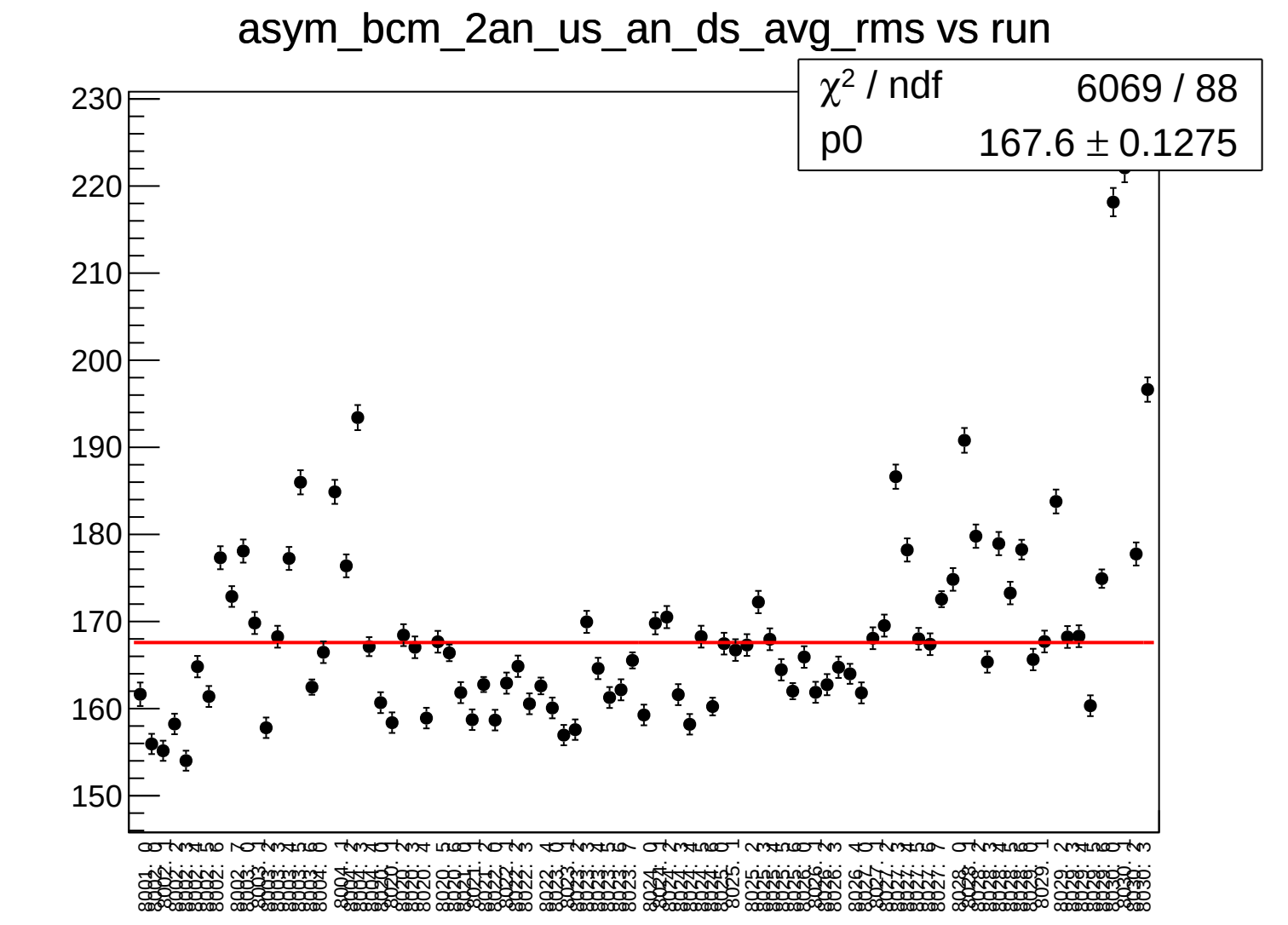

asym_bpm1i06WS_mean vs run
χ² / ndf 730.2 / 88
p0 −6578 ± 214.7
pull
Entries 89
Mean −1694
Std Dev 0

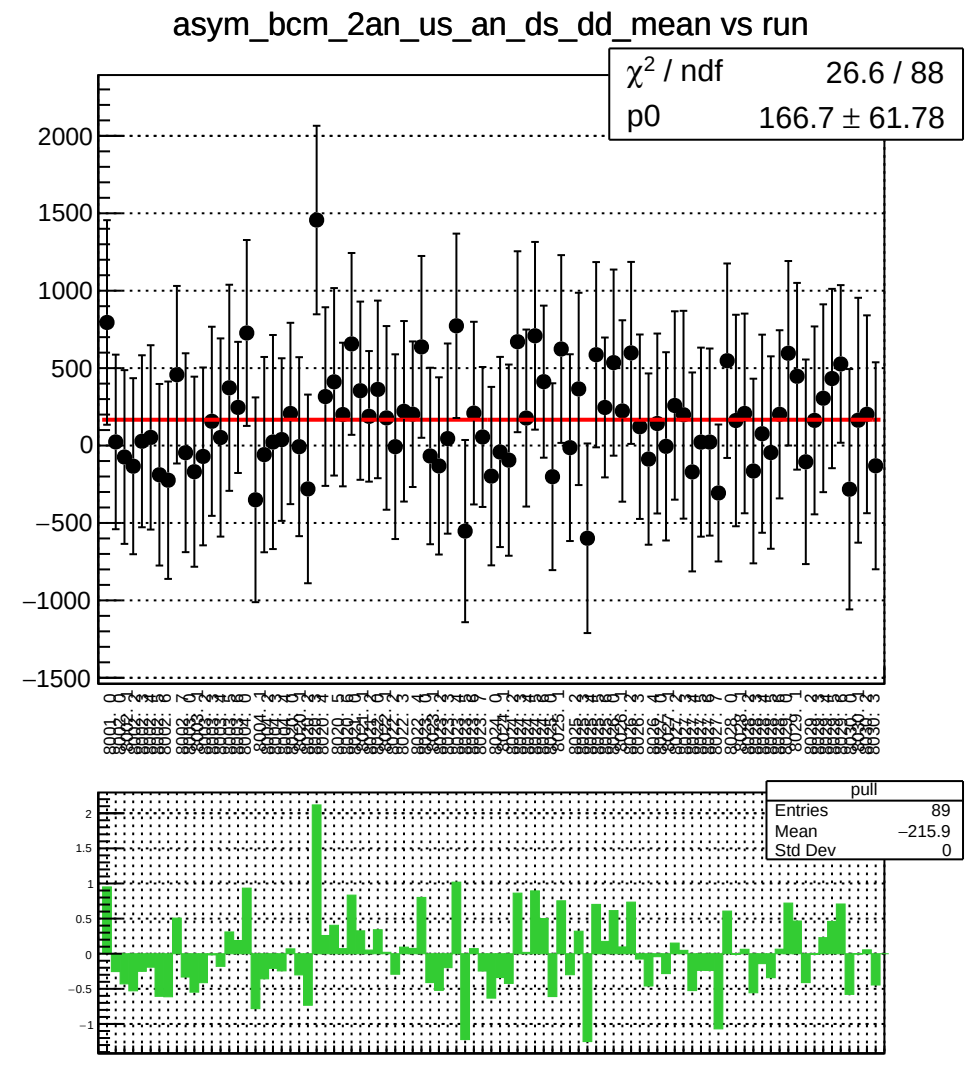

pull1D
Entries 89
Mean 0.08091
Std Dev 2.717

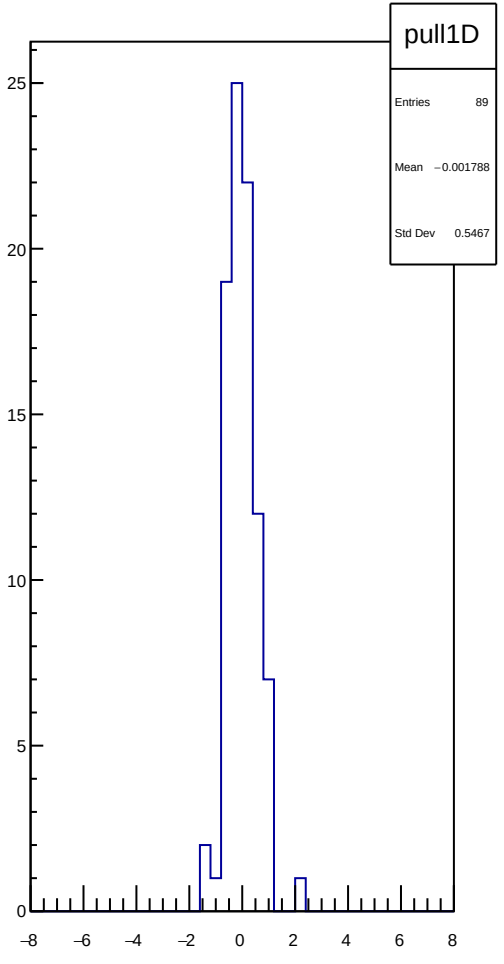

asym_bpm1i06WS_rms vs run
χ² / ndf 1.014e+04 / 88
p0 199.4 ± 0.1518
400
350
300
250
200
150

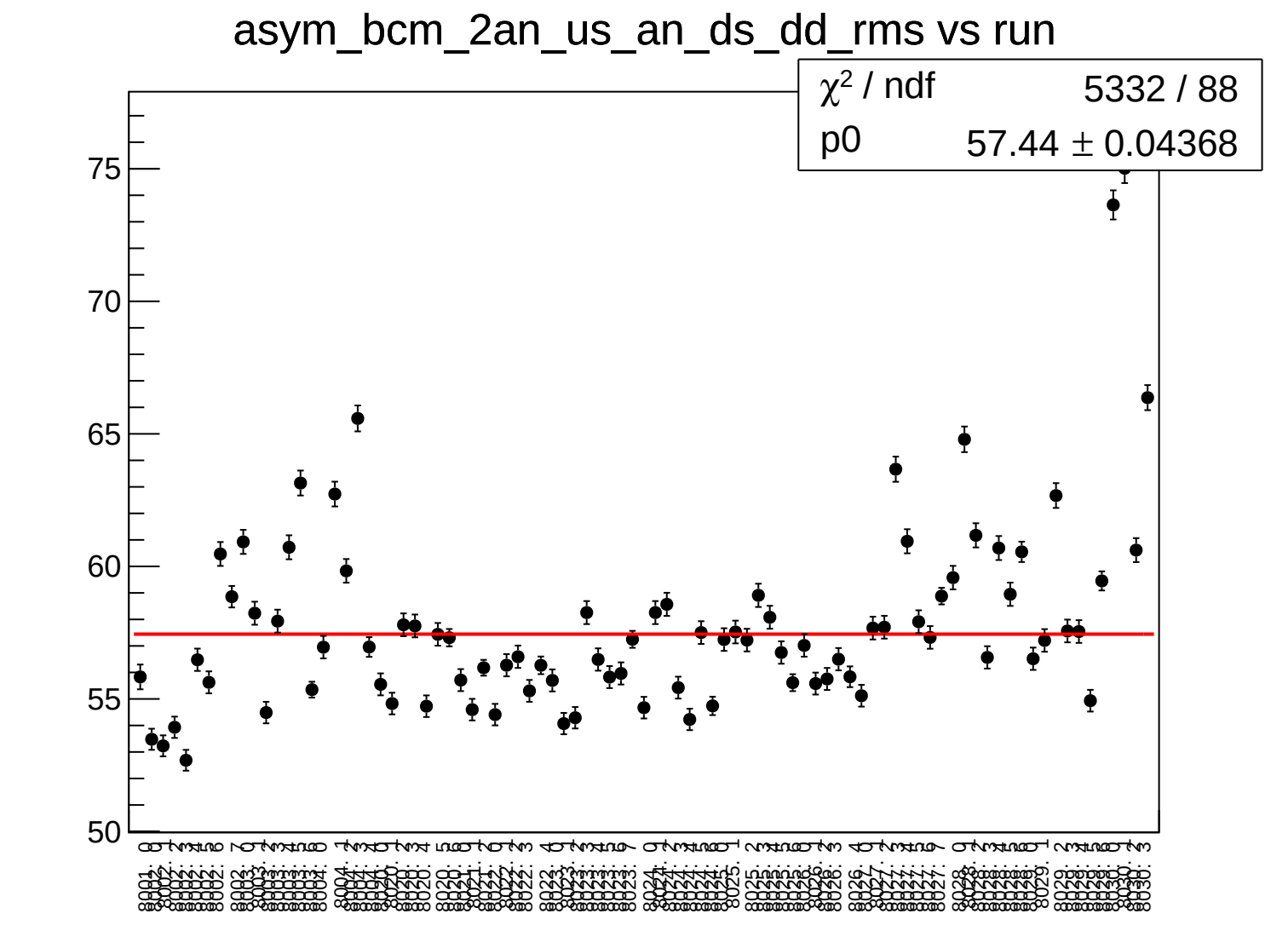

asym_bcm_2an_us_an_ds_avg_mean vs run
χ² / ndf 27.95 / 88
p0 540.1 ± 180.3
pull
Entries 89
Mean −63.55
Std Dev 108.3

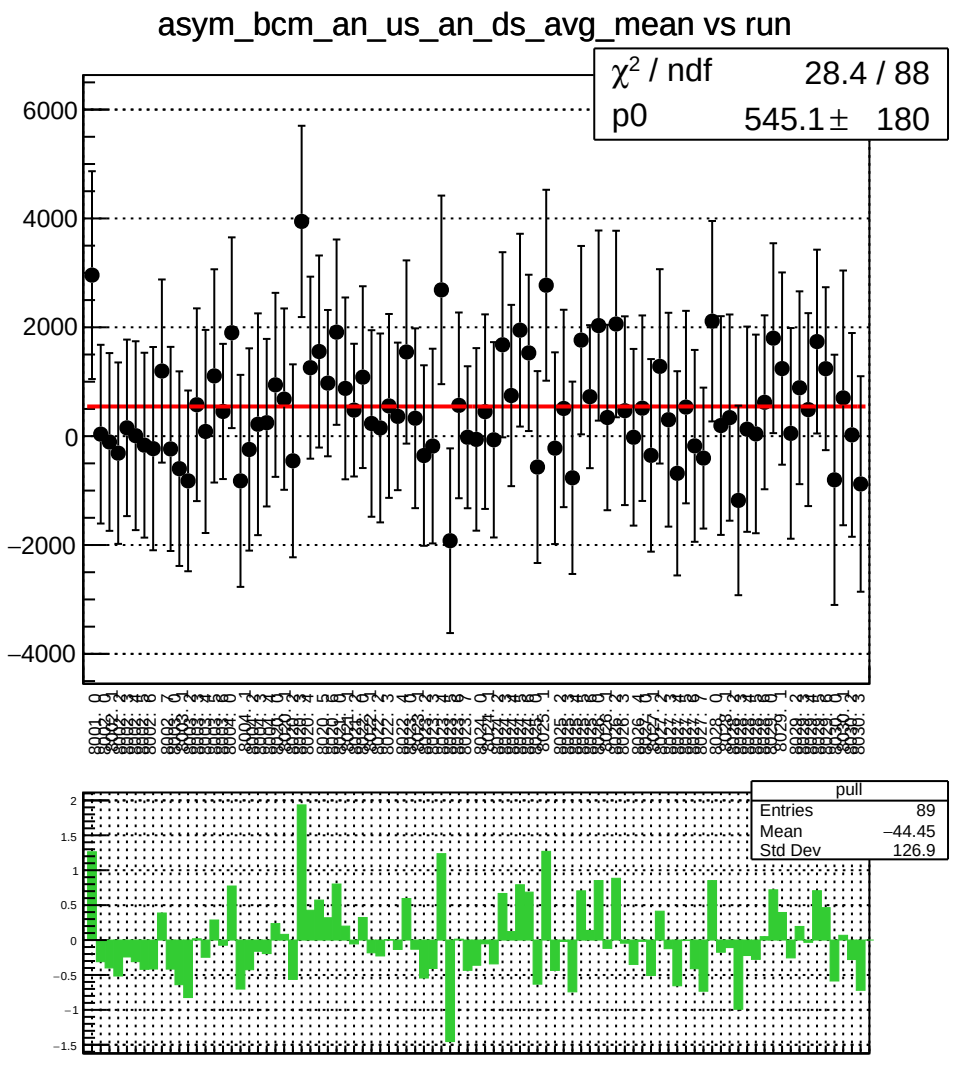

pull1D
Entries 89
Mean −0.001852
Std Dev 0.5604

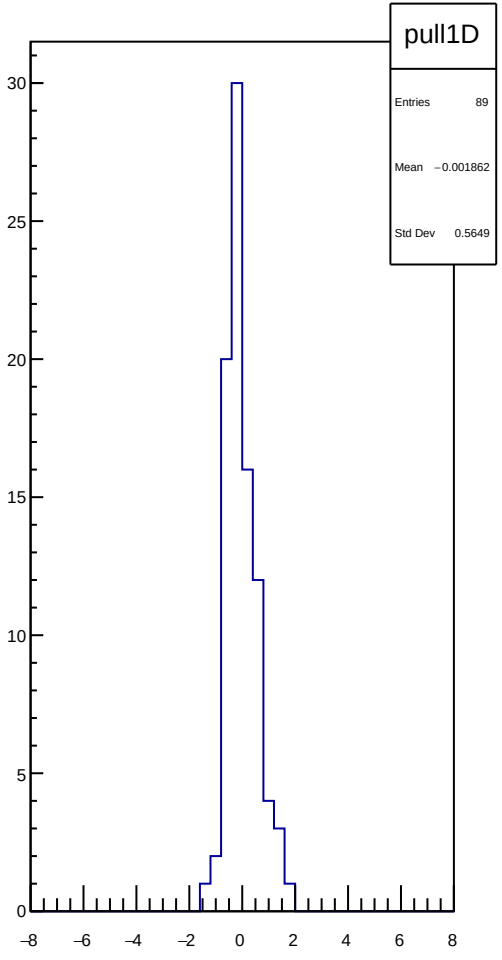

asym_bcm_2an_us_an_ds_avg_rms vs run
χ² / ndf 6069 / 88
p0 167.6 ± 0.1275
230
220
210
200
190
180
170
160
150

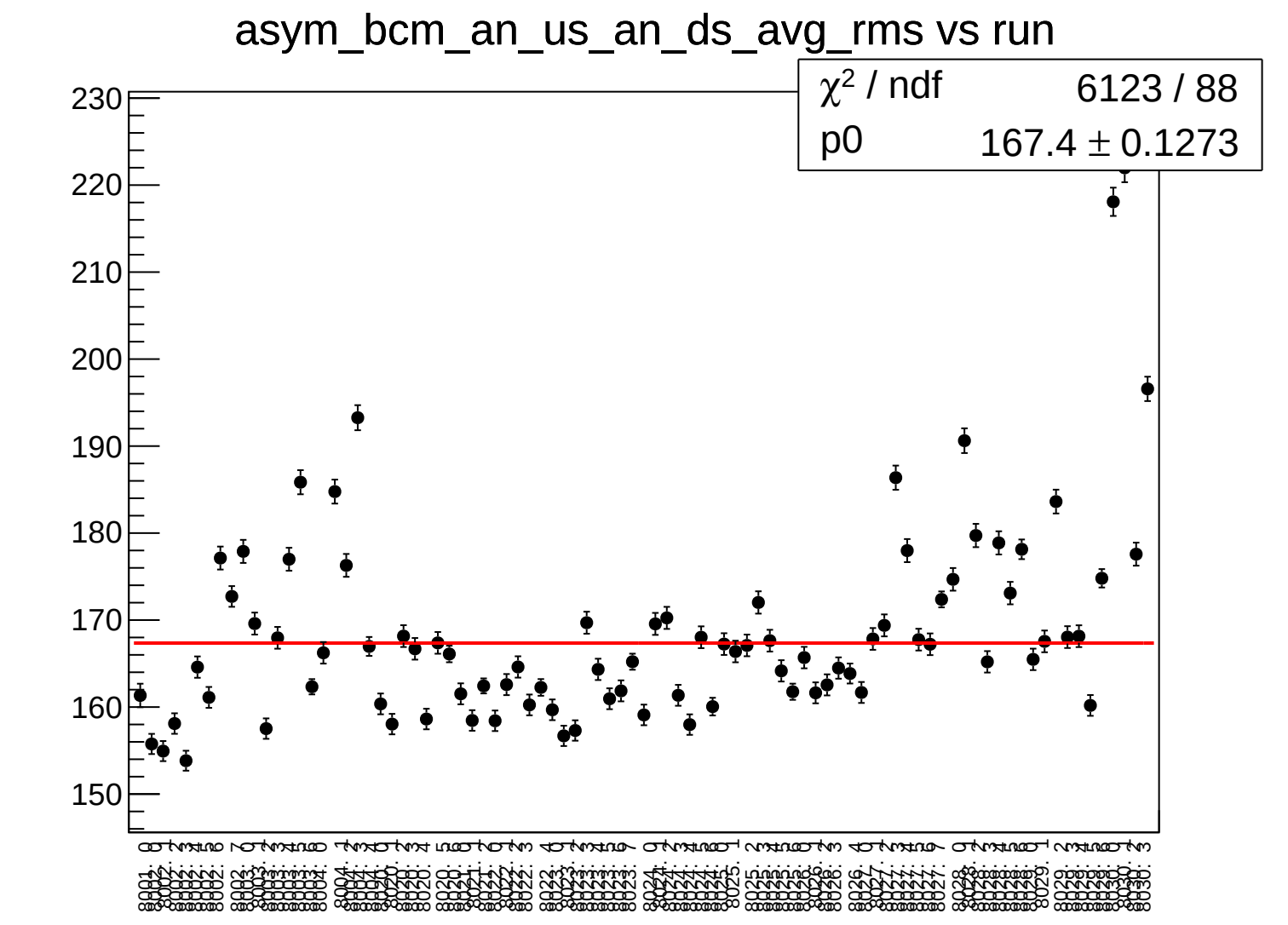

asym_bcm_2an_us_an_ds_dd_mean vs run
χ² / ndf 26.6 / 88
p0 166.7 ± 61.78
pull
Entries 89
Mean −215.9
Std Dev 0

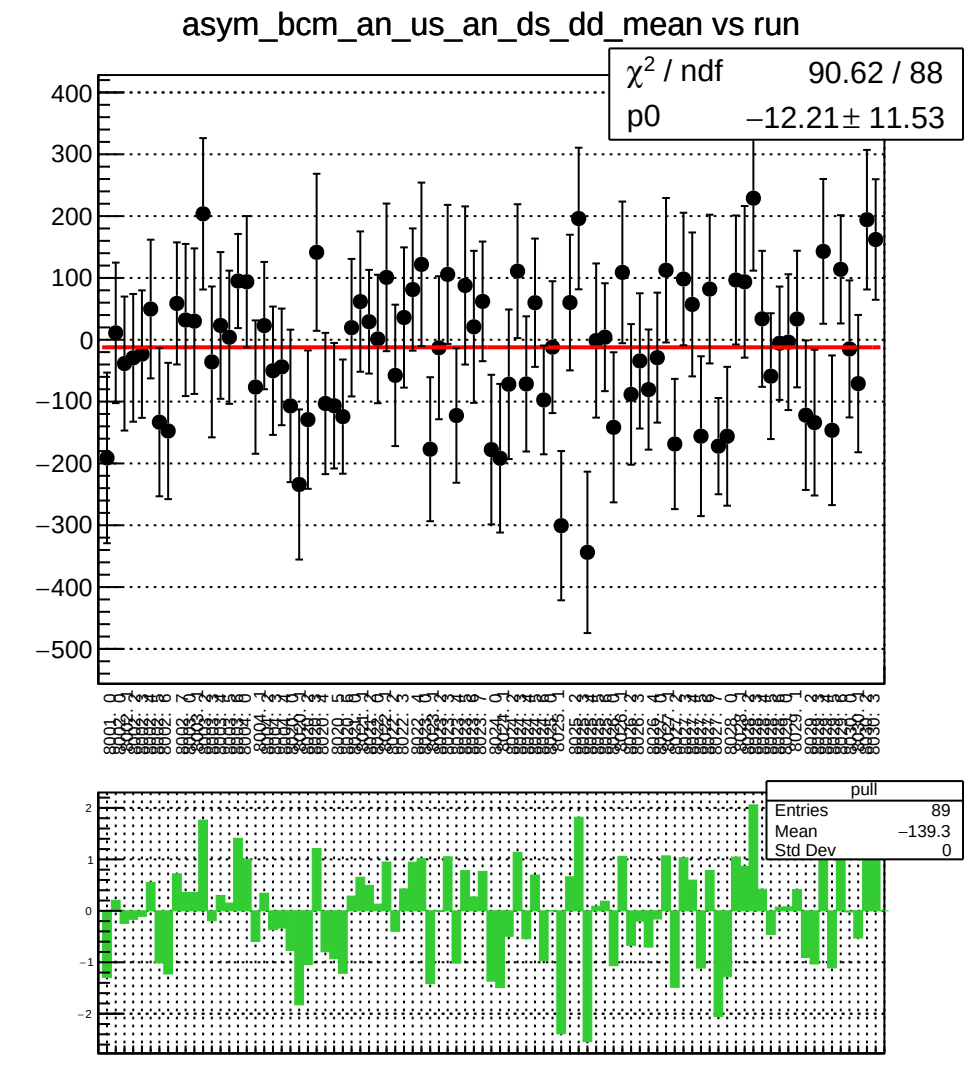

pull1D
Entries 89
Mean −0.001788
Std Dev 0.5467

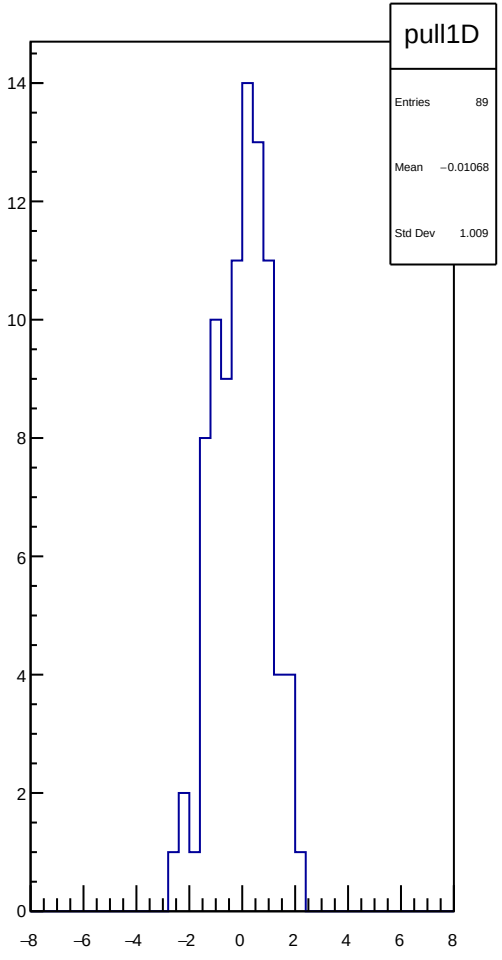

asym_bcm_2an_us_an_ds_dd_rms vs run
χ² / ndf 5332 / 88
p0 57.44 ± 0.04368
75
70
65
60
55
50

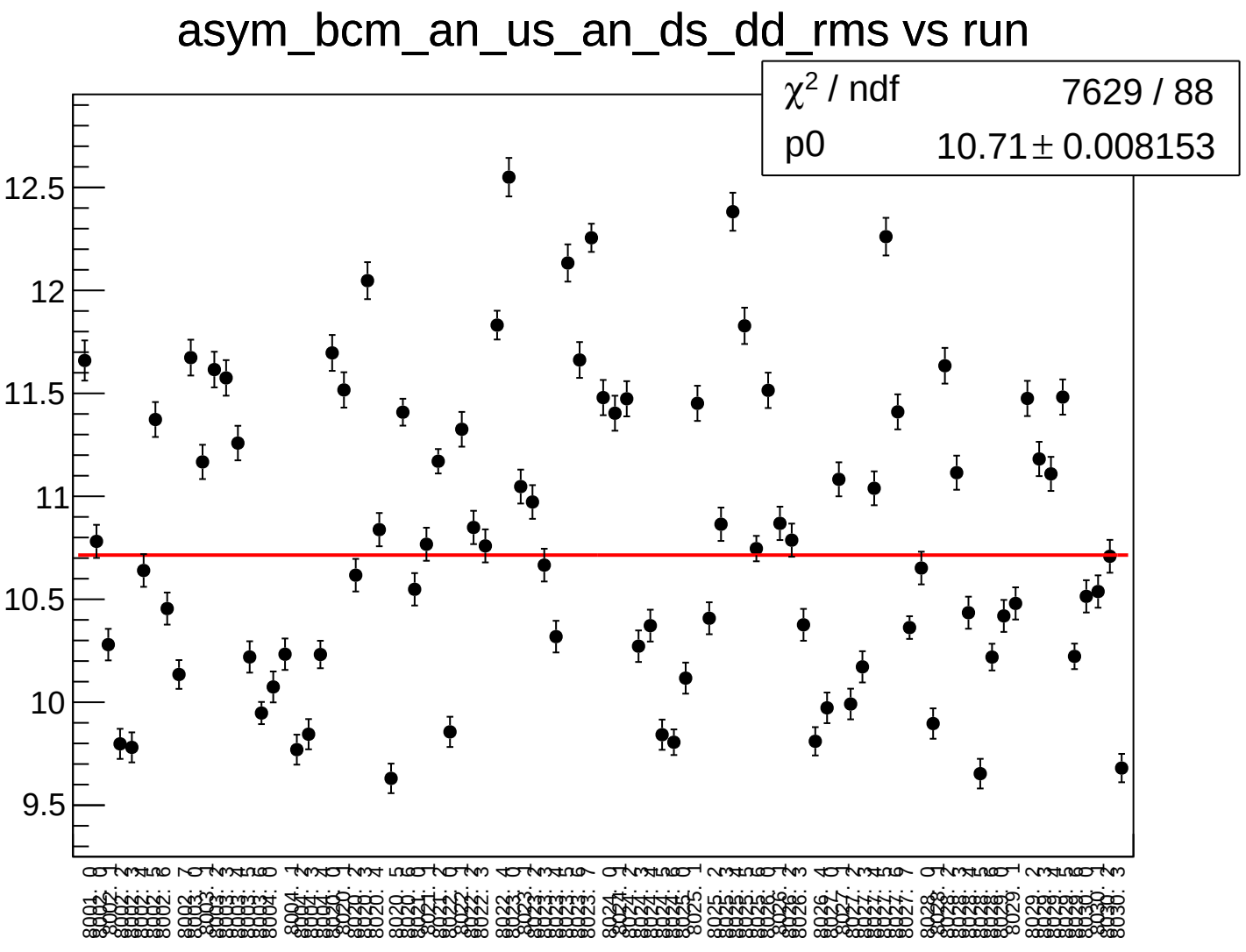

asym_bcm_an_us_an_ds_avg_mean vs run
χ² / ndf 28.4 / 88
p0 545.1 ± 180
6000
4000
2000
0
−2000
−4000
pull
Entries 89
Mean −44.45
Std Dev 126.9
2
1.5
1
0.5
0
−0.5
−1
−1.5

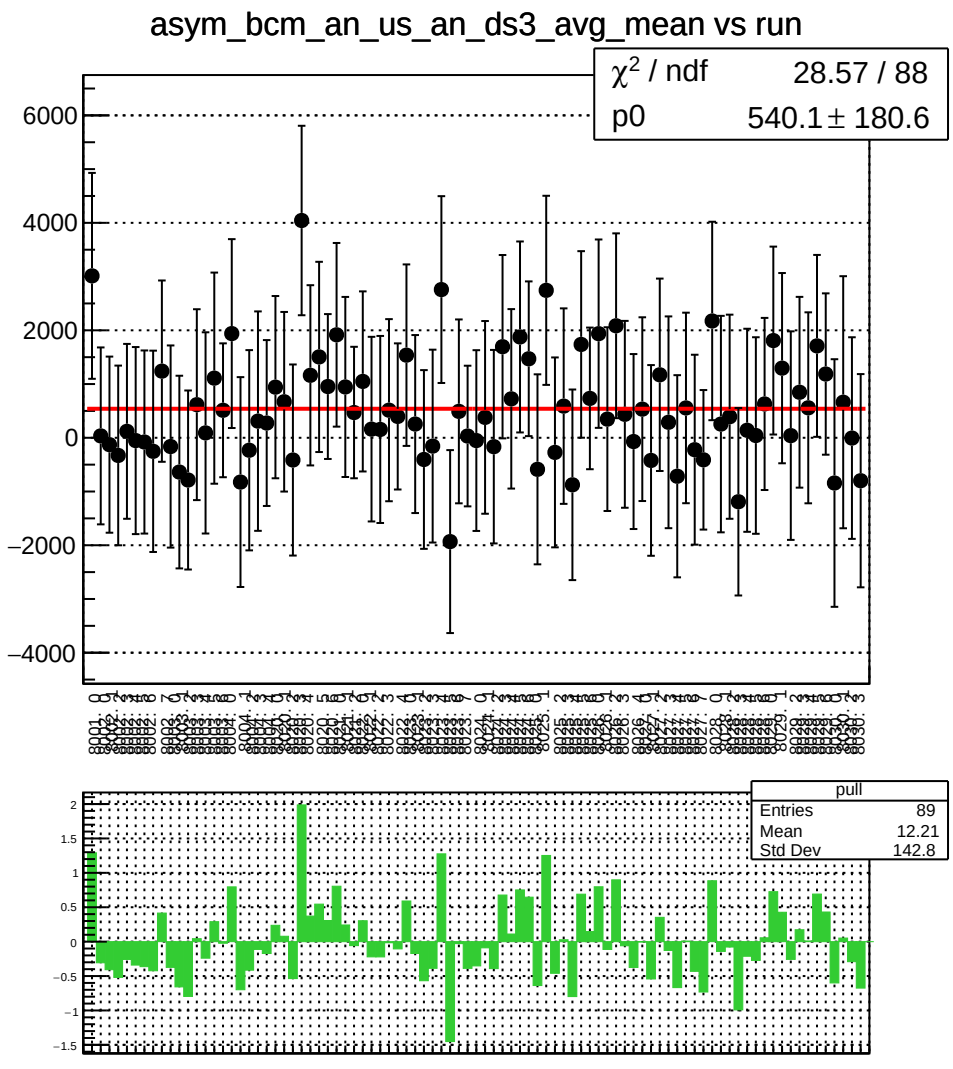

pull1D
Entries 89
Mean −0.001862
Std Dev 0.5649
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

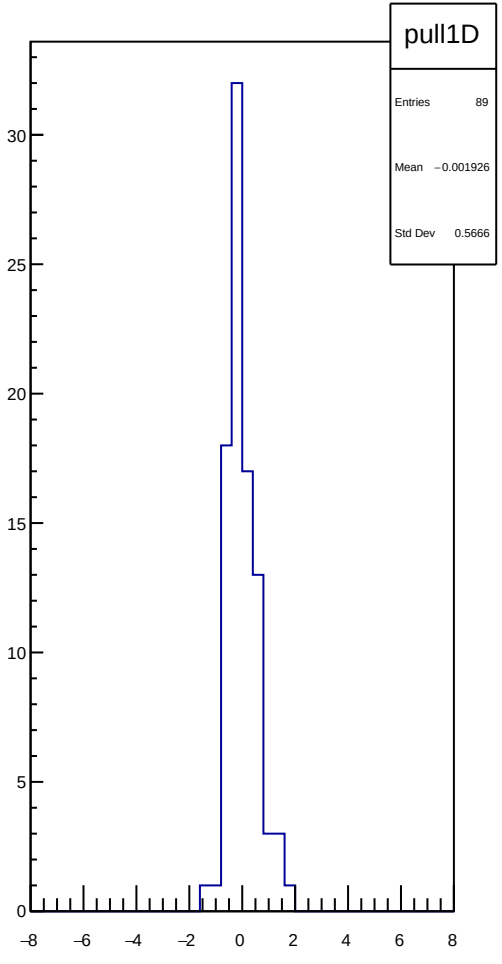

asym_bcm_an_us_an_ds_avg_rms vs run
χ² / ndf 6123 / 88
p0 167.4 ± 0.1273
230
220
210
200
190
180
170
160
150

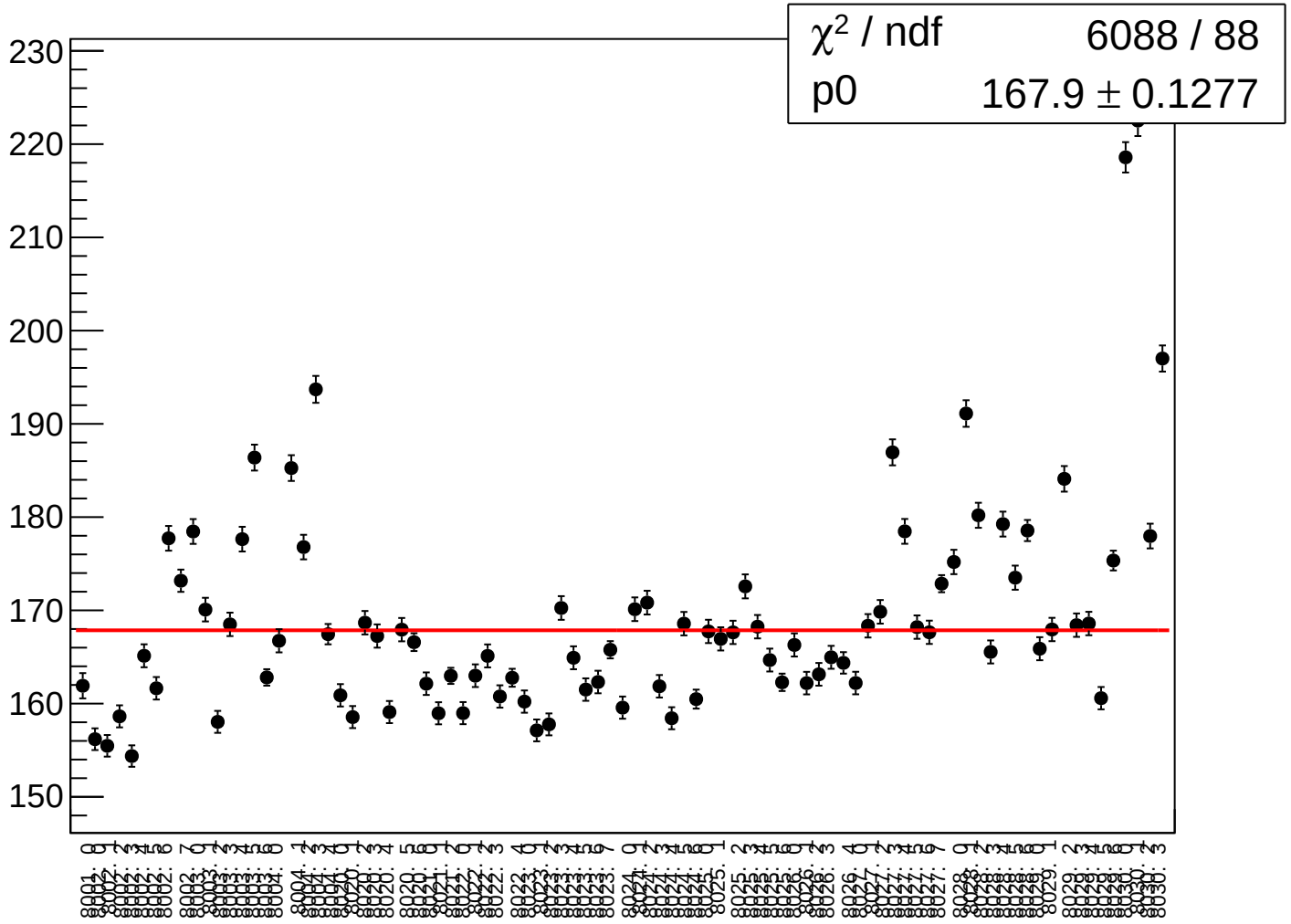

asym_bcm_an_us_an_ds_dd_mean vs run
χ² / ndf 90.62 / 88
p0 −12.21± 11.53
pull
Entries 89
Mean −139.3
Std Dev 0

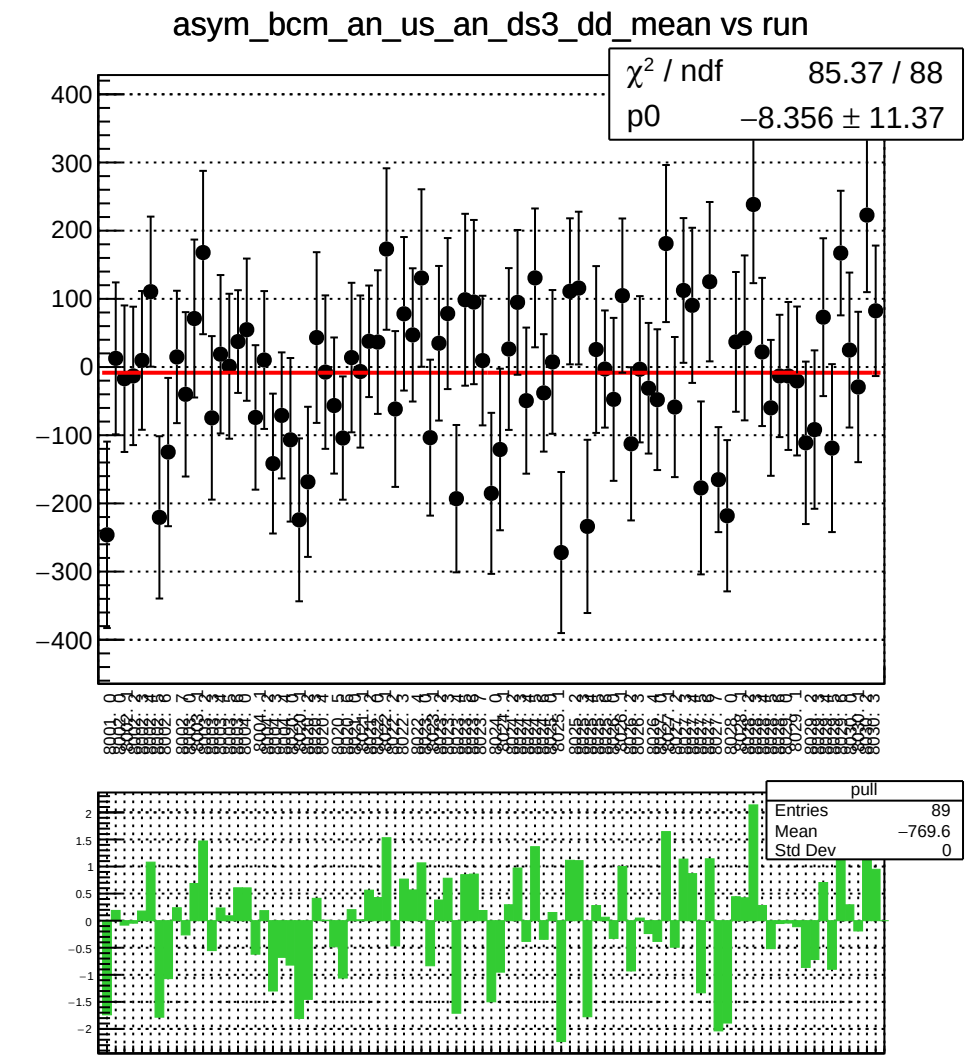

pull1D
Entries 89
Mean −0.01068
Std Dev 1.009

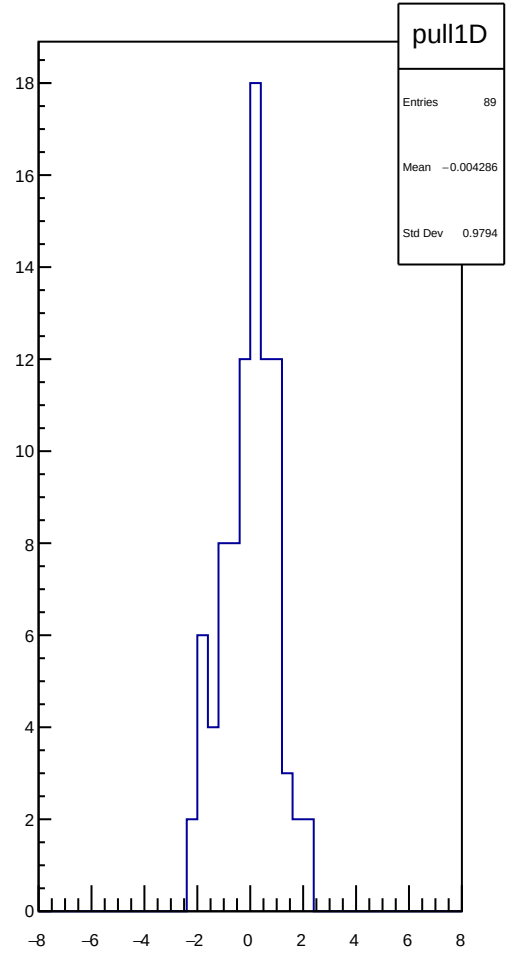

asym_bcm_an_us_an_ds_dd_rms vs run
χ² / ndf 7629 / 88
p0 10.71 ± 0.008153
12.5
12
11.5
11
10.5
10
9.5

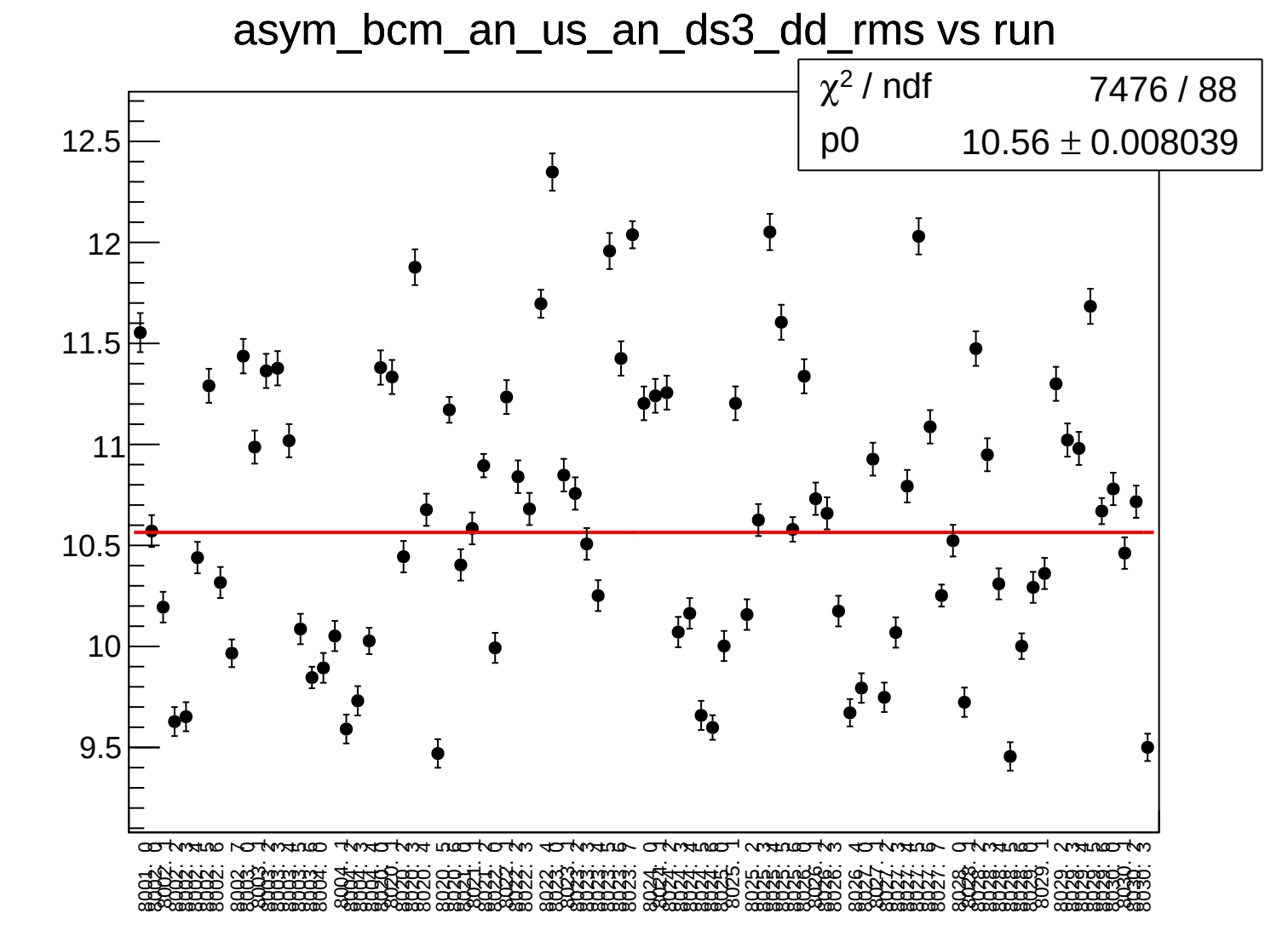

asym_bcm_an_us_an_ds3_avg_mean vs run
χ² / ndf 28.57 / 88
p0 540.1 ± 180.6
pull
Entries 89
Mean 12.21
Std Dev 142.8

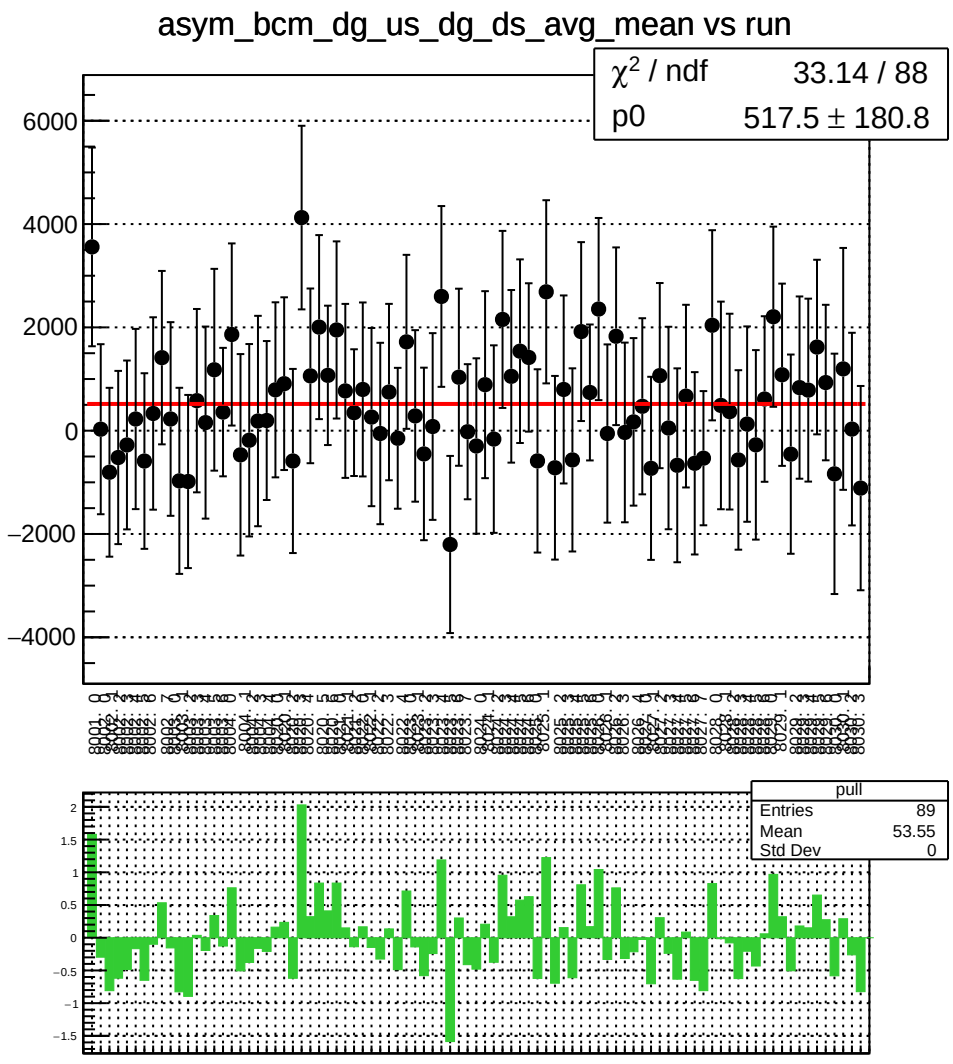

pull1D
Entries 89
Mean −0.001926
Std Dev 0.5666

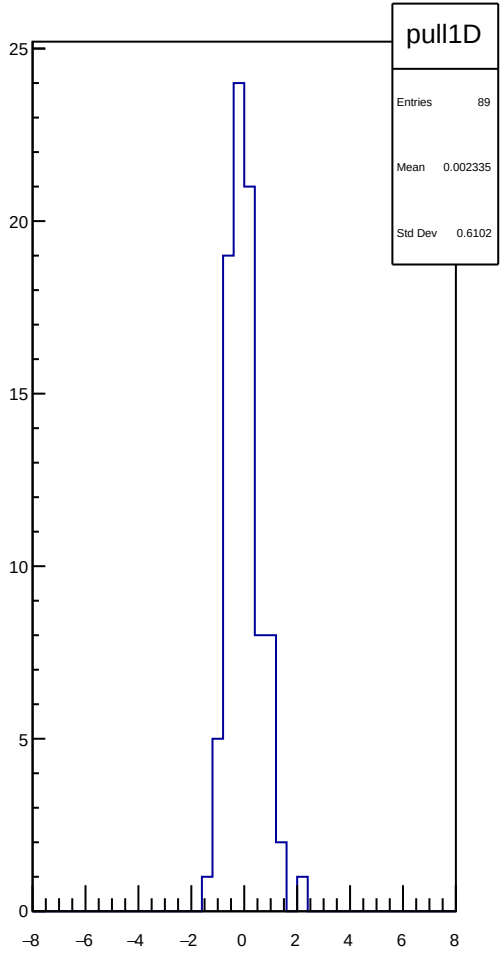

asym_bcm_an_us_an_ds3_avg_rms vs run
χ² / ndf 6088 / 88
p0 167.9 ± 0.1277
230
220
210
200
190
180
170
160
150

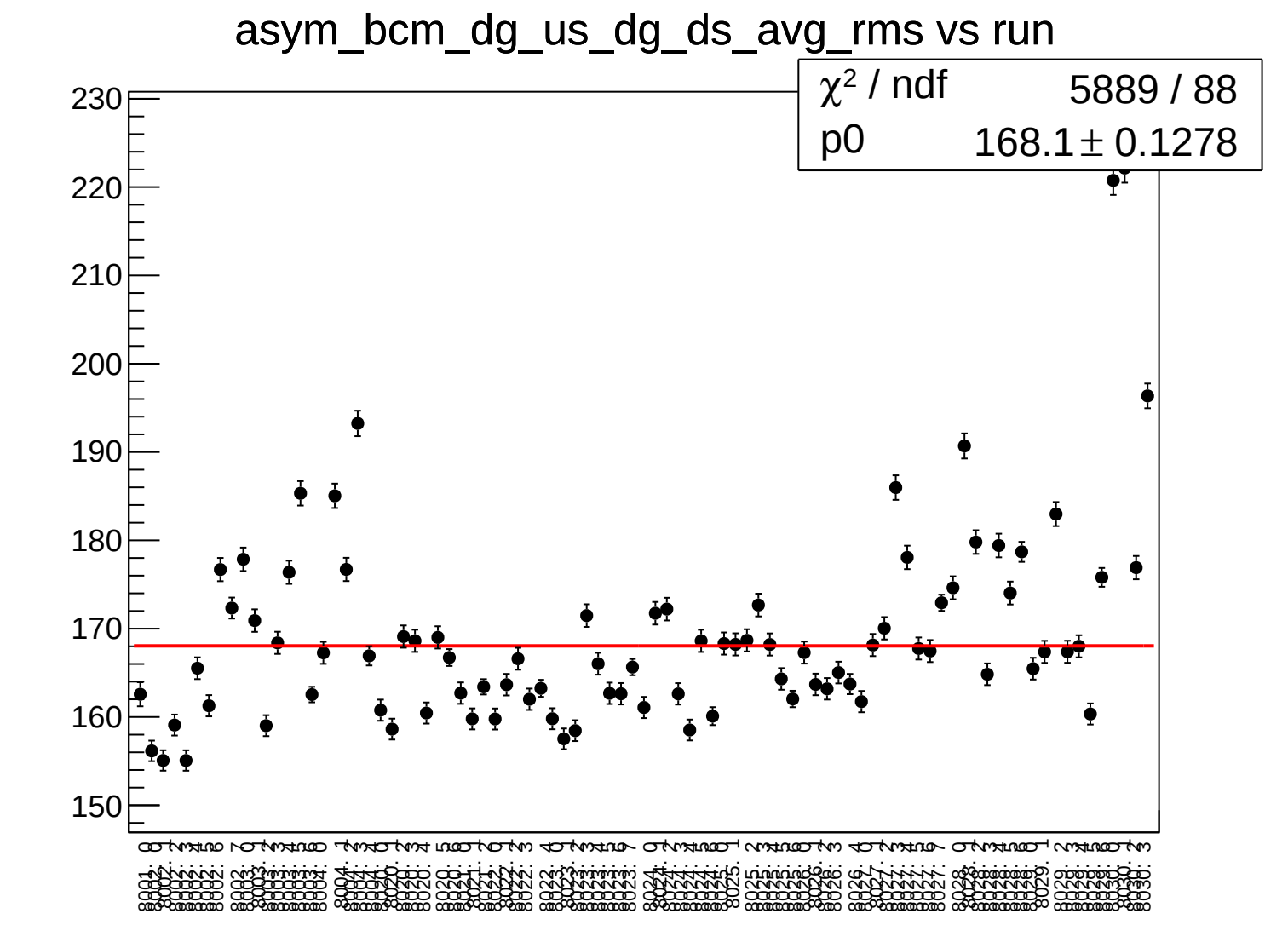

asym_bcm_an_us_an_ds3_dd_mean vs run
χ² / ndf 85.37 / 88
p0 −8.356 ± 11.37
pull
Entries 89
Mean −769.6
Std Dev 0

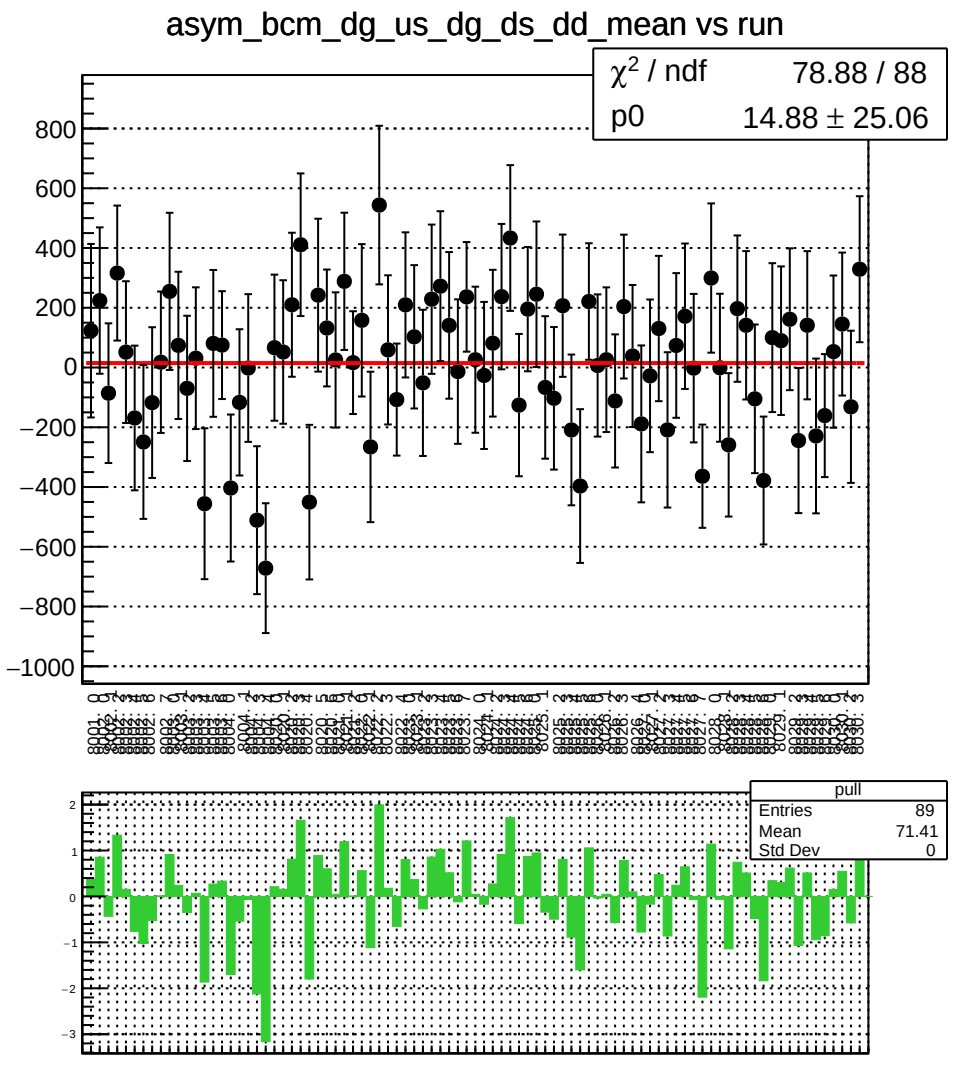

pull1D
Entries 89
Mean −0.004286
Std Dev 0.9794

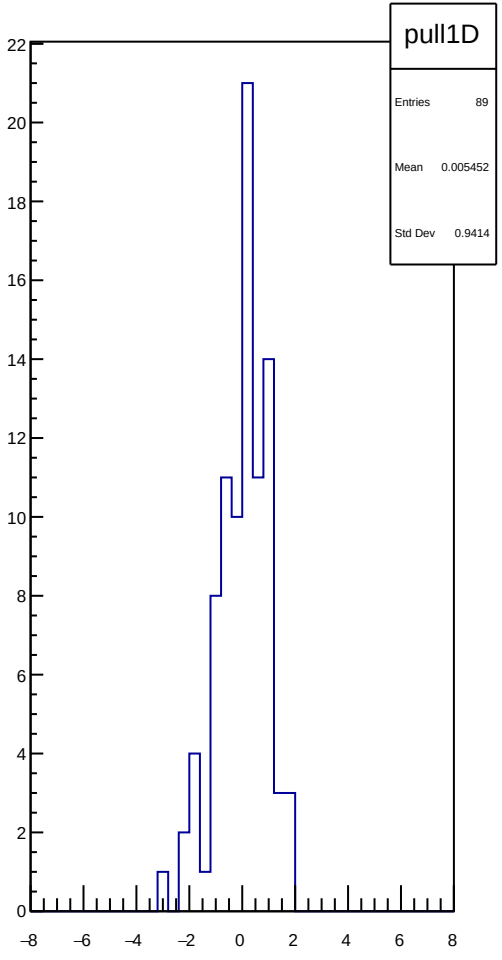

asym_bcm_an_us_an_ds3_dd_rms vs run
χ^2 / ndf 7476 / 88
p0 10.56 ± 0.008039
12.5
12
11.5
11
10.5
10
9.5

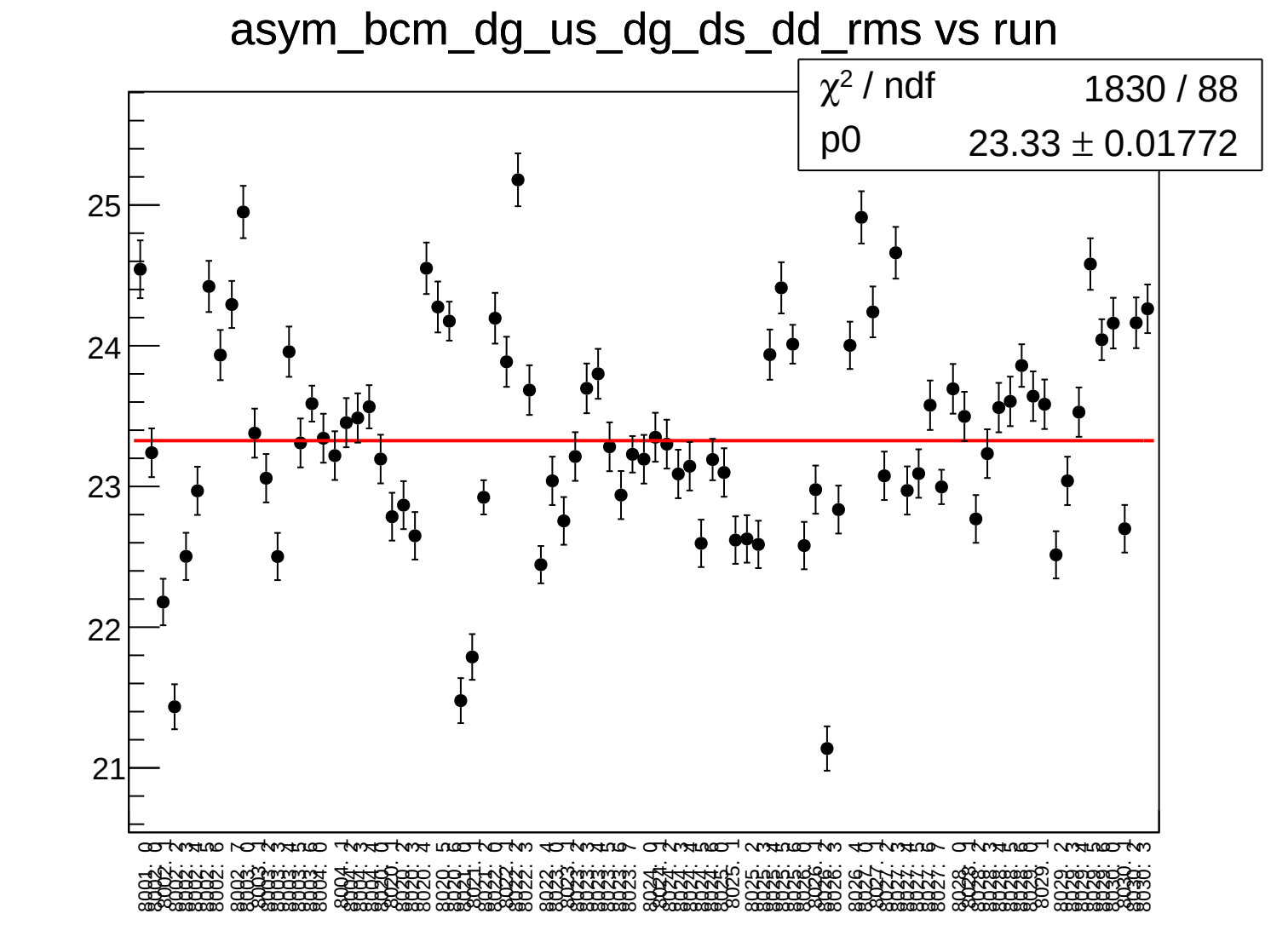

asym_bcm_dg_us_dg_ds_avg_mean vs run
χ² / ndf 33.14 / 88
p0 517.5 ± 180.8
6000
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 53.55
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

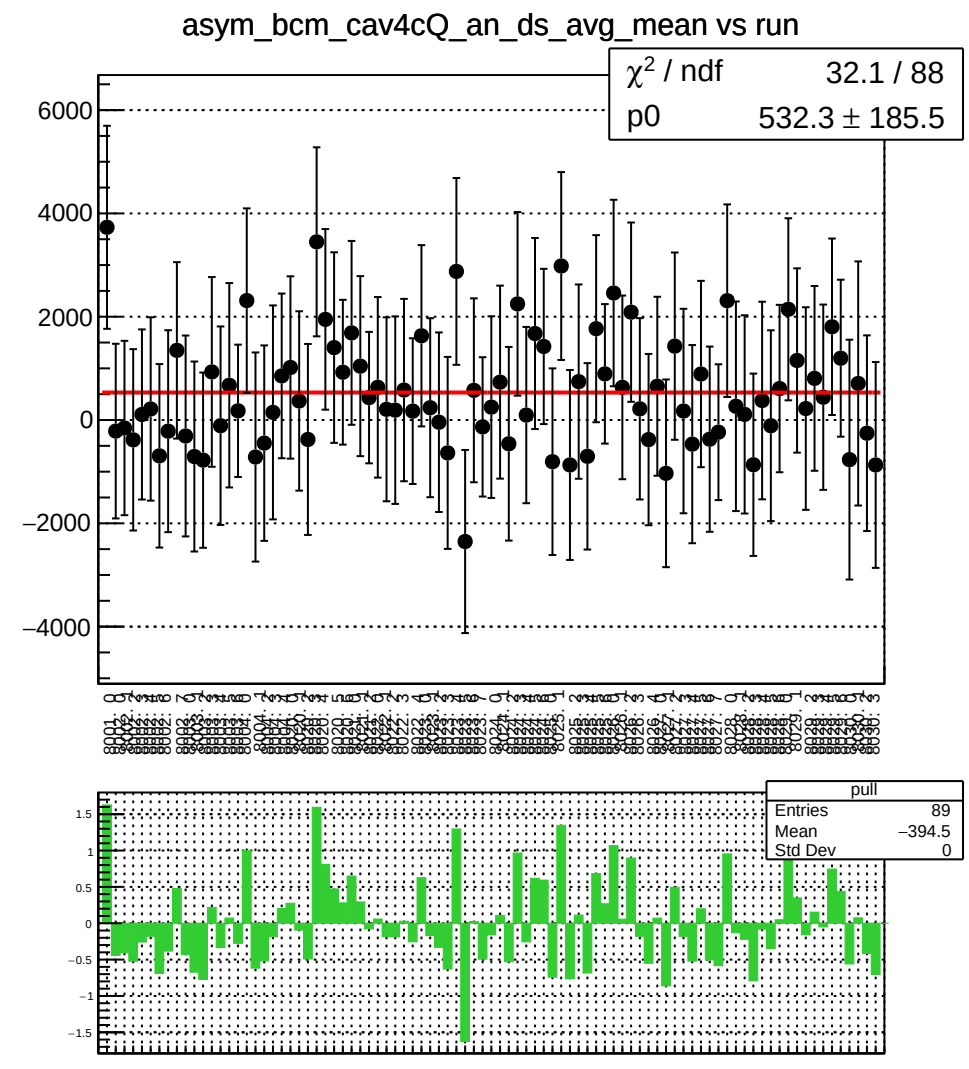

pull1D
Entries 89
Mean 0.002335
Std Dev 0.6102
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

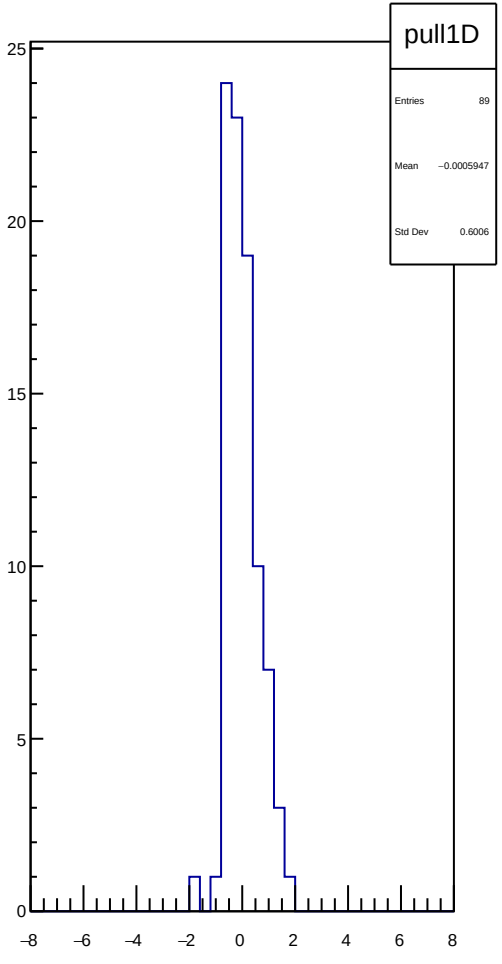

asym_bcm_dg_us_dg_ds_avg_rms vs run
χ² / ndf 5889 / 88
p0 168.1 ± 0.1278
230
220
210
200
190
180
170
160
150

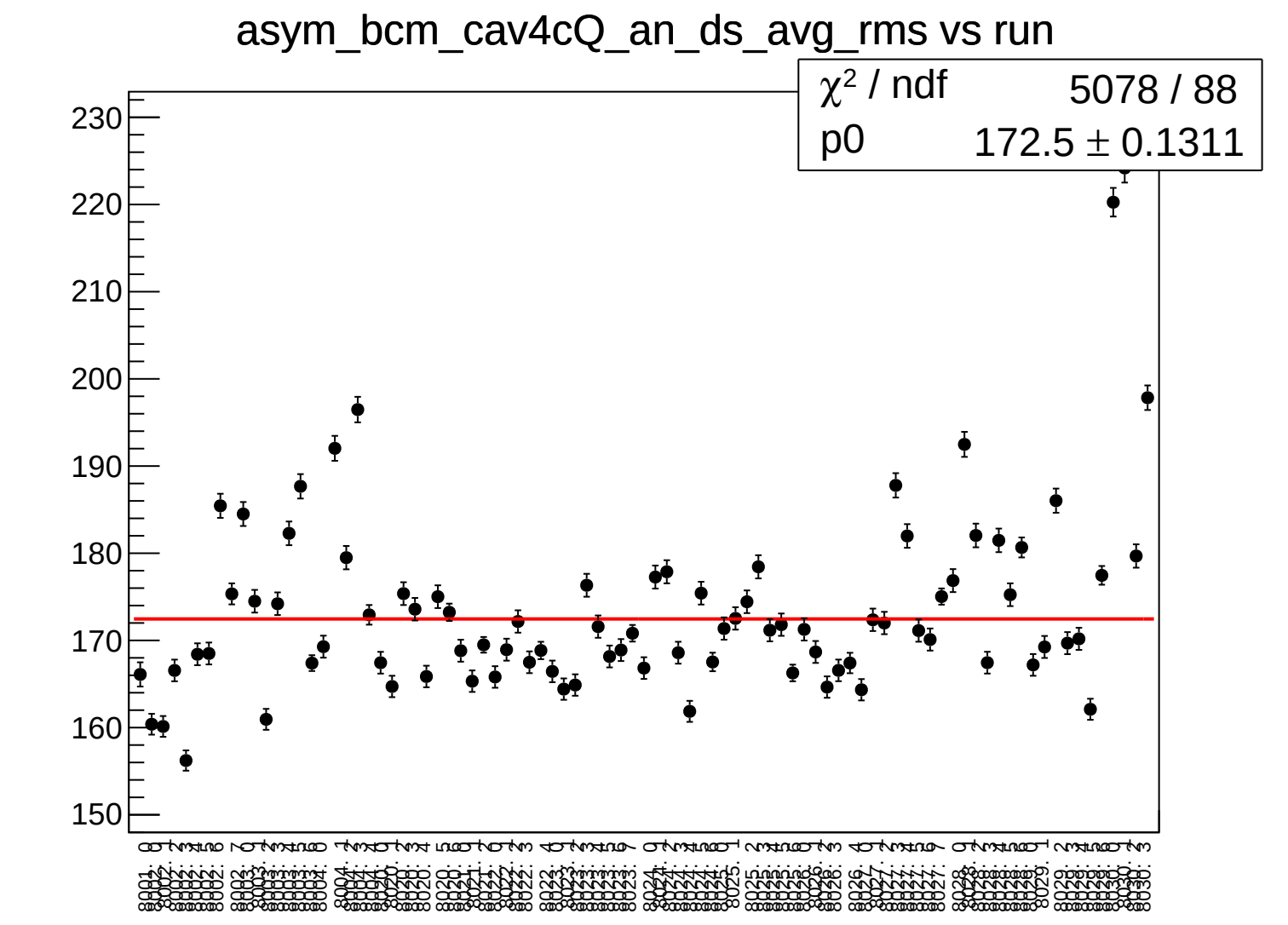

asym_bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 78.88 / 88
p0 14.88 ± 25.06
pull
Entries 89
Mean 71.41
Std Dev 0

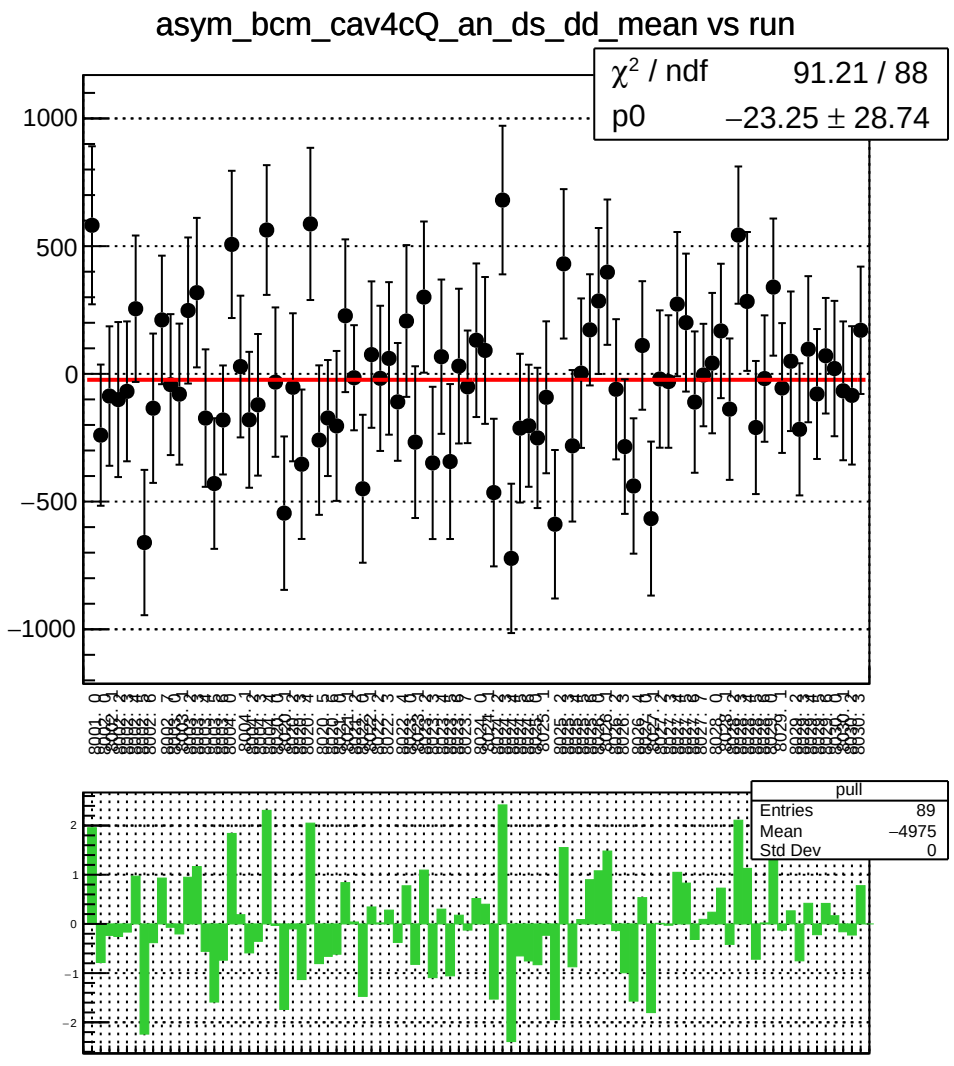

pull1D
Entries 89
Mean 0.005452
Std Dev 0.9414

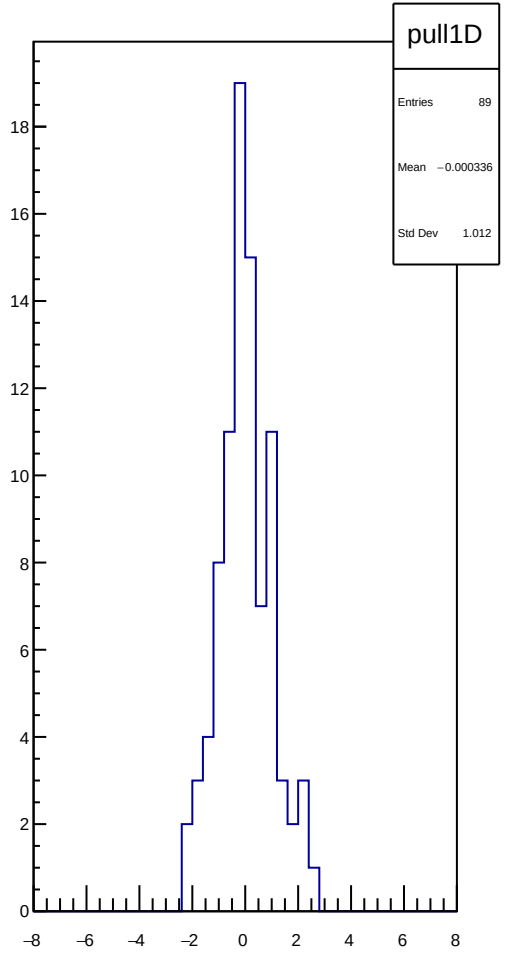

asym_bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 1830 / 88
p0 23.33 ± 0.01772
25
24
23
22
21

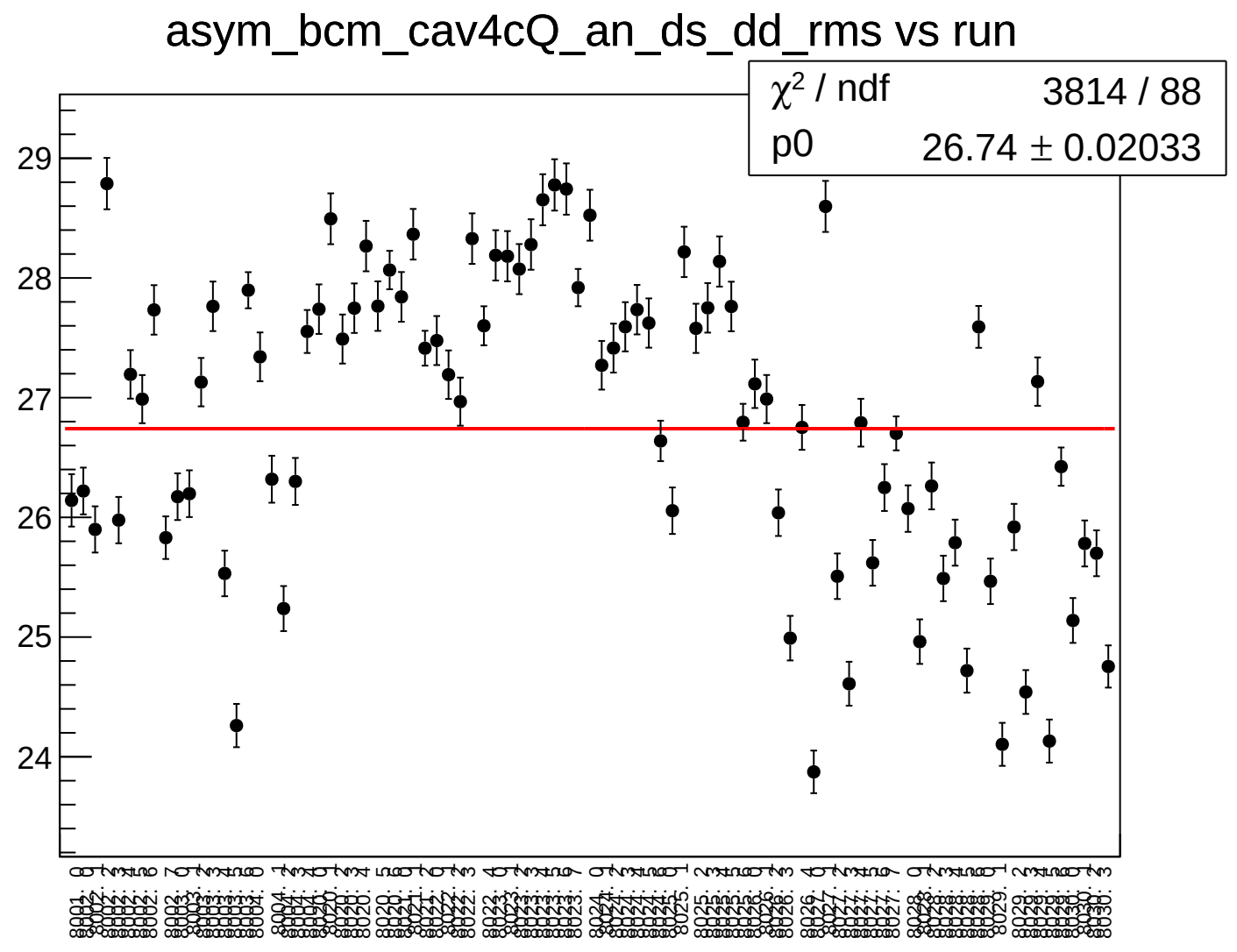

asym_bcm_cav4cQ_an_ds_avg_mean vs run
χ² / ndf 32.1 / 88
p0 532.3 ± 185.5
pull
Entries 89
Mean −394.5
Std Dev 0

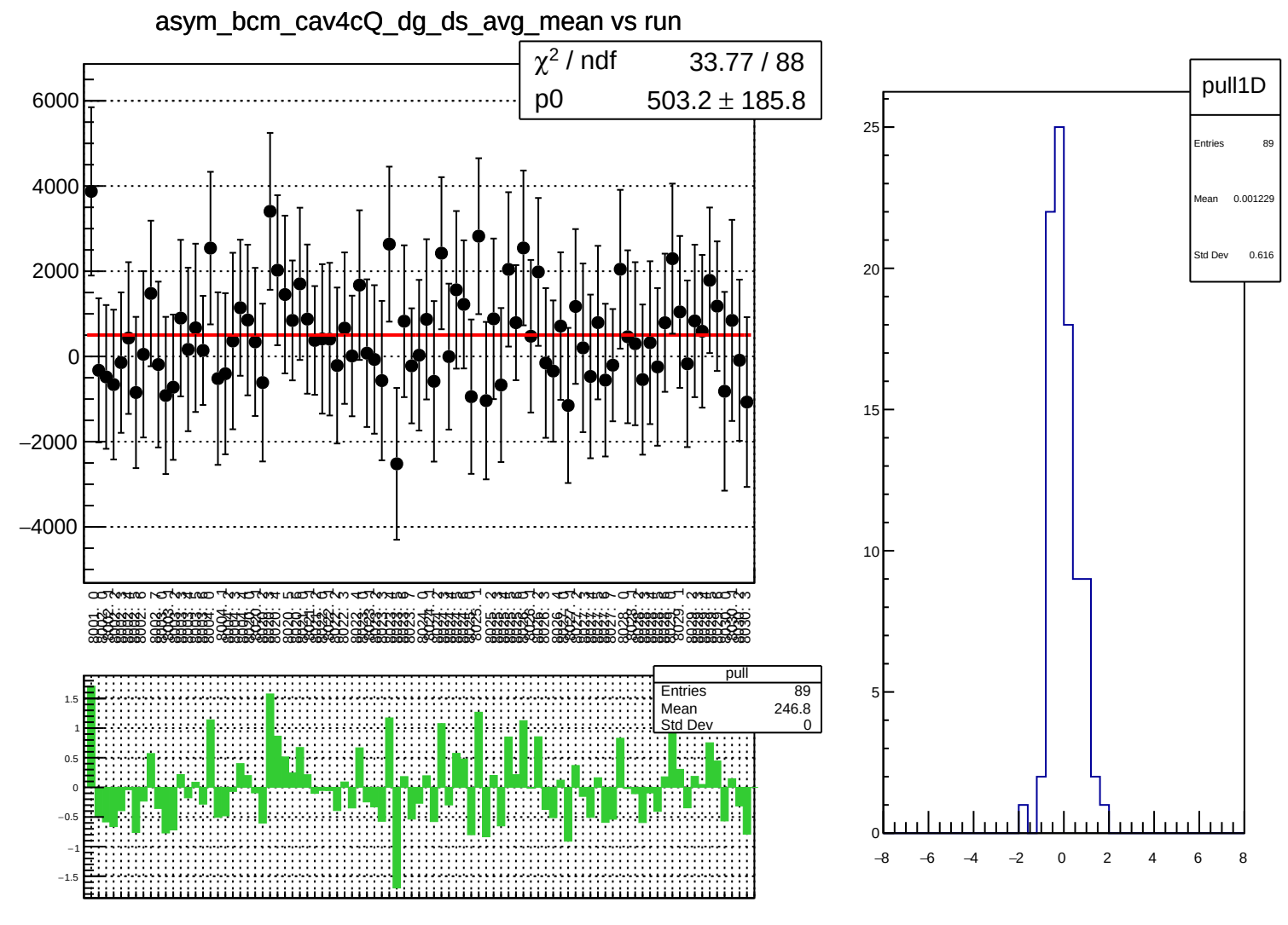

pull1D
Entries 89
Mean −0.0005947
Std Dev 0.6006

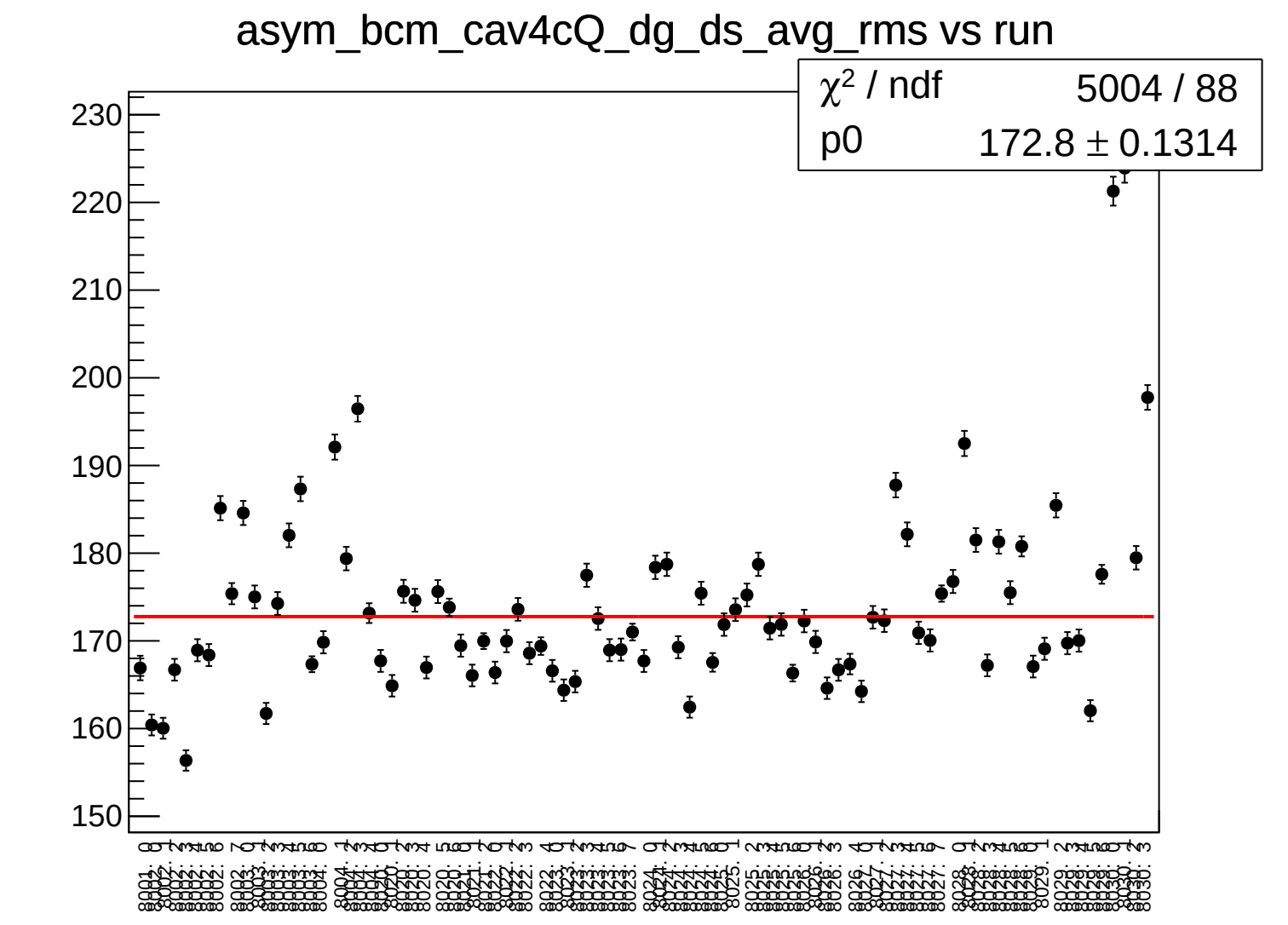

asym_bcm_cav4cQ_an_ds_avg_rms vs run
χ² / ndf 5078 / 88
p0 172.5 ± 0.1311
230
220
210
200
190
180
170
160
150

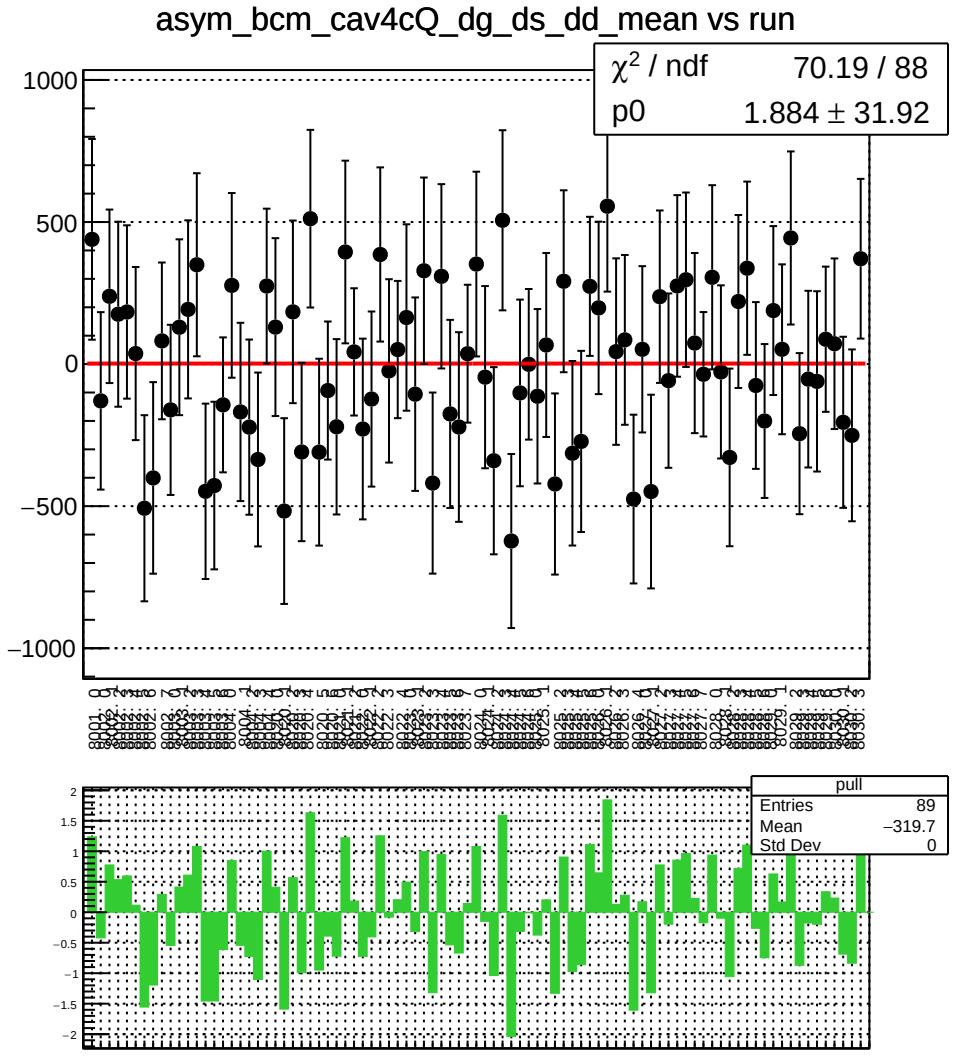

asym_bcm_cav4cQ_an_ds_dd_mean vs run
χ² / ndf 91.21 / 88
p0 −23.25 ± 28.74
1000
500
0
−500
−1000
pull
Entries 89
Mean −4975
Std Dev 0
2
1
0
−1
−2

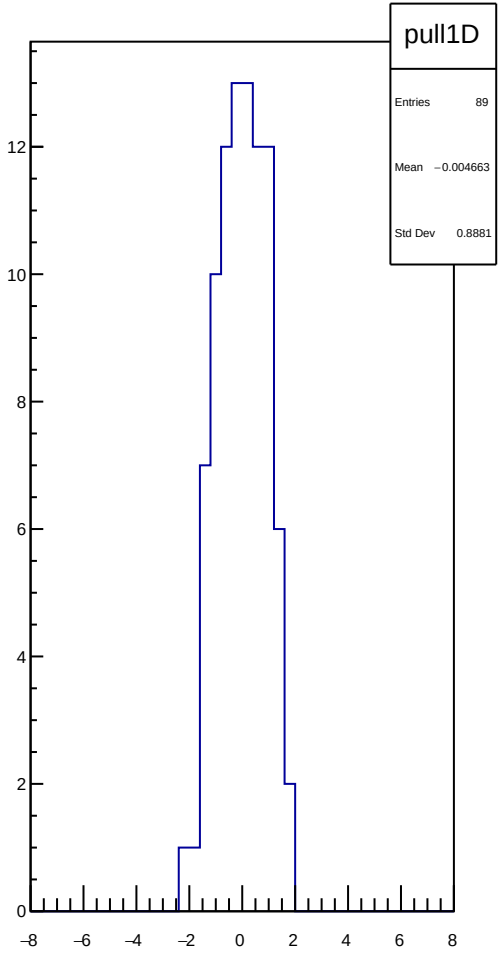

pull1D
Entries 89
Mean −0.000336
Std Dev 1.012
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

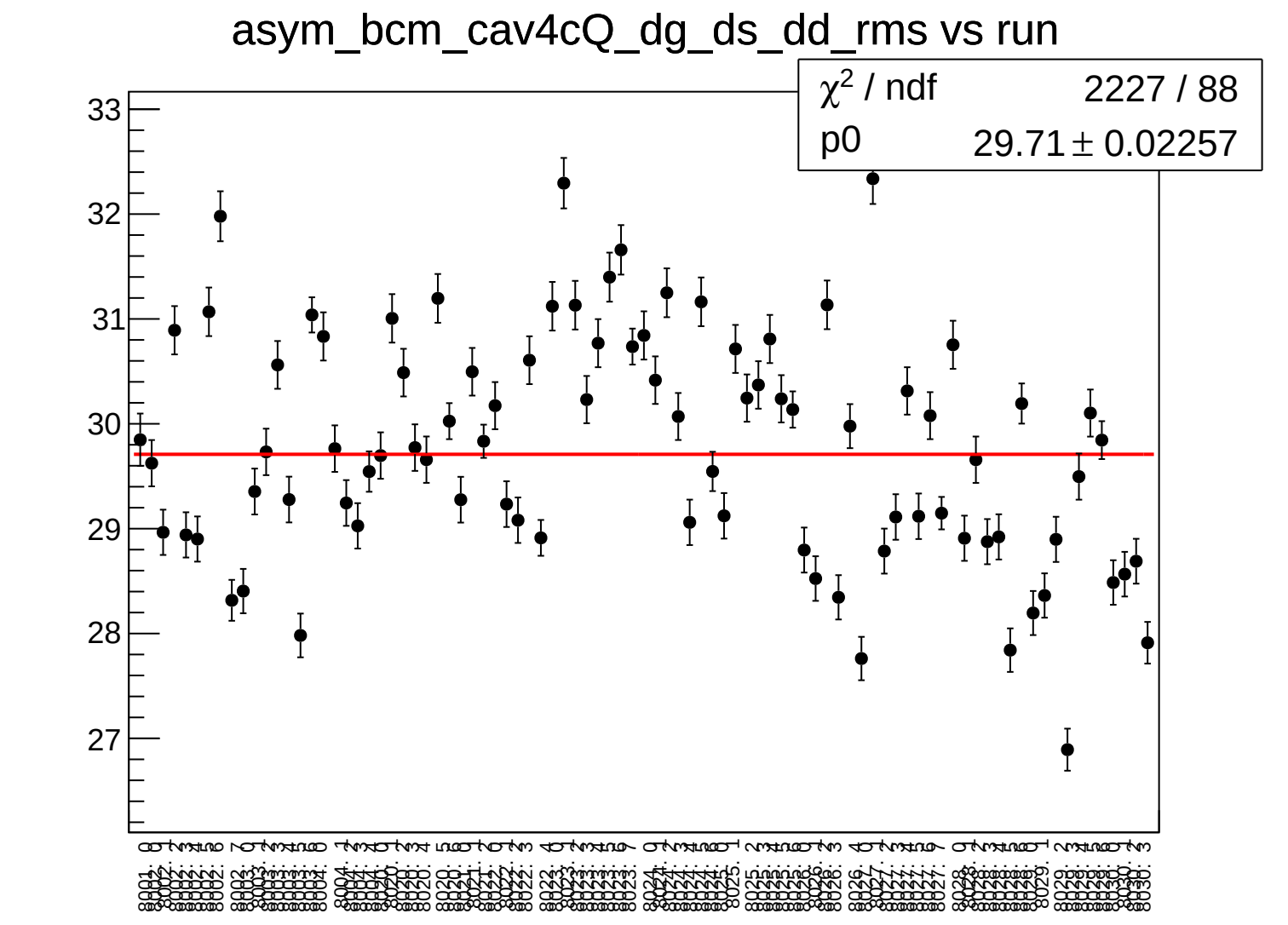

asym_bcm_cav4cQ_an_ds_dd_rms vs run
χ² / ndf 3814 / 88
p0 26.74 ± 0.02033
29
28
27
26
25
24

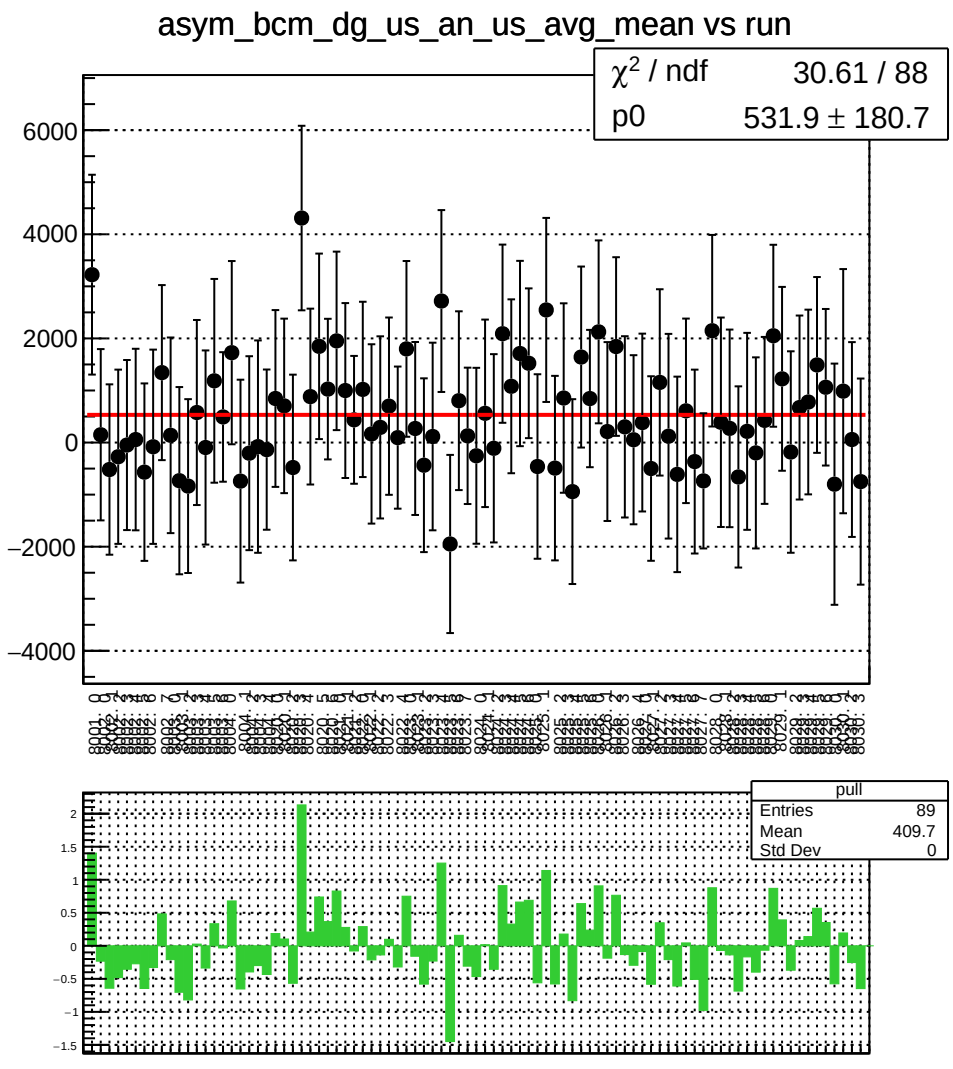

asym_bcm_cav4cQ_dg_ds_avg_mean vs run
χ² / ndf 33.77 / 88
p0 503.2 ± 185.8
6000
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 246.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 89
Mean 0.001229
Std Dev 0.616
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

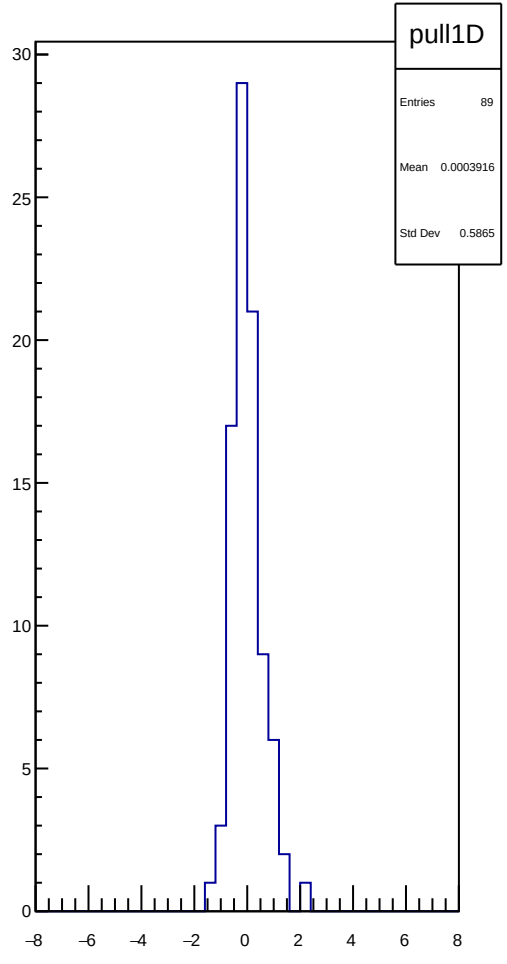

asym_bcm_cav4cQ_dg_ds_avg_rms vs run
χ² / ndf 5004 / 88
p0 172.8 ± 0.1314
230
220
210
200
190
180
170
160
150

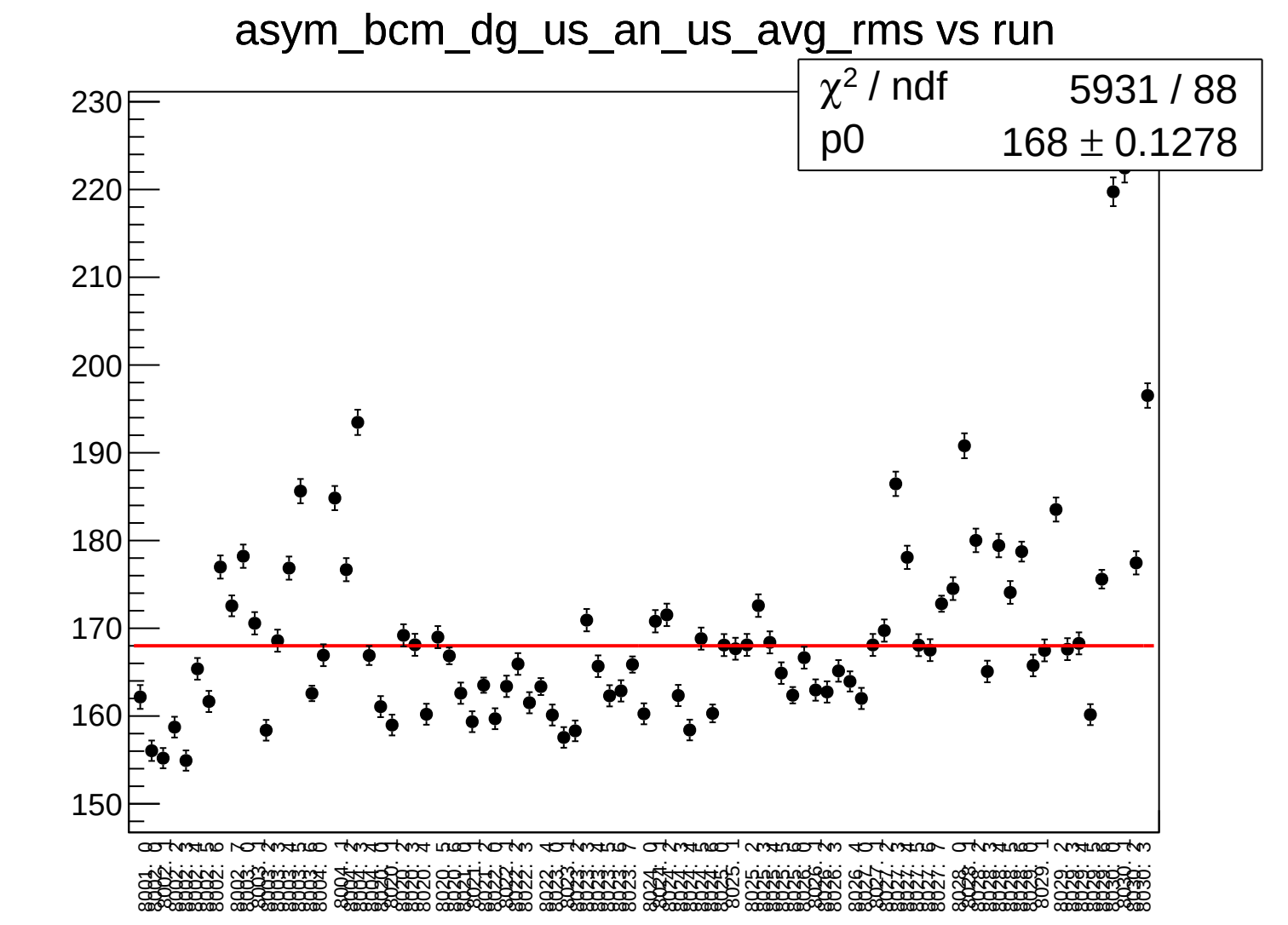

asym_bcm_cav4cQ_dg_ds_dd_mean vs run
χ² / ndf 70.19 / 88
p0 1.884 ± 31.92
1000
500
0
−500
−1000
pull
Entries 89
Mean −319.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

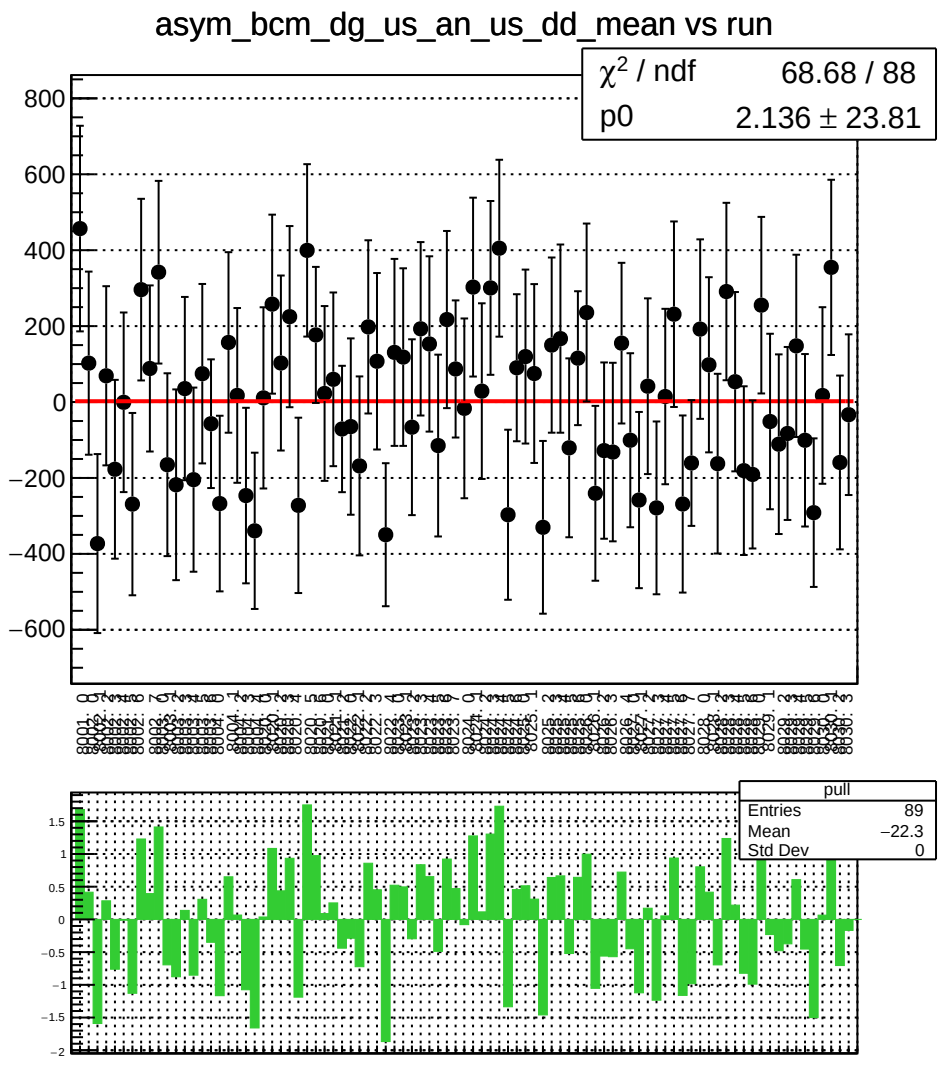

pull1D
Entries 89
Mean −0.004663
Std Dev 0.8881
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

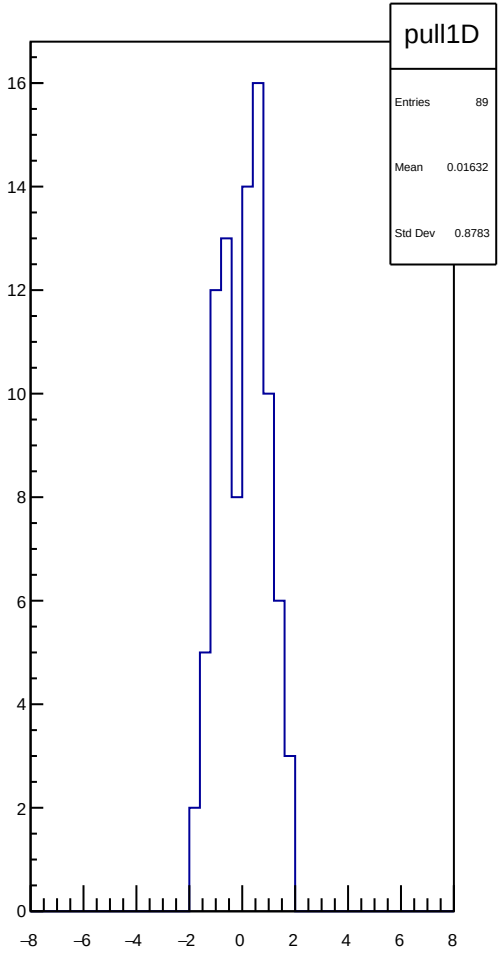

asym_bcm_cav4cQ_dg_ds_dd_rms vs run
χ² / ndf 2227 / 88
p0 29.71 ± 0.02257
33
32
31
30
29
28
27

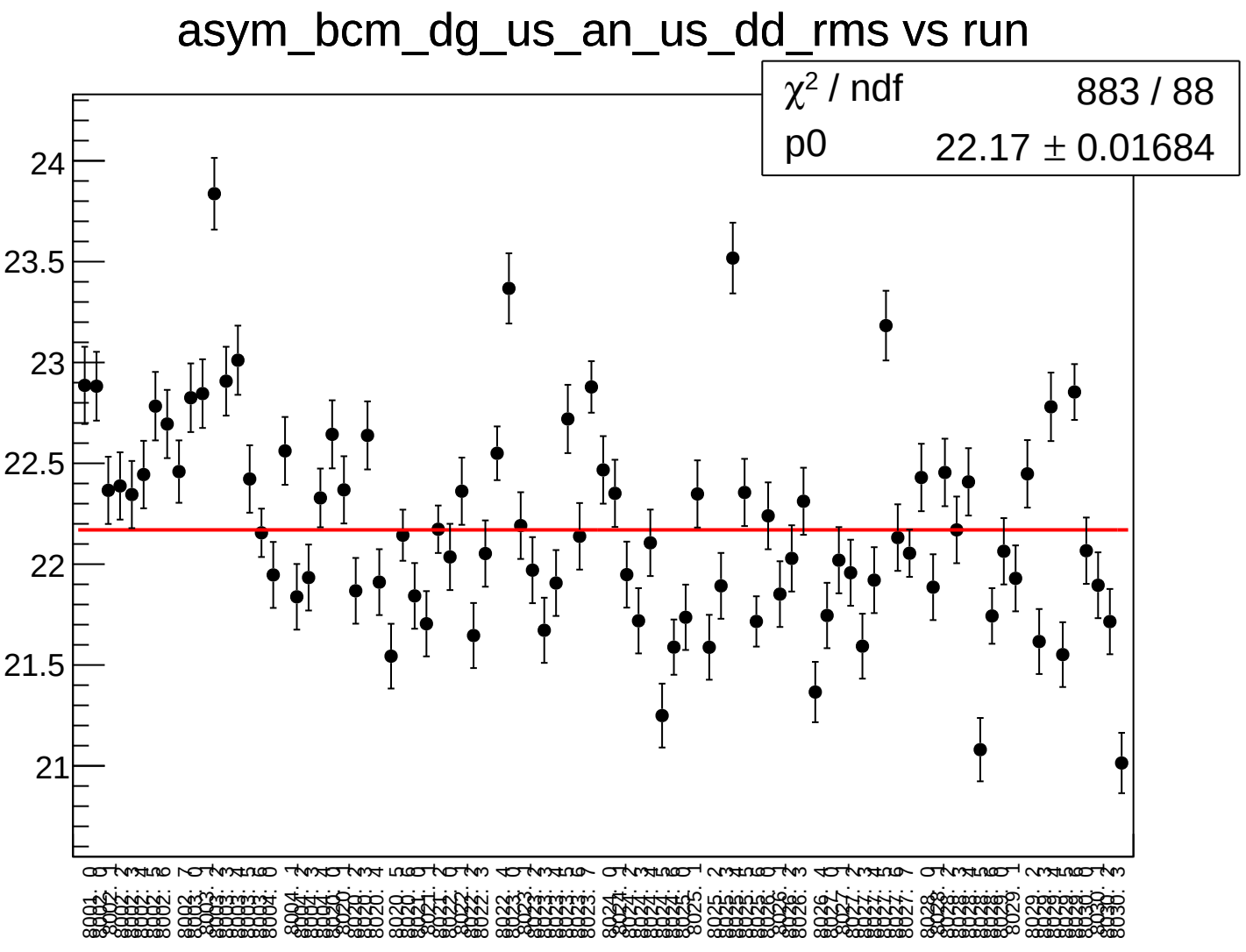

asym_bcm_dg_us_an_us_avg_mean vs run
χ² / ndf 30.61 / 88
p0 531.9 ± 180.7
6000
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 409.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

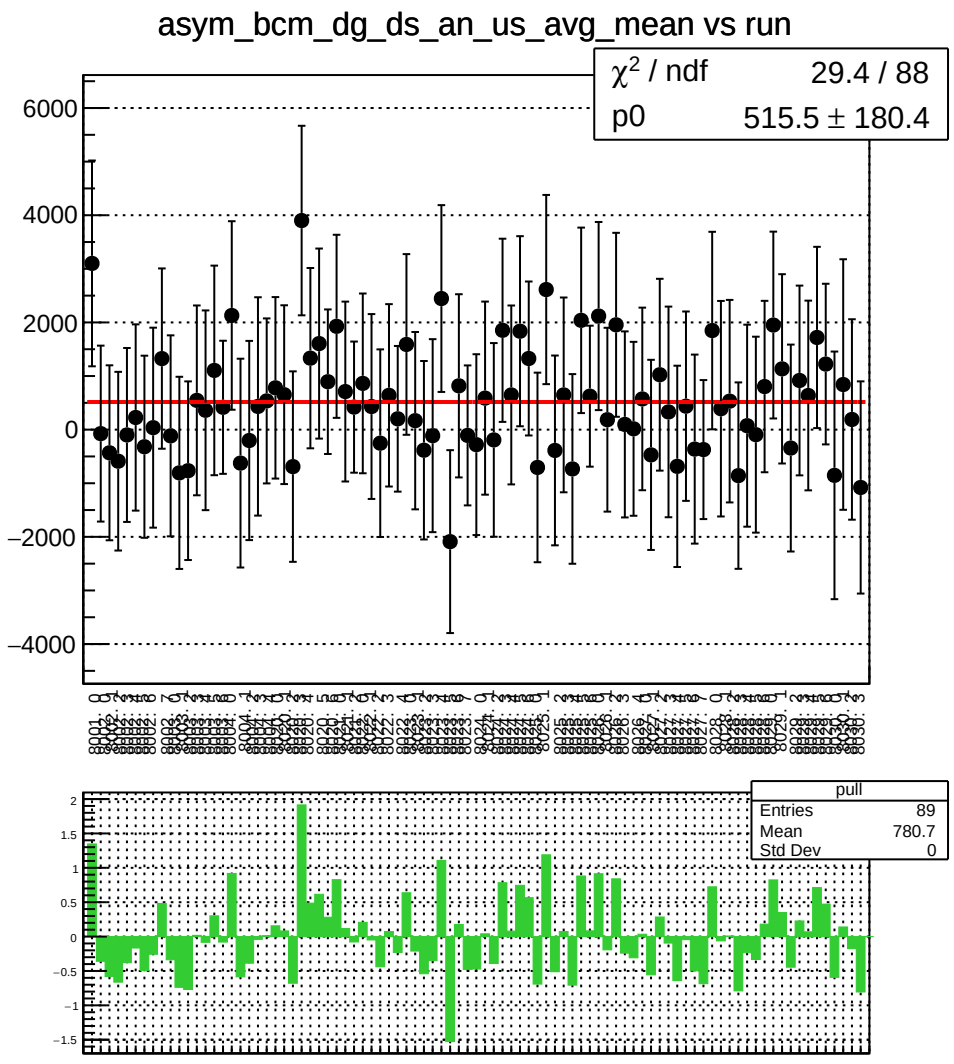

pull1D
Entries 89
Mean 0.0003916
Std Dev 0.5865
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

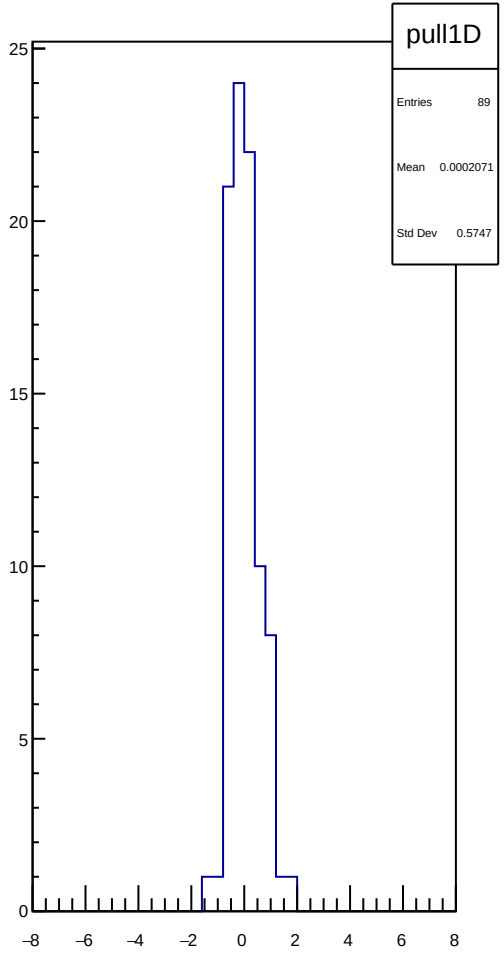

asym_bcm_dg_us_an_us_avg_rms vs run
χ^2 / ndf 5931 / 88
p0 168 ± 0.1278
230
220
210
200
190
180
170
160
150

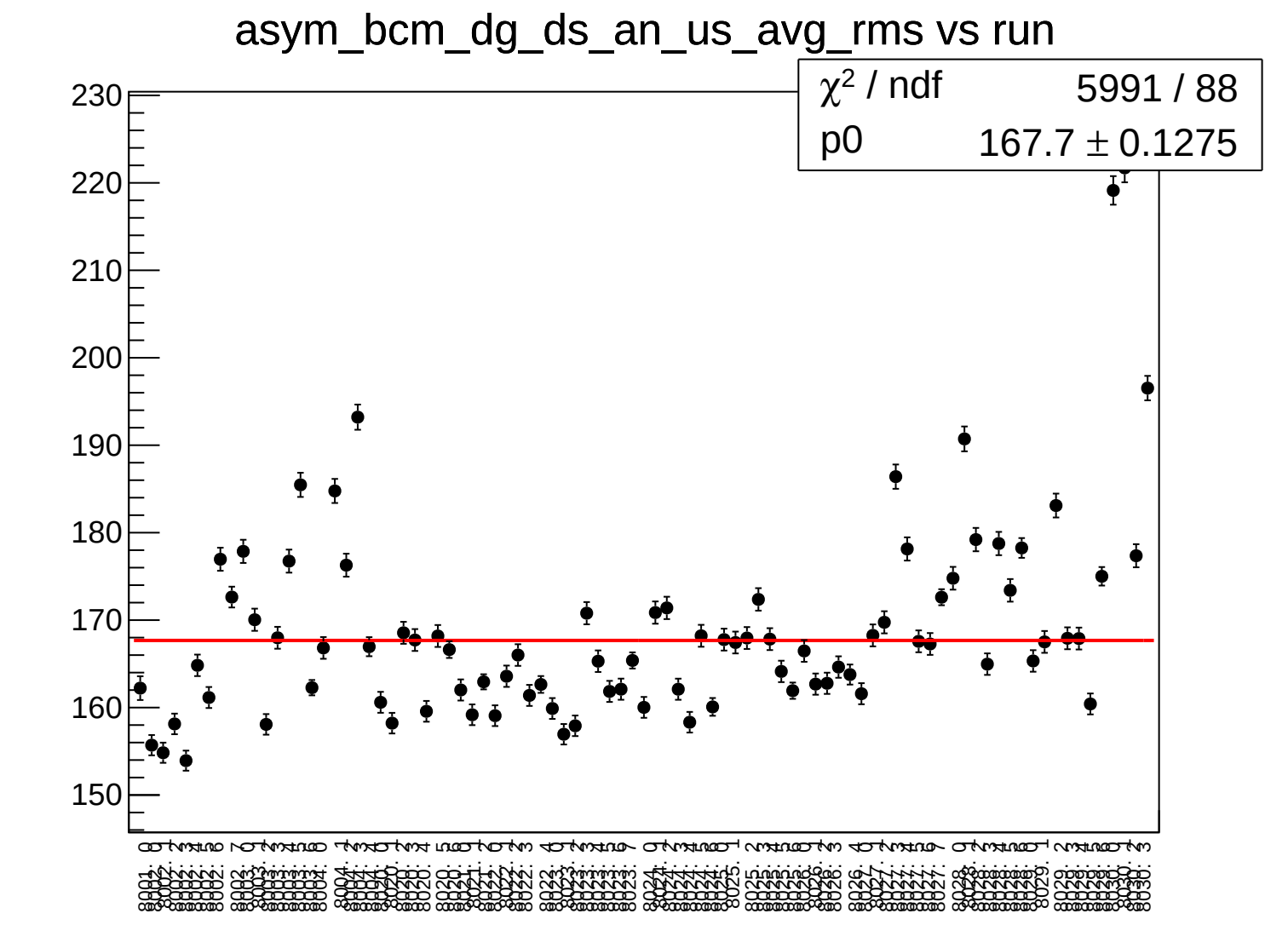

asym_bcm_dg_us_an_us_dd_mean vs run
χ² / ndf 68.68 / 88
p0 2.136 ± 23.81
pull
Entries 89
Mean −22.3
Std Dev 0

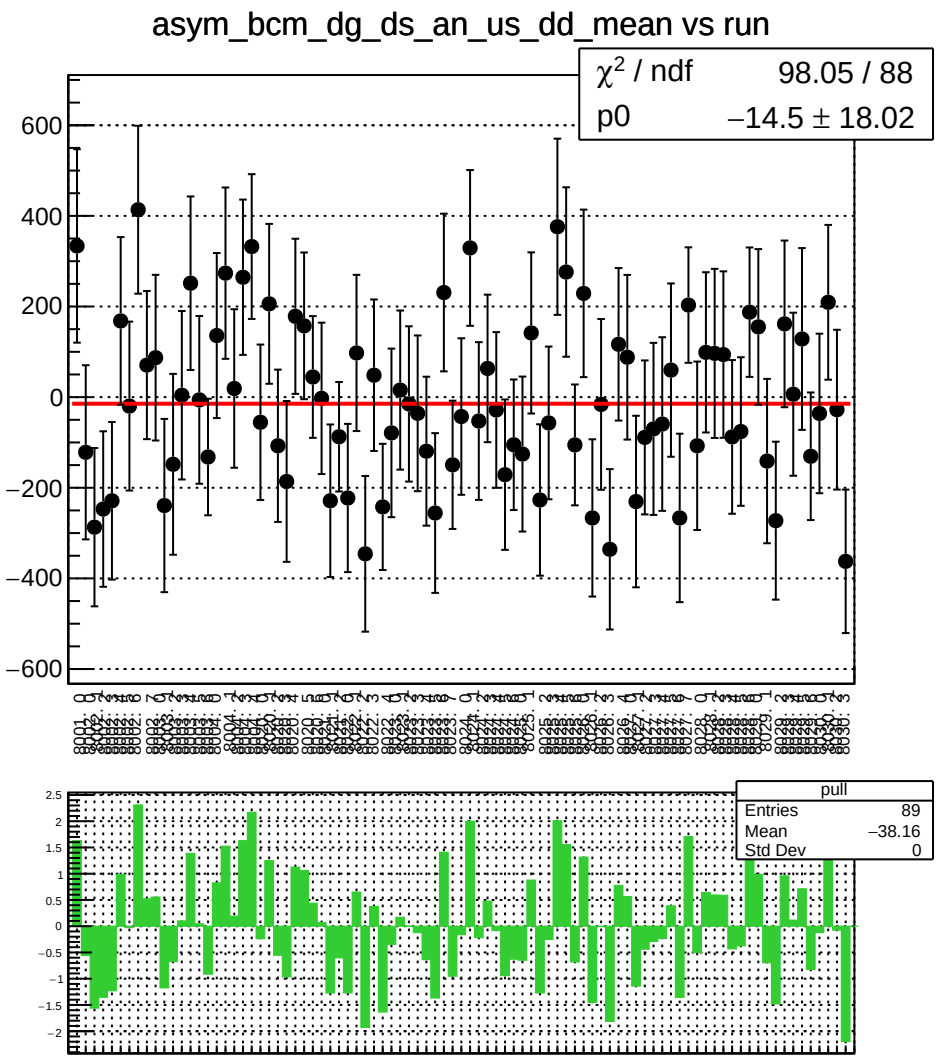

pull1D
Entries 89
Mean 0.01632
Std Dev 0.8783

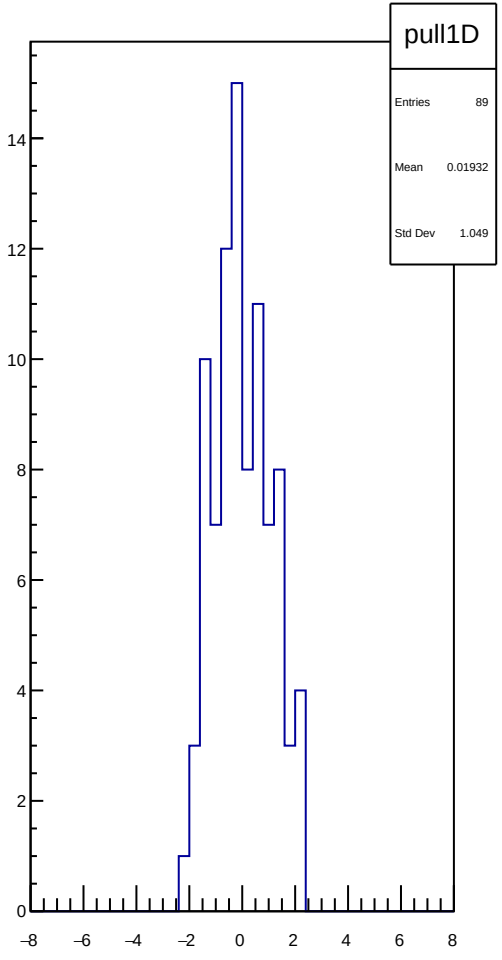

asym_bcm_dg_us_an_us_dd_rms vs run
χ^2 / ndf 883 / 88
p0 22.17 ± 0.01684
24
23.5
23
22.5
22
21.5
21

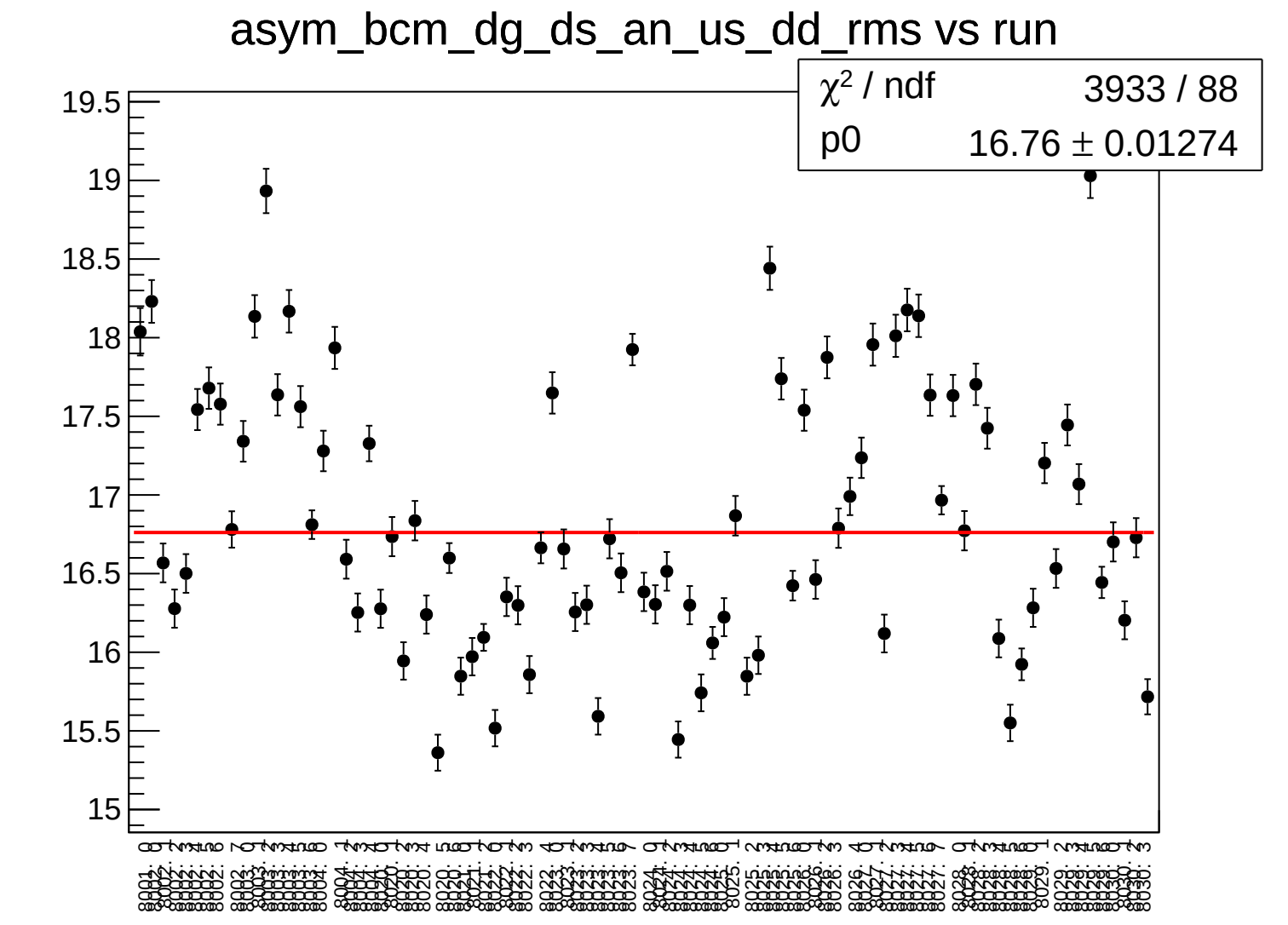

asym_bcm_dg_ds_an_us_avg_mean vs run
χ² / ndf 29.4 / 88
p0 515.5 ± 180.4
6000
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 780.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

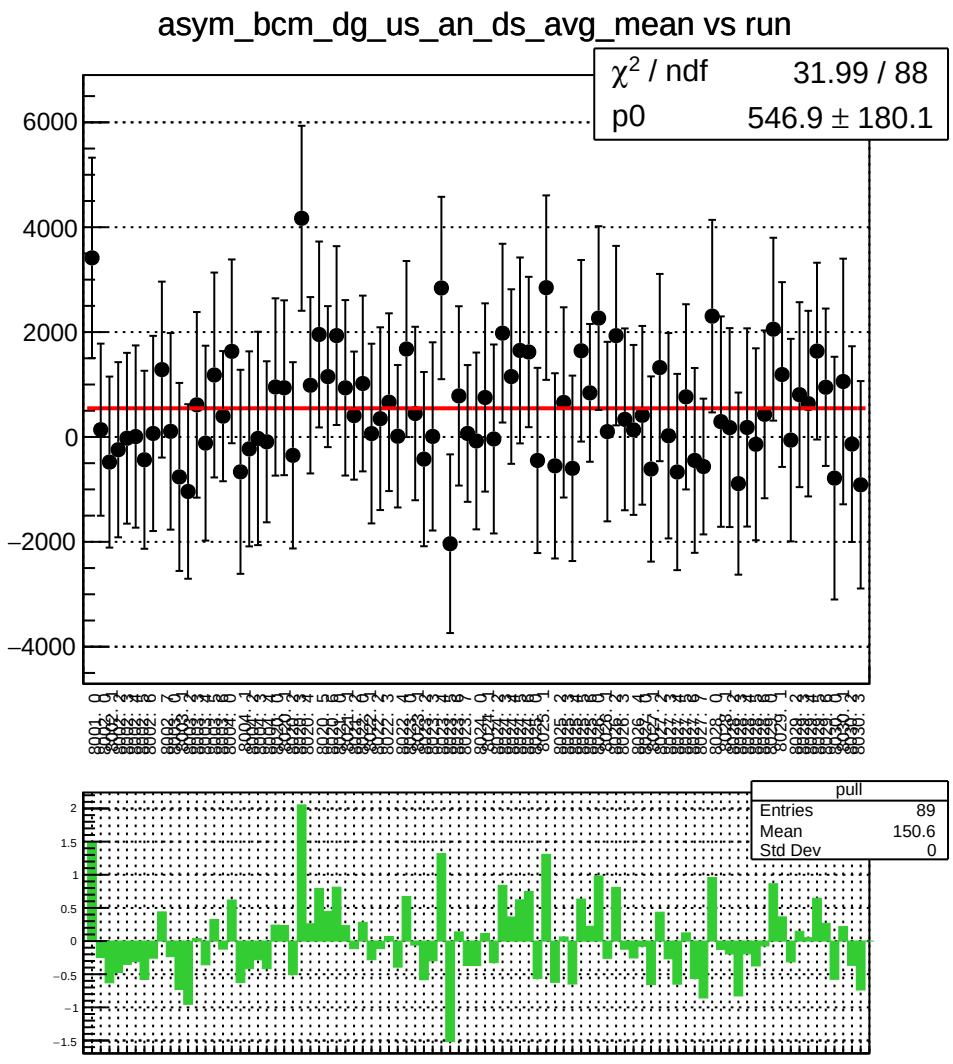

pull1D
Entries 89
Mean 0.0002071
Std Dev 0.5747
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

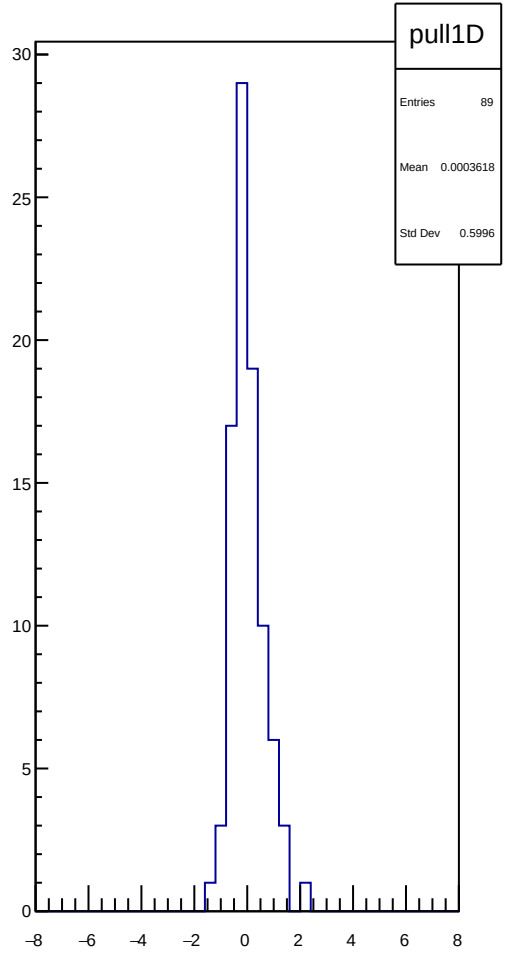

asym_bcm_dg_ds_an_us_avg_rms vs run
χ^2 / ndf 5991 / 88
p0 167.7 ± 0.1275
230
220
210
200
190
180
170
160
150

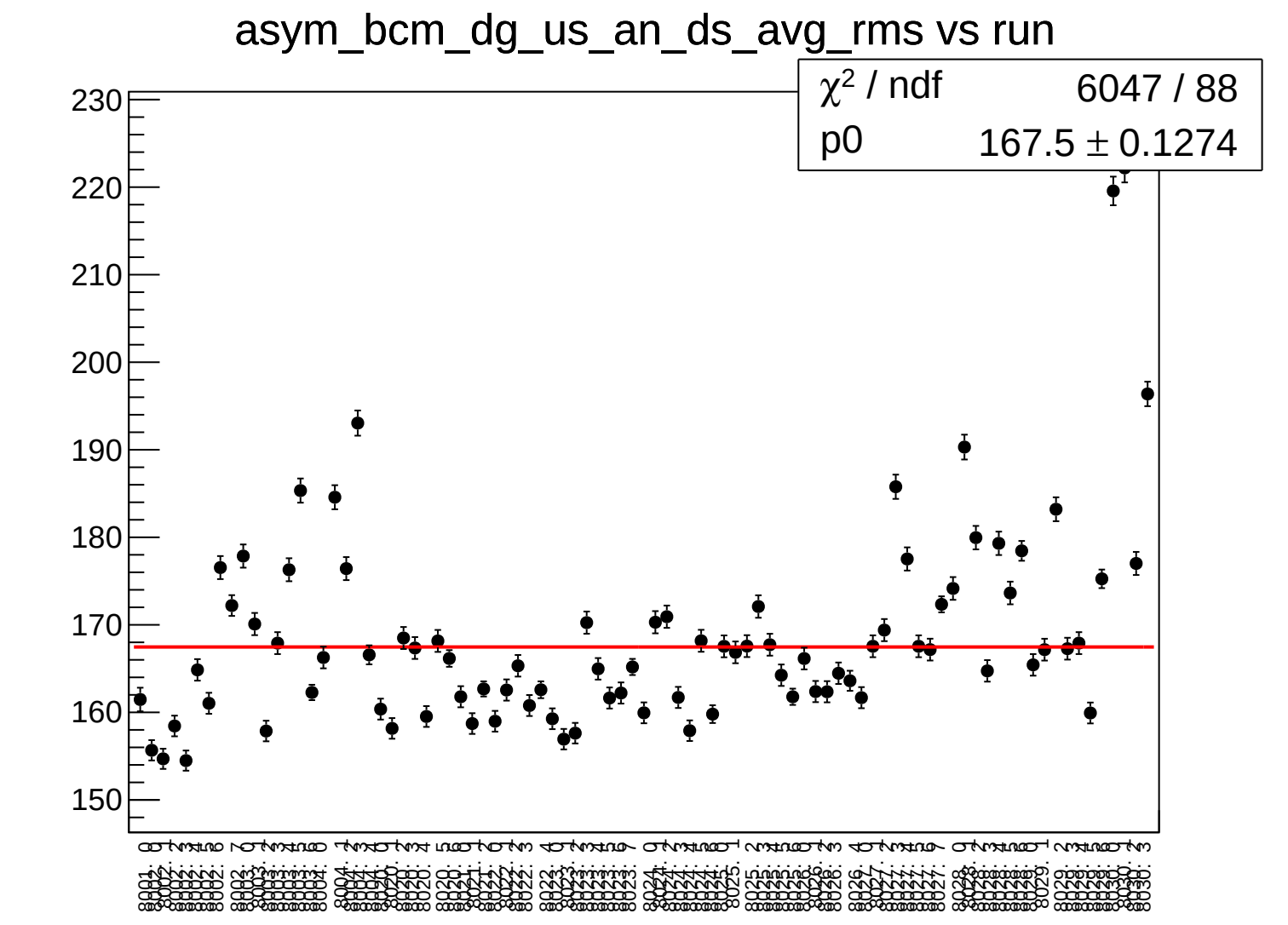

asym_bcm_dg_ds_an_us_dd_mean vs run
χ² / ndf 98.05 / 88
p0 −14.5 ± 18.02
pull
Entries 89
Mean −38.16
Std Dev 0

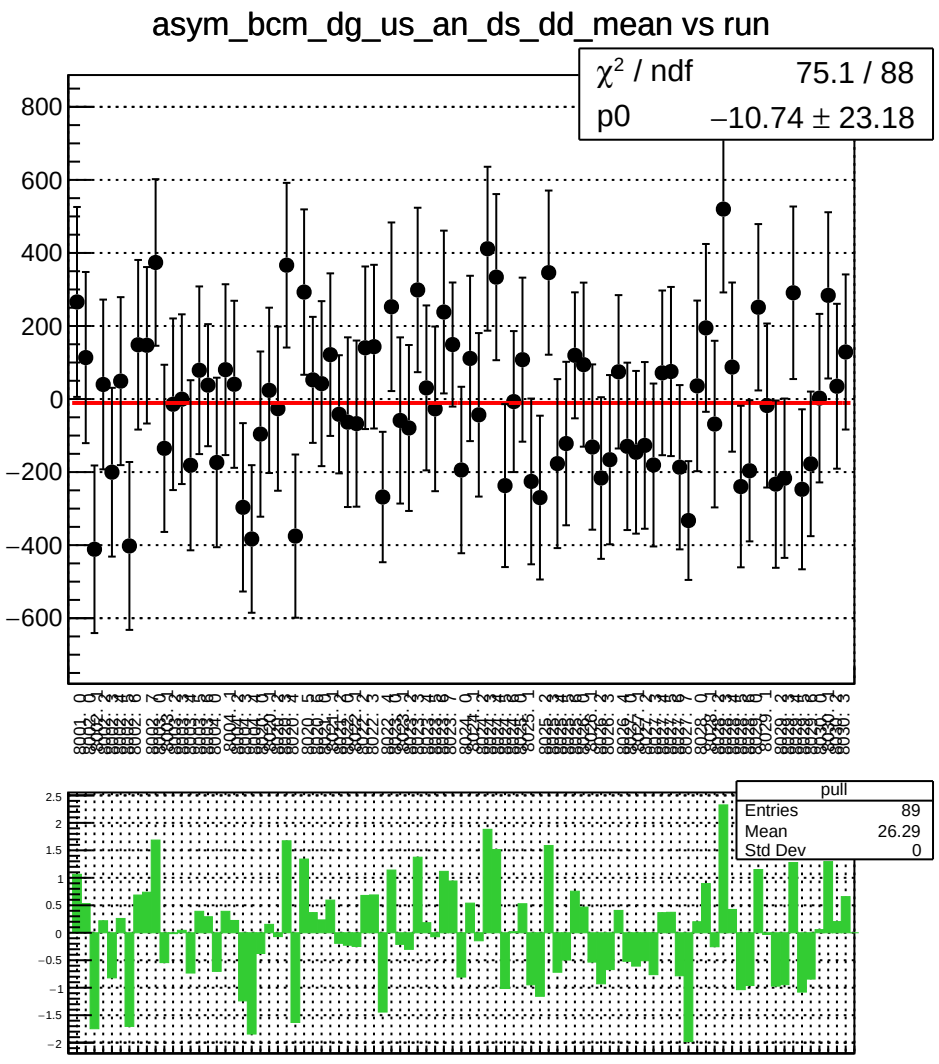

pull1D
Entries 89
Mean 0.01932
Std Dev 1.049

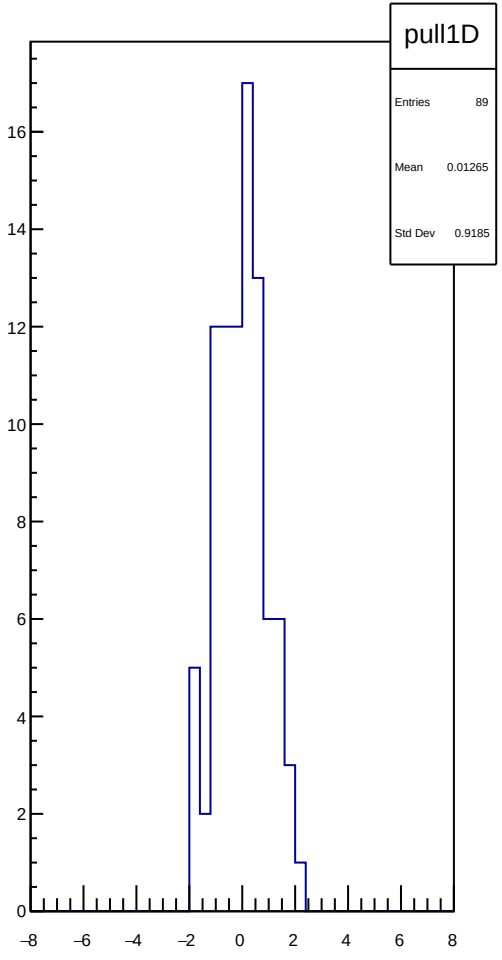

asym_bcm_dg_ds_an_us_dd_rms vs run
χ² / ndf 3933 / 88
p0 16.76 ± 0.01274
19.5
19
18.5
18
17.5
17
16.5
16
15.5
15

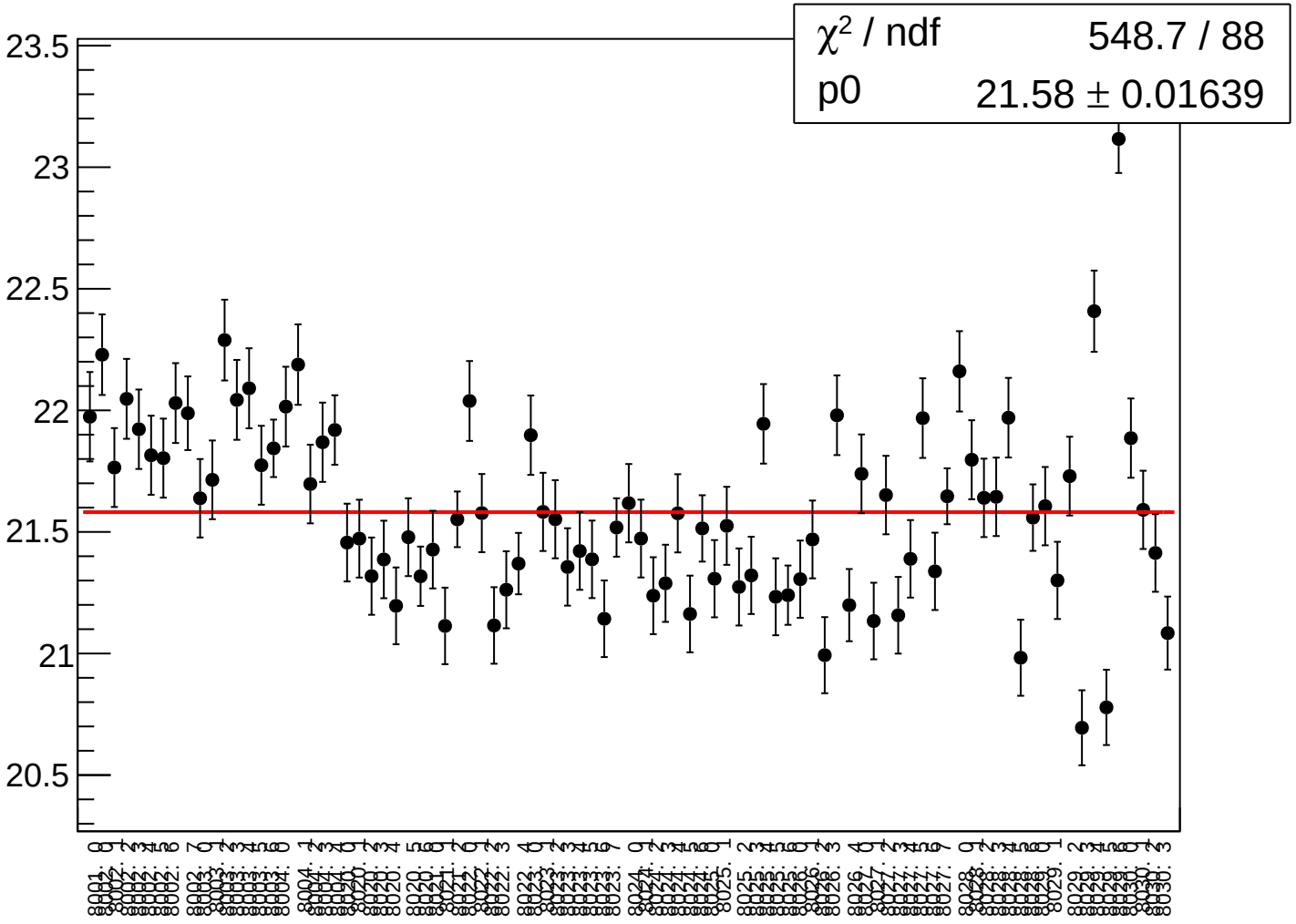

asym_bcm_dg_us_an_ds_avg_mean vs run
χ² / ndf 31.99 / 88
p0 546.9 ± 180.1
6000
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 150.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

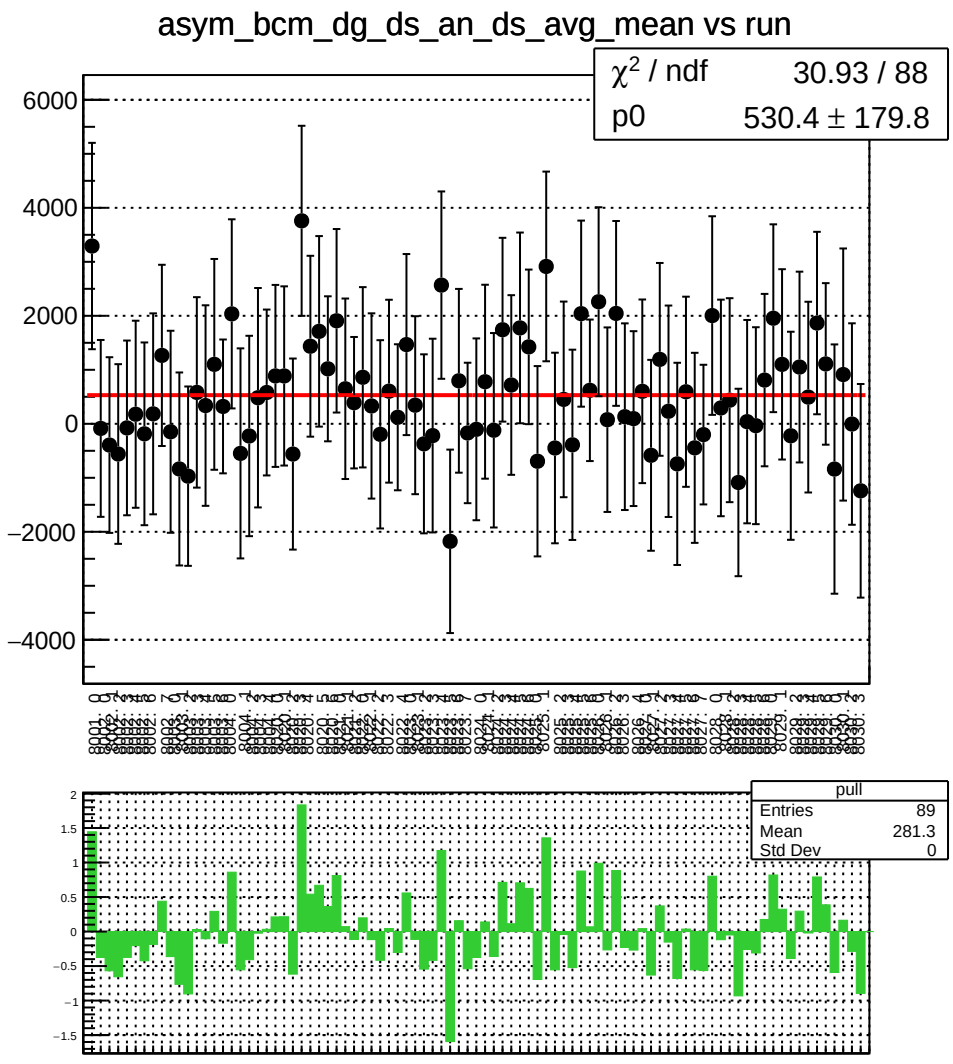

pull1D
Entries 89
Mean 0.0003618
Std Dev 0.5996
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

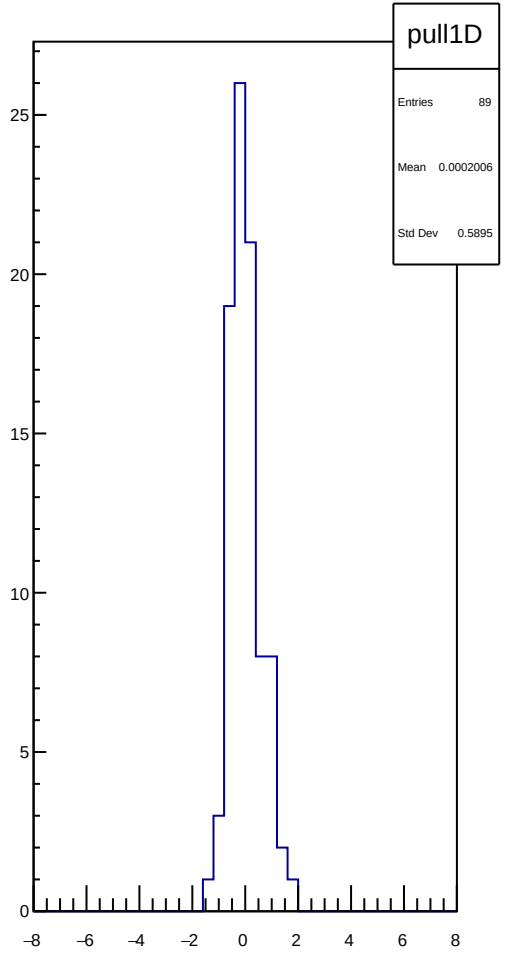

asym_bcm_dg_us_an_ds_avg_rms vs run
χ² / ndf 6047 / 88
p0 167.5 ± 0.1274
230
220
210
200
190
180
170
160
150

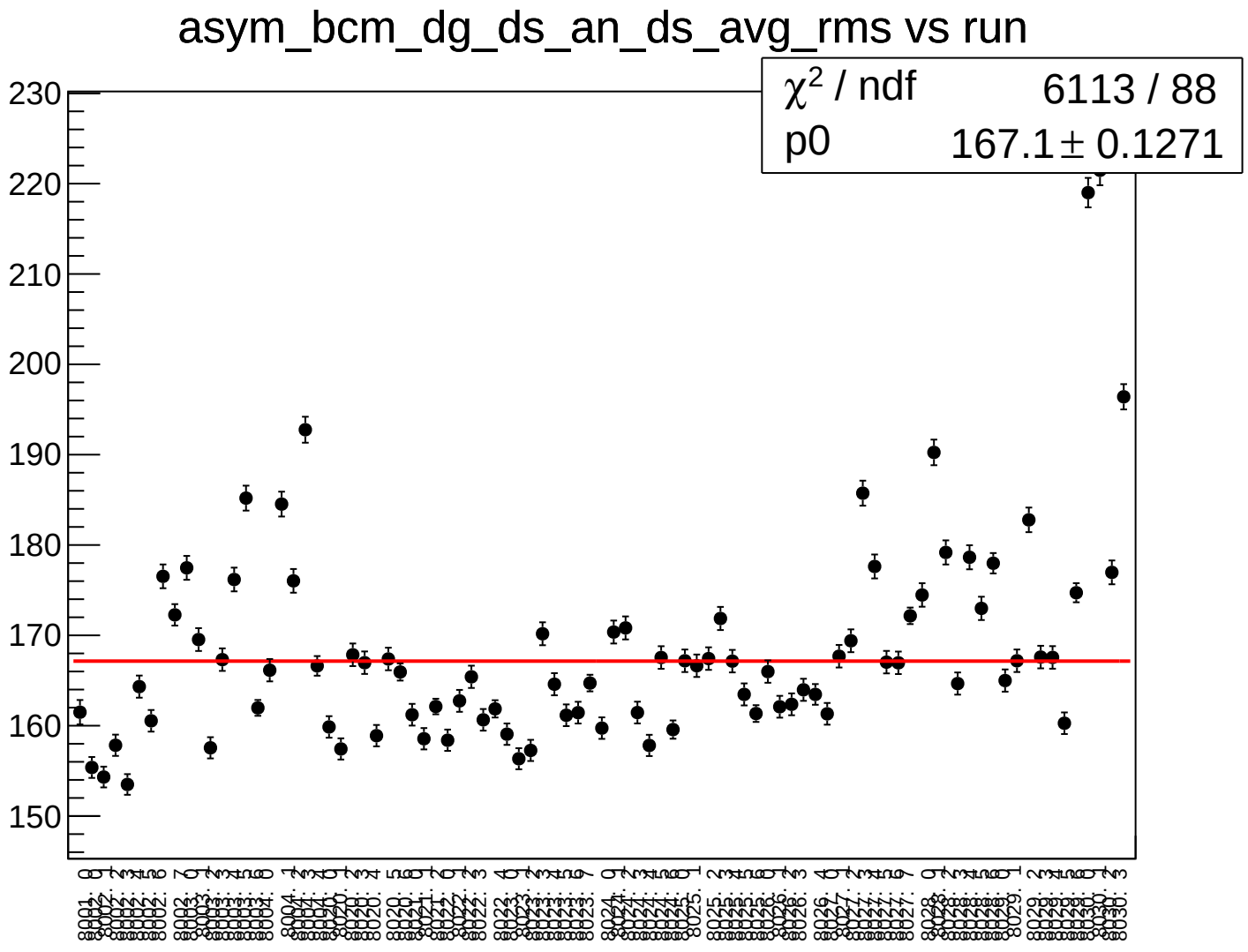

asym_bcm_dg_us_an_ds_dd_mean vs run
χ² / ndf 75.1 / 88
p0 −10.74 ± 23.18
pull
Entries 89
Mean 26.29
Std Dev 0

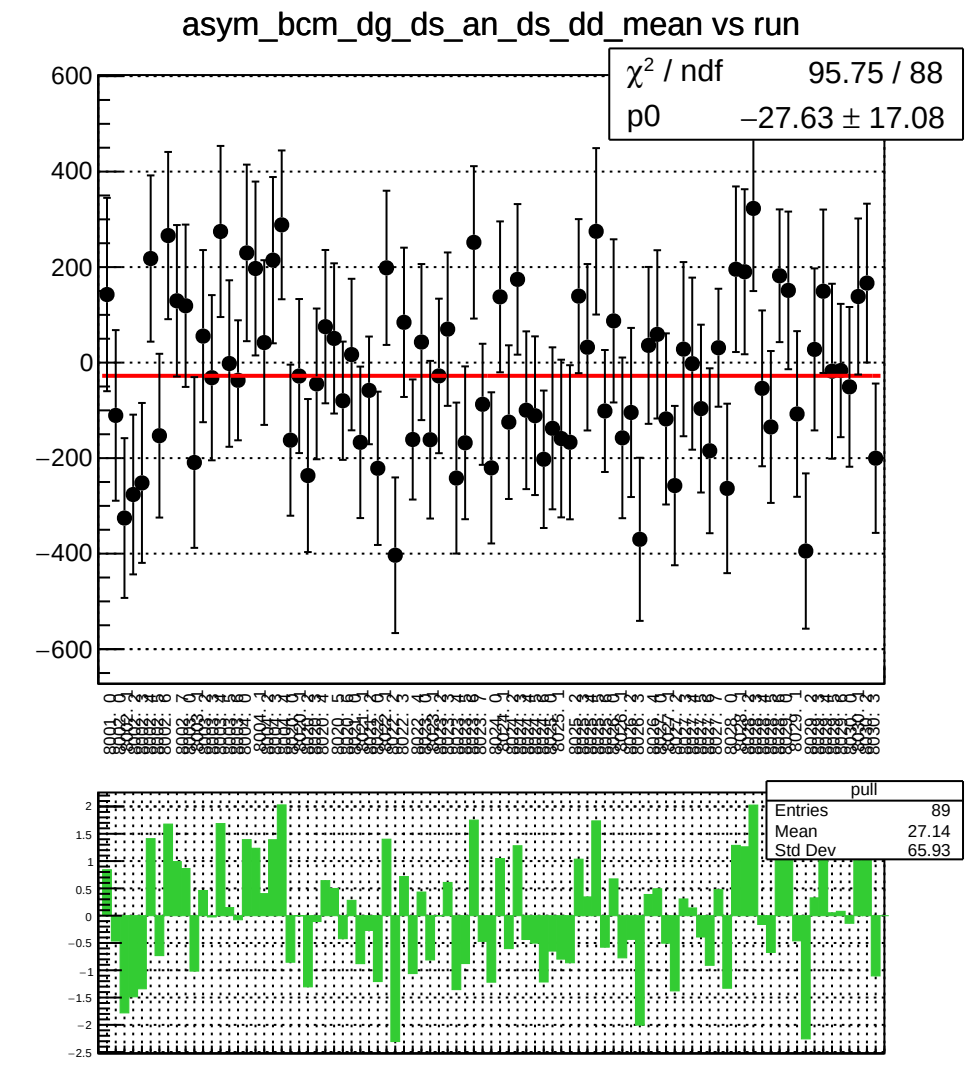

pull1D
Entries 89
Mean 0.01265
Std Dev 0.9185

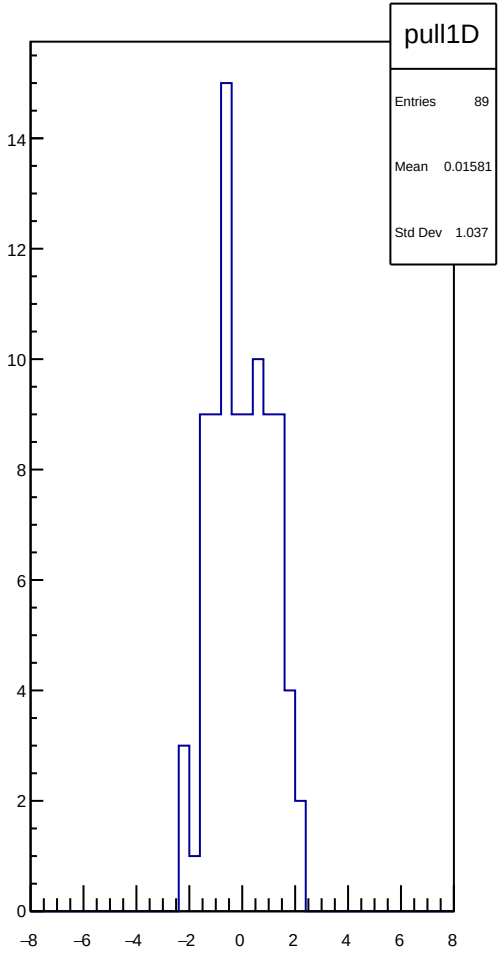

asym_bcm_dg_us_an_ds_dd_rms vs run
χ² / ndf 548.7 / 88
p0 21.58 ± 0.01639
23.5
23
22.5
22
21.5
21
20.5

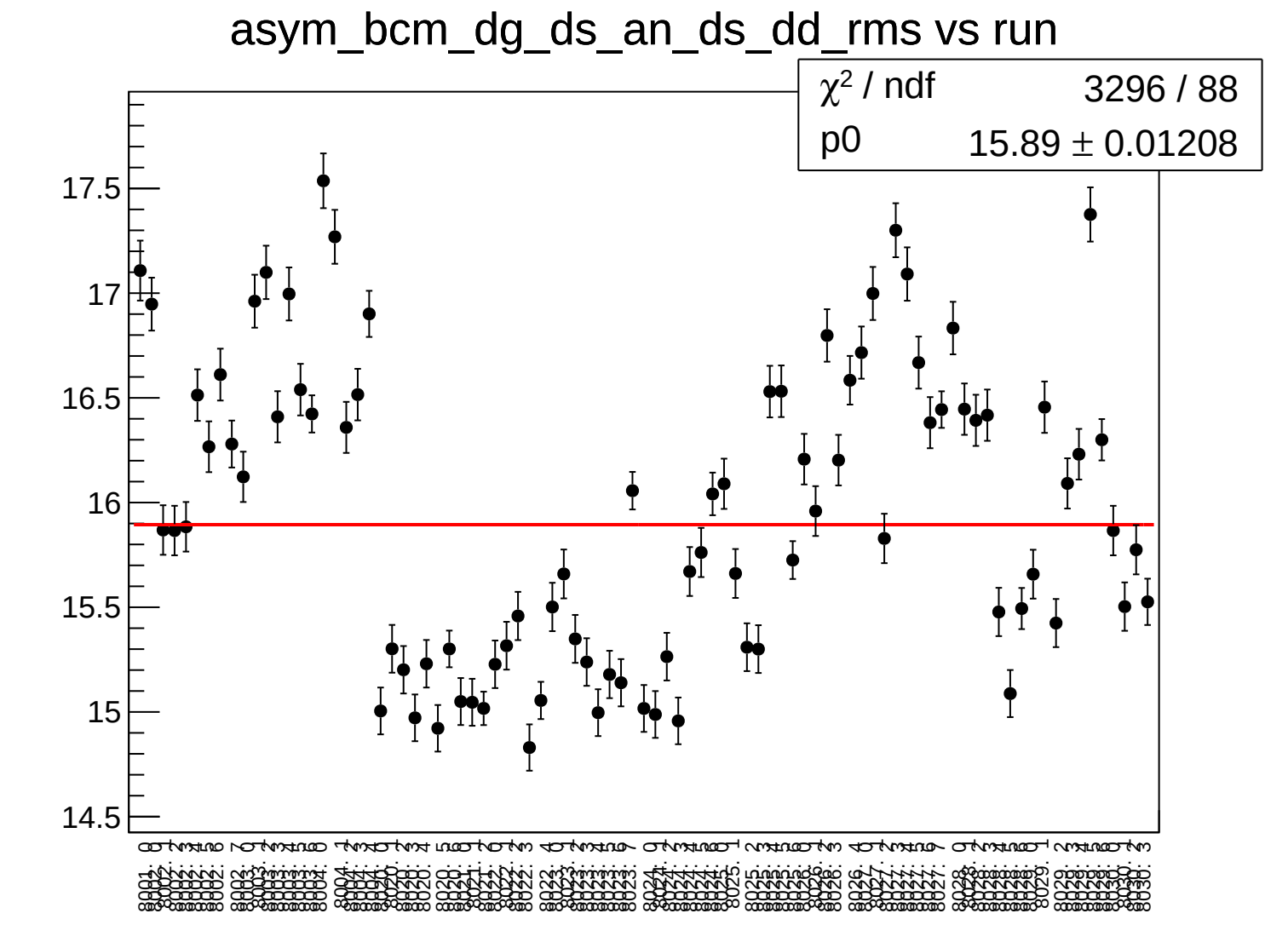

asym_bcm_dg_ds_an_ds_avg_mean vs run
χ² / ndf 30.93 / 88
p0 530.4 ± 179.8
6000
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 281.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

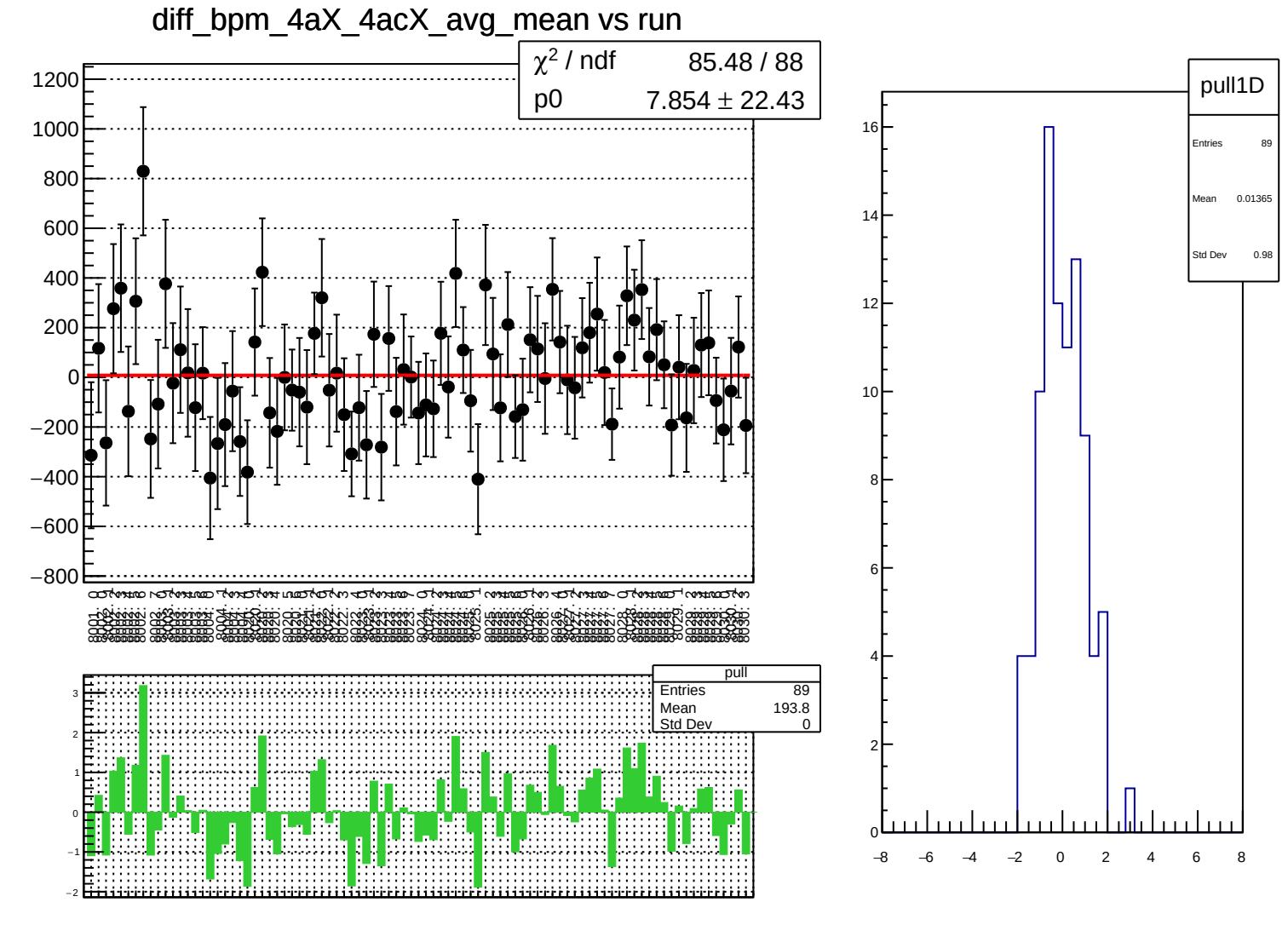

pull1D
Entries 89
Mean 0.0002006
Std Dev 0.5895
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

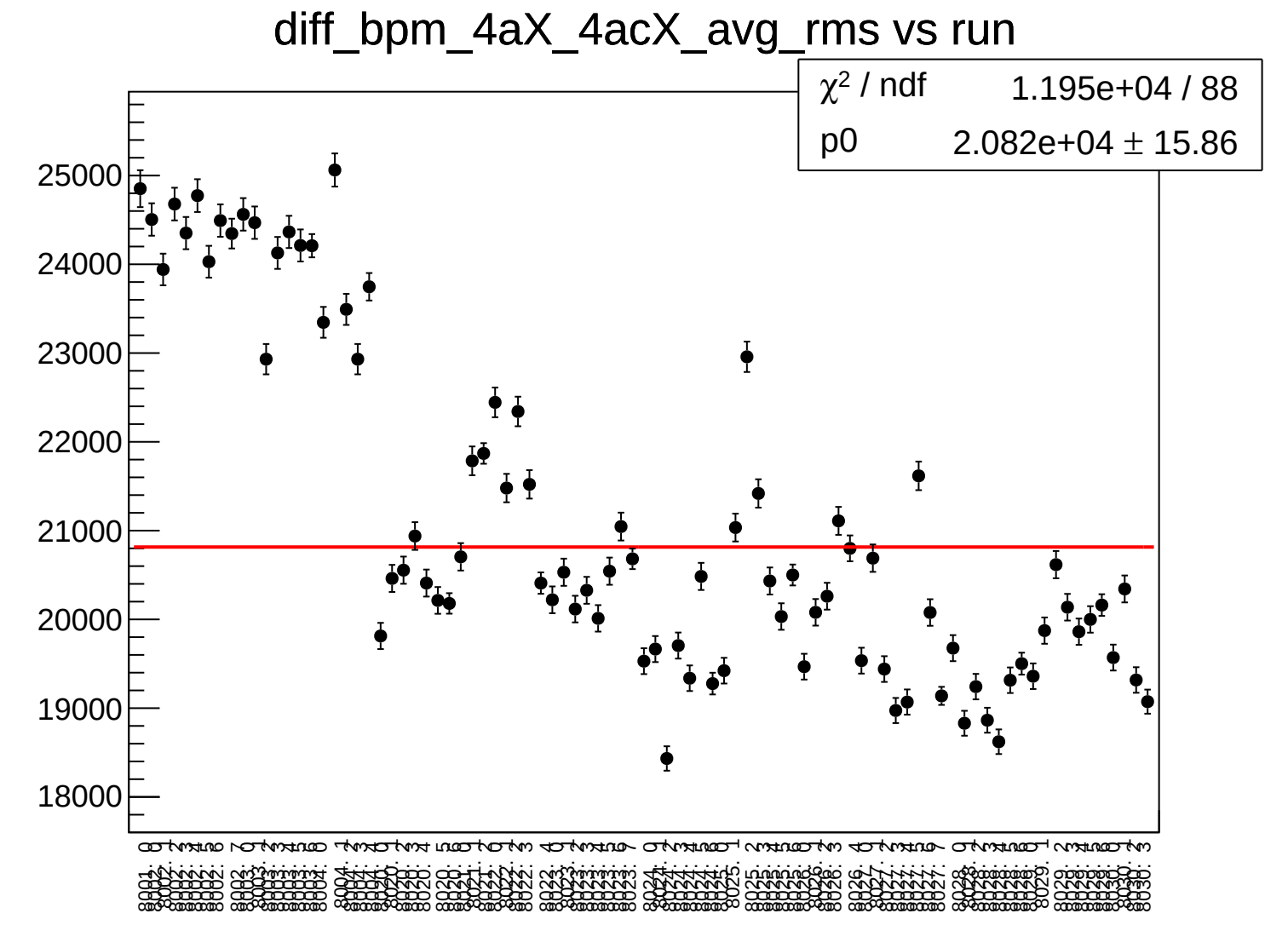

asym_bcm_dg_ds_an_ds_avg_rms vs run
χ^2 / ndf 6113 / 88
p0 167.1 ± 0.1271
230
220
210
200
190
180
170
160
150

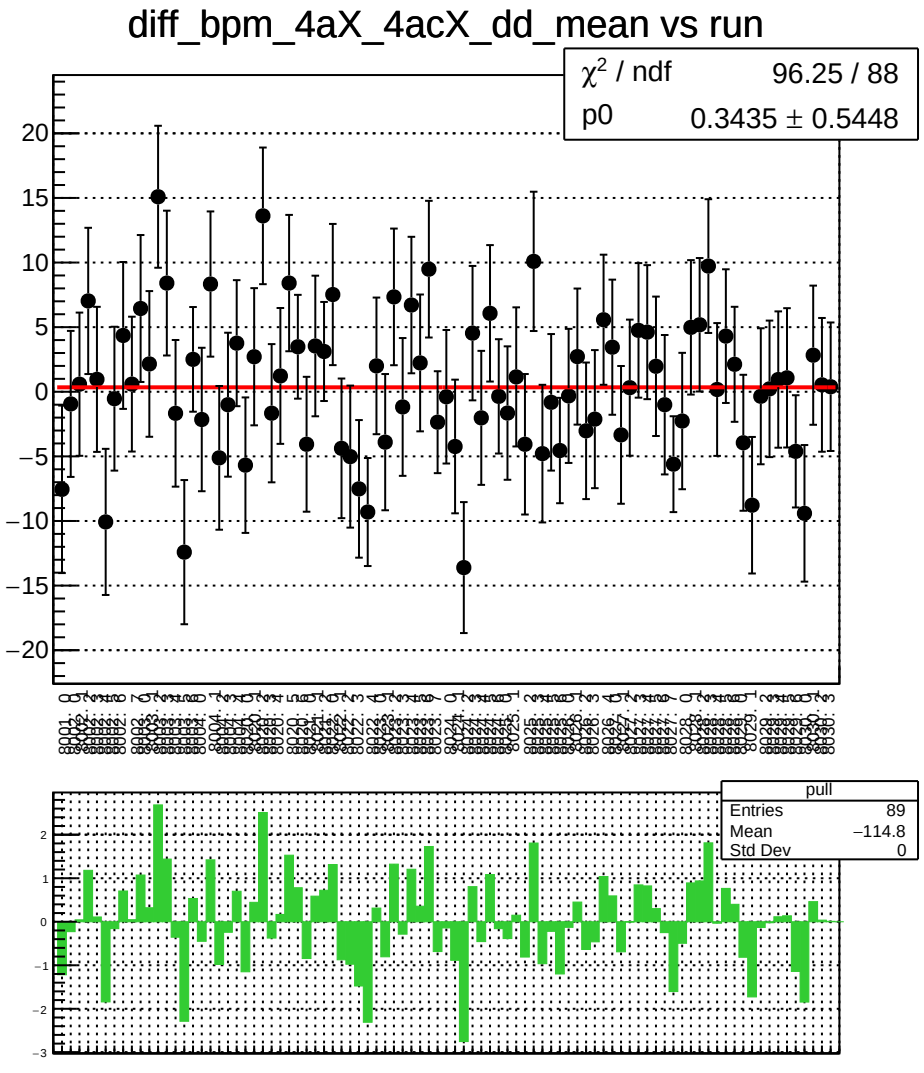

asym_bcm_dg_ds_an_ds_dd_mean vs run
χ² / ndf 95.75 / 88
p0 −27.63 ± 17.08
pull
Entries 89
Mean 27.14
Std Dev 65.93

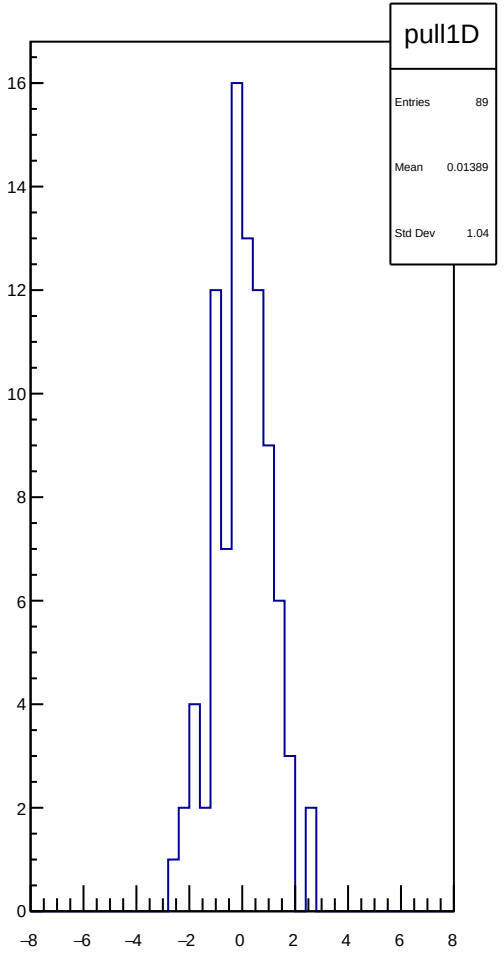

pull1D
Entries 89
Mean 0.01581
Std Dev 1.037

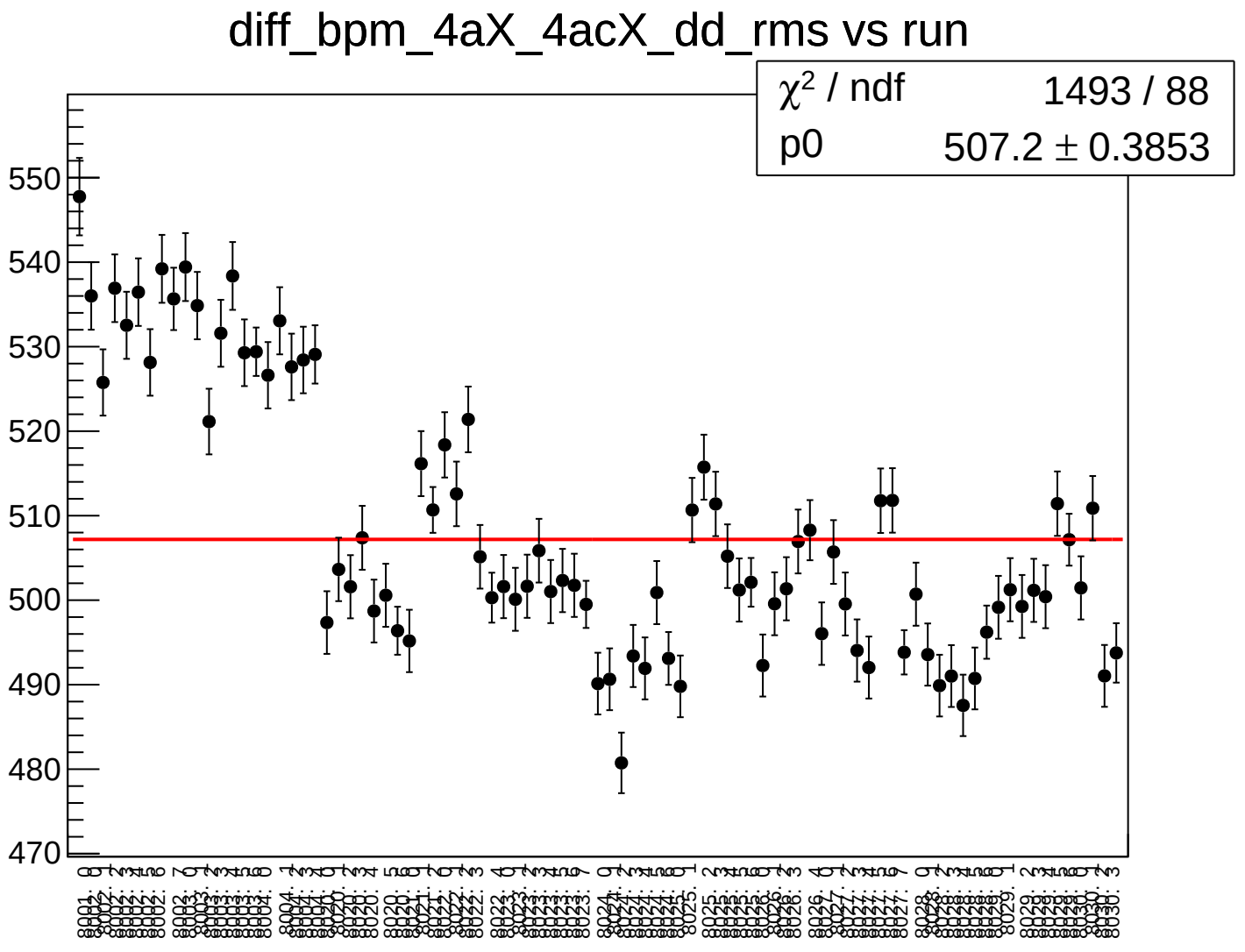

asym_bcm_dg_ds_an_ds_dd_rms vs run
χ² / ndf 3296 / 88
p0 15.89 ± 0.01208
17.5
17
16.5
16
15.5
15
14.5

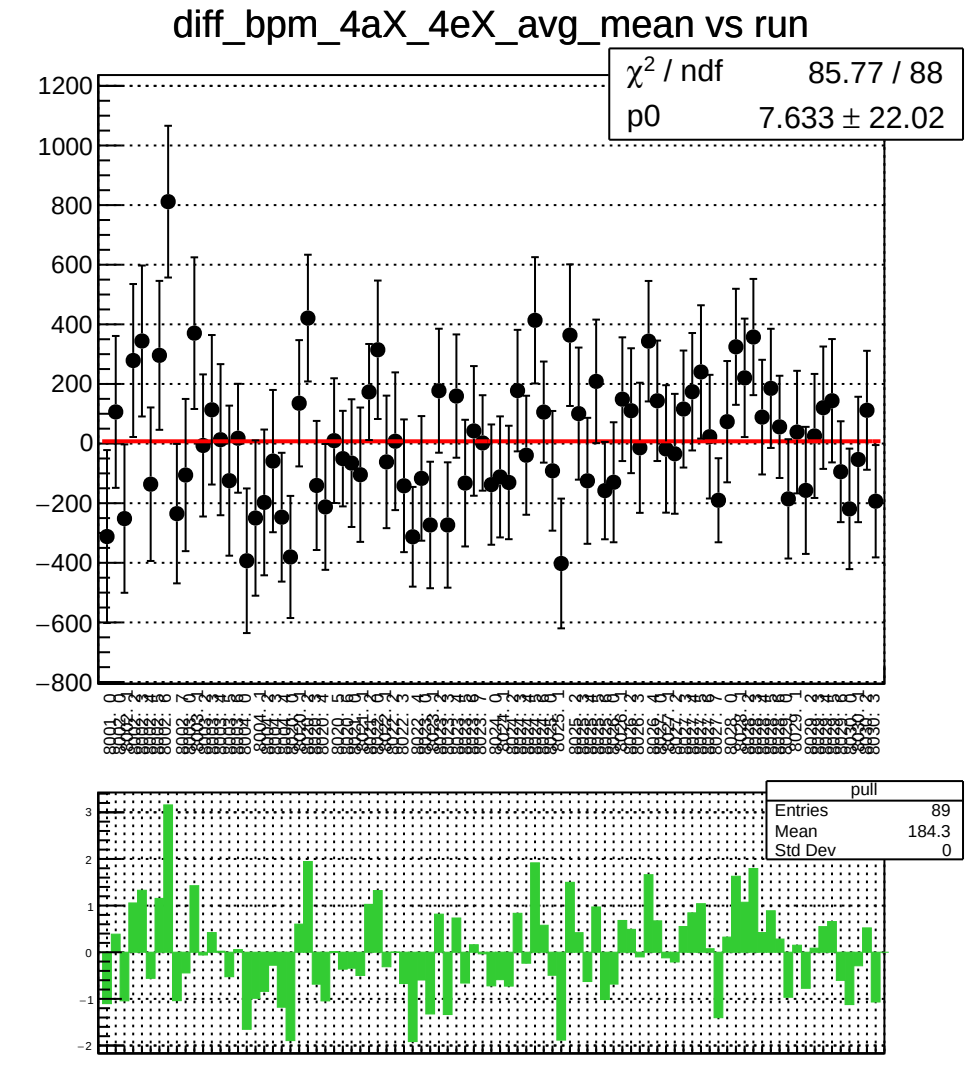

diff_bpm_4aX_4acX_avg_mean vs run
χ² / ndf 85.48 / 88
p0 7.854 ± 22.43
pull
Entries 89
Mean 193.8
Std Dev 0
pull1D
Entries 89
Mean 0.01365
Std Dev 0.98

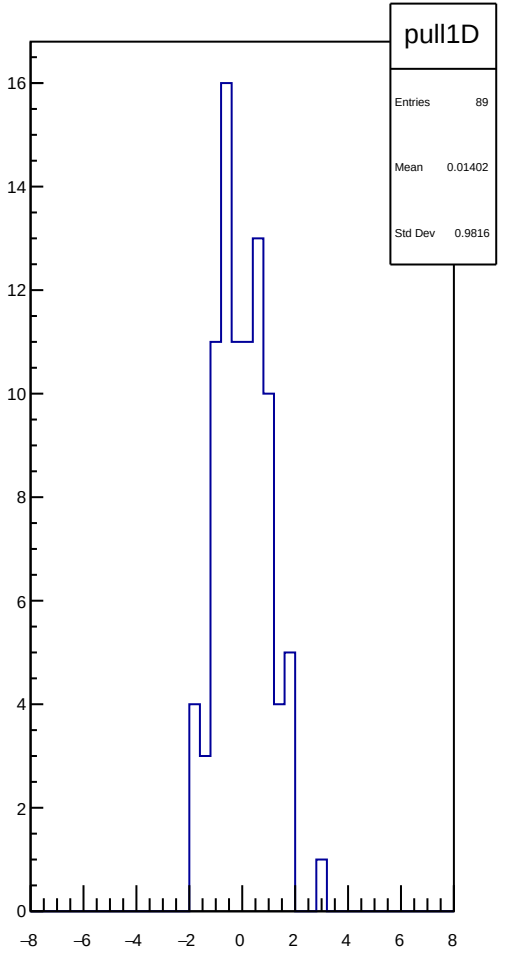

diff_bpm_4aX_4acX_avg_rms vs run
χ² / ndf 1.195e+04 / 88
p0 2.082e+04 ± 15.86
25000
24000
23000
22000
21000
20000
19000
18000

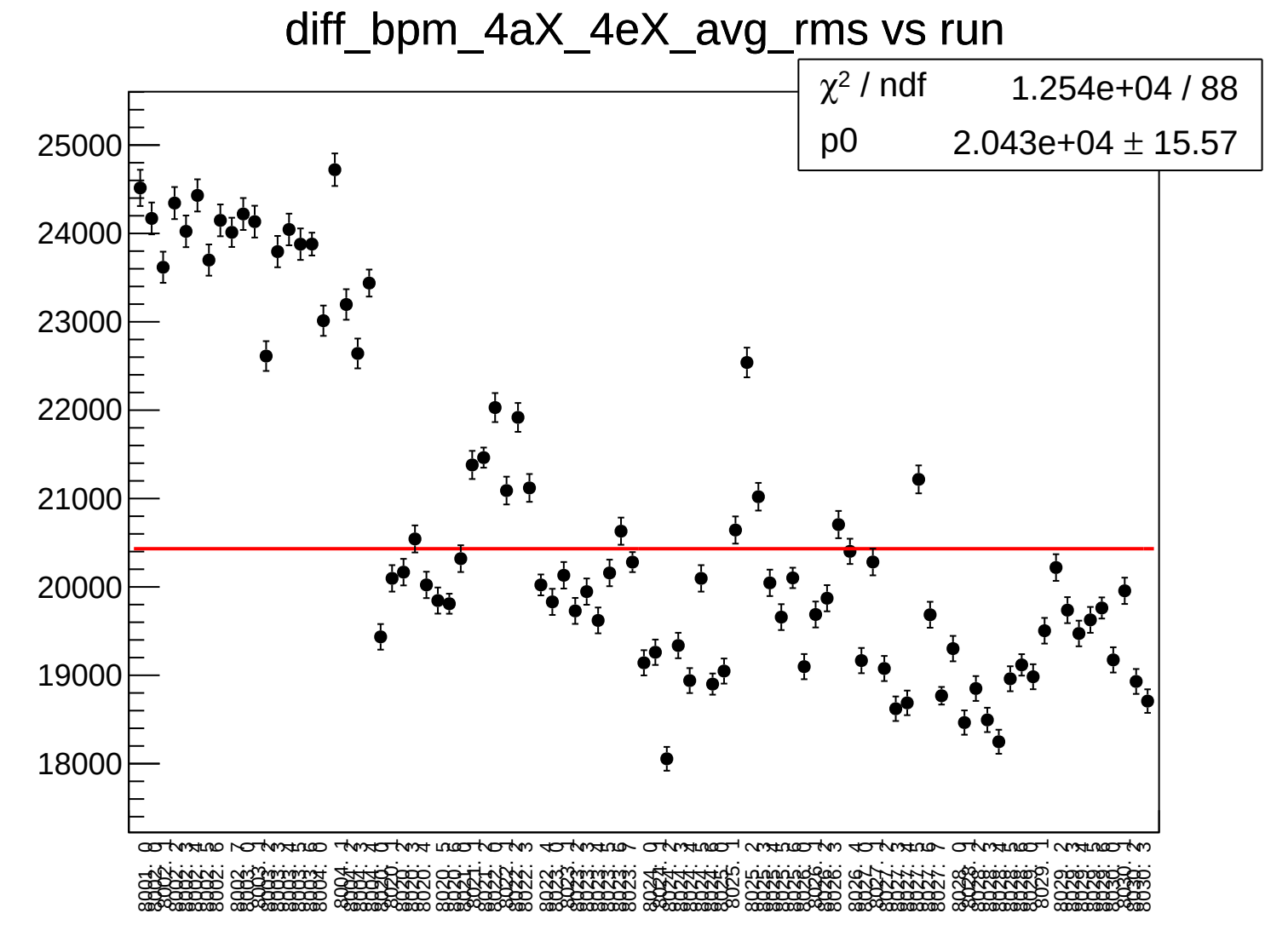

diff_bpm_4aX_4acX_dd_mean vs run
χ^2 / ndf 96.25 / 88
p0 0.3435 ± 0.5448
pull
Entries 89
Mean −114.8
Std Dev 0

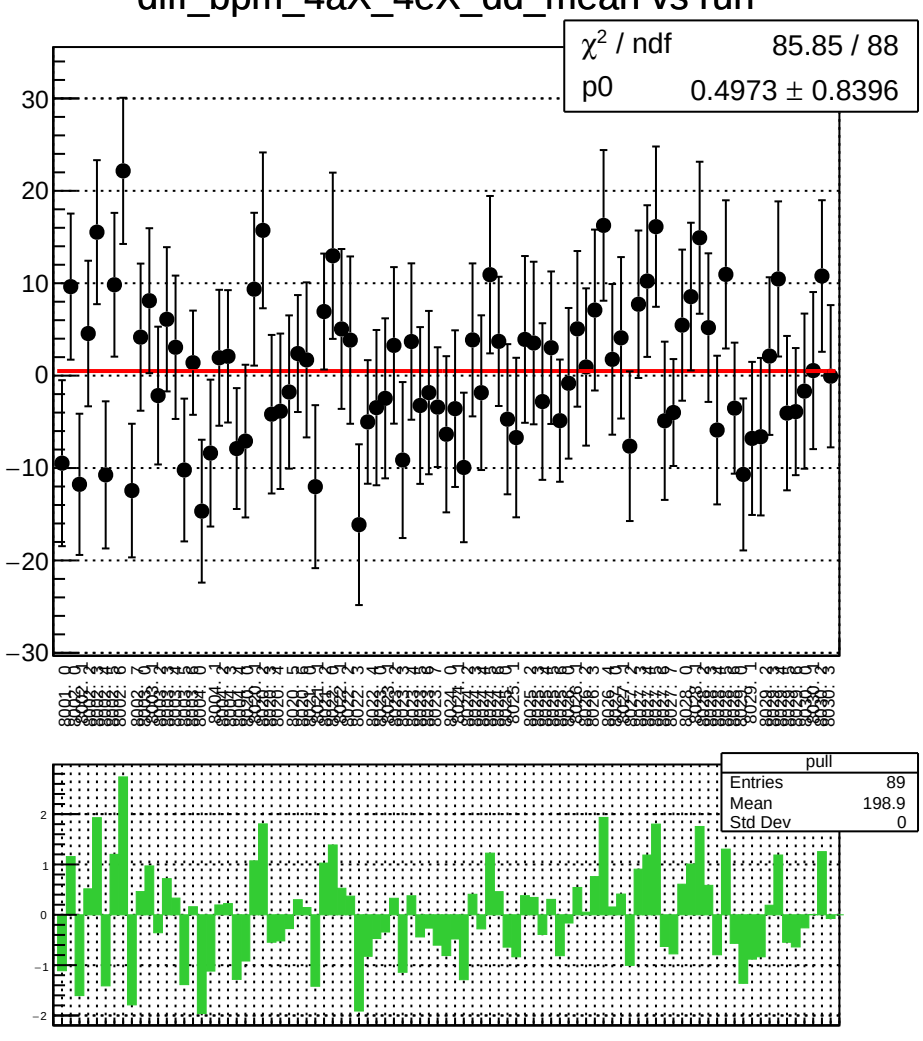

pull1D
Entries 89
Mean 0.01389
Std Dev 1.04

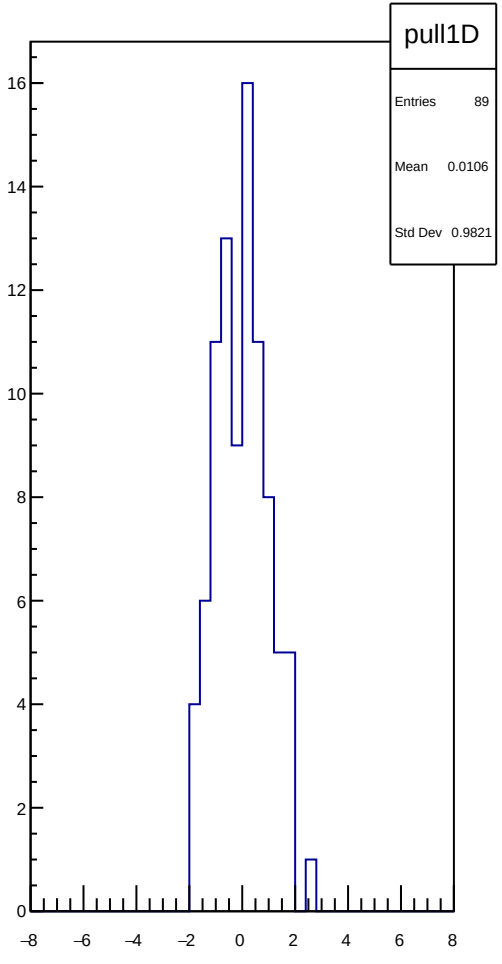

diff_bpm_4aX_4acX_dd_rms vs run
χ² / ndf 1493 / 88
p0 507.2 ± 0.3853
550
540
530
520
510
500
490
480
470

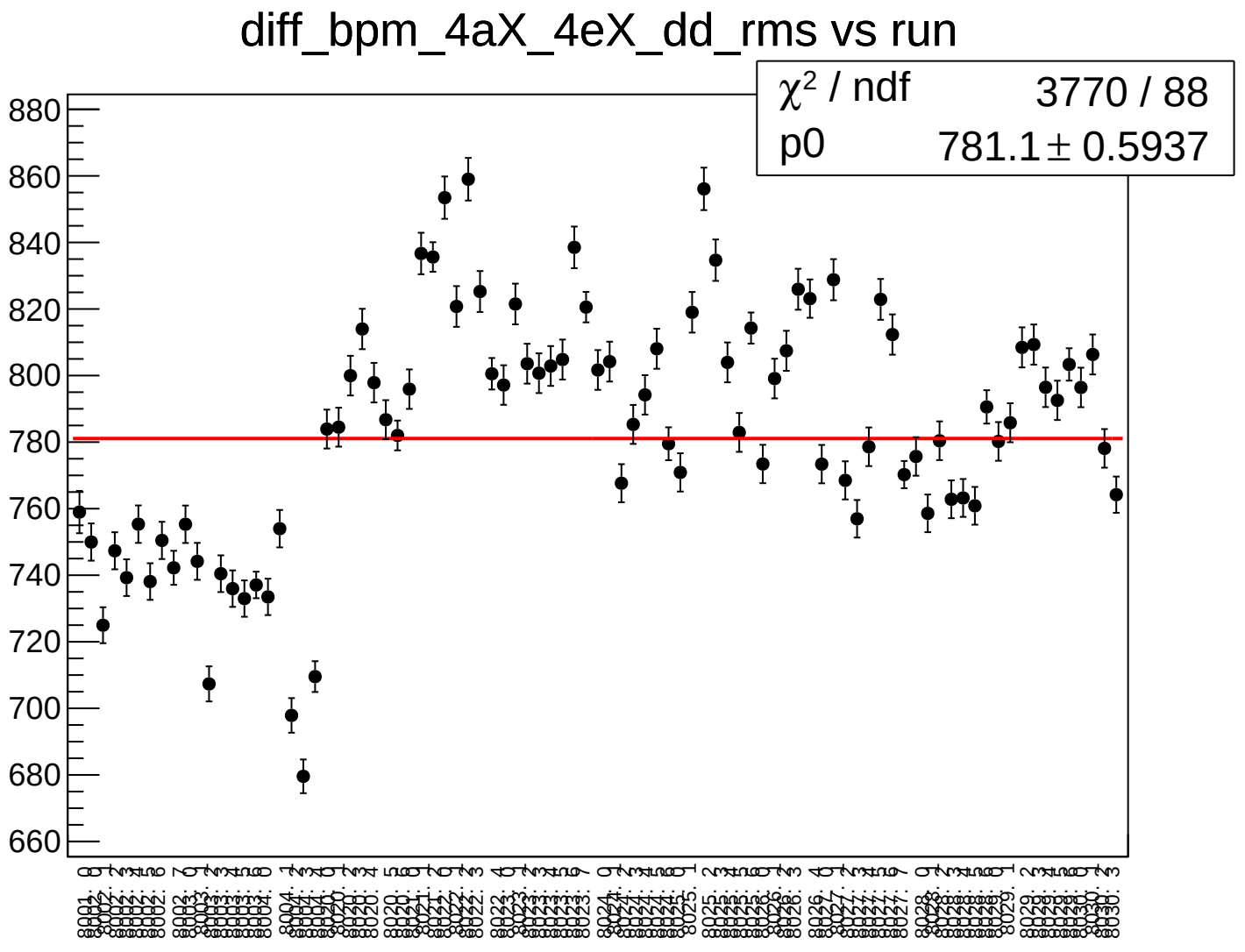

diff_bpm_4aX_4eX_avg_mean vs run
χ^2 / ndf 85.77 / 88
p0 7.633 ± 22.02
pull
Entries 89
Mean 184.3
Std Dev 0

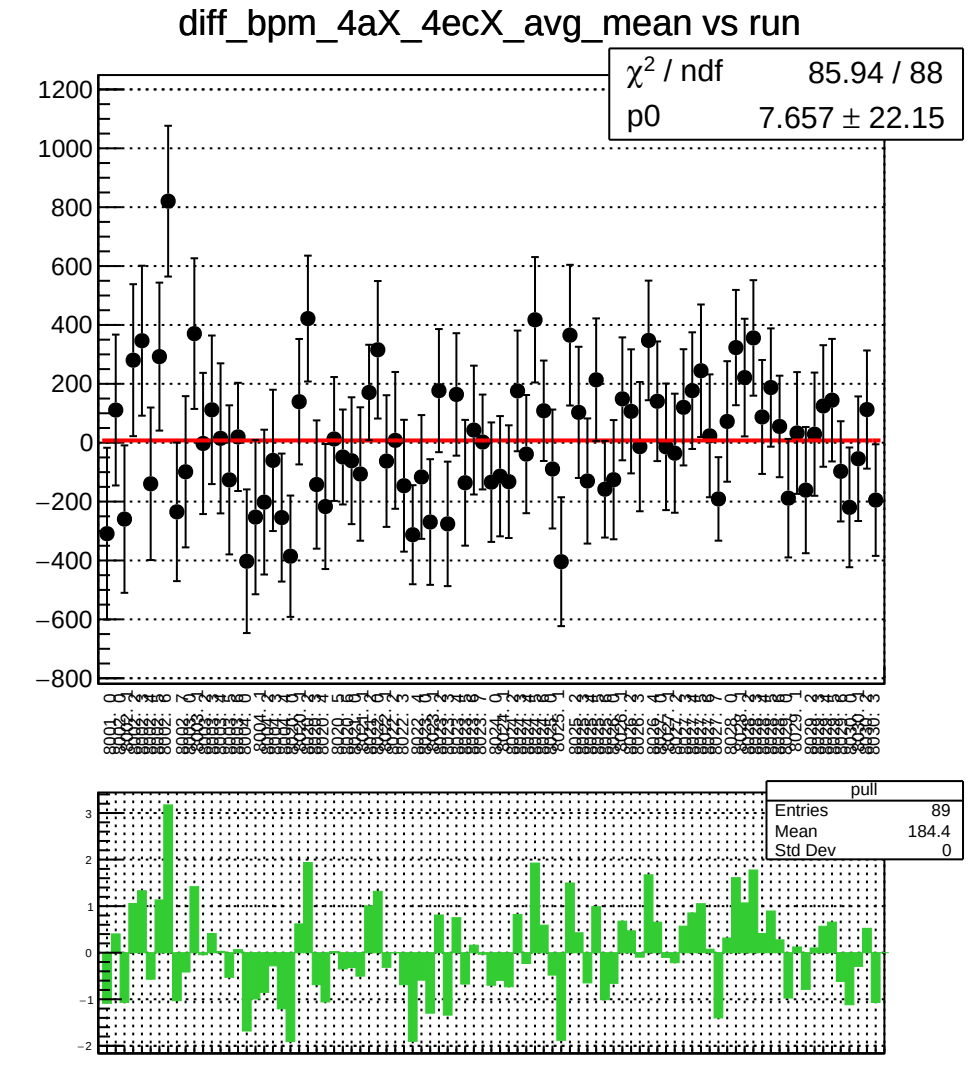

pull1D
Entries 89
Mean 0.01402
Std Dev 0.9816

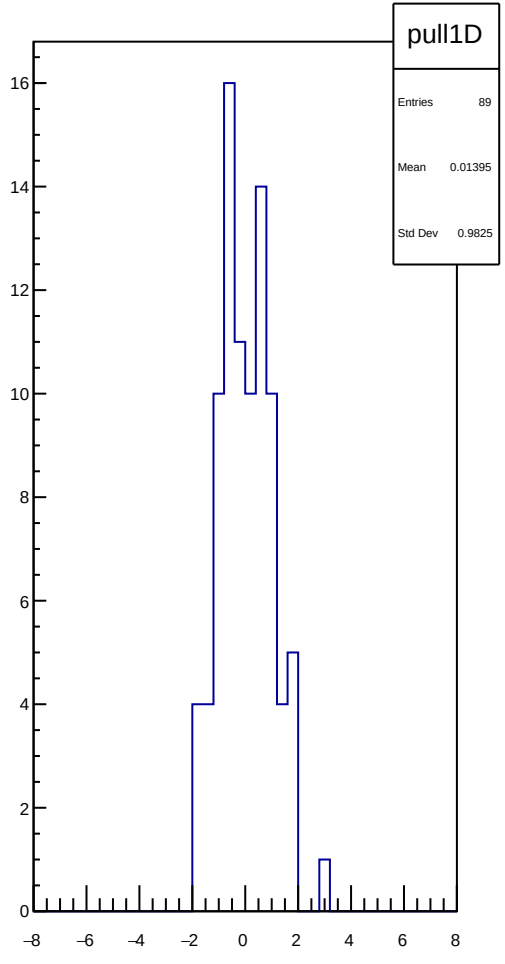

diff_bpm_4aX_4eX_avg_rms vs run
χ² / ndf 1.254e+04 / 88
p0 2.043e+04 ± 15.57
25000
24000
23000
22000
21000
20000
19000
18000

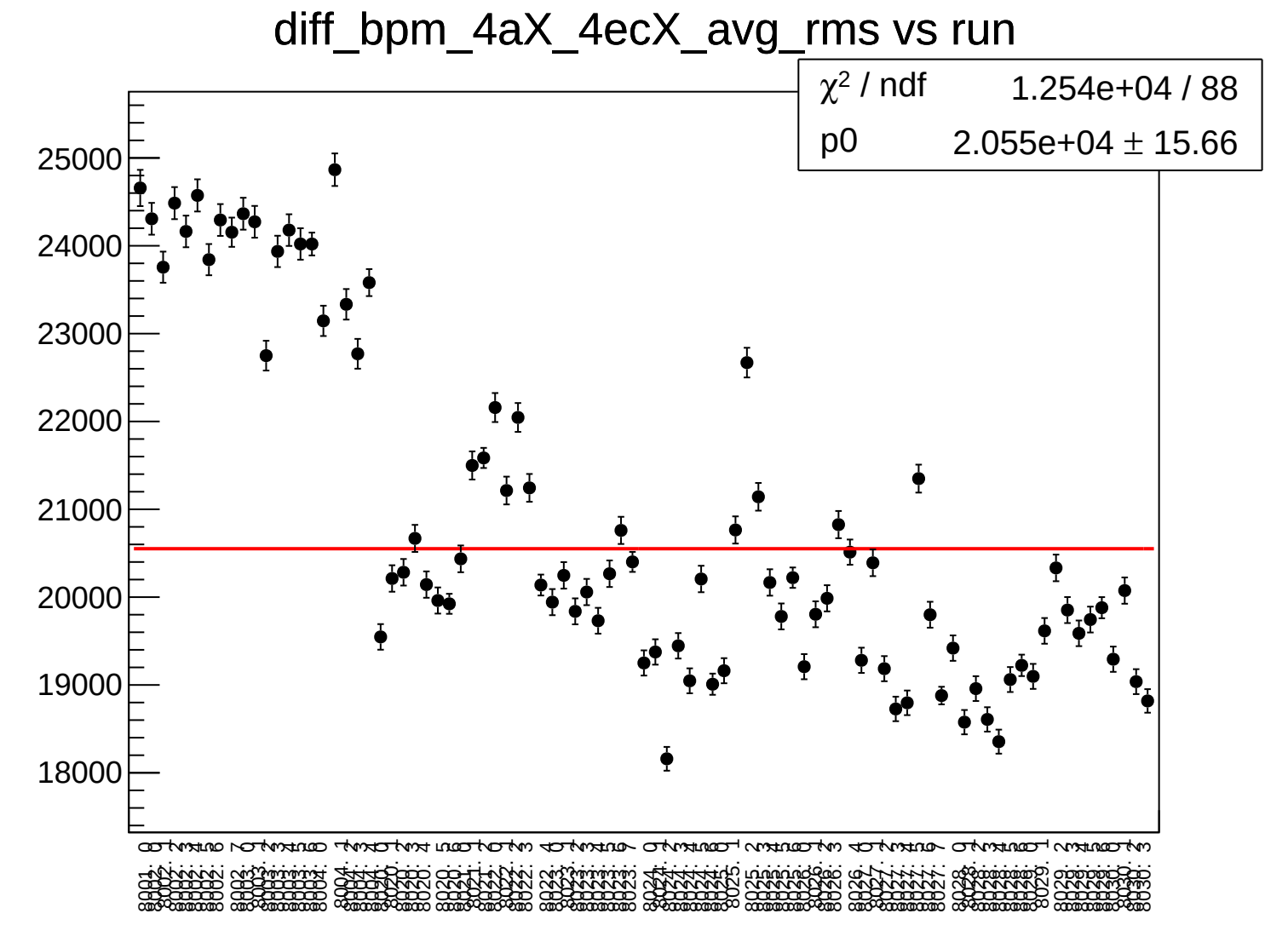

diff_bpm_4aX_4eX_dd_mean vs run
χ² / ndf 85.85 / 88
p0 0.4973 ± 0.8396
pull
Entries 89
Mean 198.9
Std Dev 0

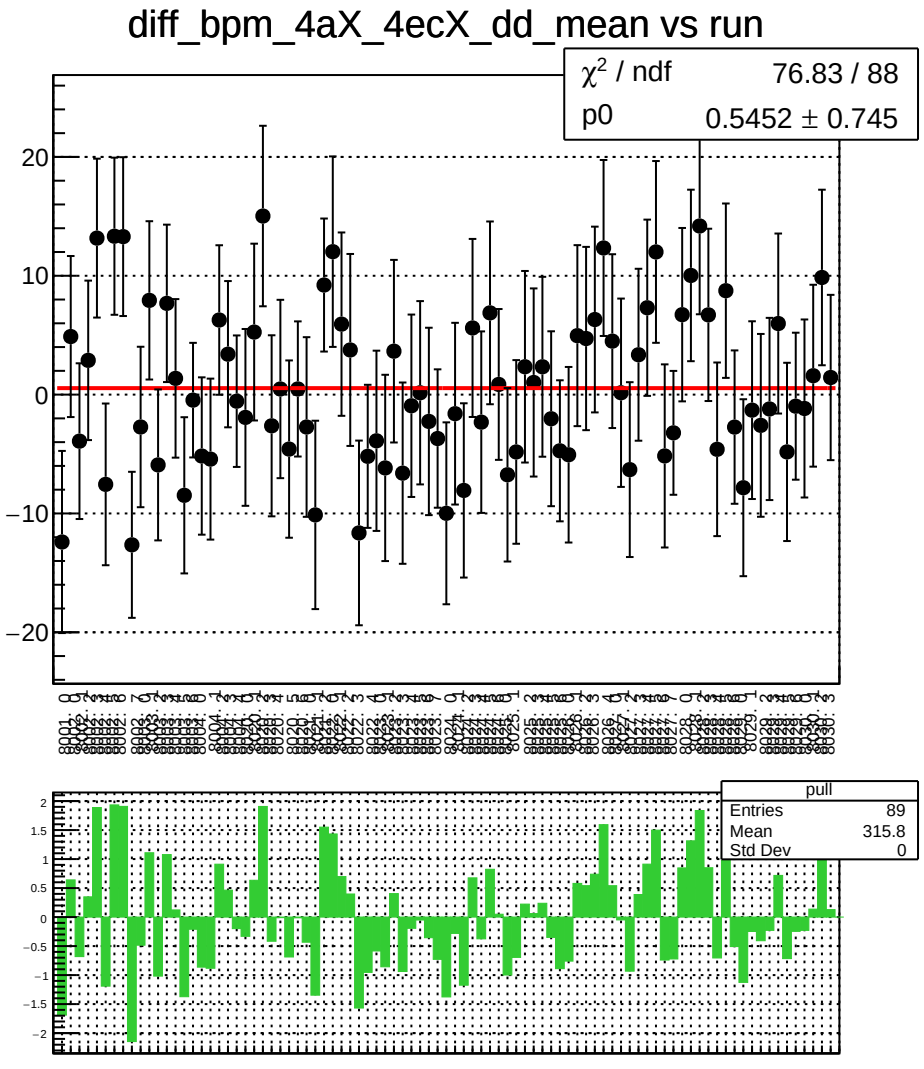

pull1D
Entries 89
Mean 0.0106
Std Dev 0.9821

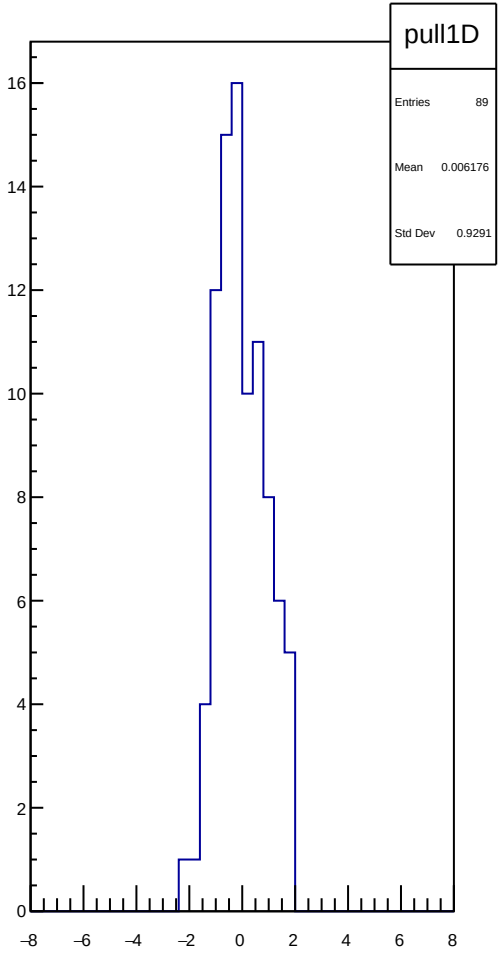

diff_bpm_4aX_4eX_dd_rms vs run
χ² / ndf 3770 / 88
p0 781.1 ± 0.5937
880
860
840
820
800
780
760
740
720
700
680
660

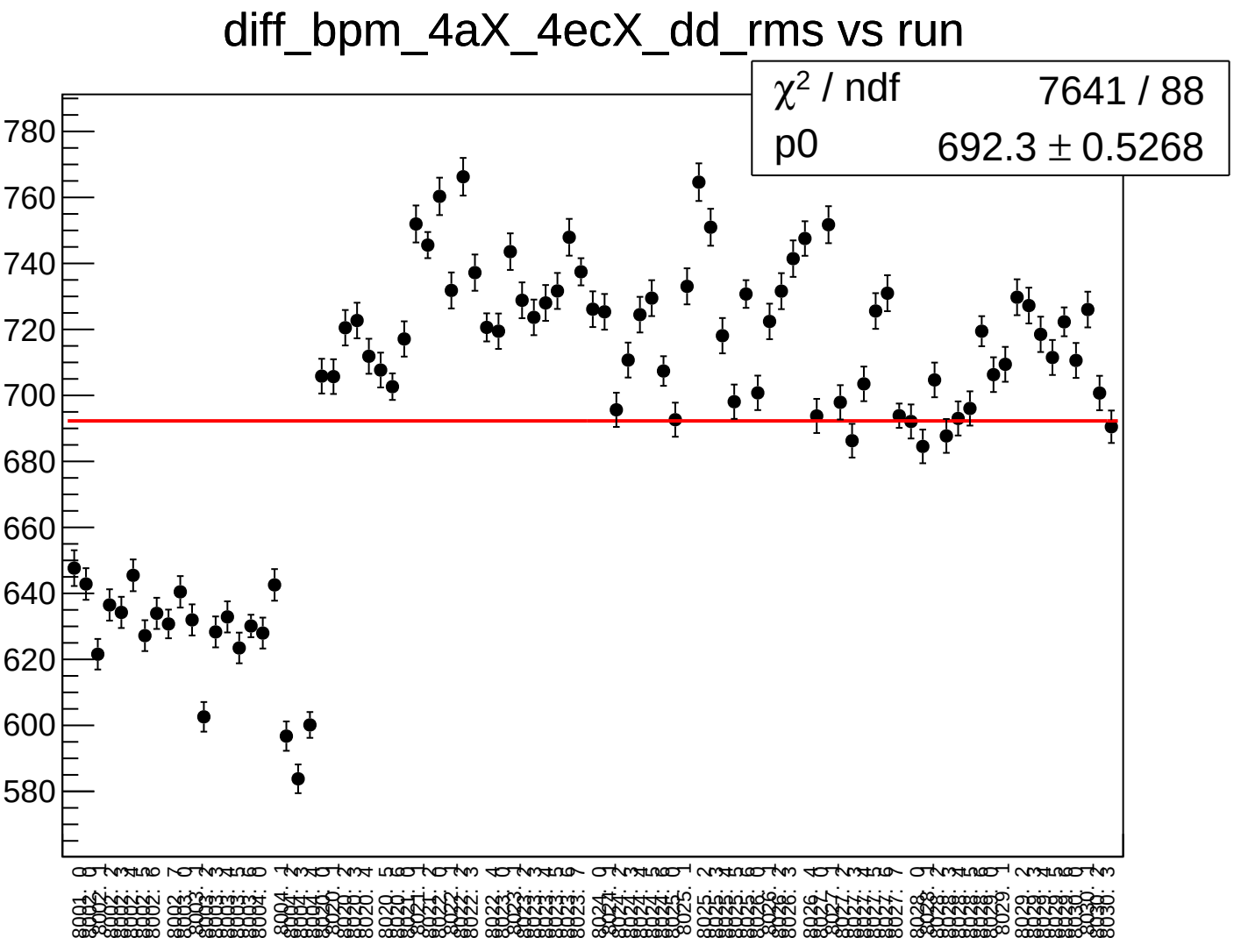

diff_bpm_4aX_4ecX_avg_mean vs run
χ² / ndf 85.94 / 88
p0 7.657 ± 22.15
pull
Entries 89
Mean 184.4
Std Dev 0

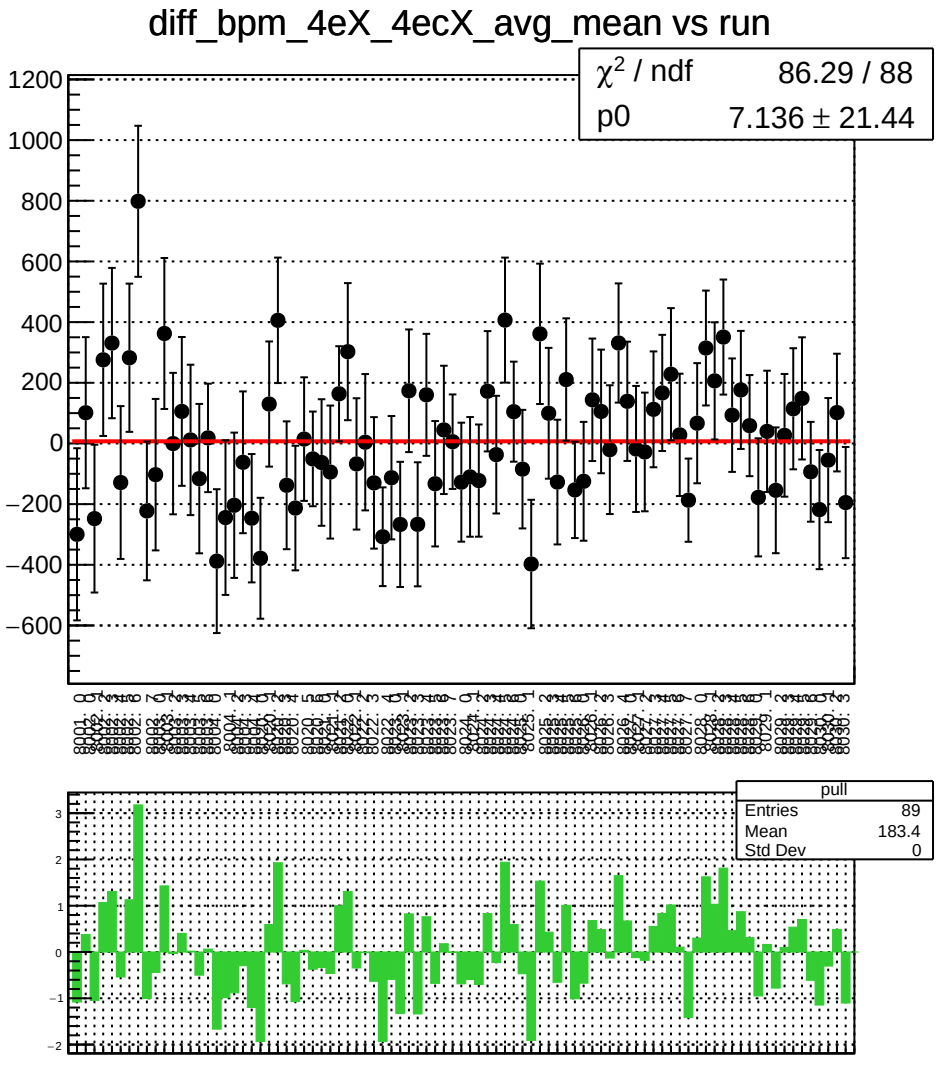

pull1D
Entries 89
Mean 0.01395
Std Dev 0.9825

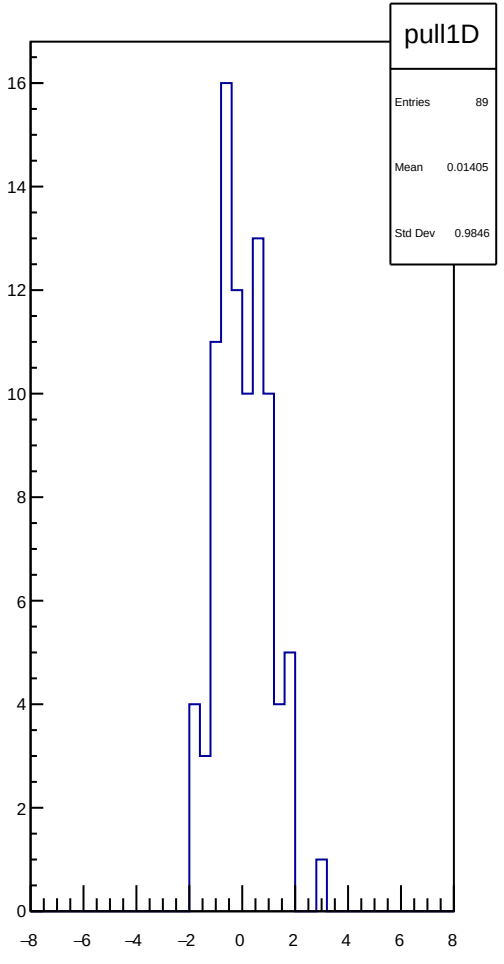

diff_bpm_4aX_4ecX_avg_rms vs run
χ² / ndf 1.254e+04 / 88
p0 2.055e+04 ± 15.66
25000
24000
23000
22000
21000
20000
19000
18000

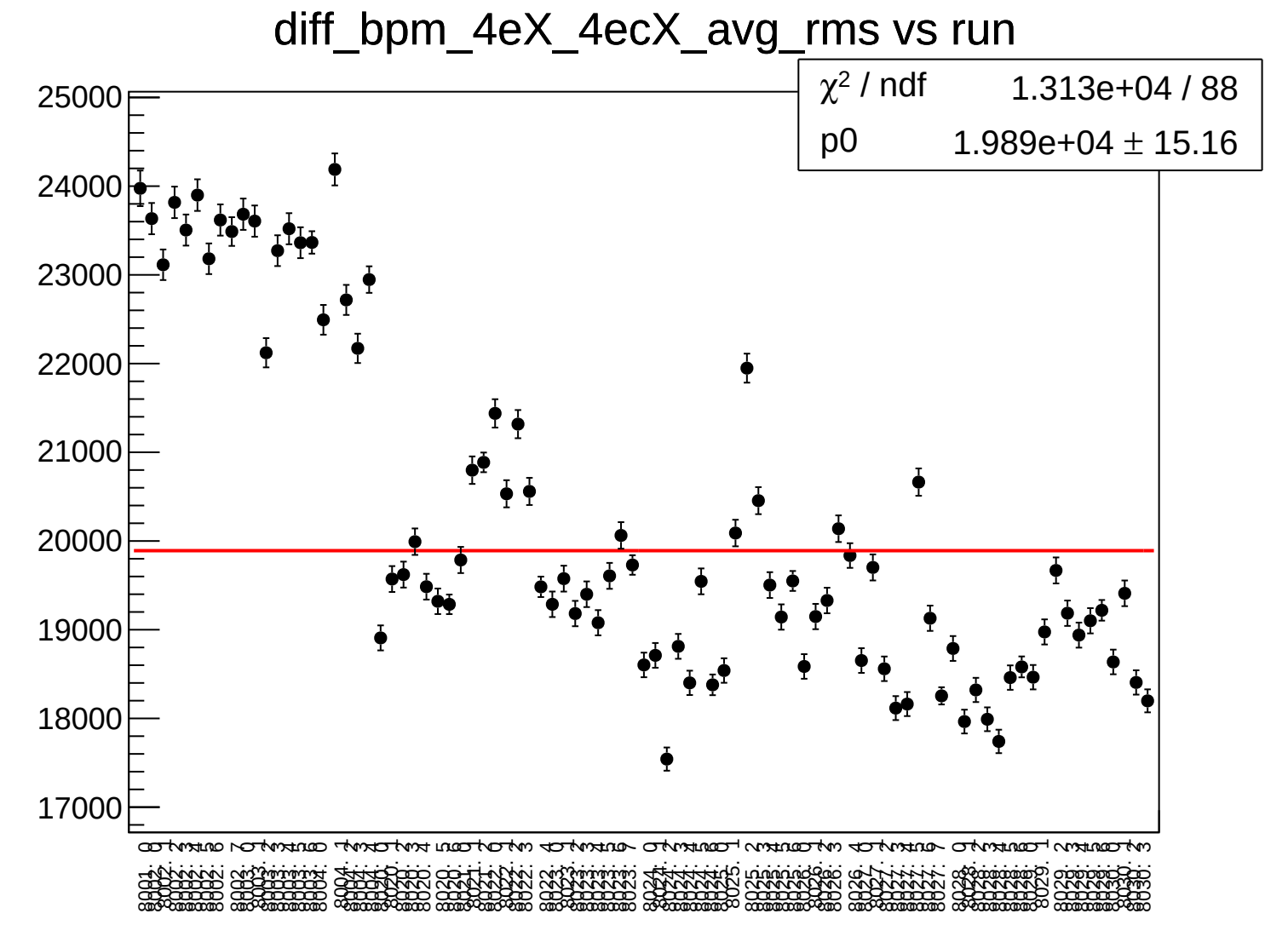

diff_bpm_4aX_4ecX_dd_mean vs run
χ² / ndf 76.83 / 88
p0 0.5452 ± 0.745
pull
Entries 89
Mean 315.8
Std Dev 0

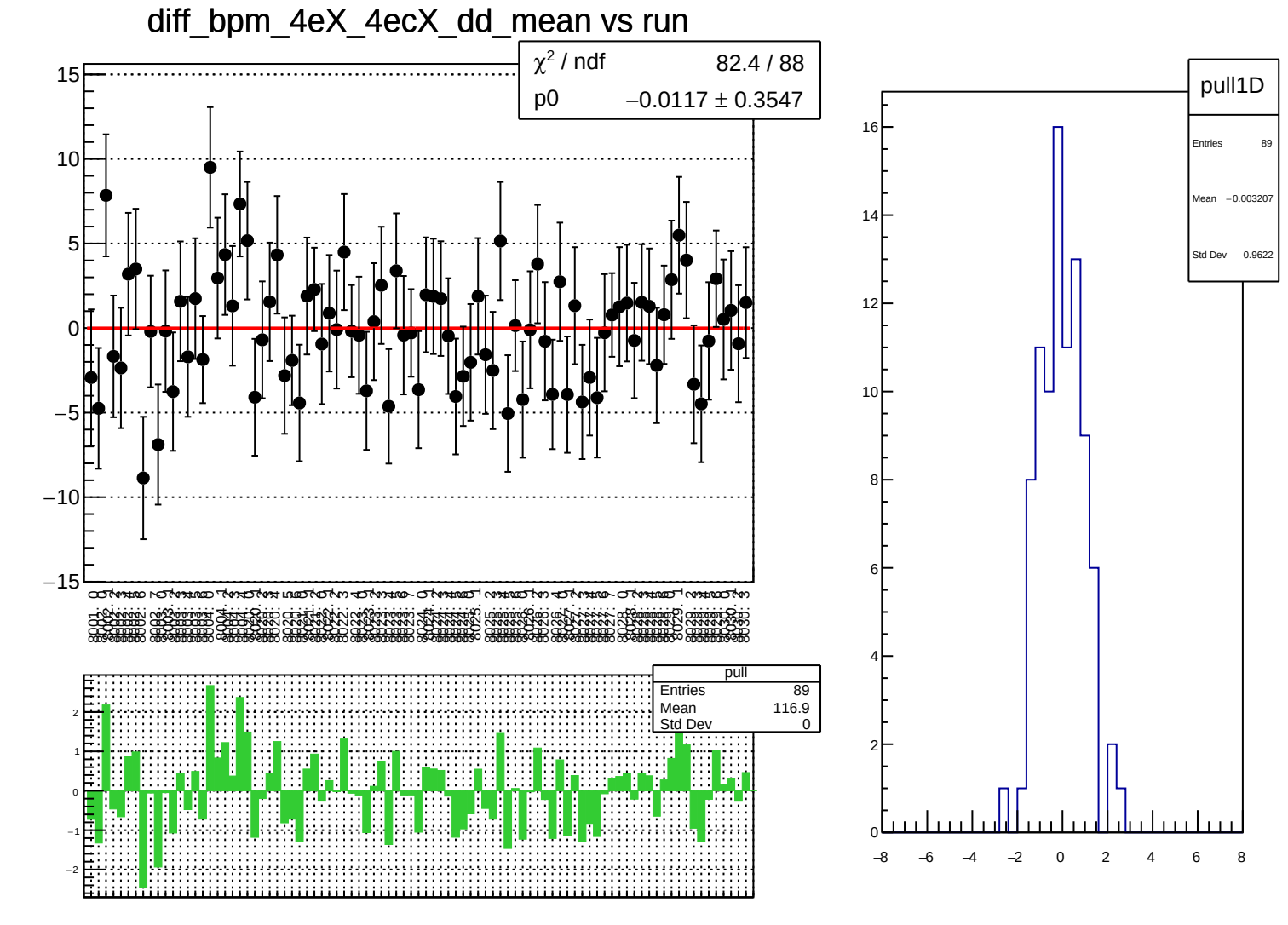

pull1D
Entries 89
Mean 0.006176
Std Dev 0.9291

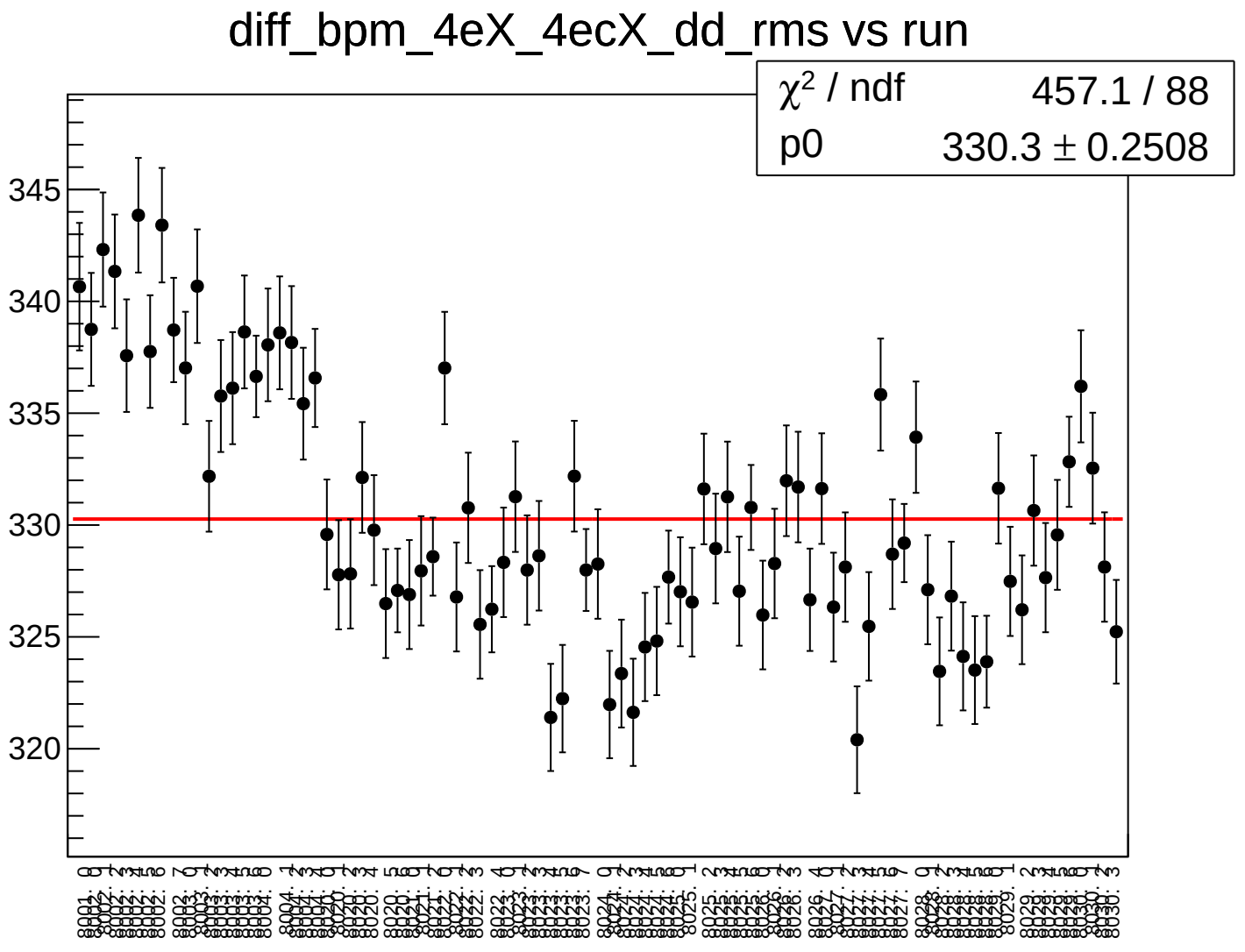

diff_bpm_4aX_4ecX_dd_rms vs run
χ² / ndf 7641 / 88
p0 692.3 ± 0.5268
780
760
740
720
700
680
660
640
620
600
580

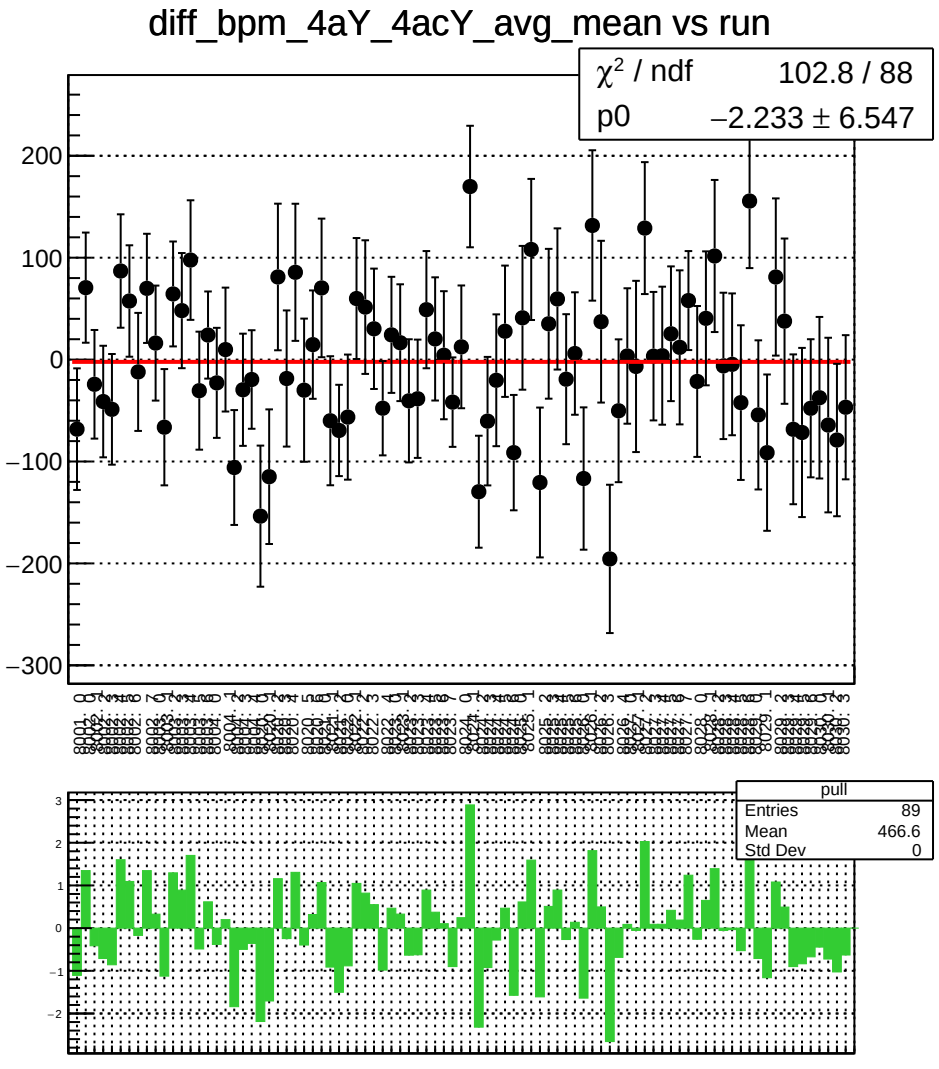

diff_bpm_4eX_4ecX_avg_mean vs run
χ^2 / ndf 86.29 / 88
p0 7.136 ± 21.44
pull
Entries 89
Mean 183.4
Std Dev 0

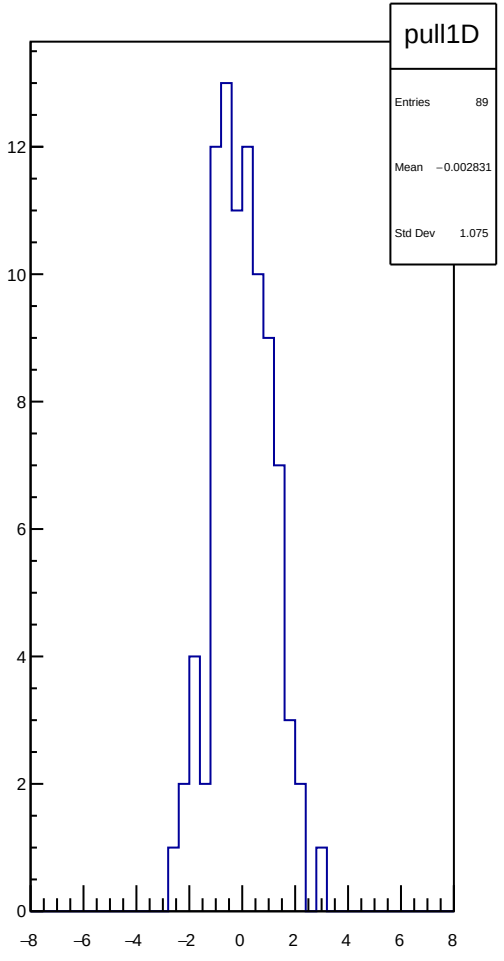

pull1D
Entries 89
Mean 0.01405
Std Dev 0.9846

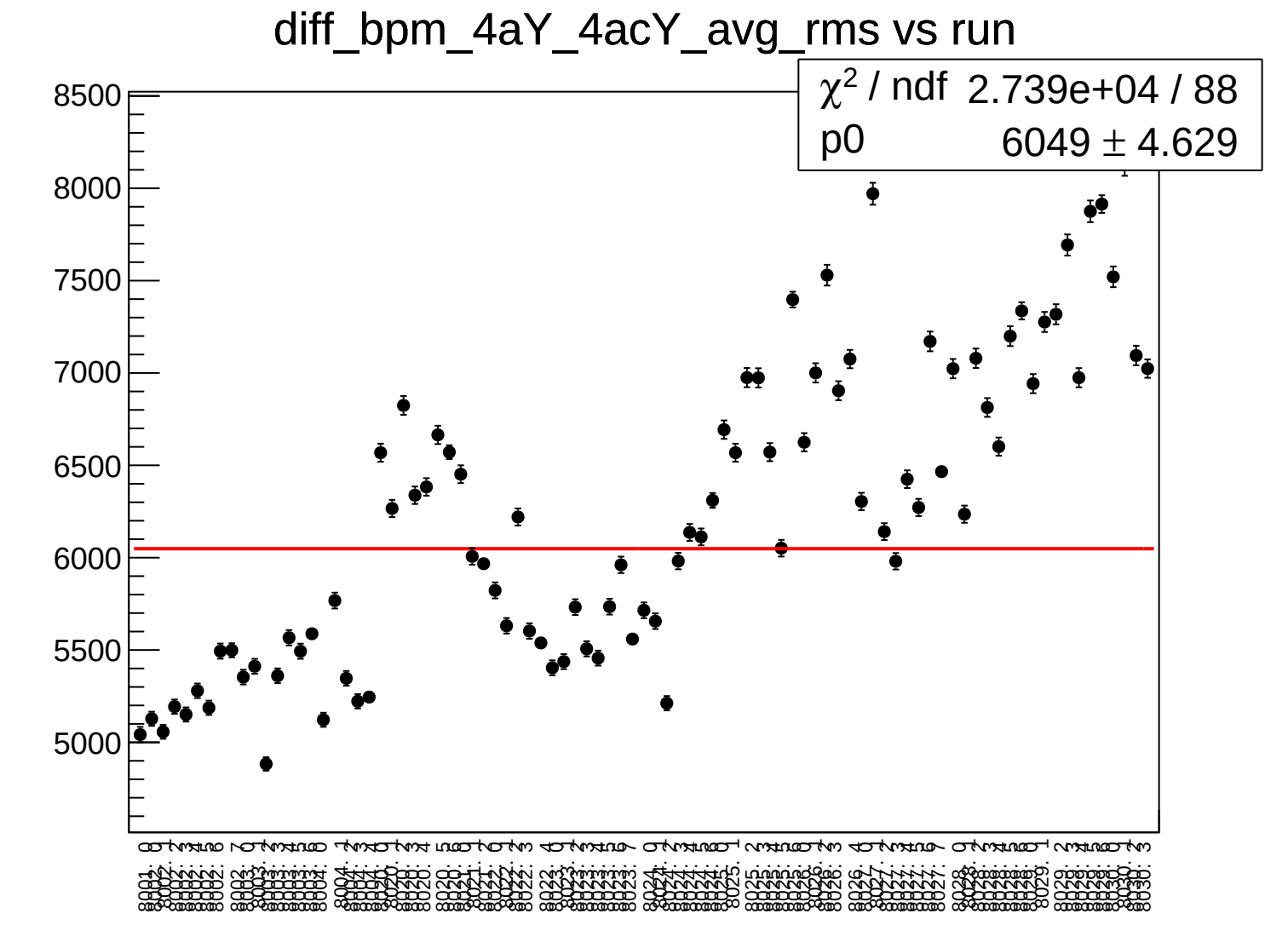

diff_bpm_4eX_4ecX_avg_rms vs run
χ² / ndf 1.313e+04 / 88
p0 1.989e+04 ± 15.16
25000
24000
23000
22000
21000
20000
19000
18000
17000

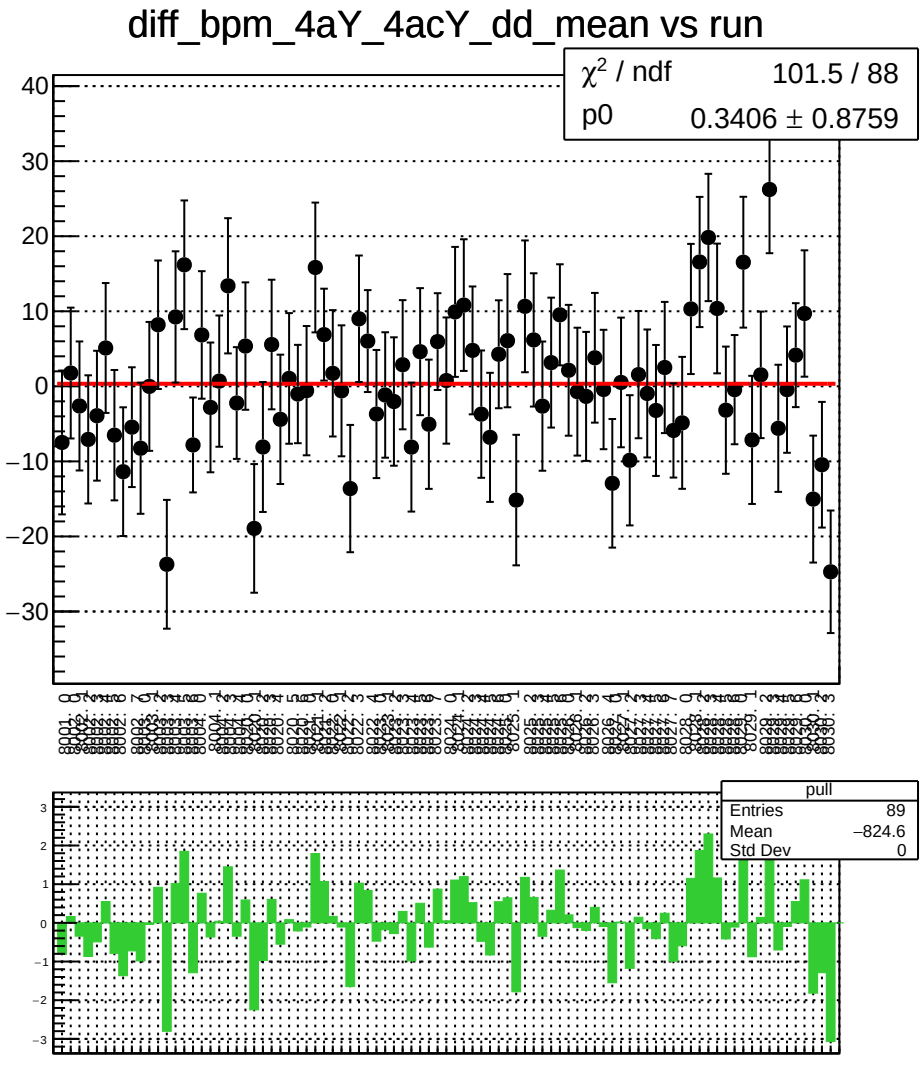

diff_bpm_4eX_4ecX_dd_mean vs run
χ² / ndf 82.4 / 88
p0 −0.0117 ± 0.3547
pull
Entries 89
Mean 116.9
Std Dev 0
pull1D
Entries 89
Mean −0.003207
Std Dev 0.9622

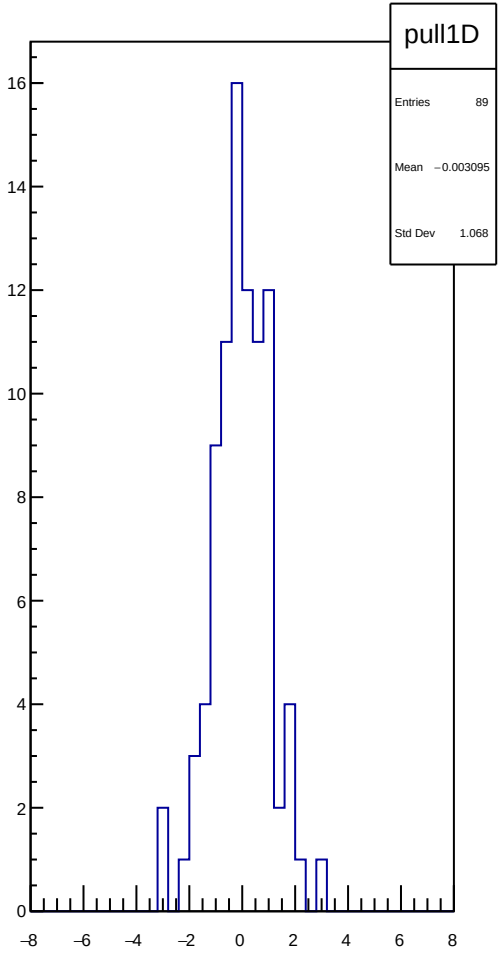

diff_bpm_4eX_4ecX_dd_rms vs run
χ² / ndf 457.1 / 88
p0 330.3 ± 0.2508
345
340
335
330
325
320

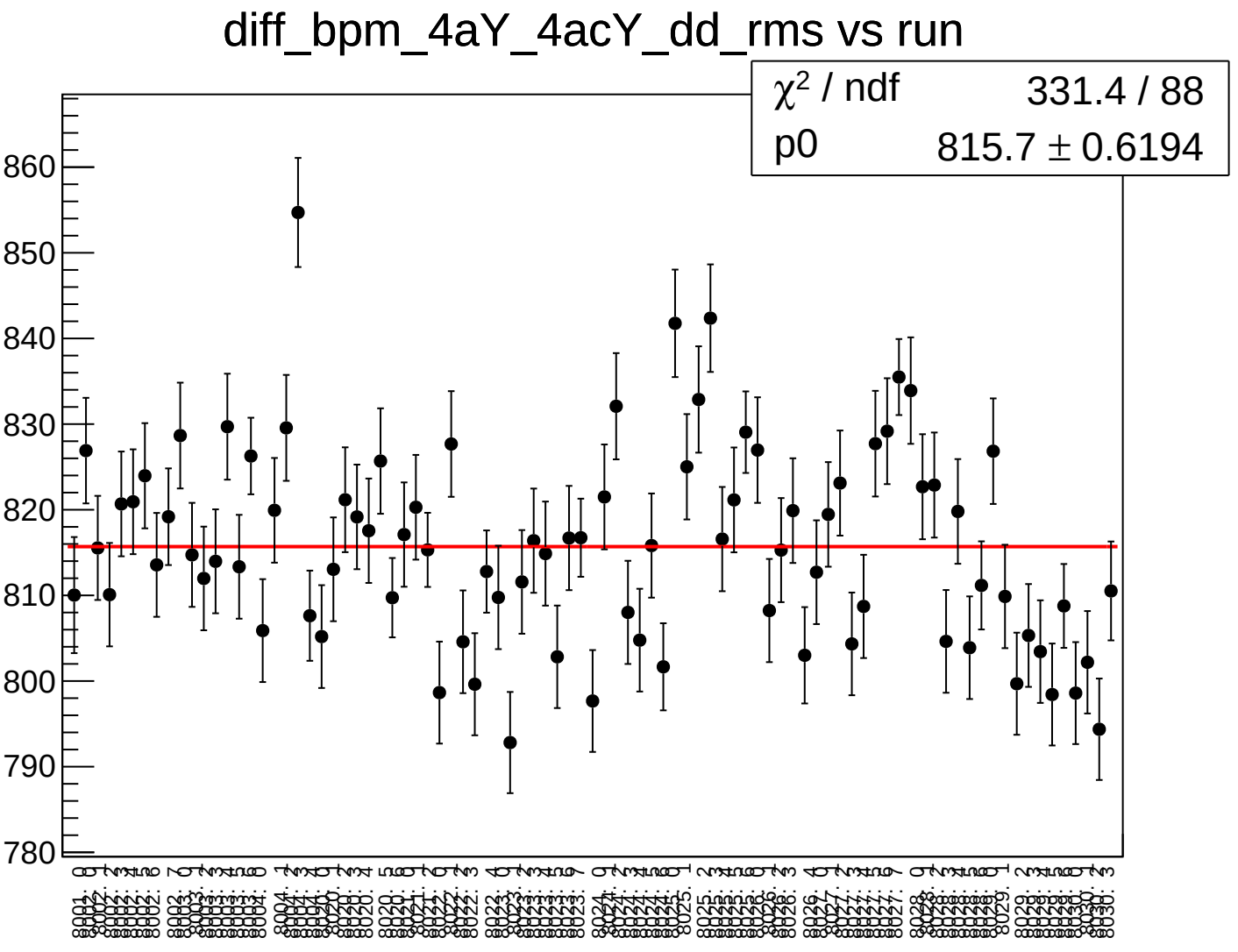

diff_bpm_4aY_4acY_avg_mean vs run
χ² / ndf 102.8 / 88
p0 −2.233 ± 6.547
200
100
0
−100
−200
−300
pull
Entries 89
Mean 466.6
Std Dev 0
3
2
1
0
−1
−2

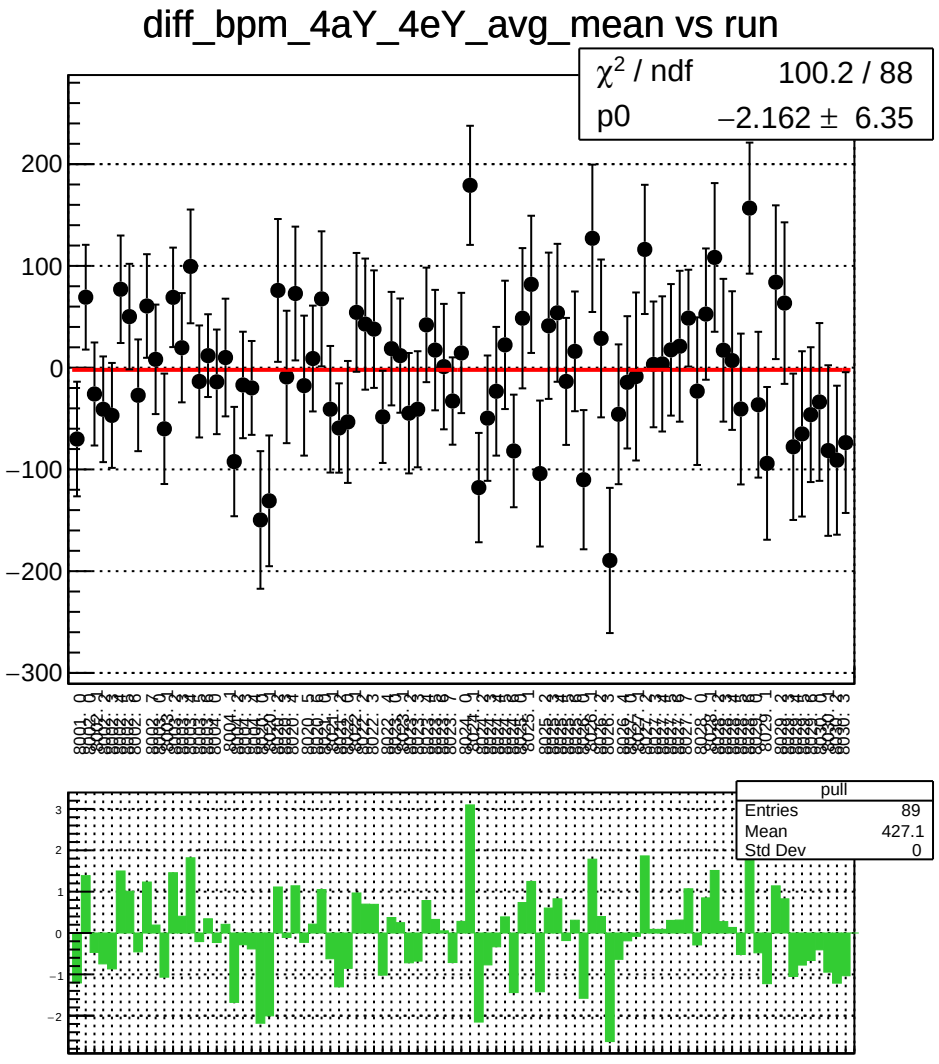

pull1D
Entries 89
Mean −0.002831
Std Dev 1.075
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

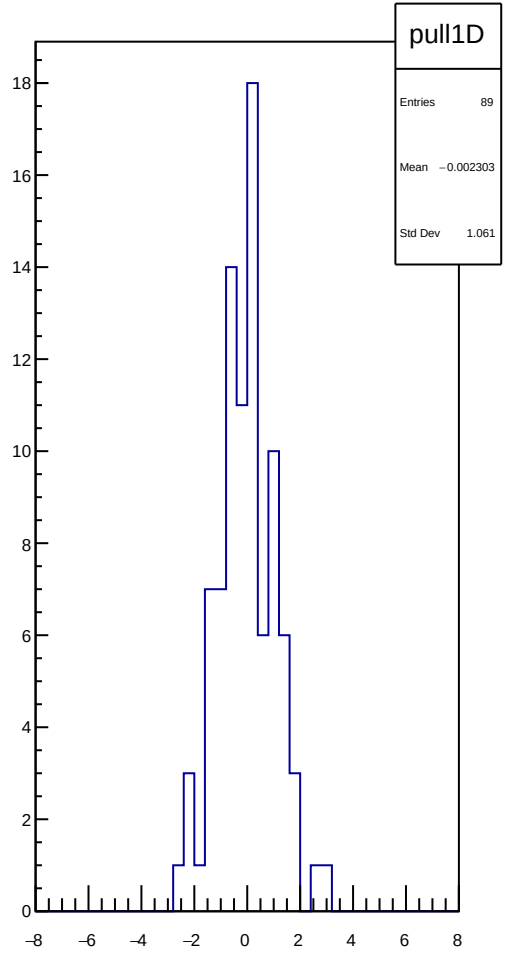

diff_bpm_4aY_4acY_avg_rms vs run
χ² / ndf 2.739e+04 / 88
p0 6049 ± 4.629
8500
8000
7500
7000
6500
6000
5500
5000

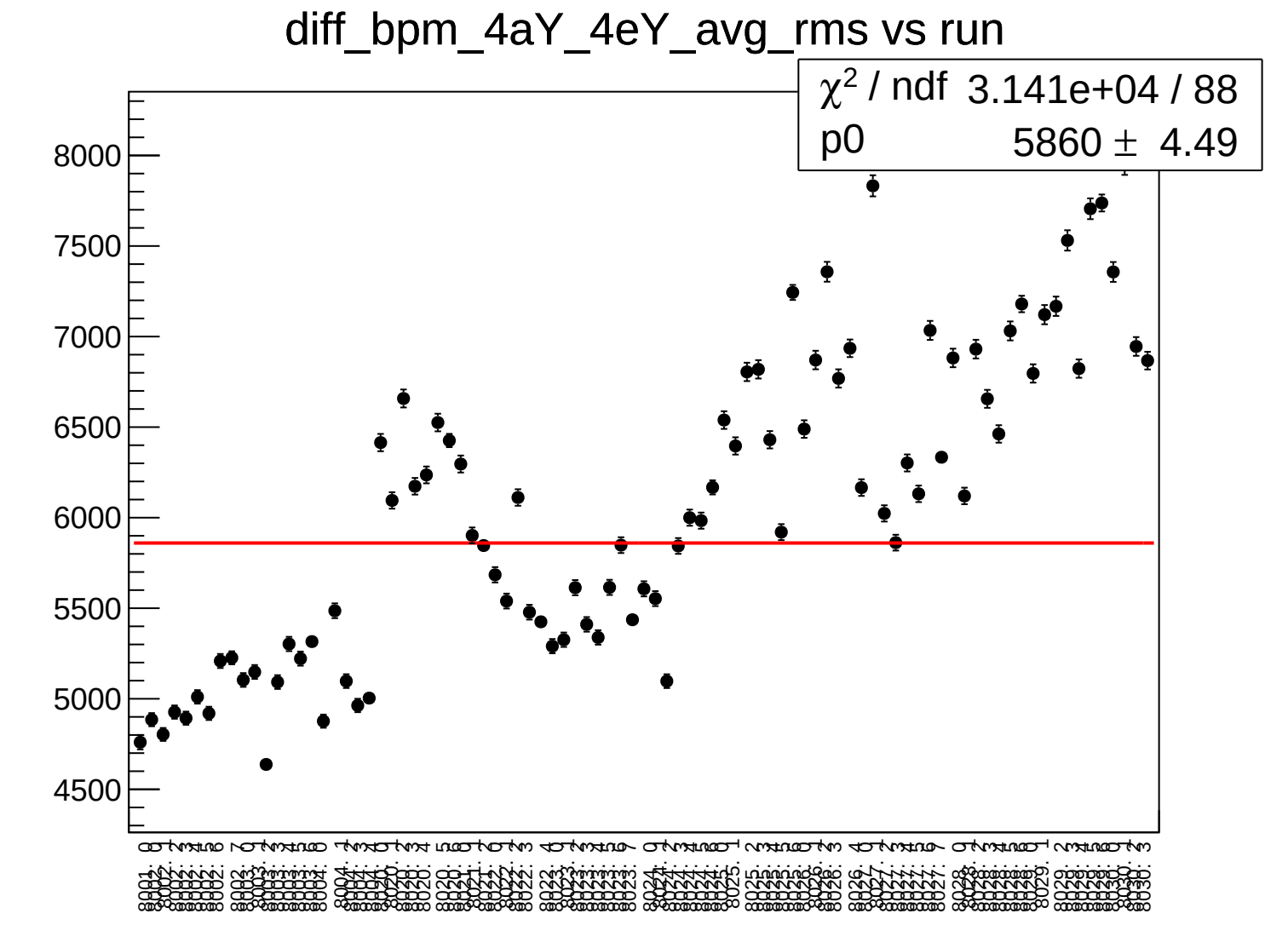

diff_bpm_4aY_4acY_dd_mean vs run
χ² / ndf 101.5 / 88
p0 0.3406 ± 0.8759
pull
Entries 89
Mean −824.6
Std Dev 0

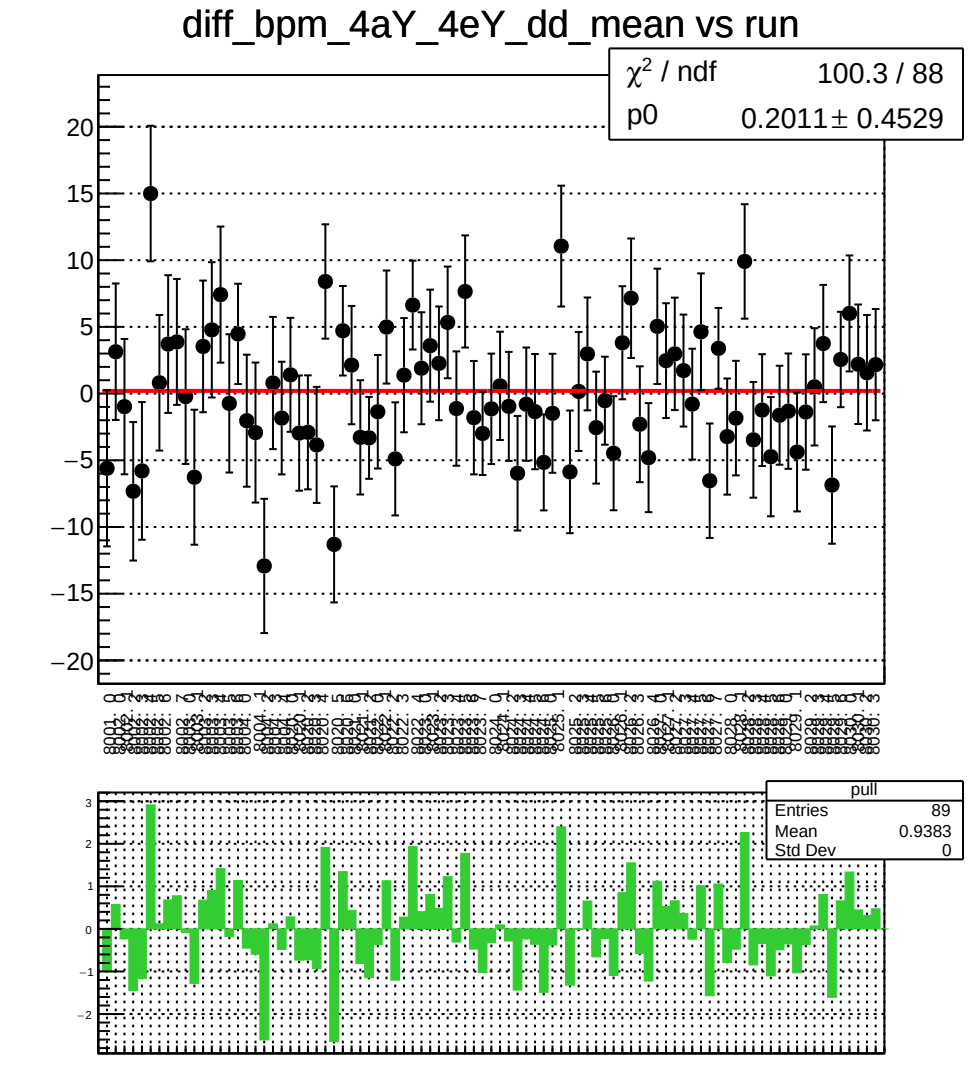

pull1D
Entries 89
Mean −0.003095
Std Dev 1.068

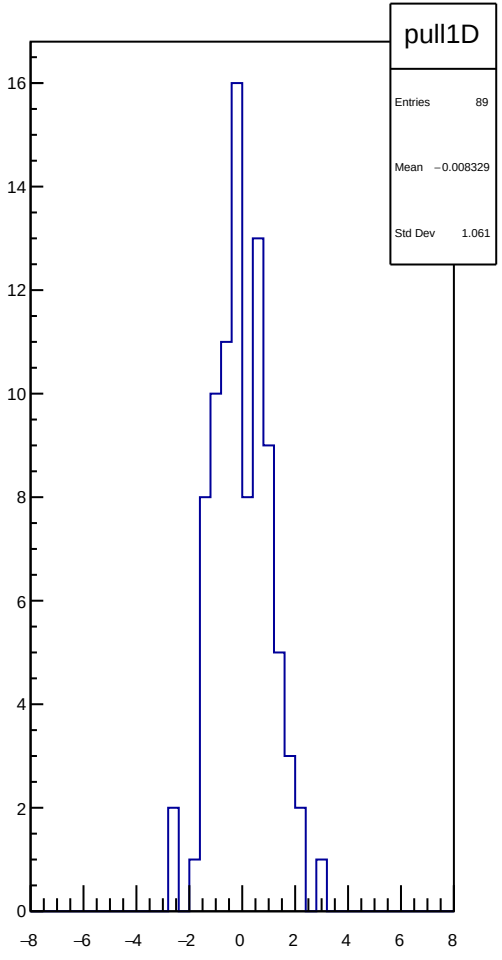

diff_bpm_4aY_4acY_dd_rms vs run
χ² / ndf 331.4 / 88
p0 815.7 ± 0.6194
860
850
840
830
820
810
800
790
780

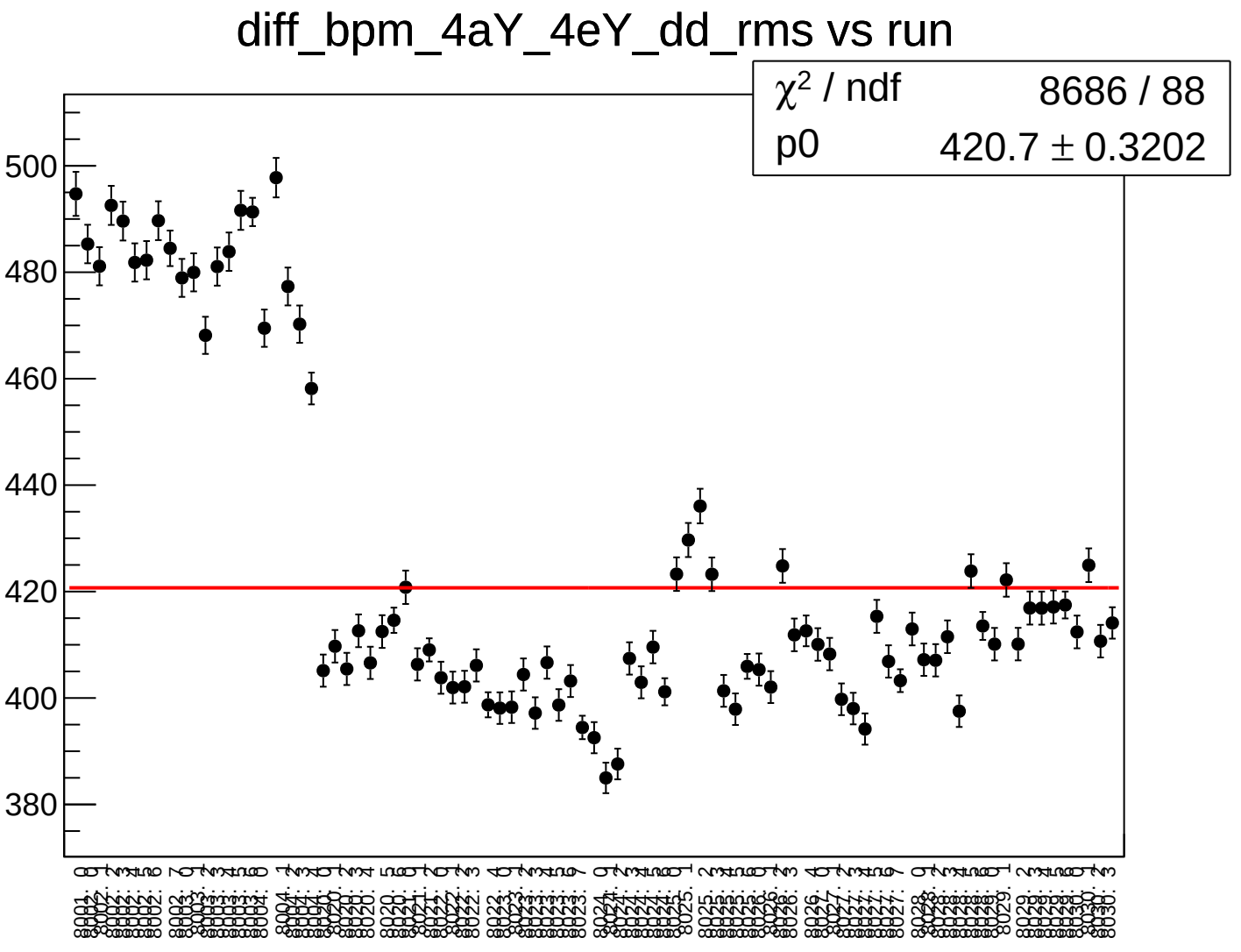

diff_bpm_4aY_4eY_avg_mean vs run
χ² / ndf 100.2 / 88
p0 −2.162 ± 6.35
200
100
0
−100
−200
−300
pull
Entries 89
Mean 427.1
Std Dev 0
3
2
1
0
−1
−2

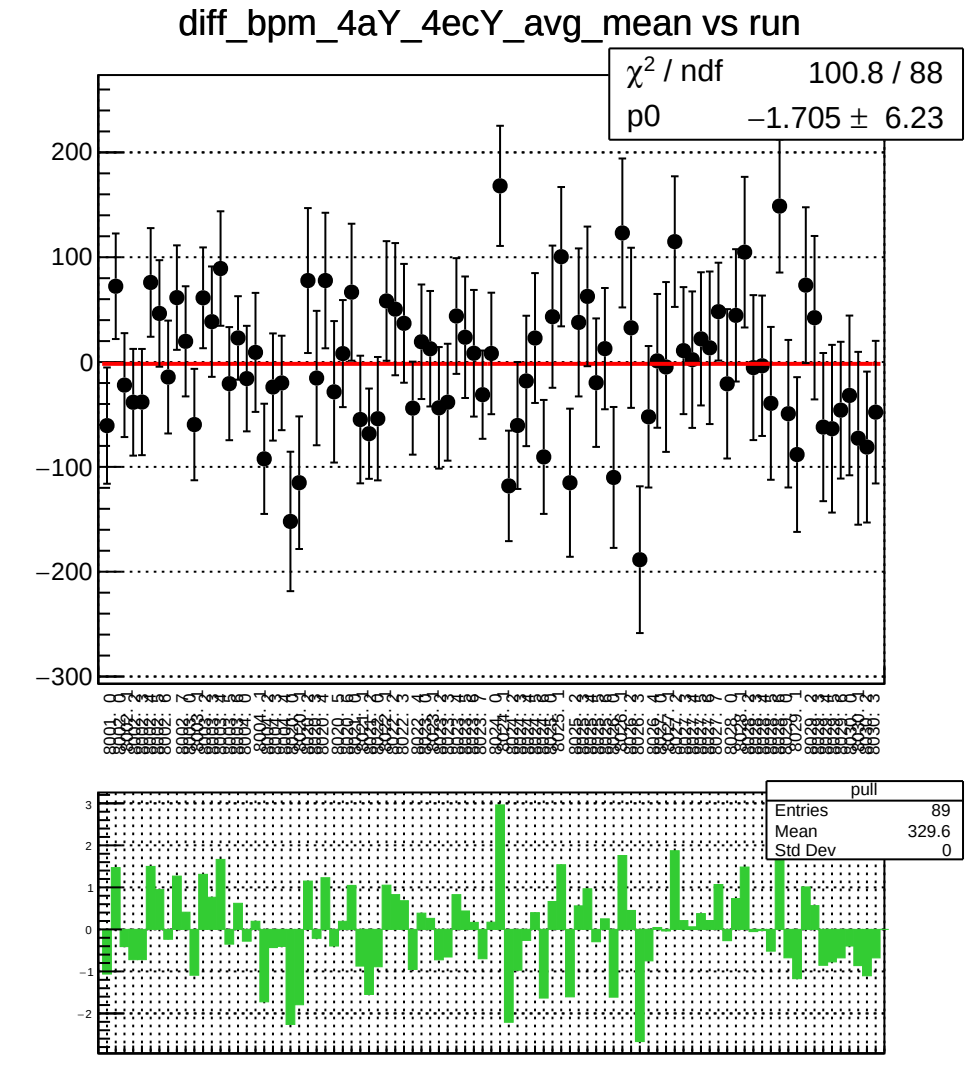

pull1D
Entries 89
Mean −0.002303
Std Dev 1.061
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

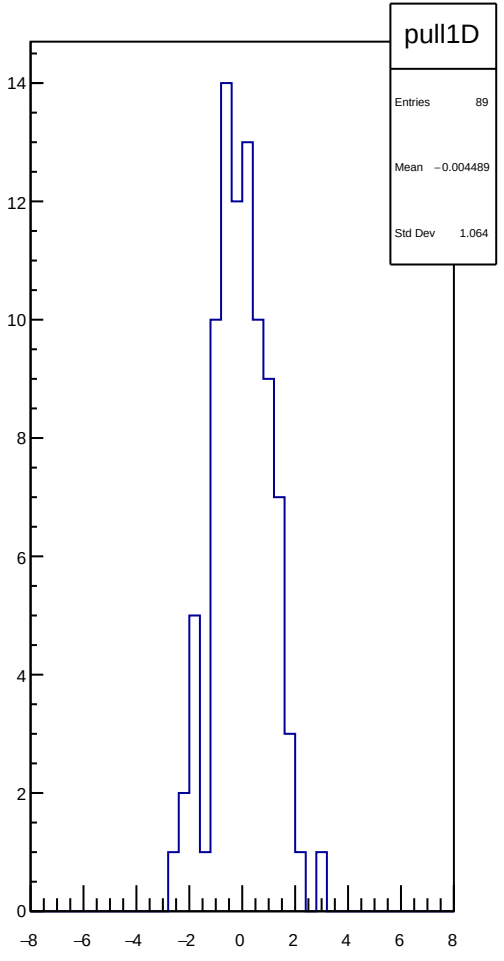

diff_bpm_4aY_4eY_avg_rms vs run
χ² / ndf 3.141e+04 / 88
p0 5860 ± 4.49
8000
7500
7000
6500
6000
5500
5000
4500

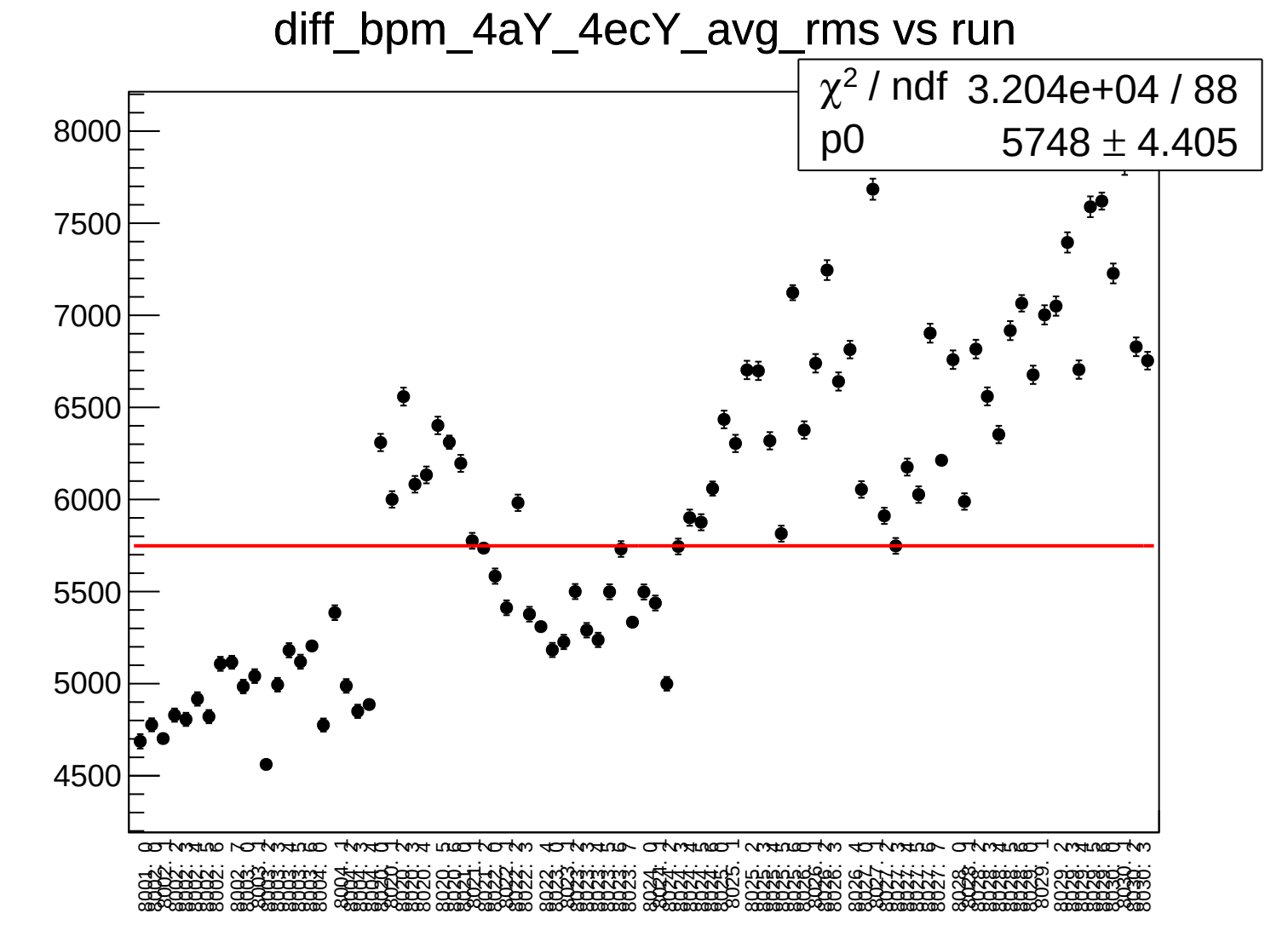

diff_bpm_4aY_4eY_dd_mean vs run
χ² / ndf 100.3 / 88
p0 0.2011 ± 0.4529
pull
Entries 89
Mean 0.9383
Std Dev 0

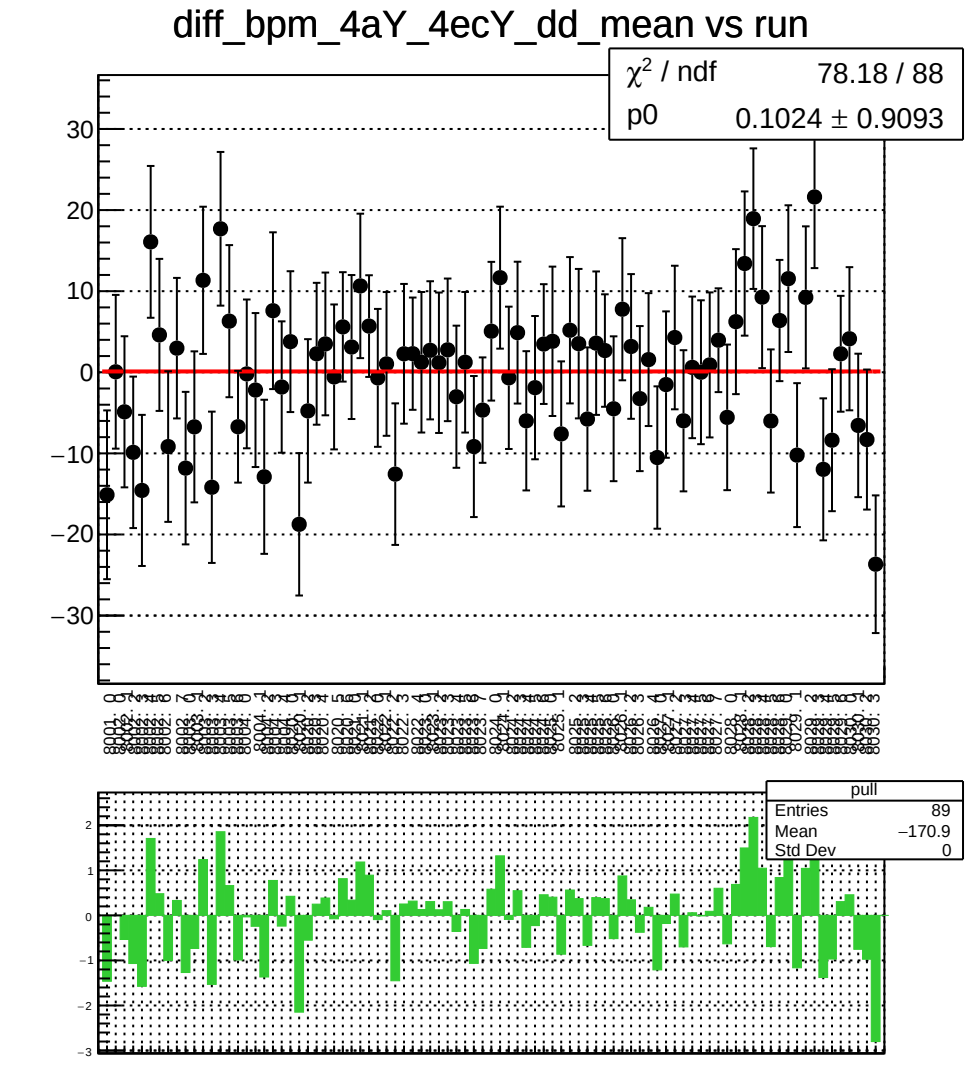

pull1D
Entries 89
Mean −0.008329
Std Dev 1.061

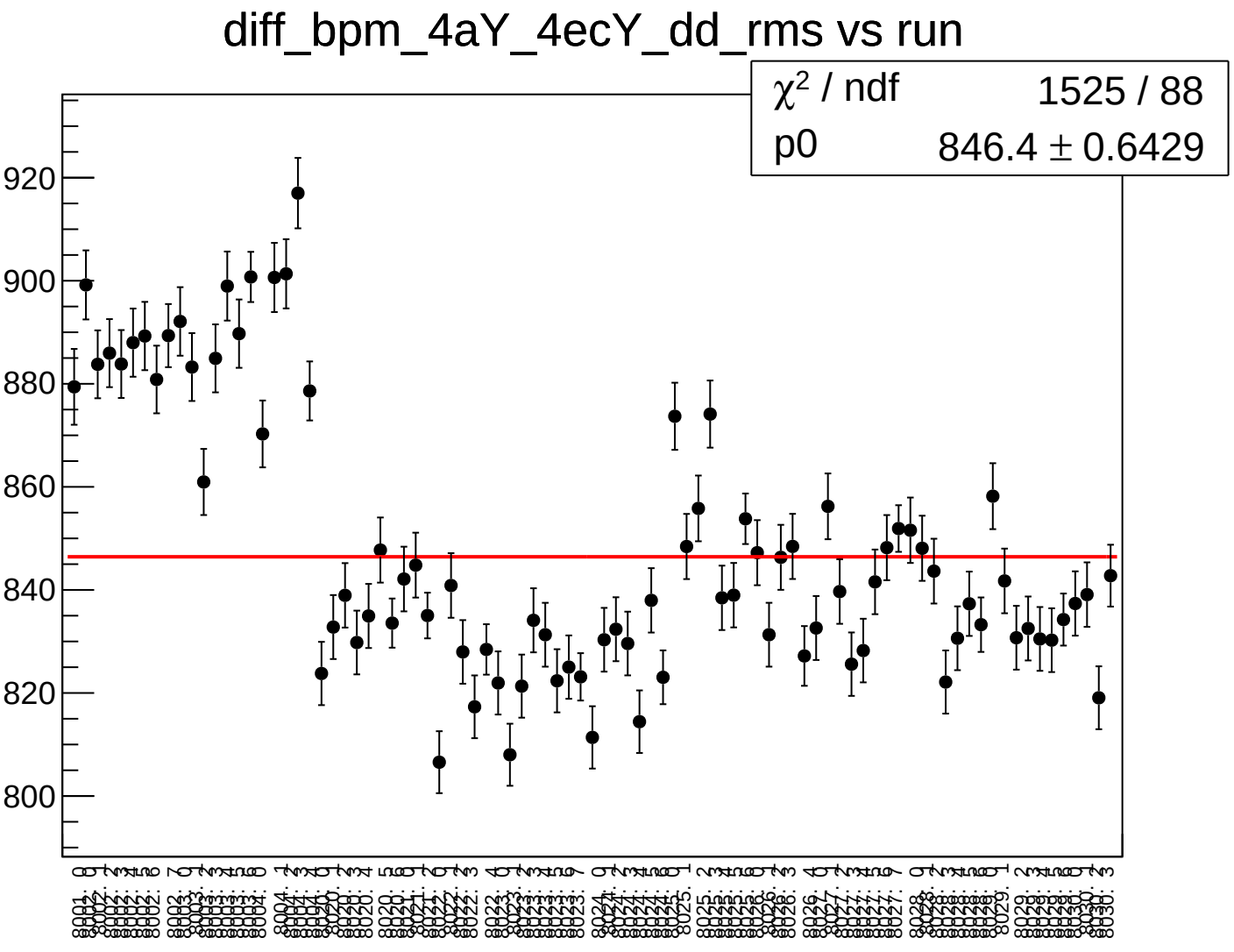

diff_bpm_4aY_4eY_dd_rms vs run
χ² / ndf 8686 / 88
p0 420.7 ± 0.3202
500
480
460
440
420
400
380

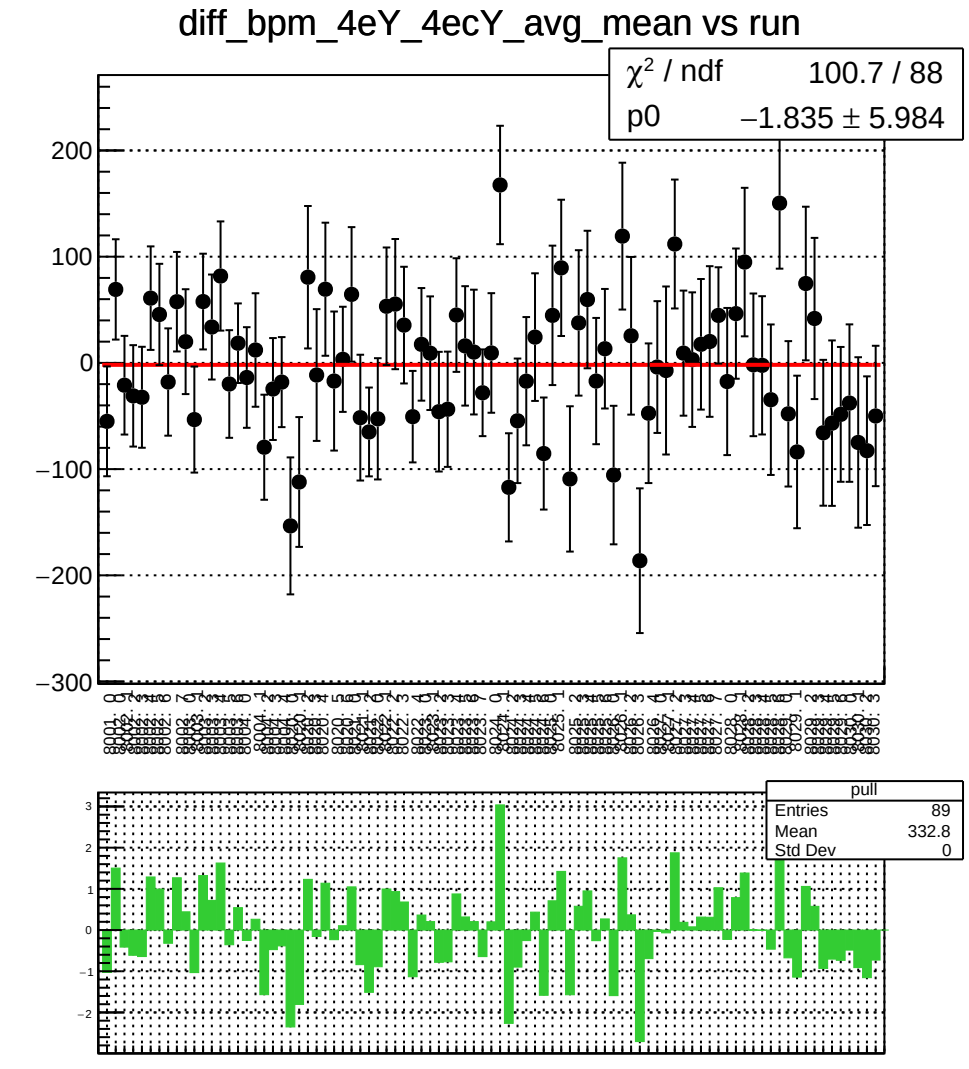

diff_bpm_4aY_4ecY_avg_mean vs run
χ² / ndf 100.8 / 88
p0 −1.705 ± 6.23
200
100
0
−100
−200
−300
pull
Entries 89
Mean 329.6
Std Dev 0
3
2
1
0
−1
−2

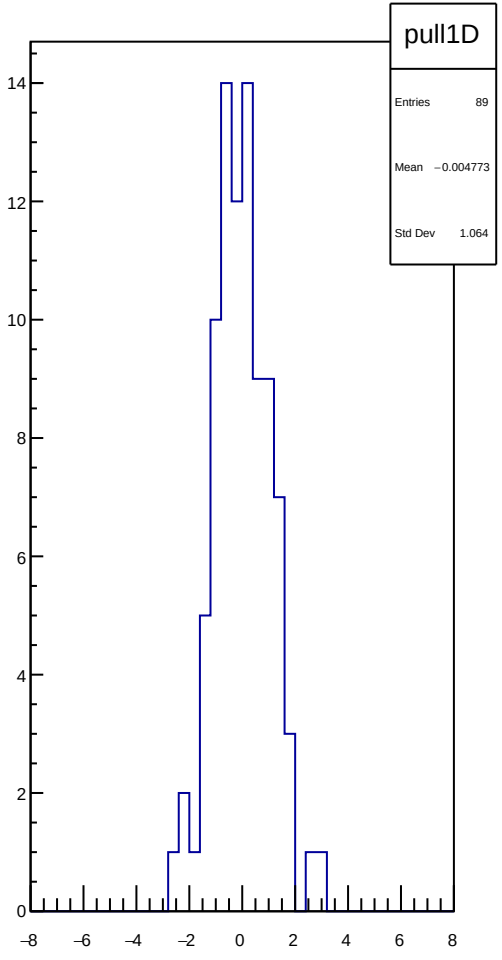

pull1D
Entries 89
Mean −0.004489
Std Dev 1.064
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

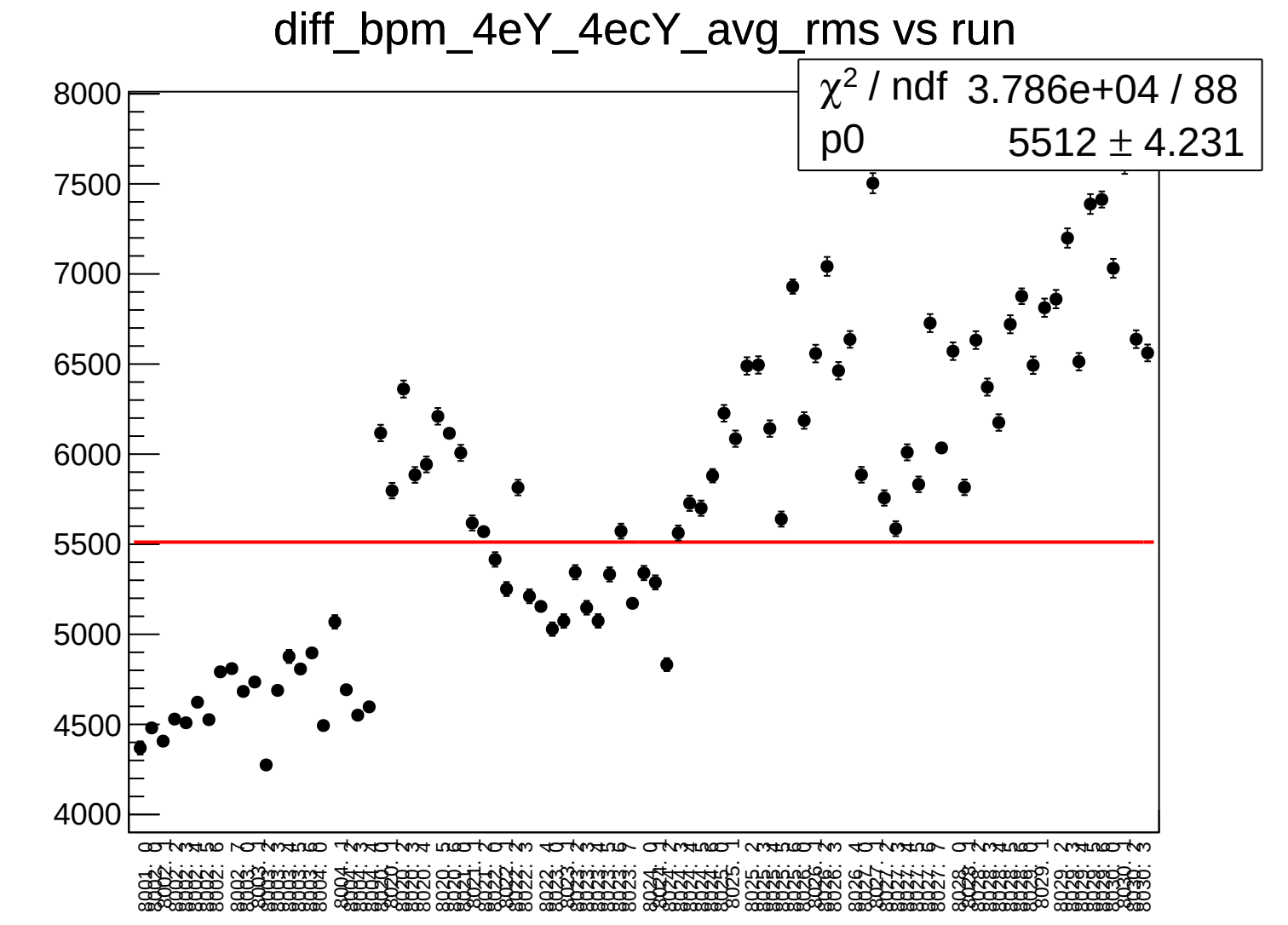

diff_bpm_4aY_4ecY_avg_rms vs run
χ² / ndf 3.204e+04 / 88
p0 5748 ± 4.405
8000
7500
7000
6500
6000
5500
5000
4500

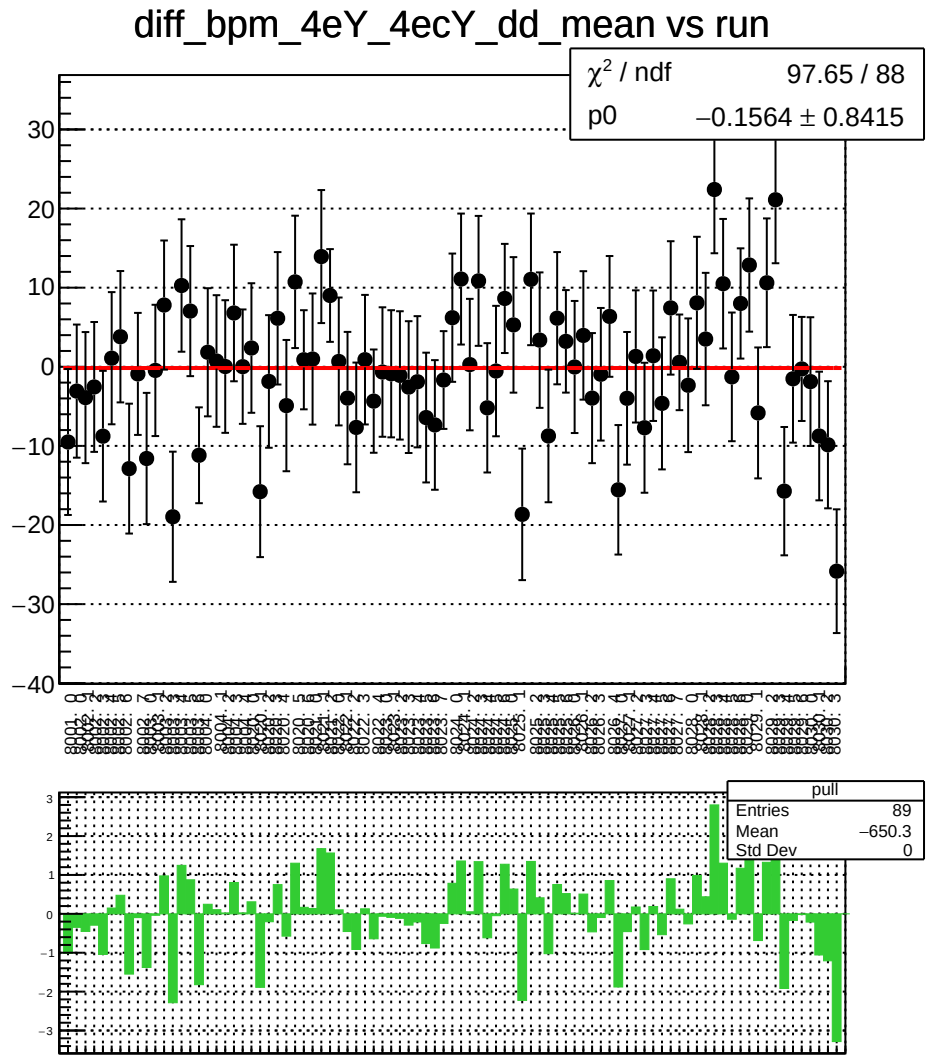

diff_bpm_4aY_4ecY_dd_mean vs run
χ² / ndf 78.18 / 88
p0 0.1024 ± 0.9093
pull
Entries 89
Mean −170.9
Std Dev 0
pull1D
Entries 89
Mean −0.01131
Std Dev 0.9372

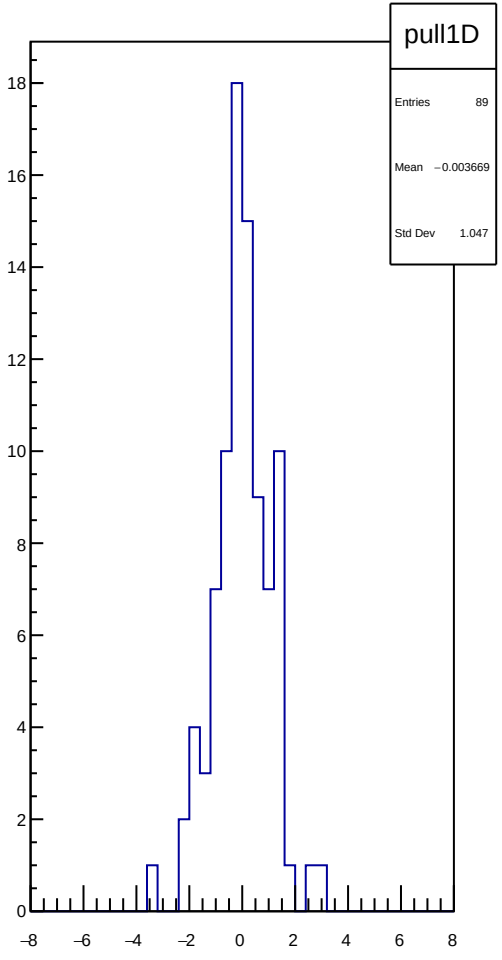

diff_bpm_4aY_4ecY_dd_rms vs run
χ² / ndf 1525 / 88
p0 846.4 ± 0.6429
920
900
880
860
840
820
800

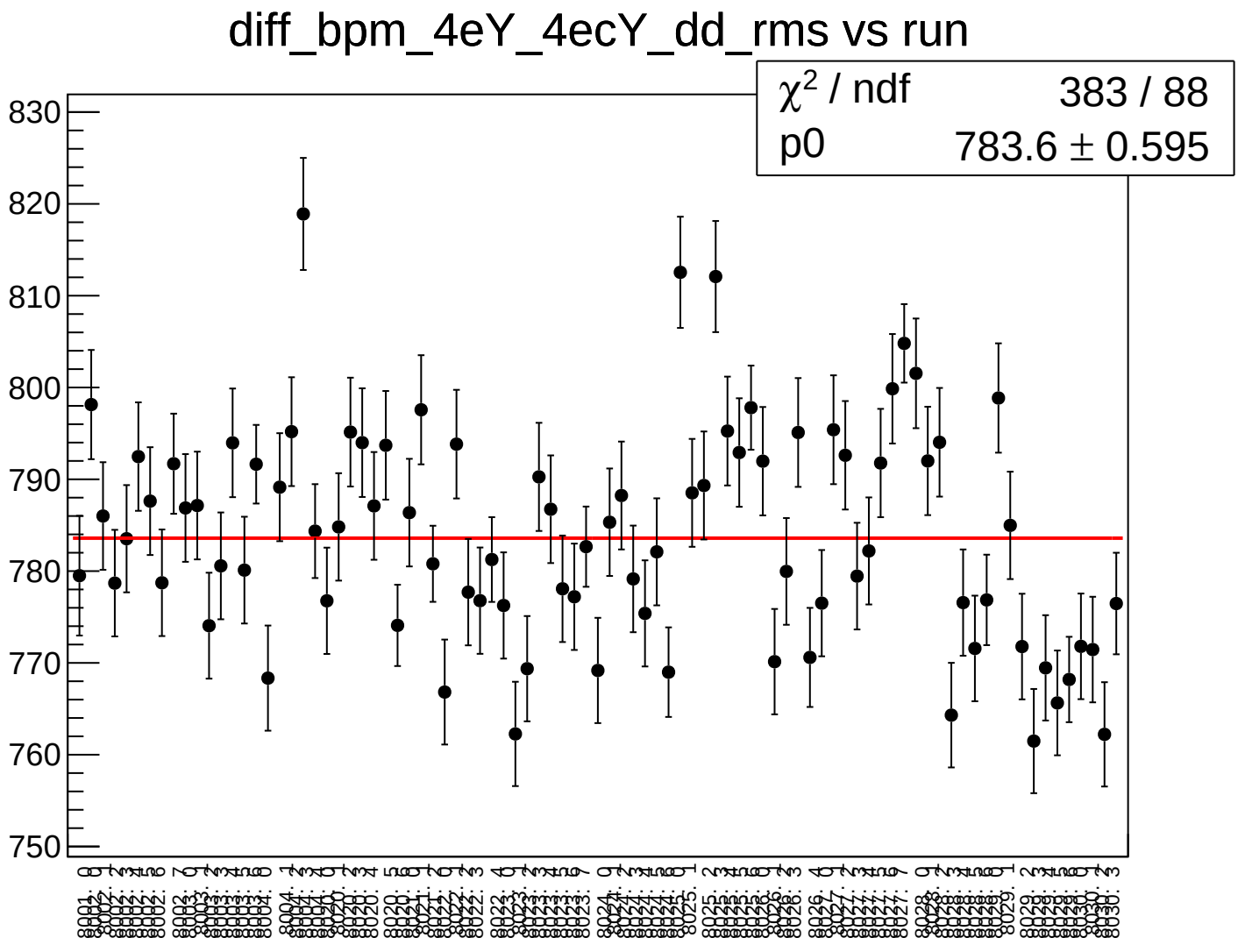

diff_bpm_4eY_4ecY_avg_mean vs run
χ² / ndf 100.7 / 88
p0 −1.835 ± 5.984
pull
Entries 89
Mean 332.8
Std Dev 0

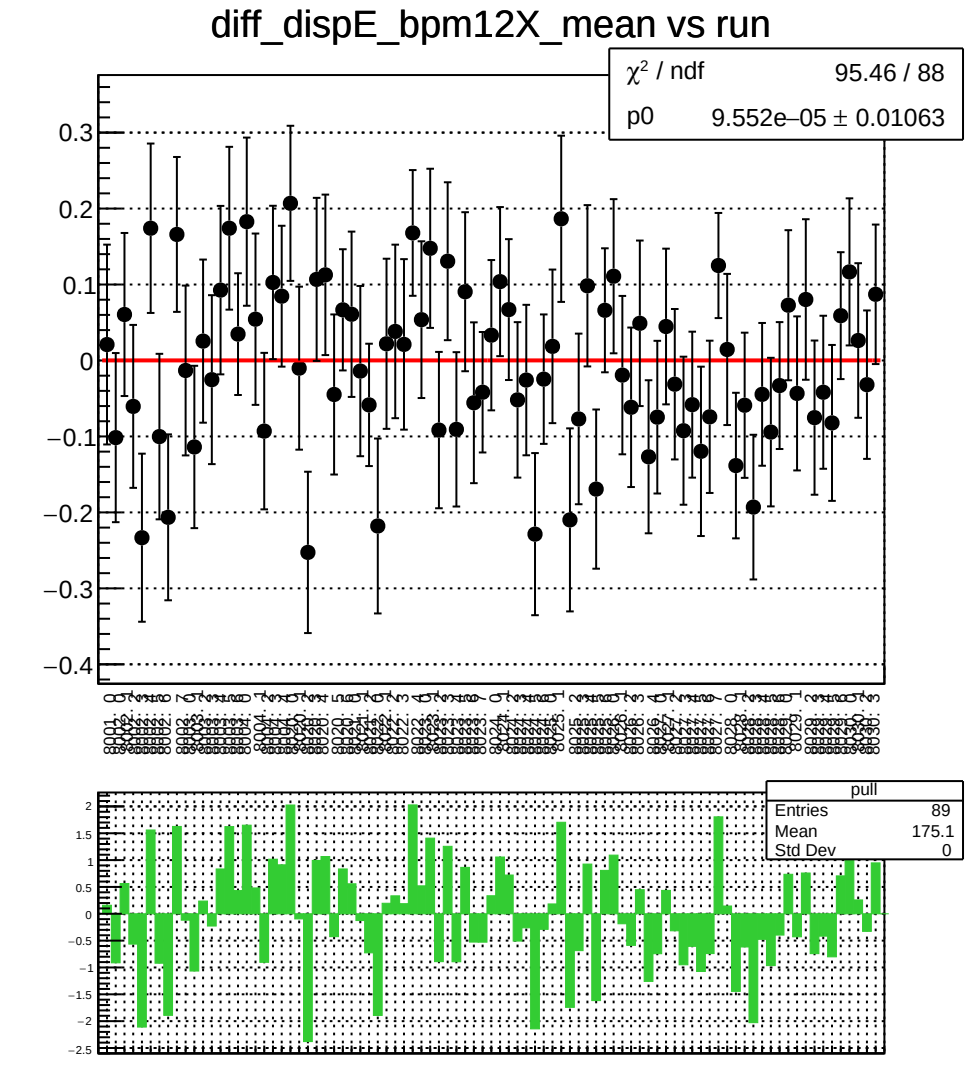

pull1D
Entries 89
Mean −0.004773
Std Dev 1.064

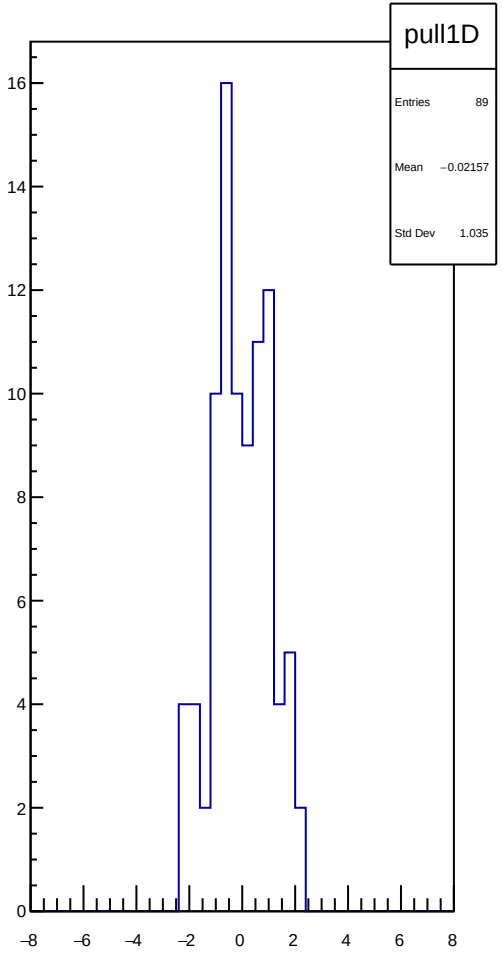

diff_bpm_4eY_4ecY_avg_rms vs run
χ² / ndf 3.786e+04 / 88
p0 5512 ± 4.231
8000
7500
7000
6500
6000
5500
5000
4500
4000

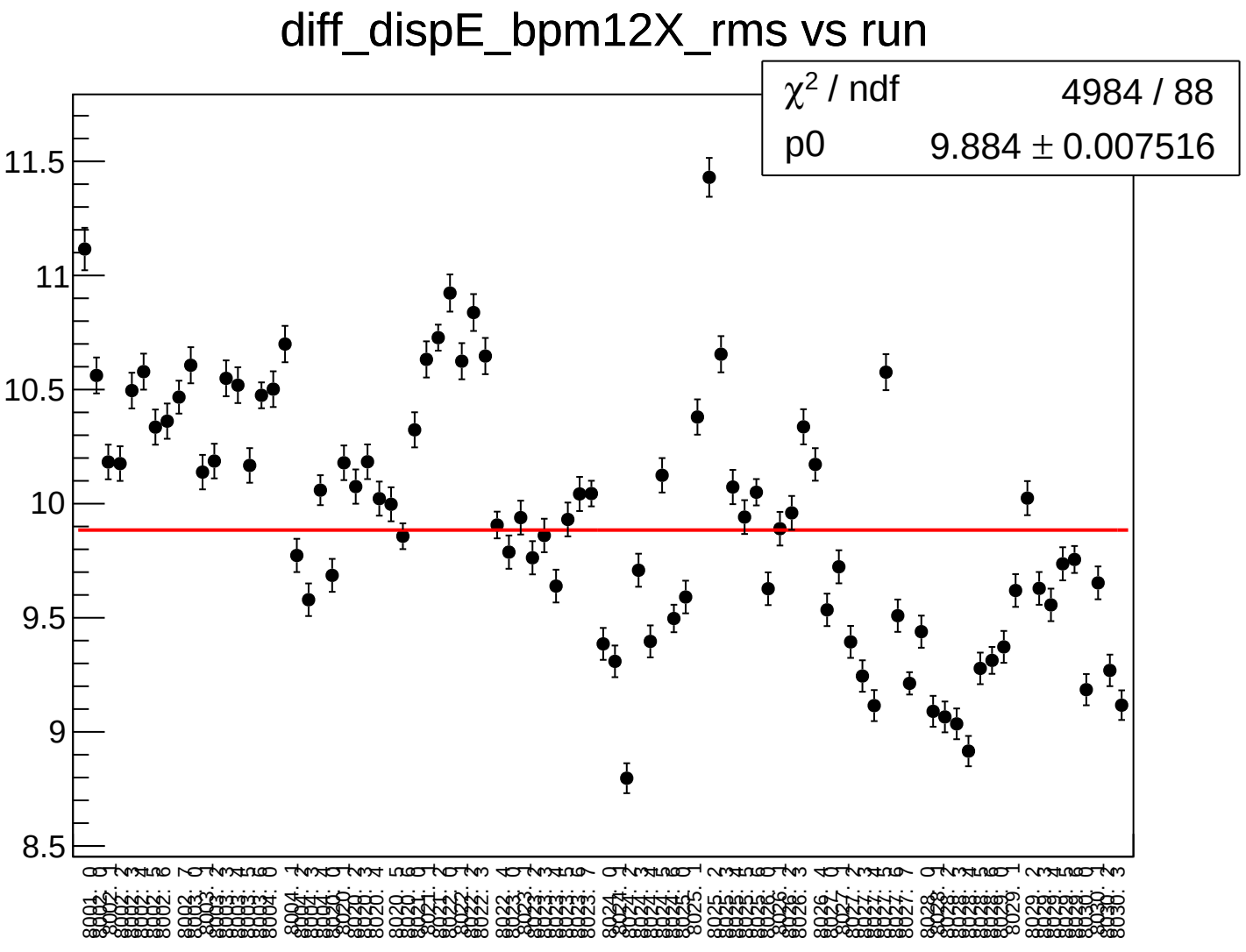

diff_bpm_4eY_4ecY_dd_mean vs run
χ² / ndf 97.65 / 88
p0 −0.1564 ± 0.8415
pull
Entries 89
Mean −650.3
Std Dev 0

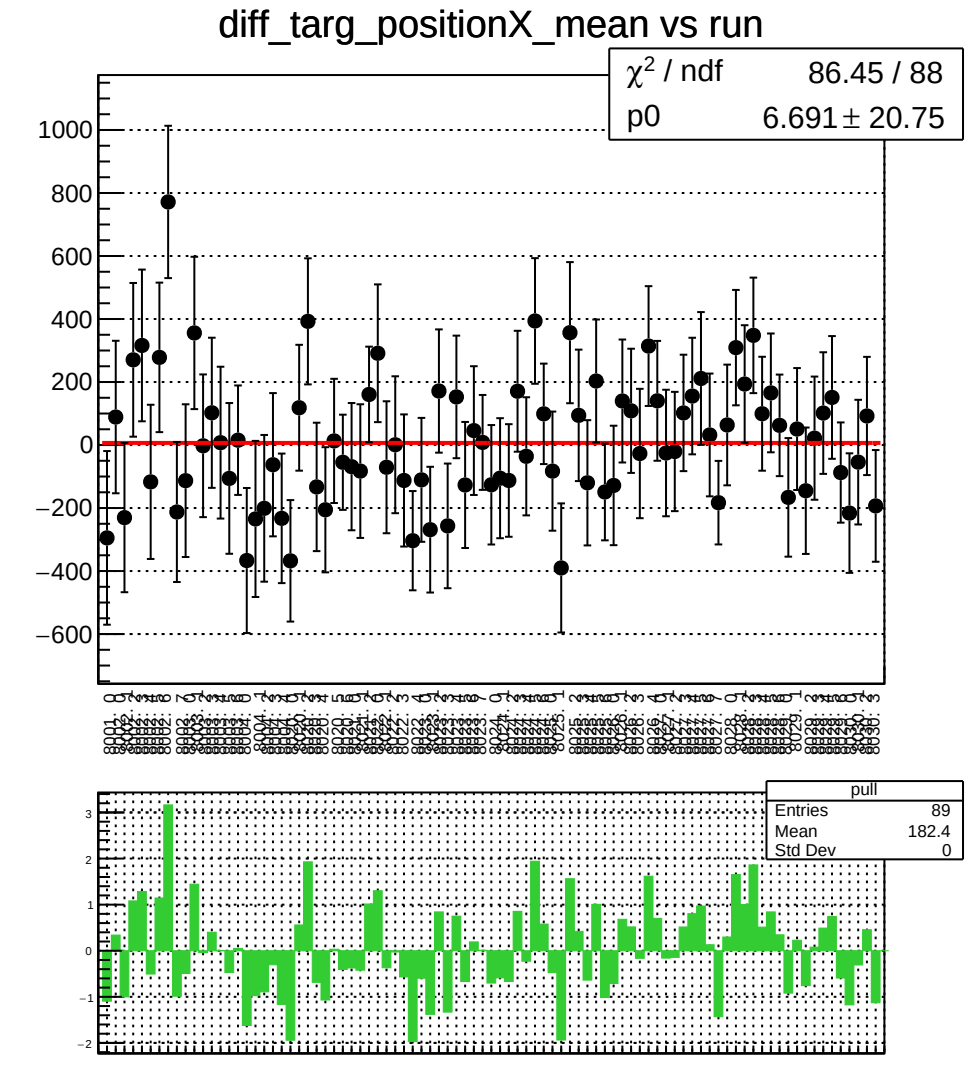

pull1D
Entries 89
Mean −0.003669
Std Dev 1.047

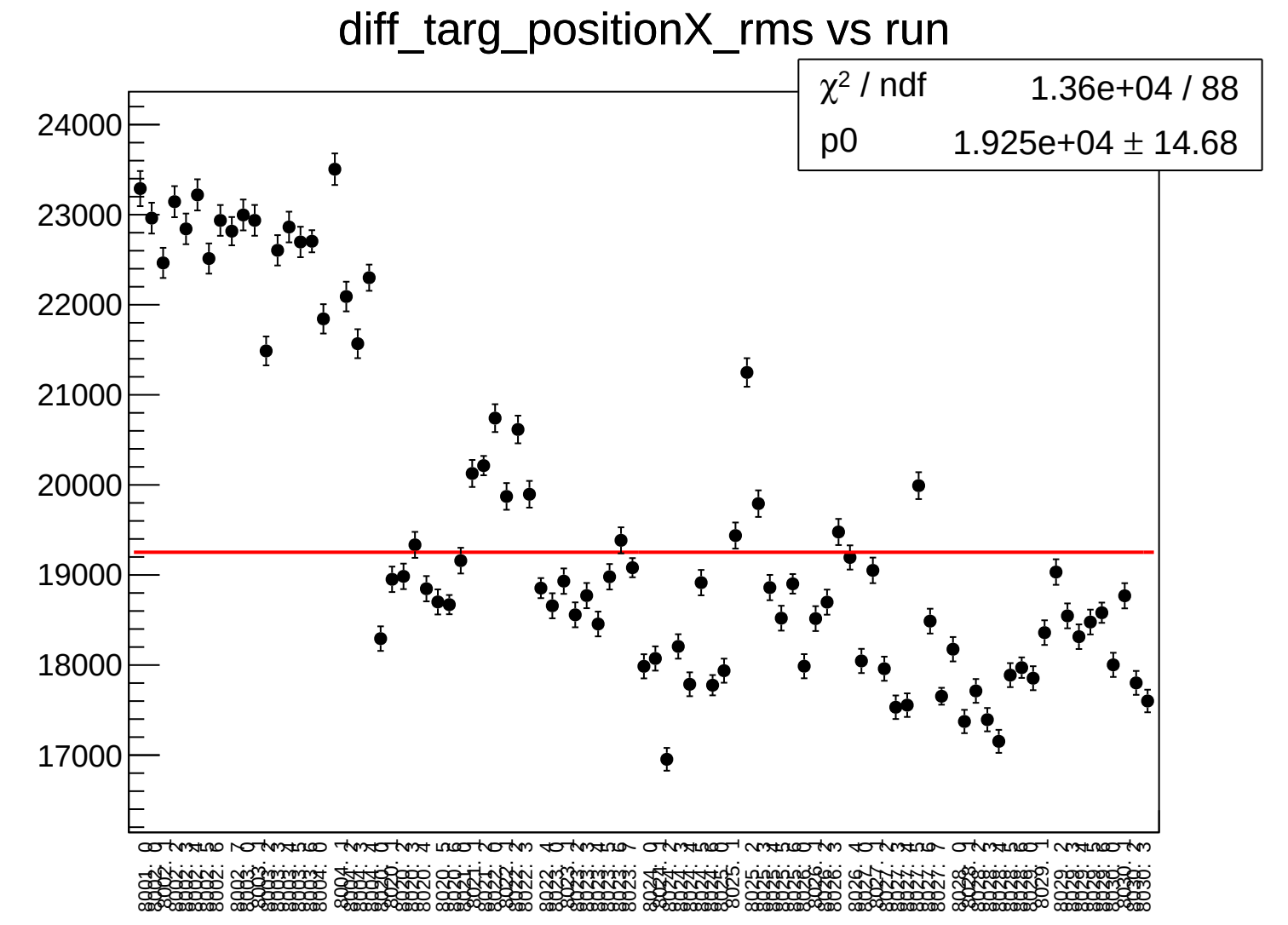

diff_bpm_4eY_4ecY_dd_rms vs run
χ² / ndf 383 / 88
p0 783.6 ± 0.595
830
820
810
800
790
780
770
760
750

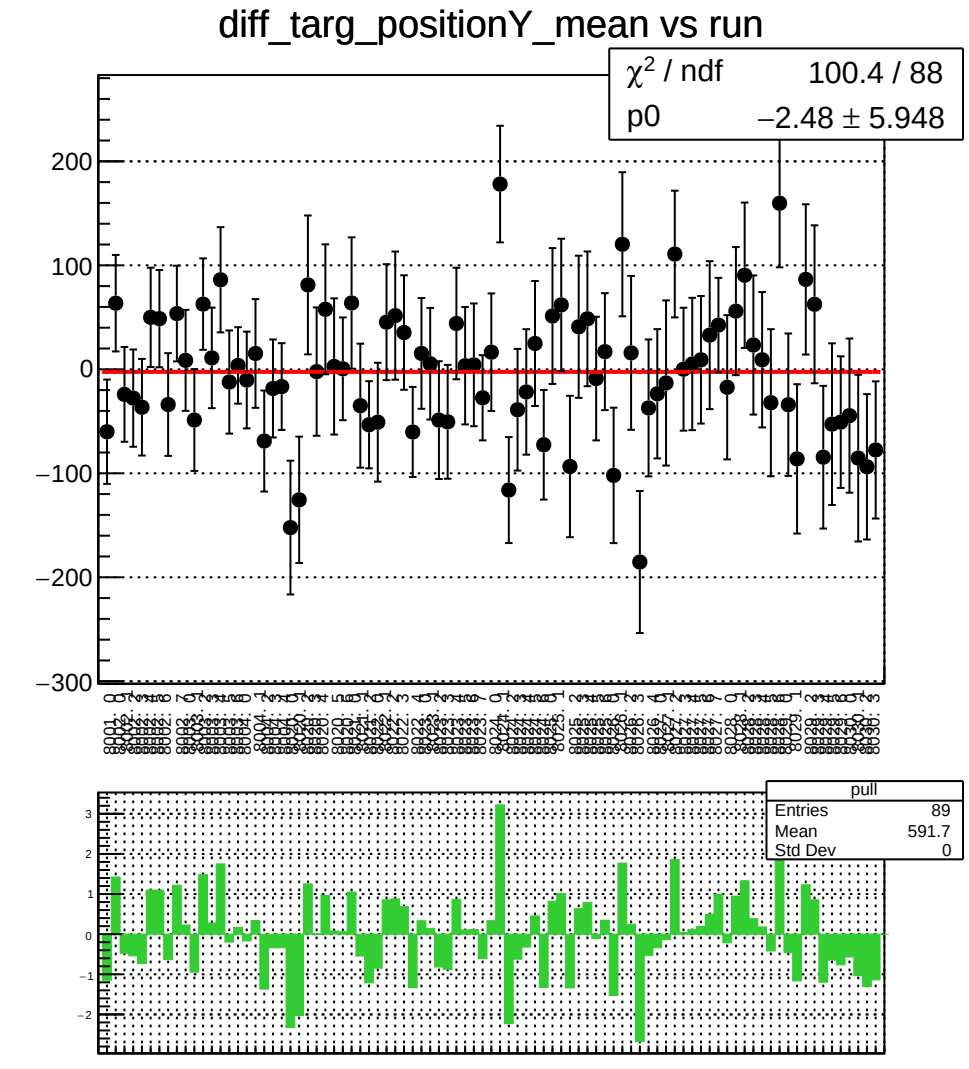

diff_dispE_bpm12X_mean vs run
χ² / ndf 95.46 / 88
p0 9.552e−05 ± 0.01063
pull
Entries 89
Mean 175.1
Std Dev 0

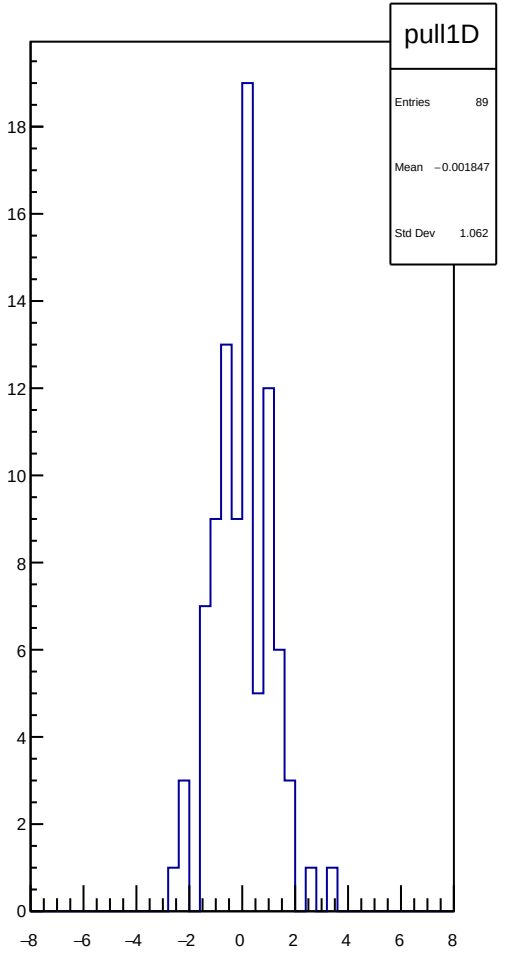

pull1D
Entries 89
Mean −0.02157
Std Dev 1.035

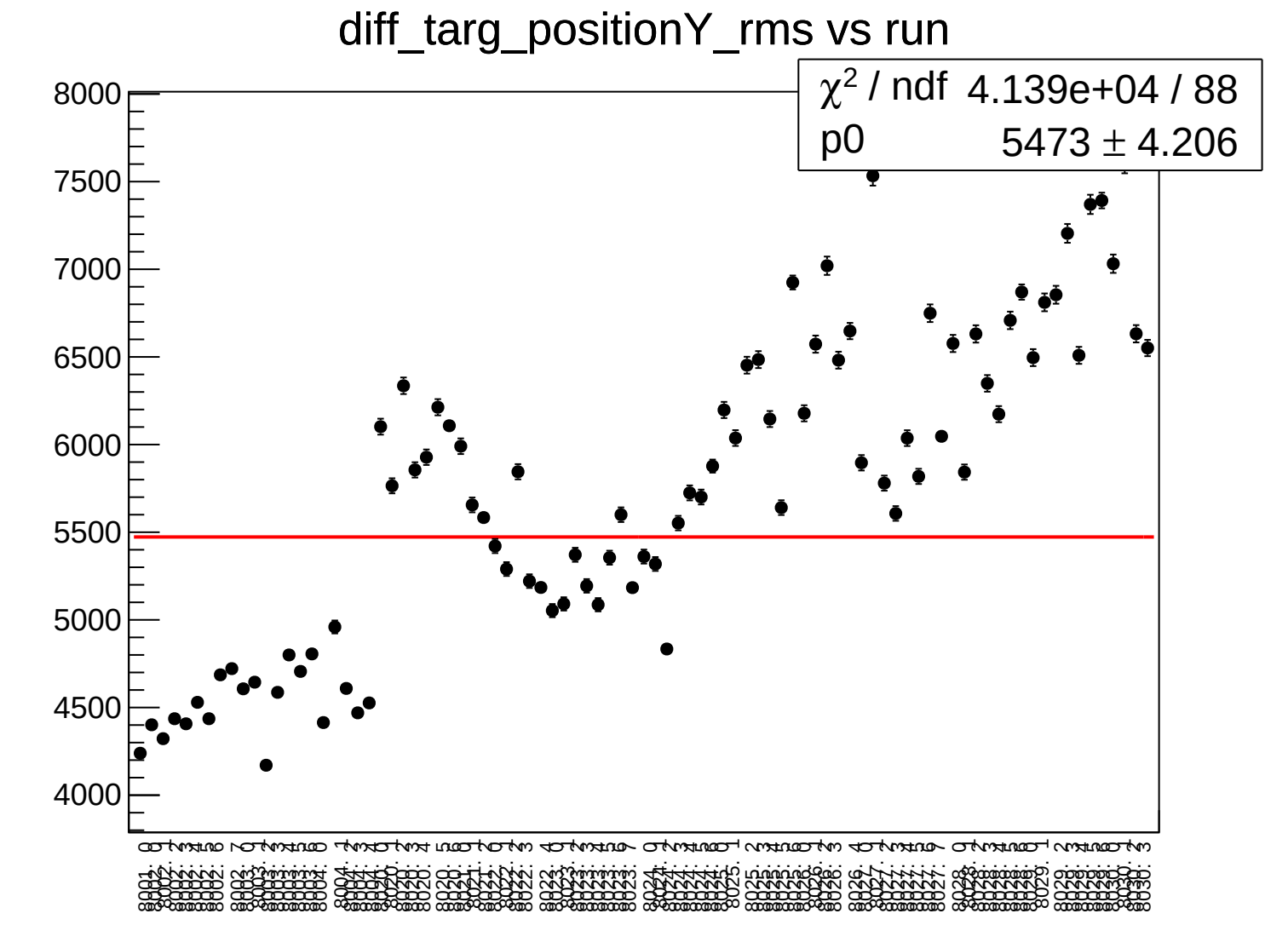

diff_dispE_bpm12X_rms vs run
χ² / ndf 4984 / 88
p0 9.884 ± 0.007516
11.5
11
10.5
10
9.5
9
8.5

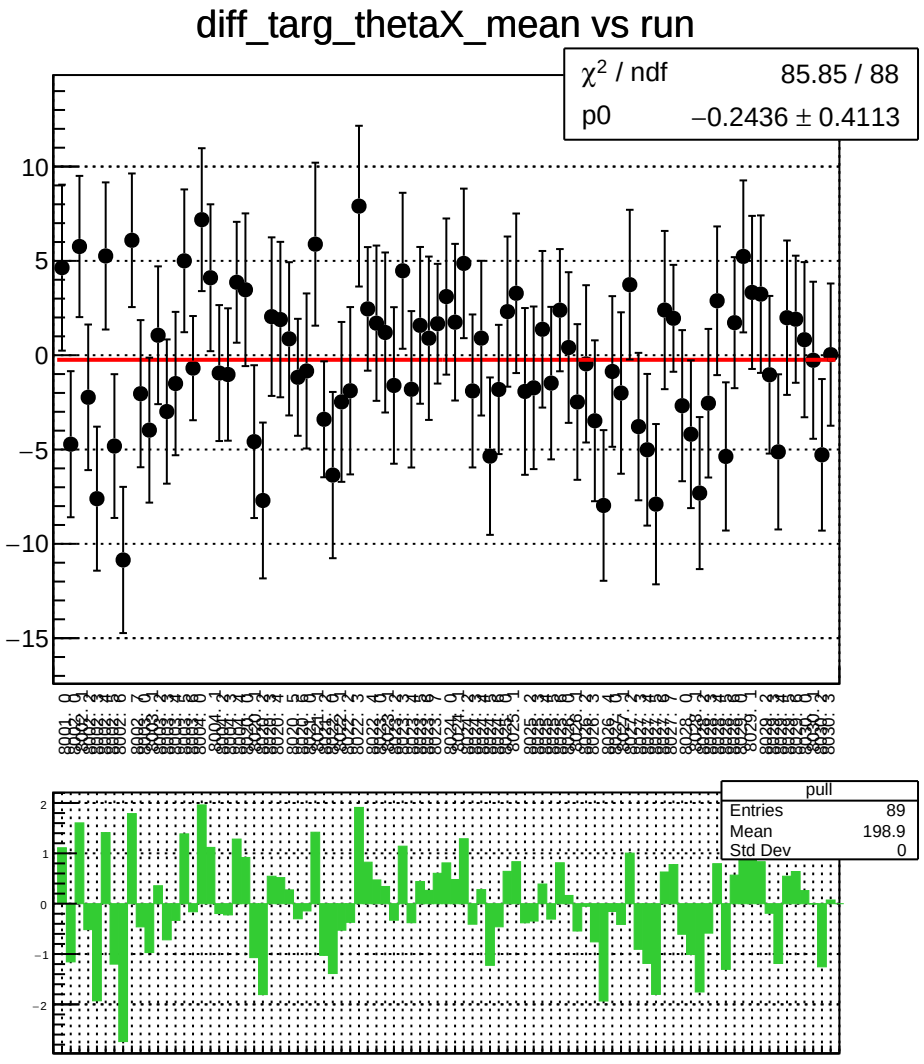

diff_targ_positionX_mean vs run
χ² / ndf 86.45 / 88
p0 6.691 ± 20.75
pull
Entries 89
Mean 182.4
Std Dev 0
pull1D
Entries 89
Mean 0.01421
Std Dev 0.9855

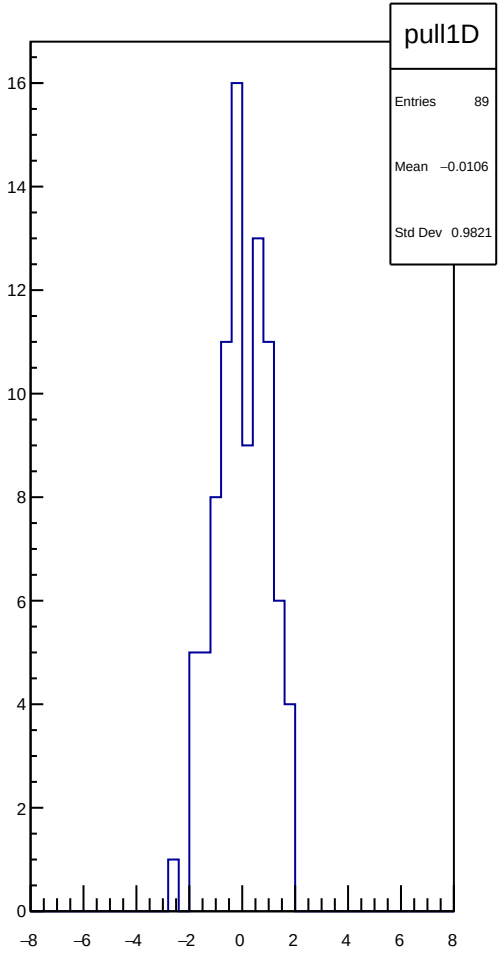

diff_targ_positionX_rms vs run
χ² / ndf 1.36e+04 / 88
p0 1.925e+04 ± 14.68
24000
23000
22000
21000
20000
19000
18000
17000

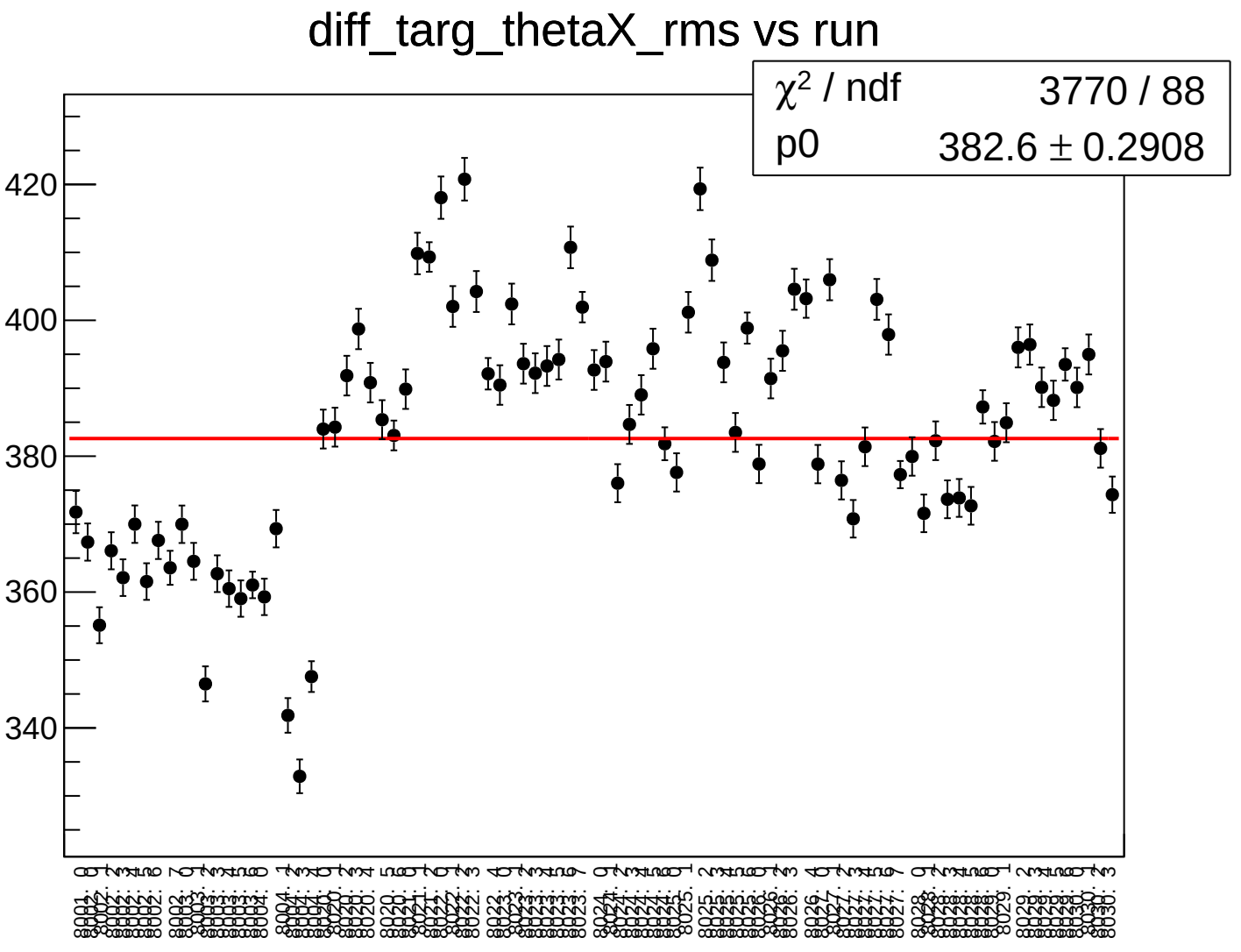

diff_targ_positionY_mean vs run
χ² / ndf 100.4 / 88
p0 −2.48 ± 5.948
pull
Entries 89
Mean 591.7
Std Dev 0

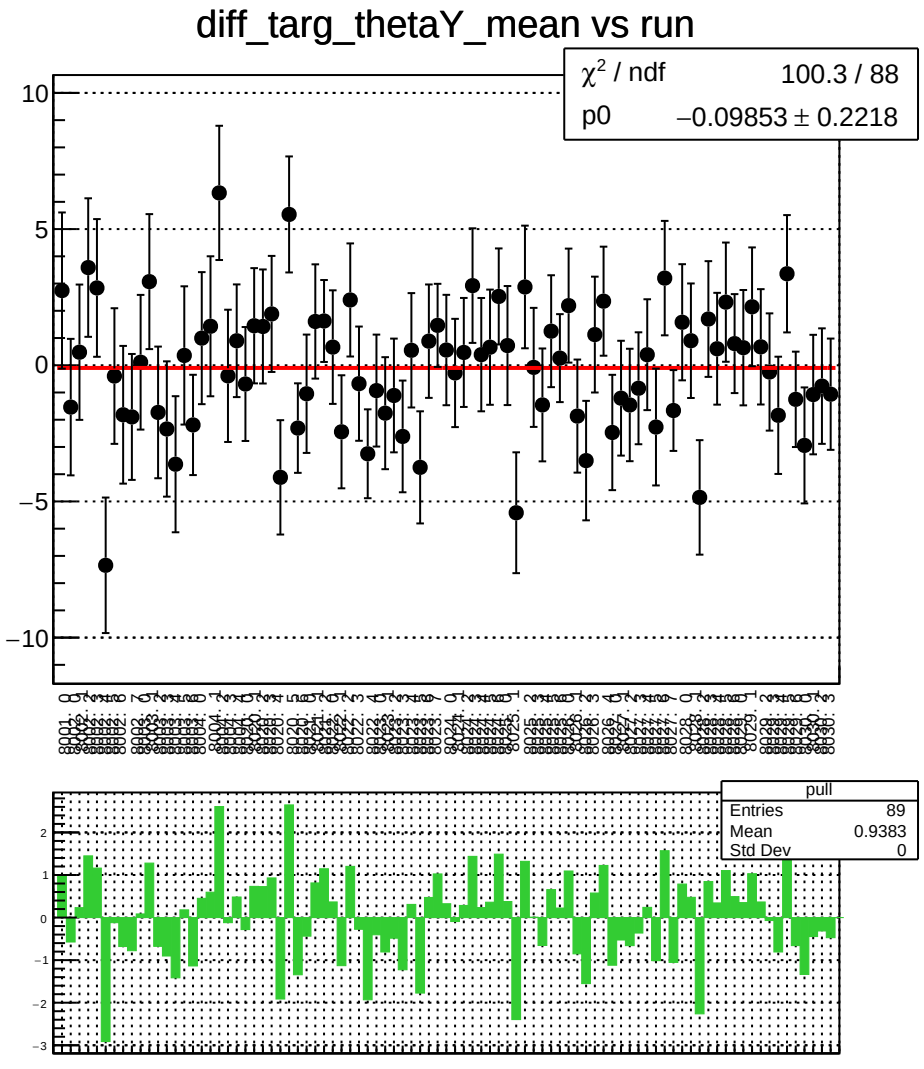

pull1D
Entries 89
Mean −0.001847
Std Dev 1.062

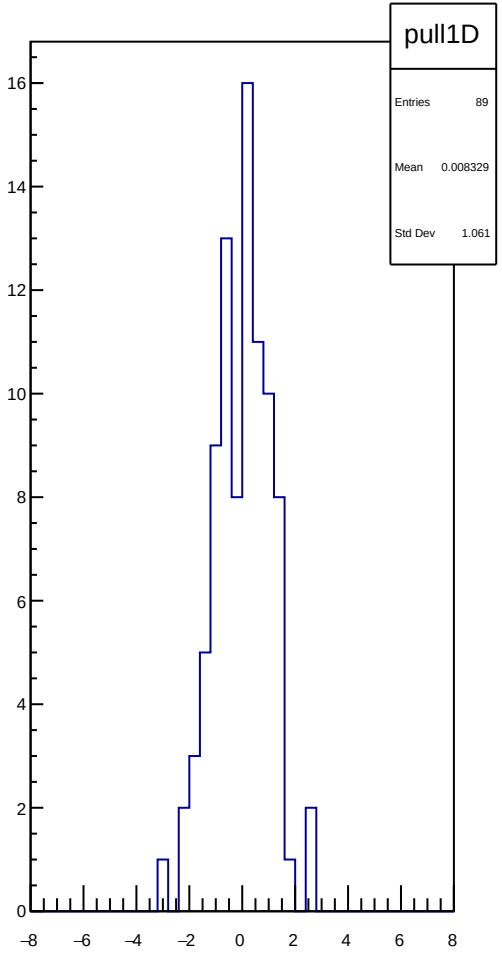

diff_targ_positionY_rms vs run
χ² / ndf 4.139e+04 / 88
p0 5473 ± 4.206
8000
7500
7000
6500
6000
5500
5000
4500
4000

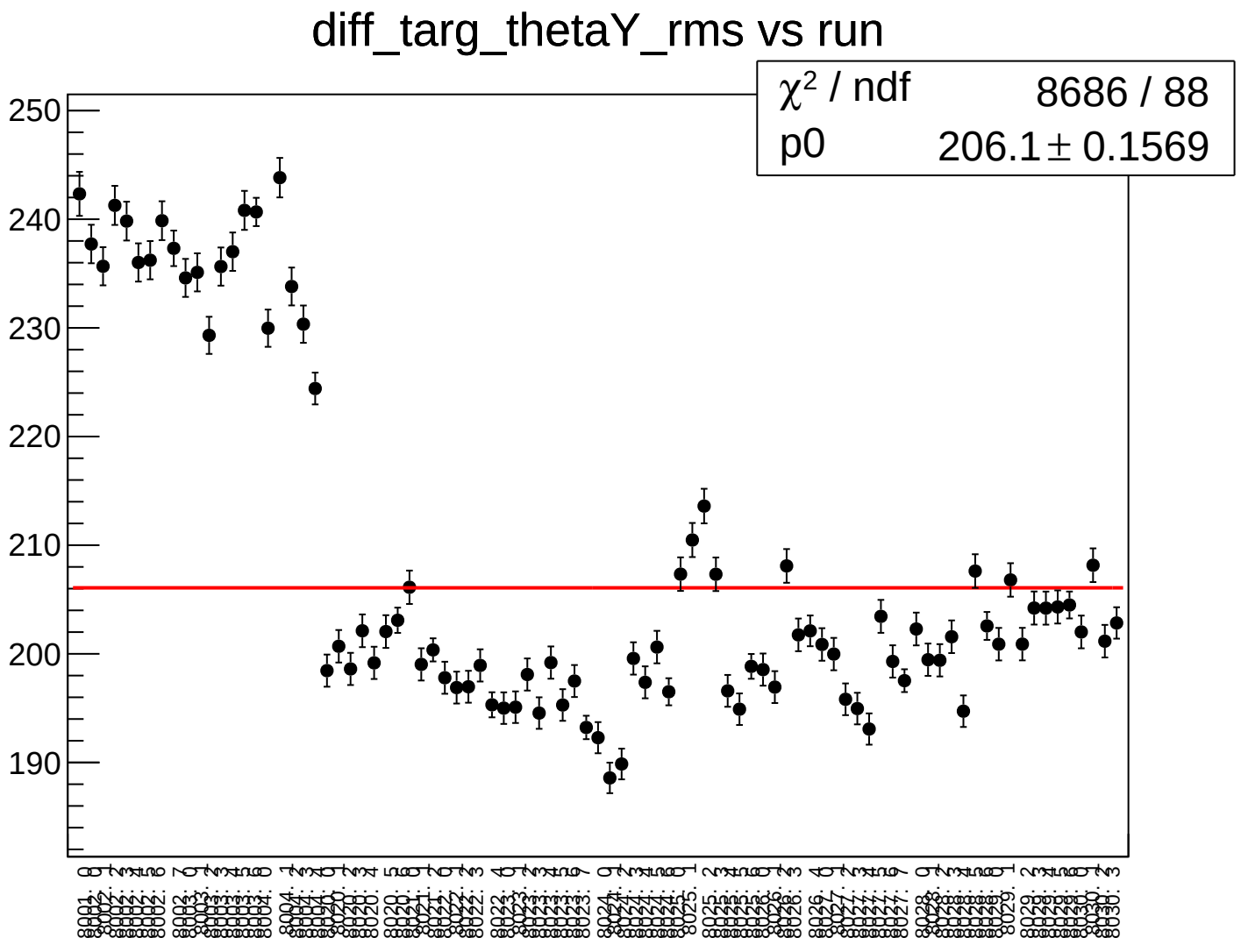

diff_targ_thetaX_mean vs run
χ² / ndf 85.85 / 88
p0 −0.2436 ± 0.4113
pull
Entries 89
Mean 198.9
Std Dev 0

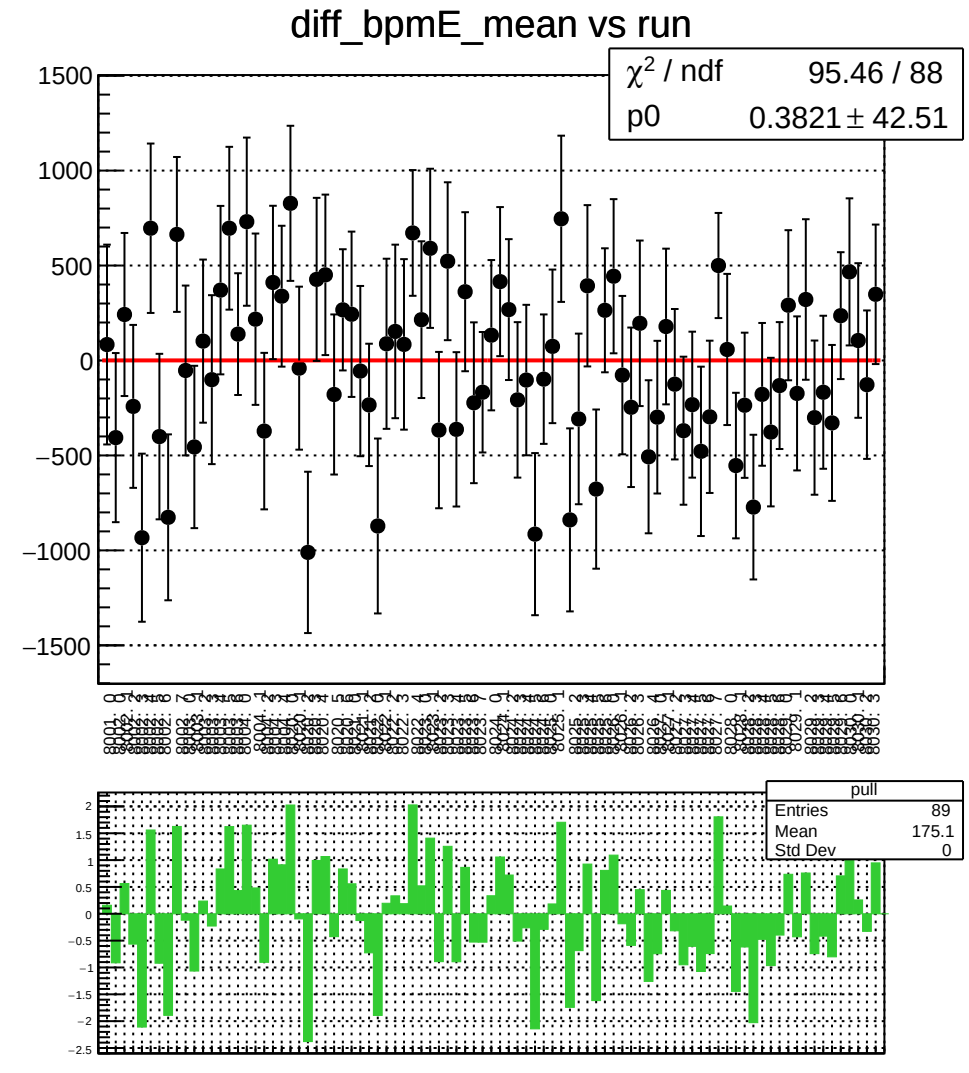

pull1D
Entries 89
Mean −0.0106
Std Dev 0.9821

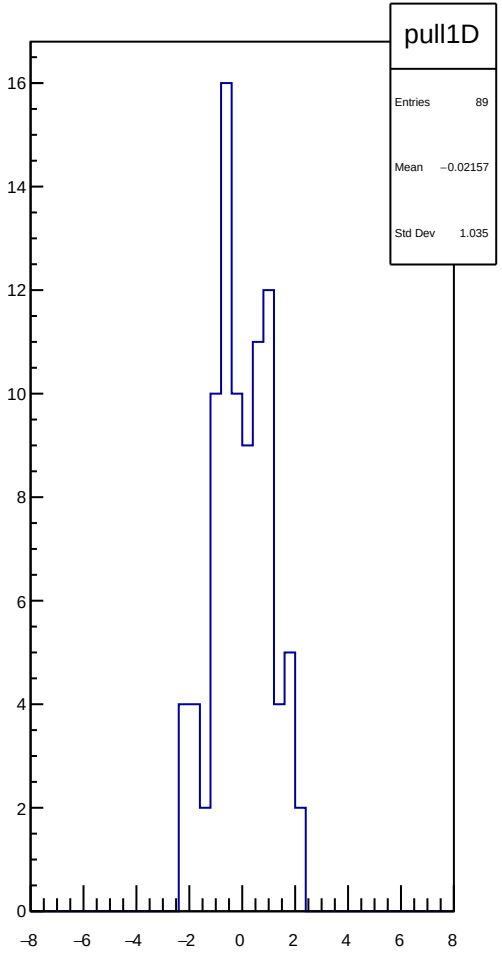

diff_targ_thetaX_rms vs run
χ² / ndf 3770 / 88
p0 382.6 ± 0.2908
420
400
380
360
340

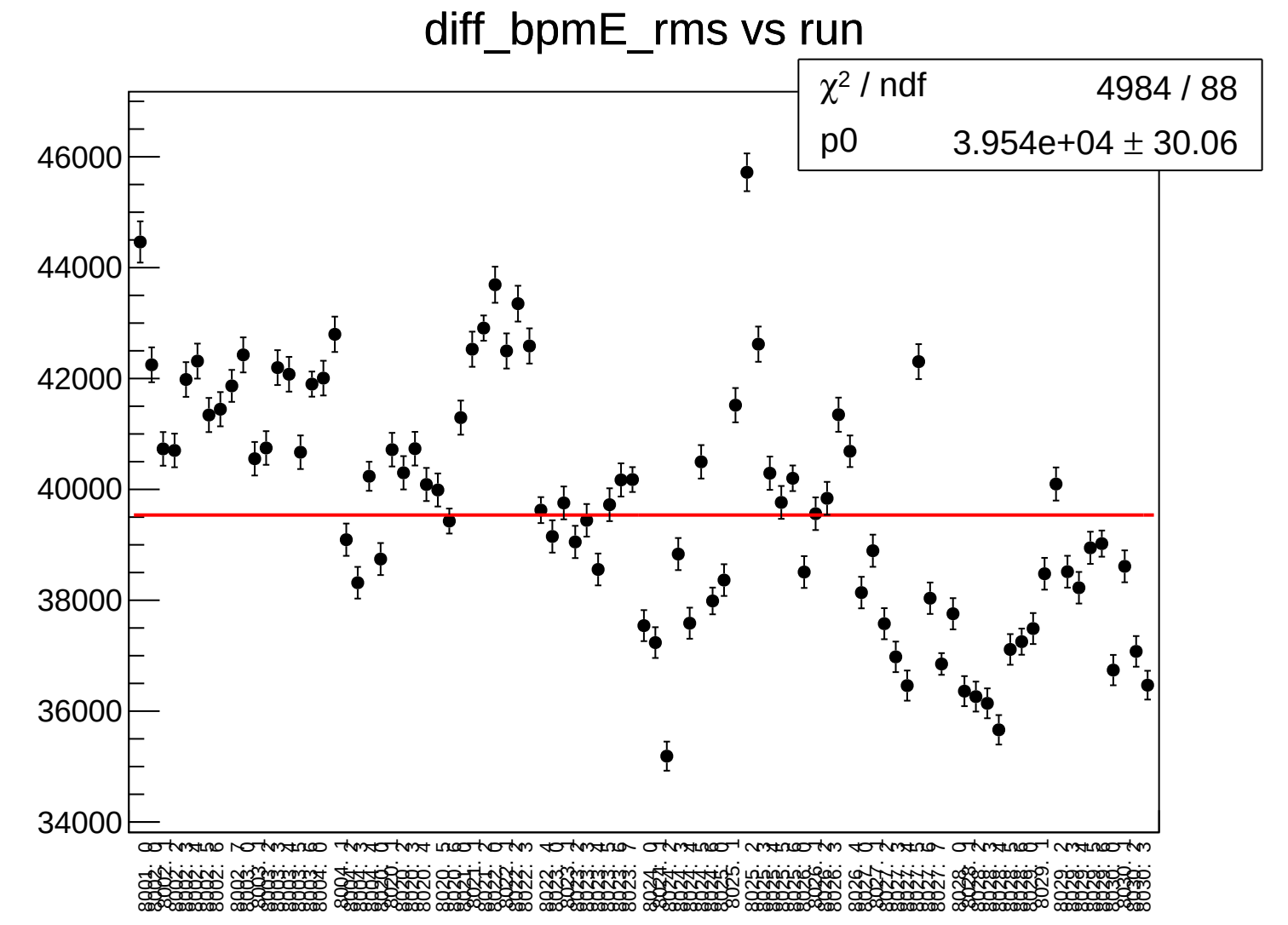

diff_targ_thetaY_mean vs run
χ² / ndf 100.3 / 88
p0 −0.09853 ± 0.2218
pull
Entries 89
Mean 0.9383
Std Dev 0

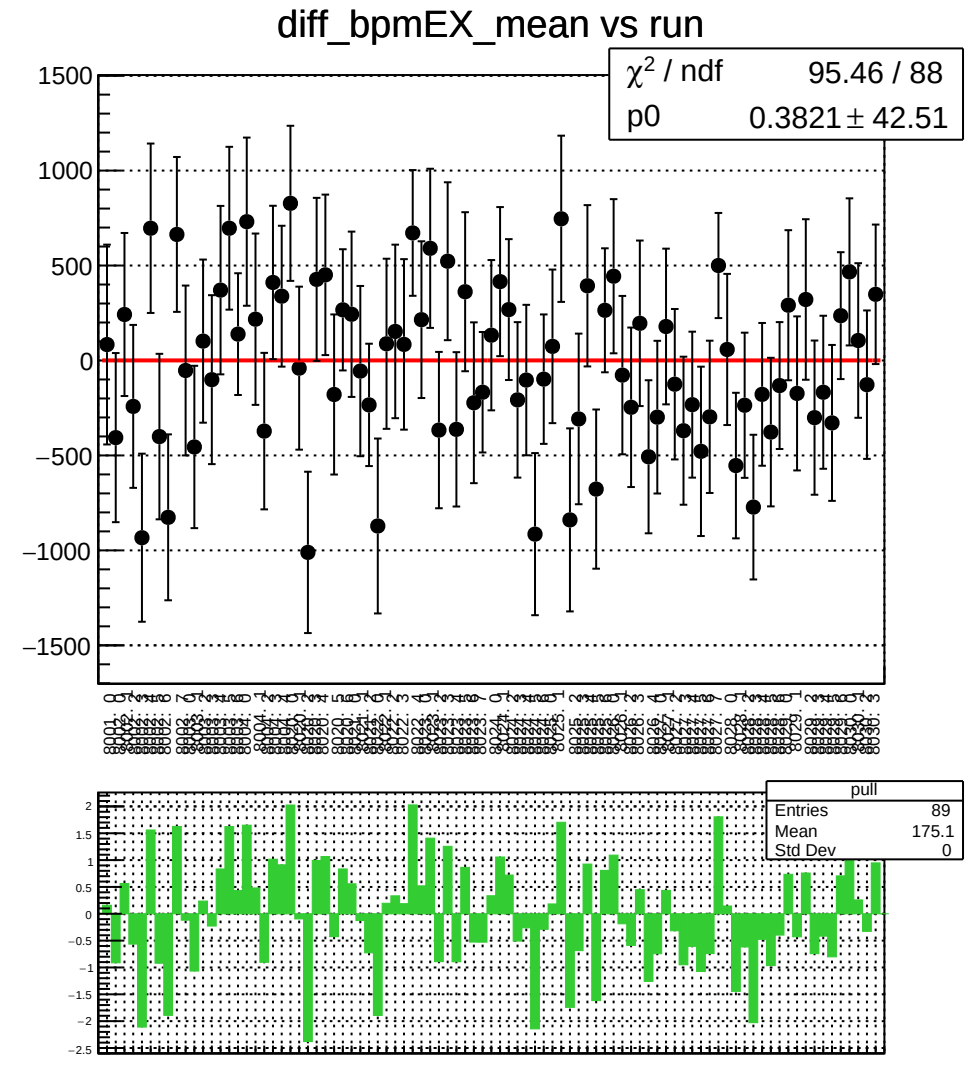

pull1D
Entries 89
Mean 0.008329
Std Dev 1.061

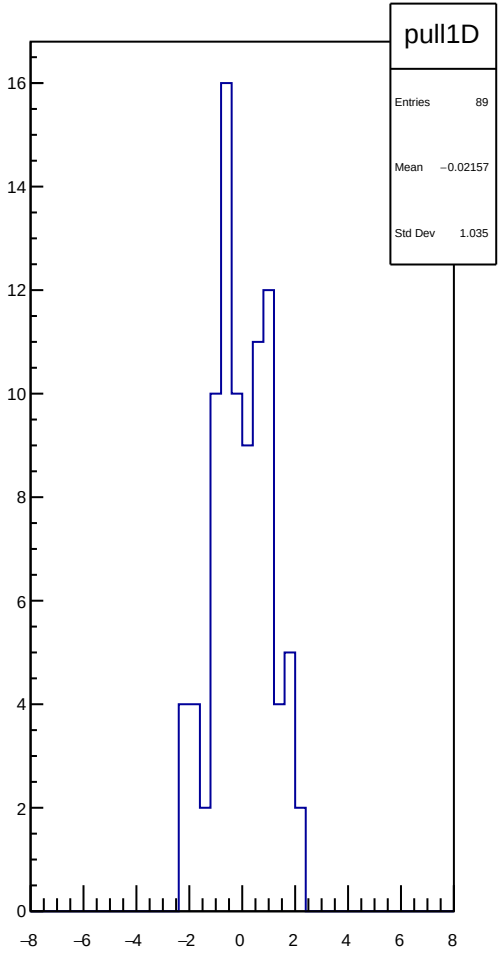

diff_targ_thetaY_rms vs run
χ² / ndf 8686 / 88
p0 206.1 ± 0.1569
250
240
230
220
210
200
190

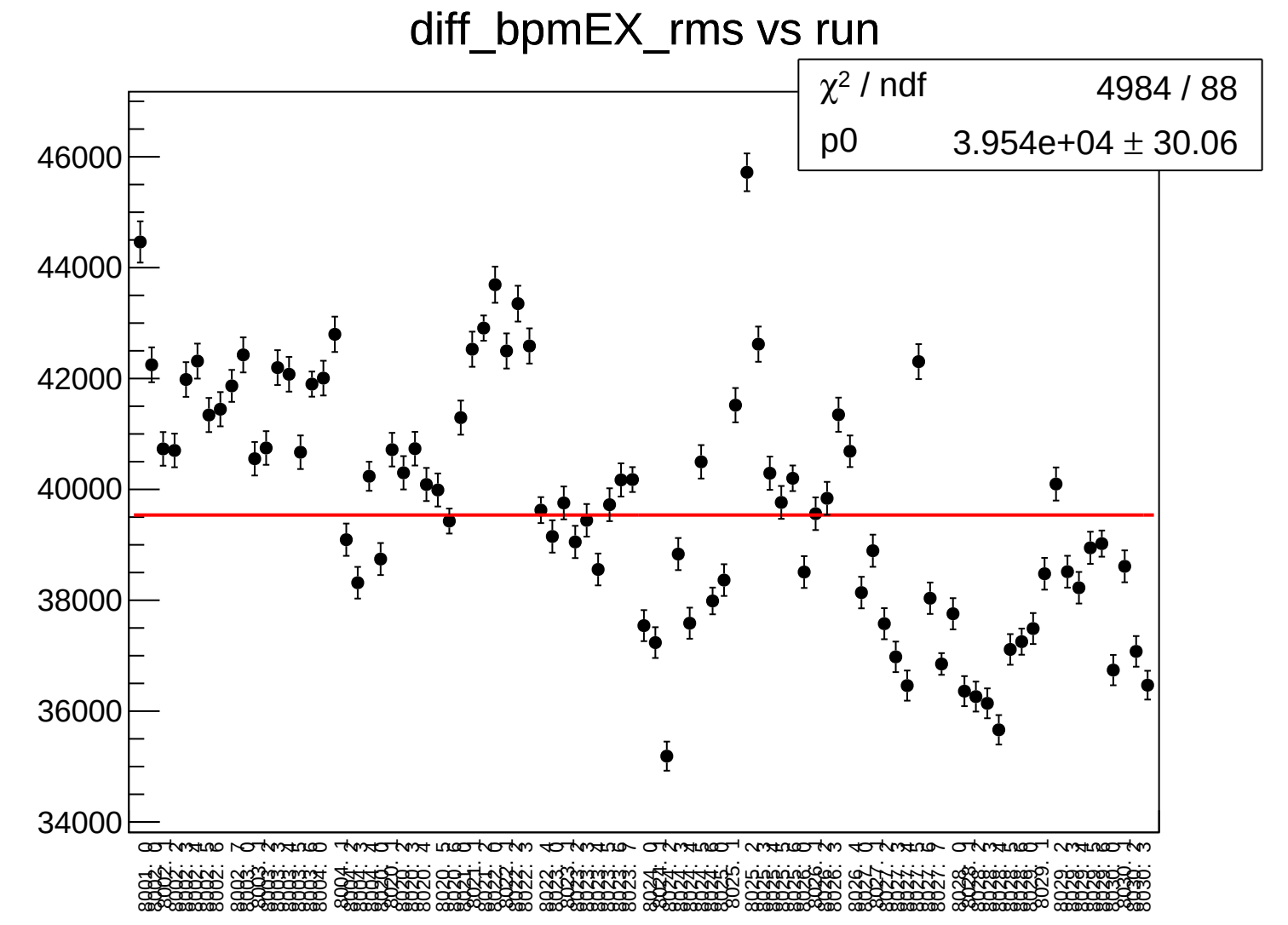

diff_bpmE_mean vs run
χ^2 / ndf 95.46 / 88
p0 0.3821 ± 42.51
pull
Entries 89
Mean 175.1
Std Dev 0

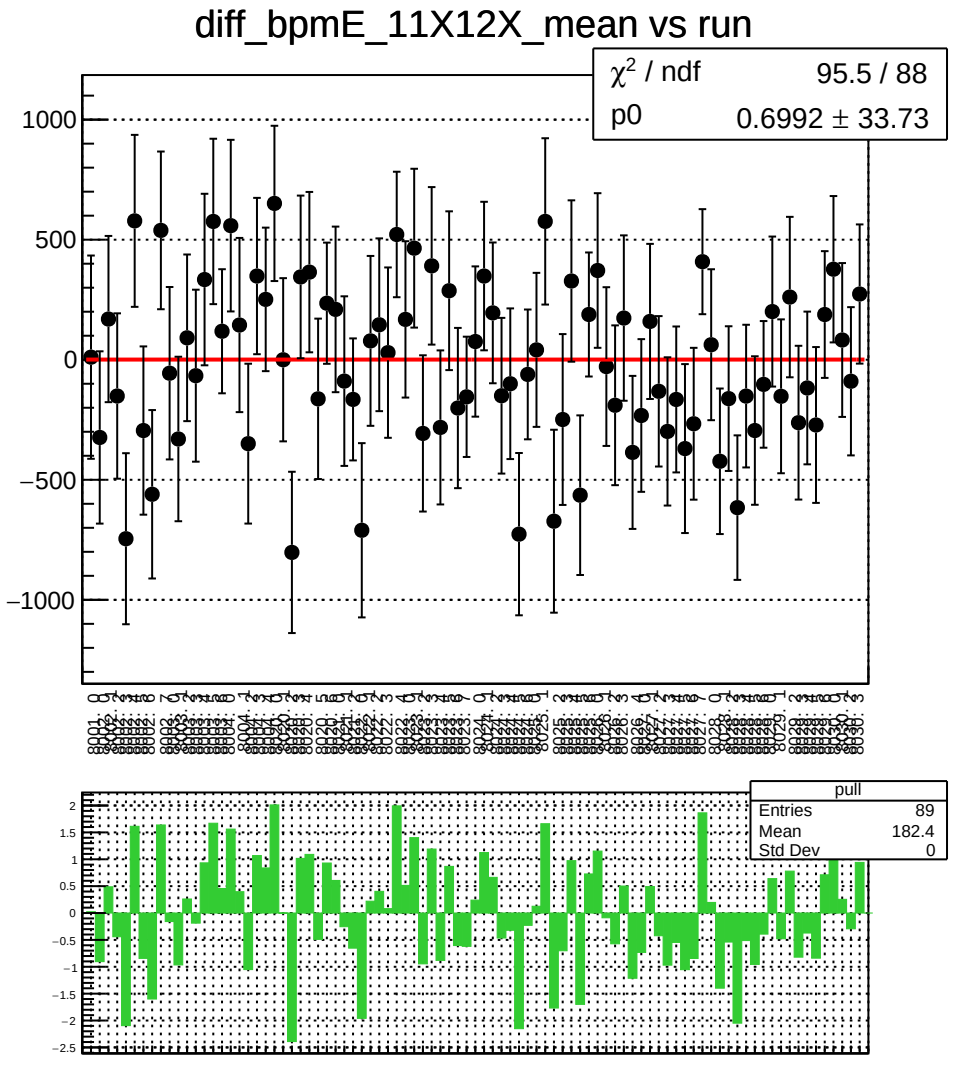

pull1D
Entries 89
Mean −0.02157
Std Dev 1.035

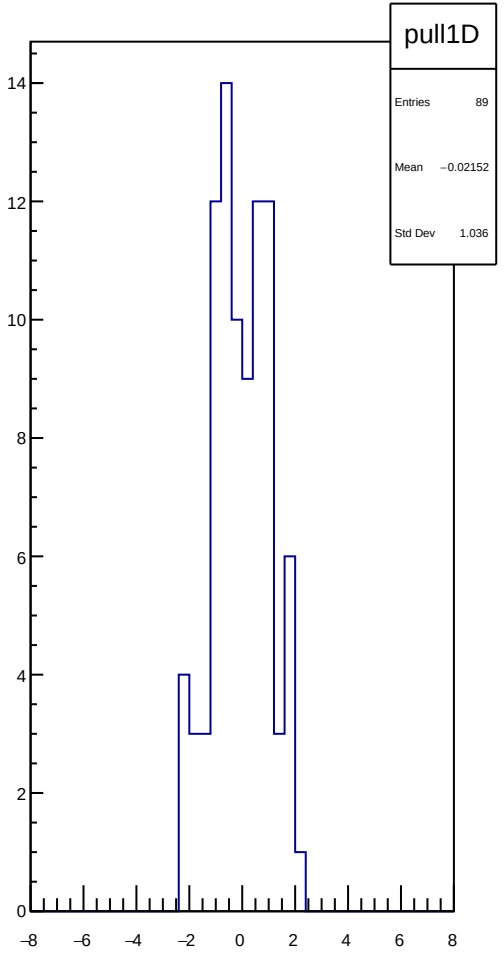

diff_bpmE_rms vs run
χ² / ndf 4984 / 88
p0 3.954e+04 ± 30.06
46000
44000
42000
40000
38000
36000
34000

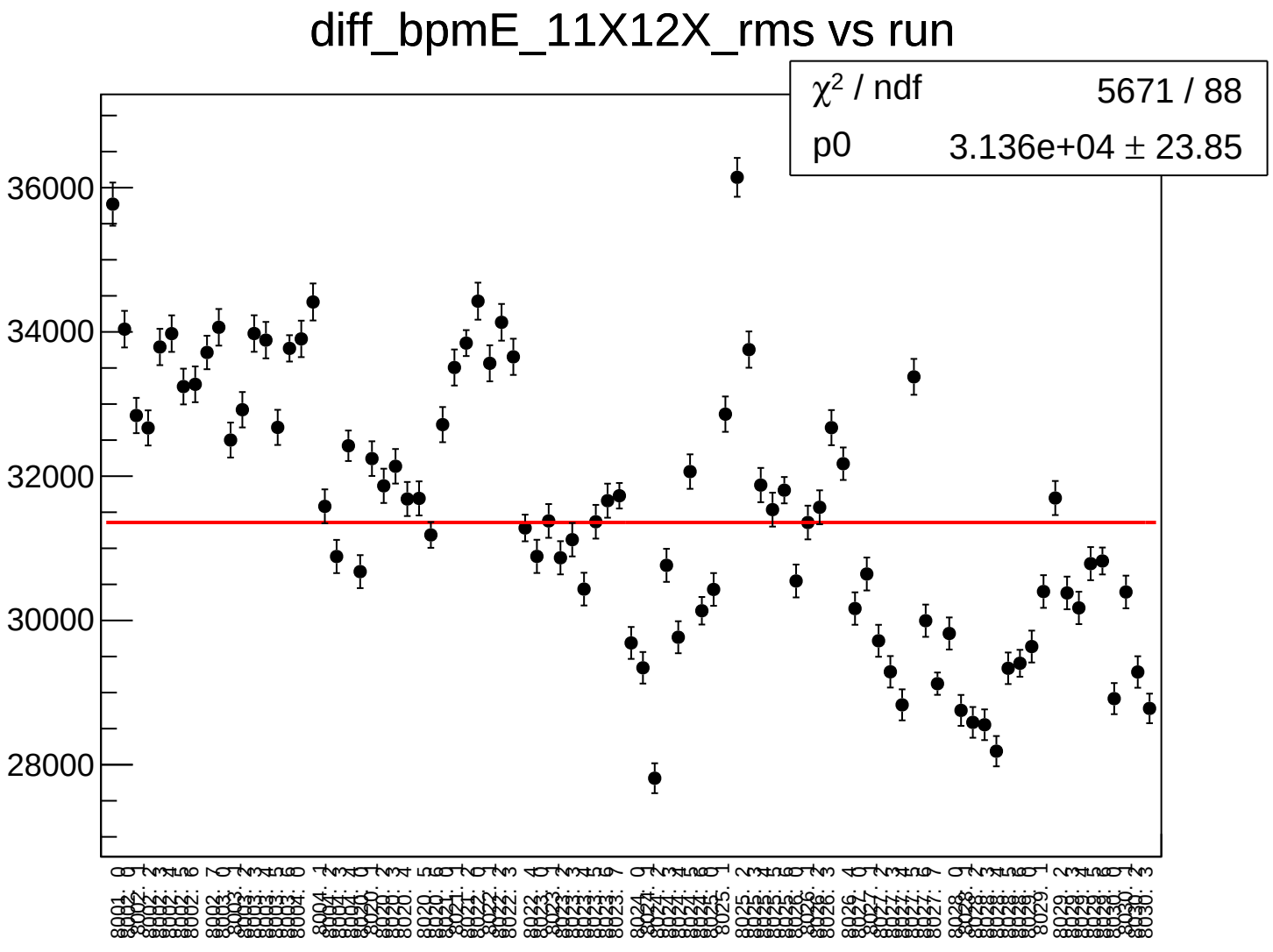

diff_bpmEX_mean vs run
χ^2 / ndf 95.46 / 88
p0 0.3821 ± 42.51
pull
Entries 89
Mean 175.1
Std Dev 0

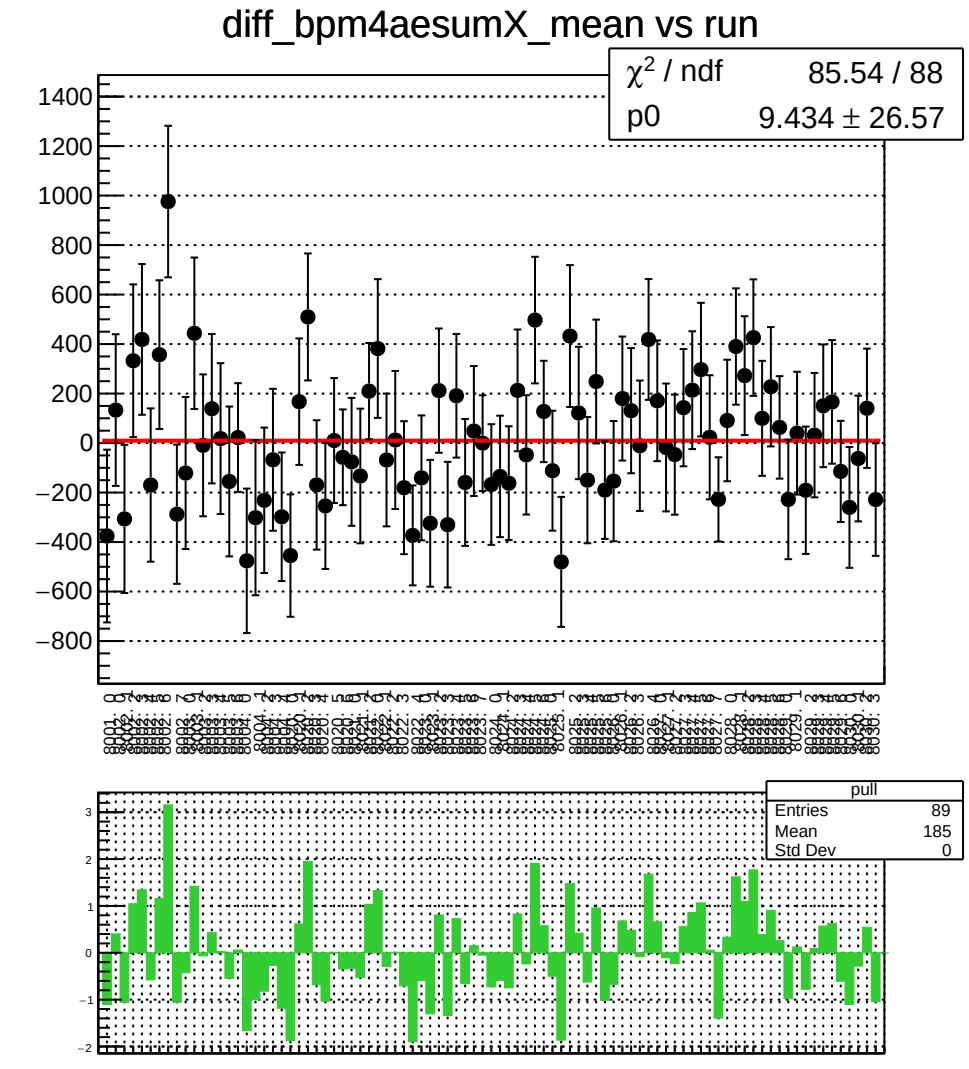

pull1D
Entries 89
Mean −0.02157
Std Dev 1.035

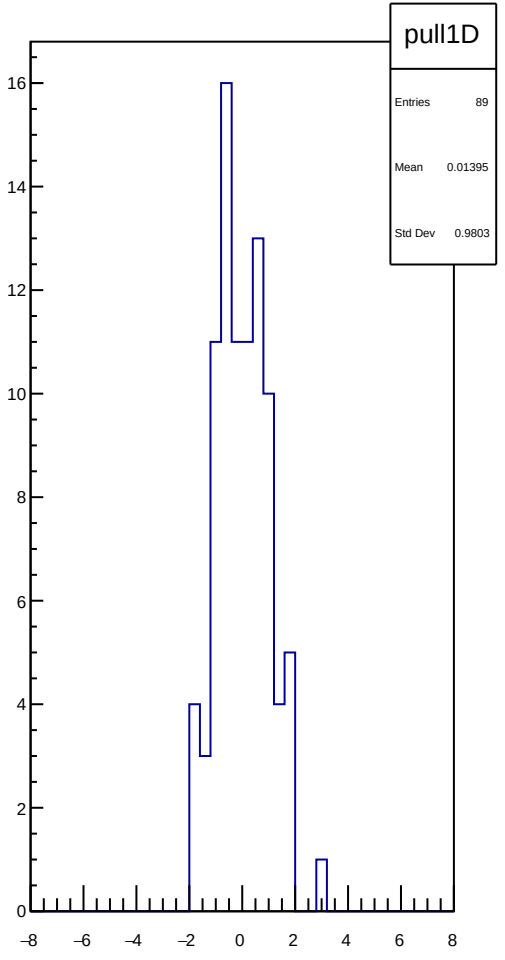

diff_bpmEX_rms vs run
χ² / ndf 4984 / 88
p0 3.954e+04 ± 30.06
46000
44000
42000
40000
38000
36000
34000

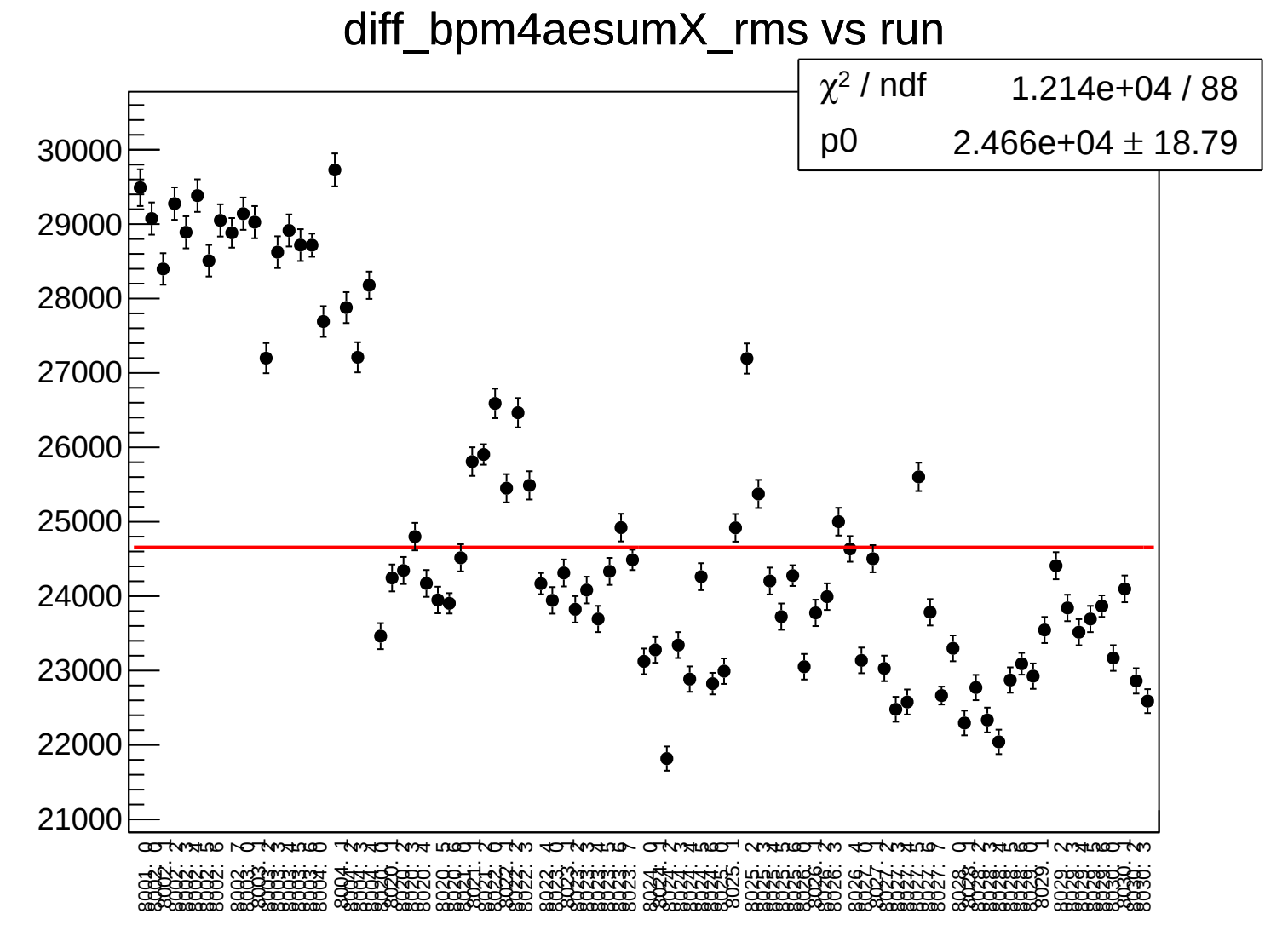

diff_bpmE_11X12X_mean vs run
χ² / ndf 95.5 / 88
p0 0.6992 ± 33.73
1000
500
0
−500
−1000
pull
Entries 89
Mean 182.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

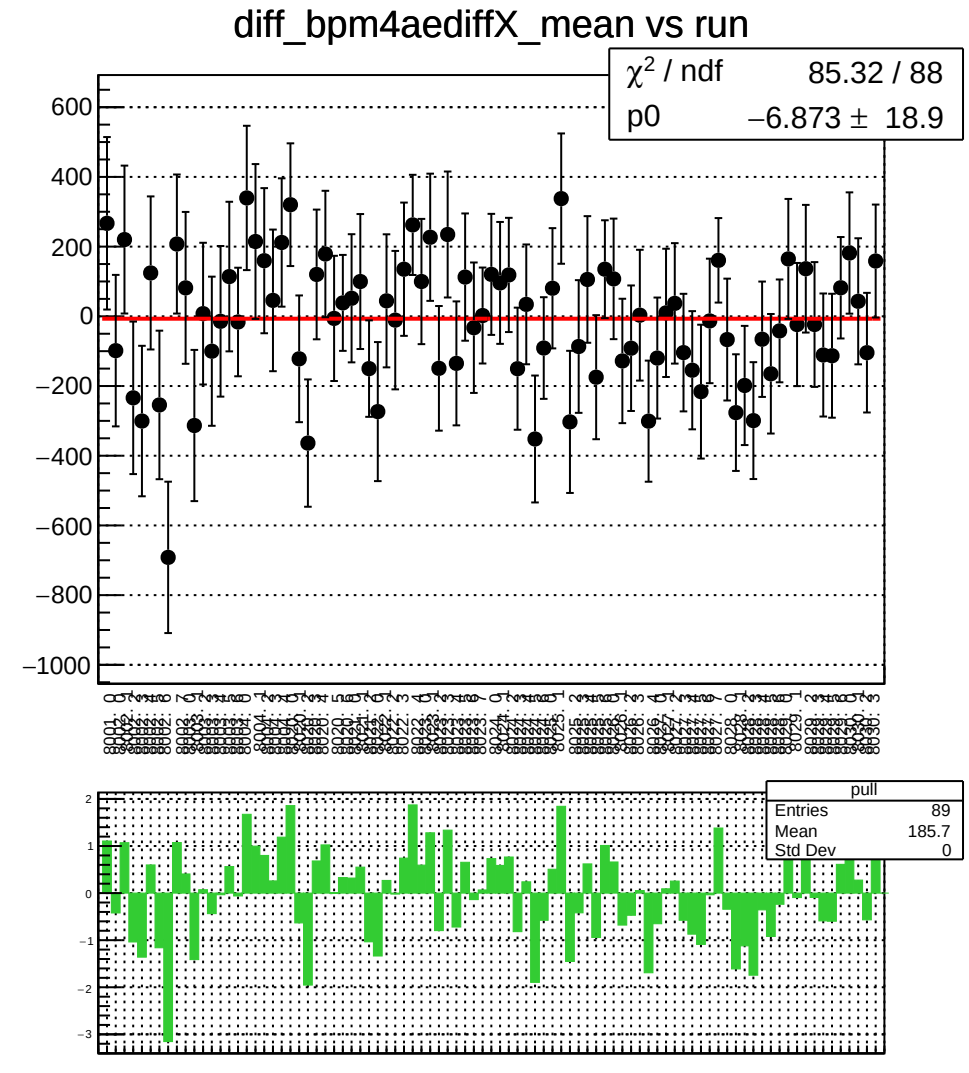

pull1D
Entries 89
Mean −0.02152
Std Dev 1.036
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

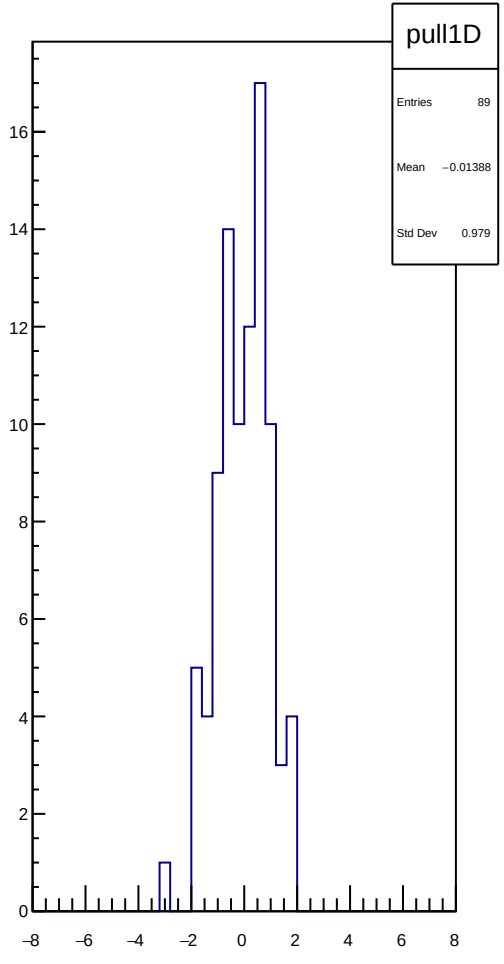

diff_bpmE_11X12X_rms vs run
χ² / ndf 5671 / 88
p0 3.136e+04 ± 23.85
36000
34000
32000
30000
28000

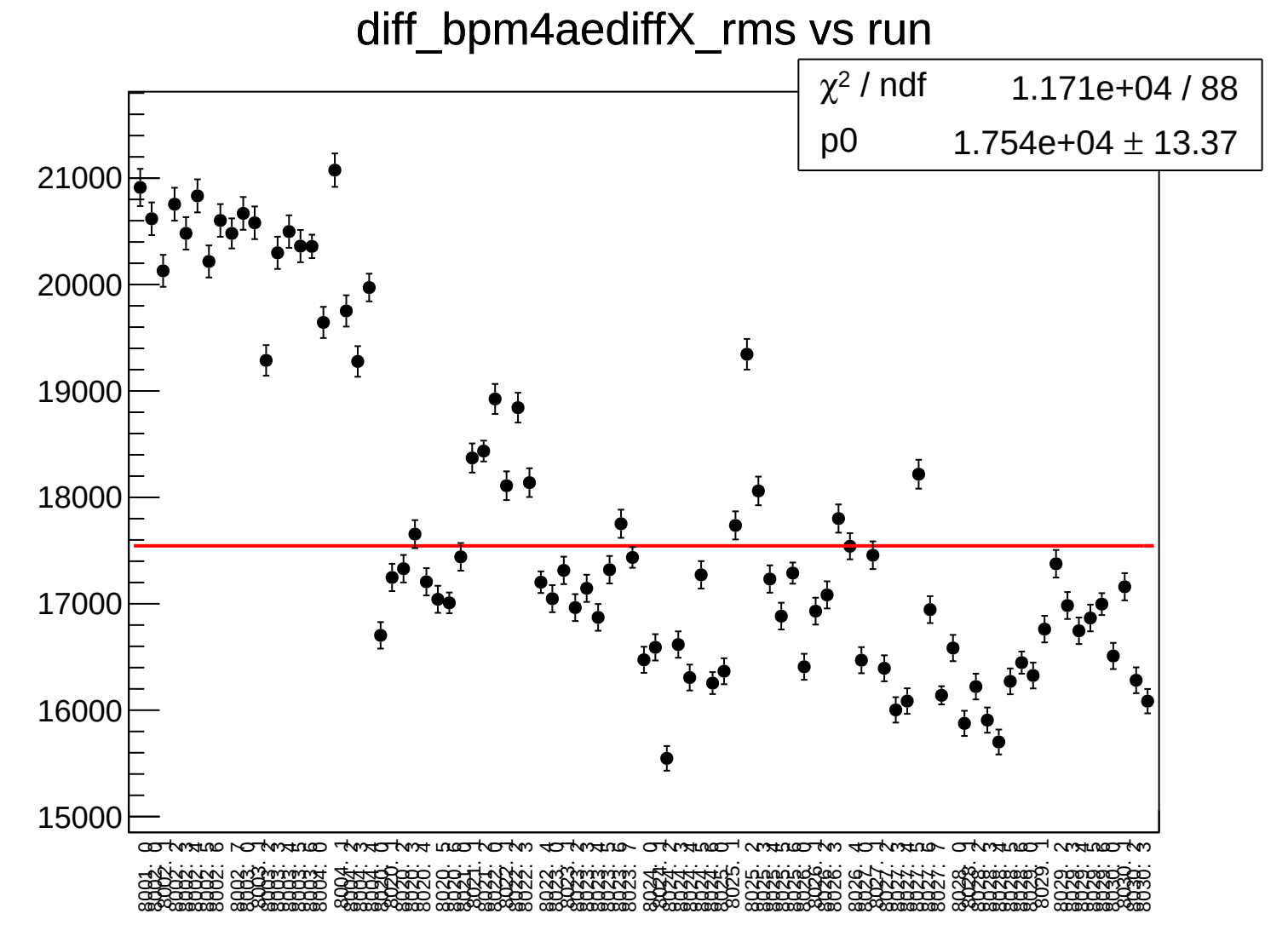

diff_bpm4aesumX_mean vs run
χ² / ndf 85.54 / 88
p0 9.434 ± 26.57
pull
Entries 89
Mean 185
Std Dev 0

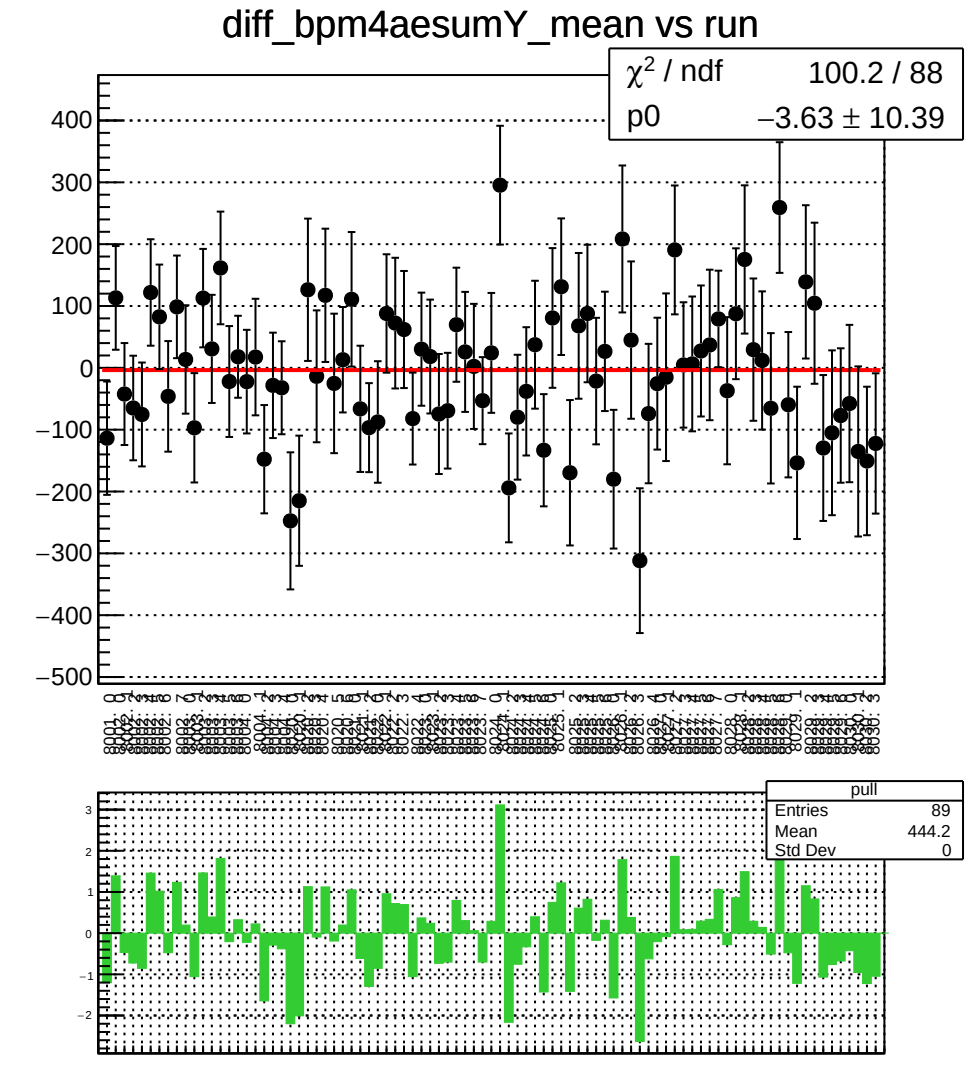

pull1D
Entries 89
Mean 0.01395
Std Dev 0.9803

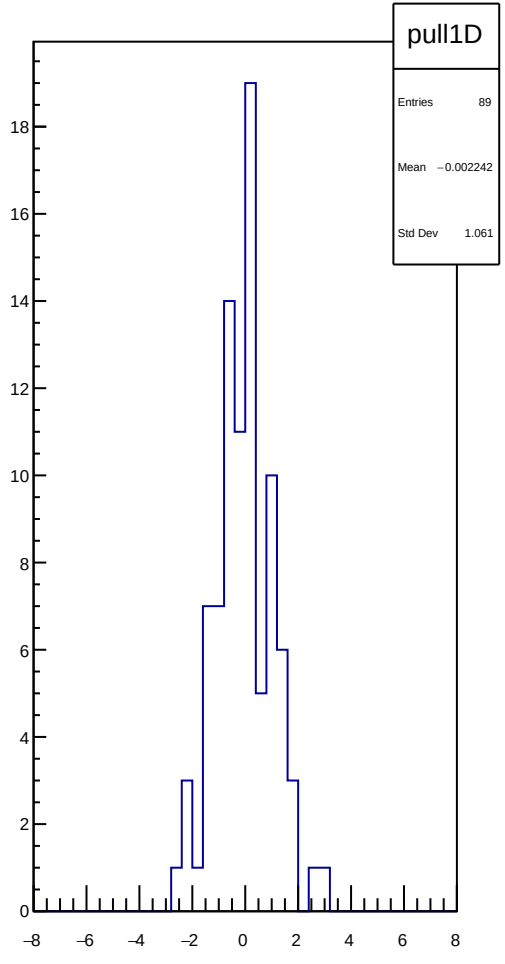

diff_bpm4aesumX_rms vs run
χ² / ndf 1.214e+04 / 88
p0 2.466e+04 ± 18.79
30000
29000
28000
27000
26000
25000
24000
23000
22000
21000

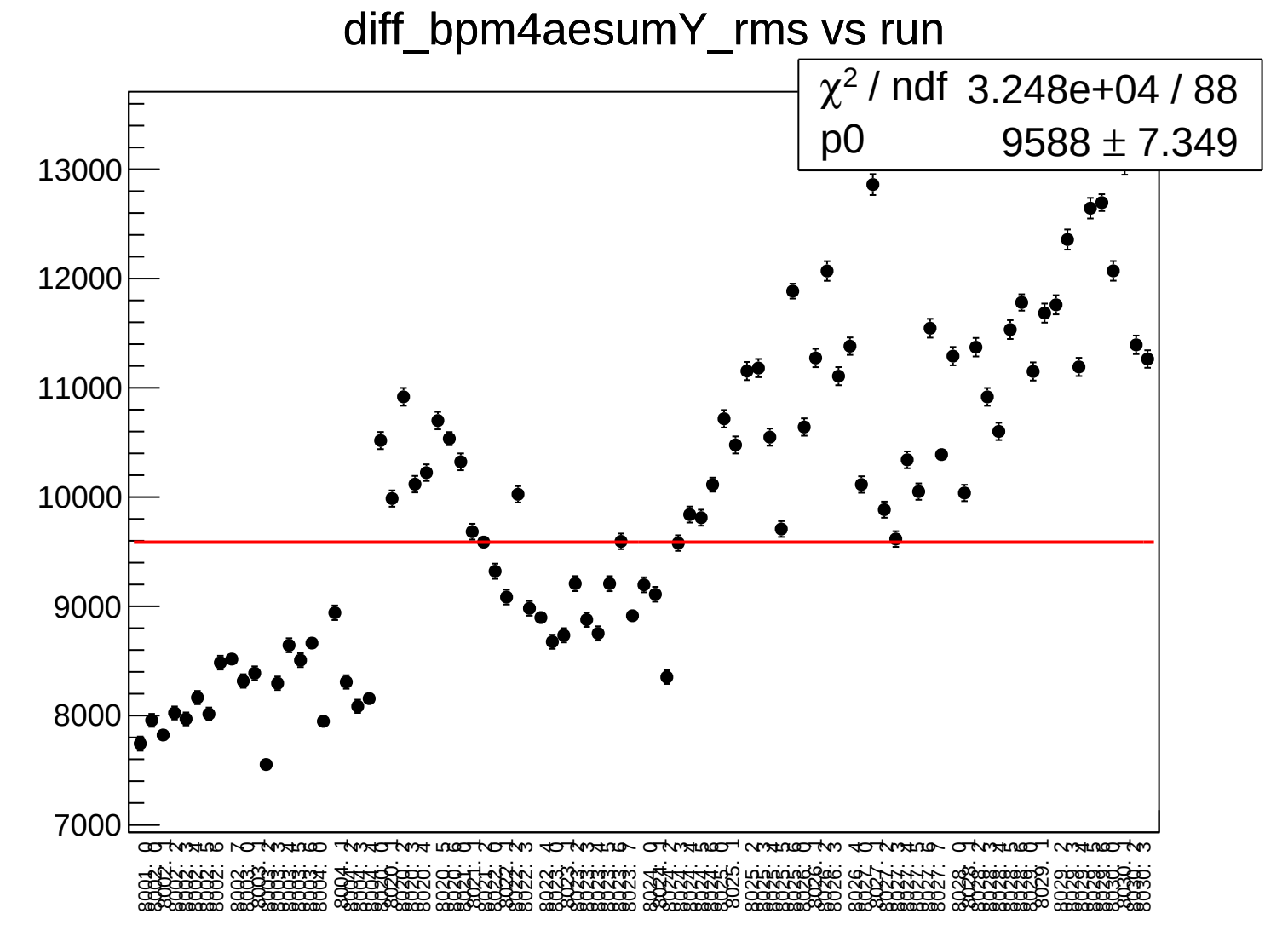

diff_bpm4aediffX_mean vs run
χ² / ndf 85.32 / 88
p0 −6.873 ± 18.9
pull
Entries 89
Mean 185.7
Std Dev 0

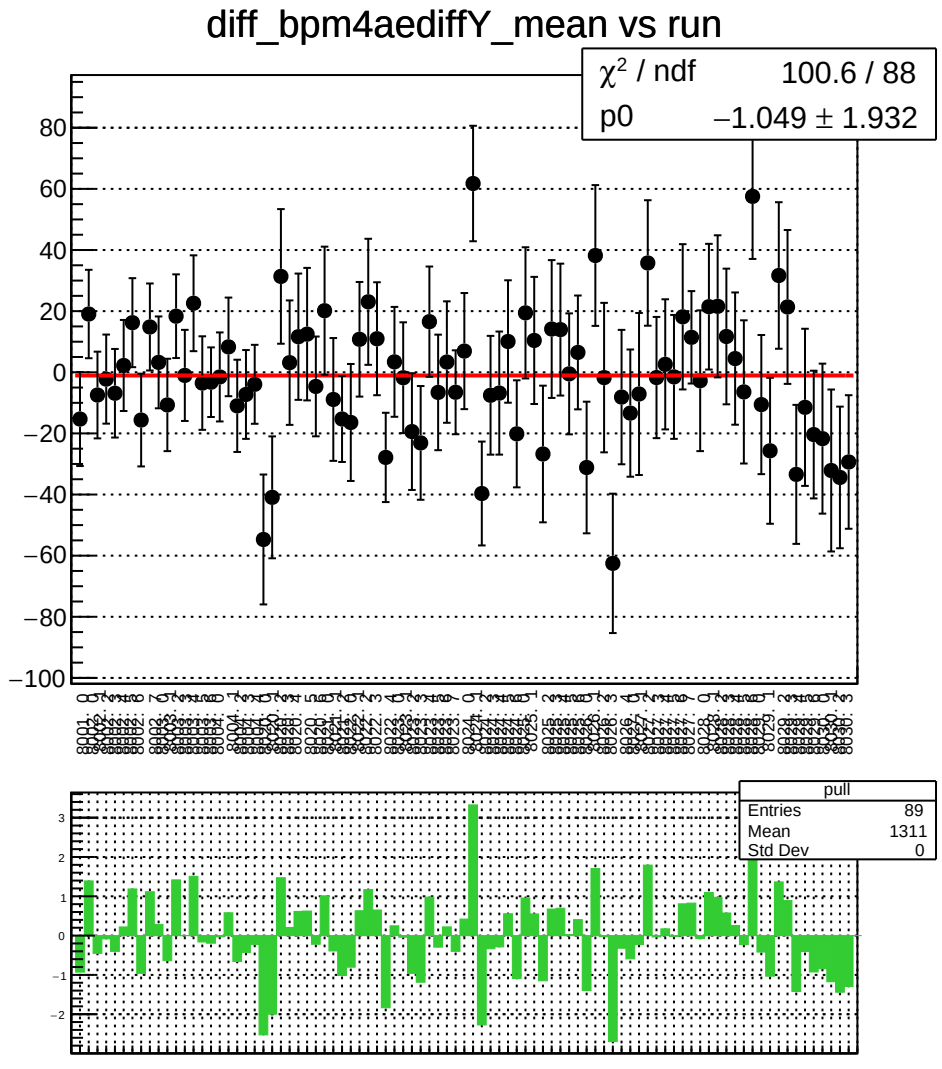

pull1D
Entries 89
Mean −0.01388
Std Dev 0.979

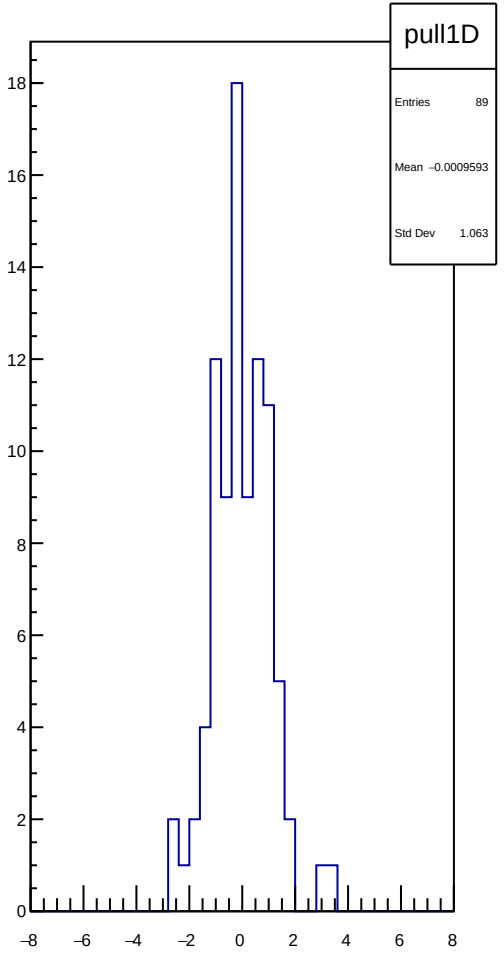

diff_bpm4aediffX_rms vs run
χ² / ndf 1.171e+04 / 88
p0 1.754e+04 ± 13.37
21000
20000
19000
18000
17000
16000
15000

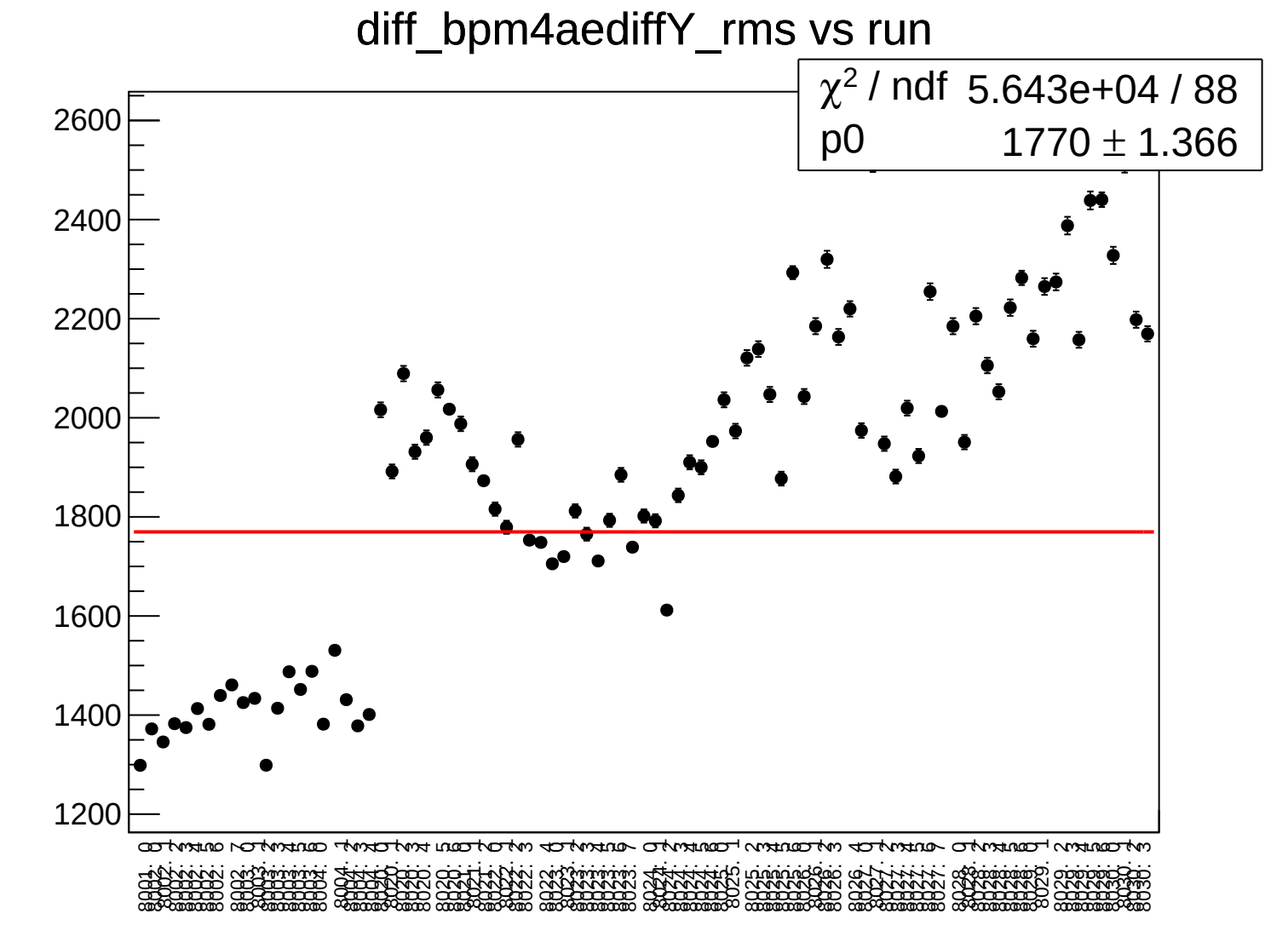

diff_bpm4aesumY_mean vs run
χ² / ndf 100.2 / 88
p0 −3.63 ± 10.39
pull
Entries 89
Mean 444.2
Std Dev 0

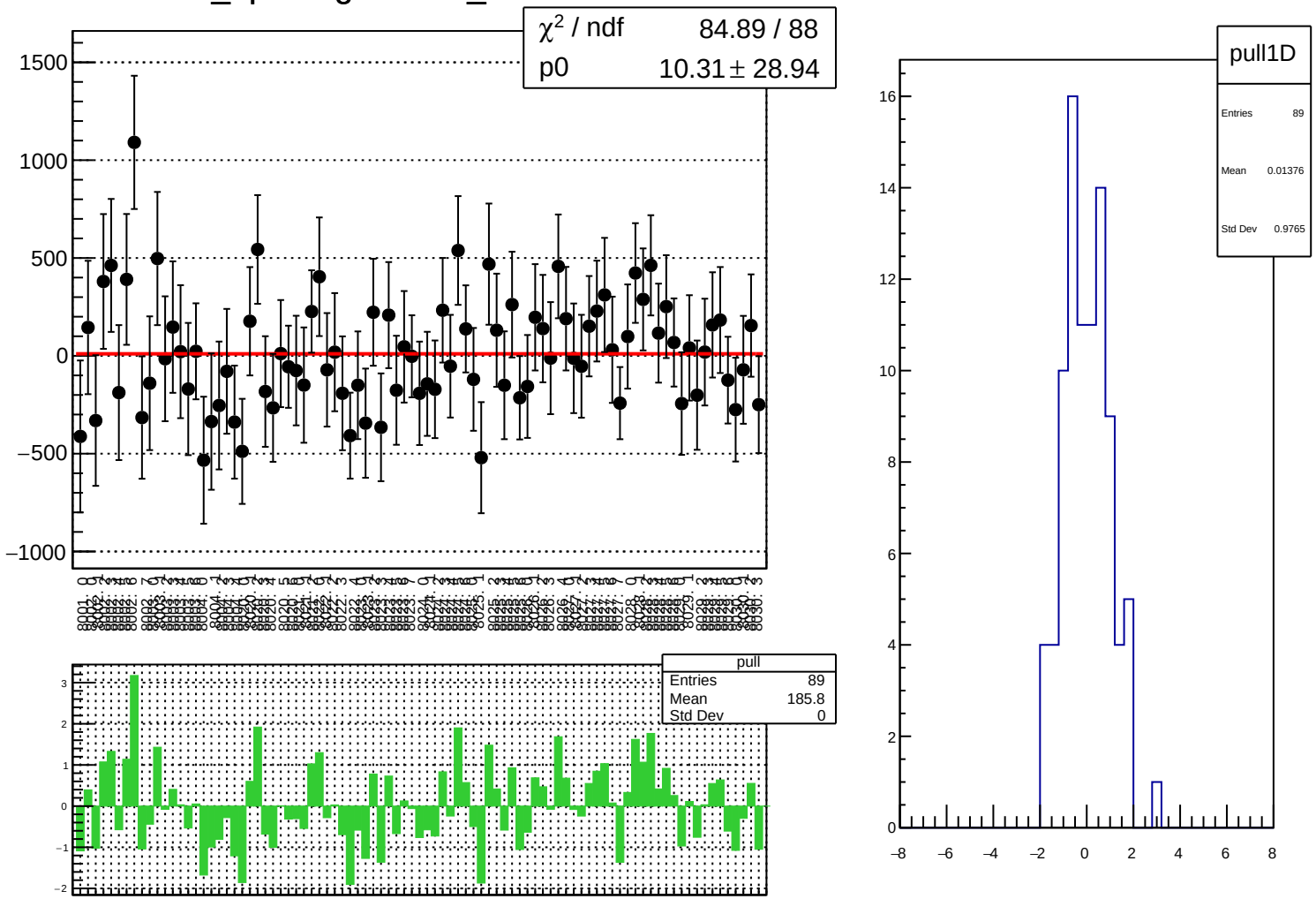

pull1D
Entries 89
Mean −0.002242
Std Dev 1.061


diff_bpm4aesumY_rms vs run
χ² / ndf 3.248e+04 / 88
p0 9588 ± 7.349
13000
12000
11000
10000
9000
8000
7000

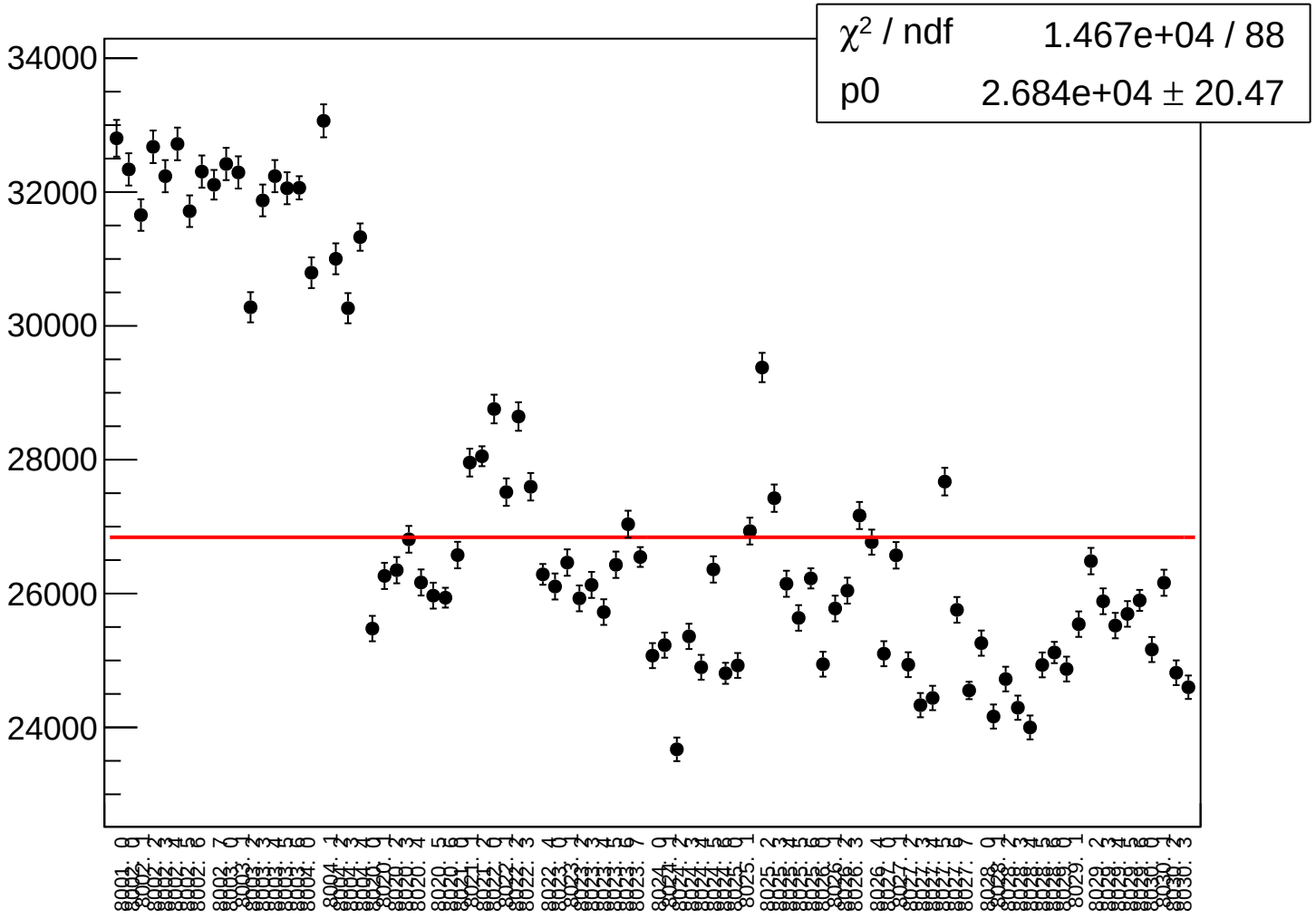

diff_bpm4aediffY_mean vs run
χ² / ndf 100.6 / 88
p0 −1.049 ± 1.932
pull
Entries 89
Mean 1311
Std Dev 0

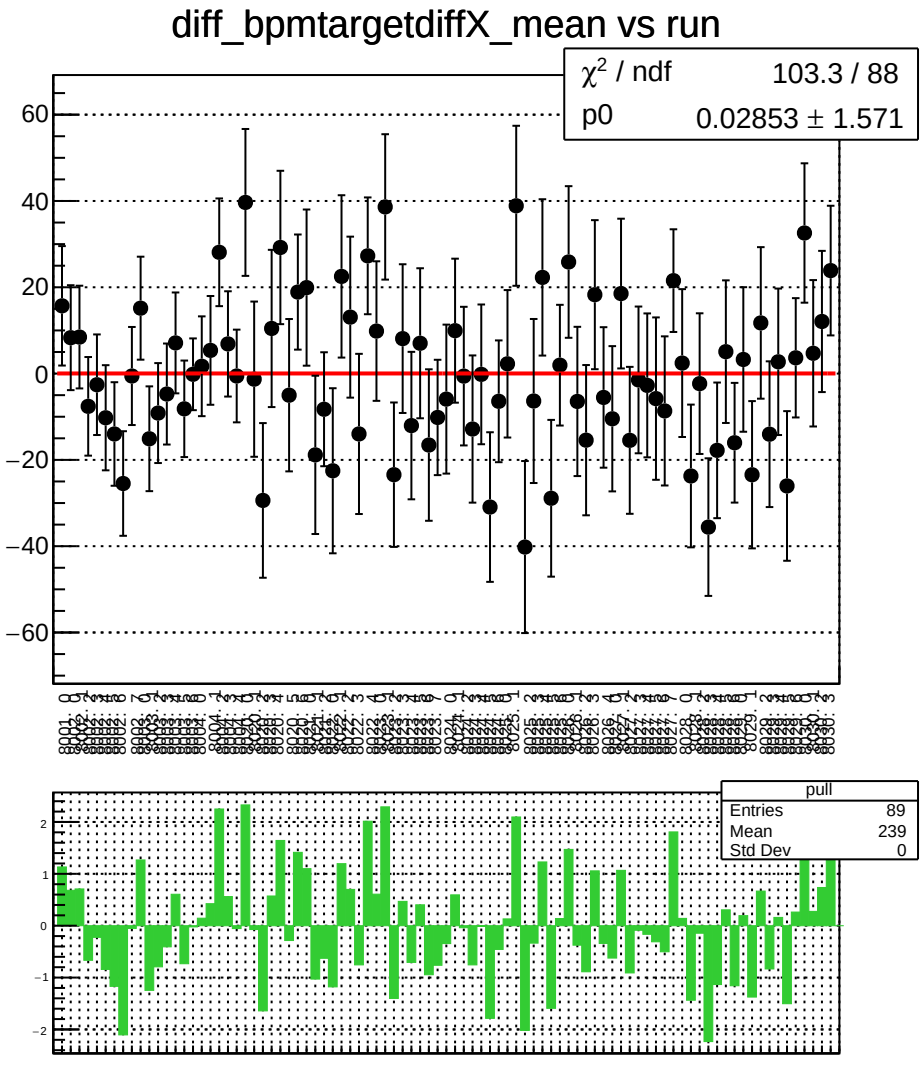

pull1D
Entries 89
Mean −0.0009593
Std Dev 1.063

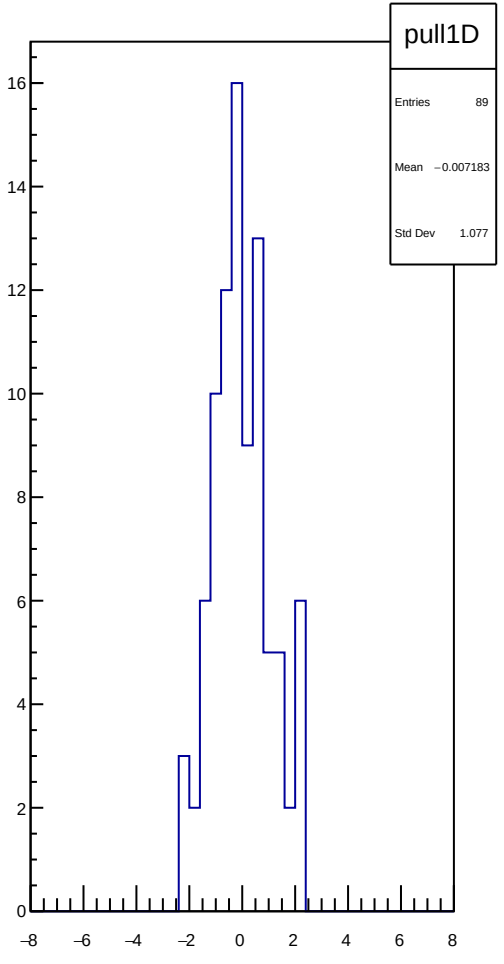

diff_bpm4aediffY_rms vs run
χ² / ndf 5.643e+04 / 88
p0 1770 ± 1.366
2600
2400
2200
2000
1800
1600
1400
1200

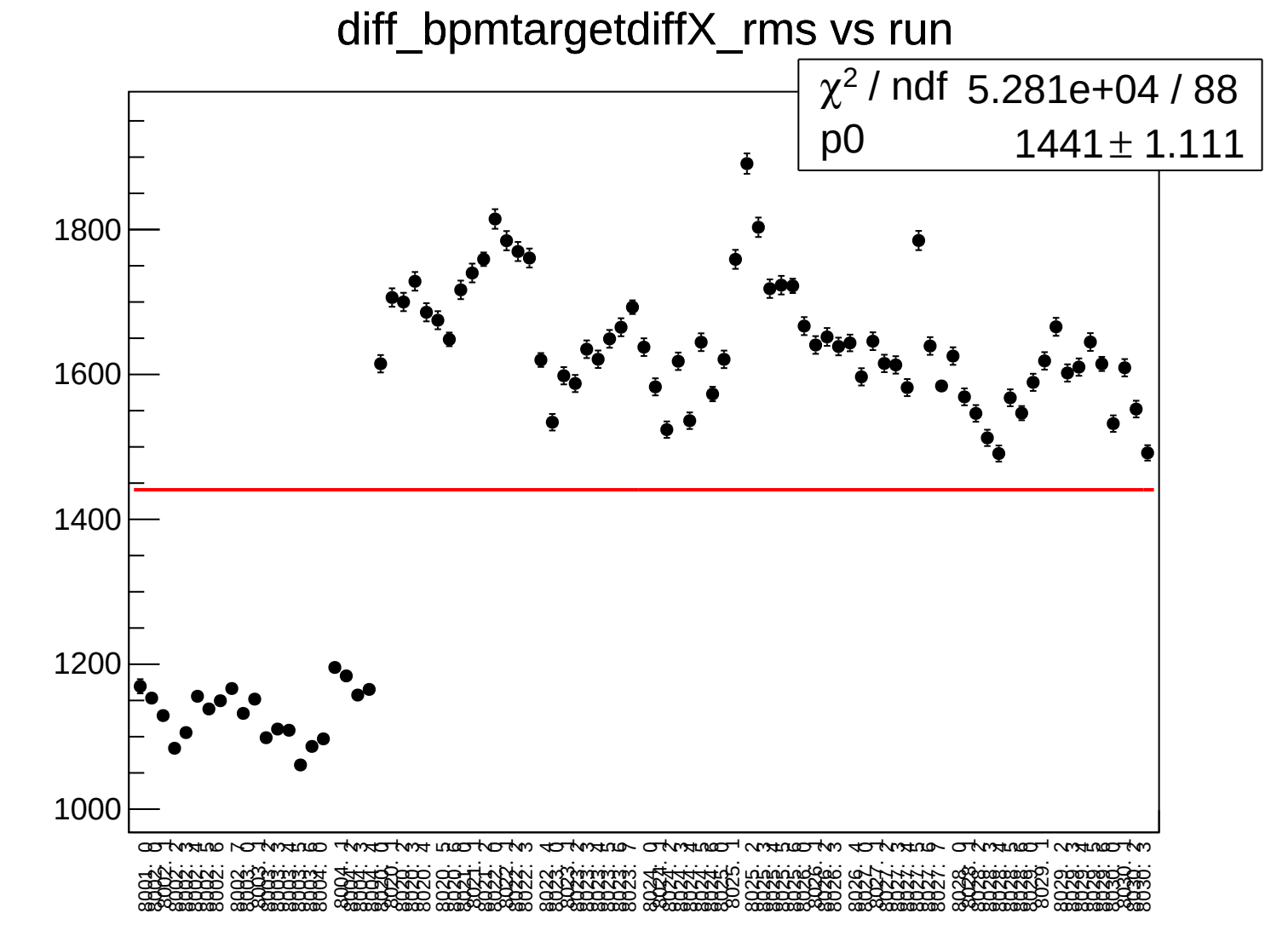

diff_bpmtargetsumX_mean vs run
χ² / ndf 84.89 / 88
p0 10.31 ± 28.94
pull
Entries 89
Mean 185.8
Std Dev 0
pull1D
Entries 89
Mean 0.01376
Std Dev 0.9765

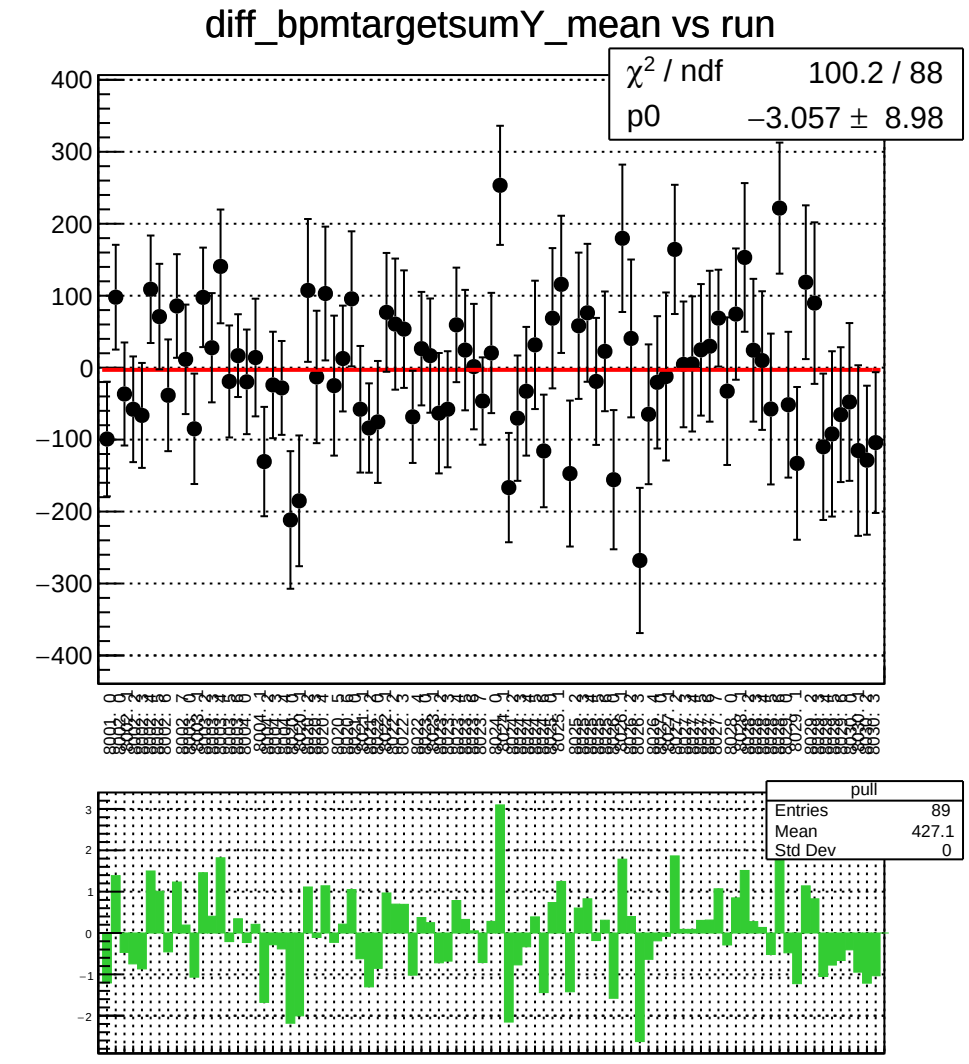
diff_bpmtargetsumX_rms vs run

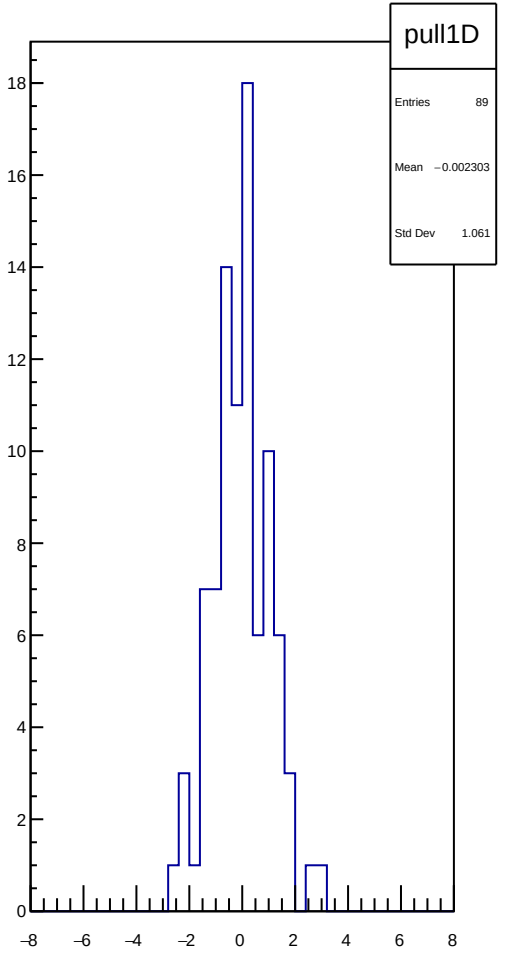


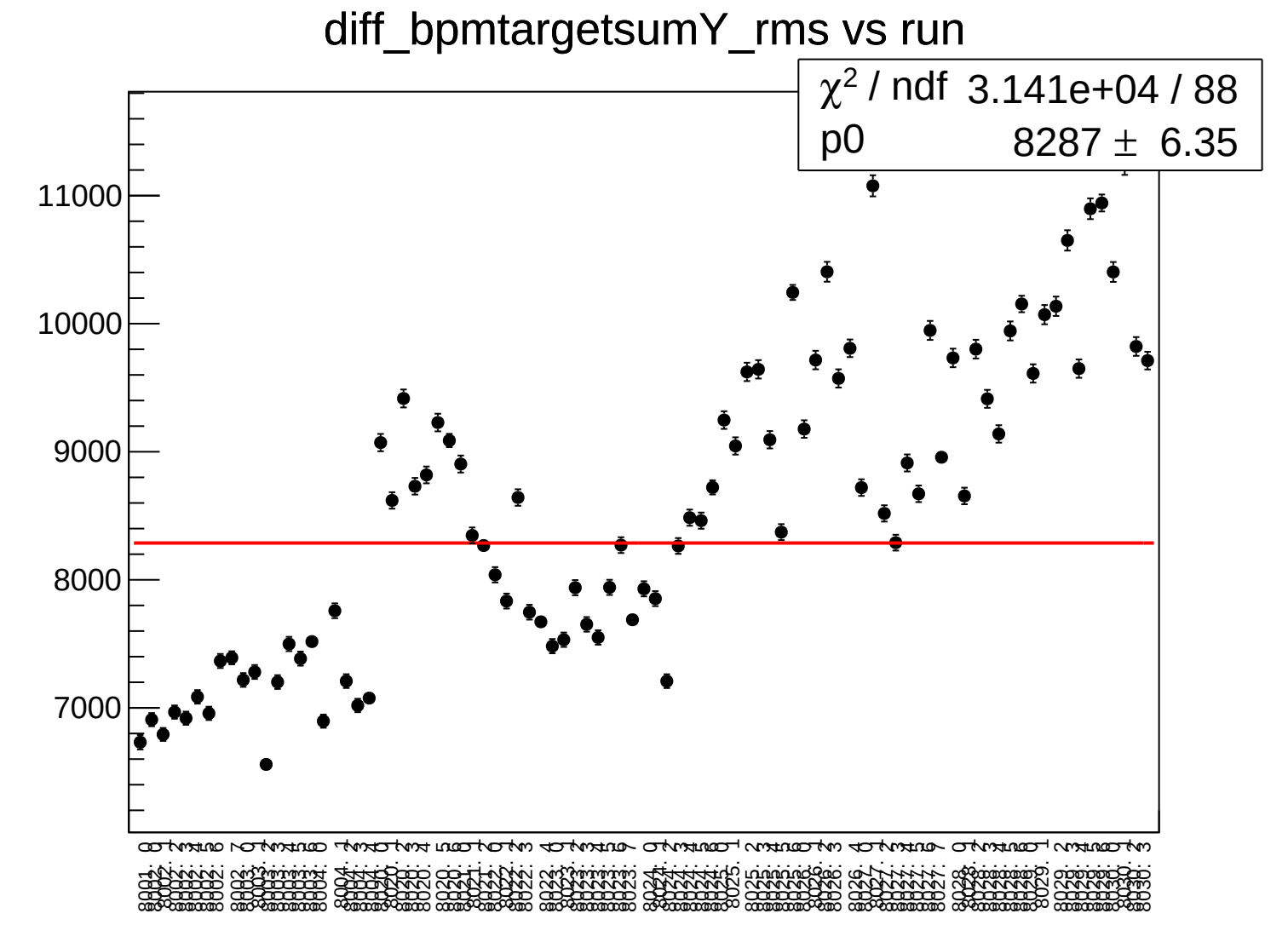

diff_bpmtargetdiffX_mean vs run
χ² / ndf 103.3 / 88
p0 0.02853 ± 1.571
pull
Entries 89
Mean 239
Std Dev 0

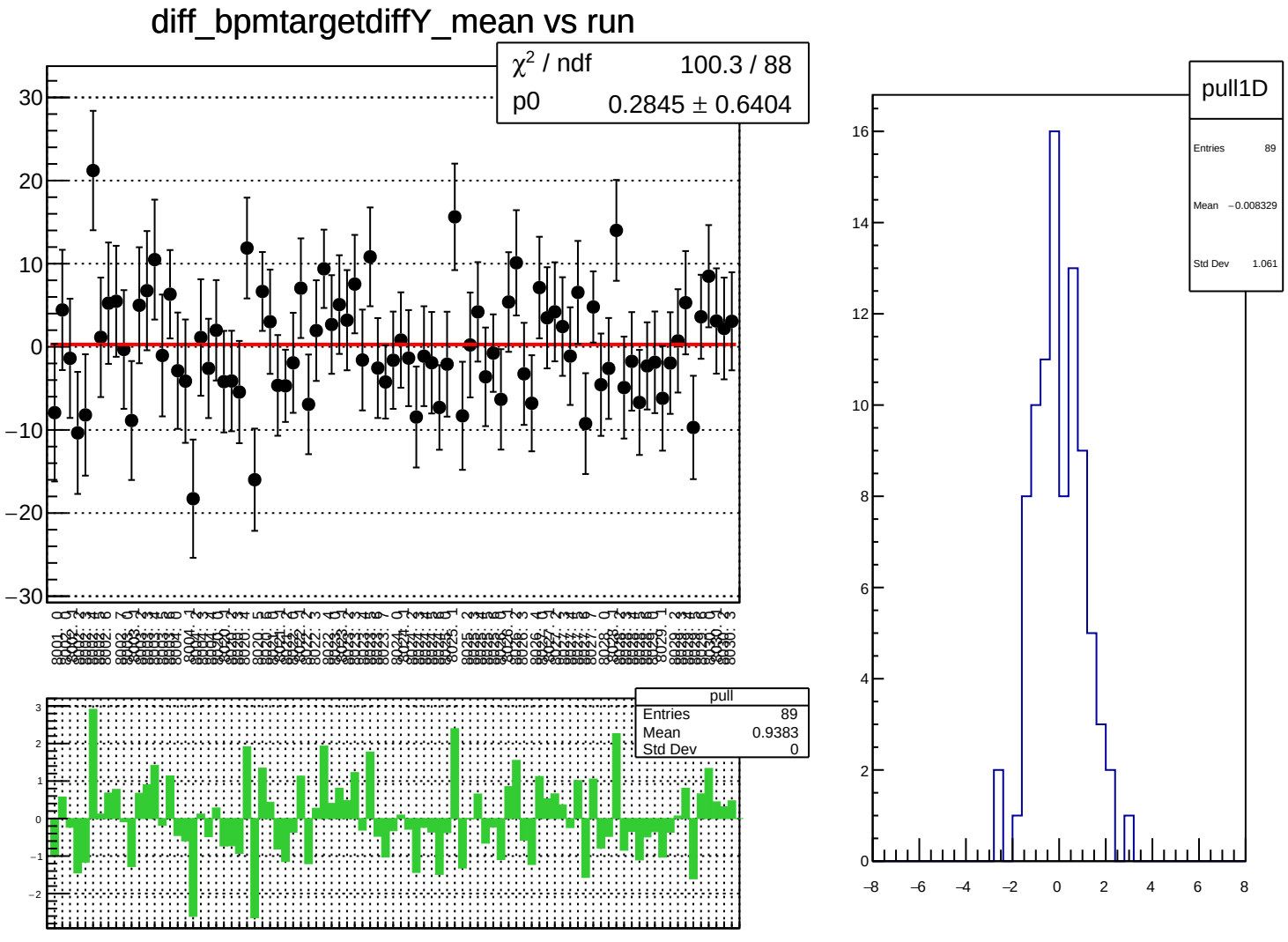

pull1D
Entries 89
Mean −0.007183
Std Dev 1.077

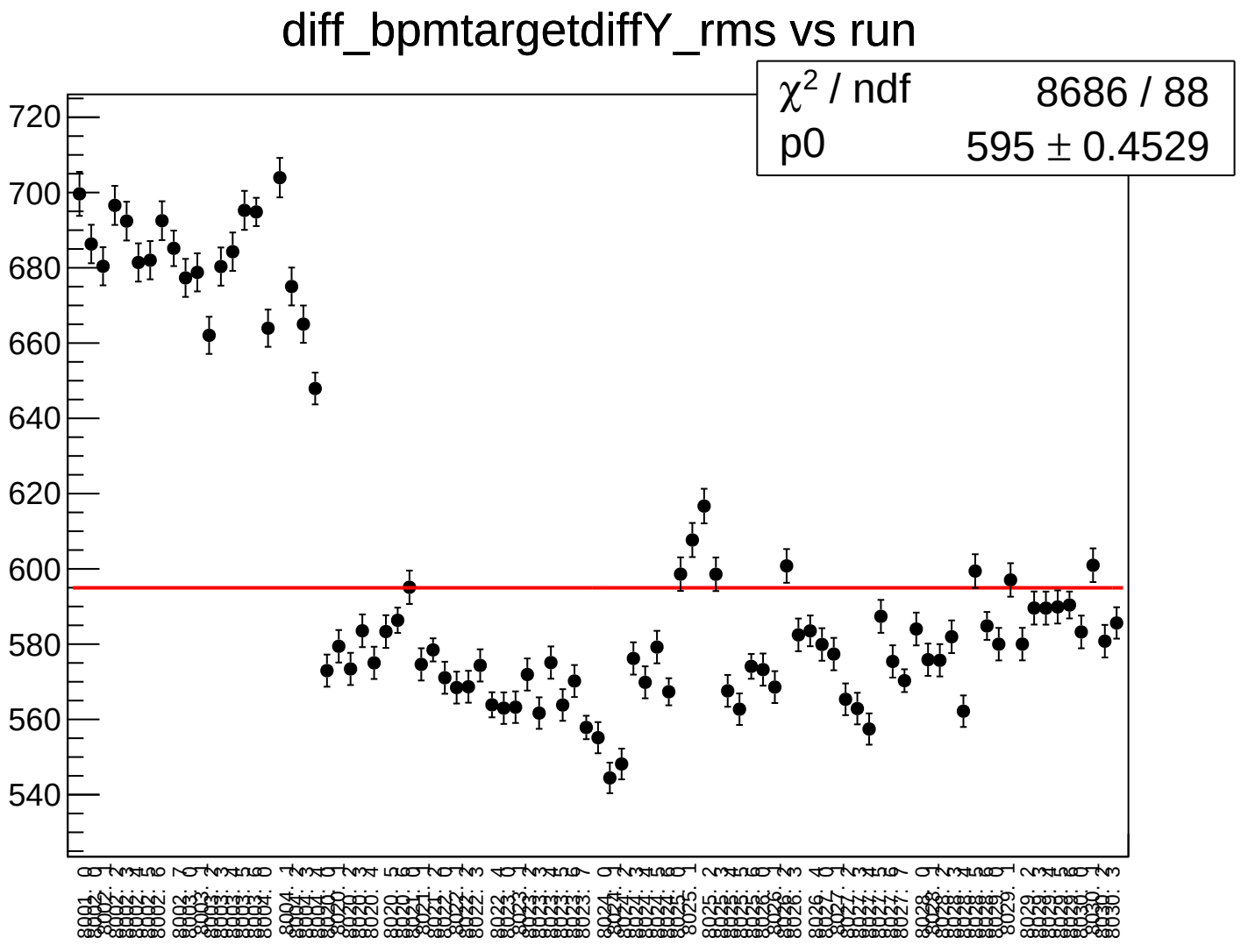

diff_bpmtargetdiffX_rms vs run
χ² / ndf 5.281e+04 / 88
p0 1441 ± 1.111
1800
1600
1400
1200
1000

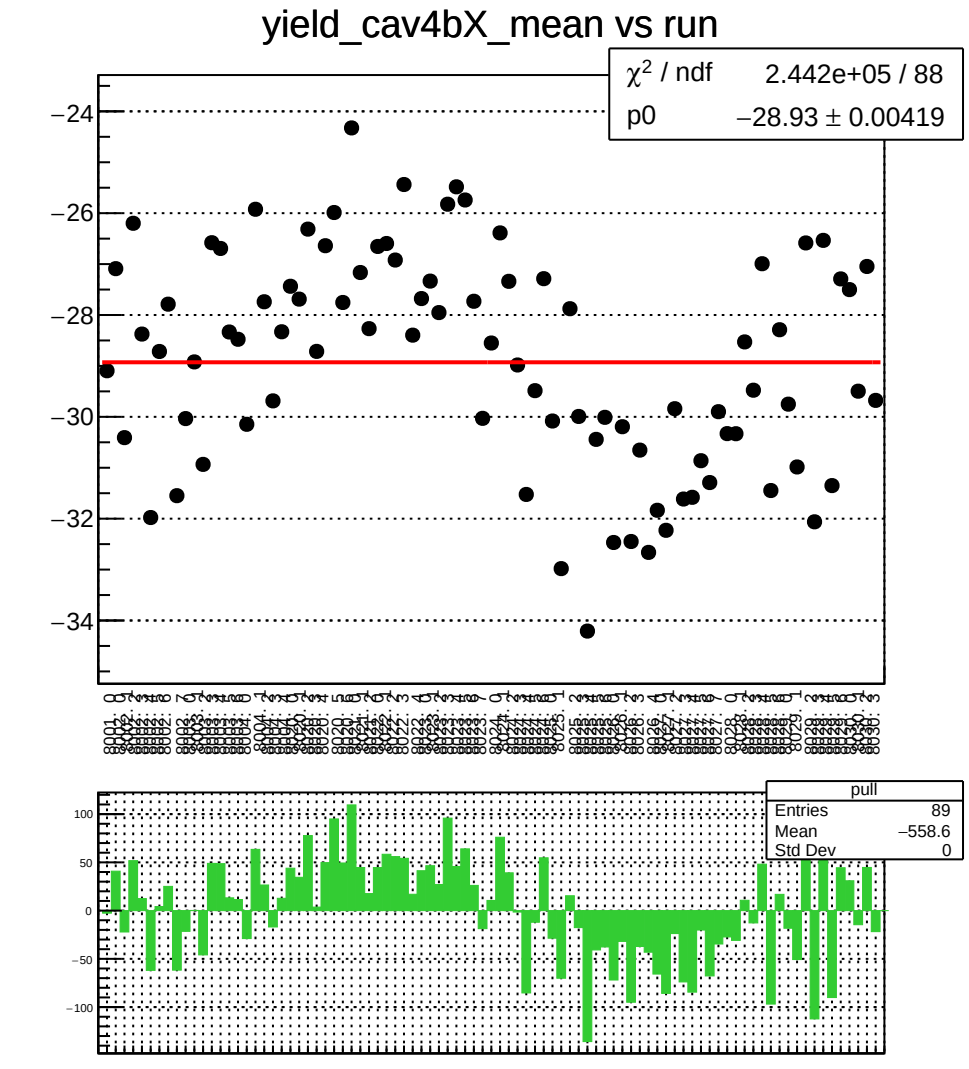

diff_bpmtargetsumY_mean vs run
χ² / ndf 100.2 / 88
p0 −3.057 ± 8.98
pull
Entries 89
Mean 427.1
Std Dev 0

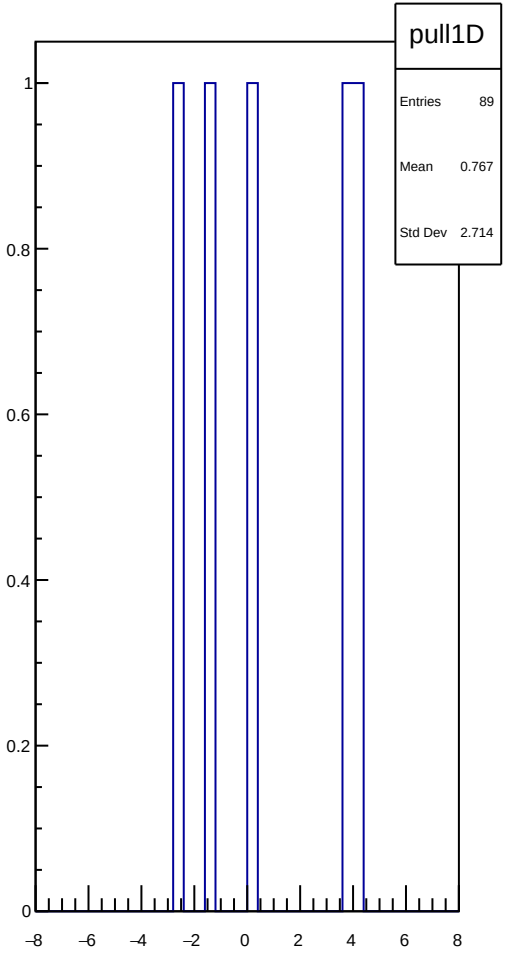

pull1D
Entries 89
Mean −0.002303
Std Dev 1.061

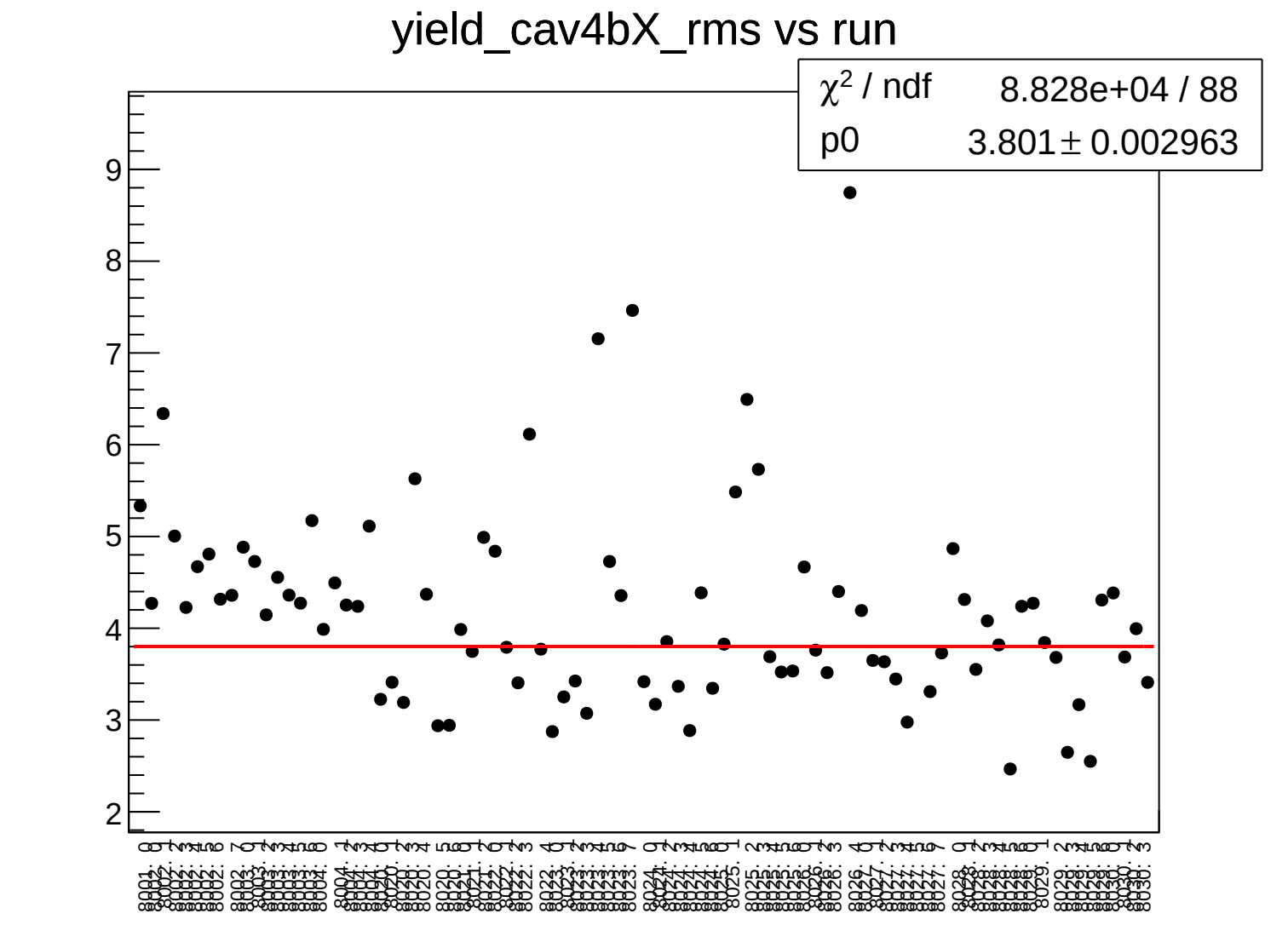

diff_bpmtargetsumY_rms vs run
χ² / ndf 3.141e+04 / 88
p0 8287 ± 6.35
11000
10000
9000
8000
7000

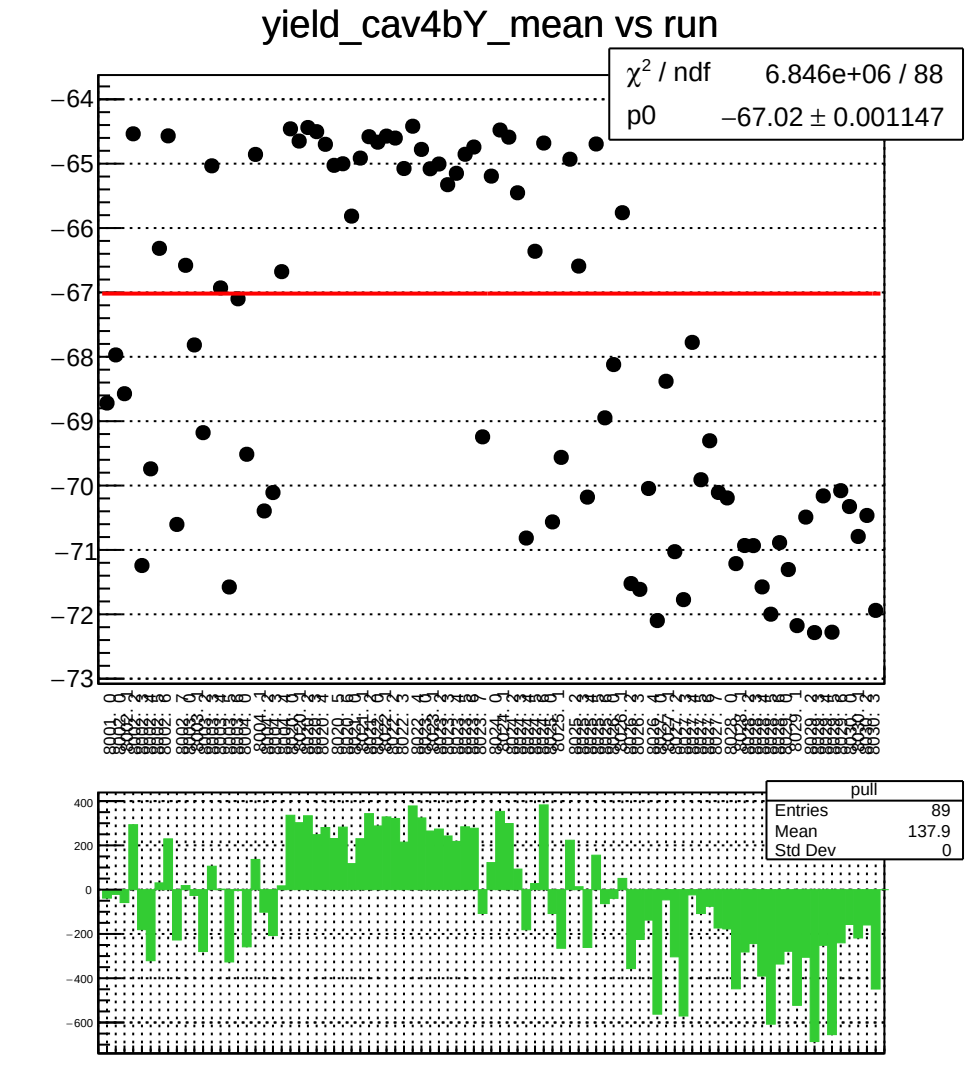

diff_bpmtargetdiffY_mean vs run
χ² / ndf 100.3 / 88
p0 0.2845 ± 0.6404
pull
Entries 89
Mean 0.9383
Std Dev 0
pull1D
Entries 89
Mean −0.008329
Std Dev 1.061

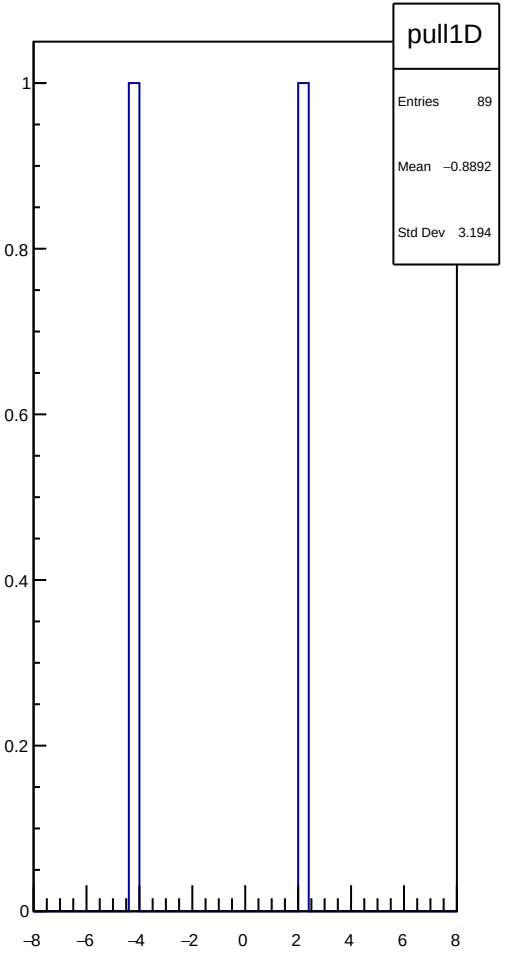

diff_bpmtargetdiffY_rms vs run
χ² / ndf 8686 / 88
p0 595 ± 0.4529
720
700
680
660
640
620
600
580
560
540

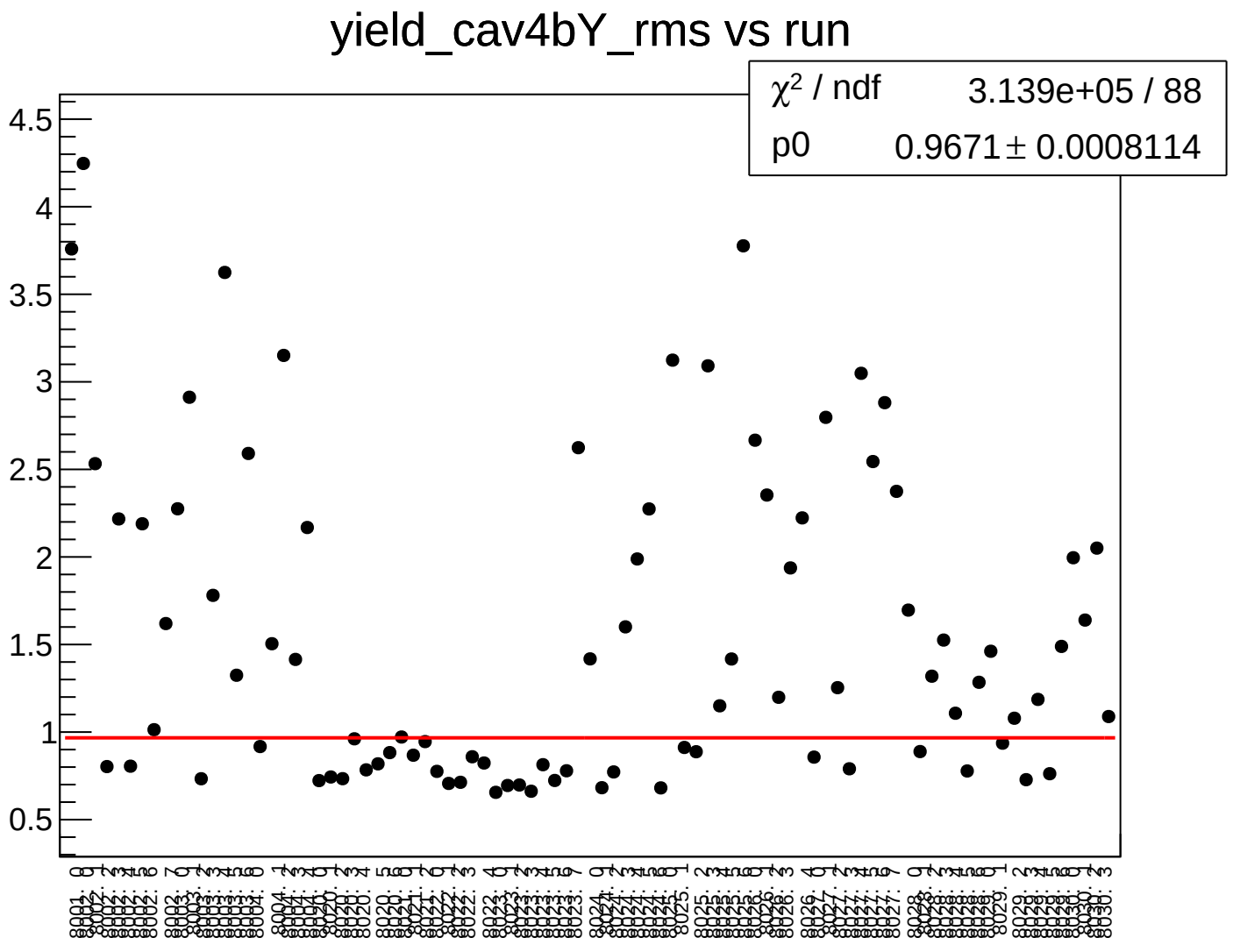

yield_cav4bX_mean vs run
χ² / ndf 2.442e+05 / 88
p0 −28.93 ± 0.00419
−24
−26
−28
−30
−32
−34
pull
Entries 89
Mean −558.6
Std Dev 0
100
50
0
−50
−100

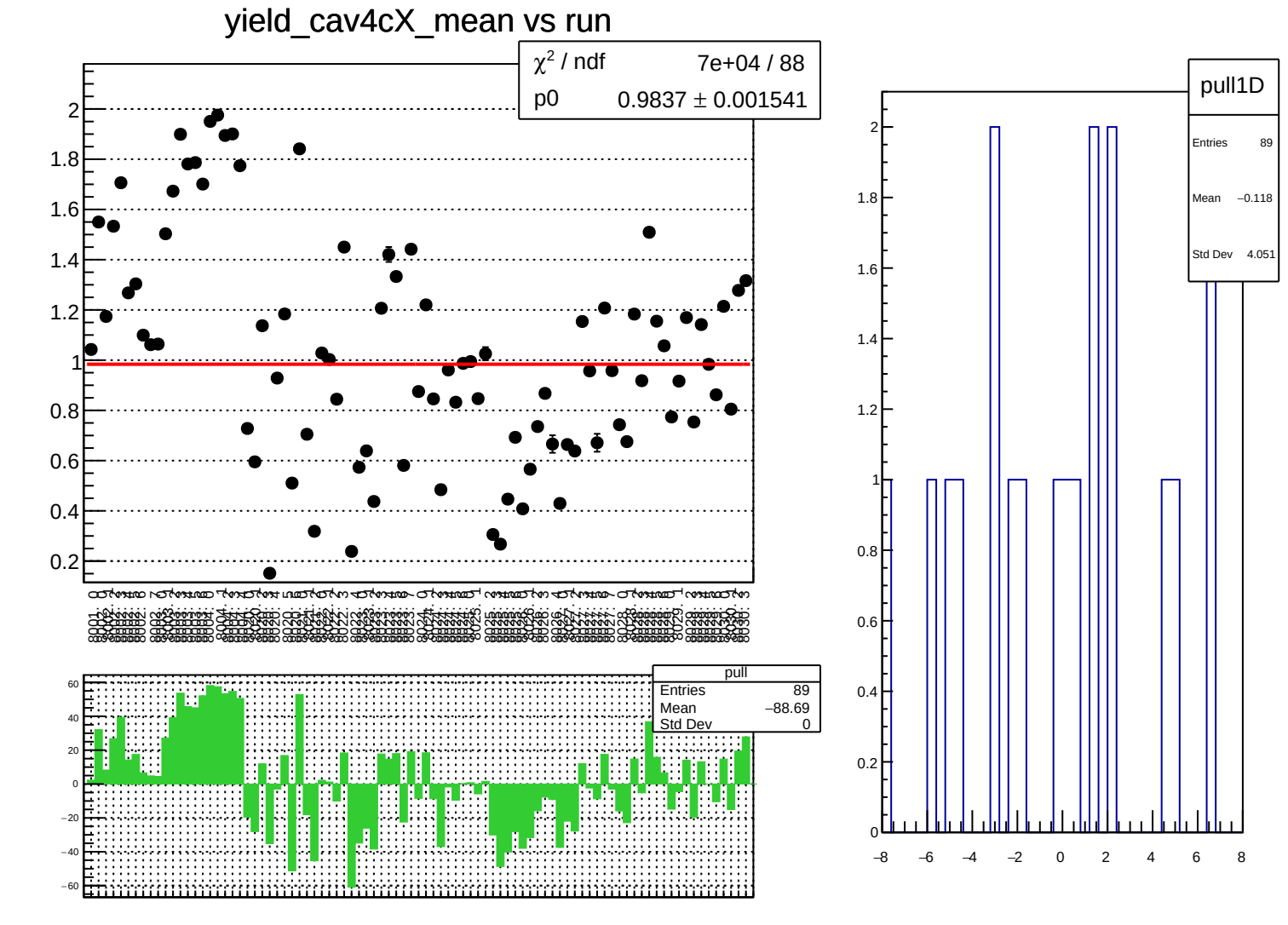

pull1D
Entries 89
Mean 0.767
Std Dev 2.714
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

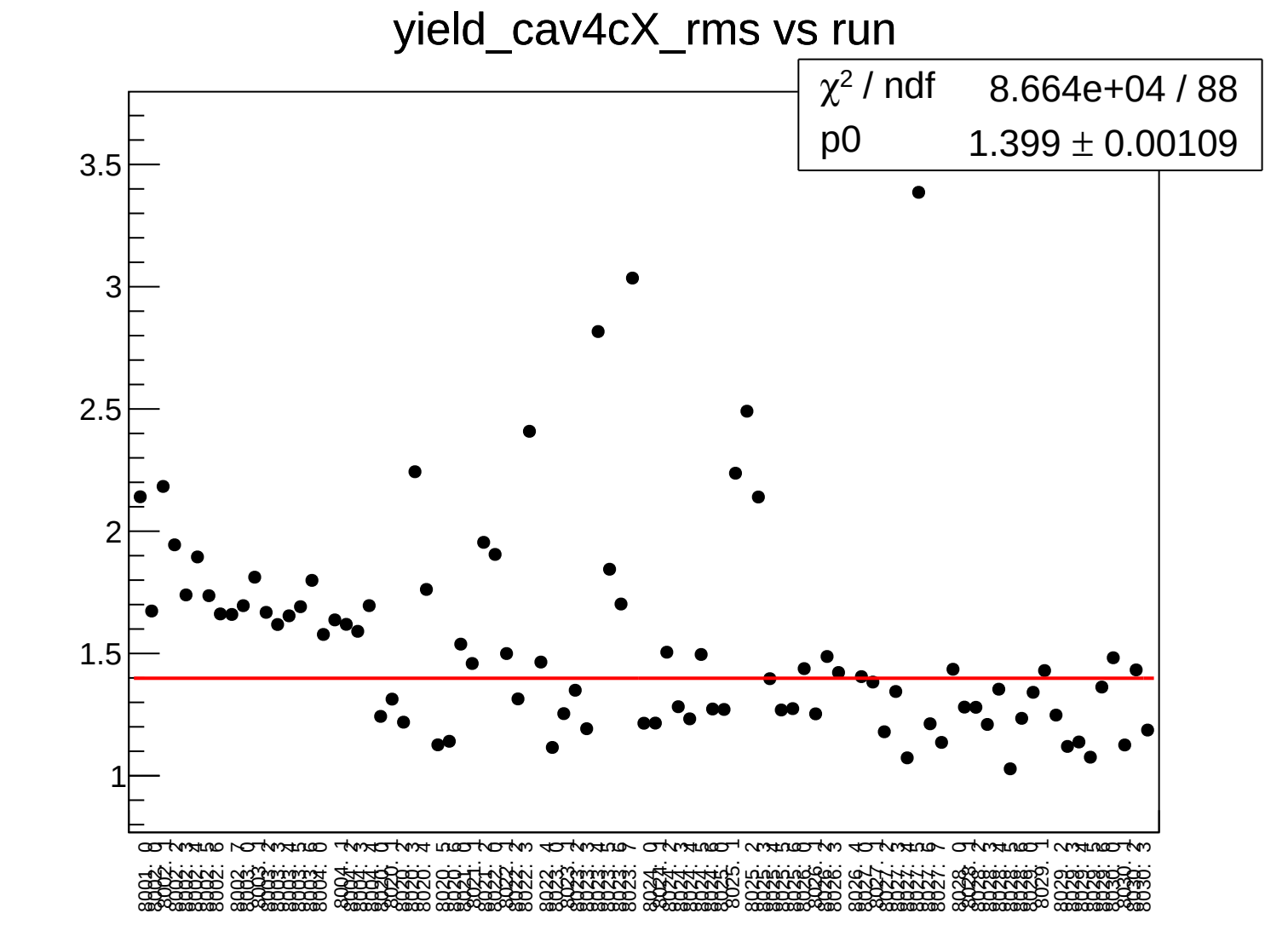

yield_cav4bX_rms vs run
χ^2 / ndf 8.828e+04 / 88
p0 3.801 ± 0.002963
9
8
7
6
5
4
3
2

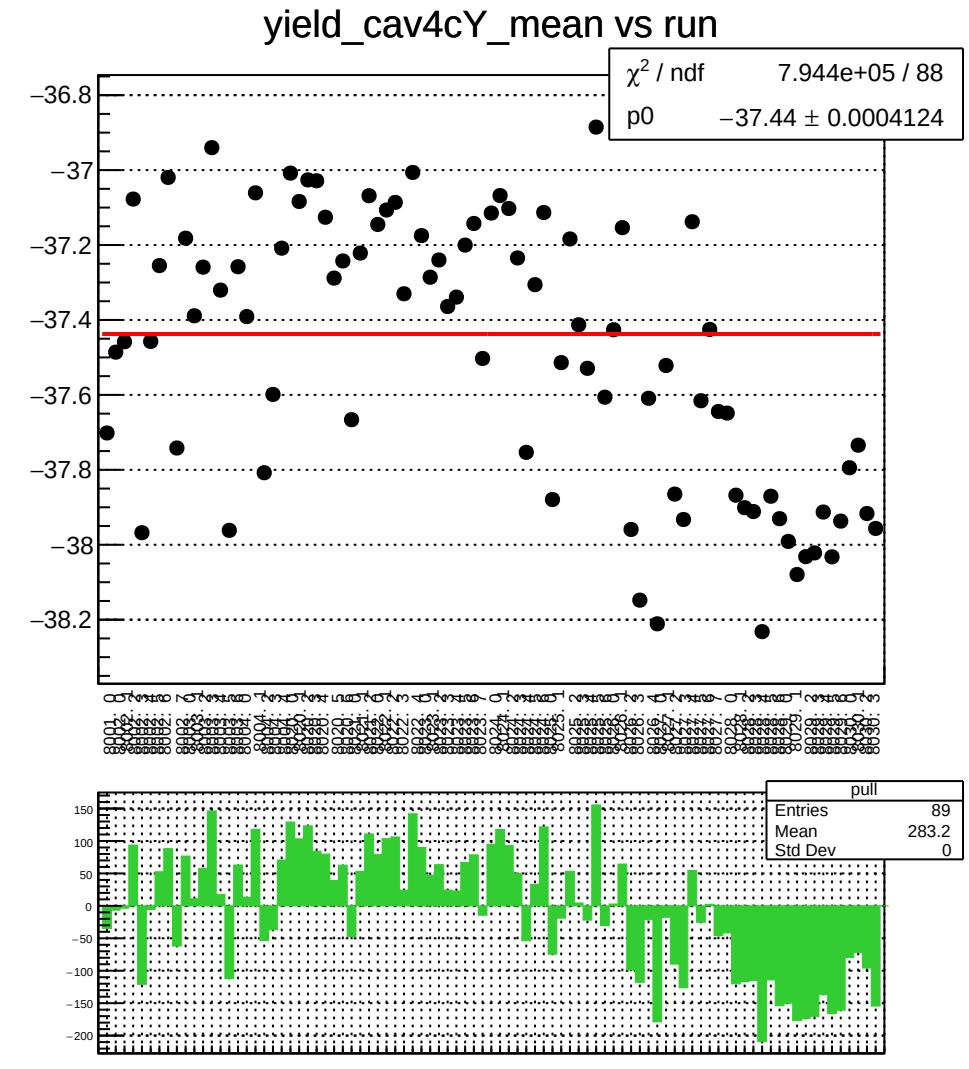

yield_cav4bY_mean vs run
χ² / ndf 6.846e+06 / 88
p0 −67.02 ± 0.001147
pull
Entries 89
Mean 137.9
Std Dev 0

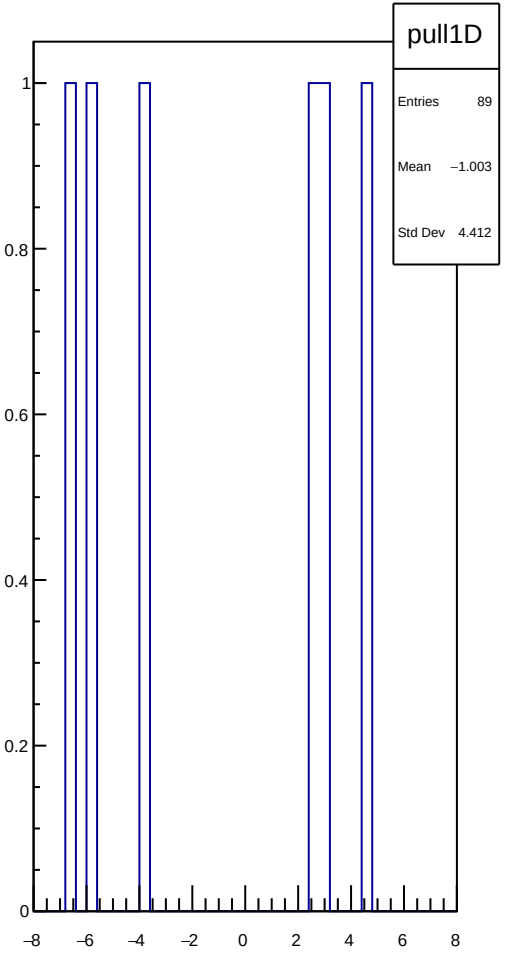

pull1D
Entries 89
Mean −0.8892
Std Dev 3.194

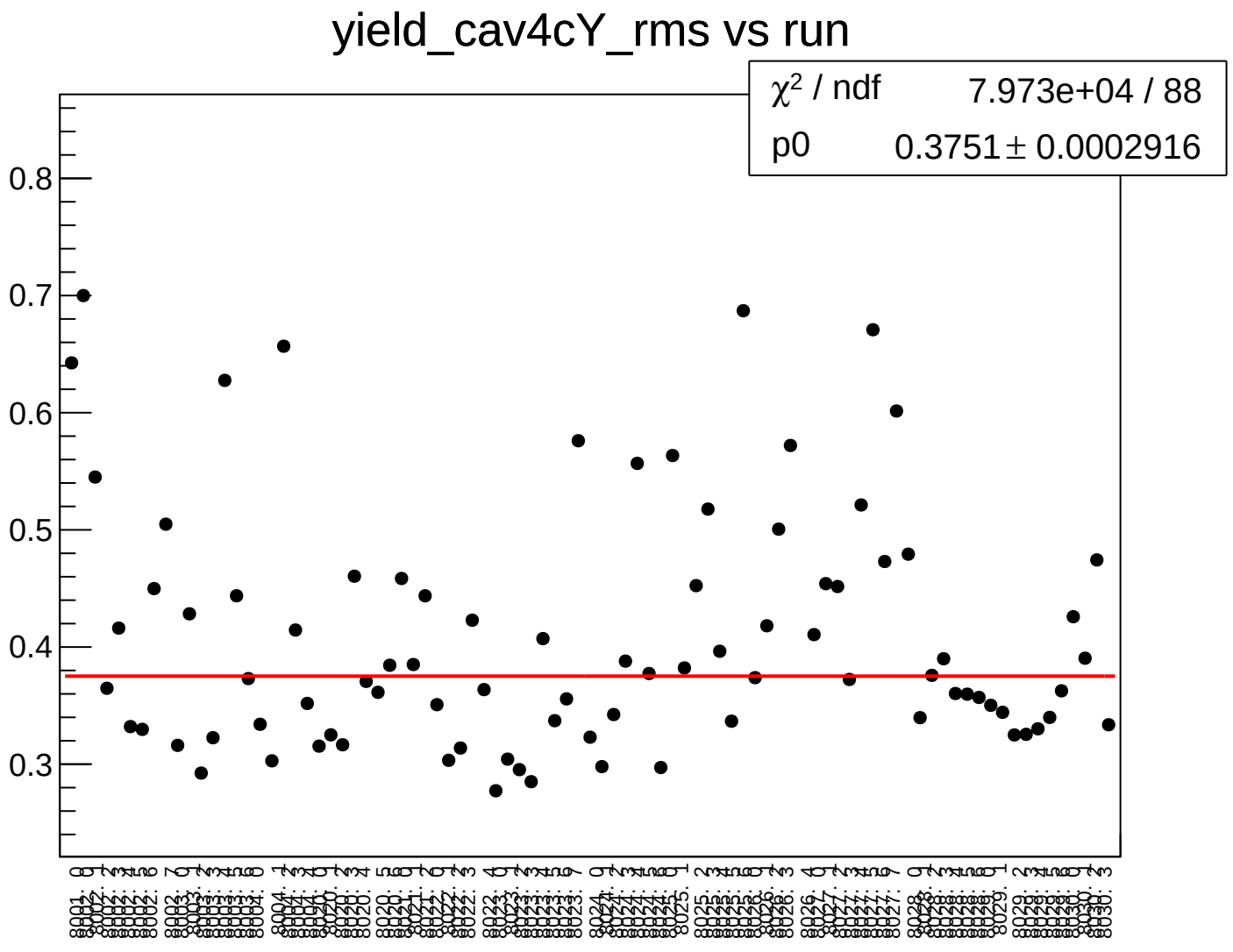

yield_cav4bY_rms vs run
χ^2 / ndf 3.139e+05 / 88
p0 0.9671 ± 0.0008114
4.5
4
3.5
3
2.5
2
1.5
1
0.5

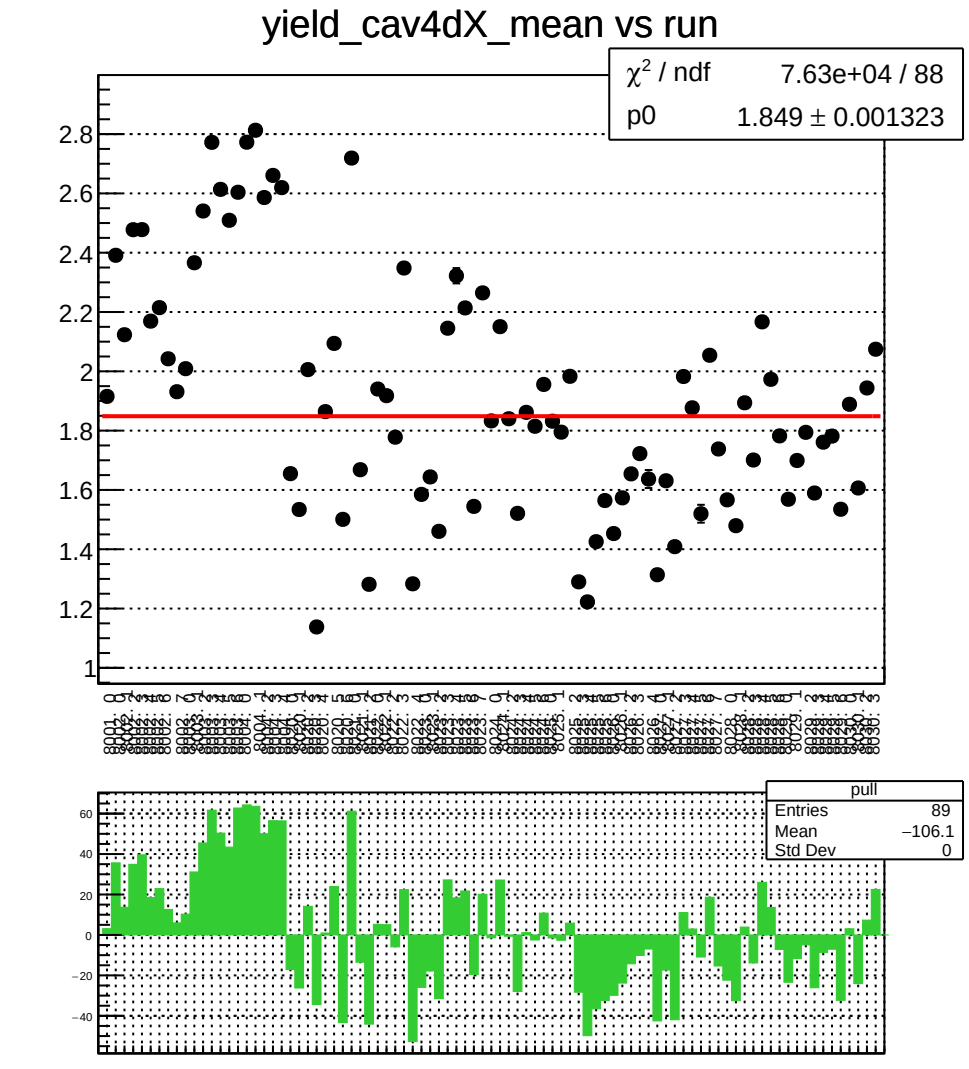

yield_cav4cX_mean vs run
χ² / ndf 7e+04 / 88
p0 0.9837 ± 0.001541
pull
Entries 89
Mean −88.69
Std Dev 0
pull1D
Entries 89
Mean −0.118
Std Dev 4.051

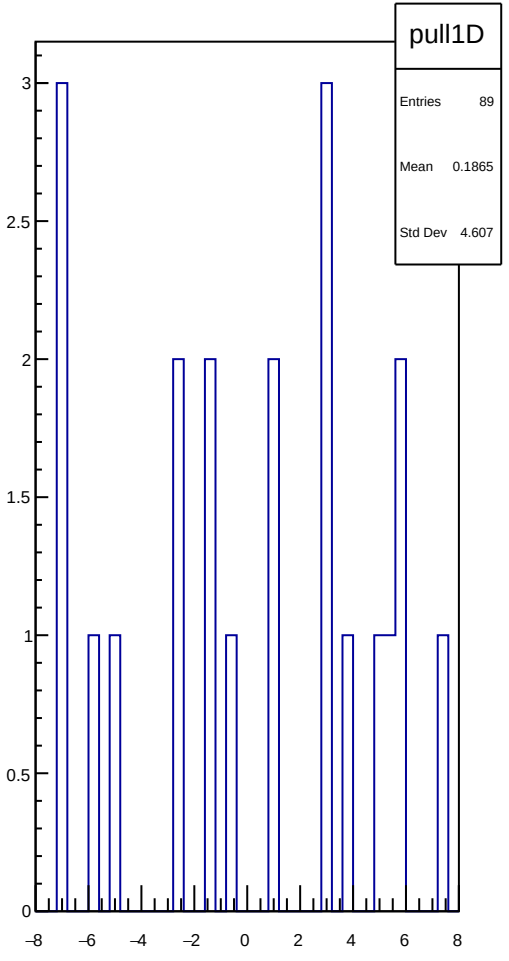

yield_cav4cX_rms vs run
χ² / ndf 8.664e+04 / 88
p0 1.399 ± 0.00109
3.5
3
2.5
2
1.5
1

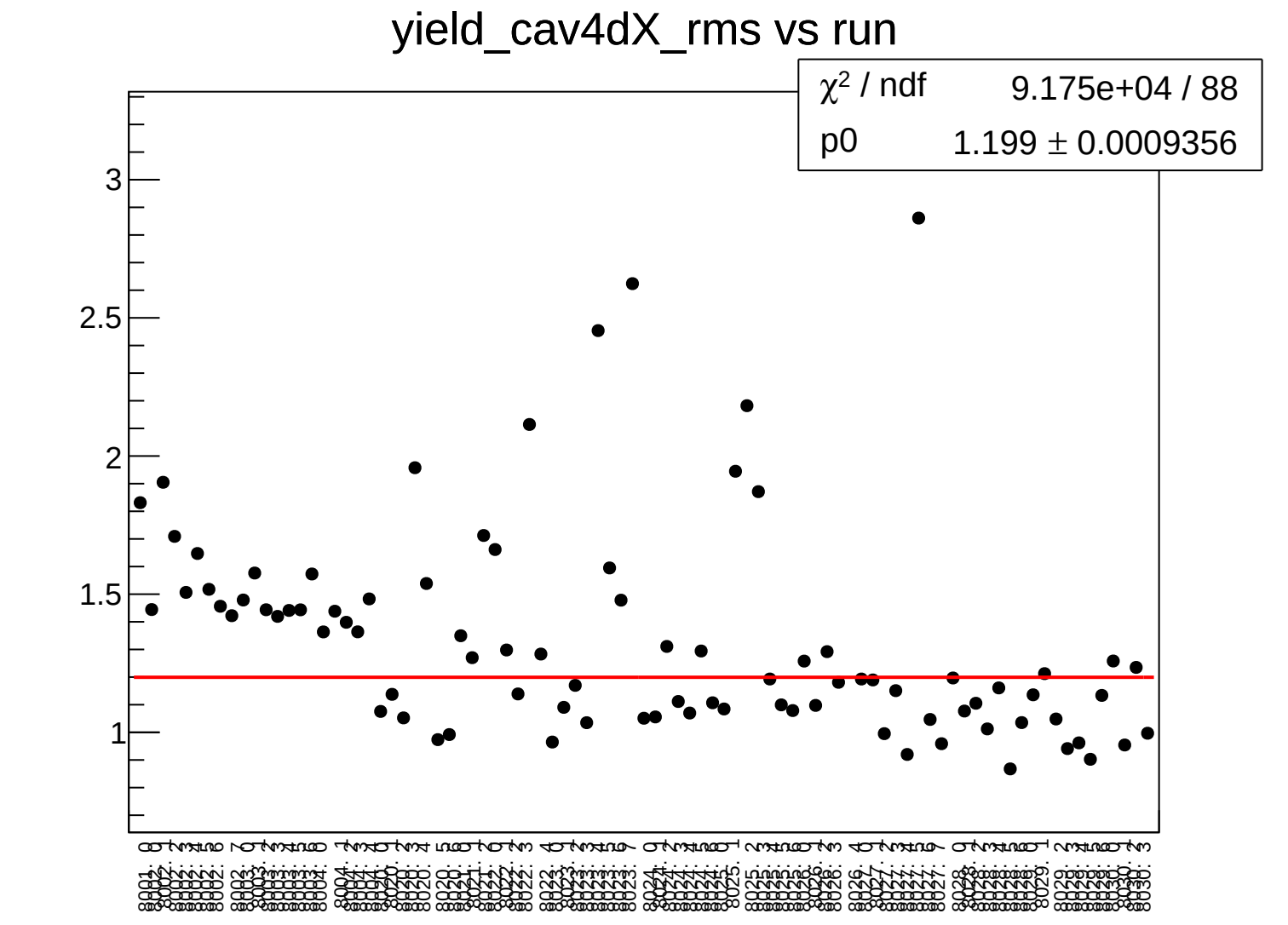

yield_cav4cY_mean vs run
χ² / ndf 7.944e+05 / 88
p0 −37.44 ± 0.0004124
−36.8
−37
−37.2
−37.4
−37.6
−37.8
−38
−38.2
pull
Entries 89
Mean 283.2
Std Dev 0
150
100
50
0
−50
−100
−150
−200

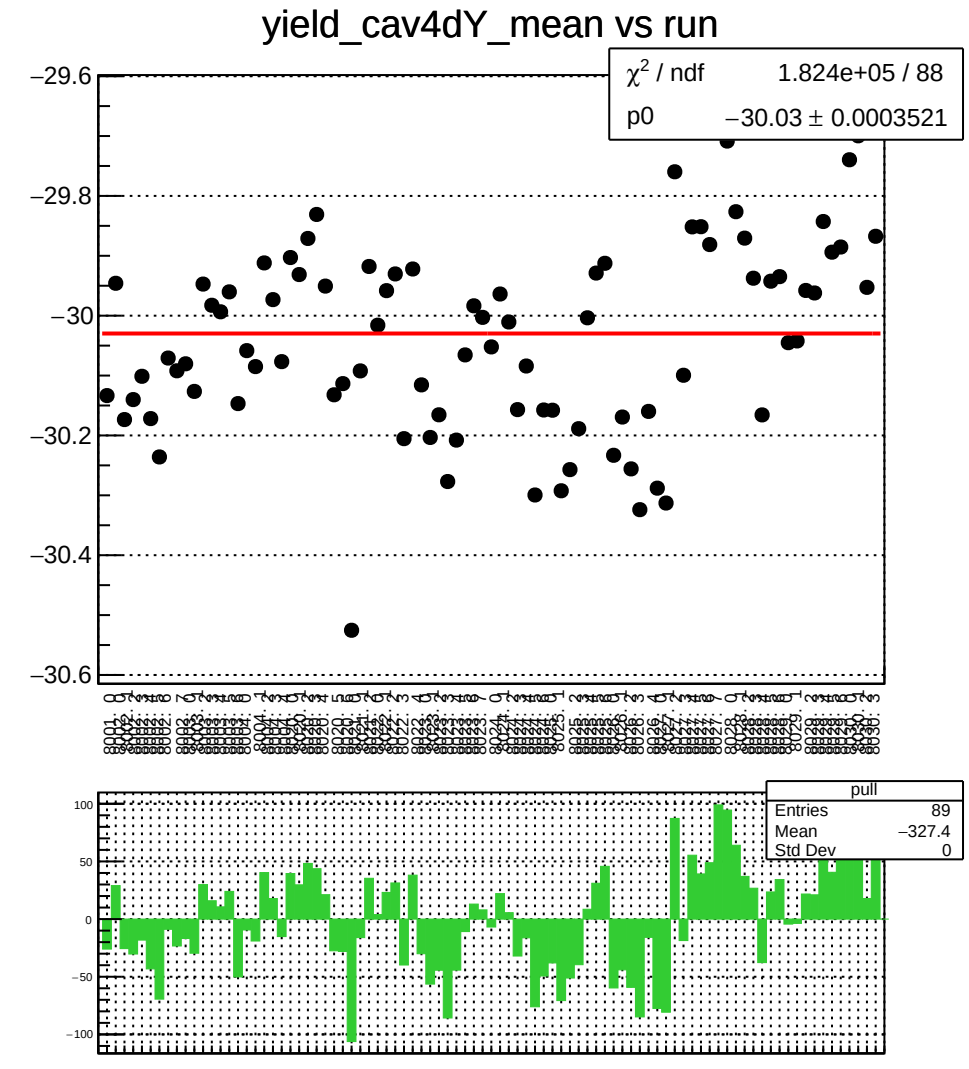

pull1D
Entries 89
Mean −1.003
Std Dev 4.412
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

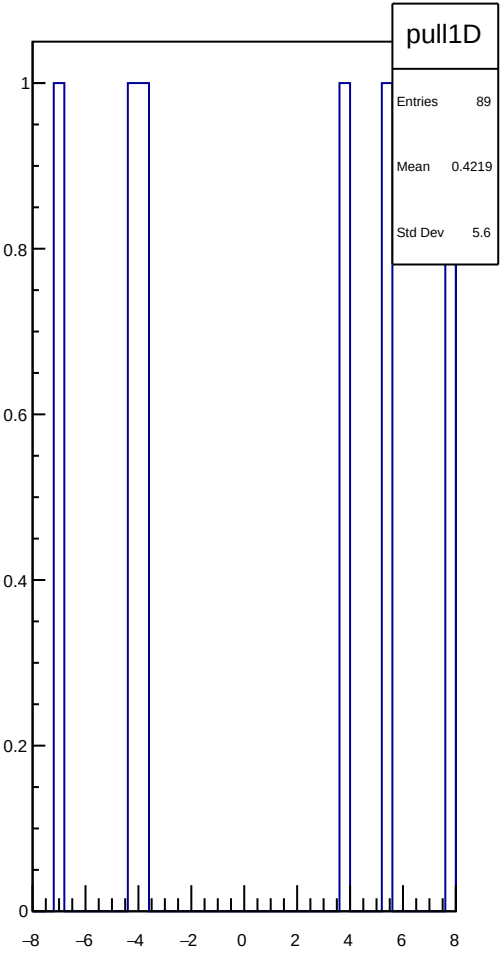

yield_cav4cY_rms vs run
χ² / ndf 7.973e+04 / 88
p0 0.3751 ± 0.0002916
0.8
0.7
0.6
0.5
0.4
0.3

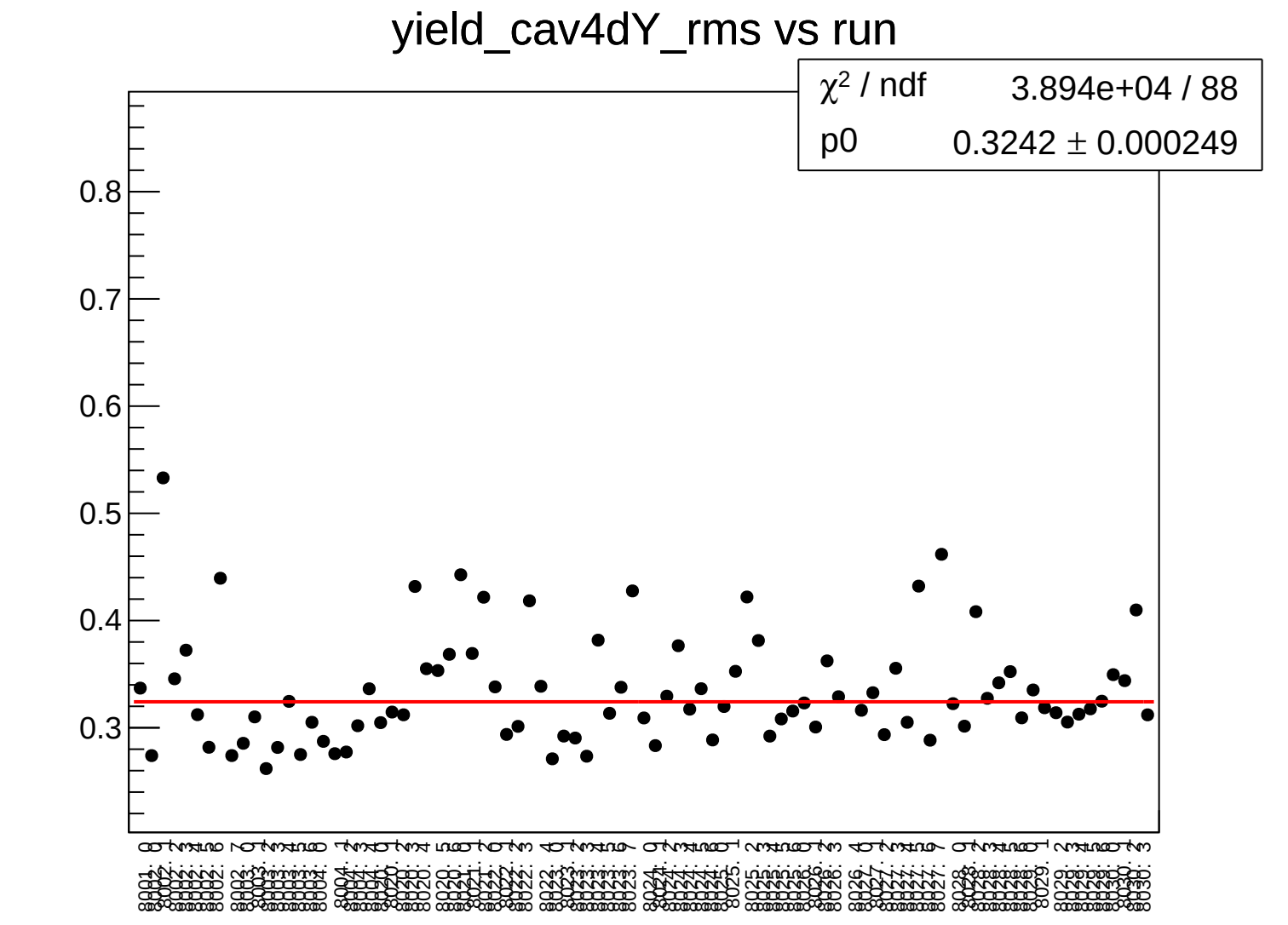

yield_cav4dX_mean vs run
χ² / ndf 7.63e+04 / 88
p0 1.849 ± 0.001323
pull
Entries 89
Mean −106.1
Std Dev 0

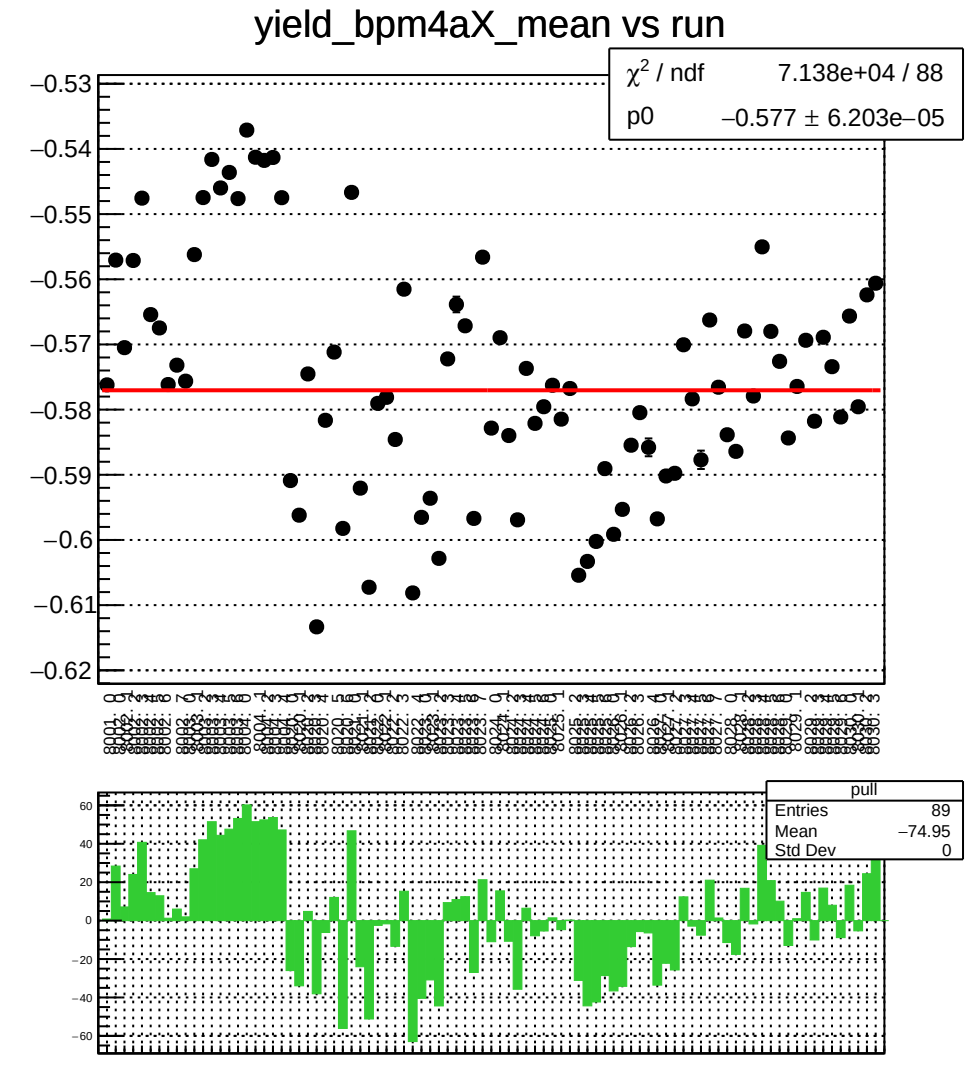

pull1D
Entries 89
Mean 0.1865
Std Dev 4.607

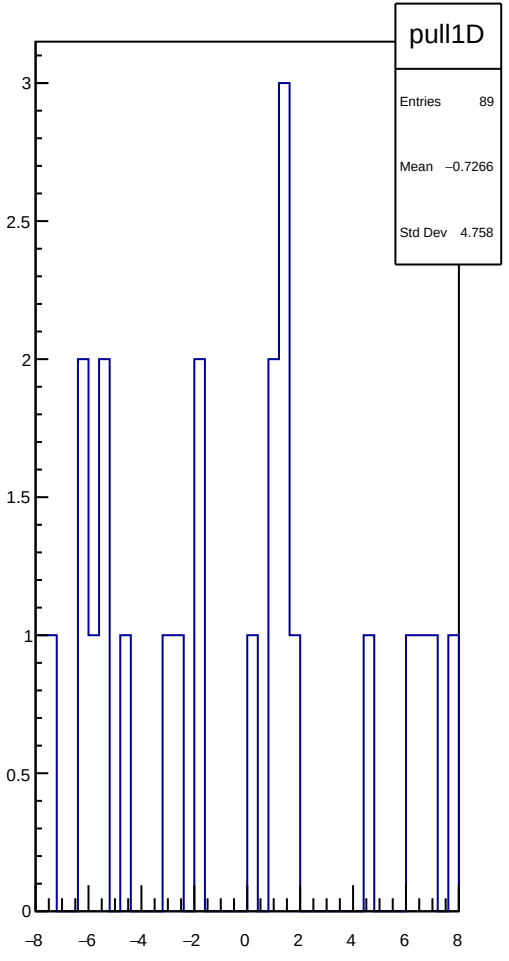

yield_cav4dX_rms vs run
χ² / ndf 9.175e+04 / 88
p0 1.199 ± 0.0009356
3
2.5
2
1.5
1

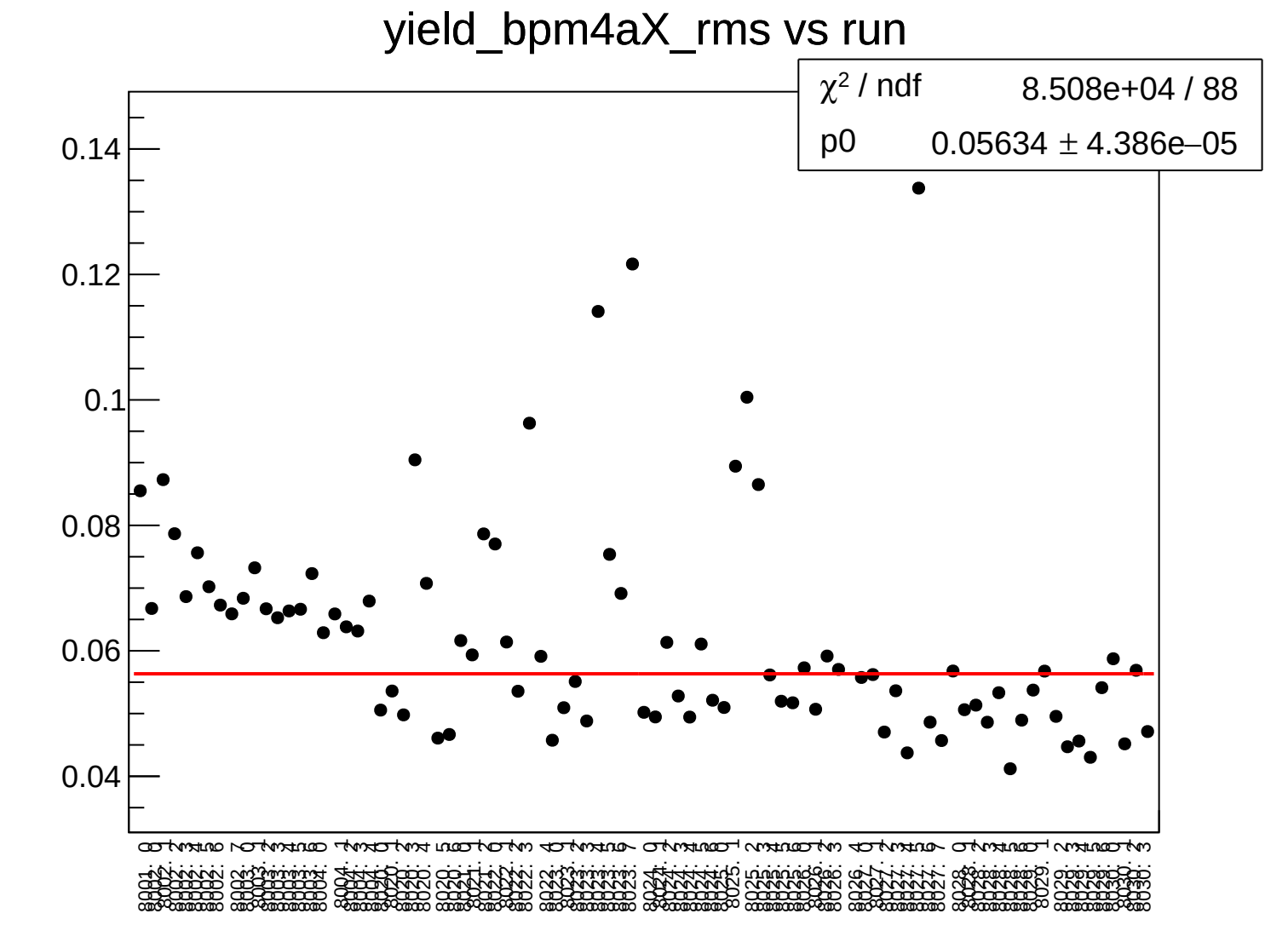

yield_cav4dY_mean vs run
χ² / ndf 1.824e+05 / 88
p0 −30.03 ± 0.0003521
−29.6
−29.8
−30
−30.2
−30.4
−30.6
pull
Entries 89
Mean −327.4
Std Dev 0
100
50
0
−50
−100

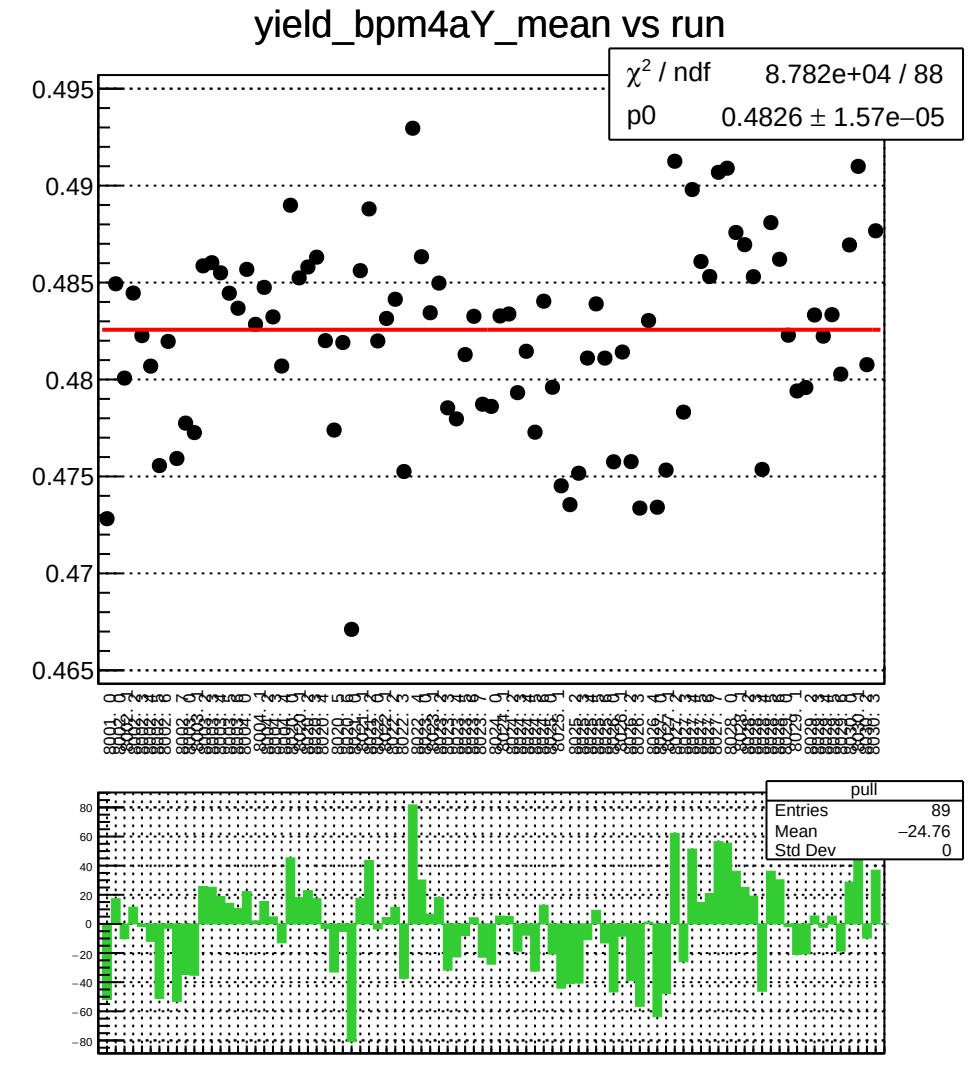

pull1D
Entries 89
Mean 0.4219
Std Dev 5.6
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

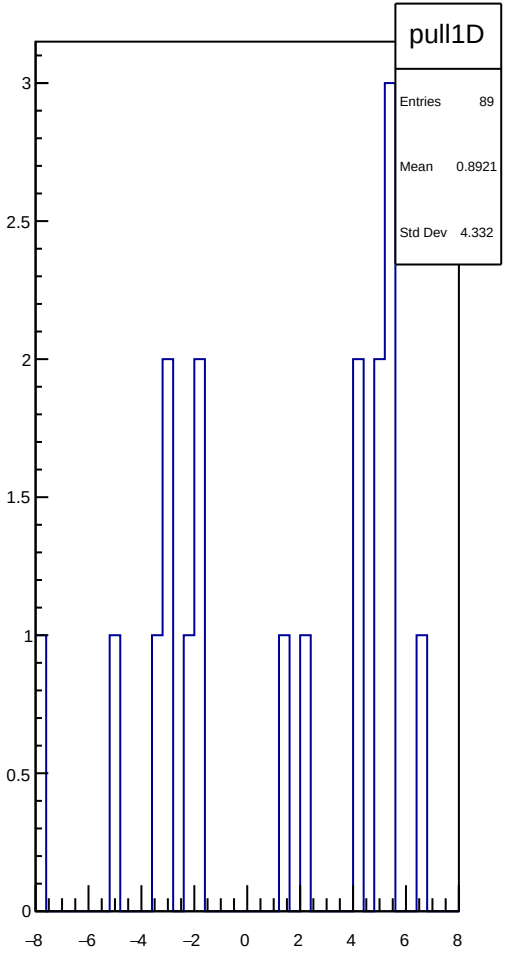

yield_cav4dY_rms vs run
χ² / ndf 3.894e+04 / 88
p0 0.3242 ± 0.000249
0.8
0.7
0.6
0.5
0.4
0.3

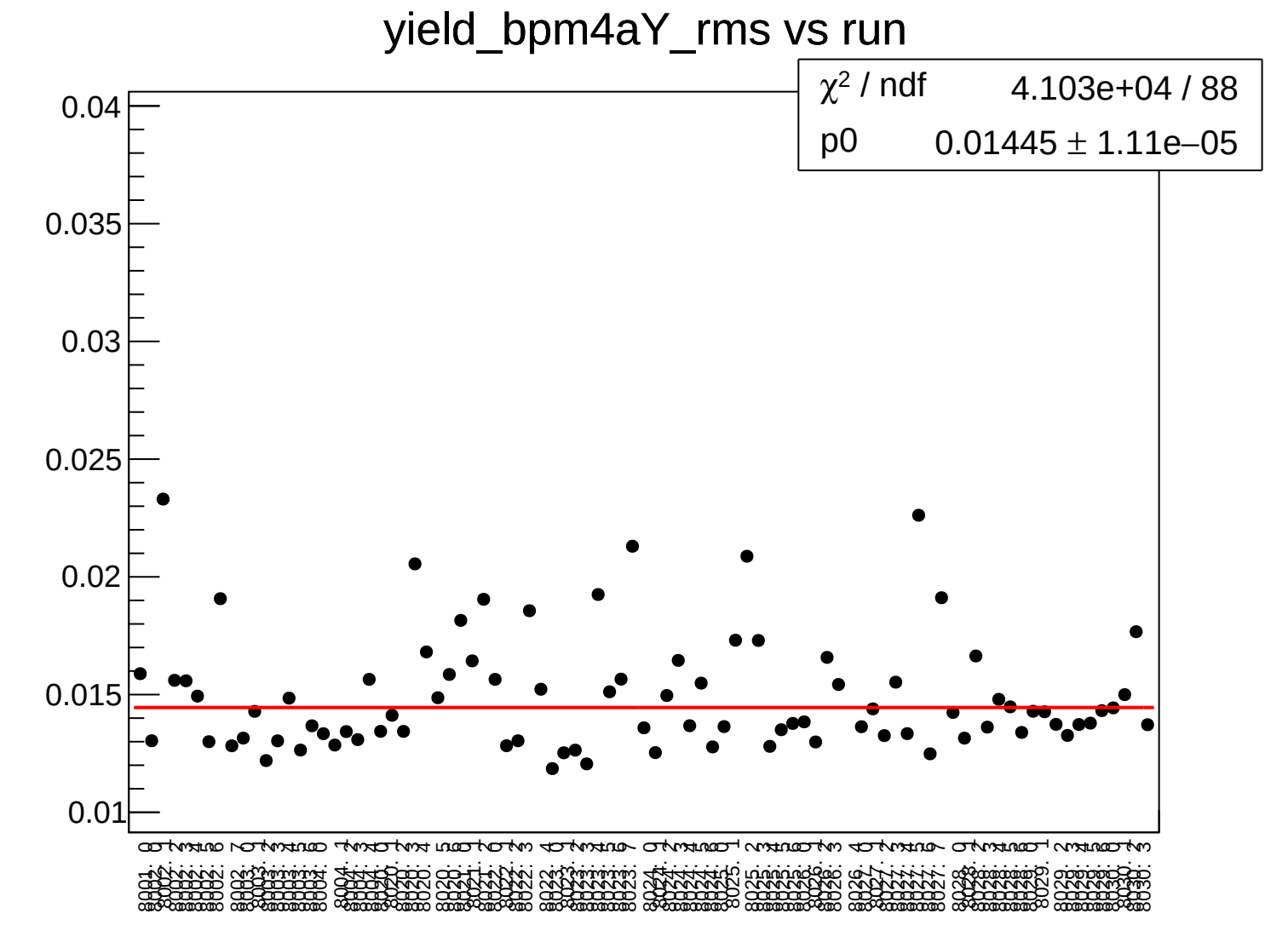

yield_bpm4aX_mean vs run
χ² / ndf 7.138e+04 / 88
p0 −0.577 ± 6.203e−05
−0.53
−0.54
−0.55
−0.56
−0.57
−0.58
−0.59
−0.6
−0.61
−0.62
pull
Entries 89
Mean −74.95
Std Dev 0
60
40
20
0
−20
−40
−60

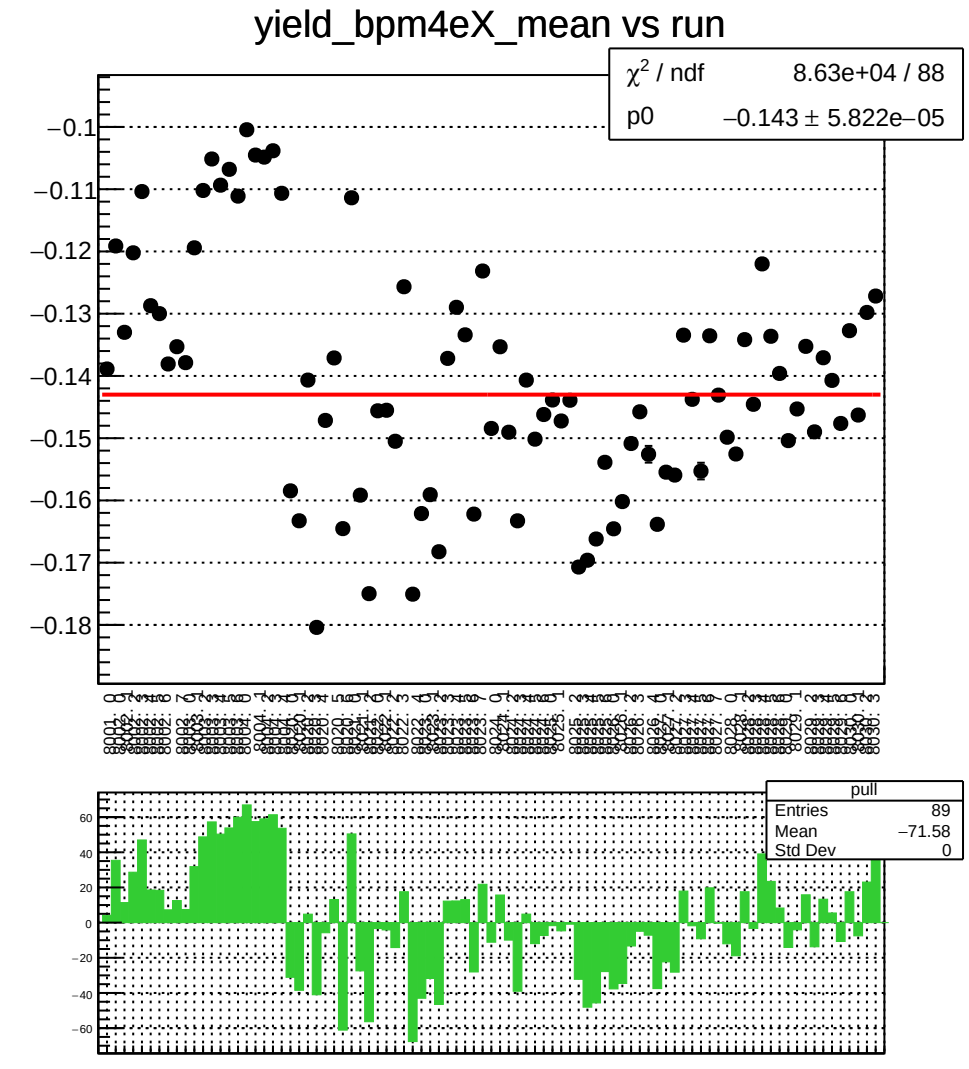

pull1D
Entries 89
Mean −0.7266
Std Dev 4.758
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

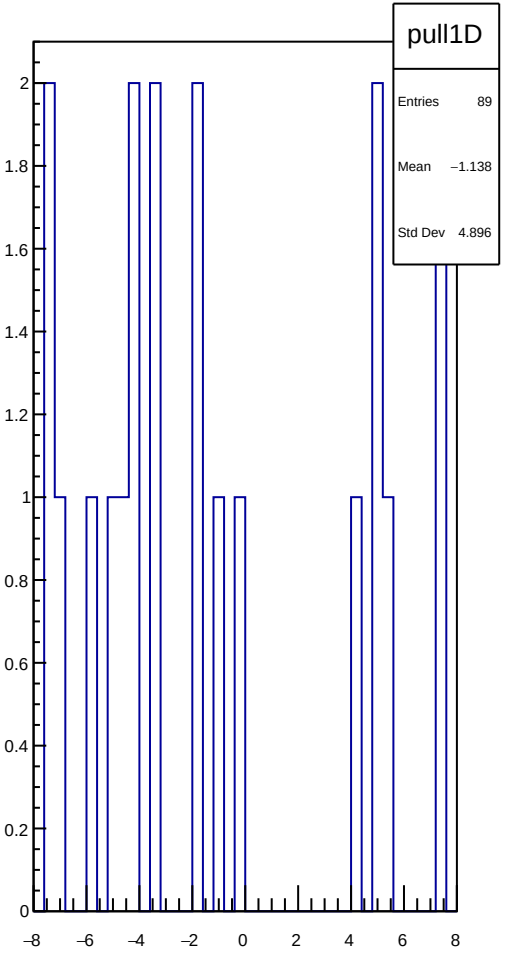

yield_bpm4aX_rms vs run
χ² / ndf 8.508e+04 / 88
p0 0.05634 ± 4.386e–05
0.14
0.12
0.1
0.08
0.06
0.04

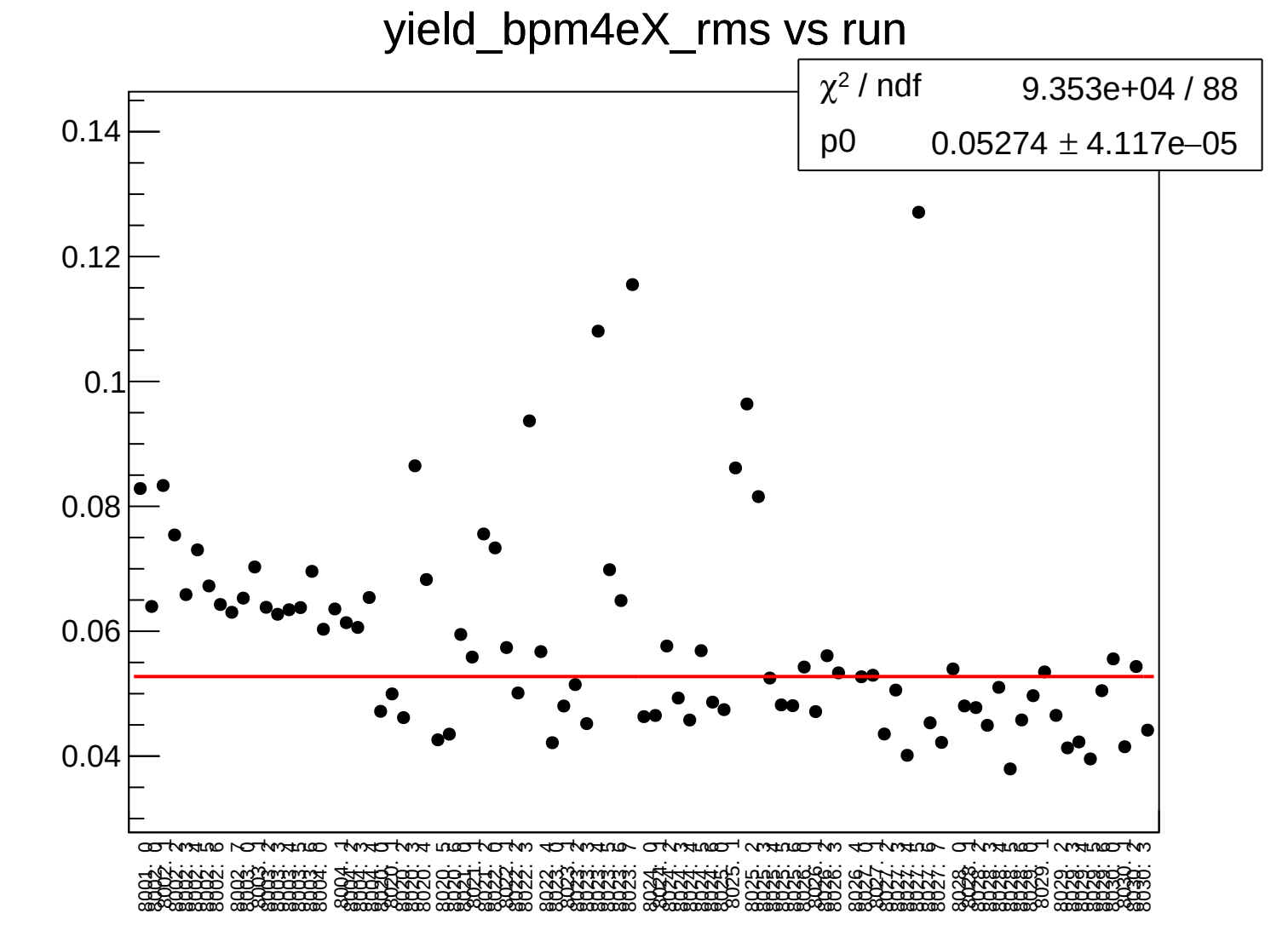

yield_bpm4aY_mean vs run
χ² / ndf 8.782e+04 / 88
p0 0.4826 ± 1.57e−05
0.495
0.49
0.485
0.48
0.475
0.47
0.465
pull
Entries 89
Mean −24.76
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80

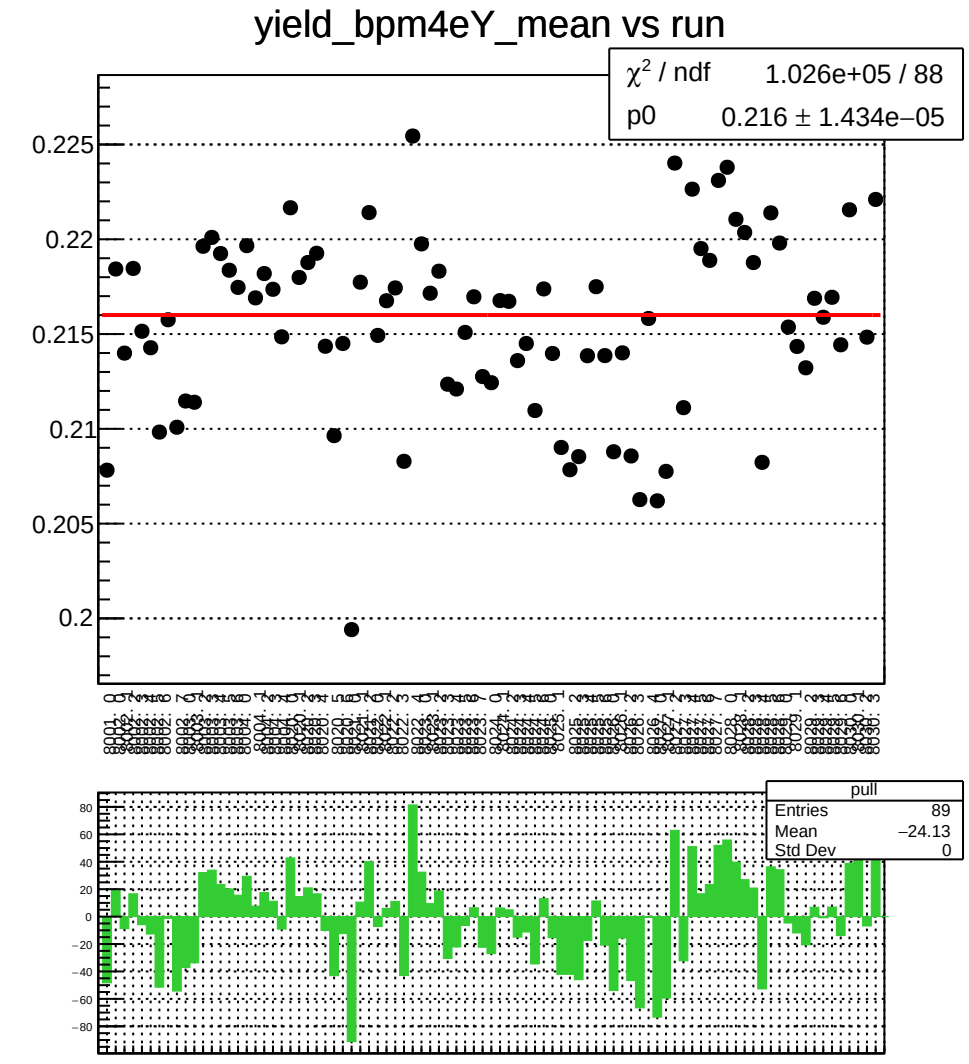

pull1D
Entries 89
Mean 0.8921
Std Dev 4.332
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

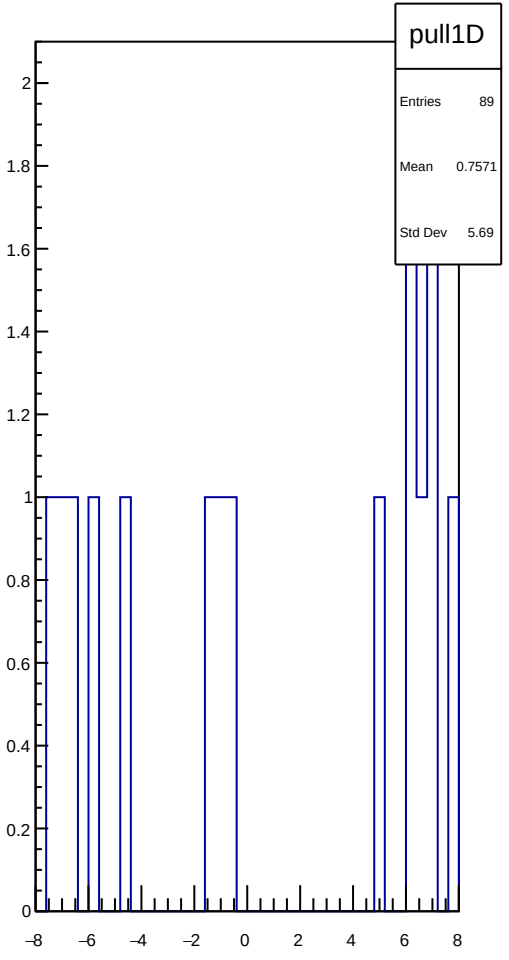

yield_bpm4aY_rms vs run
χ² / ndf 4.103e+04 / 88
p0 0.01445 ± 1.11e−05
0.04
0.035
0.03
0.025
0.02
0.015
0.01

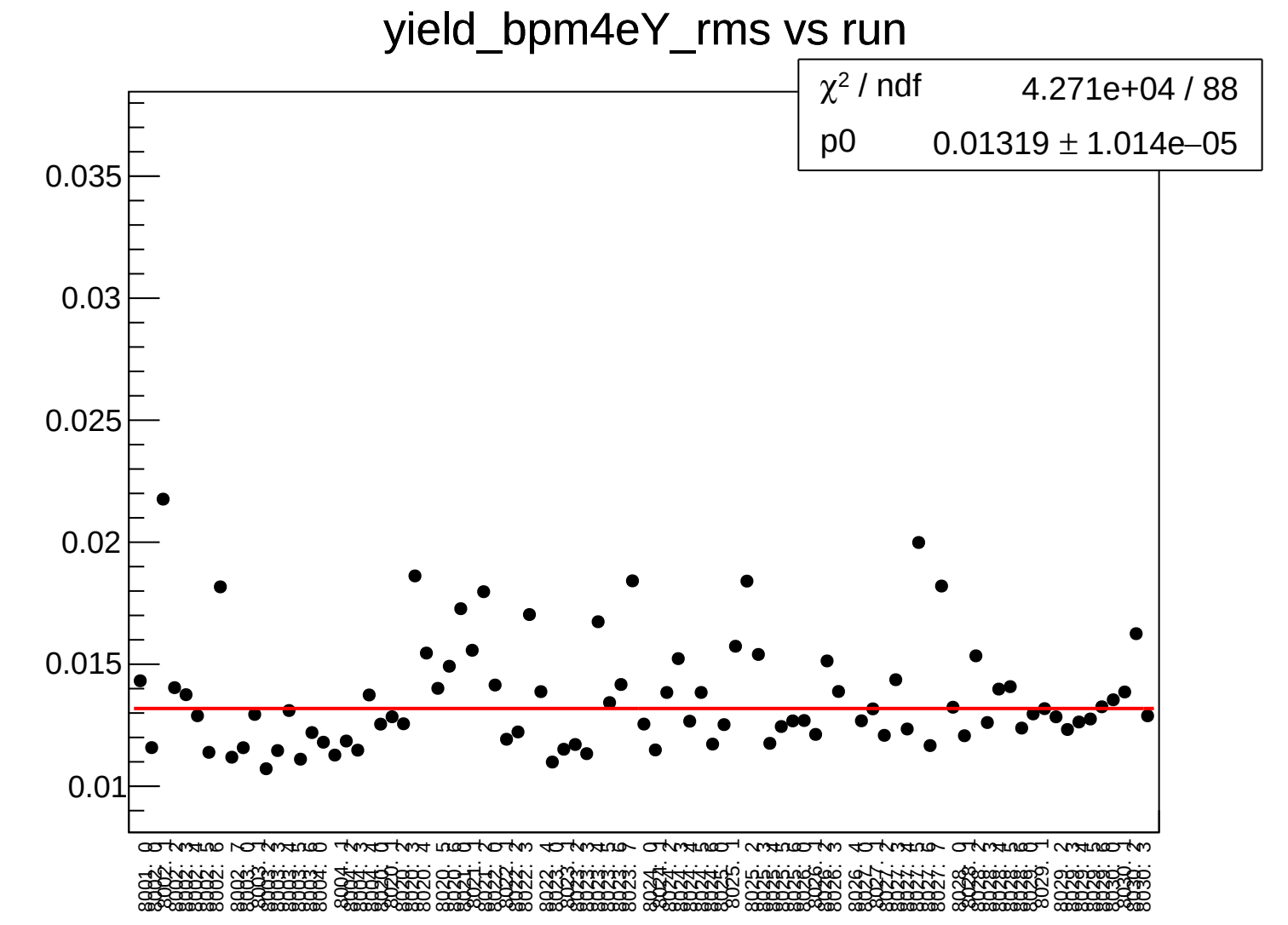

yield_bpm4eX_mean vs run
χ² / ndf 8.63e+04 / 88
p0 −0.143 ± 5.822e−05
−0.1
−0.11
−0.12
−0.13
−0.14
−0.15
−0.16
−0.17
−0.18
pull
Entries 89
Mean −71.58
Std Dev 0
60
40
20
0
−20
−40
−60

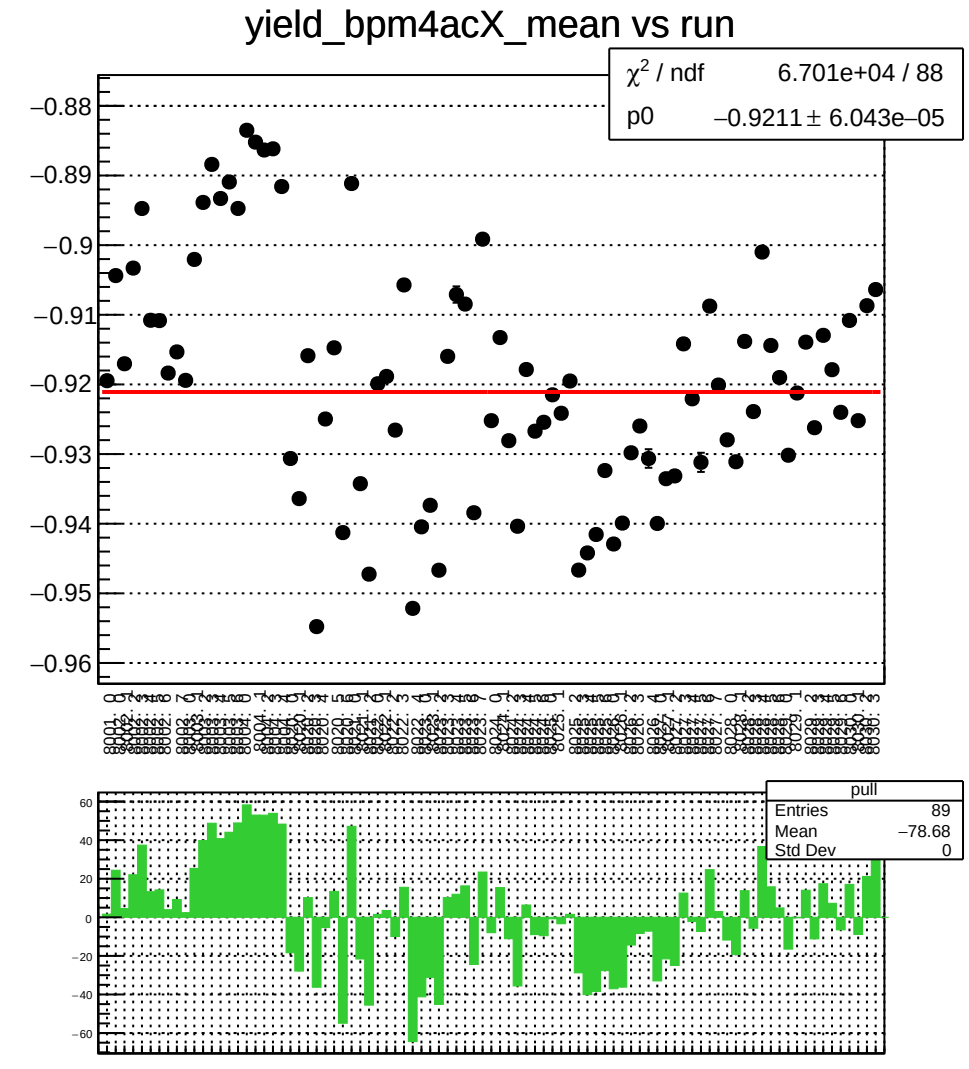

pull1D
Entries 89
Mean −1.138
Std Dev 4.896
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

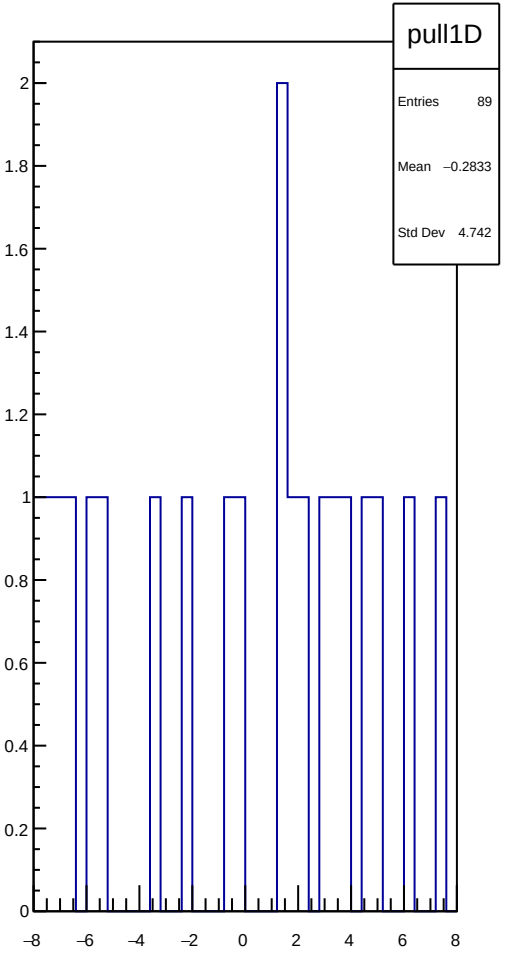

yield_bpm4eX_rms vs run
χ² / ndf 9.353e+04 / 88
p0 0.05274 ± 4.117e–05
0.14
0.12
0.1
0.08
0.06
0.04

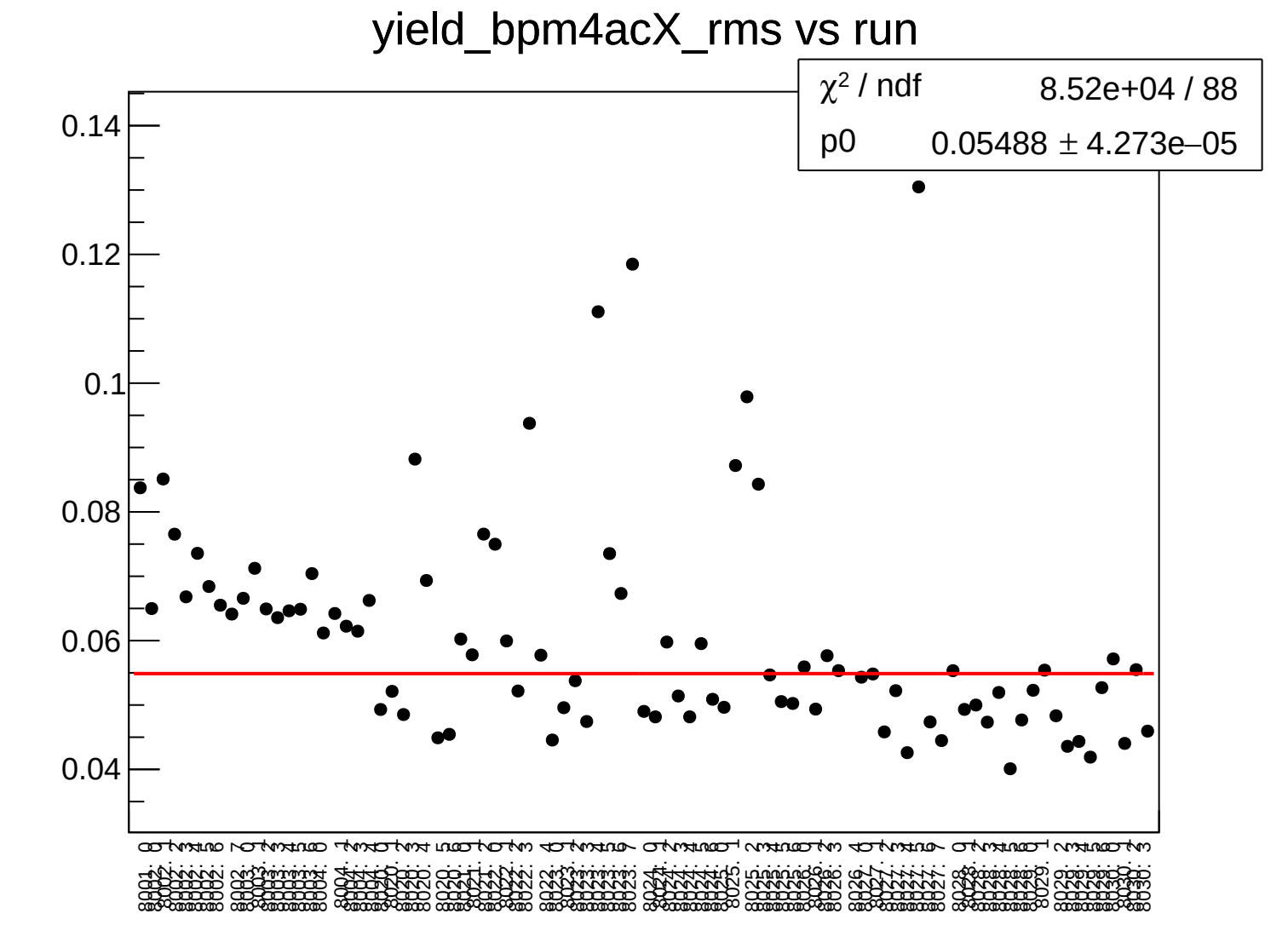

yield_bpm4eY_mean vs run
χ² / ndf 1.026e+05 / 88
p0 0.216 ± 1.434e−05
0.225
0.22
0.215
0.21
0.205
0.2
pull
Entries 89
Mean −24.13
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80

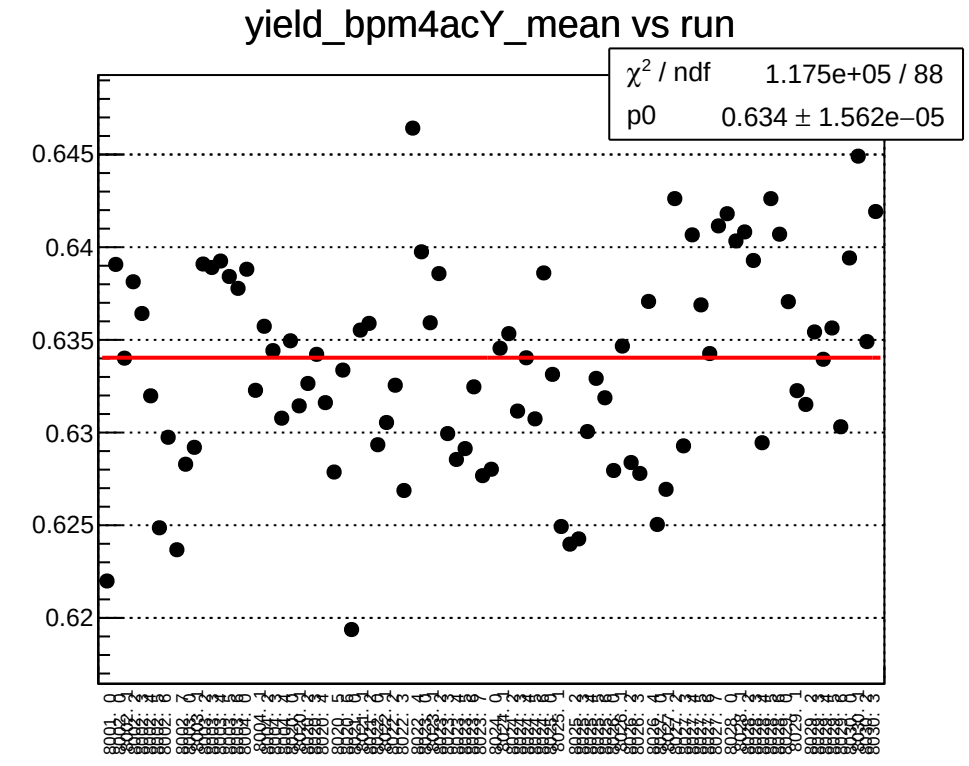

pull1D
Entries 89
Mean 0.7571
Std Dev 5.69
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

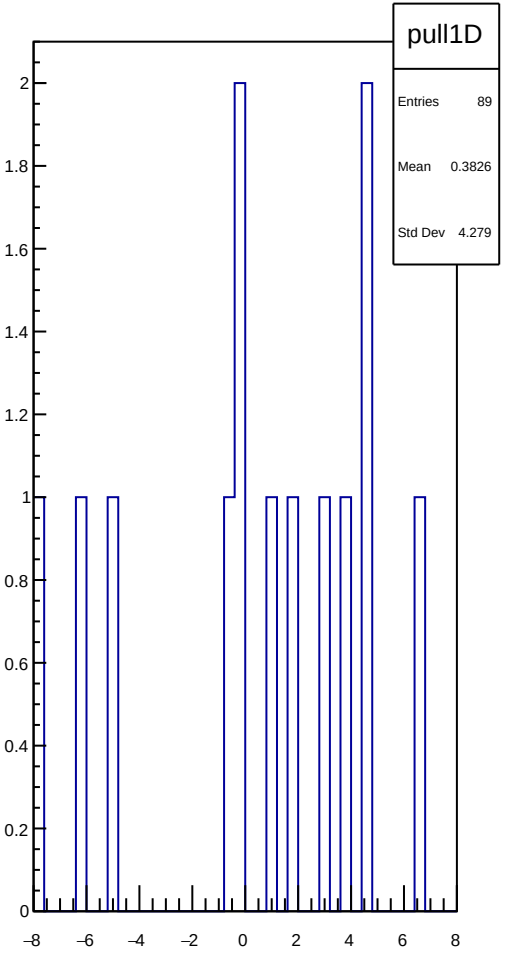

yield_bpm4eY_rms vs run
χ² / ndf 4.271e+04 / 88
p0 0.01319 ± 1.014e–05
0.035
0.03
0.025
0.02
0.015
0.01

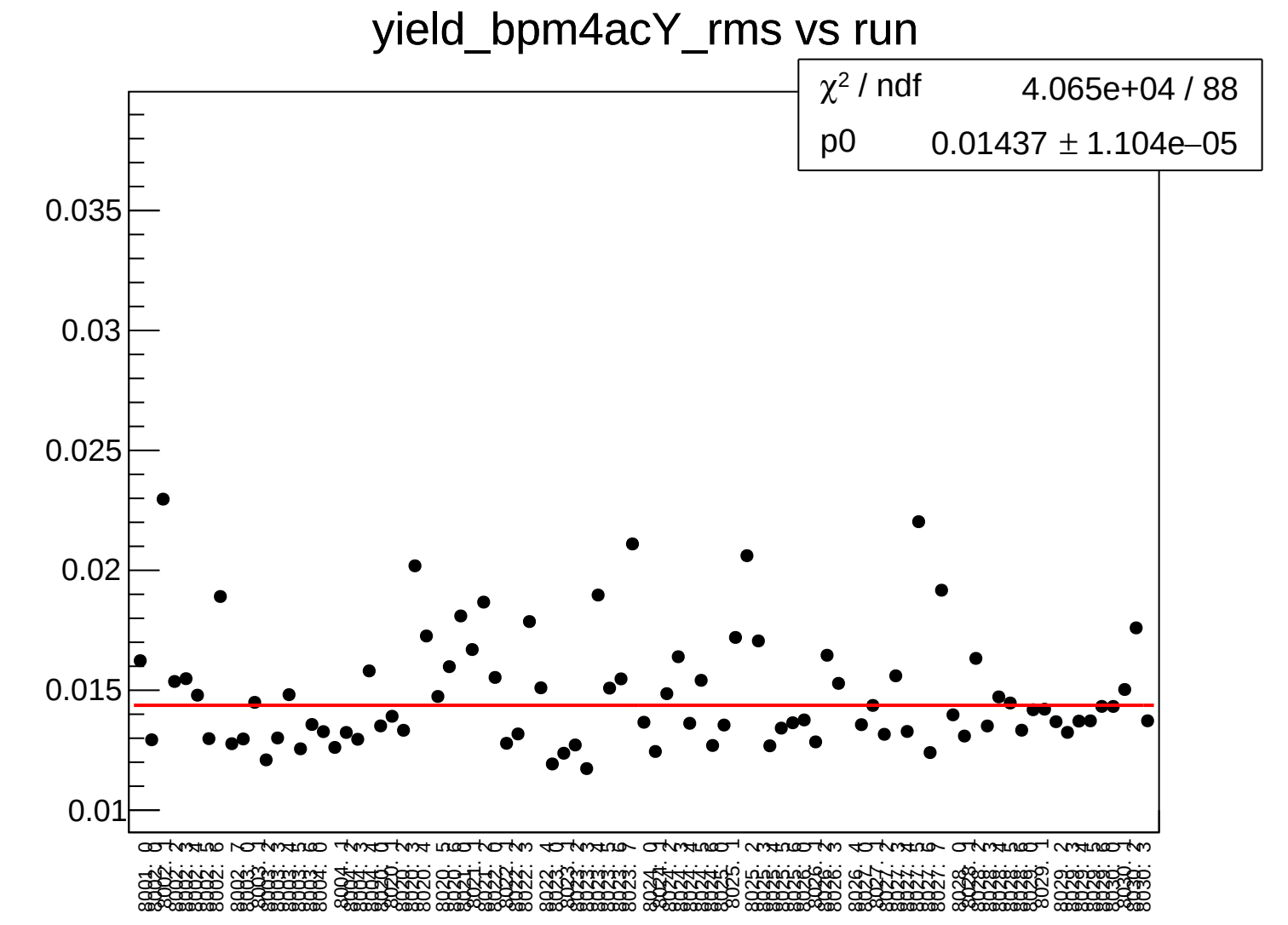

yield_bpm4acX_mean vs run
χ² / ndf 6.701e+04 / 88
p0 −0.9211 ± 6.043e−05
−0.88
−0.89
−0.9
−0.91
−0.92
−0.93
−0.94
−0.95
−0.96
pull
Entries 89
Mean −78.68
Std Dev 0
60
40
20
0
−20
−40
−60

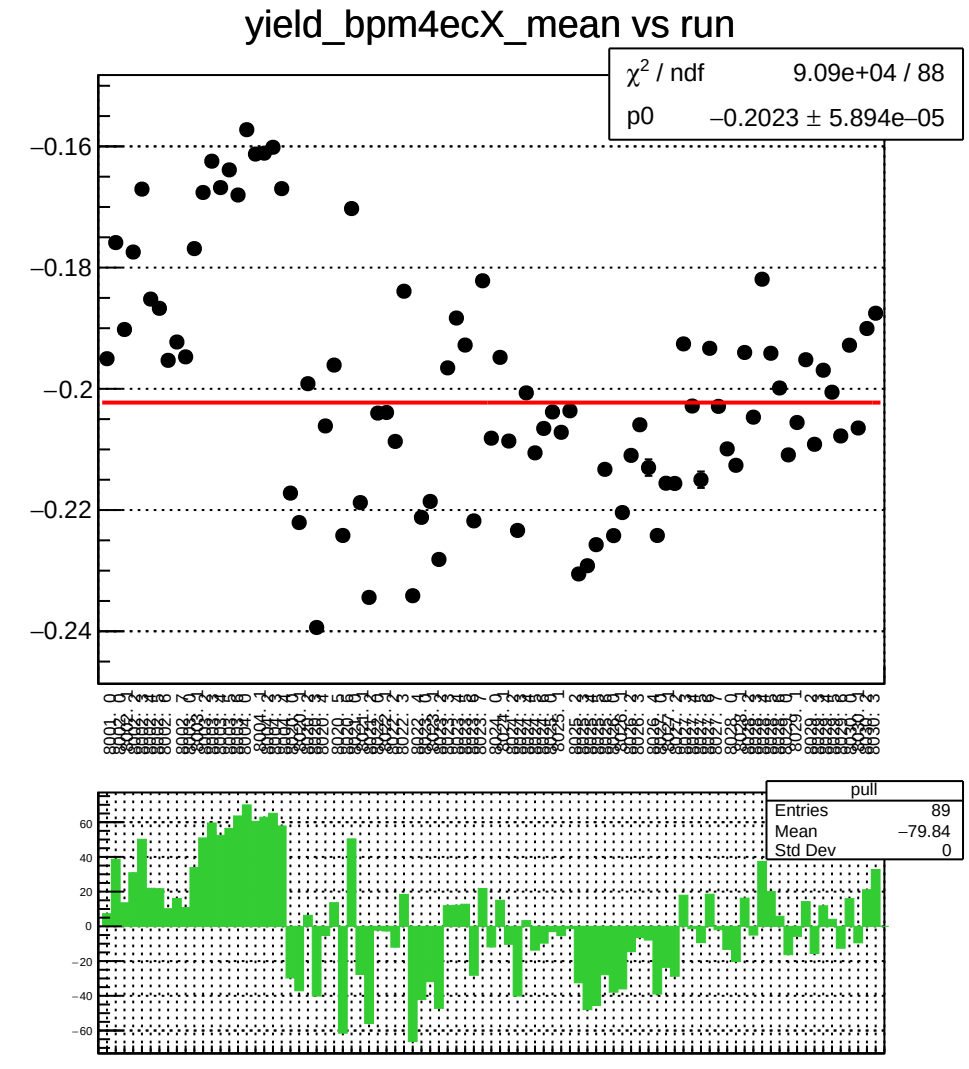

pull1D
Entries 89
Mean −0.2833
Std Dev 4.742
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

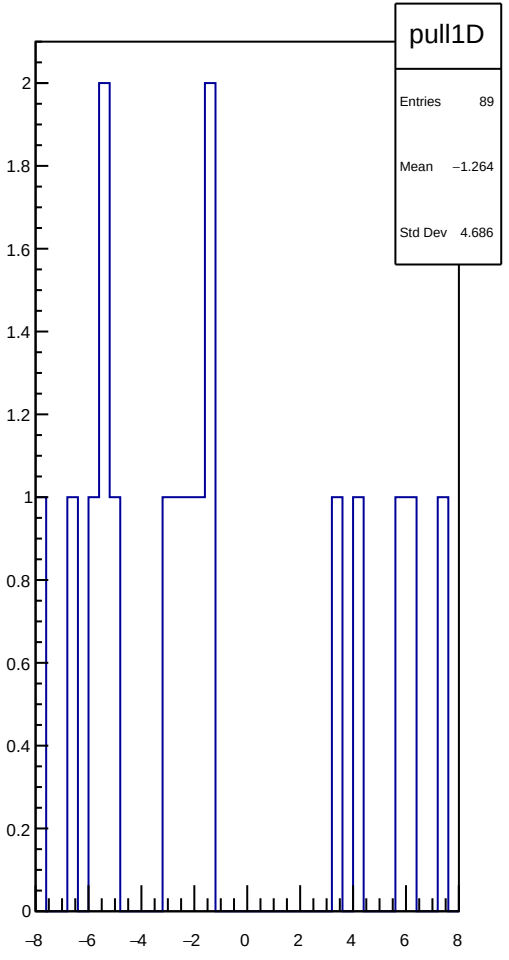

yield_bpm4acX_rms vs run
χ² / ndf 8.52e+04 / 88
p0 0.05488 ± 4.273e−05
0.14
0.12
0.1
0.08
0.06
0.04

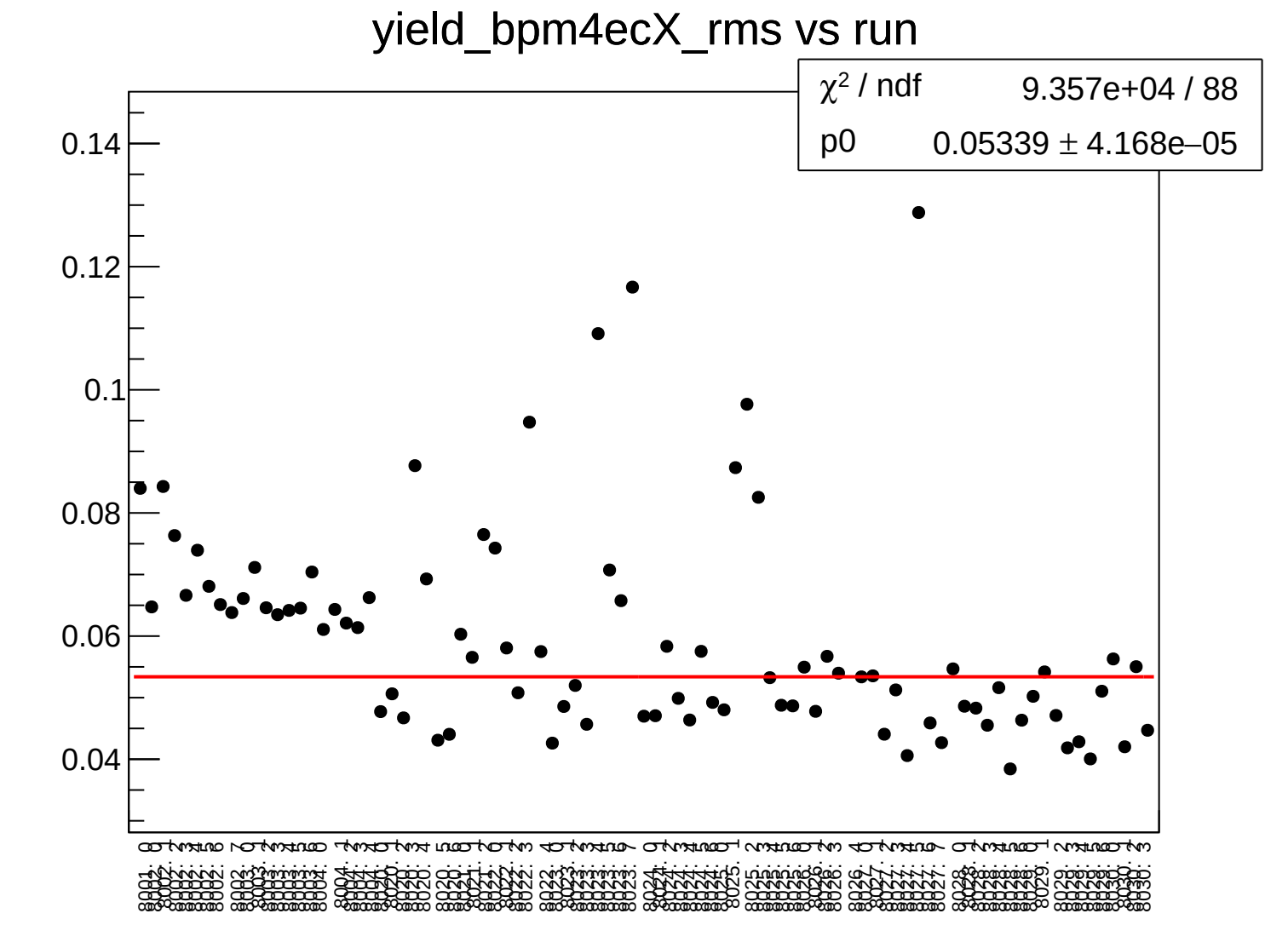

yield_bpm4acY_mean vs run
χ² / ndf 1.175e+05 / 88
p0 0.634 ± 1.562e−05
0.645
0.64
0.635
0.63
0.625
0.62
pull
Entries 89
Mean −76.88
Std Dev 0
100
80
60
40
20
0
−20
−40
−60
−80

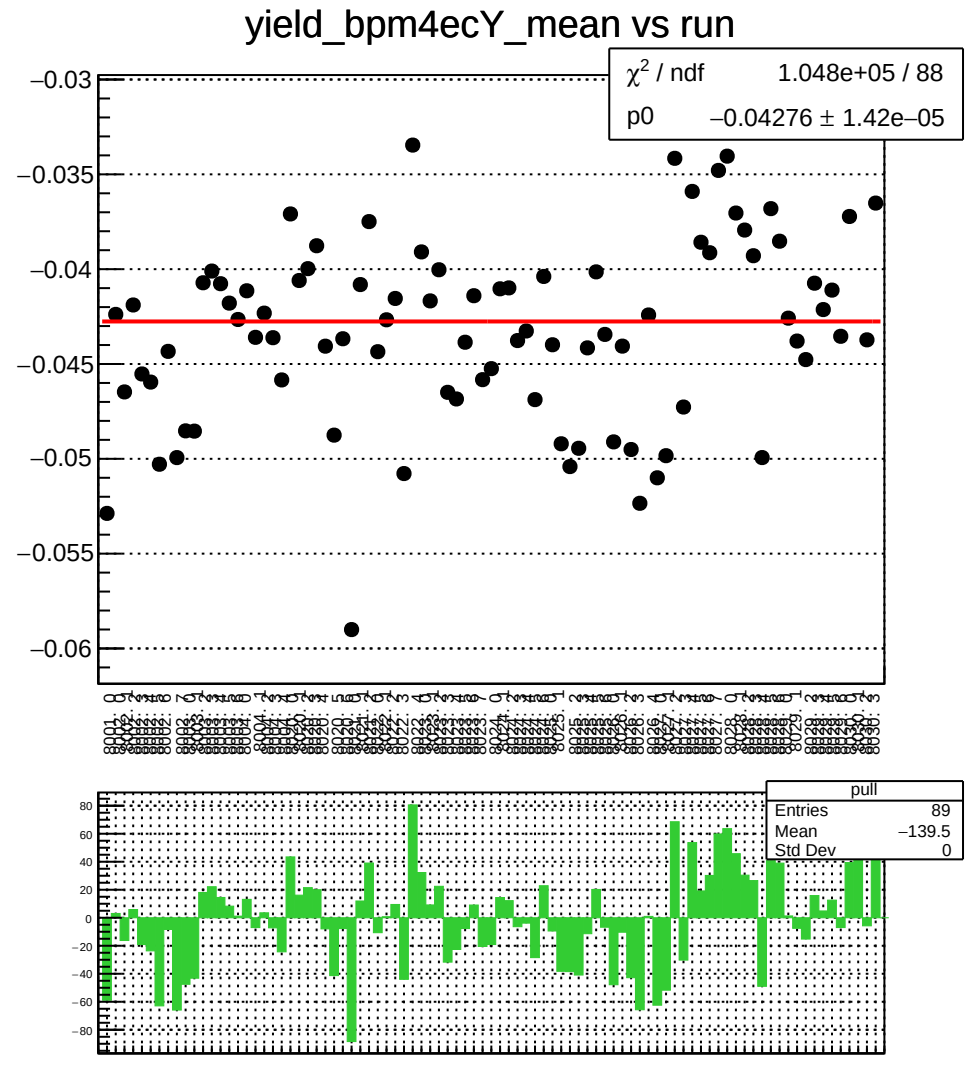

pull1D
Entries 89
Mean 0.3826
Std Dev 4.279
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

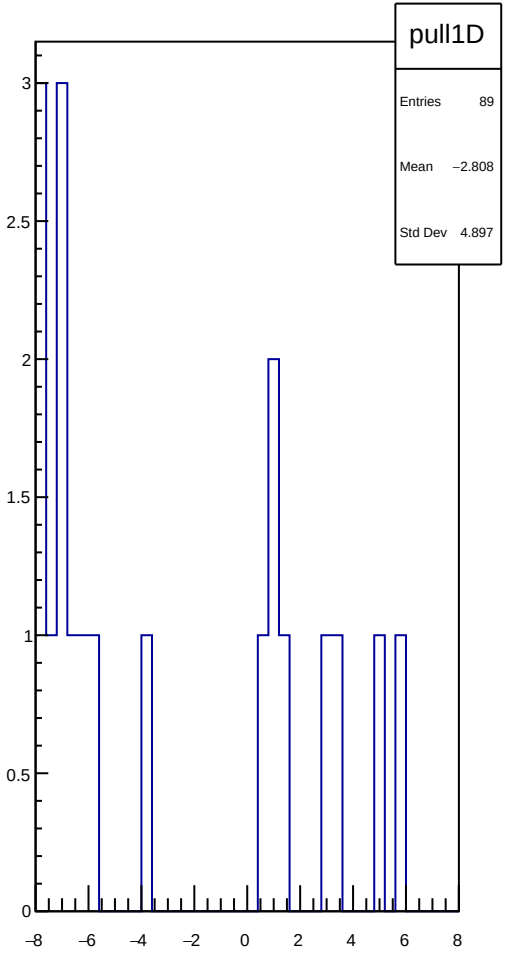

yield_bpm4acY_rms vs run
χ² / ndf 4.065e+04 / 88
p0 0.01437 ± 1.104e–05
0.035
0.03
0.025
0.02
0.015
0.01

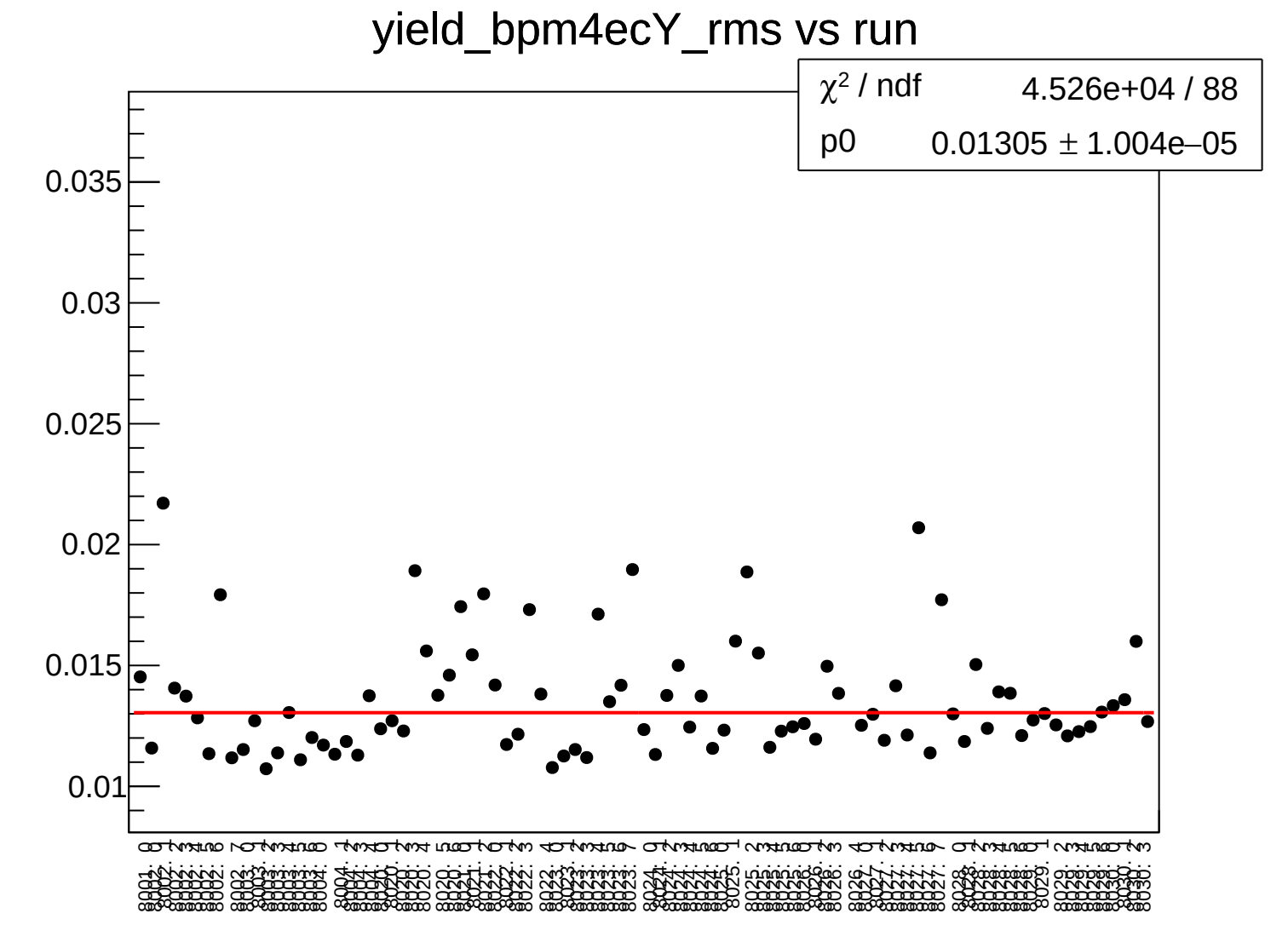

yield_bpm4ecX_mean vs run
χ² / ndf 9.09e+04 / 88
p0 −0.2023 ± 5.894e−05
−0.16
−0.18
−0.2
−0.22
−0.24
pull
Entries 89
Mean −79.84
Std Dev 0
60
40
20
0
−20
−40
−60

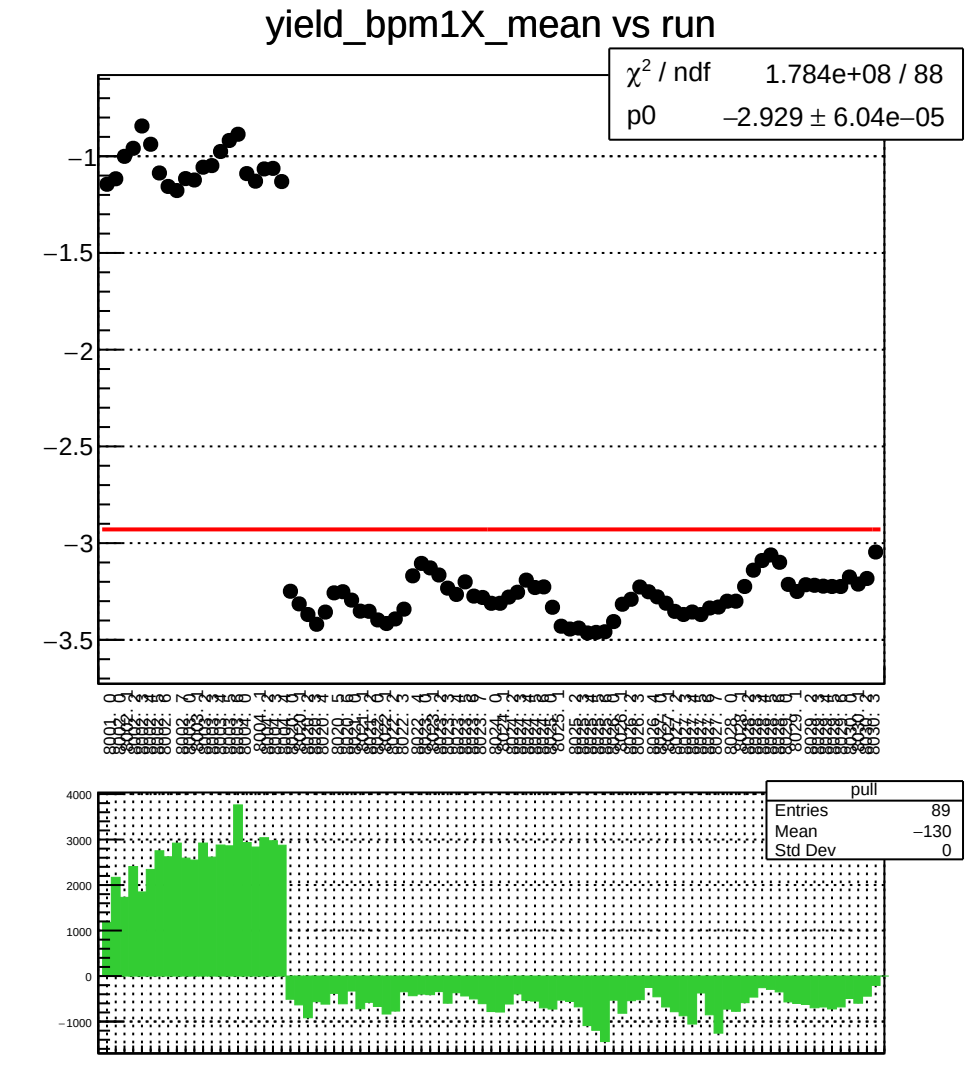

pull1D
Entries 89
Mean −1.264
Std Dev 4.686
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

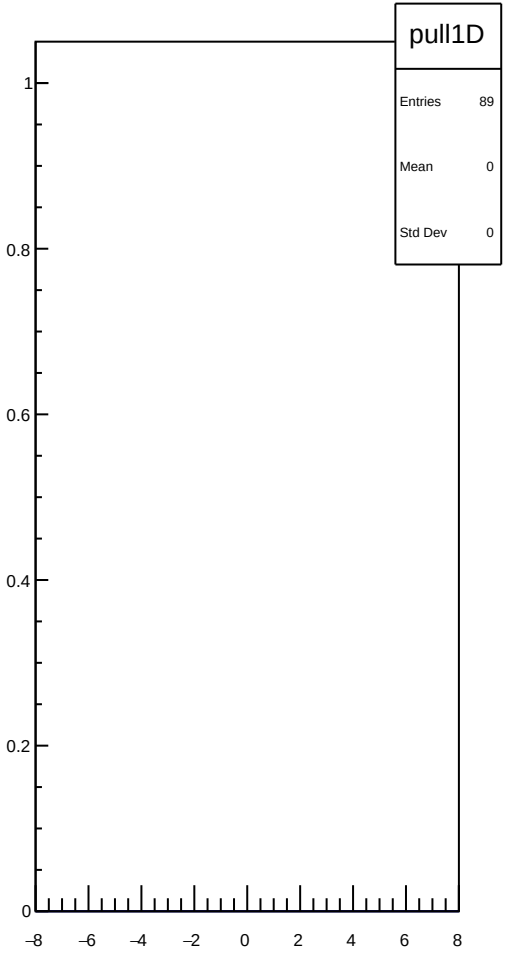

yield_bpm4ecX_rms vs run
χ² / ndf 9.357e+04 / 88
p0 0.05339 ± 4.168e–05
0.14
0.12
0.1
0.08
0.06
0.04

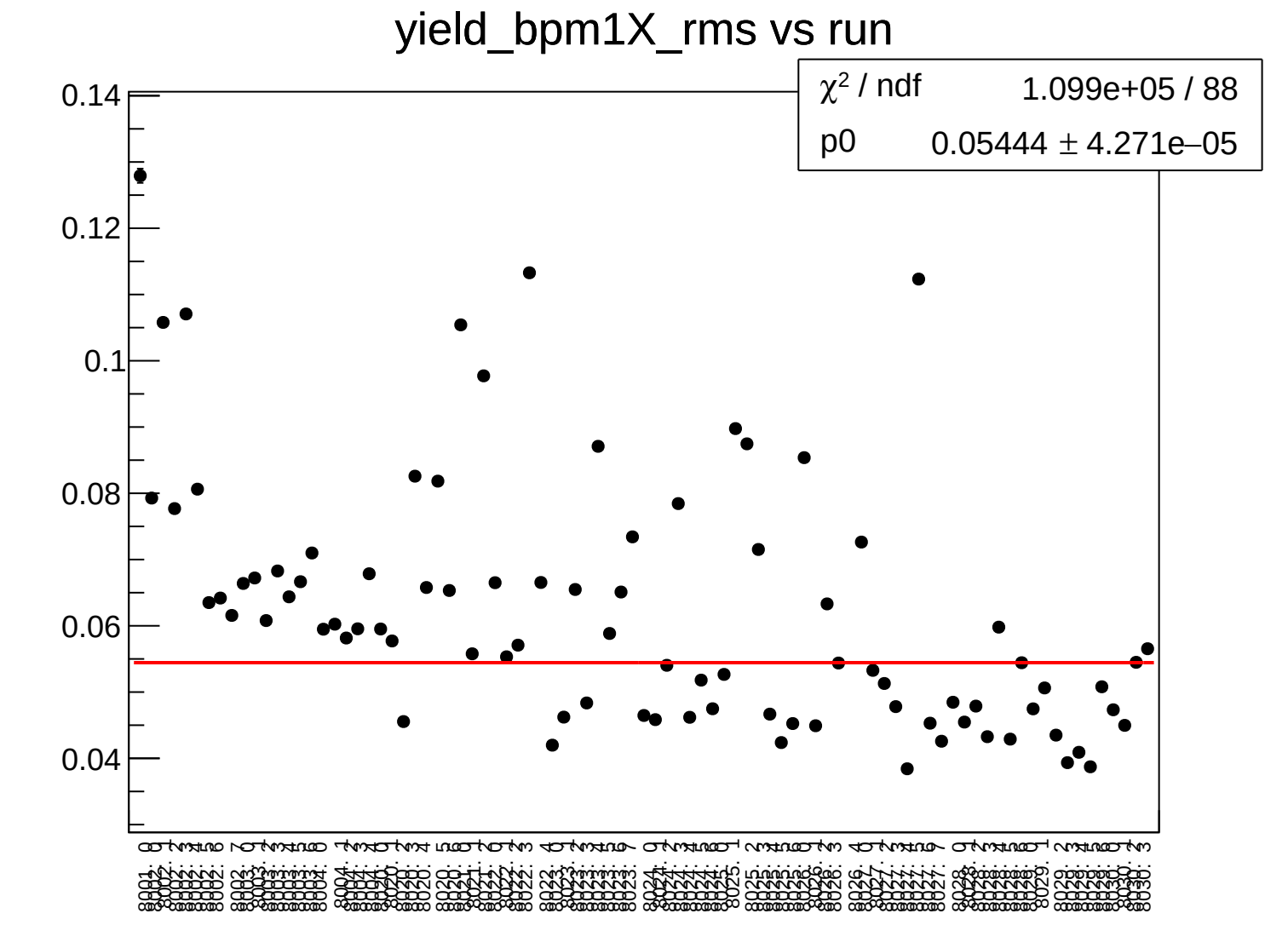

yield_bpm4ecY_mean vs run
χ² / ndf 1.048e+05 / 88
p0 −0.04276 ± 1.42e−05
pull
Entries 89
Mean −139.5
Std Dev 0

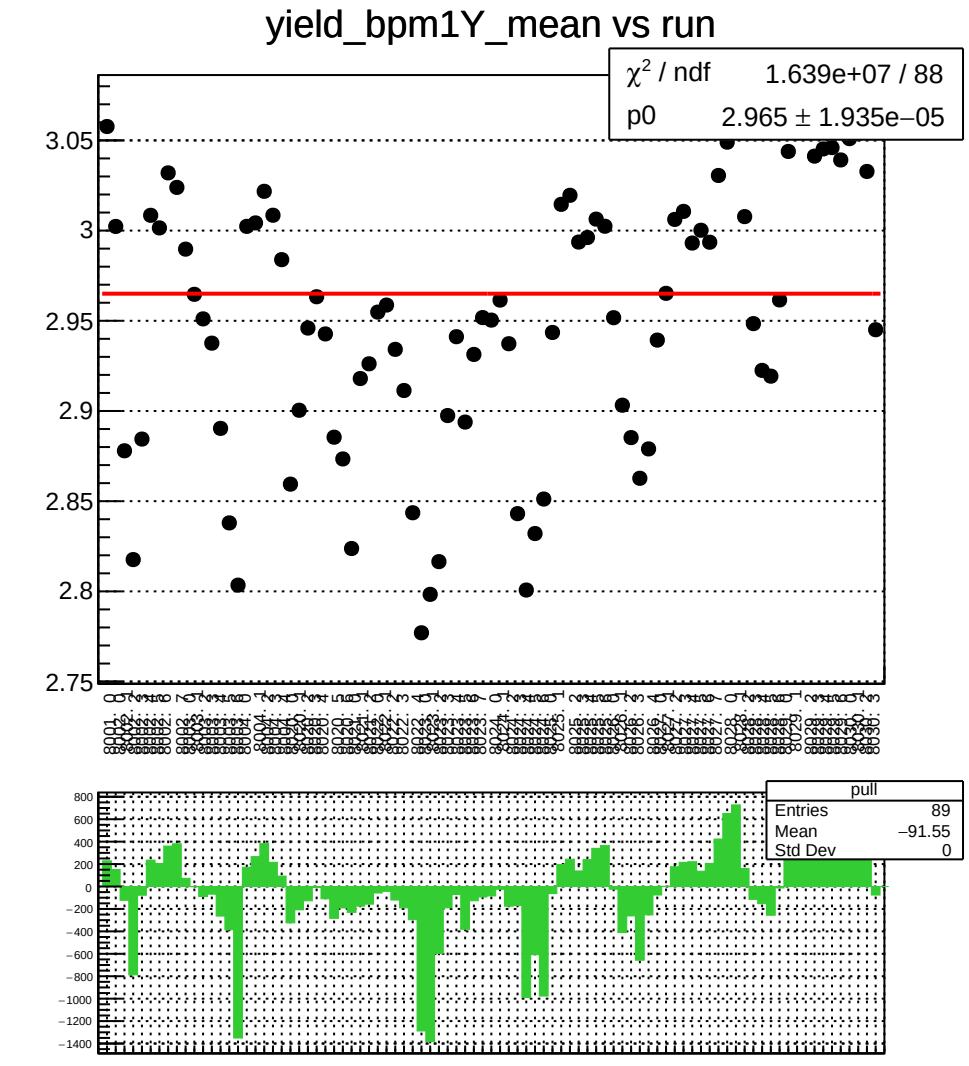

pull1D
Entries 89
Mean −2.808
Std Dev 4.897

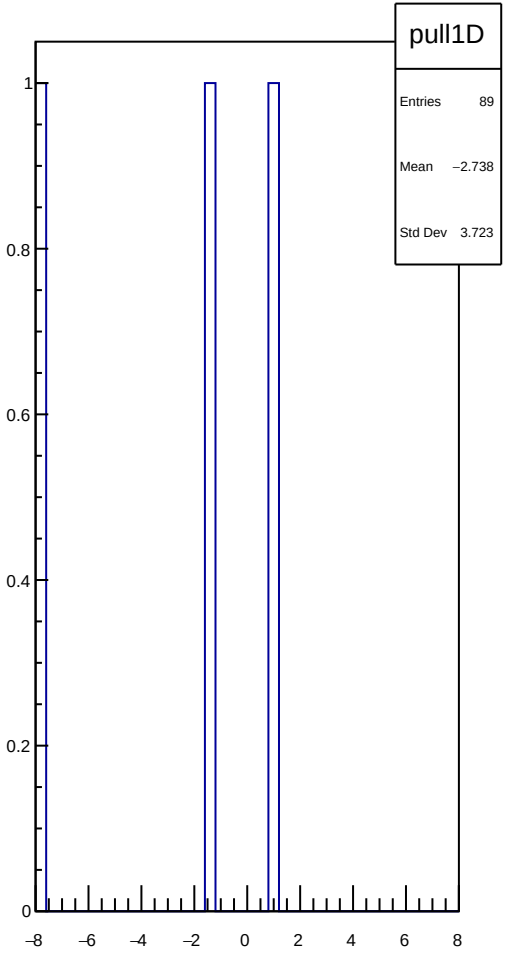

yield_bpm4ecY_rms vs run
χ² / ndf 4.526e+04 / 88
p0 0.01305 ± 1.004e−05
0.035
0.03
0.025
0.02
0.015
0.01

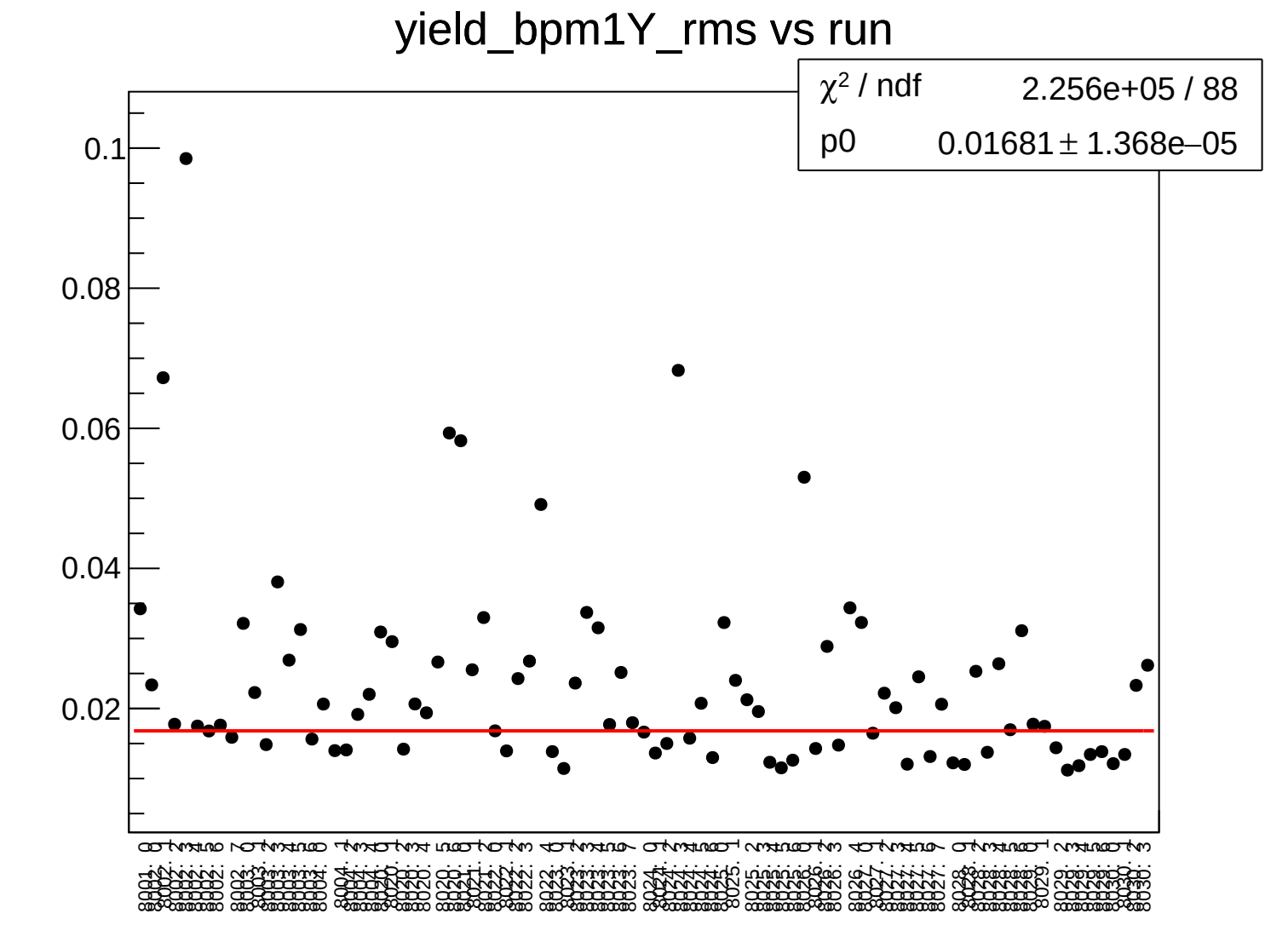

yield_bpm1X_mean vs run
χ² / ndf 1.784e+08 / 88
p0 −2.929 ± 6.04e−05
−1
−1.5
−2
−2.5
−3
−3.5
pull
Entries 89
Mean −130
Std Dev 0
4000
3000
2000
1000
0
−1000

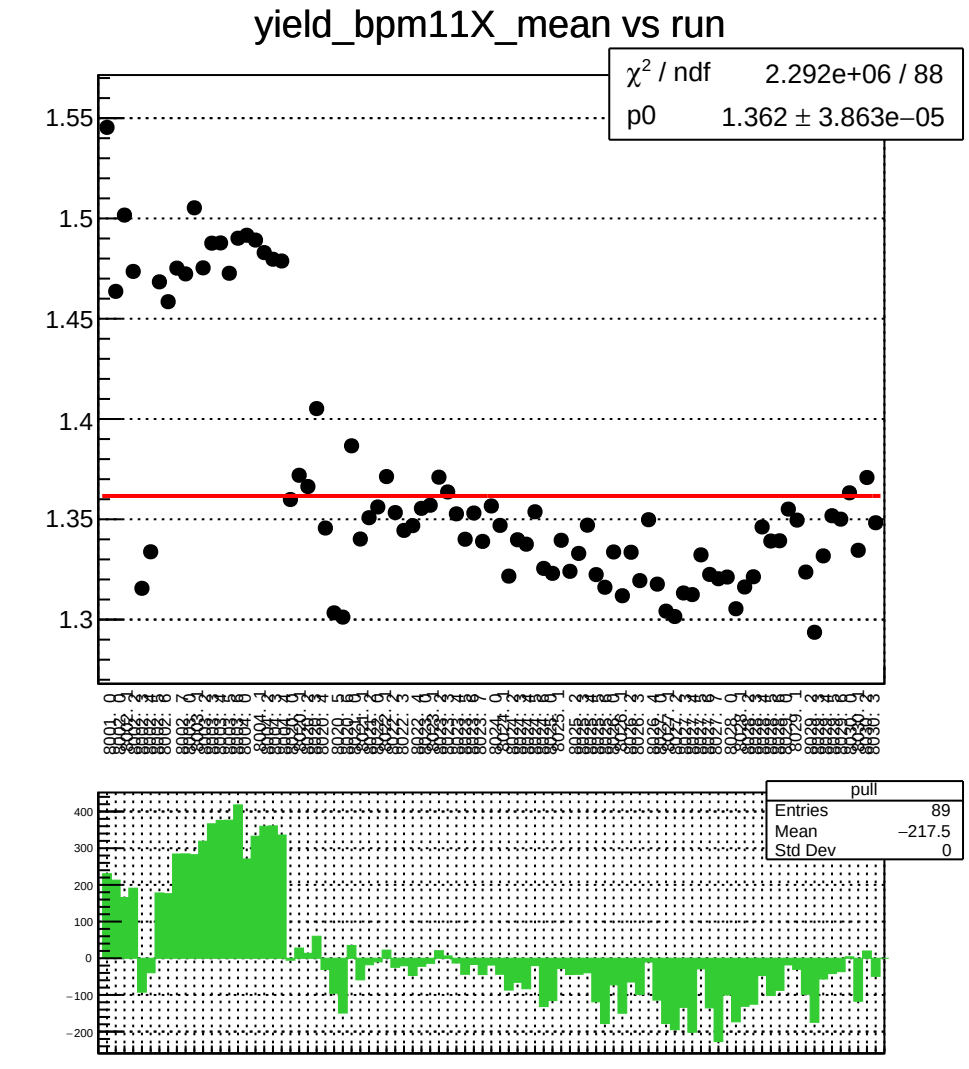

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

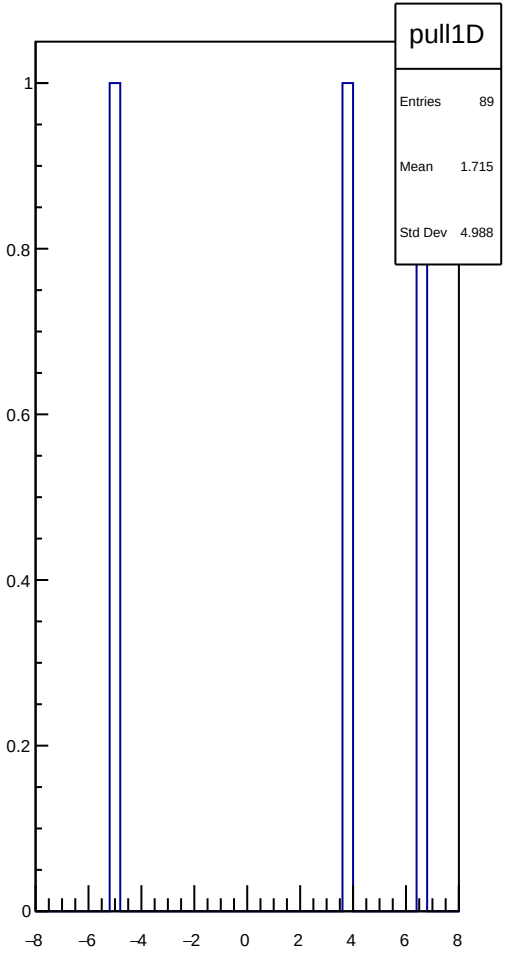

yield_bpm1X_rms vs run
χ² / ndf 1.099e+05 / 88
p0 0.05444 ± 4.271e–05
0.14
0.12
0.1
0.08
0.06
0.04

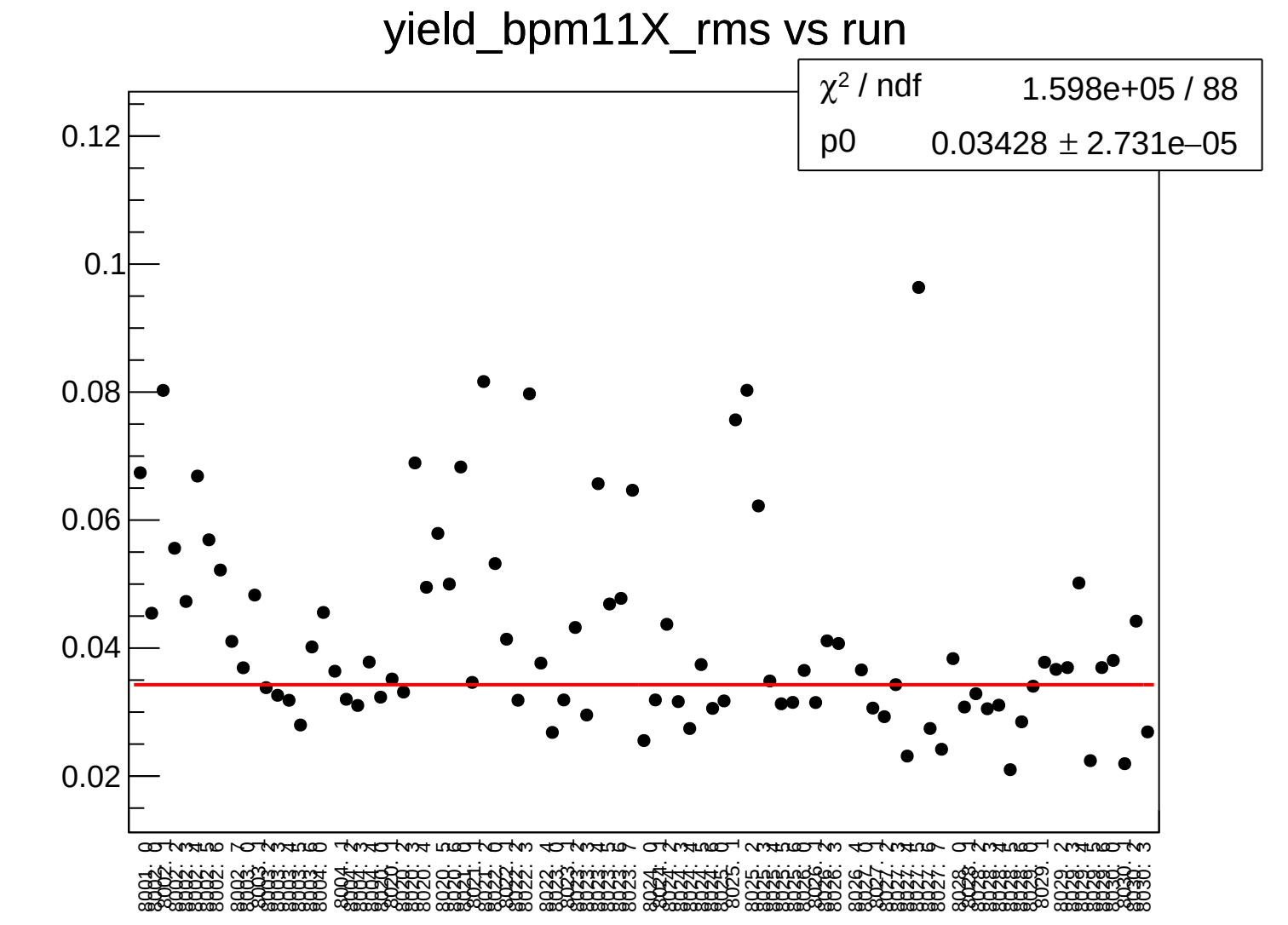

yield_bpm1Y_mean vs run
χ² / ndf 1.639e+07 / 88
p0 2.965 ± 1.935e−05
3.05
3
2.95
2.9
2.85
2.8
2.75
pull
Entries 89
Mean −91.55
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800
−1000
−1200
−1400

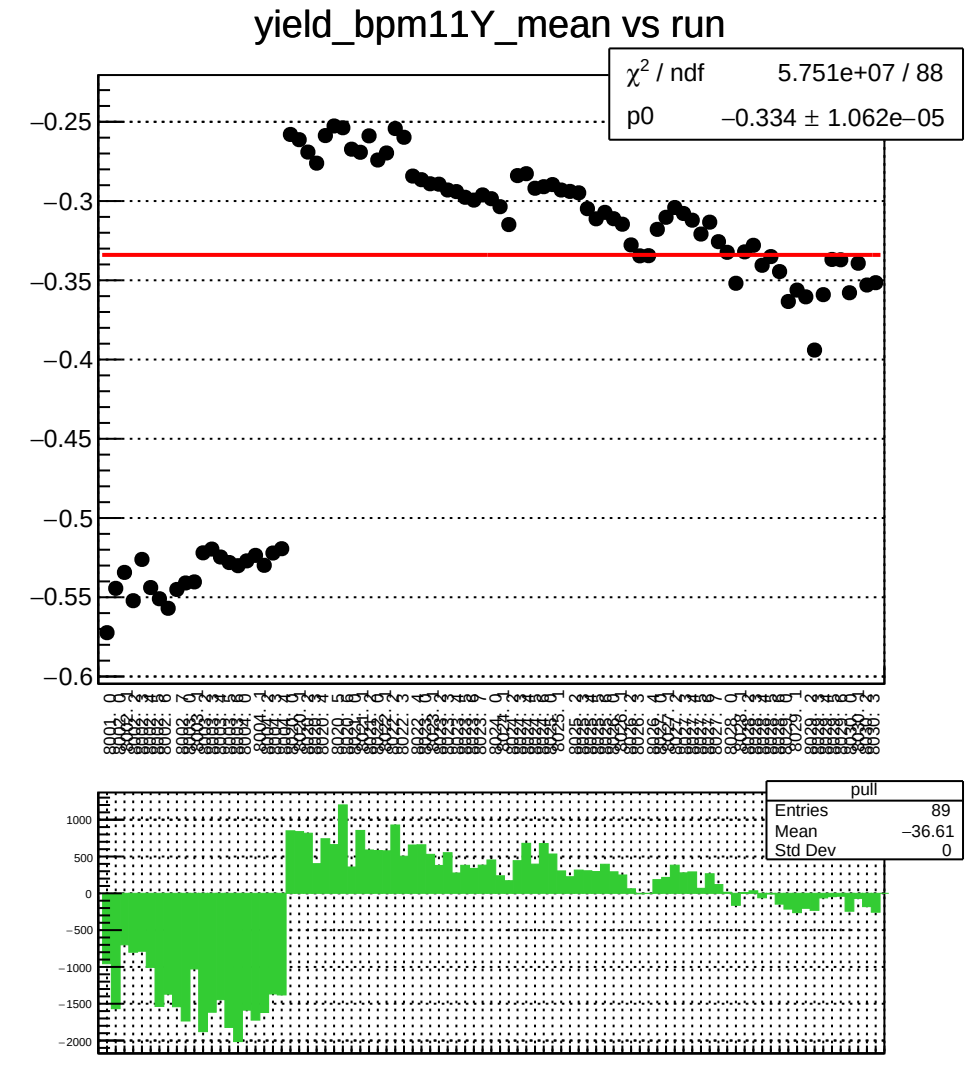

pull1D
Entries 89
Mean −2.738
Std Dev 3.723
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

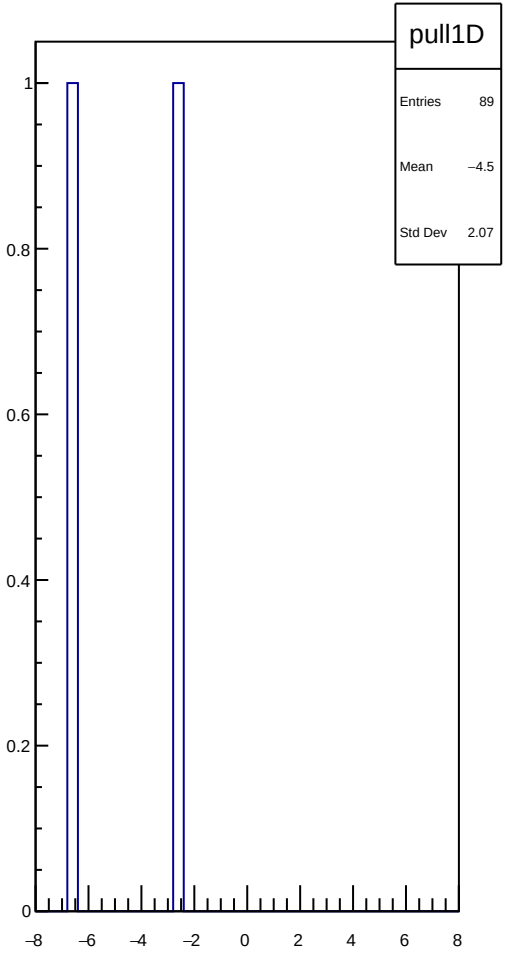

yield_bpm1Y_rms vs run
χ² / ndf 2.256e+05 / 88
p0 0.01681 ± 1.368e–05
0.1
0.08
0.06
0.04
0.02

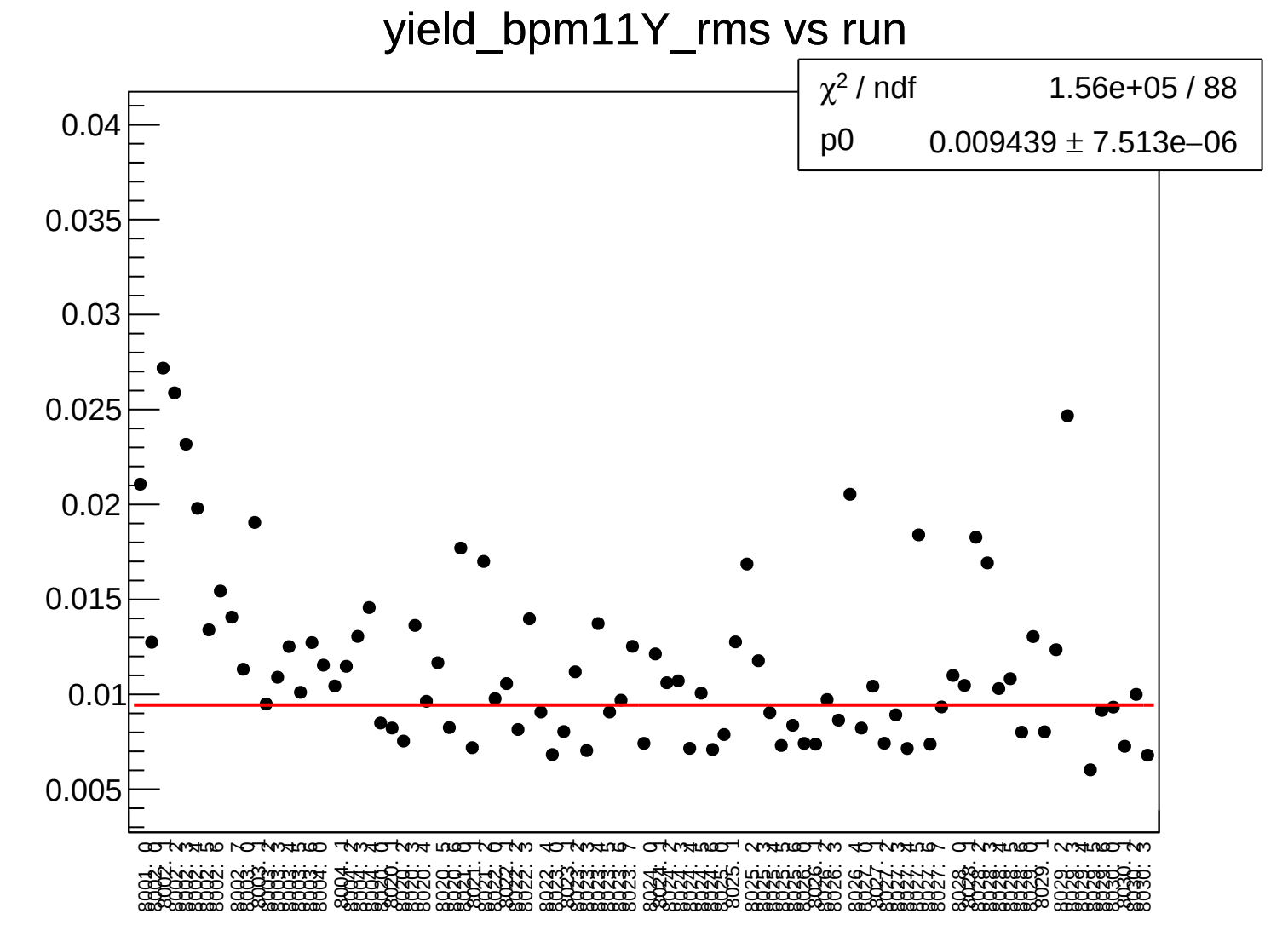

yield_bpm11X_mean vs run
χ² / ndf 2.292e+06 / 88
p0 1.362 ± 3.863e−05
1.55
1.5
1.45
1.4
1.35
1.3
pull
Entries 89
Mean −217.5
Std Dev 0
400
300
200
100
0
−100
−200

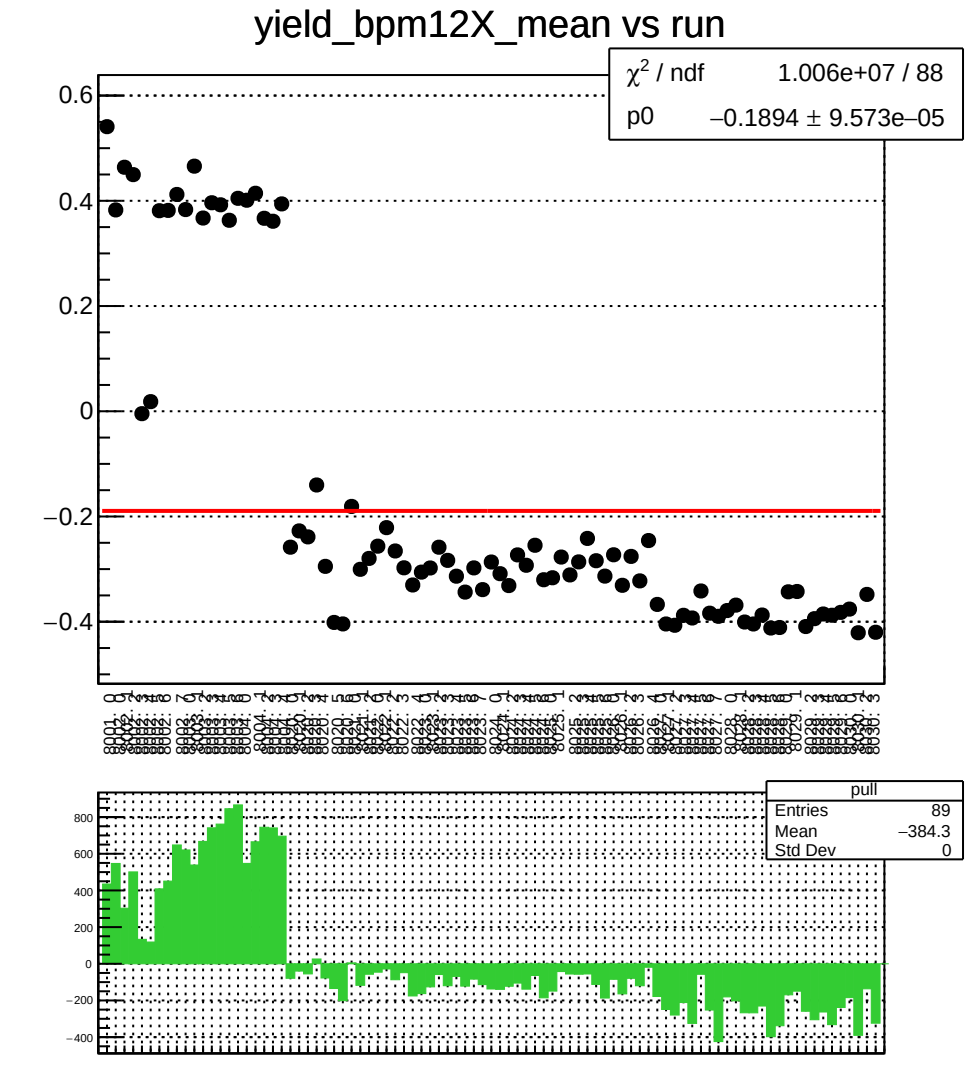

pull1D
Entries 89
Mean 1.715
Std Dev 4.988
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

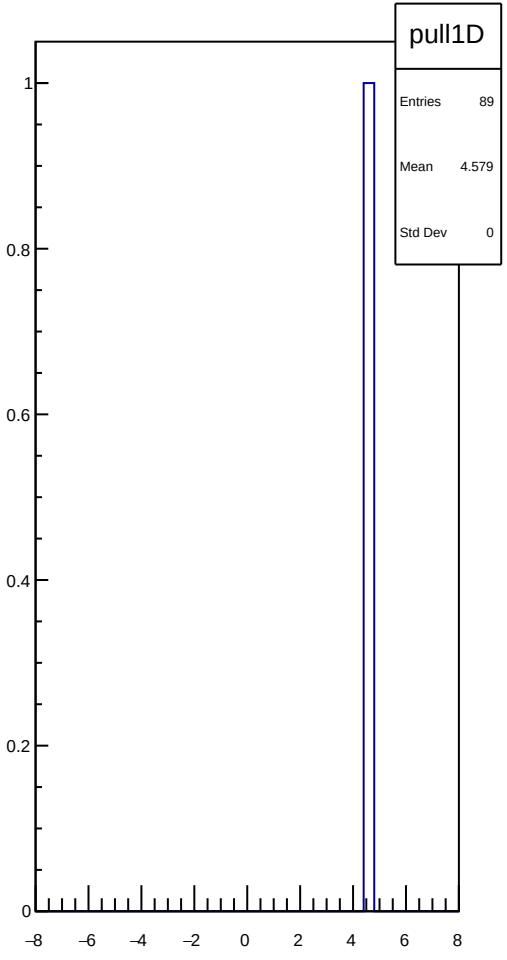

yield_bpm11X_rms vs run
χ² / ndf 1.598e+05 / 88
p0 0.03428 ± 2.731e−05
0.12
0.1
0.08
0.06
0.04
0.02

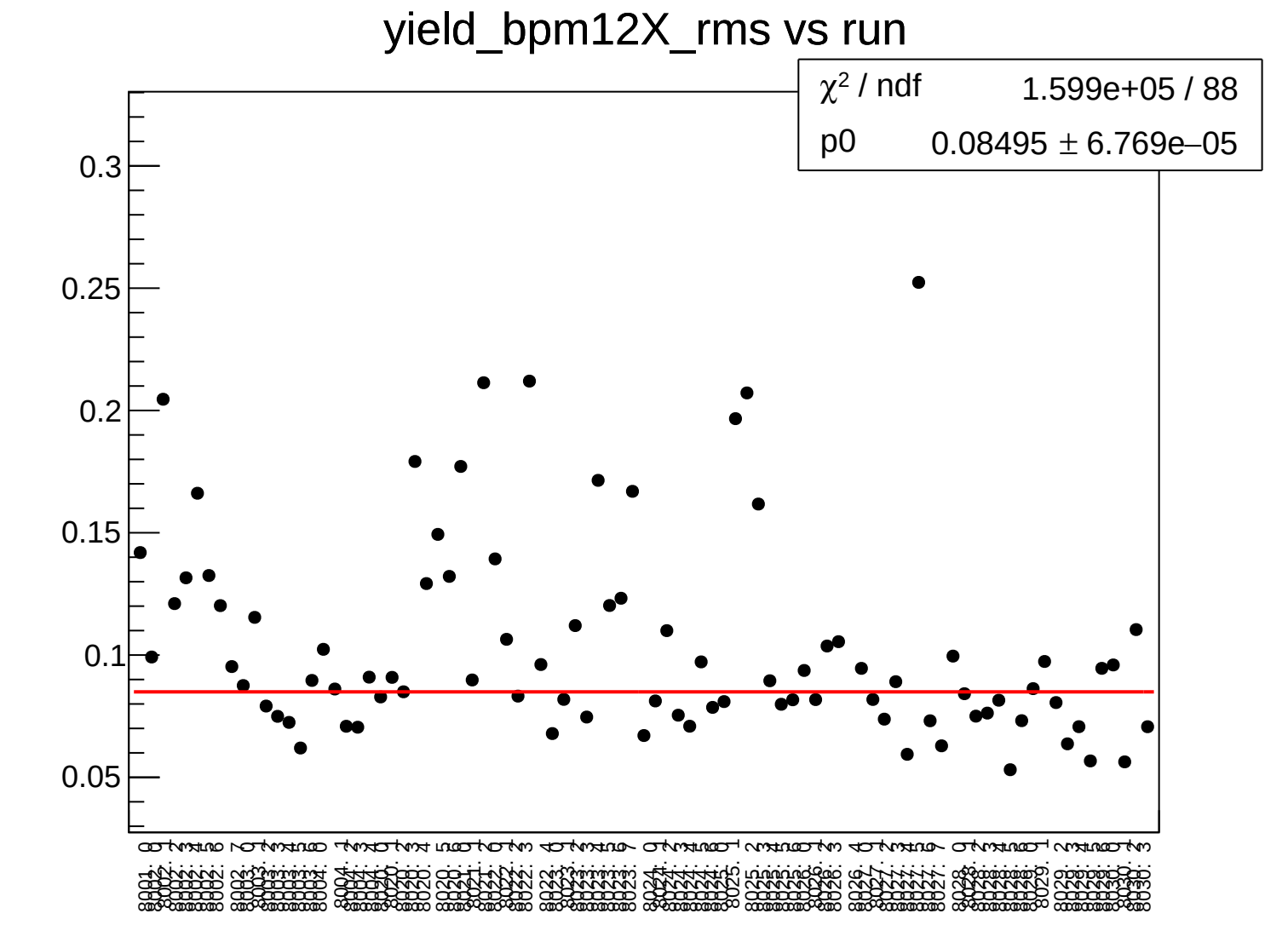

yield_bpm11Y_mean vs run
χ² / ndf 5.751e+07 / 88
p0 −0.334 ± 1.062e−05
−0.25
−0.3
−0.35
−0.4
−0.45
−0.5
−0.55
−0.6
pull
Entries 89
Mean −36.61
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000

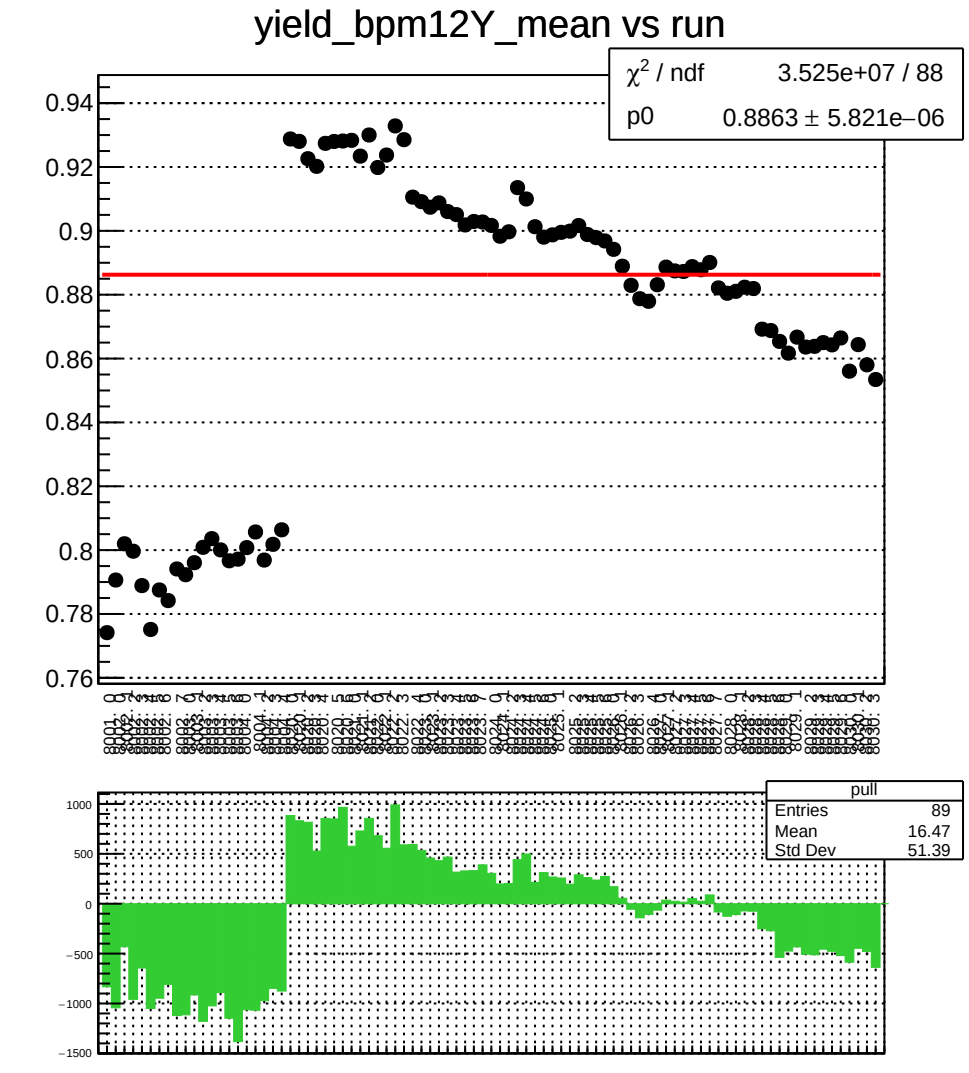

pull1D
Entries 89
Mean −4.5
Std Dev 2.07
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

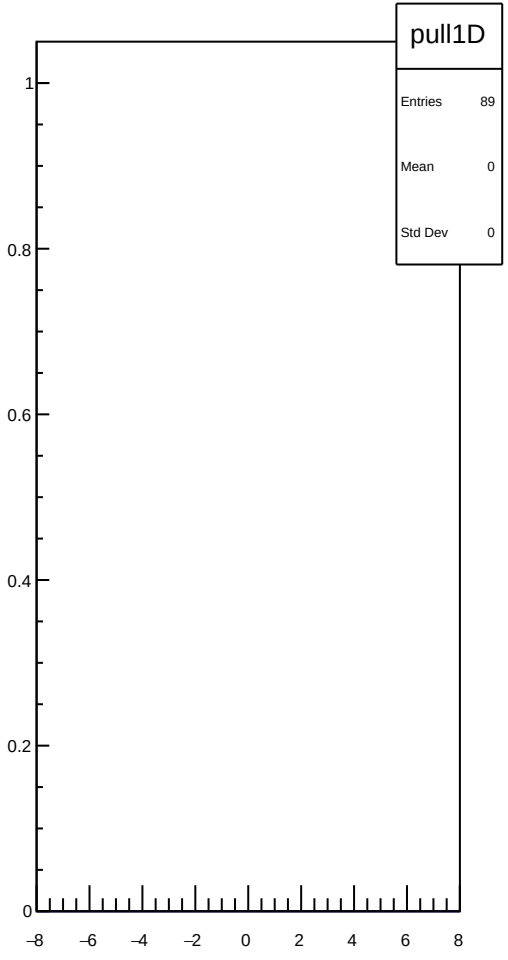

yield_bpm11Y_rms vs run
χ² / ndf 1.56e+05 / 88
p0 0.009439 ± 7.513e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

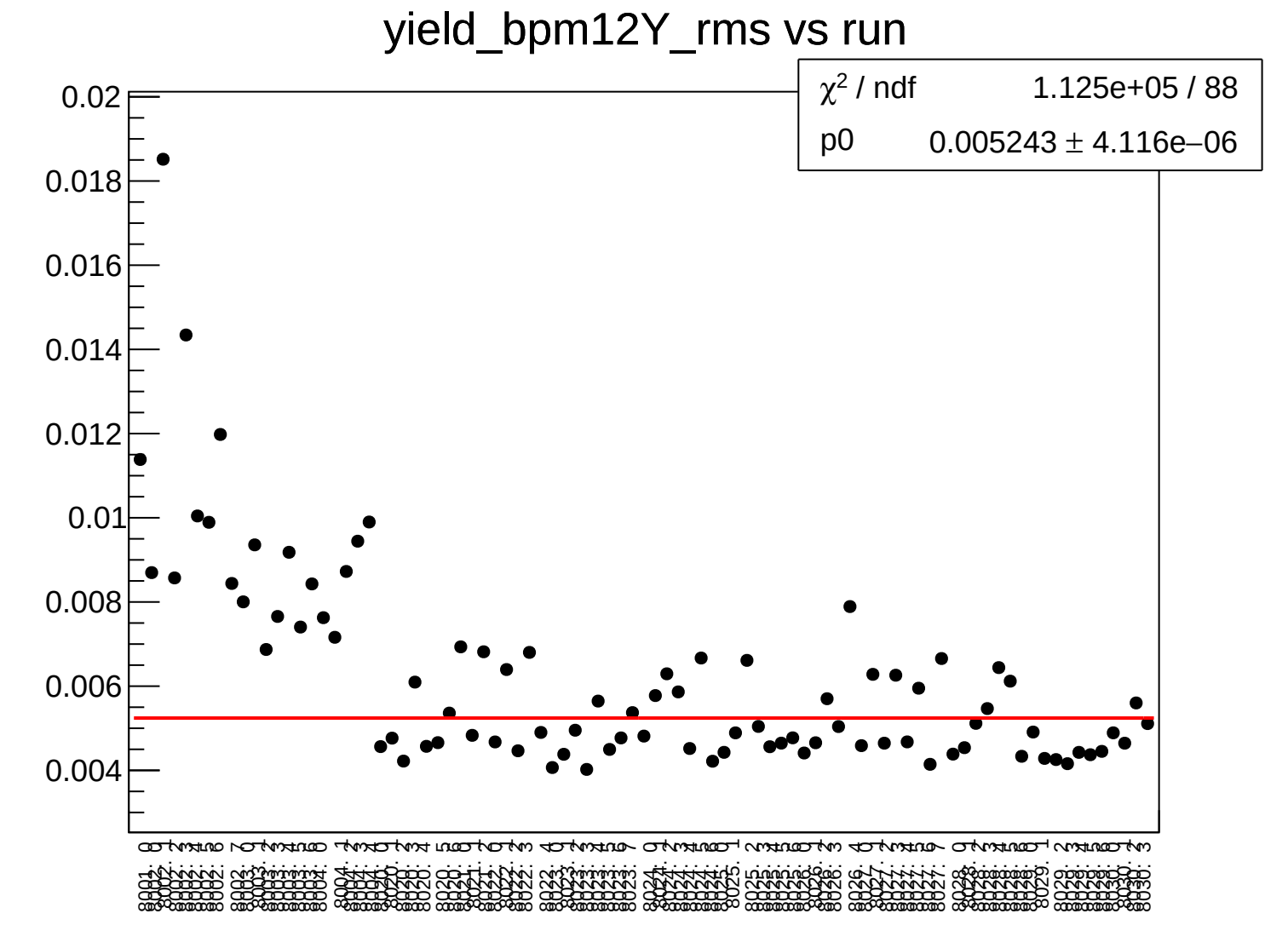

yield_bpm12X_mean vs run
χ² / ndf 1.006e+07 / 88
p0 −0.1894 ± 9.573e−05
pull
Entries 89
Mean −384.3
Std Dev 0

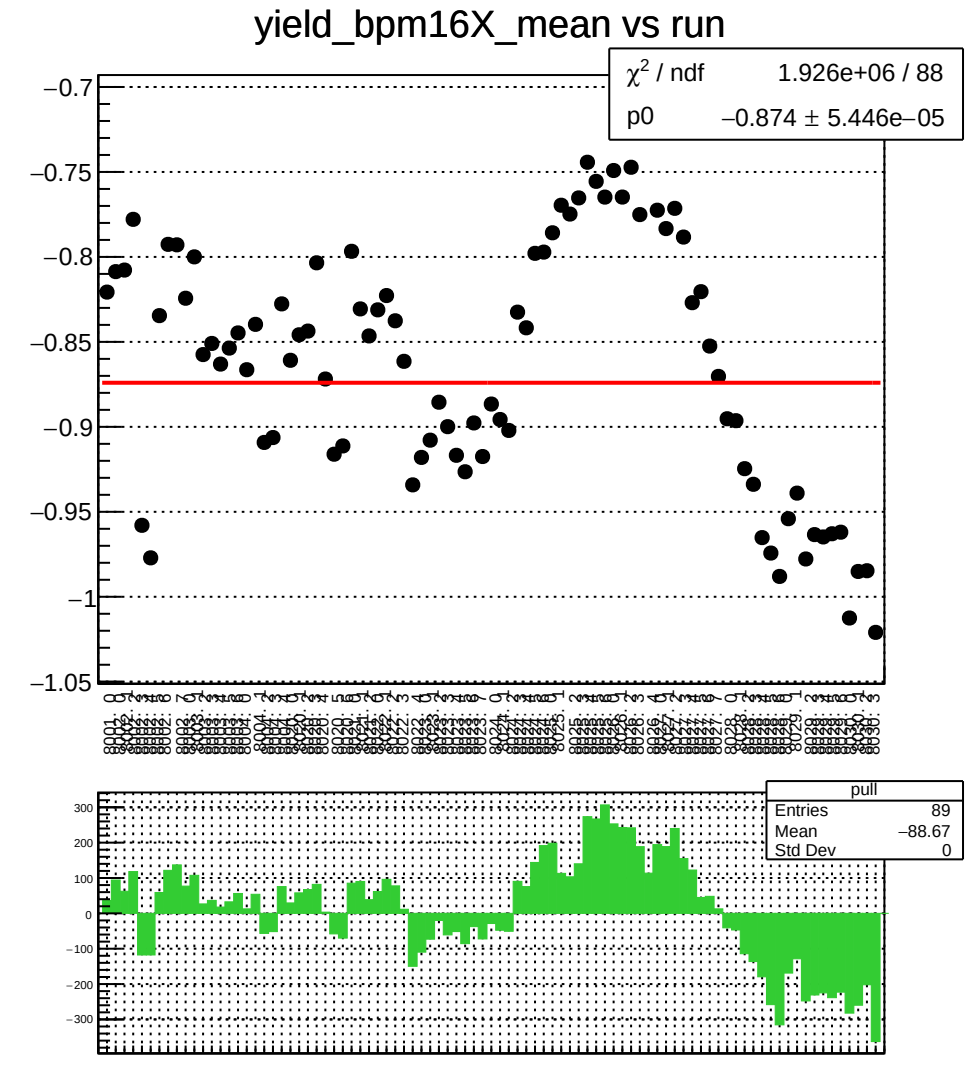

pull1D
Entries 89
Mean 4.579
Std Dev 0

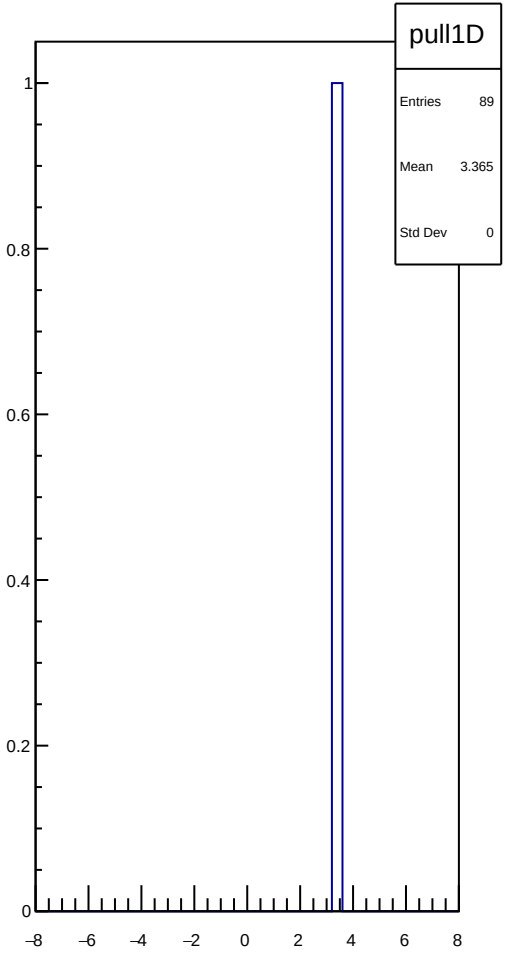

yield_bpm12X_rms vs run
χ² / ndf 1.599e+05 / 88
p0 0.08495 ± 6.769e–05
0.3
0.25
0.2
0.15
0.1
0.05

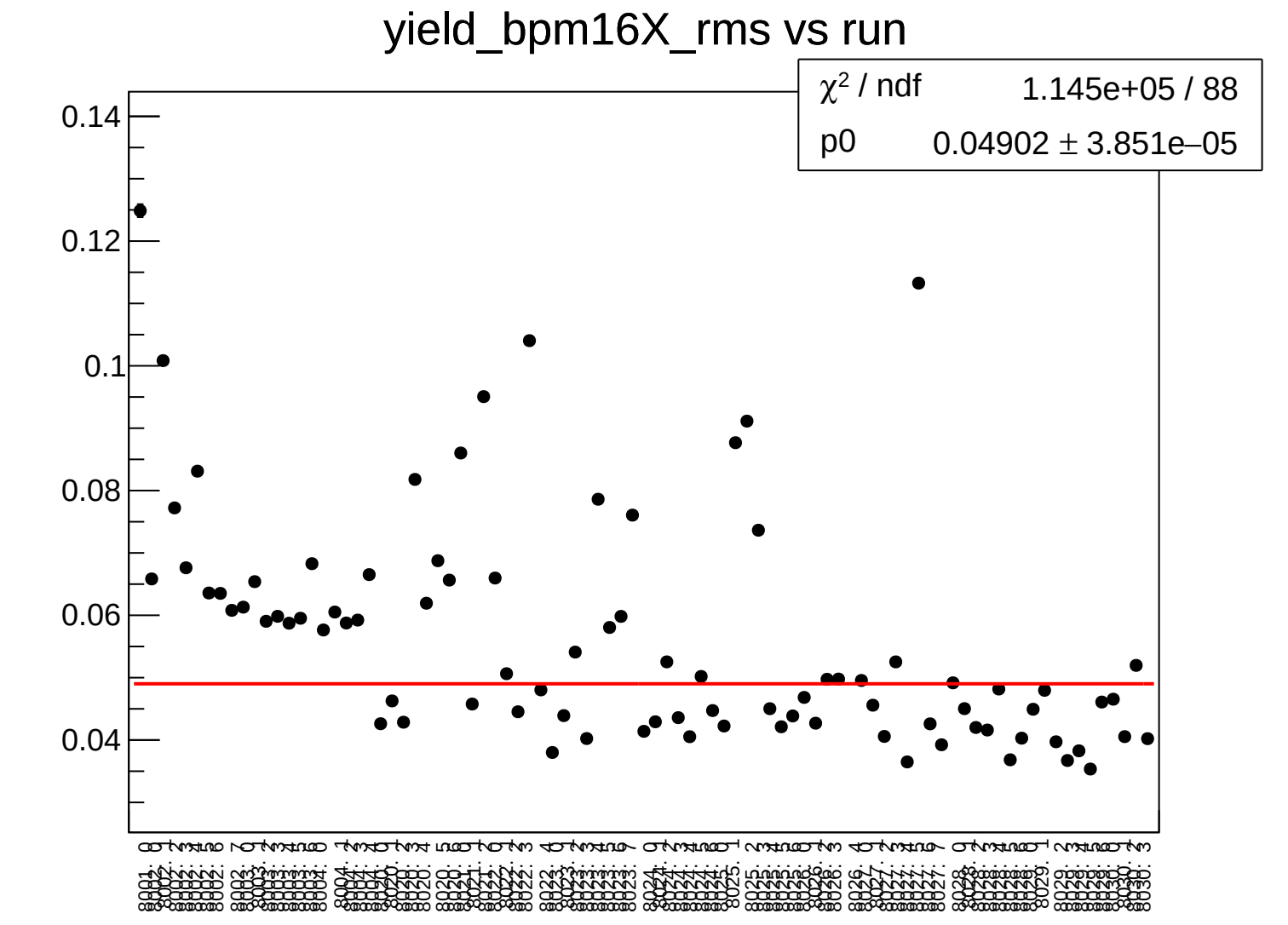

yield_bpm12Y_mean vs run
χ² / ndf 3.525e+07 / 88
p0 0.8863 ± 5.821e−06
pull
Entries 89
Mean 16.47
Std Dev 51.39

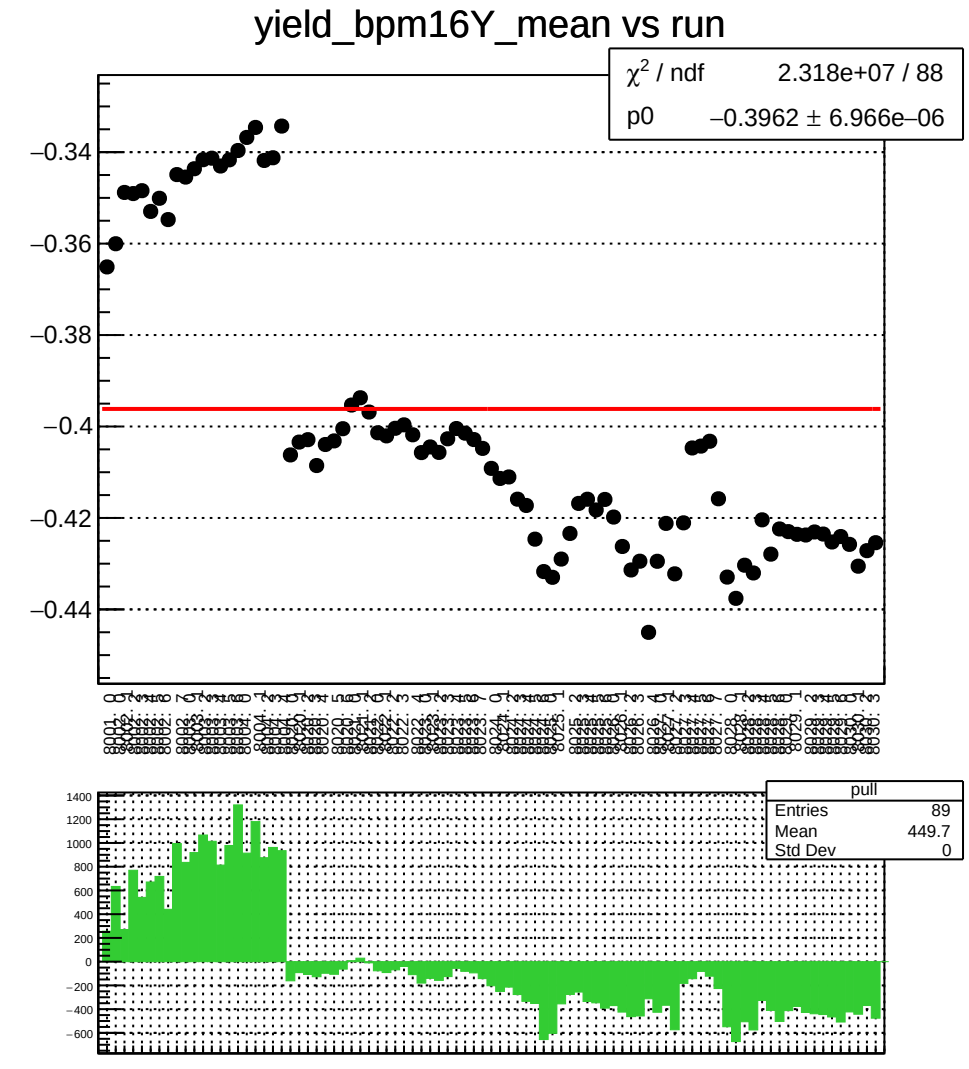

pull1D
Entries 89
Mean 0
Std Dev 0

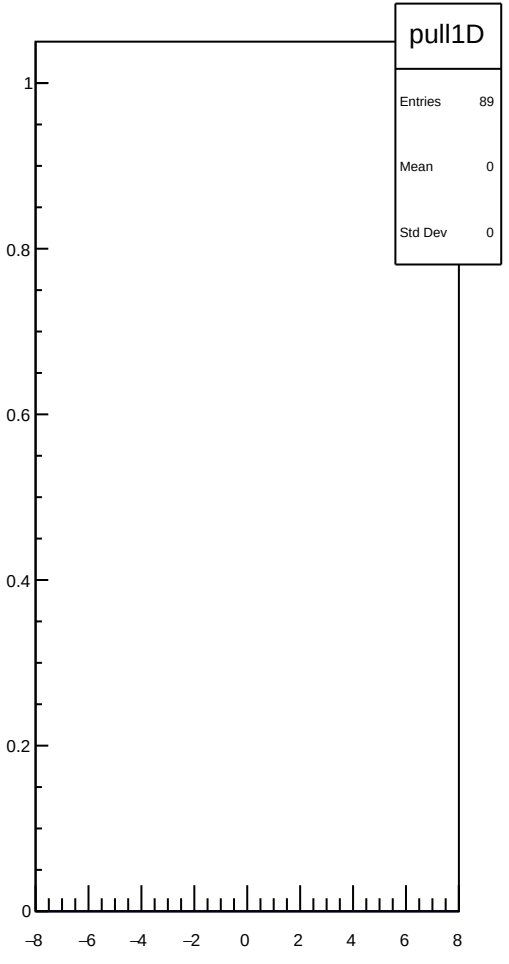

yield_bpm12Y_rms vs run
χ² / ndf 1.125e+05 / 88
p0 0.005243 ± 4.116e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

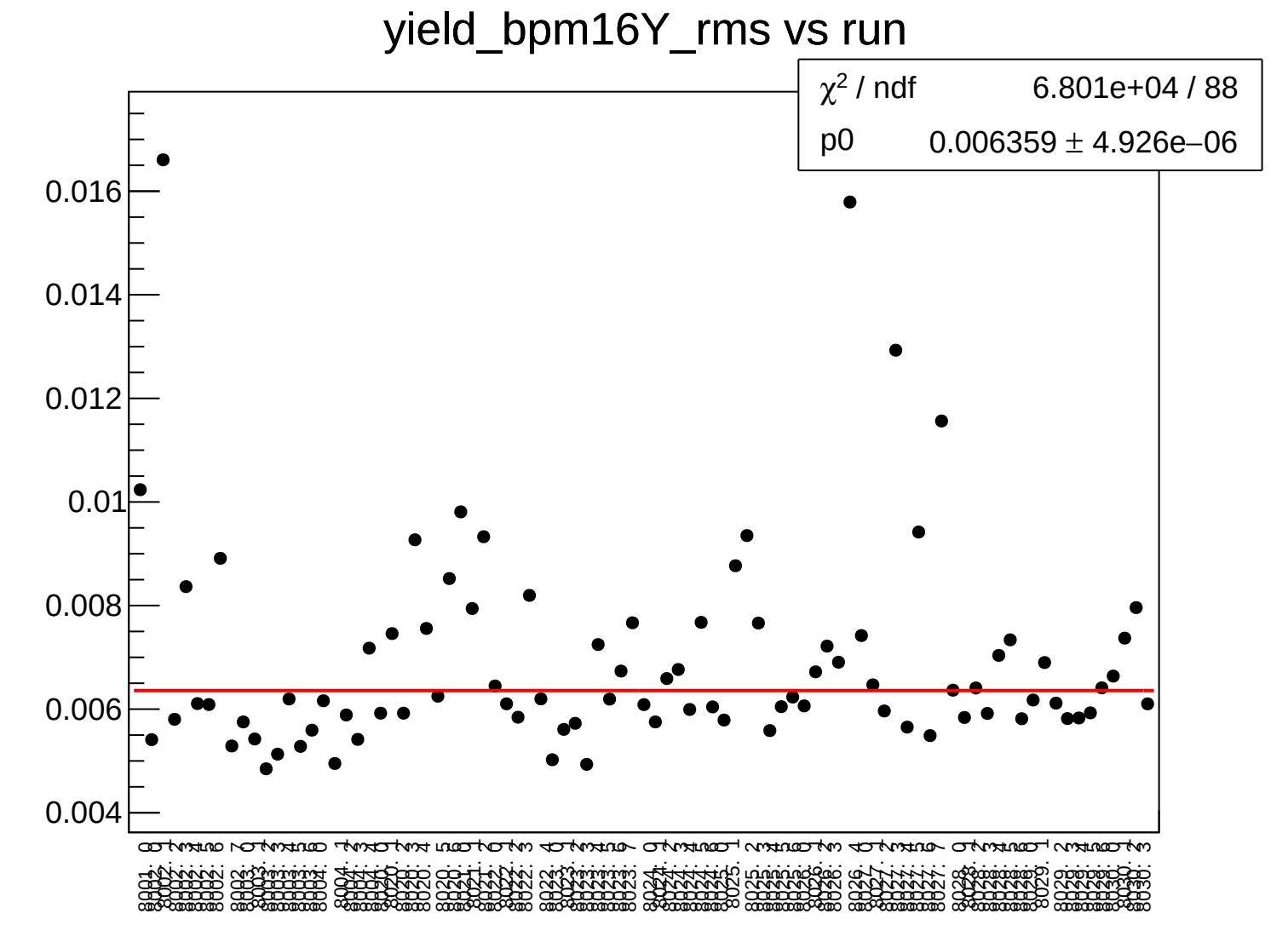

yield_bpm16X_mean vs run
χ² / ndf 1.926e+06 / 88
p0 −0.874 ± 5.446e−05
pull
Entries 89
Mean −88.67
Std Dev 0

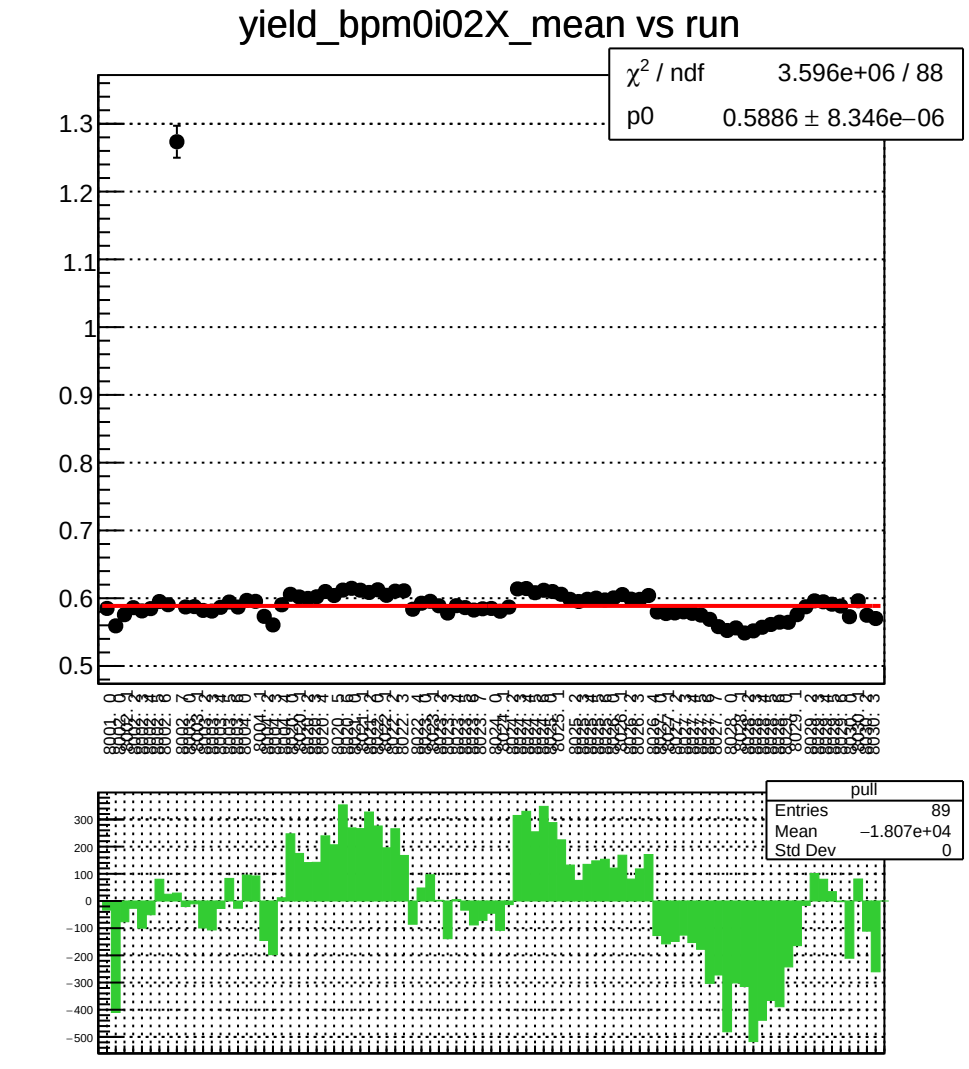

pull1D
Entries 89
Mean 3.365
Std Dev 0

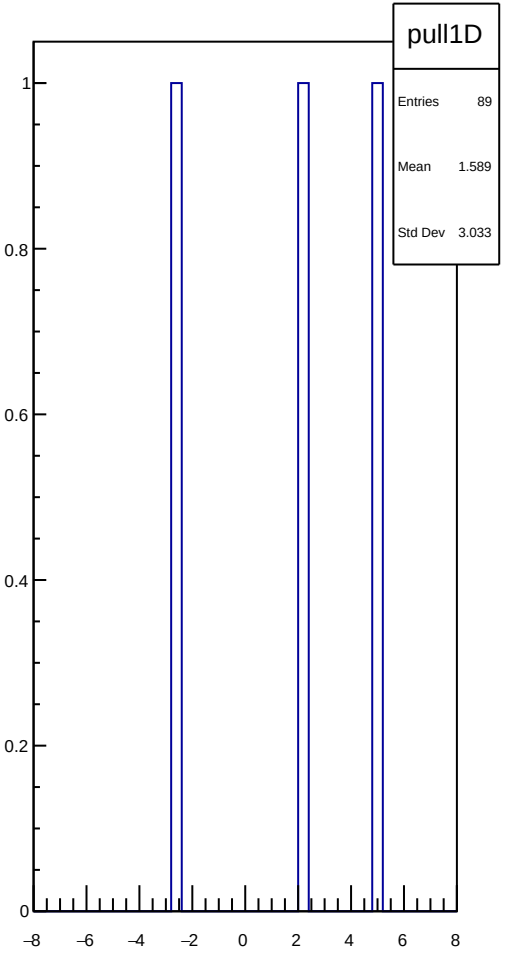

yield_bpm16X_rms vs run
χ² / ndf 1.145e+05 / 88
p0 0.04902 ± 3.851e–05
0.14
0.12
0.1
0.08
0.06
0.04

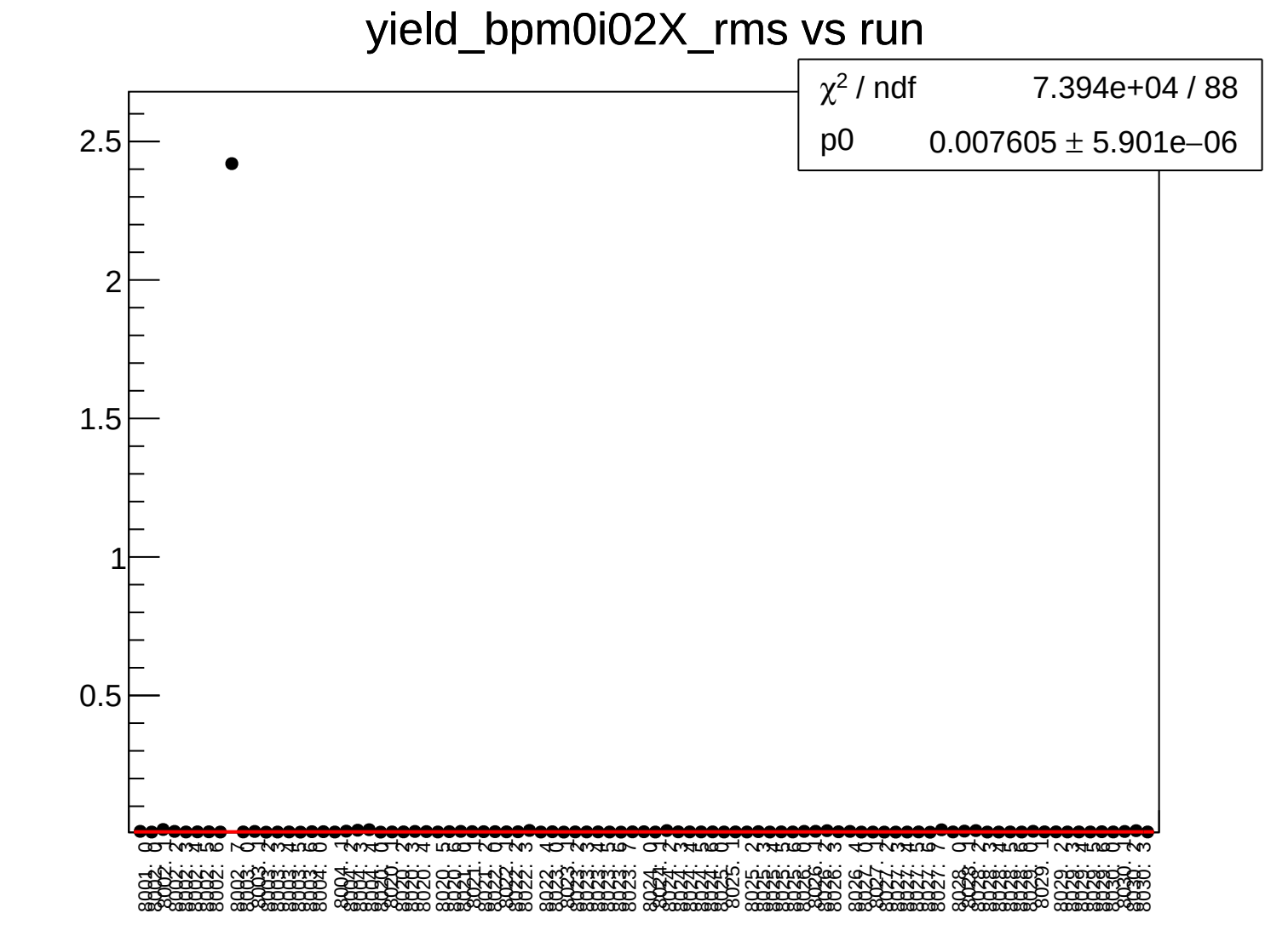

yield_bpm16Y_mean vs run
χ² / ndf 2.318e+07 / 88
p0 −0.3962 ± 6.966e−06
−0.34
−0.36
−0.38
−0.4
−0.42
−0.44
pull
Entries 89
Mean 449.7
Std Dev 0
1400
1200
1000
800
600
400
200
0
−200
−400
−600

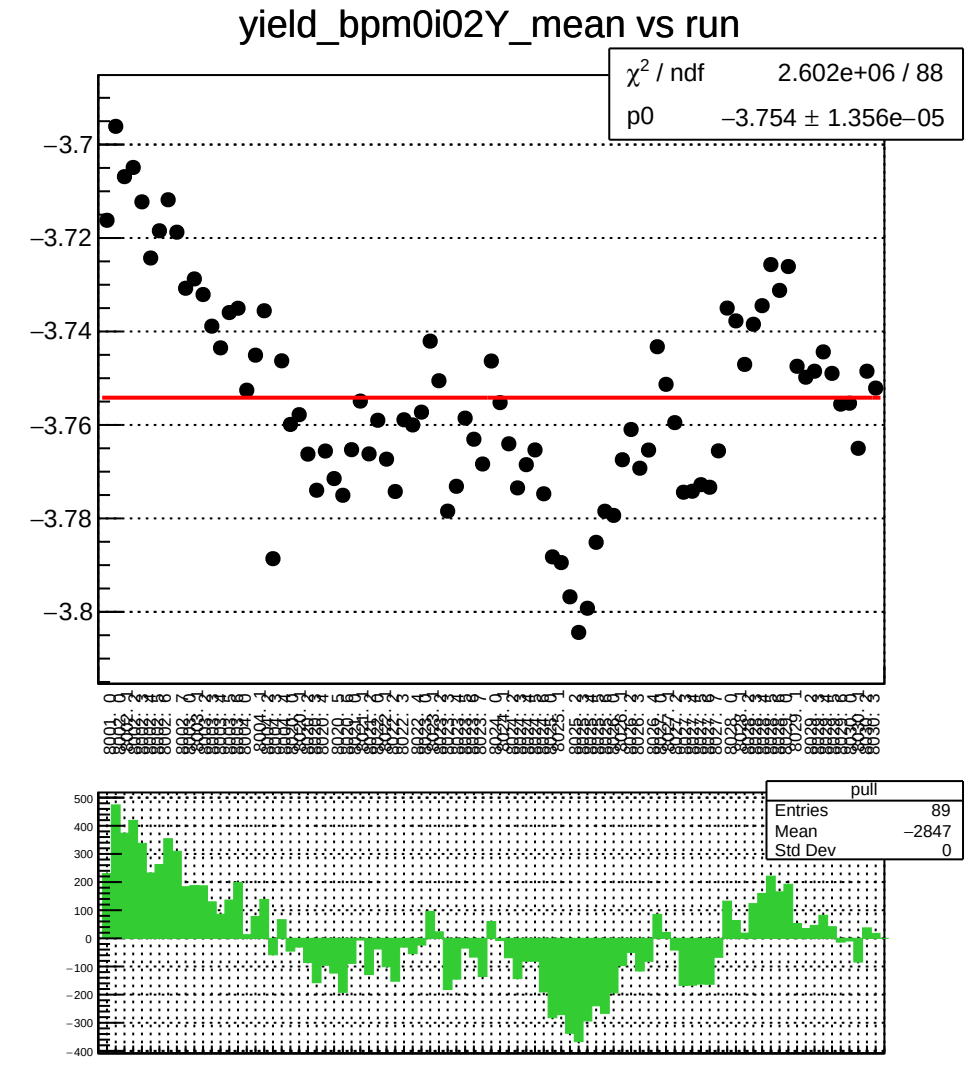

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

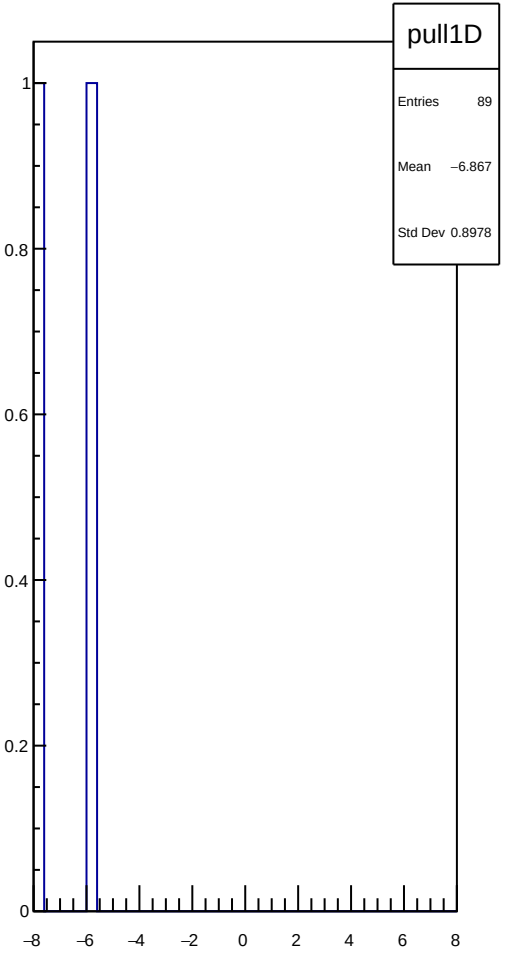

yield_bpm16Y_rms vs run
χ^2 / ndf 6.801e+04 / 88
p0 0.006359 ± 4.926e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004

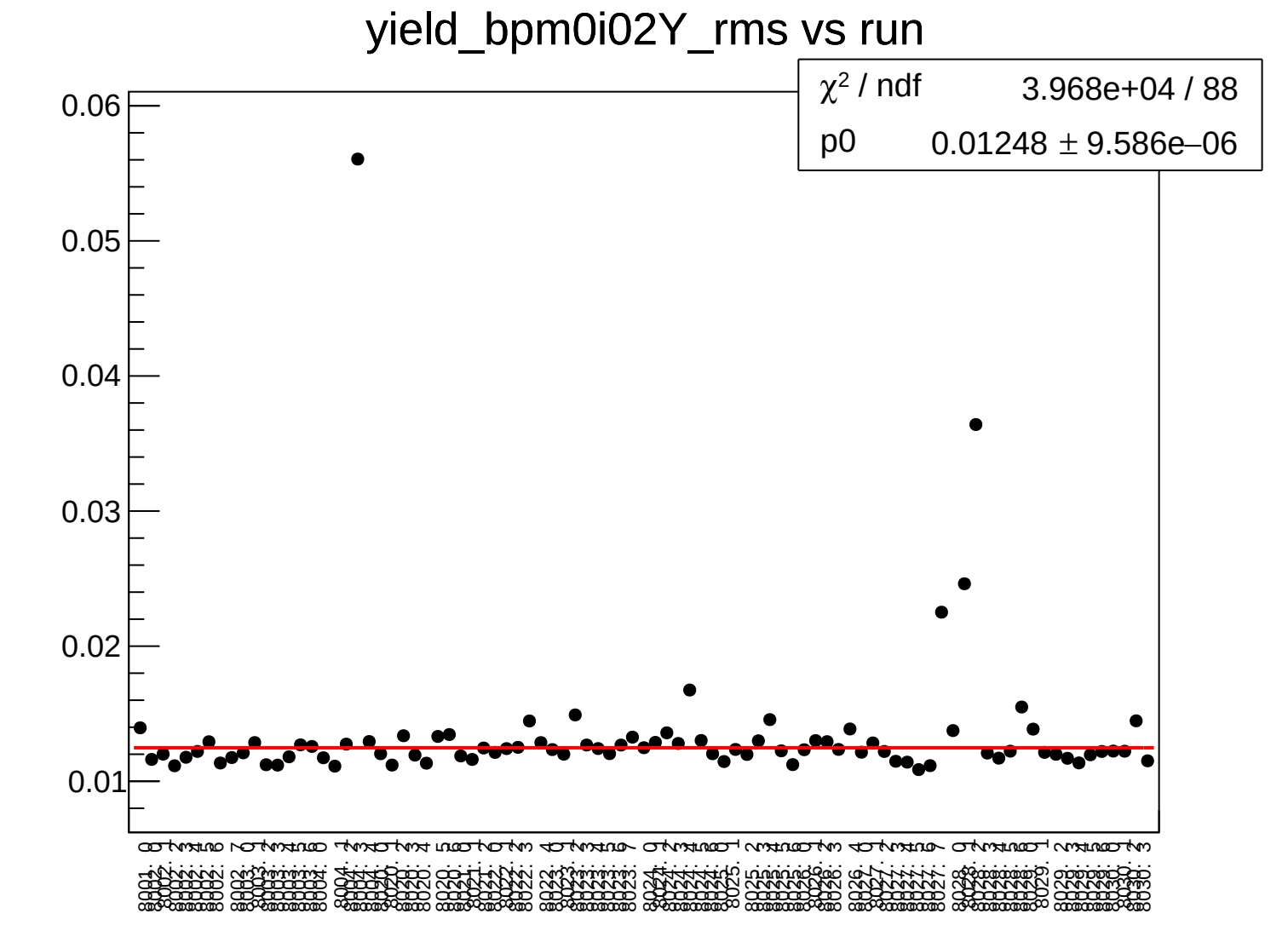

yield_bpm0i02X_mean vs run
χ² / ndf 3.596e+06 / 88
p0 0.5886 ± 8.346e−06
pull
Entries 89
Mean −1.807e+04
Std Dev 0

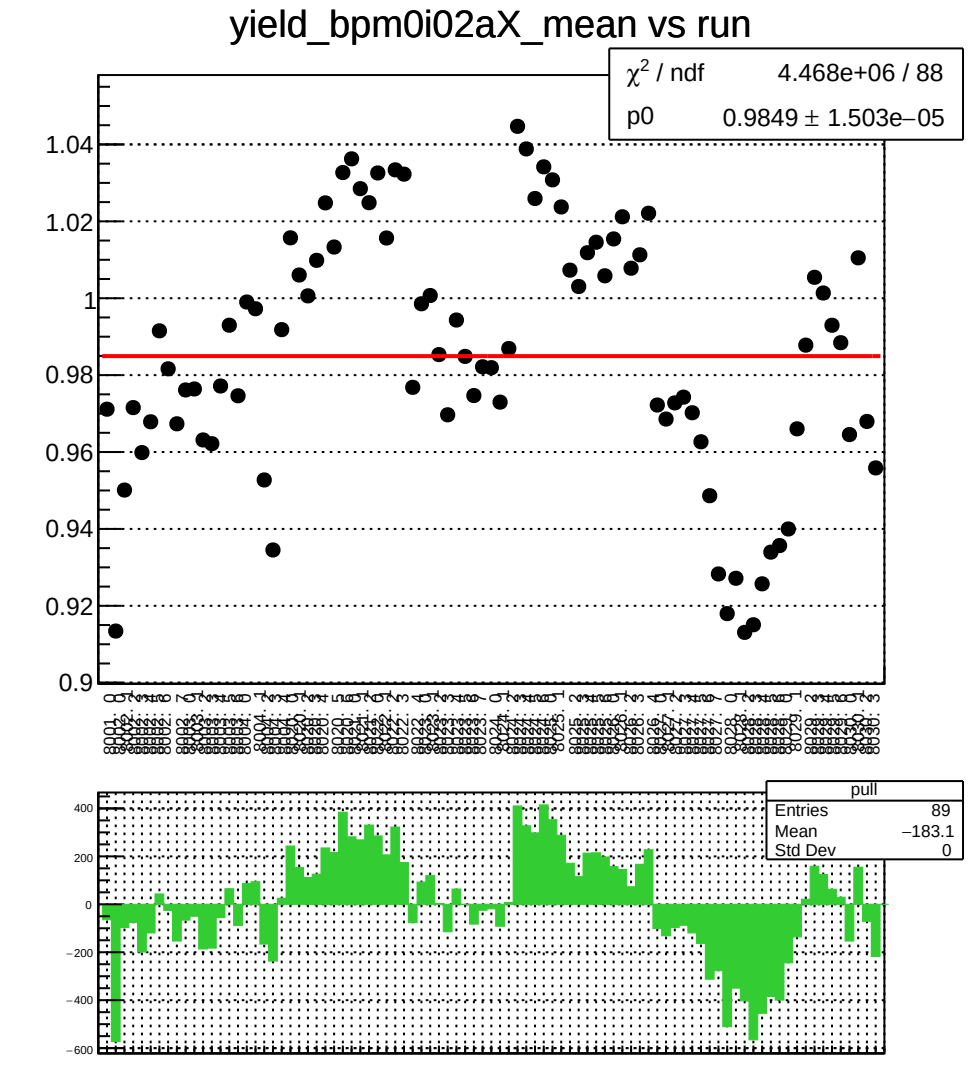

pull1D
Entries 89
Mean 1.589
Std Dev 3.033

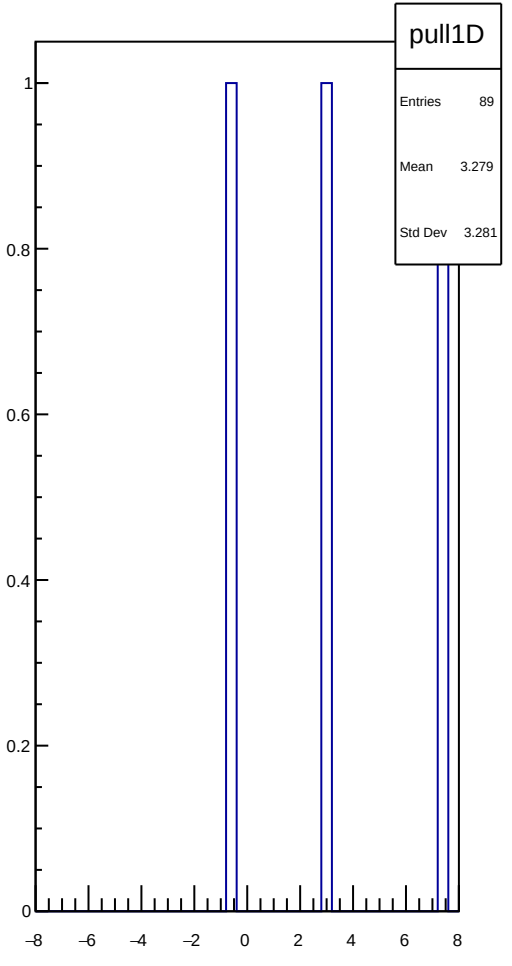

yield_bpm0i02X_rms vs run
χ² / ndf 7.394e+04 / 88
p0 0.007605 ± 5.901e−06
2.5
2
1.5
1
0.5

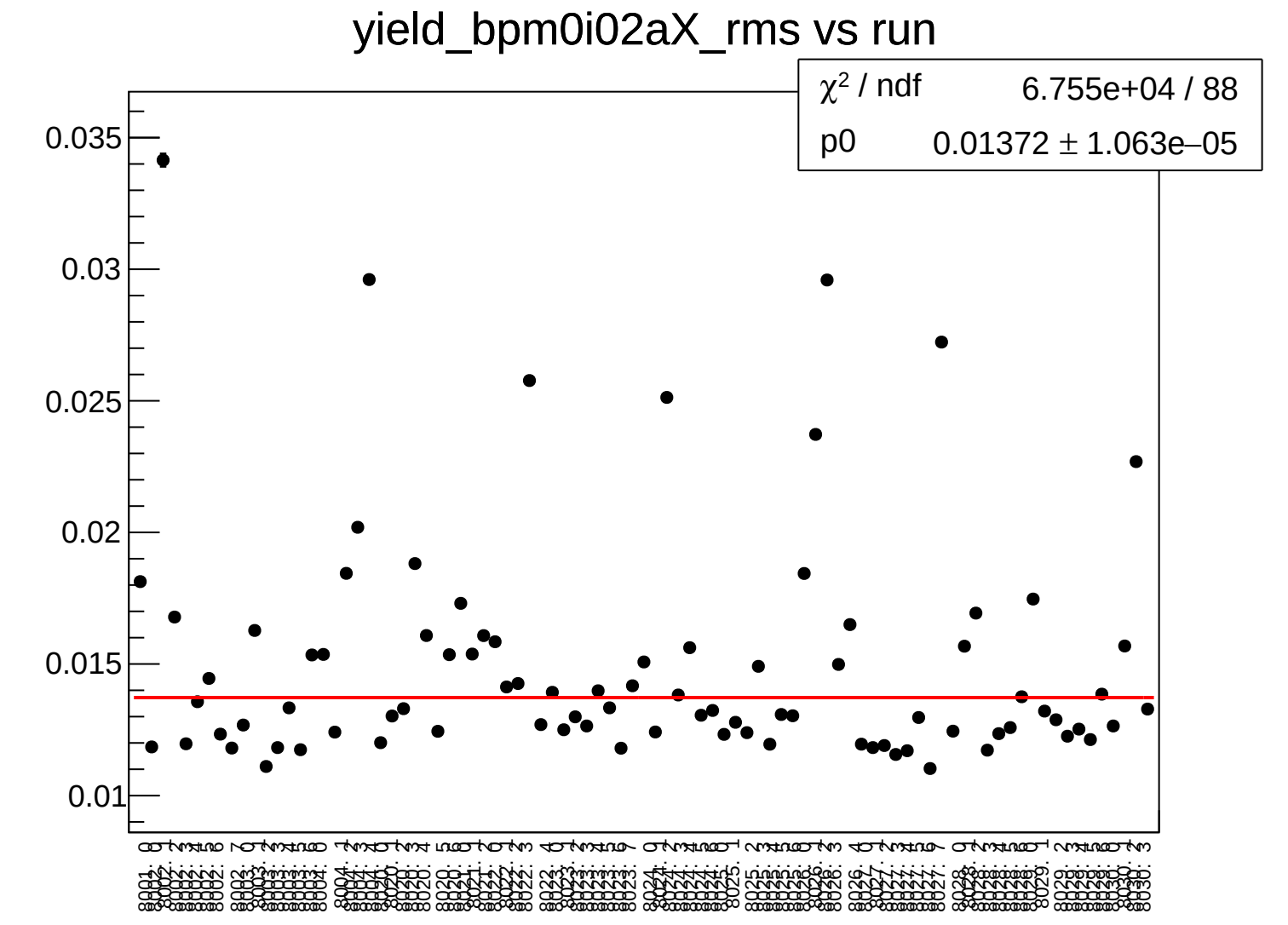

yield_bpm0i02Y_mean vs run
χ² / ndf 2.602e+06 / 88
p0 −3.754 ± 1.356e−05
−3.7
−3.72
−3.74
−3.76
−3.78
−3.8
pull
Entries 89
Mean −2847
Std Dev 0
500
400
300
200
100
0
−100
−200
−300
−400

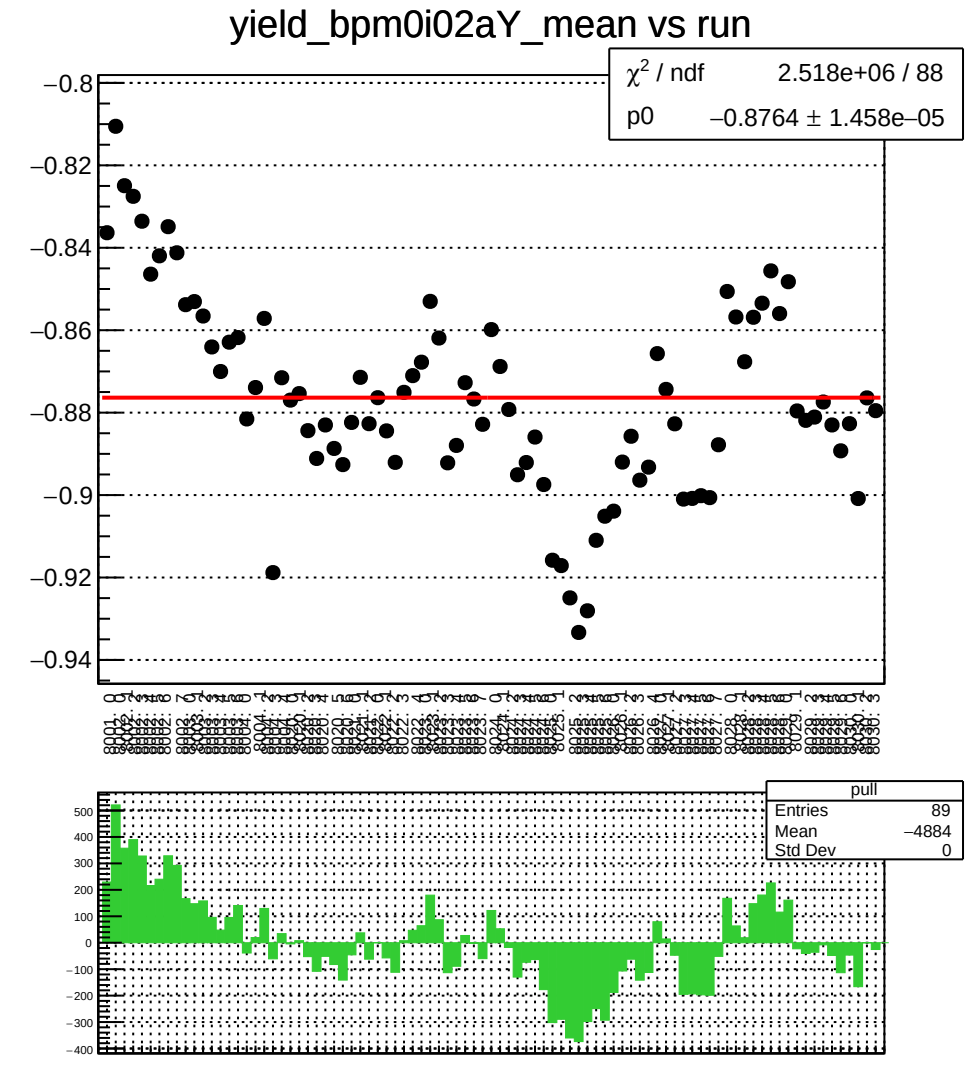

pull1D
Entries 89
Mean −6.867
Std Dev 0.8978
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

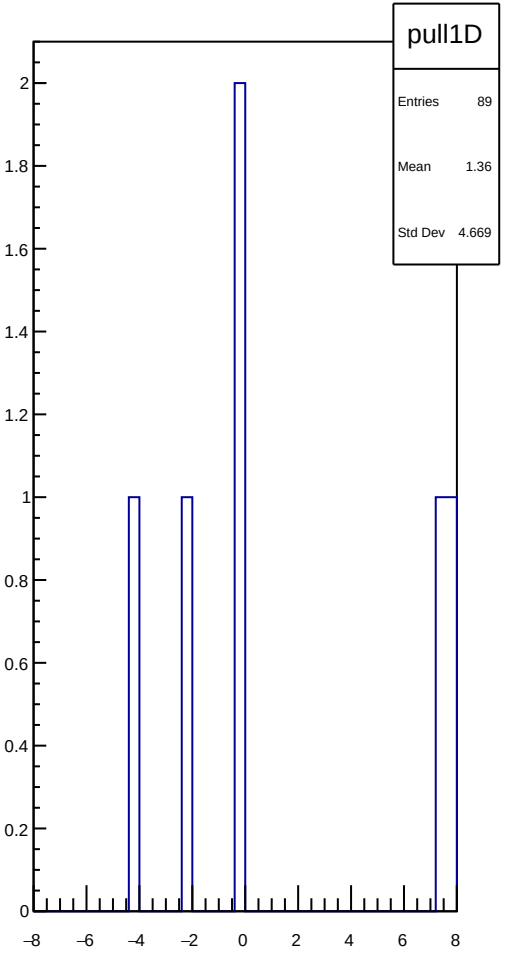

yield_bpm0i02Y_rms vs run
χ² / ndf 3.968e+04 / 88
p0 0.01248 ± 9.586e–06
0.06
0.05
0.04
0.03
0.02
0.01

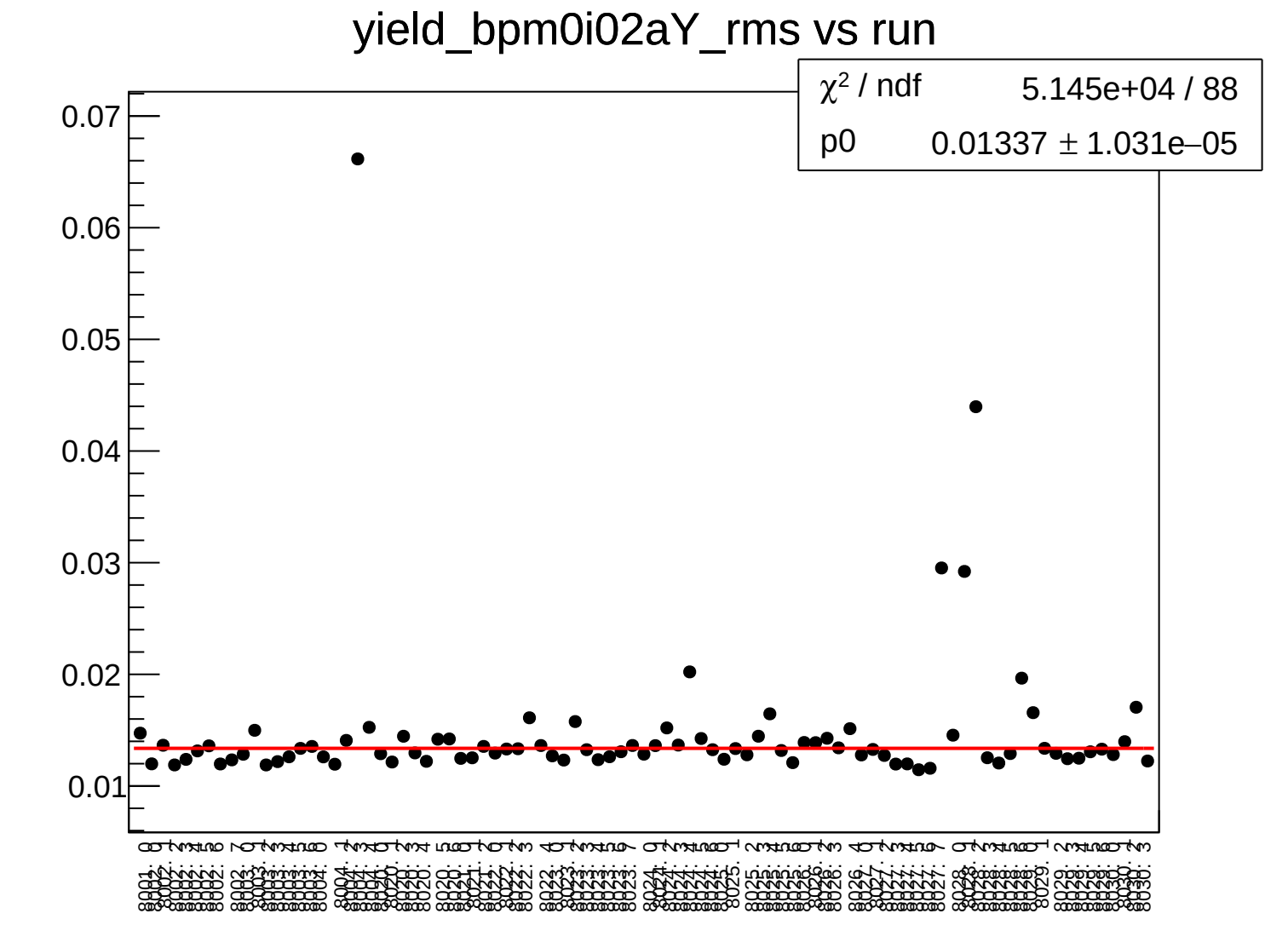

yield_bpm0i02aX_mean vs run
χ² / ndf 4.468e+06 / 88
p0 0.9849 ± 1.503e−05
1.04
1.02
1
0.98
0.96
0.94
0.92
0.9
pull
Entries 89
Mean −183.1
Std Dev 0
400
200
0
−200
−400
−600

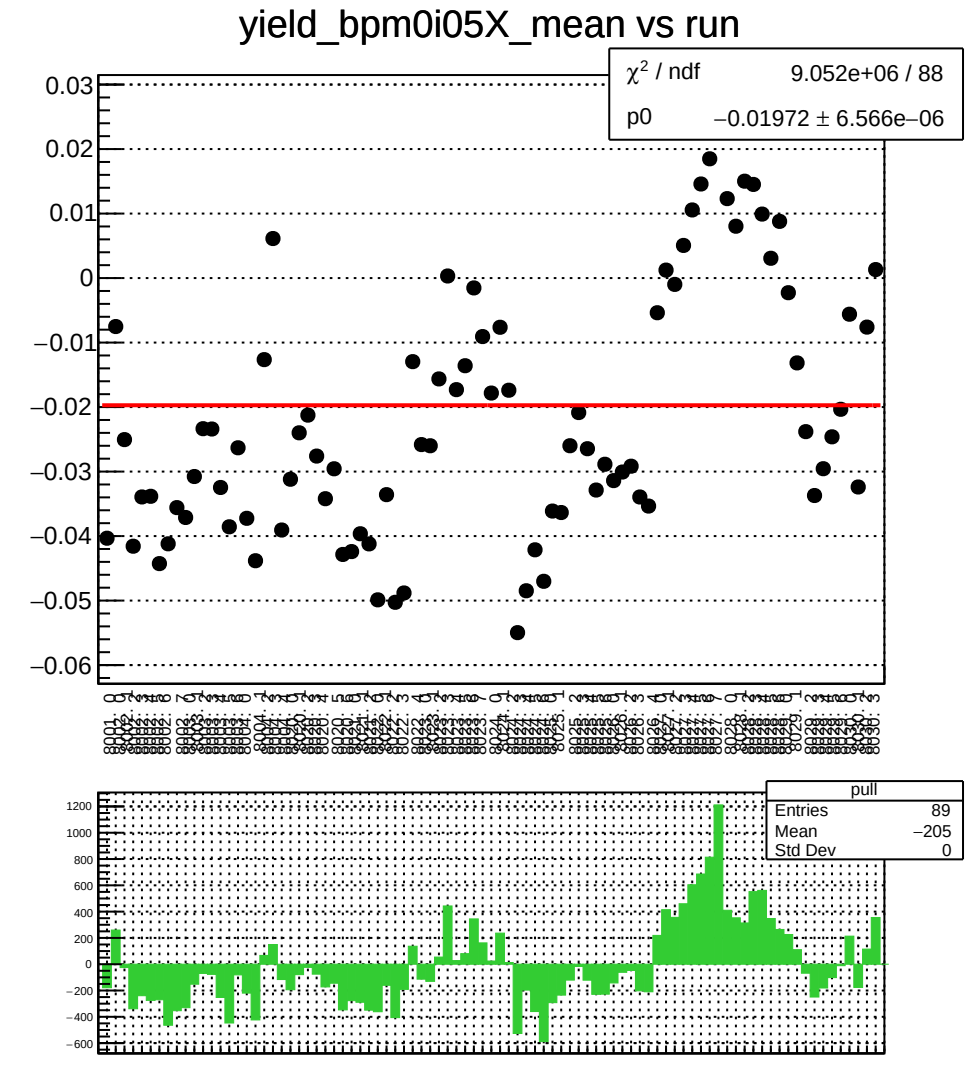

pull1D
Entries 89
Mean 3.279
Std Dev 3.281
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

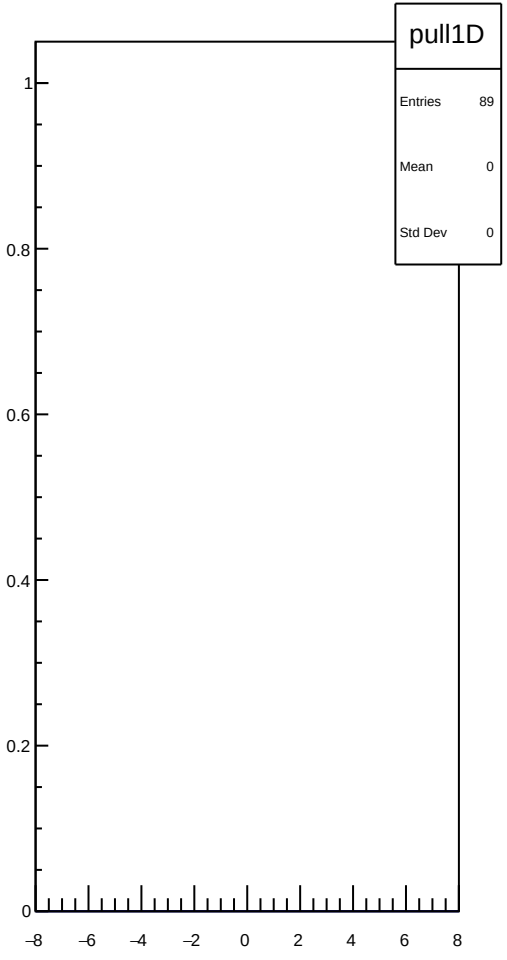

yield_bpm0i02aX_rms vs run
χ² / ndf 6.755e+04 / 88
p0 0.01372 ± 1.063e–05
0.035
0.03
0.025
0.02
0.015
0.01

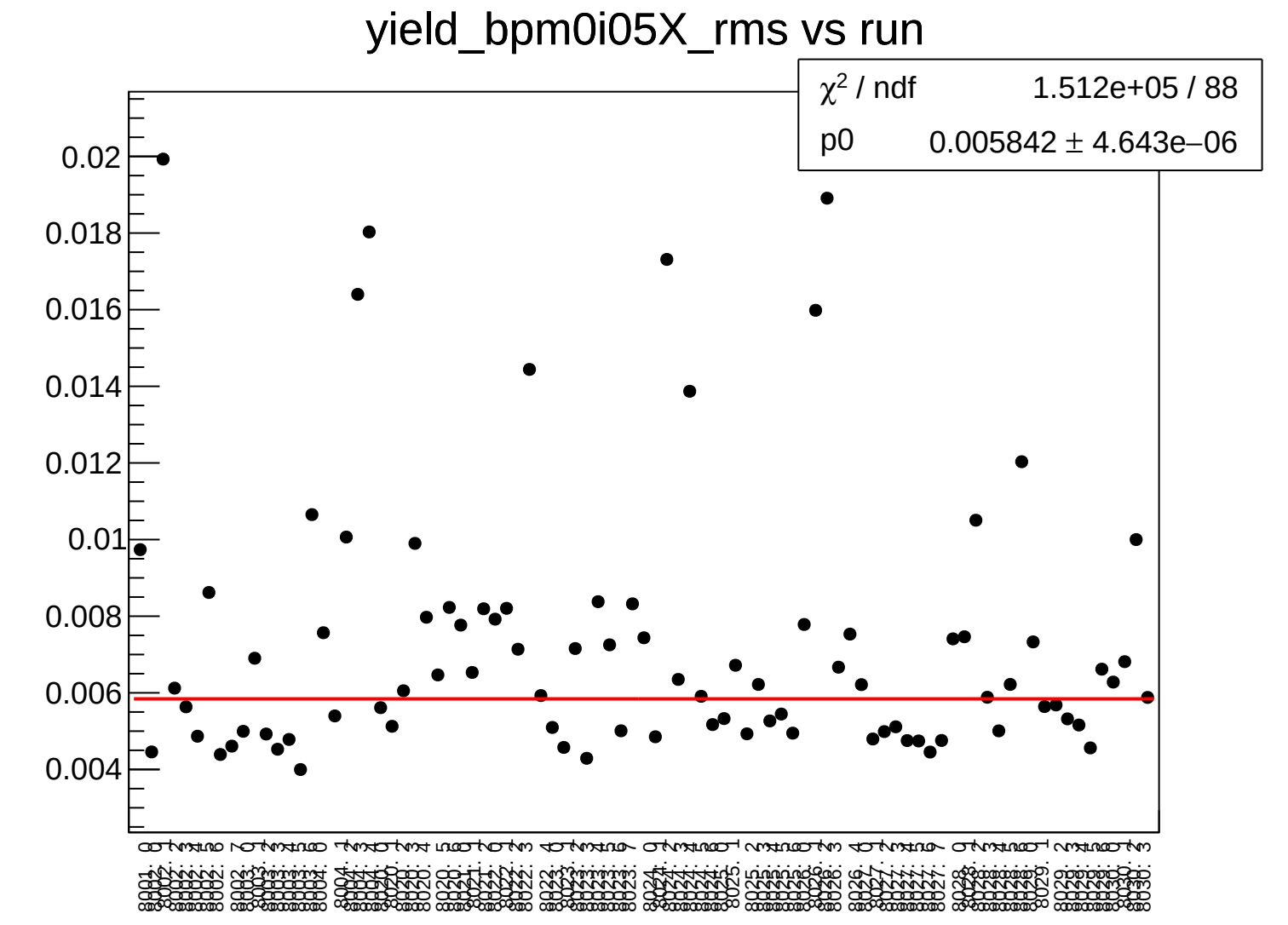

yield_bpm0i02aY_mean vs run
χ² / ndf 2.518e+06 / 88
p0 −0.8764 ± 1.458e−05
pull
Entries 89
Mean −4884
Std Dev 0

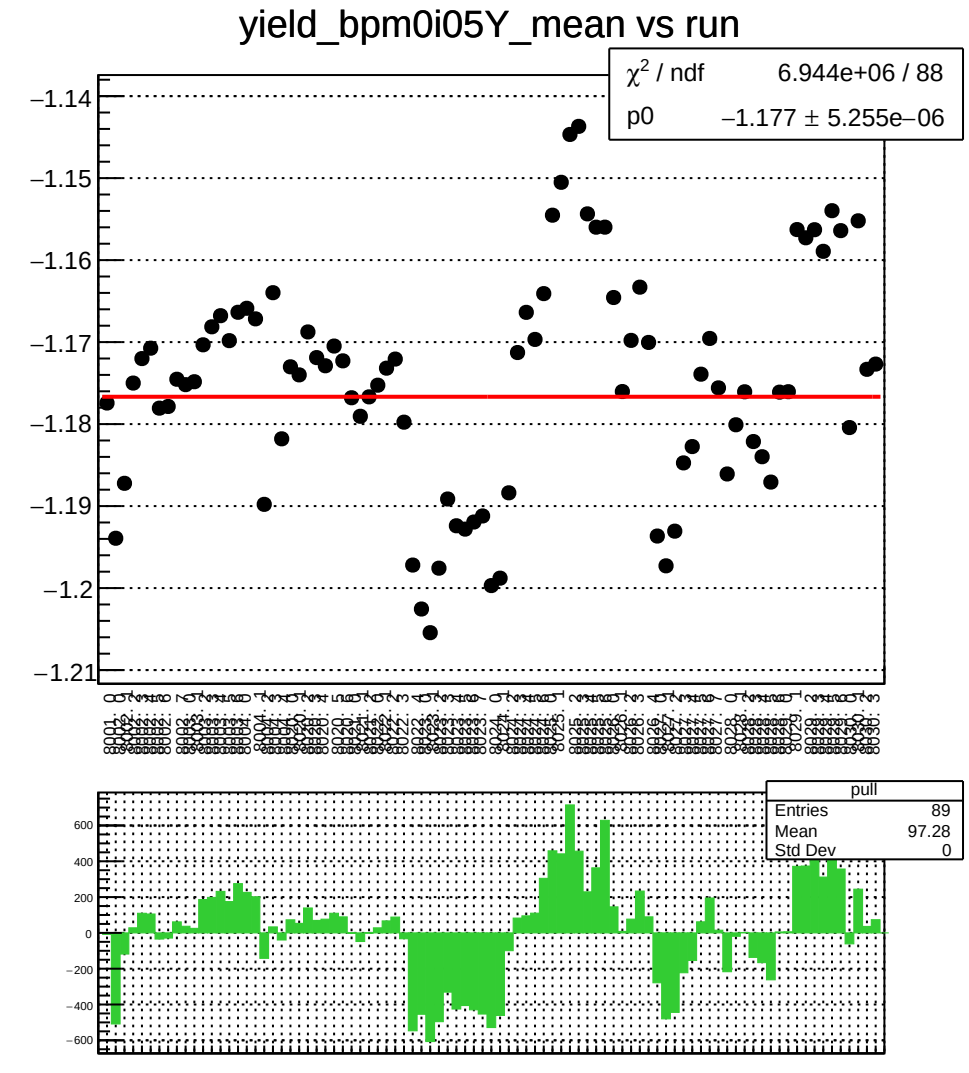

pull1D
Entries 89
Mean 1.36
Std Dev 4.669

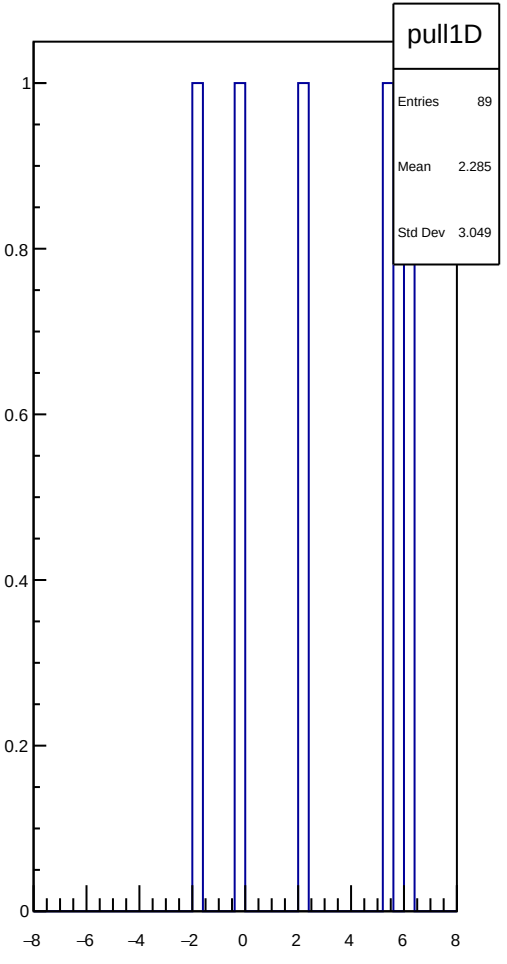

yield_bpm0i02aY_rms vs run
χ² / ndf 5.145e+04 / 88
p0 0.01337 ± 1.031e–05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

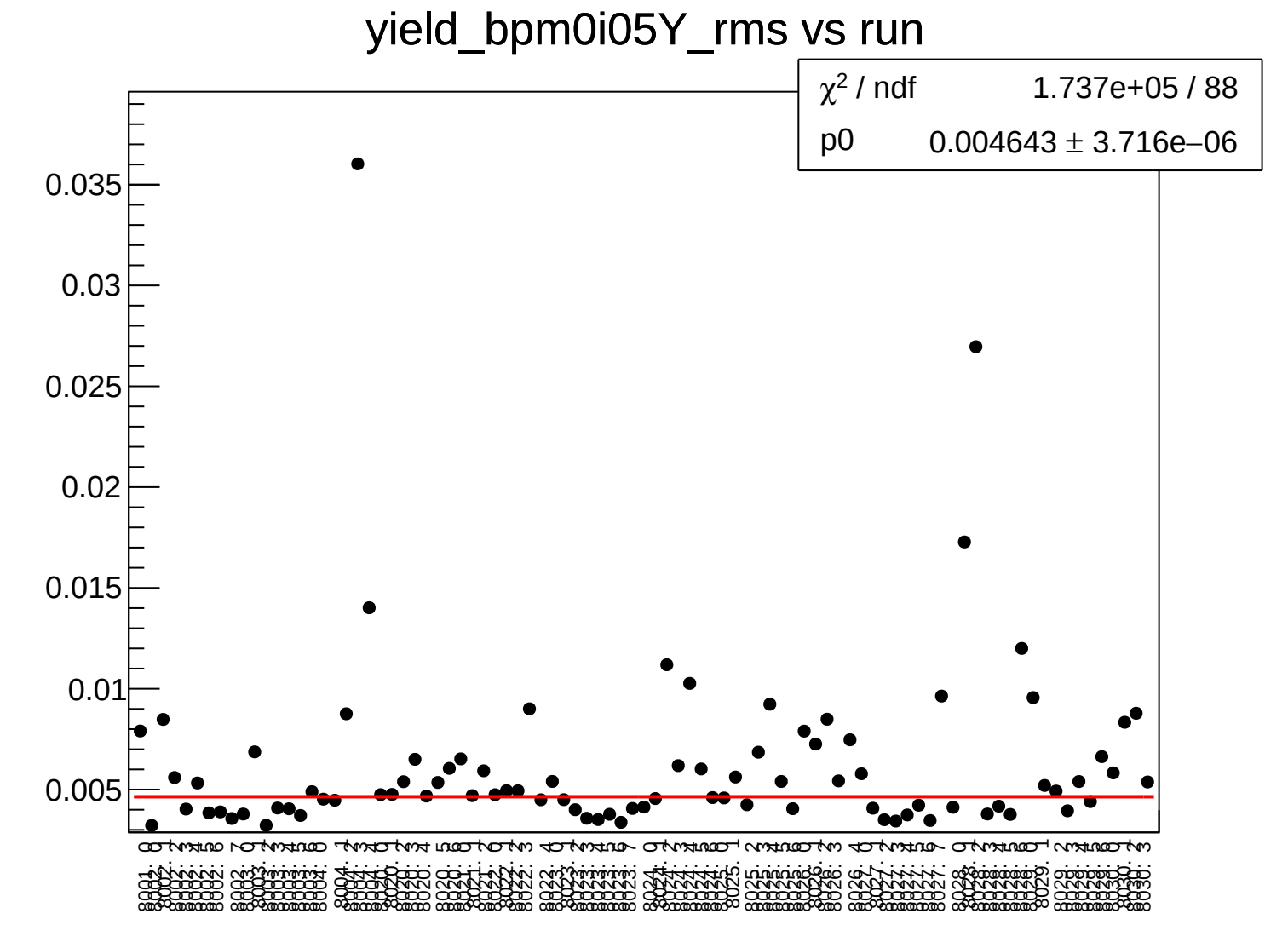

yield_bpm0i05X_mean vs run
χ² / ndf 9.052e+06 / 88
p0 −0.01972 ± 6.566e−06
pull
Entries 89
Mean −205
Std Dev 0

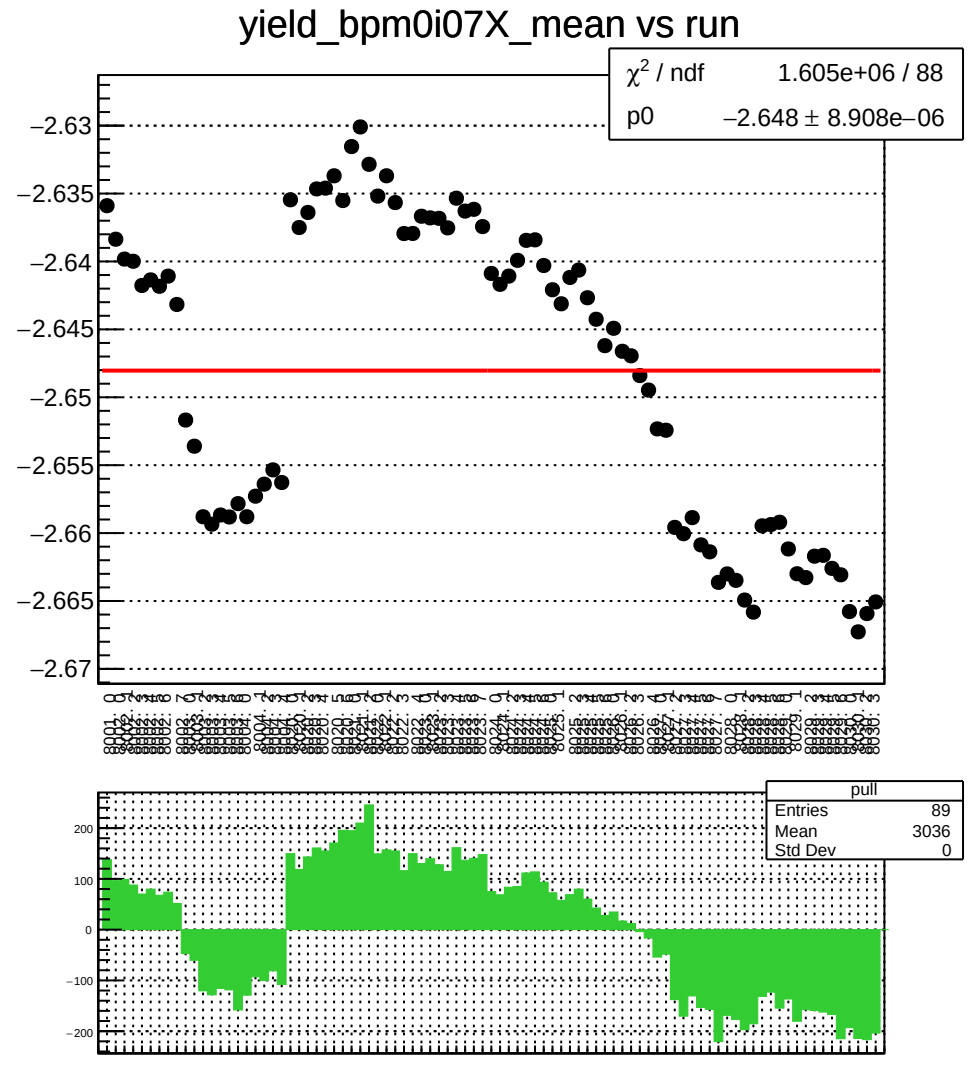

pull1D
Entries 89
Mean 0
Std Dev 0

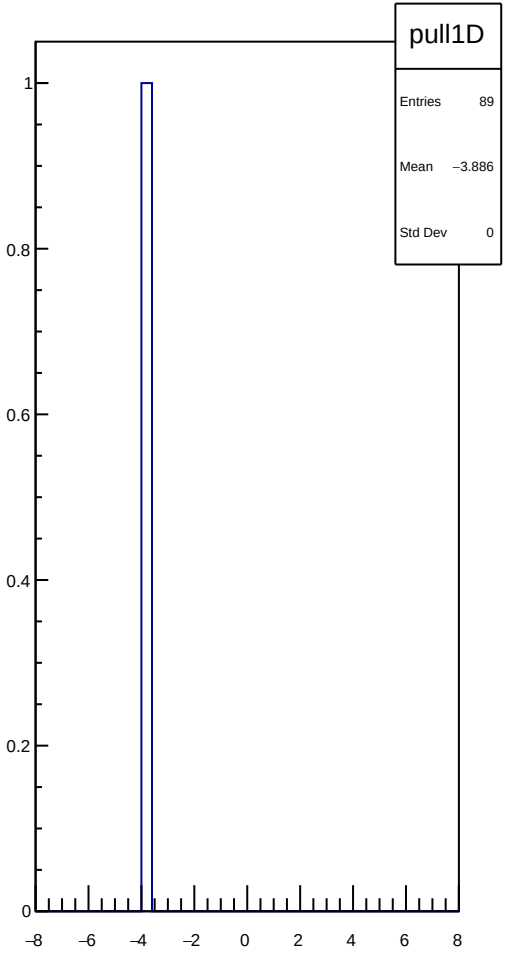

yield_bpm0i05X_rms vs run
χ² / ndf 1.512e+05 / 88
p0 0.005842 ± 4.643e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

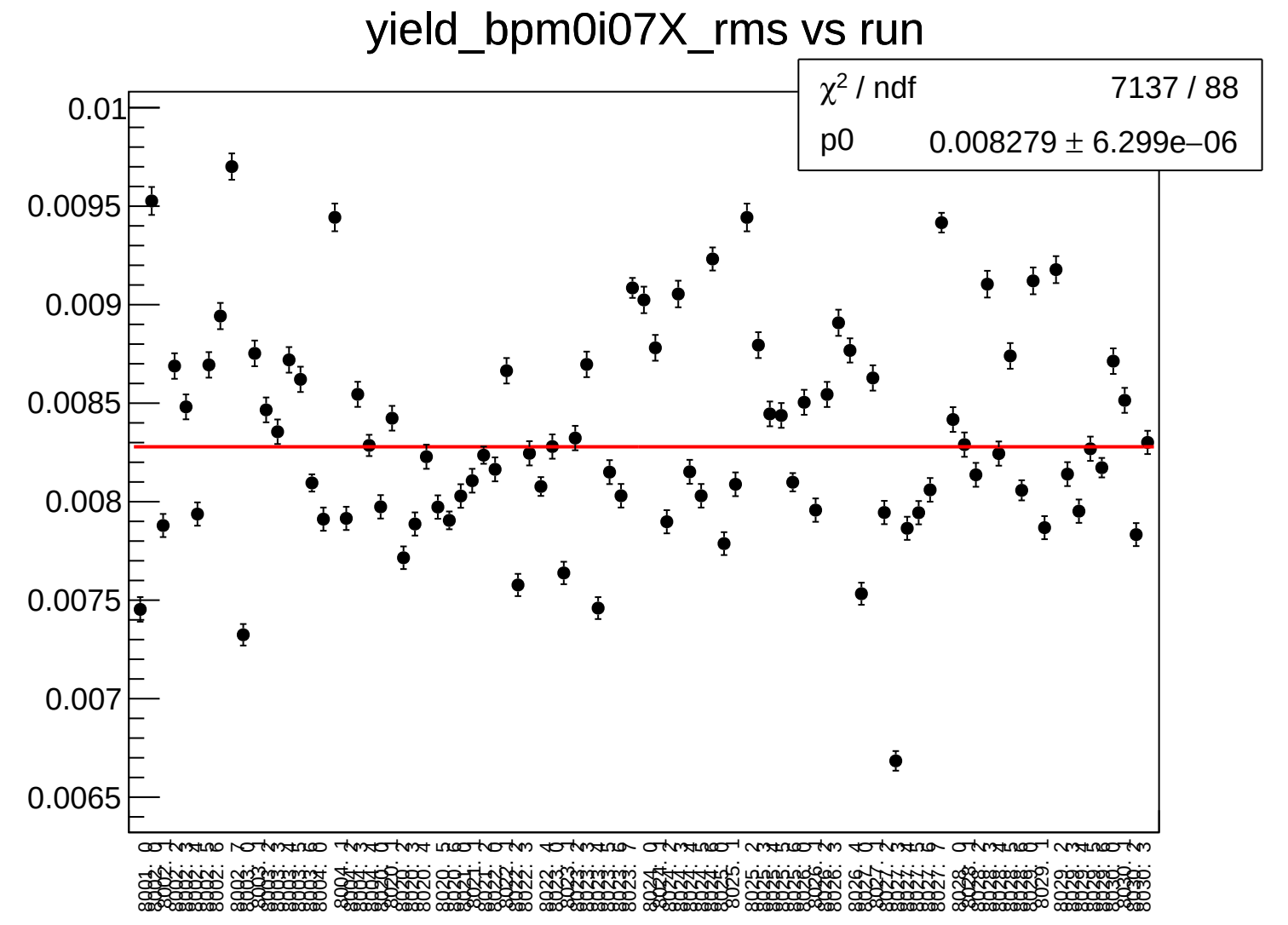

yield_bpm0i05Y_mean vs run
χ² / ndf 6.944e+06 / 88
p0 −1.177 ± 5.255e−06
−1.14
−1.15
−1.16
−1.17
−1.18
−1.19
−1.2
−1.21
pull
Entries 89
Mean 97.28
Std Dev 0
600
400
200
0
−200
−400
−600

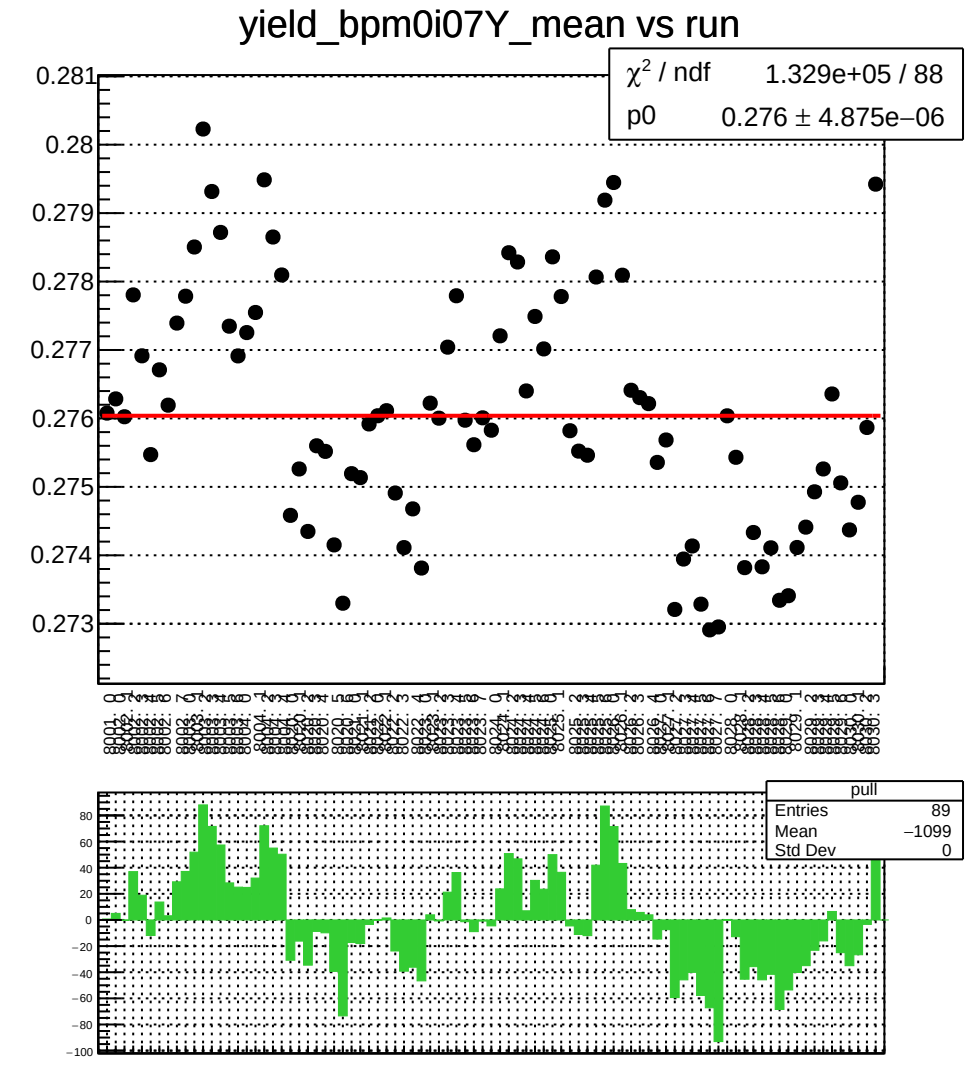

pull1D
Entries 89
Mean 2.285
Std Dev 3.049
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

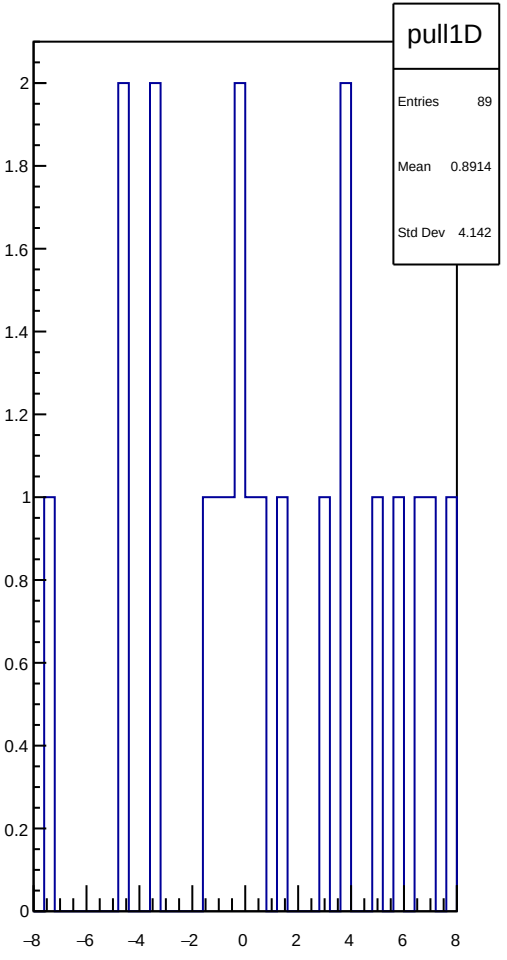

yield_bpm0i05Y_rms vs run
χ^2 / ndf 1.737e+05 / 88
p0 0.004643 ± 3.716e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005


yield_bpm0i07X_mean vs run
χ² / ndf 1.605e+06 / 88
p0 −2.648 ± 8.908e−06
−2.63
−2.635
−2.64
−2.645
−2.65
−2.655
−2.66
−2.665
−2.67
pull
Entries 89
Mean 3036
Std Dev 0
200
100
0
−100
−200

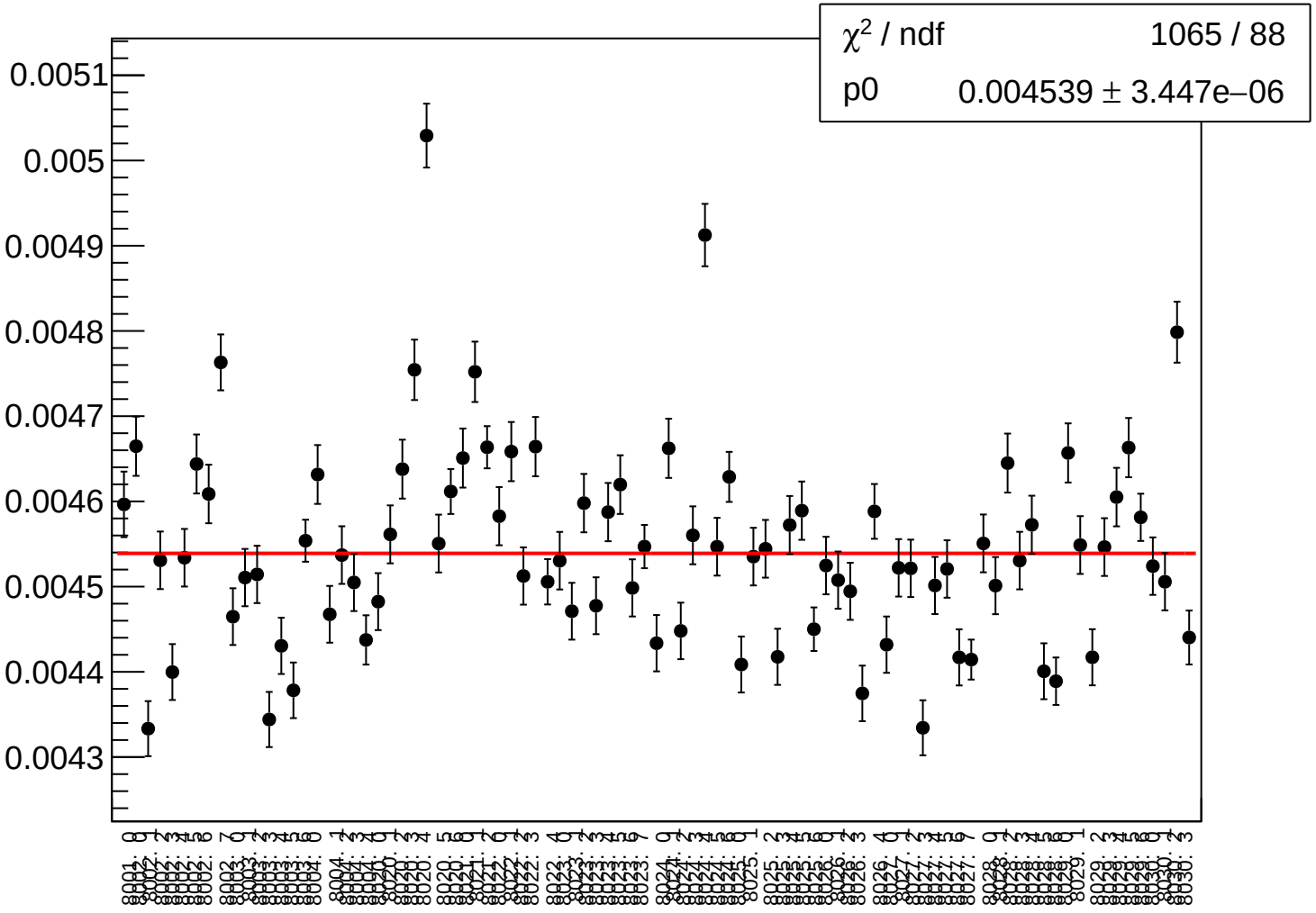

pull1D
Entries 89
Mean −3.886
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

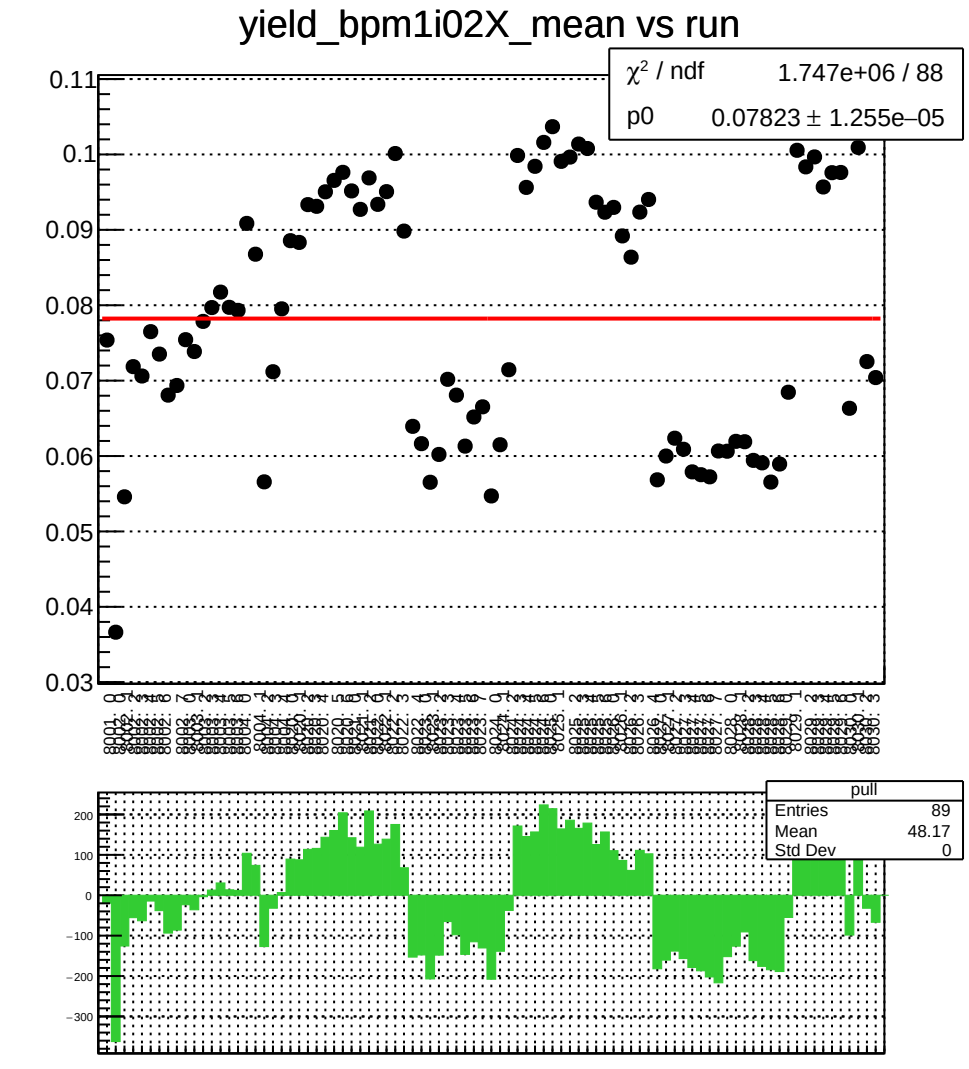

yield_bpm0i07X_rms vs run
χ² / ndf 7137 / 88
p0 0.008279 ± 6.299e−06
0.01
0.0095
0.009
0.0085
0.008
0.0075
0.007
0.0065

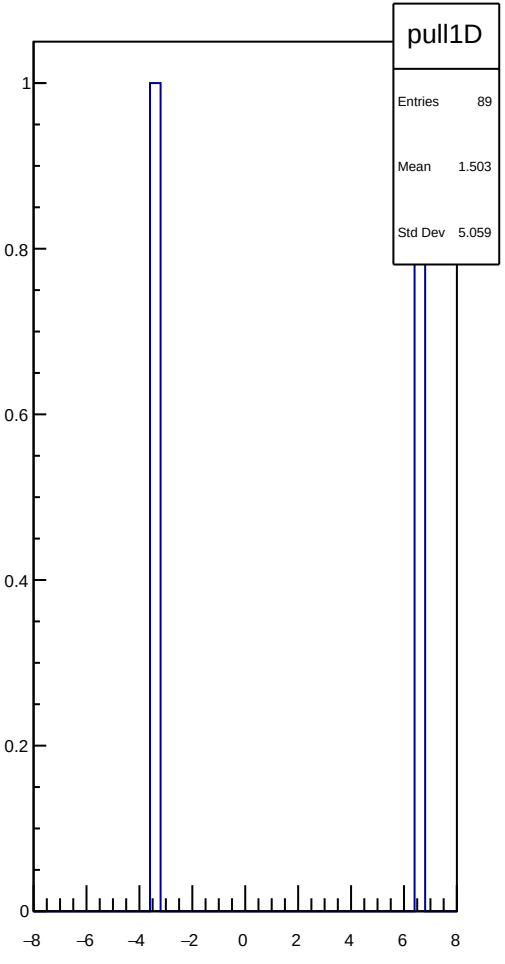

yield_bpm0i07Y_mean vs run
χ² / ndf 1.329e+05 / 88
p0 0.276 ± 4.875e−06
0.281
0.28
0.279
0.278
0.277
0.276
0.275
0.274
0.273
pull
Entries 89
Mean −1099
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100

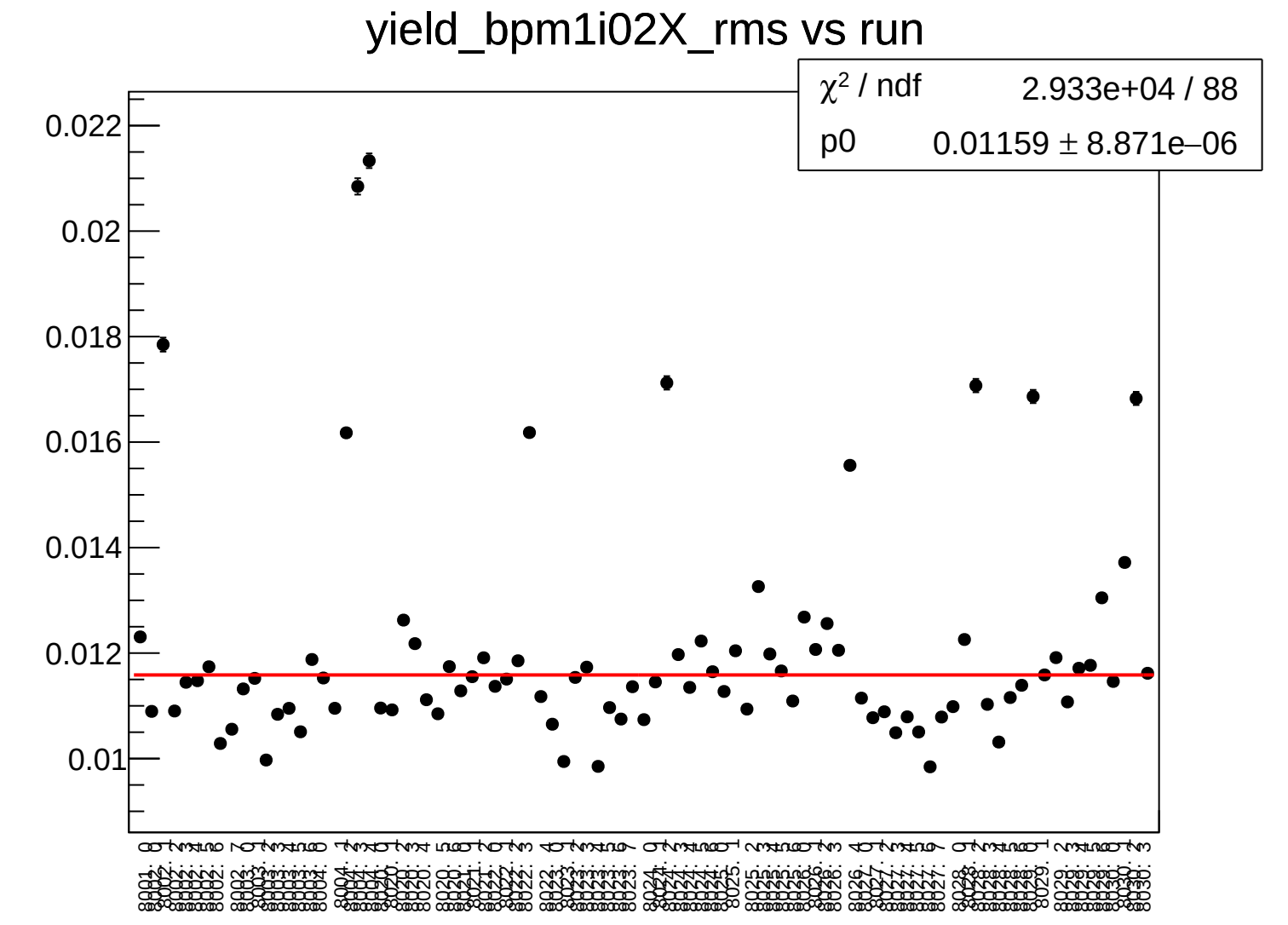

pull1D
Entries 89
Mean 0.8914
Std Dev 4.142
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

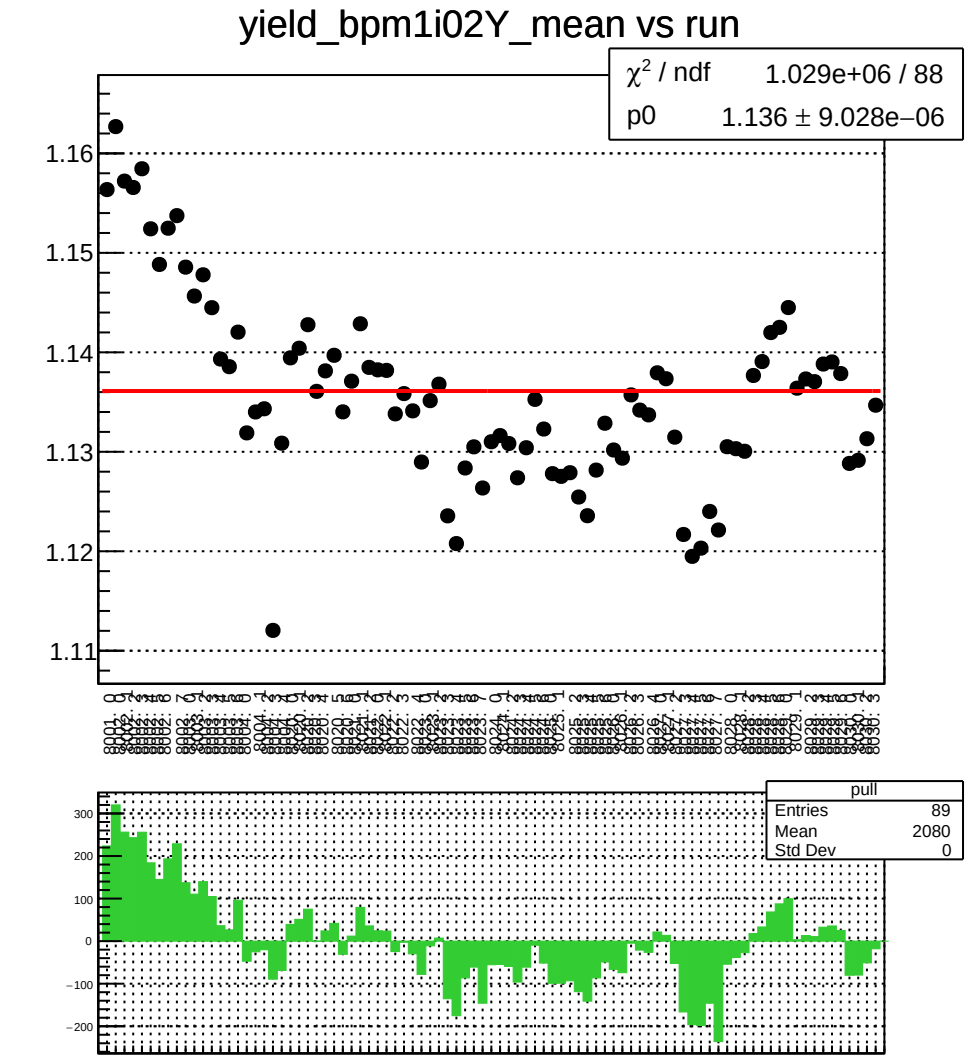
yield_bpm0i07Y_rms vs run

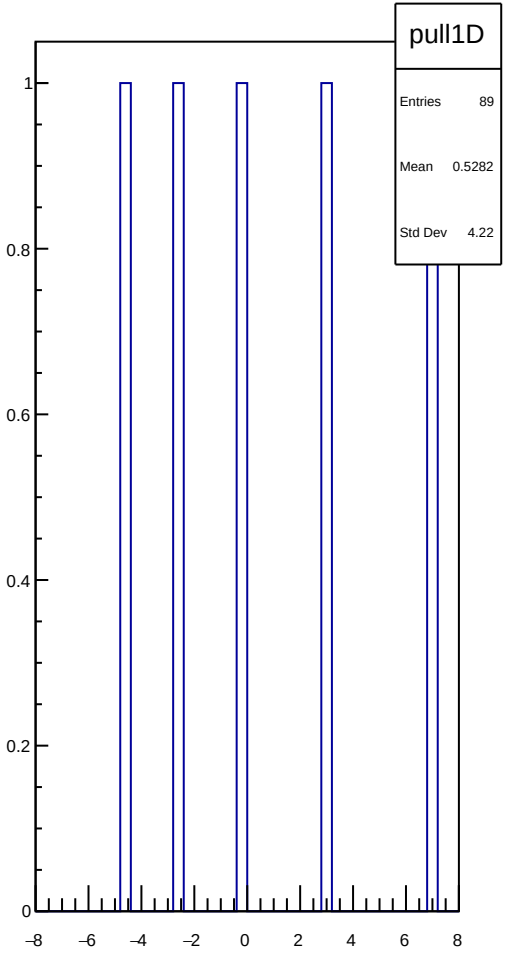


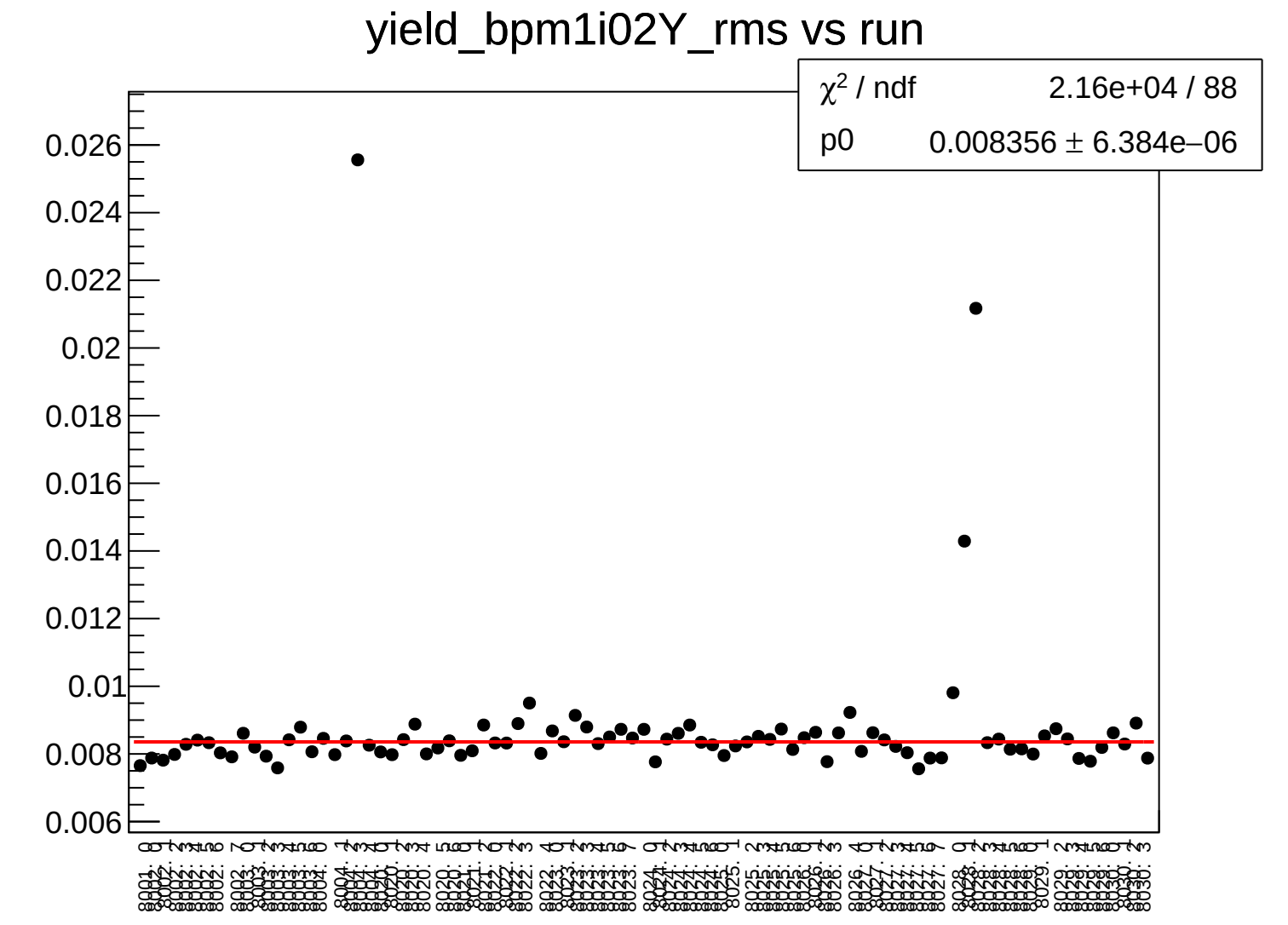

yield_bpm1i02X_mean vs run
χ² / ndf 1.747e+06 / 88
p0 0.07823 ± 1.255e−05
pull
Entries 89
Mean 48.17
Std Dev 0

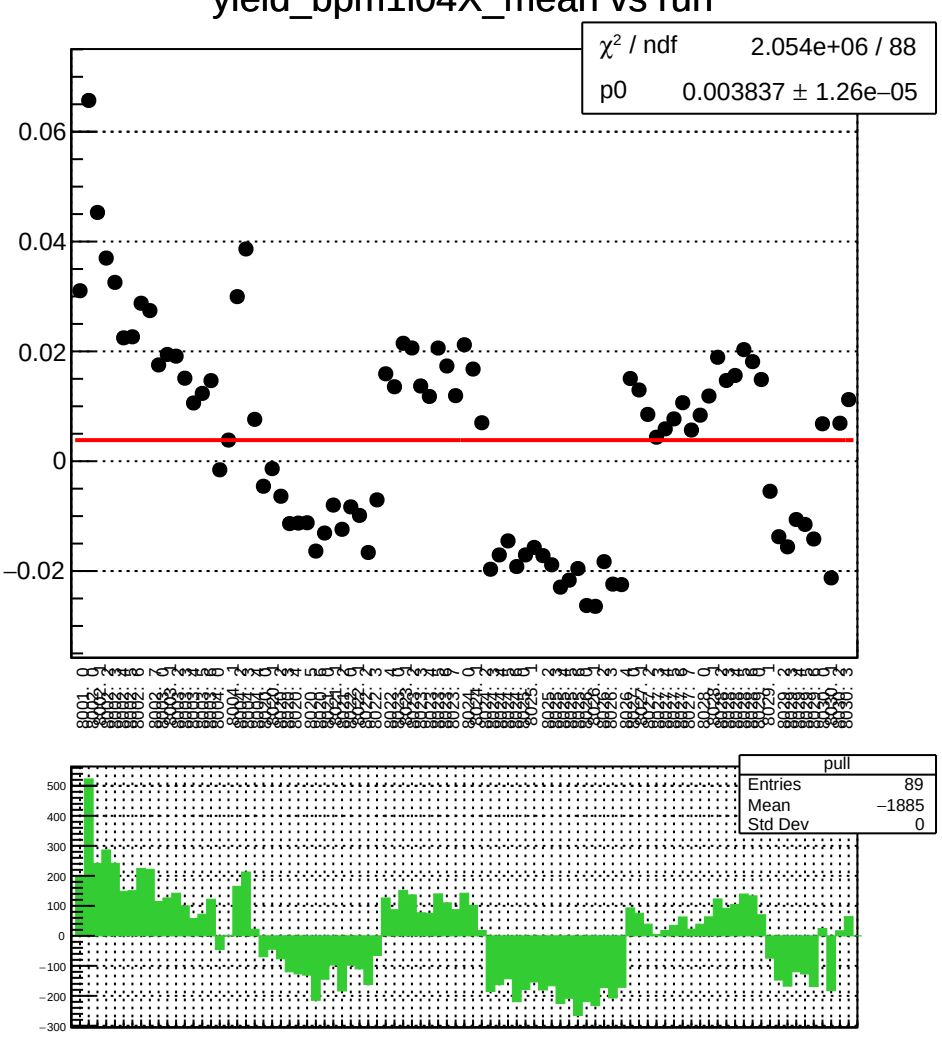

pull1D
Entries 89
Mean 1.503
Std Dev 5.059

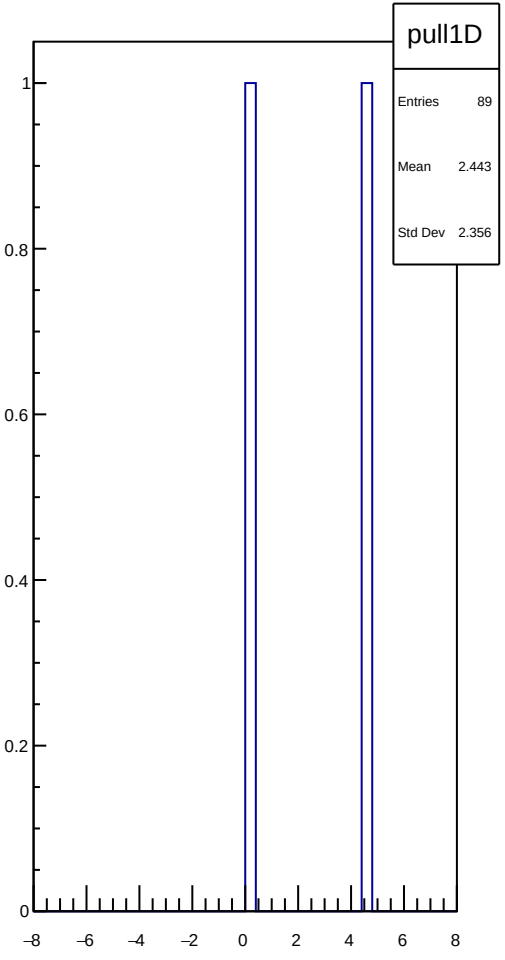

yield_bpm1i02X_rms vs run
χ² / ndf 2.933e+04 / 88
p0 0.01159 ± 8.871e–06
0.022
0.02
0.018
0.016
0.014
0.012
0.01

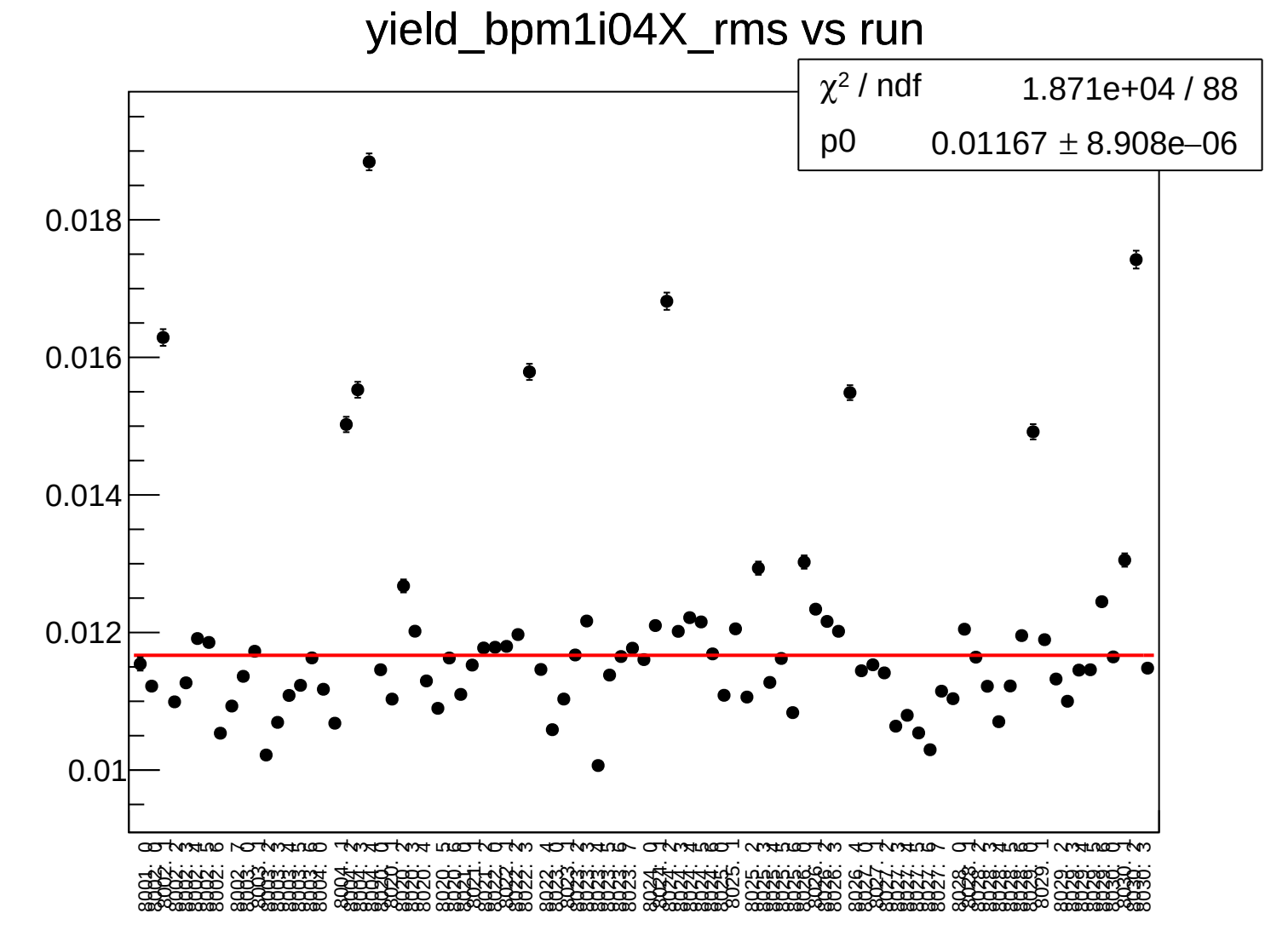

yield_bpm1i02Y_mean vs run
χ² / ndf 1.029e+06 / 88
p0 1.136 ± 9.028e−06
1.16
1.15
1.14
1.13
1.12
1.11
pull
Entries 89
Mean 2080
Std Dev 0
300
200
100
0
−100
−200

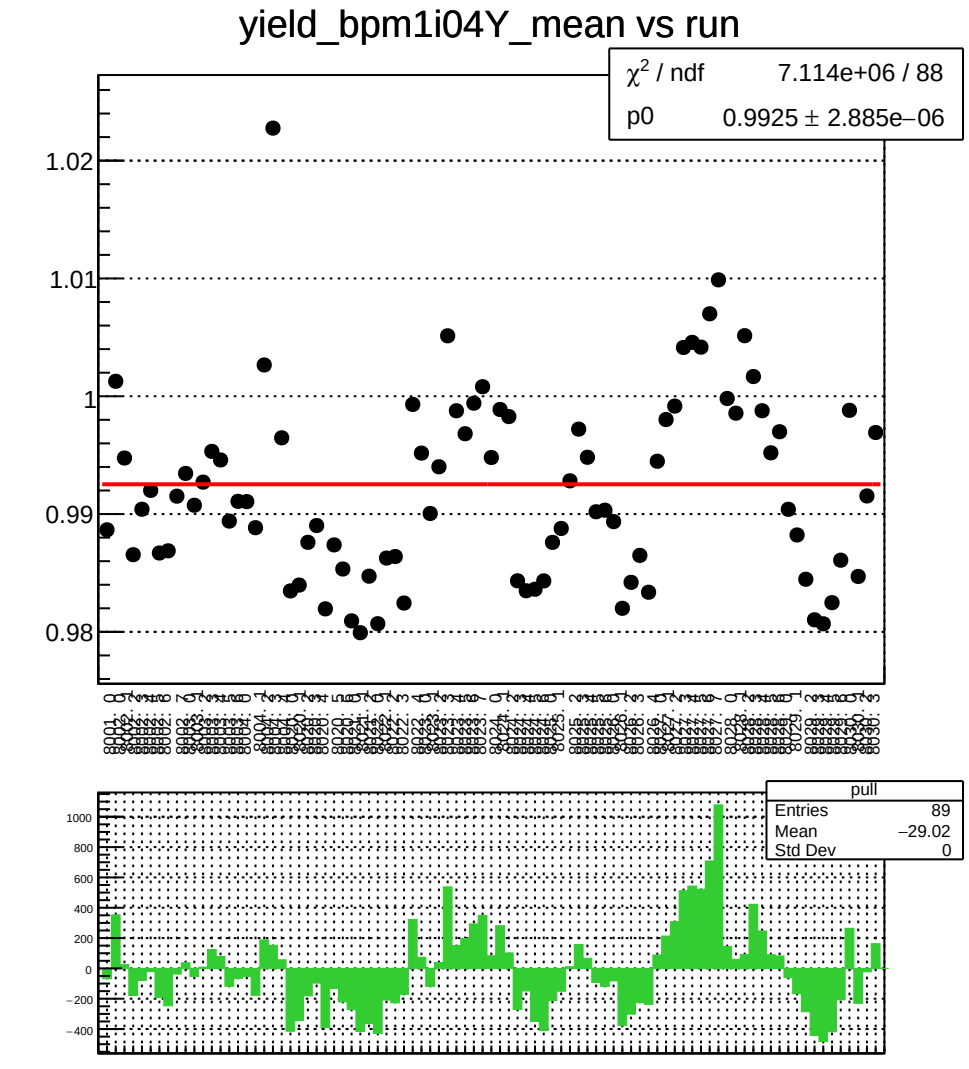

pull1D
Entries 89
Mean 0.5282
Std Dev 4.22
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

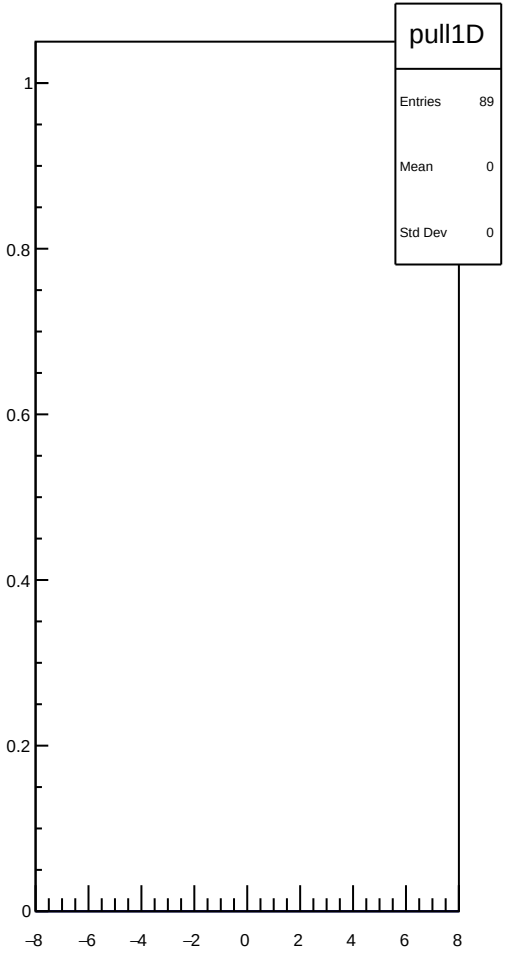

yield_bpm1i02Y_rms vs run
χ^2 / ndf 2.16e+04 / 88
p0 0.008356 ± 6.384e−06
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

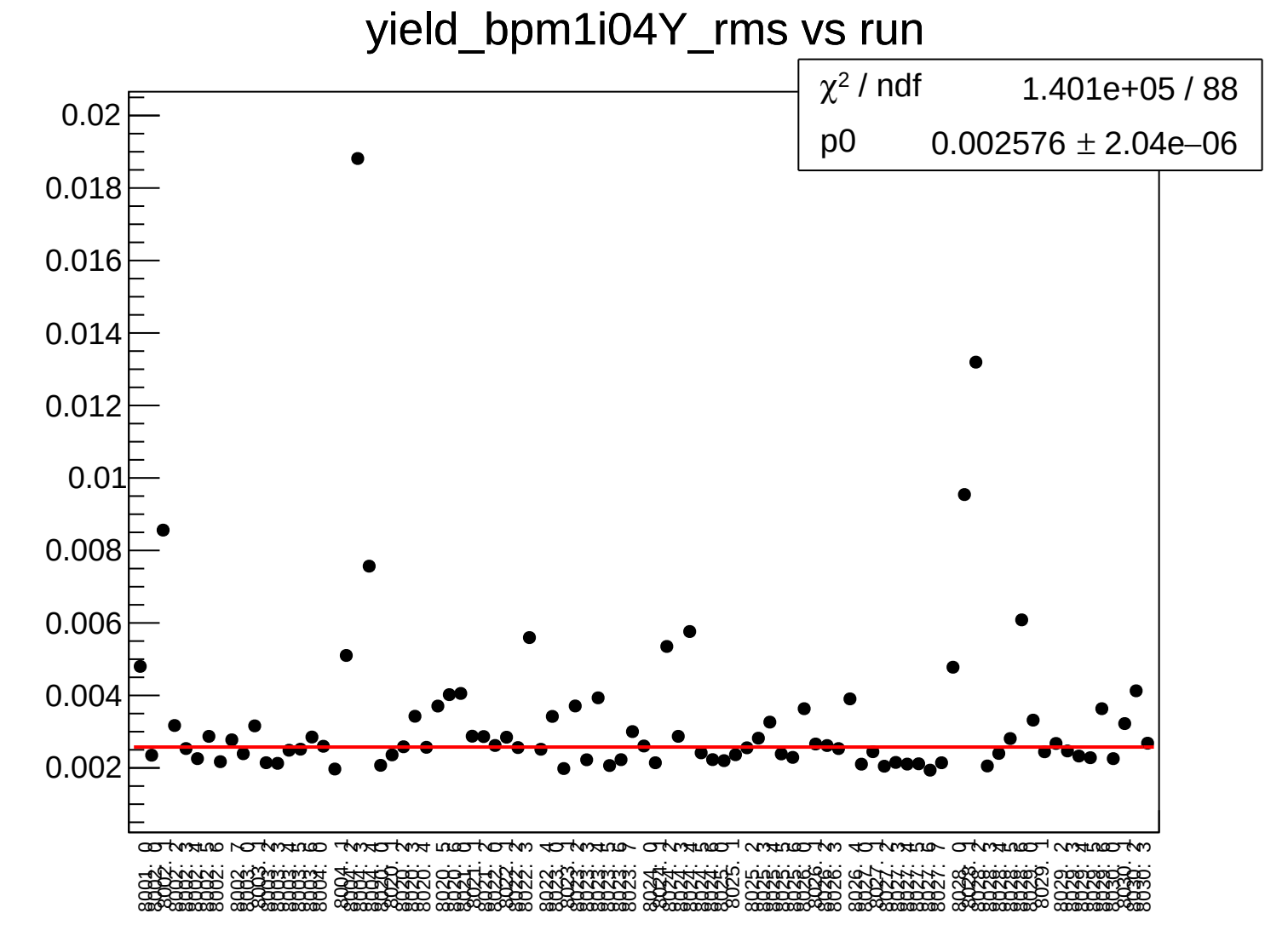

yield_bpm1i04X_mean vs run
χ² / ndf 2.054e+06 / 88
p0 0.003837 ± 1.26e−05
0.06
0.04
0.02
0
−0.02
pull
Entries 89
Mean −1885
Std Dev 0
500
400
300
200
100
0
−100
−200
−300

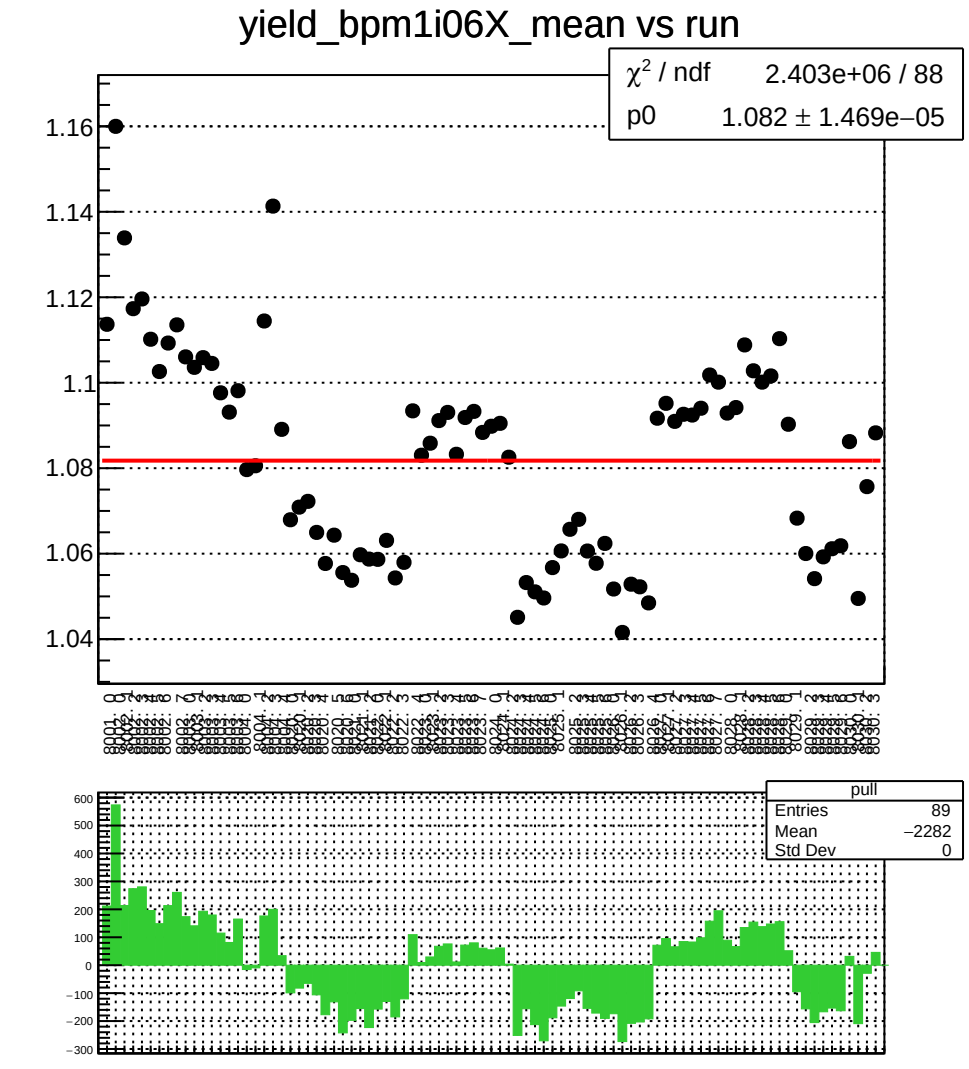

pull1D
Entries 89
Mean 2.443
Std Dev 2.356
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

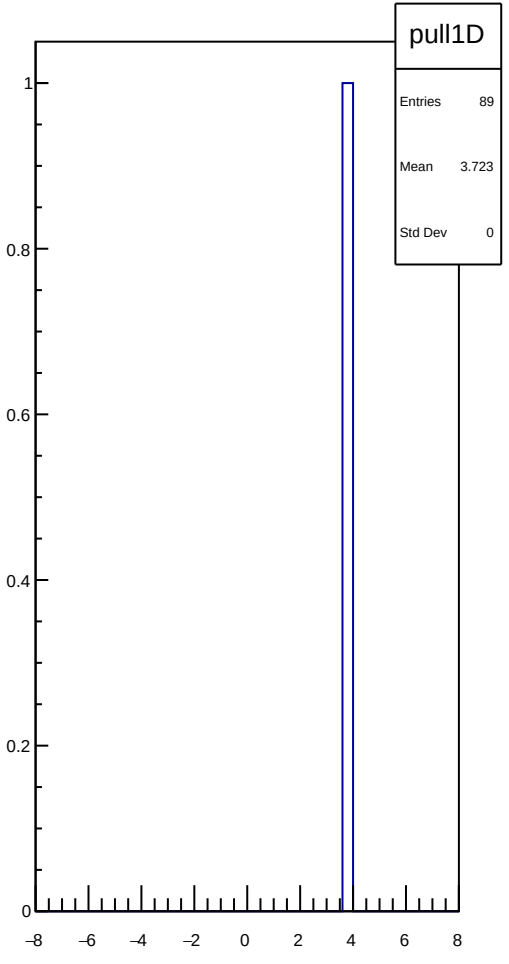

yield_bpm1i04X_rms vs run
χ² / ndf 1.871e+04 / 88
p0 0.01167 ± 8.908e–06
0.018
0.016
0.014
0.012
0.01

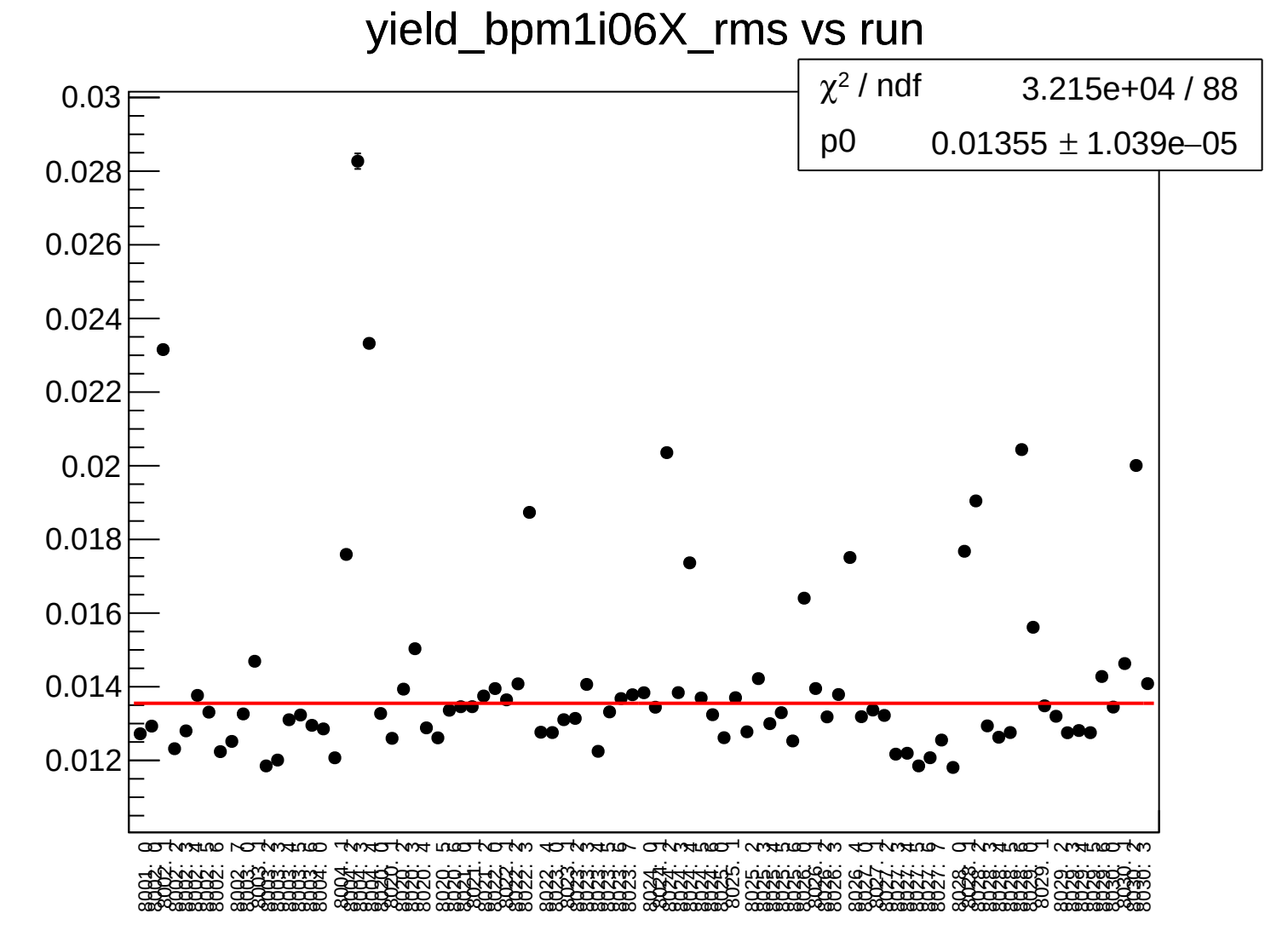

yield_bpm1i04Y_mean vs run
χ² / ndf 7.114e+06 / 88
p0 0.9925 ± 2.885e−06
1.02
1.01
1
0.99
0.98
pull
Entries 89
Mean −29.02
Std Dev 0
1000
800
600
400
200
0
−200
−400

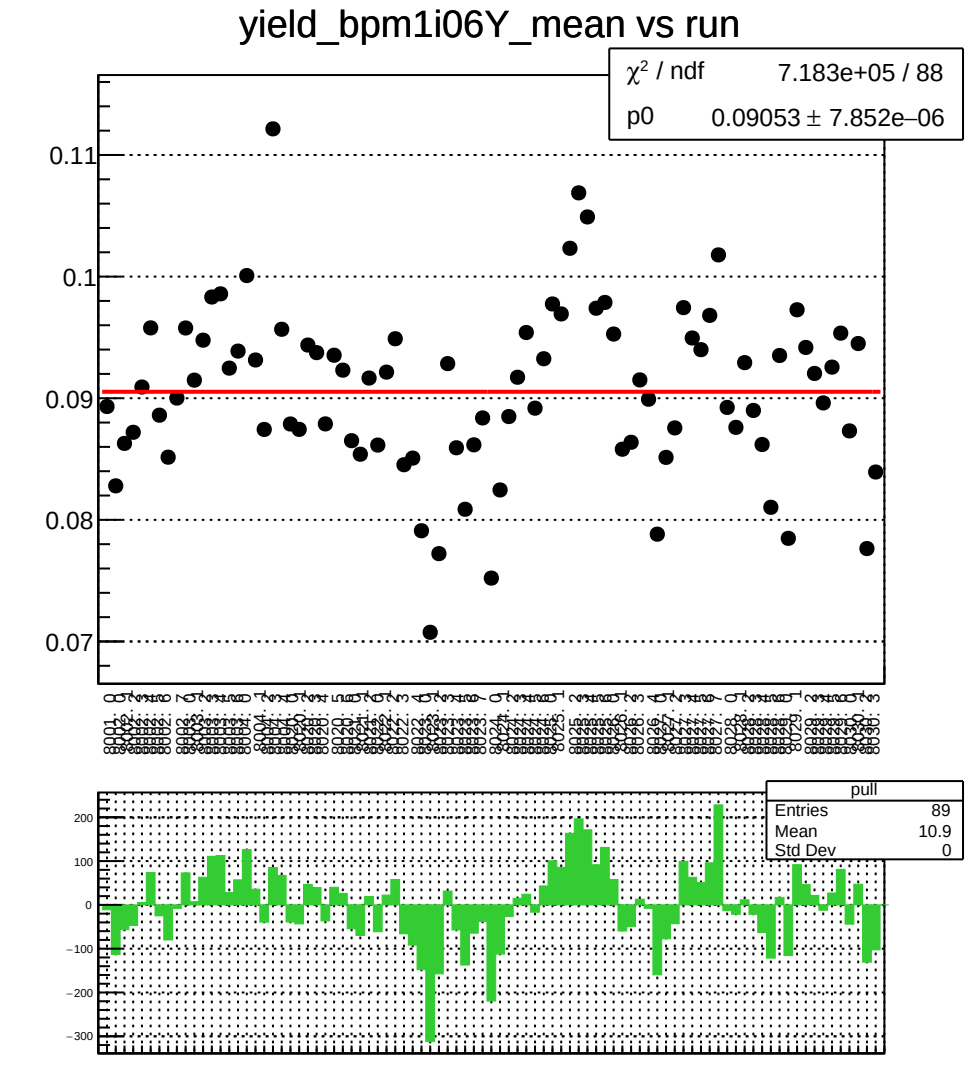

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

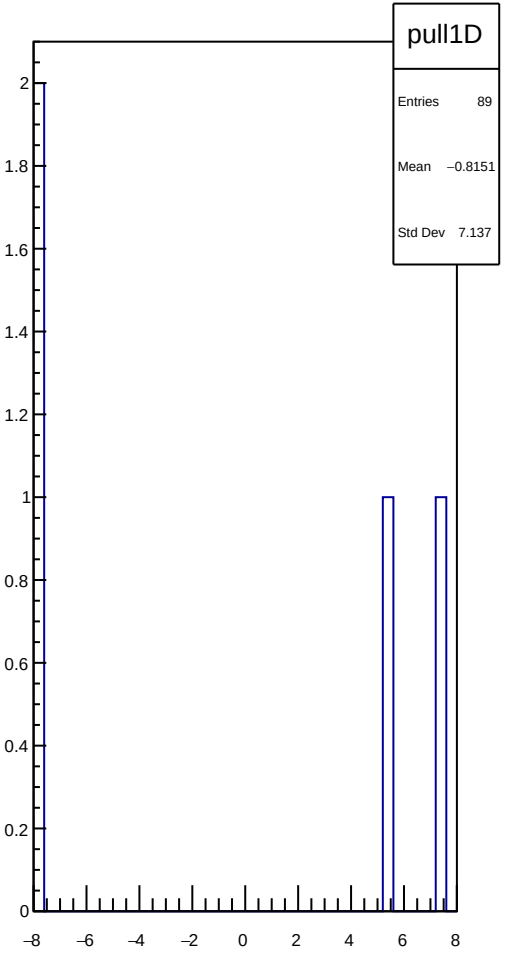

yield_bpm1i04Y_rms vs run
χ² / ndf 1.401e+05 / 88
p0 0.002576 ± 2.04e–06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

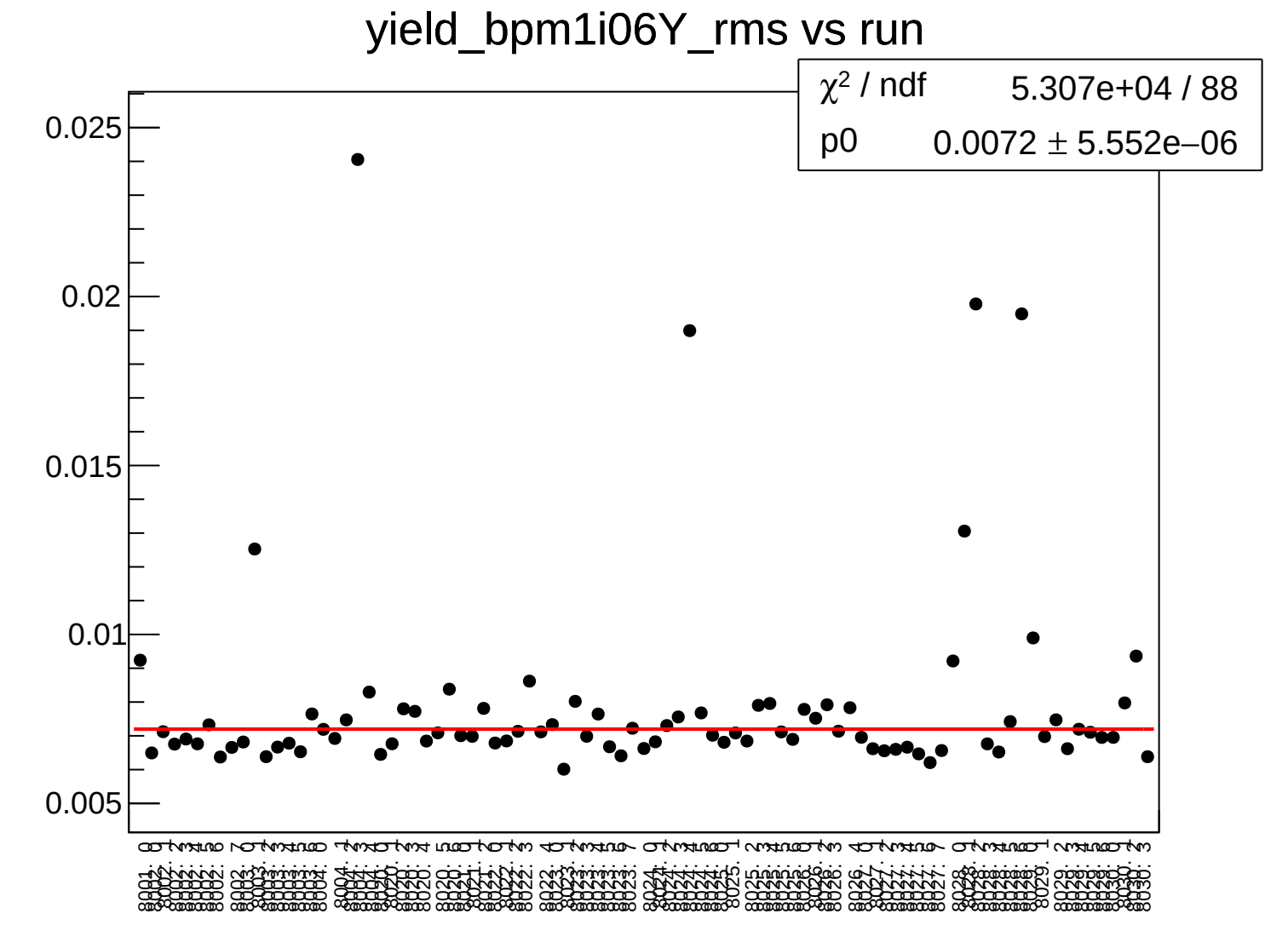

yield_bpm1i06X_mean vs run
χ² / ndf 2.403e+06 / 88
p0 1.082 ± 1.469e−05
1.16
1.14
1.12
1.1
1.08
1.06
1.04
pull
Entries 89
Mean −2282
Std Dev 0
600
500
400
300
200
100
0
−100
−200
−300

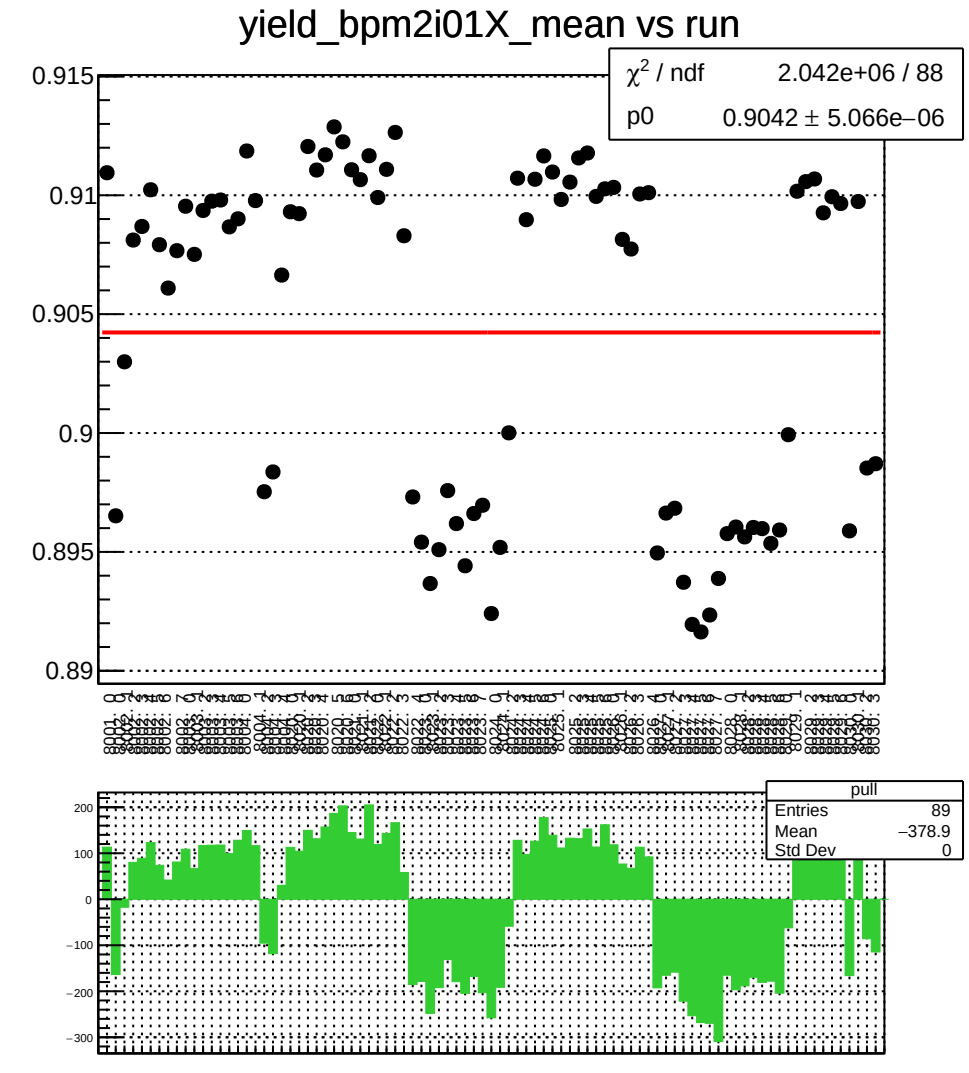

pull1D
Entries 89
Mean 3.723
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

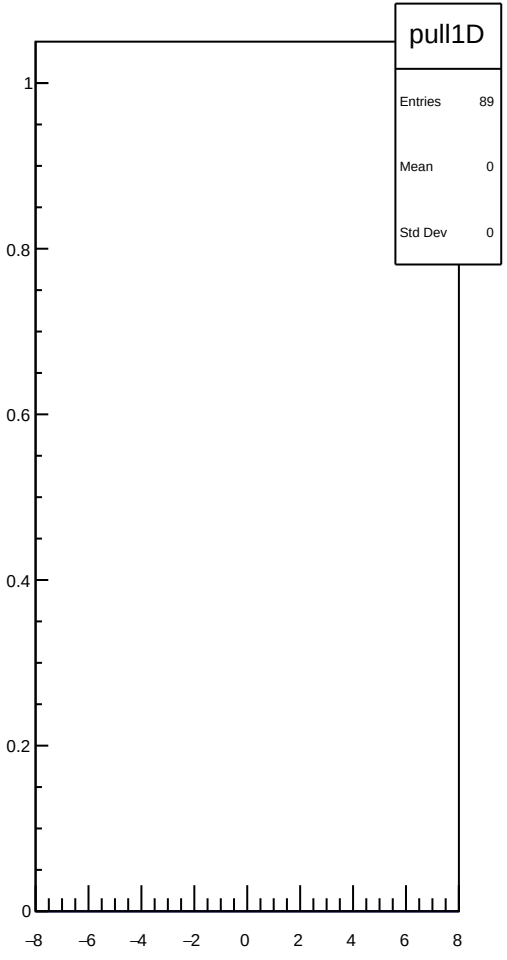

yield_bpm1i06X_rms vs run
χ² / ndf 3.215e+04 / 88
p0 0.01355 ± 1.039e–05
0.03
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012

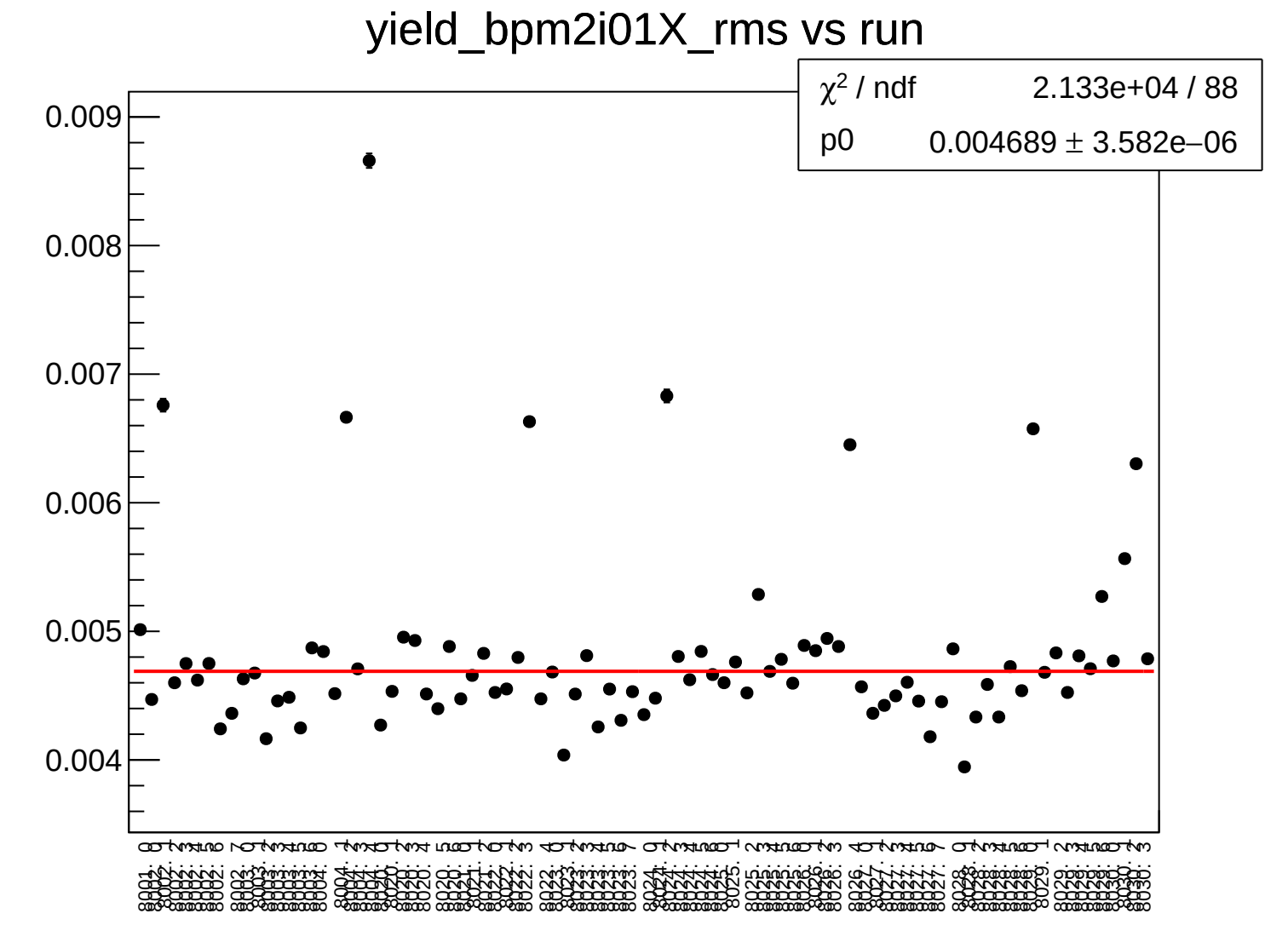

yield_bpm1i06Y_mean vs run
χ² / ndf 7.183e+05 / 88
p0 0.09053 ± 7.852e−06
0.11
0.1
0.09
0.08
0.07
pull
Entries 89
Mean 10.9
Std Dev 0
200
100
0
−100
−200
−300

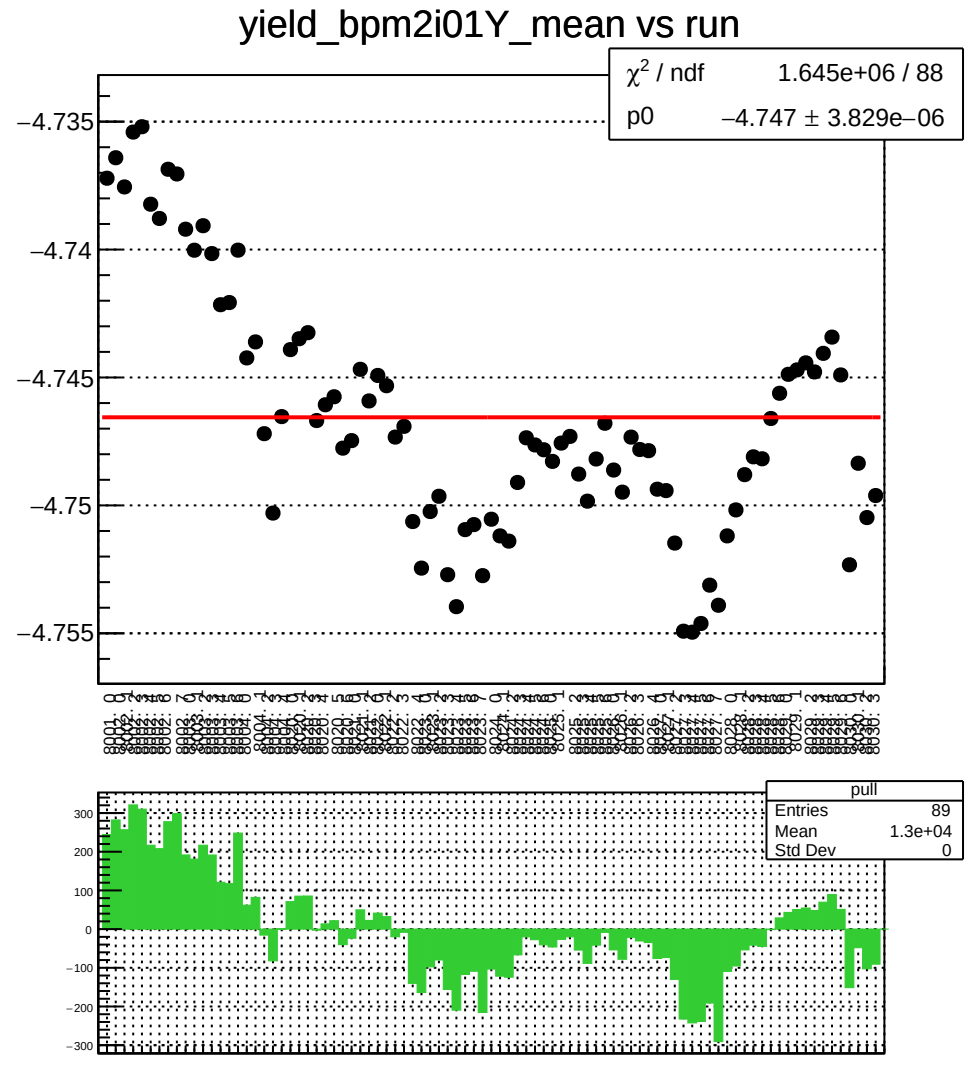

pull1D
Entries 89
Mean −0.8151
Std Dev 7.137
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

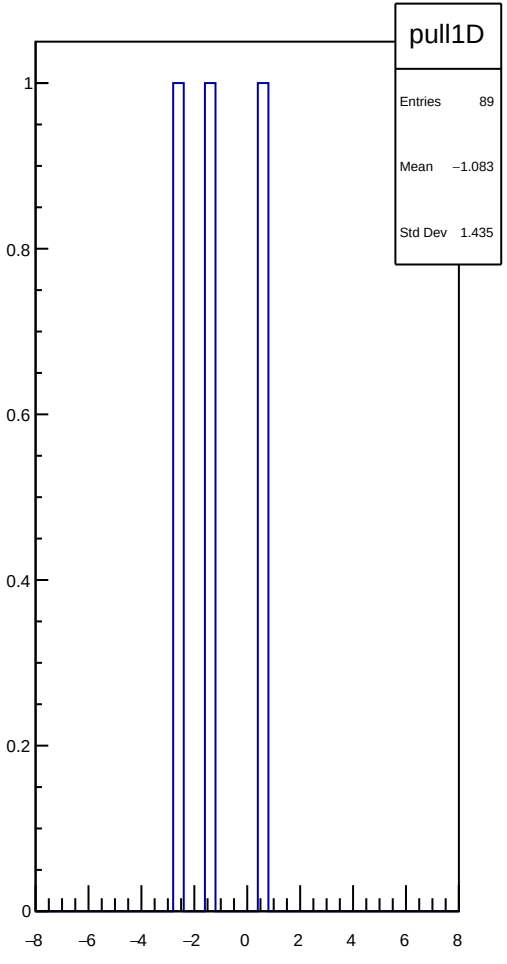

yield_bpm1i06Y_rms vs run
χ² / ndf 5.307e+04 / 88
p0 0.0072 ± 5.552e−06
0.025
0.02
0.015
0.01
0.005

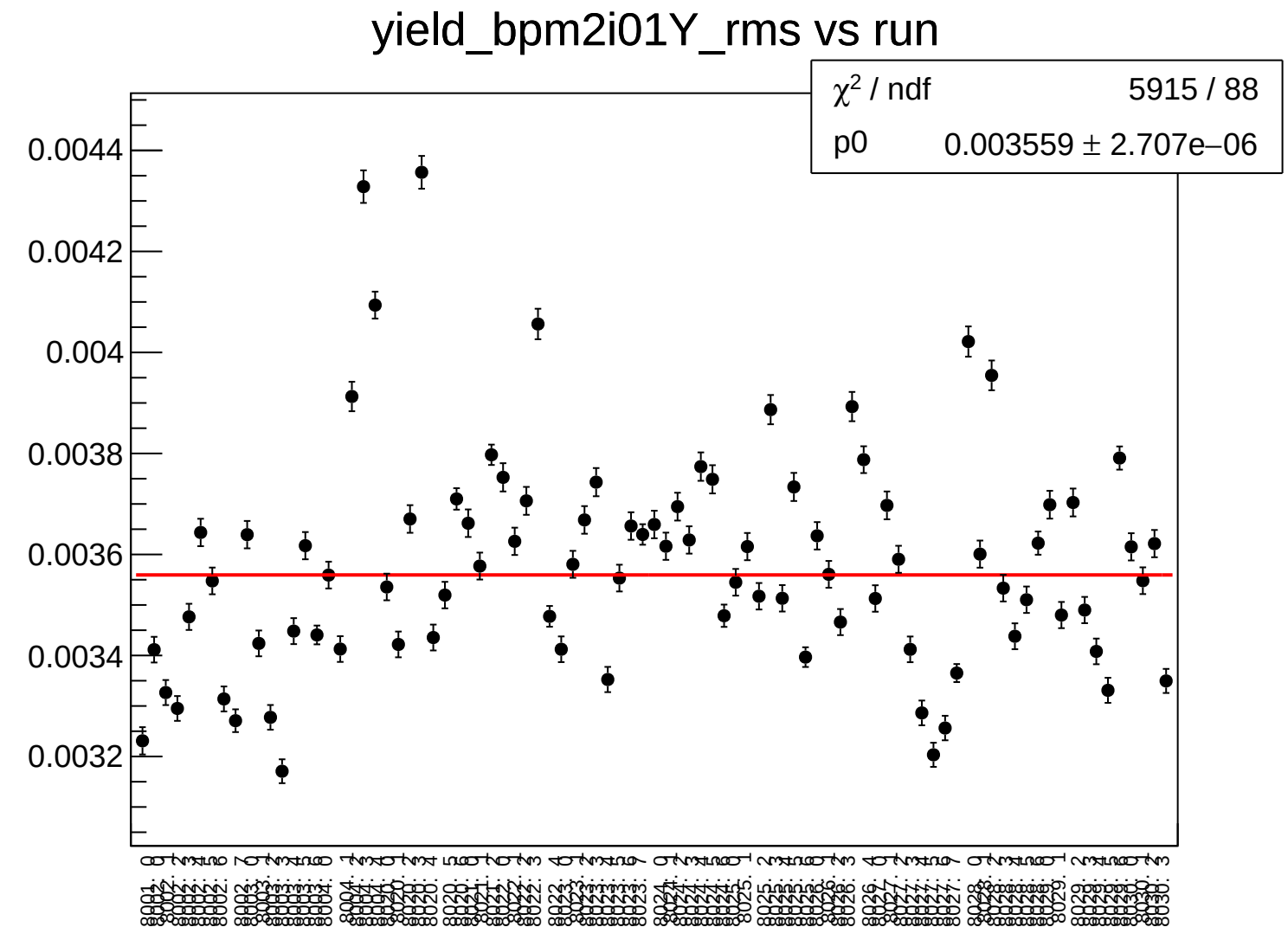

yield_bpm2i01X_mean vs run
χ² / ndf 2.042e+06 / 88
p0 0.9042 ± 5.066e−06
0.915
0.91
0.905
0.9
0.895
0.89
pull
Entries 89
Mean −378.9
Std Dev 0
200
100
0
−100
−200
−300

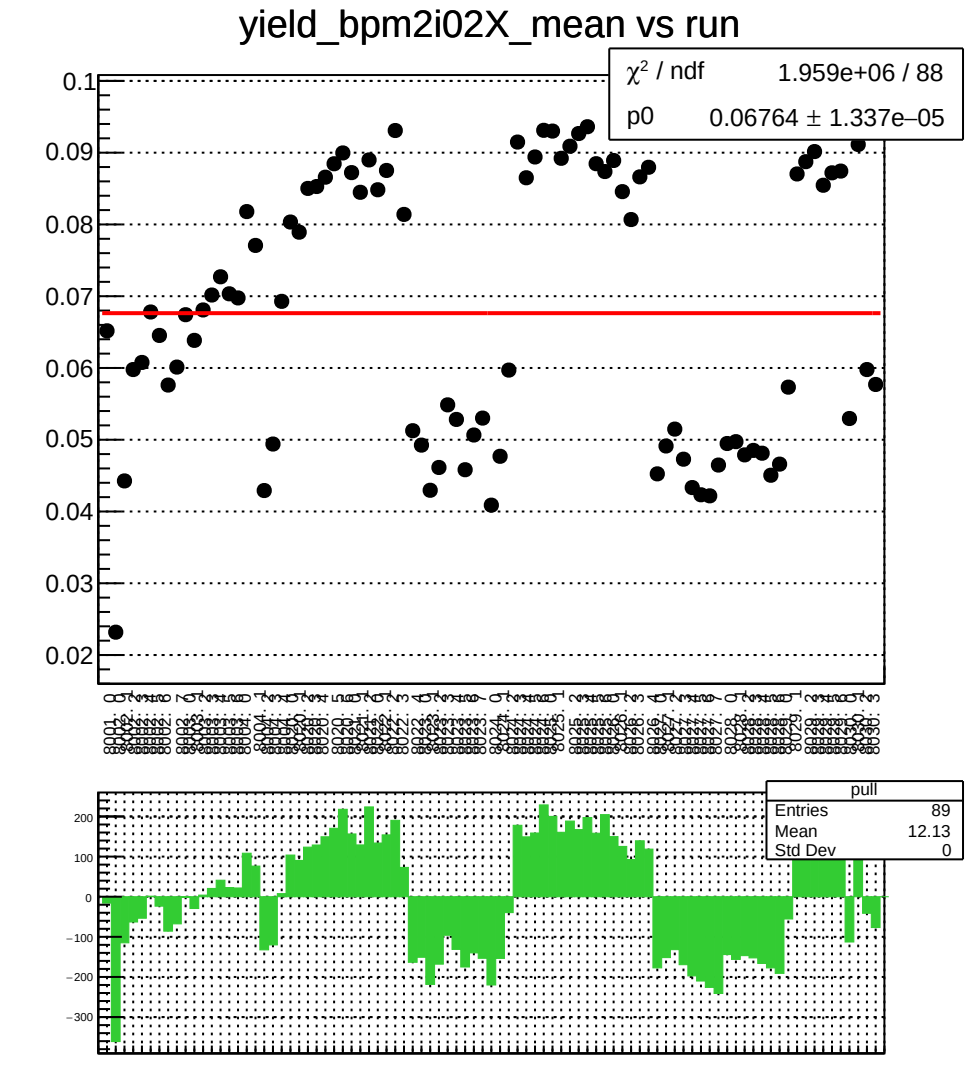

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

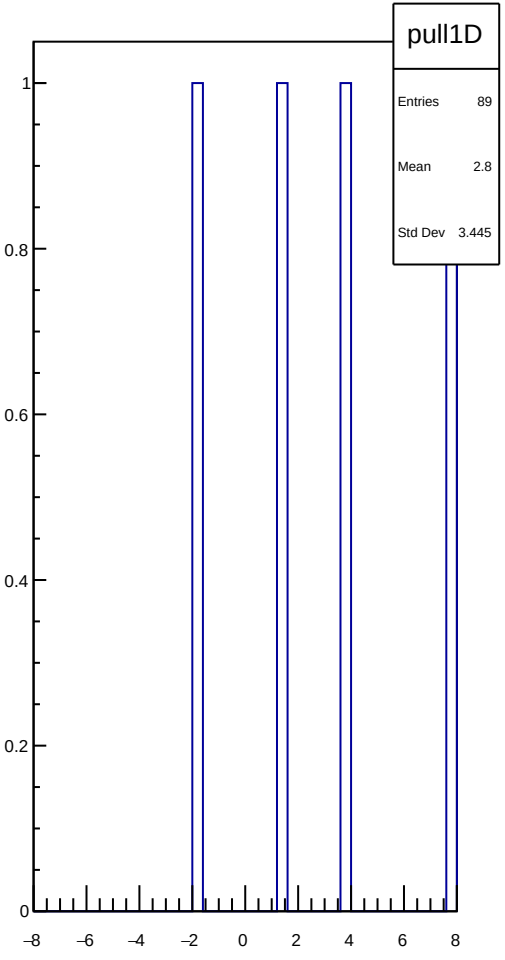

yield_bpm2i01X_rms vs run
χ² / ndf 2.133e+04 / 88
p0 0.004689 ± 3.582e−06
0.009
0.008
0.007
0.006
0.005
0.004

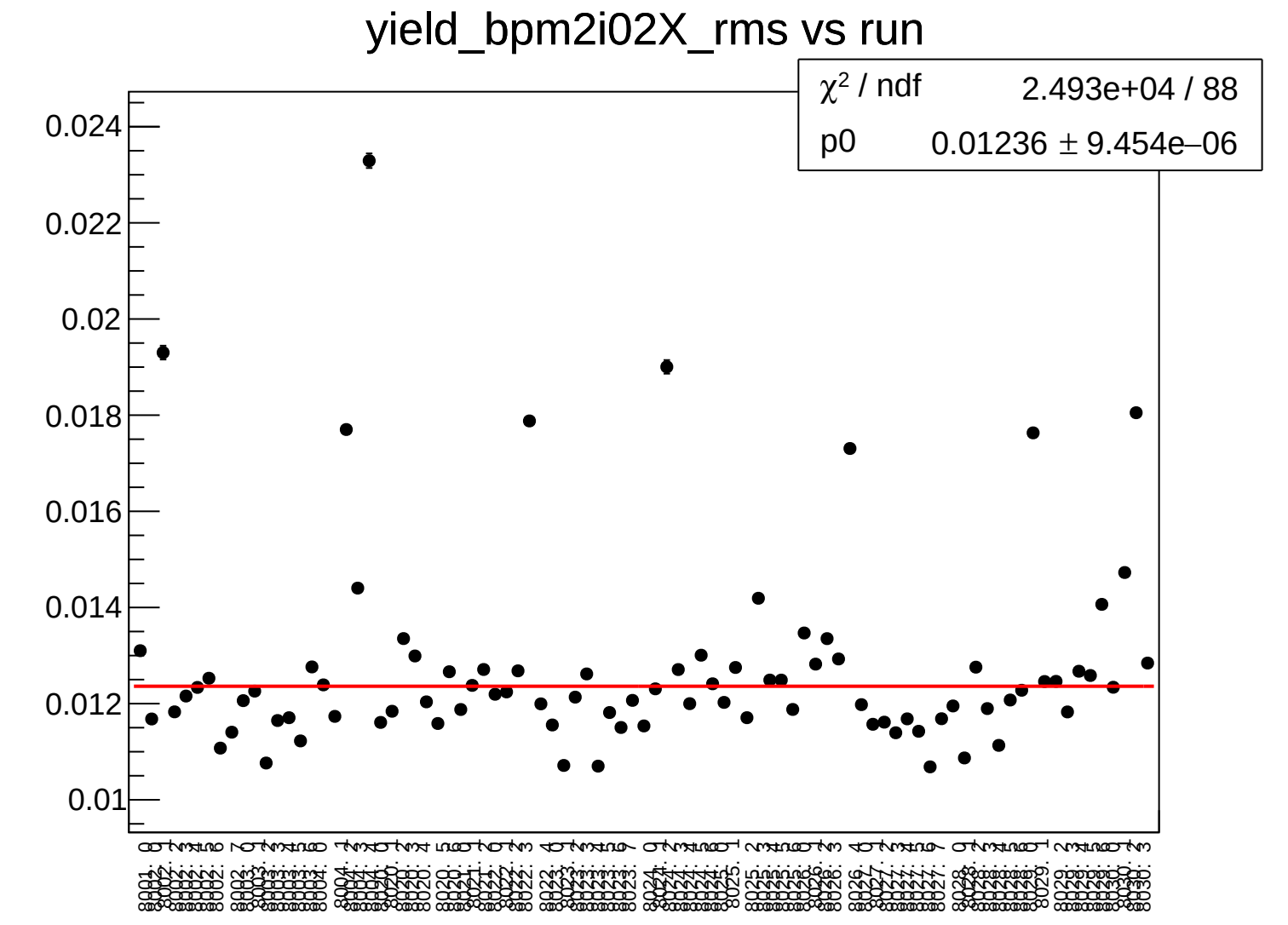

yield_bpm2i01Y_mean vs run
χ² / ndf 1.645e+06 / 88
p0 −4.747 ± 3.829e−06
−4.735
−4.74
−4.745
−4.75
−4.755
pull
Entries 89
Mean 1.3e+04
Std Dev 0
300
200
100
0
−100
−200
−300

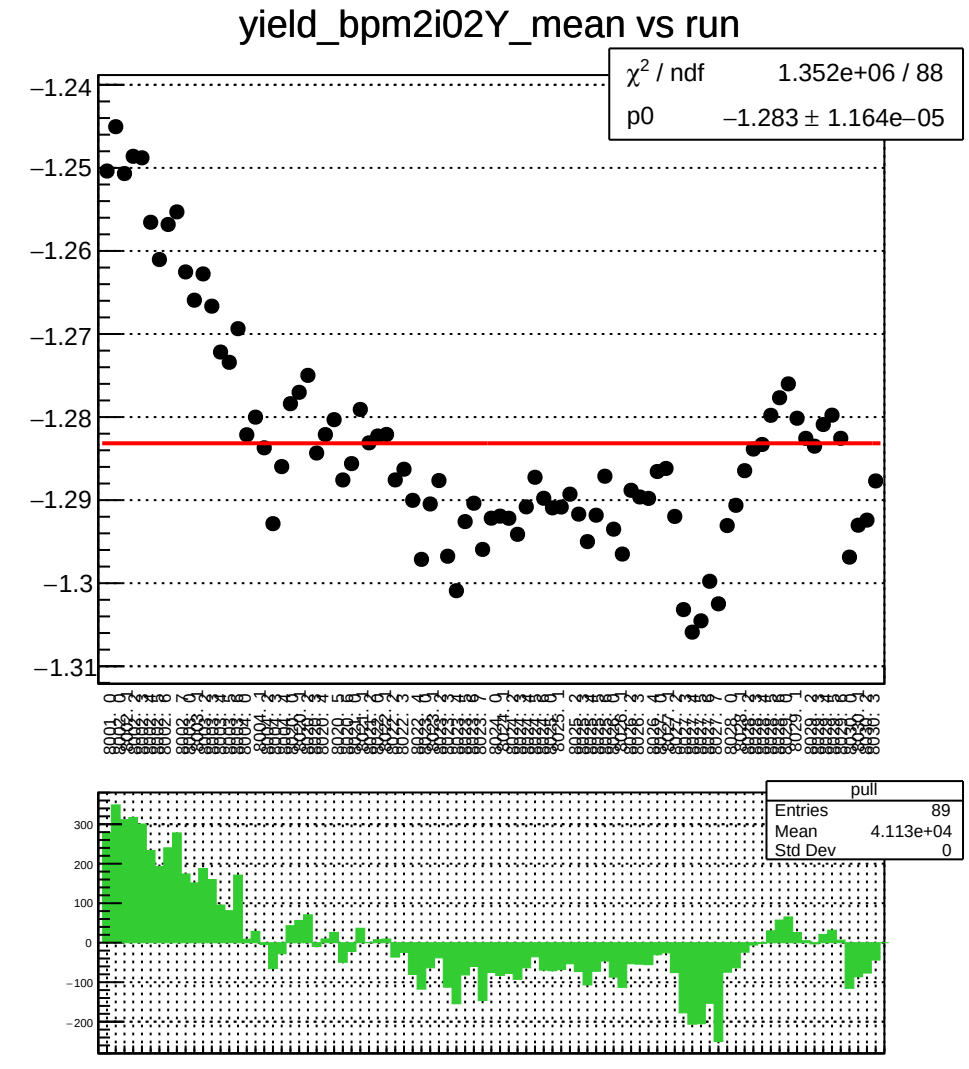

pull1D
Entries 89
Mean −1.083
Std Dev 1.435
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

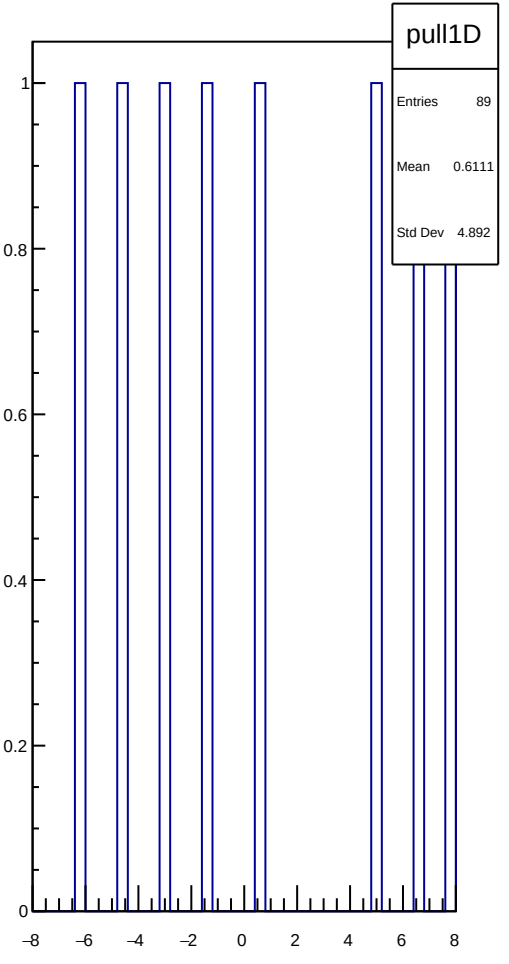

yield_bpm2i01Y_rms vs run
χ² / ndf 5915 / 88
p0 0.003559 ± 2.707e−06
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032

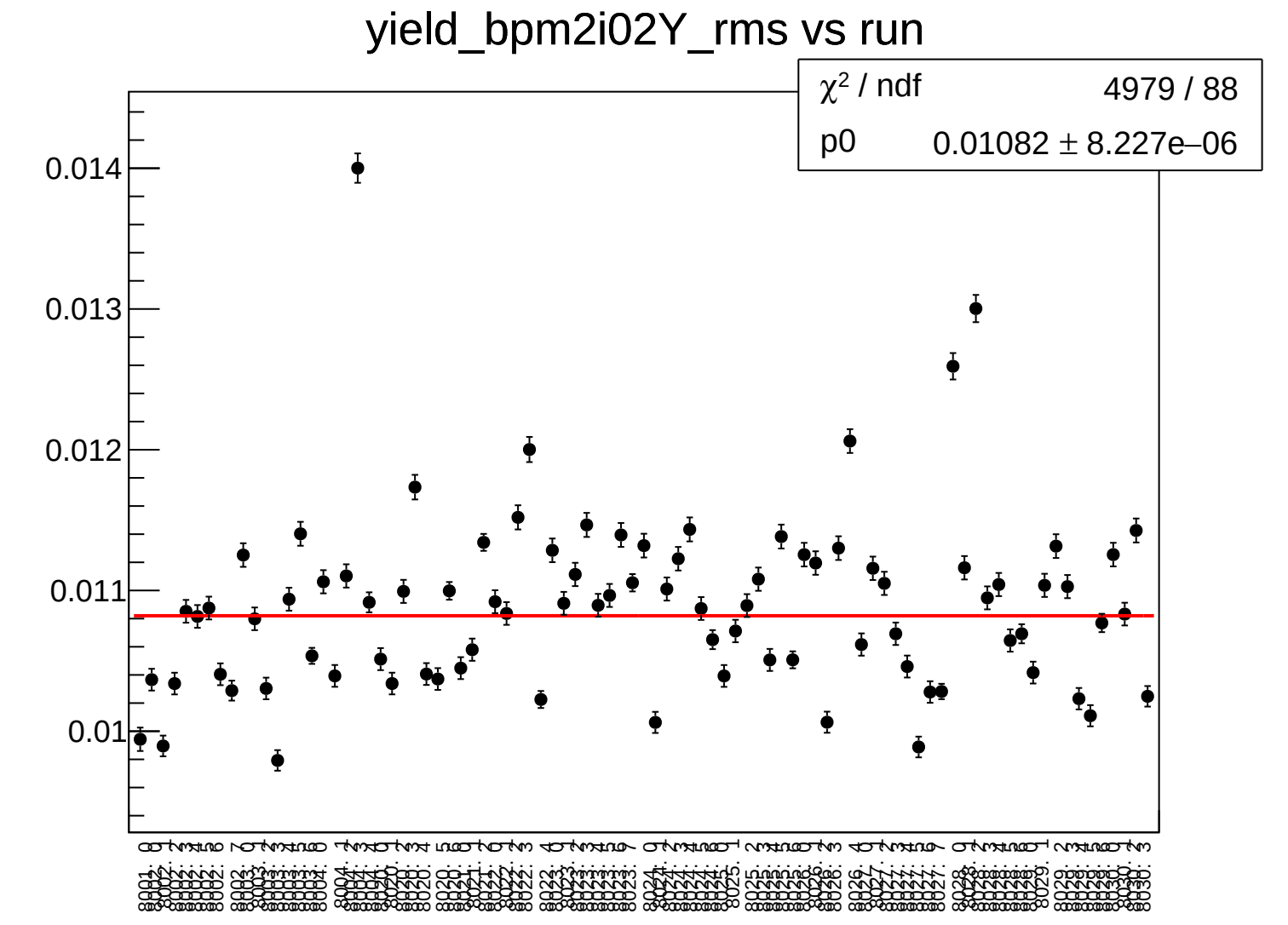

yield_bpm2i02X_mean vs run
χ² / ndf 1.959e+06 / 88
p0 0.06764 ± 1.337e−05
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
pull
Entries 89
Mean 12.13
Std Dev 0
200
100
0
−100
−200
−300

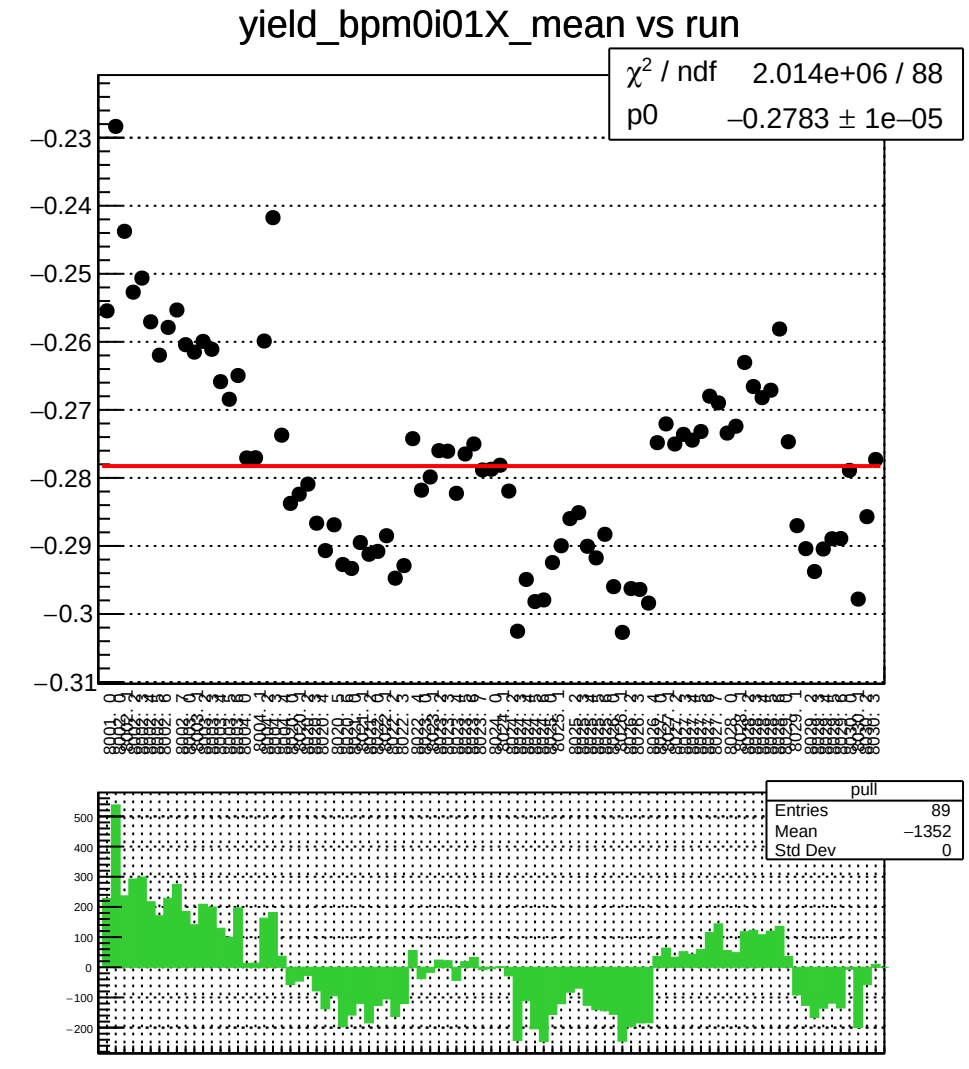

pull1D
Entries 89
Mean 2.8
Std Dev 3.445
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

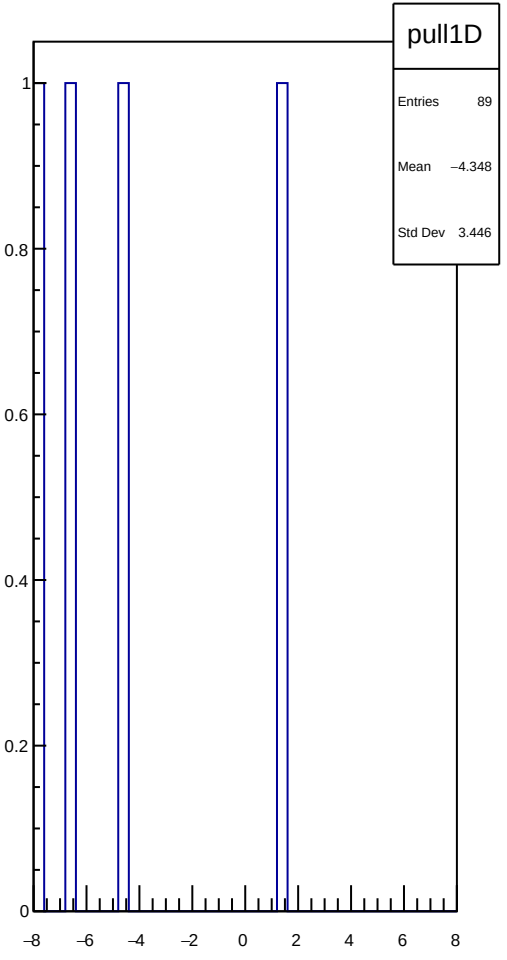

yield_bpm2i02X_rms vs run
χ² / ndf 2.493e+04 / 88
p0 0.01236 ± 9.454e–06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

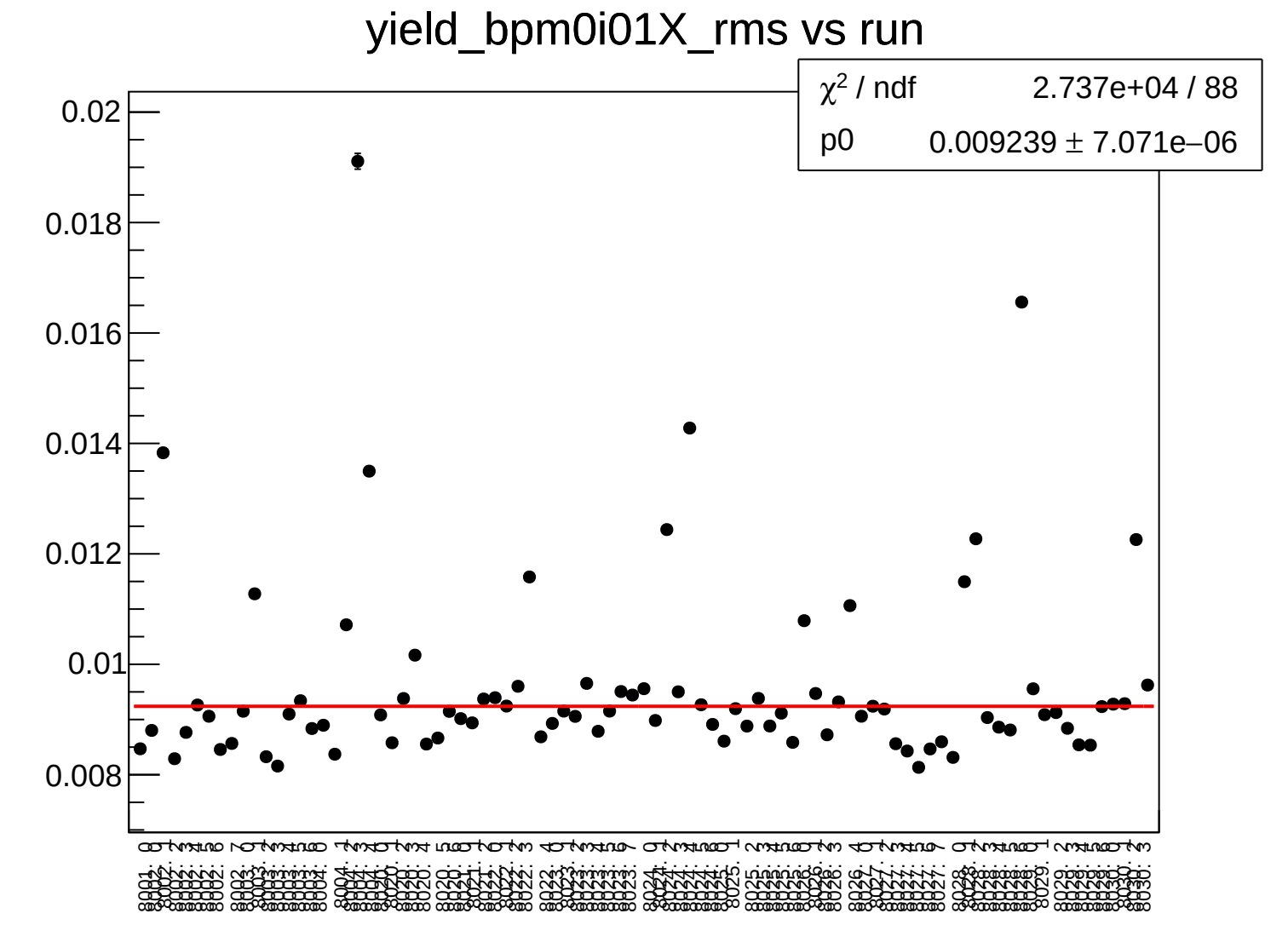

yield_bpm2i02Y_mean vs run
χ² / ndf 1.352e+06 / 88
p0 −1.283 ± 1.164e−05
−1.24
−1.25
−1.26
−1.27
−1.28
−1.29
−1.3
−1.31
pull
Entries 89
Mean 4.113e+04
Std Dev 0
300
200
100
0
−100
−200

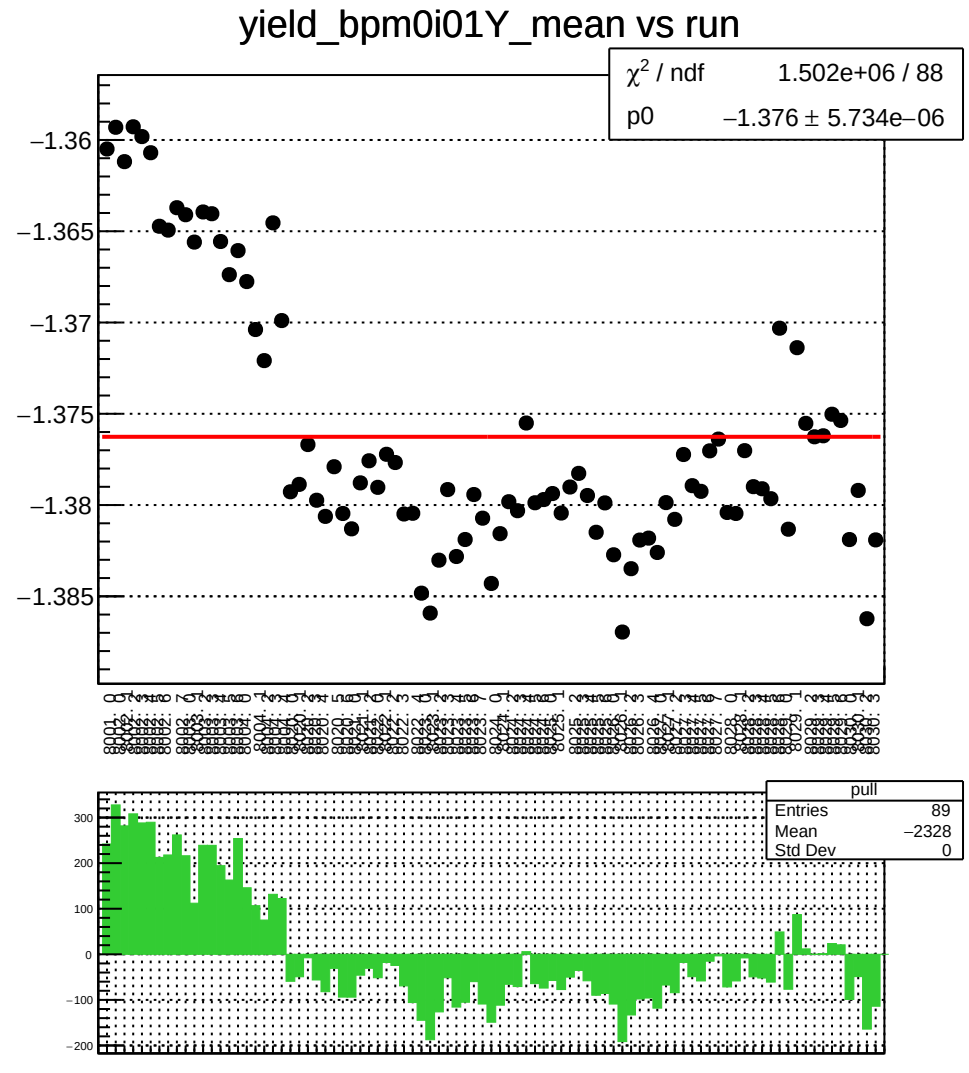

pull1D
Entries 89
Mean 0.6111
Std Dev 4.892
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

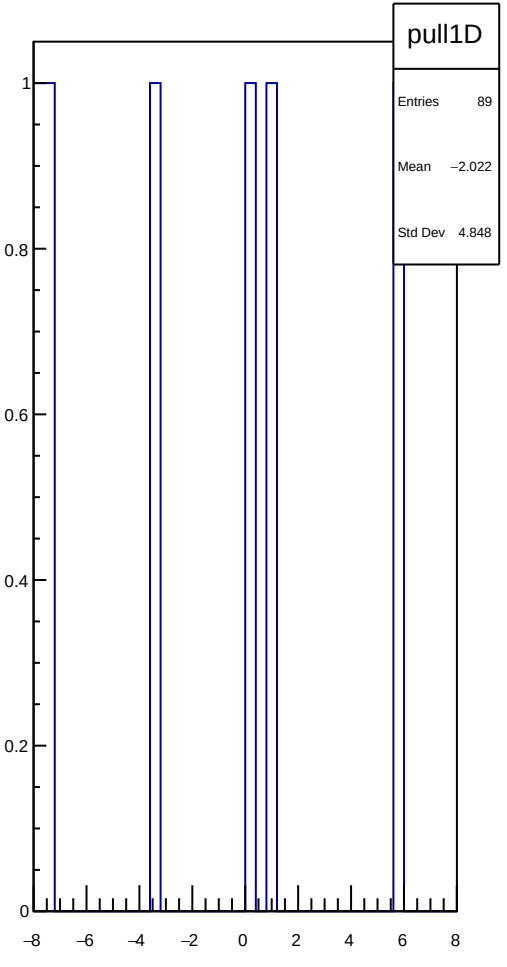

yield_bpm2i02Y_rms vs run
χ² / ndf 4979 / 88
p0 0.01082 ± 8.227e–06
0.014
0.013
0.012
0.011
0.01

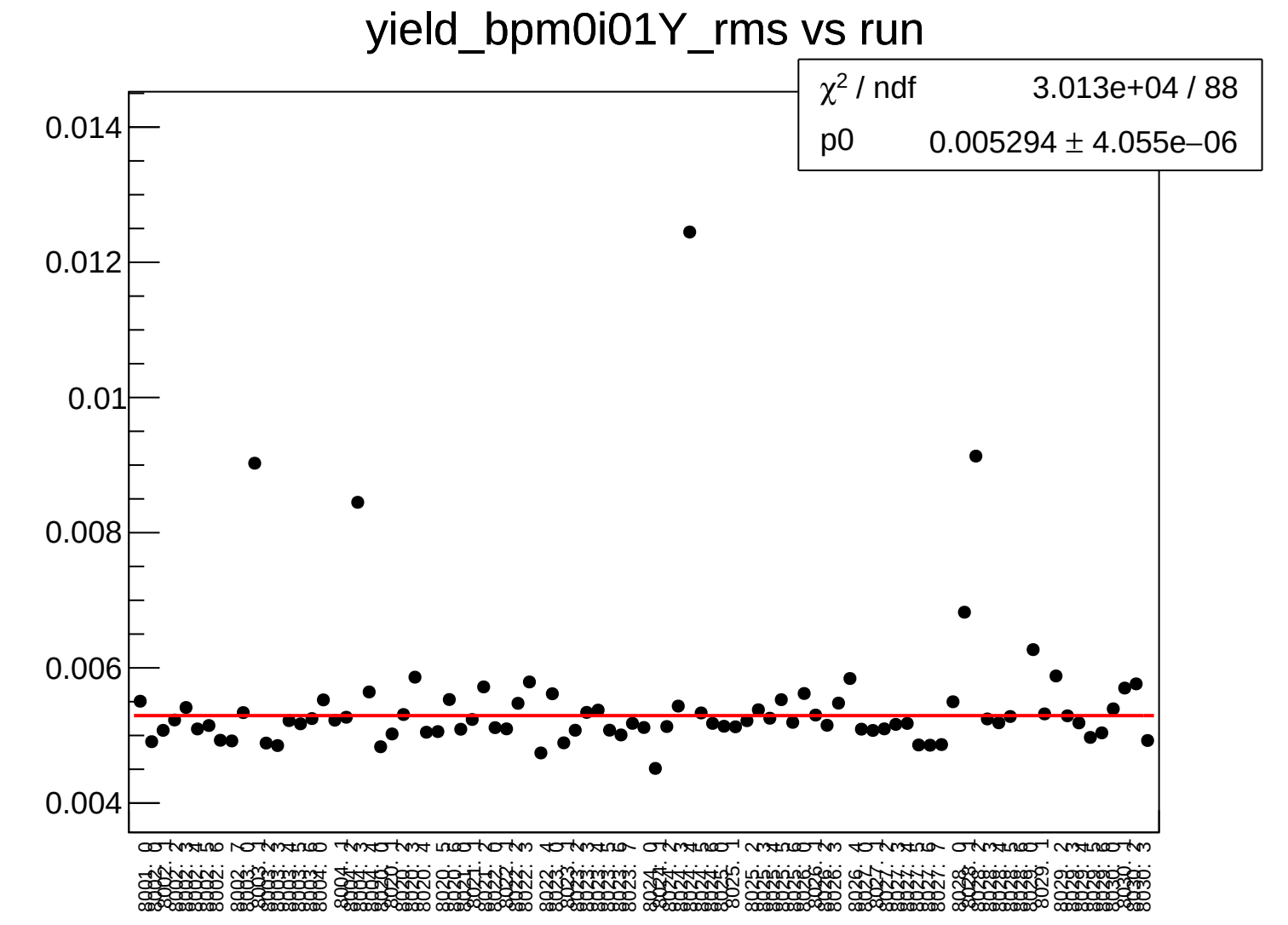

yield_bpm0i01X_mean vs run
χ² / ndf 2.014e+06 / 88
p0 −0.2783 ± 1e−05
−0.23
−0.24
−0.25
−0.26
−0.27
−0.28
−0.29
−0.3
−0.31
pull
Entries 89
Mean −1352
Std Dev 0
500
400
300
200
100
0
−100
−200

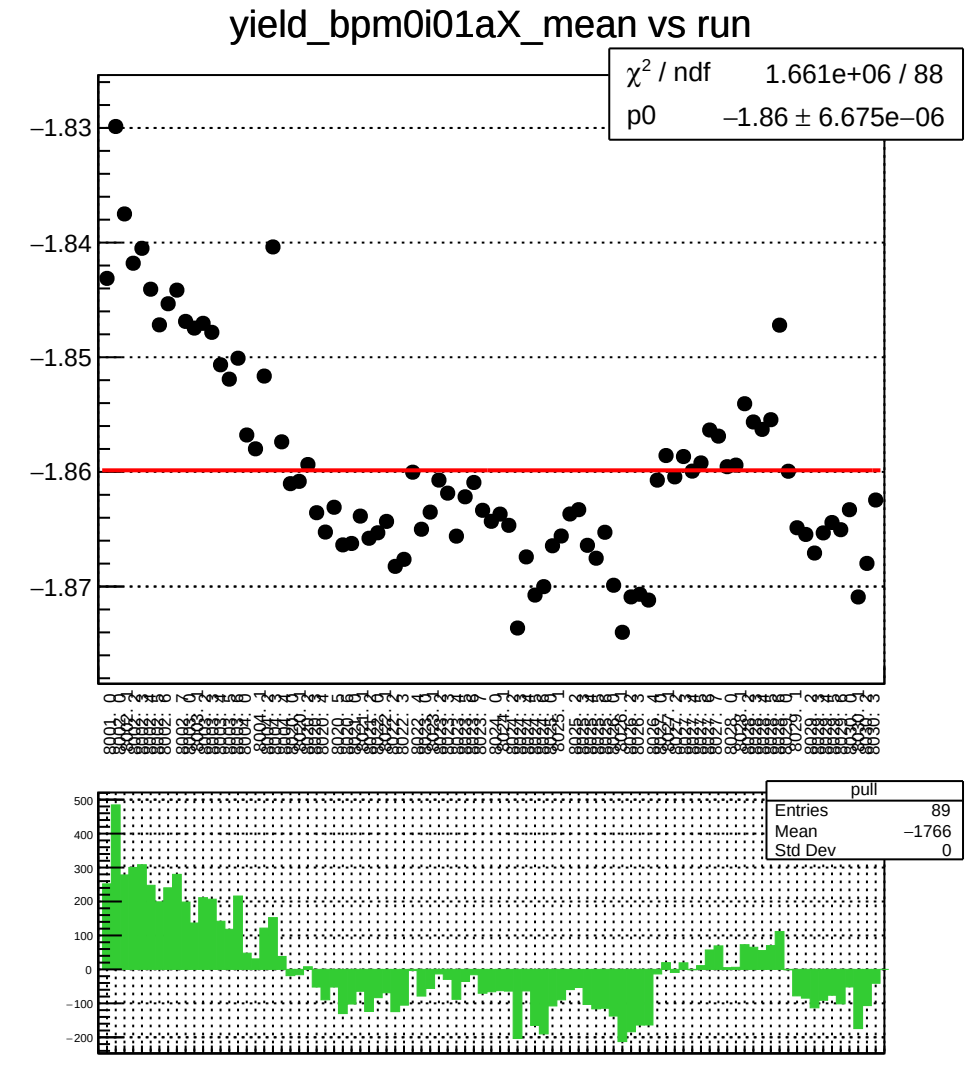

pull1D
Entries 89
Mean −4.348
Std Dev 3.446
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

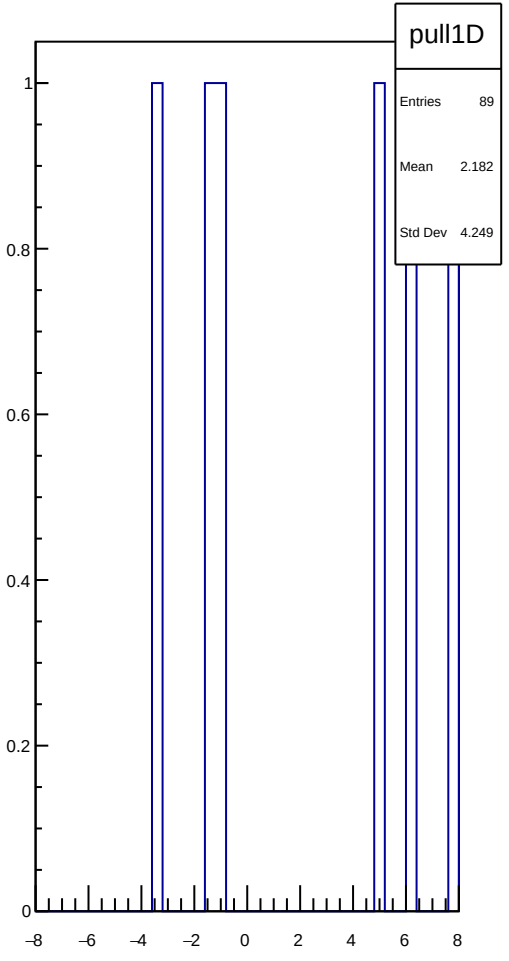

yield_bpm0i01X_rms vs run
χ² / ndf 2.737e+04 / 88
p0 0.009239 ± 7.071e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008

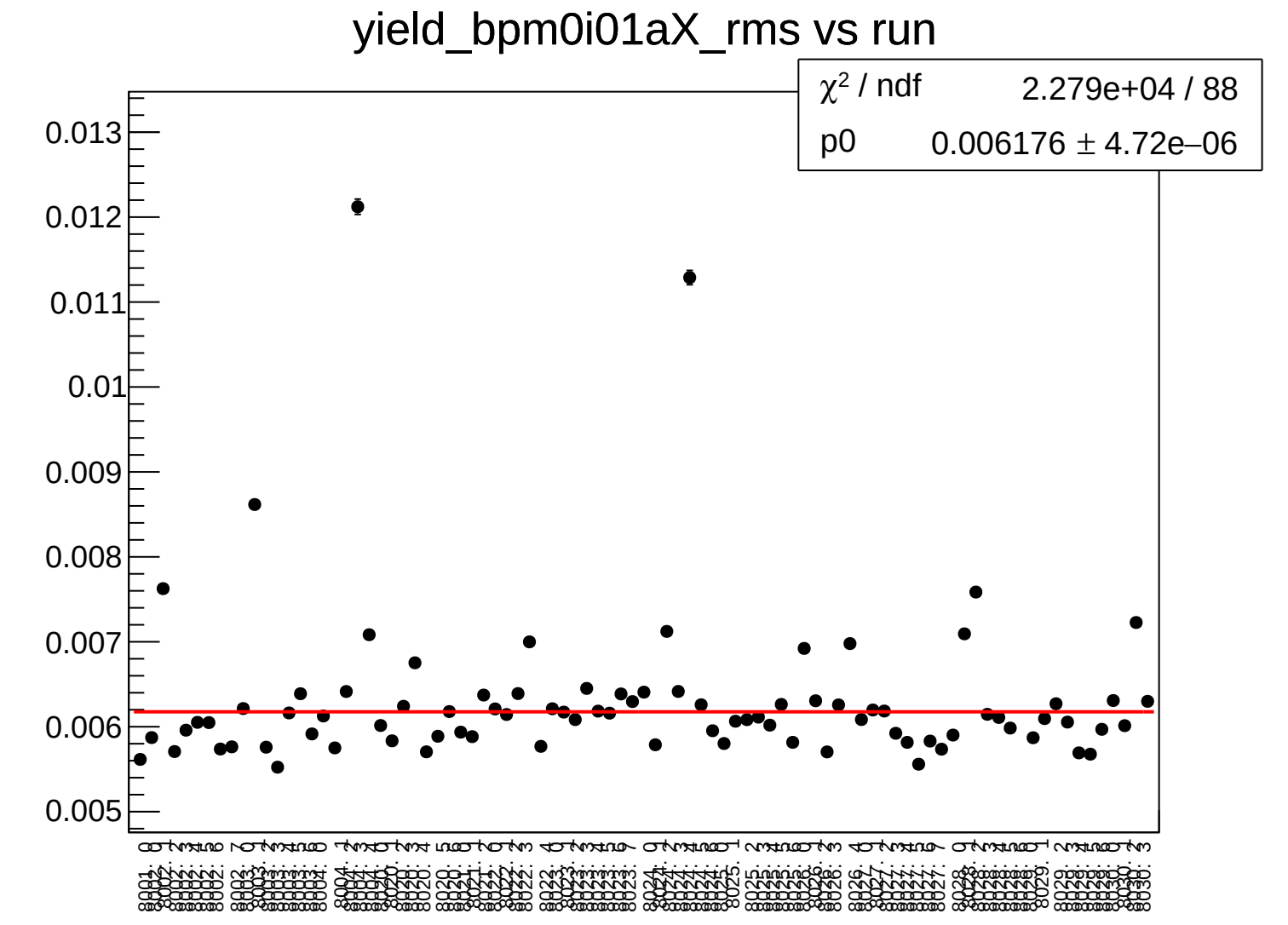

yield_bpm0i01Y_mean vs run
χ² / ndf 1.502e+06 / 88
p0 −1.376 ± 5.734e−06
−1.36
−1.365
−1.37
−1.375
−1.38
−1.385
pull
Entries 89
Mean −2328
Std Dev 0
300
200
100
0
−100
−200

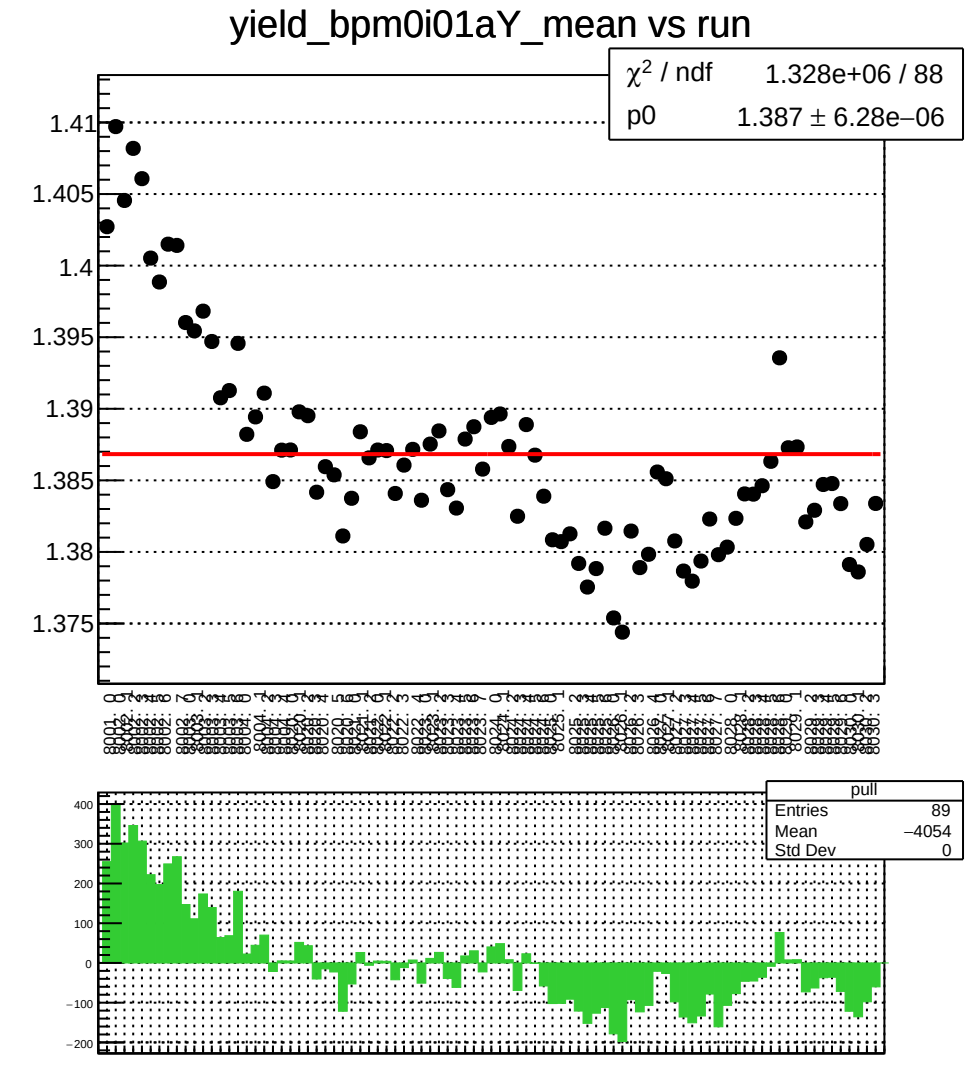

pull1D
Entries 89
Mean −2.022
Std Dev 4.848
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

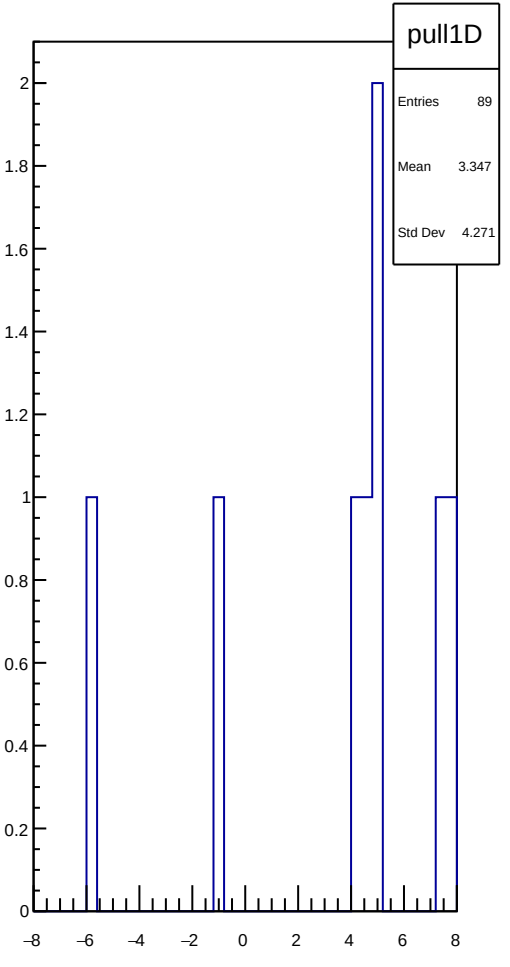

yield_bpm0i01Y_rms vs run
χ² / ndf 3.013e+04 / 88
p0 0.005294 ± 4.055e−06
0.014
0.012
0.01
0.008
0.006
0.004

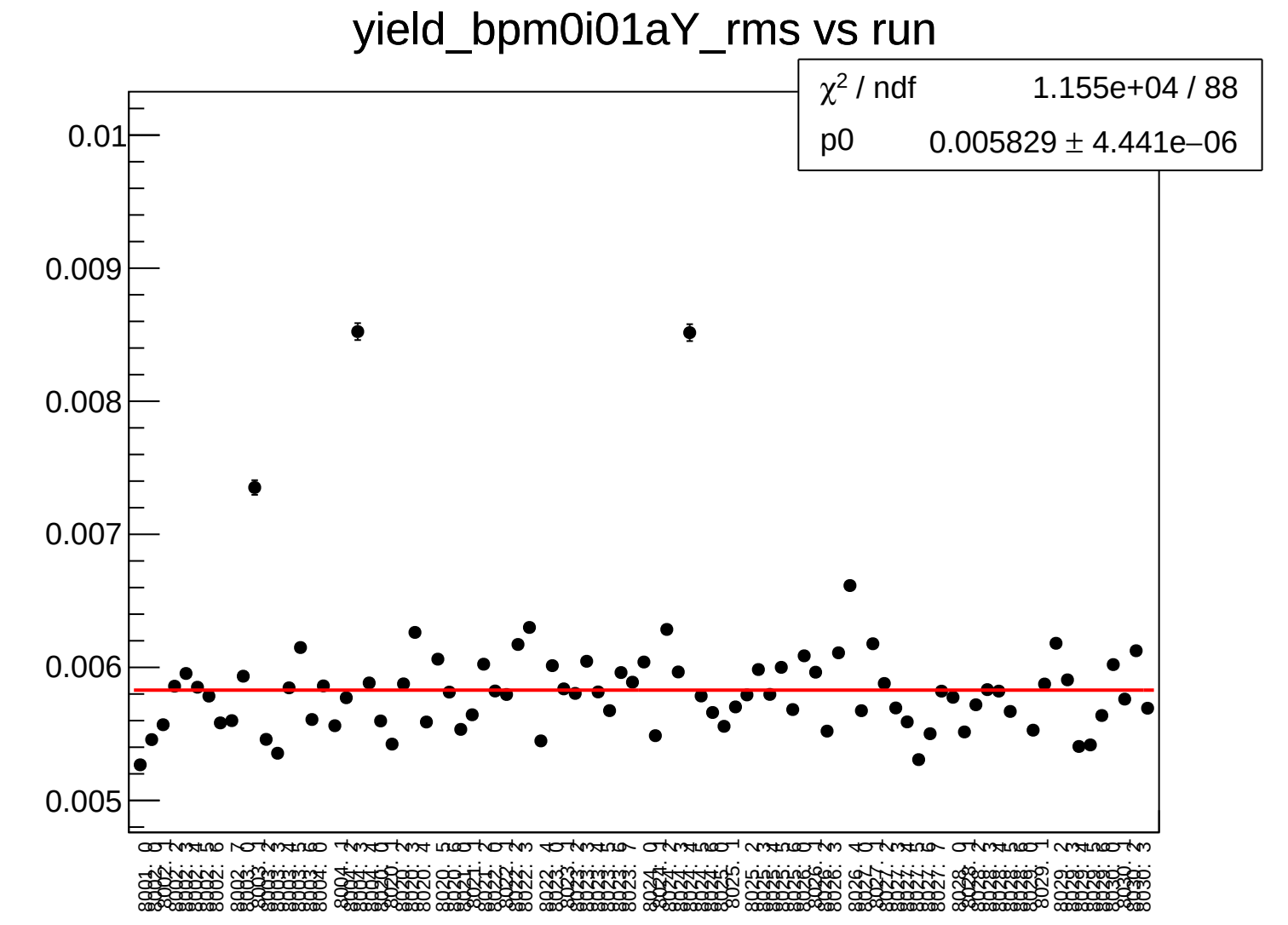

yield_bpm0i01aX_mean vs run
χ² / ndf 1.661e+06 / 88
p0 −1.86 ± 6.675e−06
−1.83
−1.84
−1.85
−1.86
−1.87
pull
Entries 89
Mean −1766
Std Dev 0
500
400
300
200
100
0
−100
−200

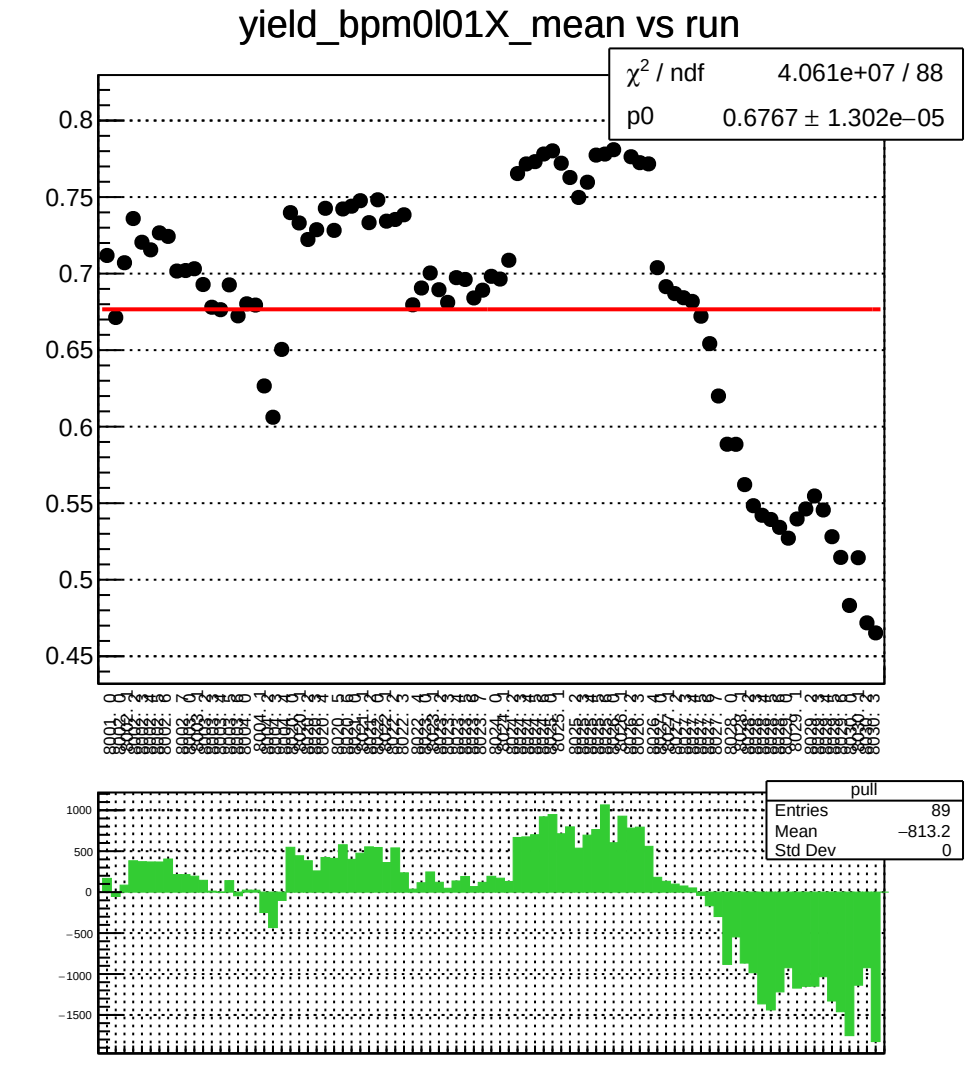

pull1D
Entries 89
Mean 2.182
Std Dev 4.249
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

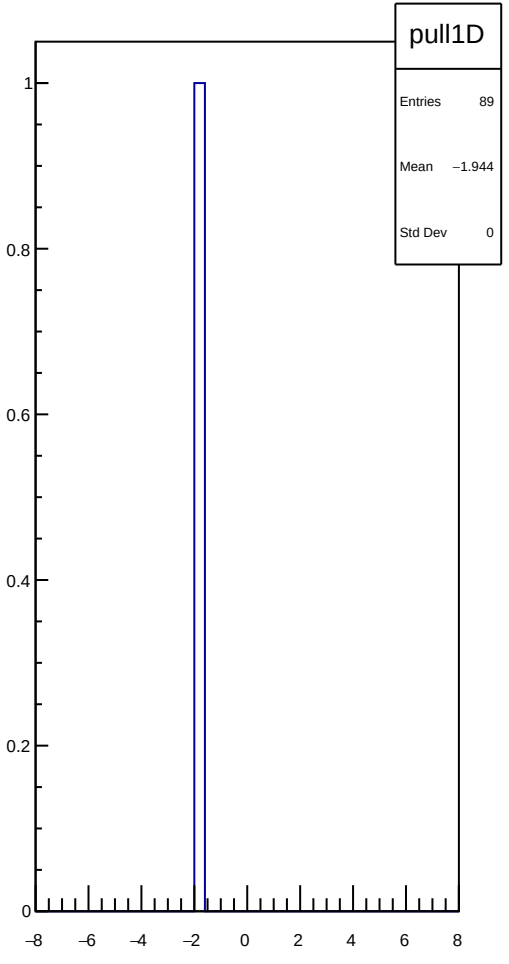

yield_bpm0i01aX_rms vs run
χ² / ndf 2.279e+04 / 88
p0 0.006176 ± 4.72e–06
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005

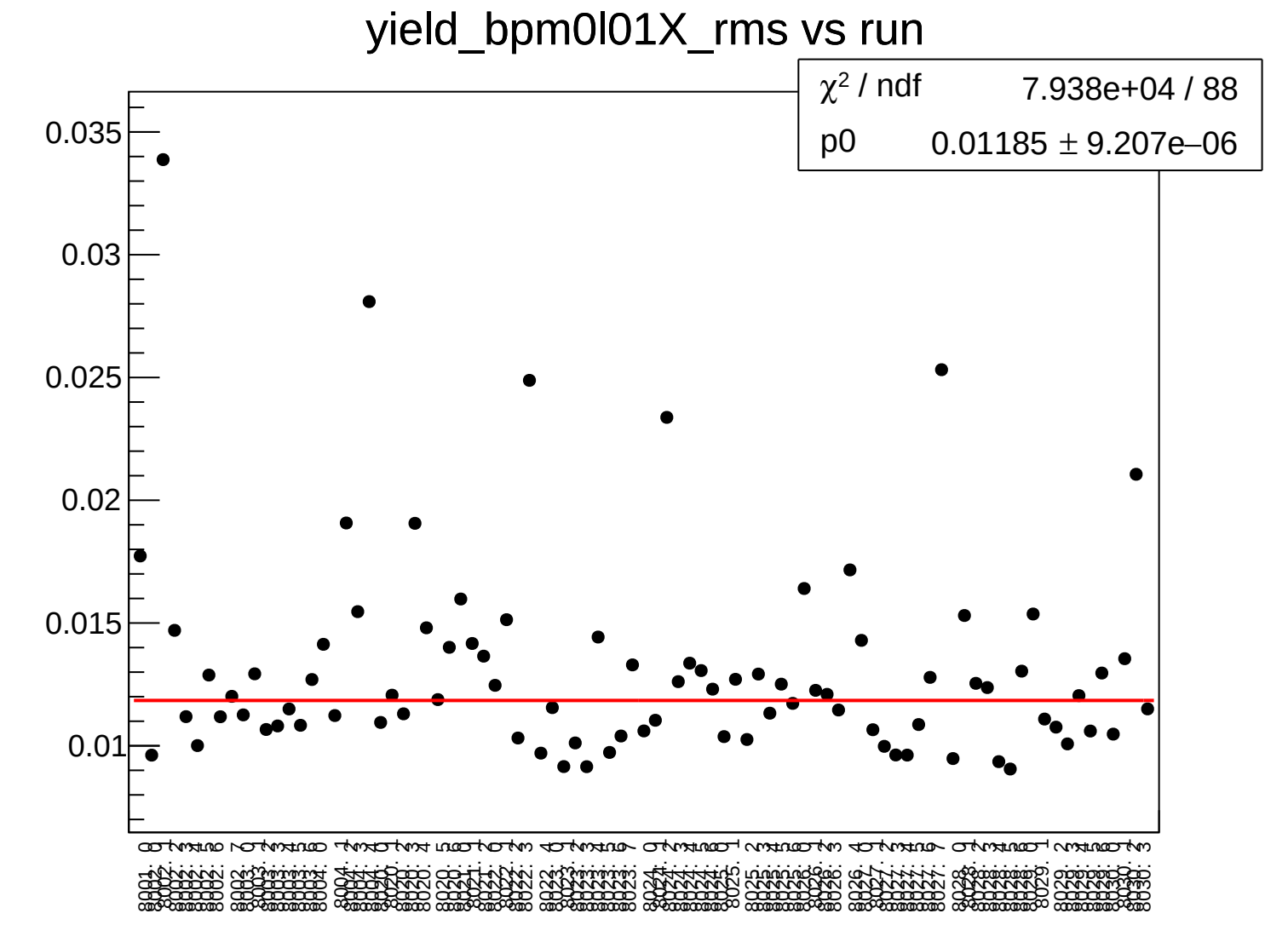

yield_bpm0i01aY_mean vs run
χ² / ndf 1.328e+06 / 88
p0 1.387 ± 6.28e−06
1.41
1.405
1.4
1.395
1.39
1.385
1.38
1.375
pull
Entries 89
Mean −4054
Std Dev 0
400
300
200
100
0
−100
−200

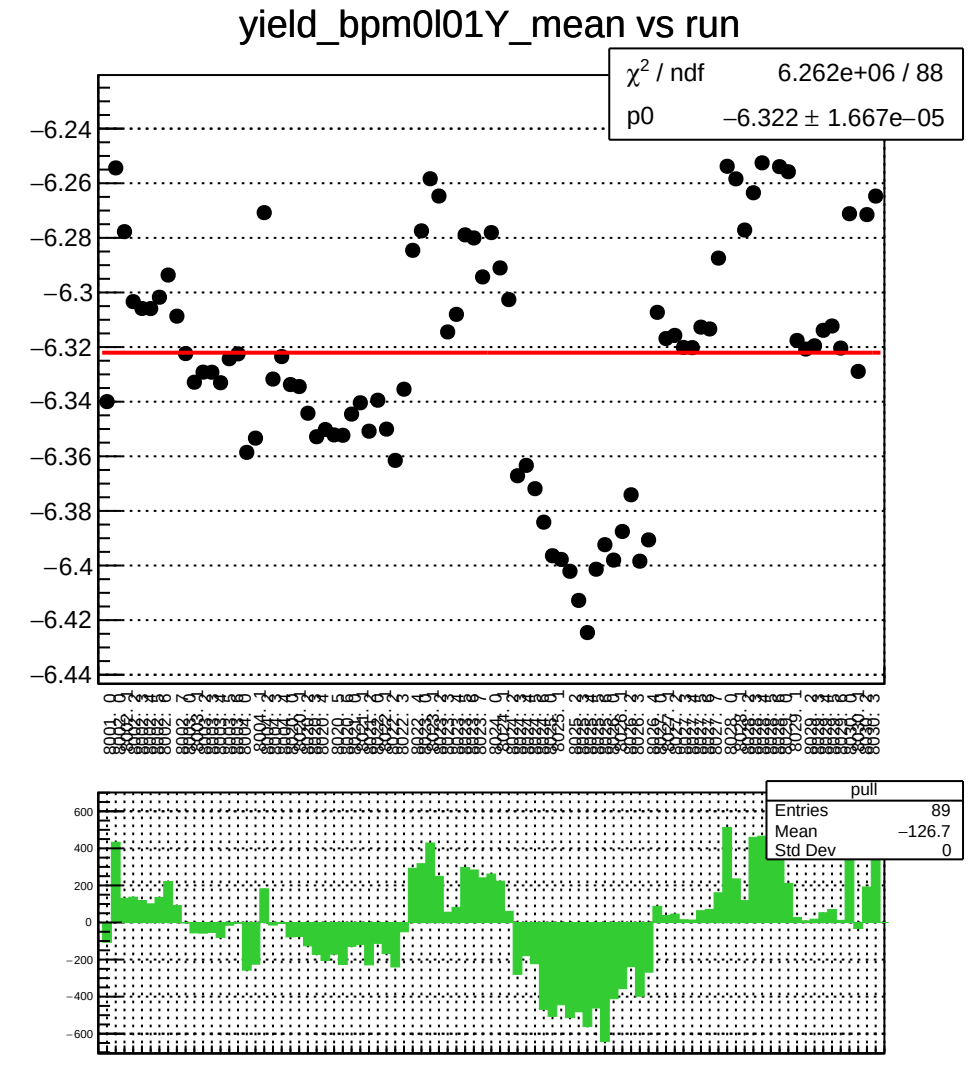

pull1D
Entries 89
Mean 3.347
Std Dev 4.271
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

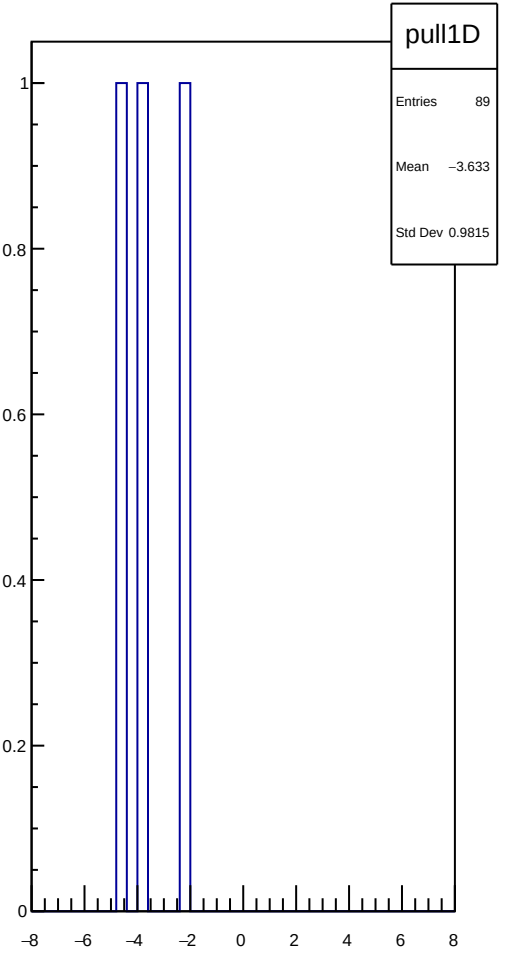

yield_bpm0i01aY_rms vs run
χ² / ndf 1.155e+04 / 88
p0 0.005829 ± 4.441e−06
0.01
0.009
0.008
0.007
0.006
0.005

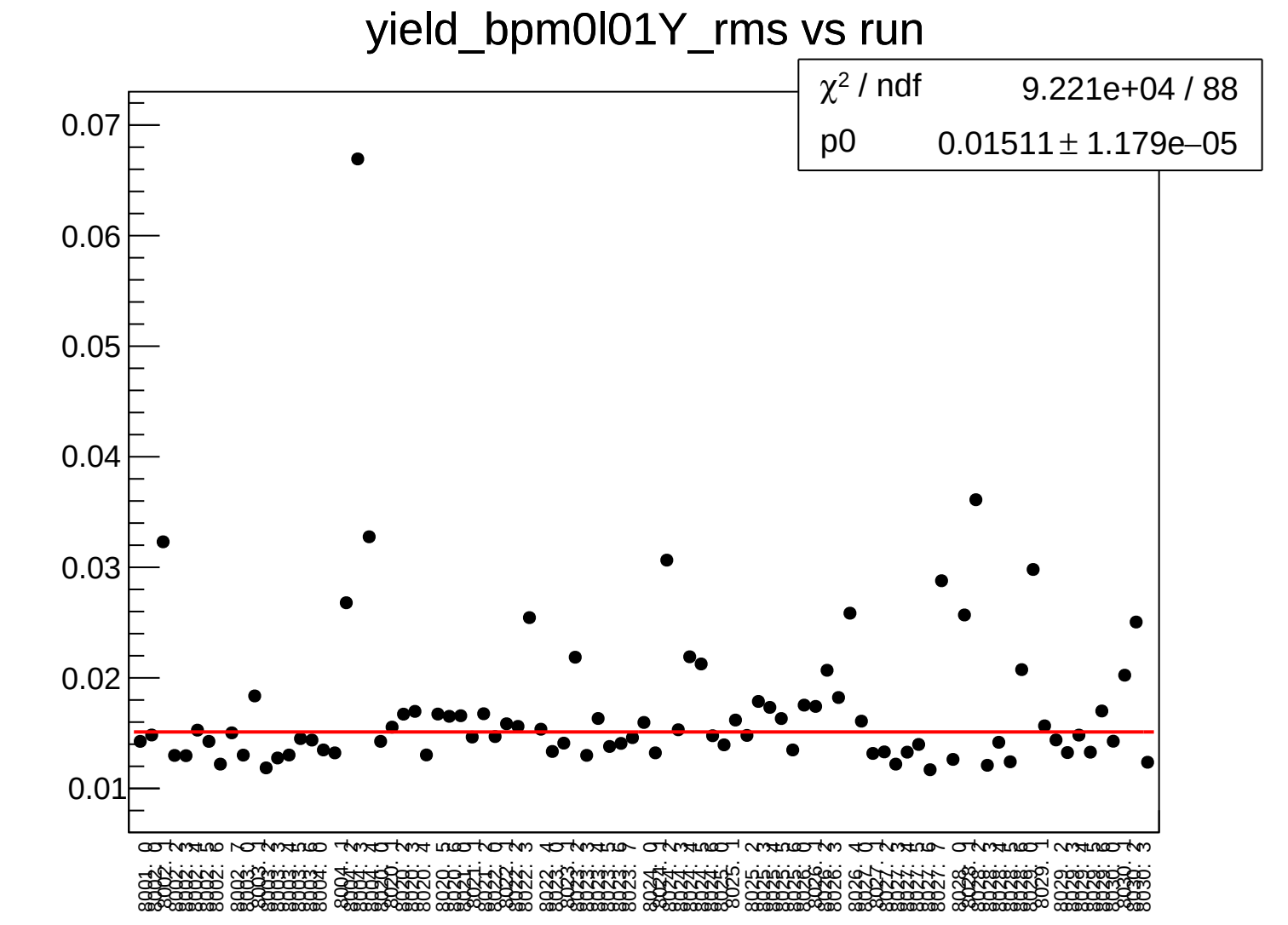

yield_bpm0l01X_mean vs run
χ² / ndf 4.061e+07 / 88
p0 0.6767 ± 1.302e−05
0.8
0.75
0.7
0.65
0.6
0.55
0.5
0.45
pull
Entries 89
Mean −813.2
Std Dev 0
1000
500
0
−500
−1000
−1500

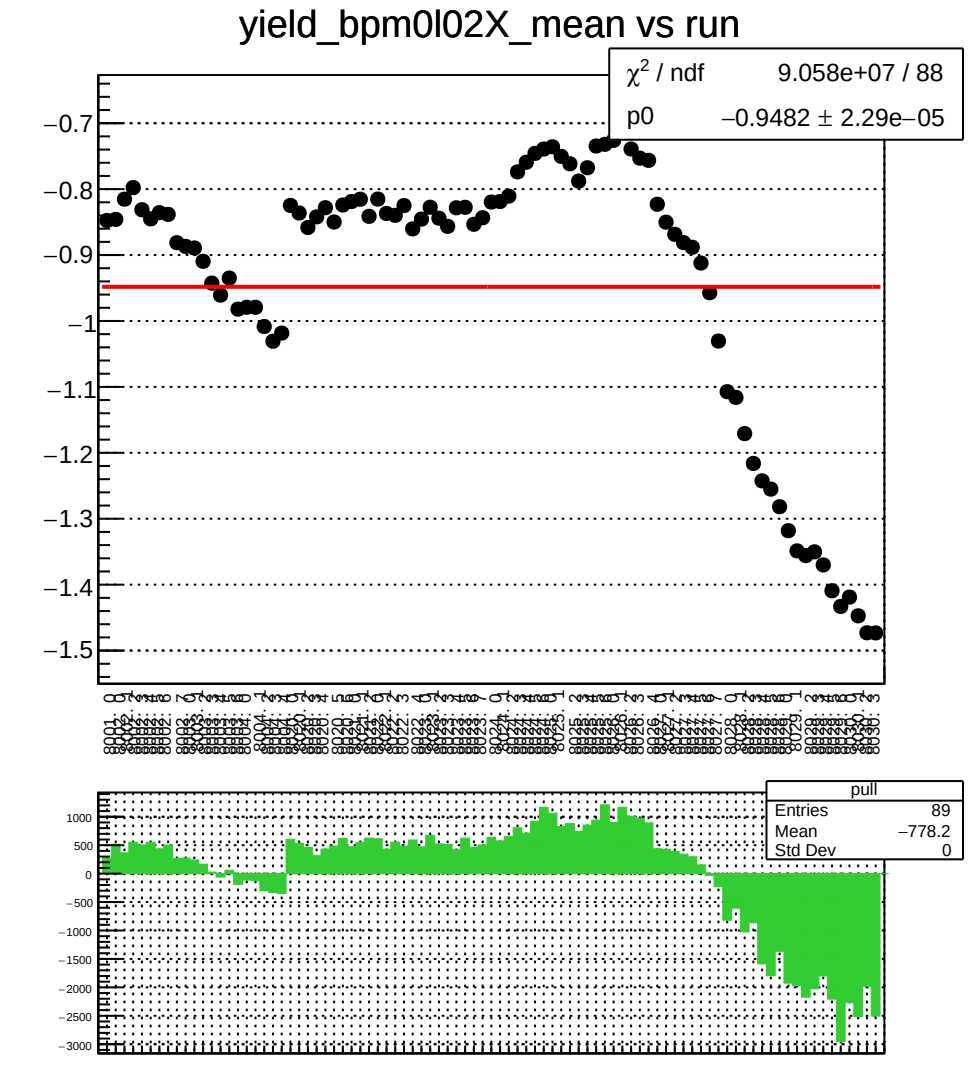

pull1D
Entries 89
Mean −1.944
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

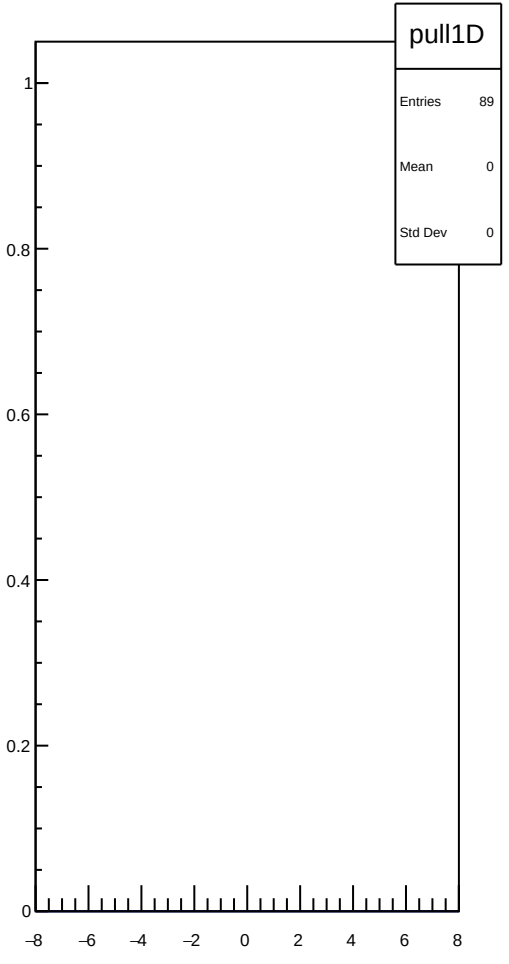

yield_bpm0l01X_rms vs run
χ² / ndf 7.938e+04 / 88
p0 0.01185 ± 9.207e–06
0.035
0.03
0.025
0.02
0.015
0.01

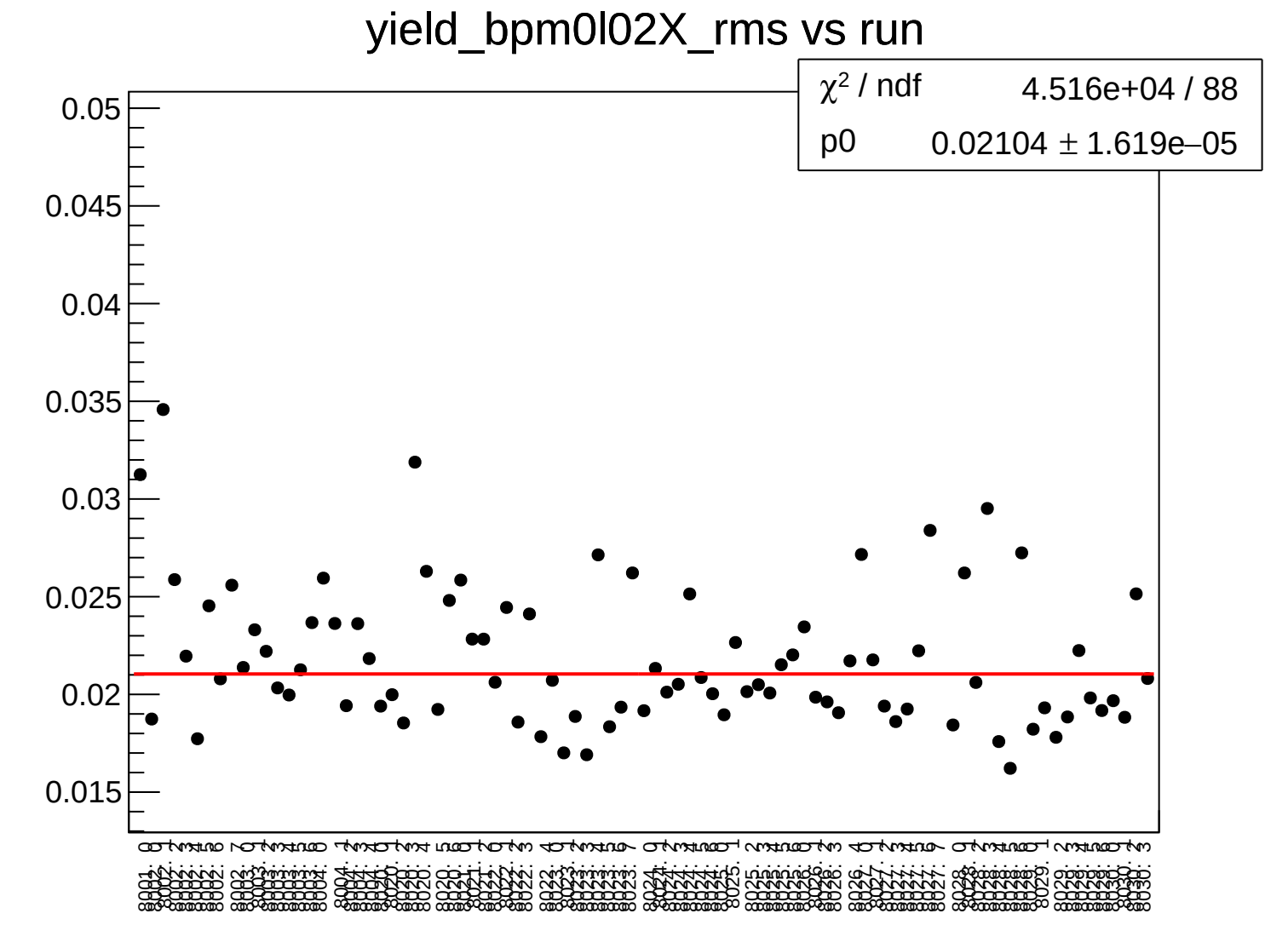

yield_bpm0l01Y_mean vs run
χ² / ndf 6.262e+06 / 88
p0 −6.322 ± 1.667e−05
−6.24
−6.26
−6.28
−6.3
−6.32
−6.34
−6.36
−6.38
−6.4
−6.42
−6.44
pull
Entries 89
Mean −126.7
Std Dev 0
600
400
200
0
−200
−400
−600

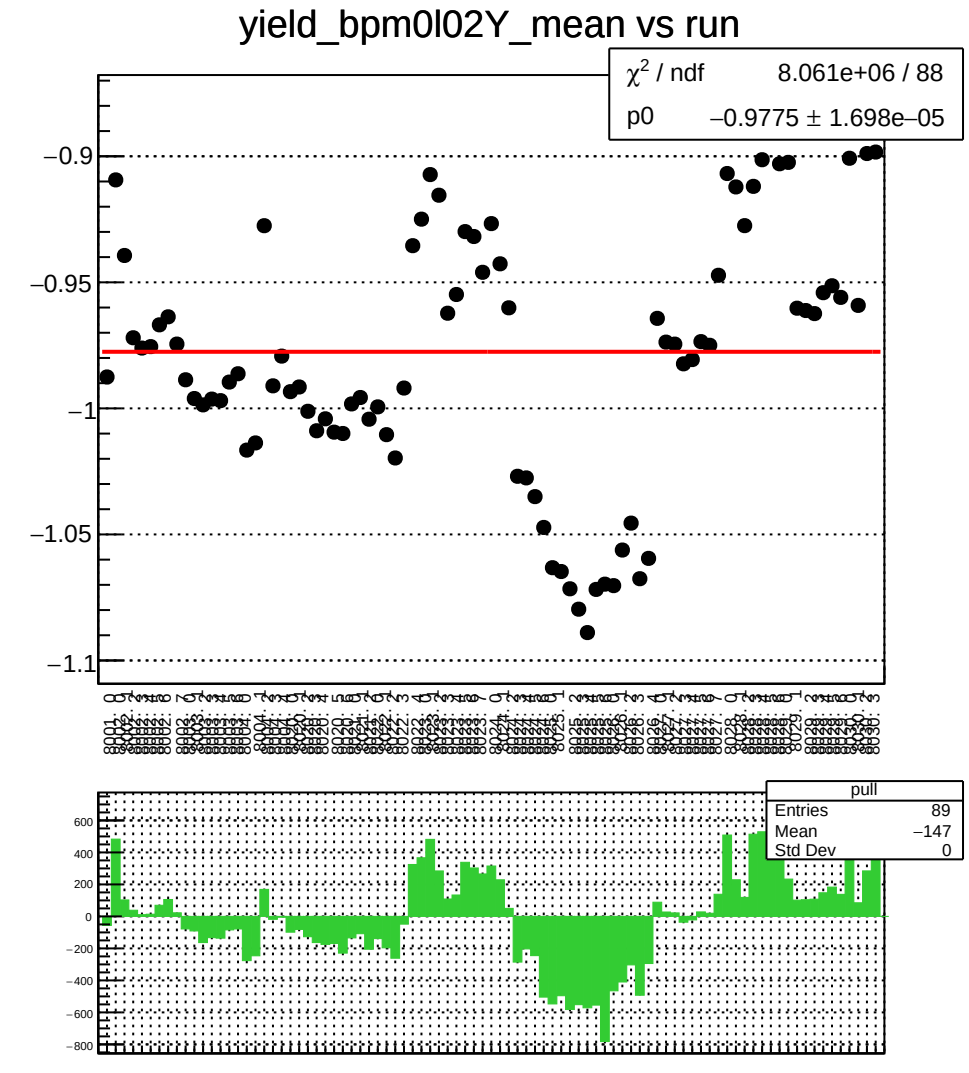

pull1D
Entries 89
Mean −3.633
Std Dev 0.9815
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

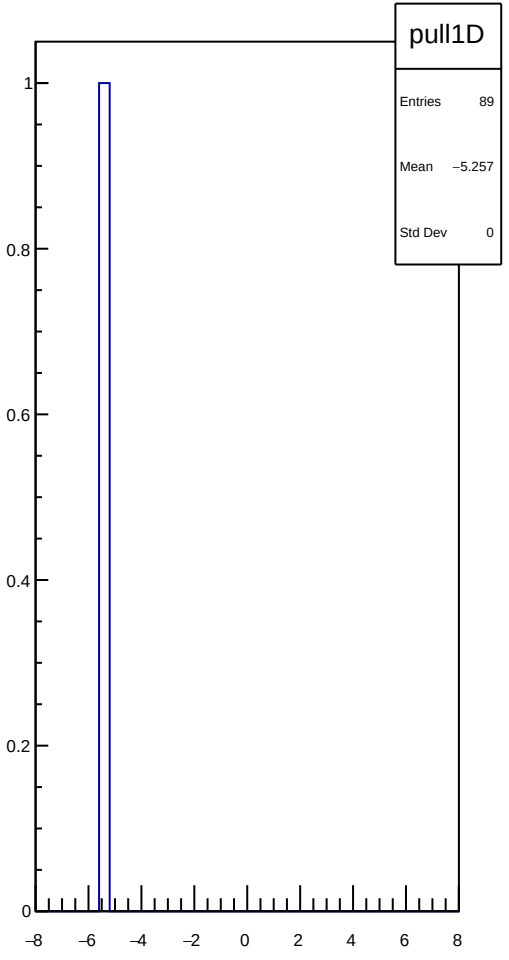

yield_bpm0l01Y_rms vs run
χ² / ndf 9.221e+04 / 88
p0 0.01511 ± 1.179e–05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

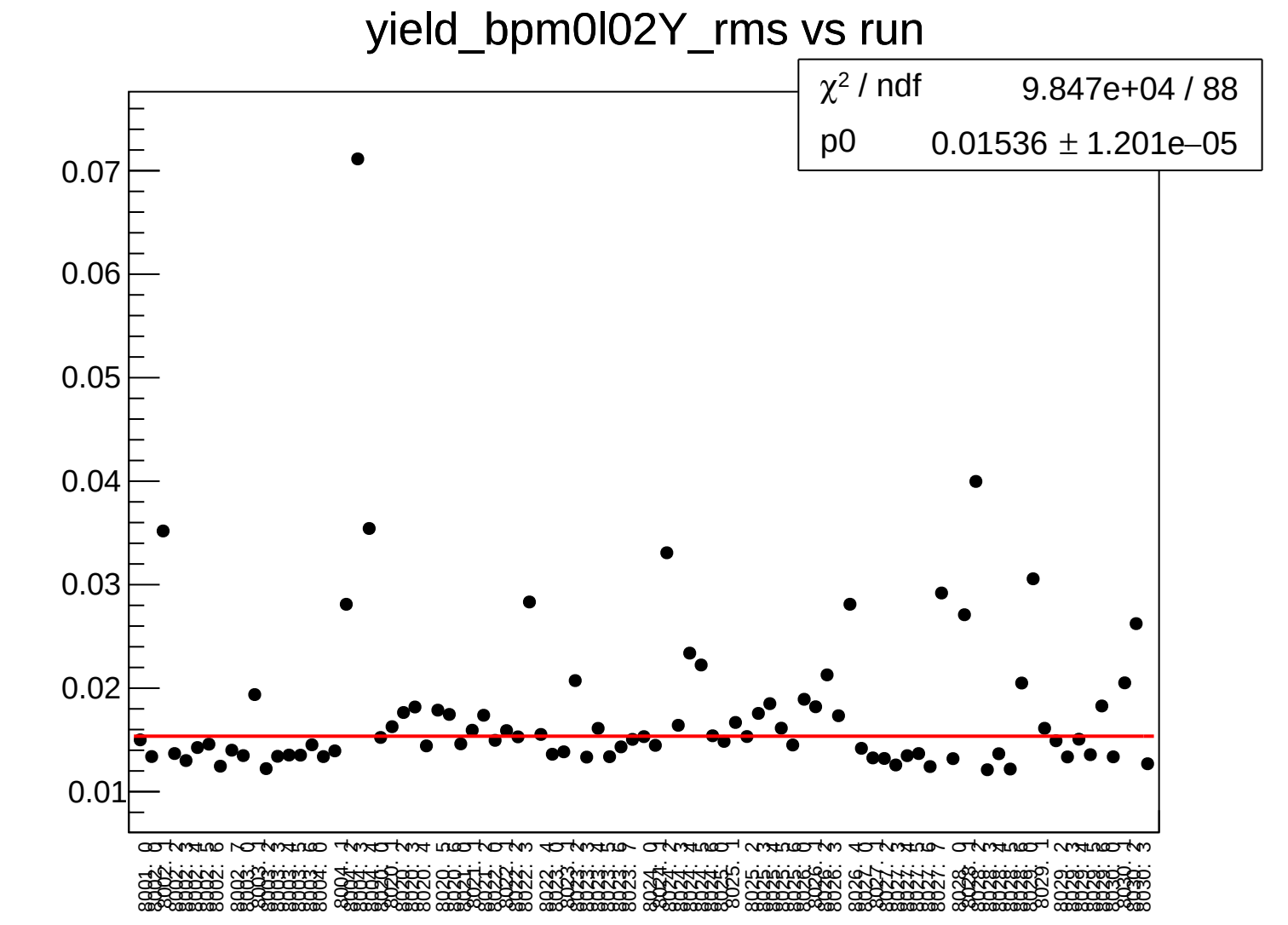

yield_bpm0l02X_mean vs run
χ² / ndf 9.058e+07 / 88
p0 −0.9482 ± 2.29e−05
pull
Entries 89
Mean −778.2
Std Dev 0

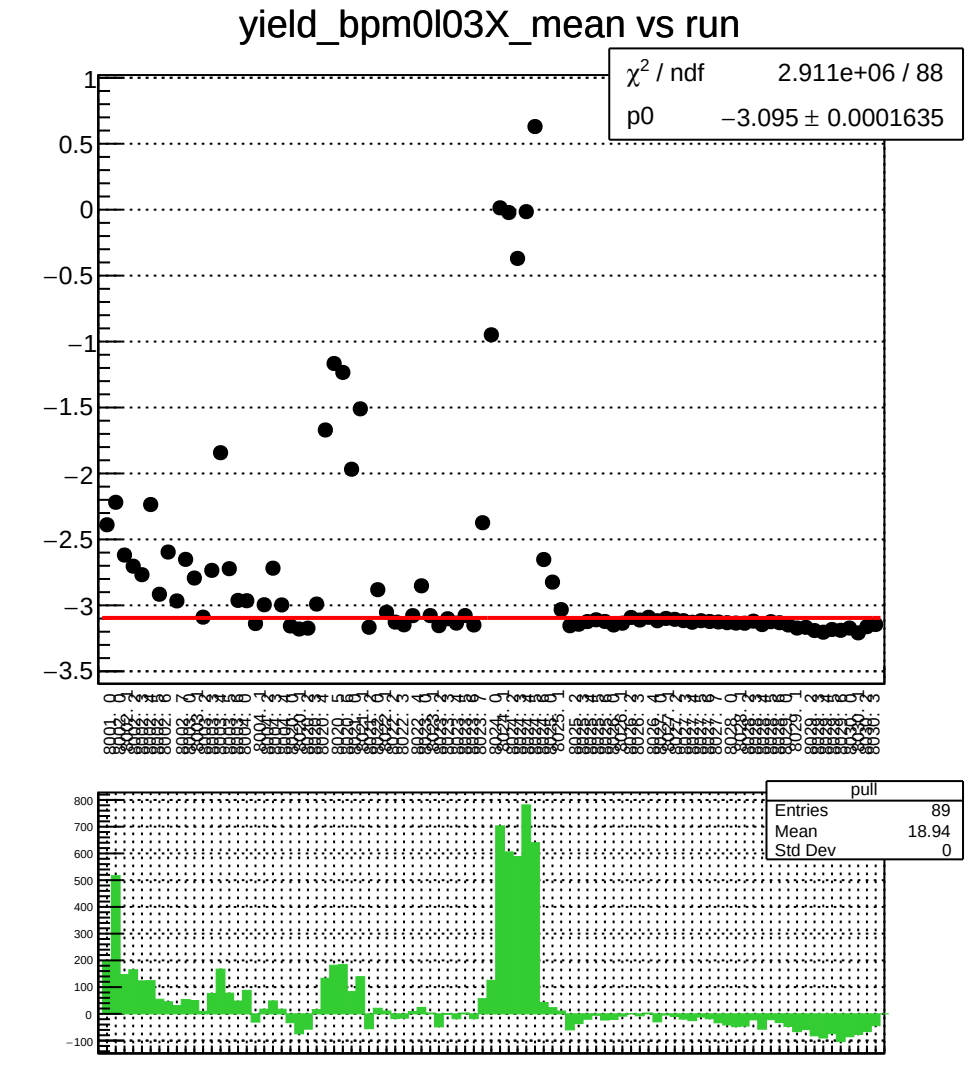

pull1D
Entries 89
Mean 0
Std Dev 0

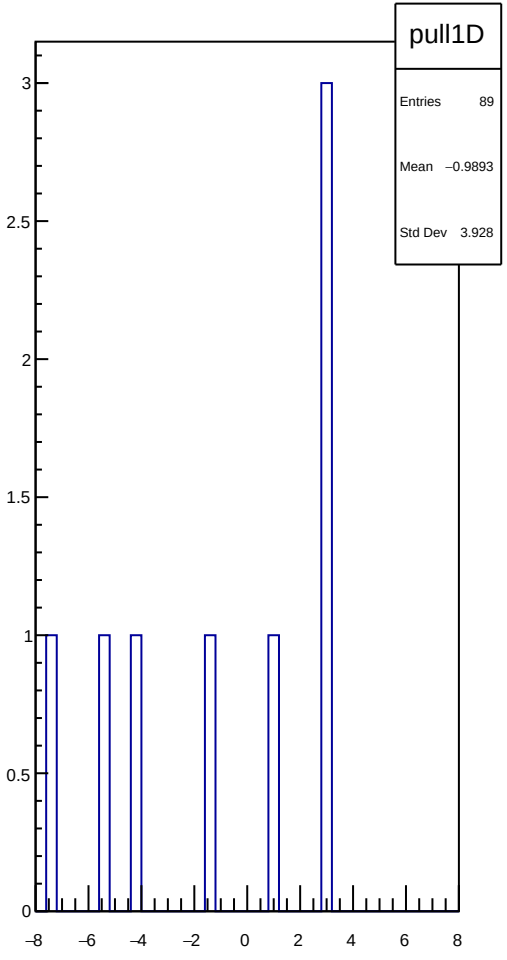

yield_bpm0l02X_rms vs run
χ² / ndf 4.516e+04 / 88
p0 0.02104 ± 1.619e−05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015

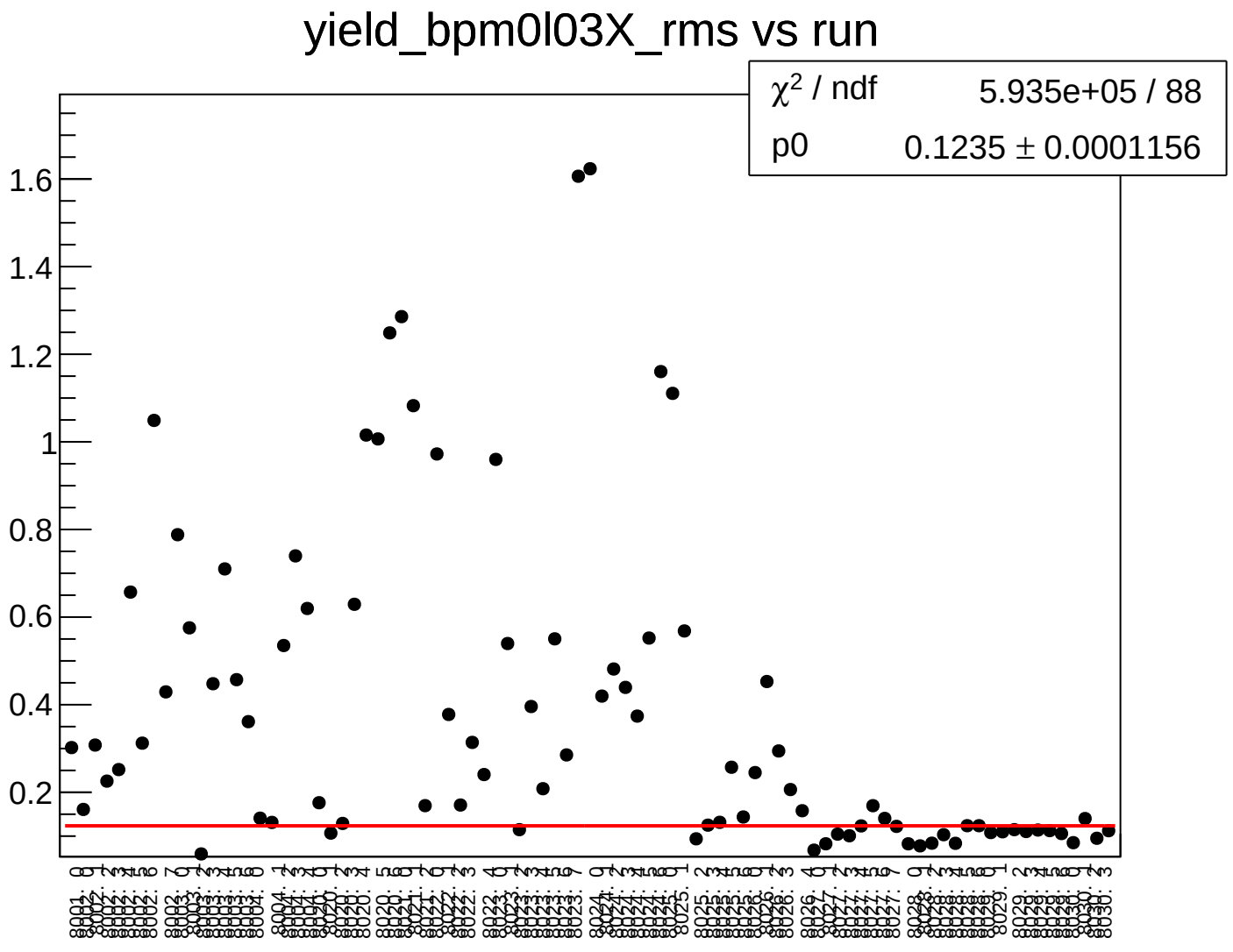

yield_bpm0l02Y_mean vs run
χ² / ndf 8.061e+06 / 88
p0 −0.9775 ± 1.698e−05
−0.9
−0.95
−1
−1.05
−1.1
pull
Entries 89
Mean −147
Std Dev 0
600
400
200
0
−200
−400
−600
−800

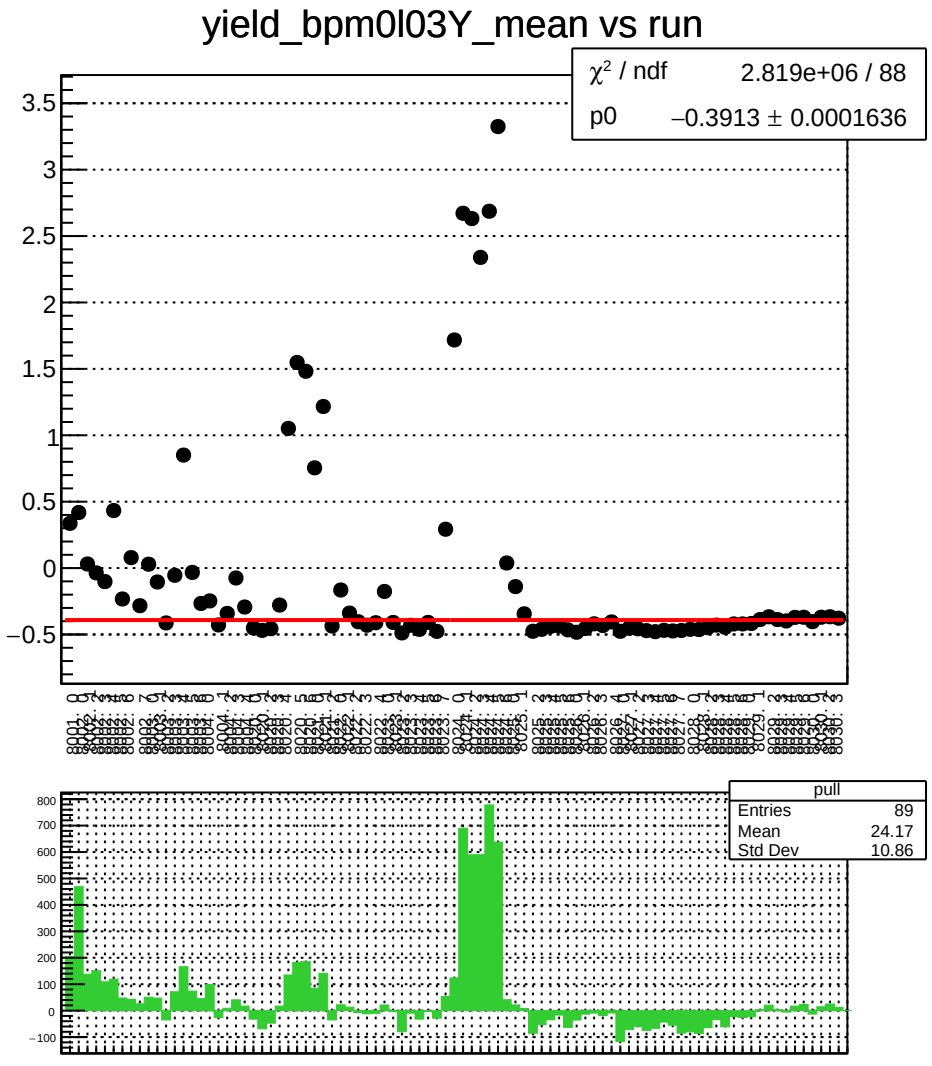

pull1D
Entries 89
Mean −5.257
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

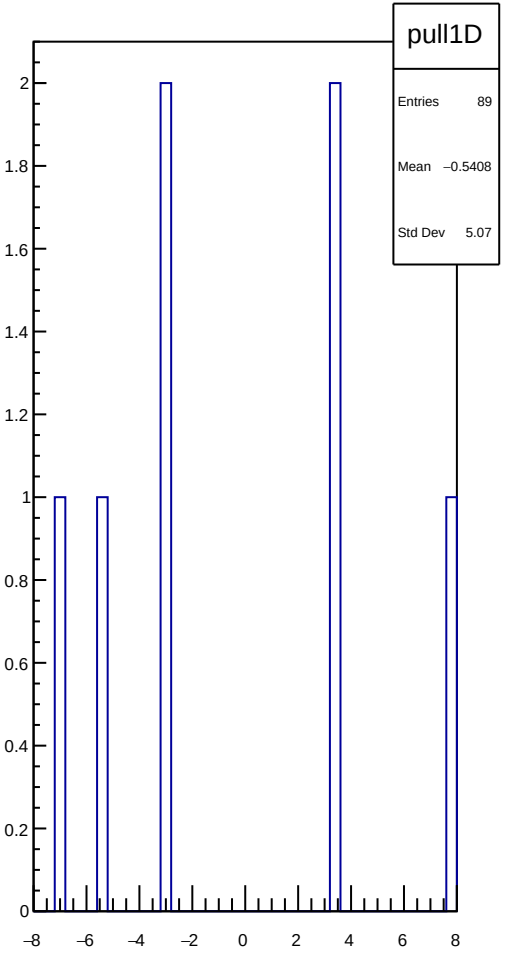

yield_bpm0l02Y_rms vs run
χ² / ndf 9.847e+04 / 88
p0 0.01536 ± 1.201e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

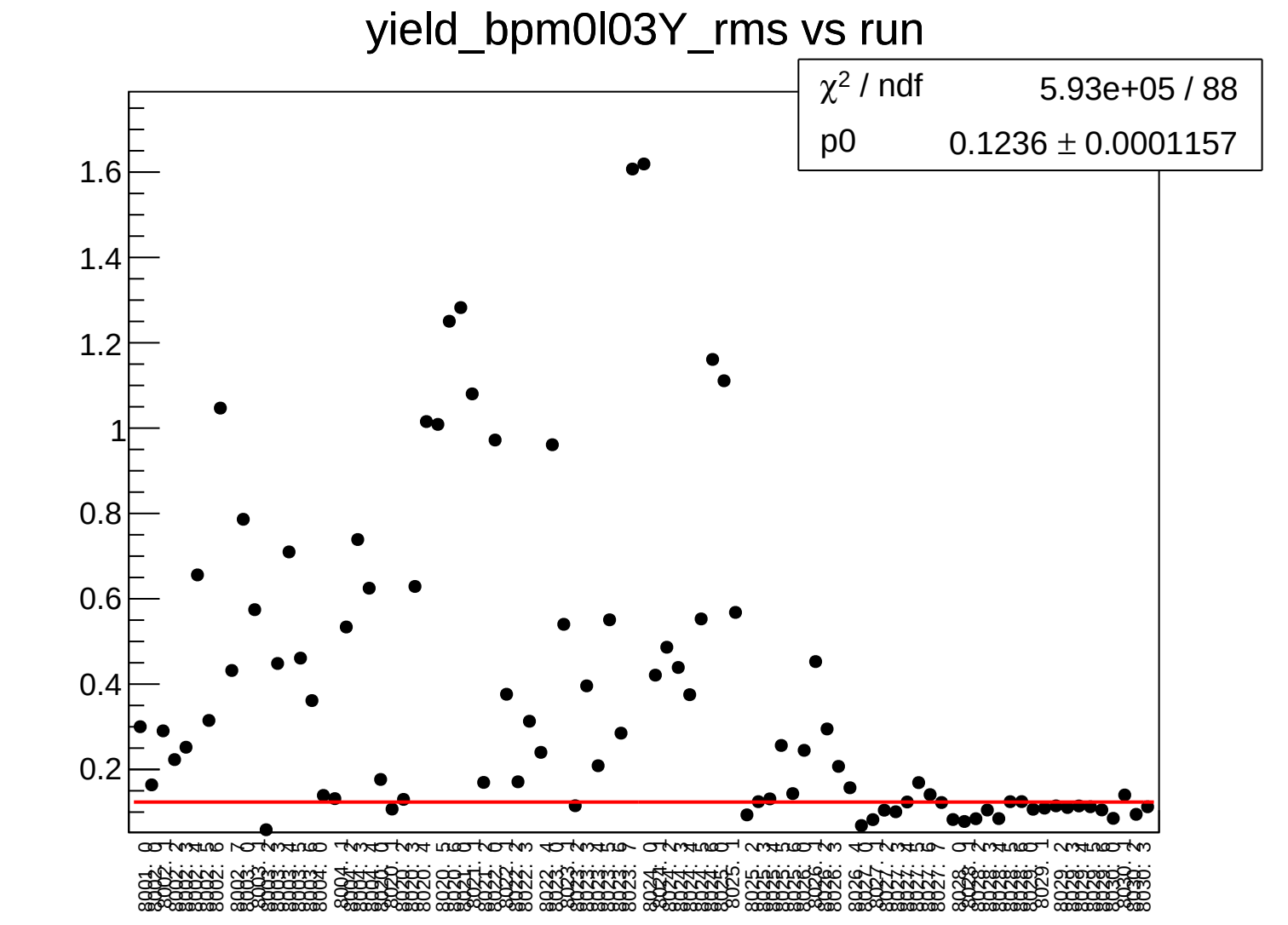

yield_bpm0l03X_mean vs run
χ² / ndf 2.911e+06 / 88
p0 −3.095 ± 0.0001635
pull
Entries 89
Mean 18.94
Std Dev 0

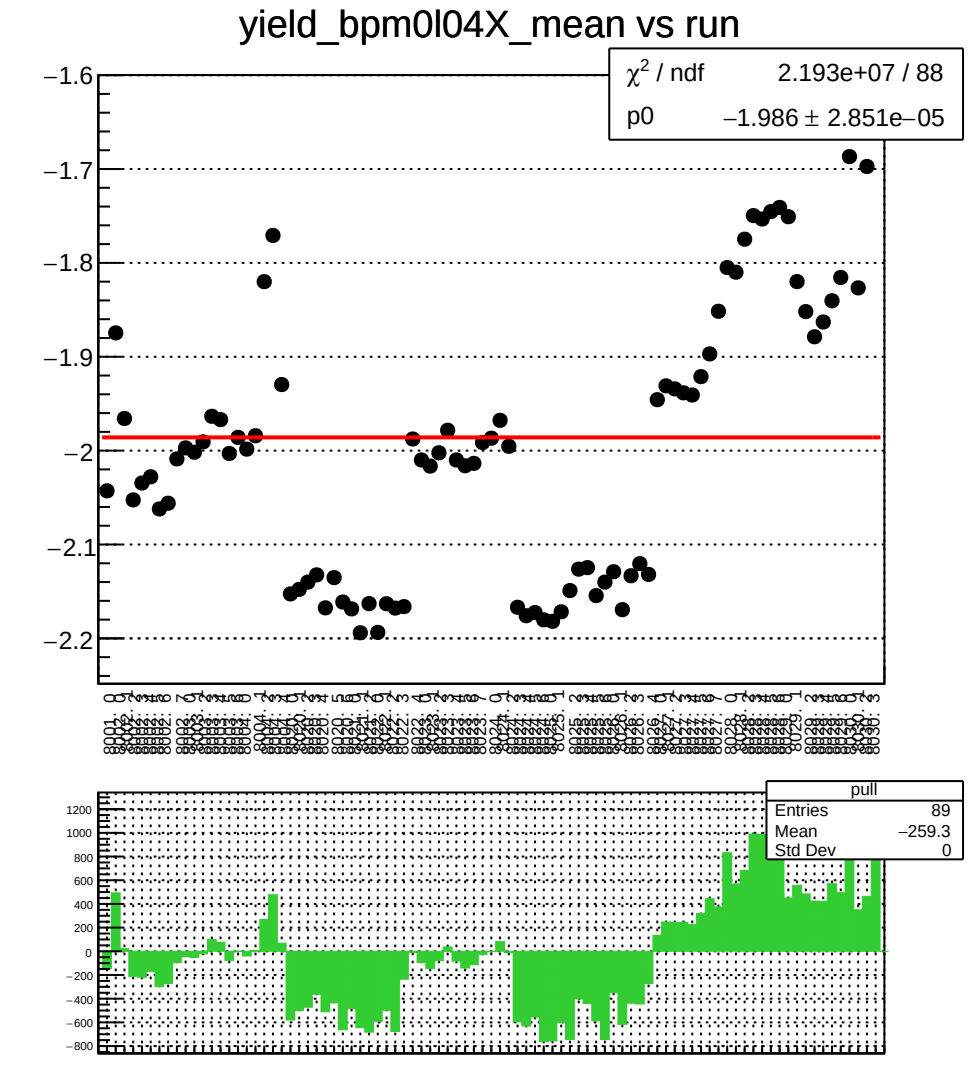

pull1D
Entries 89
Mean −0.9893
Std Dev 3.928

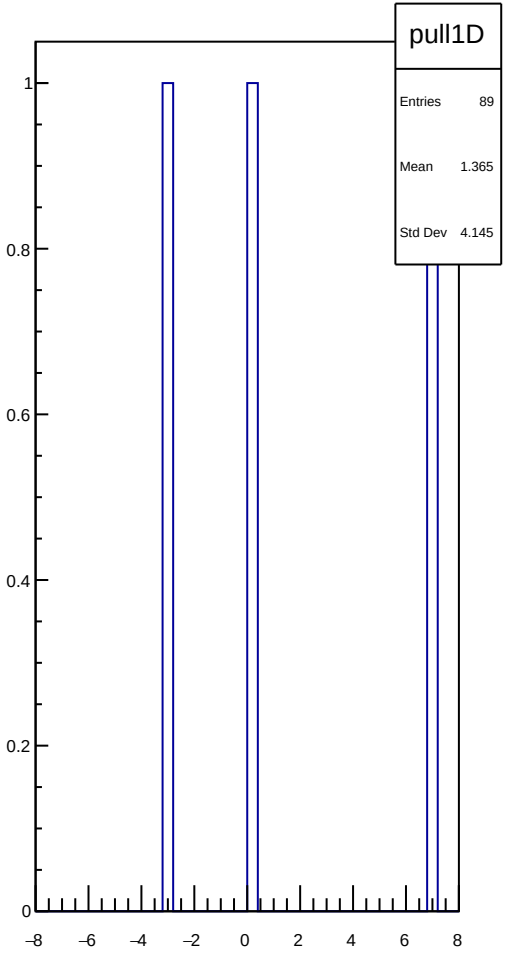

yield_bpm0l03X_rms vs run
χ² / ndf 5.935e+05 / 88
p0 0.1235 ± 0.0001156
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

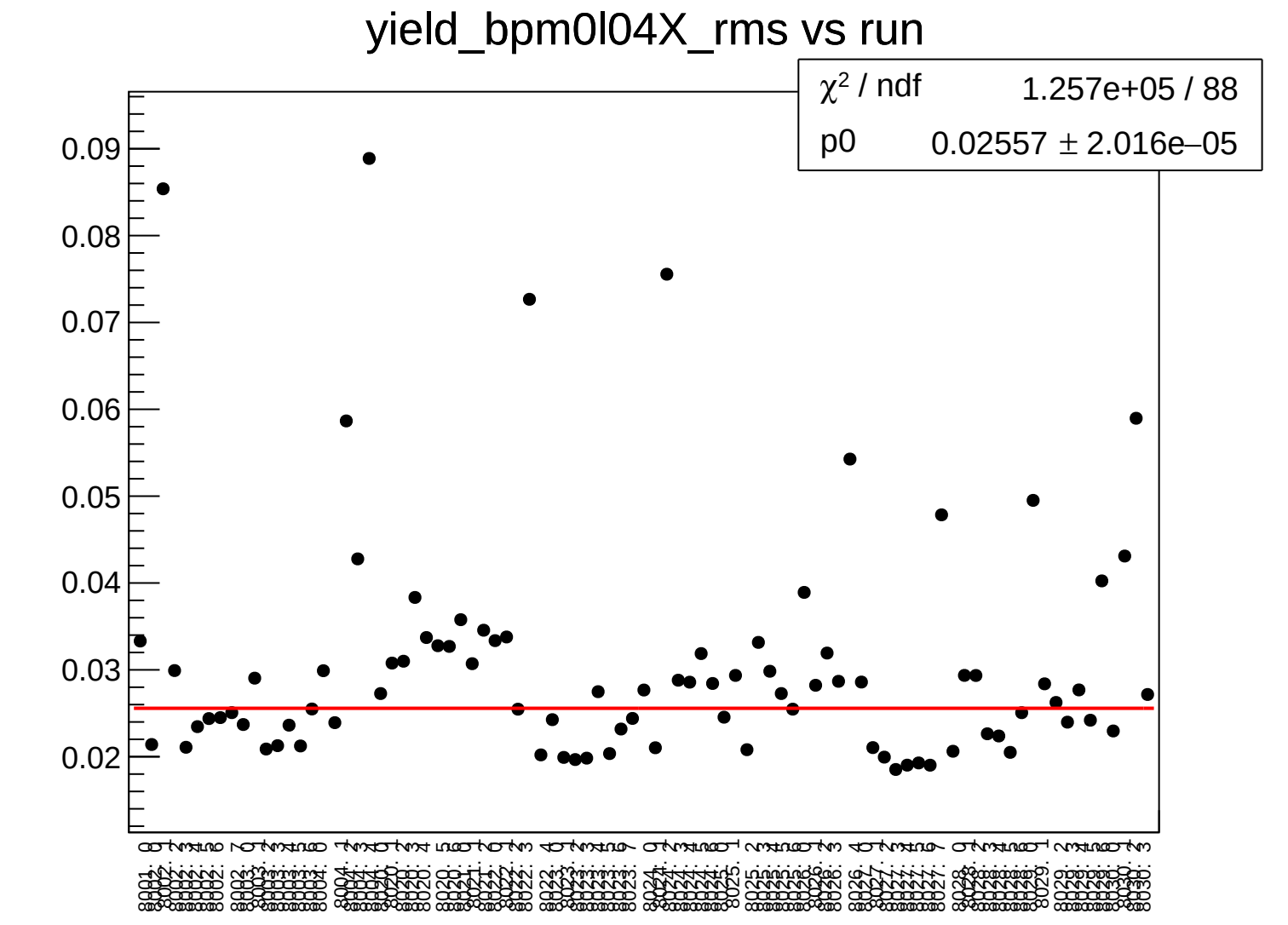

yield_bpm0l03Y_mean vs run
χ² / ndf 2.819e+06 / 88
p0 −0.3913 ± 0.0001636
pull
Entries 89
Mean 24.17
Std Dev 10.86

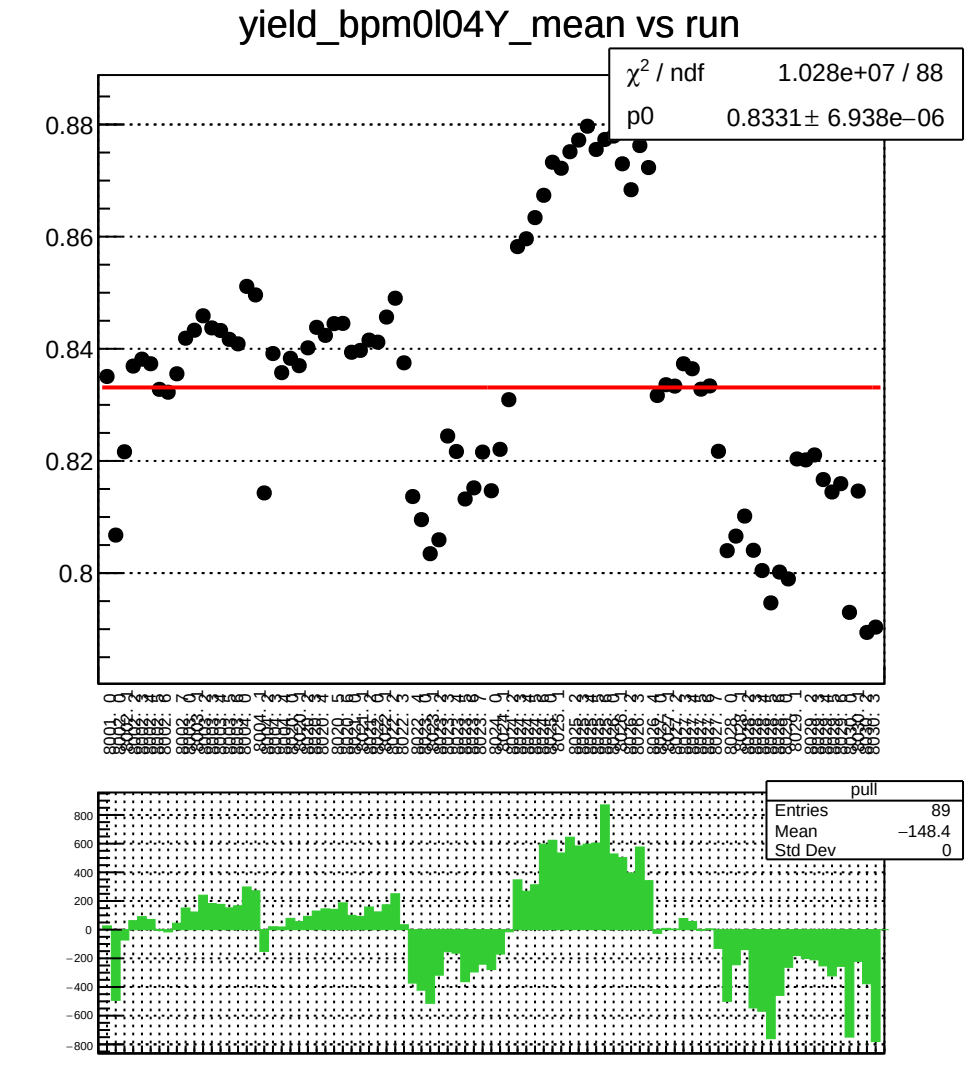

pull1D
Entries 89
Mean −0.5408
Std Dev 5.07

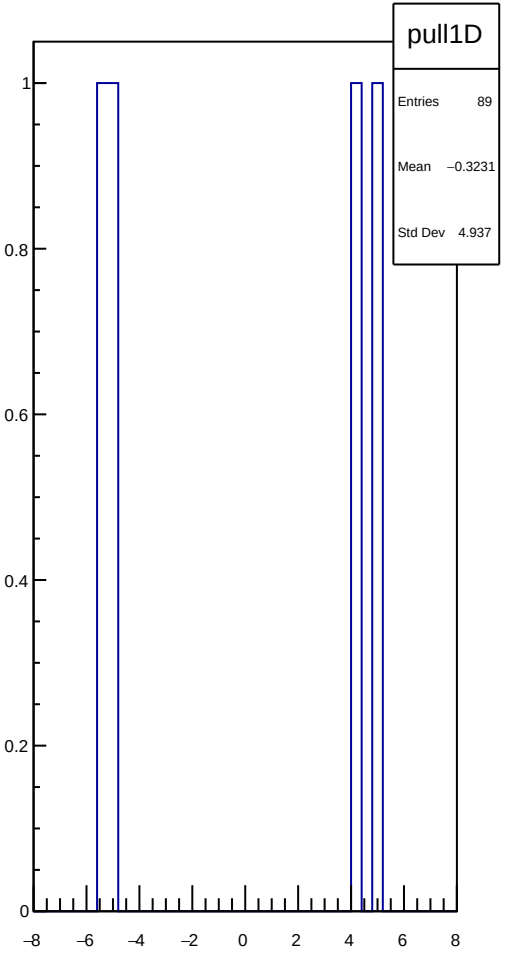

yield_bpm0l03Y_rms vs run
χ² / ndf 5.93e+05 / 88
p0 0.1236 ± 0.0001157
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

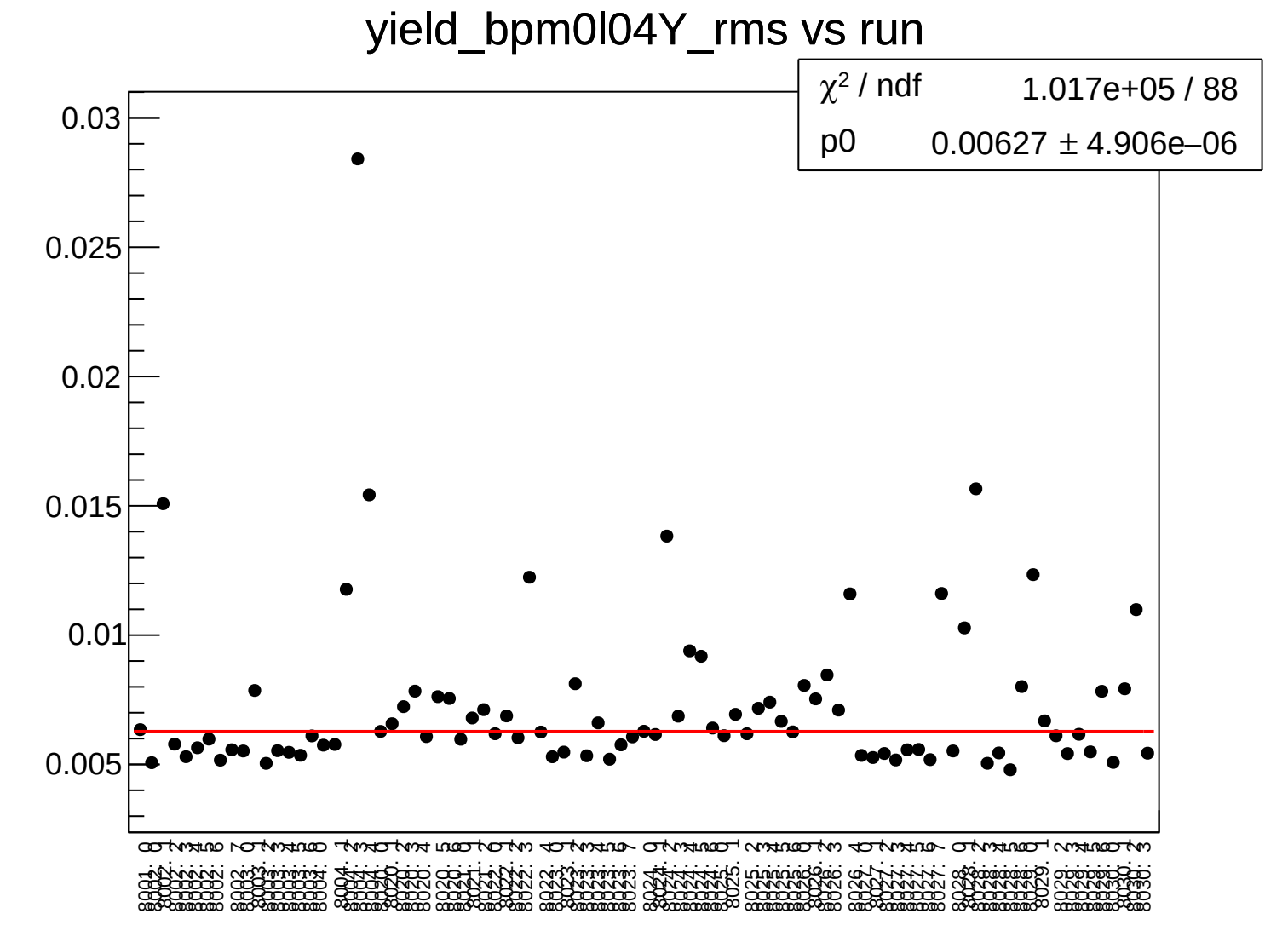

yield_bpm0l04X_mean vs run
χ² / ndf 2.193e+07 / 88
p0 −1.986 ± 2.851e−05
pull
Entries 89
Mean −259.3
Std Dev 0

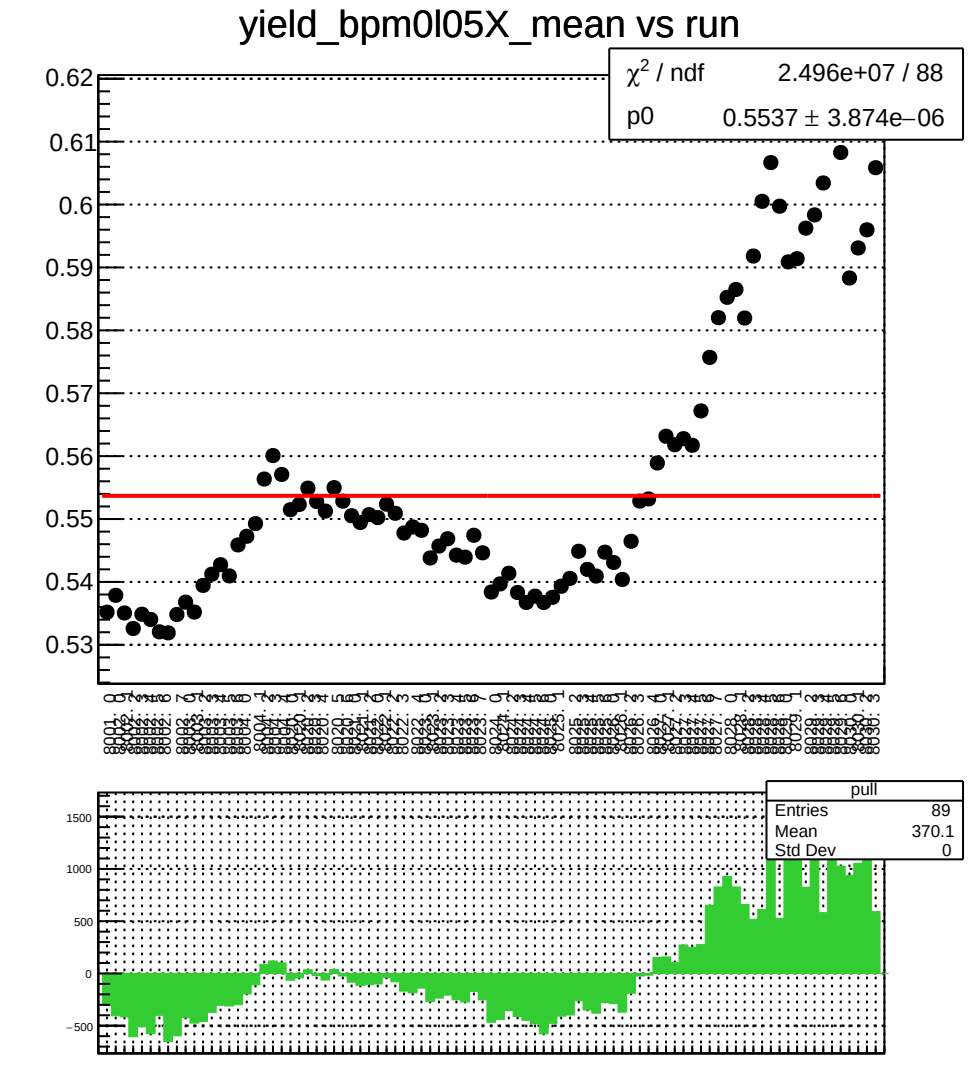

pull1D
Entries 89
Mean 1.365
Std Dev 4.145

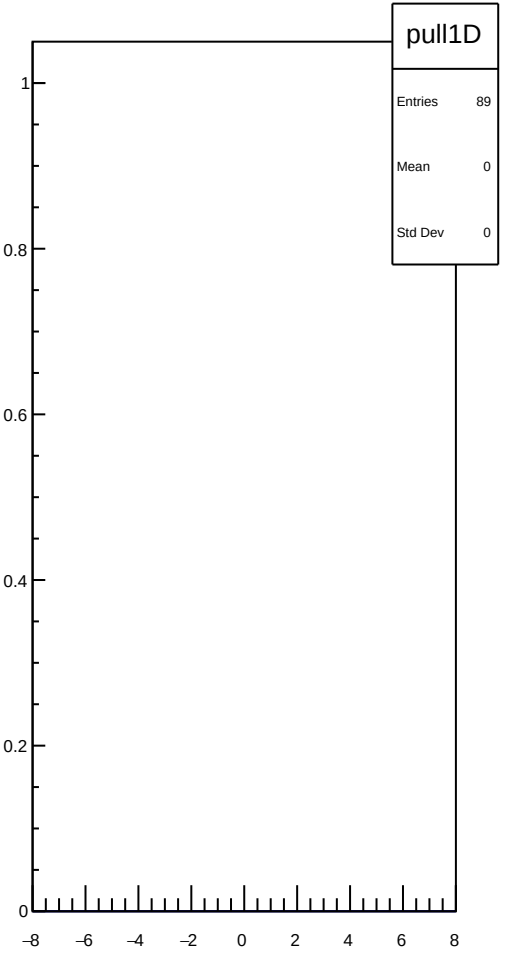

yield_bpm0l04X_rms vs run
χ² / ndf 1.257e+05 / 88
p0 0.02557 ± 2.016e–05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02

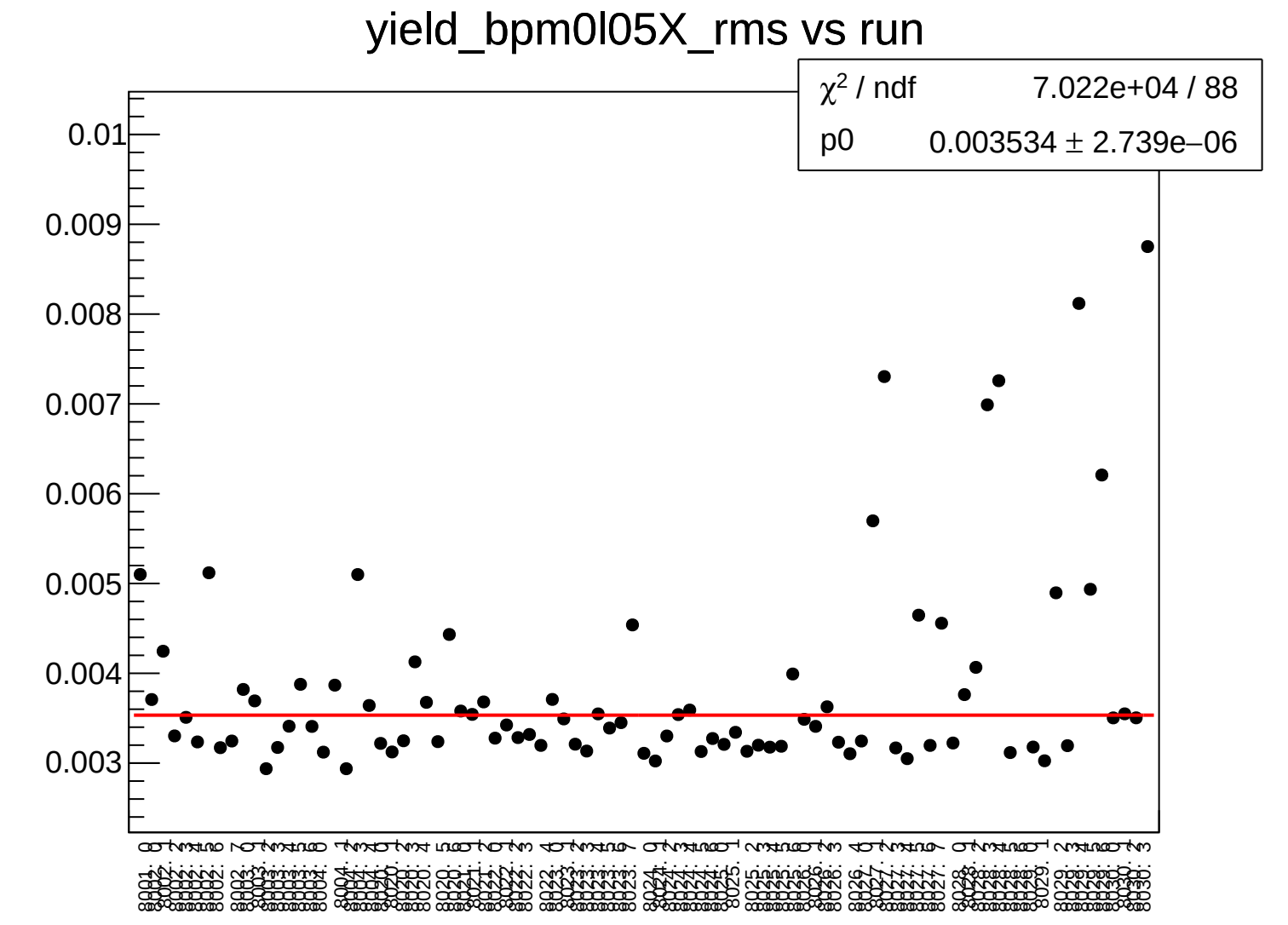

yield_bpm0l04Y_mean vs run
χ² / ndf 1.028e+07 / 88
p0 0.8331 ± 6.938e−06
0.88
0.86
0.84
0.82
0.8
pull
Entries 89
Mean −148.4
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800

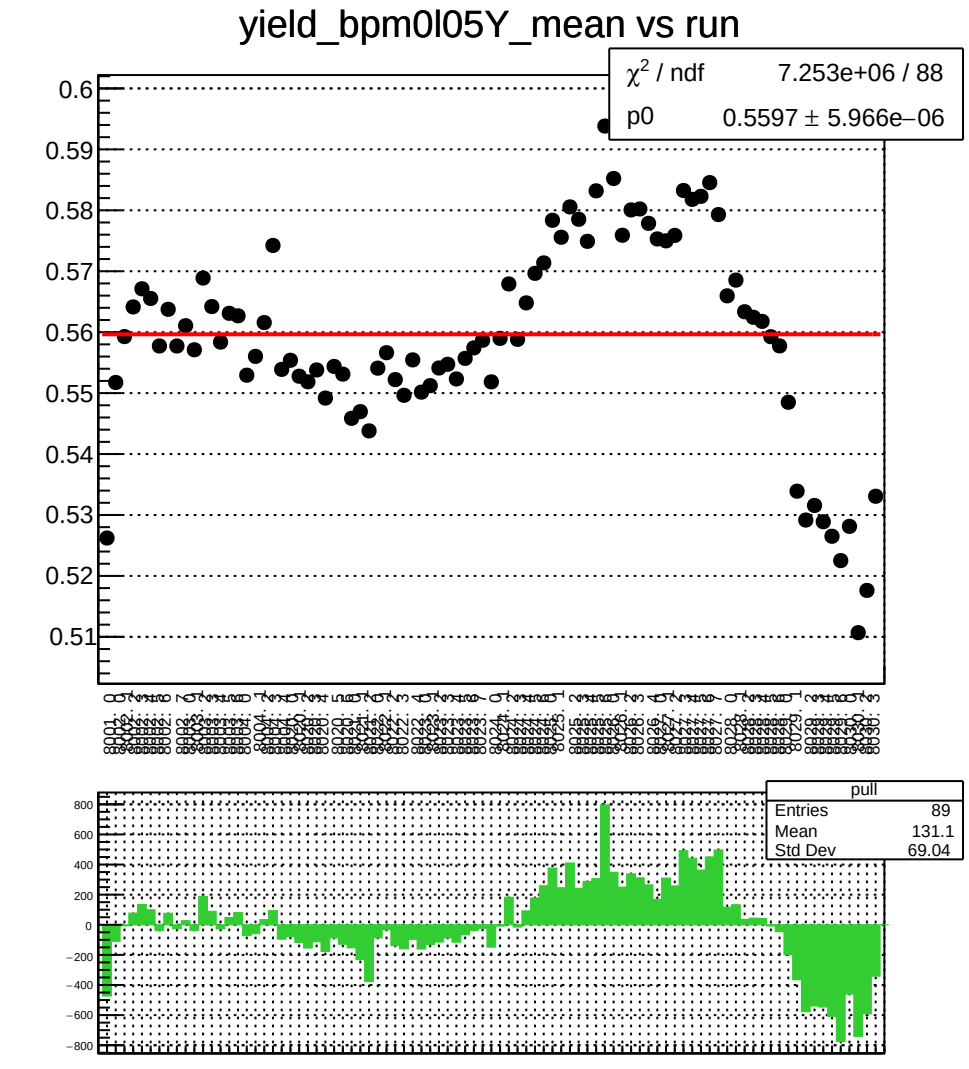

pull1D
Entries 89
Mean −0.3231
Std Dev 4.937
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

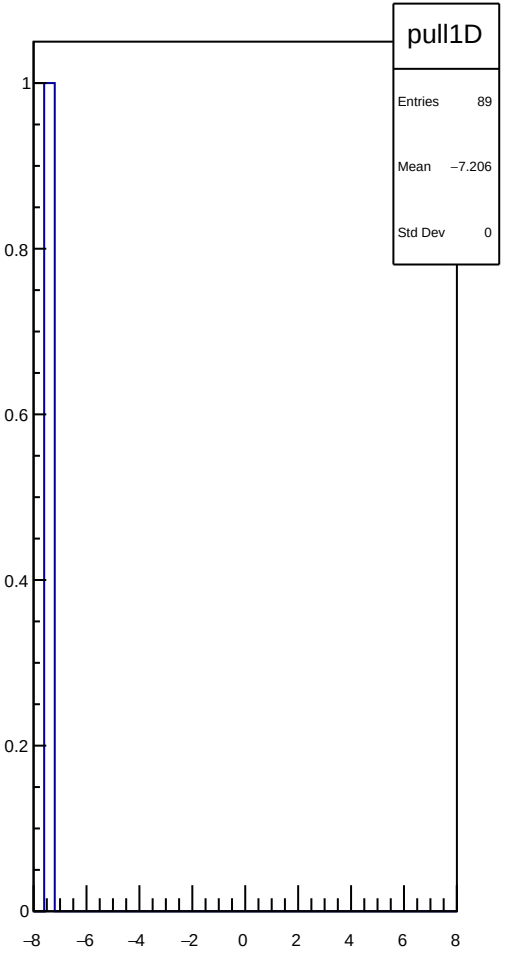

yield_bpm0l04Y_rms vs run
χ² / ndf 1.017e+05 / 88
p0 0.00627 ± 4.906e–06
0.03
0.025
0.02
0.015
0.01
0.005

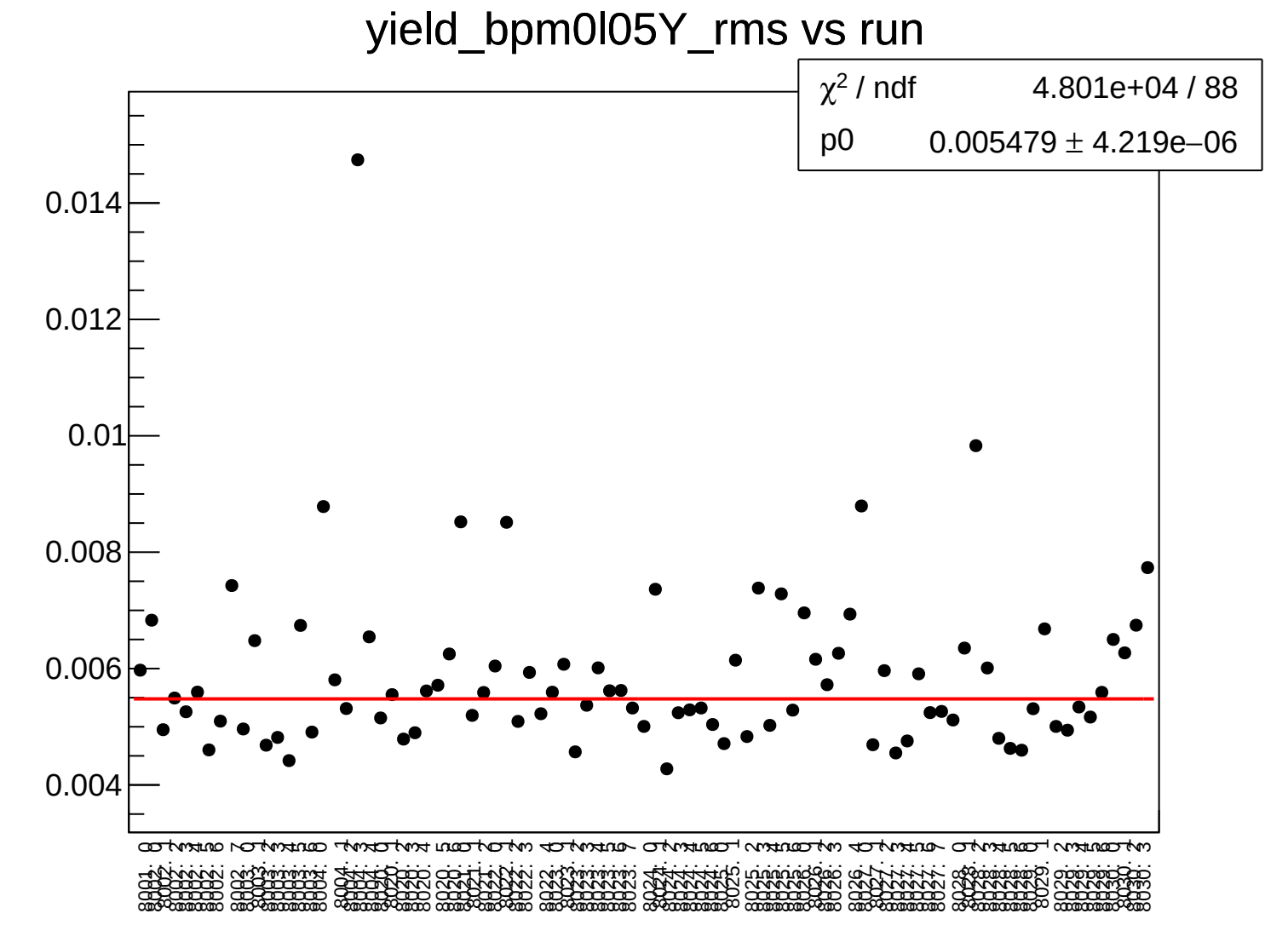

yield_bpm0l05X_mean vs run
χ² / ndf 2.496e+07 / 88
p0 0.5537 ± 3.874e−06
pull
Entries 89
Mean 370.1
Std Dev 0

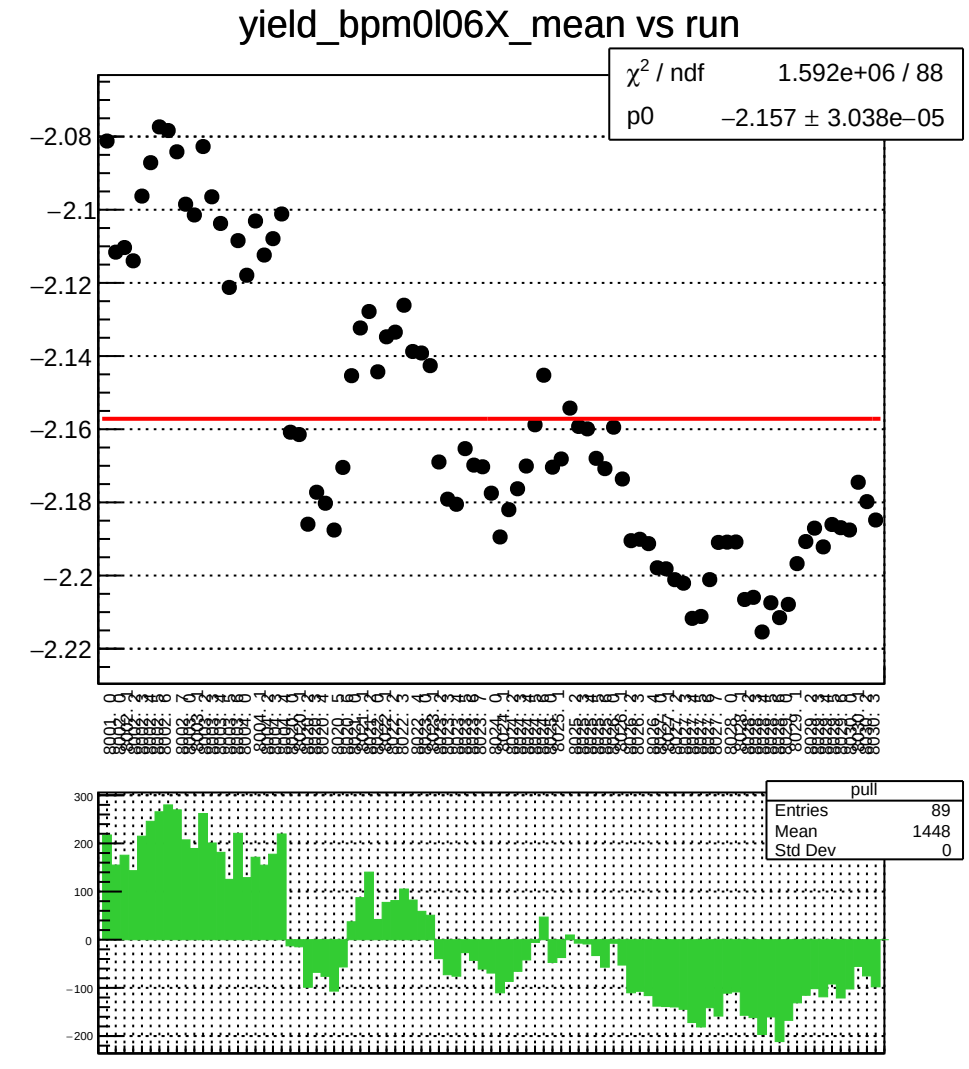

pull1D
Entries 89
Mean 0
Std Dev 0

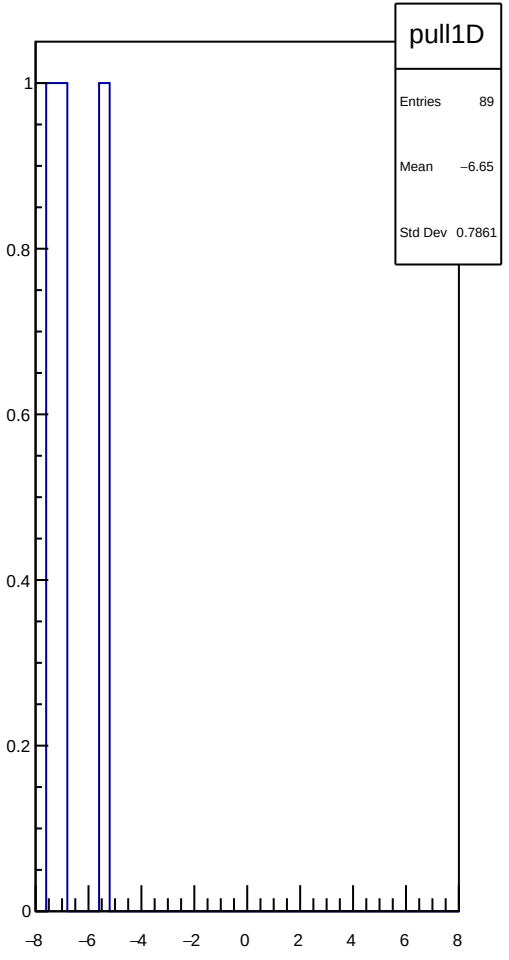

yield_bpm0l05X_rms vs run
χ^2 / ndf 7.022e+04 / 88
p0 0.003534 ± 2.739e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

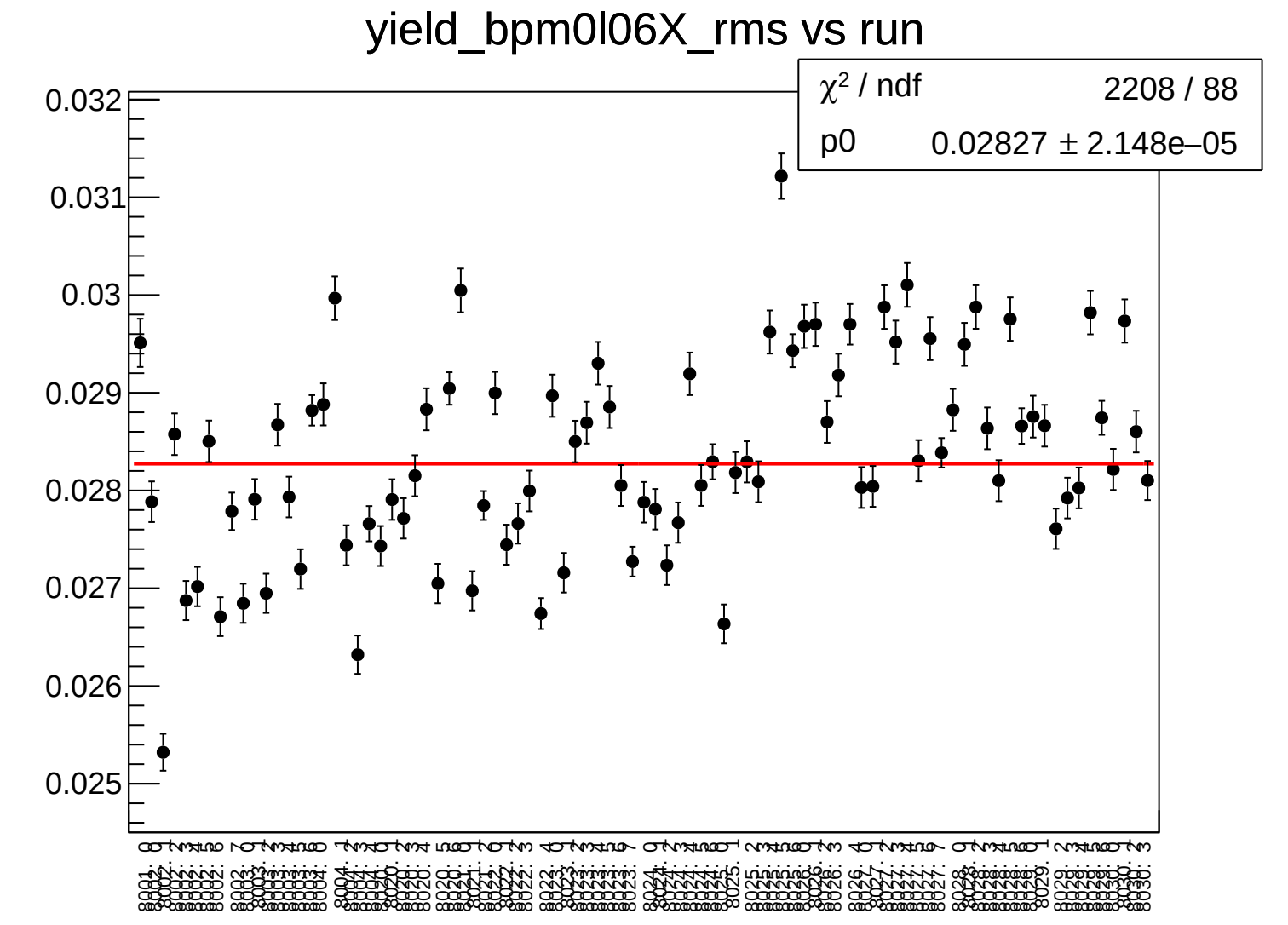

yield_bpm0l05Y_mean vs run
χ² / ndf 7.253e+06 / 88
p0 0.5597 ± 5.966e−06
pull
Entries 89
Mean 131.1
Std Dev 69.04

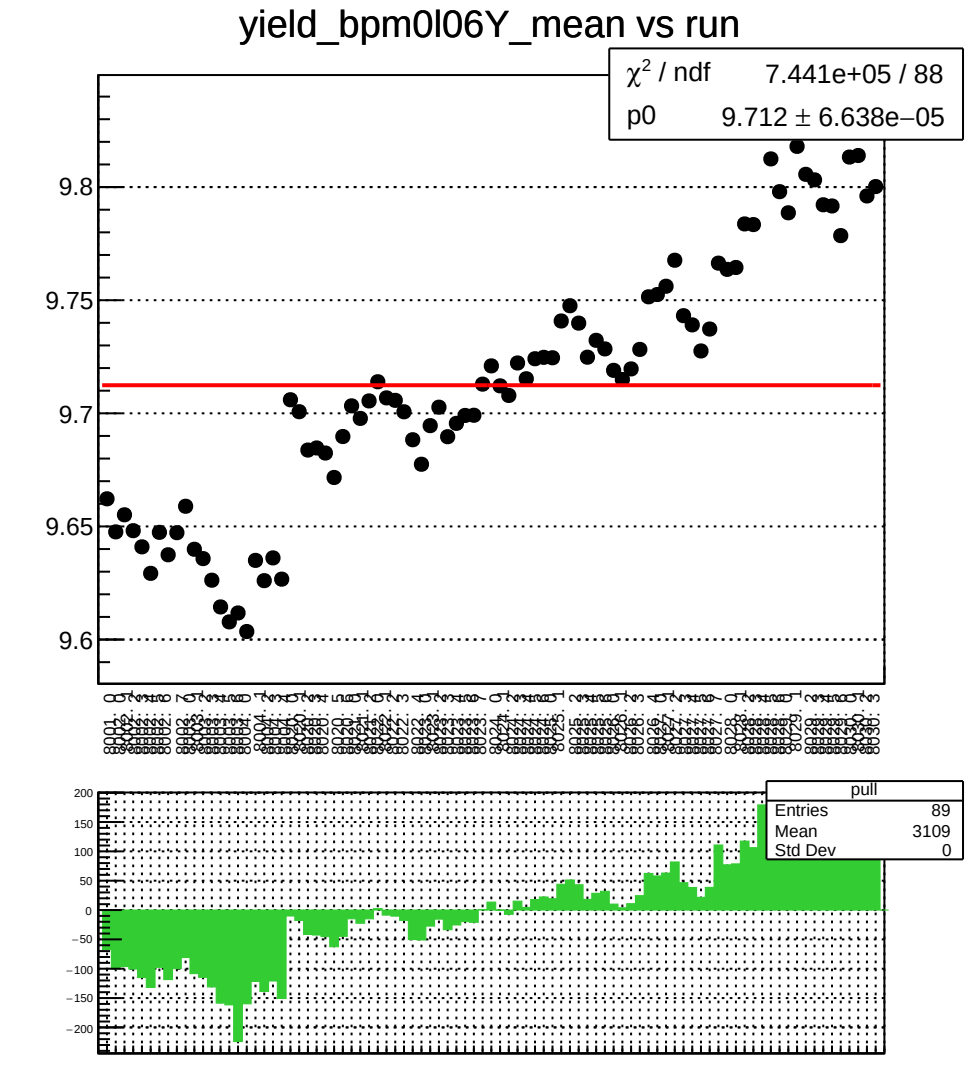

pull1D
Entries 89
Mean −7.206
Std Dev 0

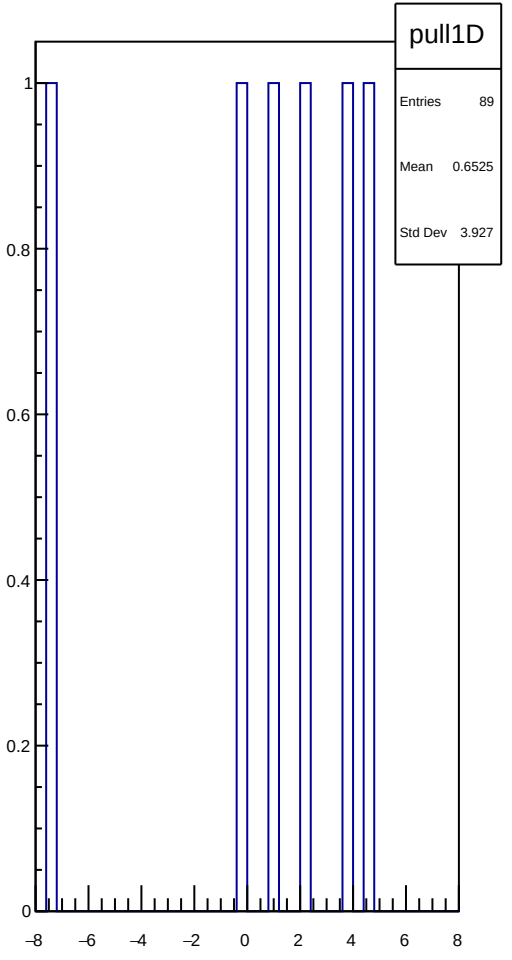

yield_bpm0l05Y_rms vs run
χ^2 / ndf 4.801e+04 / 88
p0 0.005479 ± 4.219e−06
0.014
0.012
0.01
0.008
0.006
0.004

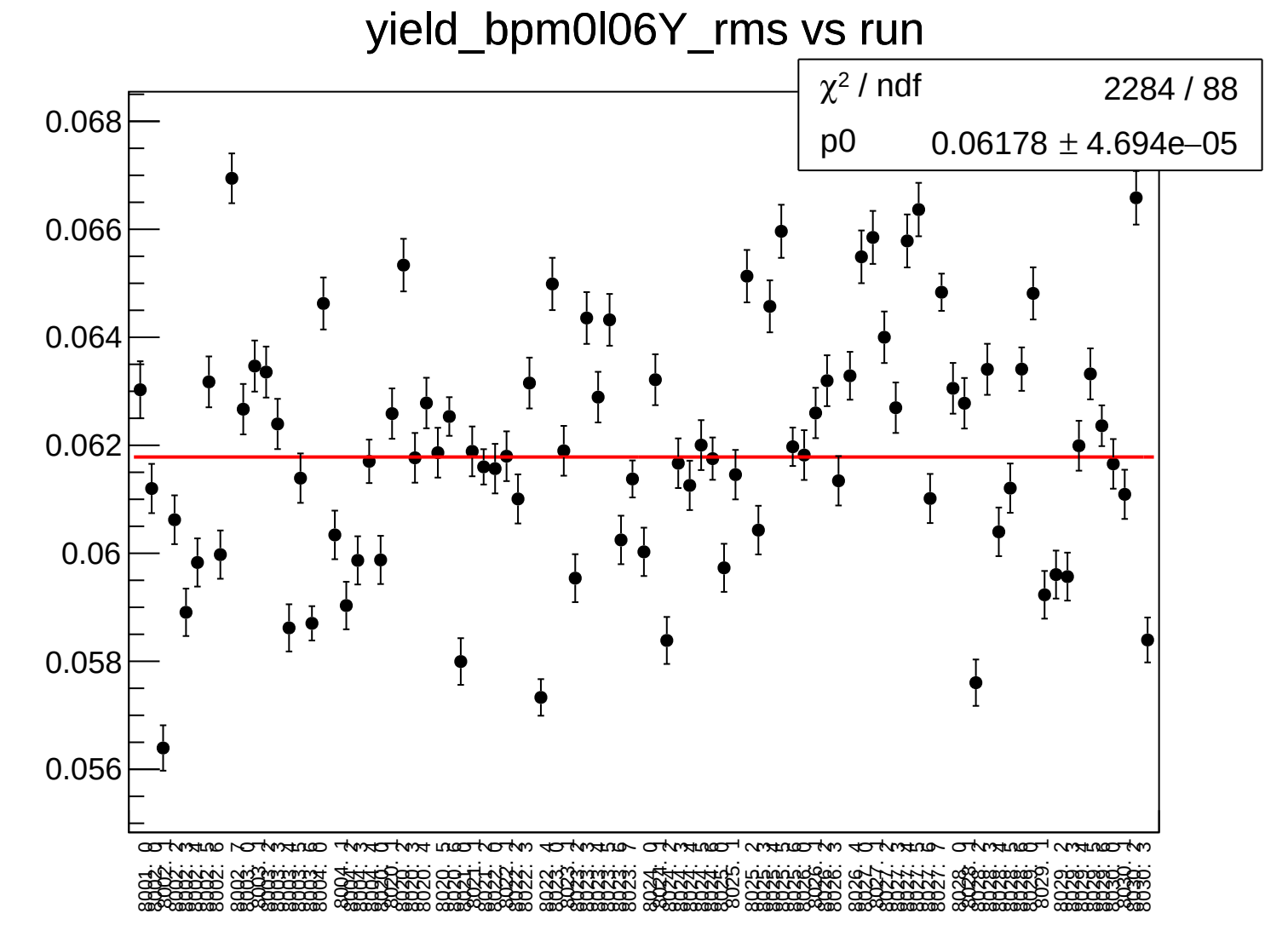

yield_bpm0l06X_mean vs run
χ² / ndf 1.592e+06 / 88
p0 −2.157 ± 3.038e−05
−2.08
−2.1
−2.12
−2.14
−2.16
−2.18
−2.2
−2.22
pull
Entries 89
Mean 1448
Std Dev 0
300
200
100
0
−100
−200

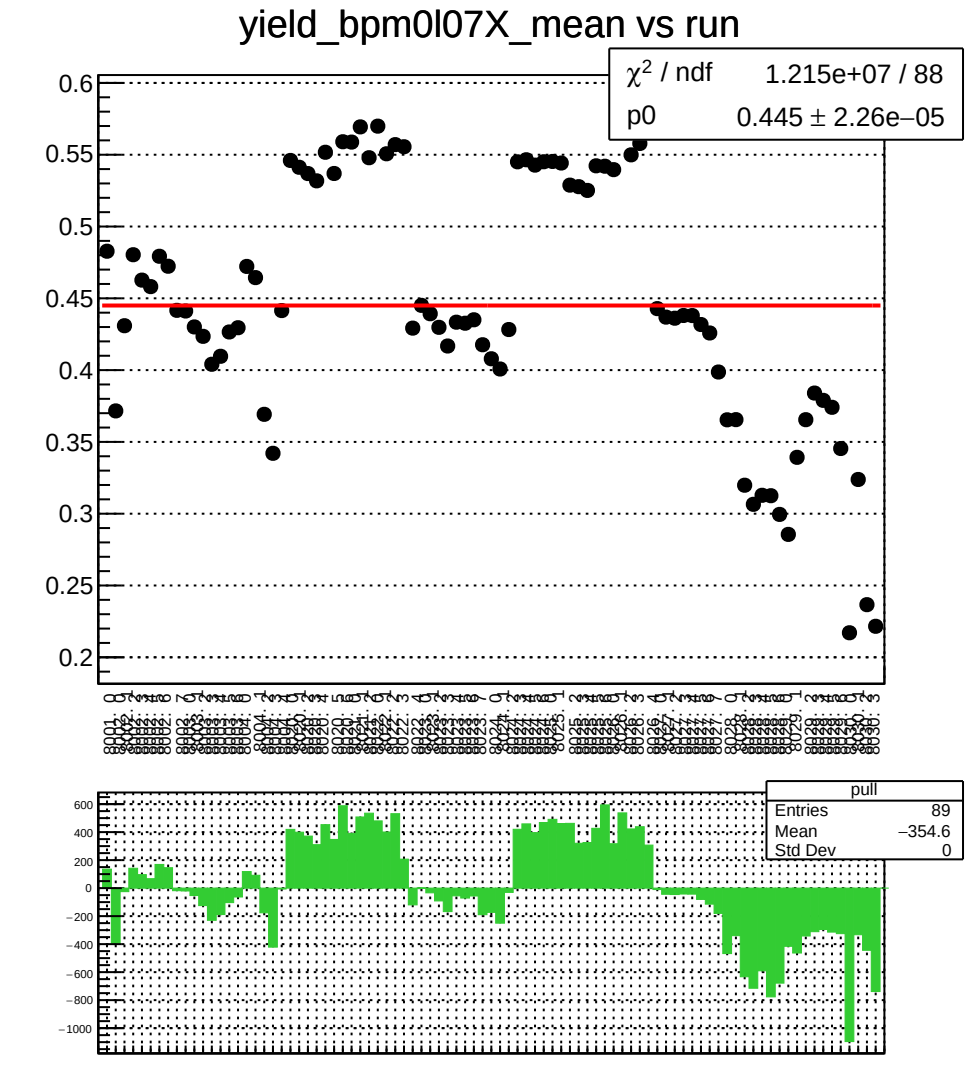

pull1D
Entries 89
Mean −6.65
Std Dev 0.7861
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

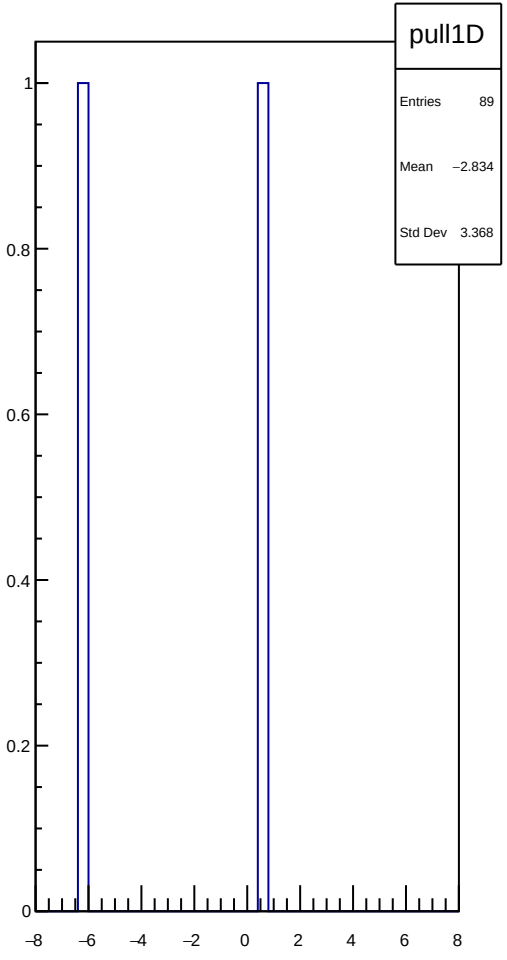

yield_bpm0l06X_rms vs run
χ² / ndf 2208 / 88
p0 0.02827 ± 2.148e–05
0.032
0.031
0.03
0.029
0.028
0.027
0.026
0.025

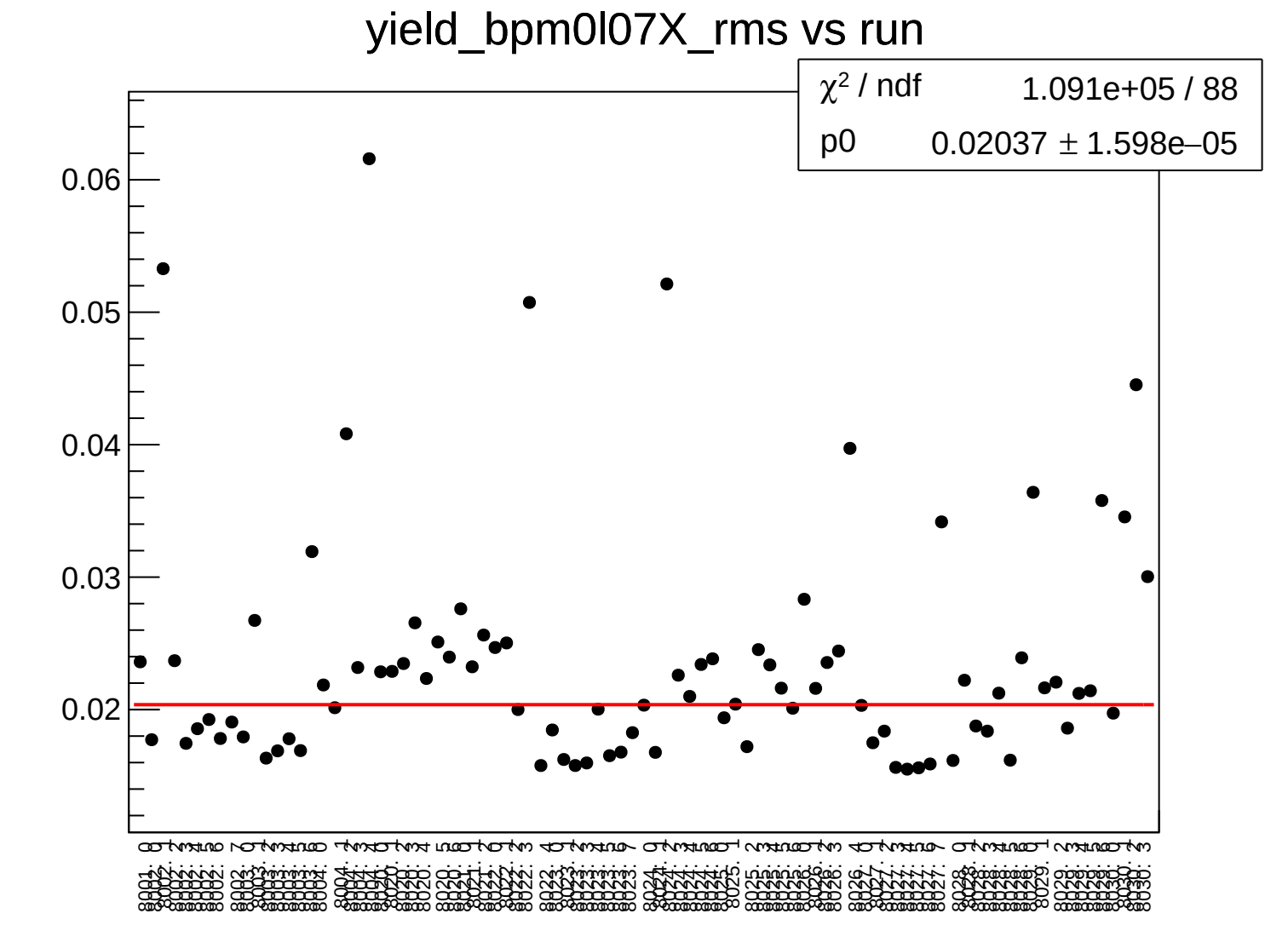

yield_bpm0l06Y_mean vs run
χ² / ndf 7.441e+05 / 88
p0 9.712 ± 6.638e−05
9.8
9.75
9.7
9.65
9.6
pull
Entries 89
Mean 3109
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200

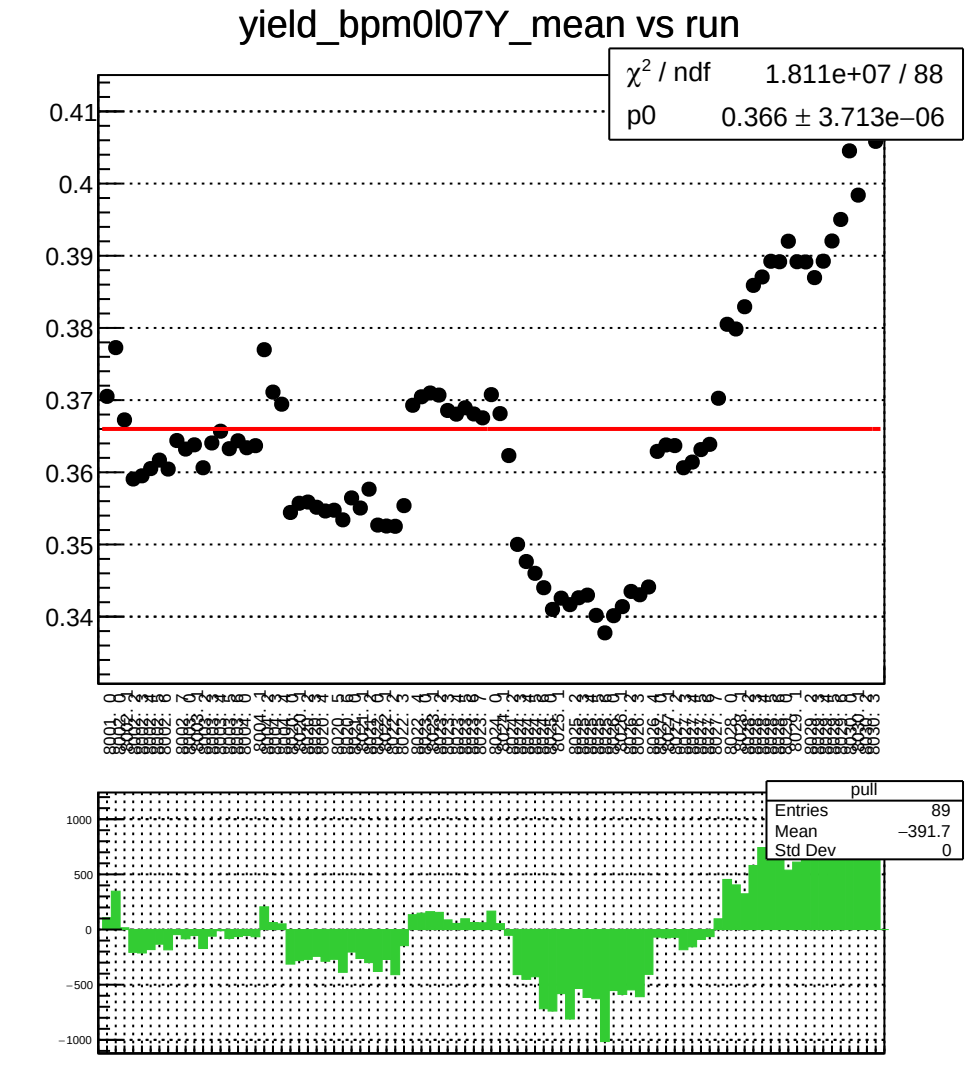

pull1D
Entries 89
Mean 0.6525
Std Dev 3.927
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

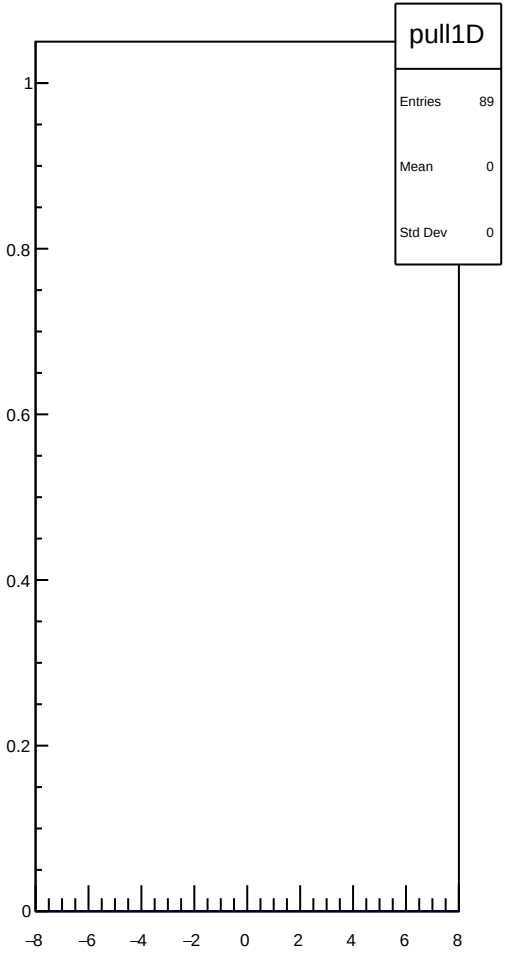

yield_bpm0l06Y_rms vs run
χ² / ndf 2284 / 88
p0 0.06178 ± 4.694e−05
0.068
0.066
0.064
0.062
0.06
0.058
0.056

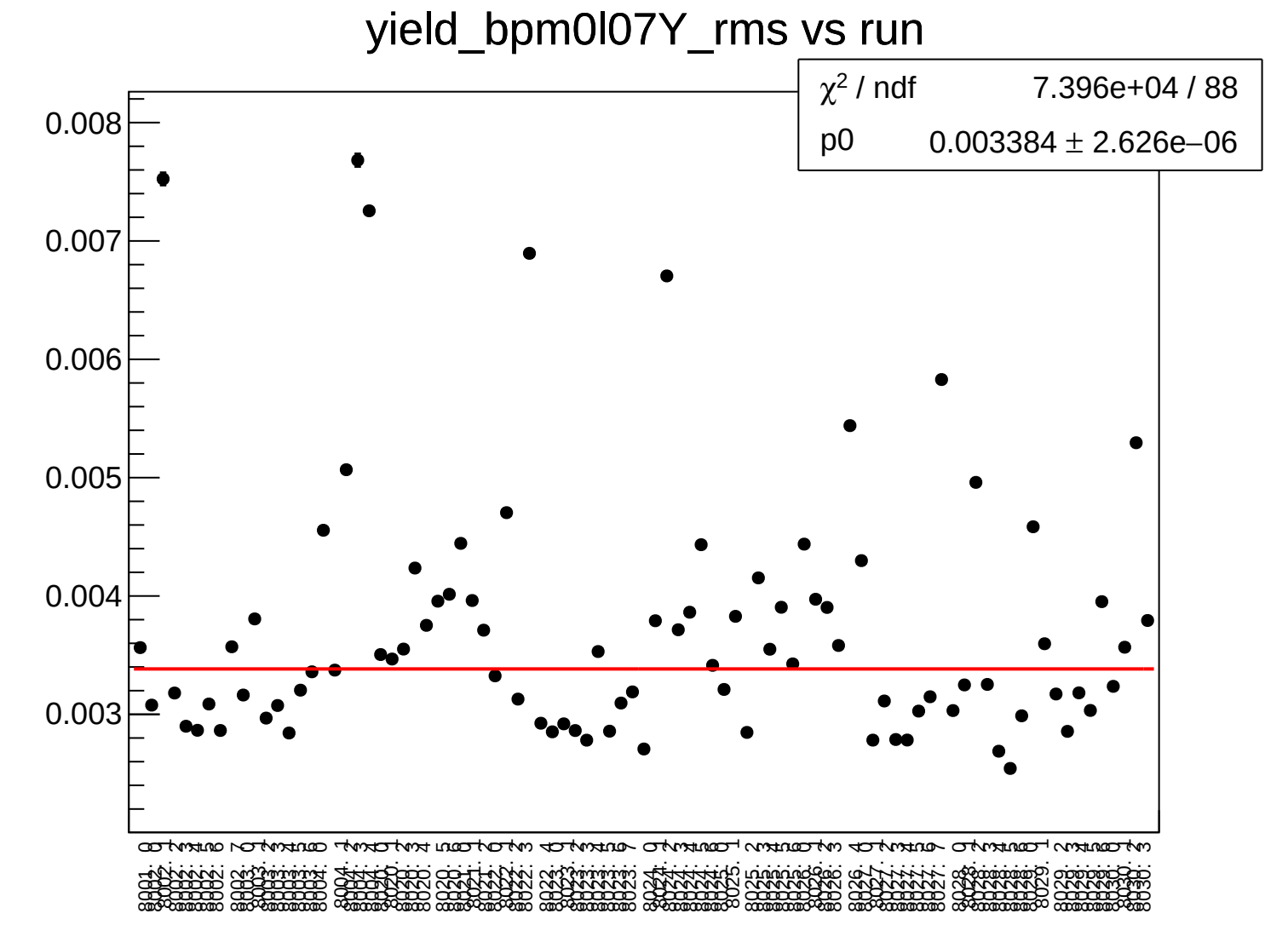

yield_bpm0l07X_mean vs run
χ² / ndf 1.215e+07 / 88
p0 0.445 ± 2.26e−05
pull
Entries 89
Mean −354.6
Std Dev 0

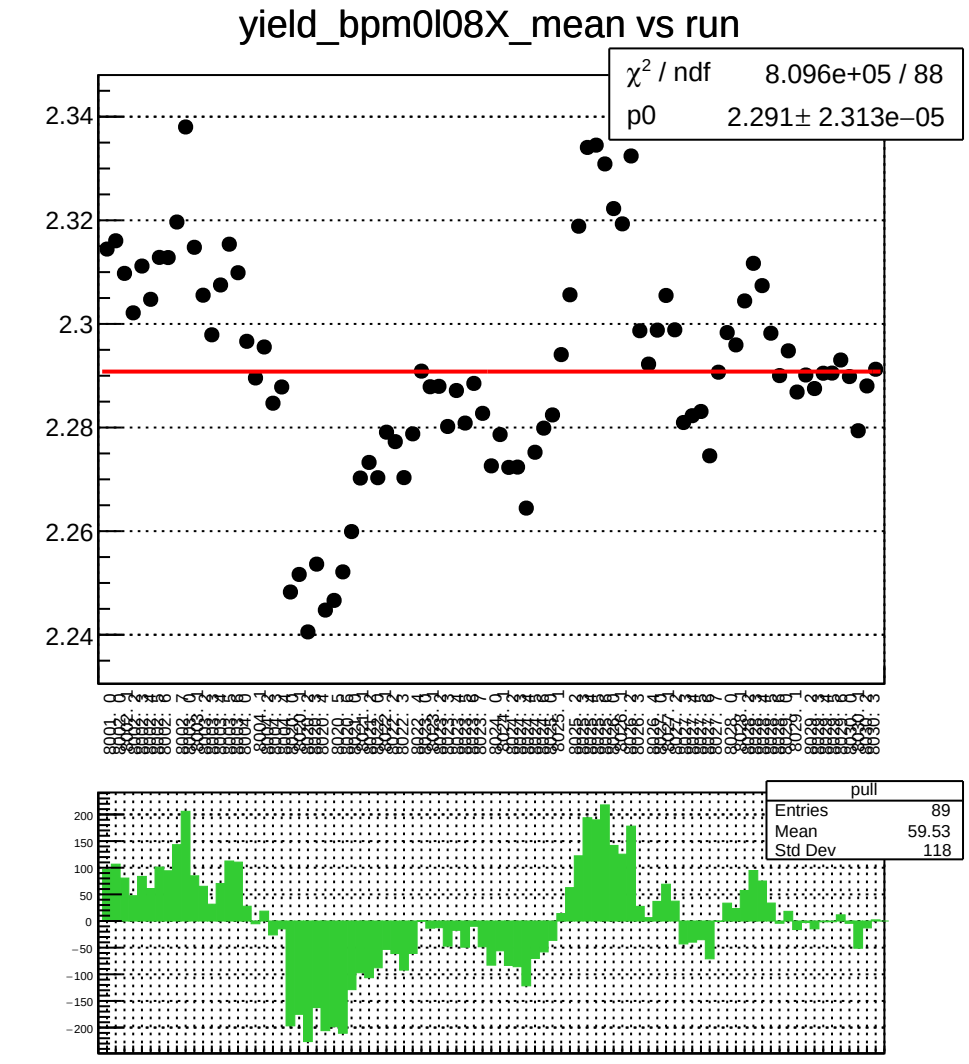

pull1D
Entries 89
Mean −2.834
Std Dev 3.368

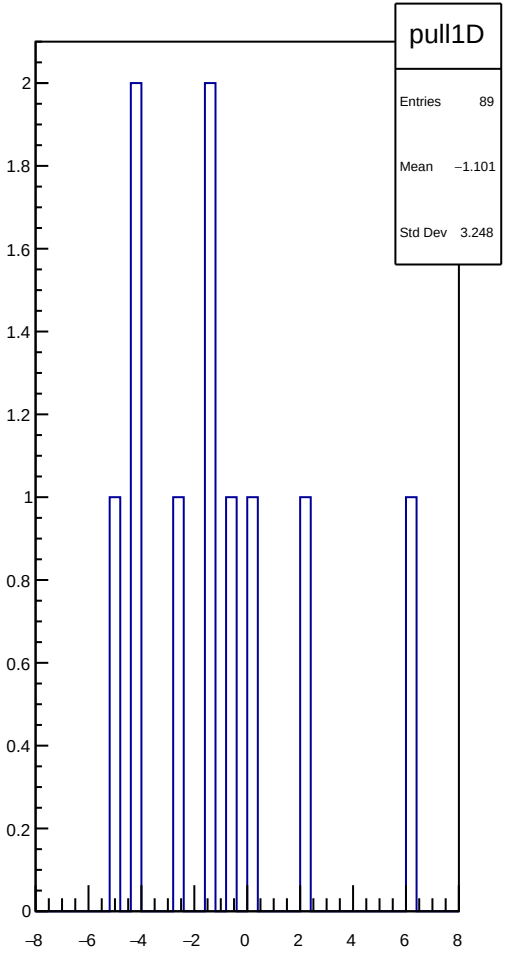

yield_bpm0l07X_rms vs run
χ² / ndf 1.091e+05 / 88
p0 0.02037 ± 1.598e–05
0.06
0.05
0.04
0.03
0.02

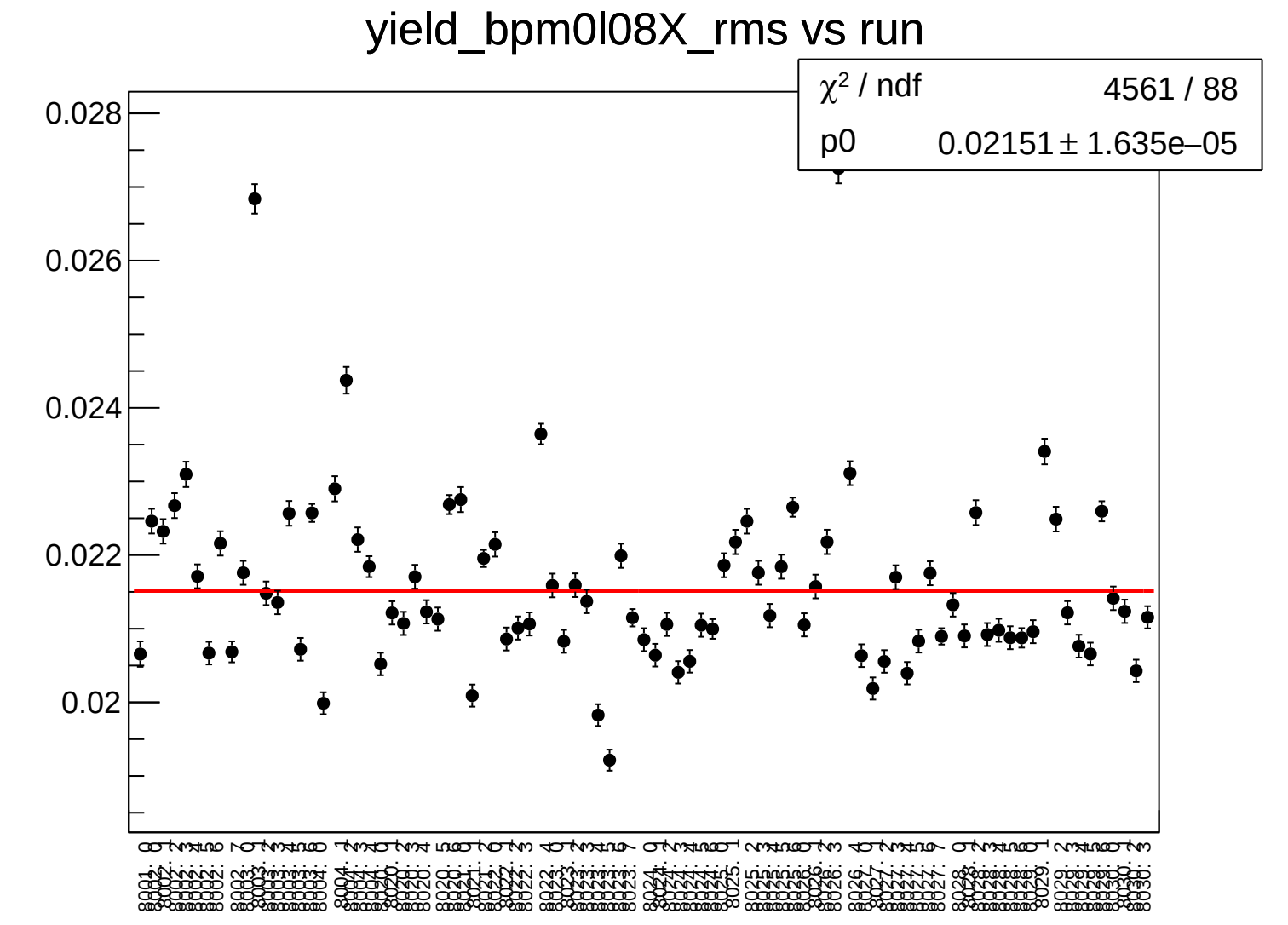

yield_bpm0l07Y_mean vs run
χ² / ndf 1.811e+07 / 88
p0 0.366 ± 3.713e−06
0.41
0.4
0.39
0.38
0.37
0.36
0.35
0.34
pull
Entries 89
Mean −391.7
Std Dev 0
1000
500
0
−500
−1000

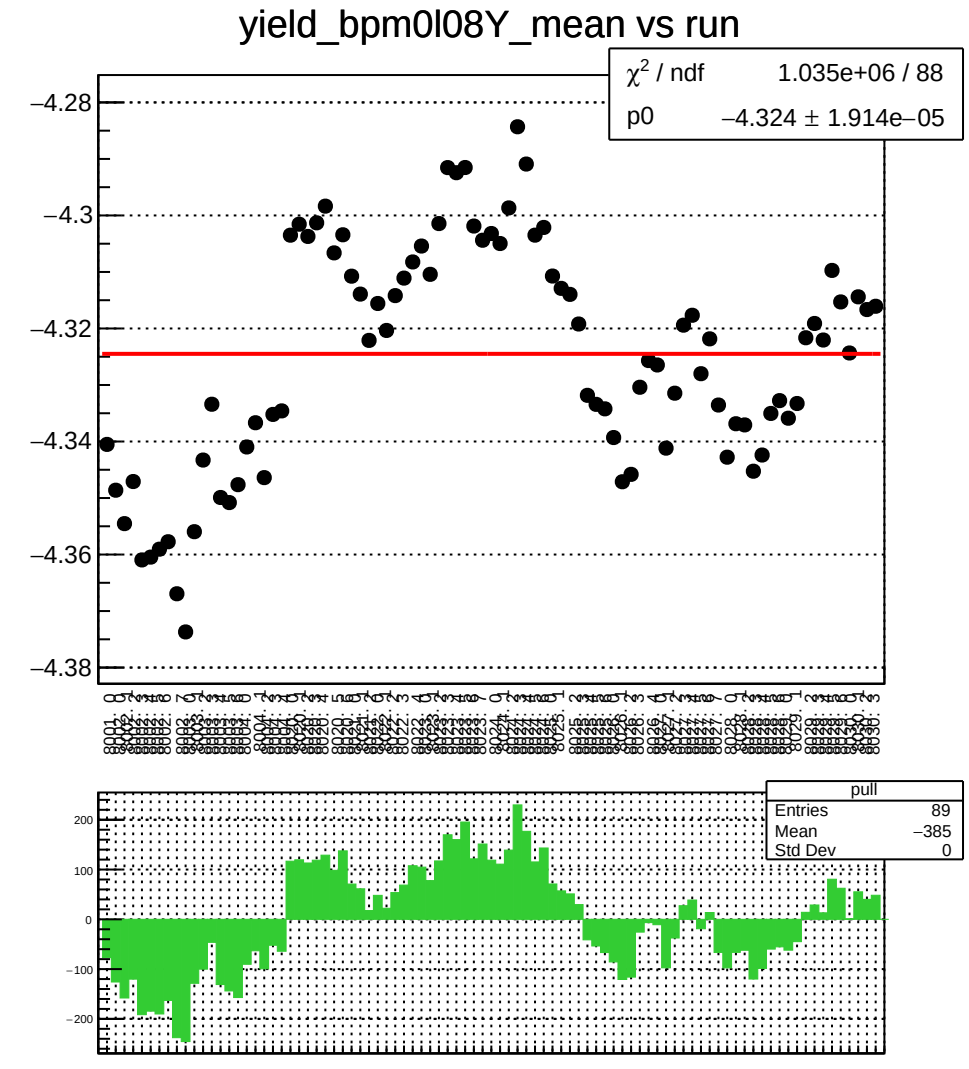

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

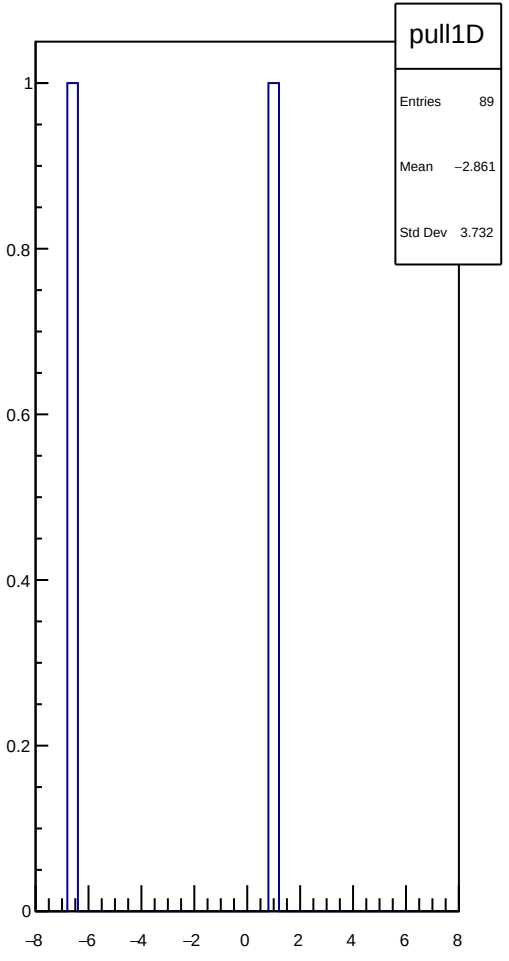

yield_bpm0l07Y_rms vs run
χ² / ndf 7.396e+04 / 88
p0 0.003384 ± 2.626e−06
0.008
0.007
0.006
0.005
0.004
0.003

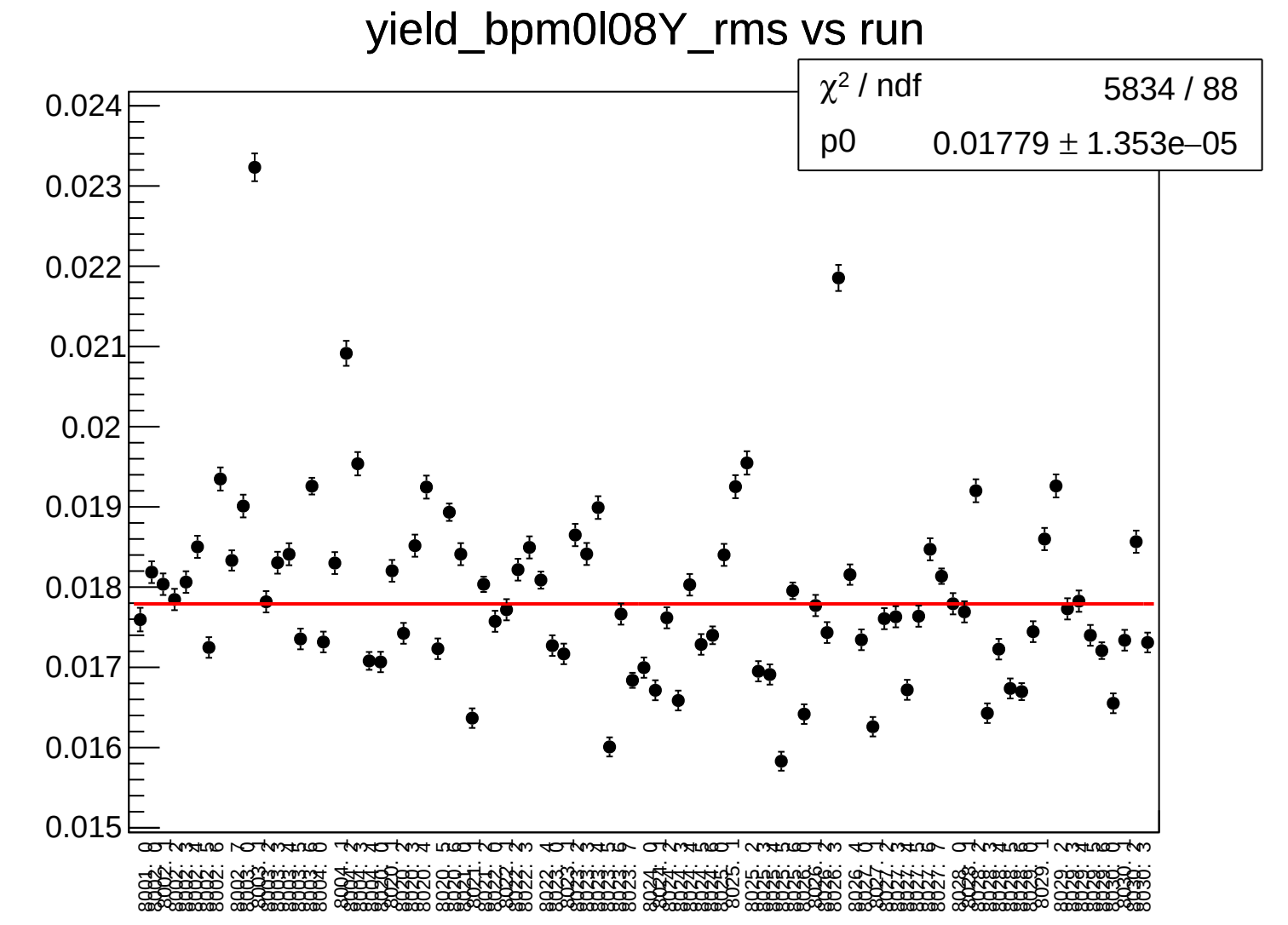

yield_bpm0l08X_mean vs run
χ² / ndf 8.096e+05 / 88
p0 2.291± 2.313e−05
2.34
2.32
2.3
2.28
2.26
2.24
pull
Entries 89
Mean 59.53
Std Dev 118
200
150
100
50
0
−50
−100
−150
−200

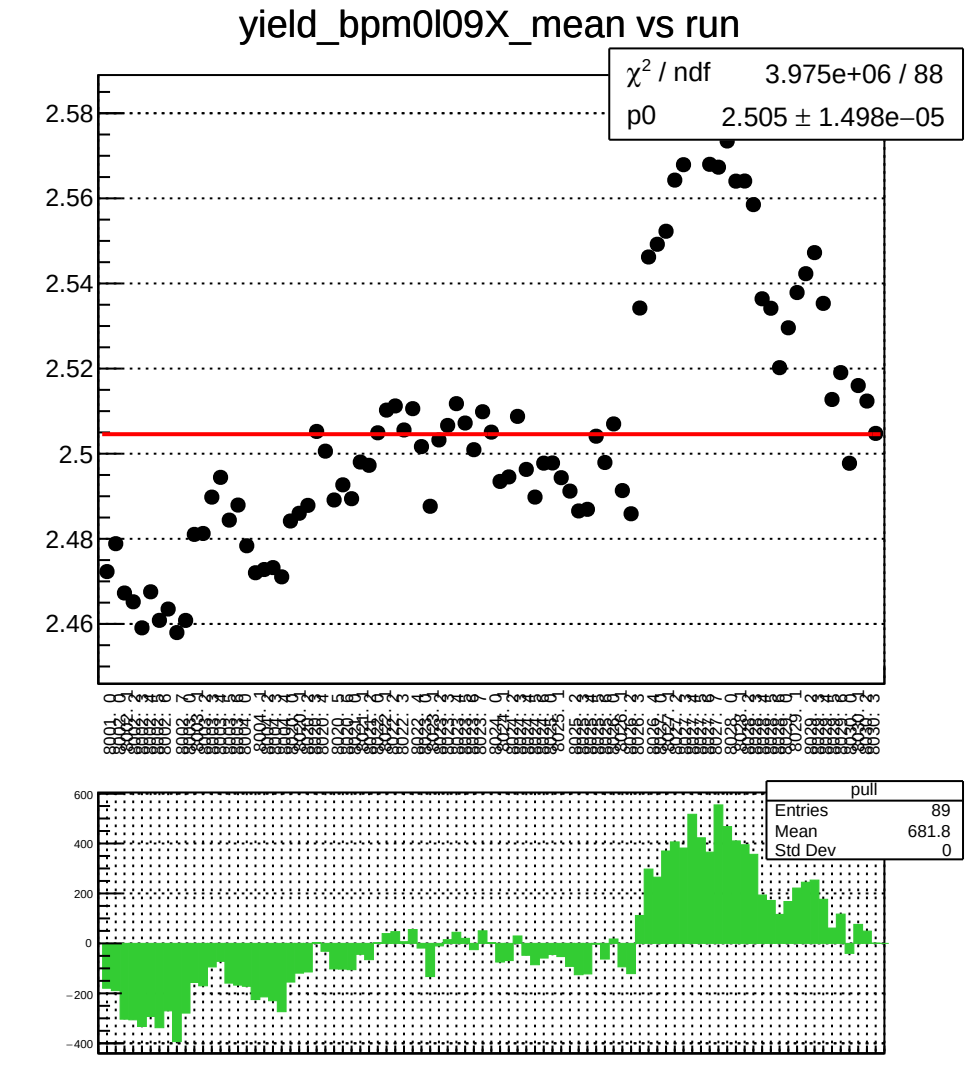

pull1D
Entries 89
Mean −1.101
Std Dev 3.248
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

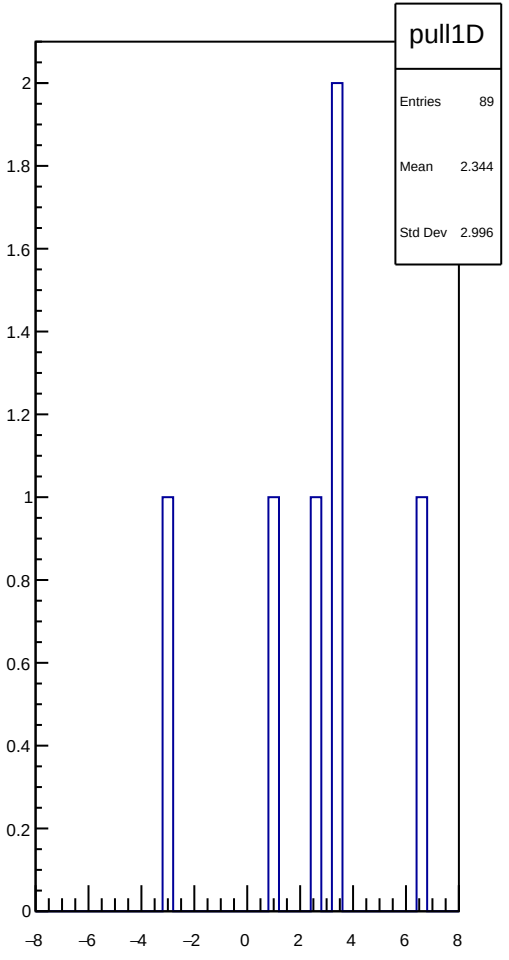

yield_bpm0l08X_rms vs run
χ² / ndf 4561 / 88
p0 0.02151 ± 1.635e−05
0.028
0.026
0.024
0.022
0.02

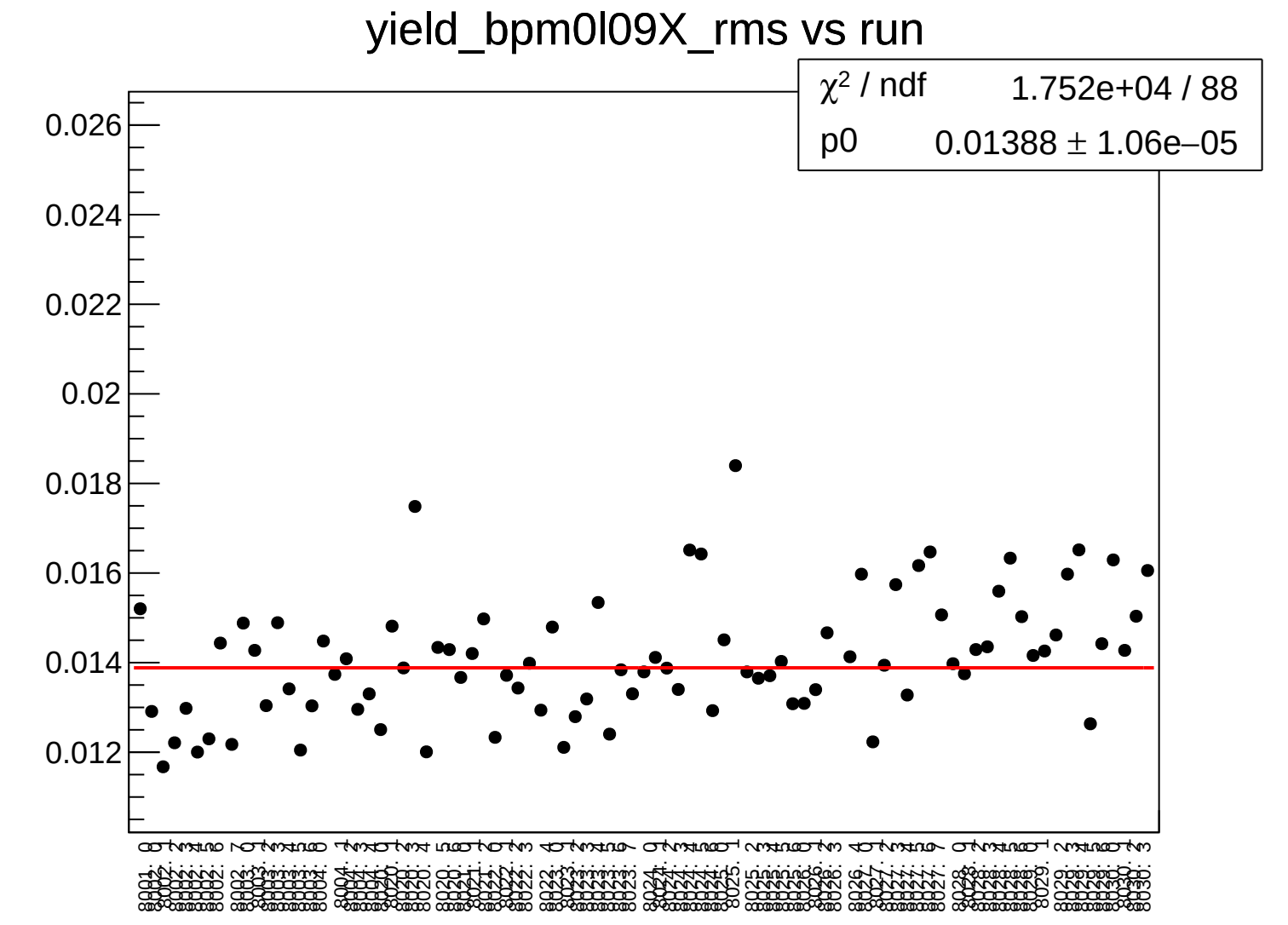

yield_bpm0l08Y_mean vs run
χ² / ndf 1.035e+06 / 88
p0 −4.324 ± 1.914e−05
−4.28
−4.3
−4.32
−4.34
−4.36
−4.38
pull
Entries 89
Mean −385
Std Dev 0
200
100
0
−100
−200

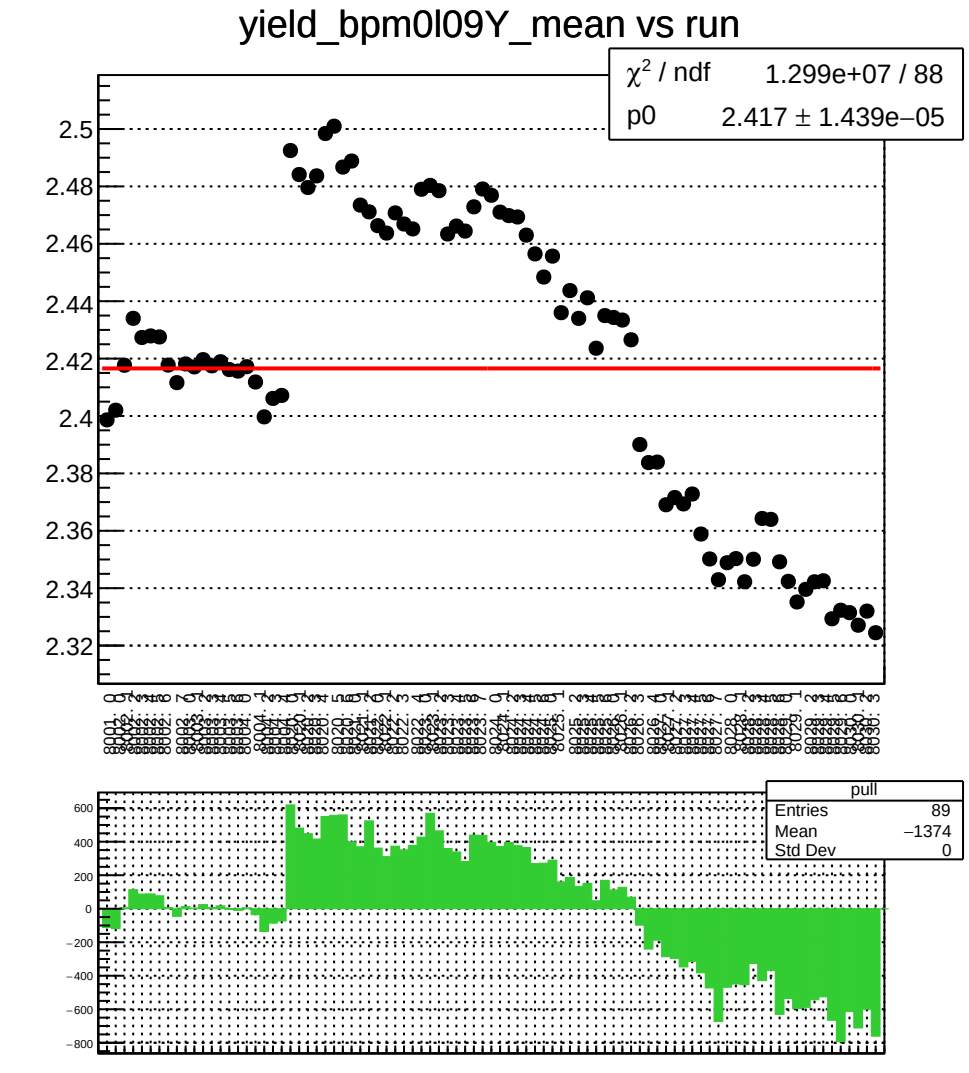

pull1D
Entries 89
Mean −2.861
Std Dev 3.732
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

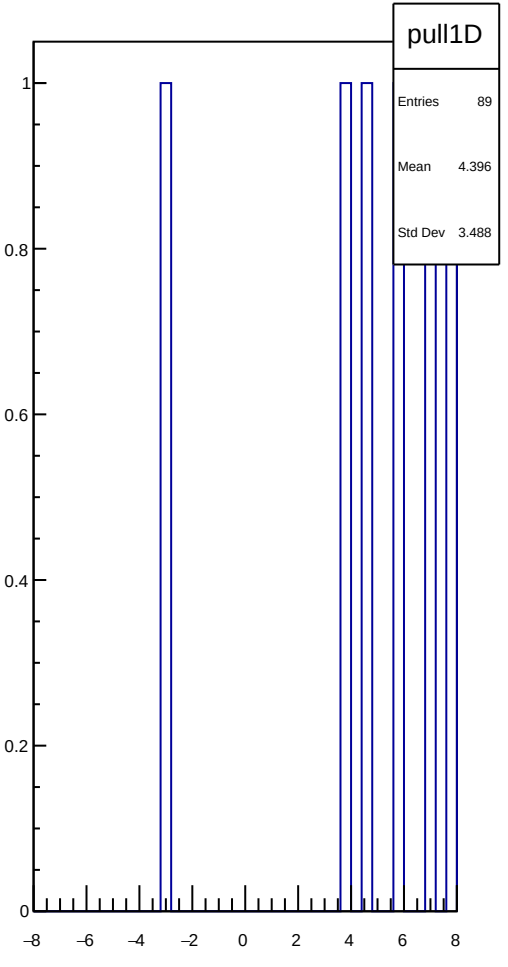

yield_bpm0l08Y_rms vs run
χ² / ndf 5834 / 88
p0 0.01779 ± 1.353e–05
0.024
0.023
0.022
0.021
0.02
0.019
0.018
0.017
0.016
0.015

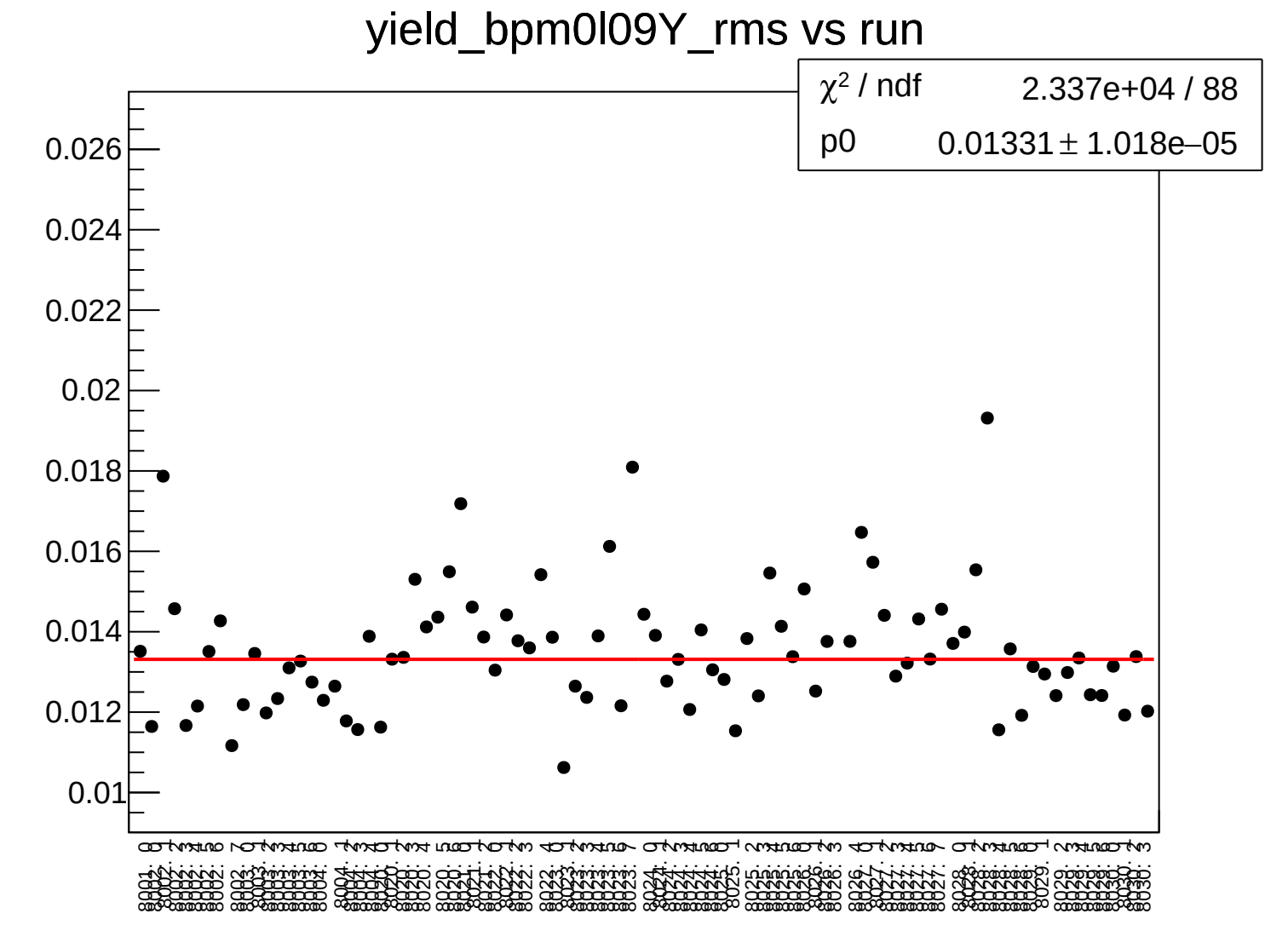

yield_bpm0l09X_mean vs run
χ² / ndf 3.975e+06 / 88
p0 2.505 ± 1.498e−05
2.58
2.56
2.54
2.52
2.5
2.48
2.46
pull
Entries 89
Mean 681.8
Std Dev 0
600
400
200
0
−200
−400

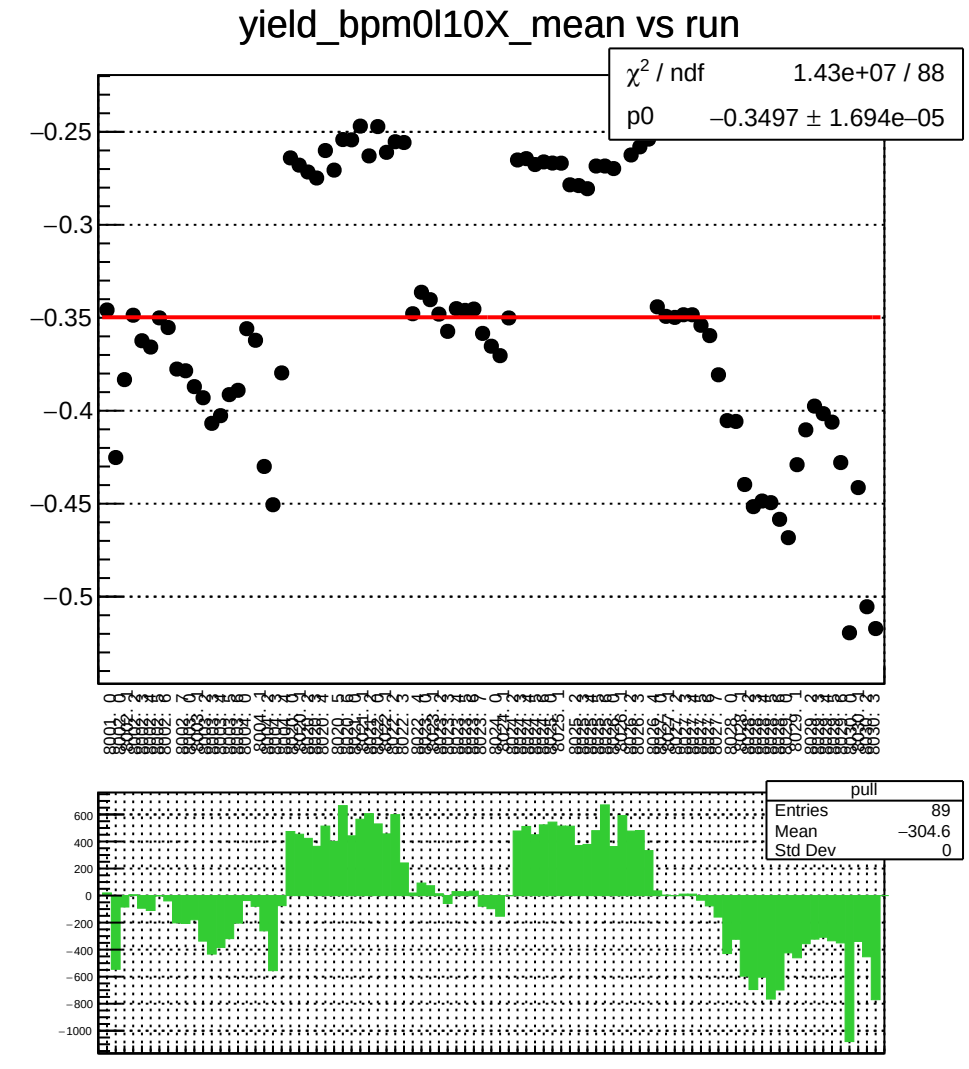

pull1D
Entries 89
Mean 2.344
Std Dev 2.996
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

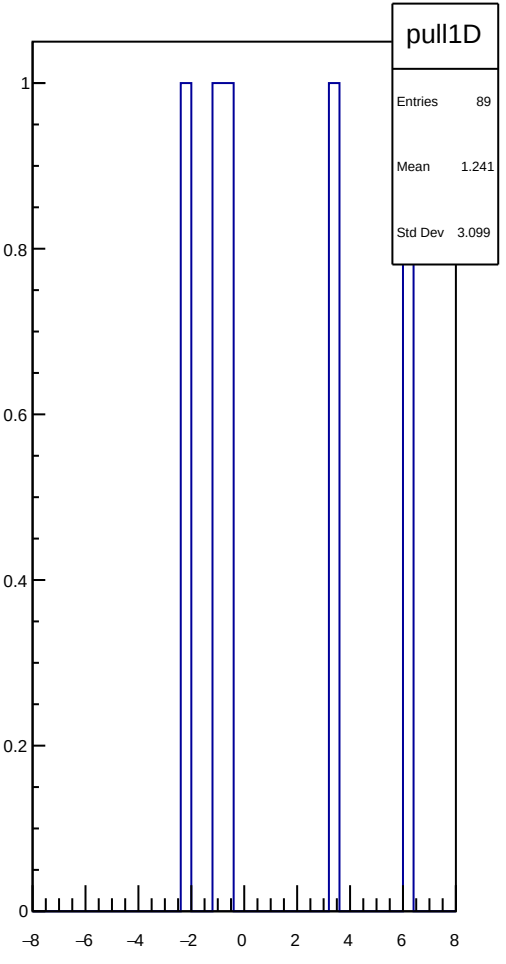

yield_bpm0l09X_rms vs run
χ² / ndf 1.752e+04 / 88
p0 0.01388 ± 1.06e−05
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012

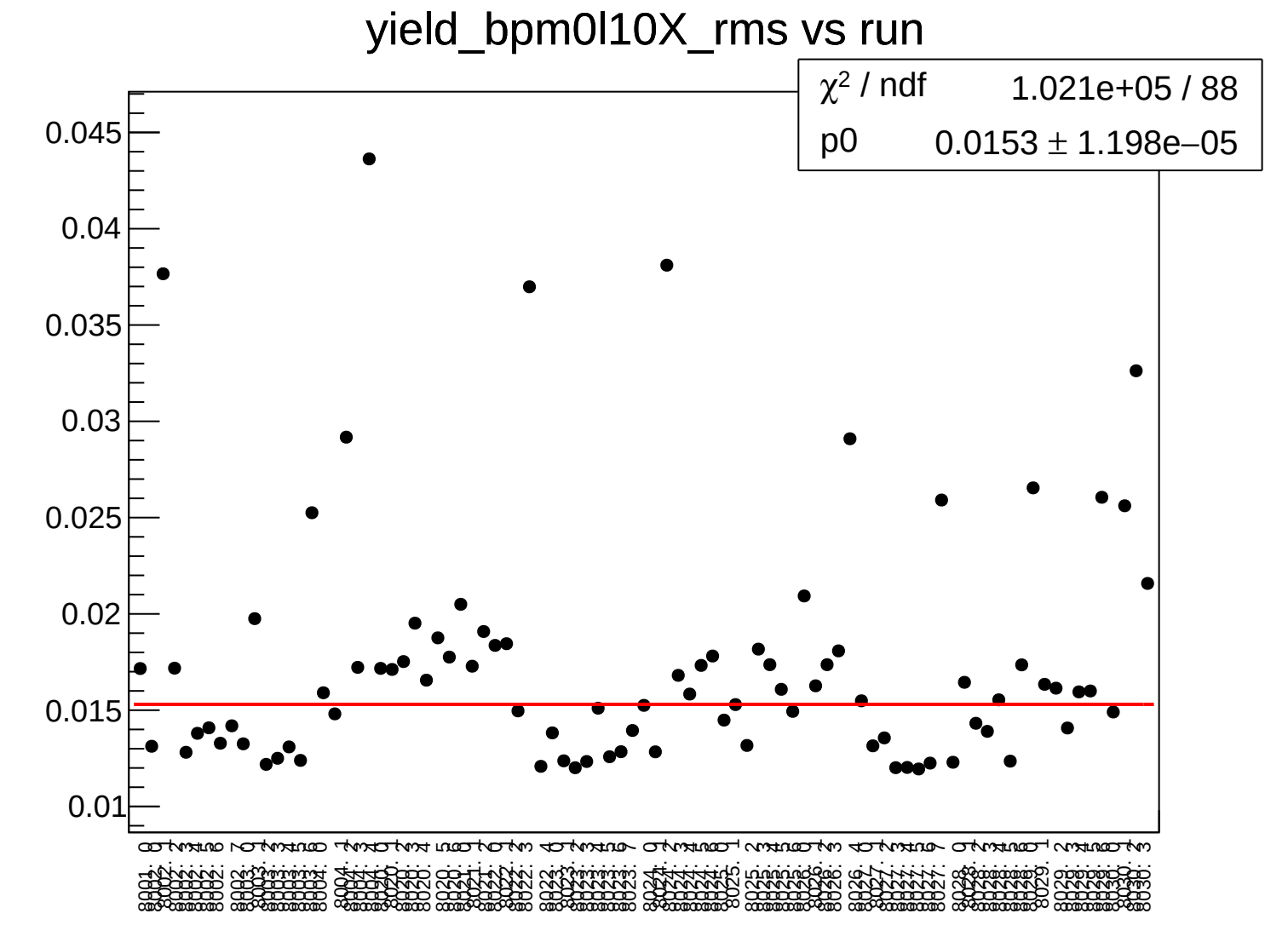

yield_bpm0l09Y_mean vs run
χ² / ndf 1.299e+07 / 88
p0 2.417 ± 1.439e−05
2.5
2.48
2.46
2.44
2.42
2.4
2.38
2.36
2.34
2.32
pull
Entries 89
Mean −1374
Std Dev 0
600
400
200
0
−200
−400
−600
−800

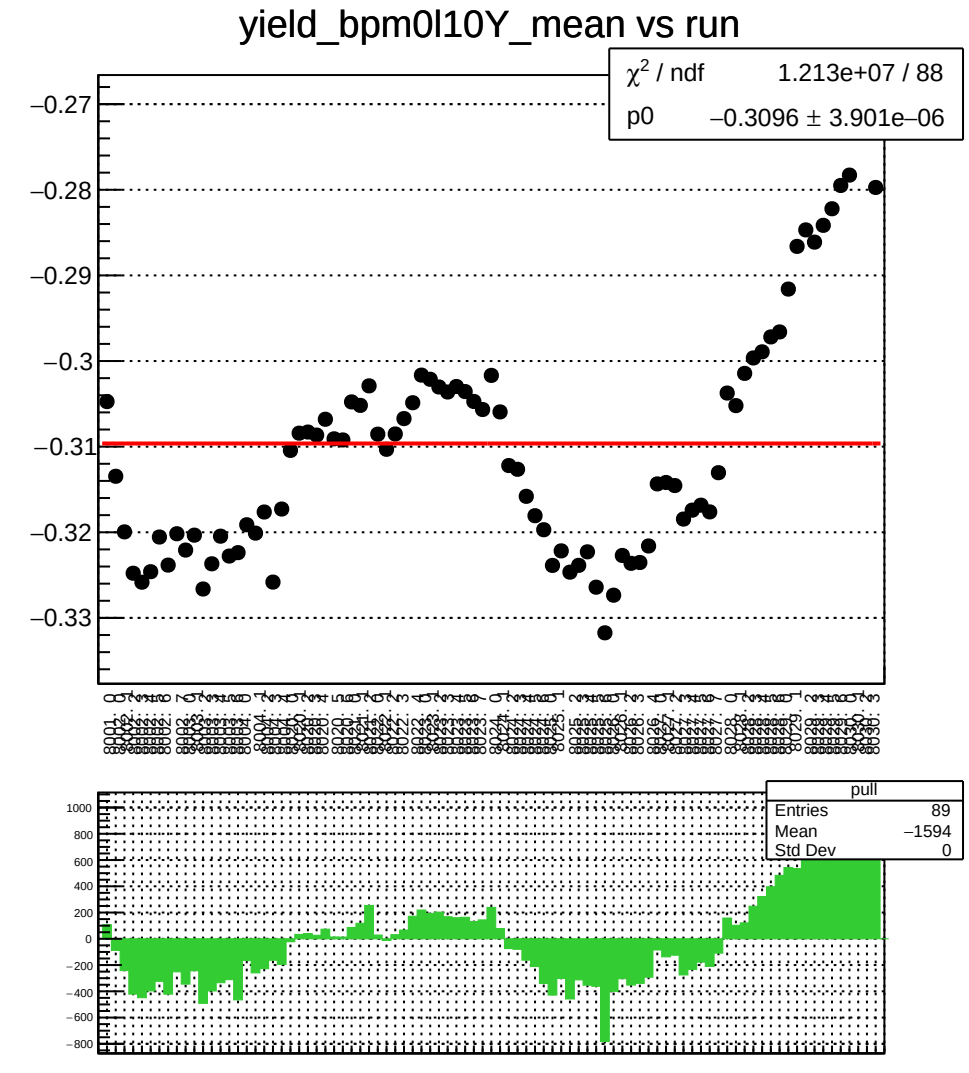

pull1D
Entries 89
Mean 4.396
Std Dev 3.488
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

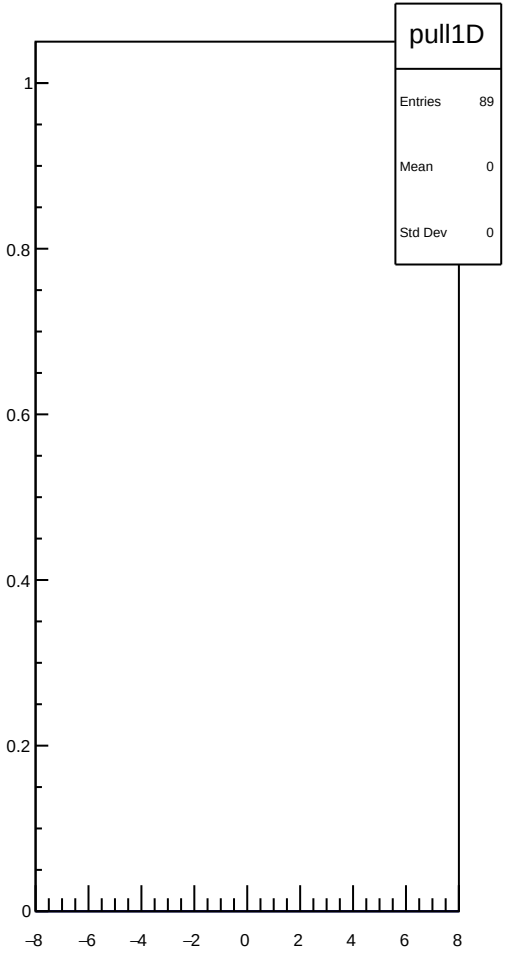

yield_bpm0l09Y_rms vs run
χ² / ndf 2.337e+04 / 88
p0 0.01331 ± 1.018e–05
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

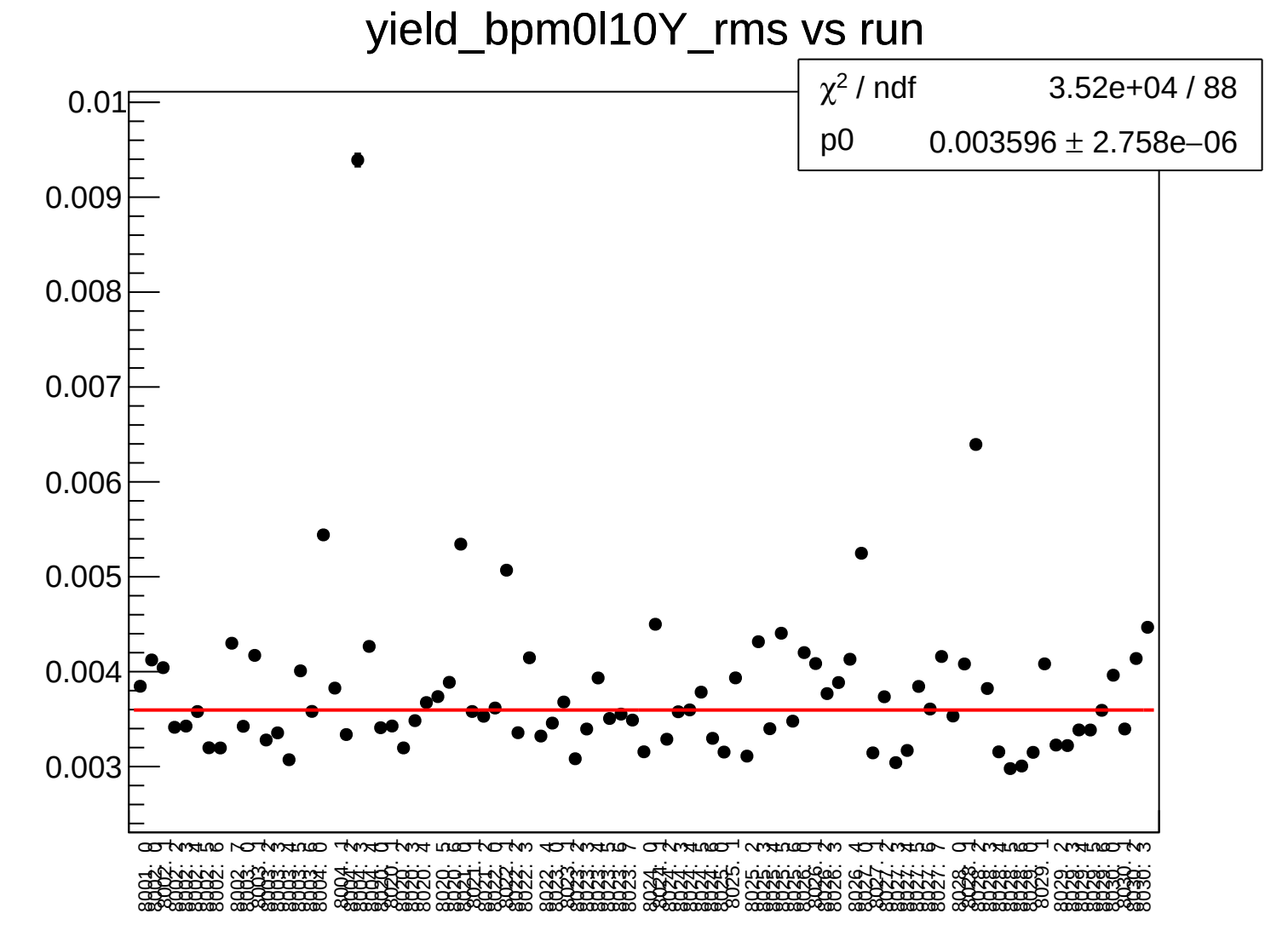

yield_bpm0l10X_mean vs run
χ² / ndf 1.43e+07 / 88
p0 −0.3497 ± 1.694e−05
−0.25
−0.3
−0.35
−0.4
−0.45
−0.5
pull
Entries 89
Mean −304.6
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000

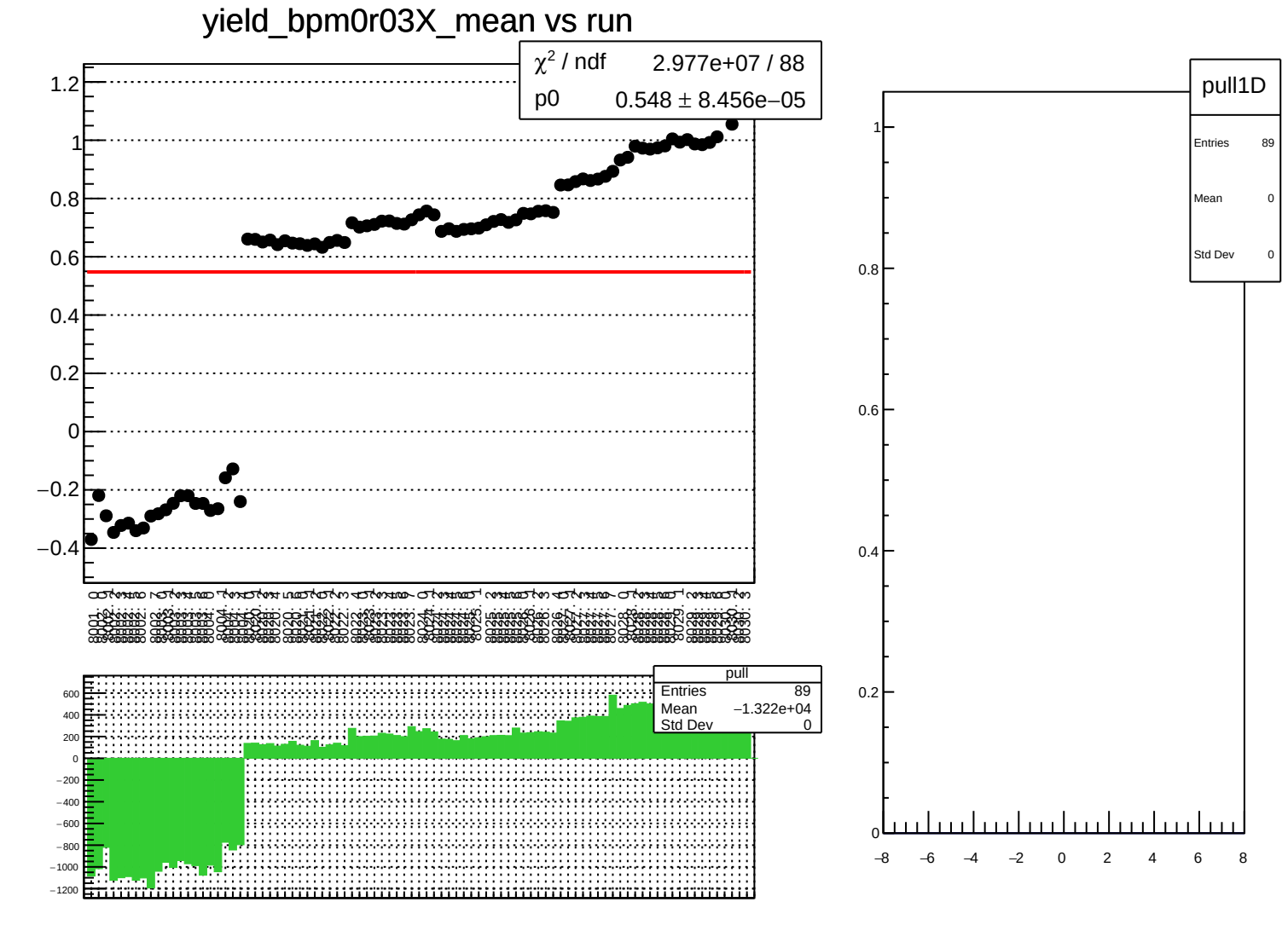

pull1D
Entries 89
Mean 1.241
Std Dev 3.099
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

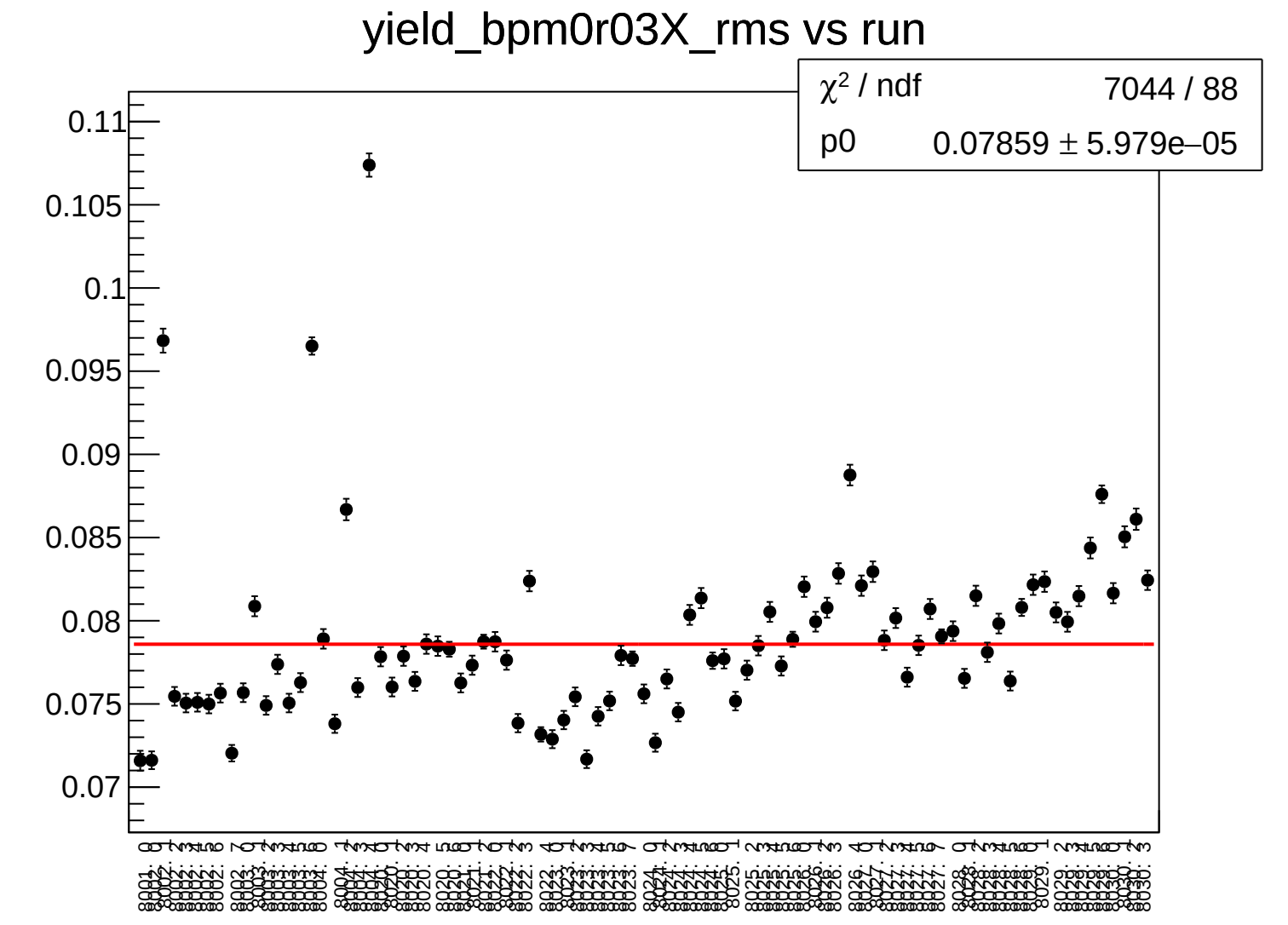

yield_bpm0l10X_rms vs run
χ² / ndf 1.021e+05 / 88
p0 0.0153 ± 1.198e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

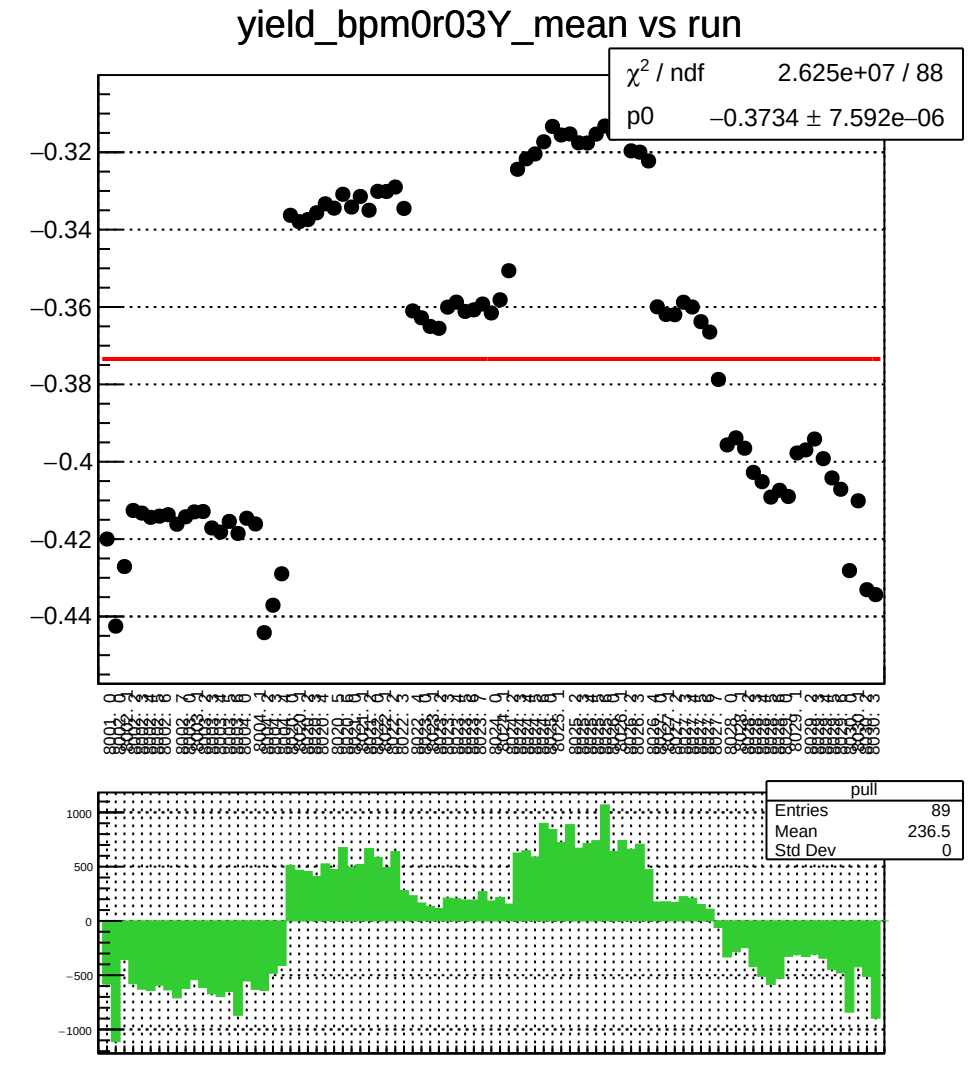

yield_bpm0l10Y_mean vs run
χ² / ndf 1.213e+07 / 88
p0 −0.3096 ± 3.901e−06
−0.27
−0.28
−0.29
−0.3
−0.31
−0.32
−0.33
pull
Entries 89
Mean −1594
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600
−800

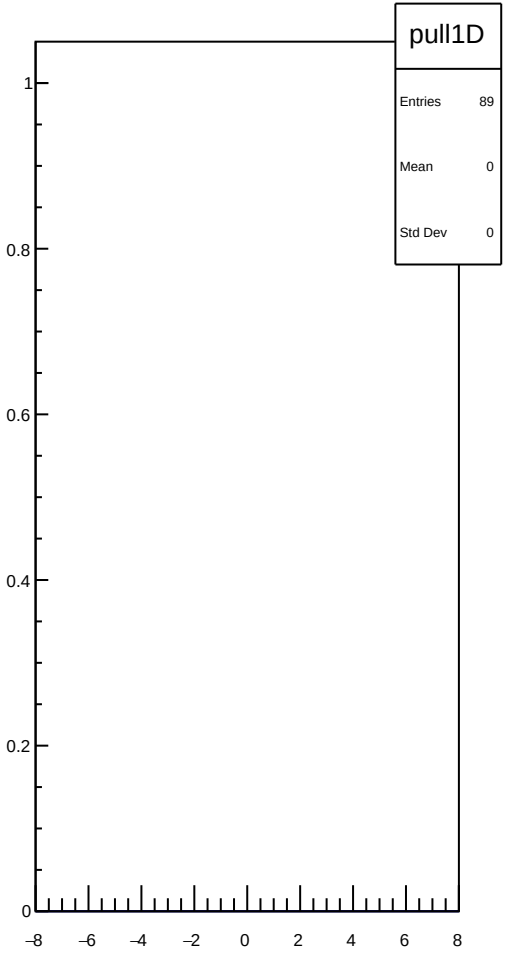

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

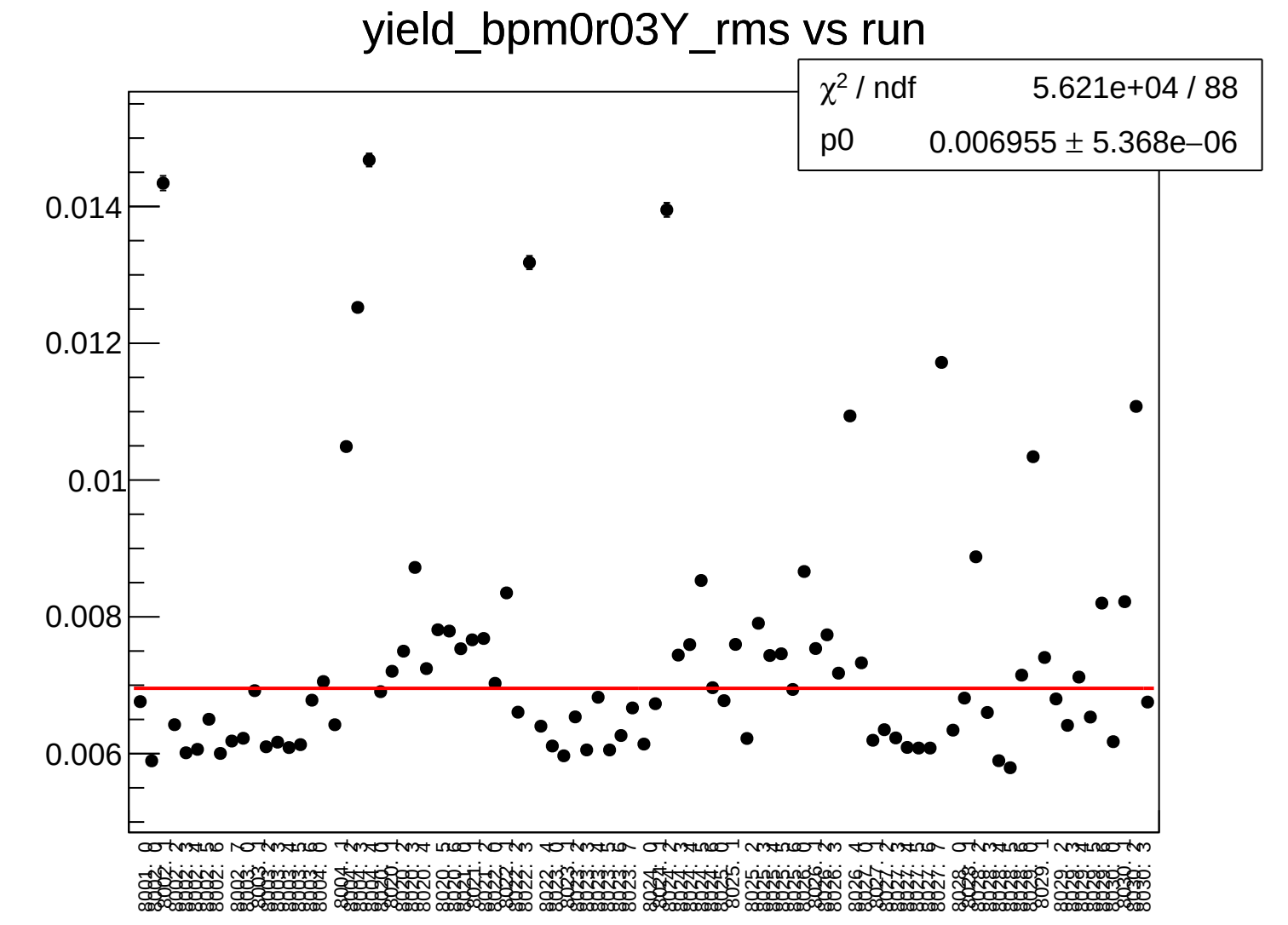

yield_bpm0l10Y_rms vs run
χ^2 / ndf 3.52e+04 / 88
p0 0.003596 ± 2.758e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

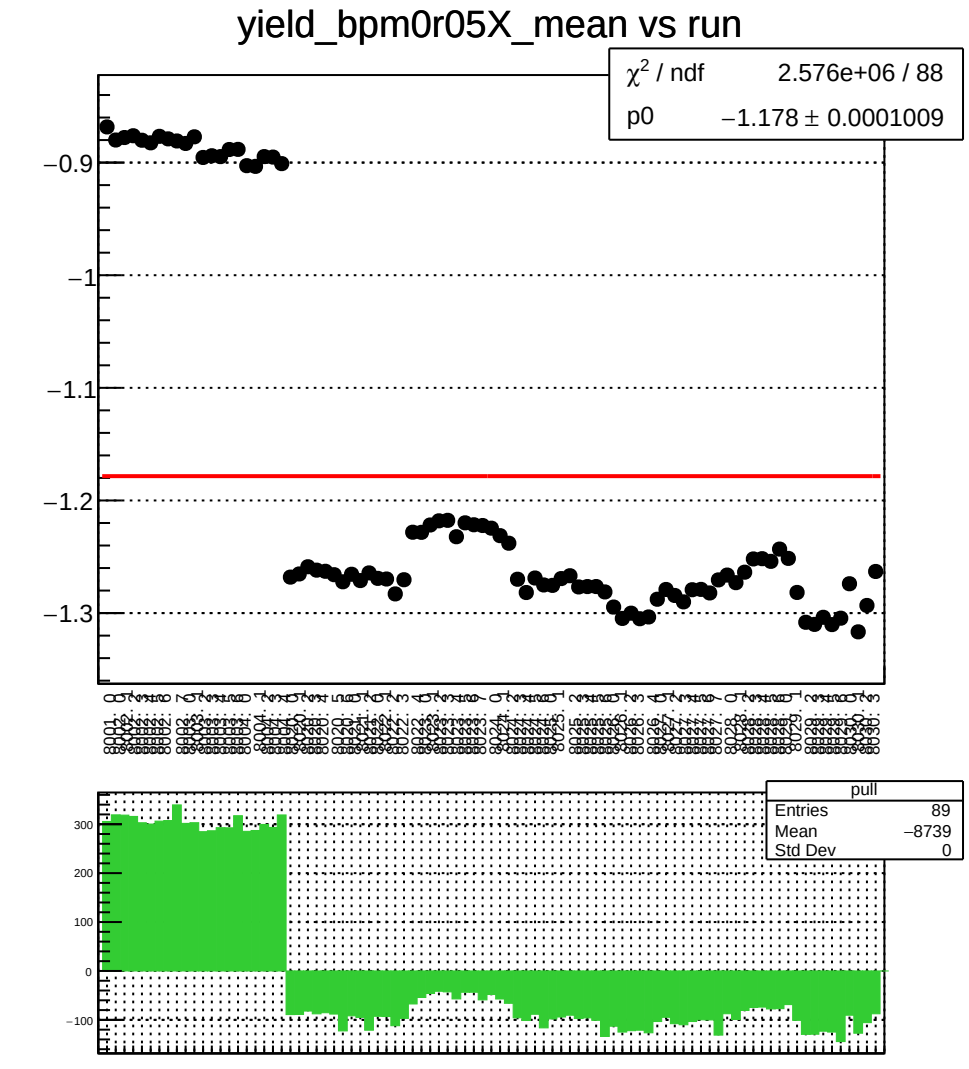

yield_bpm0r03X_mean vs run
χ² / ndf 2.977e+07 / 88
p0 0.548 ± 8.456e−05
pull
Entries 89
Mean −1.322e+04
Std Dev 0
pull1D
Entries 89
Mean 0
Std Dev 0

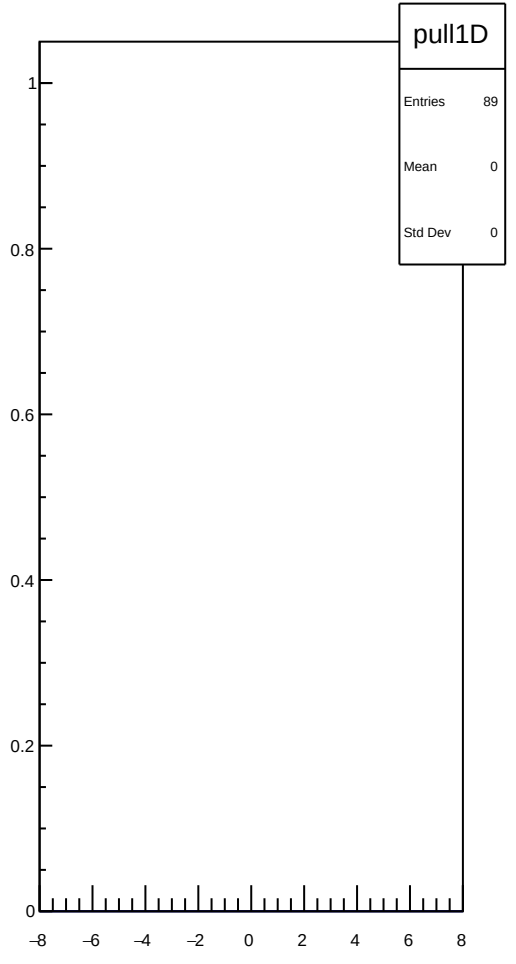

yield_bpm0r03X_rms vs run
χ² / ndf 7044 / 88
p0 0.07859 ± 5.979e−05
0.11
0.105
0.1
0.095
0.09
0.085
0.08
0.075
0.07

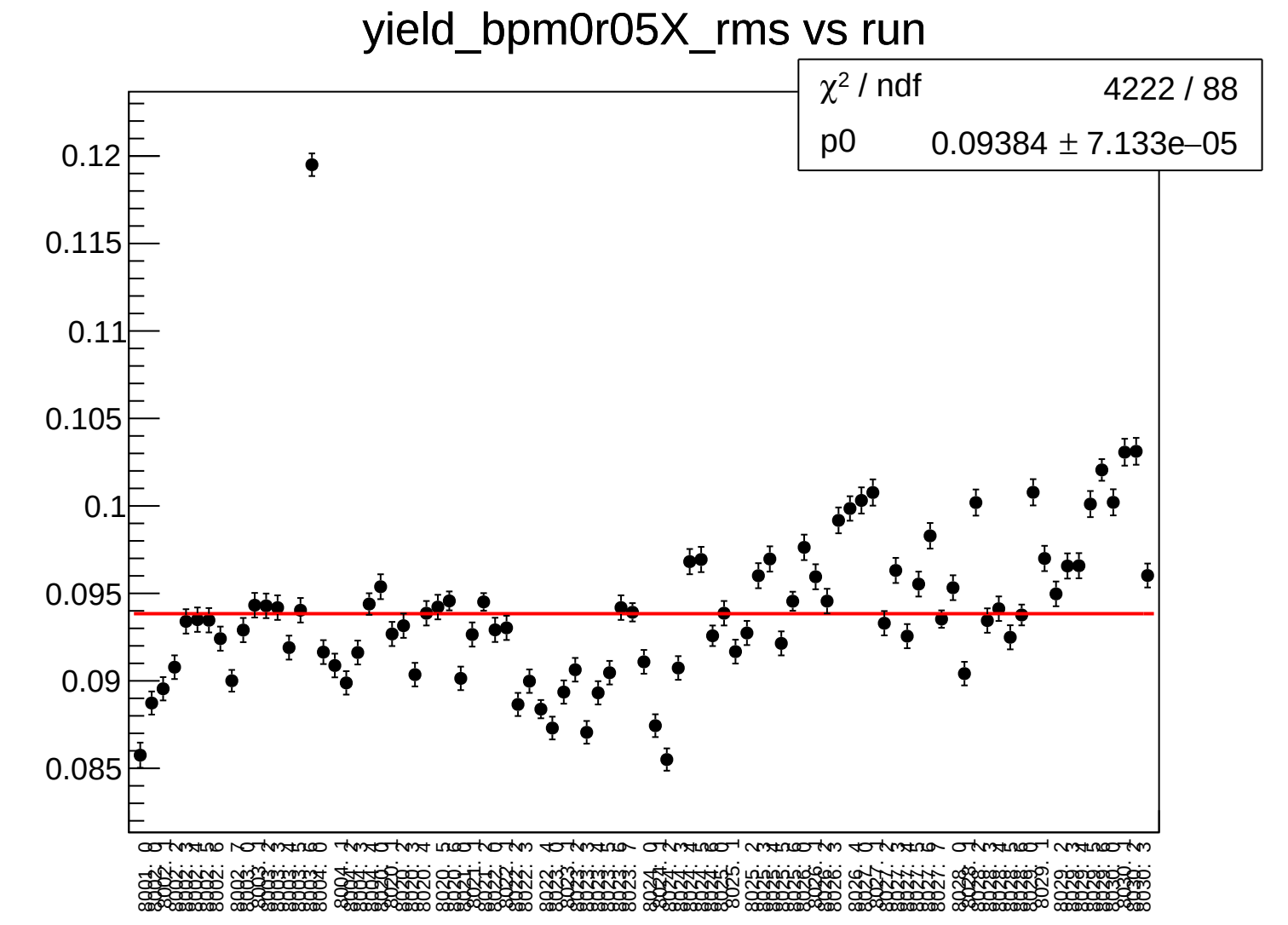

yield_bpm0r03Y_mean vs run
χ² / ndf 2.625e+07 / 88
p0 −0.3734 ± 7.592e−06
−0.32
−0.34
−0.36
−0.38
−0.4
−0.42
−0.44
pull
Entries 89
Mean 236.5
Std Dev 0
1000
500
0
−500
−1000

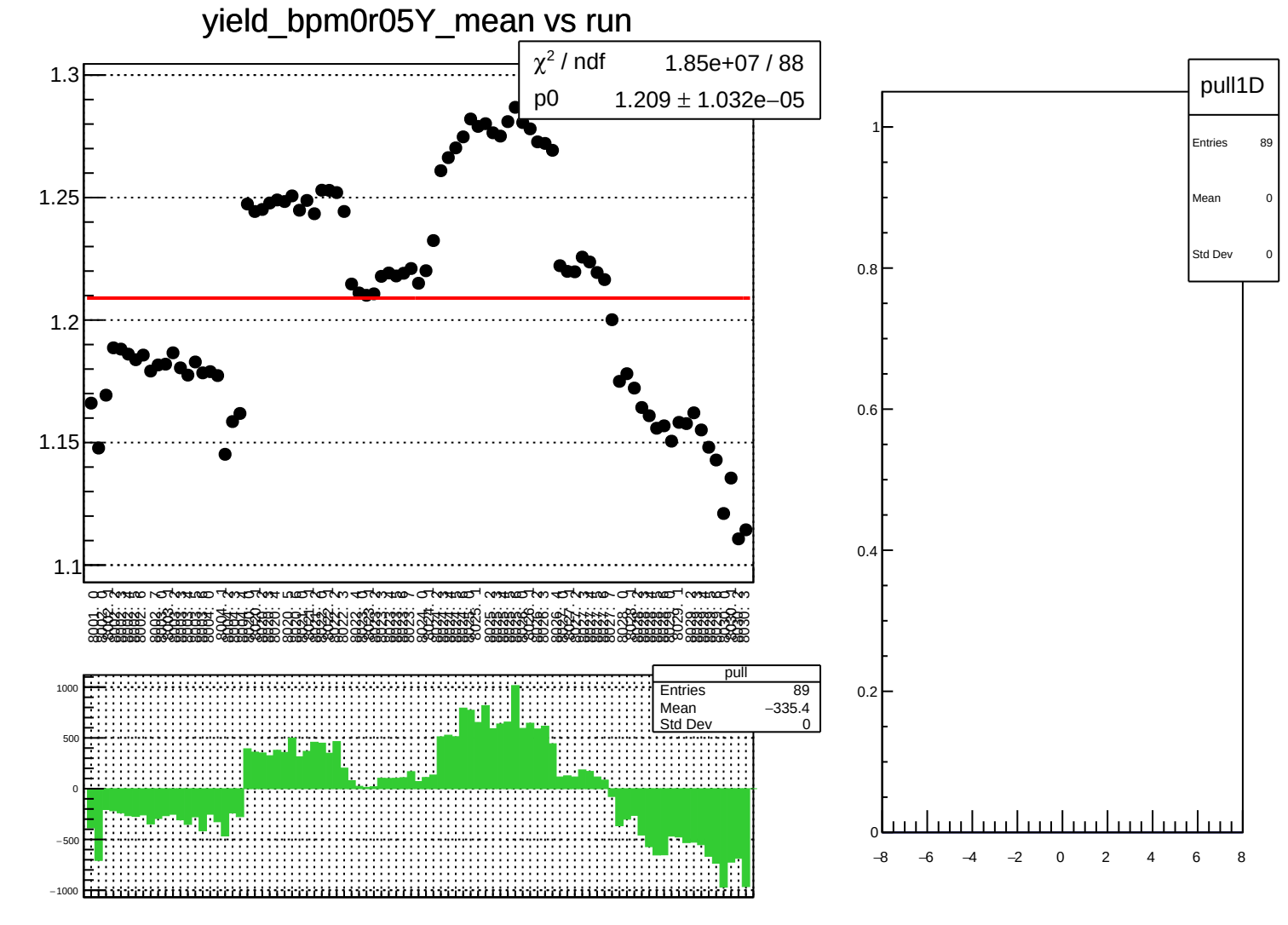

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

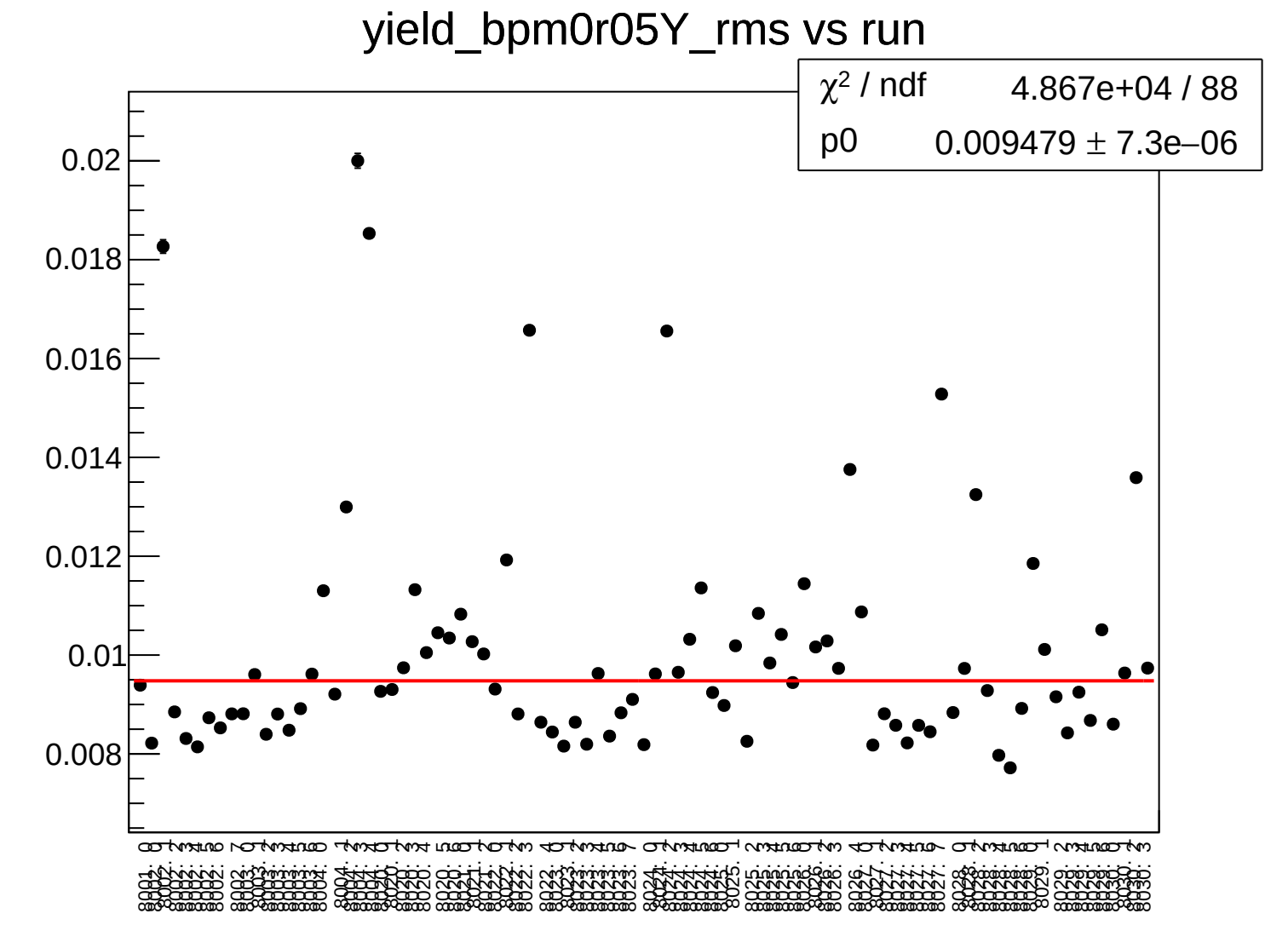

yield_bpm0r03Y_rms vs run
χ^2 / ndf 5.621e+04 / 88
p0 0.006955 ± 5.368e−06
0.014
0.012
0.01
0.008
0.006

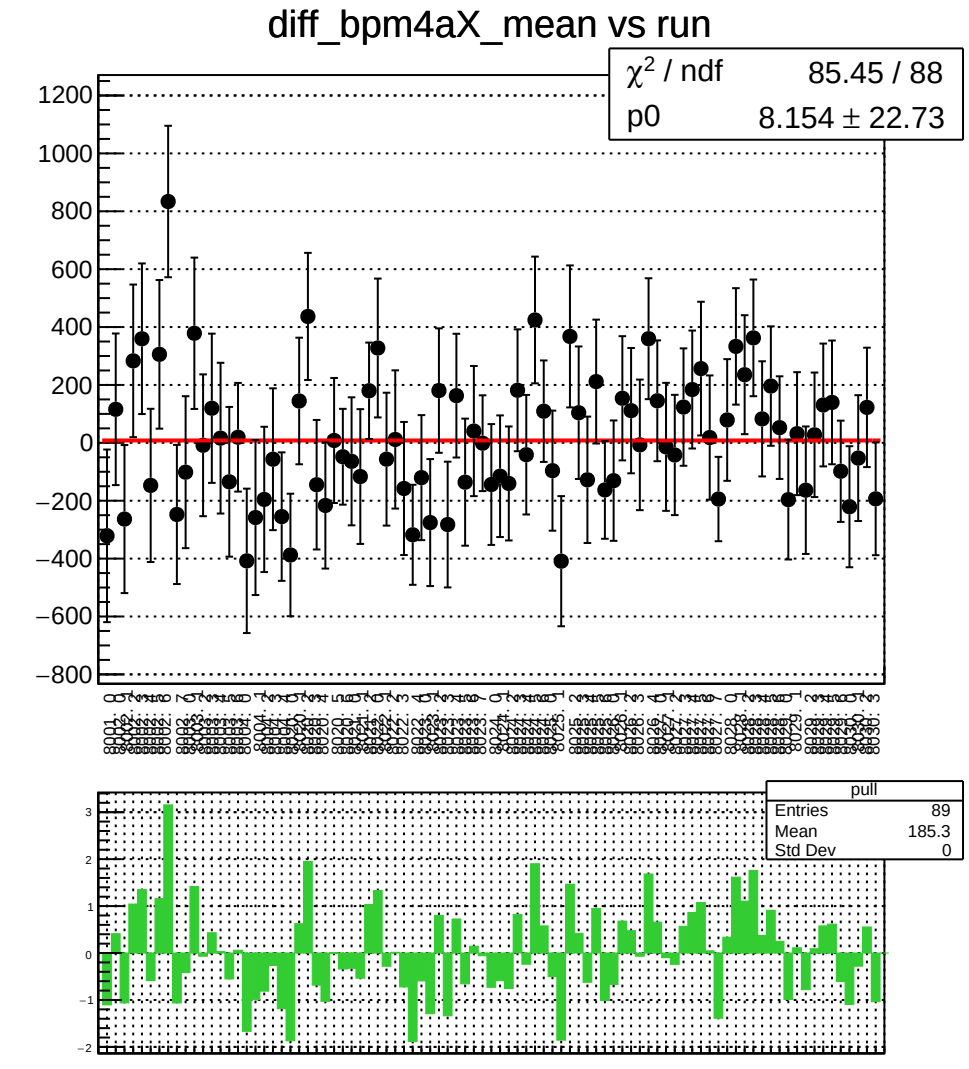

yield_bpm0r05X_mean vs run
χ² / ndf 2.576e+06 / 88
p0 −1.178 ± 0.0001009
−0.9
−1
−1.1
−1.2
−1.3
pull
Entries 89
Mean −8739
Std Dev 0
300
200
100
0
−100

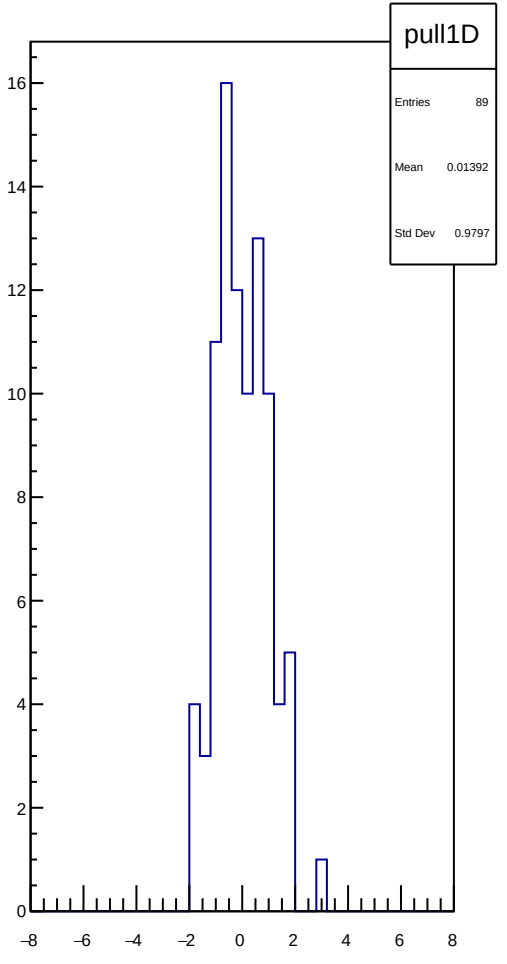

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

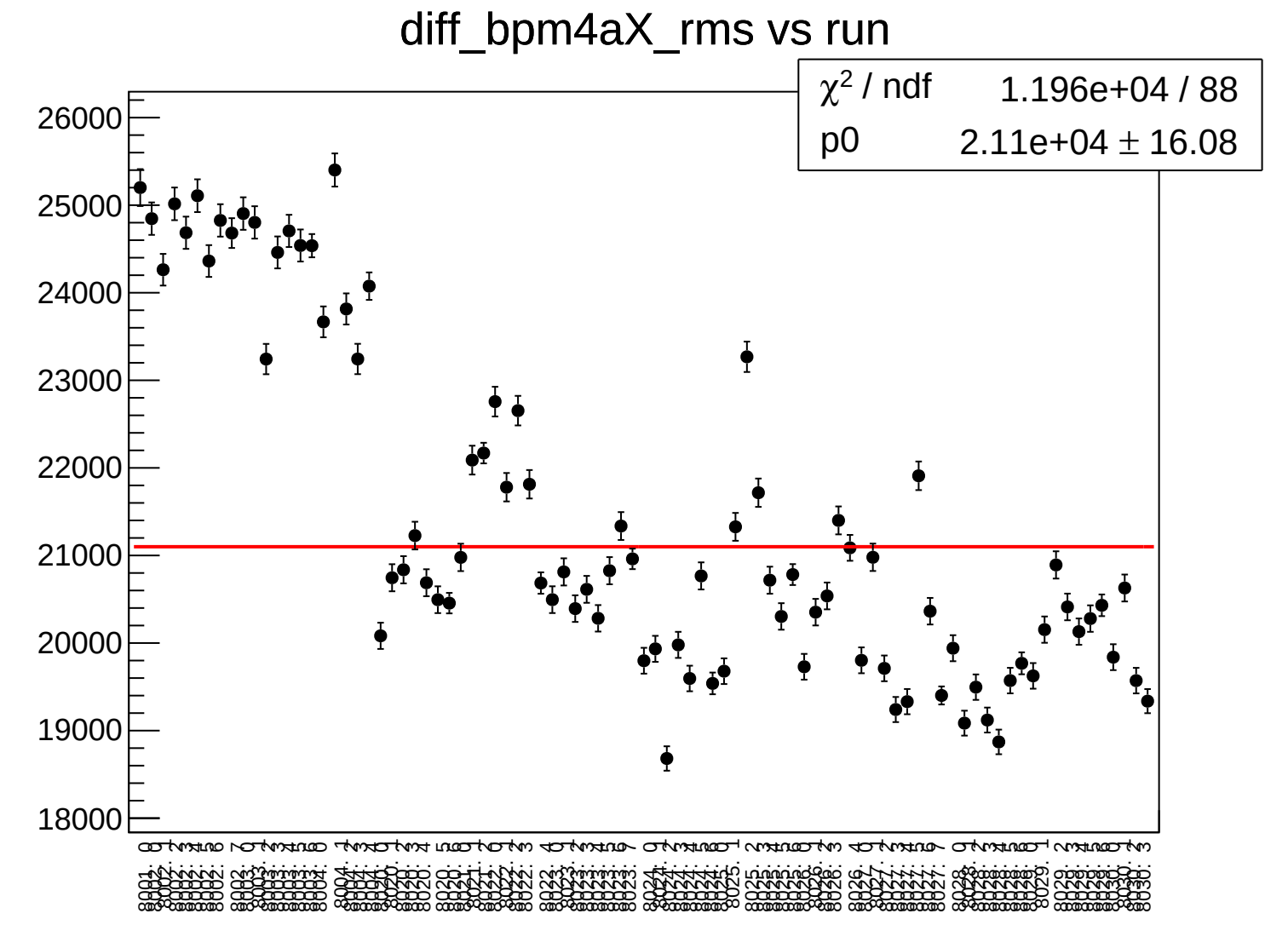

yield_bpm0r05X_rms vs run
χ² / ndf 4222 / 88
p0 0.09384 ± 7.133e–05
0.12
0.115
0.11
0.105
0.1
0.095
0.09
0.085

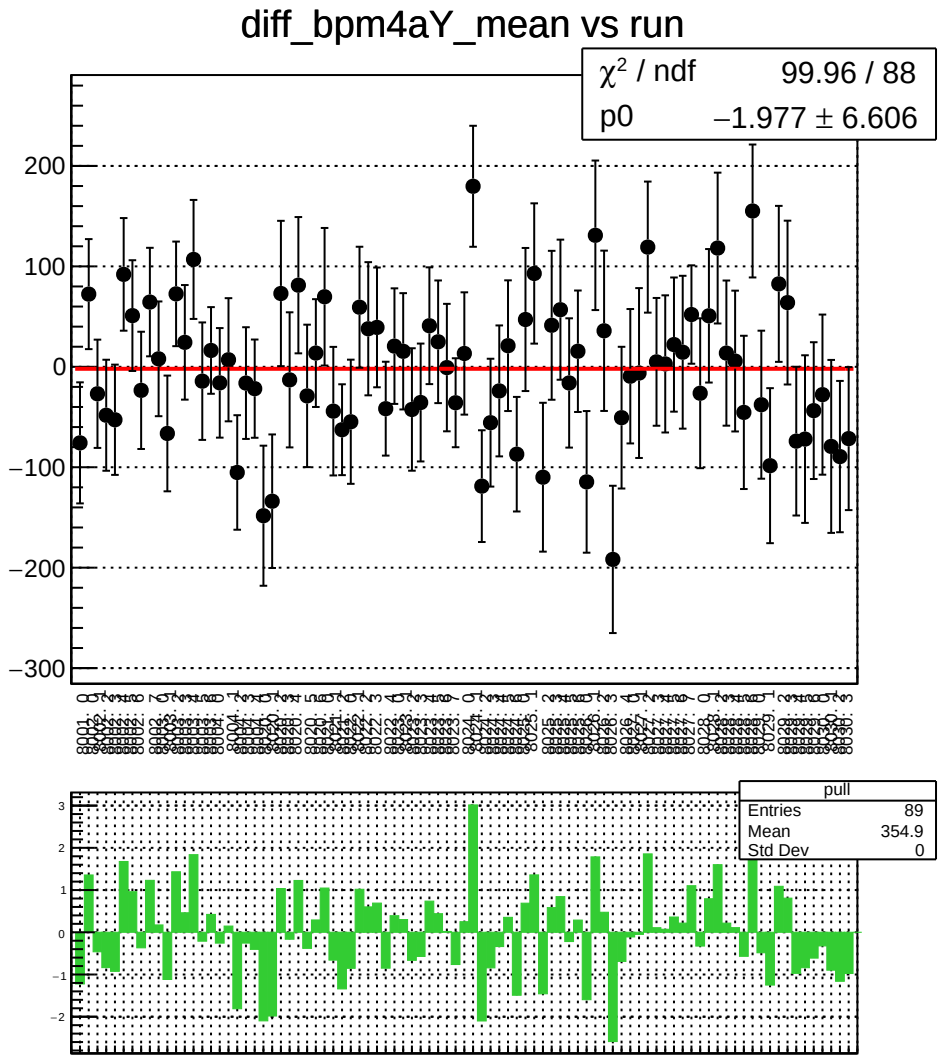

yield_bpm0r05Y_mean vs run
χ² / ndf 1.85e+07 / 88
p0 1.209 ± 1.032e−05
1.3
1.25
1.2
1.15
1.1
pull
Entries 89
Mean −335.4
Std Dev 0
1000
500
0
−500
−1000
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

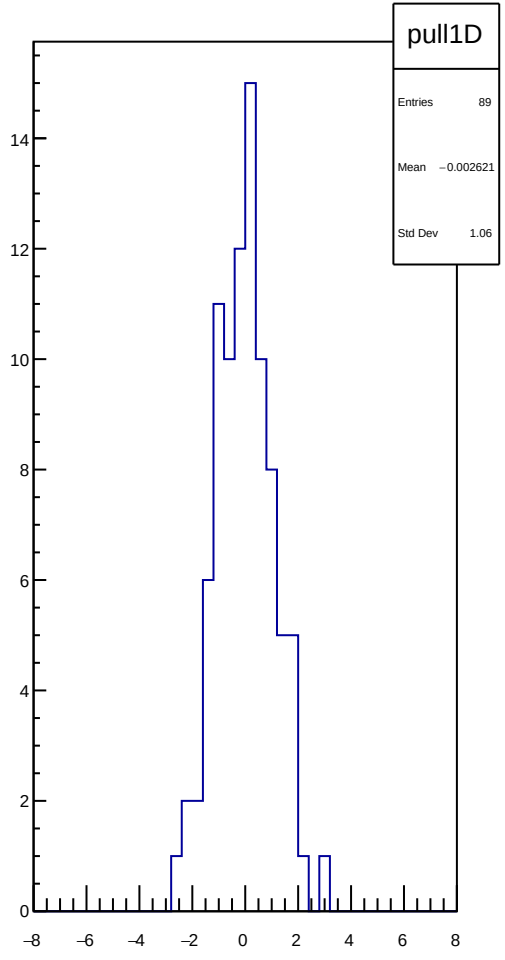

yield_bpm0r05Y_rms vs run
χ² / ndf 4.867e+04 / 88
p0 0.009479 ± 7.3e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008

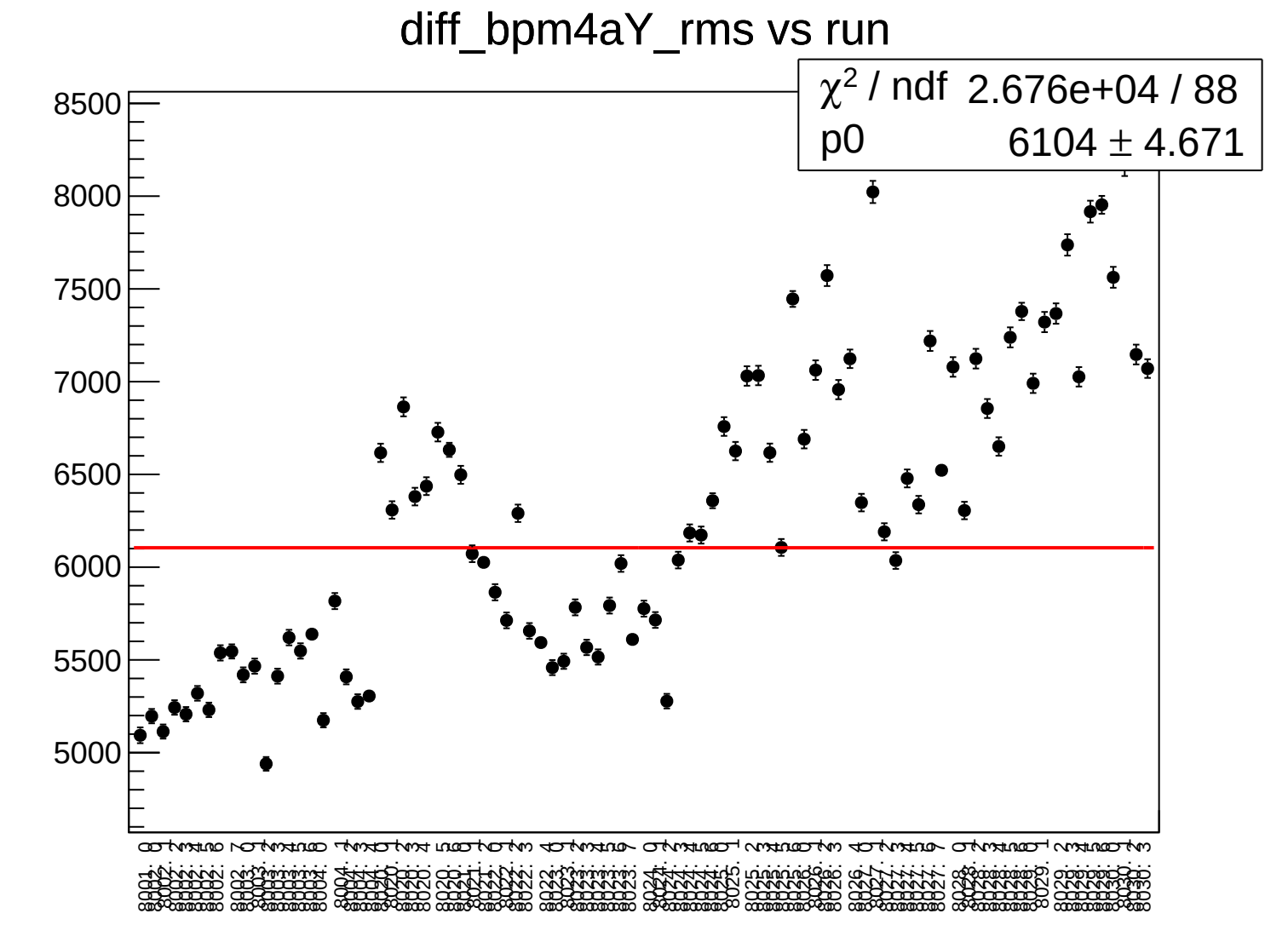

diff_bpm4aX_mean vs run
χ² / ndf 85.45 / 88
p0 8.154 ± 22.73
pull
Entries 89
Mean 185.3
Std Dev 0

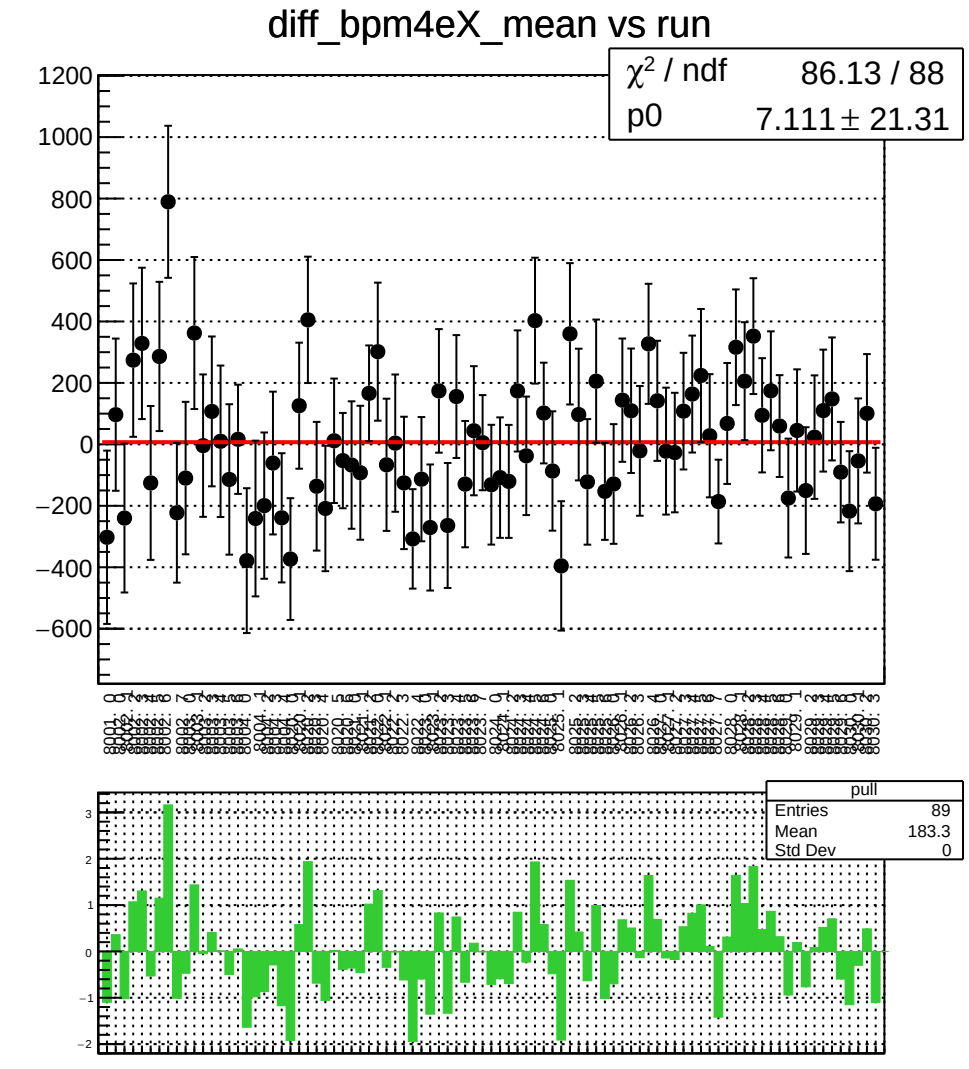

pull1D
Entries 89
Mean 0.01392
Std Dev 0.9797

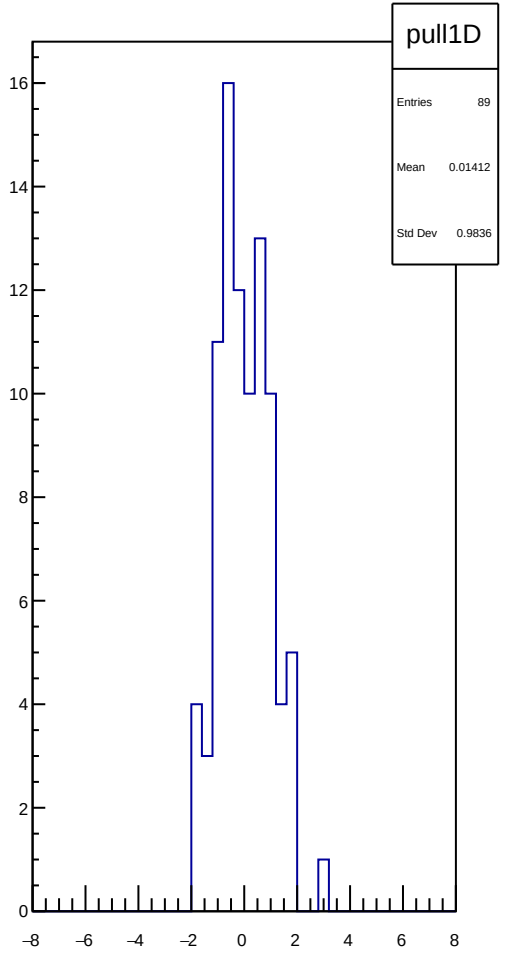

diff_bpm4aX_rms vs run
χ² / ndf 1.196e+04 / 88
p0 2.11e+04 ± 16.08
26000
25000
24000
23000
22000
21000
20000
19000
18000

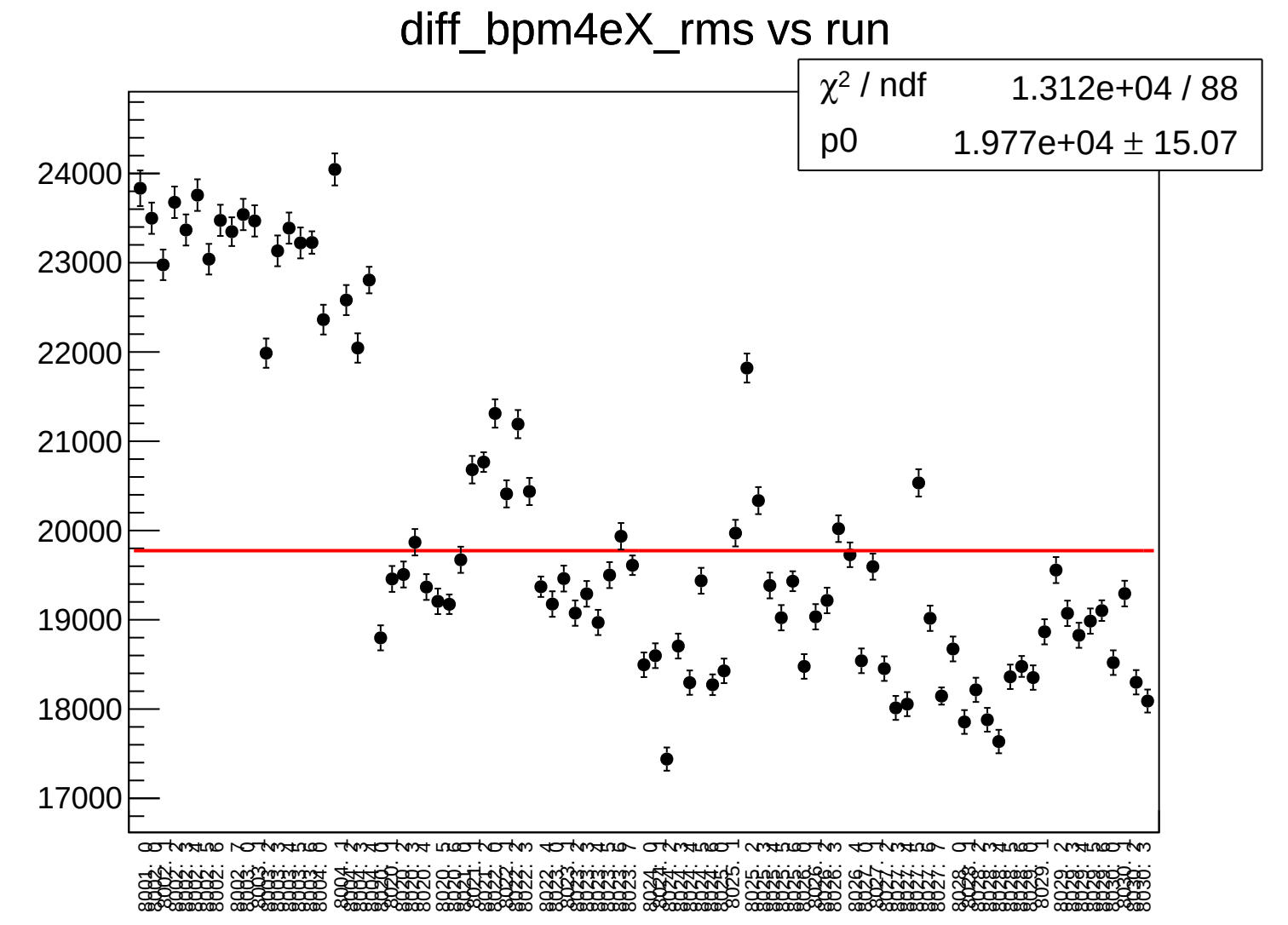

diff_bpm4aY_mean vs run
χ² / ndf 99.96 / 88
p0 −1.977 ± 6.606
200
100
0
−100
−200
−300
pull
Entries 89
Mean 354.9
Std Dev 0
3
2
1
0
−1
−2

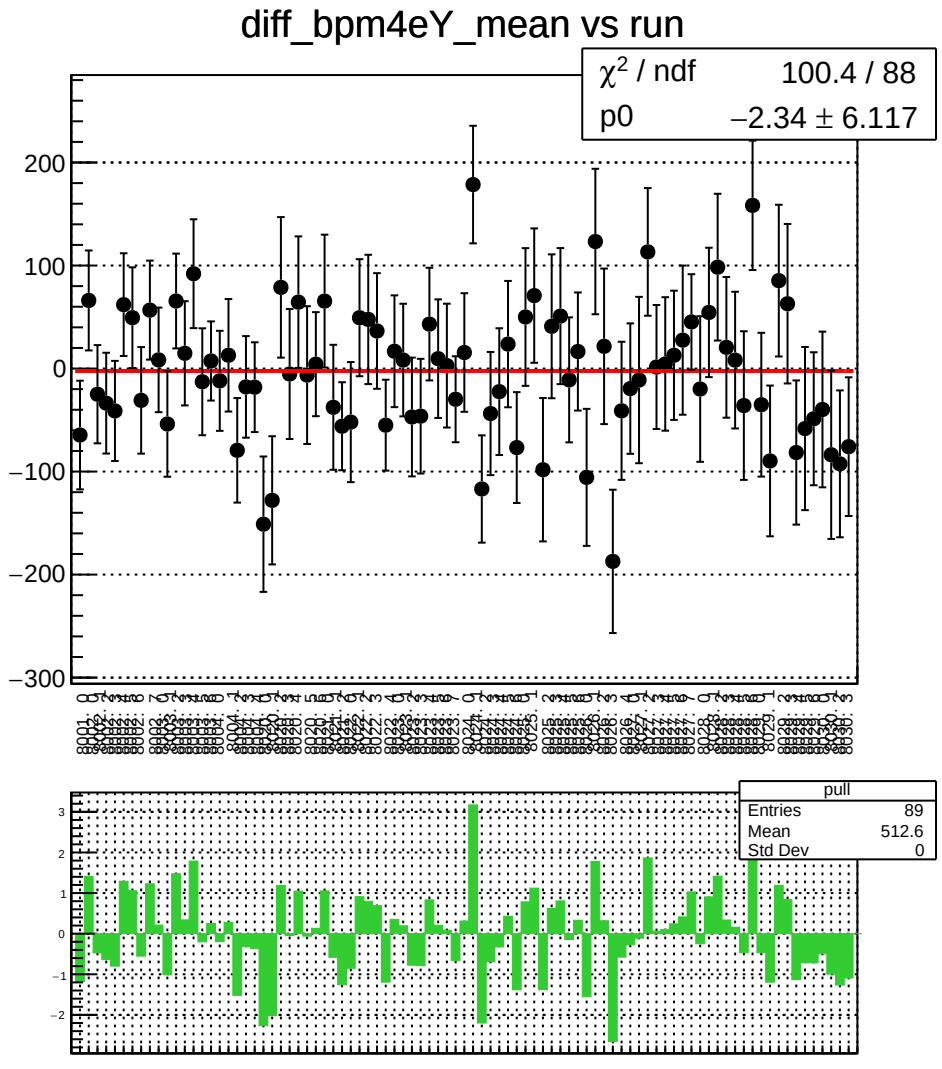

pull1D
Entries 89
Mean −0.002621
Std Dev 1.06
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

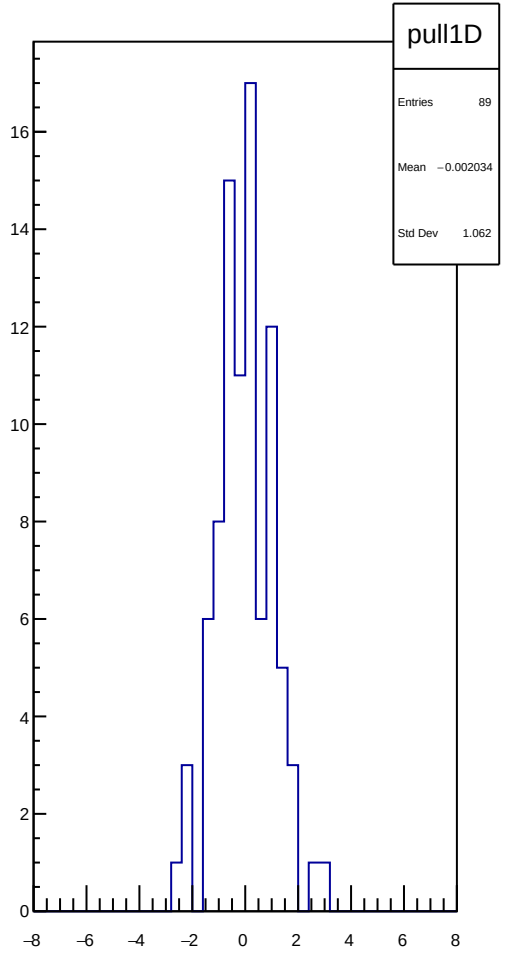

diff_bpm4aY_rms vs run
χ² / ndf 2.676e+04 / 88
p0 6104 ± 4.671
8500
8000
7500
7000
6500
6000
5500
5000

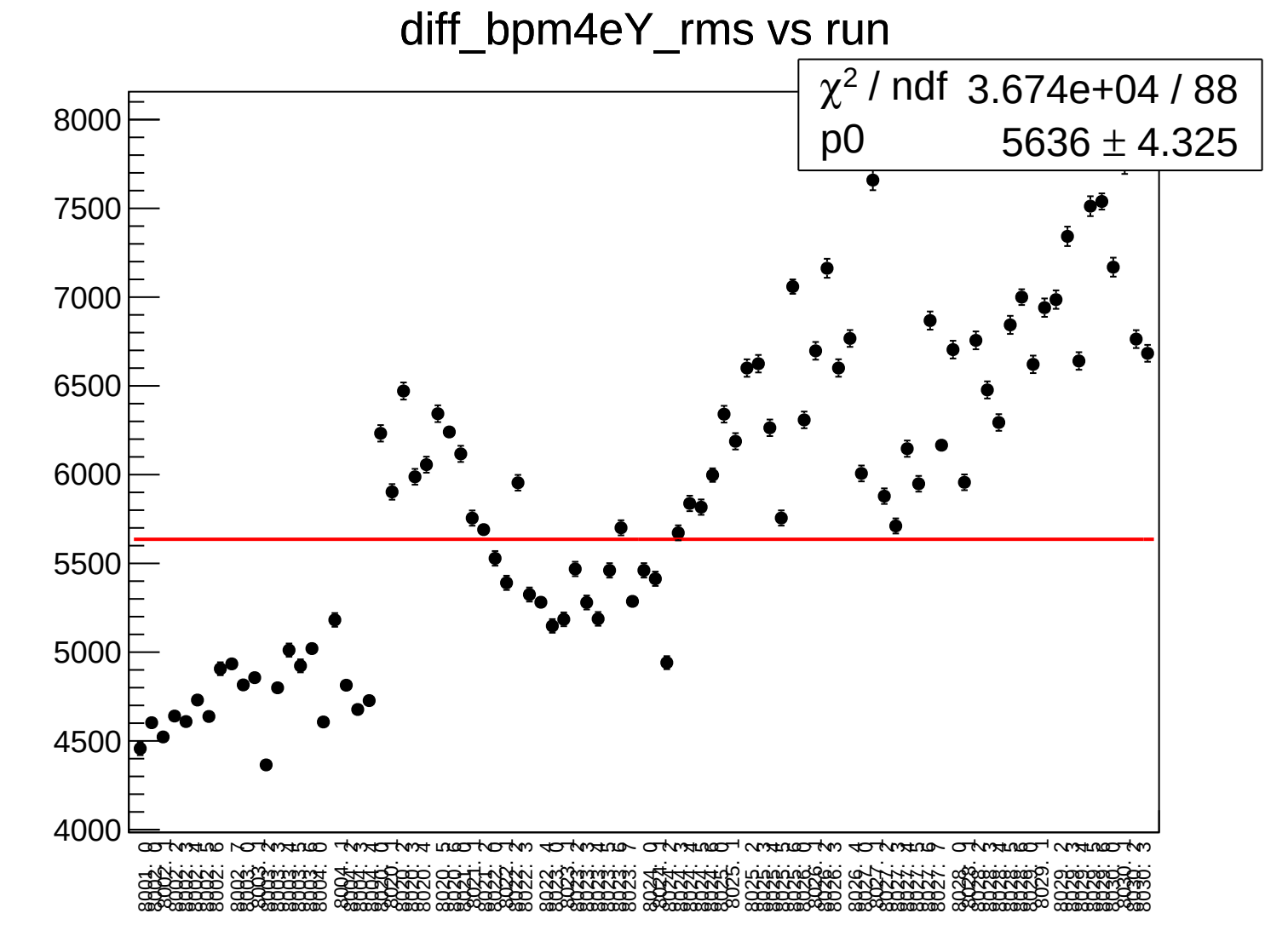

diff_bpm4eX_mean vs run
χ² / ndf 86.13 / 88
p0 7.111 ± 21.31
pull
Entries 89
Mean 183.3
Std Dev 0

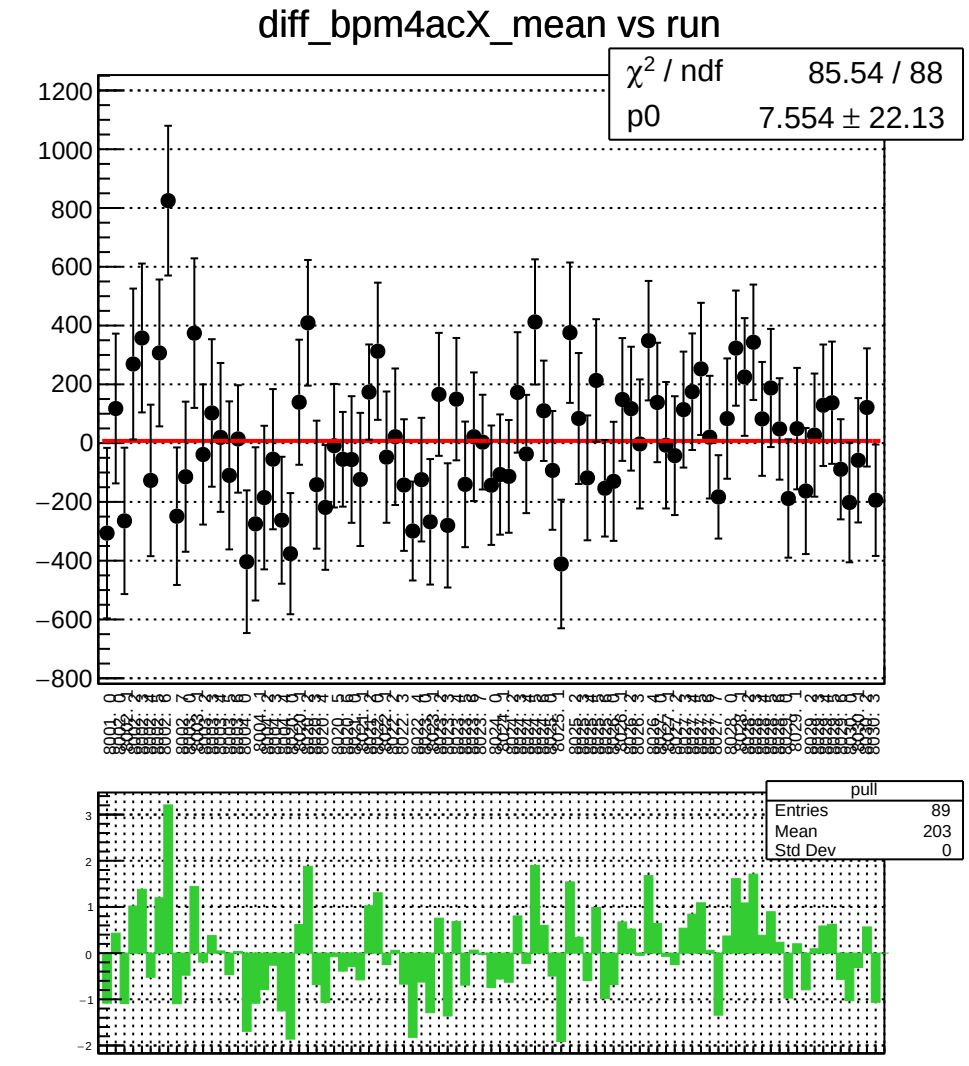

pull1D
Entries 89
Mean 0.01412
Std Dev 0.9836

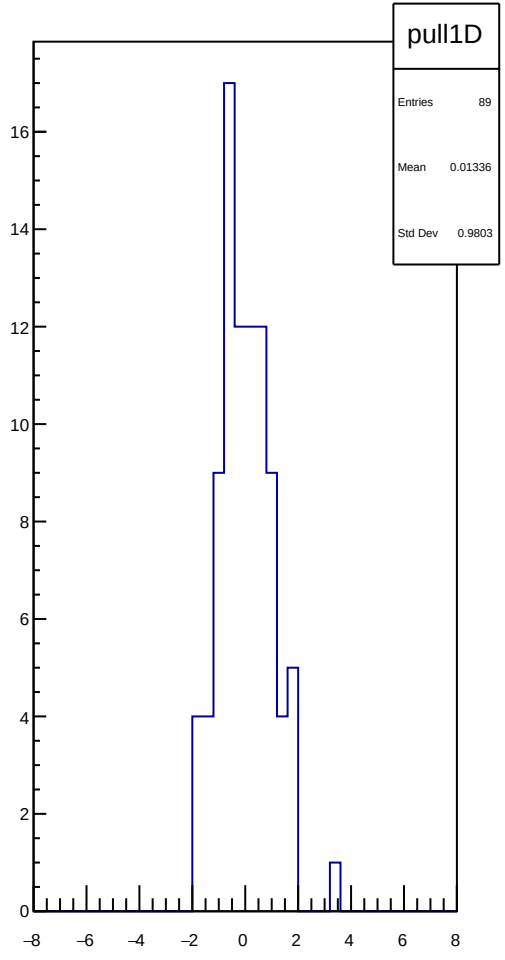

diff_bpm4eX_rms vs run
χ² / ndf 1.312e+04 / 88
p0 1.977e+04 ± 15.07
24000
23000
22000
21000
20000
19000
18000
17000

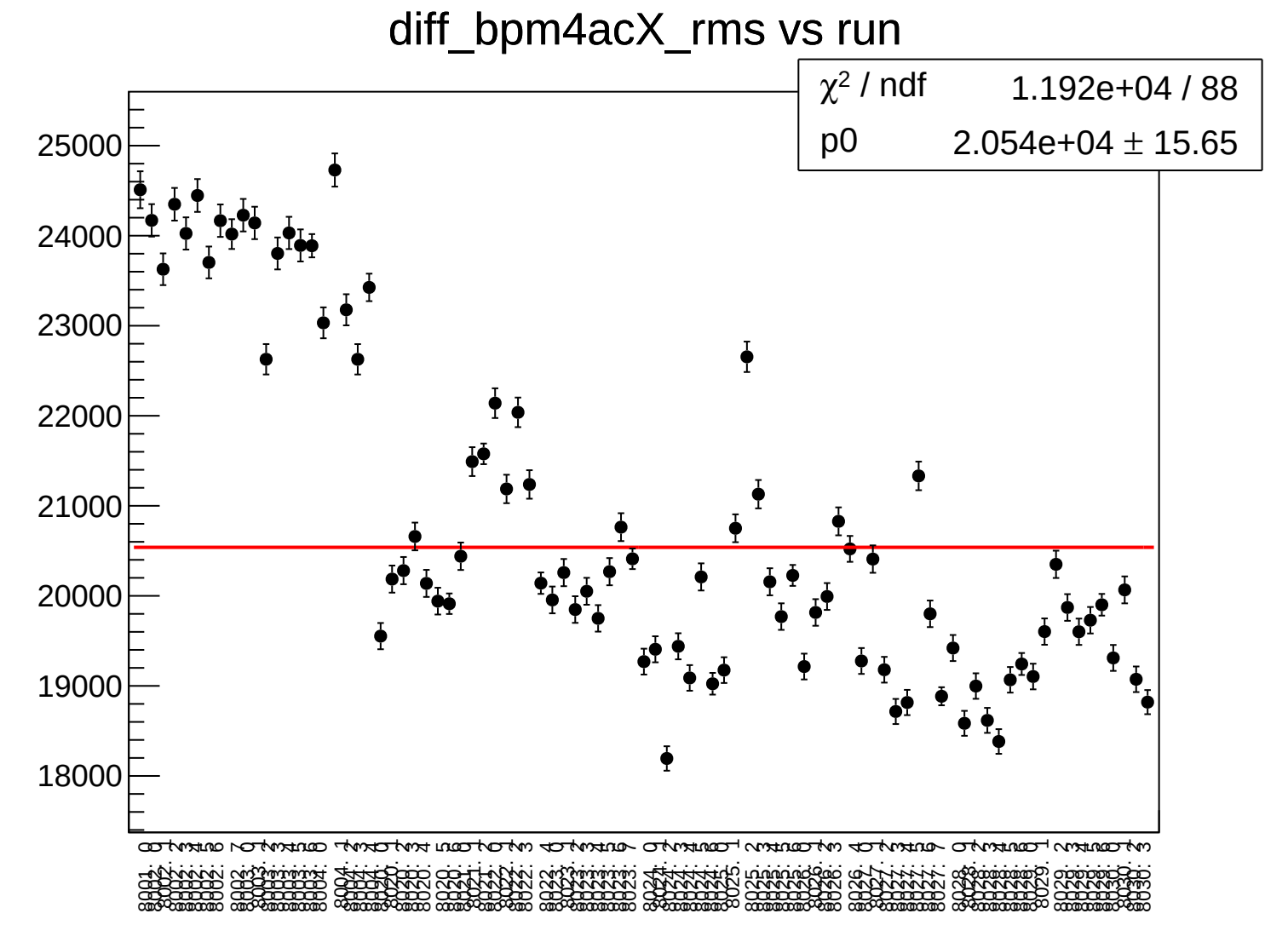

diff_bpm4eY_mean vs run
χ² / ndf 100.4 / 88
p0 −2.34 ± 6.117
200
100
0
−100
−200
−300
pull
Entries 89
Mean 512.6
Std Dev 0
3
2
1
0
−1
−2

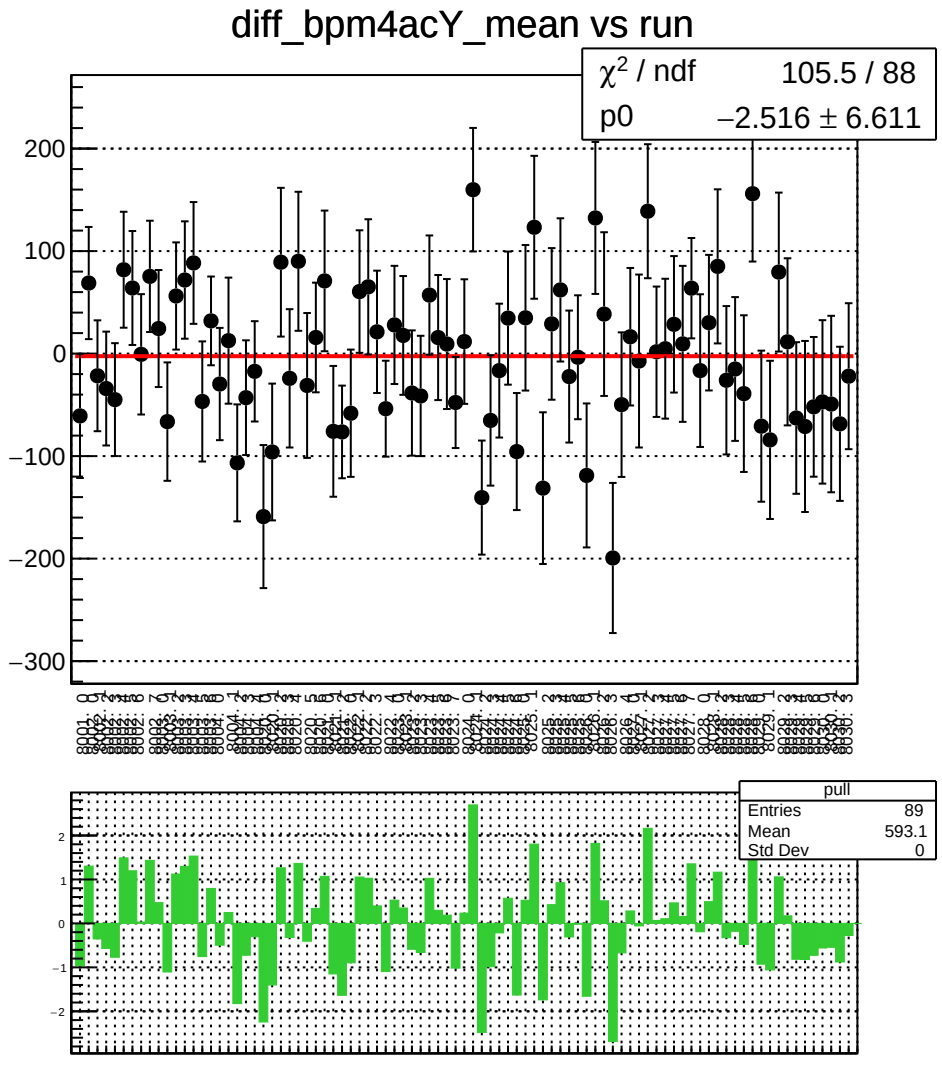

pull1D
Entries 89
Mean −0.002034
Std Dev 1.062
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

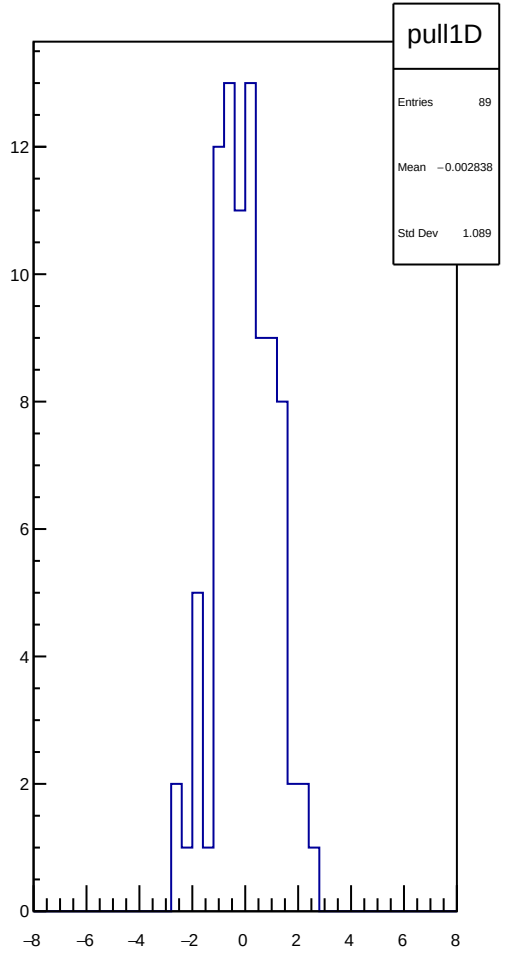

diff_bpm4eY_rms vs run
χ² / ndf 3.674e+04 / 88
p0 5636 ± 4.325
8000
7500
7000
6500
6000
5500
5000
4500
4000

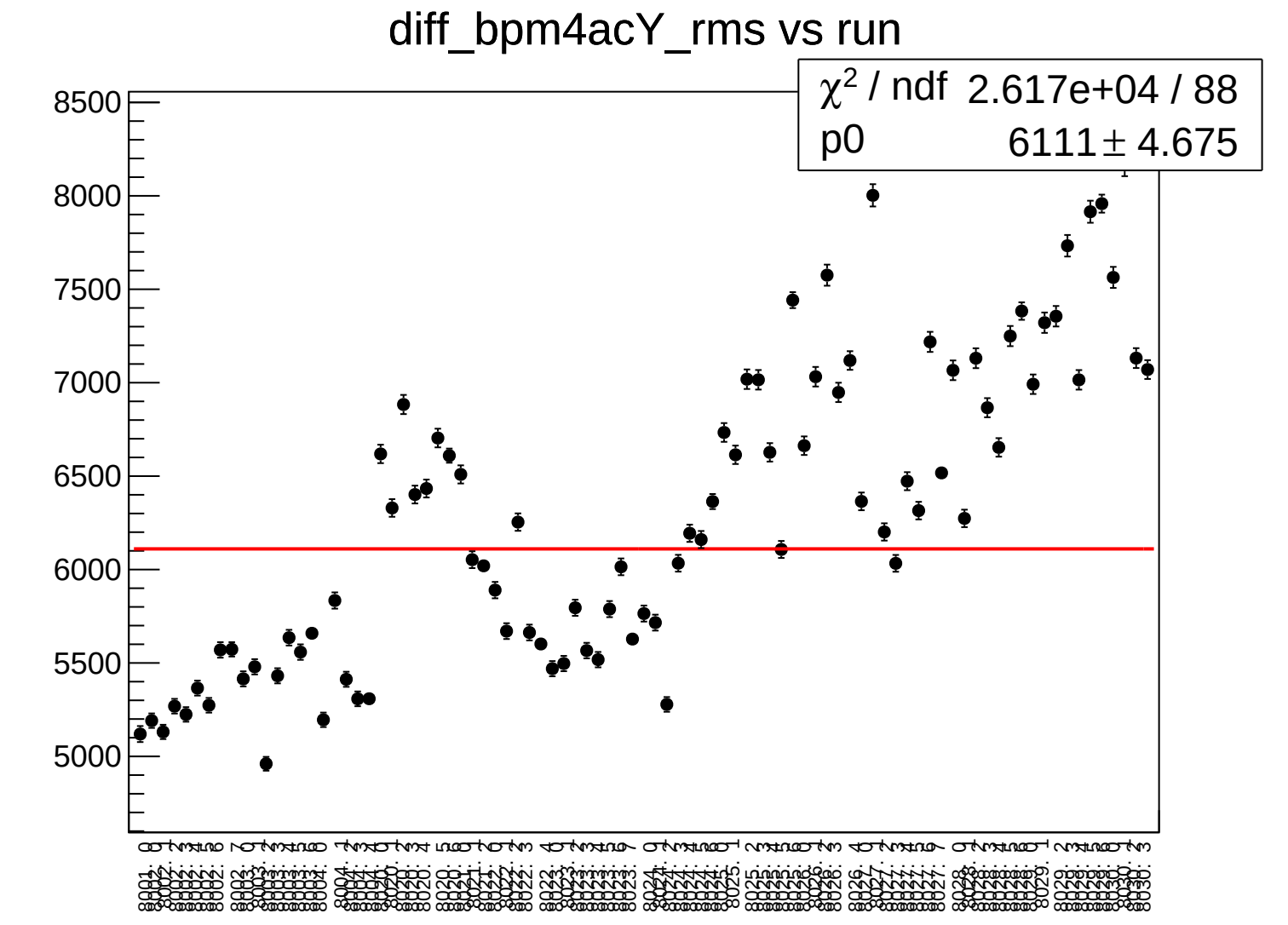

diff_bpm4acX_mean vs run
χ² / ndf 85.54 / 88
p0 7.554 ± 22.13
pull
Entries 89
Mean 203
Std Dev 0

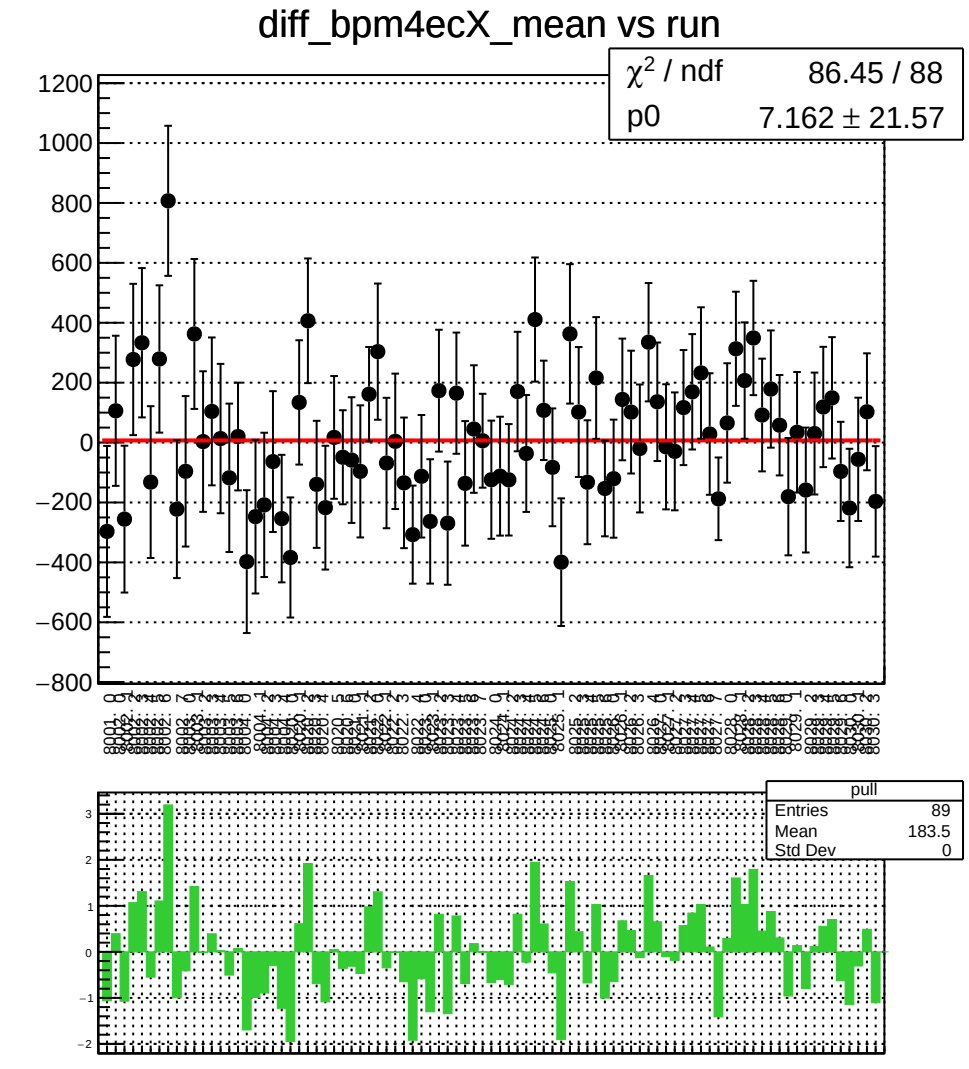

pull1D
Entries 89
Mean 0.01336
Std Dev 0.9803

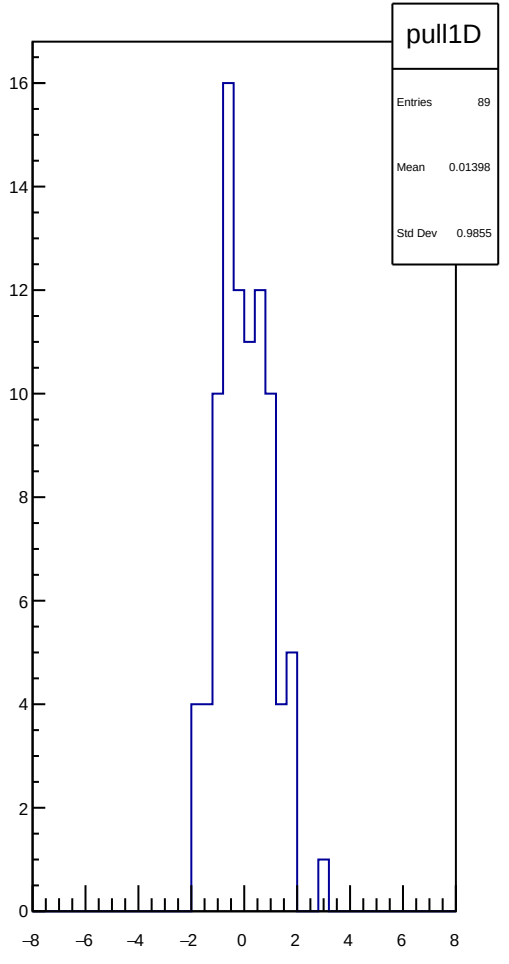

diff_bpm4acX_rms vs run
χ² / ndf 1.192e+04 / 88
p0 2.054e+04 ± 15.65
25000
24000
23000
22000
21000
20000
19000
18000

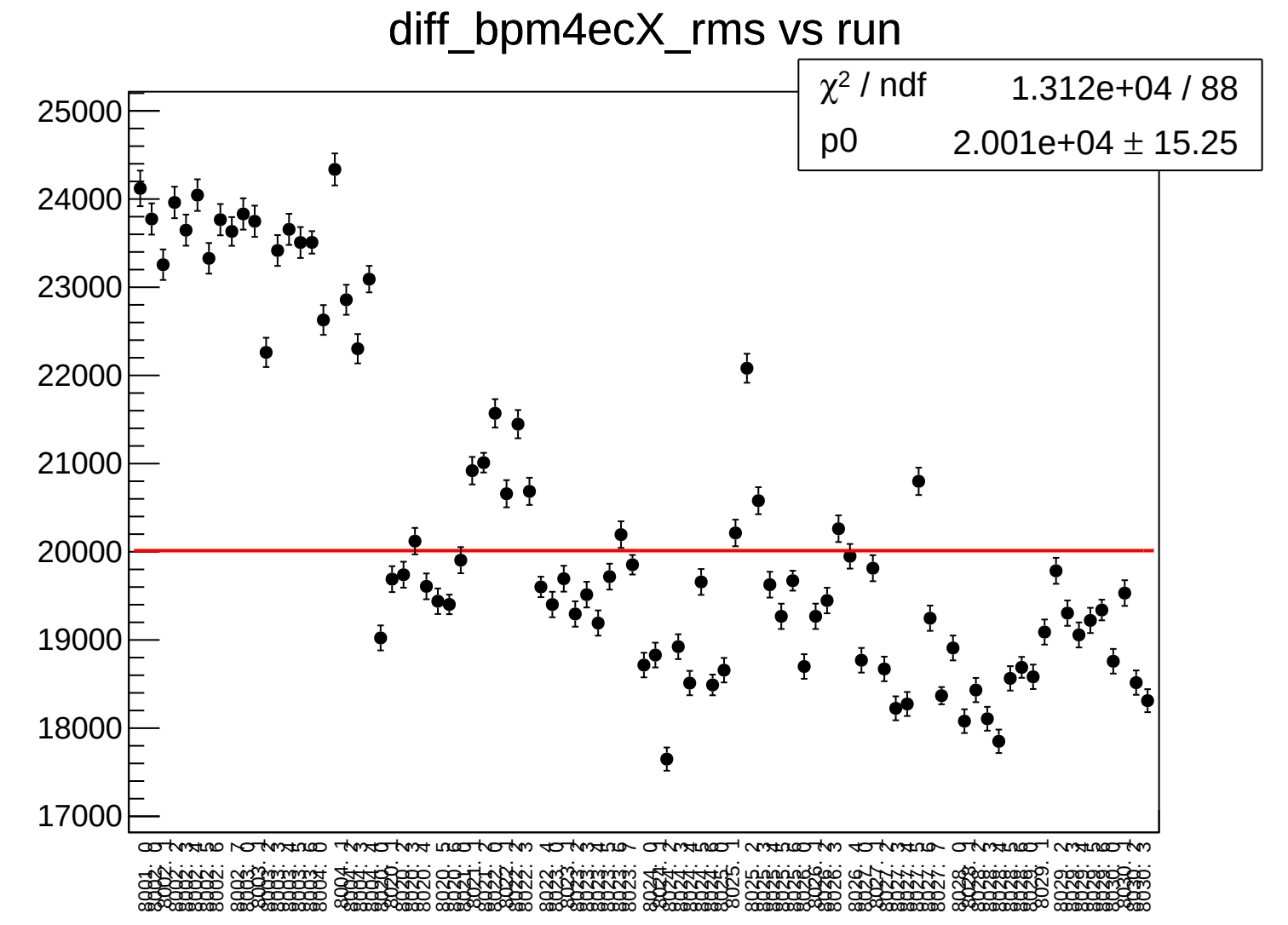

diff_bpm4acY_mean vs run
χ^2 / ndf 105.5 / 88
p0 −2.516 ± 6.611
200
100
0
−100
−200
−300
pull
Entries 89
Mean 593.1
Std Dev 0
2
1
0
−1
−2

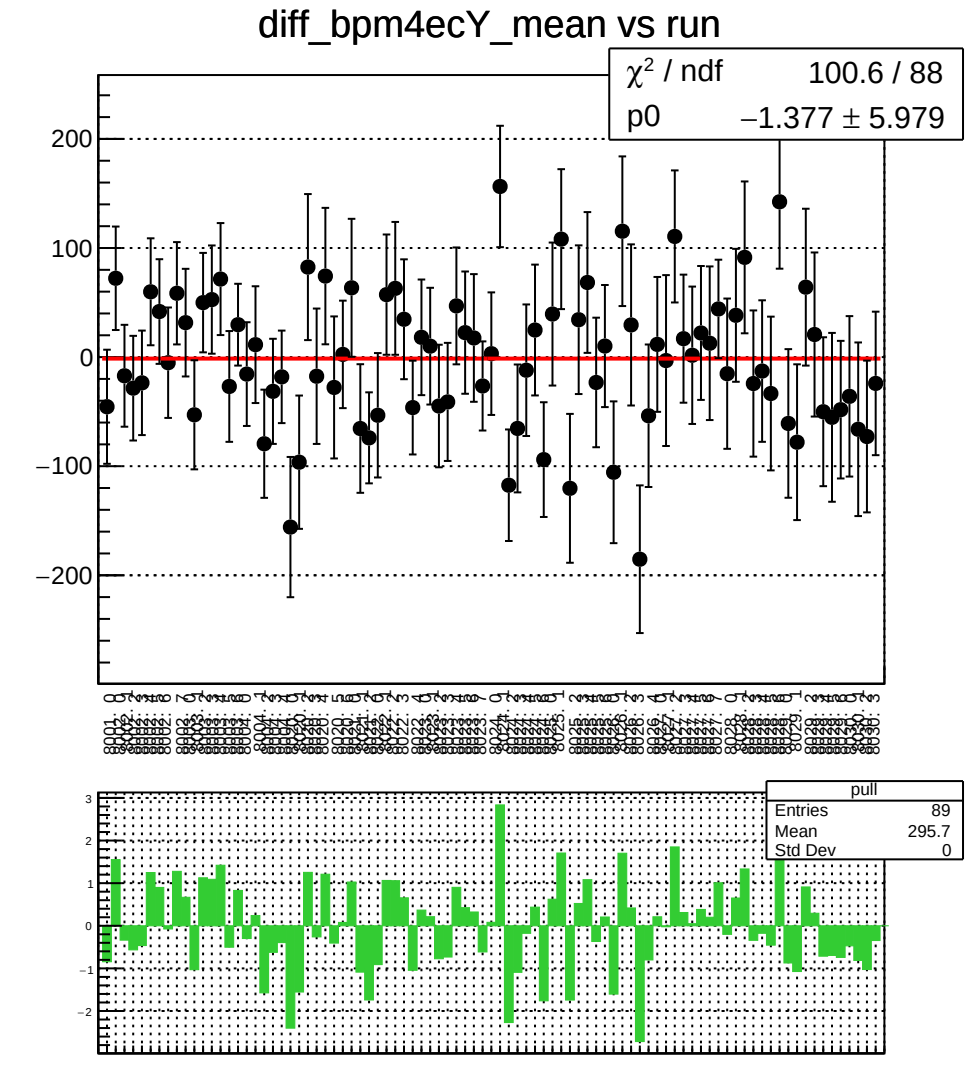

pull1D
Entries 89
Mean −0.002838
Std Dev 1.089
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

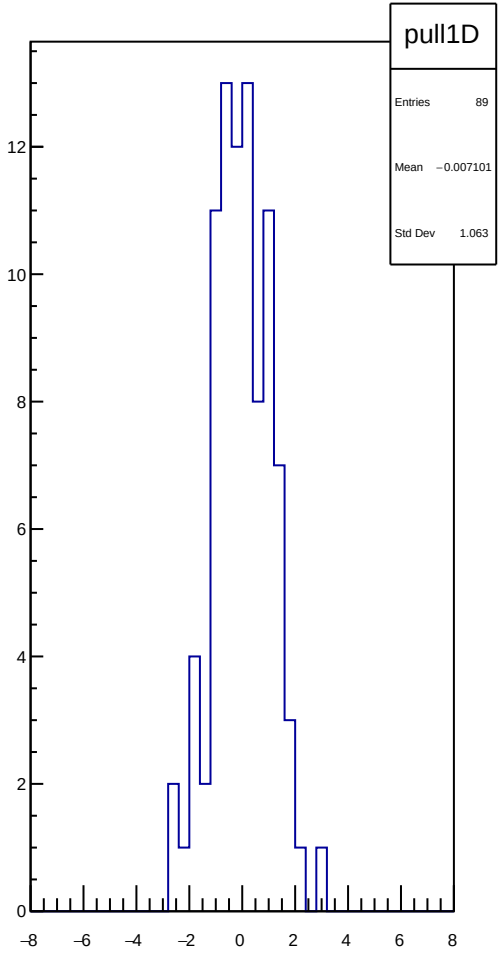

diff_bpm4acY_rms vs run
χ² / ndf 2.617e+04 / 88
p0 6111 ± 4.675
8500
8000
7500
7000
6500
6000
5500
5000

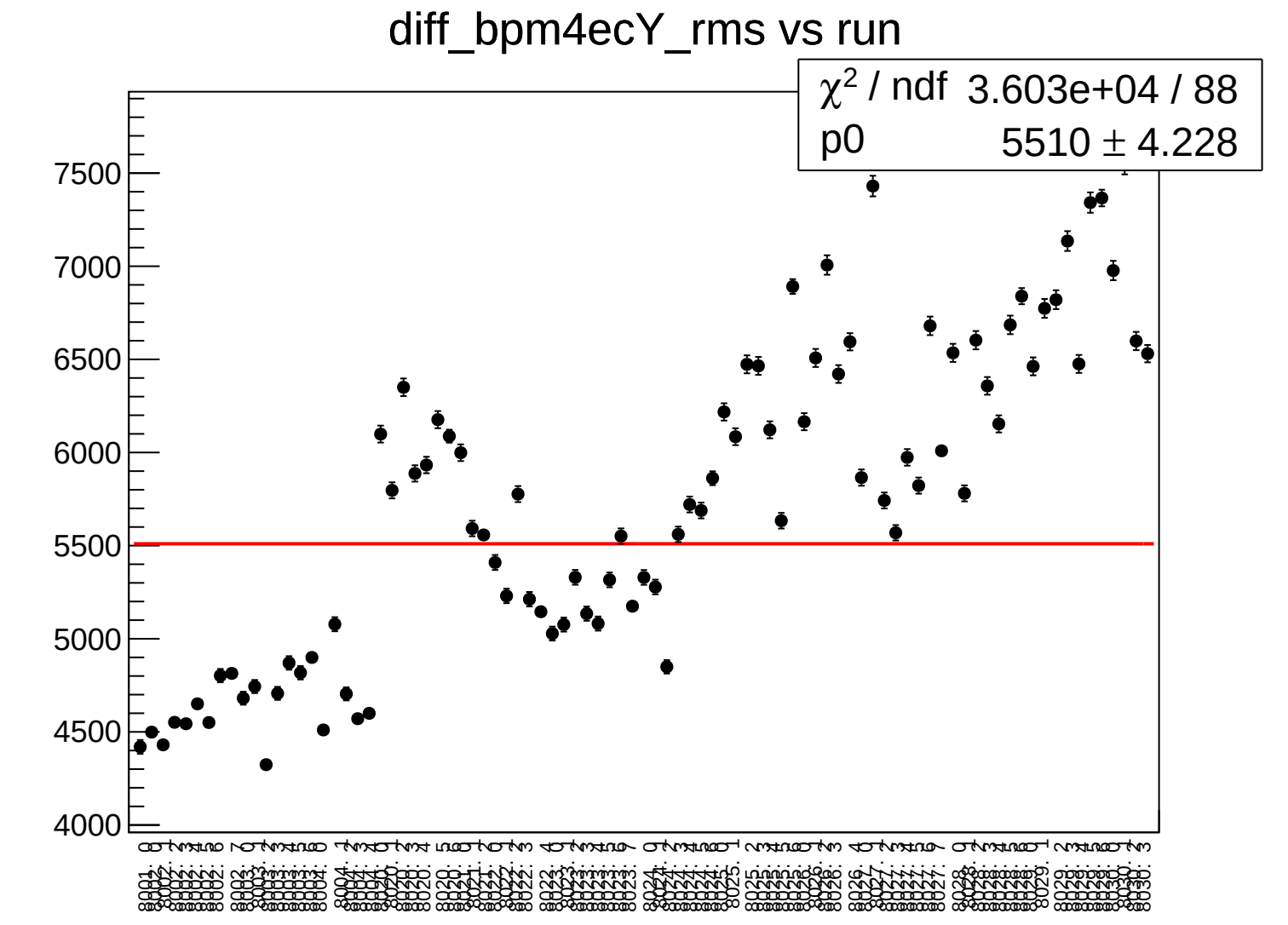

diff_bpm4ecX_mean vs run
χ² / ndf 86.45 / 88
p0 7.162 ± 21.57
pull
Entries 89
Mean 183.5
Std Dev 0

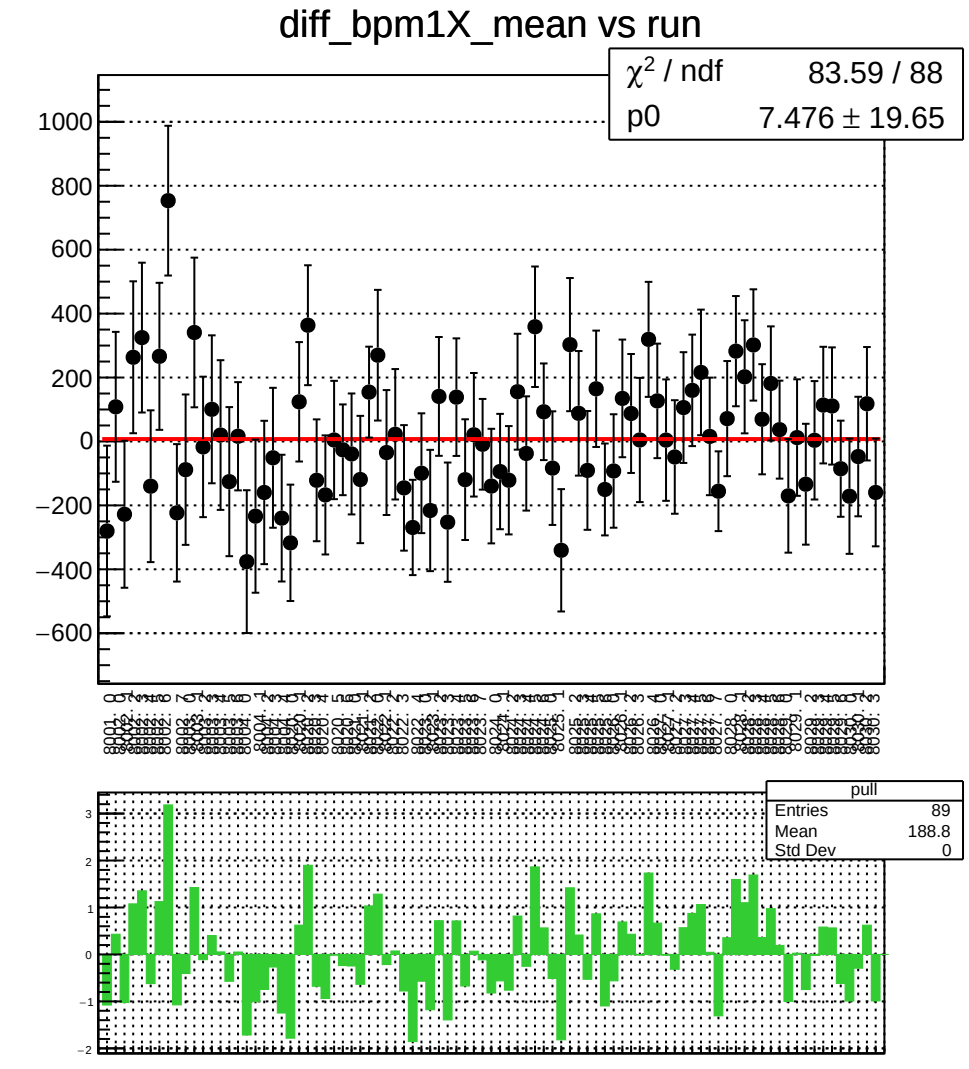

pull1D
Entries 89
Mean 0.01398
Std Dev 0.9855

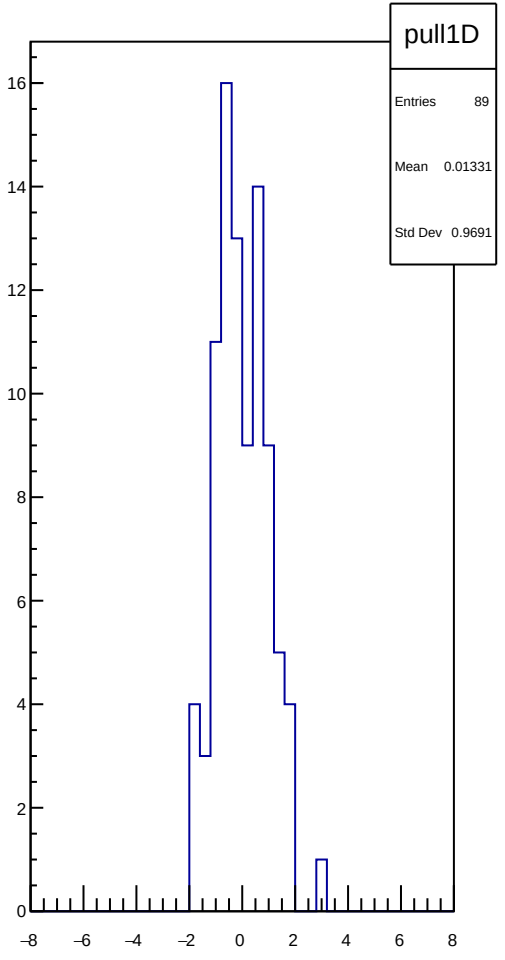

diff_bpm4ecX_rms vs run
χ² / ndf 1.312e+04 / 88
p0 2.001e+04 ± 15.25
25000
24000
23000
22000
21000
20000
19000
18000
17000

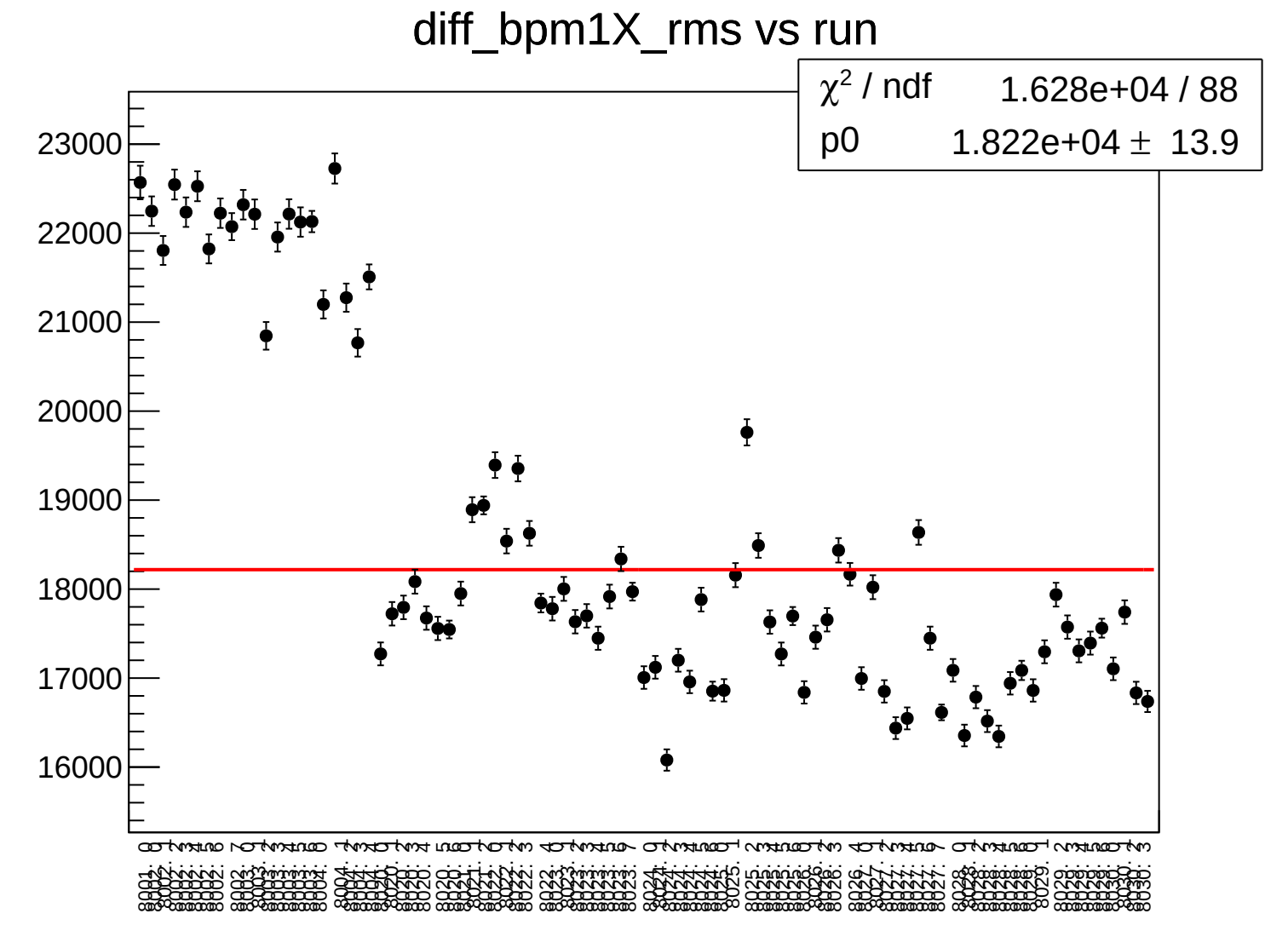

diff_bpm4ecY_mean vs run
χ² / ndf 100.6 / 88
p0 −1.377 ± 5.979
200
100
0
−100
−200
pull
Entries 89
Mean 295.7
Std Dev 0
3
2
1
0
−1
−2

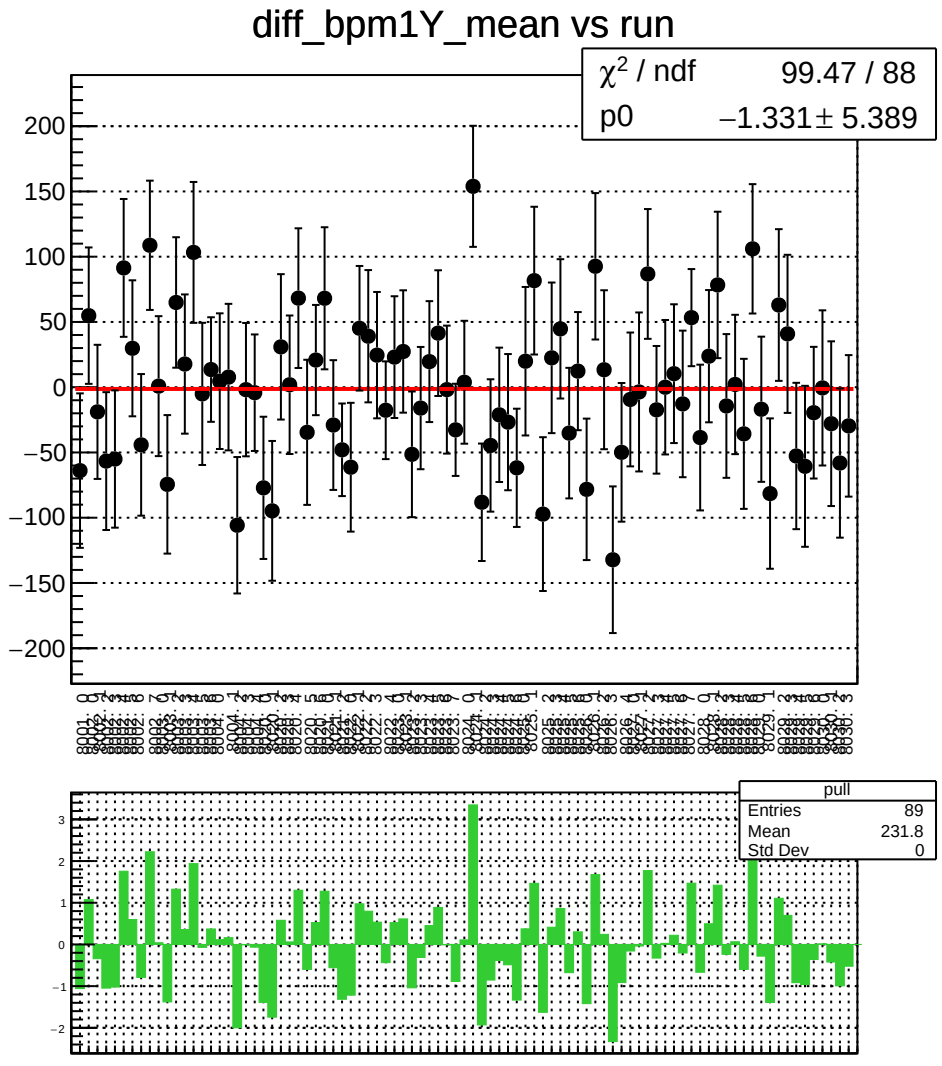

pull1D
Entries 89
Mean −0.007101
Std Dev 1.063
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

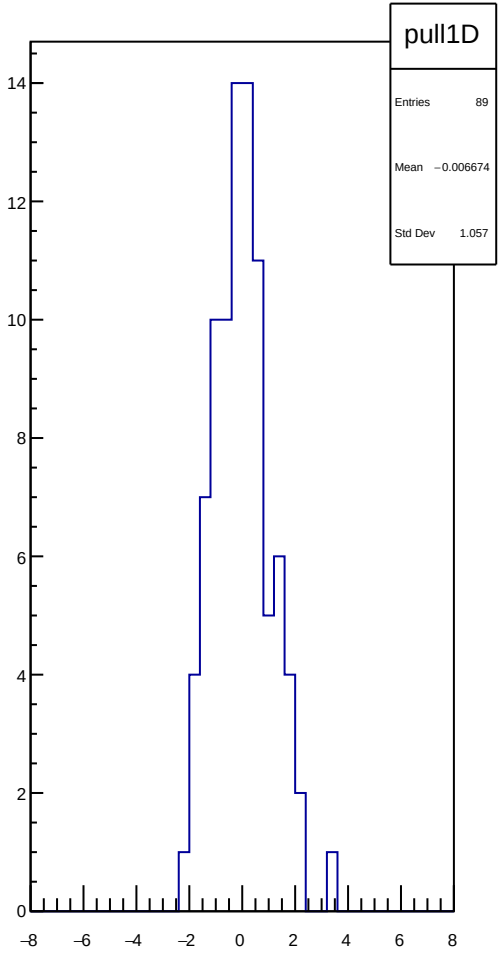

diff_bpm4ecY_rms vs run
χ² / ndf 3.603e+04 / 88
p0 5510 ± 4.228
7500
7000
6500
6000
5500
5000
4500
4000

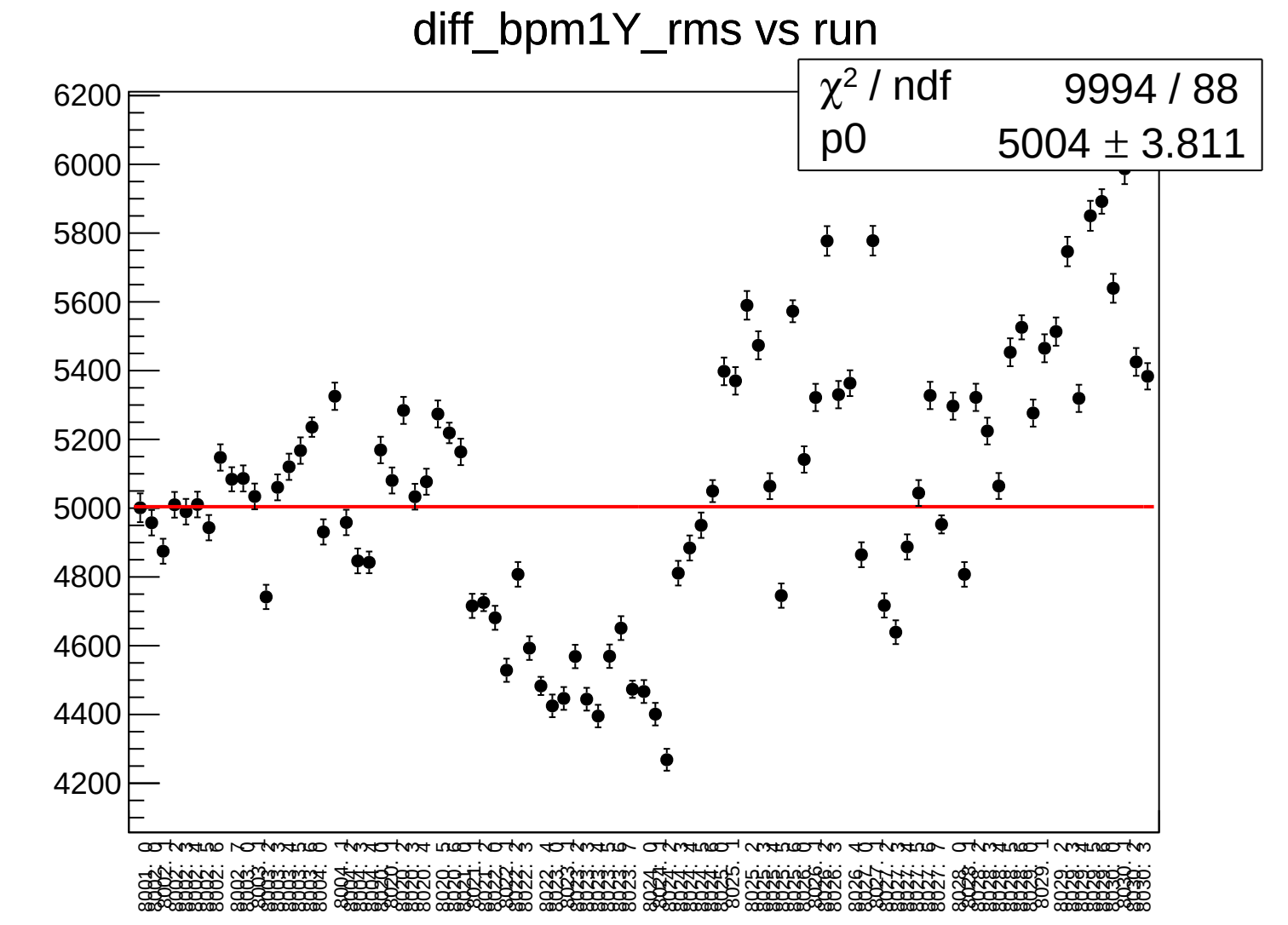

diff_bpm1X_mean vs run
χ^2 / ndf 83.59 / 88
p0 7.476 ± 19.65
1000
800
600
400
200
0
−200
−400
−600
pull
Entries 89
Mean 188.8
Std Dev 0
3
2
1
0
−1
−2

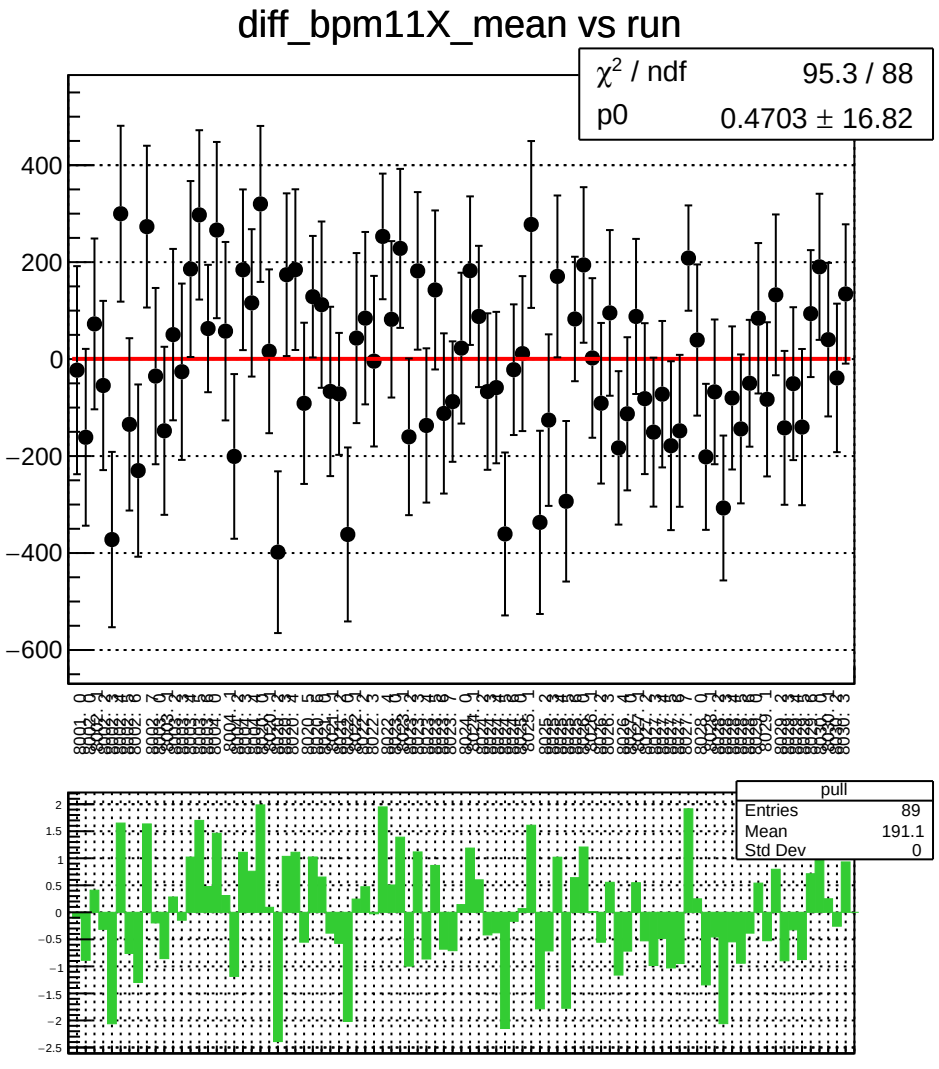

pull1D
Entries 89
Mean 0.01331
Std Dev 0.9691
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

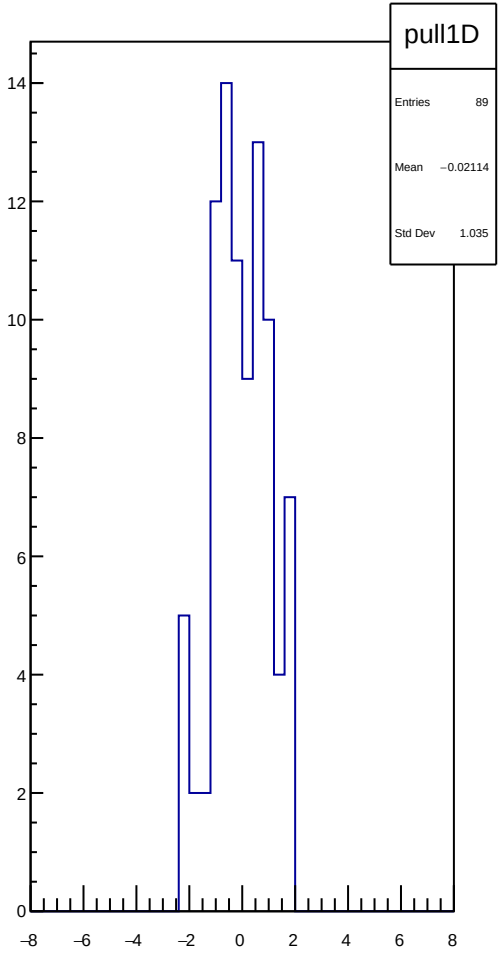

diff_bpm1X_rms vs run
χ² / ndf 1.628e+04 / 88
p0 1.822e+04 ± 13.9
23000
22000
21000
20000
19000
18000
17000
16000

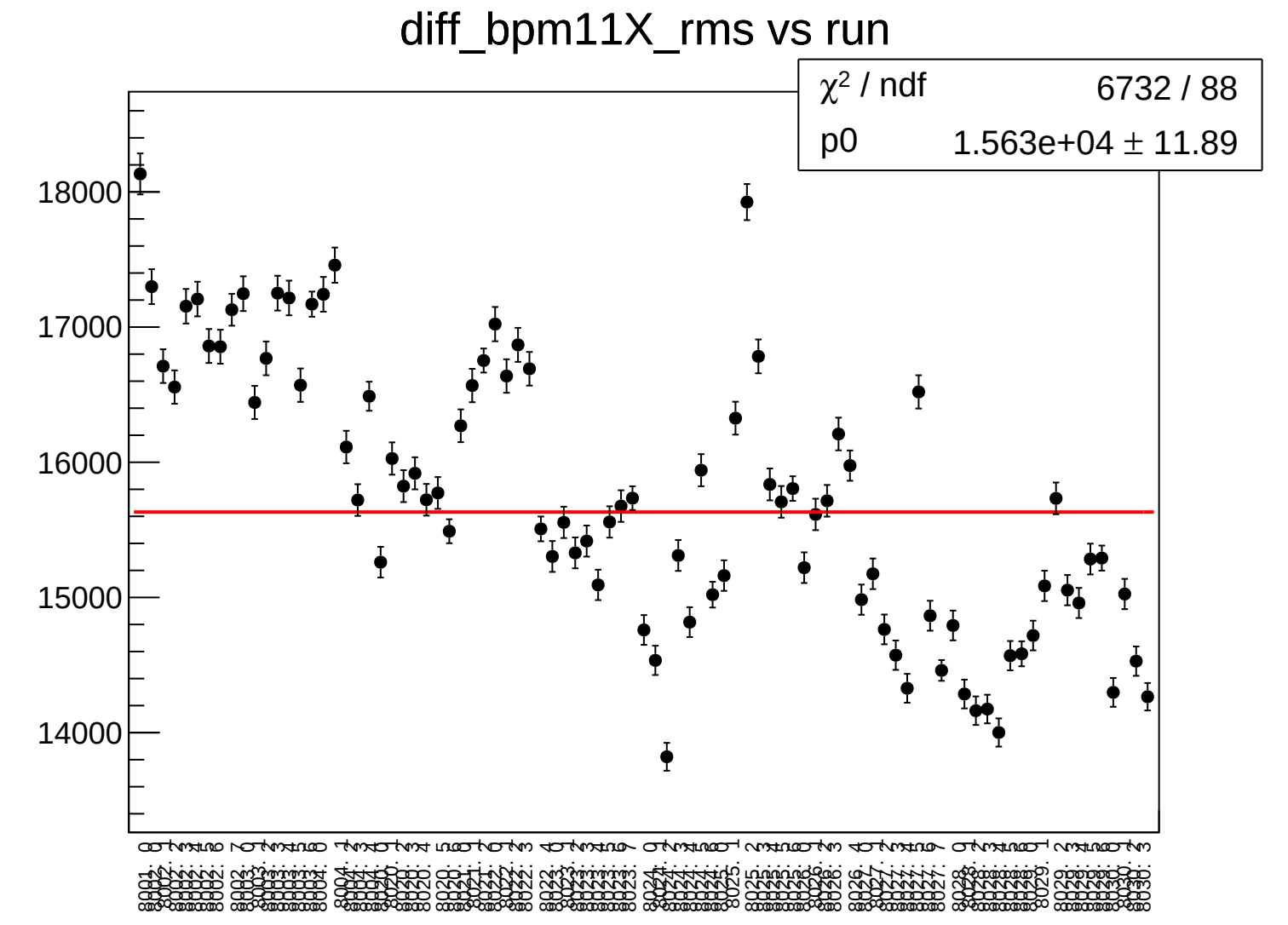

diff_bpm1Y_mean vs run
χ² / ndf 99.47 / 88
p0 −1.331 ± 5.389
pull
Entries 89
Mean 231.8
Std Dev 0

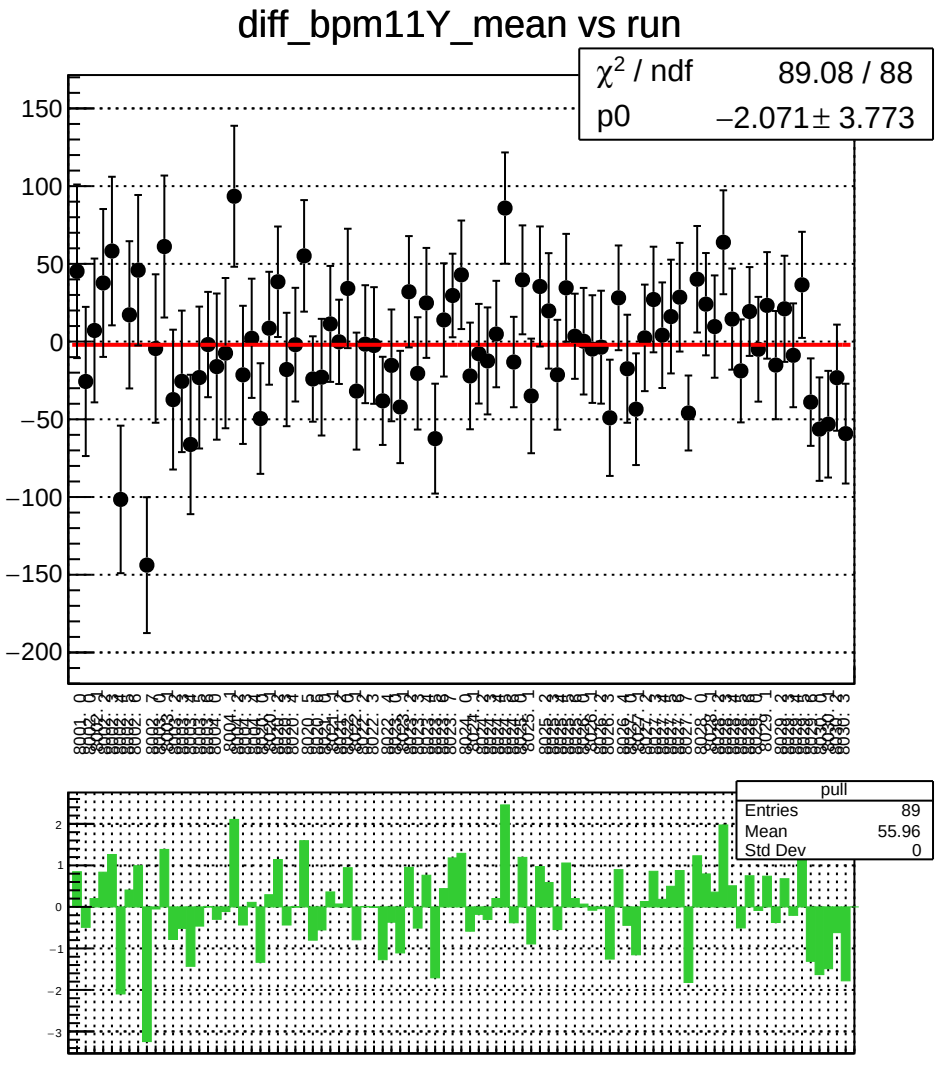

pull1D
Entries 89
Mean −0.006674
Std Dev 1.057

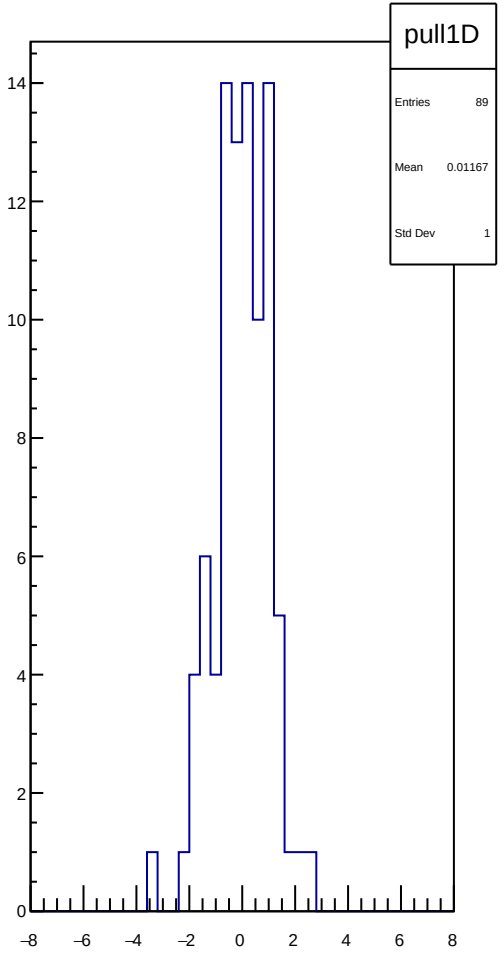

diff_bpm1Y_rms vs run
χ² / ndf 9994 / 88
p0 5004 ± 3.811
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200

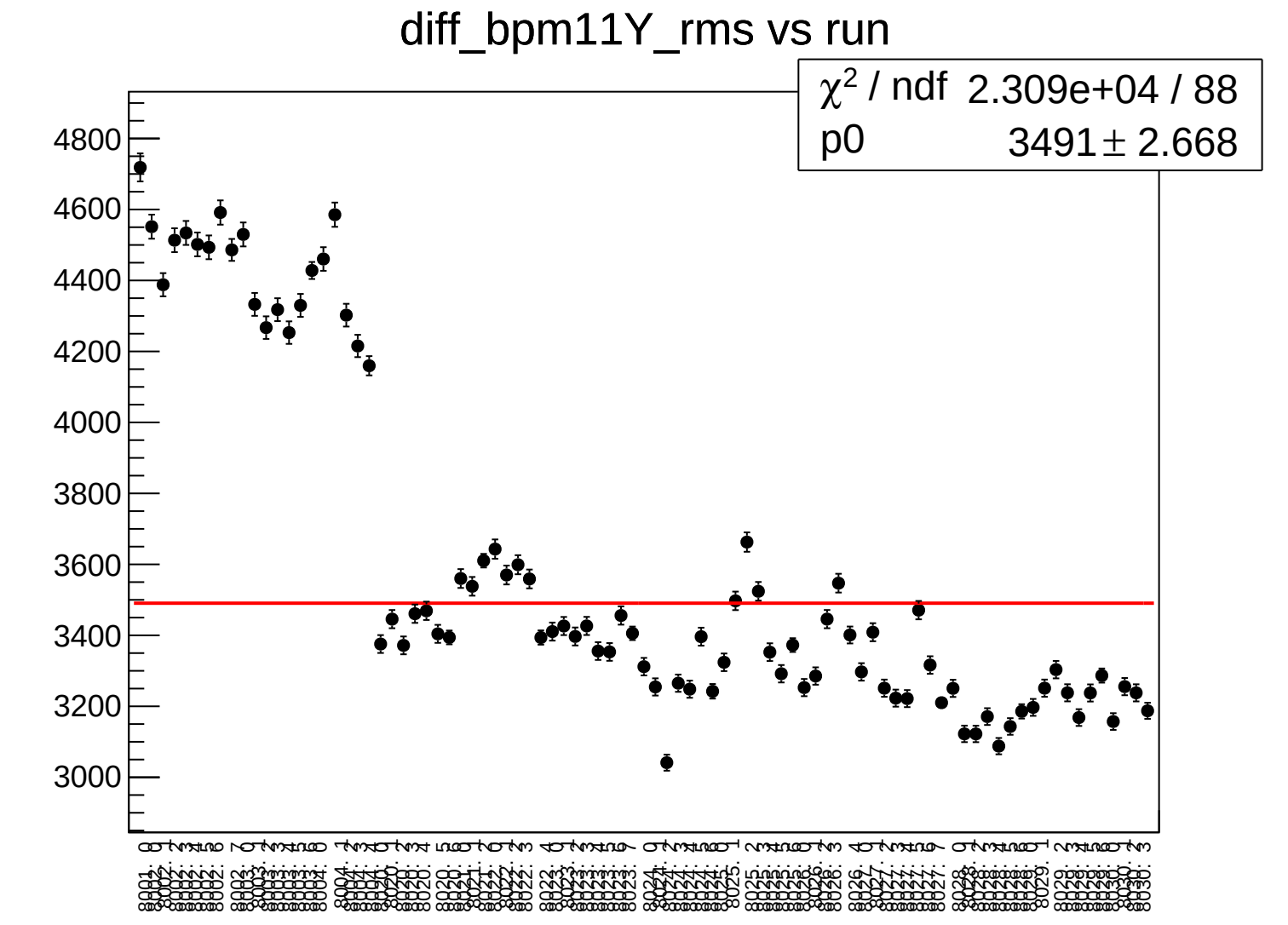

diff_bpm11X_mean vs run
χ² / ndf 95.3 / 88
p0 0.4703 ± 16.82
400
200
0
−200
−400
−600
pull
Entries 89
Mean 191.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

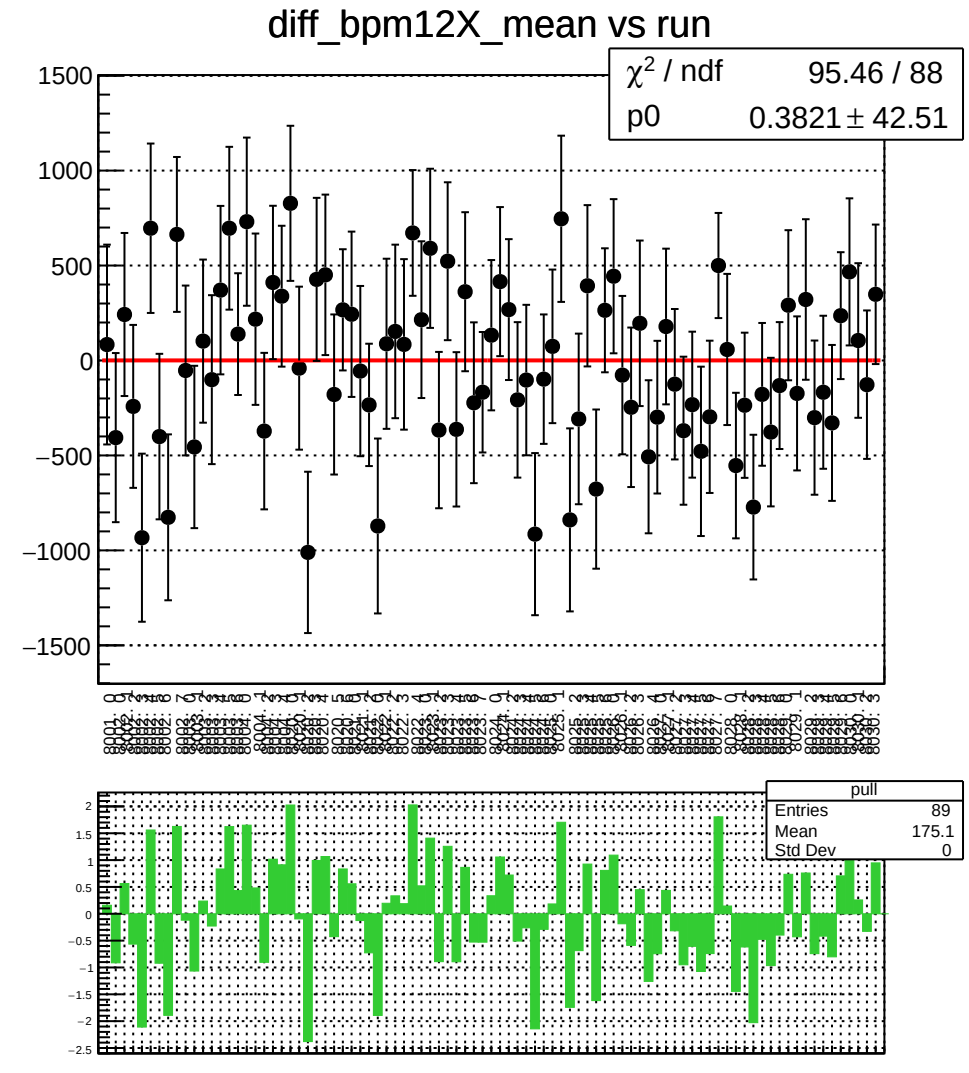

pull1D
Entries 89
Mean −0.02114
Std Dev 1.035
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

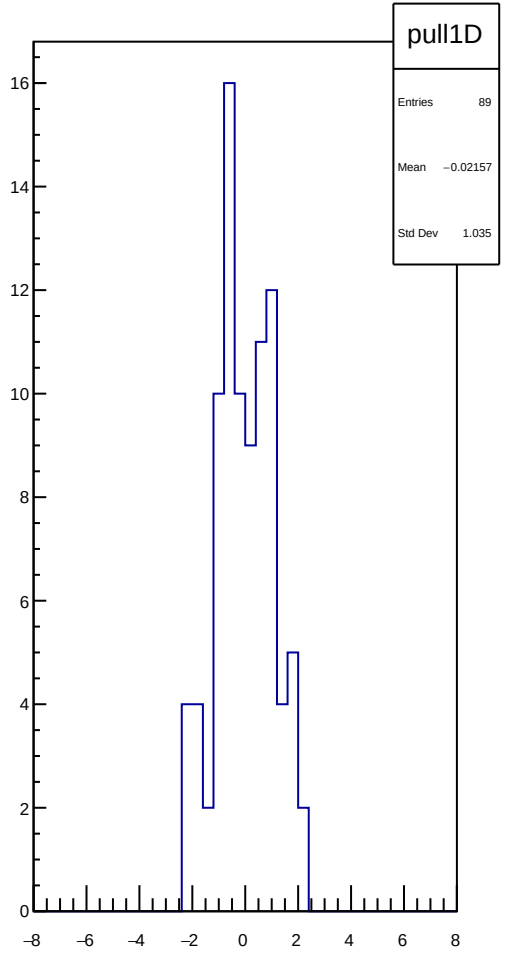

diff_bpm11X_rms vs run
χ² / ndf 6732 / 88
p0 1.563e+04 ± 11.89
18000
17000
16000
15000
14000

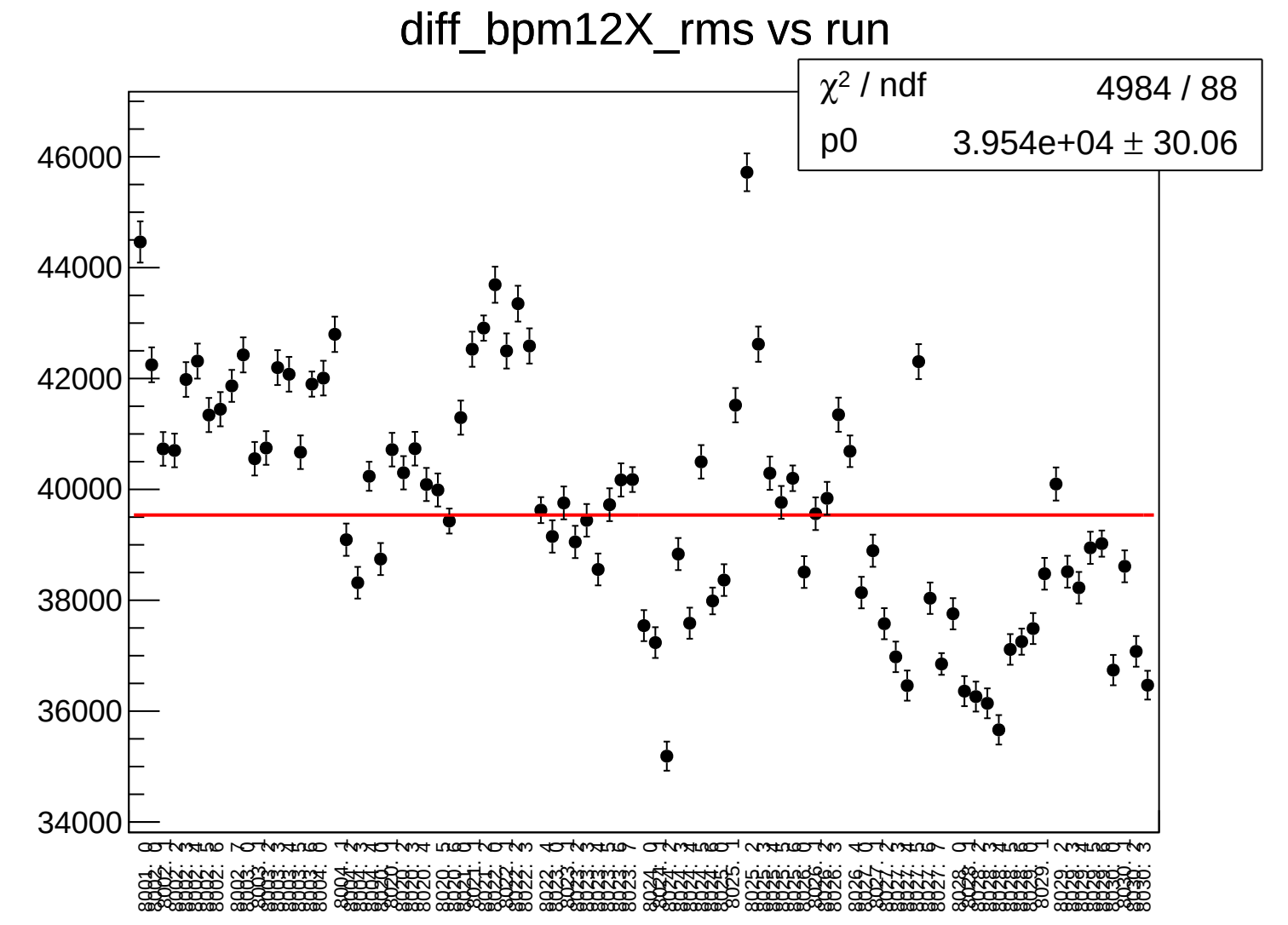

diff_bpm11Y_mean vs run
χ² / ndf 89.08 / 88
p0 −2.071± 3.773
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean 55.96
Std Dev 0
2
1
0
−1
−2
−3

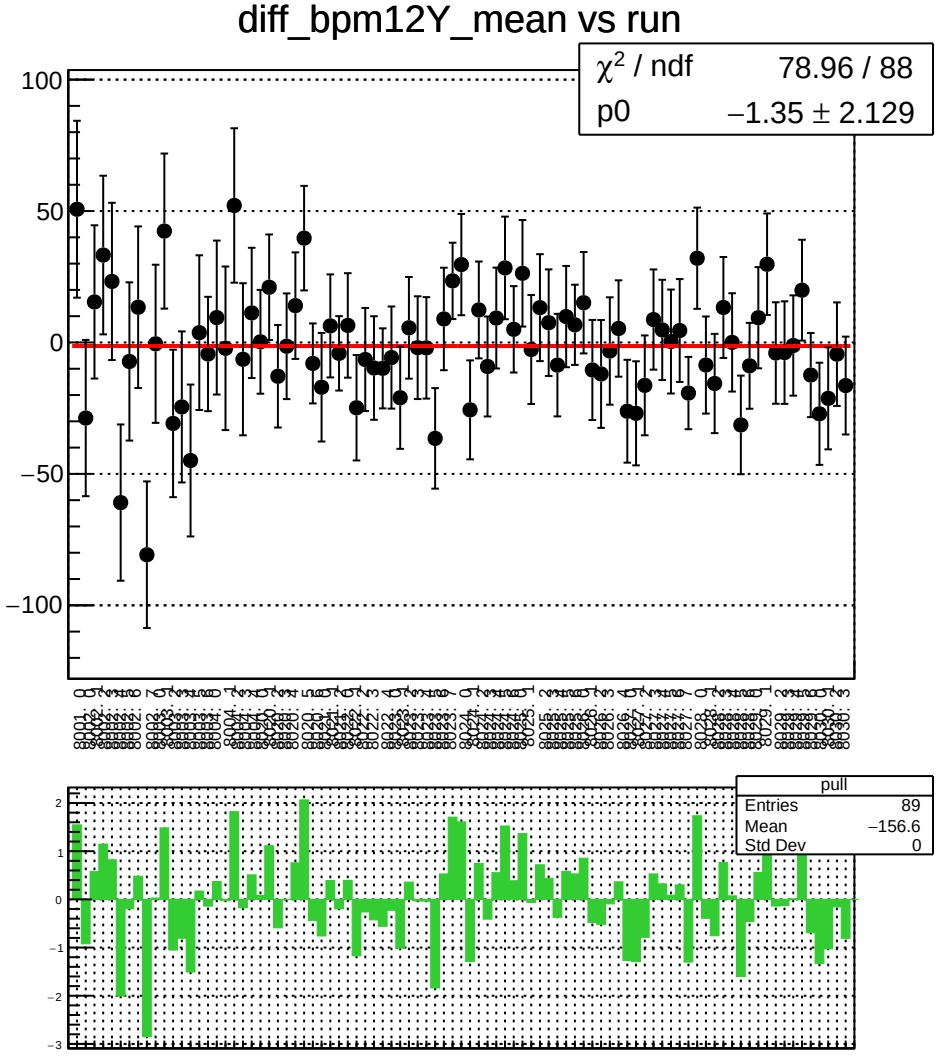

pull1D
Entries 89
Mean 0.01167
Std Dev 1
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

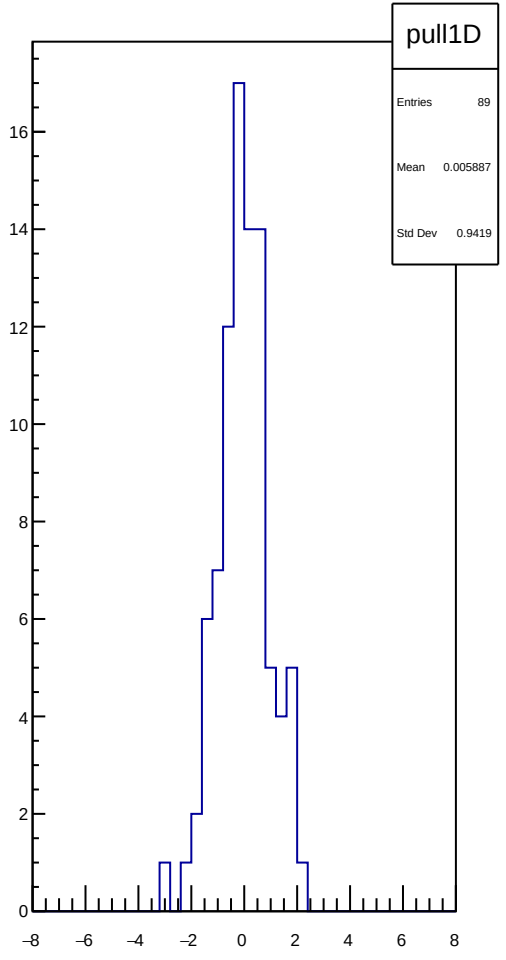

diff_bpm11Y_rms vs run
χ² / ndf 2.309e+04 / 88
p0 3491 ± 2.668
4800
4600
4400
4200
4000
3800
3600
3400
3200
3000

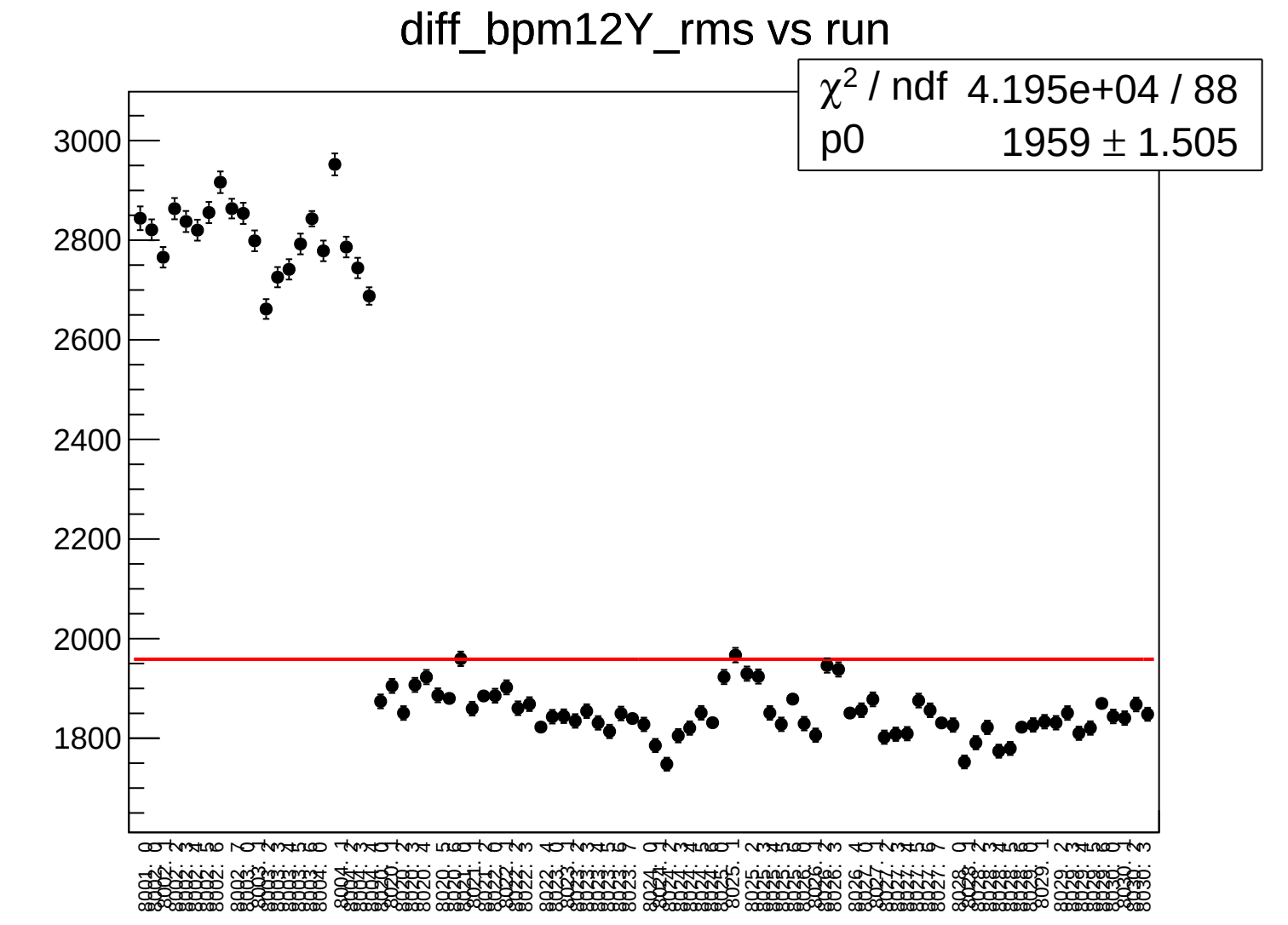

diff_bpm12X_mean vs run
χ² / ndf 95.46 / 88
p0 0.3821 ± 42.51
pull
Entries 89
Mean 175.1
Std Dev 0

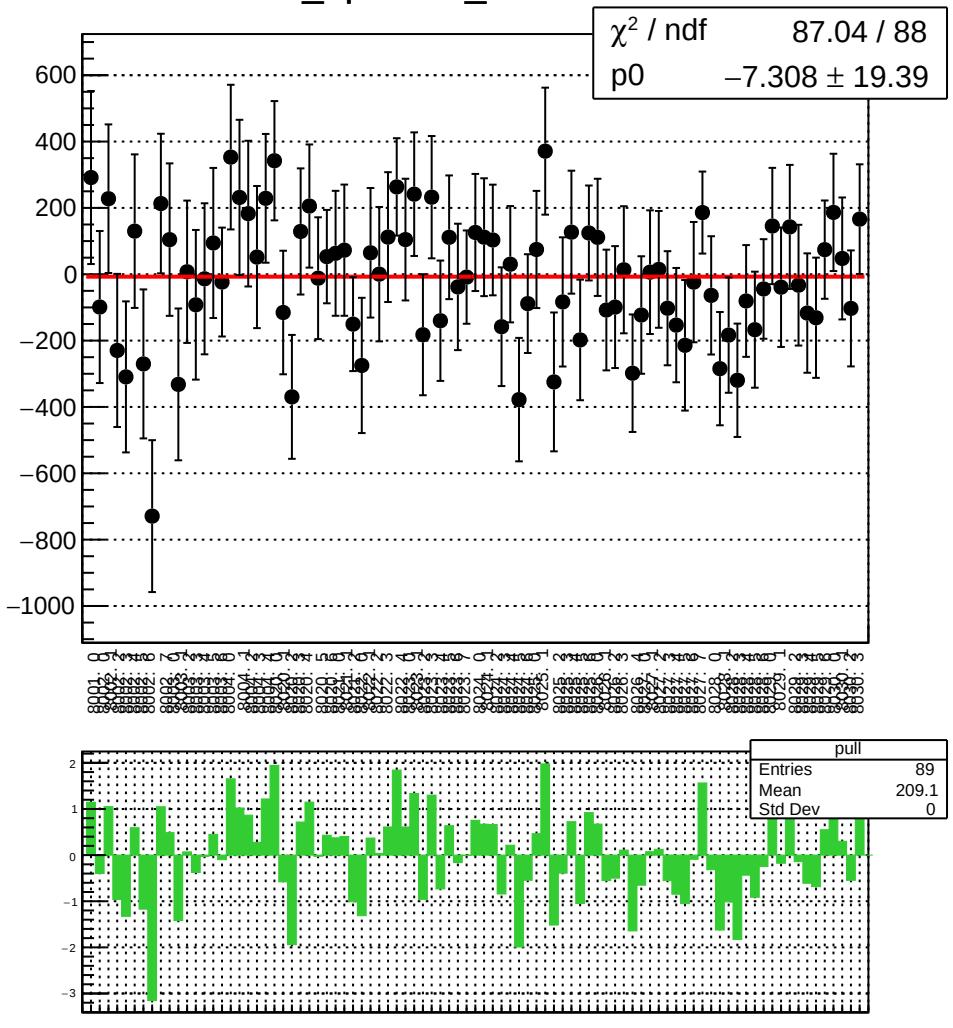

pull1D
Entries 89
Mean −0.02157
Std Dev 1.035

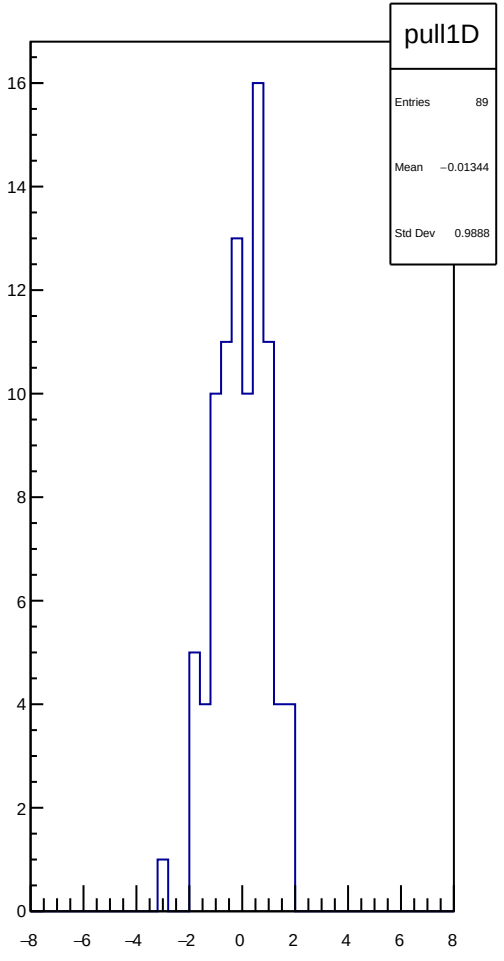

diff_bpm12X_rms vs run
χ² / ndf 4984 / 88
p0 3.954e+04 ± 30.06
46000
44000
42000
40000
38000
36000
34000

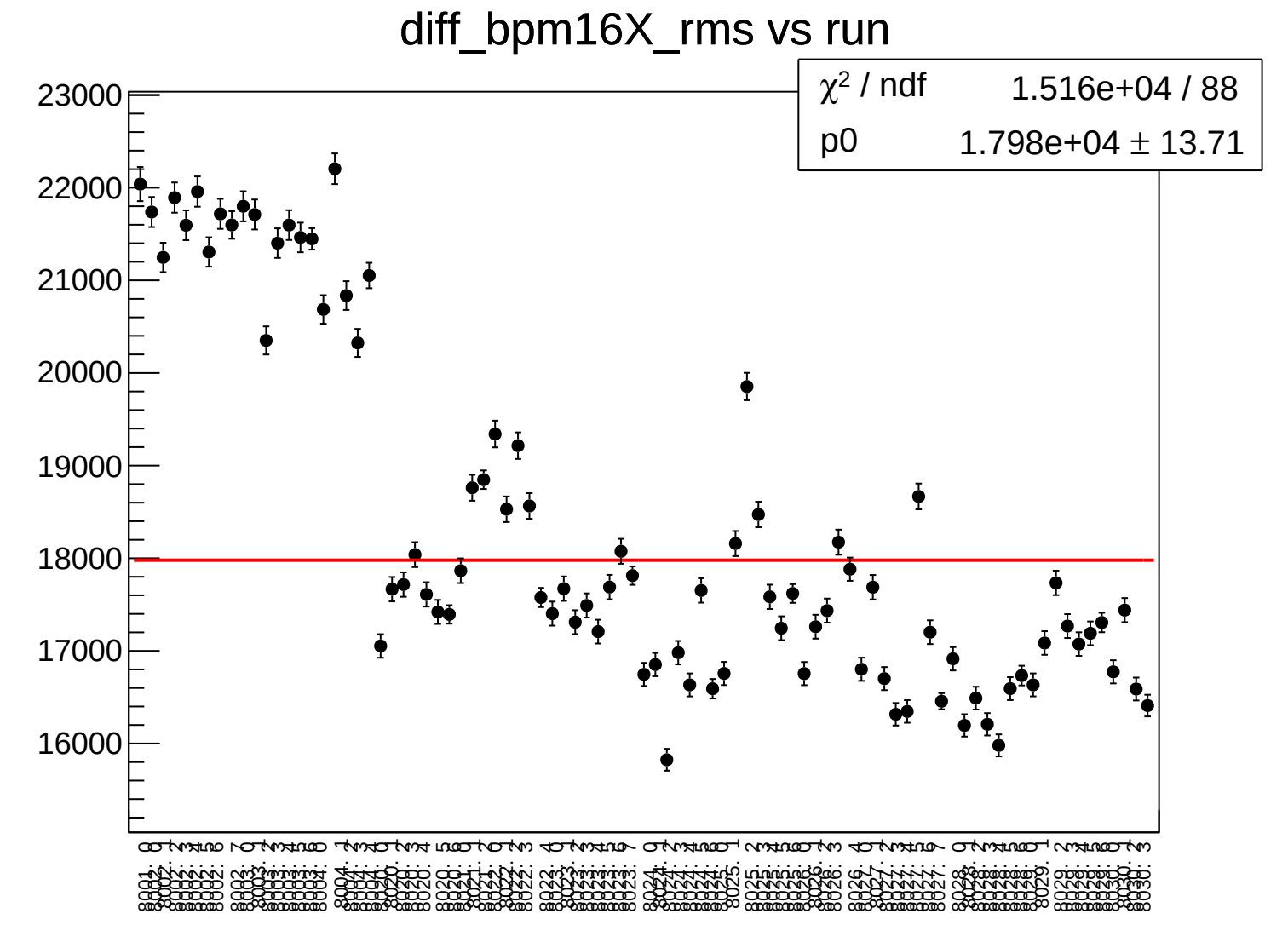

diff_bpm12Y_mean vs run
χ^2 / ndf 78.96 / 88
p0 −1.35 ± 2.129
100
50
0
−50
−100
pull
Entries 89
Mean −156.6
Std Dev 0
2
1
0
−1
−2
−3

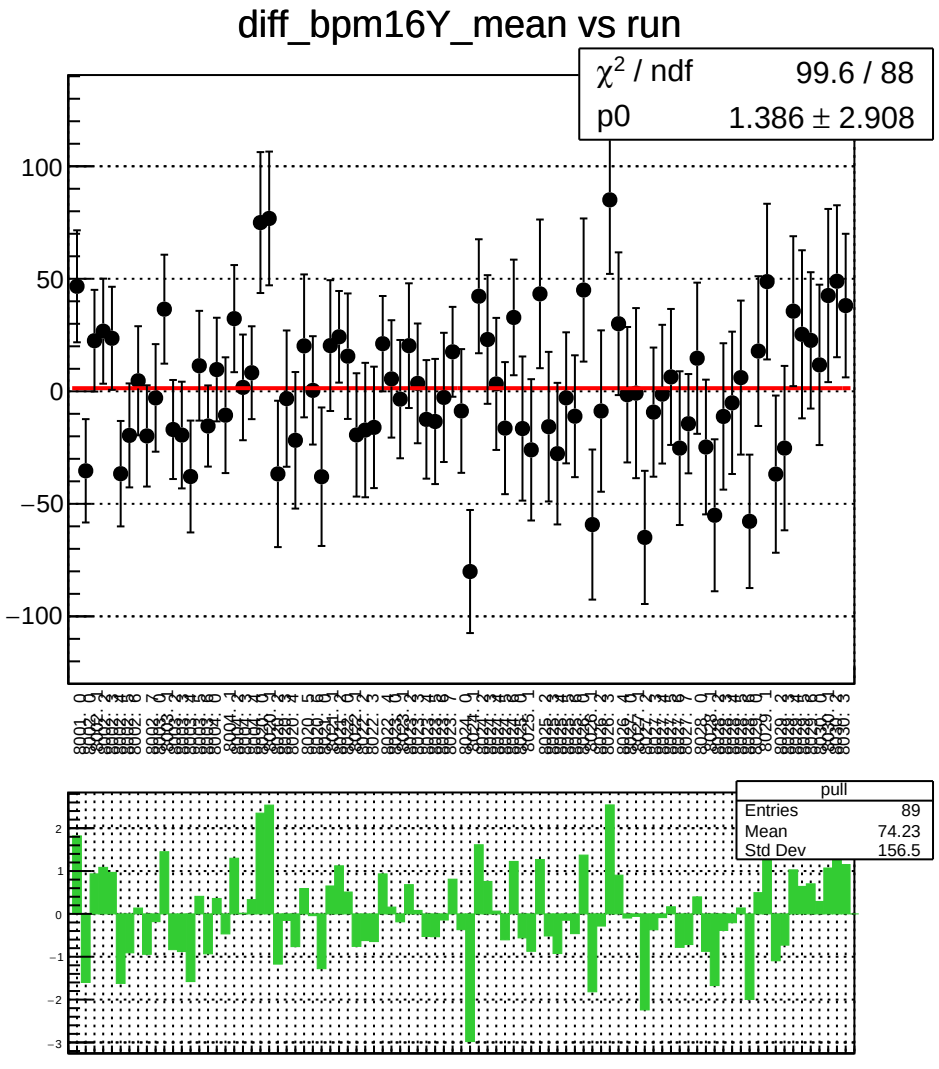

pull1D
Entries 89
Mean 0.005887
Std Dev 0.9419
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

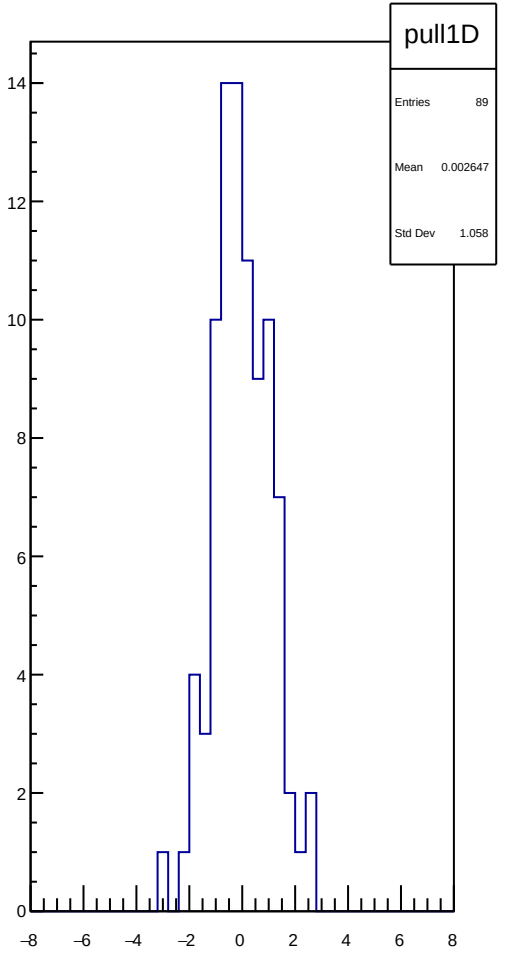

diff_bpm12Y_rms vs run
χ² / ndf 4.195e+04 / 88
p0 1959 ± 1.505
3000
2800
2600
2400
2200
2000
1800

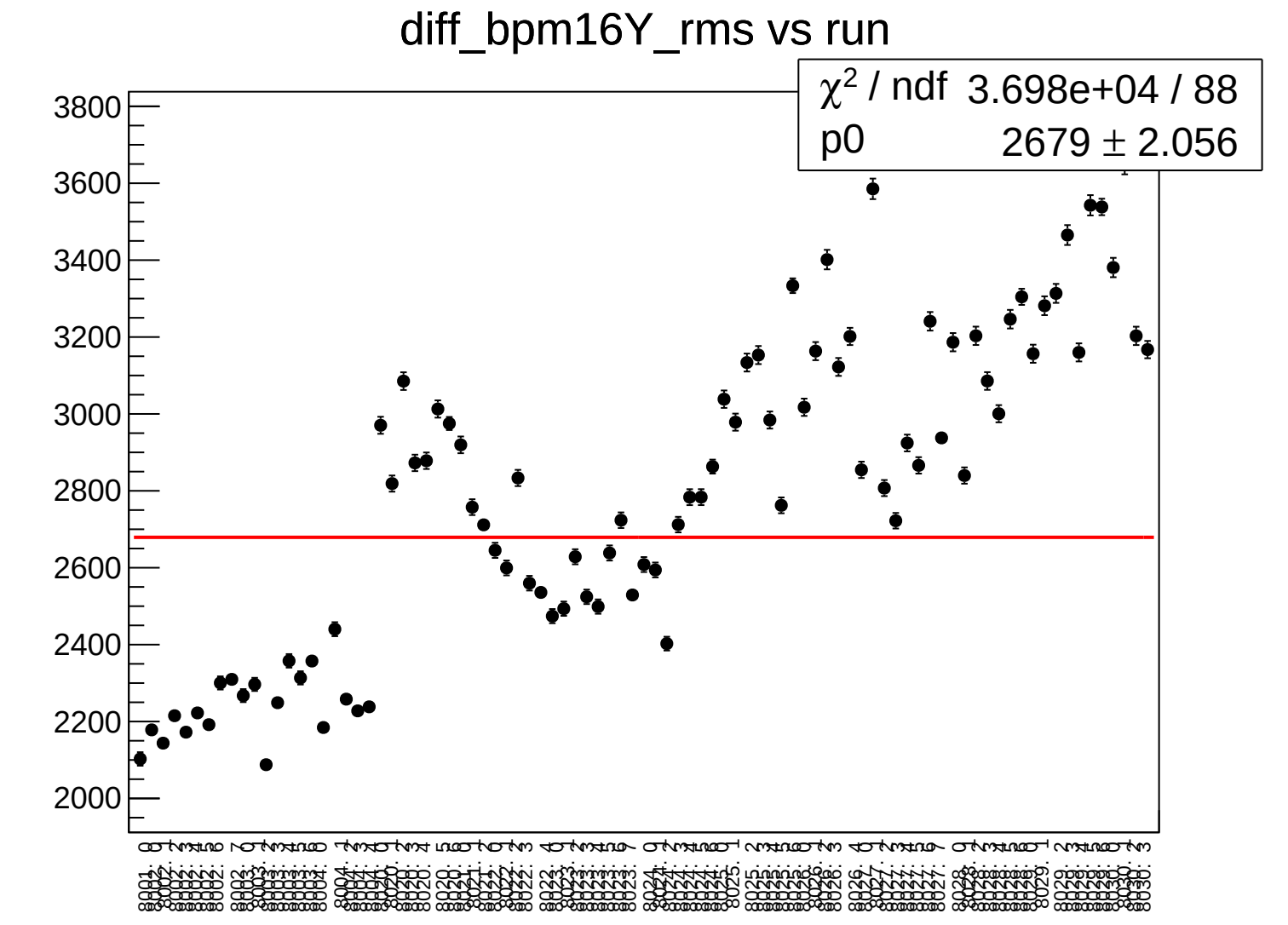

diff_bpm16X_mean vs run
χ² / ndf 87.04 / 88
p0 −7.308 ± 19.39
pull
Entries 89
Mean 209.1
Std Dev 0

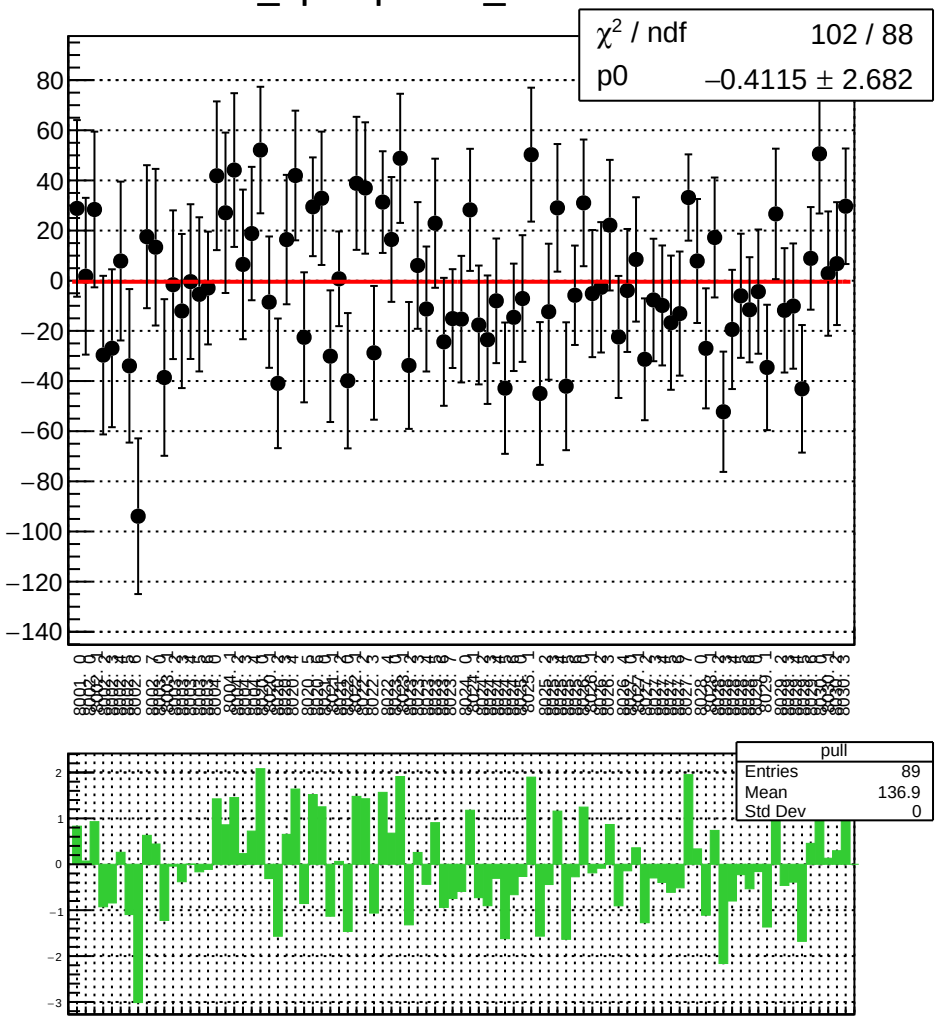

pull1D
Entries 89
Mean −0.01344
Std Dev 0.9888

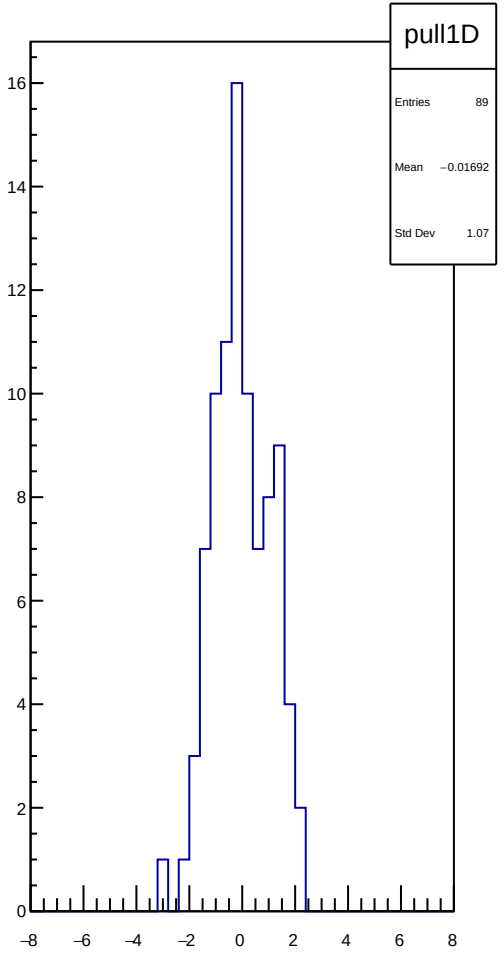

diff_bpm16X_rms vs run
χ² / ndf 1.516e+04 / 88
p0 1.798e+04 ± 13.71
23000
22000
21000
20000
19000
18000
17000
16000

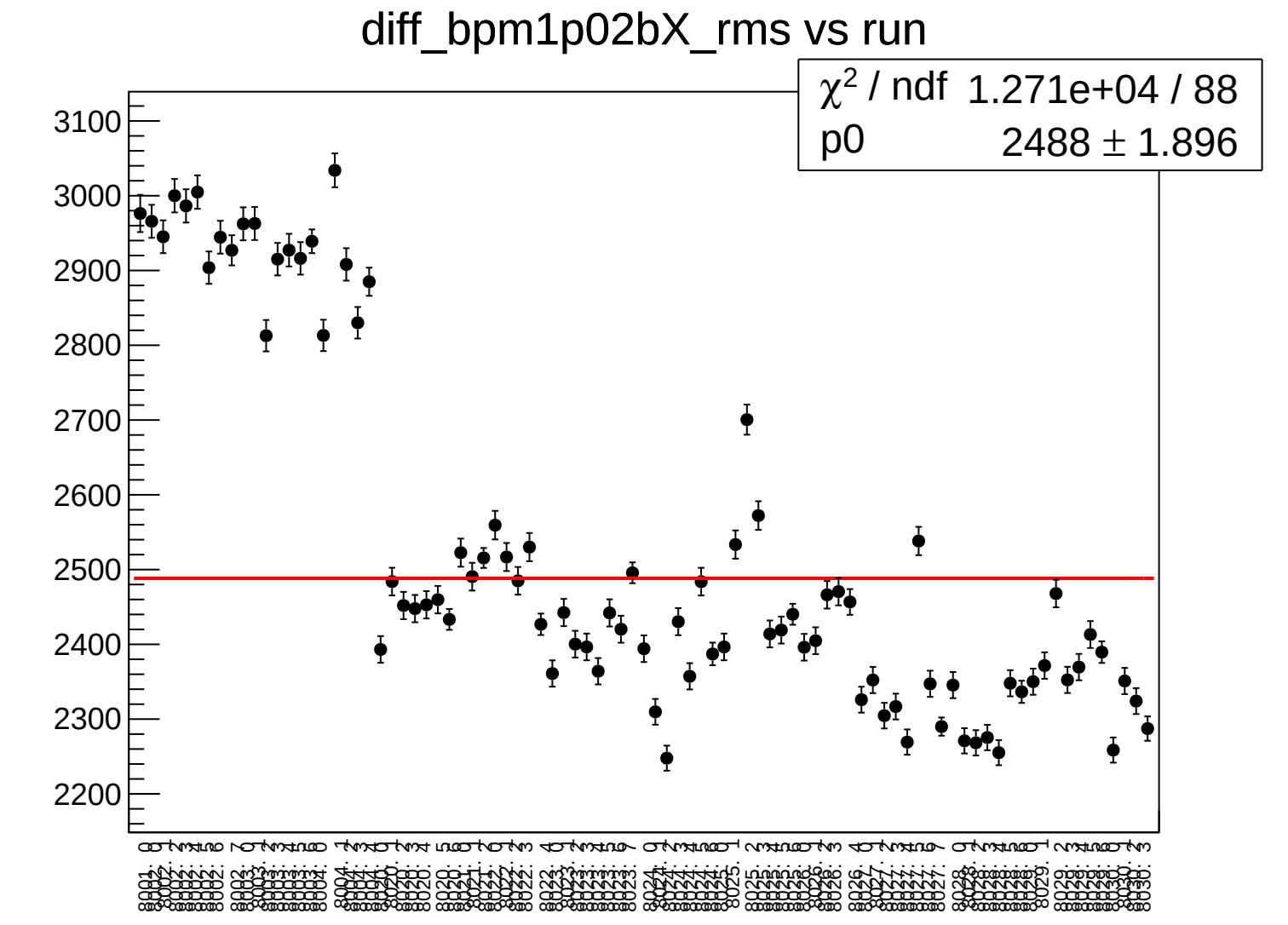

diff_bpm16Y_mean vs run
χ^2 / ndf 99.6 / 88
p0 1.386 ± 2.908
100
50
0
−50
−100
pull
Entries 89
Mean 74.23
Std Dev 156.5
2
1
0
−1
−2
−3

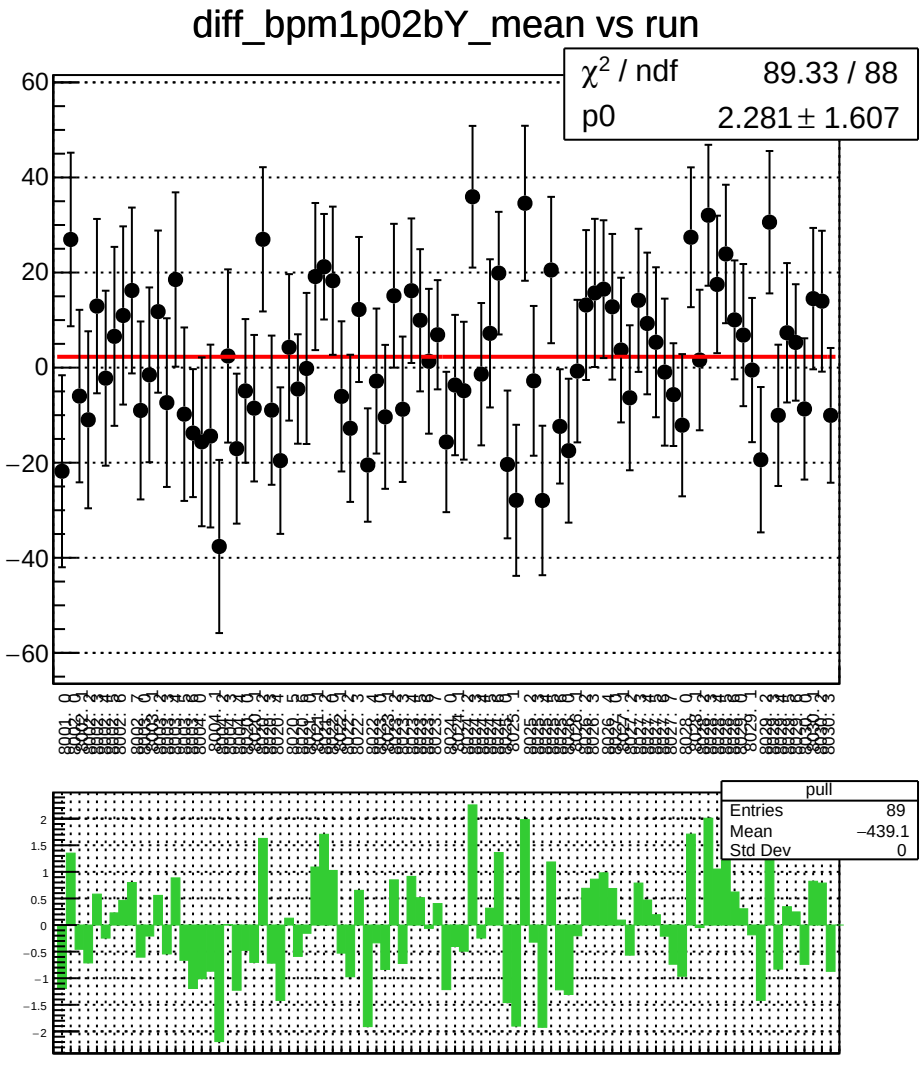

pull1D
Entries 89
Mean 0.002647
Std Dev 1.058
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

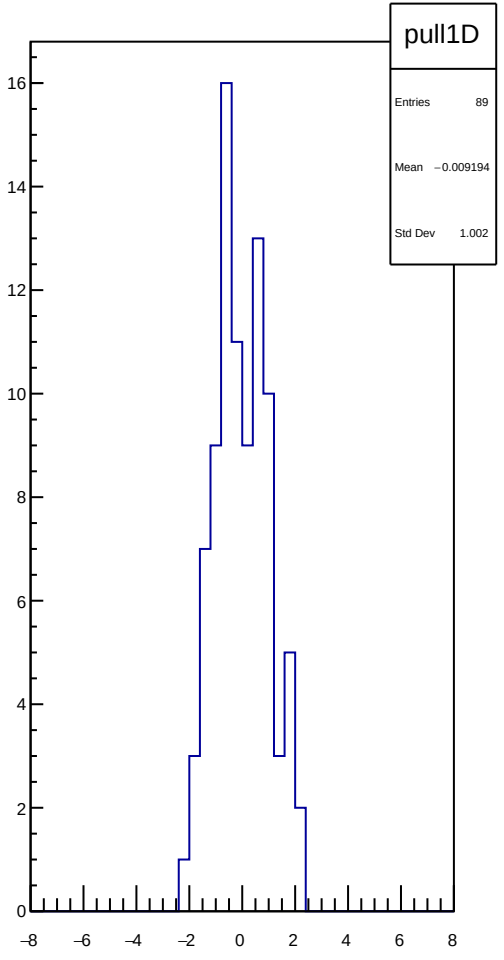

diff_bpm16Y_rms vs run
χ² / ndf 3.698e+04 / 88
p0 2679 ± 2.056
3800
3600
3400
3200
3000
2800
2600
2400
2200
2000

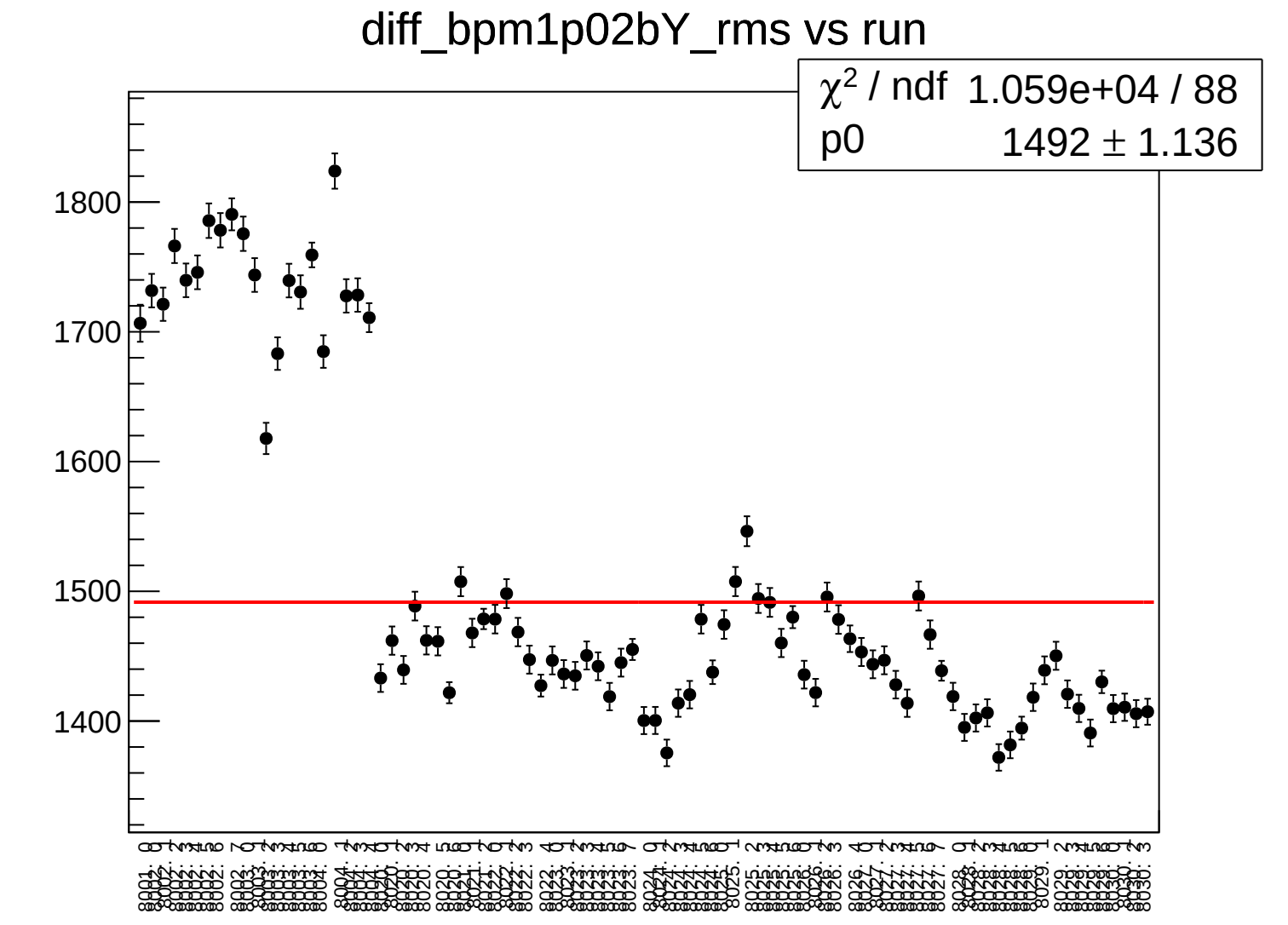

diff_bpm1p02bX_mean vs run
χ² / ndf 102 / 88
p0 −0.4115 ± 2.682
pull
Entries 89
Mean 136.9
Std Dev 0

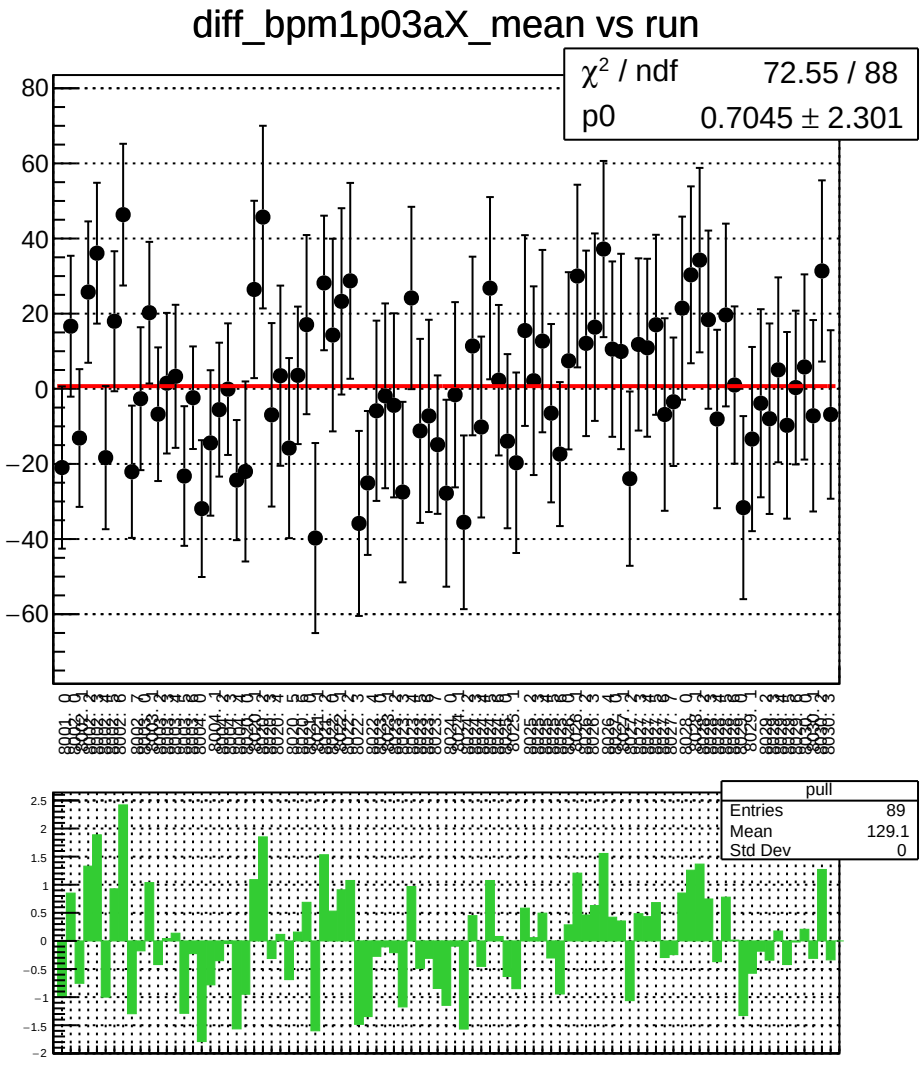

pull1D
Entries 89
Mean −0.01692
Std Dev 1.07

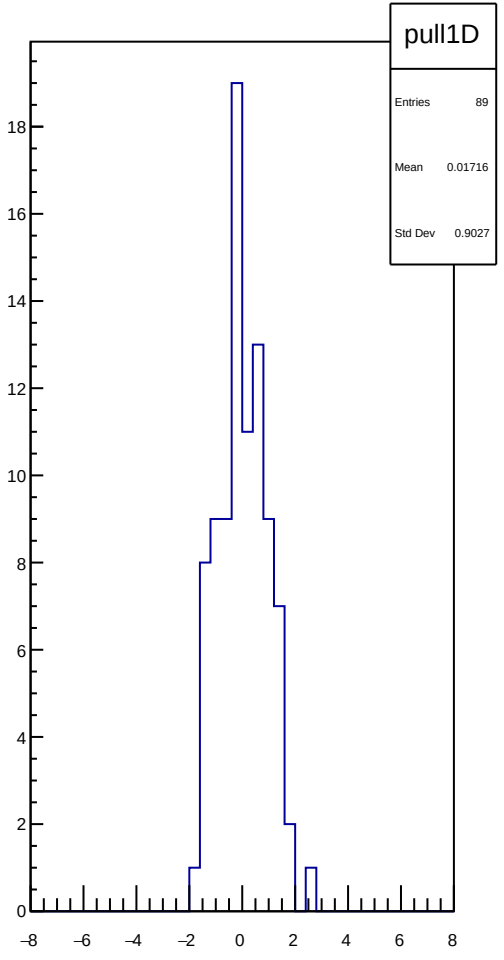

diff_bpm1p02bX_rms vs run
χ² / ndf 1.271e+04 / 88
p0 2488 ± 1.896
3100
3000
2900
2800
2700
2600
2500
2400
2300
2200

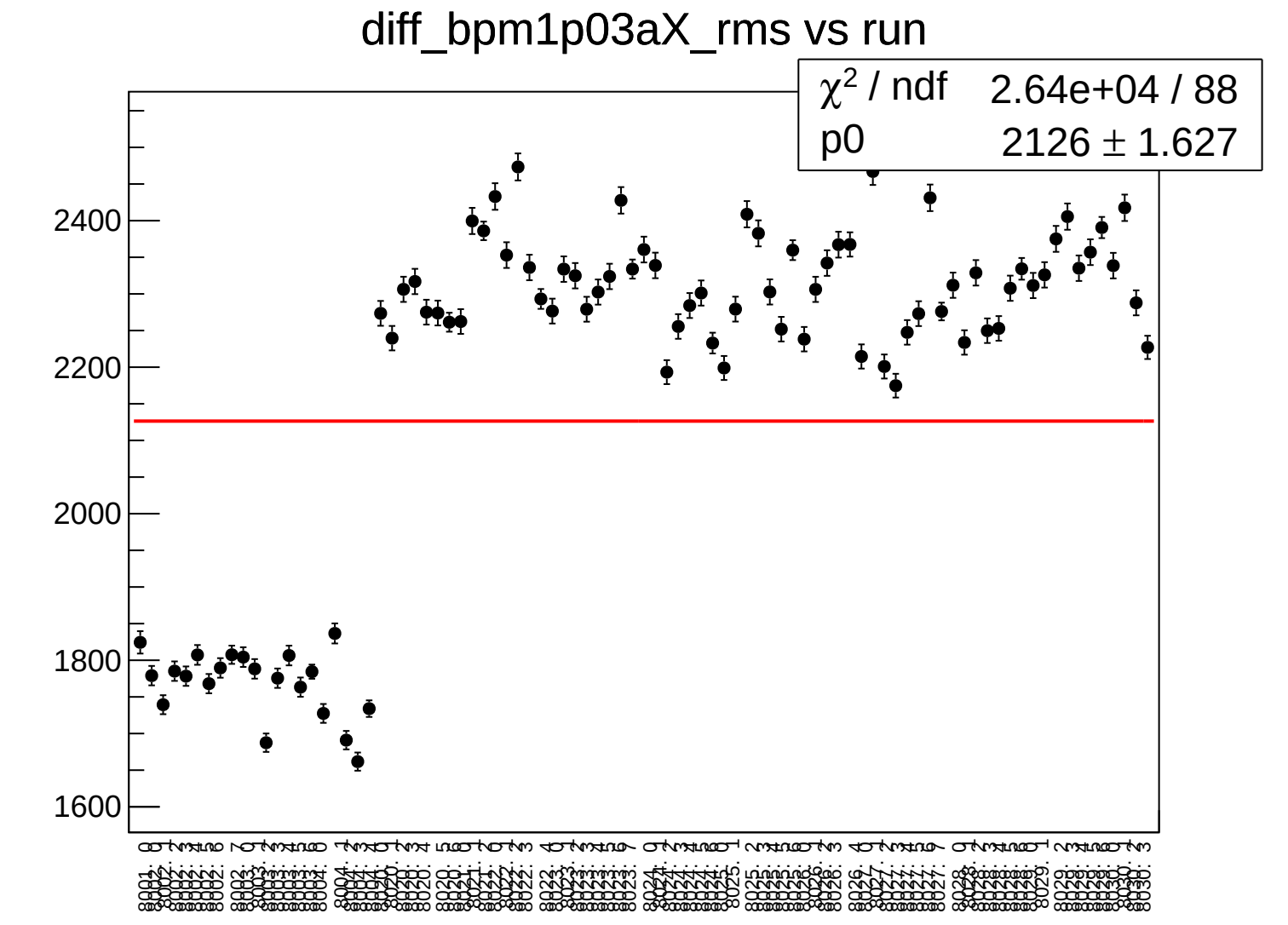

diff_bpm1p02bY_mean vs run
χ² / ndf 89.33 / 88
p0 2.281 ± 1.607
pull
Entries 89
Mean −439.1
Std Dev 0

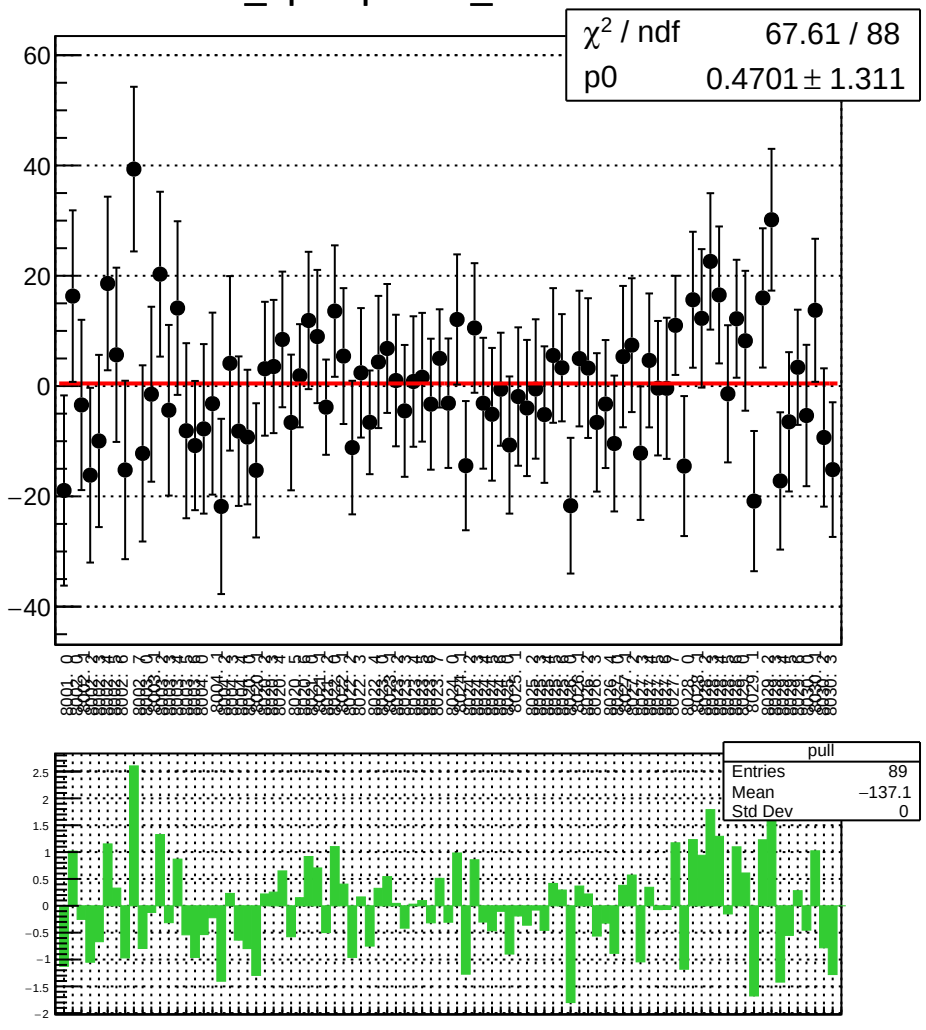

pull1D
Entries 89
Mean −0.009194
Std Dev 1.002

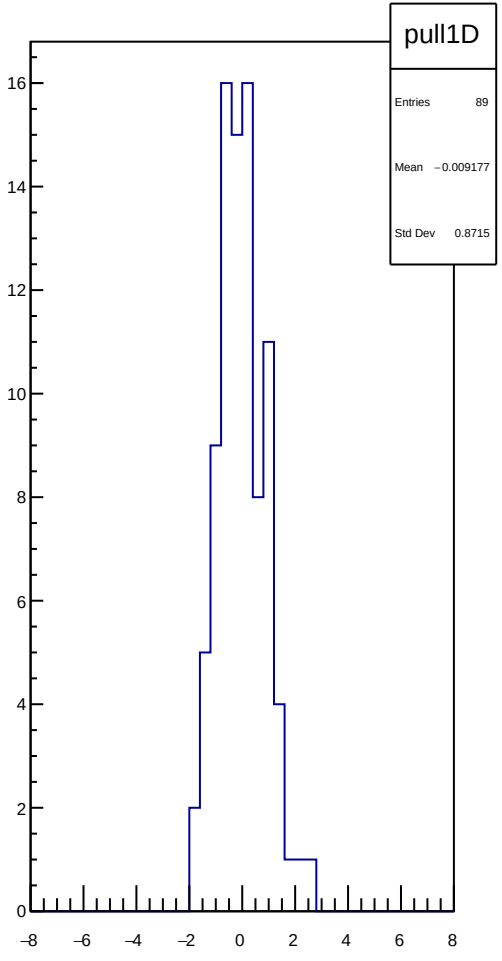

diff_bpm1p02bY_rms vs run
χ² / ndf 1.059e+04 / 88
p0 1492 ± 1.136
1800
1700
1600
1500
1400

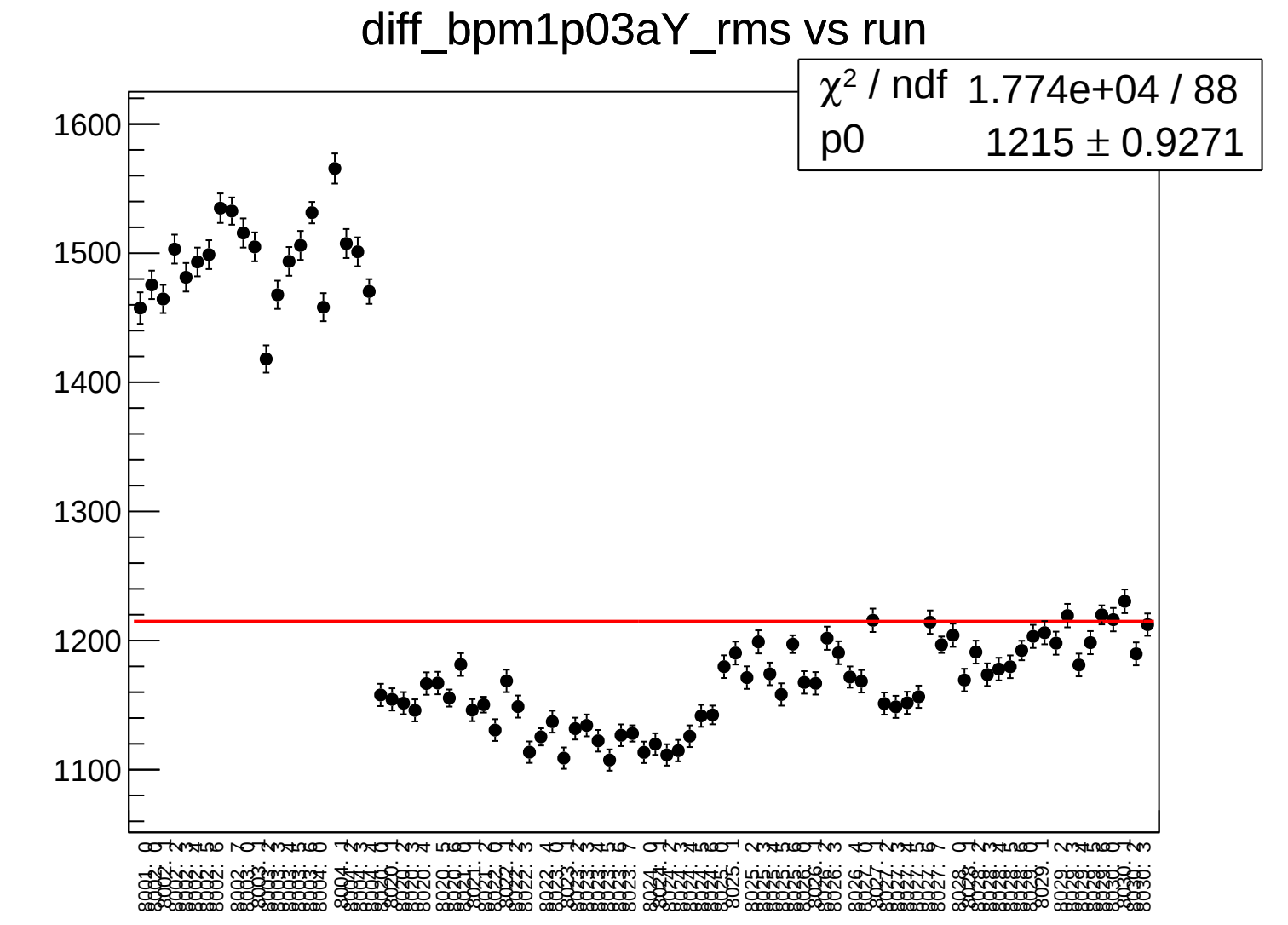

diff_bpm1p03aX_mean vs run
χ² / ndf 72.55 / 88
p0 0.7045 ± 2.301
pull
Entries 89
Mean 129.1
Std Dev 0

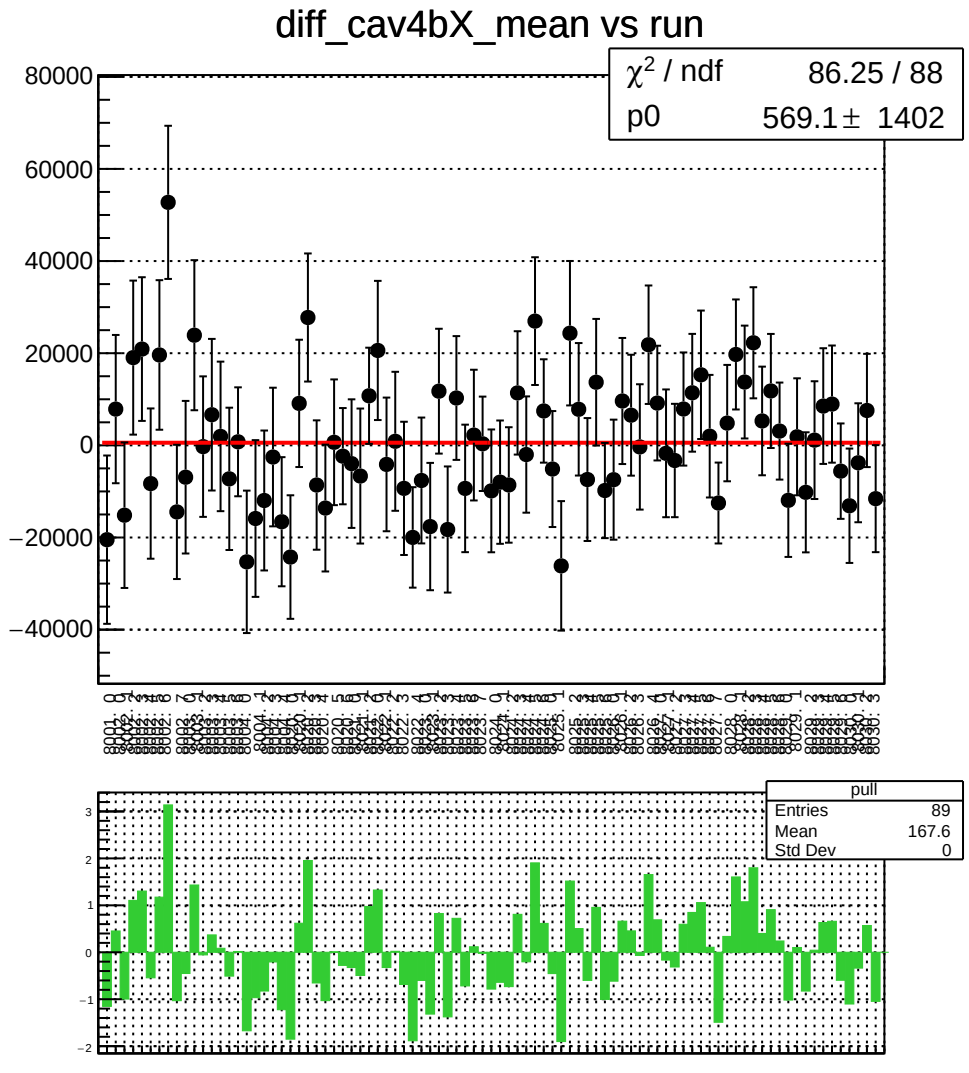

pull1D
Entries 89
Mean 0.01716
Std Dev 0.9027

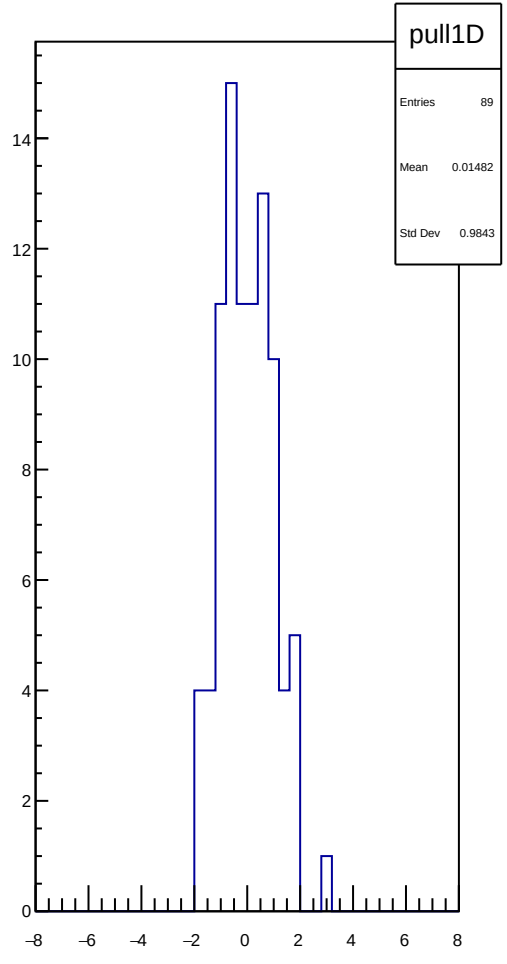

diff_bpm1p03aX_rms vs run
χ² / ndf 2.64e+04 / 88
p0 2126 ± 1.627
2400
2200
2000
1800
1600

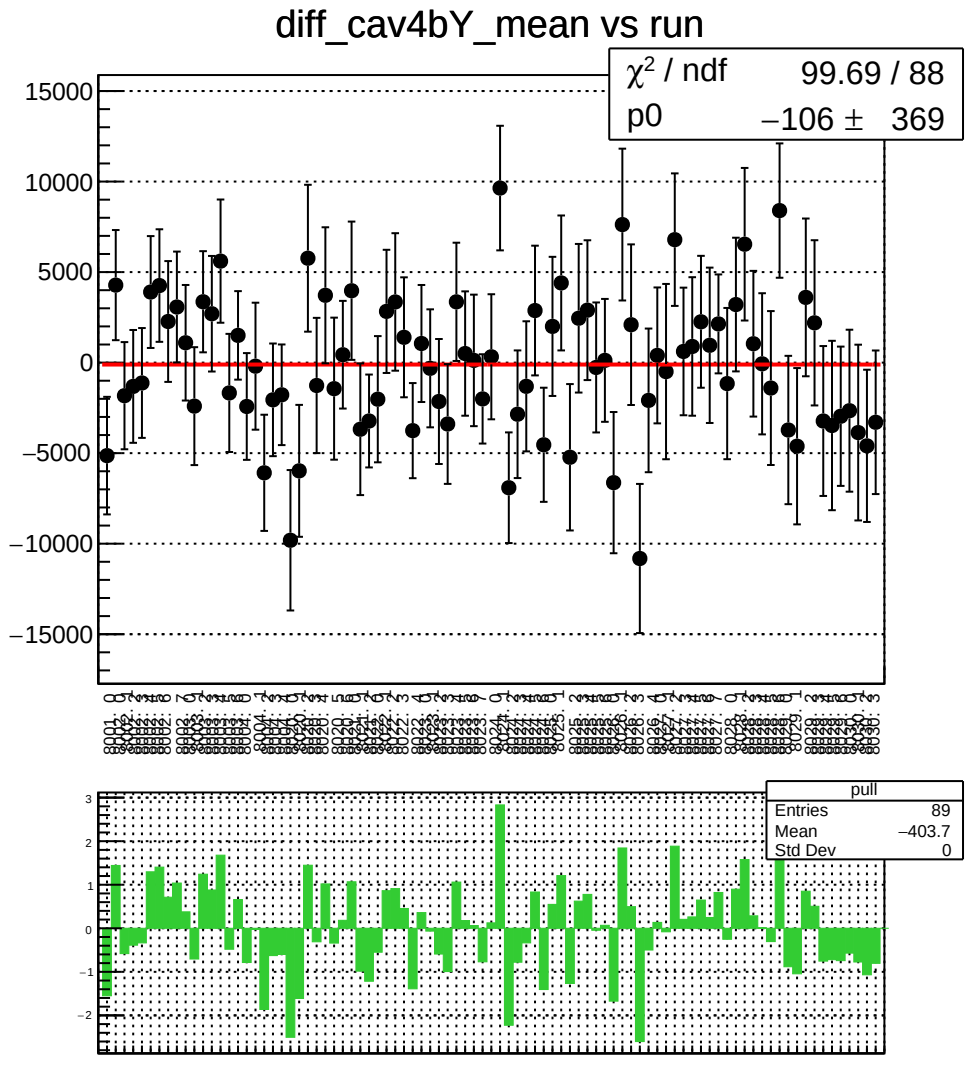

diff_bpm1p03aY_mean vs run
χ² / ndf 67.61 / 88
p0 0.4701 ± 1.311
pull
Entries 89
Mean −137.1
Std Dev 0

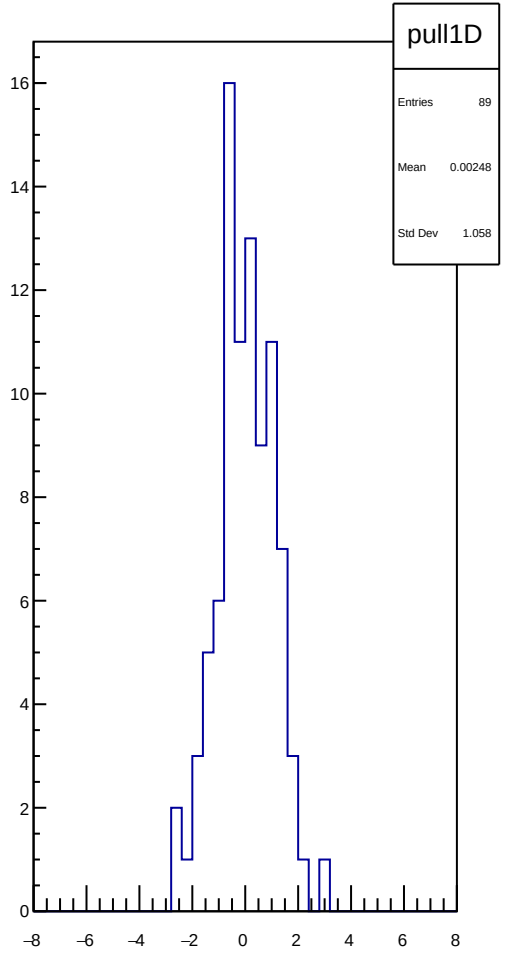

pull1D
Entries 89
Mean −0.009177
Std Dev 0.8715

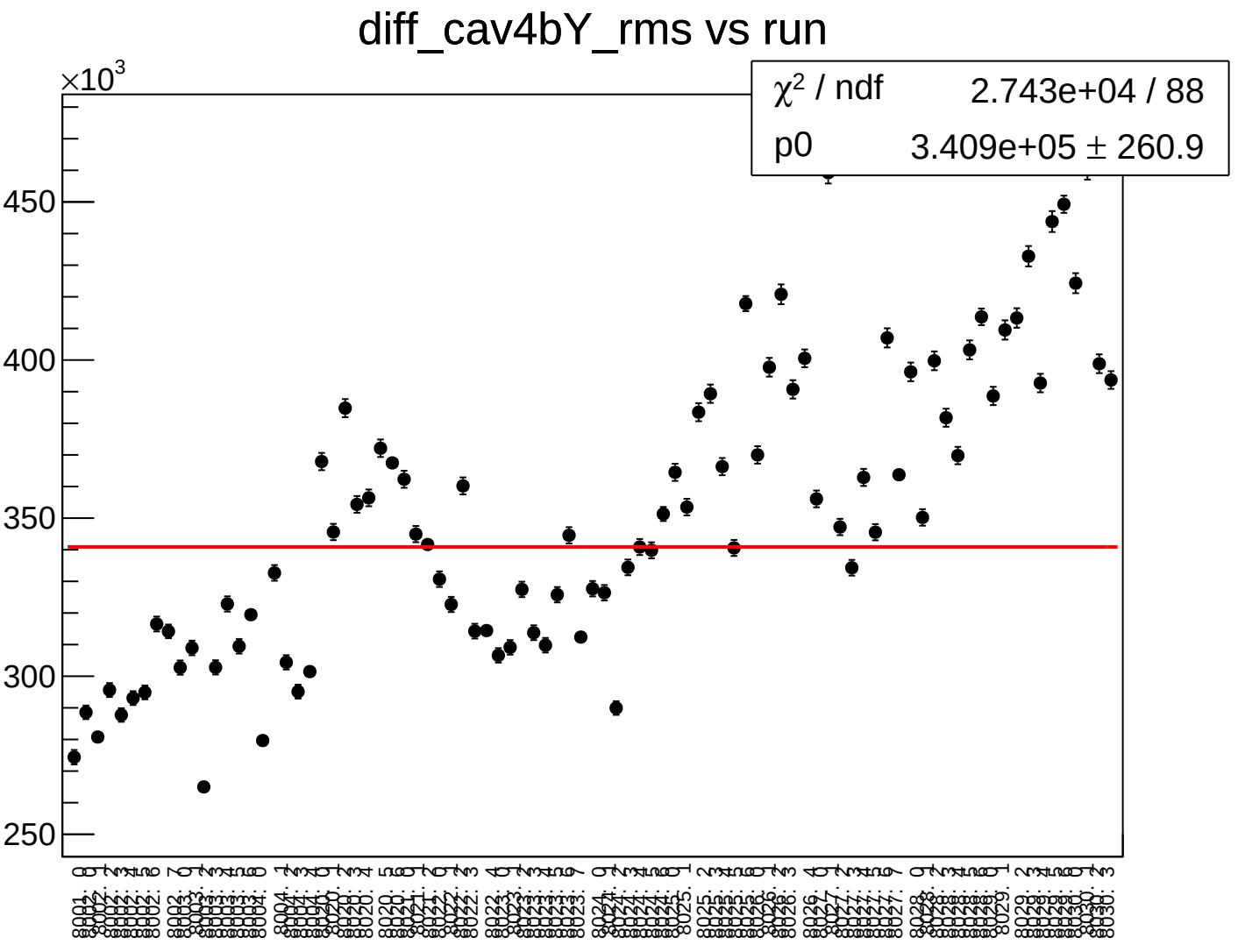

diff_bpm1p03aY_rms vs run
χ² / ndf 1.774e+04 / 88
p0 1215 ± 0.9271
1600
1500
1400
1300
1200
1100

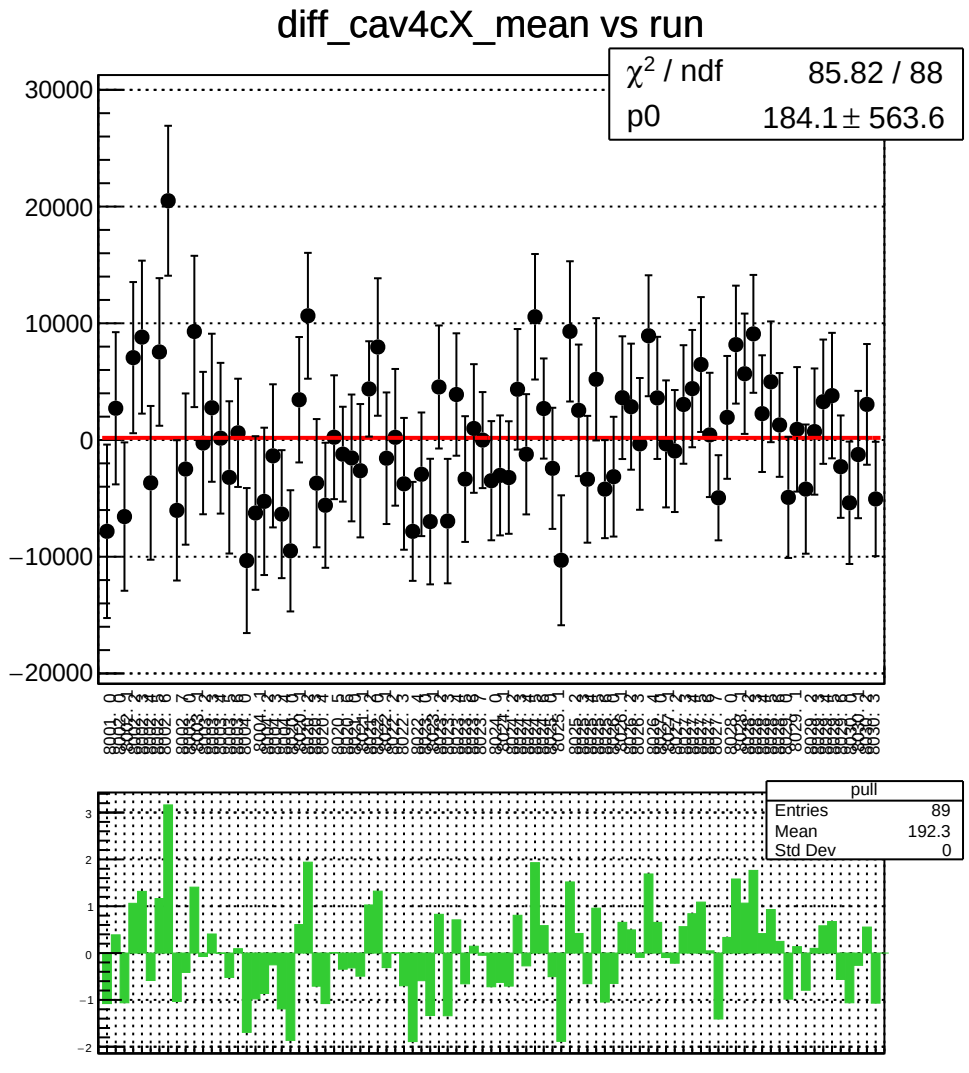

diff_cav4bX_mean vs run
χ² / ndf 86.25 / 88
p0 569.1 ± 1402
pull
Entries 89
Mean 167.6
Std Dev 0

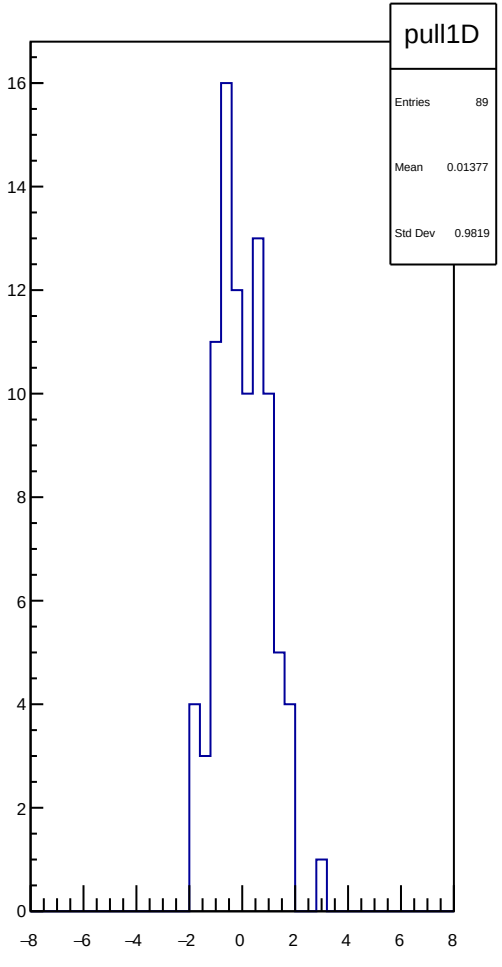

pull1D
Entries 89
Mean 0.01482
Std Dev 0.9843

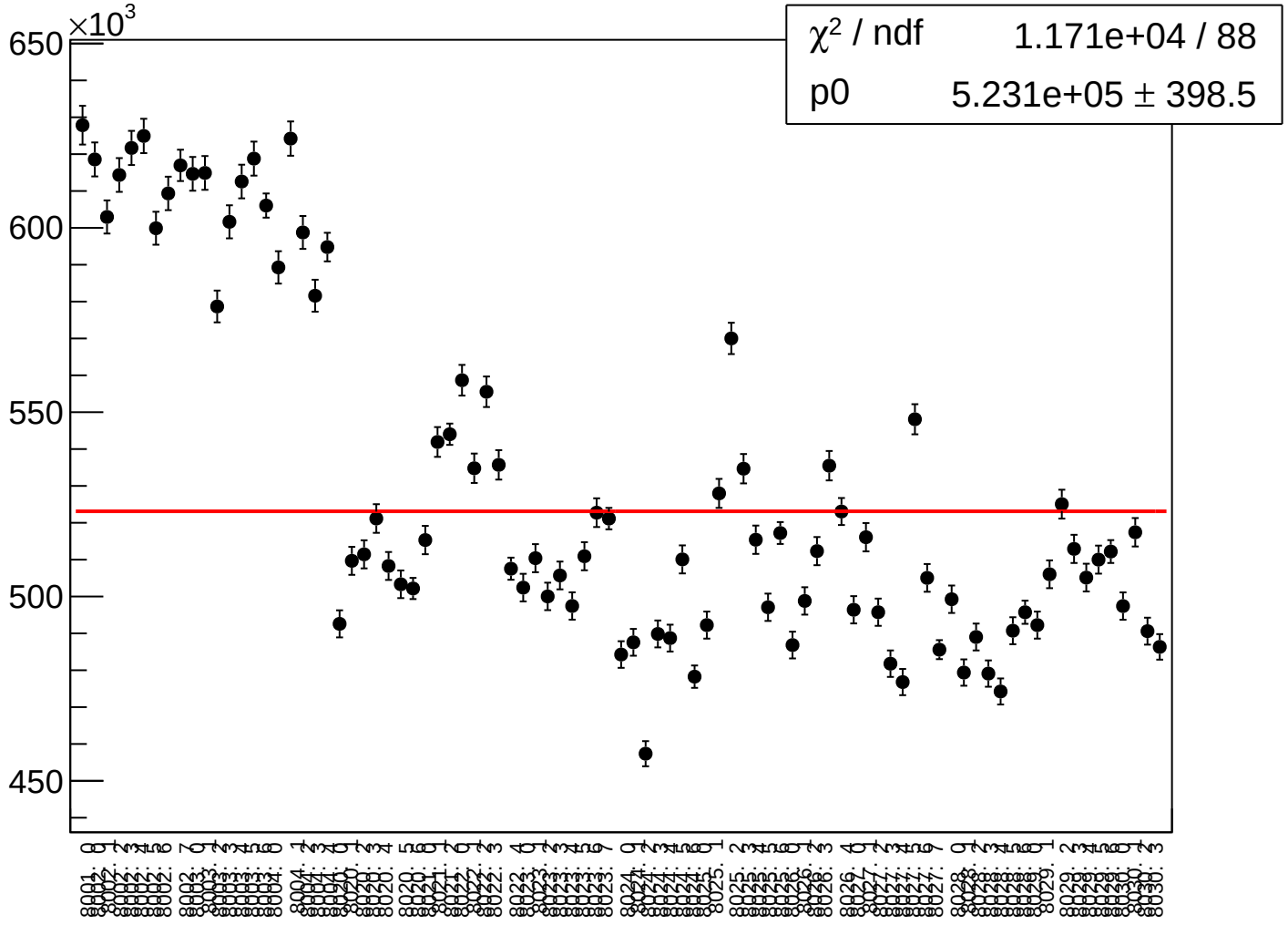

diff_cav4bY_mean vs run
χ² / ndf 99.69 / 88
p0 −106 ± 369
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −403.7
Std Dev 0
3
2
1
0
−1
−2

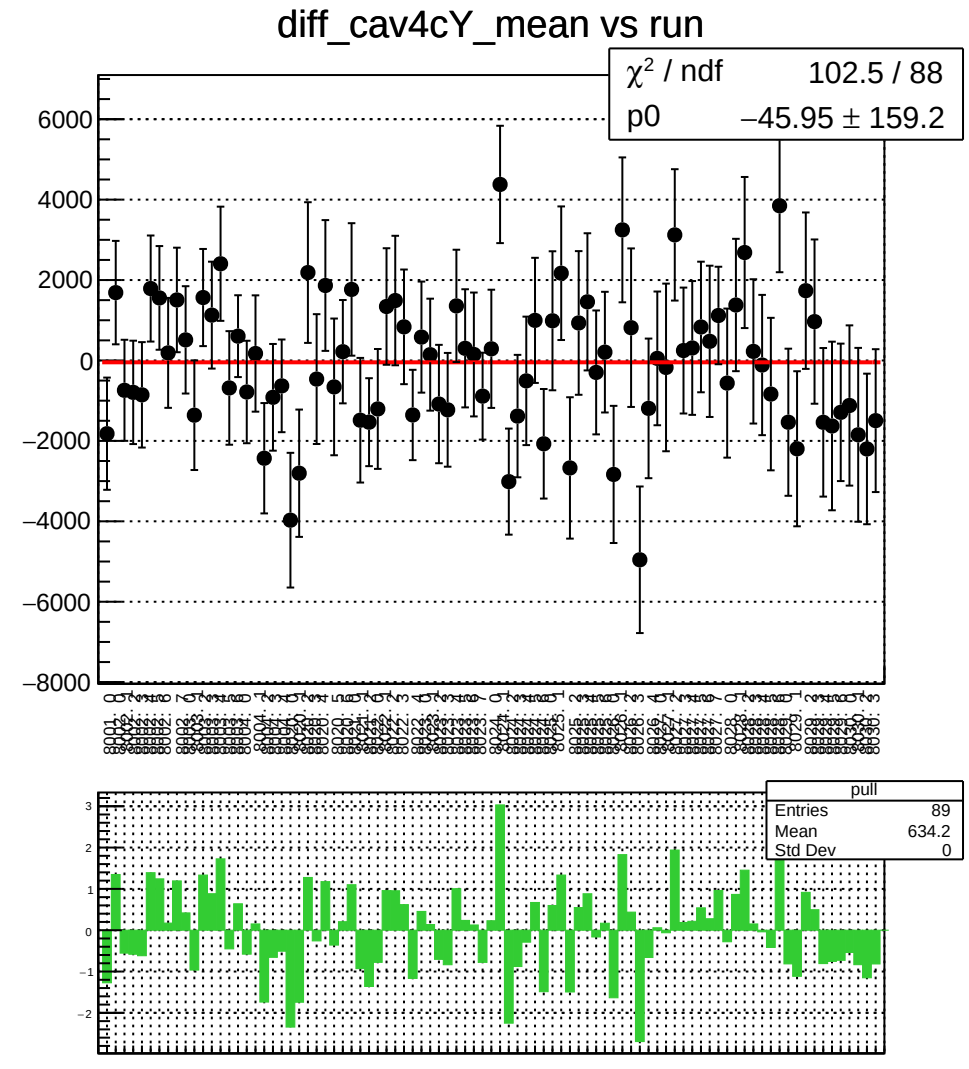

pull1D
Entries 89
Mean 0.00248
Std Dev 1.058
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

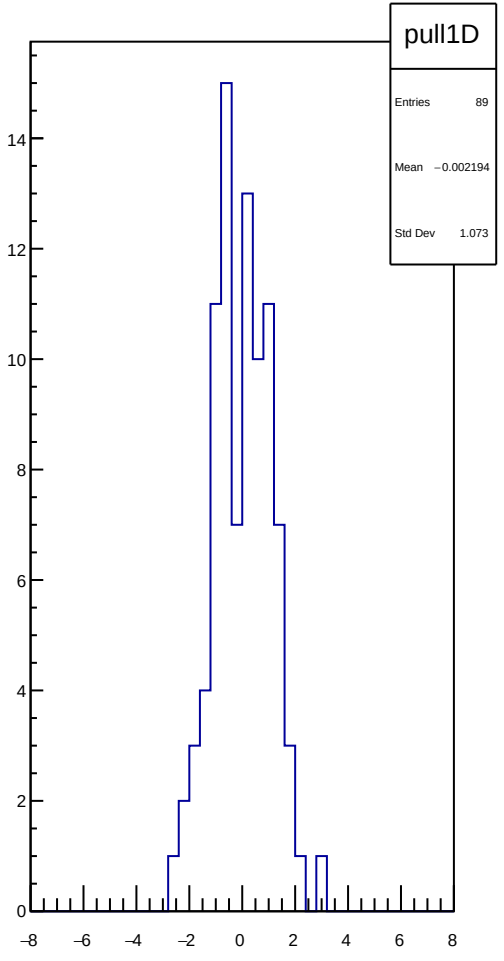

diff_cav4bY_rms vs run
×10^3
χ² / ndf 2.743e+04 / 88
p0 3.409e+05 ± 260.9
450
400
350
300
250

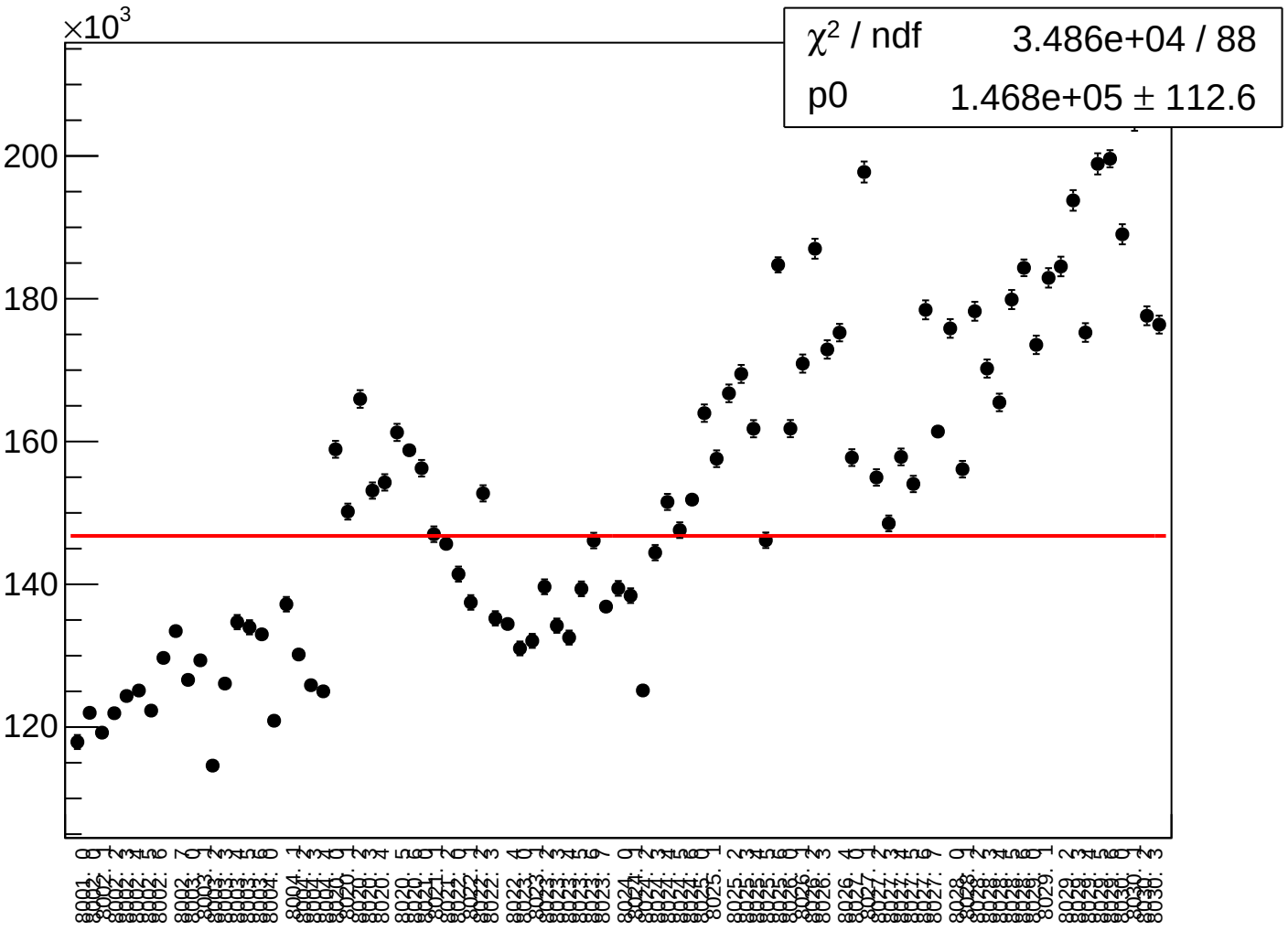

diff_cav4cX_mean vs run
χ^2 / ndf 85.82 / 88
p0 184.1 ± 563.6
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 192.3
Std Dev 0
3
2
1
0
−1
−2

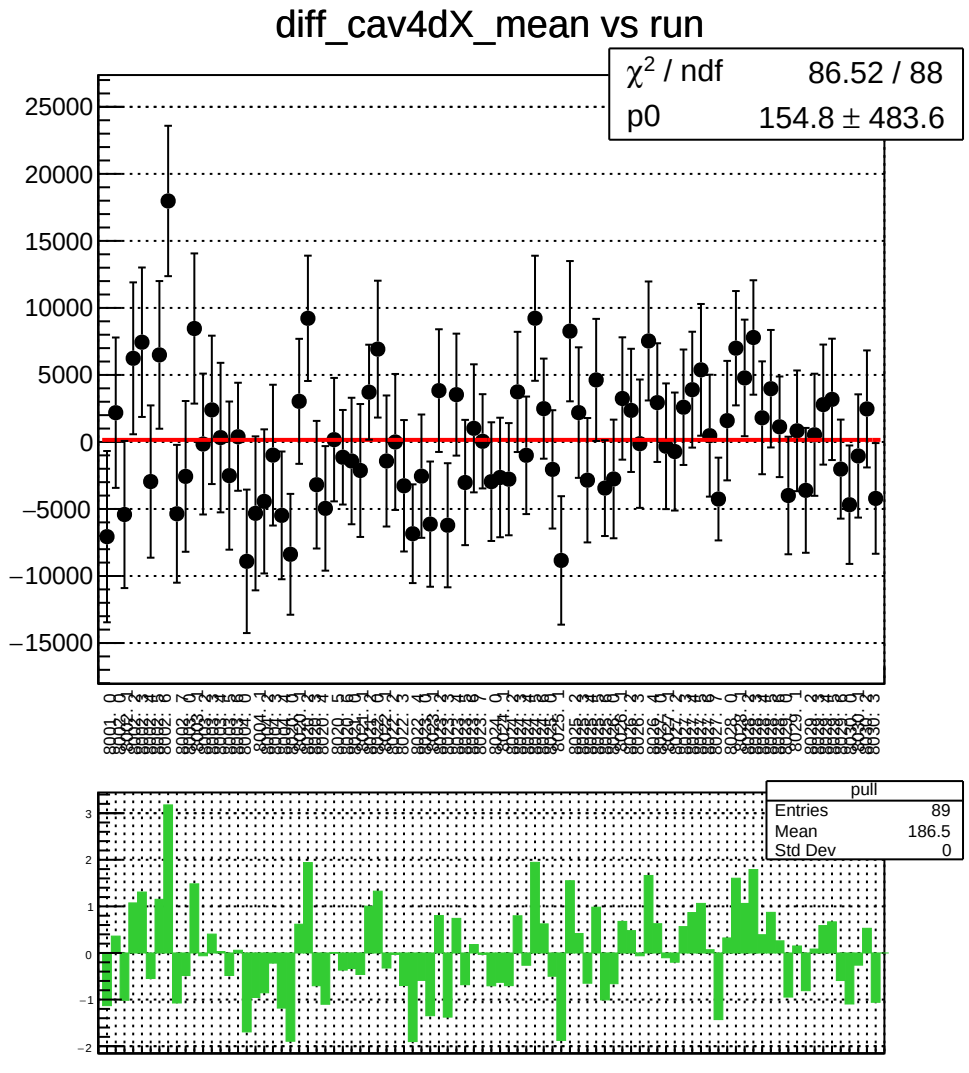

pull1D
Entries 89
Mean 0.01377
Std Dev 0.9819
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

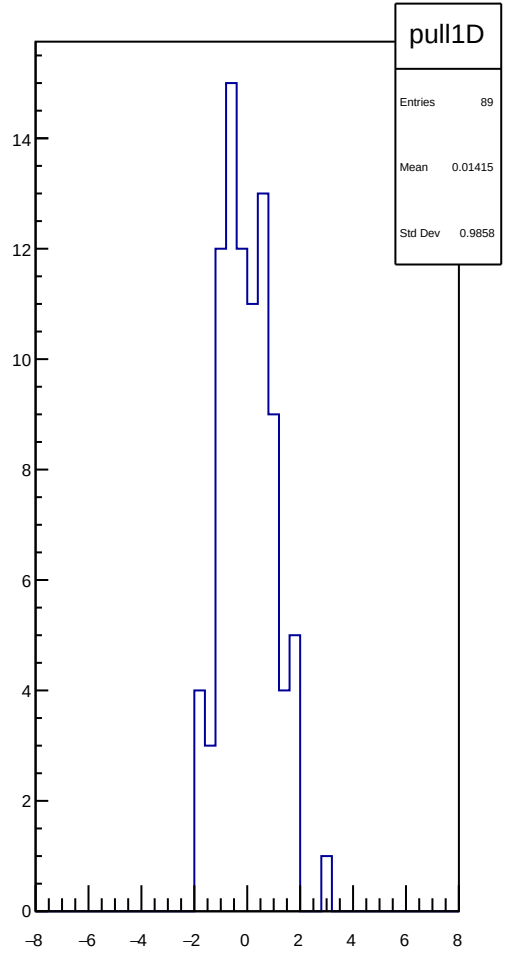

diff_cav4cX_rms vs run
×10^3
650
600
550
500
450
χ² / ndf 1.171e+04 / 88
p0 5.231e+05 ± 398.5

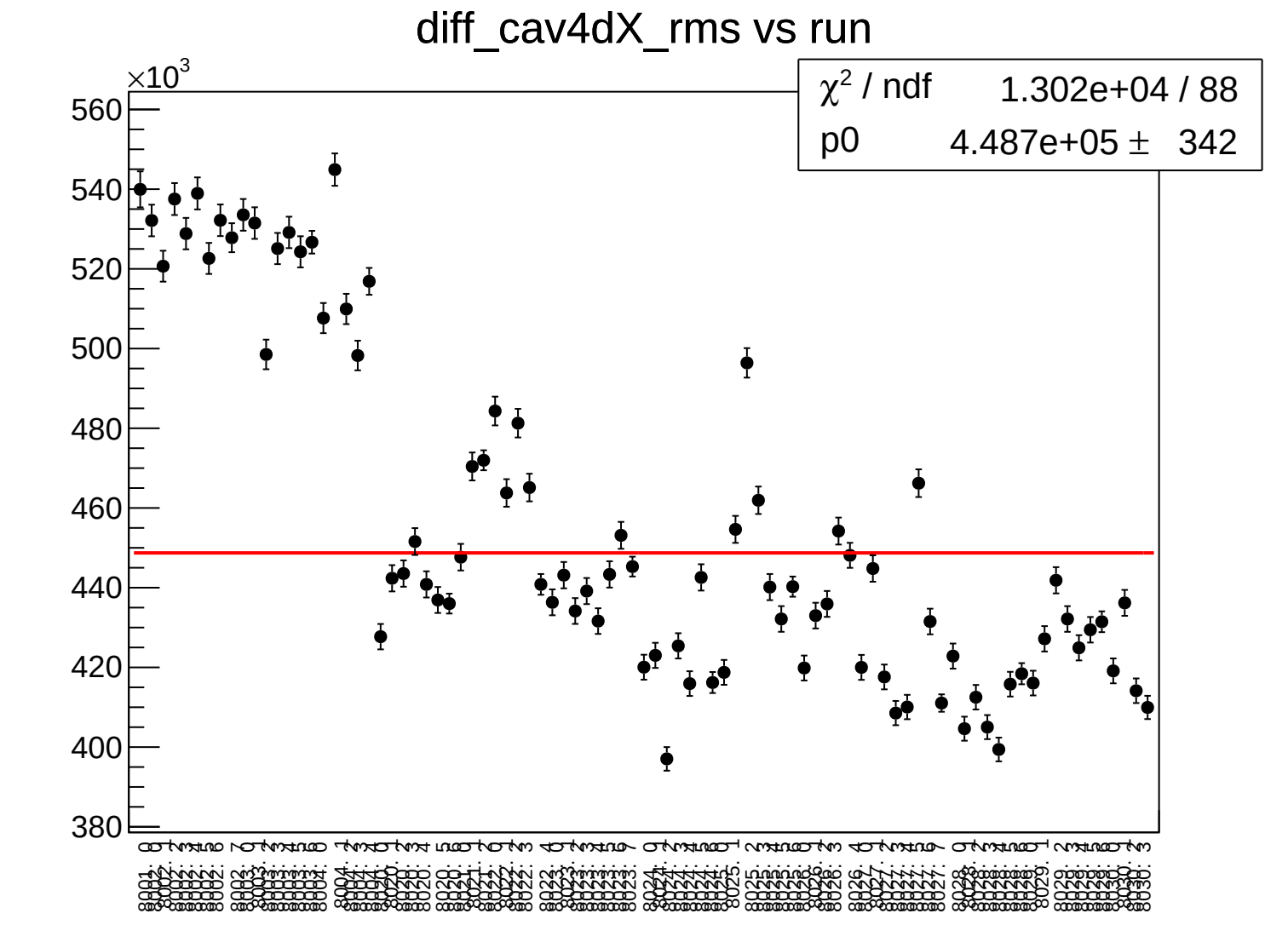

diff_cav4cY_mean vs run
χ^2 / ndf 102.5 / 88
p0 −45.95 ± 159.2
pull
Entries 89
Mean 634.2
Std Dev 0

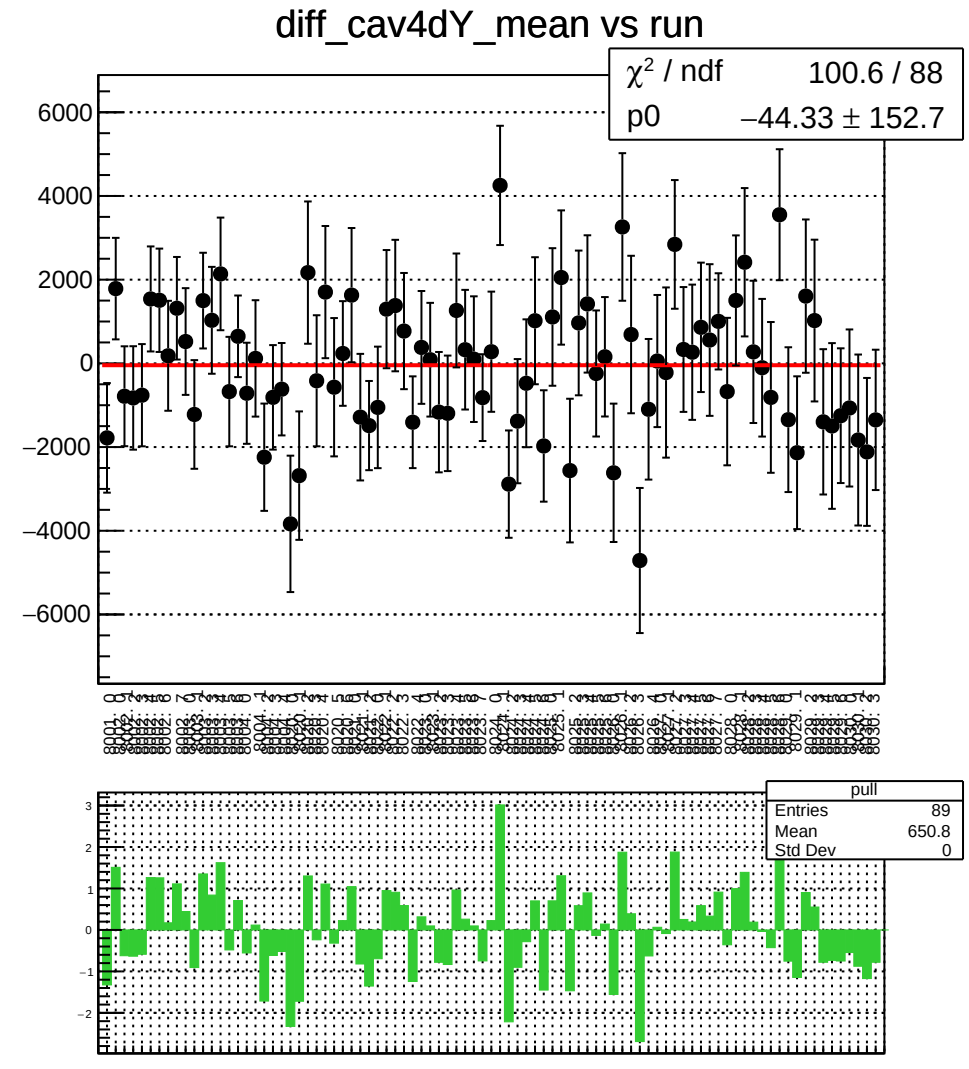

pull1D
Entries 89
Mean −0.002194
Std Dev 1.073

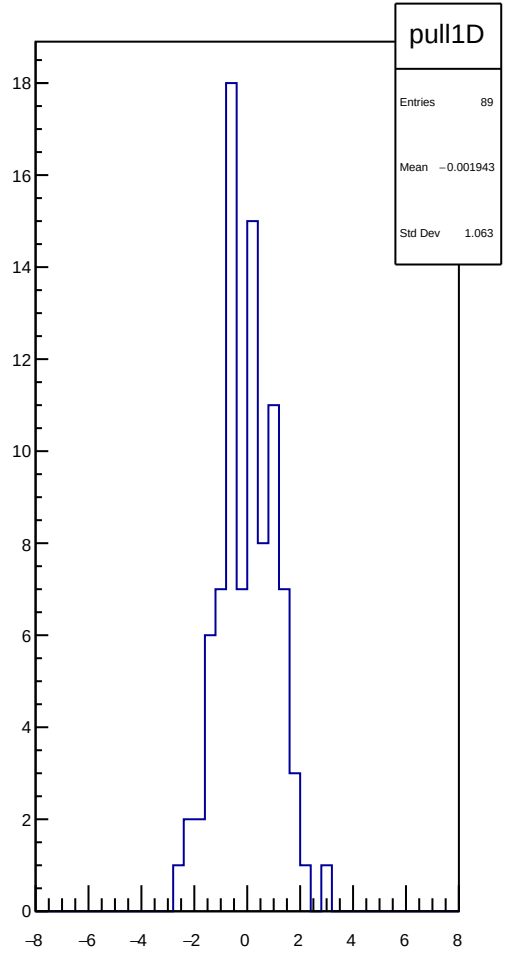

diff_cav4cY_rms vs run
×10^3
χ^2 / ndf 3.486e+04 / 88
p0 1.468e+05 ± 112.6
200
180
160
140
120

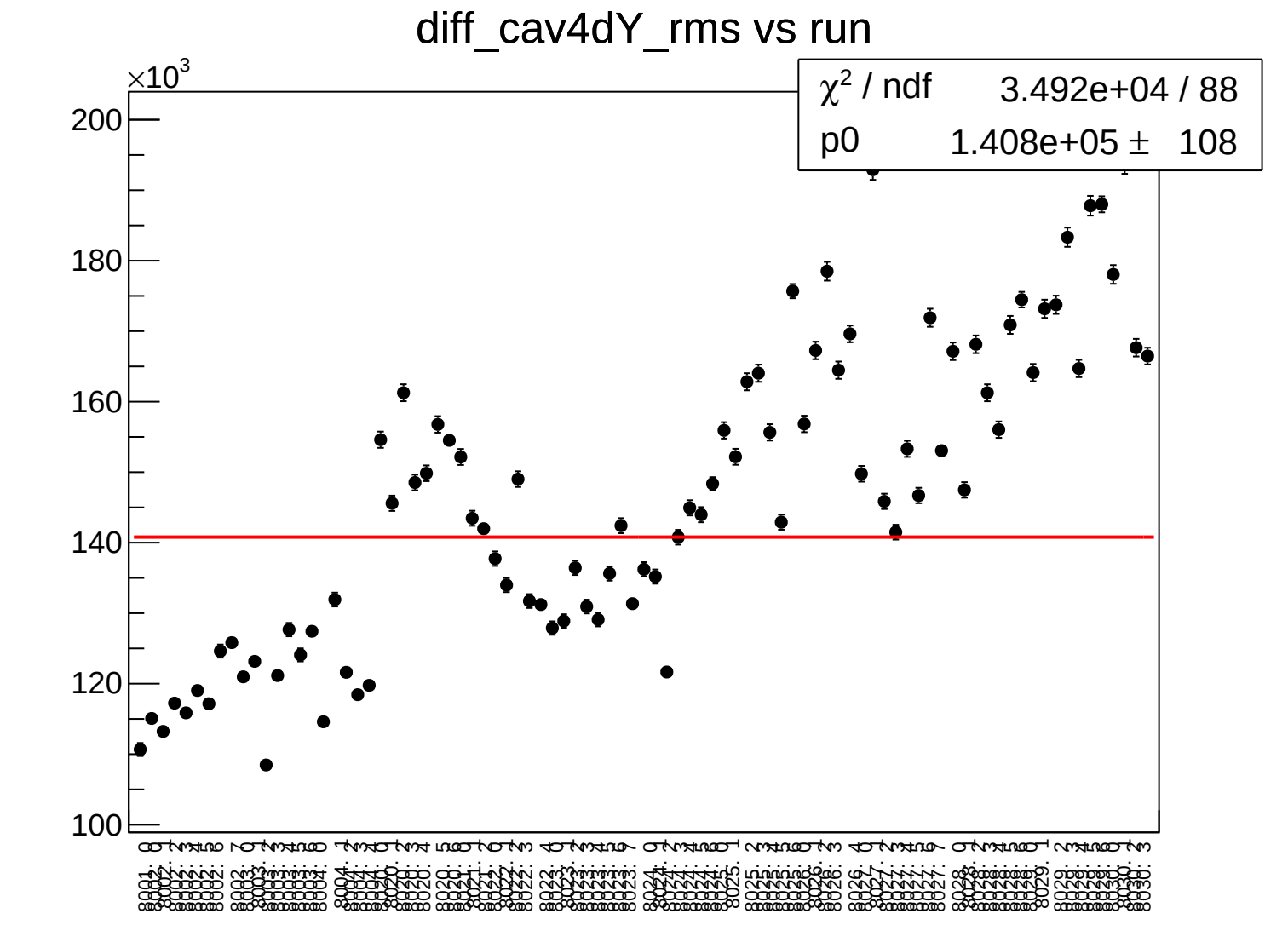

diff_cav4dX_mean vs run
χ² / ndf 86.52 / 88
p0 154.8 ± 483.6
pull
Entries 89
Mean 186.5
Std Dev 0

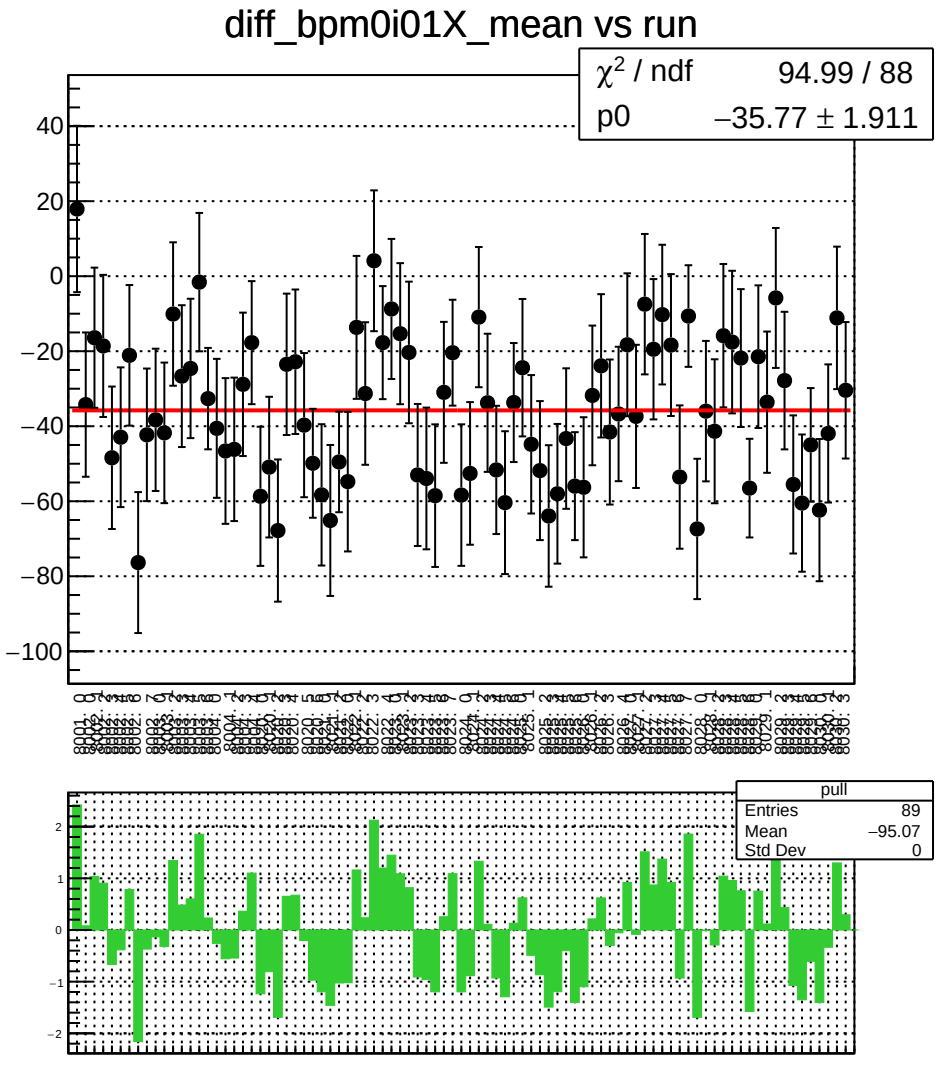

pull1D
Entries 89
Mean 0.01415
Std Dev 0.9858

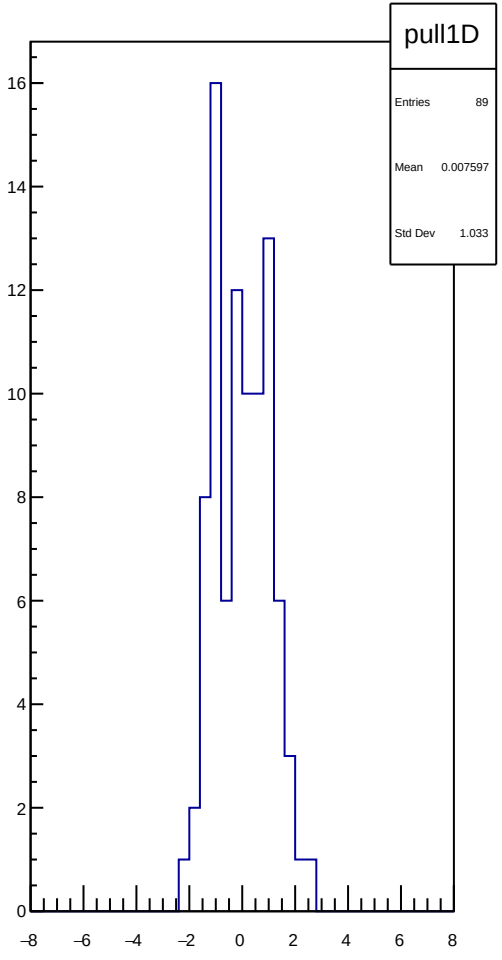

diff_cav4dX_rms vs run
×10^3
χ^2 / ndf 1.302e+04 / 88
p0 4.487e+05 ± 342
560
540
520
500
480
460
440
420
400
380

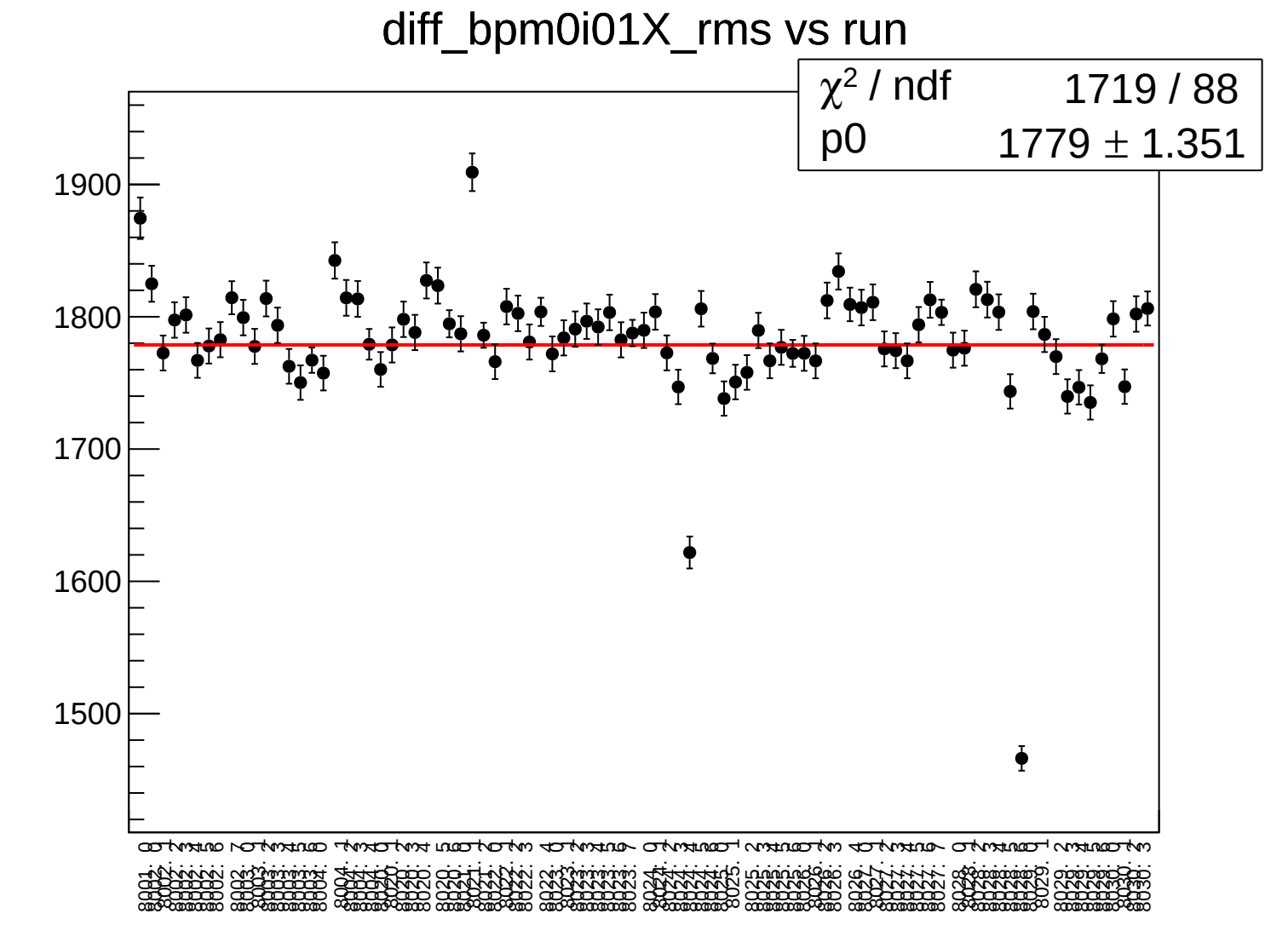

diff_cav4dY_mean vs run
χ² / ndf 100.6 / 88
p0 −44.33 ± 152.7
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean 650.8
Std Dev 0
3
2
1
0
−1
−2

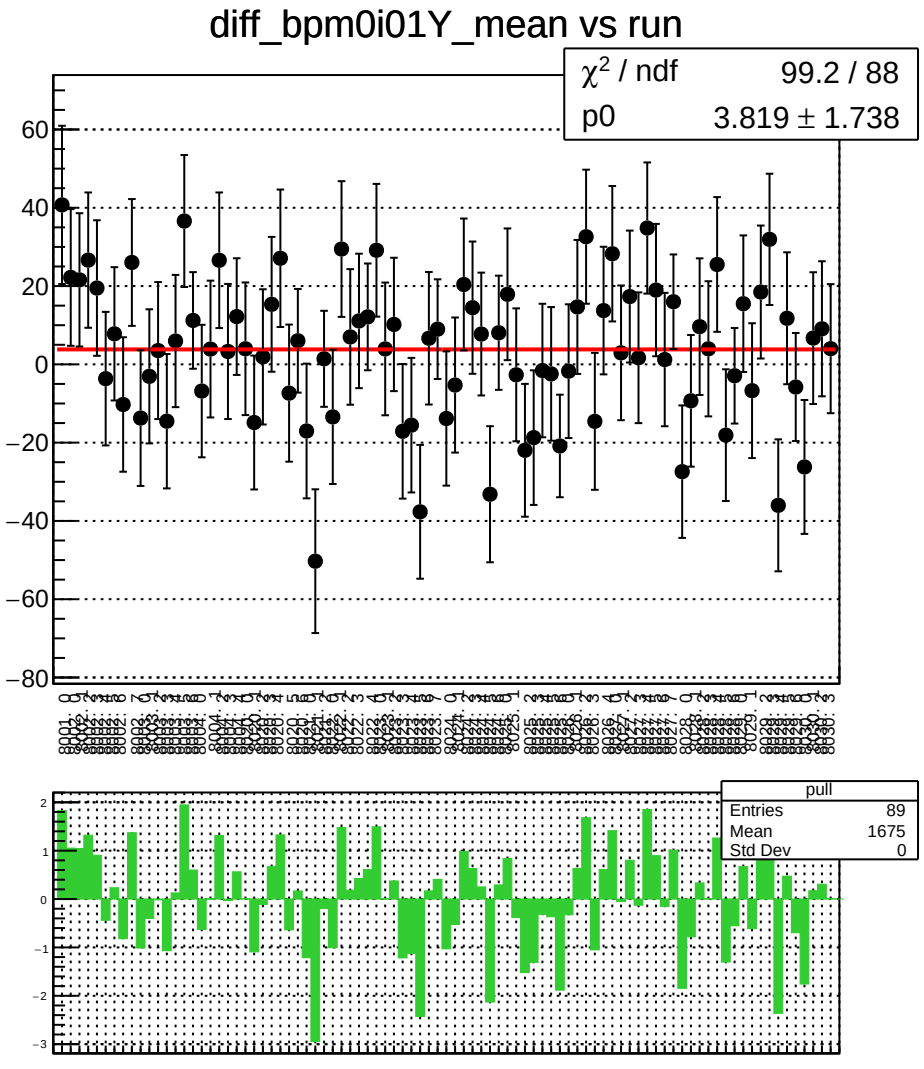

pull1D
Entries 89
Mean −0.001943
Std Dev 1.063
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

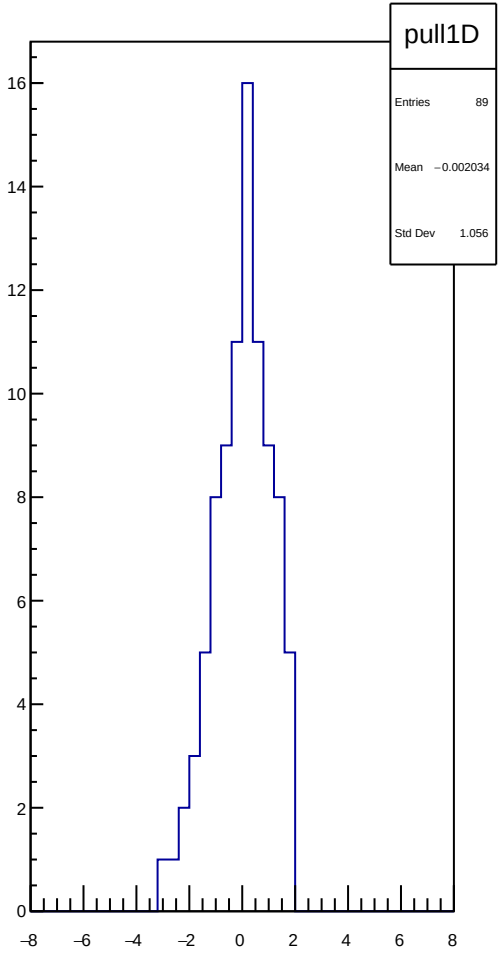

diff_cav4dY_rms vs run
×10^3
χ^2 / ndf 3.492e+04 / 88
p0 1.408e+05 ± 108
200
180
160
140
120
100

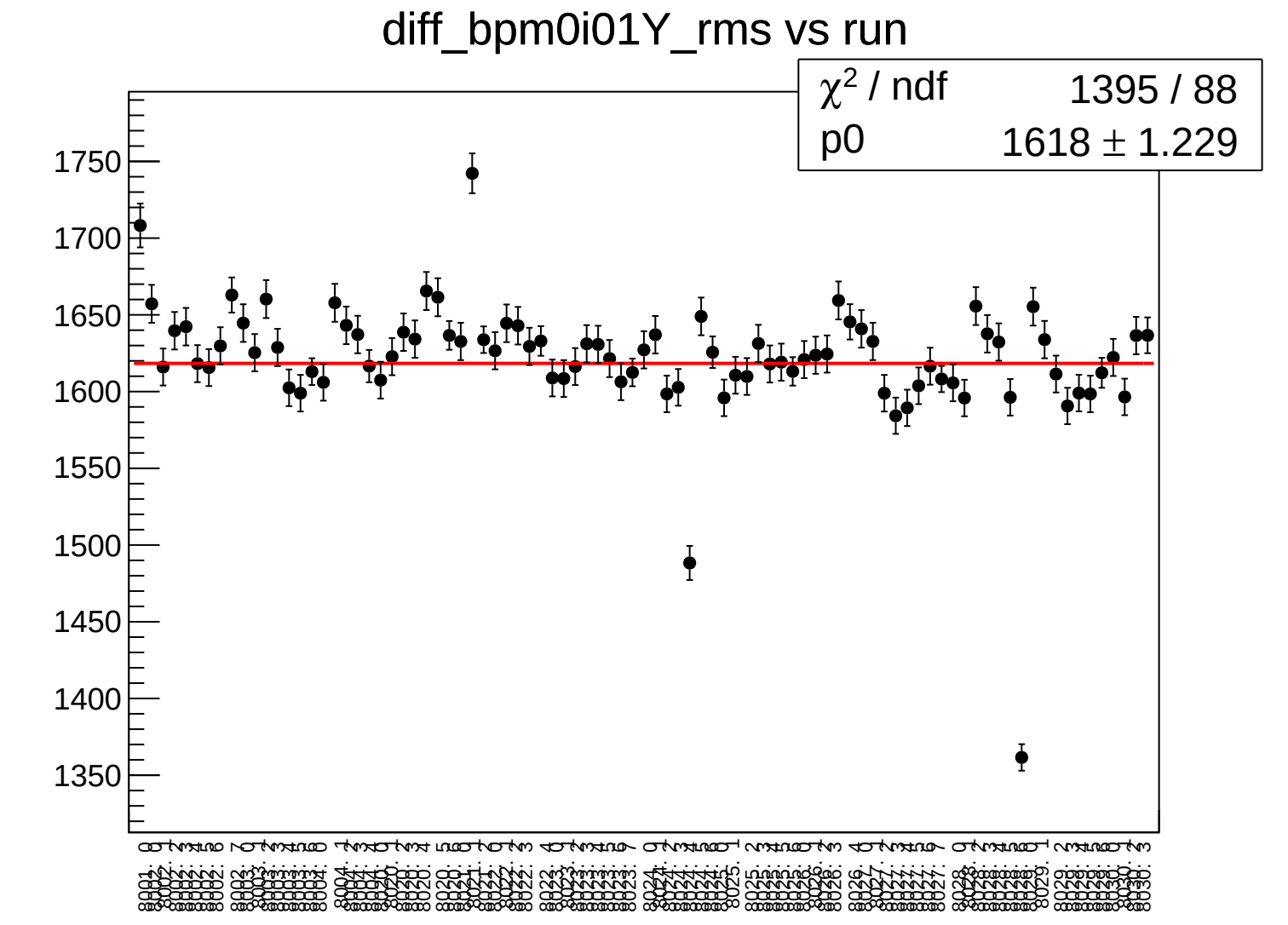

diff_bpm0i01X_mean vs run
χ² / ndf 94.99 / 88
p0 −35.77 ± 1.911
pull
Entries 89
Mean −95.07
Std Dev 0

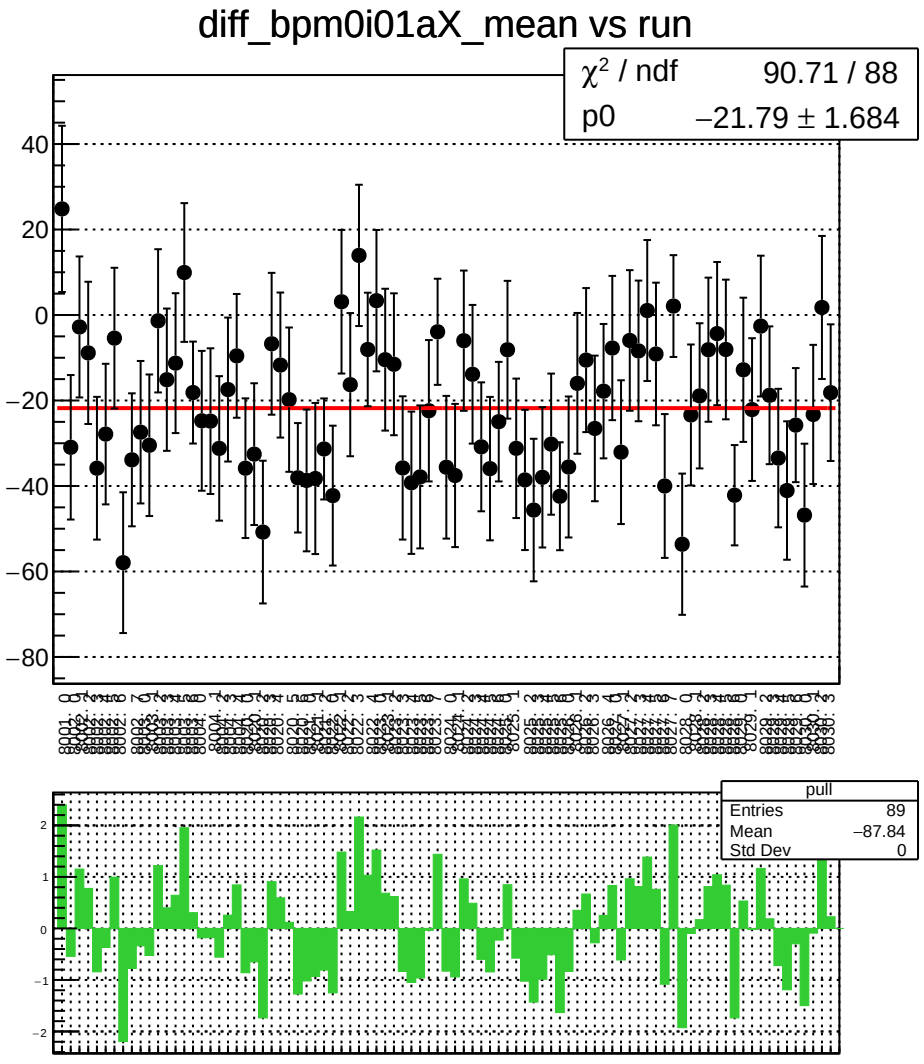

pull1D
Entries 89
Mean 0.007597
Std Dev 1.033

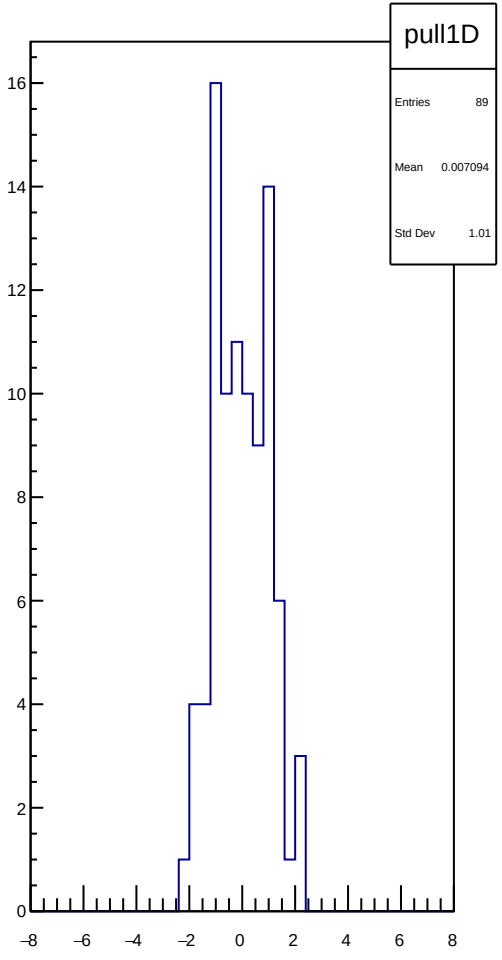

diff_bpm0i01X_rms vs run
χ² / ndf 1719 / 88
p0 1779 ± 1.351
1900
1800
1700
1600
1500

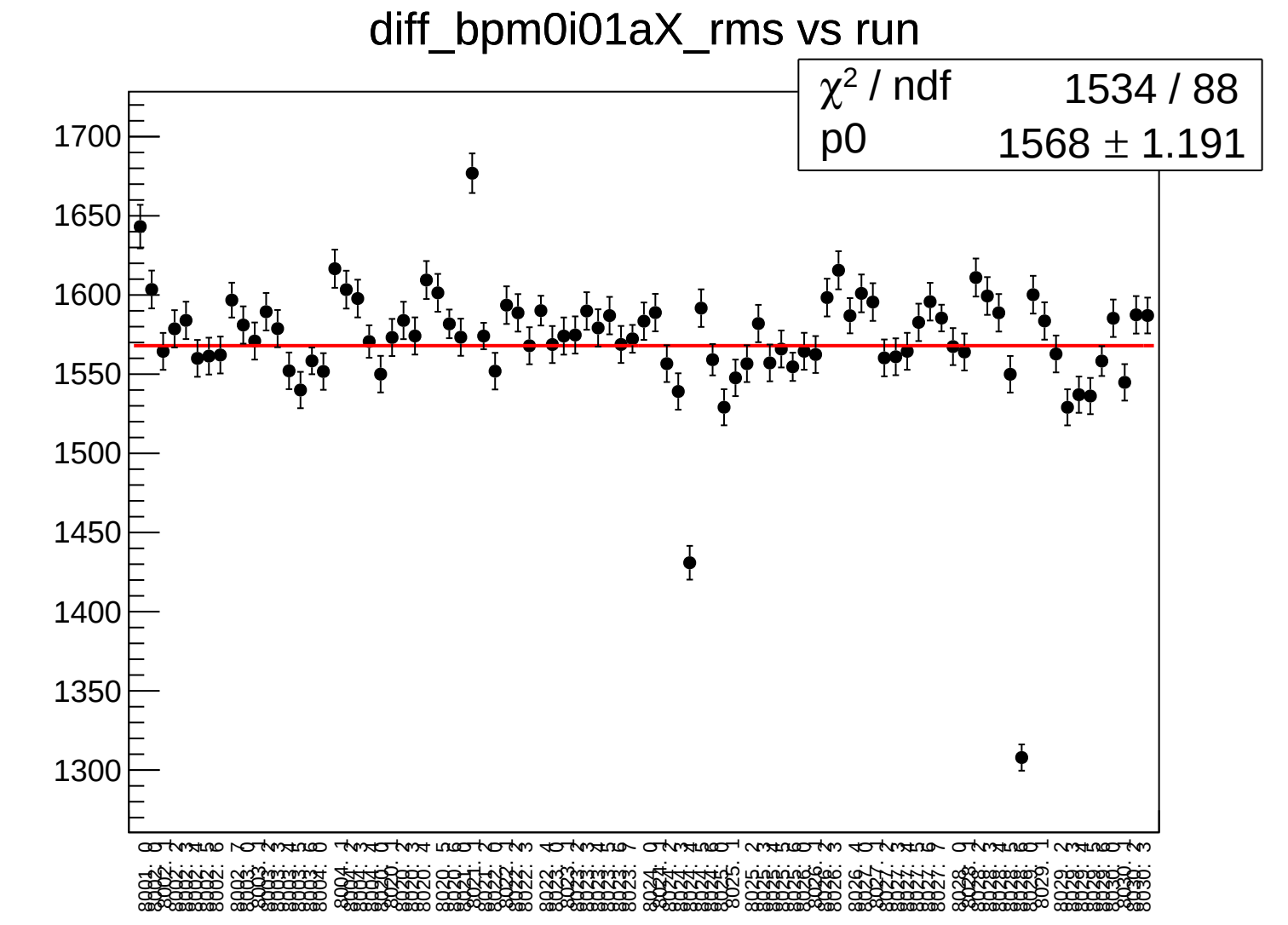

diff_bpm0i01Y_mean vs run
χ^2 / ndf 99.2 / 88
p0 3.819 ± 1.738
pull
Entries 89
Mean 1675
Std Dev 0

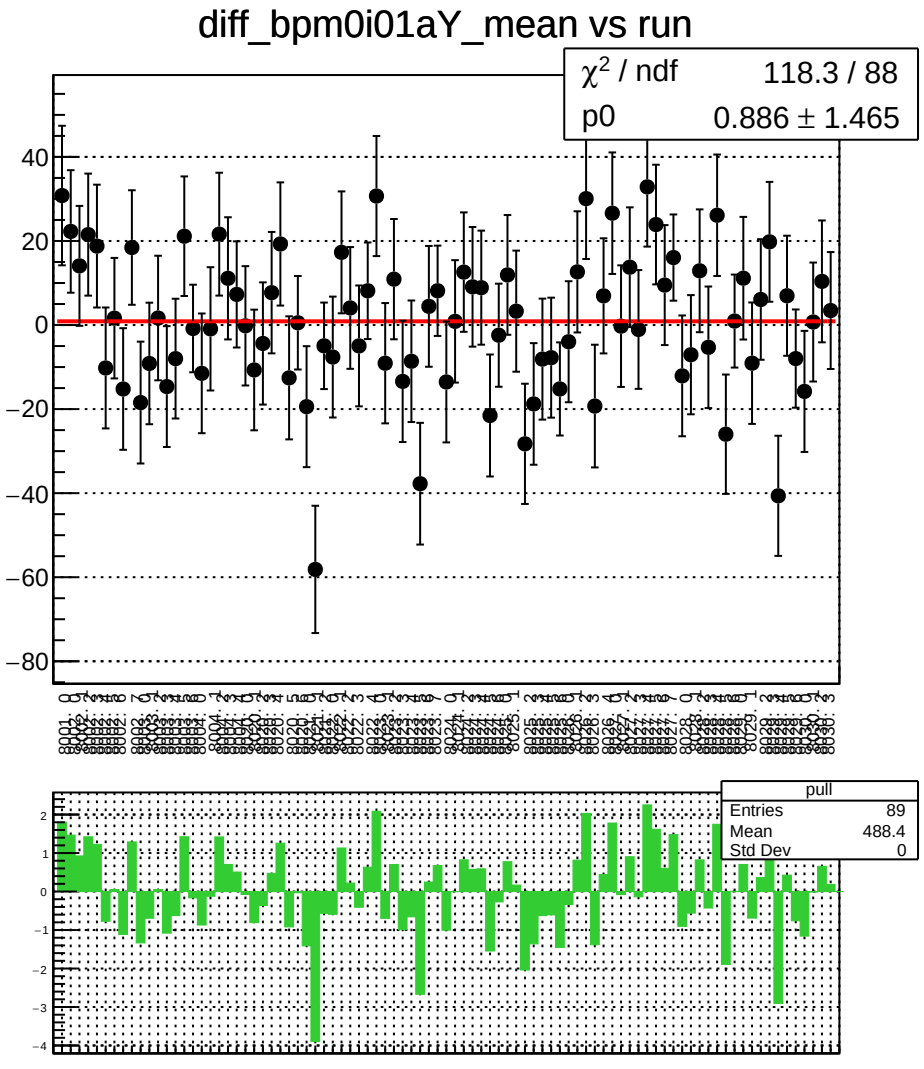

pull1D
Entries 89
Mean −0.002034
Std Dev 1.056

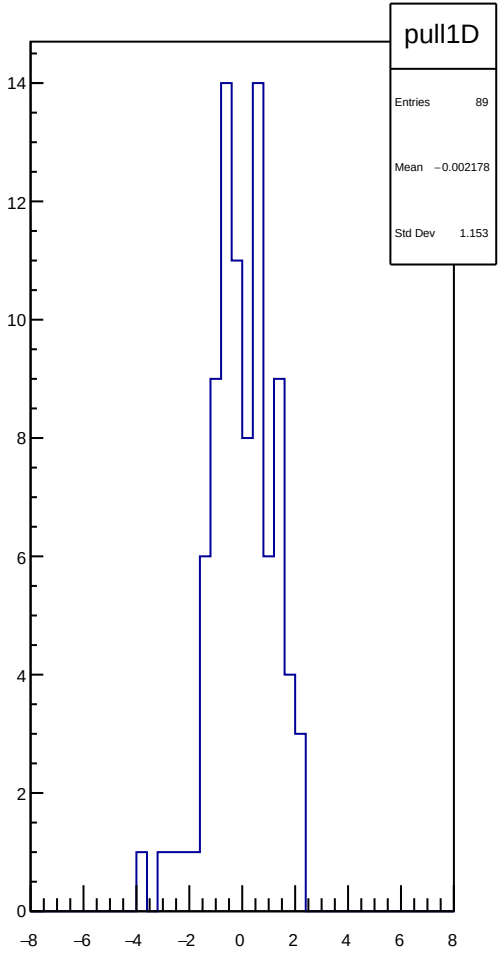

diff_bpm0i01Y_rms vs run
χ^2 / ndf 1395 / 88
p0 1618 ± 1.229
1750
1700
1650
1600
1550
1500
1450
1400
1350

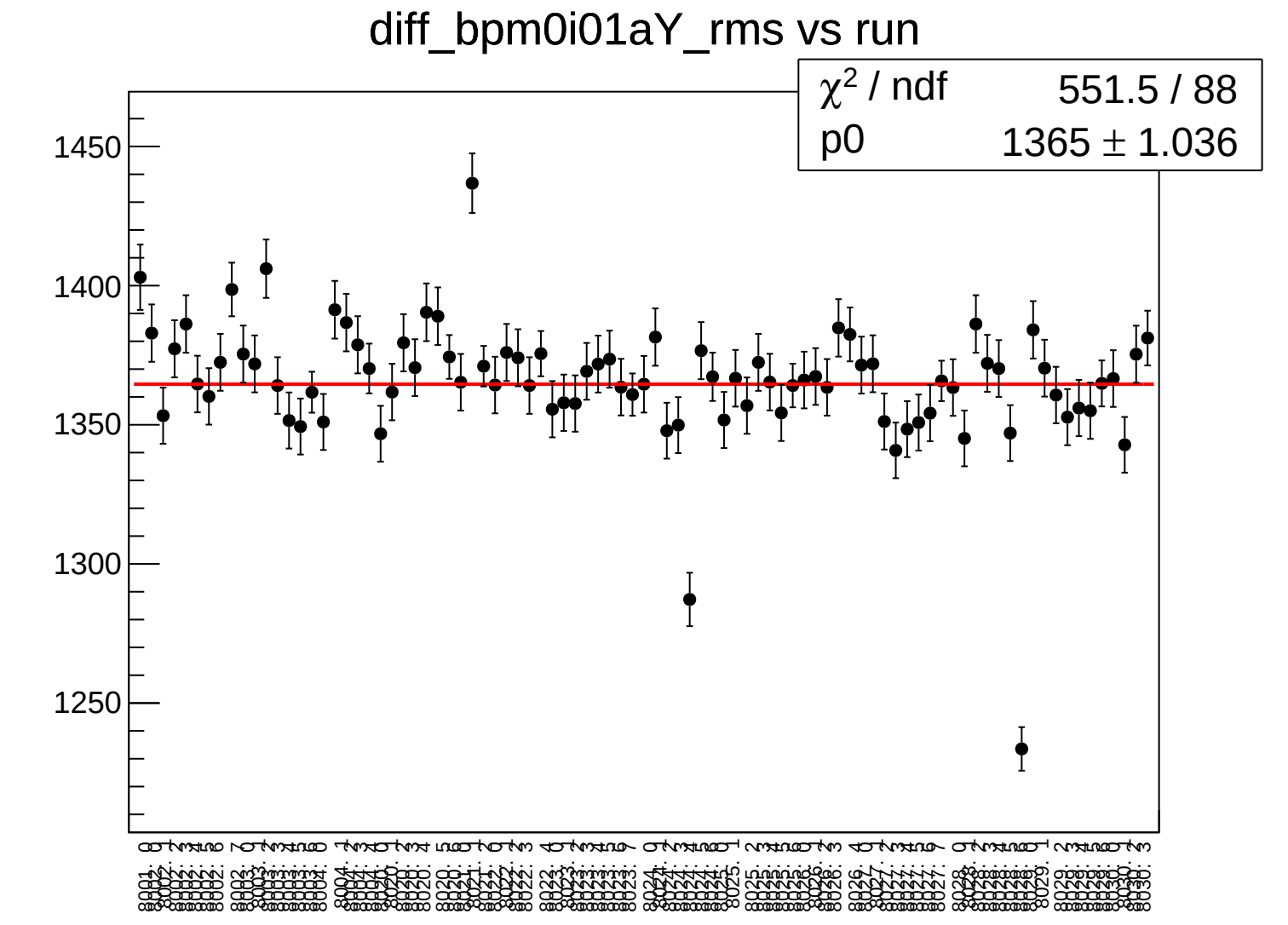

diff_bpm0i01aX_mean vs run
χ² / ndf 90.71 / 88
p0 −21.79 ± 1.684
pull
Entries 89
Mean −87.84
Std Dev 0

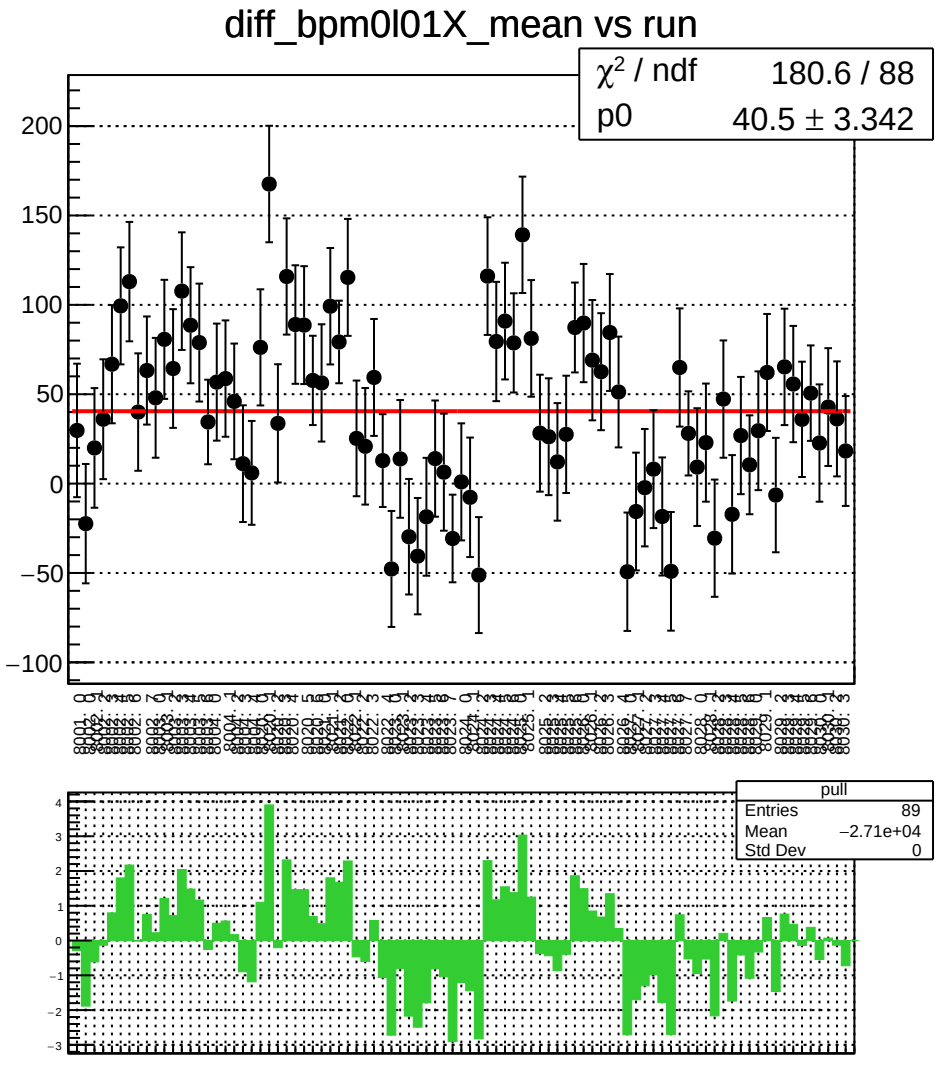

pull1D
Entries 89
Mean 0.007094
Std Dev 1.01

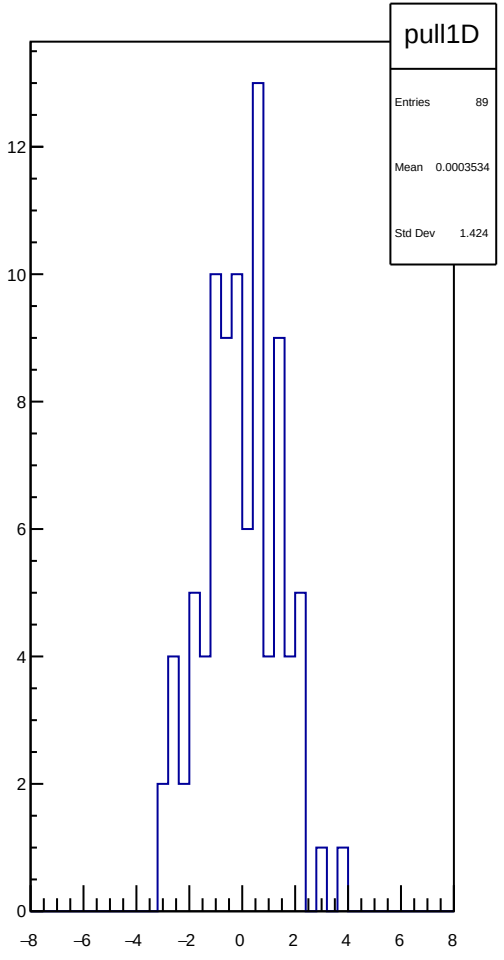

diff_bpm0i01aX_rms vs run
χ² / ndf 1534 / 88
p0 1568 ± 1.191
1700
1650
1600
1550
1500
1450
1400
1350
1300

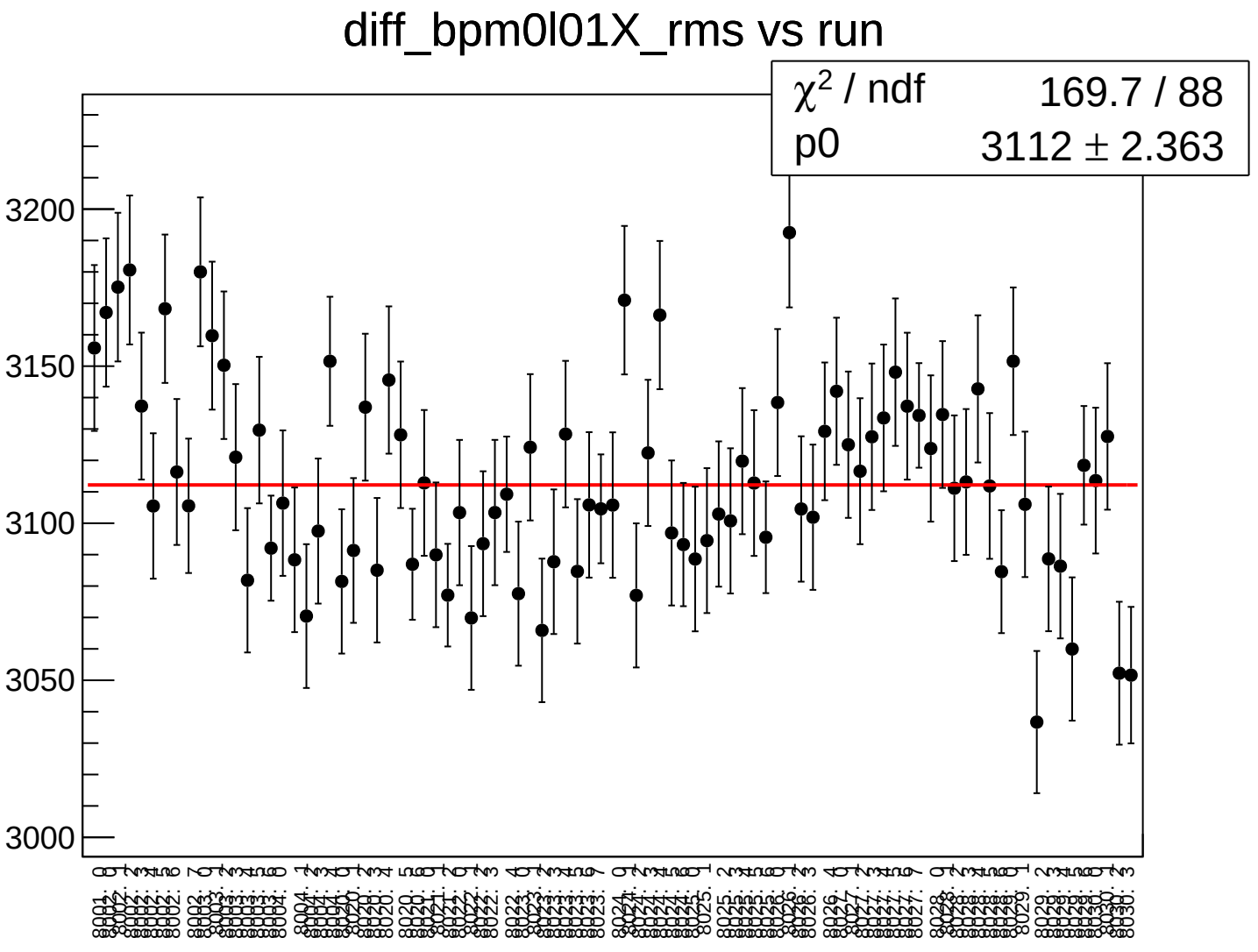

diff_bpm0i01aY_mean vs run
χ² / ndf 118.3 / 88
p0 0.886 ± 1.465
pull
Entries 89
Mean 488.4
Std Dev 0

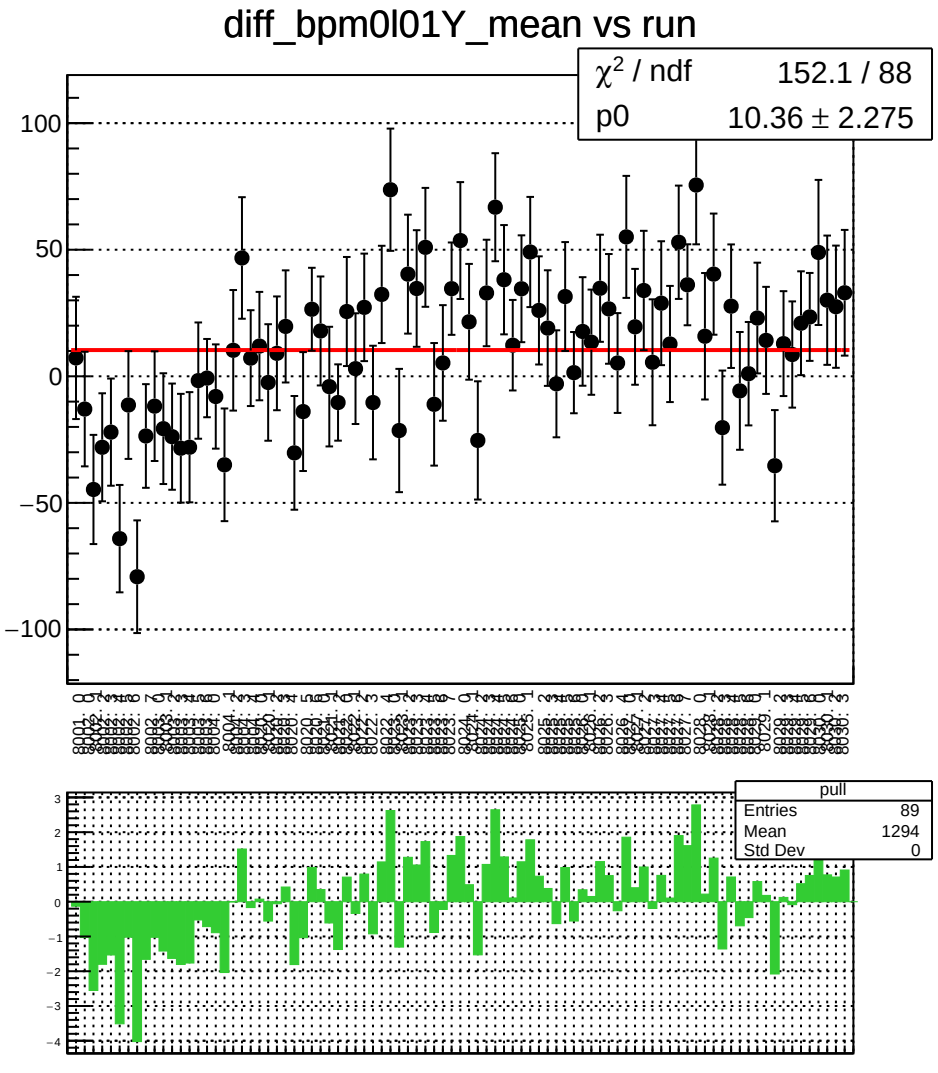

pull1D
Entries 89
Mean −0.002178
Std Dev 1.153

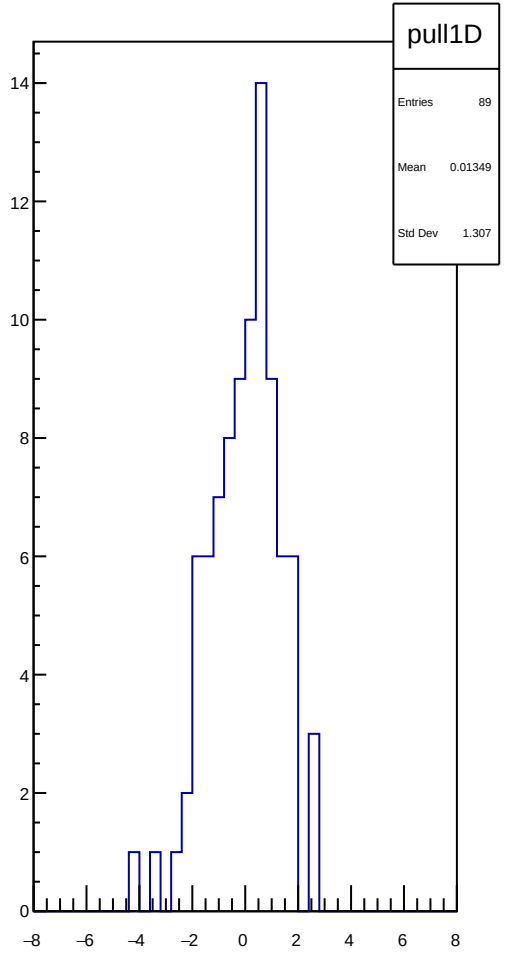

diff_bpm0i01aY_rms vs run
χ² / ndf 551.5 / 88
p0 1365 ± 1.036
1450
1400
1350
1300
1250

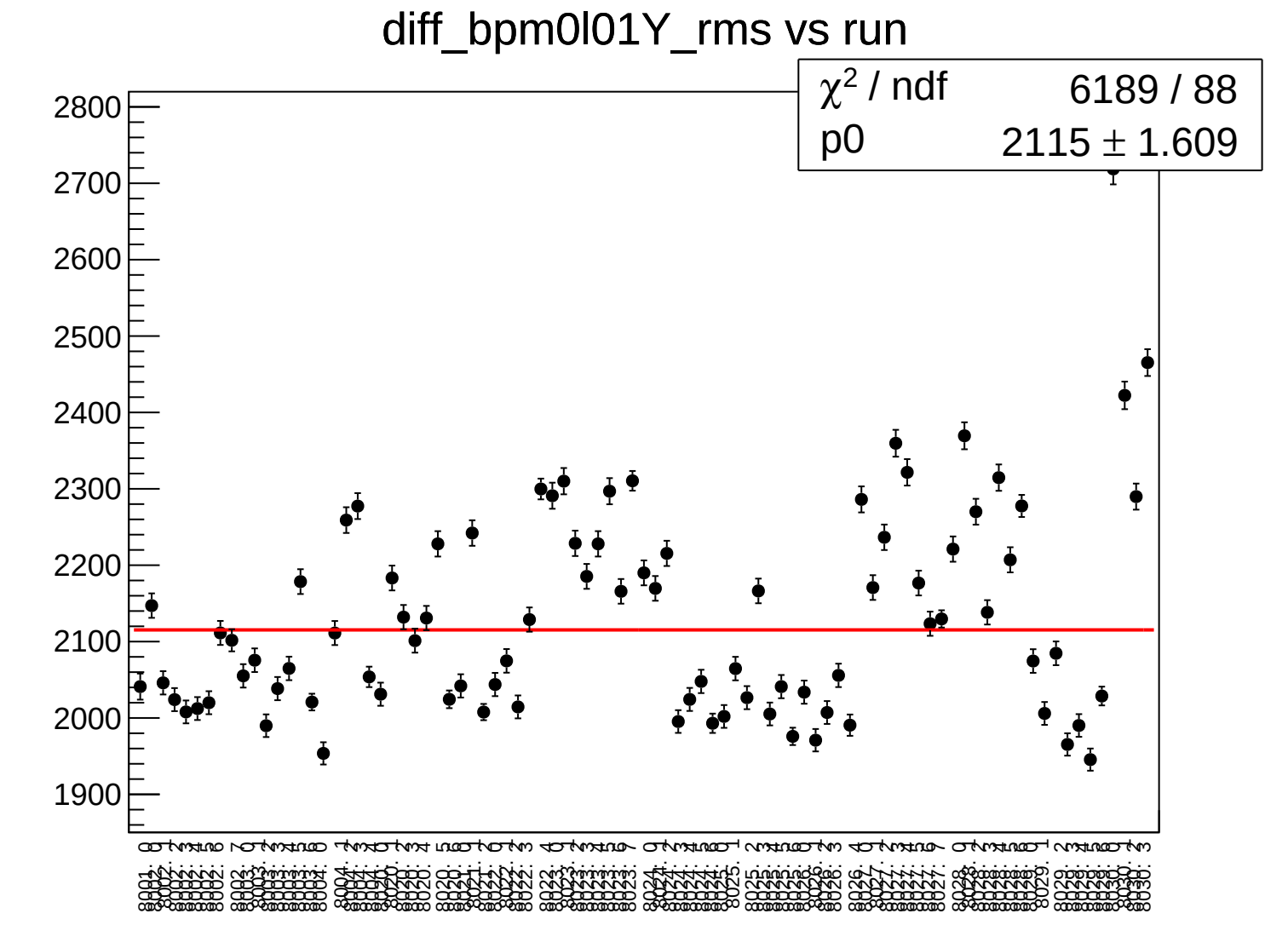

diff_bpm0l01X_mean vs run
χ² / ndf 180.6 / 88
p0 40.5 ± 3.342
pull
Entries 89
Mean −2.71e+04
Std Dev 0

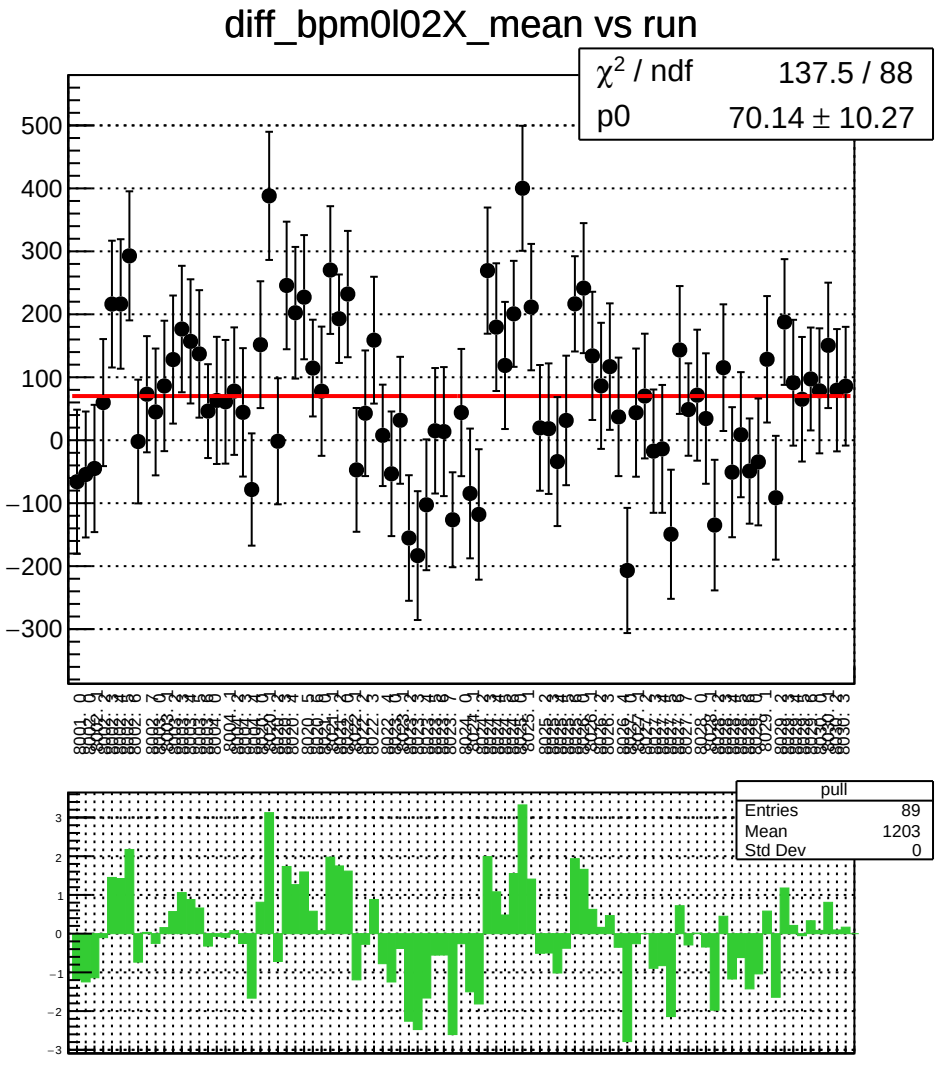

pull1D
Entries 89
Mean 0.0003534
Std Dev 1.424

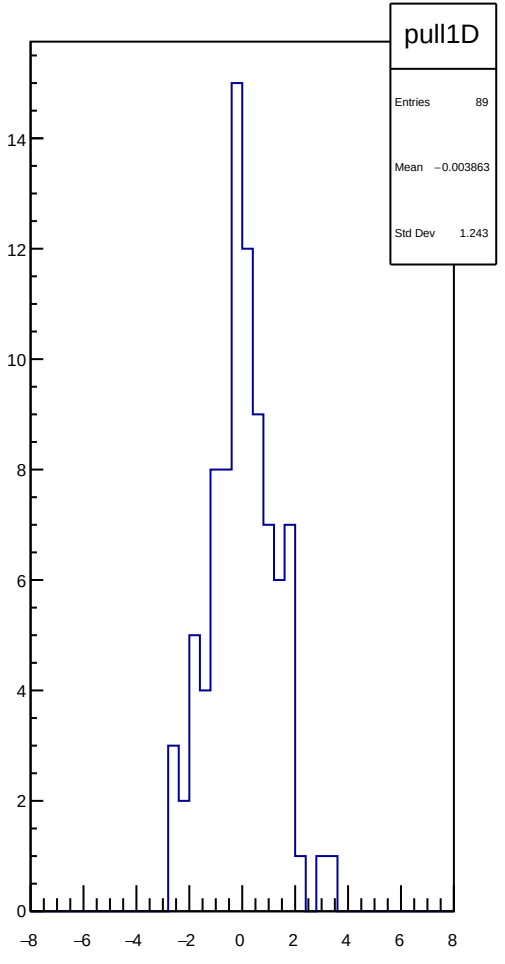

diff_bpm0l01X_rms vs run
χ² / ndf 169.7 / 88
p0 3112 ± 2.363
3200
3150
3100
3050
3000

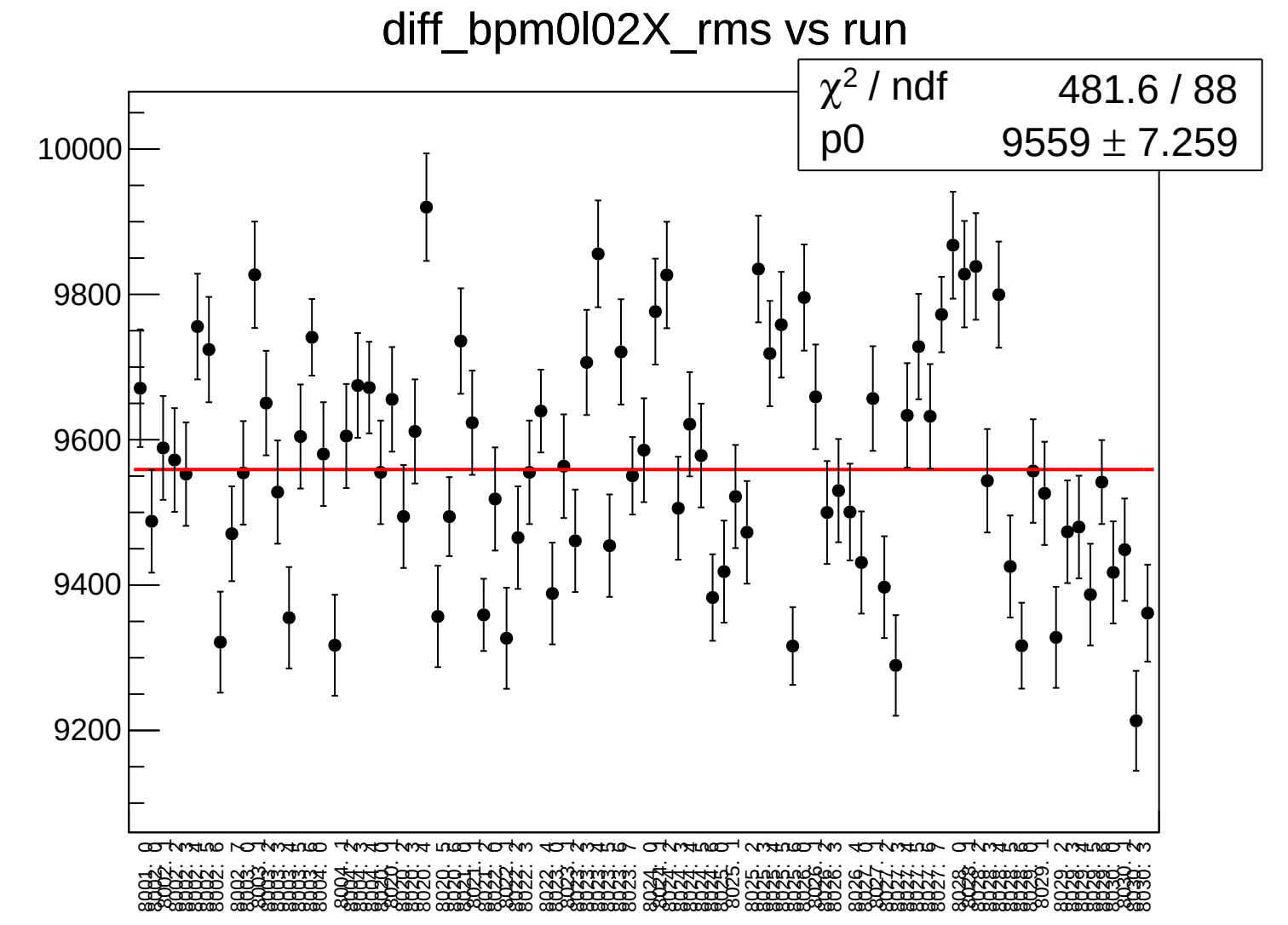

diff_bpm0l01Y_mean vs run
χ² / ndf 152.1 / 88
p0 10.36 ± 2.275
100
50
0
−50
−100
pull
Entries 89
Mean 1294
Std Dev 0
3
2
1
0
−1
−2
−3
−4

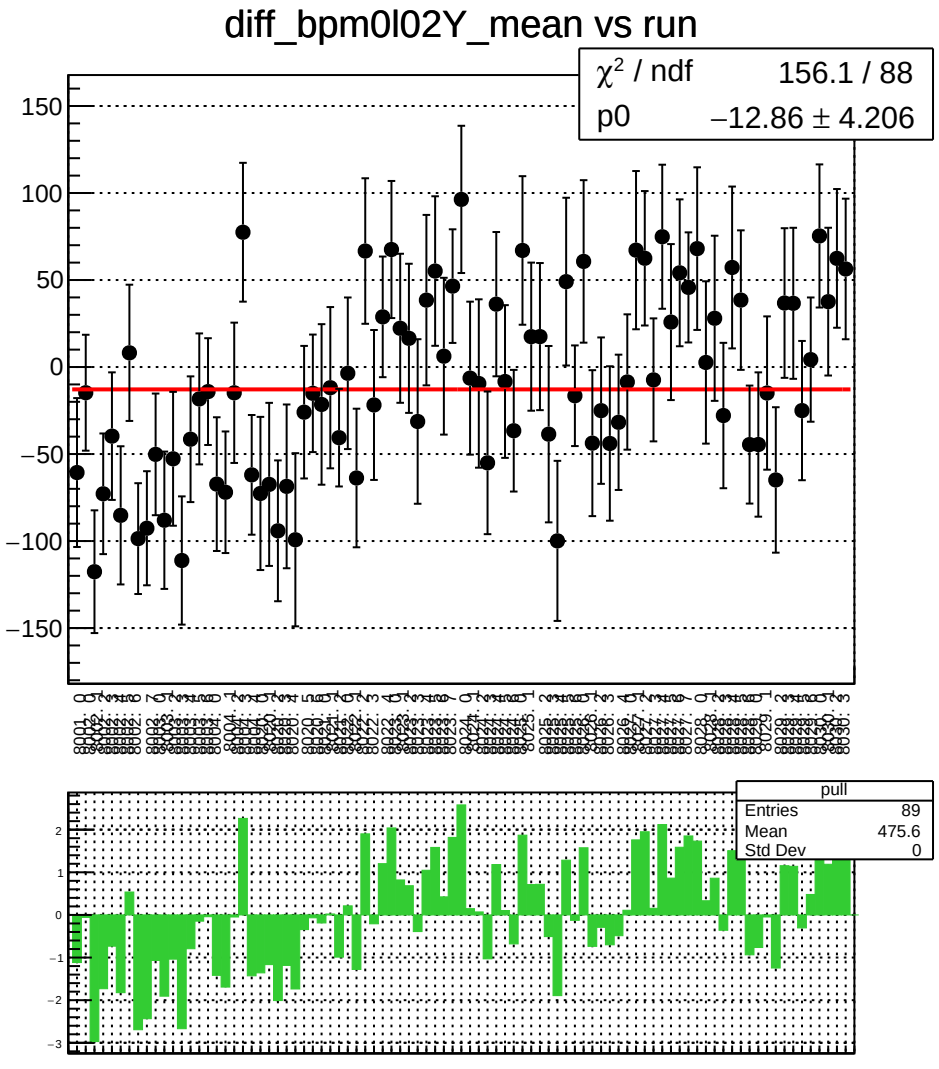

pull1D
Entries 89
Mean 0.01349
Std Dev 1.307
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

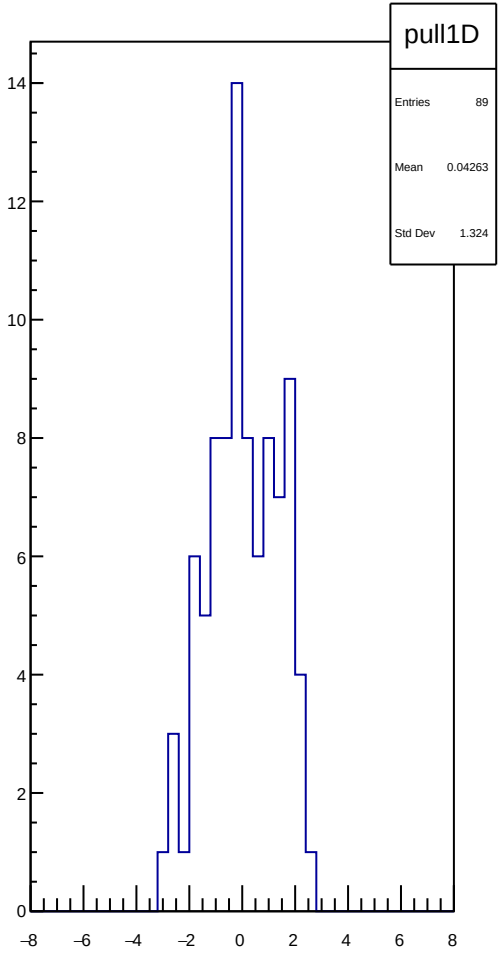

diff_bpm0l01Y_rms vs run
χ² / ndf 6189 / 88
p0 2115 ± 1.609
2800
2700
2600
2500
2400
2300
2200
2100
2000
1900

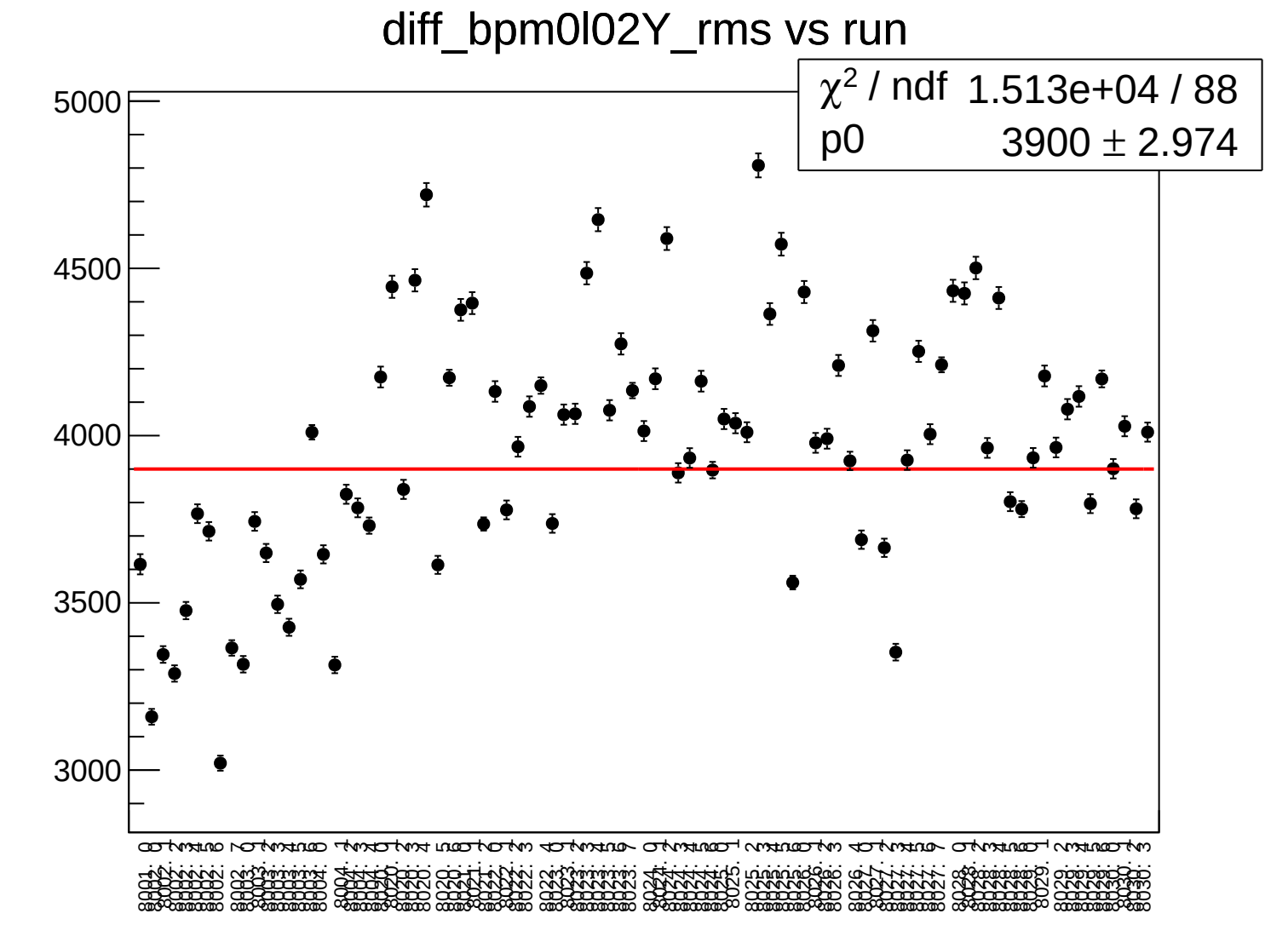

diff_bpm0l02X_mean vs run
χ^2 / ndf 137.5 / 88
p0 70.14 ± 10.27
pull
Entries 89
Mean 1203
Std Dev 0

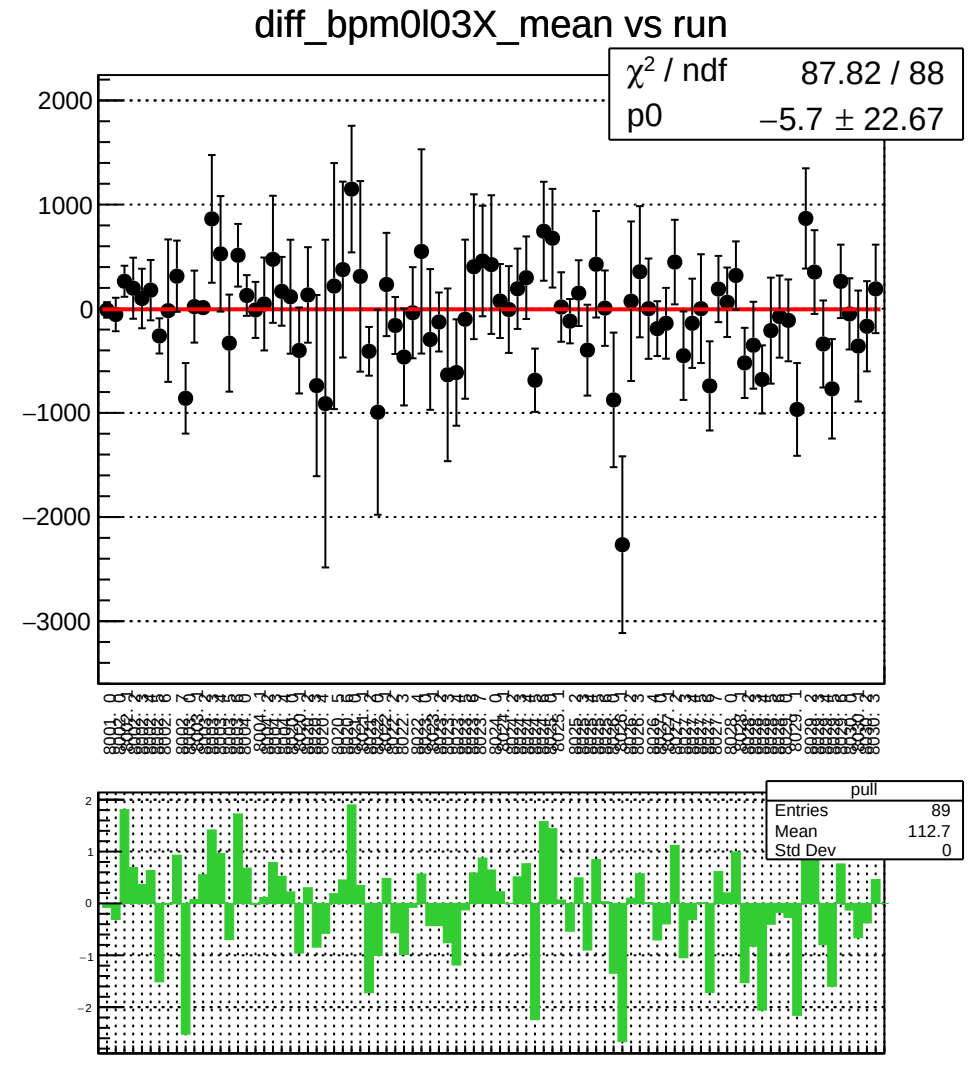

pull1D
Entries 89
Mean −0.003863
Std Dev 1.243

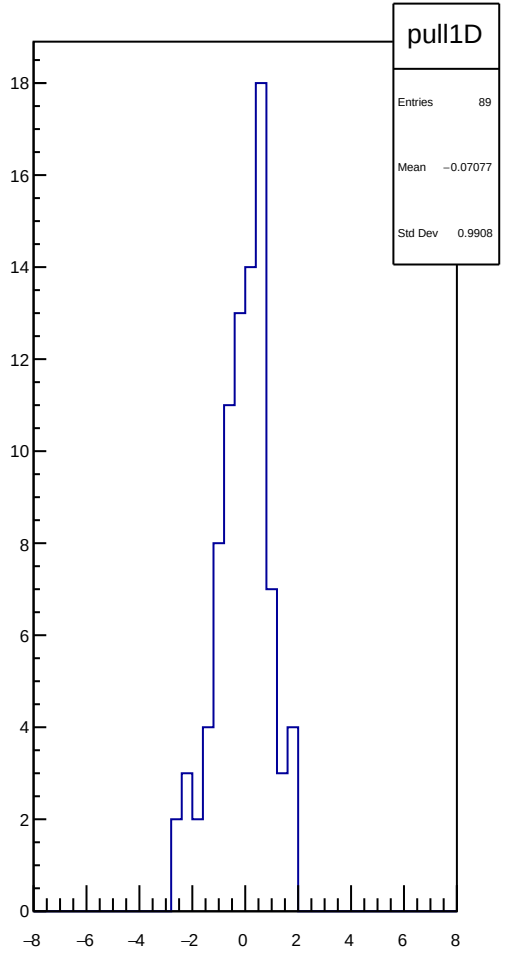

diff_bpm0l02X_rms vs run
χ^2 / ndf 481.6 / 88
p0 9559 ± 7.259
10000
9800
9600
9400
9200

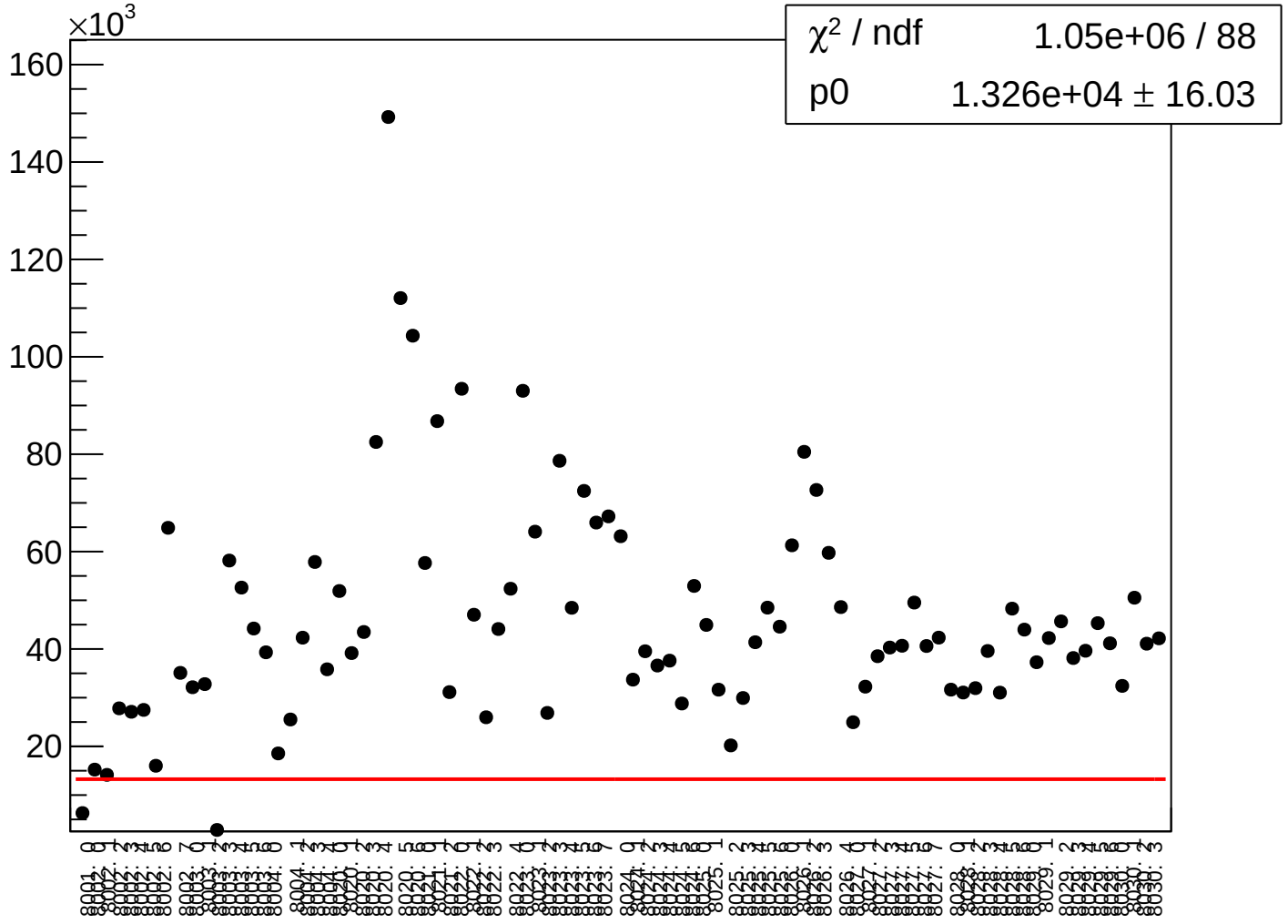

diff_bpm0l02Y_mean vs run
χ² / ndf 156.1 / 88
p0 −12.86 ± 4.206
pull
Entries 89
Mean 475.6
Std Dev 0

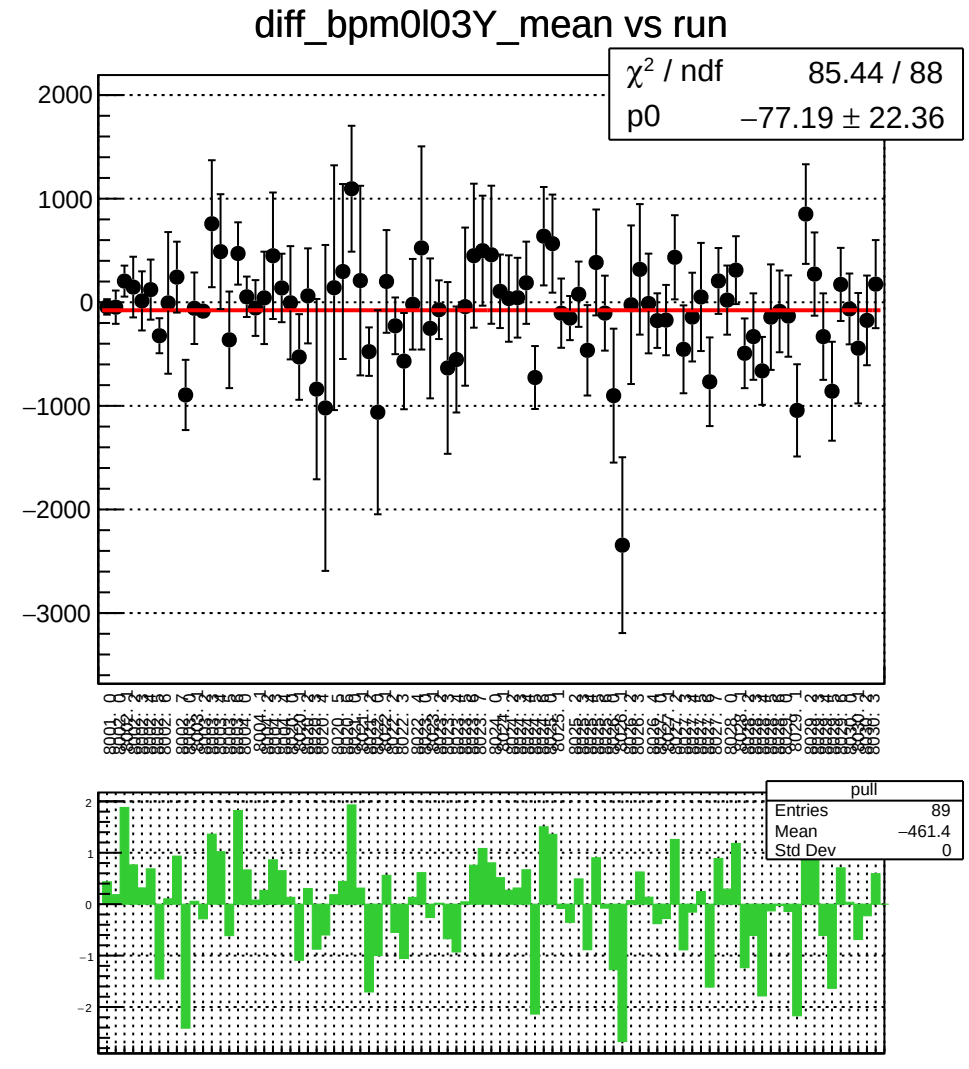

pull1D
Entries 89
Mean 0.04263
Std Dev 1.324

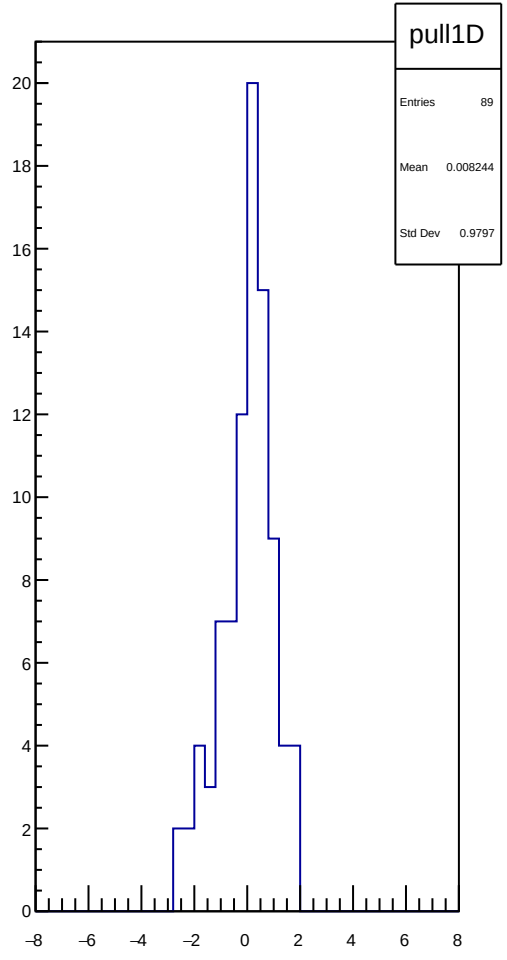

diff_bpm0l02Y_rms vs run
χ² / ndf 1.513e+04 / 88
p0 3900 ± 2.974
5000
4500
4000
3500
3000

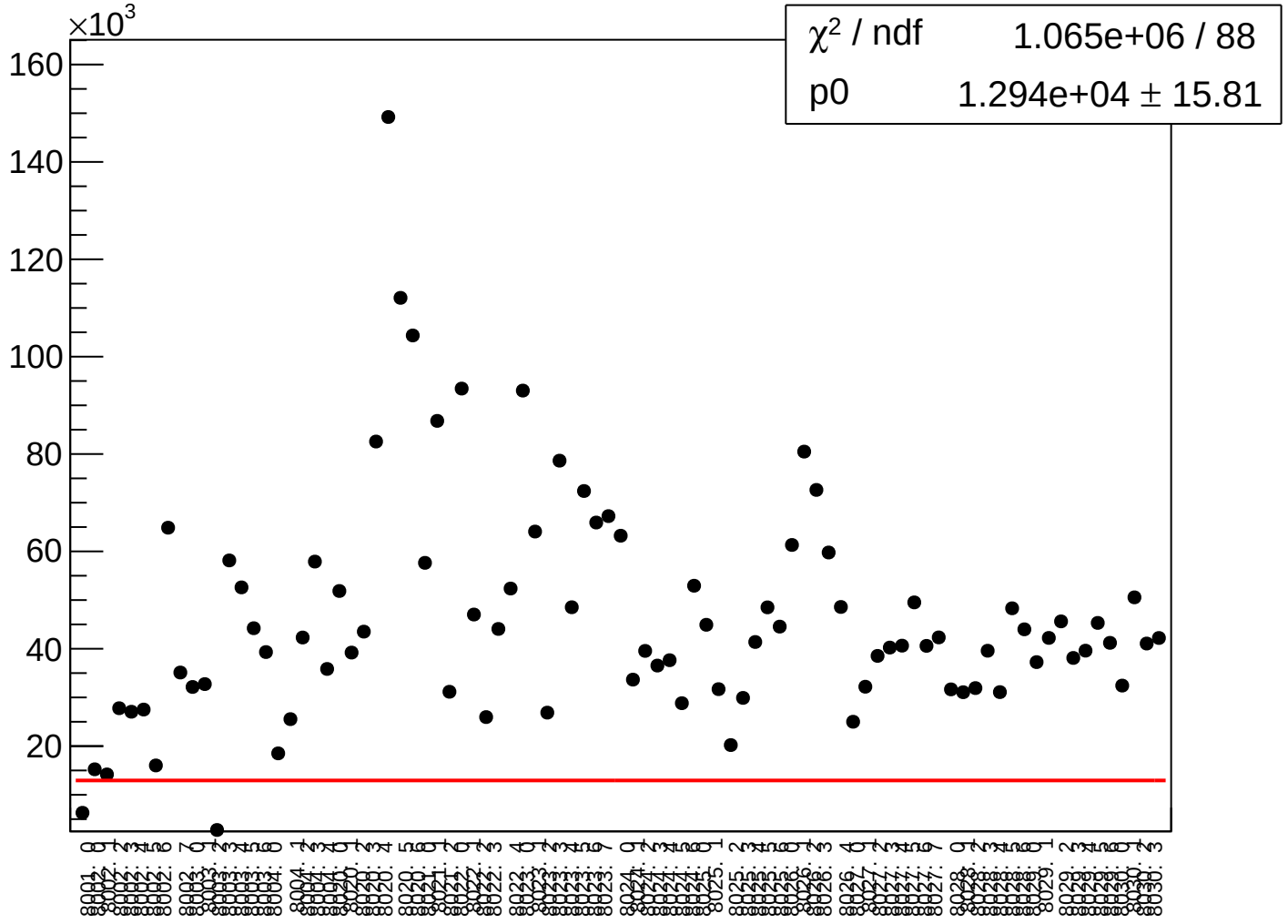

diff_bpm0l03X_mean vs run
χ² / ndf 87.82 / 88
p0 −5.7 ± 22.67
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean 112.7
Std Dev 0
2
1
0
−1
−2

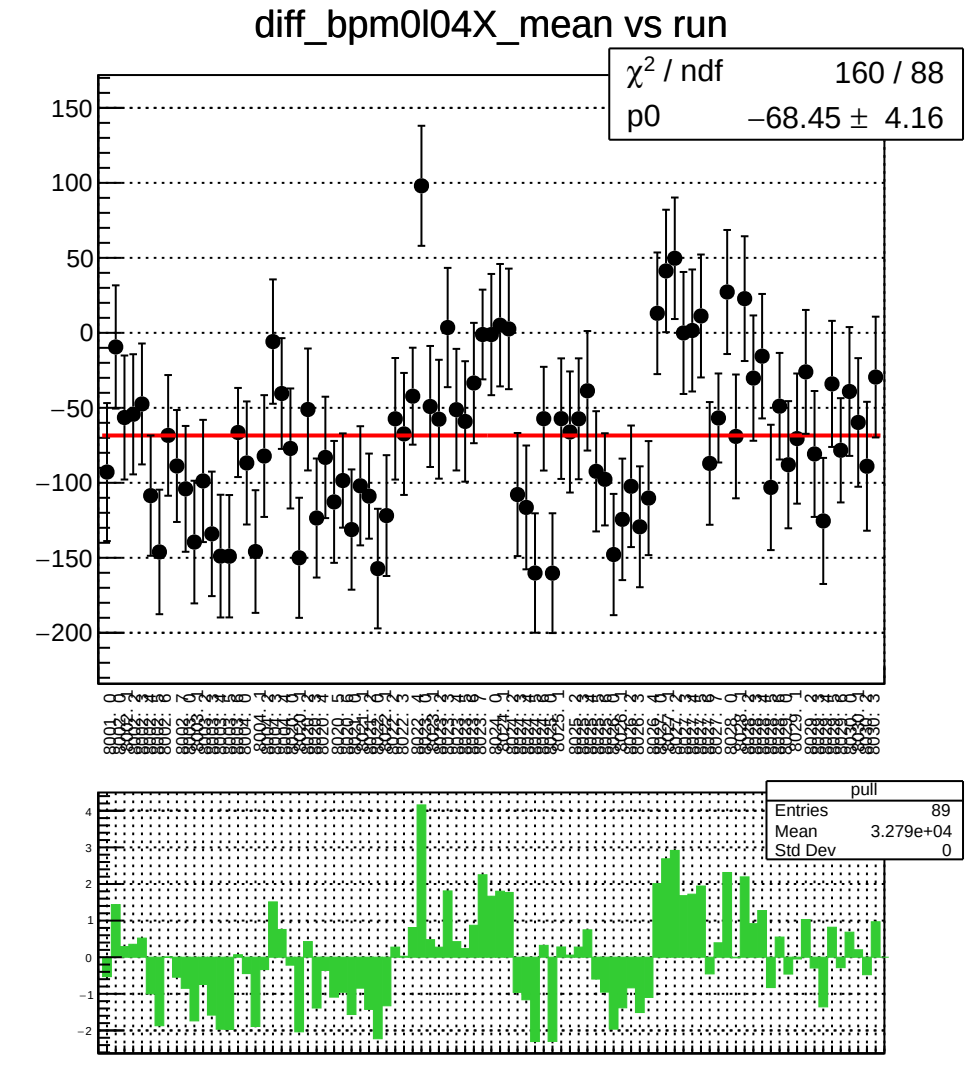

pull1D
Entries 89
Mean −0.07077
Std Dev 0.9908
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

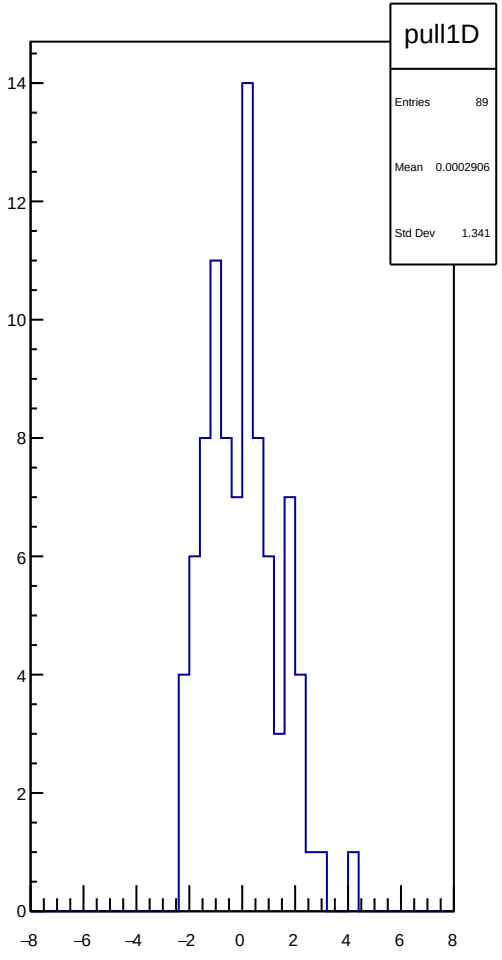

diff_bpm0l03X_rms vs run
×10^3
χ² / ndf 1.05e+06 / 88
p0 1.326e+04 ± 16.03
160
140
120
100
80
60
40
20

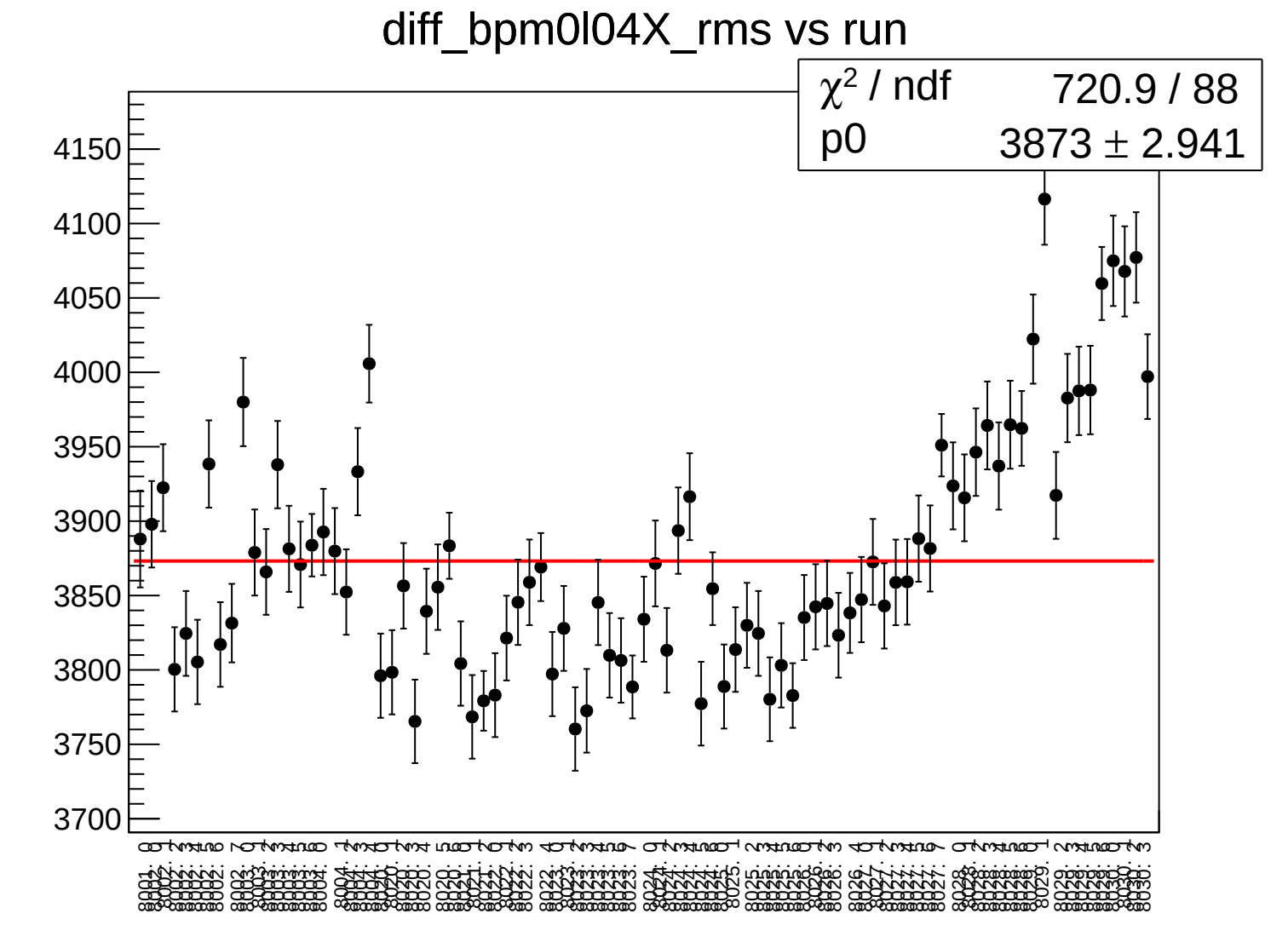

diff_bpm0l03Y_mean vs run
χ² / ndf 85.44 / 88
p0 −77.19 ± 22.36
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean −461.4
Std Dev 0
2
1
0
−1
−2

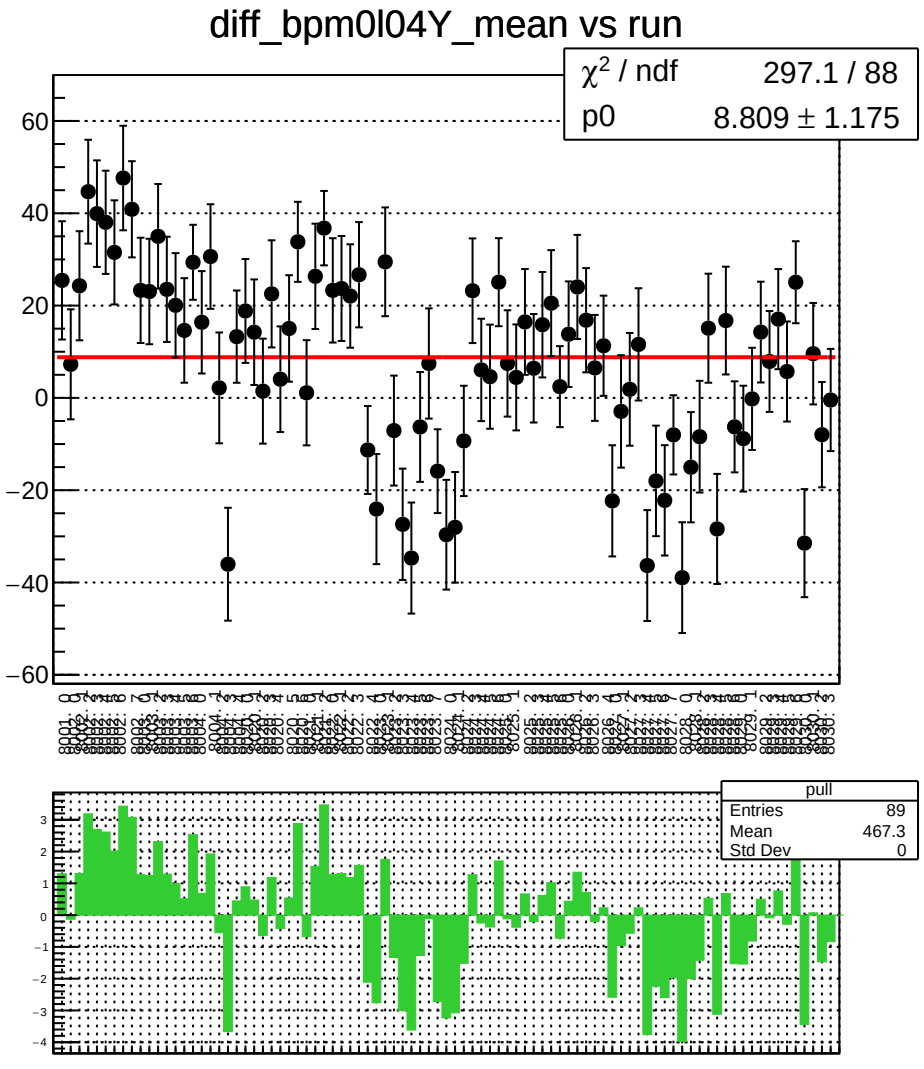

pull1D
Entries 89
Mean 0.008244
Std Dev 0.9797
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

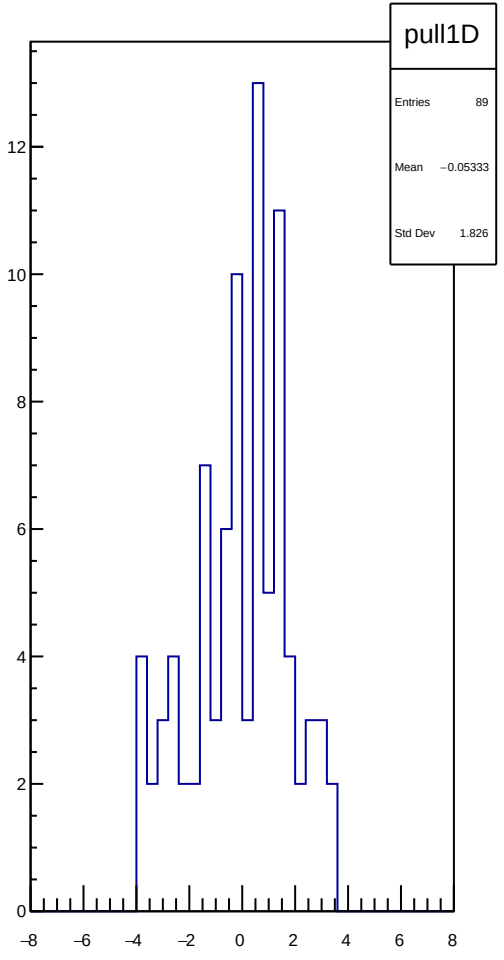

diff_bpm0l03Y_rms vs run
×10^3
χ² / ndf 1.065e+06 / 88
p0 1.294e+04 ± 15.81
160
140
120
100
80
60
40
20

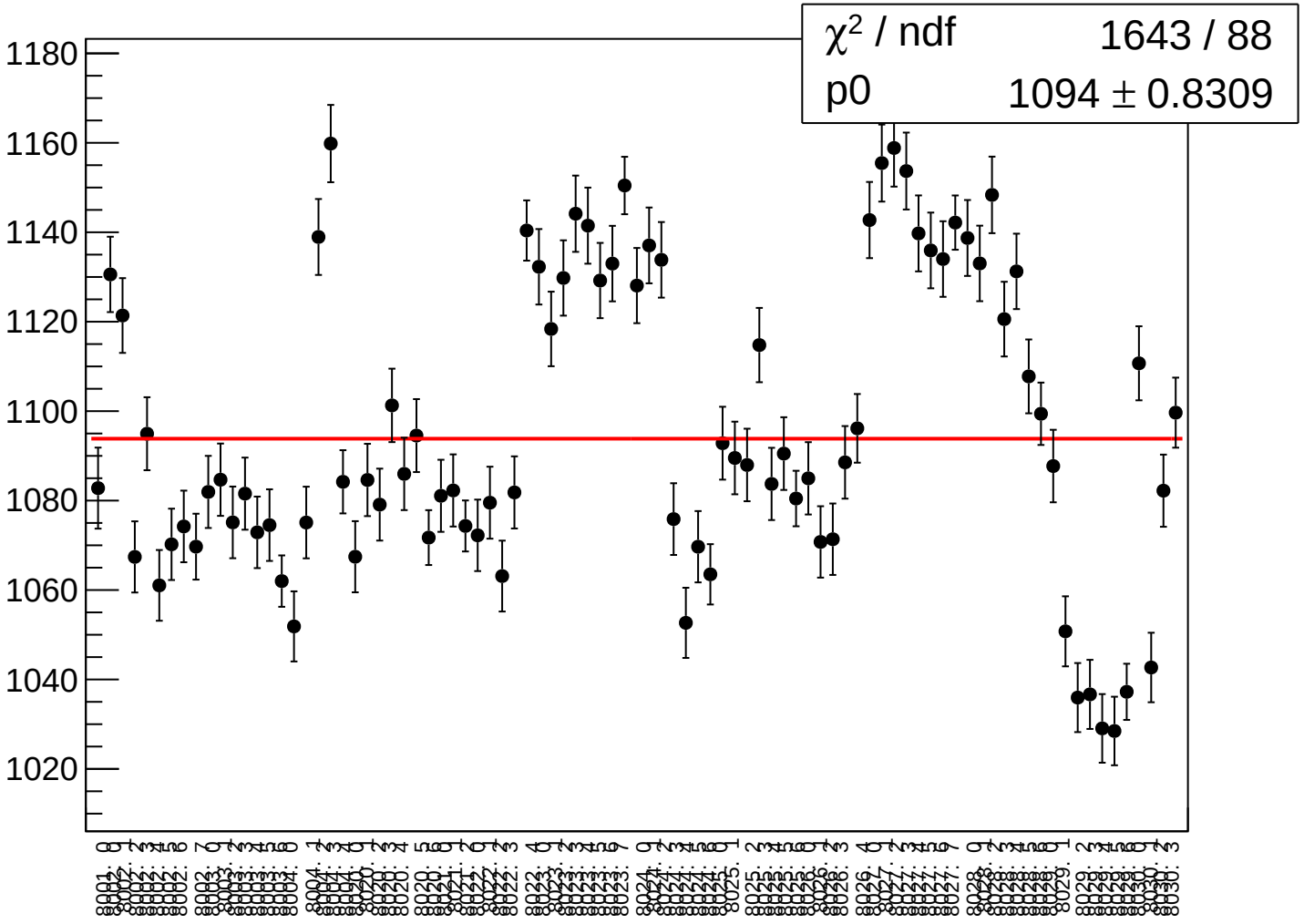

diff_bpm0l04X_mean vs run
χ² / ndf 160 / 88
p0 −68.45 ± 4.16
pull
Entries 89
Mean 3.279e+04
Std Dev 0

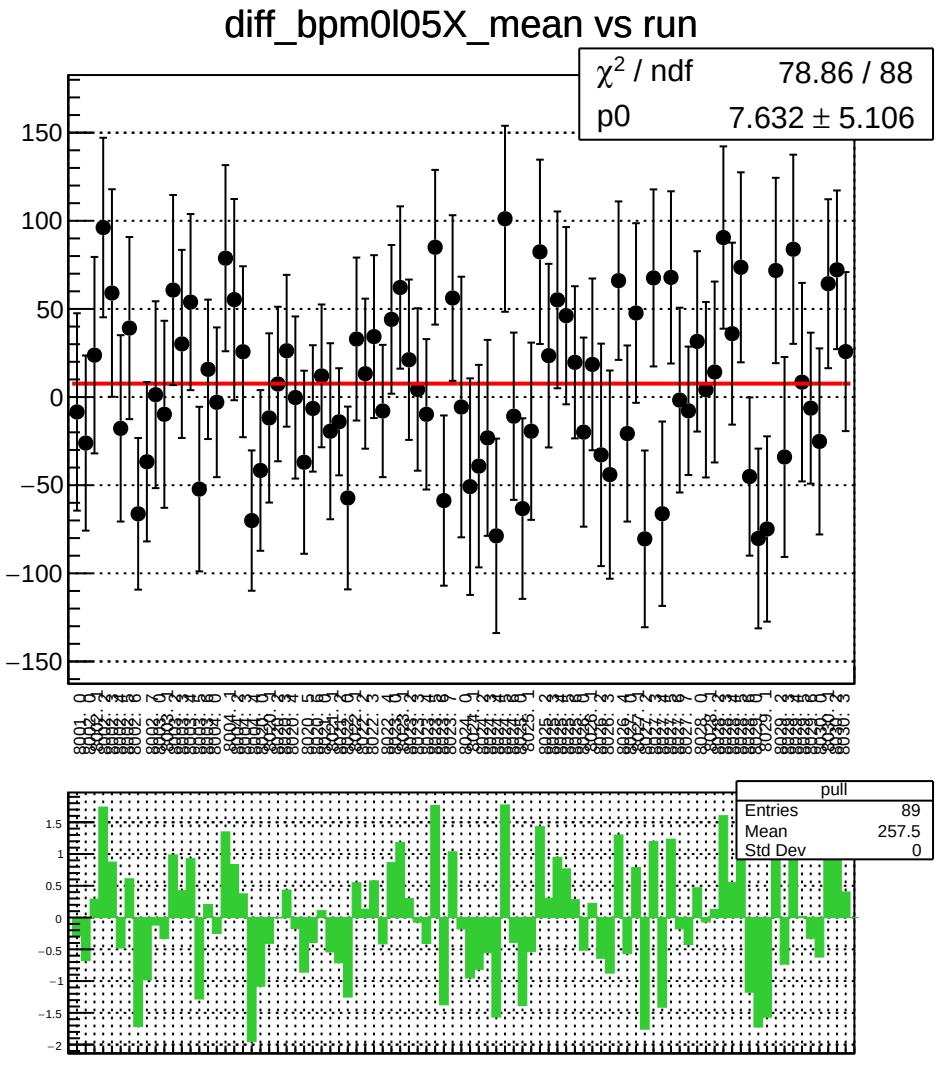

pull1D
Entries 89
Mean 0.0002906
Std Dev 1.341

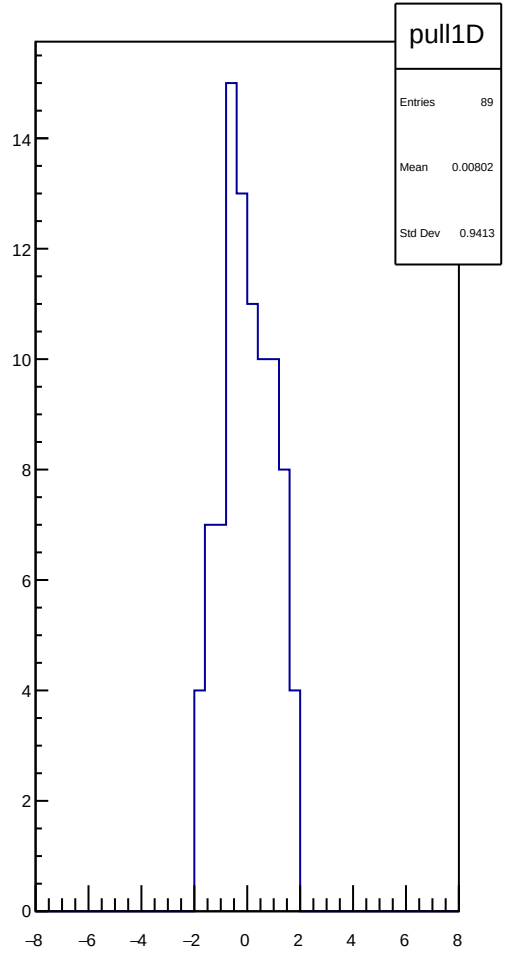

diff_bpm0l04X_rms vs run
χ² / ndf 720.9 / 88
p0 3873 ± 2.941
4150
4100
4050
4000
3950
3900
3850
3800
3750
3700

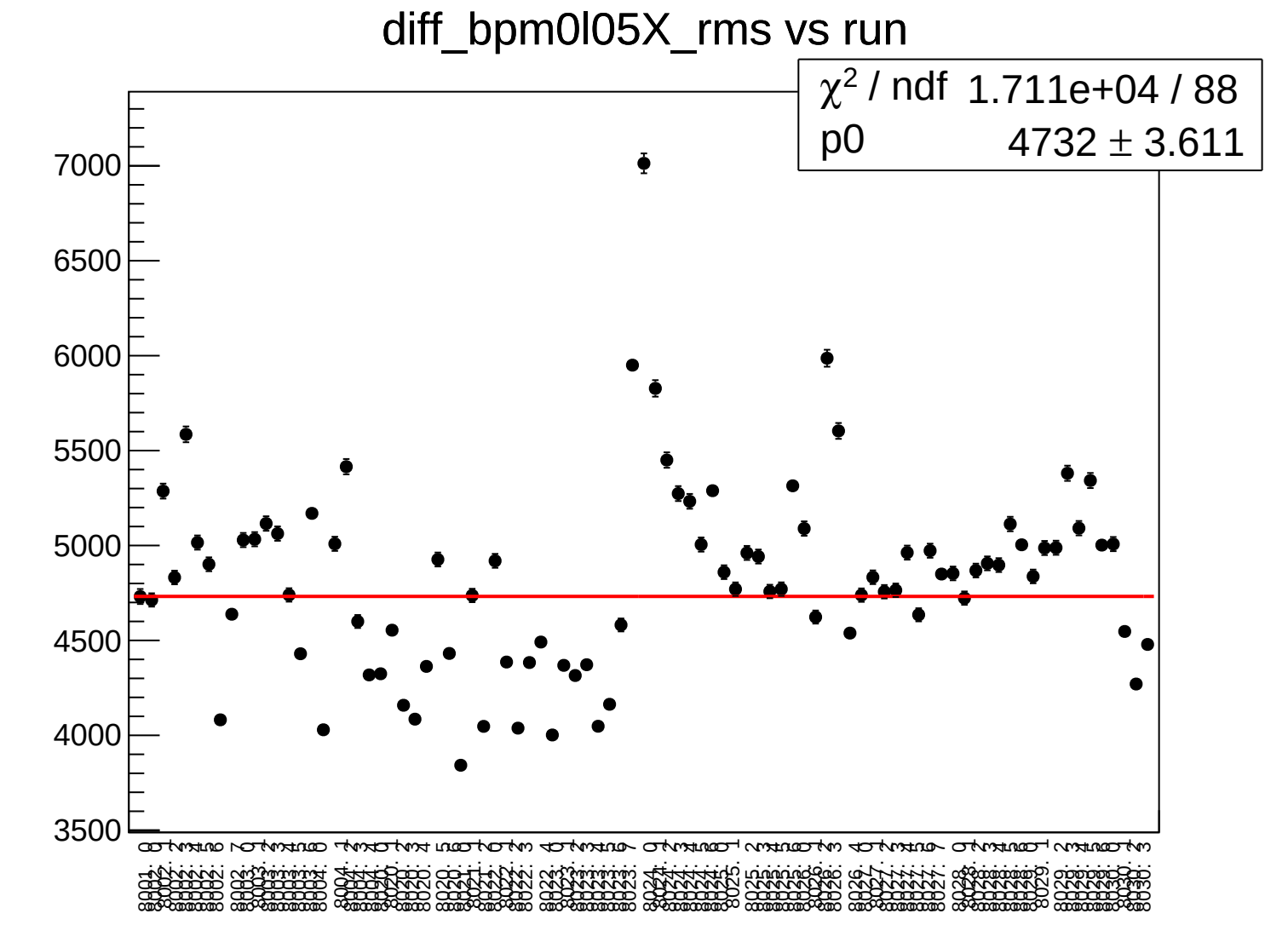

diff_bpm0l04Y_mean vs run
χ^2 / ndf 297.1 / 88
p0 8.809 ± 1.175
pull
Entries 89
Mean 467.3
Std Dev 0

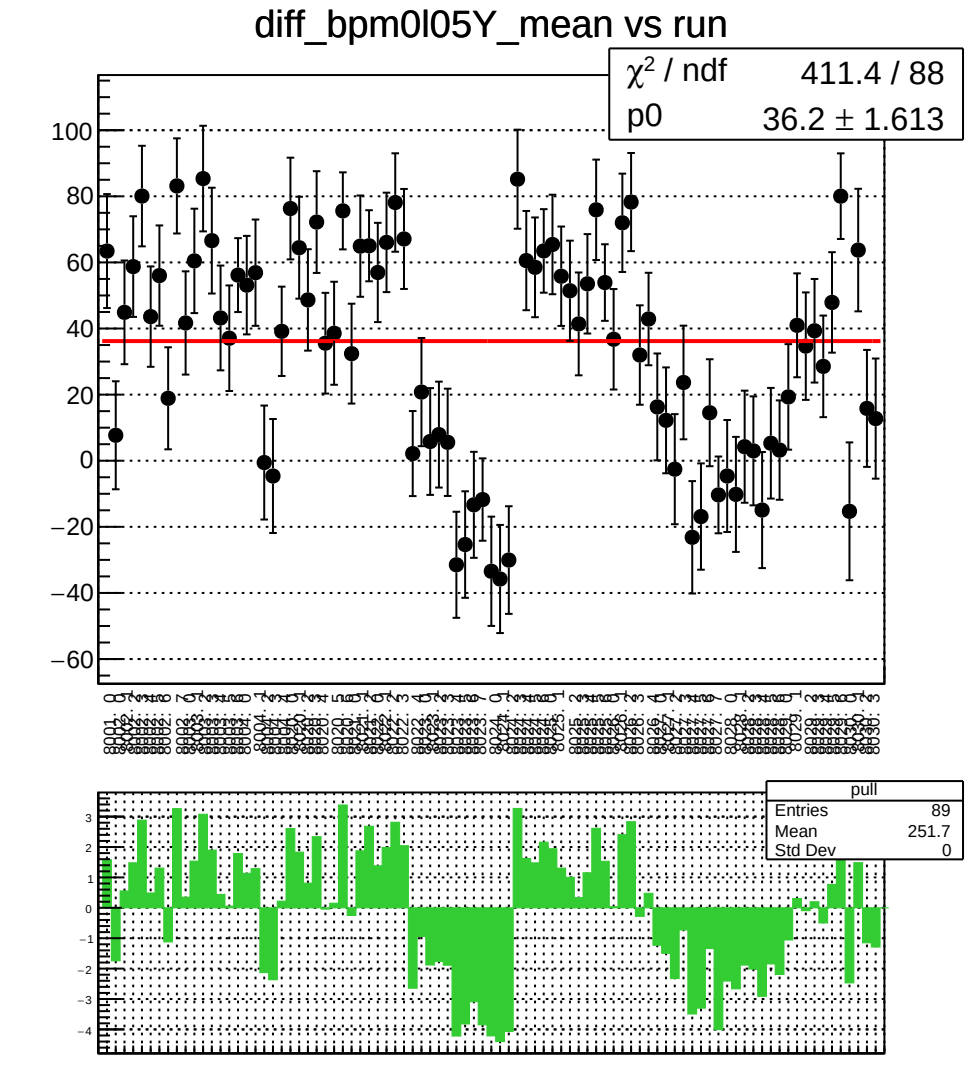

pull1D
Entries 89
Mean −0.05333
Std Dev 1.826

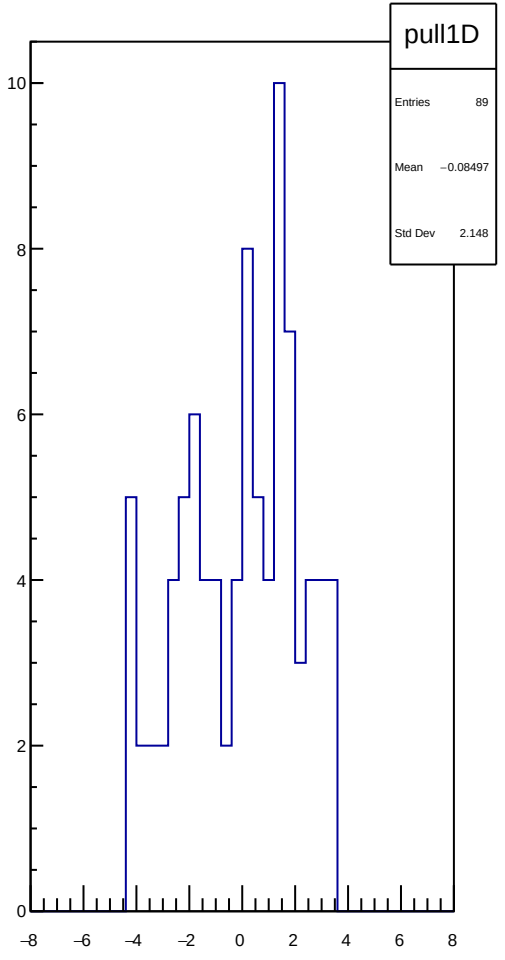

diff_bpm0l04Y_rms vs run
χ² / ndf 1643 / 88
p0 1094 ± 0.8309
1180
1160
1140
1120
1100
1080
1060
1040
1020

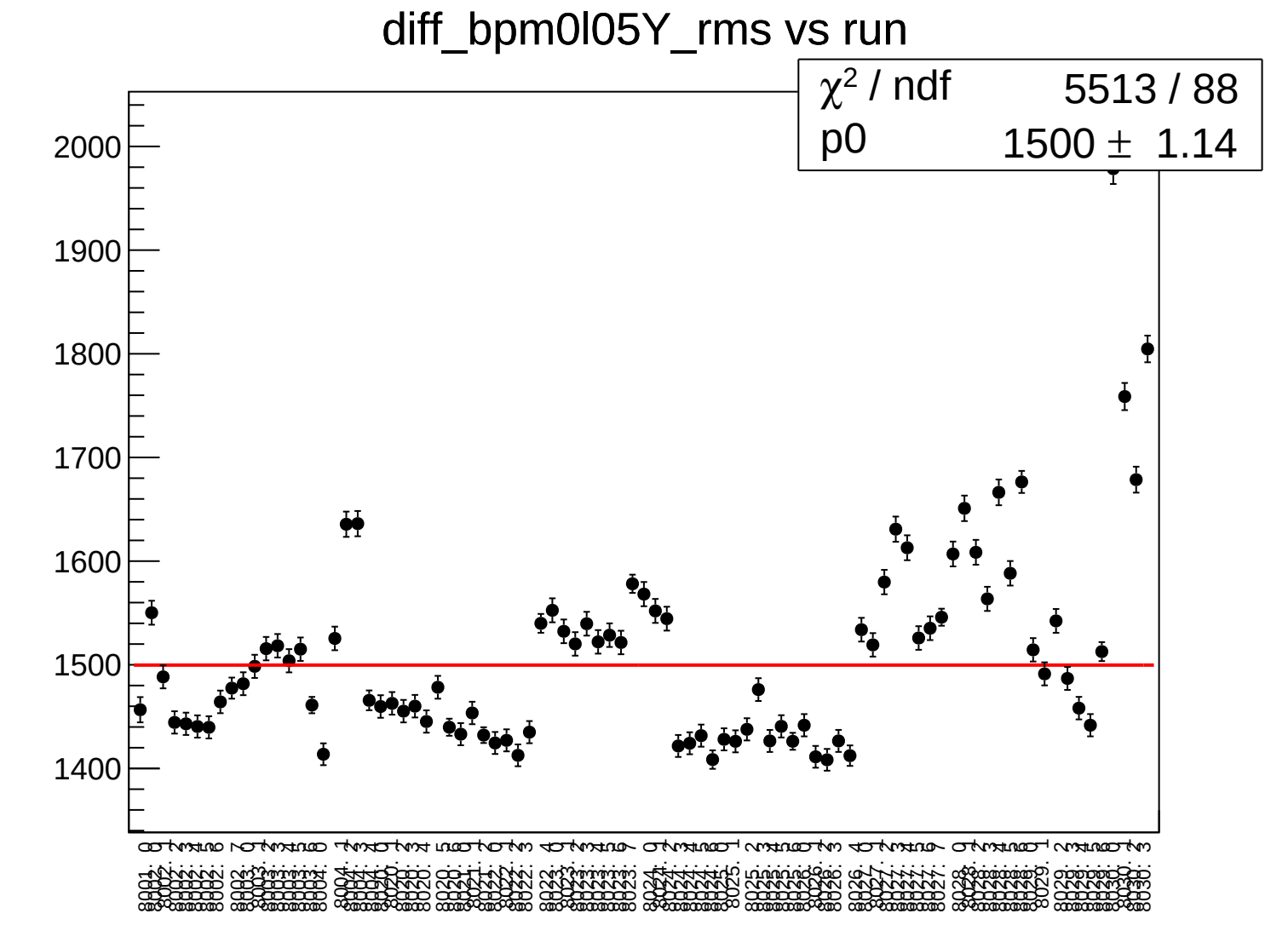

diff_bpm0l05X_mean vs run
χ² / ndf 78.86 / 88
p0 7.632 ± 5.106
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean 257.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

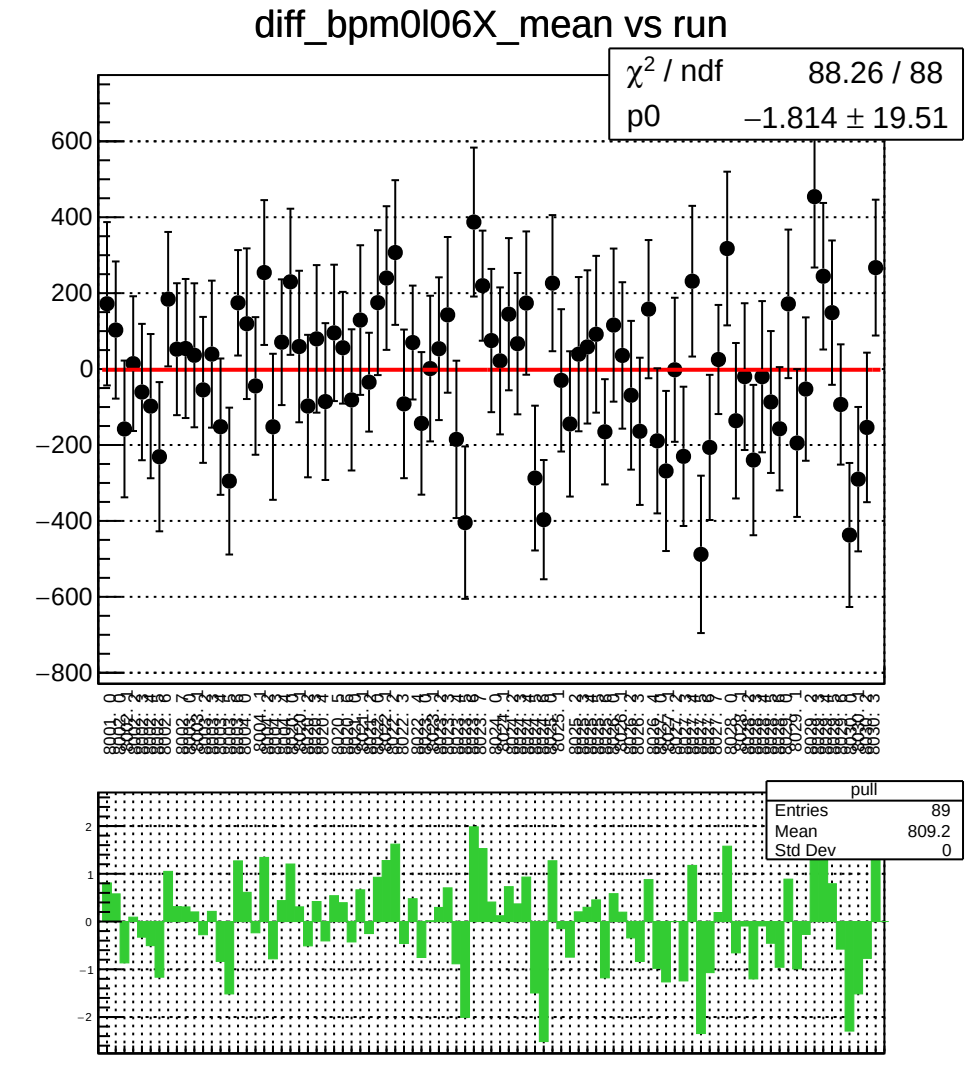

pull1D
Entries 89
Mean 0.00802
Std Dev 0.9413
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

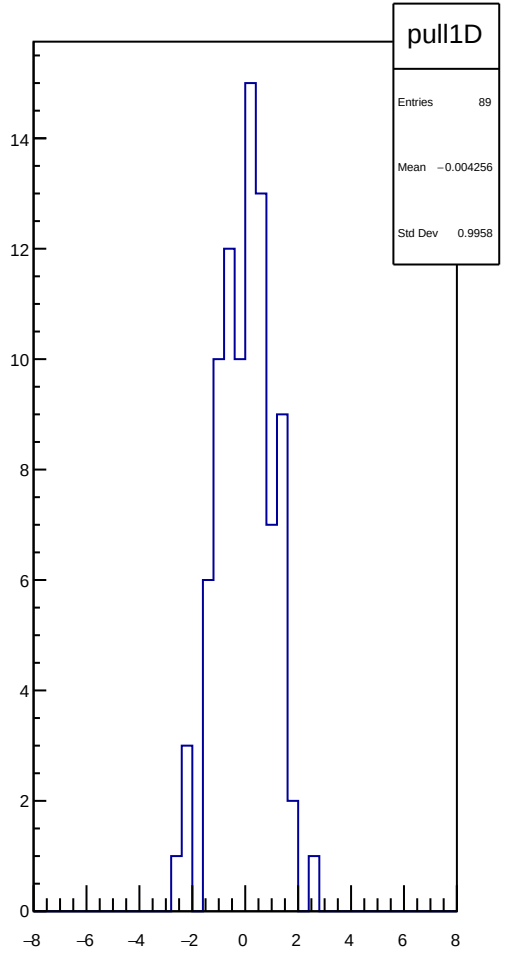

diff_bpm0l05X_rms vs run
χ² / ndf 1.711e+04 / 88
p0 4732 ± 3.611
7000
6500
6000
5500
5000
4500
4000
3500

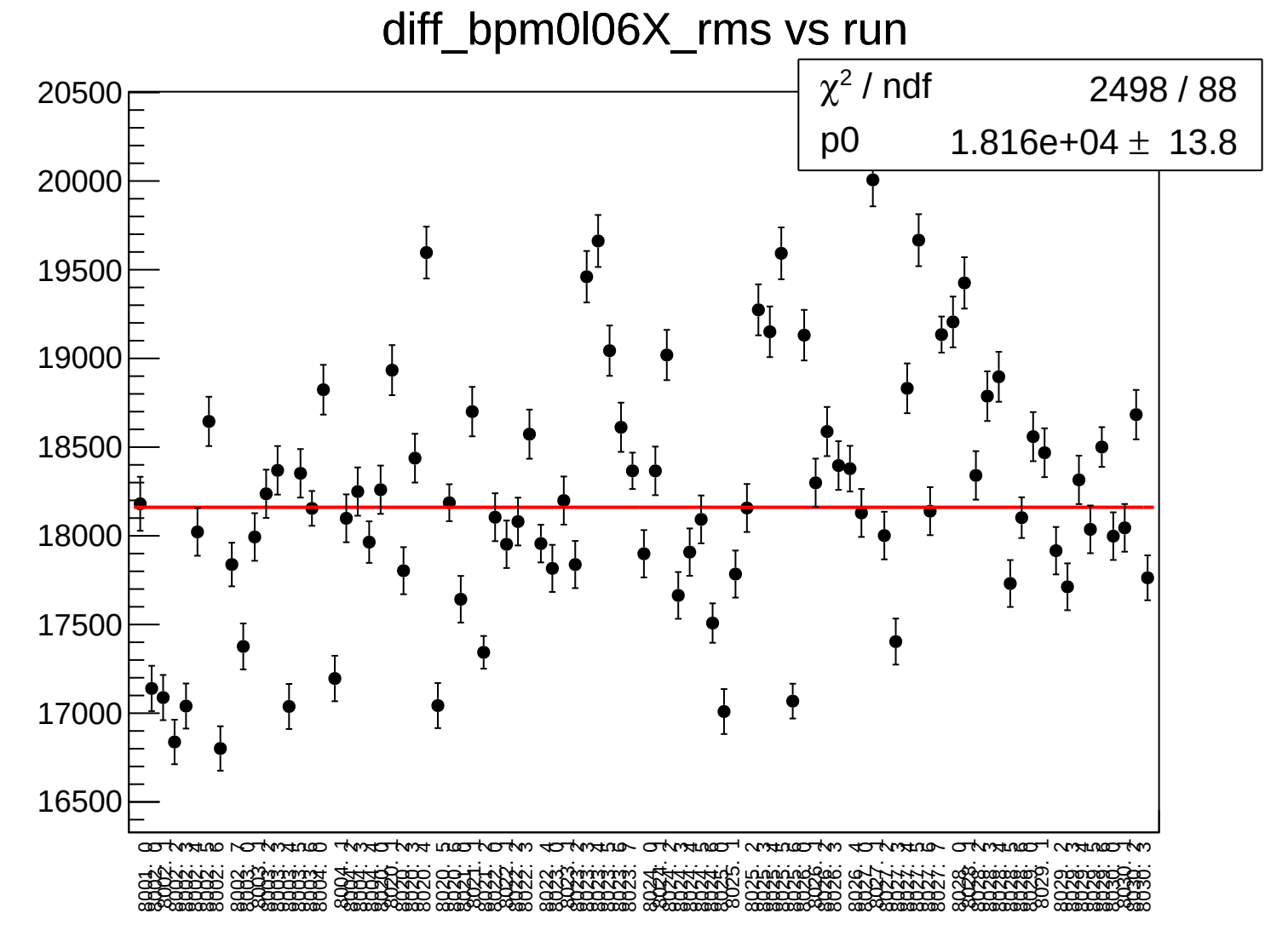

diff_bpm0l05Y_mean vs run
χ² / ndf 411.4 / 88
p0 36.2 ± 1.613
pull
Entries 89
Mean 251.7
Std Dev 0

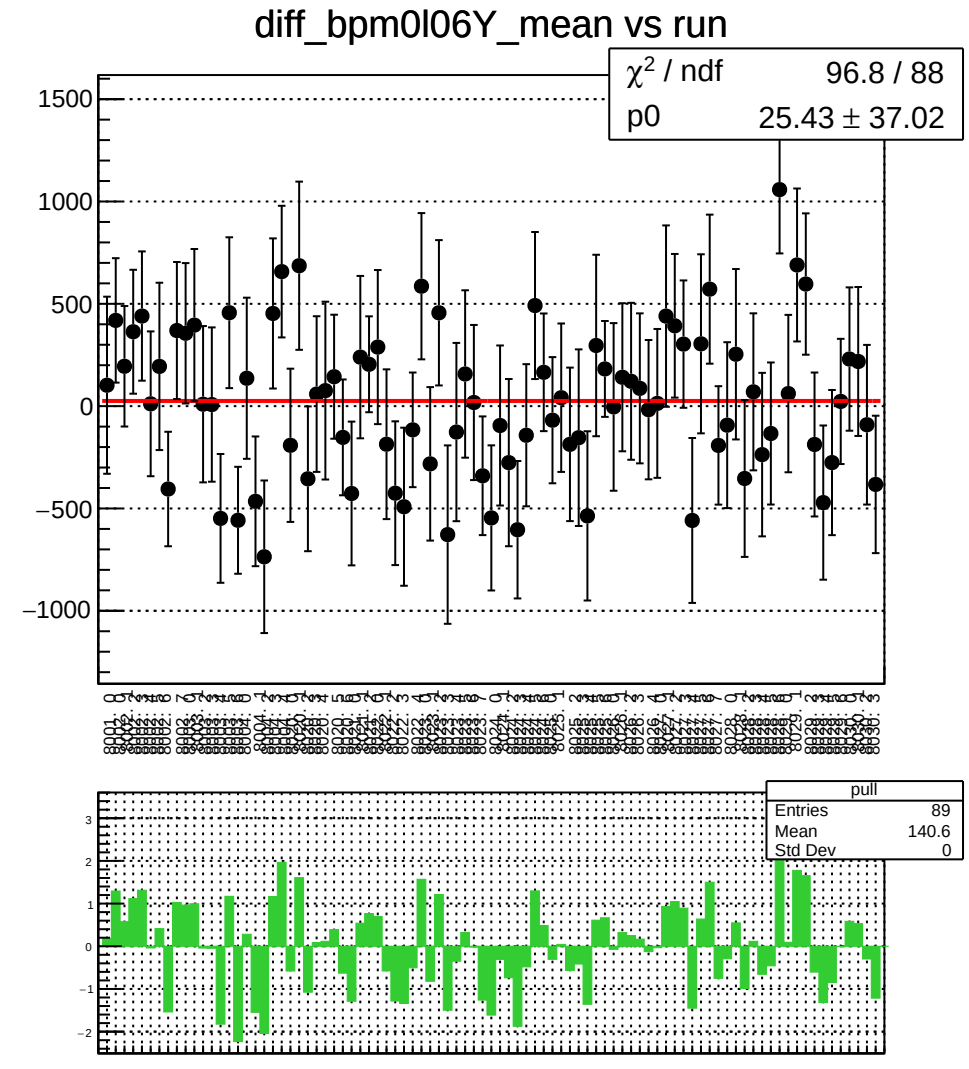

pull1D
Entries 89
Mean −0.08497
Std Dev 2.148

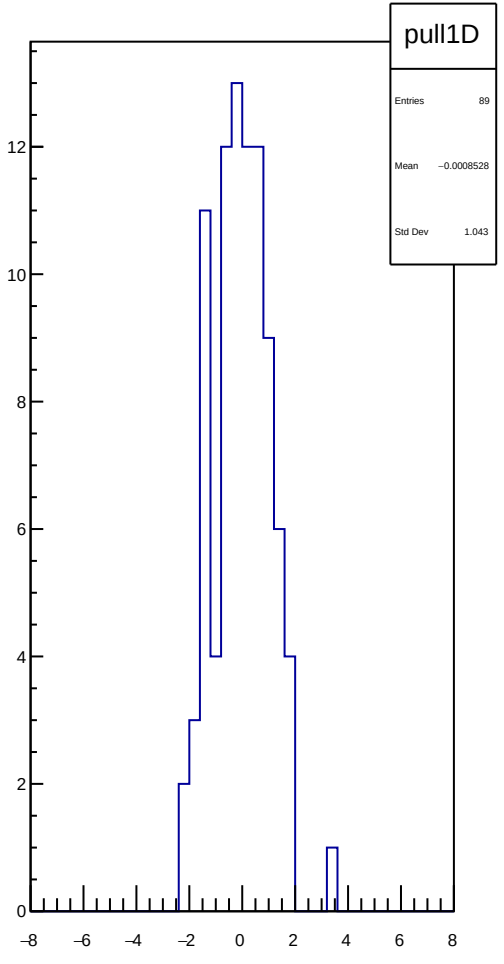

diff_bpm0l05Y_rms vs run
χ² / ndf 5513 / 88
p0 1500 ± 1.14
2000
1900
1800
1700
1600
1500
1400

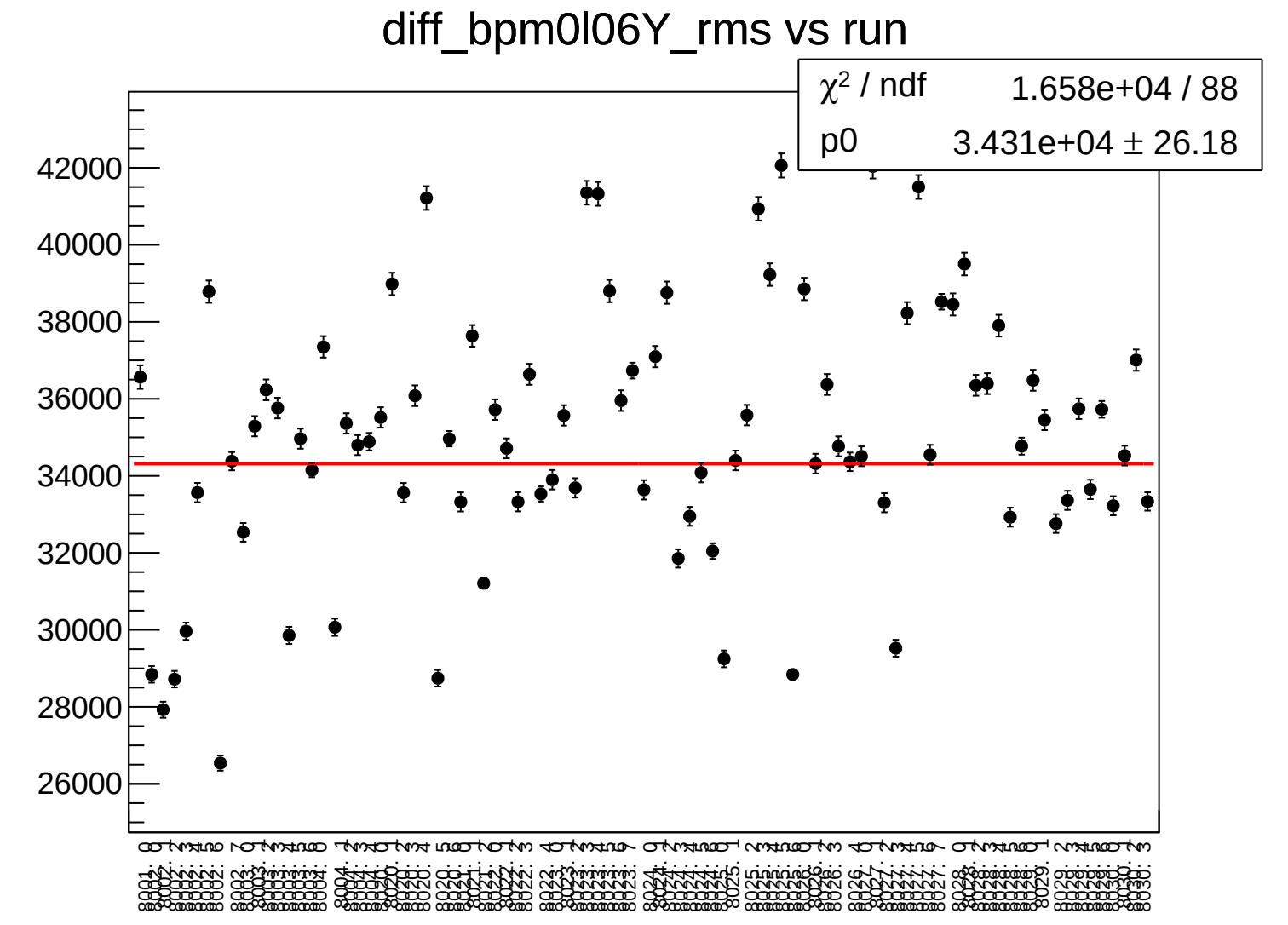

diff_bpm0l06X_mean vs run
χ² / ndf 88.26 / 88
p0 −1.814 ± 19.51
pull
Entries 89
Mean 809.2
Std Dev 0

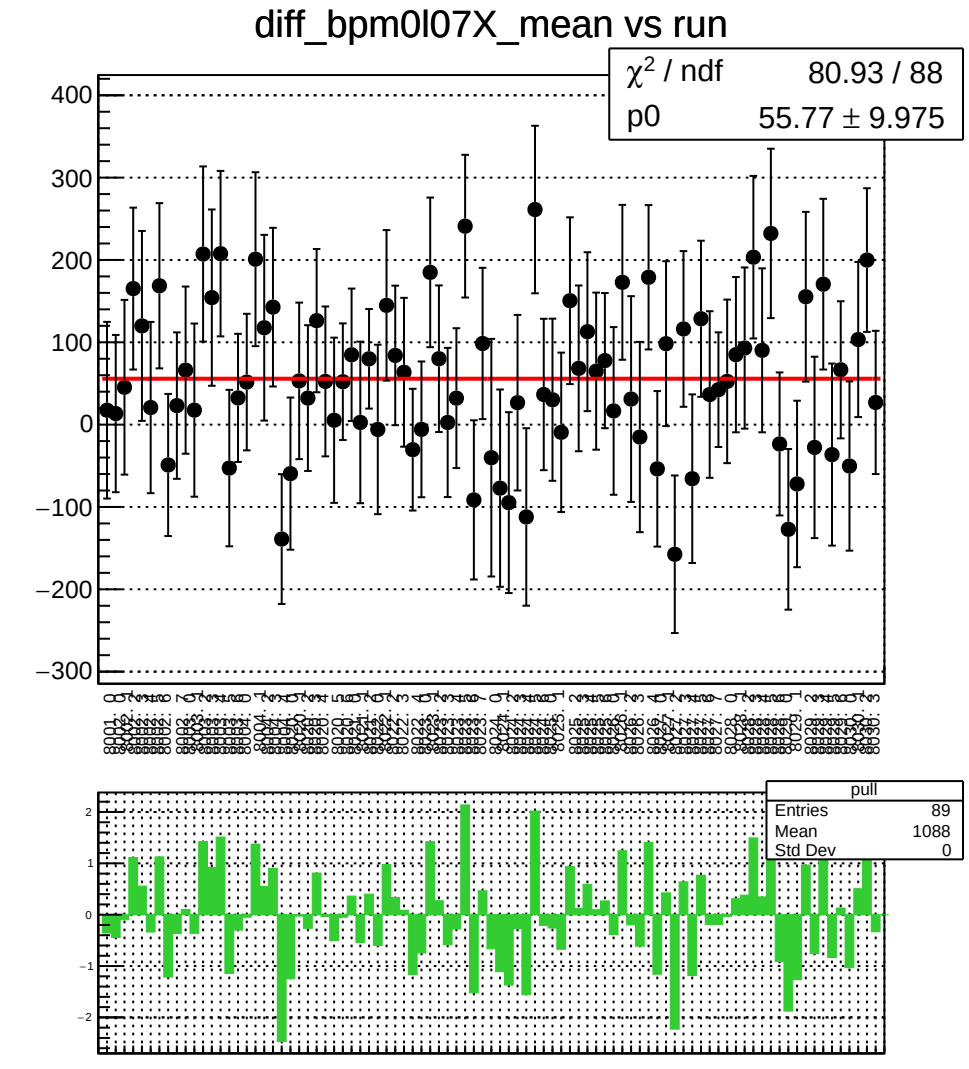

pull1D
Entries 89
Mean −0.004256
Std Dev 0.9958

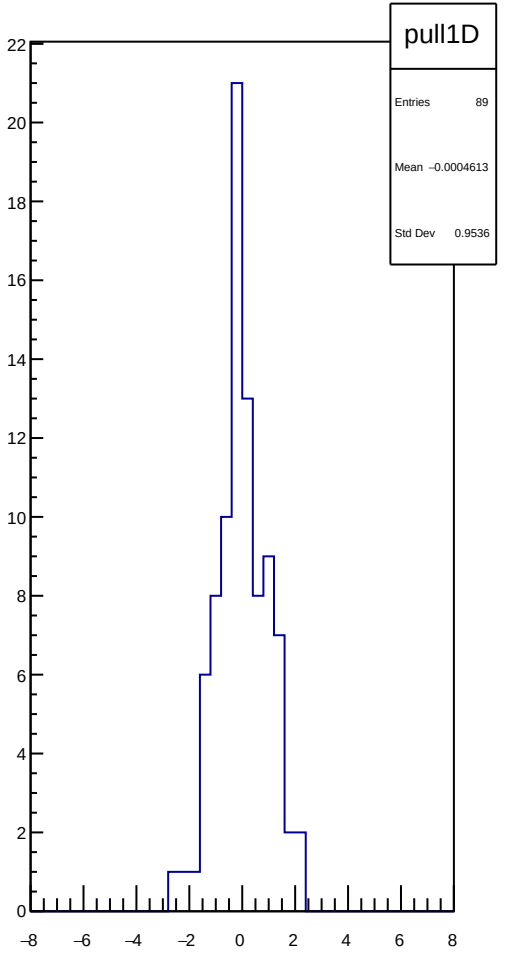

diff_bpm0l06X_rms vs run
χ² / ndf 2498 / 88
p0 1.816e+04 ± 13.8
20500
20000
19500
19000
18500
18000
17500
17000
16500

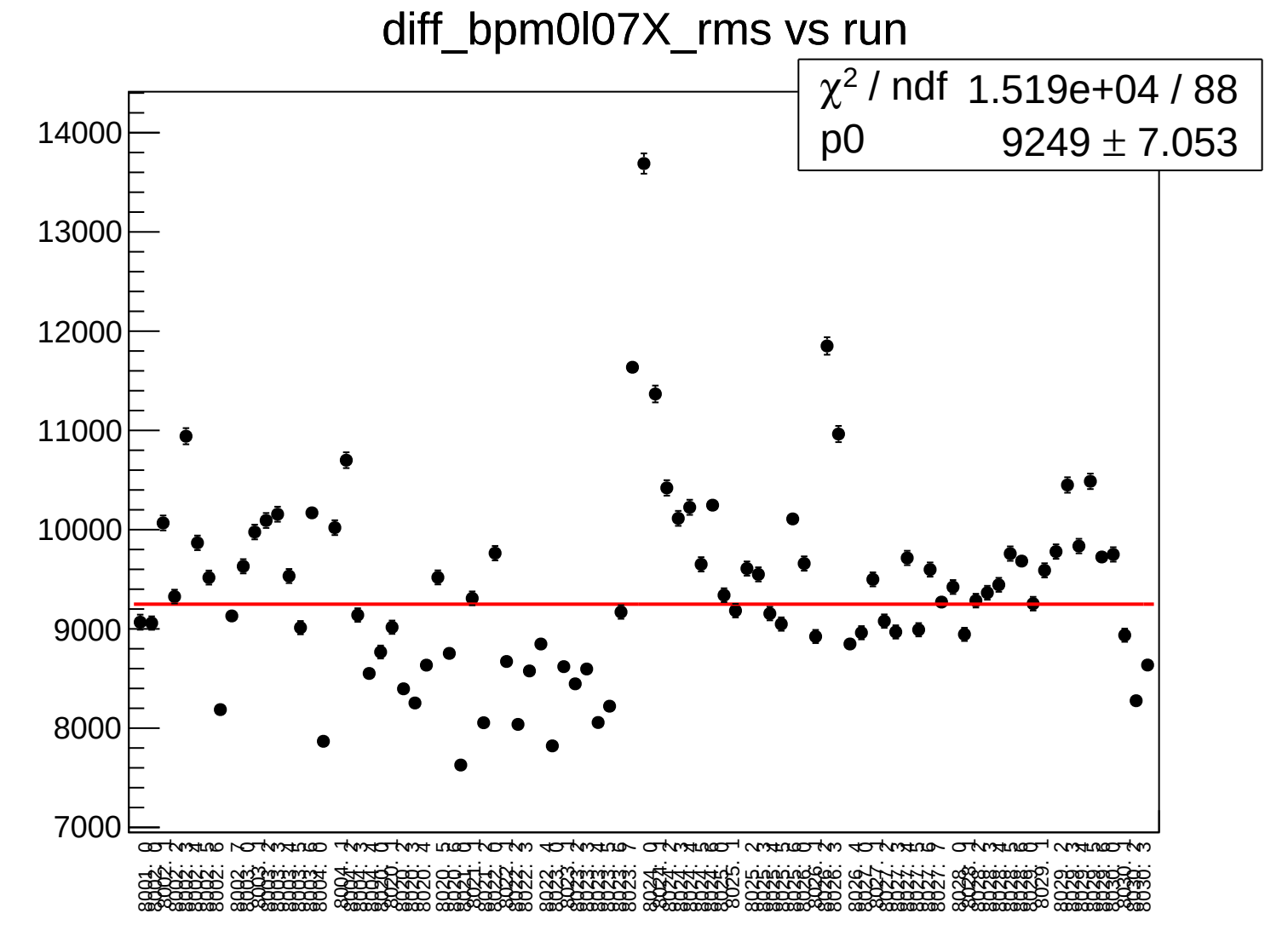

diff_bpm0l06Y_mean vs run
χ^2 / ndf 96.8 / 88
p0 25.43 ± 37.02
1500
1000
500
0
−500
−1000
pull
Entries 89
Mean 140.6
Std Dev 0
3
2
1
0
−1
−2

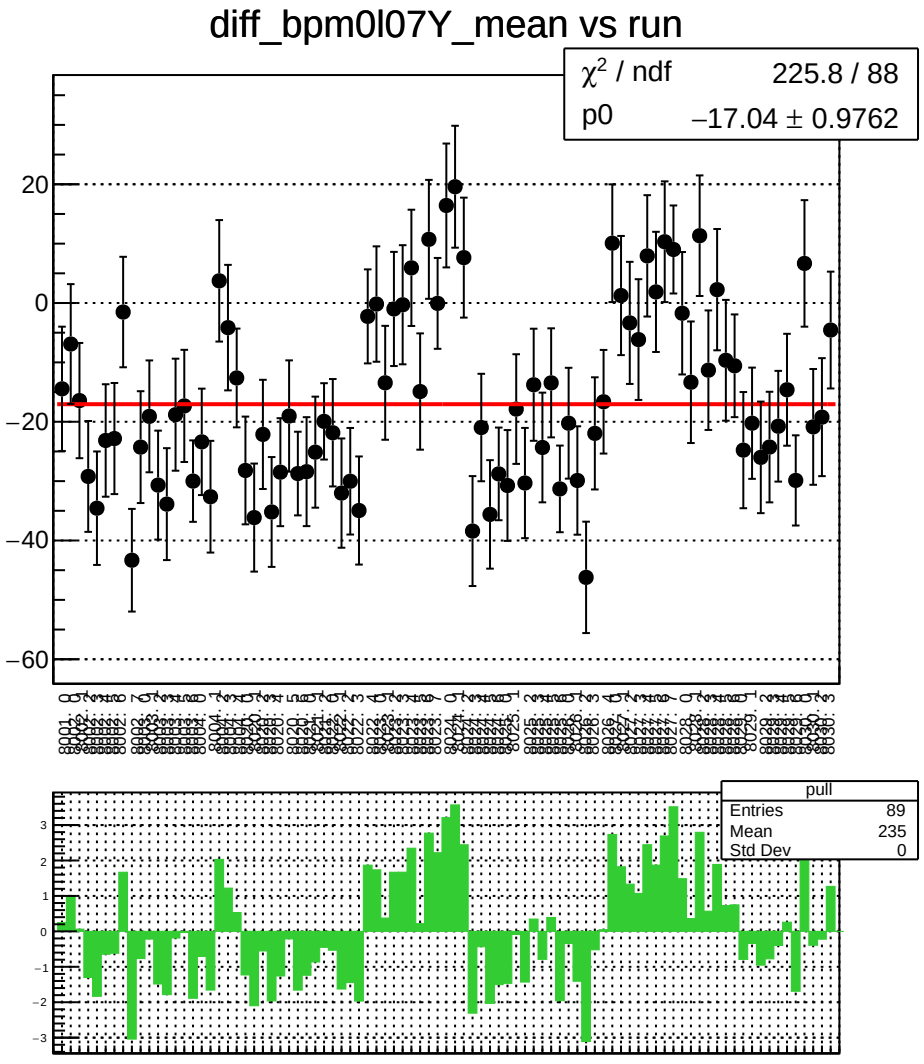

pull1D
Entries 89
Mean −0.0008528
Std Dev 1.043
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

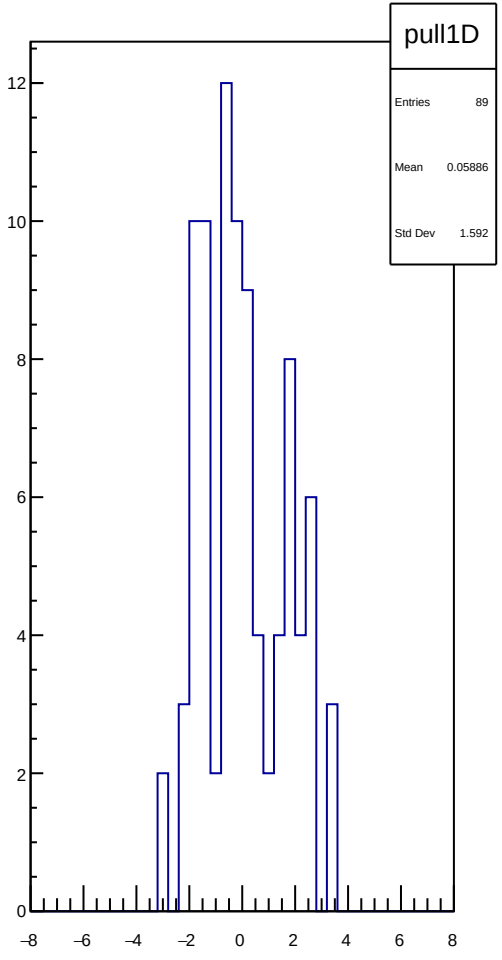

diff_bpm0l06Y_rms vs run
χ² / ndf 1.658e+04 / 88
p0 3.431e+04 ± 26.18
42000
40000
38000
36000
34000
32000
30000
28000
26000

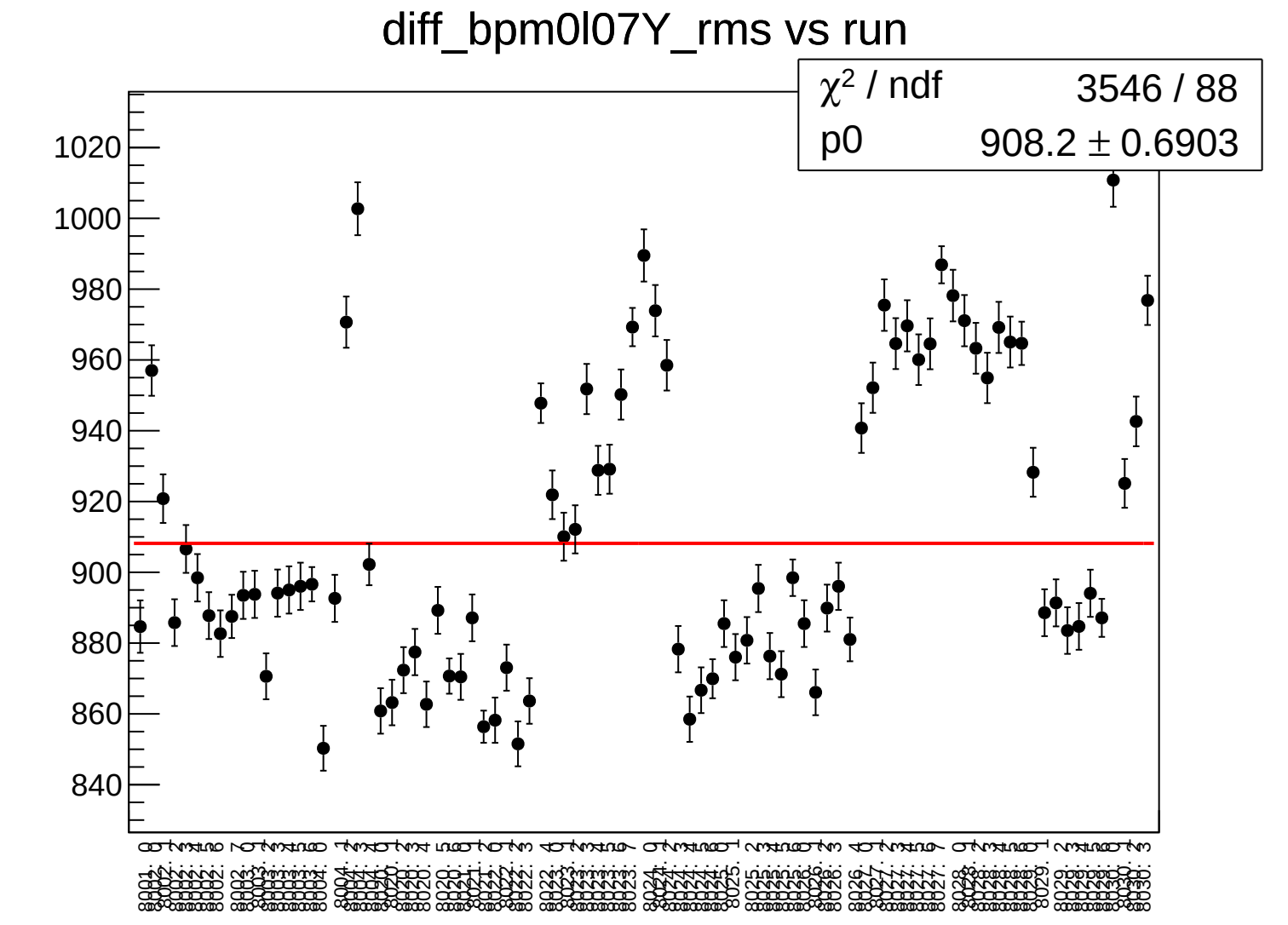

diff_bpm0l07X_mean vs run
χ² / ndf 80.93 / 88
p0 55.77 ± 9.975
pull
Entries 89
Mean 1088
Std Dev 0

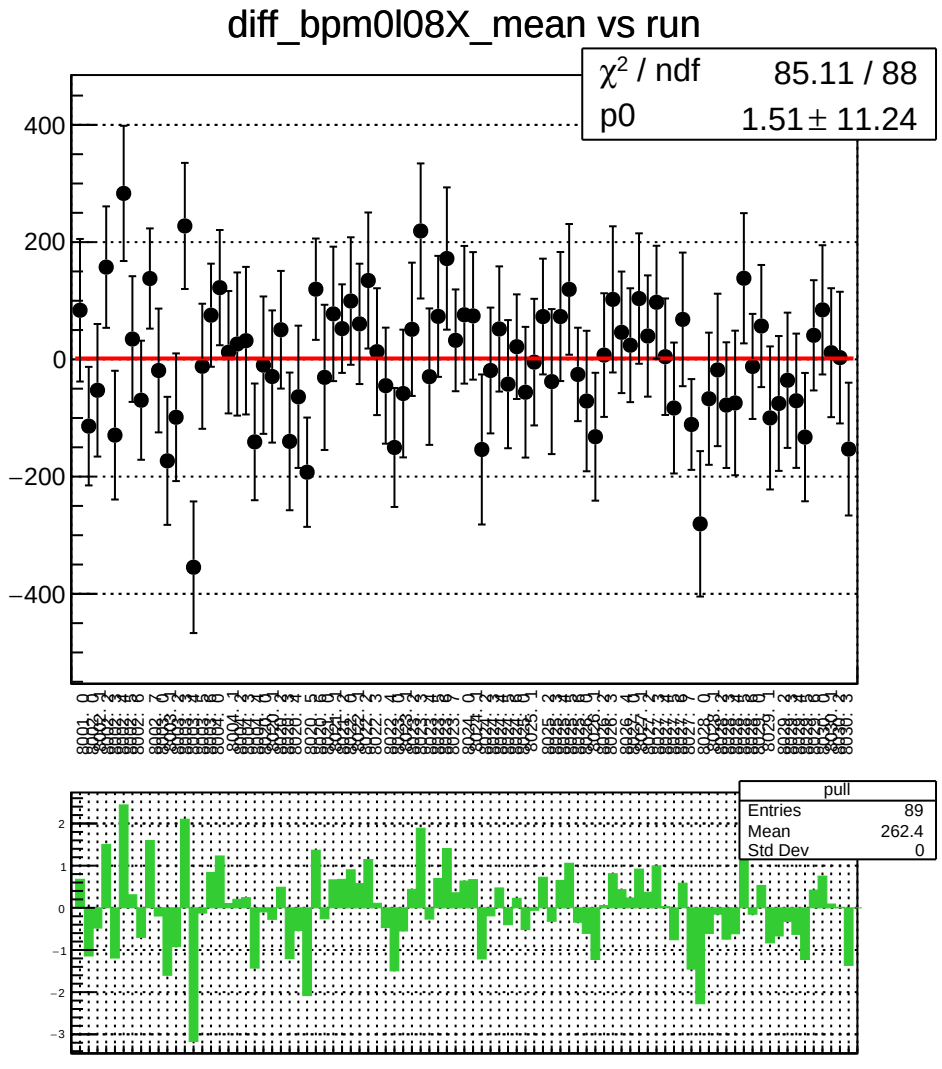

pull1D
Entries 89
Mean −0.0004613
Std Dev 0.9536

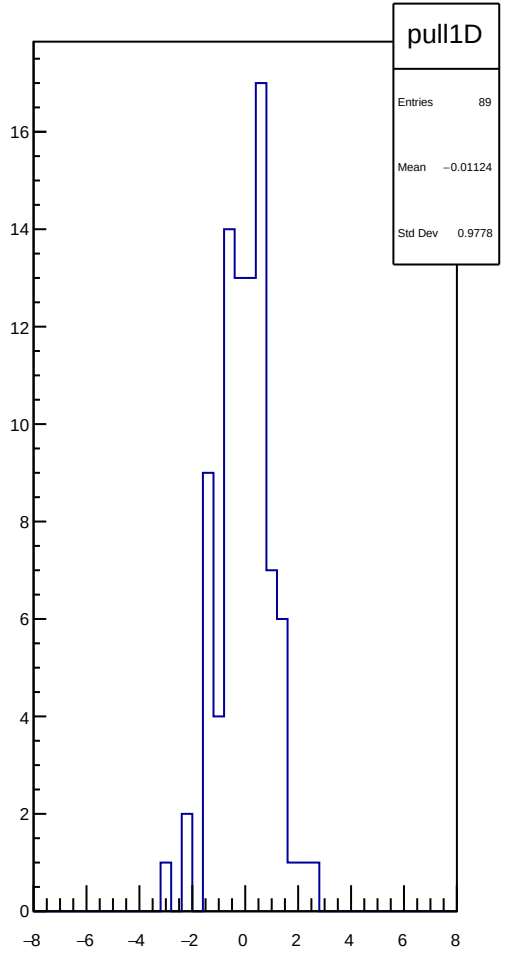

diff_bpm0l07X_rms vs run
χ² / ndf 1.519e+04 / 88
p0 9249 ± 7.053
14000
13000
12000
11000
10000
9000
8000
7000

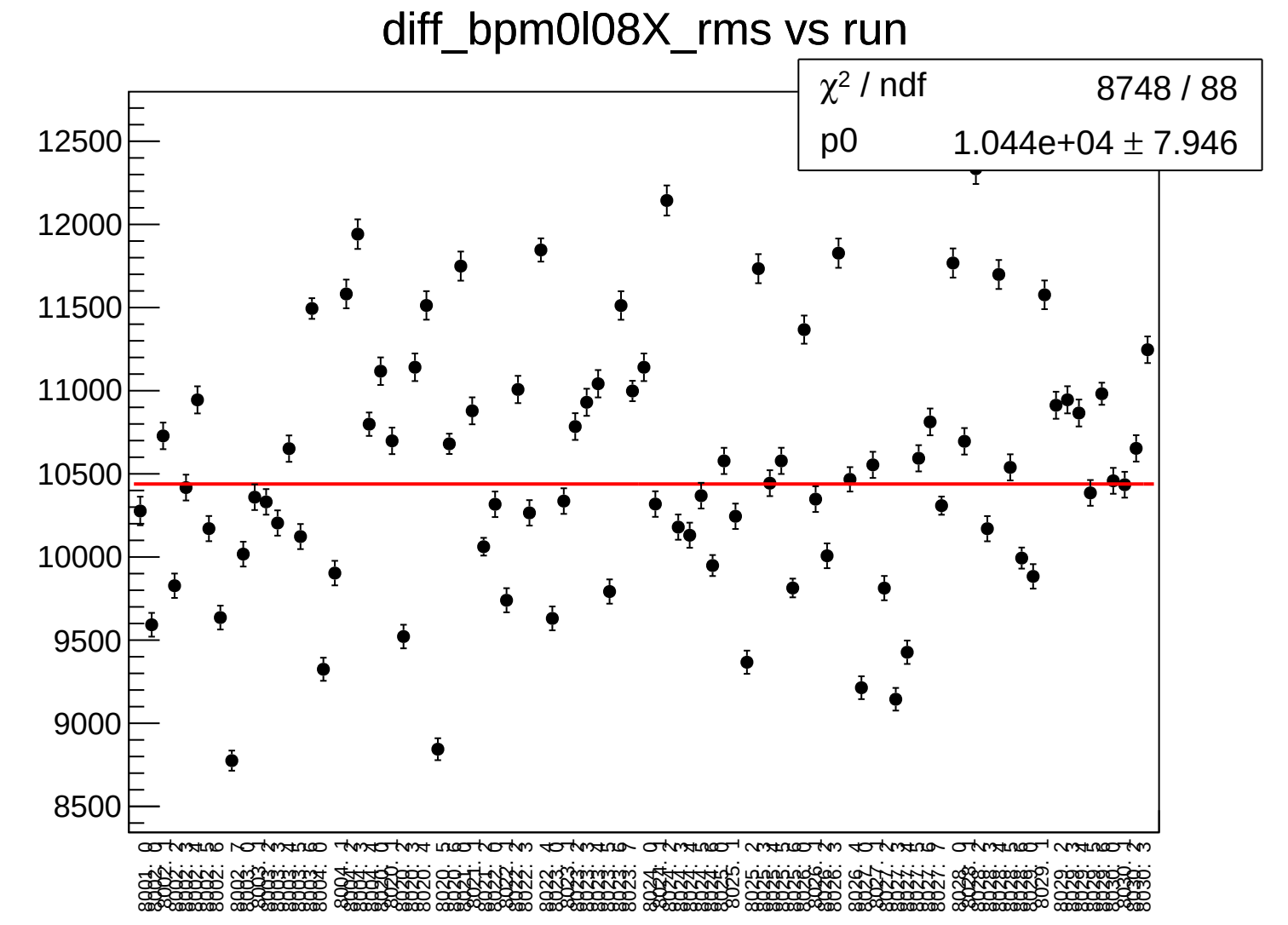

diff_bpm0l07Y_mean vs run
χ² / ndf 225.8 / 88
p0 −17.04 ± 0.9762
pull
Entries 89
Mean 235
Std Dev 0

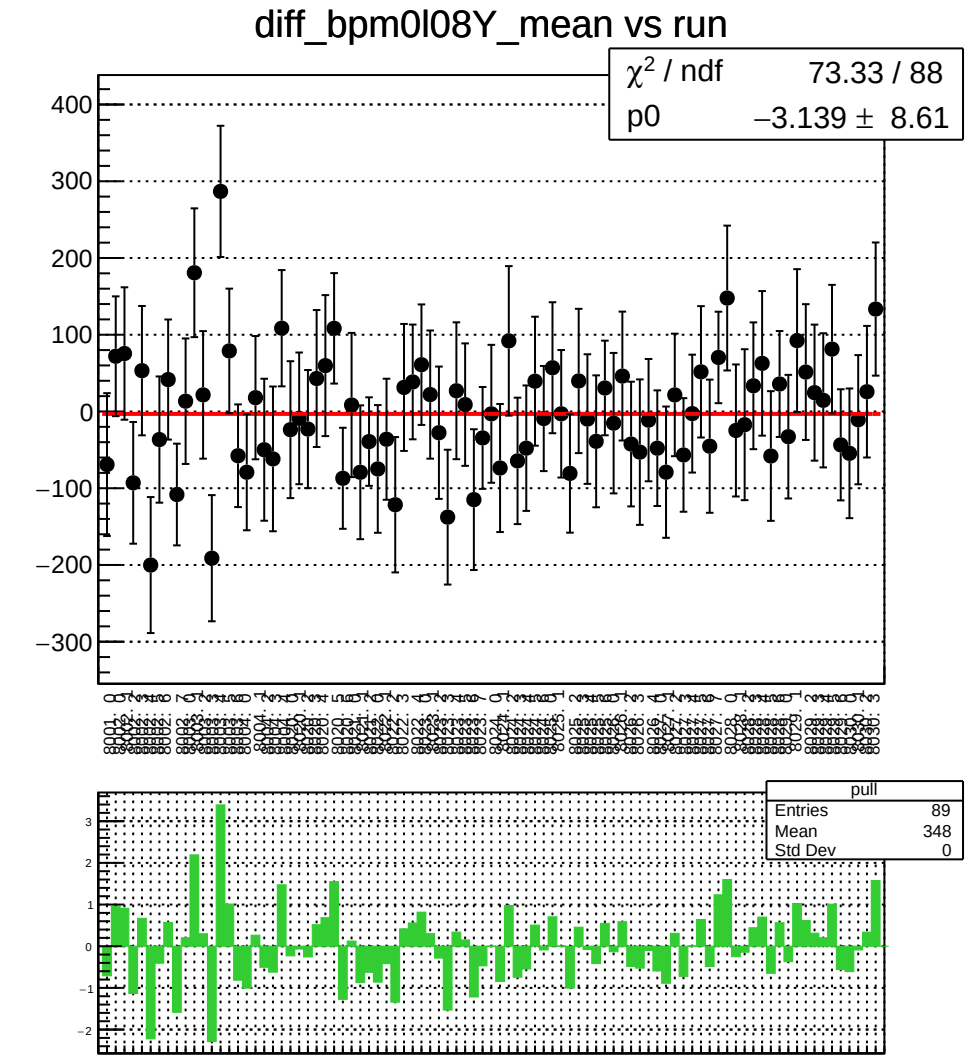

pull1D
Entries 89
Mean 0.05886
Std Dev 1.592

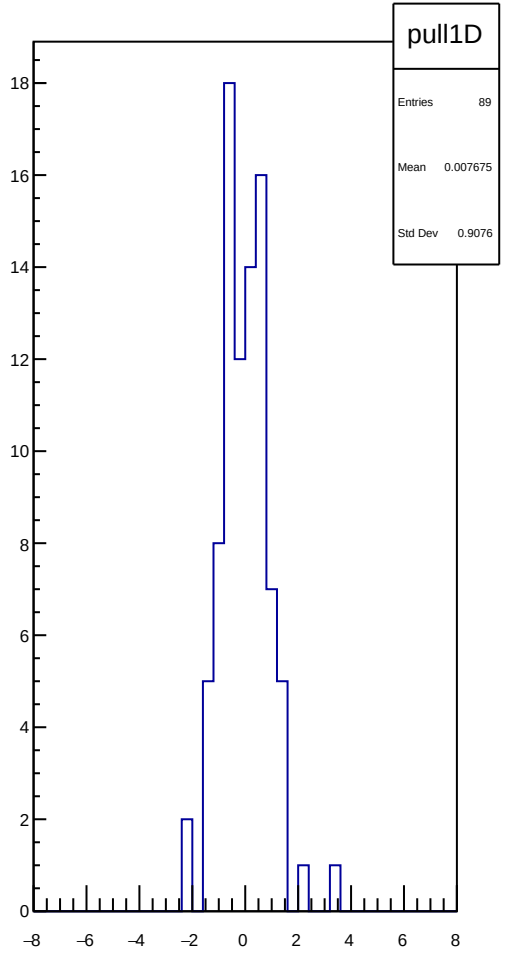

diff_bpm0l07Y_rms vs run
χ² / ndf 3546 / 88
p0 908.2 ± 0.6903
1020
1000
980
960
940
920
900
880
860
840

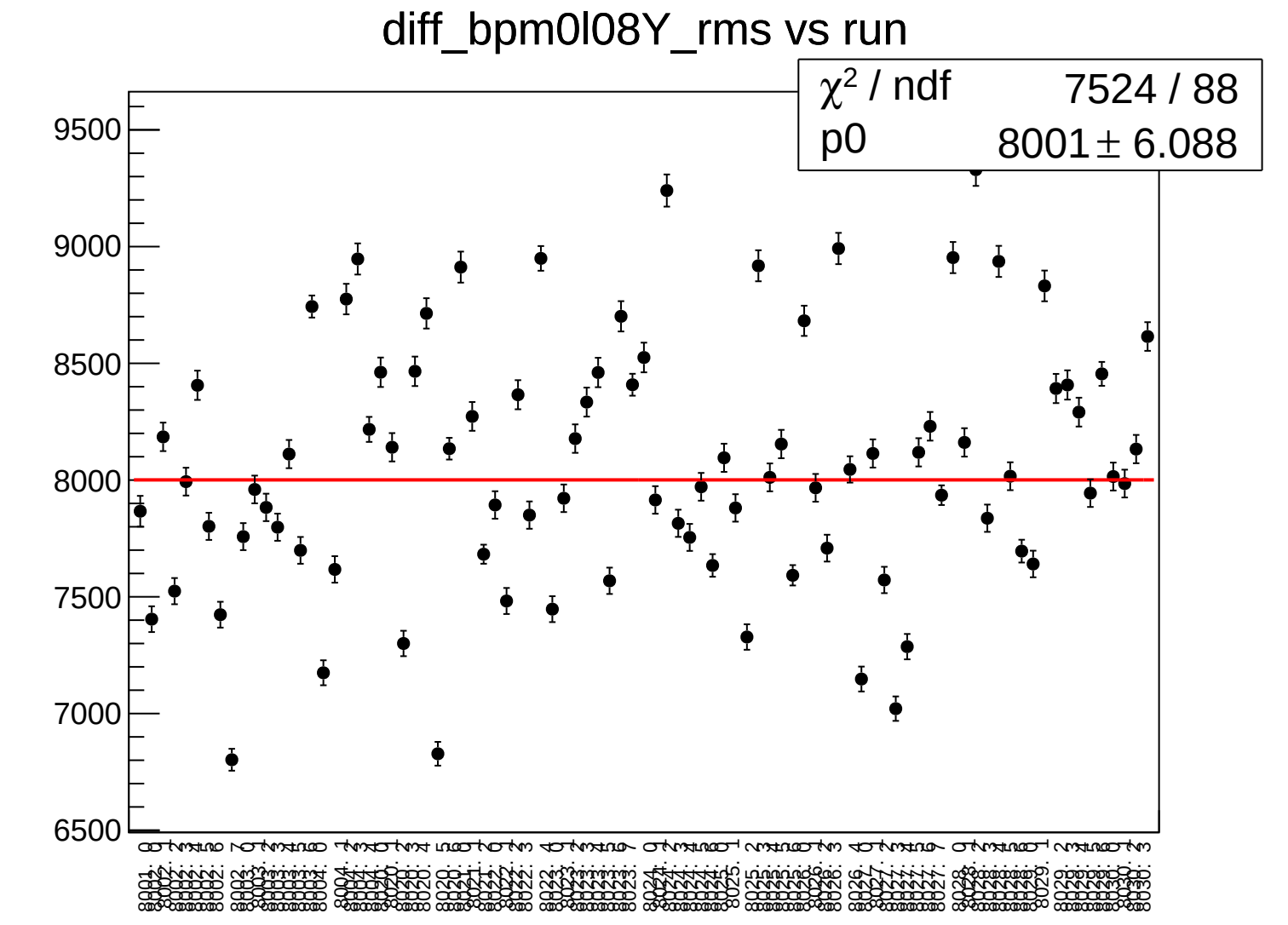

diff_bpm0l08X_mean vs run
χ² / ndf 85.11 / 88
p0 1.51 ± 11.24
400
200
0
−200
−400
pull
Entries 89
Mean 262.4
Std Dev 0
2
1
0
−1
−2
−3

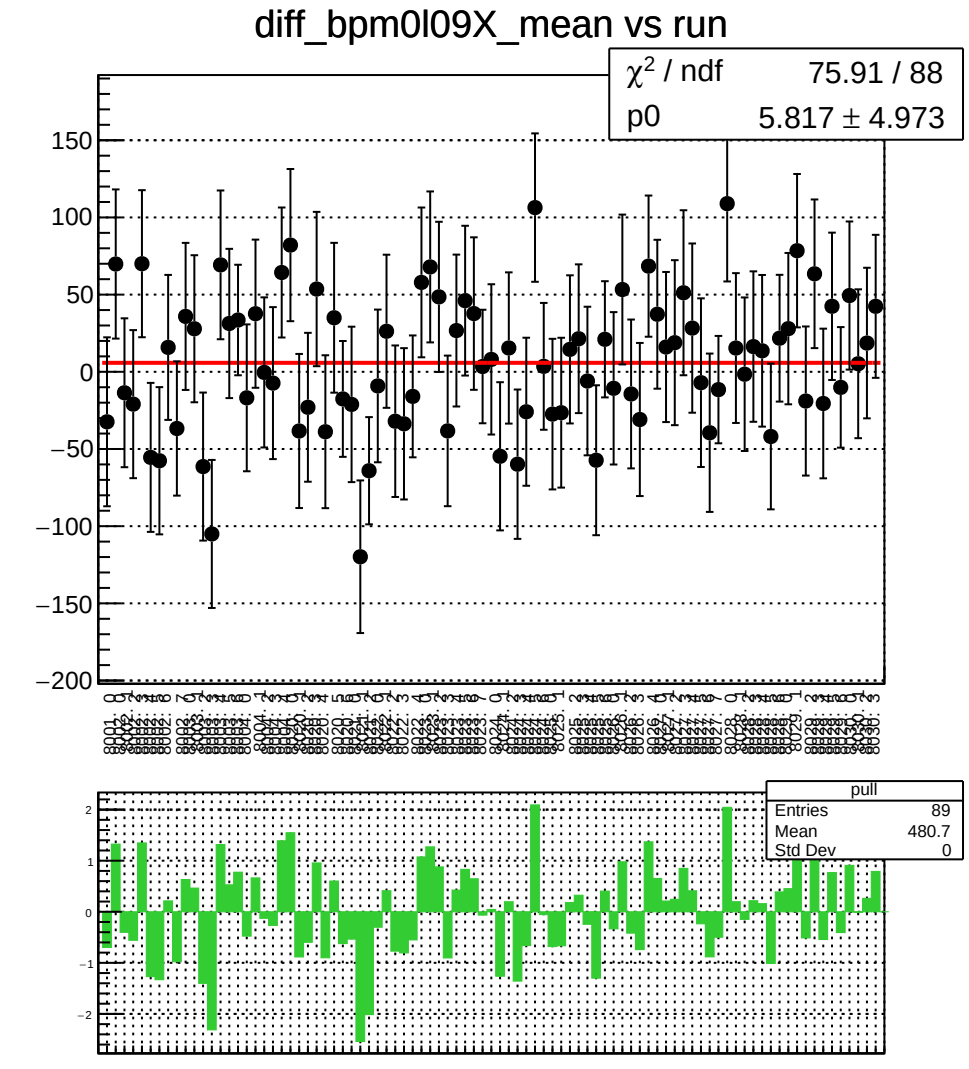

pull1D
Entries 89
Mean −0.01124
Std Dev 0.9778
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

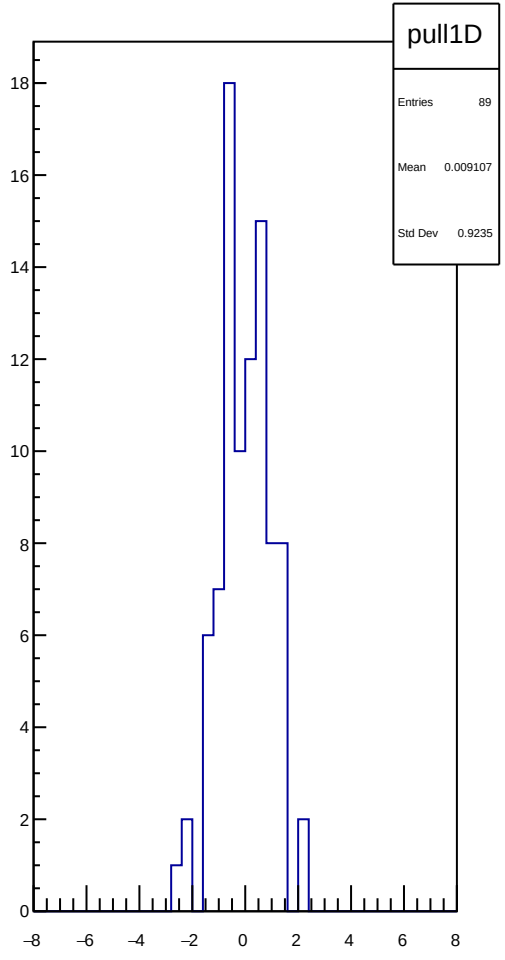

diff_bpm0l08X_rms vs run
χ² / ndf 8748 / 88
p0 1.044e+04 ± 7.946
12500
12000
11500
11000
10500
10000
9500
9000
8500

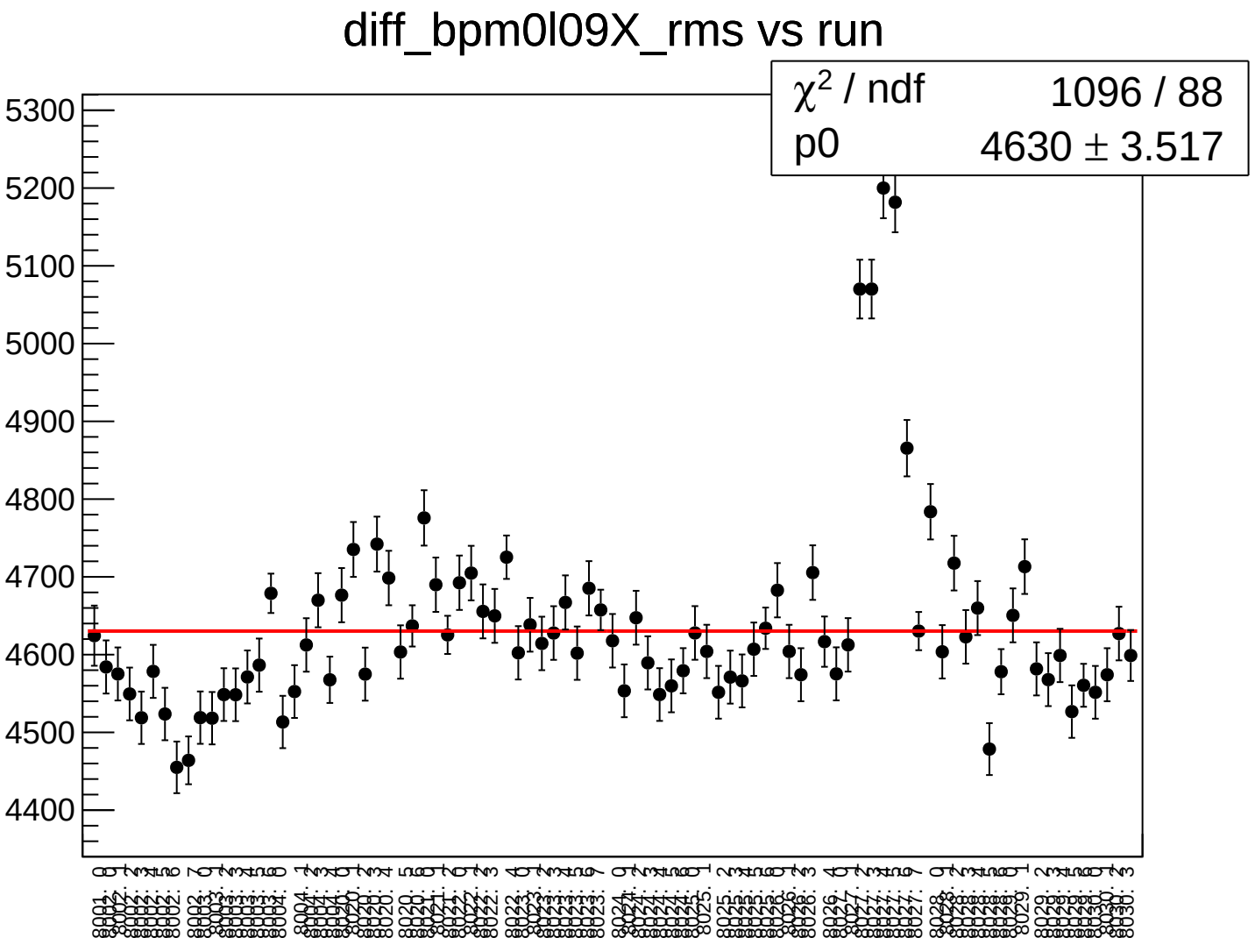

diff_bpm0l08Y_mean vs run
χ² / ndf 73.33 / 88
p0 −3.139 ± 8.61
pull
Entries 89
Mean 348
Std Dev 0

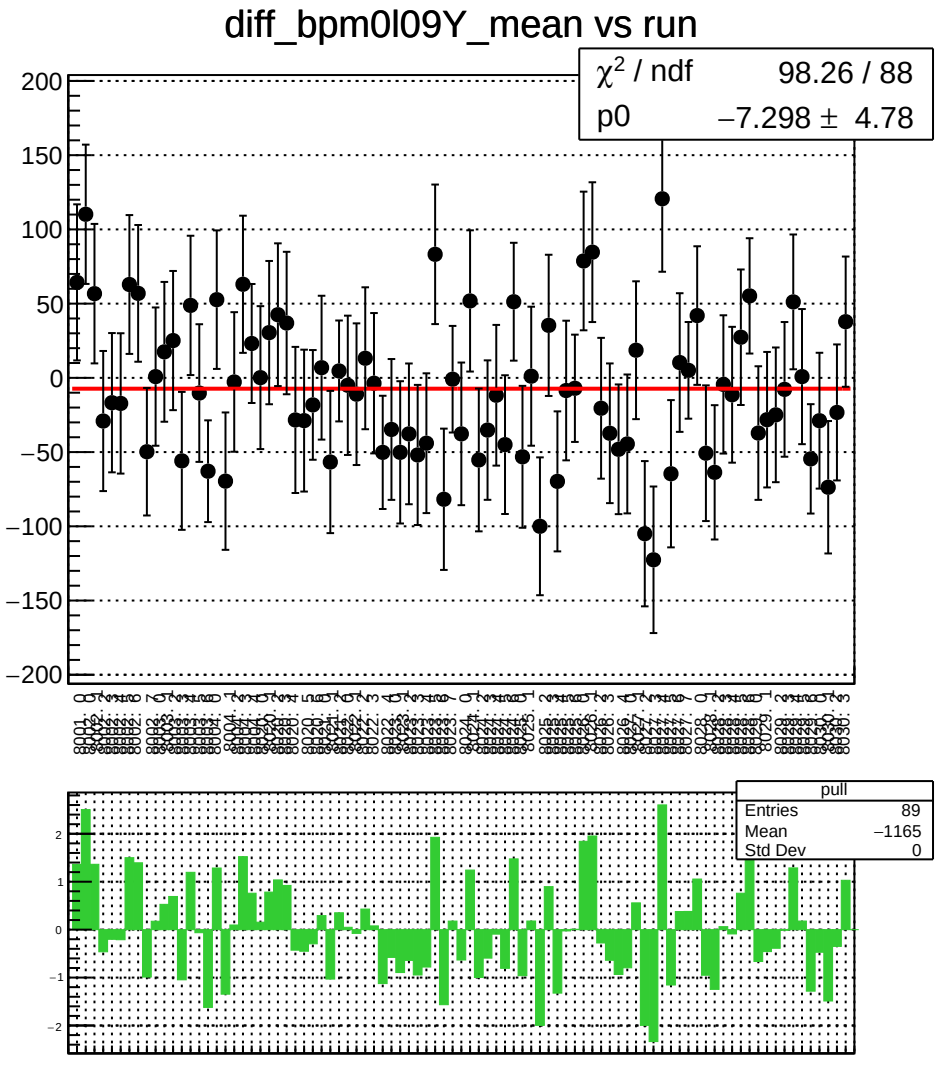

pull1D
Entries 89
Mean 0.007675
Std Dev 0.9076

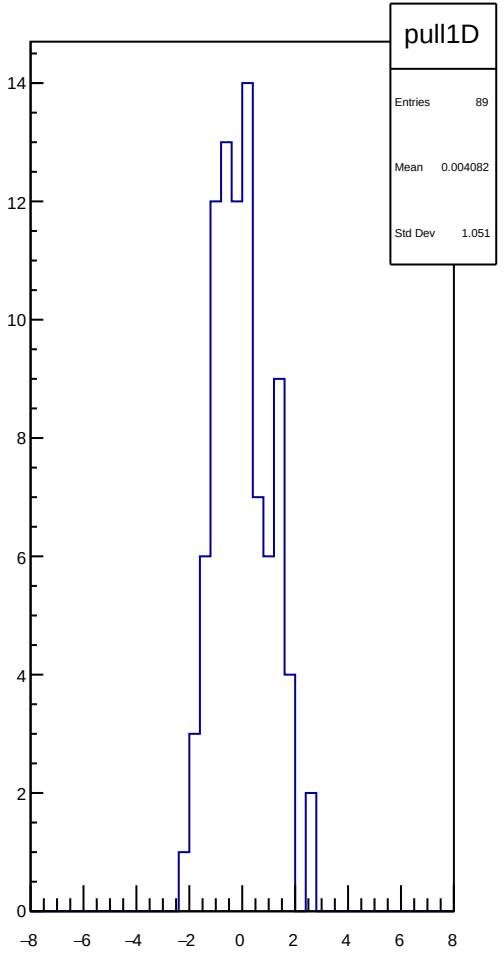

diff_bpm0l08Y_rms vs run
χ² / ndf 7524 / 88
p0 8001 ± 6.088
9500
9000
8500
8000
7500
7000
6500

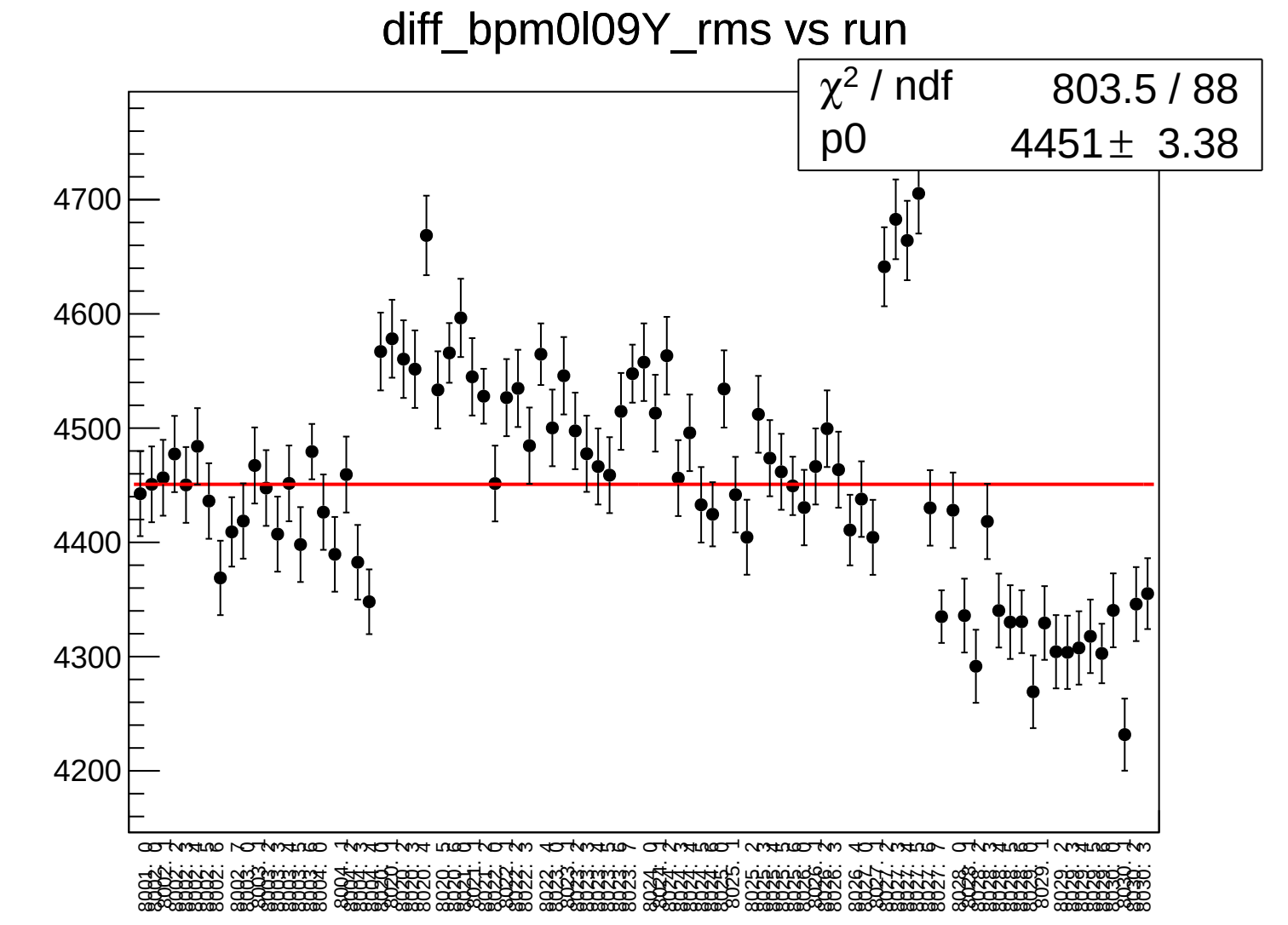

diff_bpm0l09X_mean vs run
χ^2 / ndf 75.91 / 88
p0 5.817 ± 4.973
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean 480.7
Std Dev 0
2
1
0
−1
−2

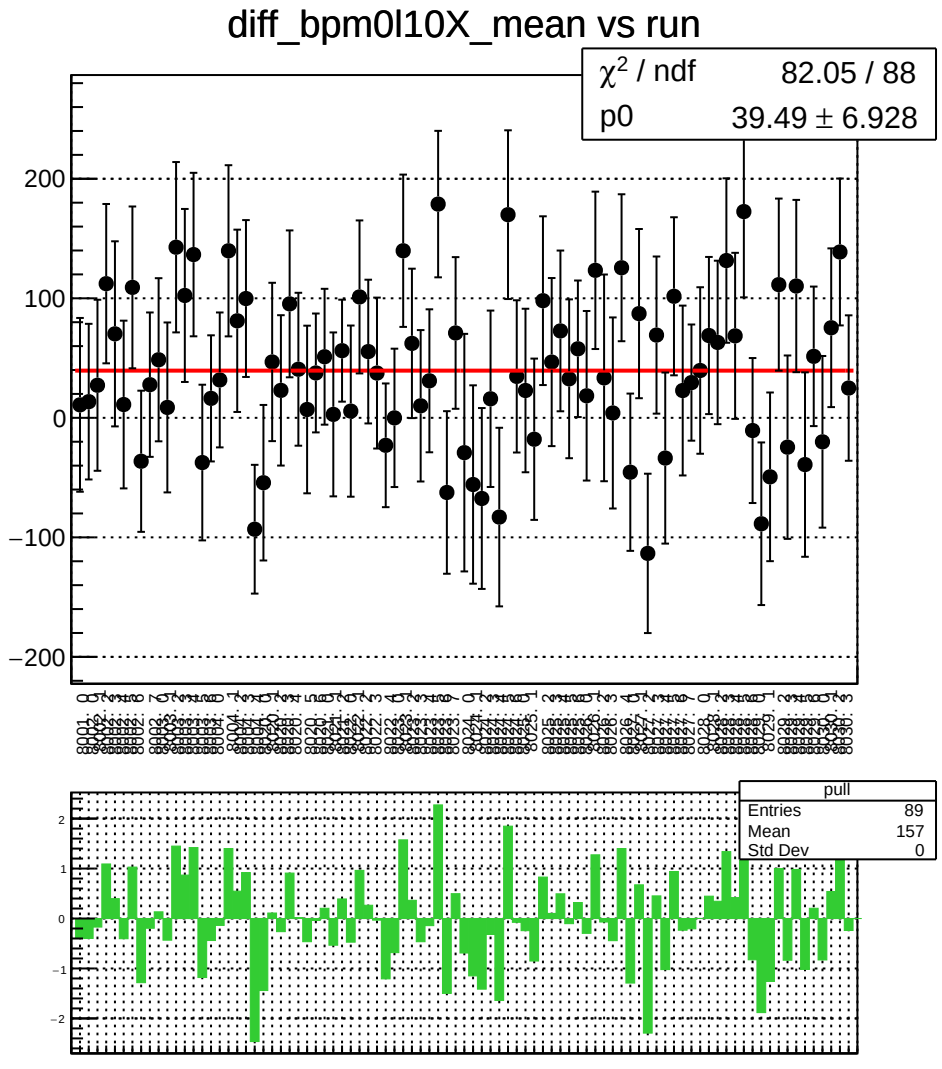

pull1D
Entries 89
Mean 0.009107
Std Dev 0.9235
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

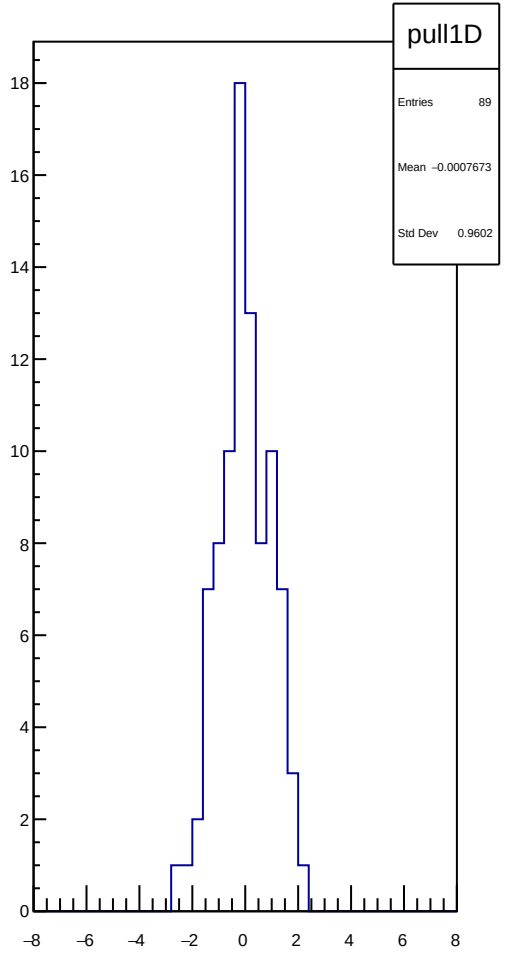

diff_bpm0l09X_rms vs run
χ² / ndf 1096 / 88
p0 4630 ± 3.517
5300
5200
5100
5000
4900
4800
4700
4600
4500
4400

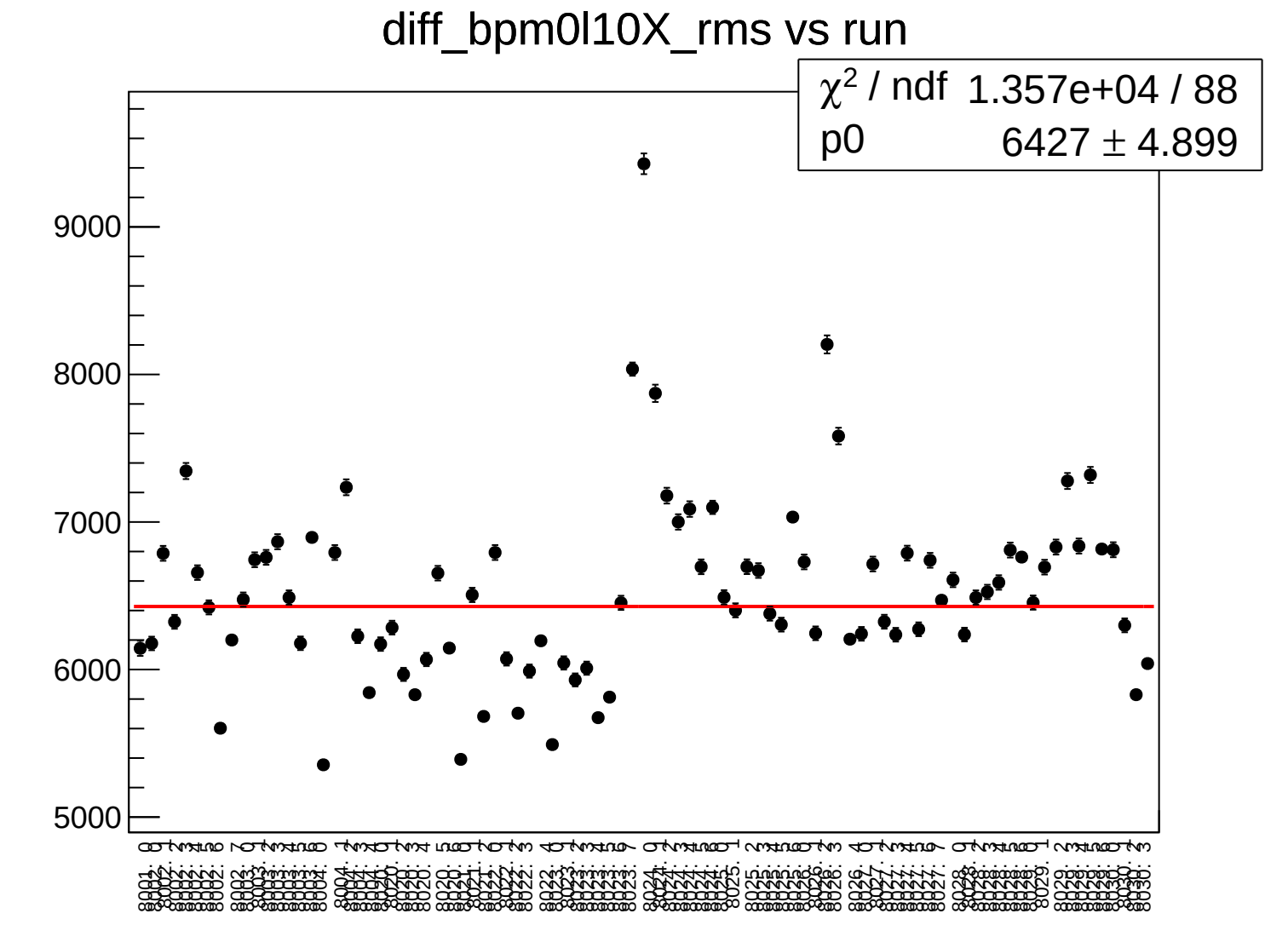

diff_bpm0l09Y_mean vs run
χ² / ndf 98.26 / 88
p0 −7.298 ± 4.78
pull
Entries 89
Mean −1165
Std Dev 0

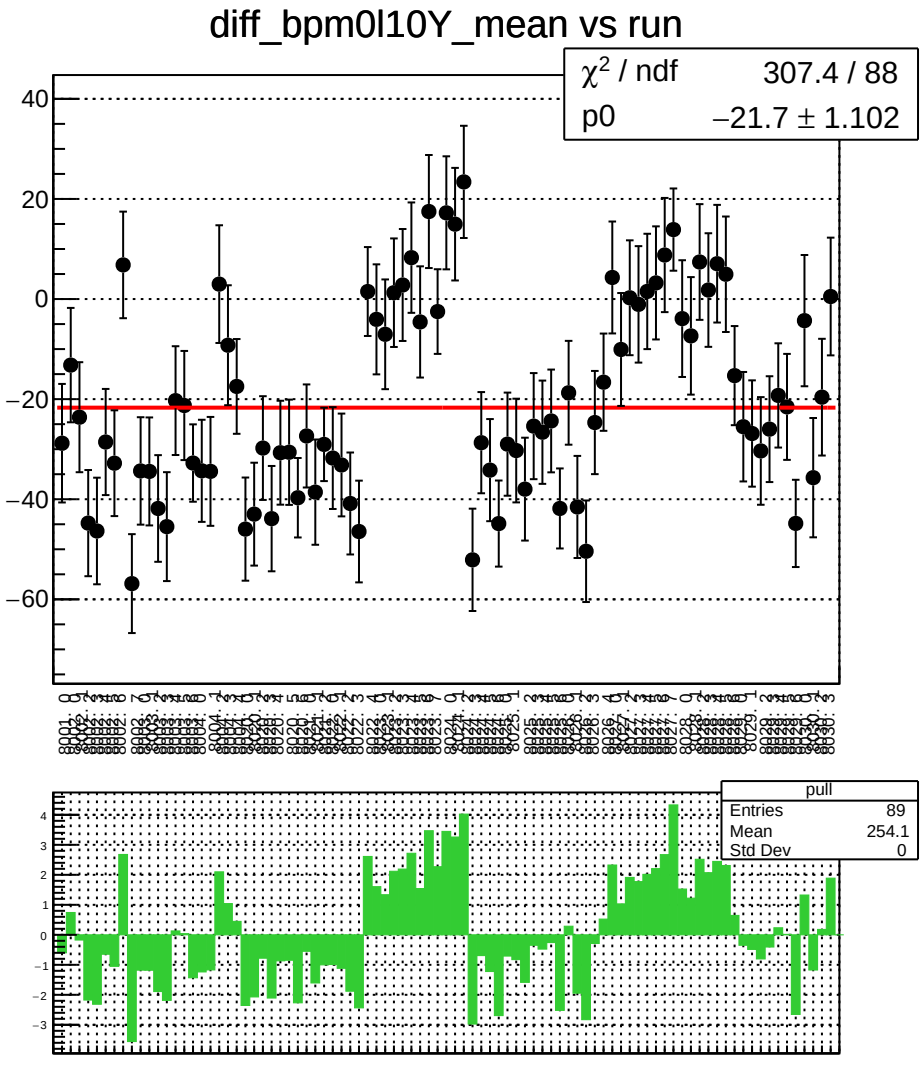

pull1D
Entries 89
Mean 0.004082
Std Dev 1.051

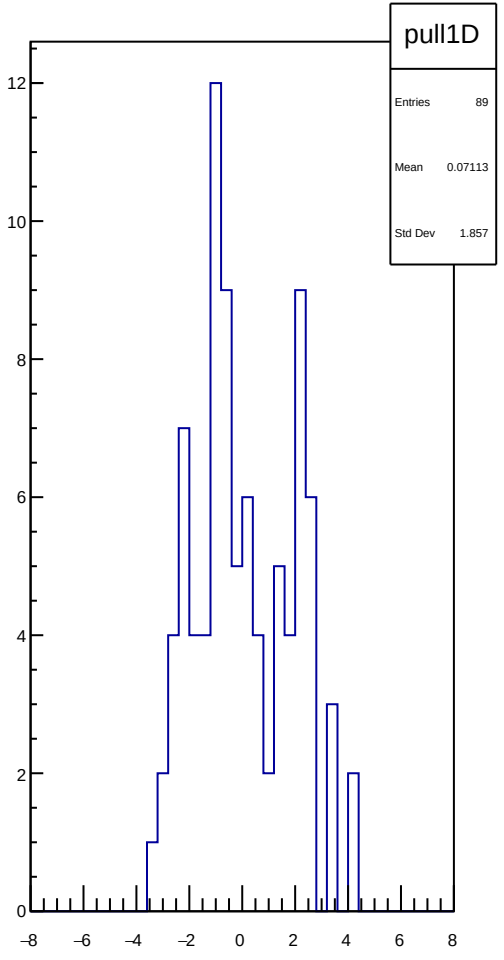

diff_bpm0l09Y_rms vs run
χ² / ndf 803.5 / 88
p0 4451 ± 3.38
4700
4600
4500
4400
4300
4200

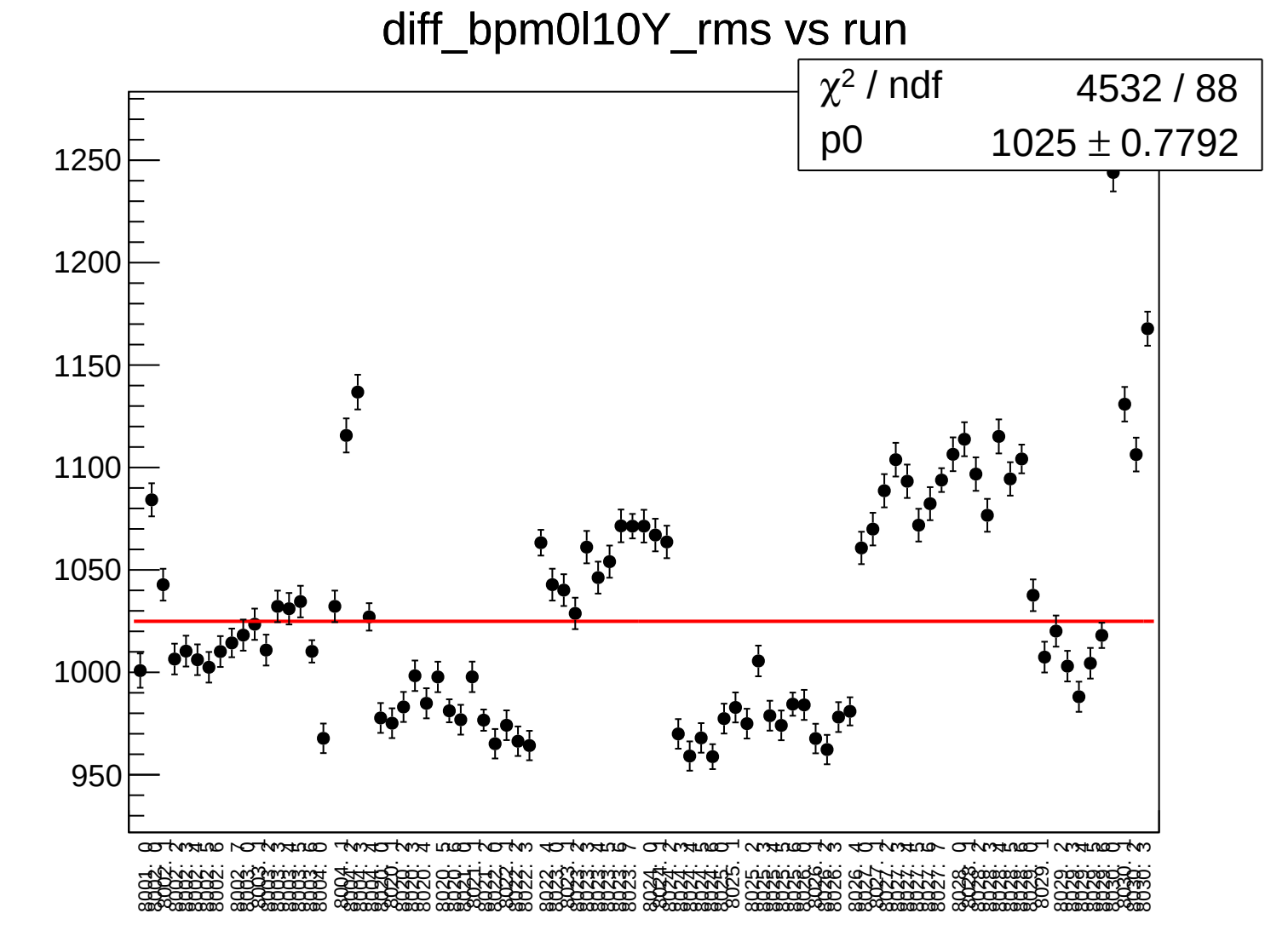

diff_bpm0l10X_mean vs run
χ^2 / ndf 82.05 / 88
p0 39.49 ± 6.928
200
100
0
−100
−200
pull
Entries 89
Mean 157
Std Dev 0
2
1
0
−1
−2

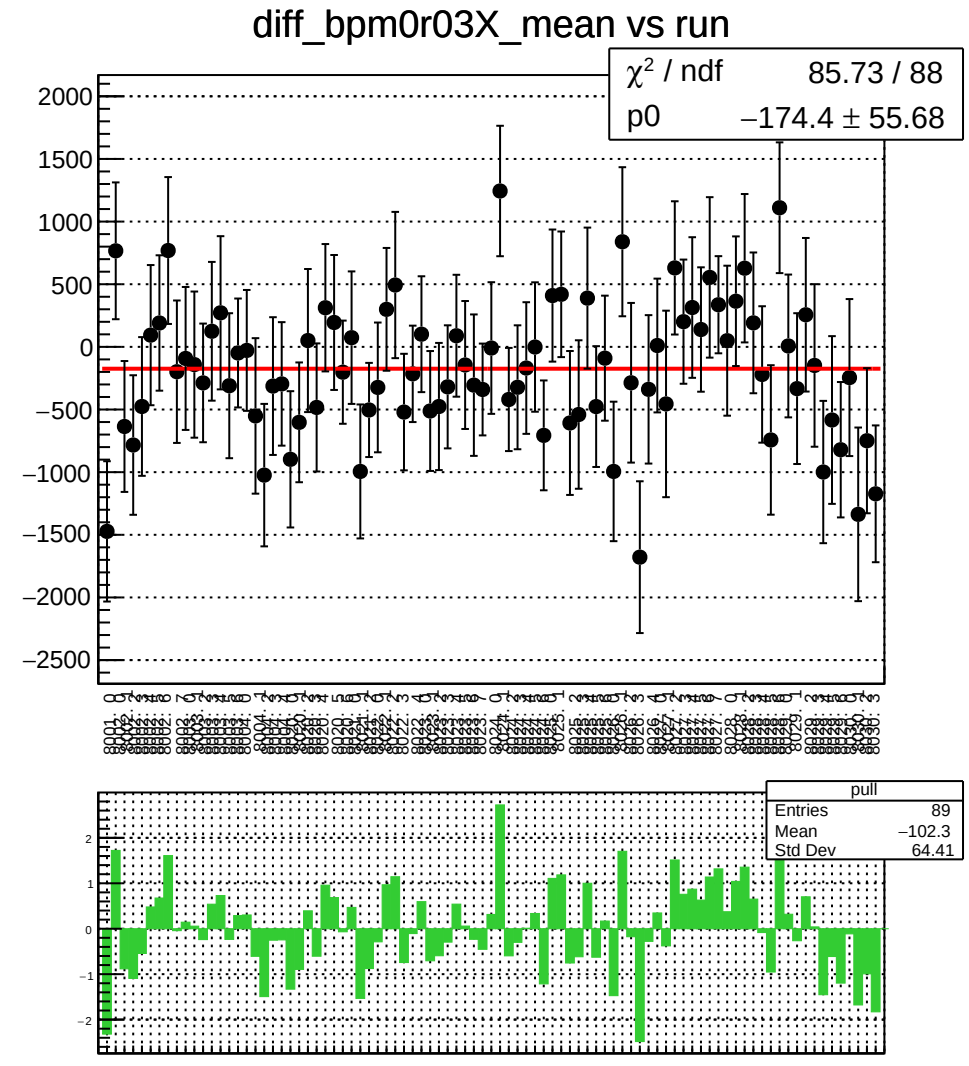

pull1D
Entries 89
Mean −0.0007673
Std Dev 0.9602
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

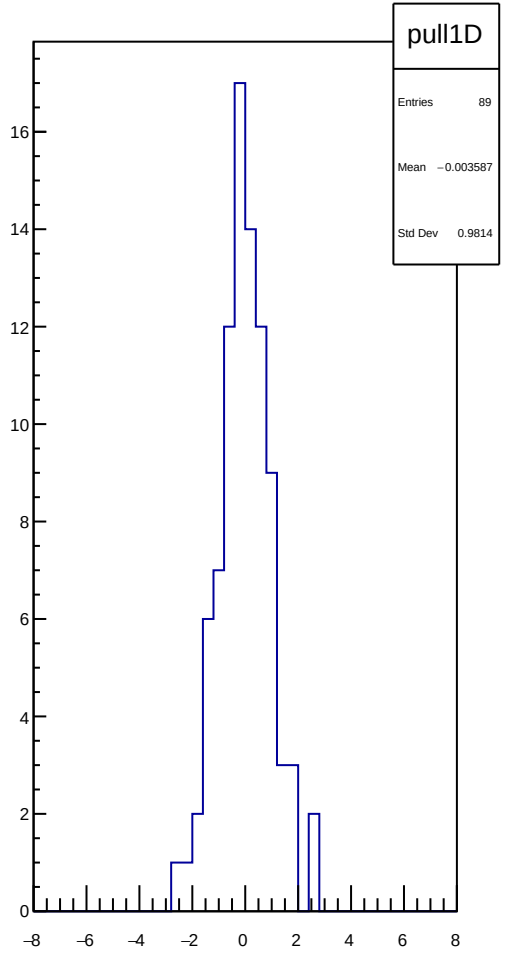

diff_bpm0l10X_rms vs run
χ² / ndf 1.357e+04 / 88
p0 6427 ± 4.899
9000
8000
7000
6000
5000

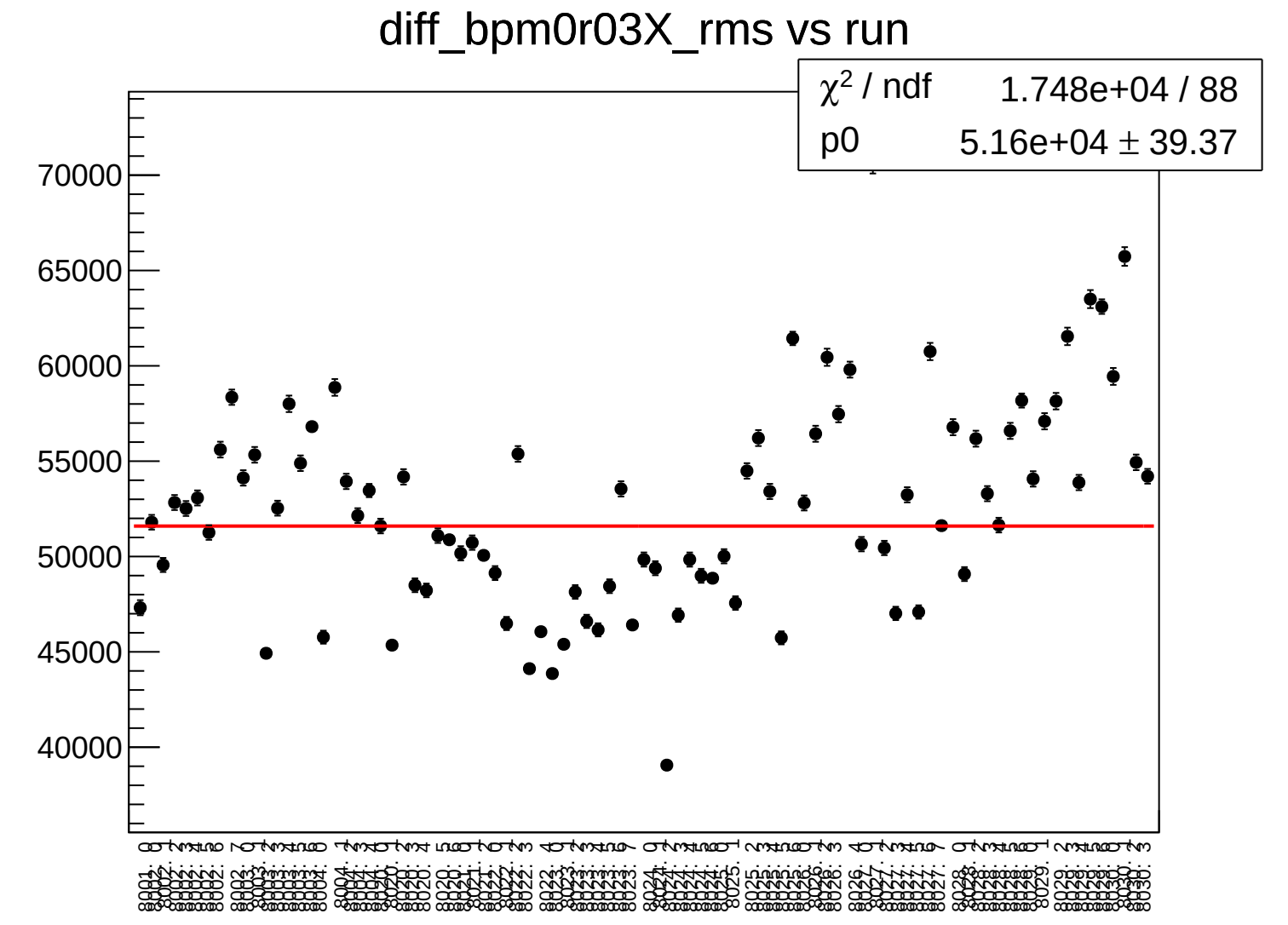

diff_bpm0l10Y_mean vs run
χ² / ndf 307.4 / 88
p0 −21.7 ± 1.102
pull
Entries 89
Mean 254.1
Std Dev 0

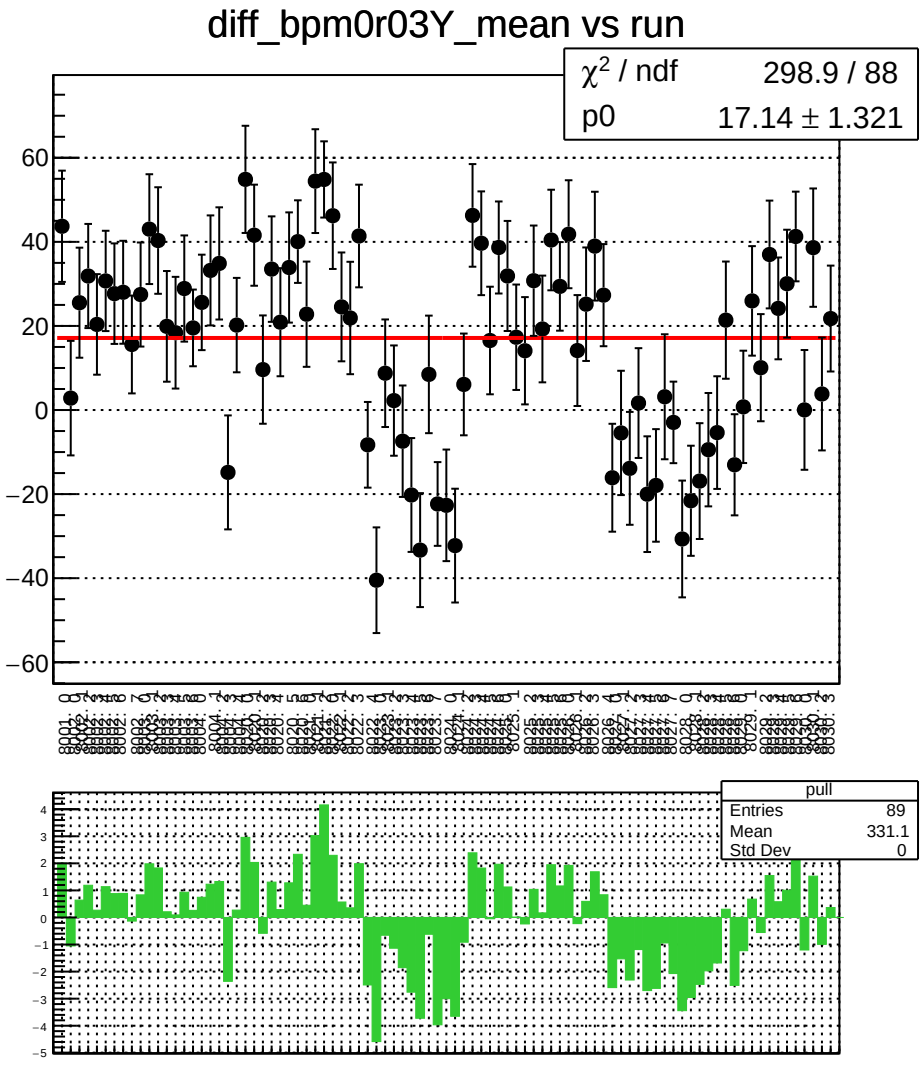

pull1D
Entries 89
Mean 0.07113
Std Dev 1.857

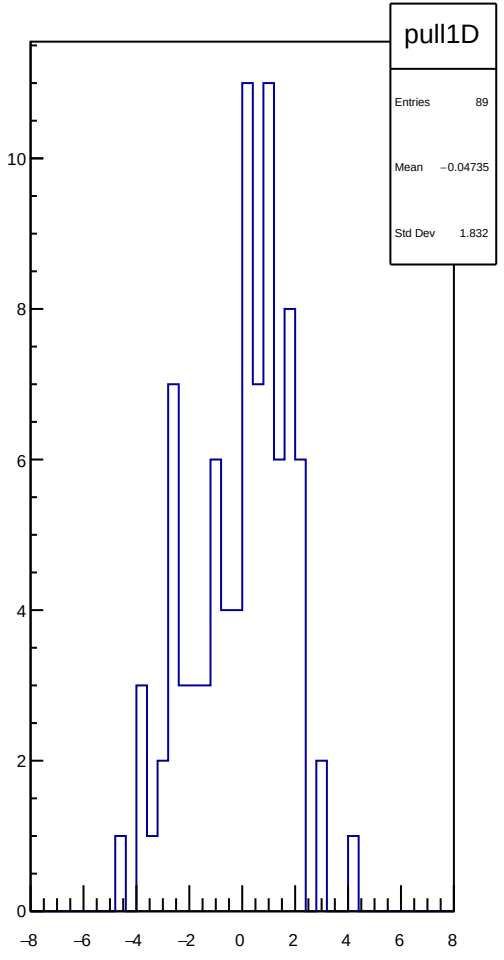

diff_bpm0l10Y_rms vs run
χ² / ndf 4532 / 88
p0 1025 ± 0.7792
1250
1200
1150
1100
1050
1000
950

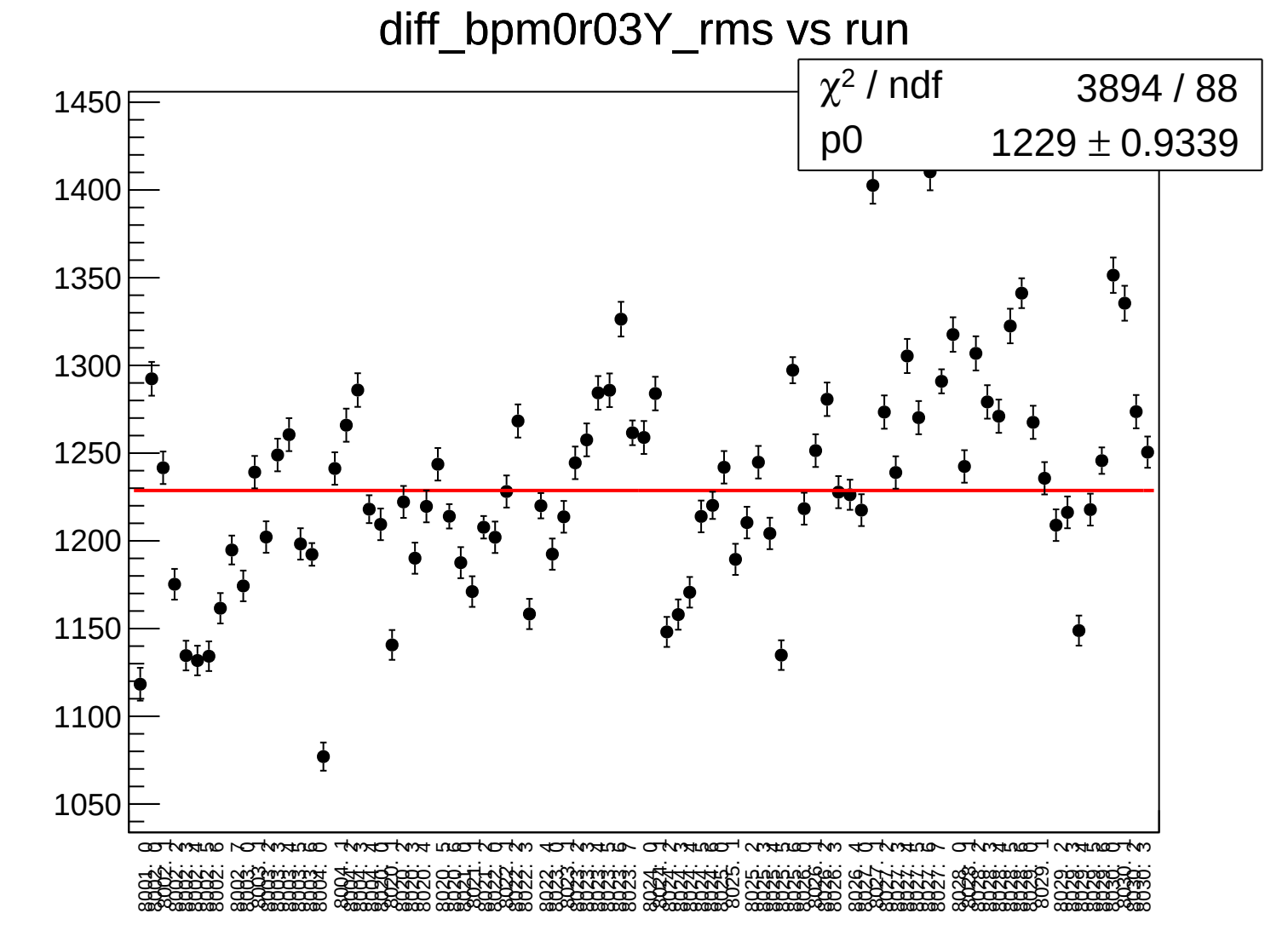

diff_bpm0r03X_mean vs run
χ² / ndf 85.73 / 88
p0 −174.4 ± 55.68
pull
Entries 89
Mean −102.3
Std Dev 64.41

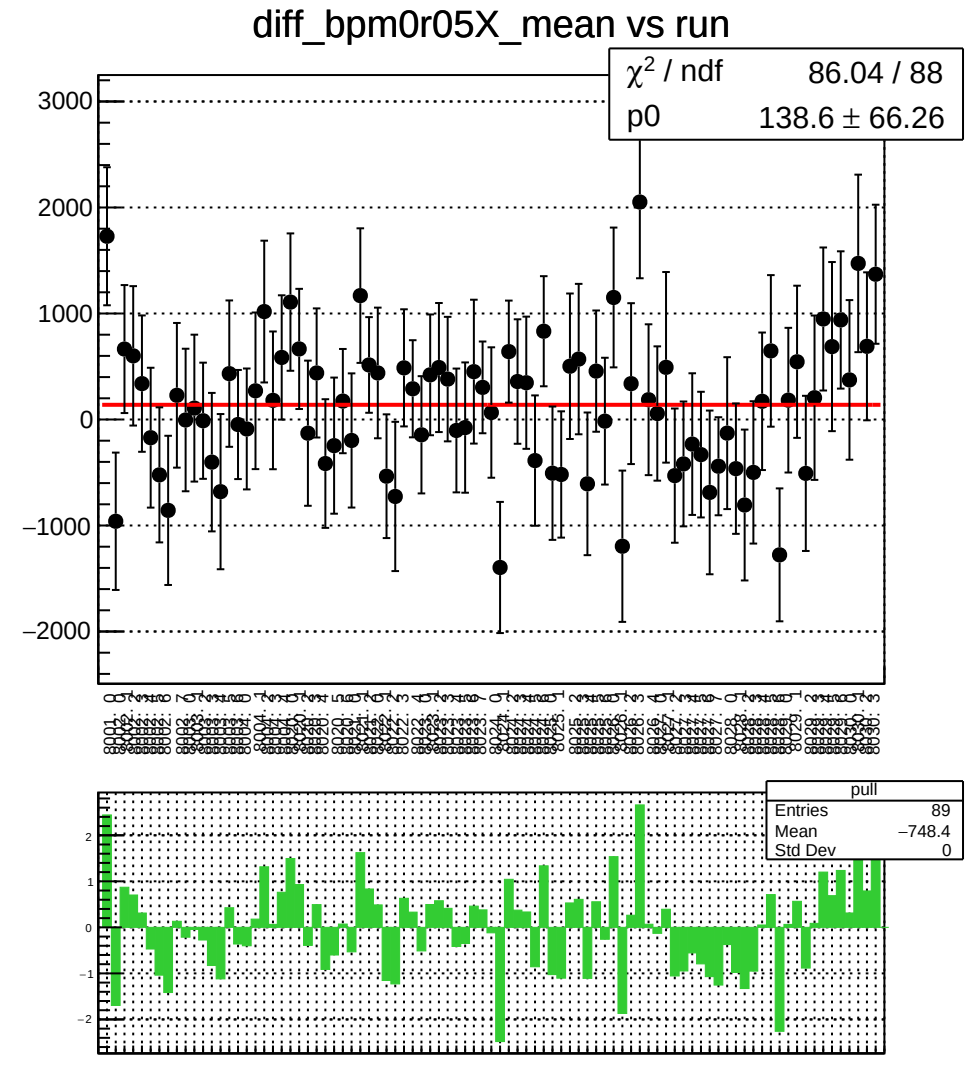

pull1D
Entries 89
Mean −0.003587
Std Dev 0.9814

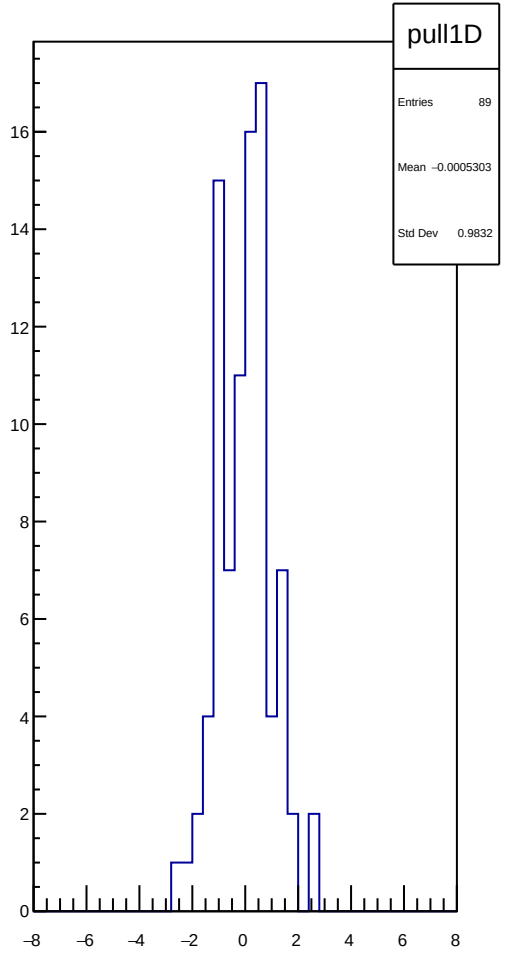

diff_bpm0r03X_rms vs run
χ^2 / ndf 1.748e+04 / 88
p0 5.16e+04 ± 39.37
70000
65000
60000
55000
50000
45000
40000

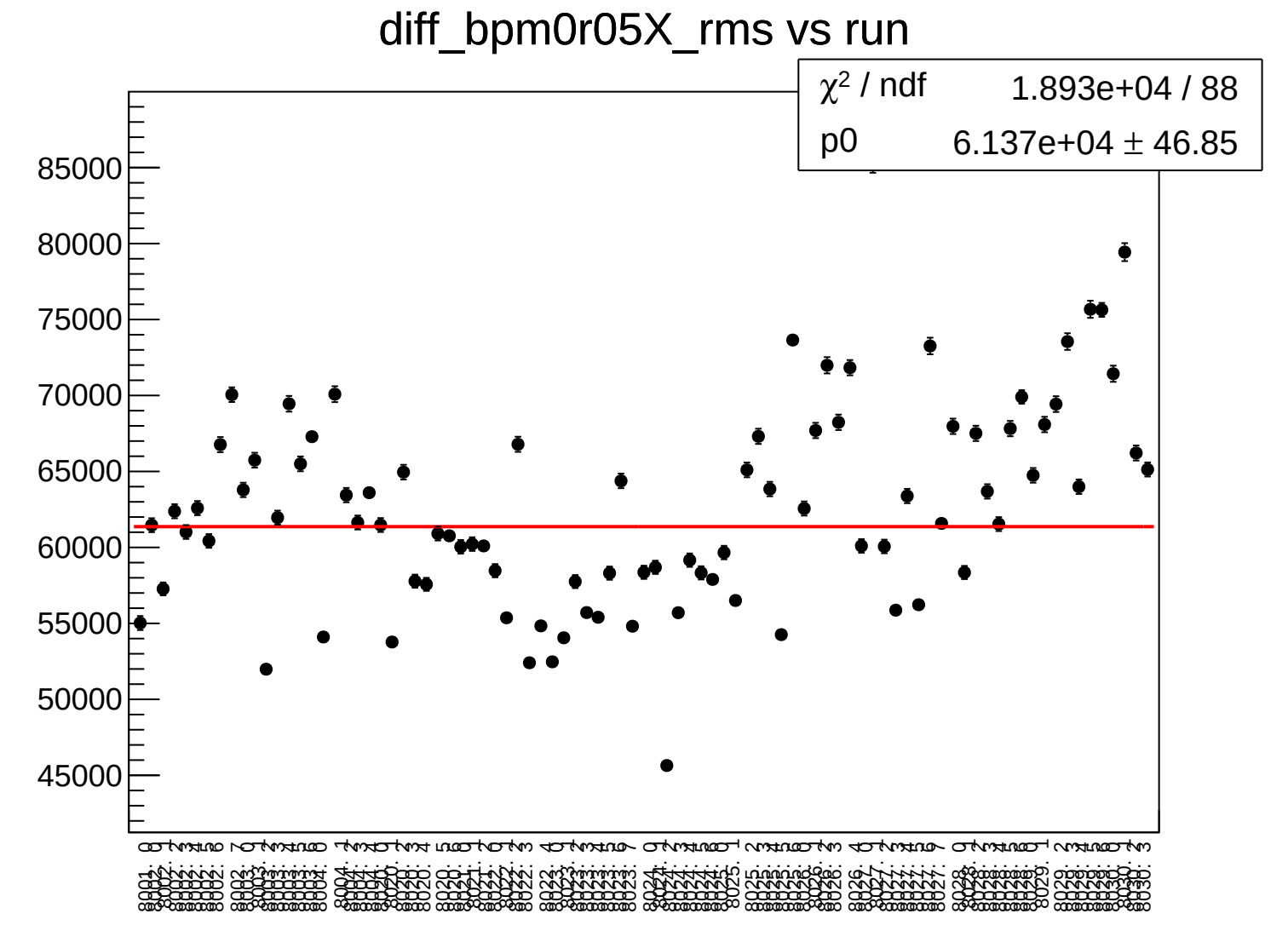

diff_bpm0r03Y_mean vs run
χ² / ndf 298.9 / 88
p0 17.14 ± 1.321
pull
Entries 89
Mean 331.1
Std Dev 0

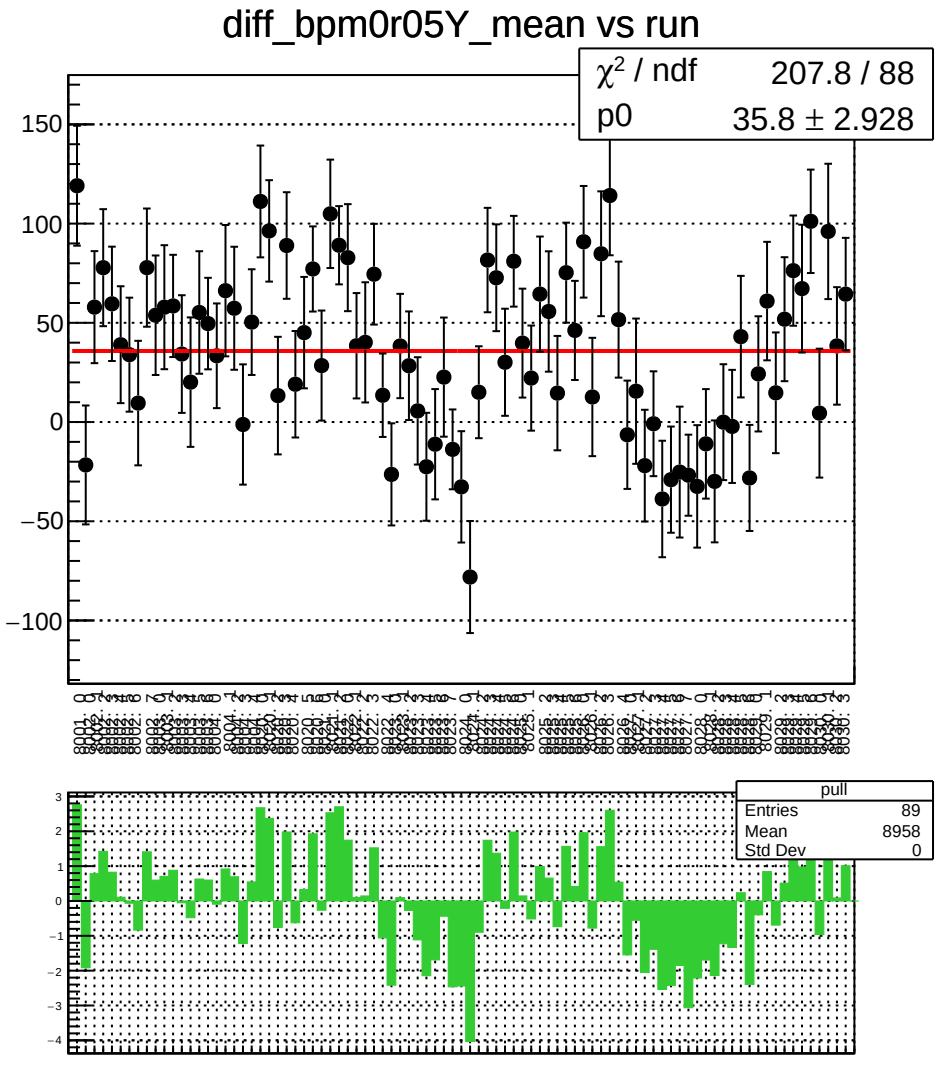

pull1D
Entries 89
Mean −0.04735
Std Dev 1.832

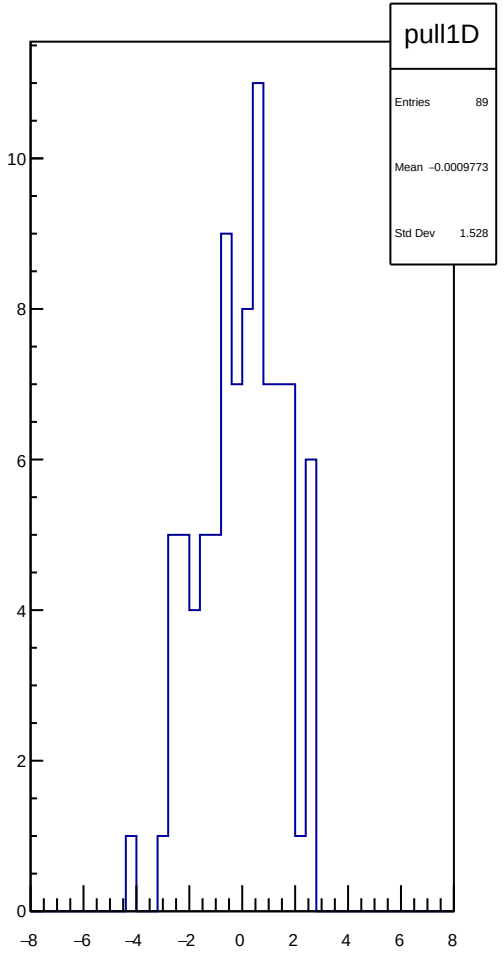

diff_bpm0r03Y_rms vs run
χ² / ndf 3894 / 88
p0 1229 ± 0.9339
1450
1400
1350
1300
1250
1200
1150
1100
1050

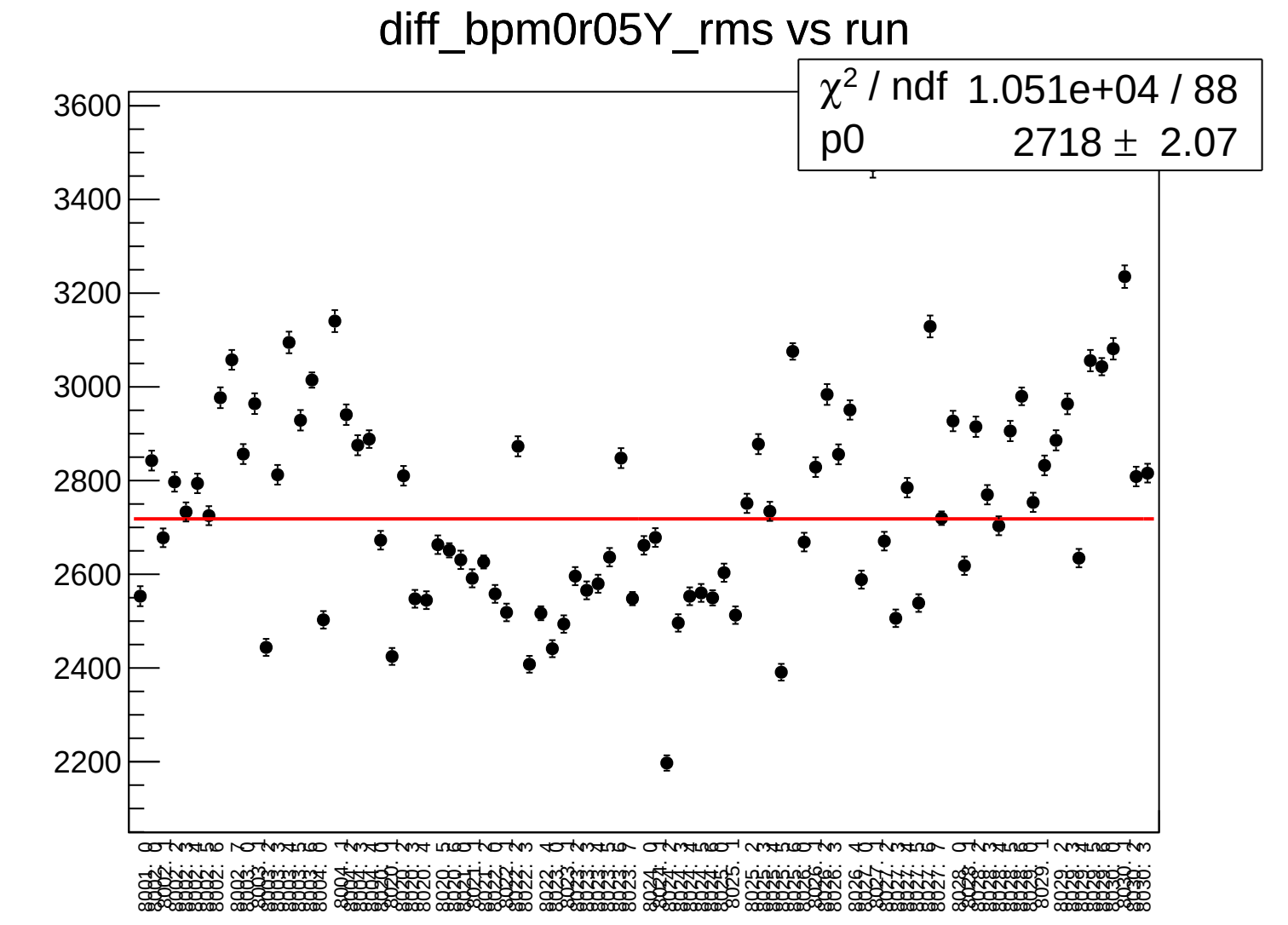

diff_bpm0r05X_mean vs run
χ² / ndf 86.04 / 88
p0 138.6 ± 66.26
3000
2000
1000
0
−1000
−2000
pull
Entries 89
Mean −748.4
Std Dev 0
2
1
0
−1
−2

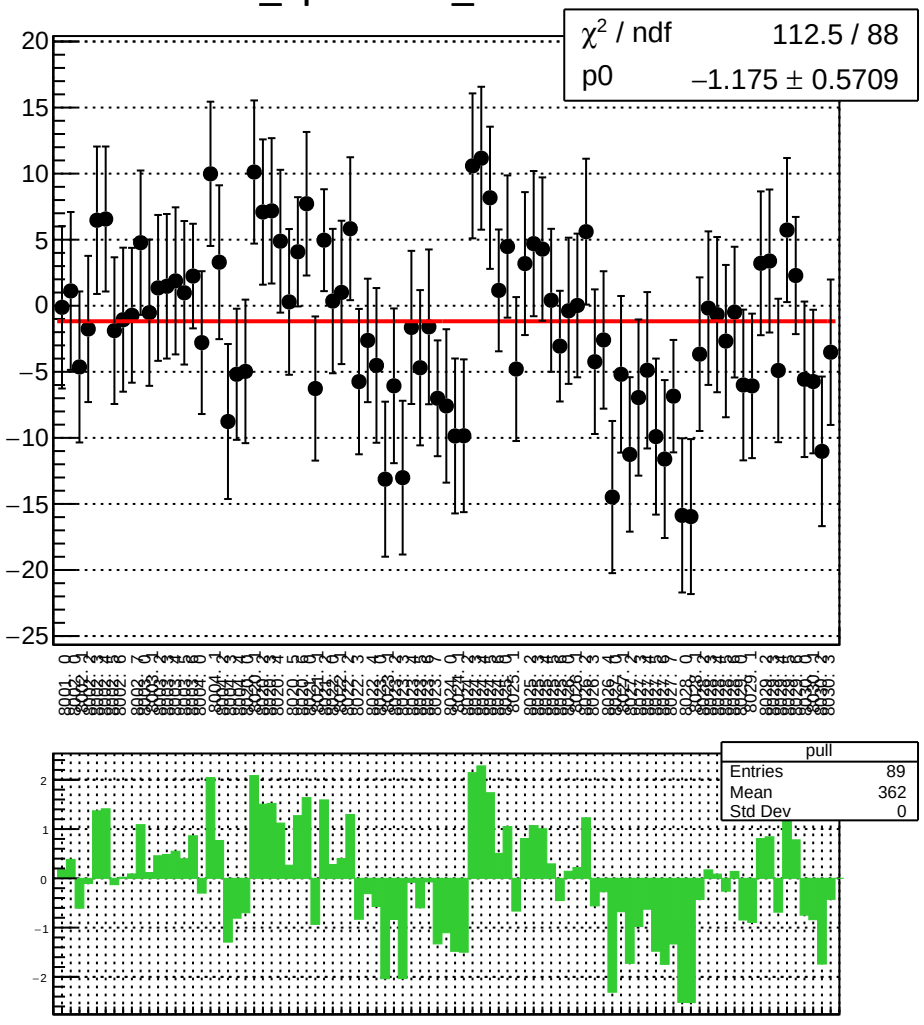

pull1D
Entries 89
Mean −0.0005303
Std Dev 0.9832
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

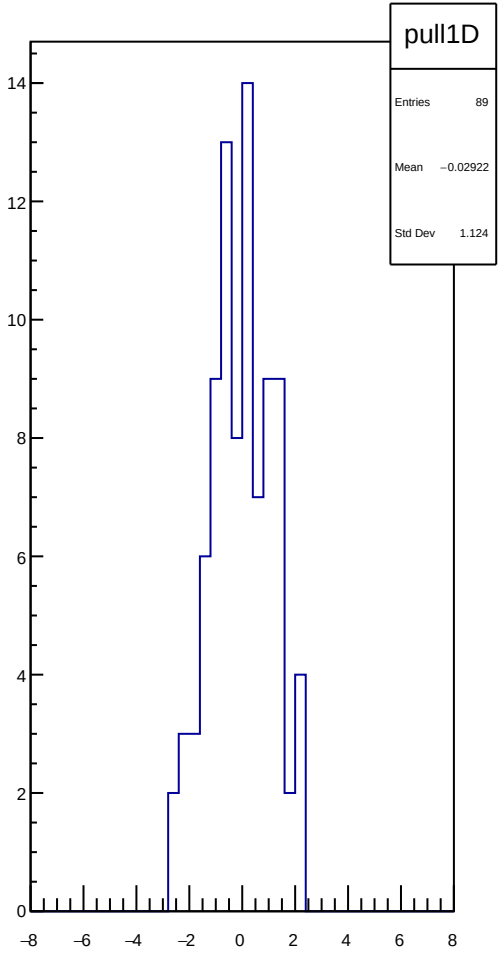

diff_bpm0r05X_rms vs run
χ² / ndf 1.893e+04 / 88
p0 6.137e+04 ± 46.85
85000
80000
75000
70000
65000
60000
55000
50000
45000

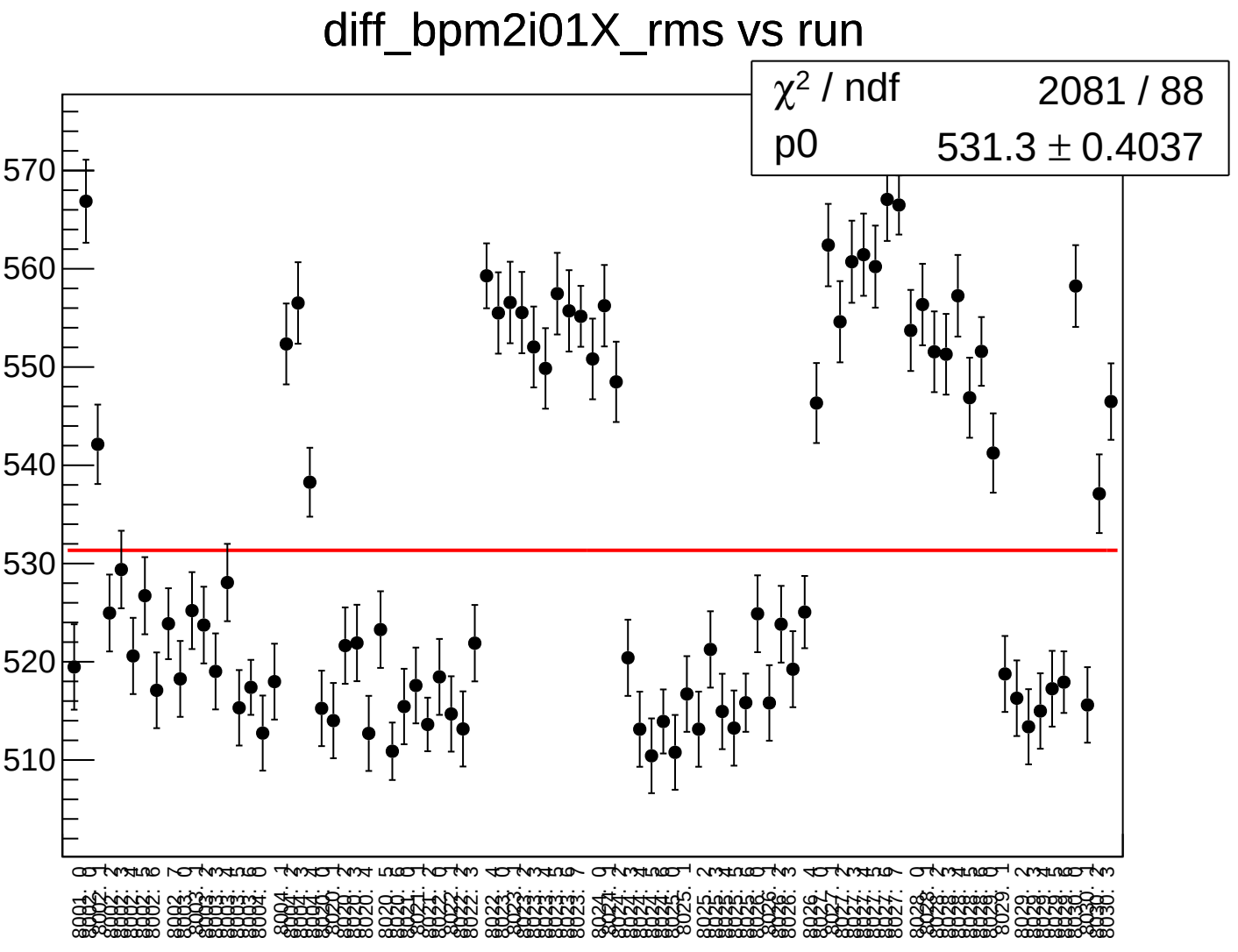

diff_bpm0r05Y_mean vs run
χ² / ndf 207.8 / 88
p0 35.8 ± 2.928
150
100
50
0
−50
−100
pull
Entries 89
Mean 8958
Std Dev 0
3
2
1
0
−1
−2
−3
−4

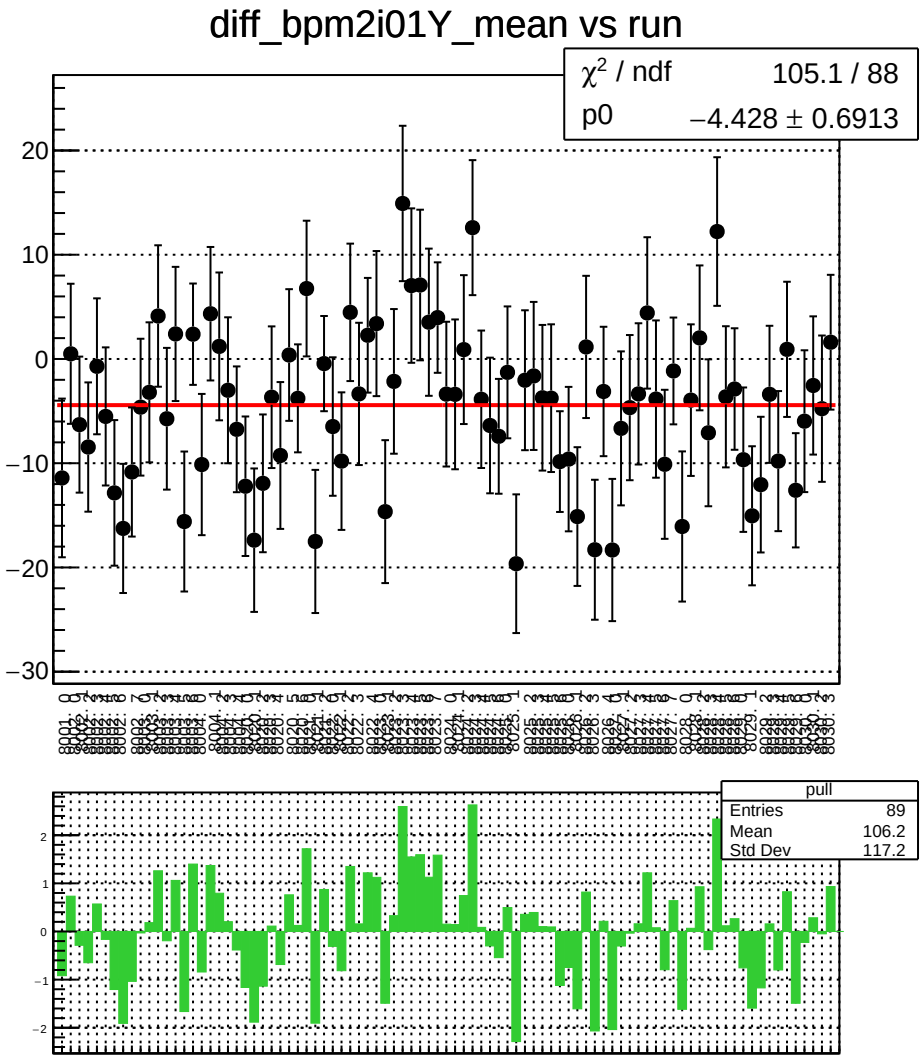

pull1D
Entries 89
Mean −0.0009773
Std Dev 1.528
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

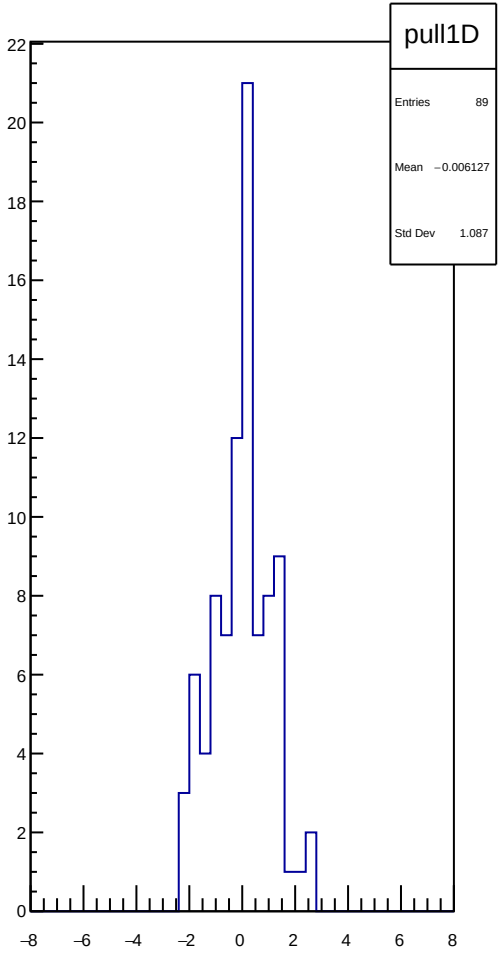

diff_bpm0r05Y_rms vs run
χ² / ndf 1.051e+04 / 88
p0 2718 ± 2.07
3600
3400
3200
3000
2800
2600
2400
2200

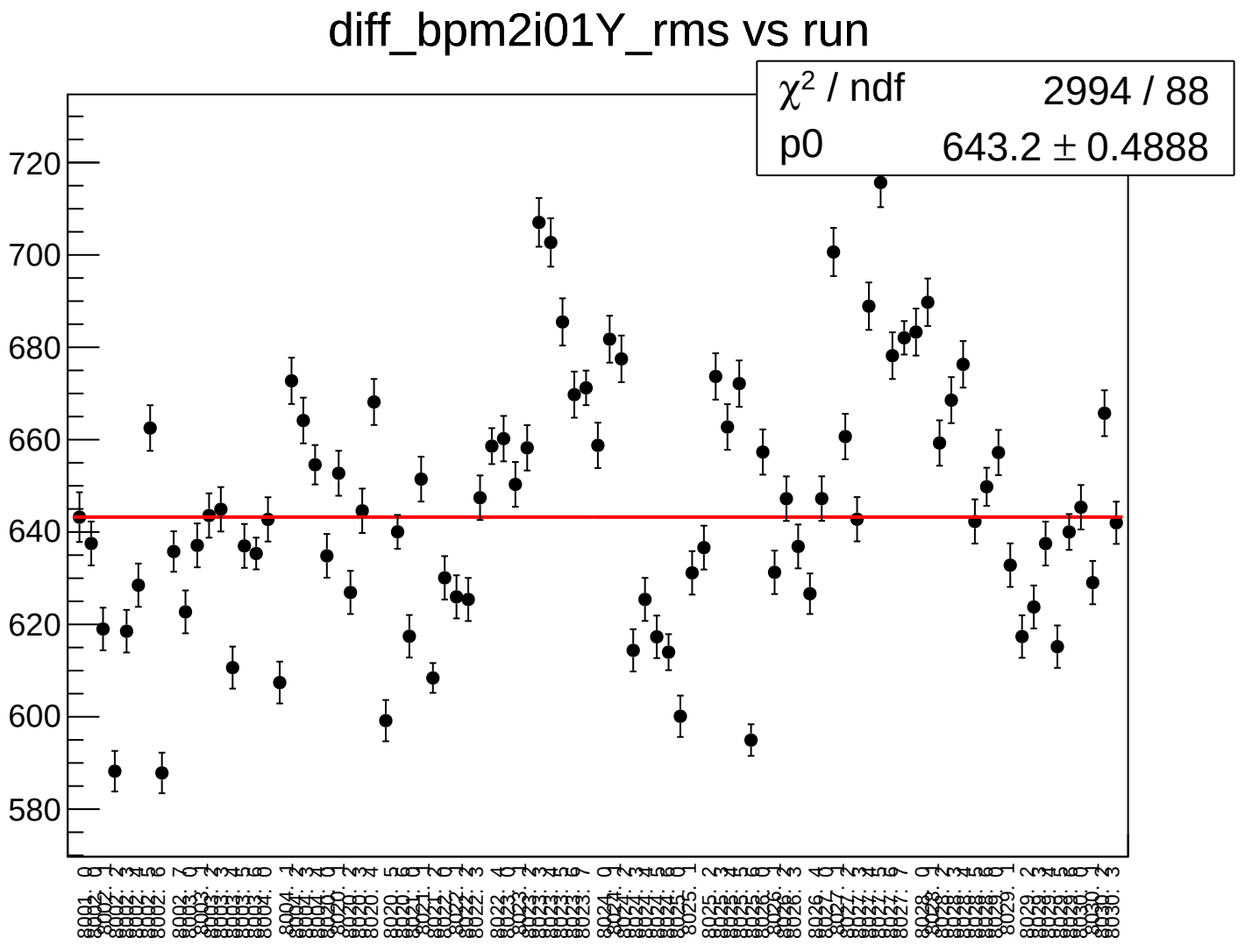

diff_bpm2i01X_mean vs run
χ² / ndf 112.5 / 88
p0 −1.175 ± 0.5709
pull
Entries 89
Mean 362
Std Dev 0

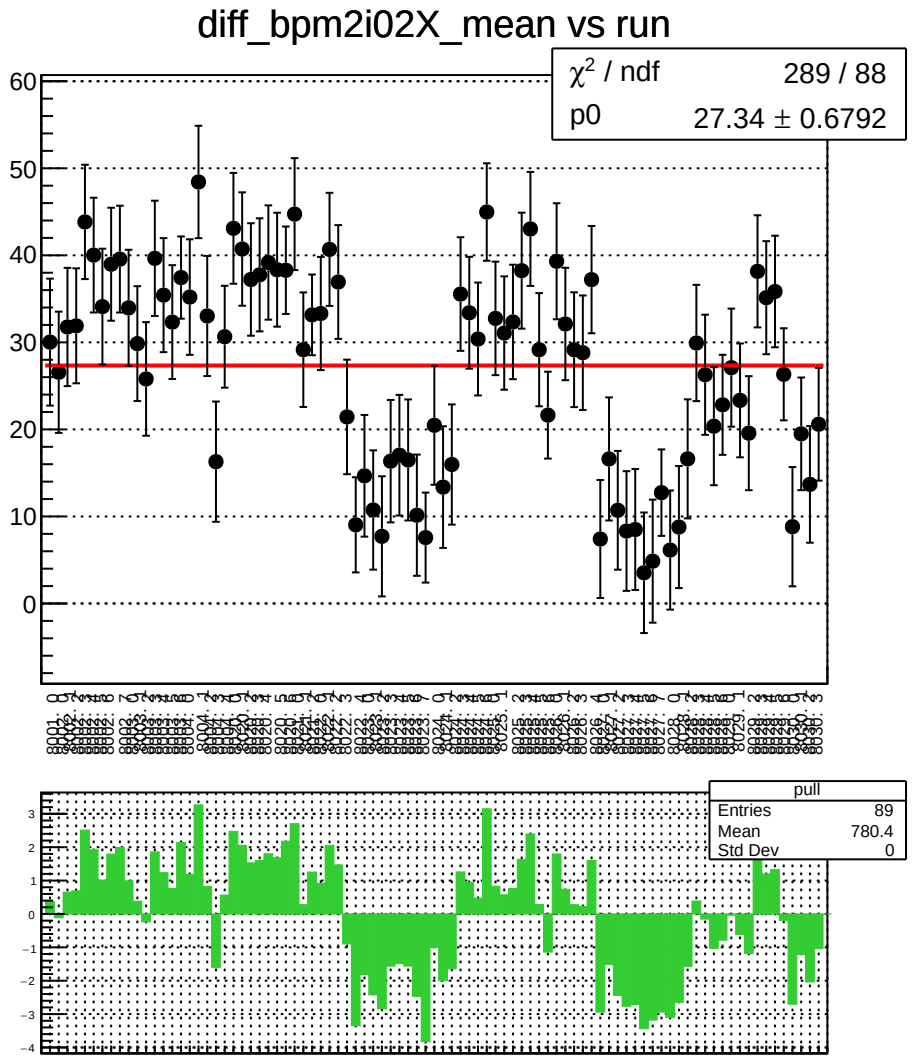

pull1D
Entries 89
Mean −0.02922
Std Dev 1.124

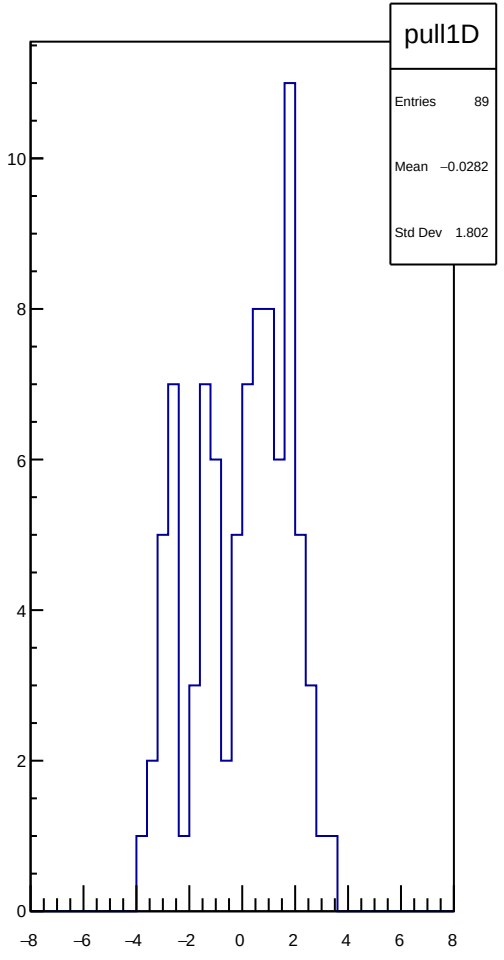

diff_bpm2i01X_rms vs run
χ^2 / ndf 2081 / 88
p0 531.3 ± 0.4037
570
560
550
540
530
520
510

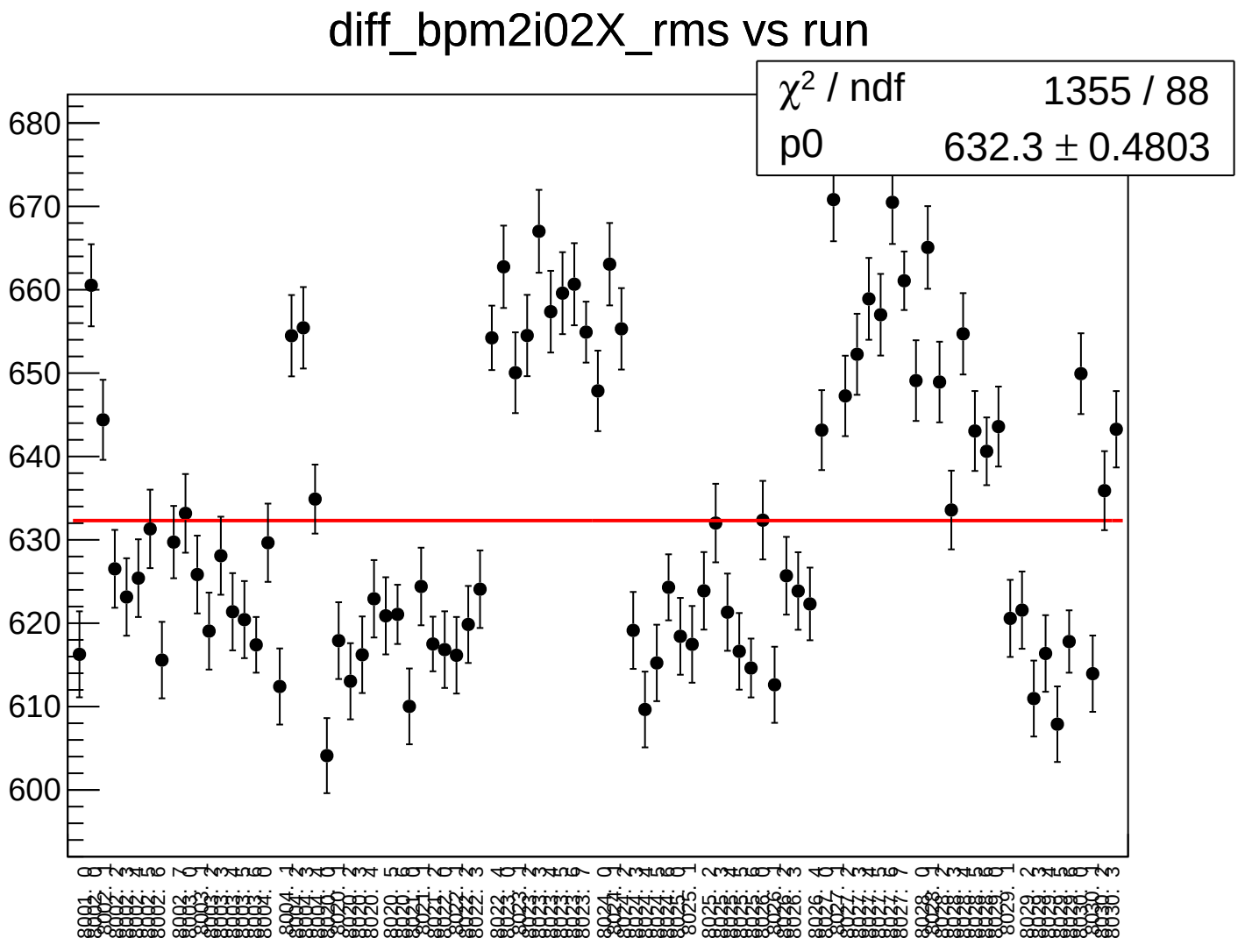

diff_bpm2i01Y_mean vs run
χ² / ndf 105.1 / 88
p0 −4.428 ± 0.6913
pull
Entries 89
Mean 106.2
Std Dev 117.2

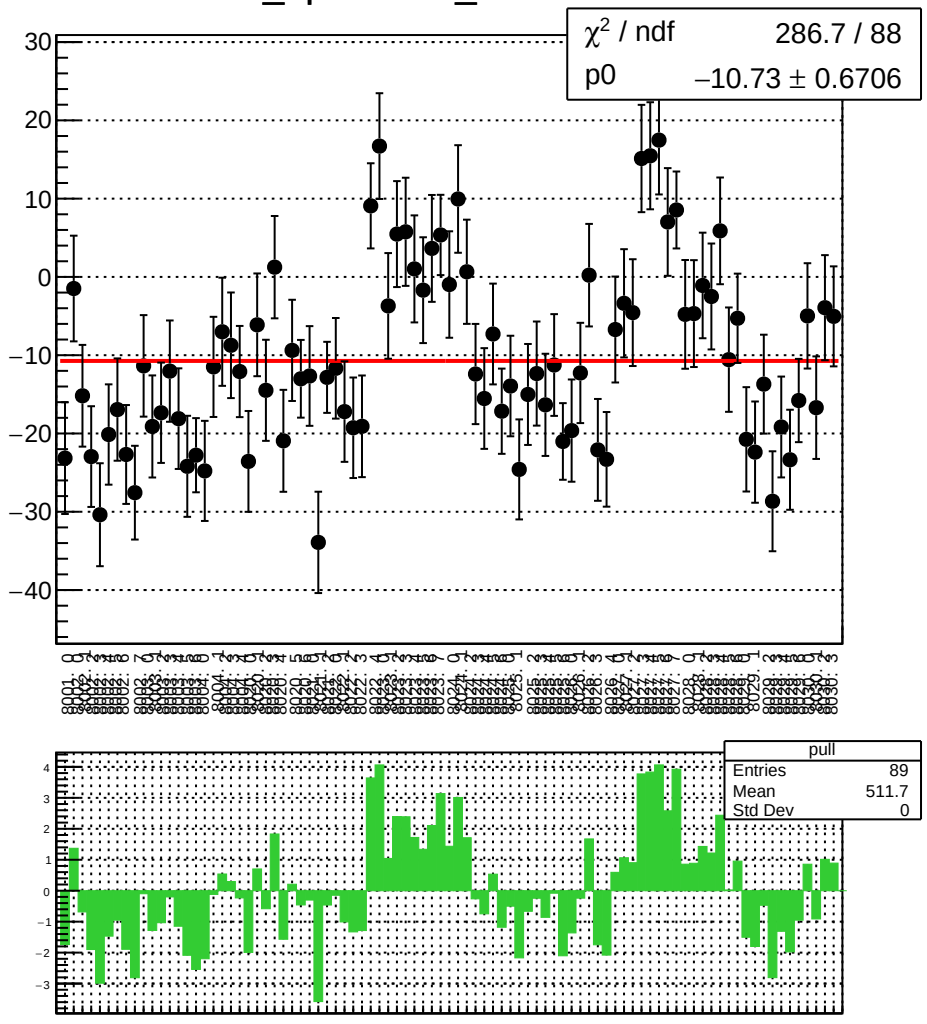

pull1D
Entries 89
Mean −0.006127
Std Dev 1.087

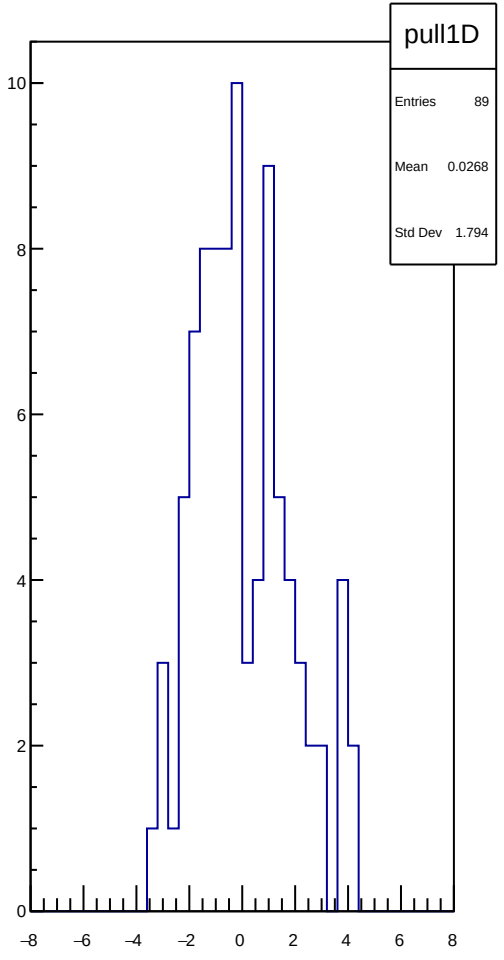

diff_bpm2i01Y_rms vs run
χ² / ndf 2994 / 88
p0 643.2 ± 0.4888
720
700
680
660
640
620
600
580

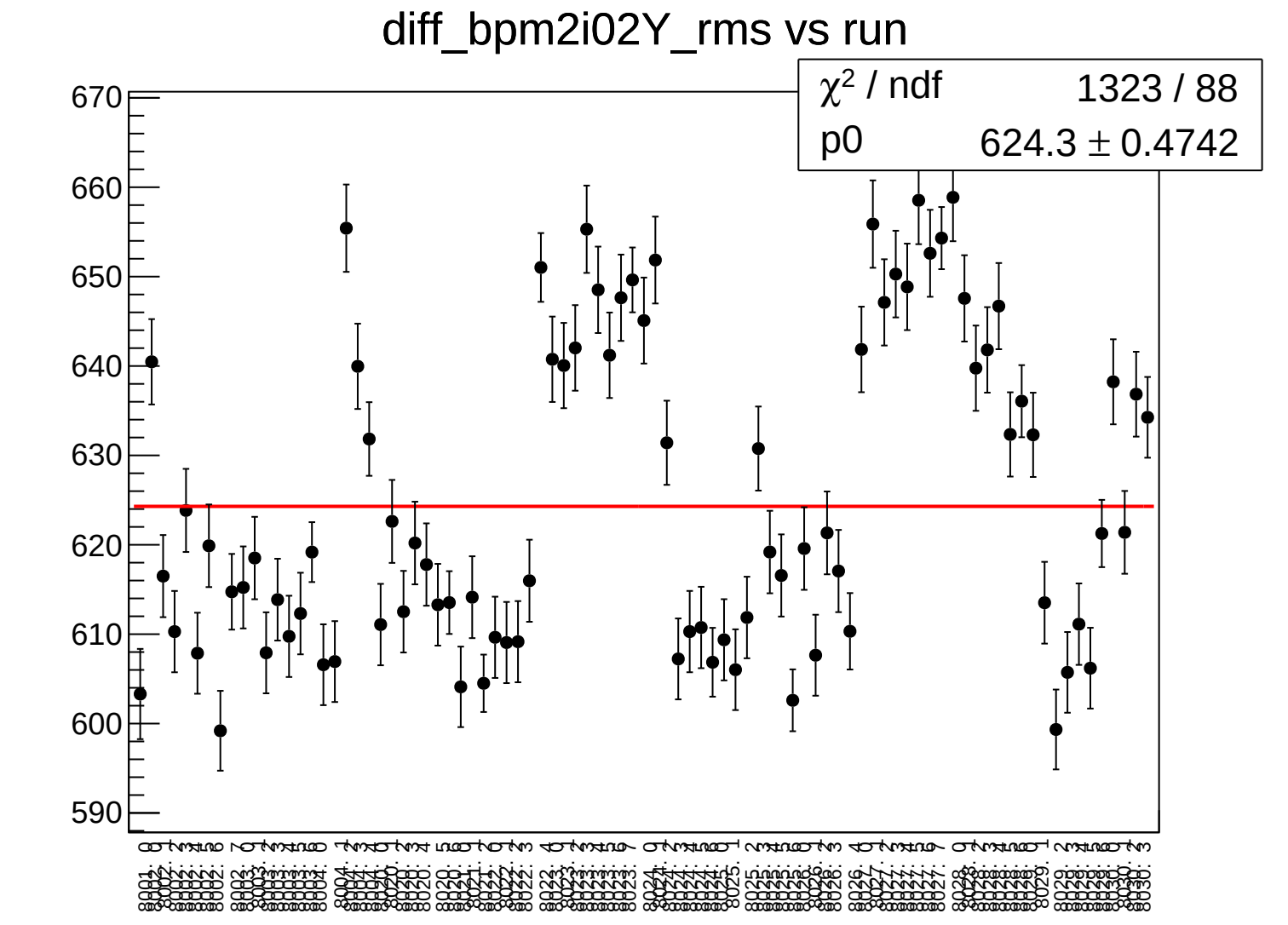

diff_bpm2i02X_mean vs run
χ^2 / ndf 289 / 88
p0 27.34 ± 0.6792
pull
Entries 89
Mean 780.4
Std Dev 0

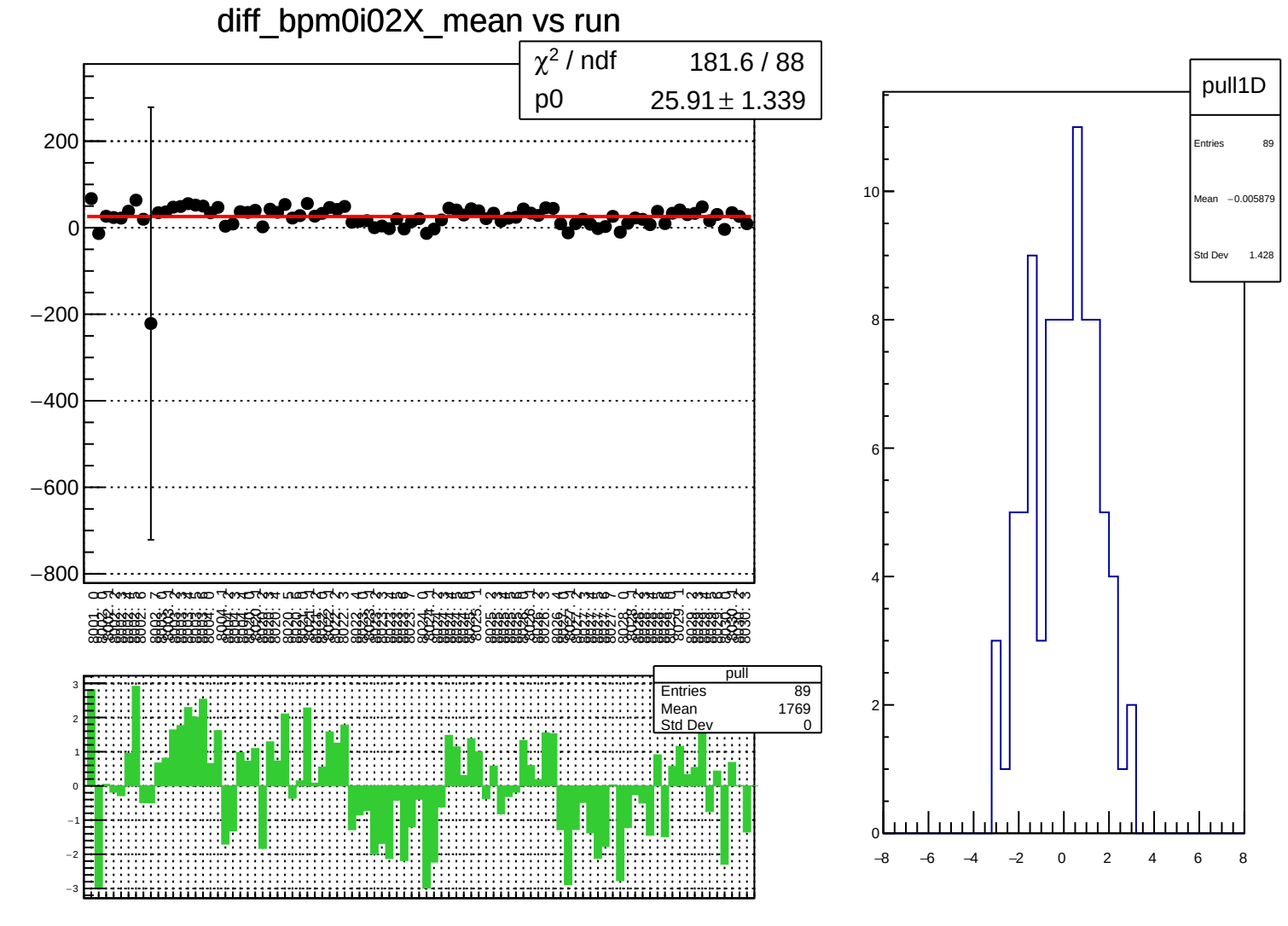

pull1D
Entries 89
Mean −0.0282
Std Dev 1.802

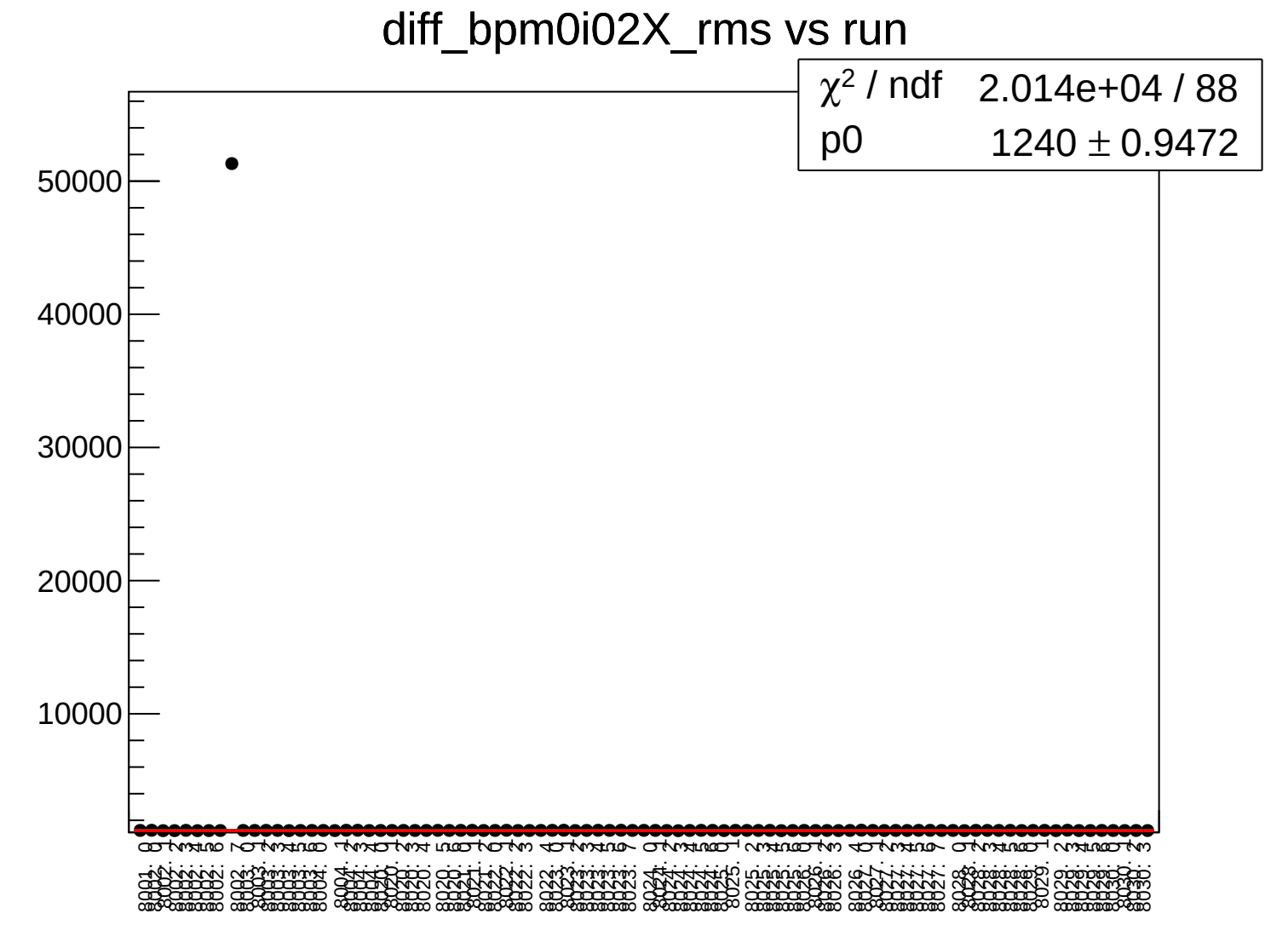

diff_bpm2i02X_rms vs run
χ² / ndf 1355 / 88
p0 632.3 ± 0.4803
680
670
660
650
640
630
620
610
600

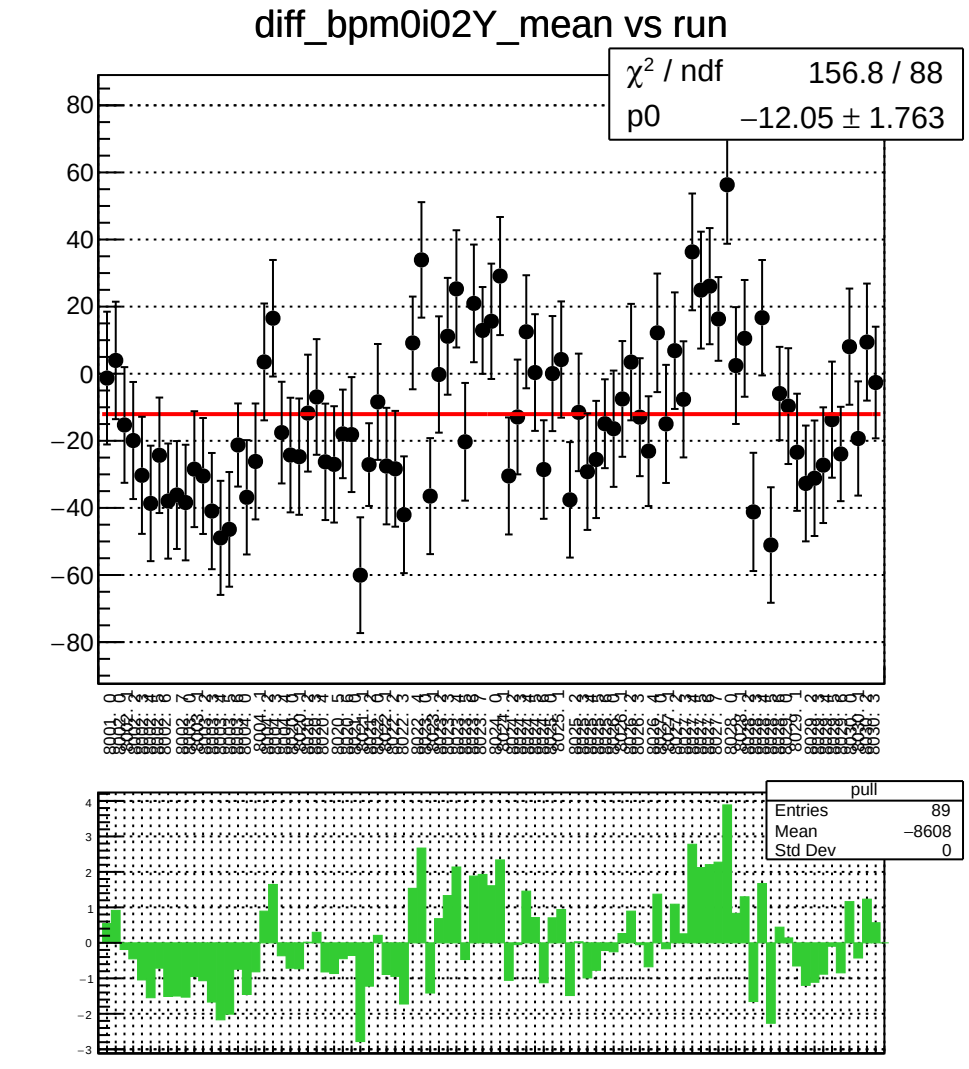

diff_bpm2i02Y_mean vs run
χ² / ndf 286.7 / 88
p0 −10.73 ± 0.6706
pull
Entries 89
Mean 511.7
Std Dev 0

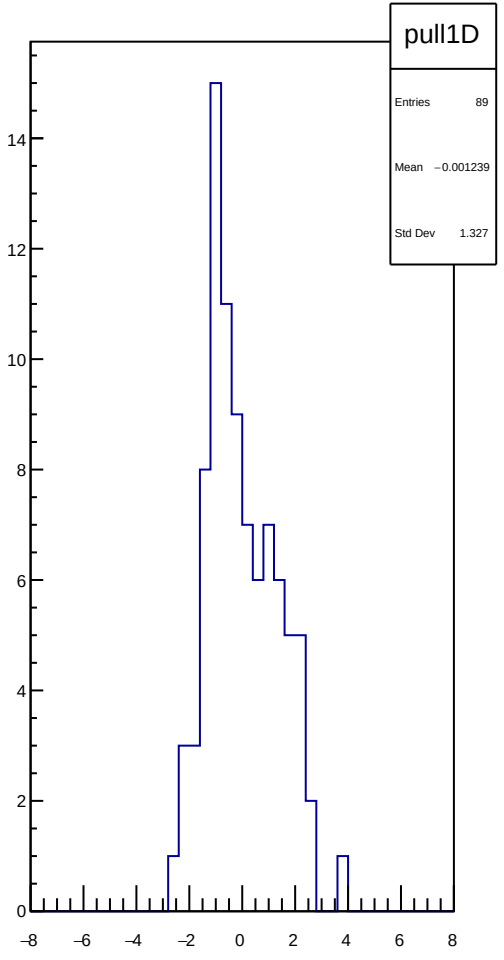

pull1D
Entries 89
Mean 0.0268
Std Dev 1.794

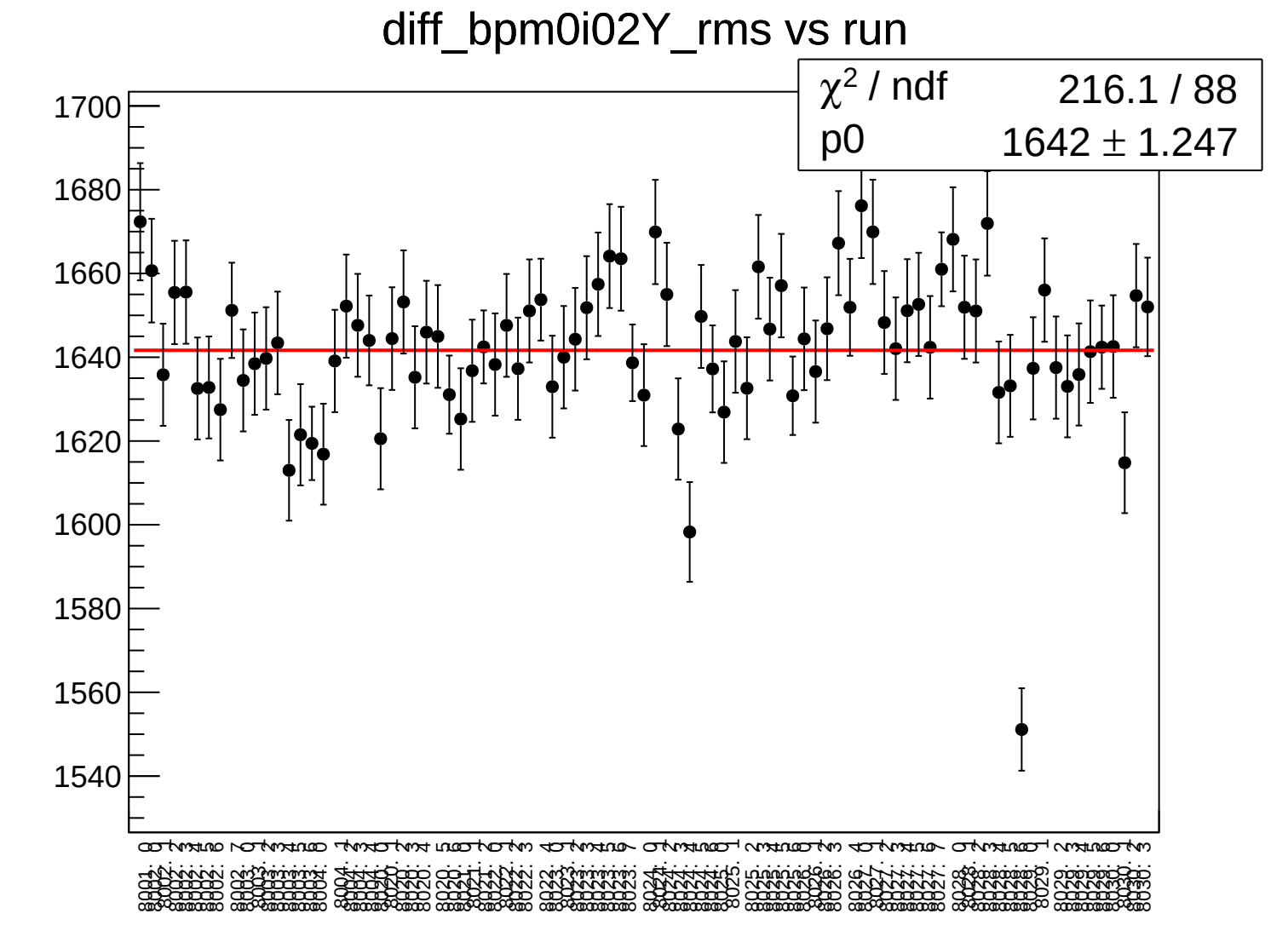

diff_bpm2i02Y_rms vs run
χ^2 / ndf 1323 / 88
p0 624.3 ± 0.4742
670
660
650
640
630
620
610
600
590

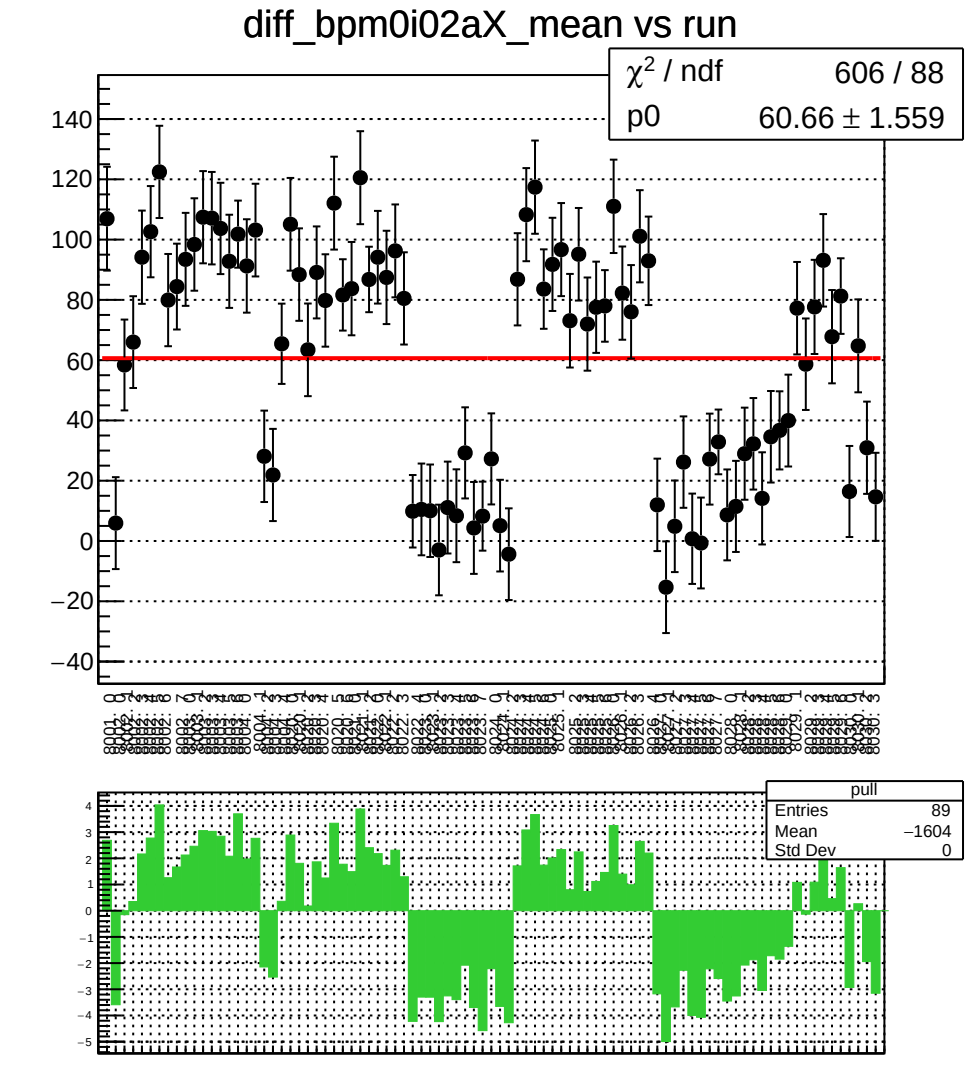

diff_bpm0i02X_mean vs run
χ² / ndf 181.6 / 88
p0 25.91 ± 1.339
200
0
−200
−400
−600
−800
pull
Entries 89
Mean 1769
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.005879
Std Dev 1.428
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

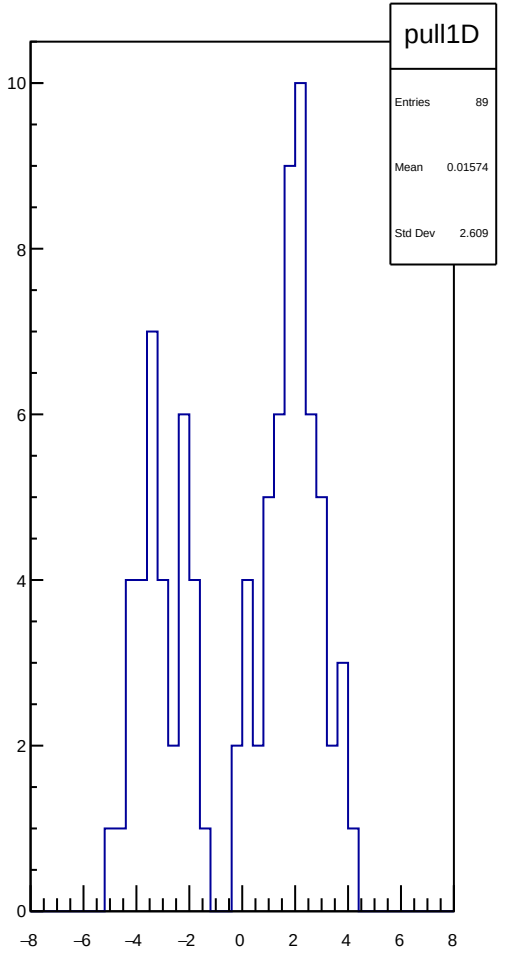

diff_bpm0i02X_rms vs run
χ² / ndf 2.014e+04 / 88
p0 1240 ± 0.9472
50000
40000
30000
20000
10000

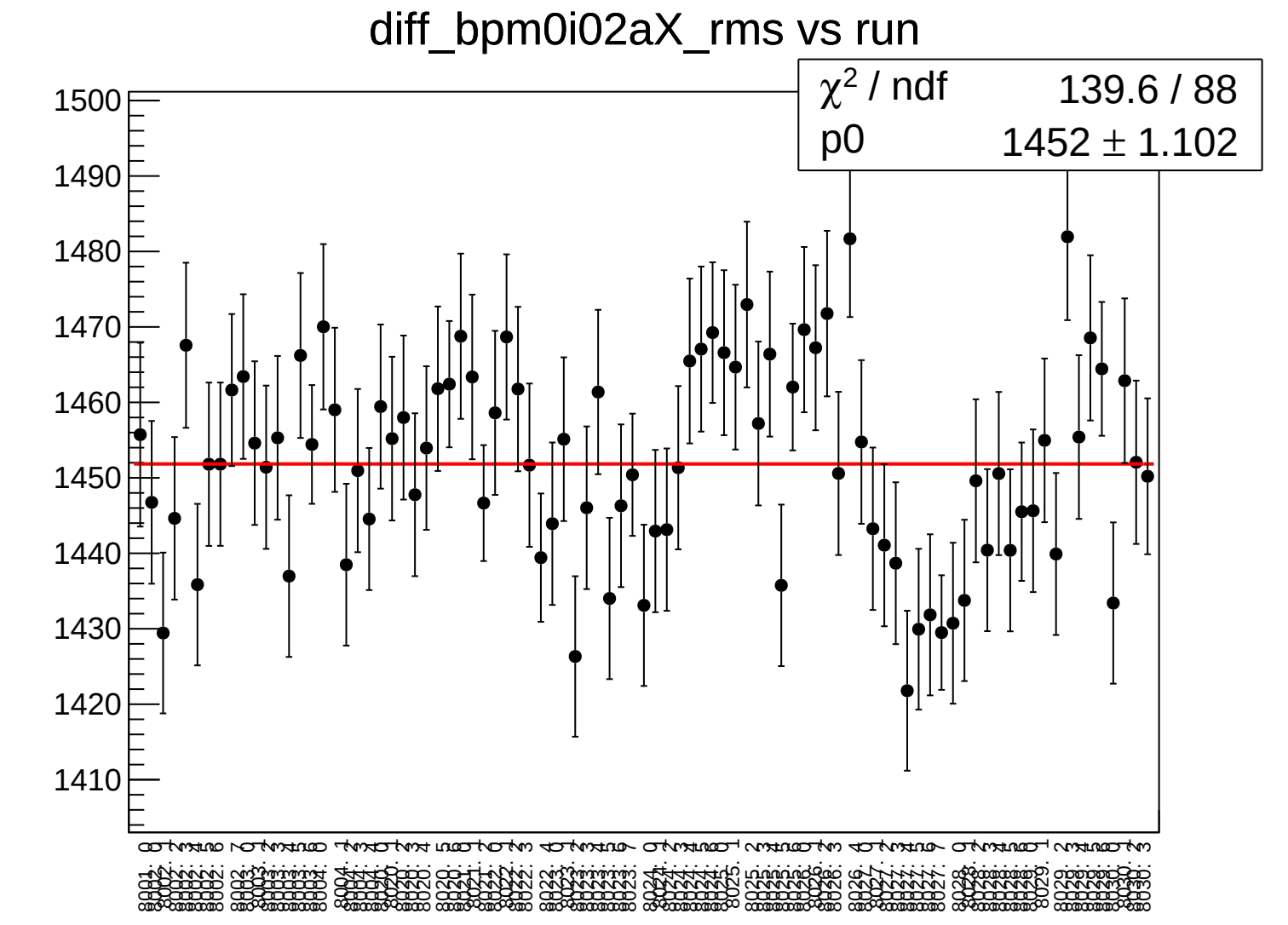

diff_bpm0i02Y_mean vs run
χ² / ndf 156.8 / 88
p0 −12.05 ± 1.763
pull
Entries 89
Mean −8608
Std Dev 0

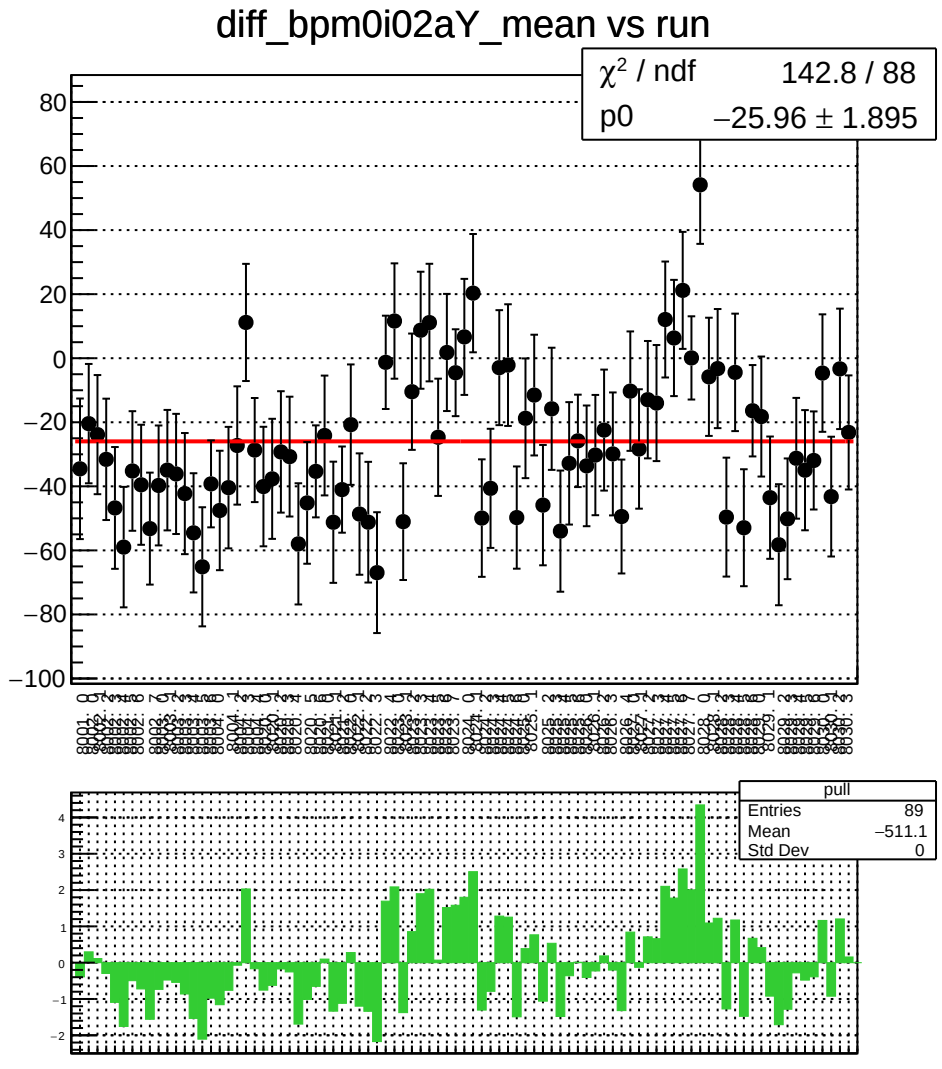

pull1D
Entries 89
Mean −0.001239
Std Dev 1.327

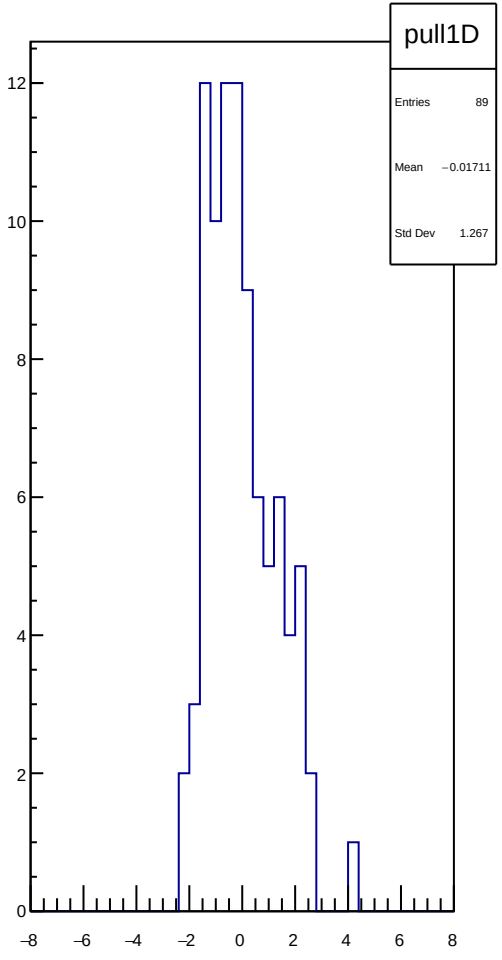

diff_bpm0i02Y_rms vs run
χ² / ndf 216.1 / 88
p0 1642 ± 1.247
1700
1680
1660
1640
1620
1600
1580
1560
1540

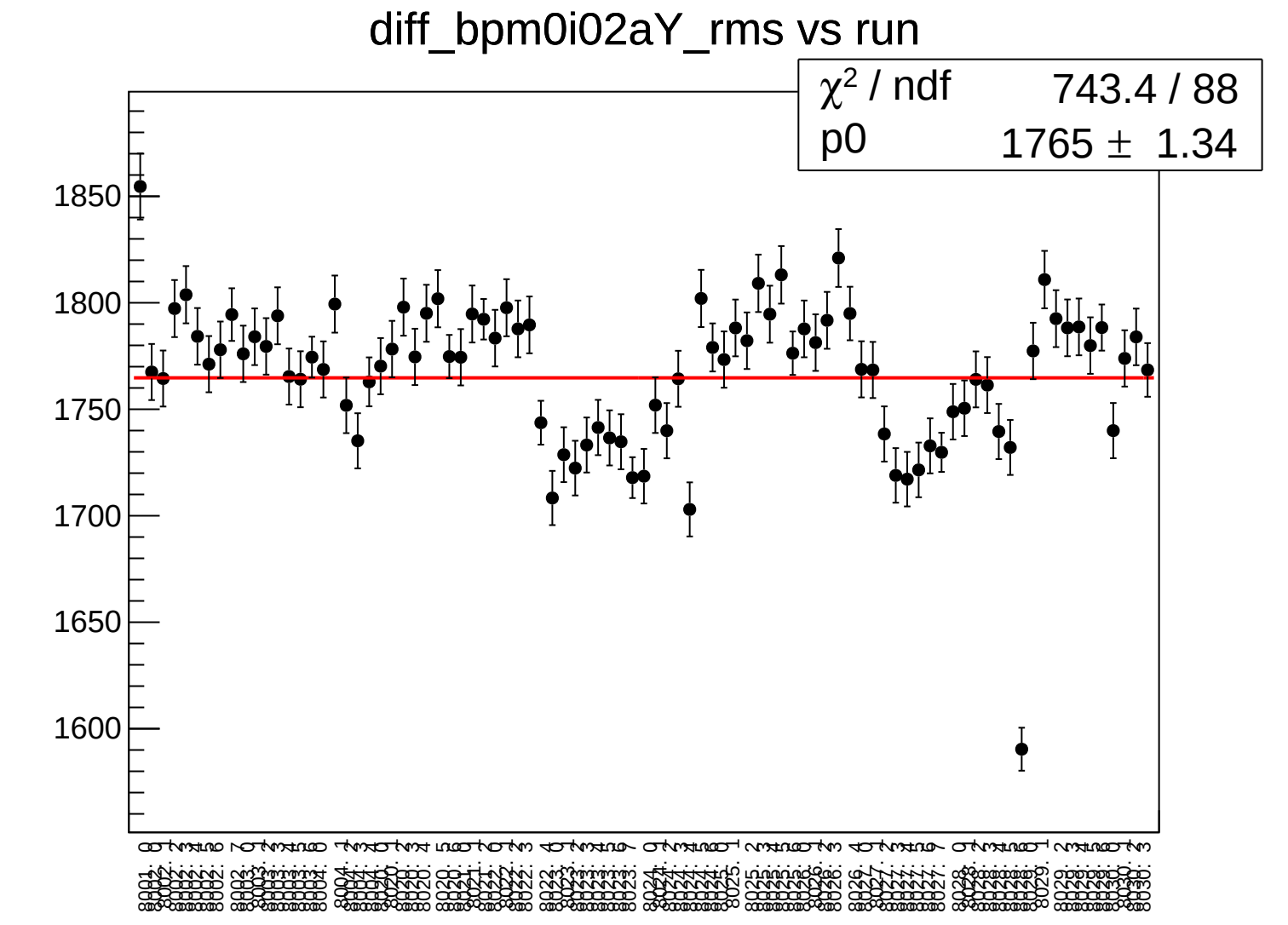

diff_bpm0i02aX_mean vs run
χ² / ndf 606 / 88
p0 60.66 ± 1.559
pull
Entries 89
Mean −1604
Std Dev 0

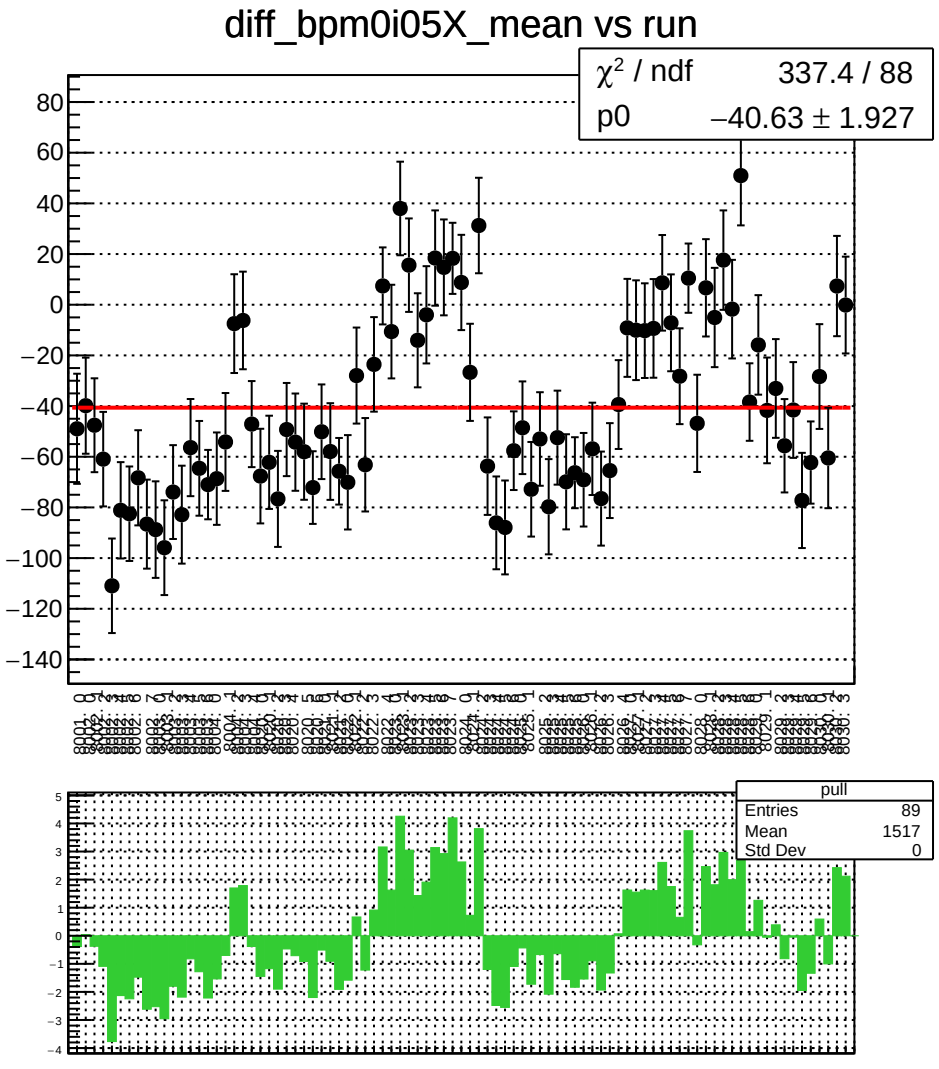

pull1D
Entries 89
Mean 0.01574
Std Dev 2.609

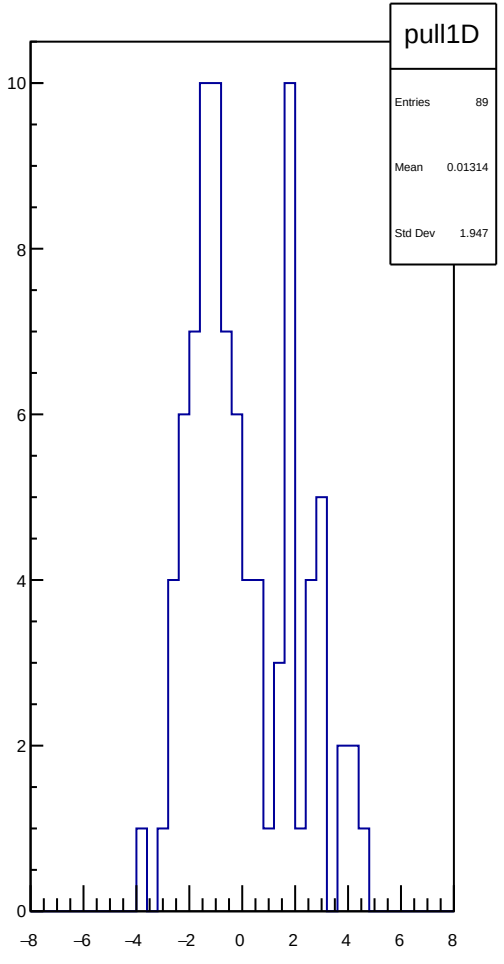

diff_bpm0i02aX_rms vs run
χ² / ndf 139.6 / 88
p0 1452 ± 1.102
1500
1490
1480
1470
1460
1450
1440
1430
1420
1410

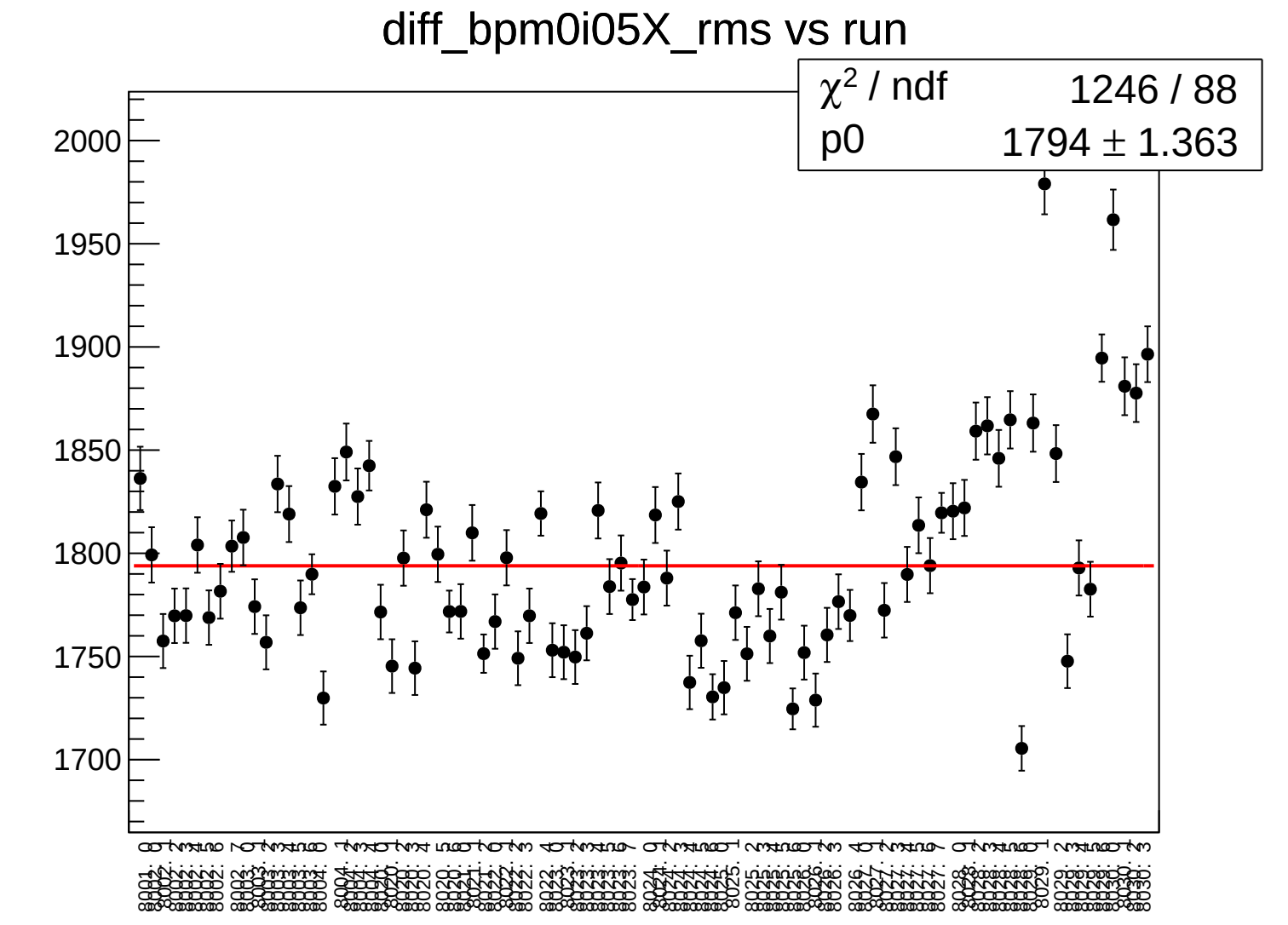

diff_bpm0i02aY_mean vs run
χ² / ndf 142.8 / 88
p0 −25.96 ± 1.895
pull
Entries 89
Mean −511.1
Std Dev 0

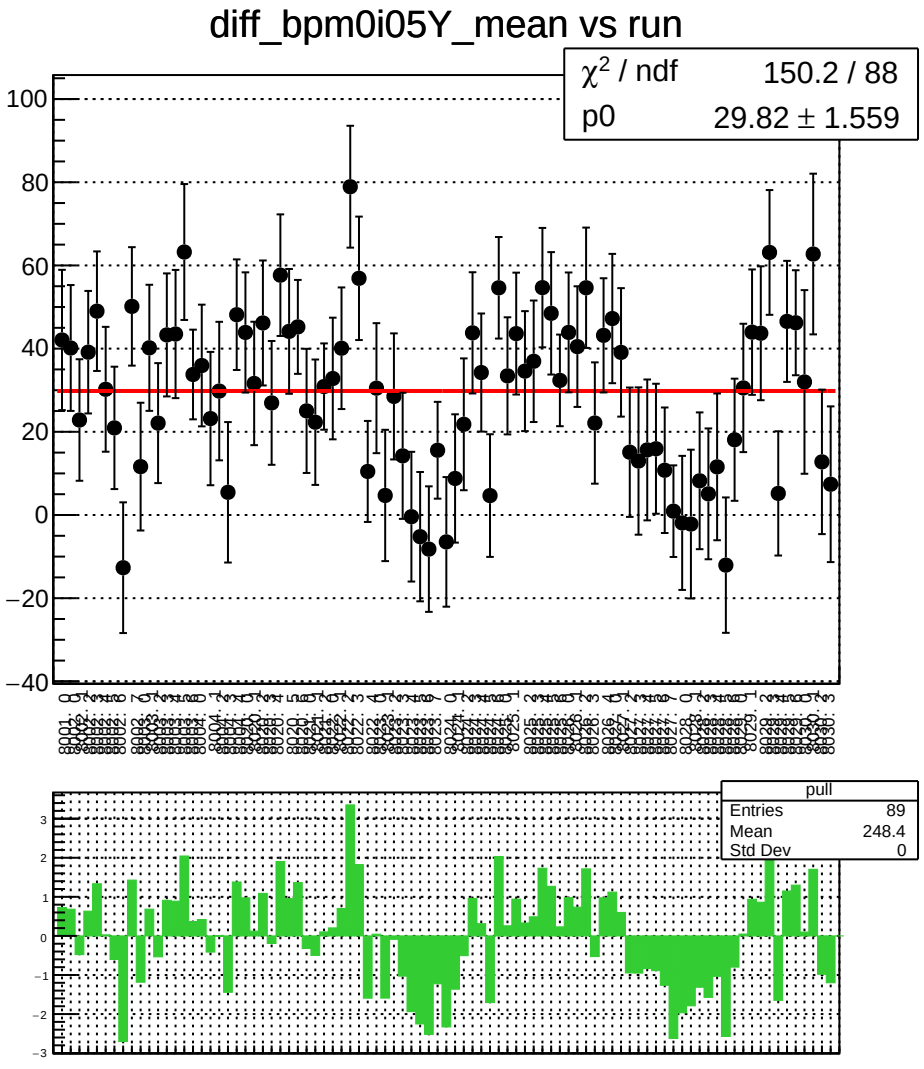

pull1D
Entries 89
Mean −0.01711
Std Dev 1.267

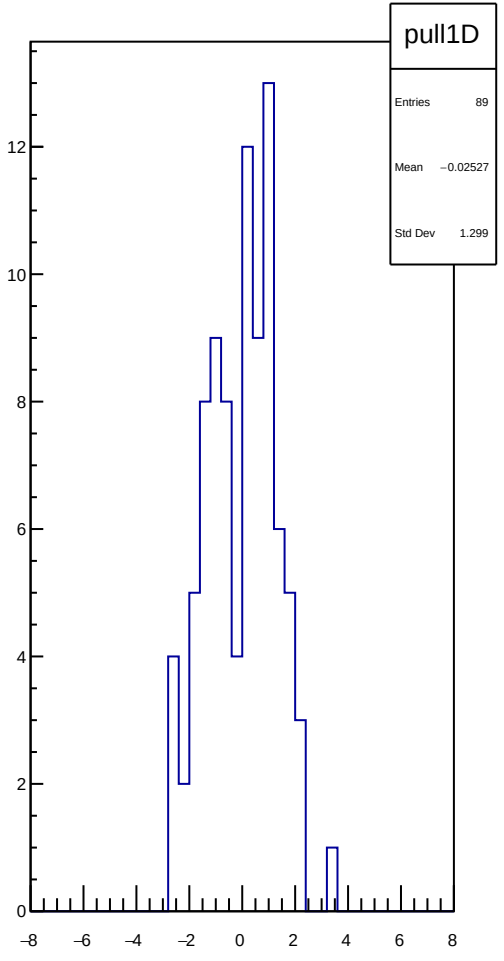

diff_bpm0i02aY_rms vs run
χ² / ndf 743.4 / 88
p0 1765 ± 1.34
1850
1800
1750
1700
1650
1600

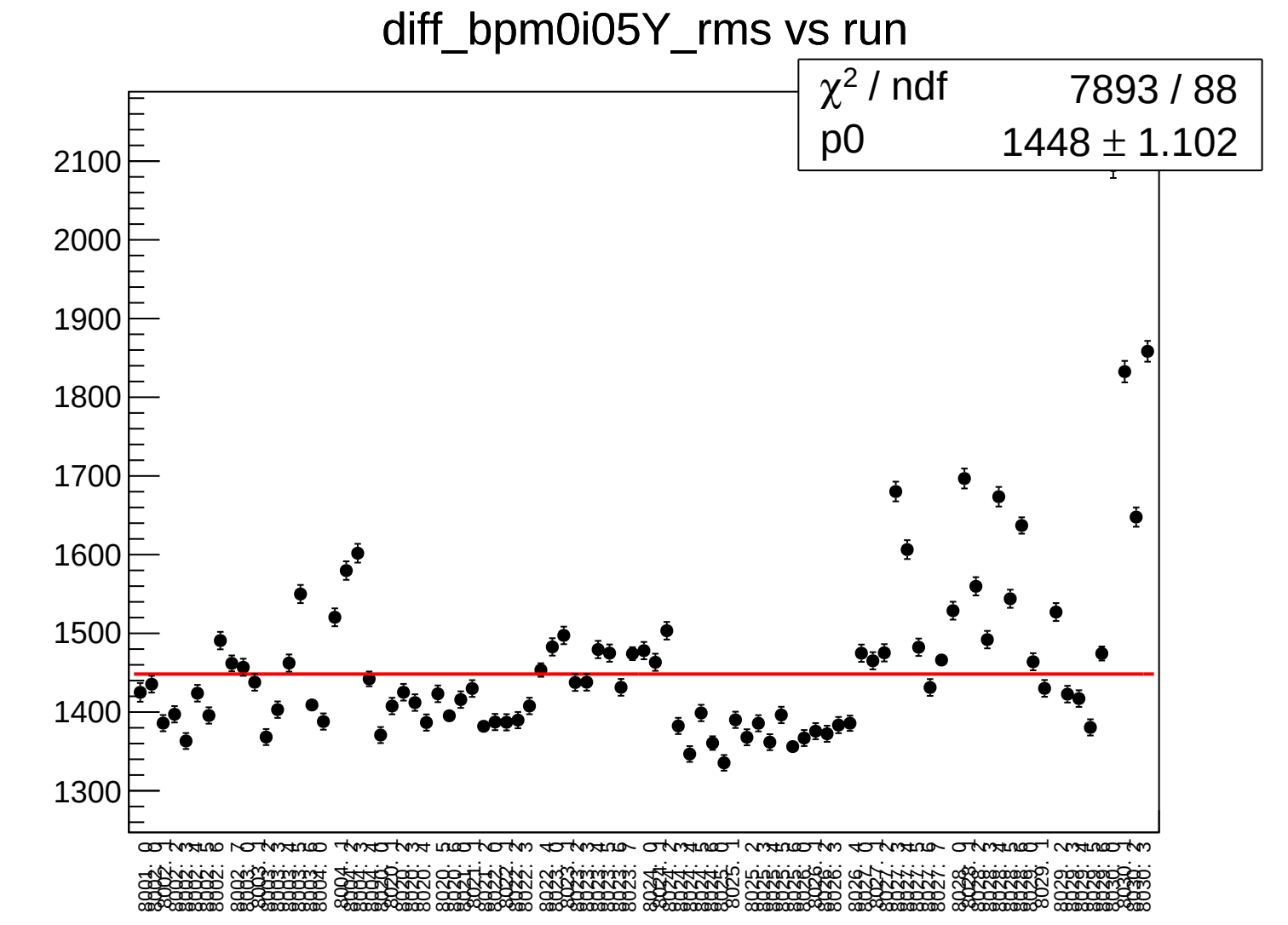

diff_bpm0i05X_mean vs run
χ² / ndf 337.4 / 88
p0 −40.63 ± 1.927
pull
Entries 89
Mean 1517
Std Dev 0

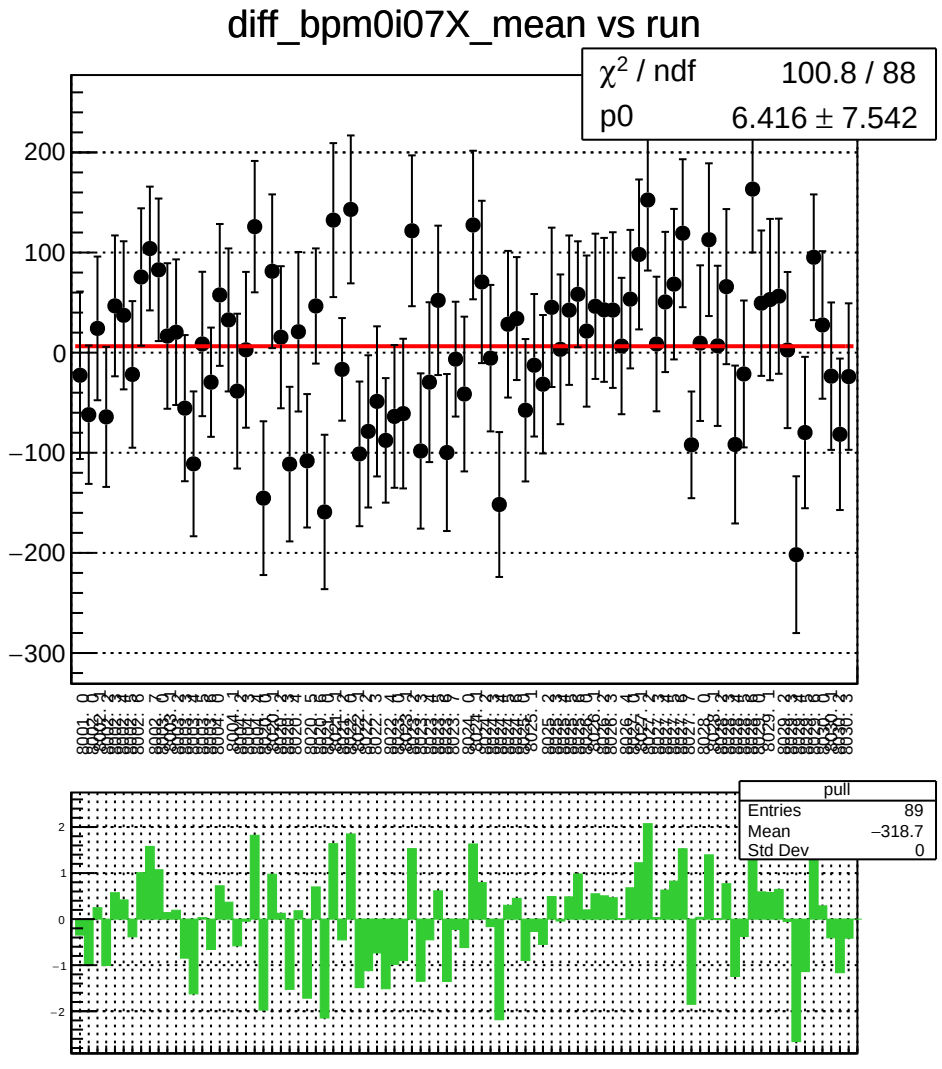

pull1D
Entries 89
Mean 0.01314
Std Dev 1.947

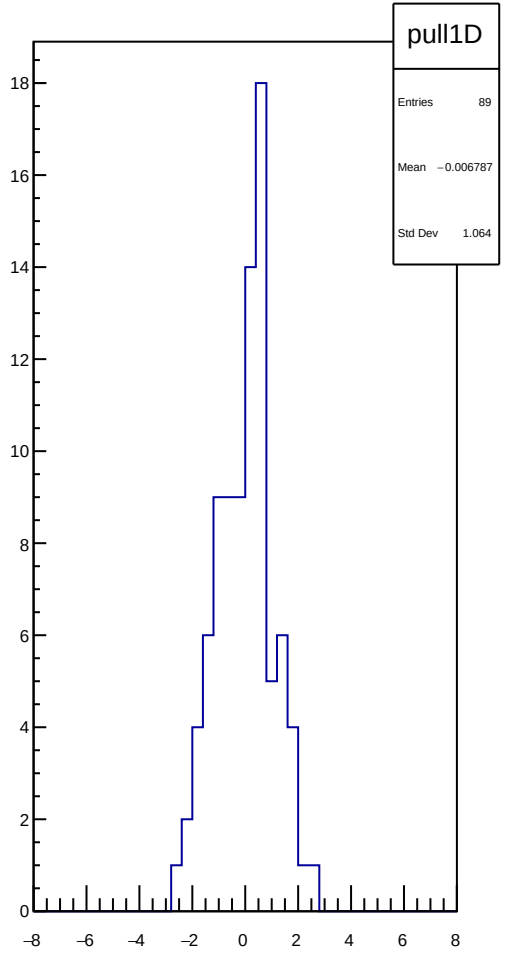

diff_bpm0i05X_rms vs run
χ² / ndf 1246 / 88
p0 1794 ± 1.363
2000
1950
1900
1850
1800
1750
1700

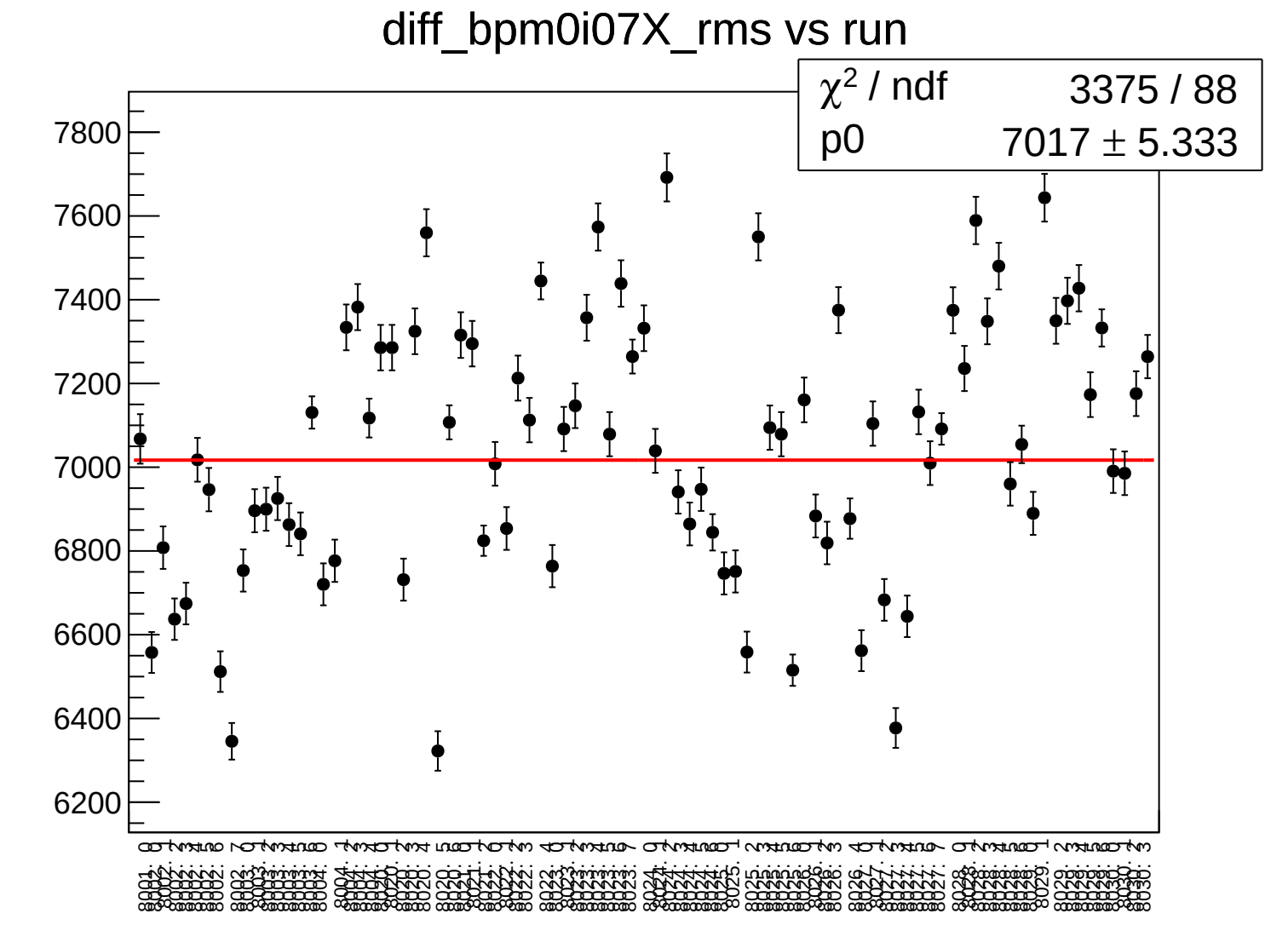

diff_bpm0i05Y_mean vs run
χ² / ndf 150.2 / 88
p0 29.82 ± 1.559
pull
Entries 89
Mean 248.4
Std Dev 0

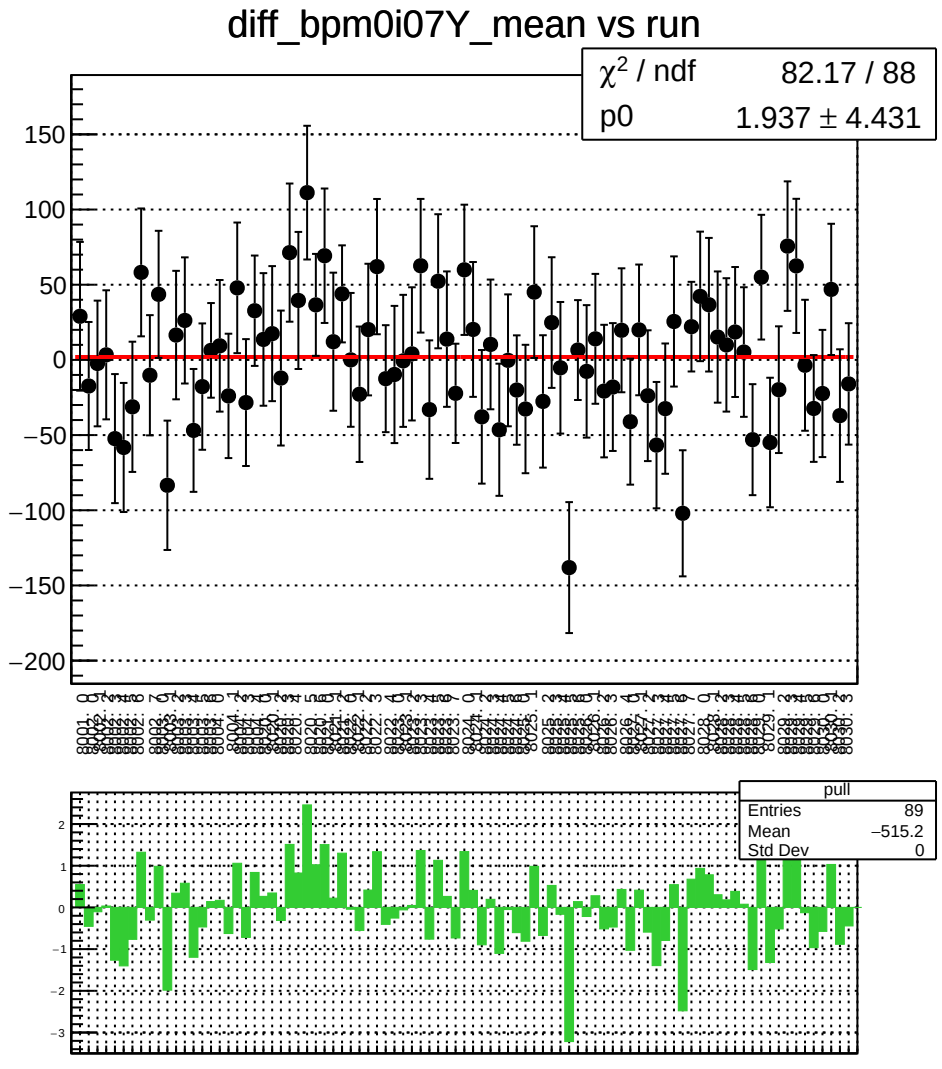

pull1D
Entries 89
Mean −0.02527
Std Dev 1.299

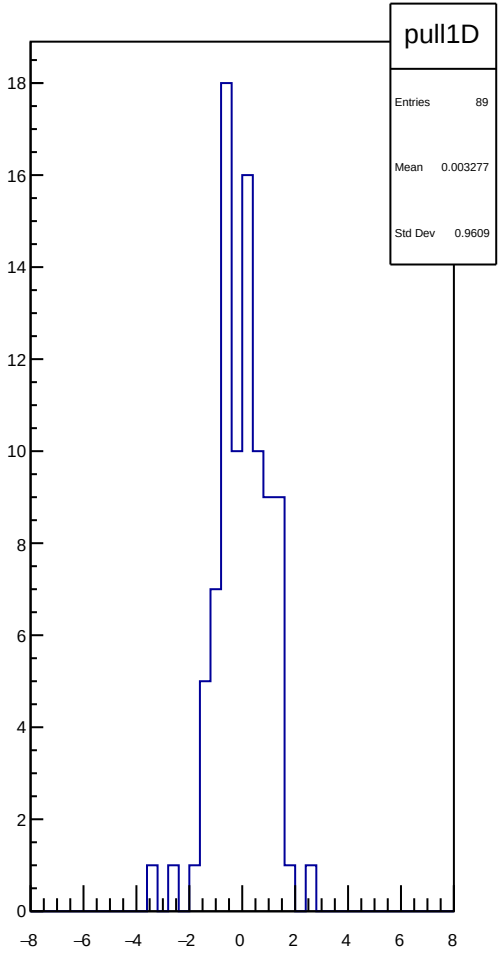

diff_bpm0i05Y_rms vs run
χ^2 / ndf 7893 / 88
p0 1448 ± 1.102
2100
2000
1900
1800
1700
1600
1500
1400
1300

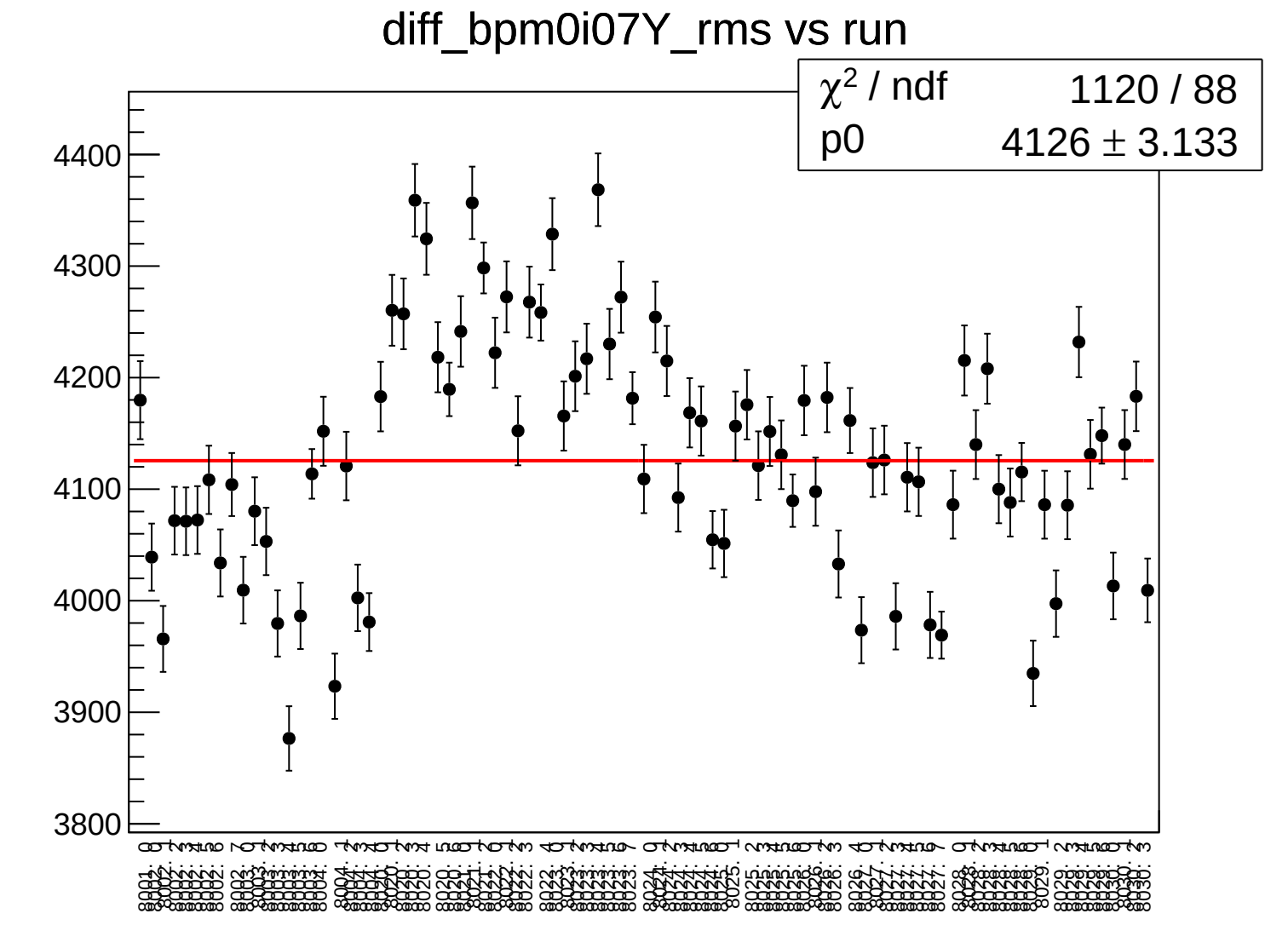

diff_bpm0i07X_mean vs run
χ^2 / ndf 100.8 / 88
p0 6.416 ± 7.542
200
100
0
−100
−200
−300
pull
Entries 89
Mean −318.7
Std Dev 0
2
1
0
−1
−2

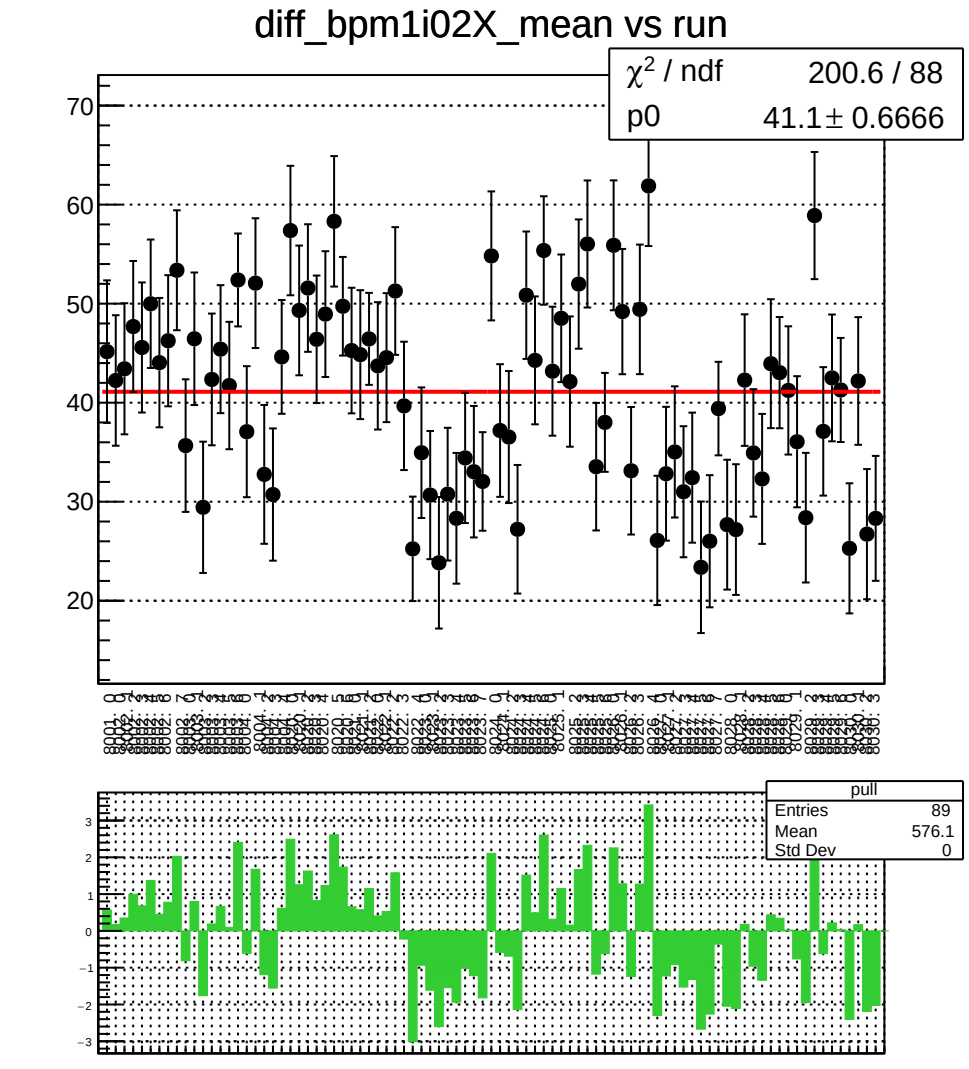

pull1D
Entries 89
Mean −0.006787
Std Dev 1.064
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

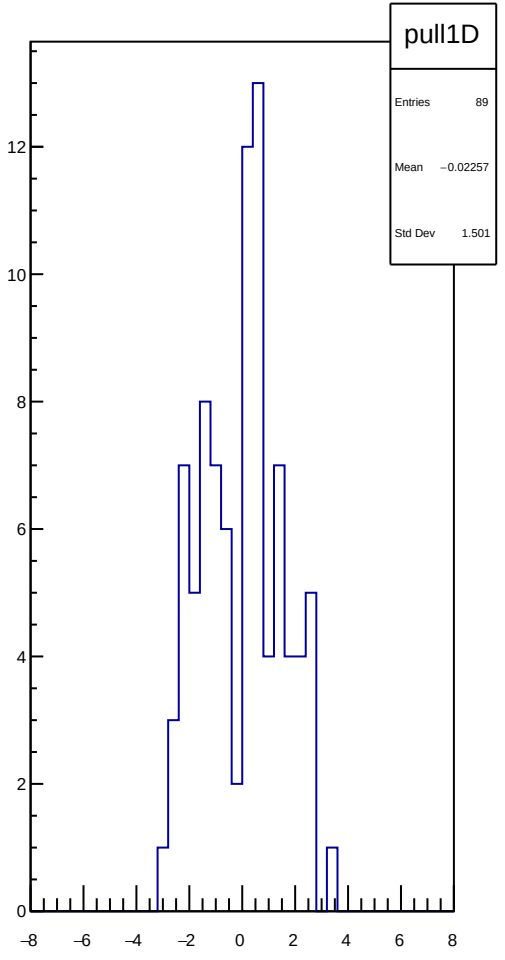

diff_bpm0i07X_rms vs run
χ² / ndf 3375 / 88
p0 7017 ± 5.333
7800
7600
7400
7200
7000
6800
6600
6400
6200

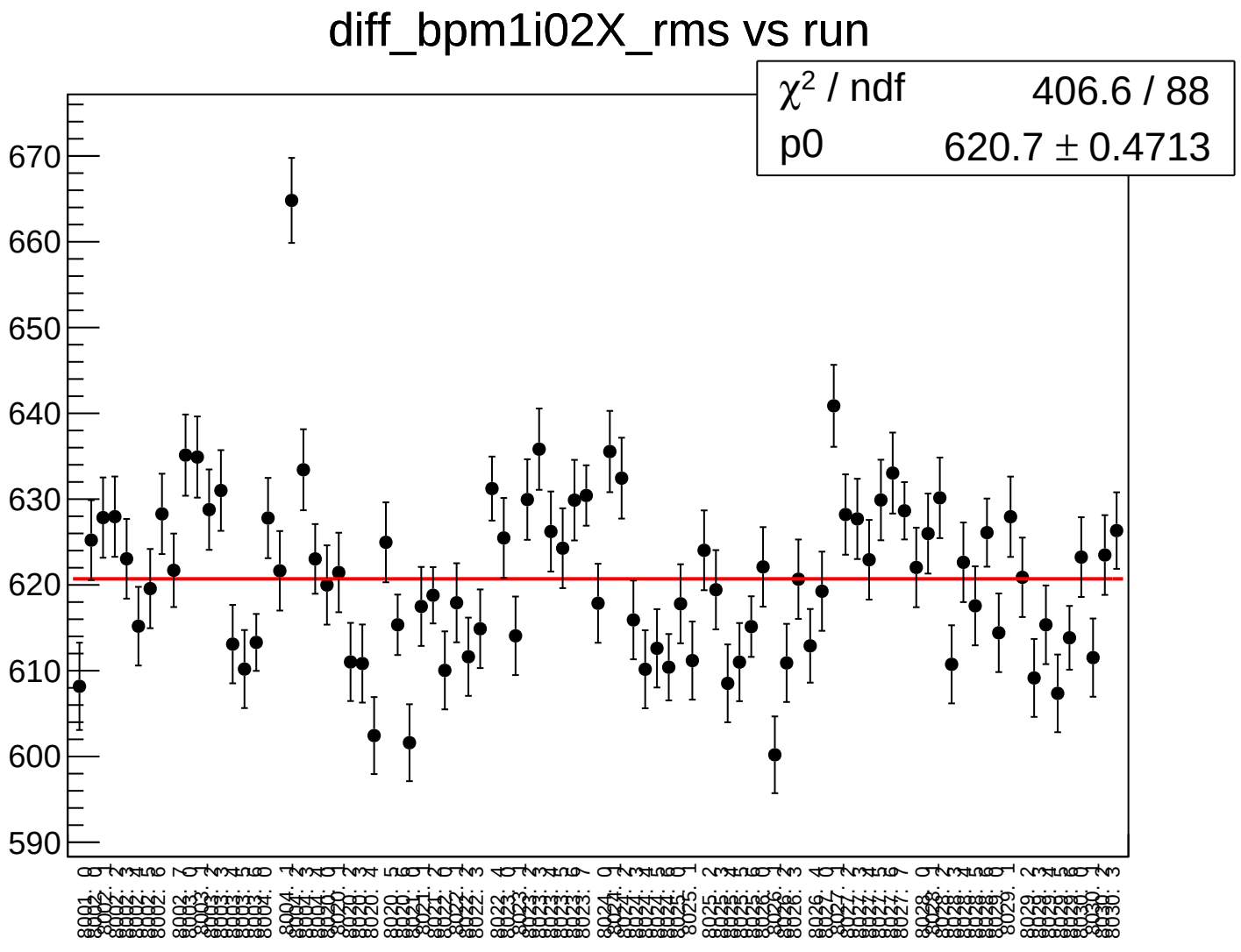

diff_bpm0i07Y_mean vs run
χ² / ndf 82.17 / 88
p0 1.937 ± 4.431
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean −515.2
Std Dev 0
2
1
0
−1
−2
−3

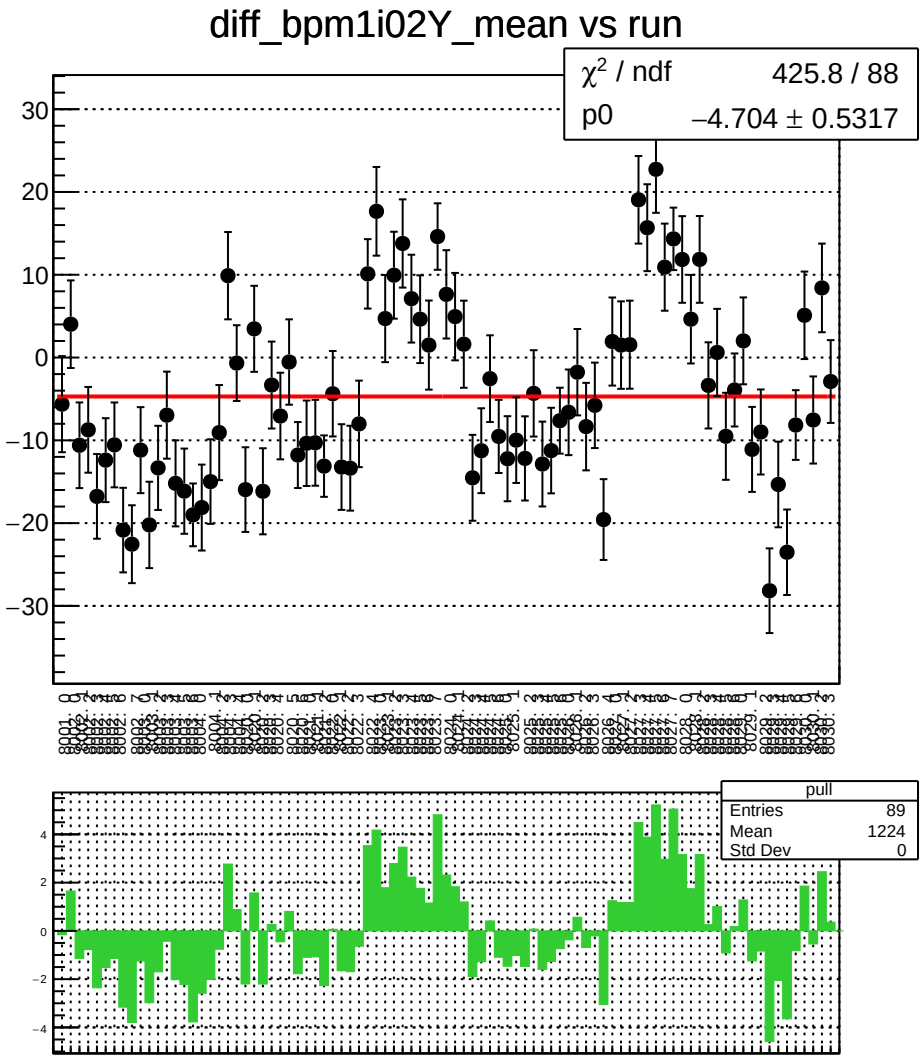

pull1D
Entries 89
Mean 0.003277
Std Dev 0.9609
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

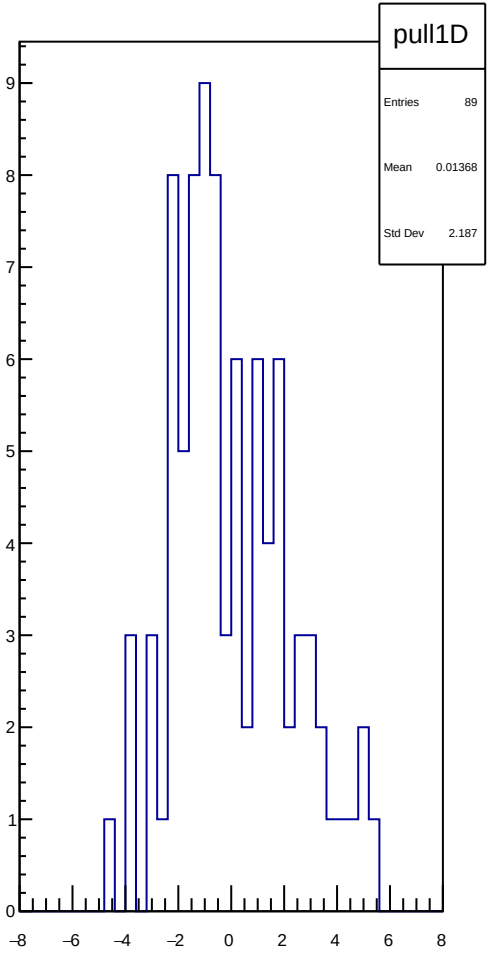

diff_bpm0i07Y_rms vs run
χ² / ndf 1120 / 88
p0 4126 ± 3.133
4400
4300
4200
4100
4000
3900
3800

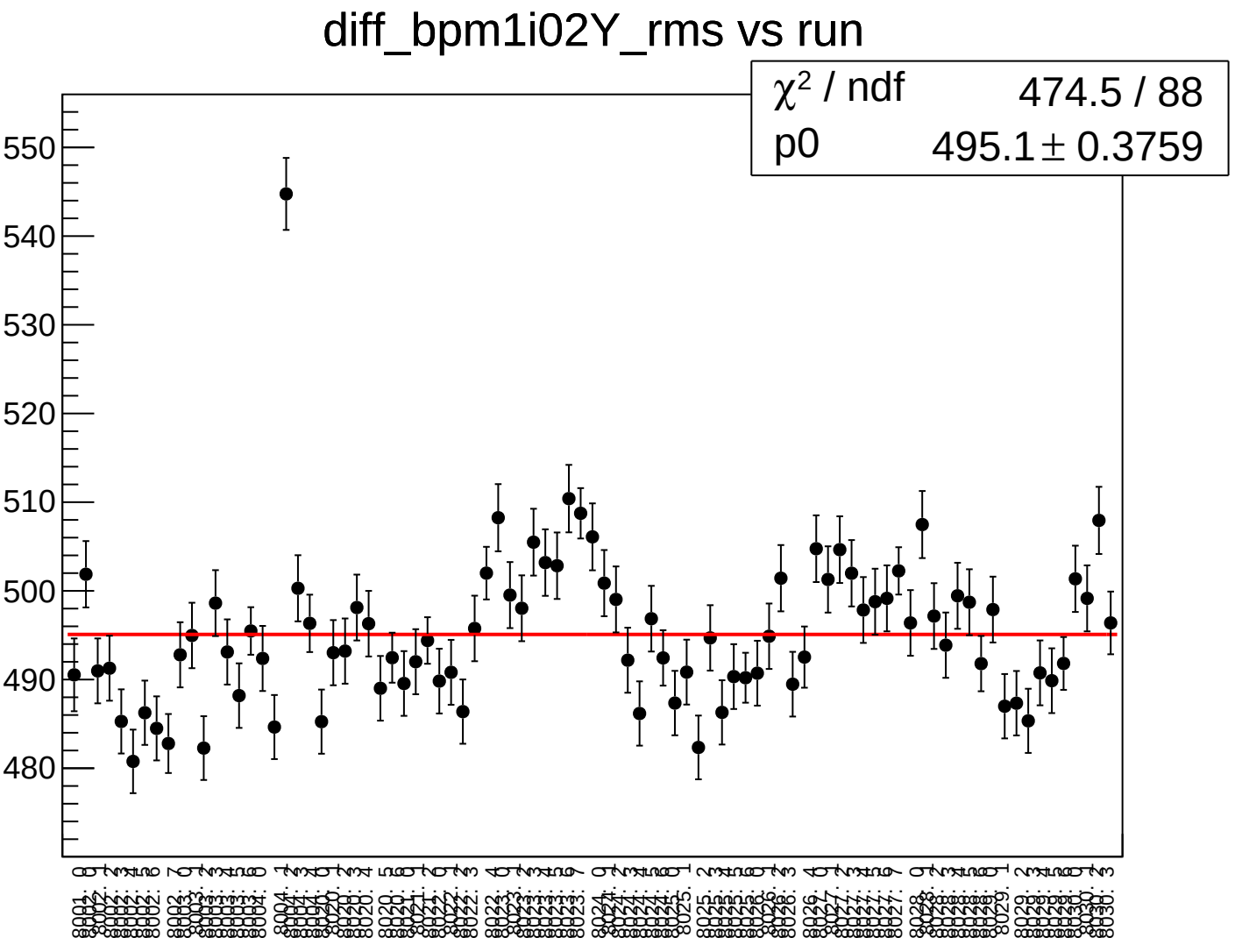

diff_bpm1i02X_mean vs run
χ² / ndf 200.6 / 88
p0 41.1 ± 0.6666
pull
Entries 89
Mean 576.1
Std Dev 0

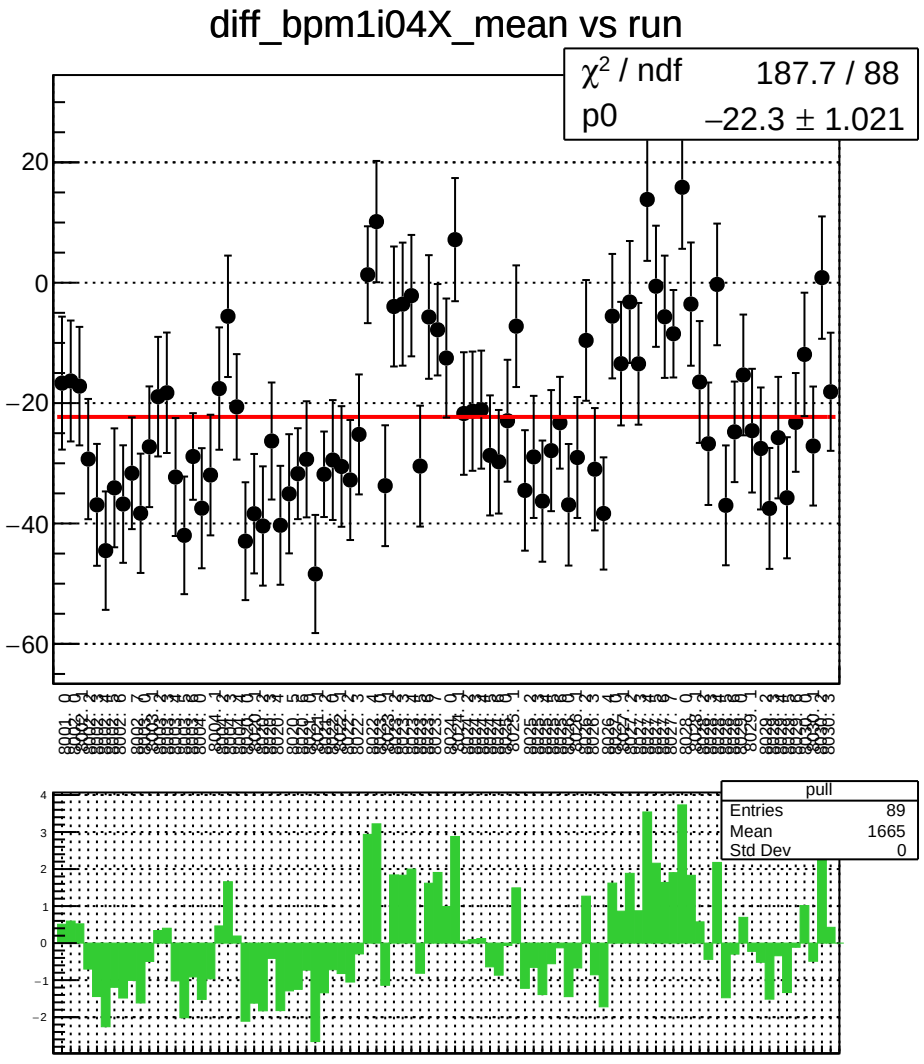

pull1D
Entries 89
Mean −0.02257
Std Dev 1.501

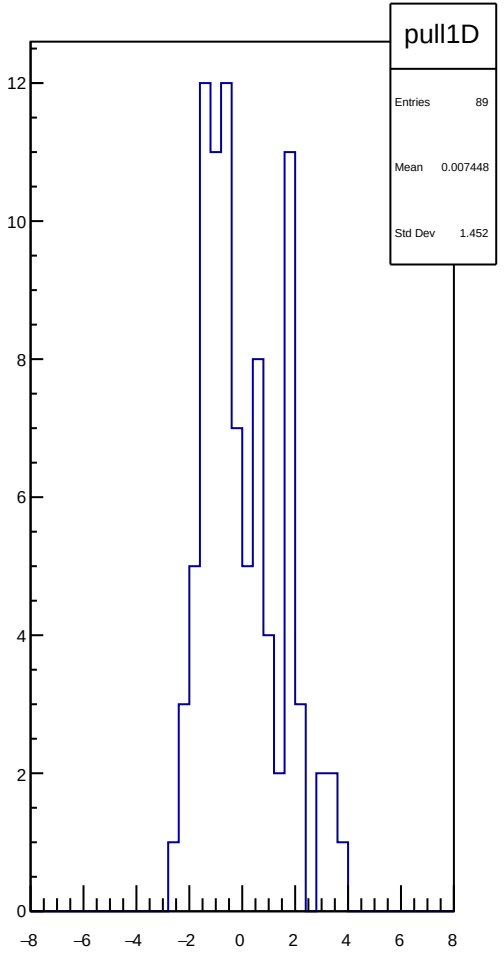

diff_bpm1i02X_rms vs run
χ² / ndf 406.6 / 88
p0 620.7 ± 0.4713
670
660
650
640
630
620
610
600
590

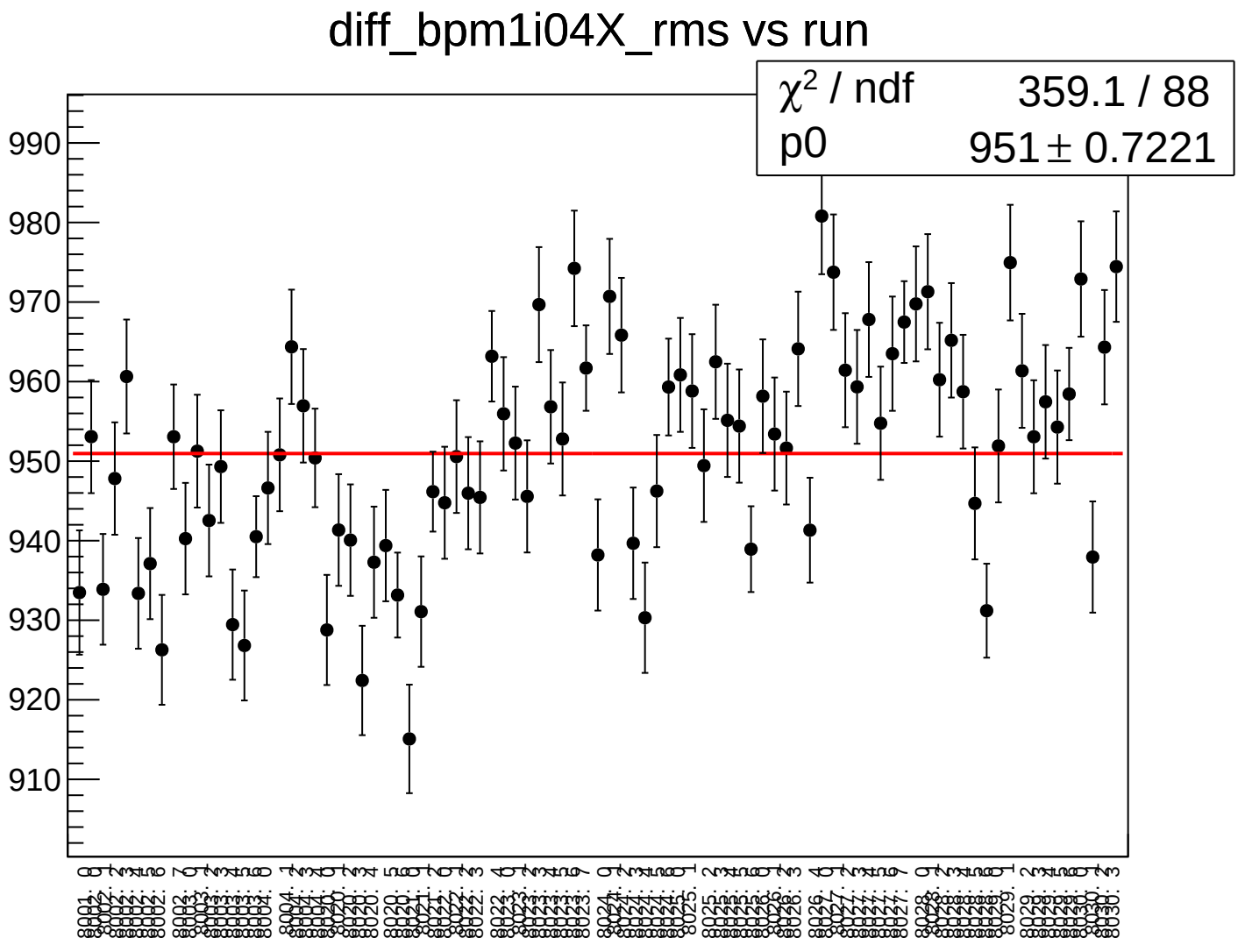

diff_bpm1i02Y_mean vs run
χ² / ndf 425.8 / 88
p0 −4.704 ± 0.5317
pull
Entries 89
Mean 1224
Std Dev 0

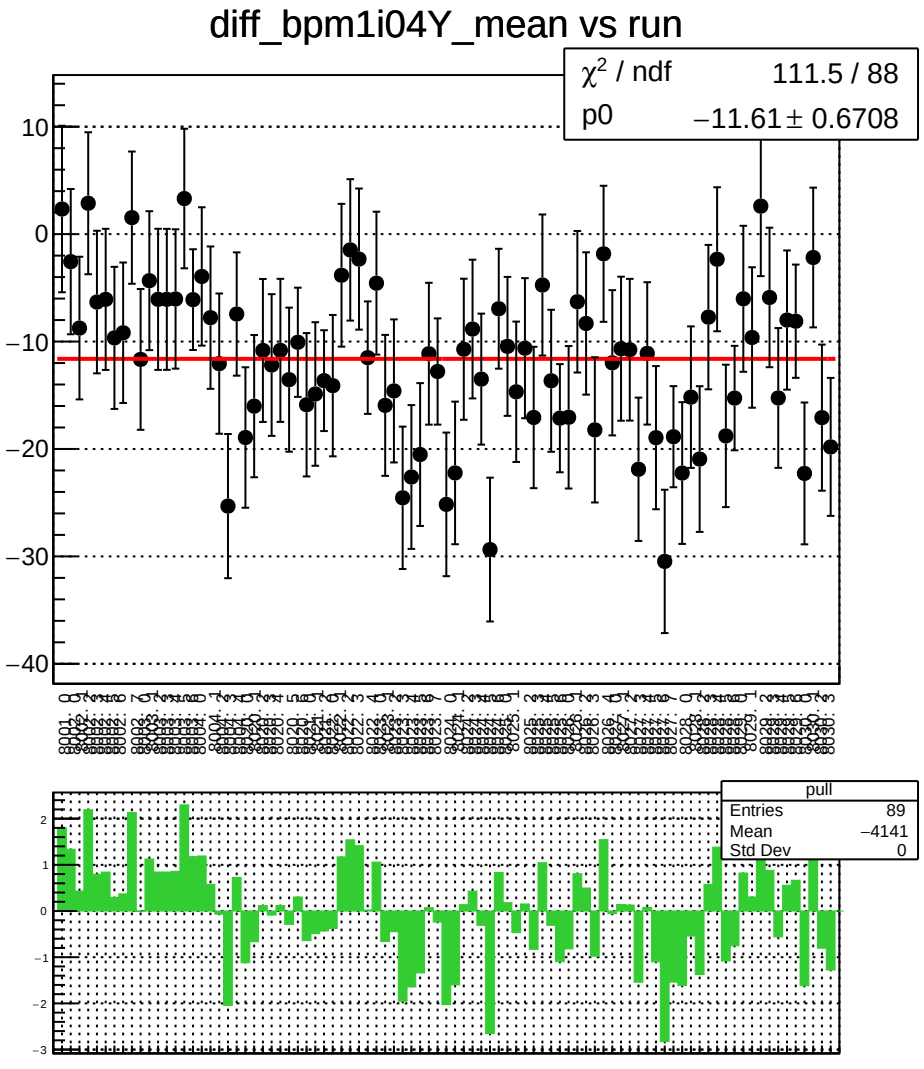

pull1D
Entries 89
Mean 0.01368
Std Dev 2.187

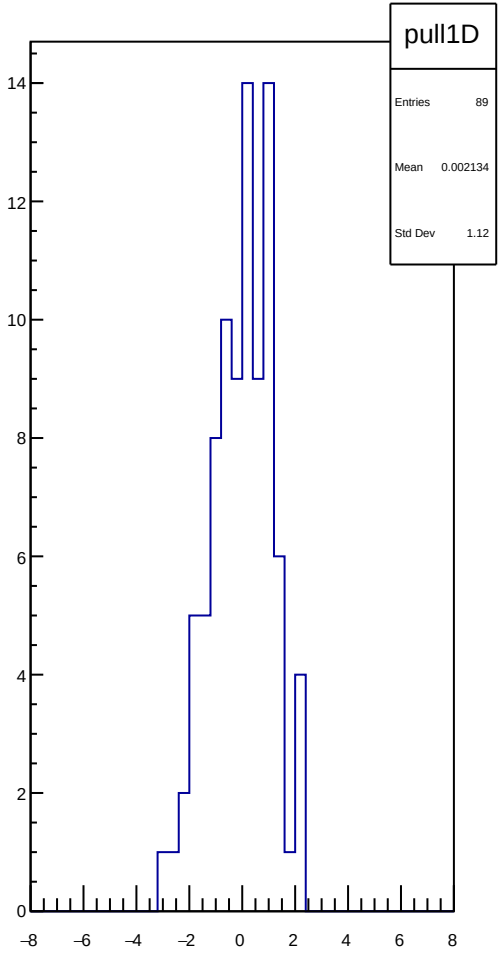

diff_bpm1i02Y_rms vs run
χ² / ndf 474.5 / 88
p0 495.1 ± 0.3759
550
540
530
520
510
500
490
480

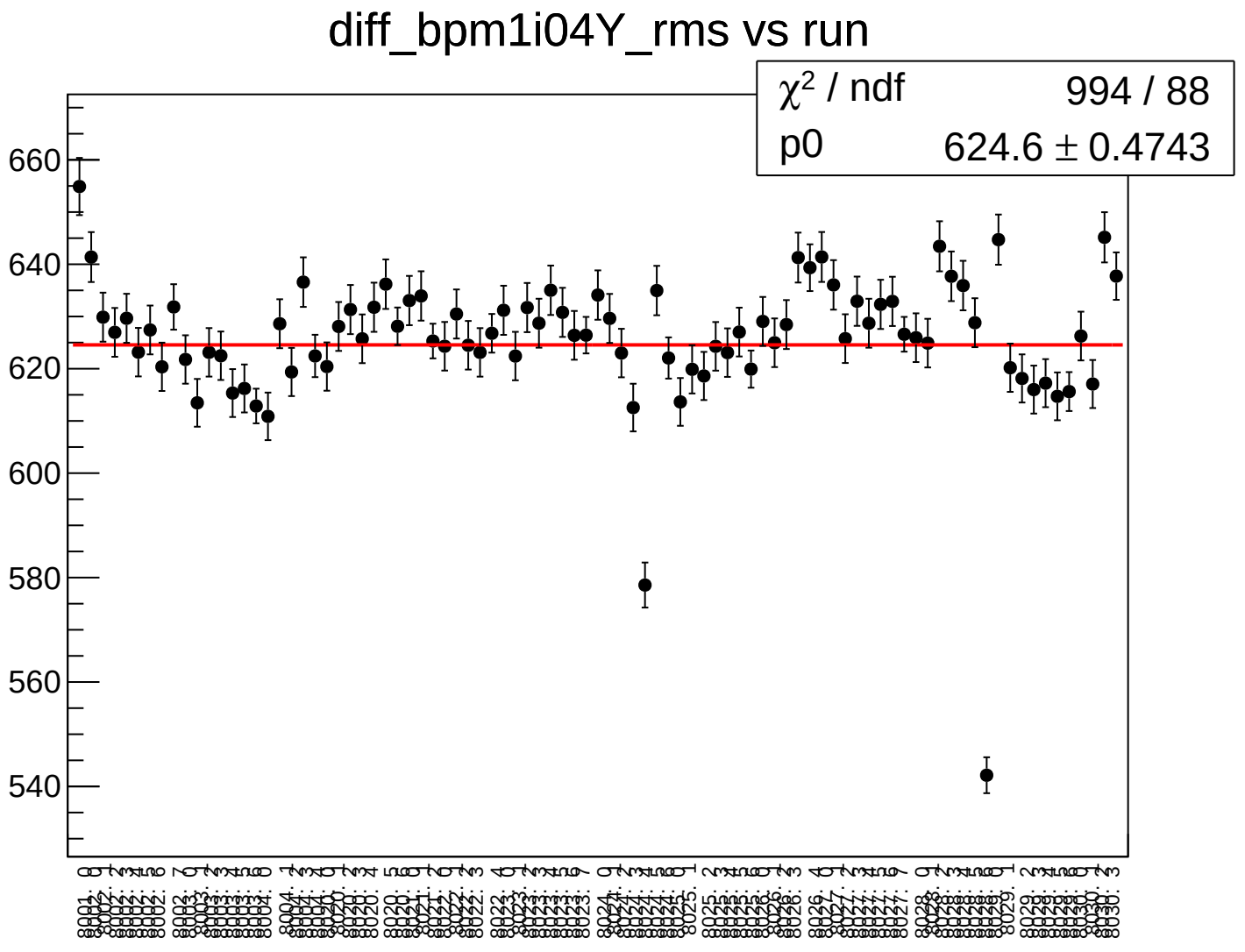

diff_bpm1i04X_mean vs run
χ² / ndf 187.7 / 88
p0 −22.3 ± 1.021
pull
Entries 89
Mean 1665
Std Dev 0

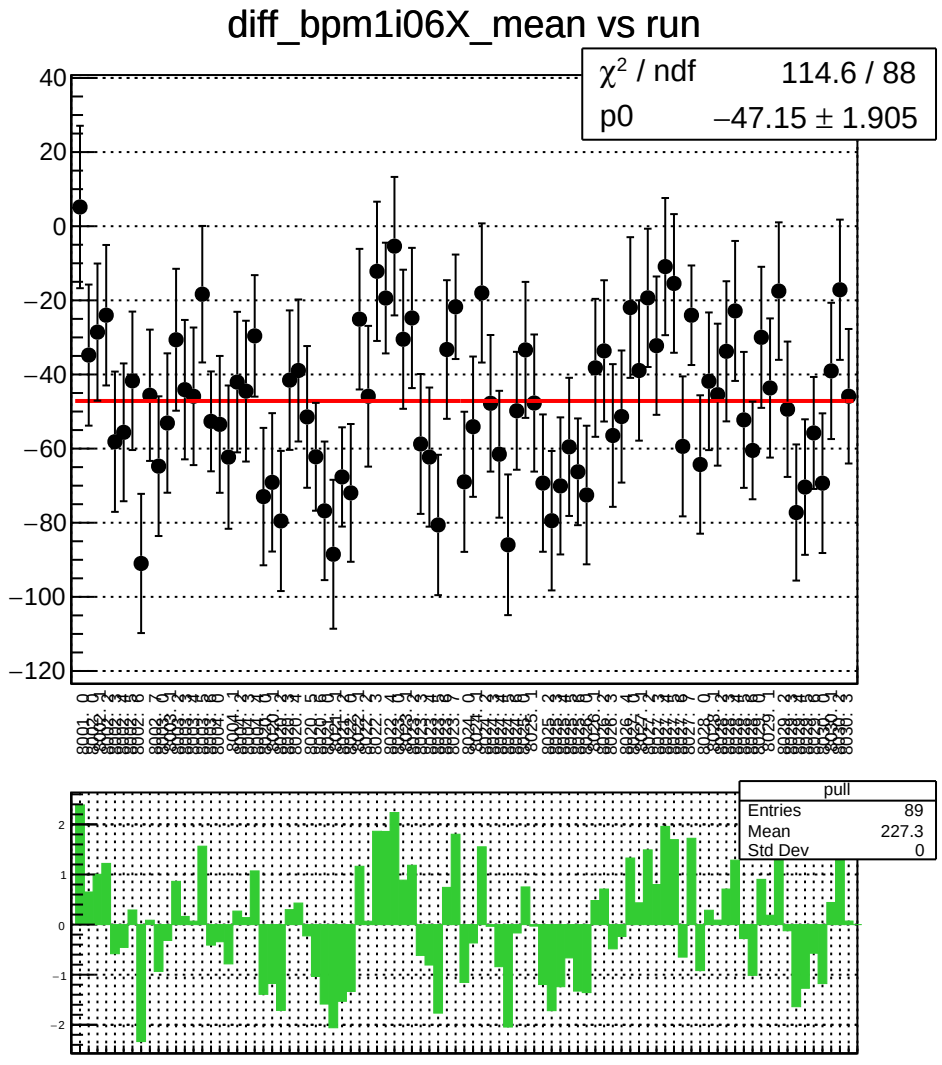

pull1D
Entries 89
Mean 0.007448
Std Dev 1.452

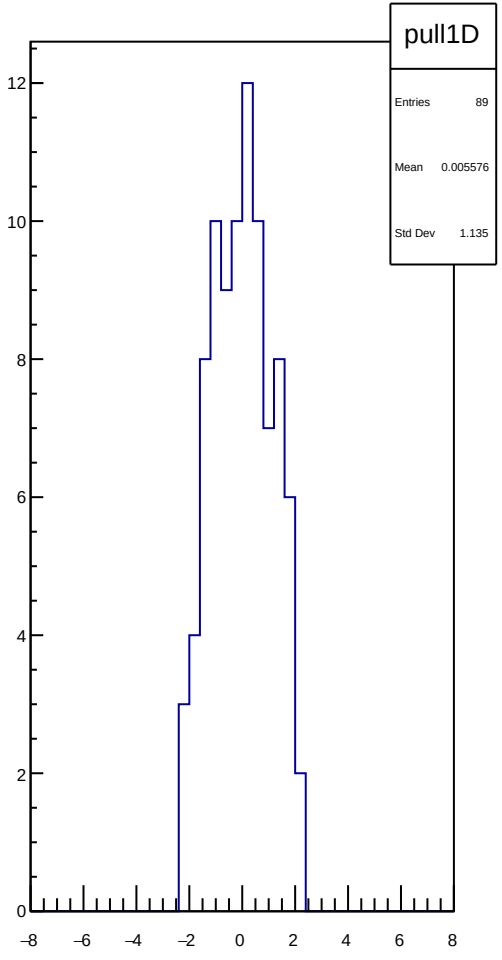

diff_bpm1i04X_rms vs run
χ^2 / ndf 359.1 / 88
p0 951 ± 0.7221
990
980
970
960
950
940
930
920
910

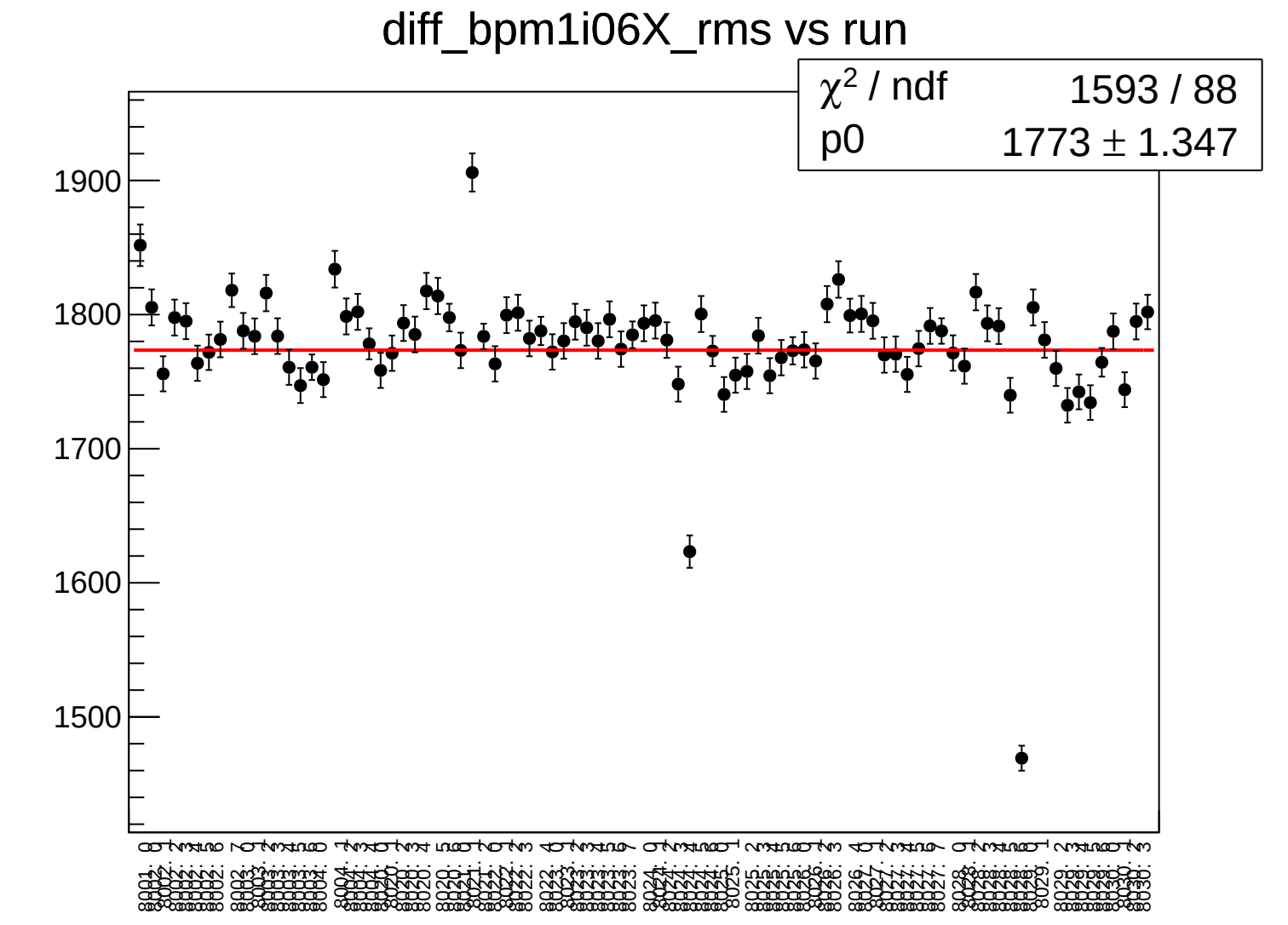

diff_bpm1i04Y_mean vs run
χ^2 / ndf 111.5 / 88
p0 −11.61 ± 0.6708
pull
Entries 89
Mean −4141
Std Dev 0

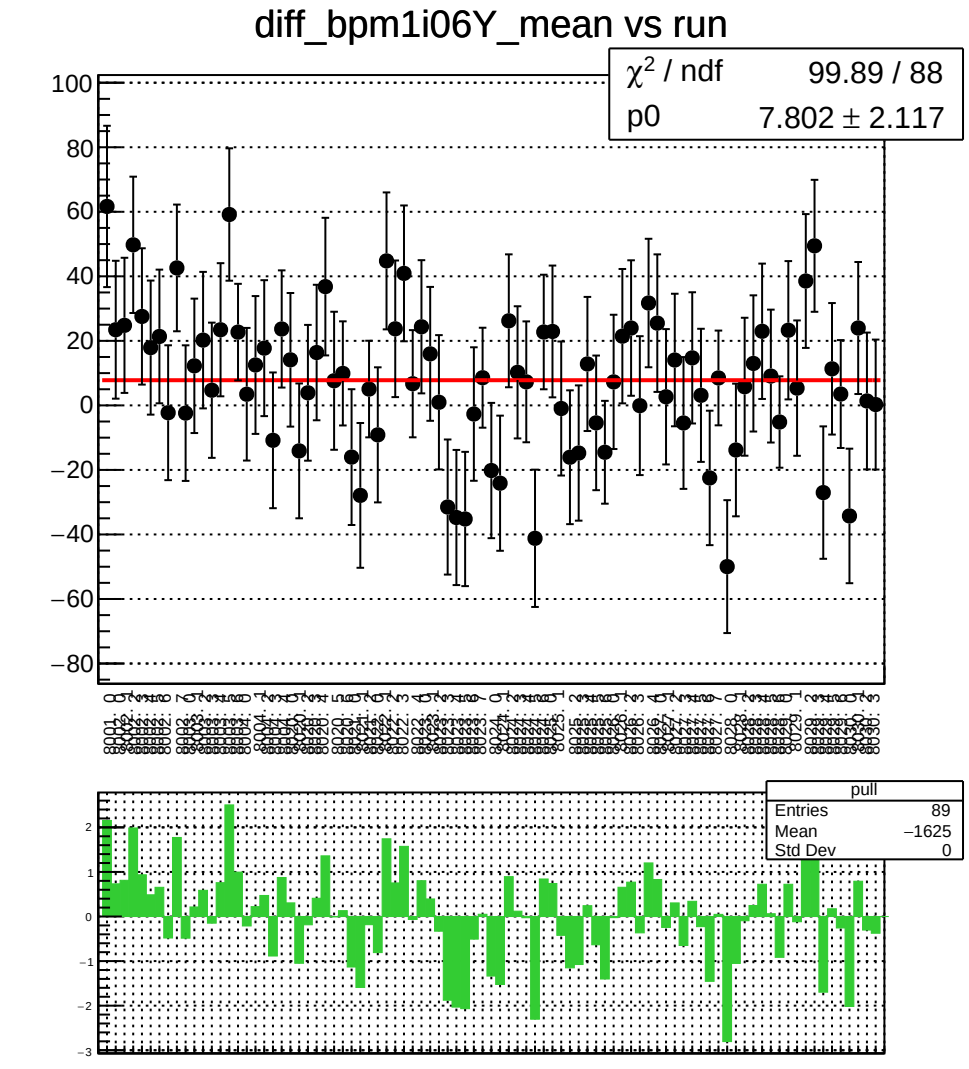

pull1D
Entries 89
Mean 0.002134
Std Dev 1.12

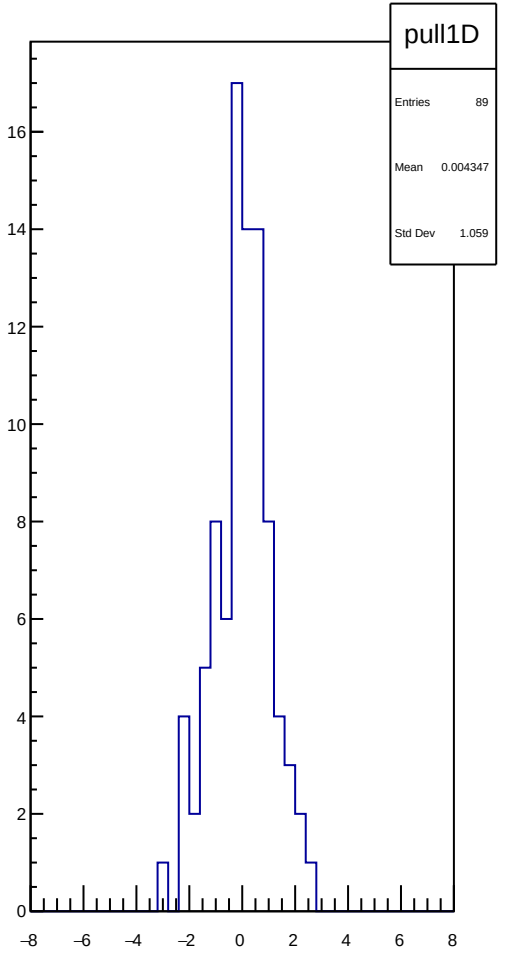

diff_bpm1i04Y_rms vs run
χ² / ndf 994 / 88
p0 624.6 ± 0.4743
660
640
620
600
580
560
540

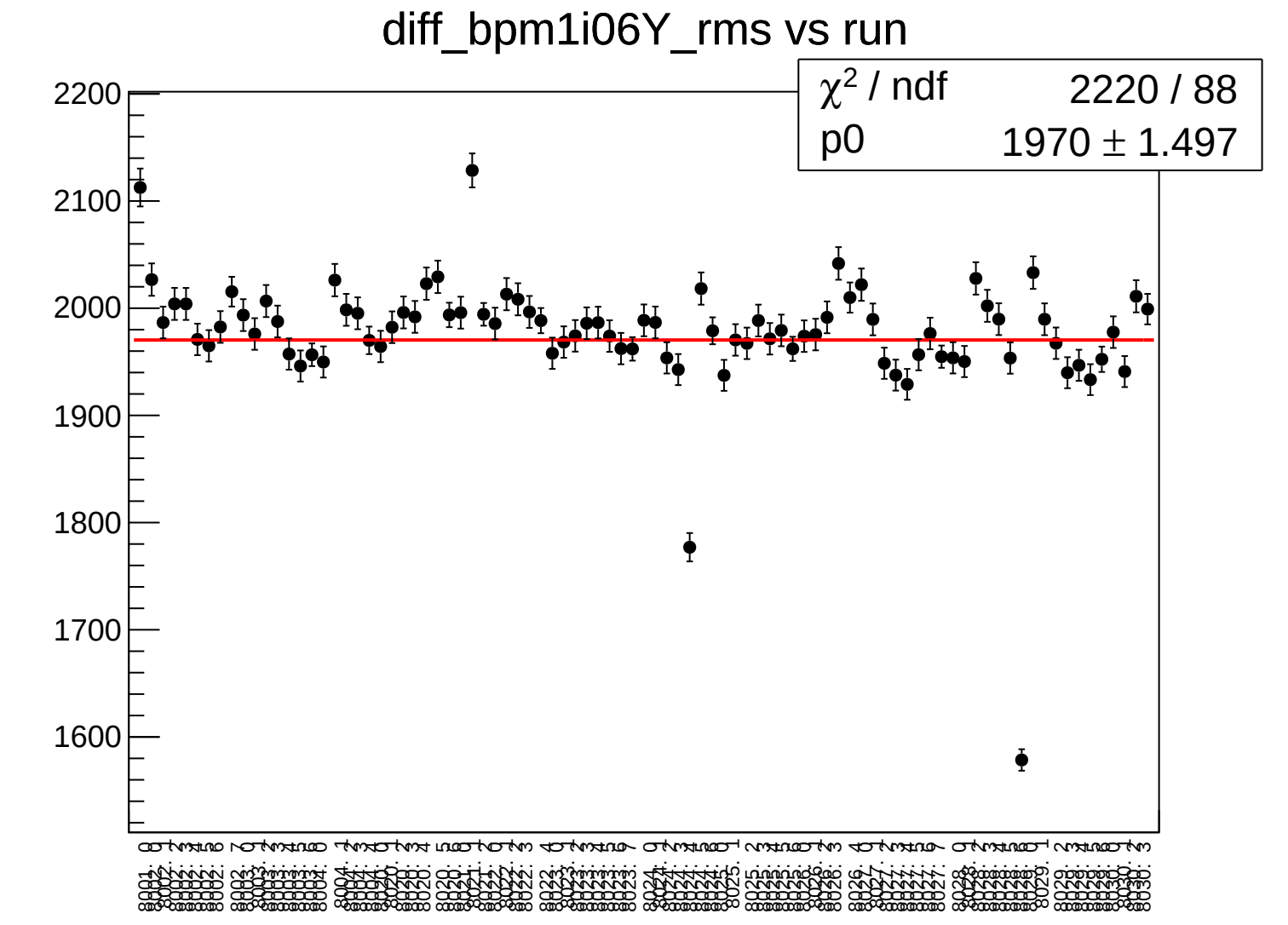

diff_bpm1i06X_mean vs run
χ² / ndf 114.6 / 88
p0 −47.15 ± 1.905
pull
Entries 89
Mean 227.3
Std Dev 0

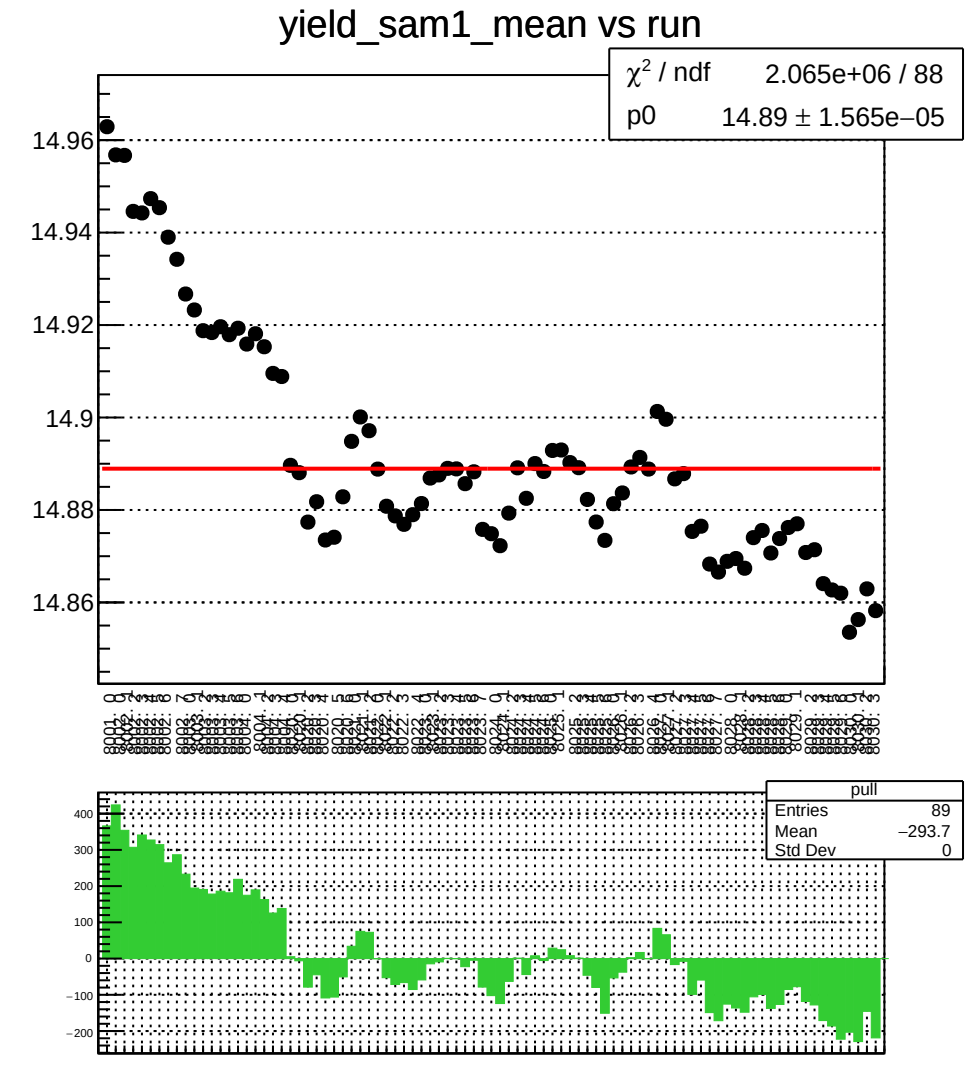

pull1D
Entries 89
Mean 0.005576
Std Dev 1.135

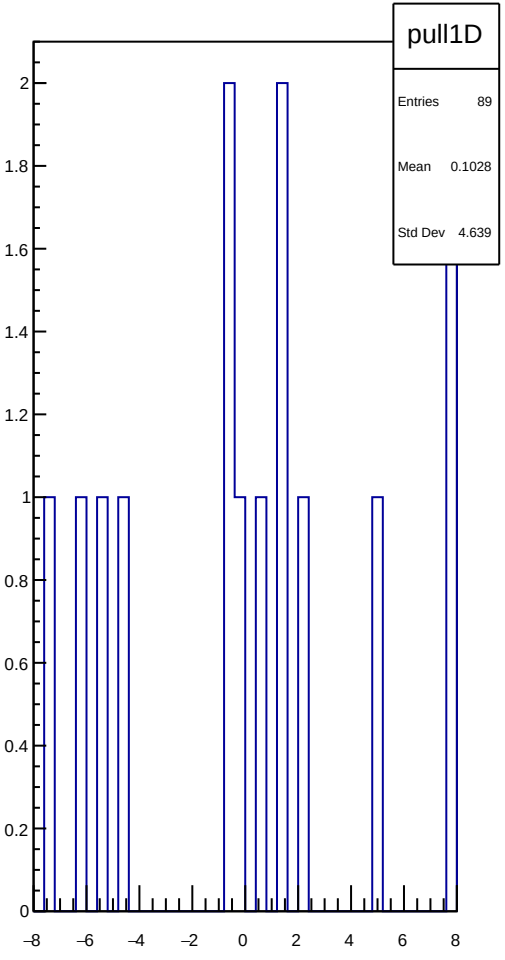

diff_bpm1i06X_rms vs run
χ² / ndf 1593 / 88
p0 1773 ± 1.347
1900
1800
1700
1600
1500

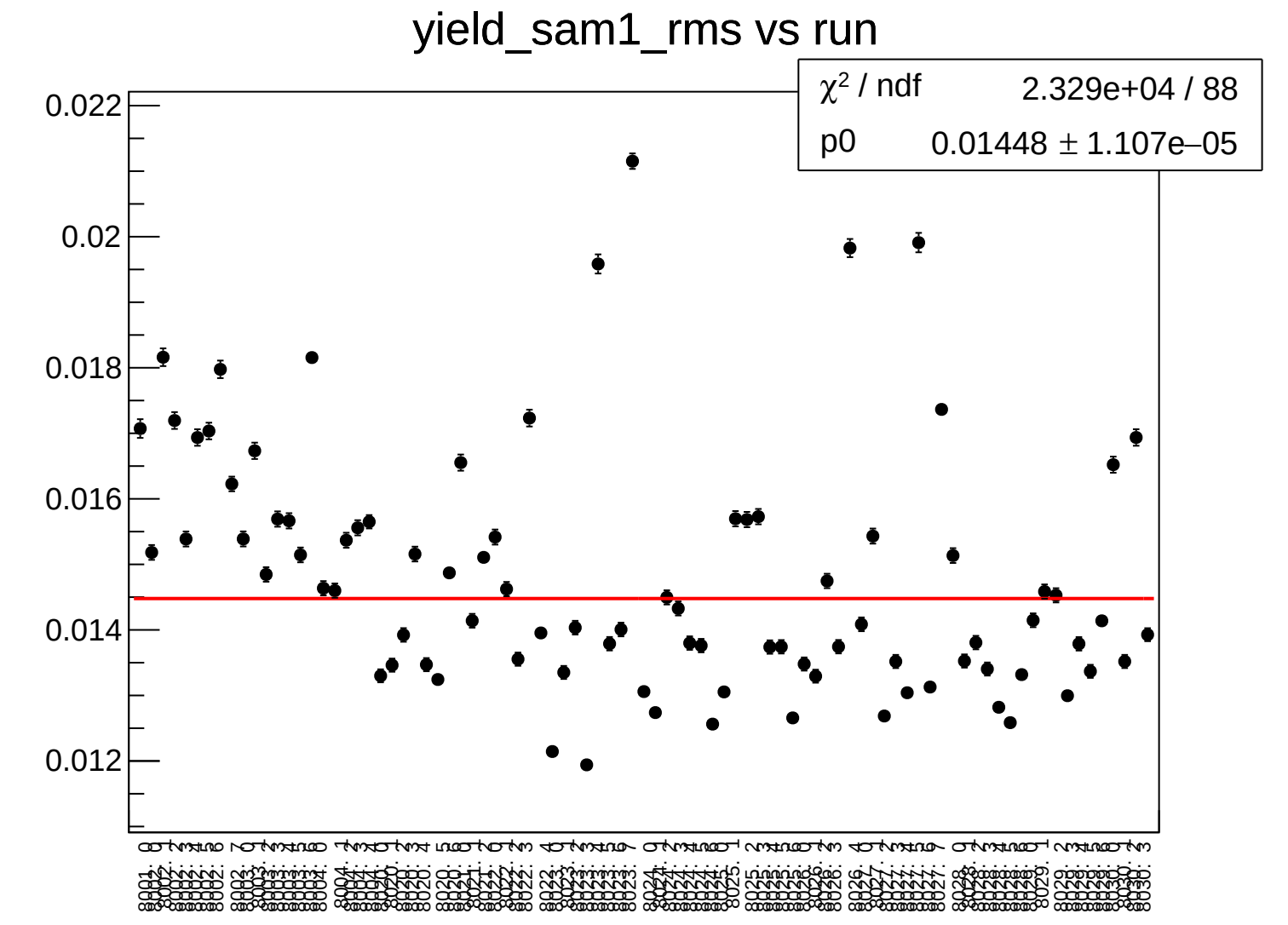

diff_bpm1i06Y_mean vs run
χ² / ndf 99.89 / 88
p0 7.802 ± 2.117
pull
Entries 89
Mean −1625
Std Dev 0

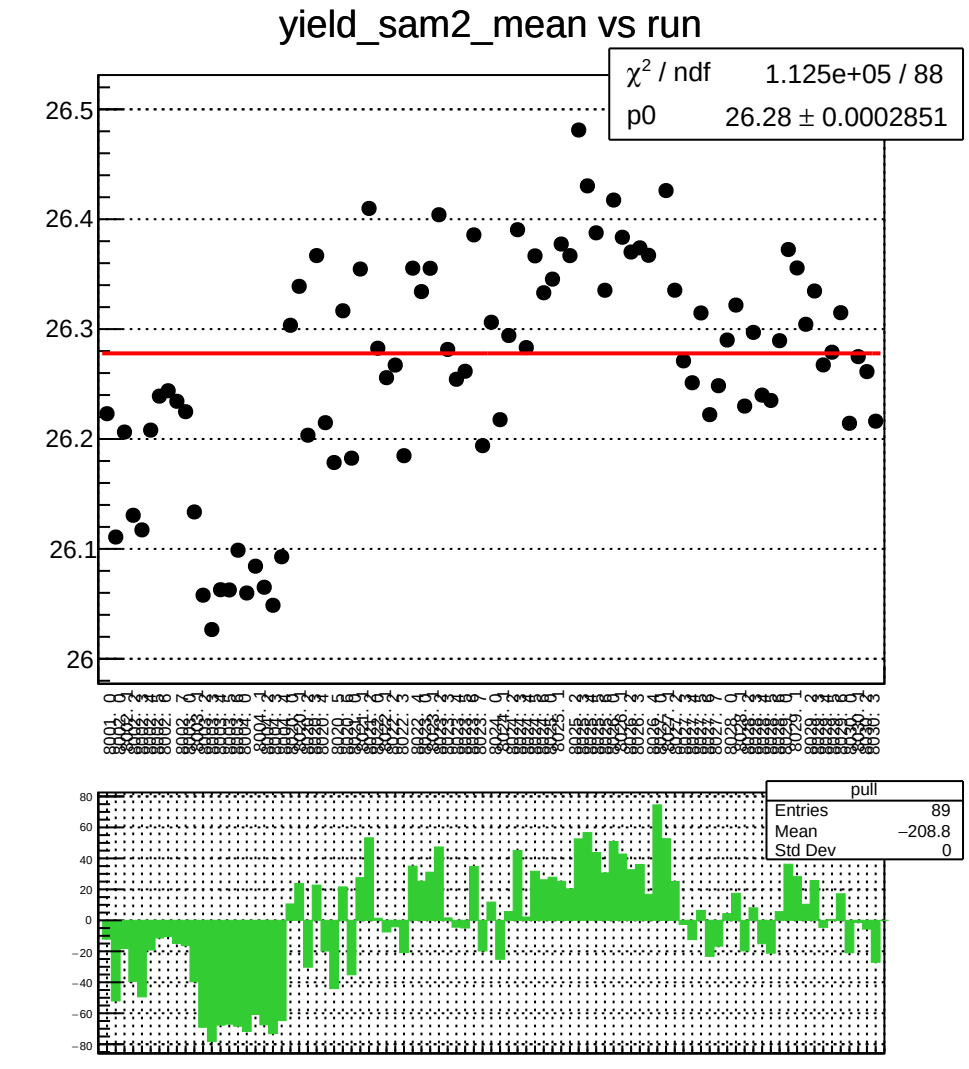

pull1D
Entries 89
Mean 0.004347
Std Dev 1.059

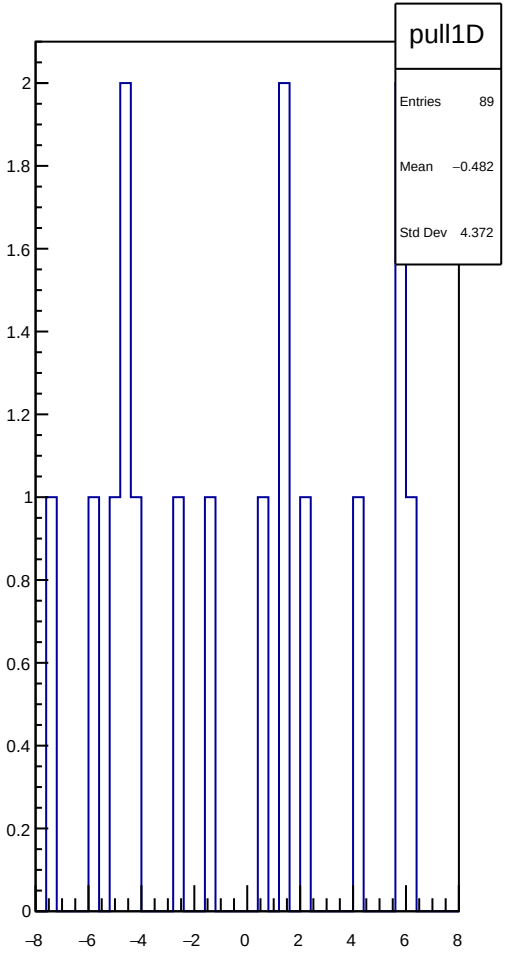

diff_bpm1i06Y_rms vs run
χ² / ndf 2220 / 88
p0 1970 ± 1.497
2200
2100
2000
1900
1800
1700
1600

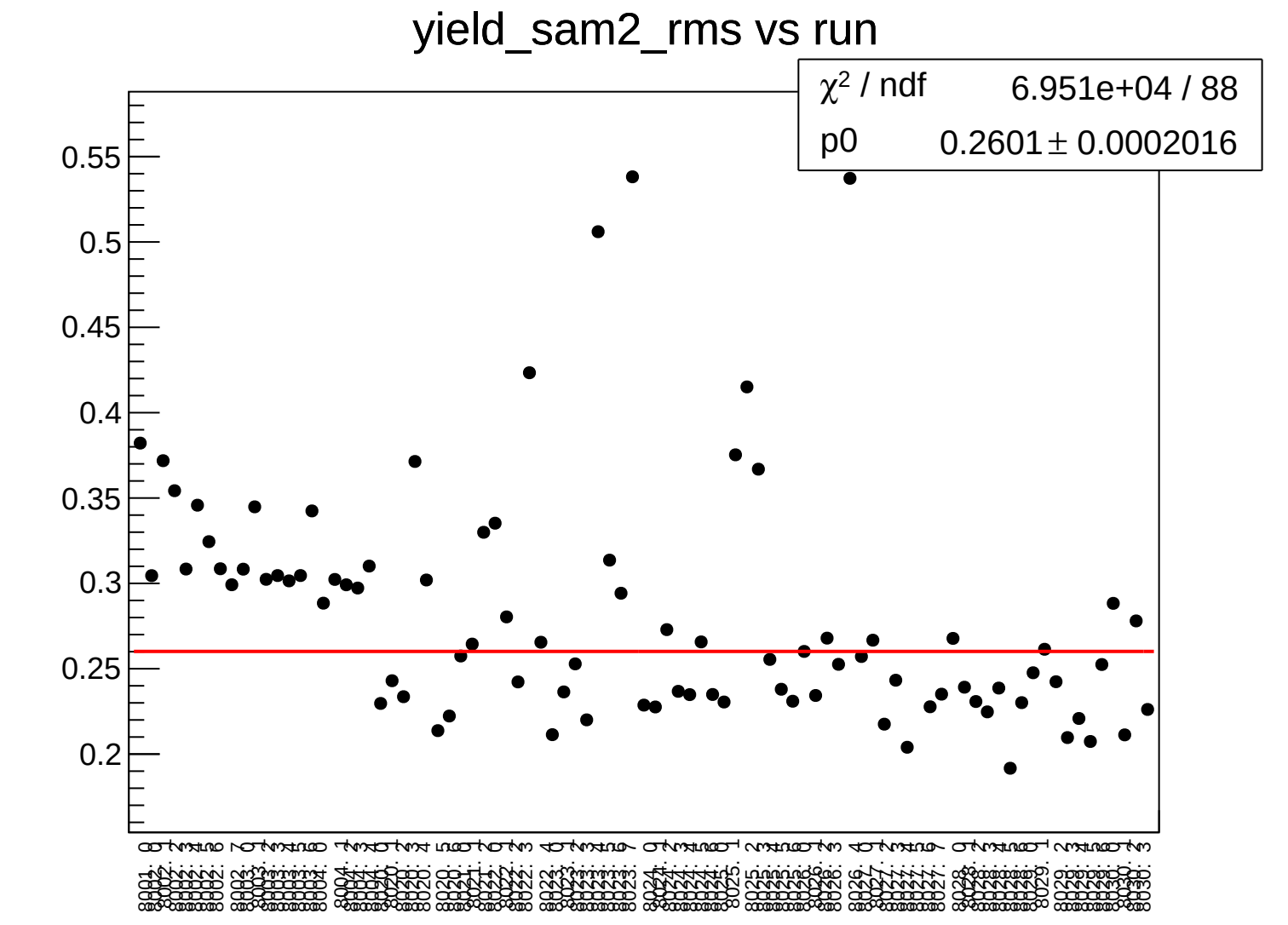

yield_sam1_mean vs run
χ² / ndf 2.065e+06 / 88
p0 14.89 ± 1.565e−05
14.96
14.94
14.92
14.9
14.88
14.86
pull
Entries 89
Mean −293.7
Std Dev 0
400
300
200
100
0
−100
−200

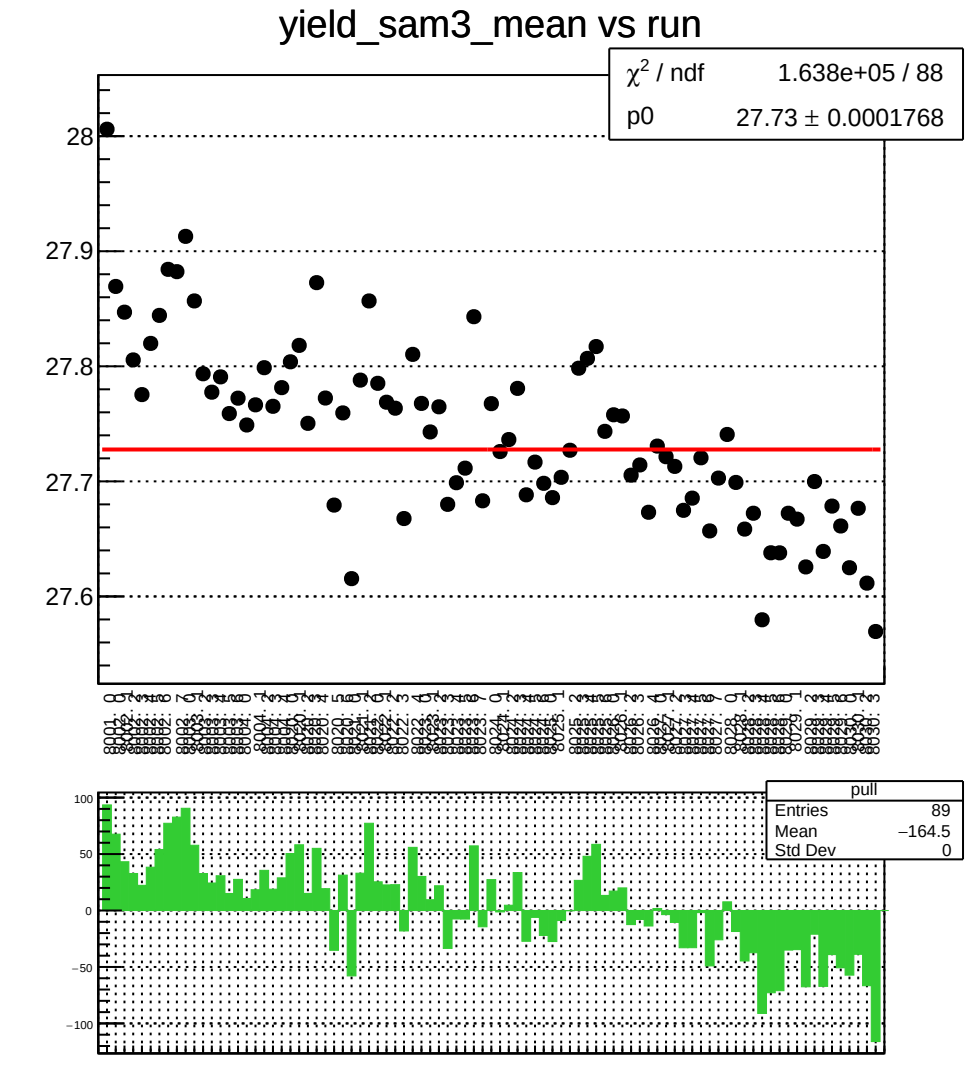

pull1D
Entries 89
Mean 0.1028
Std Dev 4.639
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

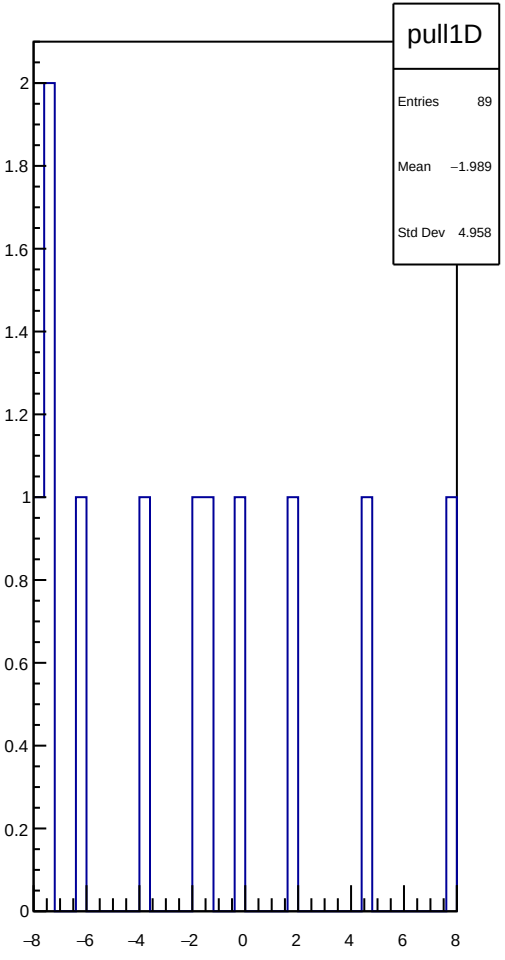

yield_sam1_rms vs run
χ² / ndf 2.329e+04 / 88
p0 0.01448 ± 1.107e−05
0.022
0.02
0.018
0.016
0.014
0.012

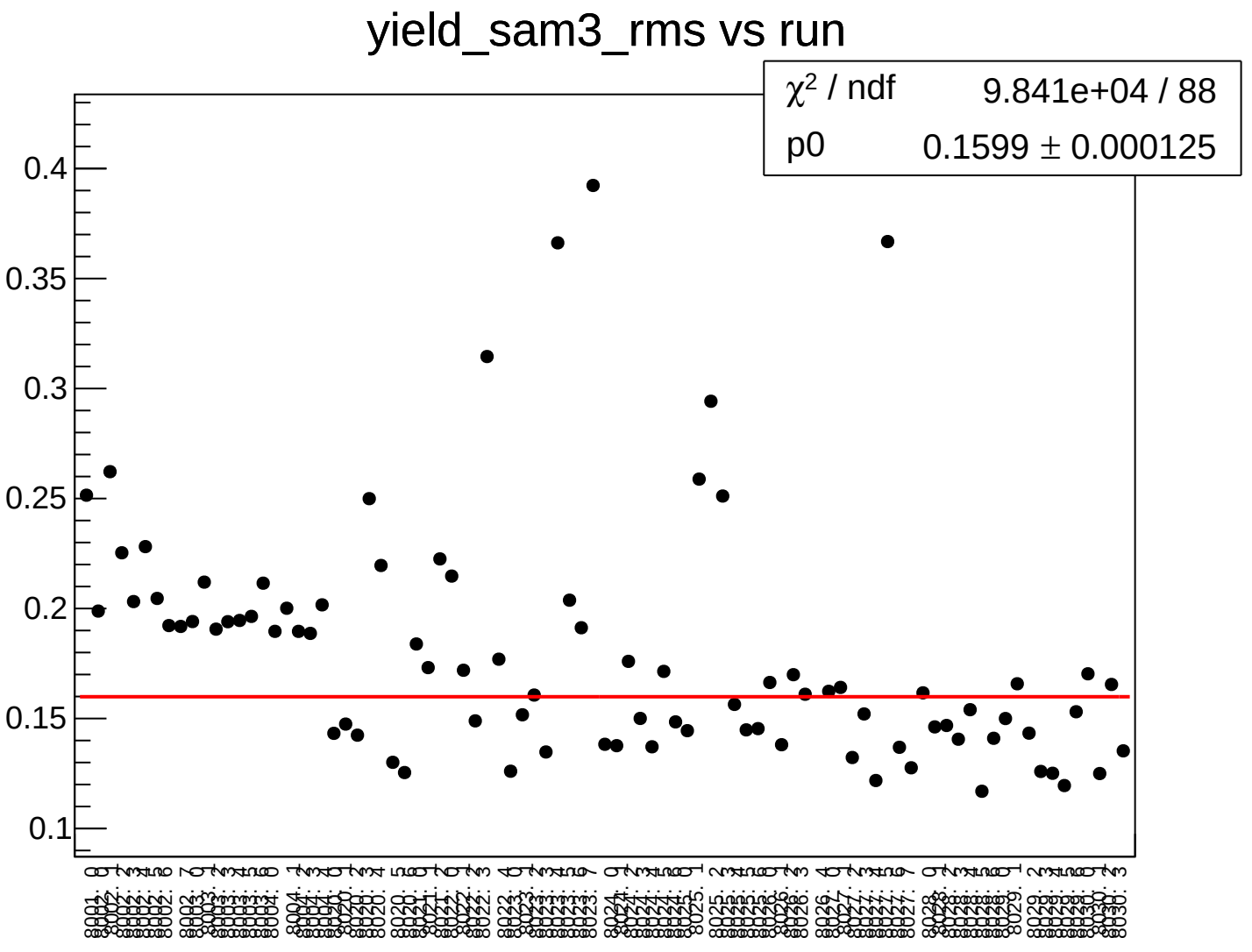

yield_sam2_mean vs run
χ² / ndf 1.125e+05 / 88
p0 26.28 ± 0.0002851
26.5
26.4
26.3
26.2
26.1
26
pull
Entries 89
Mean −208.8
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80

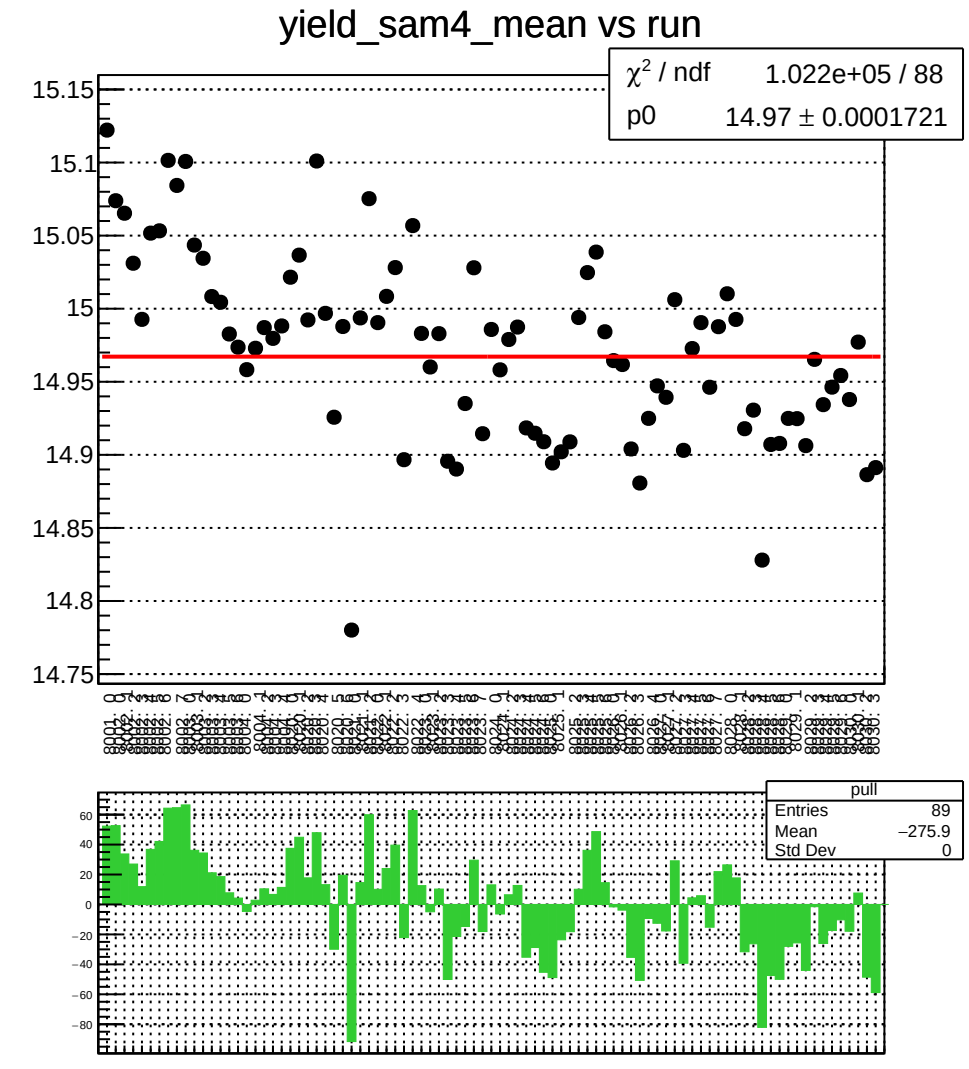

pull1D
Entries 89
Mean −0.482
Std Dev 4.372
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

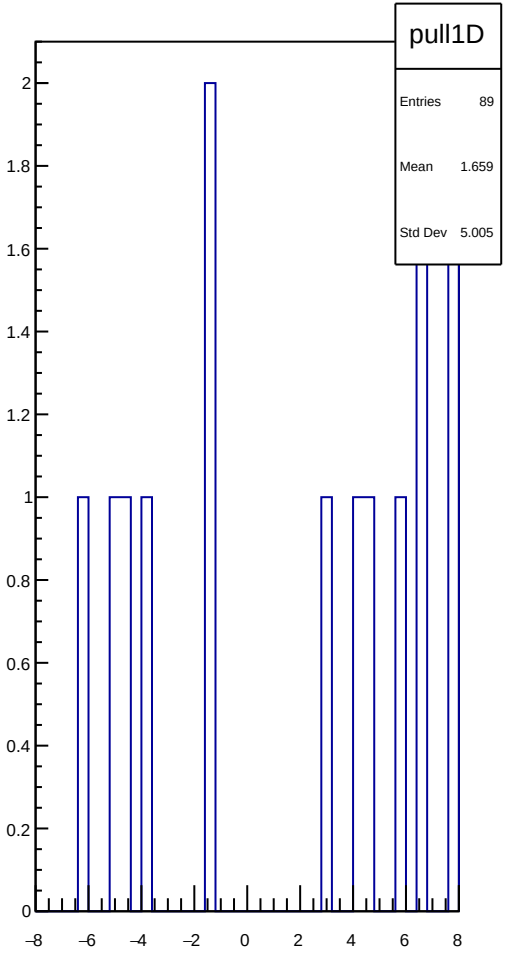

yield_sam2_rms vs run
χ^2 / ndf 6.951e+04 / 88
p0 0.2601 ± 0.0002016
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2

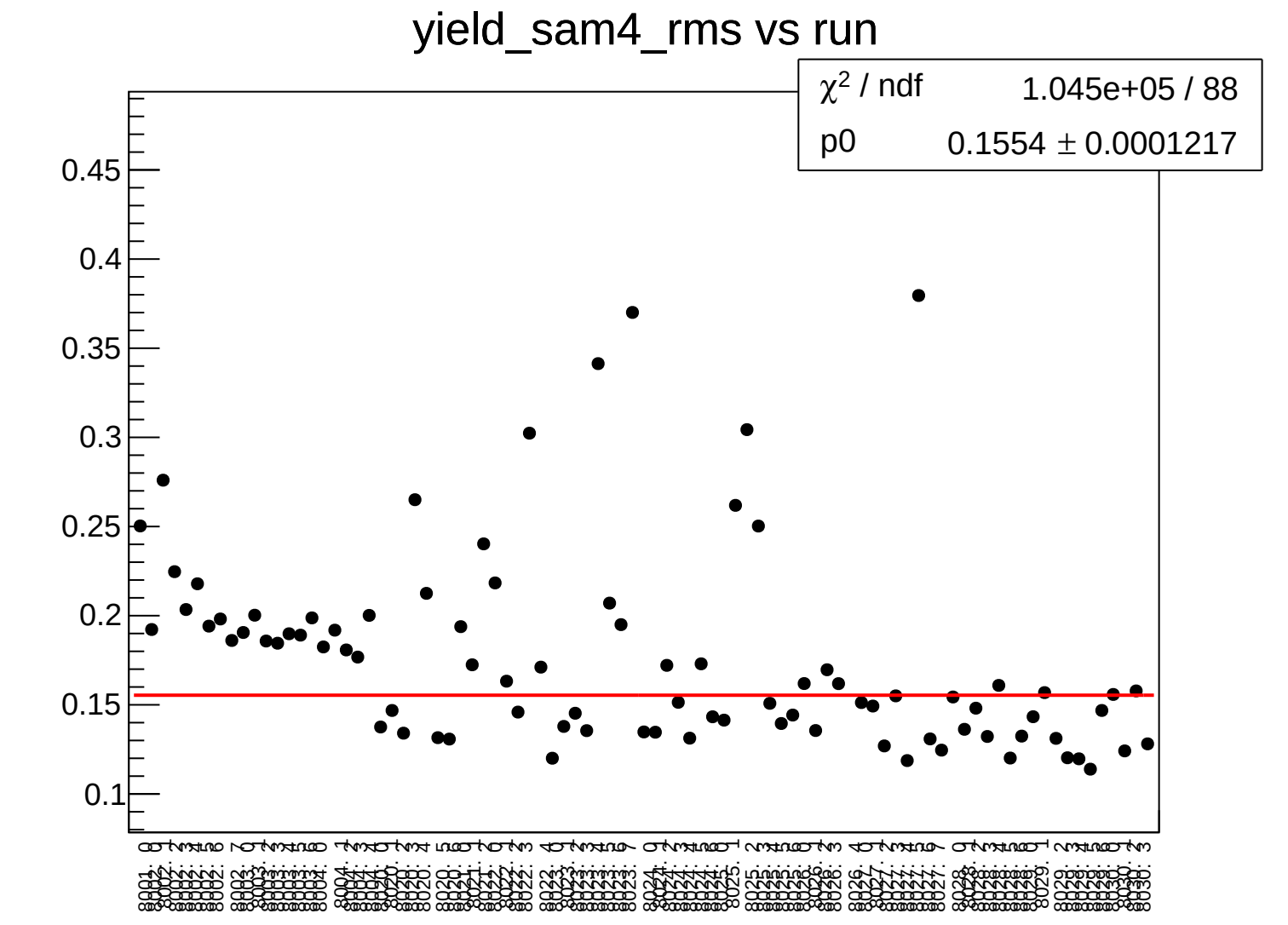

yield_sam3_mean vs run
χ² / ndf 1.638e+05 / 88
p0 27.73 ± 0.0001768
28
27.9
27.8
27.7
27.6
pull
Entries 89
Mean −164.5
Std Dev 0
100
50
0
−50
−100

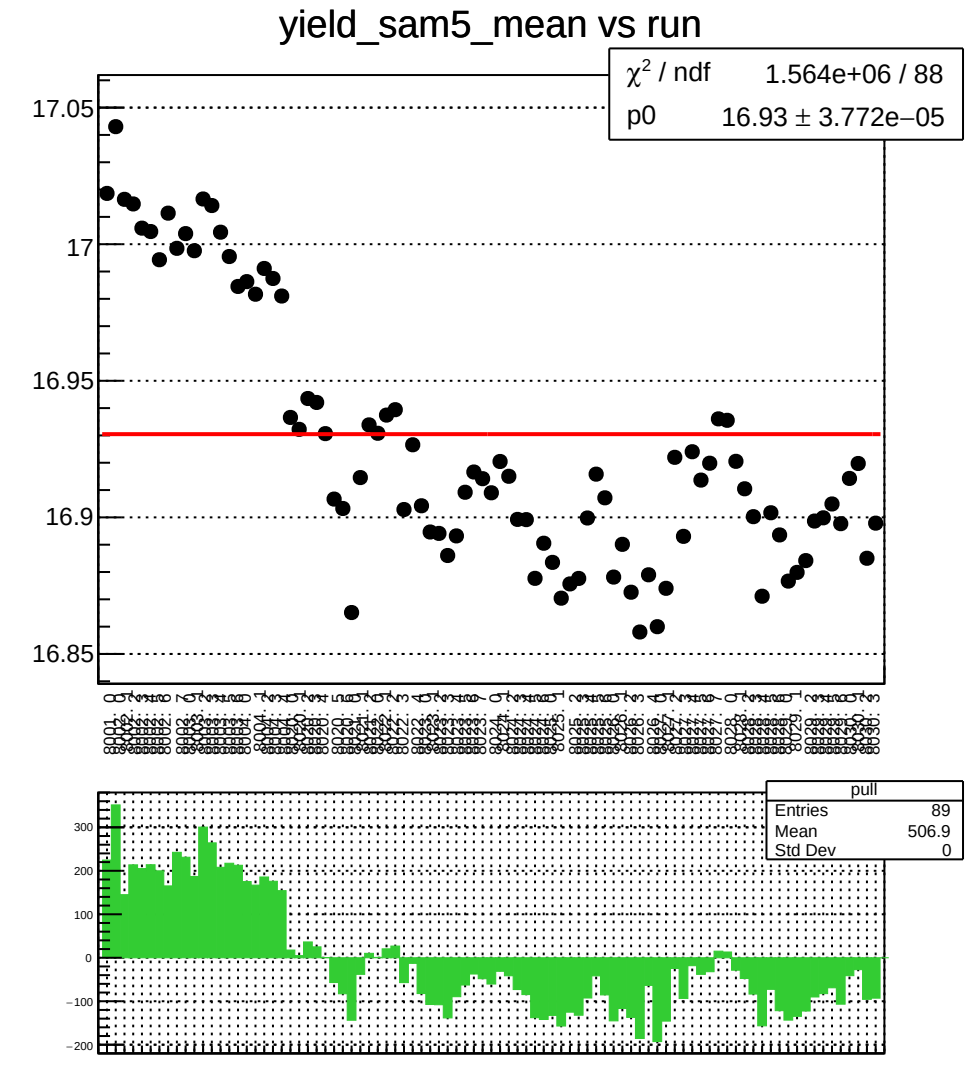

pull1D
Entries 89
Mean −1.989
Std Dev 4.958
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

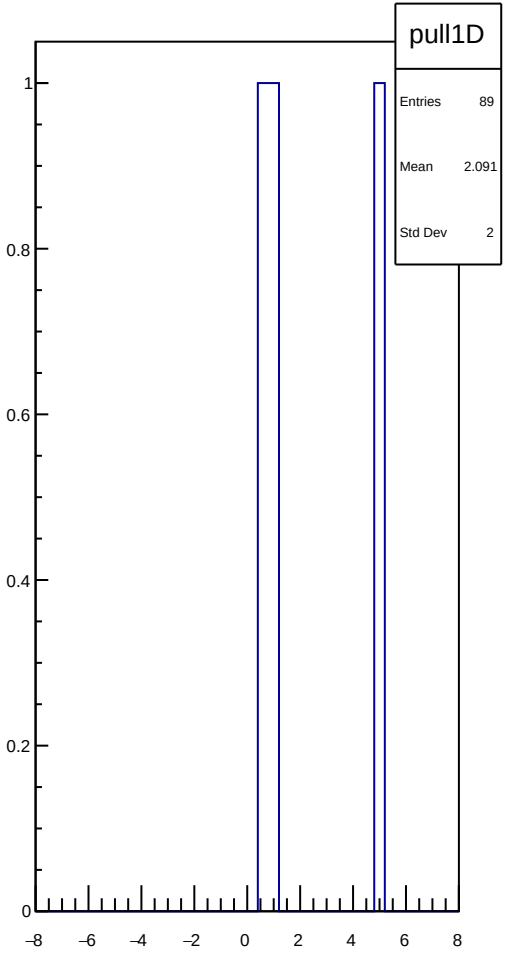

yield_sam3_rms vs run
χ² / ndf 9.841e+04 / 88
p0 0.1599 ± 0.000125
0.4
0.35
0.3
0.25
0.2
0.15
0.1

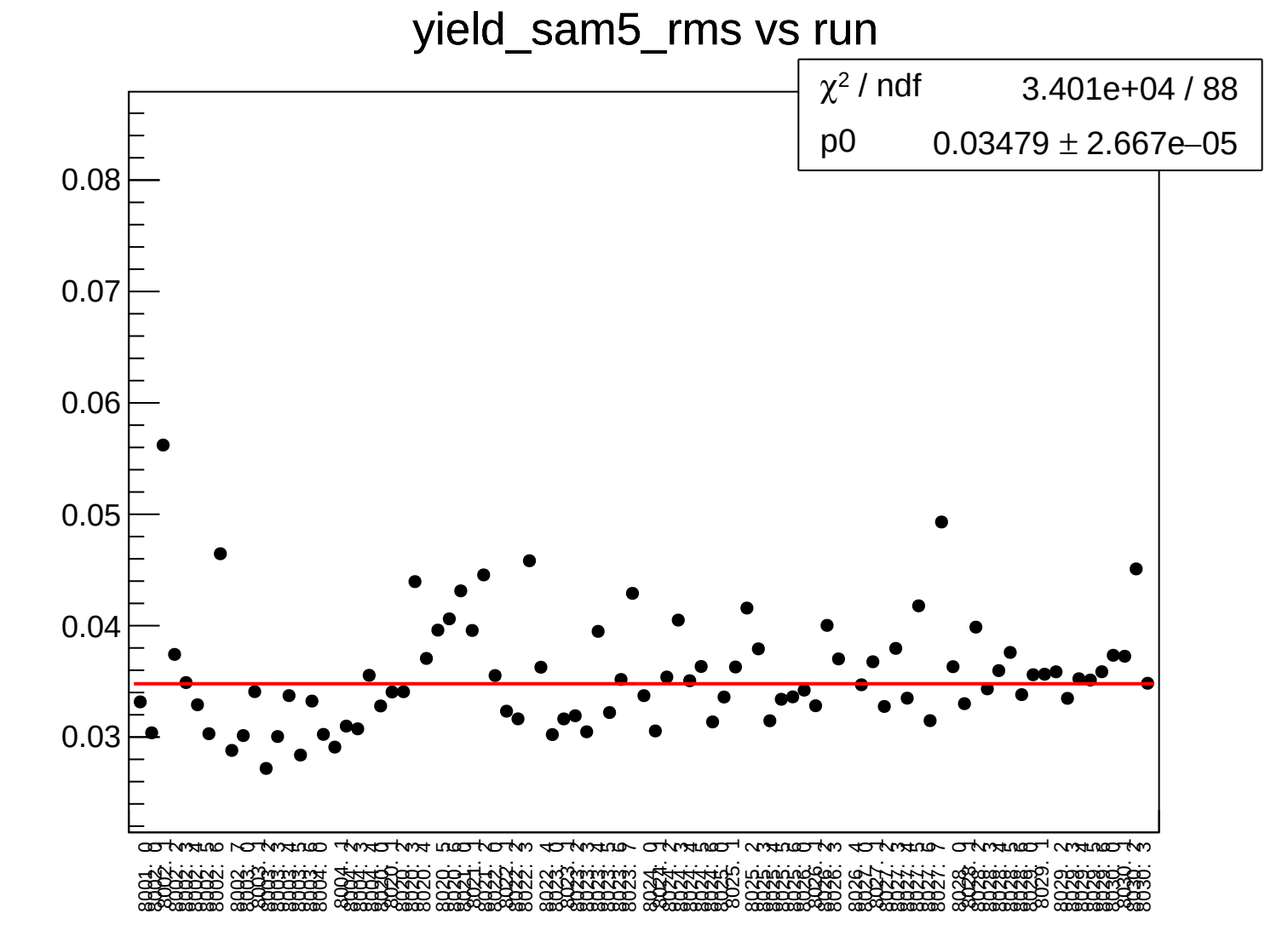

yield_sam4_mean vs run
χ² / ndf 1.022e+05 / 88
p0 14.97 ± 0.0001721
15.15
15.1
15.05
15
14.95
14.9
14.85
14.8
14.75
pull
Entries 89
Mean −275.9
Std Dev 0
60
40
20
0
−20
−40
−60
−80

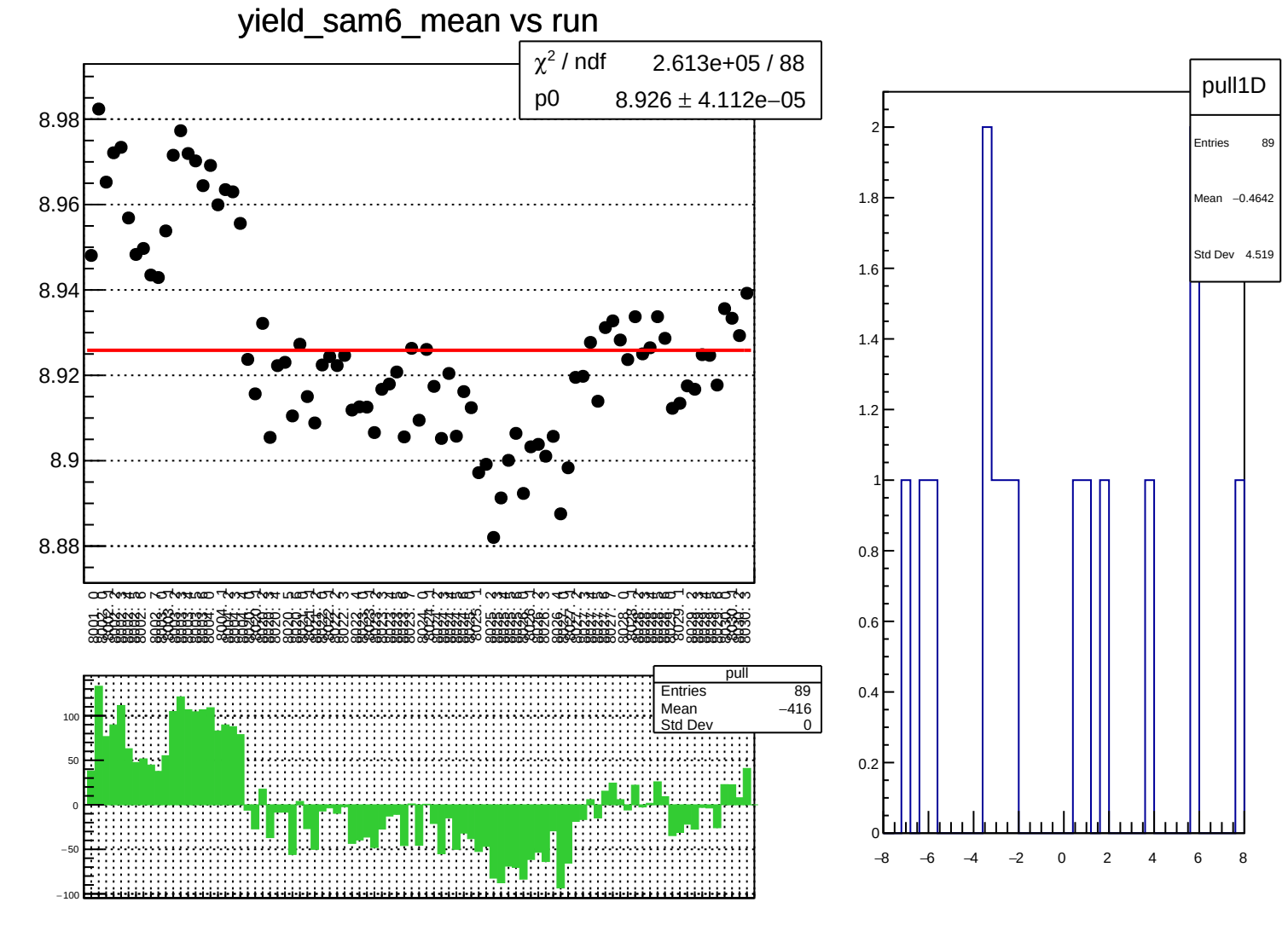

pull1D
Entries 89
Mean 1.659
Std Dev 5.005
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

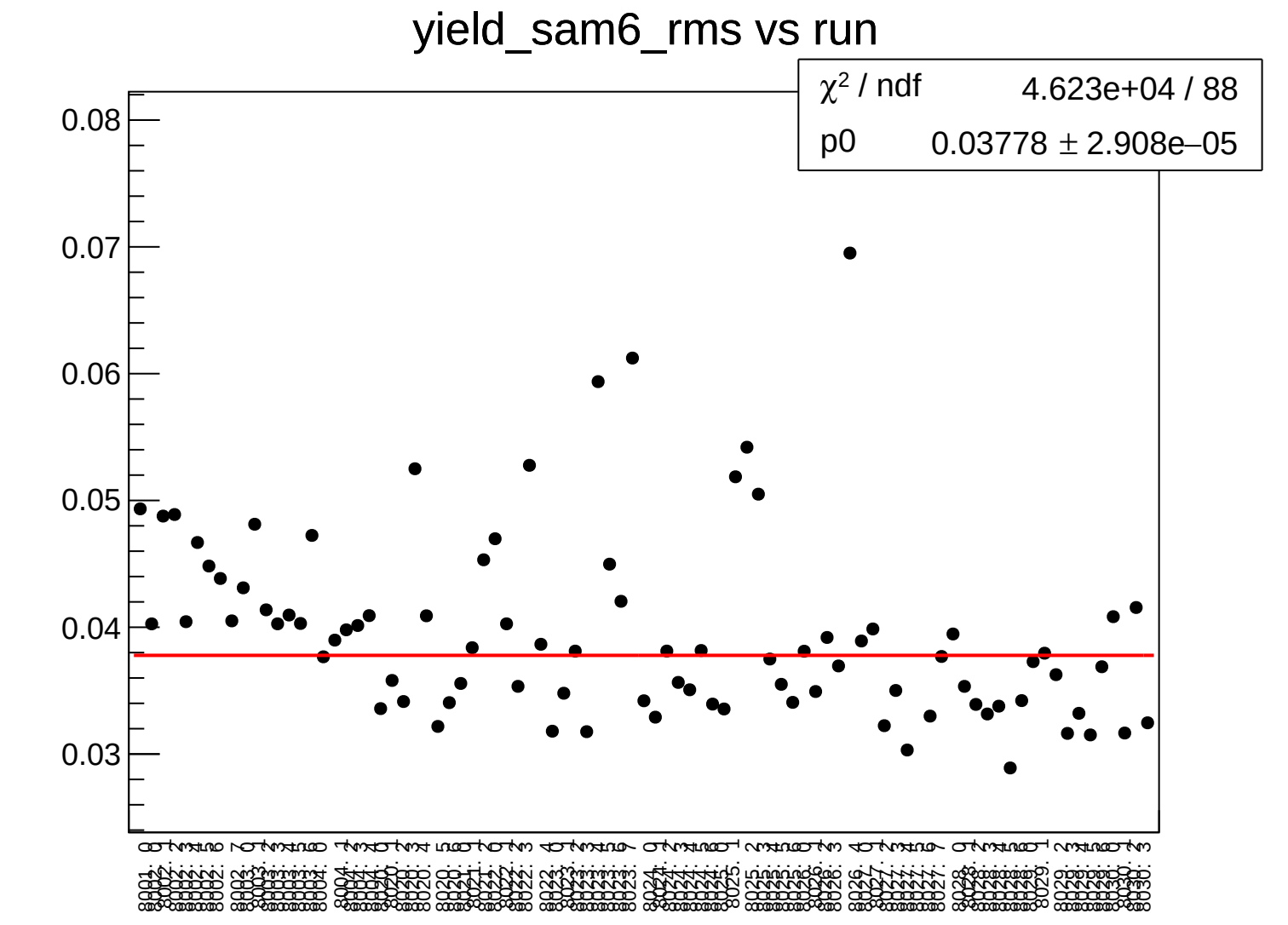

yield_sam4_rms vs run
χ² / ndf 1.045e+05 / 88
p0 0.1554 ± 0.0001217
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1

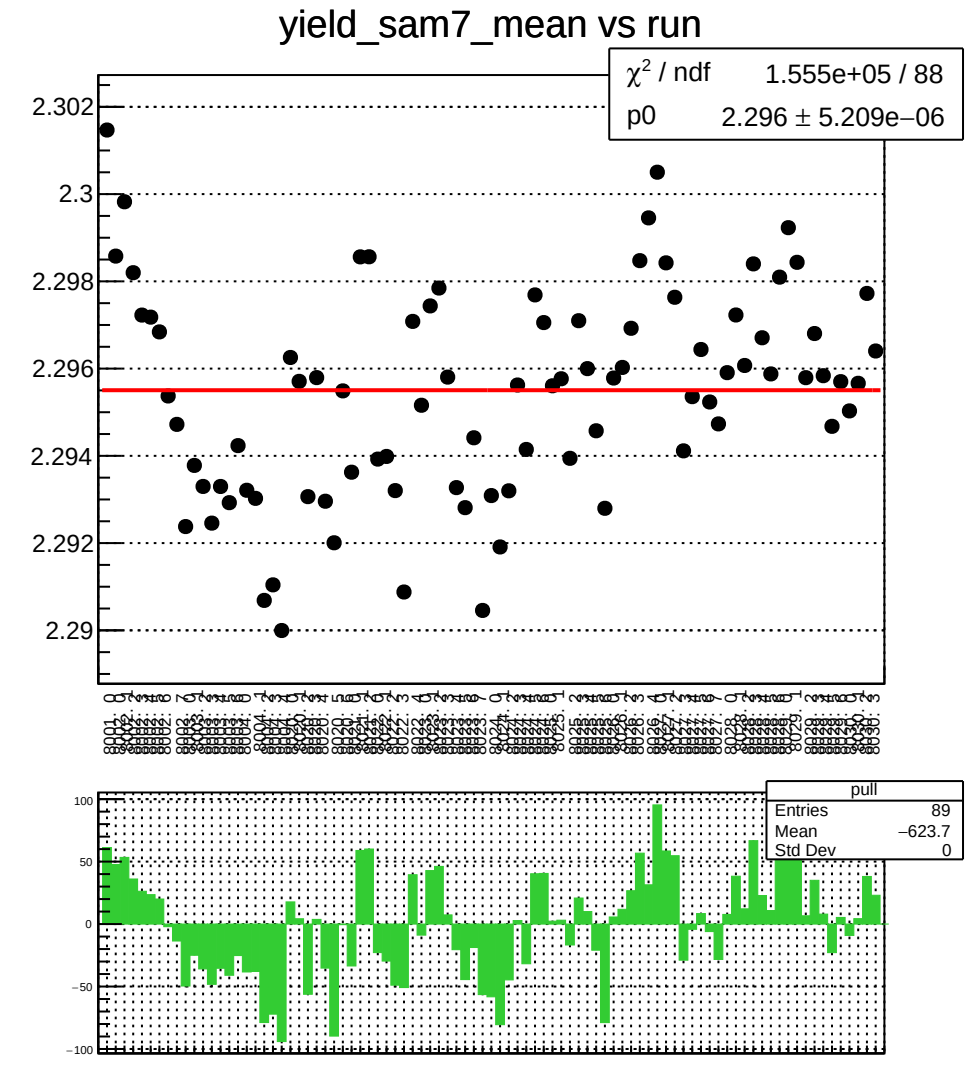

yield_sam5_mean vs run
χ² / ndf 1.564e+06 / 88
p0 16.93 ± 3.772e−05
17.05
17
16.95
16.9
16.85
pull
Entries 89
Mean 506.9
Std Dev 0
300
200
100
0
−100
−200

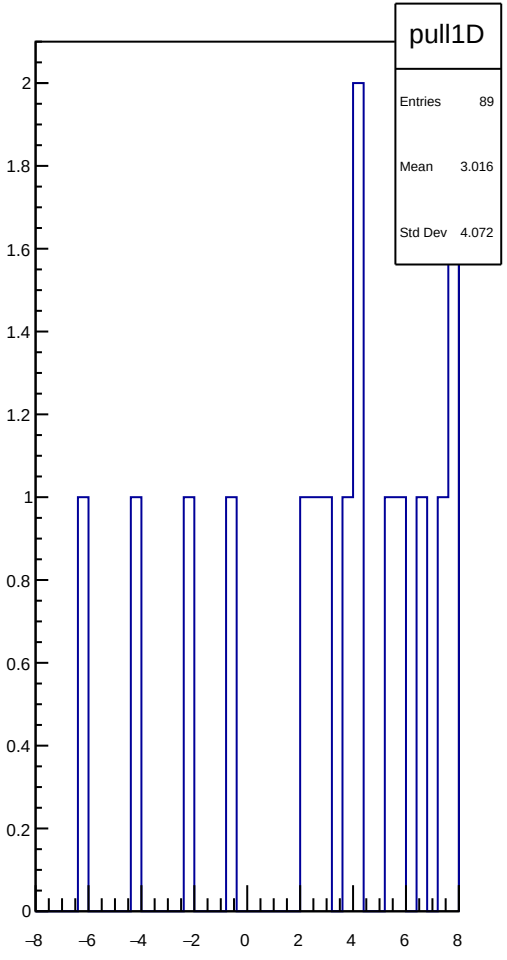

pull1D
Entries 89
Mean 2.091
Std Dev 2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

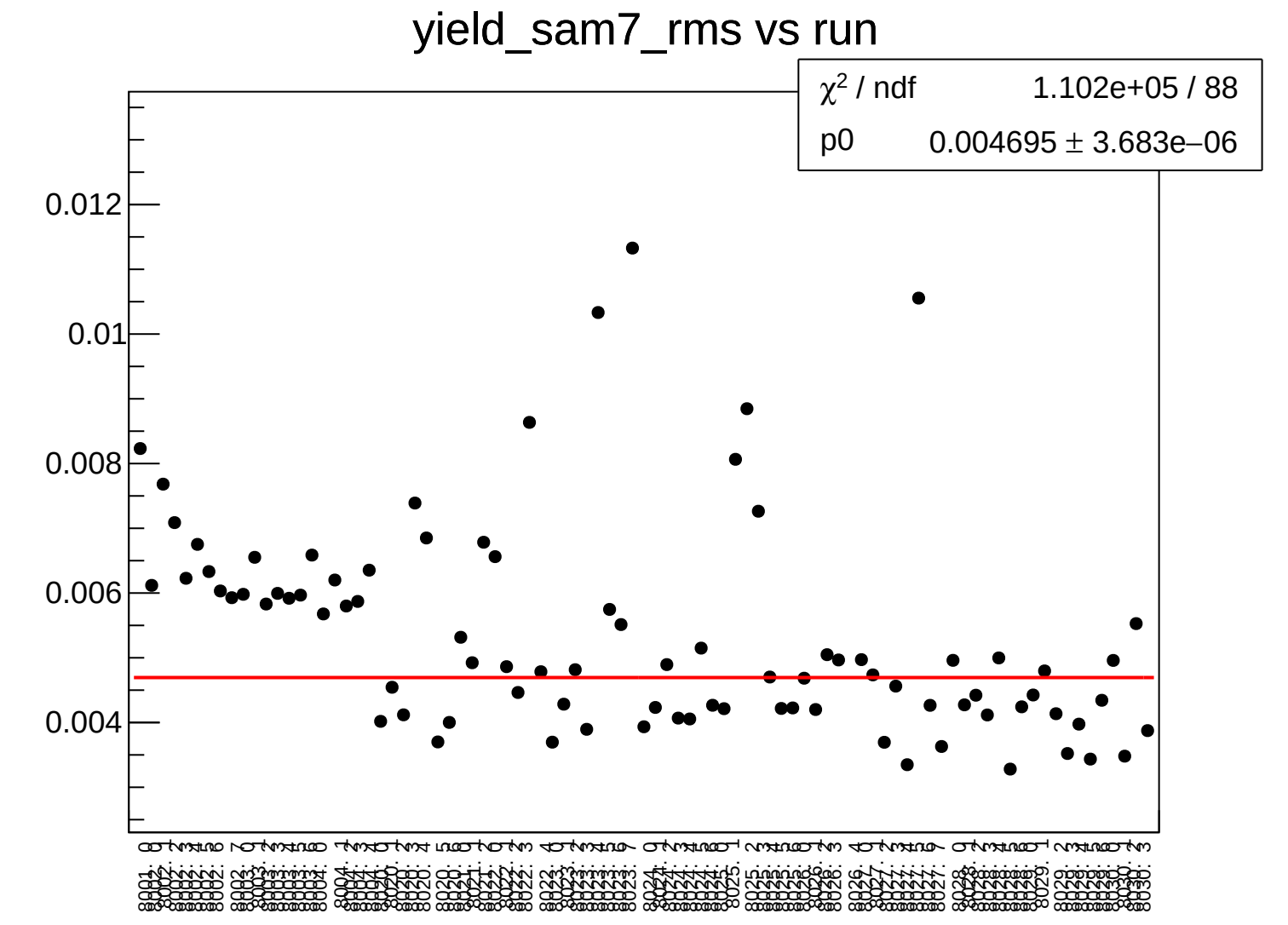

yield_sam5_rms vs run
χ² / ndf 3.401e+04 / 88
p0 0.03479 ± 2.667e−05
0.08
0.07
0.06
0.05
0.04
0.03

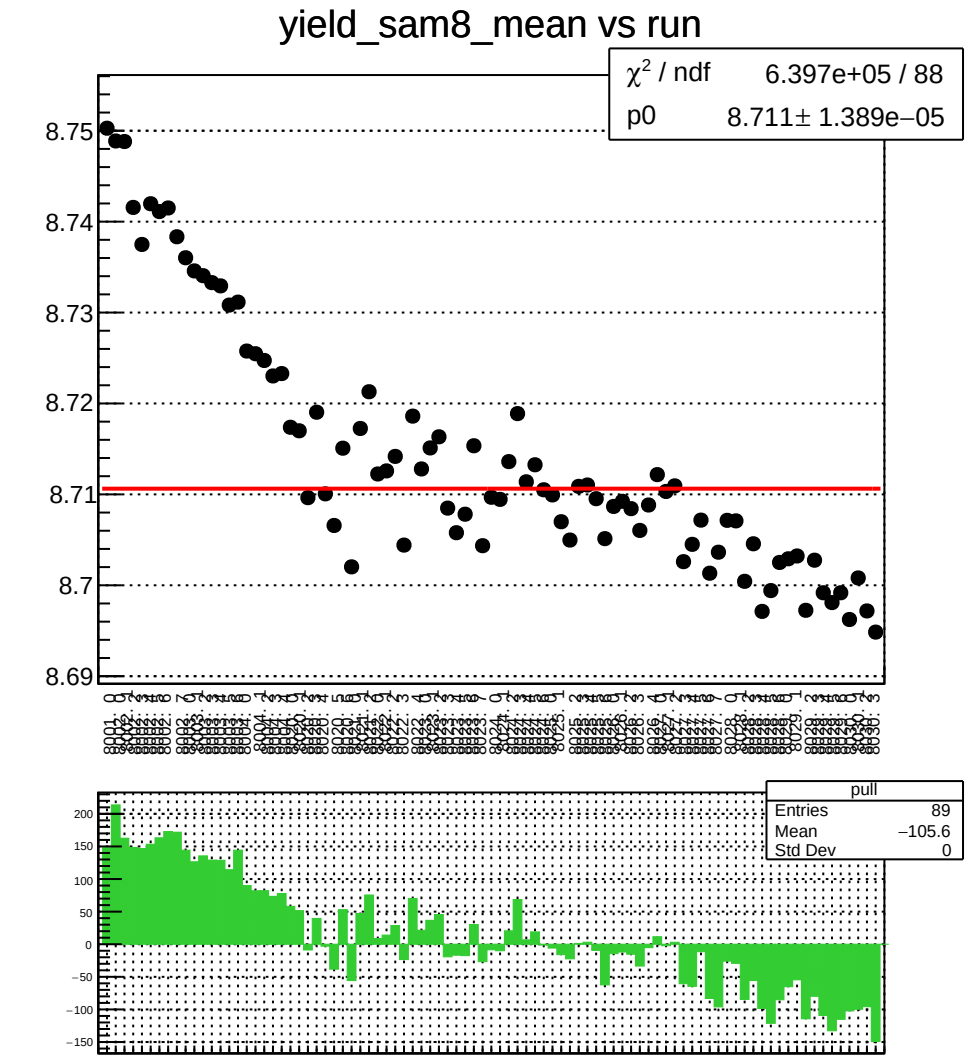

yield_sam6_mean vs run
χ² / ndf 2.613e+05 / 88
p0 8.926 ± 4.112e−05
8.98
8.96
8.94
8.92
8.9
8.88
pull
Entries 89
Mean −416
Std Dev 0
100
50
0
−50
−100
pull1D
Entries 89
Mean −0.4642
Std Dev 4.519
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

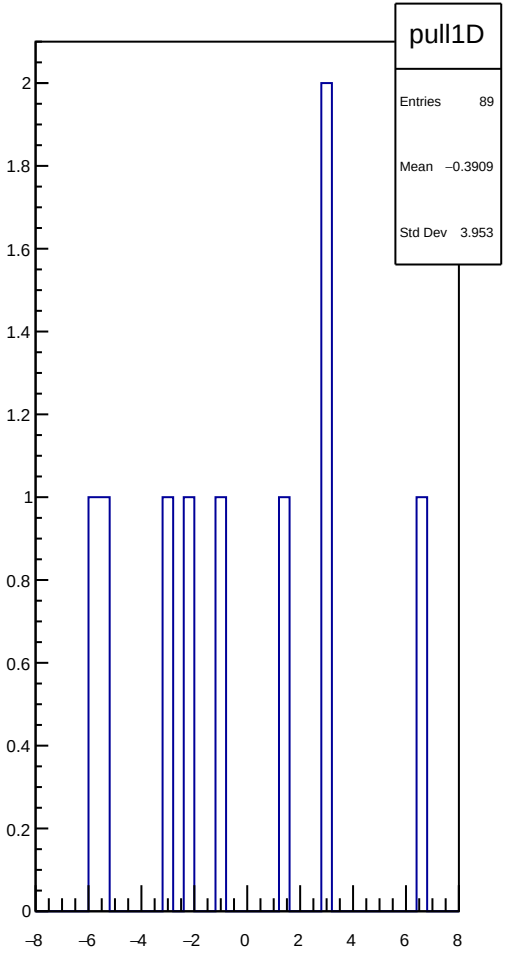

yield_sam6_rms vs run
χ² / ndf 4.623e+04 / 88
p0 0.03778 ± 2.908e−05
0.08
0.07
0.06
0.05
0.04
0.03

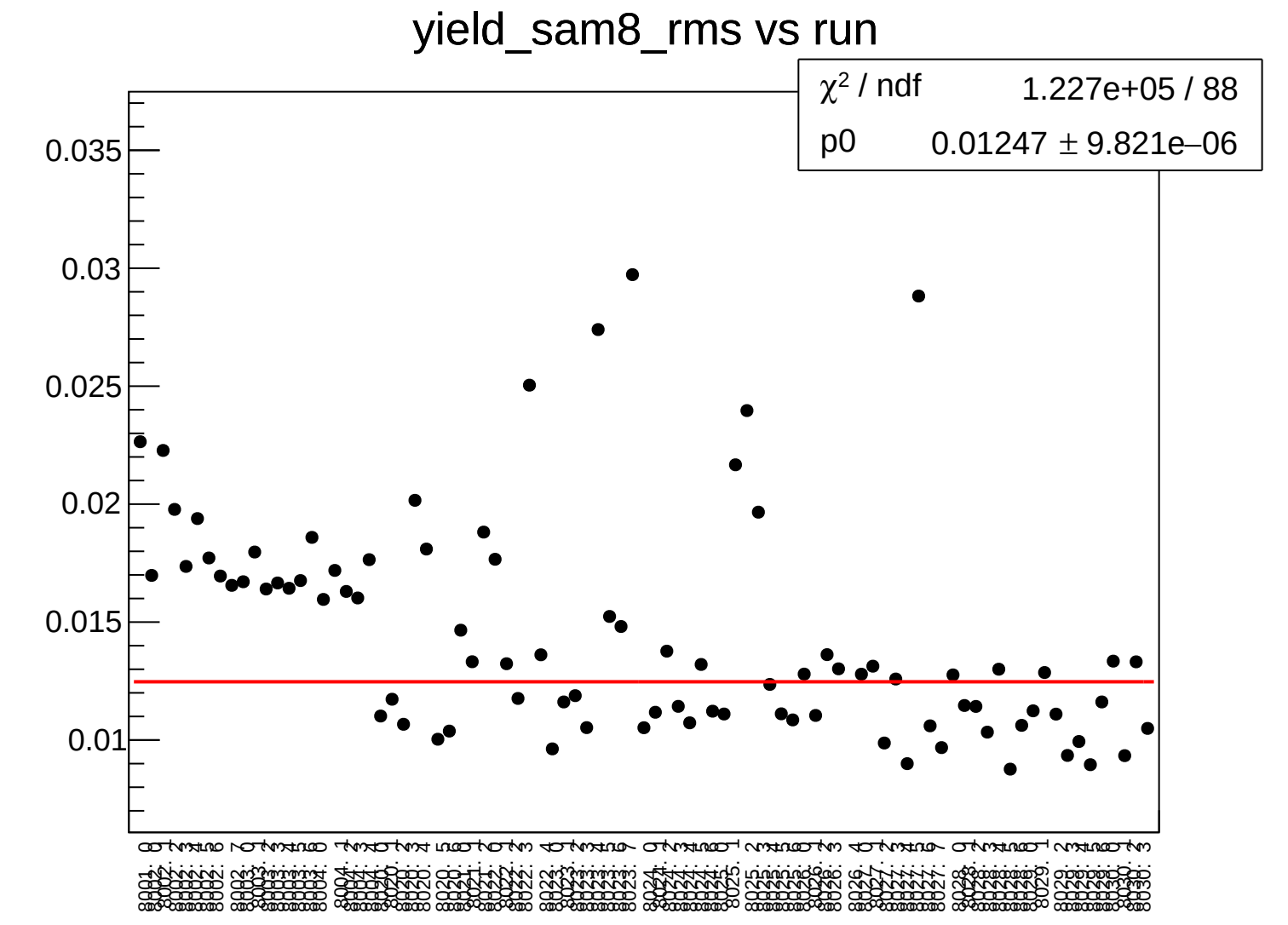

yield_sam7_mean vs run
χ² / ndf 1.555e+05 / 88
p0 2.296 ± 5.209e−06
2.302
2.3
2.298
2.296
2.294
2.292
2.29
pull
Entries 89
Mean −623.7
Std Dev 0
100
50
0
−50
−100

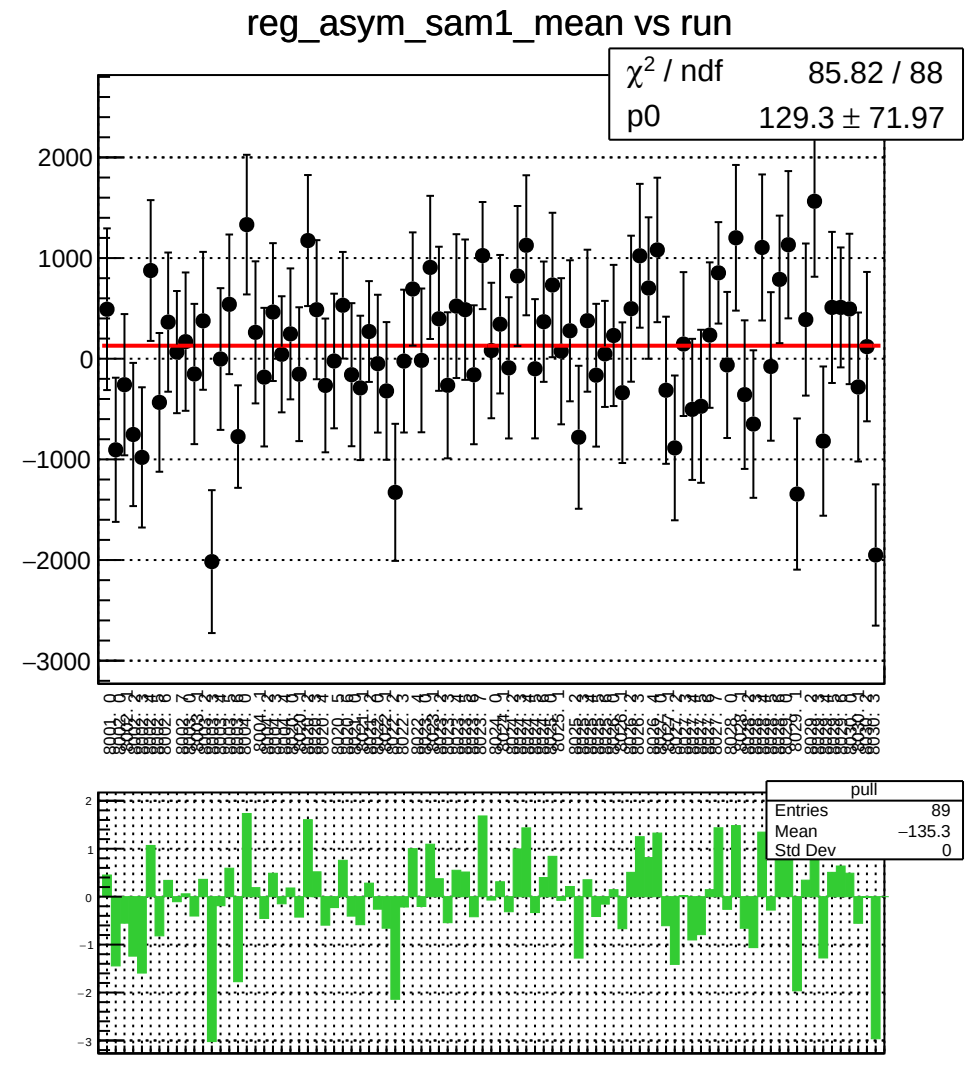

pull1D
Entries 89
Mean 3.016
Std Dev 4.072
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

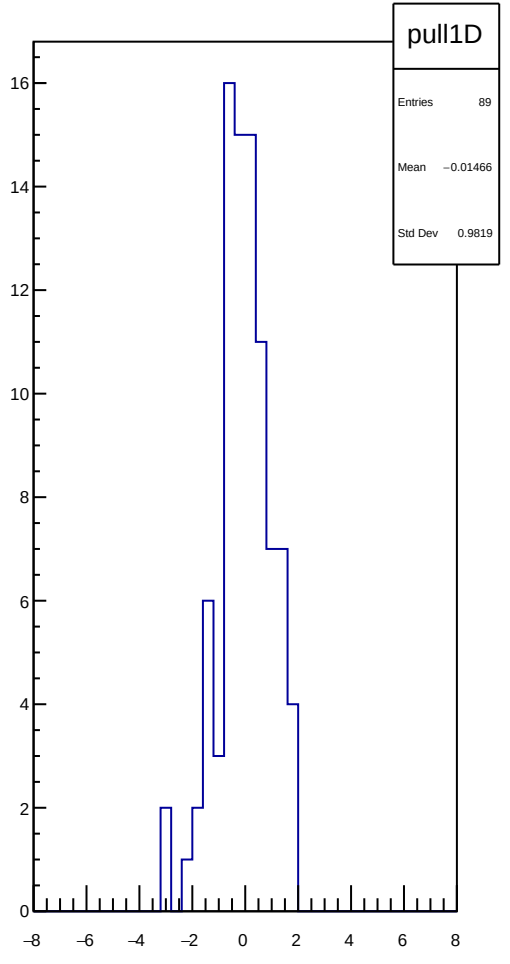

yield_sam7_rms vs run
χ² / ndf 1.102e+05 / 88
p0 0.004695 ± 3.683e−06
0.012
0.01
0.008
0.006
0.004

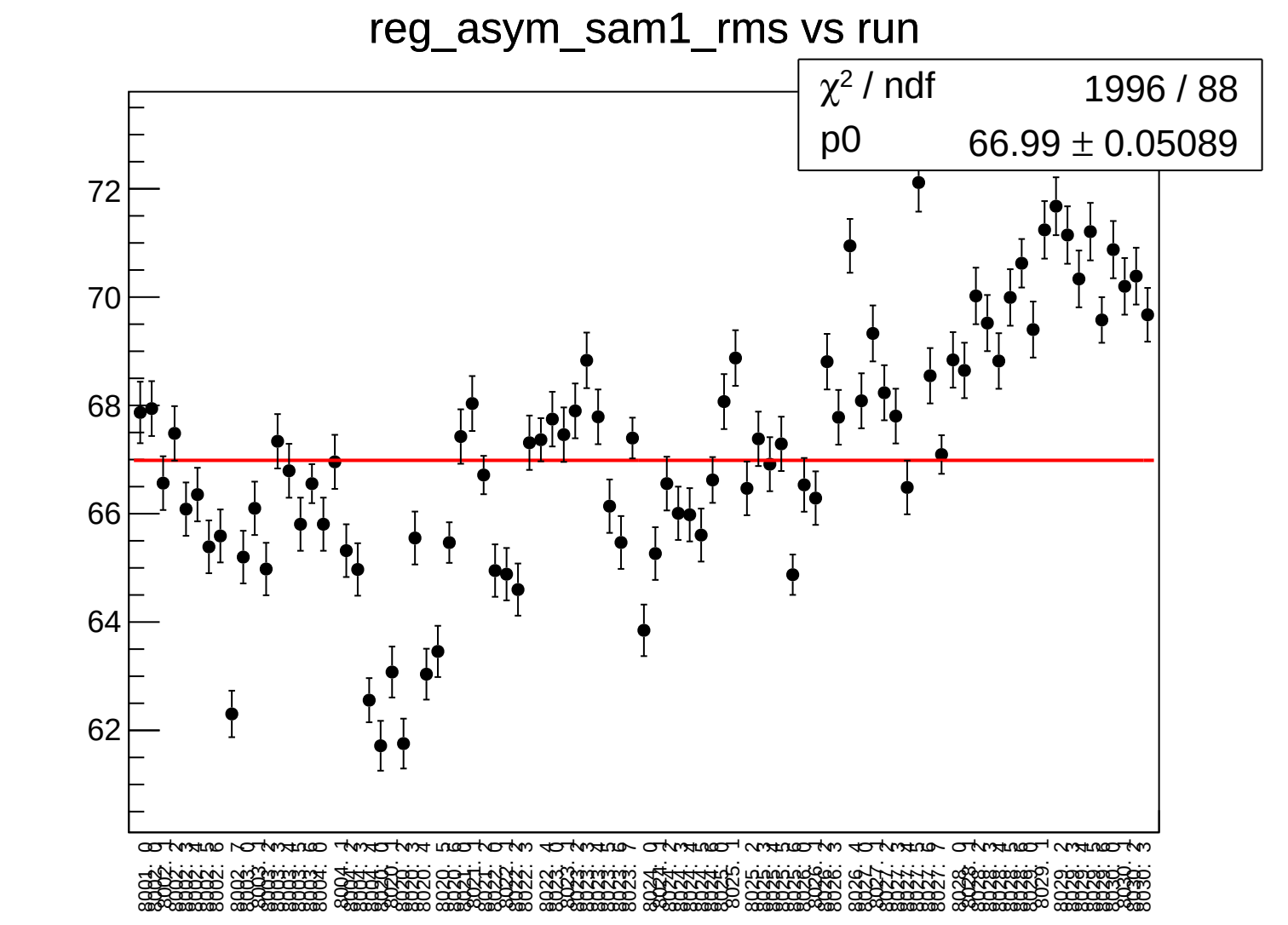

yield_sam8_mean vs run
χ² / ndf 6.397e+05 / 88
p0 8.711± 1.389e−05
8.75
8.74
8.73
8.72
8.71
8.7
8.69
pull
Entries 89
Mean −105.6
Std Dev 0
200
150
100
50
0
−50
−100
−150

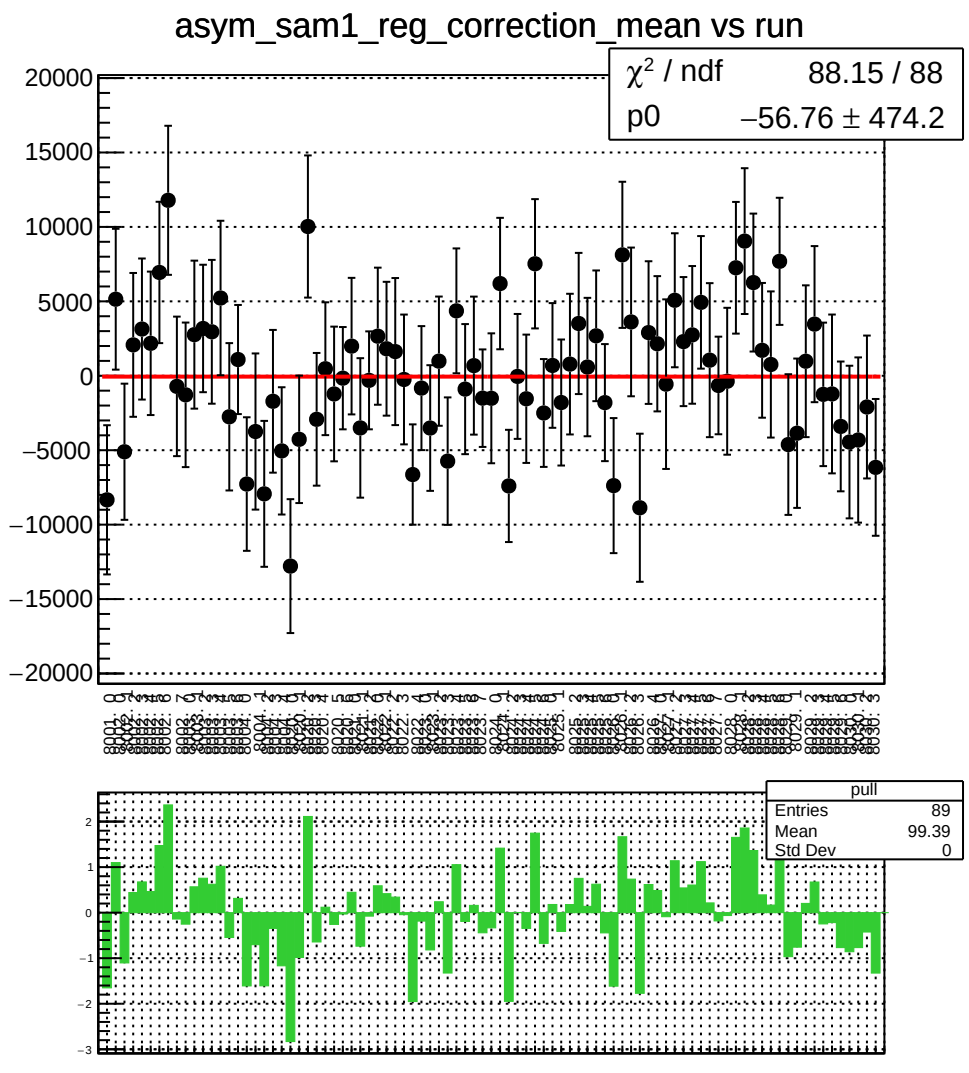

pull1D
Entries 89
Mean −0.3909
Std Dev 3.953
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

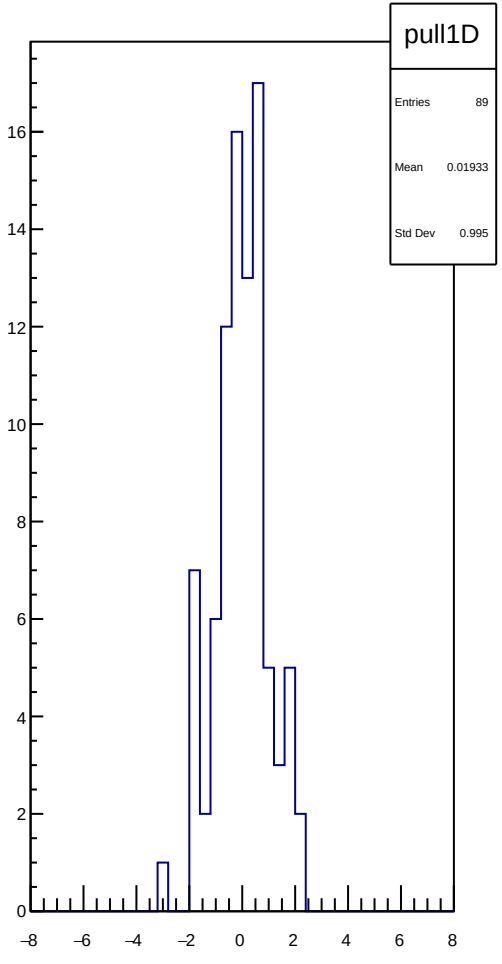

yield_sam8_rms vs run
χ² / ndf 1.227e+05 / 88
p0 0.01247 ± 9.821e–06
0.035
0.03
0.025
0.02
0.015
0.01

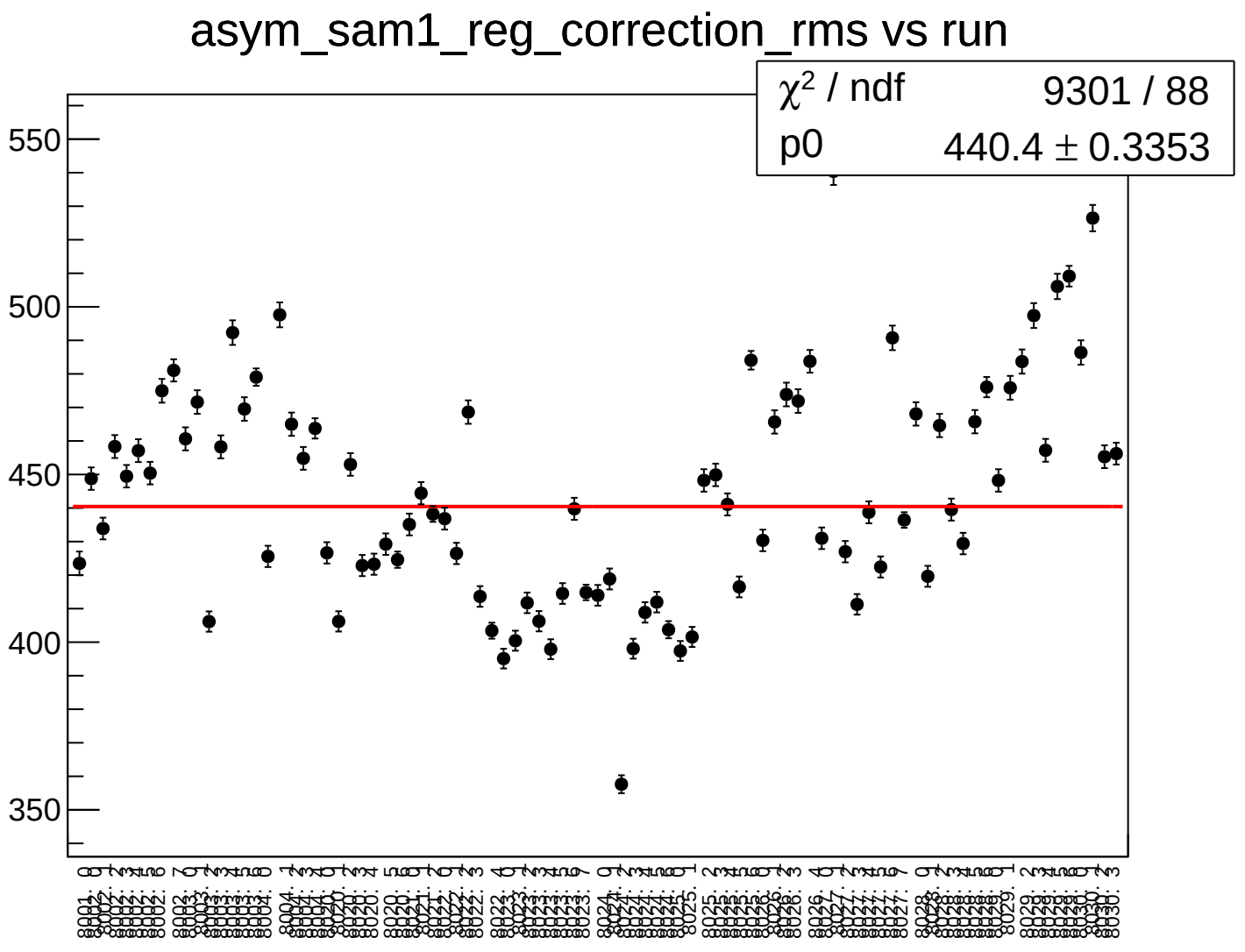

reg_asym_sam1_mean vs run
χ² / ndf 85.82 / 88
p0 129.3 ± 71.97
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean −135.3
Std Dev 0
2
1
0
−1
−2
−3

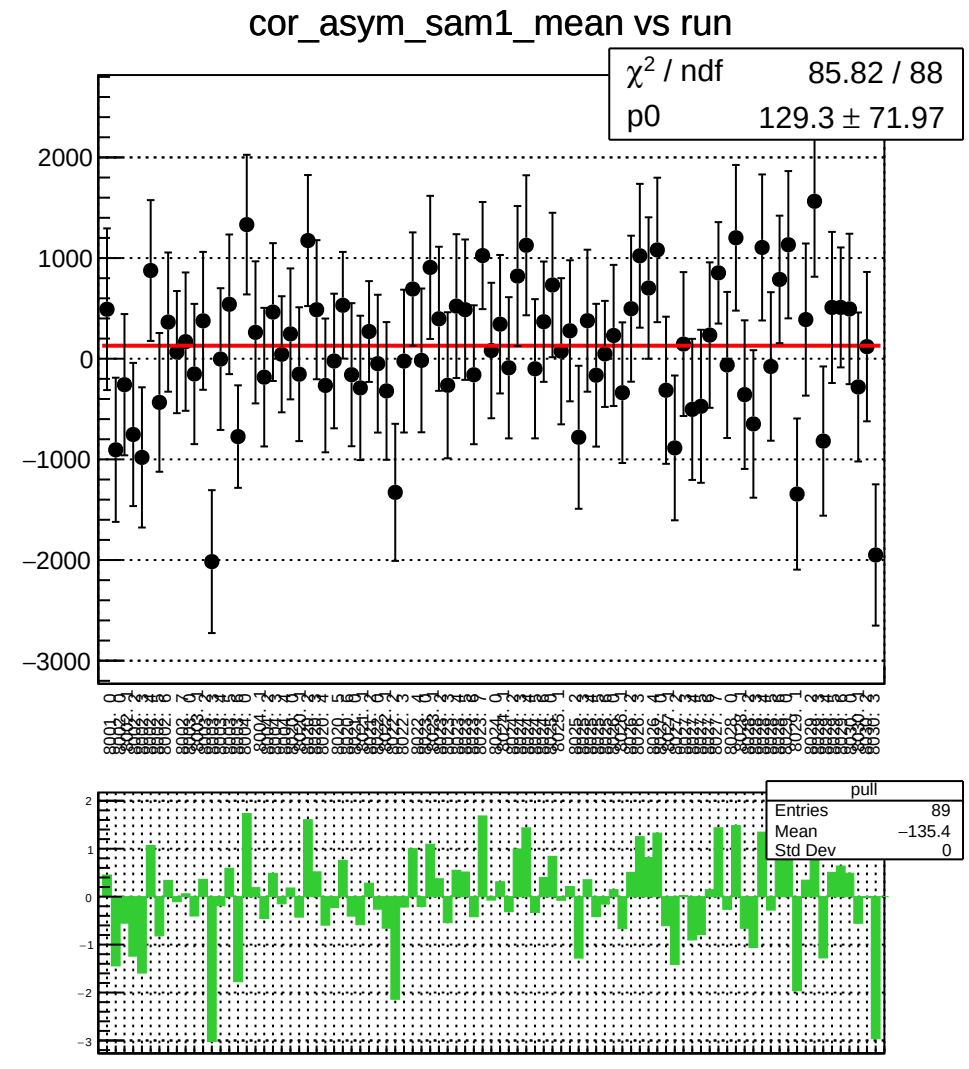

pull1D
Entries 89
Mean −0.01466
Std Dev 0.9819
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

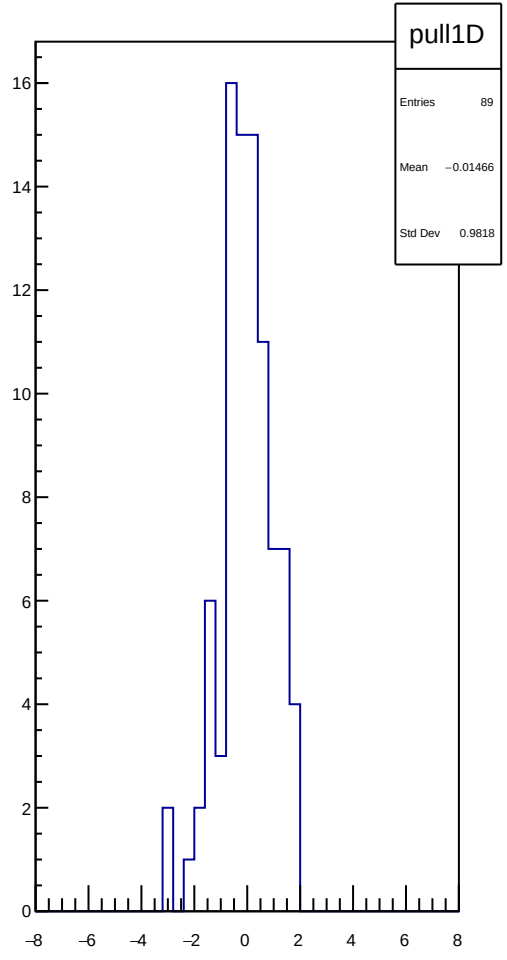

reg_asym_sam1_rms vs run
χ² / ndf 1996 / 88
p0 66.99 ± 0.05089
72
70
68
66
64
62

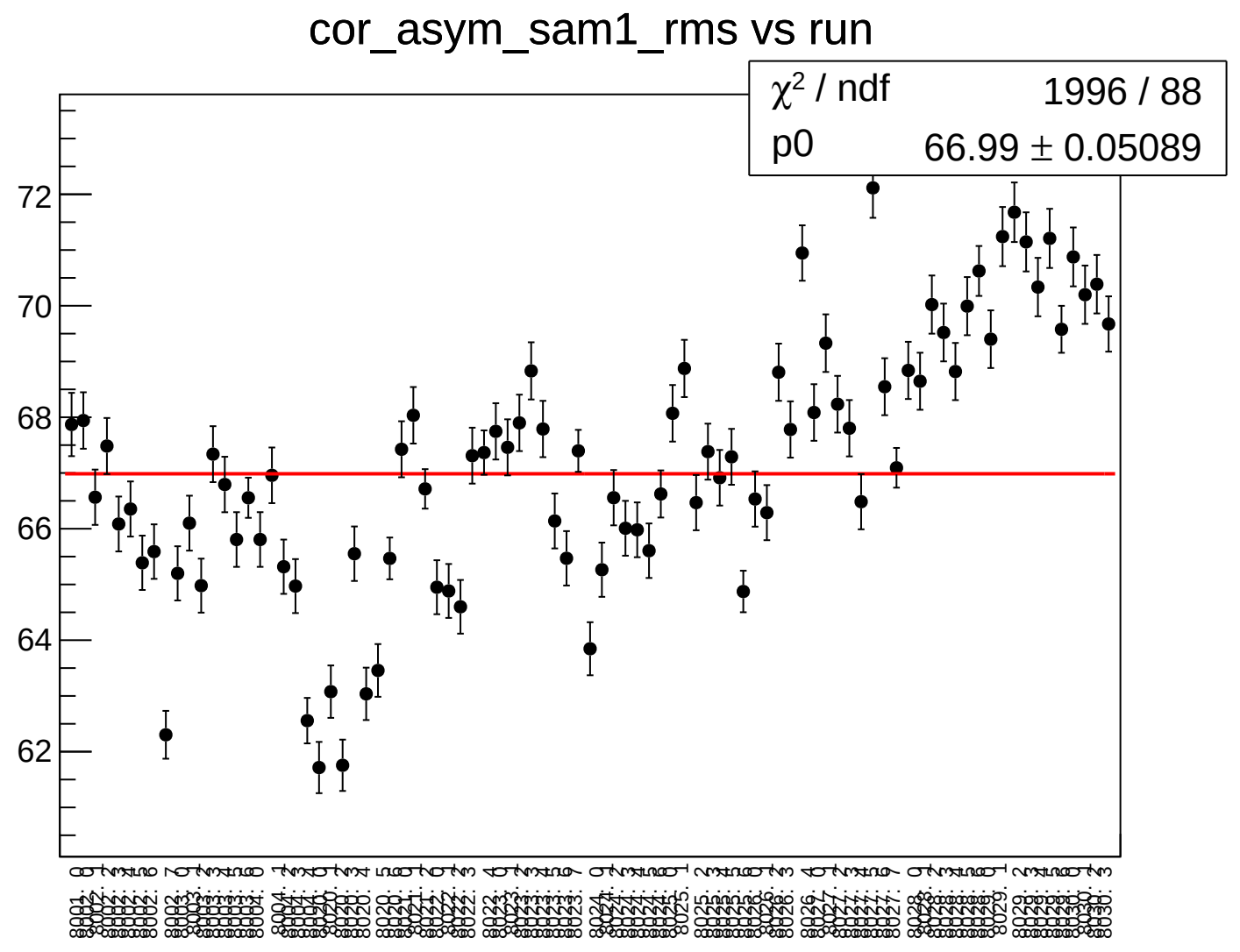

asym_sam1_reg_correction_mean vs run
χ² / ndf 88.15 / 88
p0 −56.76 ± 474.2
pull
Entries 89
Mean 99.39
Std Dev 0

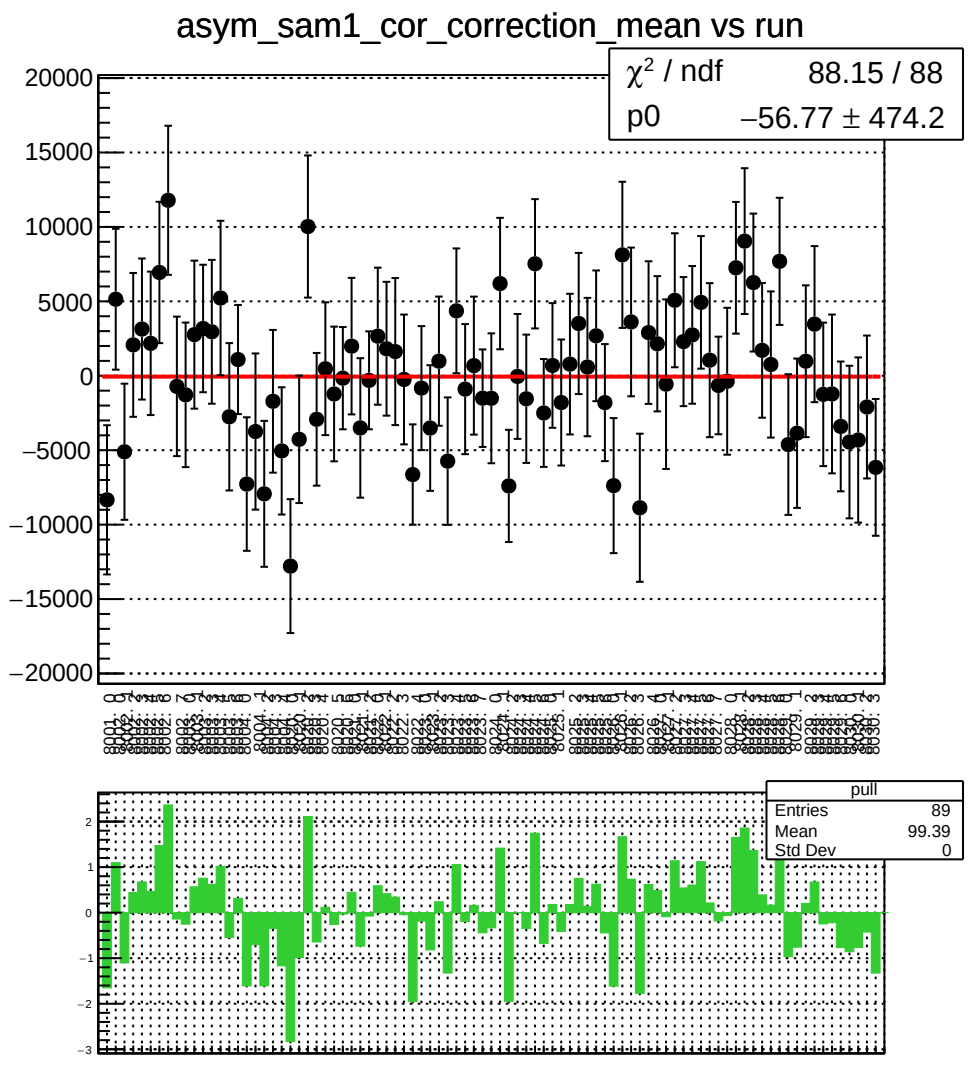

pull1D
Entries 89
Mean 0.01933
Std Dev 0.995

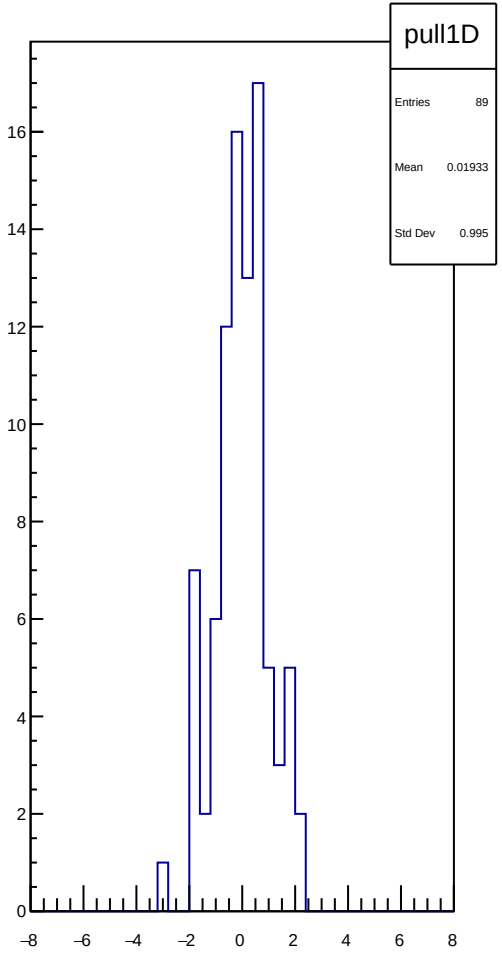

asym_sam1_reg_correction_rms vs run
χ^2 / ndf 9301 / 88
p0 440.4 ± 0.3353
550
500
450
400
350

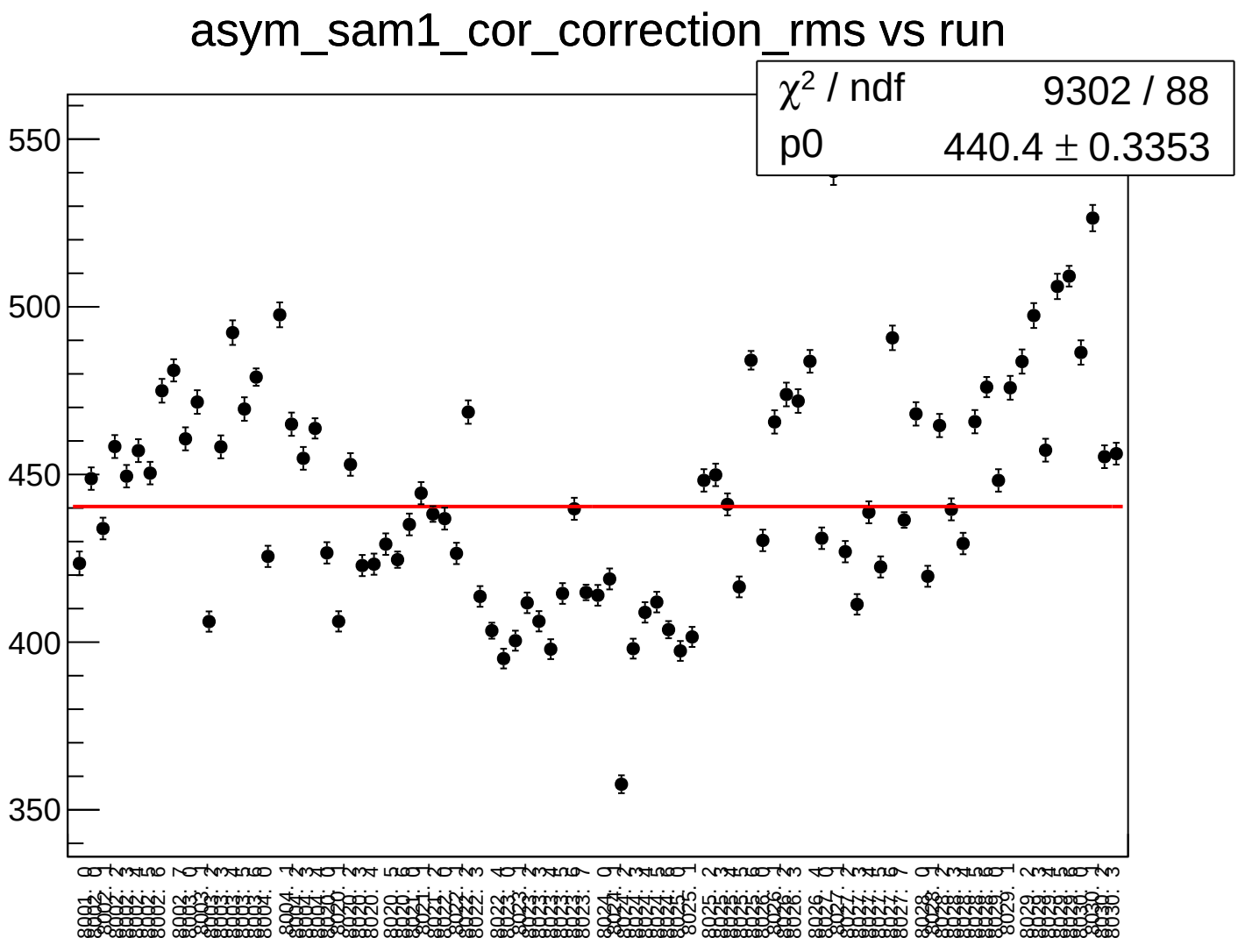

cor_asym_sam1_mean vs run
χ² / ndf 85.82 / 88
p0 129.3 ± 71.97
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean −135.4
Std Dev 0
2
1
0
−1
−2
−3

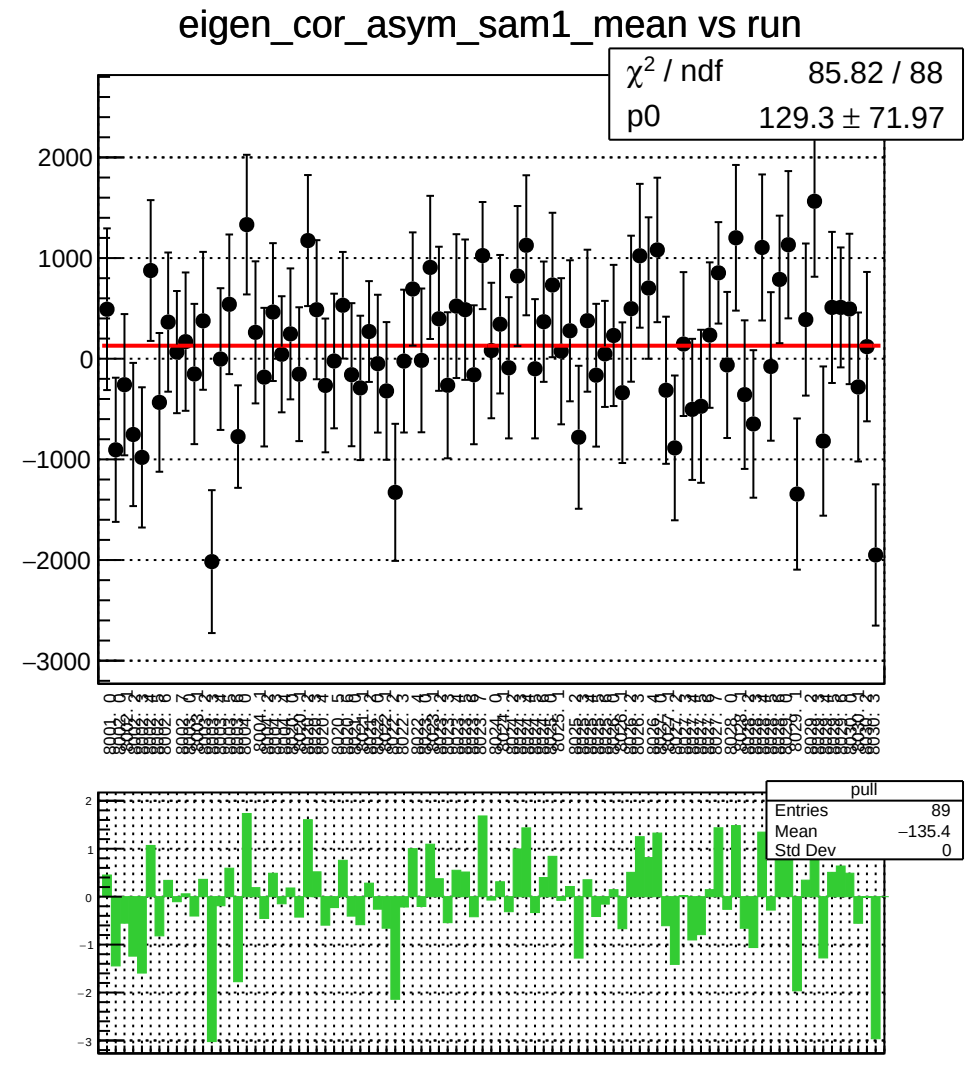

pull1D
Entries 89
Mean −0.01466
Std Dev 0.9818
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

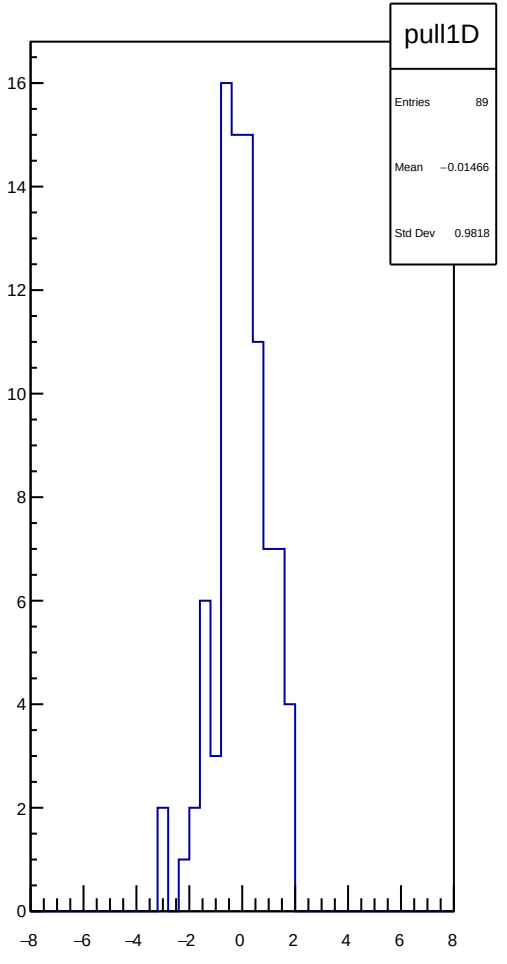

cor_asym_sam1_rms vs run
χ^2 / ndf 1996 / 88
p0 66.99 ± 0.05089
72
70
68
66
64
62

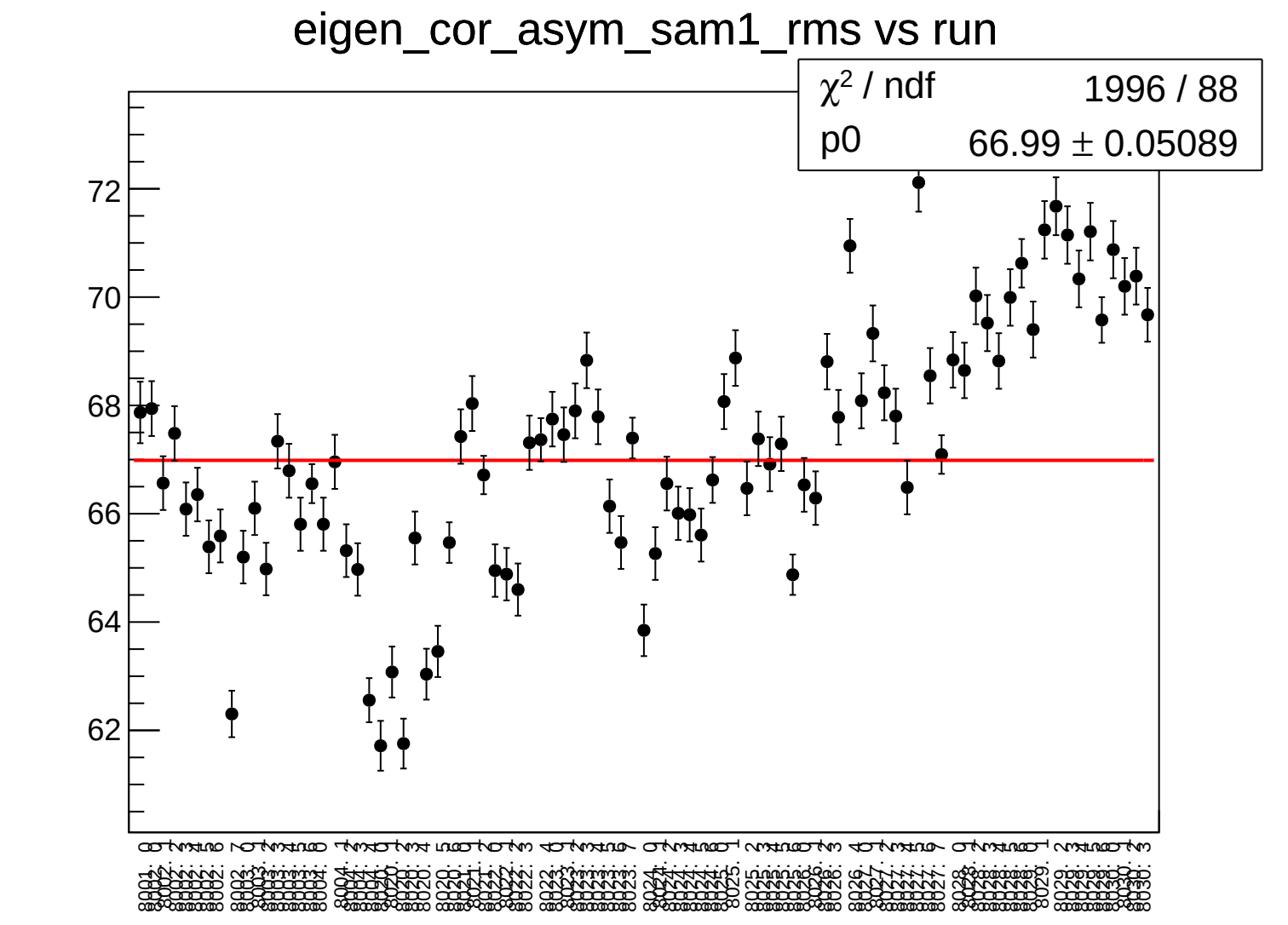

asym_sam1_cor_correction_mean vs run
χ² / ndf 88.15 / 88
p0 −56.77 ± 474.2
pull
Entries 89
Mean 99.39
Std Dev 0

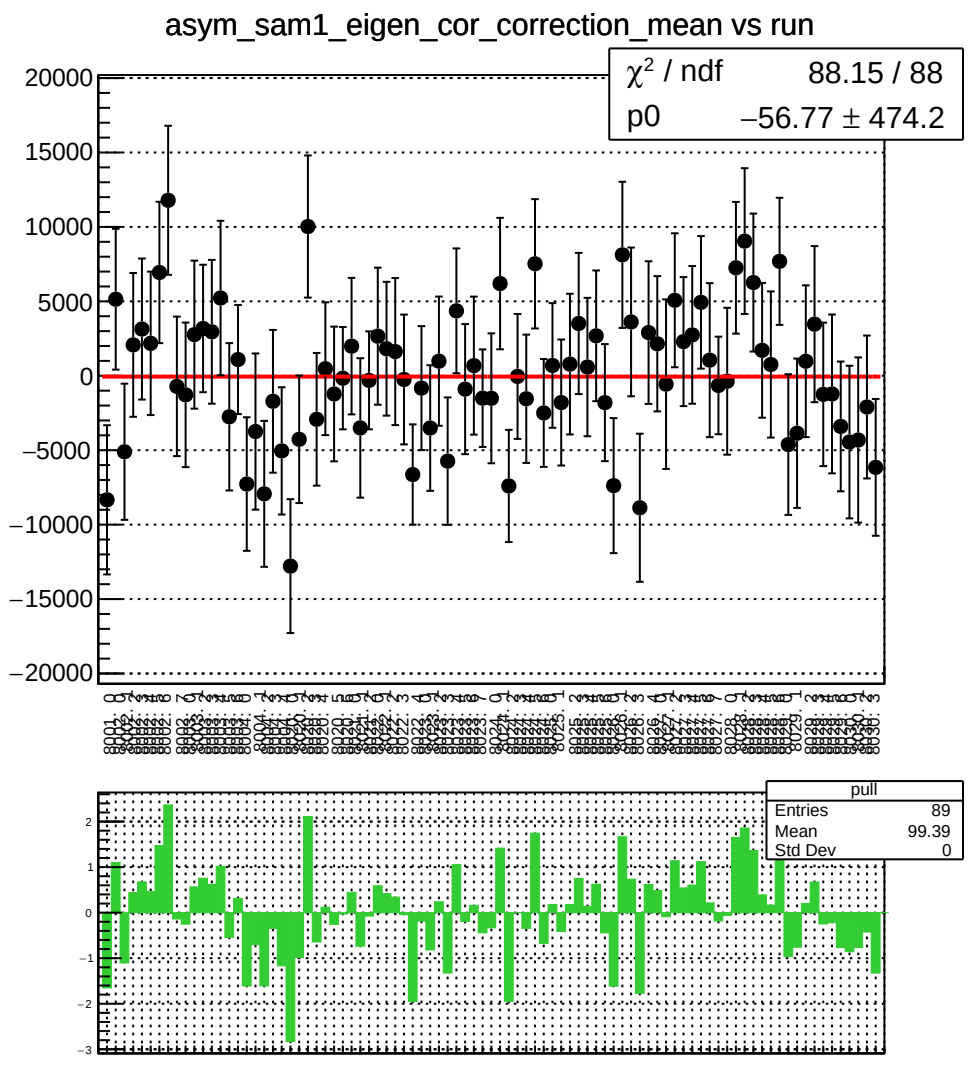

pull1D
Entries 89
Mean 0.01933
Std Dev 0.995

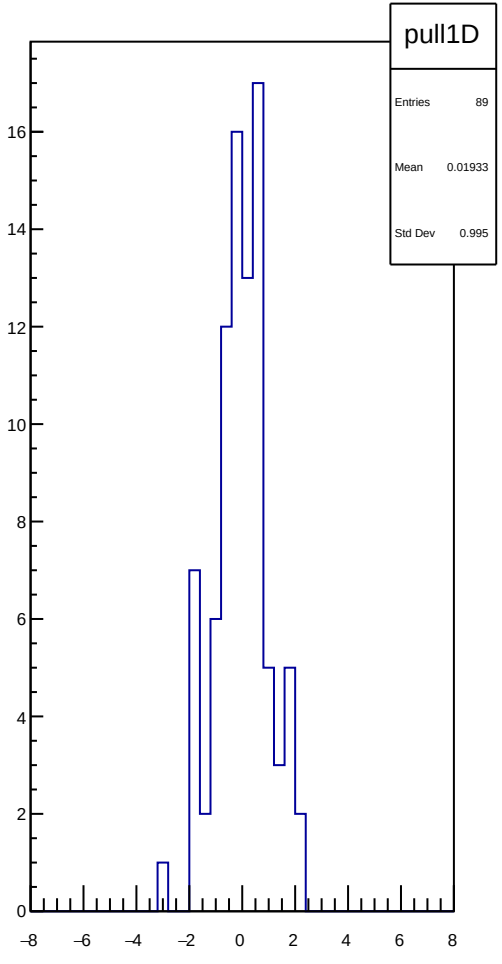

asym_sam1_cor_correction_rms vs run
χ^2 / ndf 9302 / 88
p0 440.4 ± 0.3353
550
500
450
400
350

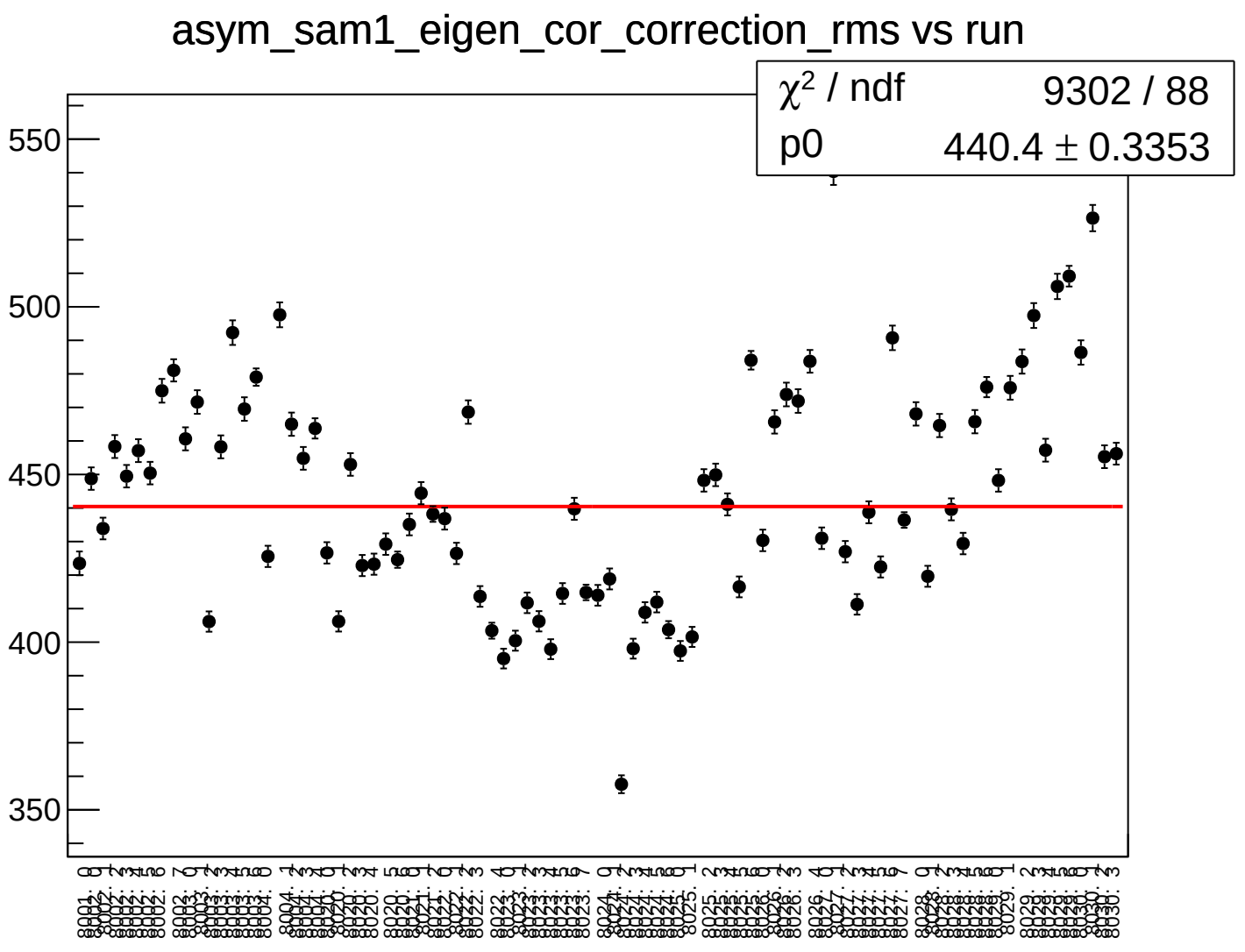

eigen_cor_asym_sam1_mean vs run
χ² / ndf 85.82 / 88
p0 129.3 ± 71.97
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean −135.4
Std Dev 0
2
1
0
−1
−2
−3

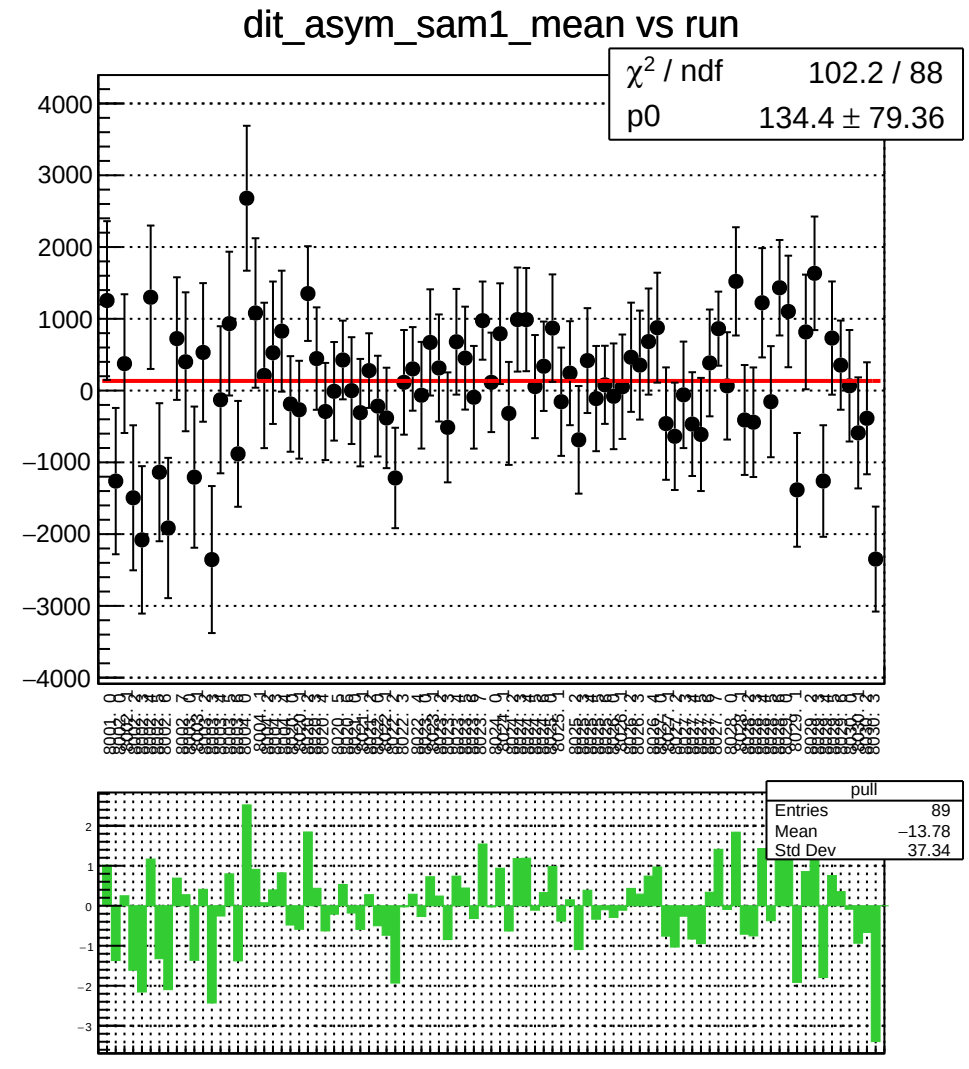

pull1D
Entries 89
Mean −0.01466
Std Dev 0.9818
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

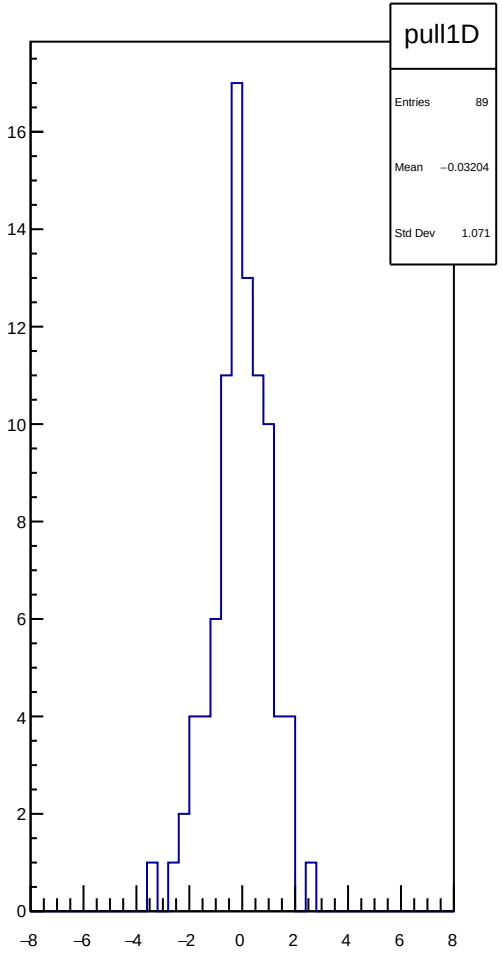

eigen_cor_asym_sam1_rms vs run
χ² / ndf 1996 / 88
p0 66.99 ± 0.05089
72
70
68
66
64
62

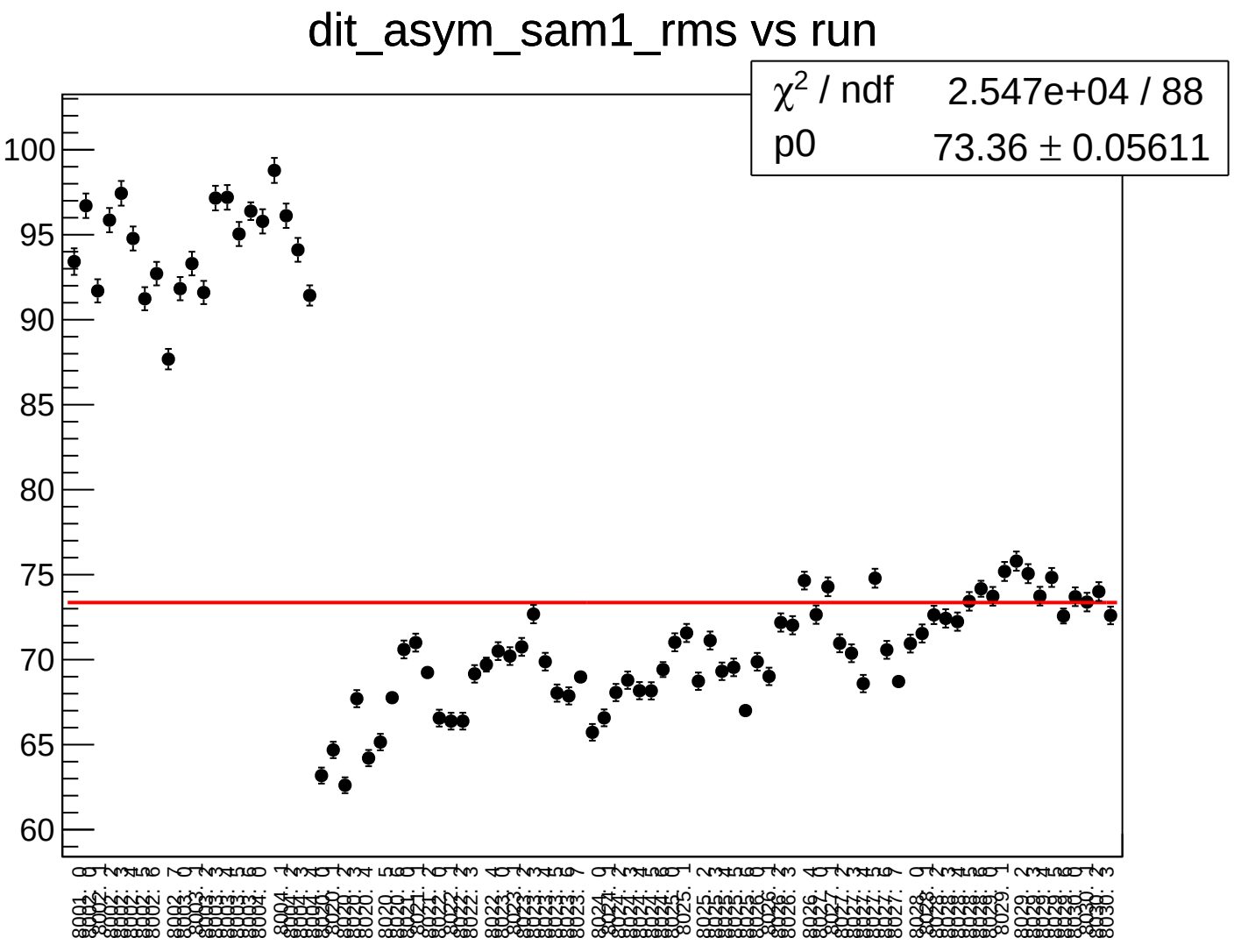

asym_sam1_eigen_cor_correction_mean vs run
χ² / ndf 88.15 / 88
p0 −56.77 ± 474.2
pull
Entries 89
Mean 99.39
Std Dev 0

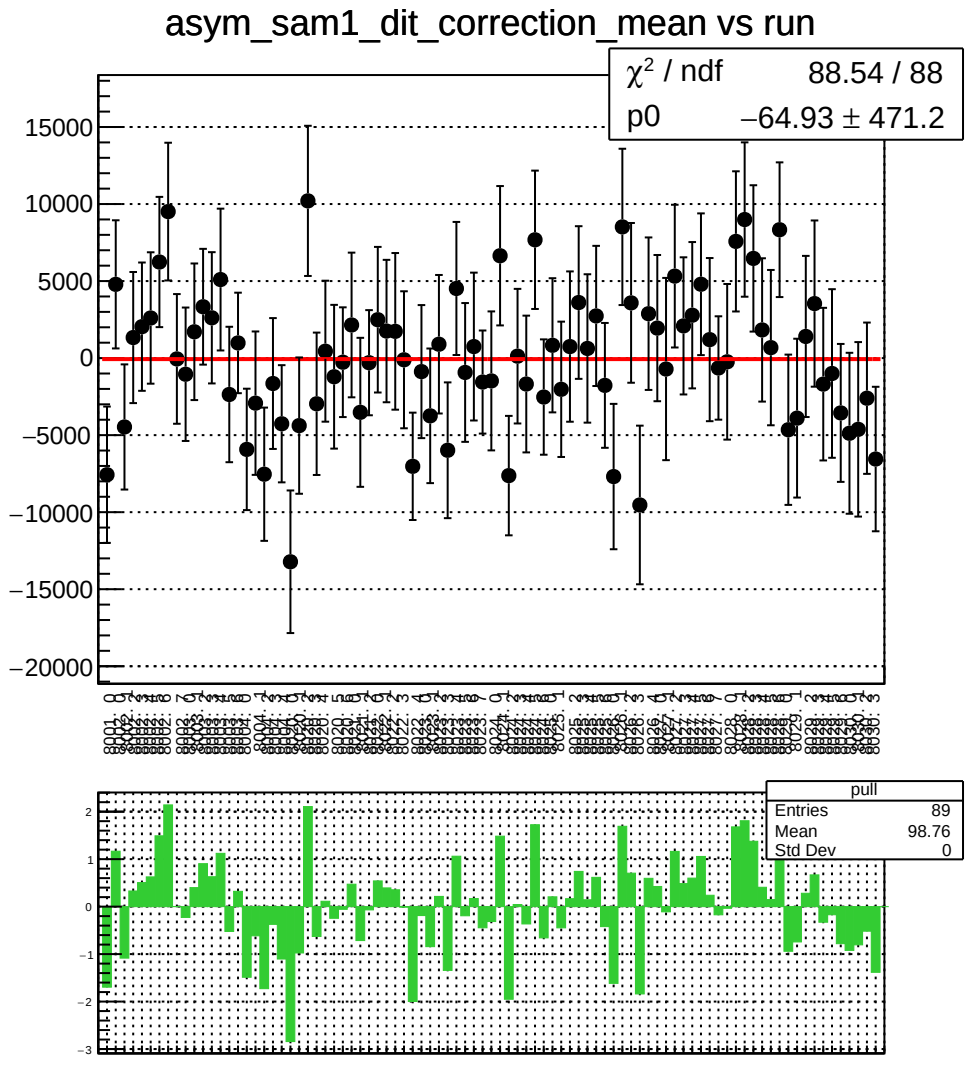

pull1D
Entries 89
Mean 0.01933
Std Dev 0.995

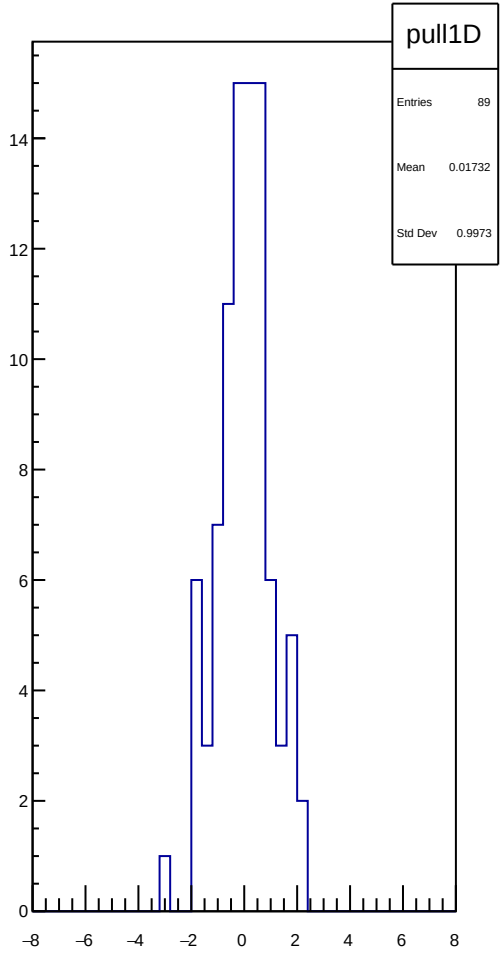

asym_sam1_eigen_cor_correction_rms vs run
χ^2 / ndf 9302 / 88
p0 440.4 ± 0.3353
550
500
450
400
350

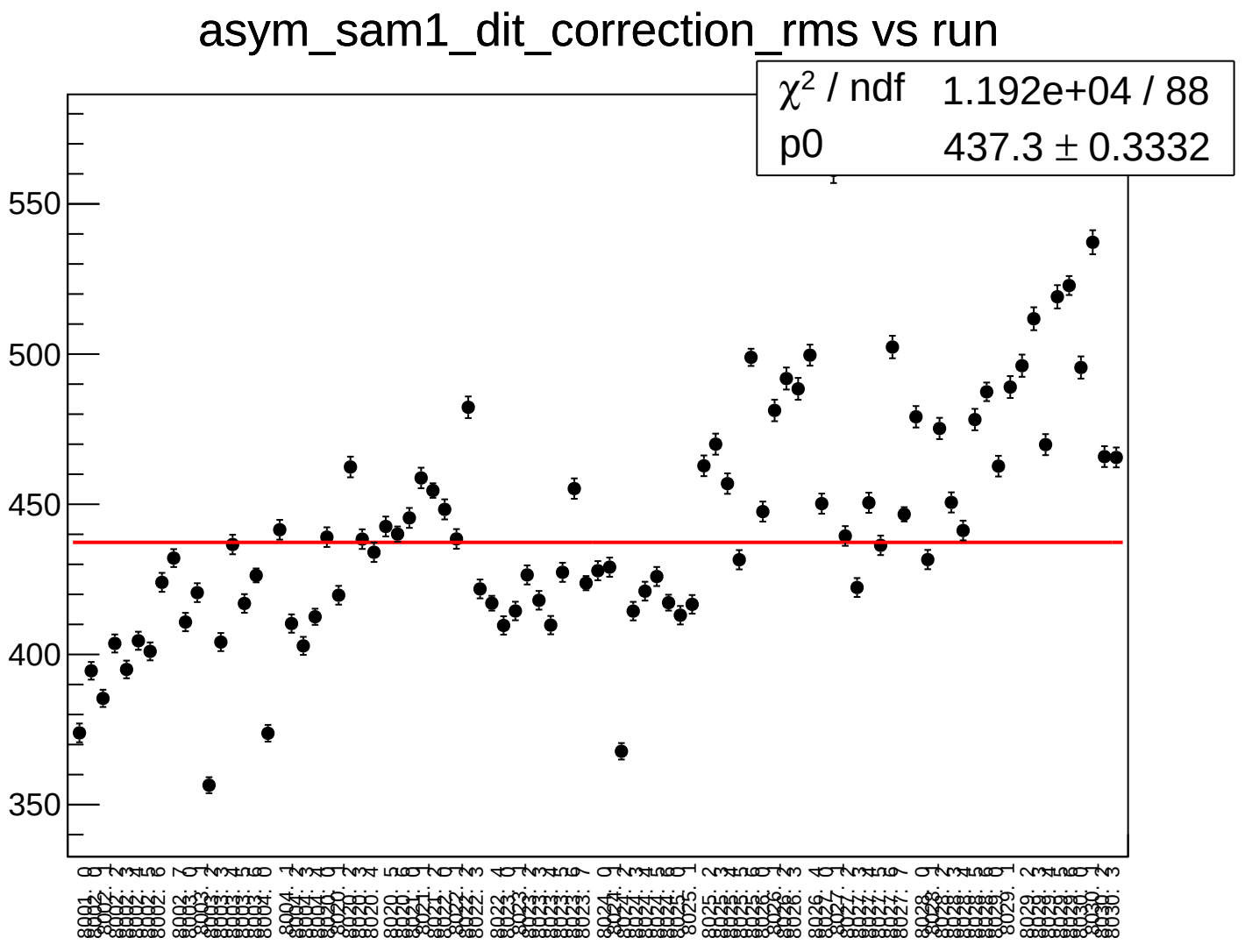

dit_asym_sam1_mean vs run
χ² / ndf 102.2 / 88
p0 134.4 ± 79.36
pull
Entries 89
Mean −13.78
Std Dev 37.34

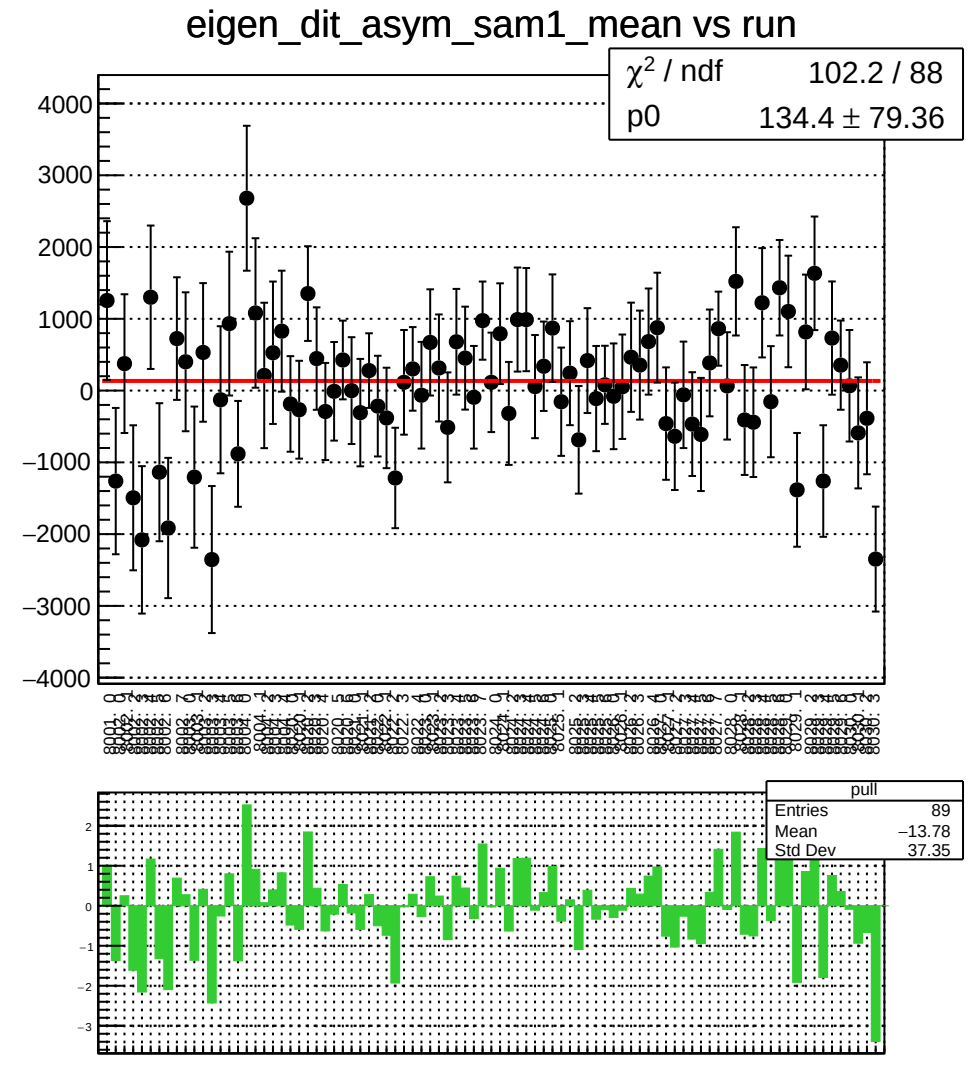

pull1D
Entries 89
Mean −0.03204
Std Dev 1.071

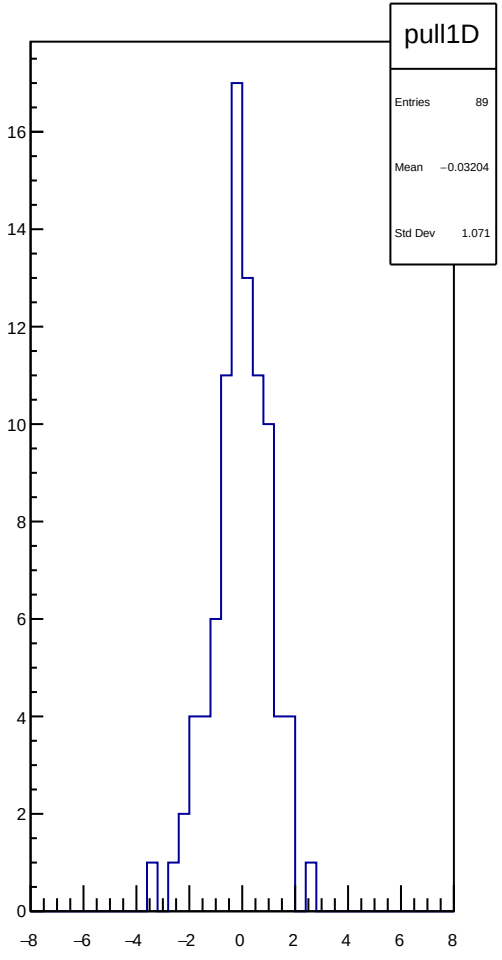

dit_asym_sam1_rms vs run
χ^2 / ndf 2.547e+04 / 88
p0 73.36 ± 0.05611
100
95
90
85
80
75
70
65
60

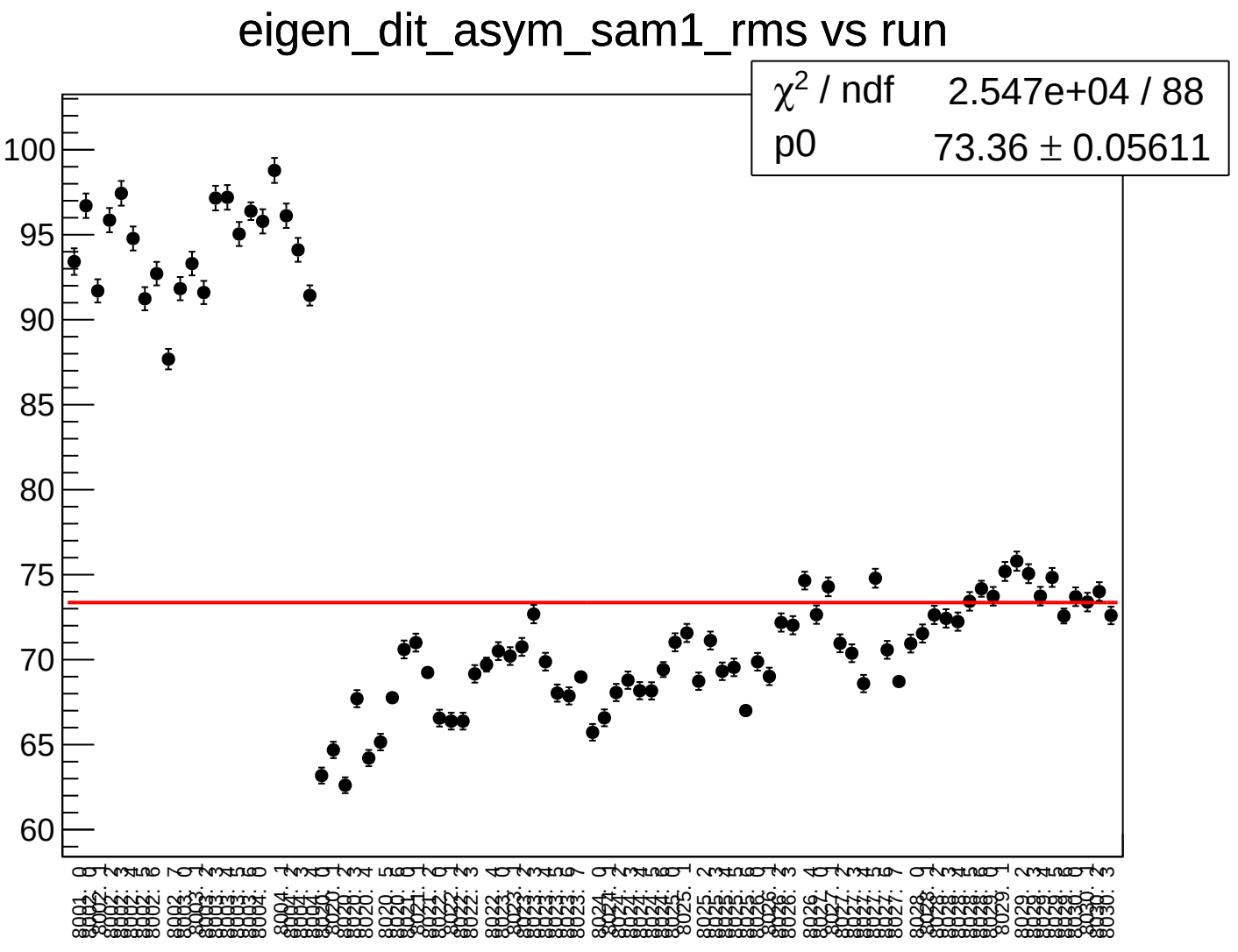

asym_sam1_dit_correction_mean vs run
χ² / ndf 88.54 / 88
p0 −64.93 ± 471.2
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 89
Mean 98.76
Std Dev 0
2
1
0
−1
−2
−3

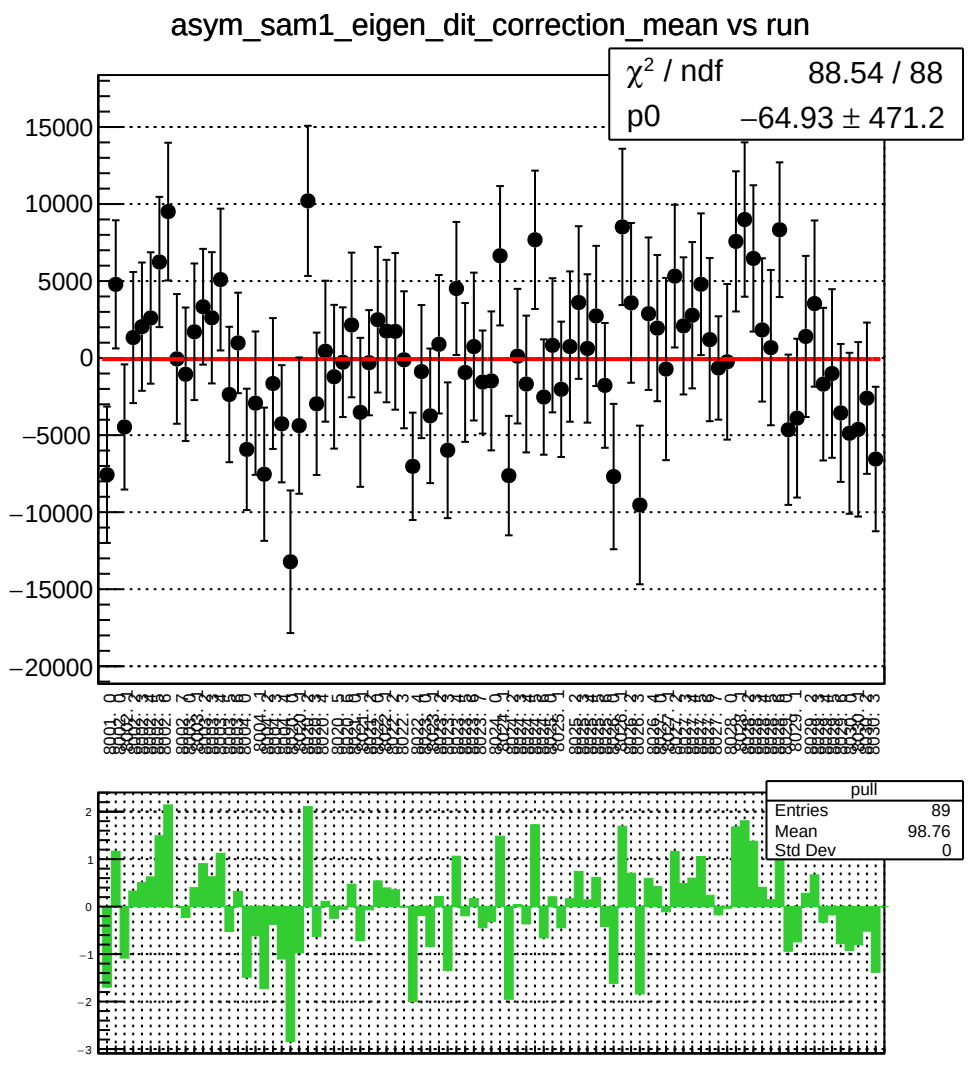

pull1D
Entries 89
Mean 0.01732
Std Dev 0.9973
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

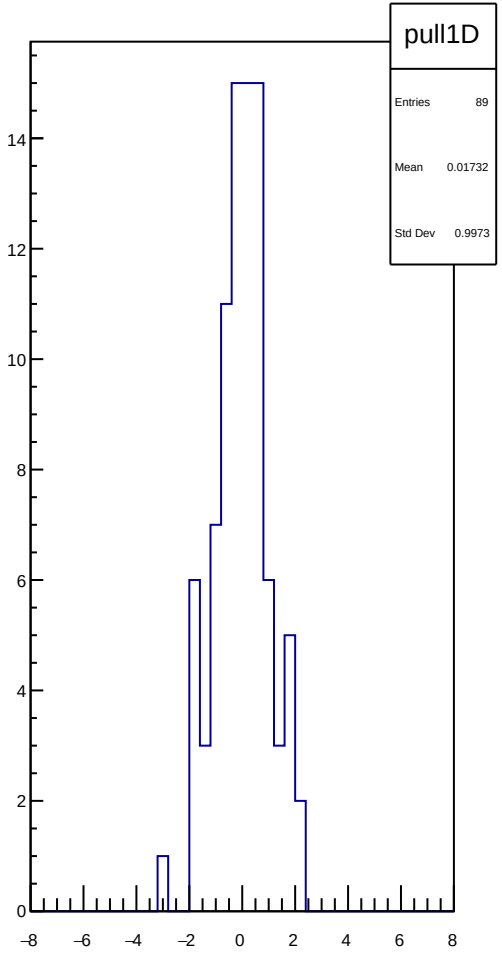

asym_sam1_dit_correction_rms vs run
χ² / ndf 1.192e+04 / 88
p0 437.3 ± 0.3332
550
500
450
400
350

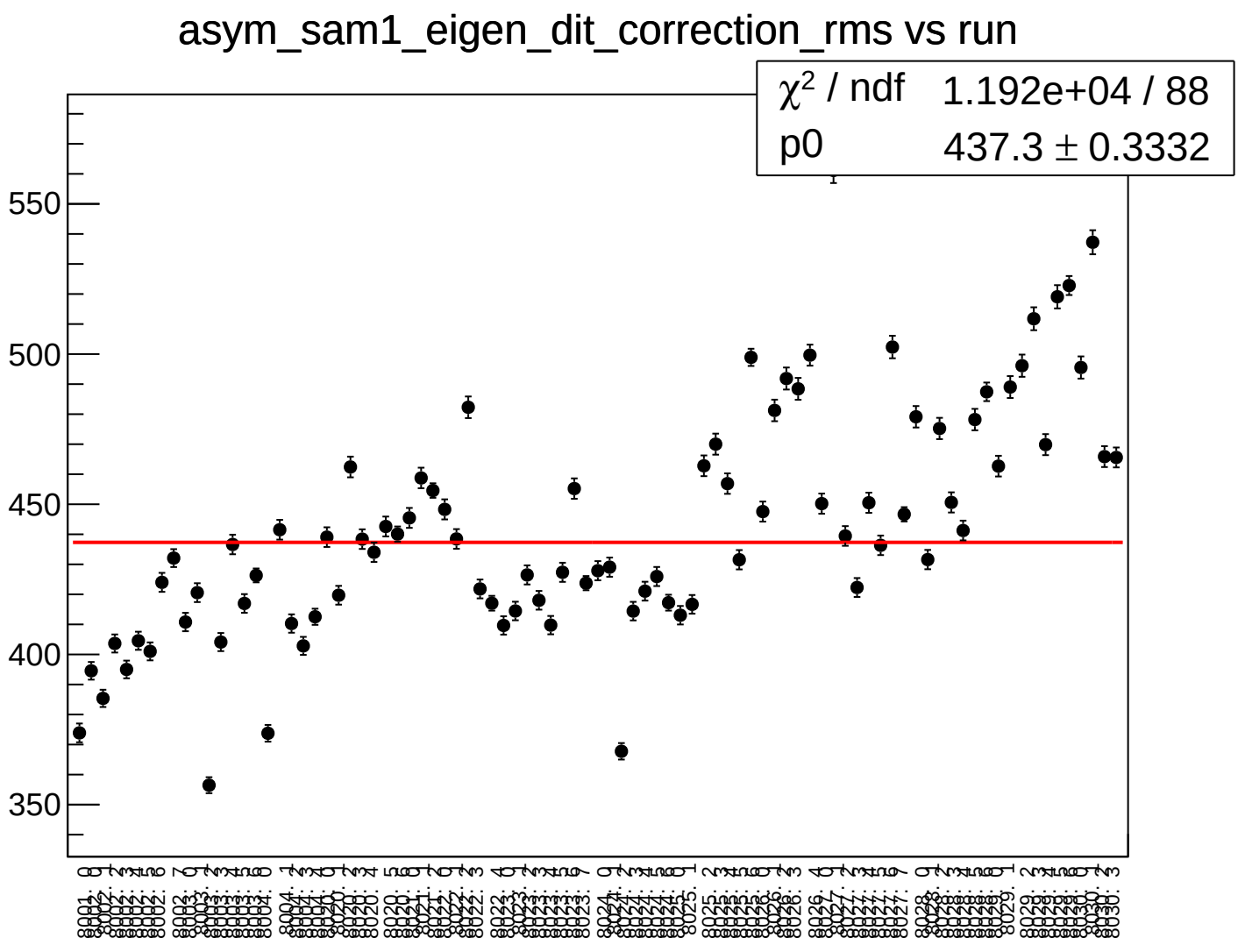

eigen_dit_asym_sam1_mean vs run
χ² / ndf 102.2 / 88
p0 134.4 ± 79.36
pull
Entries 89
Mean −13.78
Std Dev 37.35

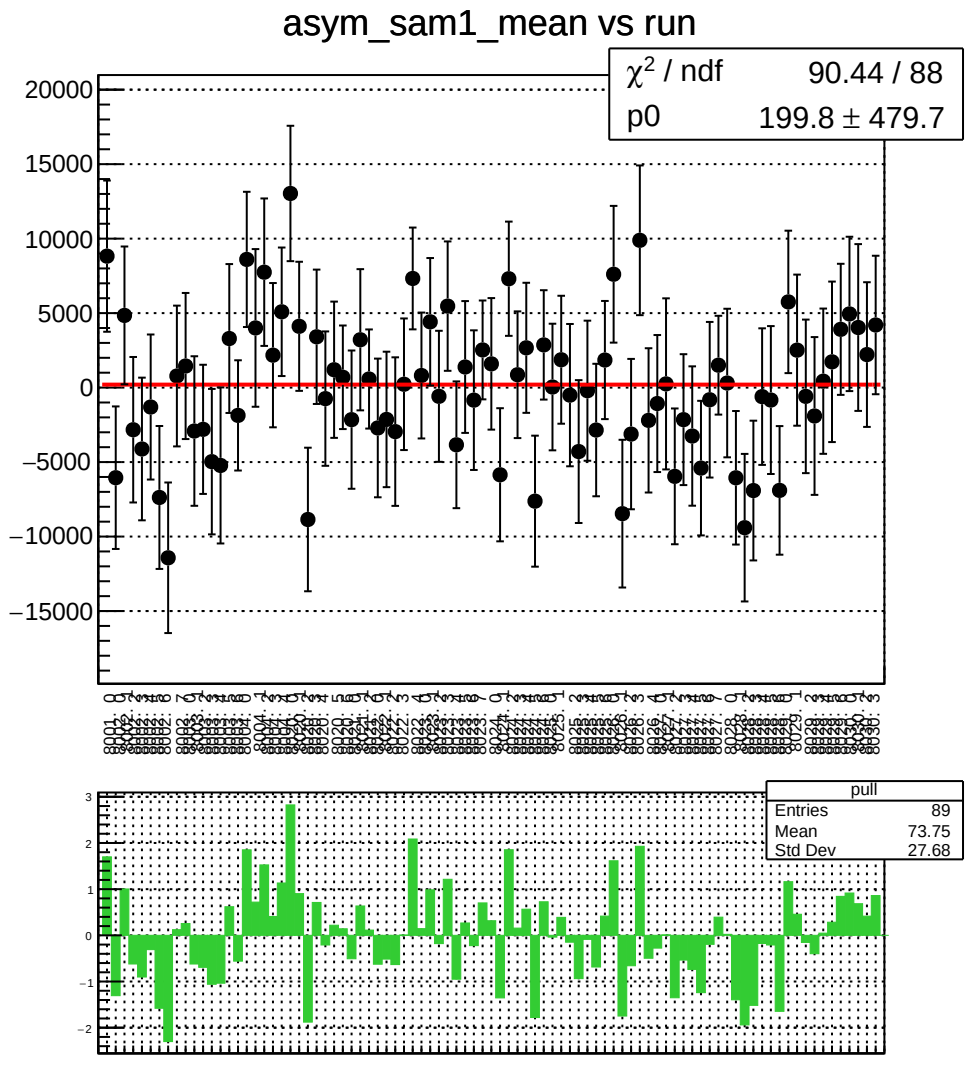

pull1D
Entries 89
Mean −0.03204
Std Dev 1.071

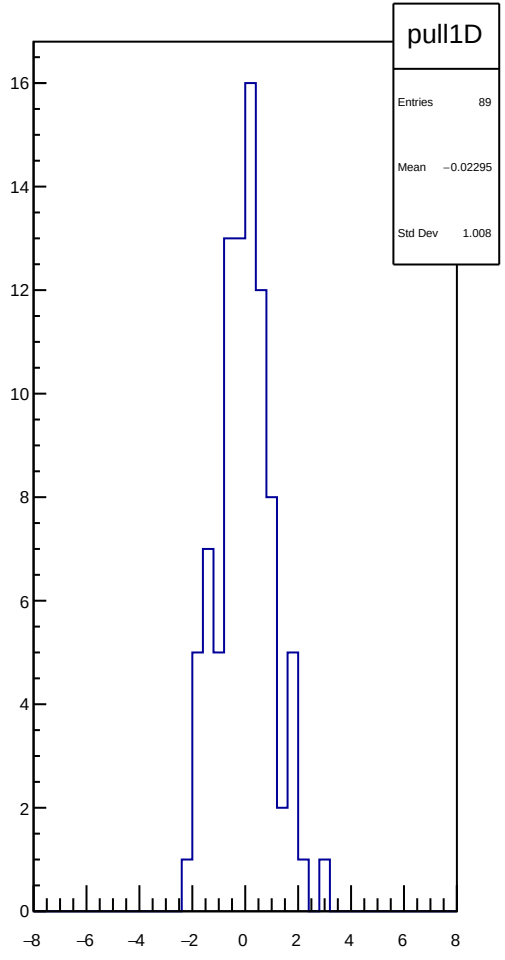

eigen_dit_asym_sam1_rms vs run
χ^2 / ndf 2.547e+04 / 88
p0 73.36 ± 0.05611
100
95
90
85
80
75
70
65
60

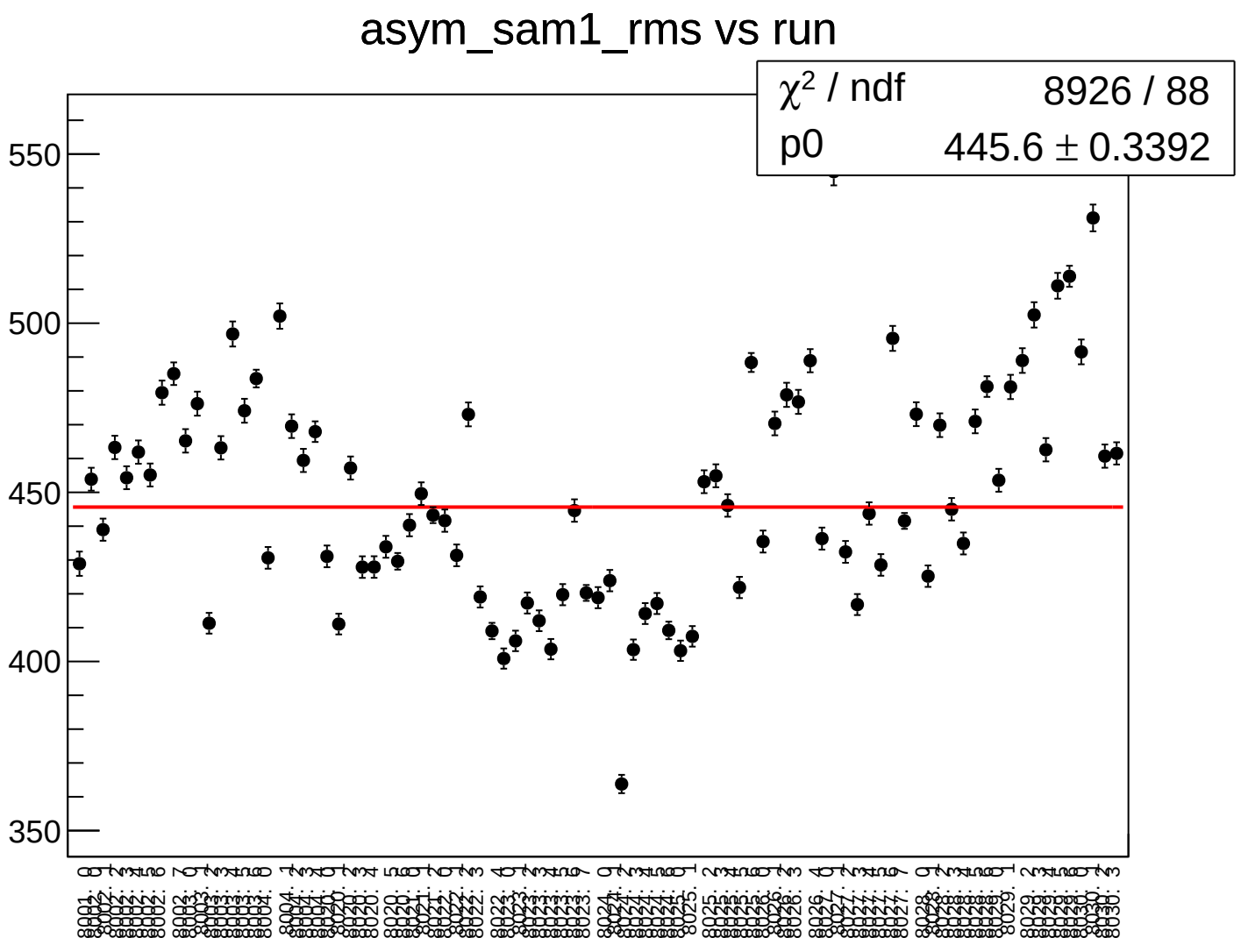

asym_sam1_eigen_dit_correction_mean vs run
χ² / ndf 88.54 / 88
p0 −64.93 ± 471.2
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 89
Mean 98.76
Std Dev 0
2
1
0
−1
−2
−3

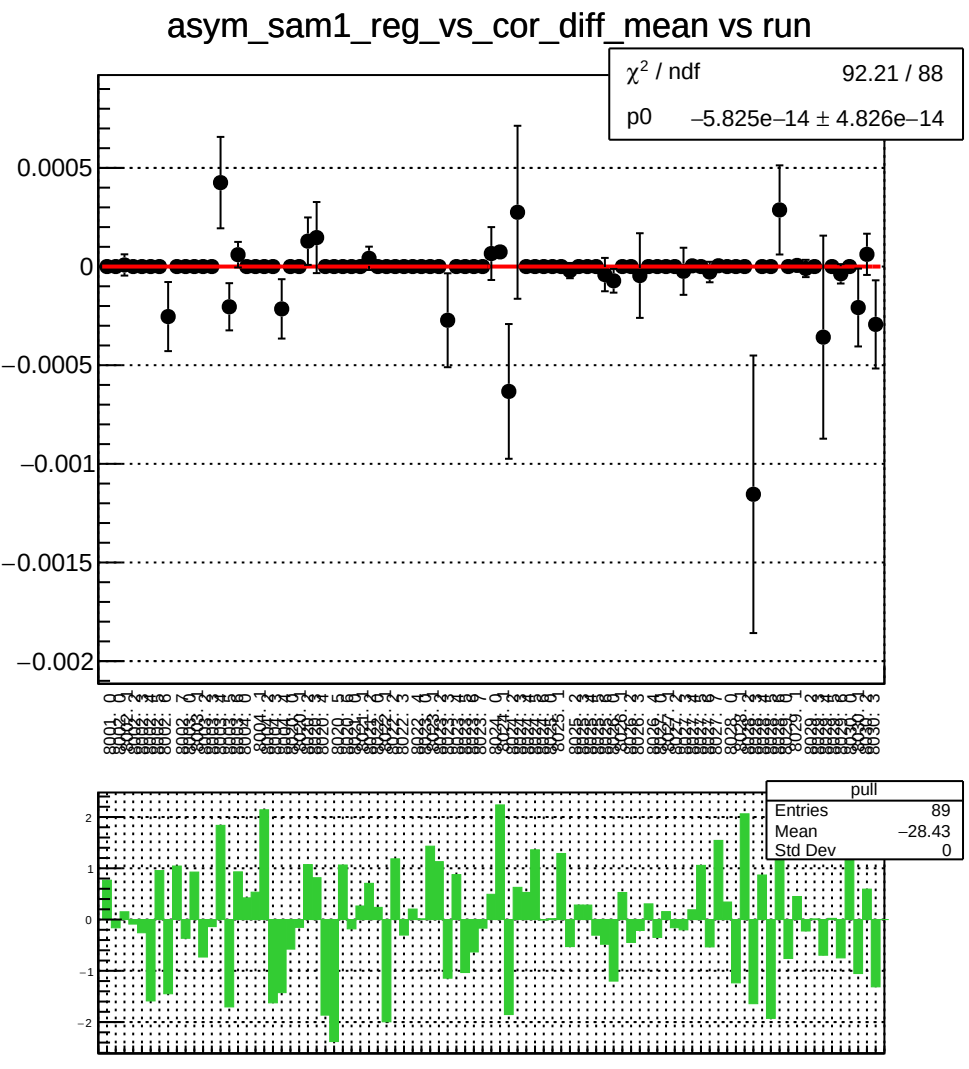

pull1D
Entries 89
Mean 0.01732
Std Dev 0.9973
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

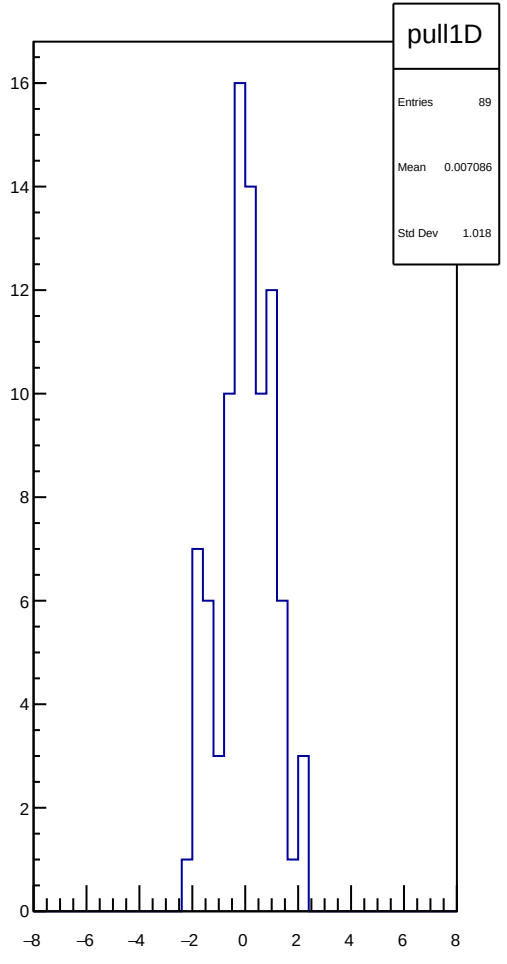

asym_sam1_eigen_dit_correction_rms vs run
χ² / ndf 1.192e+04 / 88
p0 437.3 ± 0.3332
550
500
450
400
350

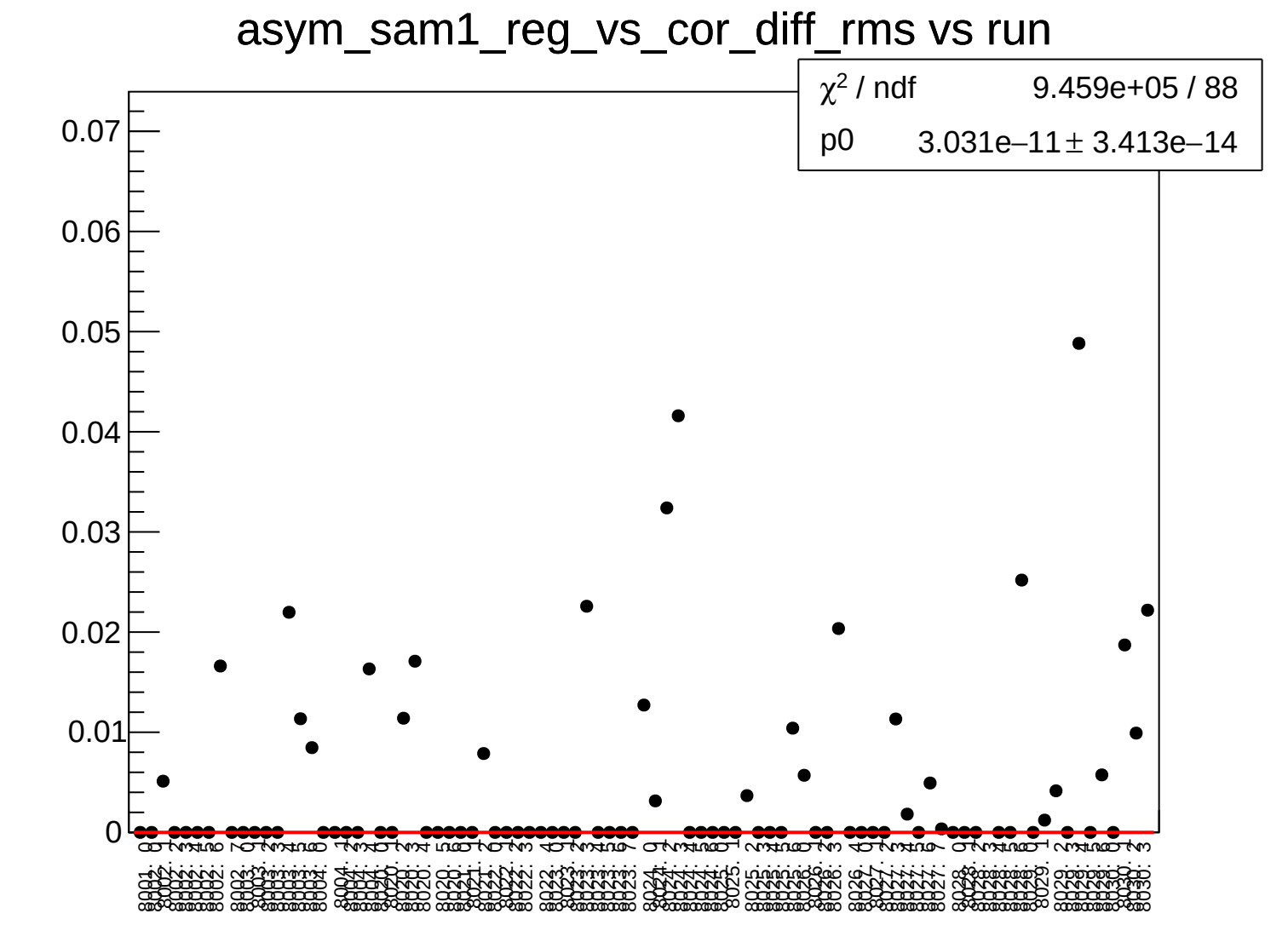

asym_sam1_mean vs run
χ² / ndf 90.44 / 88
p0 199.8 ± 479.7
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 73.75
Std Dev 27.68
3
2
1
0
−1
−2

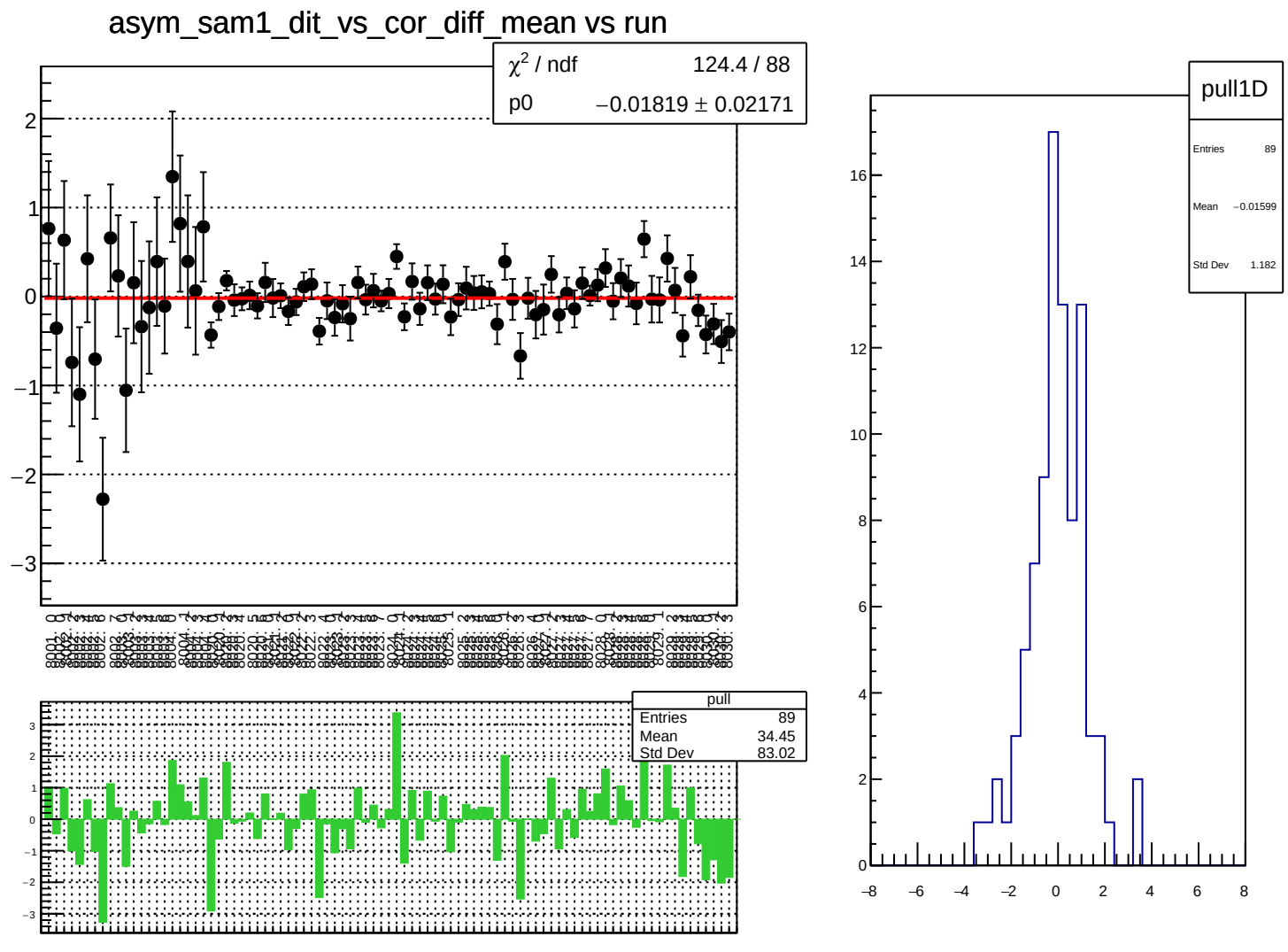

pull1D
Entries 89
Mean −0.02295
Std Dev 1.008
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

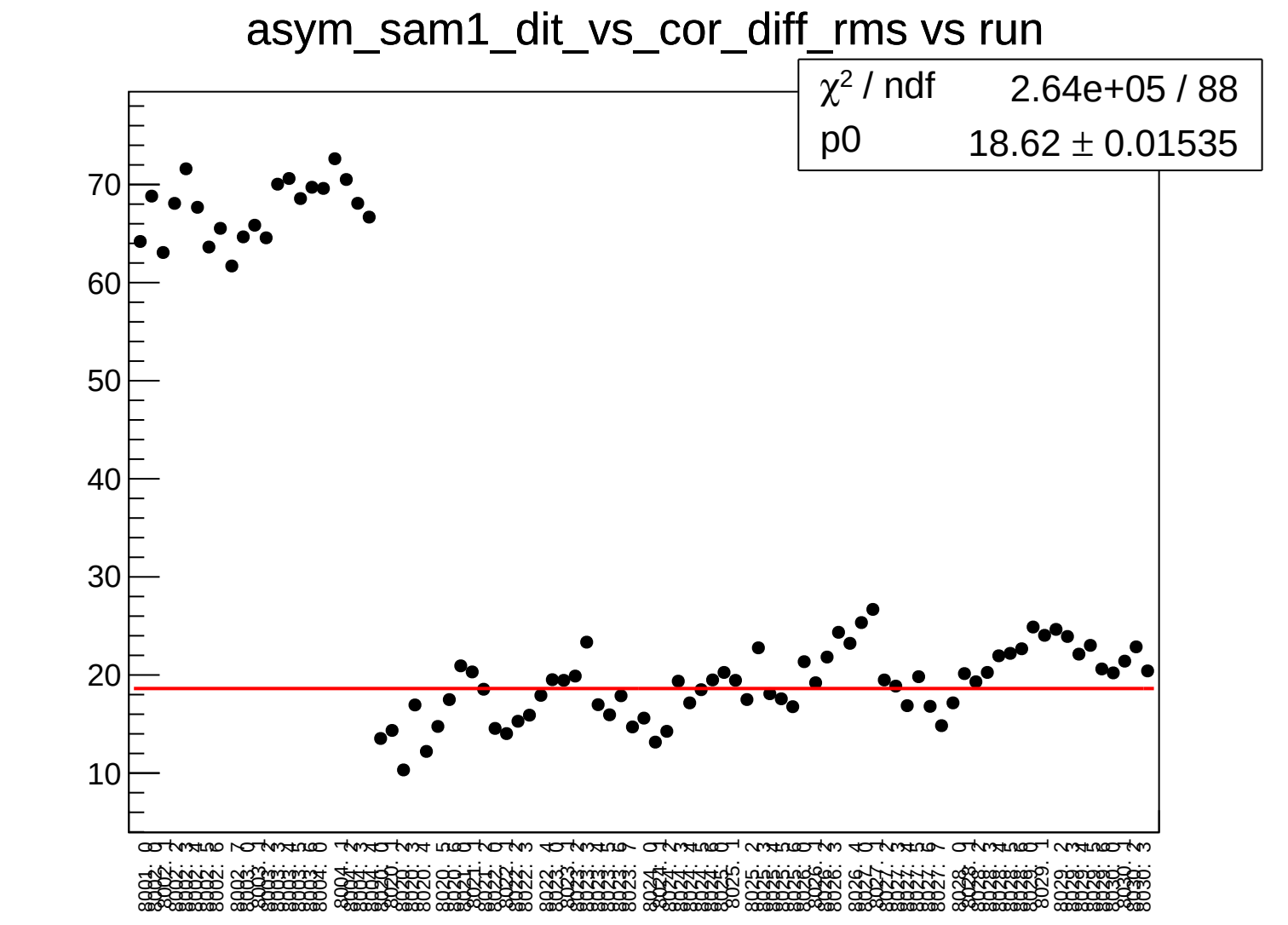

asym_sam1_rms vs run
χ² / ndf 8926 / 88
p0 445.6 ± 0.3392
550
500
450
400
350

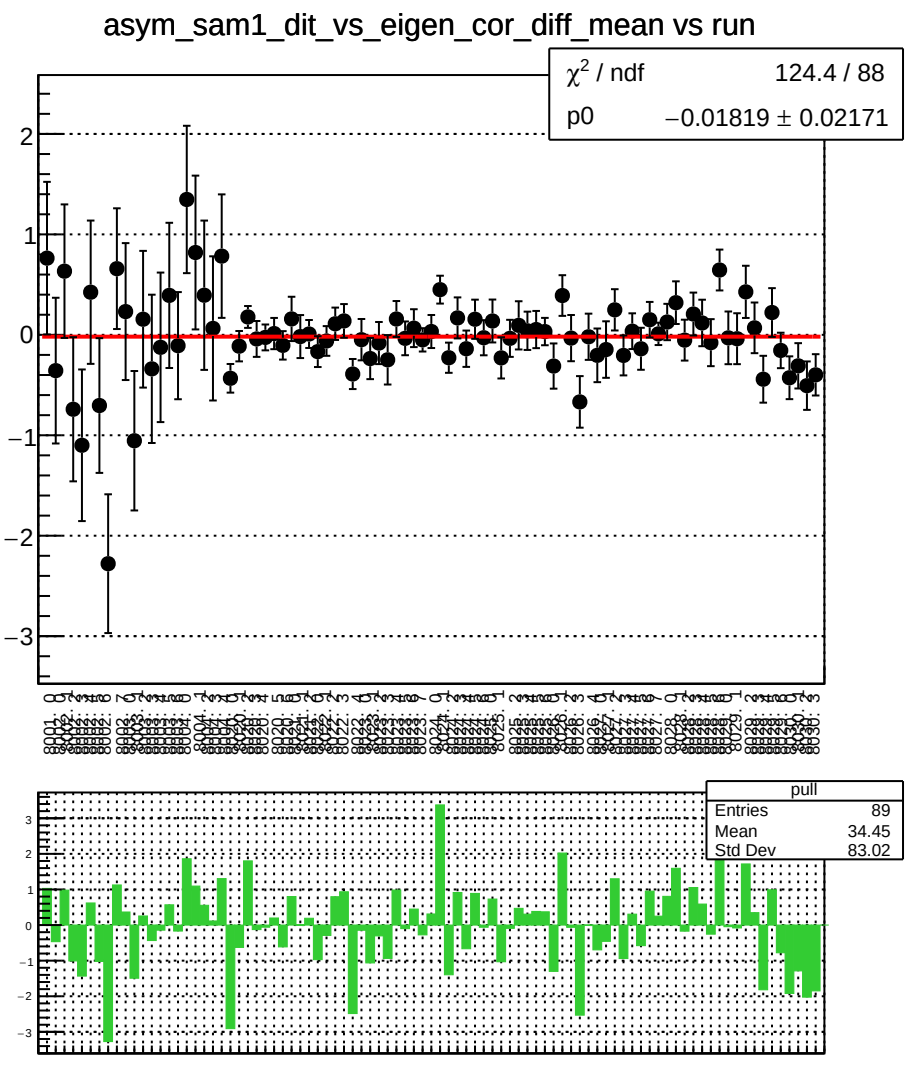

asym_sam1_reg_vs_cor_diff_mean vs run
χ² / ndf 92.21 / 88
p0 −5.825e−14 ± 4.826e−14
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 89
Mean −28.43
Std Dev 0
2
1
0
−1
−2

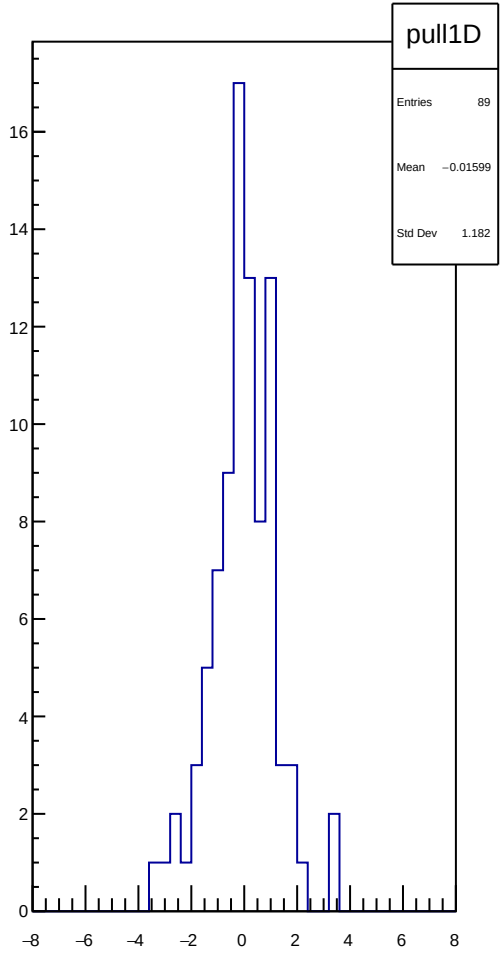

pull1D
Entries 89
Mean 0.007086
Std Dev 1.018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

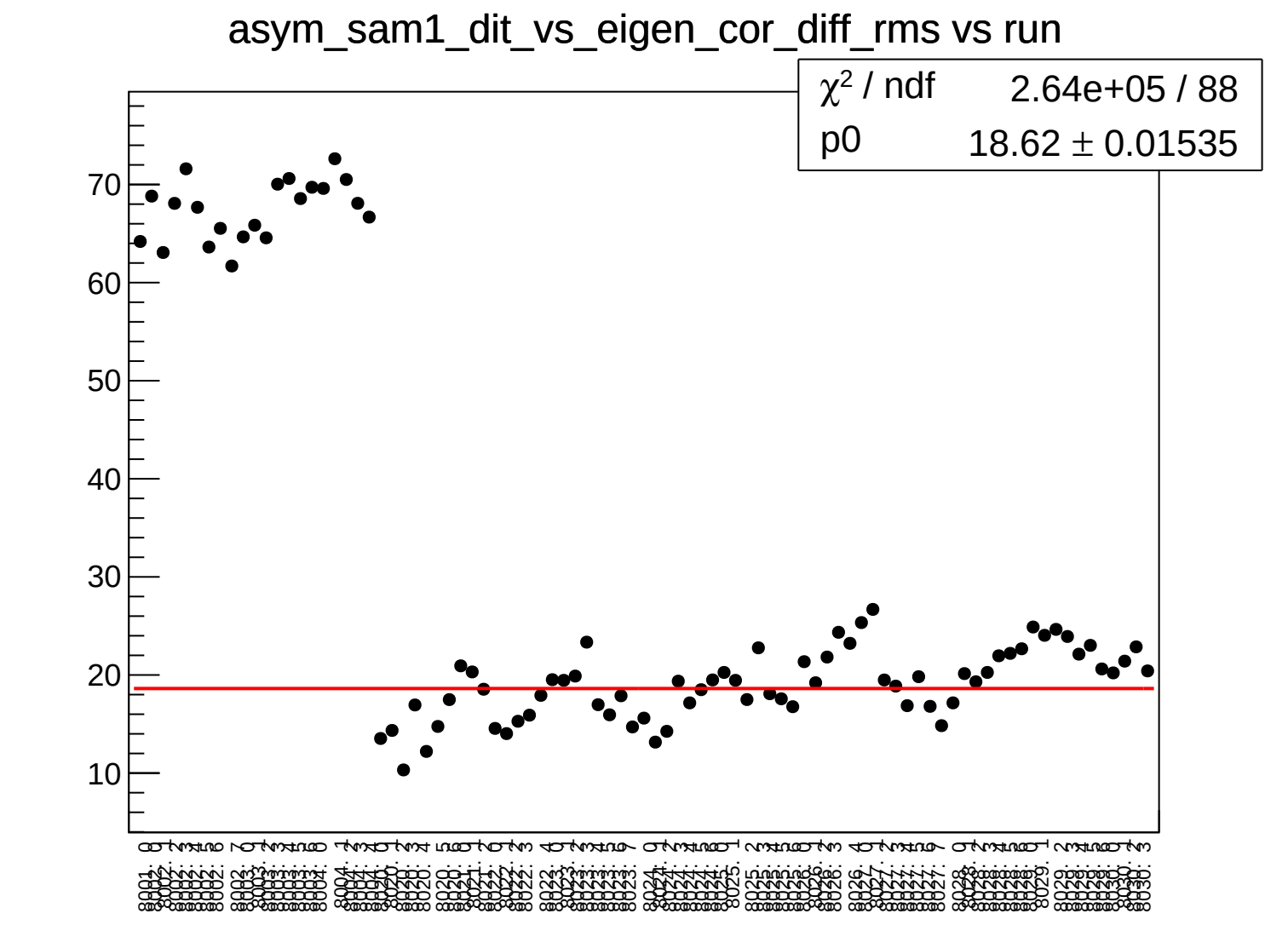

asym_sam1_reg_vs_cor_diff_rms vs run
χ² / ndf 9.459e+05 / 88
p0 3.031e−11 ± 3.413e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

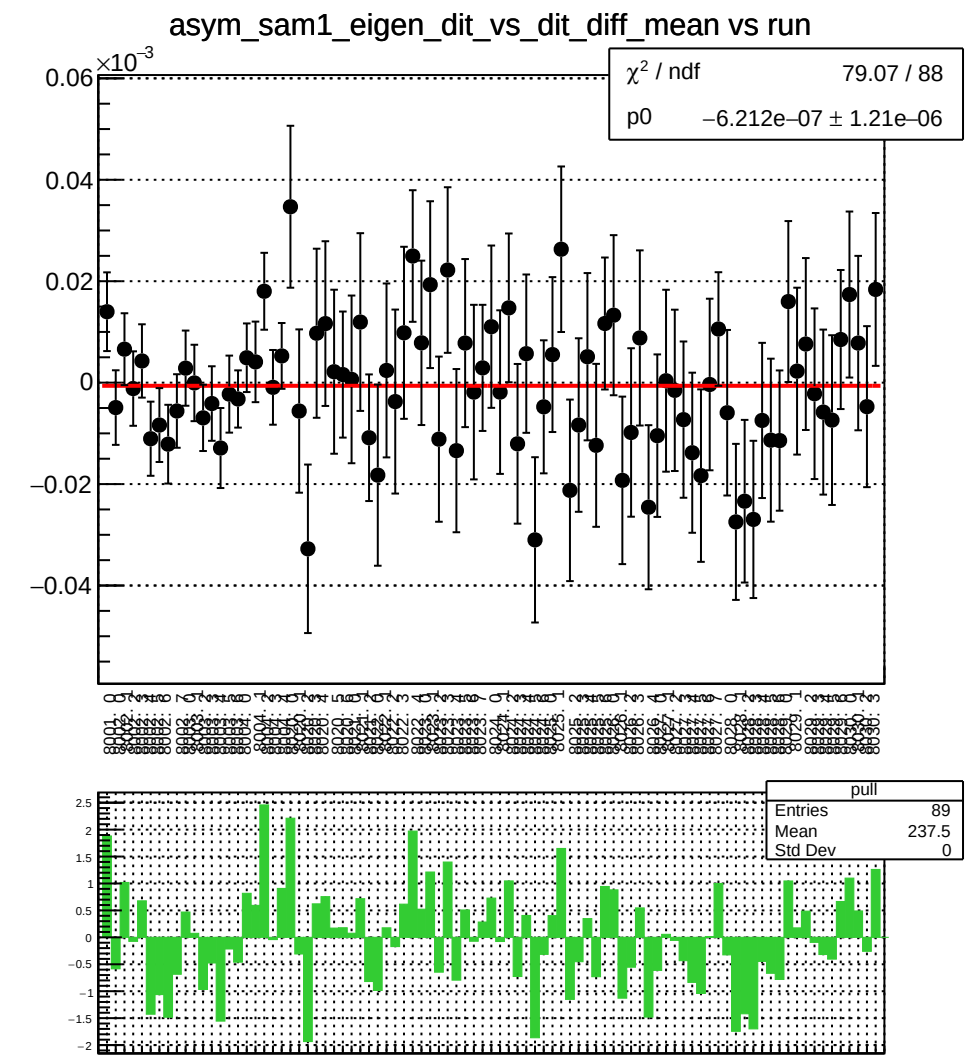

asym_sam1_dit_vs_cor_diff_mean vs run
χ² / ndf 124.4 / 88
p0 −0.01819 ± 0.02171
pull
Entries 89
Mean 34.45
Std Dev 83.02
pull1D
Entries 89
Mean −0.01599
Std Dev 1.182

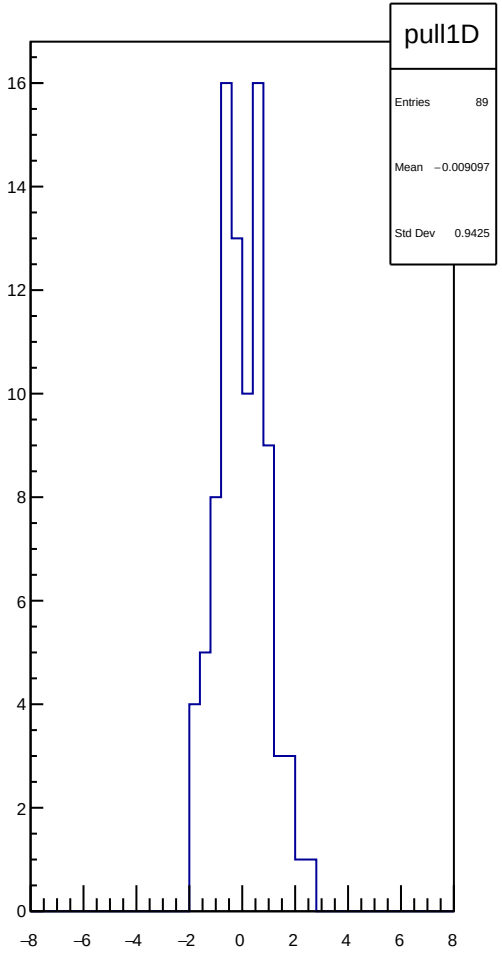

asym_sam1_dit_vs_cor_diff_rms vs run
χ² / ndf 2.64e+05 / 88
p0 18.62 ± 0.01535
70
60
50
40
30
20
10

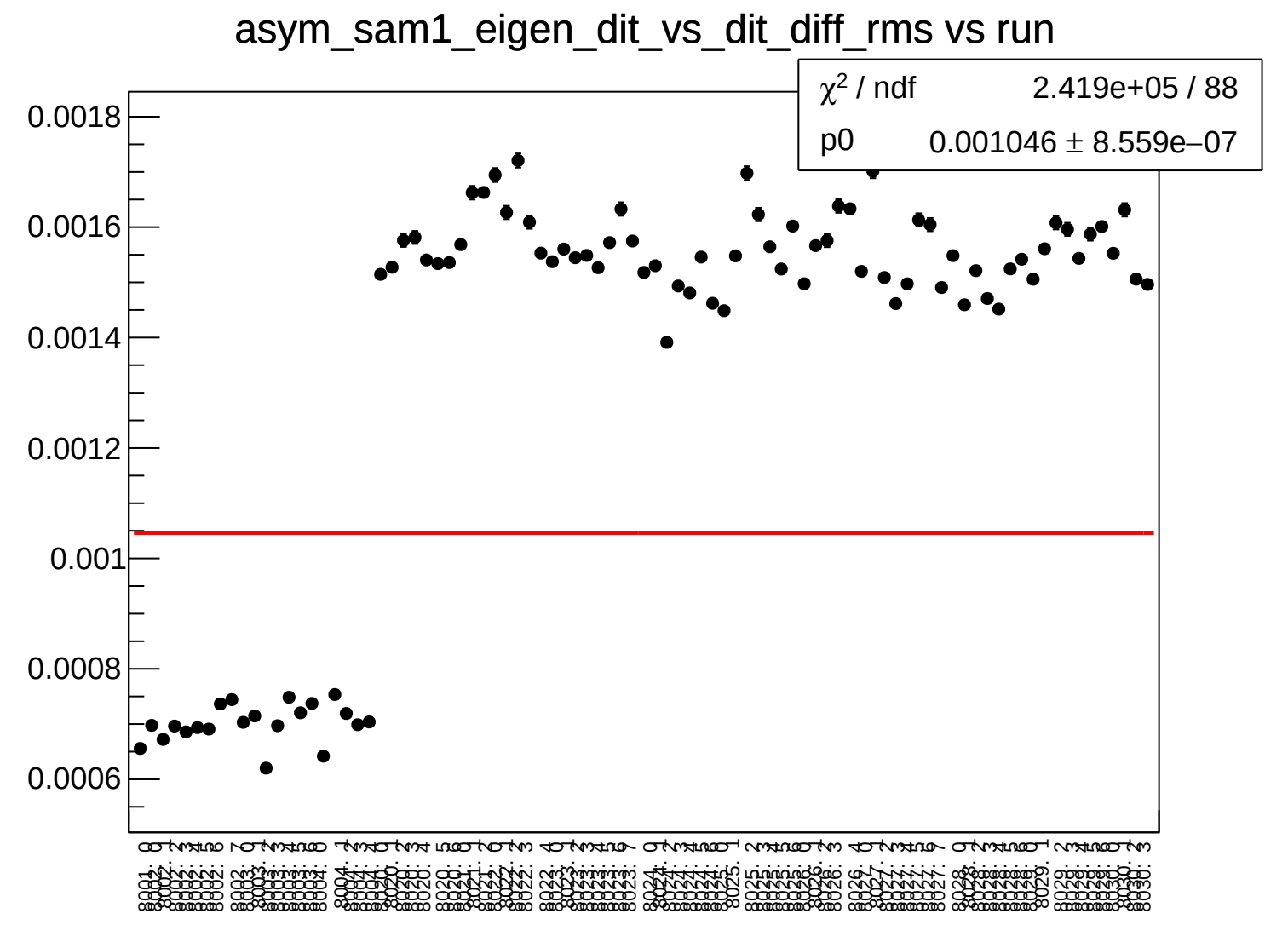

asym_sam1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 124.4 / 88
p0 −0.01819 ± 0.02171
pull
Entries 89
Mean 34.45
Std Dev 83.02

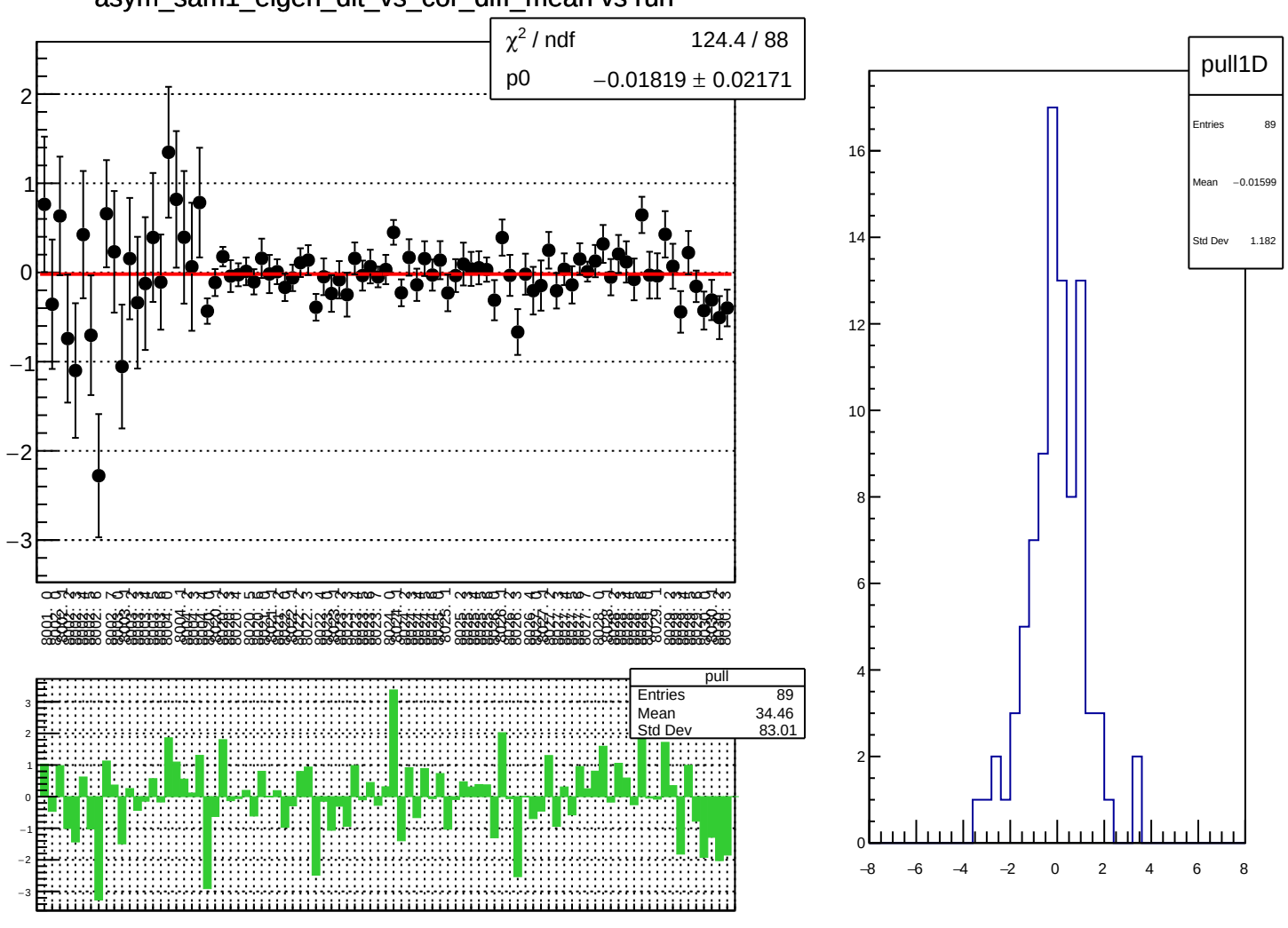

pull1D
Entries 89
Mean −0.01599
Std Dev 1.182

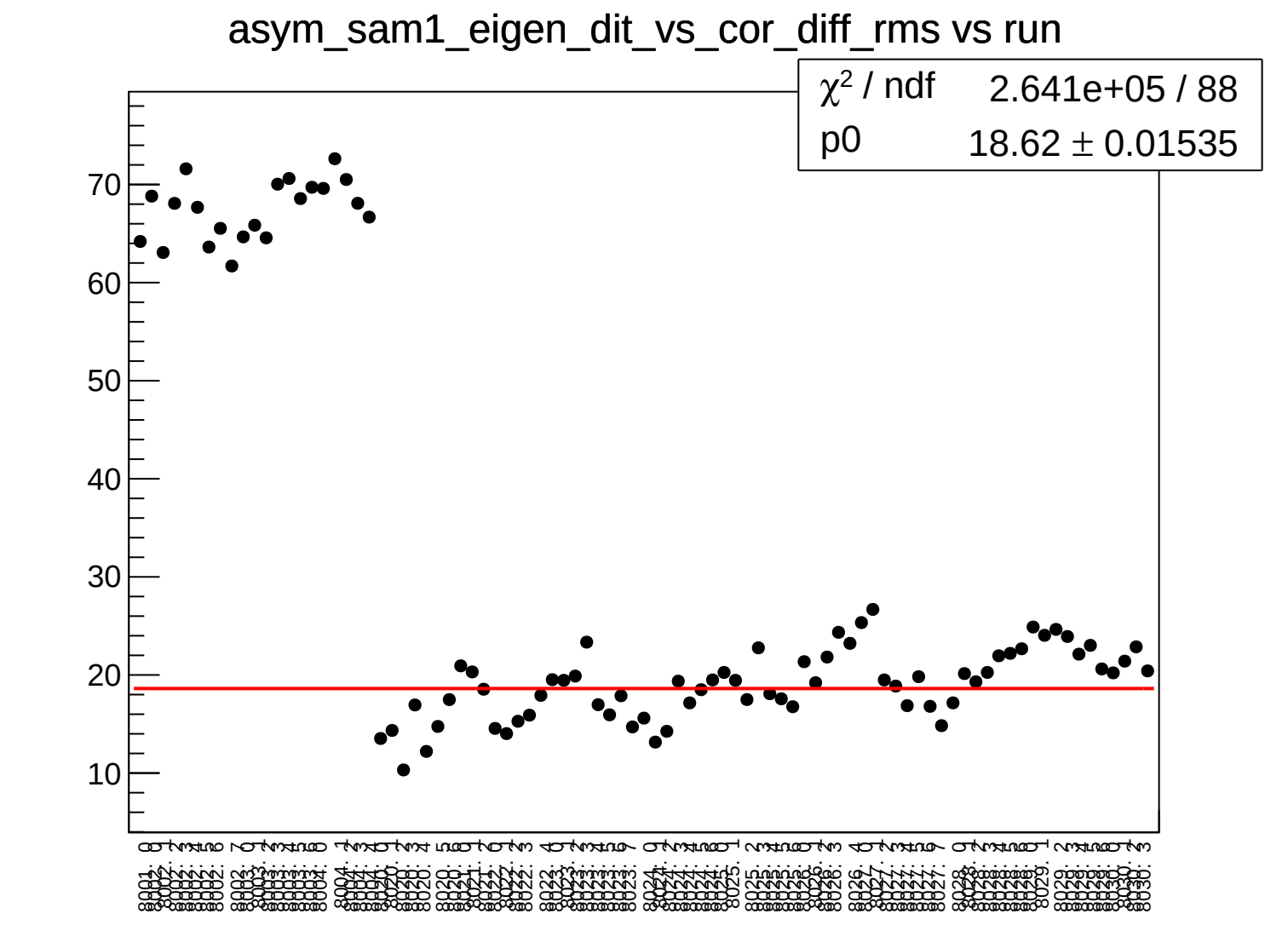

asym_sam1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.64e+05 / 88
p0 18.62 ± 0.01535
70
60
50
40
30
20
10

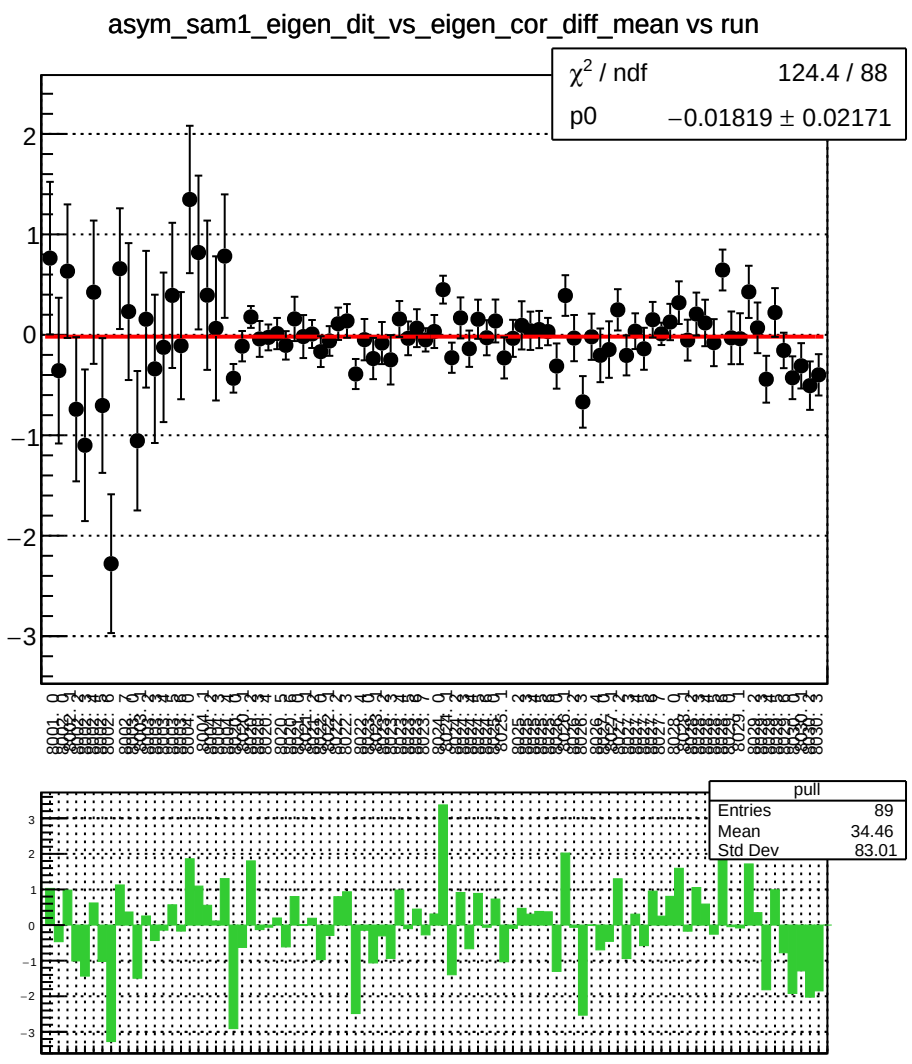

asym_sam1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 79.07 / 88
p0 −6.212e−07 ± 1.21e−06
pull
Entries 89
Mean 237.5
Std Dev 0

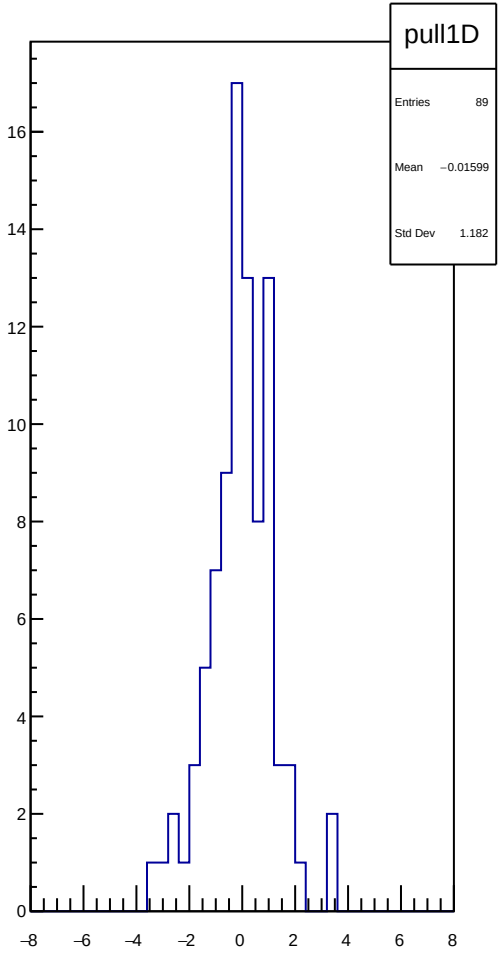

pull1D
Entries 89
Mean −0.009097
Std Dev 0.9425

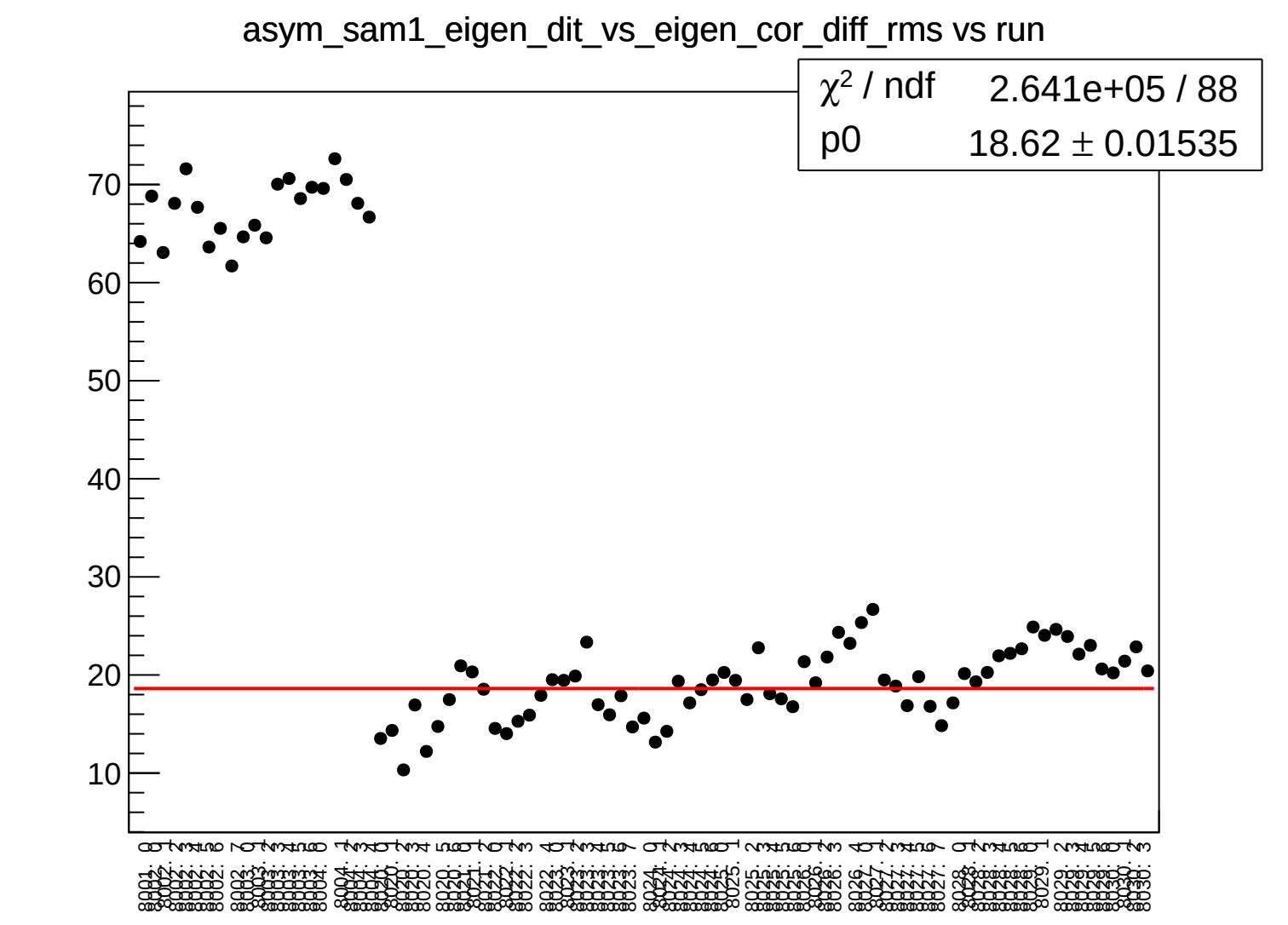

asym_sam1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.419e+05 / 88
p0 0.001046 ± 8.559e−07
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006

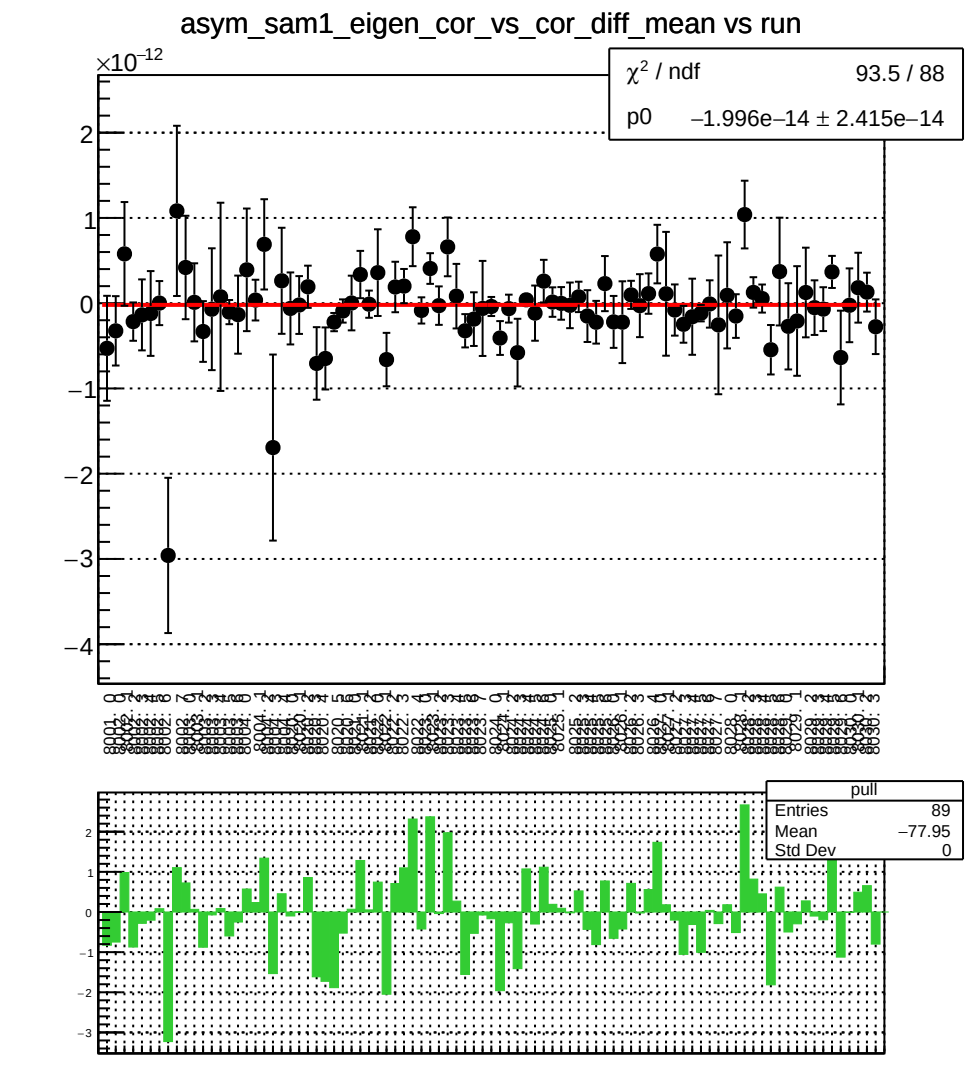

asym_sam1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 124.4 / 88
p0 −0.01819 ± 0.02171
pull
Entries 89
Mean 34.46
Std Dev 83.01
pull1D
Entries 89
Mean −0.01599
Std Dev 1.182

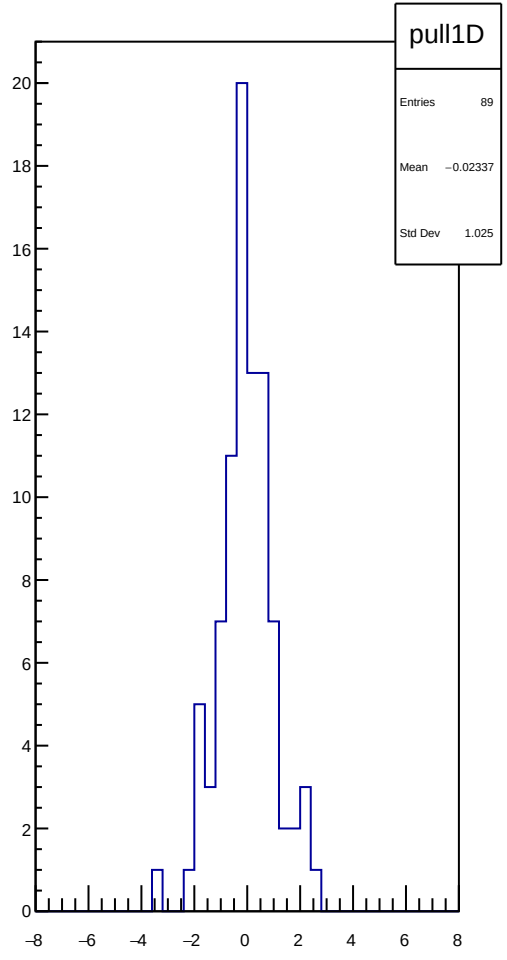

asym_sam1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.641e+05 / 88
p0 18.62 ± 0.01535
70
60
50
40
30
20
10

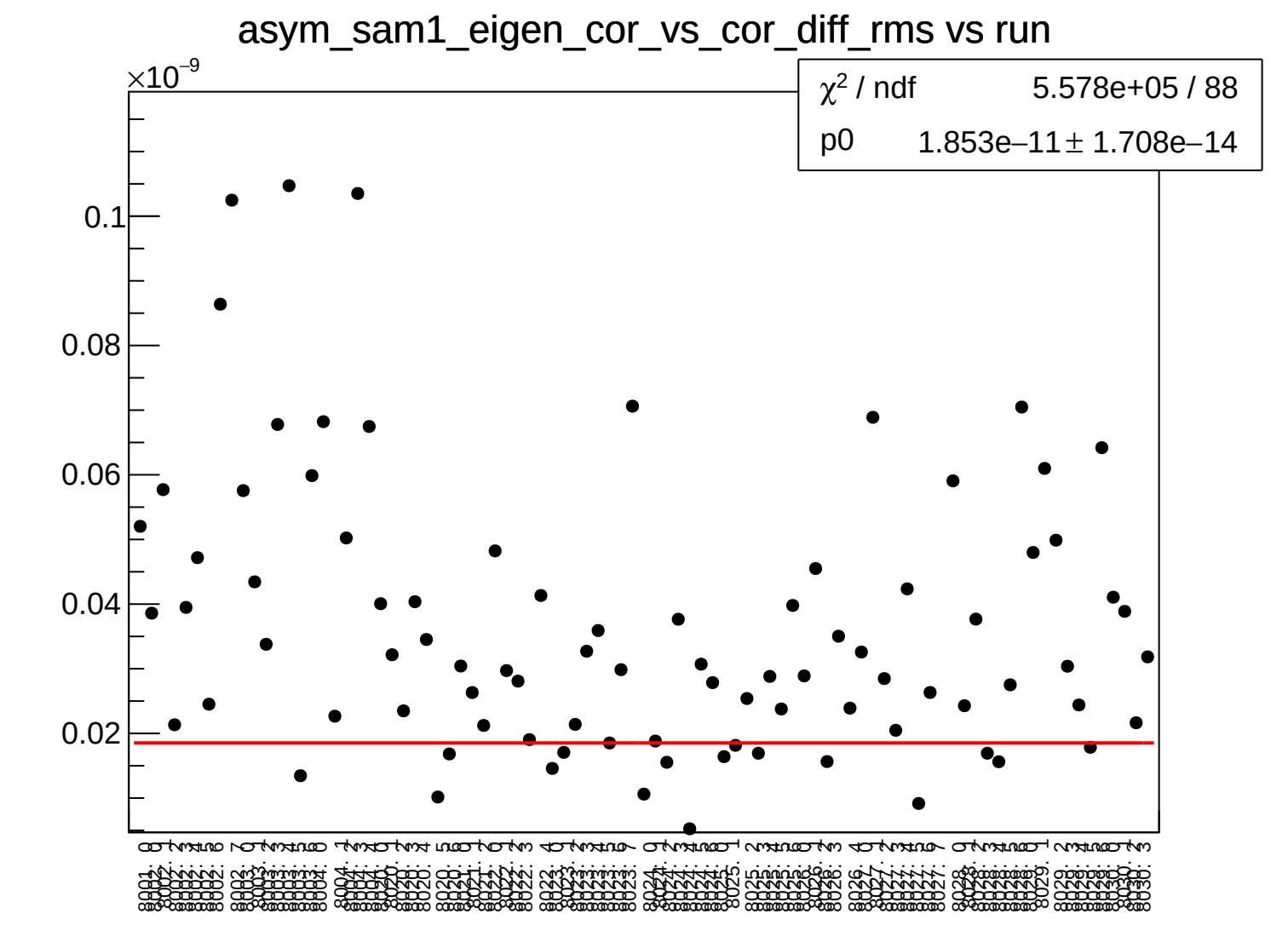

asym_sam1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 124.4 / 88
p0 −0.01819 ± 0.02171
pull
Entries 89
Mean 34.46
Std Dev 83.01

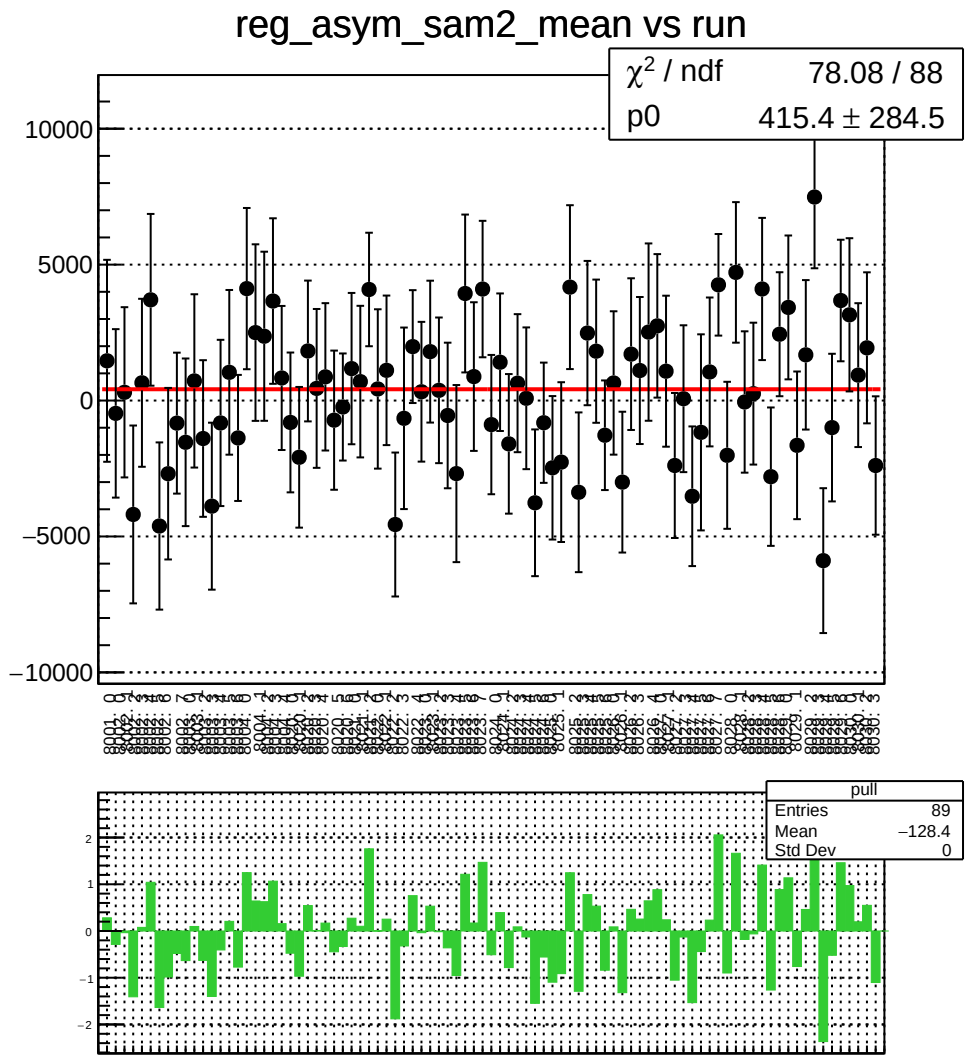

pull1D
Entries 89
Mean −0.01599
Std Dev 1.182

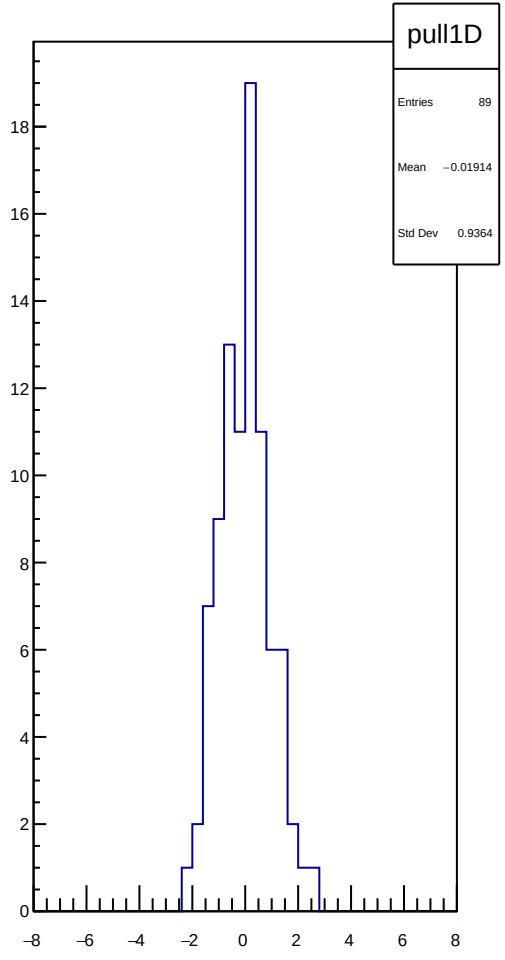

asym_sam1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.641e+05 / 88
p0 18.62 ± 0.01535
70
60
50
40
30
20
10

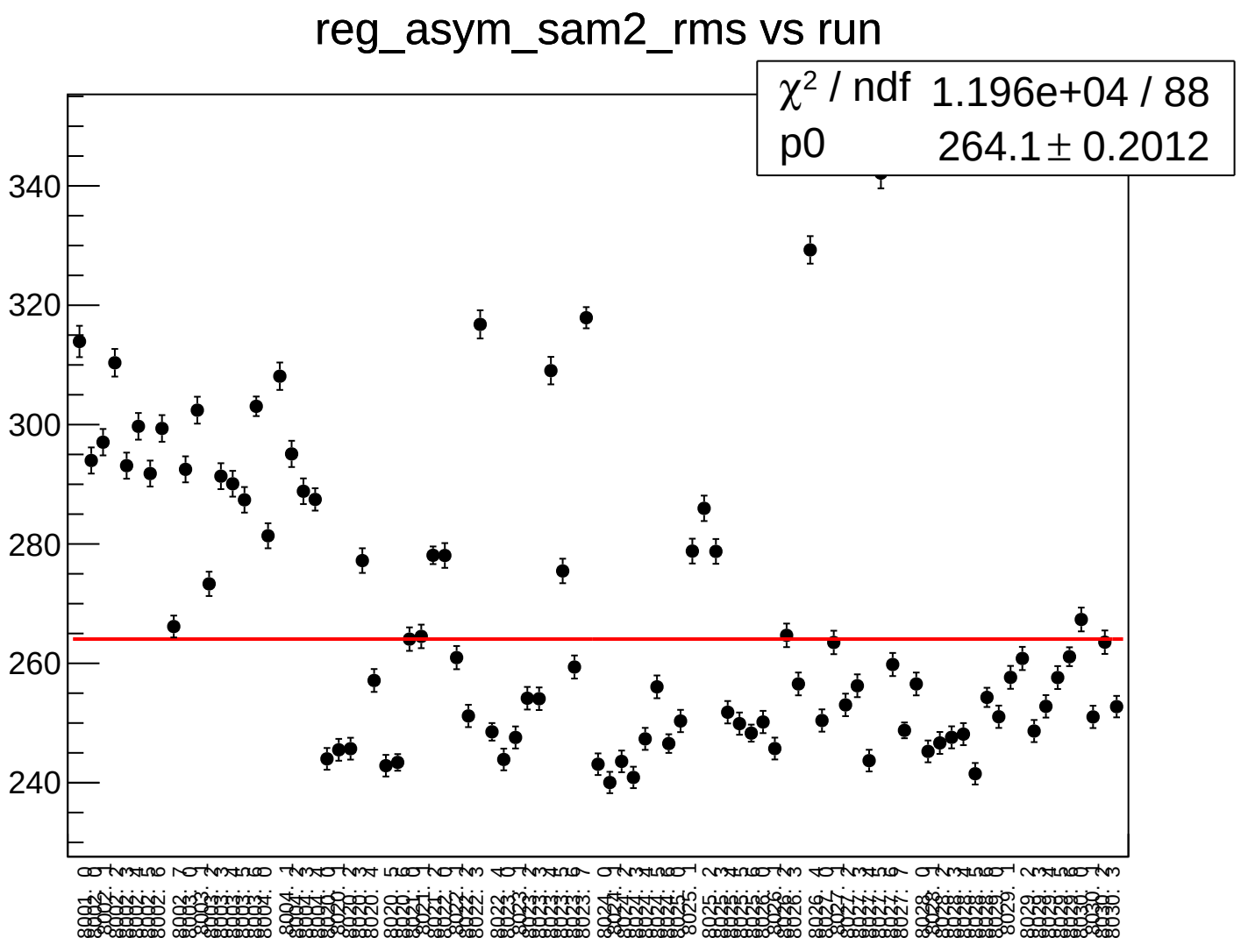

asym_sam1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.5 / 88
p0 −1.996e−14 ± 2.415e−14
pull
Entries 89
Mean −77.95
Std Dev 0

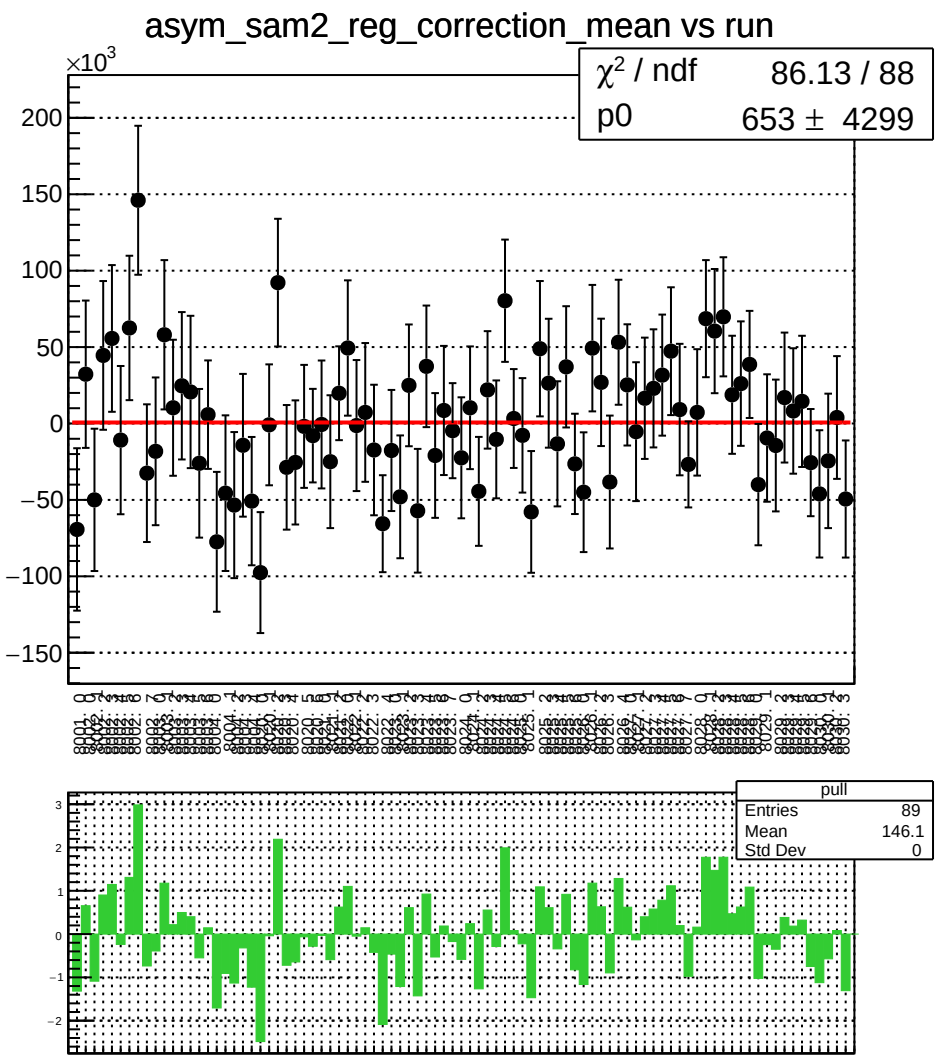

pull1D
Entries 89
Mean −0.02337
Std Dev 1.025

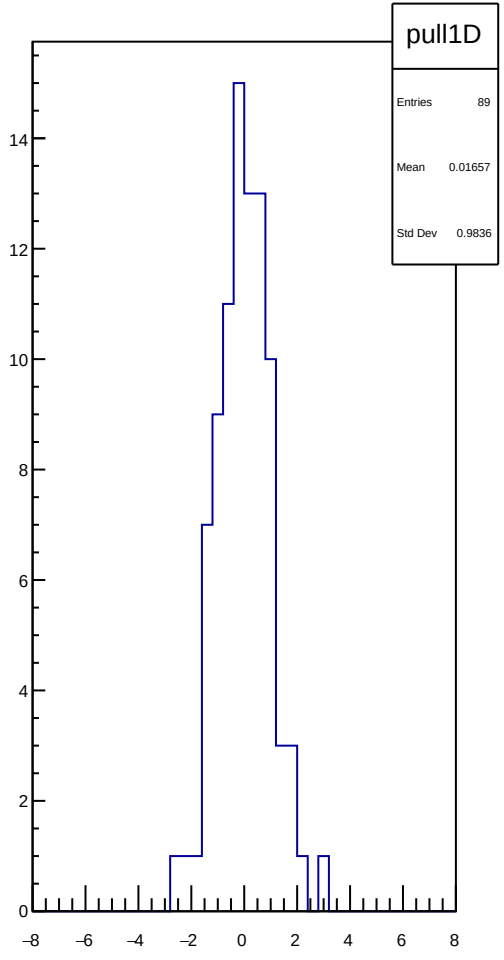

asym_sam1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.578e+05 / 88
p0 1.853e−11 ± 1.708e−14
0.1
0.08
0.06
0.04
0.02

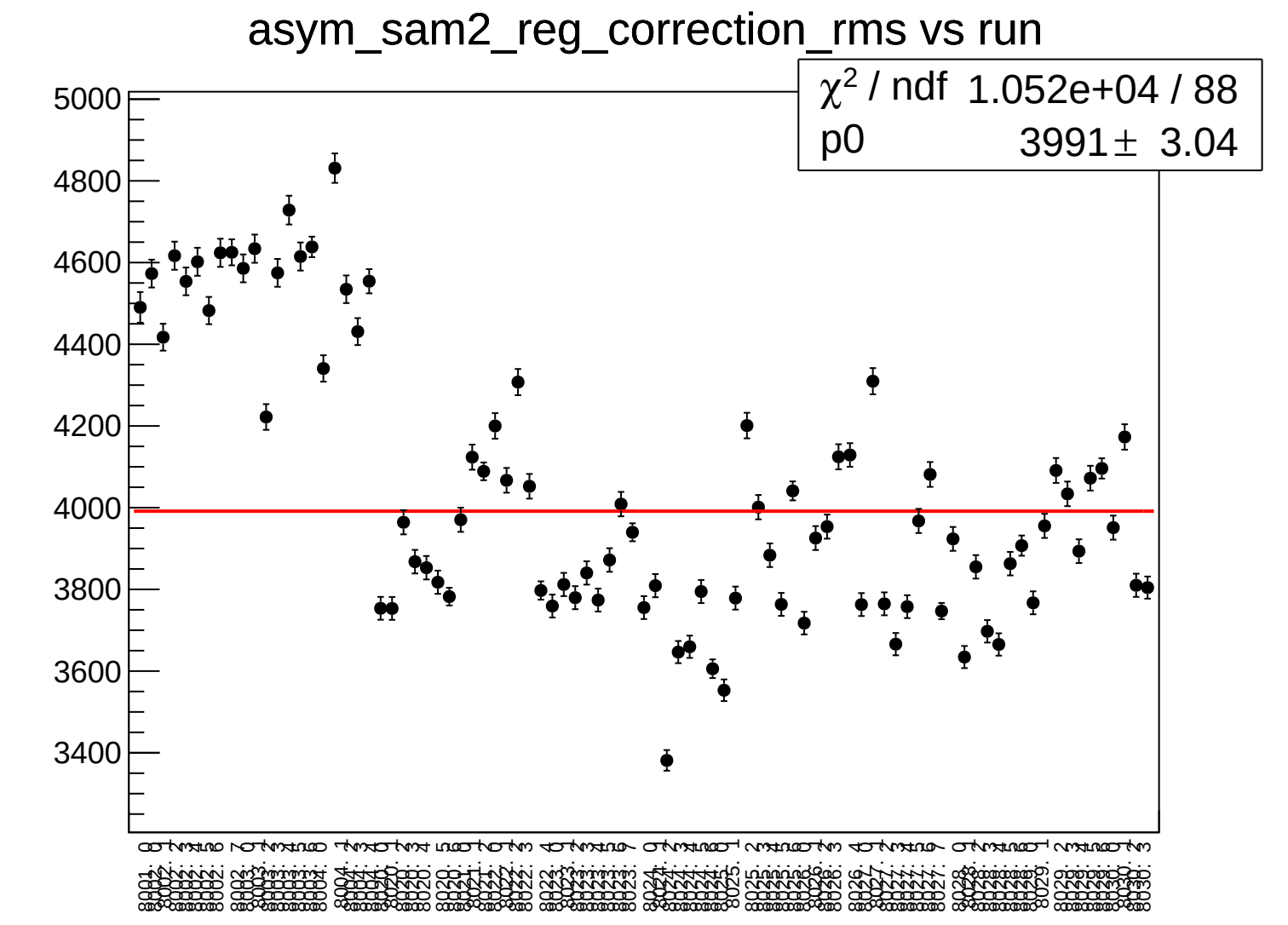

reg_asym_sam2_mean vs run
χ² / ndf 78.08 / 88
p0 415.4 ± 284.5
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −128.4
Std Dev 0
2
1
0
−1
−2

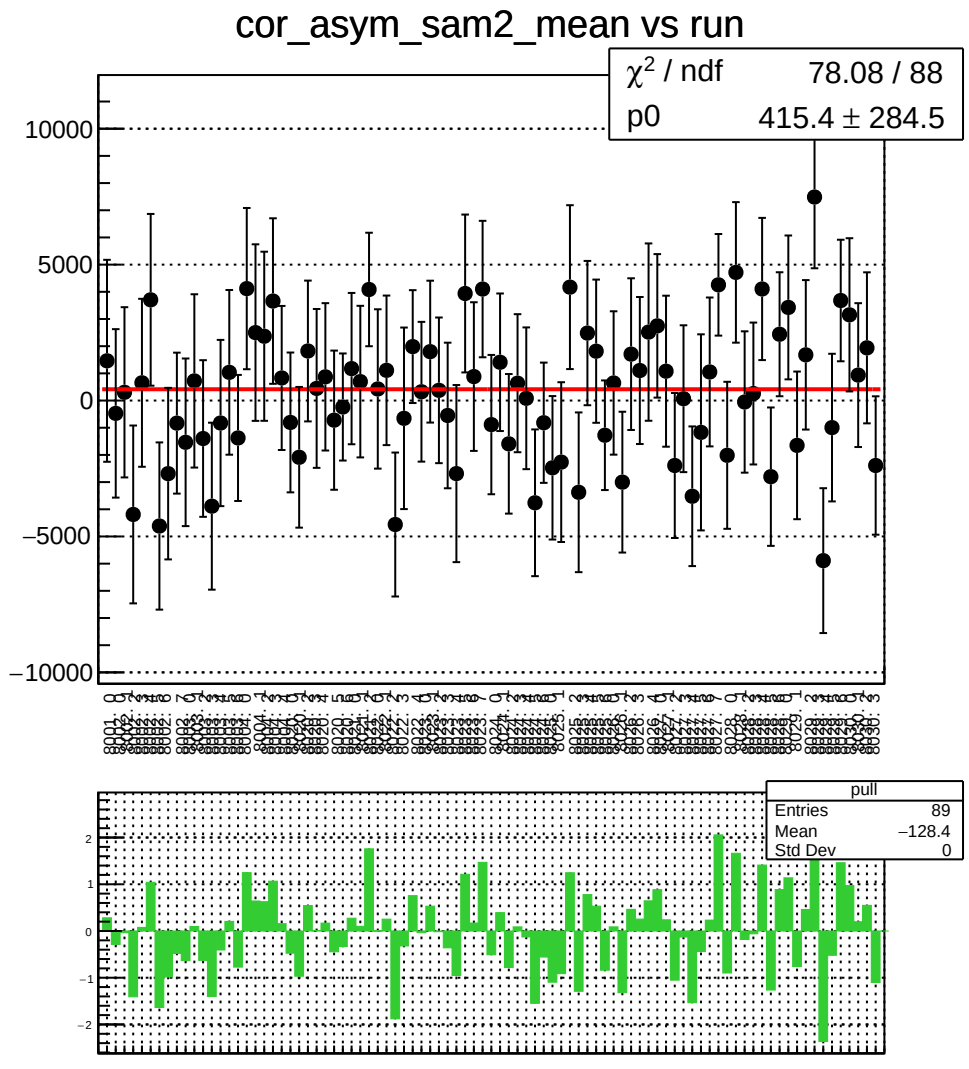

pull1D
Entries 89
Mean −0.01914
Std Dev 0.9364
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

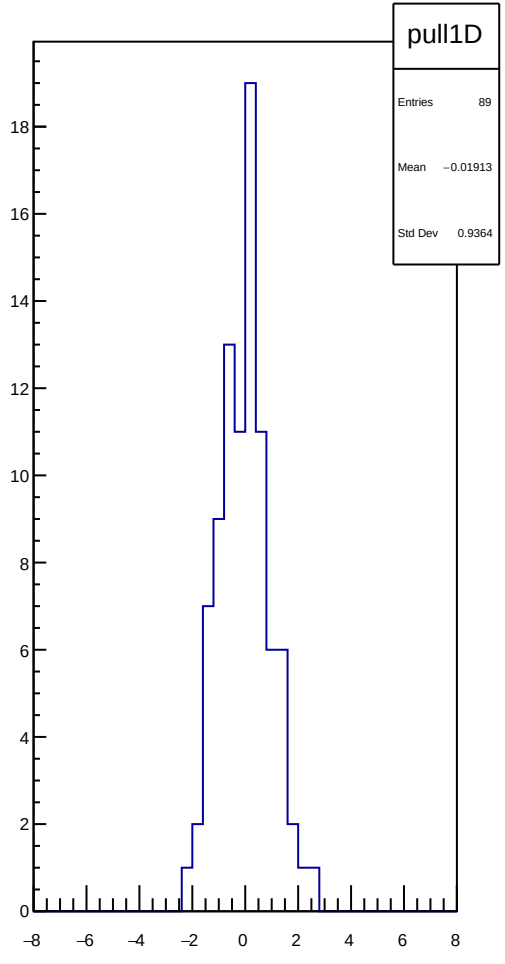

reg_asym_sam2_rms vs run
χ² / ndf 1.196e+04 / 88
p0 264.1 ± 0.2012
340
320
300
280
260
240

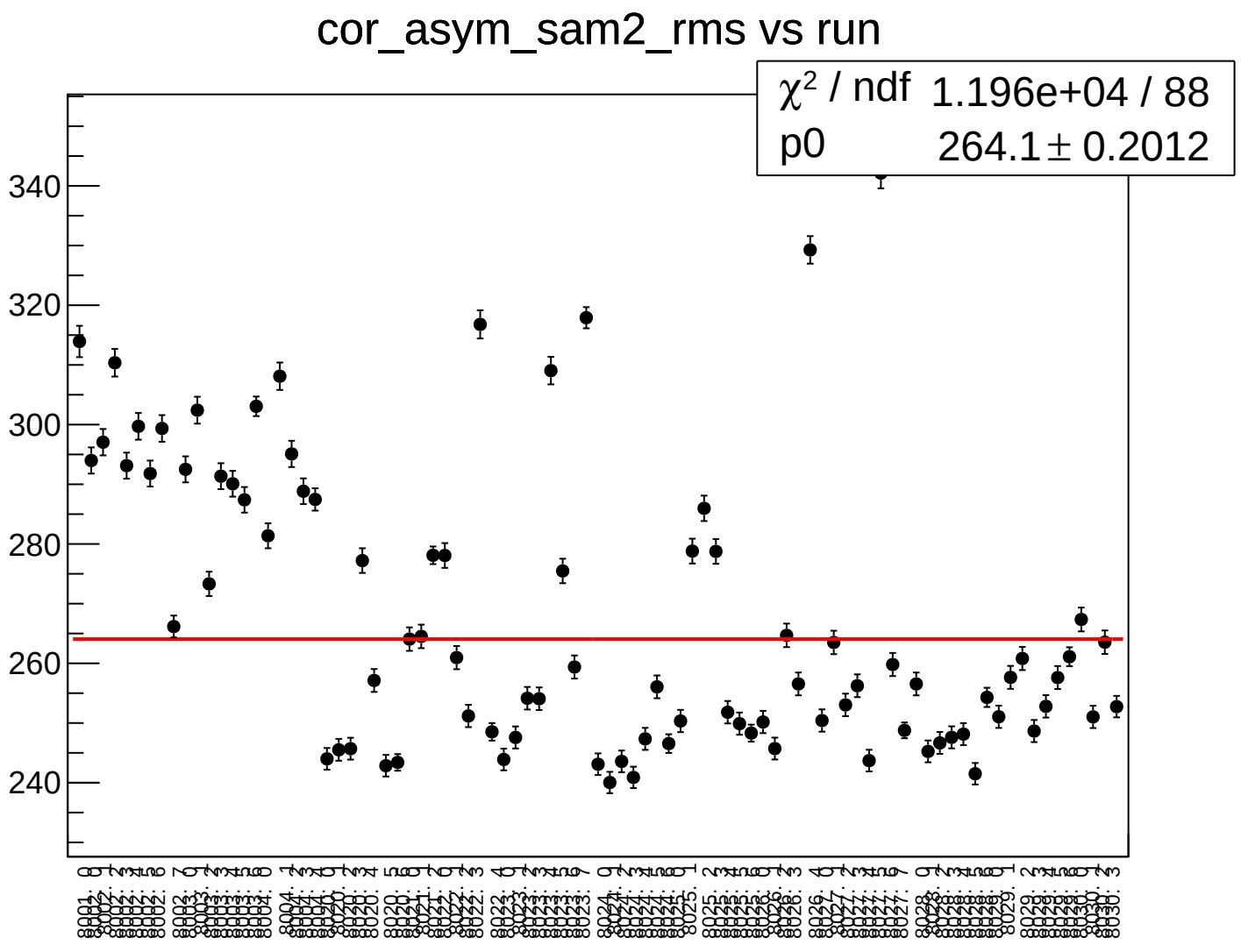

asym_sam2_reg_correction_mean vs run
×10^3
χ² / ndf 86.13 / 88
p0 653 ± 4299
200
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean 146.1
Std Dev 0
3
2
1
0
−1
−2

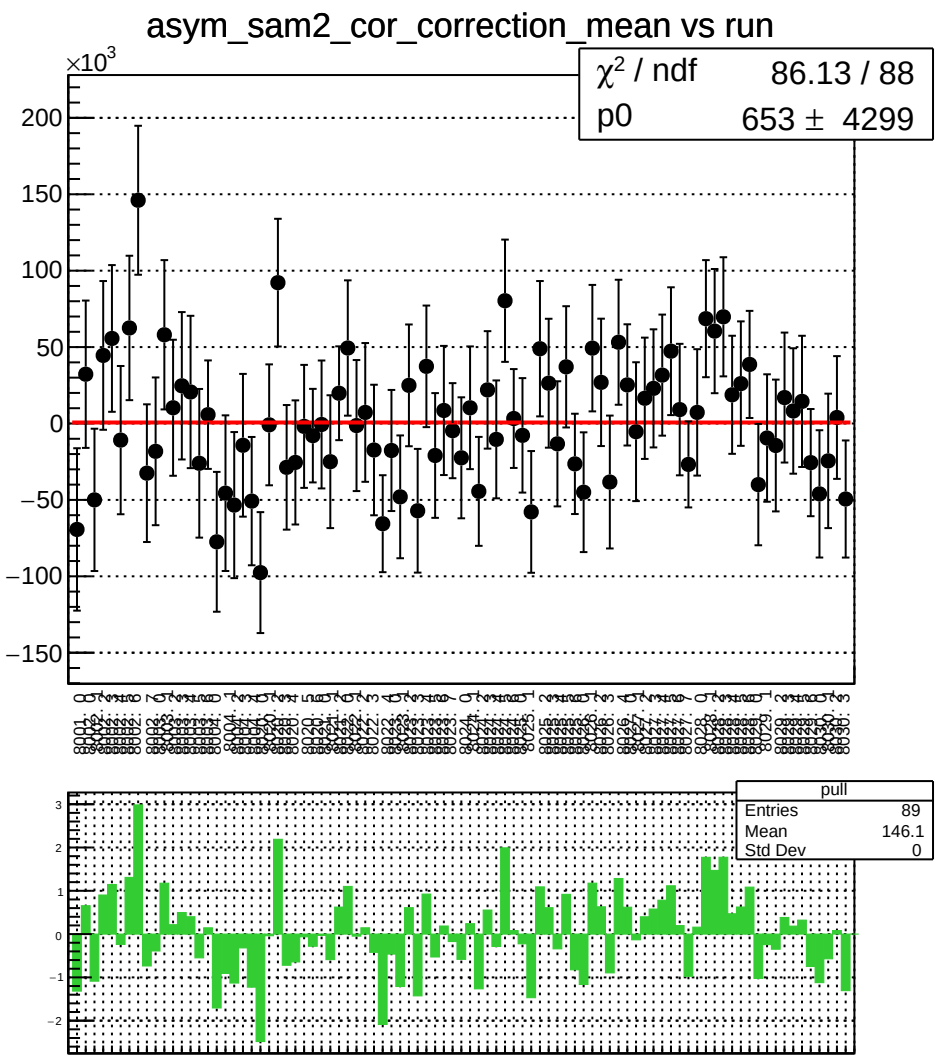

pull1D
Entries 89
Mean 0.01657
Std Dev 0.9836
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

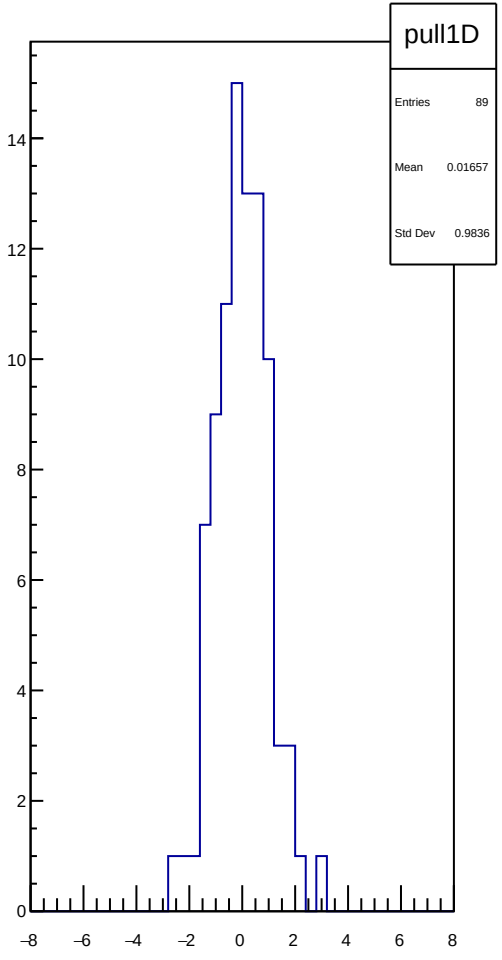

asym_sam2_reg_correction_rms vs run
χ² / ndf 1.052e+04 / 88
p0 3991 ± 3.04
5000
4800
4600
4400
4200
4000
3800
3600
3400

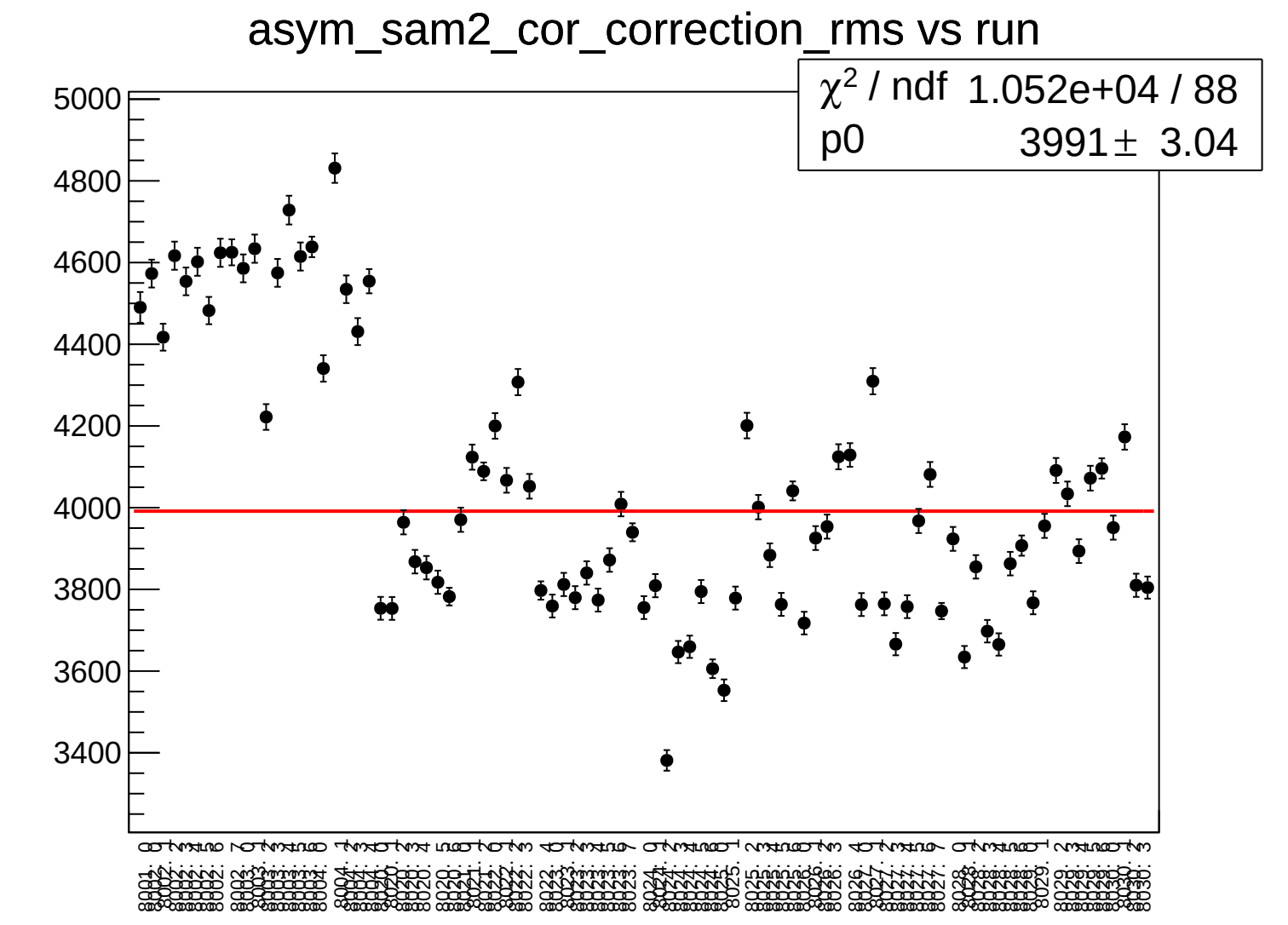

cor_asym_sam2_mean vs run
χ² / ndf 78.08 / 88
p0 415.4 ± 284.5
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −128.4
Std Dev 0
2
1
0
−1
−2

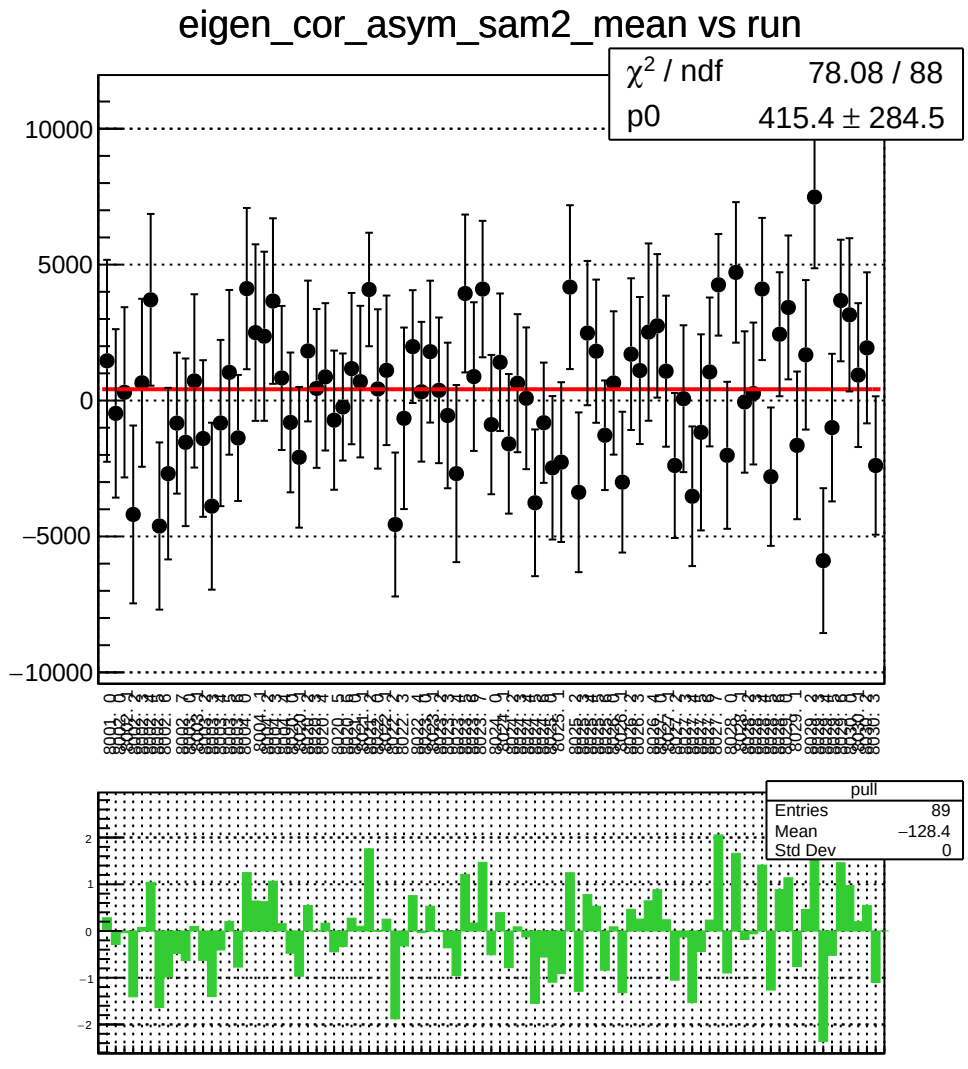

pull1D
Entries 89
Mean −0.01913
Std Dev 0.9364
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

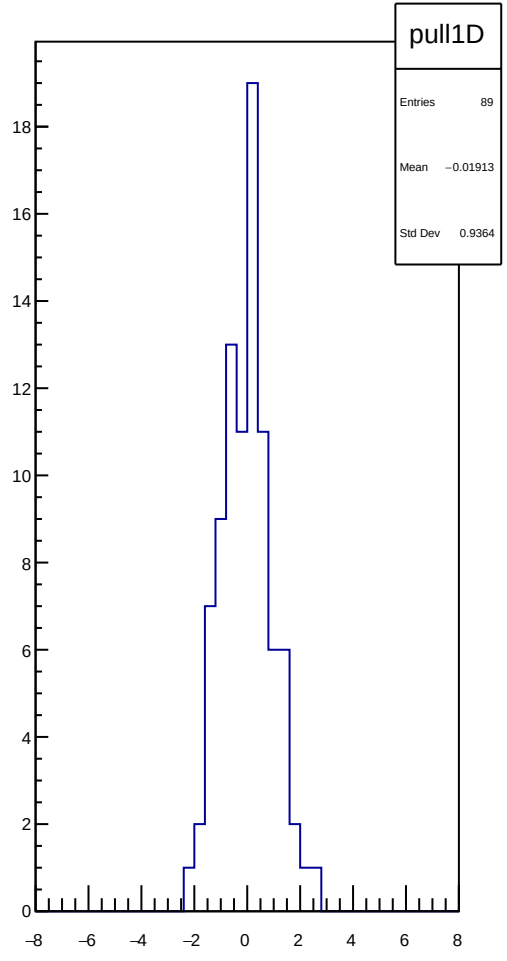

cor_asym_sam2_rms vs run
χ² / ndf 1.196e+04 / 88
p0 264.1 ± 0.2012
340
320
300
280
260
240

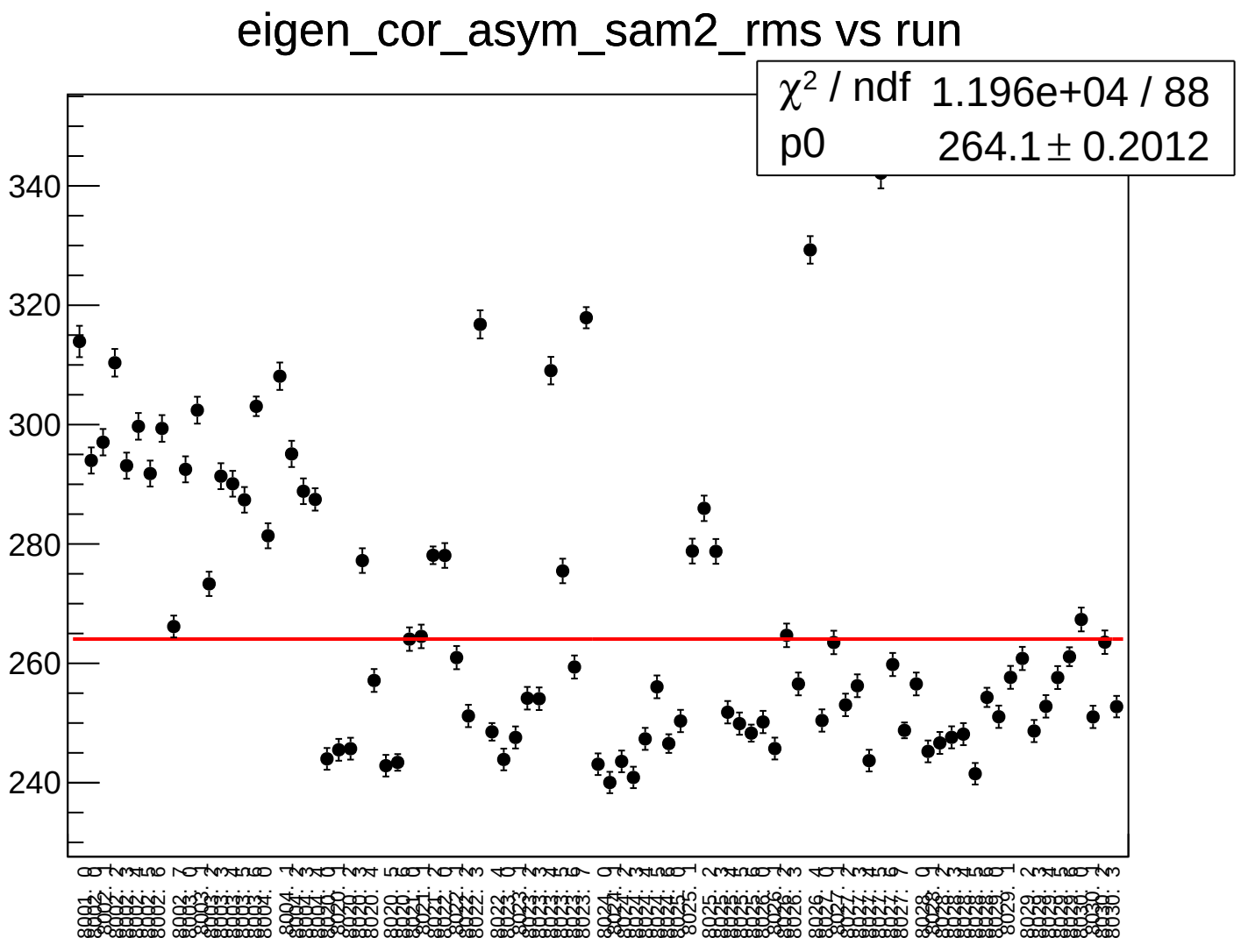

asym_sam2_cor_correction_mean vs run
×10^3
χ² / ndf 86.13 / 88
p0 653 ± 4299
pull
Entries 89
Mean 146.1
Std Dev 0

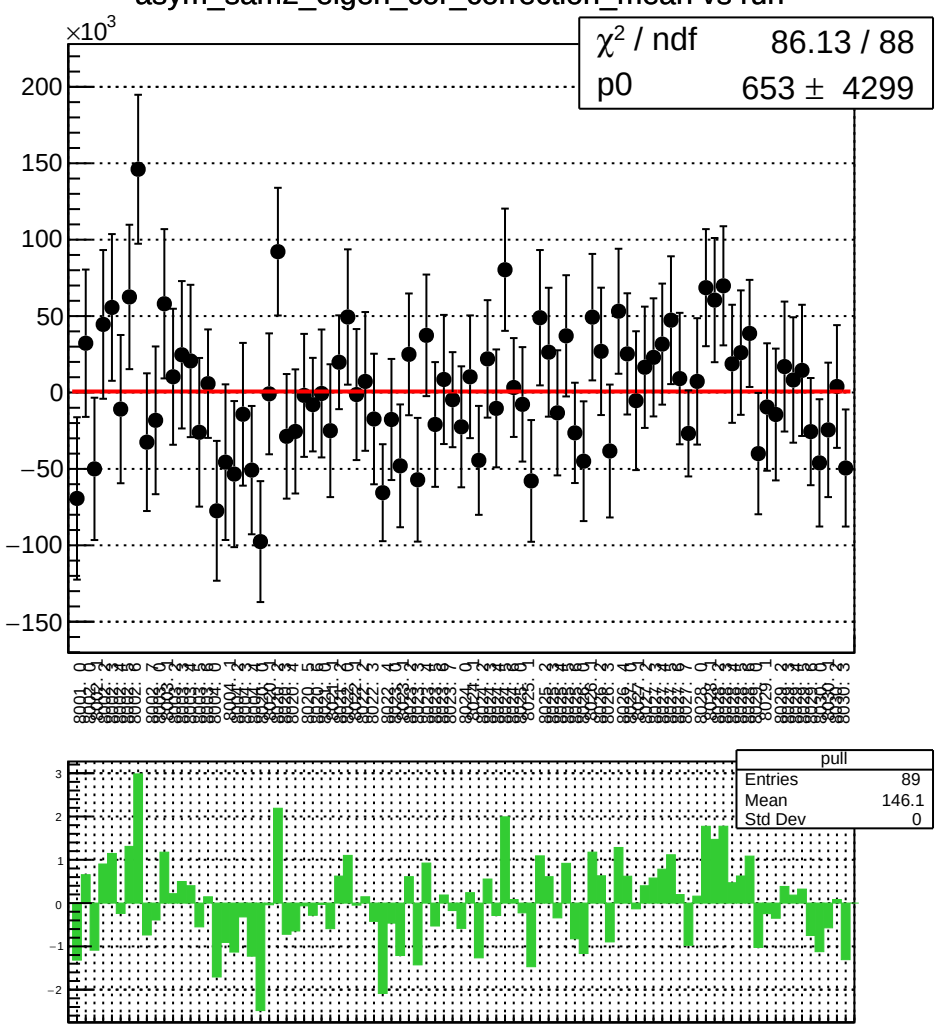

pull1D
Entries 89
Mean 0.01657
Std Dev 0.9836

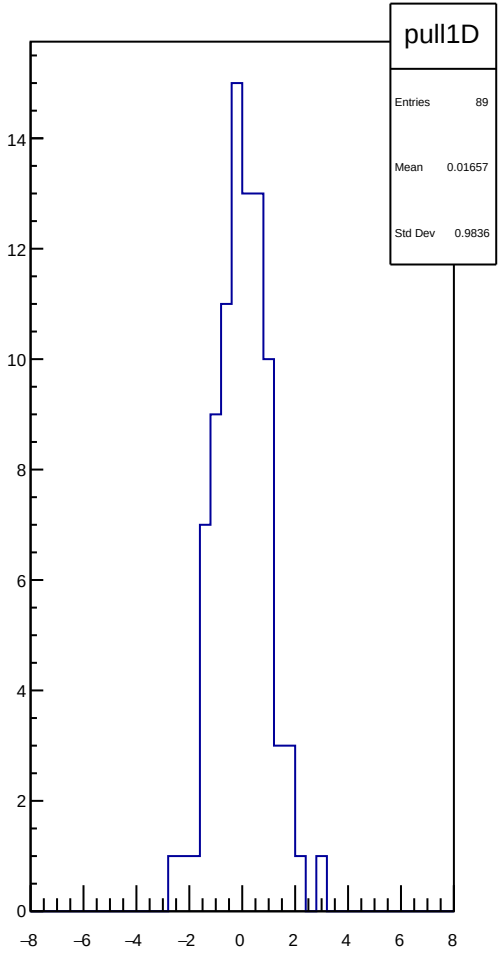

asym_sam2_cor_correction_rms vs run
χ² / ndf 1.052e+04 / 88
p0 3991 ± 3.04
5000
4800
4600
4400
4200
4000
3800
3600
3400

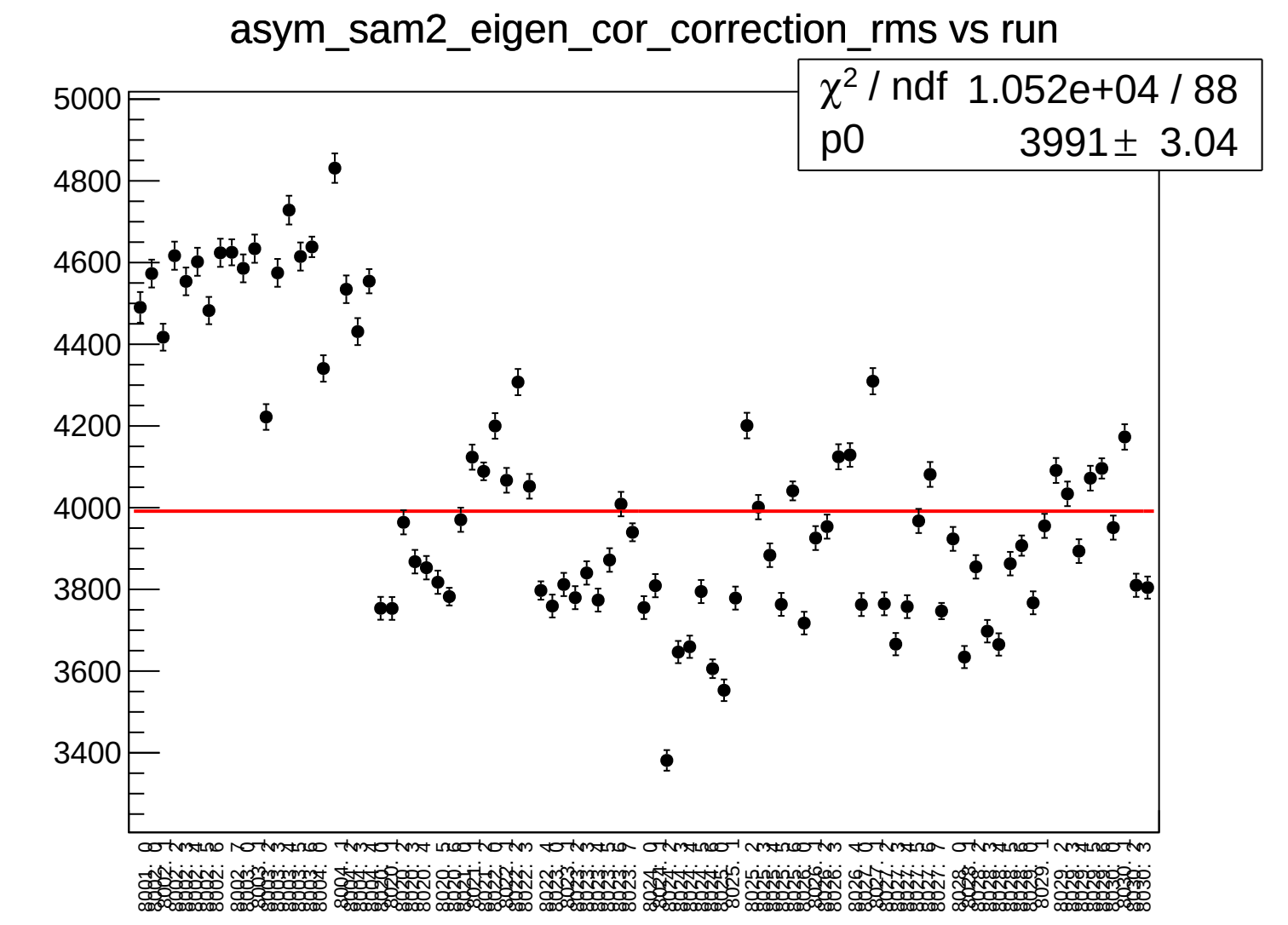

eigen_cor_asym_sam2_mean vs run
χ² / ndf 78.08 / 88
p0 415.4 ± 284.5
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −128.4
Std Dev 0
2
1
0
−1
−2

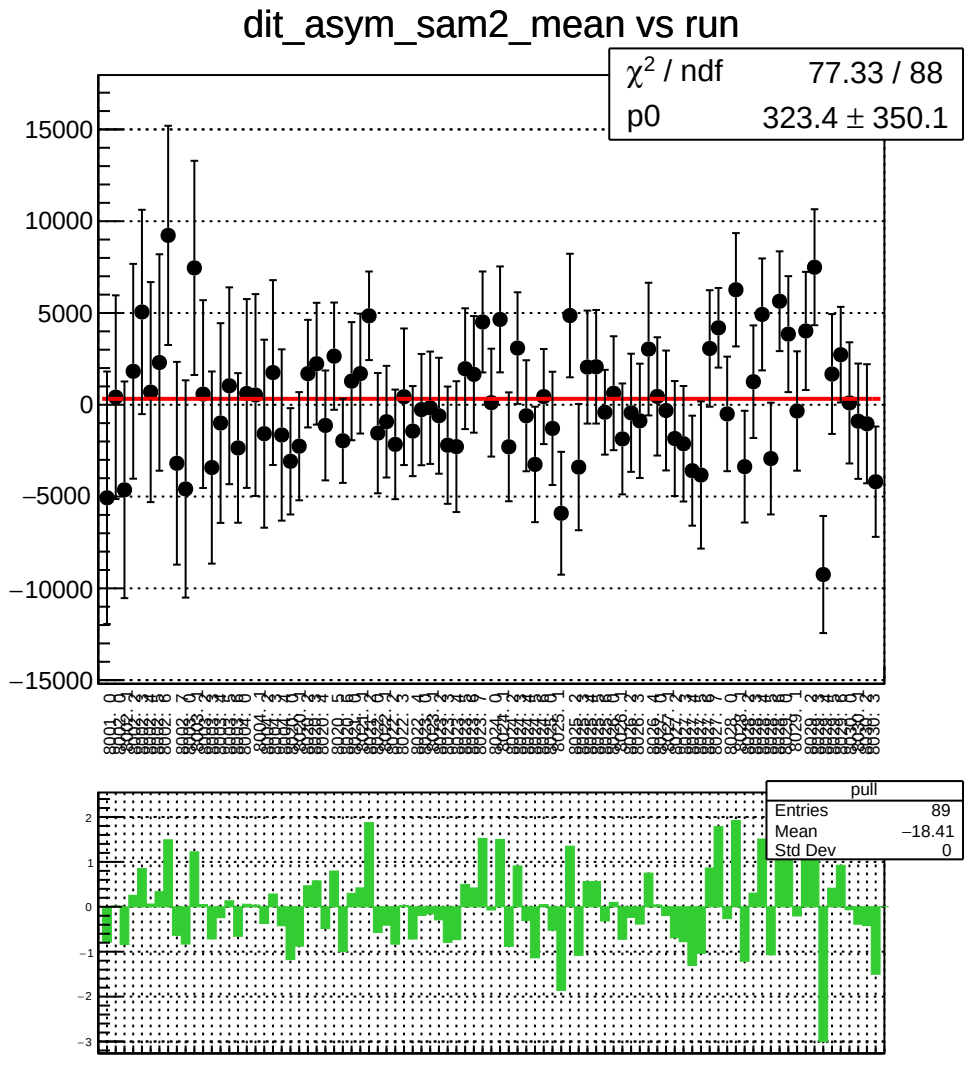

pull1D
Entries 89
Mean −0.01913
Std Dev 0.9364
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

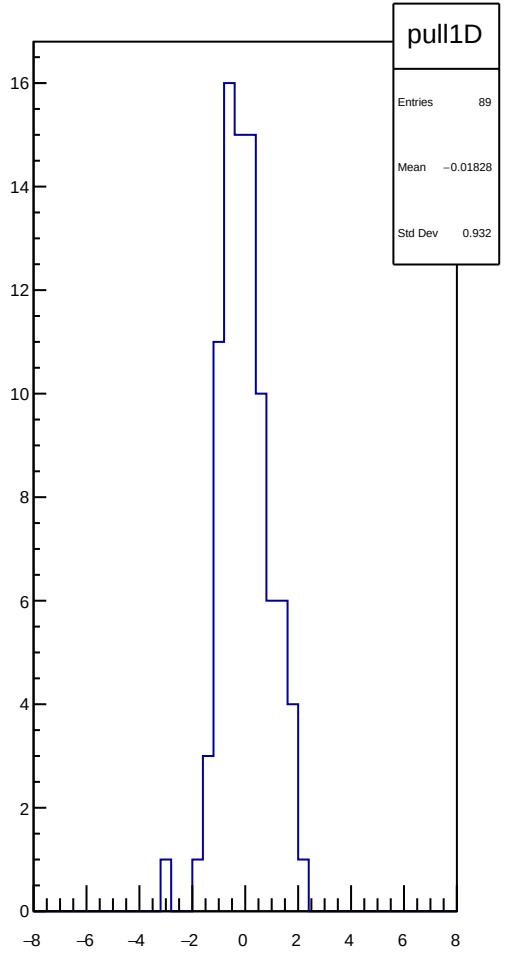

eigen_cor_asym_sam2_rms vs run
χ² / ndf 1.196e+04 / 88
p0 264.1 ± 0.2012
340
320
300
280
260
240

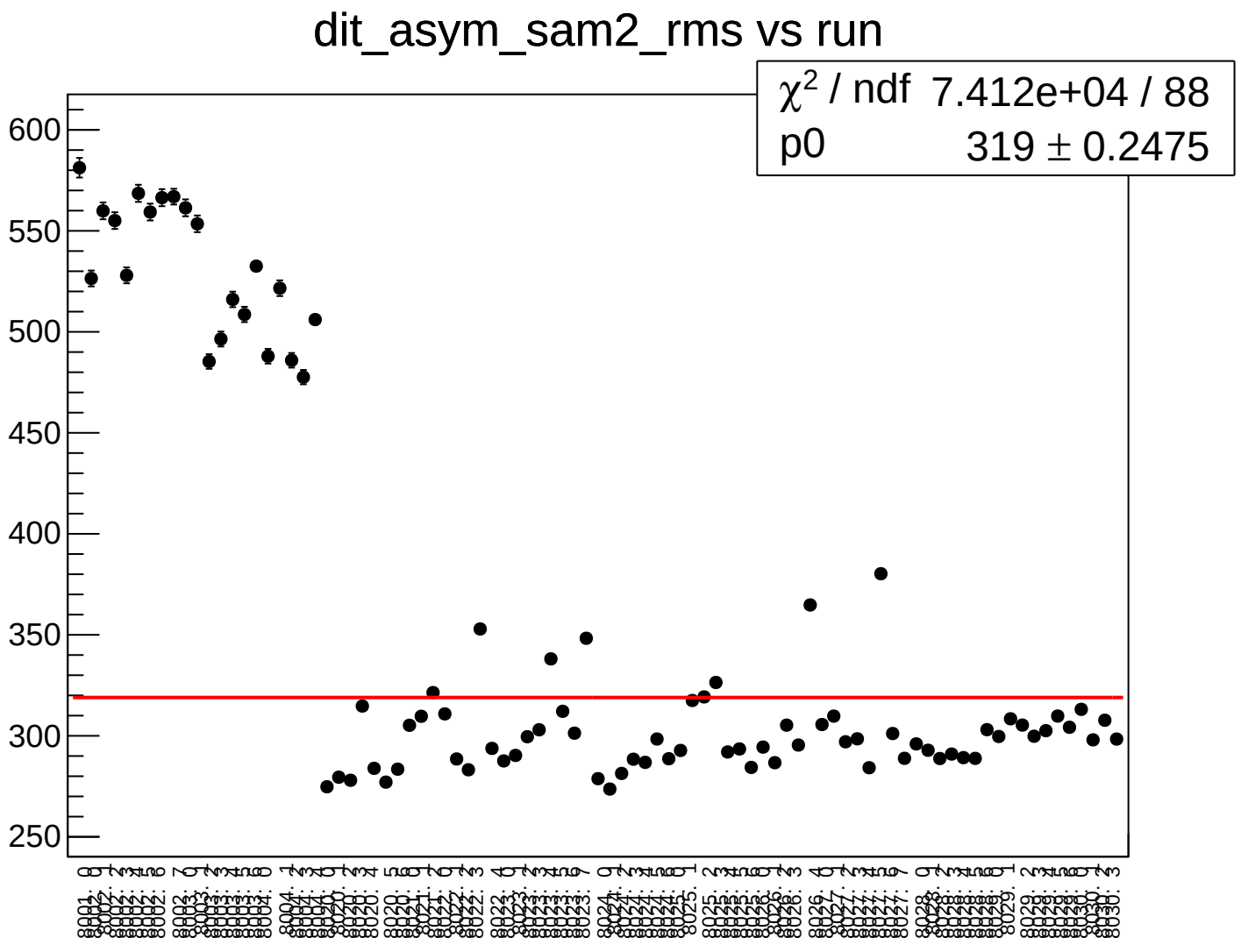

asym_sam2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 86.13 / 88
p0 653 ± 4299
pull
Entries 89
Mean 146.1
Std Dev 0

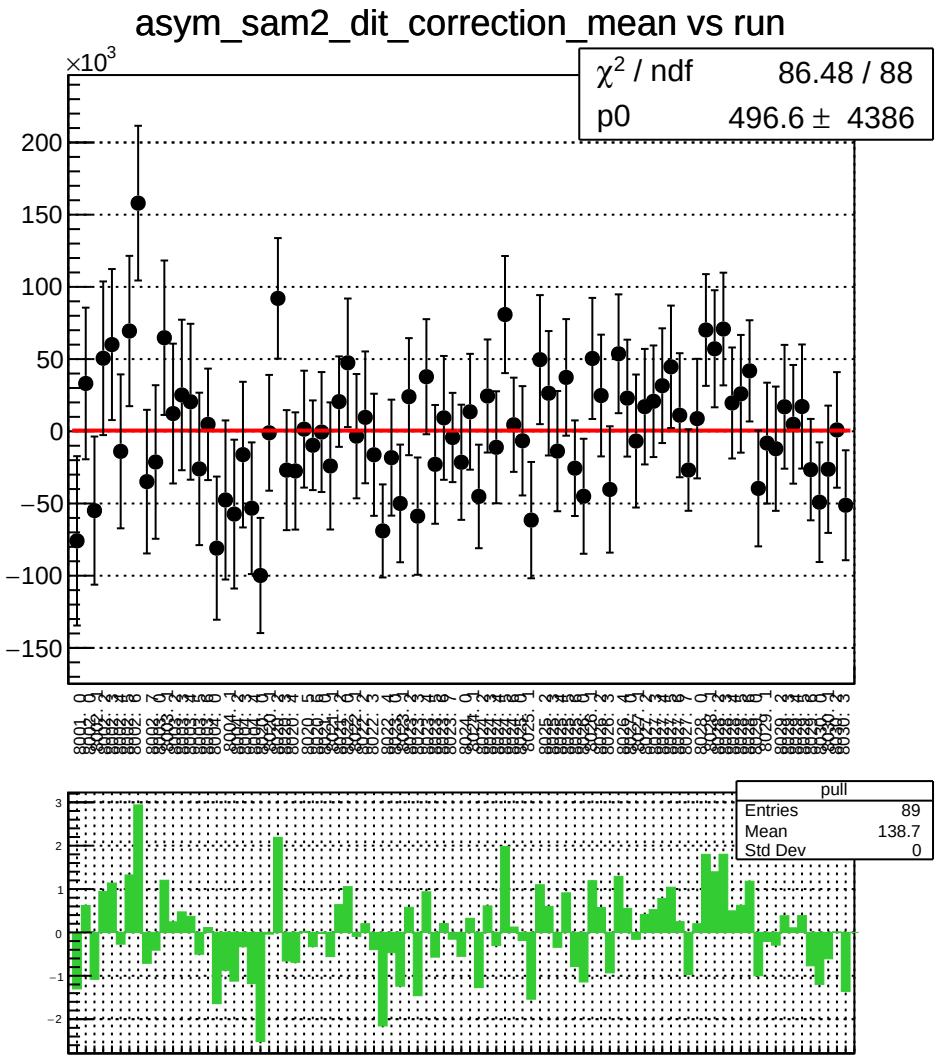

pull1D
Entries 89
Mean 0.01657
Std Dev 0.9836

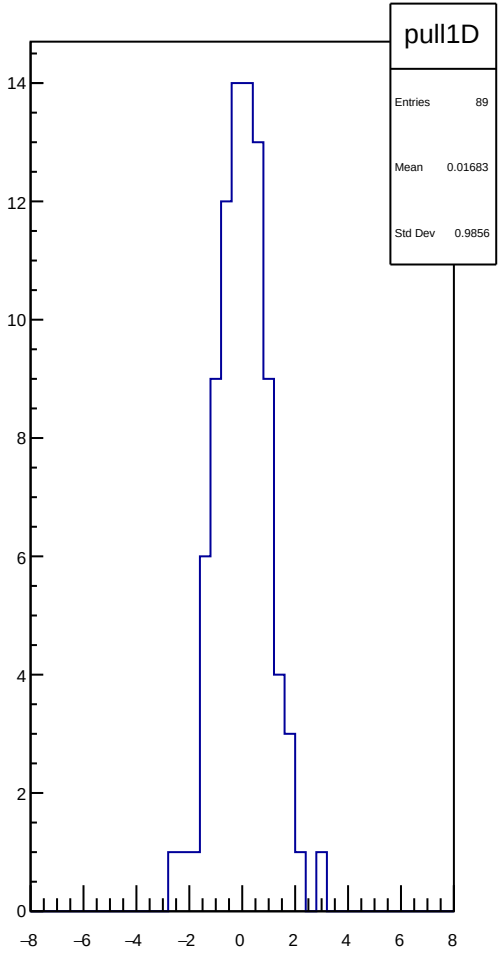

asym_sam2_eigen_cor_correction_rms vs run
χ² / ndf 1.052e+04 / 88
p0 3991 ± 3.04
5000
4800
4600
4400
4200
4000
3800
3600
3400

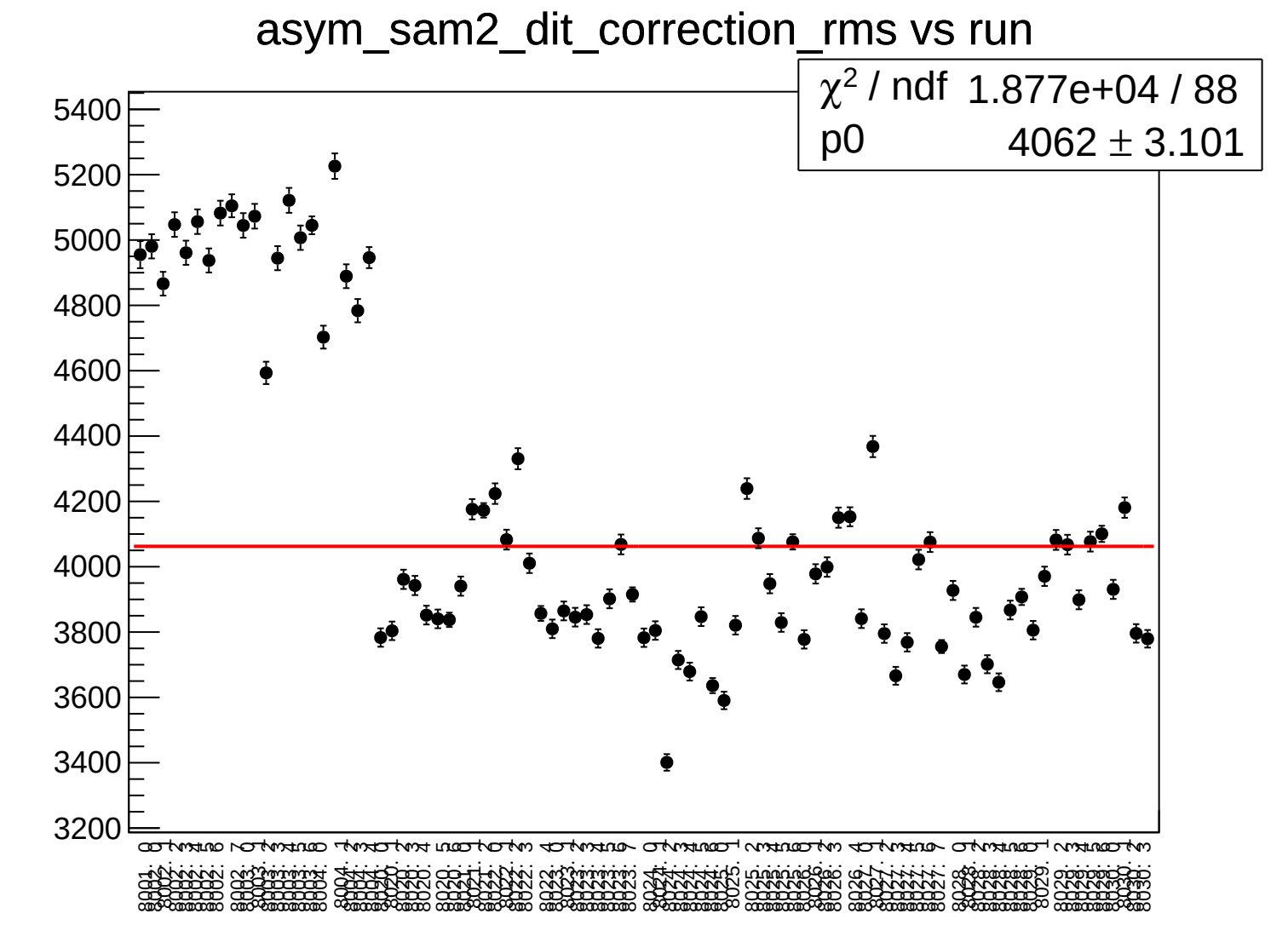

dit_asym_sam2_mean vs run
χ² / ndf 77.33 / 88
p0 323.4 ± 350.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −18.41
Std Dev 0
2
1
0
−1
−2
−3

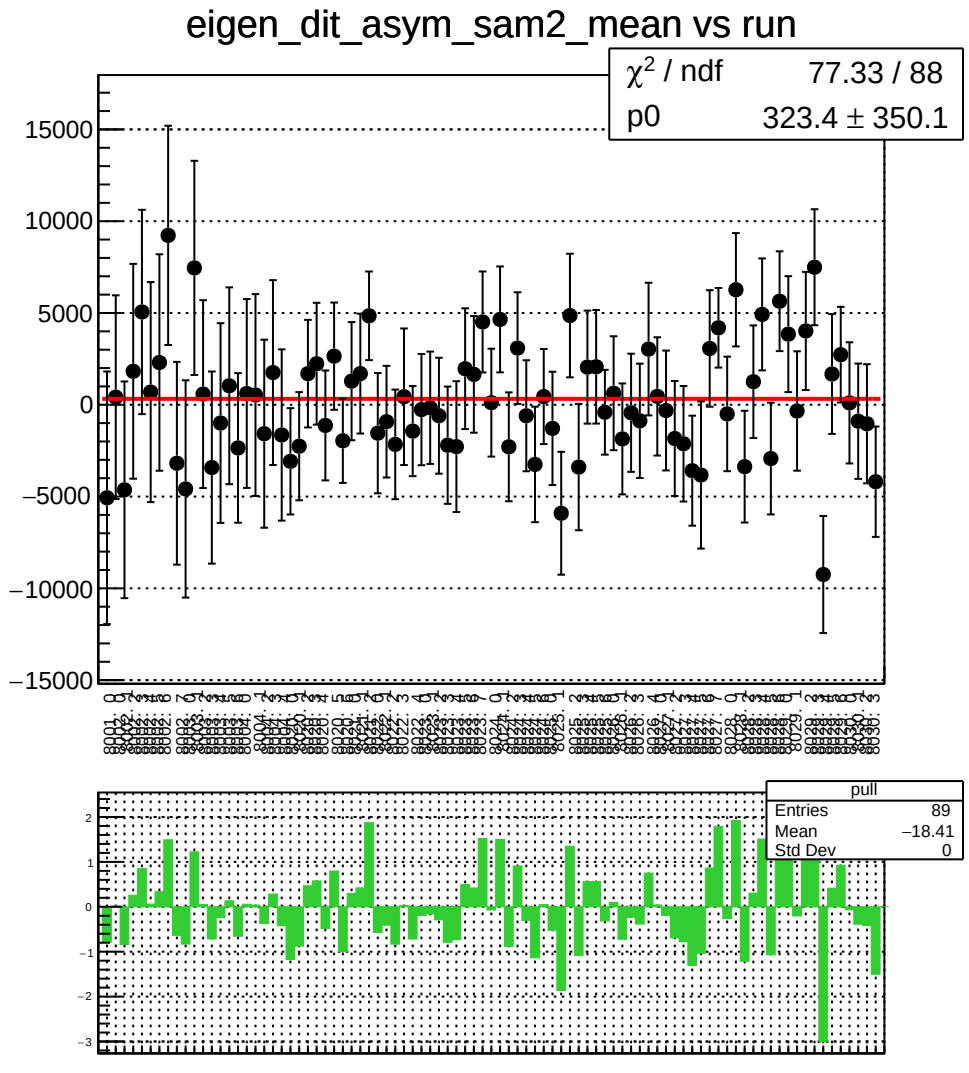

pull1D
Entries 89
Mean −0.01828
Std Dev 0.932
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

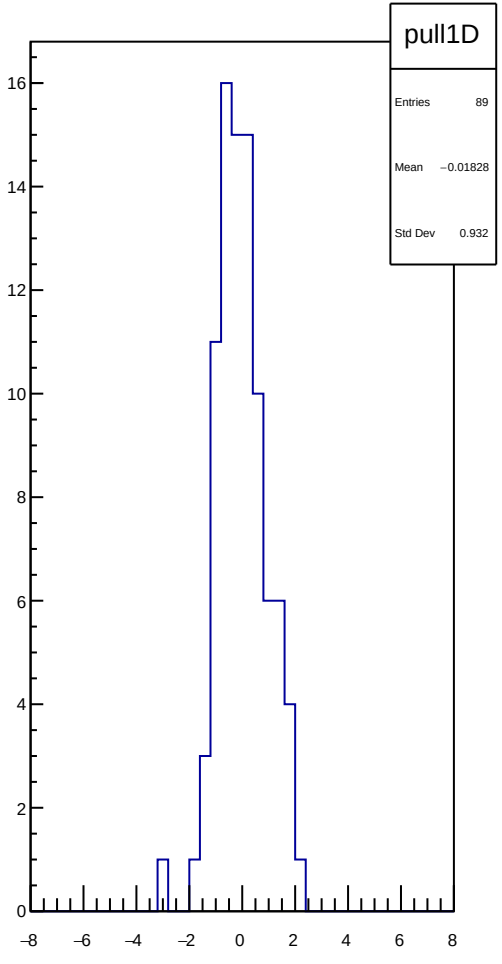

dit_asym_sam2_rms vs run
χ^2 / ndf 7.412e+04 / 88
p0 319 ± 0.2475
600
550
500
450
400
350
300
250

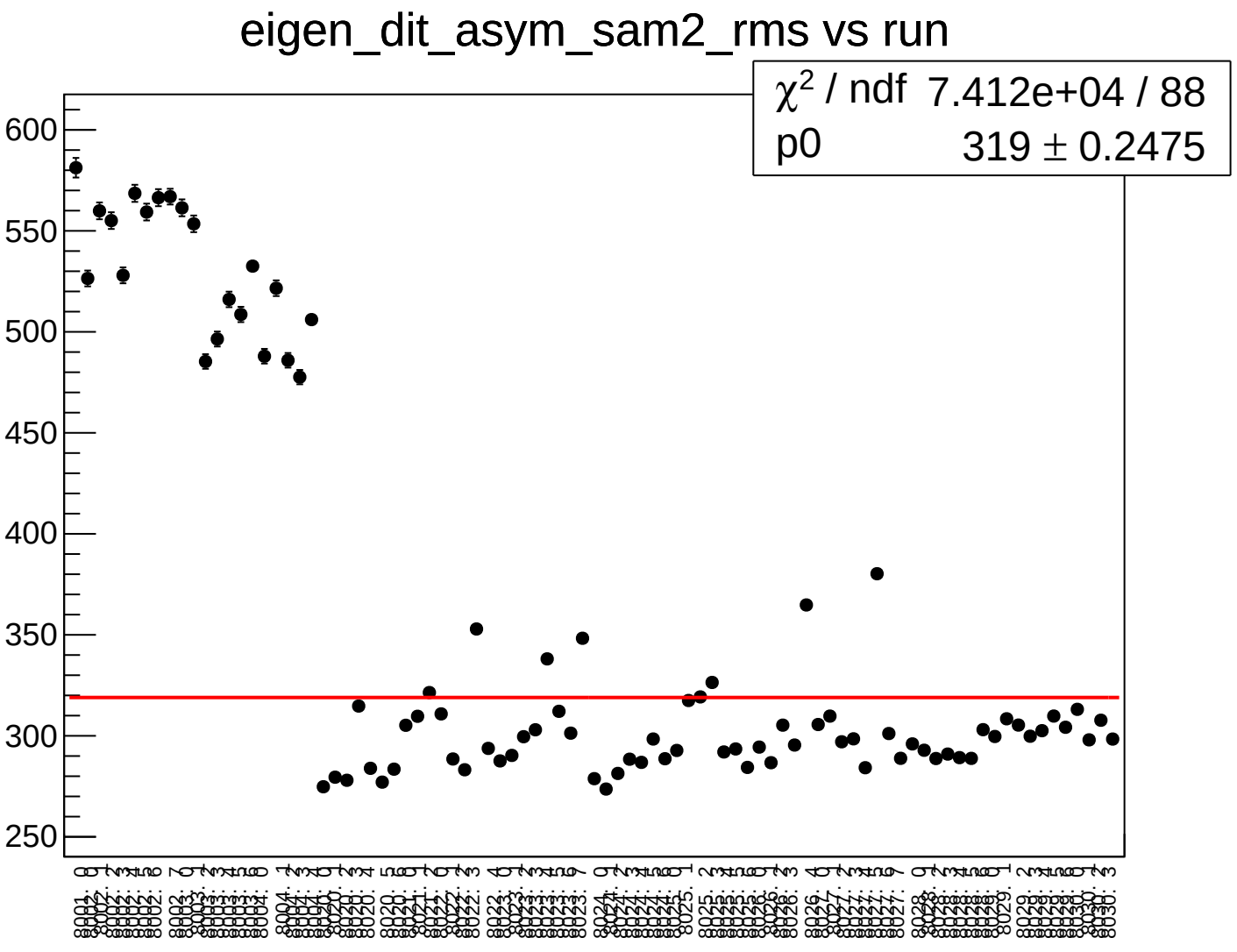

asym_sam2_dit_correction_mean vs run
×10^3
χ^2 / ndf 86.48 / 88
p0 496.6 ± 4386
pull
Entries 89
Mean 138.7
Std Dev 0

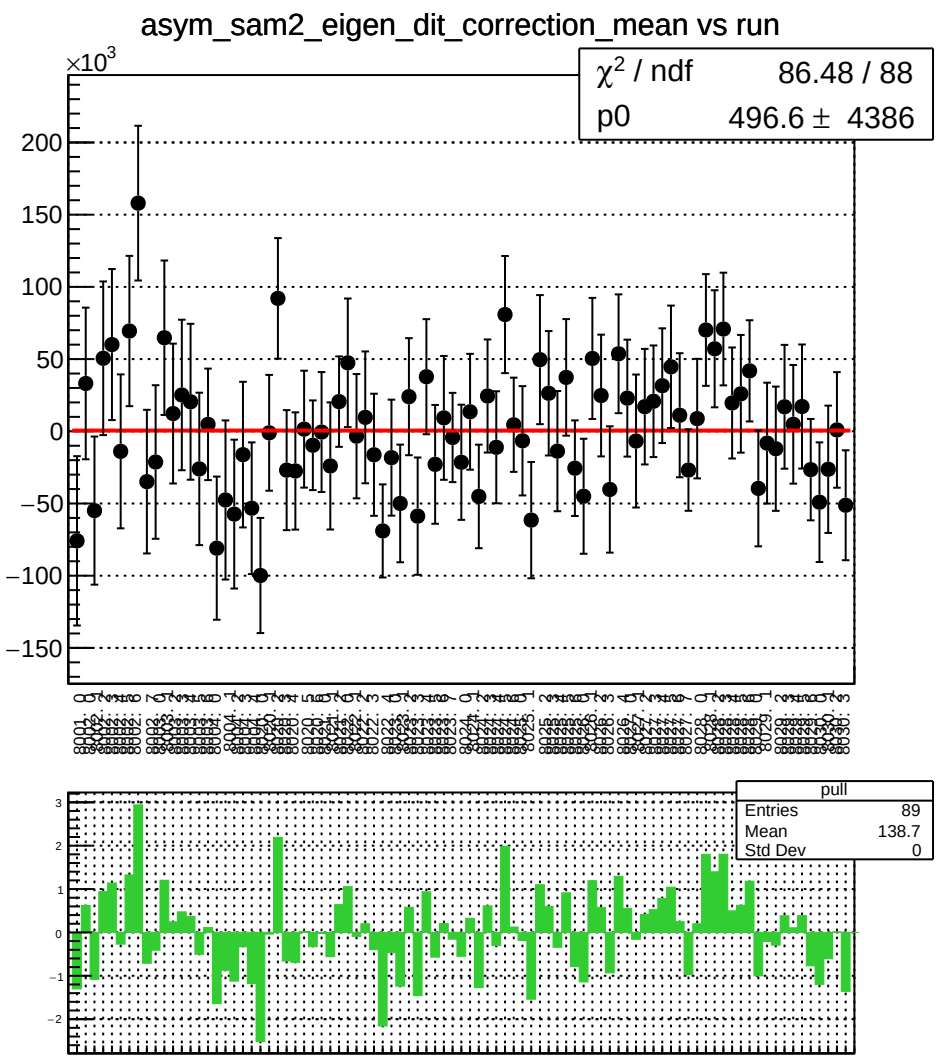

pull1D
Entries 89
Mean 0.01683
Std Dev 0.9856

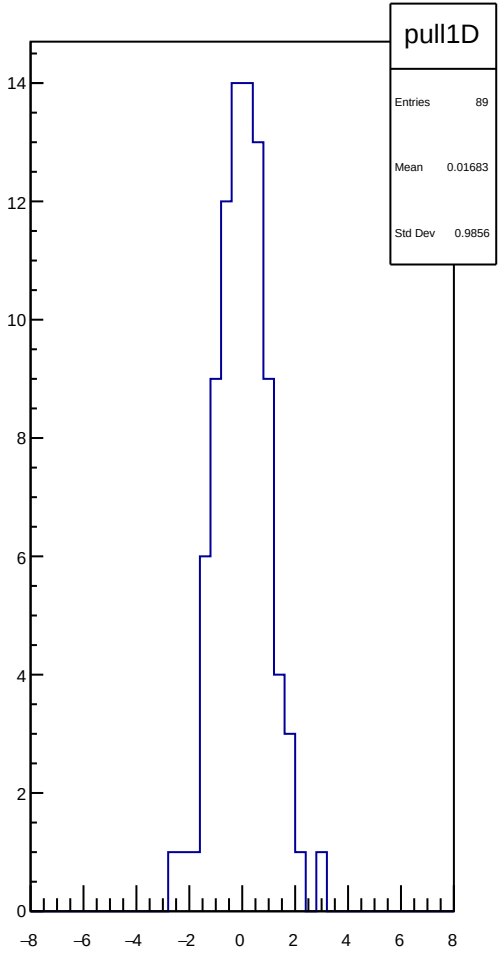

asym_sam2_dit_correction_rms vs run
χ² / ndf 1.877e+04 / 88
p0 4062 ± 3.101
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

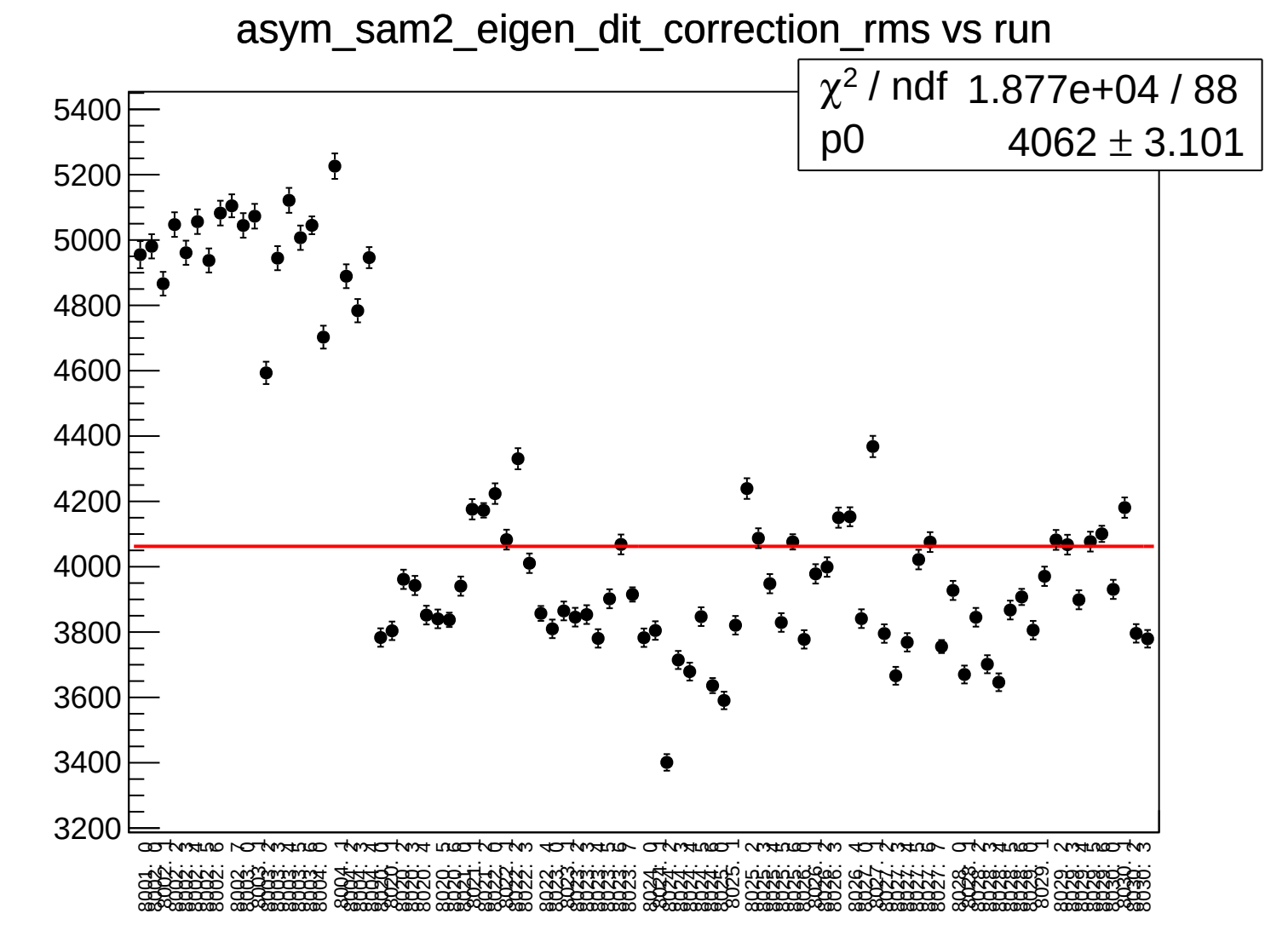

eigen_dit_asym_sam2_mean vs run
χ² / ndf 77.33 / 88
p0 323.4 ± 350.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −18.41
Std Dev 0
2
1
0
−1
−2
−3

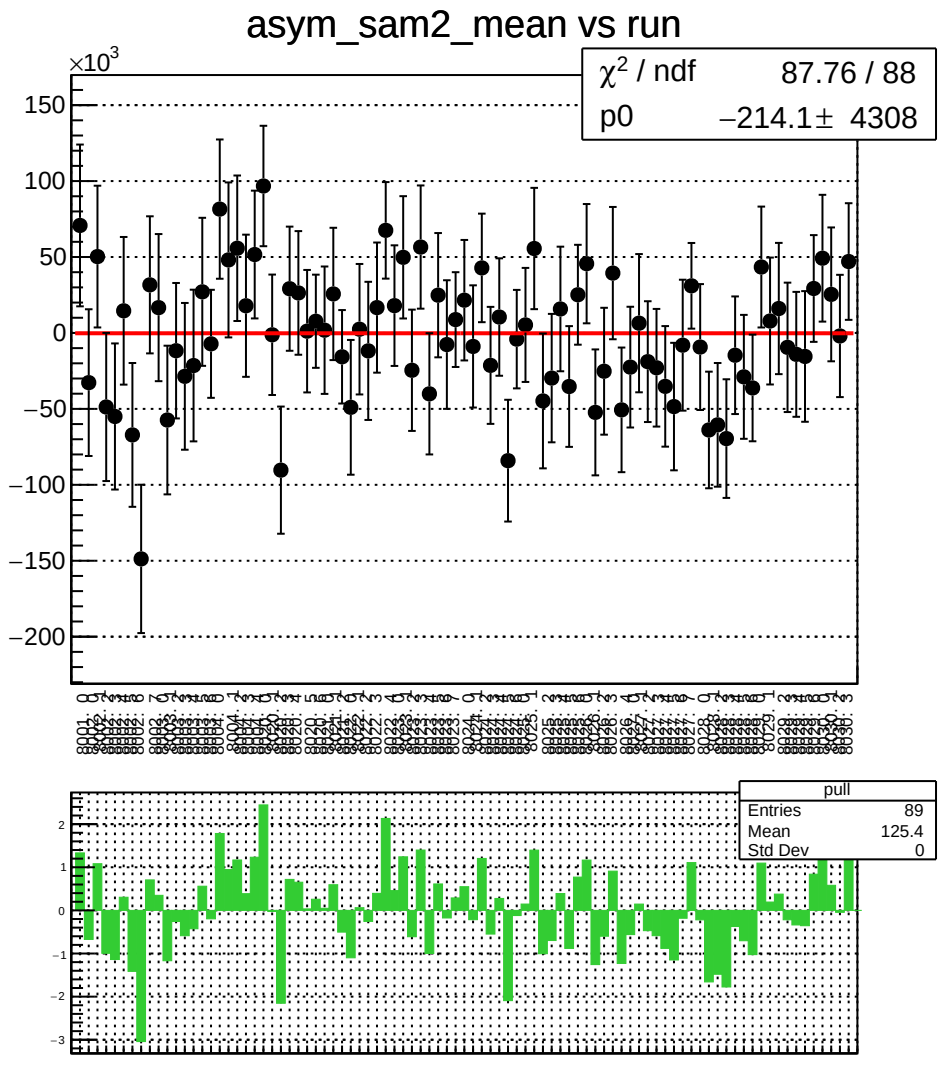

pull1D
Entries 89
Mean −0.01828
Std Dev 0.932
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

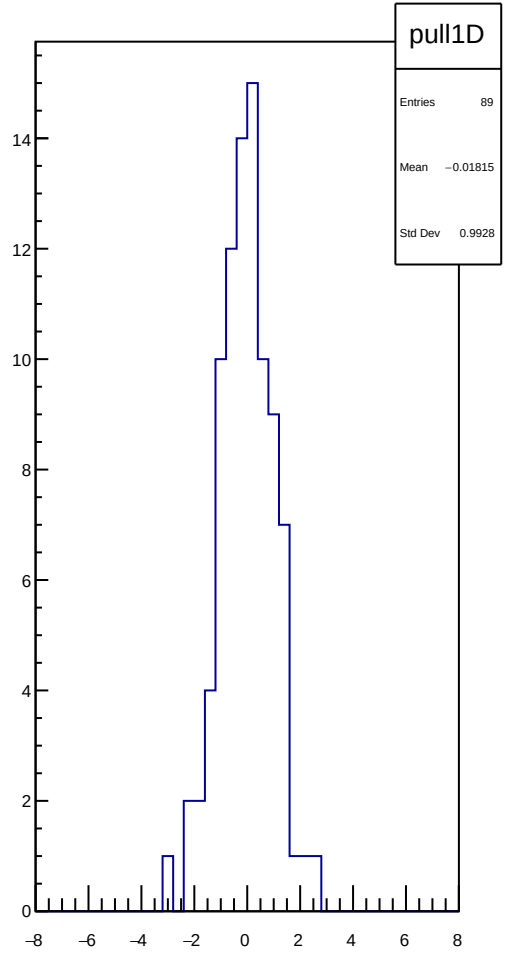

eigen_dit_asym_sam2_rms vs run
χ² / ndf 7.412e+04 / 88
p0 319 ± 0.2475
600
550
500
450
400
350
300
250

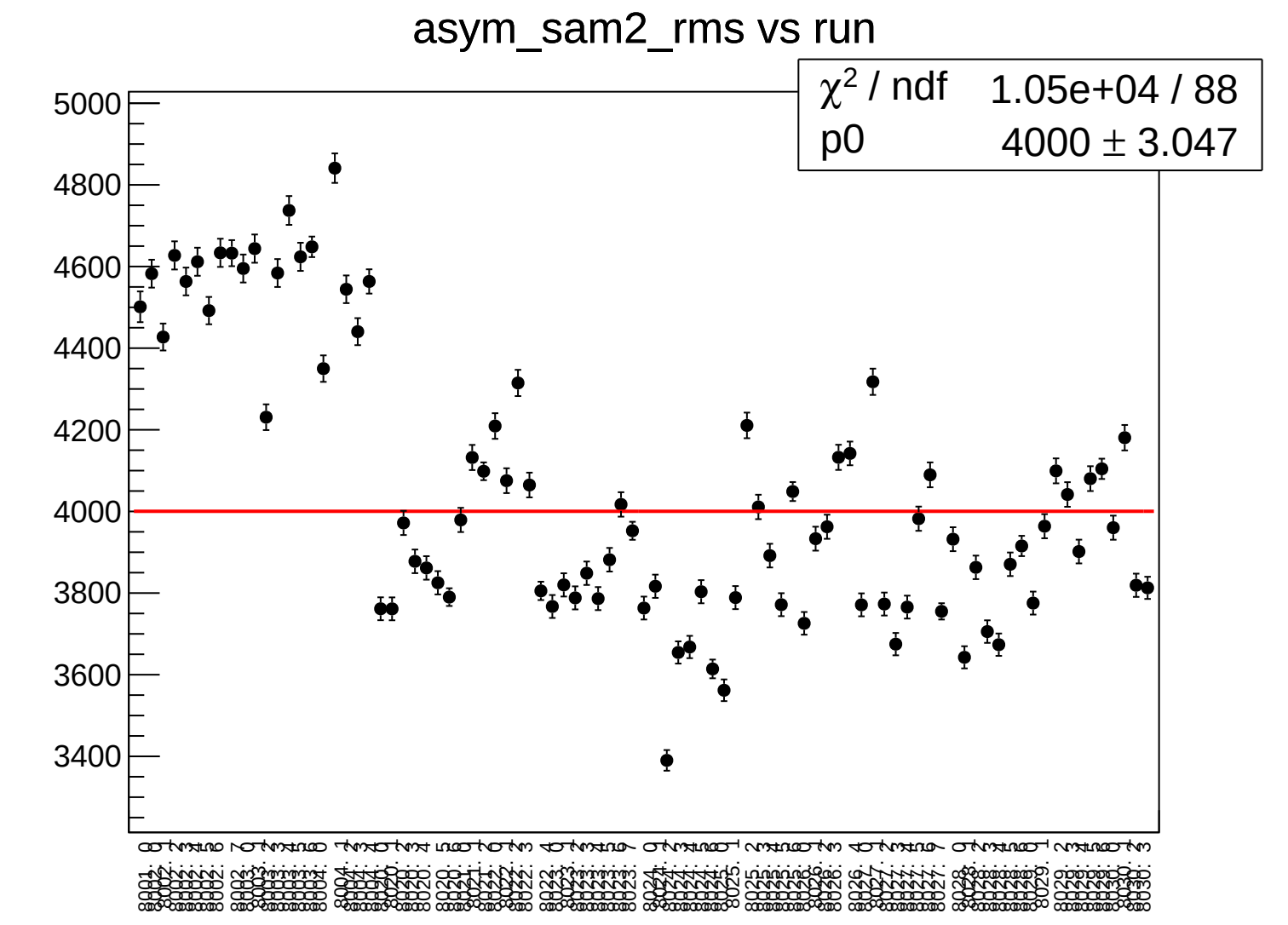

asym_sam2_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 86.48 / 88
p0 496.6 ± 4386
200
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean 138.7
Std Dev 0
3
2
1
0
−1
−2

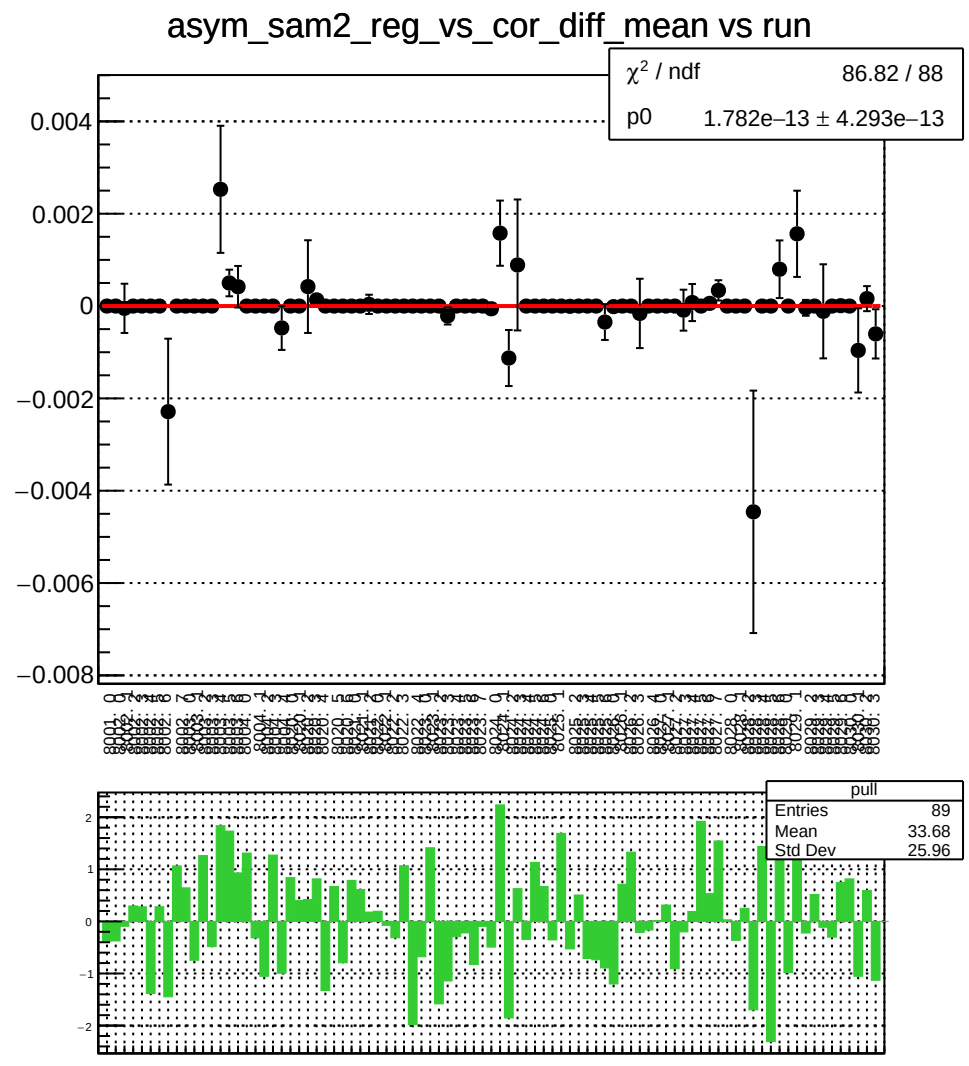

pull1D
Entries 89
Mean 0.01683
Std Dev 0.9856
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

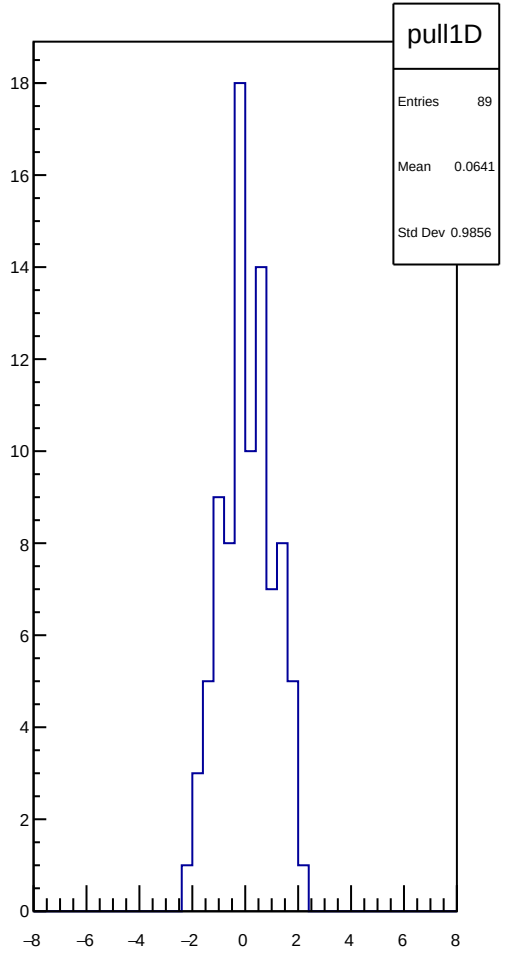

asym_sam2_eigen_dit_correction_rms vs run
χ² / ndf 1.877e+04 / 88
p0 4062 ± 3.101
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

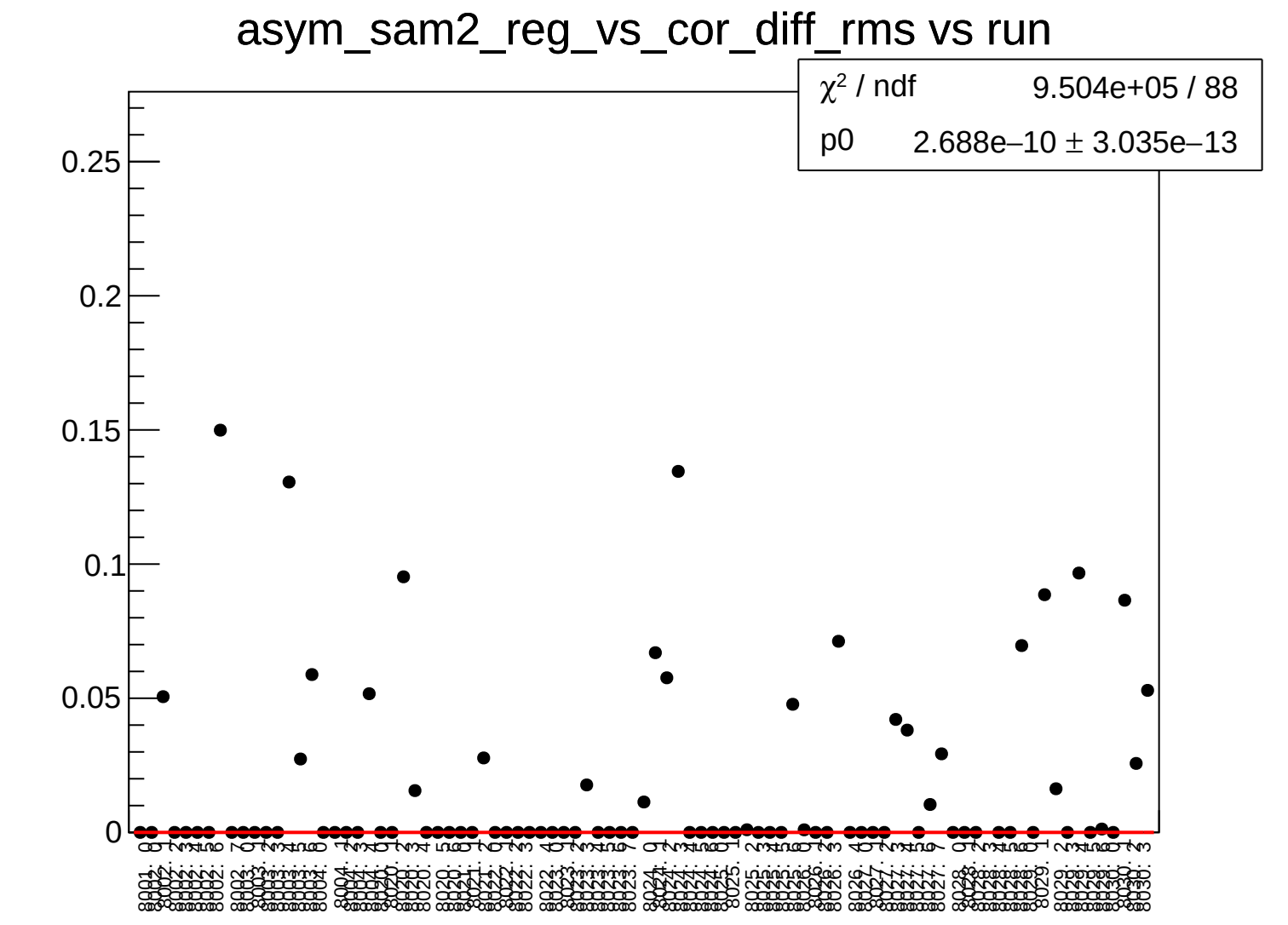

asym_sam2_mean vs run
×10^3
χ² / ndf 87.76 / 88
p0 −214.1± 4308
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean 125.4
Std Dev 0
2
1
0
−1
−2
−3

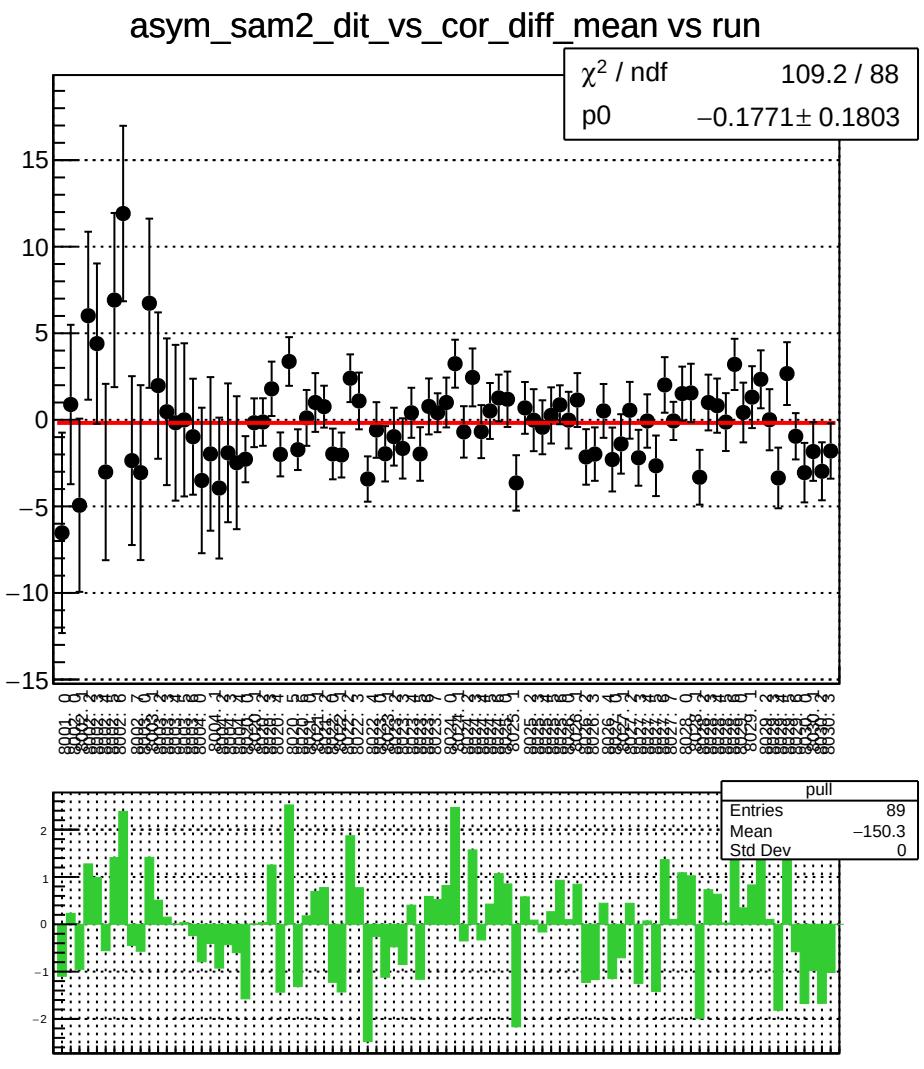

pull1D
Entries 89
Mean −0.01815
Std Dev 0.9928
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

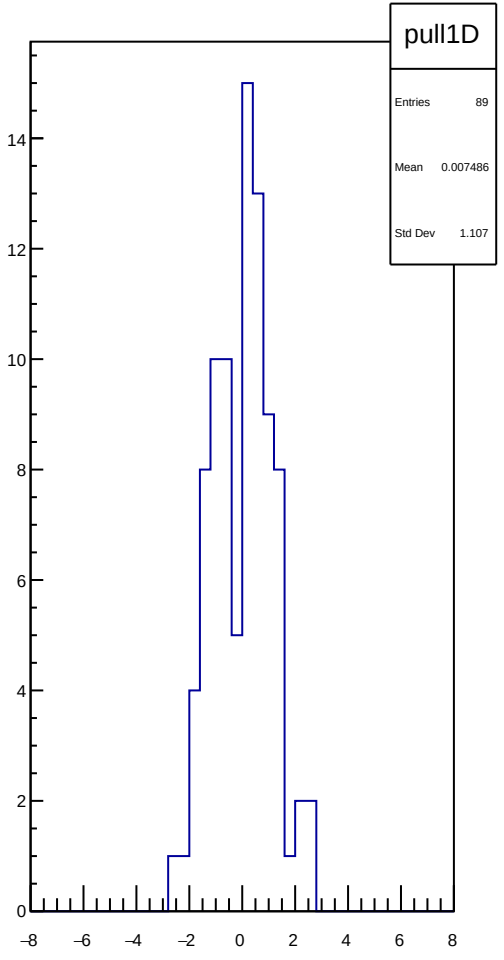

asym_sam2_rms vs run
χ² / ndf 1.05e+04 / 88
p0 4000 ± 3.047
5000
4800
4600
4400
4200
4000
3800
3600
3400

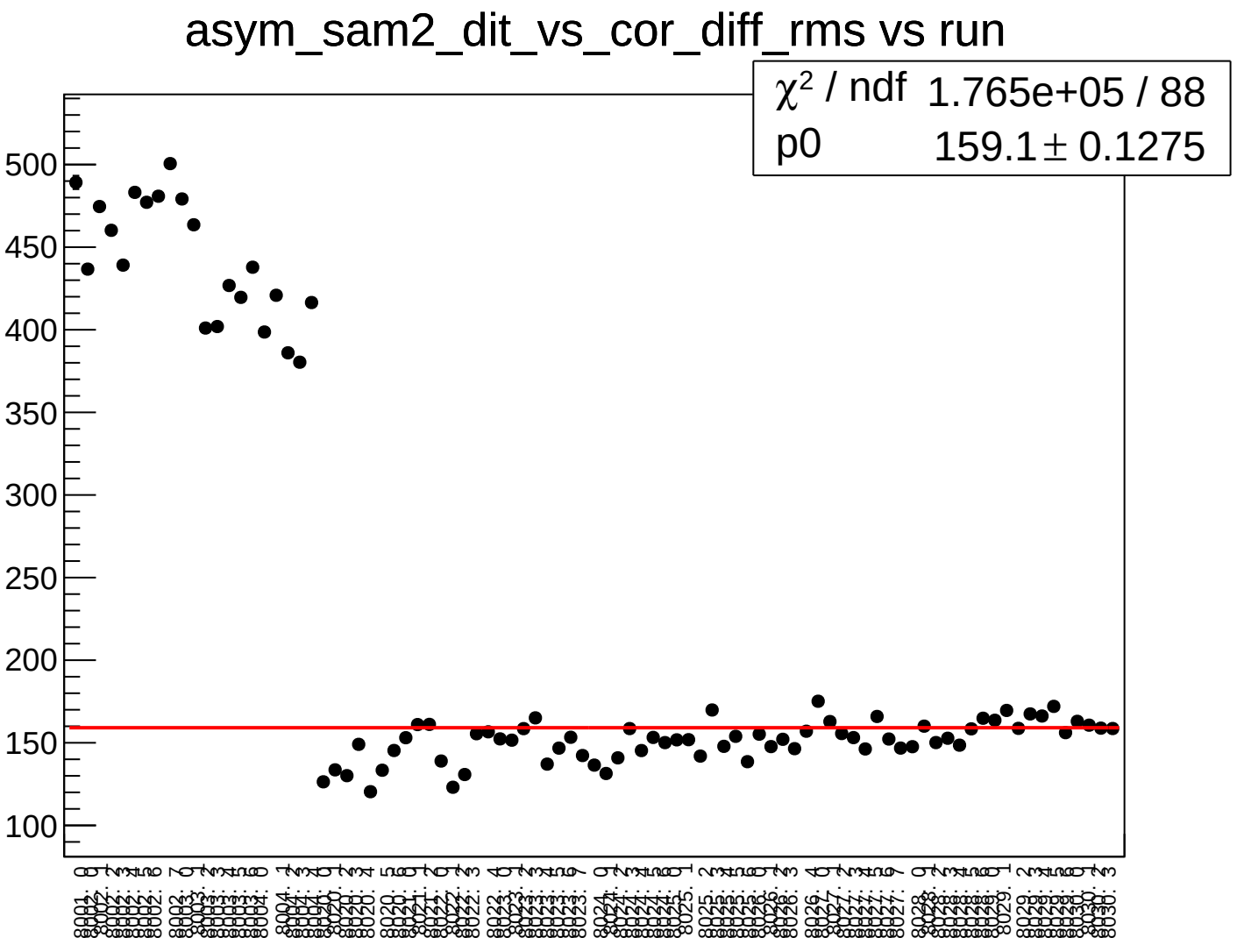

asym_sam2_reg_vs_cor_diff_mean vs run
χ² / ndf 86.82 / 88
p0 1.782e−13 ± 4.293e−13
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
pull
Entries 89
Mean 33.68
Std Dev 25.96
2
1
0
−1
−2

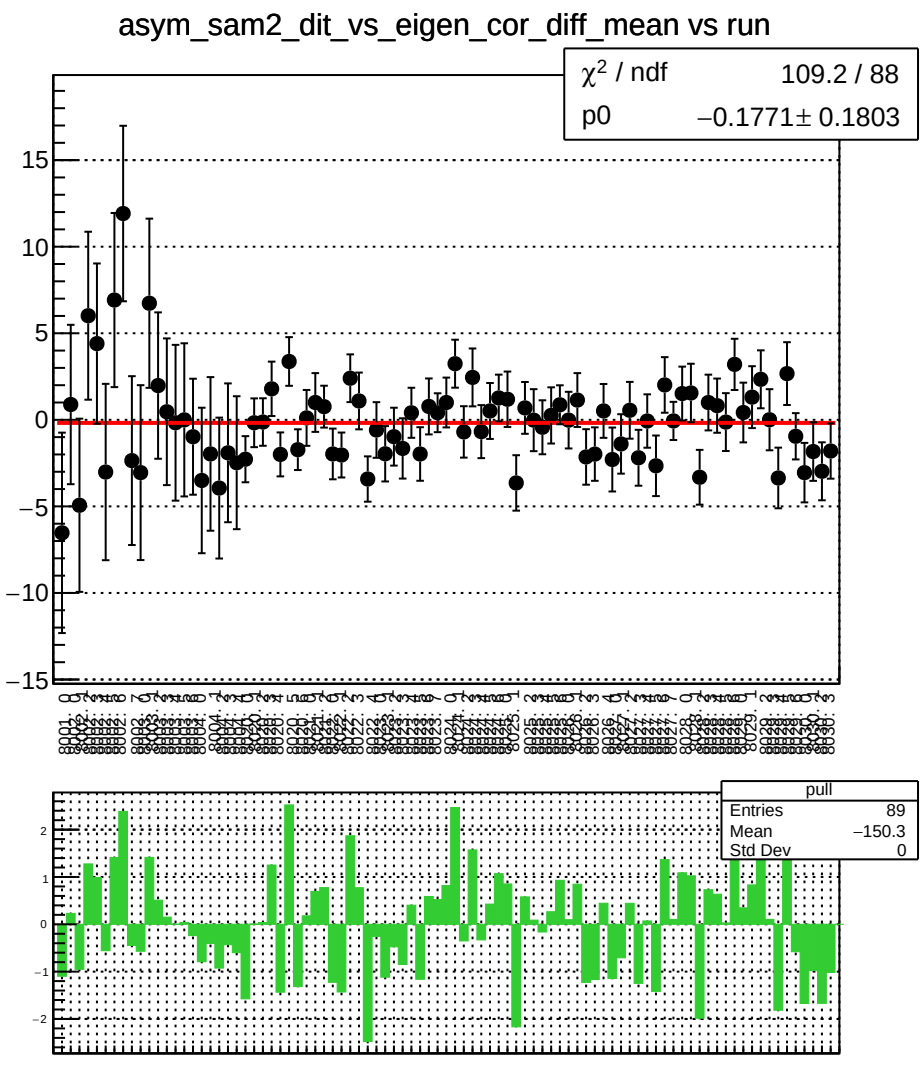

pull1D
Entries 89
Mean 0.0641
Std Dev 0.9856
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

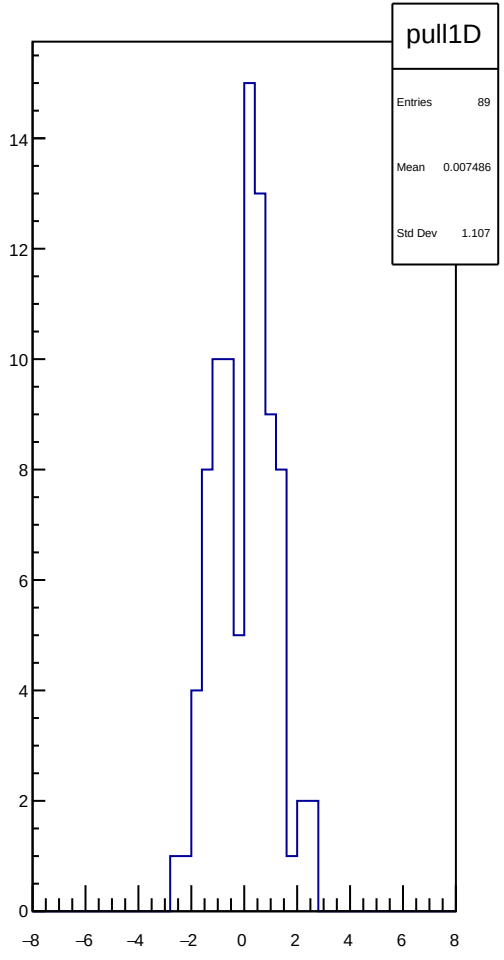

asym_sam2_reg_vs_cor_diff_rms vs run
χ² / ndf 9.504e+05 / 88
p0 2.688e−10 ± 3.035e−13
0.25
0.2
0.15
0.1
0.05
0

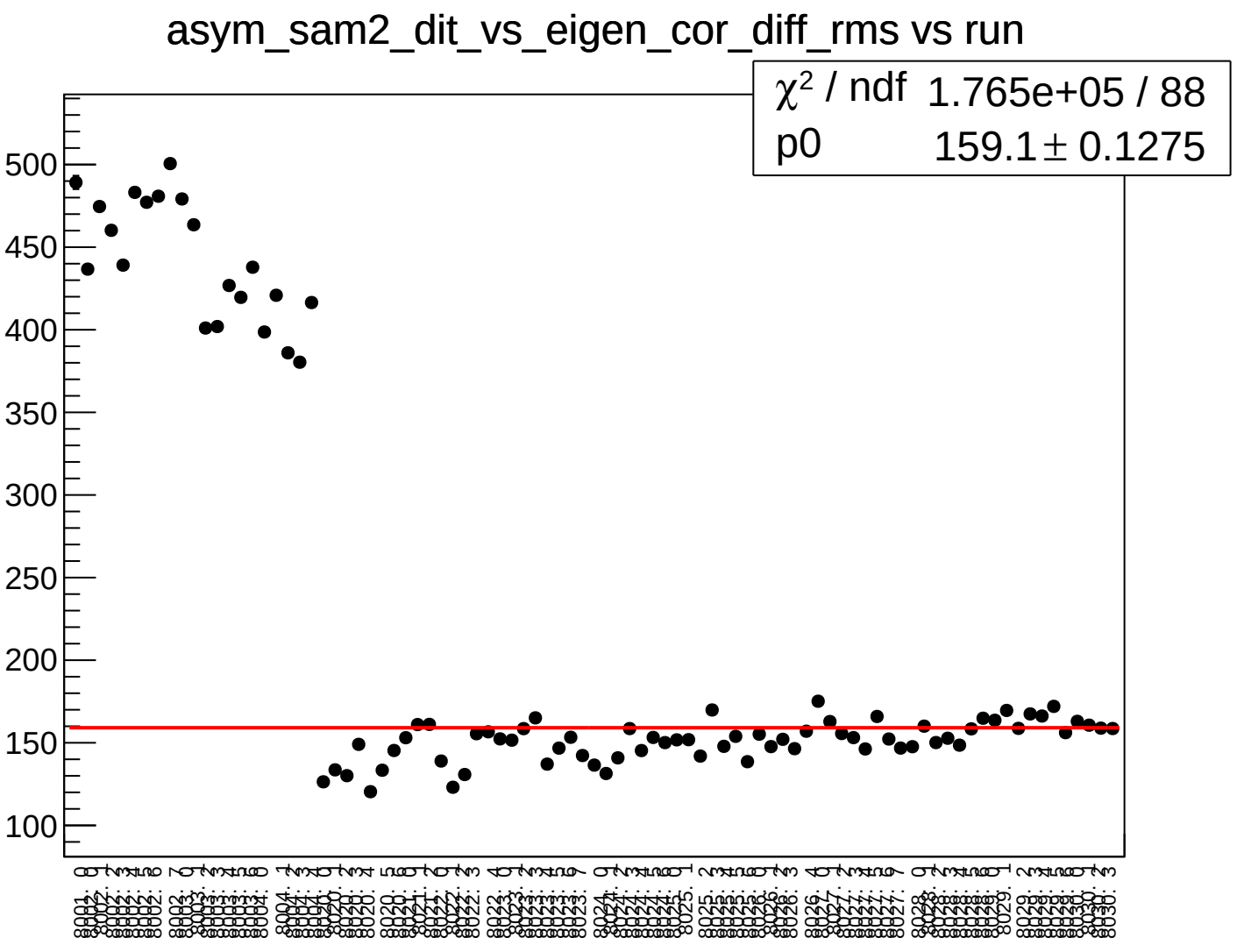

asym_sam2_dit_vs_cor_diff_mean vs run
χ² / ndf 109.2 / 88
p0 −0.1771± 0.1803
pull
Entries 89
Mean −150.3
Std Dev 0

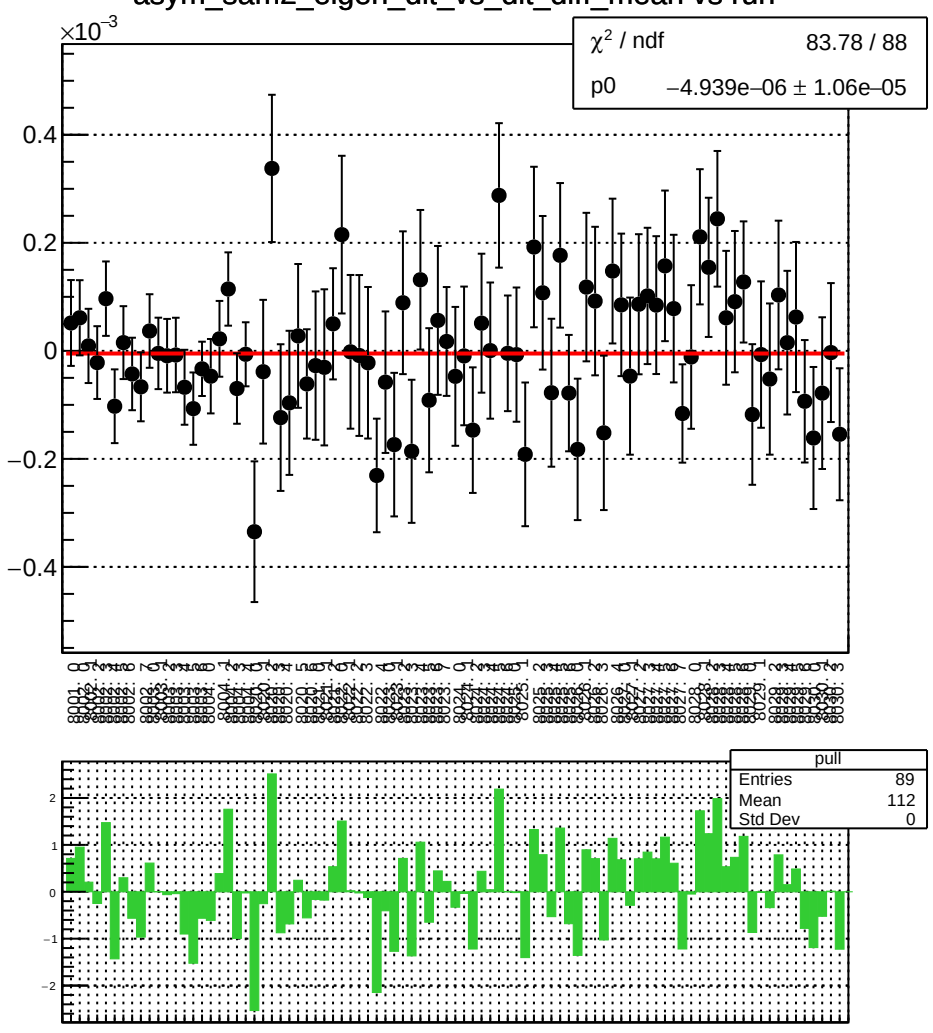

pull1D
Entries 89
Mean 0.007486
Std Dev 1.107

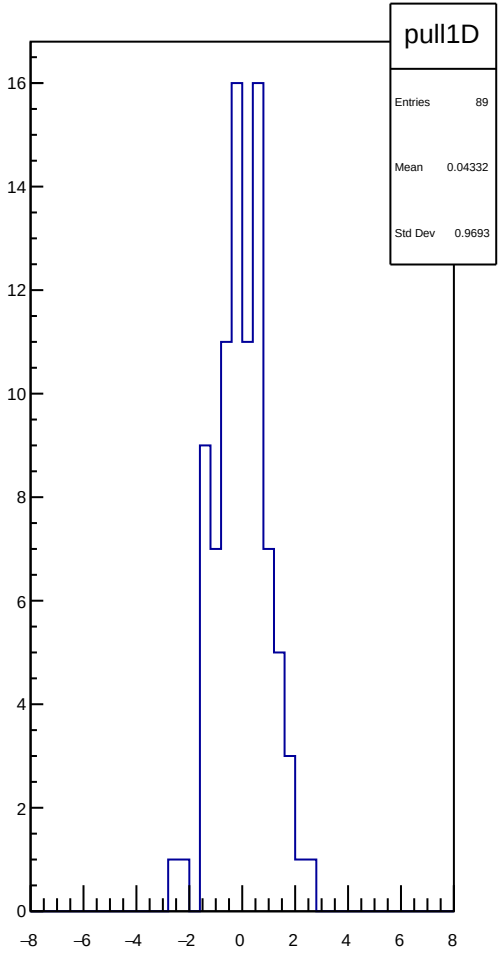

asym_sam2_dit_vs_cor_diff_rms vs run
χ² / ndf 1.765e+05 / 88
p0 159.1 ± 0.1275
500
450
400
350
300
250
200
150
100

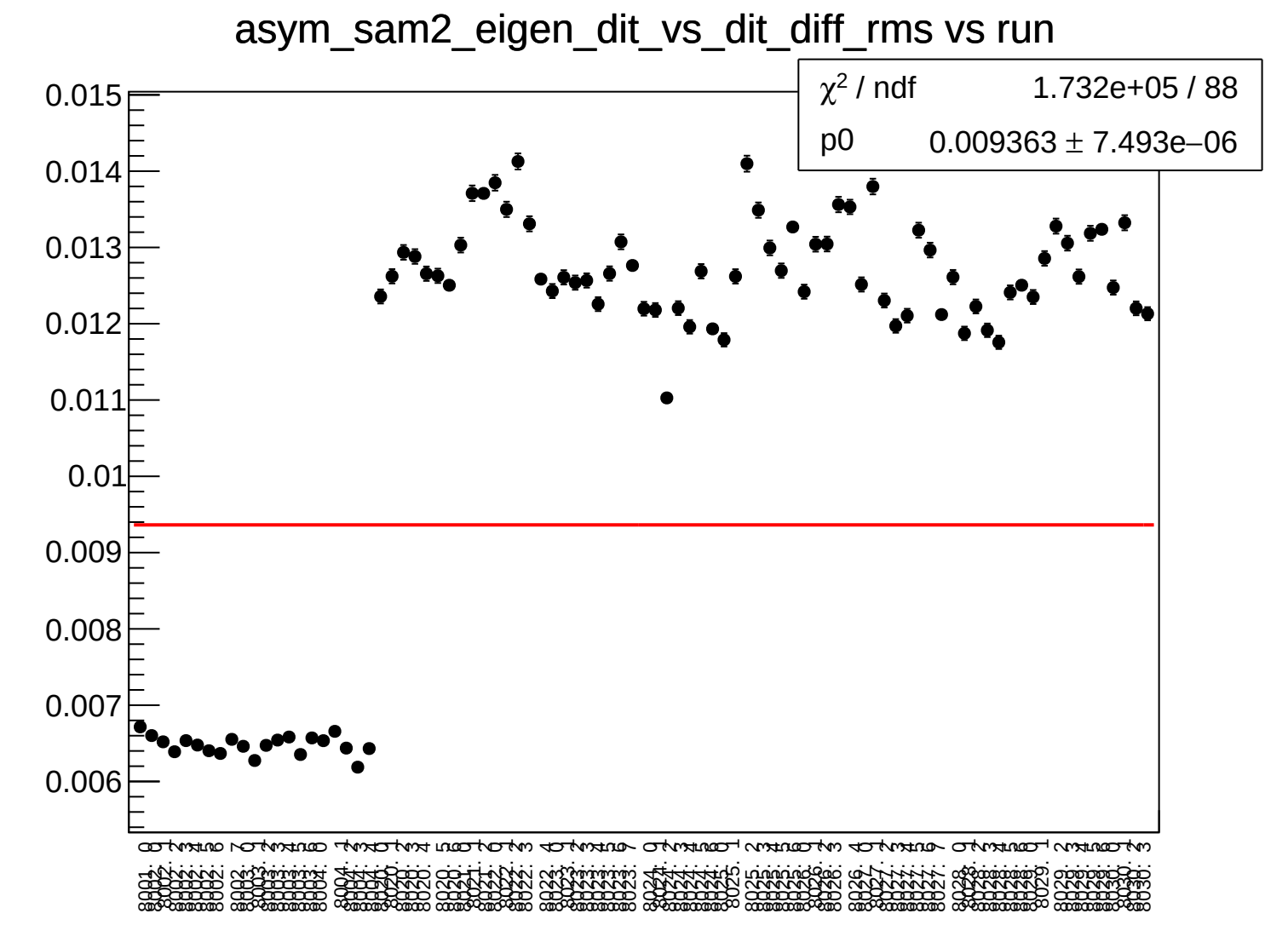

asym_sam2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.2 / 88
p0 −0.1771± 0.1803
pull
Entries 89
Mean −150.3
Std Dev 0

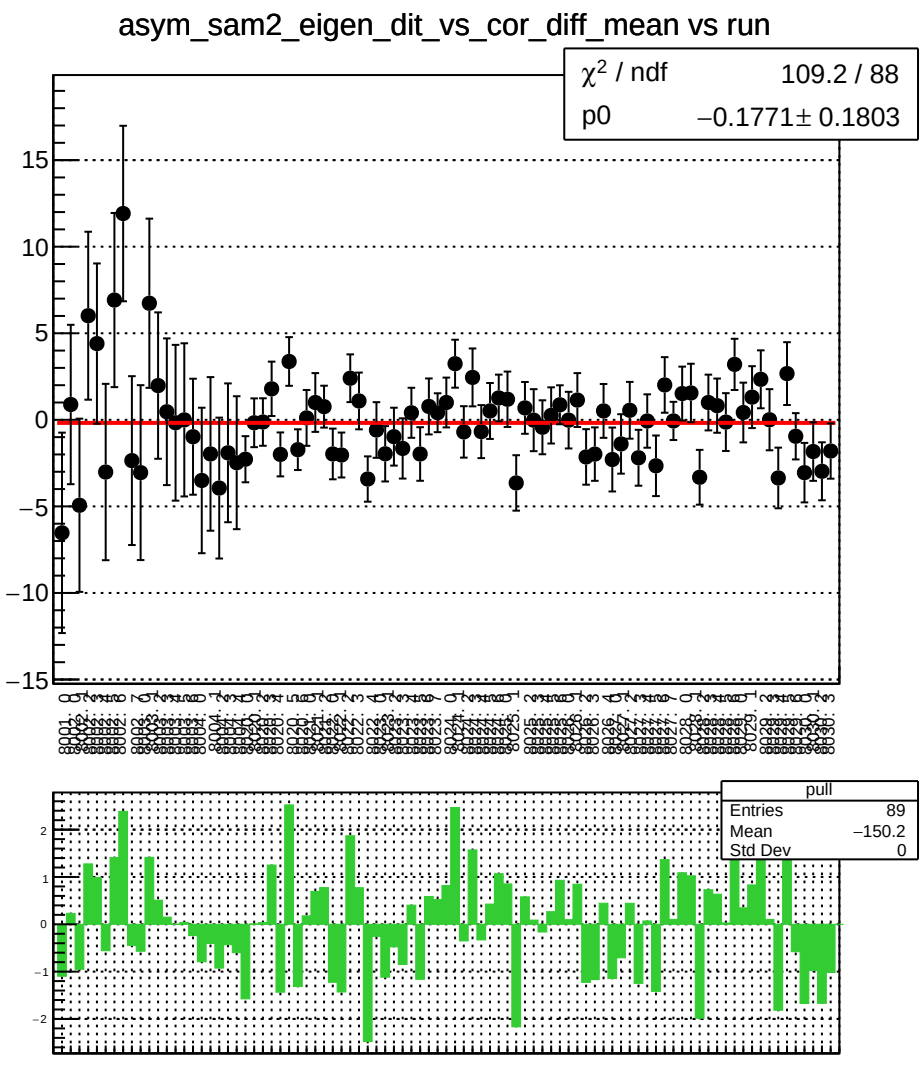

pull1D
Entries 89
Mean 0.007486
Std Dev 1.107

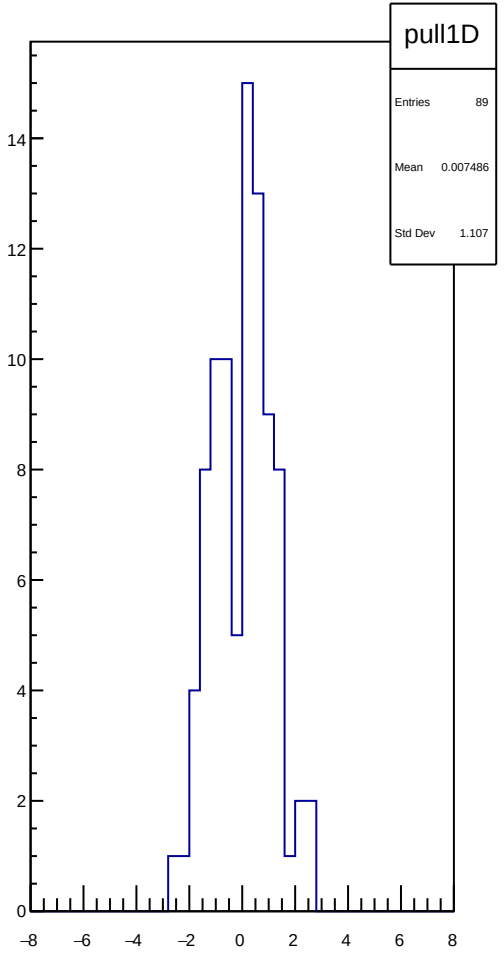

asym_sam2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.765e+05 / 88
p0 159.1 ± 0.1275
500
450
400
350
300
250
200
150
100

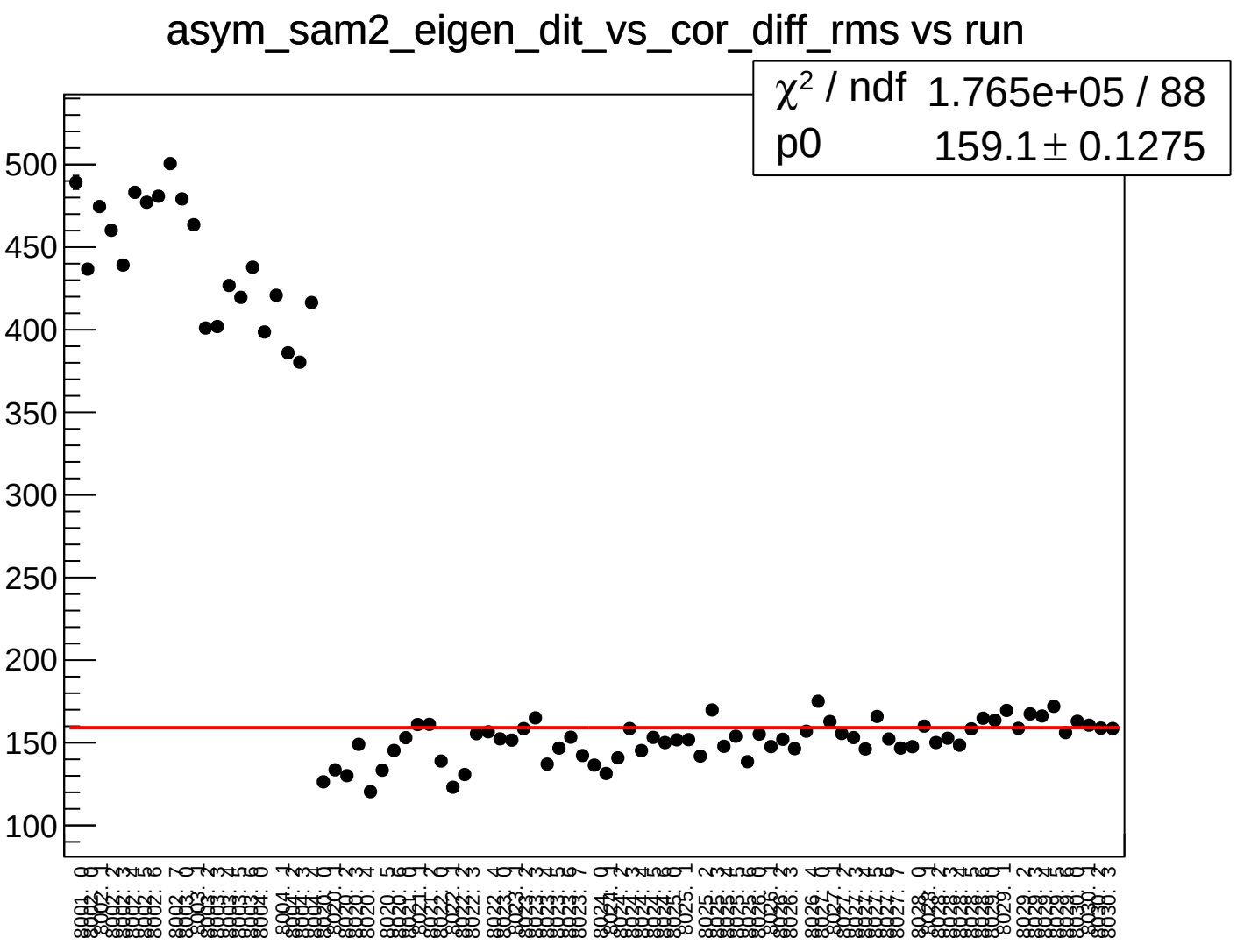

asym_sam2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83.78 / 88
p0 −4.939e−06 ± 1.06e−05
0.4
0.2
0
−0.2
−0.4
pull
Entries 89
Mean 112
Std Dev 0
2
1
0
−1
−2

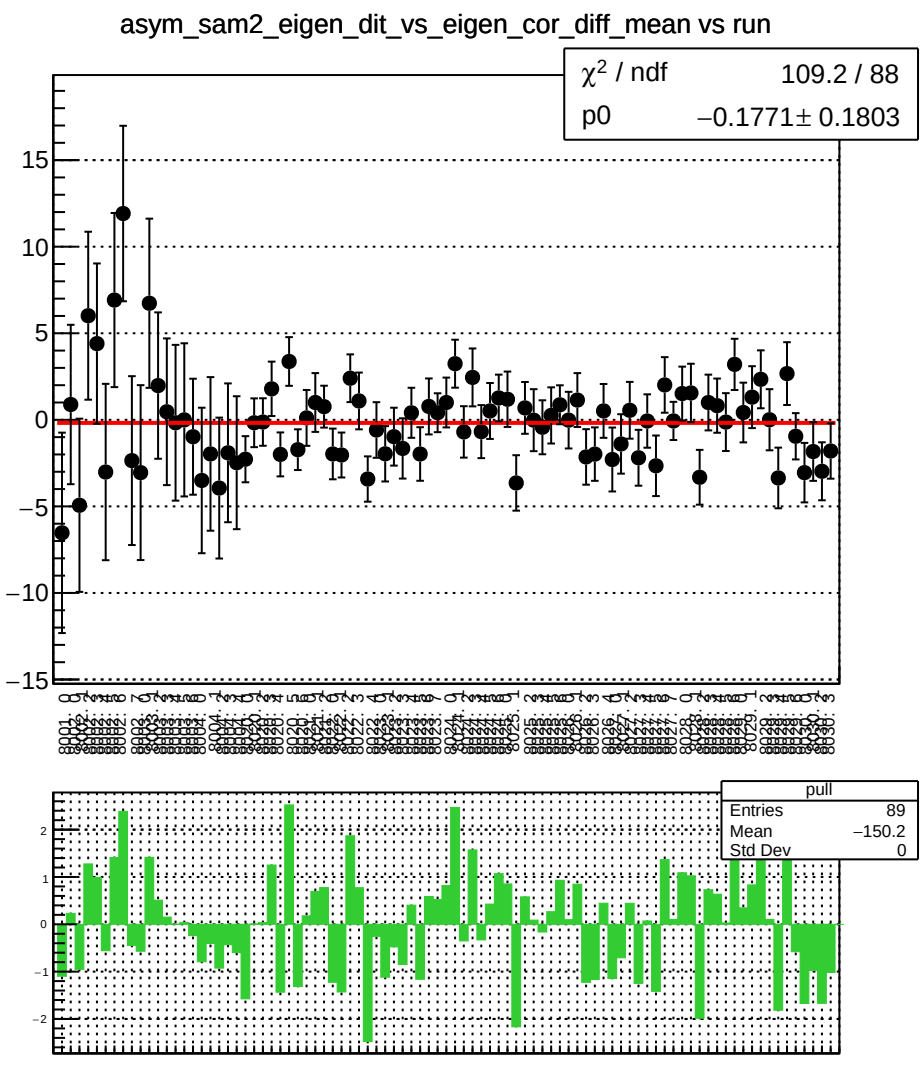

pull1D
Entries 89
Mean 0.04332
Std Dev 0.9693
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

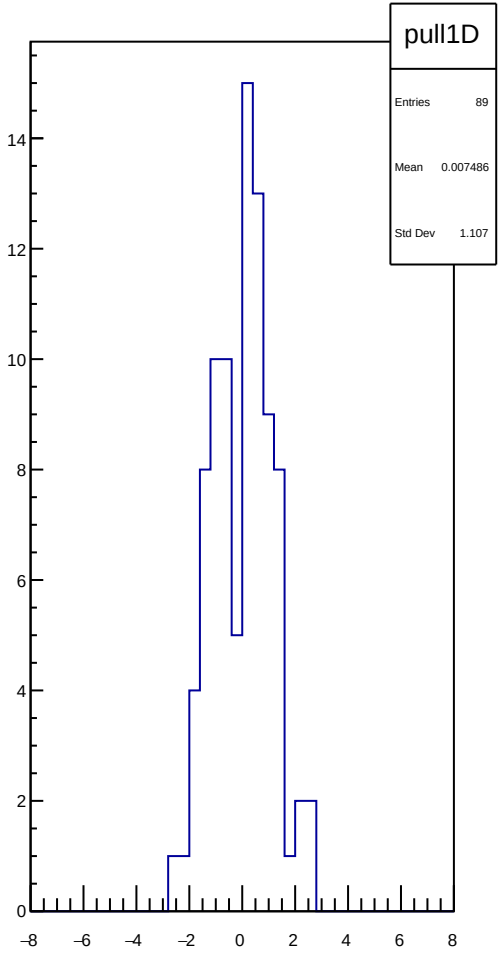

asym_sam2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.732e+05 / 88
p0 0.009363 ± 7.493e−06
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006

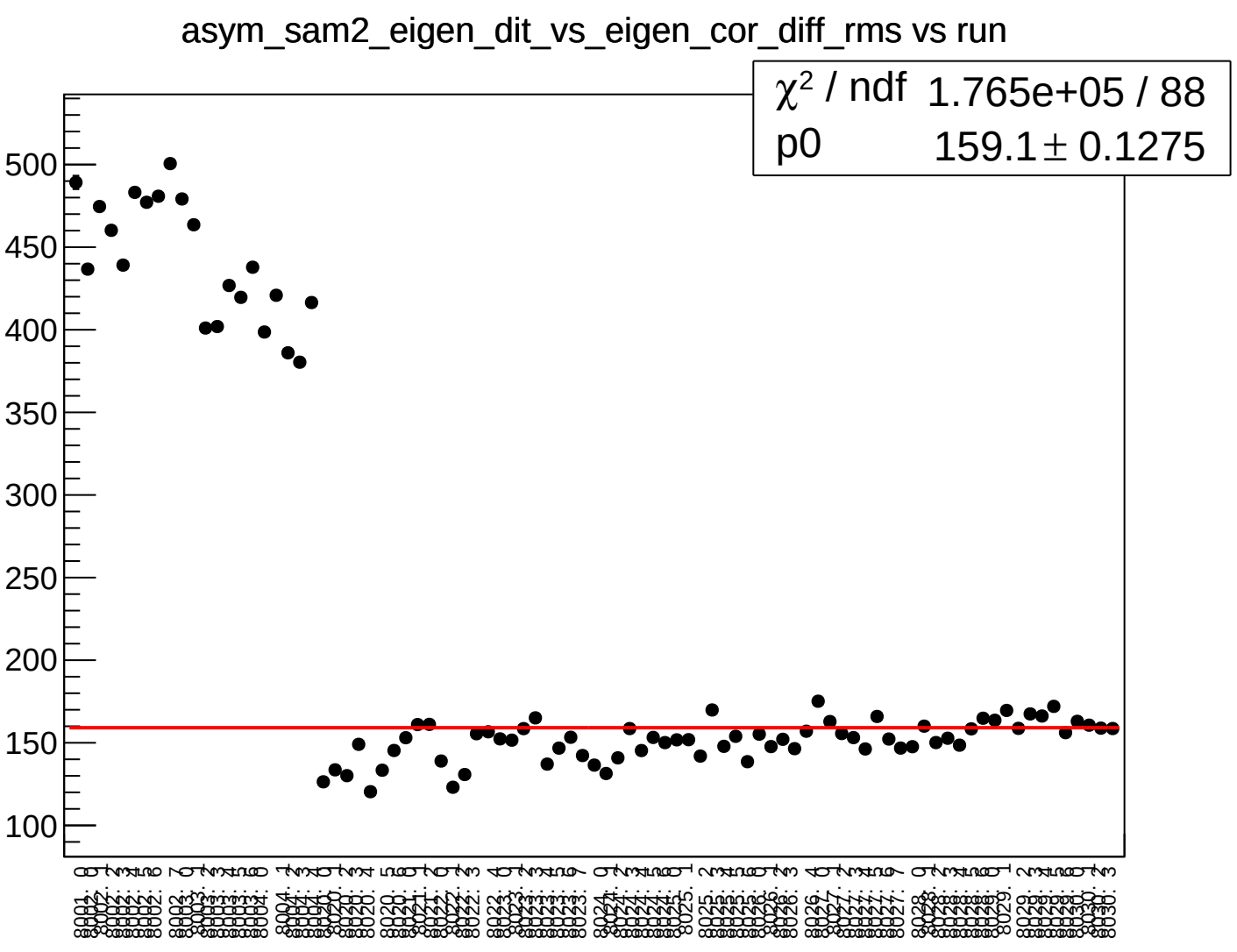

asym_sam2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 109.2 / 88
p0 −0.1771± 0.1803
pull
Entries 89
Mean −150.2
Std Dev 0

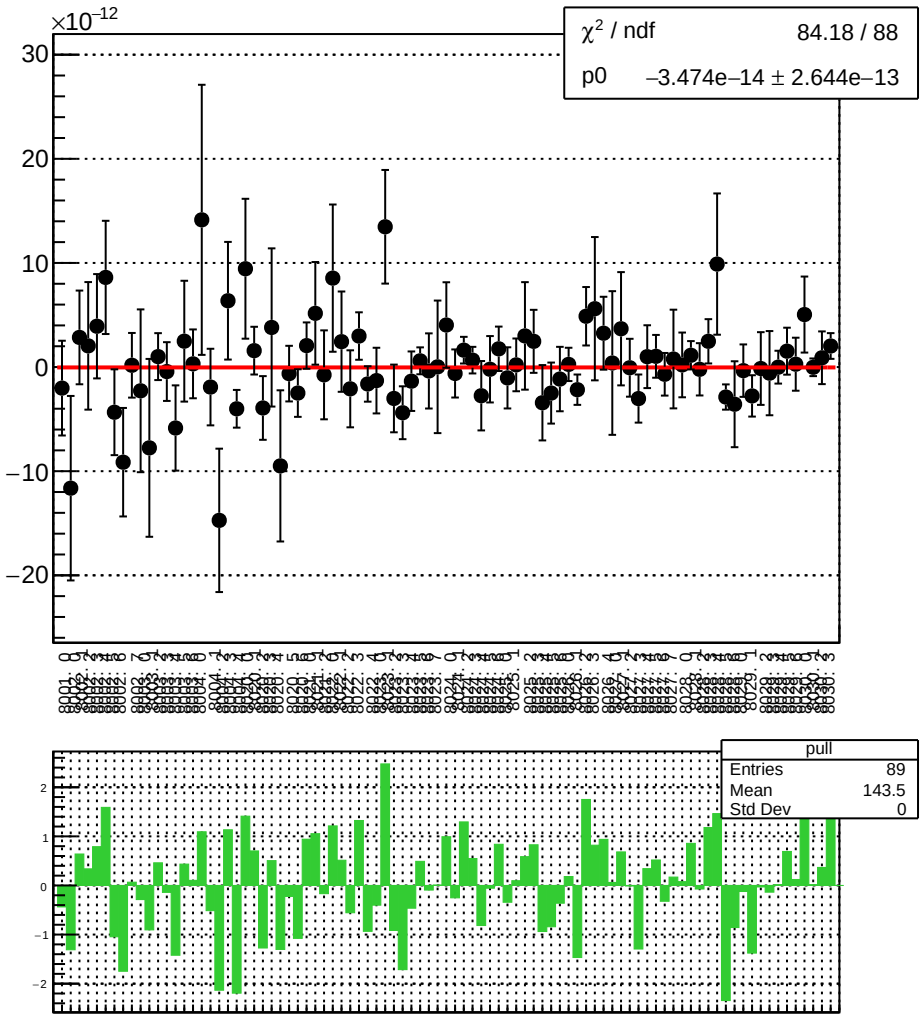

pull1D
Entries 89
Mean 0.007486
Std Dev 1.107

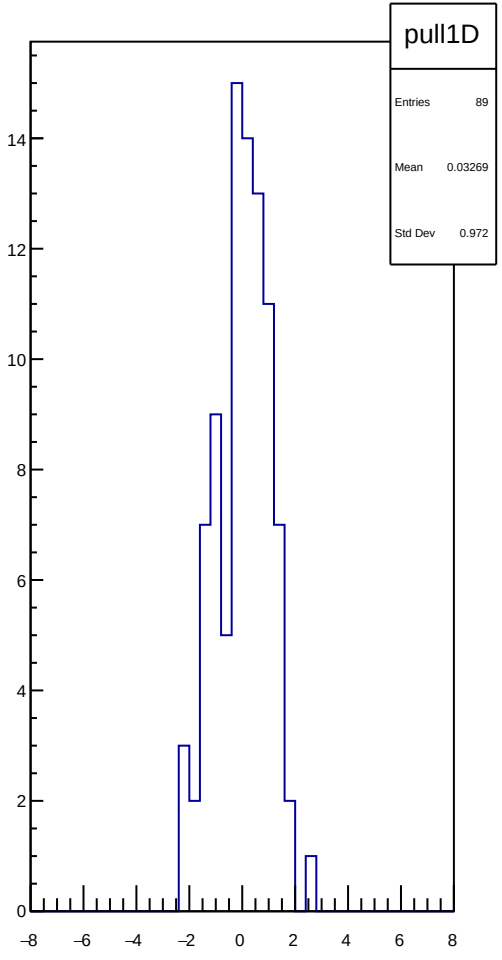

asym_sam2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.765e+05 / 88
p0 159.1 ± 0.1275
500
450
400
350
300
250
200
150
100

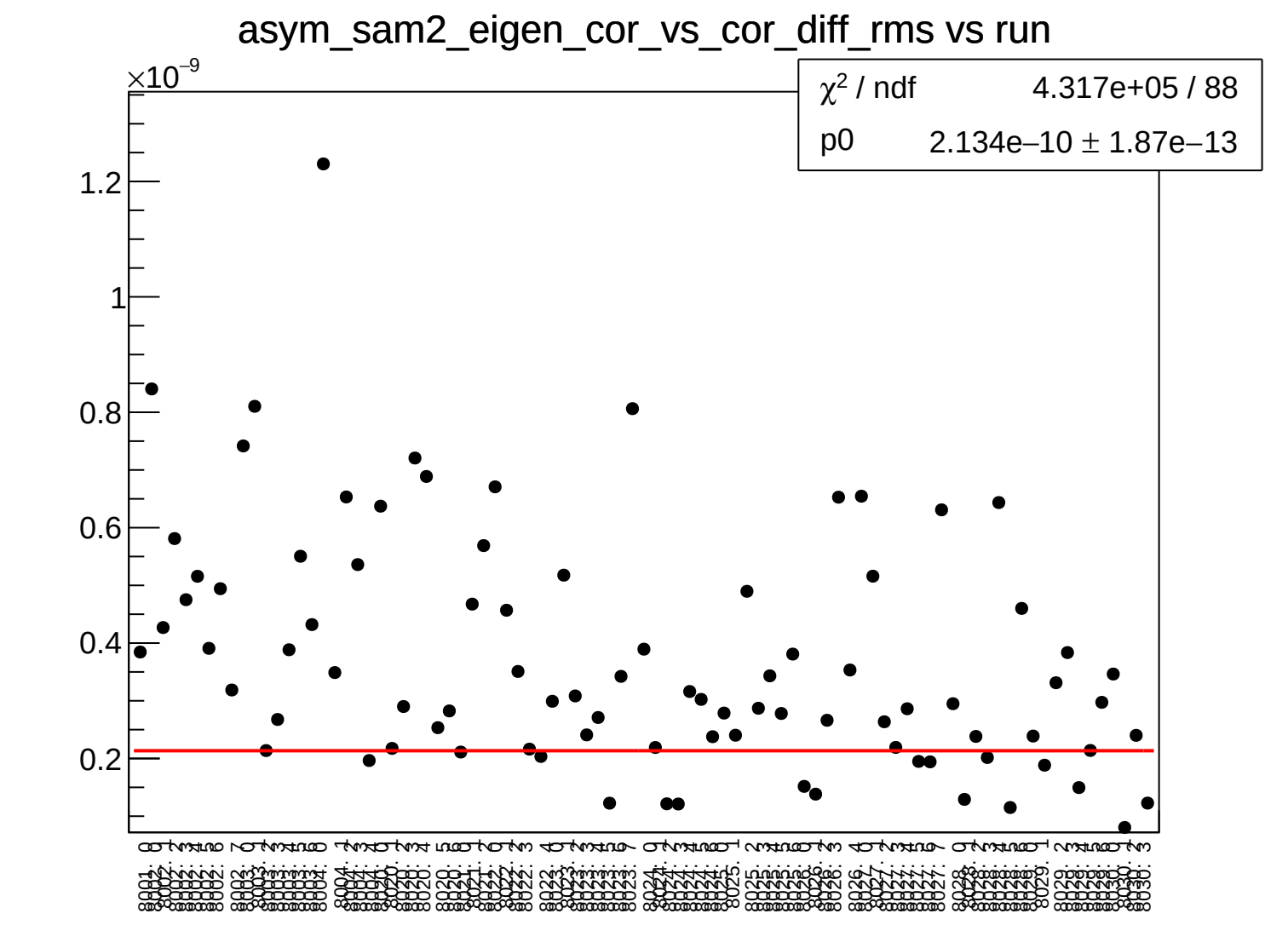

asym_sam2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.2 / 88
p0 −0.1771± 0.1803
pull
Entries 89
Mean −150.2
Std Dev 0

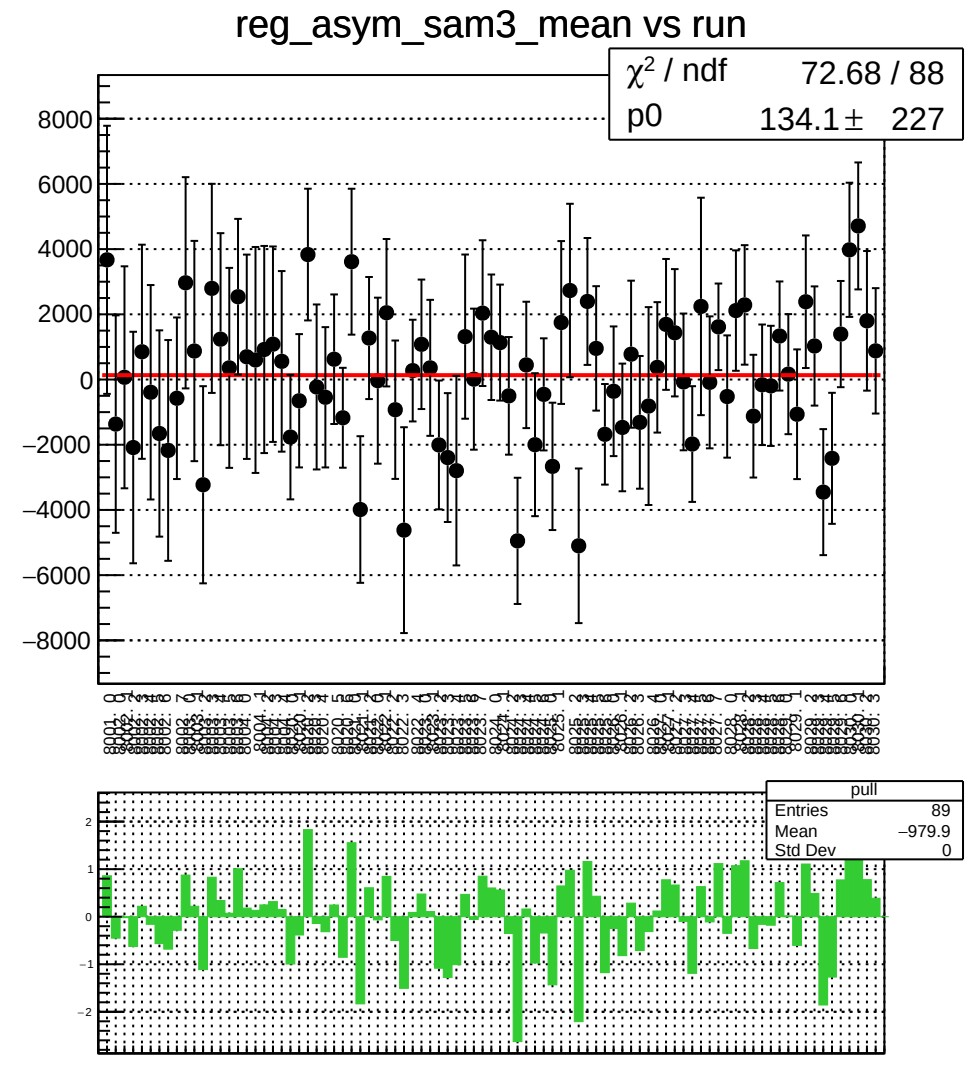

pull1D
Entries 89
Mean 0.007486
Std Dev 1.107

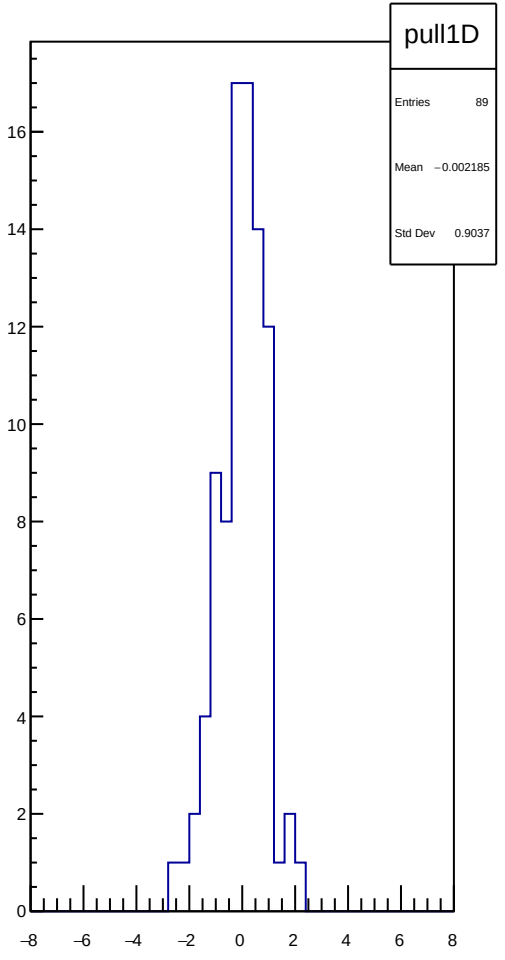

asym_sam2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.765e+05 / 88
p0 159.1 ± 0.1275
500
450
400
350
300
250
200
150
100

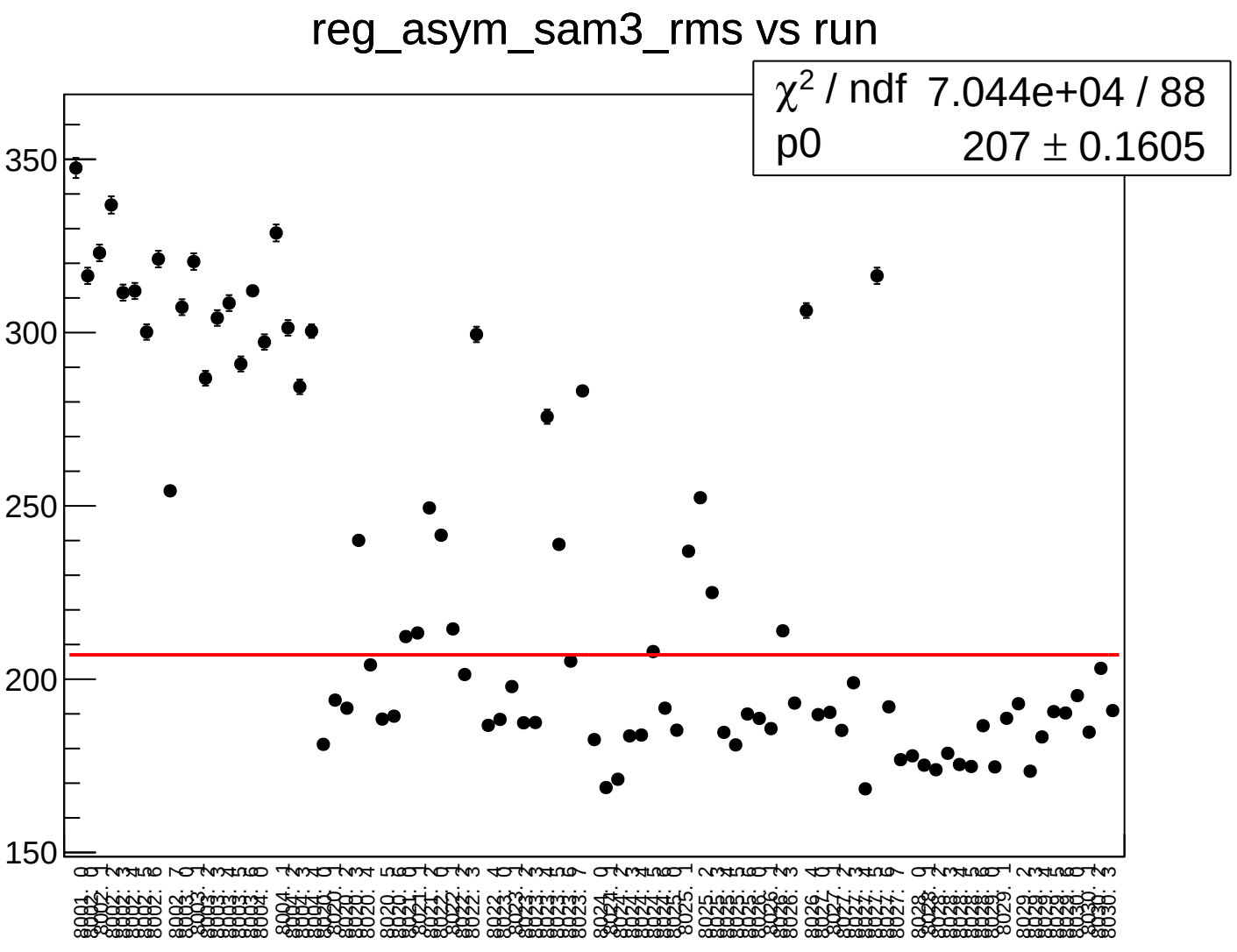

asym_sam2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.18 / 88
p0 −3.474e−14 ± 2.644e−13
pull
Entries 89
Mean 143.5
Std Dev 0

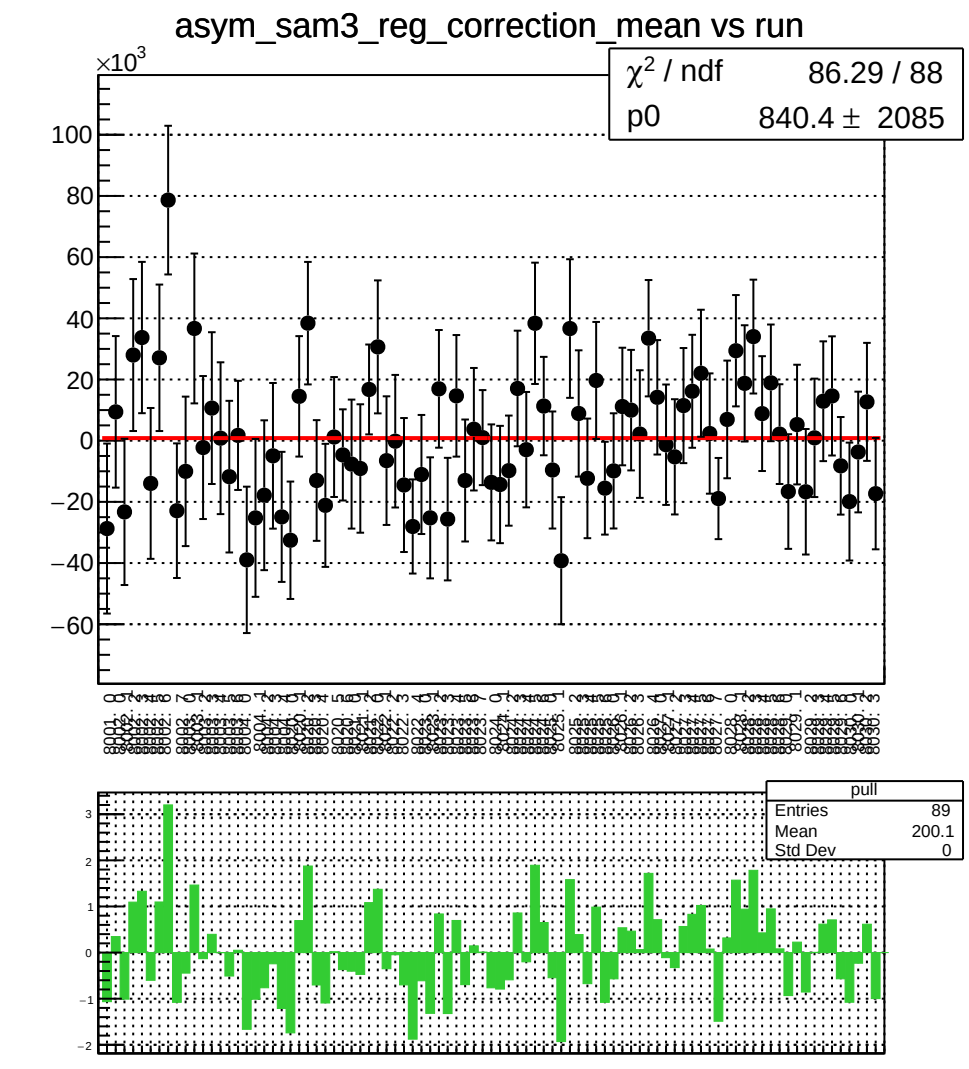

pull1D
Entries 89
Mean 0.03269
Std Dev 0.972

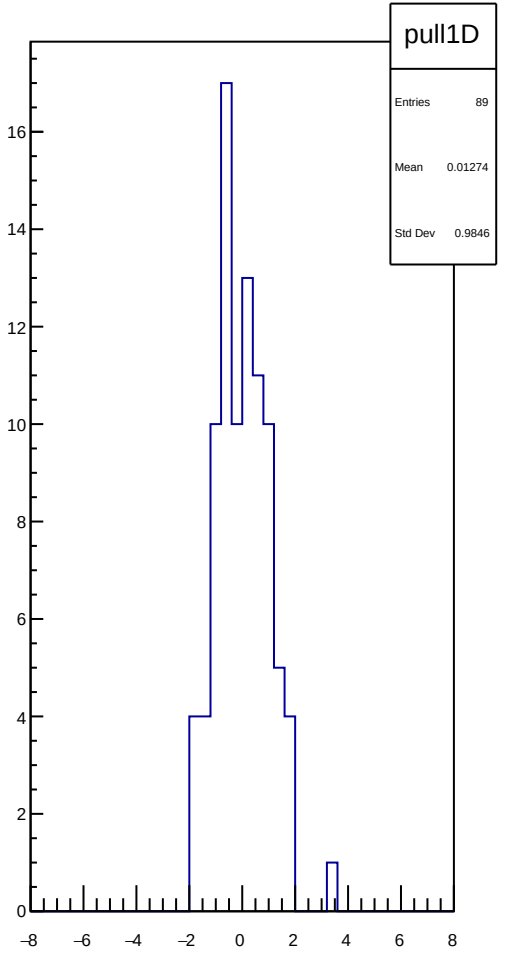

asym_sam2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.317e+05 / 88
p0 2.134e−10 ± 1.87e−13
1.2
1
0.8
0.6
0.4
0.2

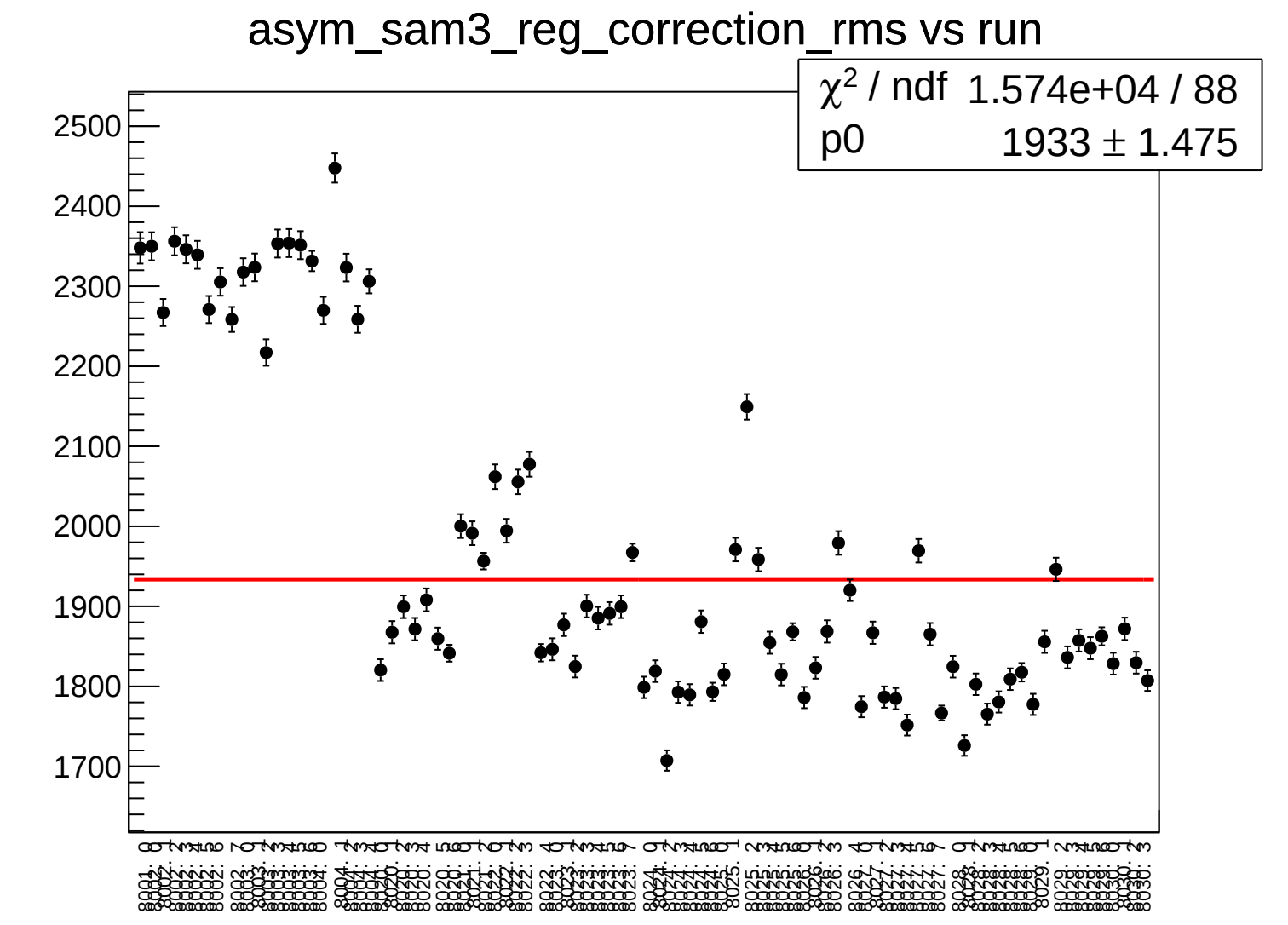

reg_asym_sam3_mean vs run
χ² / ndf 72.68 / 88
p0 134.1 ± 227
pull
Entries 89
Mean −979.9
Std Dev 0

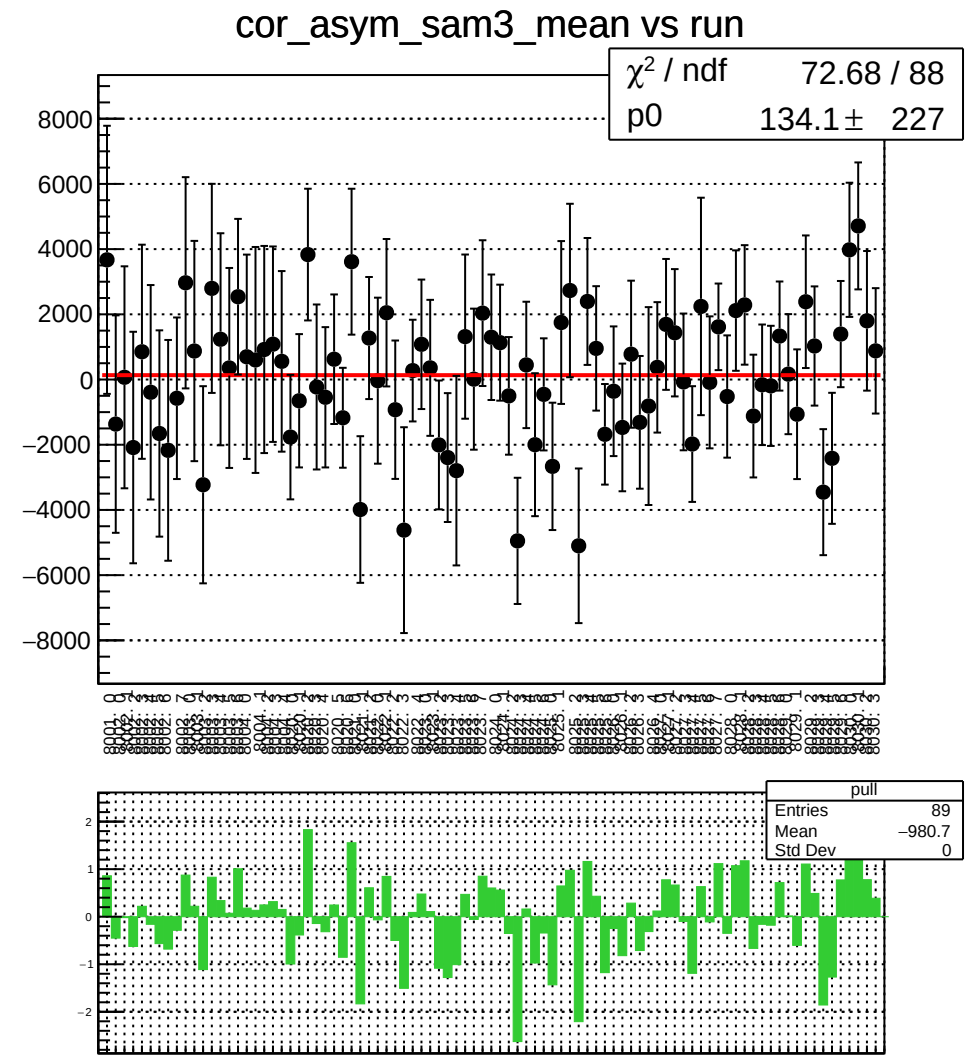

pull1D
Entries 89
Mean −0.002185
Std Dev 0.9037

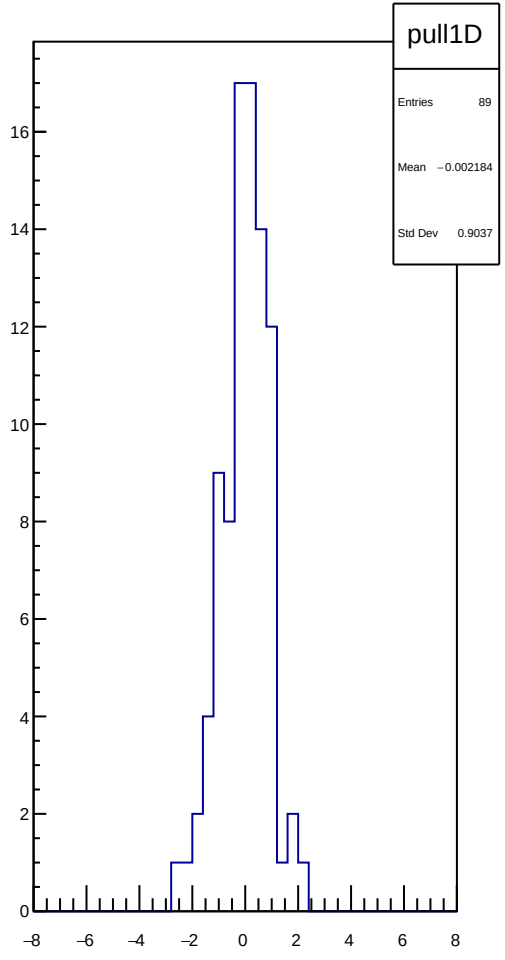

reg_asym_sam3_rms vs run
χ² / ndf 7.044e+04 / 88
p0 207 ± 0.1605
350
300
250
200
150

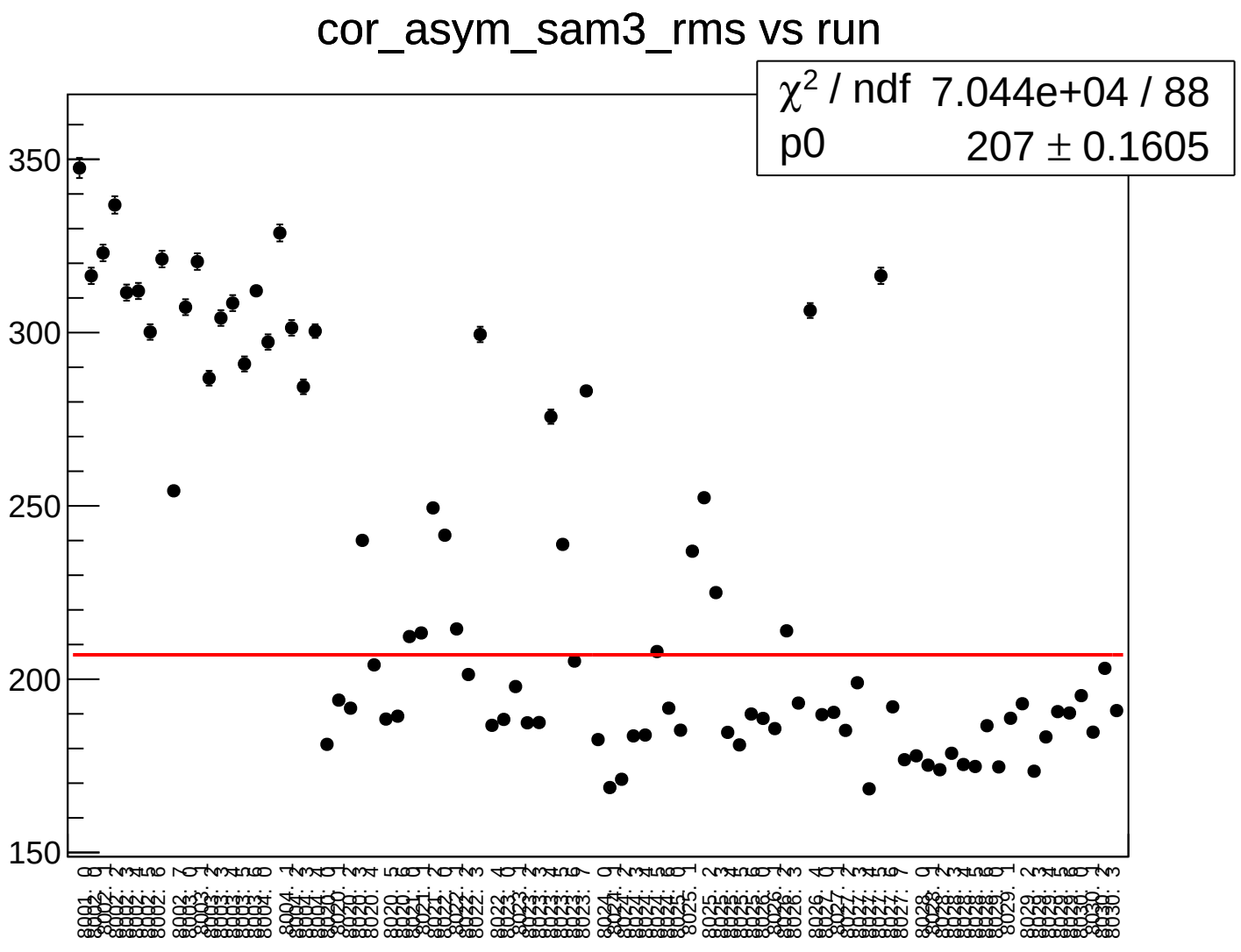

asym_sam3_reg_correction_mean vs run
χ² / ndf 86.29 / 88
p0 840.4 ± 2085
×10³
pull
Entries 89
Mean 200.1
Std Dev 0

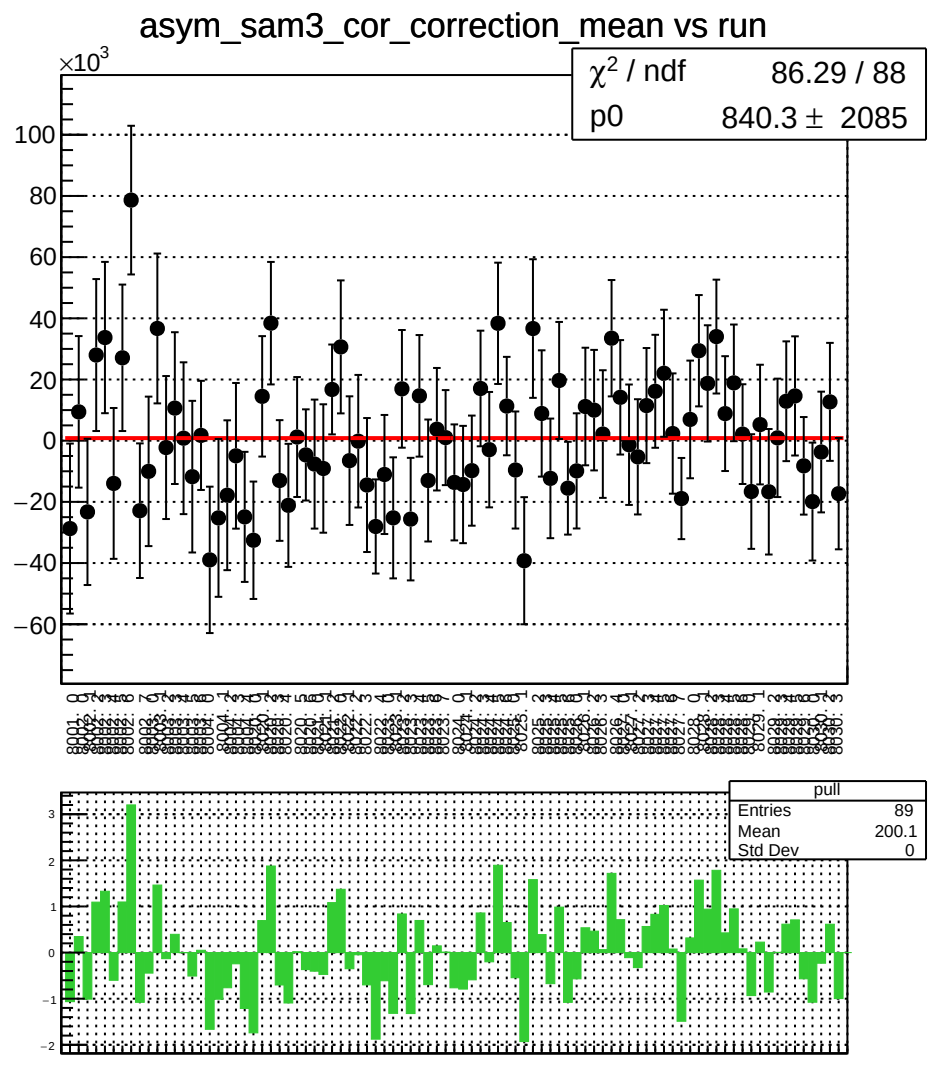

pull1D
Entries 89
Mean 0.01274
Std Dev 0.9846

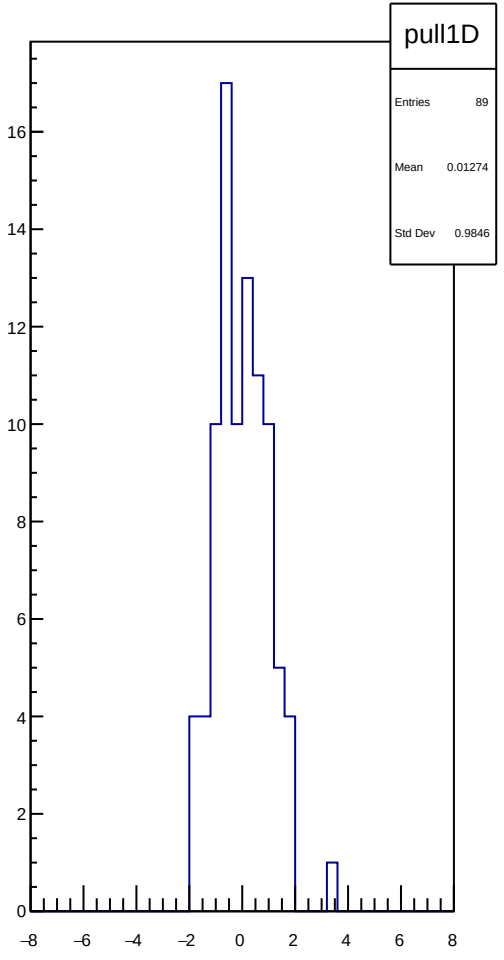

asym_sam3_reg_correction_rms vs run
χ² / ndf 1.574e+04 / 88
p0 1933 ± 1.475
2500
2400
2300
2200
2100
2000
1900
1800
1700

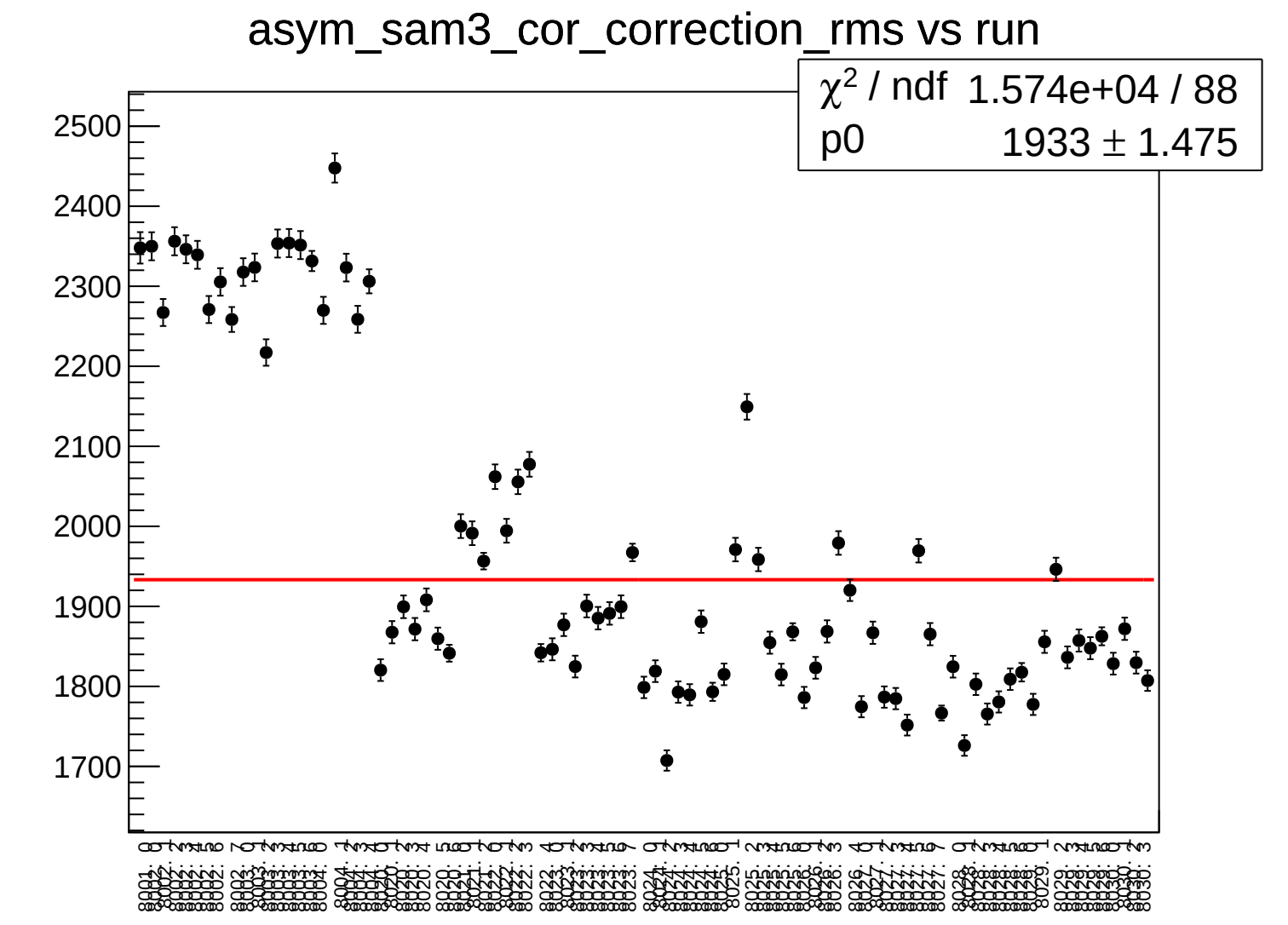

cor_asym_sam3_mean vs run
χ² / ndf 72.68 / 88
p0 134.1 ± 227
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 89
Mean −980.7
Std Dev 0
2
1
0
−1
−2

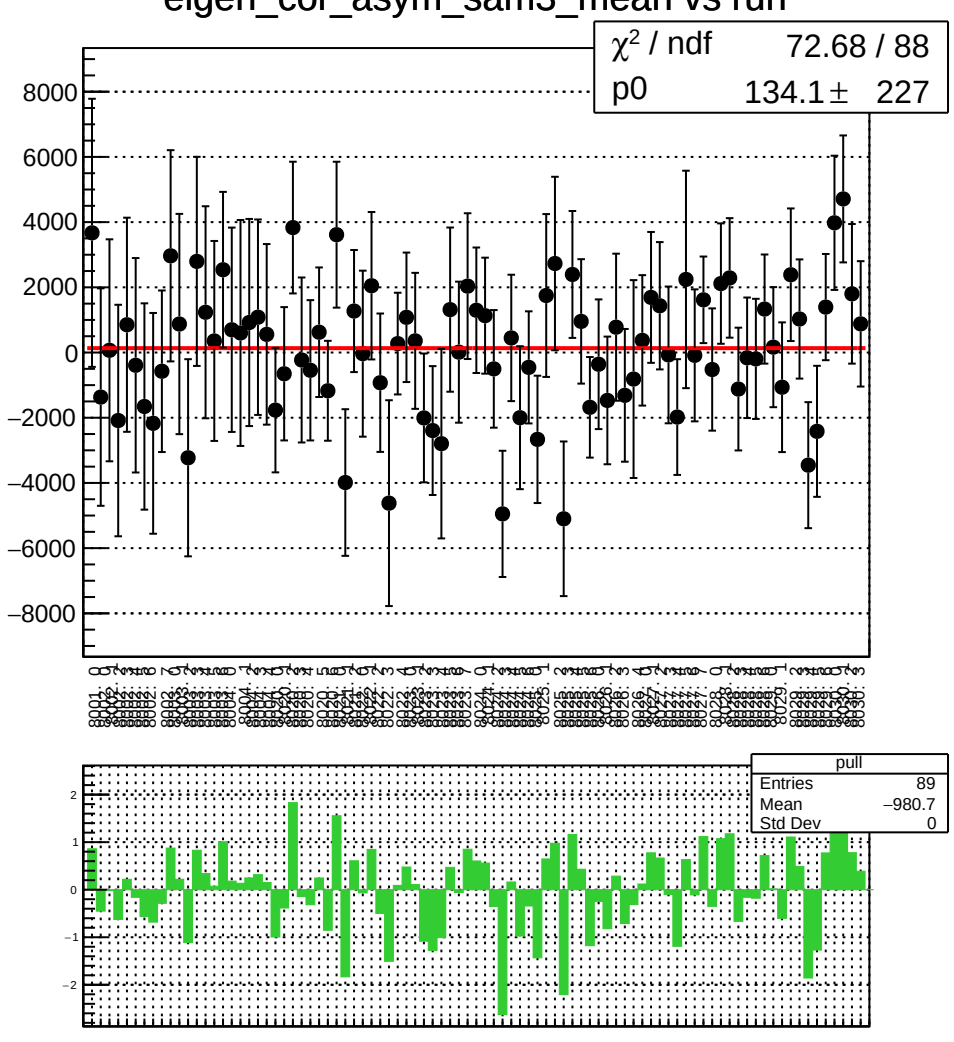

pull1D
Entries 89
Mean −0.002184
Std Dev 0.9037
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

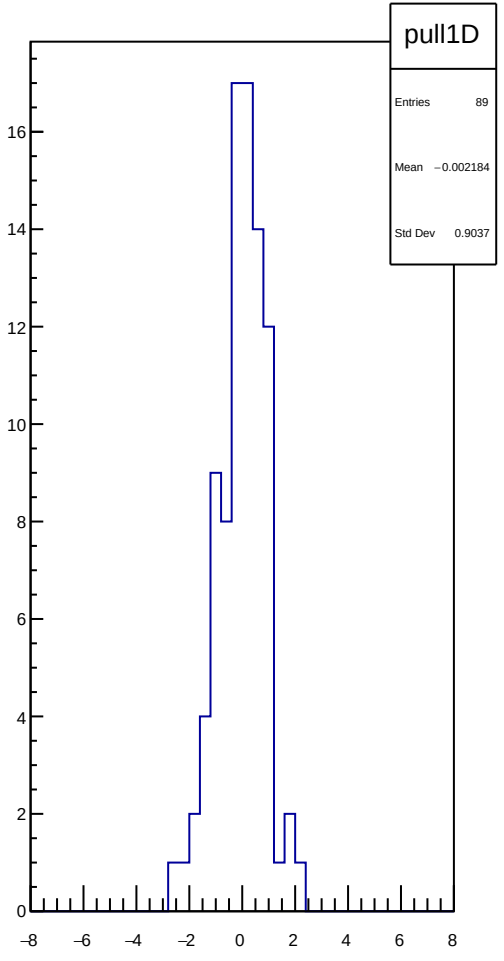

cor_asym_sam3_rms vs run
χ² / ndf 7.044e+04 / 88
p0 207 ± 0.1605
350
300
250
200
150

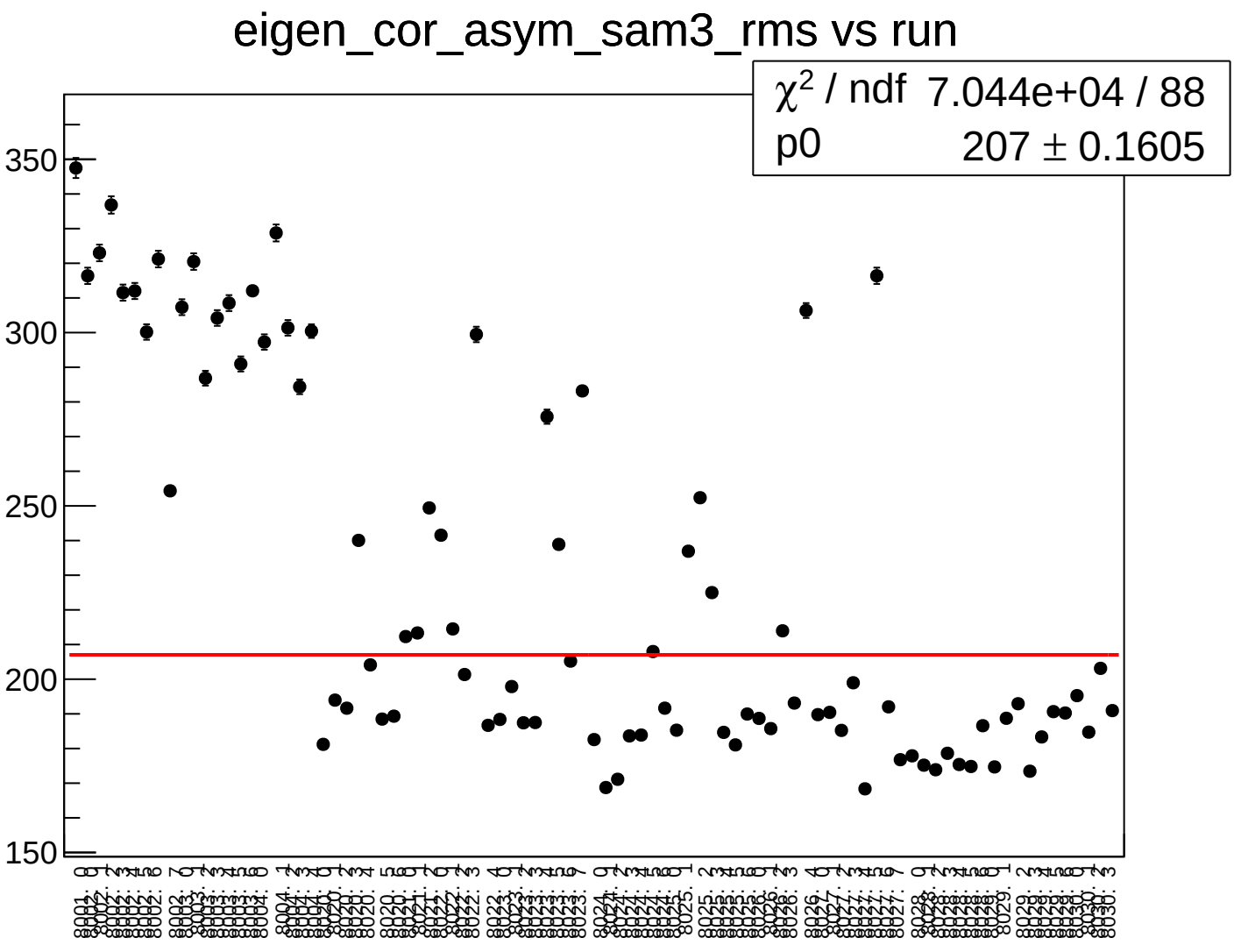

asym_sam3_cor_correction_mean vs run
×10^3
χ² / ndf 86.29 / 88
p0 840.3 ± 2085
pull
Entries 89
Mean 200.1
Std Dev 0

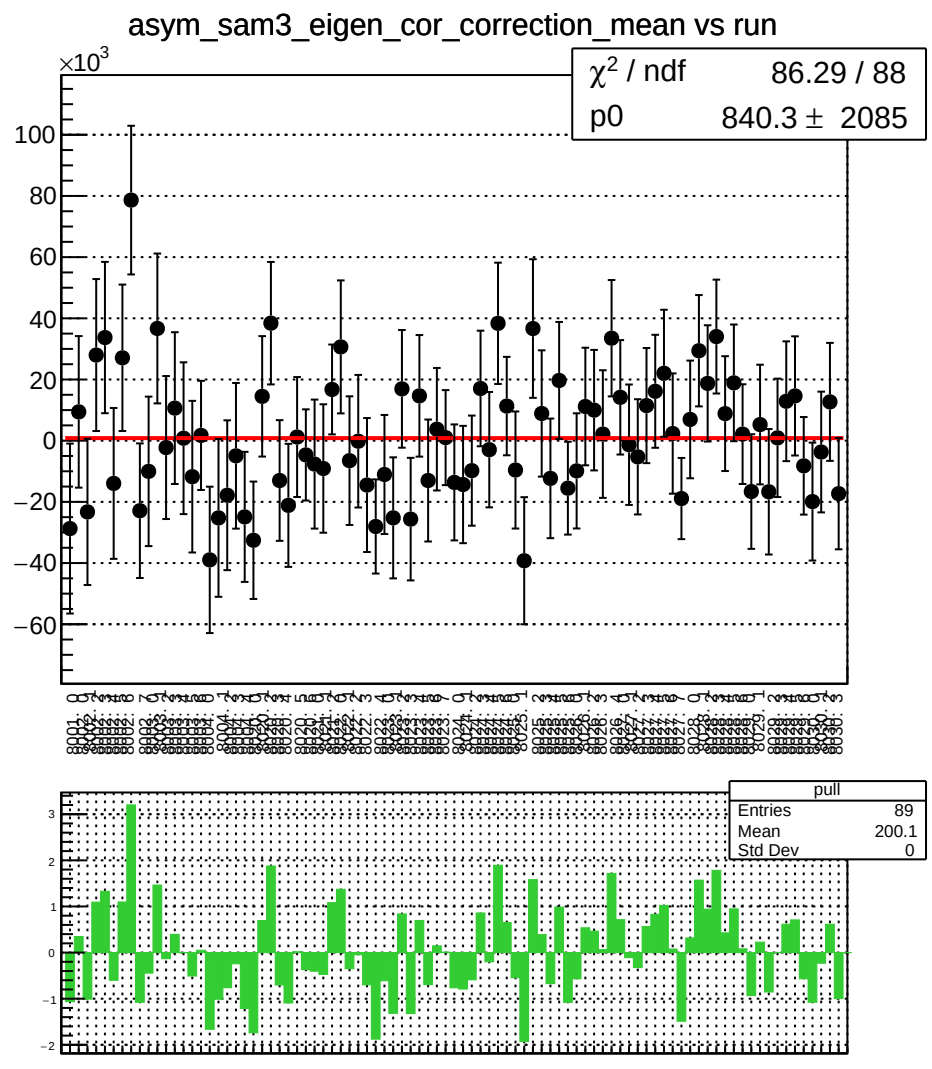

pull1D
Entries 89
Mean 0.01274
Std Dev 0.9846

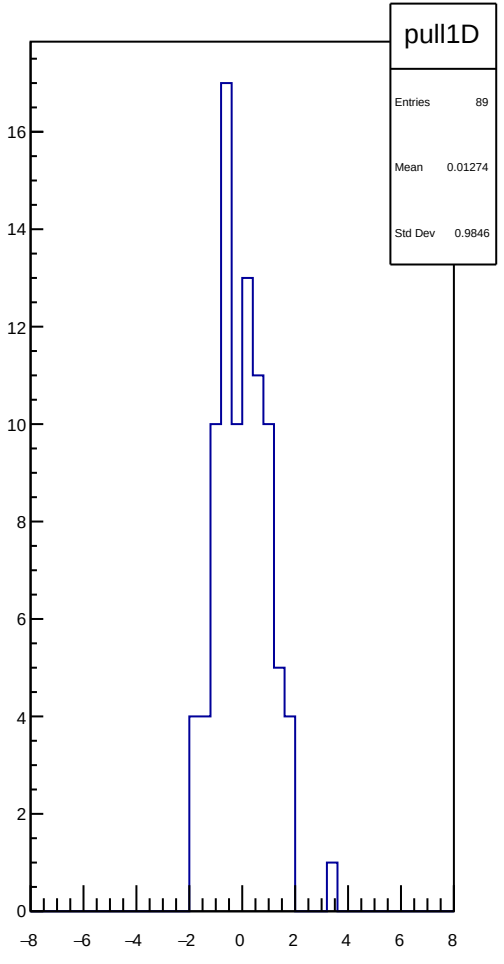

asym_sam3_cor_correction_rms vs run
χ² / ndf 1.574e+04 / 88
p0 1933 ± 1.475
2500
2400
2300
2200
2100
2000
1900
1800
1700

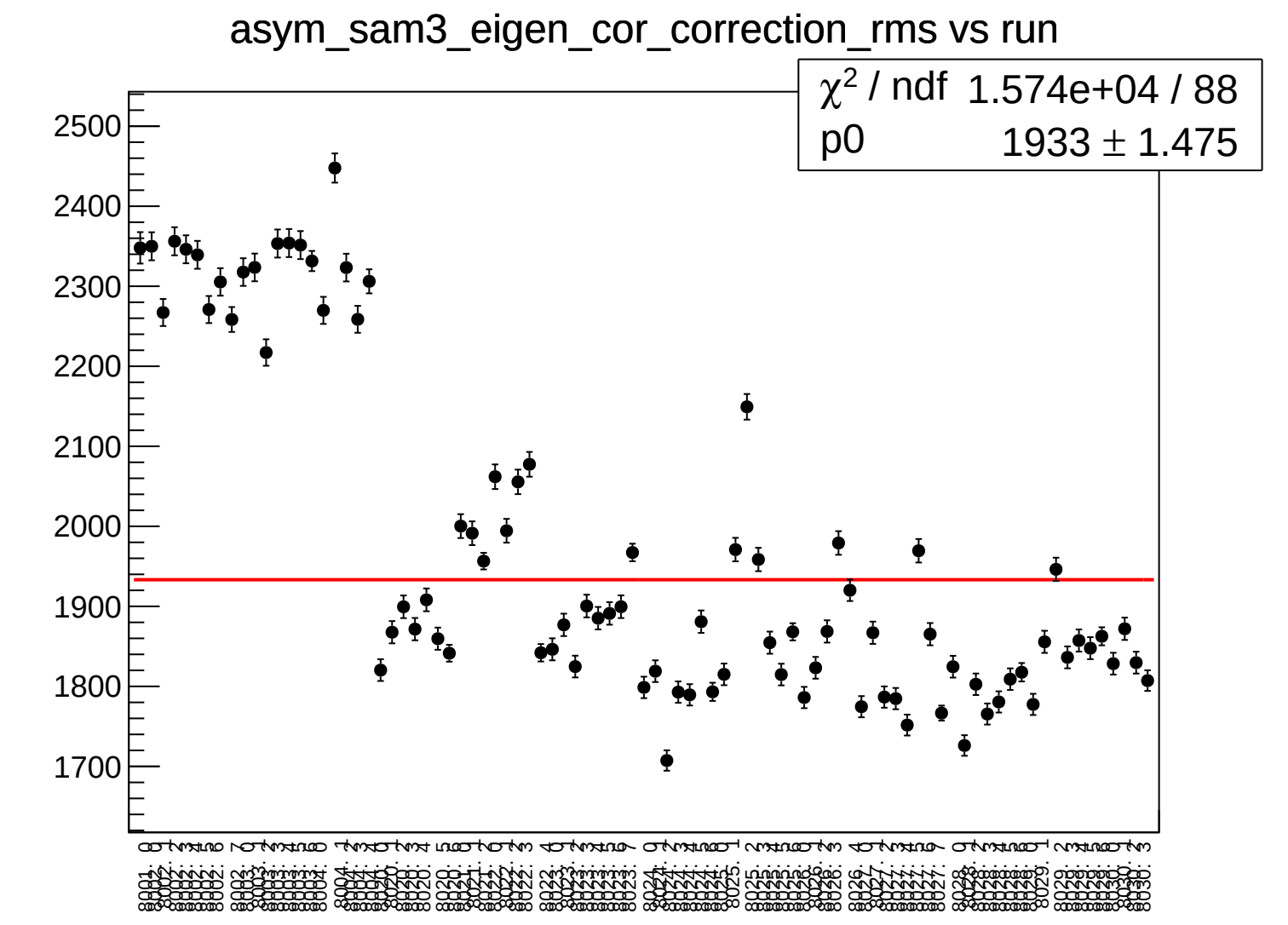

eigen_cor_asym_sam3_mean vs run
χ² / ndf 72.68 / 88
p0 134.1 ± 227
pull
Entries 89
Mean −980.7
Std Dev 0

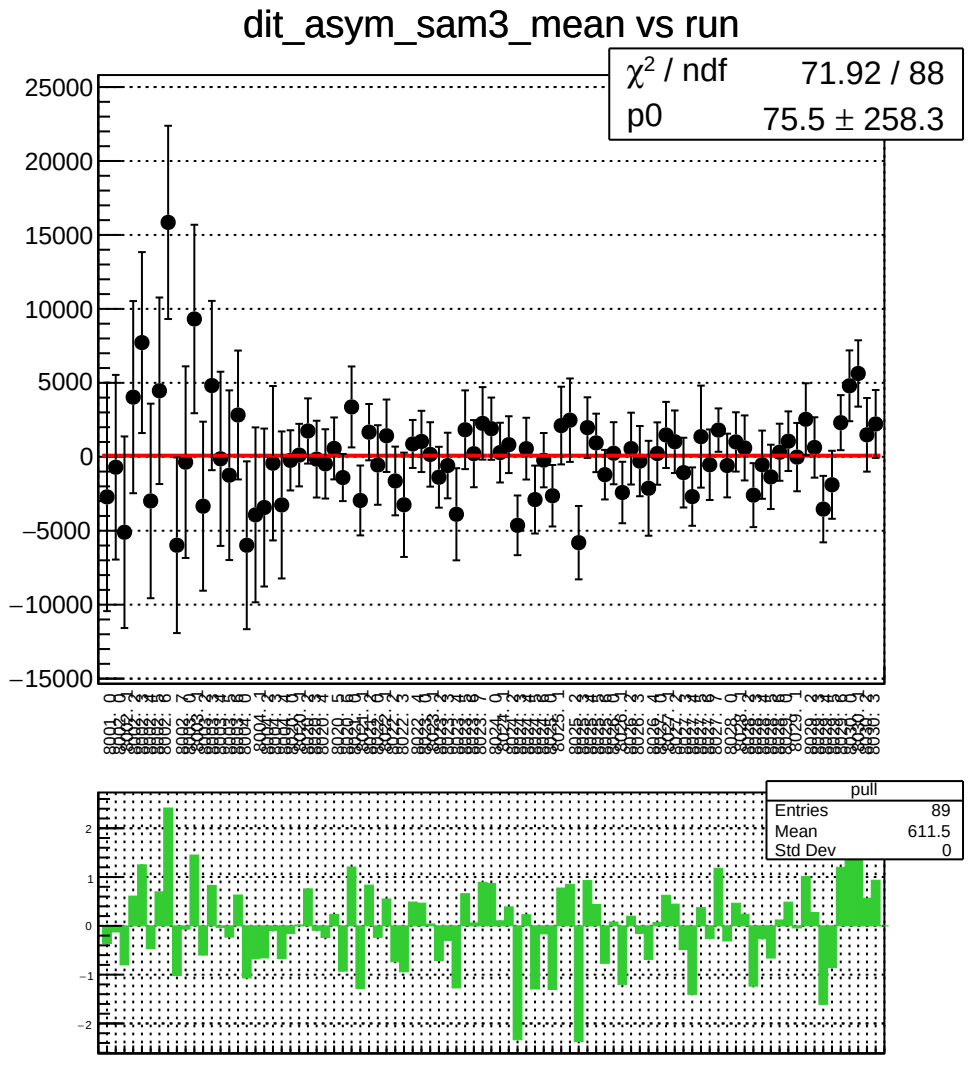

pull1D
Entries 89
Mean −0.002184
Std Dev 0.9037

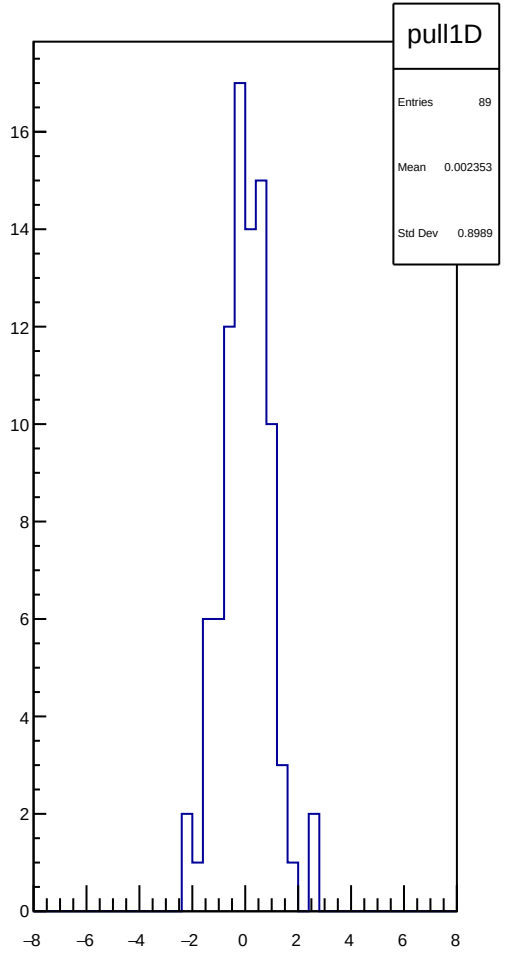

eigen_cor_asym_sam3_rms vs run
χ² / ndf 7.044e+04 / 88
p0 207 ± 0.1605
350
300
250
200
150

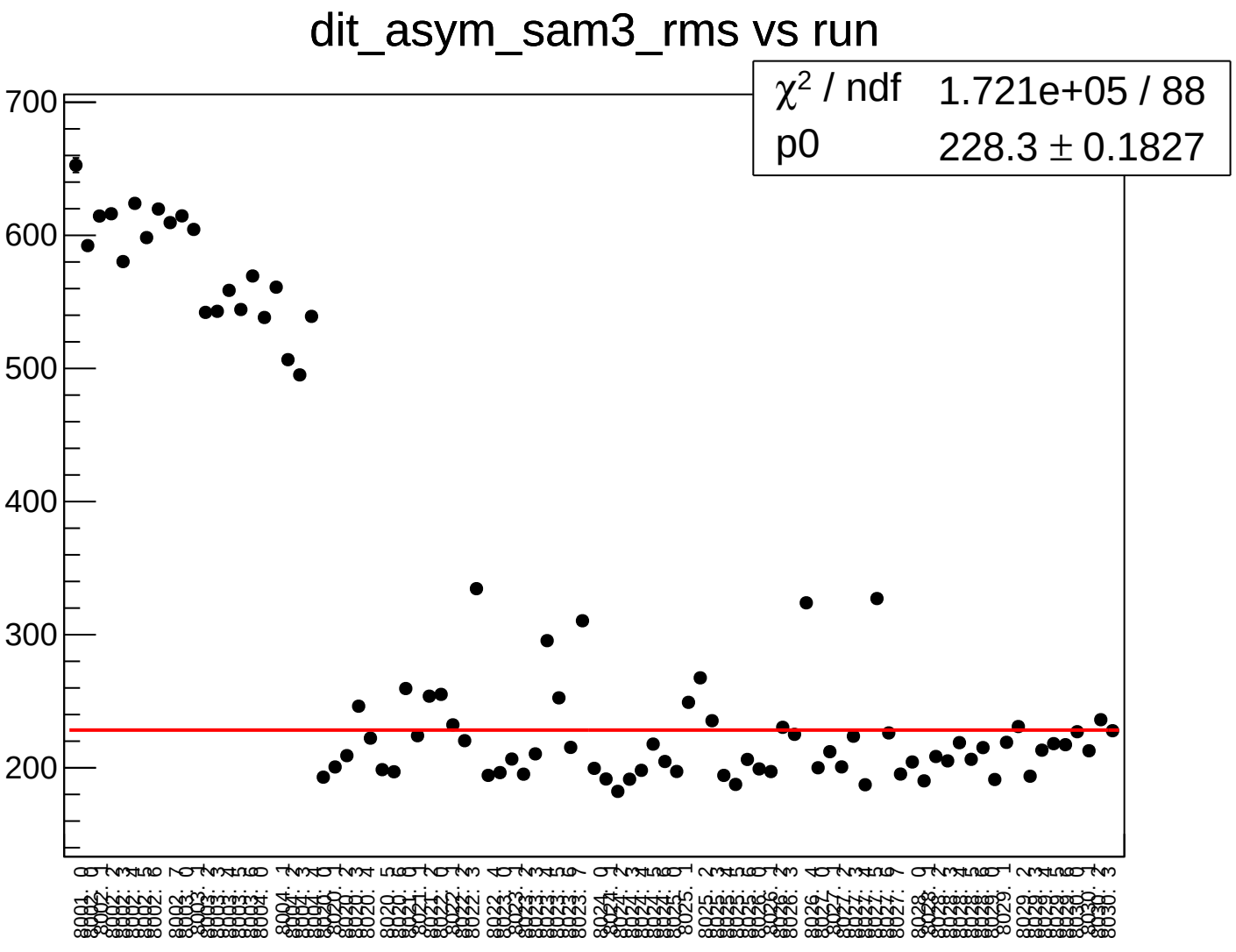

asym_sam3_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 86.29 / 88
p0 840.3 ± 2085
pull
Entries 89
Mean 200.1
Std Dev 0

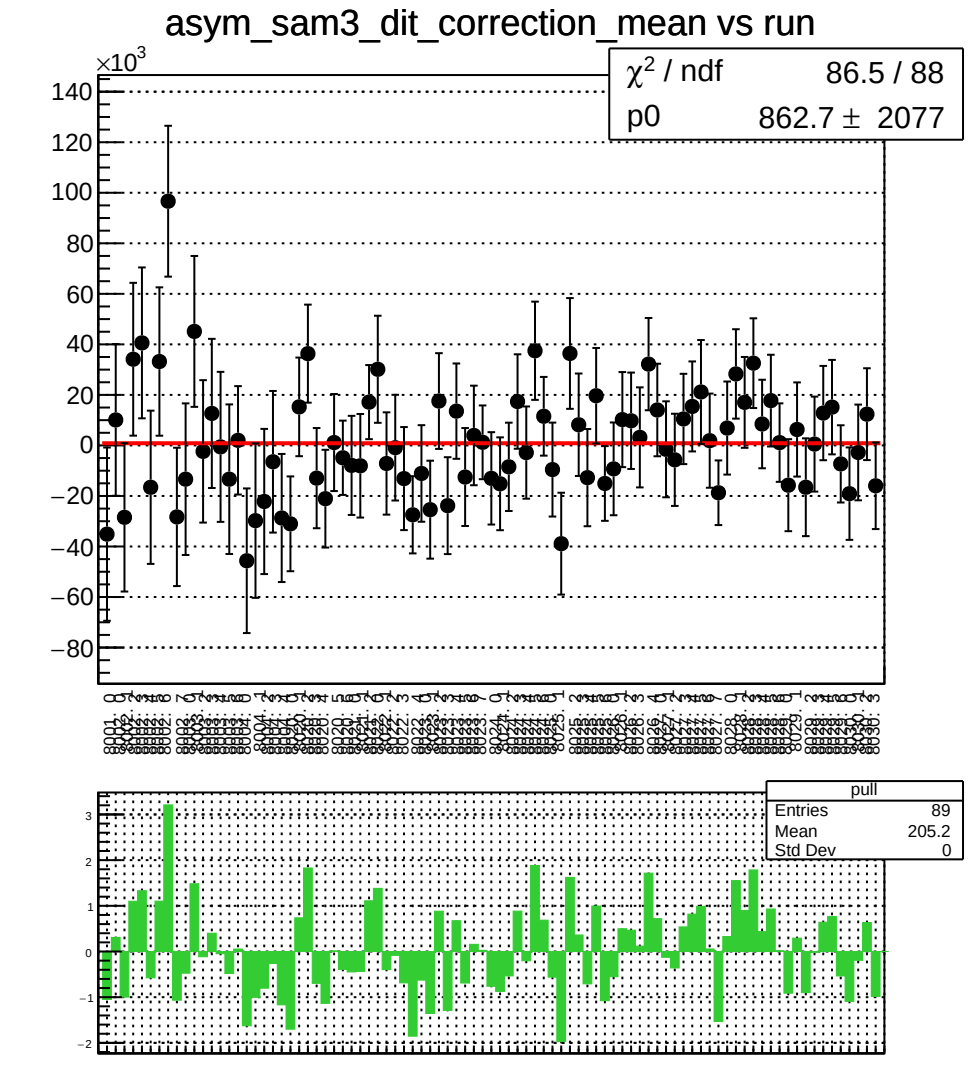

pull1D
Entries 89
Mean 0.01274
Std Dev 0.9846

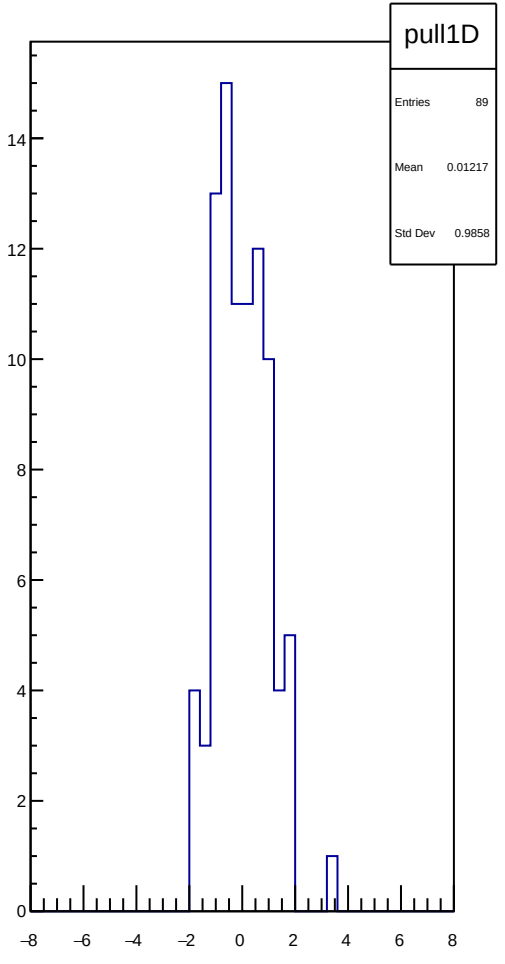

asym_sam3_eigen_cor_correction_rms vs run
χ² / ndf 1.574e+04 / 88
p0 1933 ± 1.475
2500
2400
2300
2200
2100
2000
1900
1800
1700

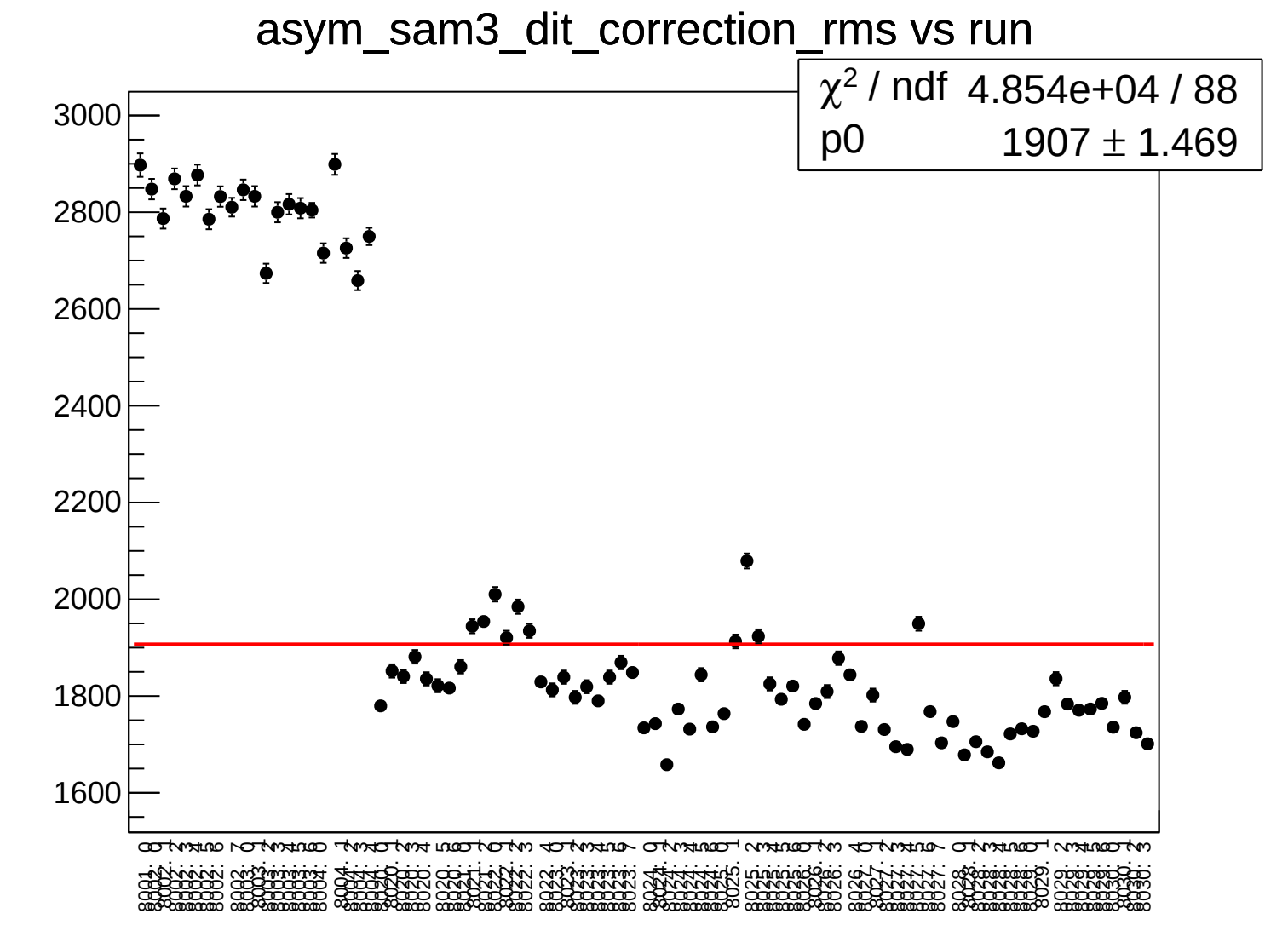

dit_asym_sam3_mean vs run
χ² / ndf 71.92 / 88
p0 75.5 ± 258.3
pull
Entries 89
Mean 611.5
Std Dev 0

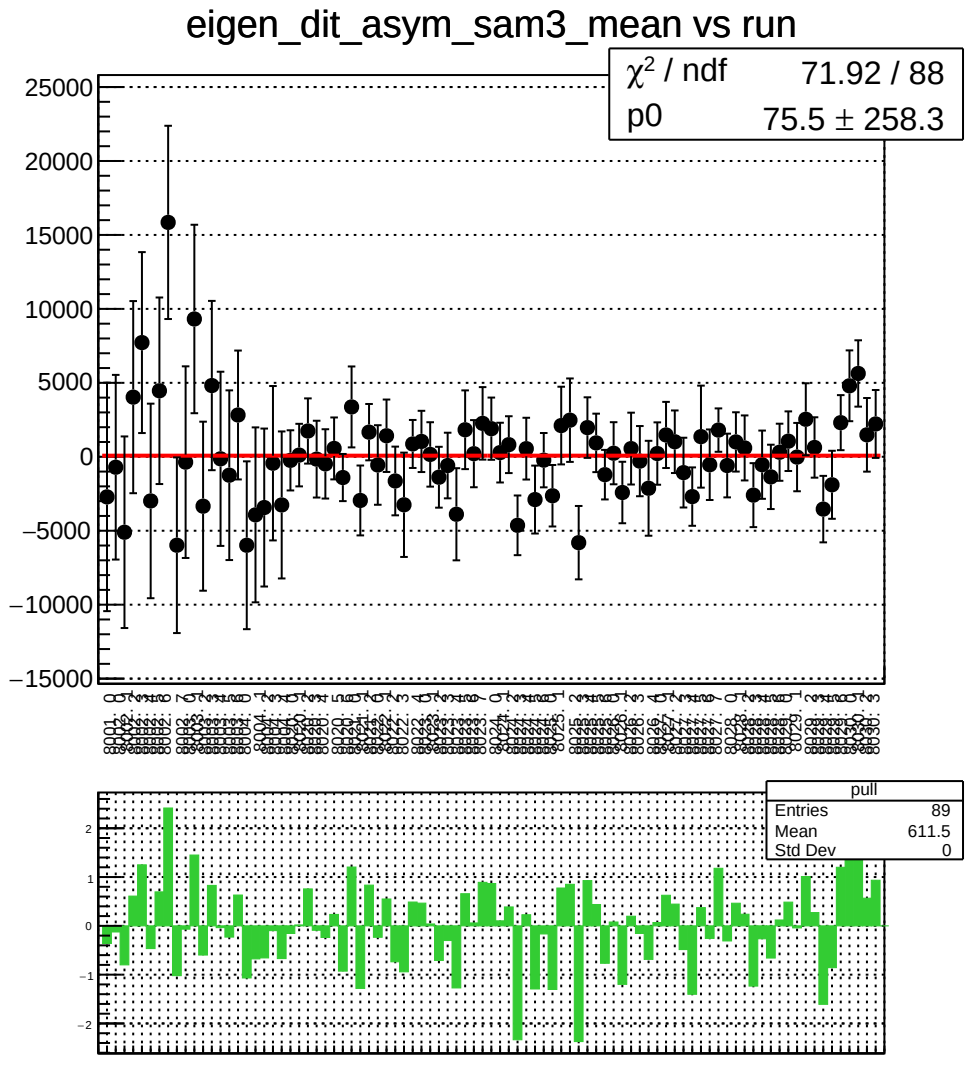

pull1D
Entries 89
Mean 0.002353
Std Dev 0.8989

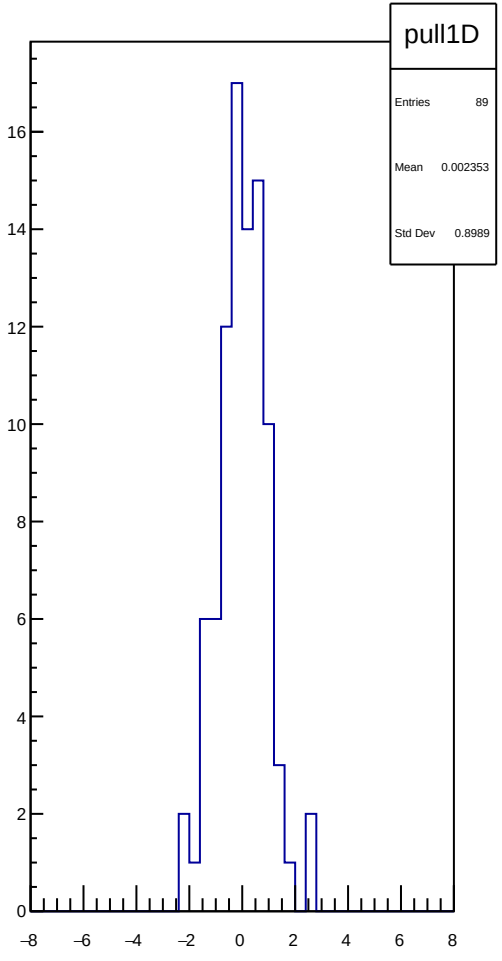

dit_asym_sam3_rms vs run
χ² / ndf 1.721e+05 / 88
p0 228.3 ± 0.1827
700
600
500
400
300
200

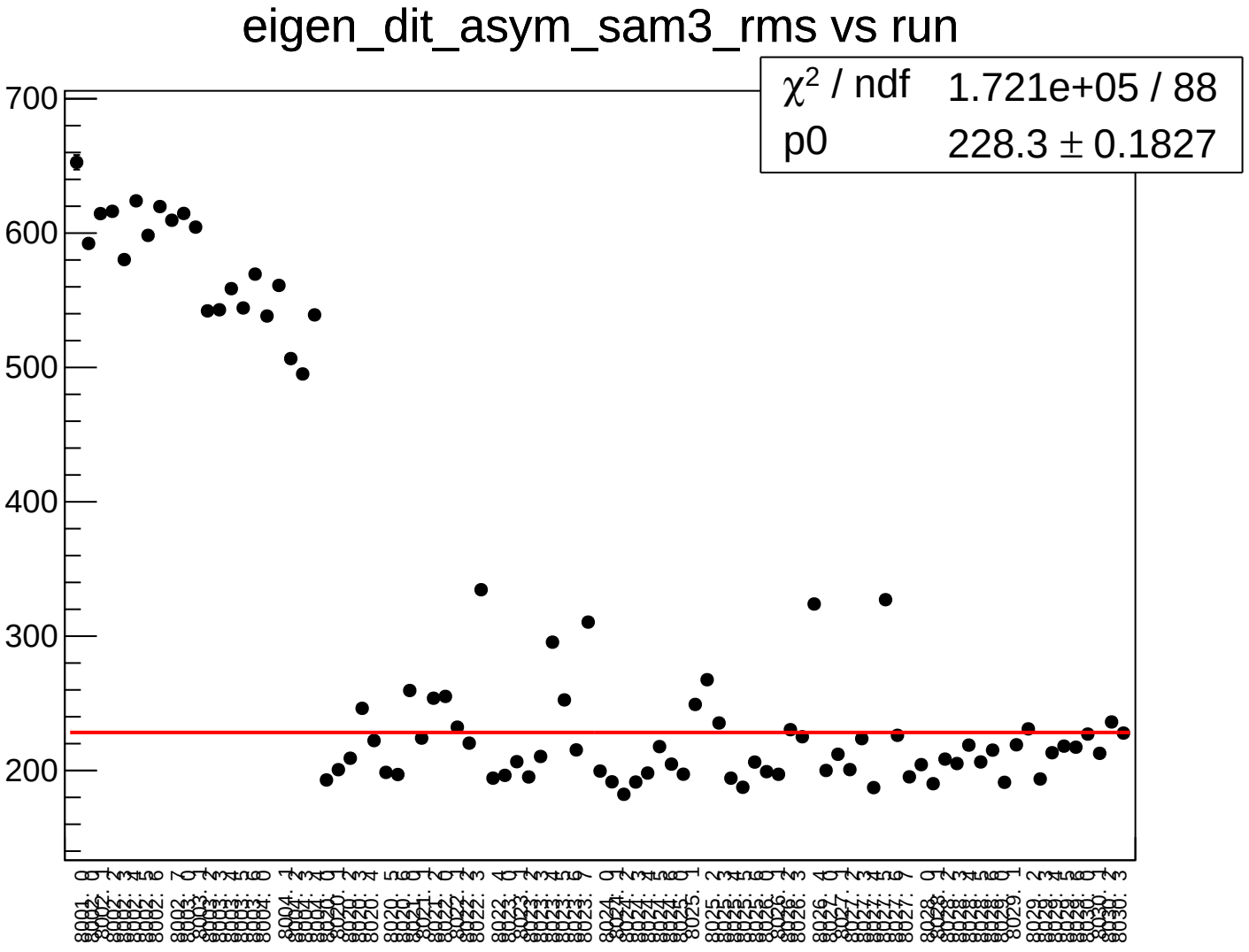

asym_sam3_dit_correction_mean vs run
×10^3
χ² / ndf 86.5 / 88
p0 862.7 ± 2077
pull
Entries 89
Mean 205.2
Std Dev 0

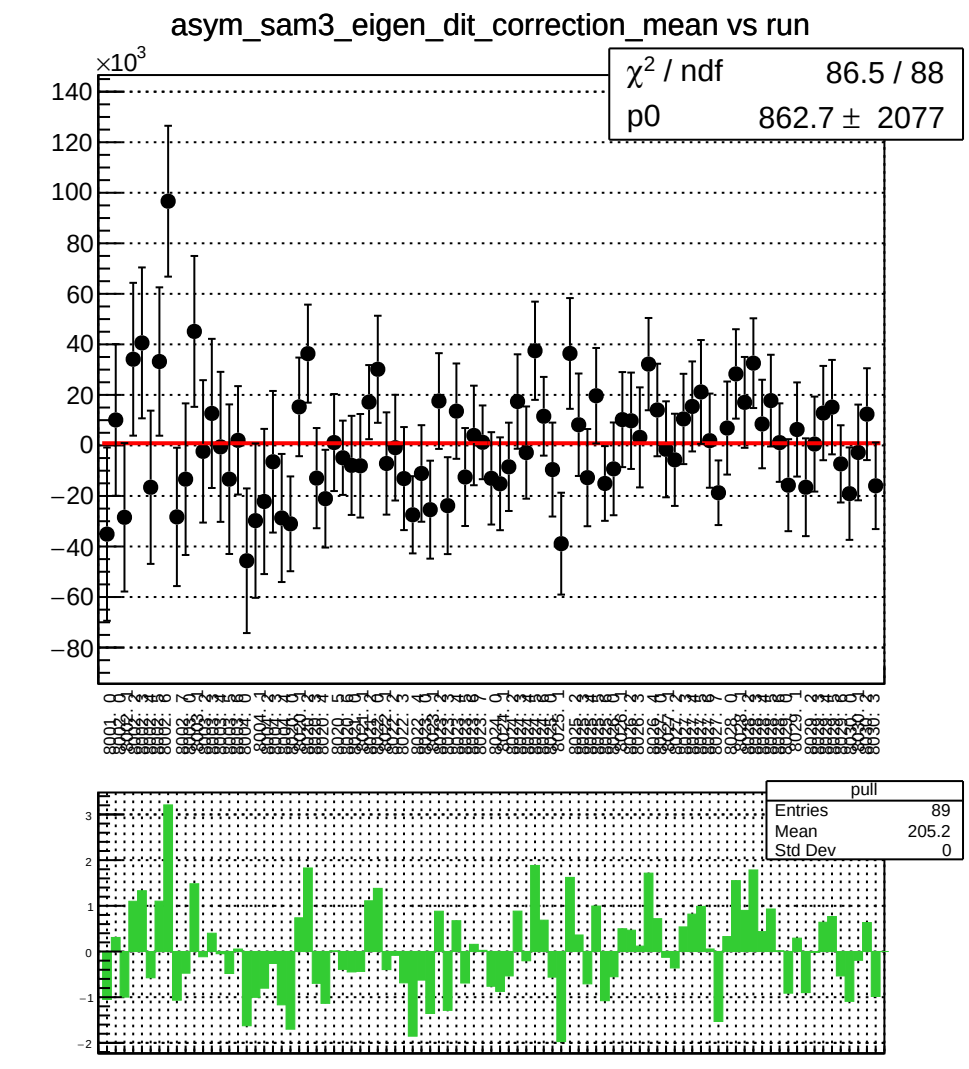

pull1D
Entries 89
Mean 0.01217
Std Dev 0.9858

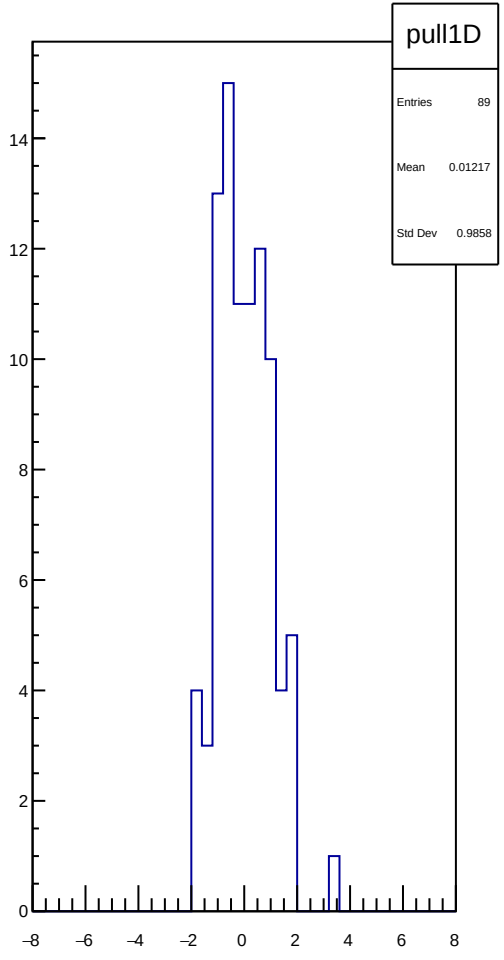

asym_sam3_dit_correction_rms vs run
χ² / ndf 4.854e+04 / 88
p0 1907 ± 1.469
3000
2800
2600
2400
2200
2000
1800
1600

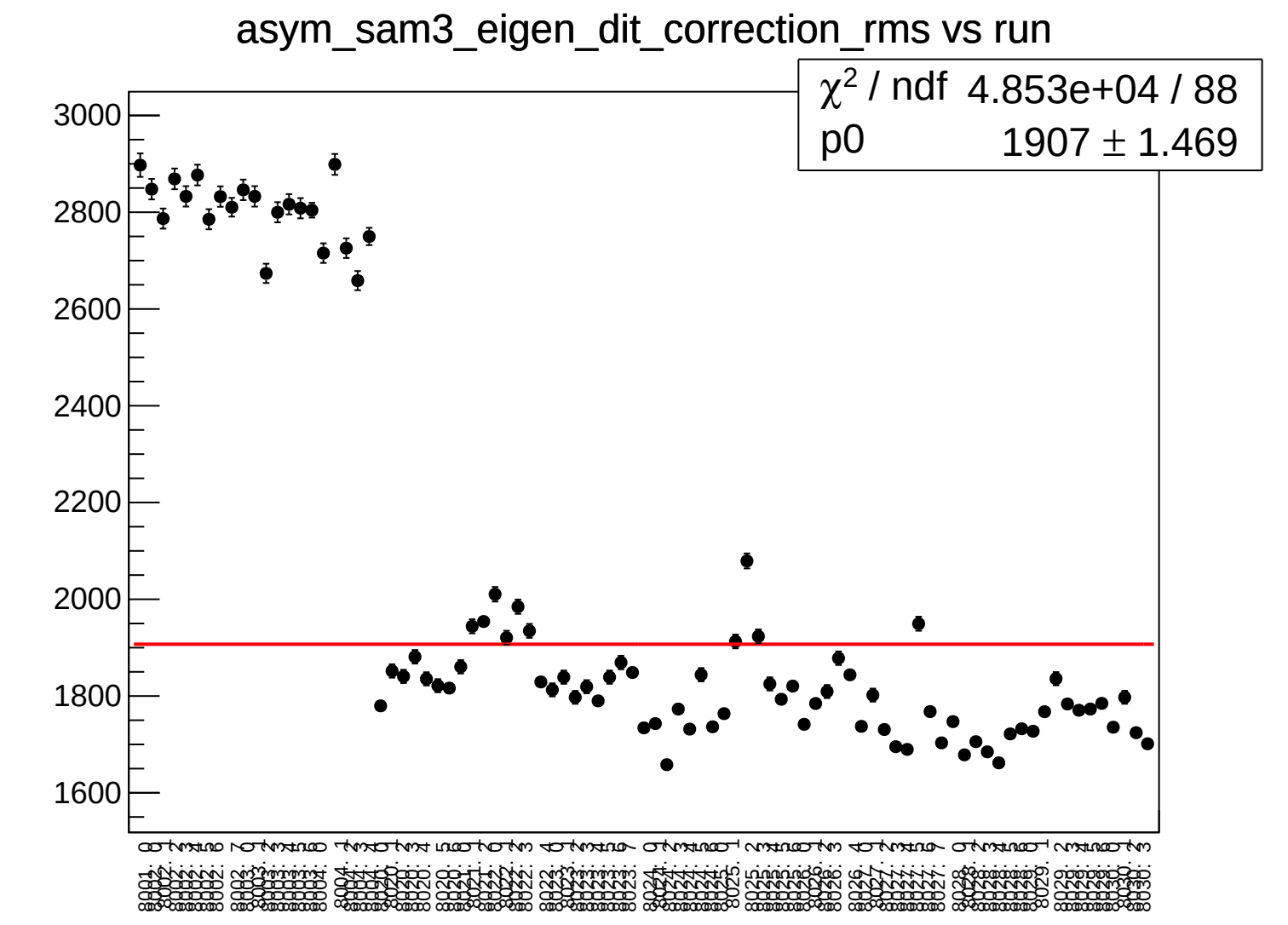

eigen_dit_asym_sam3_mean vs run
χ² / ndf 71.92 / 88
p0 75.5 ± 258.3
pull
Entries 89
Mean 611.5
Std Dev 0

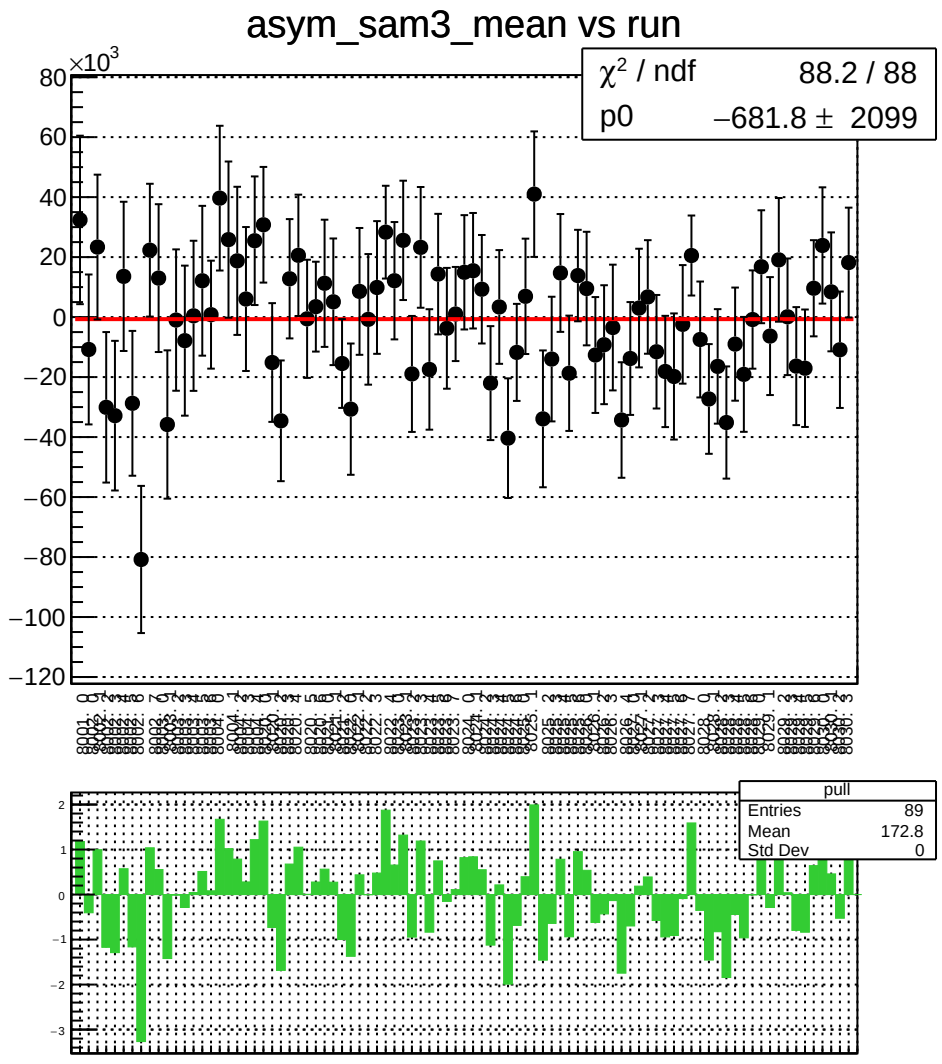

pull1D
Entries 89
Mean 0.002353
Std Dev 0.8989

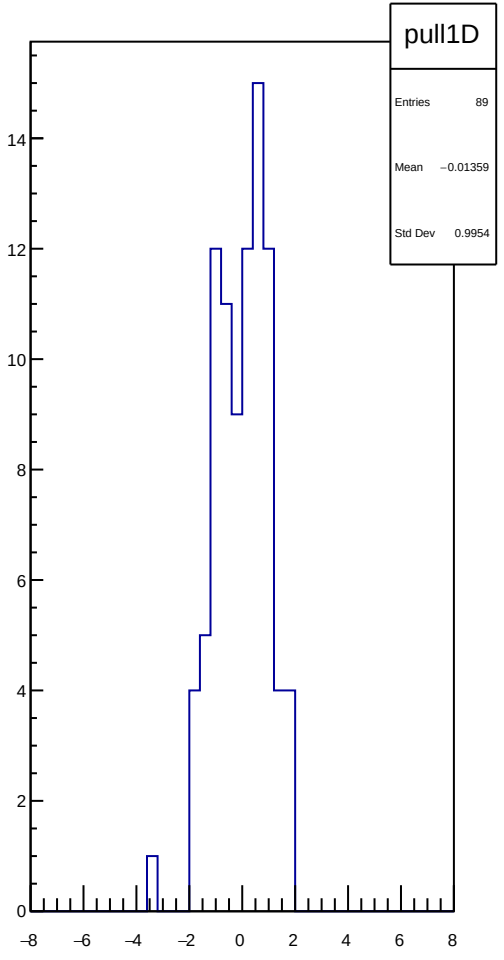

eigen_dit_asym_sam3_rms vs run
χ^2 / ndf 1.721e+05 / 88
p0 228.3 ± 0.1827
700
600
500
400
300
200

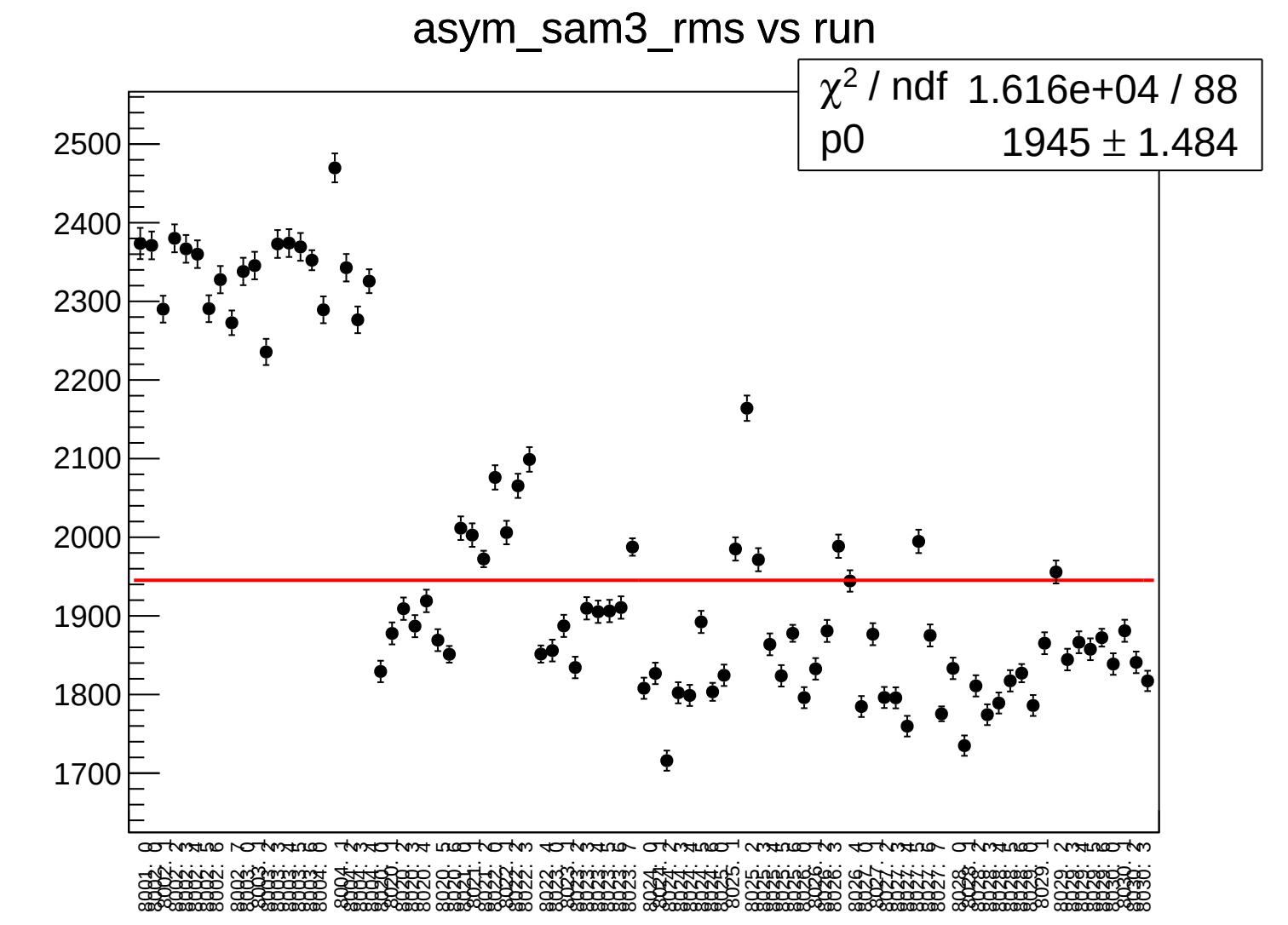

asym_sam3_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 86.5 / 88
p0 862.7 ± 2077
pull
Entries 89
Mean 205.2
Std Dev 0

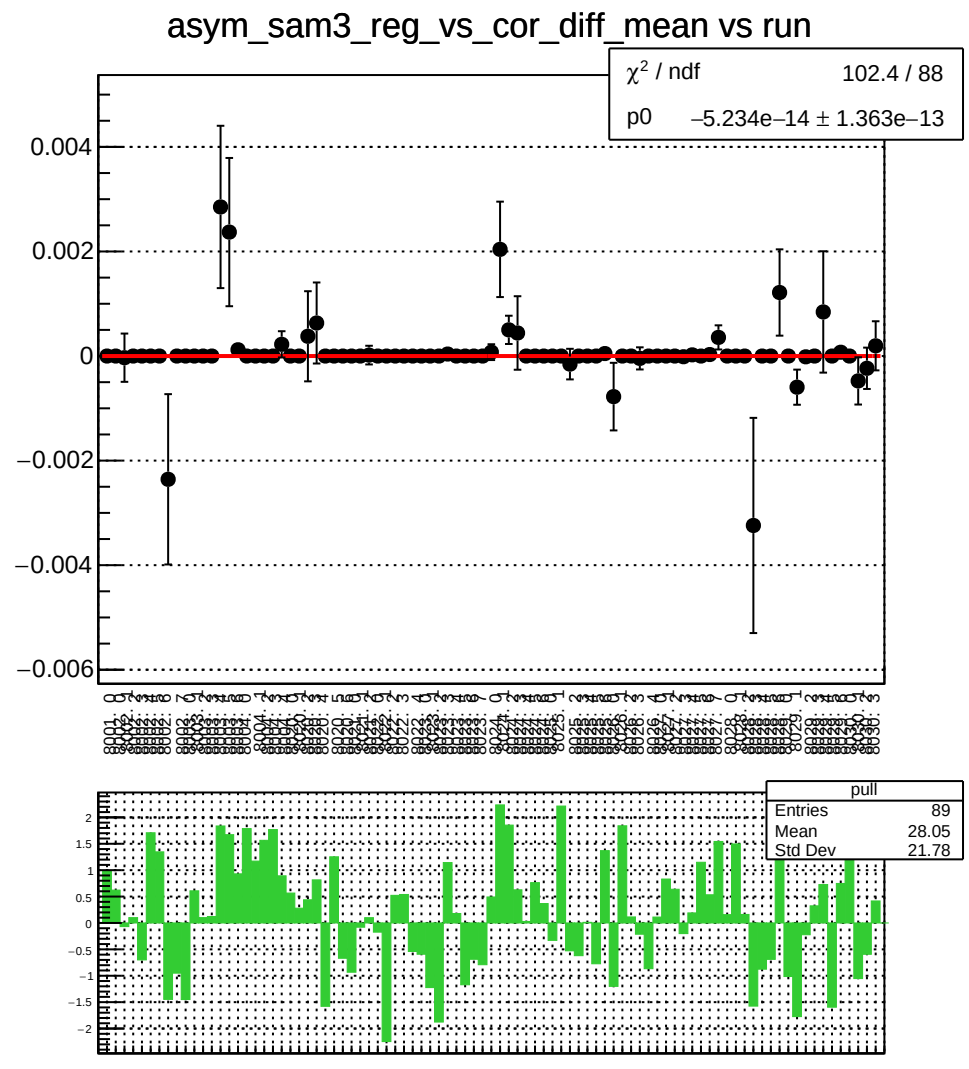

pull1D
Entries 89
Mean 0.01217
Std Dev 0.9858

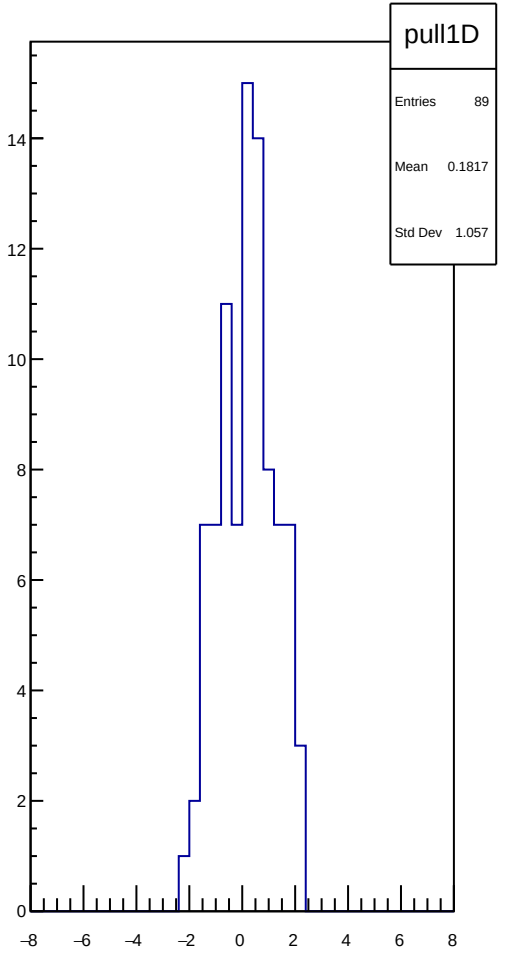

asym_sam3_eigen_dit_correction_rms vs run
χ² / ndf 4.853e+04 / 88
p0 1907 ± 1.469
3000
2800
2600
2400
2200
2000
1800
1600

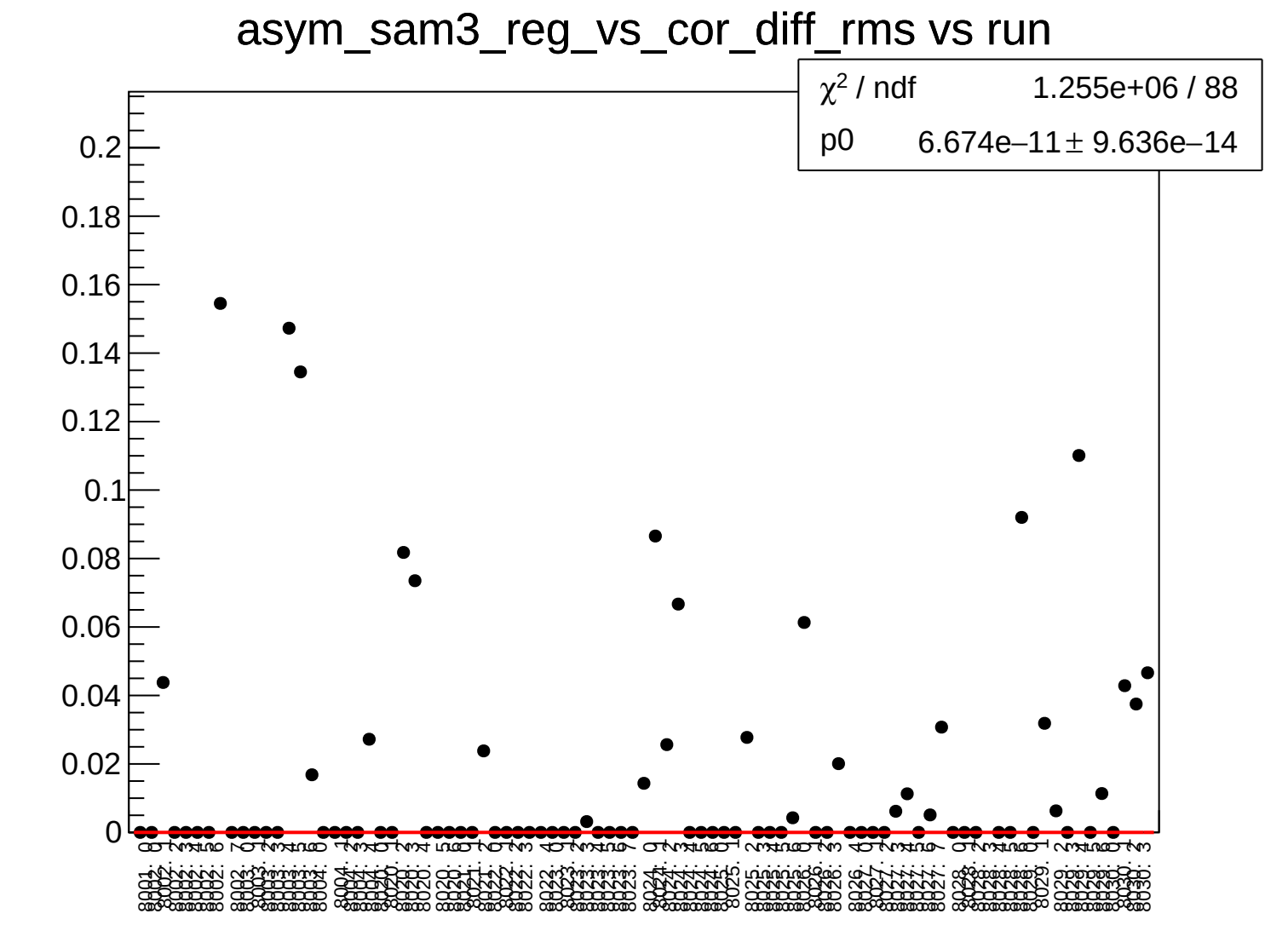

asym_sam3_mean vs run
×10^3
χ² / ndf 88.2 / 88
p0 −681.8 ± 2099
pull
Entries 89
Mean 172.8
Std Dev 0

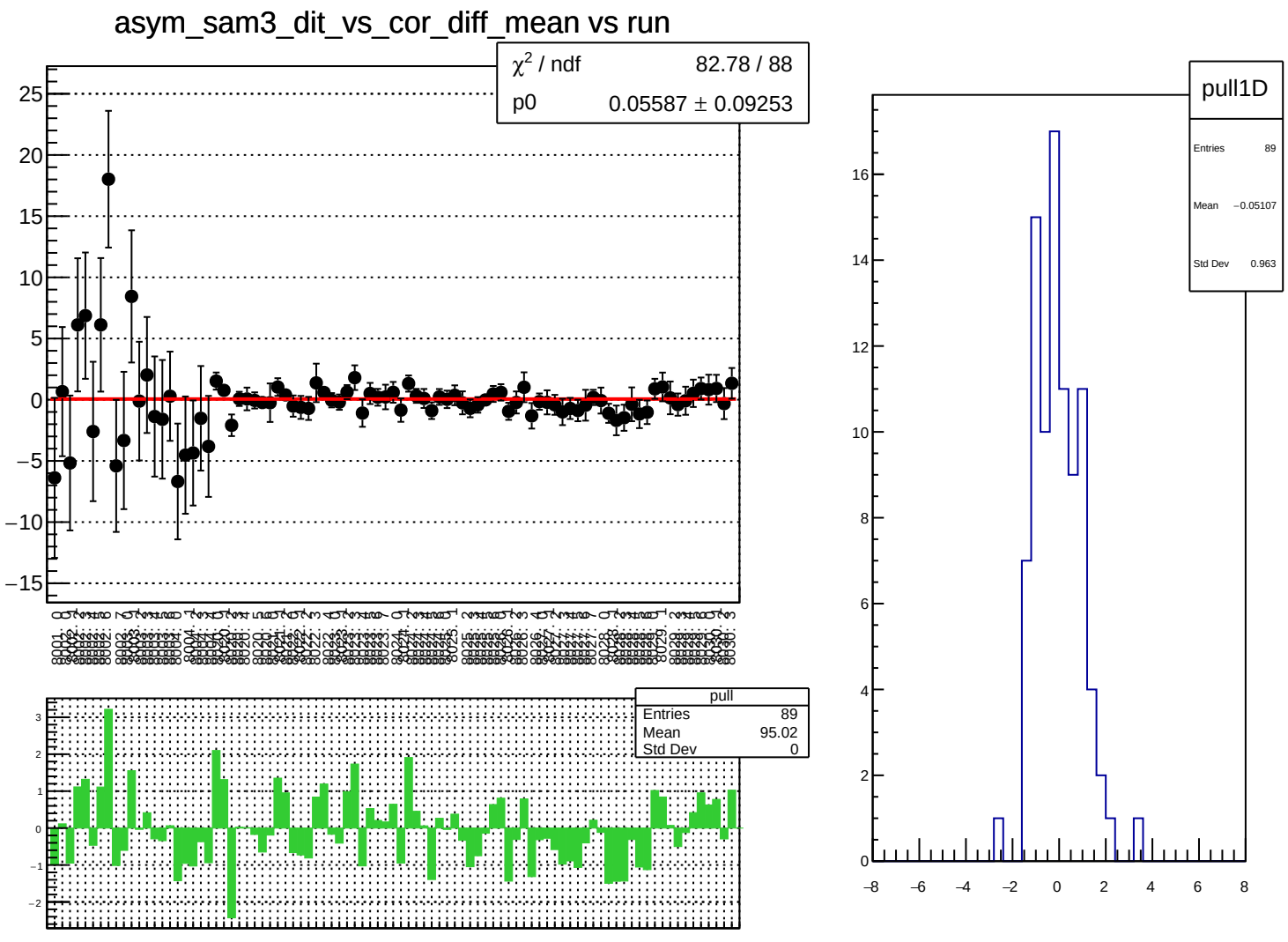

pull1D
Entries 89
Mean −0.01359
Std Dev 0.9954

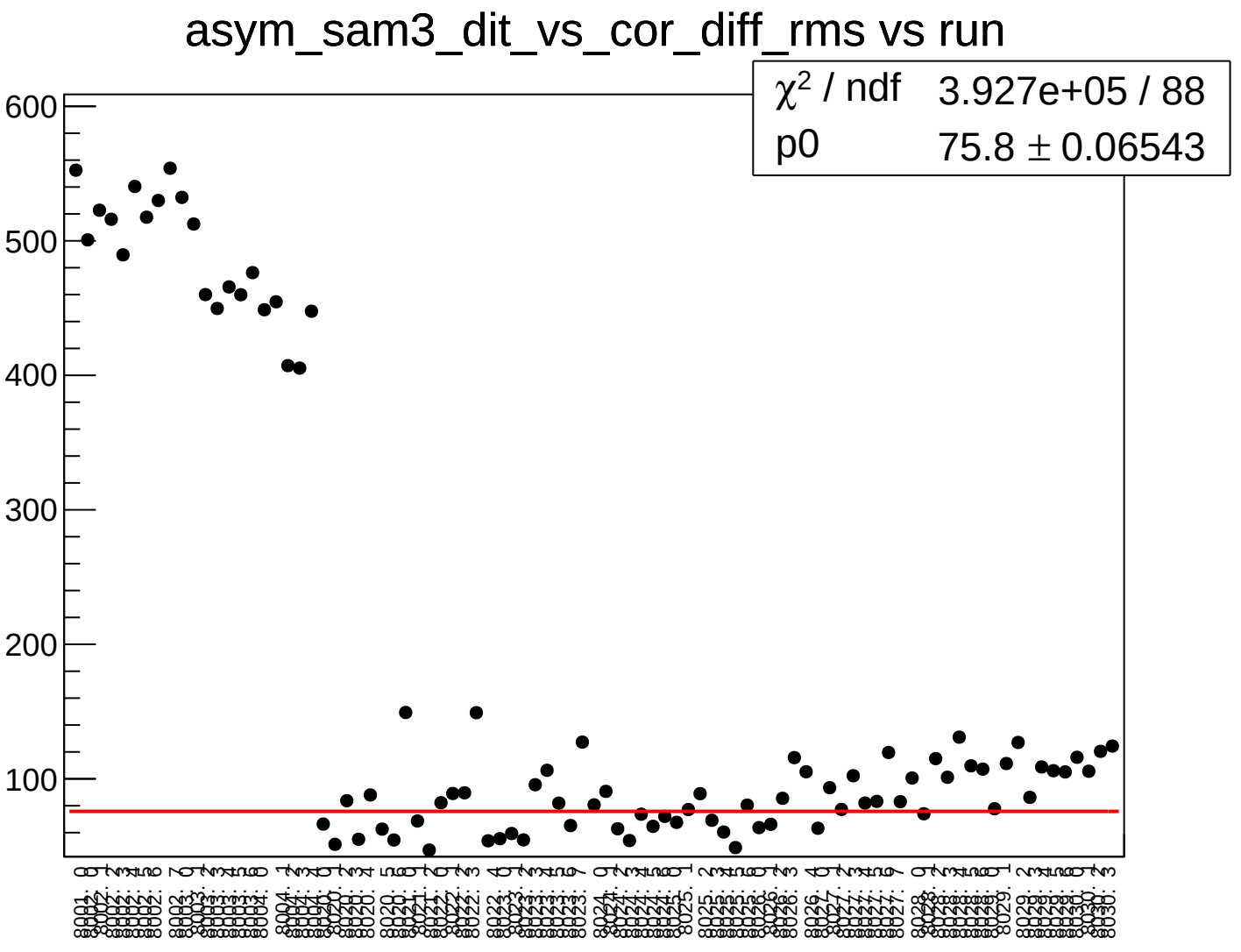

asym_sam3_rms vs run
χ² / ndf 1.616e+04 / 88
p0 1945 ± 1.484
2500
2400
2300
2200
2100
2000
1900
1800
1700

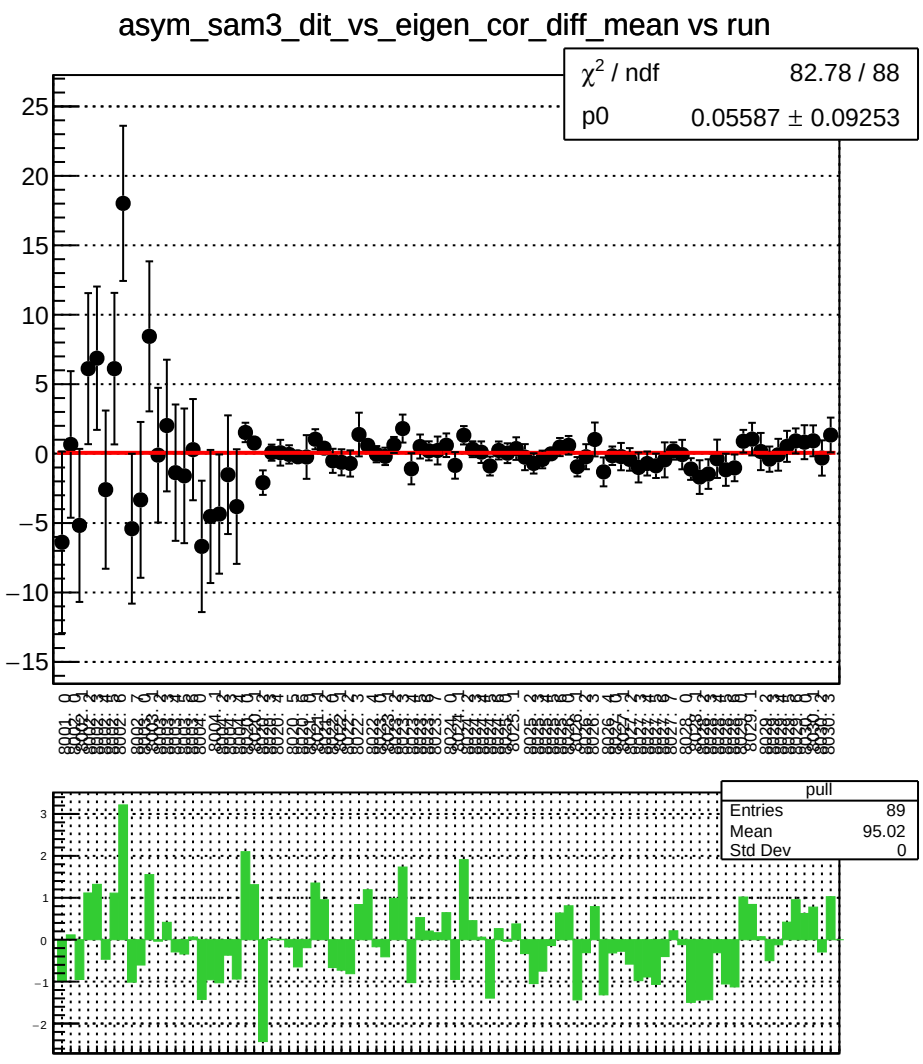

asym_sam3_reg_vs_cor_diff_mean vs run
χ² / ndf 102.4 / 88
p0 −5.234e−14 ± 1.363e−13
0.004
0.002
0
−0.002
−0.004
−0.006
pull
Entries 89
Mean 28.05
Std Dev 21.78
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

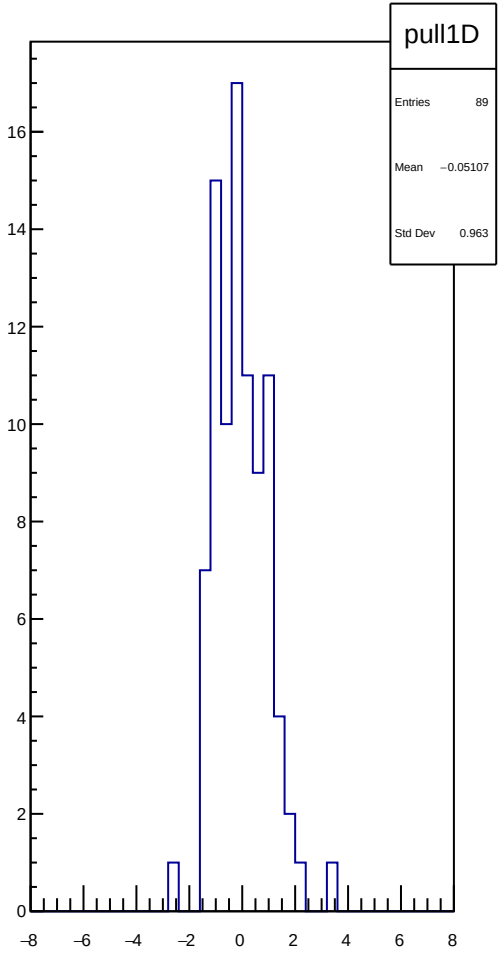

pull1D
Entries 89
Mean 0.1817
Std Dev 1.057
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

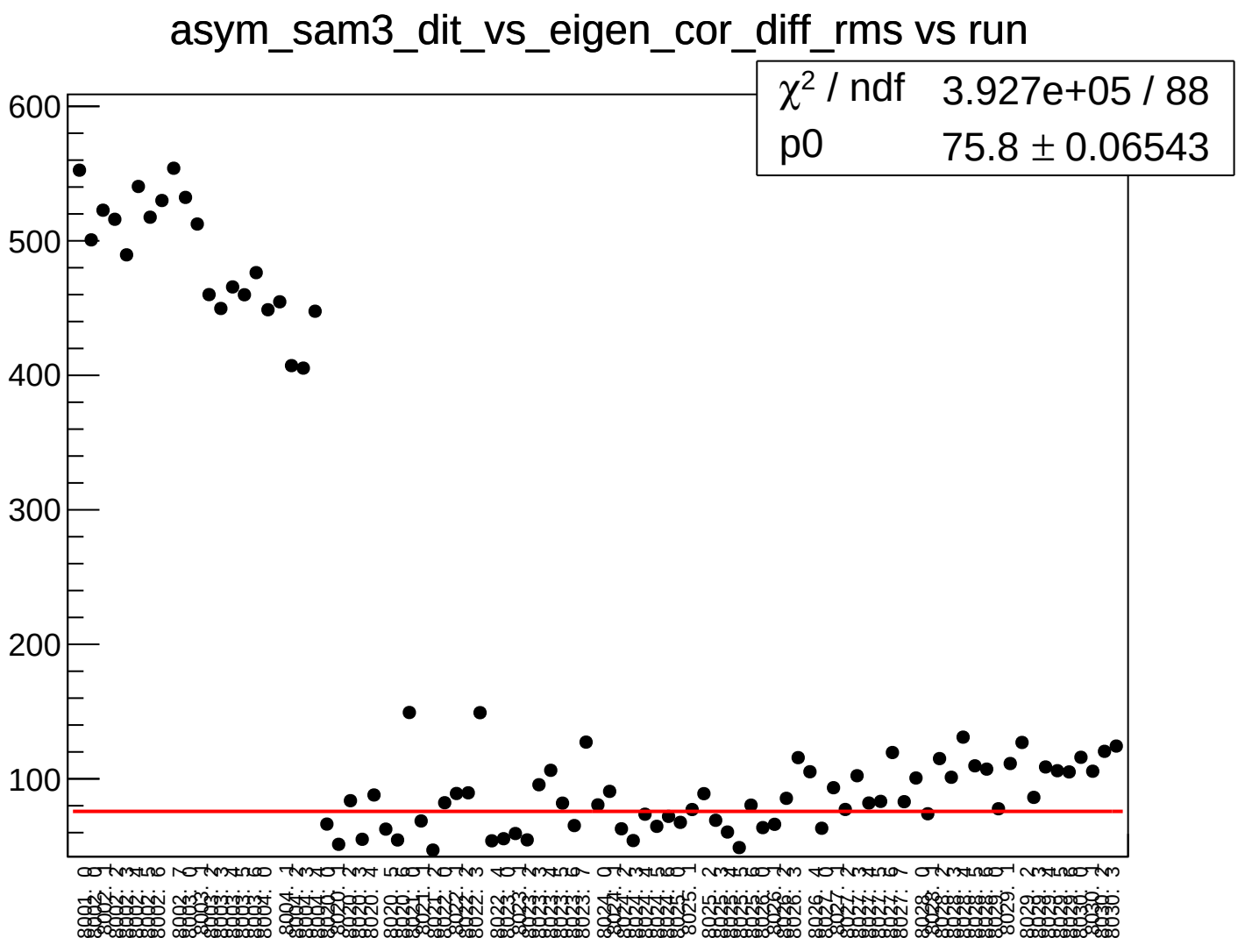

asym_sam3_reg_vs_cor_diff_rms vs run
χ² / ndf 1.255e+06 / 88
p0 6.674e−11 ± 9.636e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

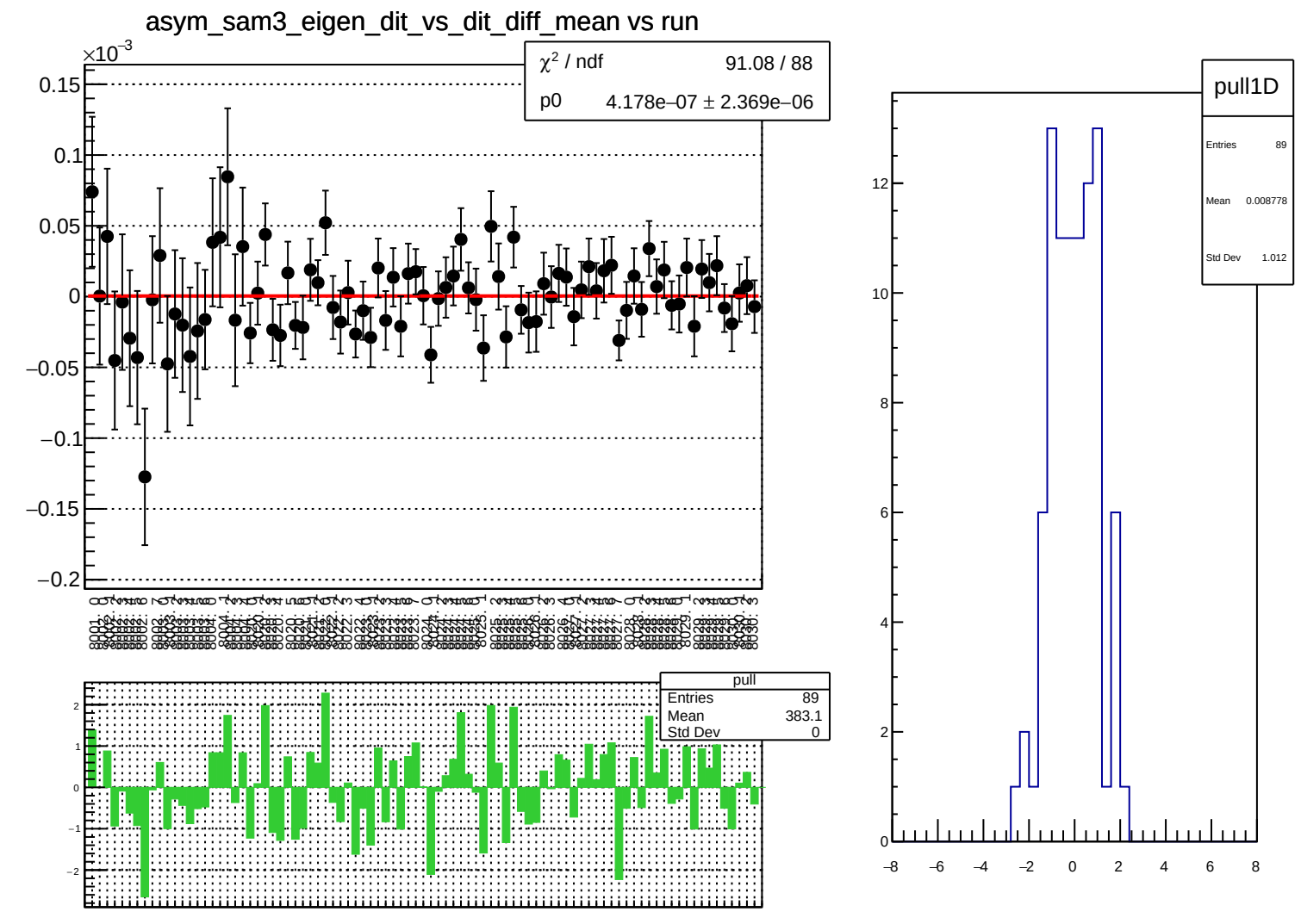

asym_sam3_dit_vs_cor_diff_mean vs run
χ² / ndf 82.78 / 88
p0 0.05587 ± 0.09253
pull
Entries 89
Mean 95.02
Std Dev 0
pull1D
Entries 89
Mean −0.05107
Std Dev 0.963

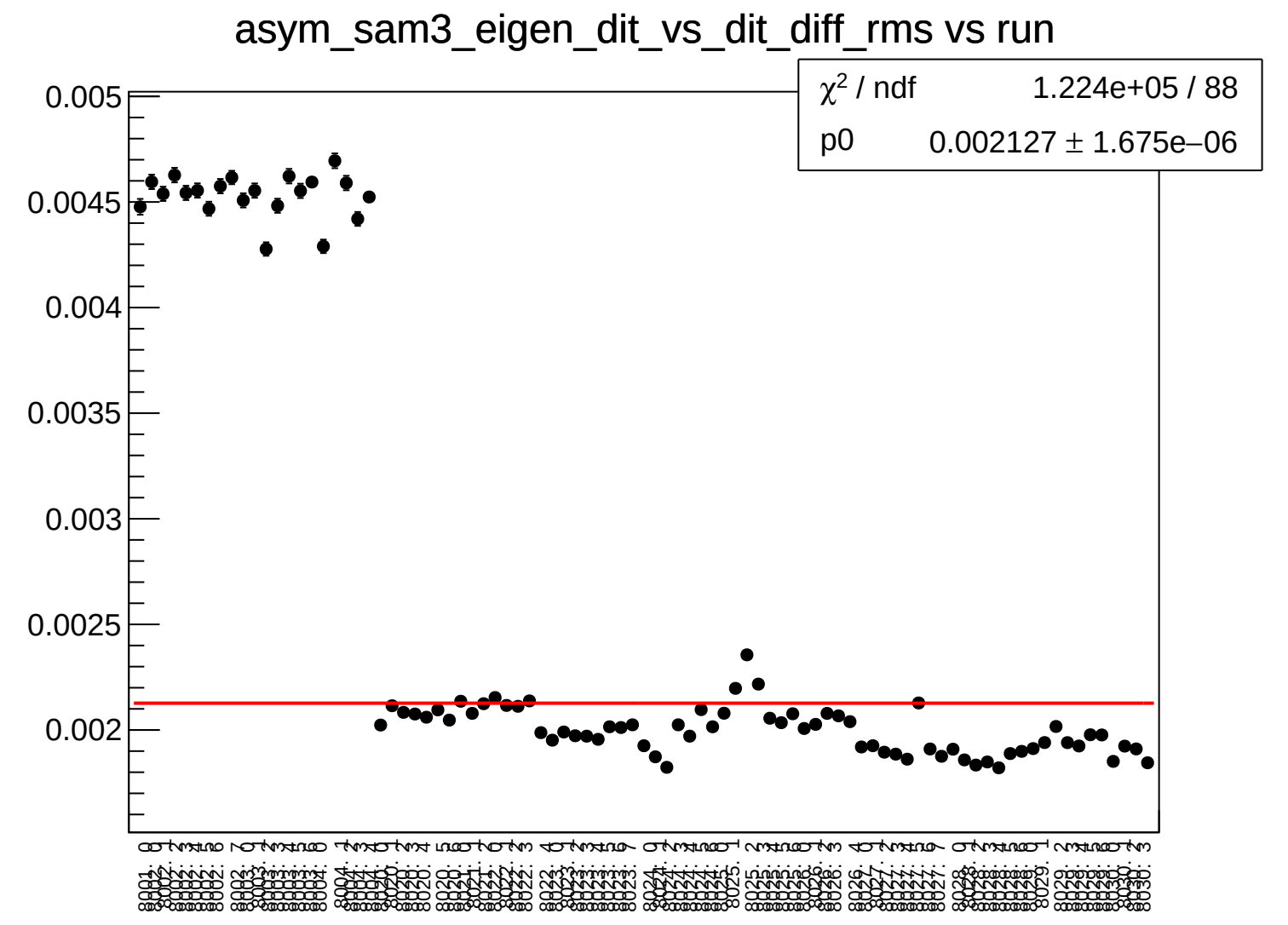

asym_sam3_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.927e+05 / 88
p0 75.8 ± 0.06543
600
500
400
300
200
100

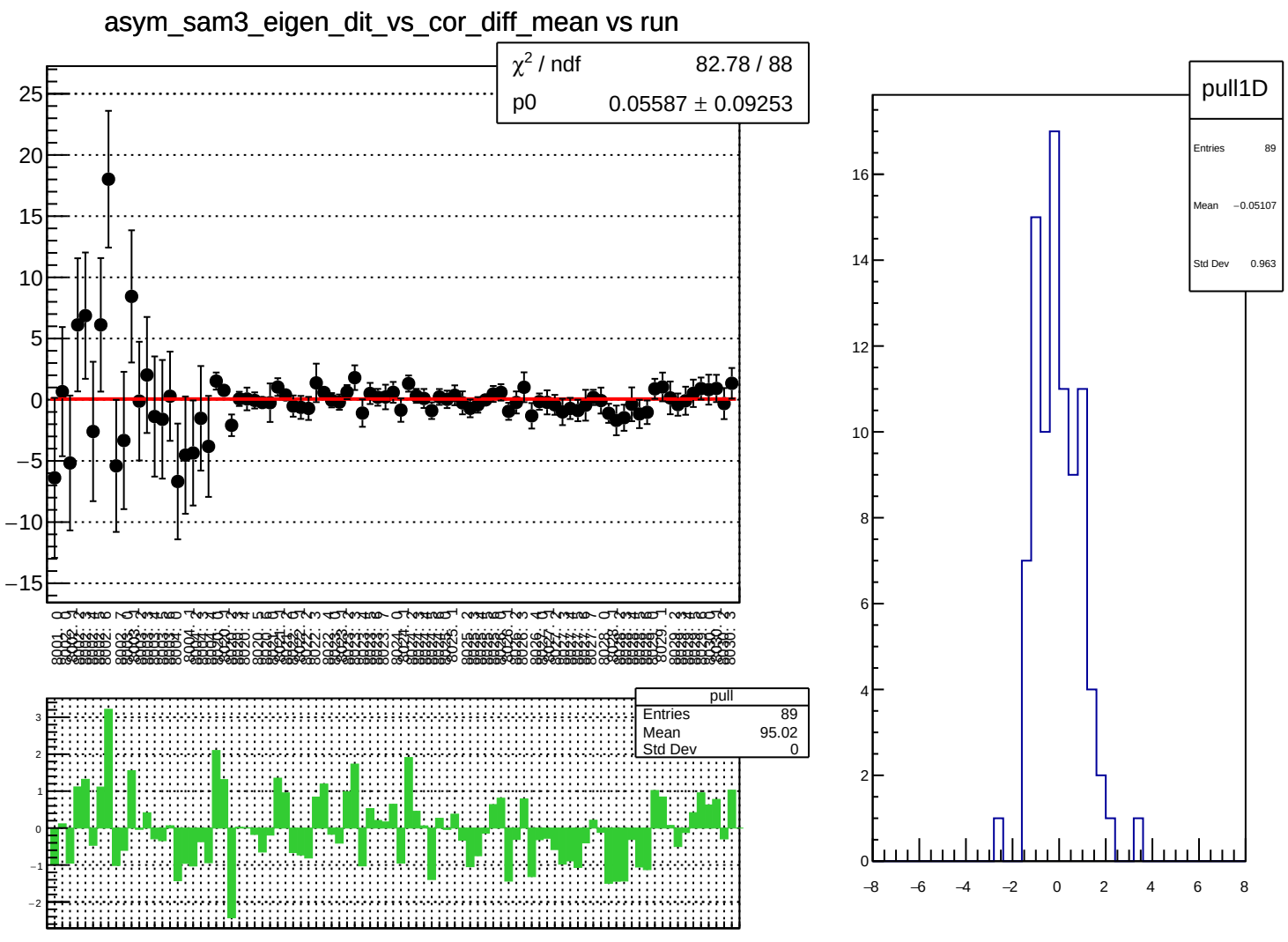

asym_sam3_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.78 / 88
p0 0.05587 ± 0.09253
pull
Entries 89
Mean 95.02
Std Dev 0

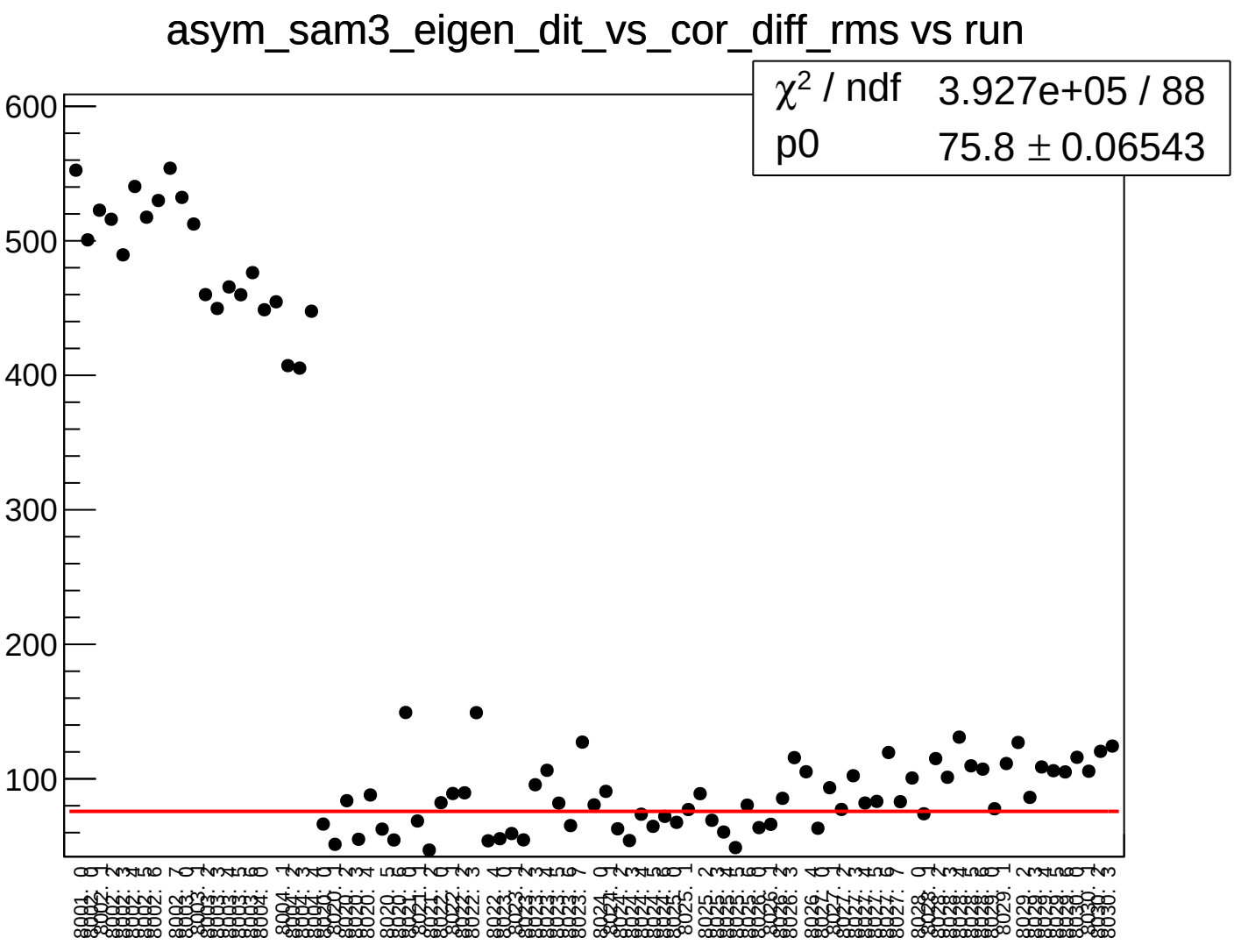

pull1D
Entries 89
Mean −0.05107
Std Dev 0.963

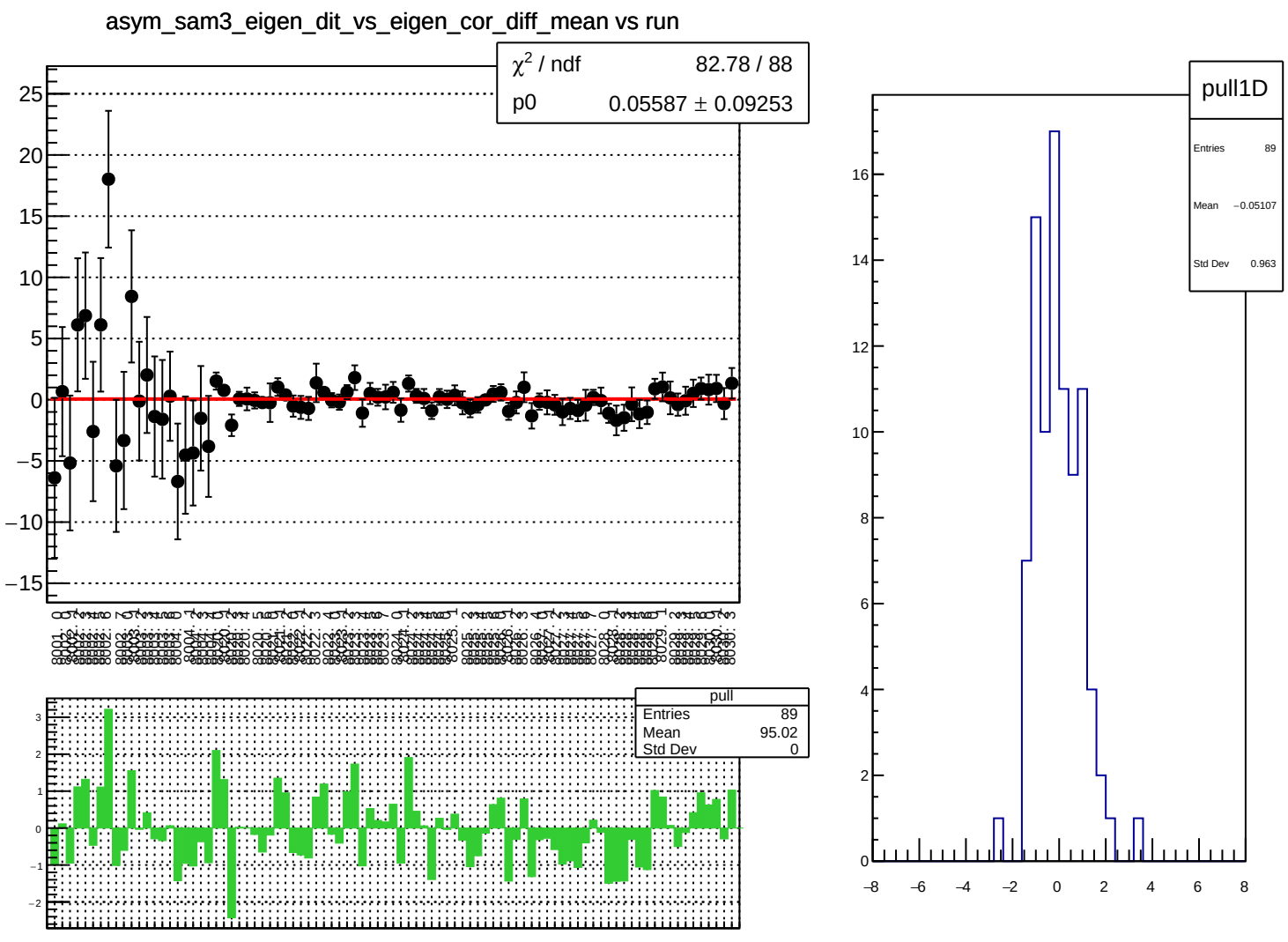

asym_sam3_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.927e+05 / 88
p0 75.8 ± 0.06543
600
500
400
300
200
100

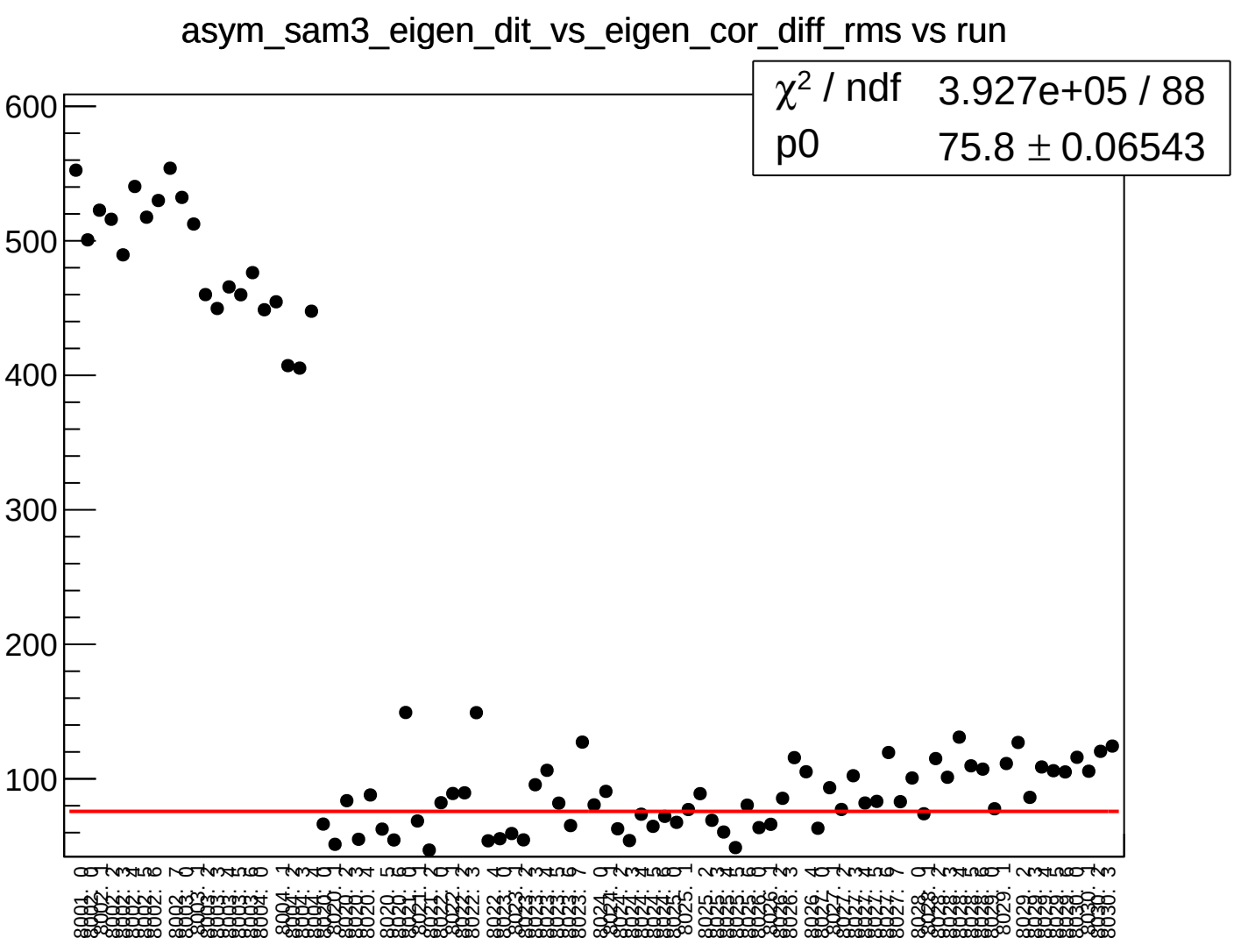

asym_sam3_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.08 / 88
p0 4.178e−07 ± 2.369e−06
pull
Entries 89
Mean 383.1
Std Dev 0
pull1D
Entries 89
Mean 0.008778
Std Dev 1.012

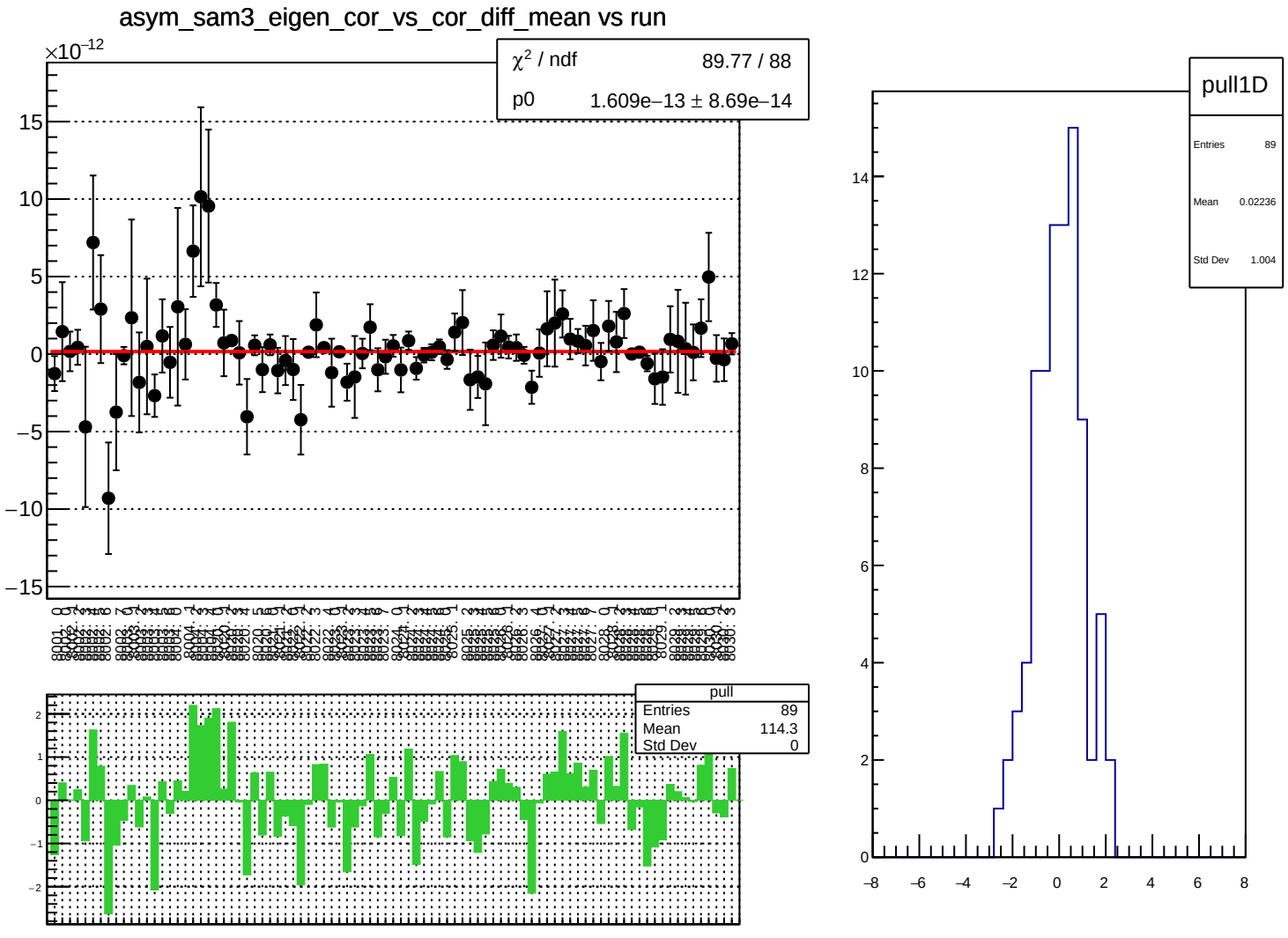

asym_sam3_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.224e+05 / 88
p0 0.002127 ± 1.675e−06
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002

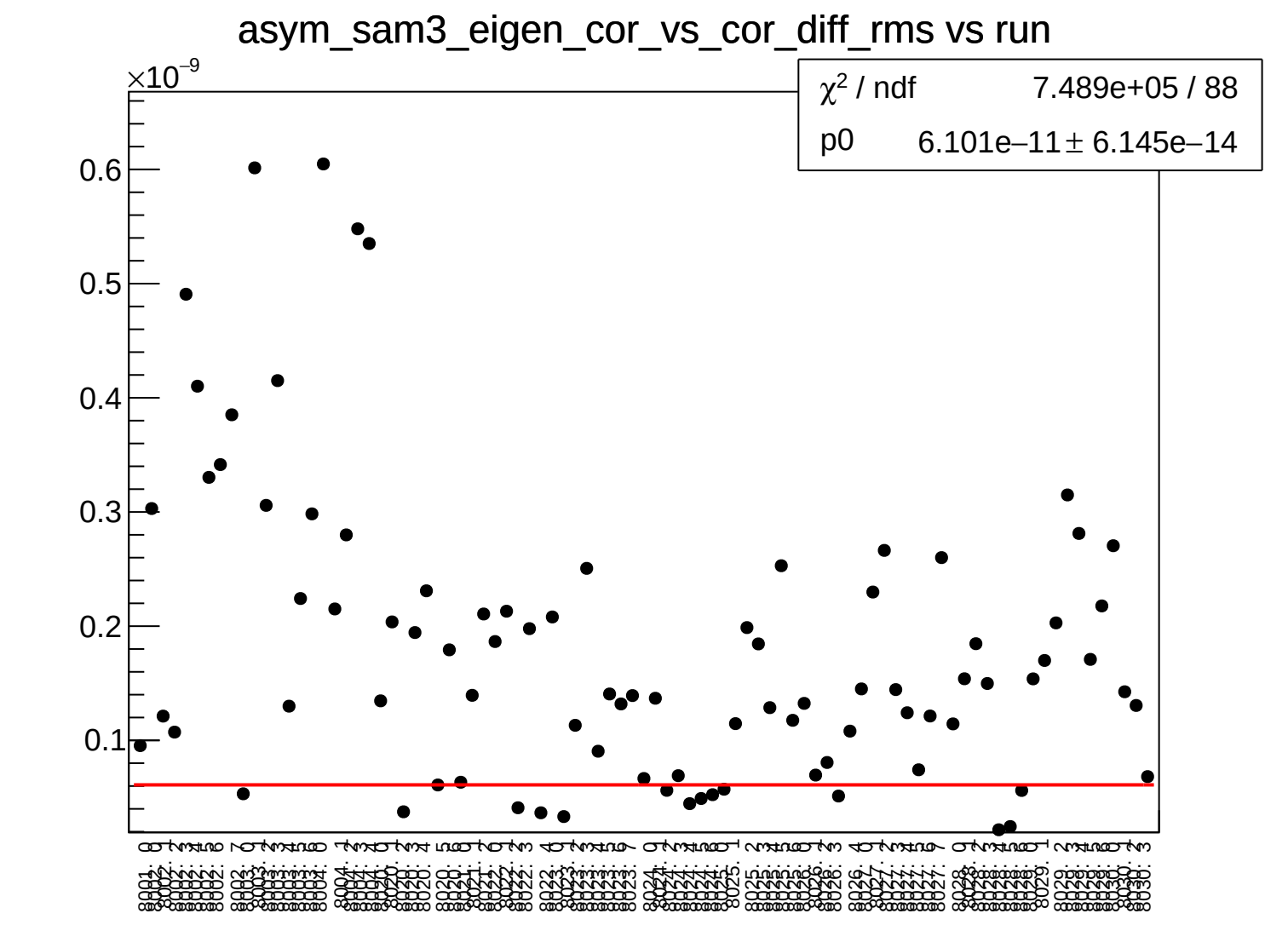

asym_sam3_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.78 / 88
p0 0.05587 ± 0.09253
pull
Entries 89
Mean 95.02
Std Dev 0
pull1D
Entries 89
Mean −0.05107
Std Dev 0.963

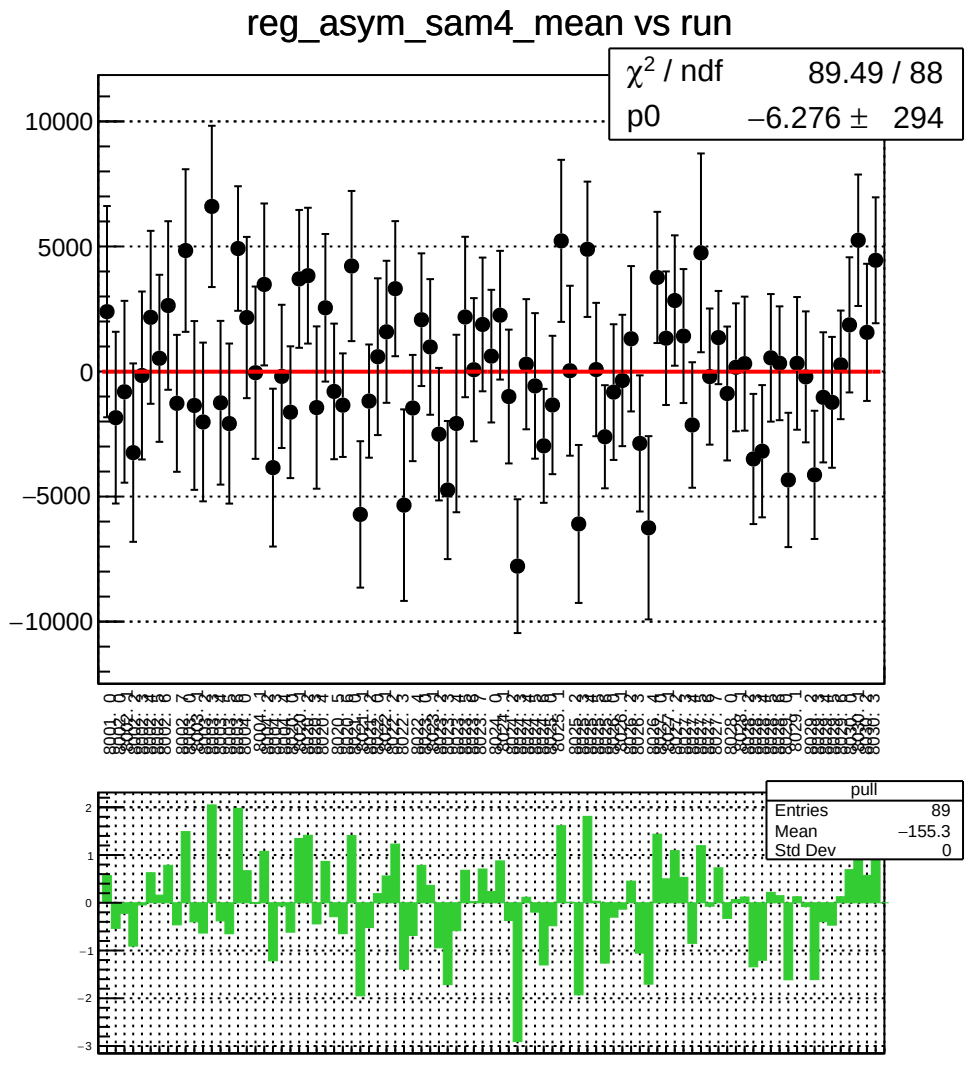

asym_sam3_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.927e+05 / 88
p0 75.8 ± 0.06543
600
500
400
300
200
100

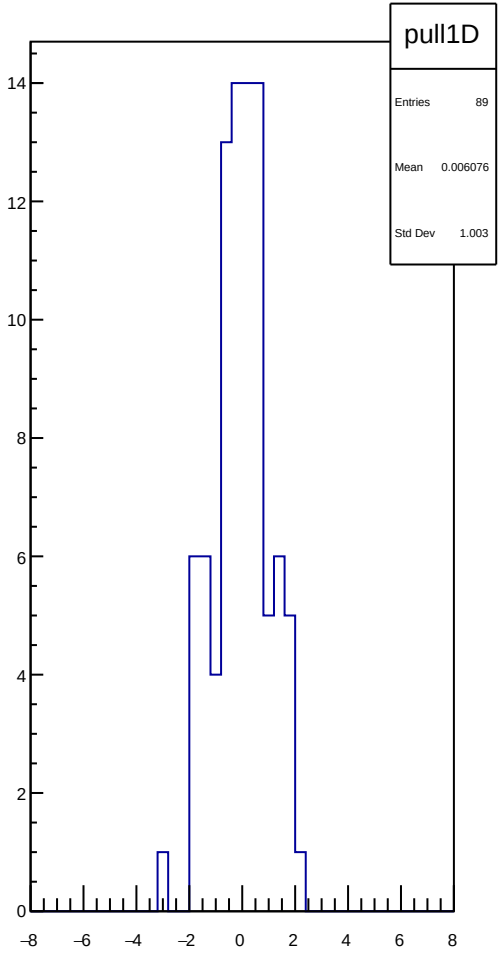

asym_sam3_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.78 / 88
p0 0.05587 ± 0.09253
pull
Entries 89
Mean 95.02
Std Dev 0
pull1D
Entries 89
Mean −0.05107
Std Dev 0.963

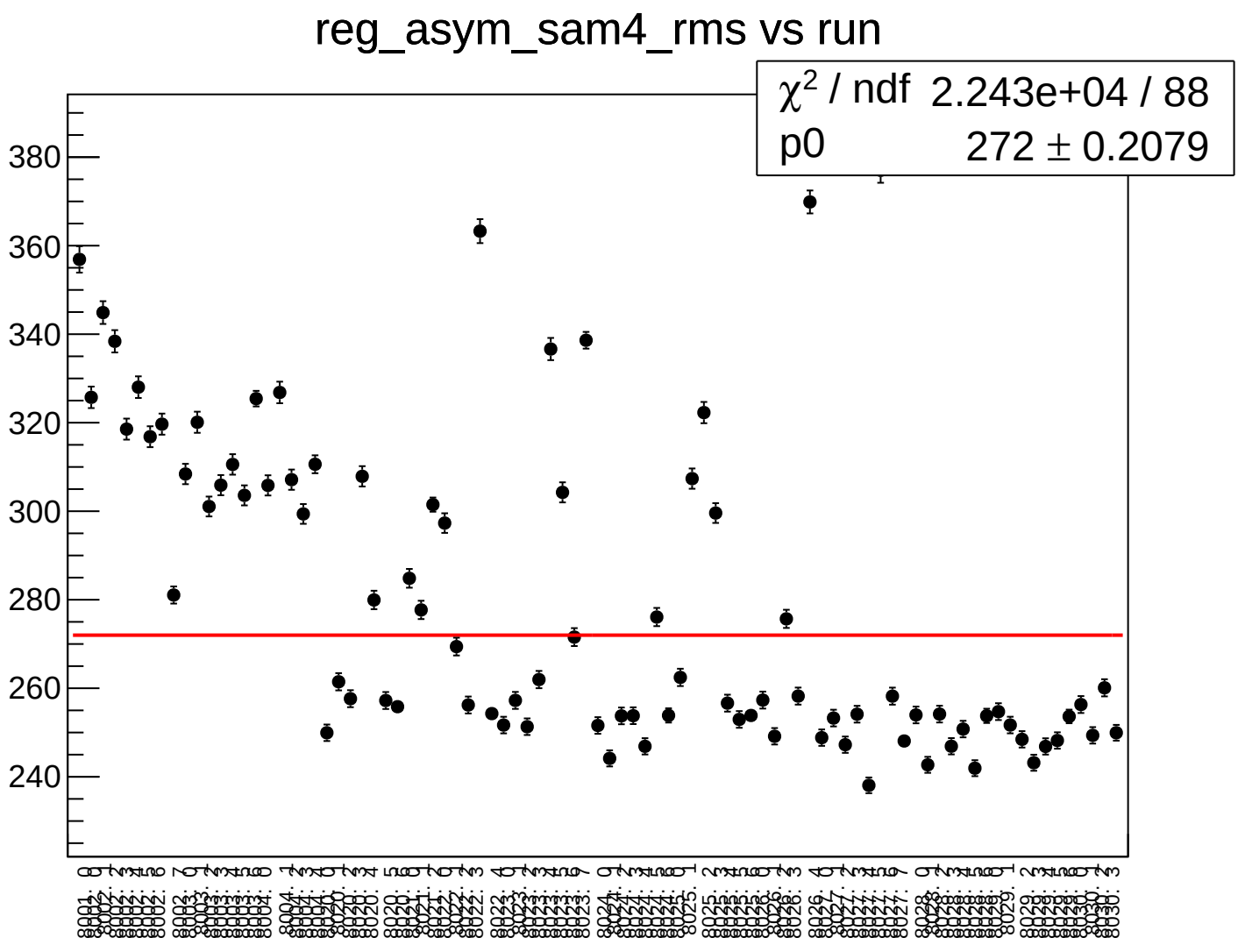

asym_sam3_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.927e+05 / 88
p0 75.8 ± 0.06543
600
500
400
300
200
100

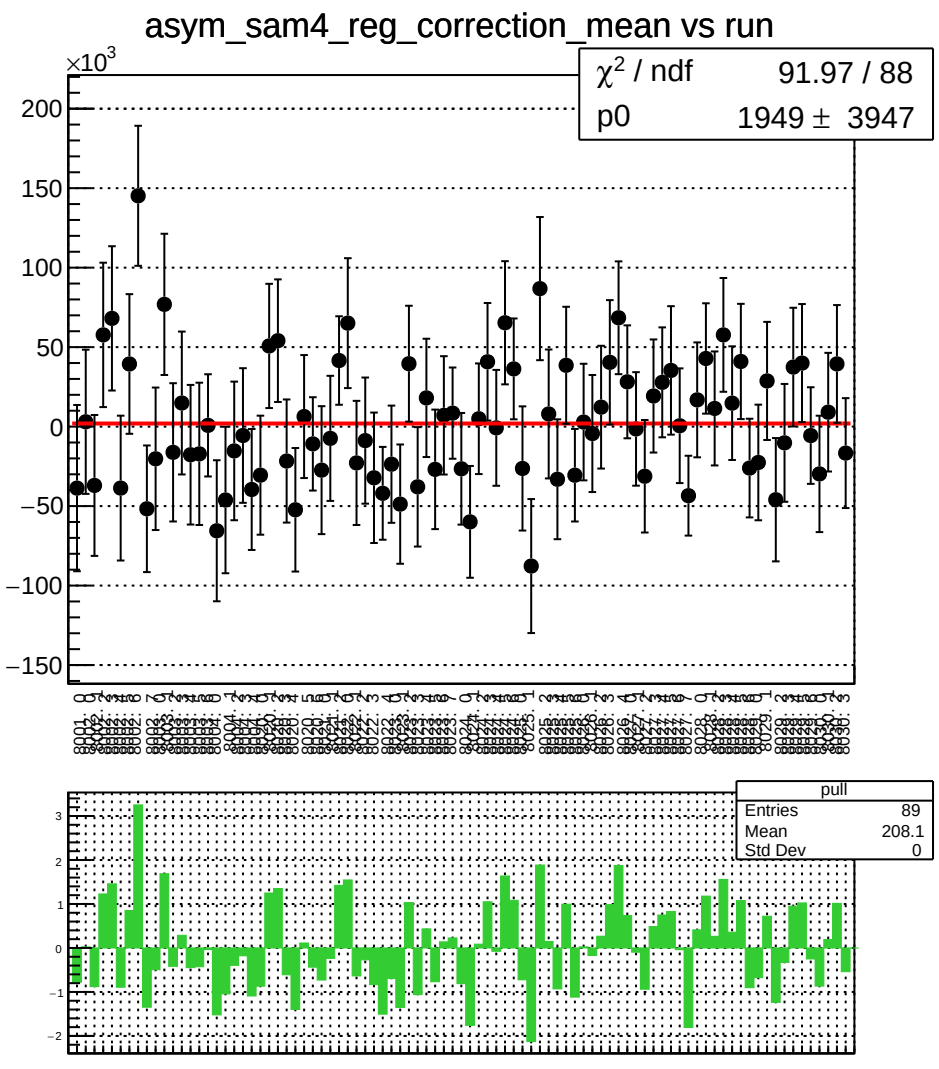

asym_sam3_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.77 / 88
p0 1.609e−13 ± 8.69e−14
pull
Entries 89
Mean 114.3
Std Dev 0
pull1D
Entries 89
Mean 0.02236
Std Dev 1.004

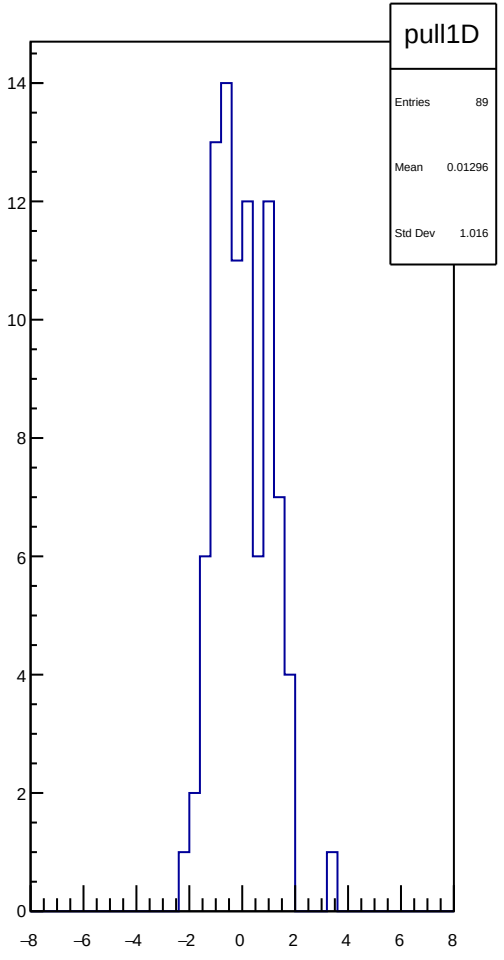

asym_sam3_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.489e+05 / 88
p0 6.101e−11 ± 6.145e−14
0.6
0.5
0.4
0.3
0.2
0.1

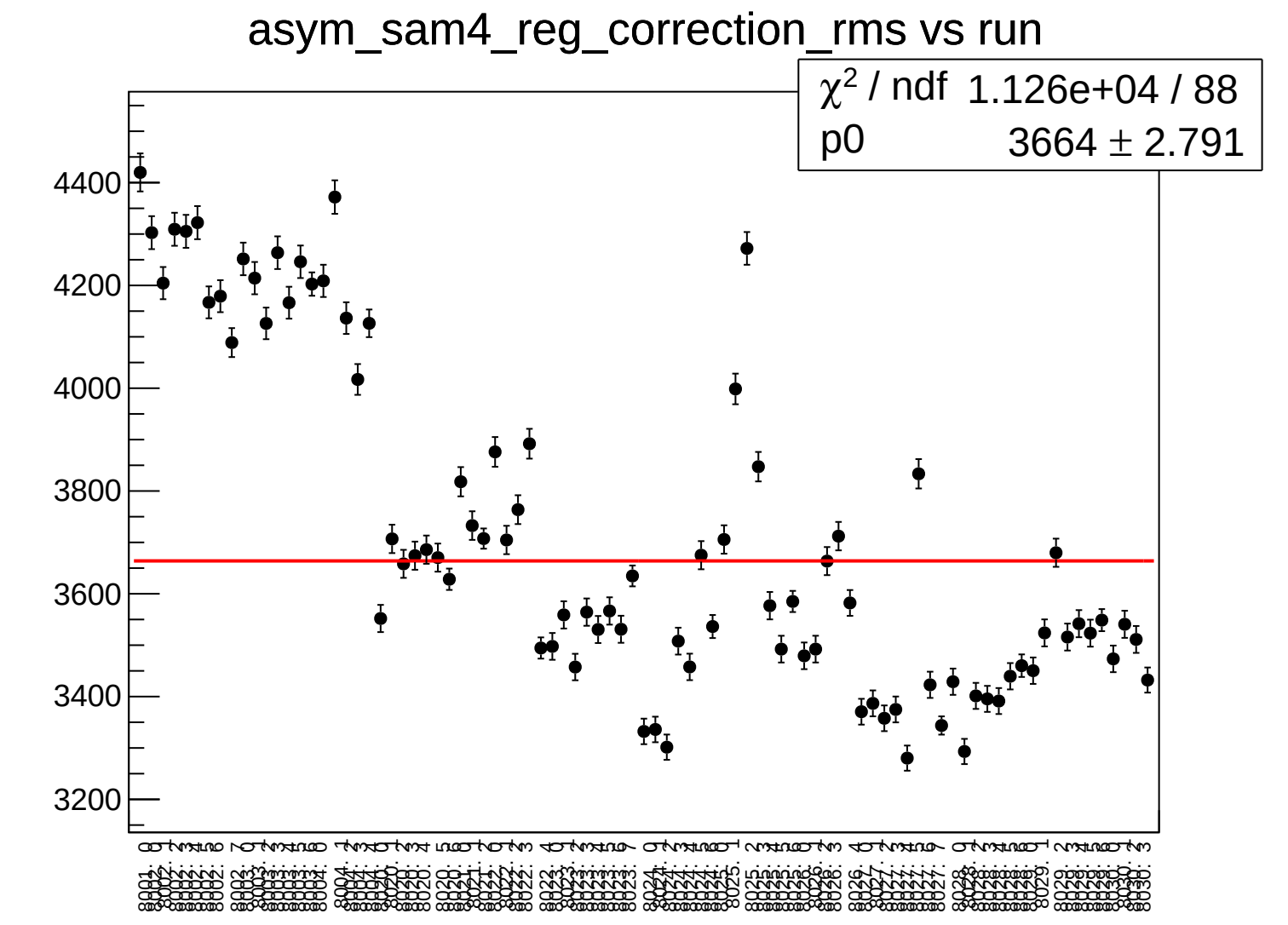

reg_asym_sam4_mean vs run
χ² / ndf 89.49 / 88
p0 −6.276 ± 294
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −155.3
Std Dev 0
2
1
0
−1
−2
−3

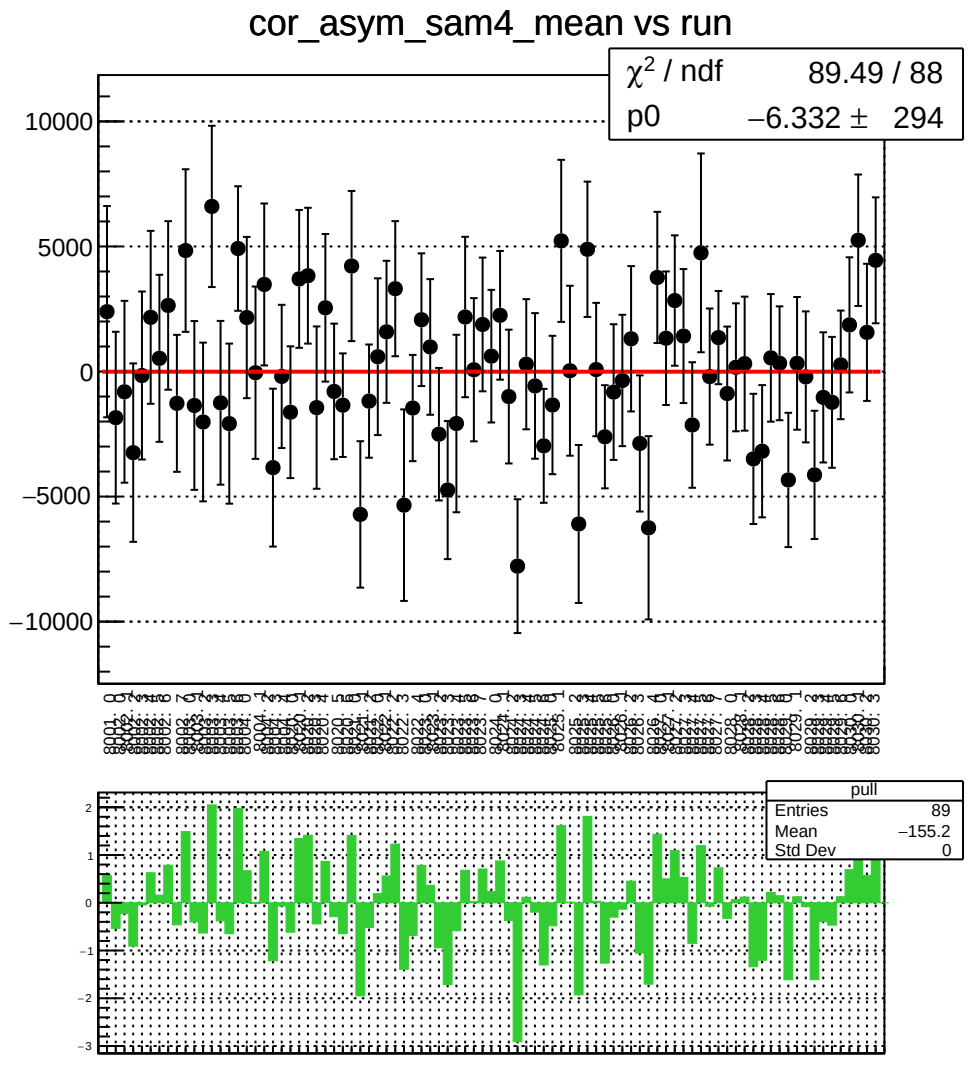

pull1D
Entries 89
Mean 0.006076
Std Dev 1.003
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

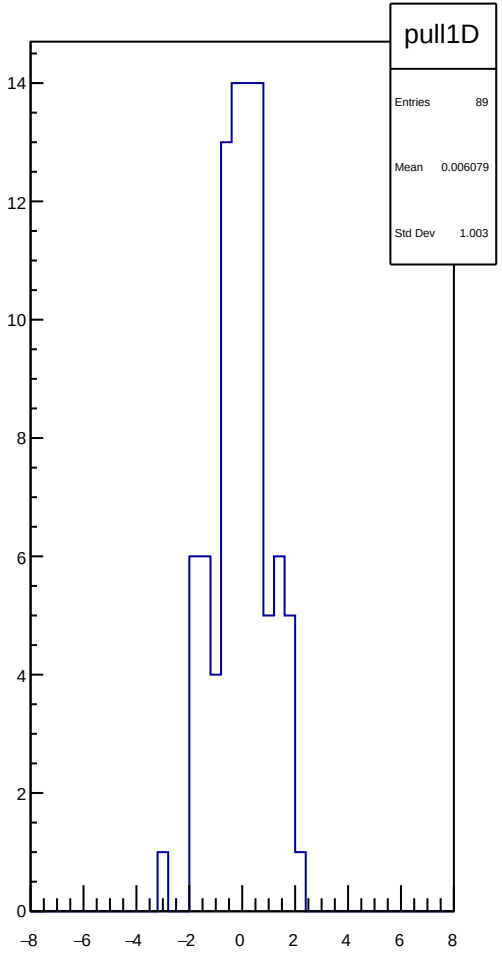

reg_asym_sam4_rms vs run
χ² / ndf 2.243e+04 / 88
p0 272 ± 0.2079
380
360
340
320
300
280
260
240

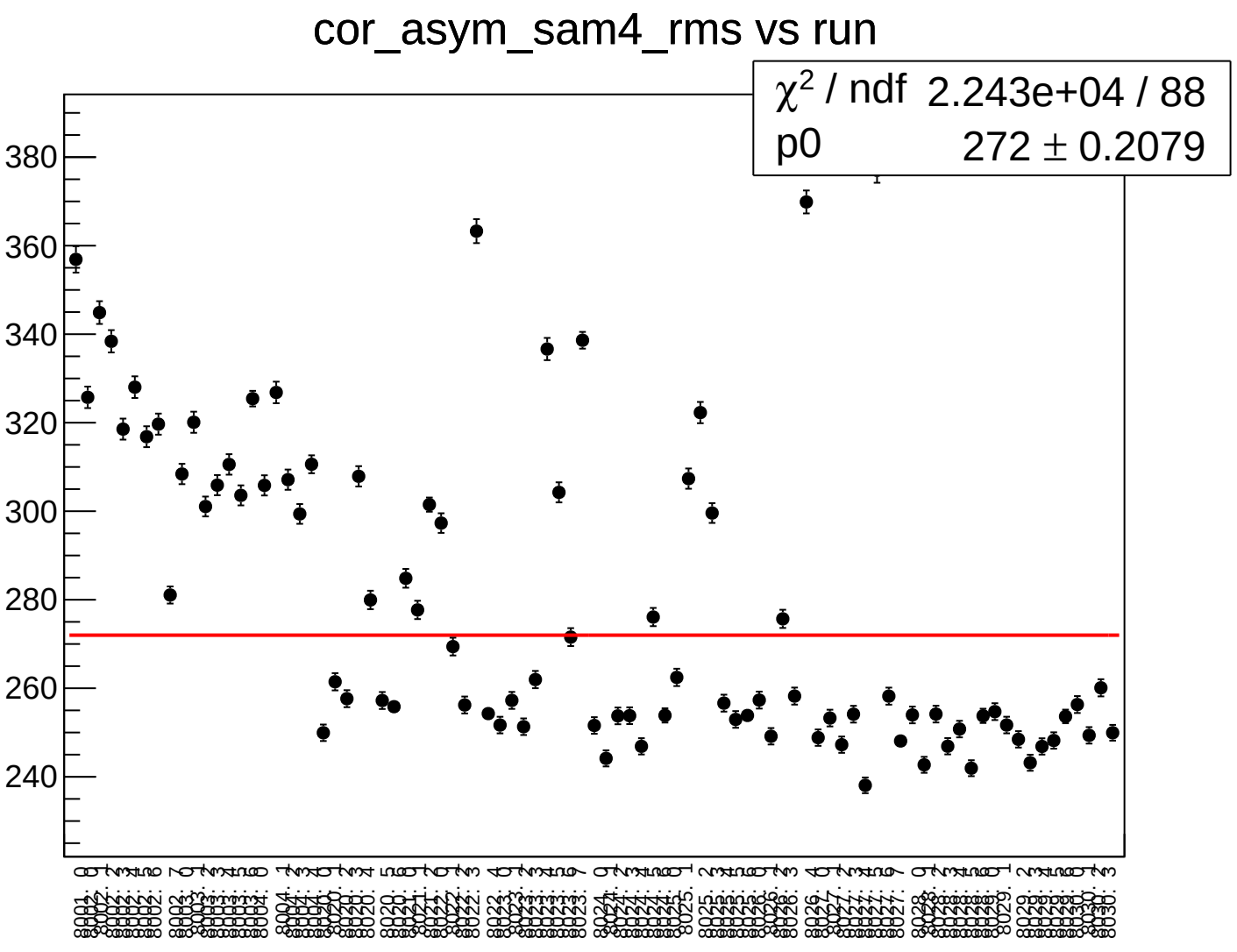

asym_sam4_reg_correction_mean vs run
×10^3
χ² / ndf 91.97 / 88
p0 1949 ± 3947
pull
Entries 89
Mean 208.1
Std Dev 0

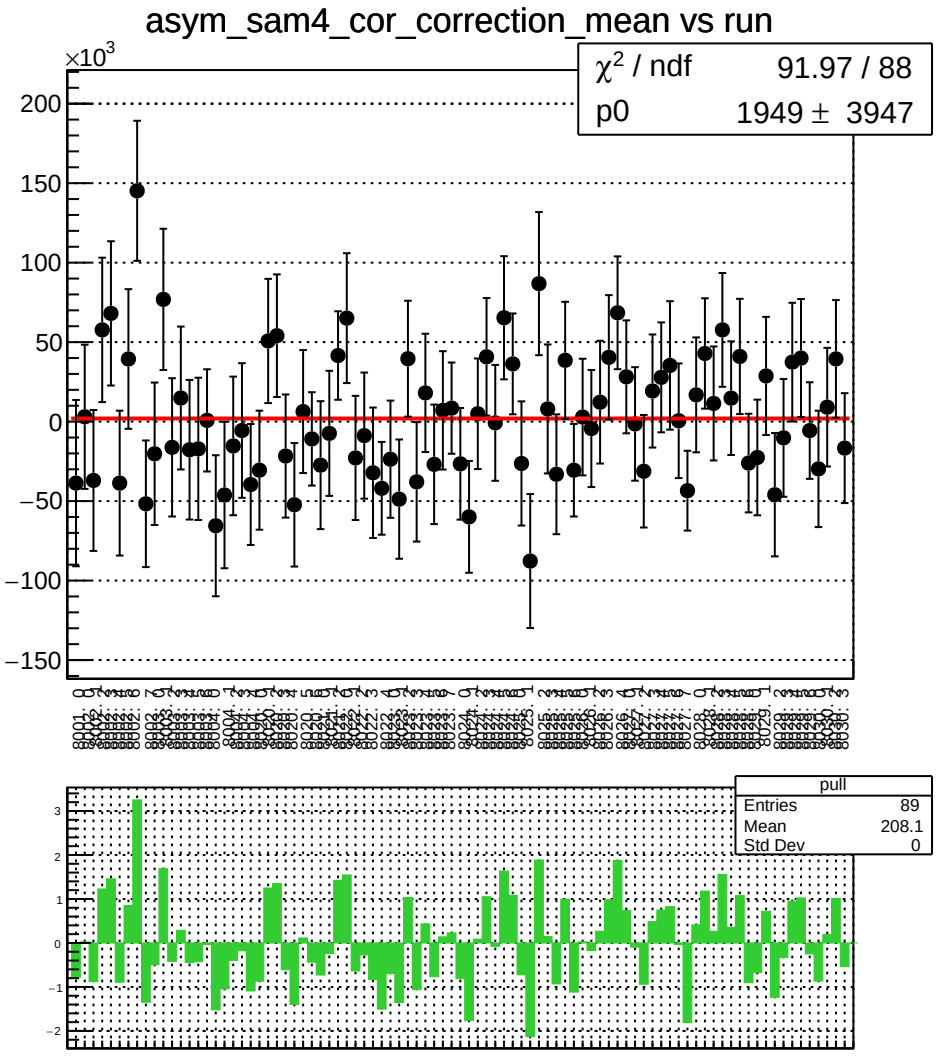

pull1D
Entries 89
Mean 0.01296
Std Dev 1.016

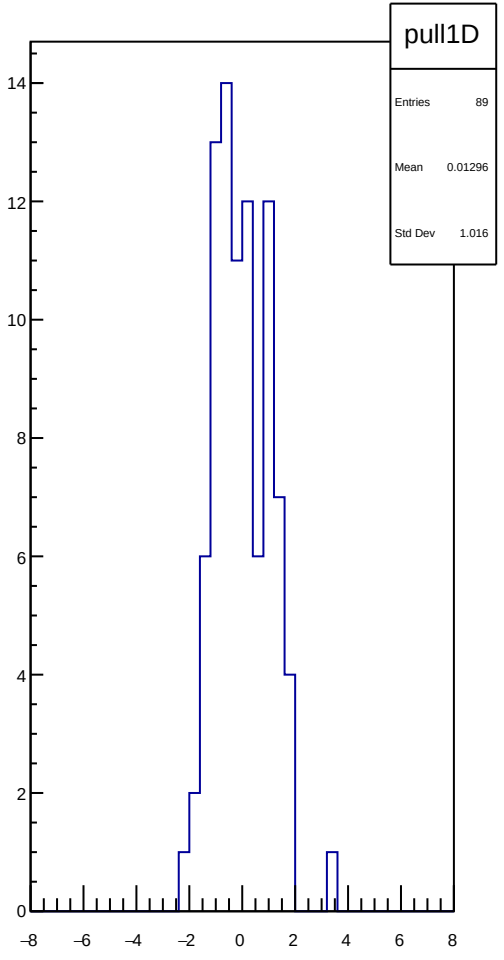

asym_sam4_reg_correction_rms vs run
χ² / ndf 1.126e+04 / 88
p0 3664 ± 2.791
4400
4200
4000
3800
3600
3400
3200

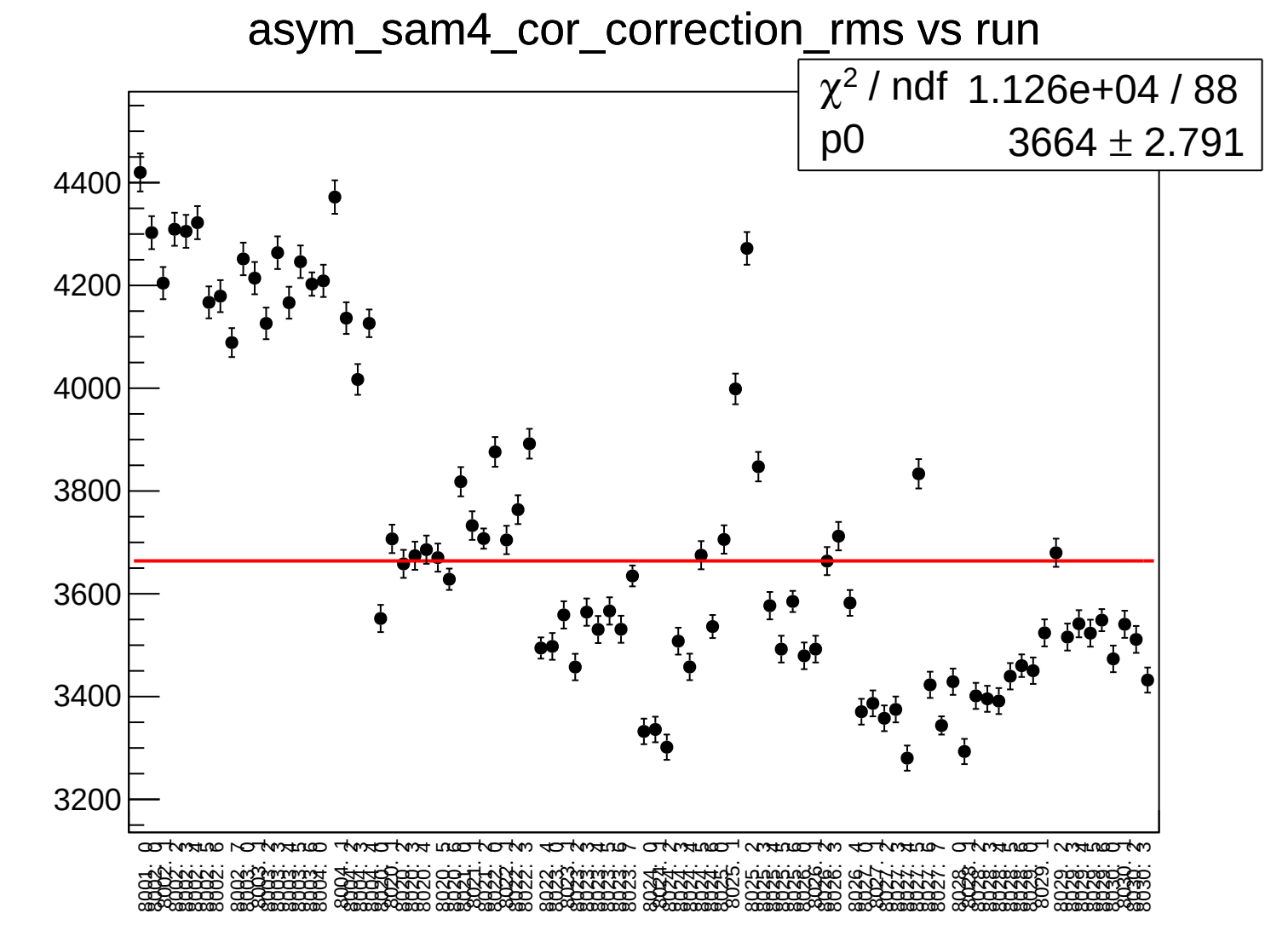

cor_asym_sam4_mean vs run
χ² / ndf 89.49 / 88
p0 −6.332 ± 294
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −155.2
Std Dev 0
2
1
0
−1
−2
−3

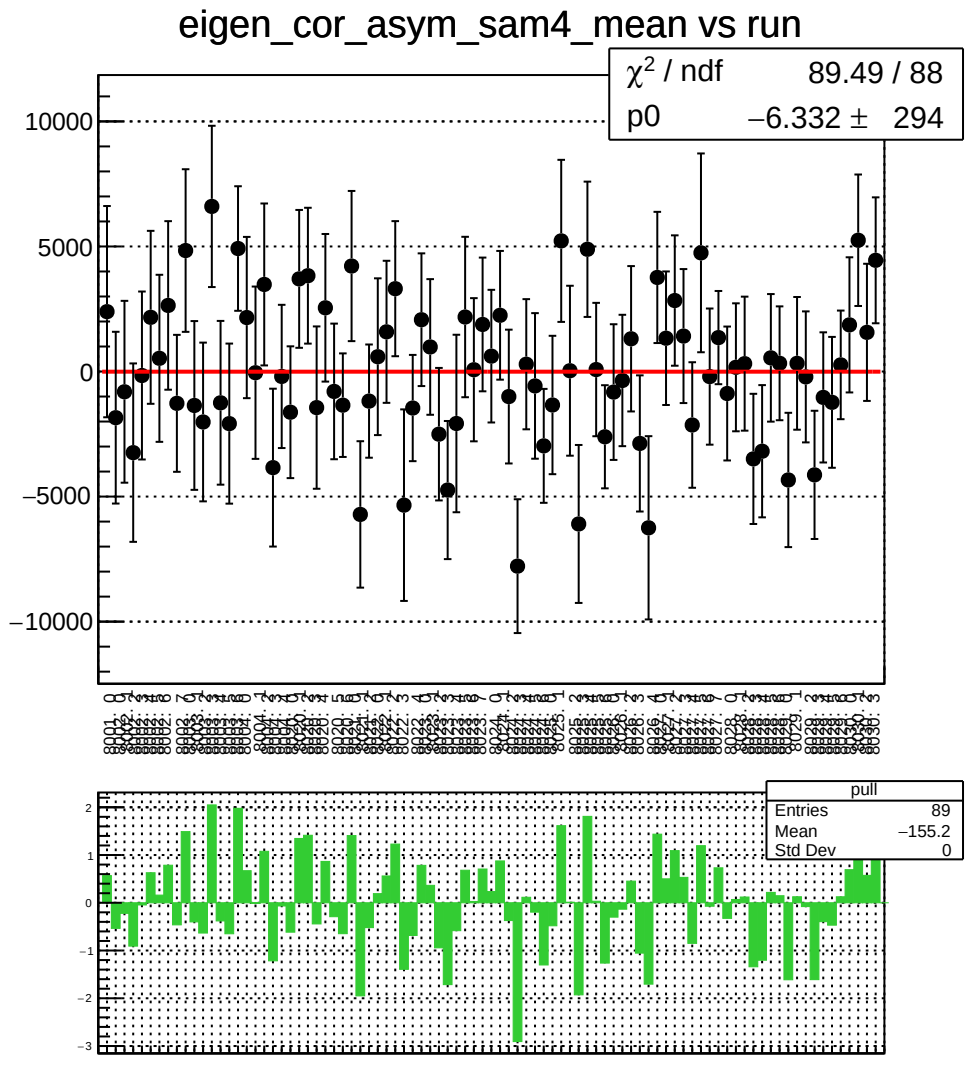

pull1D
Entries 89
Mean 0.006079
Std Dev 1.003
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

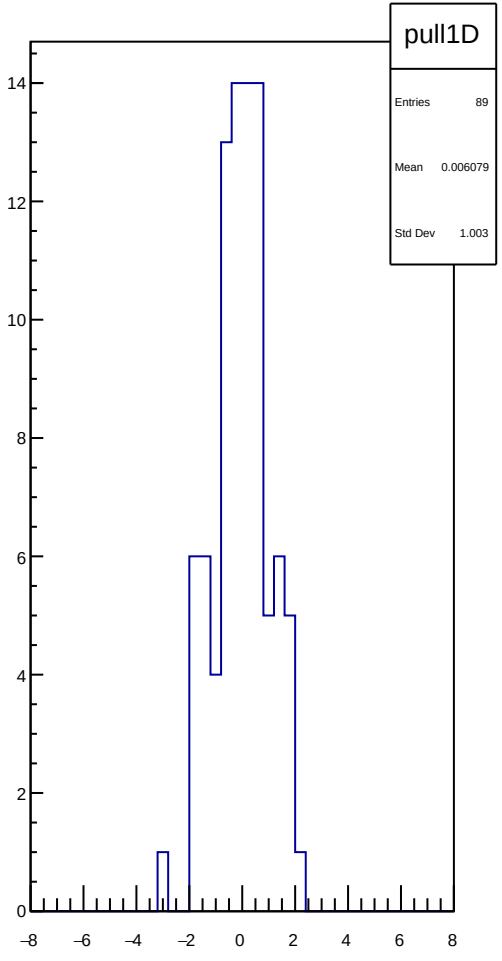

cor_asym_sam4_rms vs run
χ² / ndf 2.243e+04 / 88
p0 272 ± 0.2079
380
360
340
320
300
280
260
240

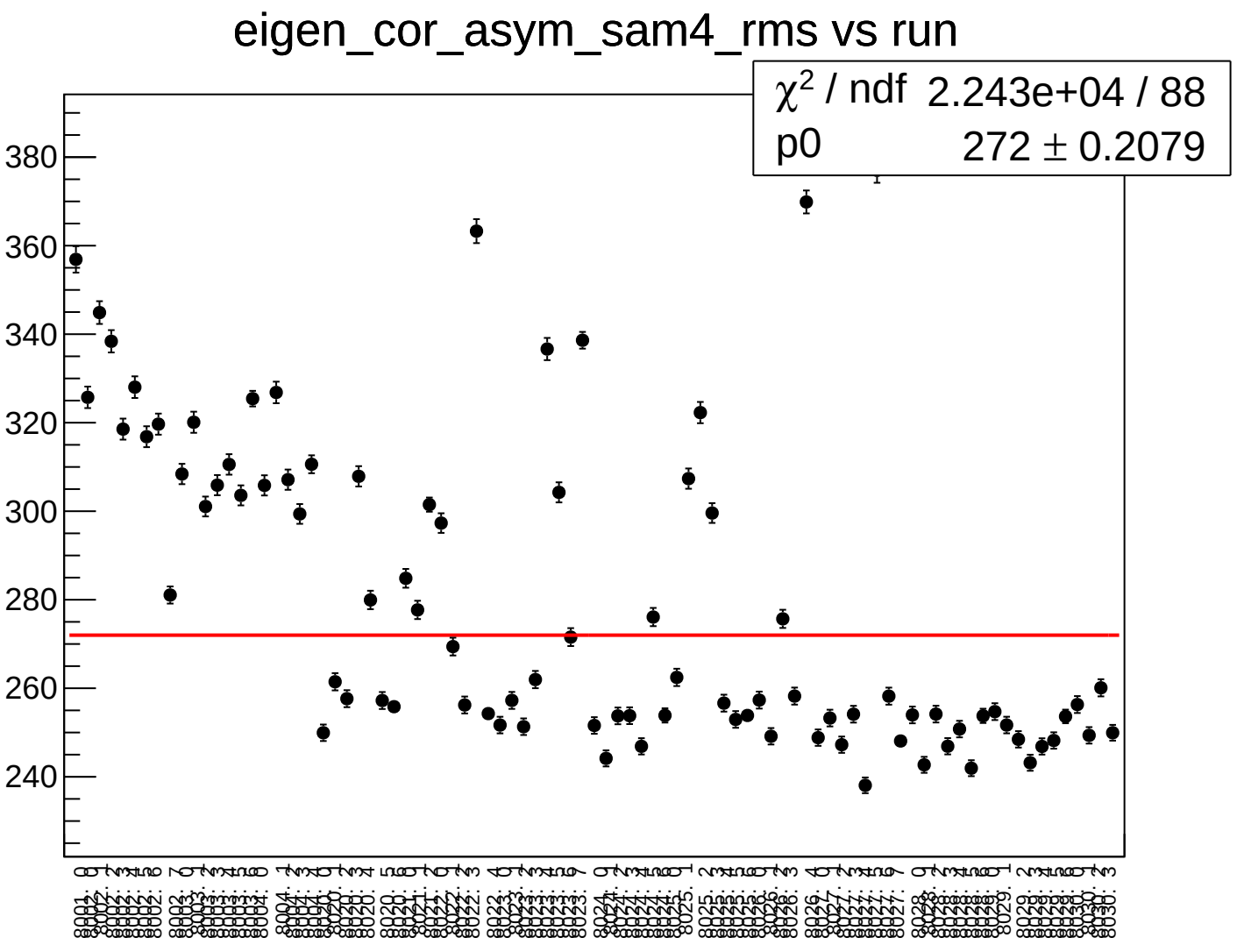

asym_sam4_cor_correction_mean vs run
×10^3
χ² / ndf 91.97 / 88
p0 1949 ± 3947
200
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean 208.1
Std Dev 0
3
2
1
0
−1
−2

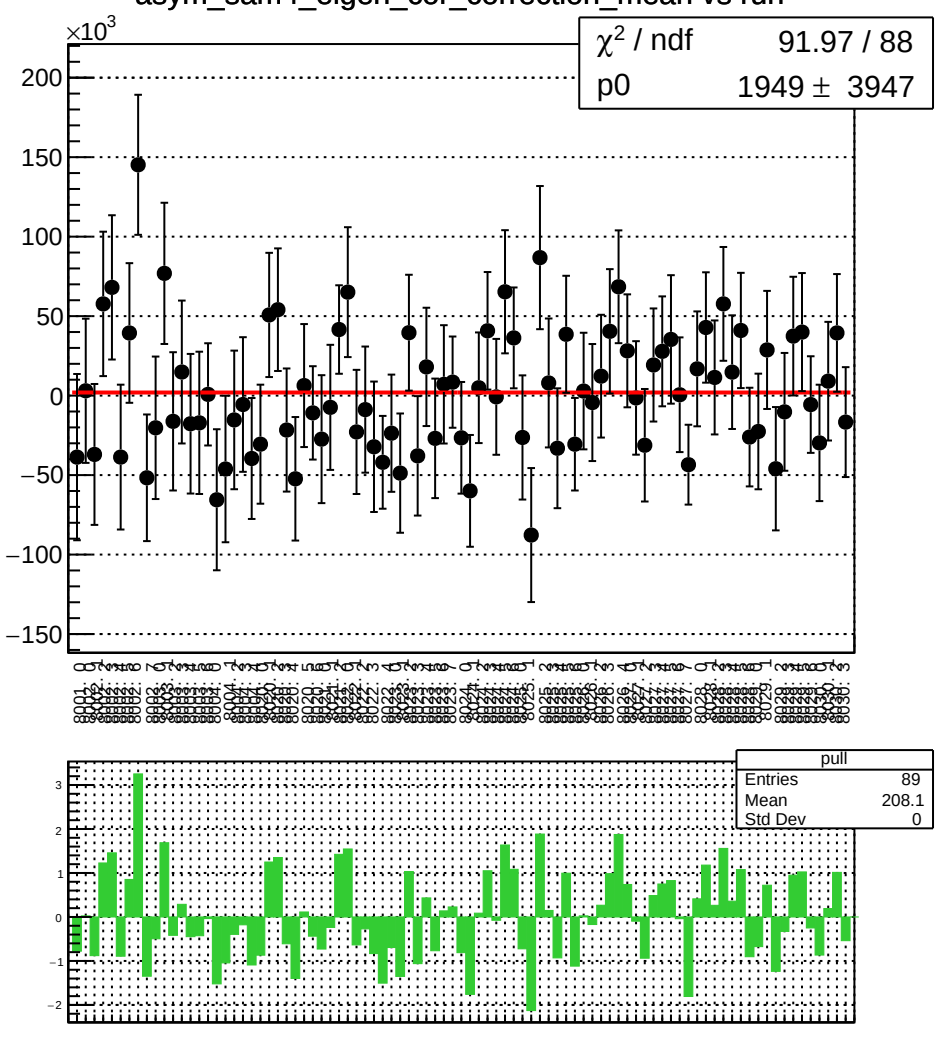

pull1D
Entries 89
Mean 0.01296
Std Dev 1.016
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

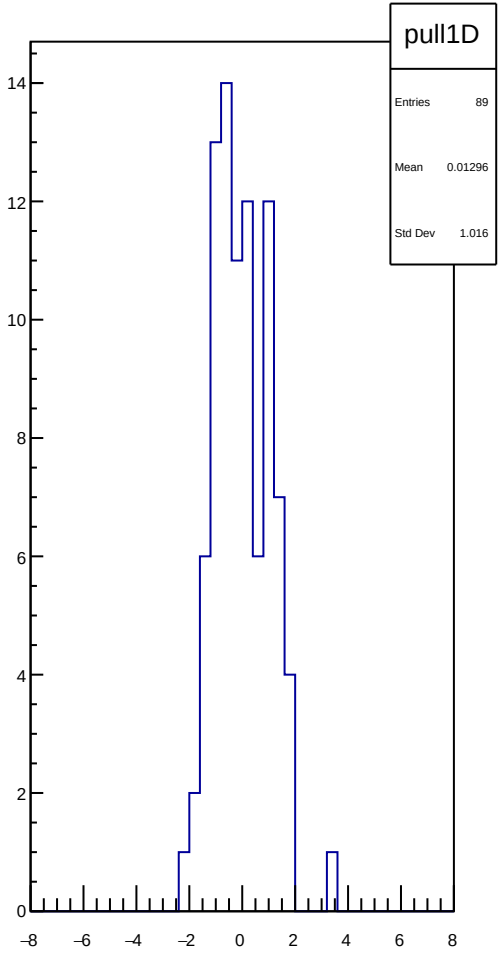

asym_sam4_cor_correction_rms vs run
χ² / ndf 1.126e+04 / 88
p0 3664 ± 2.791
4400
4200
4000
3800
3600
3400
3200

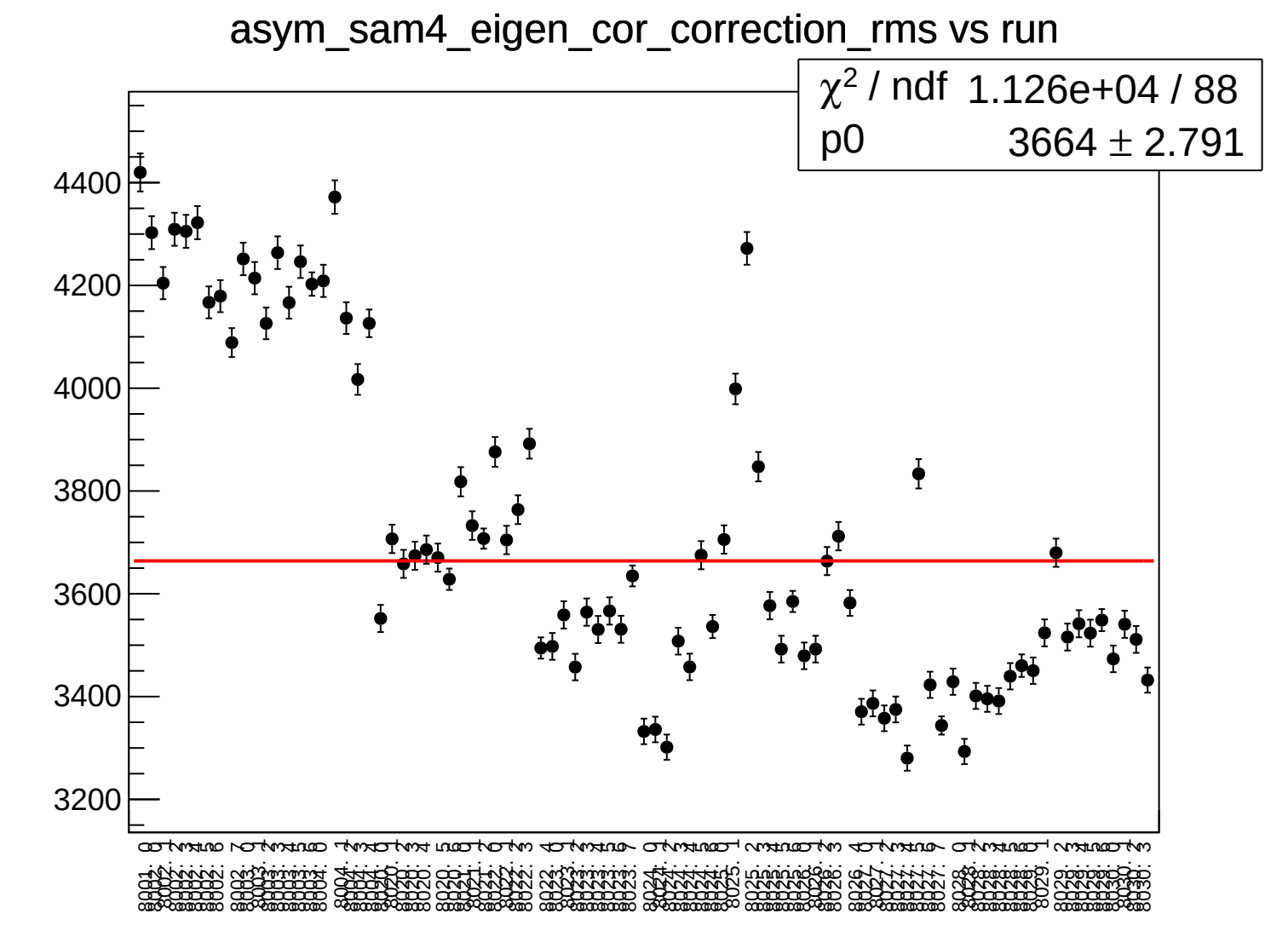

eigen_cor_asym_sam4_mean vs run
χ² / ndf 89.49 / 88
p0 −6.332 ± 294
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −155.2
Std Dev 0
2
1
0
−1
−2
−3

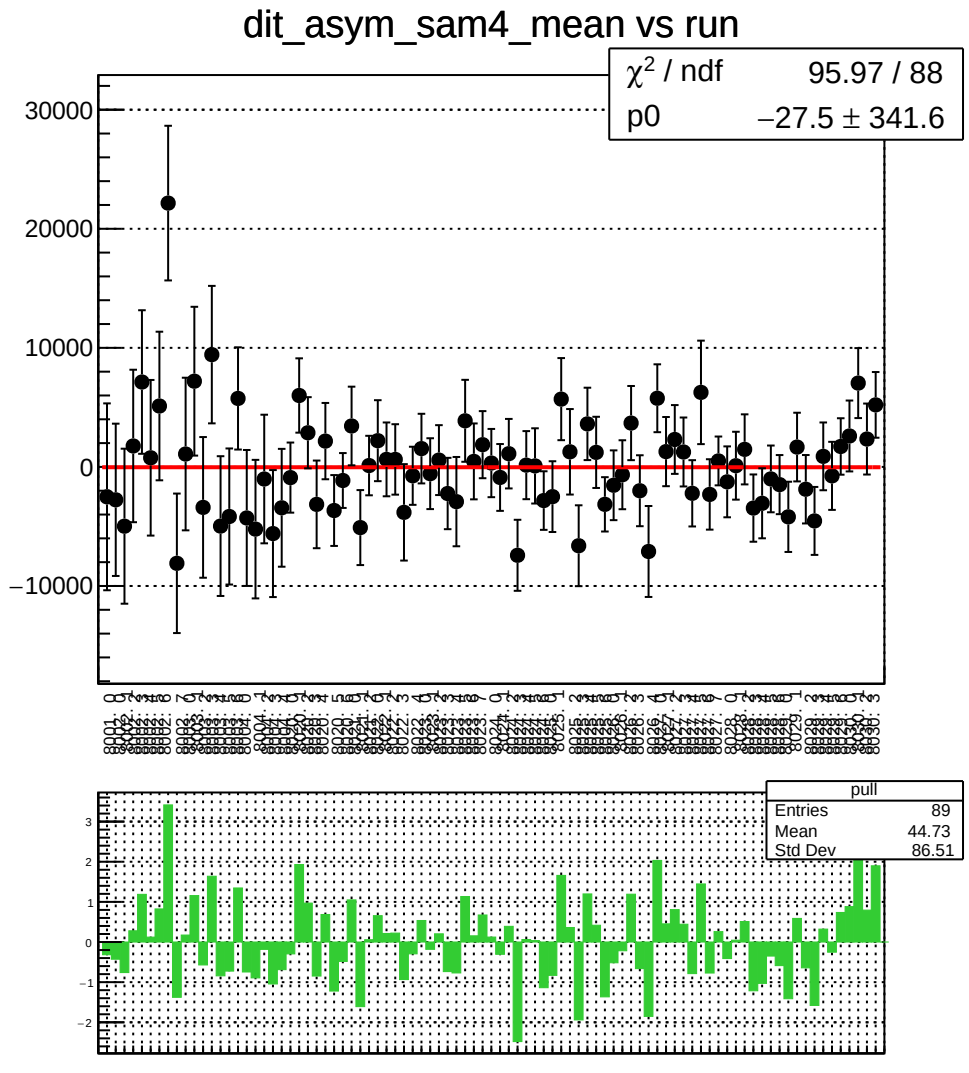

pull1D
Entries 89
Mean 0.006079
Std Dev 1.003
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

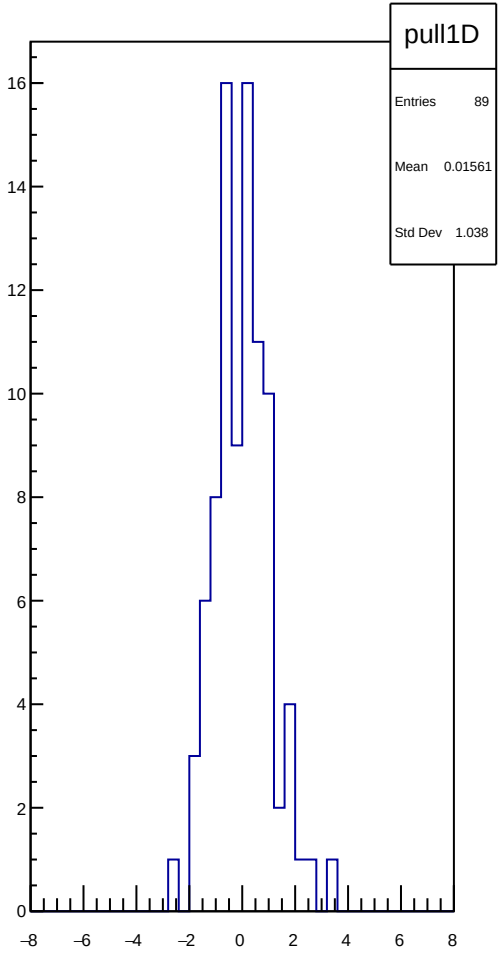

eigen_cor_asym_sam4_rms vs run
χ² / ndf 2.243e+04 / 88
p0 272 ± 0.2079
380
360
340
320
300
280
260
240

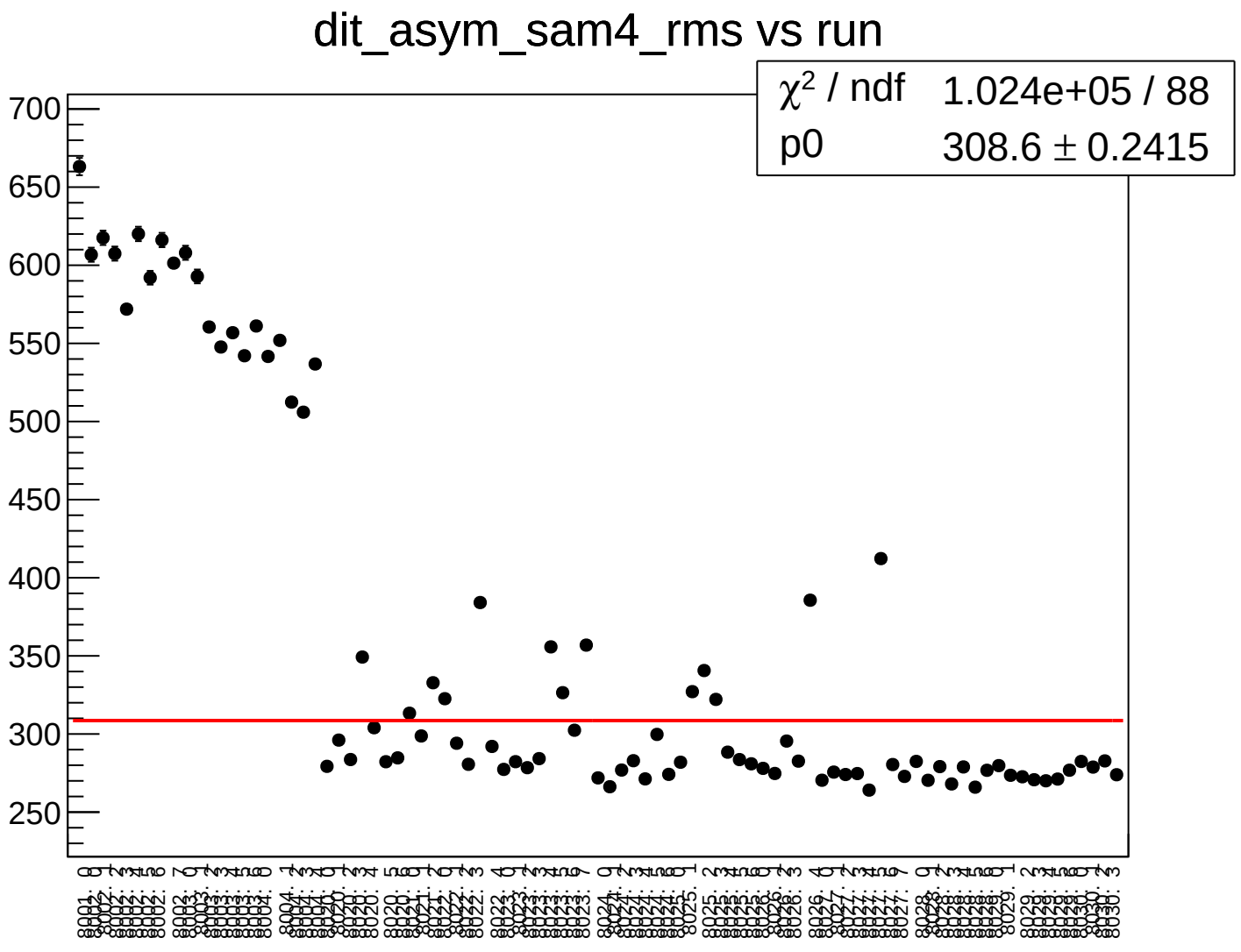

asym_sam4_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 91.97 / 88
p0 1949 ± 3947
pull
Entries 89
Mean 208.1
Std Dev 0

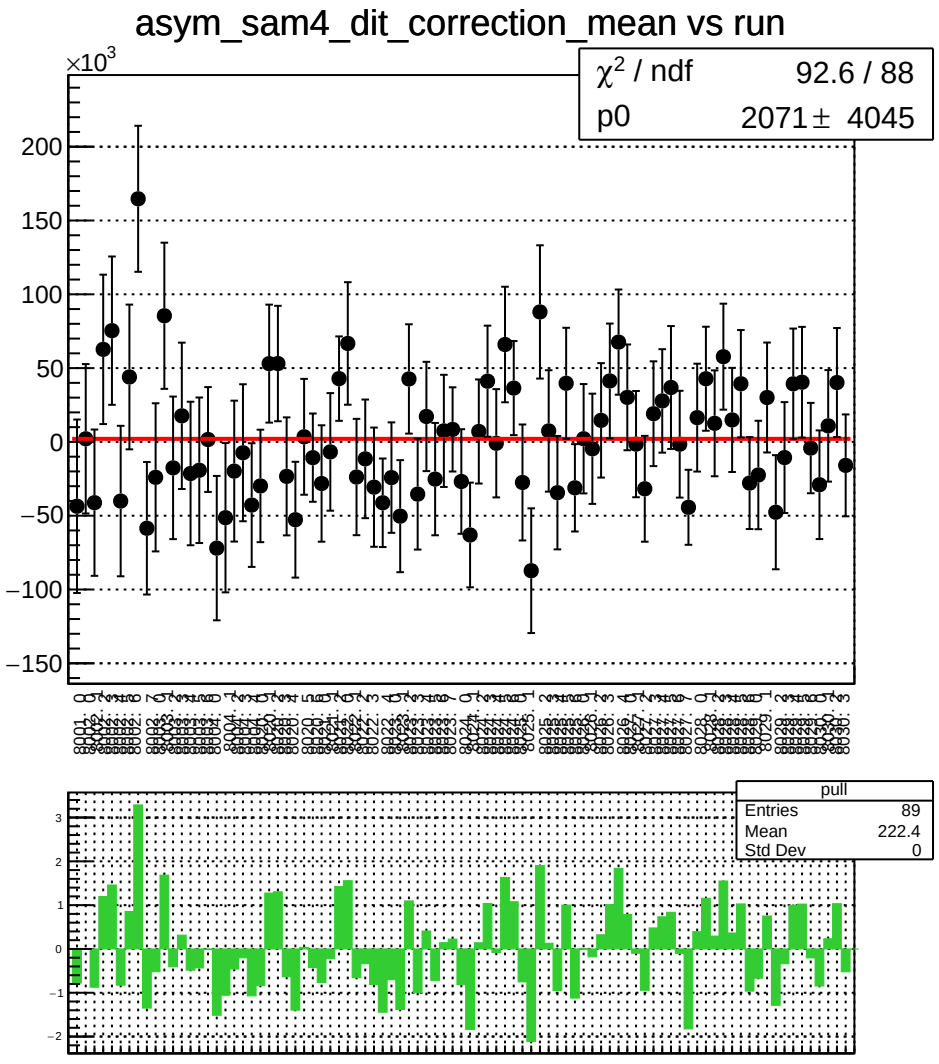

pull1D
Entries 89
Mean 0.01296
Std Dev 1.016

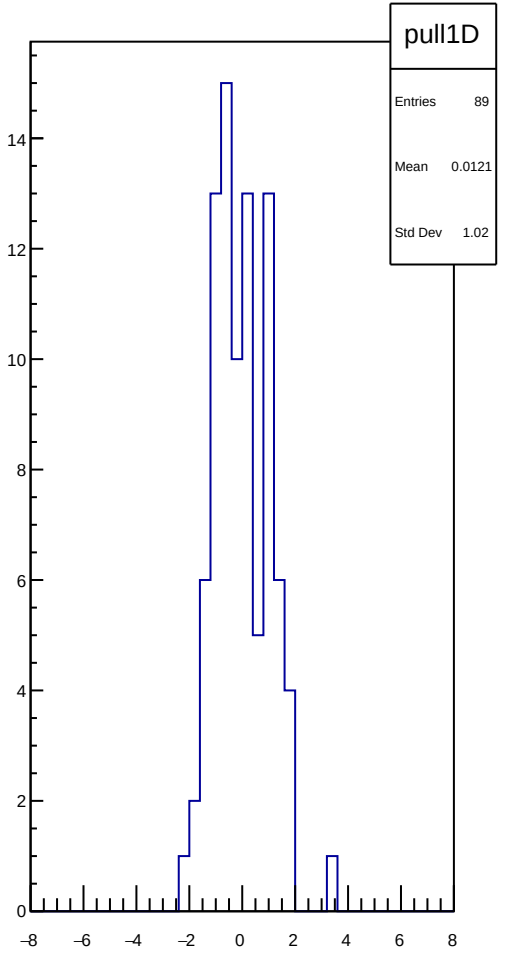

asym_sam4_eigen_cor_correction_rms vs run
χ² / ndf 1.126e+04 / 88
p0 3664 ± 2.791
4400
4200
4000
3800
3600
3400
3200

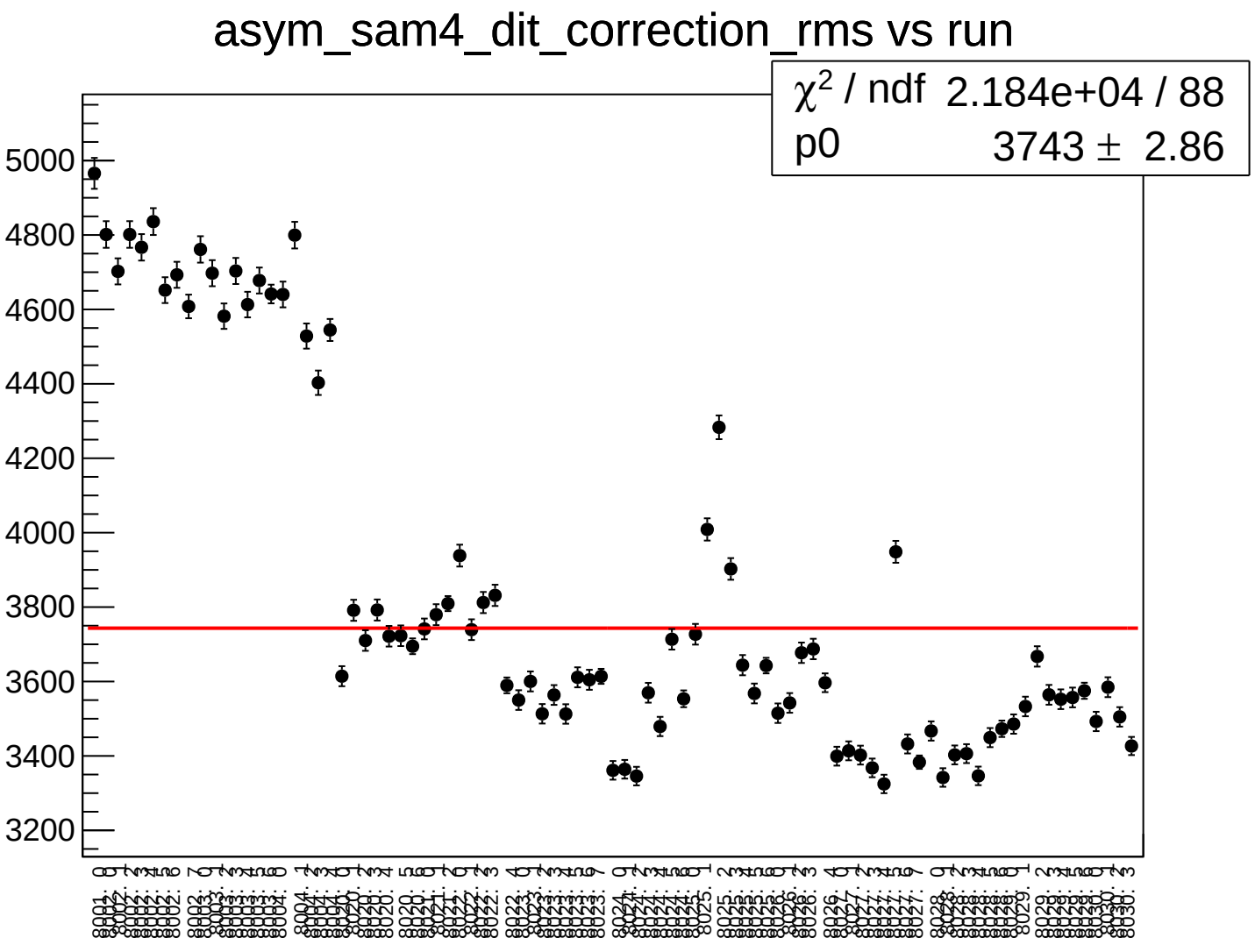

dit_asym_sam4_mean vs run
χ² / ndf 95.97 / 88
p0 −27.5 ± 341.6
30000
20000
10000
0
−10000
pull
Entries 89
Mean 44.73
Std Dev 86.51
3
2
1
0
−1
−2

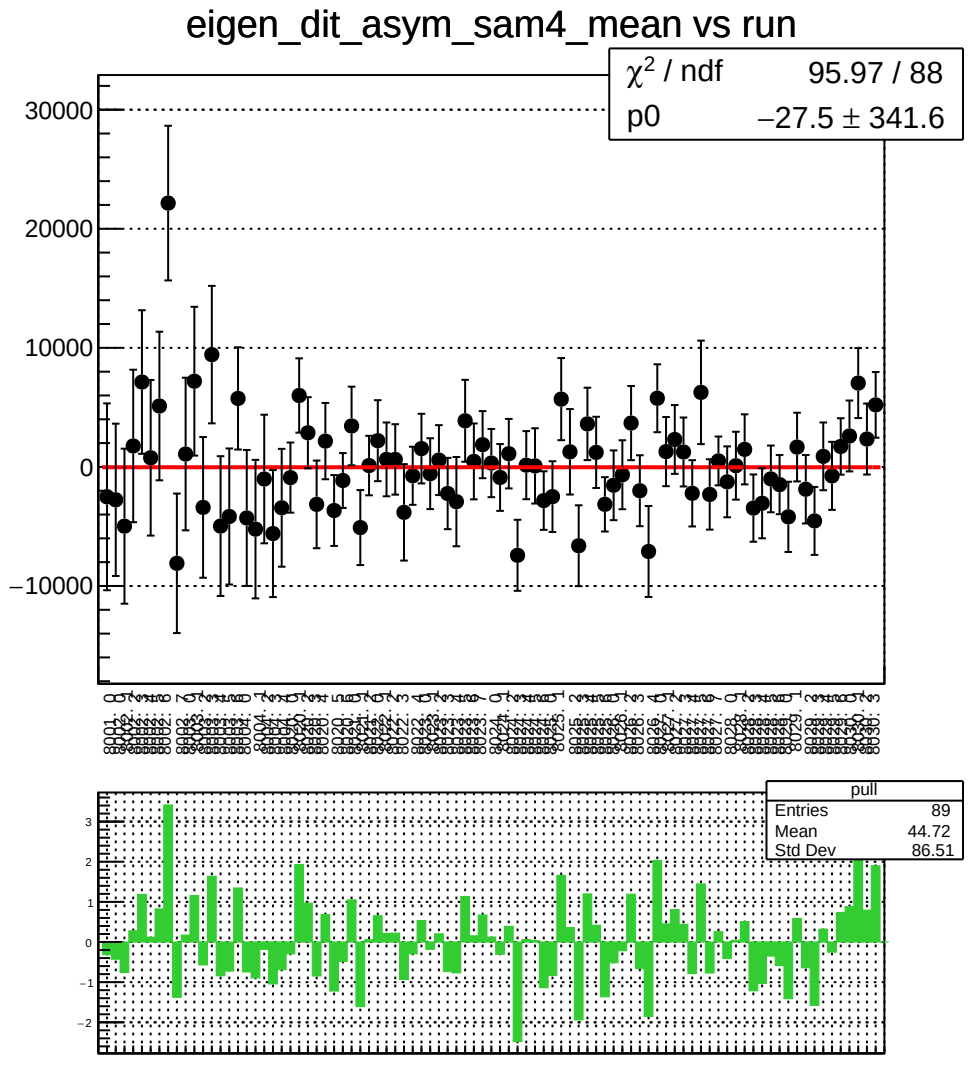

pull1D
Entries 89
Mean 0.01561
Std Dev 1.038
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

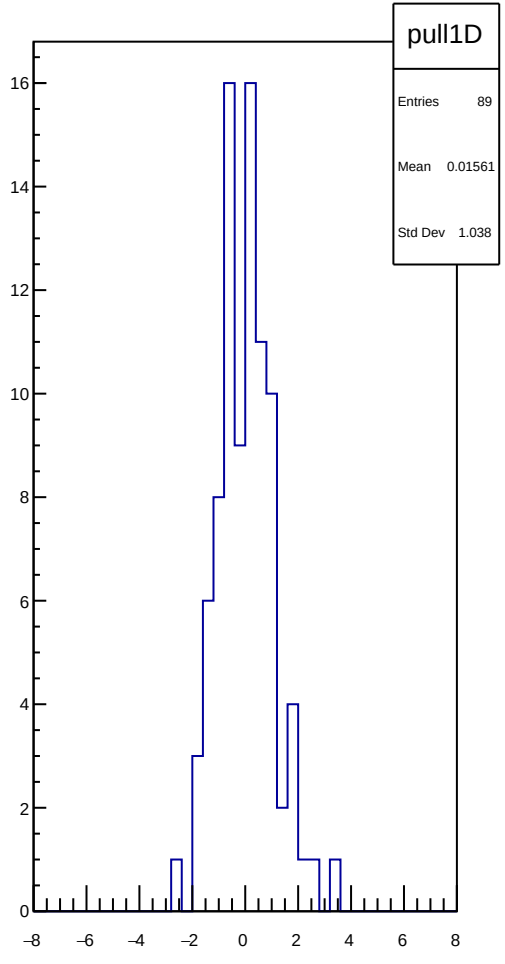

dit_asym_sam4_rms vs run
χ² / ndf 1.024e+05 / 88
p0 308.6 ± 0.2415
700
650
600
550
500
450
400
350
300
250

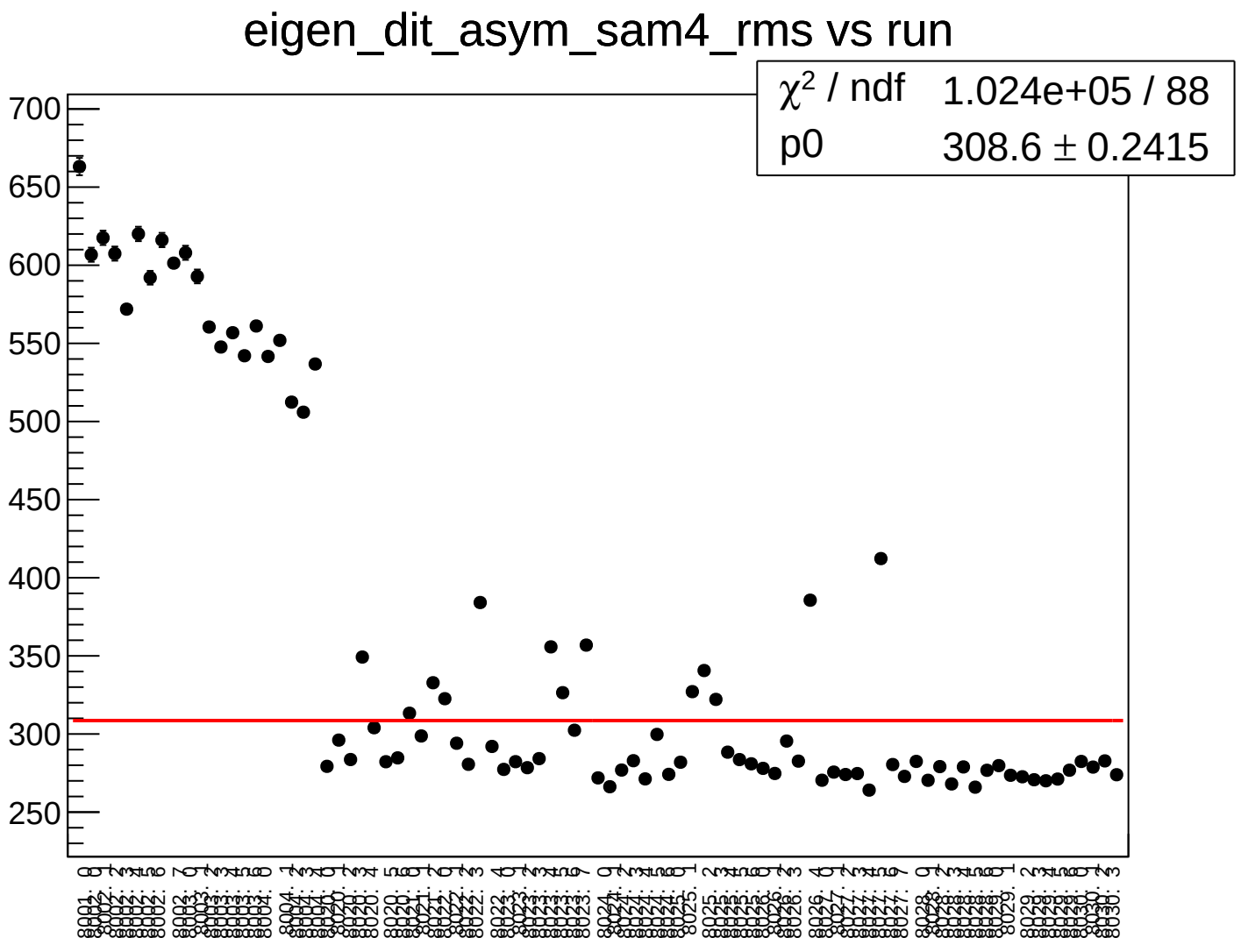

asym_sam4_dit_correction_mean vs run
×10^3
χ² / ndf 92.6 / 88
p0 2071 ± 4045
pull
Entries 89
Mean 222.4
Std Dev 0

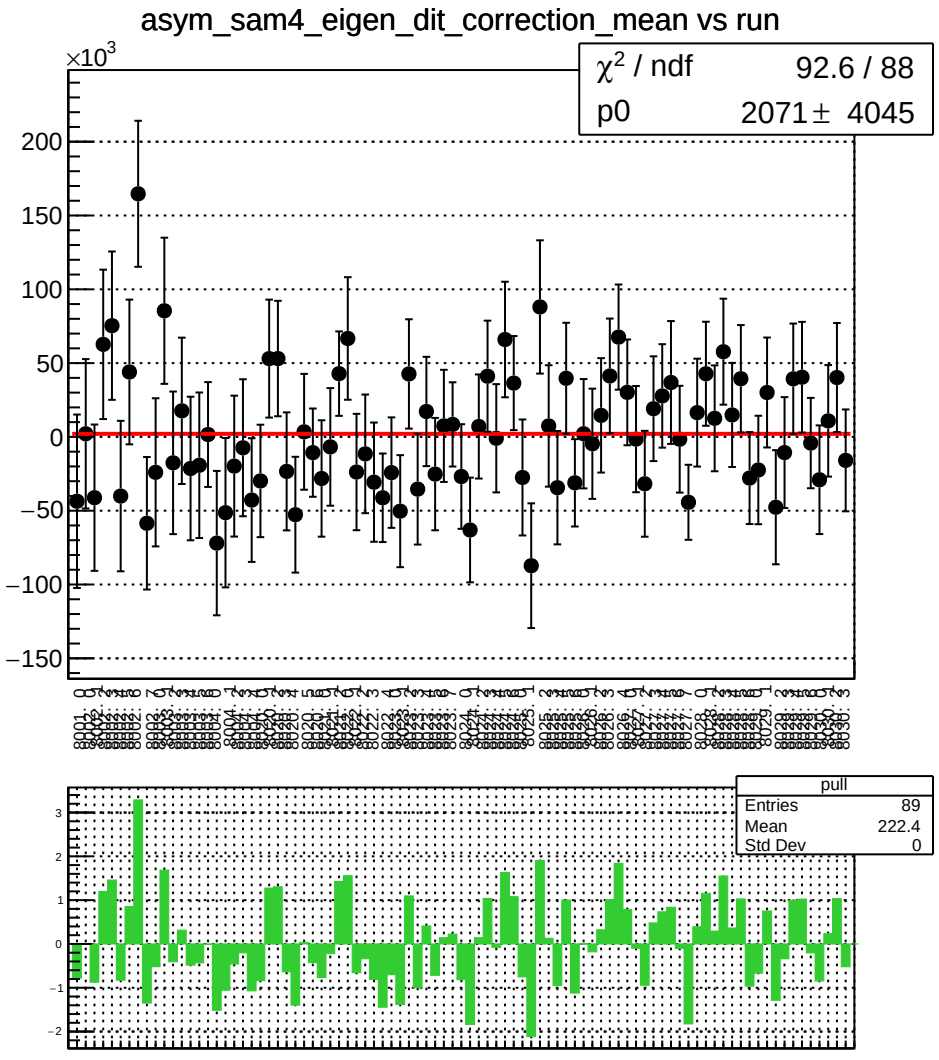

pull1D
Entries 89
Mean 0.0121
Std Dev 1.02

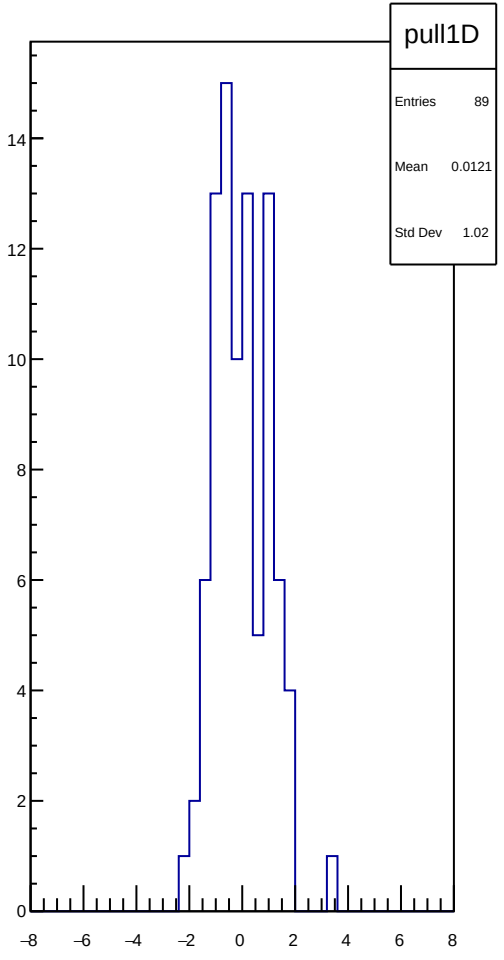

asym_sam4_dit_correction_rms vs run
χ² / ndf 2.184e+04 / 88
p0 3743 ± 2.86
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

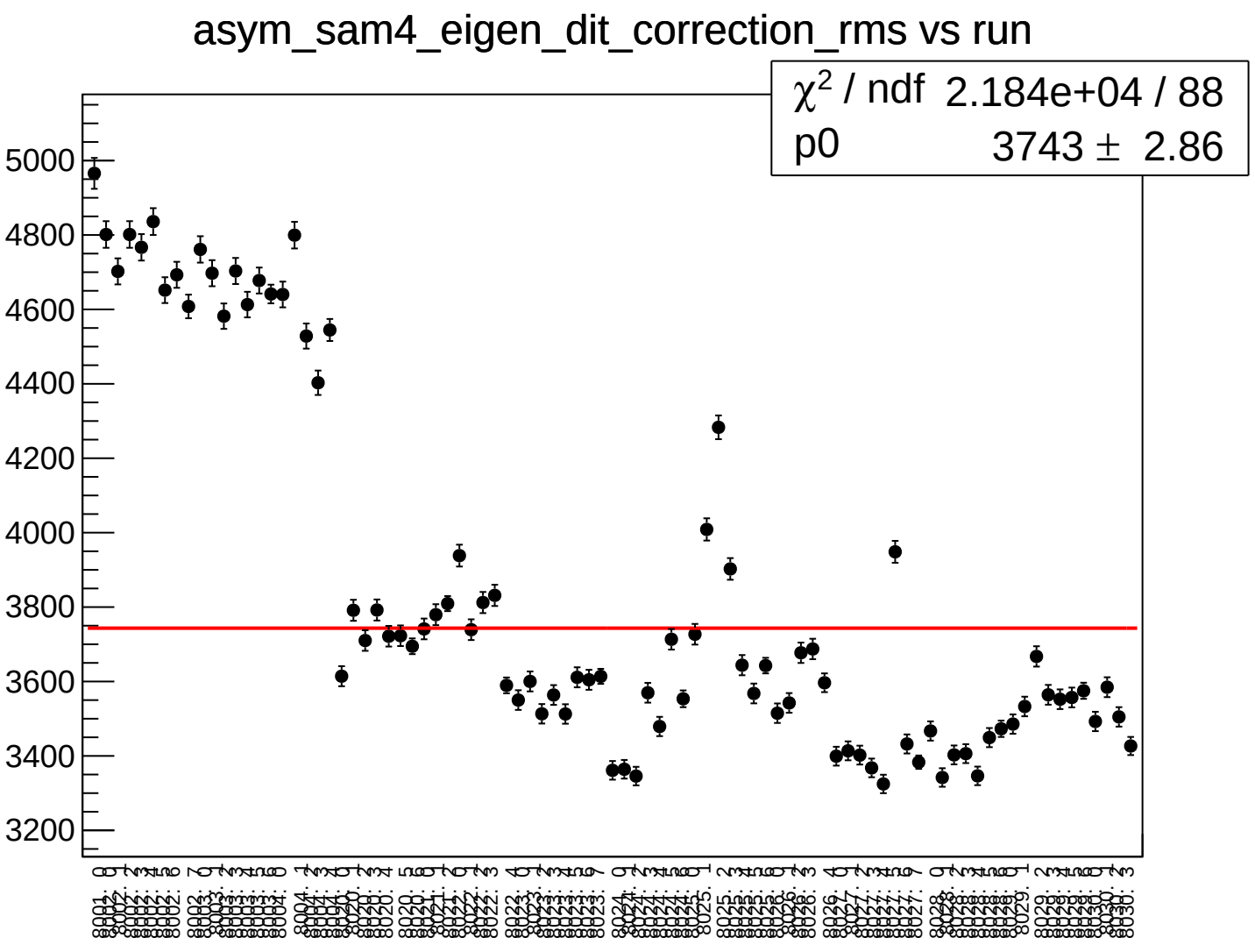

eigen_dit_asym_sam4_mean vs run
χ² / ndf 95.97 / 88
p0 −27.5 ± 341.6
30000
20000
10000
0
−10000
pull
Entries 89
Mean 44.72
Std Dev 86.51
3
2
1
0
−1
−2

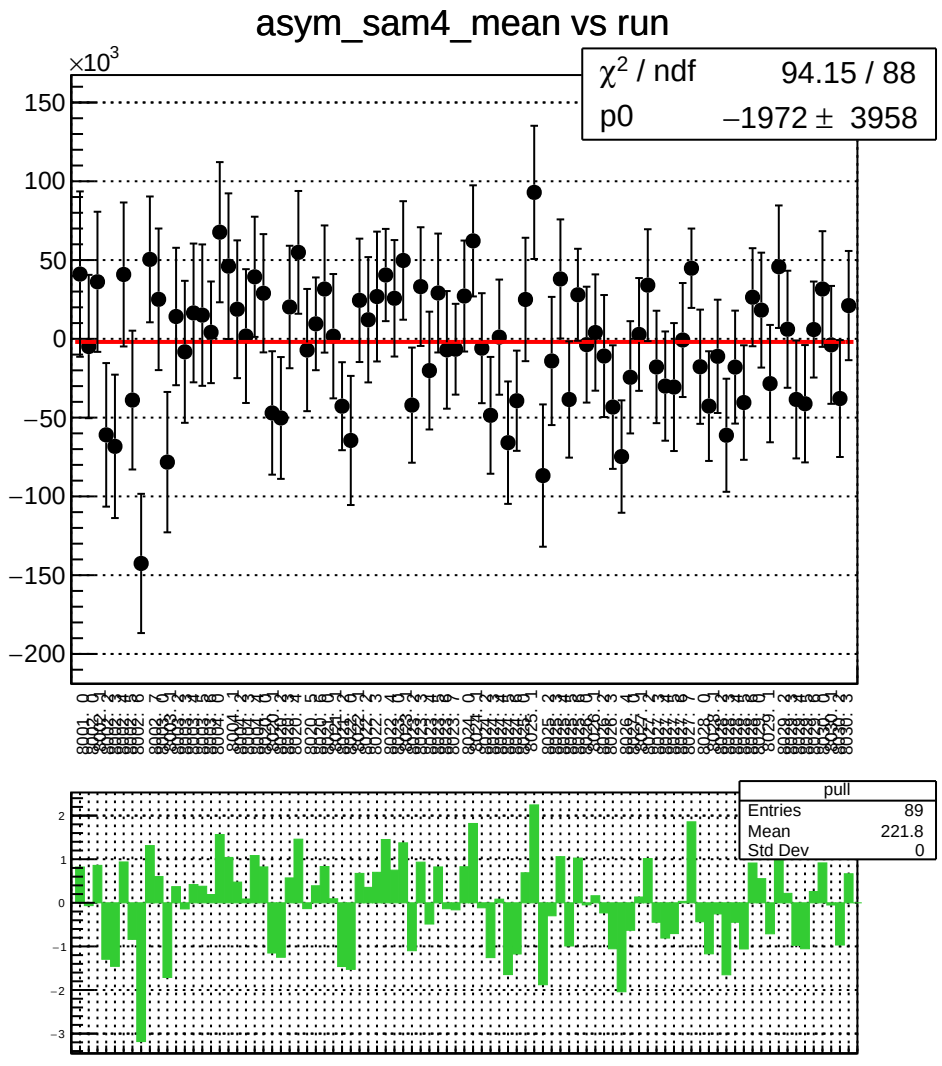

pull1D
Entries 89
Mean 0.01561
Std Dev 1.038
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

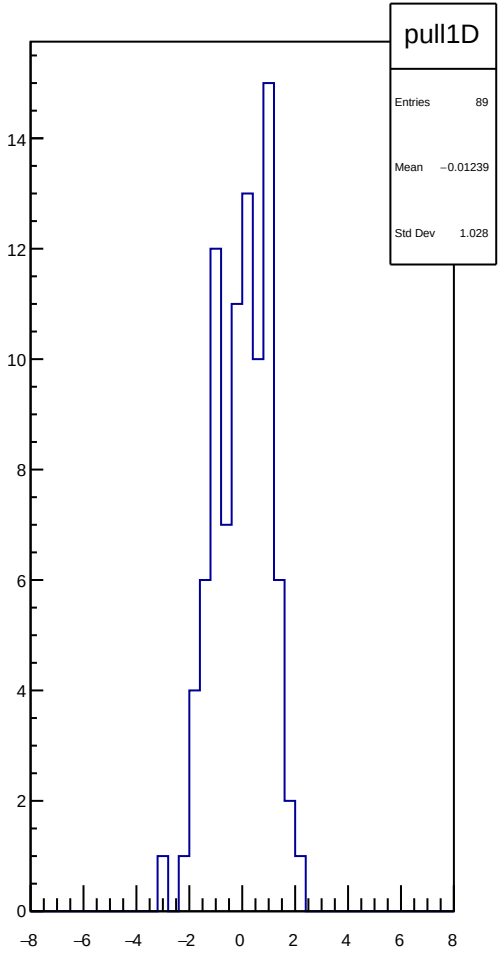

eigen_dit_asym_sam4_rms vs run
χ² / ndf 1.024e+05 / 88
p0 308.6 ± 0.2415
700
650
600
550
500
450
400
350
300
250

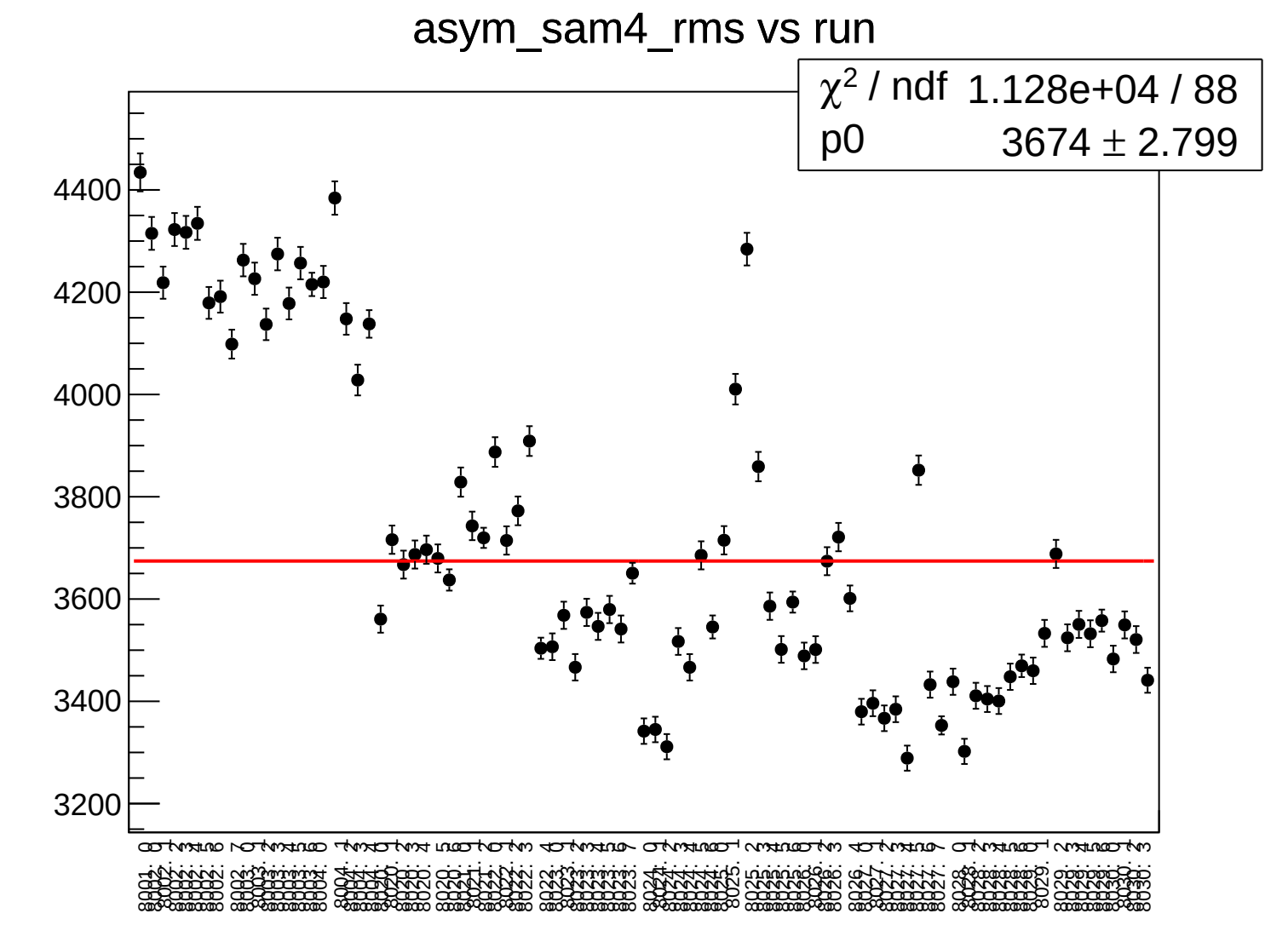

asym_sam4_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 92.6 / 88
p0 2071 ± 4045
pull
Entries 89
Mean 222.4
Std Dev 0

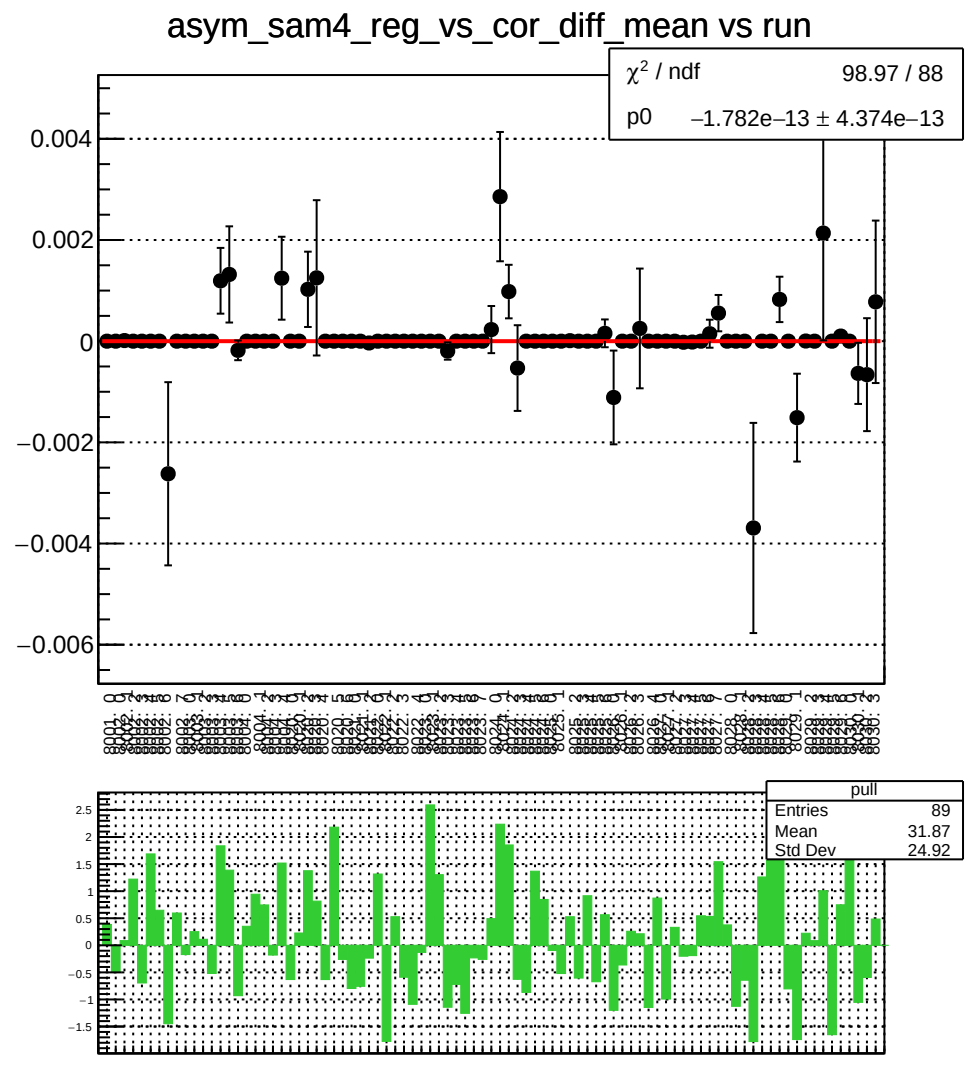

pull1D
Entries 89
Mean 0.0121
Std Dev 1.02

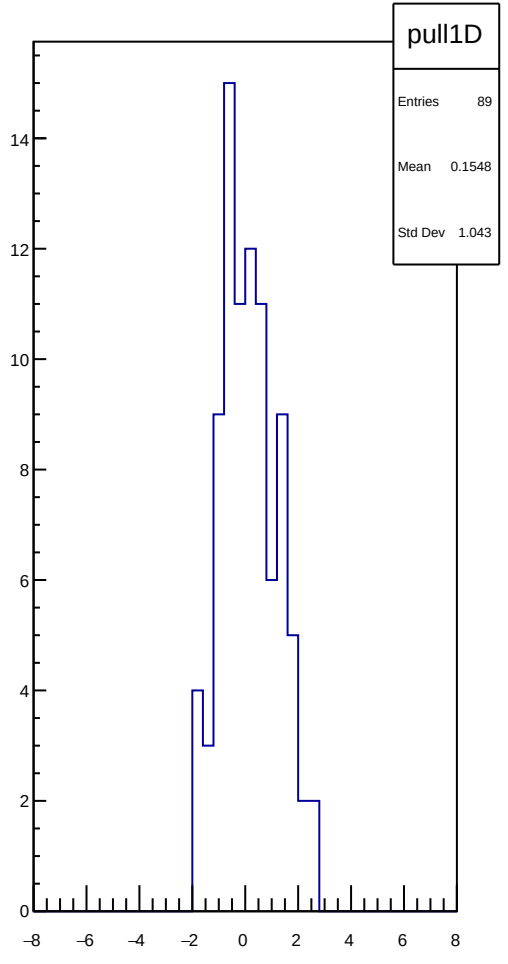

asym_sam4_eigen_dit_correction_rms vs run
χ² / ndf 2.184e+04 / 88
p0 3743 ± 2.86
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

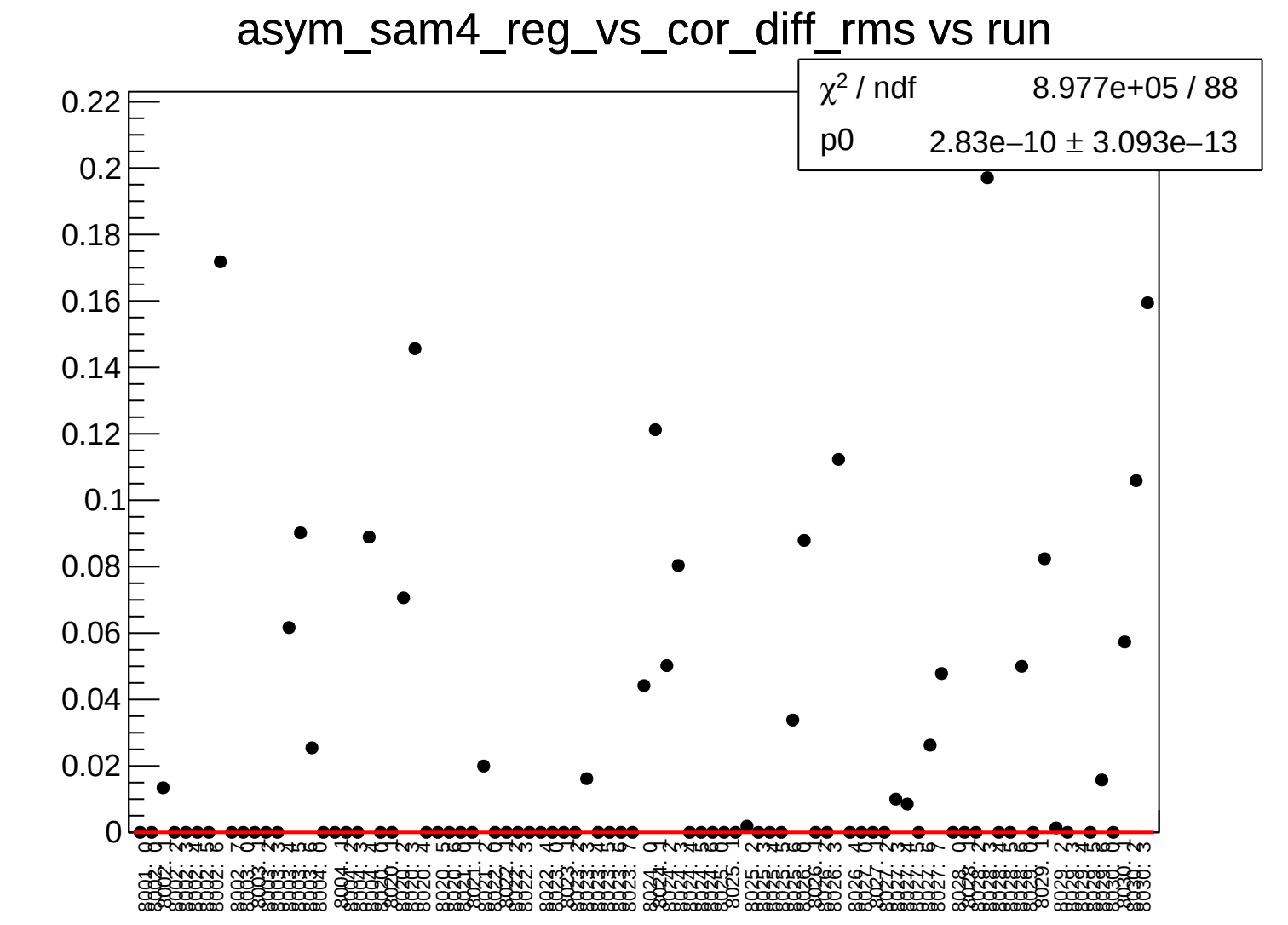

asym_sam4_mean vs run
×10^3
χ² / ndf 94.15 / 88
p0 −1972 ± 3958
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean 221.8
Std Dev 0
2
1
0
−1
−2
−3

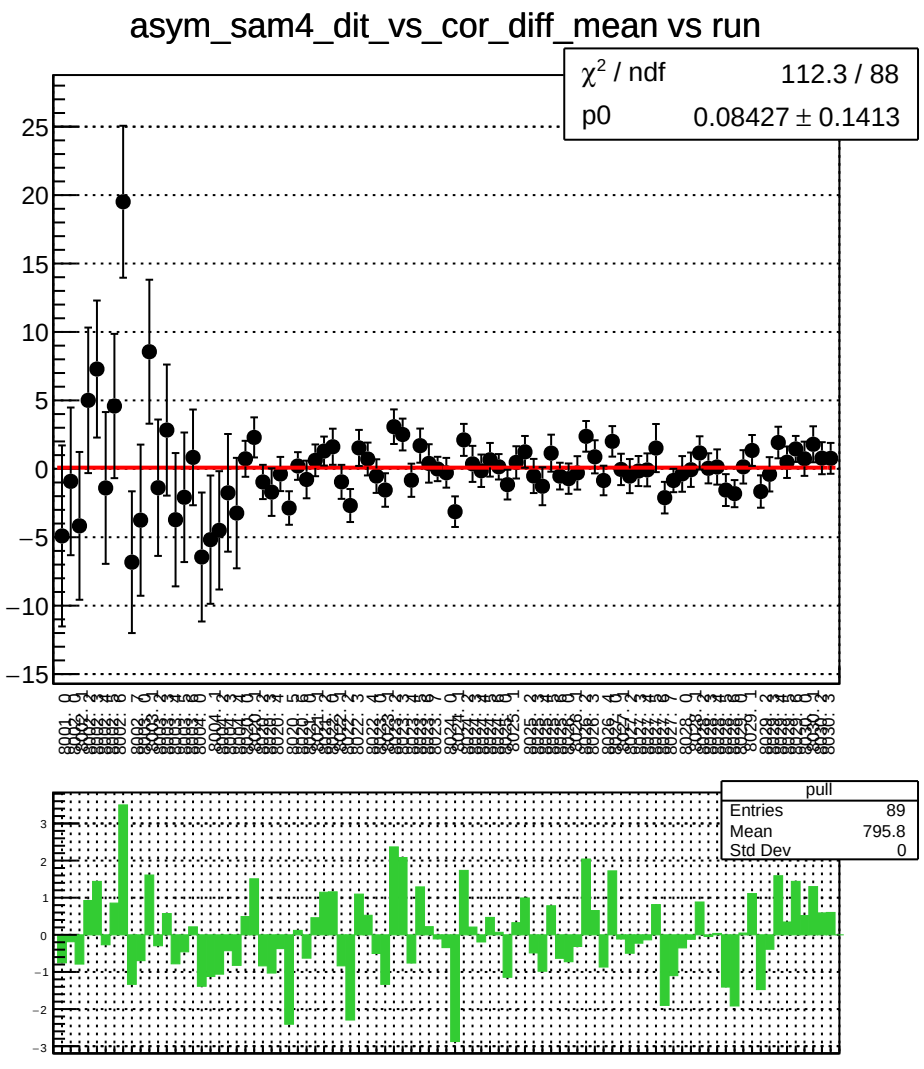

pull1D
Entries 89
Mean −0.01239
Std Dev 1.028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

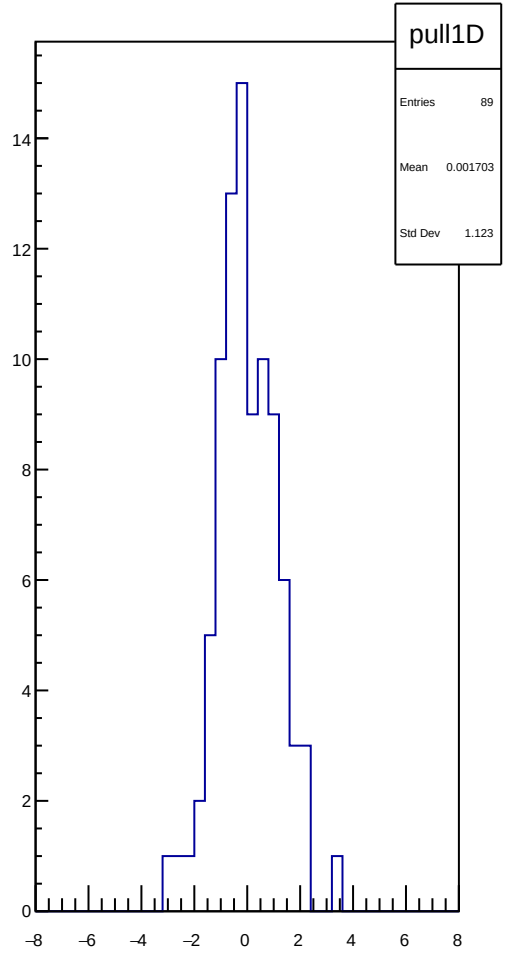

asym_sam4_rms vs run
χ^2 / ndf 1.128e+04 / 88
p0 3674 ± 2.799
4400
4200
4000
3800
3600
3400
3200

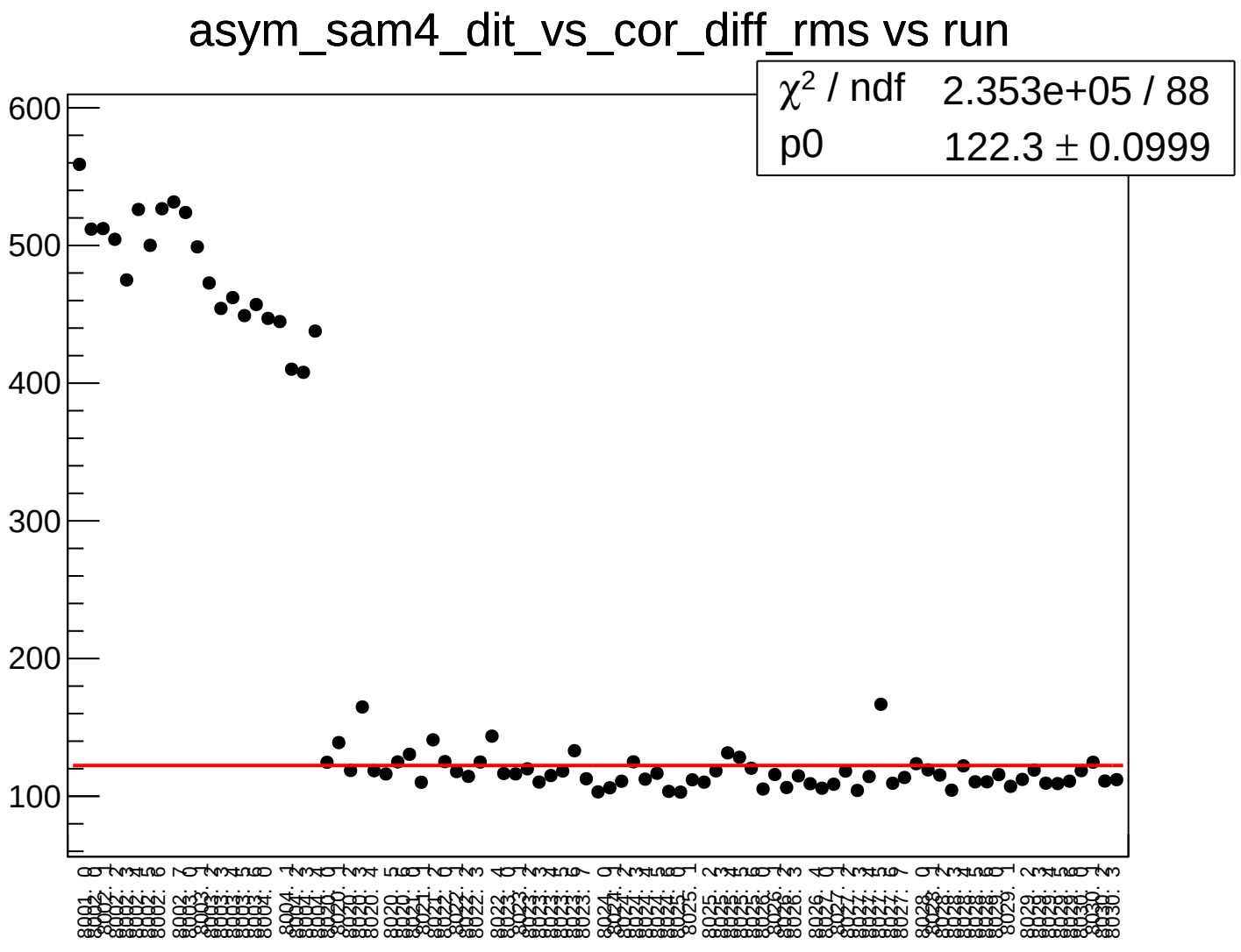

asym_sam4_reg_vs_cor_diff_mean vs run
χ² / ndf 98.97 / 88
p0 −1.782e−13 ± 4.374e−13
0.004
0.002
0
−0.002
−0.004
−0.006
pull
Entries 89
Mean 31.87
Std Dev 24.92
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

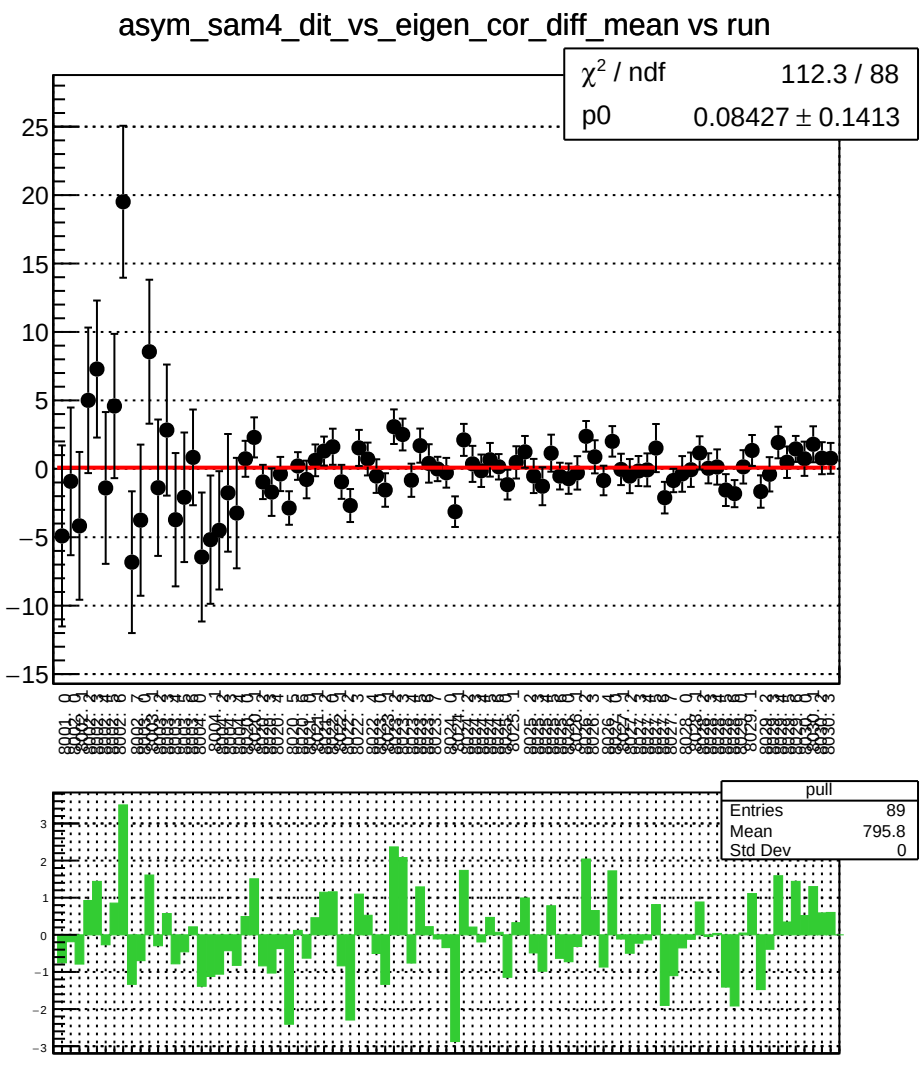

pull1D
Entries 89
Mean 0.1548
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

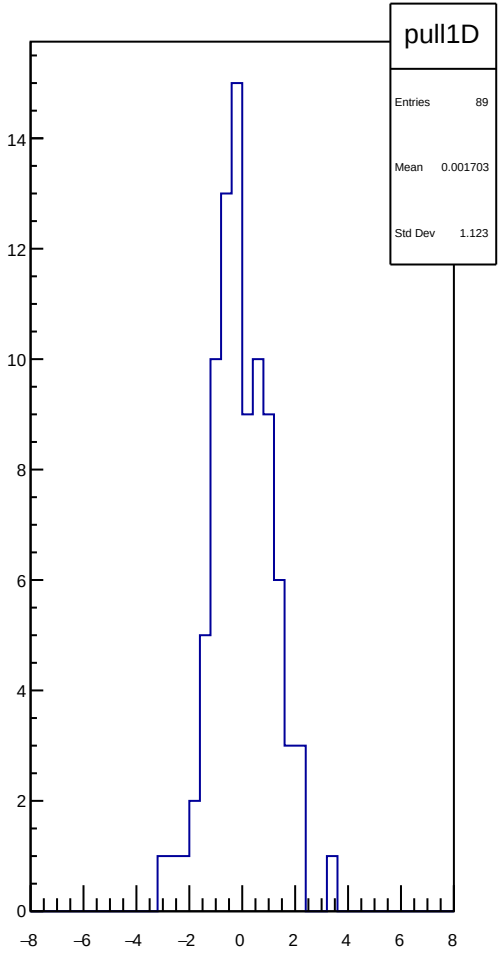

asym_sam4_reg_vs_cor_diff_rms vs run
χ² / ndf 8.977e+05 / 88
p0 2.83e−10 ± 3.093e−13
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

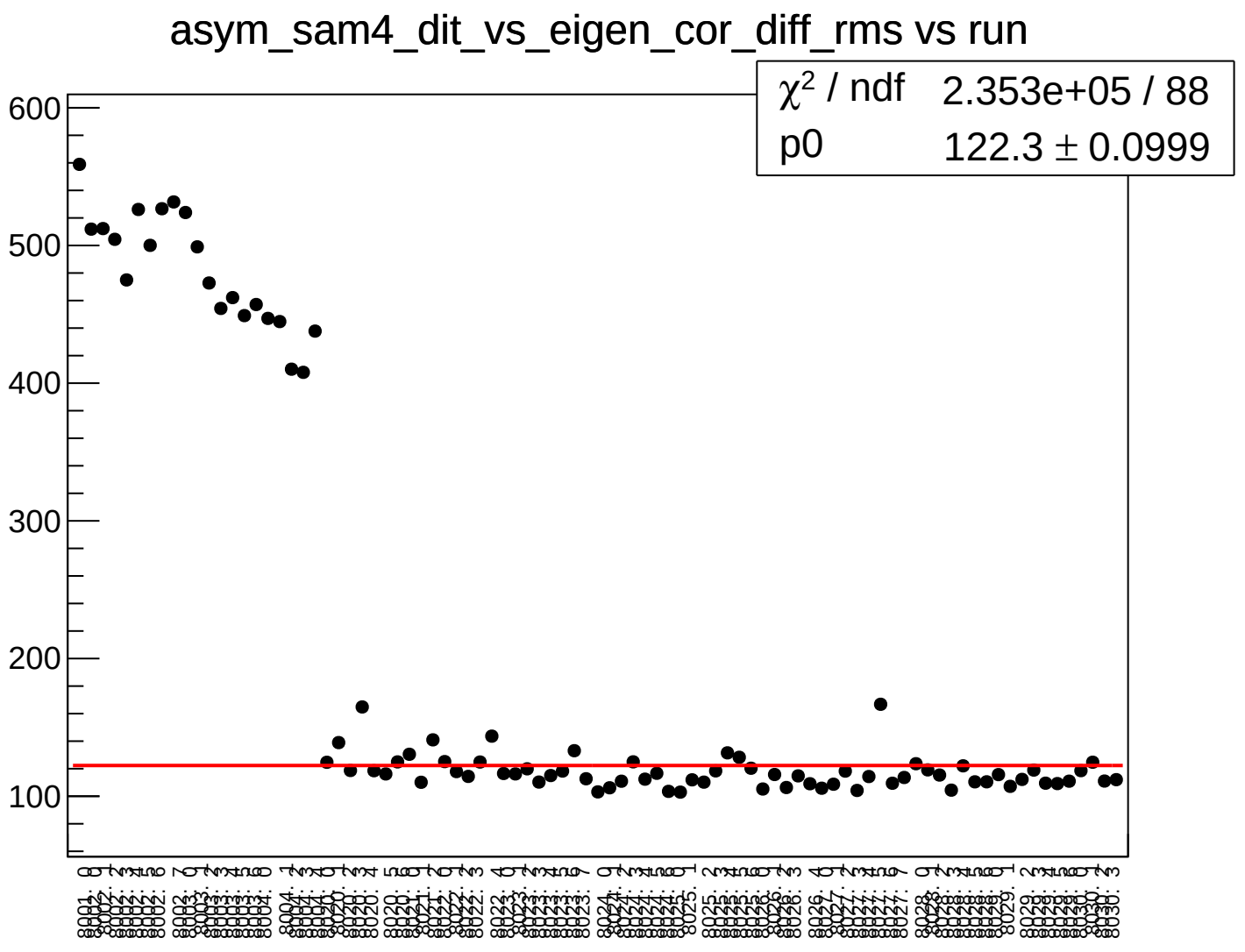

asym_sam4_dit_vs_cor_diff_mean vs run
χ² / ndf 112.3 / 88
p0 0.08427 ± 0.1413
pull
Entries 89
Mean 795.8
Std Dev 0

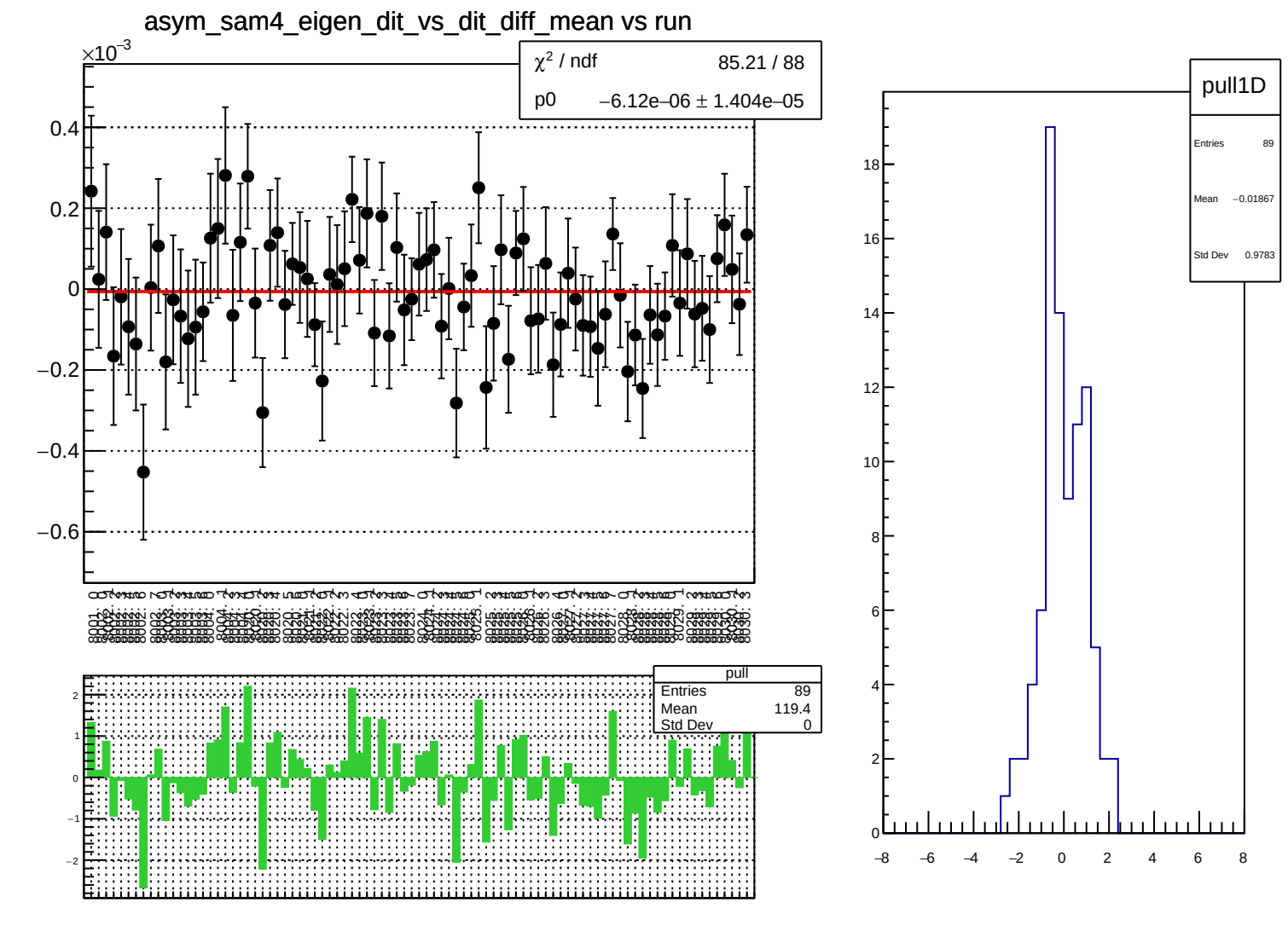

pull1D
Entries 89
Mean 0.001703
Std Dev 1.123

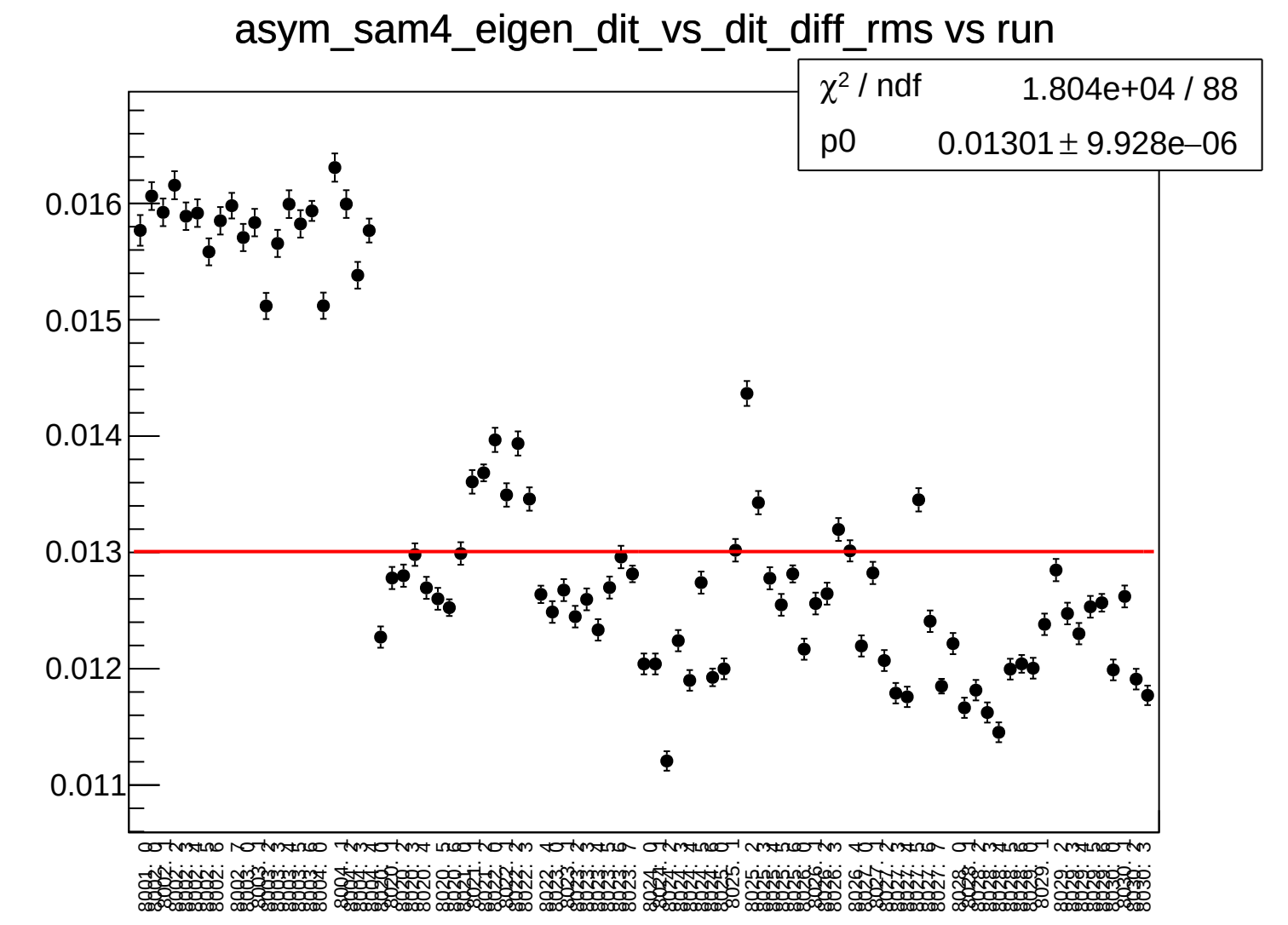

asym_sam4_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.353e+05 / 88
p0 122.3 ± 0.0999
600
500
400
300
200
100

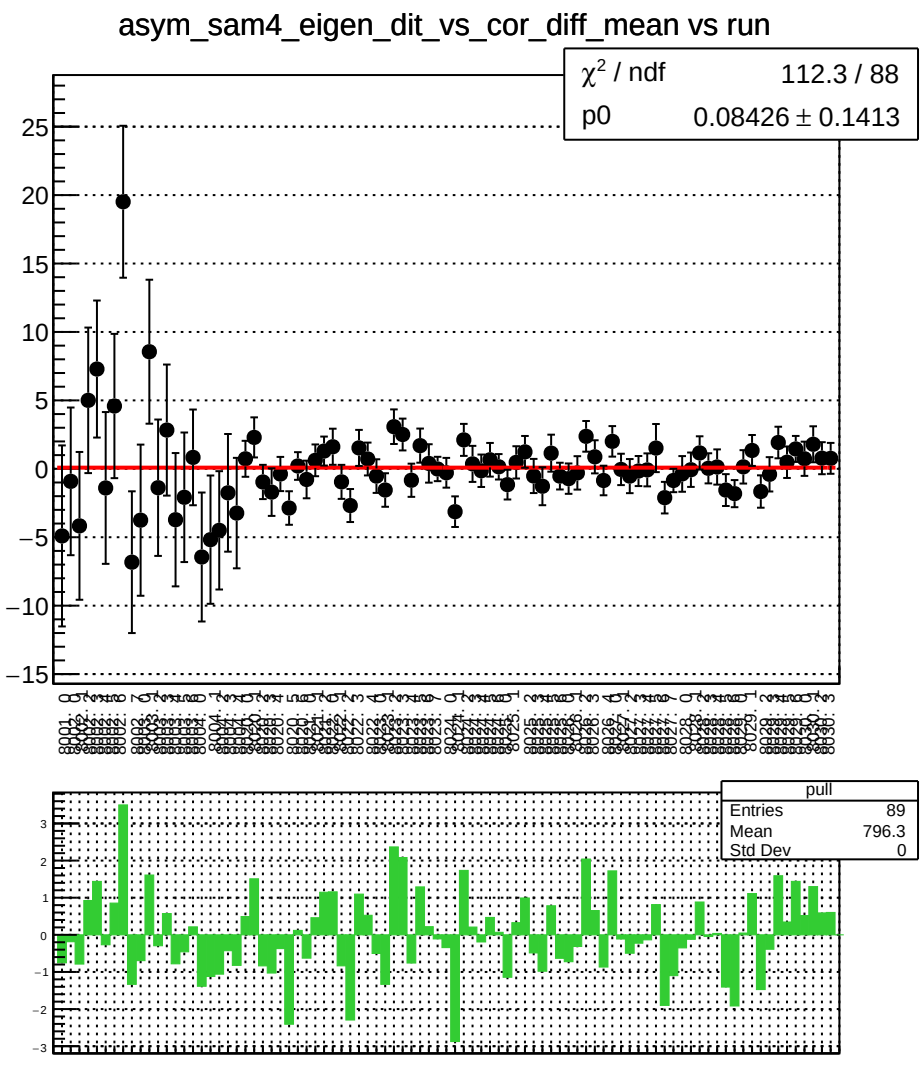

asym_sam4_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 112.3 / 88
p0 0.08427 ± 0.1413
pull
Entries 89
Mean 795.8
Std Dev 0

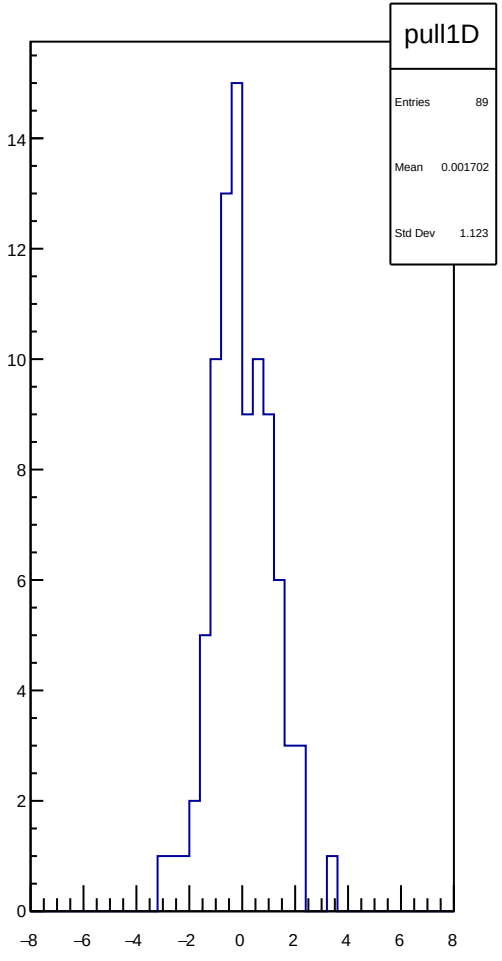

pull1D
Entries 89
Mean 0.001703
Std Dev 1.123

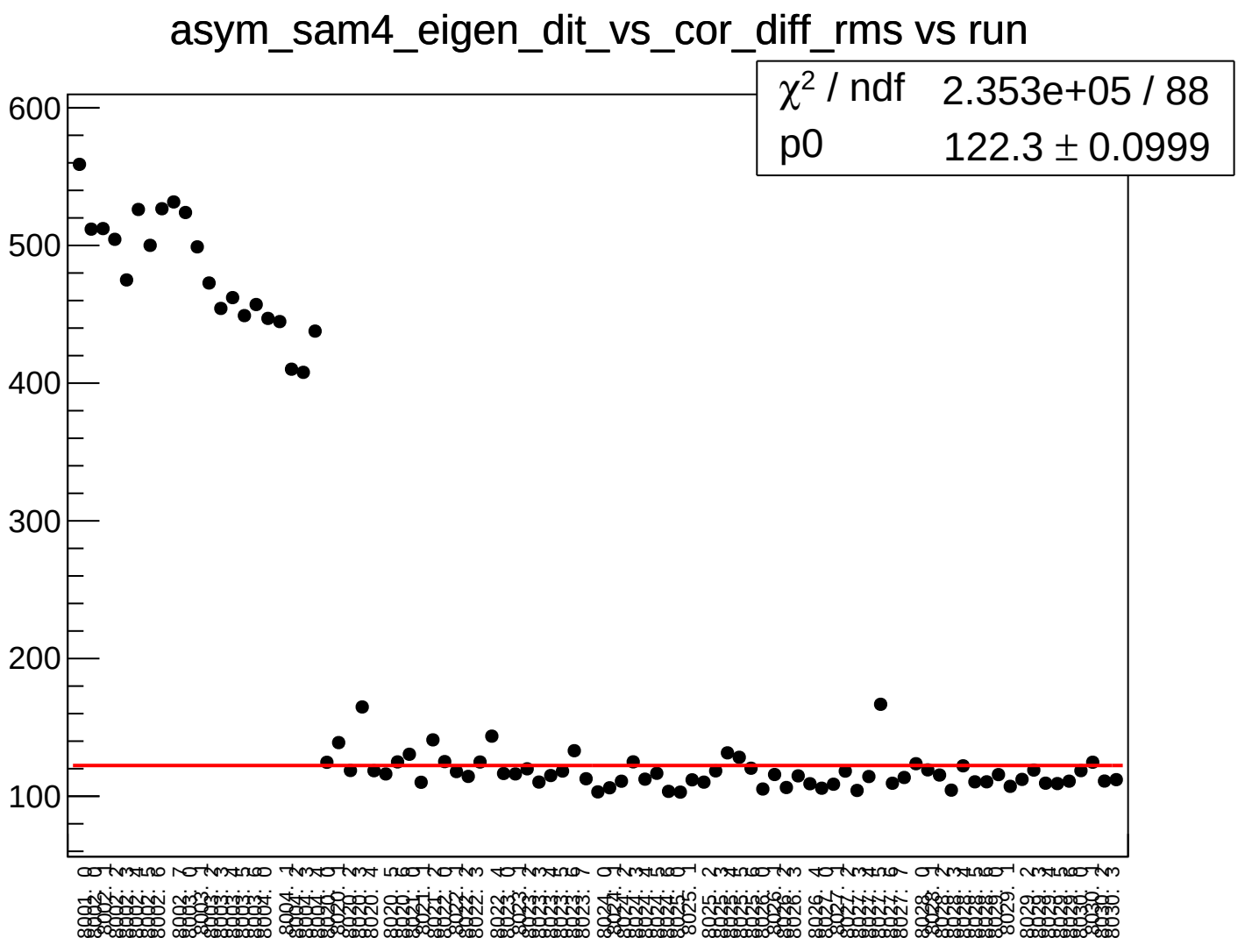

asym_sam4_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.353e+05 / 88
p0 122.3 ± 0.0999
600
500
400
300
200
100

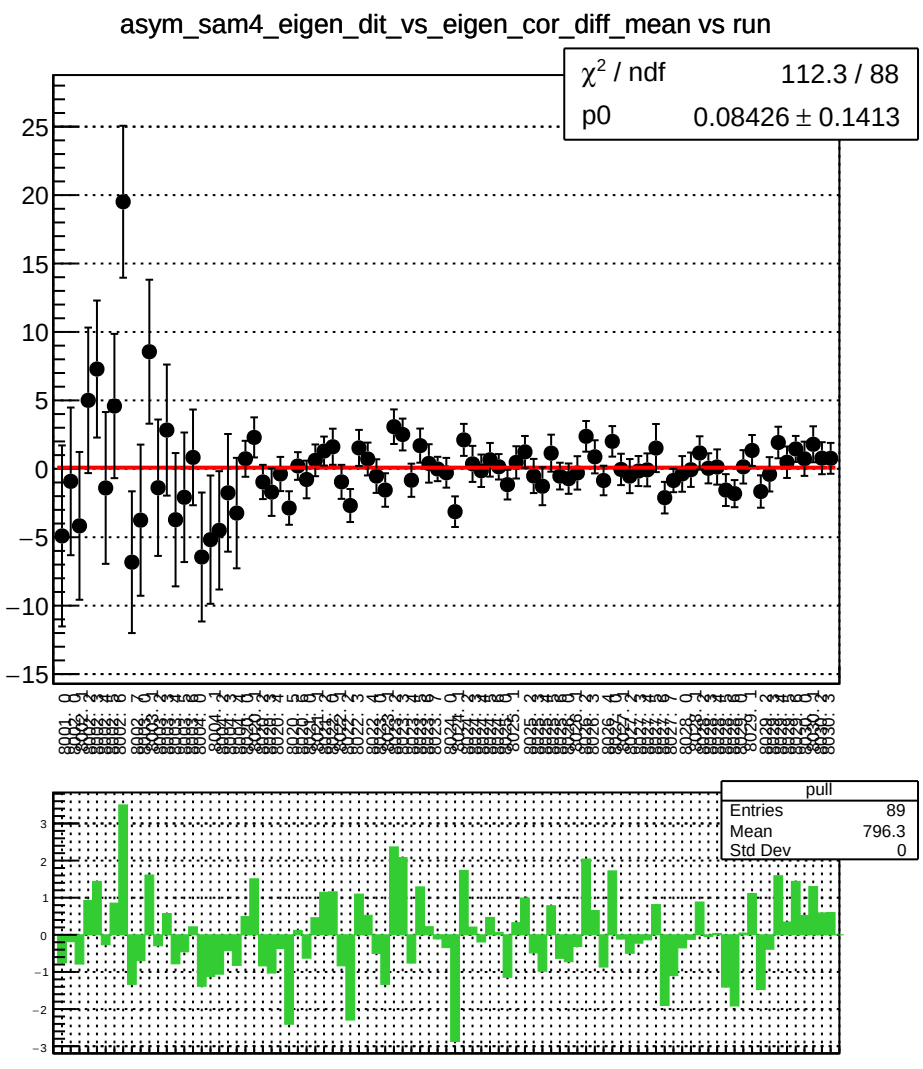

asym_sam4_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.21 / 88
p0 −6.12e−06 ± 1.404e−05
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 89
Mean 119.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.01867
Std Dev 0.9783
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

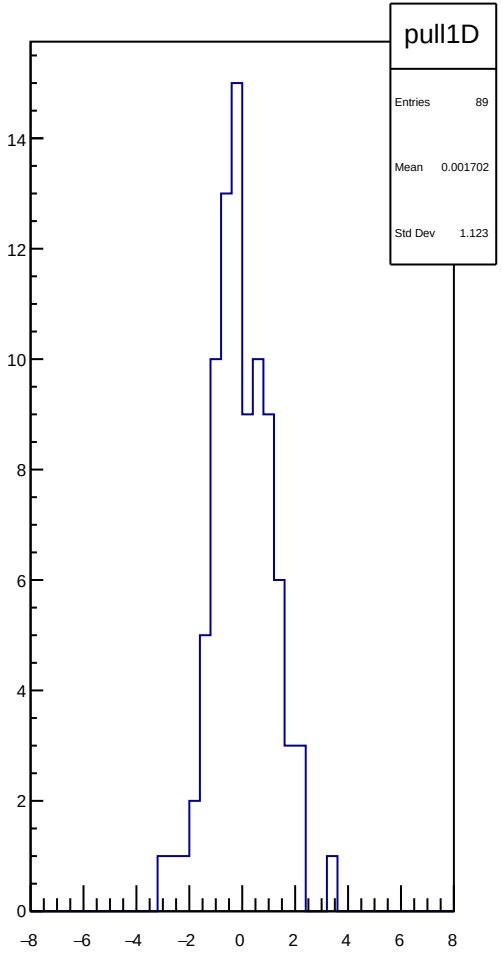

asym_sam4_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.804e+04 / 88
p0 0.01301 ± 9.928e–06
0.016
0.015
0.014
0.013
0.012
0.011

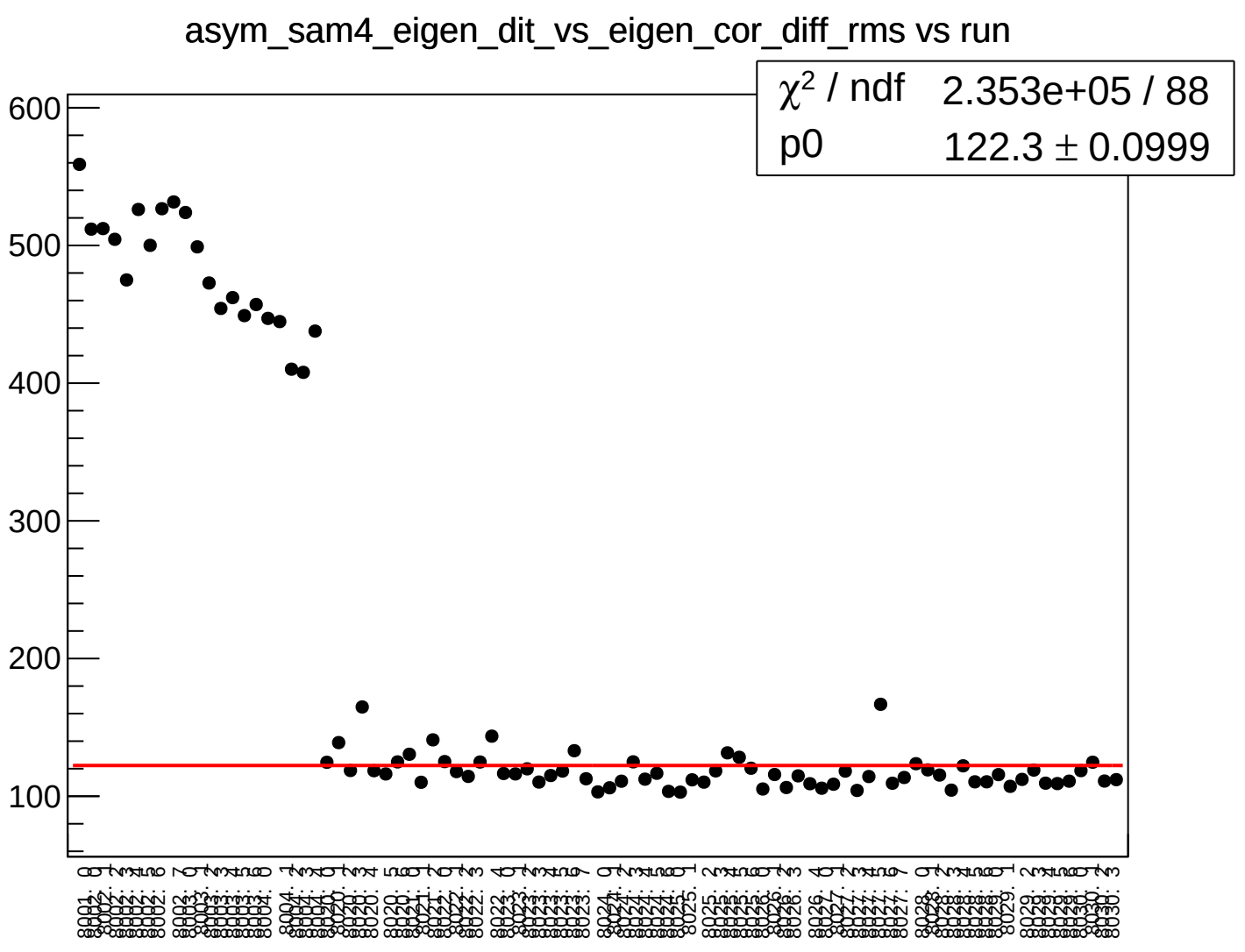

asym_sam4_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 112.3 / 88
p0 0.08426 ± 0.1413
pull
Entries 89
Mean 796.3
Std Dev 0

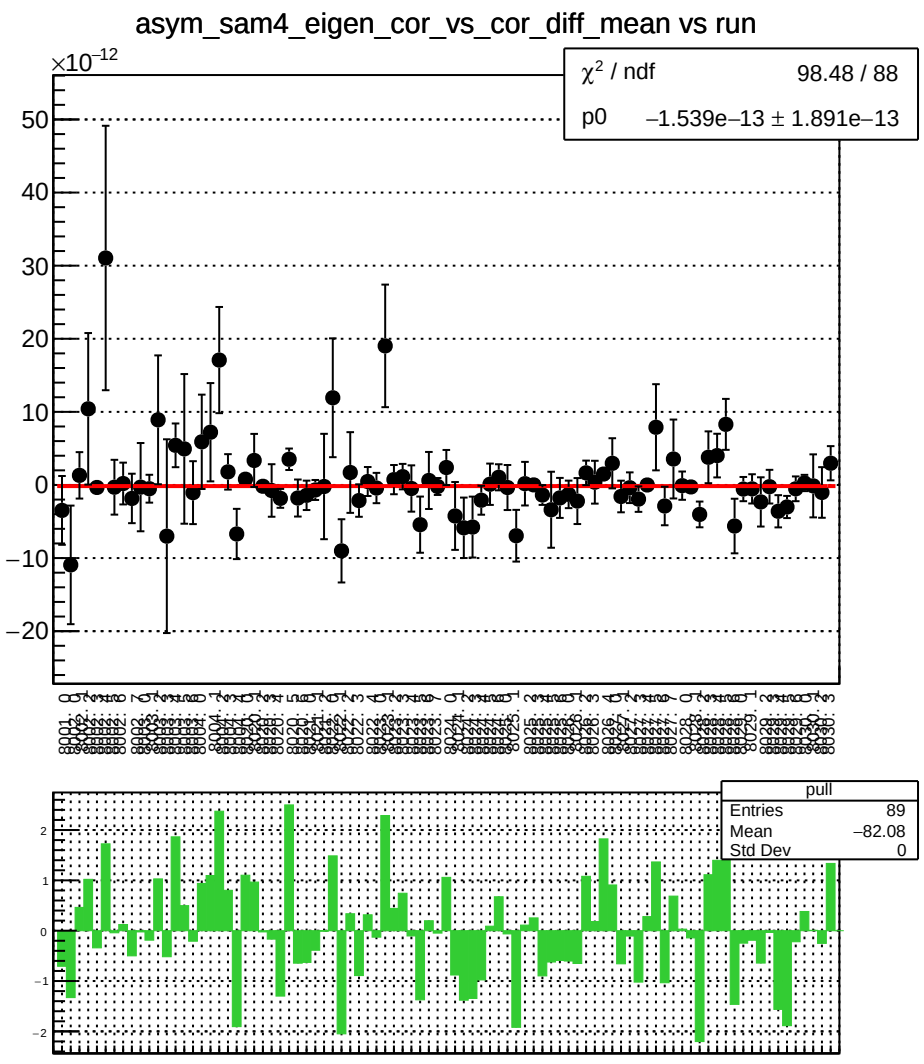

pull1D
Entries 89
Mean 0.001702
Std Dev 1.123

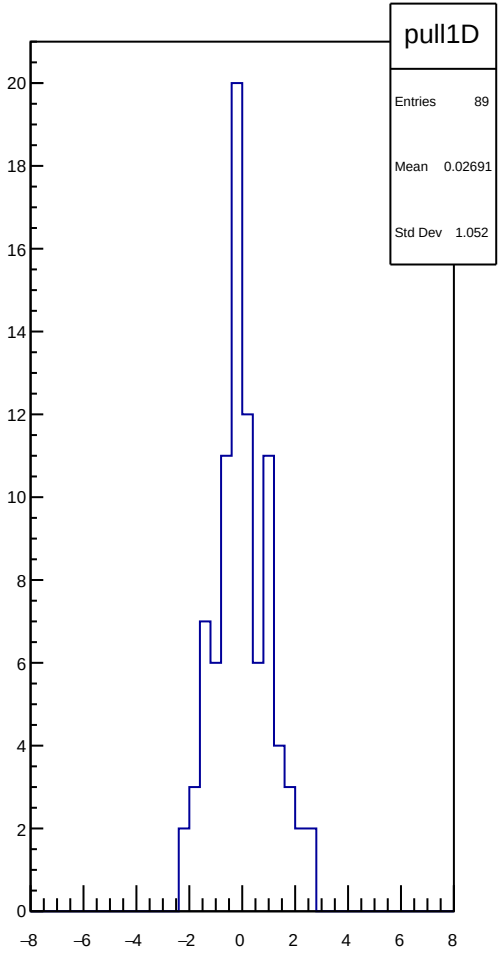

asym_sam4_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.353e+05 / 88
p0 122.3 ± 0.0999
600
500
400
300
200
100

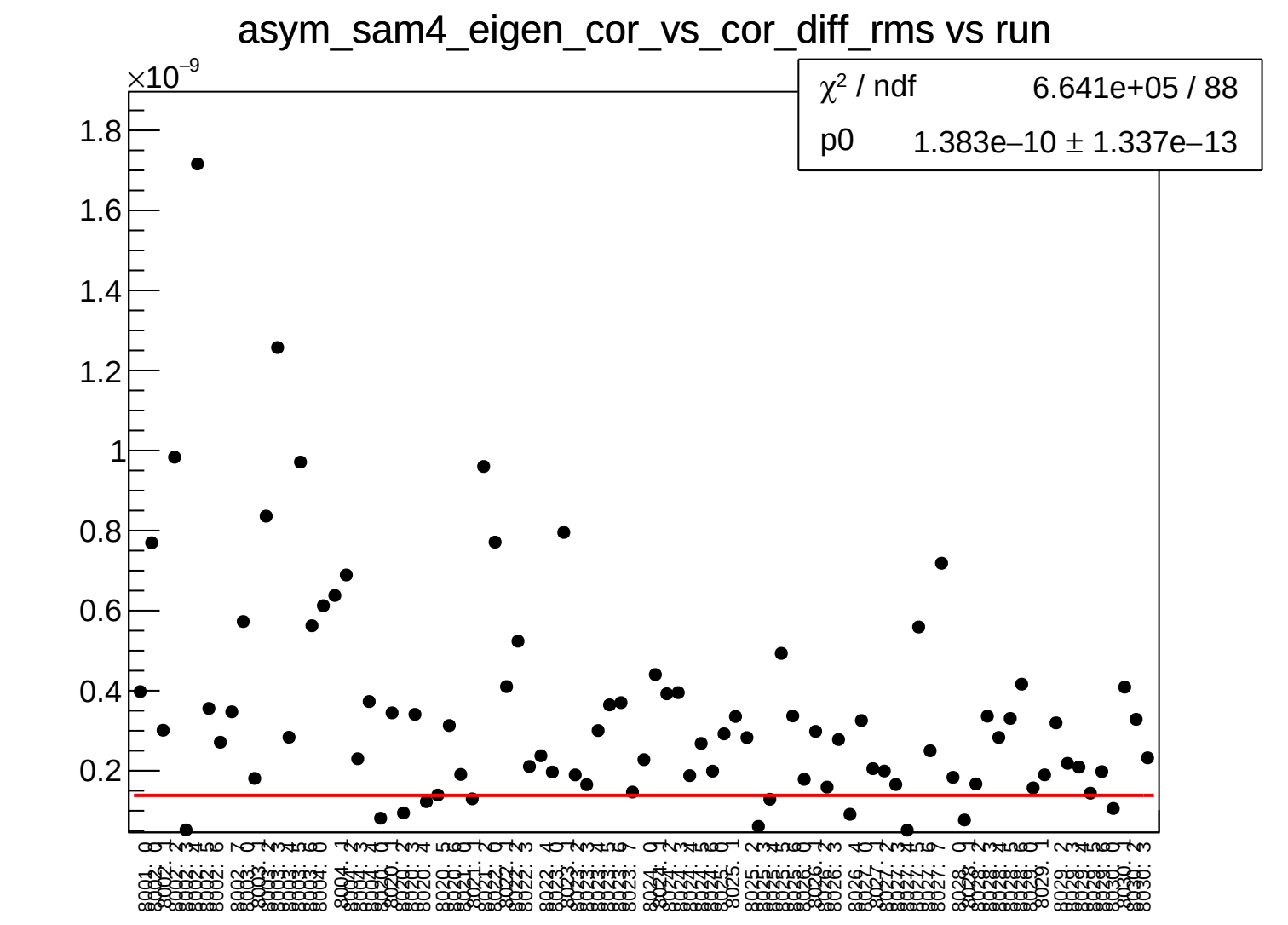

asym_sam4_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 112.3 / 88
p0 0.08426 ± 0.1413
pull
Entries 89
Mean 796.3
Std Dev 0

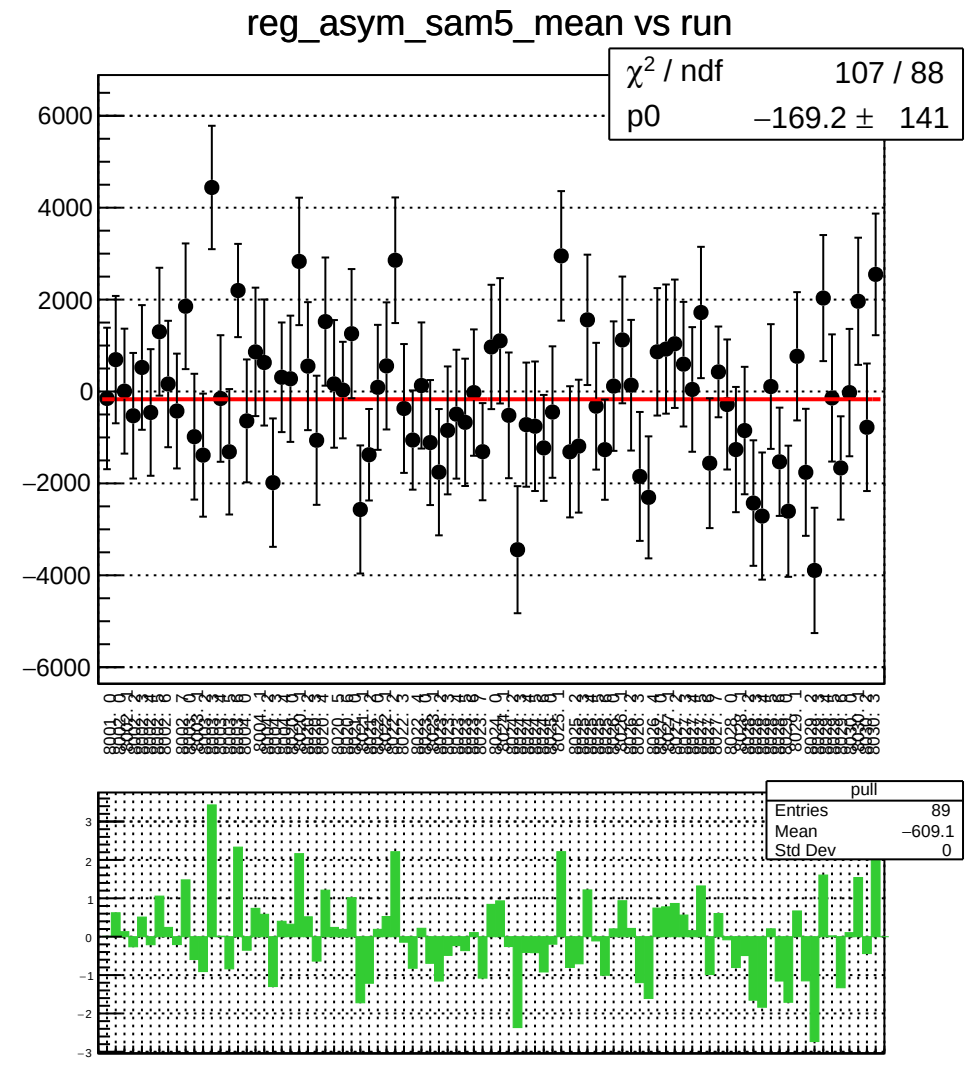

pull1D
Entries 89
Mean 0.001702
Std Dev 1.123

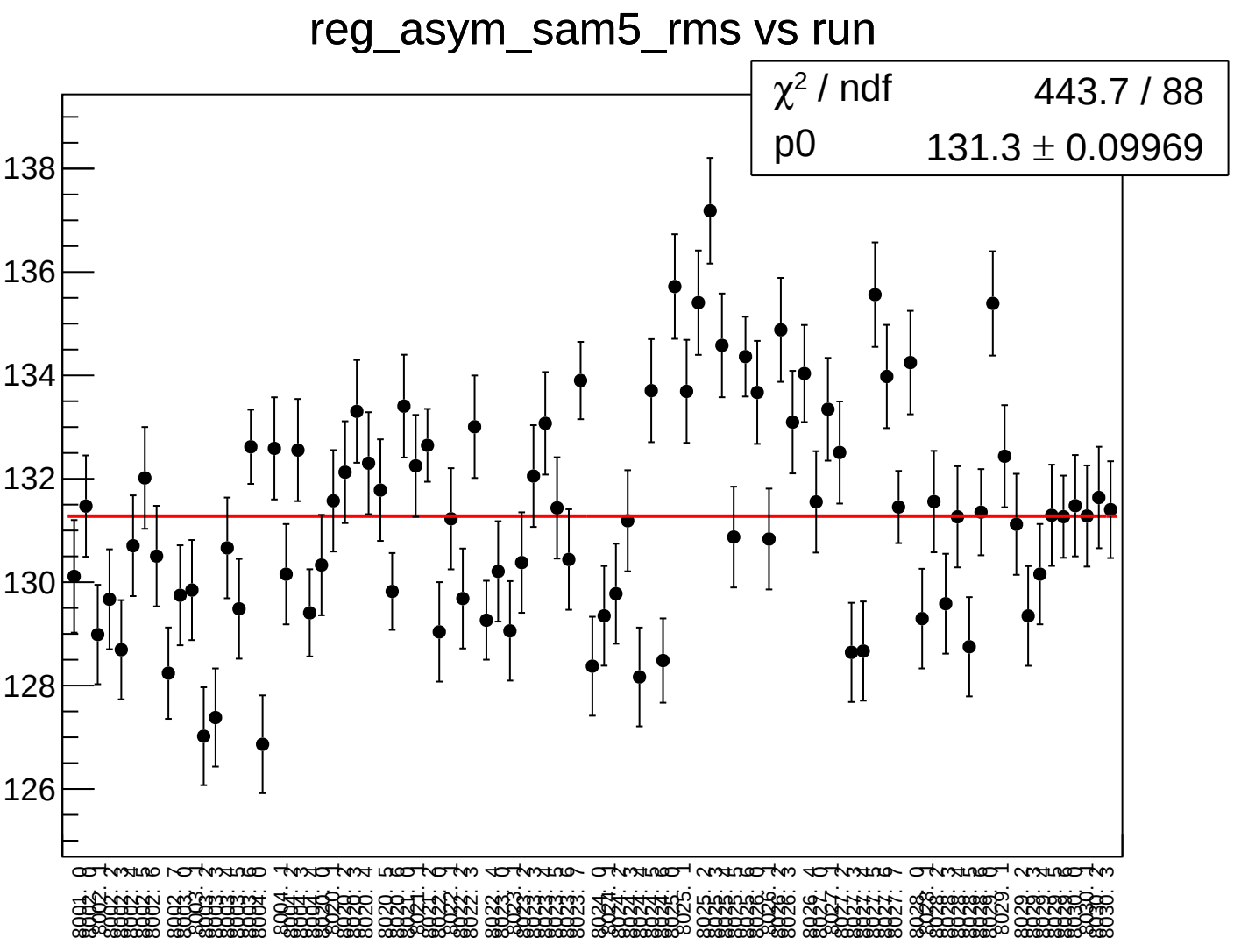

asym_sam4_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.353e+05 / 88
p0 122.3 ± 0.0999
600
500
400
300
200
100

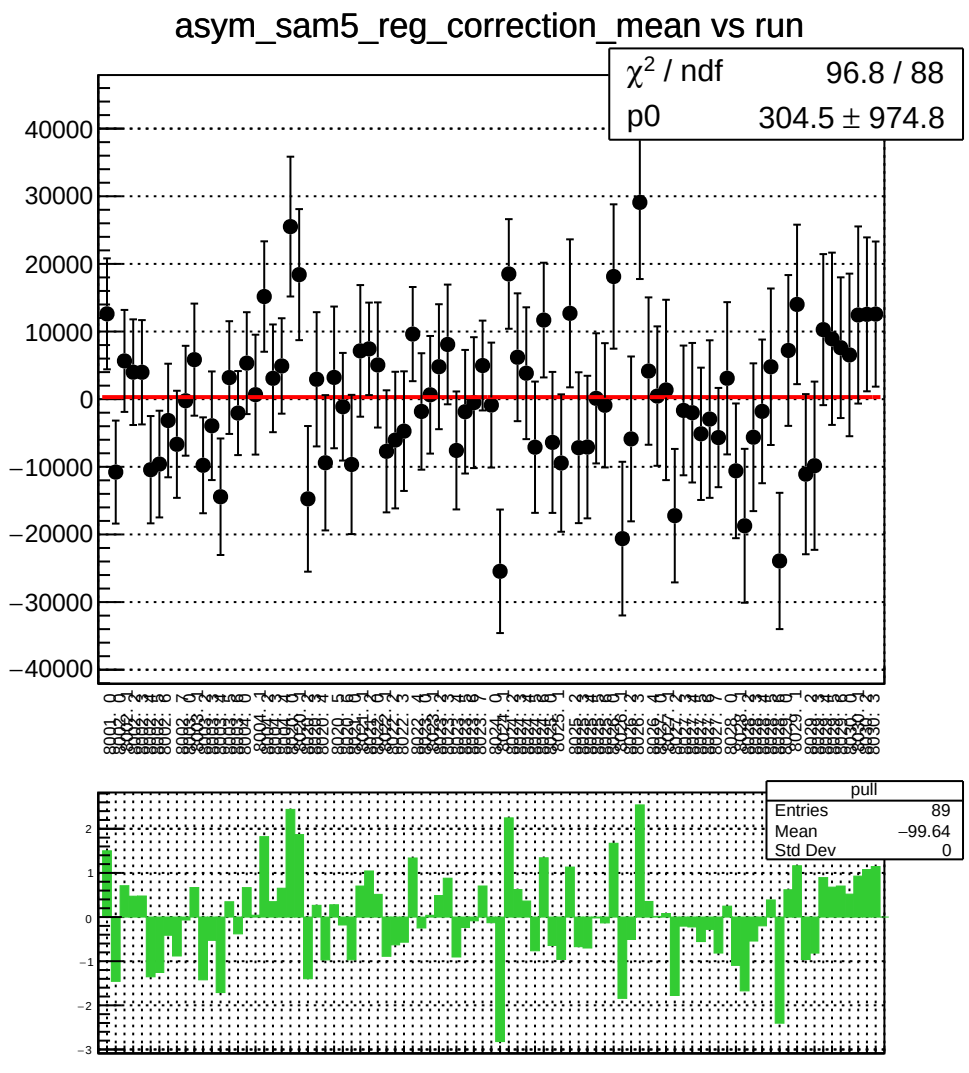

asym_sam4_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.48 / 88
p0 −1.539e−13 ± 1.891e−13
pull
Entries 89
Mean −82.08
Std Dev 0

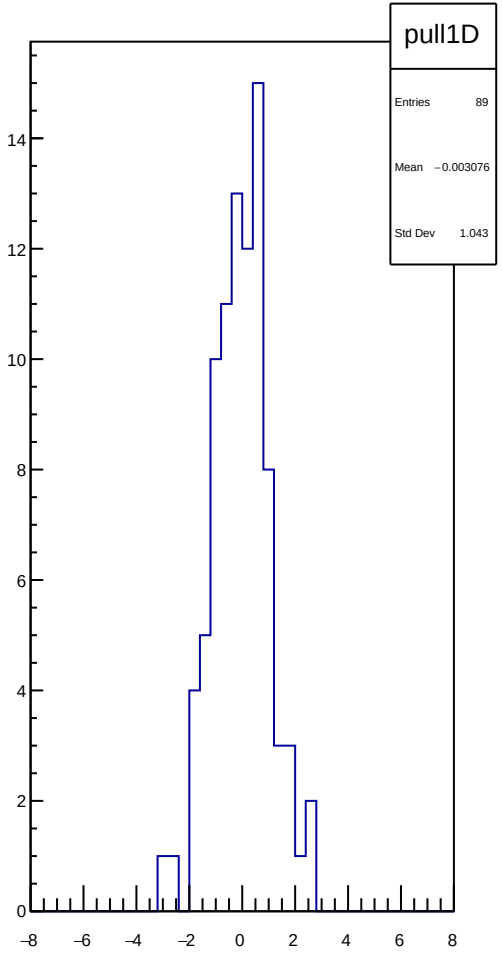

pull1D
Entries 89
Mean 0.02691
Std Dev 1.052

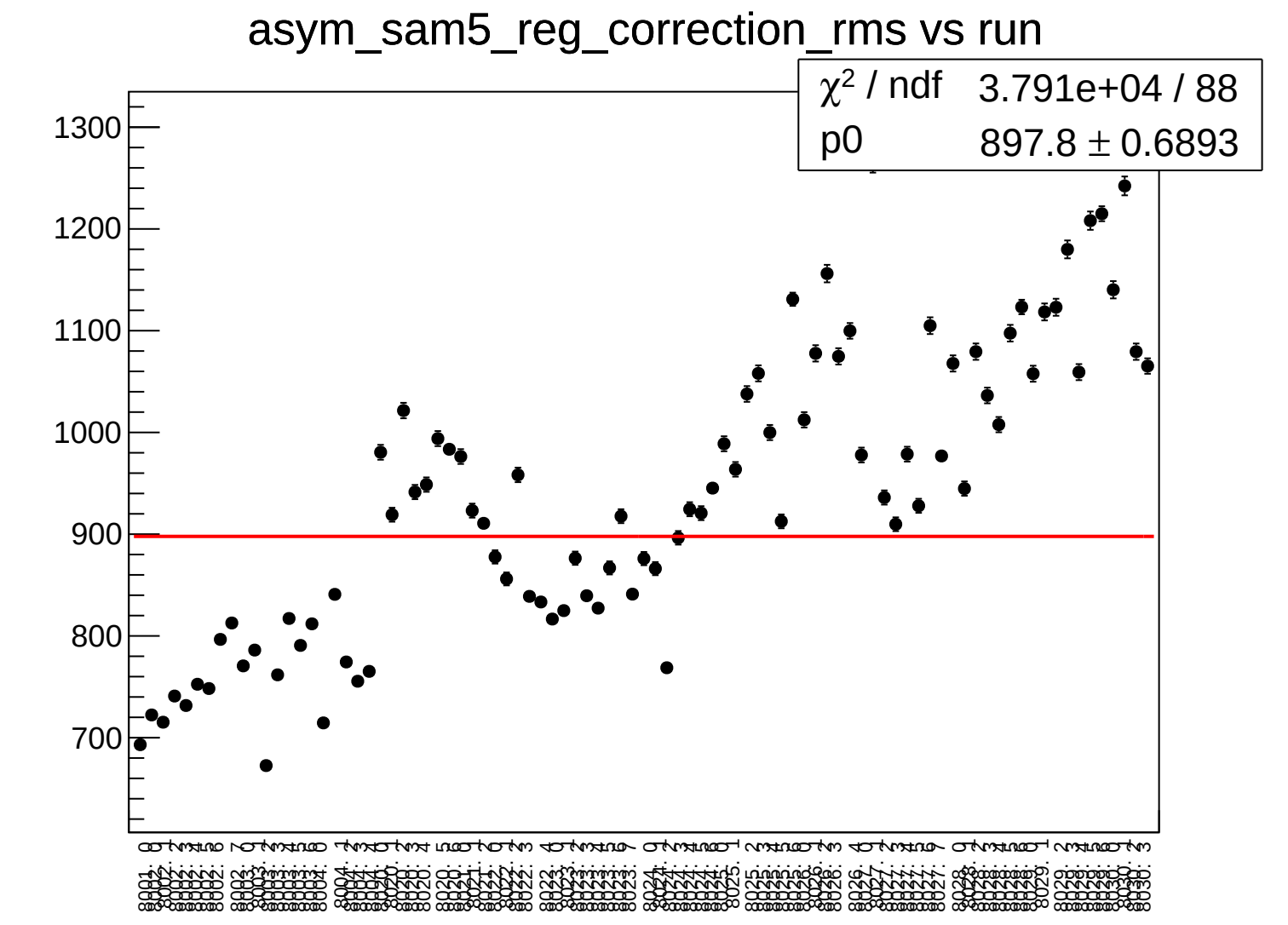

asym_sam4_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.641e+05 / 88
p0 1.383e−10 ± 1.337e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

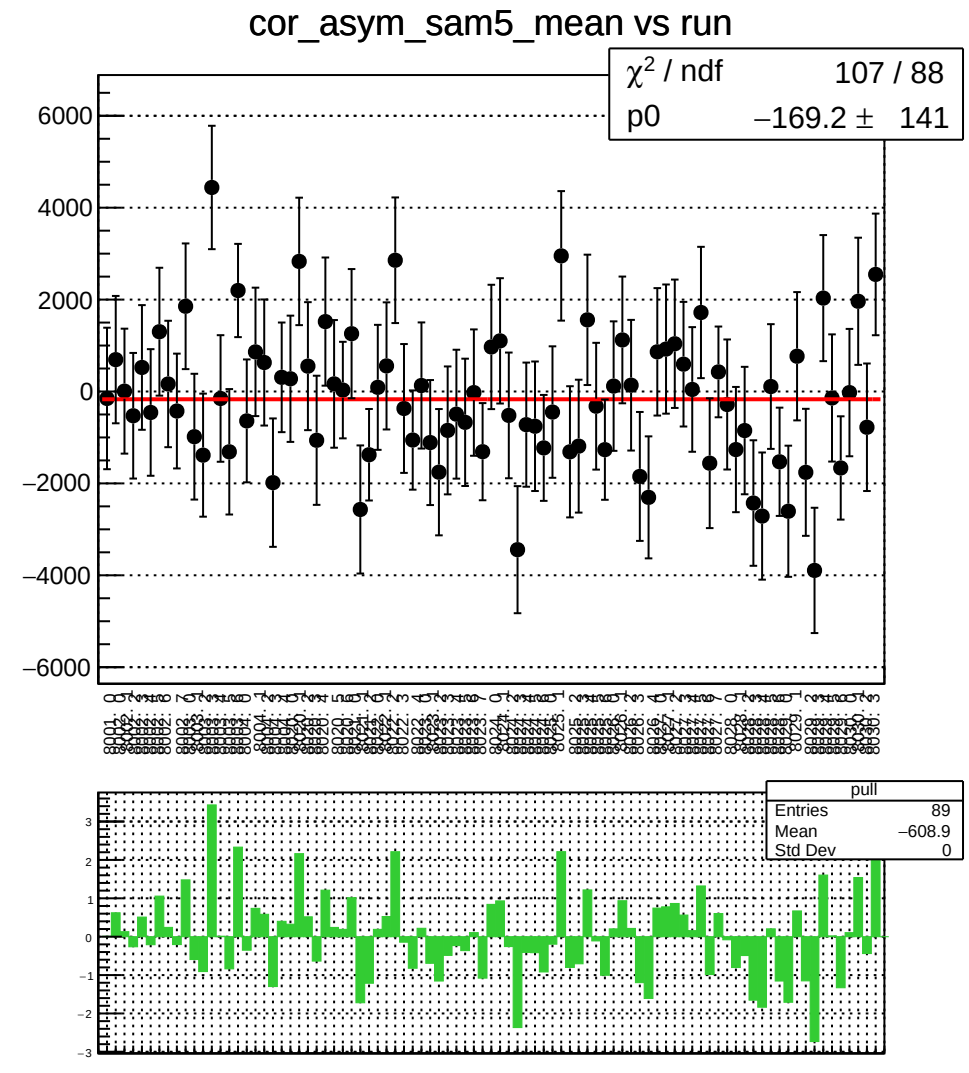

reg_asym_sam5_mean vs run
χ² / ndf 107 / 88
p0 −169.2 ± 141
pull
Entries 89
Mean −609.1
Std Dev 0
pull1D
Entries 89
Mean 0.007926
Std Dev 1.096

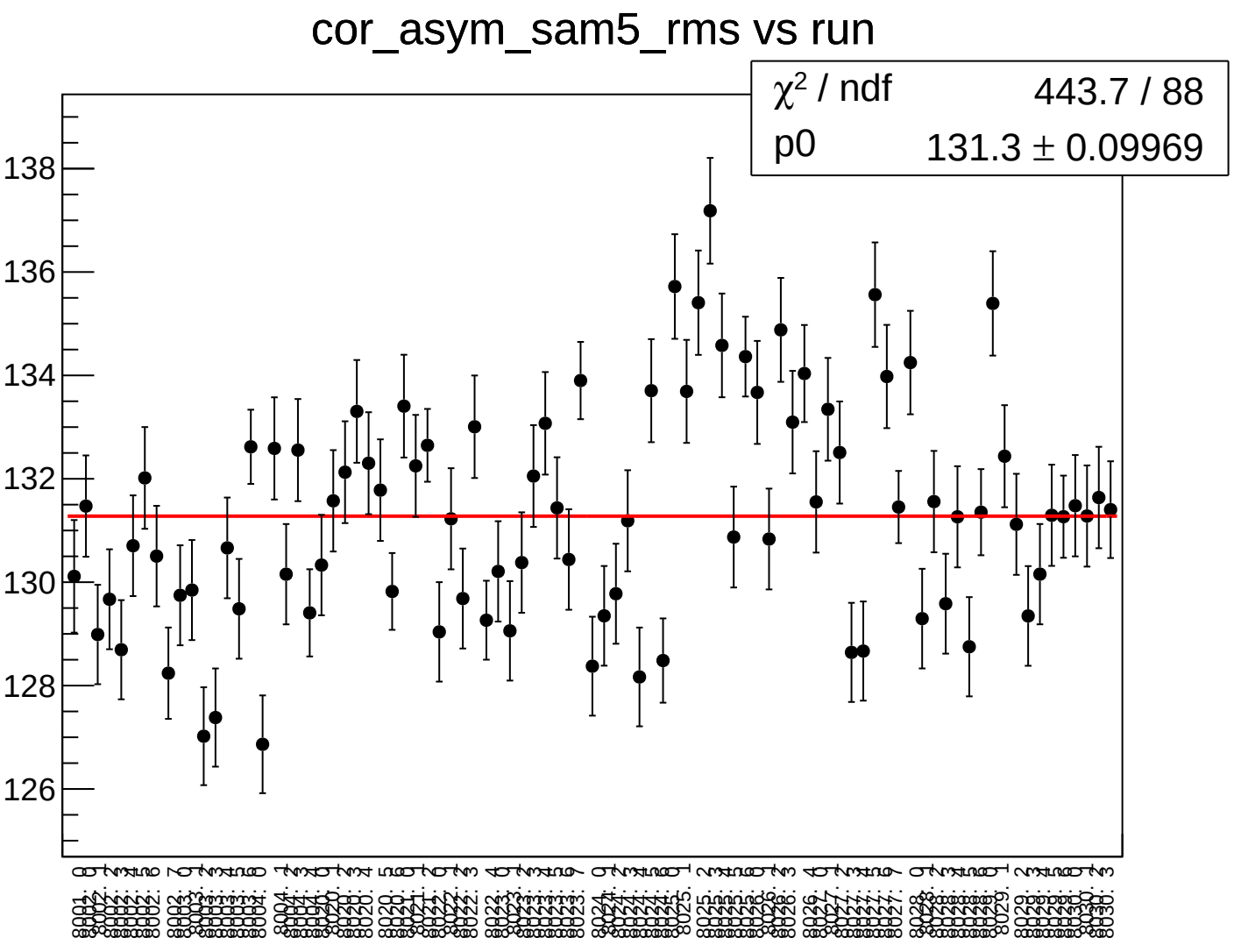

reg_asym_sam5_rms vs run
χ^2 / ndf 443.7 / 88
p0 131.3 ± 0.09969
138
136
134
132
130
128
126

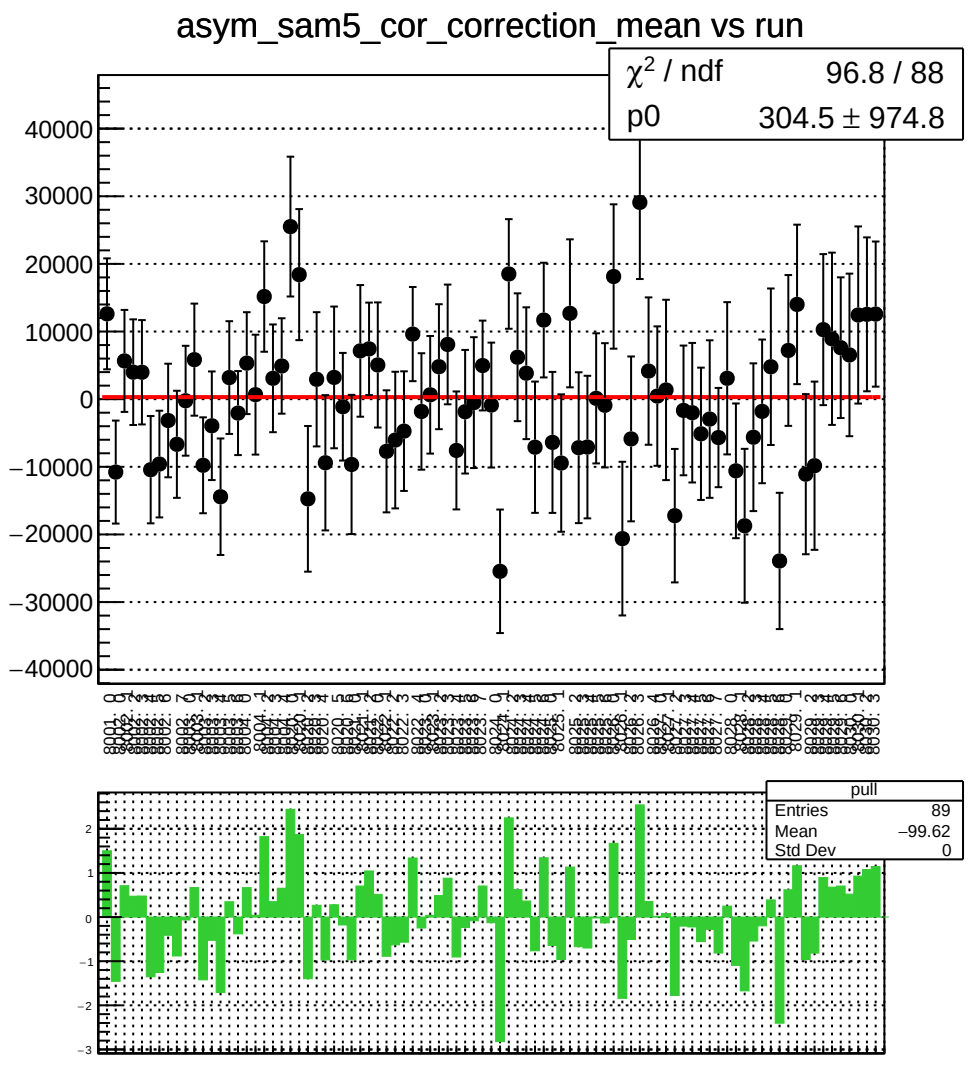

asym_sam5_reg_correction_mean vs run
χ² / ndf 96.8 / 88
p0 304.5 ± 974.8
pull
Entries 89
Mean −99.64
Std Dev 0

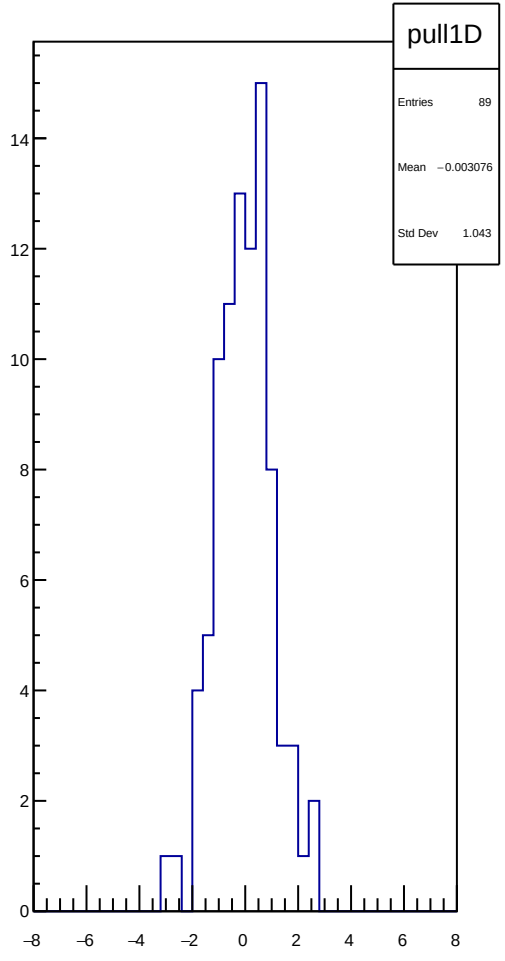

pull1D
Entries 89
Mean −0.003076
Std Dev 1.043

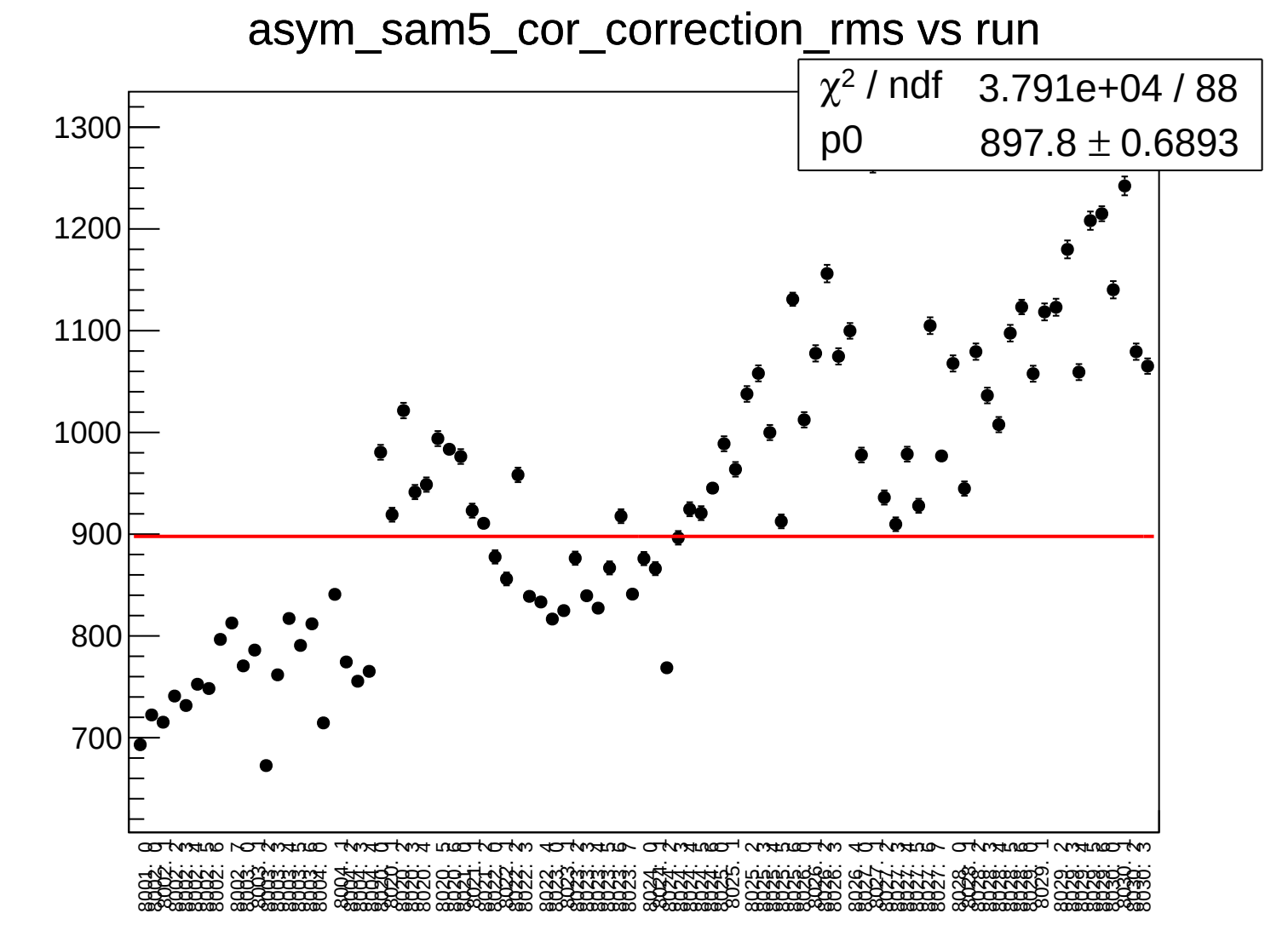

asym_sam5_reg_correction_rms vs run
χ² / ndf 3.791e+04 / 88
p0 897.8 ± 0.6893
1300
1200
1100
1000
900
800
700

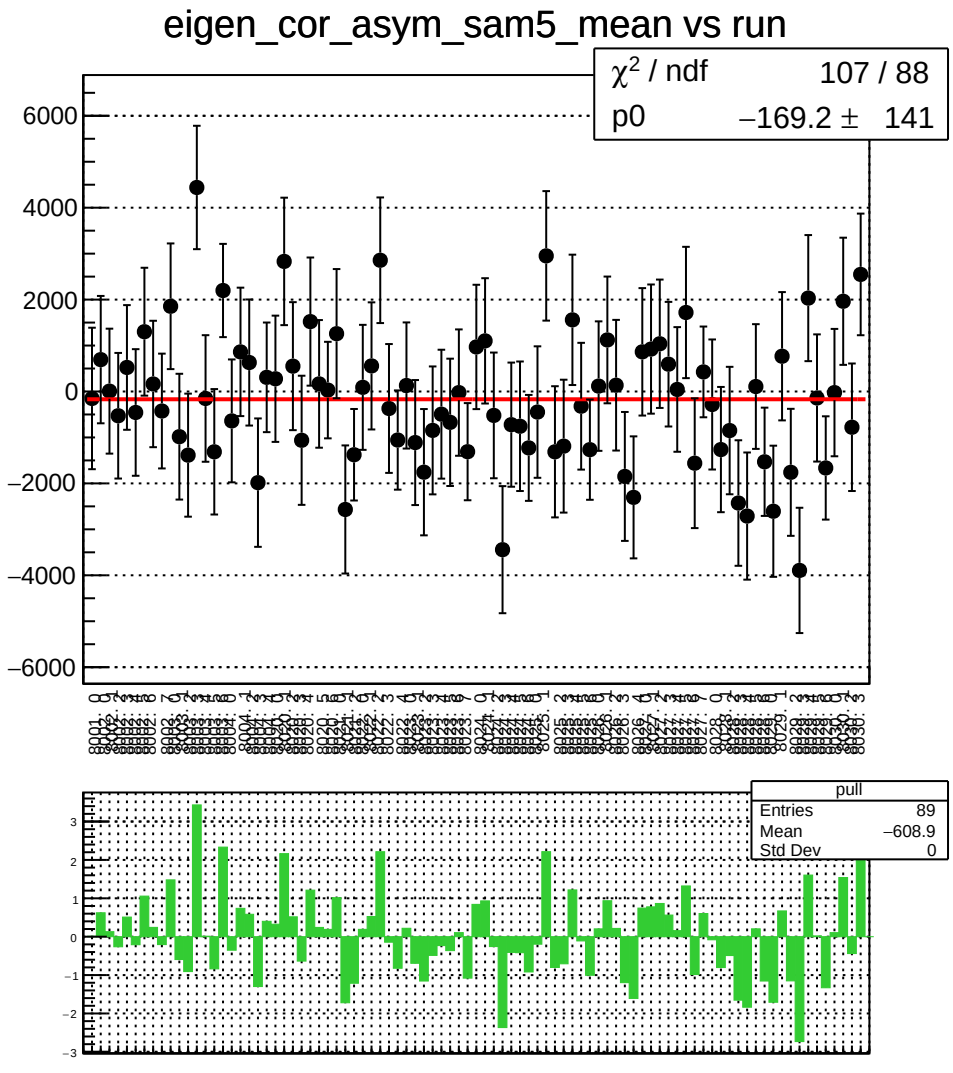

cor_asym_sam5_mean vs run
χ² / ndf 107 / 88
p0 −169.2 ± 141
pull
Entries 89
Mean −608.9
Std Dev 0
pull1D
Entries 89
Mean 0.007929
Std Dev 1.096

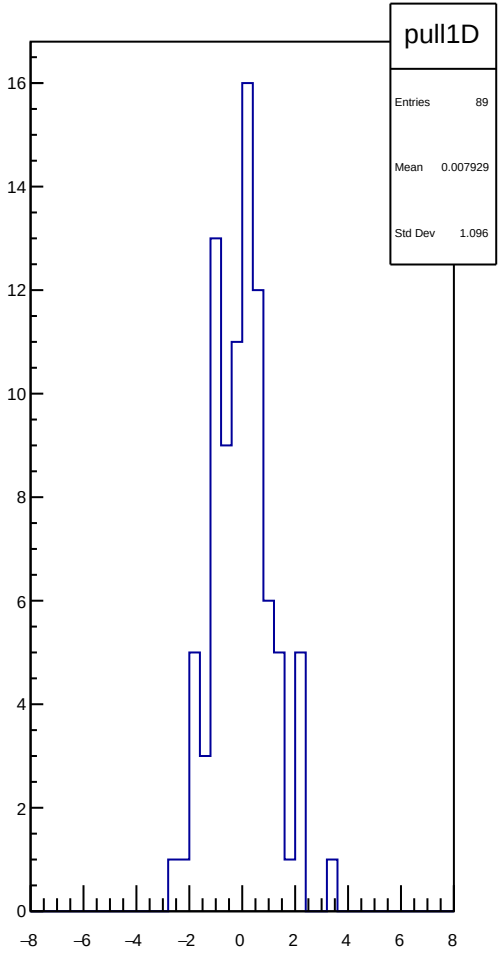

cor_asym_sam5_rms vs run
χ^2 / ndf 443.7 / 88
p0 131.3 ± 0.09969
138
136
134
132
130
128
126

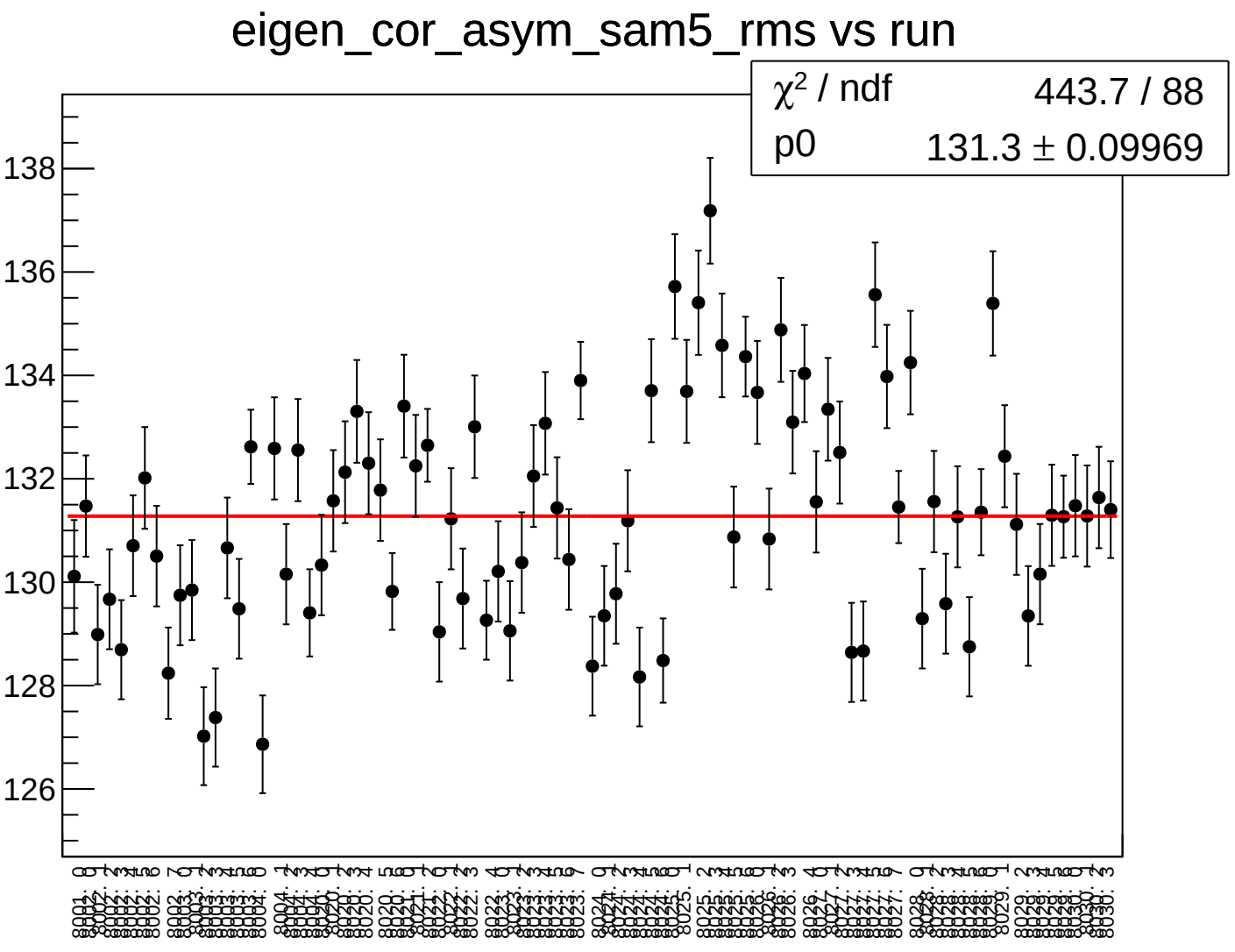

asym_sam5_cor_correction_mean vs run
χ² / ndf 96.8 / 88
p0 304.5 ± 974.8
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean −99.62
Std Dev 0
2
1
0
−1
−2
−3

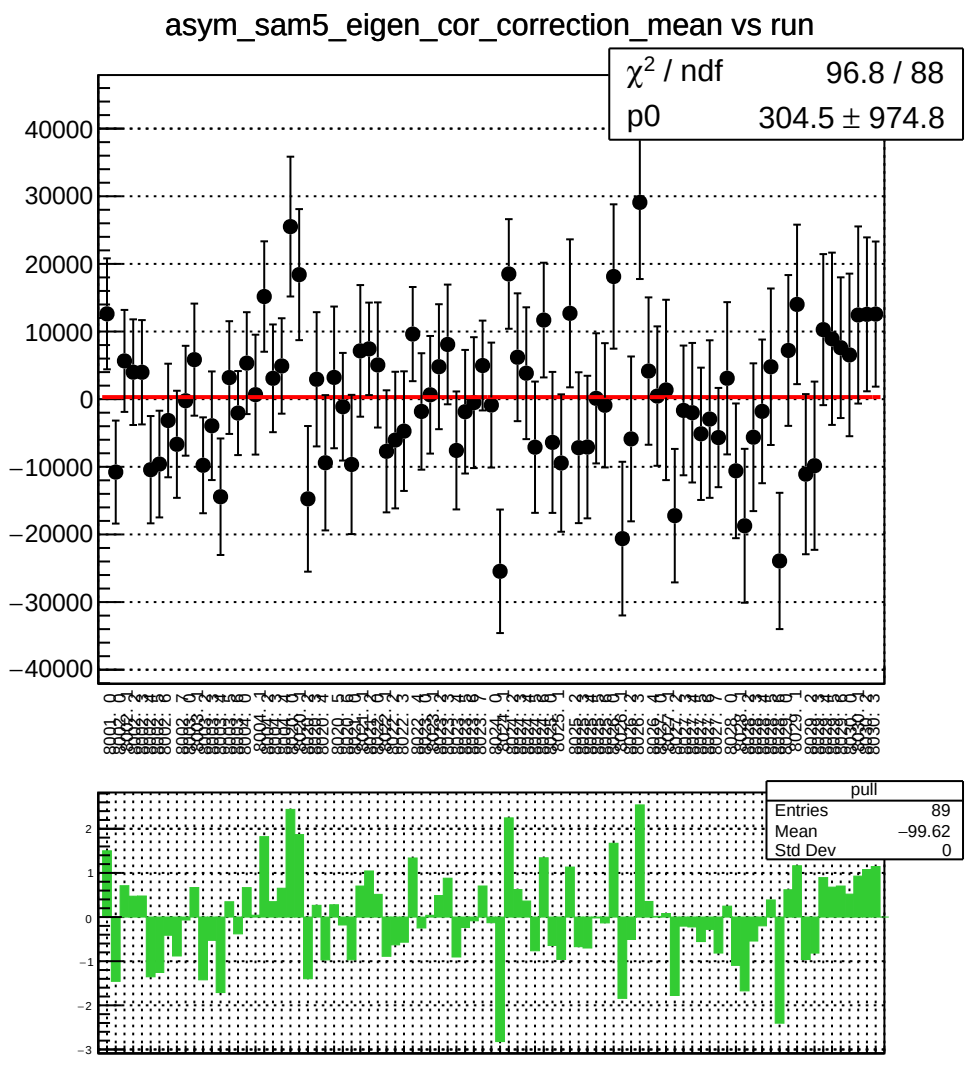

pull1D
Entries 89
Mean −0.003076
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

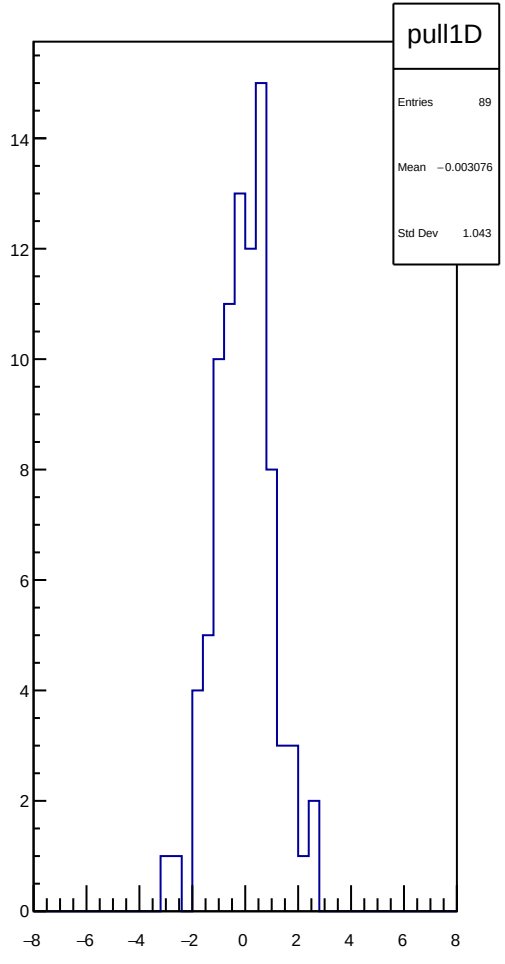

asym_sam5_cor_correction_rms vs run
χ² / ndf 3.791e+04 / 88
p0 897.8 ± 0.6893
1300
1200
1100
1000
900
800
700

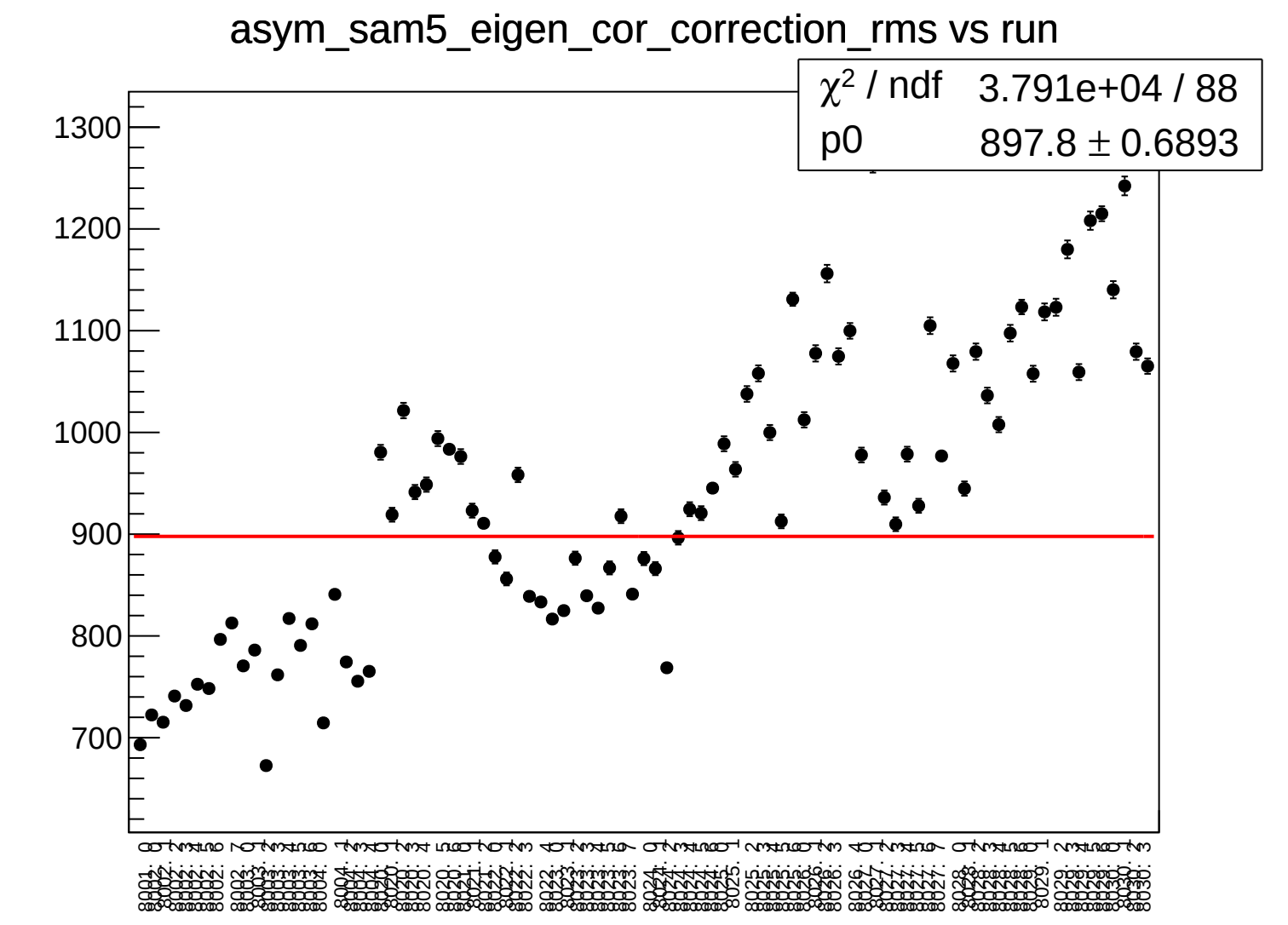

eigen_cor_asym_sam5_mean vs run
χ² / ndf 107 / 88
p0 −169.2 ± 141
pull
Entries 89
Mean −608.9
Std Dev 0

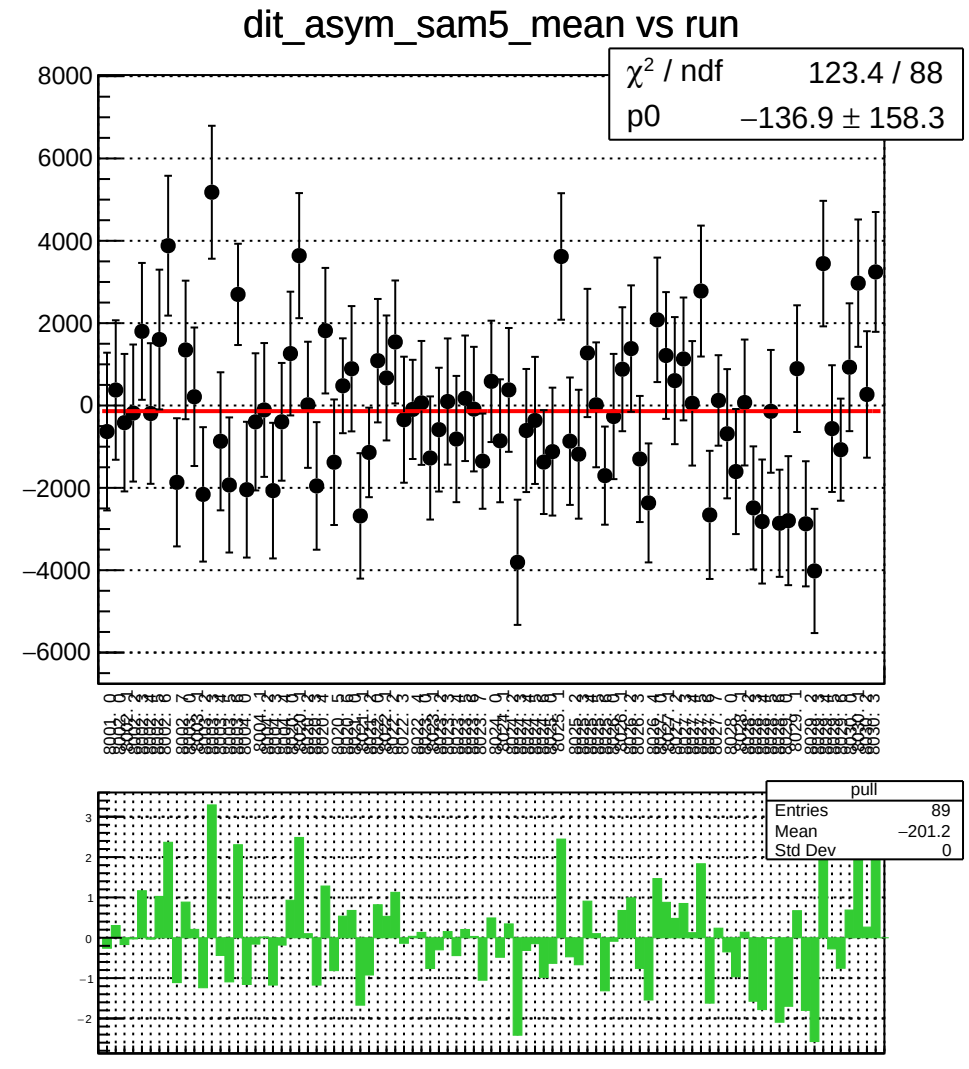

pull1D
Entries 89
Mean 0.007929
Std Dev 1.096

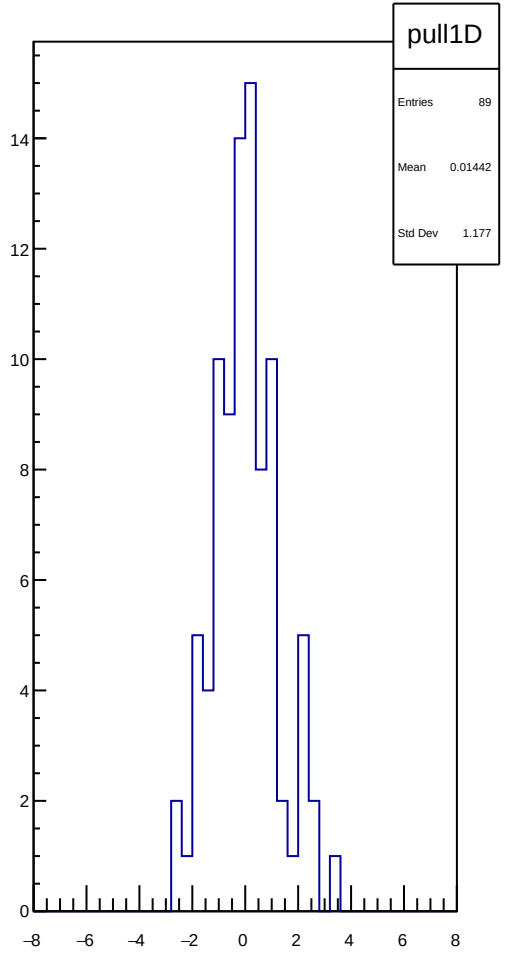

eigen_cor_asym_sam5_rms vs run
χ² / ndf 443.7 / 88
p0 131.3 ± 0.09969
138
136
134
132
130
128
126

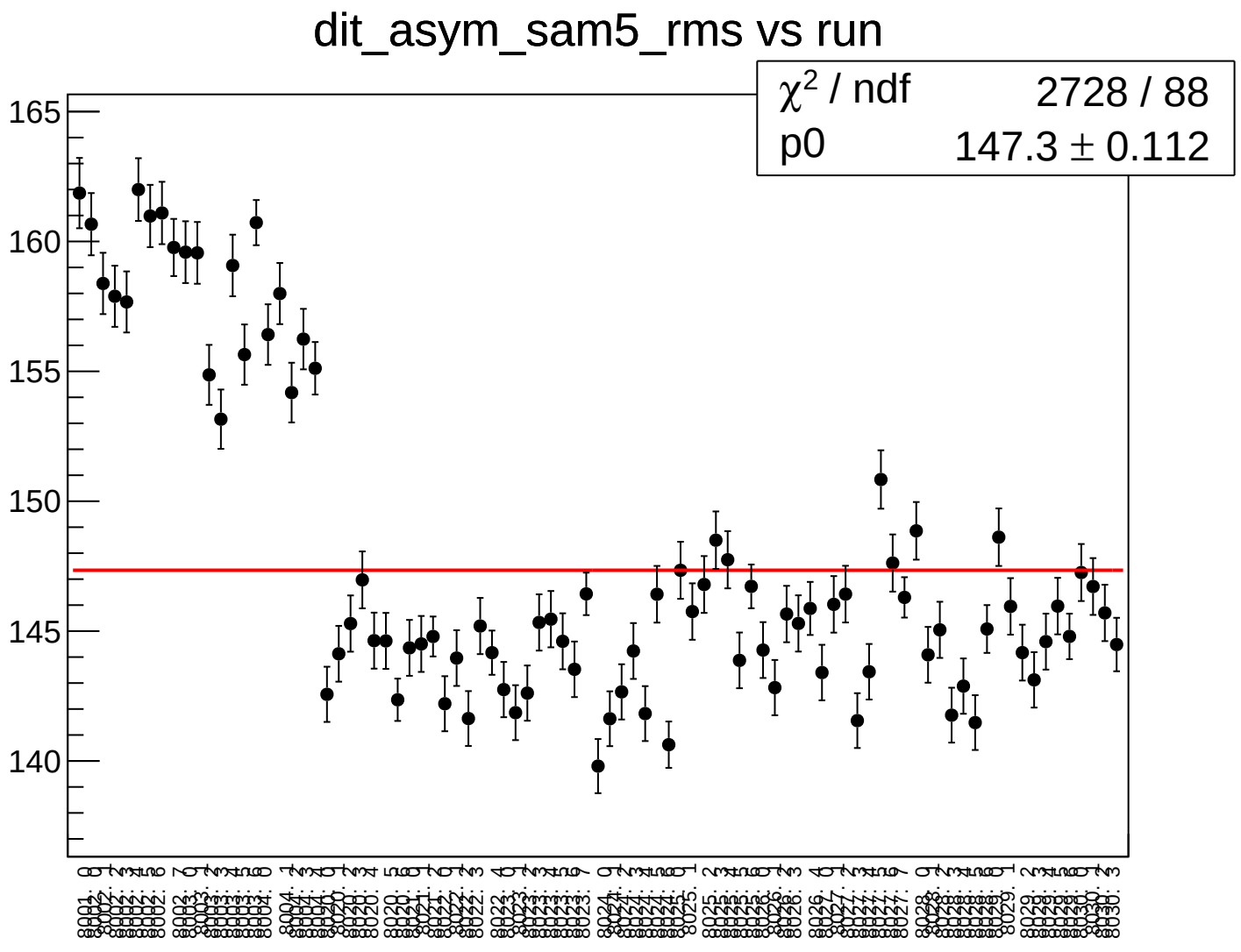

asym_sam5_eigen_cor_correction_mean vs run
χ² / ndf 96.8 / 88
p0 304.5 ± 974.8
pull
Entries 89
Mean −99.62
Std Dev 0

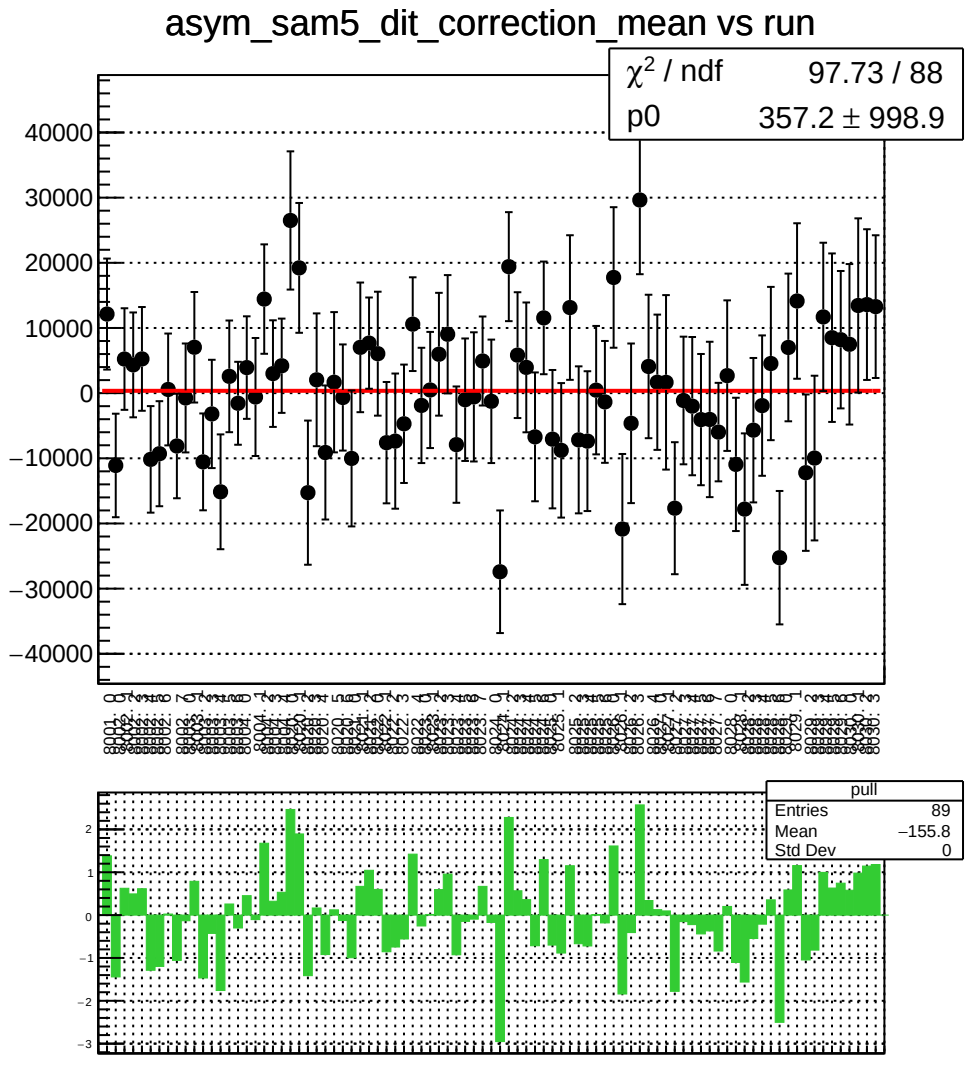

pull1D
Entries 89
Mean −0.003076
Std Dev 1.043

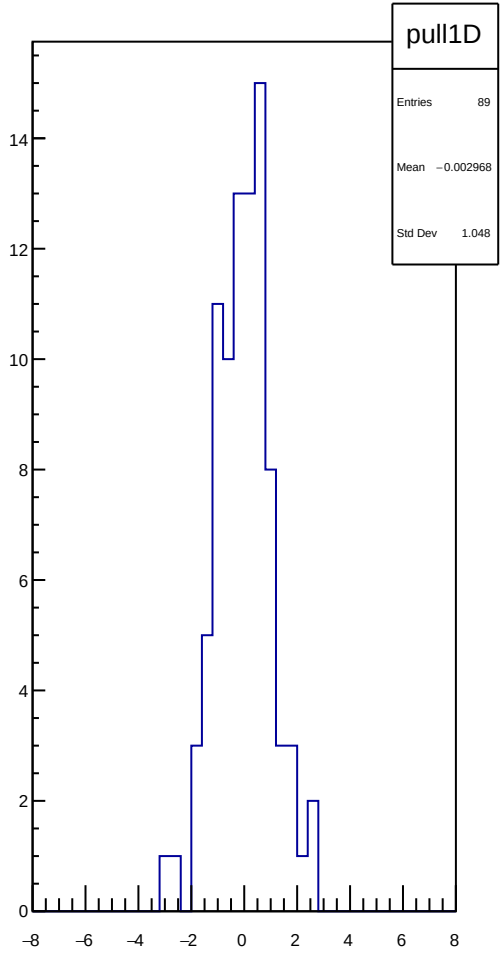

asym_sam5_eigen_cor_correction_rms vs run
χ² / ndf 3.791e+04 / 88
p0 897.8 ± 0.6893
1300
1200
1100
1000
900
800
700

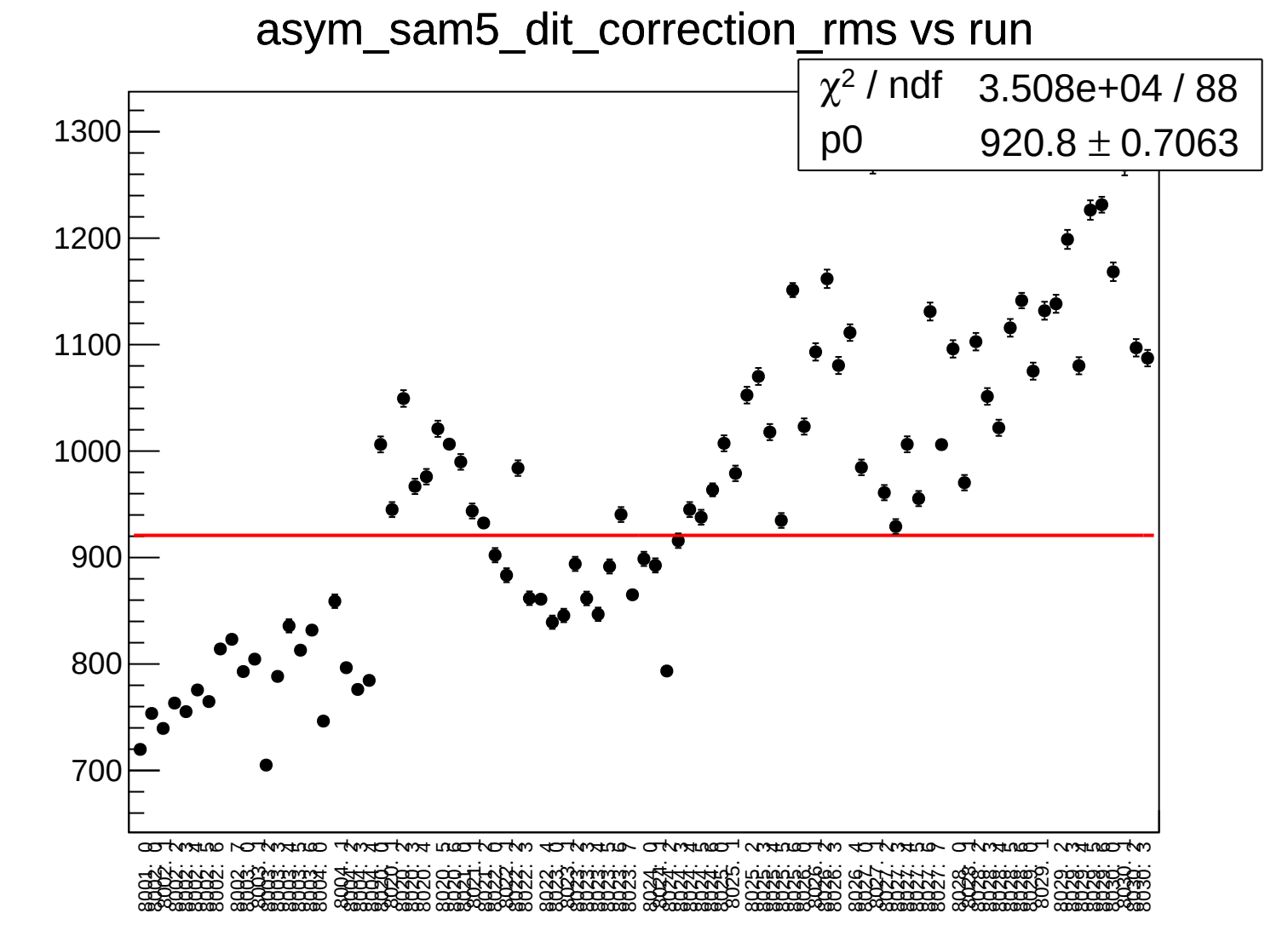

dit_asym_sam5_mean vs run
χ² / ndf 123.4 / 88
p0 −136.9 ± 158.3
pull
Entries 89
Mean −201.2
Std Dev 0

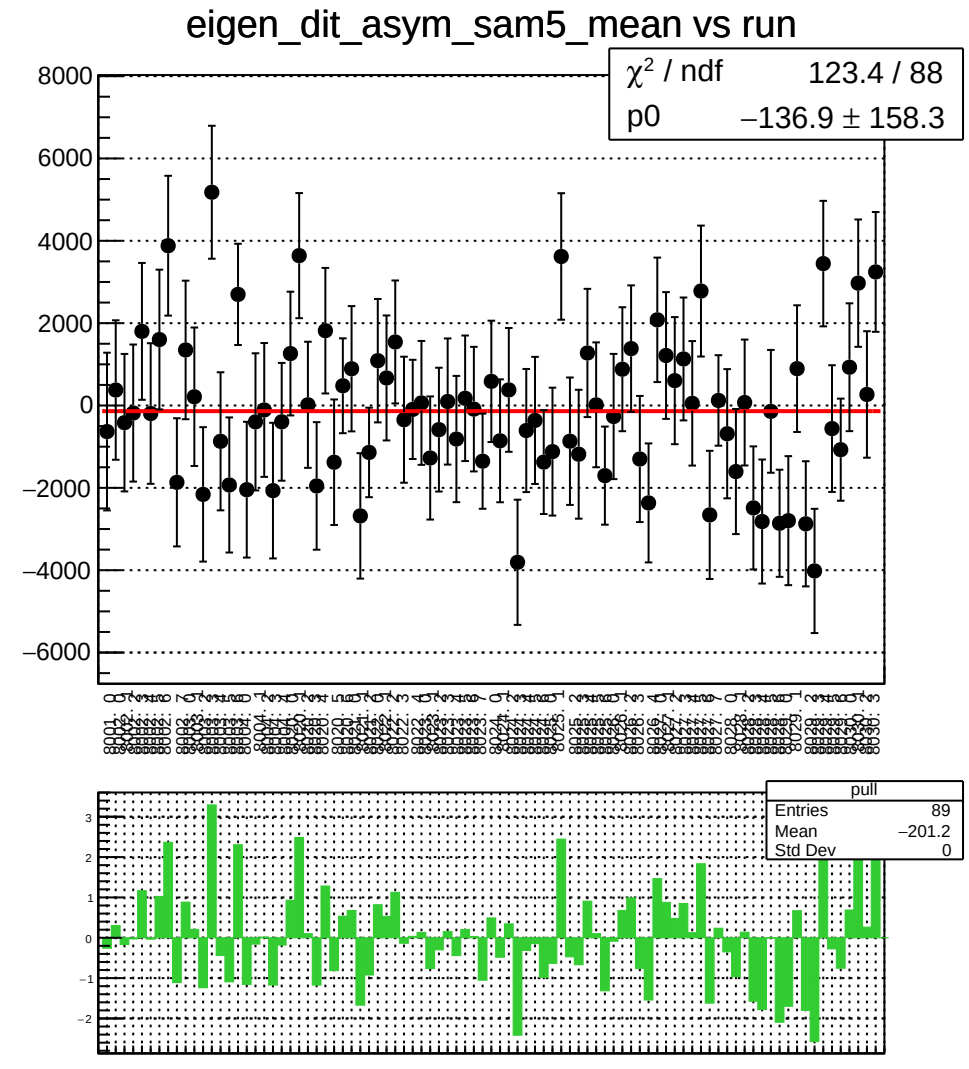

pull1D
Entries 89
Mean 0.01442
Std Dev 1.177

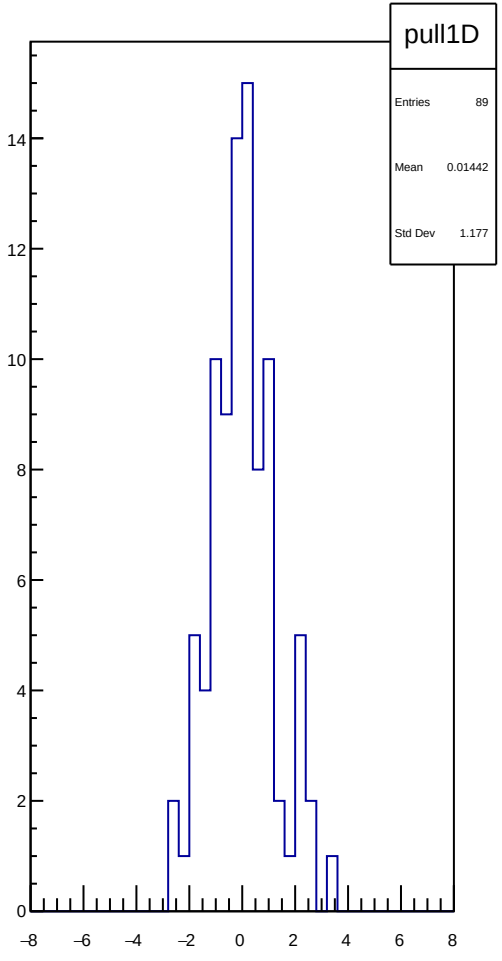

dit_asym_sam5_rms vs run
χ² / ndf 2728 / 88
p0 147.3 ± 0.112
165
160
155
150
145
140

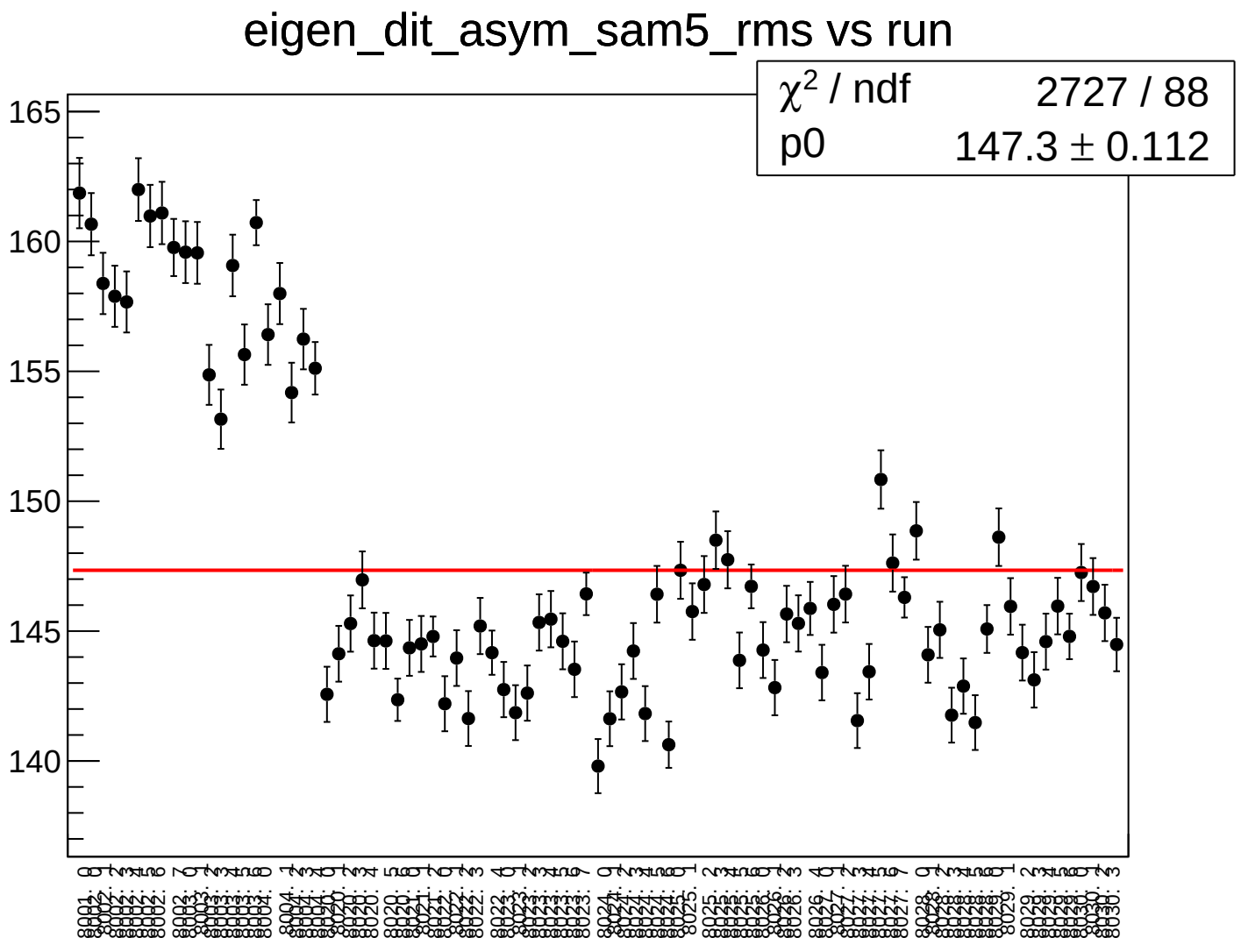

asym_sam5_dit_correction_mean vs run
χ² / ndf 97.73 / 88
p0 357.2 ± 998.9
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean −155.8
Std Dev 0
2
1
0
−1
−2
−3

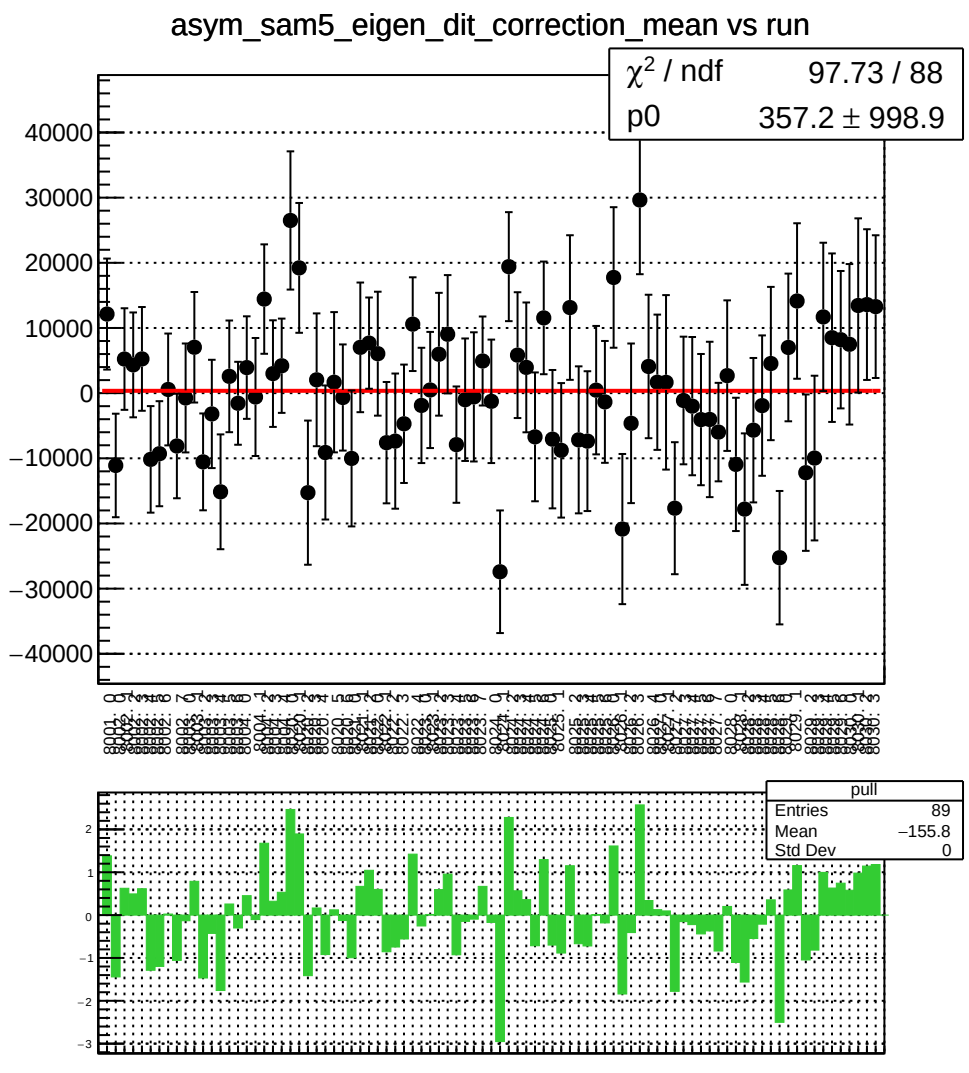

pull1D
Entries 89
Mean −0.002968
Std Dev 1.048
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

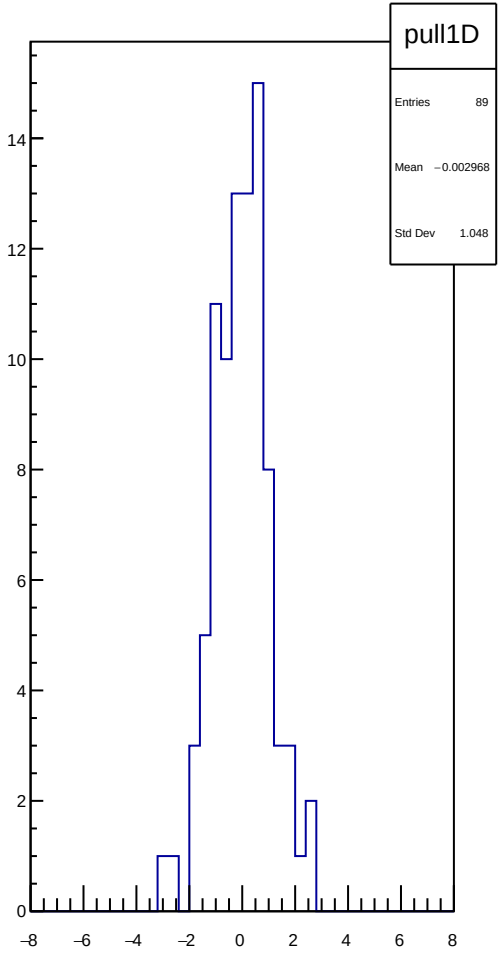

asym_sam5_dit_correction_rms vs run
χ² / ndf 3.508e+04 / 88
p0 920.8 ± 0.7063
1300
1200
1100
1000
900
800
700

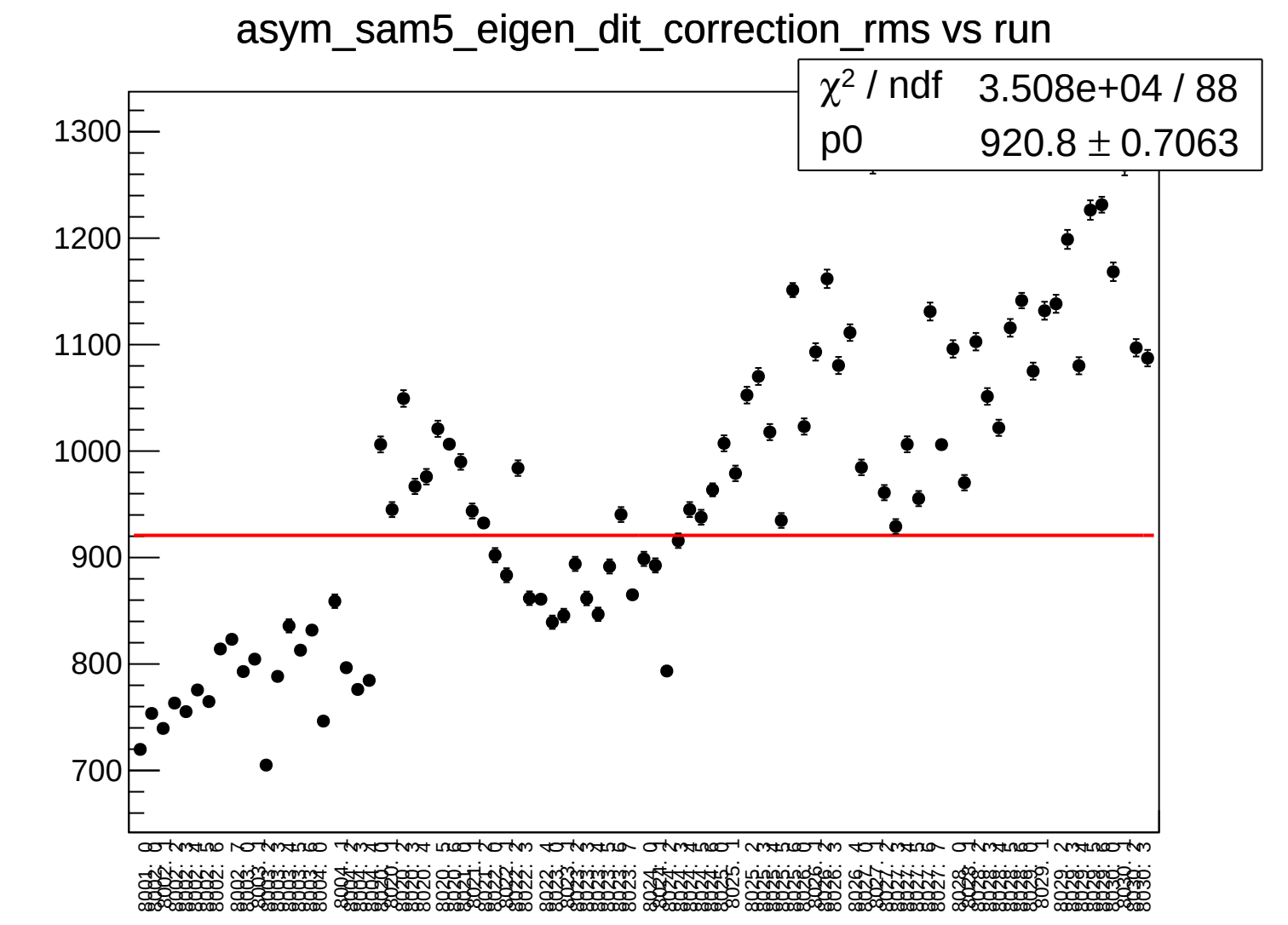

eigen_dit_asym_sam5_mean vs run
χ² / ndf 123.4 / 88
p0 −136.9 ± 158.3
pull
Entries 89
Mean −201.2
Std Dev 0

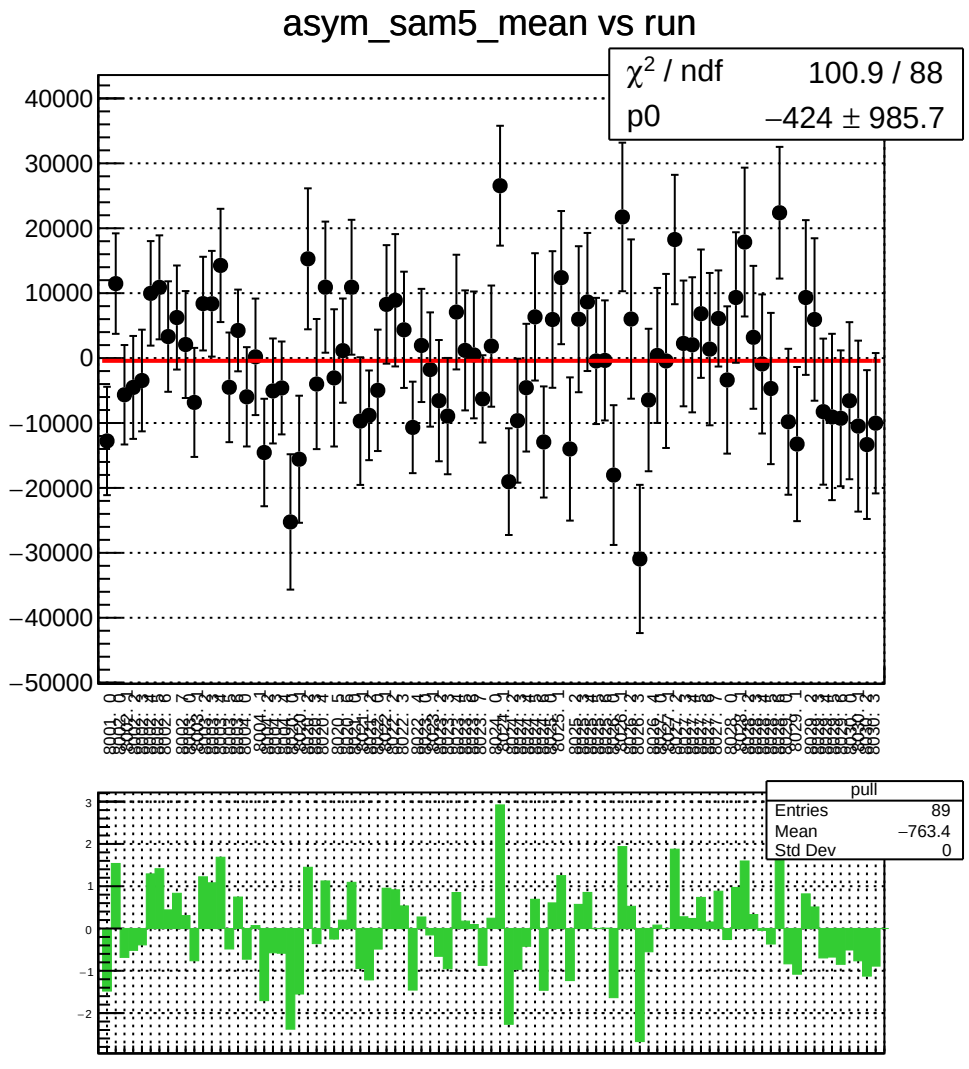

pull1D
Entries 89
Mean 0.01442
Std Dev 1.177

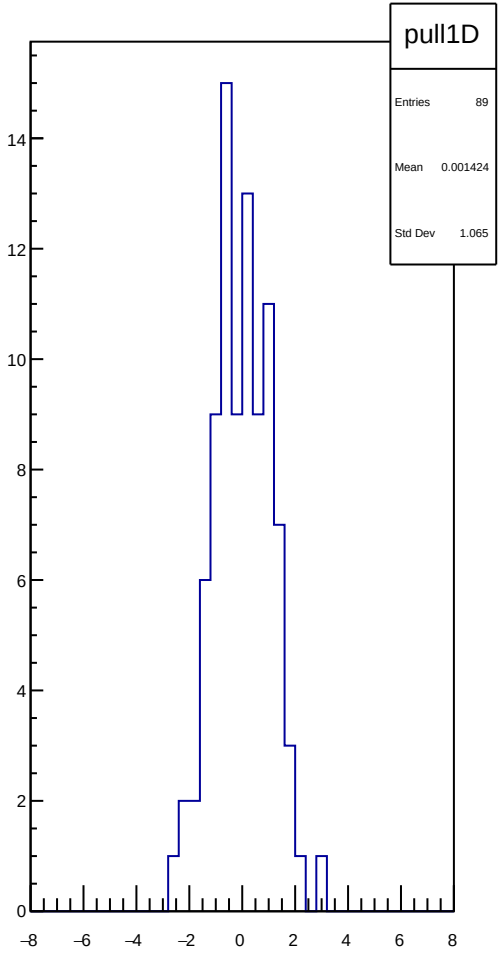

eigen_dit_asym_sam5_rms vs run
χ² / ndf 2727 / 88
p0 147.3 ± 0.112
165
160
155
150
145
140

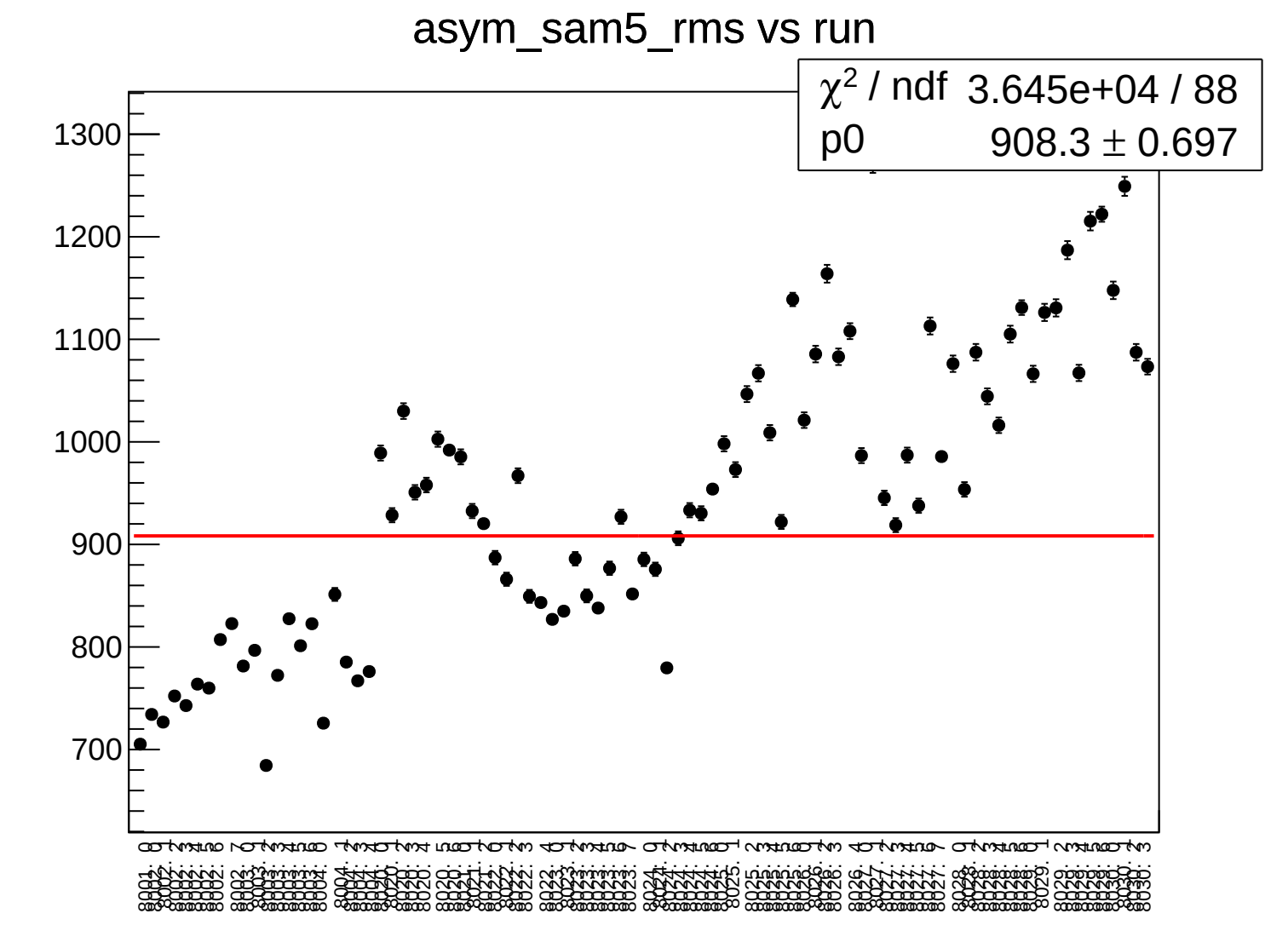

asym_sam5_eigen_dit_correction_mean vs run
χ² / ndf 97.73 / 88
p0 357.2 ± 998.9
pull
Entries 89
Mean −155.8
Std Dev 0

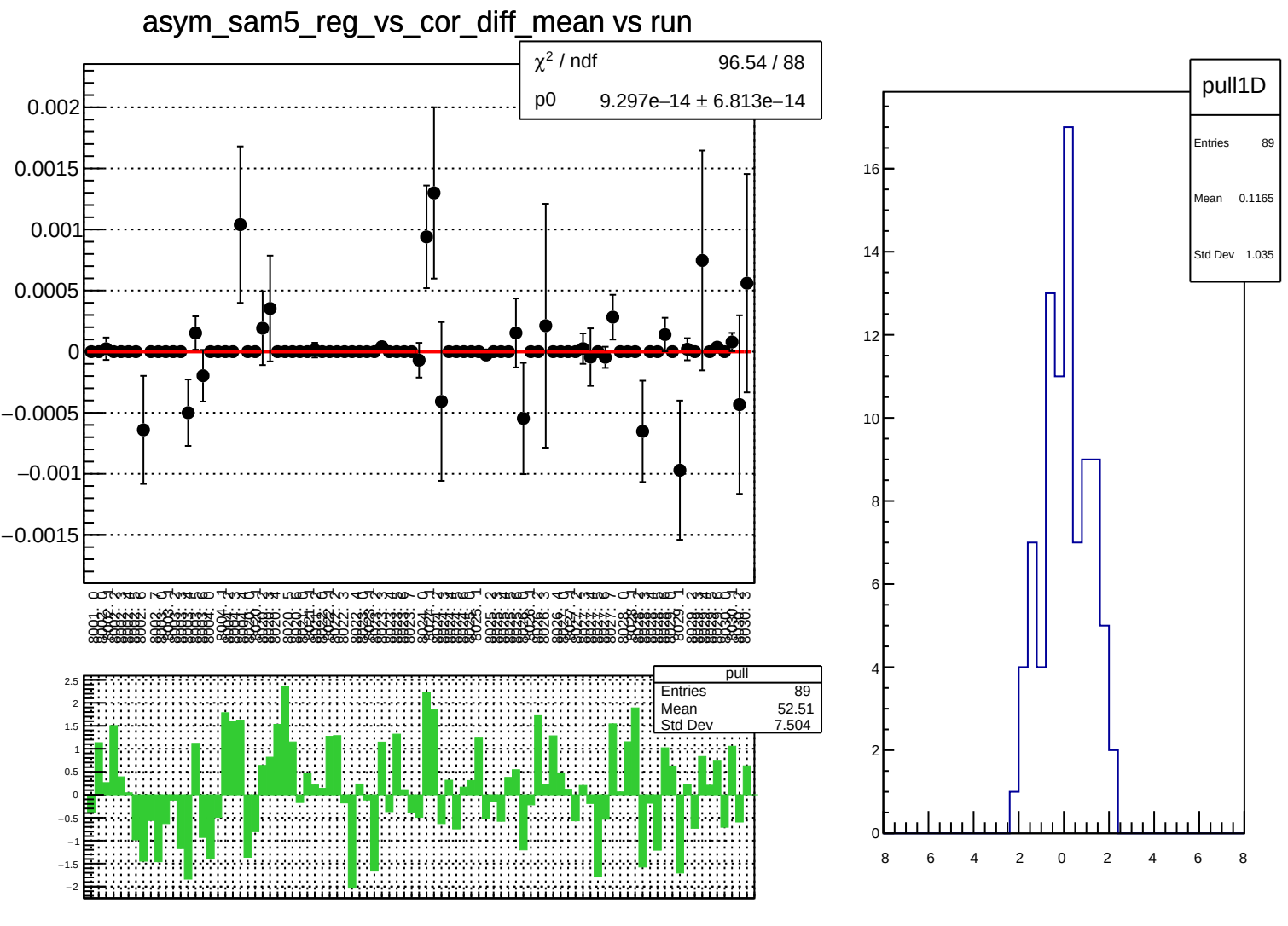

pull1D
Entries 89
Mean −0.002968
Std Dev 1.048

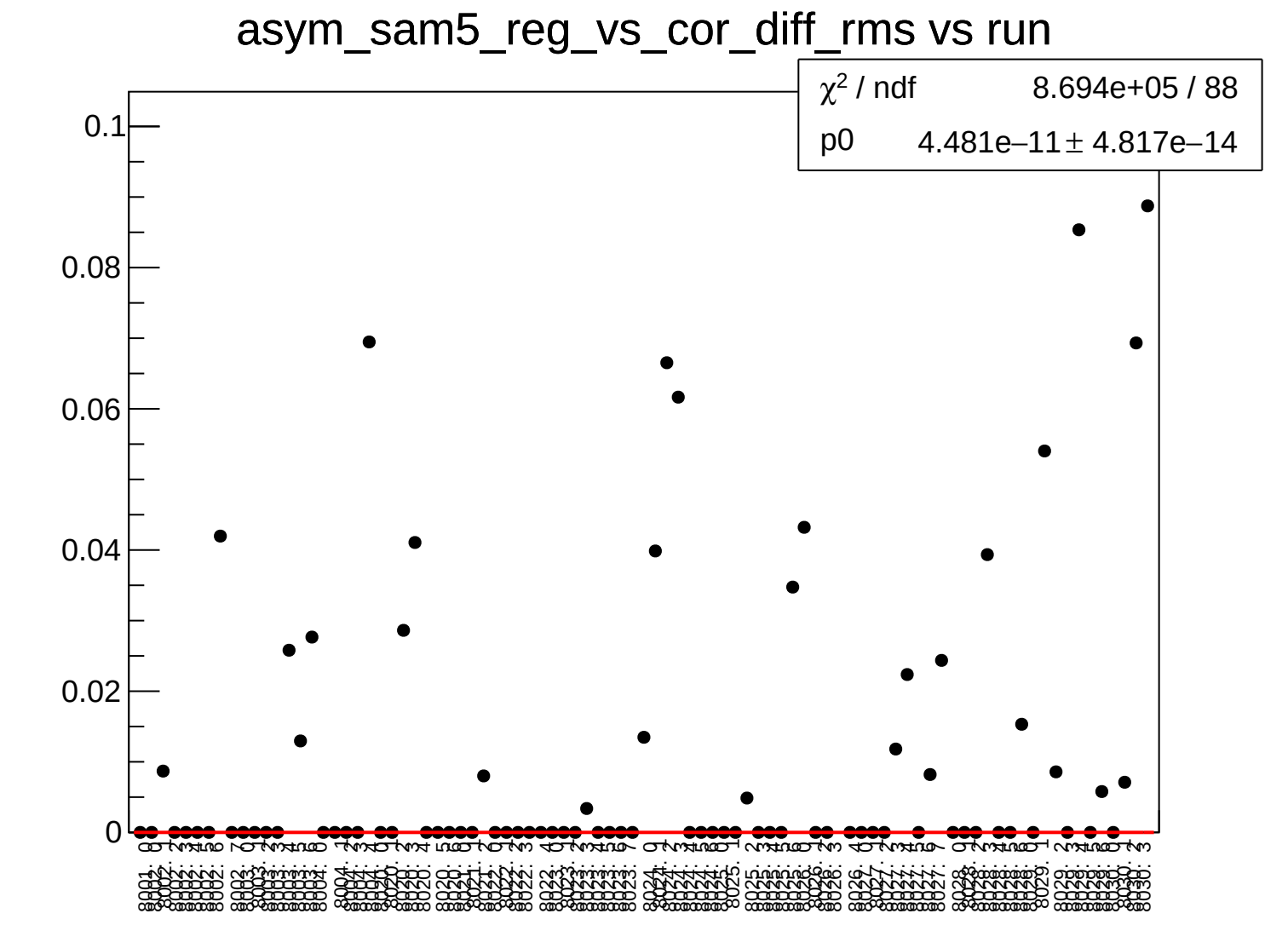

asym_sam5_eigen_dit_correction_rms vs run
χ² / ndf 3.508e+04 / 88
p0 920.8 ± 0.7063
1300
1200
1100
1000
900
800
700

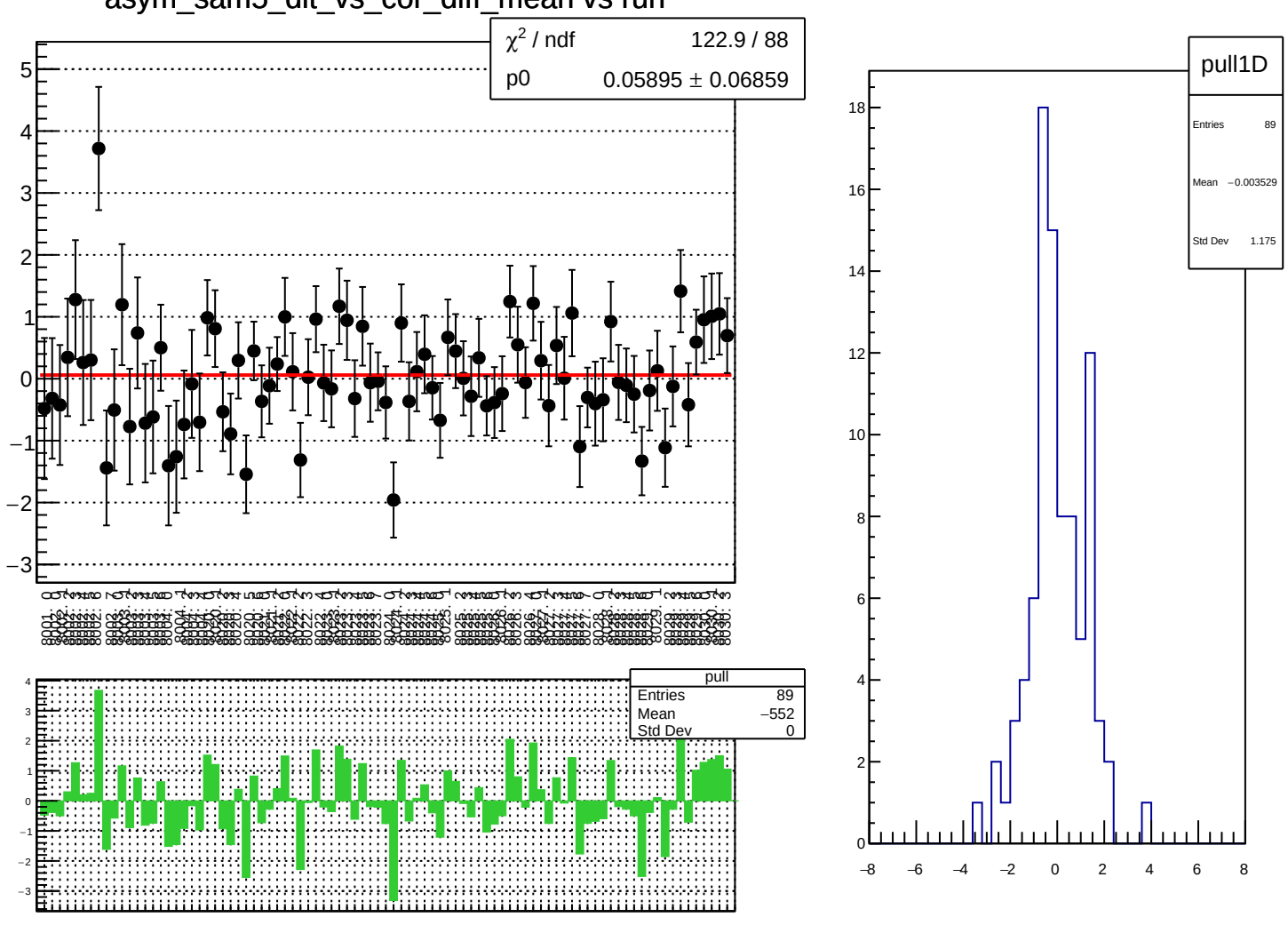

asym_sam5_mean vs run
χ² / ndf 100.9 / 88
p0 −424 ± 985.7
pull
Entries 89
Mean −763.4
Std Dev 0

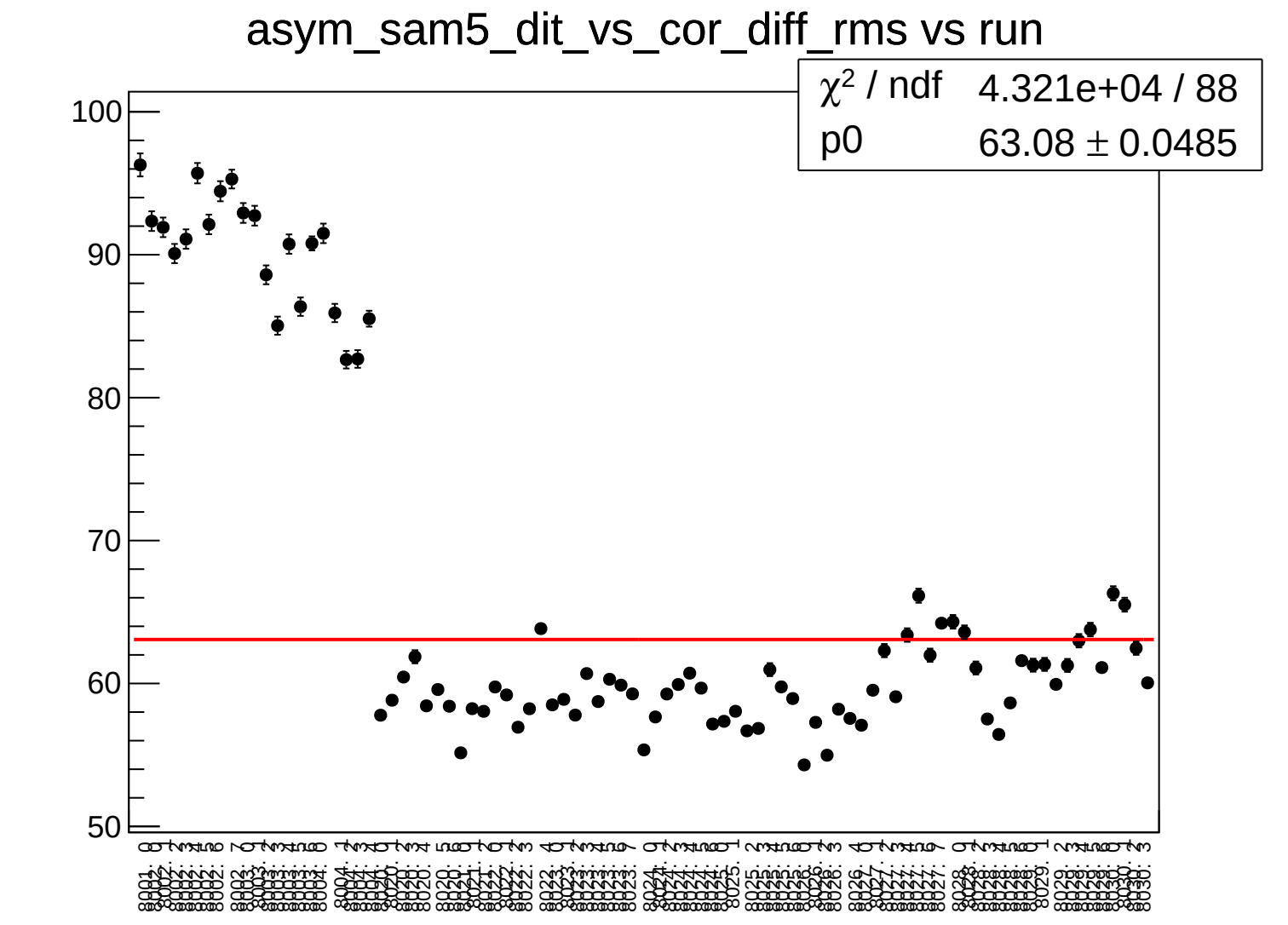

pull1D
Entries 89
Mean 0.001424
Std Dev 1.065

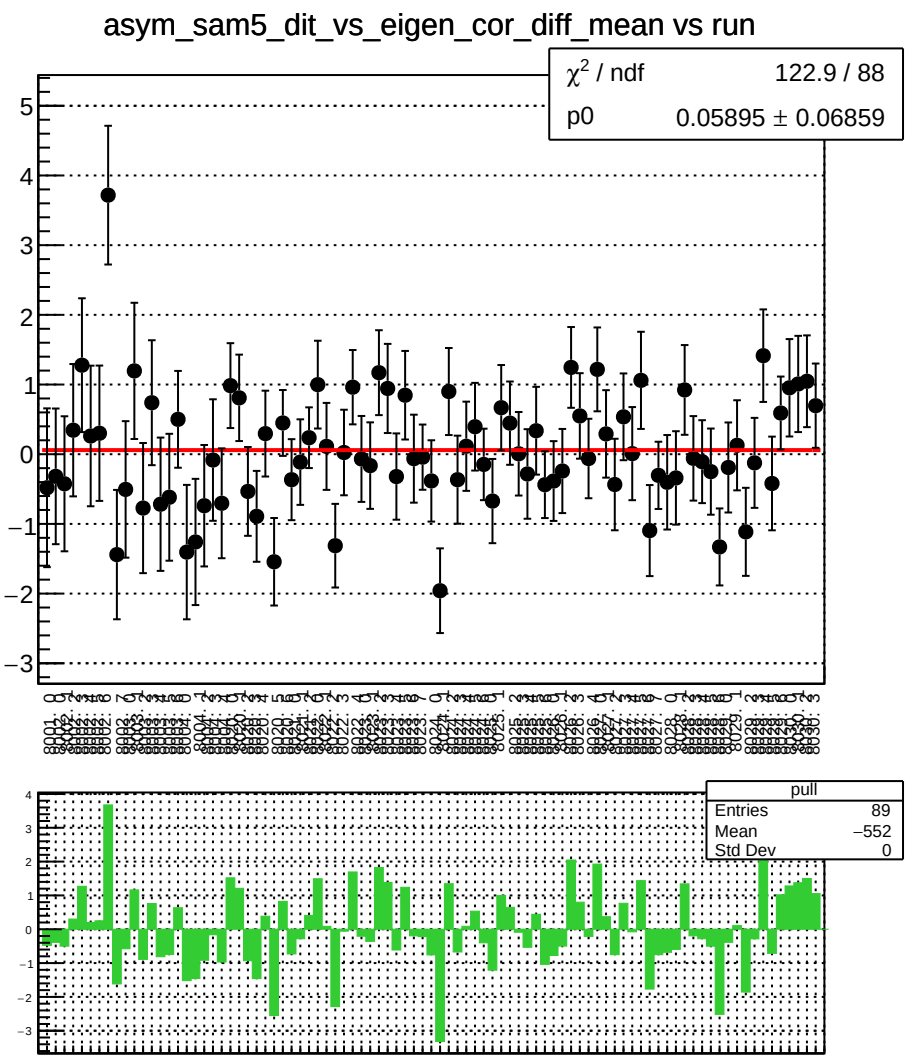

asym_sam5_rms vs run
χ² / ndf 3.645e+04 / 88
p0 908.3 ± 0.697
1300
1200
1100
1000
900
800
700

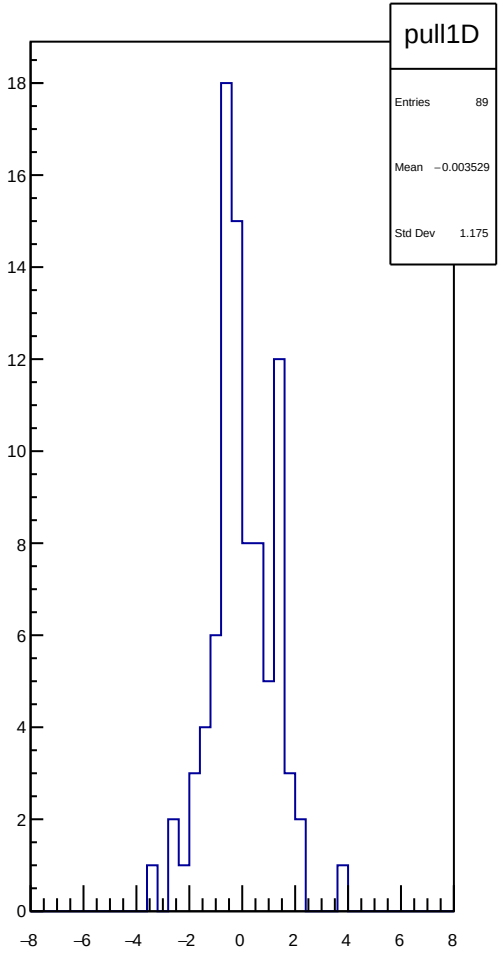

asym_sam5_reg_vs_cor_diff_mean vs run
χ² / ndf 96.54 / 88
p0 9.297e−14 ± 6.813e−14
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 89
Mean 52.51
Std Dev 7.504
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean 0.1165
Std Dev 1.035
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

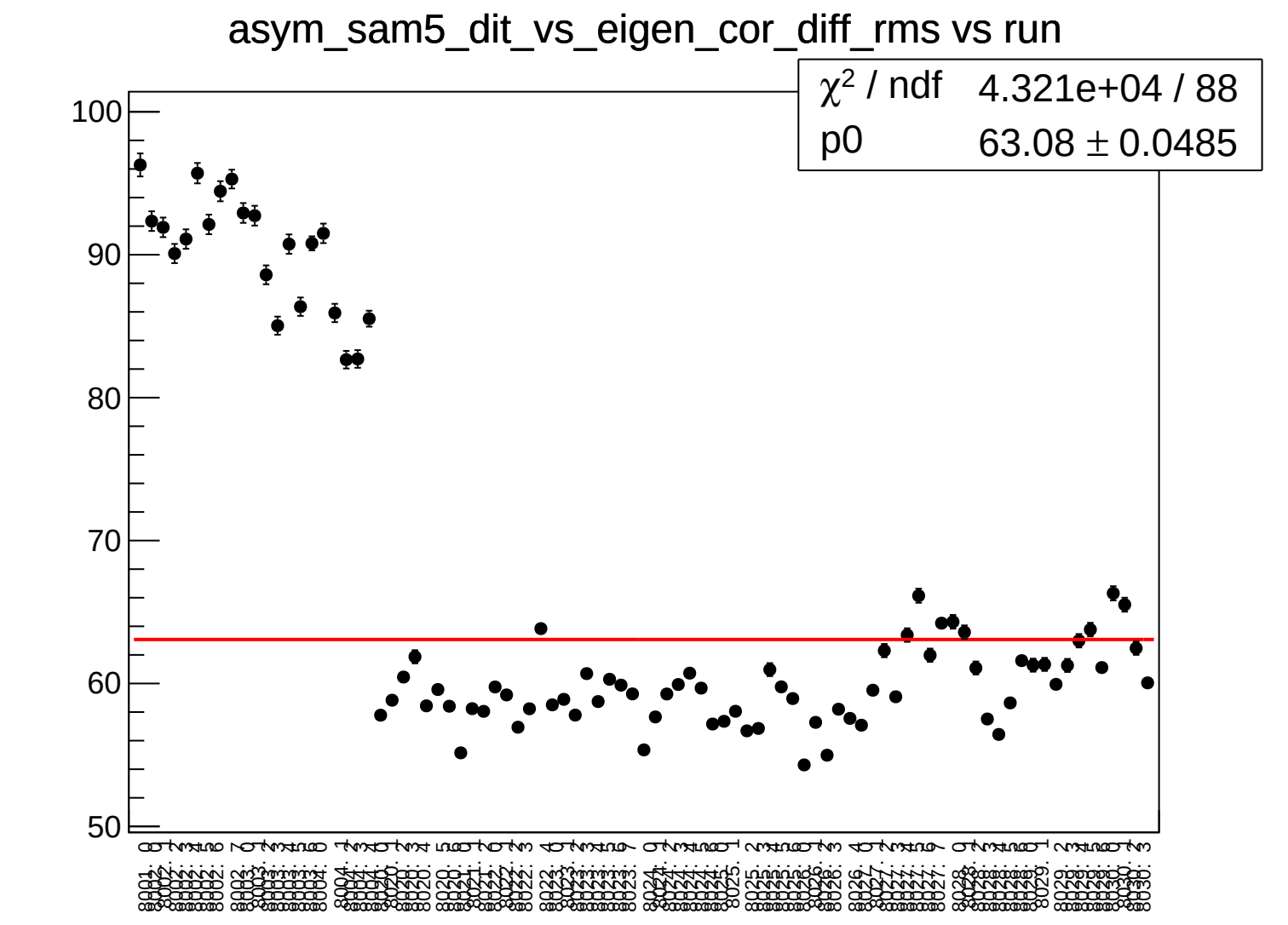

asym_sam5_reg_vs_cor_diff_rms vs run
χ² / ndf 8.694e+05 / 88
p0 4.481e−11 ± 4.817e−14
0.1
0.08
0.06
0.04
0.02
0

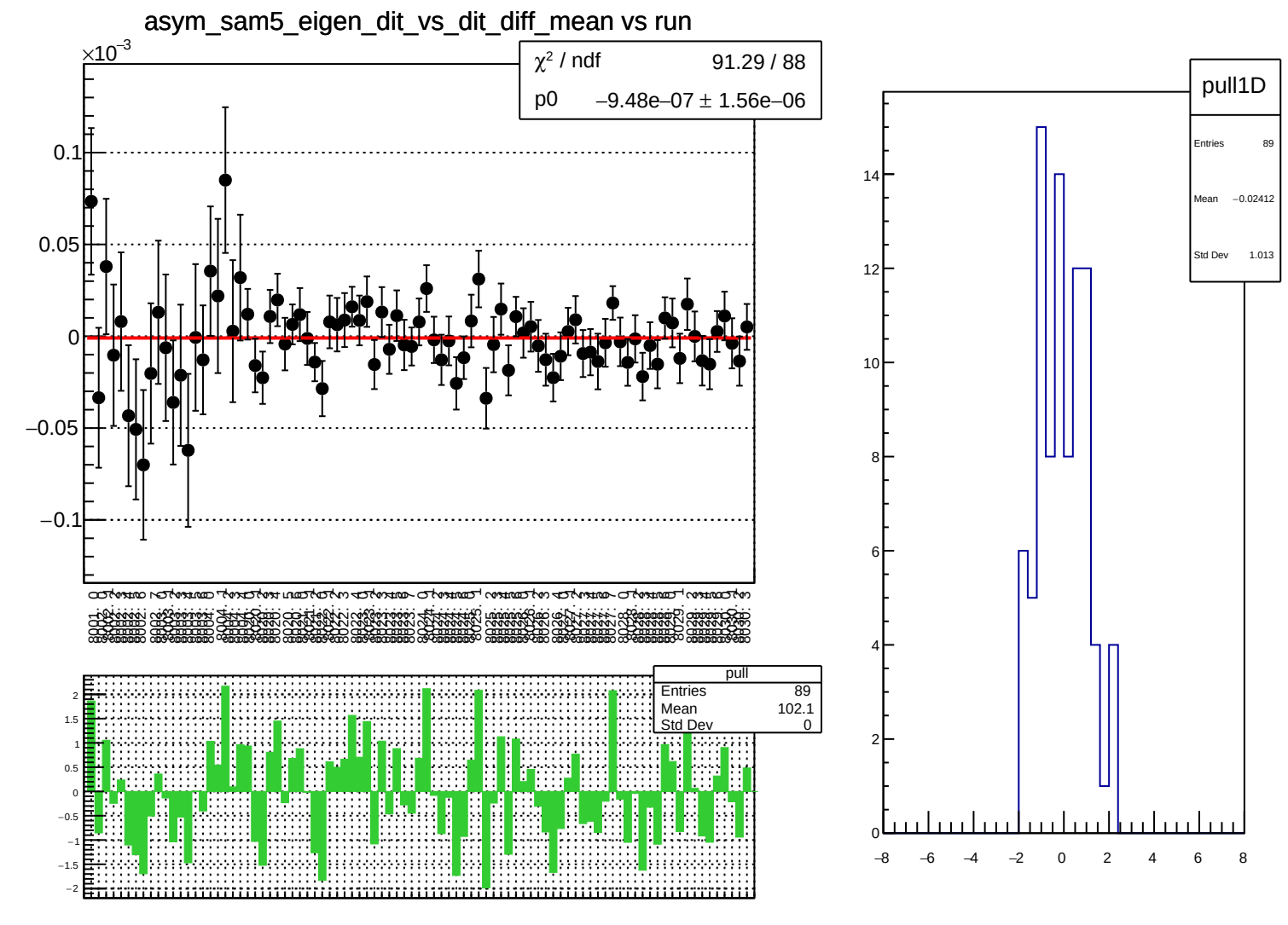

asym_sam5_dit_vs_cor_diff_mean vs run
χ² / ndf 122.9 / 88
p0 0.05895 ± 0.06859
pull
Entries 89
Mean −552
Std Dev 0
pull1D
Entries 89
Mean −0.003529
Std Dev 1.175

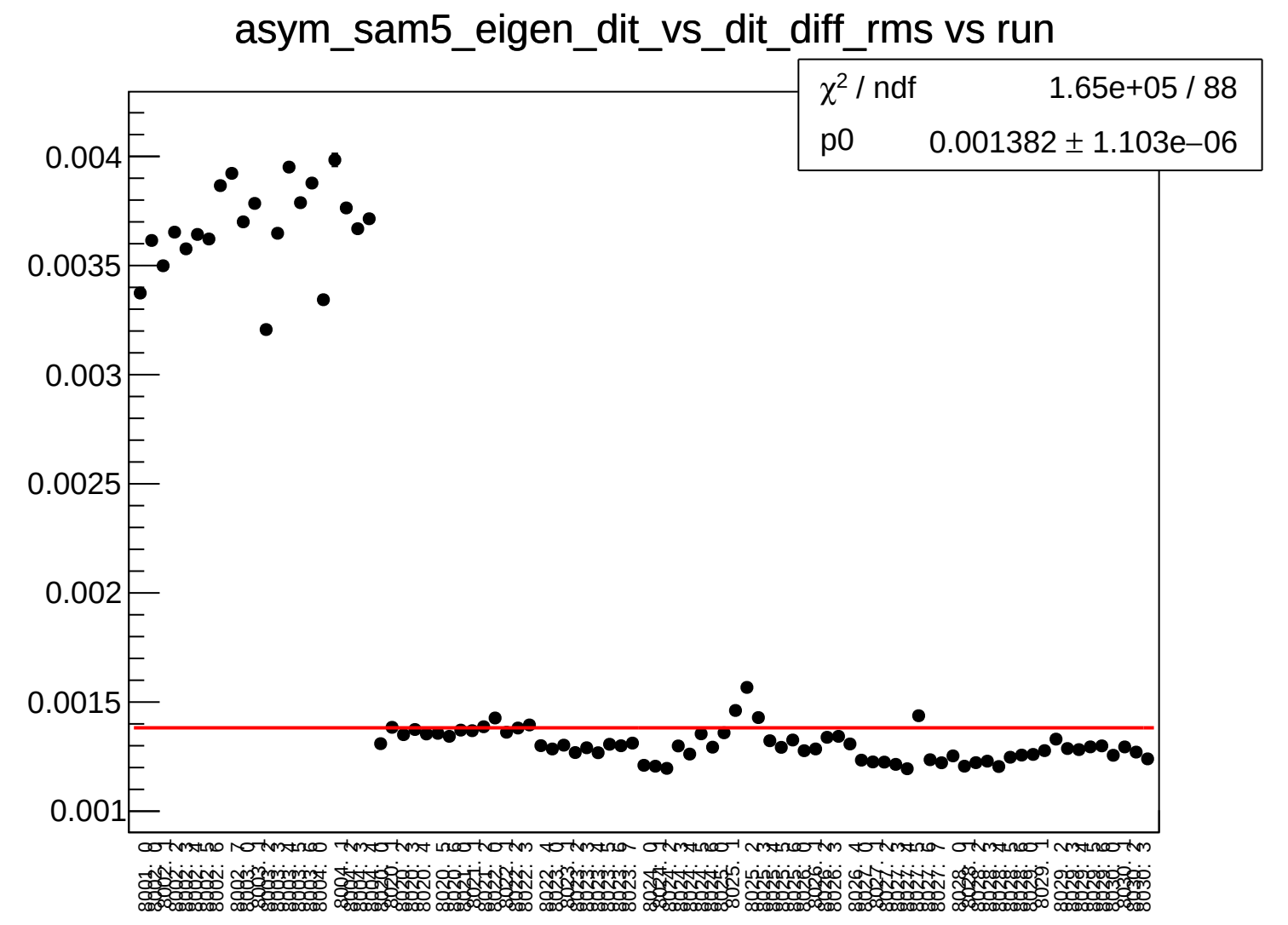

asym_sam5_dit_vs_cor_diff_rms vs run
χ² / ndf 4.321e+04 / 88
p0 63.08 ± 0.0485
100
90
80
70
60
50

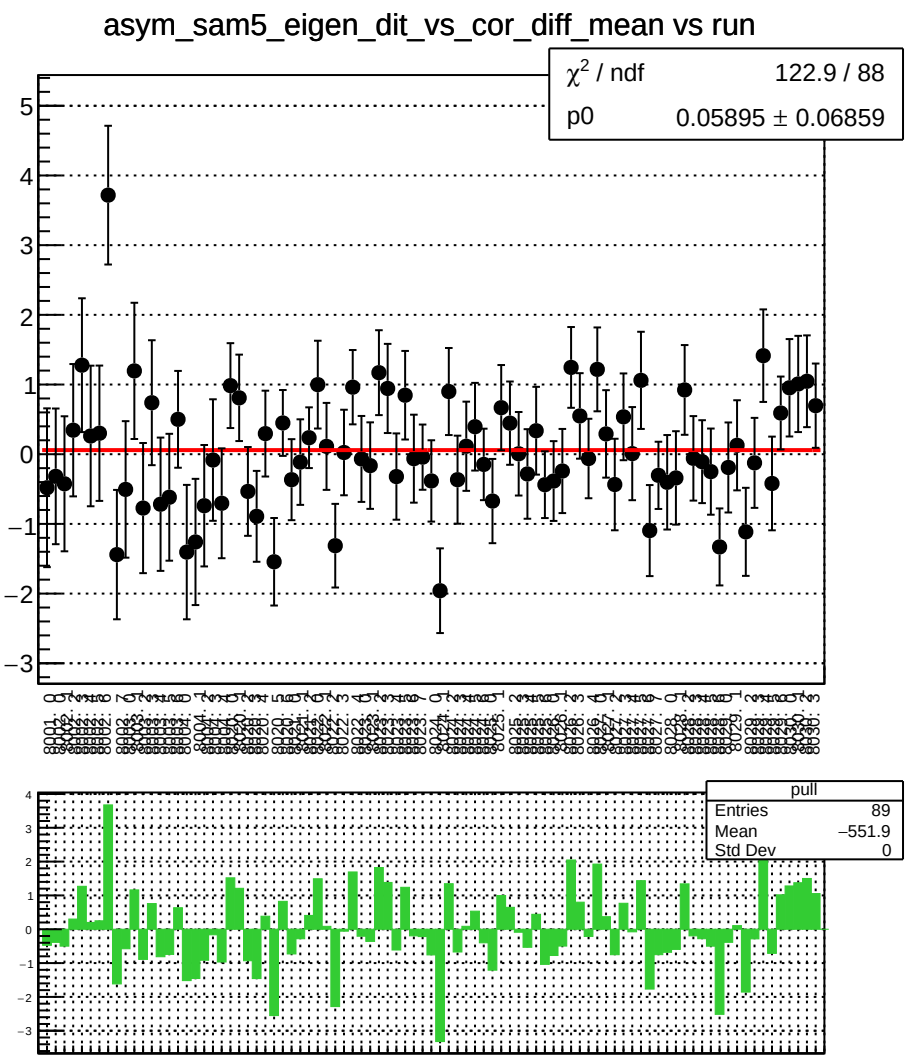

asym_sam5_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 122.9 / 88
p0 0.05895 ± 0.06859
pull
Entries 89
Mean −552
Std Dev 0

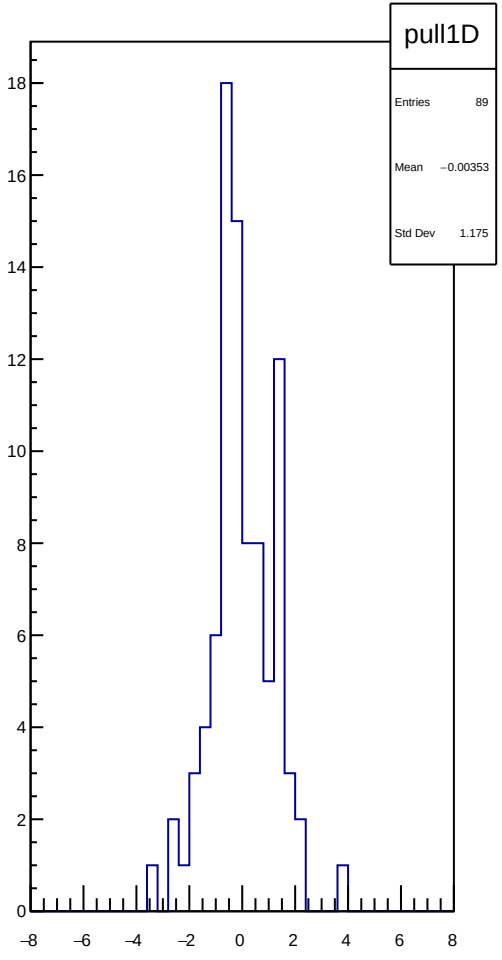

pull1D
Entries 89
Mean −0.003529
Std Dev 1.175

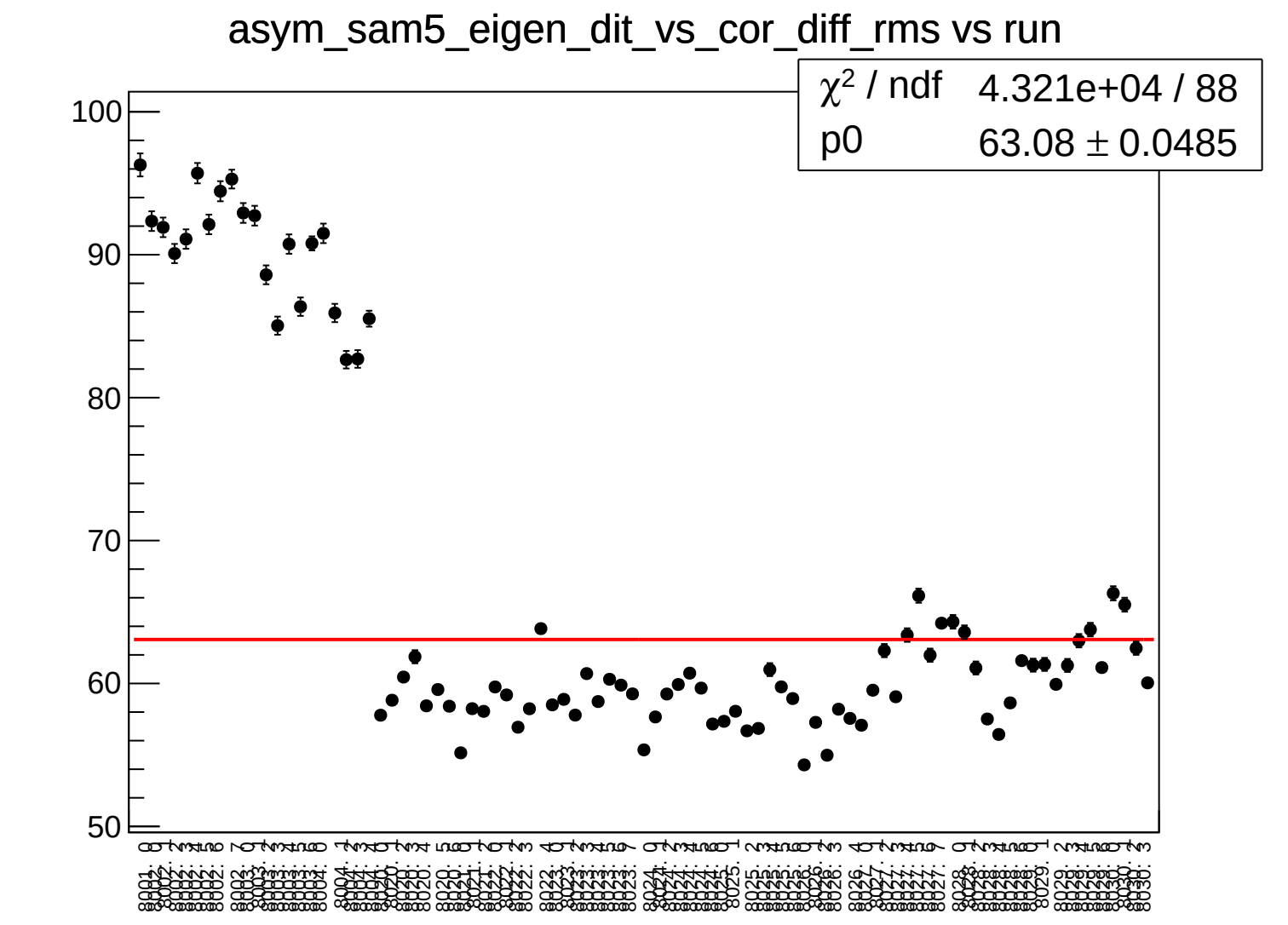

asym_sam5_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.321e+04 / 88
p0 63.08 ± 0.0485
100
90
80
70
60
50

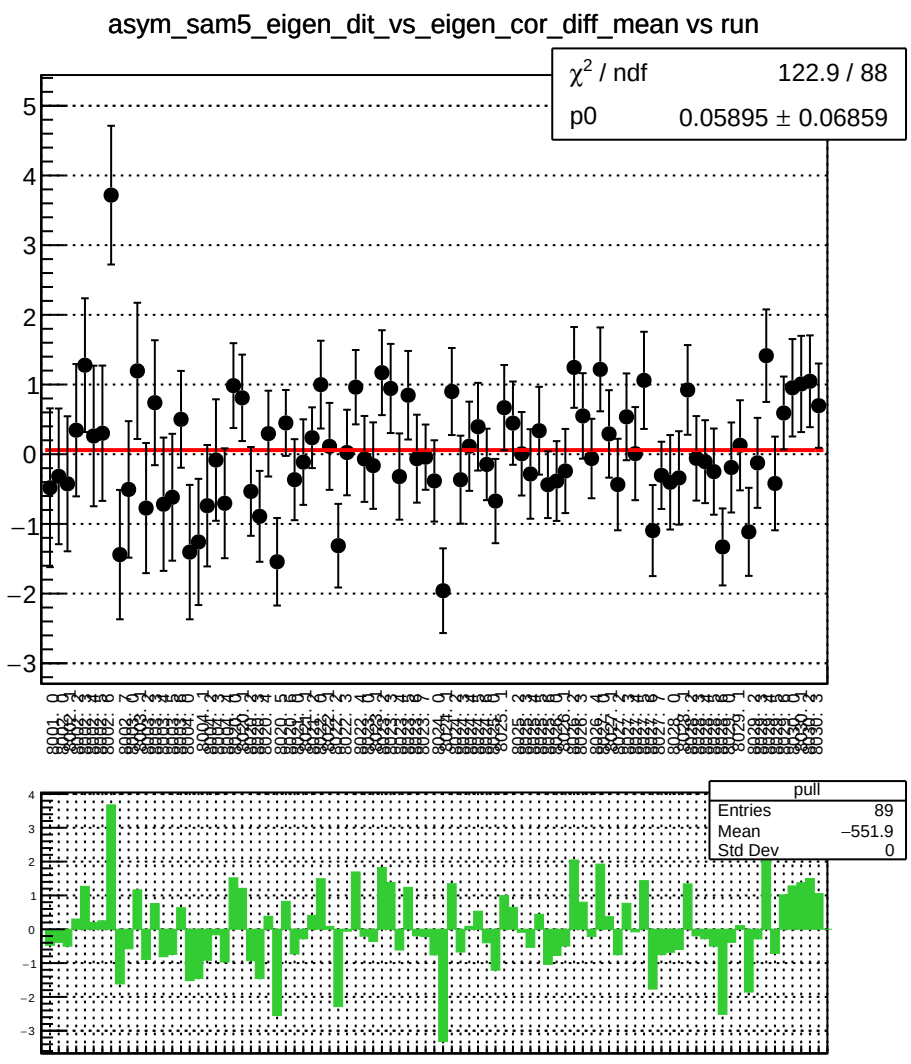

asym_sam5_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.29 / 88
p0 −9.48e−07 ± 1.56e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 89
Mean 102.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean −0.02412
Std Dev 1.013
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

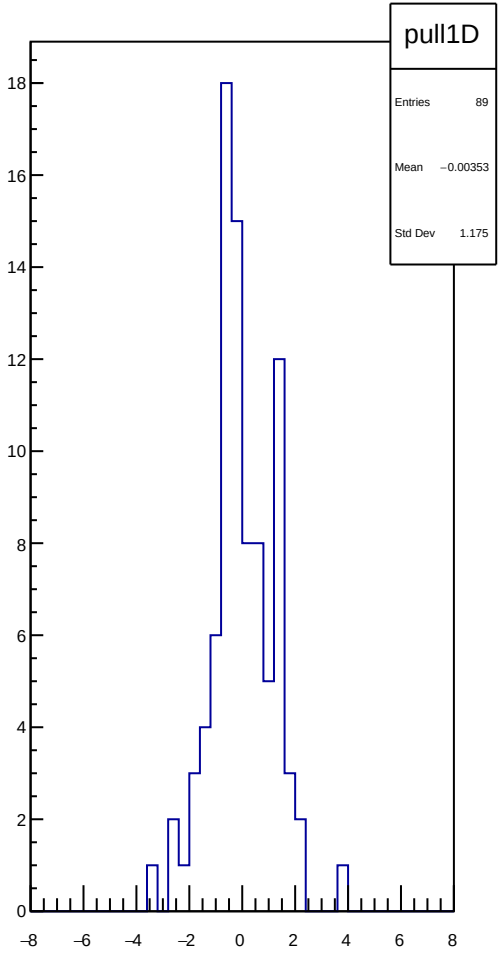

asym_sam5_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.65e+05 / 88
p0 0.001382 ± 1.103e−06
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001

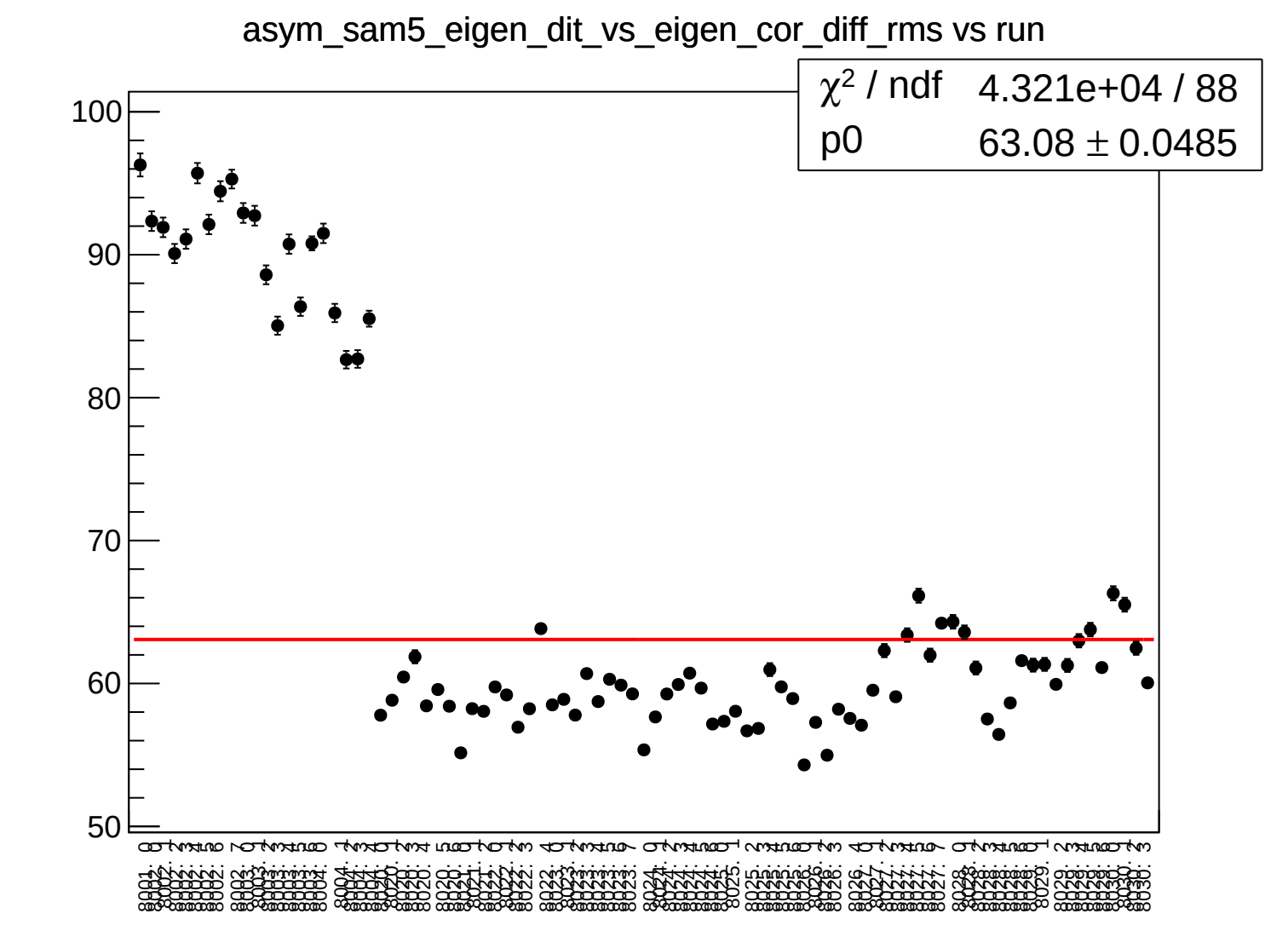

asym_sam5_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 122.9 / 88
p0 0.05895 ± 0.06859
pull
Entries 89
Mean −551.9
Std Dev 0

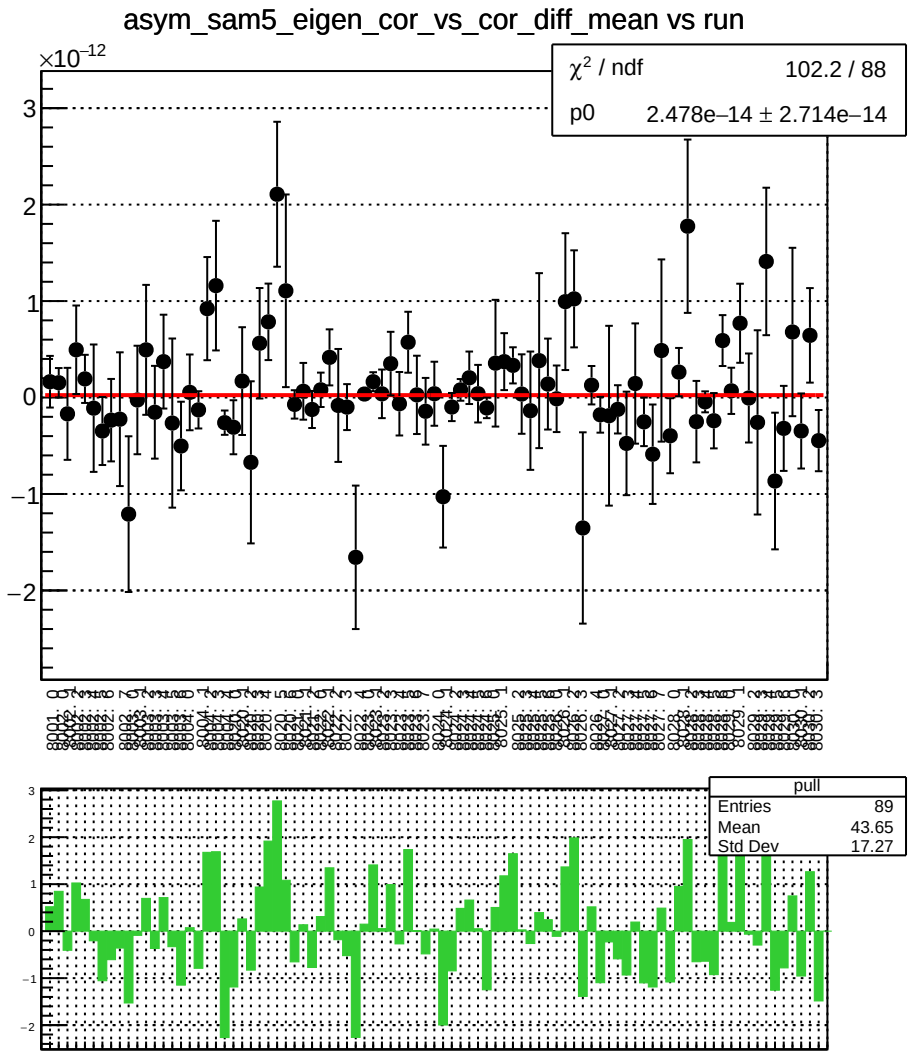

pull1D
Entries 89
Mean −0.00353
Std Dev 1.175

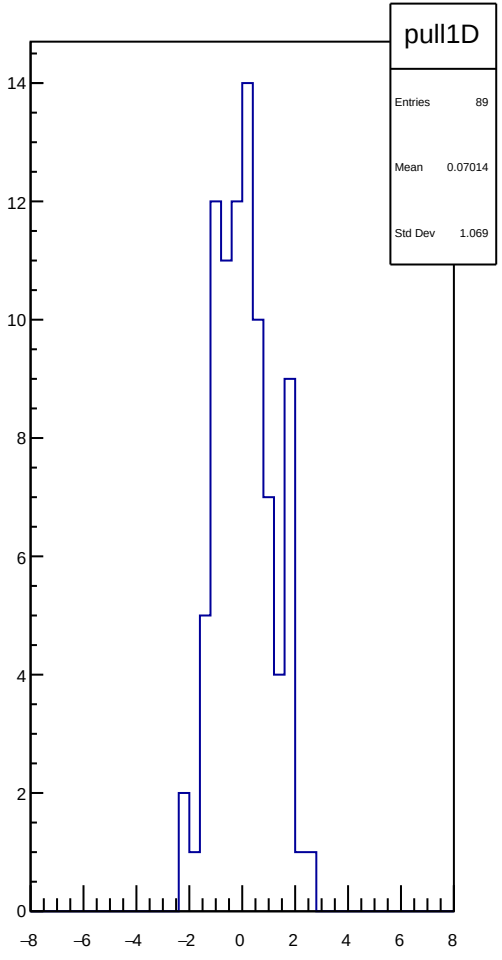

asym_sam5_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.321e+04 / 88
p0 63.08 ± 0.0485
100
90
80
70
60
50

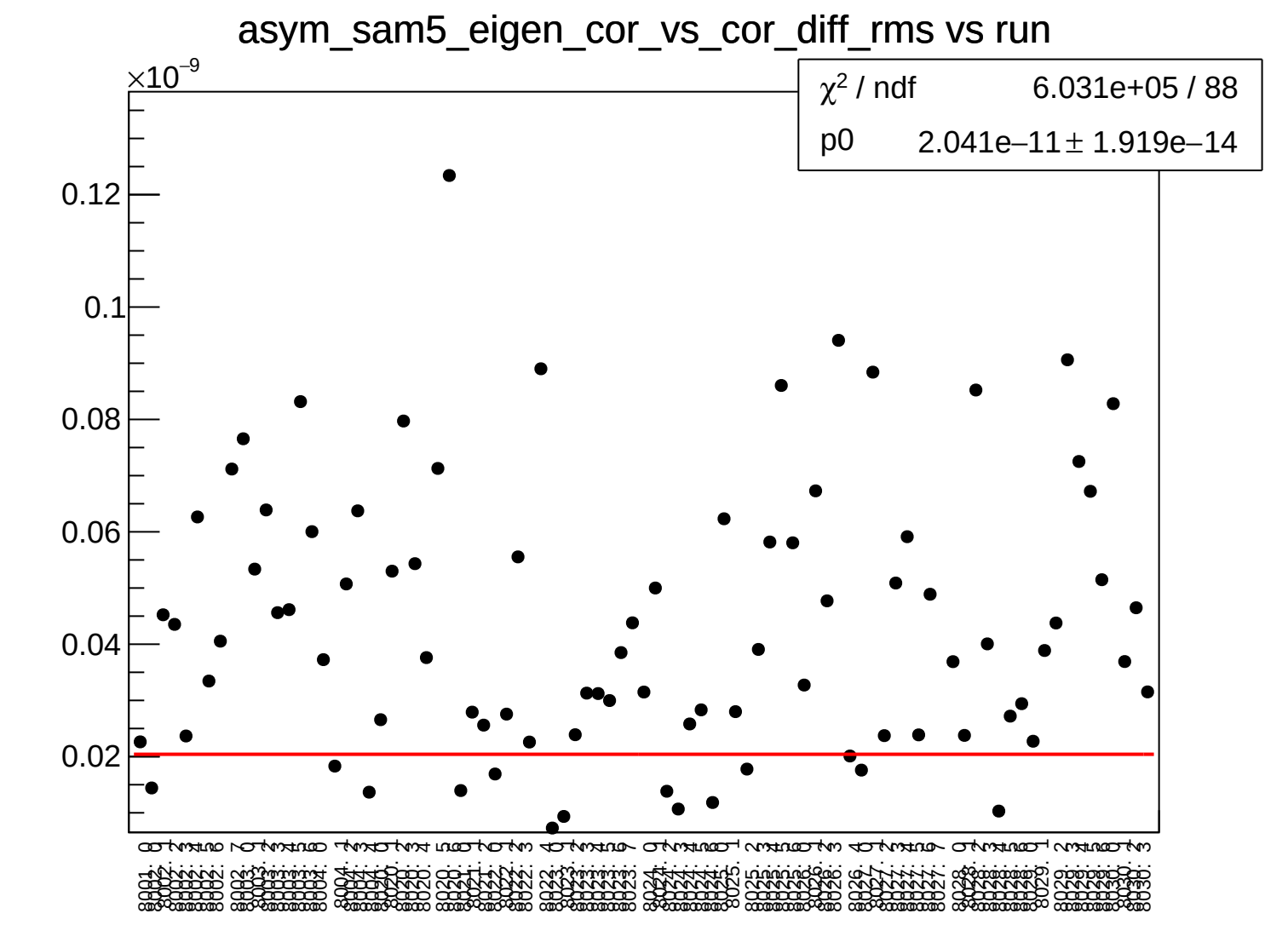

asym_sam5_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 122.9 / 88
p0 0.05895 ± 0.06859
pull
Entries 89
Mean −551.9
Std Dev 0

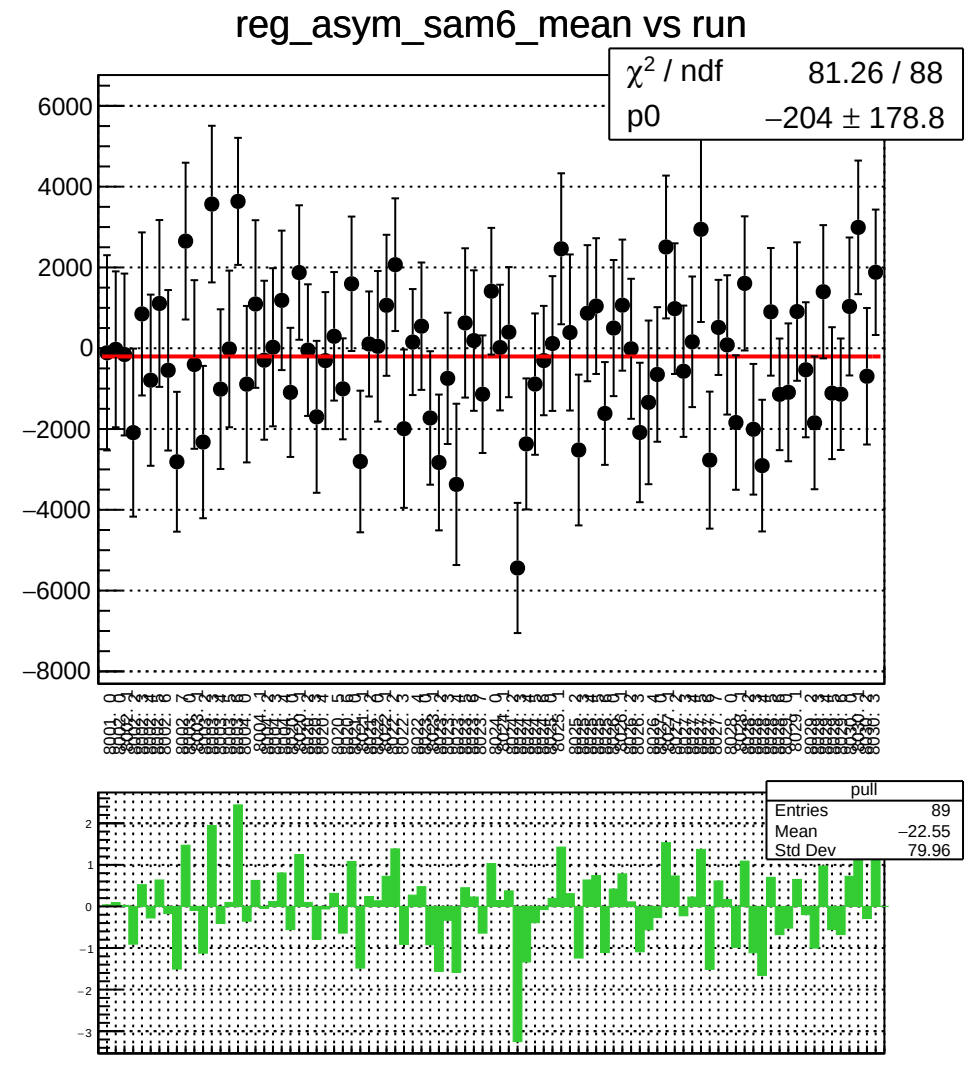

pull1D
Entries 89
Mean −0.00353
Std Dev 1.175

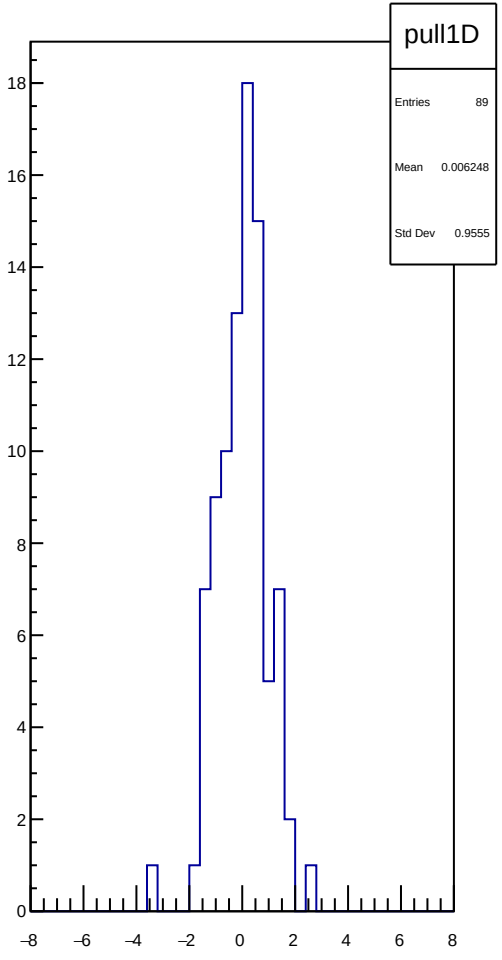

asym_sam5_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.321e+04 / 88
p0 63.08 ± 0.0485
100
90
80
70
60
50

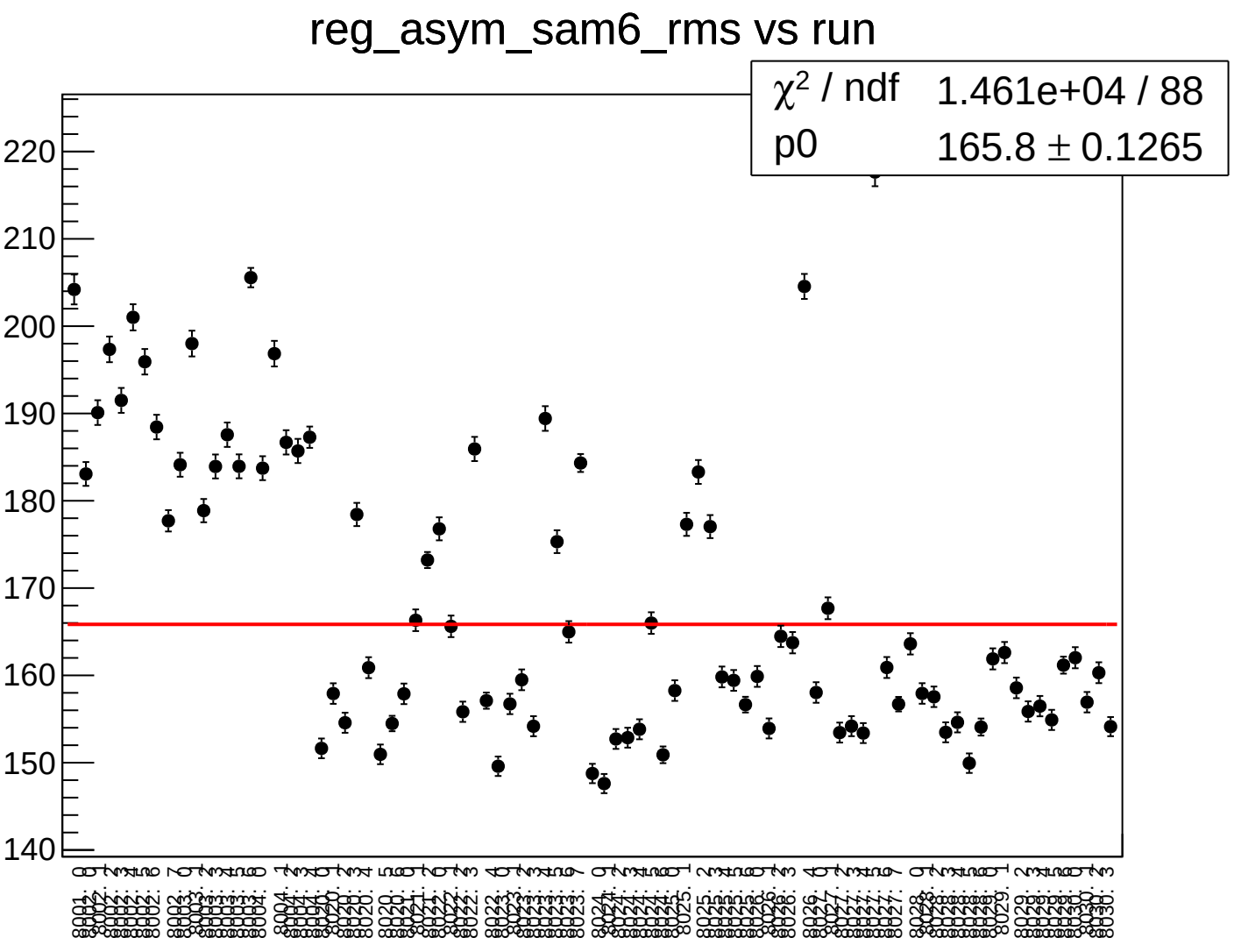

asym_sam5_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 102.2 / 88
p0 2.478e−14 ± 2.714e−14
pull
Entries 89
Mean 43.65
Std Dev 17.27

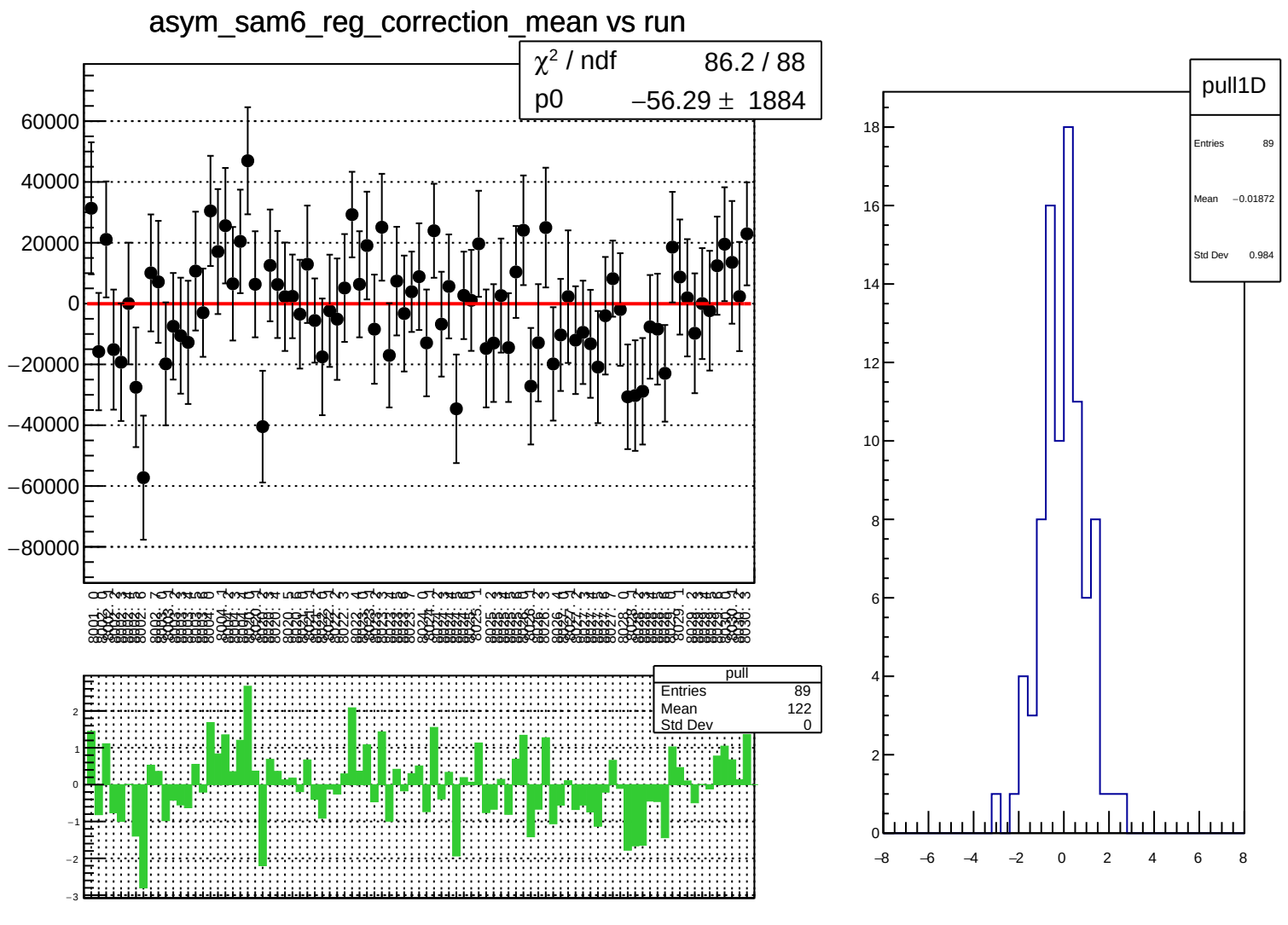

pull1D
Entries 89
Mean 0.07014
Std Dev 1.069

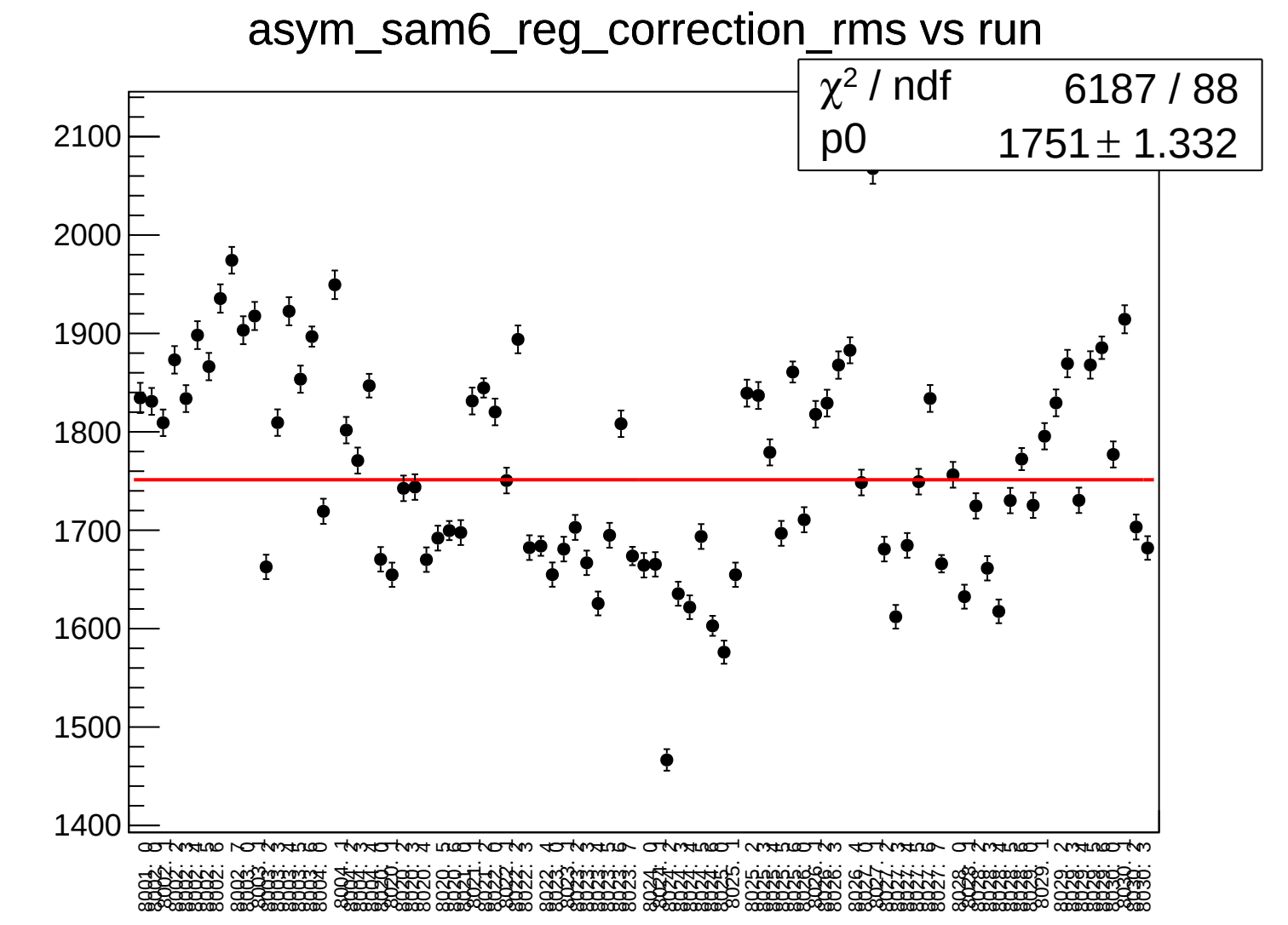

asym_sam5_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.031e+05 / 88
p0 2.041e−11 ± 1.919e−14
0.12
0.1
0.08
0.06
0.04
0.02

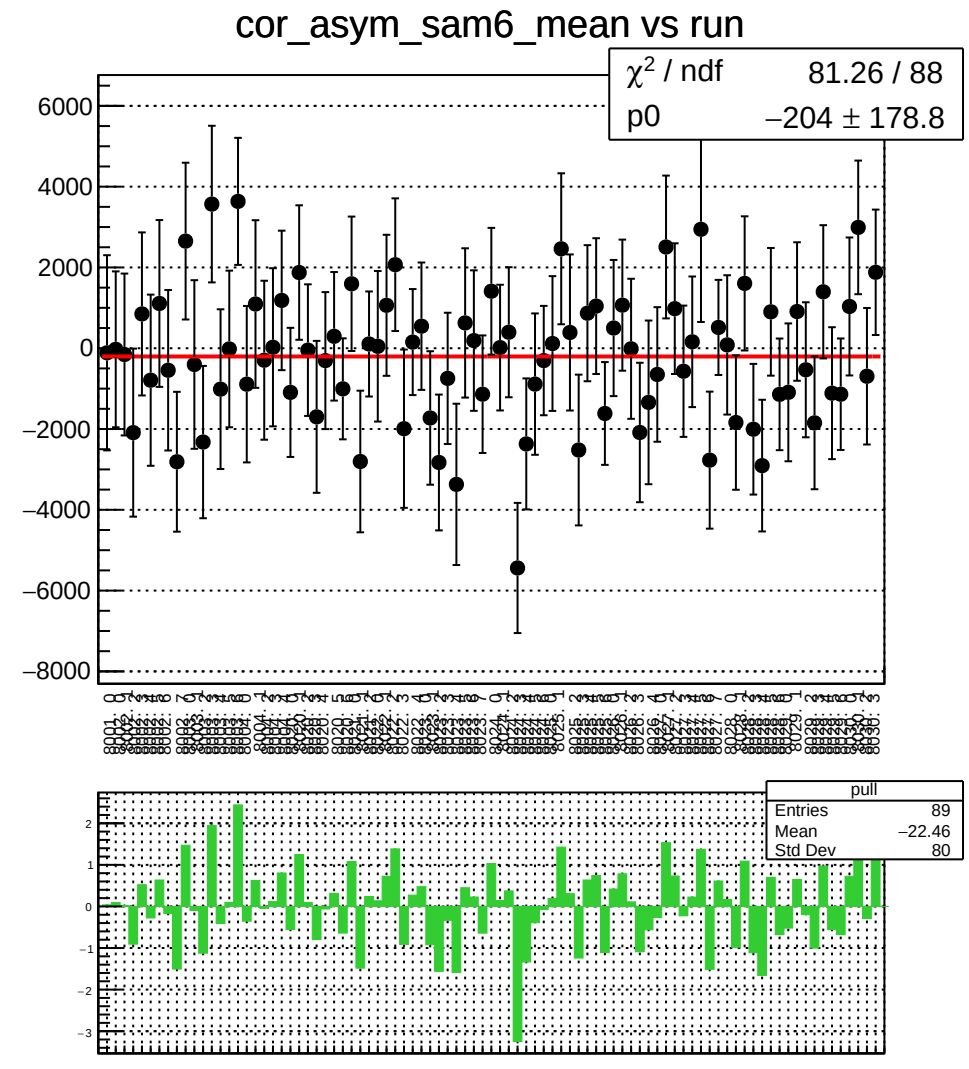

reg_asym_sam6_mean vs run
χ² / ndf 81.26 / 88
p0 −204 ± 178.8
pull
Entries 89
Mean −22.55
Std Dev 79.96

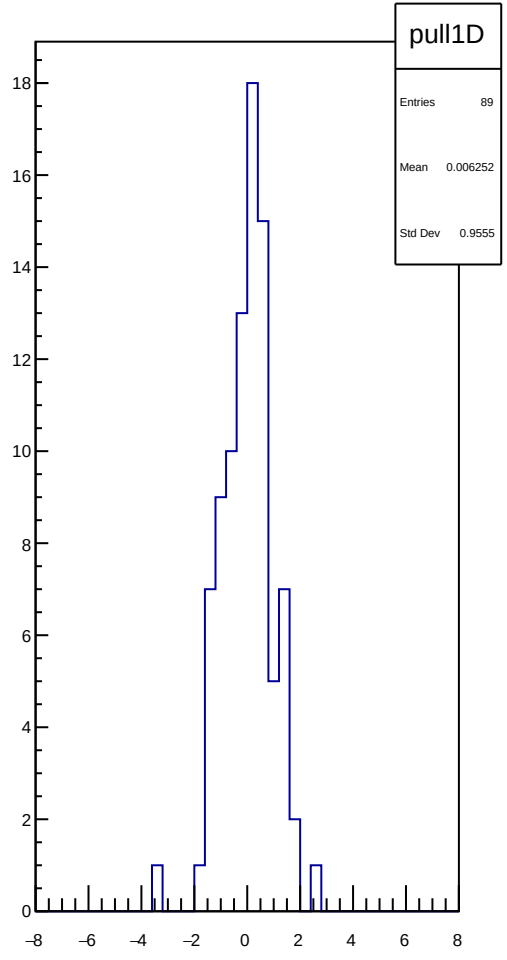

pull1D
Entries 89
Mean 0.006248
Std Dev 0.9555

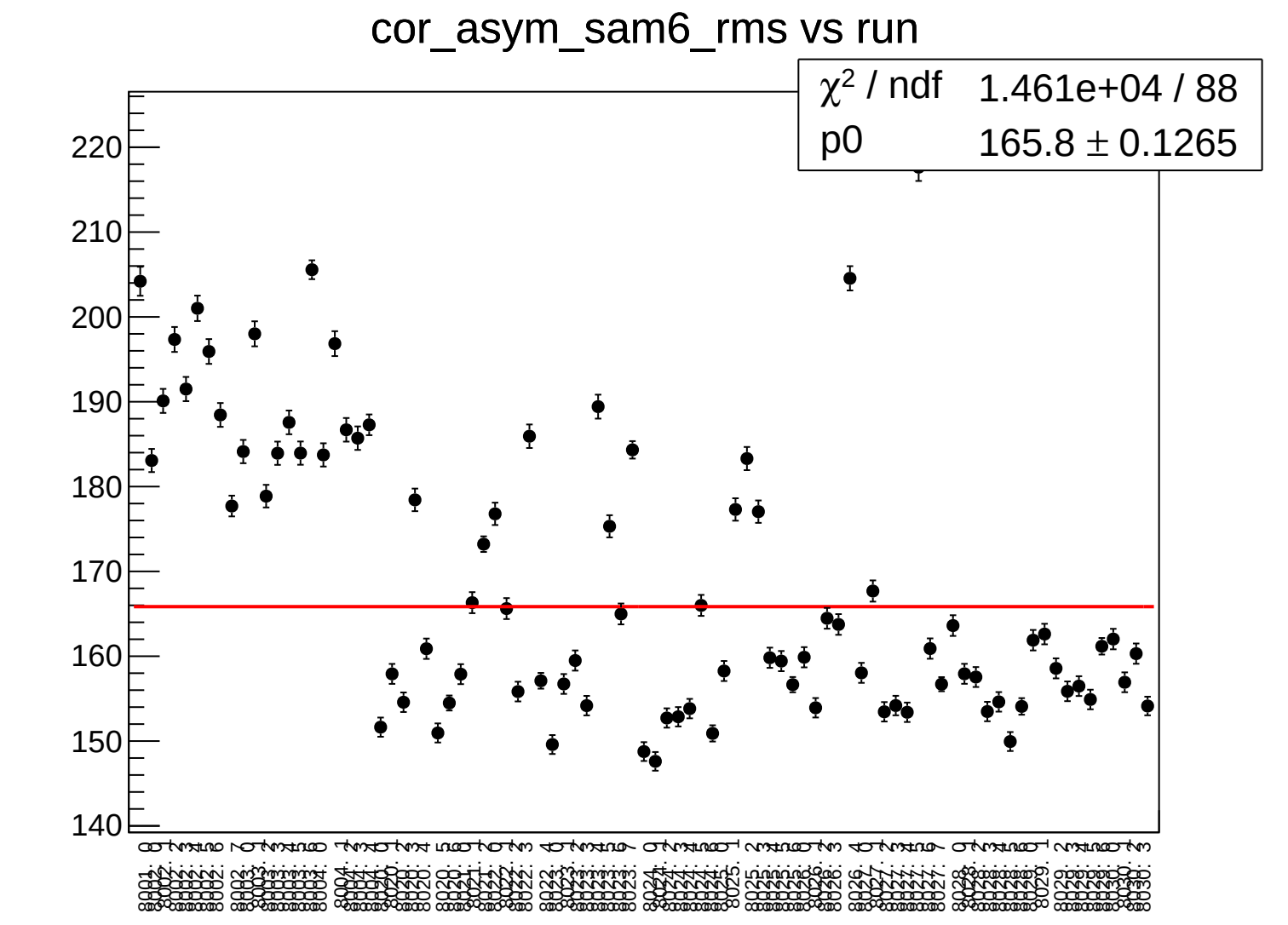

reg_asym_sam6_rms vs run
χ² / ndf 1.461e+04 / 88
p0 165.8 ± 0.1265
220
210
200
190
180
170
160
150
140

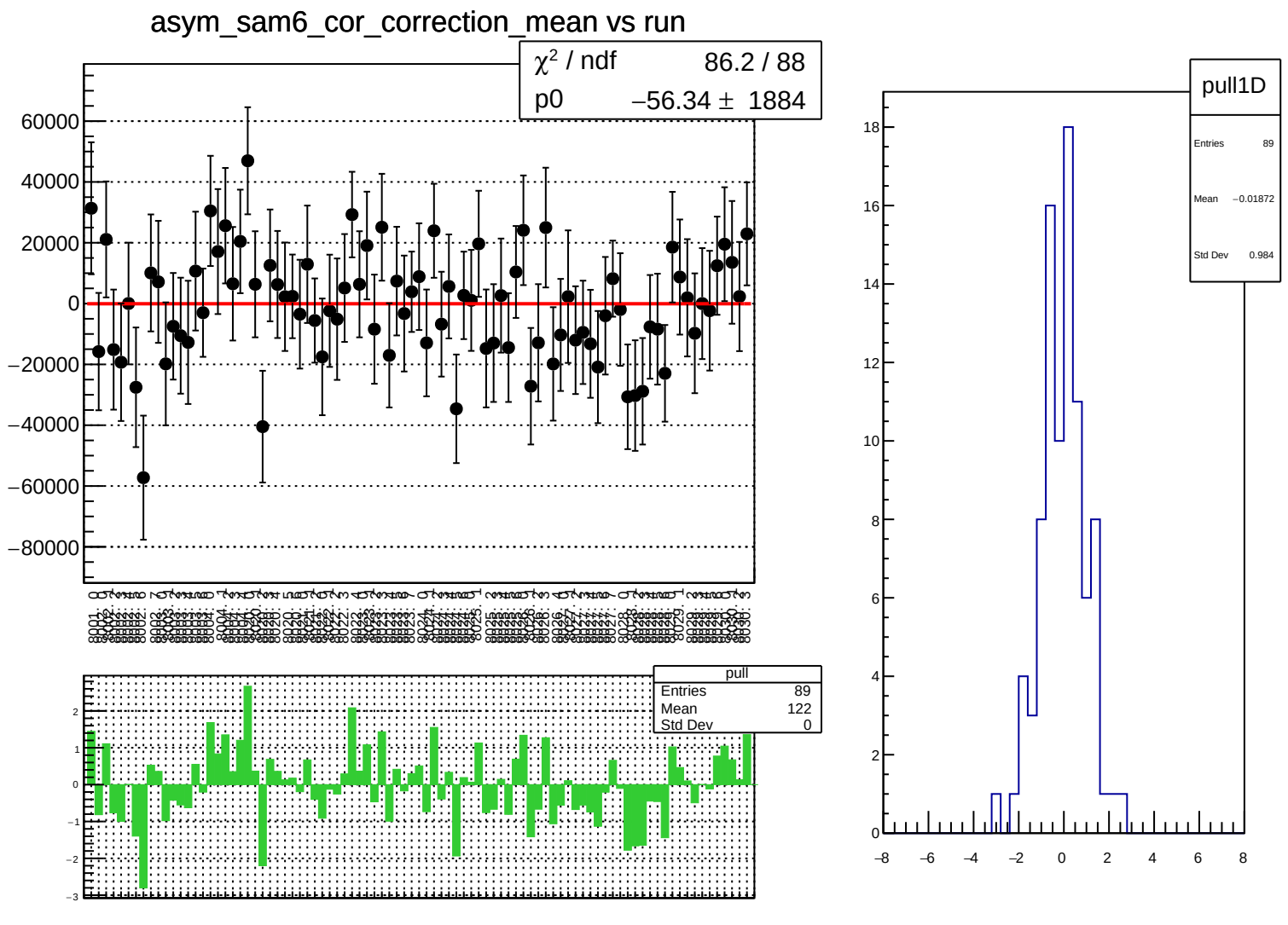

asym_sam6_reg_correction_mean vs run
χ² / ndf 86.2 / 88
p0 −56.29 ± 1884
pull
Entries 89
Mean 122
Std Dev 0
pull1D
Entries 89
Mean −0.01872
Std Dev 0.984

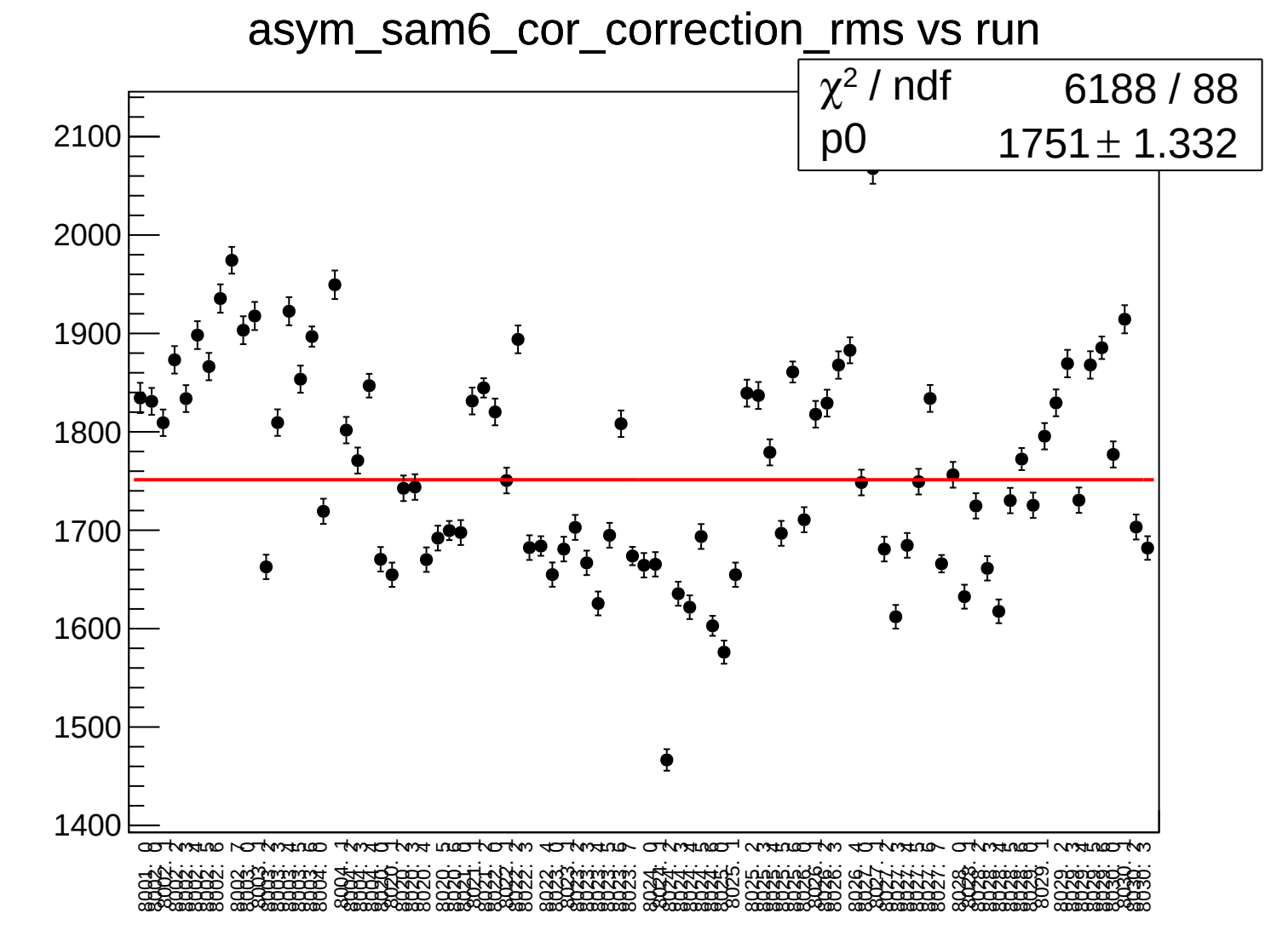

asym_sam6_reg_correction_rms vs run
χ² / ndf 6187 / 88
p0 1751 ± 1.332
2100
2000
1900
1800
1700
1600
1500
1400

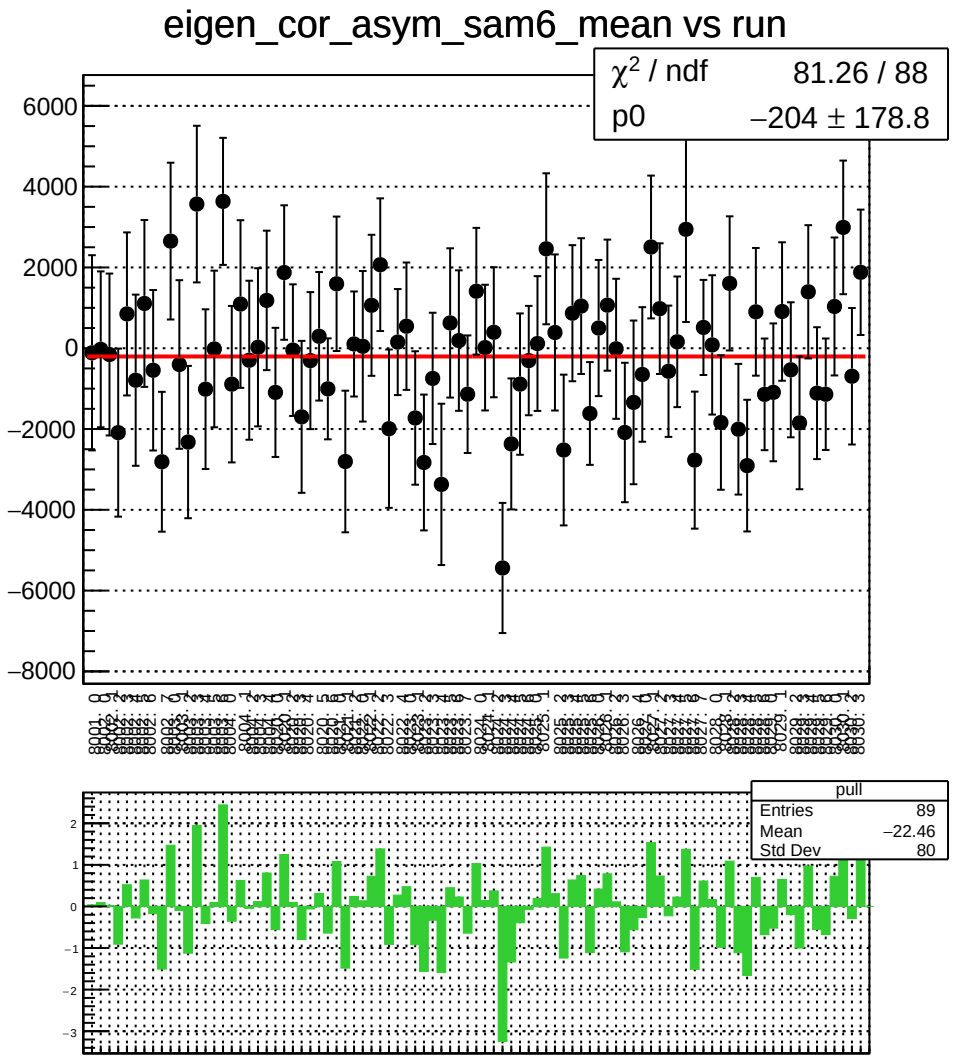

cor_asym_sam6_mean vs run
χ² / ndf 81.26 / 88
p0 −204 ± 178.8
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 89
Mean −22.46
Std Dev 80
2
1
0
−1
−2
−3

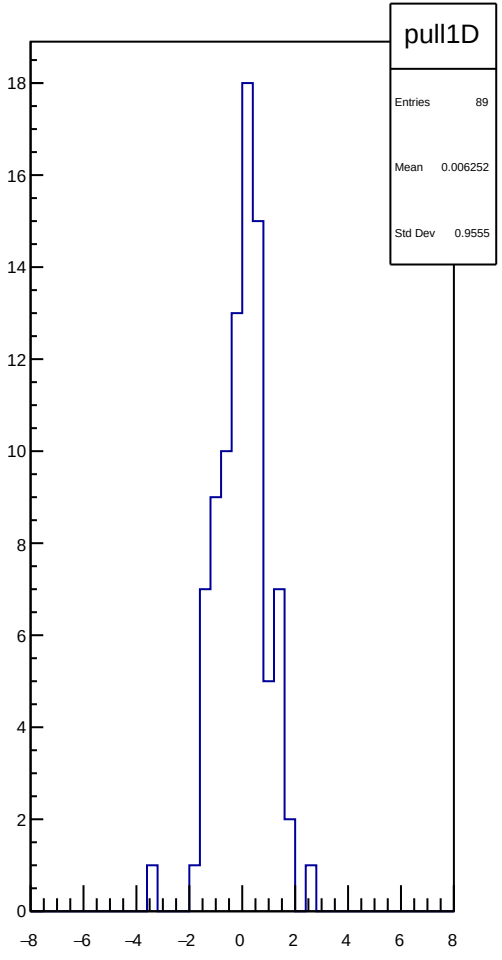

pull1D
Entries 89
Mean 0.006252
Std Dev 0.9555
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

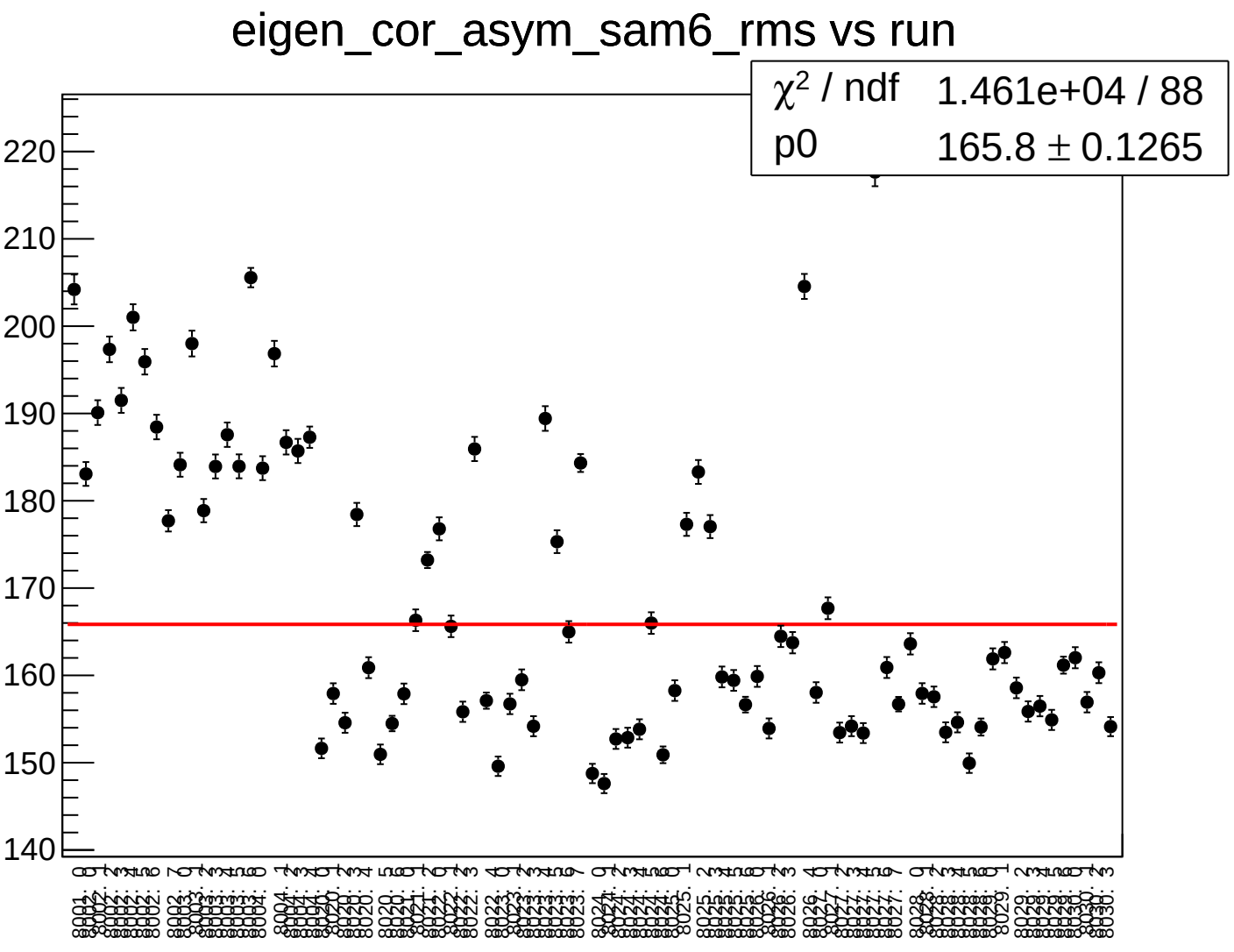

cor_asym_sam6_rms vs run
χ² / ndf 1.461e+04 / 88
p0 165.8 ± 0.1265
220
210
200
190
180
170
160
150
140

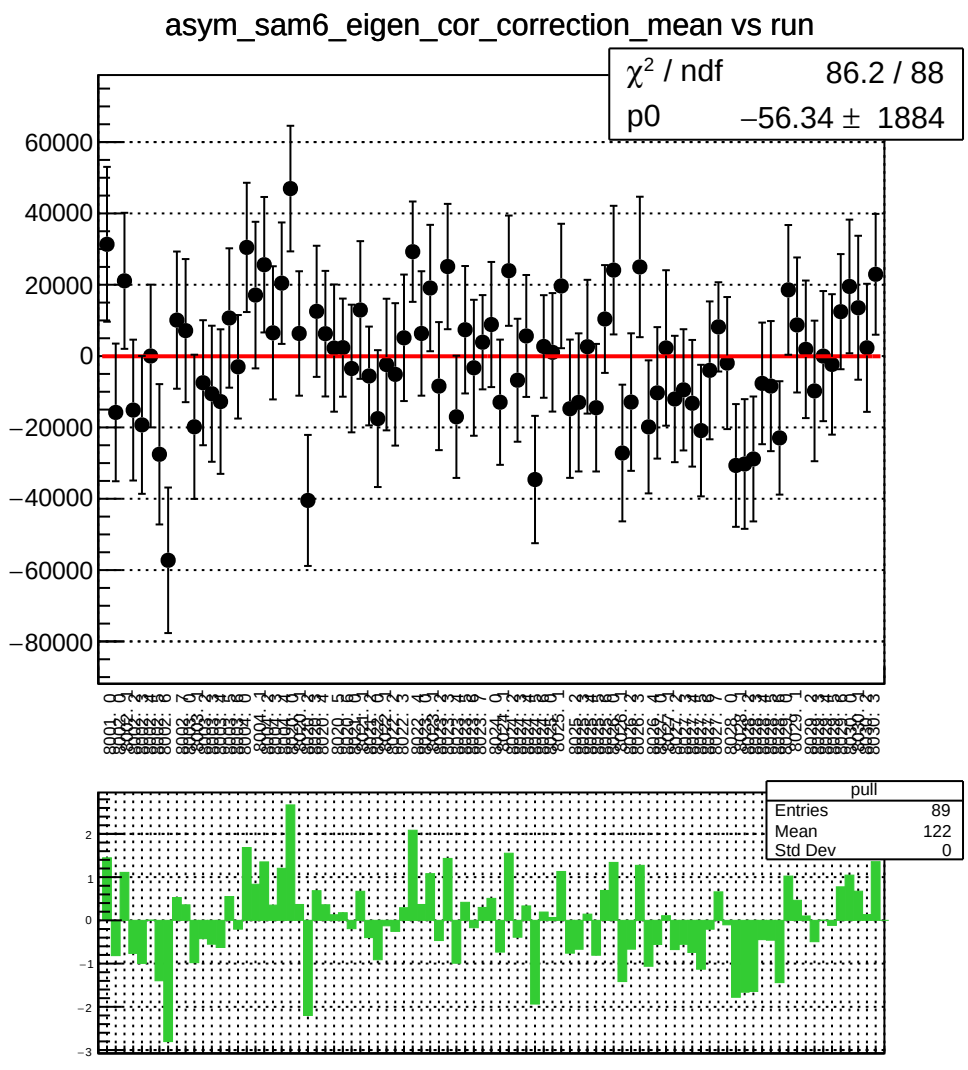

asym_sam6_cor_correction_mean vs run
χ² / ndf 86.2 / 88
p0 −56.34 ± 1884
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean 122
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.01872
Std Dev 0.984
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

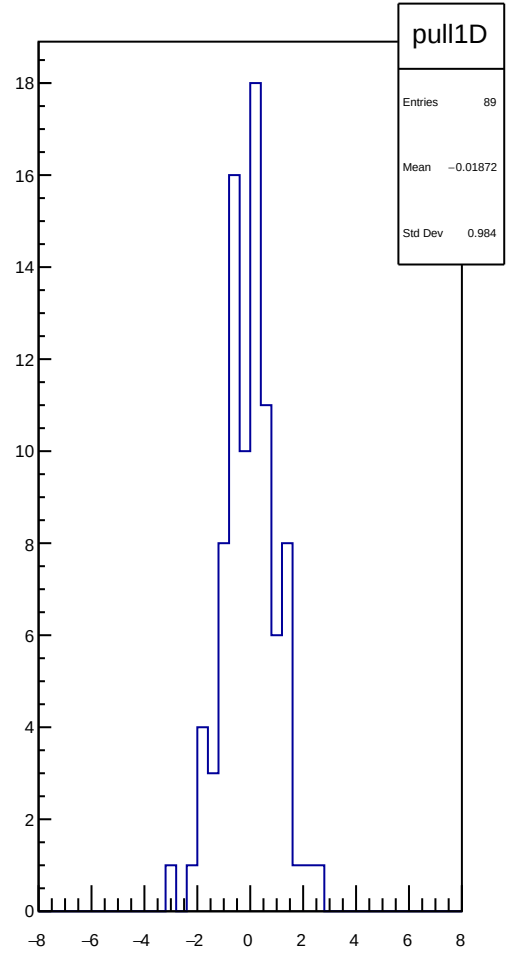

asym_sam6_cor_correction_rms vs run
χ² / ndf 6188 / 88
p0 1751 ± 1.332
2100
2000
1900
1800
1700
1600
1500
1400

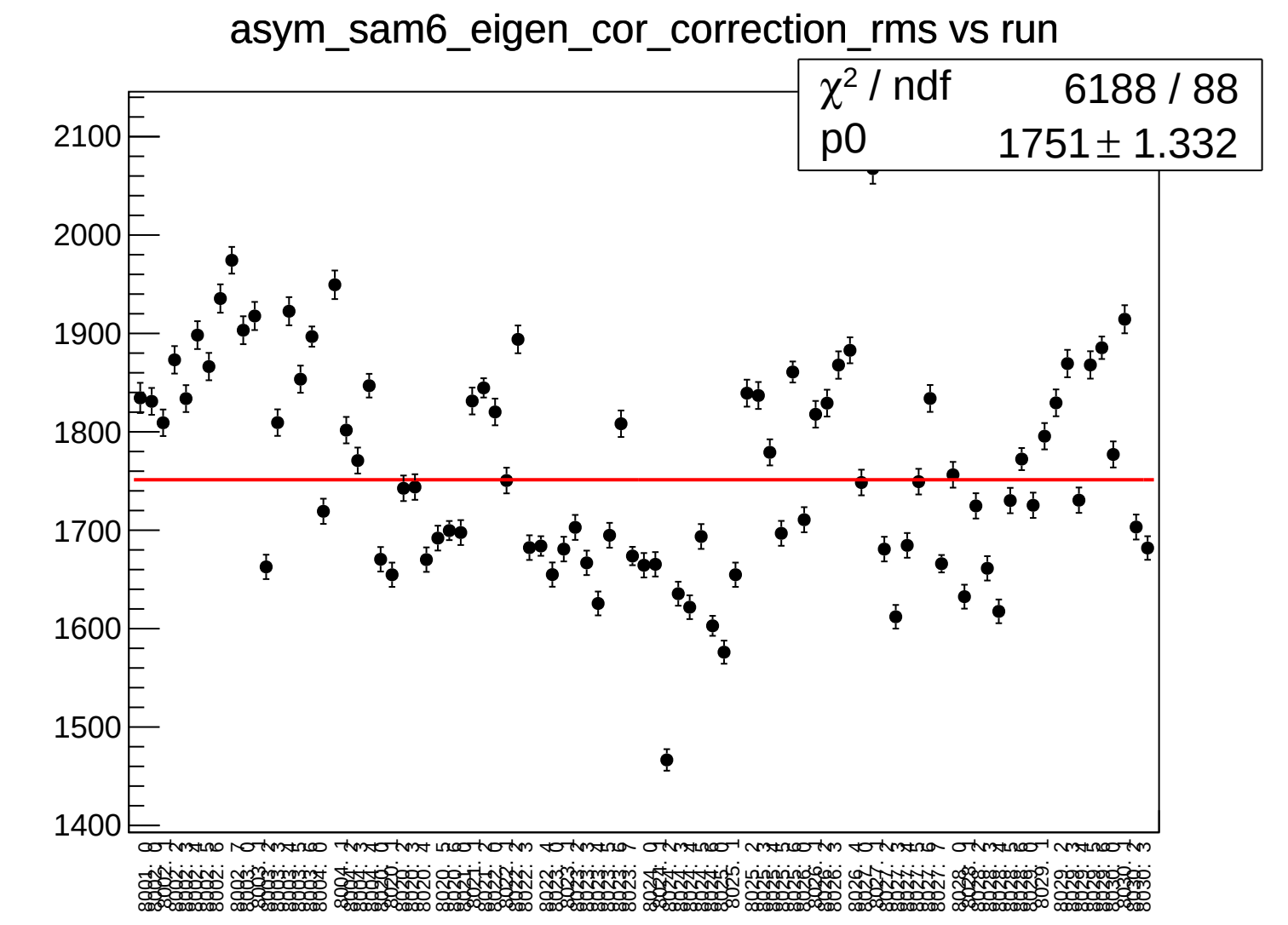

eigen_cor_asym_sam6_mean vs run
χ² / ndf 81.26 / 88
p0 −204 ± 178.8
pull
Entries 89
Mean −22.46
Std Dev 80

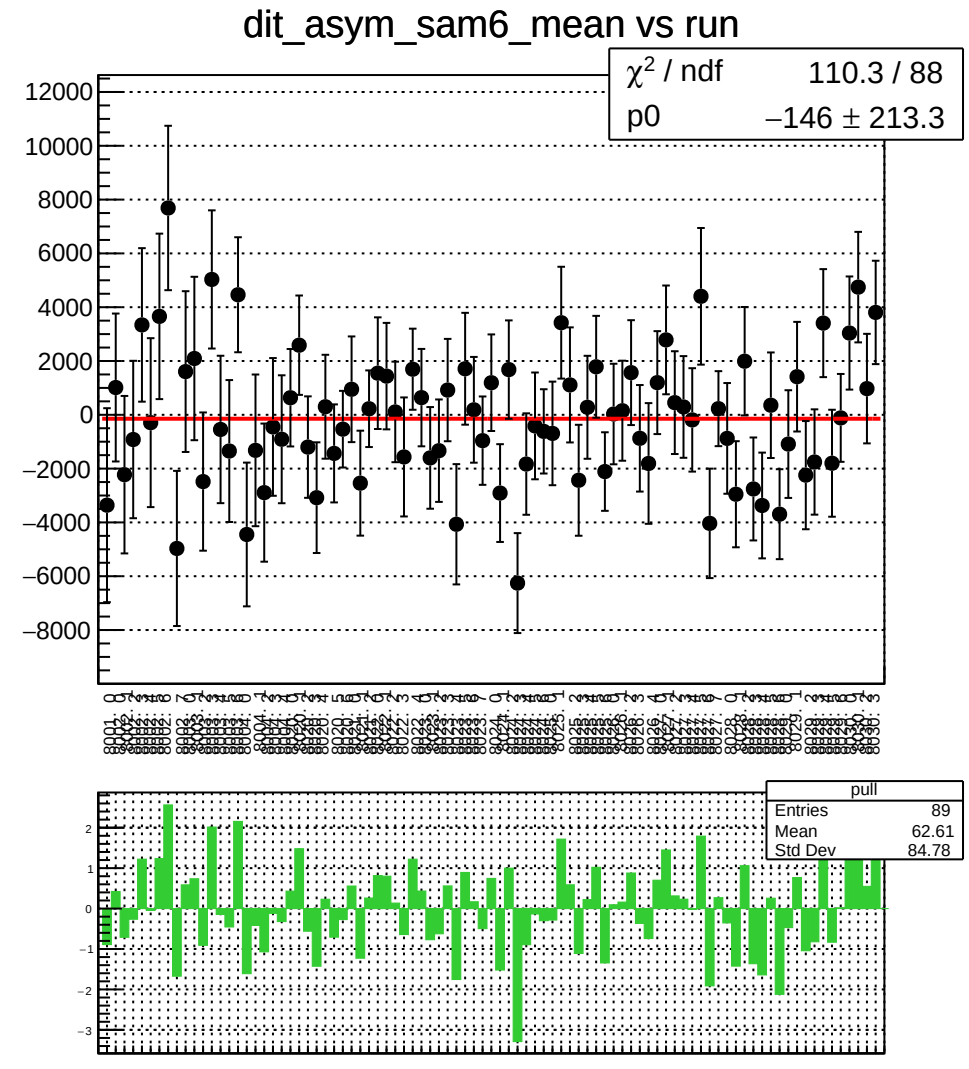

pull1D
Entries 89
Mean 0.006252
Std Dev 0.9555

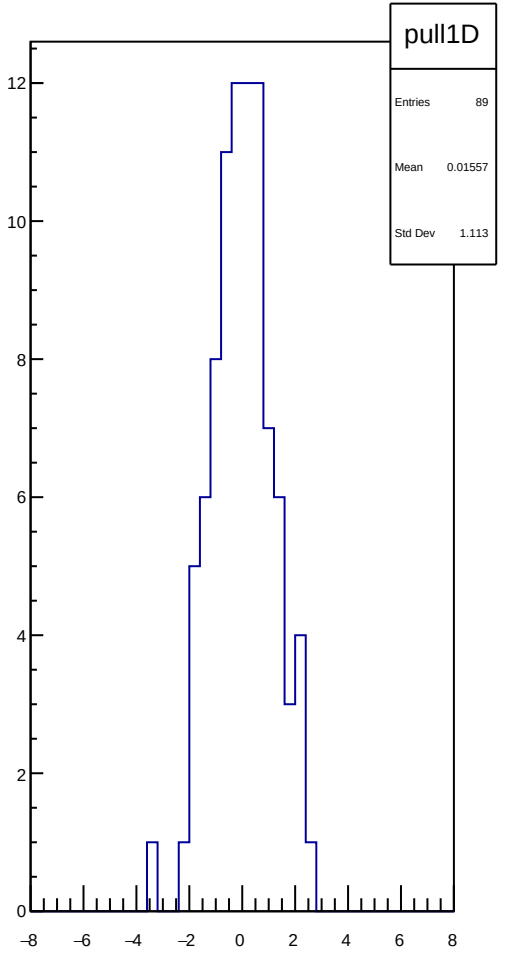

eigen_cor_asym_sam6_rms vs run
χ² / ndf 1.461e+04 / 88
p0 165.8 ± 0.1265
220
210
200
190
180
170
160
150
140

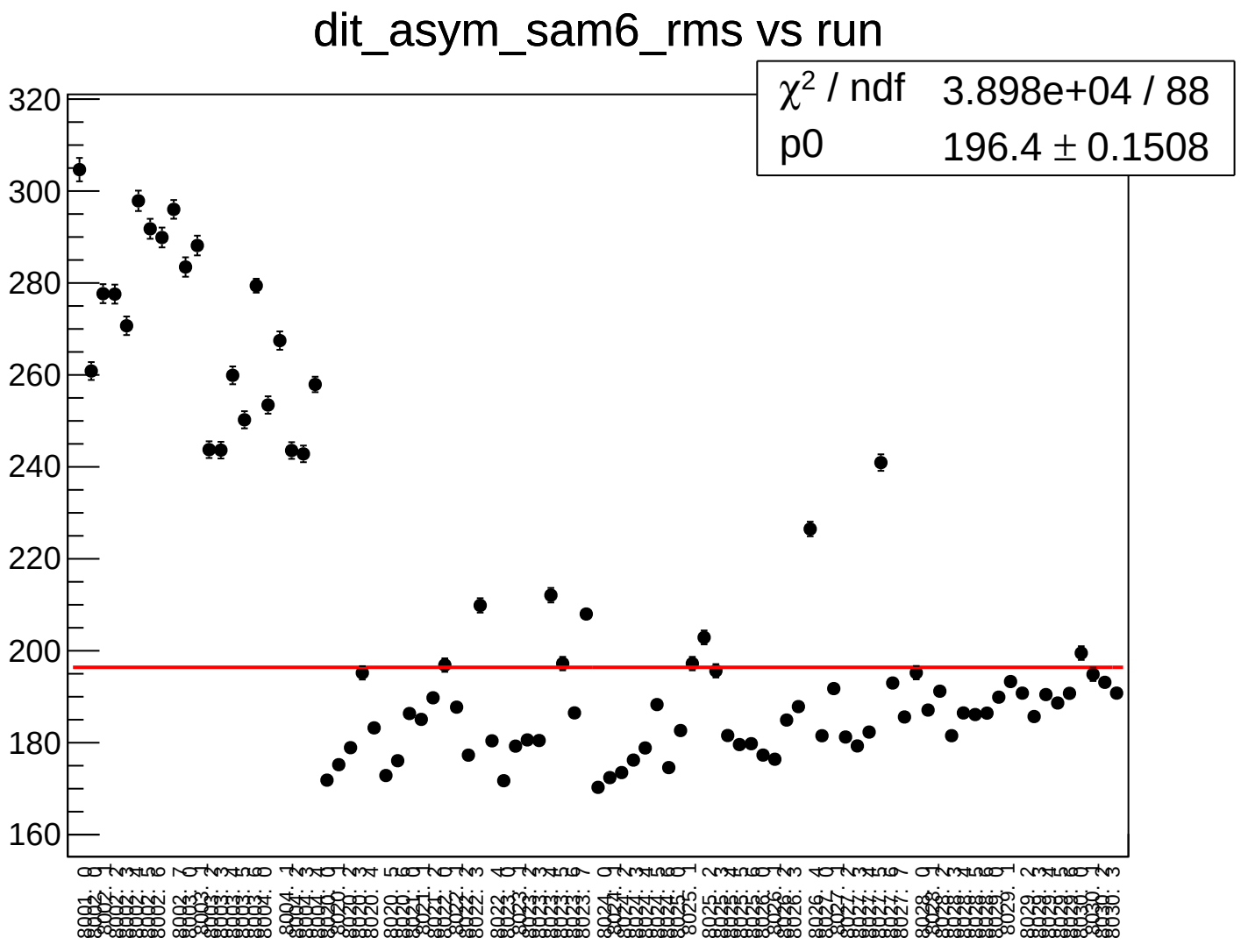

asym_sam6_eigen_cor_correction_mean vs run
χ² / ndf 86.2 / 88
p0 −56.34 ± 1884
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean 122
Std Dev 0
2
1
0
−1
−2
−3

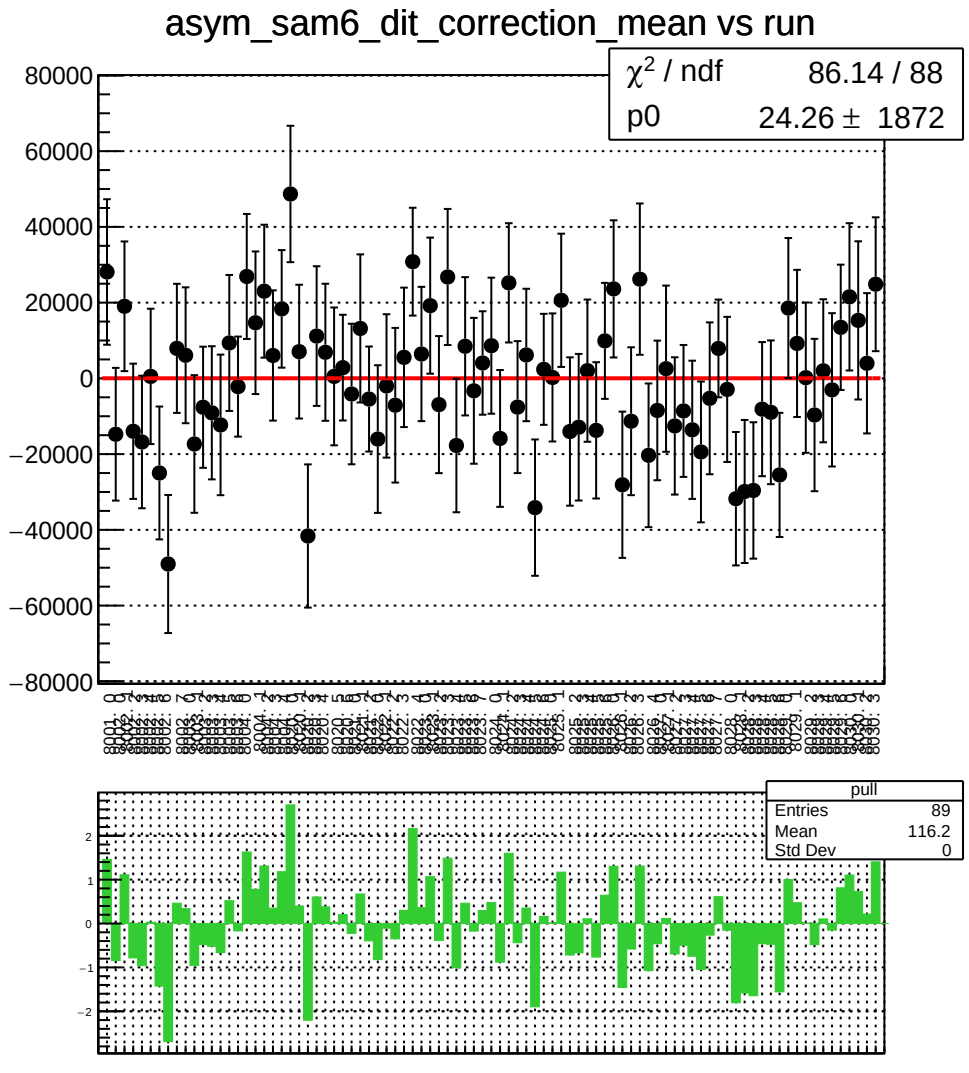

pull1D
Entries 89
Mean −0.01872
Std Dev 0.984
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

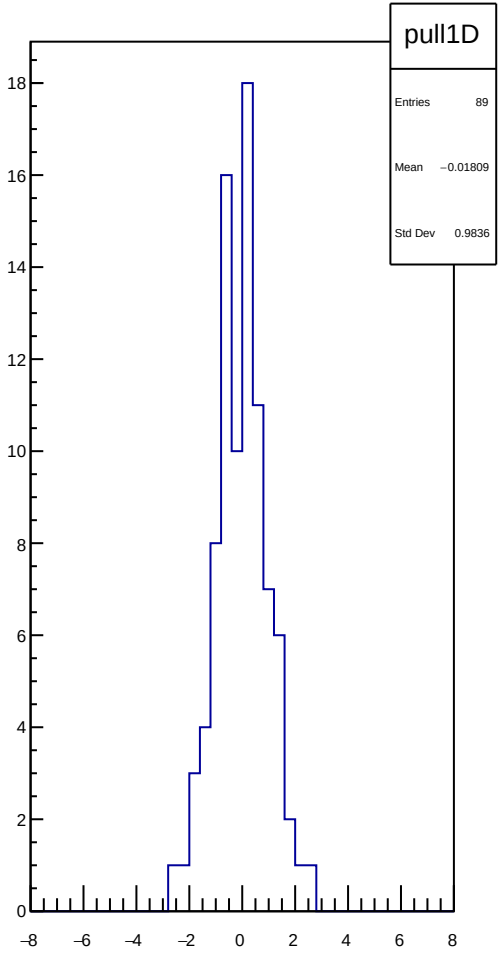

asym_sam6_eigen_cor_correction_rms vs run
χ² / ndf 6188 / 88
p0 1751 ± 1.332
2100
2000
1900
1800
1700
1600
1500
1400

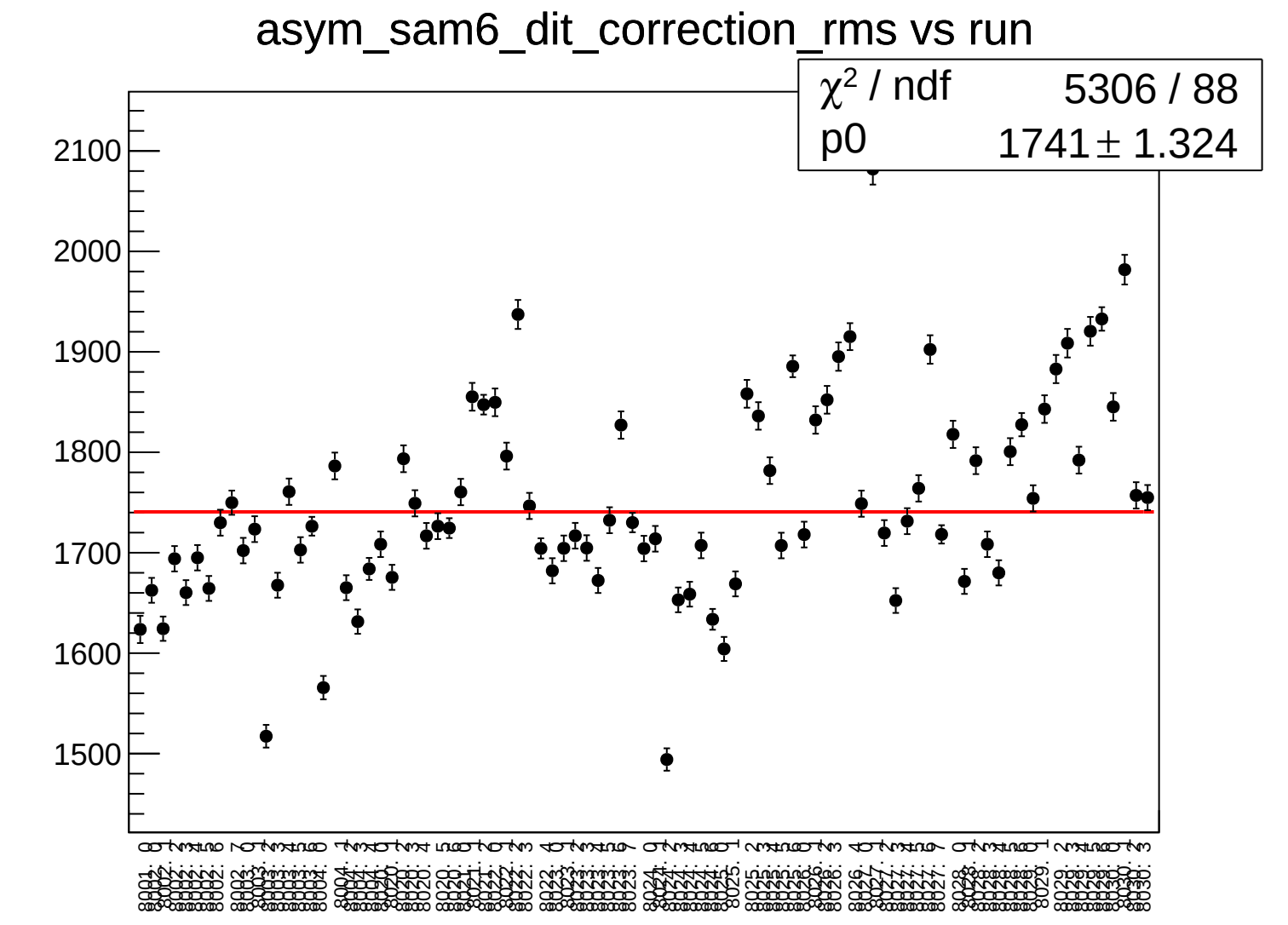

dit_asym_sam6_mean vs run
χ² / ndf 110.3 / 88
p0 −146 ± 213.3
pull
Entries 89
Mean 62.61
Std Dev 84.78

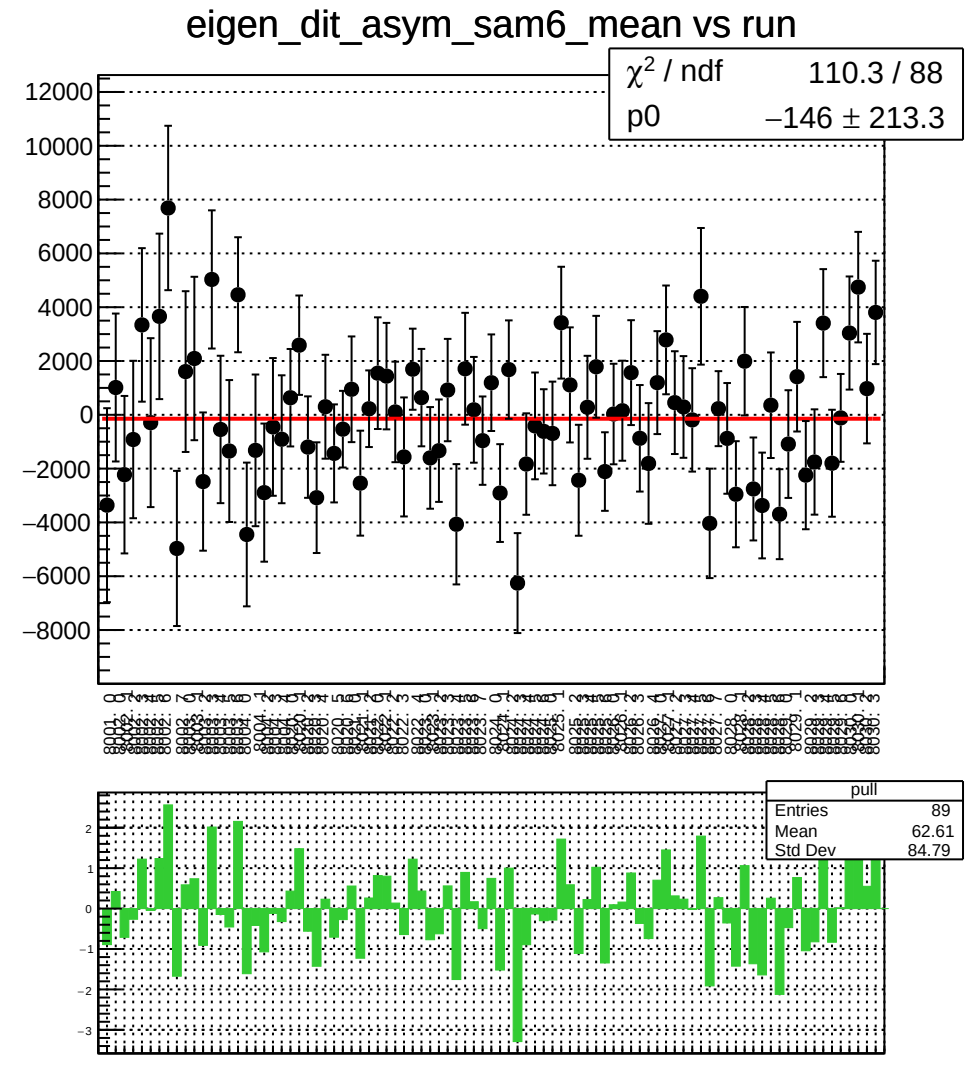

pull1D
Entries 89
Mean 0.01557
Std Dev 1.113

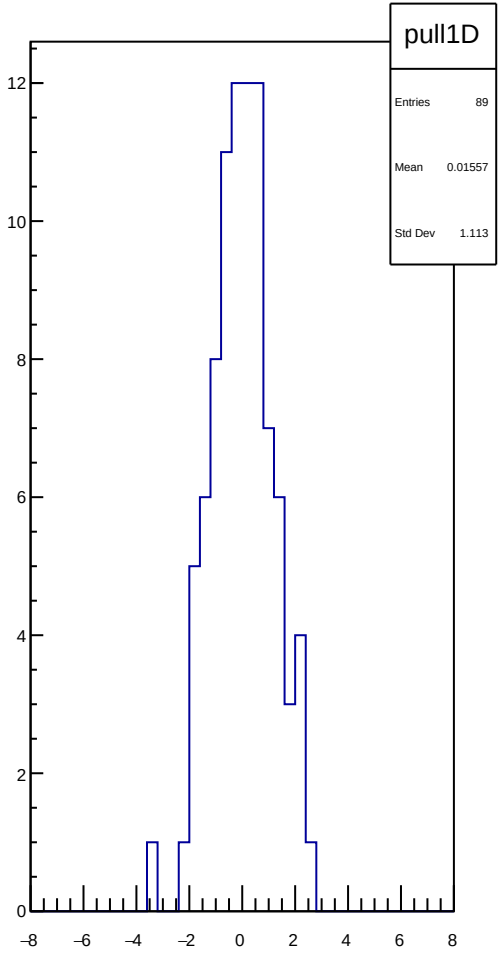

dit_asym_sam6_rms vs run
χ² / ndf 3.898e+04 / 88
p0 196.4 ± 0.1508
320
300
280
260
240
220
200
180
160

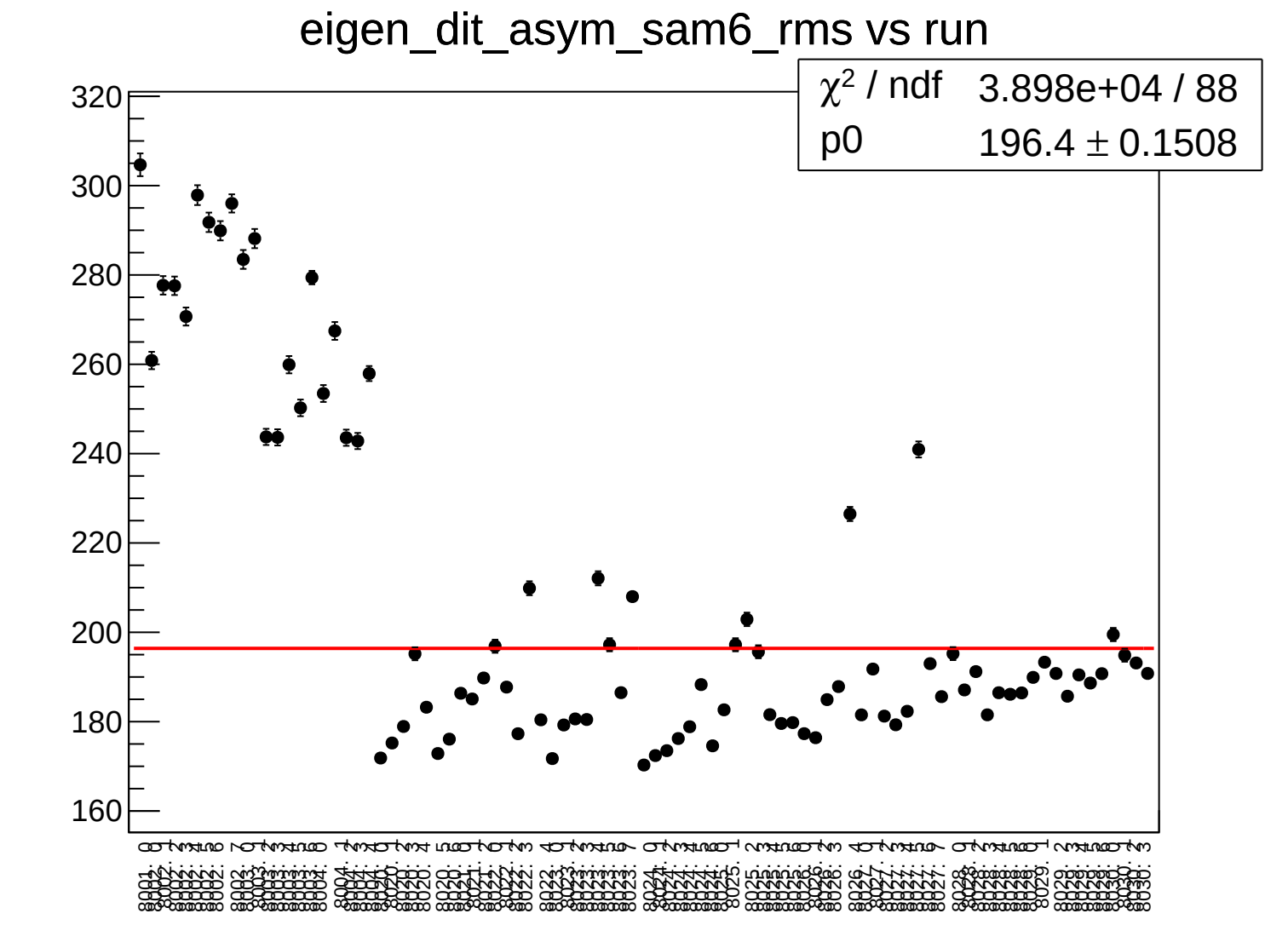

asym_sam6_dit_correction_mean vs run
χ² / ndf 86.14 / 88
p0 24.26 ± 1872
pull
Entries 89
Mean 116.2
Std Dev 0

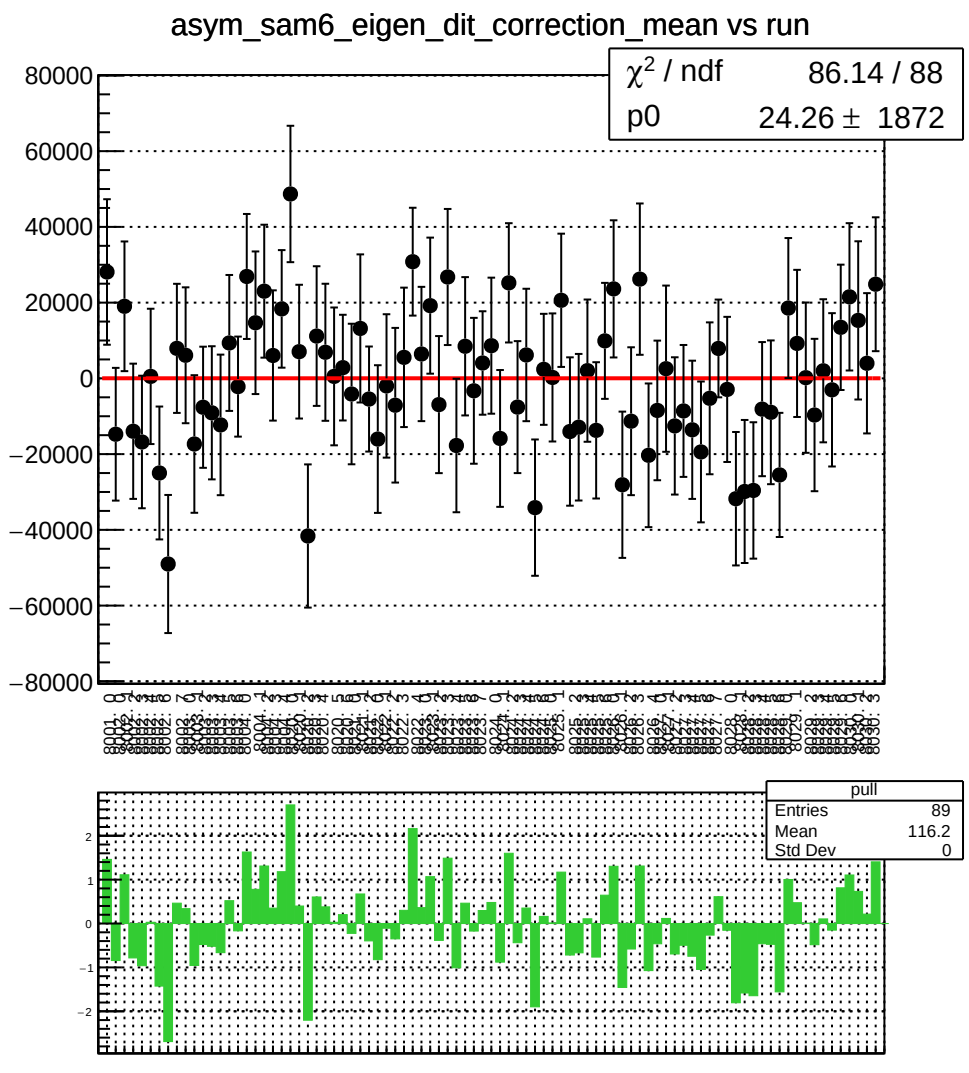

pull1D
Entries 89
Mean −0.01809
Std Dev 0.9836

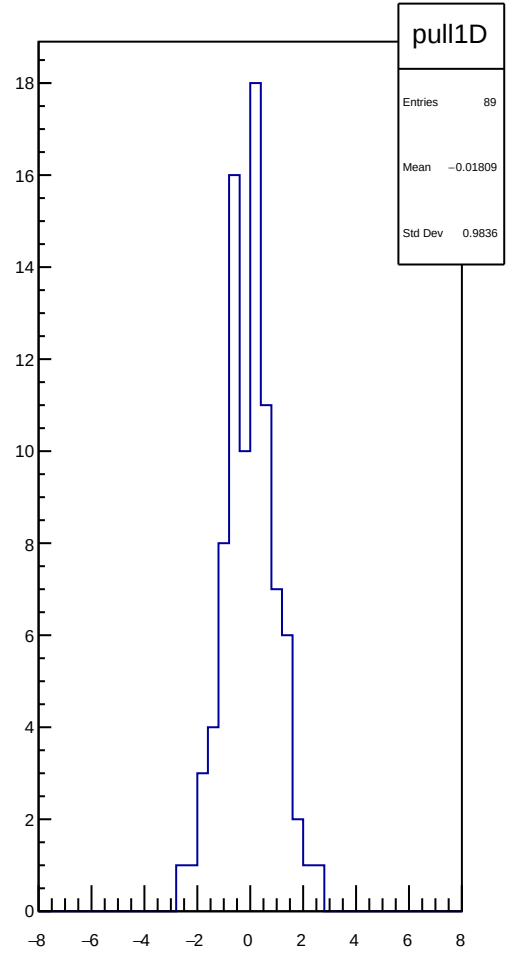

asym_sam6_dit_correction_rms vs run
χ² / ndf 5306 / 88
p0 1741 ± 1.324
2100
2000
1900
1800
1700
1600
1500

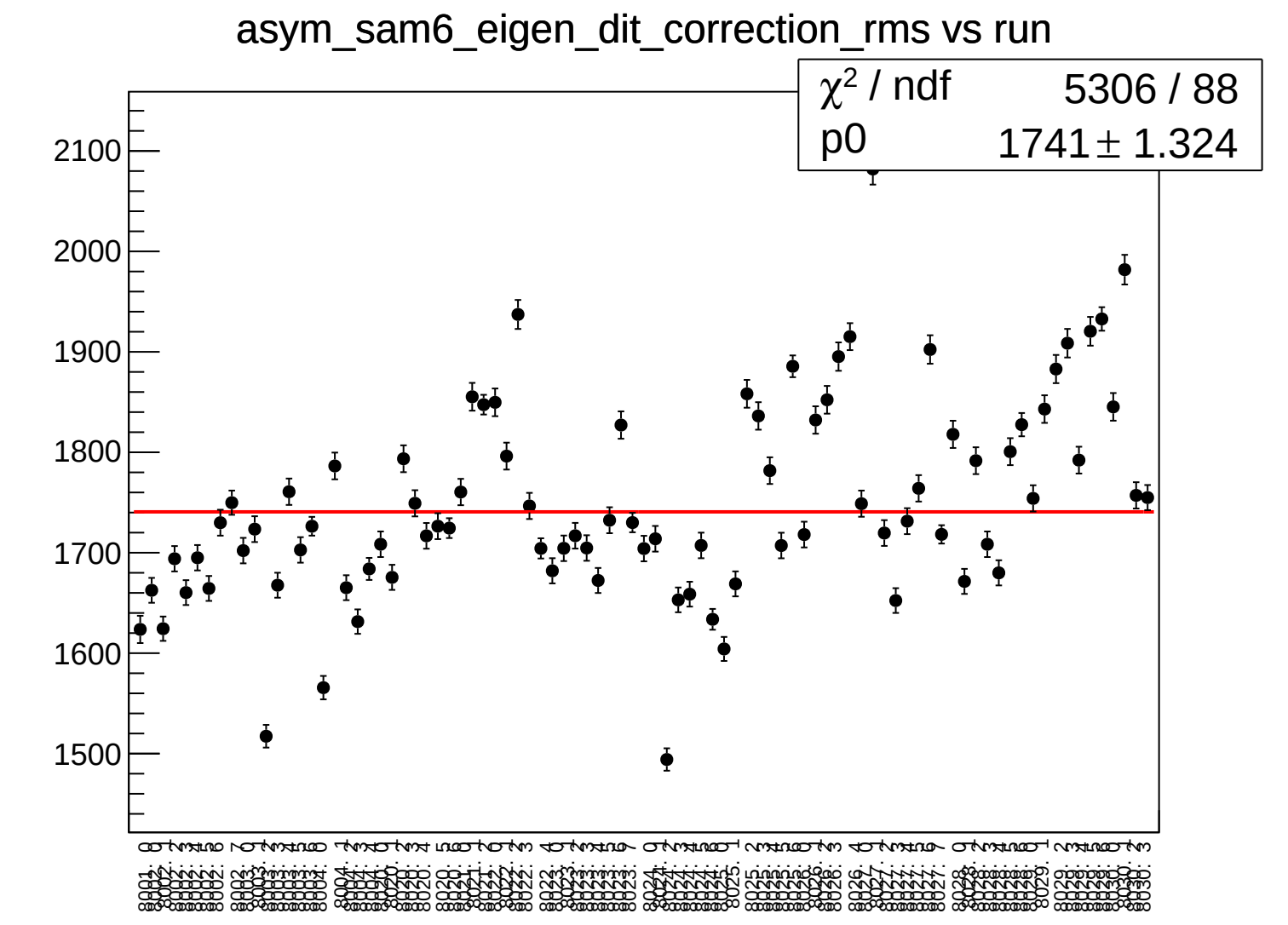

eigen_dit_asym_sam6_mean vs run
χ² / ndf 110.3 / 88
p0 −146 ± 213.3
pull
Entries 89
Mean 62.61
Std Dev 84.79

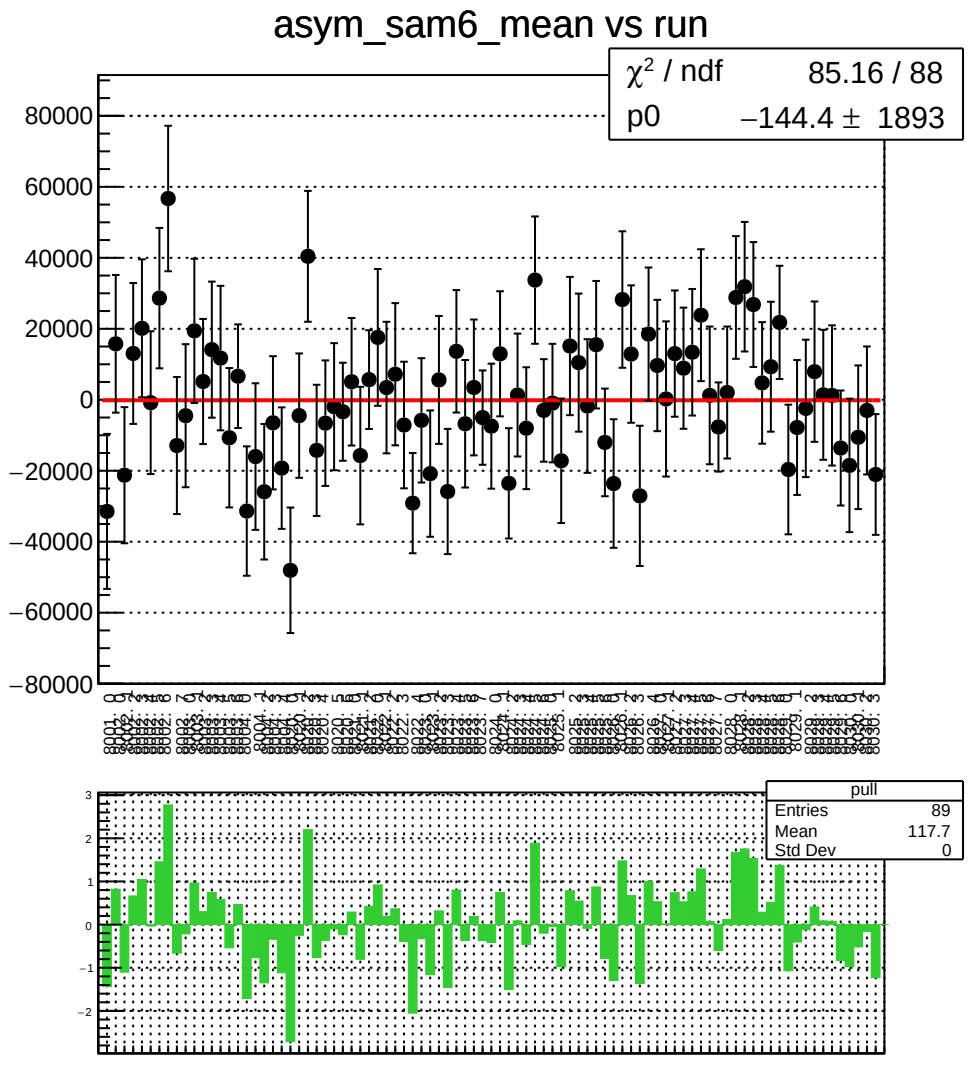

pull1D
Entries 89
Mean 0.01557
Std Dev 1.113

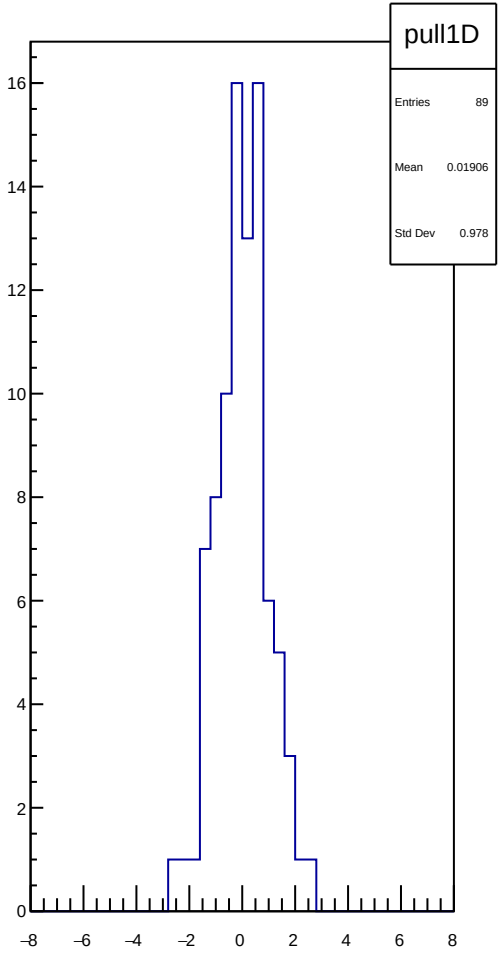

eigen_dit_asym_sam6_rms vs run
χ² / ndf 3.898e+04 / 88
p0 196.4 ± 0.1508
320
300
280
260
240
220
200
180
160

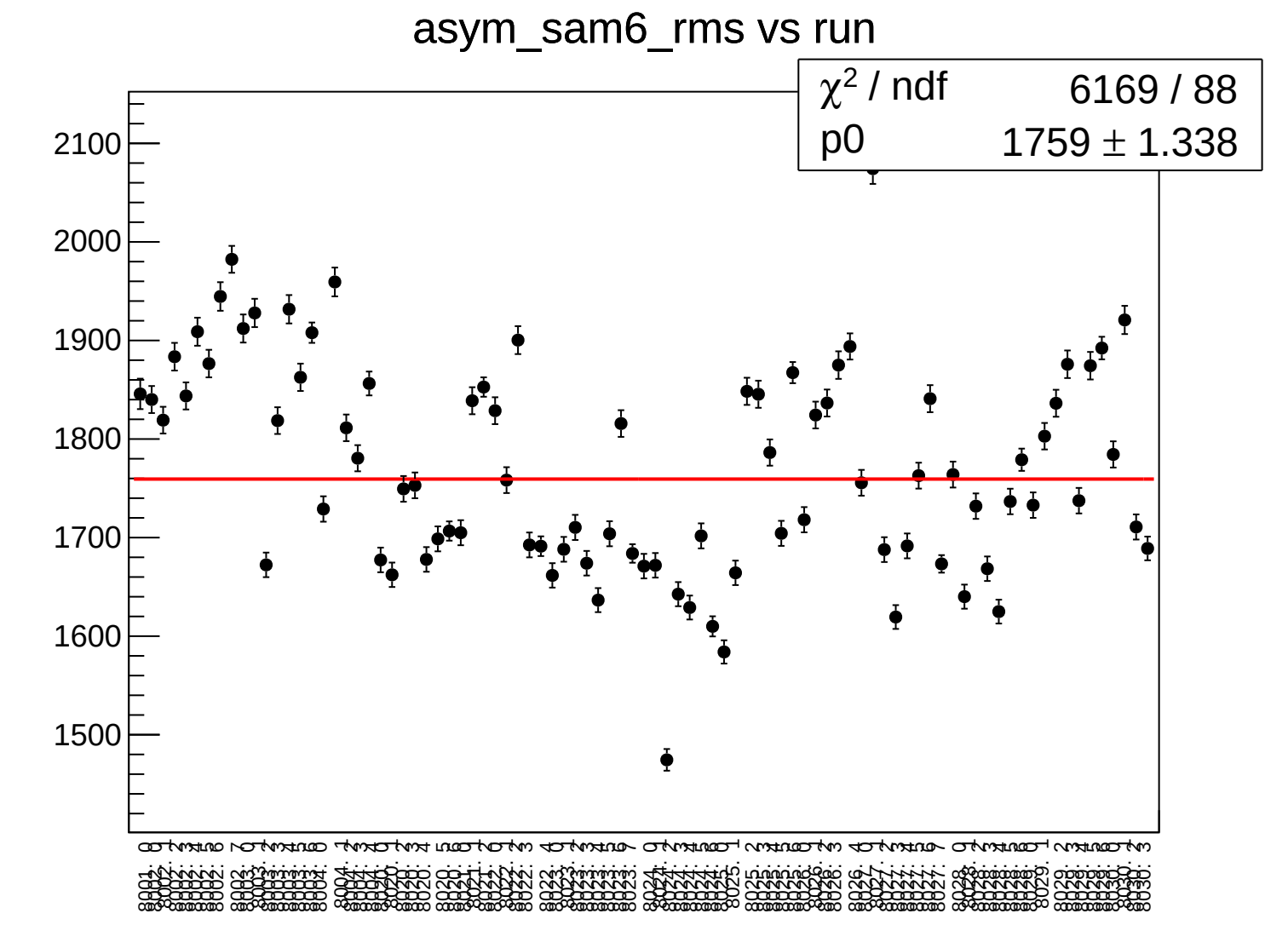

asym_sam6_eigen_dit_correction_mean vs run
χ² / ndf 86.14 / 88
p0 24.26 ± 1872
pull
Entries 89
Mean 116.2
Std Dev 0

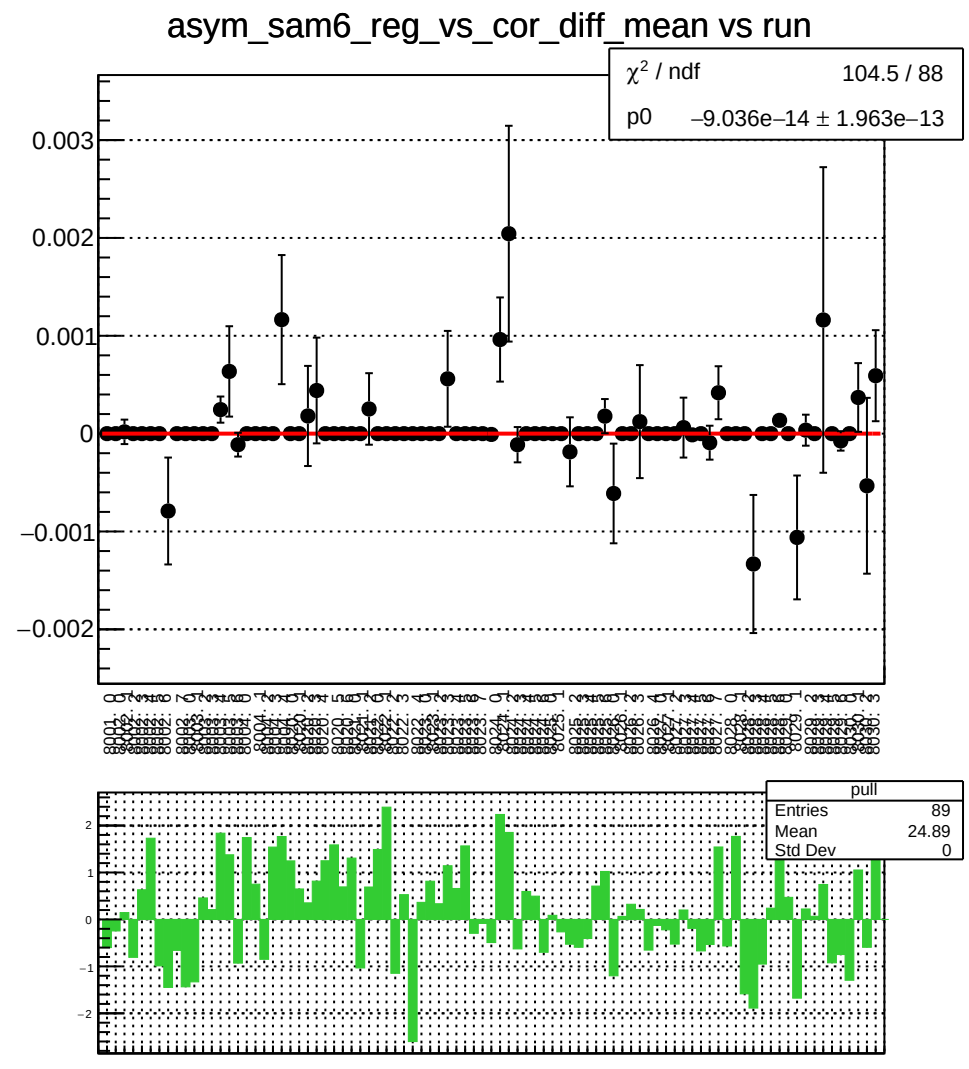

pull1D
Entries 89
Mean −0.01809
Std Dev 0.9836

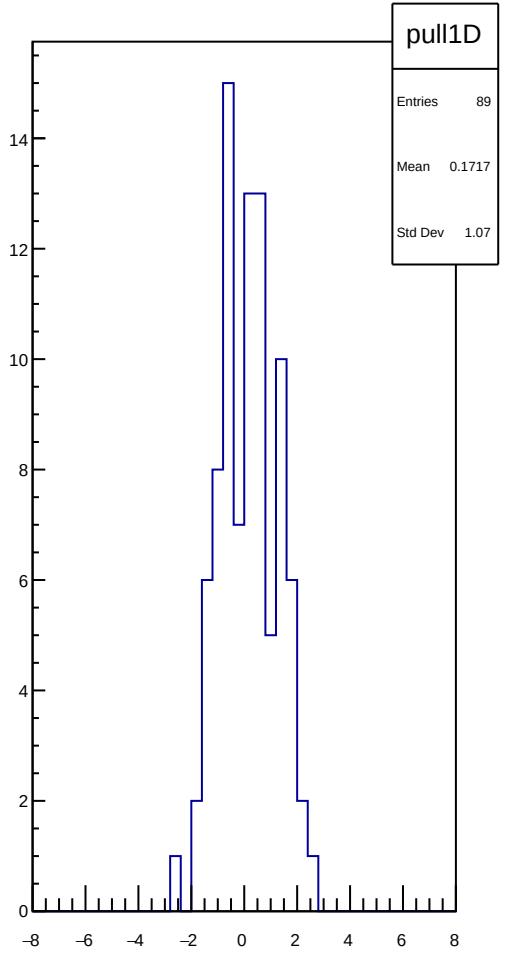

asym_sam6_eigen_dit_correction_rms vs run
χ² / ndf 5306 / 88
p0 1741 ± 1.324
2100
2000
1900
1800
1700
1600
1500

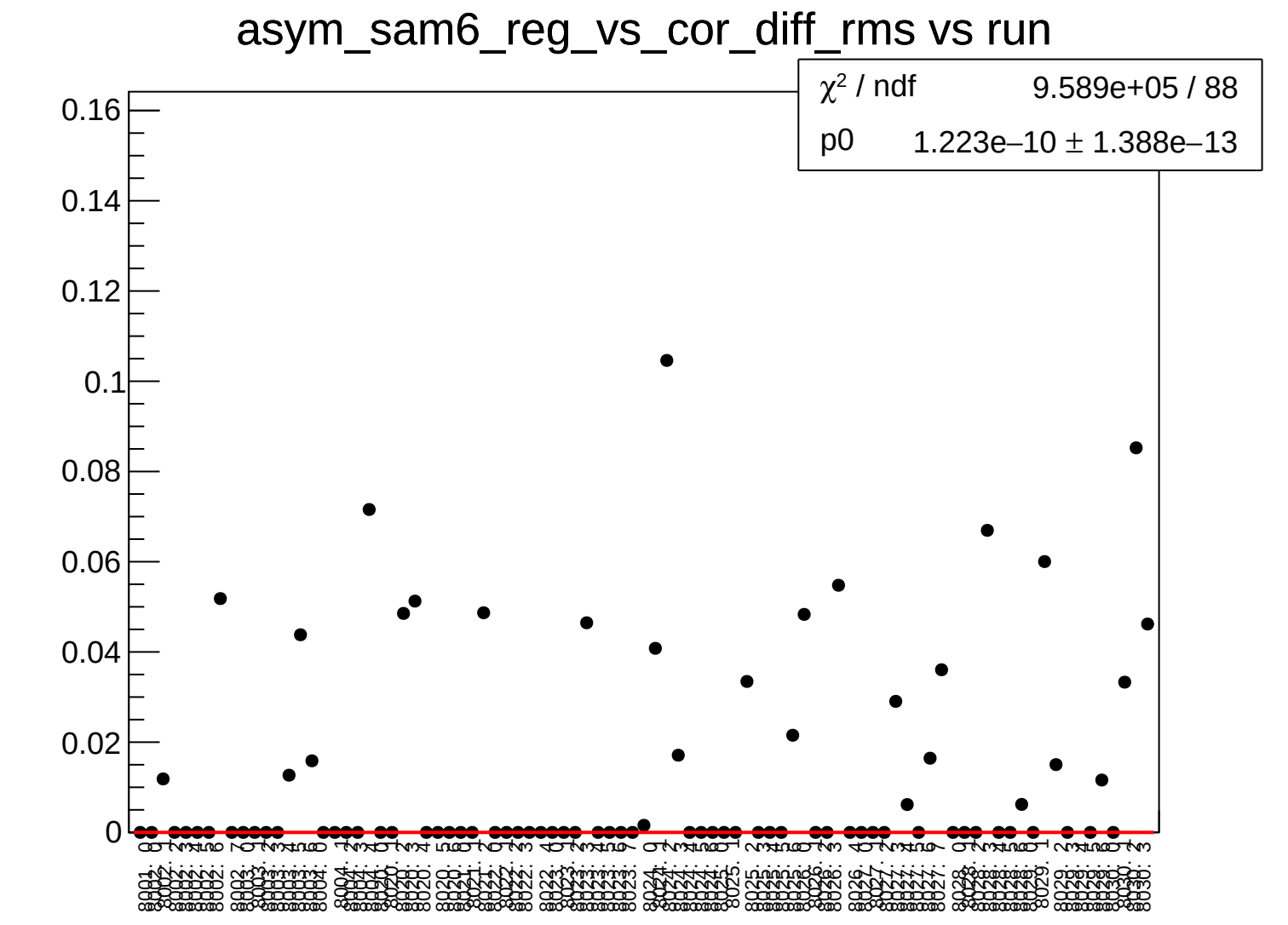

asym_sam6_mean vs run
χ² / ndf 85.16 / 88
p0 −144.4 ± 1893
pull
Entries 89
Mean 117.7
Std Dev 0

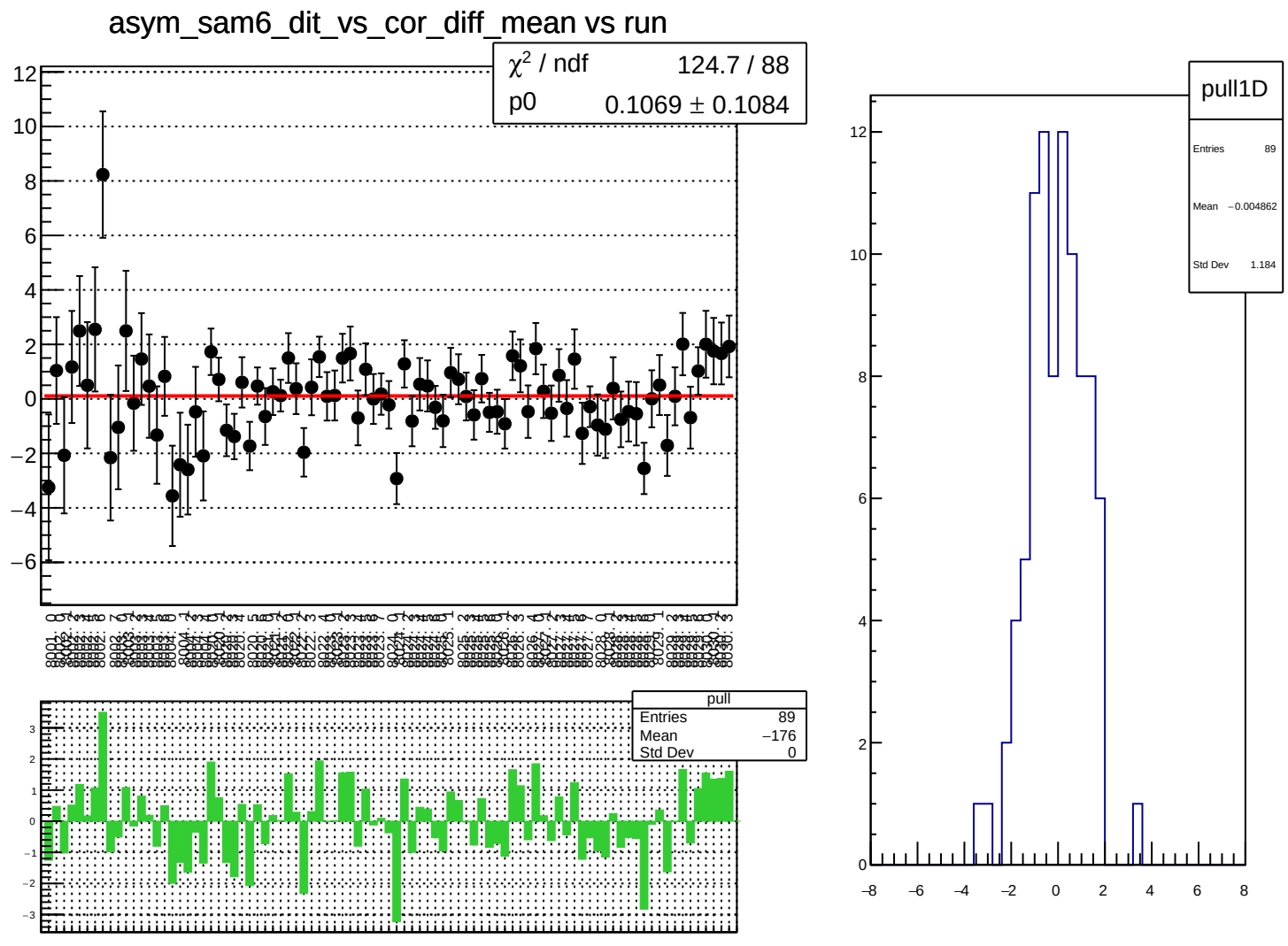

pull1D
Entries 89
Mean 0.01906
Std Dev 0.978

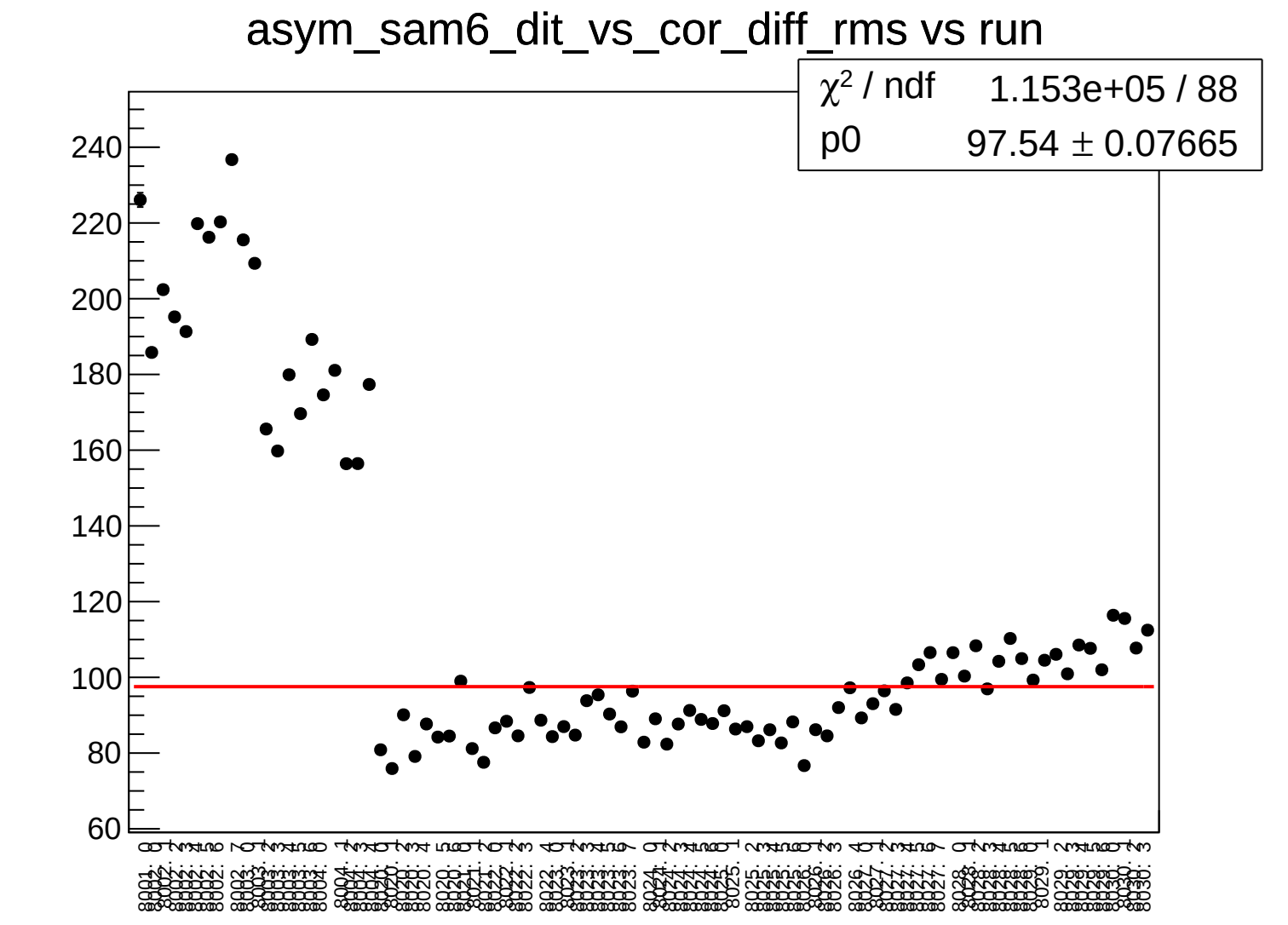

asym_sam6_rms vs run
χ^2 / ndf 6169 / 88
p0 1759 ± 1.338
2100
2000
1900
1800
1700
1600
1500

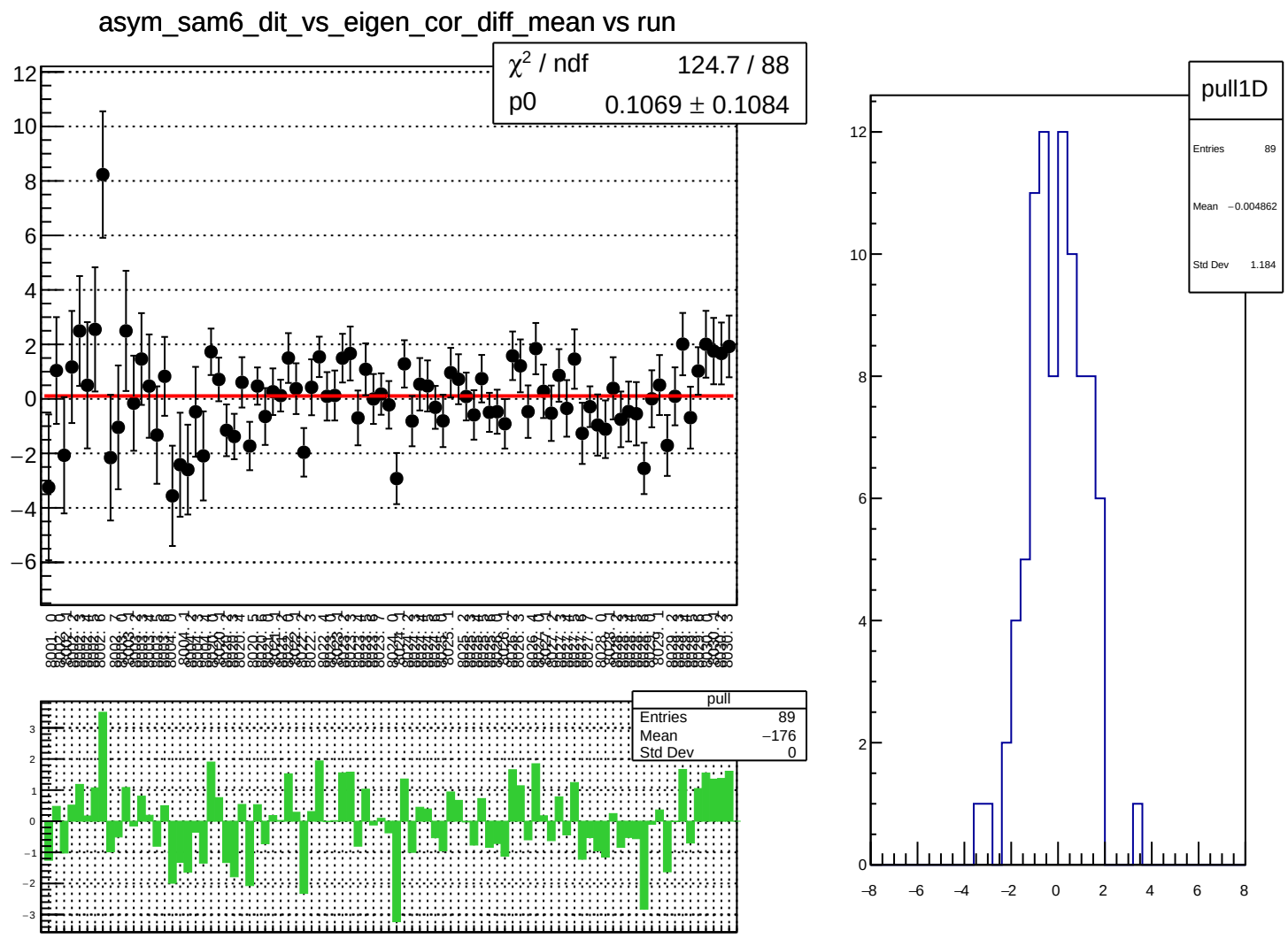

asym_sam6_reg_vs_cor_diff_mean vs run
χ² / ndf 104.5 / 88
p0 −9.036e−14 ± 1.963e−13
0.003
0.002
0.001
0
−0.001
−0.002
pull
Entries 89
Mean 24.89
Std Dev 0
2
1
0
−1
−2

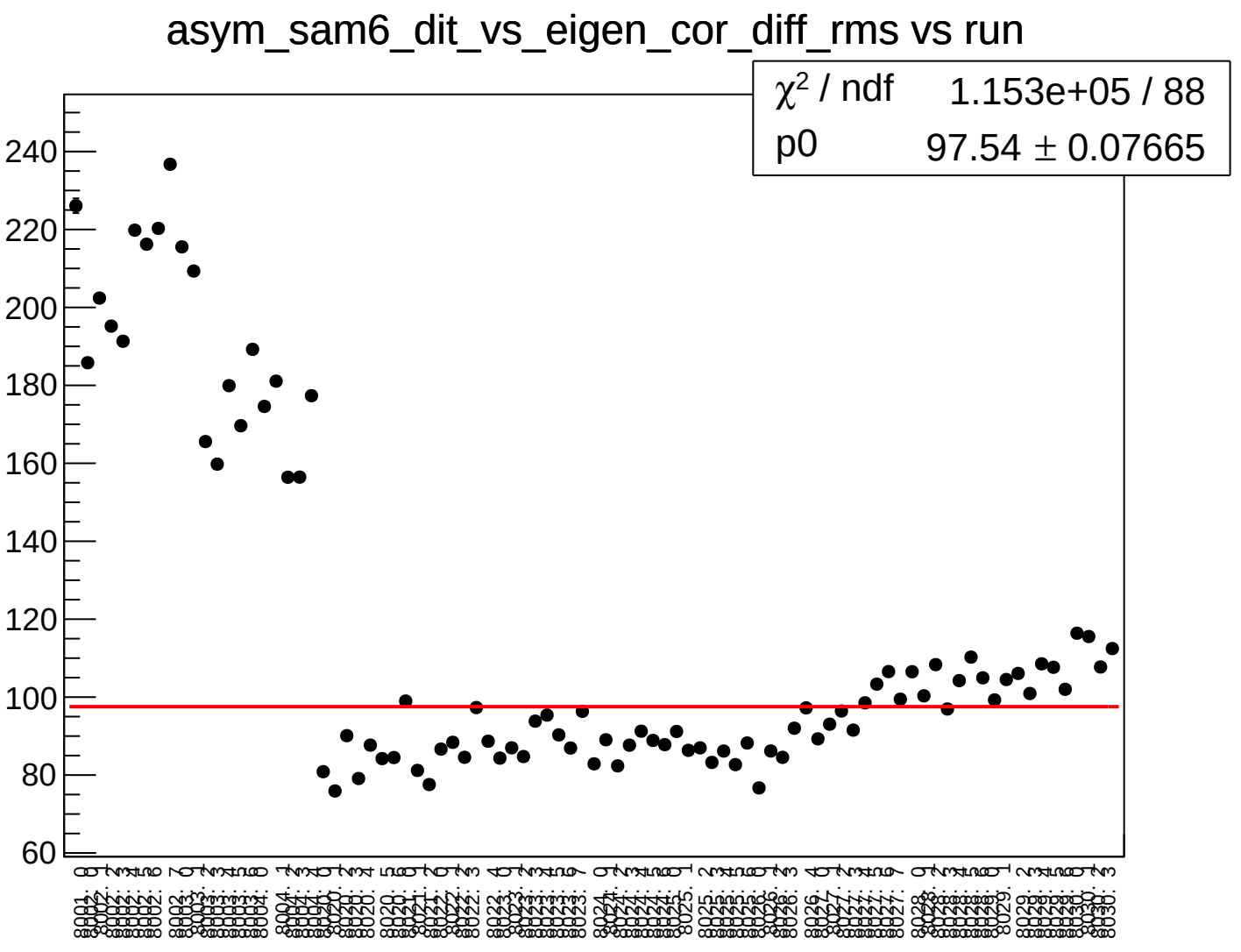

pull1D
Entries 89
Mean 0.1717
Std Dev 1.07
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

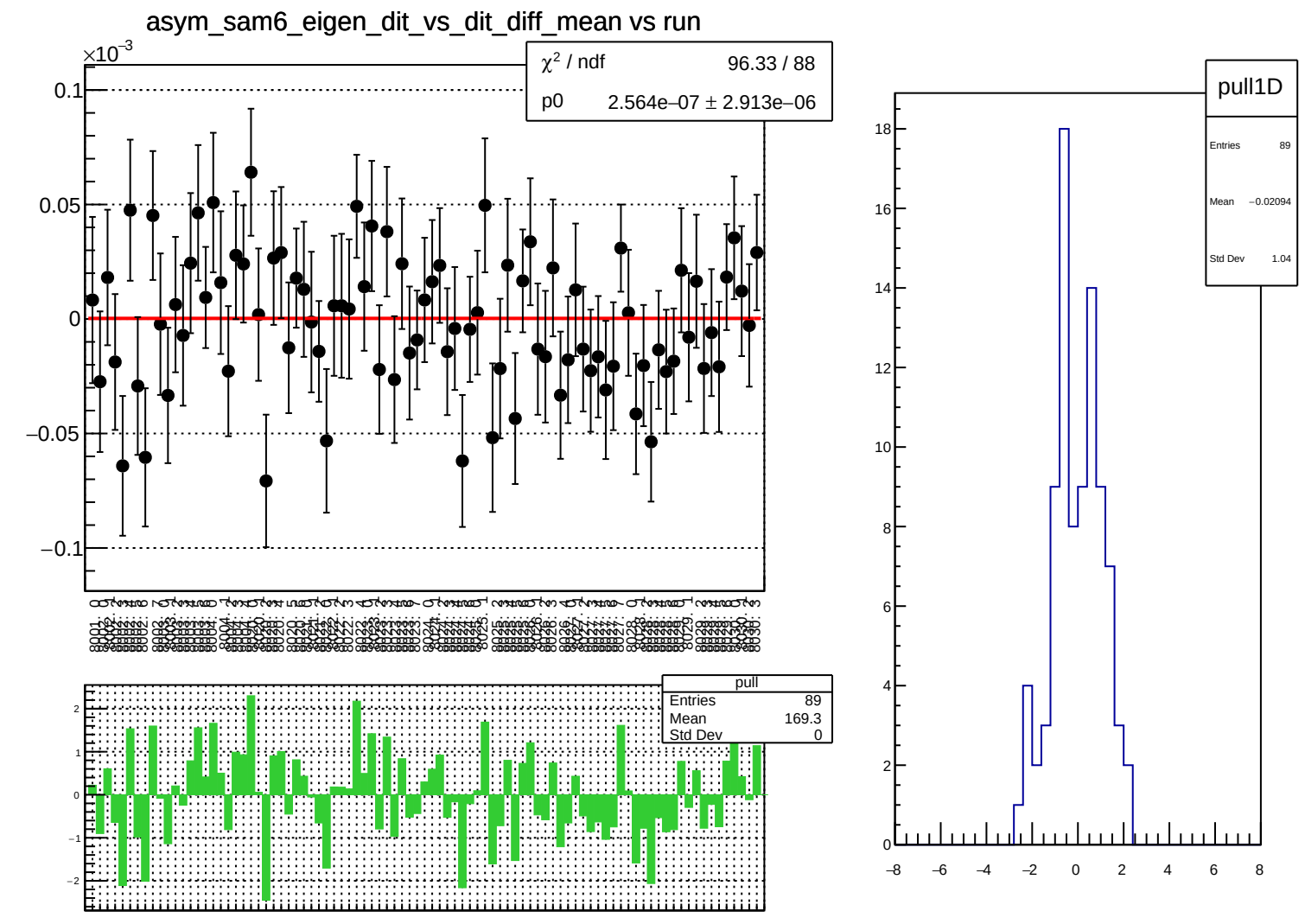

asym_sam6_reg_vs_cor_diff_rms vs run
χ² / ndf 9.589e+05 / 88
p0 1.223e−10 ± 1.388e−13
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

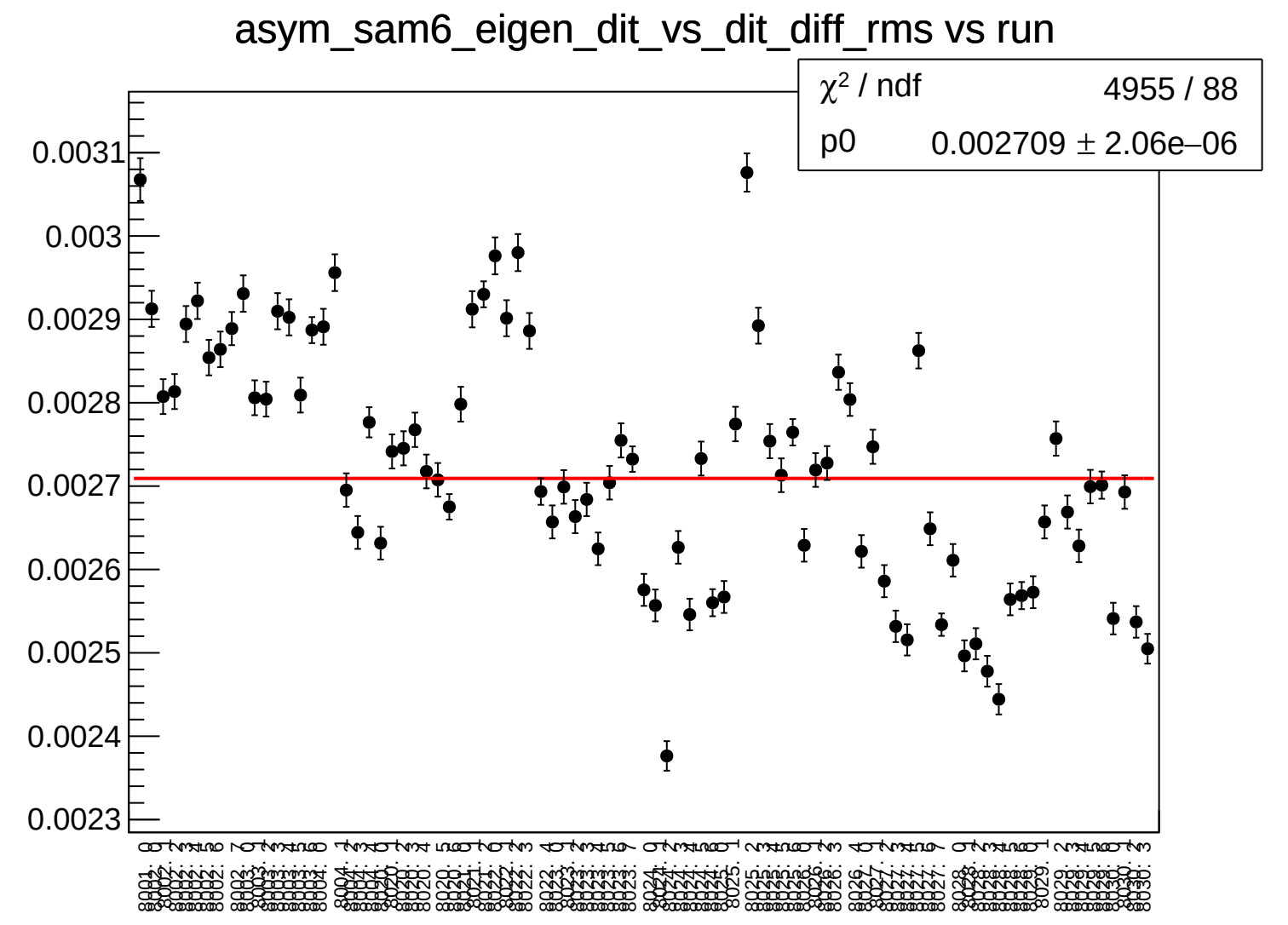

asym_sam6_dit_vs_cor_diff_mean vs run
χ² / ndf 124.7 / 88
p0 0.1069 ± 0.1084
pull
Entries 89
Mean −176
Std Dev 0
pull1D
Entries 89
Mean −0.004862
Std Dev 1.184

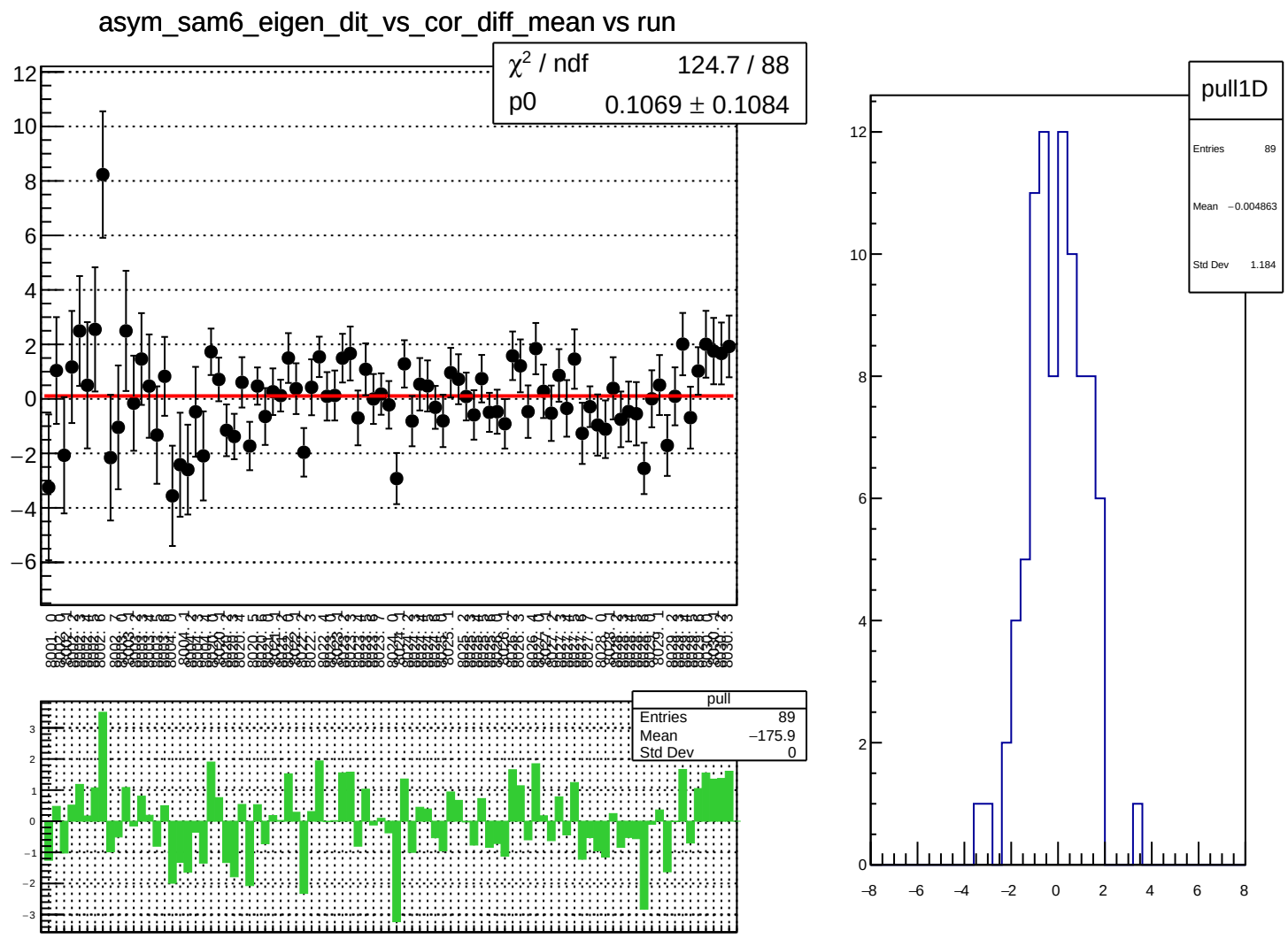

asym_sam6_dit_vs_cor_diff_rms vs run
χ² / ndf 1.153e+05 / 88
p0 97.54 ± 0.07665
240
220
200
180
160
140
120
100
80
60

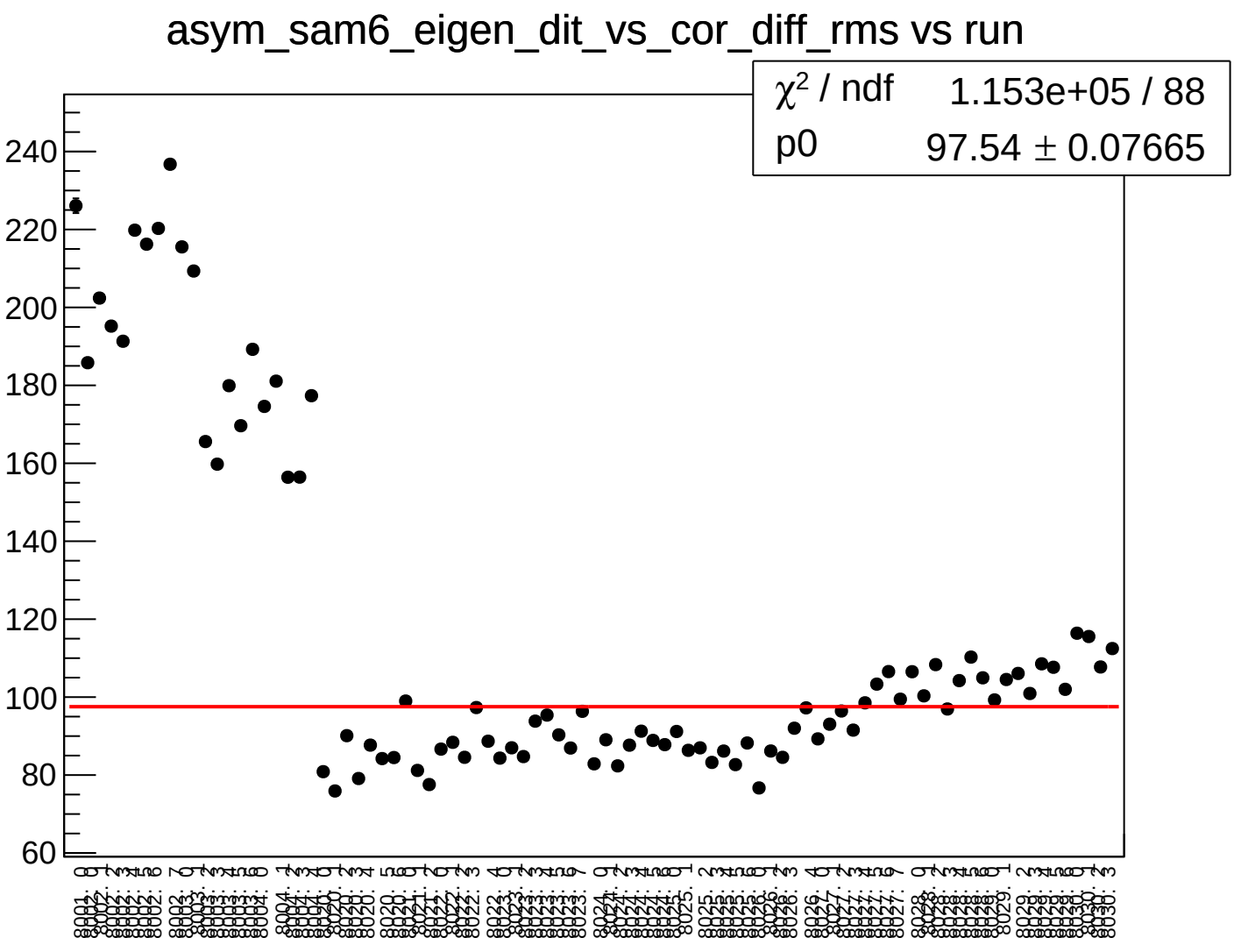

asym_sam6_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 124.7 / 88
p0 0.1069 ± 0.1084
pull
Entries 89
Mean −176
Std Dev 0
pull1D
Entries 89
Mean −0.004862
Std Dev 1.184

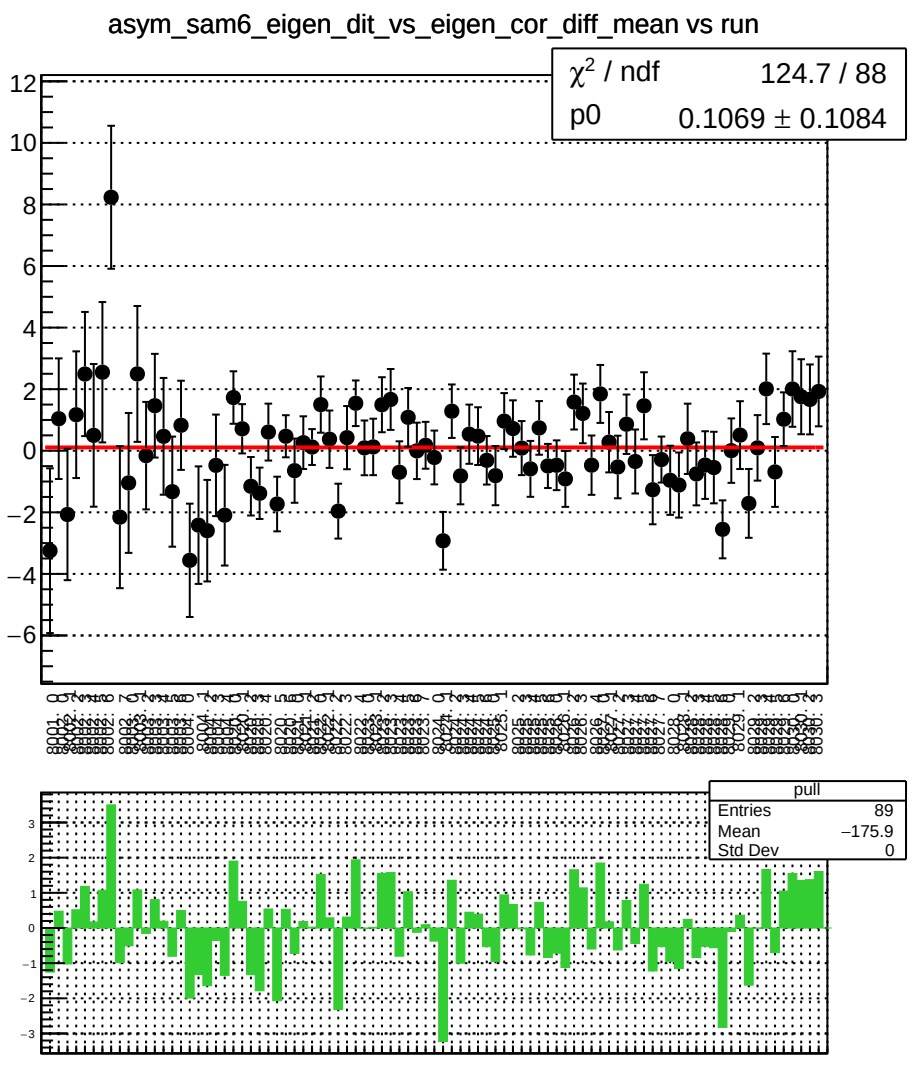

asym_sam6_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.153e+05 / 88
p0 97.54 ± 0.07665
240
220
200
180
160
140
120
100
80
60

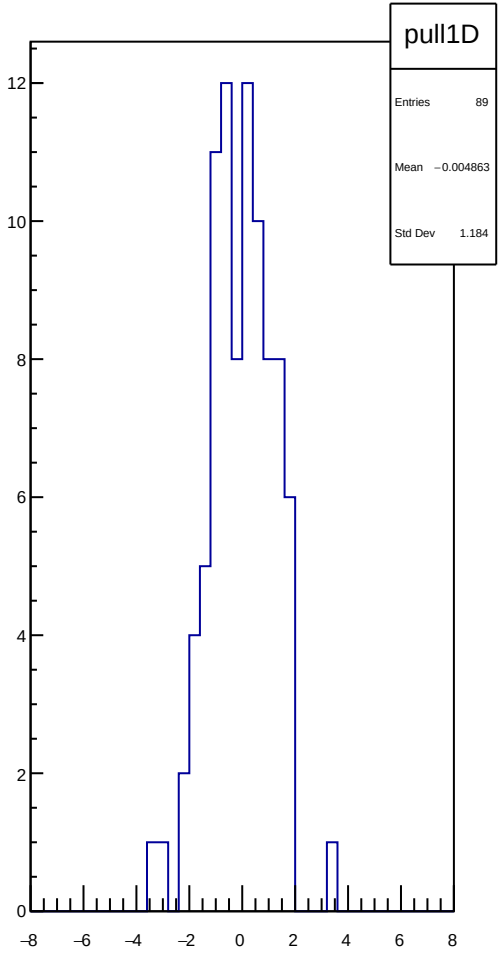

asym_sam6_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.33 / 88
p0 2.564e−07 ± 2.913e−06
pull
Entries 89
Mean 169.3
Std Dev 0
pull1D
Entries 89
Mean −0.02094
Std Dev 1.04

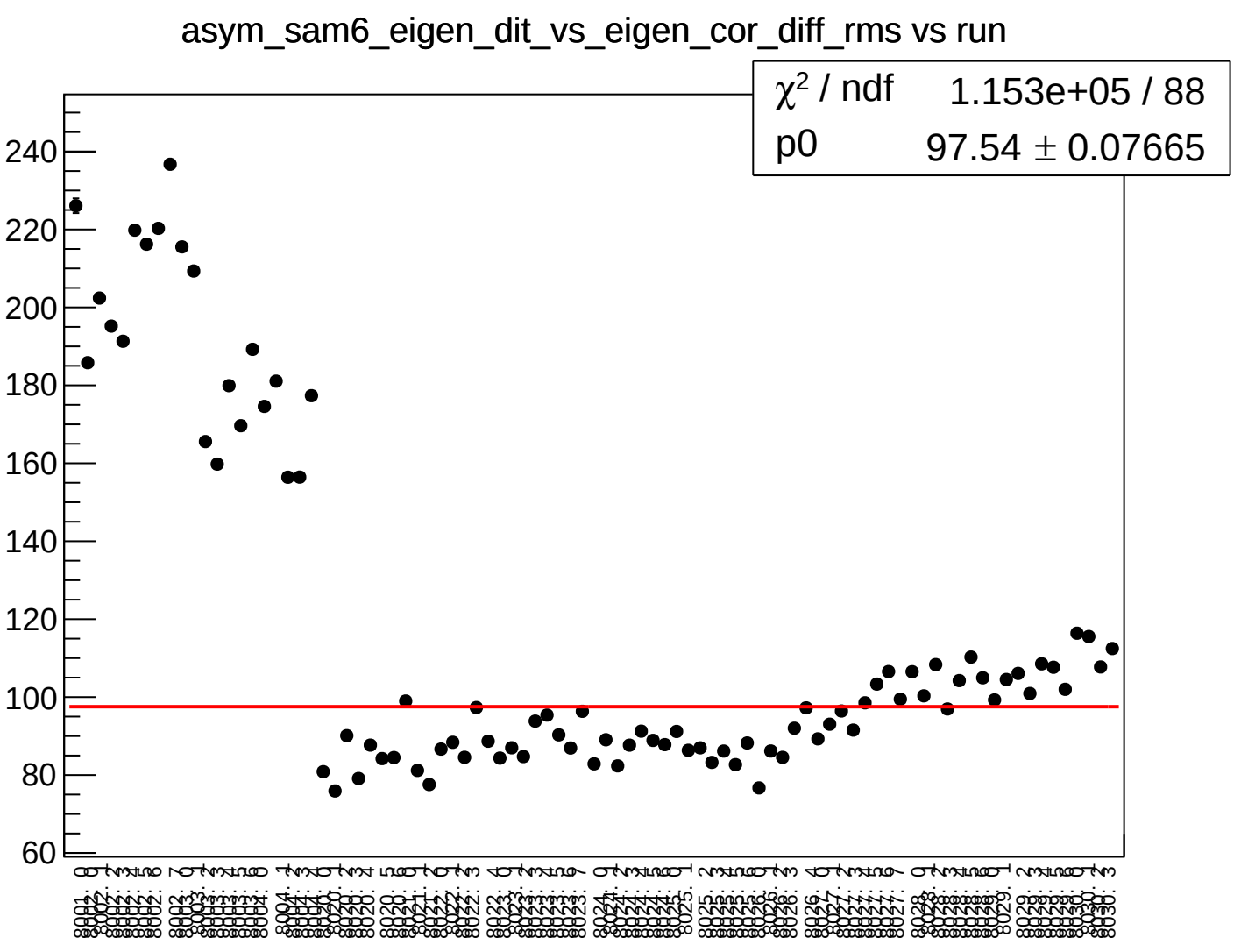

asym_sam6_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4955 / 88
p0 0.002709 ± 2.06e–06
0.0031
0.003
0.0029
0.0028
0.0027
0.0026
0.0025
0.0024
0.0023

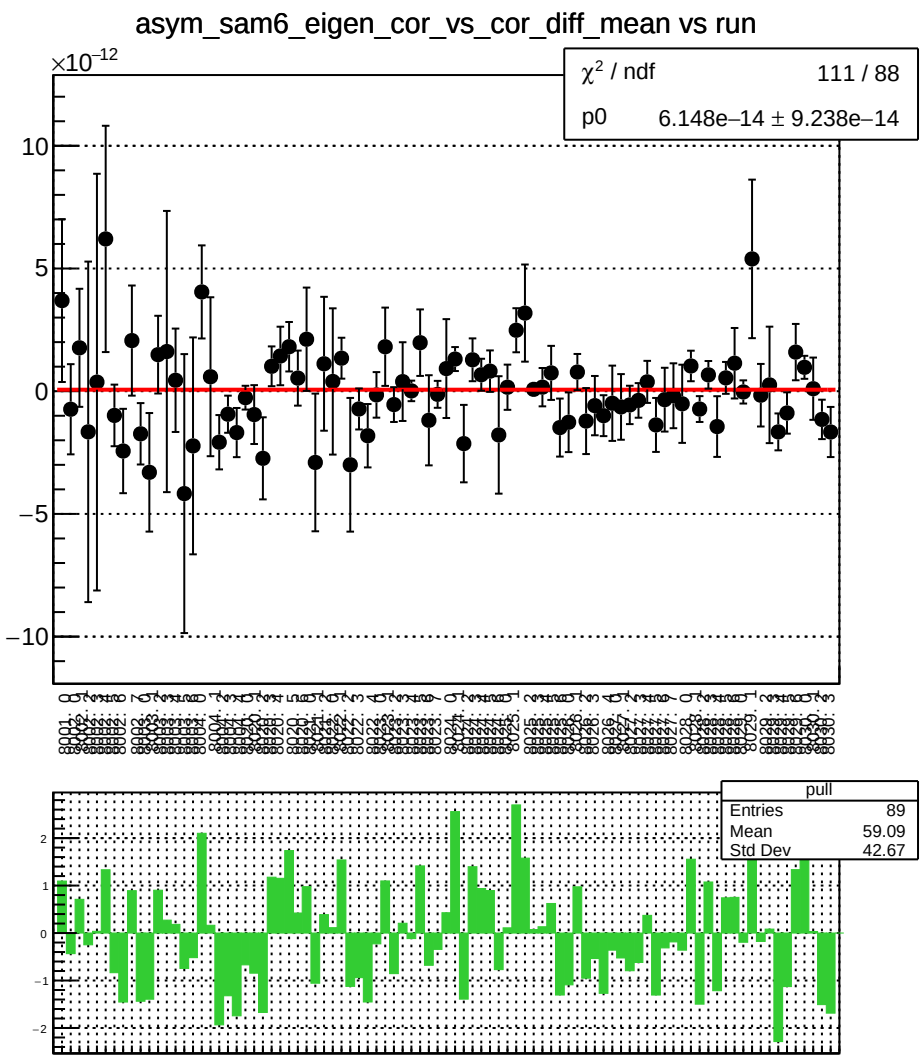

asym_sam6_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 124.7 / 88
p0 0.1069 ± 0.1084
pull
Entries 89
Mean −175.9
Std Dev 0
pull1D
Entries 89
Mean −0.004863
Std Dev 1.184

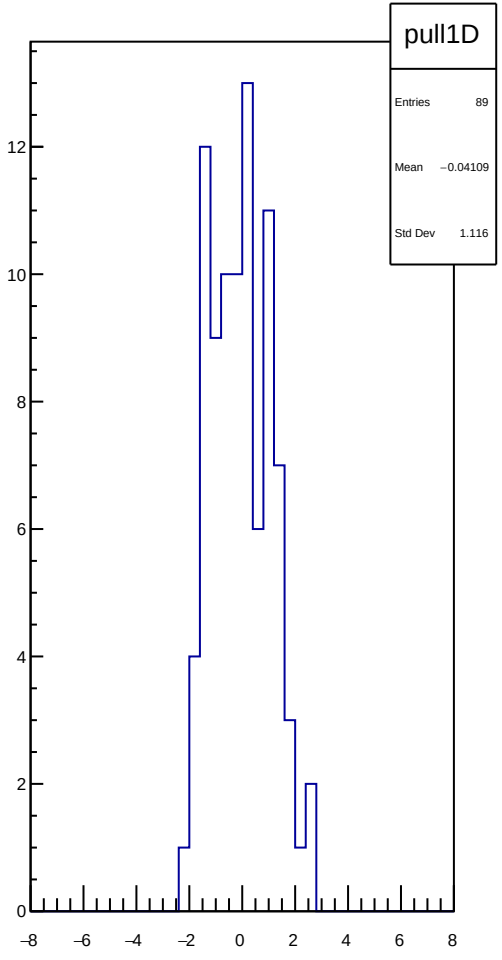

asym_sam6_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.153e+05 / 88
p0 97.54 ± 0.07665
240
220
200
180
160
140
120
100
80
60

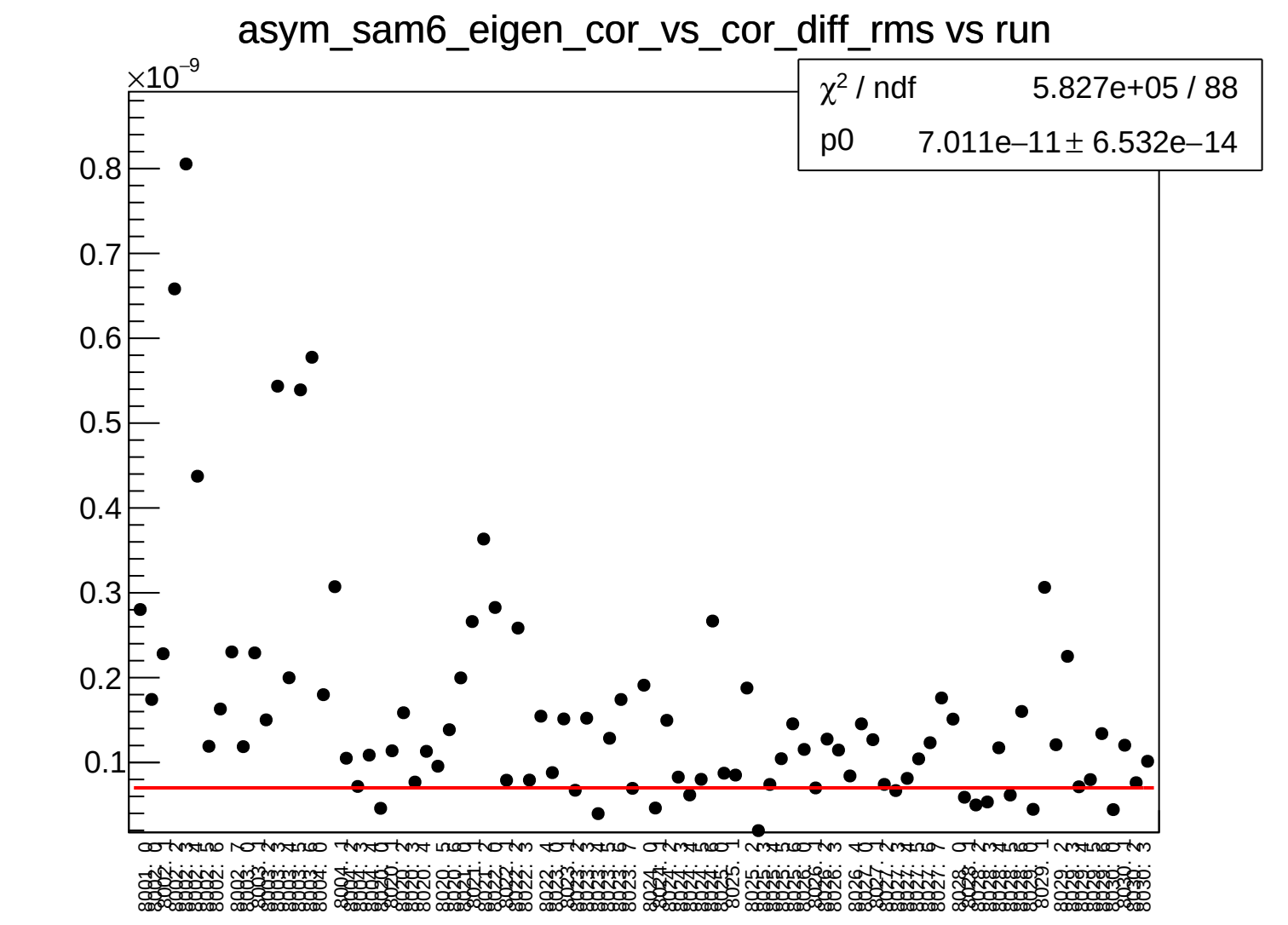

asym_sam6_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 124.7 / 88
p0 0.1069 ± 0.1084
pull
Entries 89
Mean −175.9
Std Dev 0

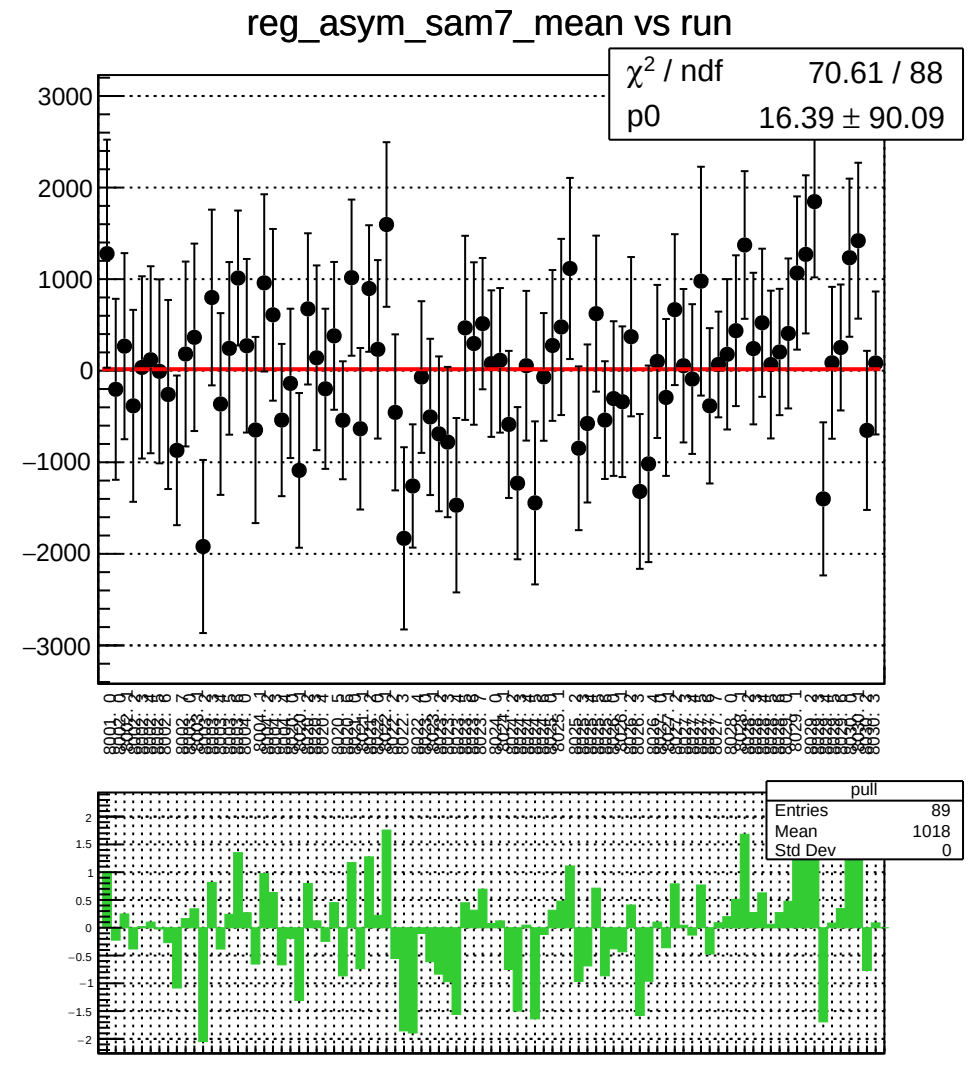

pull1D
Entries 89
Mean −0.004863
Std Dev 1.184

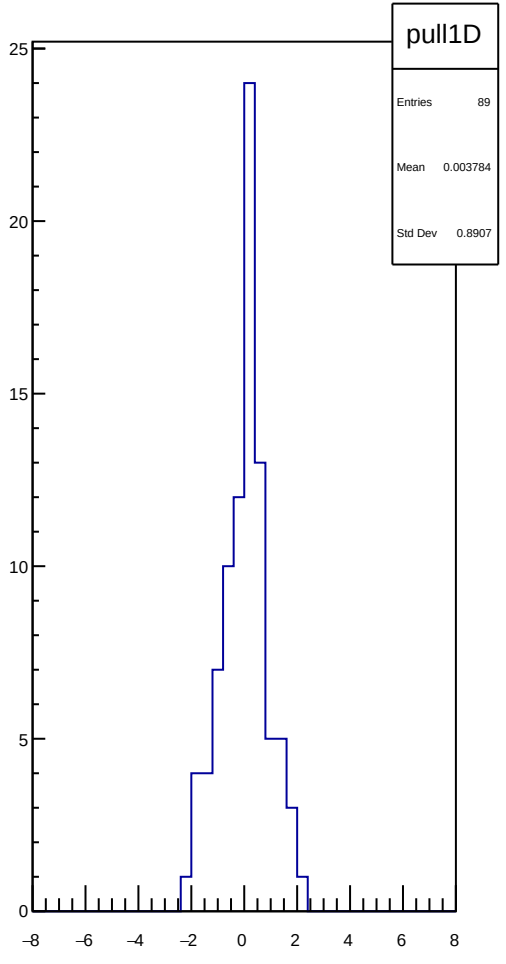

asym_sam6_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.153e+05 / 88
p0 97.54 ± 0.07665
240
220
200
180
160
140
120
100
80
60

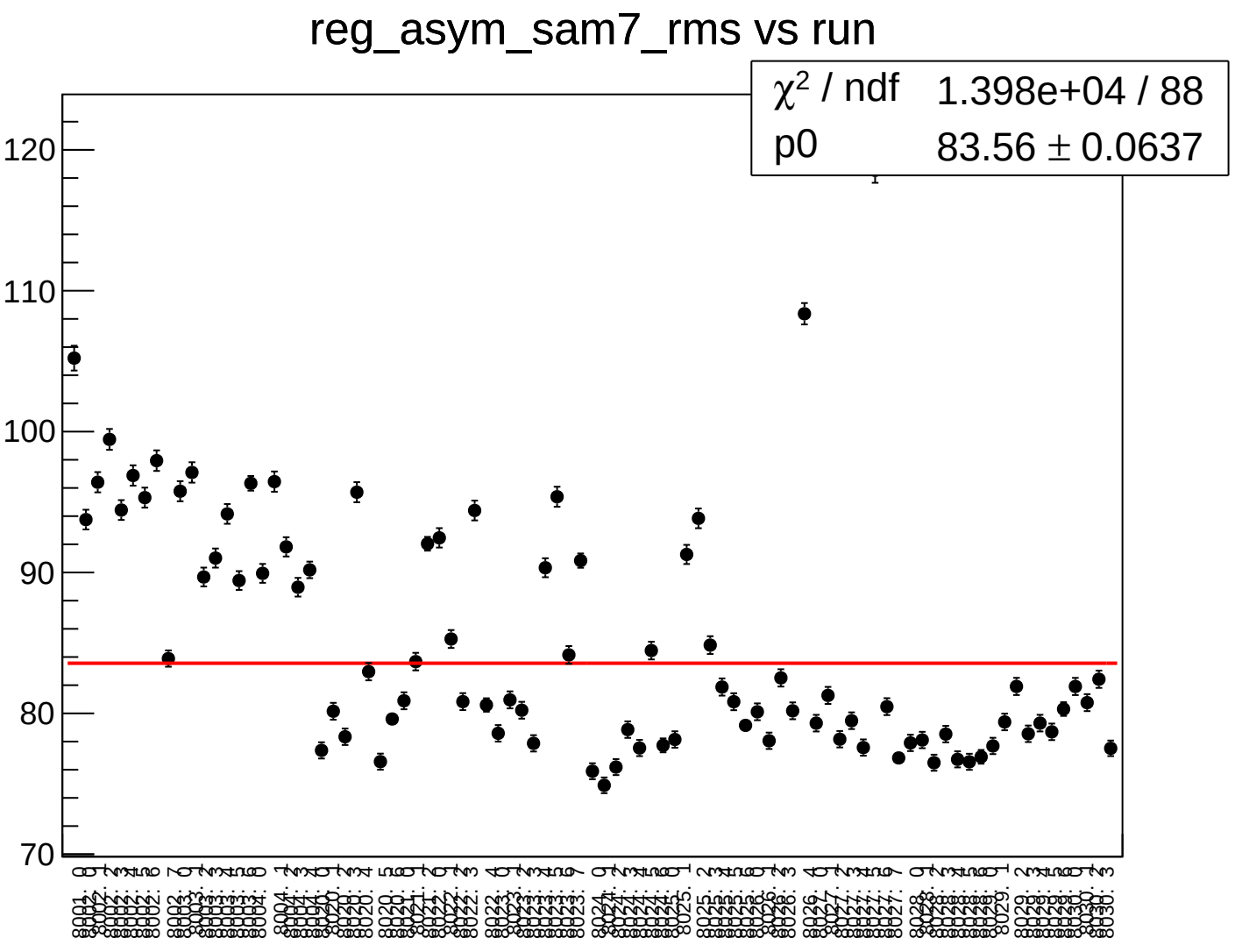

asym_sam6_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 111 / 88
p0 6.148e−14 ± 9.238e−14
pull
Entries 89
Mean 59.09
Std Dev 42.67

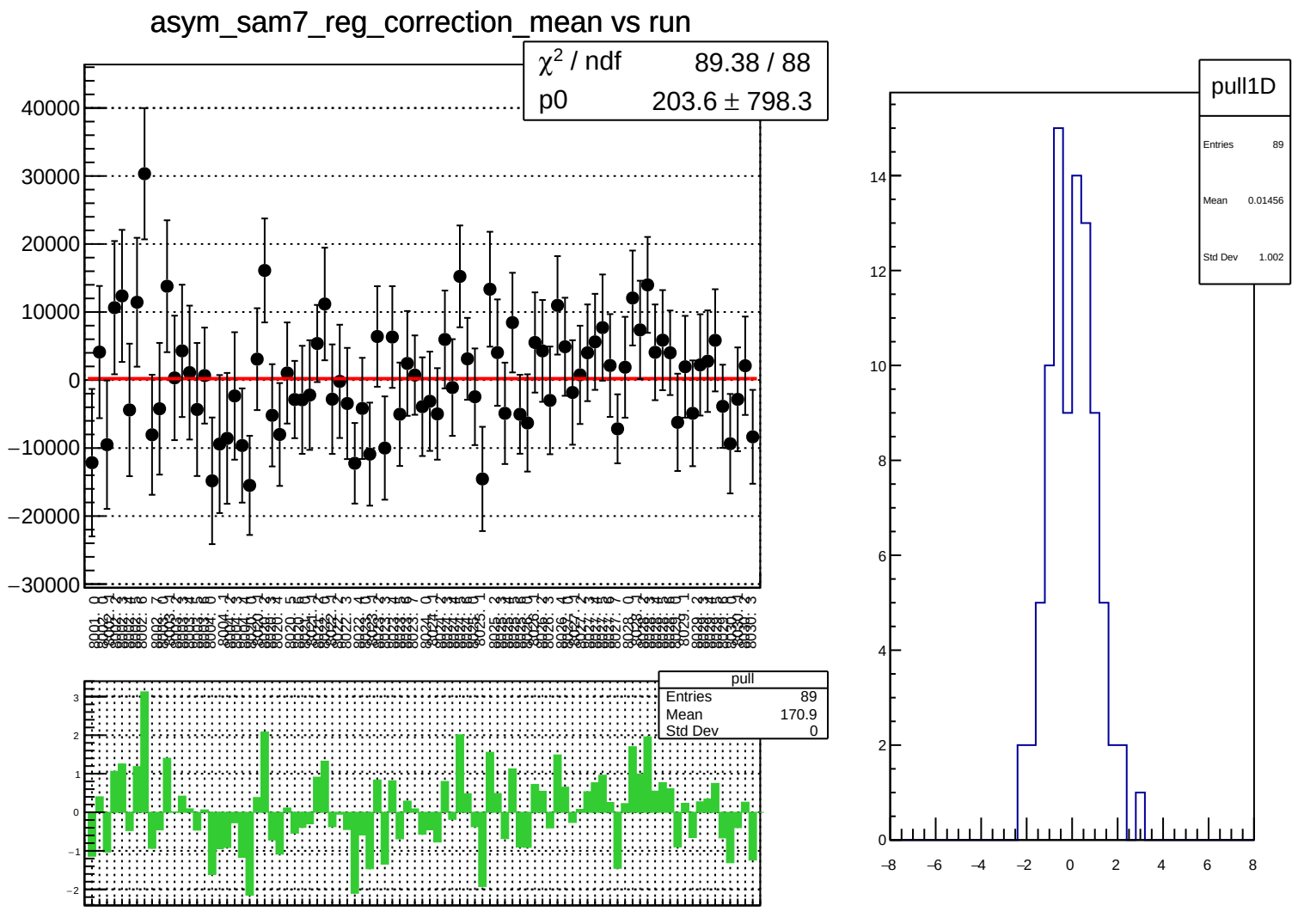

pull1D
Entries 89
Mean −0.04109
Std Dev 1.116

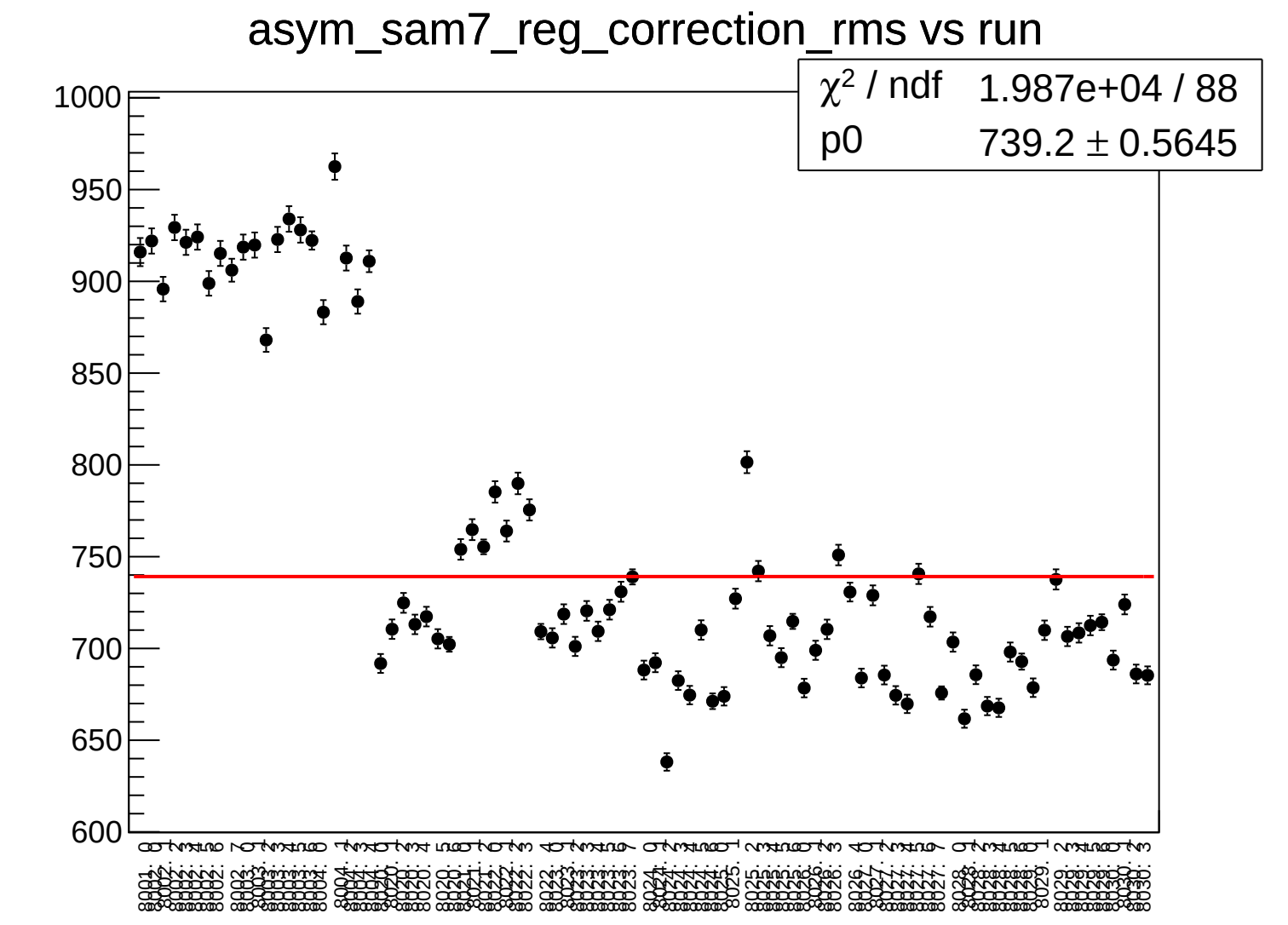

asym_sam6_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.827e+05 / 88
p0 7.011e−11 ± 6.532e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

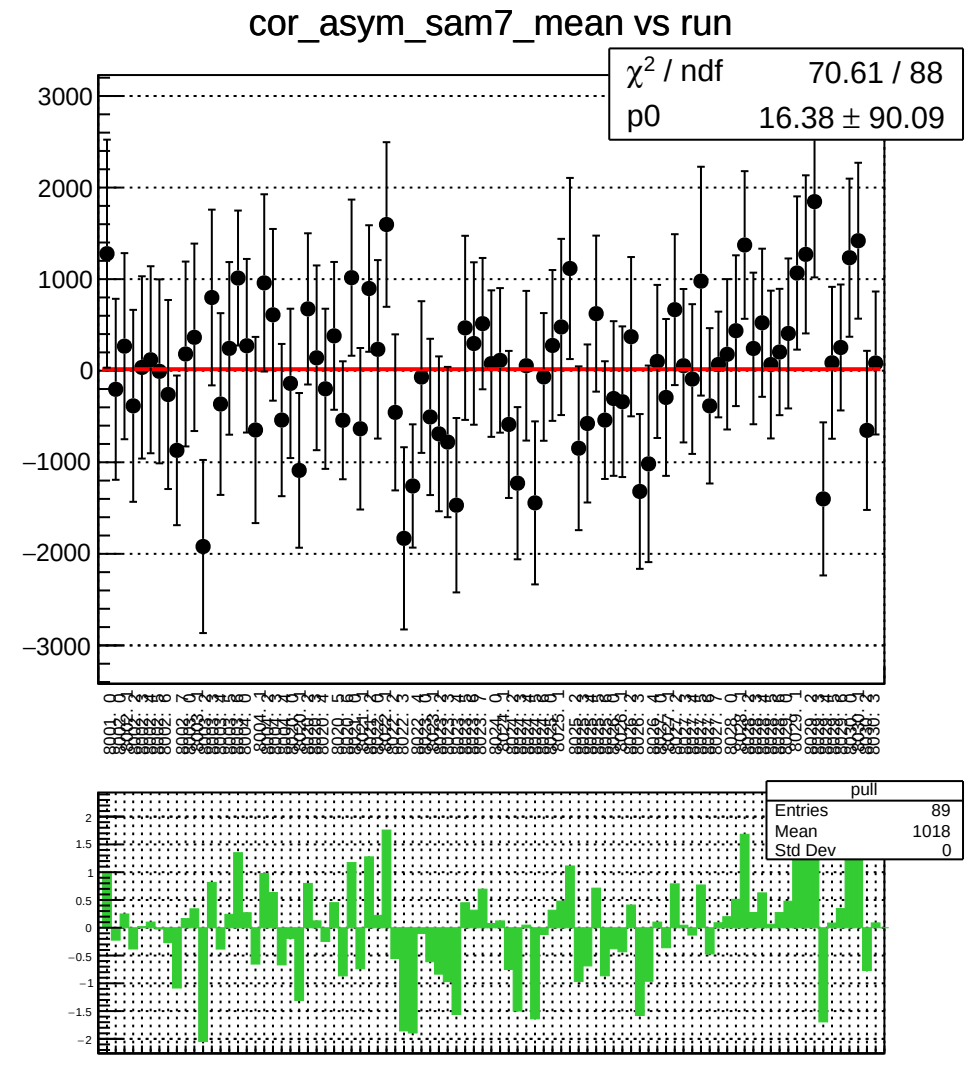

reg_asym_sam7_mean vs run
χ² / ndf 70.61 / 88
p0 16.39 ± 90.09
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean 1018
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

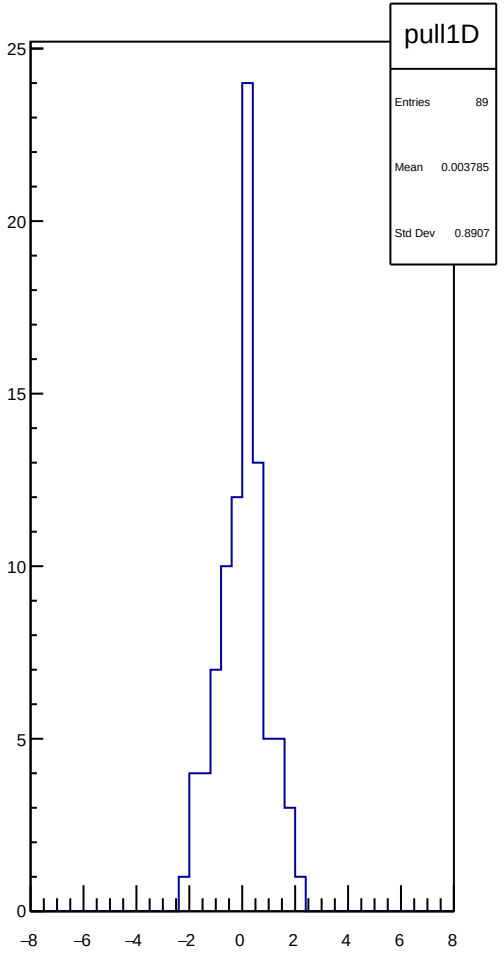

pull1D
Entries 89
Mean 0.003784
Std Dev 0.8907
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

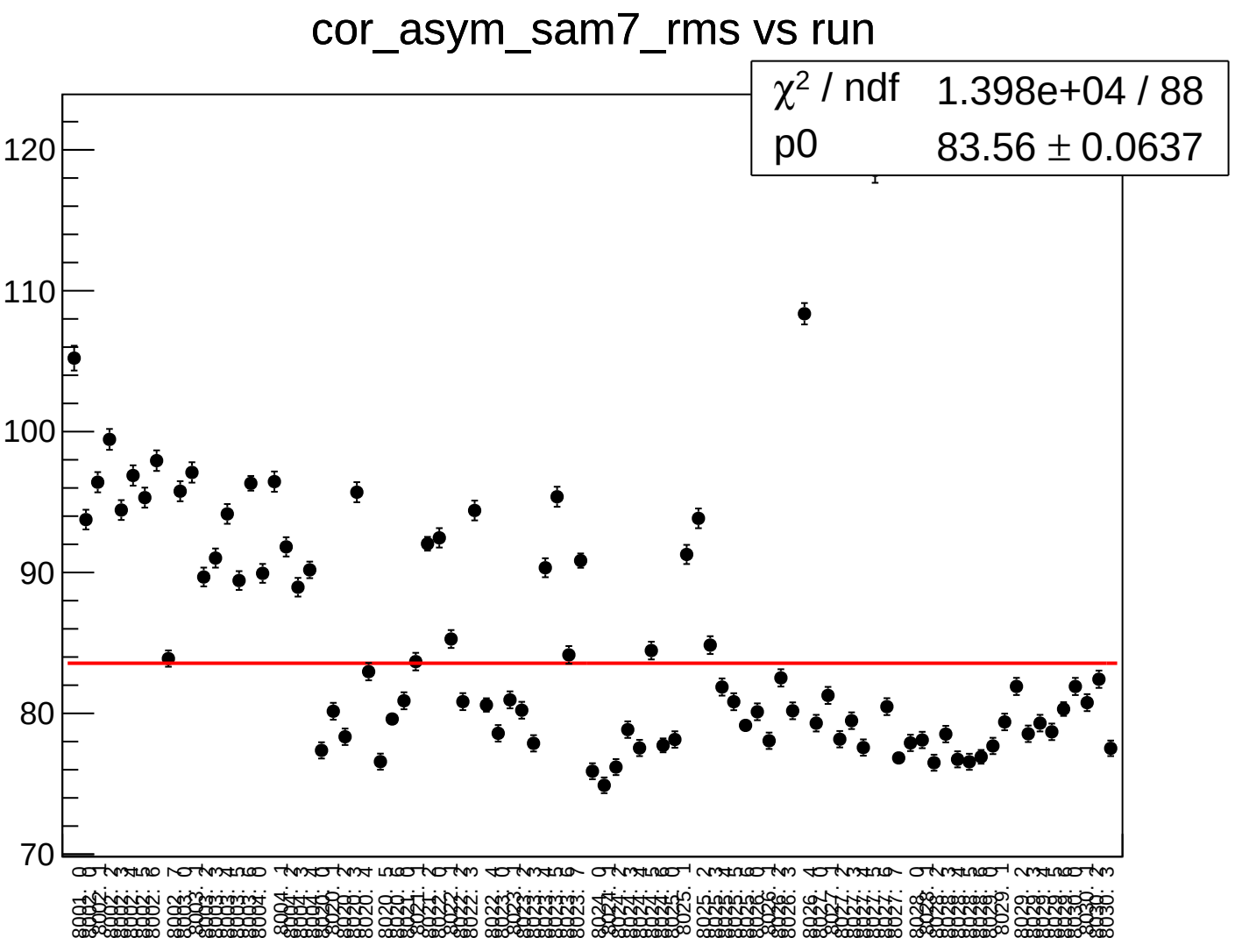

reg_asym_sam7_rms vs run
χ^2 / ndf 1.398e+04 / 88
p0 83.56 ± 0.0637
120
110
100
90
80
70

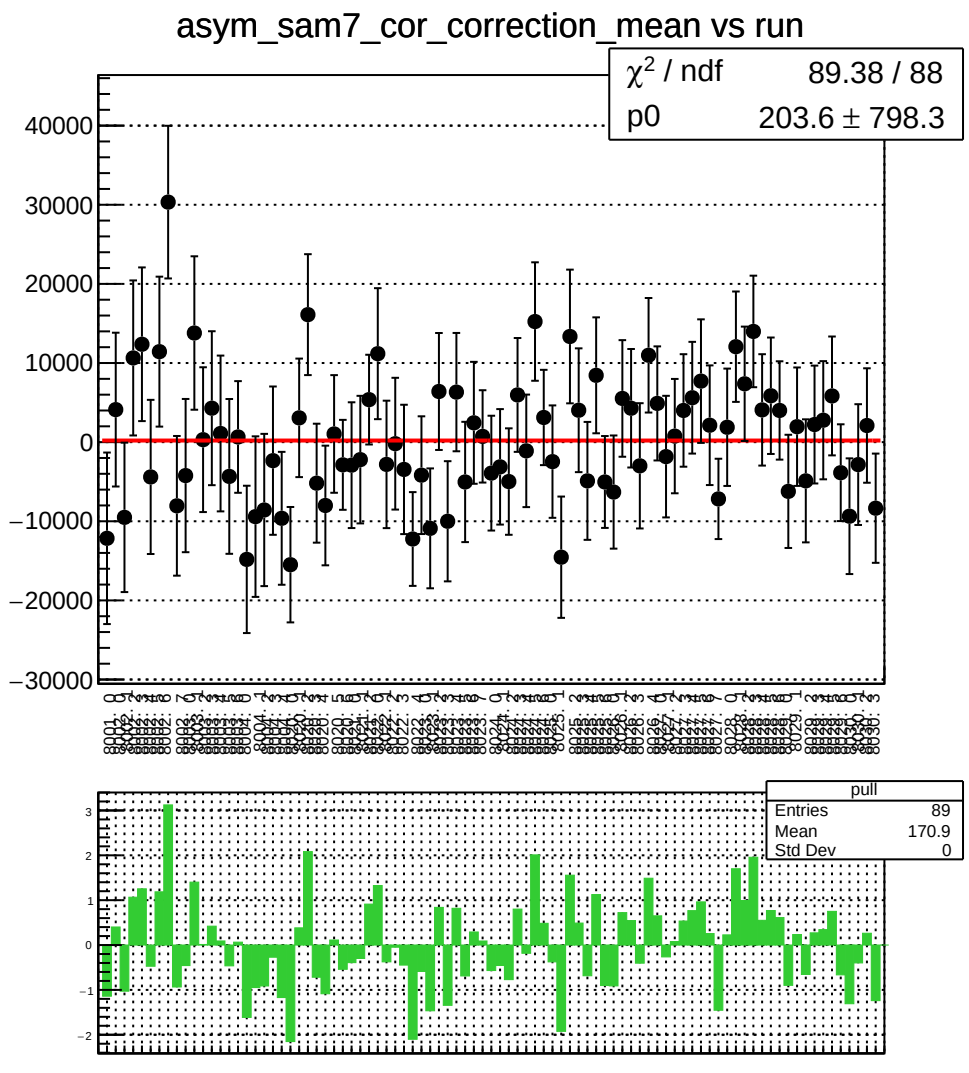

asym_sam7_reg_correction_mean vs run
χ² / ndf 89.38 / 88
p0 203.6 ± 798.3
pull
Entries 89
Mean 170.9
Std Dev 0
pull1D
Entries 89
Mean 0.01456
Std Dev 1.002

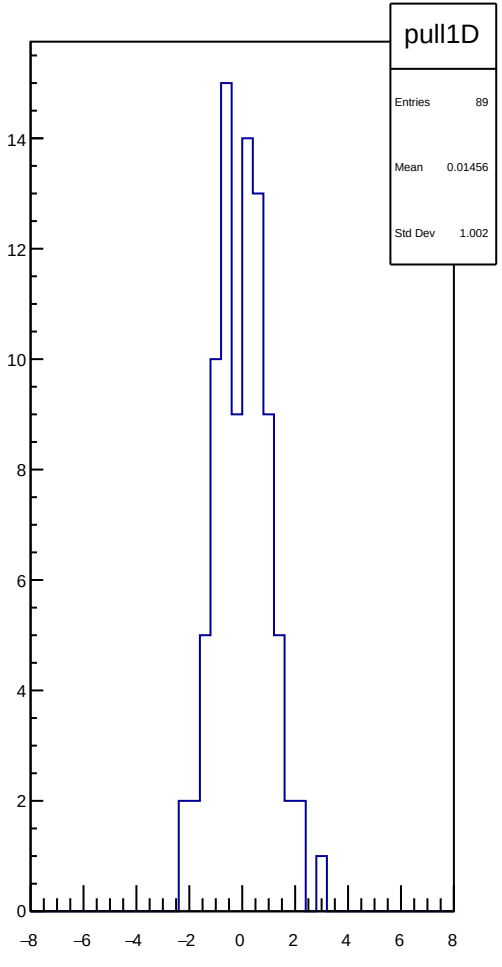

asym_sam7_reg_correction_rms vs run
χ² / ndf 1.987e+04 / 88
p0 739.2 ± 0.5645
1000
950
900
850
800
750
700
650
600

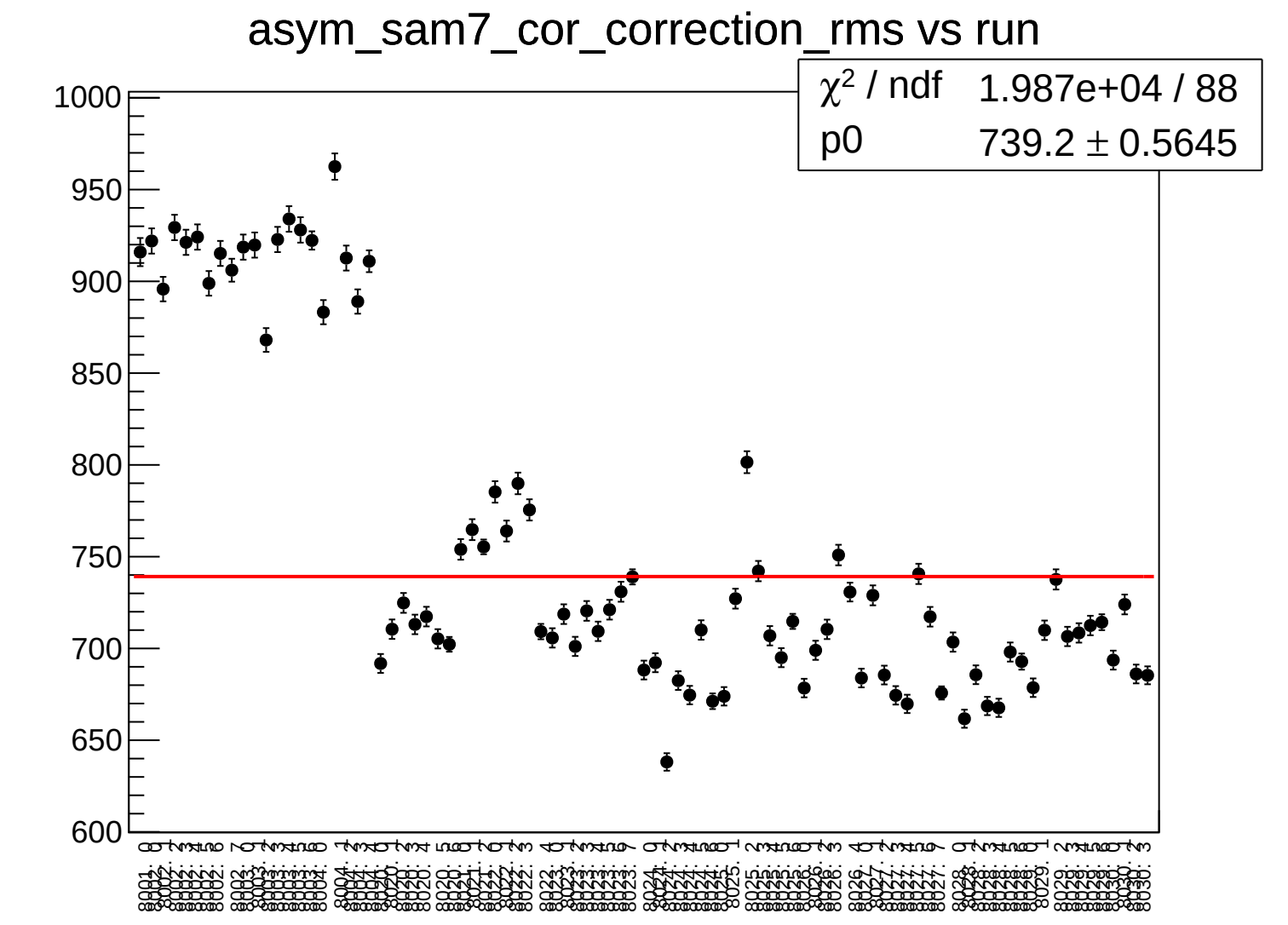

cor_asym_sam7_mean vs run
χ² / ndf 70.61 / 88
p0 16.38 ± 90.09
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean 1018
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

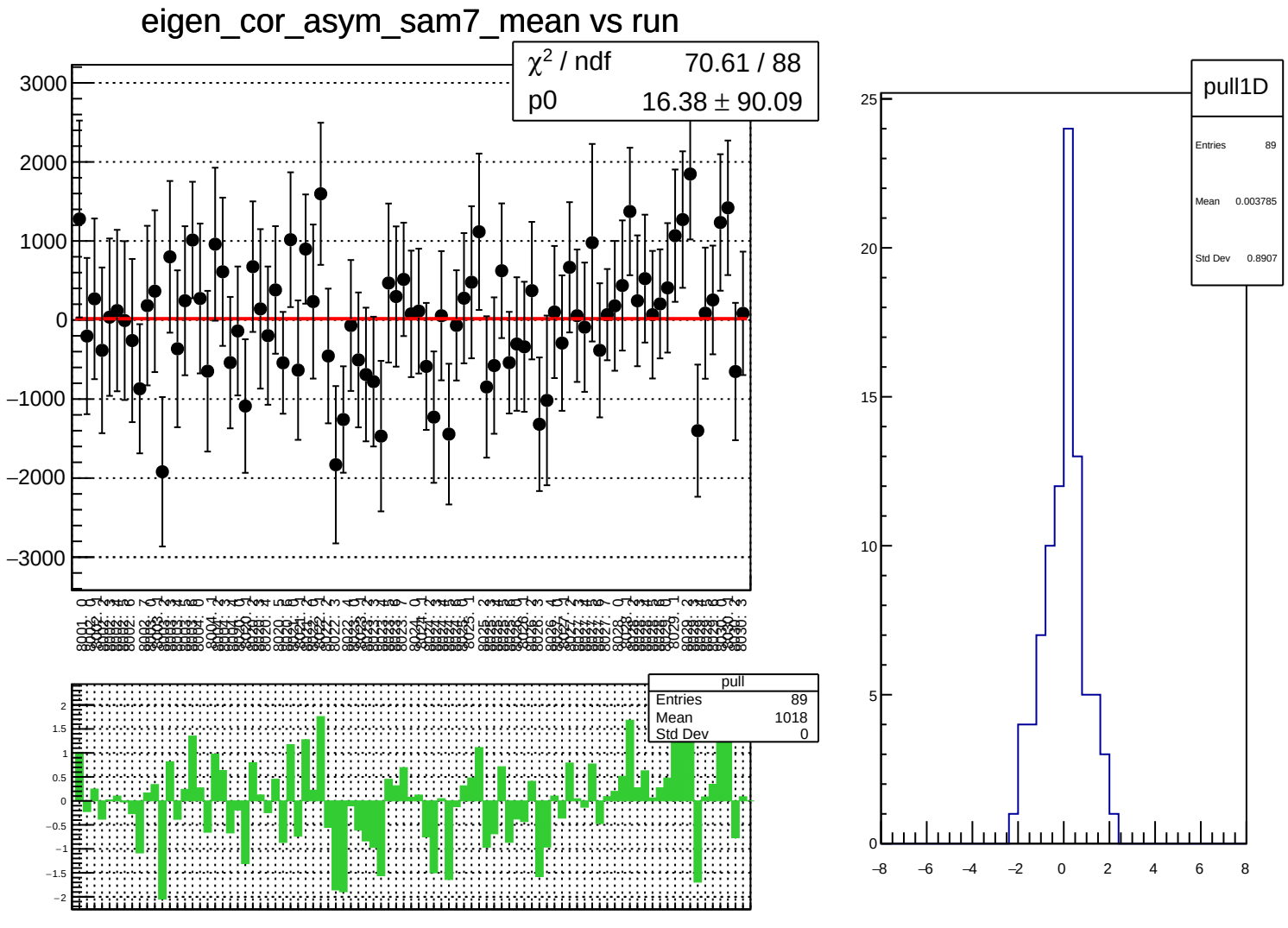

pull1D
Entries 89
Mean 0.003785
Std Dev 0.8907
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

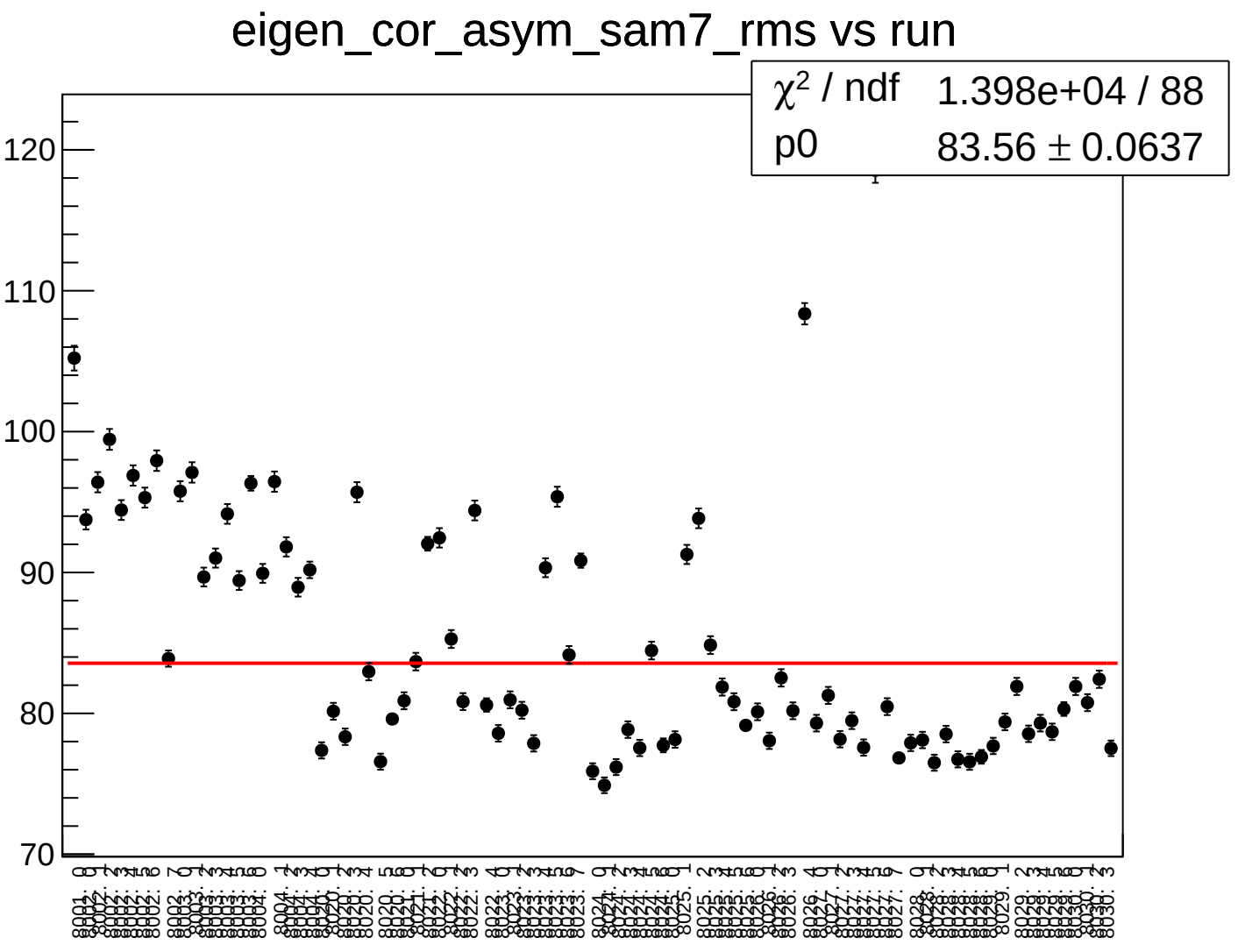

cor_asym_sam7_rms vs run
χ² / ndf 1.398e+04 / 88
p0 83.56 ± 0.0637
120
110
100
90
80
70

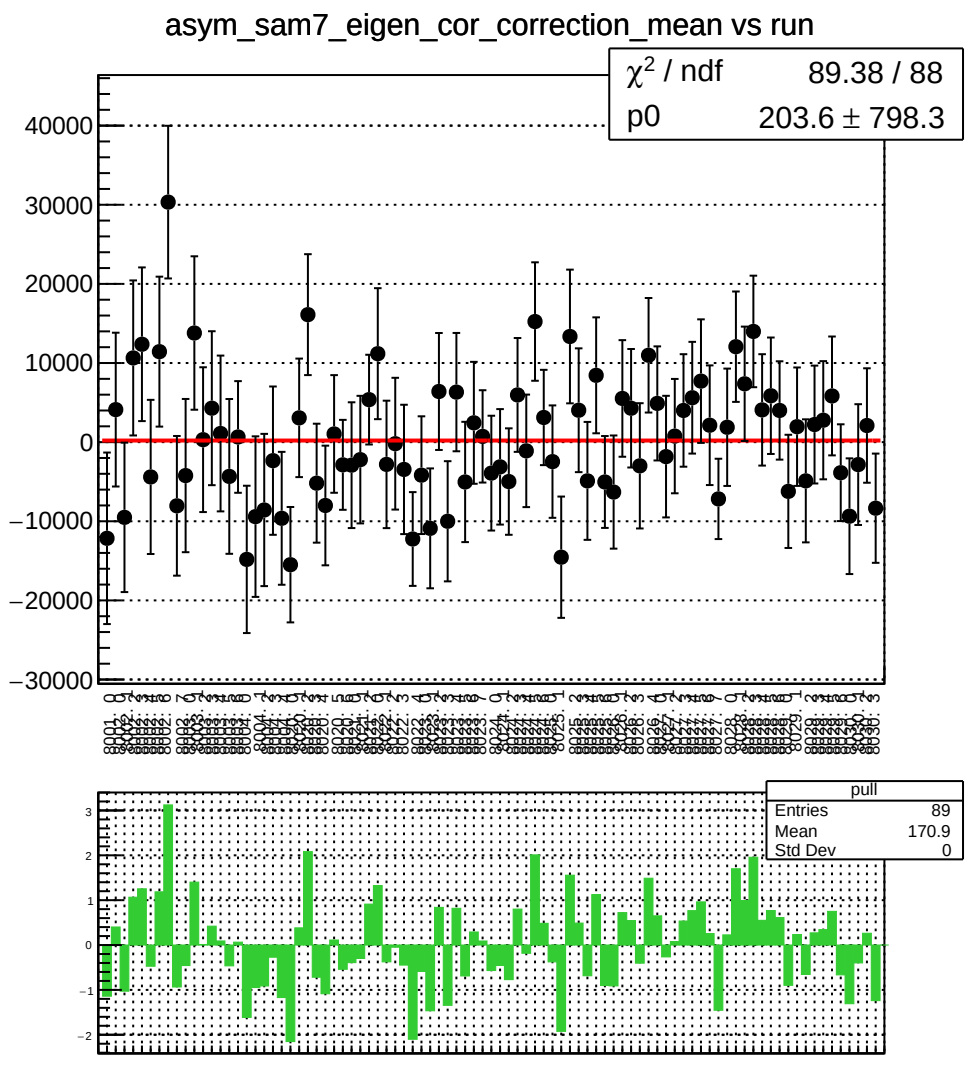

asym_sam7_cor_correction_mean vs run
χ² / ndf 89.38 / 88
p0 203.6 ± 798.3
pull
Entries 89
Mean 170.9
Std Dev 0

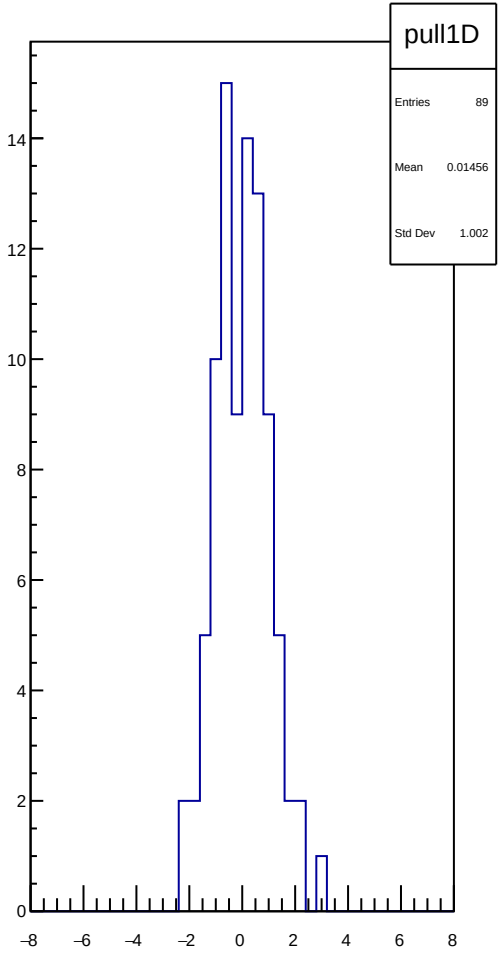

pull1D
Entries 89
Mean 0.01456
Std Dev 1.002

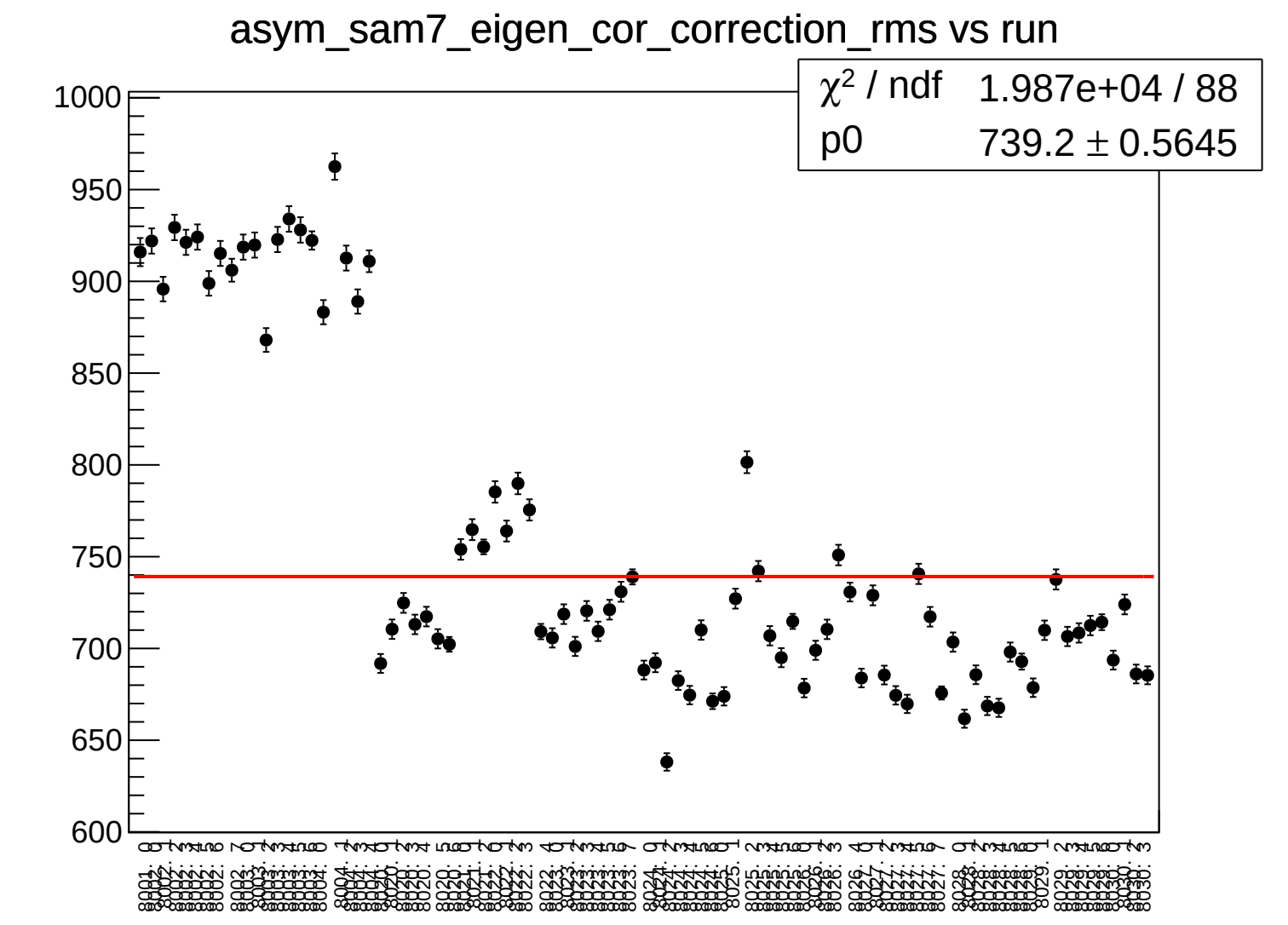

asym_sam7_cor_correction_rms vs run
χ² / ndf 1.987e+04 / 88
p0 739.2 ± 0.5645
1000
950
900
850
800
750
700
650
600

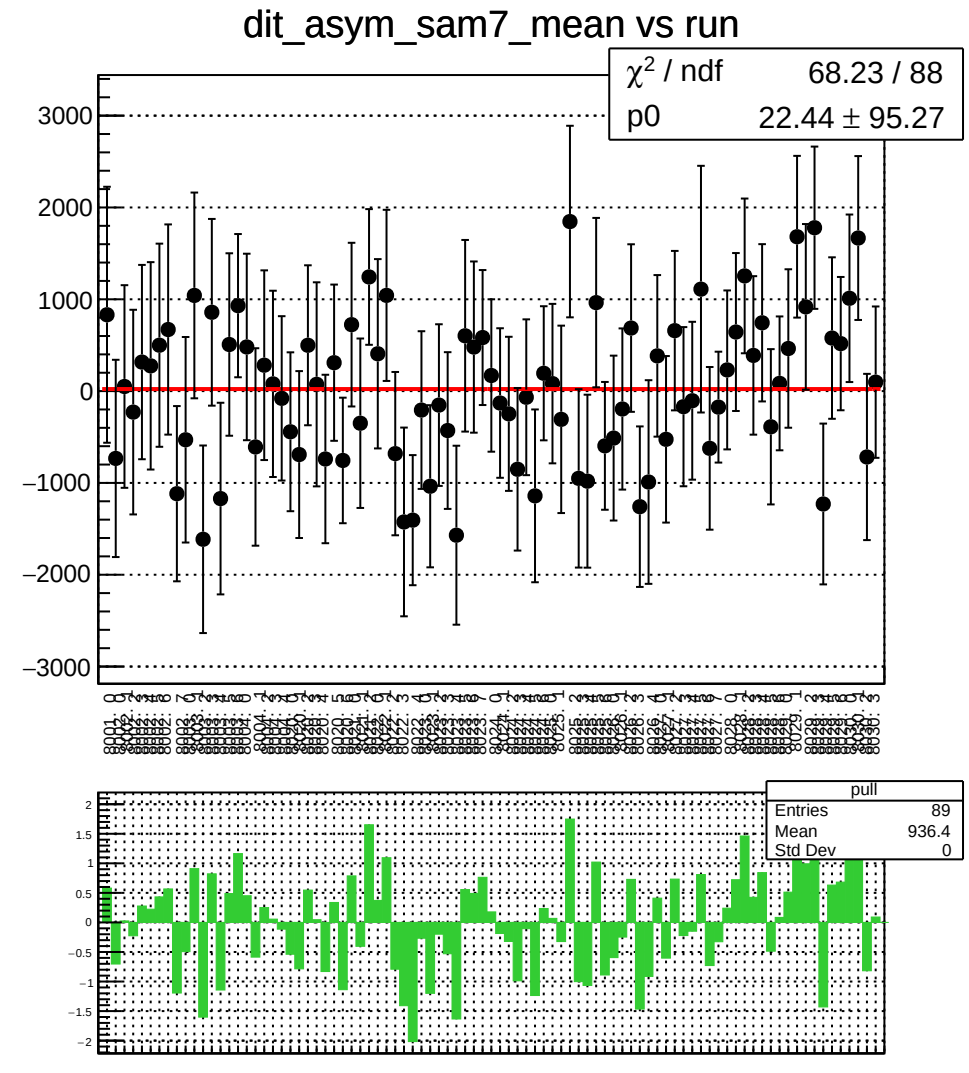

eigen_cor_asym_sam7_mean vs run
χ² / ndf 70.61 / 88
p0 16.38 ± 90.09
pull
Entries 89
Mean 1018
Std Dev 0
pull1D
Entries 89
Mean 0.003785
Std Dev 0.8907

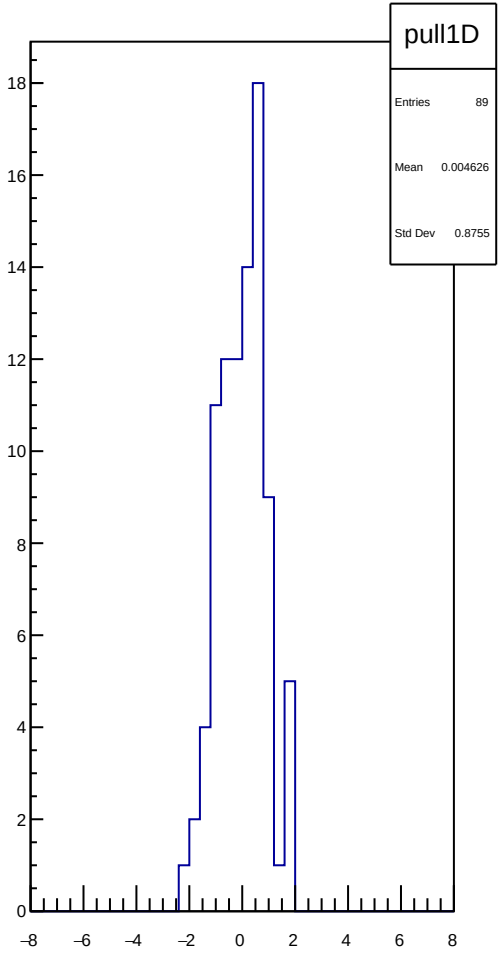

eigen_cor_asym_sam7_rms vs run
χ^2 / ndf 1.398e+04 / 88
p0 83.56 ± 0.0637
120
110
100
90
80
70

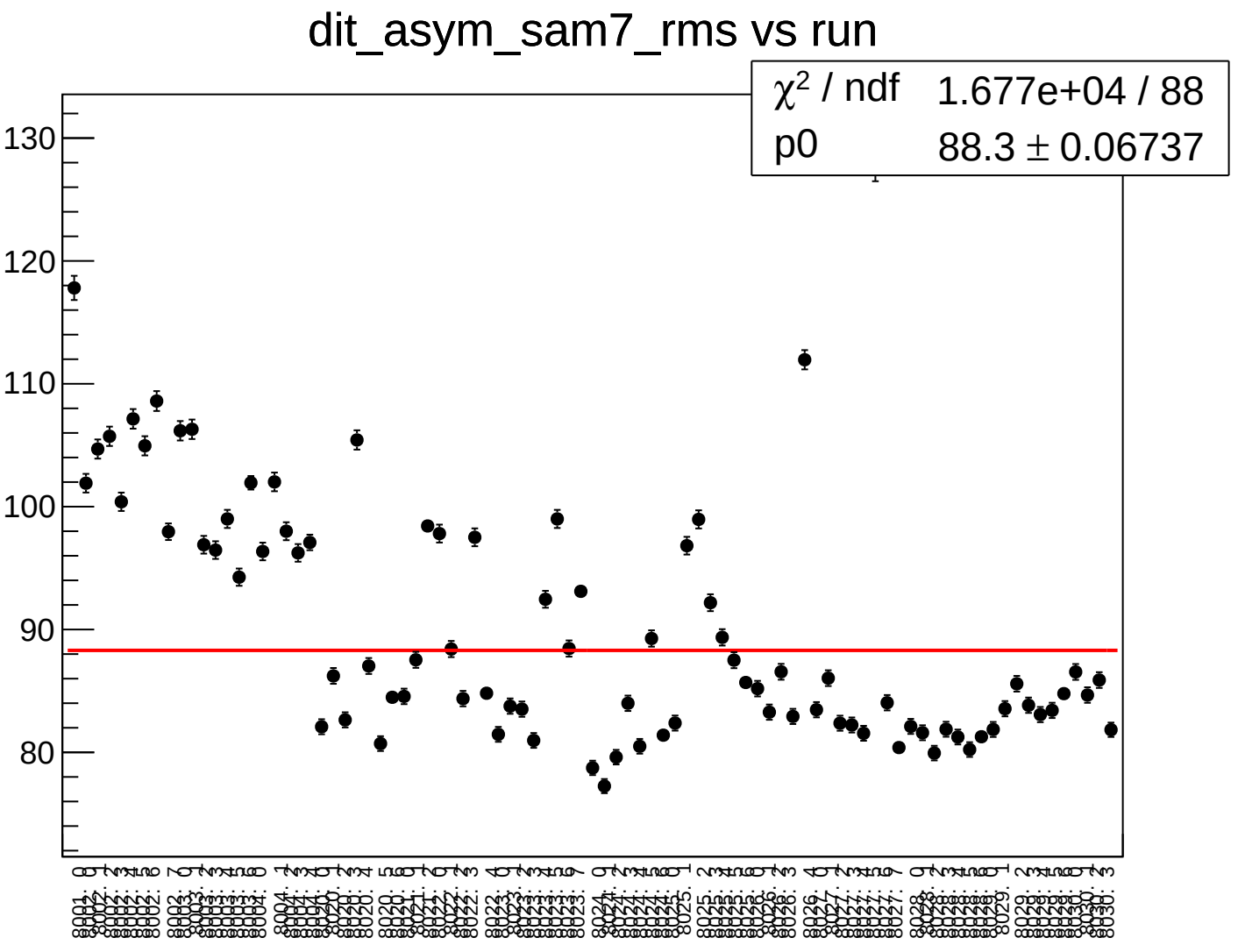

asym_sam7_eigen_cor_correction_mean vs run
χ² / ndf 89.38 / 88
p0 203.6 ± 798.3
pull
Entries 89
Mean 170.9
Std Dev 0

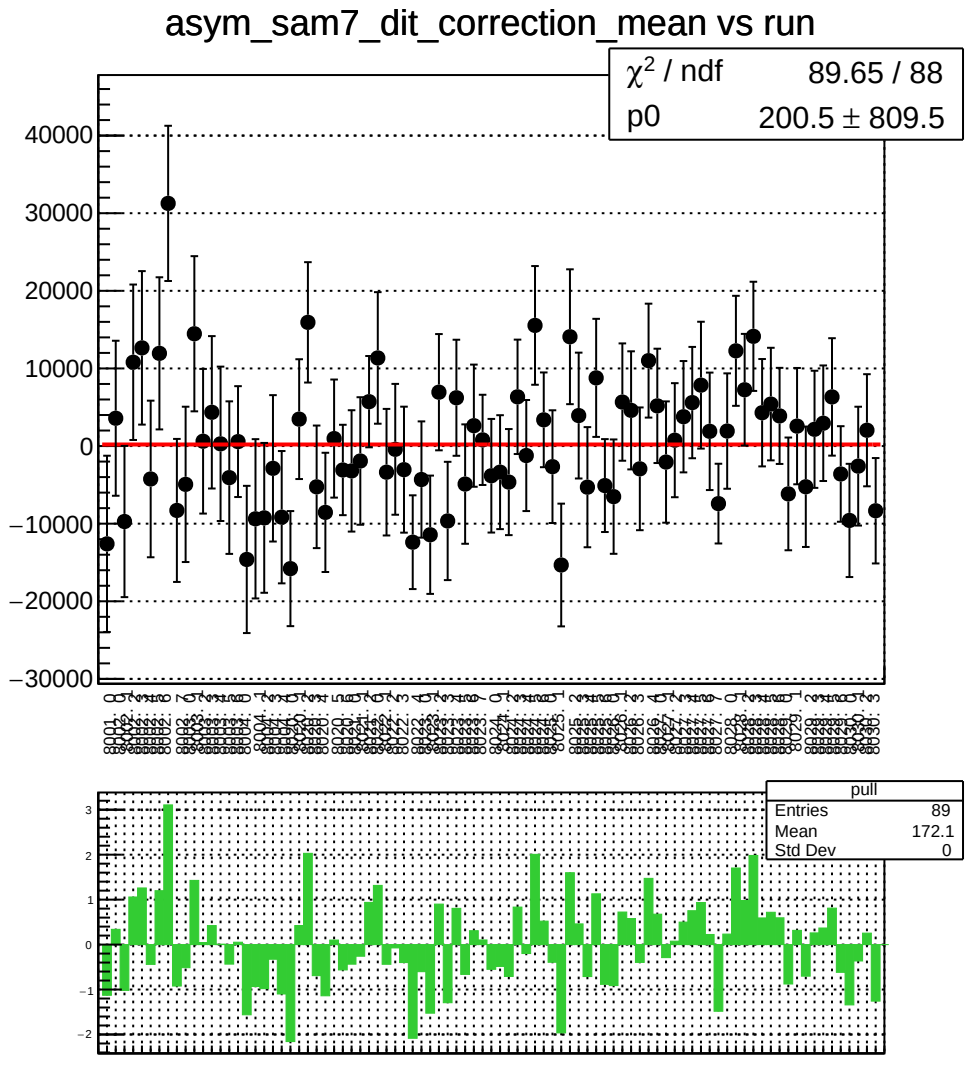

pull1D
Entries 89
Mean 0.01456
Std Dev 1.002

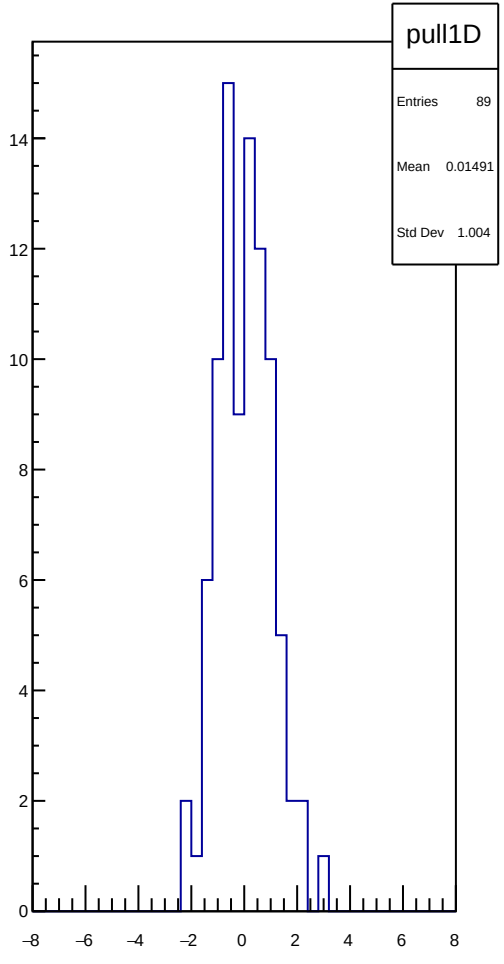

asym_sam7_eigen_cor_correction_rms vs run
χ² / ndf 1.987e+04 / 88
p0 739.2 ± 0.5645
1000
950
900
850
800
750
700
650
600

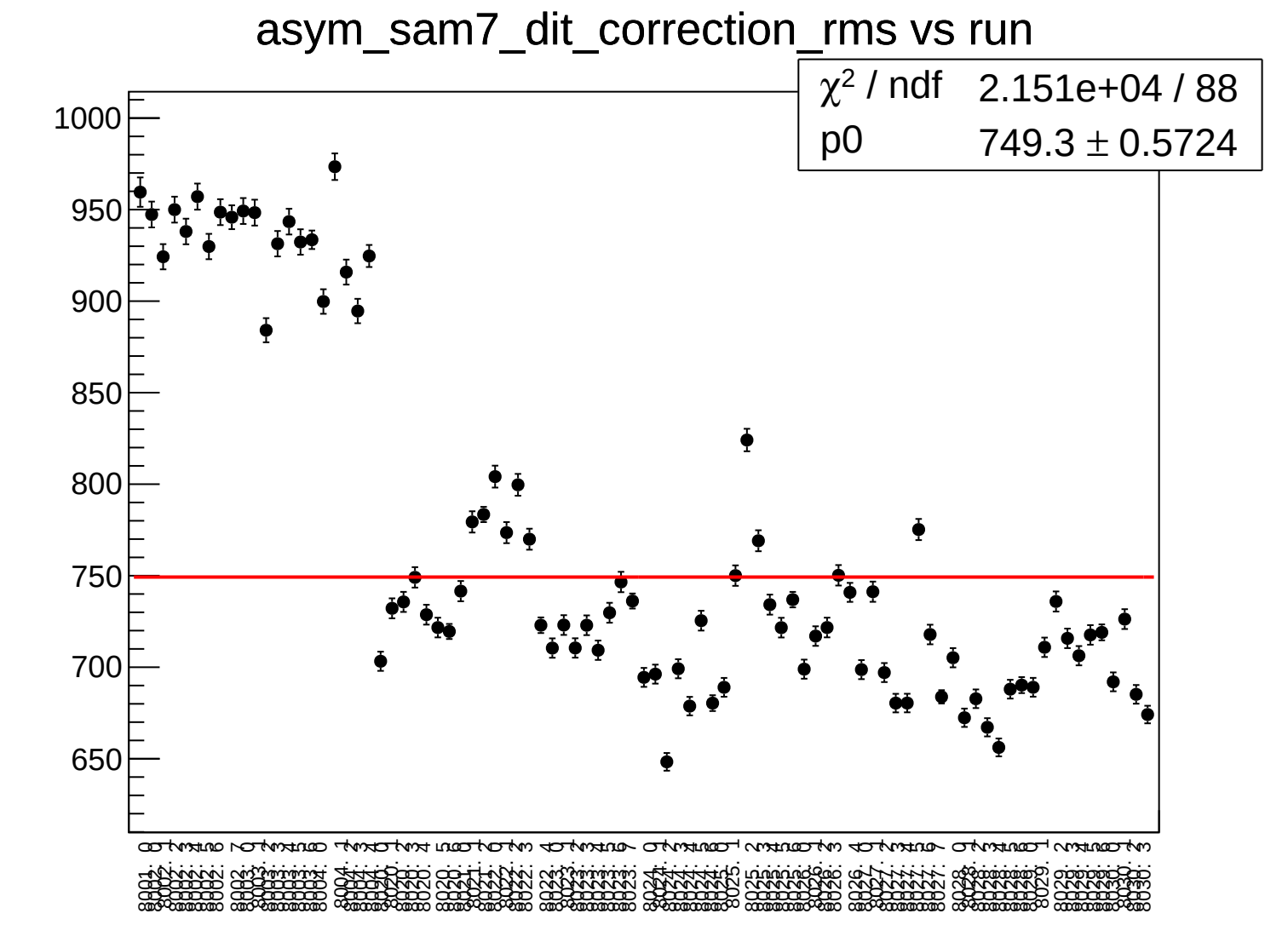

dit_asym_sam7_mean vs run
χ^2 / ndf 68.23 / 88
p0 22.44 ± 95.27
pull
Entries 89
Mean 936.4
Std Dev 0

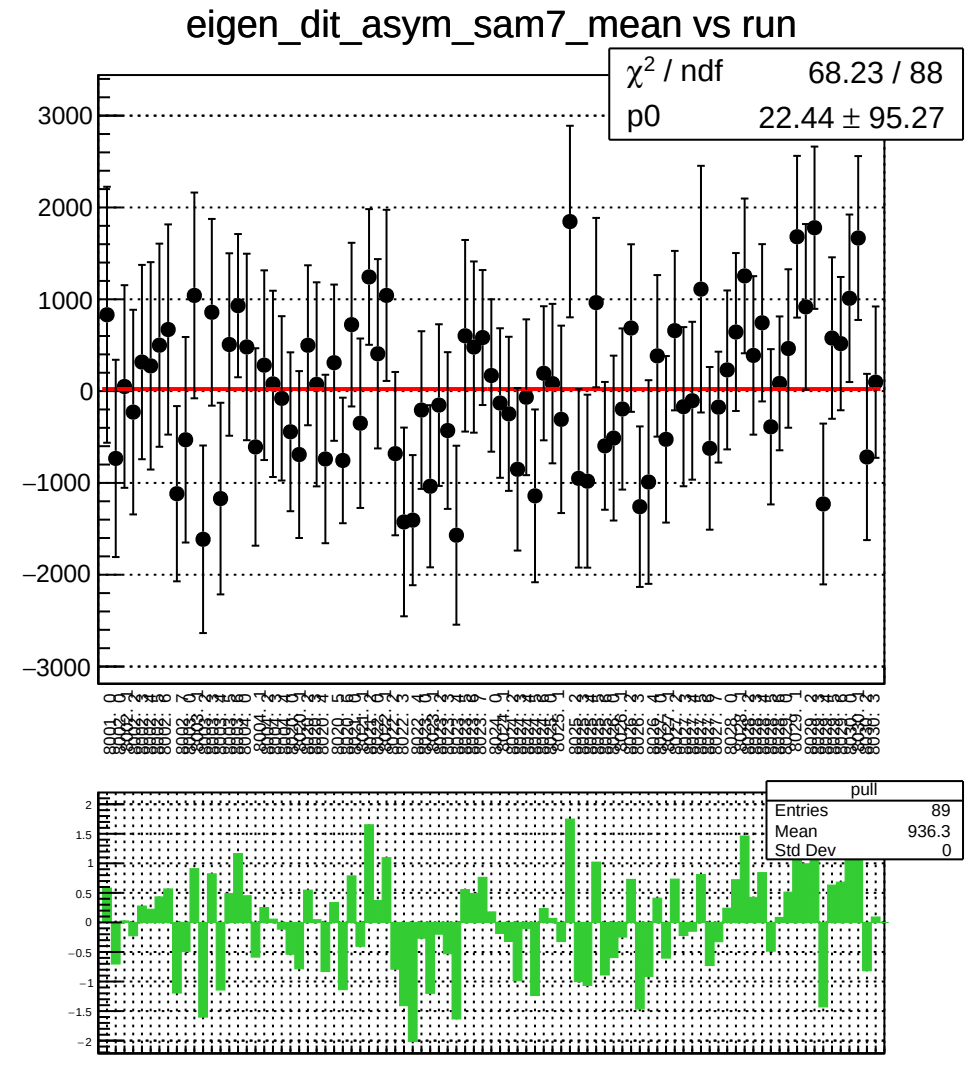

pull1D
Entries 89
Mean 0.004626
Std Dev 0.8755

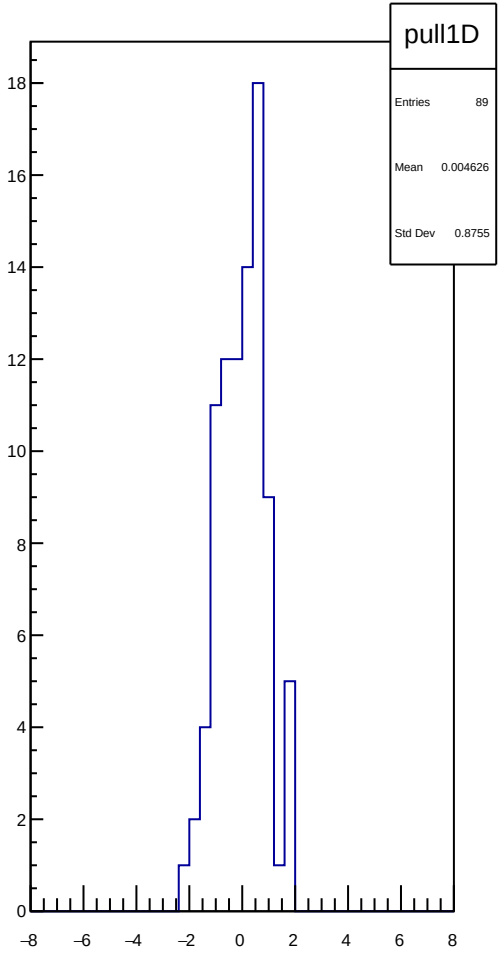

dit_asym_sam7_rms vs run
χ² / ndf 1.677e+04 / 88
p0 88.3 ± 0.06737
130
120
110
100
90
80

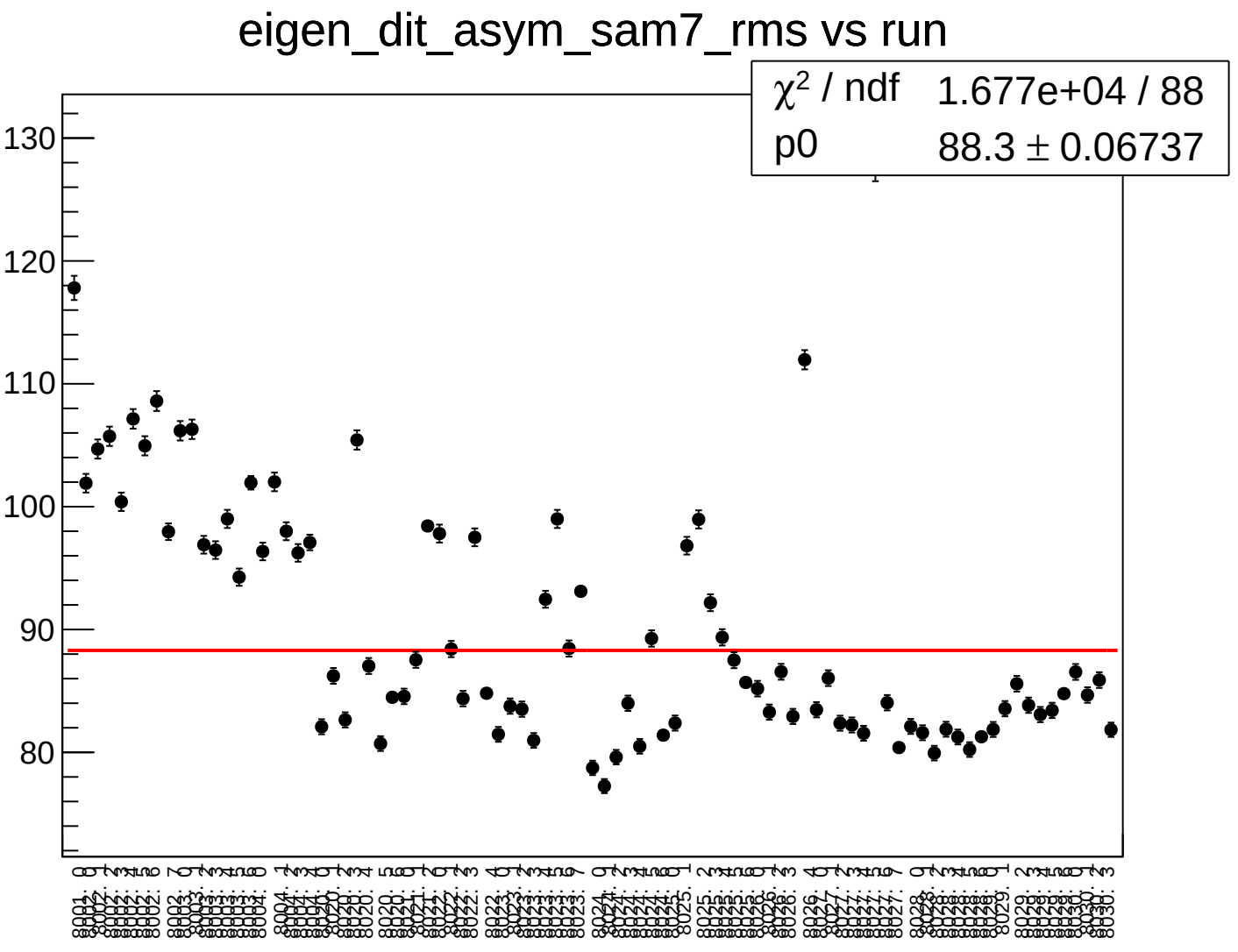

asym_sam7_dit_correction_mean vs run
χ² / ndf 89.65 / 88
p0 200.5 ± 809.5
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 172.1
Std Dev 0
3
2
1
0
−1
−2

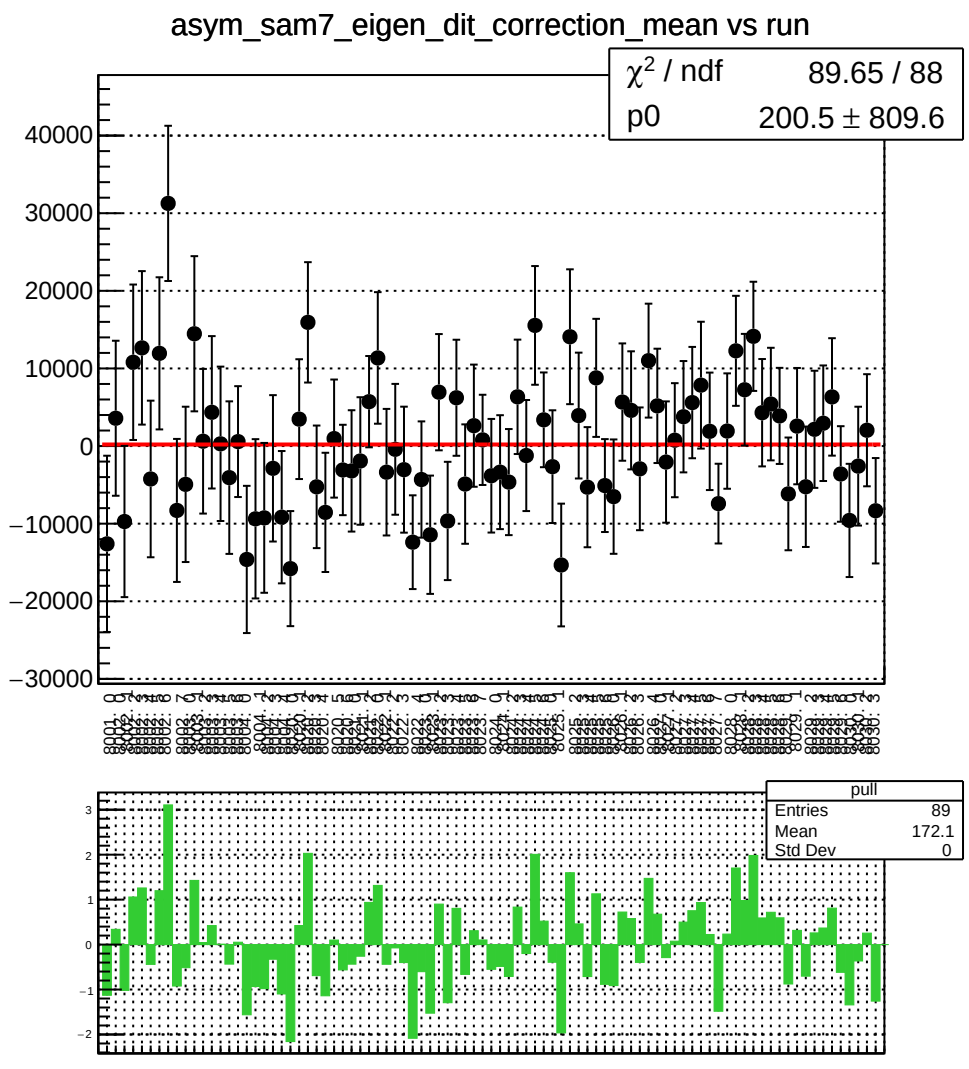

pull1D
Entries 89
Mean 0.01491
Std Dev 1.004
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

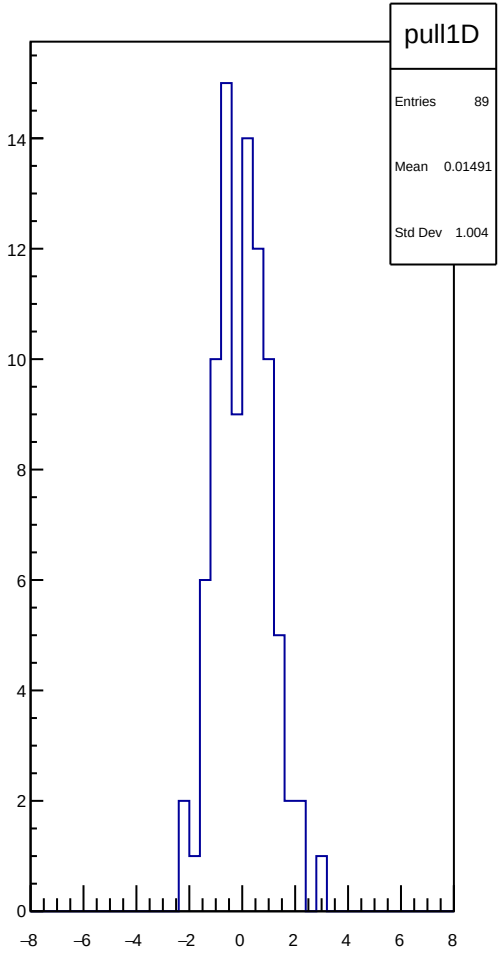

asym_sam7_dit_correction_rms vs run
χ² / ndf 2.151e+04 / 88
p0 749.3 ± 0.5724
1000
950
900
850
800
750
700
650

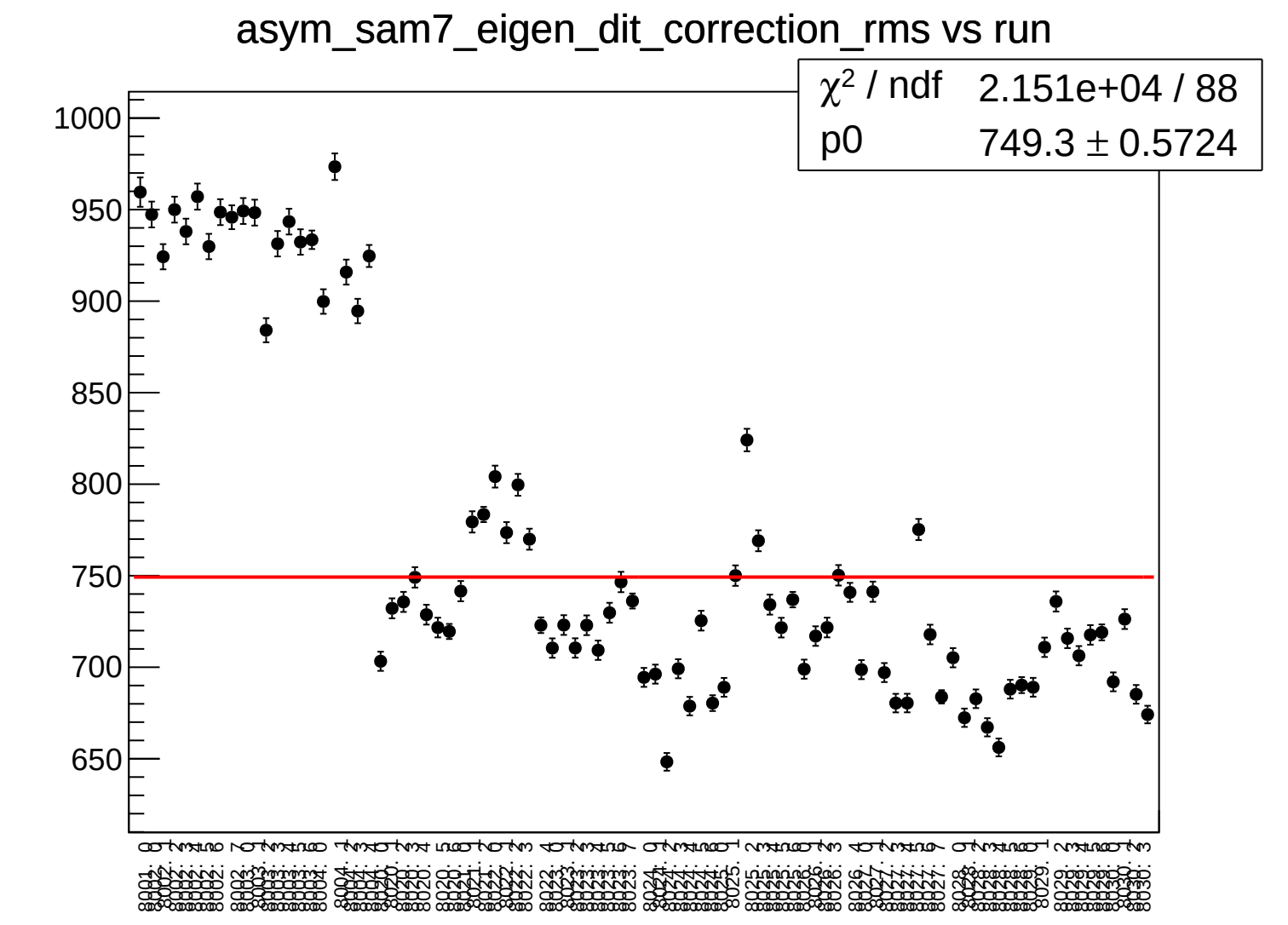

eigen_dit_asym_sam7_mean vs run
χ² / ndf 68.23 / 88
p0 22.44 ± 95.27
pull
Entries 89
Mean 936.3
Std Dev 0

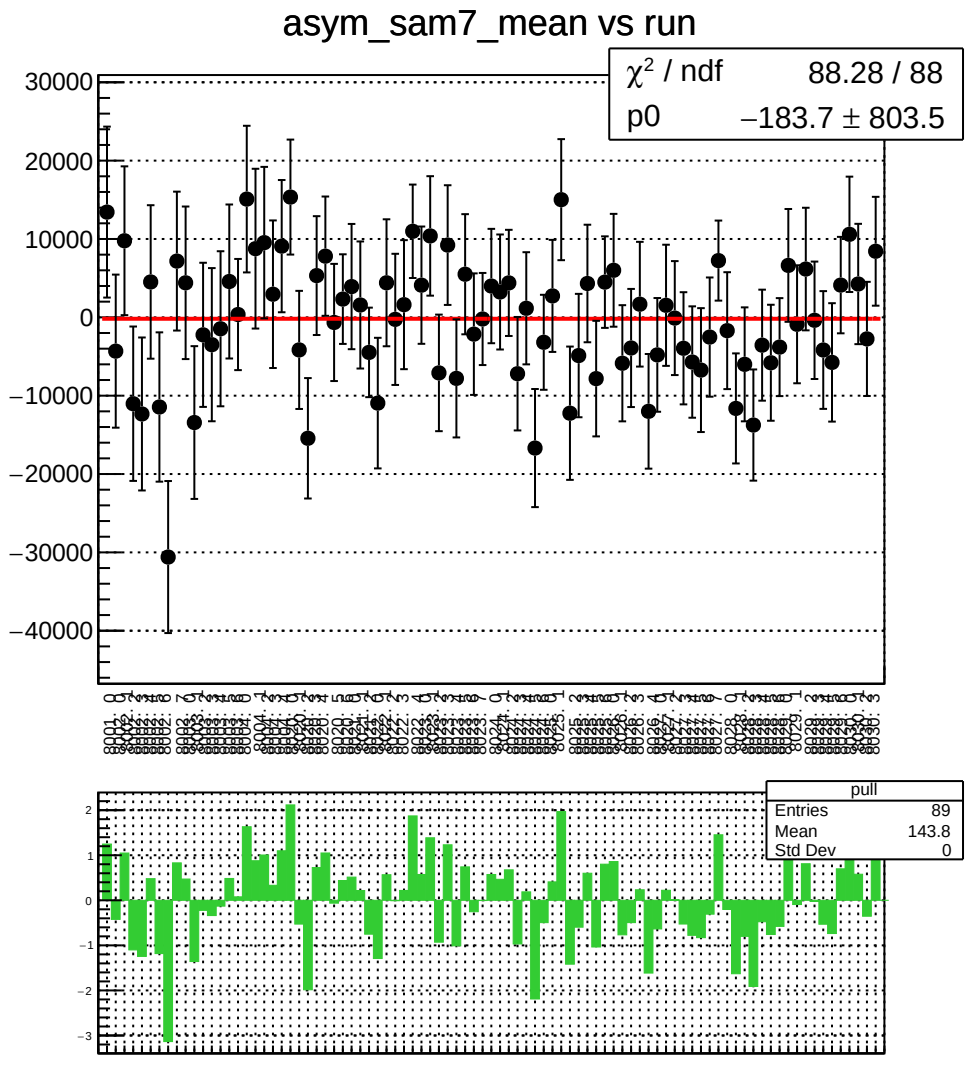

pull1D
Entries 89
Mean 0.004626
Std Dev 0.8755

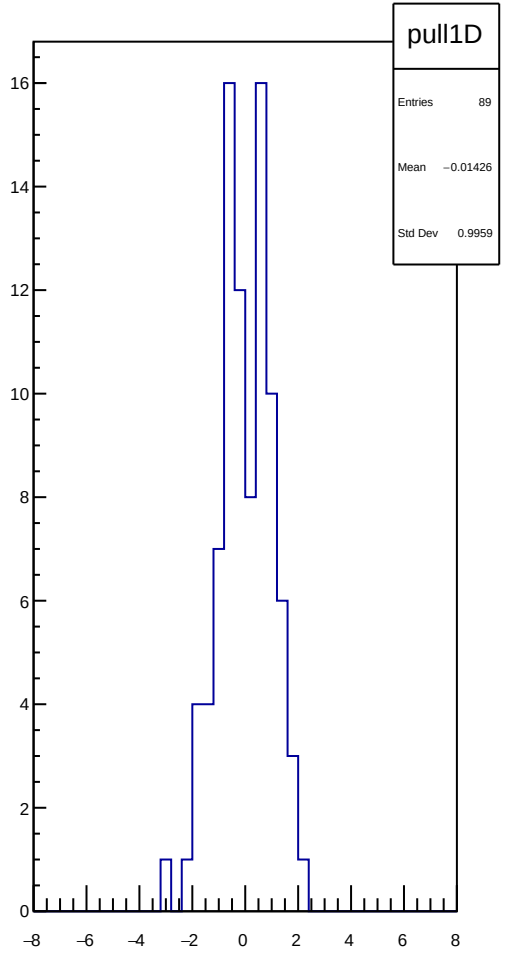

eigen_dit_asym_sam7_rms vs run
χ² / ndf 1.677e+04 / 88
p0 88.3 ± 0.06737
130
120
110
100
90
80

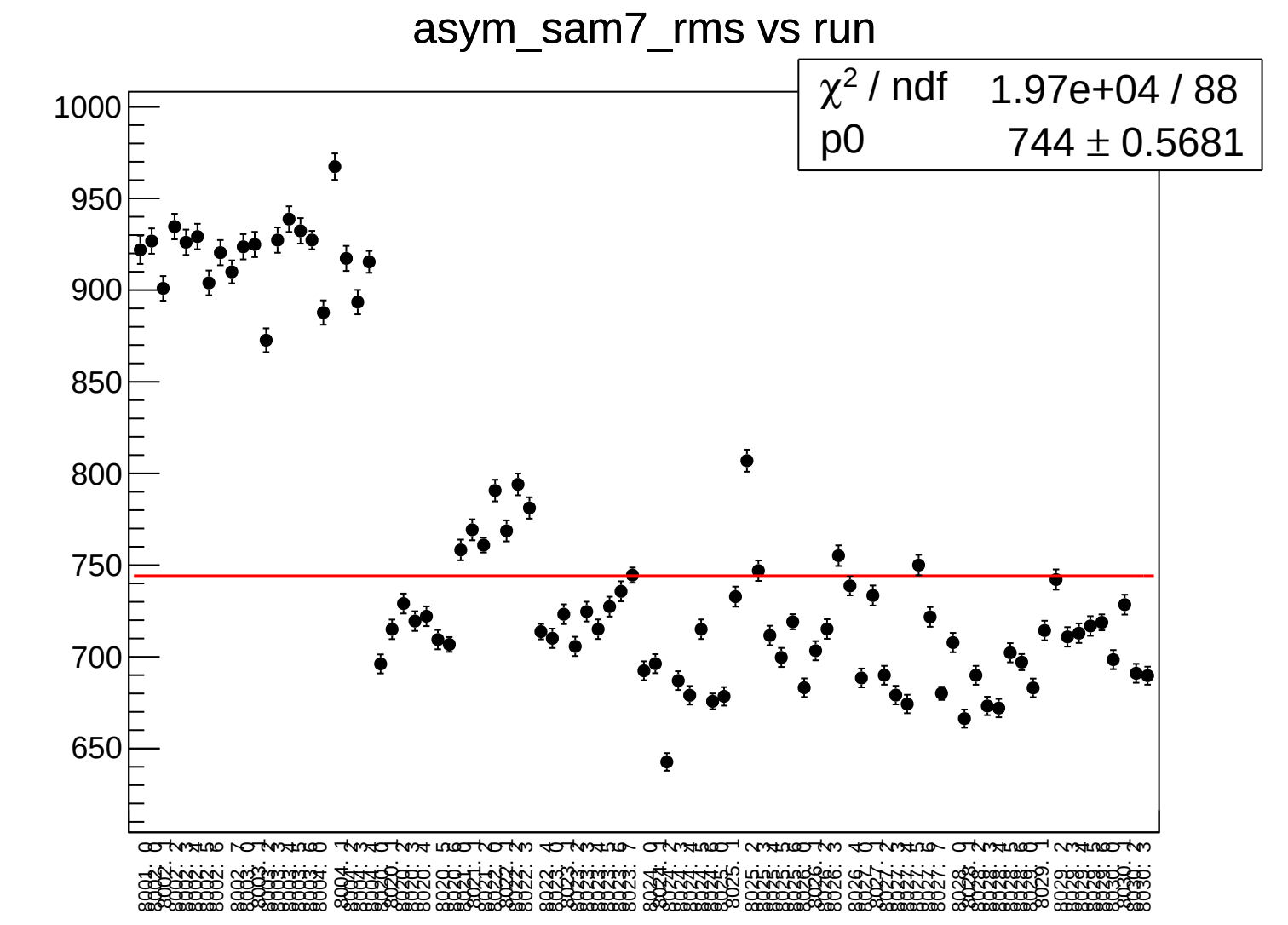

asym_sam7_eigen_dit_correction_mean vs run
χ² / ndf 89.65 / 88
p0 200.5 ± 809.6
pull
Entries 89
Mean 172.1
Std Dev 0

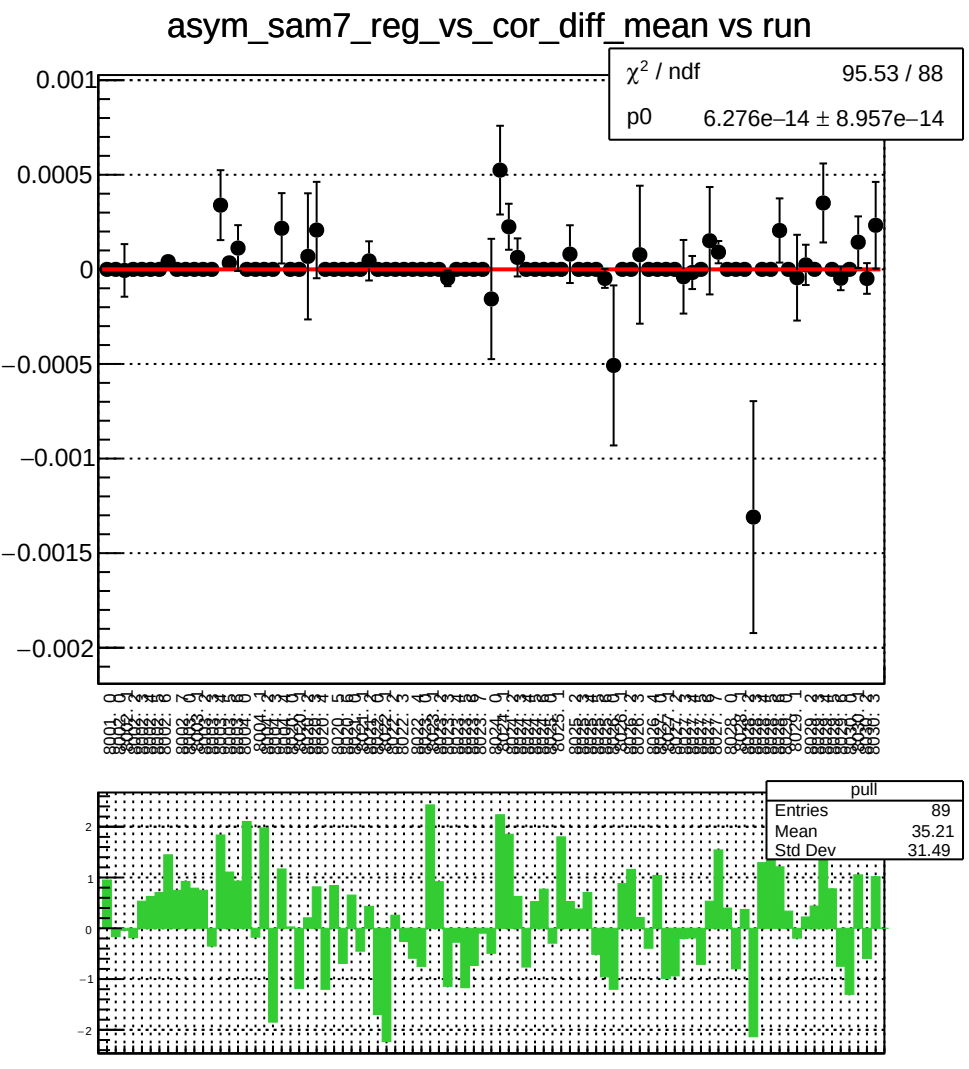

pull1D
Entries 89
Mean 0.01491
Std Dev 1.004

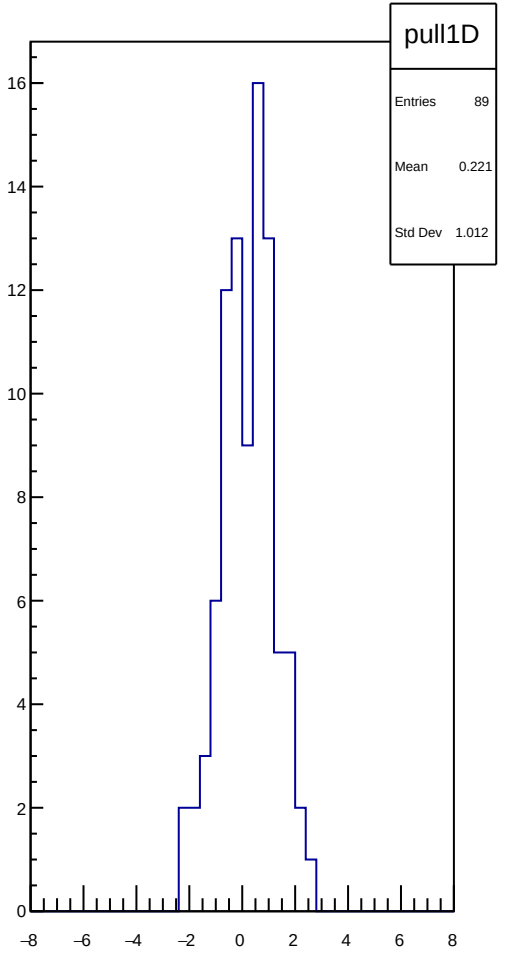

asym_sam7_eigen_dit_correction_rms vs run
χ² / ndf 2.151e+04 / 88
p0 749.3 ± 0.5724
1000
950
900
850
800
750
700
650

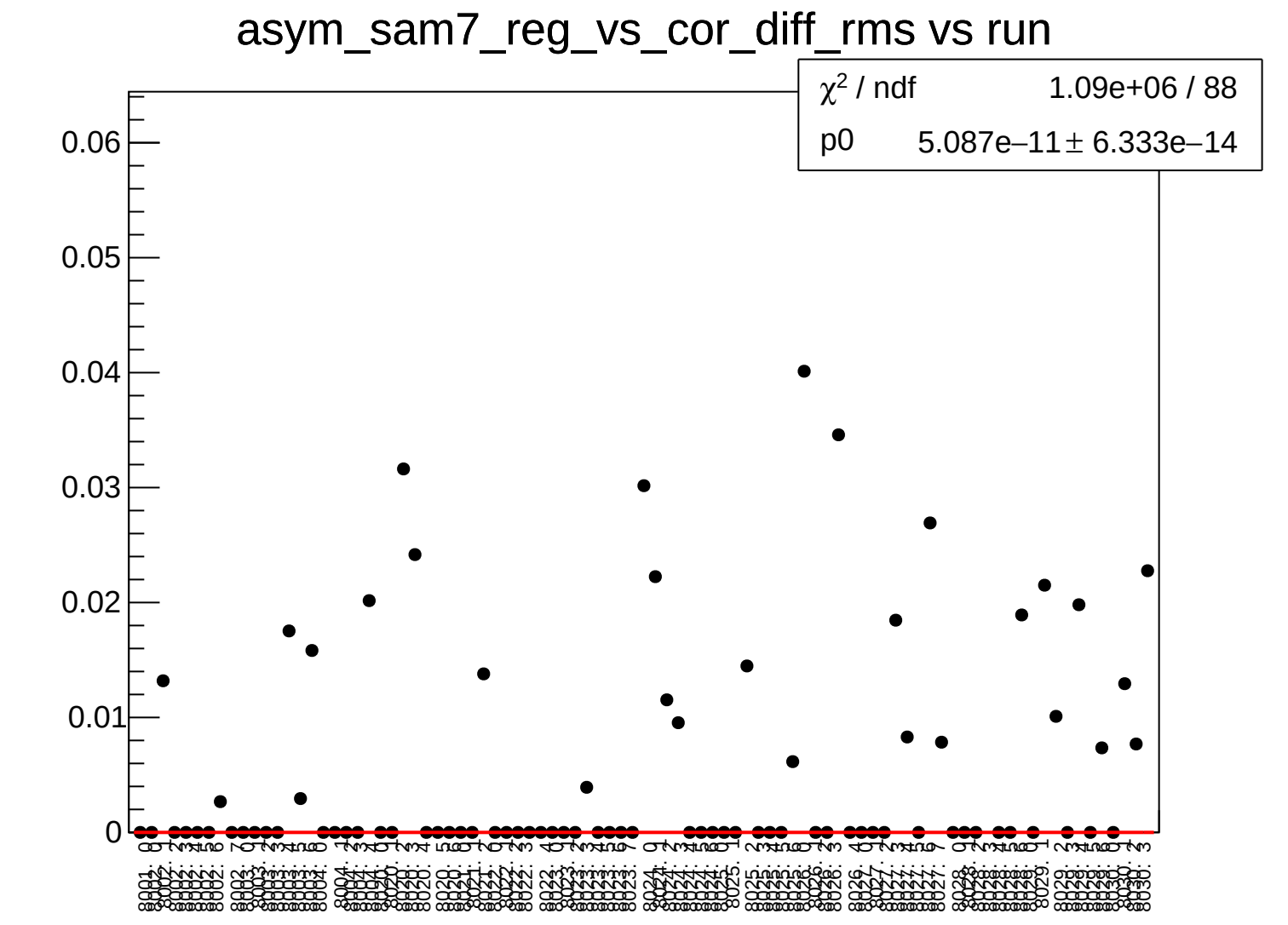

asym_sam7_mean vs run
χ² / ndf 88.28 / 88
p0 −183.7 ± 803.5
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean 143.8
Std Dev 0
2
1
0
−1
−2
−3

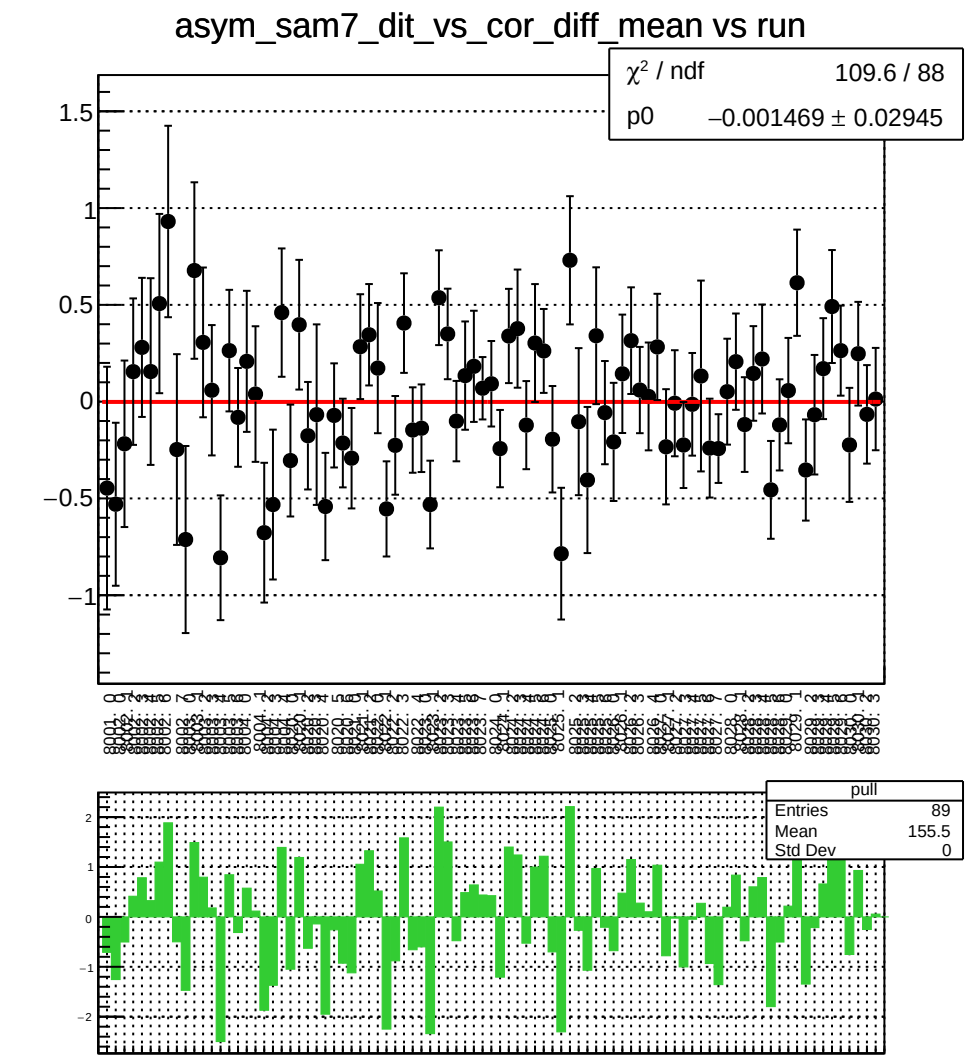

pull1D
Entries 89
Mean −0.01426
Std Dev 0.9959
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

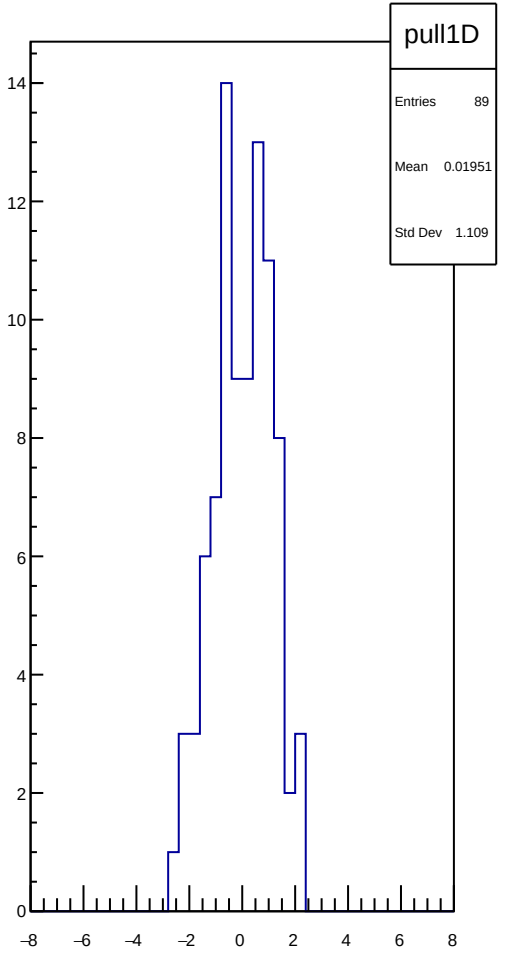

asym_sam7_rms vs run
χ² / ndf 1.97e+04 / 88
p0 744 ± 0.5681
1000
950
900
850
800
750
700
650

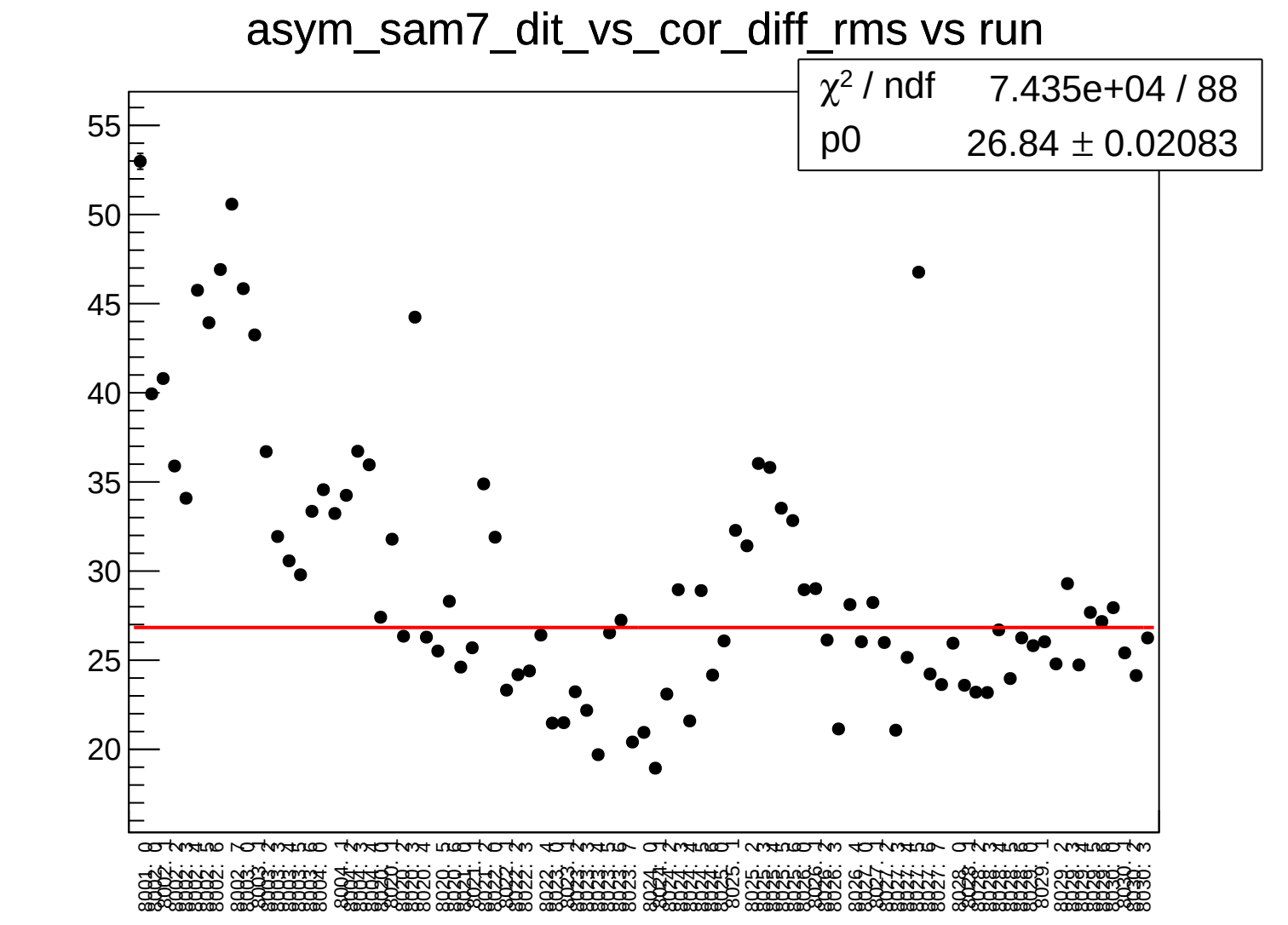

asym_sam7_reg_vs_cor_diff_mean vs run
χ² / ndf 95.53 / 88
p0 6.276e−14 ± 8.957e−14
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 89
Mean 35.21
Std Dev 31.49
2
1
0
−1
−2

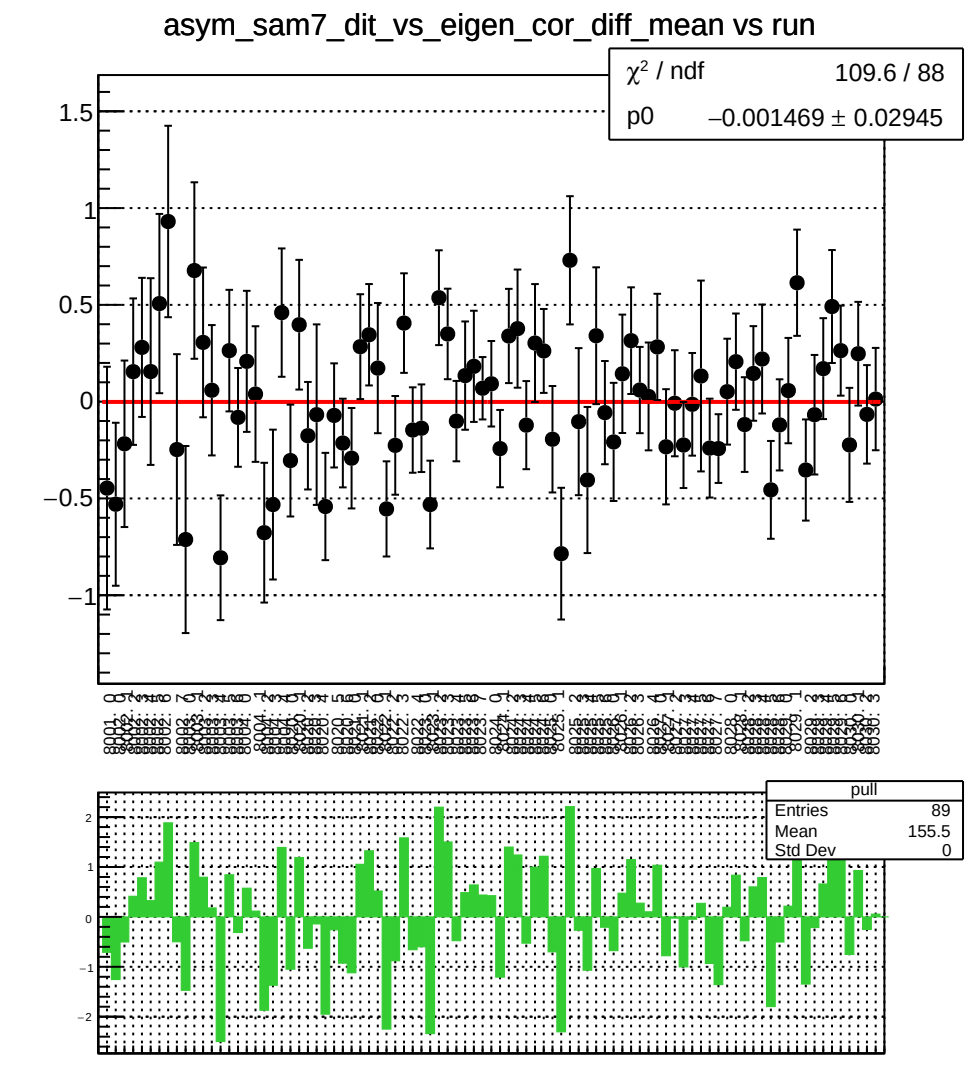

pull1D
Entries 89
Mean 0.221
Std Dev 1.012
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

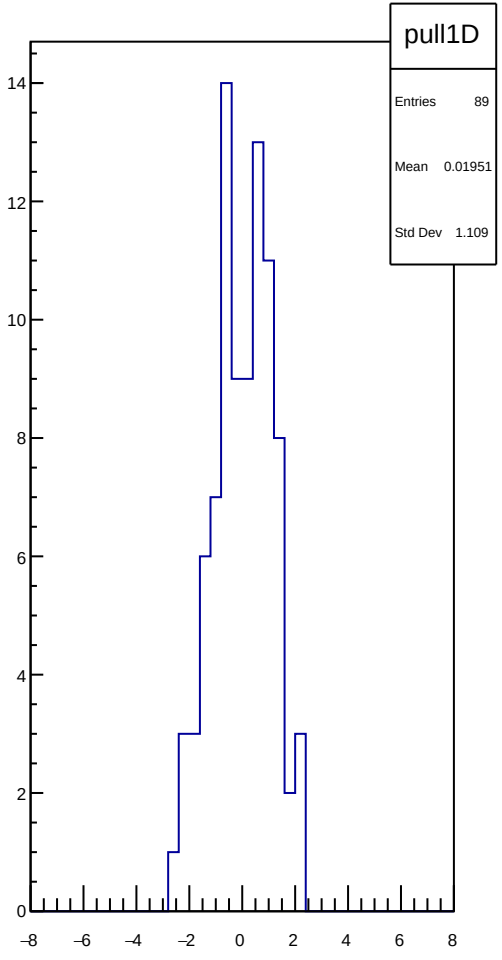

asym_sam7_reg_vs_cor_diff_rms vs run
χ² / ndf 1.09e+06 / 88
p0 5.087e−11 ± 6.333e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

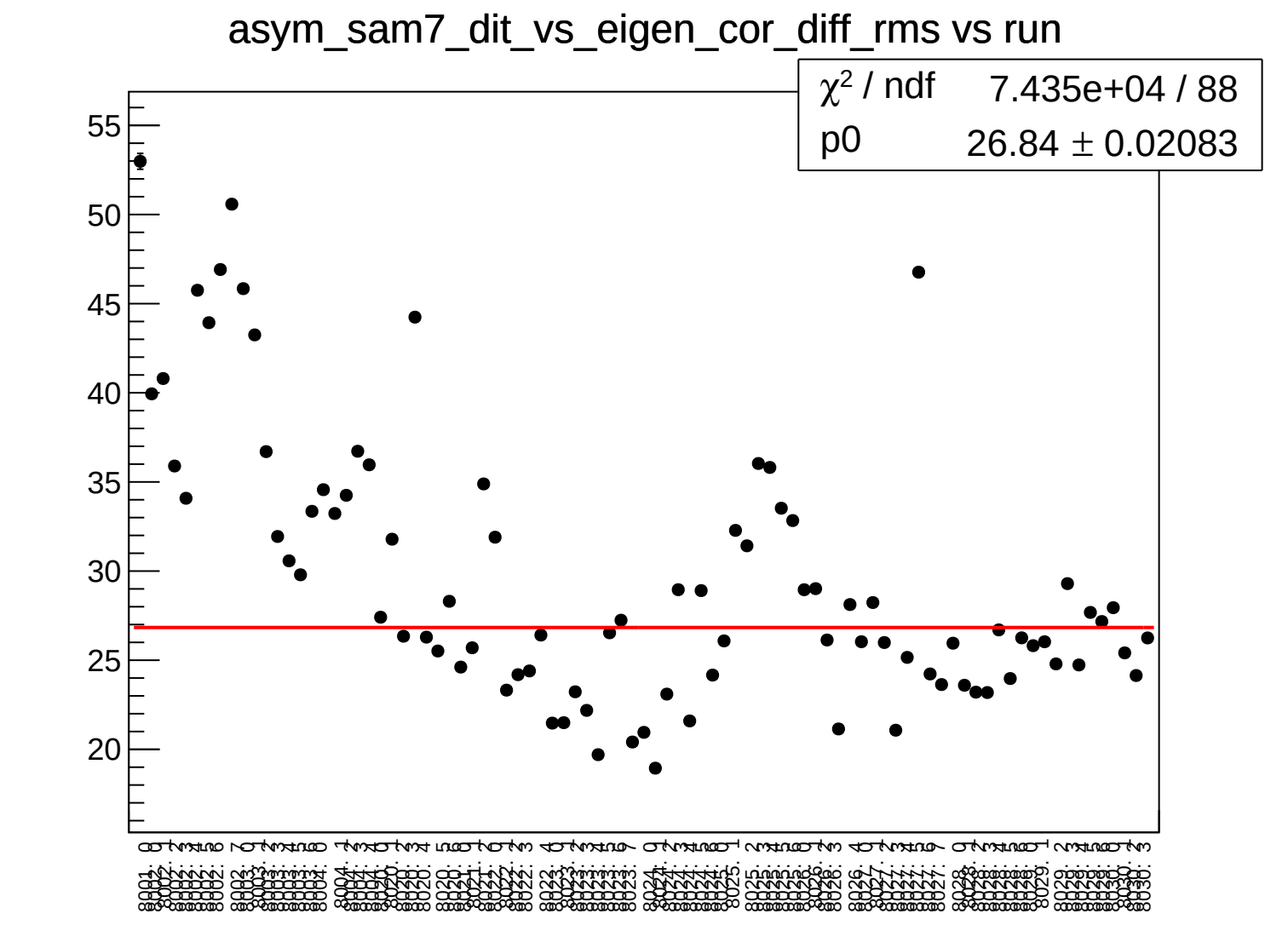

asym_sam7_dit_vs_cor_diff_mean vs run
χ² / ndf 109.6 / 88
p0 −0.001469 ± 0.02945
pull
Entries 89
Mean 155.5
Std Dev 0

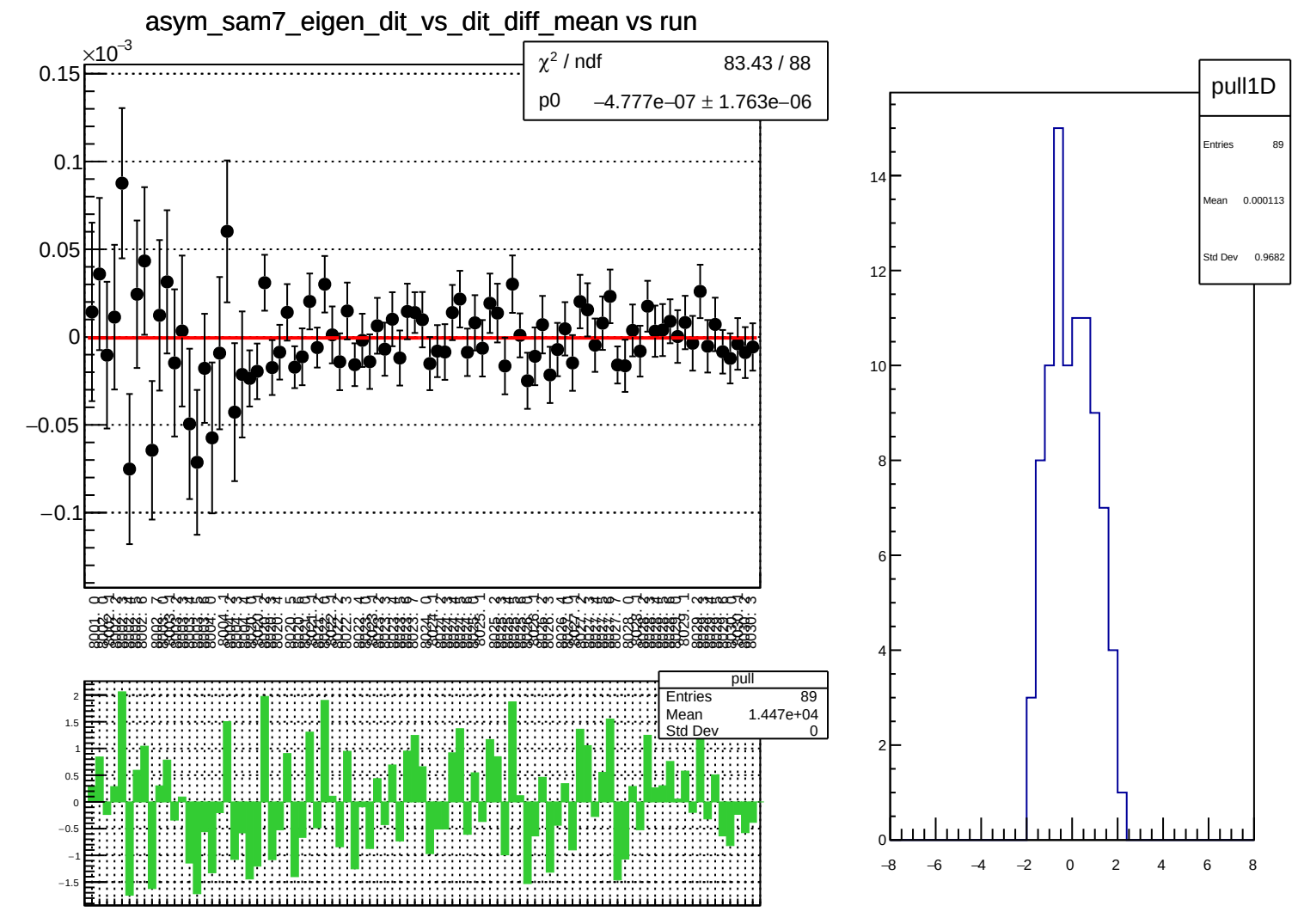

pull1D
Entries 89
Mean 0.01951
Std Dev 1.109

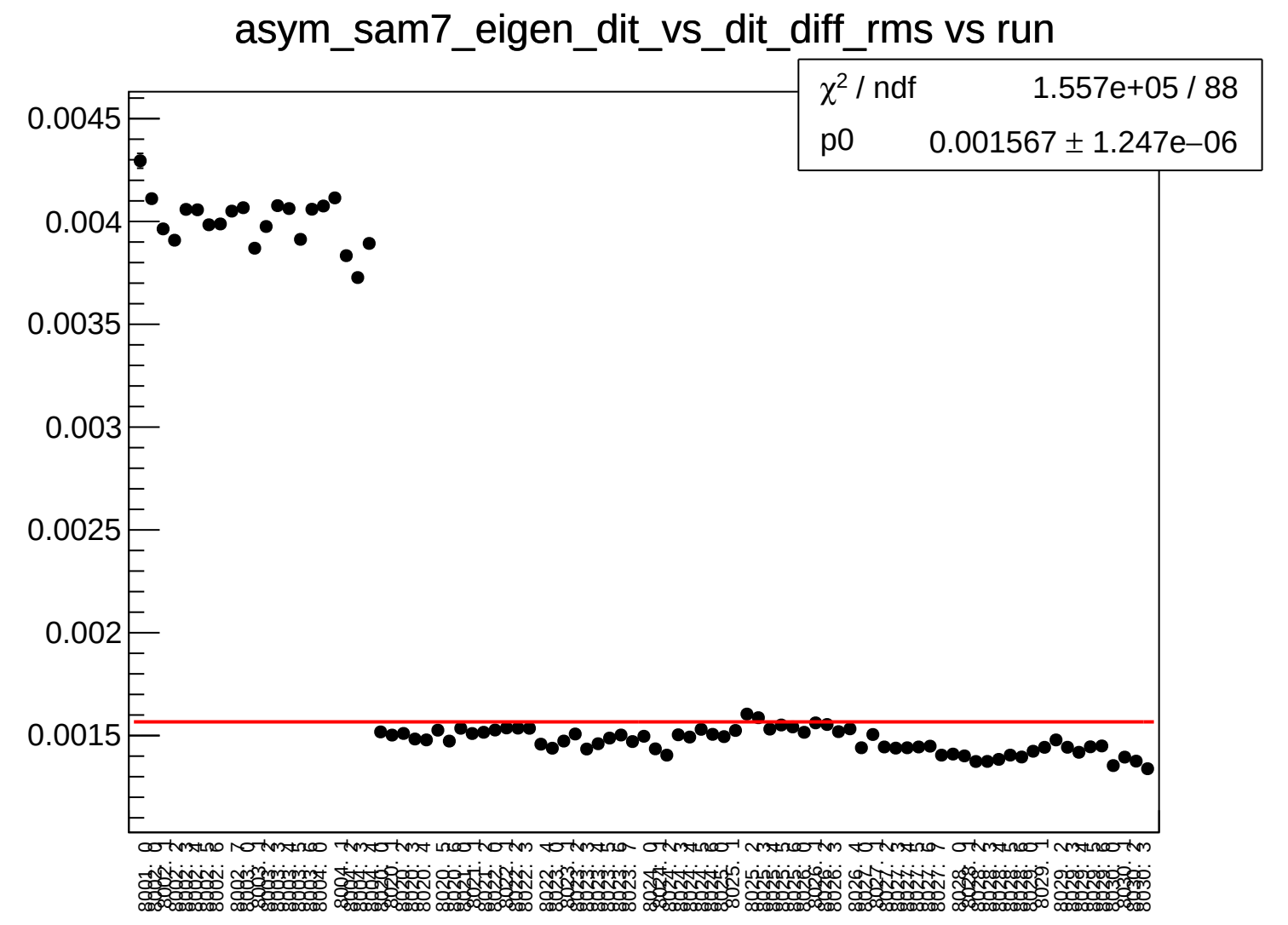

asym_sam7_dit_vs_cor_diff_rms vs run
χ² / ndf 7.435e+04 / 88
p0 26.84 ± 0.02083
55
50
45
40
35
30
25
20

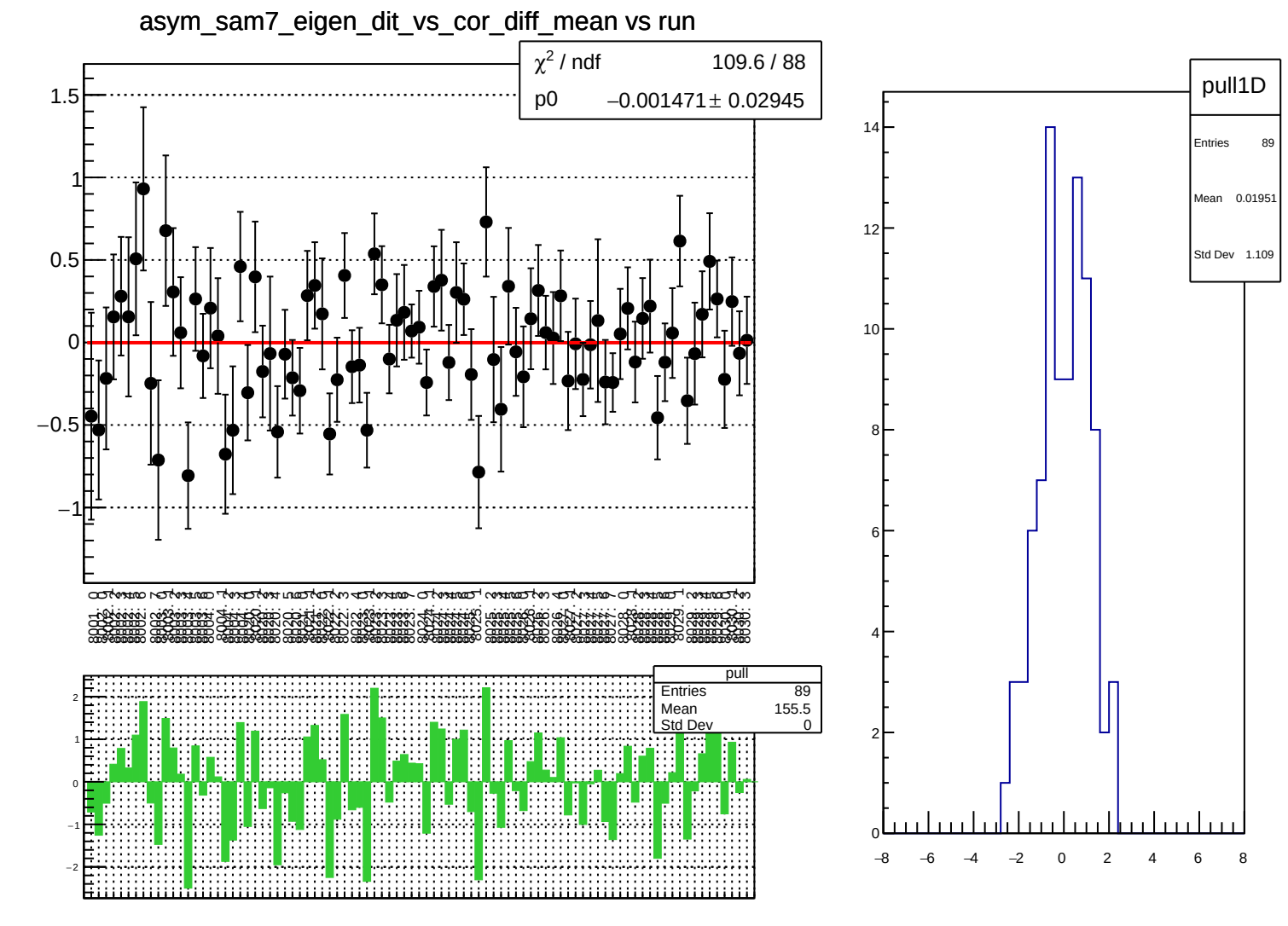

asym_sam7_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.6 / 88
p0 −0.001469 ± 0.02945
pull
Entries 89
Mean 155.5
Std Dev 0

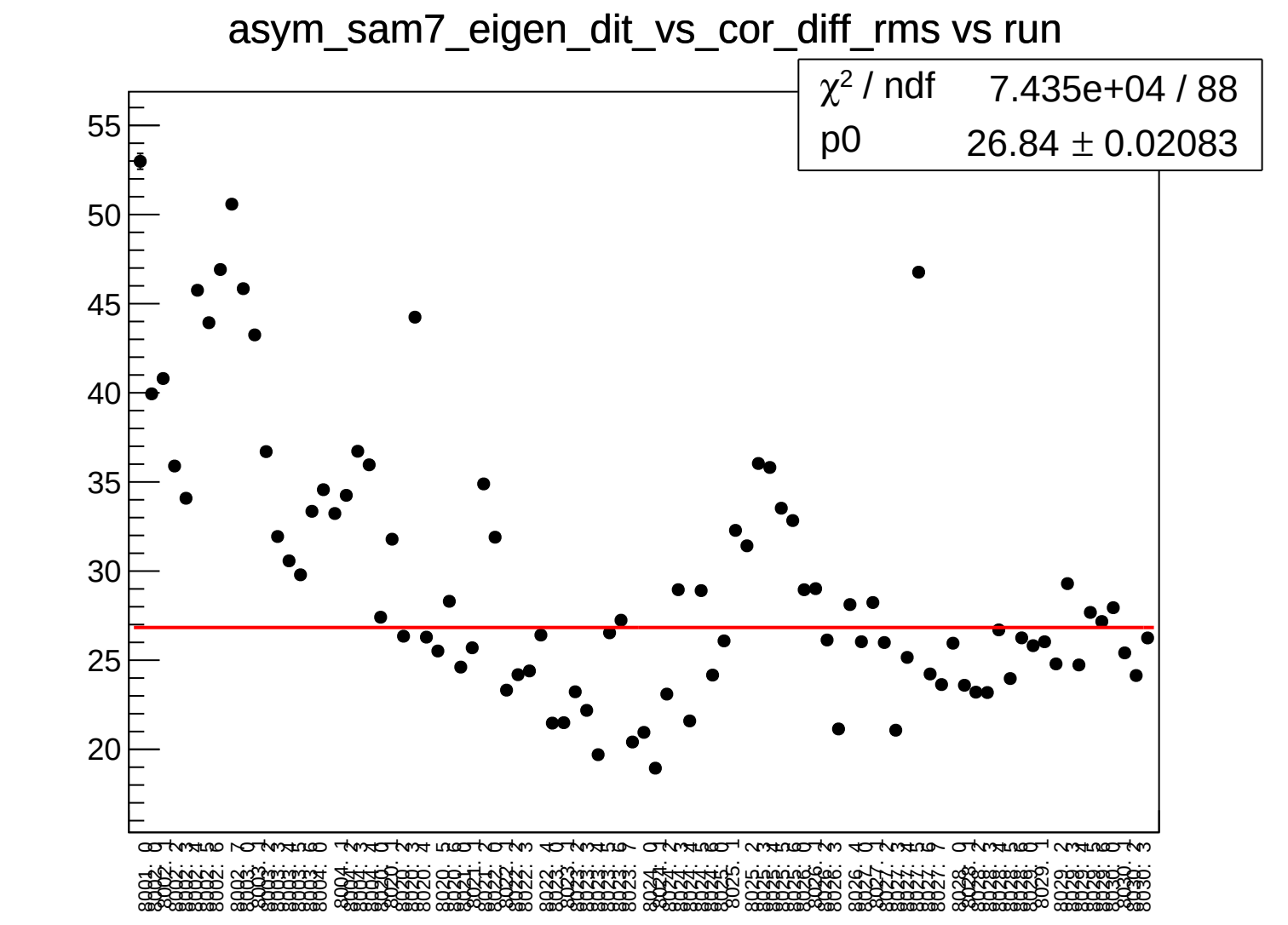

pull1D
Entries 89
Mean 0.01951
Std Dev 1.109

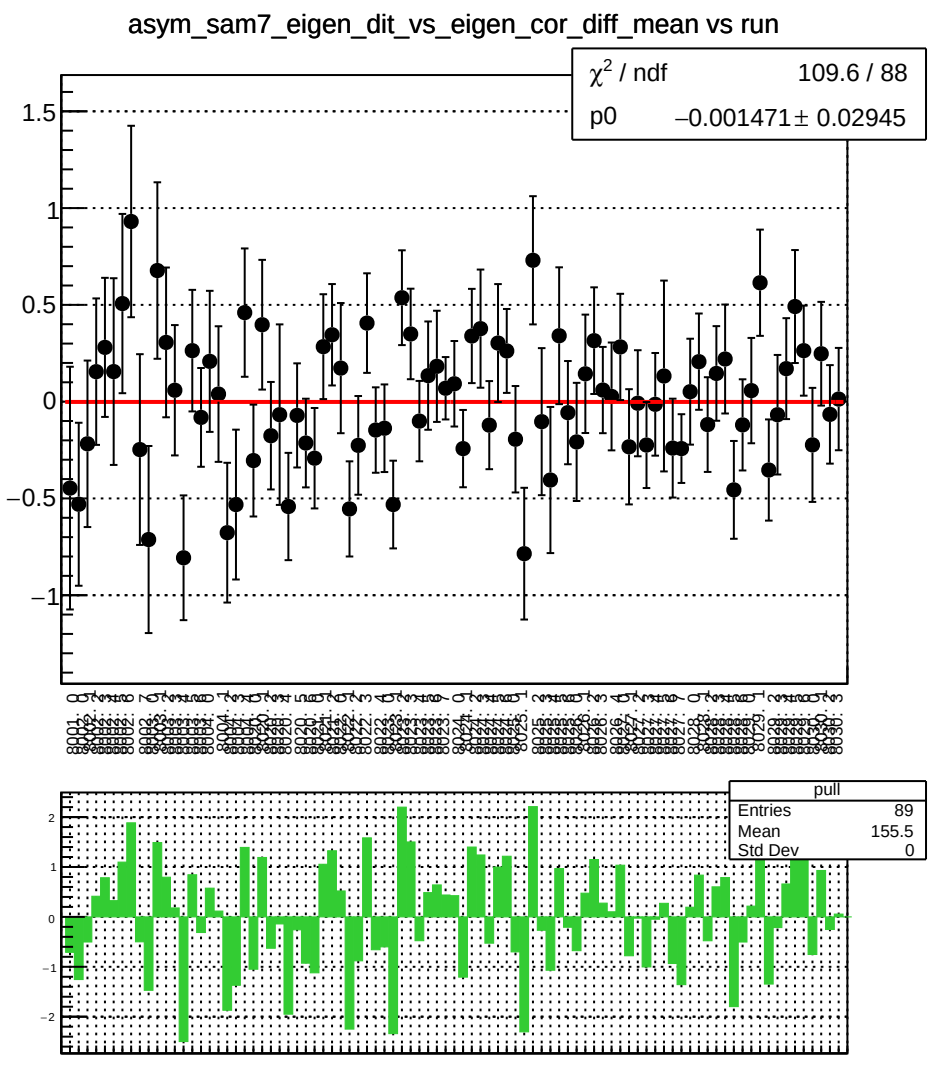

asym_sam7_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.435e+04 / 88
p0 26.84 ± 0.02083
55
50
45
40
35
30
25
20

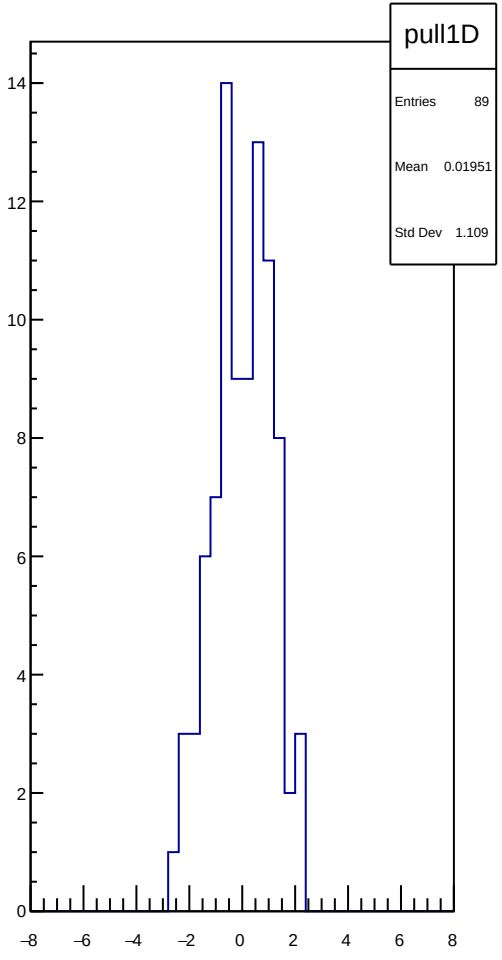

asym_sam7_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83.43 / 88
p0 −4.777e−07 ± 1.763e−06
pull
Entries 89
Mean 1.447e+04
Std Dev 0
pull1D
Entries 89
Mean 0.000113
Std Dev 0.9682

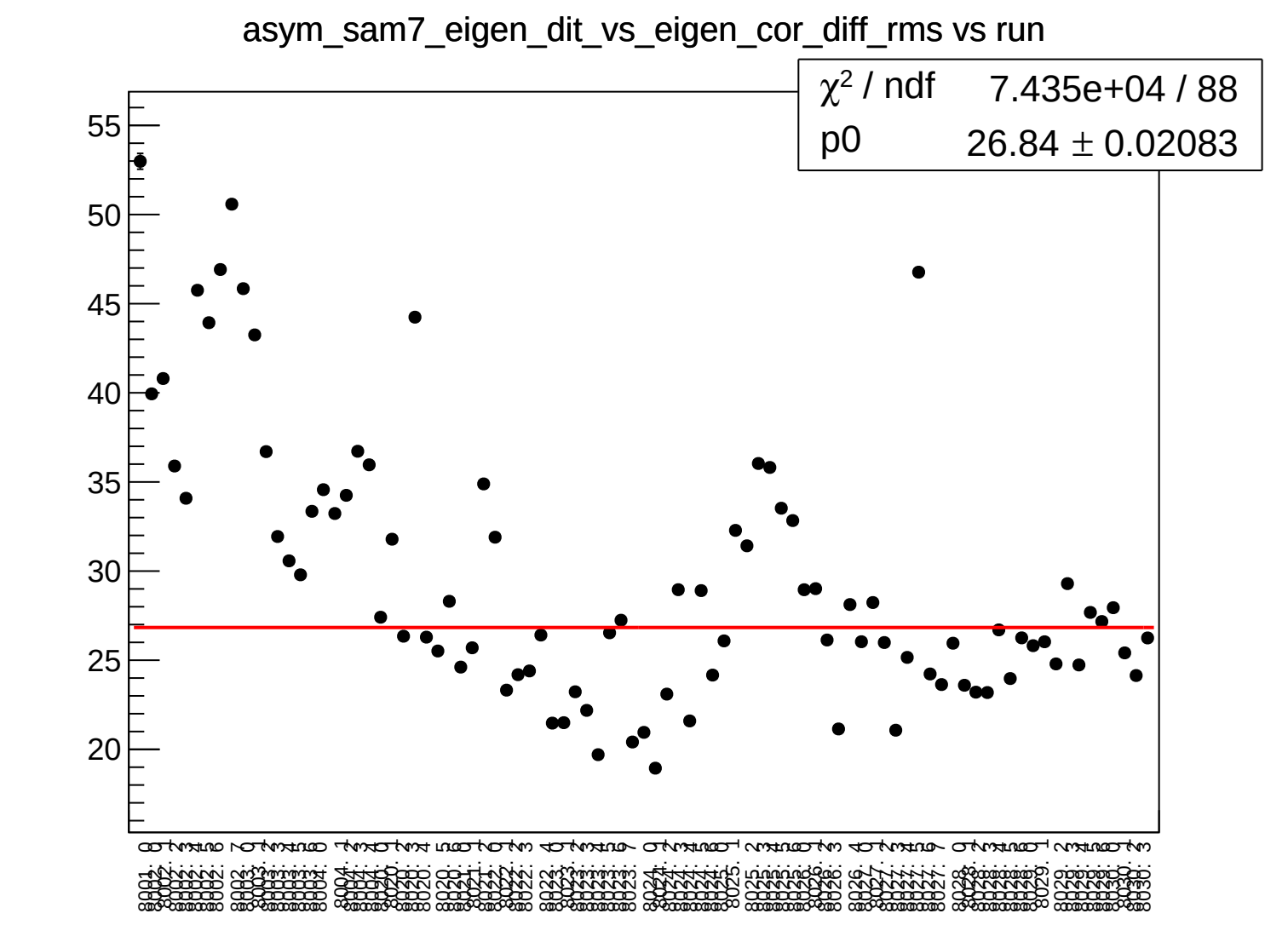

asym_sam7_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.557e+05 / 88
p0 0.001567 ± 1.247e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015

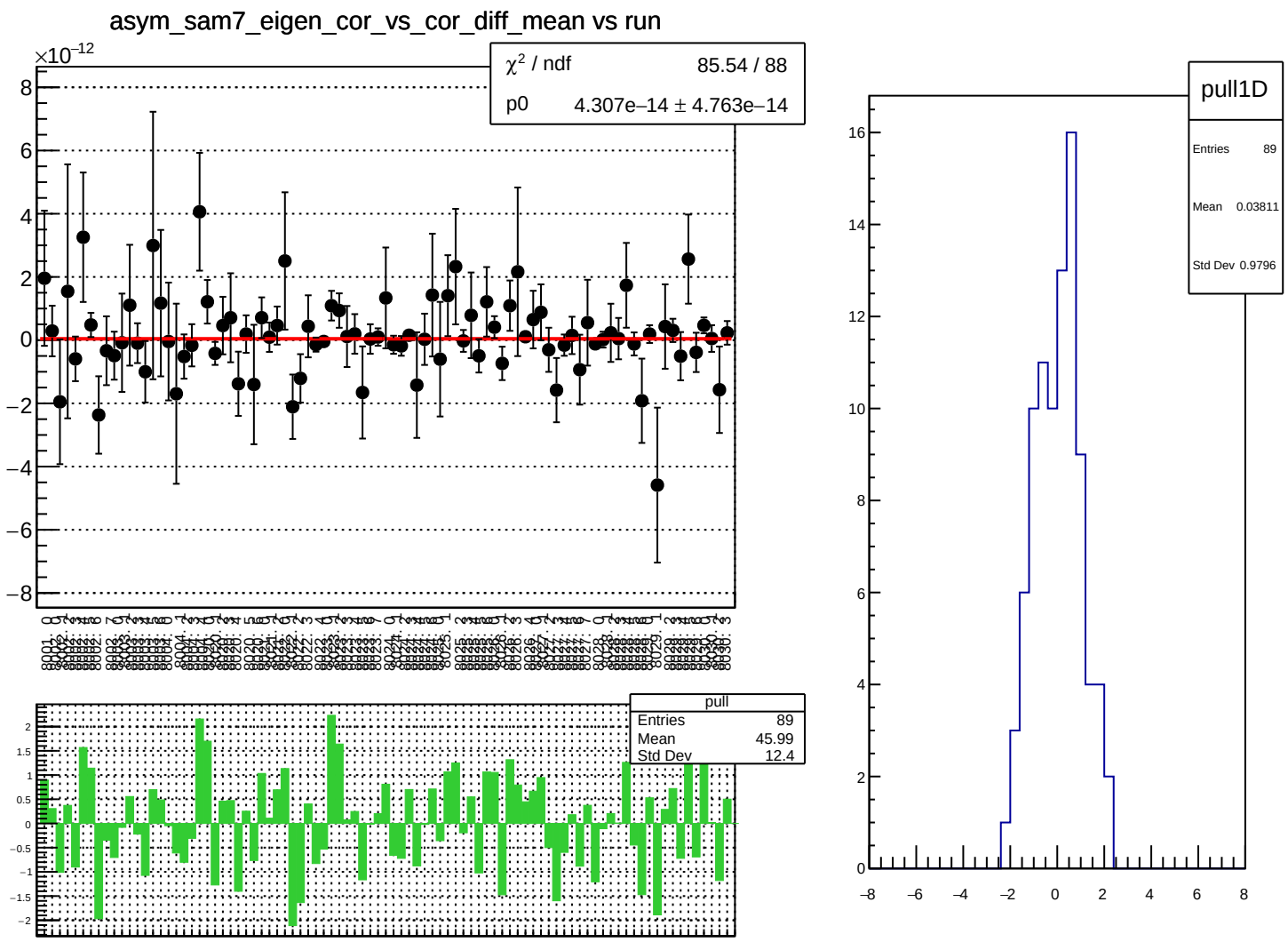

asym_sam7_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 109.6 / 88
p0 −0.001471 ± 0.02945
pull
Entries 89
Mean 155.5
Std Dev 0
pull1D
Entries 89
Mean 0.01951
Std Dev 1.109

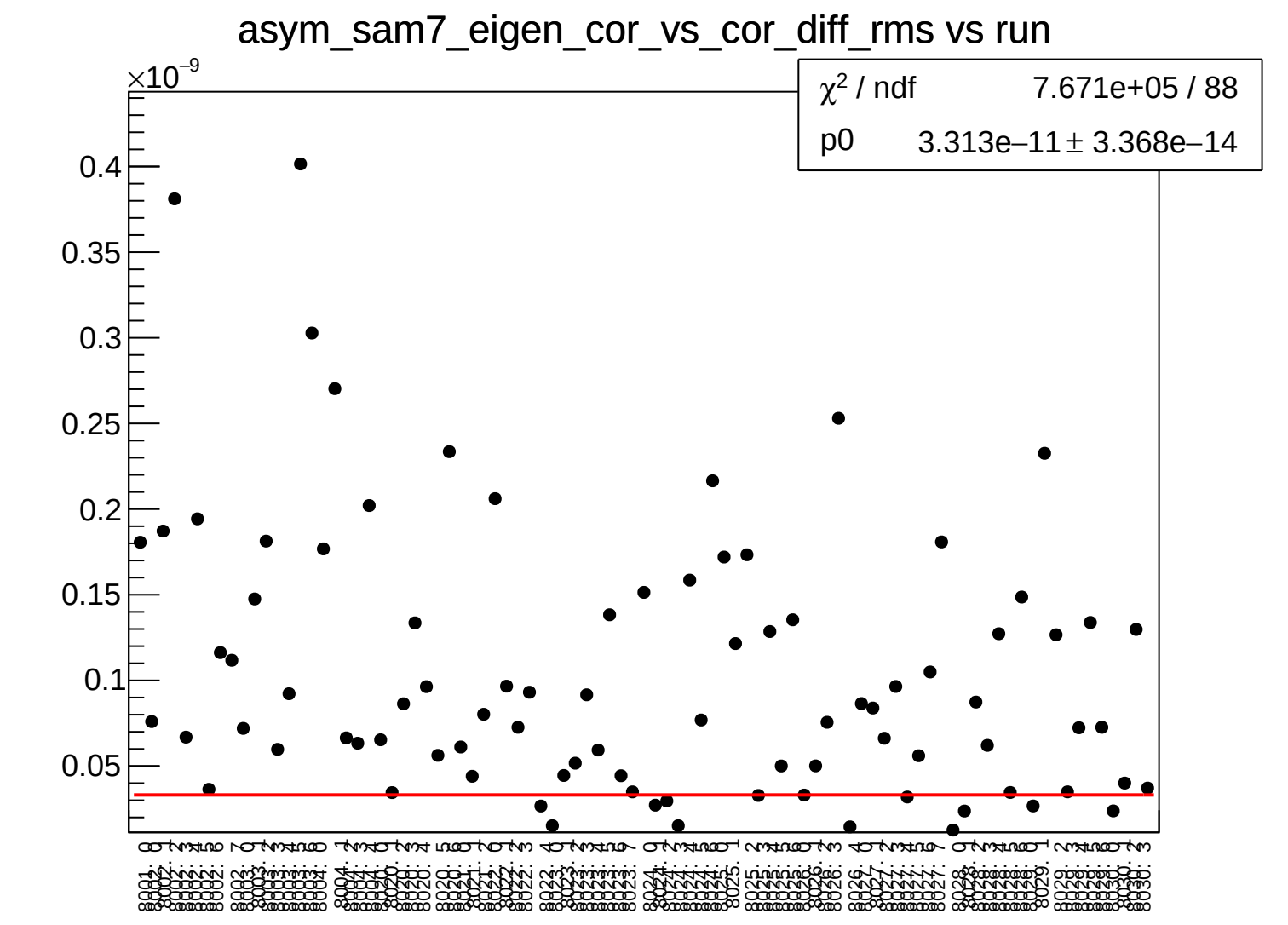

asym_sam7_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.435e+04 / 88
p0 26.84 ± 0.02083
55
50
45
40
35
30
25
20

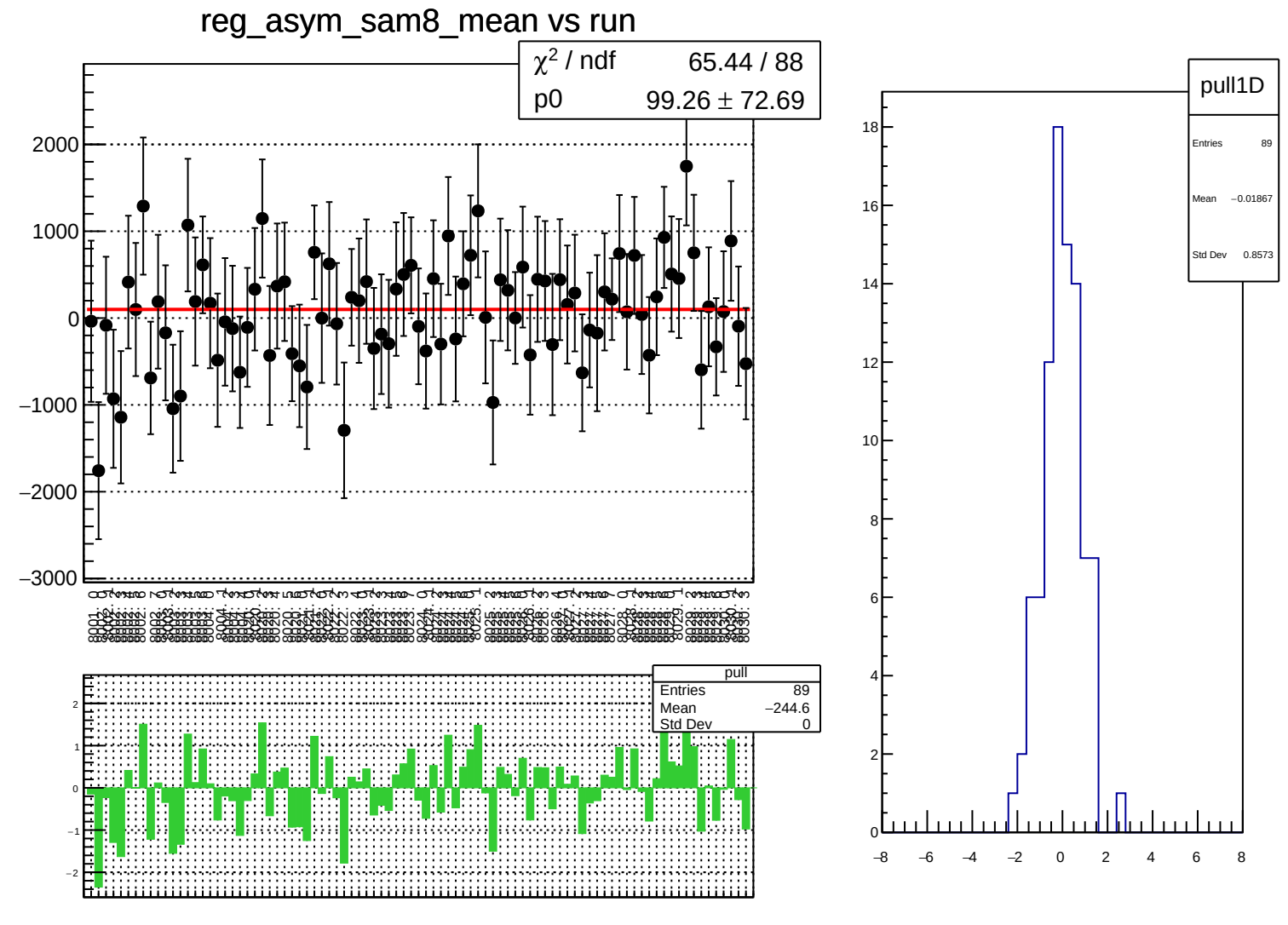

asym_sam7_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.6 / 88
p0 −0.001471 ± 0.02945
pull
Entries 89
Mean 155.5
Std Dev 0

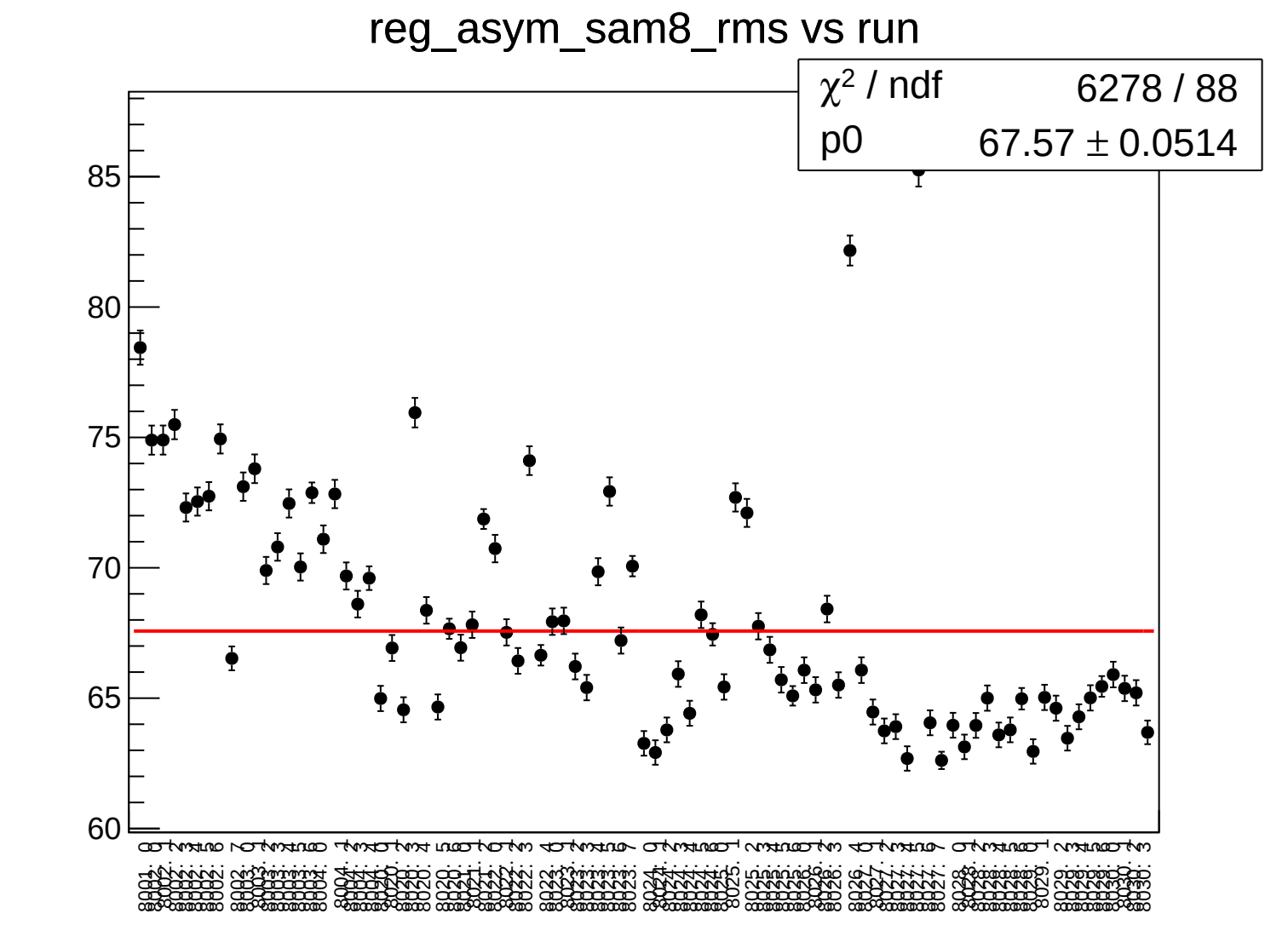

pull1D
Entries 89
Mean 0.01951
Std Dev 1.109

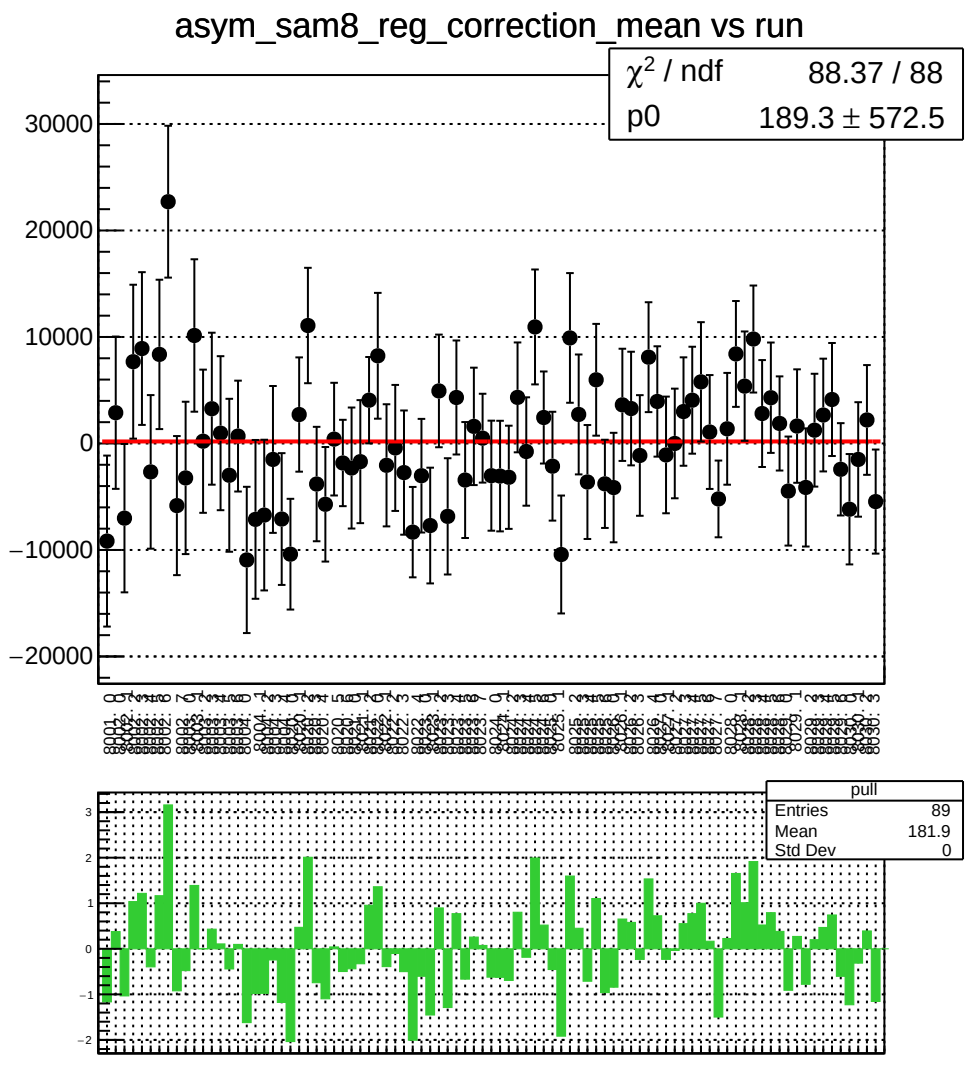

asym_sam7_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.435e+04 / 88
p0 26.84 ± 0.02083
55
50
45
40
35
30
25
20

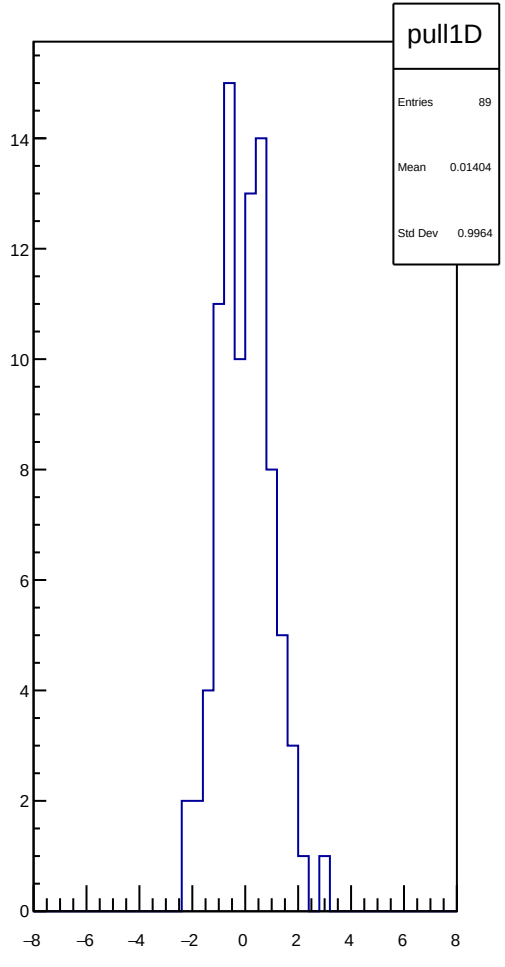

asym_sam7_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.54 / 88
p0 4.307e−14 ± 4.763e−14
pull
Entries 89
Mean 45.99
Std Dev 12.4
pull1D
Entries 89
Mean 0.03811
Std Dev 0.9796

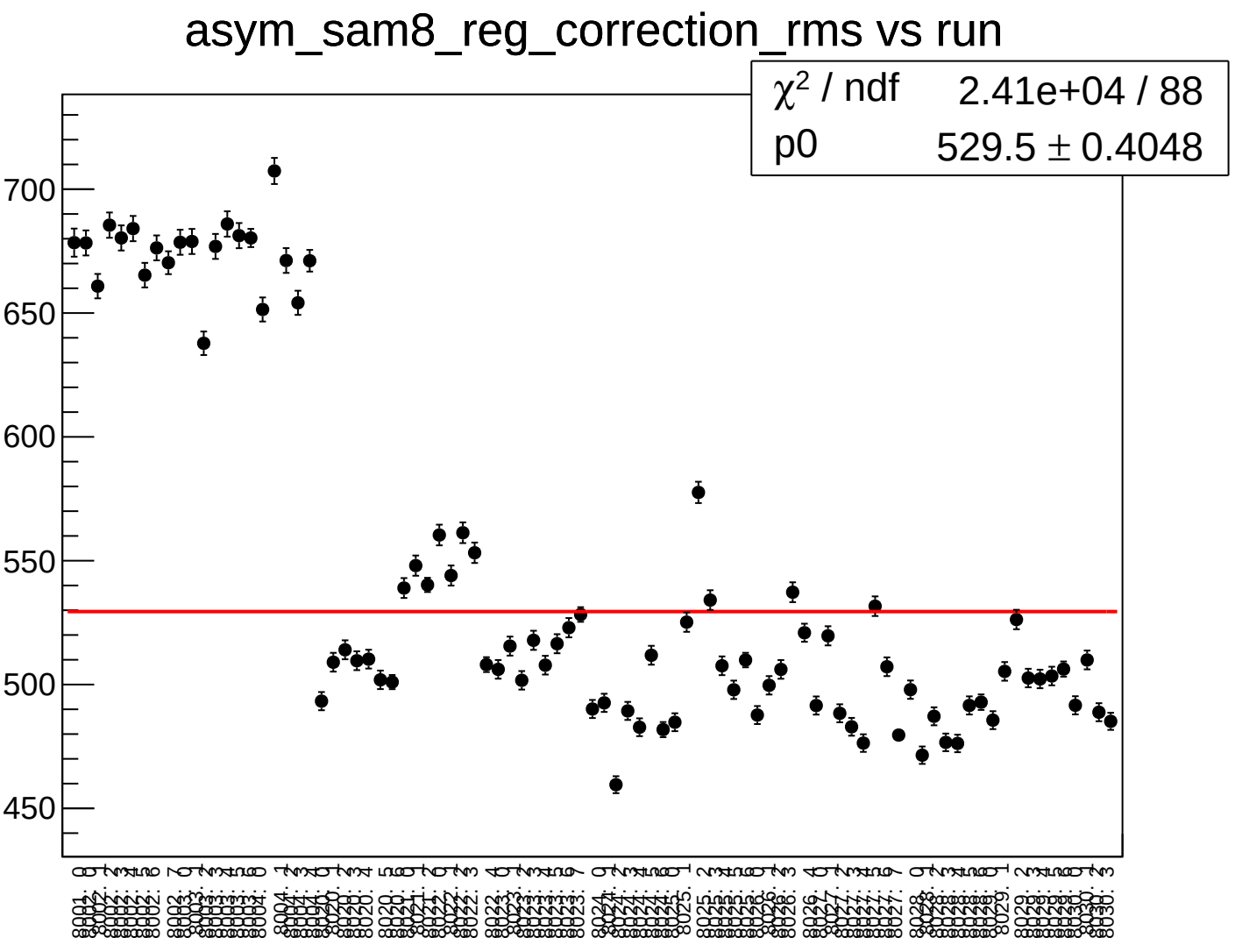

asym_sam7_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.671e+05 / 88
p0 3.313e−11 ± 3.368e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

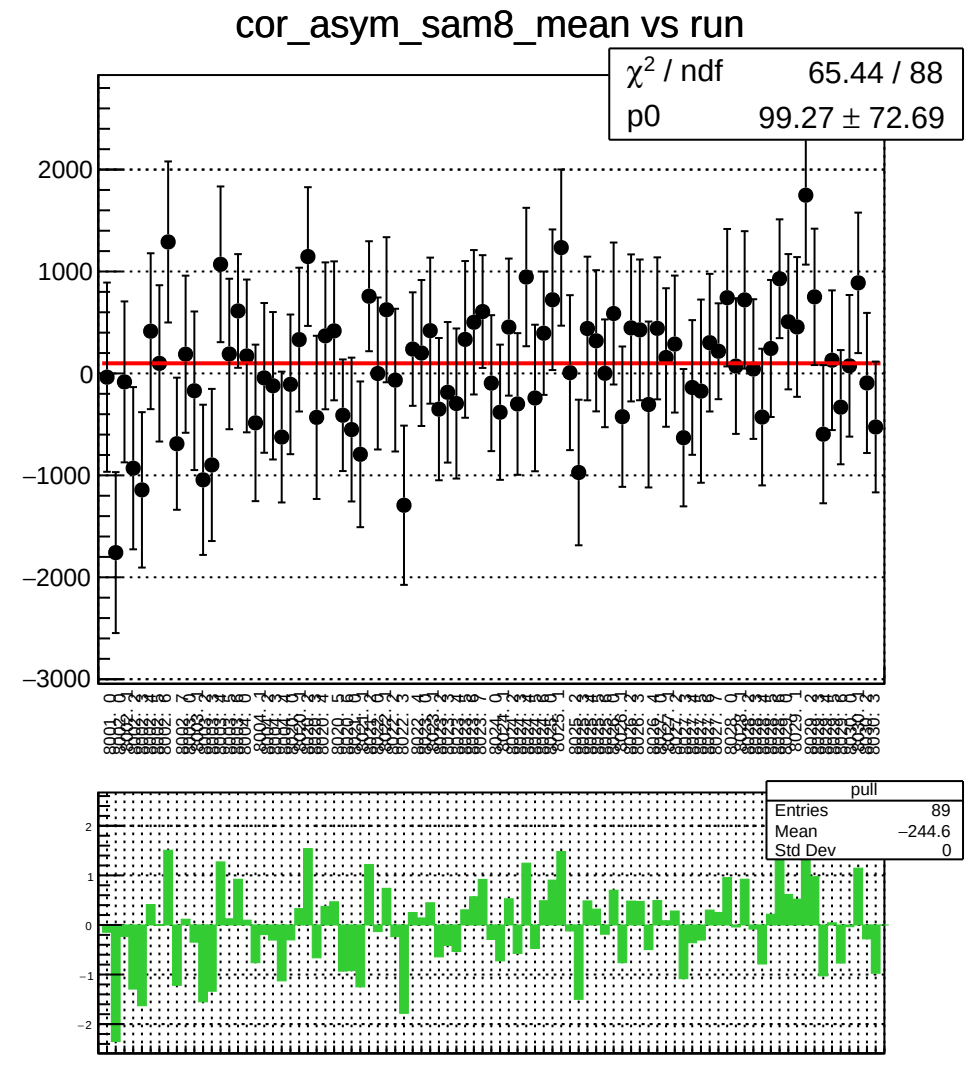

reg_asym_sam8_mean vs run
χ² / ndf 65.44 / 88
p0 99.26 ± 72.69
pull
Entries 89
Mean −244.6
Std Dev 0
pull1D
Entries 89
Mean −0.01867
Std Dev 0.8573

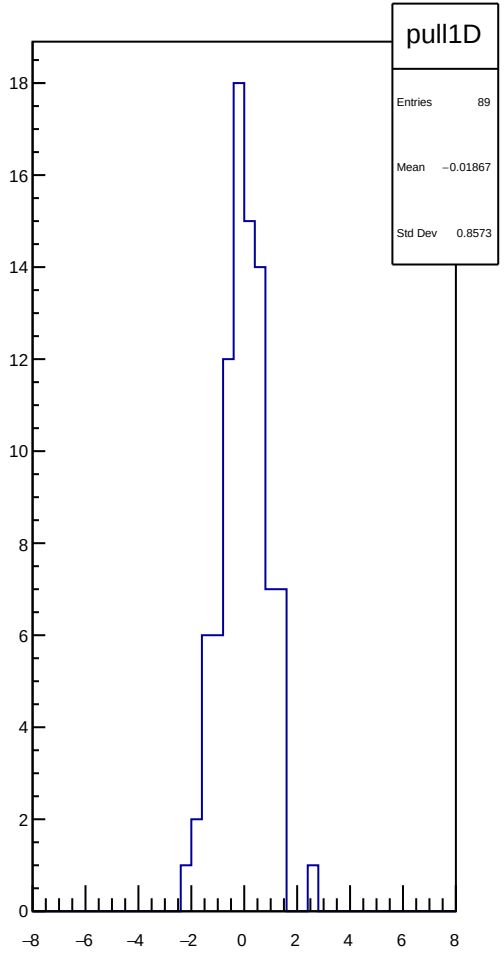

reg_asym_sam8_rms vs run
χ² / ndf 6278 / 88
p0 67.57 ± 0.0514
85
80
75
70
65
60

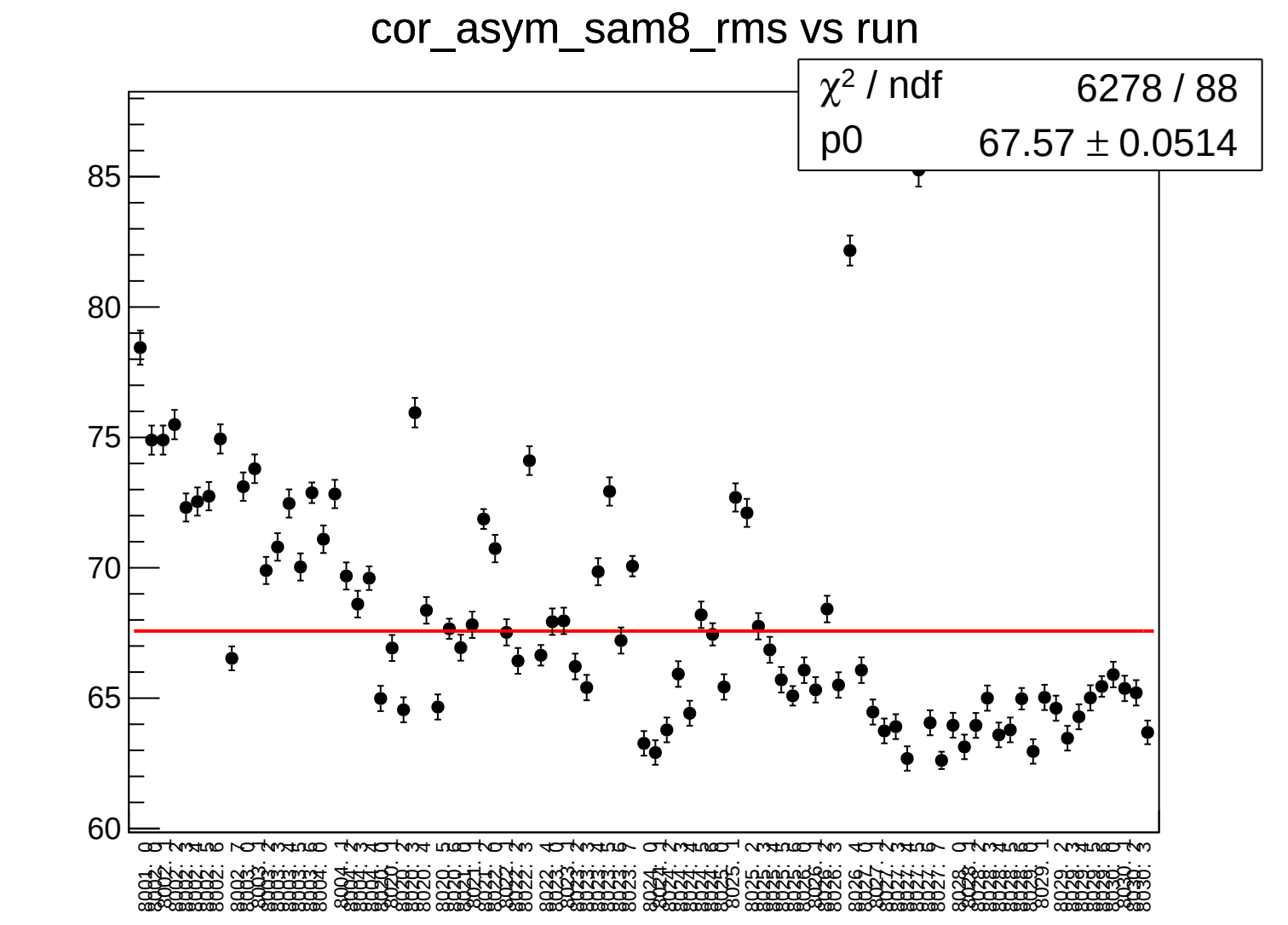

asym_sam8_reg_correction_mean vs run
χ² / ndf 88.37 / 88
p0 189.3 ± 572.5
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 181.9
Std Dev 0
3
2
1
0
−1
−2

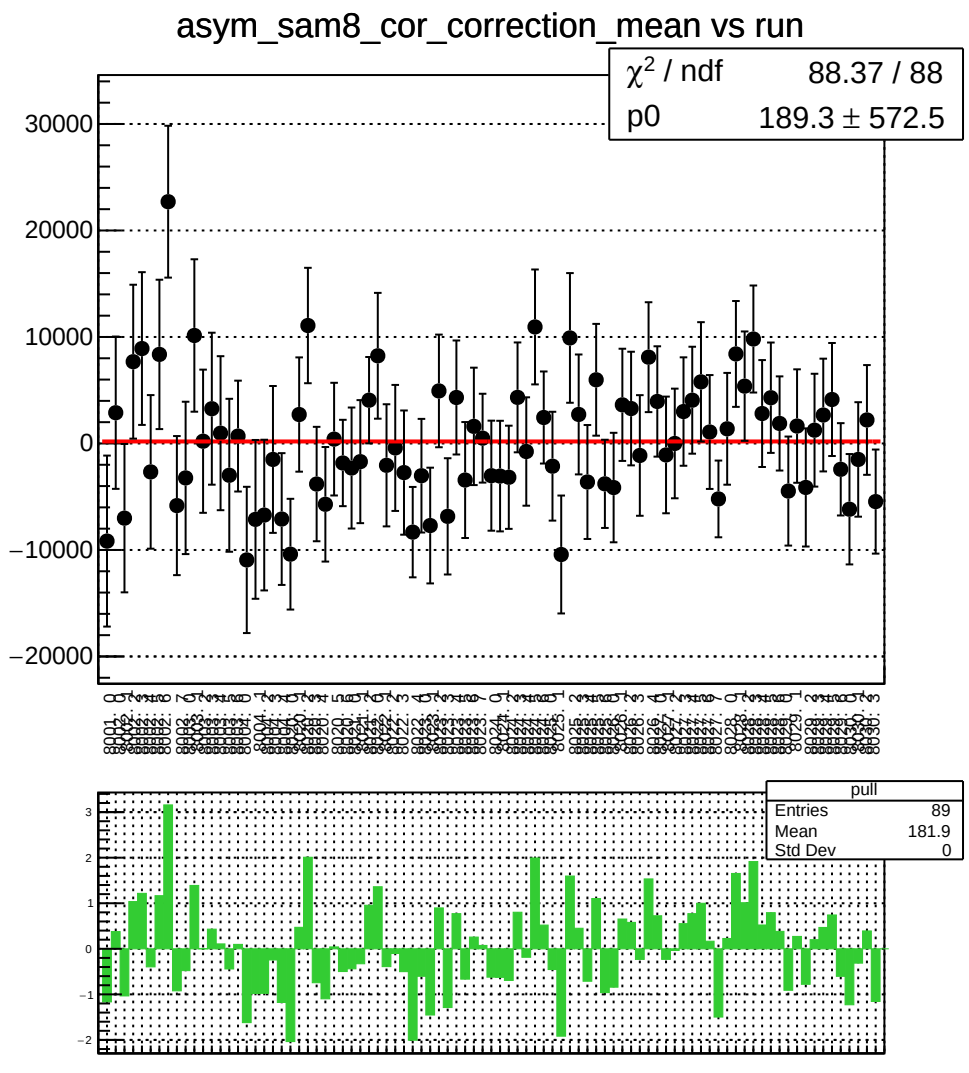

pull1D
Entries 89
Mean 0.01404
Std Dev 0.9964
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

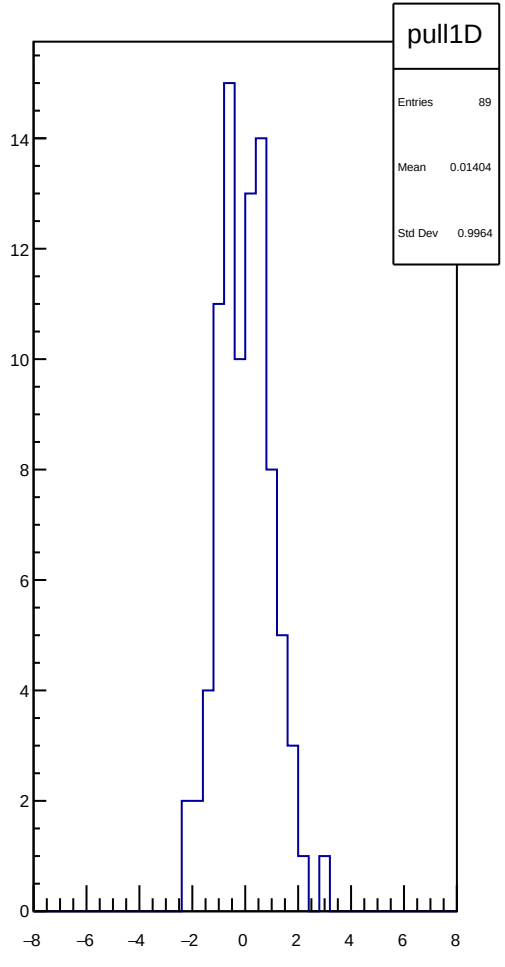

asym_sam8_reg_correction_rms vs run
χ² / ndf 2.41e+04 / 88
p0 529.5 ± 0.4048
700
650
600
550
500
450

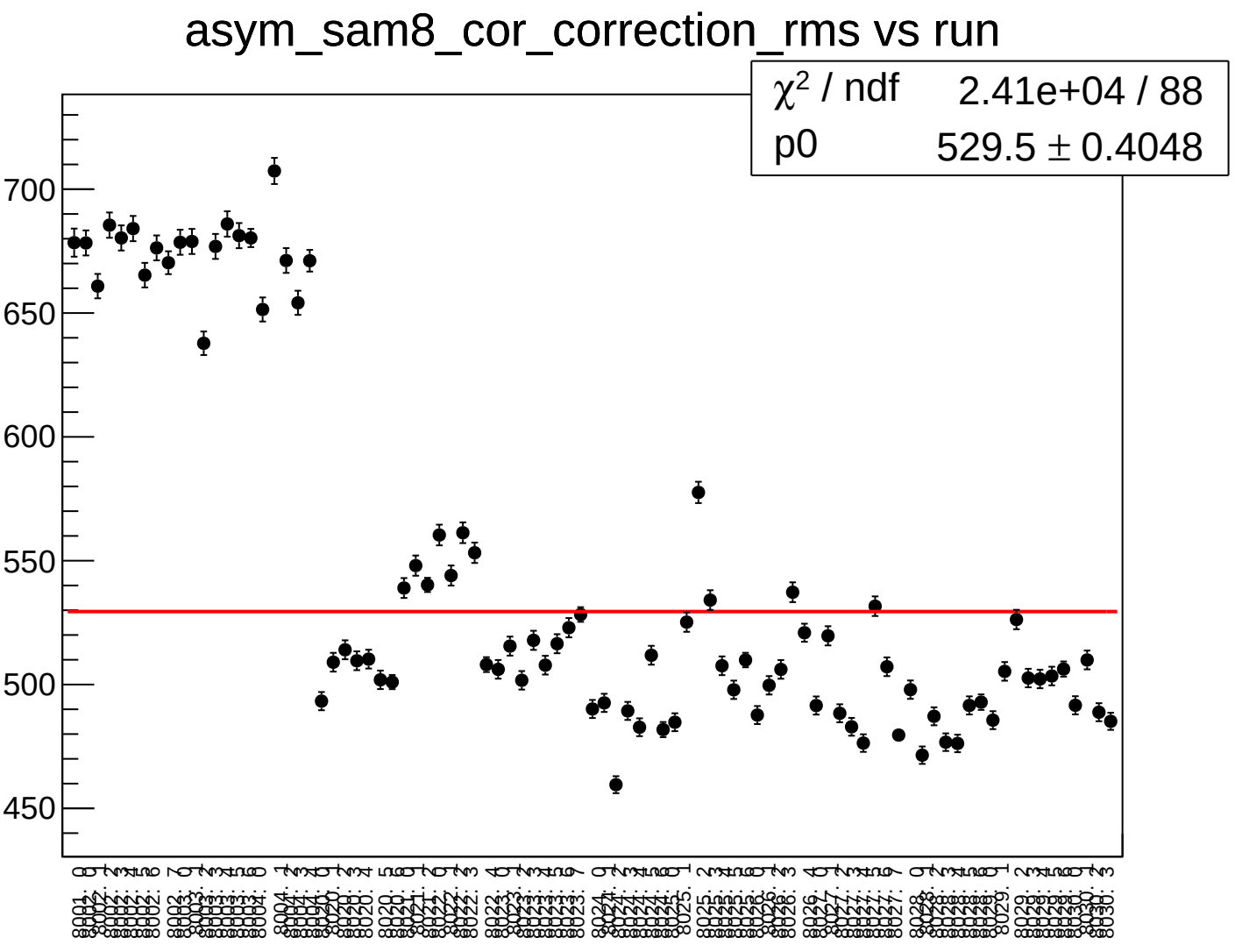

cor_asym_sam8_mean vs run
χ² / ndf 65.44 / 88
p0 99.27 ± 72.69
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean −244.6
Std Dev 0
2
1
0
−1
−2

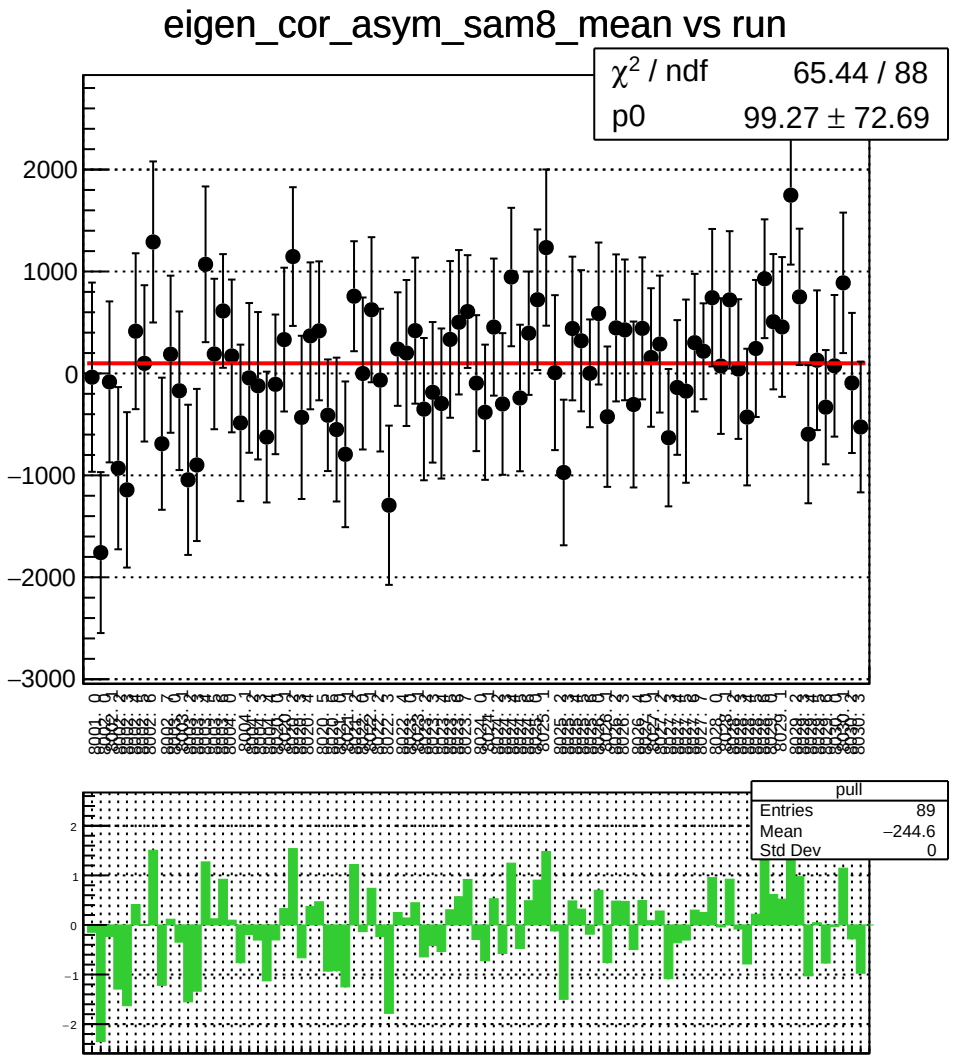

pull1D
Entries 89
Mean −0.01867
Std Dev 0.8573
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

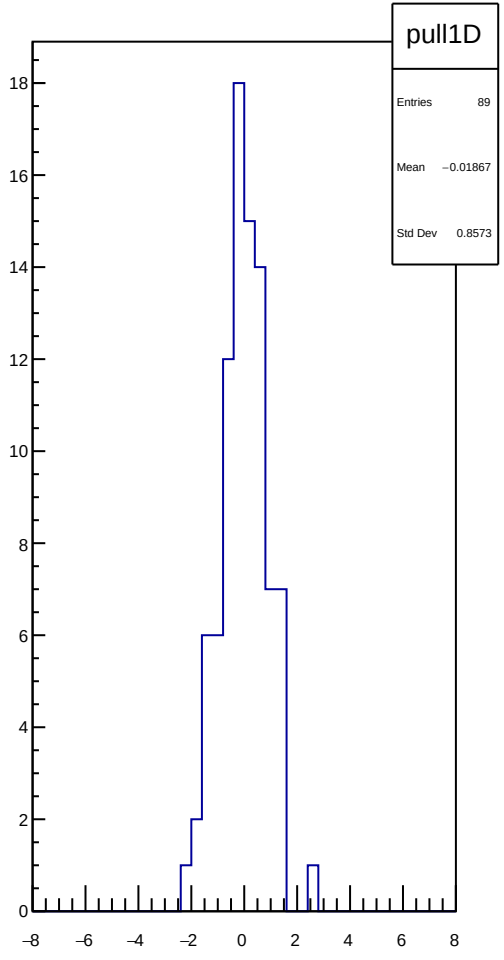

cor_asym_sam8_rms vs run
χ² / ndf 6278 / 88
p0 67.57 ± 0.0514
85
80
75
70
65
60

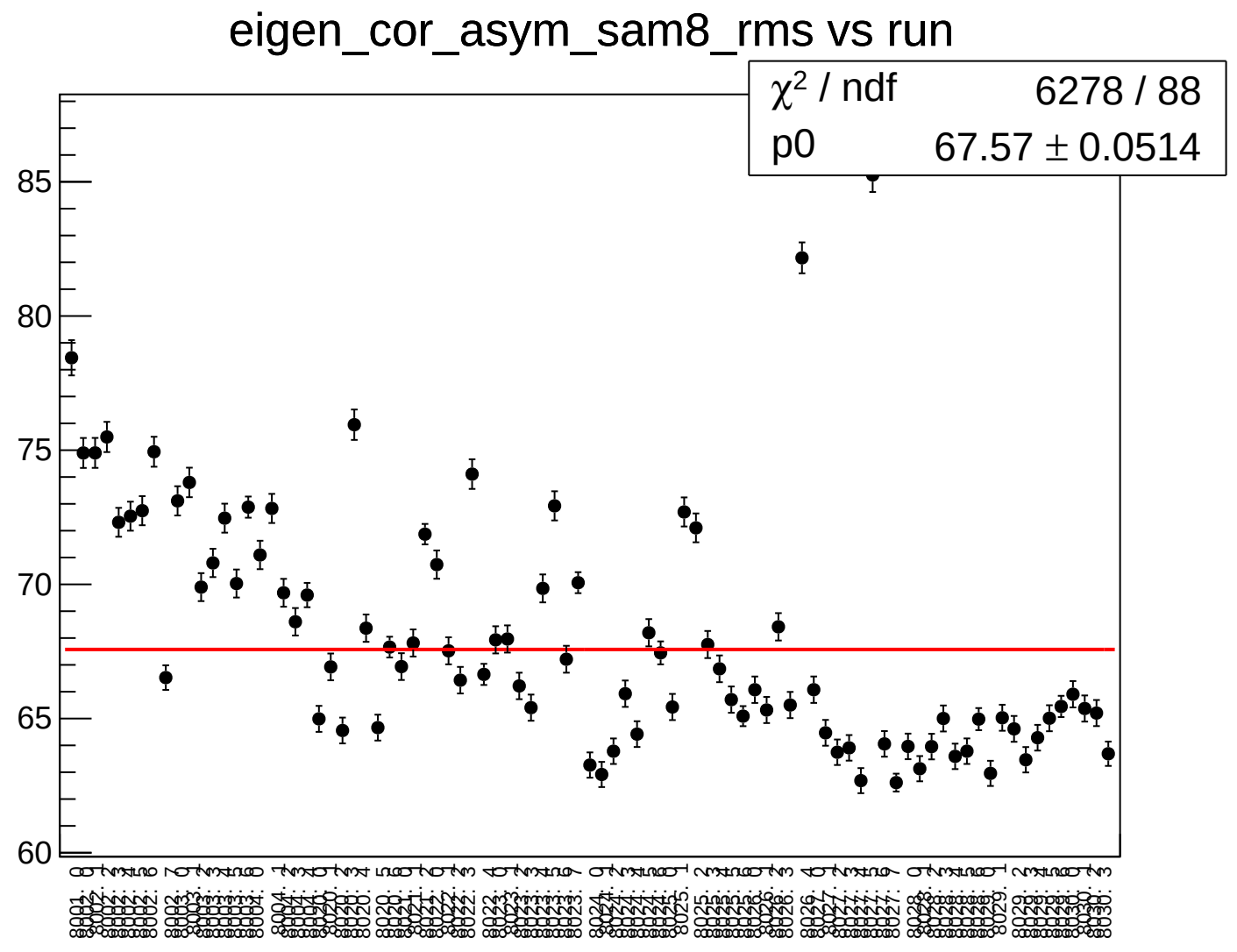

asym_sam8_cor_correction_mean vs run
χ² / ndf 88.37 / 88
p0 189.3 ± 572.5
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 181.9
Std Dev 0
3
2
1
0
−1
−2

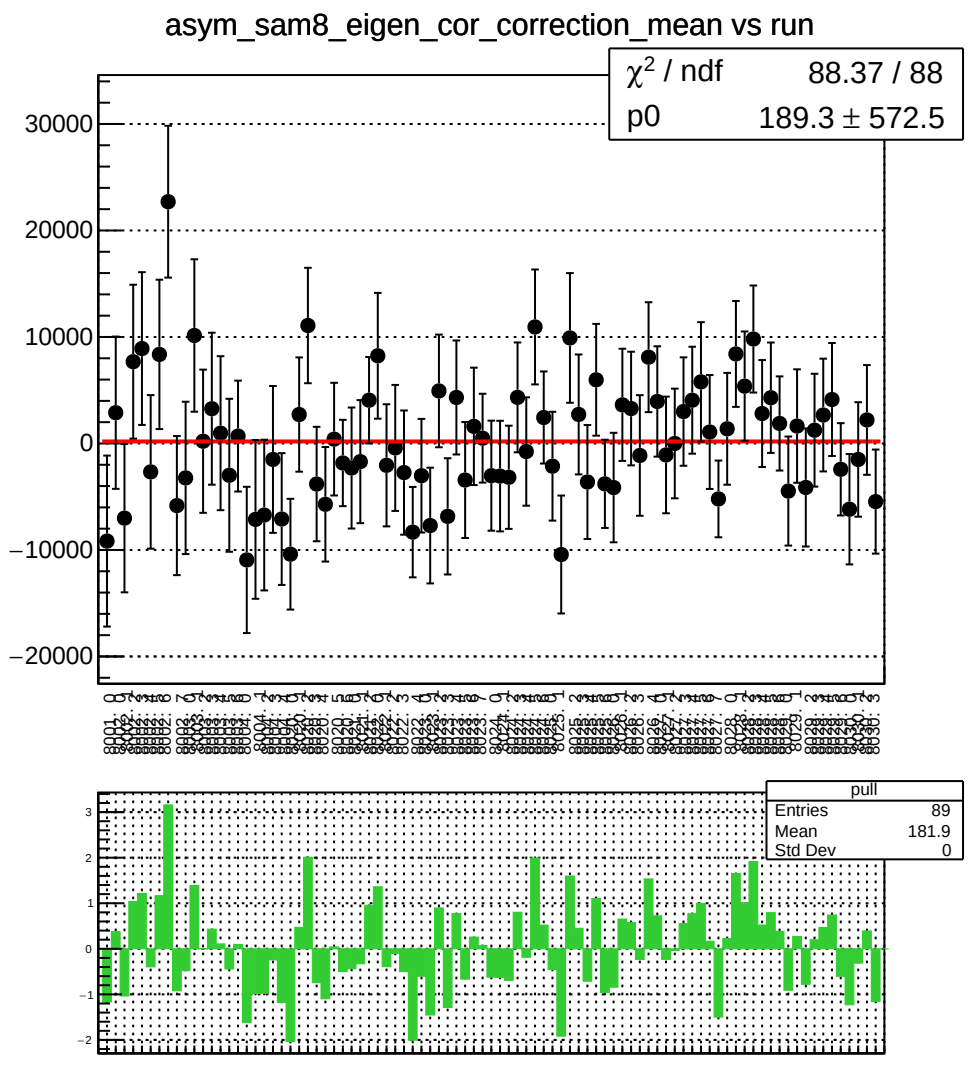

pull1D
Entries 89
Mean 0.01404
Std Dev 0.9964
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

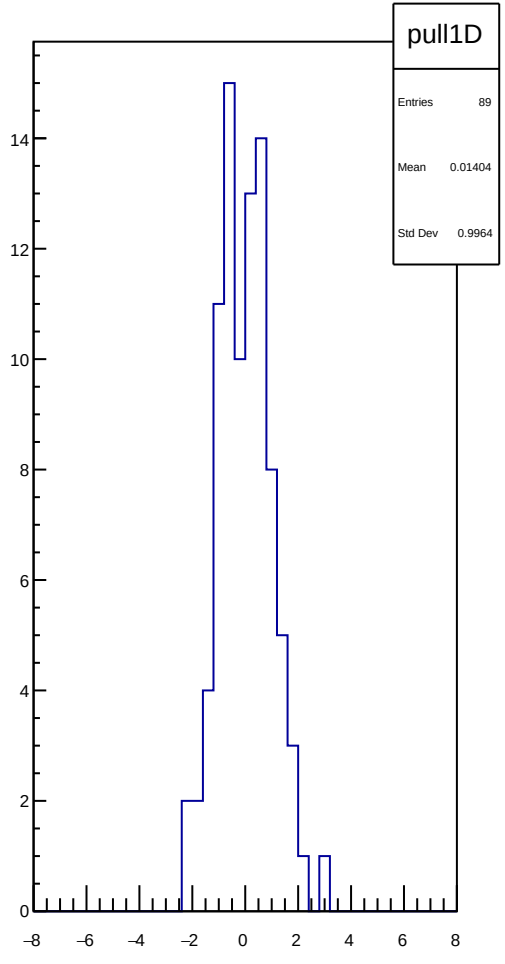

asym_sam8_cor_correction_rms vs run
χ² / ndf 2.41e+04 / 88
p0 529.5 ± 0.4048
700
650
600
550
500
450

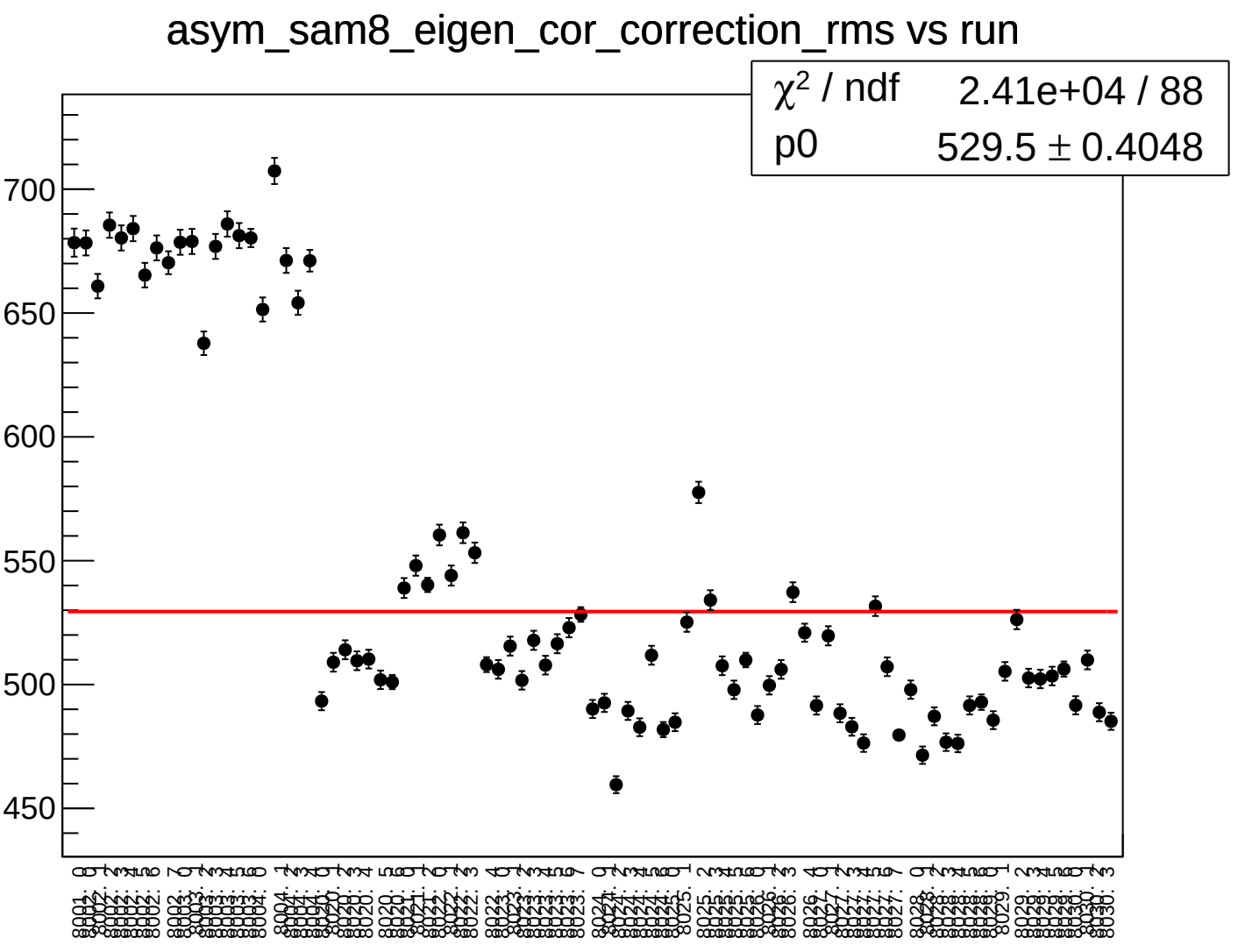

eigen_cor_asym_sam8_mean vs run
χ² / ndf 65.44 / 88
p0 99.27 ± 72.69
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean −244.6
Std Dev 0
2
1
0
−1
−2

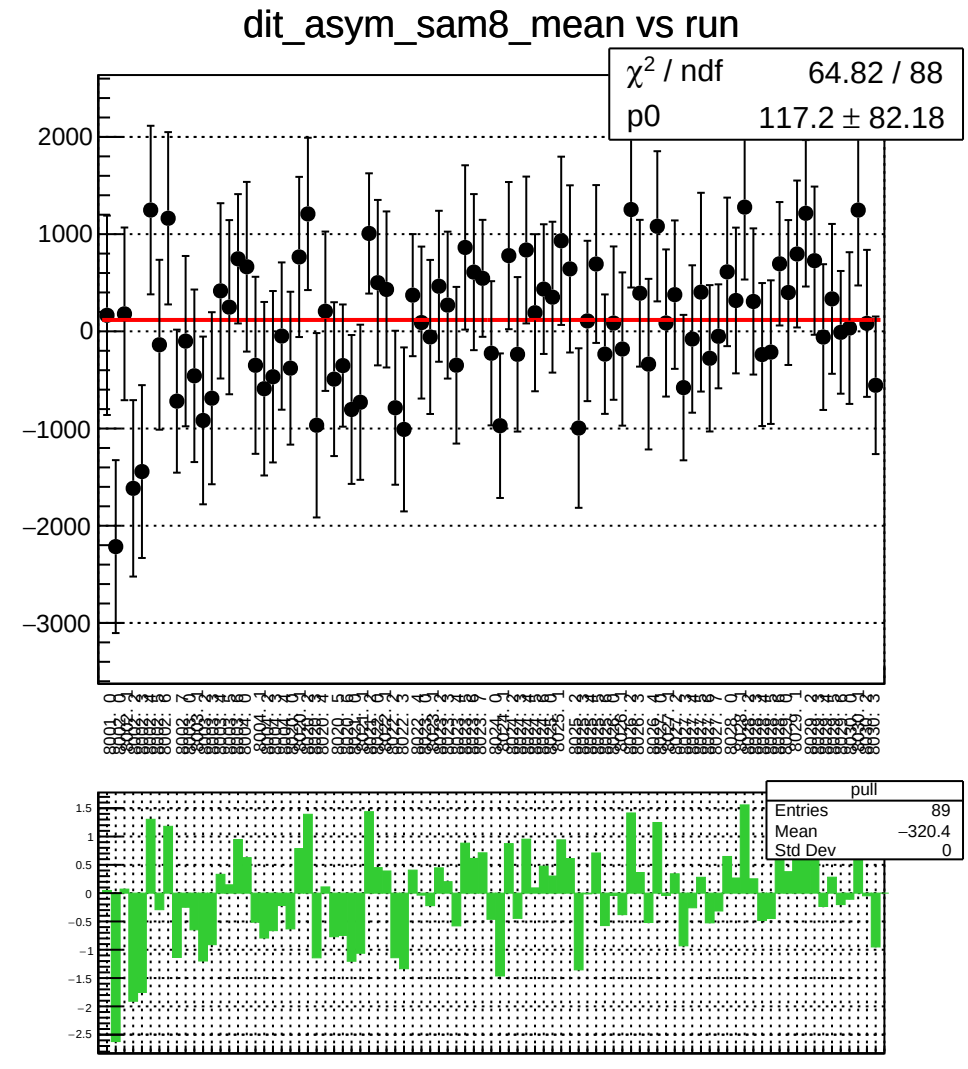

pull1D
Entries 89
Mean −0.01867
Std Dev 0.8573
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

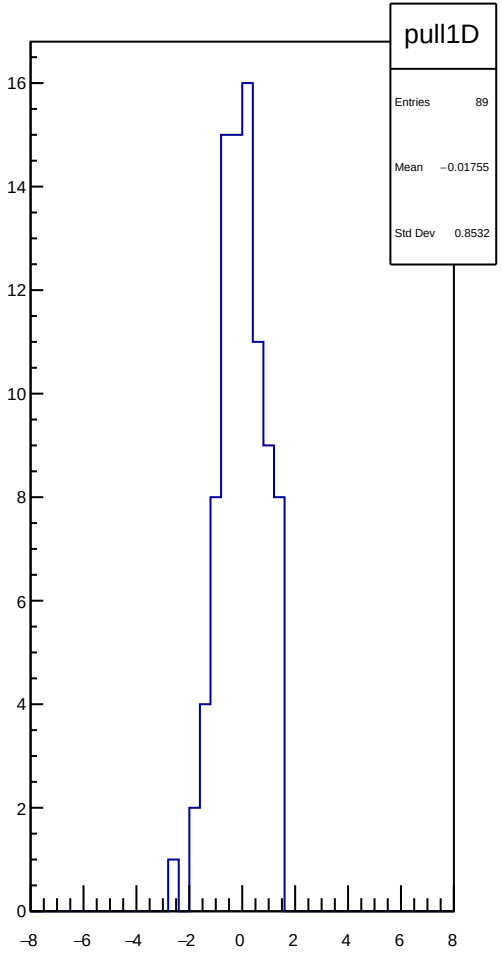

eigen_cor_asym_sam8_rms vs run
χ² / ndf 6278 / 88
p0 67.57 ± 0.0514
85
80
75
70
65
60

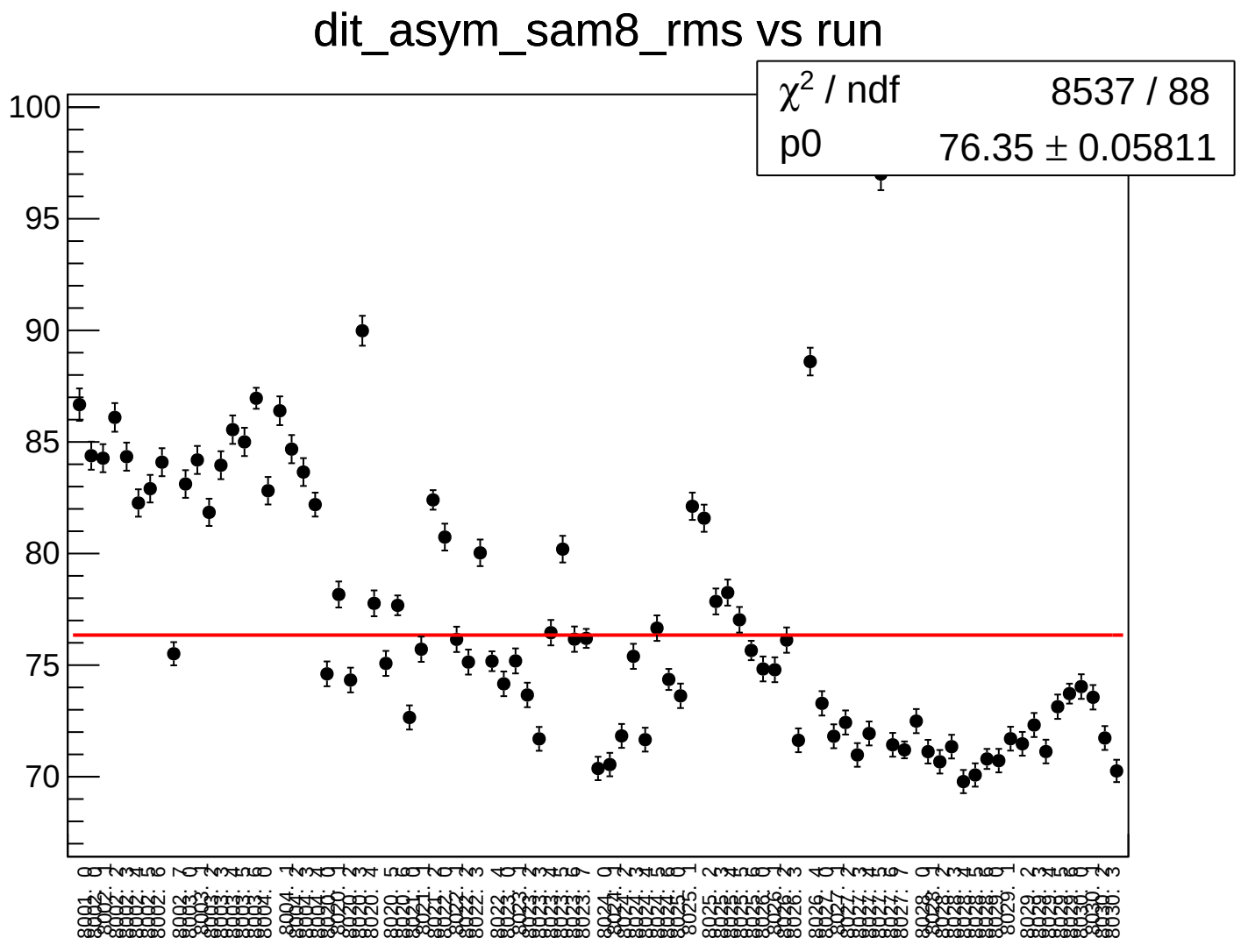

asym_sam8_eigen_cor_correction_mean vs run
χ² / ndf 88.37 / 88
p0 189.3 ± 572.5
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 181.9
Std Dev 0
3
2
1
0
−1
−2

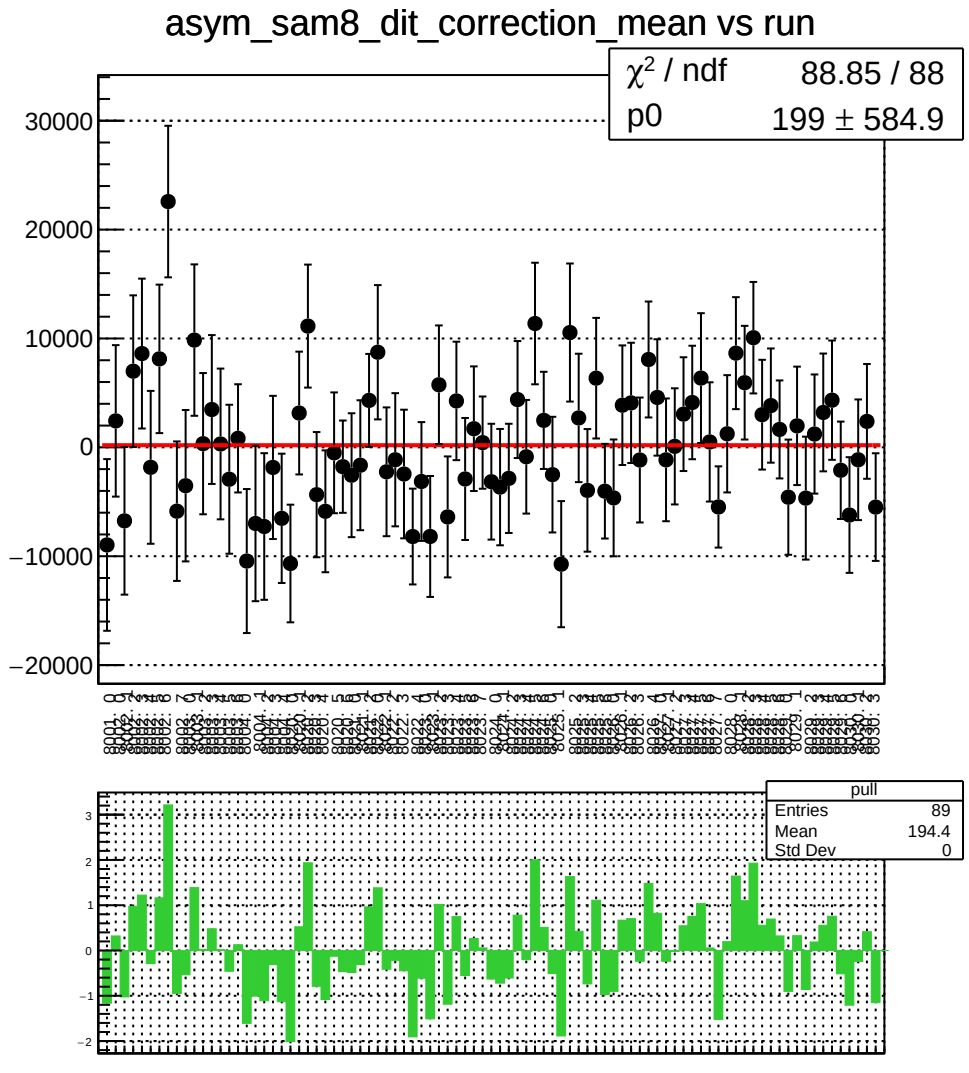

pull1D
Entries 89
Mean 0.01404
Std Dev 0.9964
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

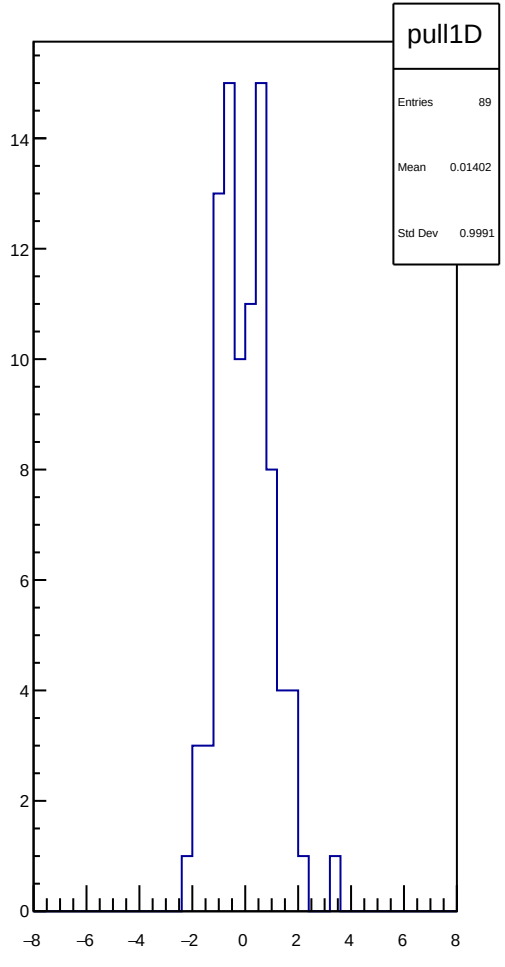

asym_sam8_eigen_cor_correction_rms vs run
χ² / ndf 2.41e+04 / 88
p0 529.5 ± 0.4048
700
650
600
550
500
450

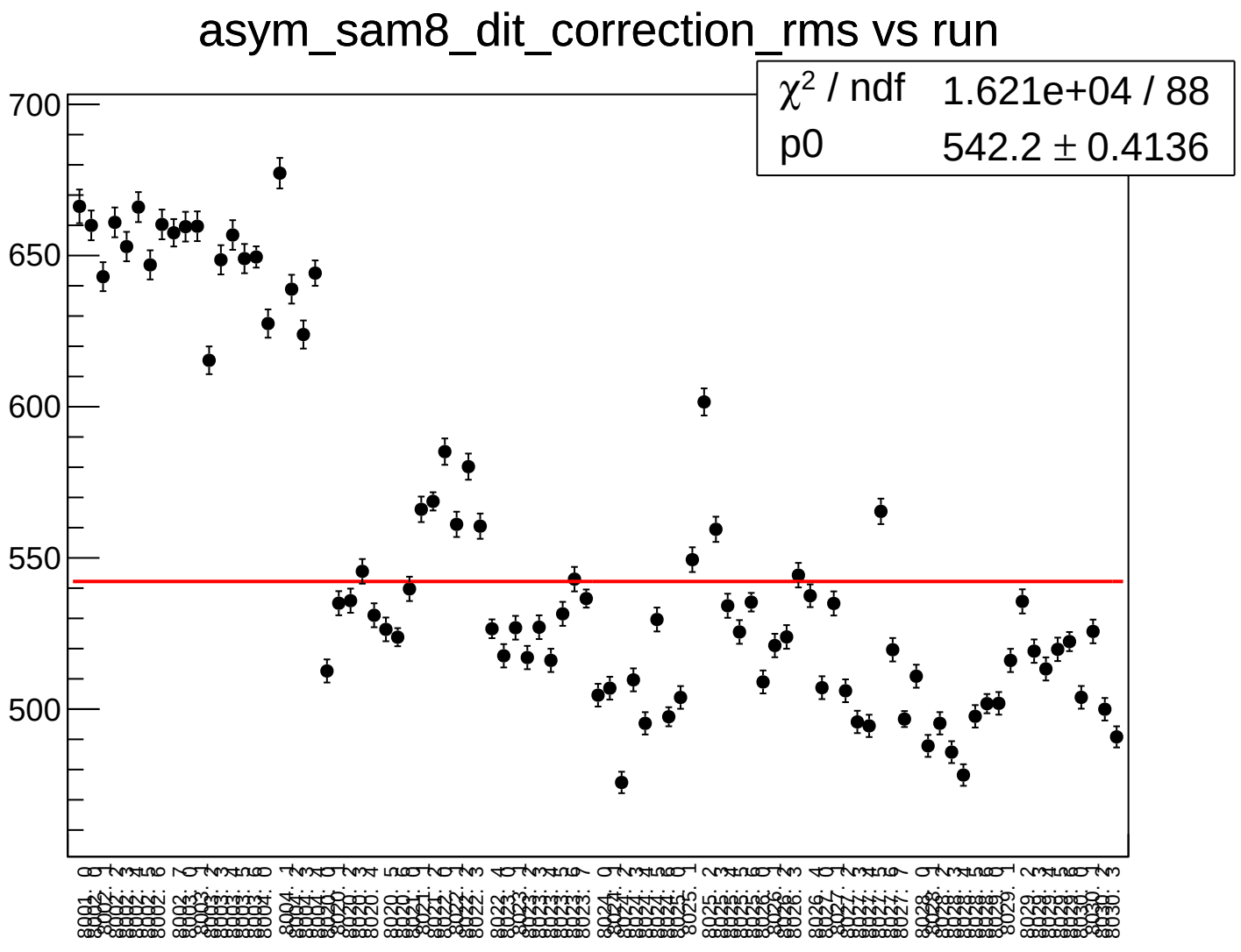

dit_asym_sam8_mean vs run
χ² / ndf 64.82 / 88
p0 117.2 ± 82.18
pull
Entries 89
Mean −320.4
Std Dev 0

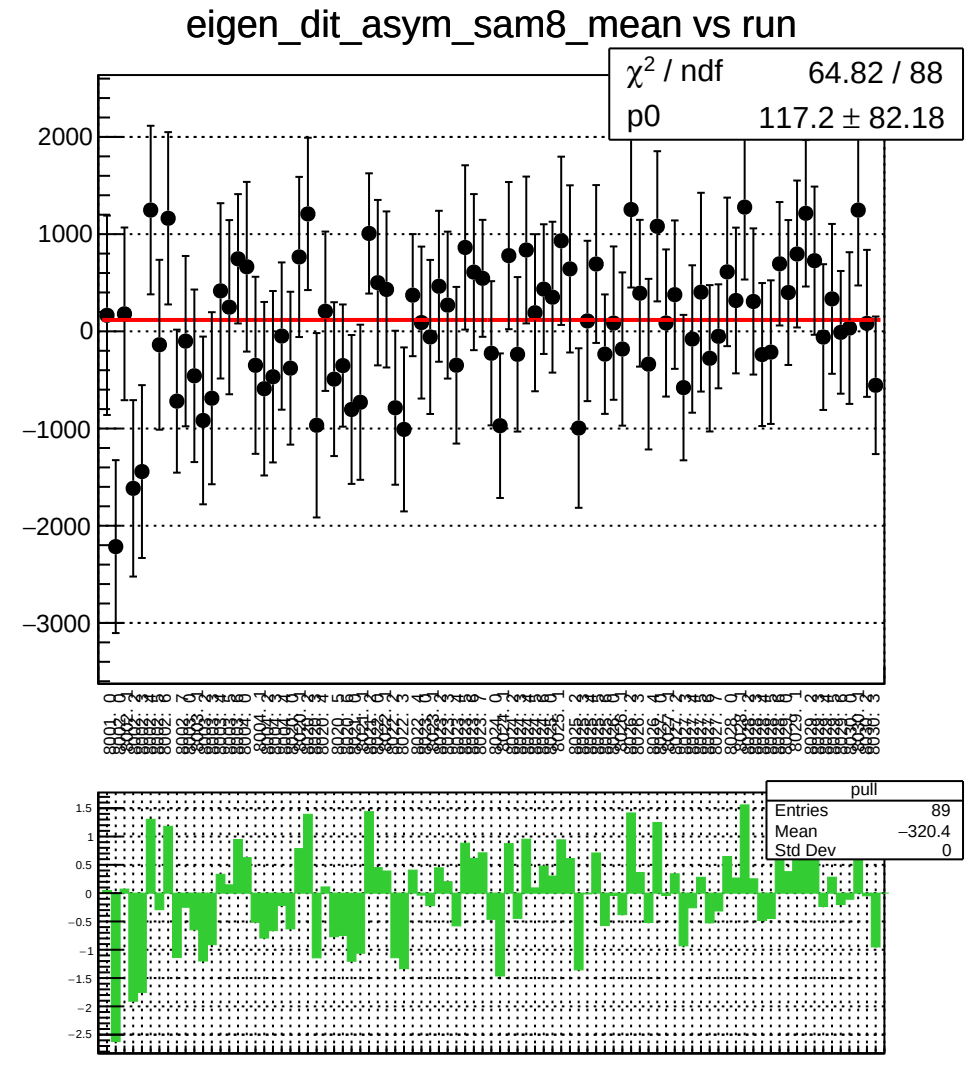

pull1D
Entries 89
Mean −0.01755
Std Dev 0.8532

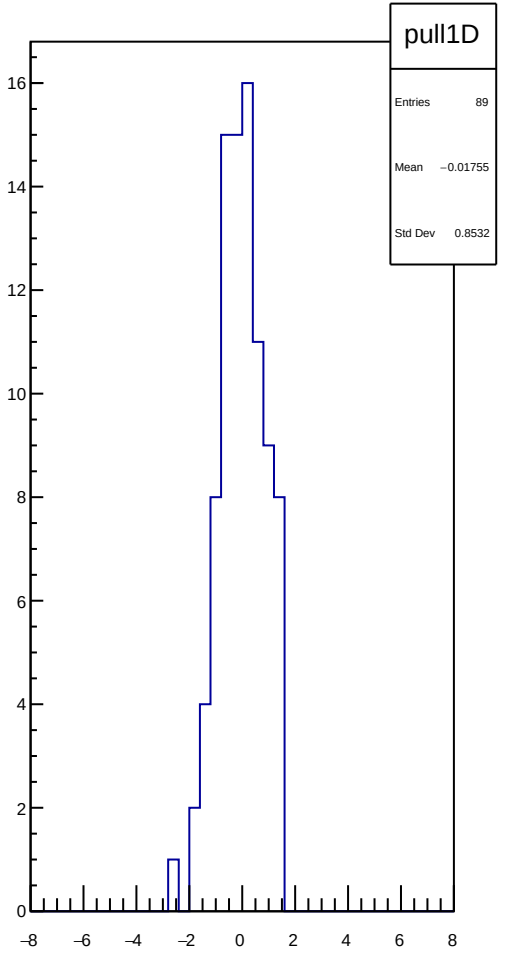

dit_asym_sam8_rms vs run
χ^2 / ndf 8537 / 88
p0 76.35 ± 0.05811
100
95
90
85
80
75
70

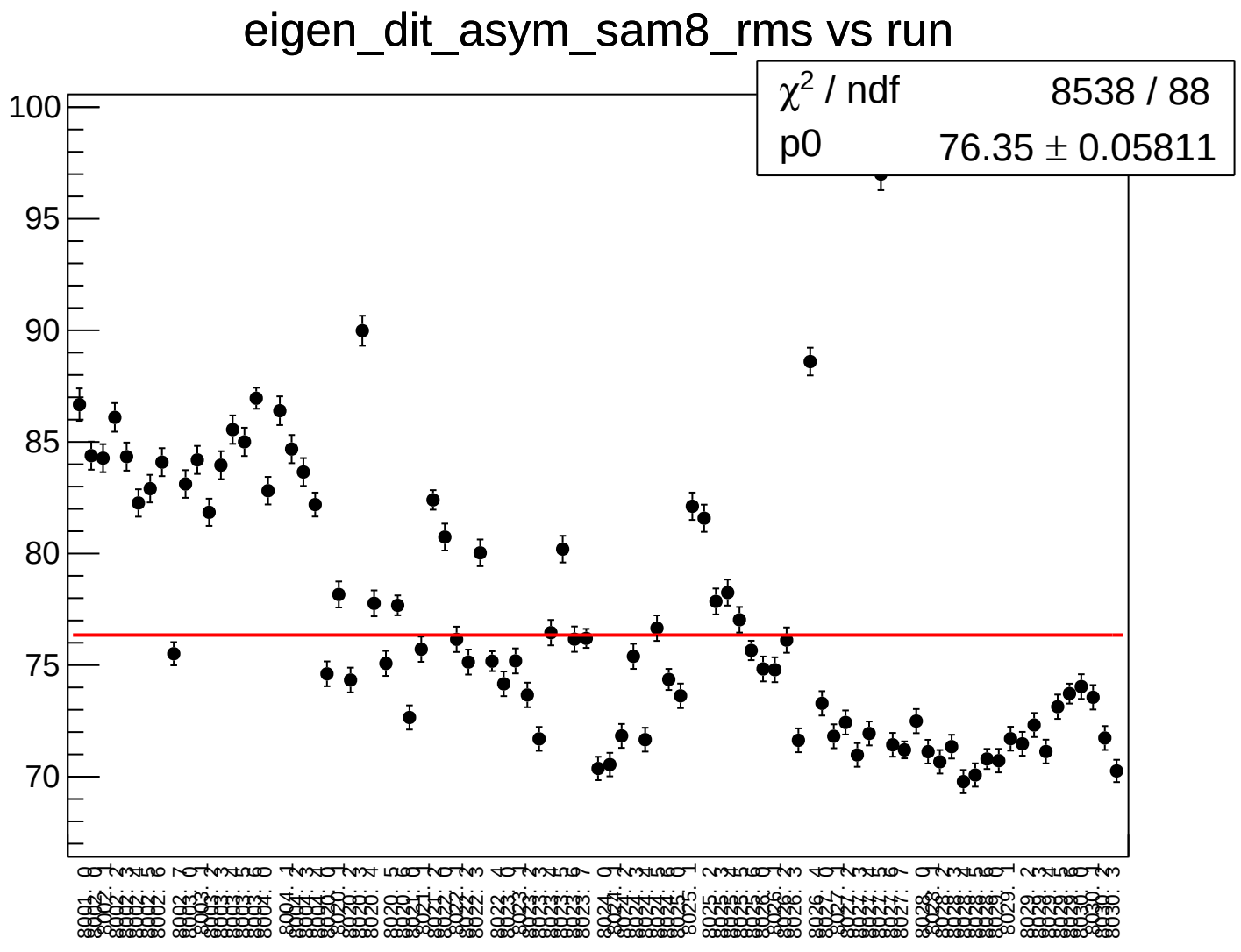

asym_sam8_dit_correction_mean vs run
χ² / ndf 88.85 / 88
p0 199 ± 584.9
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 194.4
Std Dev 0
3
2
1
0
−1
−2

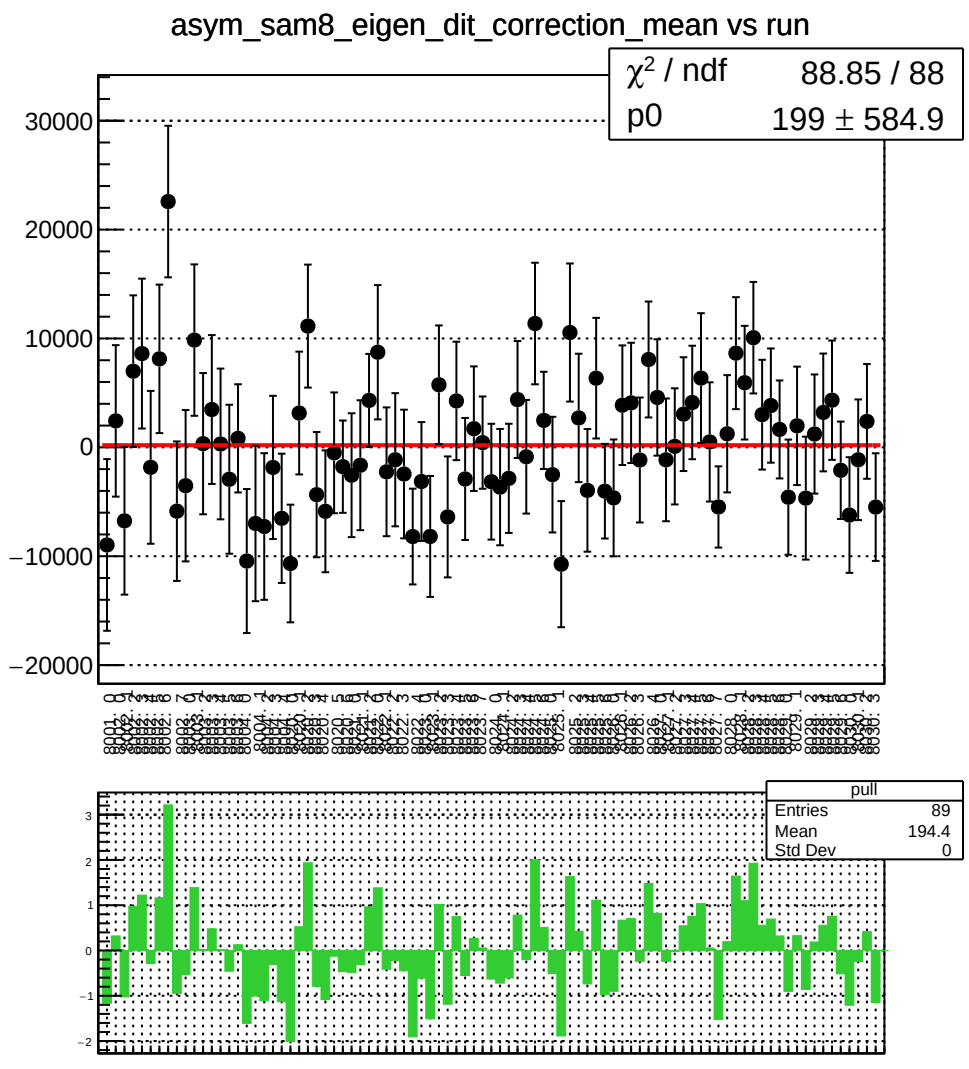

pull1D
Entries 89
Mean 0.01402
Std Dev 0.9991
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

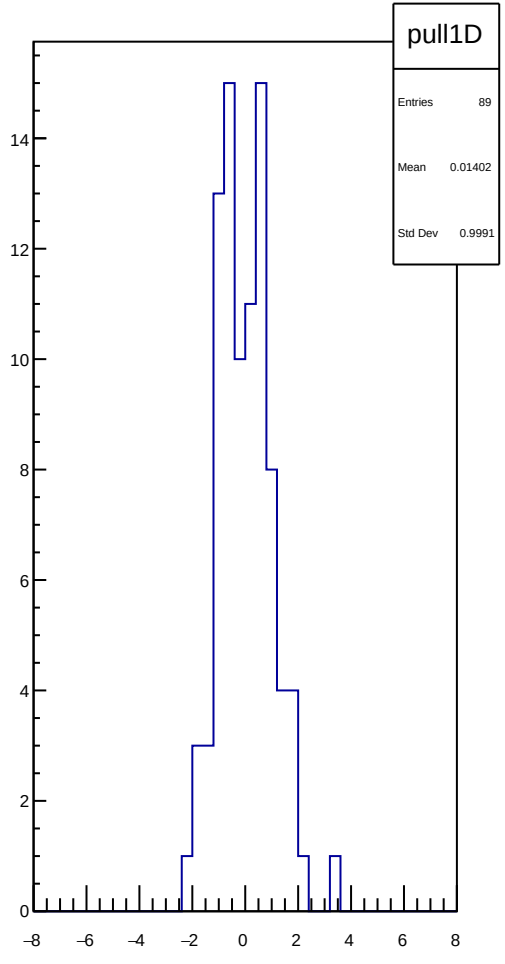

asym_sam8_dit_correction_rms vs run
χ² / ndf 1.621e+04 / 88
p0 542.2 ± 0.4136
700
650
600
550
500

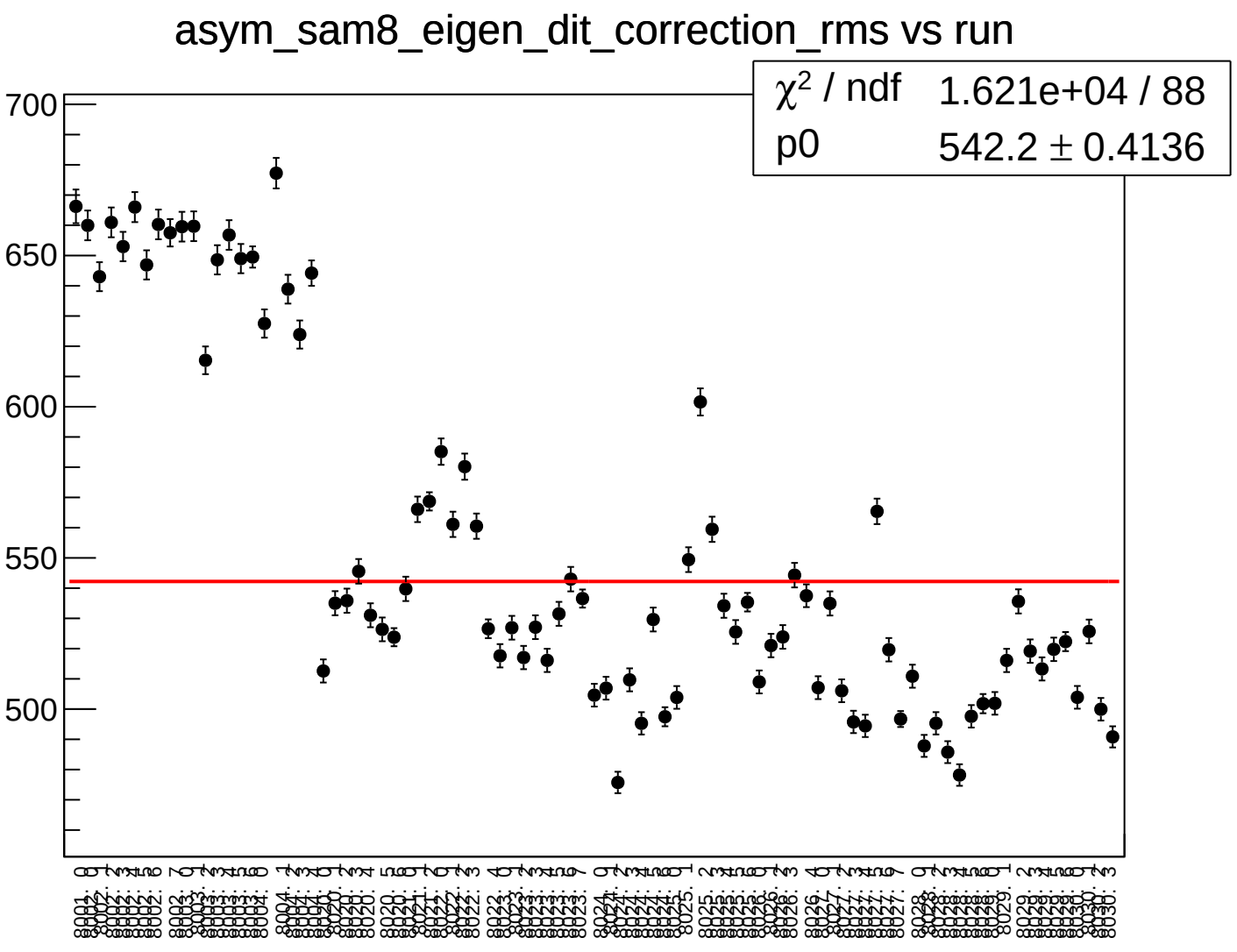

eigen_dit_asym_sam8_mean vs run
χ² / ndf 64.82 / 88
p0 117.2 ± 82.18
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean −320.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

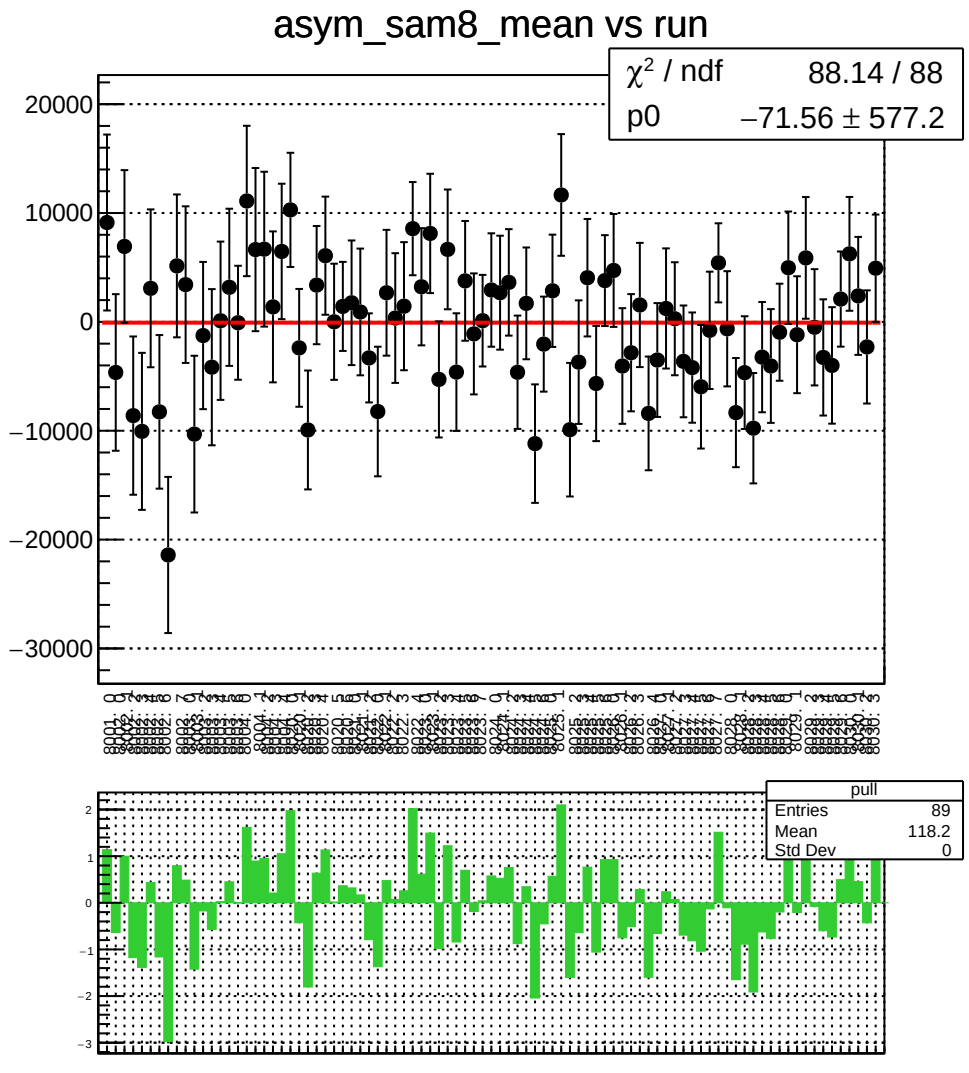

pull1D
Entries 89
Mean −0.01755
Std Dev 0.8532
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

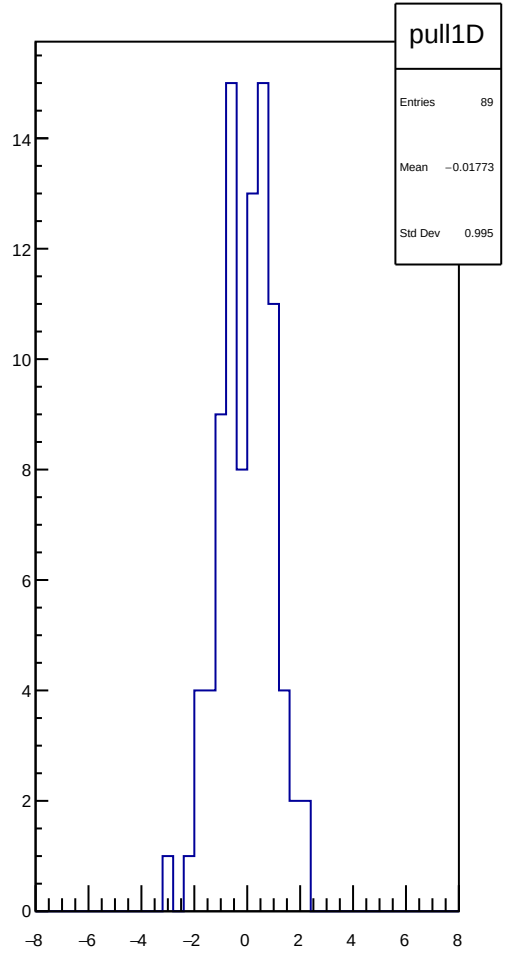

eigen_dit_asym_sam8_rms vs run
χ^2 / ndf 8538 / 88
p0 76.35 ± 0.05811
100
95
90
85
80
75
70

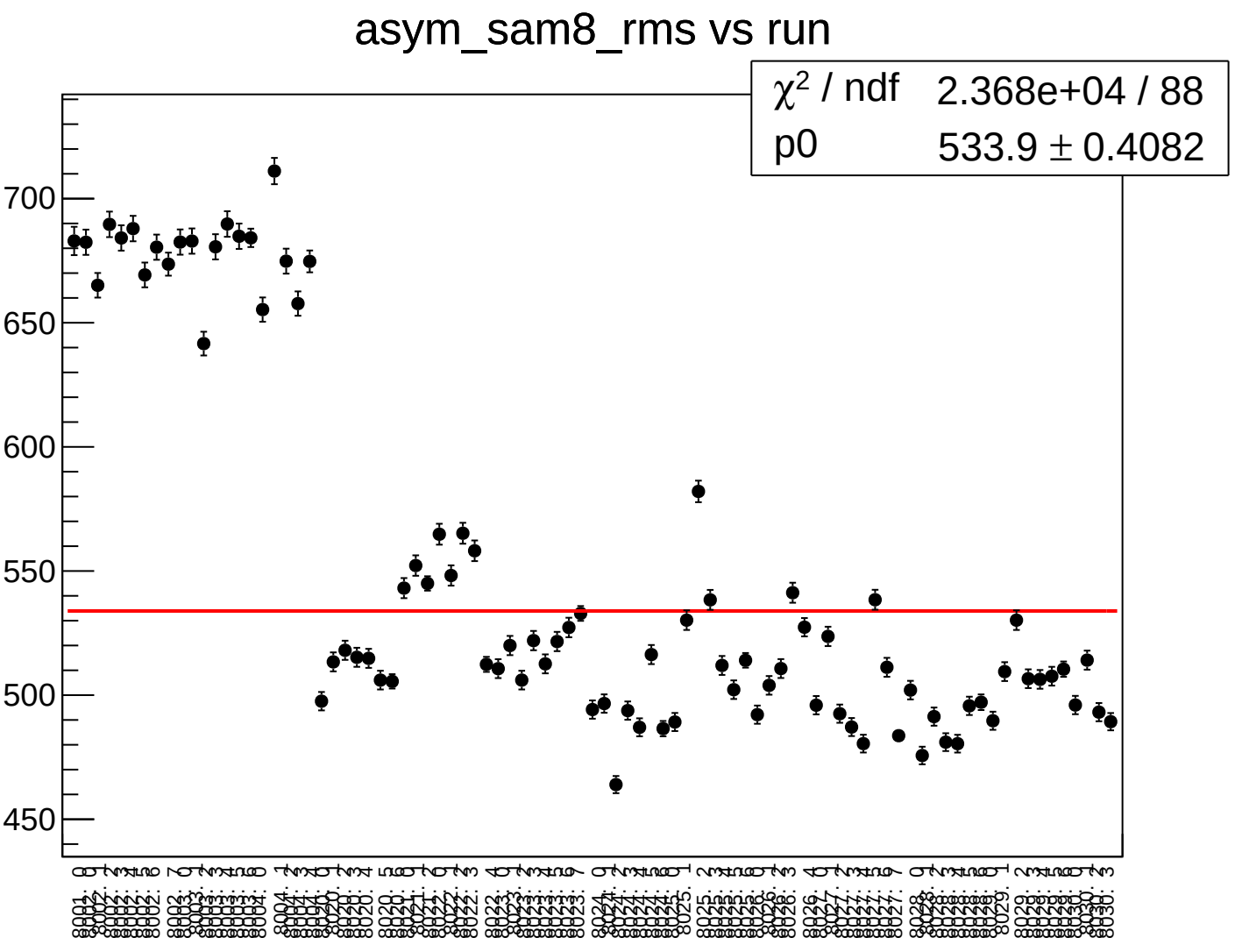

asym_sam8_eigen_dit_correction_mean vs run
χ² / ndf 88.85 / 88
p0 199 ± 584.9
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 194.4
Std Dev 0
3
2
1
0
−1
−2

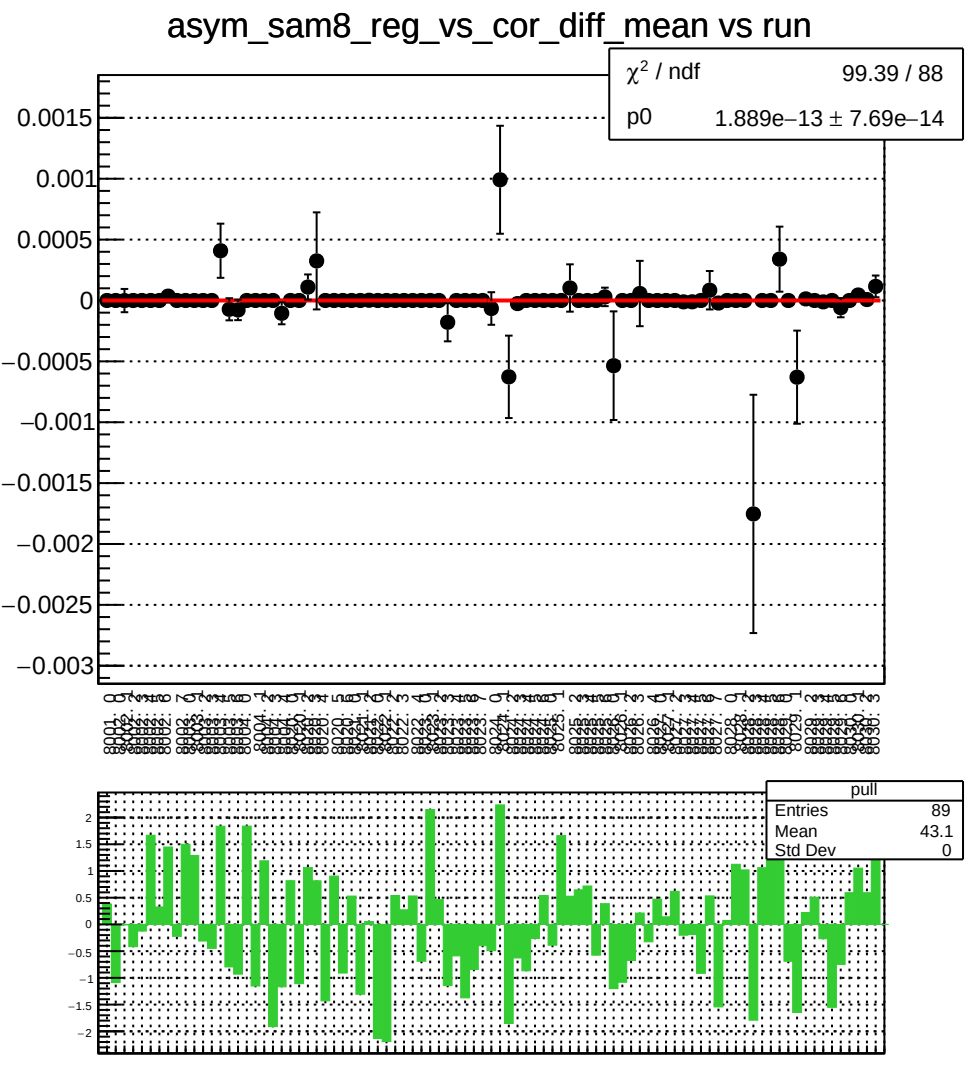

pull1D
Entries 89
Mean 0.01402
Std Dev 0.9991
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

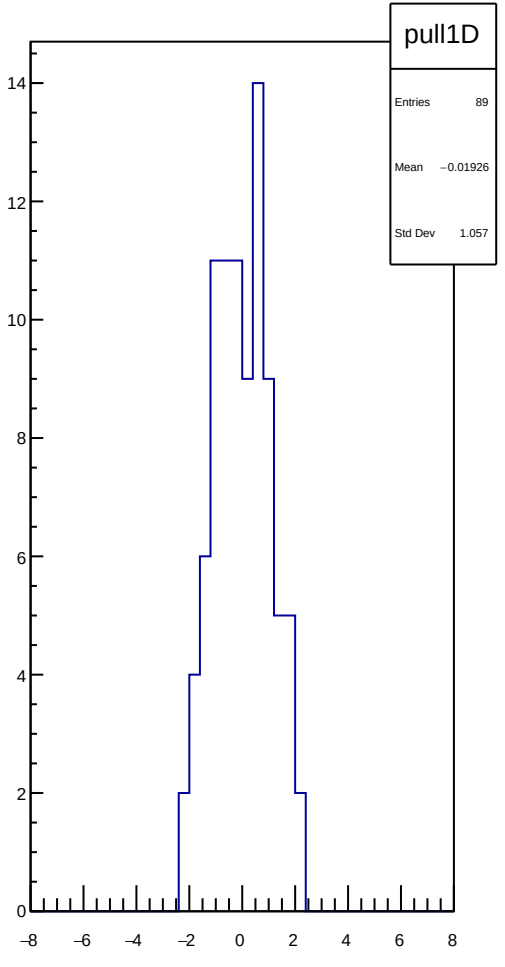

asym_sam8_eigen_dit_correction_rms vs run
χ² / ndf 1.621e+04 / 88
p0 542.2 ± 0.4136
700
650
600
550
500

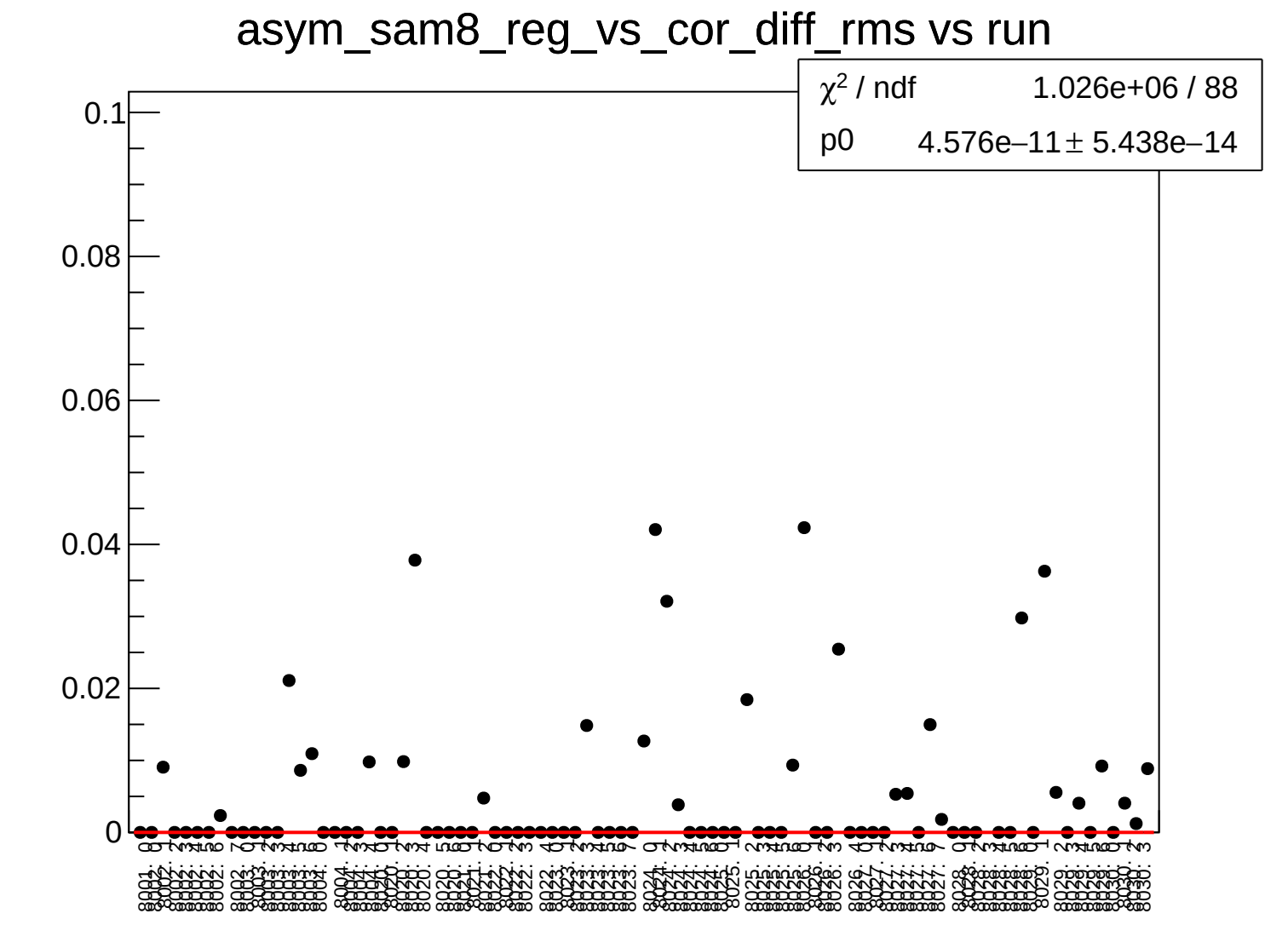

asym_sam8_mean vs run
χ² / ndf 88.14 / 88
p0 −71.56 ± 577.2
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 118.2
Std Dev 0
2
1
0
−1
−2
−3

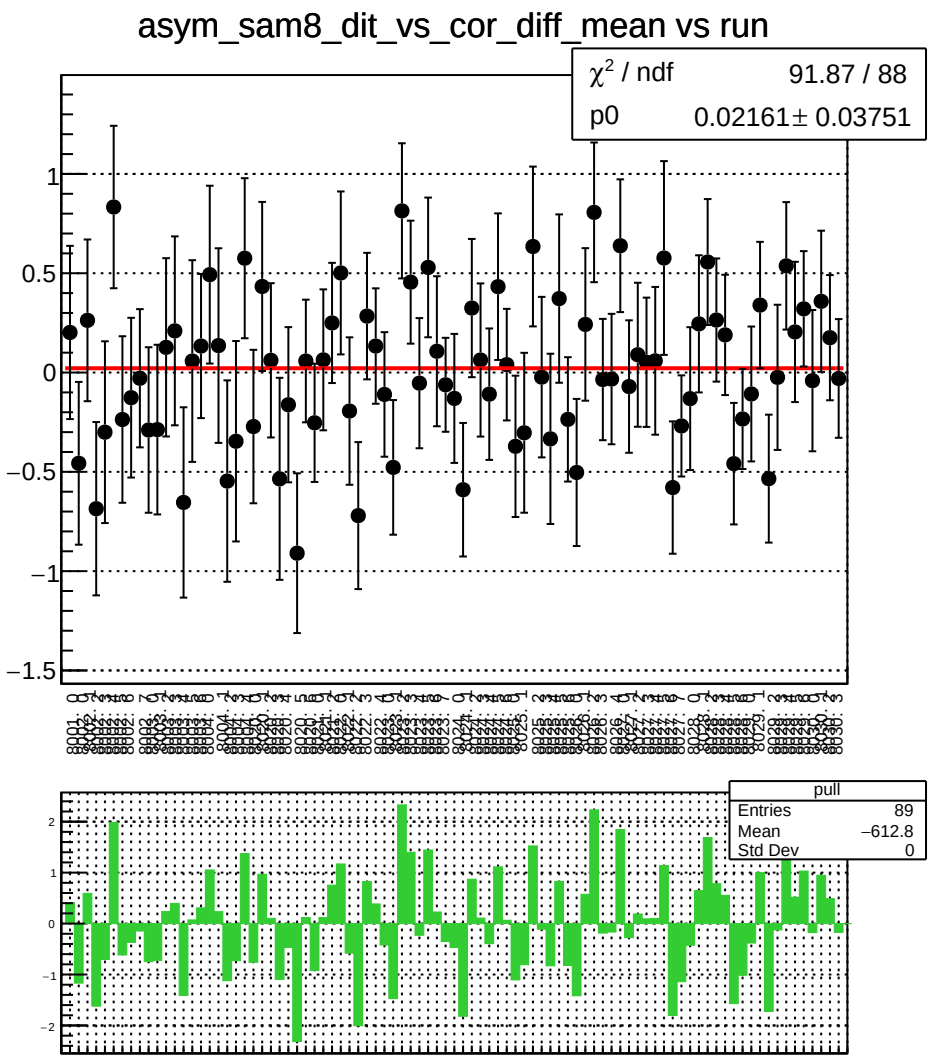

pull1D
Entries 89
Mean −0.01773
Std Dev 0.995
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

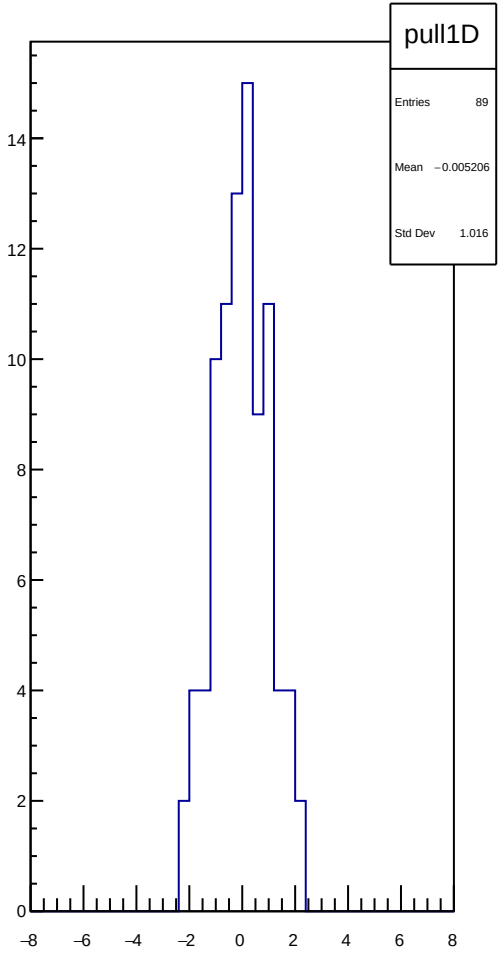

asym_sam8_rms vs run
χ² / ndf 2.368e+04 / 88
p0 533.9 ± 0.4082
700
650
600
550
500
450

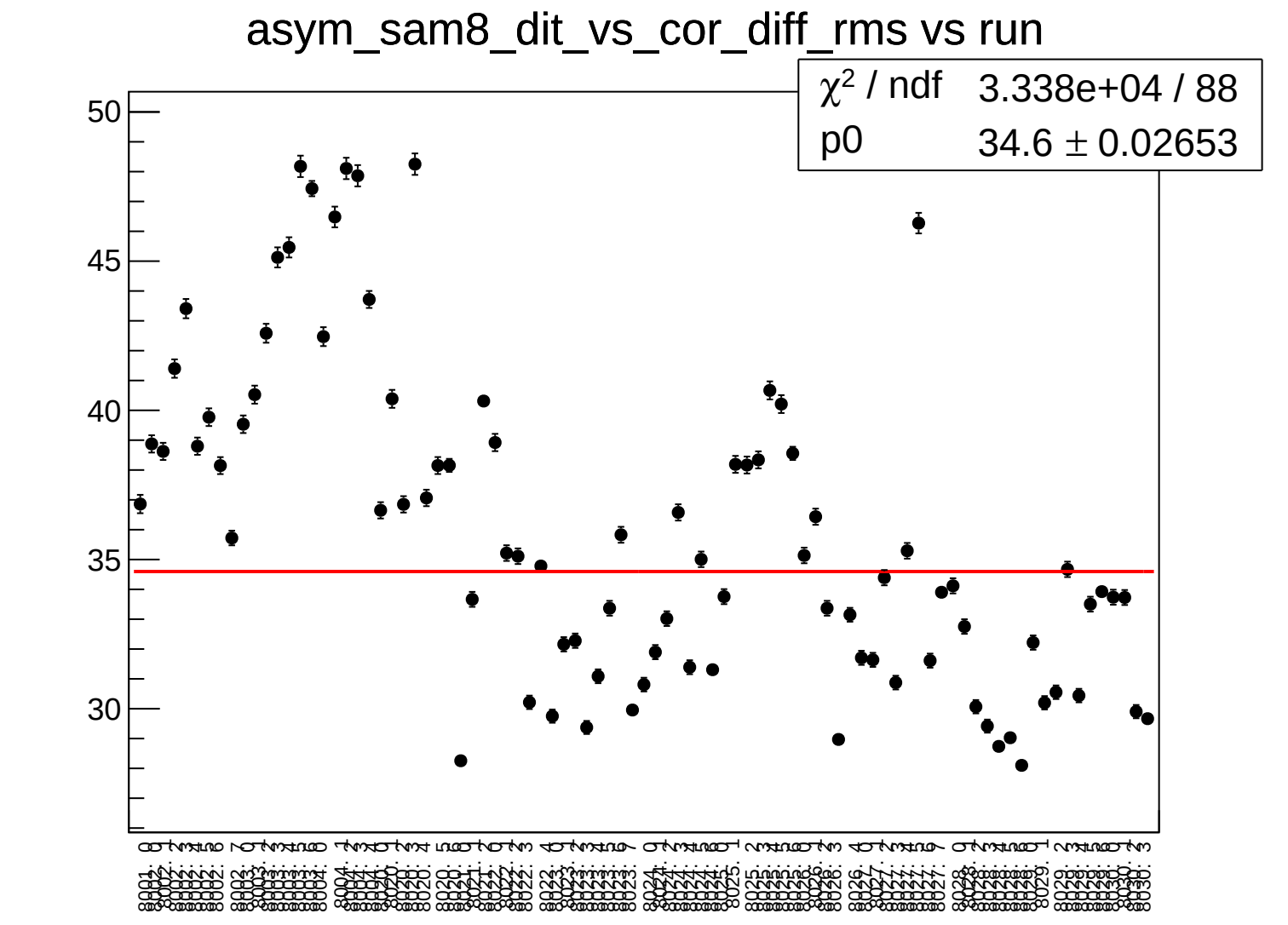

asym_sam8_reg_vs_cor_diff_mean vs run
χ² / ndf 99.39 / 88
p0 1.889e−13 ± 7.69e−14
pull
Entries 89
Mean 43.1
Std Dev 0

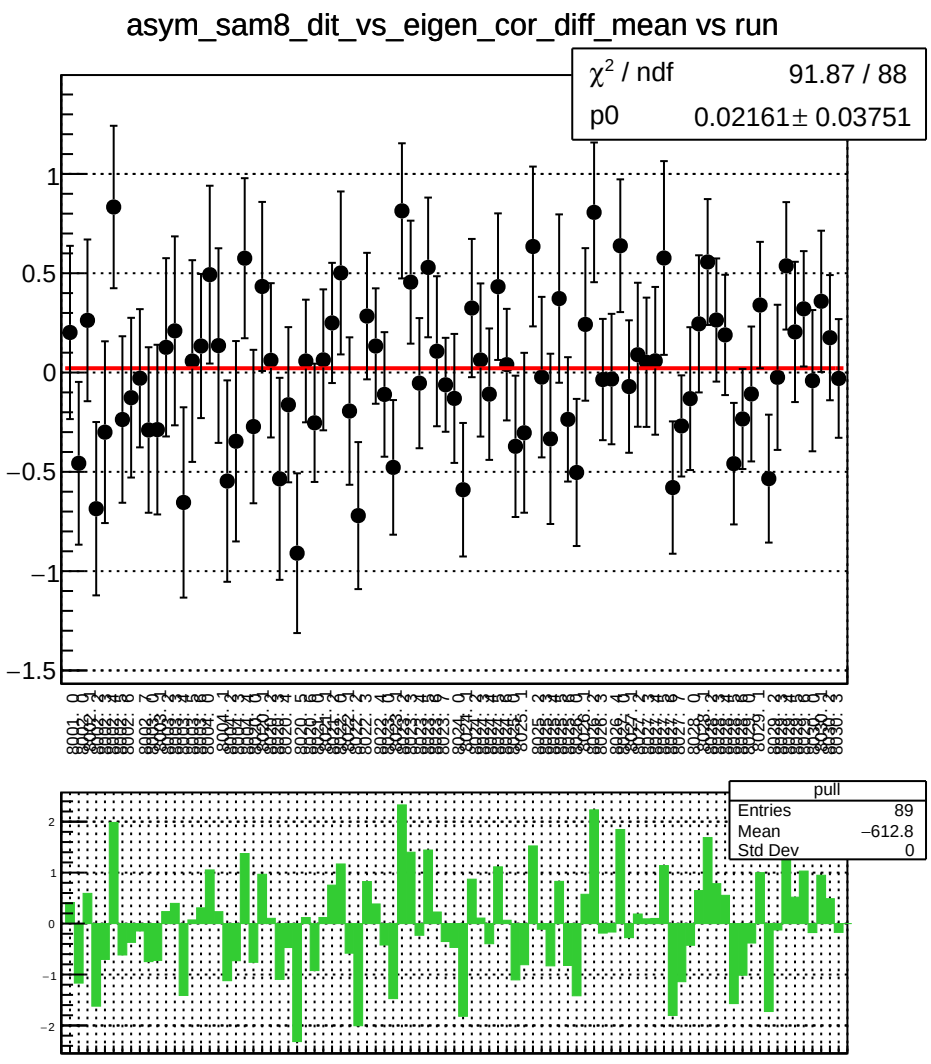

pull1D
Entries 89
Mean −0.01926
Std Dev 1.057

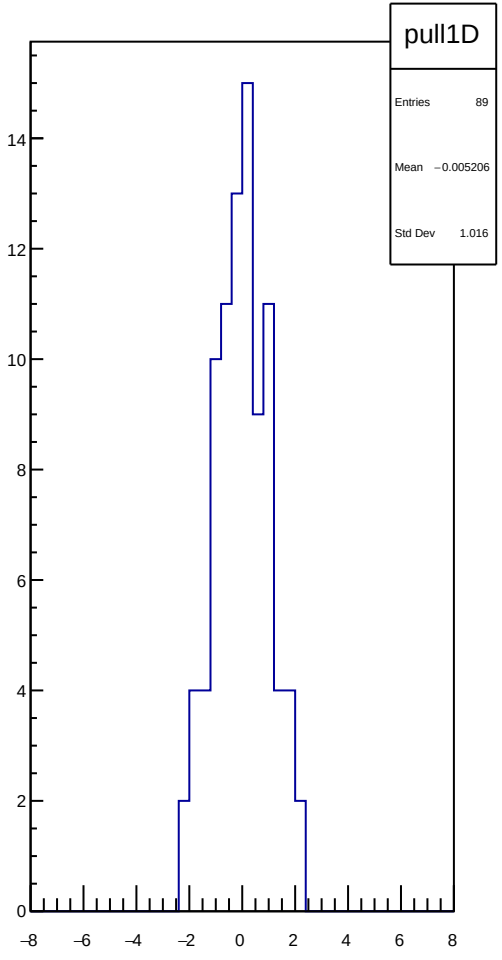

asym_sam8_reg_vs_cor_diff_rms vs run
χ² / ndf 1.026e+06 / 88
p0 4.576e−11 ± 5.438e−14
0.1
0.08
0.06
0.04
0.02
0

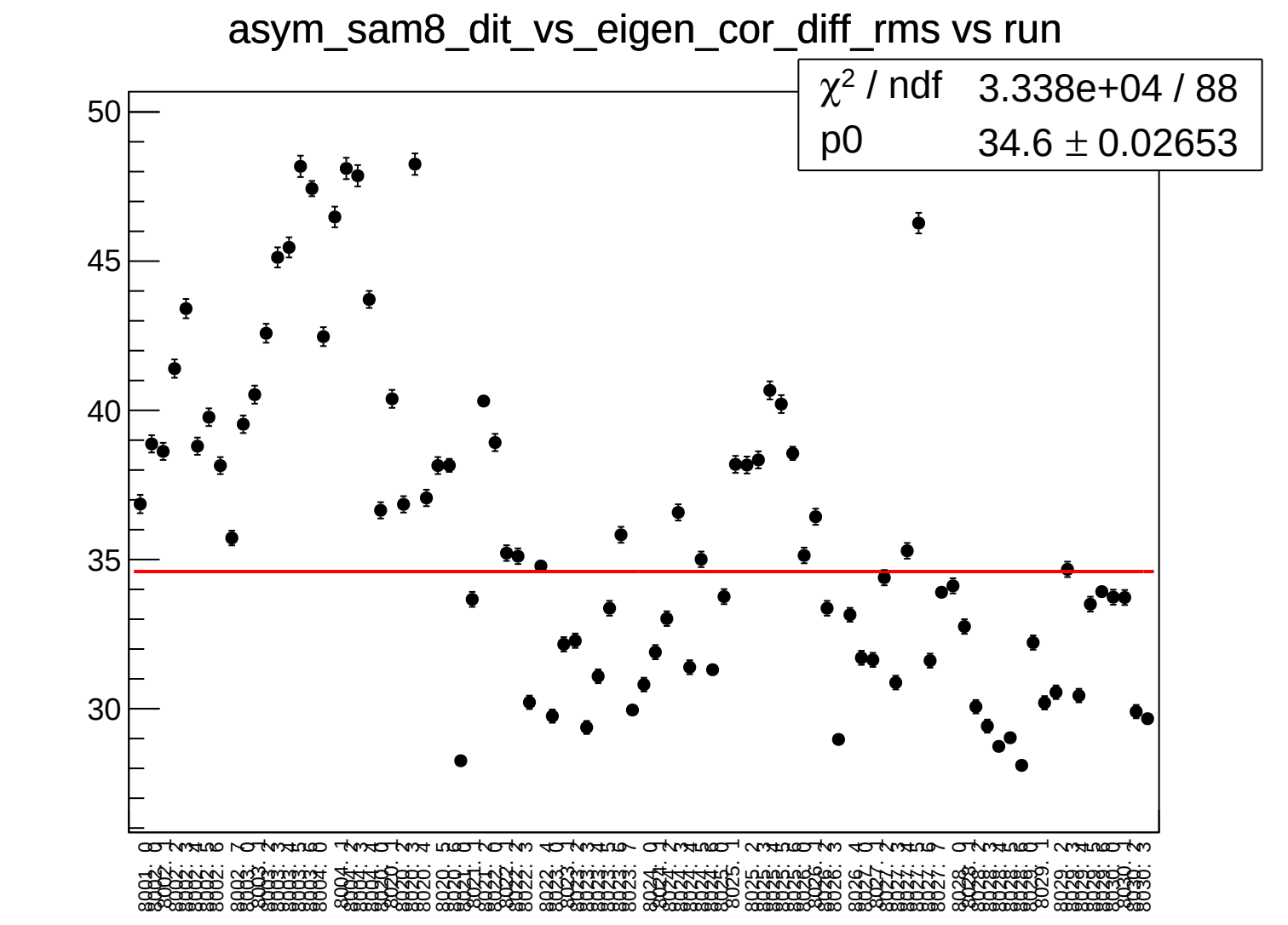

asym_sam8_dit_vs_cor_diff_mean vs run
χ² / ndf 91.87 / 88
p0 0.02161± 0.03751
pull
Entries 89
Mean −612.8
Std Dev 0

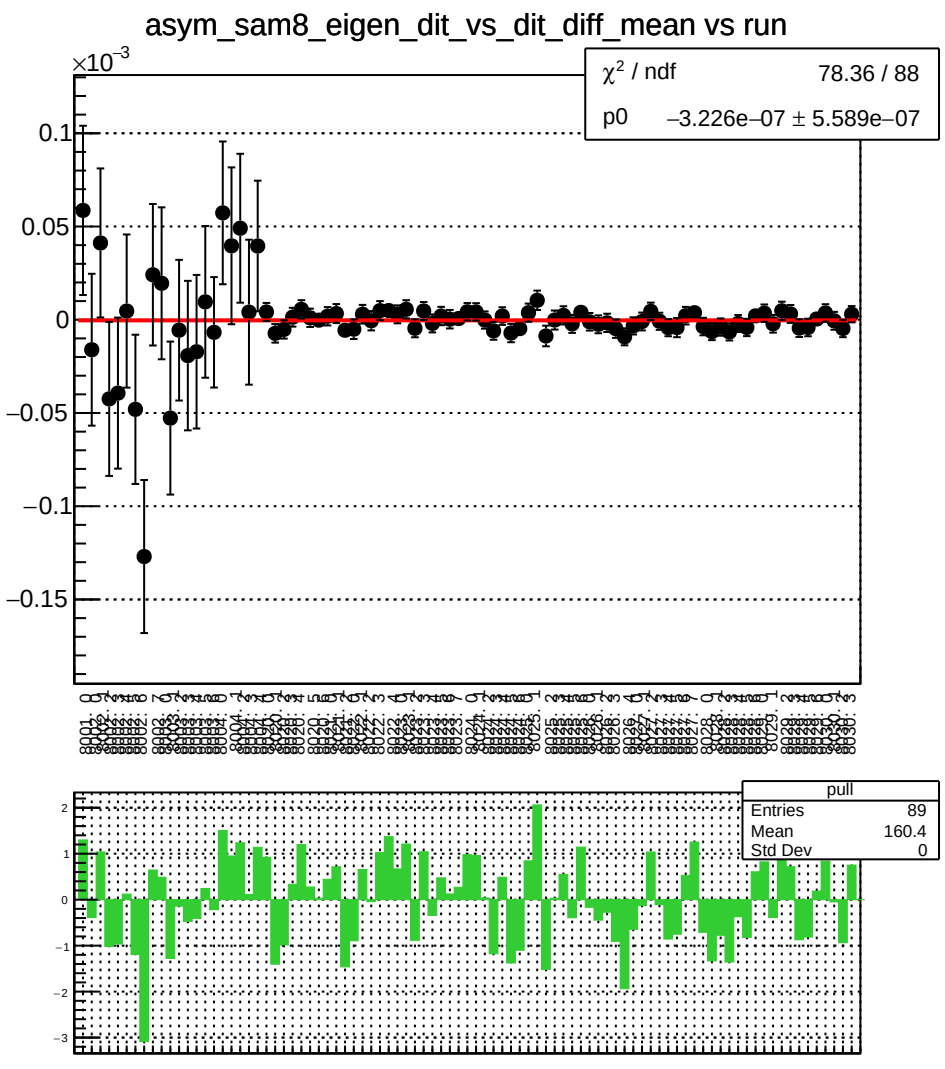

pull1D
Entries 89
Mean −0.005206
Std Dev 1.016

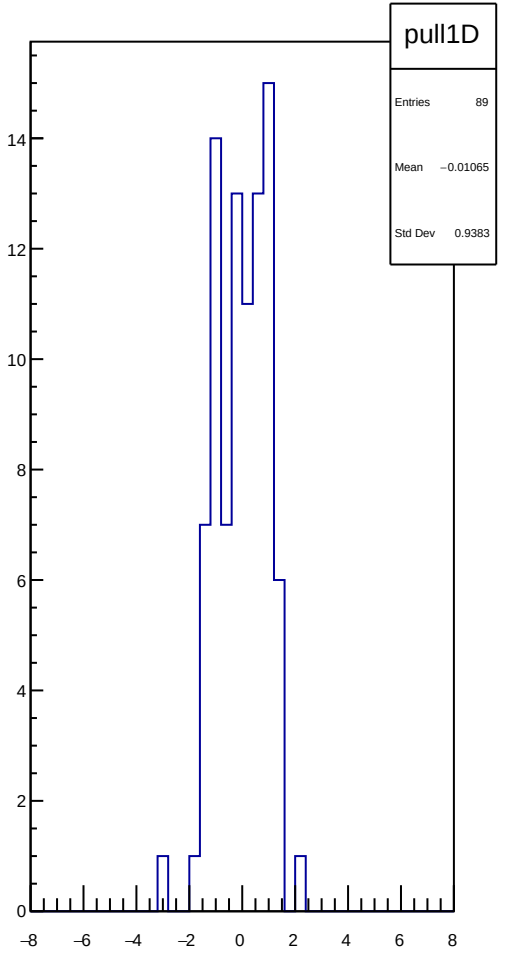

asym_sam8_dit_vs_cor_diff_rms vs run
χ² / ndf 3.338e+04 / 88
p0 34.6 ± 0.02653
50
45
40
35
30

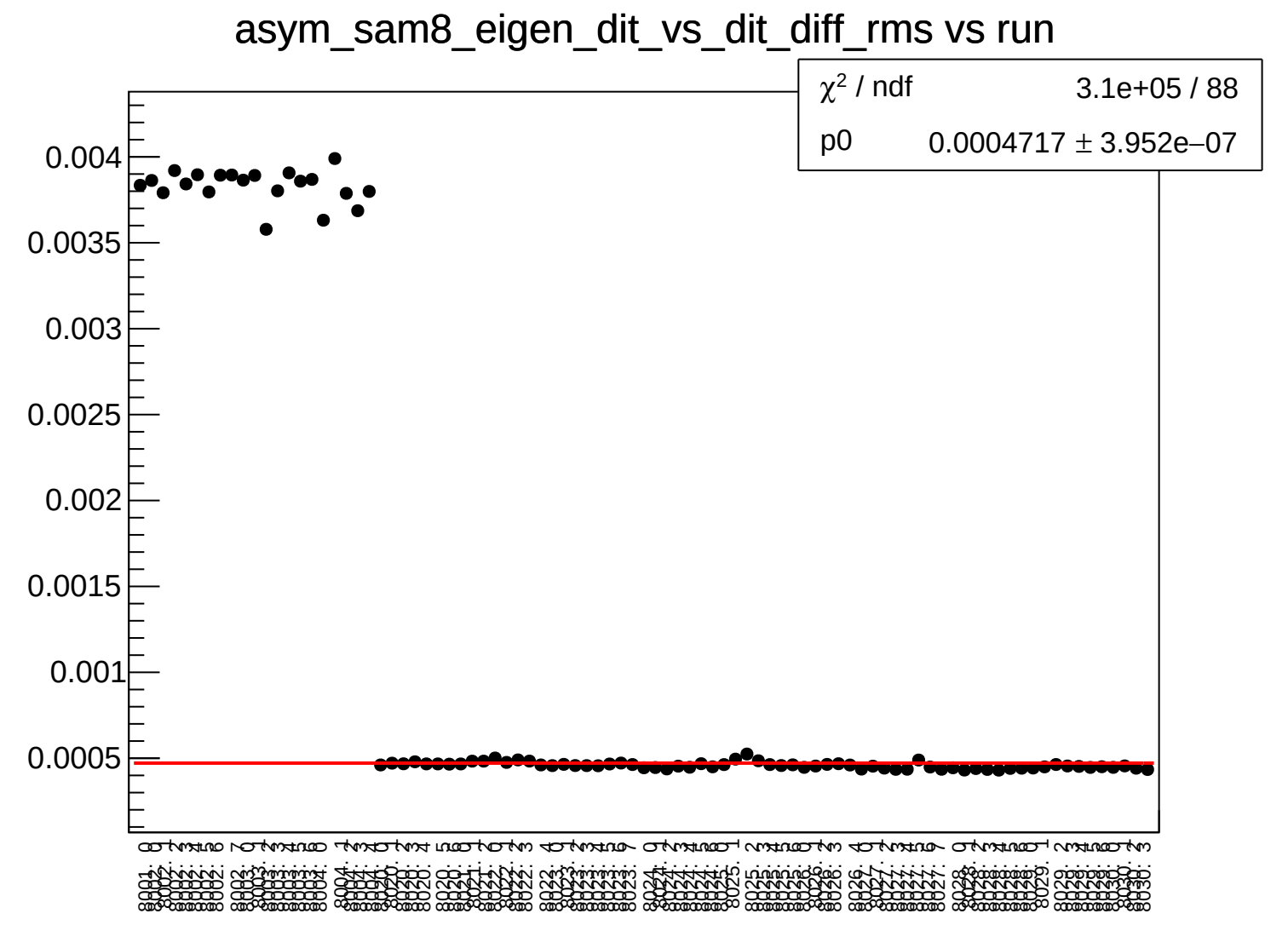

asym_sam8_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.87 / 88
p0 0.02161± 0.03751
pull
Entries 89
Mean −612.8
Std Dev 0

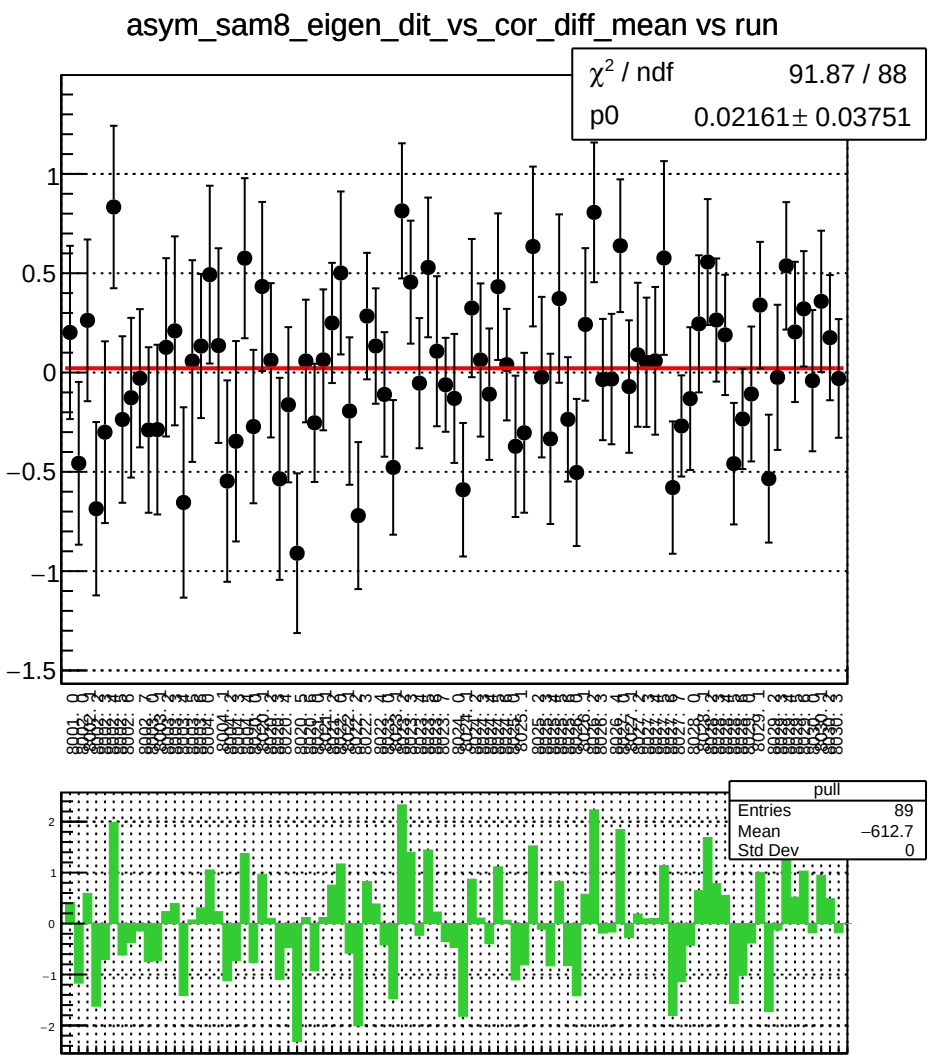

pull1D
Entries 89
Mean −0.005206
Std Dev 1.016

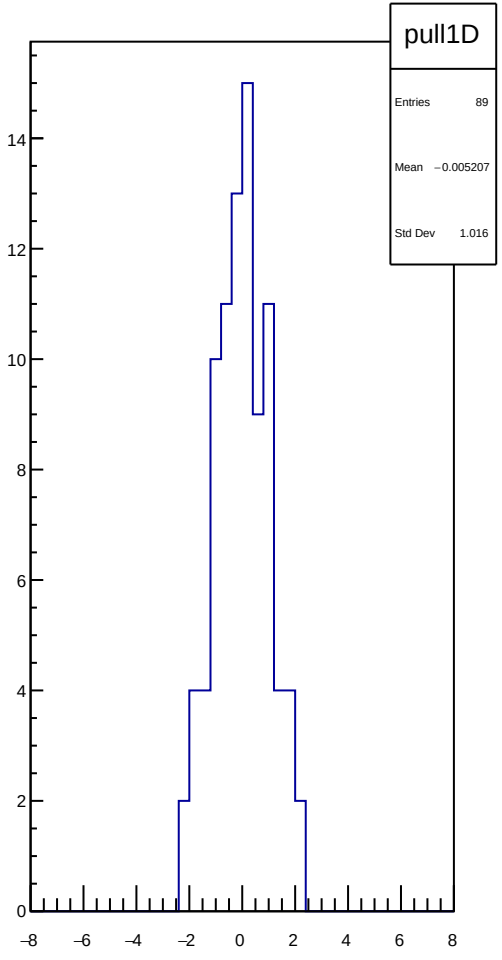

asym_sam8_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.338e+04 / 88
p0 34.6 ± 0.02653
50
45
40
35
30

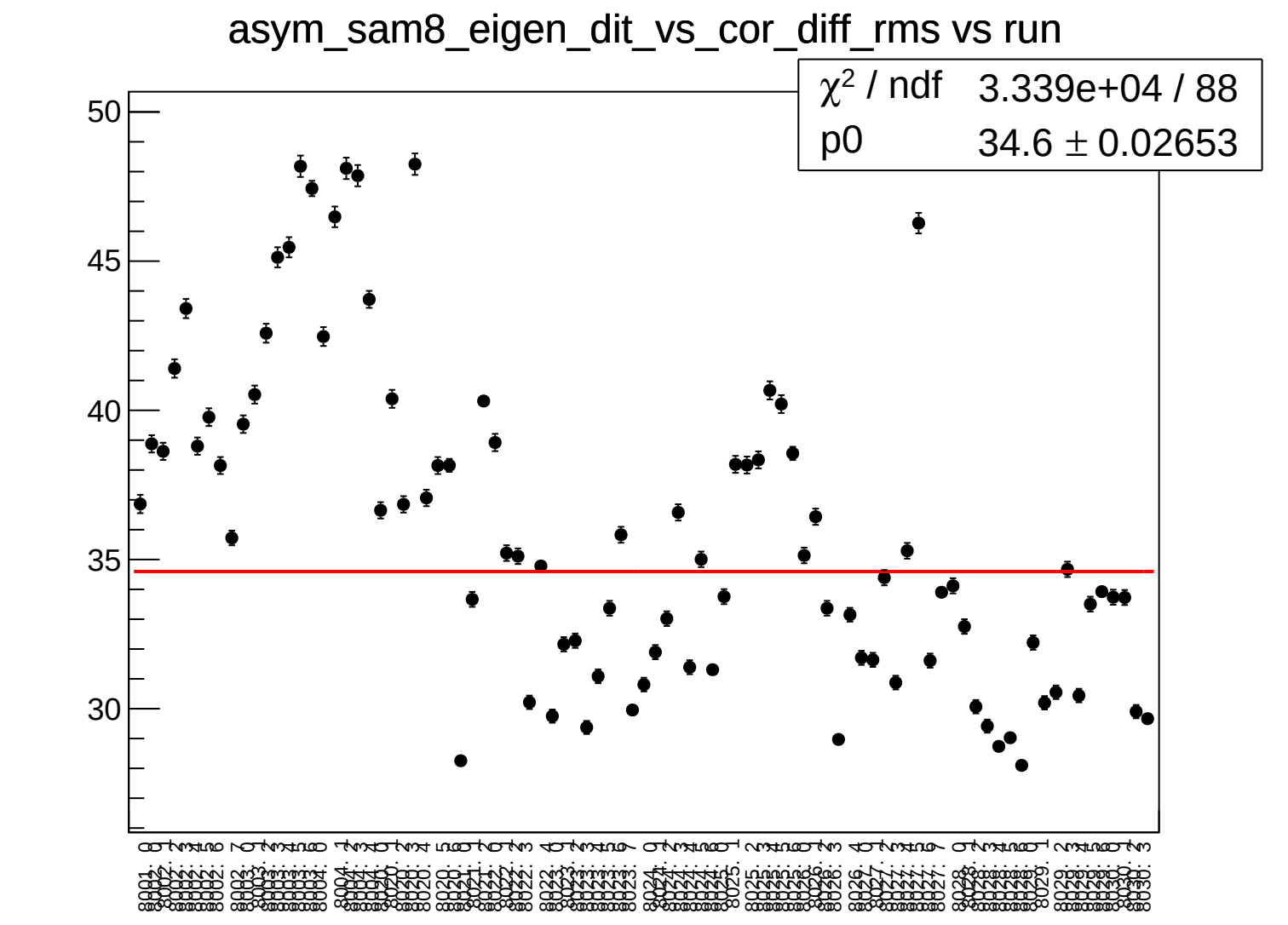

asym_sam8_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78.36 / 88
p0 −3.226e−07 ± 5.589e−07
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 89
Mean 160.4
Std Dev 0
2
1
0
−1
−2
−3

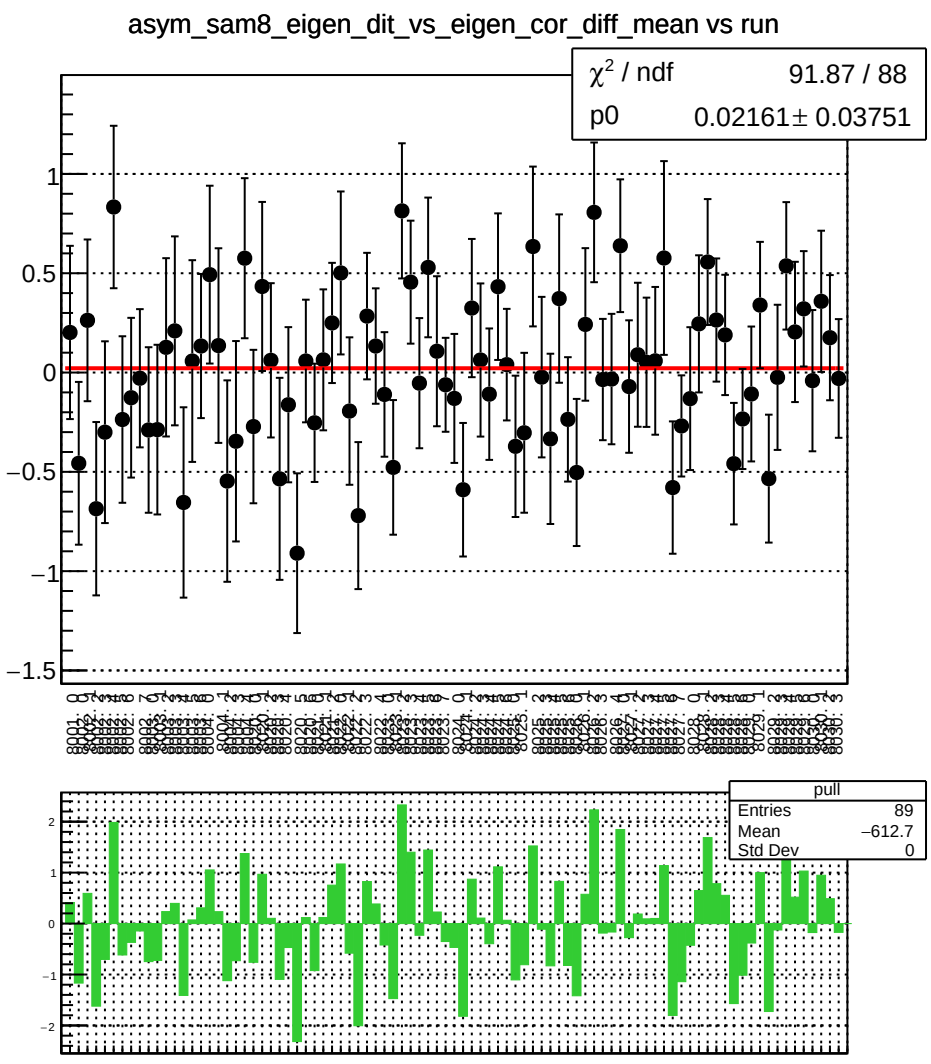

pull1D
Entries 89
Mean −0.01065
Std Dev 0.9383
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

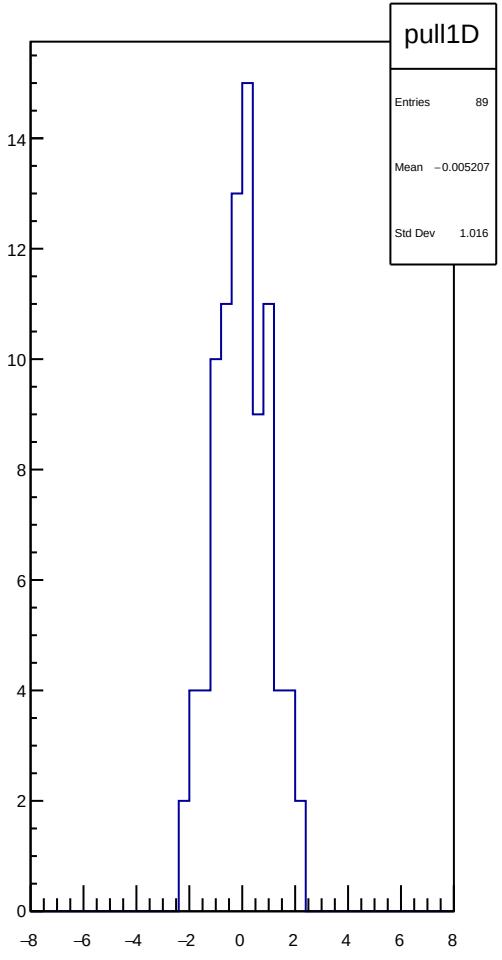

asym_sam8_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.1e+05 / 88
p0 0.0004717 ± 3.952e−07
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005

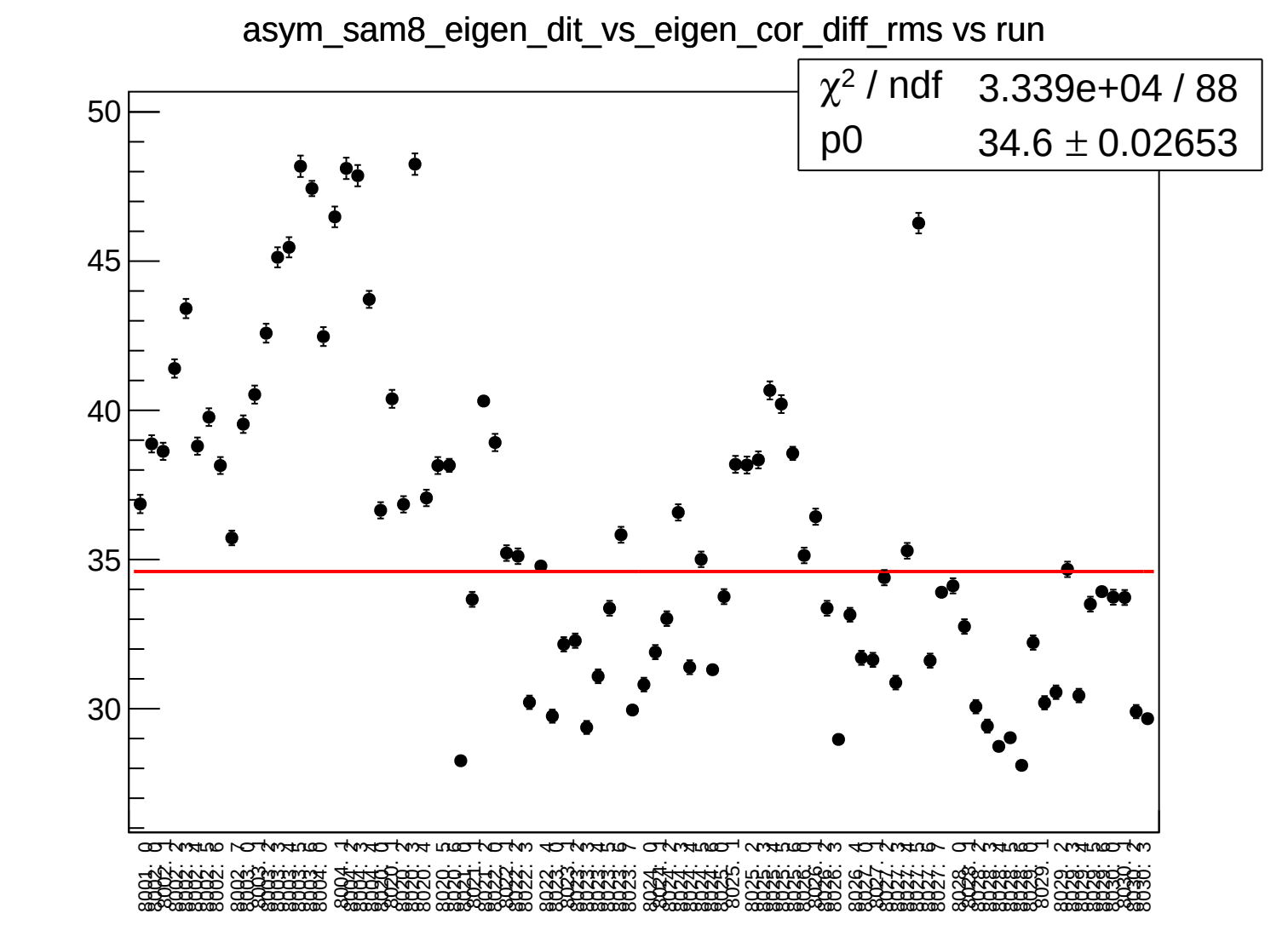

asym_sam8_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.87 / 88
p0 0.02161± 0.03751
pull
Entries 89
Mean −612.7
Std Dev 0

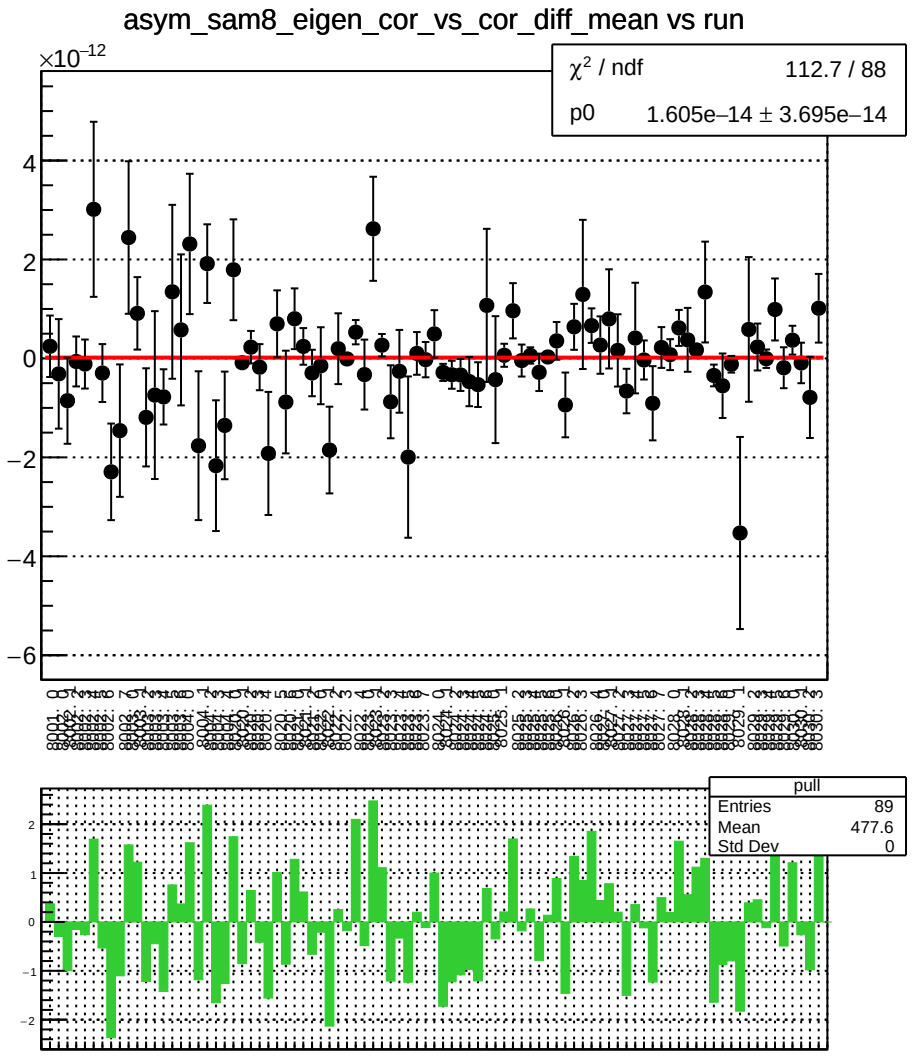

pull1D
Entries 89
Mean −0.005207
Std Dev 1.016

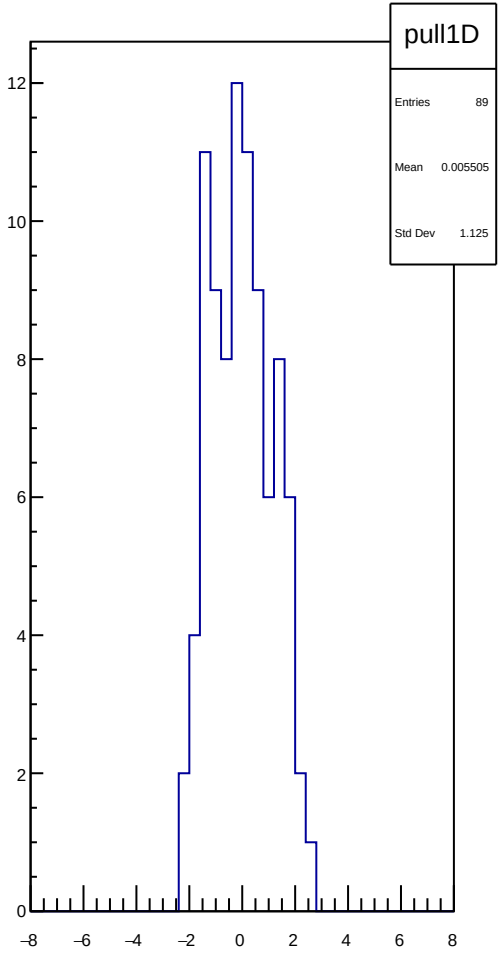

asym_sam8_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.339e+04 / 88
p0 34.6 ± 0.02653
50
45
40
35
30

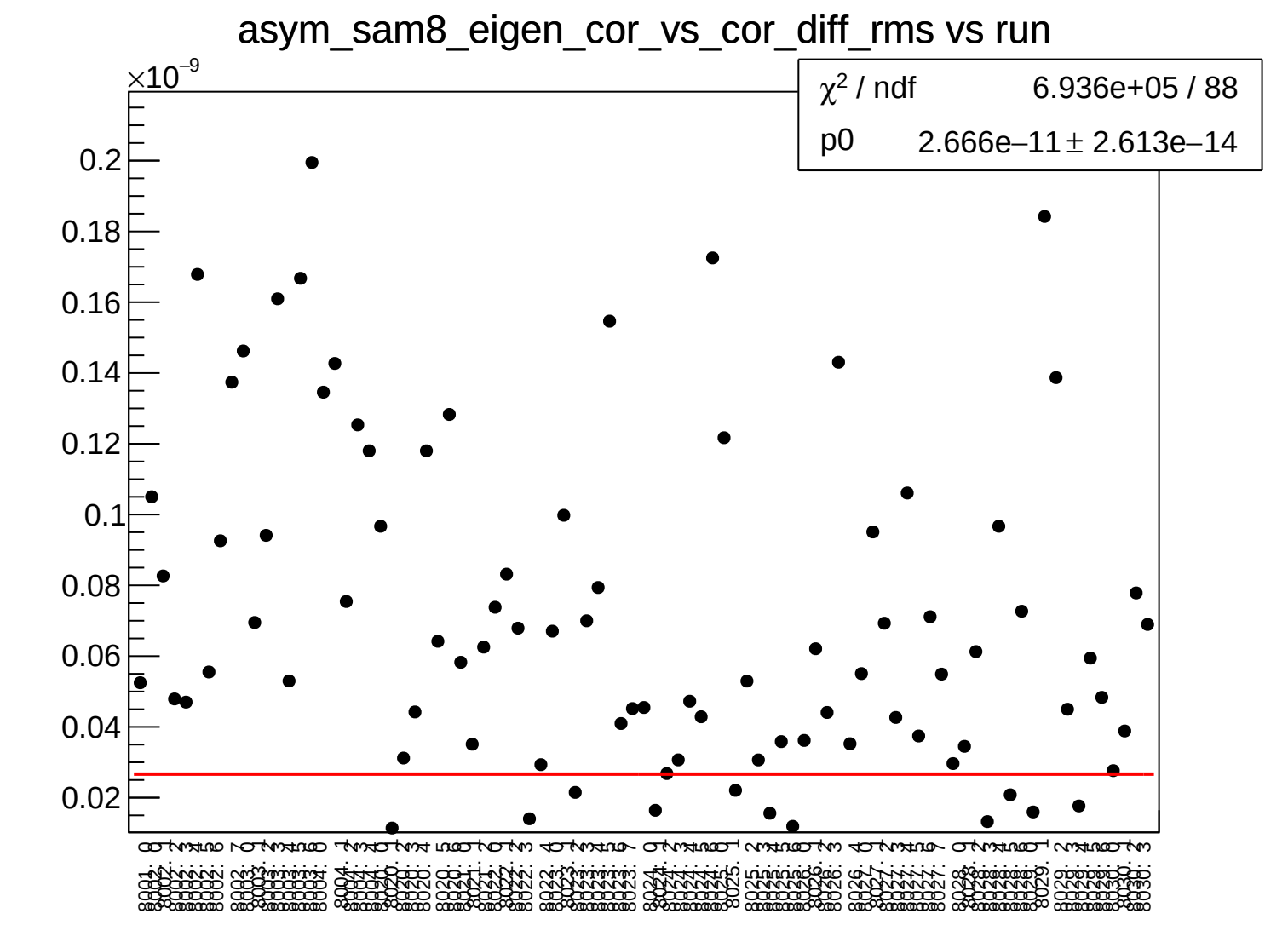

asym_sam8_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.87 / 88
p0 0.02161± 0.03751
pull
Entries 89
Mean −612.7
Std Dev 0

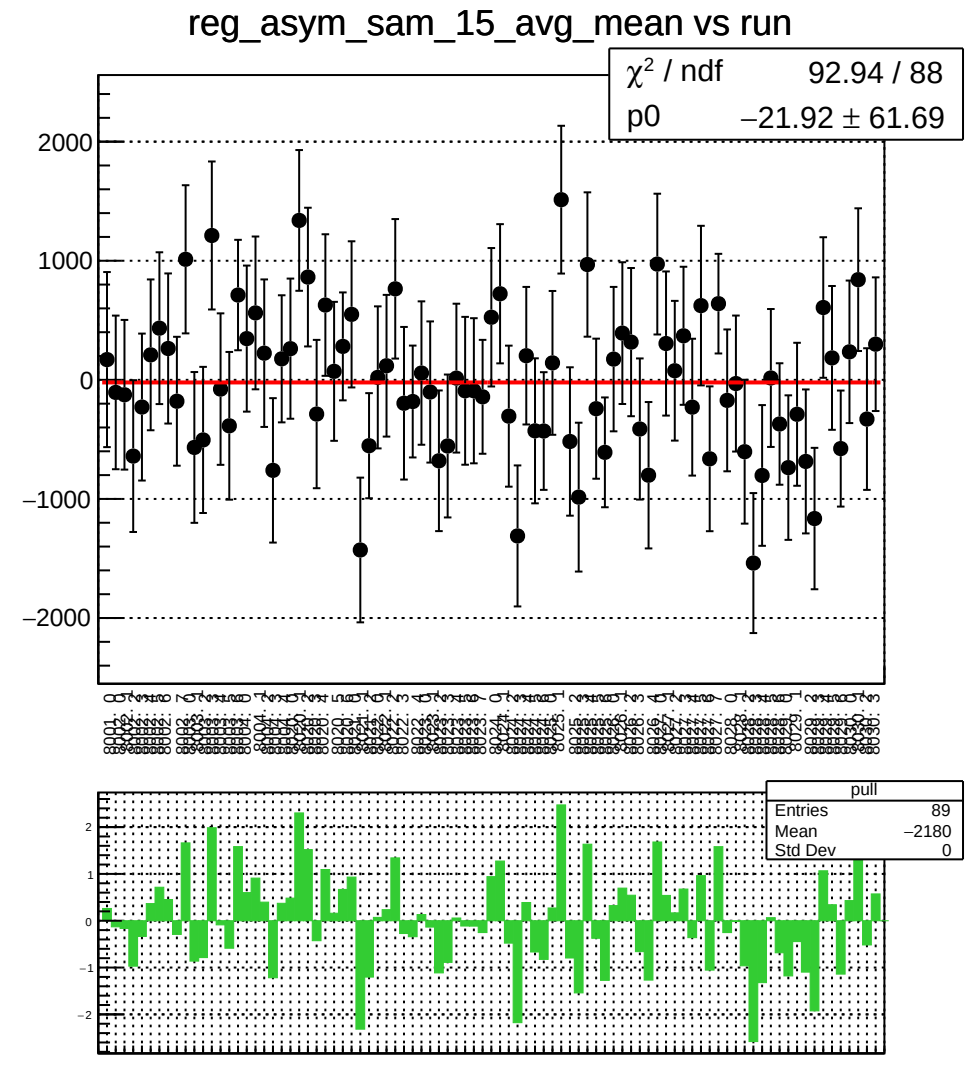

pull1D
Entries 89
Mean −0.005207
Std Dev 1.016

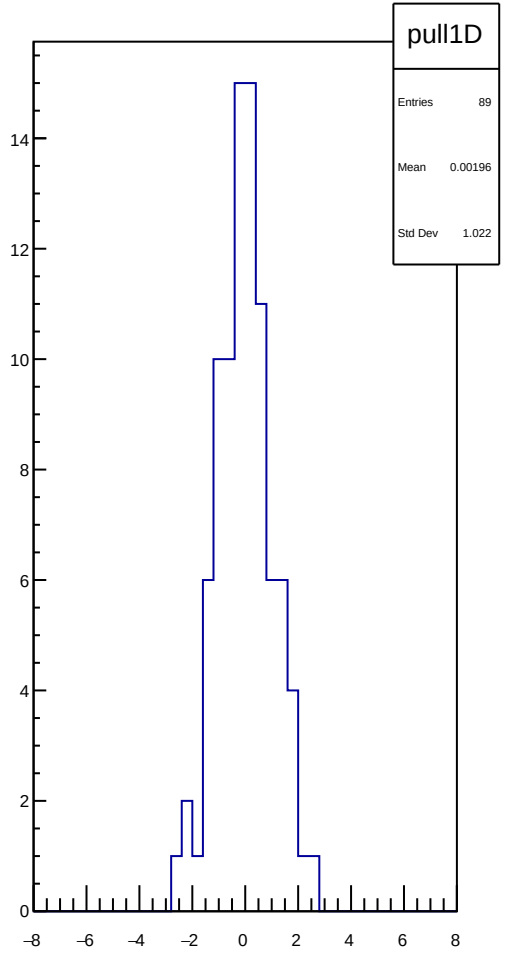

asym_sam8_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.339e+04 / 88
p0 34.6 ± 0.02653
50
45
40
35
30

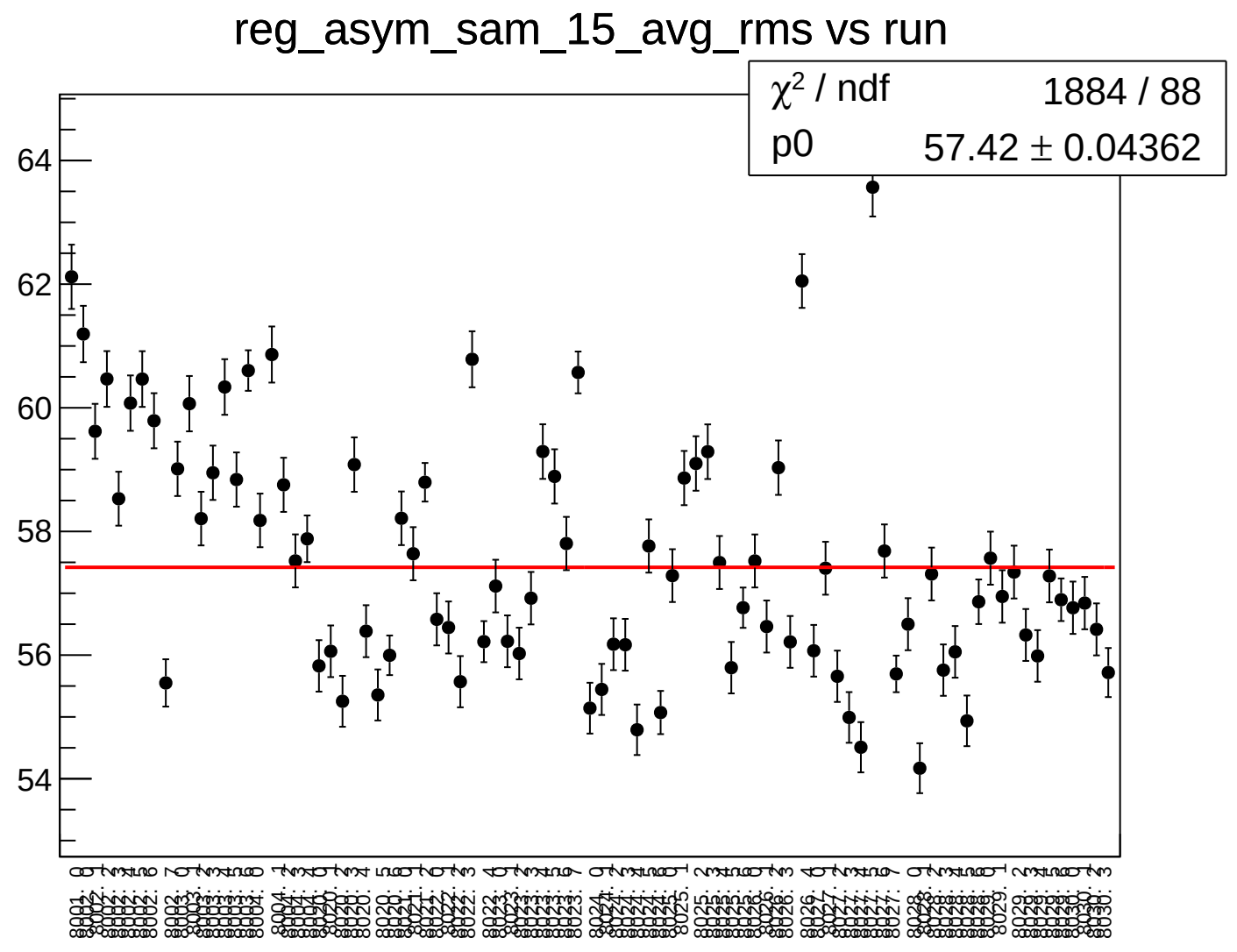

asym_sam8_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 112.7 / 88
p0 1.605e−14 ± 3.695e−14
pull
Entries 89
Mean 477.6
Std Dev 0

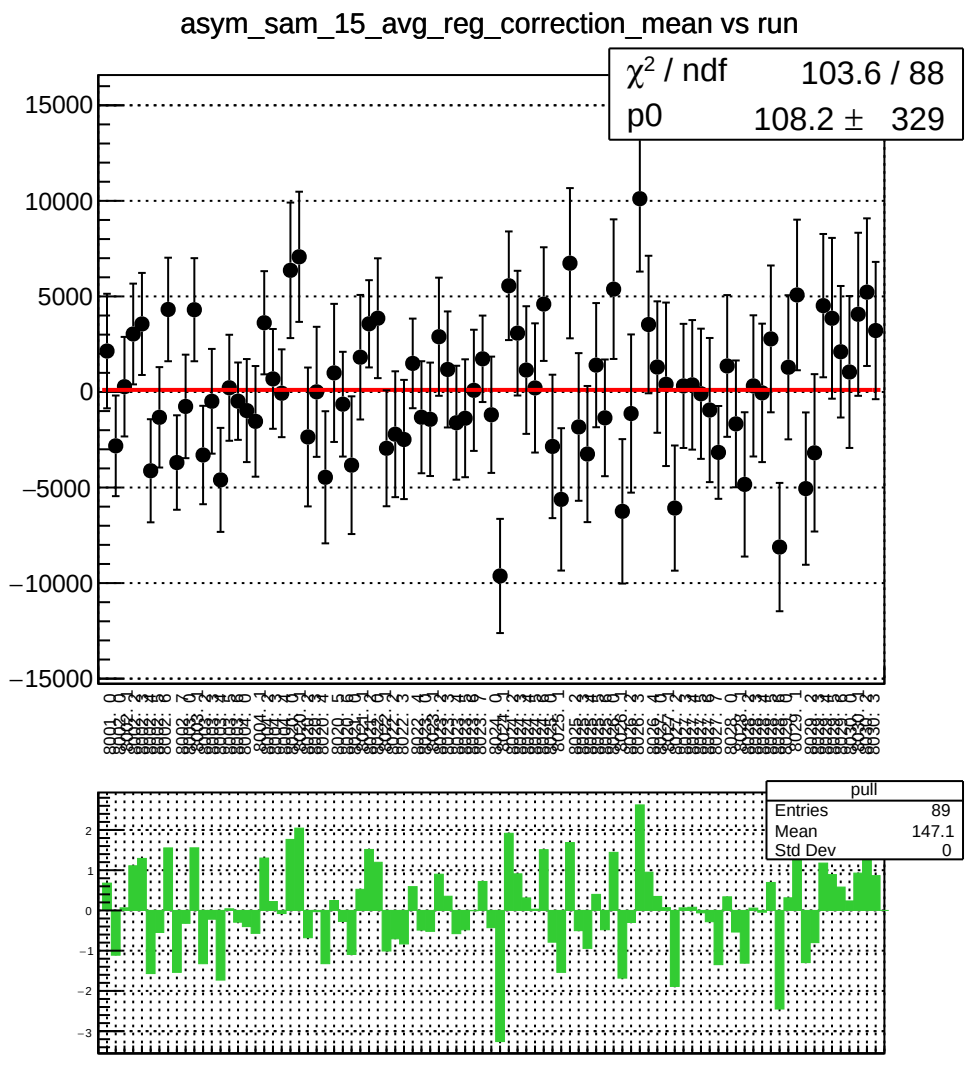

pull1D
Entries 89
Mean 0.005505
Std Dev 1.125

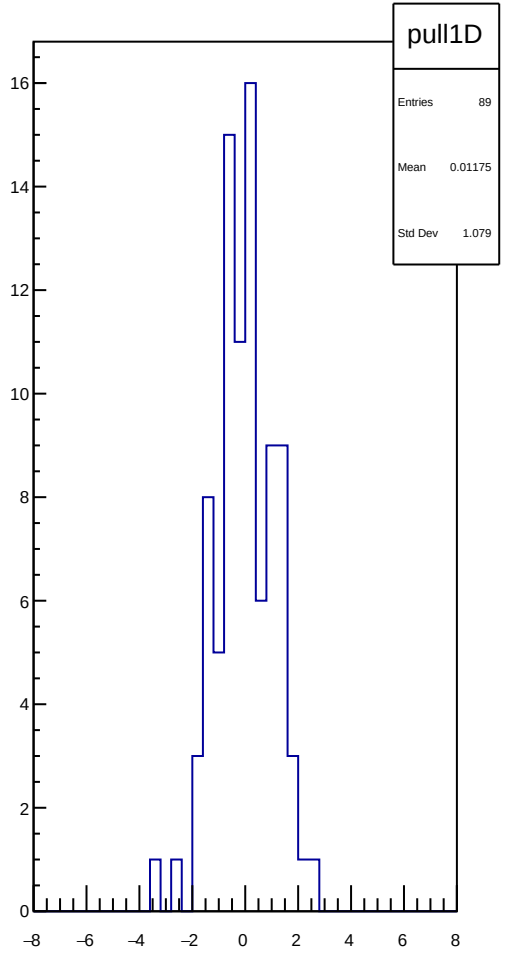

asym_sam8_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.936e+05 / 88
p0 2.666e−11 ± 2.613e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

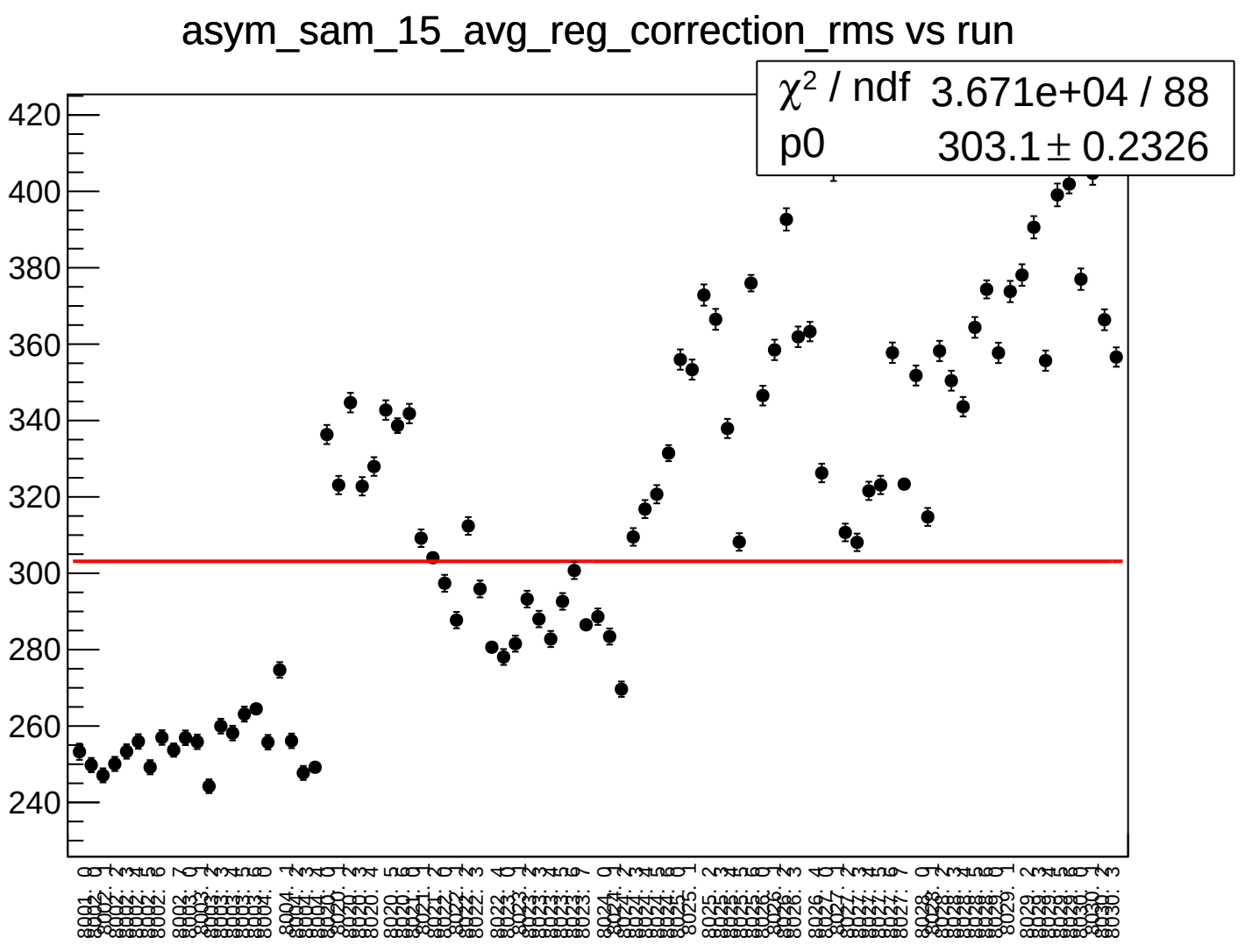

reg_asym_sam_15_avg_mean vs run
χ² / ndf 92.94 / 88
p0 −21.92 ± 61.69
2000
1000
0
−1000
−2000
pull
Entries 89
Mean −2180
Std Dev 0
2
1
0
−1
−2

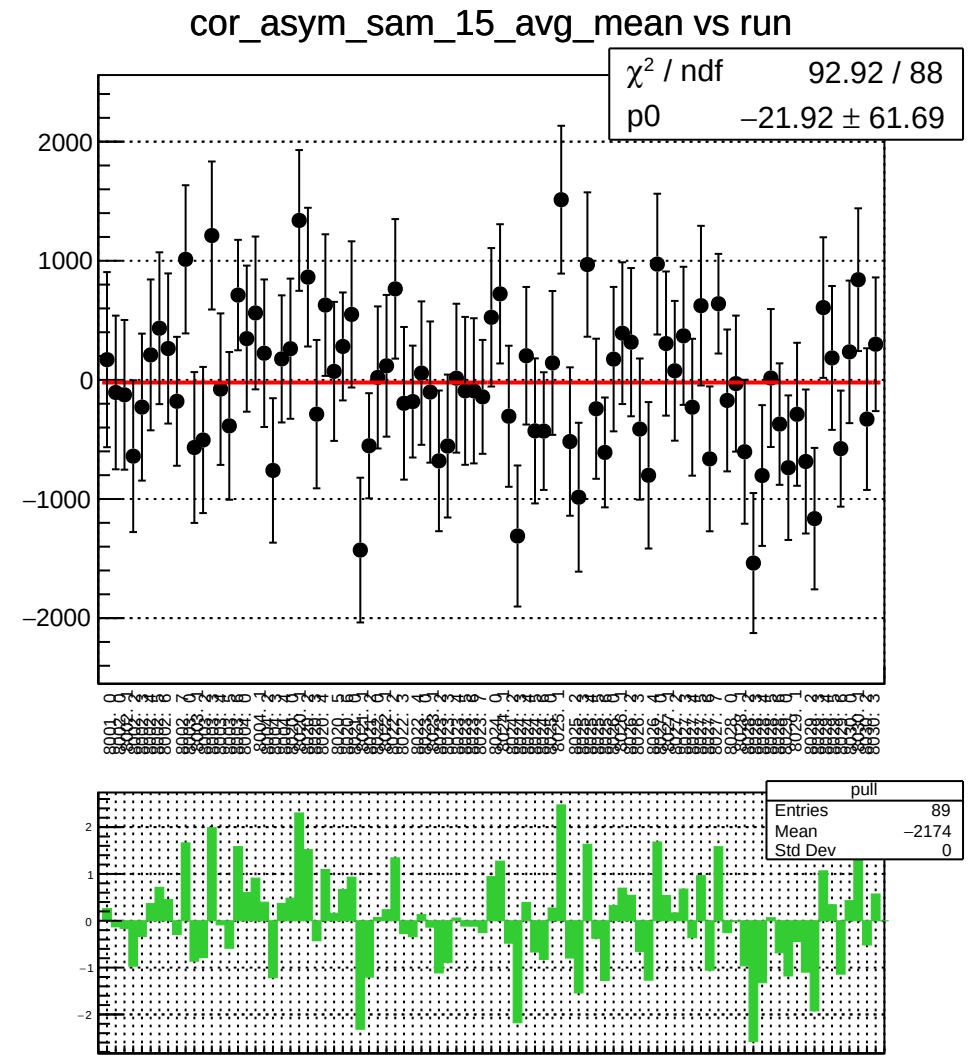

pull1D
Entries 89
Mean 0.00196
Std Dev 1.022
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

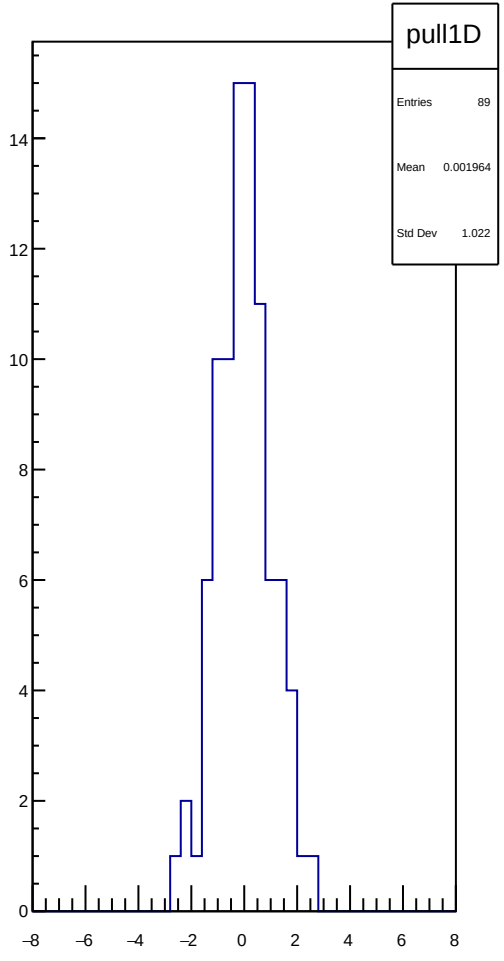

reg_asym_sam_15_avg_rms vs run
χ^2 / ndf 1884 / 88
p0 57.42 ± 0.04362
64
62
60
58
56
54

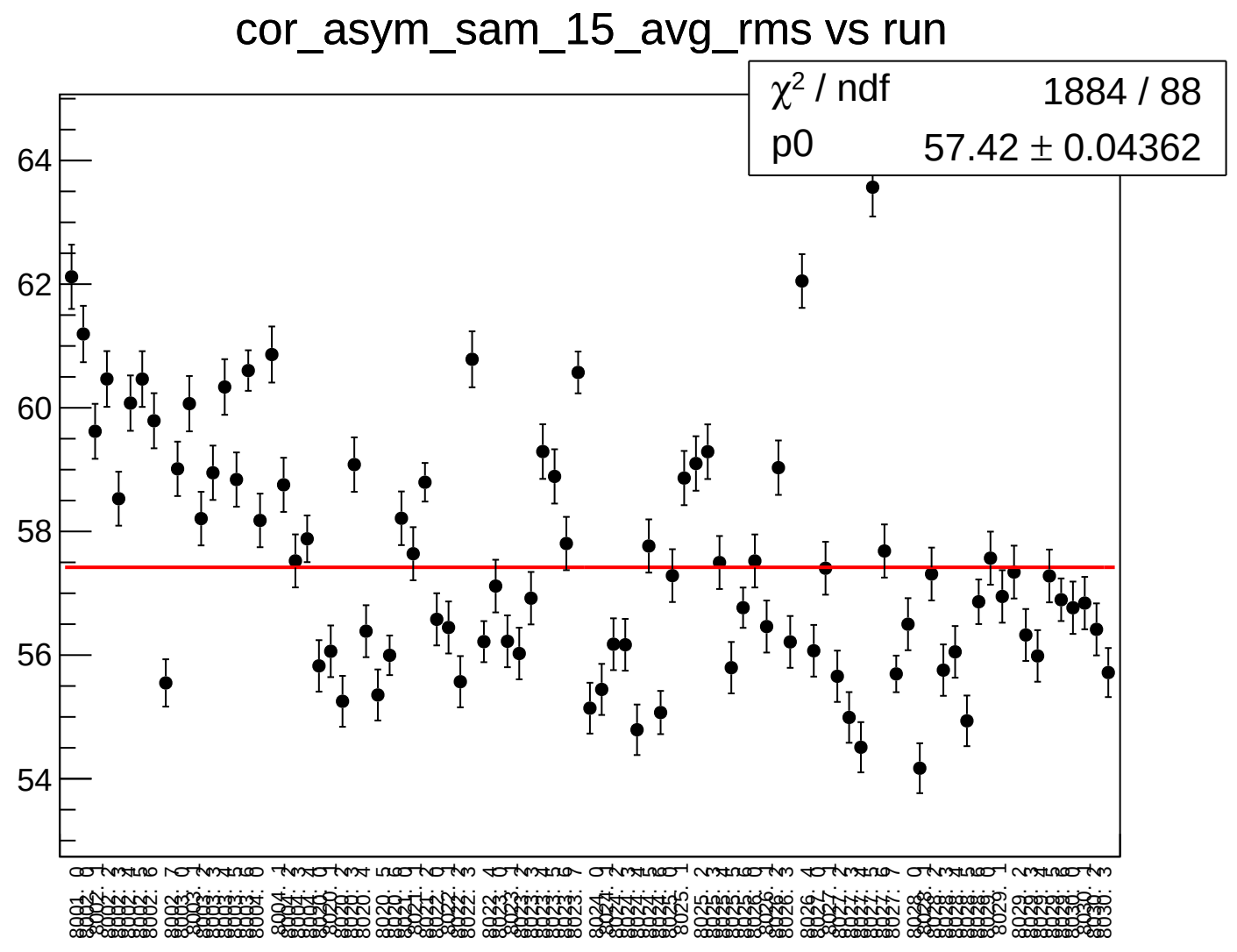

asym_sam_15_avg_reg_correction_mean vs run
χ² / ndf 103.6 / 88
p0 108.2 ± 329
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 147.1
Std Dev 0
2
1
0
−1
−2
−3

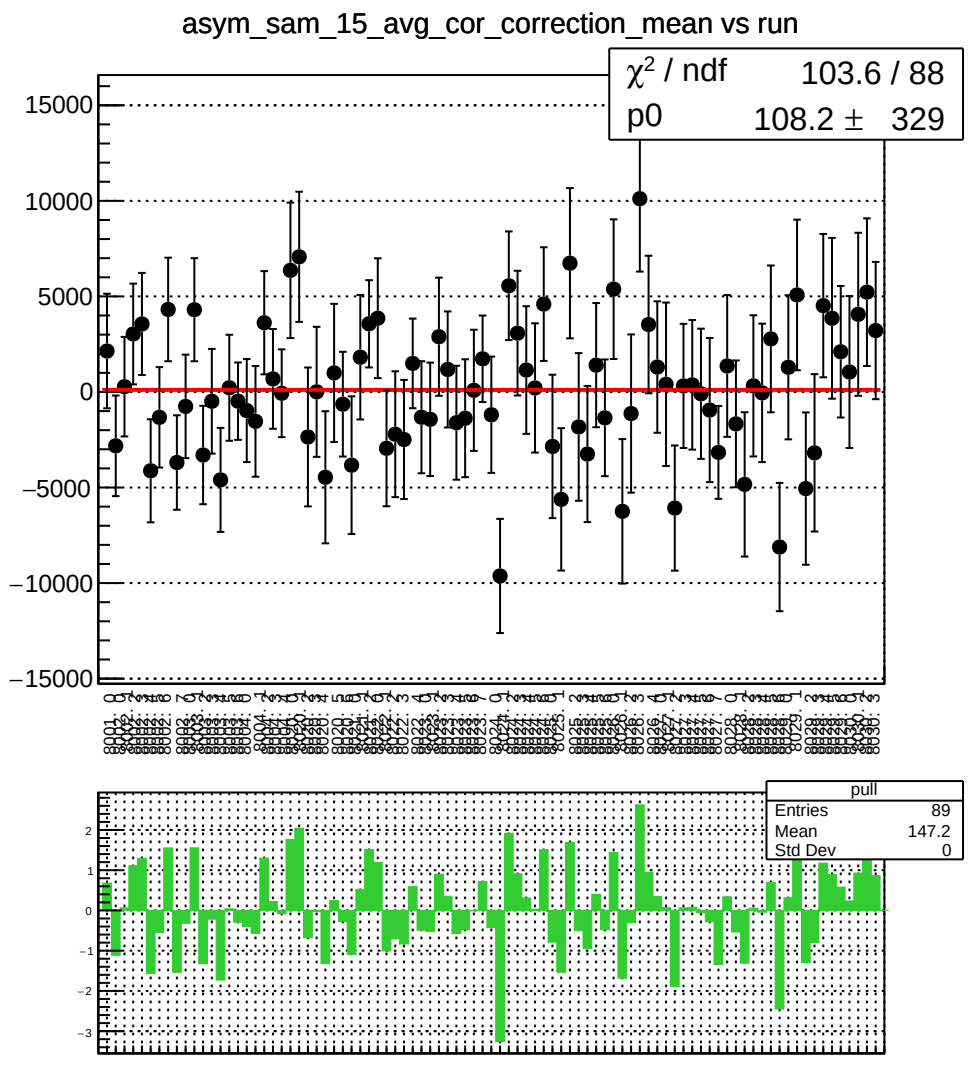

pull1D
Entries 89
Mean 0.01175
Std Dev 1.079
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

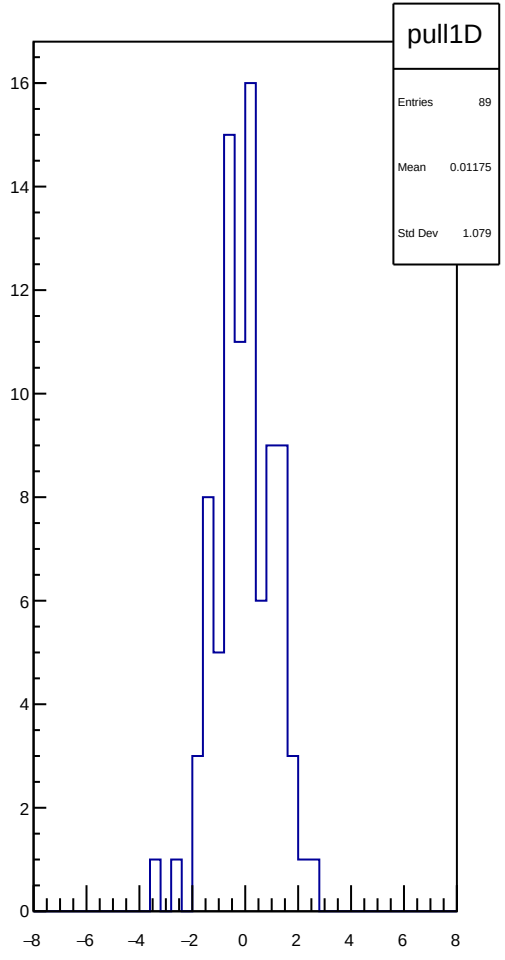

asym_sam_15_avg_reg_correction_rms vs run
χ² / ndf 3.671e+04 / 88
p0 303.1 ± 0.2326
420
400
380
360
340
320
300
280
260
240

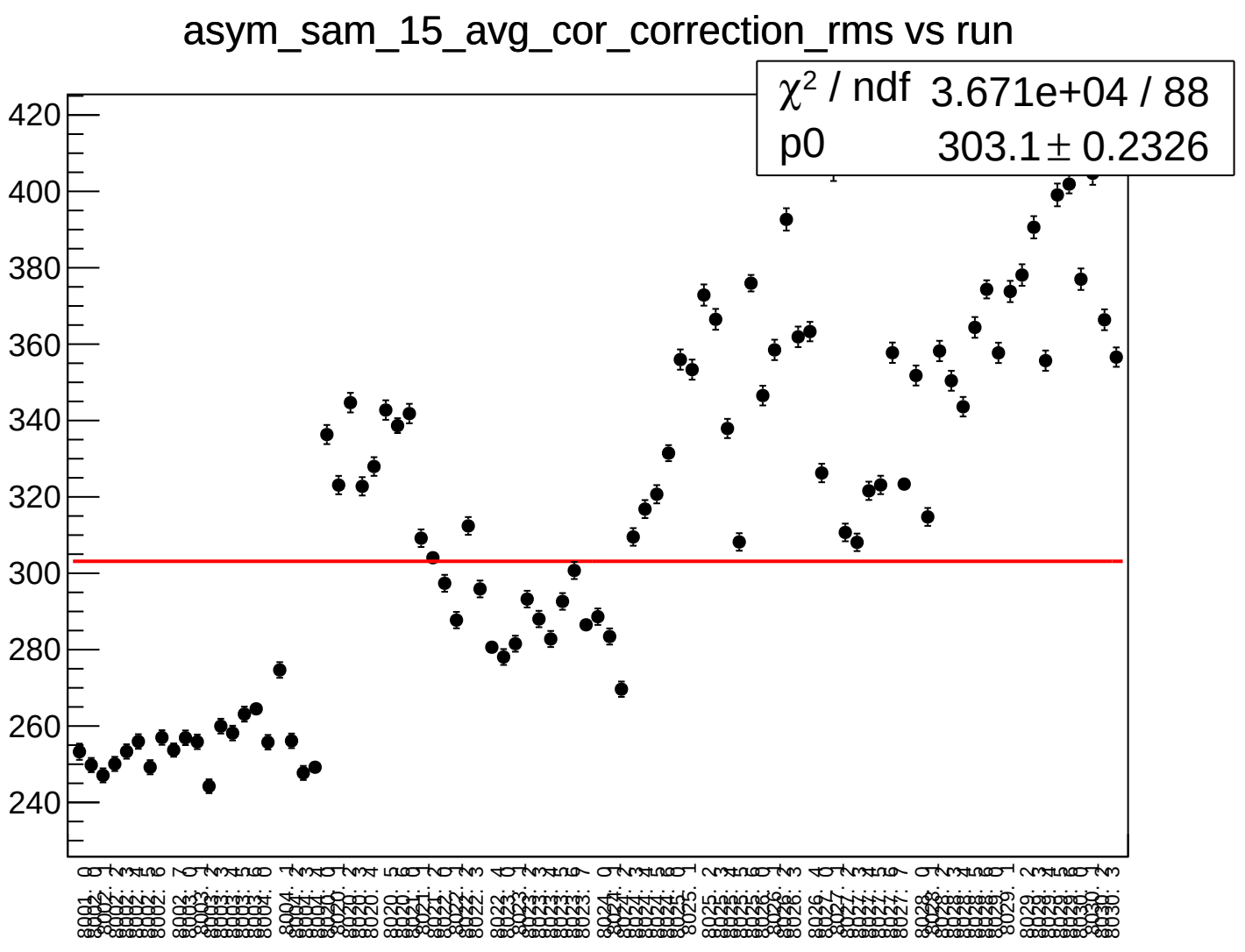

cor_asym_sam_15_avg_mean vs run
χ² / ndf 92.92 / 88
p0 −21.92 ± 61.69
2000
1000
0
−1000
−2000
pull
Entries 89
Mean −2174
Std Dev 0
2
1
0
−1
−2

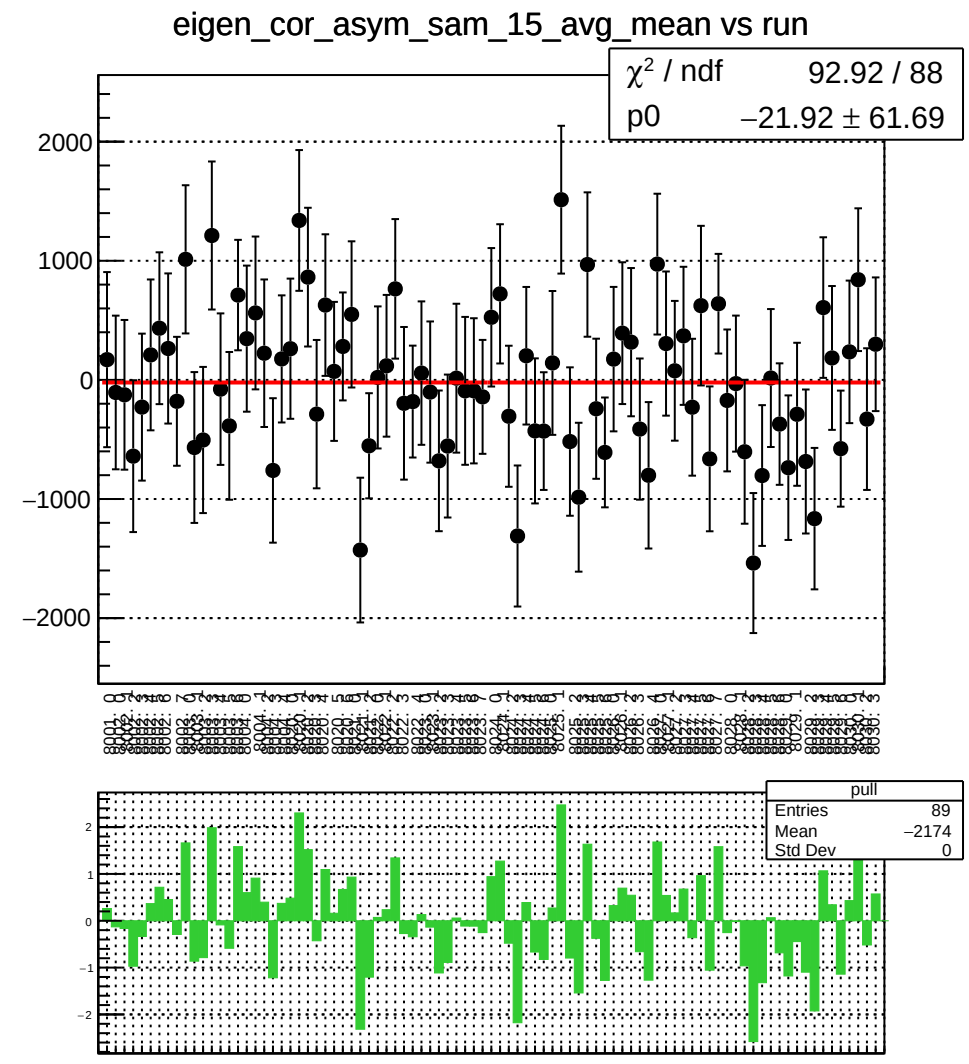

pull1D
Entries 89
Mean 0.001964
Std Dev 1.022
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

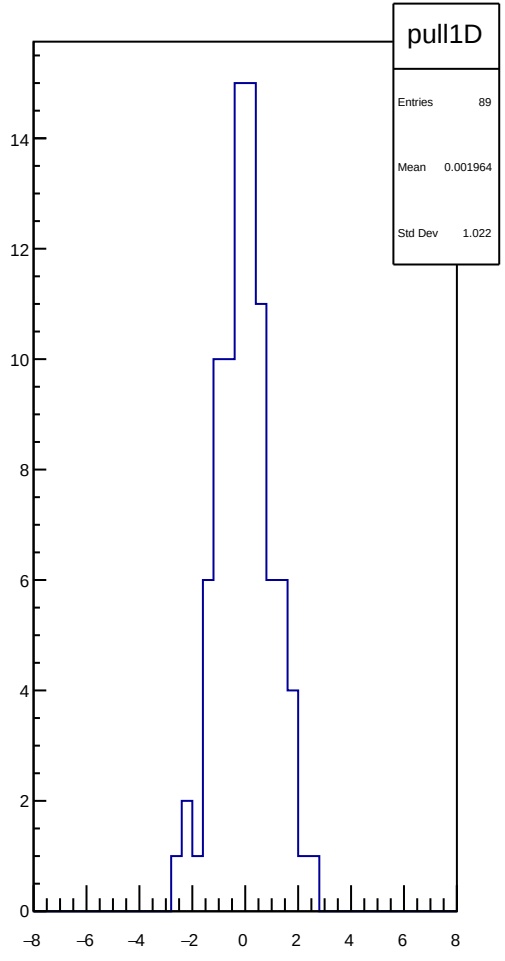

cor_asym_sam_15_avg_rms vs run
χ^2 / ndf 1884 / 88
p0 57.42 ± 0.04362
64
62
60
58
56
54

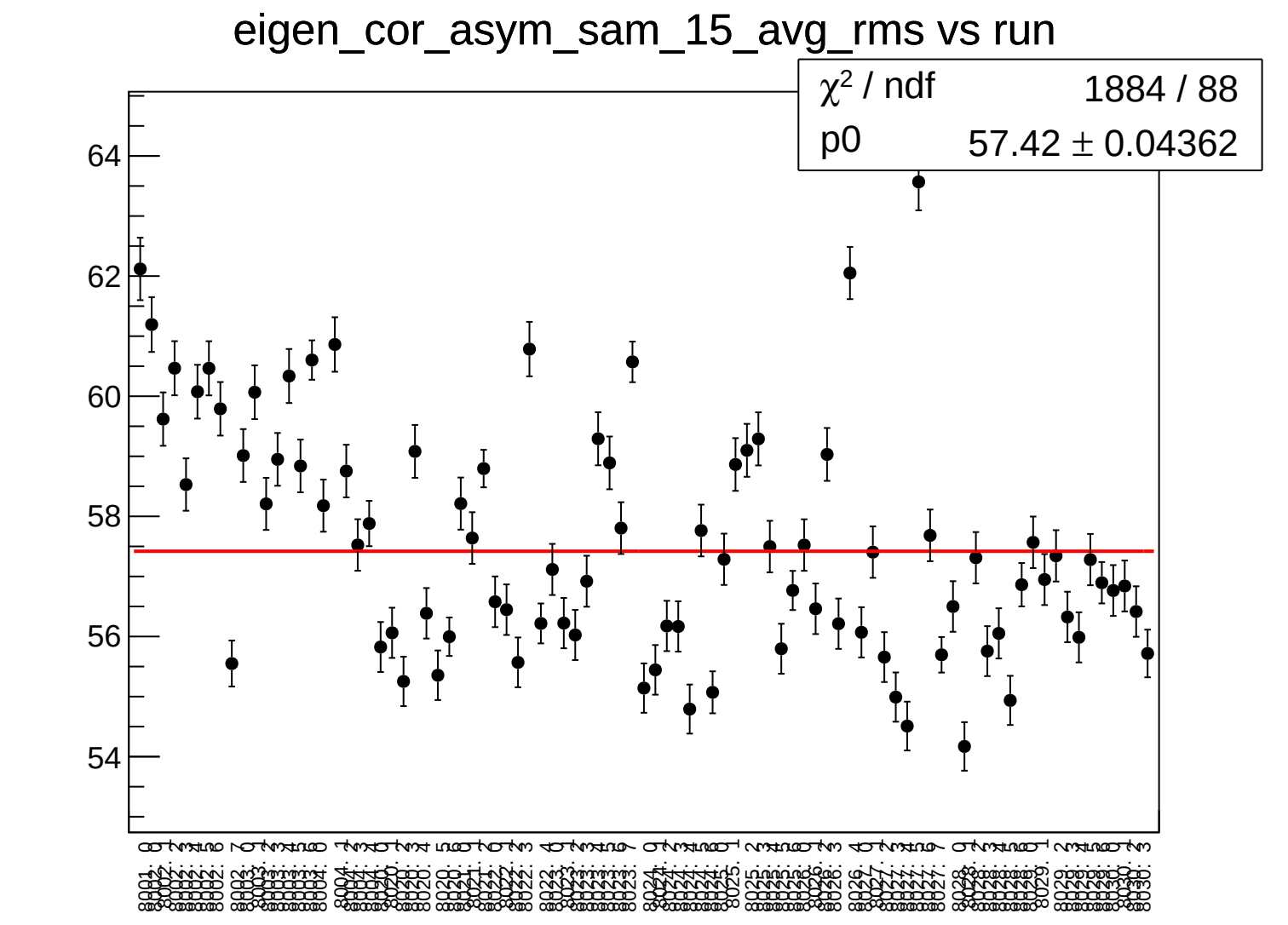

asym_sam_15_avg_cor_correction_mean vs run
χ² / ndf 103.6 / 88
p0 108.2 ± 329
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 147.2
Std Dev 0
2
1
0
−1
−2
−3

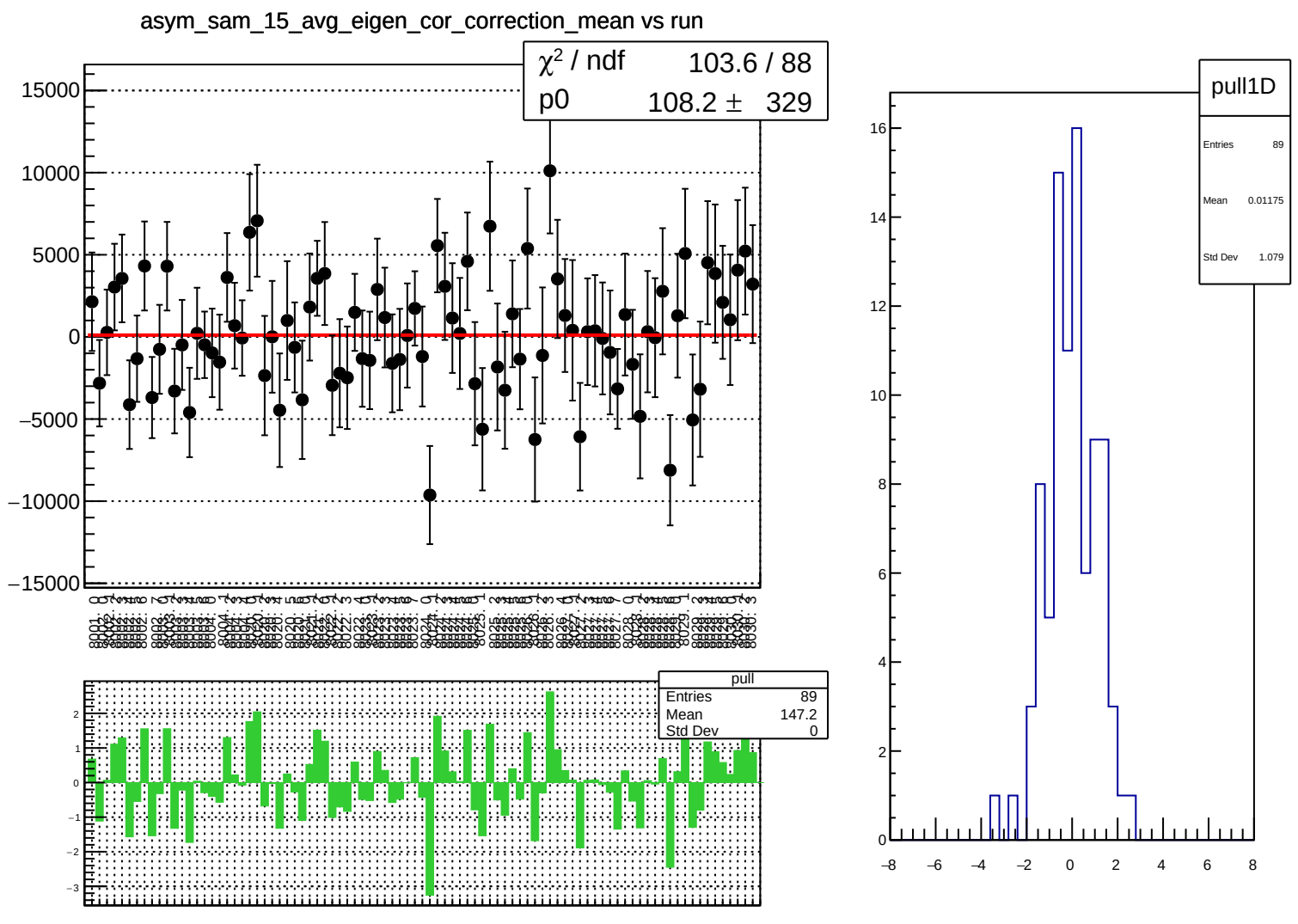

pull1D
Entries 89
Mean 0.01175
Std Dev 1.079
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

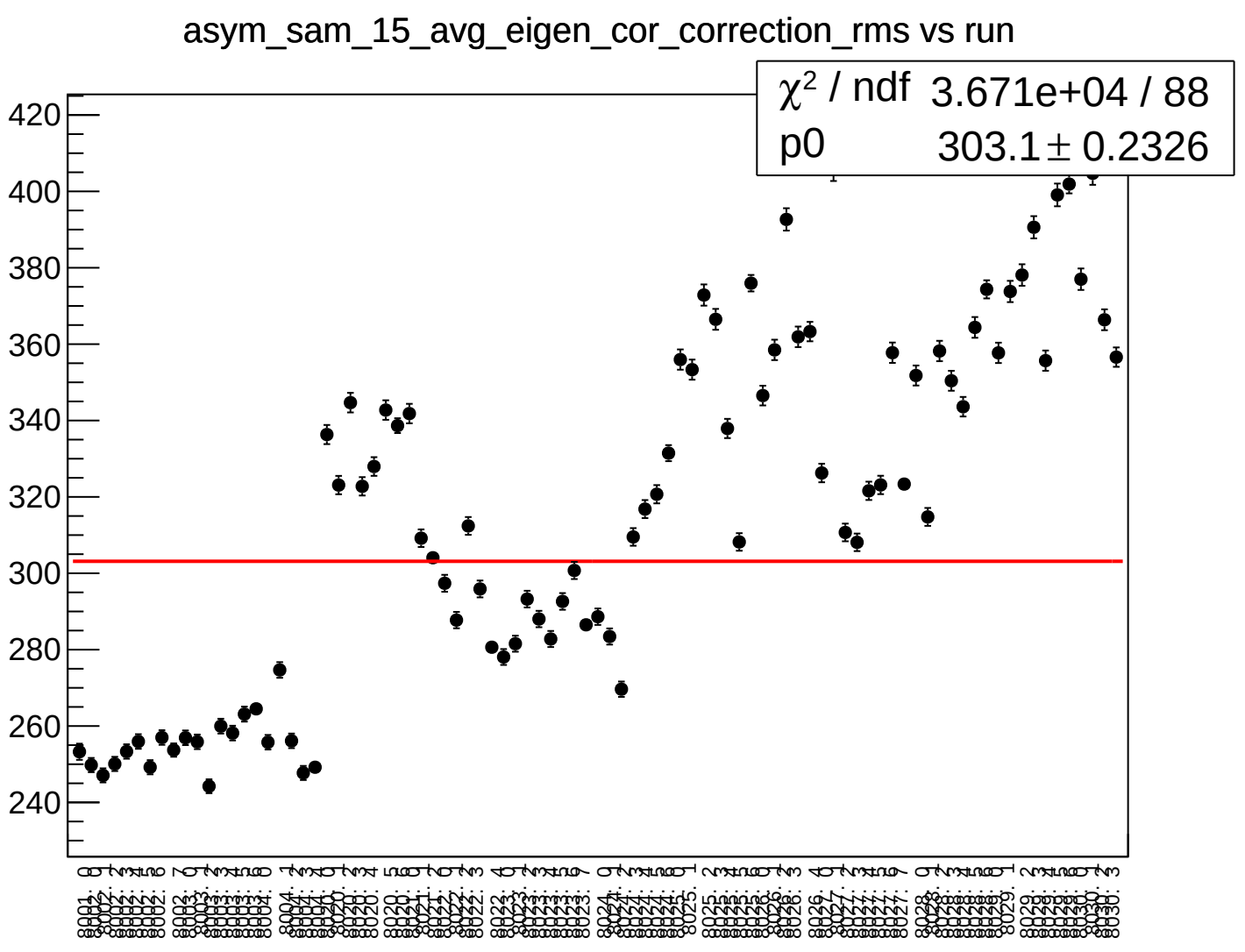

asym_sam_15_avg_cor_correction_rms vs run
χ² / ndf 3.671e+04 / 88
p0 303.1 ± 0.2326
420
400
380
360
340
320
300
280
260
240

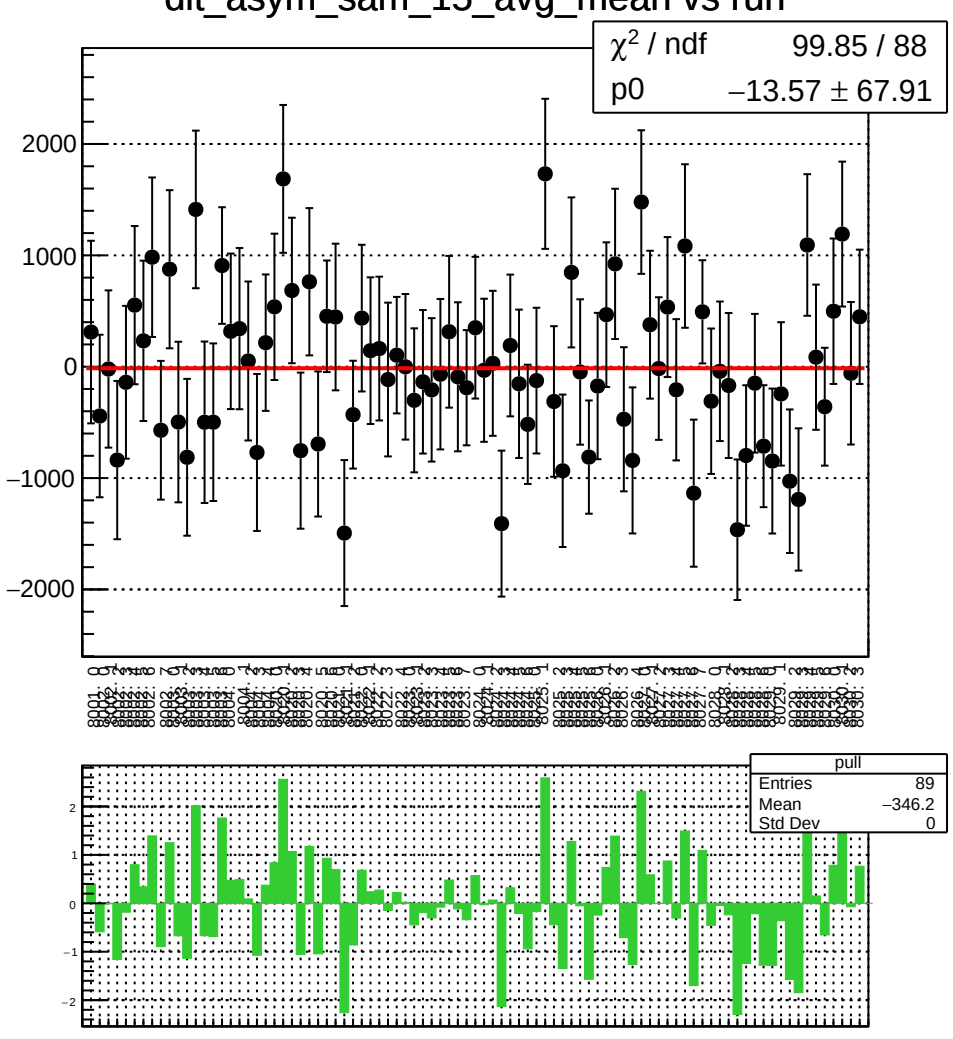

eigen_cor_asym_sam_15_avg_mean vs run
χ² / ndf 92.92 / 88
p0 −21.92 ± 61.69
2000
1000
0
−1000
−2000
pull
Entries 89
Mean −2174
Std Dev 0
2
1
0
−1
−2

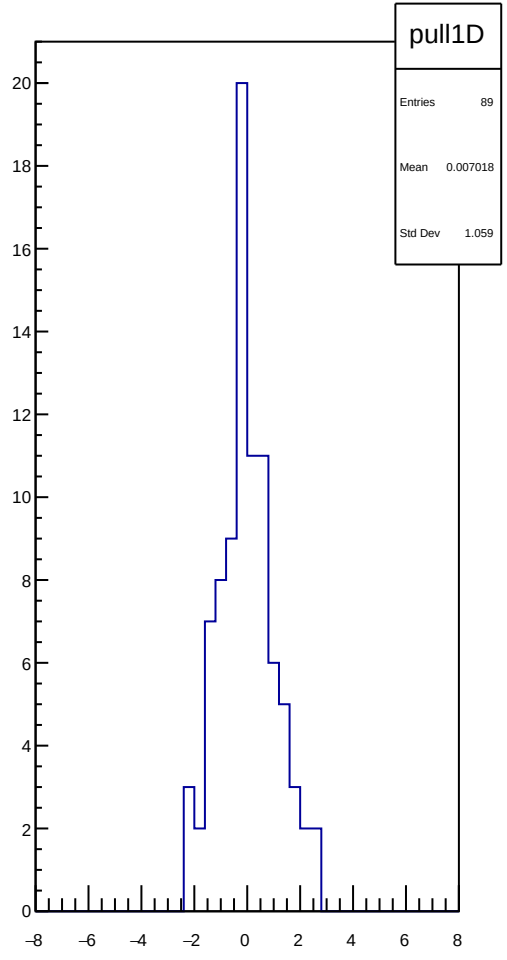

pull1D
Entries 89
Mean 0.001964
Std Dev 1.022
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

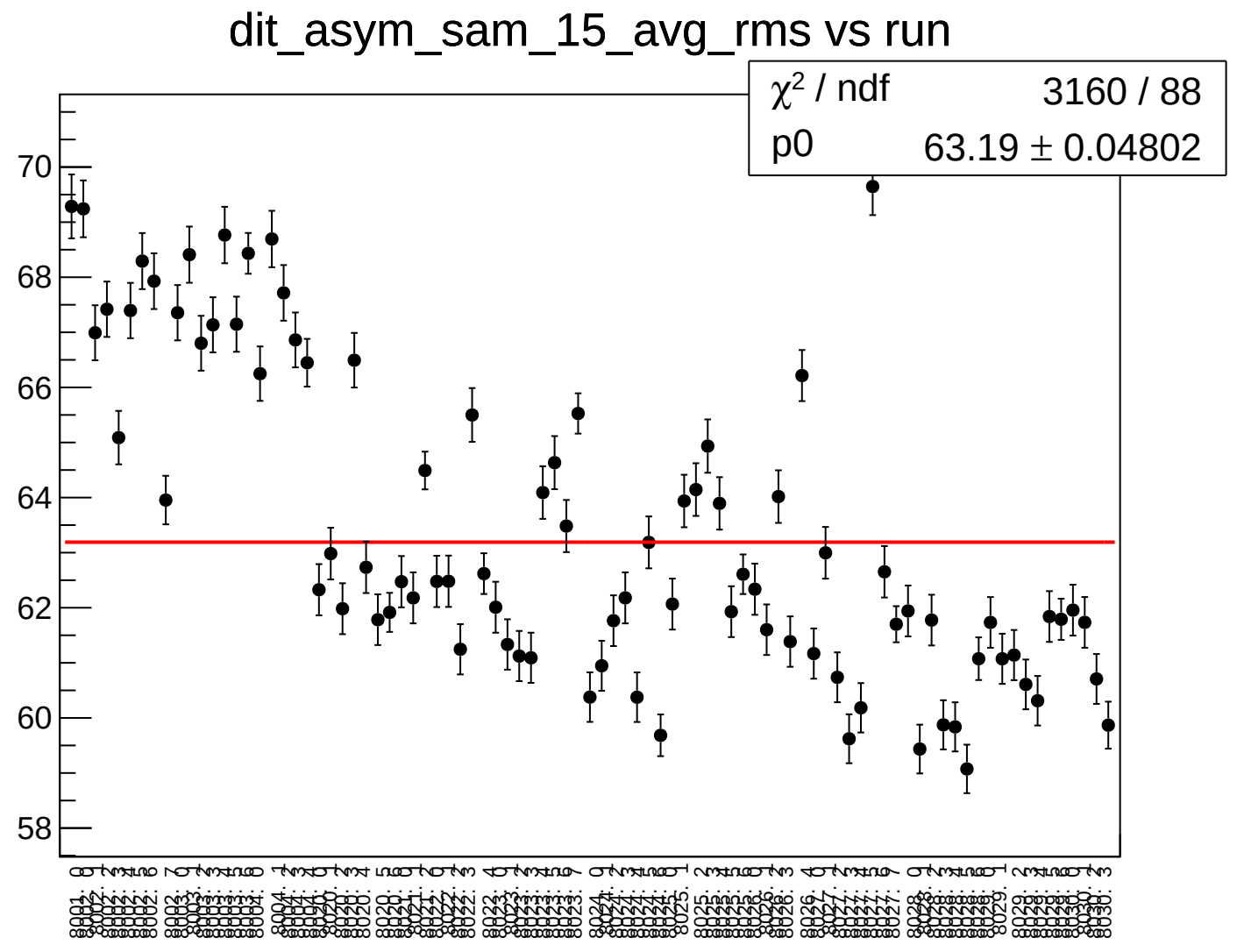

eigen_cor_asym_sam_15_avg_rms vs run
χ² / ndf 1884 / 88
p0 57.42 ± 0.04362
64
62
60
58
56
54

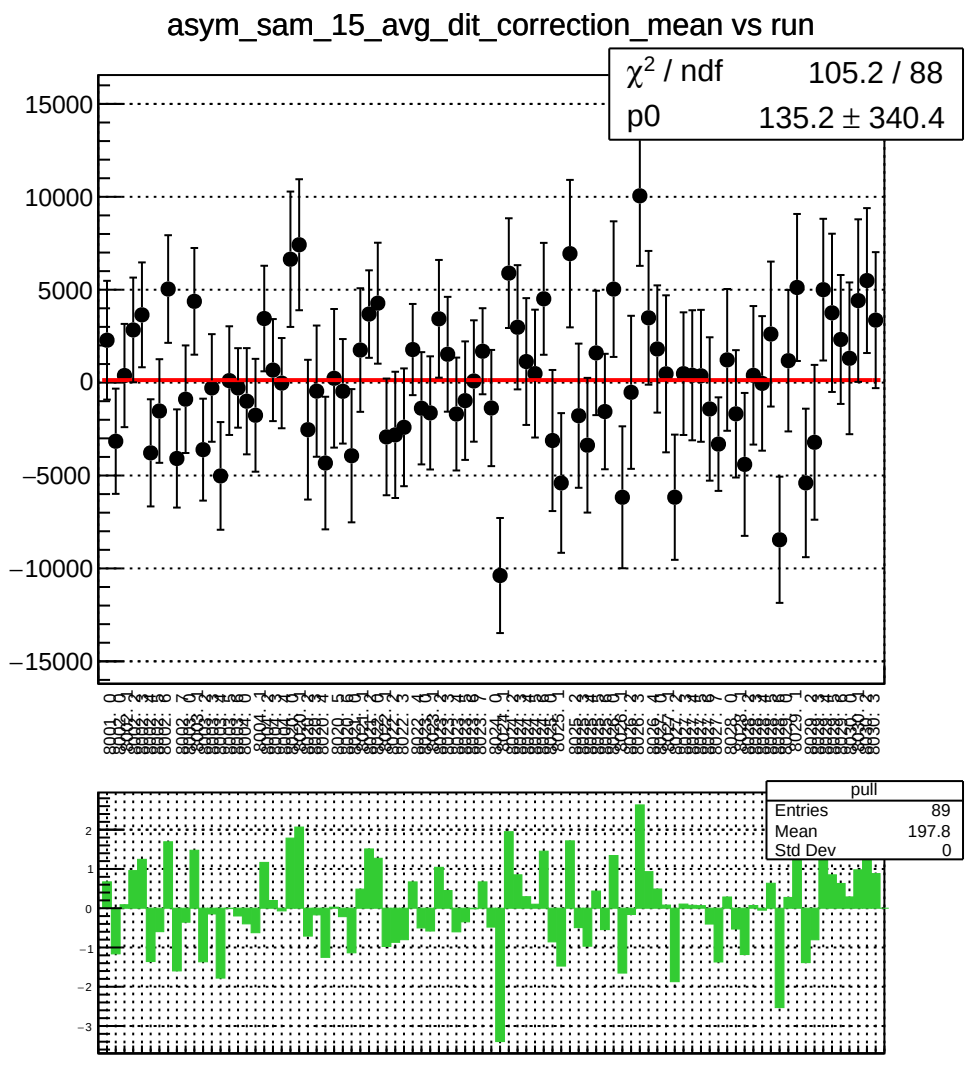

asym_sam_15_avg_eigen_cor_correction_mean vs run
χ² / ndf 103.6 / 88
p0 108.2 ± 329
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 147.2
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean 0.01175
Std Dev 1.079
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

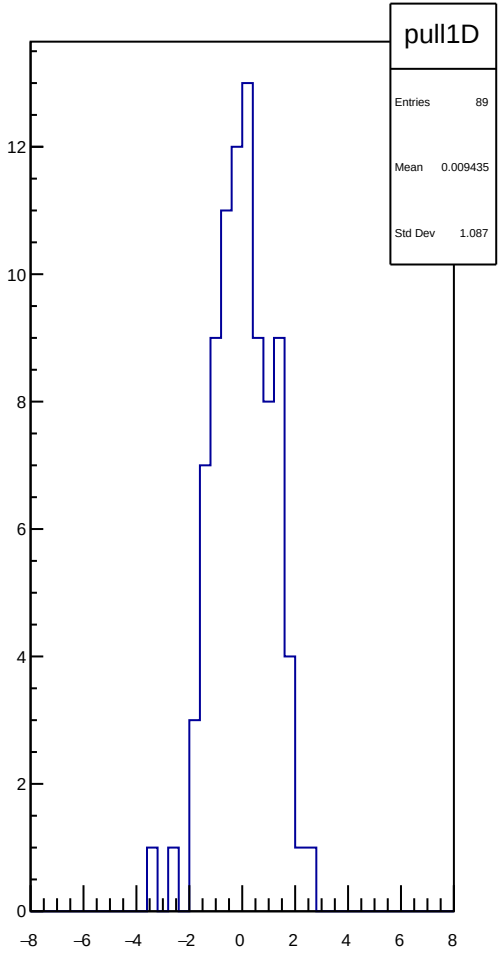

asym_sam_15_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.671e+04 / 88
p0 303.1 ± 0.2326
420
400
380
360
340
320
300
280
260
240

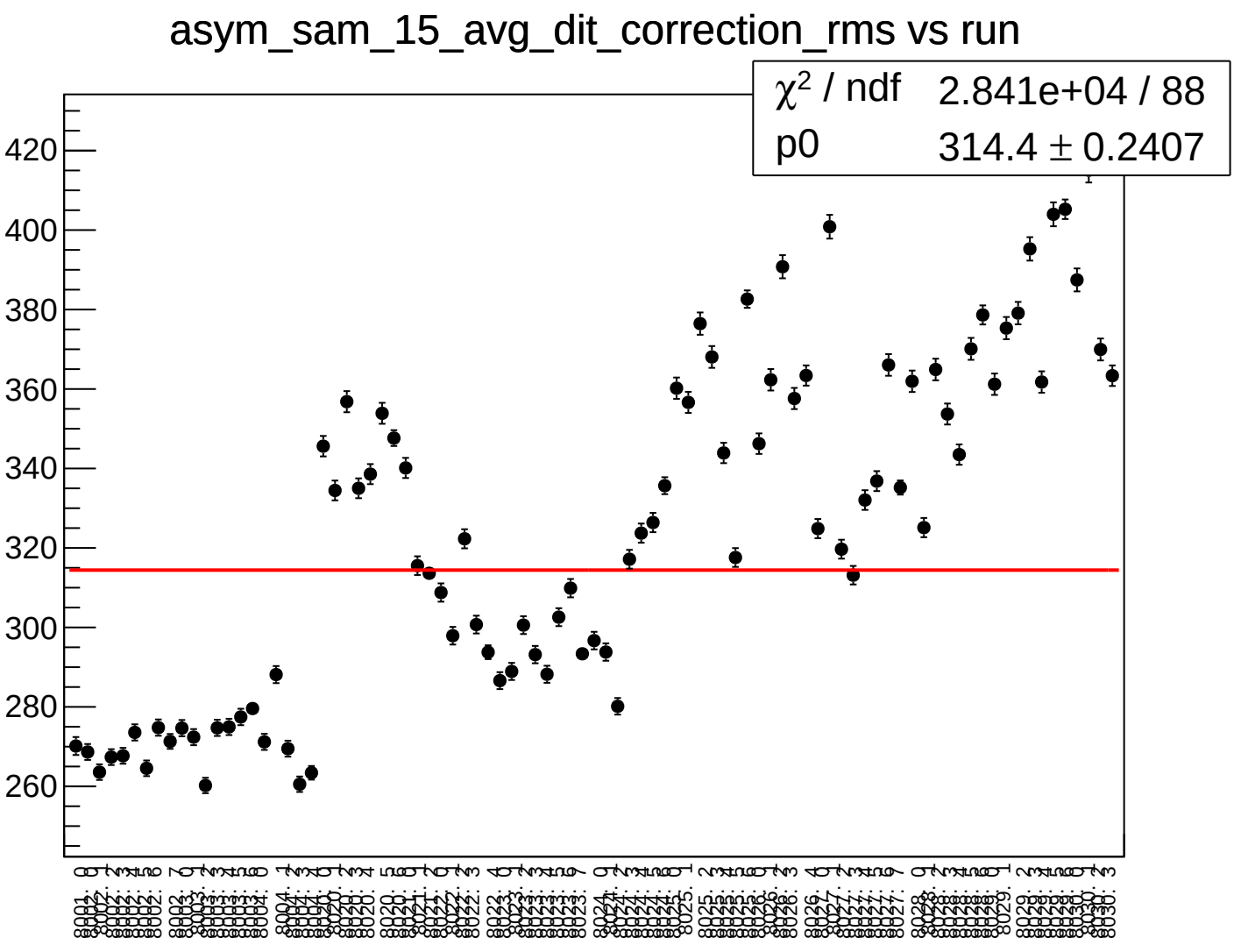

dit_asym_sam_15_avg_mean vs run
χ² / ndf 99.85 / 88
p0 −13.57 ± 67.91
2000
1000
0
−1000
−2000
pull
Entries 89
Mean −346.2
Std Dev 0
2
1
0
−1
−2

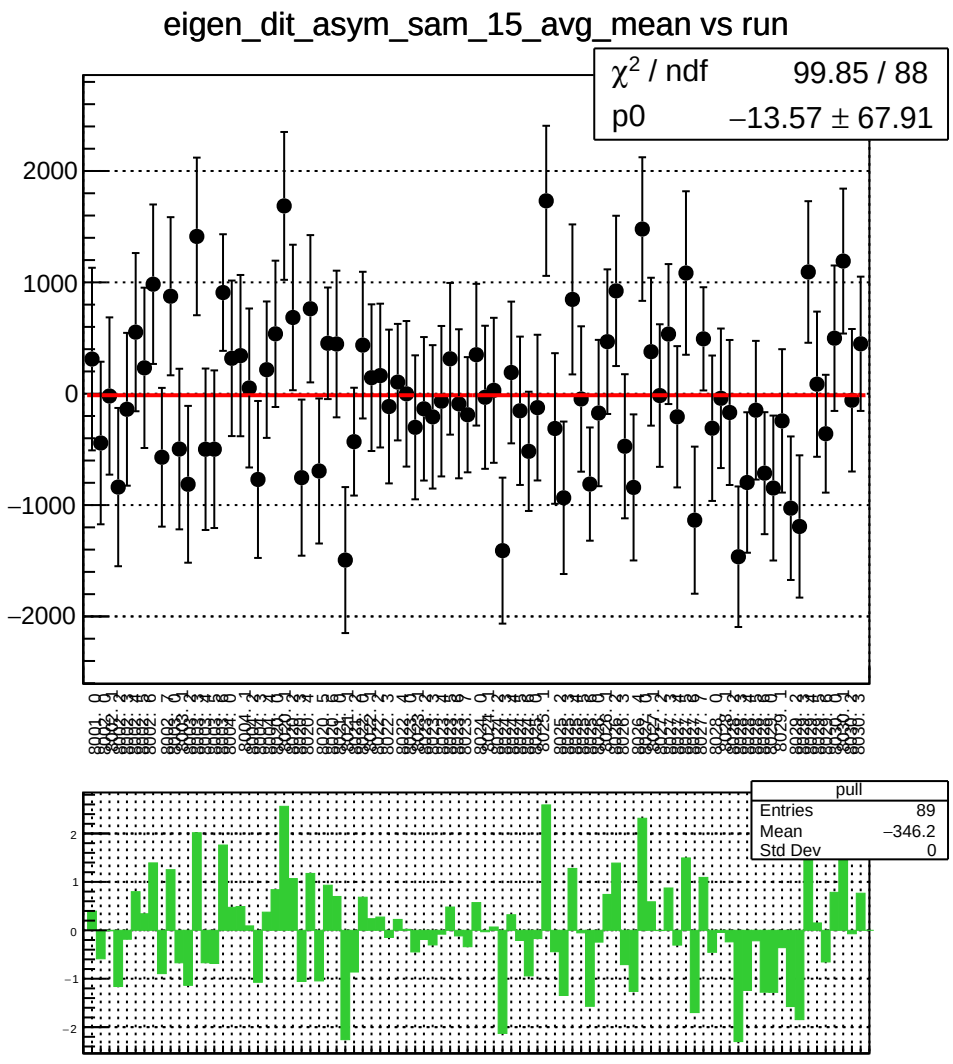

pull1D
Entries 89
Mean 0.007018
Std Dev 1.059
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

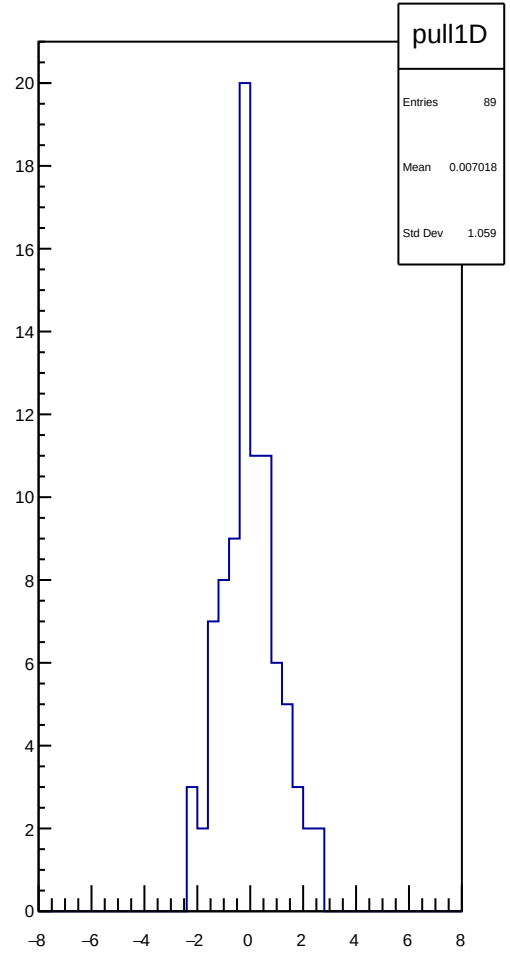

dit_asym_sam_15_avg_rms vs run
χ^2 / ndf 3160 / 88
p0 63.19 ± 0.04802
70
68
66
64
62
60
58

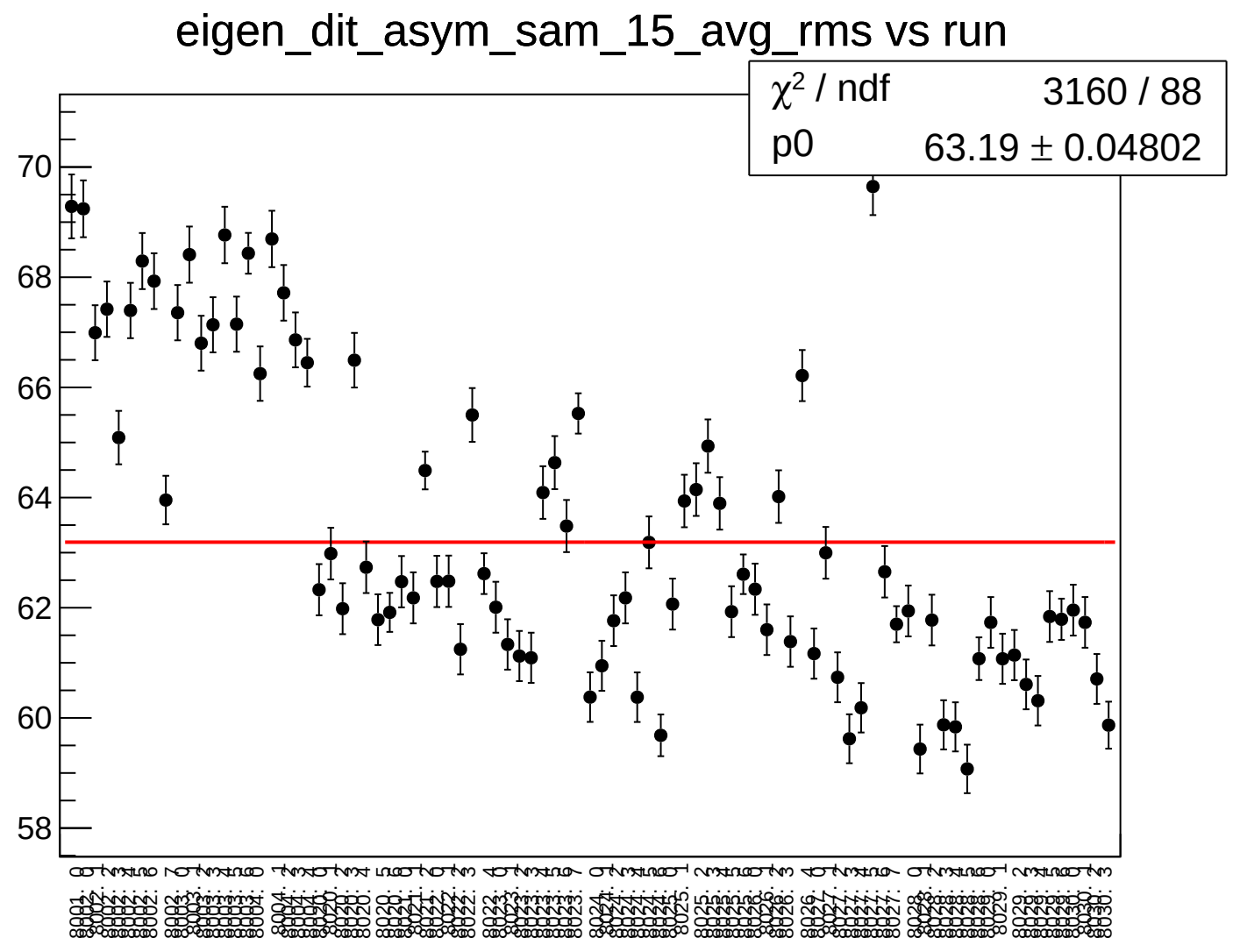

asym_sam_15_avg_dit_correction_mean vs run
χ² / ndf 105.2 / 88
p0 135.2 ± 340.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 197.8
Std Dev 0
2
1
0
−1
−2
−3

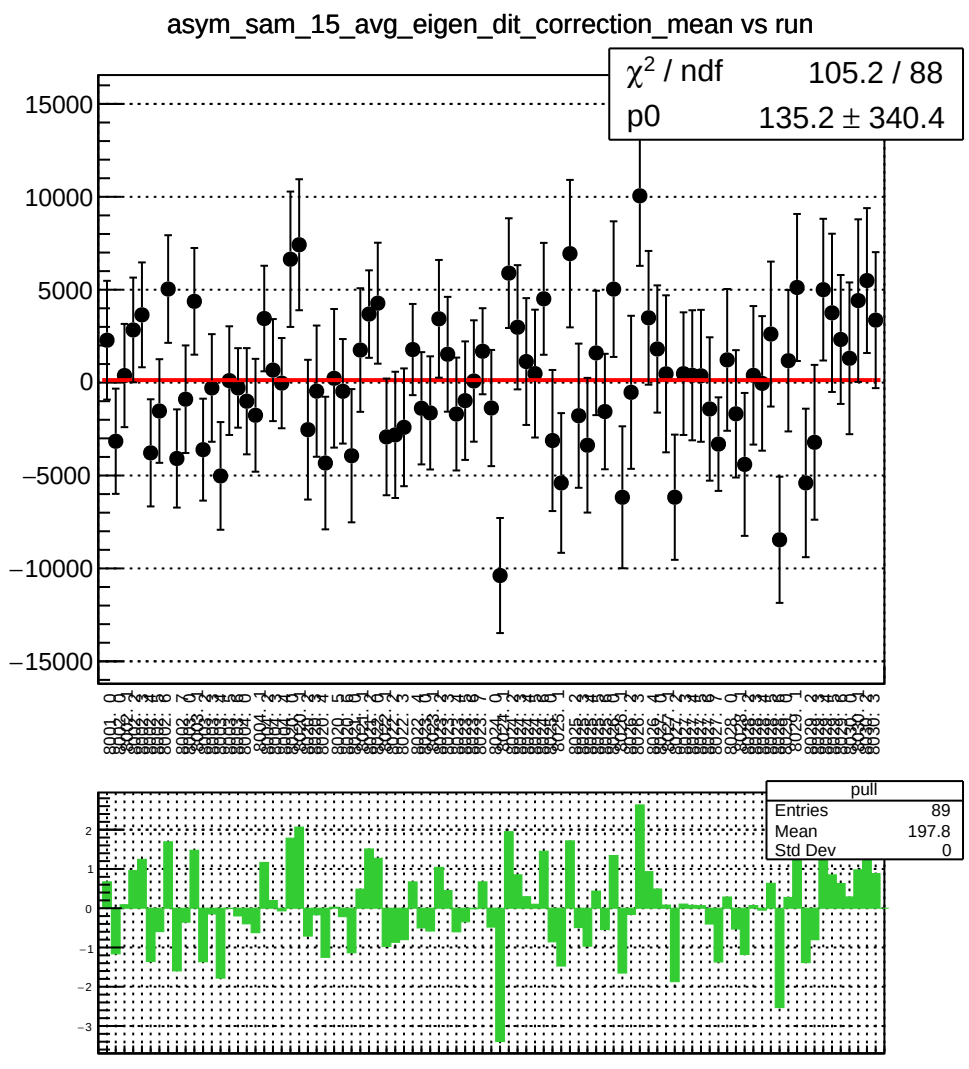

pull1D
Entries 89
Mean 0.009435
Std Dev 1.087
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

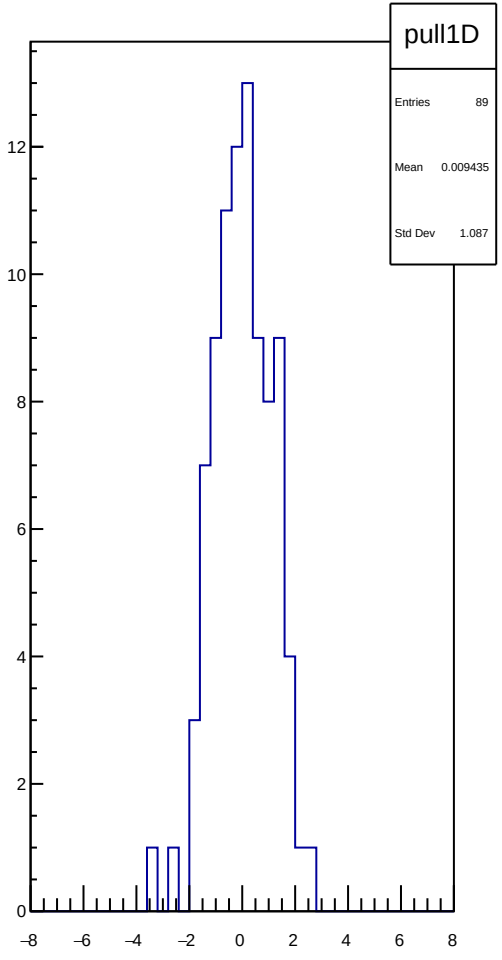

asym_sam_15_avg_dit_correction_rms vs run
χ² / ndf 2.841e+04 / 88
p0 314.4 ± 0.2407
420
400
380
360
340
320
300
280
260

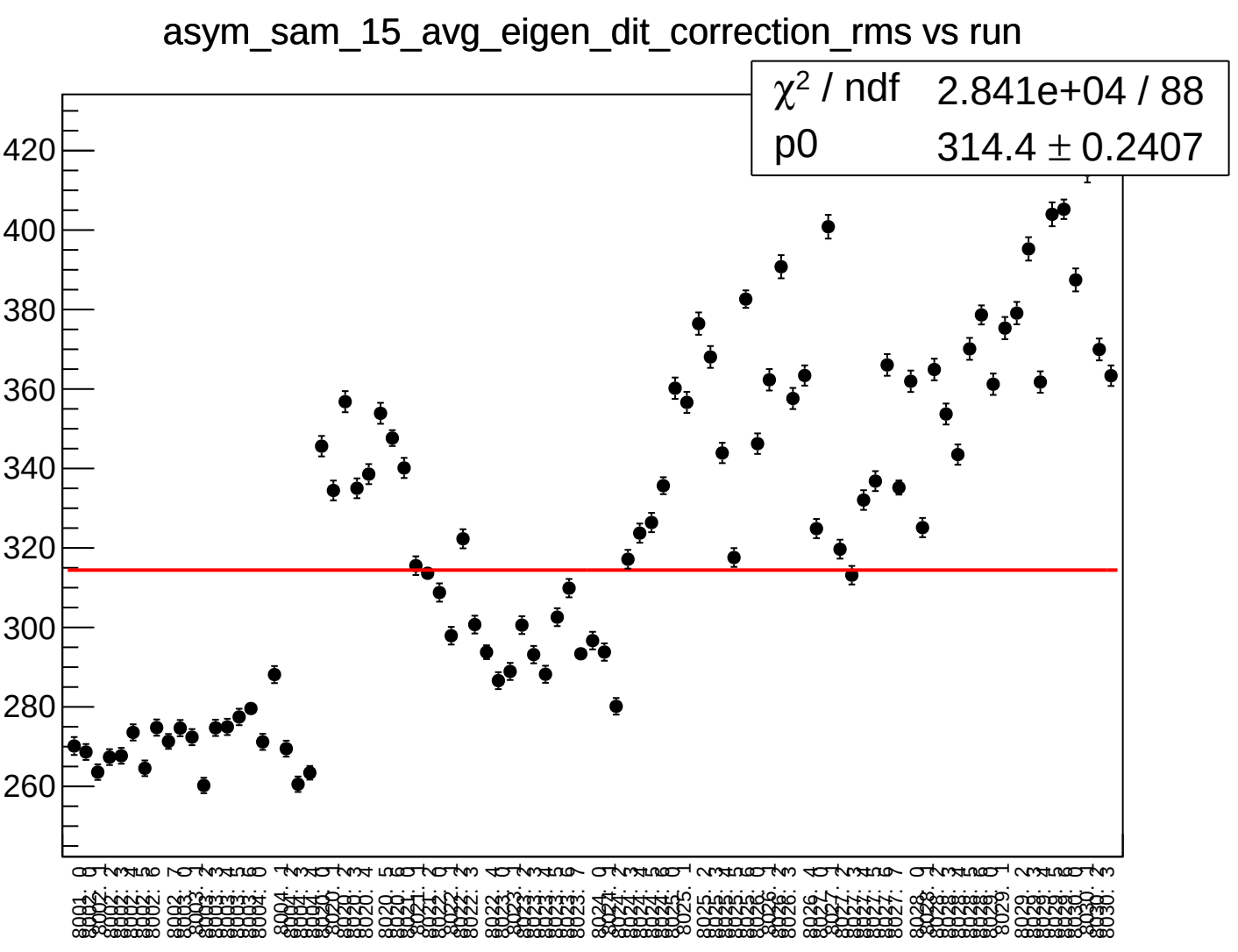

eigen_dit_asym_sam_15_avg_mean vs run
χ² / ndf 99.85 / 88
p0 −13.57 ± 67.91
2000
1000
0
−1000
−2000
pull
Entries 89
Mean −346.2
Std Dev 0
2
1
0
−1
−2

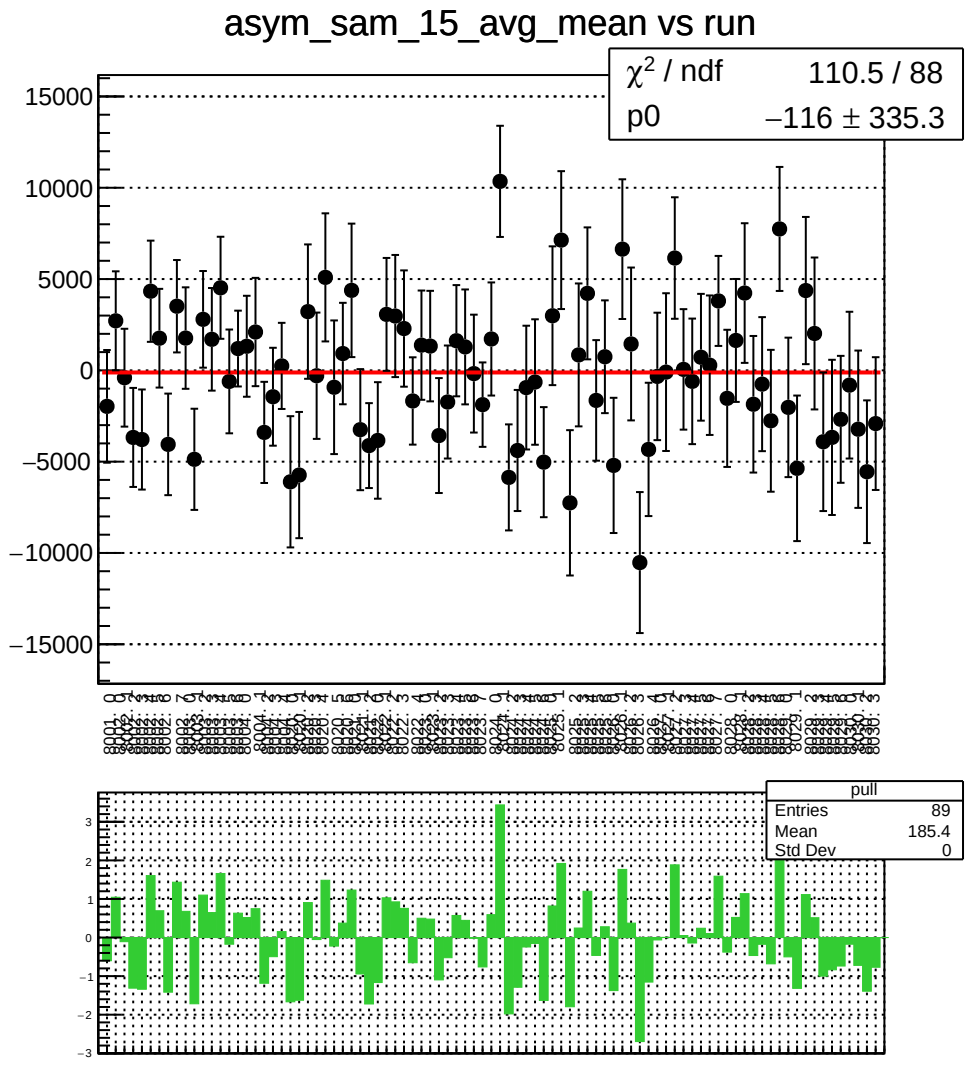

pull1D
Entries 89
Mean 0.007018
Std Dev 1.059
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

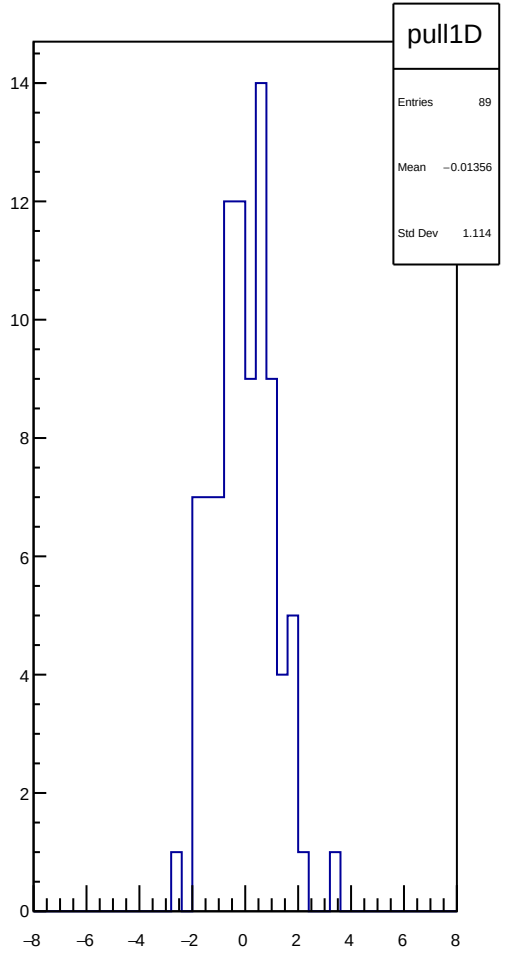

eigen_dit_asym_sam_15_avg_rms vs run
χ^2 / ndf 3160 / 88
p0 63.19 ± 0.04802
70
68
66
64
62
60
58

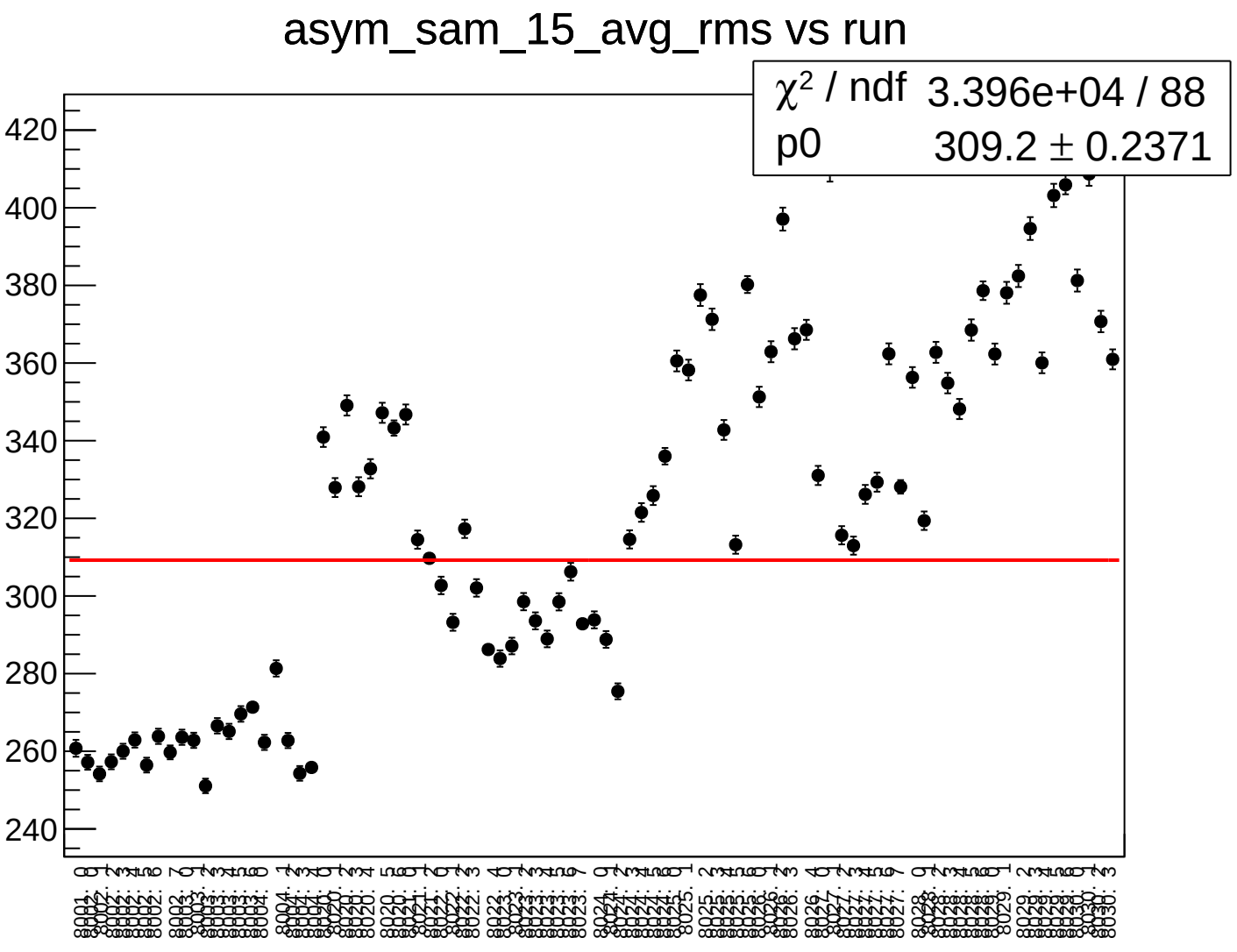

asym_sam_15_avg_eigen_dit_correction_mean vs run
χ² / ndf 105.2 / 88
p0 135.2 ± 340.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 197.8
Std Dev 0
2
1
0
−1
−2
−3

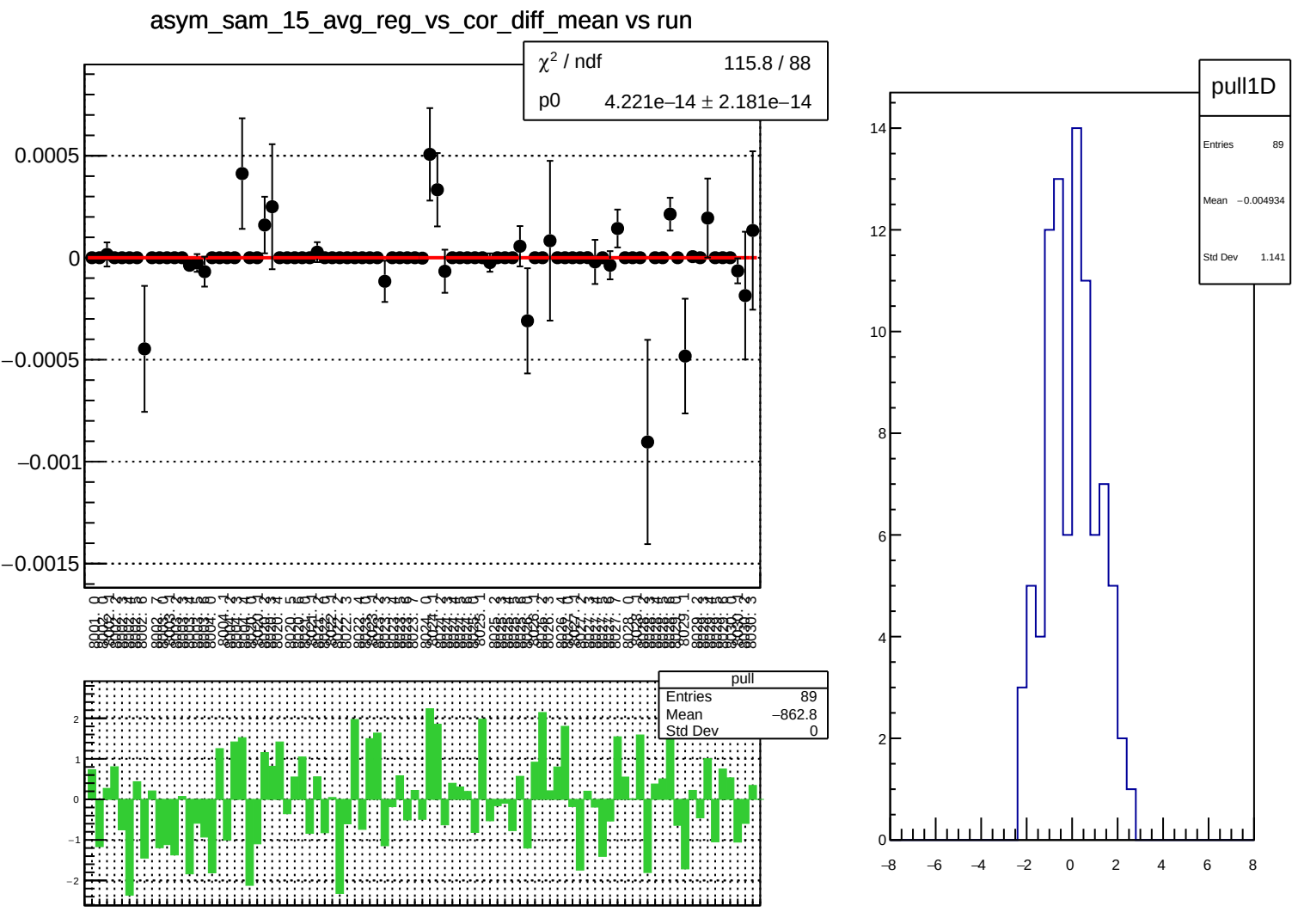

pull1D
Entries 89
Mean 0.009435
Std Dev 1.087
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

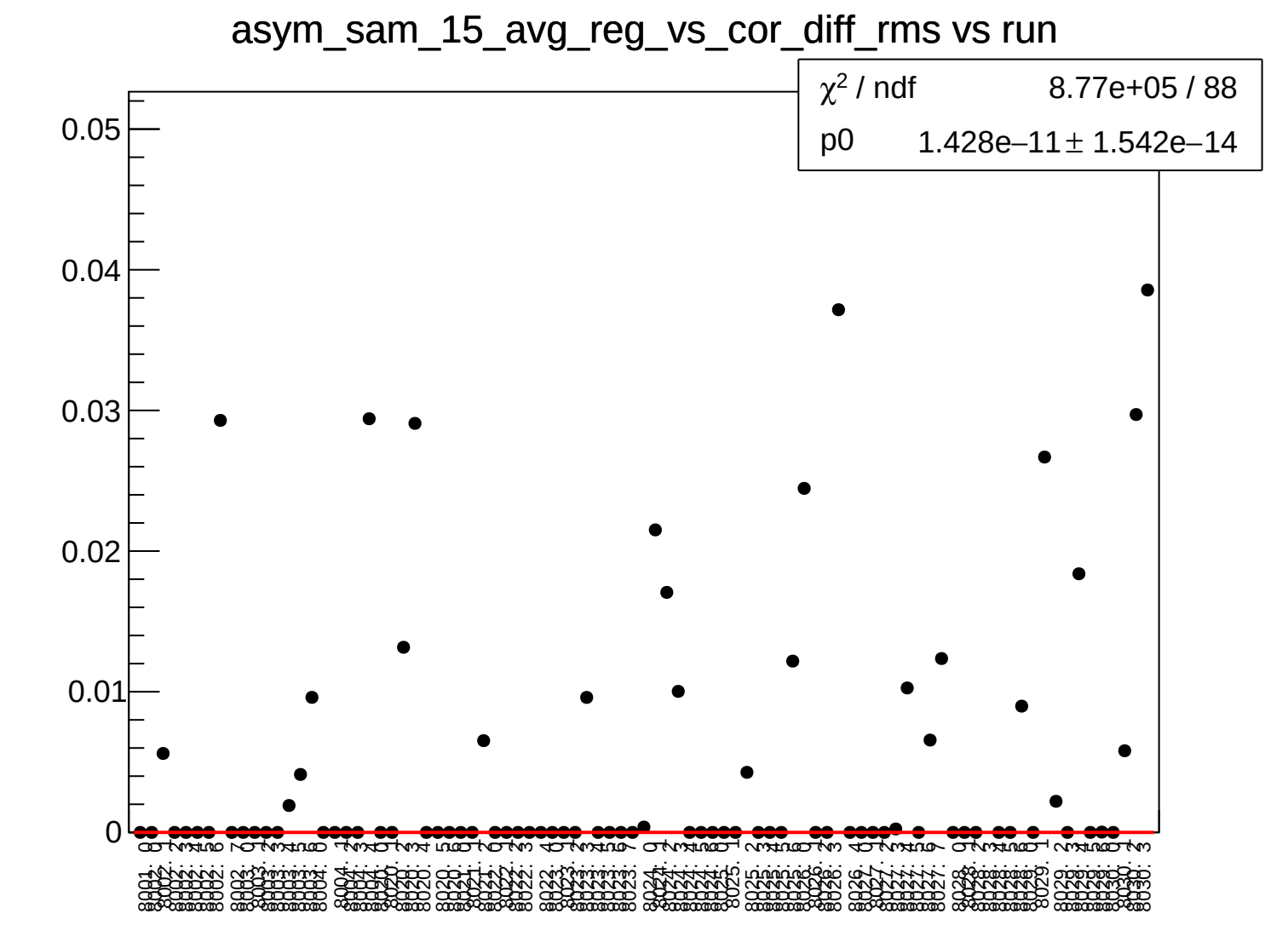

asym_sam_15_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.841e+04 / 88
p0 314.4 ± 0.2407
420
400
380
360
340
320
300
280
260

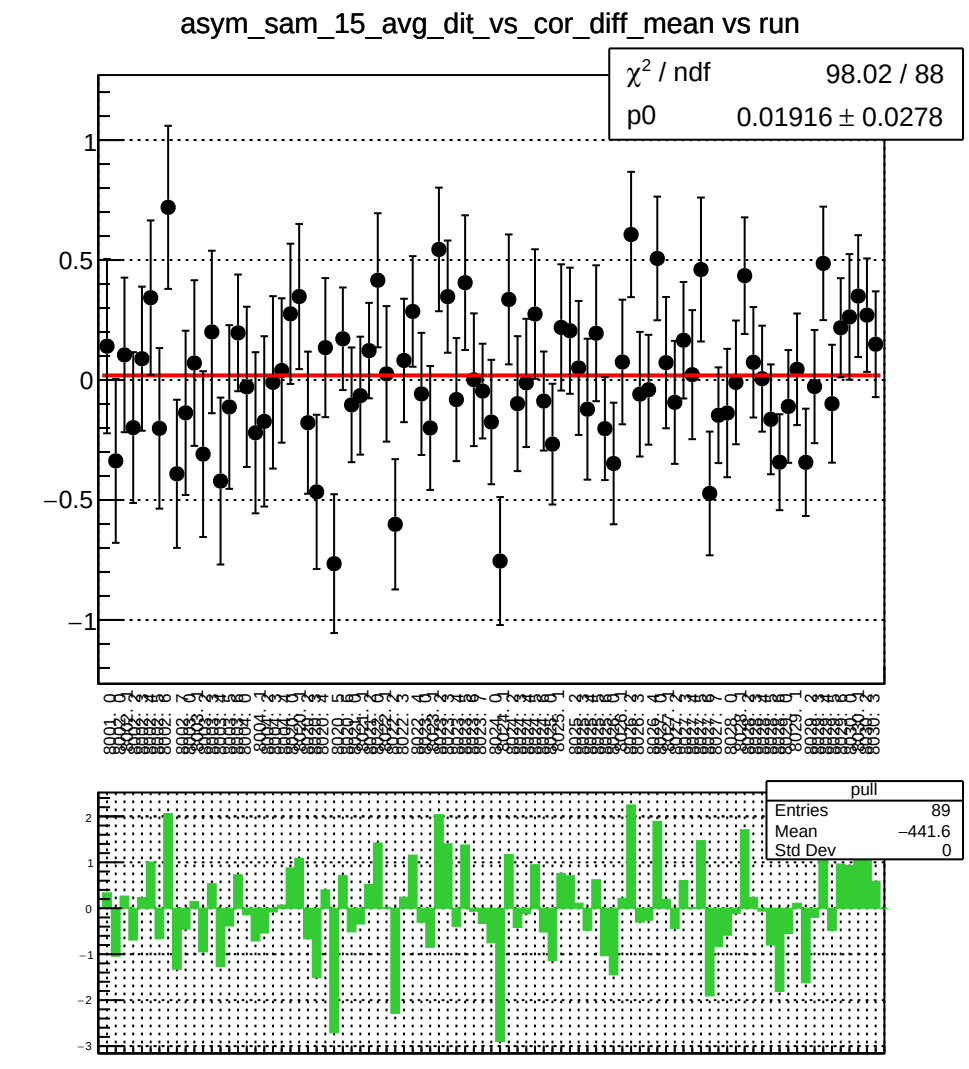

asym_sam_15_avg_mean vs run
χ² / ndf 110.5 / 88
p0 −116 ± 335.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 185.4
Std Dev 0
3
2
1
0
−1
−2
−3

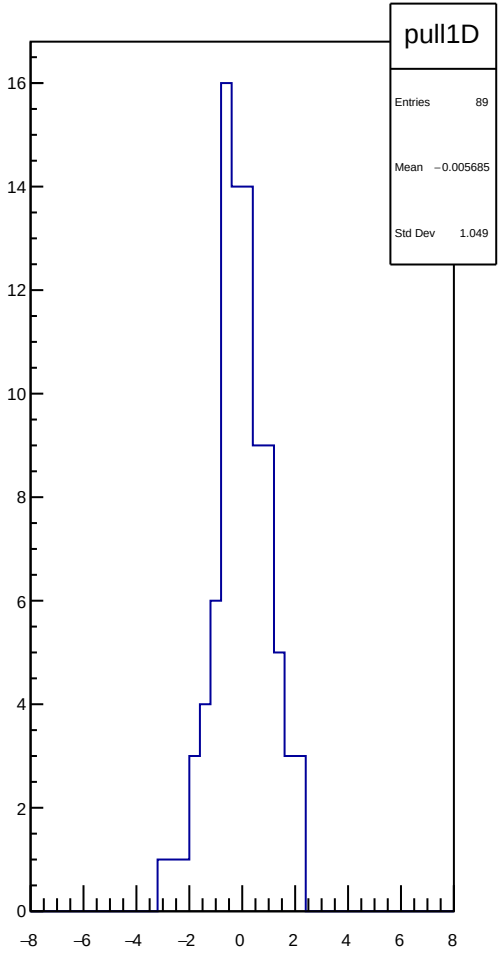

pull1D
Entries 89
Mean −0.01356
Std Dev 1.114
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

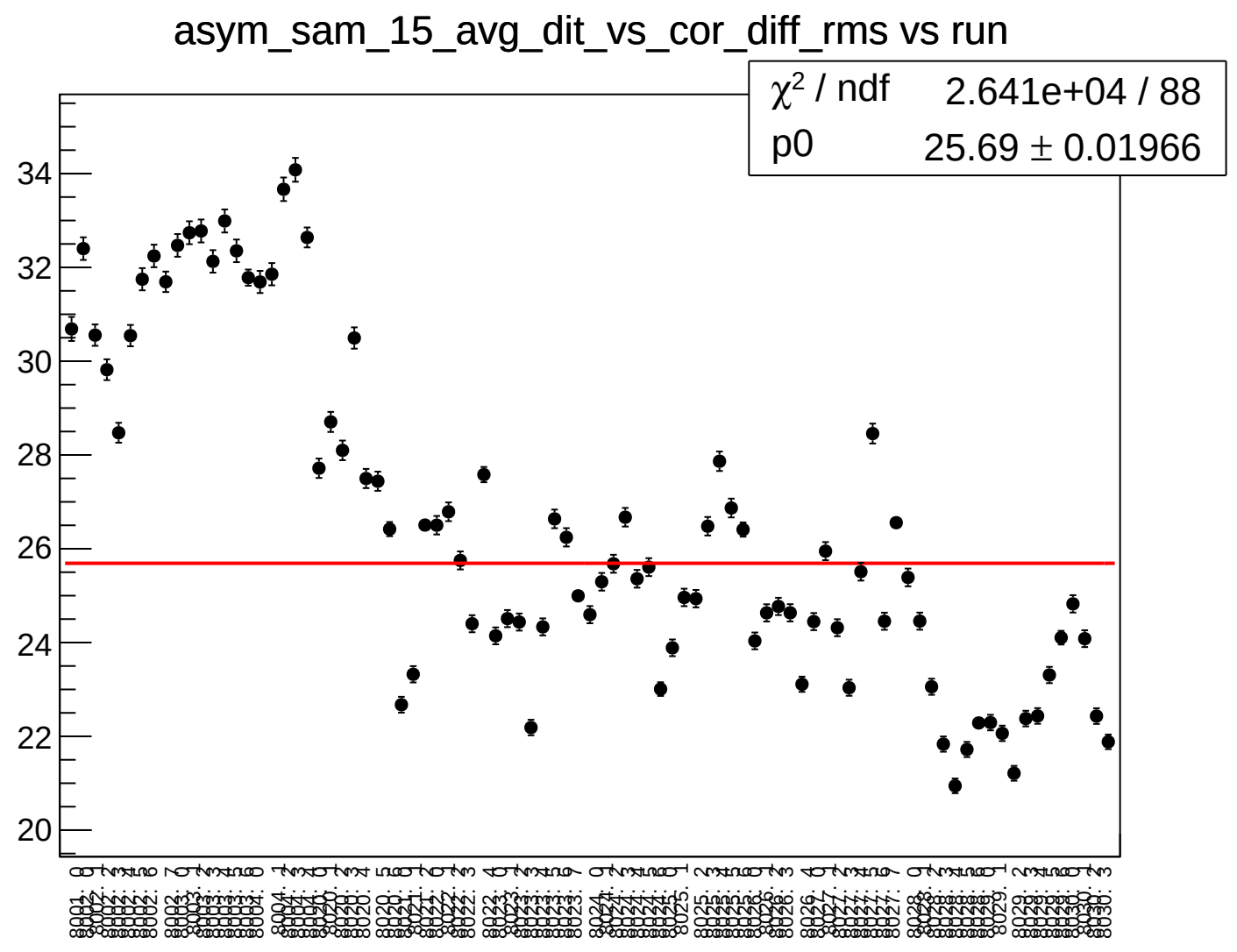

asym_sam_15_avg_rms vs run
χ² / ndf 3.396e+04 / 88
p0 309.2 ± 0.2371
420
400
380
360
340
320
300
280
260
240

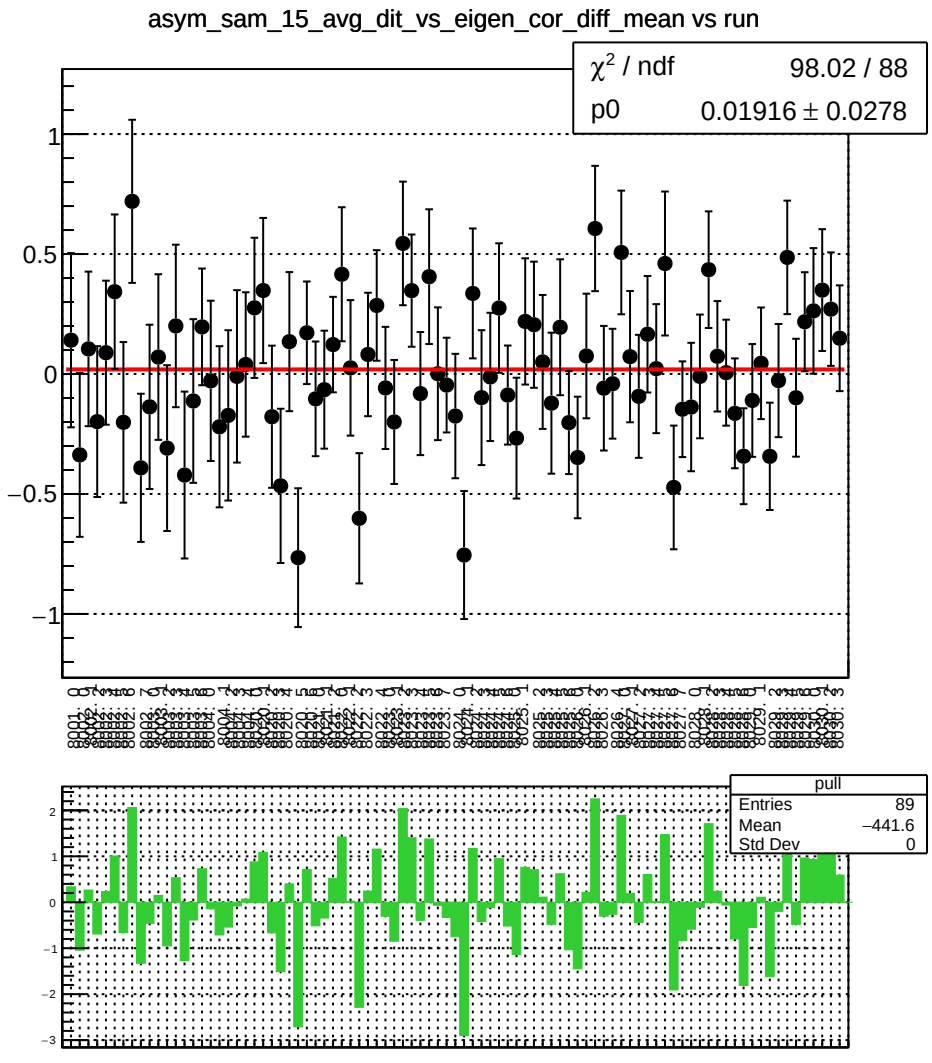

asym_sam_15_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 115.8 / 88
p0 4.221e−14 ± 2.181e−14
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 89
Mean −862.8
Std Dev 0
pull1D
Entries 89
Mean −0.004934
Std Dev 1.141

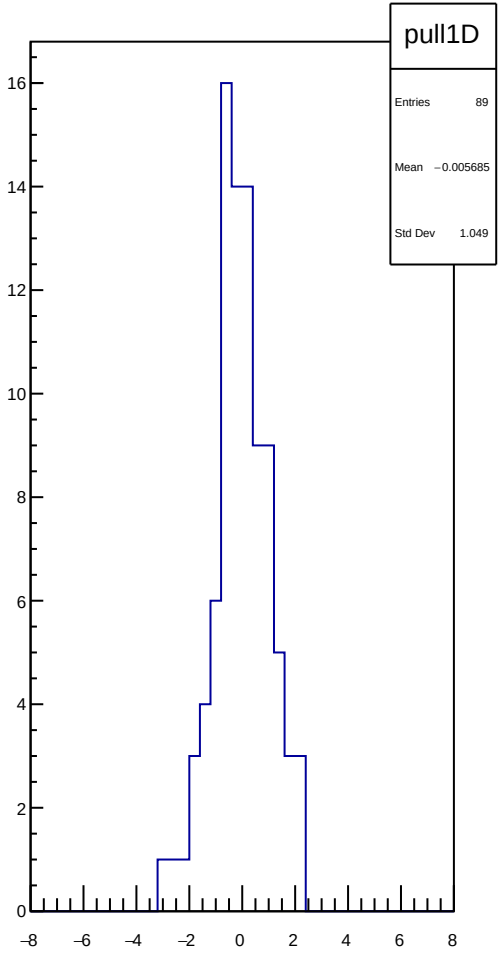

asym_sam_15_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.77e+05 / 88
p0 1.428e−11 ± 1.542e−14
0.05
0.04
0.03
0.02
0.01
0

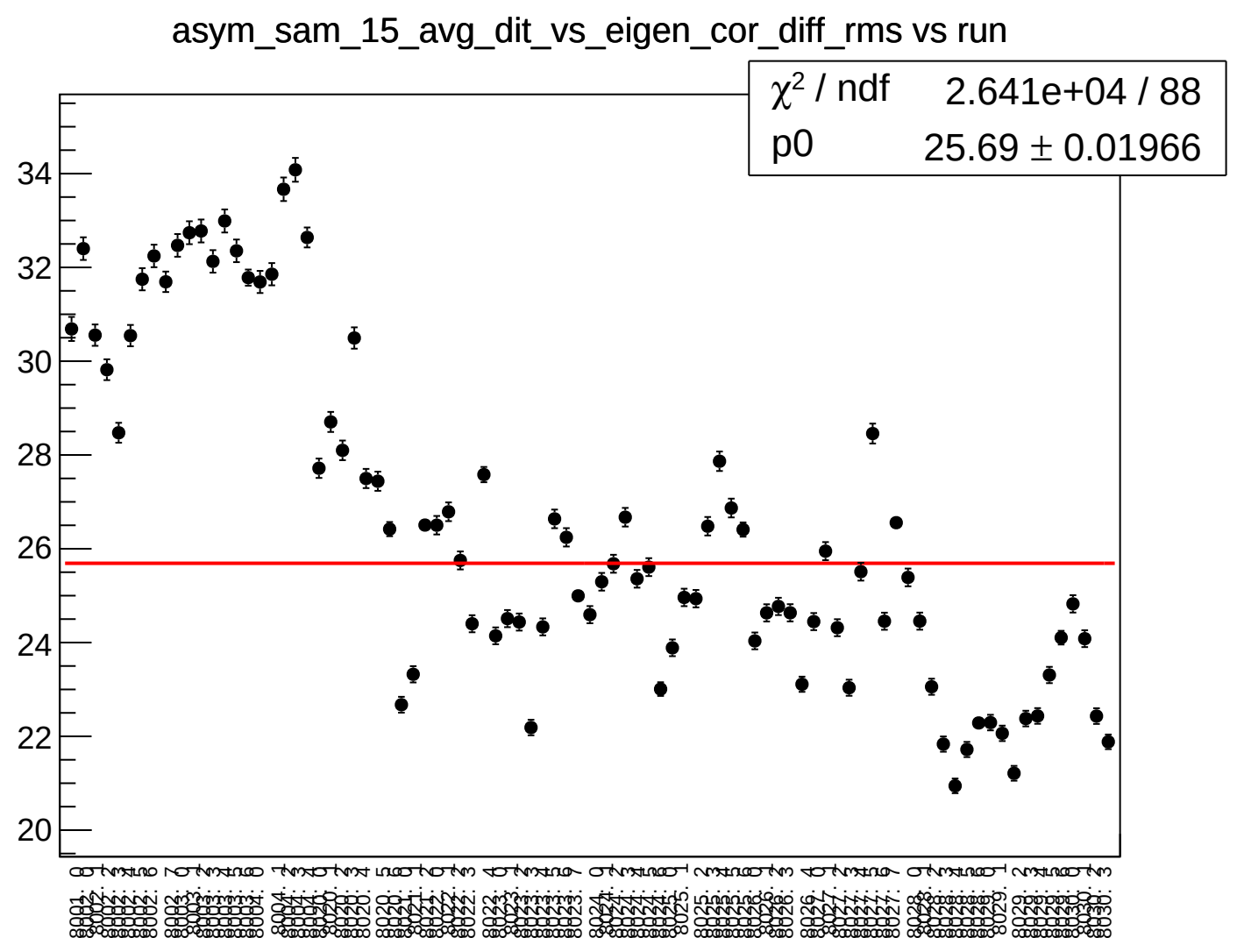

asym_sam_15_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 98.02 / 88
p0 0.01916 ± 0.0278
pull
Entries 89
Mean −441.6
Std Dev 0

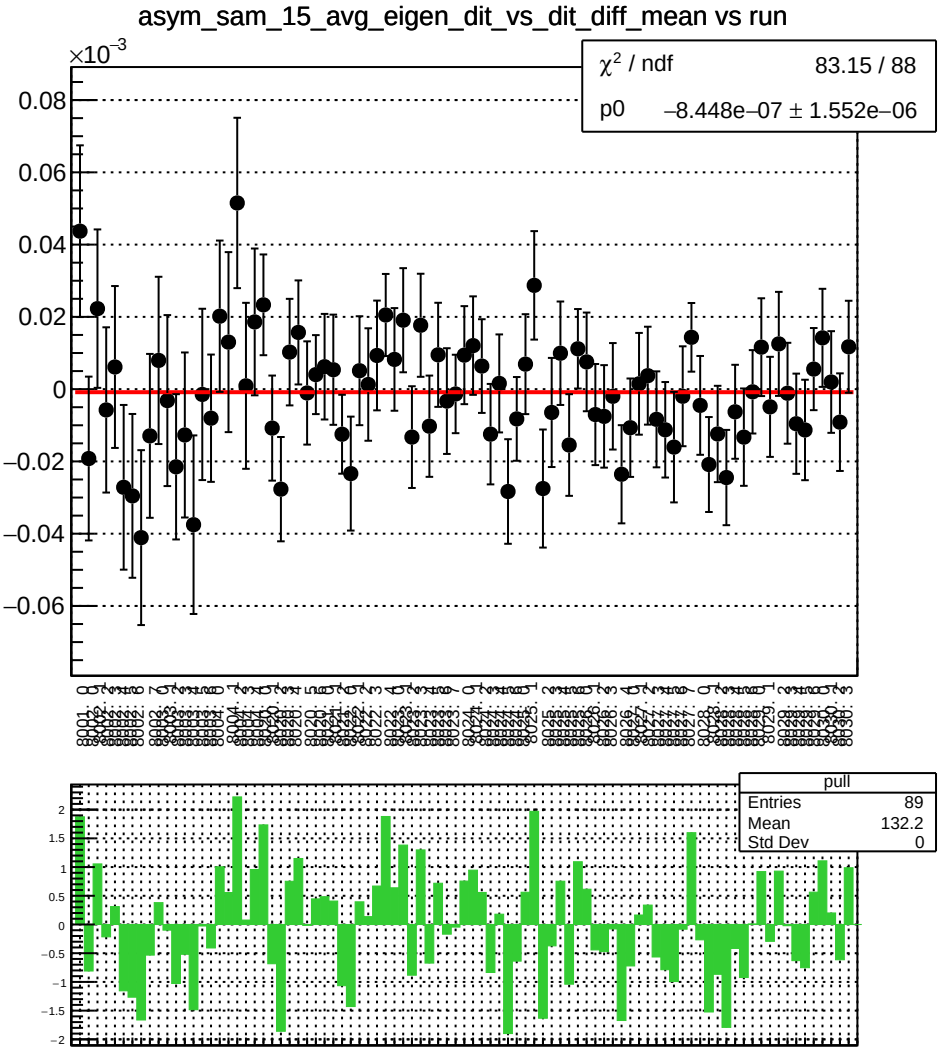

pull1D
Entries 89
Mean −0.005685
Std Dev 1.049

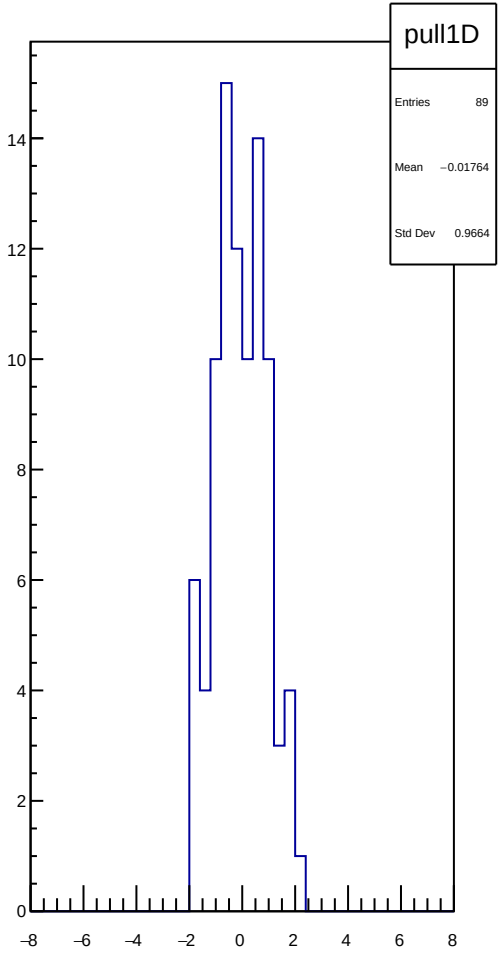

asym_sam_15_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.641e+04 / 88
p0 25.69 ± 0.01966
34
32
30
28
26
24
22
20

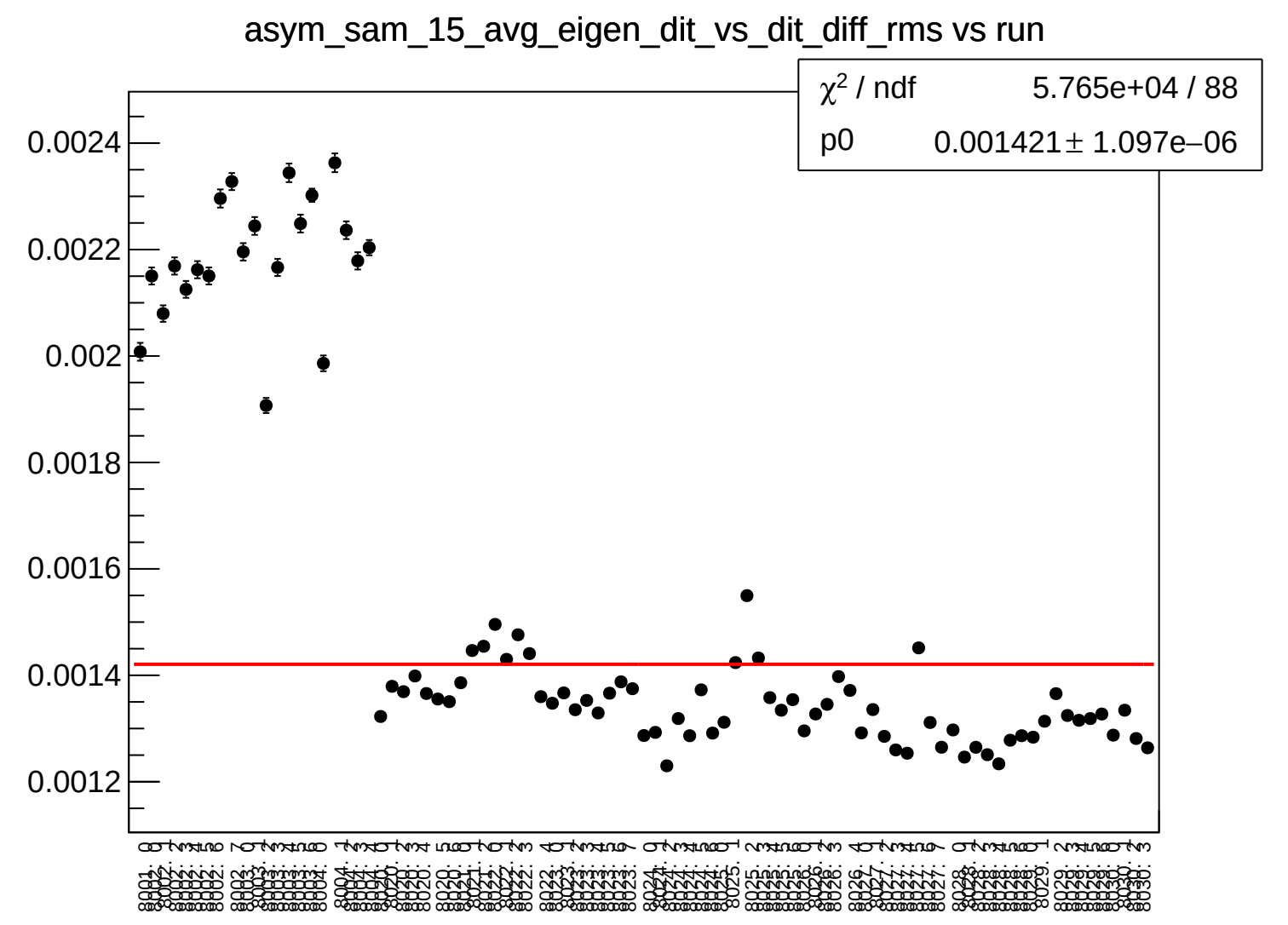

asym_sam_15_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.02 / 88
p0 0.01916 ± 0.0278
pull
Entries 89
Mean −441.6
Std Dev 0

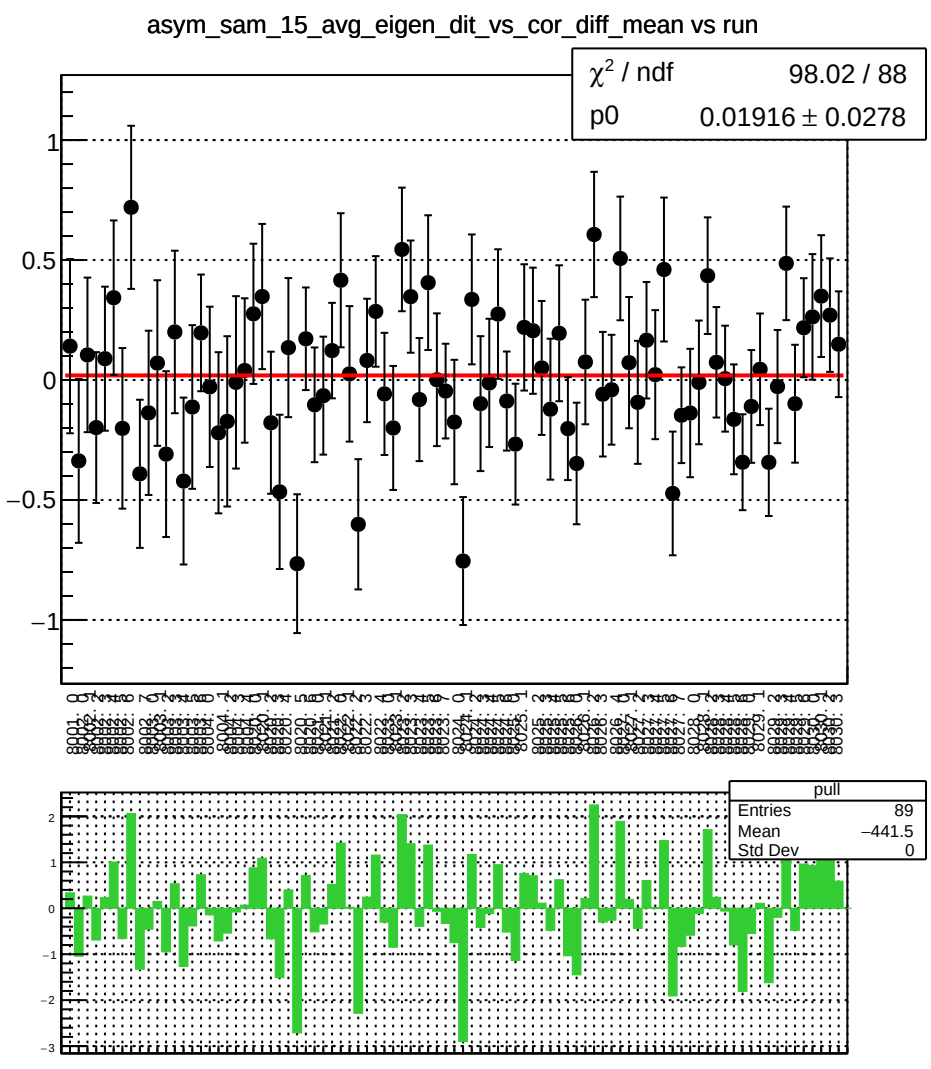

pull1D
Entries 89
Mean −0.005685
Std Dev 1.049

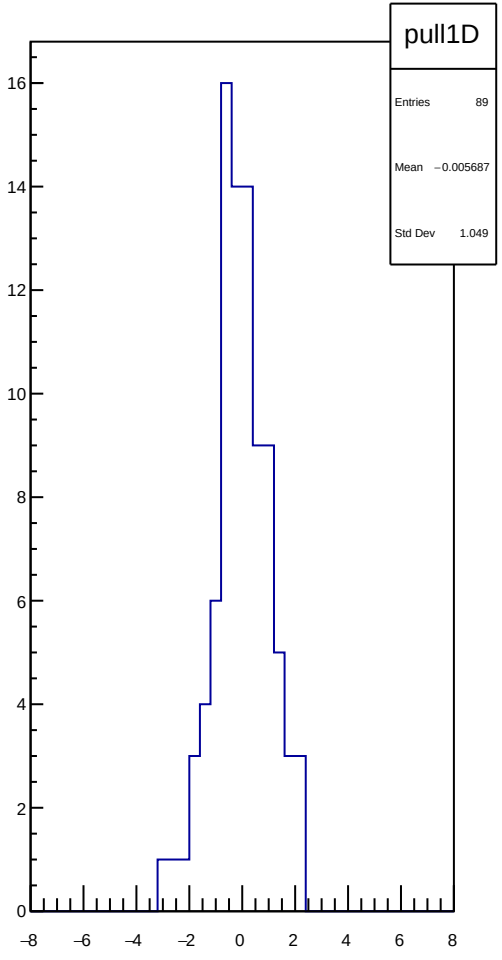

asym_sam_15_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.641e+04 / 88
p0 25.69 ± 0.01966
34
32
30
28
26
24
22
20

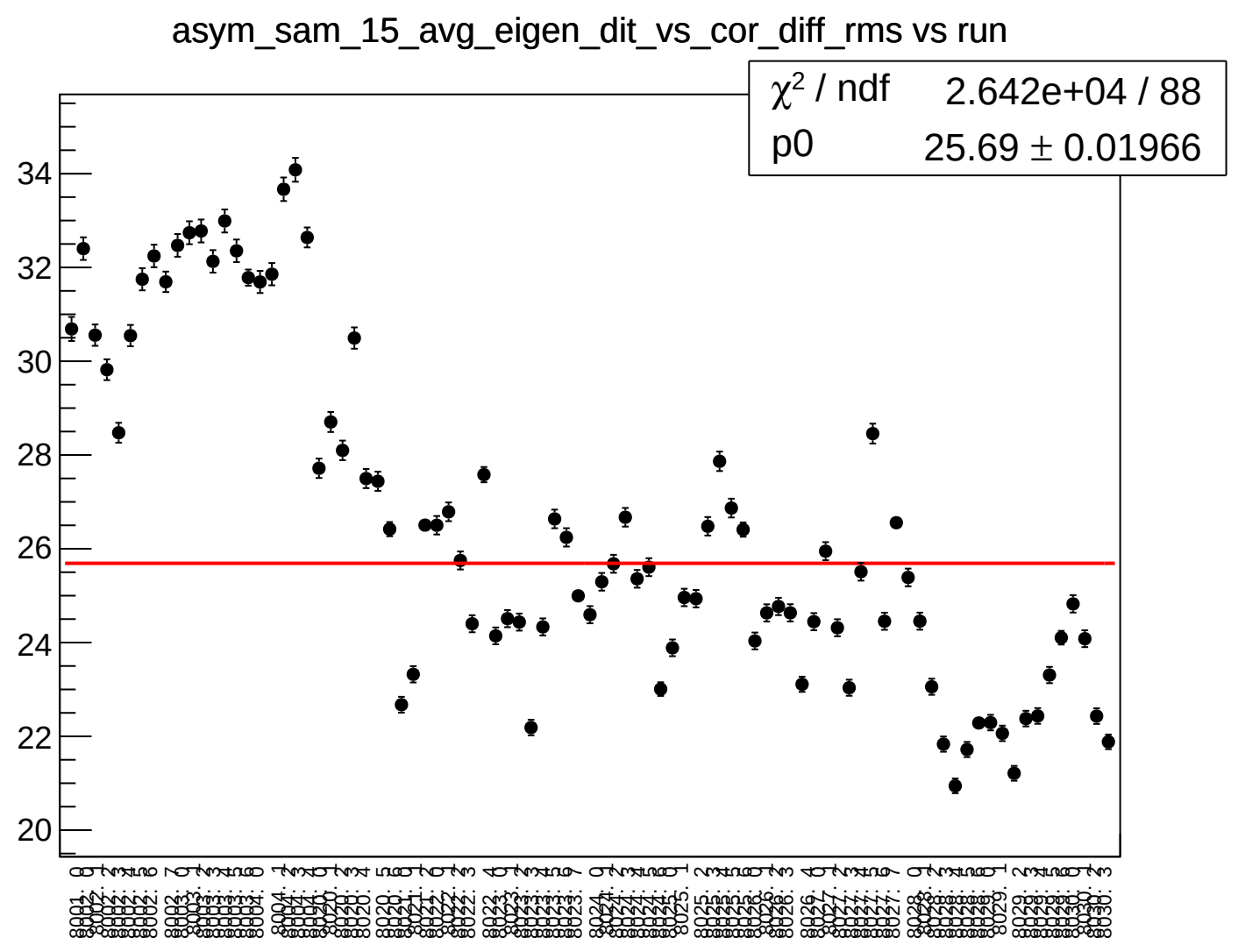

asym_sam_15_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83.15 / 88
p0 −8.448e−07 ± 1.552e−06
pull
Entries 89
Mean 132.2
Std Dev 0

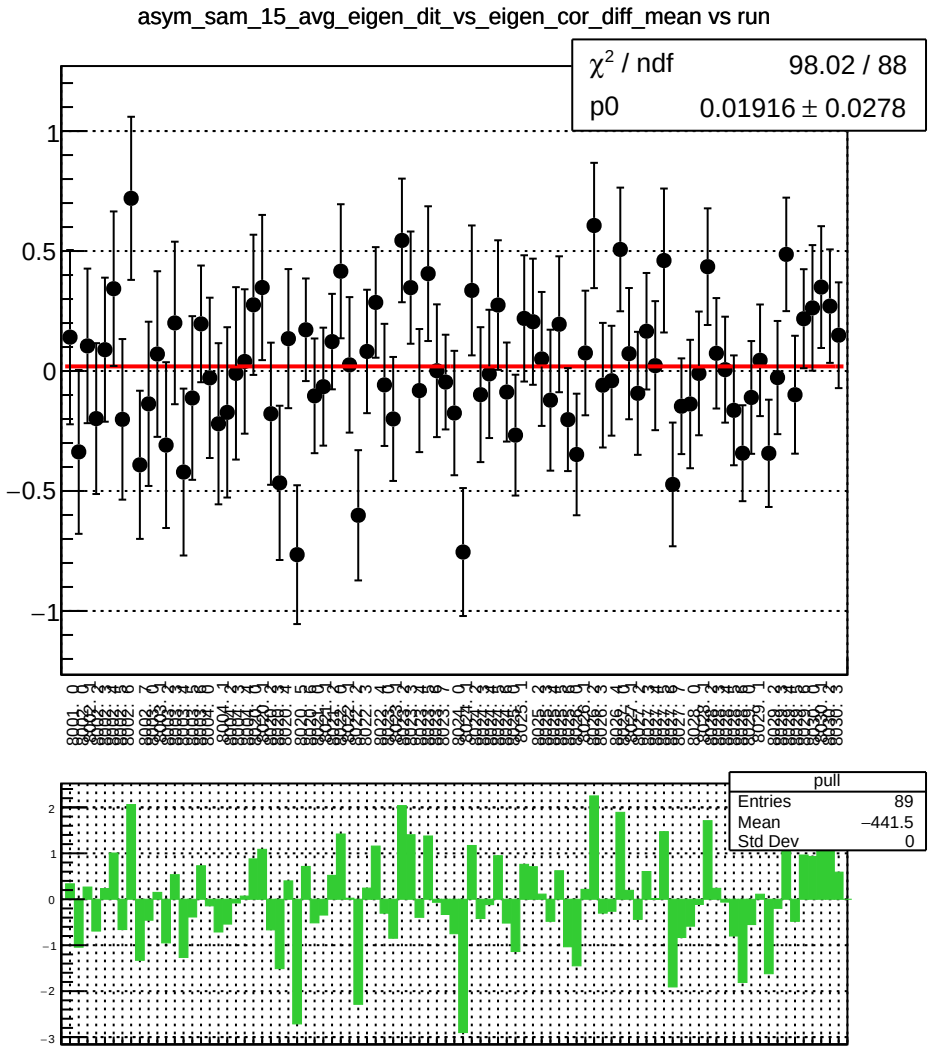

pull1D
Entries 89
Mean −0.01764
Std Dev 0.9664

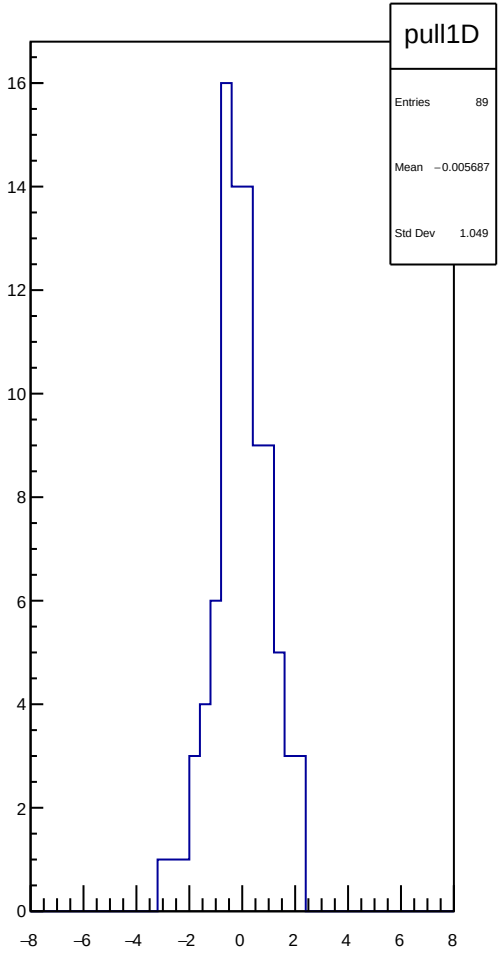

asym_sam_15_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.765e+04 / 88
p0 0.001421 ± 1.097e−06
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012

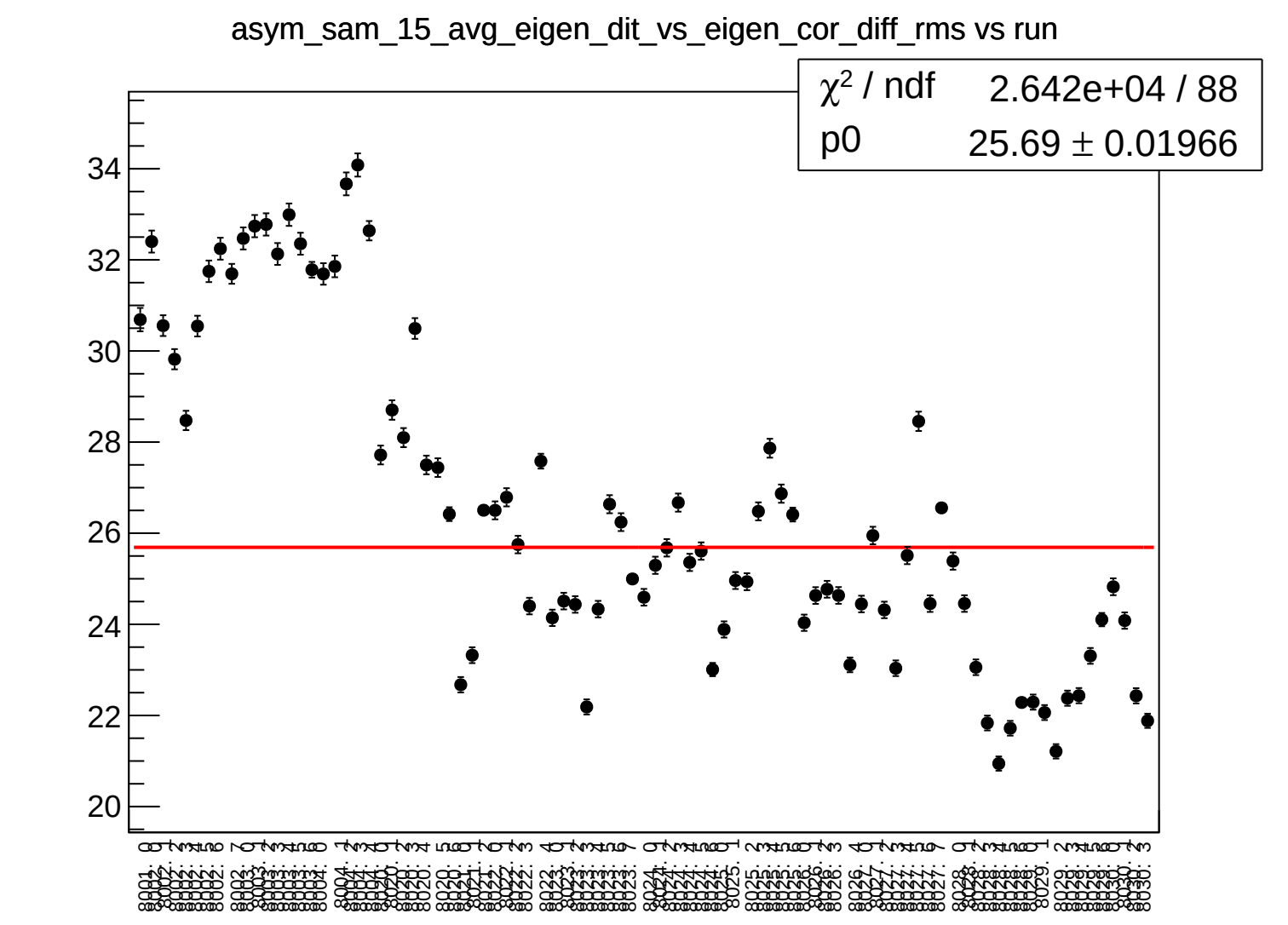

asym_sam_15_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 98.02 / 88
p0 0.01916 ± 0.0278
pull
Entries 89
Mean −441.5
Std Dev 0

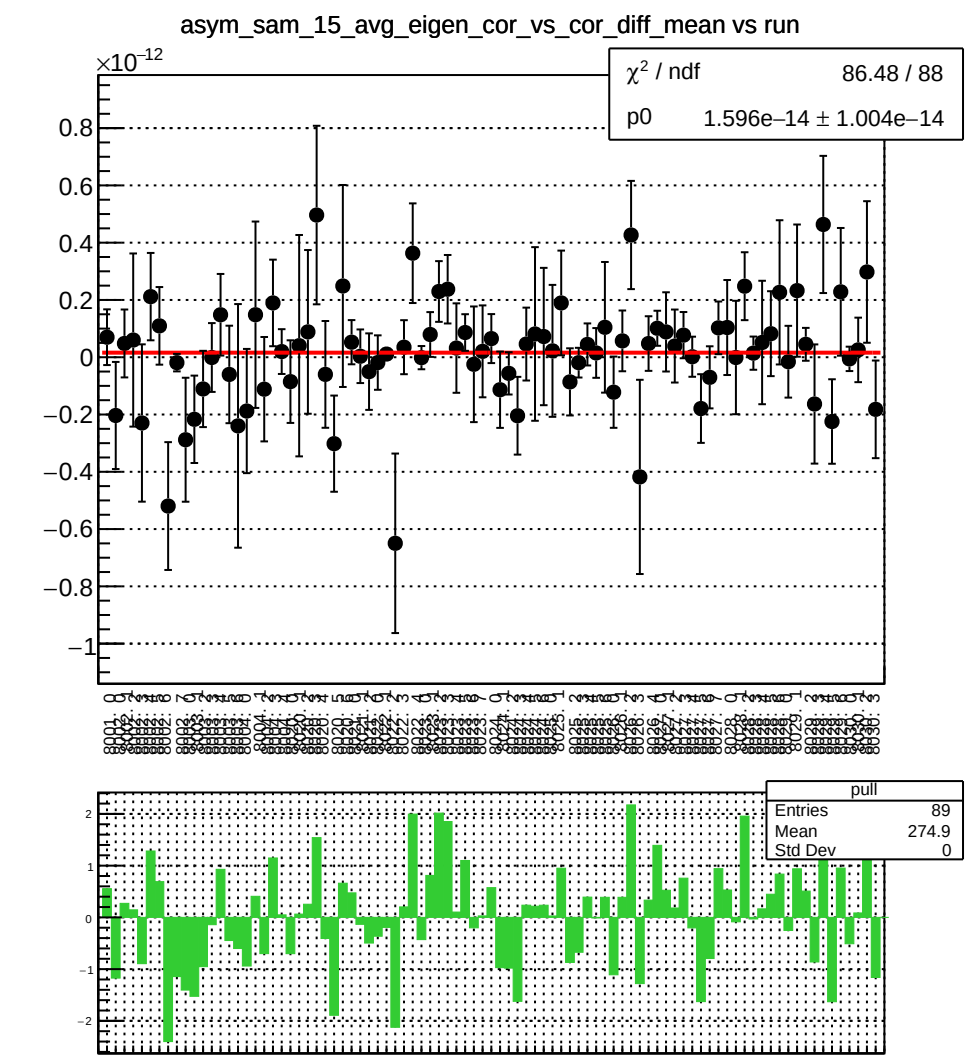

pull1D
Entries 89
Mean −0.005687
Std Dev 1.049

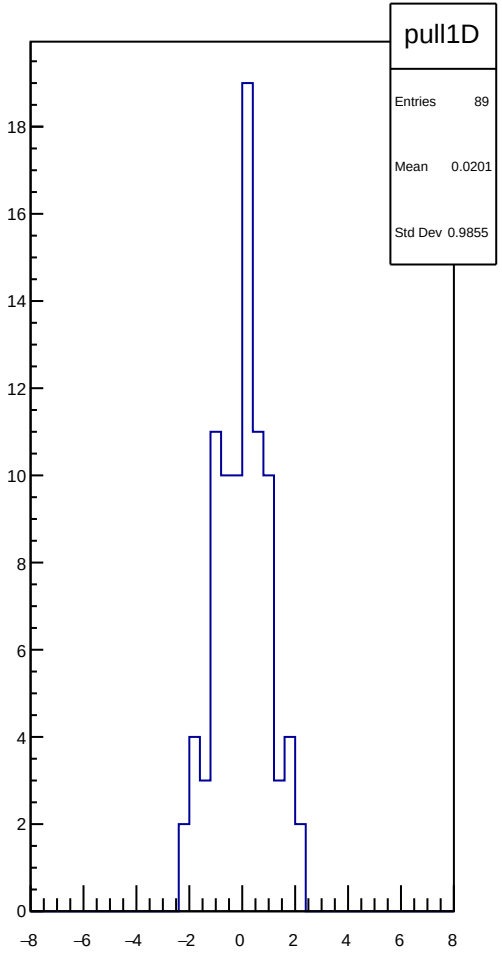

asym_sam_15_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.642e+04 / 88
p0 25.69 ± 0.01966
34
32
30
28
26
24
22
20

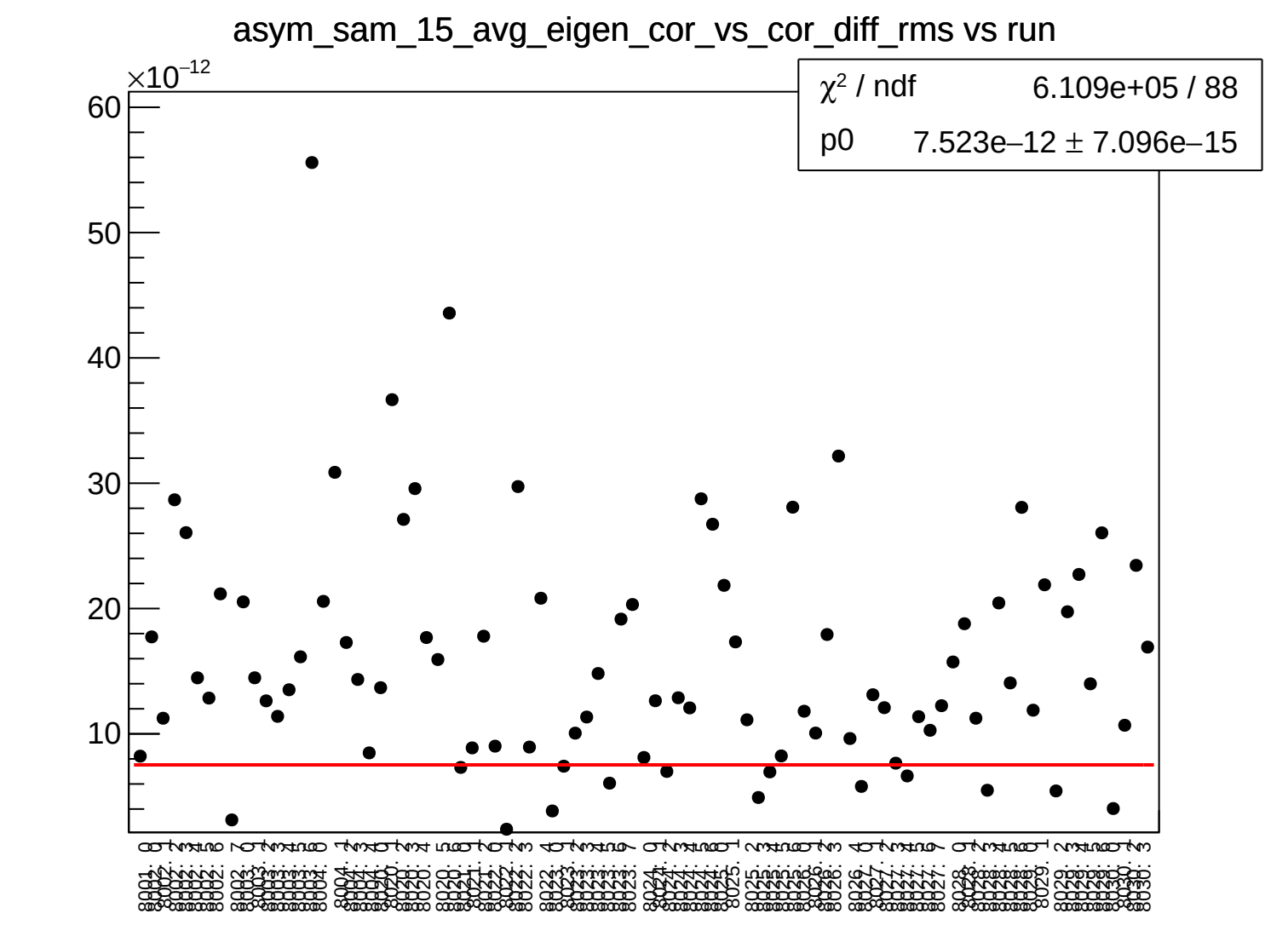

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.02 / 88
p0 0.01916 ± 0.0278
pull
Entries 89
Mean −441.5
Std Dev 0

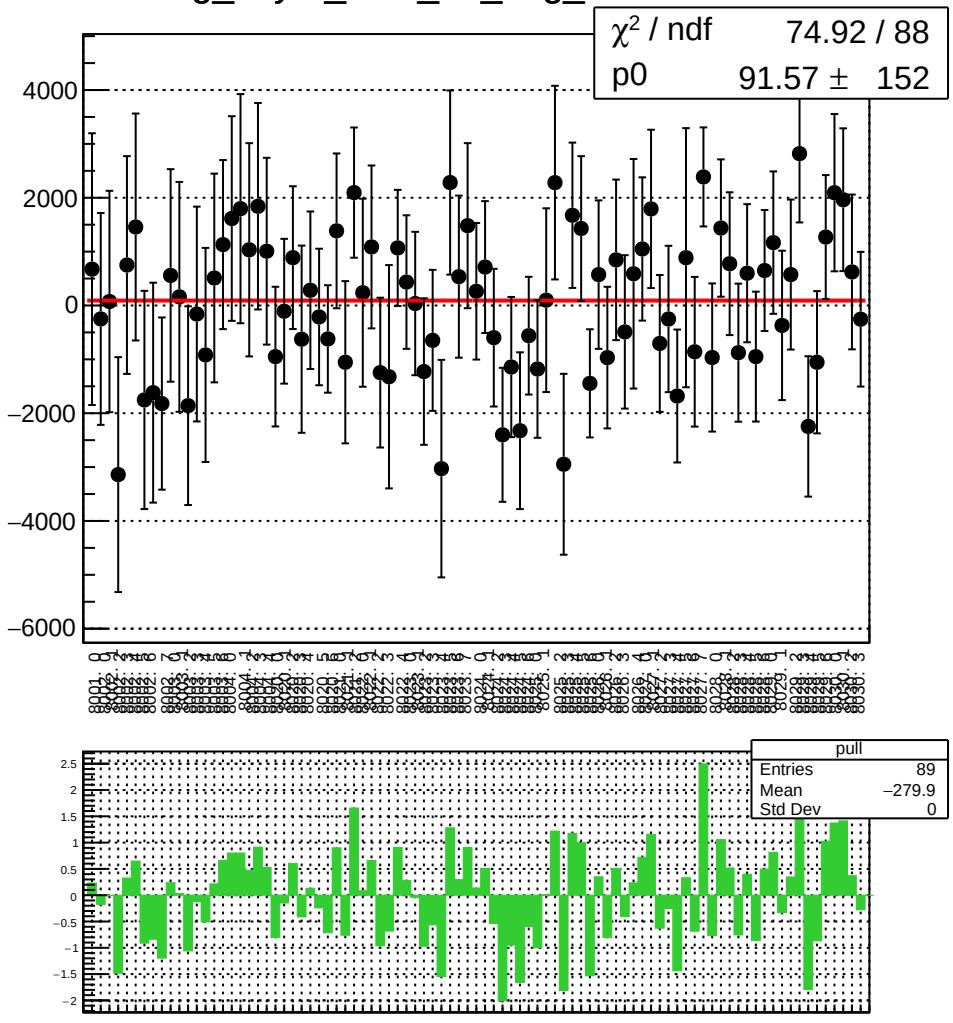

pull1D
Entries 89
Mean −0.005687
Std Dev 1.049

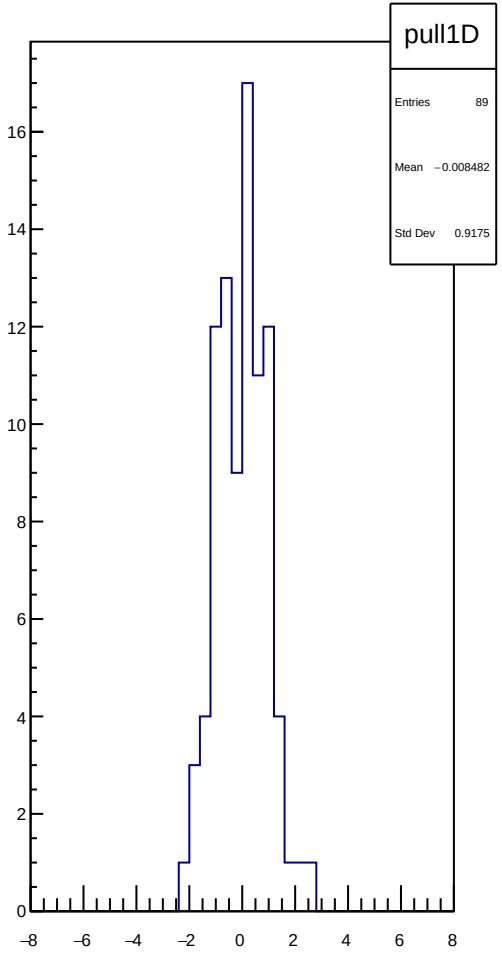

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.642e+04 / 88
p0 25.69 ± 0.01966
34
32
30
28
26
24
22
20

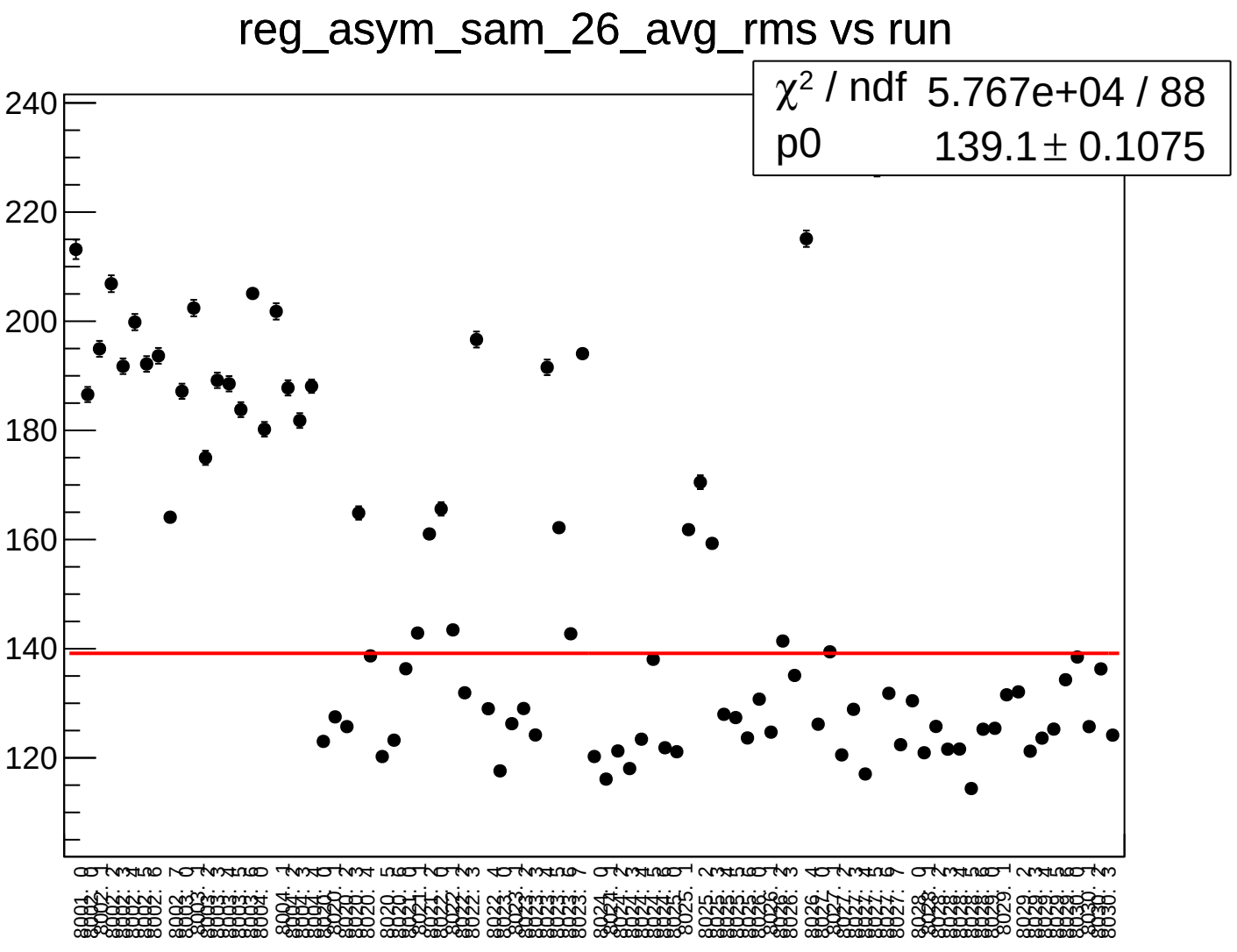

asym_sam_15_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.48 / 88
p0 1.596e−14 ± 1.004e−14
pull
Entries 89
Mean 274.9
Std Dev 0

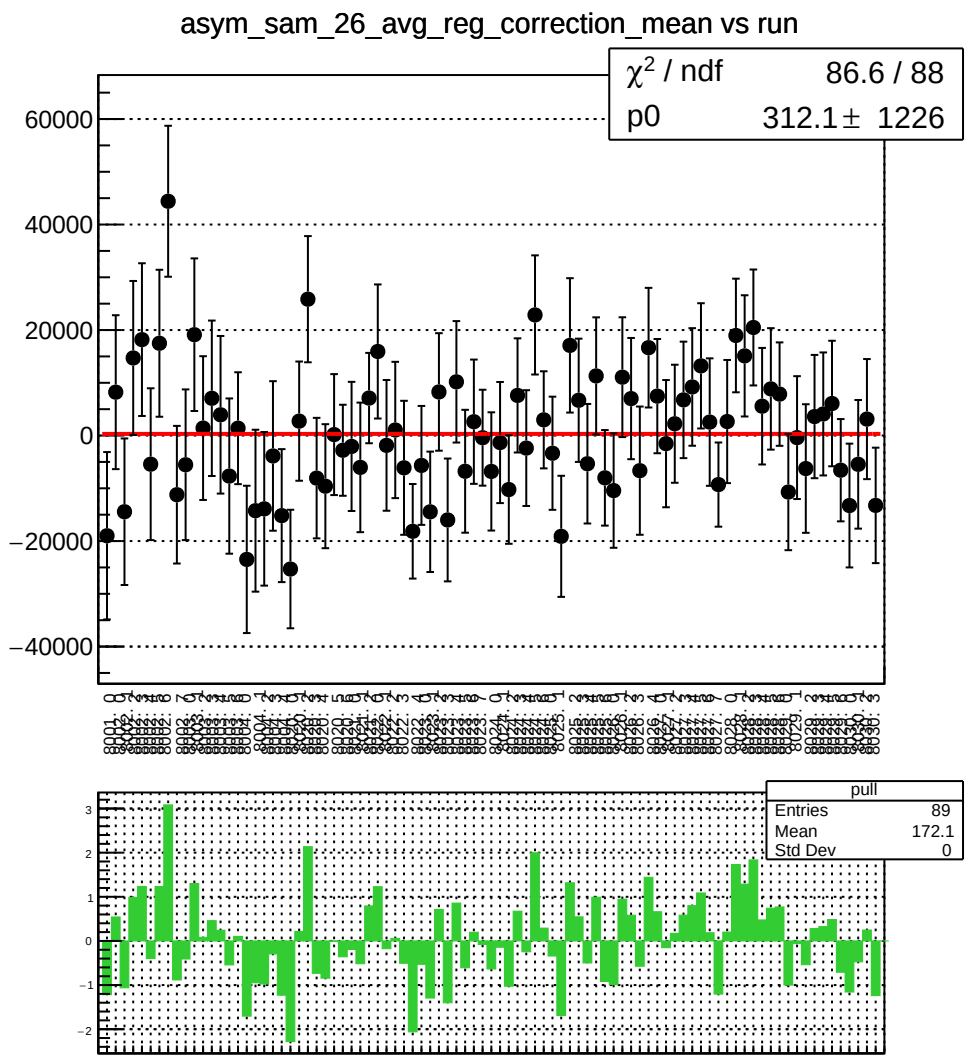

pull1D
Entries 89
Mean 0.0201
Std Dev 0.9855

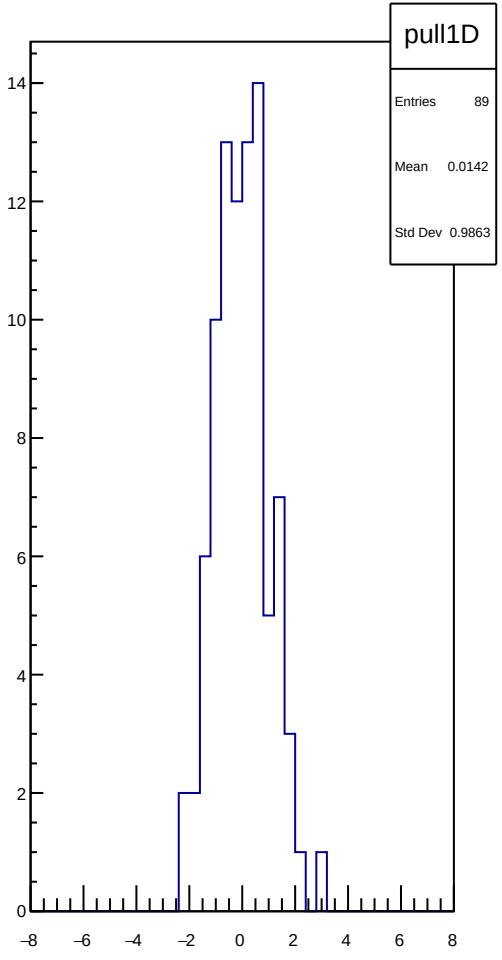

asym_sam_15_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.109e+05 / 88
p0 7.523e−12 ± 7.096e−15
60
50
40
30
20
10

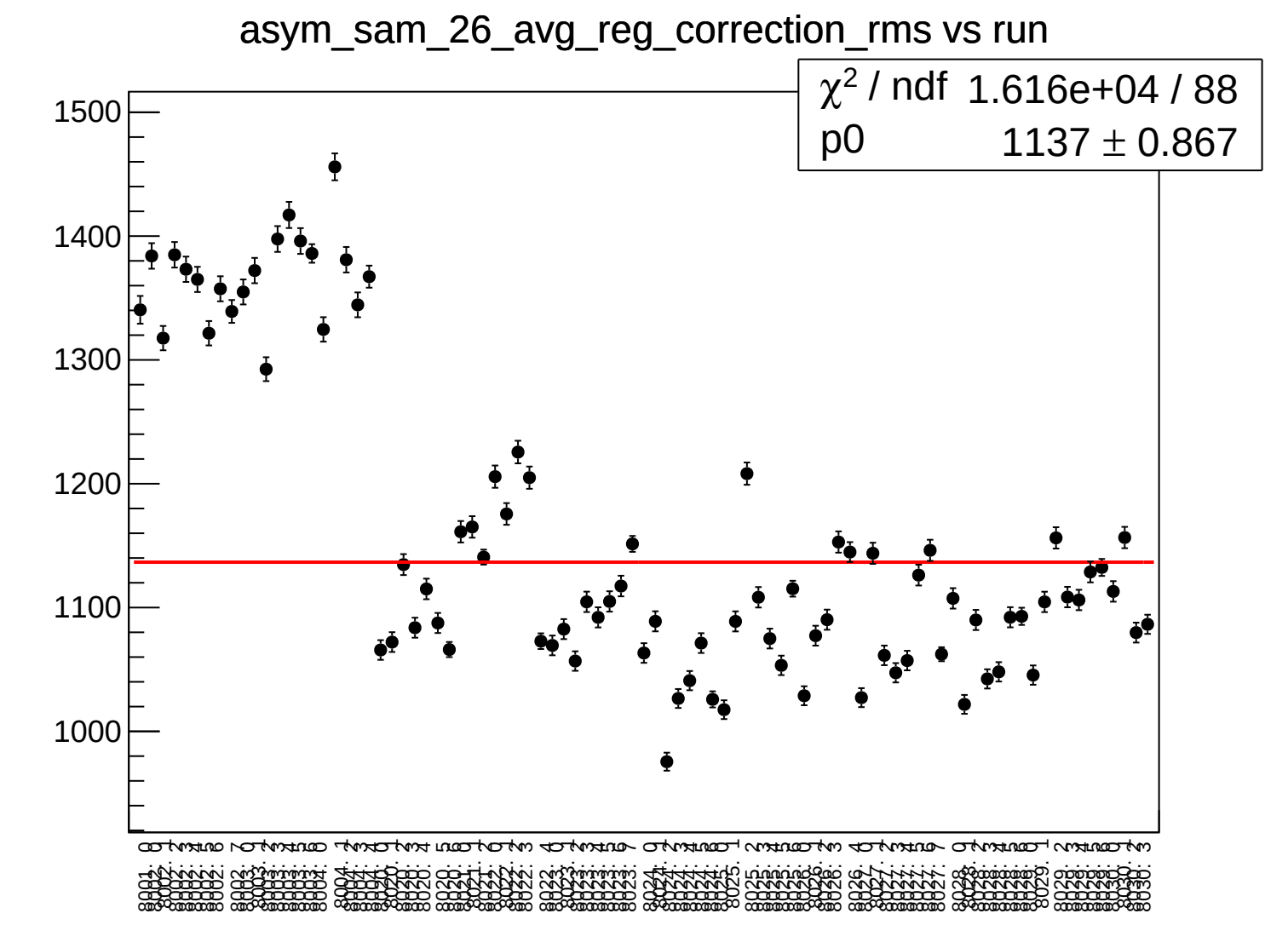

reg_asym_sam_26_avg_mean vs run
χ² / ndf 74.92 / 88
p0 91.57 ± 152
pull
Entries 89
Mean −279.9
Std Dev 0

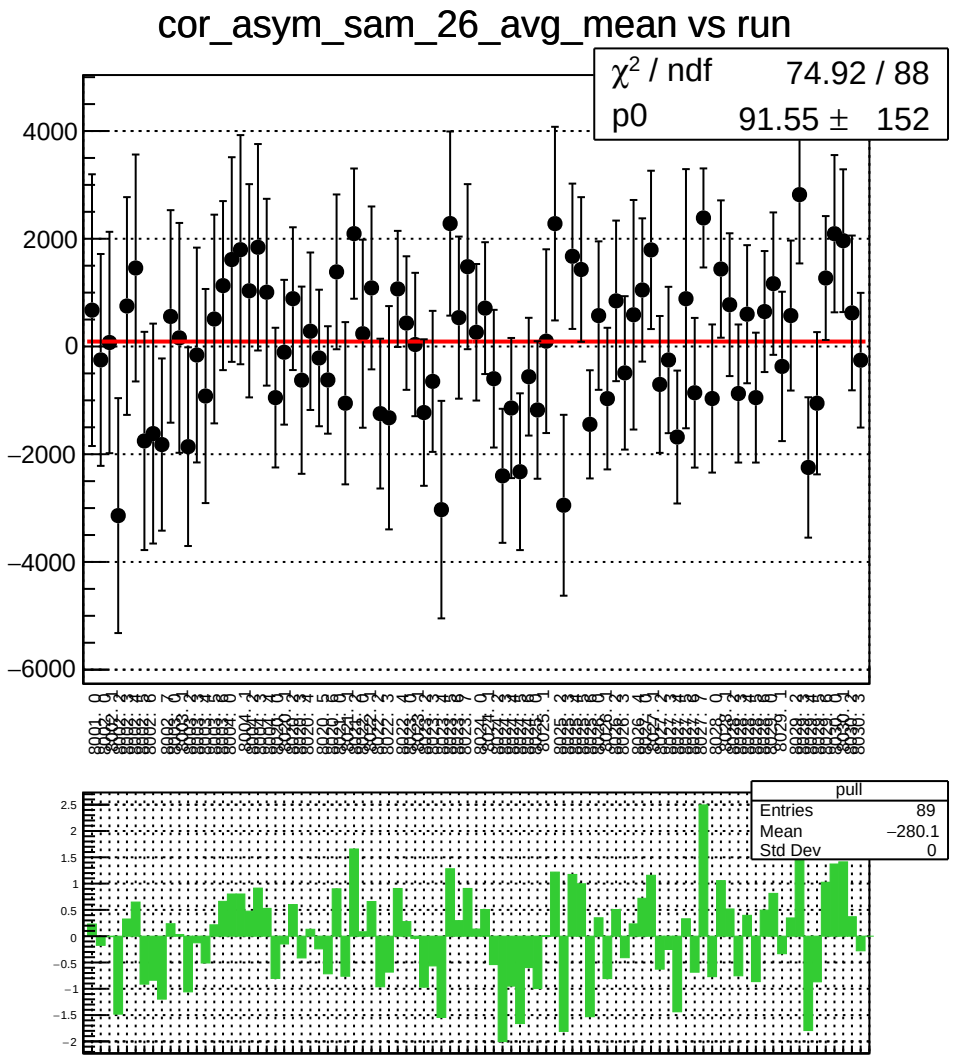

pull1D
Entries 89
Mean −0.008482
Std Dev 0.9175

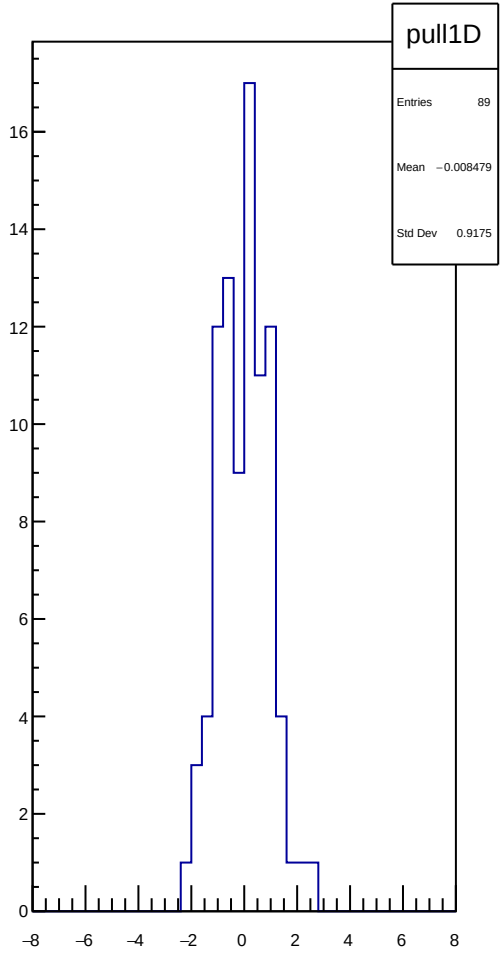

reg_asym_sam_26_avg_rms vs run
χ² / ndf 5.767e+04 / 88
p0 139.1 ± 0.1075
240
220
200
180
160
140
120

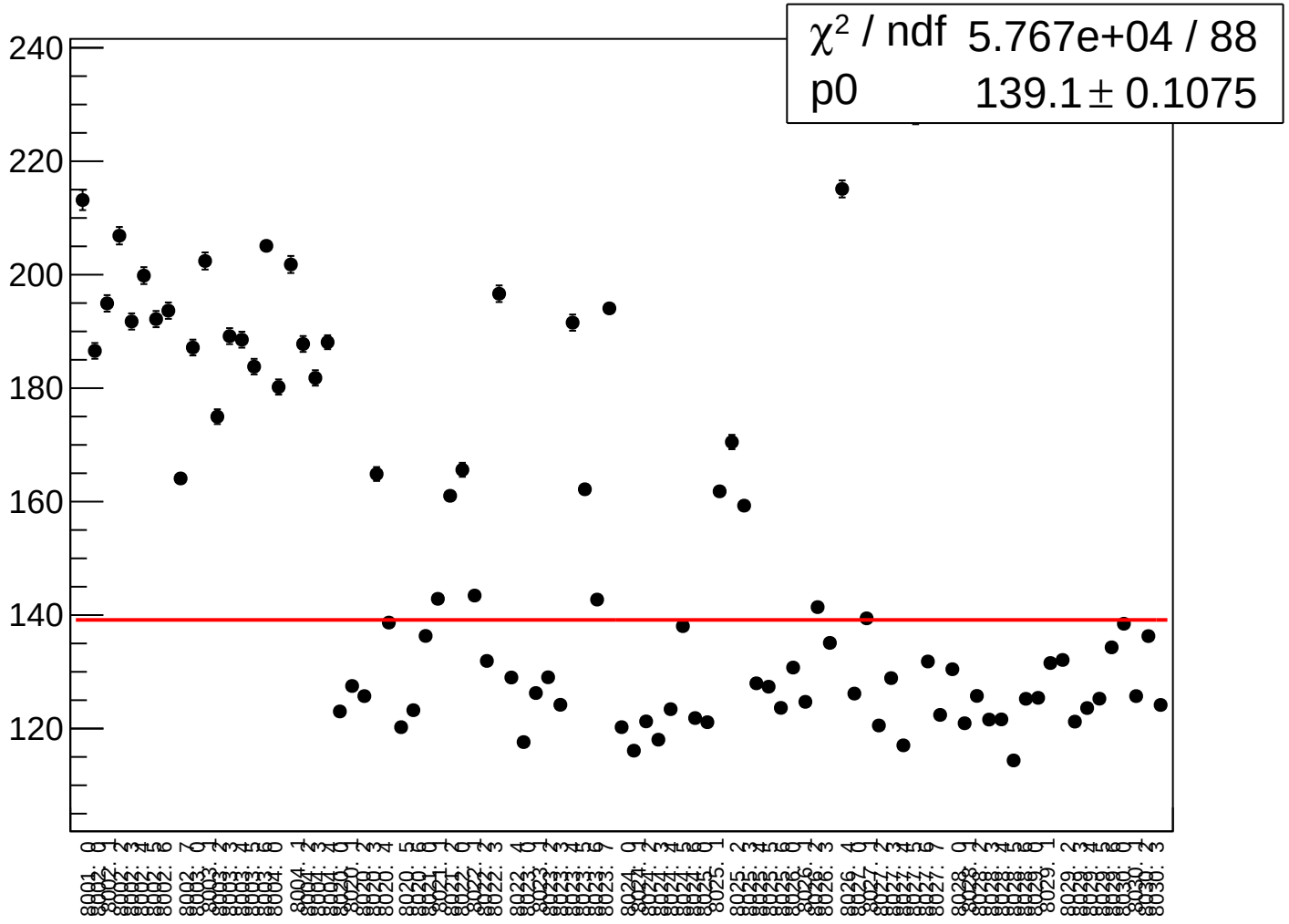

asym_sam_26_avg_reg_correction_mean vs run
χ² / ndf 86.6 / 88
p0 312.1 ± 1226
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 172.1
Std Dev 0
3
2
1
0
−1
−2

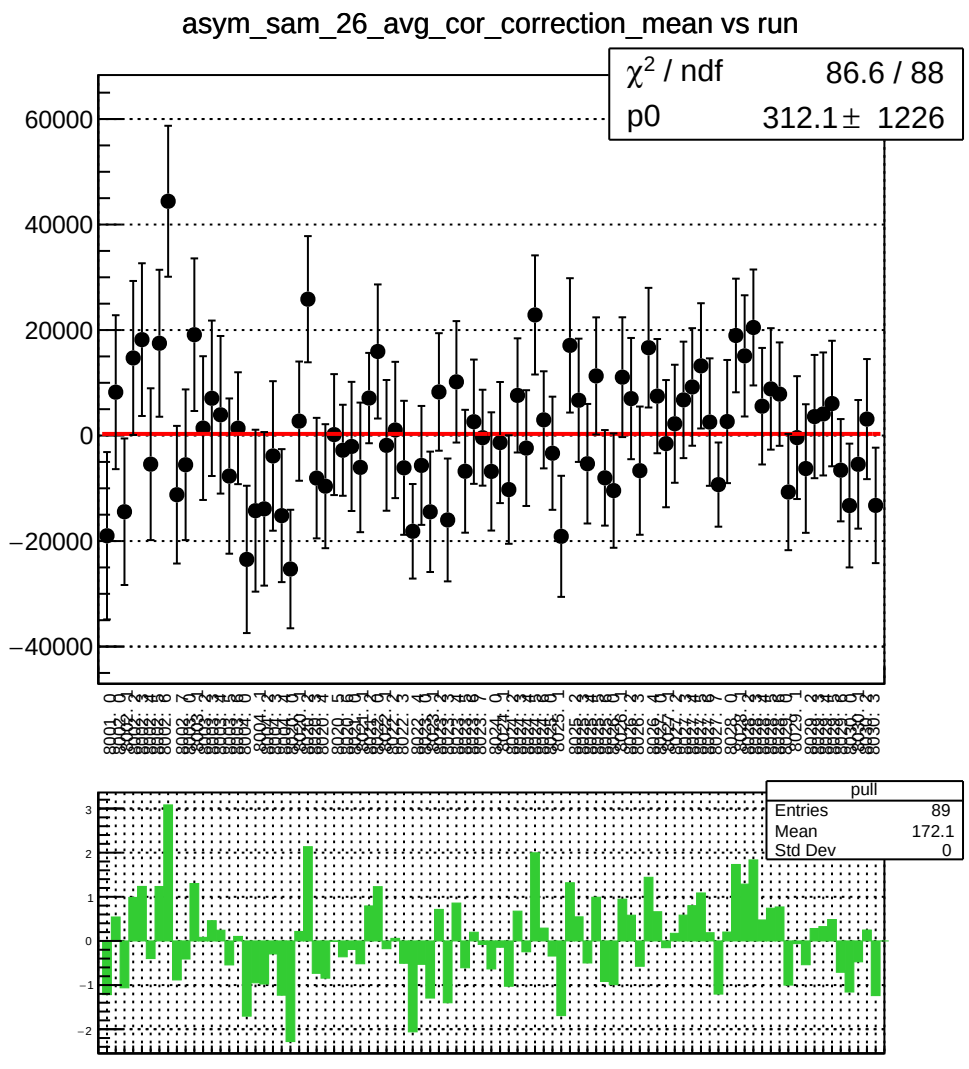

pull1D
Entries 89
Mean 0.0142
Std Dev 0.9863
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

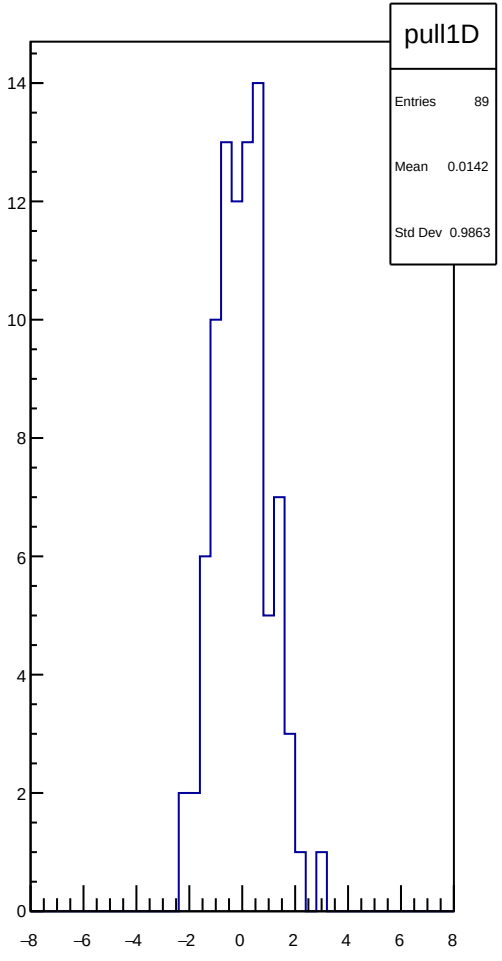

asym_sam_26_avg_reg_correction_rms vs run
χ² / ndf 1.616e+04 / 88
p0 1137 ± 0.867
1500
1400
1300
1200
1100
1000

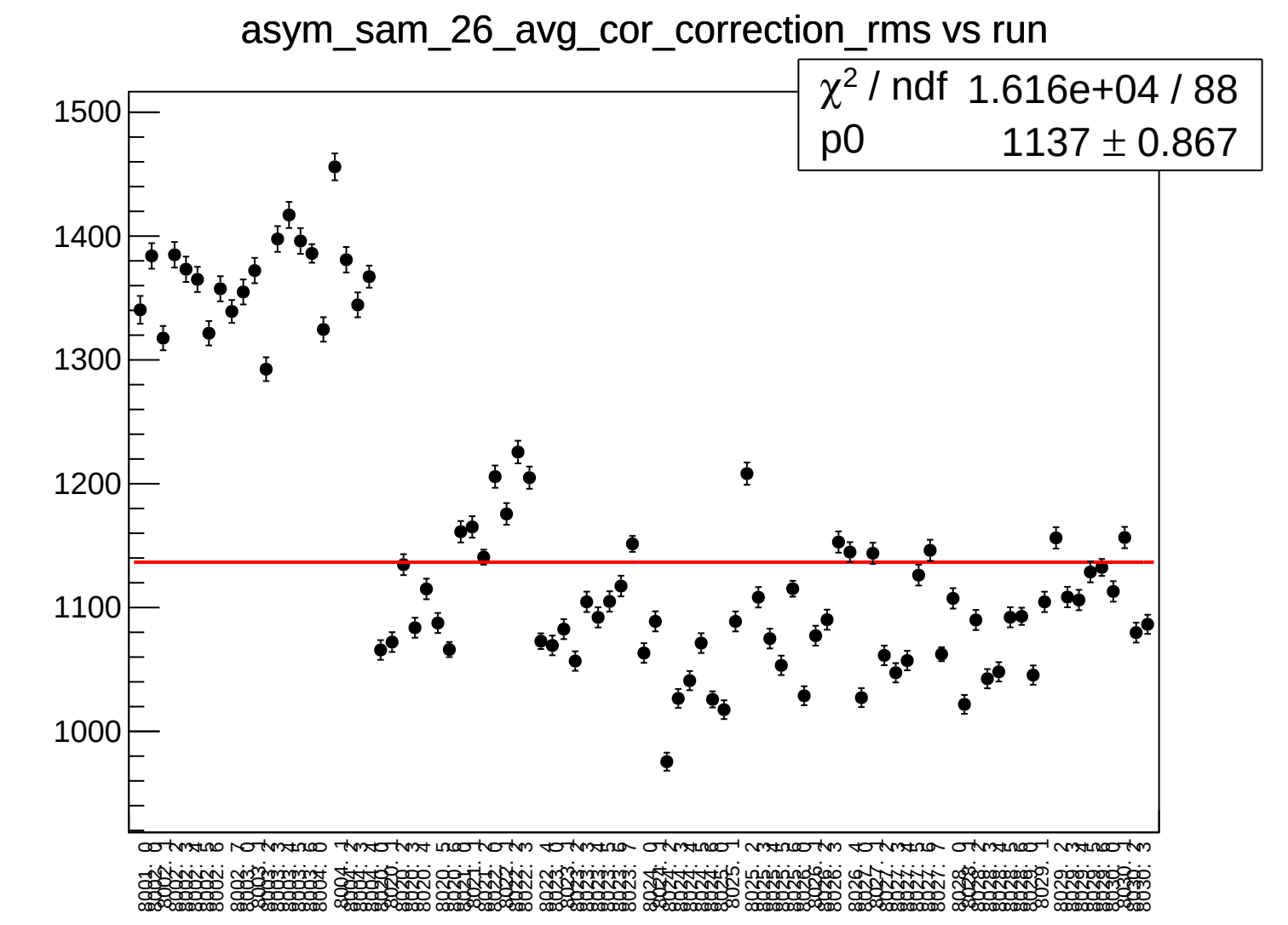

cor_asym_sam_26_avg_mean vs run
χ² / ndf 74.92 / 88
p0 91.55 ± 152
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean −280.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

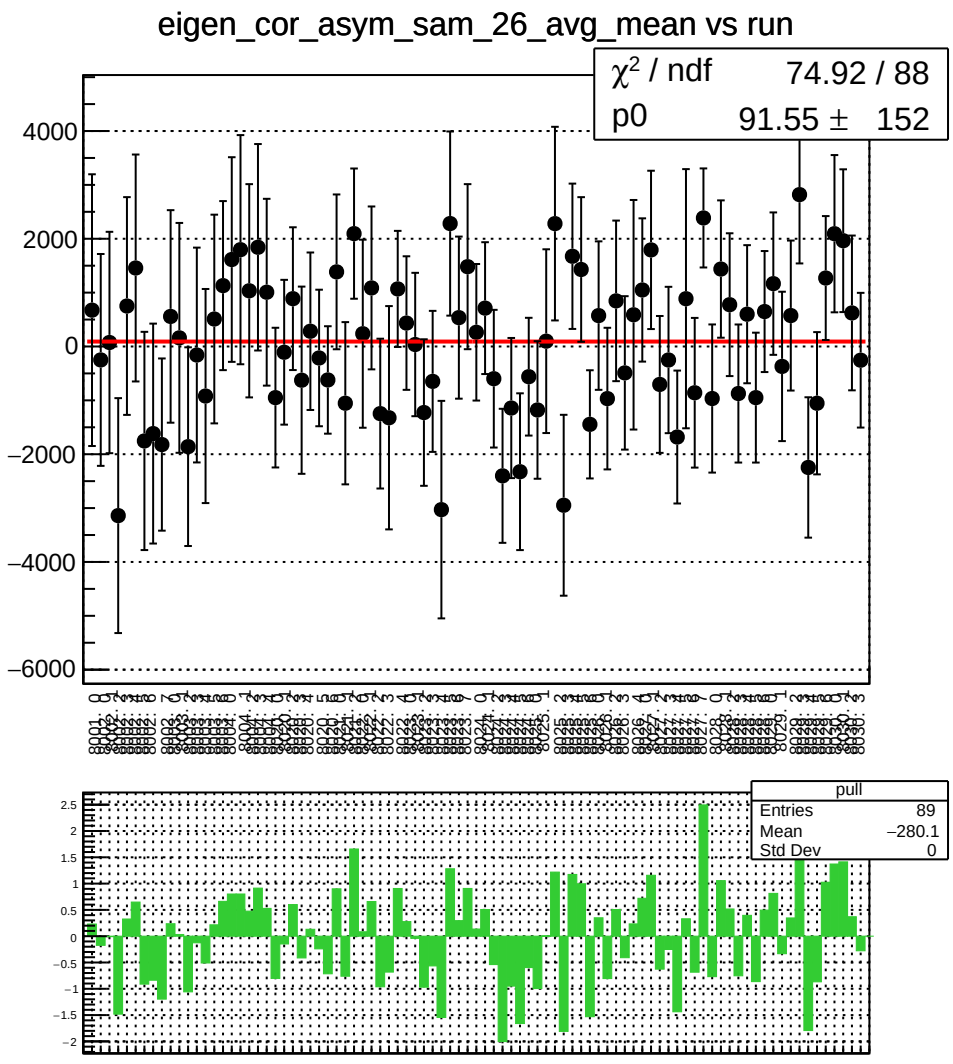

pull1D
Entries 89
Mean −0.008479
Std Dev 0.9175
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

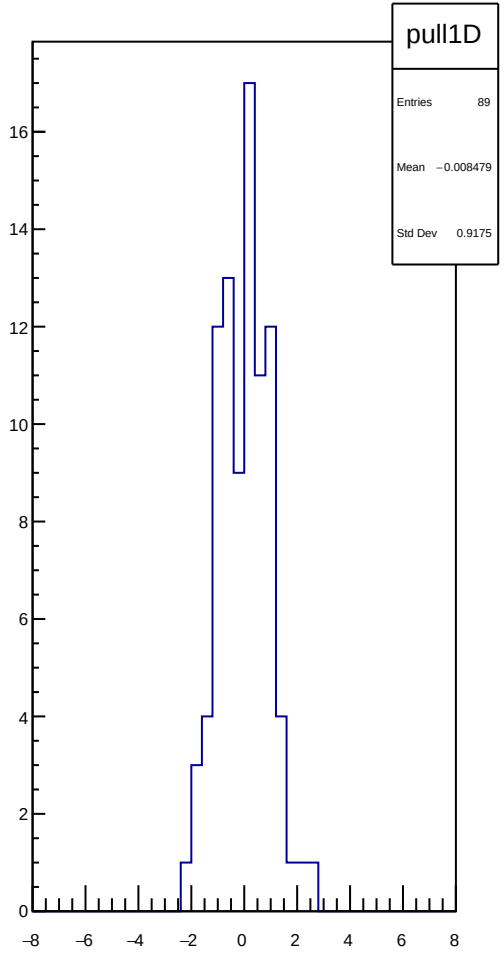

cor_asym_sam_26_avg_rms vs run
χ² / ndf 5.767e+04 / 88
p0 139.1 ± 0.1075
240
220
200
180
160
140
120

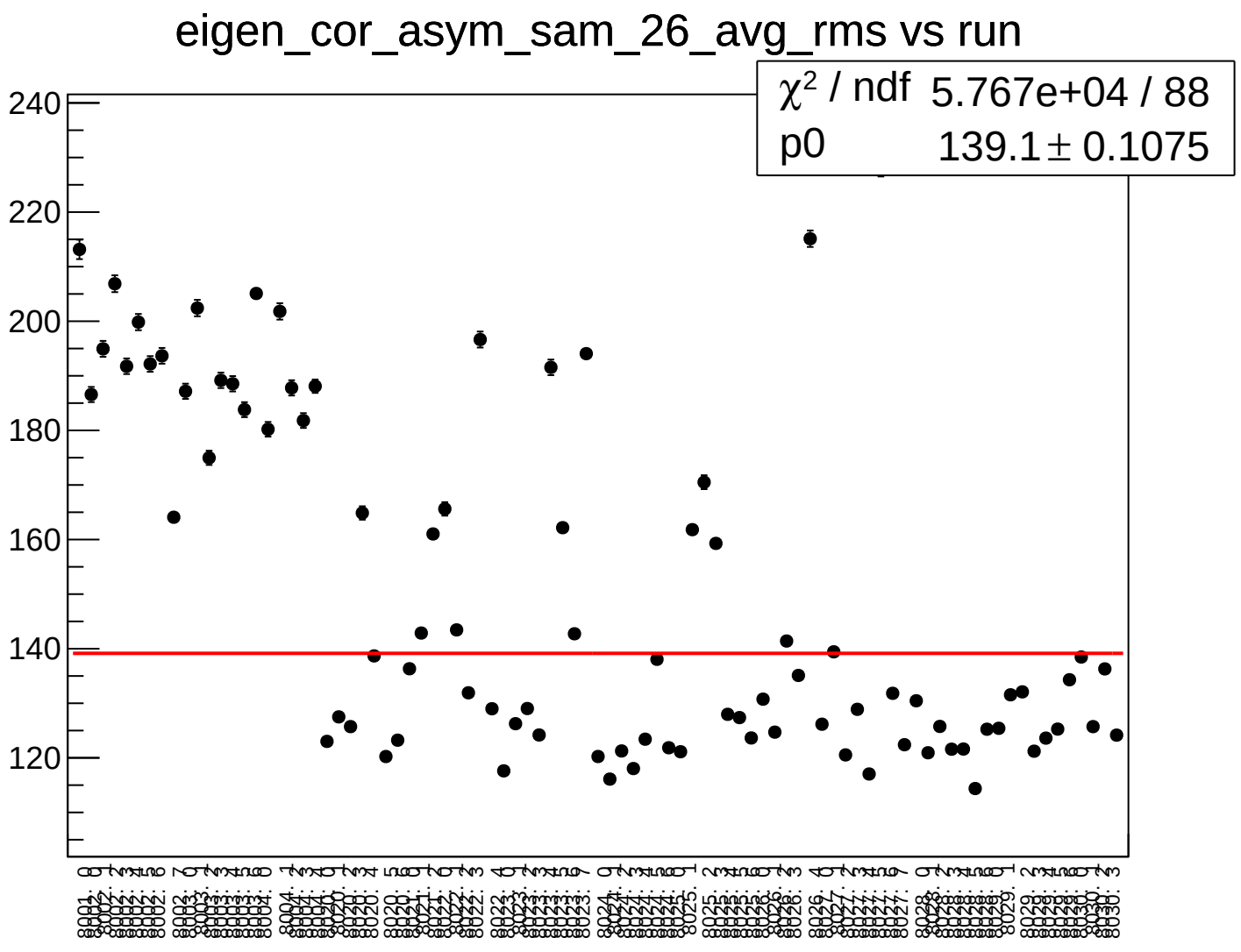

asym_sam_26_avg_cor_correction_mean vs run
χ² / ndf 86.6 / 88
p0 312.1 ± 1226
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 172.1
Std Dev 0
3
2
1
0
−1
−2

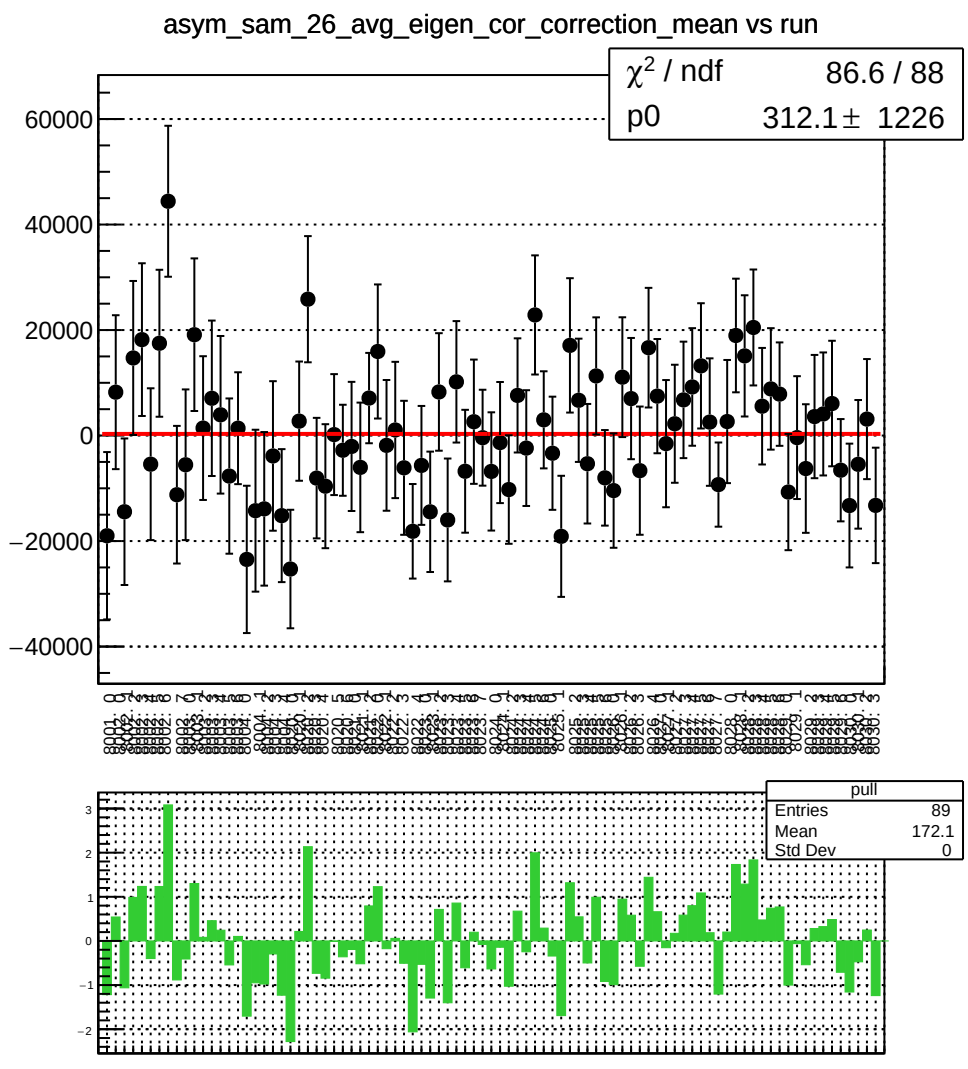

pull1D
Entries 89
Mean 0.0142
Std Dev 0.9863
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

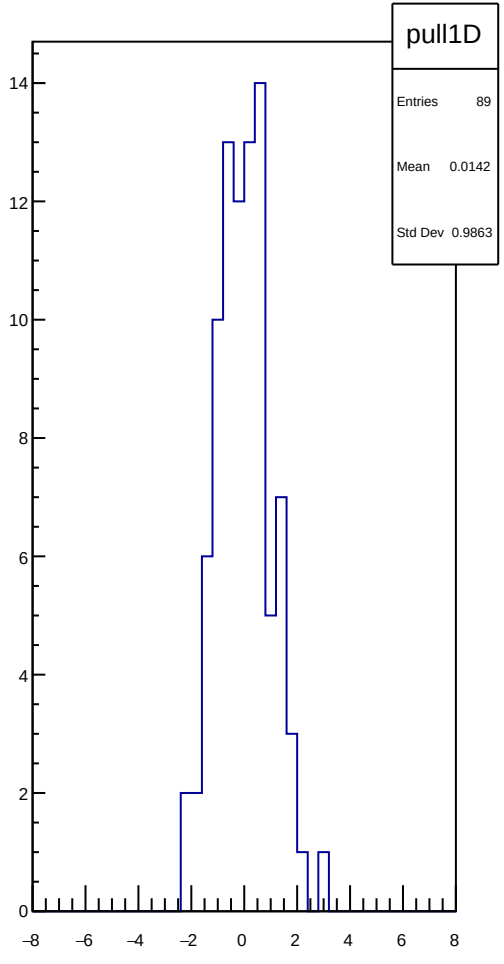

asym_sam_26_avg_cor_correction_rms vs run
χ² / ndf 1.616e+04 / 88
p0 1137 ± 0.867
1500
1400
1300
1200
1100
1000

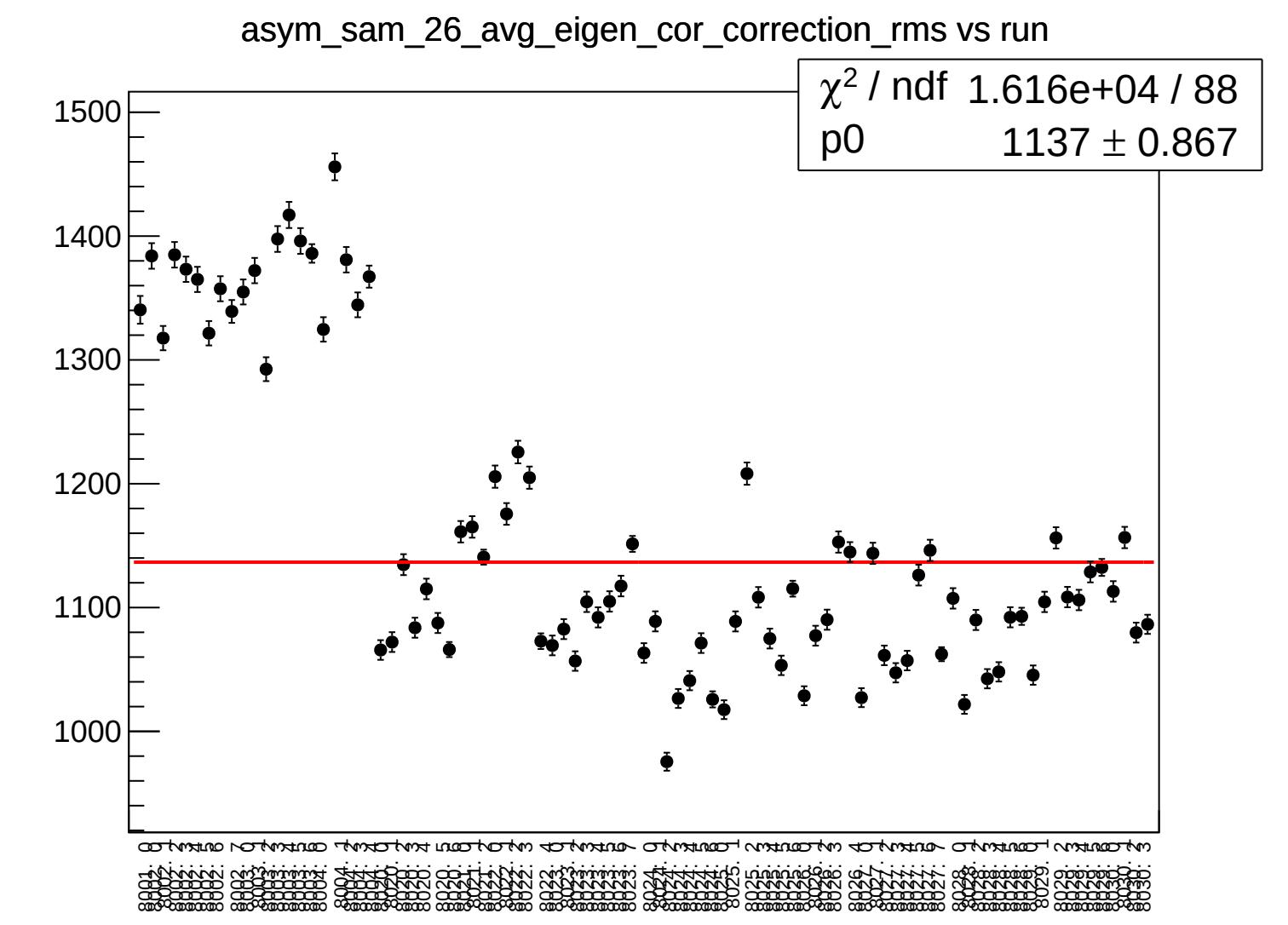

eigen_cor_asym_sam_26_avg_mean vs run
χ² / ndf 74.92 / 88
p0 91.55 ± 152
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean −280.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

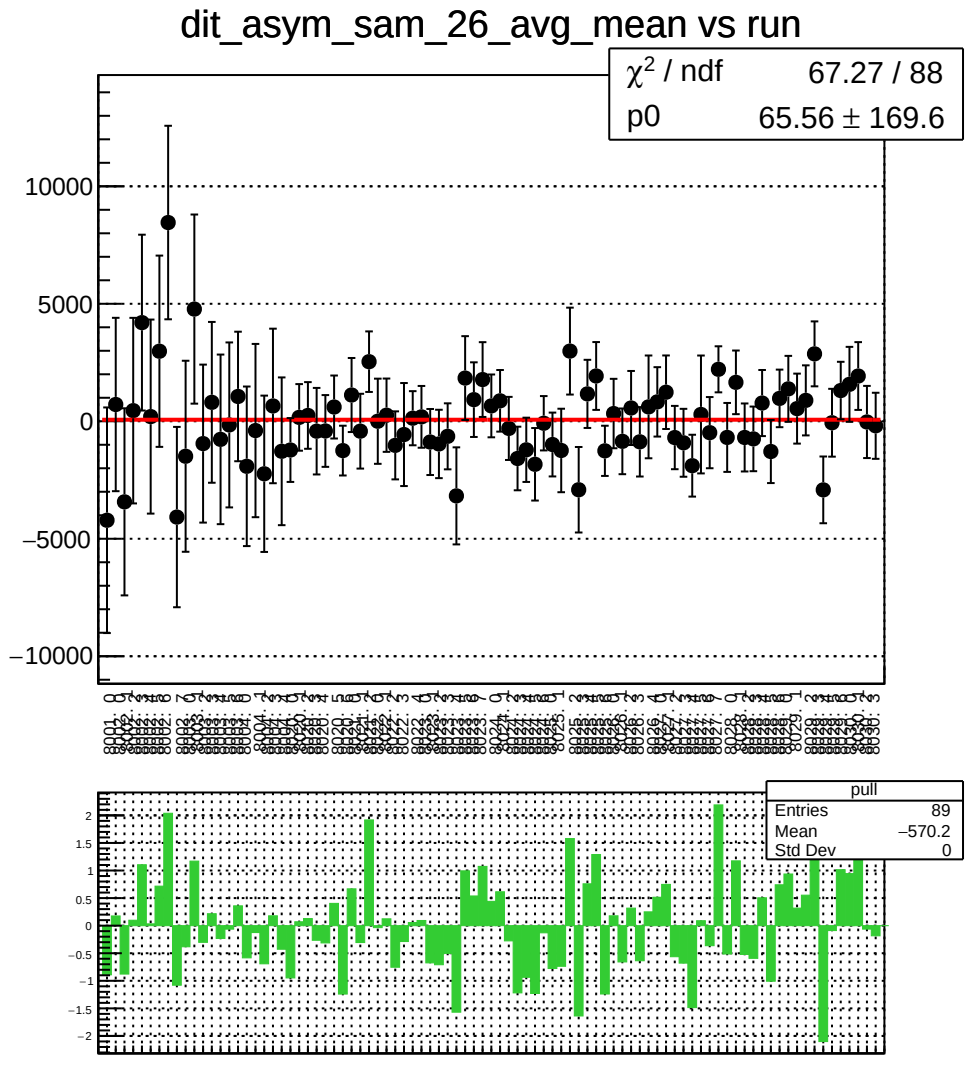

pull1D
Entries 89
Mean −0.008479
Std Dev 0.9175
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

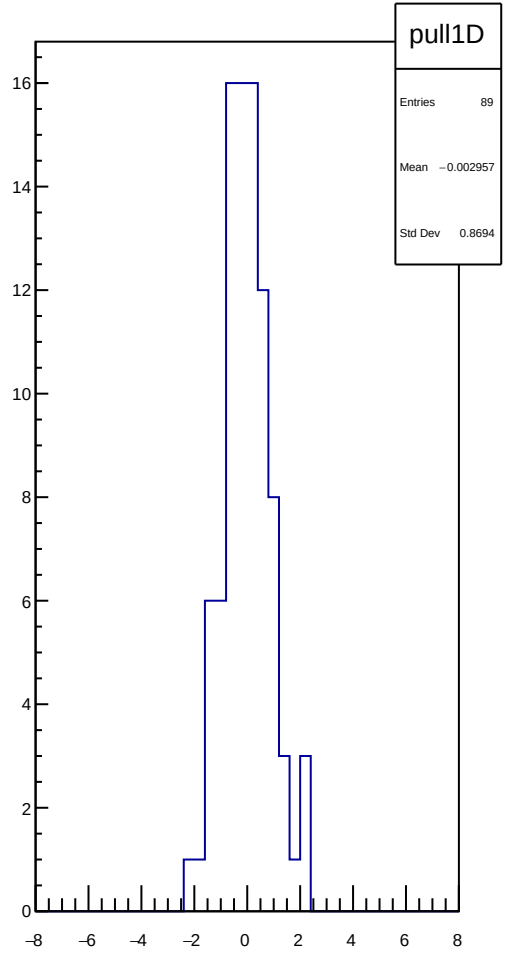

eigen_cor_asym_sam_26_avg_rms vs run
χ² / ndf 5.767e+04 / 88
p0 139.1 ± 0.1075
240
220
200
180
160
140
120

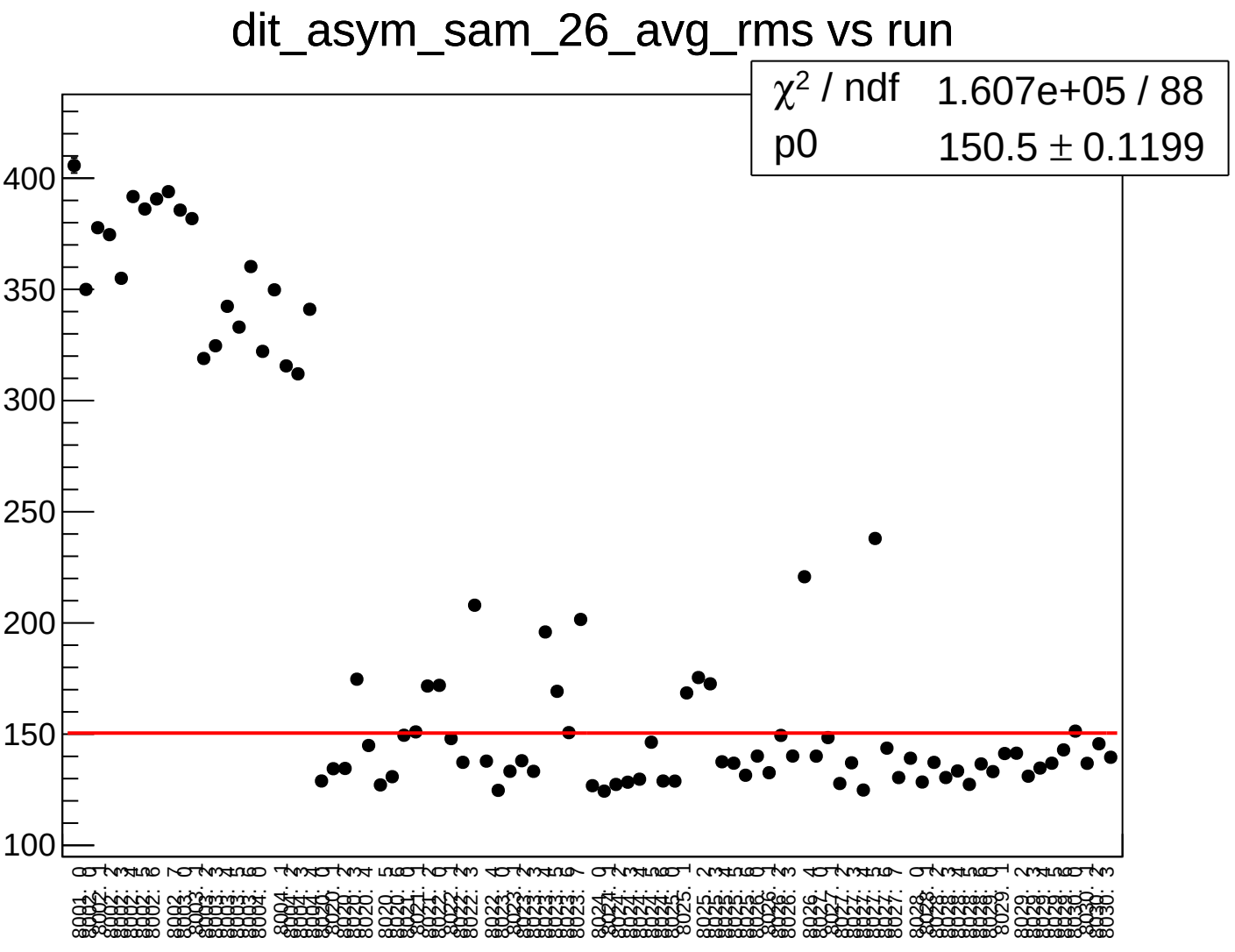

asym_sam_26_avg_eigen_cor_correction_mean vs run
χ² / ndf 86.6 / 88
p0 312.1± 1226
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 172.1
Std Dev 0
3
2
1
0
−1
−2

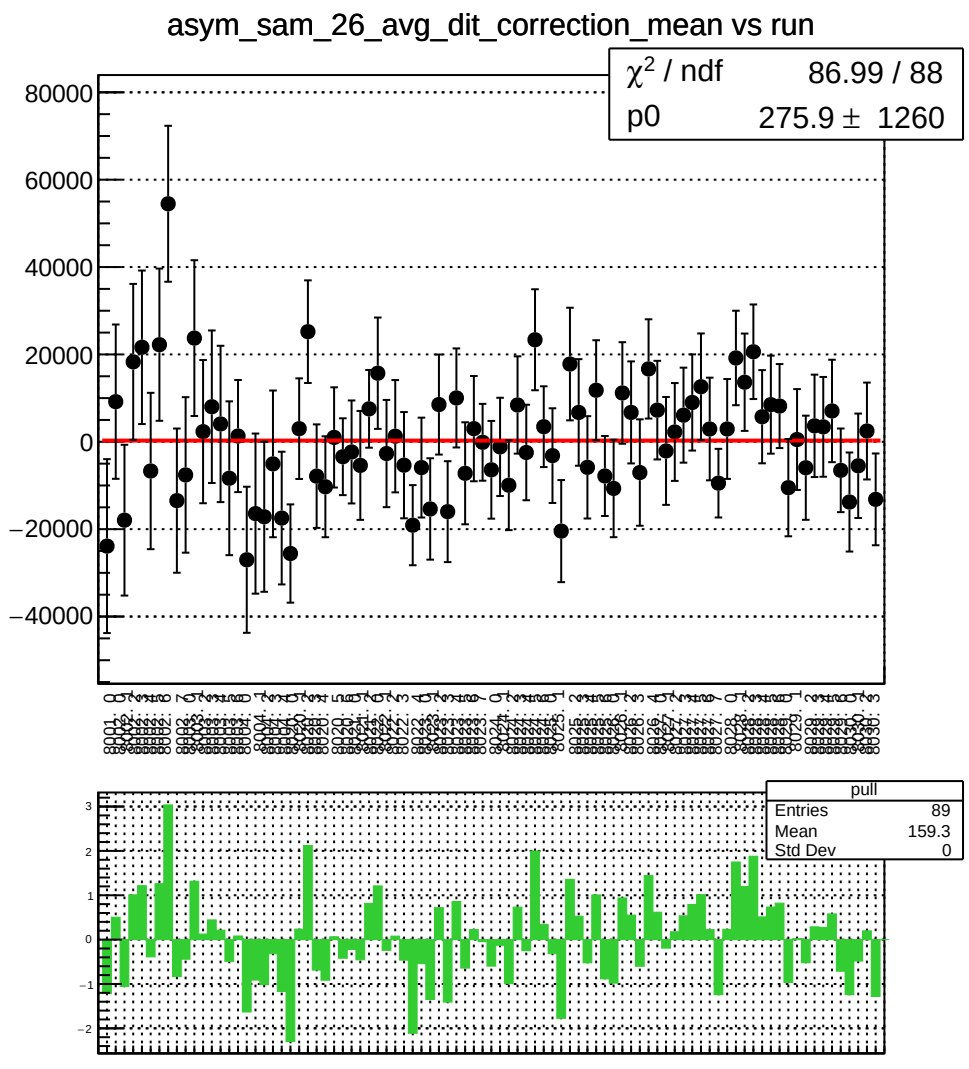

pull1D
Entries 89
Mean 0.0142
Std Dev 0.9863
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

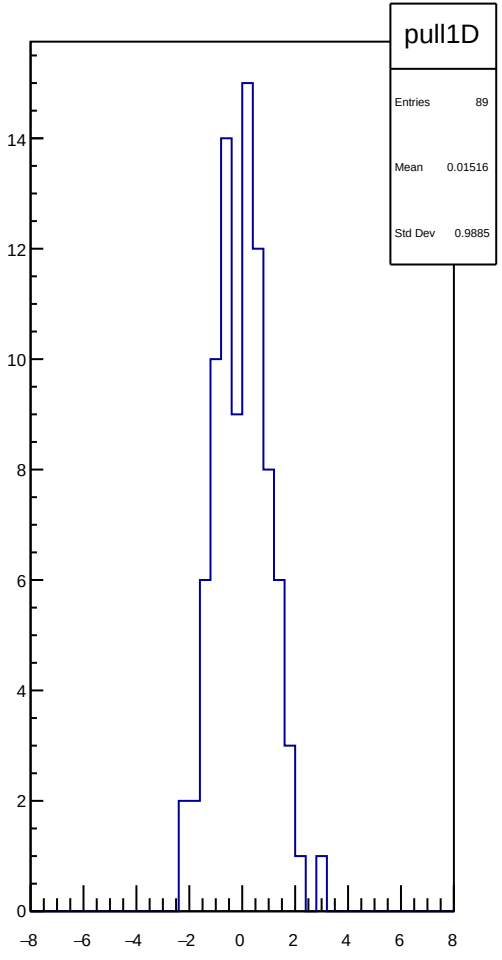

asym_sam_26_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.616e+04 / 88
p0 1137 ± 0.867
1500
1400
1300
1200
1100
1000

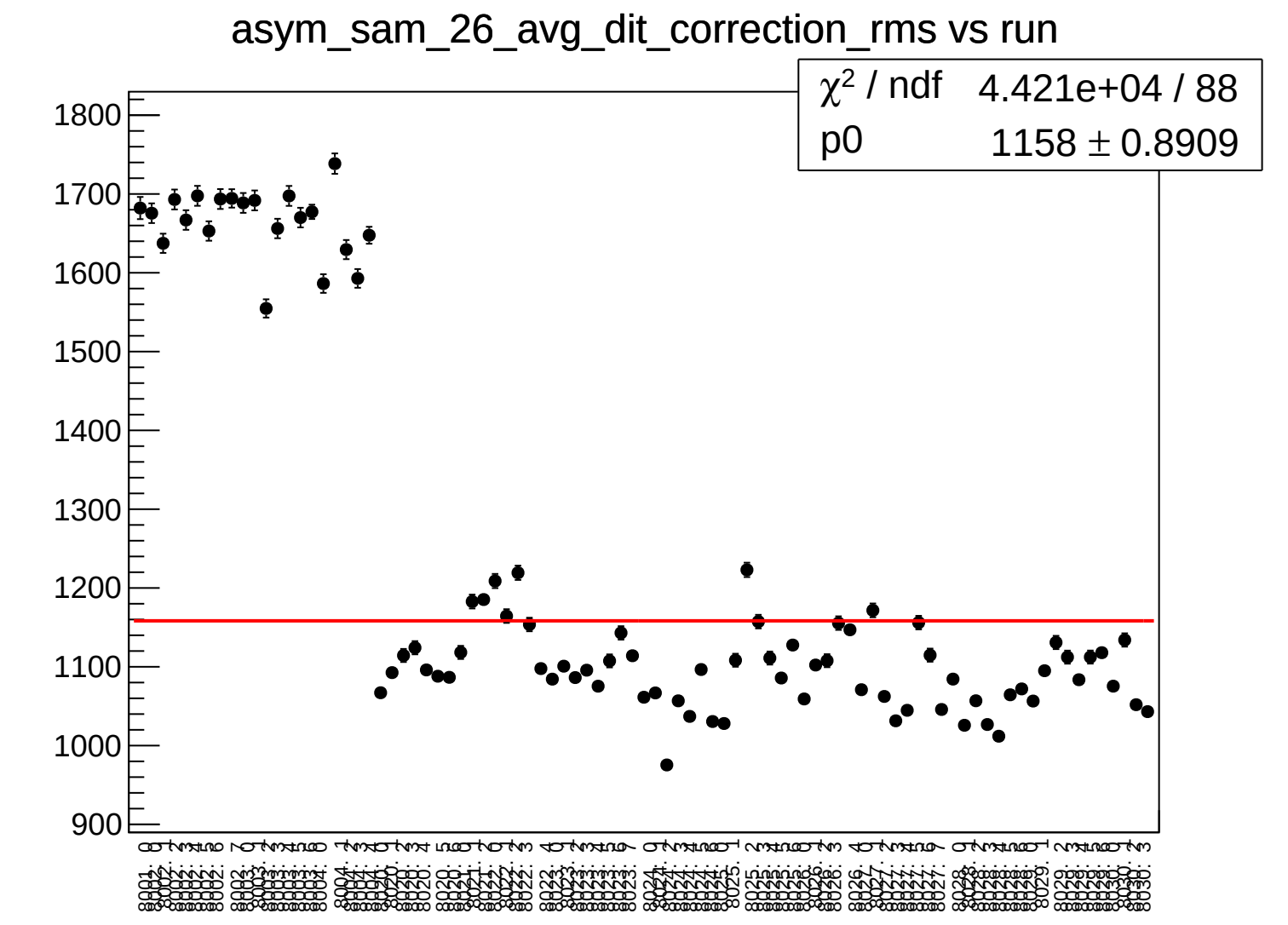

dit_asym_sam_26_avg_mean vs run
χ² / ndf 67.27 / 88
p0 65.56 ± 169.6
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −570.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

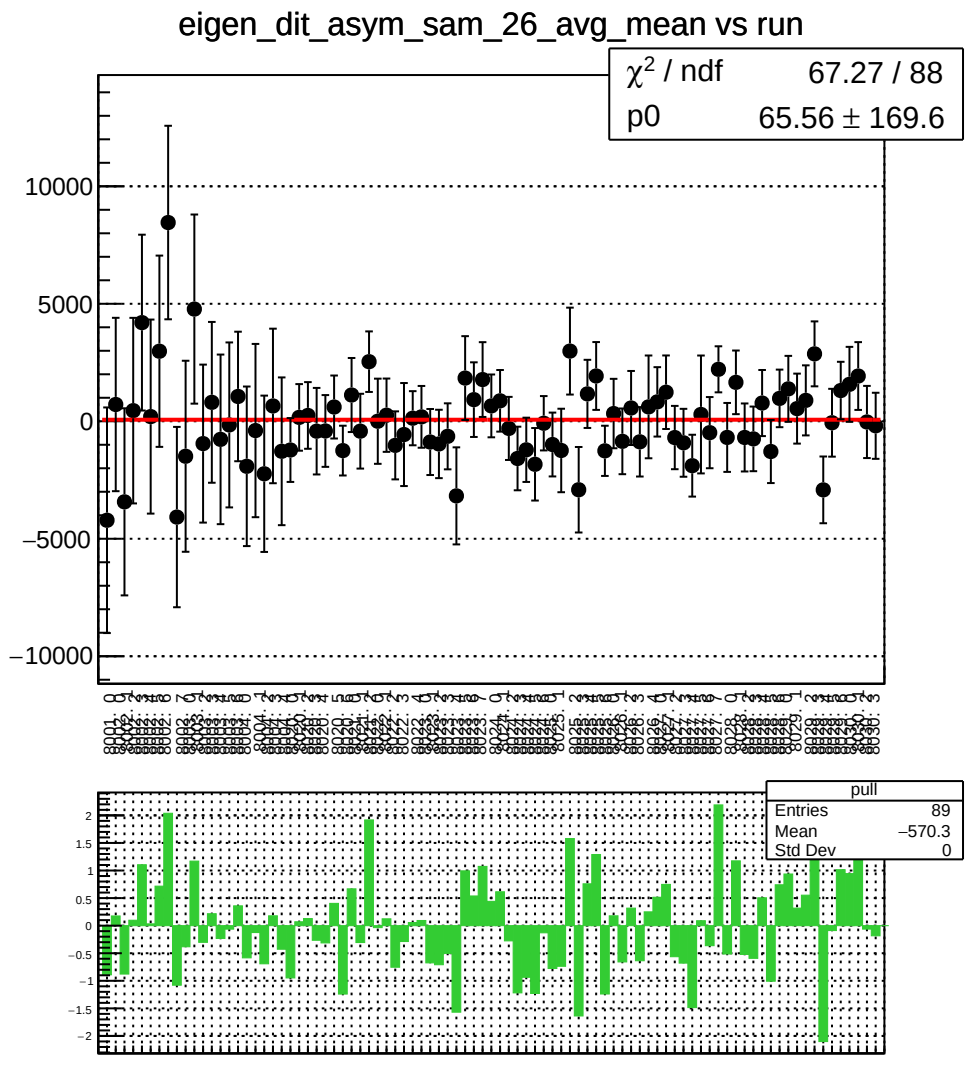

pull1D
Entries 89
Mean −0.002957
Std Dev 0.8694
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

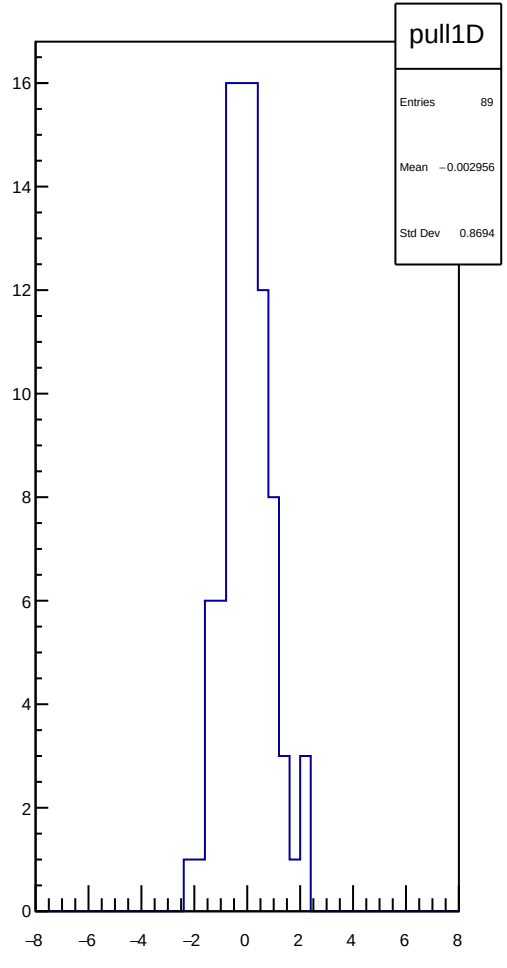

dit_asym_sam_26_avg_rms vs run
χ² / ndf 1.607e+05 / 88
p0 150.5 ± 0.1199
400
350
300
250
200
150
100

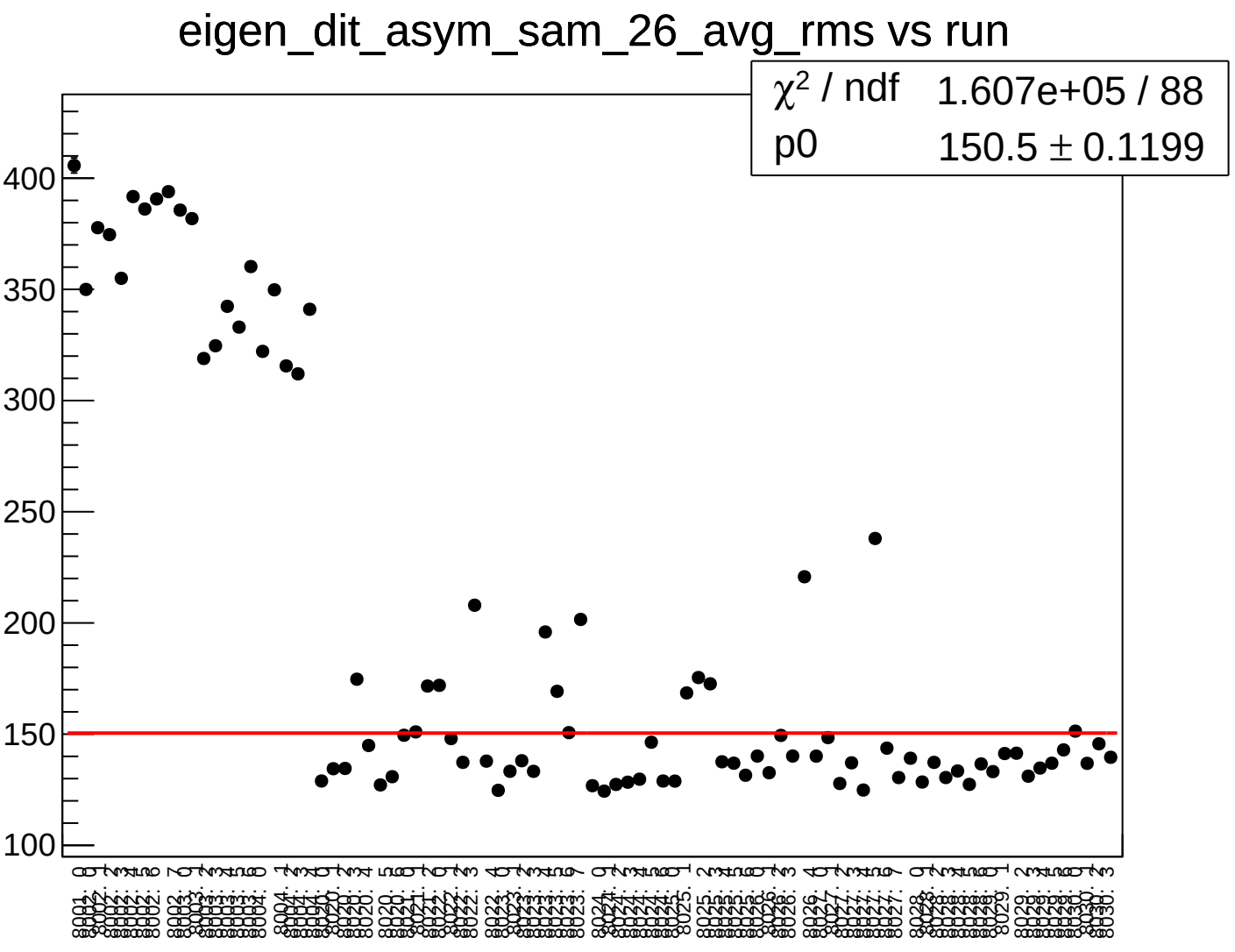

asym_sam_26_avg_dit_correction_mean vs run
χ² / ndf 86.99 / 88
p0 275.9 ± 1260
80000
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 159.3
Std Dev 0
3
2
1
0
−1
−2

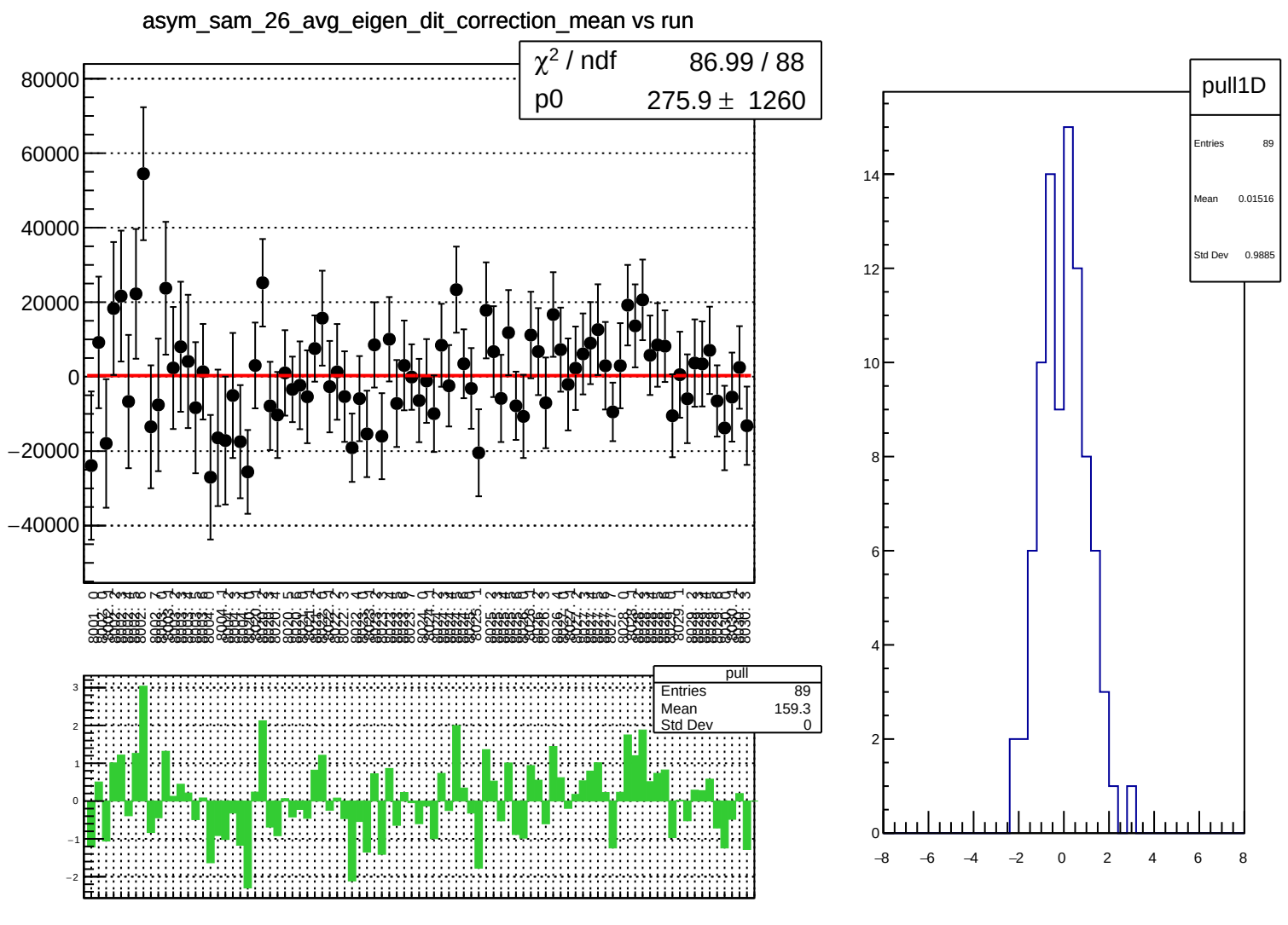

pull1D
Entries 89
Mean 0.01516
Std Dev 0.9885
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

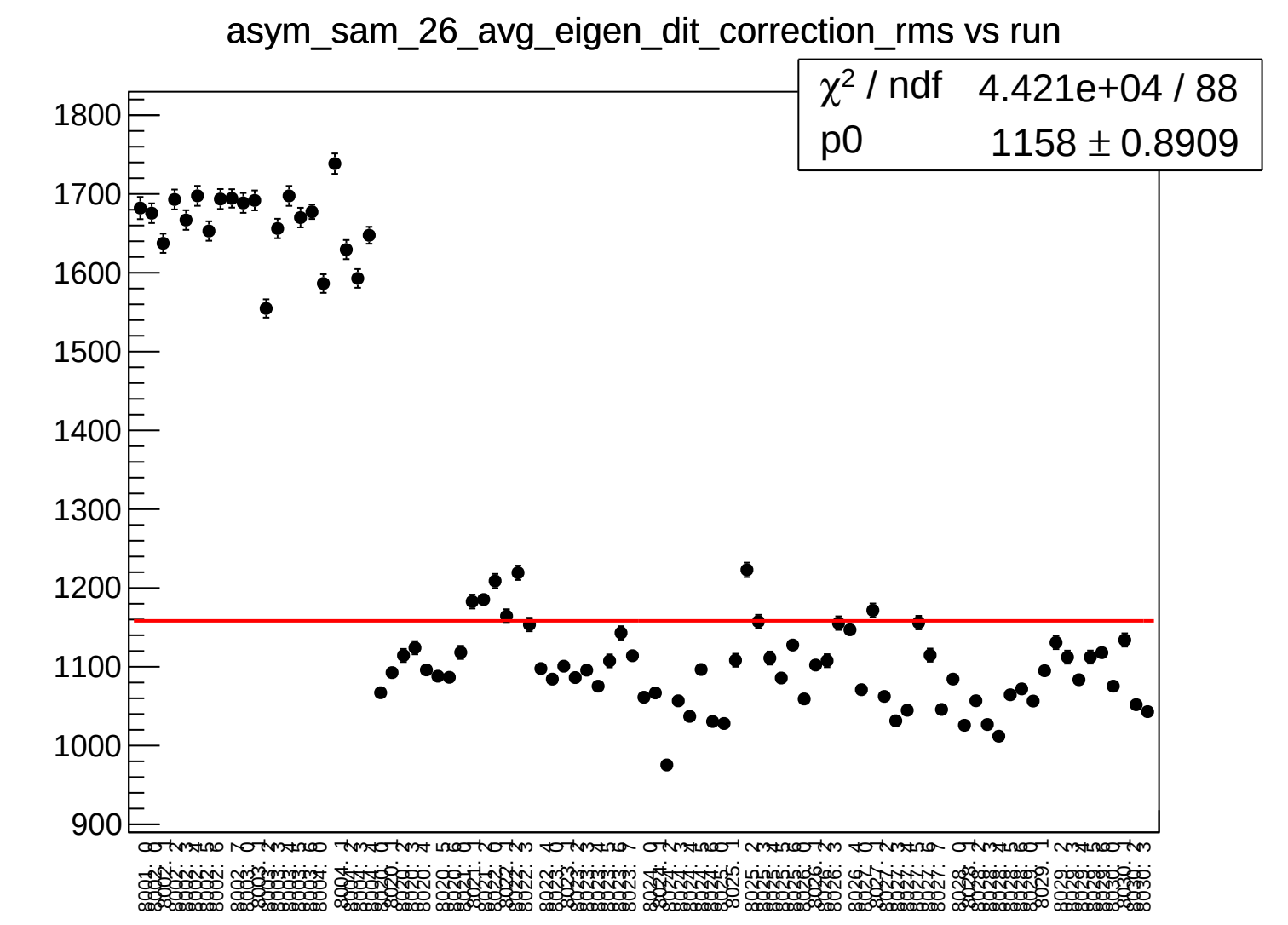

asym_sam_26_avg_dit_correction_rms vs run
χ² / ndf 4.421e+04 / 88
p0 1158 ± 0.8909
1800
1700
1600
1500
1400
1300
1200
1100
1000
900

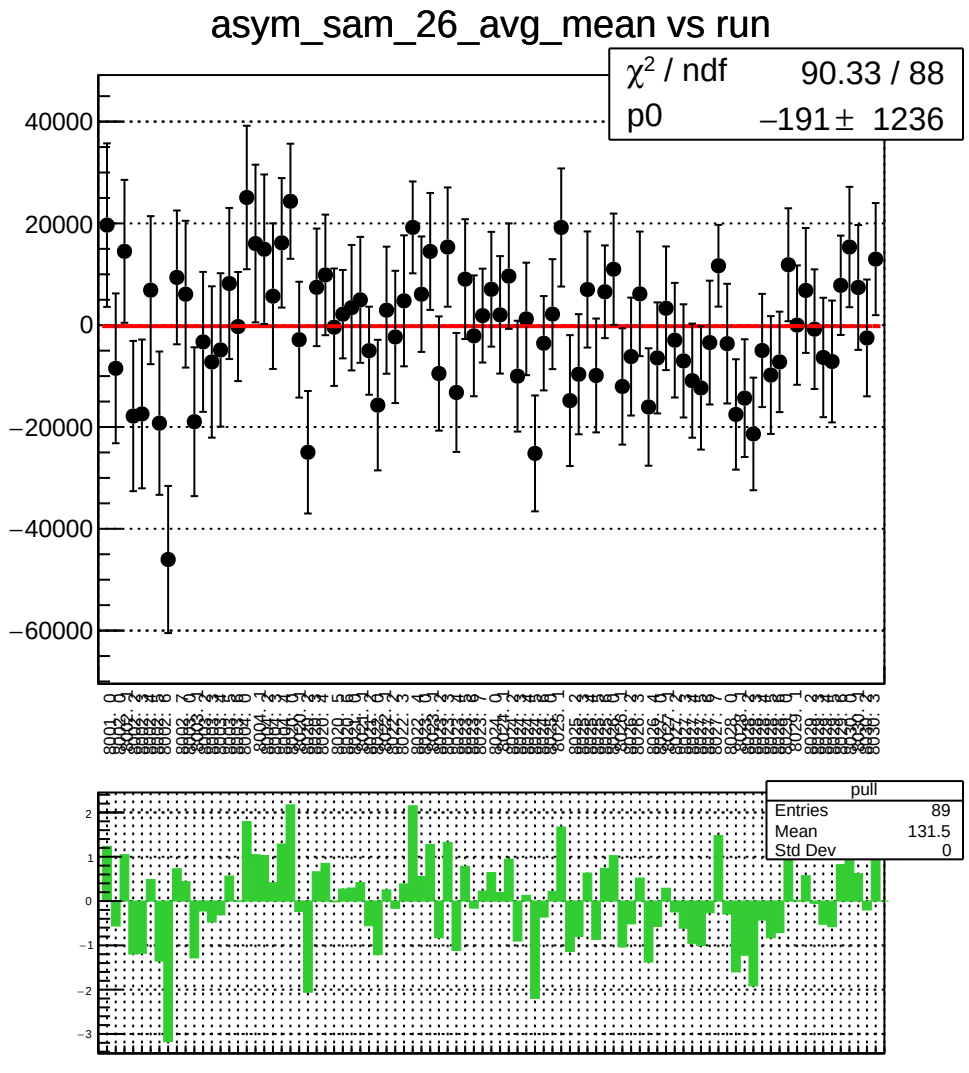

eigen_dit_asym_sam_26_avg_mean vs run
χ^2 / ndf 67.27 / 88
p0 65.56 ± 169.6
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −570.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

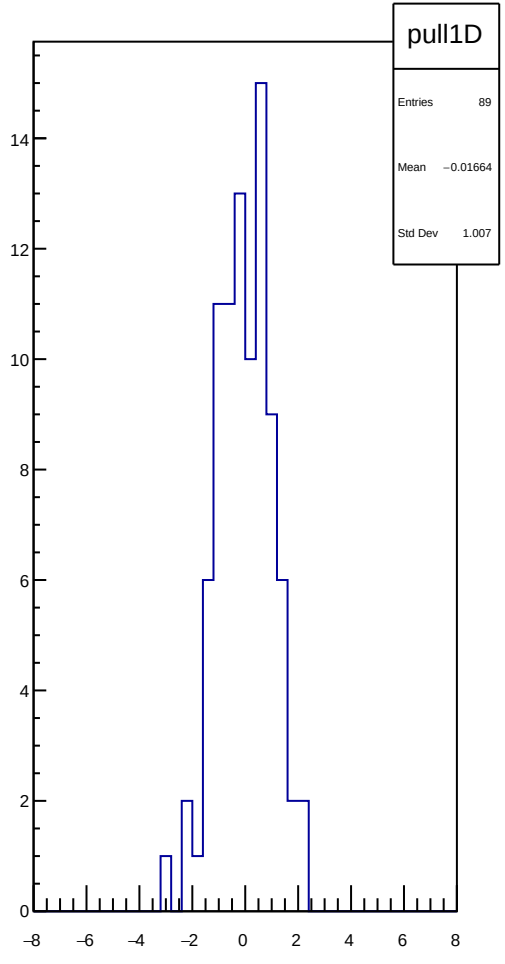

pull1D
Entries 89
Mean −0.002956
Std Dev 0.8694
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

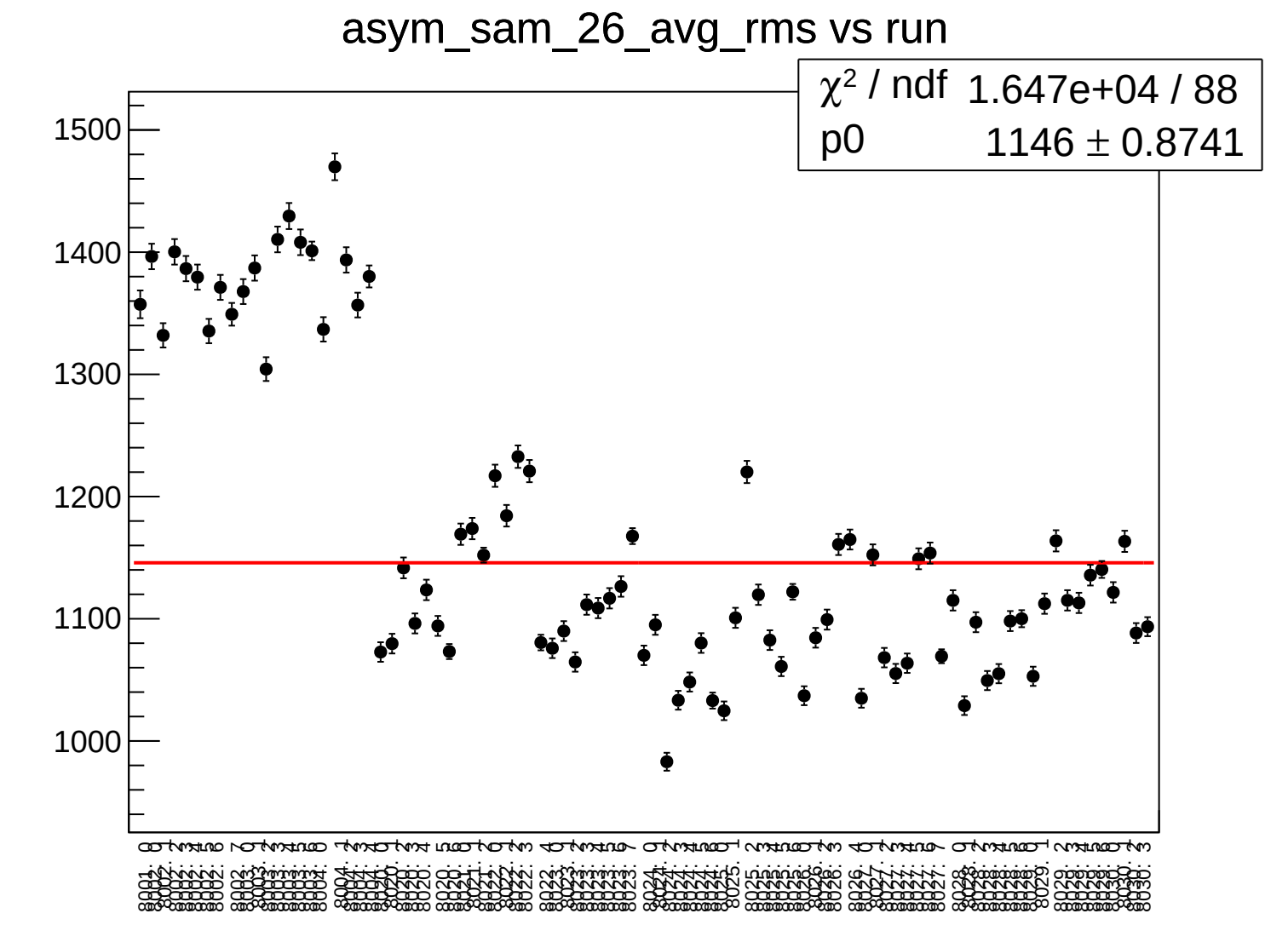

eigen_dit_asym_sam_26_avg_rms vs run
χ² / ndf 1.607e+05 / 88
p0 150.5 ± 0.1199
400
350
300
250
200
150
100

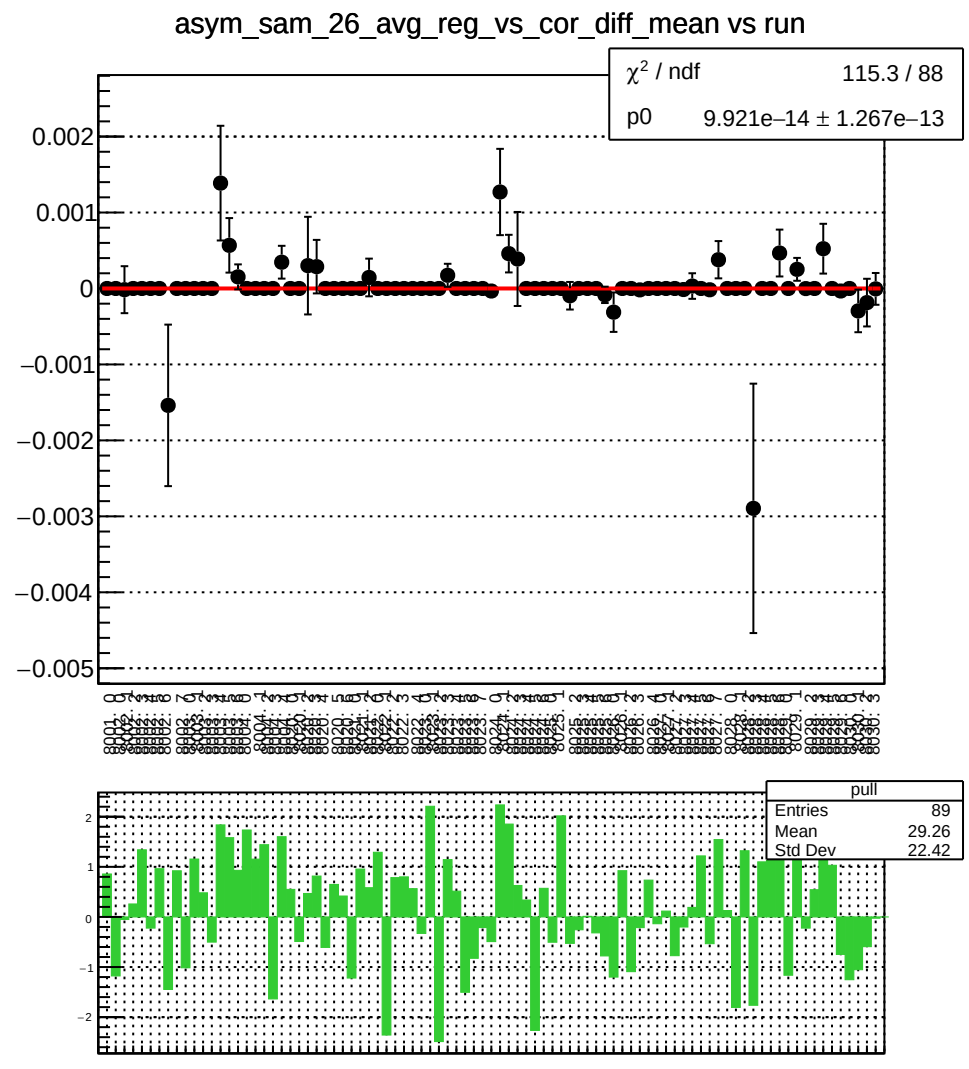

asym_sam_26_avg_eigen_dit_correction_mean vs run
χ² / ndf 86.99 / 88
p0 275.9 ± 1260
80000
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 159.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.01516
Std Dev 0.9885
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

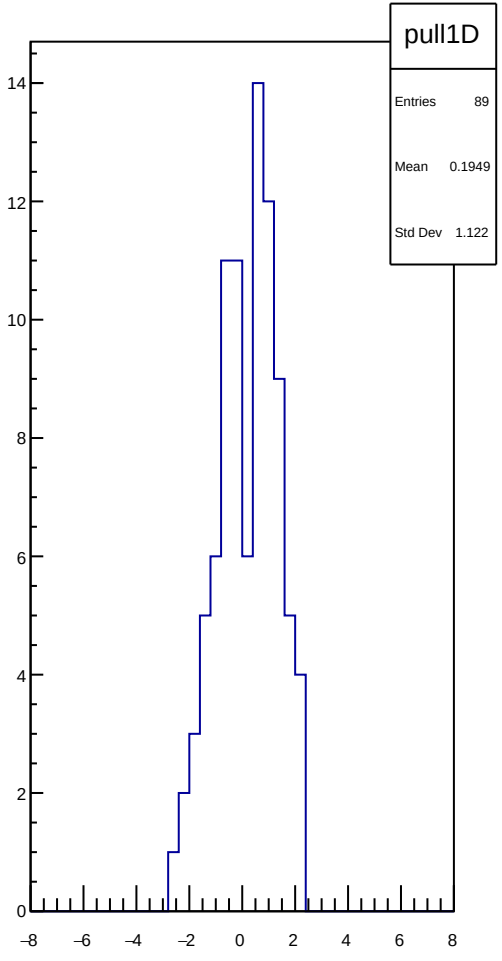

asym_sam_26_avg_eigen_dit_correction_rms vs run
χ² / ndf 4.421e+04 / 88
p0 1158 ± 0.8909
1800
1700
1600
1500
1400
1300
1200
1100
1000
900

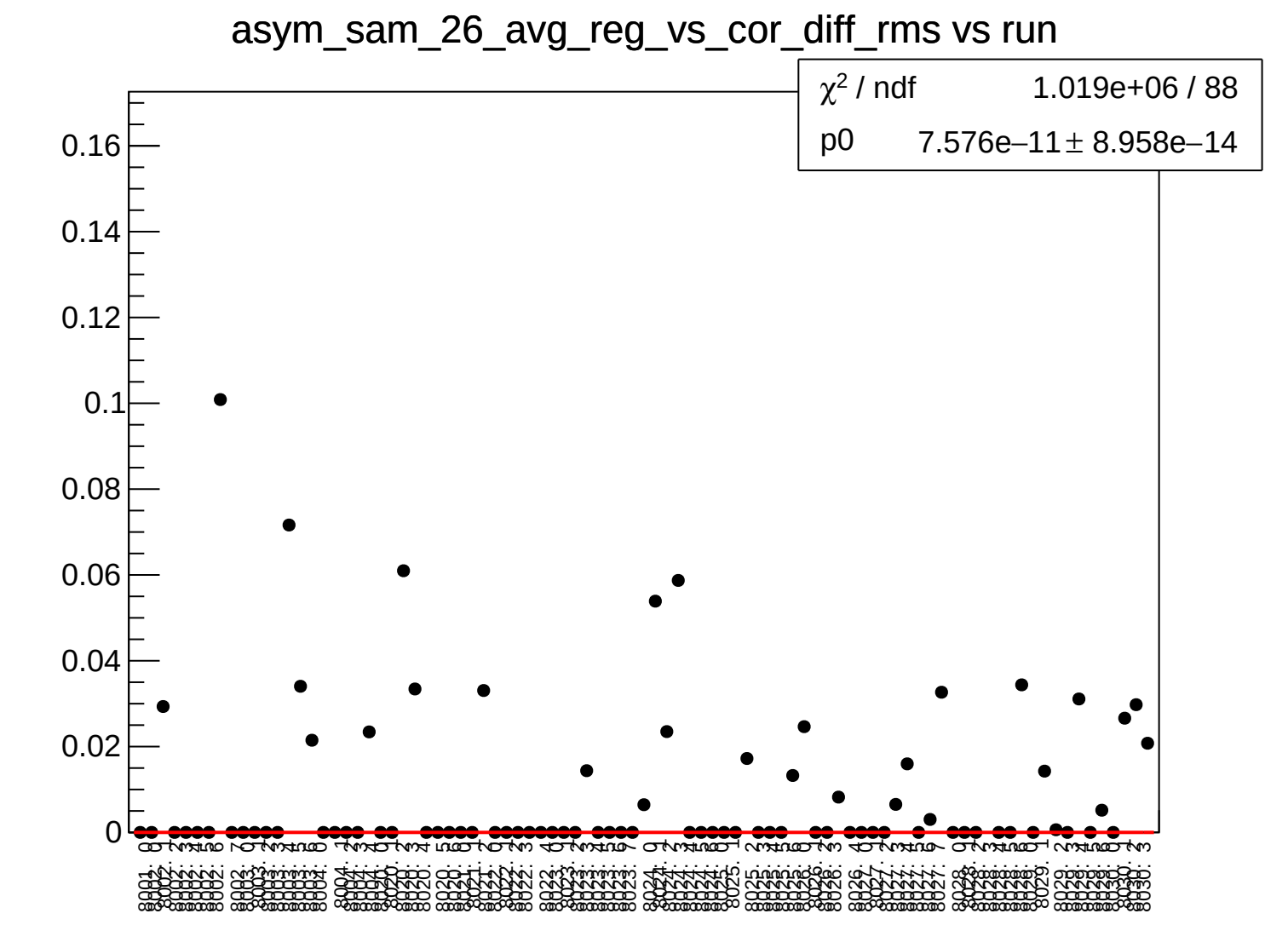

asym_sam_26_avg_mean vs run
χ² / ndf 90.33 / 88
p0 −191 ± 1236
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 131.5
Std Dev 0
2
1
0
−1
−2
−3

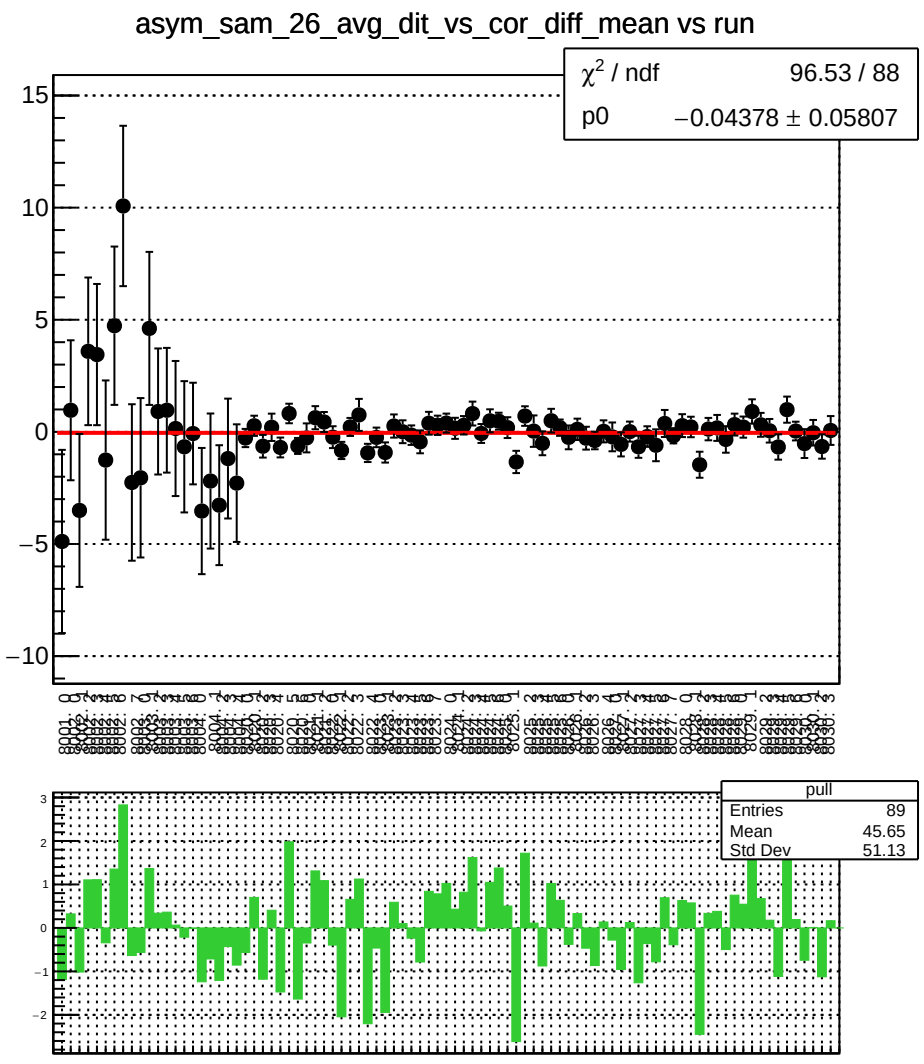

pull1D
Entries 89
Mean −0.01664
Std Dev 1.007
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

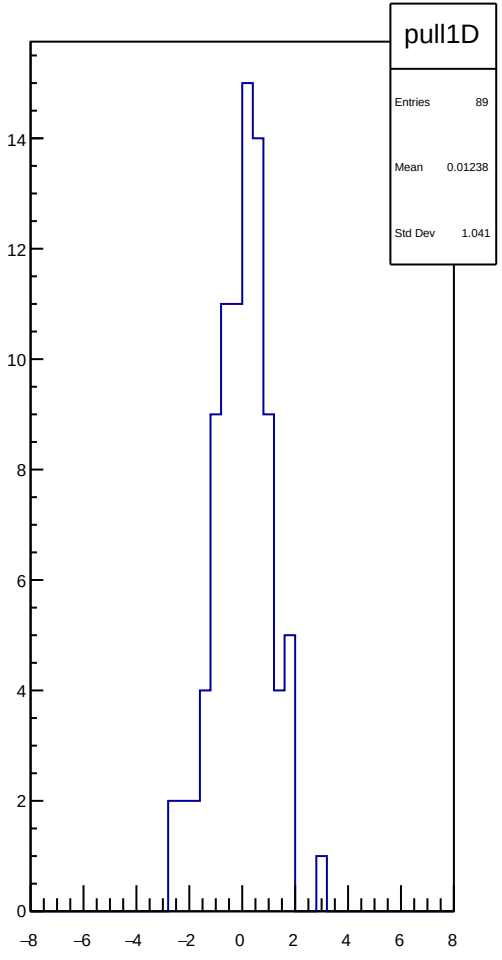

asym_sam_26_avg_rms vs run
χ² / ndf 1.647e+04 / 88
p0 1146 ± 0.8741
1500
1400
1300
1200
1100
1000

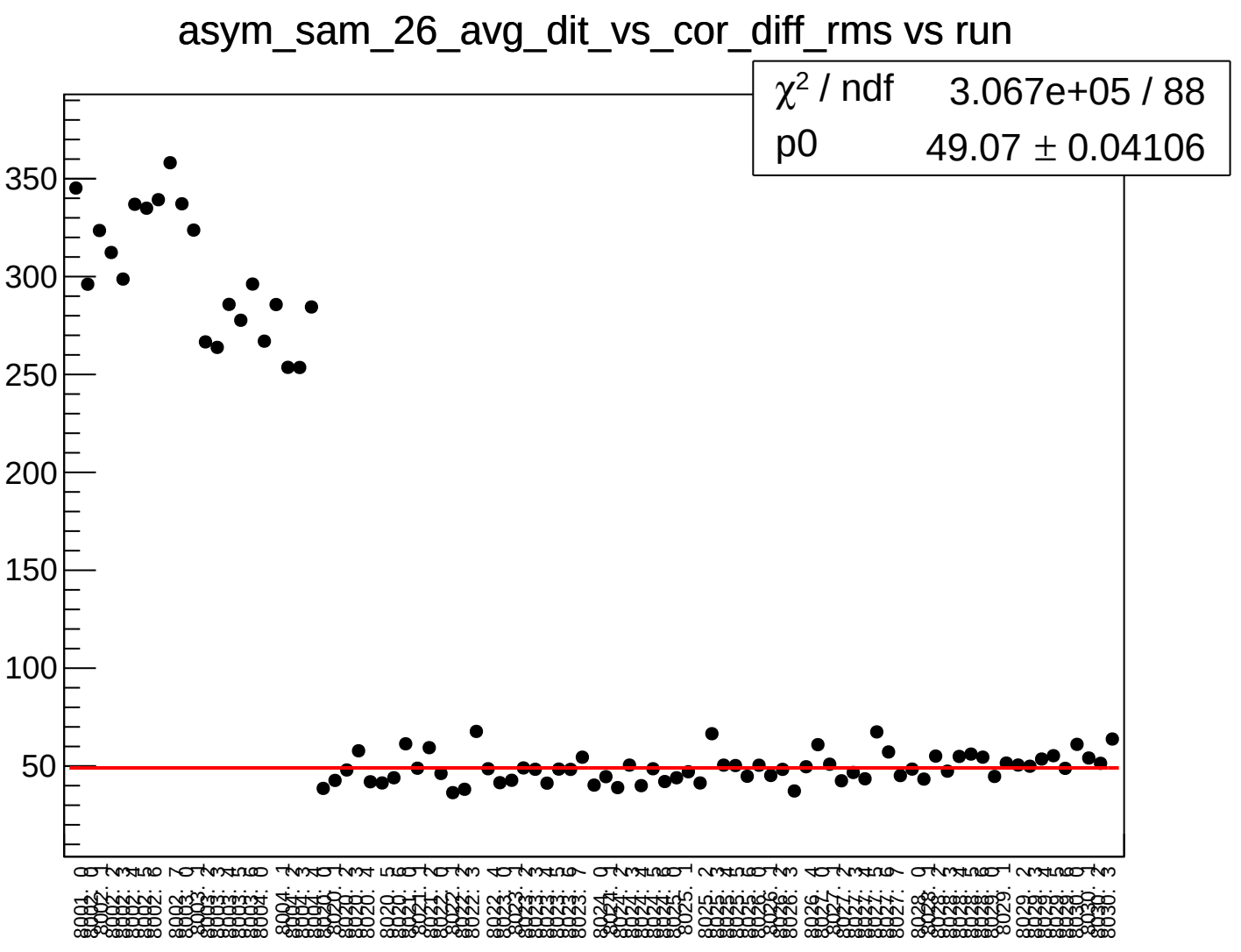

asym_sam_26_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 115.3 / 88
p0 9.921e−14 ± 1.267e−13
0.002
0.001
0
−0.001
−0.002
−0.003
−0.004
−0.005
pull
Entries 89
Mean 29.26
Std Dev 22.42
2
1
0
−1
−2

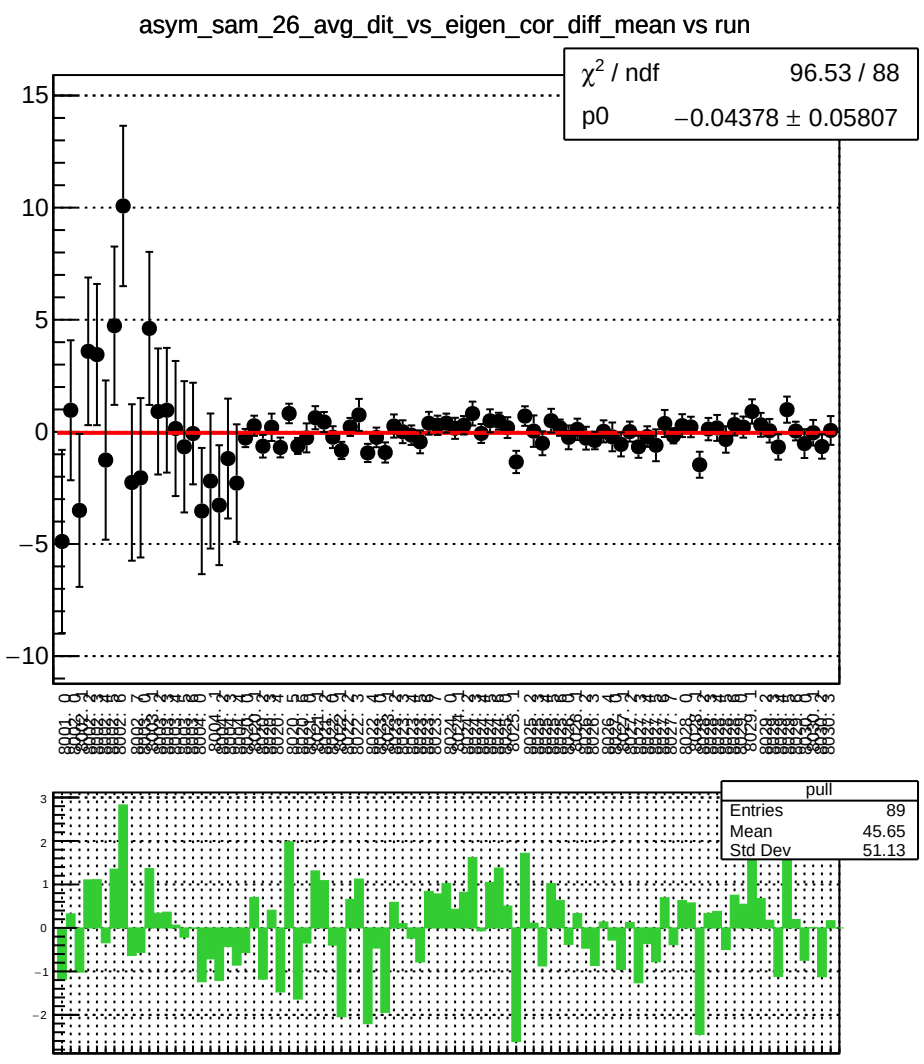

pull1D
Entries 89
Mean 0.1949
Std Dev 1.122
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

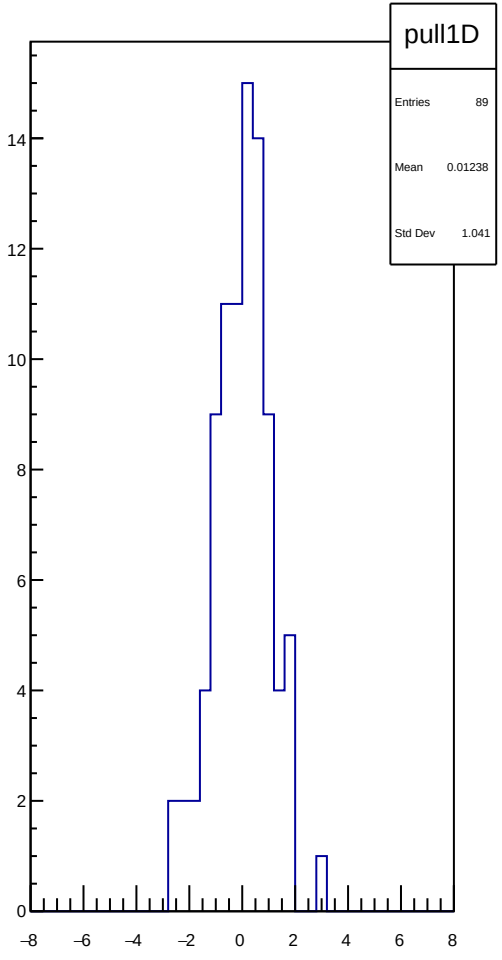

asym_sam_26_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.019e+06 / 88
p0 7.576e−11 ± 8.958e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

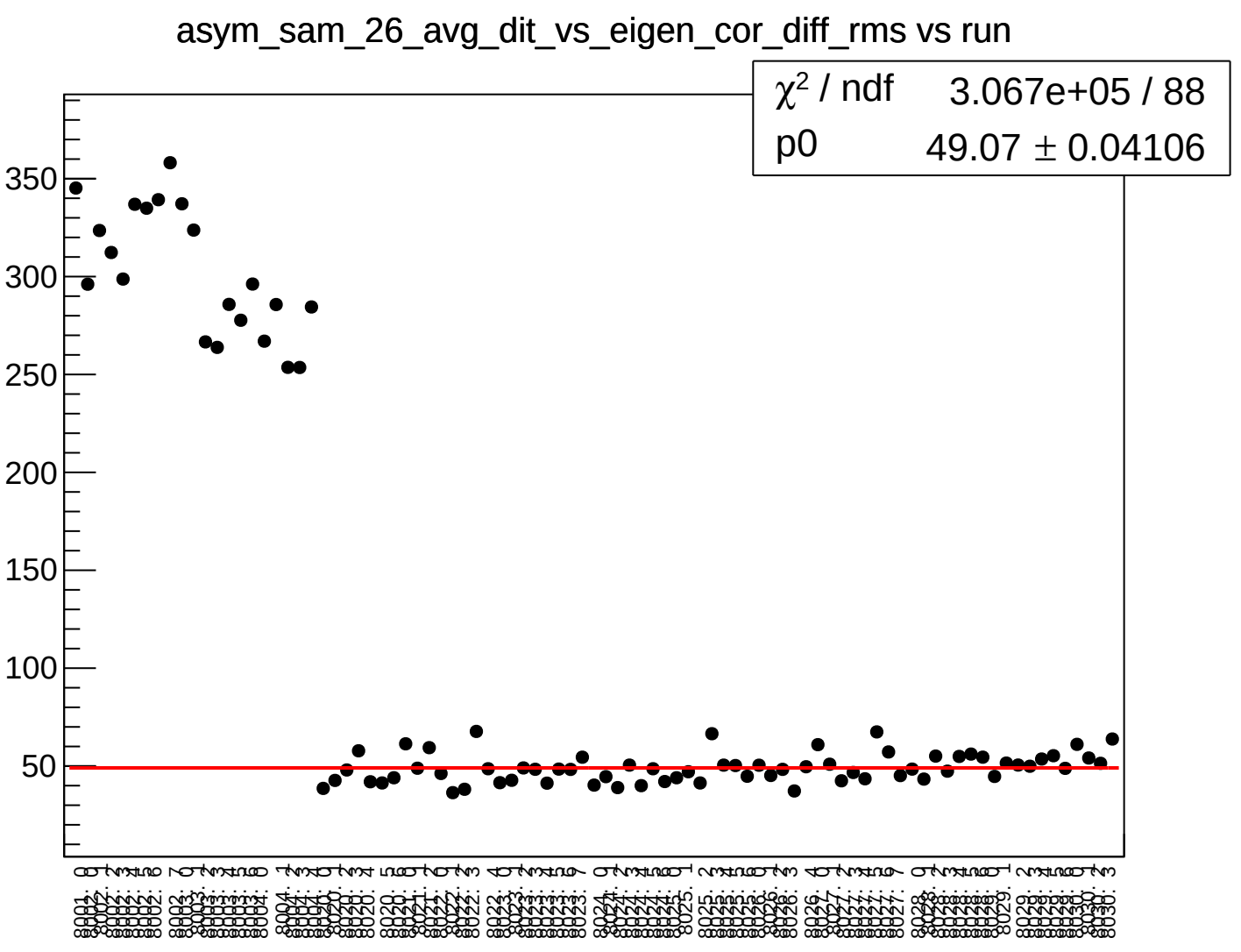

asym_sam_26_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 96.53 / 88
p0 −0.04378 ± 0.05807
pull
Entries 89
Mean 45.65
Std Dev 51.13

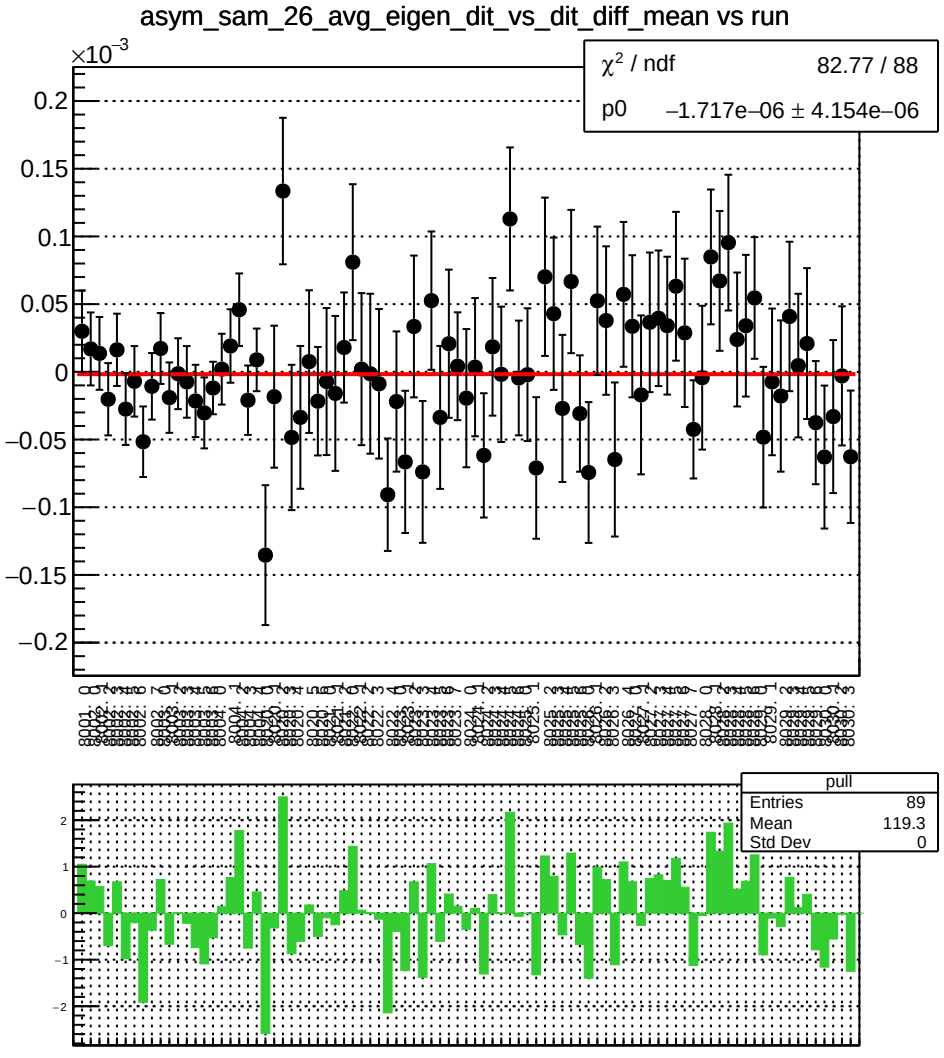

pull1D
Entries 89
Mean 0.01238
Std Dev 1.041

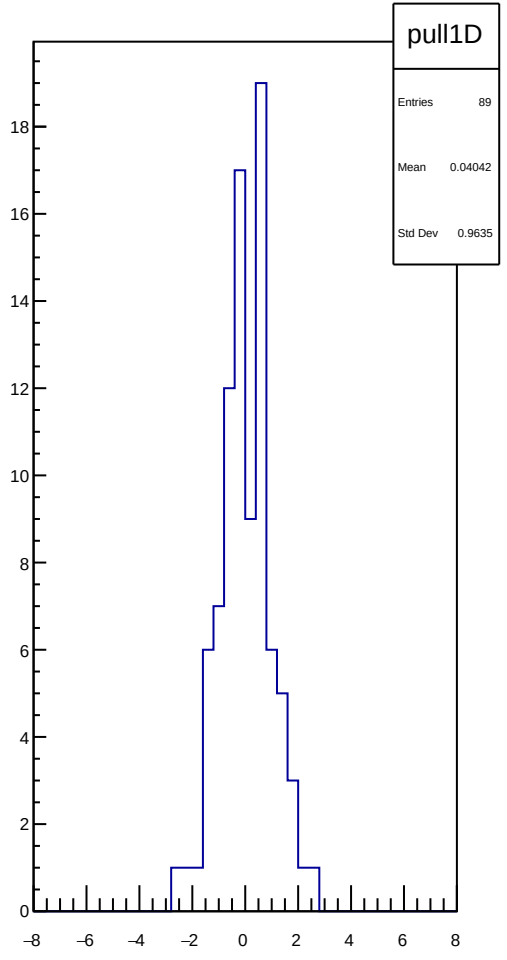

asym_sam_26_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.067e+05 / 88
p0 49.07 ± 0.04106
350
300
250
200
150
100
50

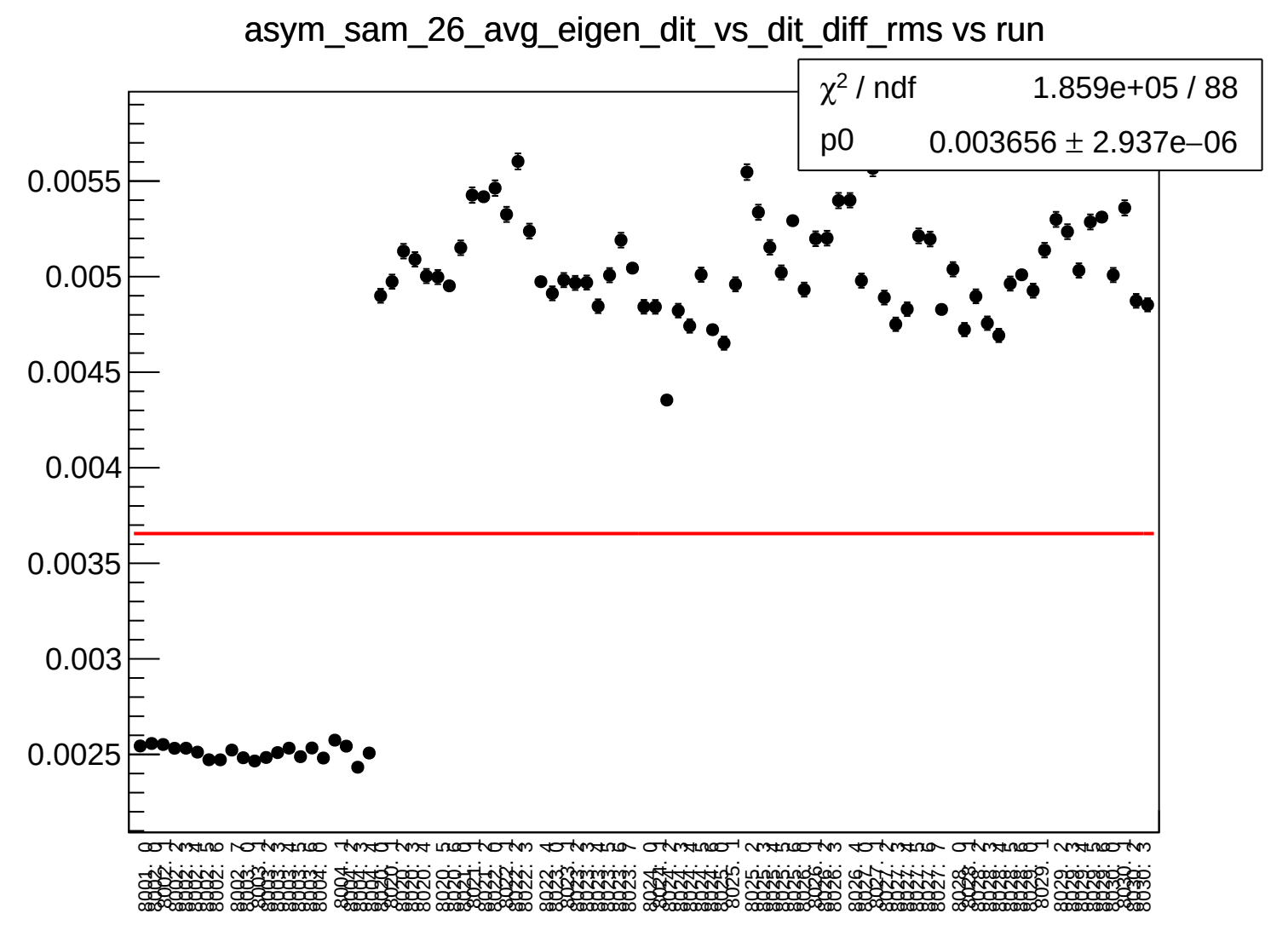

asym_sam_26_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.53 / 88
p0 −0.04378 ± 0.05807
pull
Entries 89
Mean 45.65
Std Dev 51.13

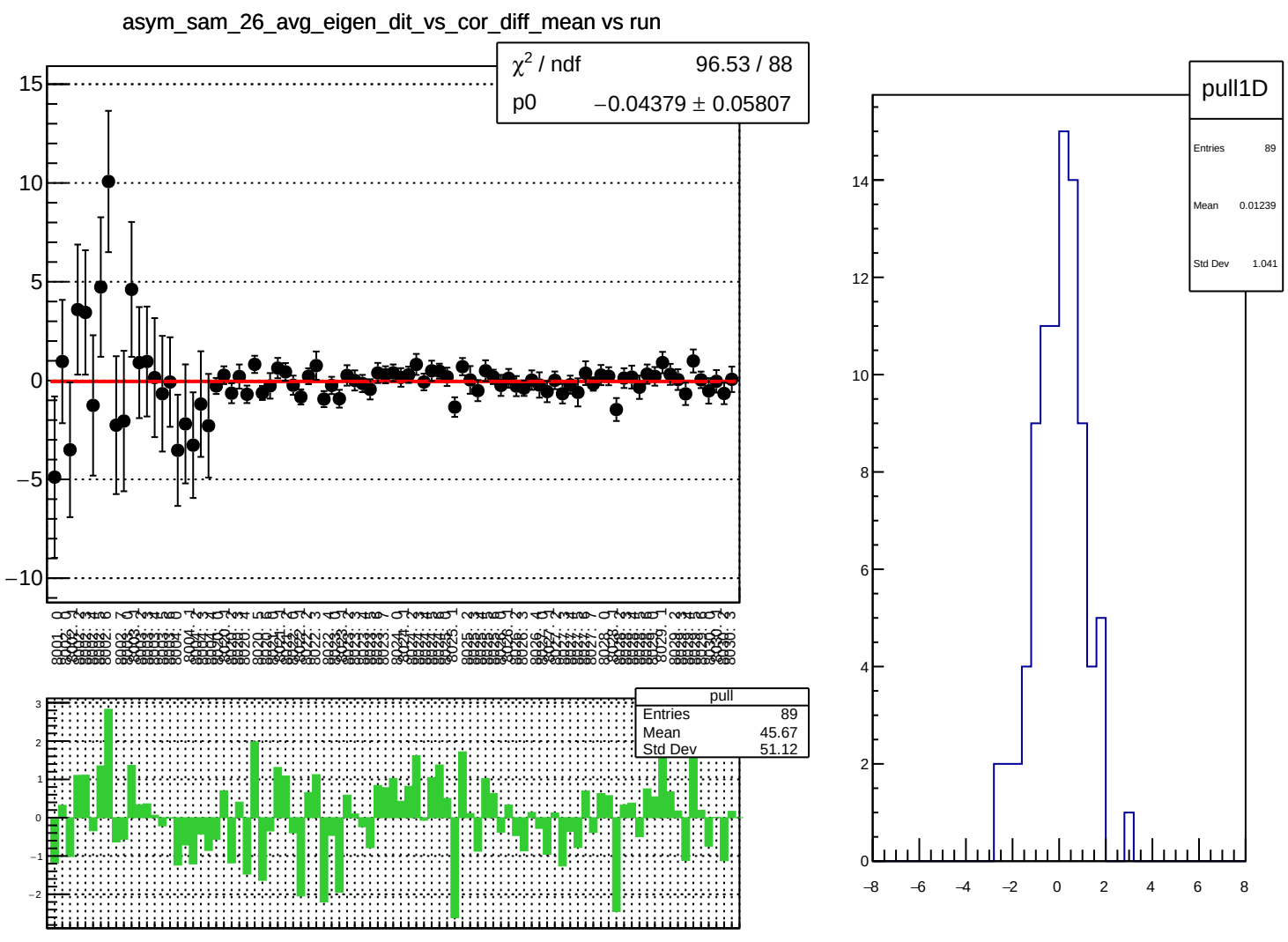

pull1D
Entries 89
Mean 0.01238
Std Dev 1.041

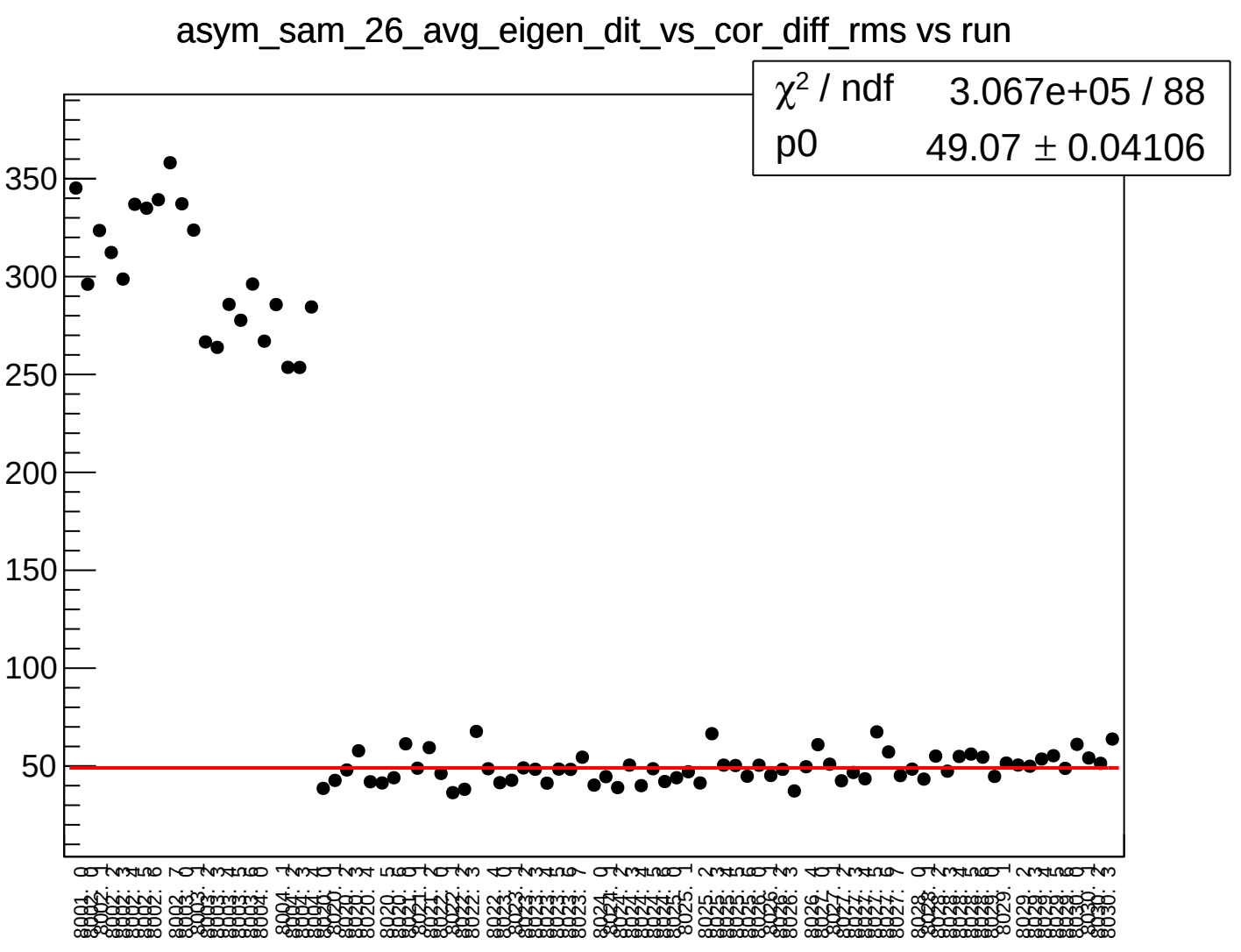

asym_sam_26_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.067e+05 / 88
p0 49.07 ± 0.04106
350
300
250
200
150
100
50

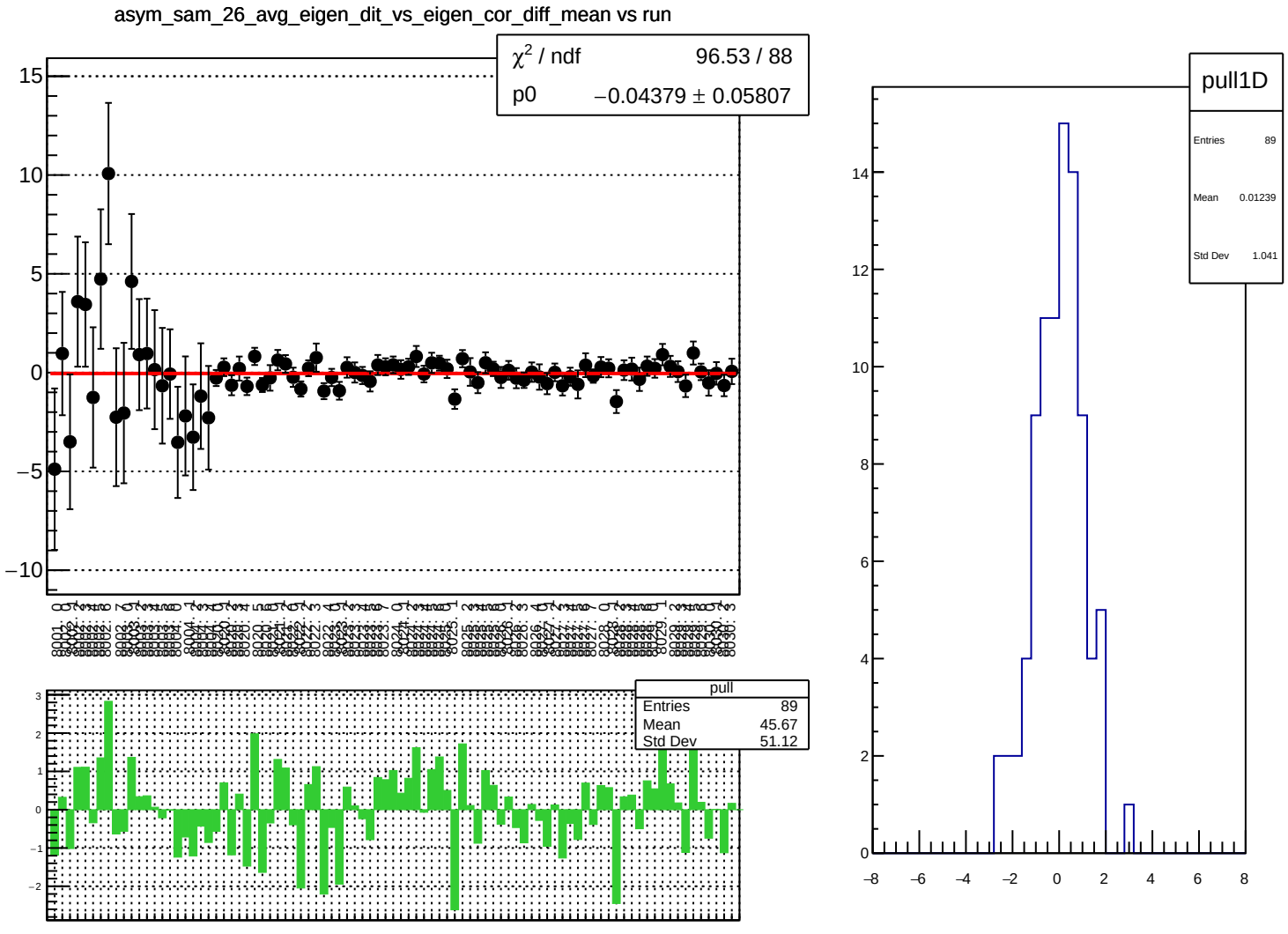

asym_sam_26_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 82.77 / 88
p0 −1.717e−06 ± 4.154e−06
pull
Entries 89
Mean 119.3
Std Dev 0

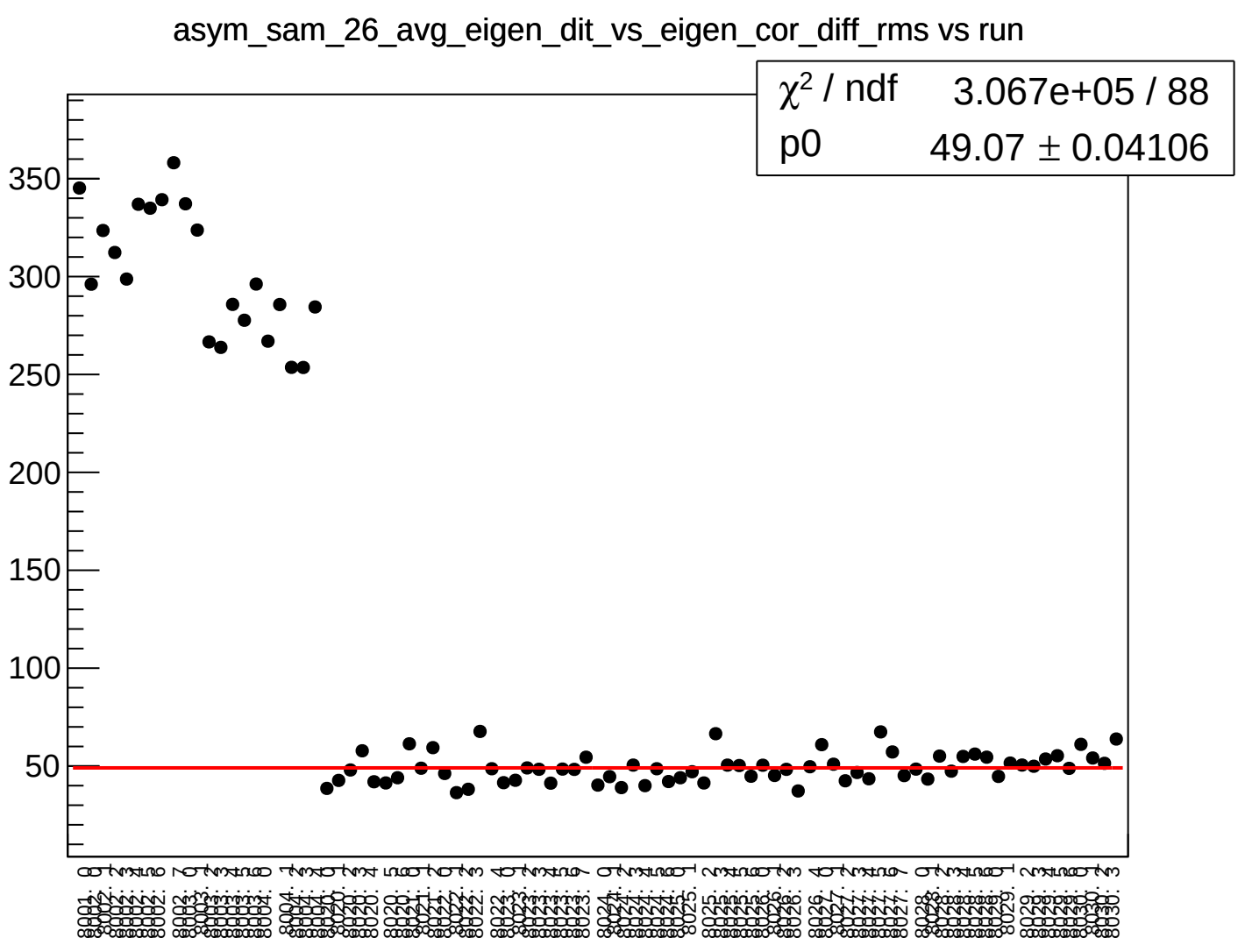

pull1D
Entries 89
Mean 0.04042
Std Dev 0.9635

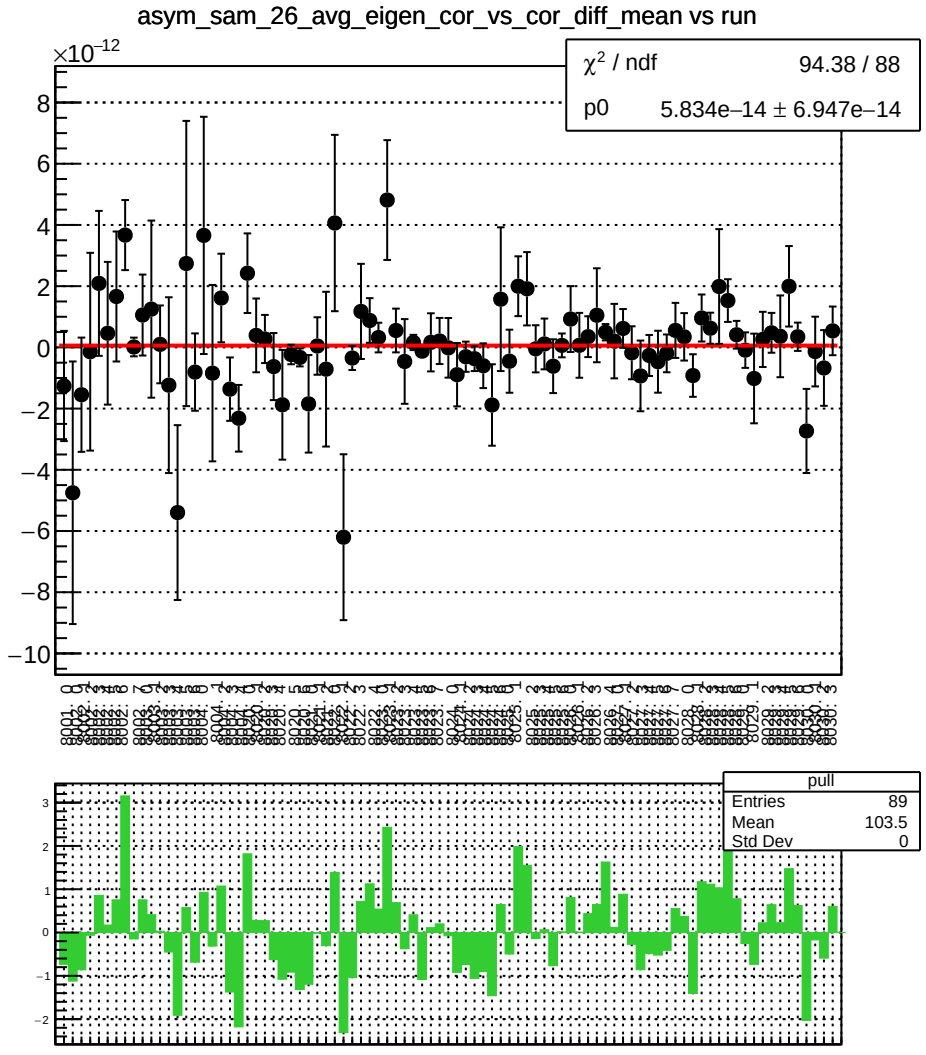

asym_sam_26_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.859e+05 / 88
p0 0.003656 ± 2.937e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025

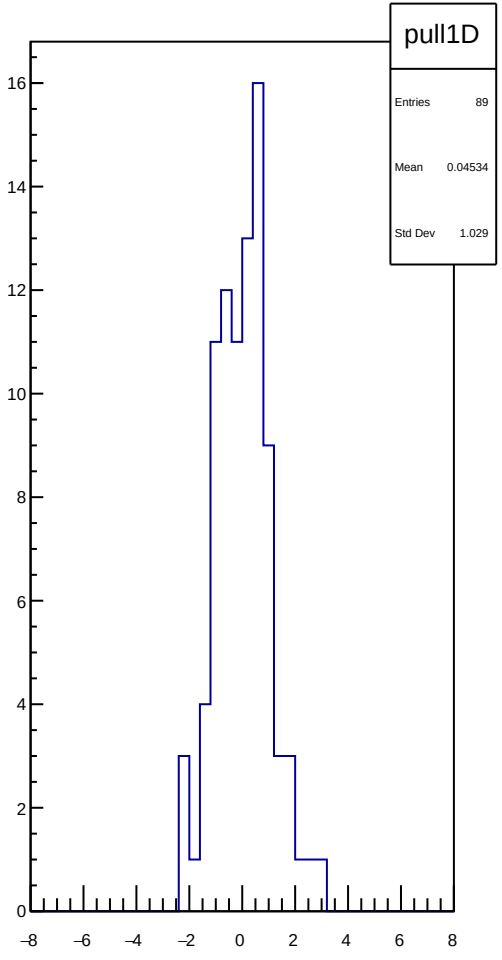

asym_sam_26_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 96.53 / 88
p0 −0.04379 ± 0.05807
pull
Entries 89
Mean 45.67
Std Dev 51.12
pull1D
Entries 89
Mean 0.01239
Std Dev 1.041

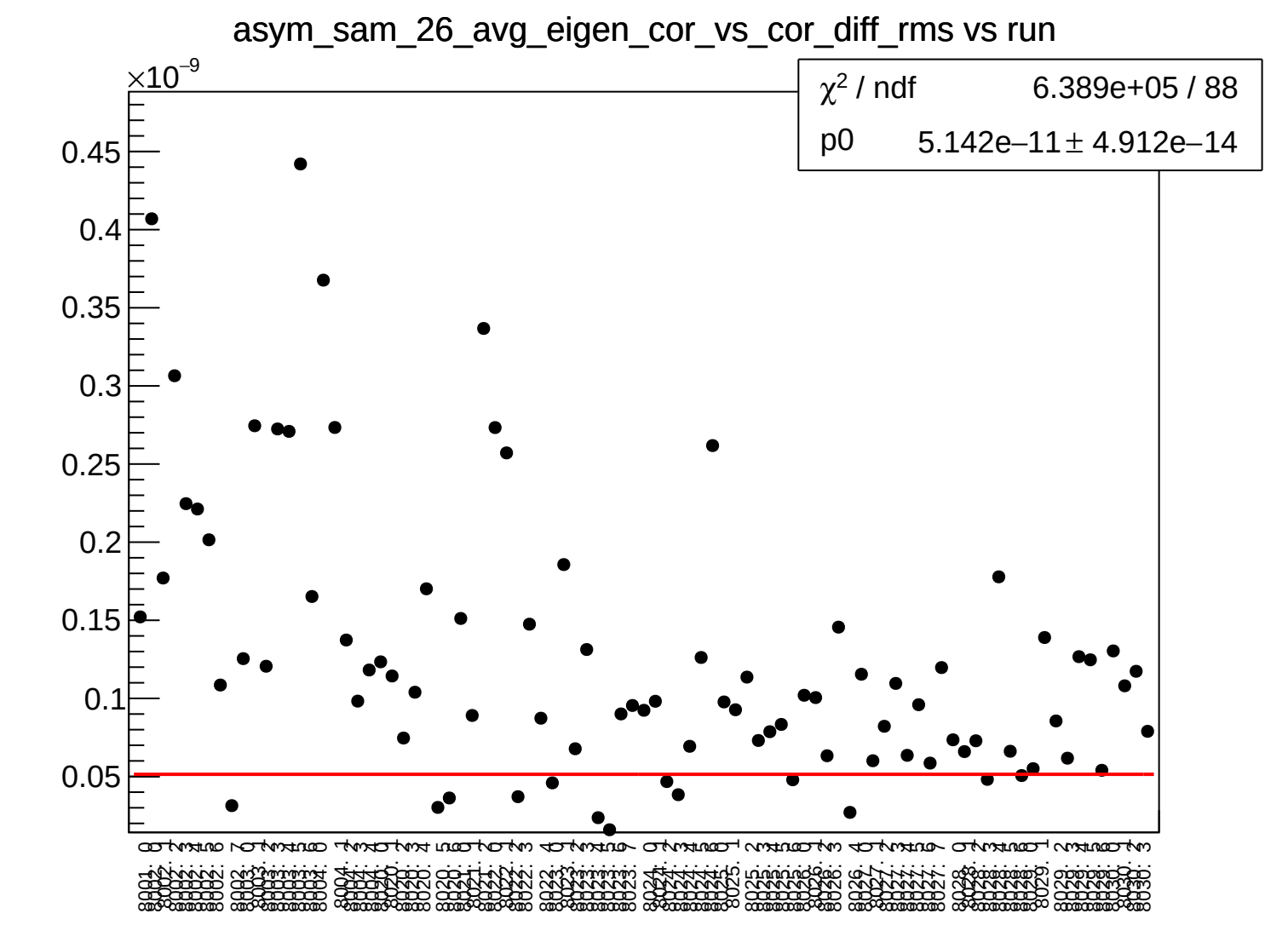

asym_sam_26_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.067e+05 / 88
p0 49.07 ± 0.04106
350
300
250
200
150
100
50

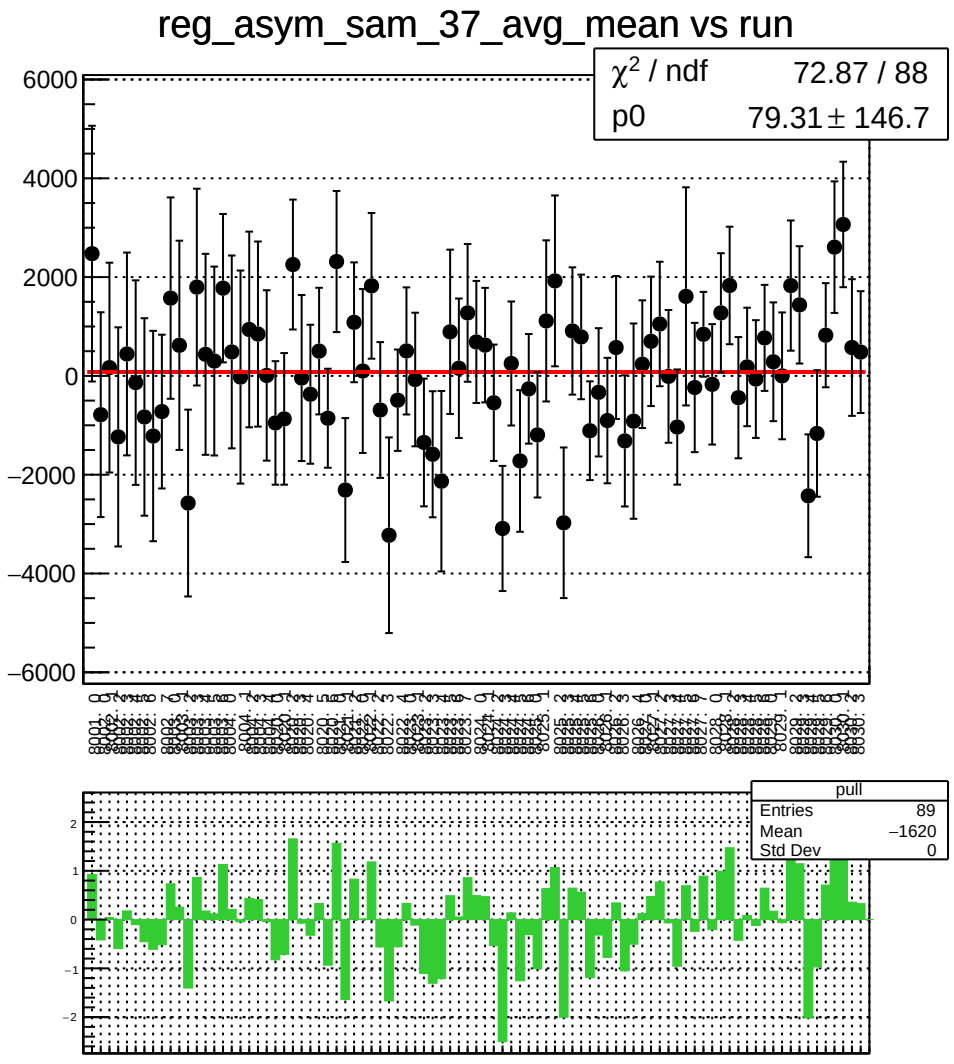

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.53 / 88
p0 −0.04379 ± 0.05807
pull
Entries 89
Mean 45.67
Std Dev 51.12
pull1D
Entries 89
Mean 0.01239
Std Dev 1.041

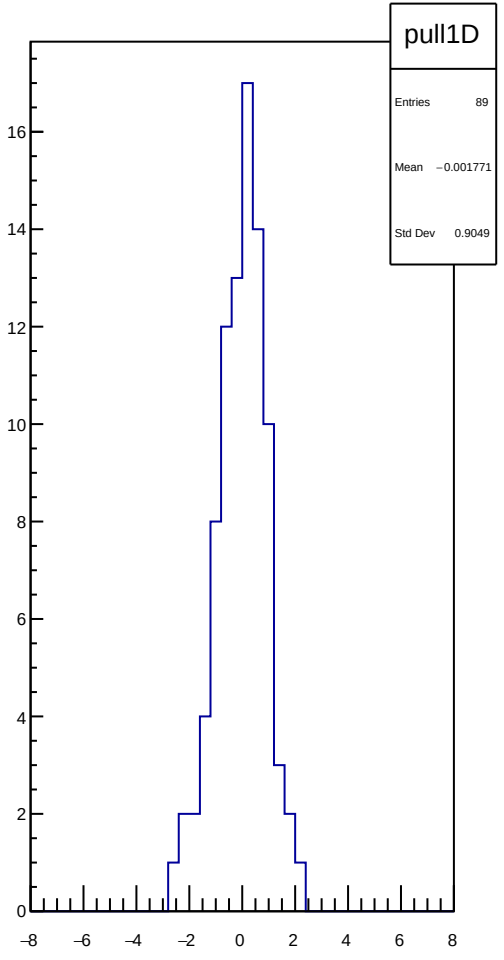

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.067e+05 / 88
p0 49.07 ± 0.04106
350
300
250
200
150
100
50

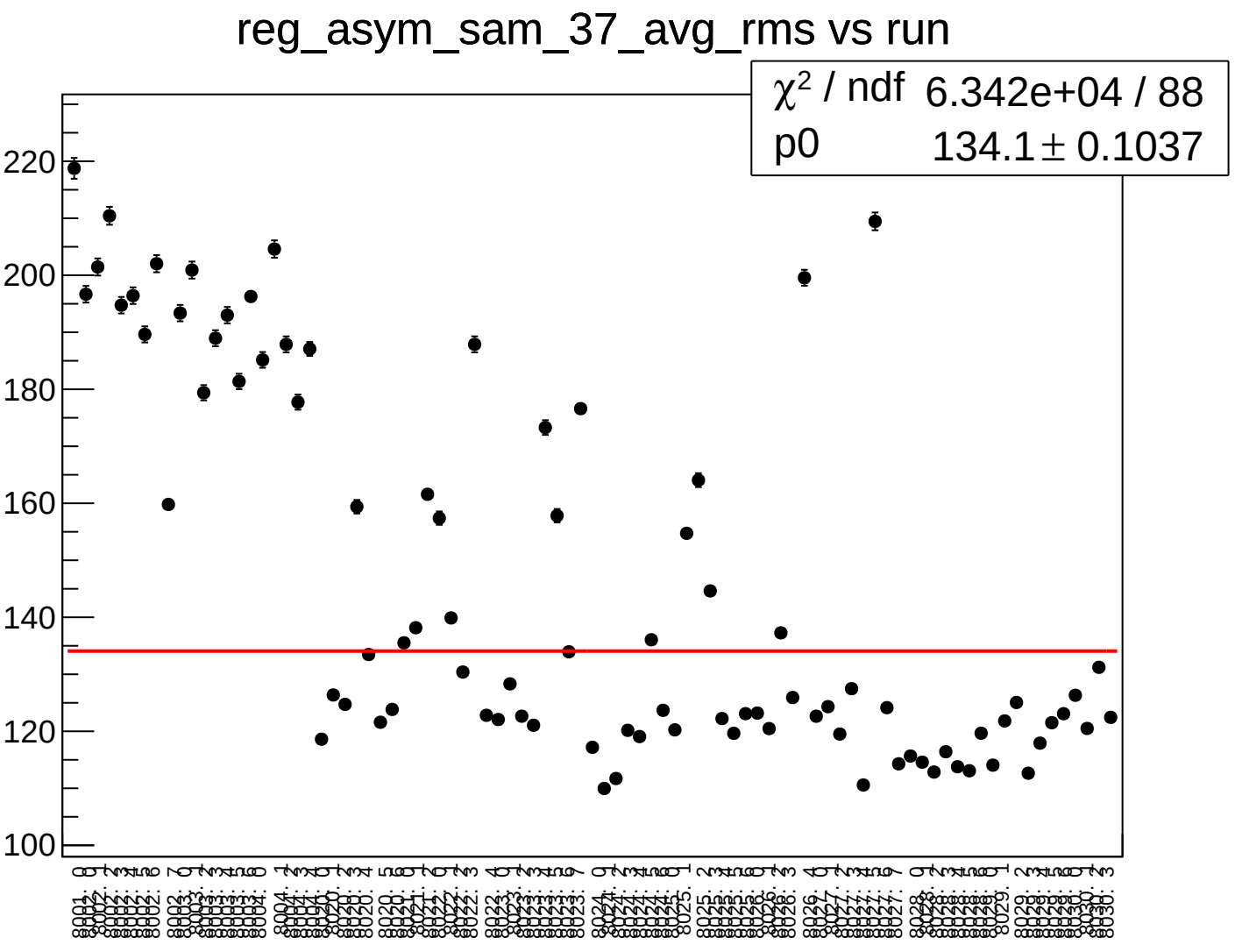

asym_sam_26_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.38 / 88
p0 5.834e−14 ± 6.947e−14
pull
Entries 89
Mean 103.5
Std Dev 0

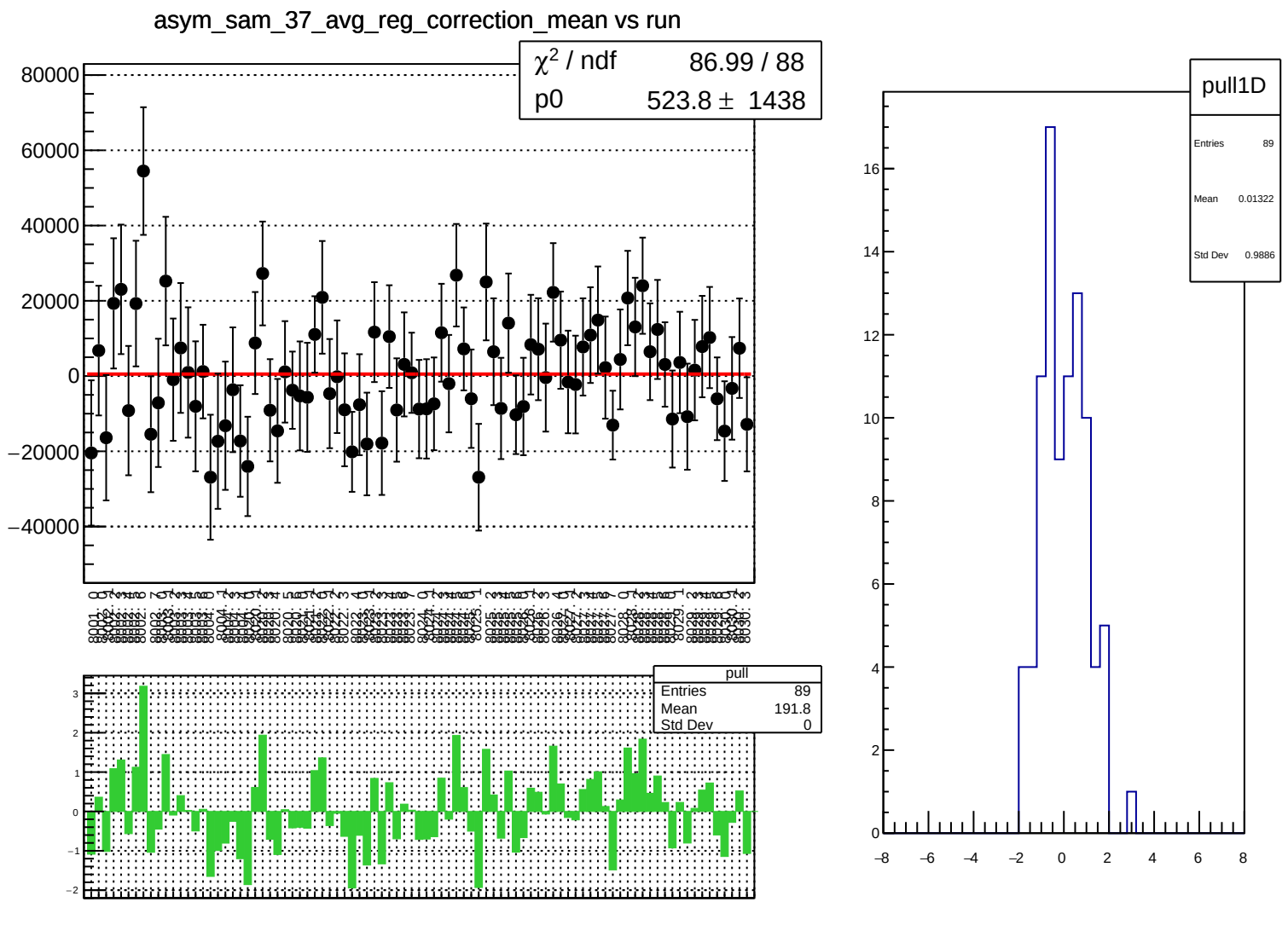

pull1D
Entries 89
Mean 0.04534
Std Dev 1.029

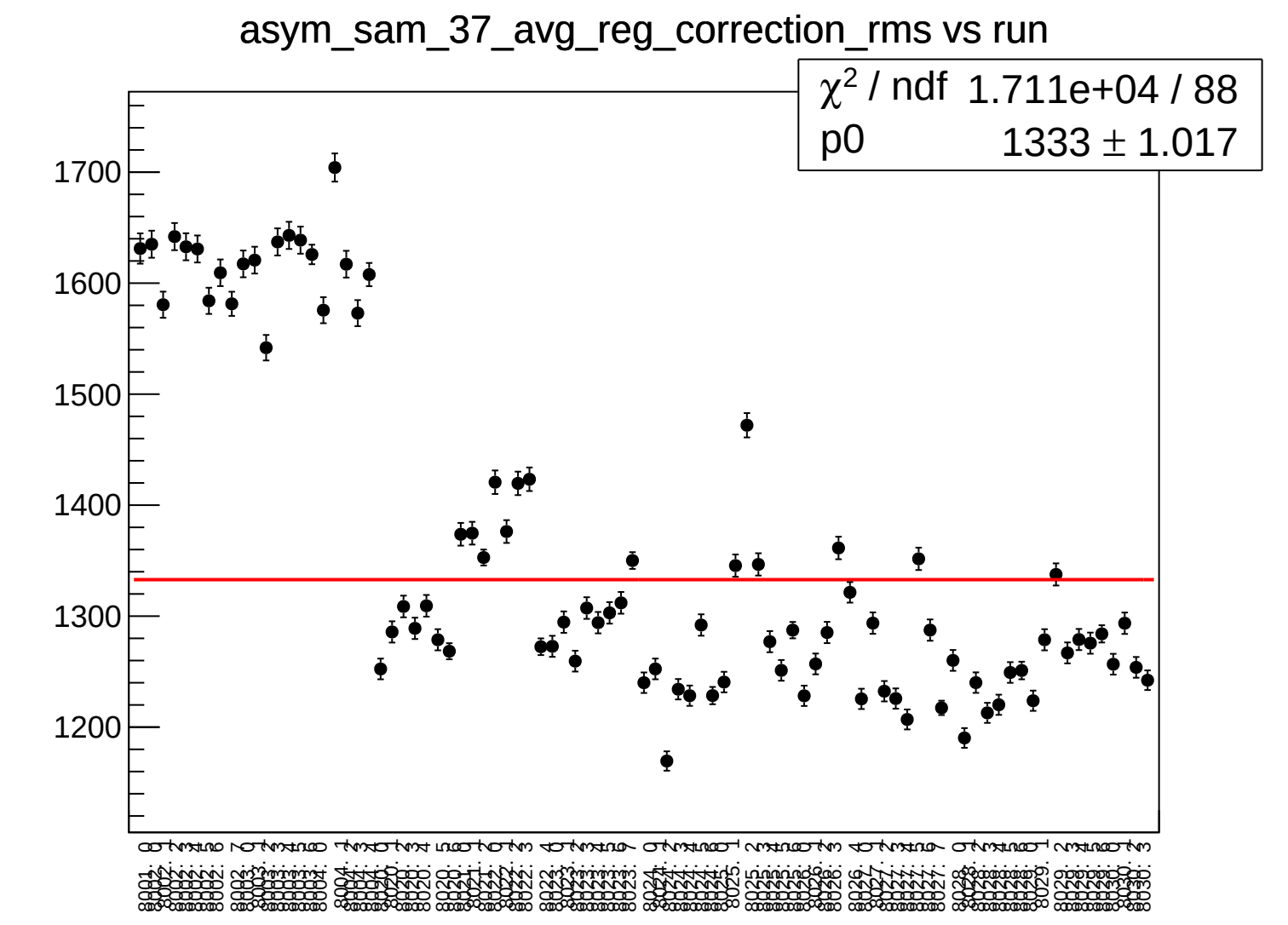

asym_sam_26_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.389e+05 / 88
p0 5.142e−11 ± 4.912e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

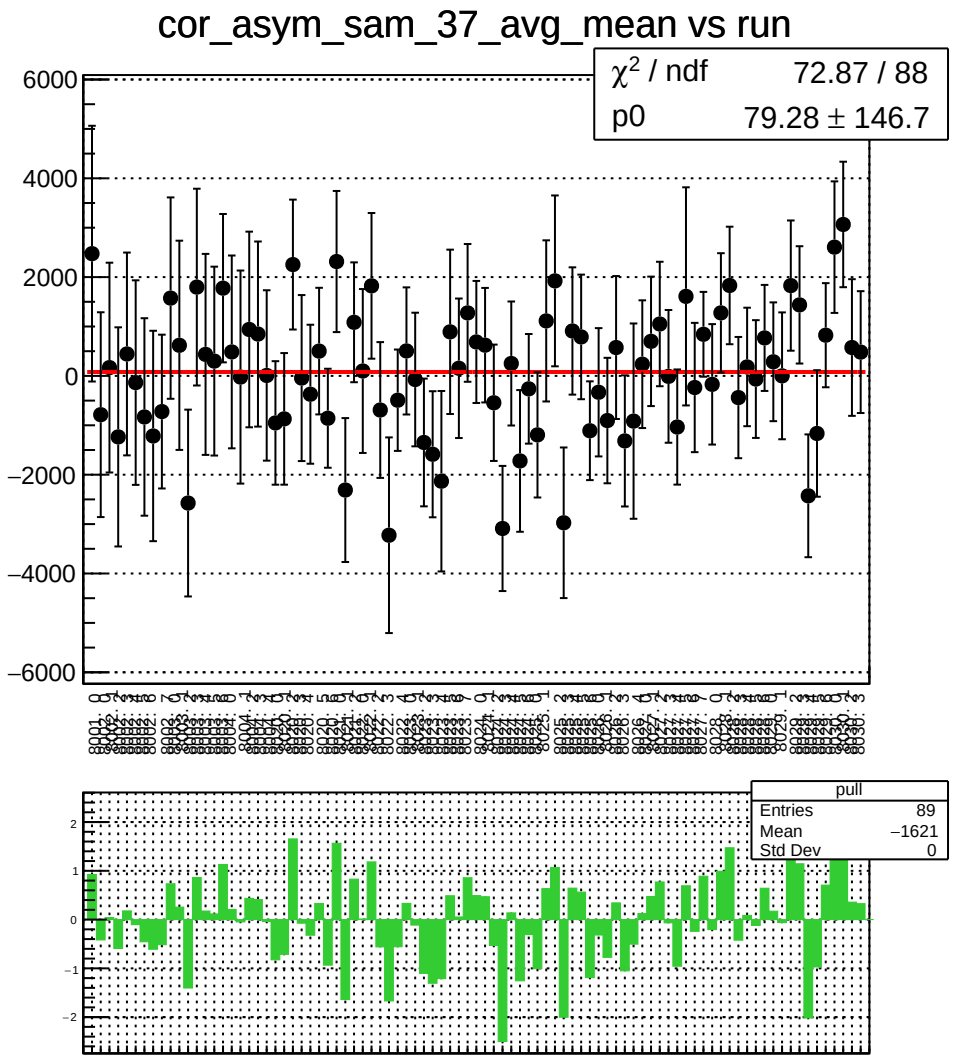

reg_asym_sam_37_avg_mean vs run
χ² / ndf 72.87 / 88
p0 79.31 ± 146.7
pull
Entries 89
Mean −1620
Std Dev 0

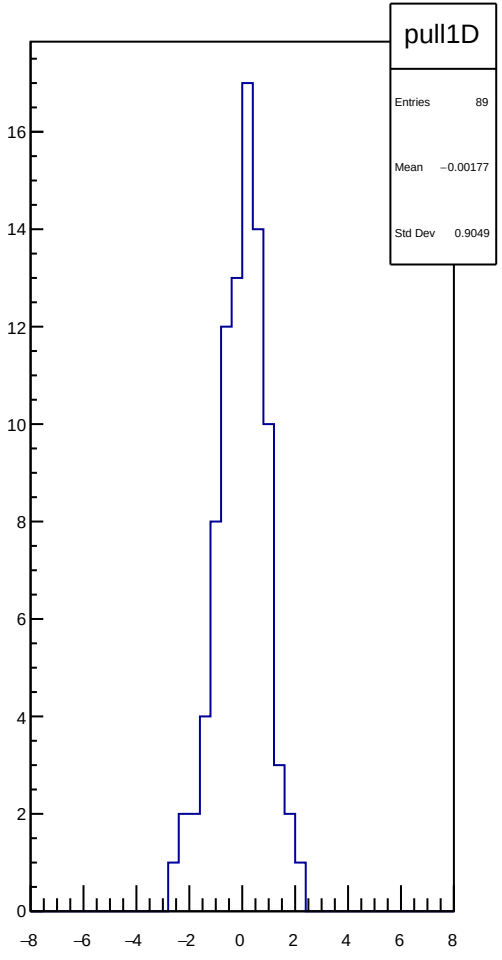

pull1D
Entries 89
Mean −0.001771
Std Dev 0.9049

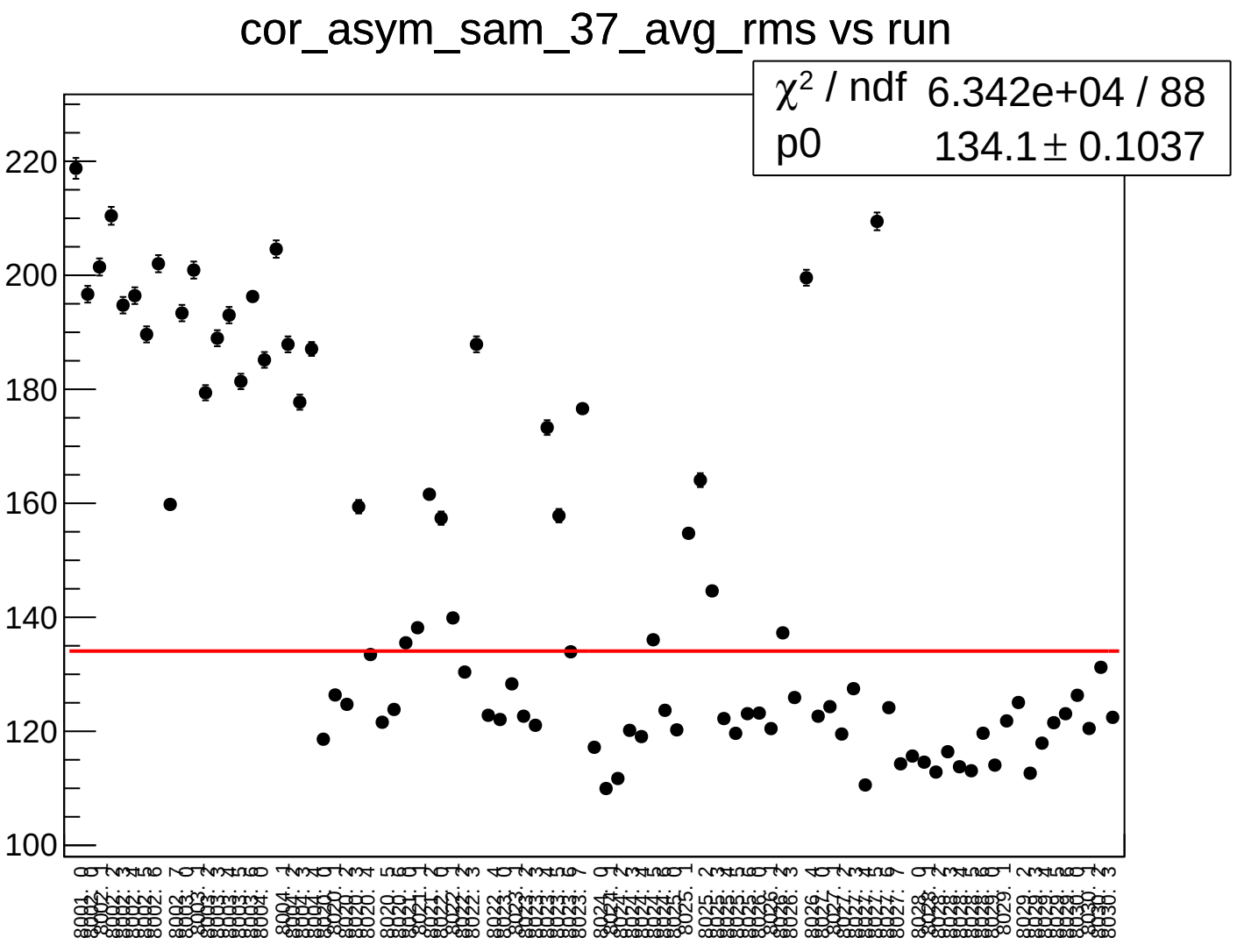

reg_asym_sam_37_avg_rms vs run
χ² / ndf 6.342e+04 / 88
p0 134.1 ± 0.1037
220
200
180
160
140
120
100

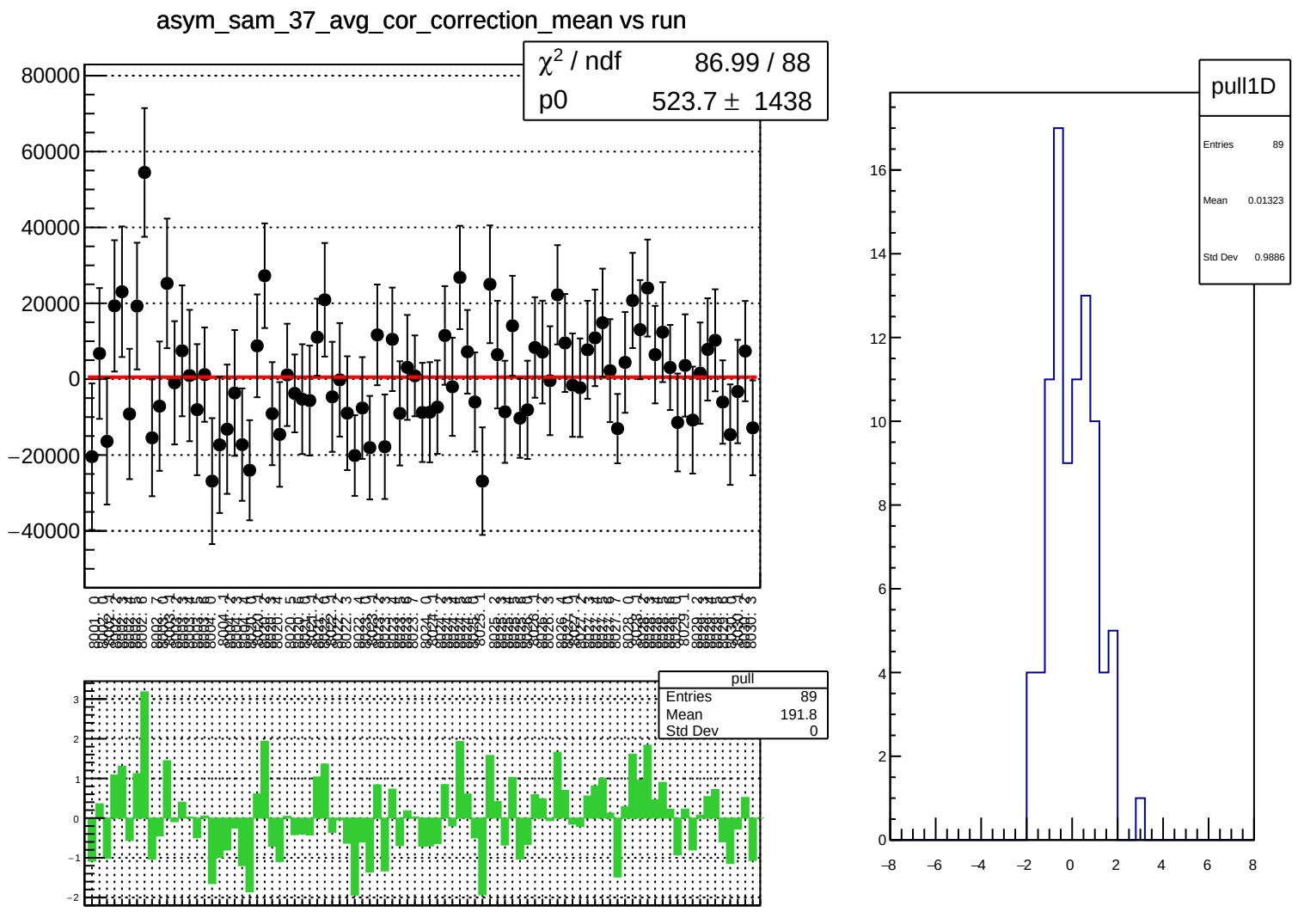

asym_sam_37_avg_reg_correction_mean vs run
χ² / ndf 86.99 / 88
p0 523.8 ± 1438
80000
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 191.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.01322
Std Dev 0.9886
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

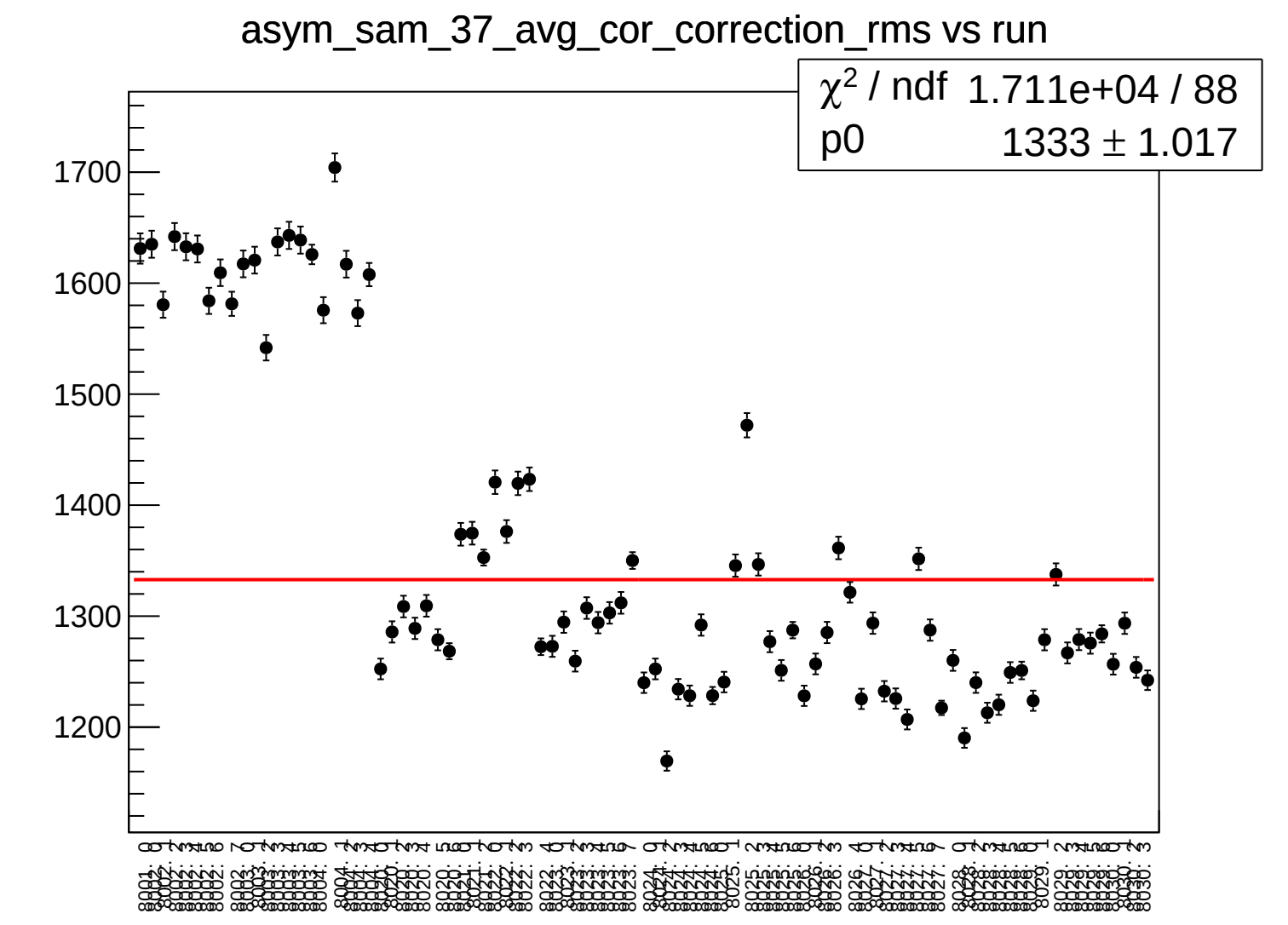

asym_sam_37_avg_reg_correction_rms vs run
χ² / ndf 1.711e+04 / 88
p0 1333 ± 1.017
1700
1600
1500
1400
1300
1200

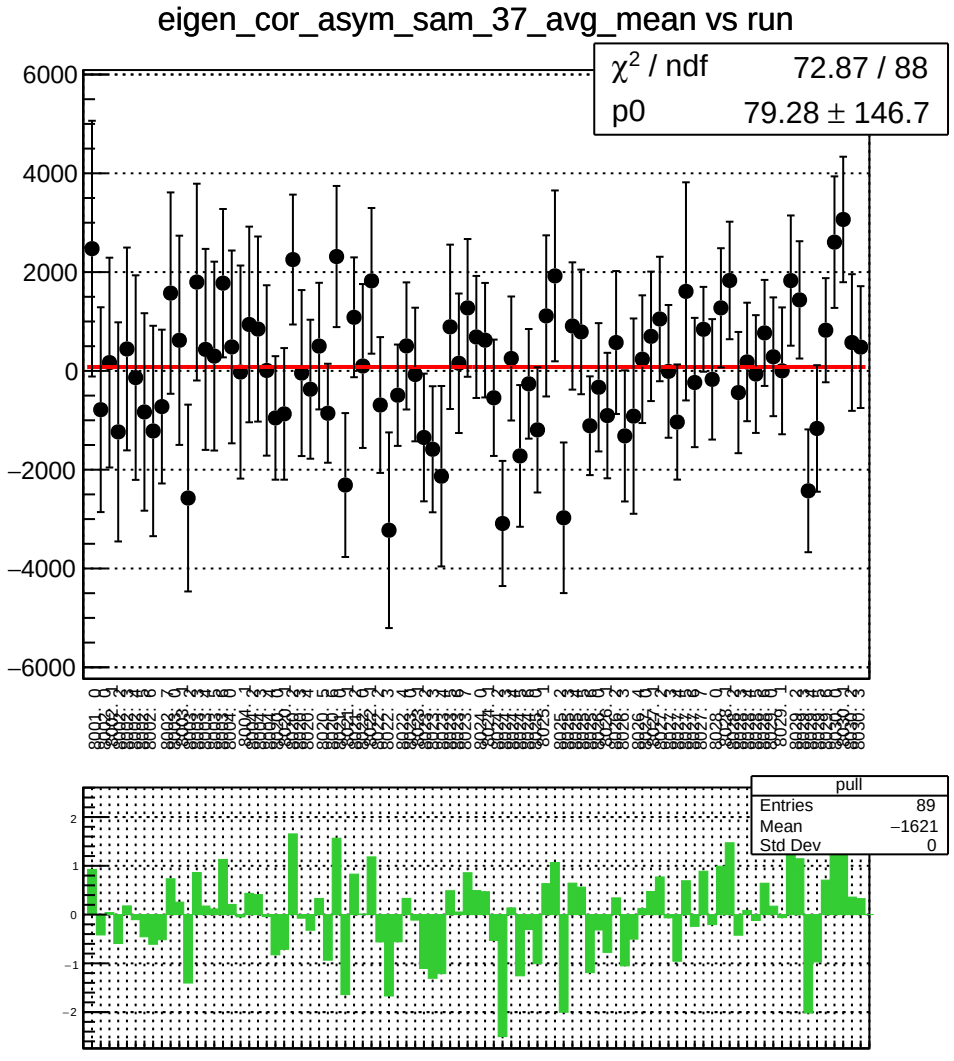

cor_asym_sam_37_avg_mean vs run
χ² / ndf 72.87 / 88
p0 79.28 ± 146.7
pull
Entries 89
Mean −1621
Std Dev 0

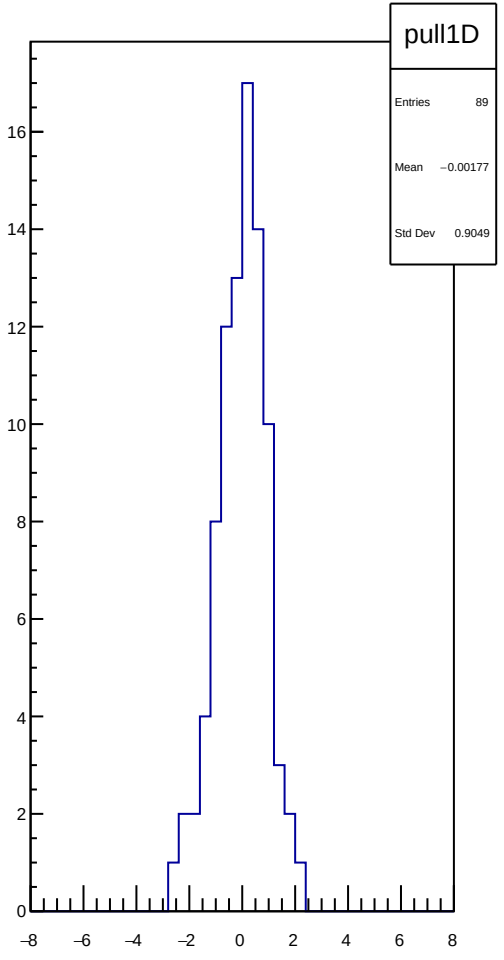

pull1D
Entries 89
Mean −0.00177
Std Dev 0.9049

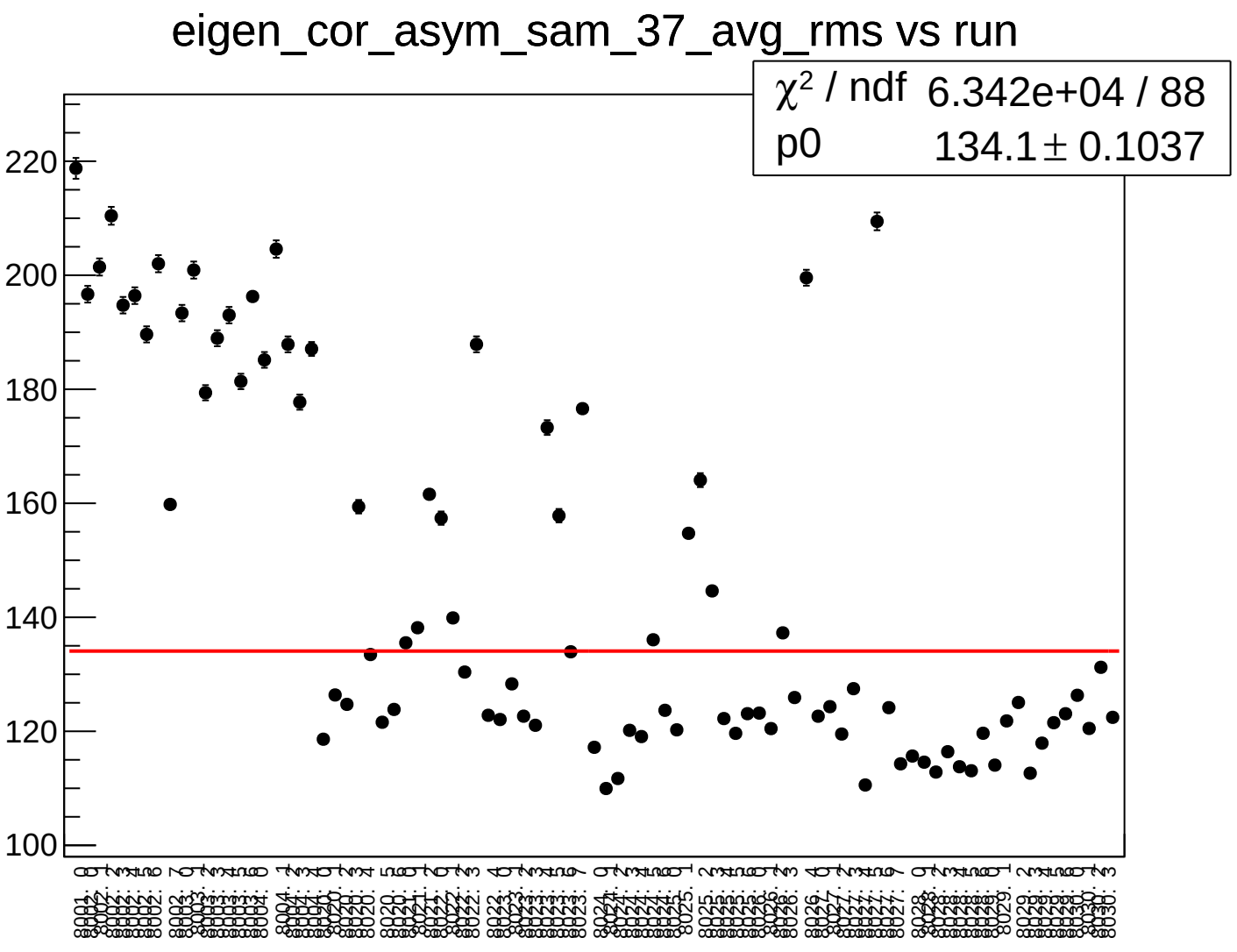

cor_asym_sam_37_avg_rms vs run
χ² / ndf 6.342e+04 / 88
p0 134.1 ± 0.1037
220
200
180
160
140
120
100

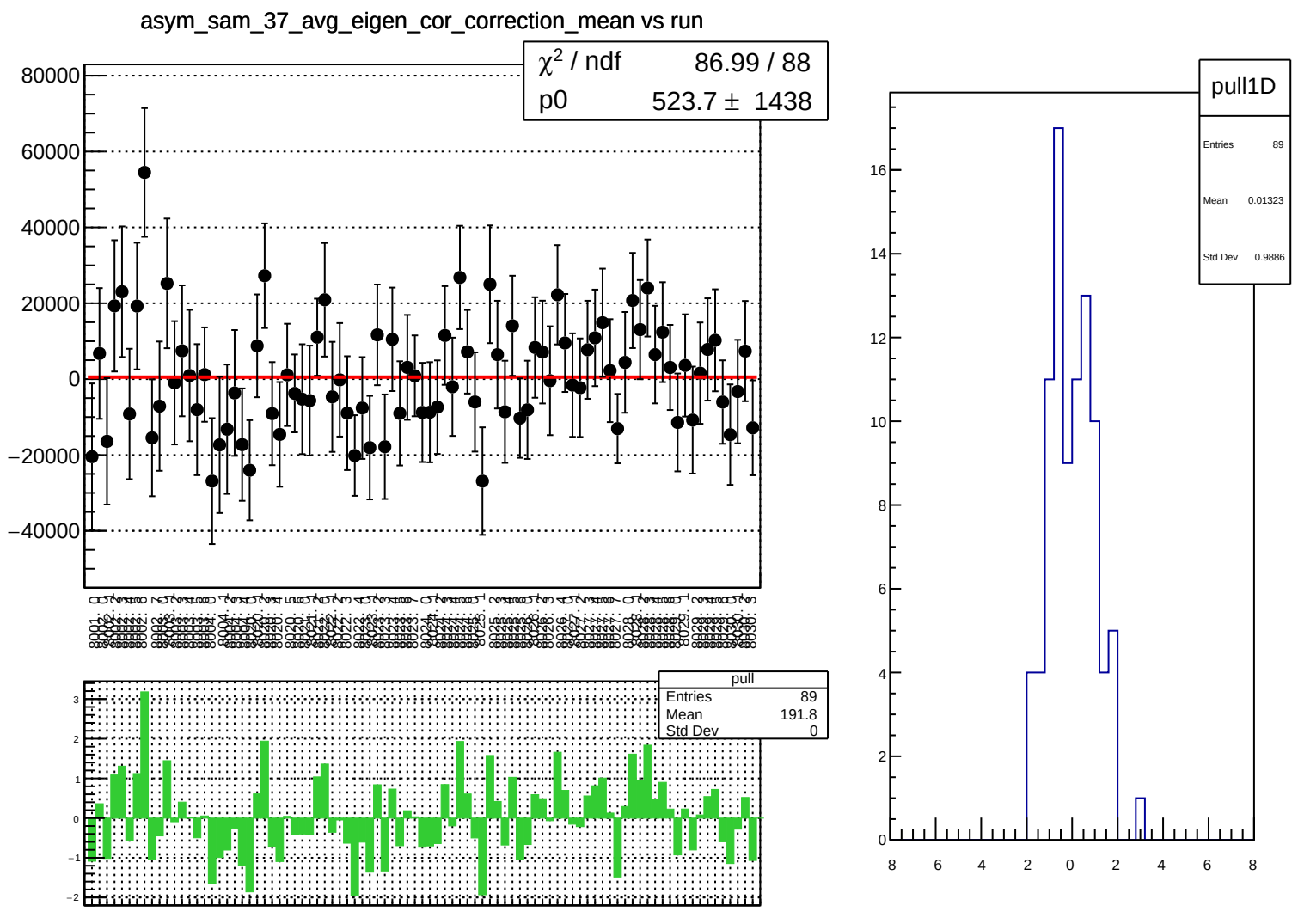

asym_sam_37_avg_cor_correction_mean vs run
χ² / ndf 86.99 / 88
p0 523.7 ± 1438
pull
Entries 89
Mean 191.8
Std Dev 0
pull1D
Entries 89
Mean 0.01323
Std Dev 0.9886

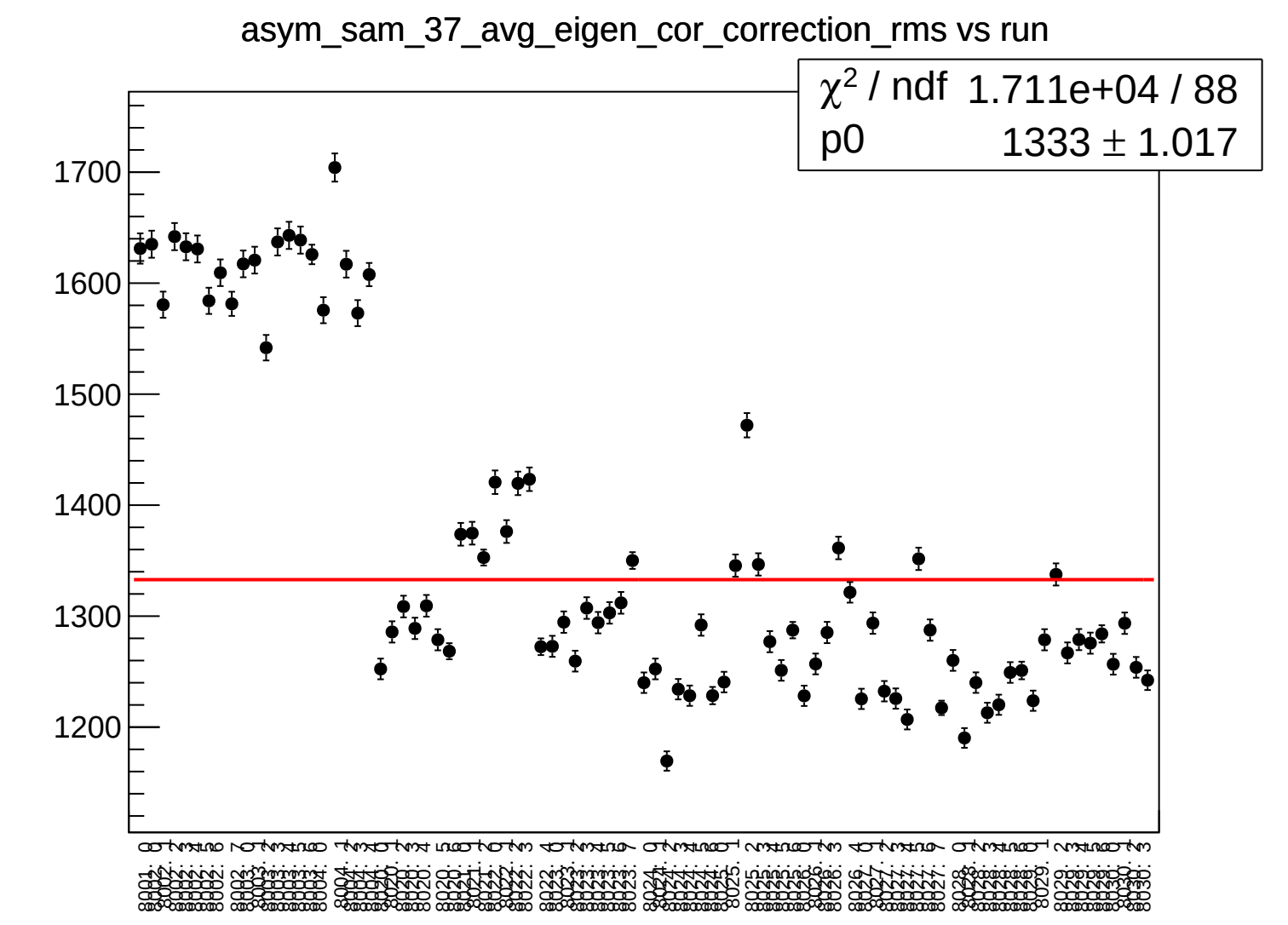

asym_sam_37_avg_cor_correction_rms vs run
χ² / ndf 1.711e+04 / 88
p0 1333 ± 1.017
1700
1600
1500
1400
1300
1200

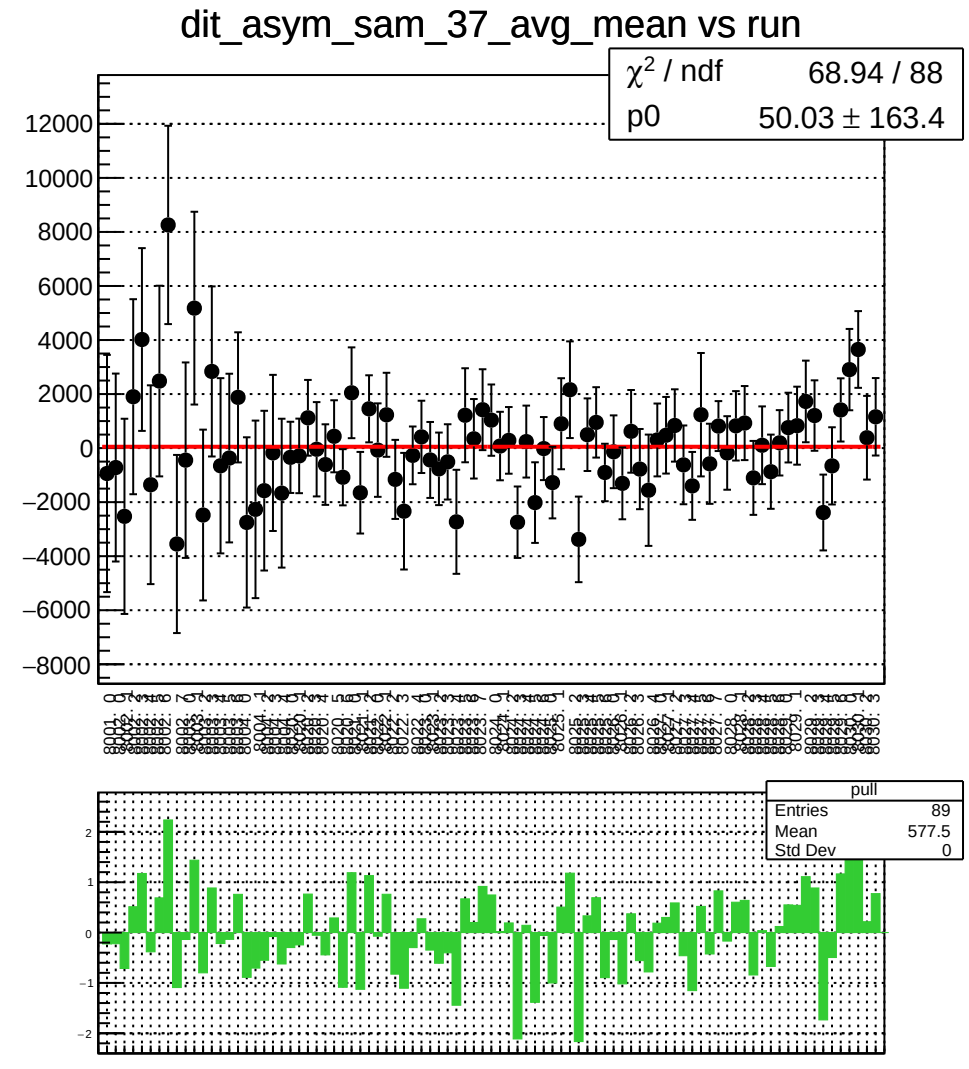

eigen_cor_asym_sam_37_avg_mean vs run
χ² / ndf 72.87 / 88
p0 79.28 ± 146.7
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean −1621
Std Dev 0
2
1
0
−1
−2

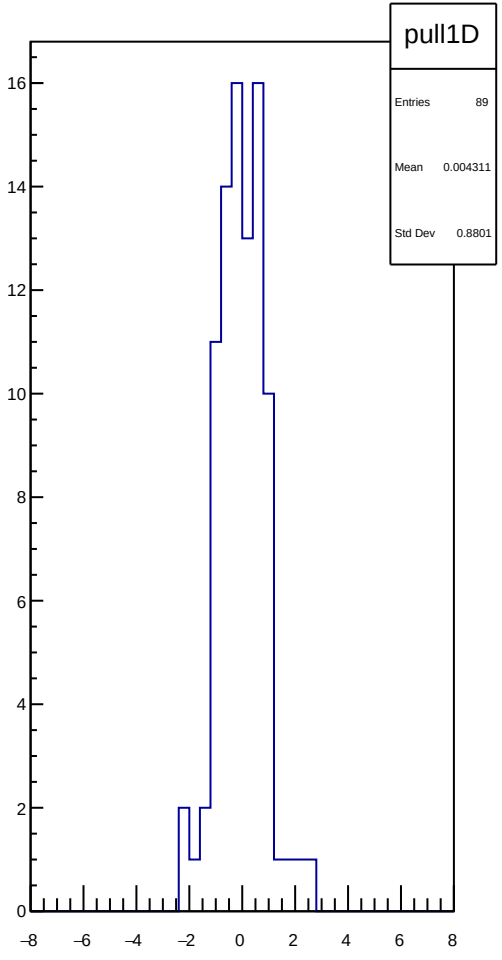

pull1D
Entries 89
Mean −0.00177
Std Dev 0.9049
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

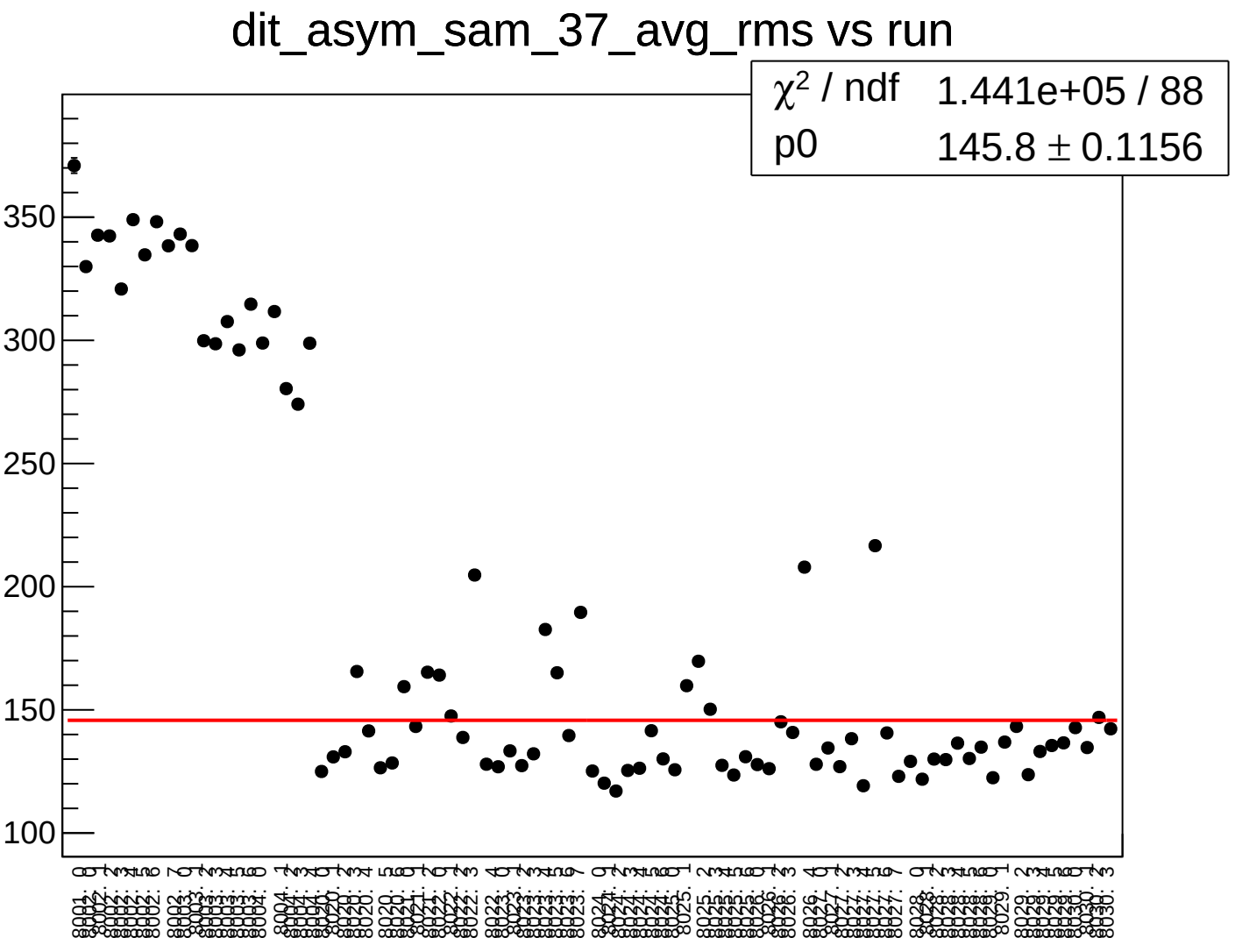

eigen_cor_asym_sam_37_avg_rms vs run
χ² / ndf 6.342e+04 / 88
p0 134.1 ± 0.1037
220
200
180
160
140
120
100

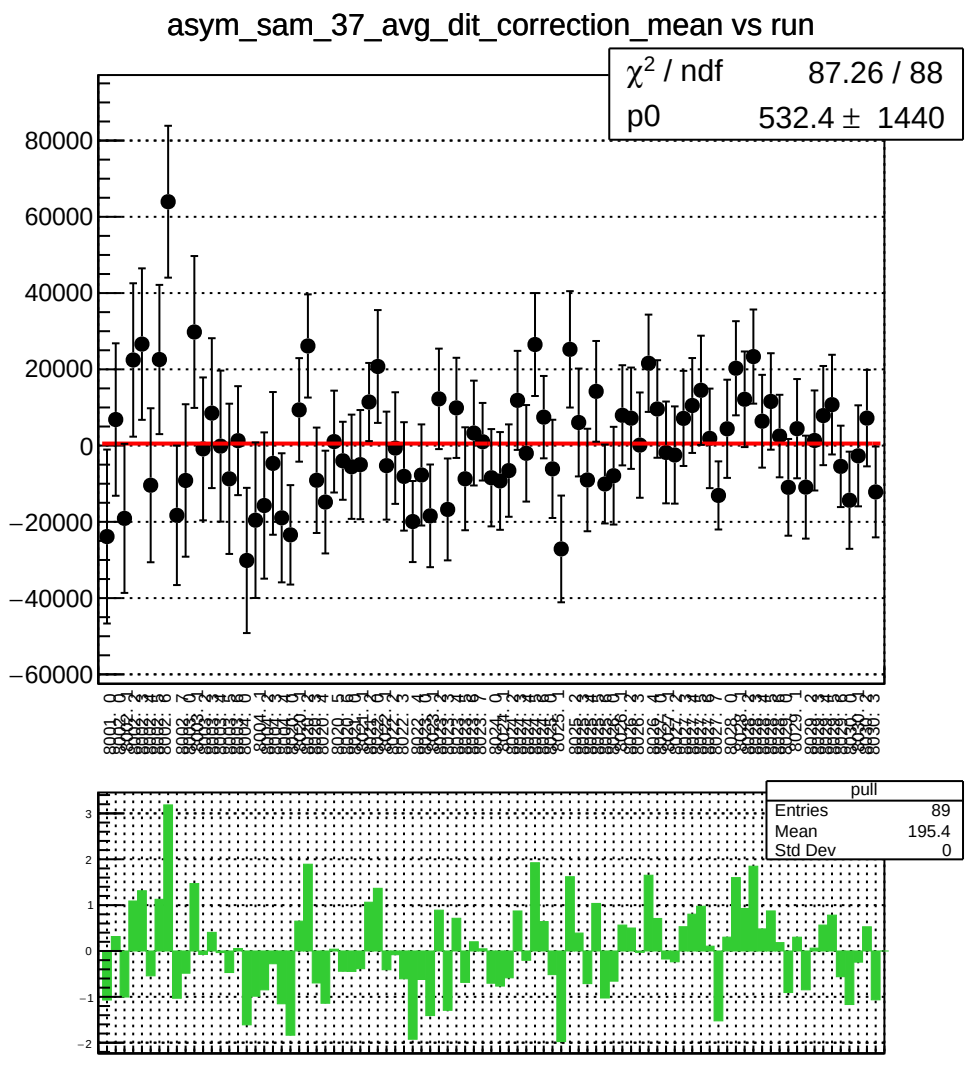

asym_sam_37_avg_eigen_cor_correction_mean vs run
χ² / ndf 86.99 / 88
p0 523.7 ± 1438
pull
Entries 89
Mean 191.8
Std Dev 0
pull1D
Entries 89
Mean 0.01323
Std Dev 0.9886

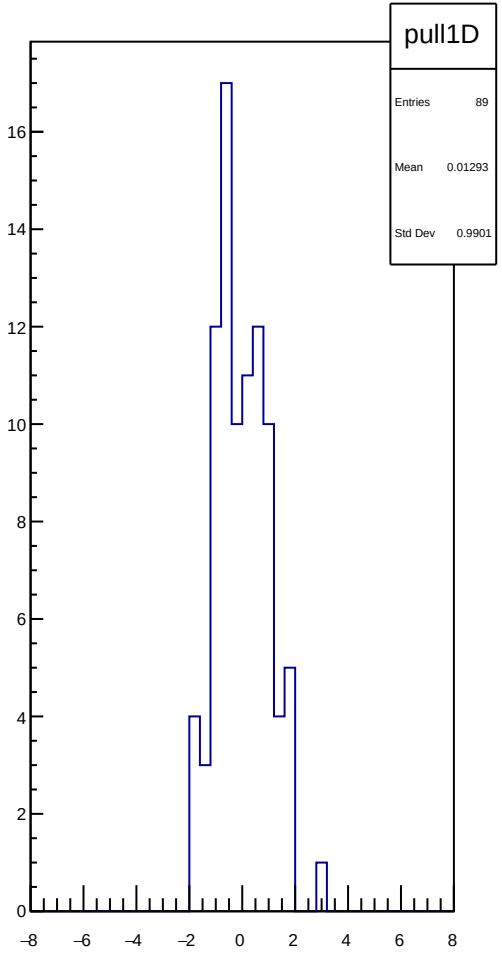

asym_sam_37_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.711e+04 / 88
p0 1333 ± 1.017
1700
1600
1500
1400
1300
1200

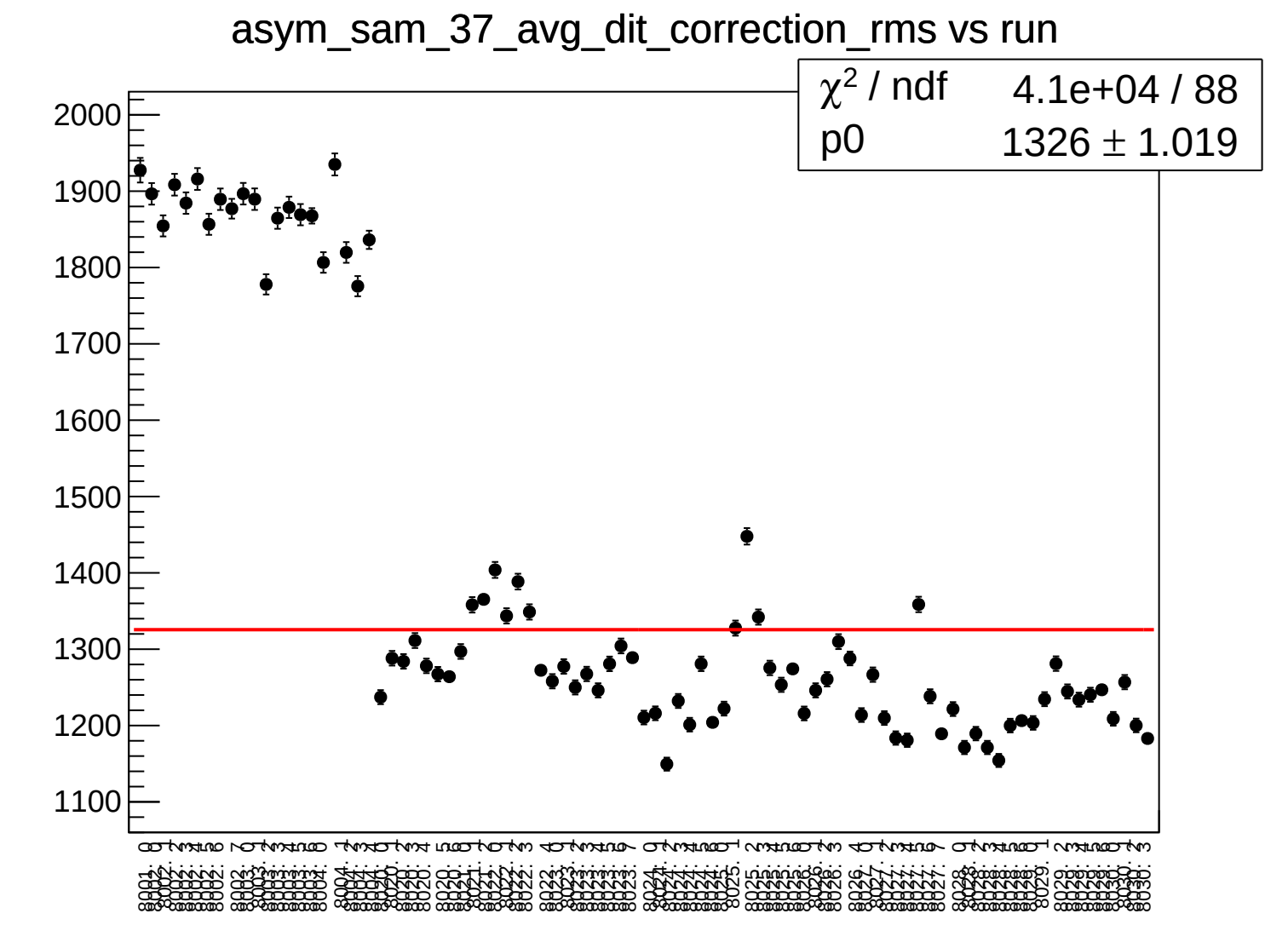

dit_asym_sam_37_avg_mean vs run
χ² / ndf 68.94 / 88
p0 50.03 ± 163.4
pull
Entries 89
Mean 577.5
Std Dev 0

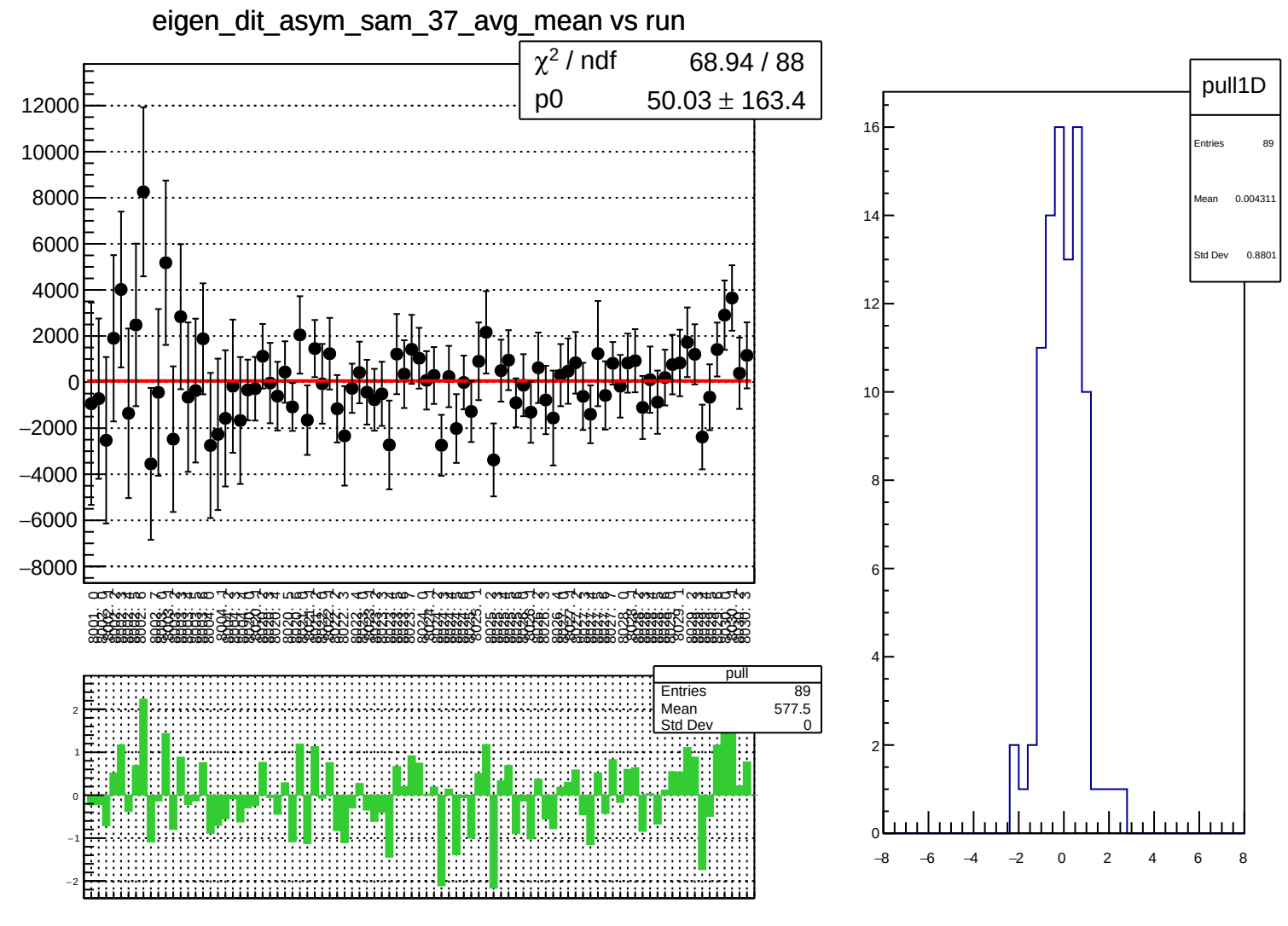

pull1D
Entries 89
Mean 0.004311
Std Dev 0.8801

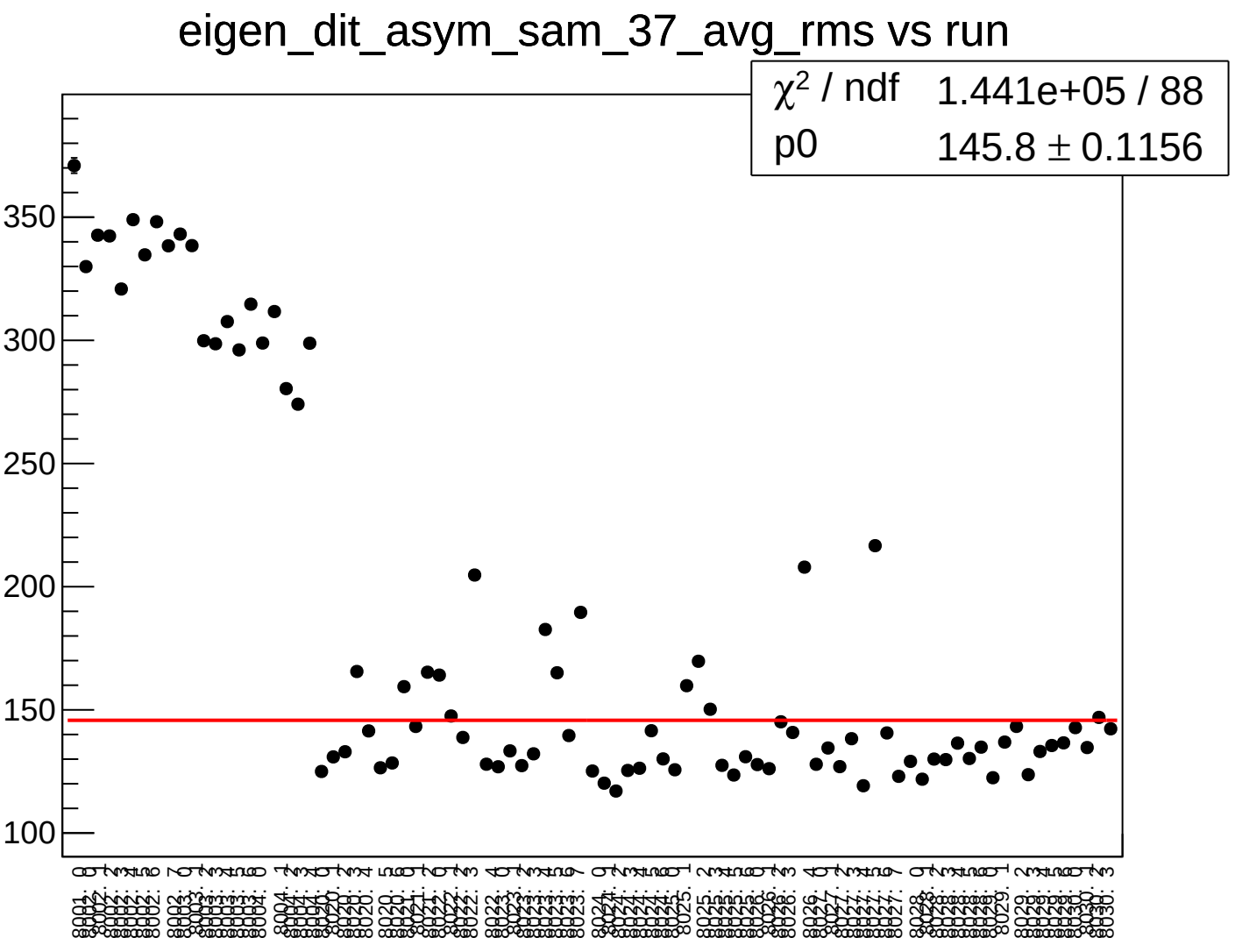

dit_asym_sam_37_avg_rms vs run
χ² / ndf 1.441e+05 / 88
p0 145.8 ± 0.1156
350
300
250
200
150
100

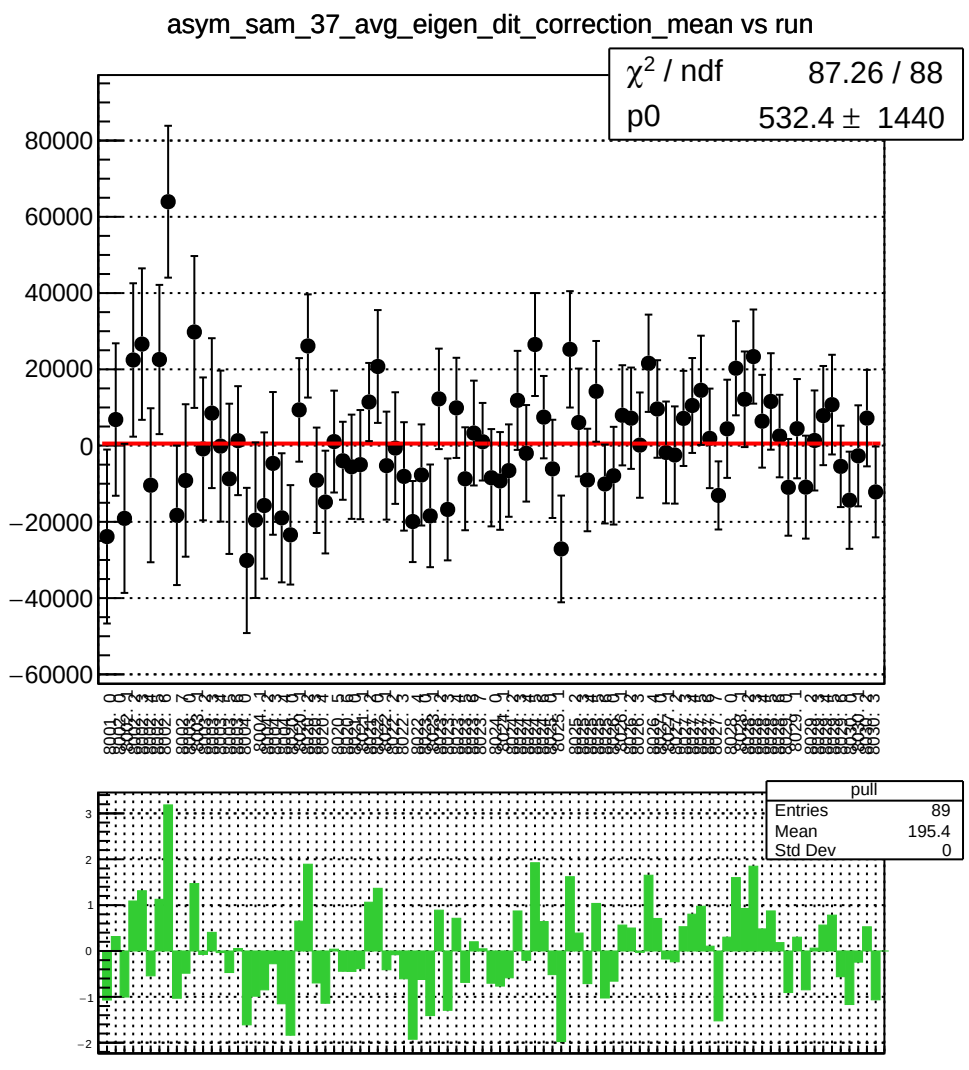

asym_sam_37_avg_dit_correction_mean vs run
χ² / ndf 87.26 / 88
p0 532.4 ± 1440
pull
Entries 89
Mean 195.4
Std Dev 0

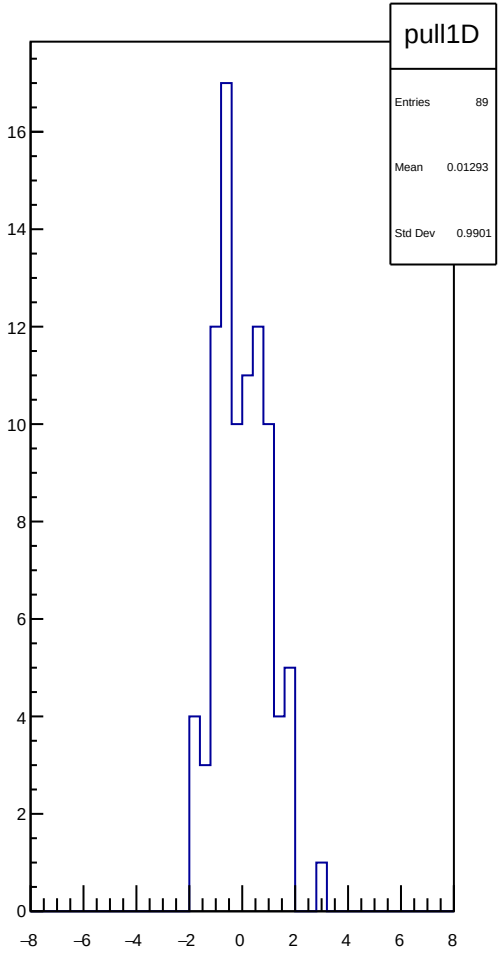

pull1D
Entries 89
Mean 0.01293
Std Dev 0.9901

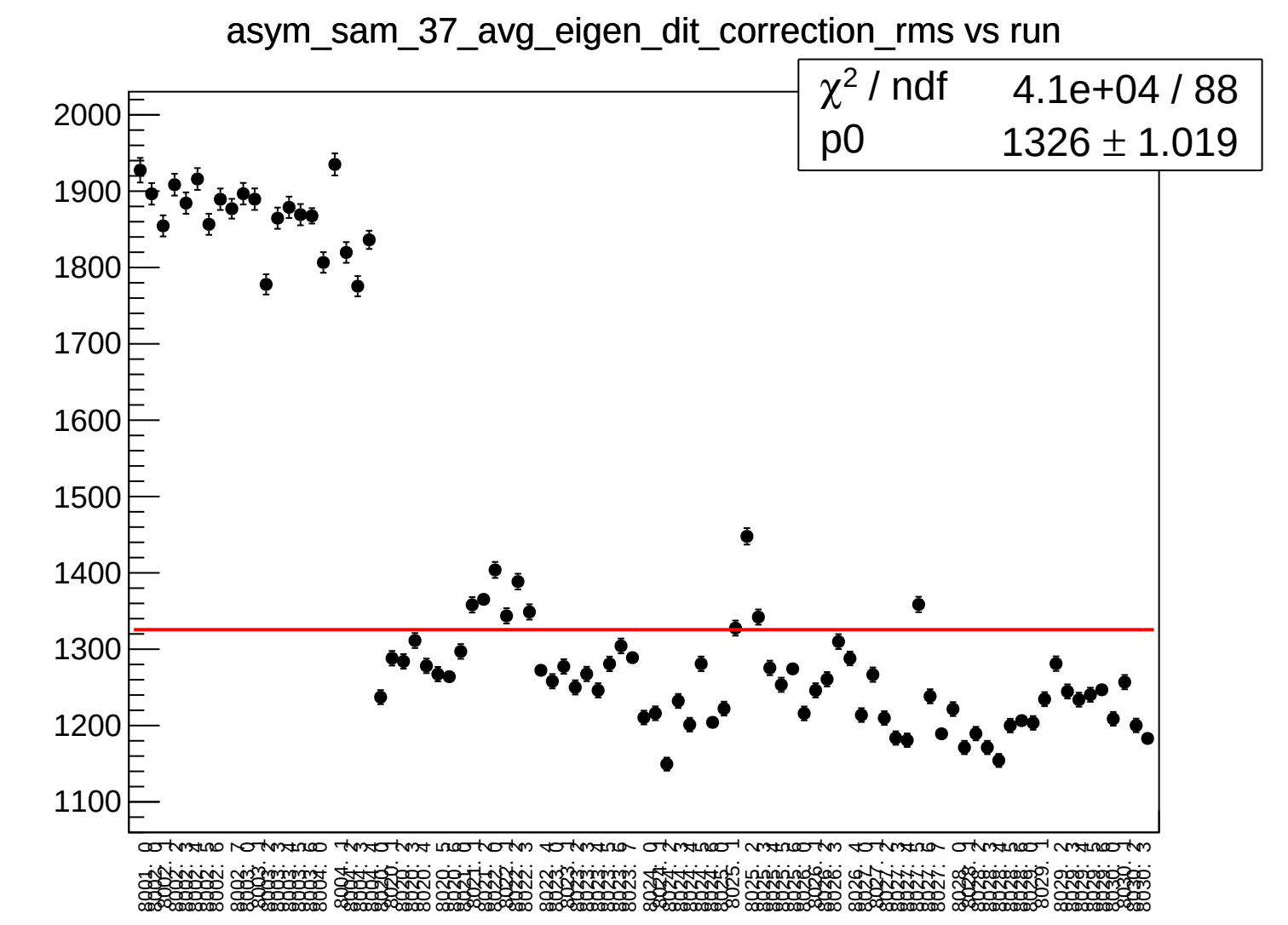

asym_sam_37_avg_dit_correction_rms vs run
χ² / ndf 4.1e+04 / 88
p0 1326 ± 1.019
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100

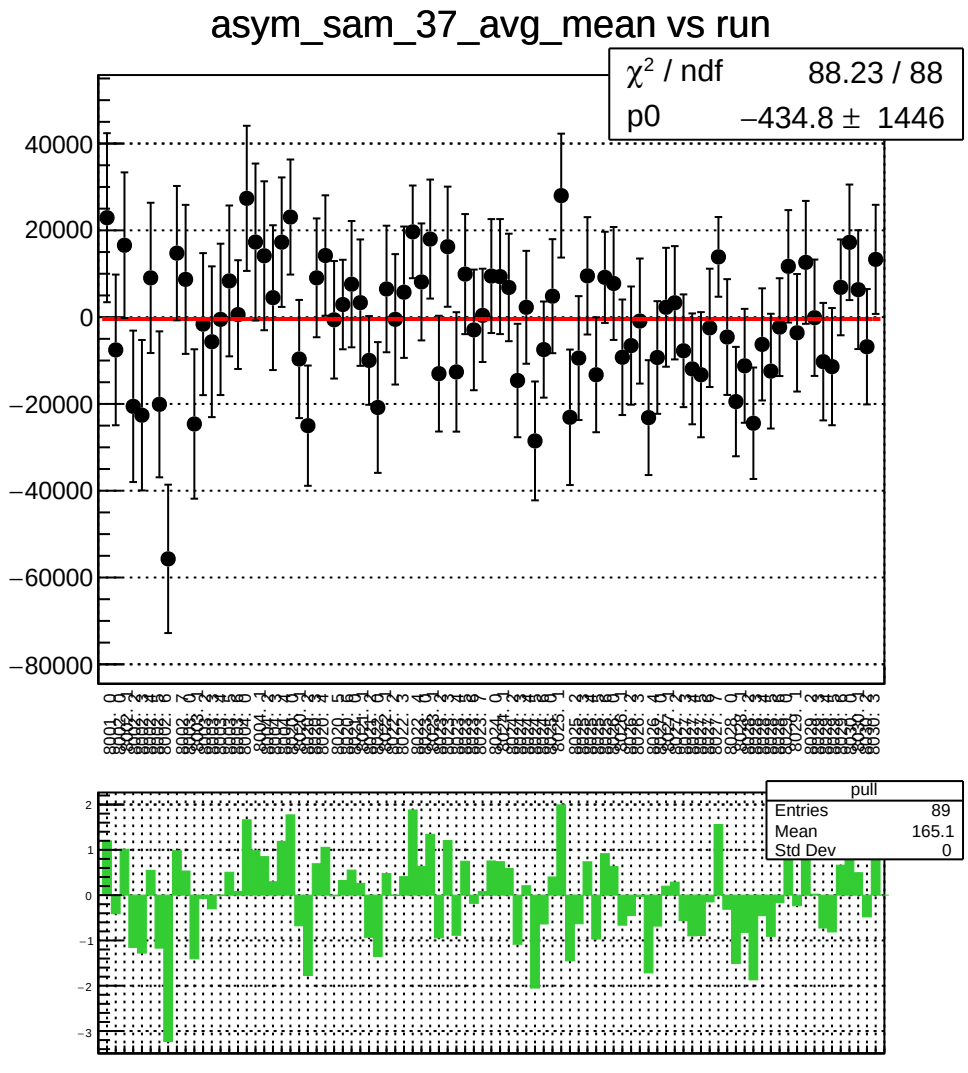

eigen_dit_asym_sam_37_avg_mean vs run
χ² / ndf 68.94 / 88
p0 50.03 ± 163.4
pull
Entries 89
Mean 577.5
Std Dev 0
pull1D
Entries 89
Mean 0.004311
Std Dev 0.8801

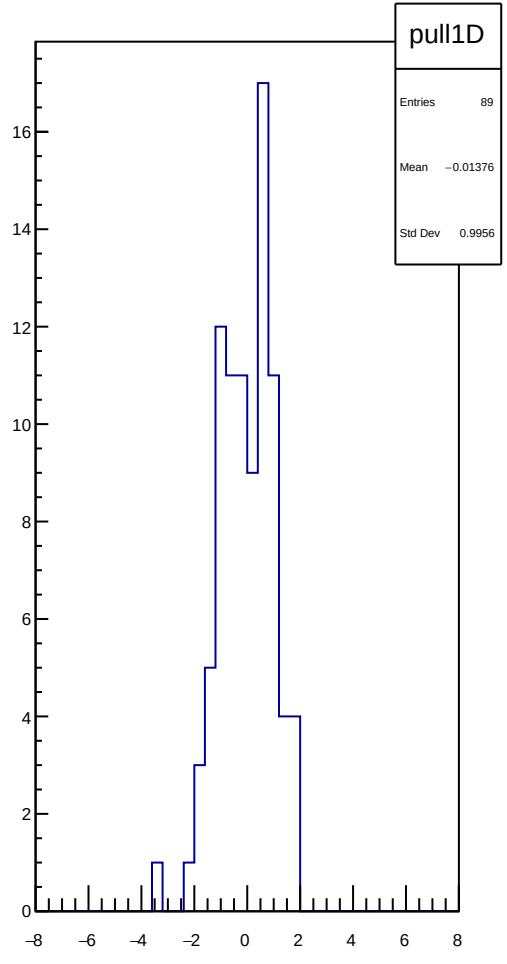

eigen_dit_asym_sam_37_avg_rms vs run
χ² / ndf 1.441e+05 / 88
p0 145.8 ± 0.1156
350
300
250
200
150
100

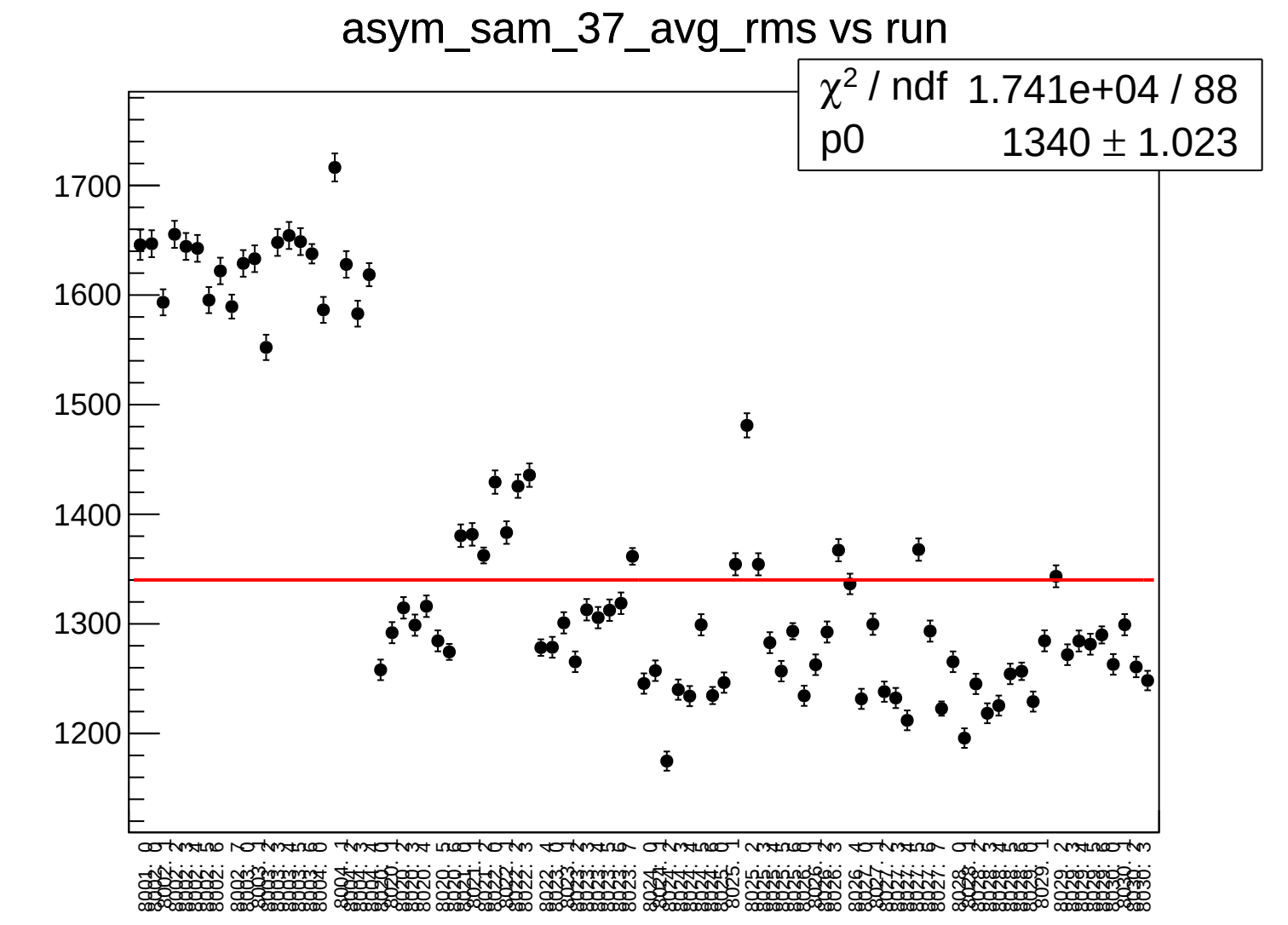

asym_sam_37_avg_eigen_dit_correction_mean vs run
χ² / ndf 87.26 / 88
p0 532.4 ± 1440
pull
Entries 89
Mean 195.4
Std Dev 0

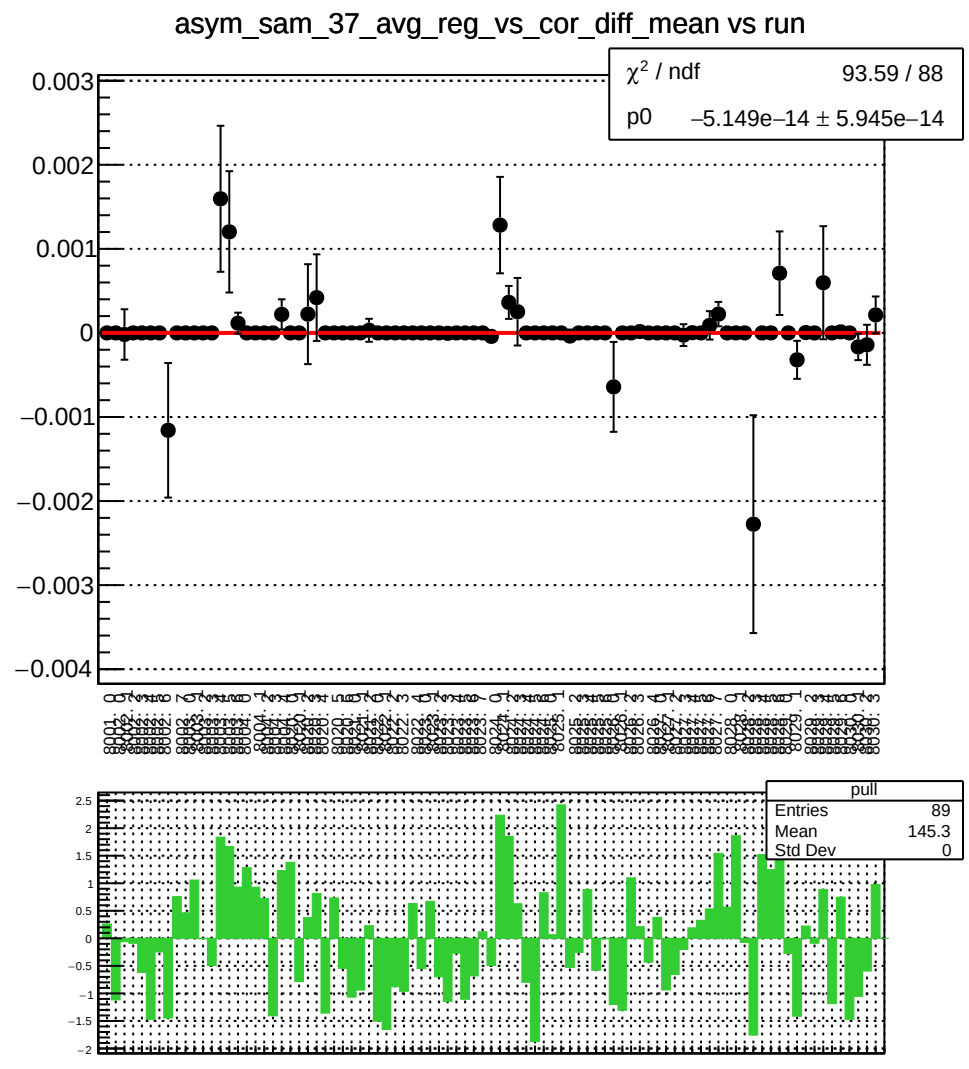

pull1D
Entries 89
Mean 0.01293
Std Dev 0.9901

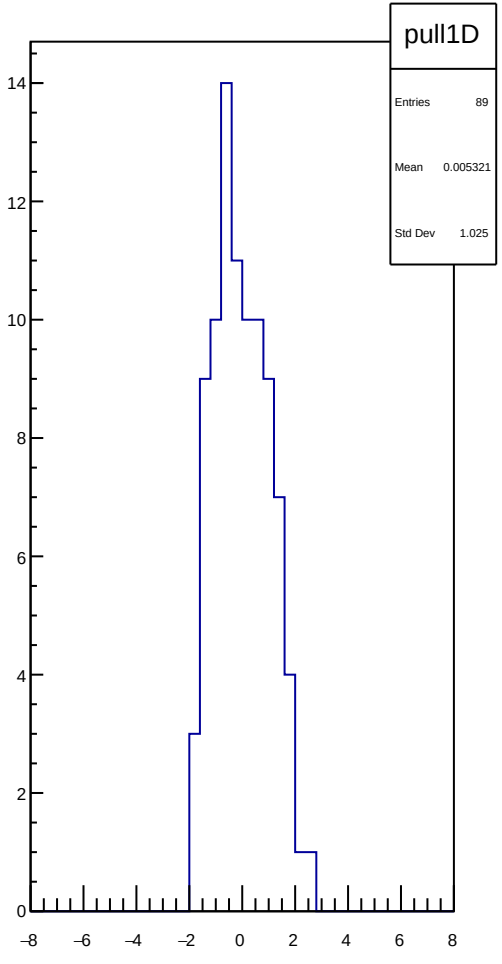

asym_sam_37_avg_eigen_dit_correction_rms vs run
χ² / ndf 4.1e+04 / 88
p0 1326 ± 1.019
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100

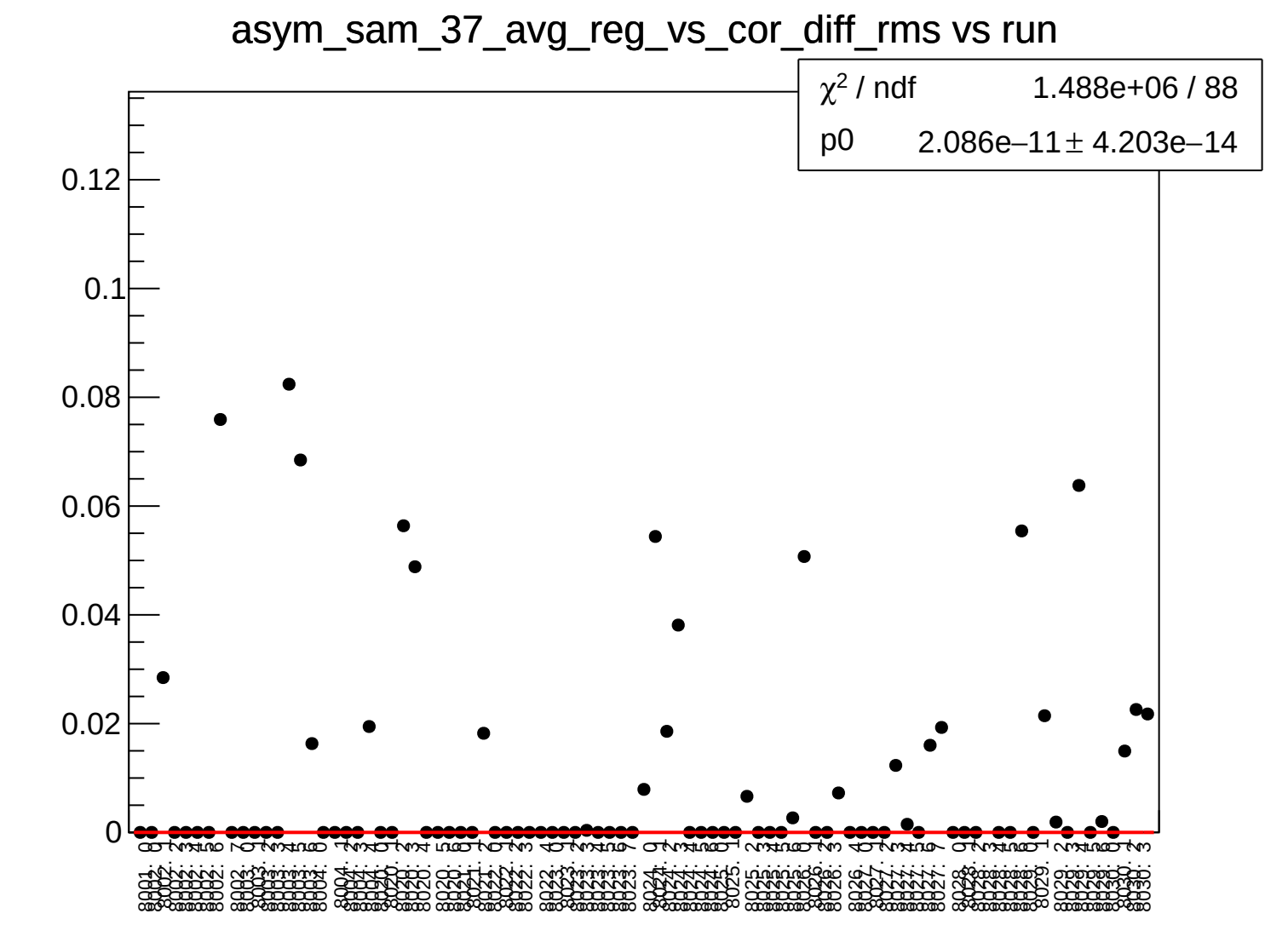

asym_sam_37_avg_mean vs run
χ² / ndf 88.23 / 88
p0 −434.8 ± 1446
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean 165.1
Std Dev 0
2
1
0
−1
−2
−3

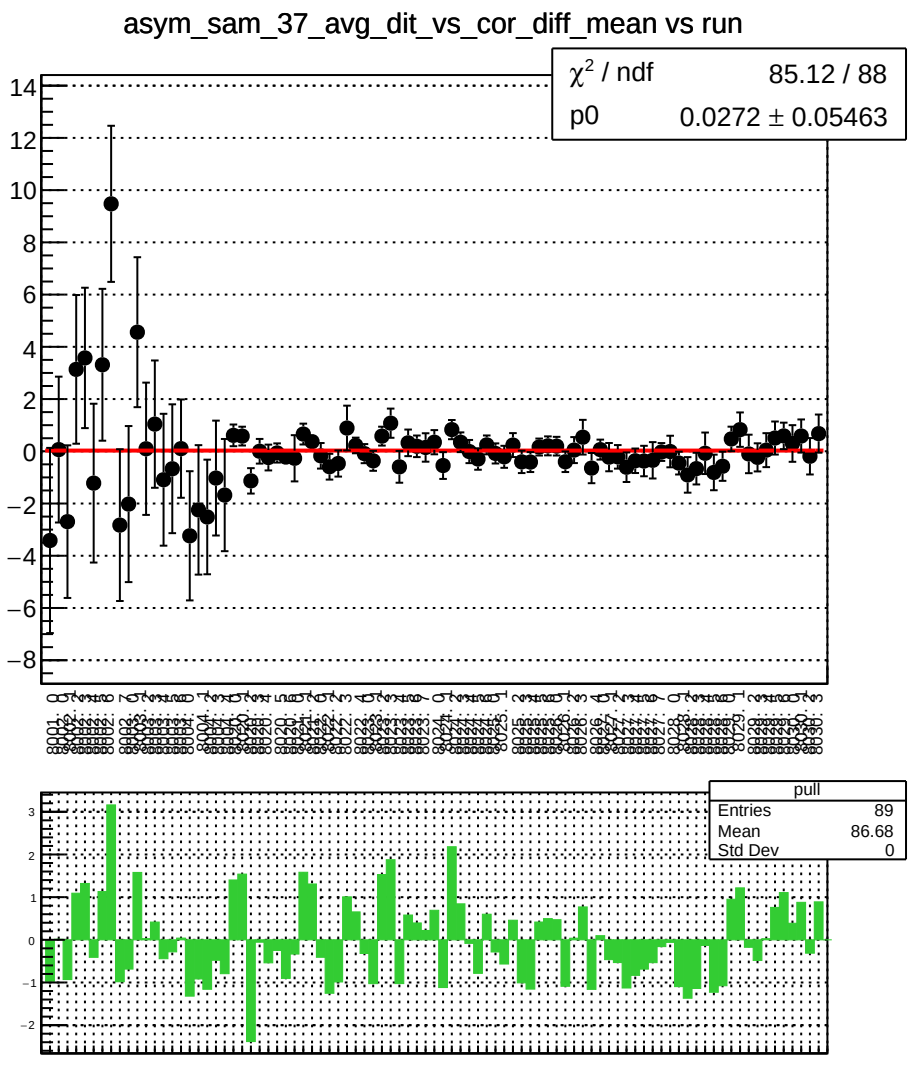

pull1D
Entries 89
Mean −0.01376
Std Dev 0.9956
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

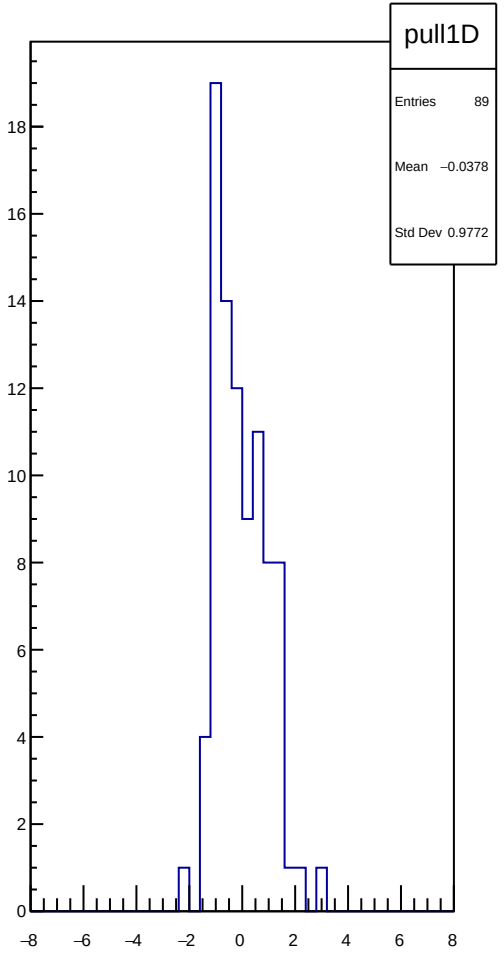

asym_sam_37_avg_rms vs run
χ² / ndf 1.741e+04 / 88
p0 1340 ± 1.023
1700
1600
1500
1400
1300
1200

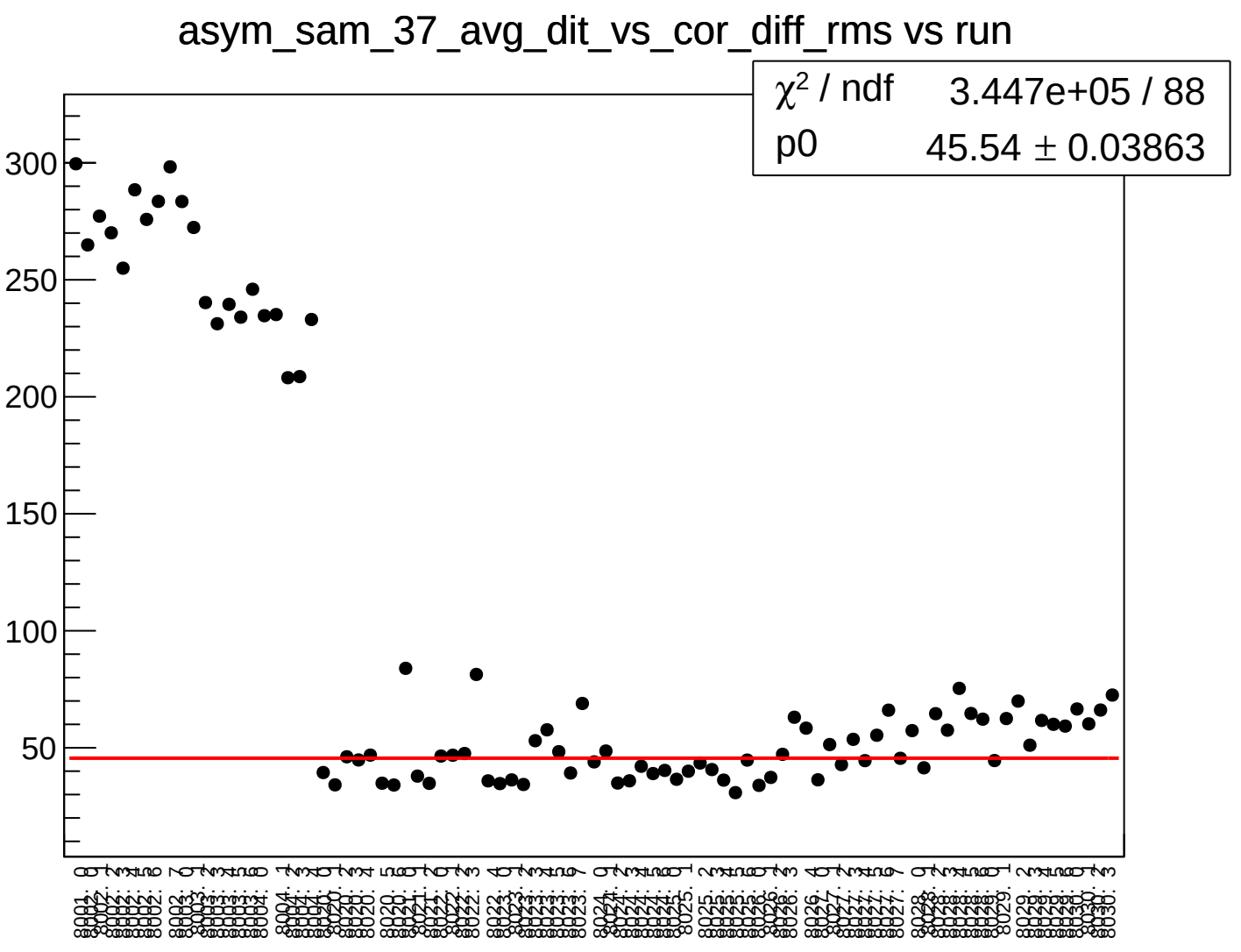

asym_sam_37_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 93.59 / 88
p0 −5.149e−14 ± 5.945e−14
pull
Entries 89
Mean 145.3
Std Dev 0

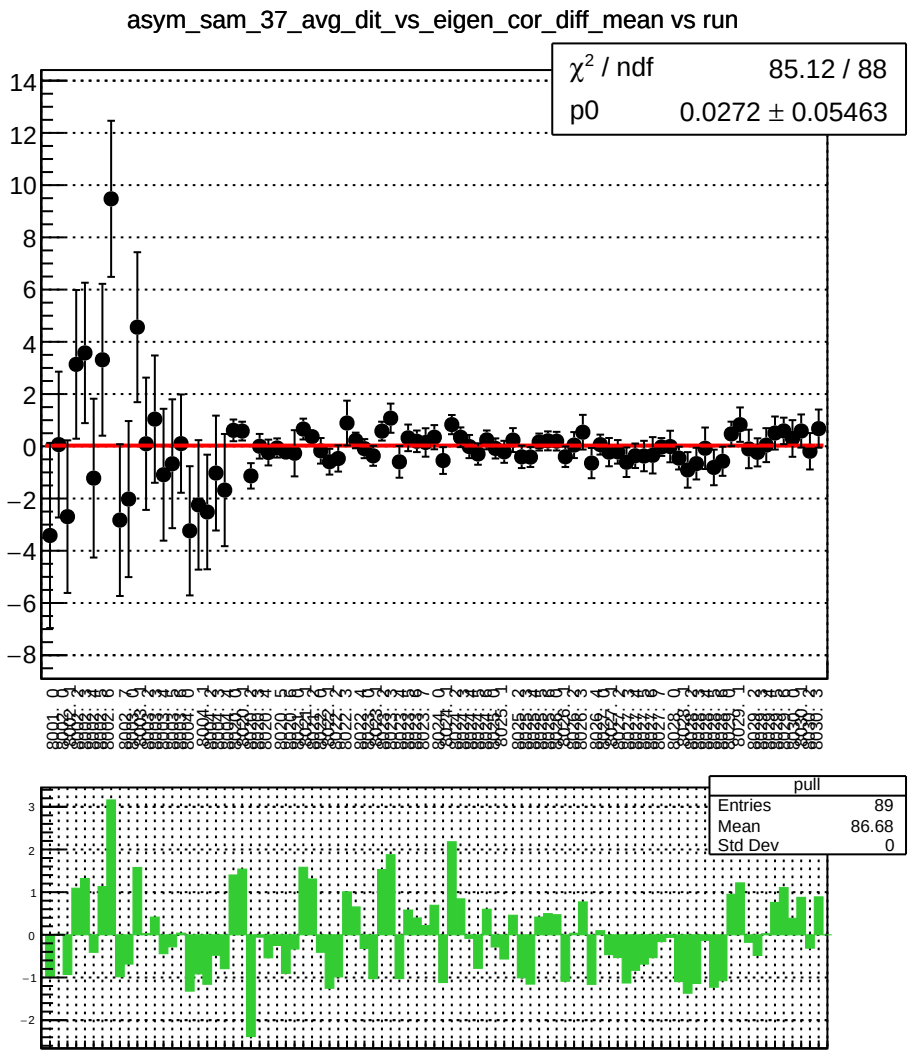

pull1D
Entries 89
Mean 0.005321
Std Dev 1.025

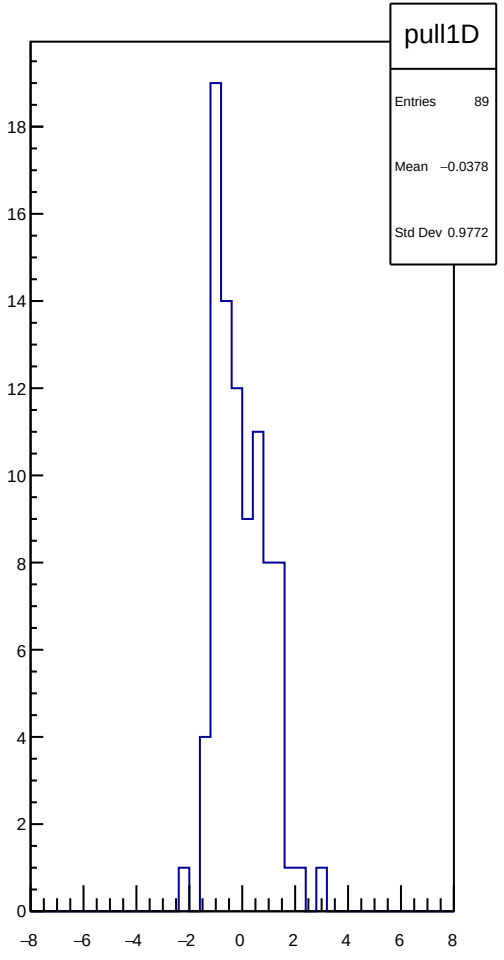

asym_sam_37_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.488e+06 / 88
p0 2.086e−11 ± 4.203e−14
0.12
0.1
0.08
0.06
0.04
0.02
0

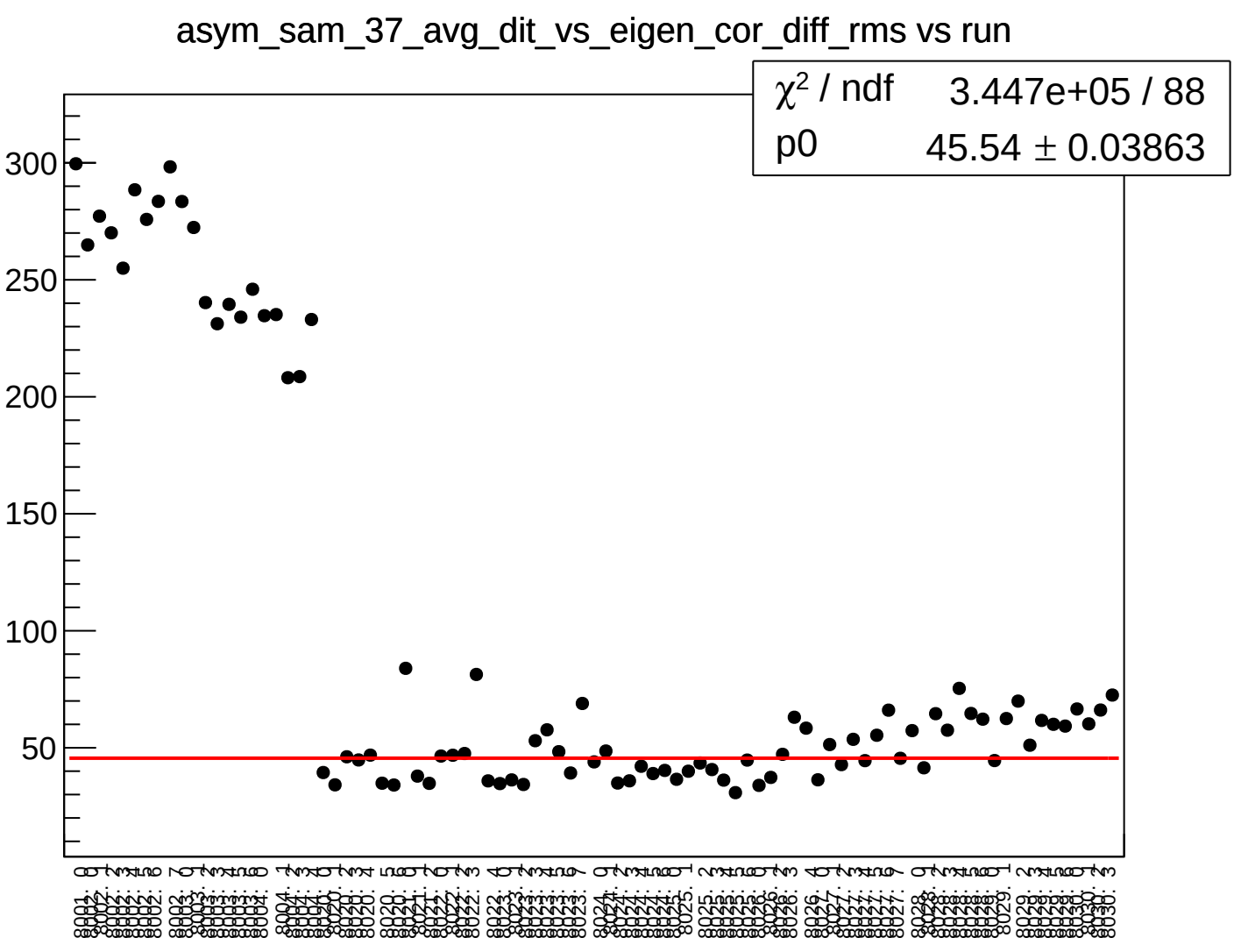

asym_sam_37_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 85.12 / 88
p0 0.0272 ± 0.05463
pull
Entries 89
Mean 86.68
Std Dev 0

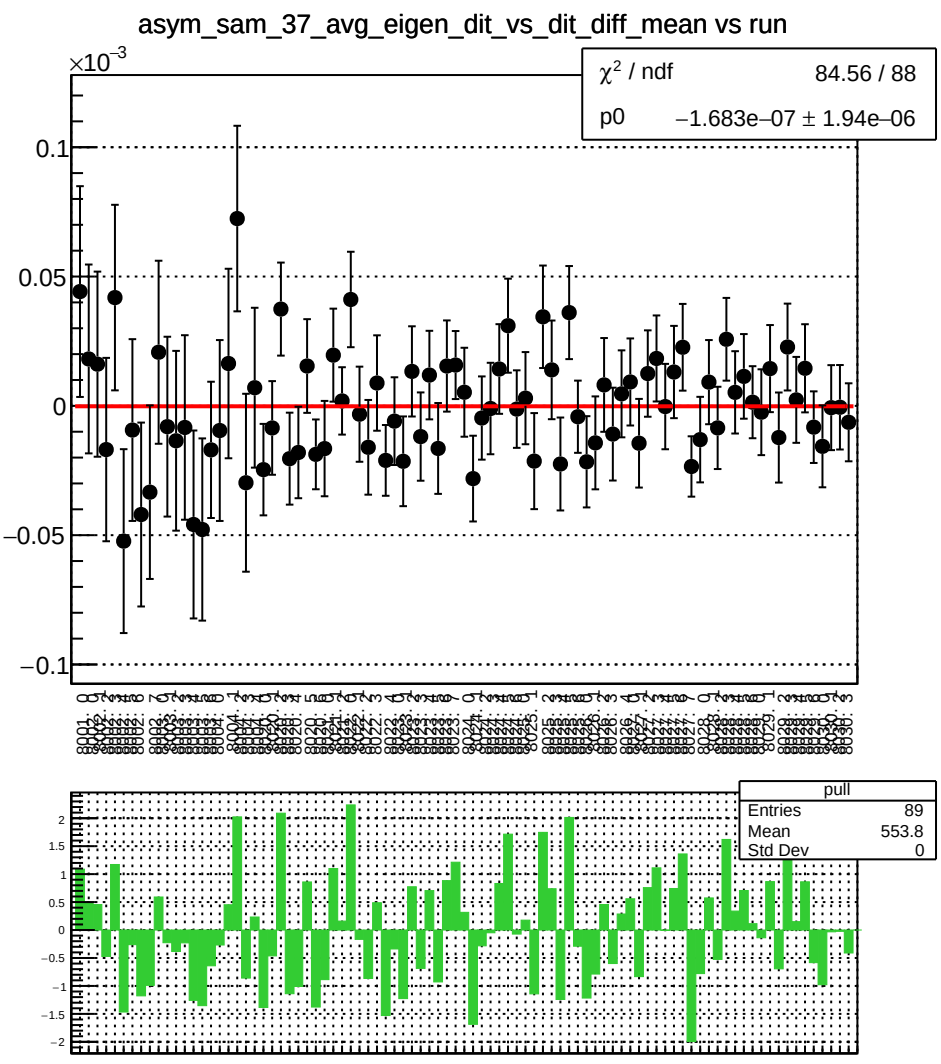

pull1D
Entries 89
Mean −0.0378
Std Dev 0.9772

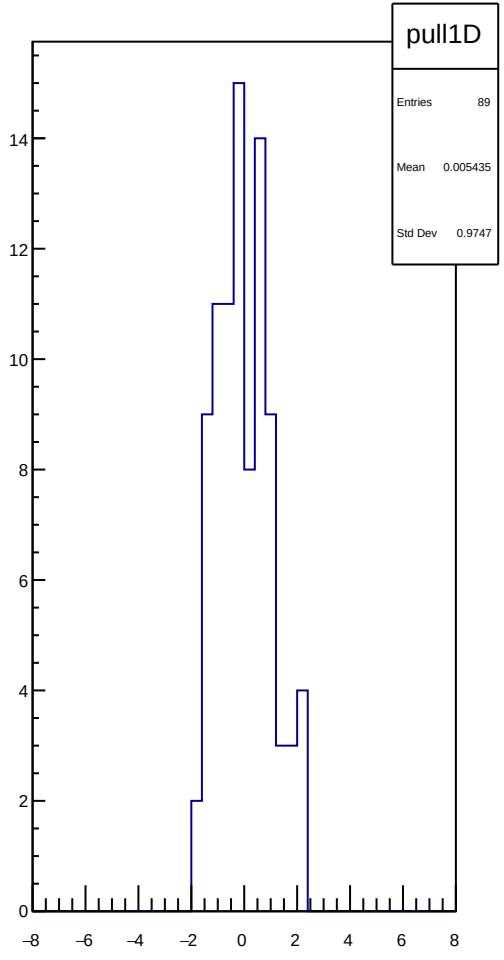

asym_sam_37_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.447e+05 / 88
p0 45.54 ± 0.03863
300
250
200
150
100
50

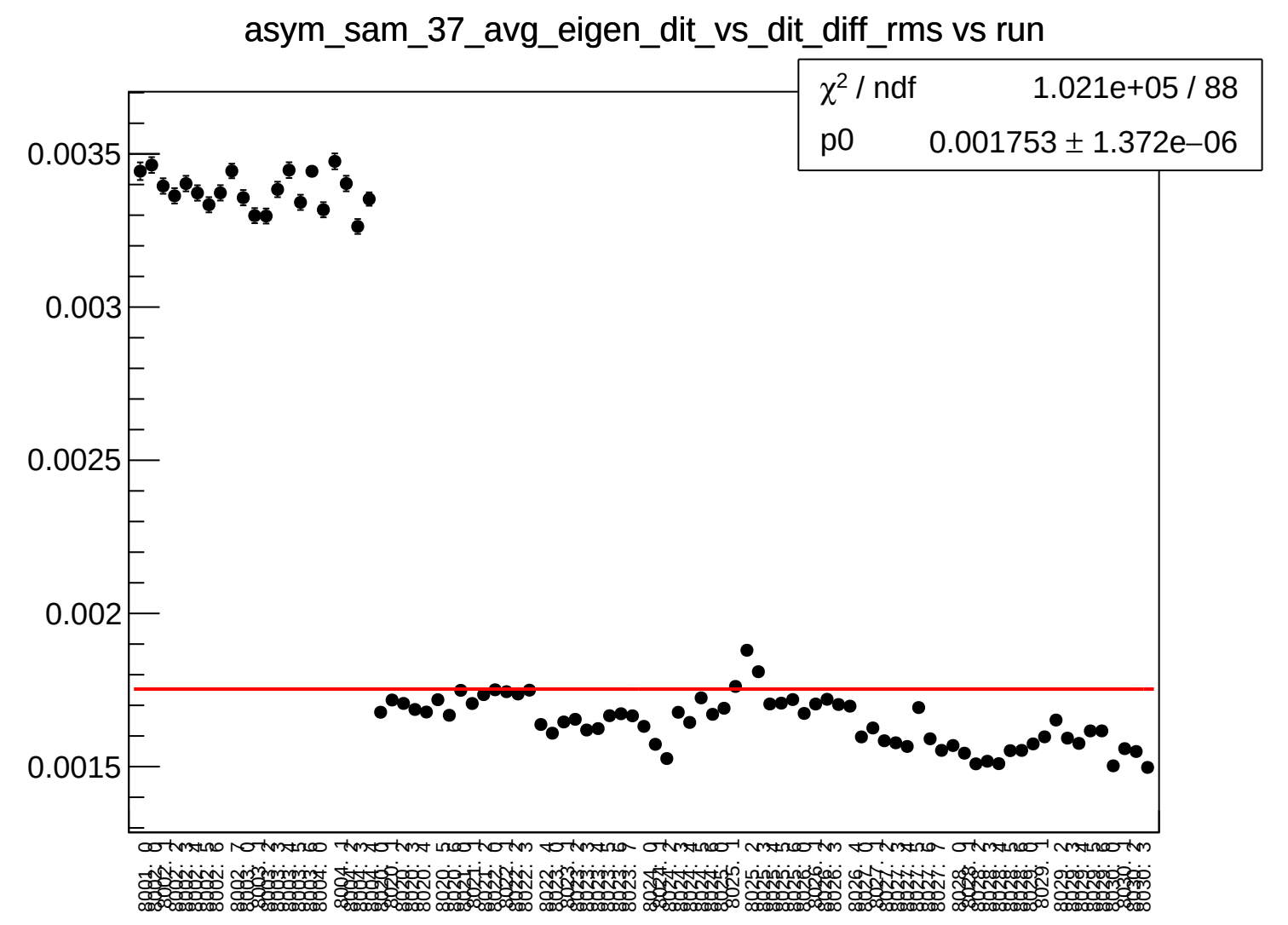

asym_sam_37_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.12 / 88
p0 0.0272 ± 0.05463
pull
Entries 89
Mean 86.68
Std Dev 0

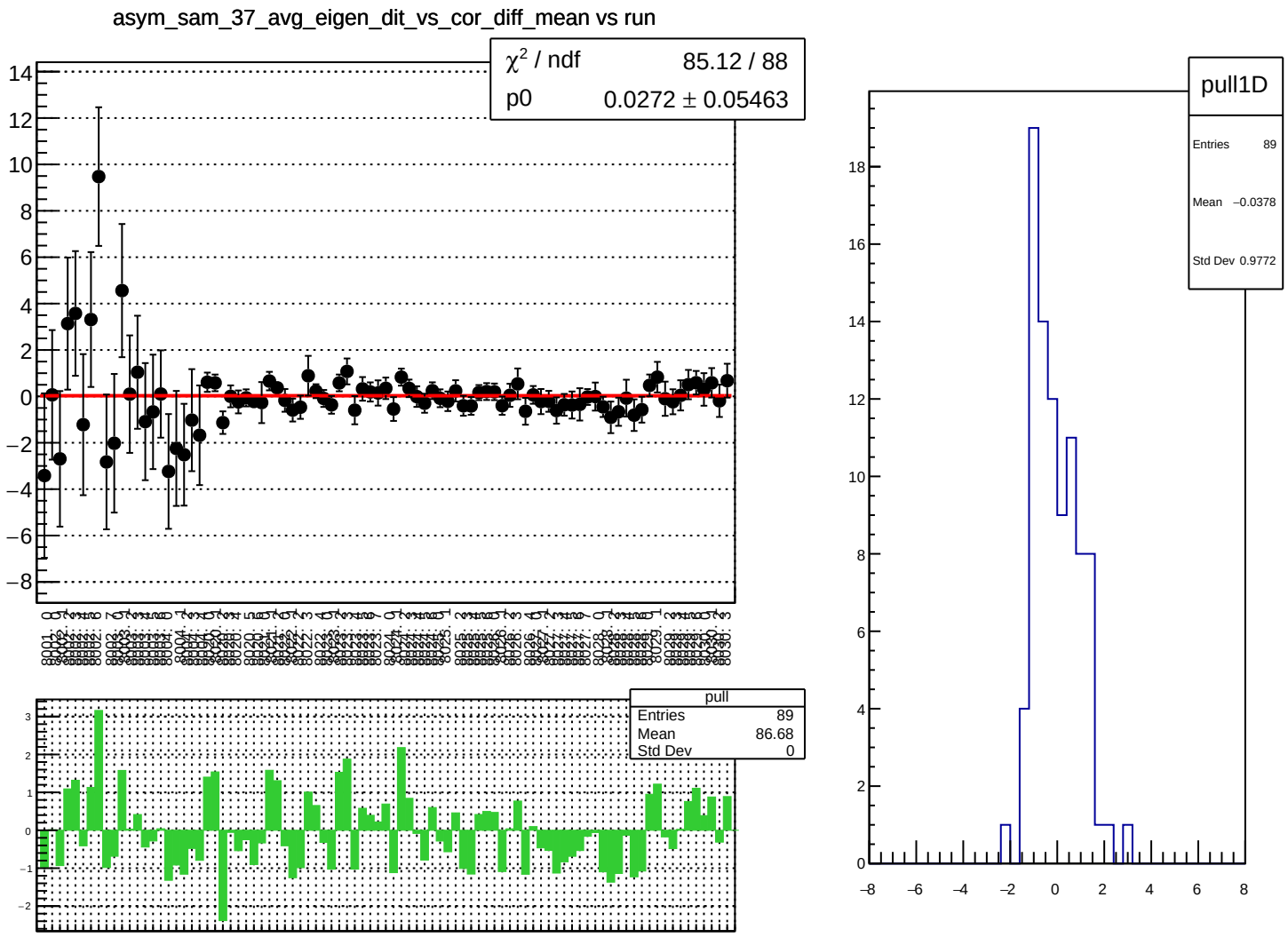

pull1D
Entries 89
Mean −0.0378
Std Dev 0.9772

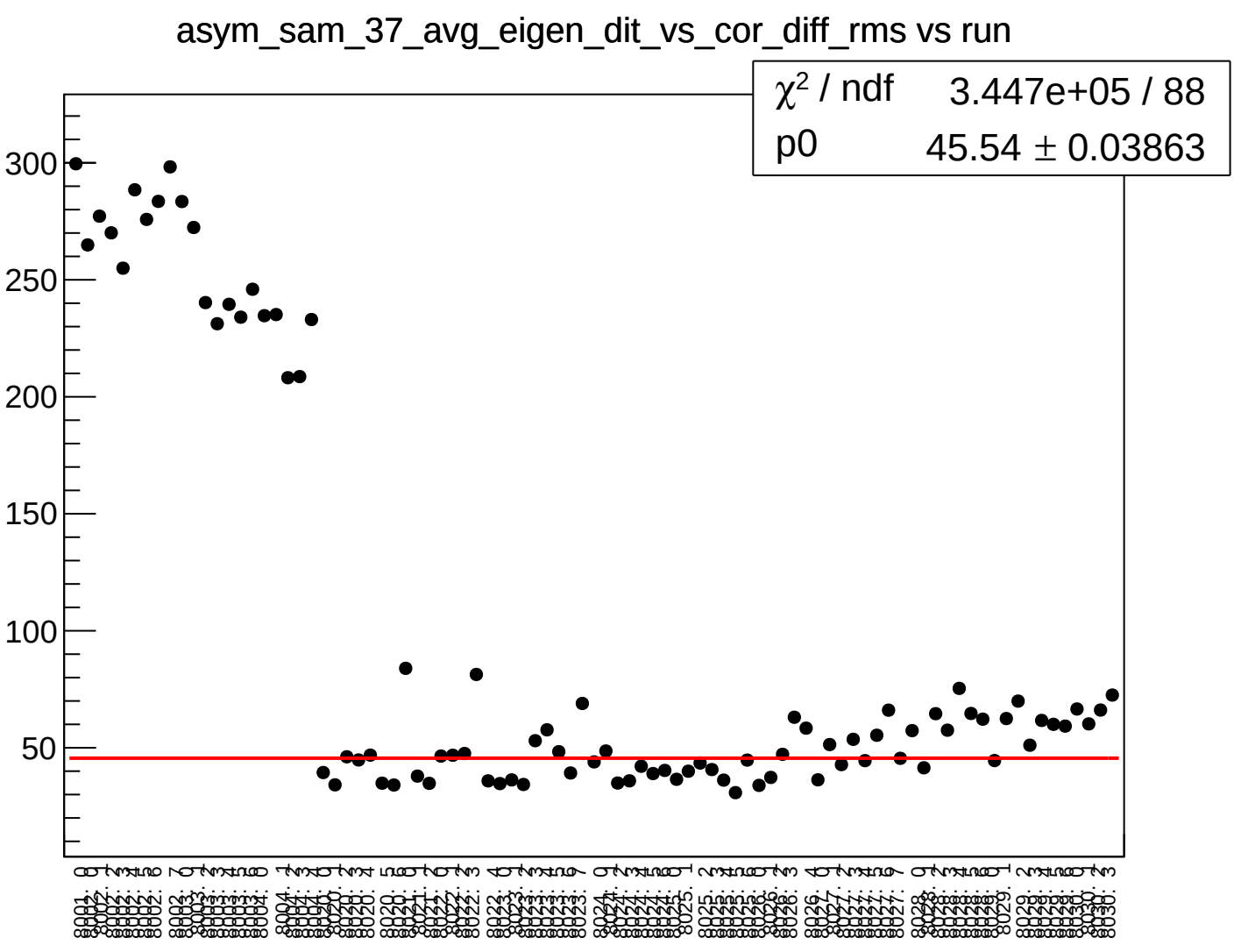

asym_sam_37_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.447e+05 / 88
p0 45.54 ± 0.03863
300
250
200
150
100
50

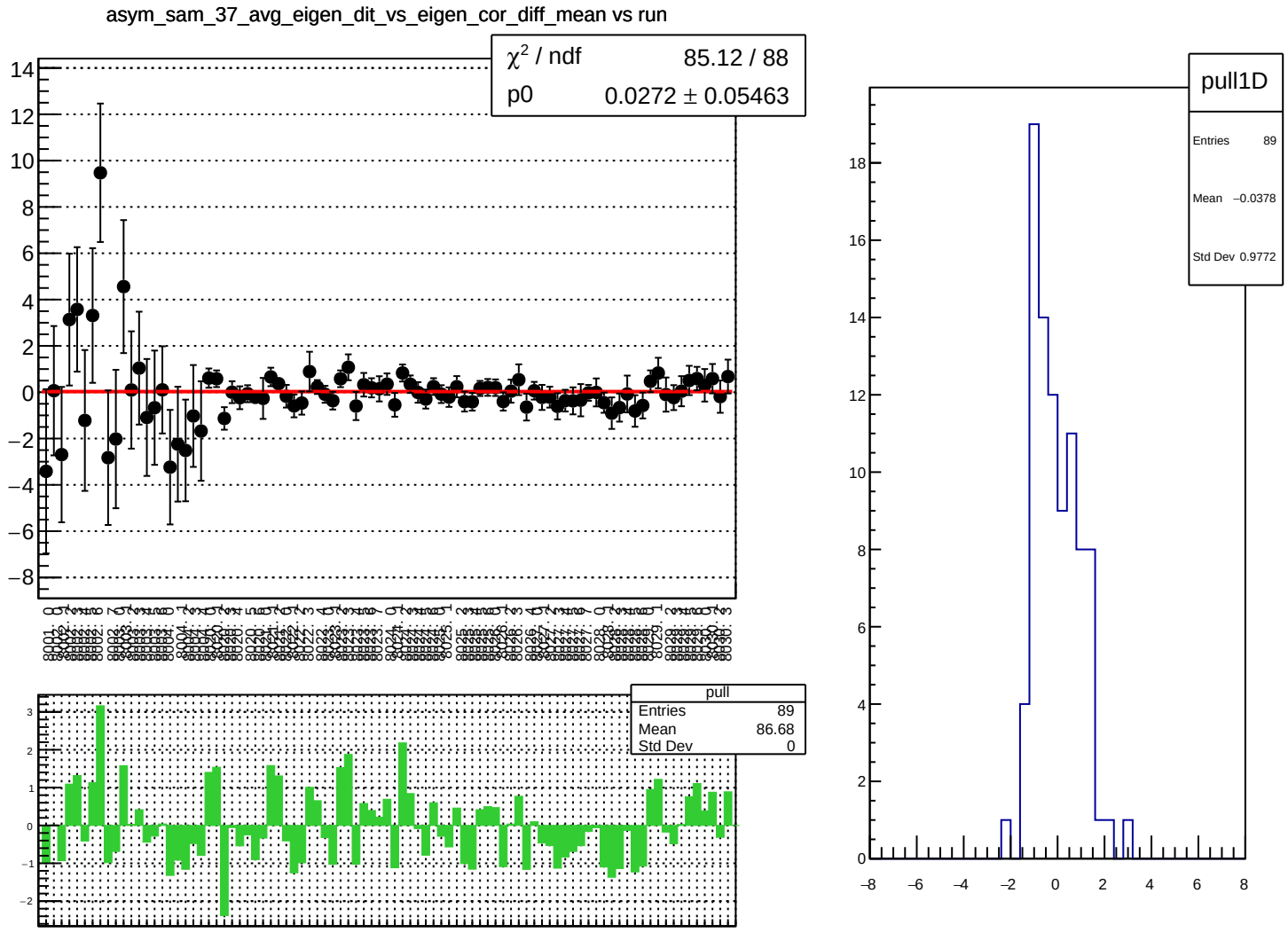

asym_sam_37_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.56 / 88
p0 −1.683e−07 ± 1.94e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 89
Mean 553.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

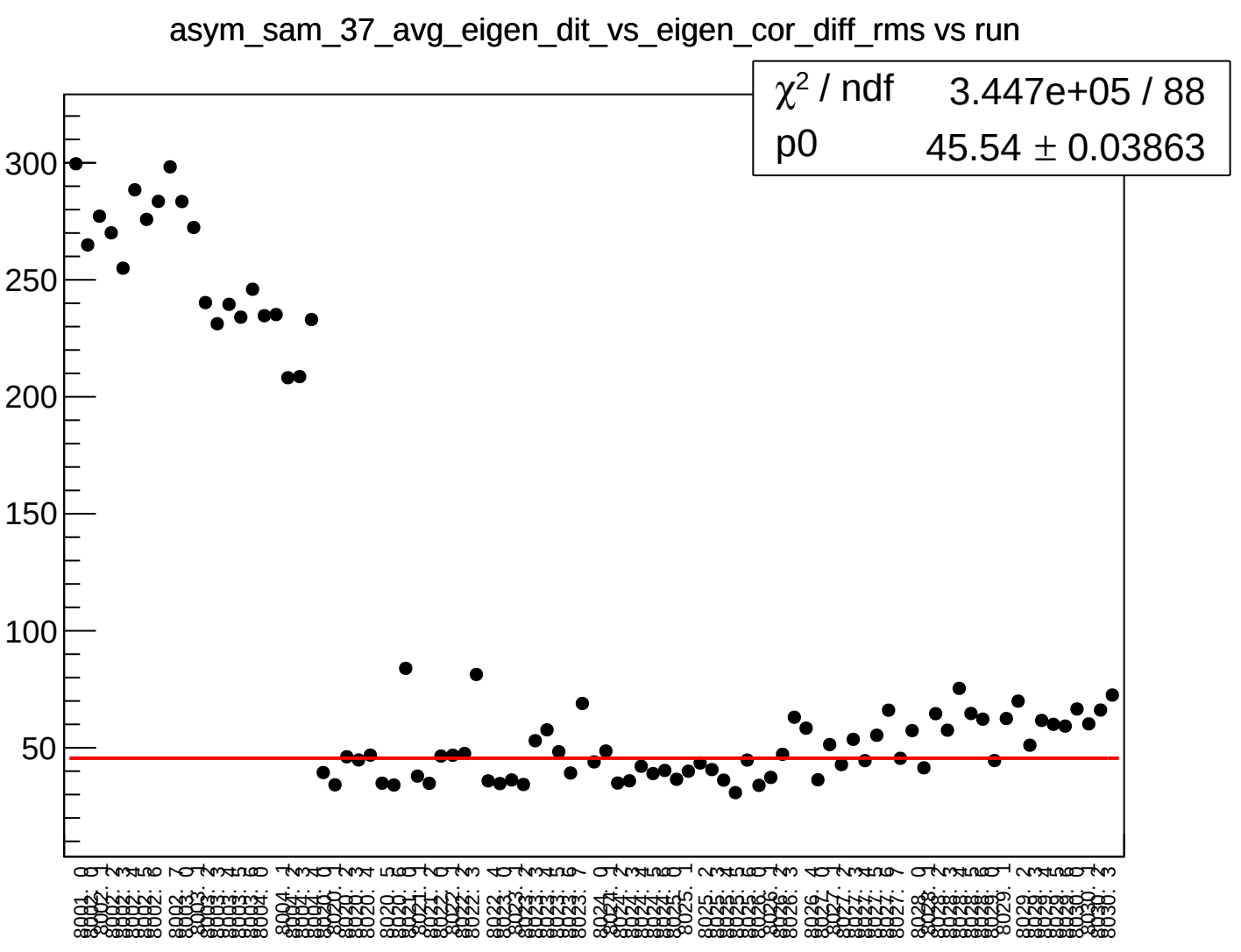

pull1D
Entries 89
Mean 0.005435
Std Dev 0.9747
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

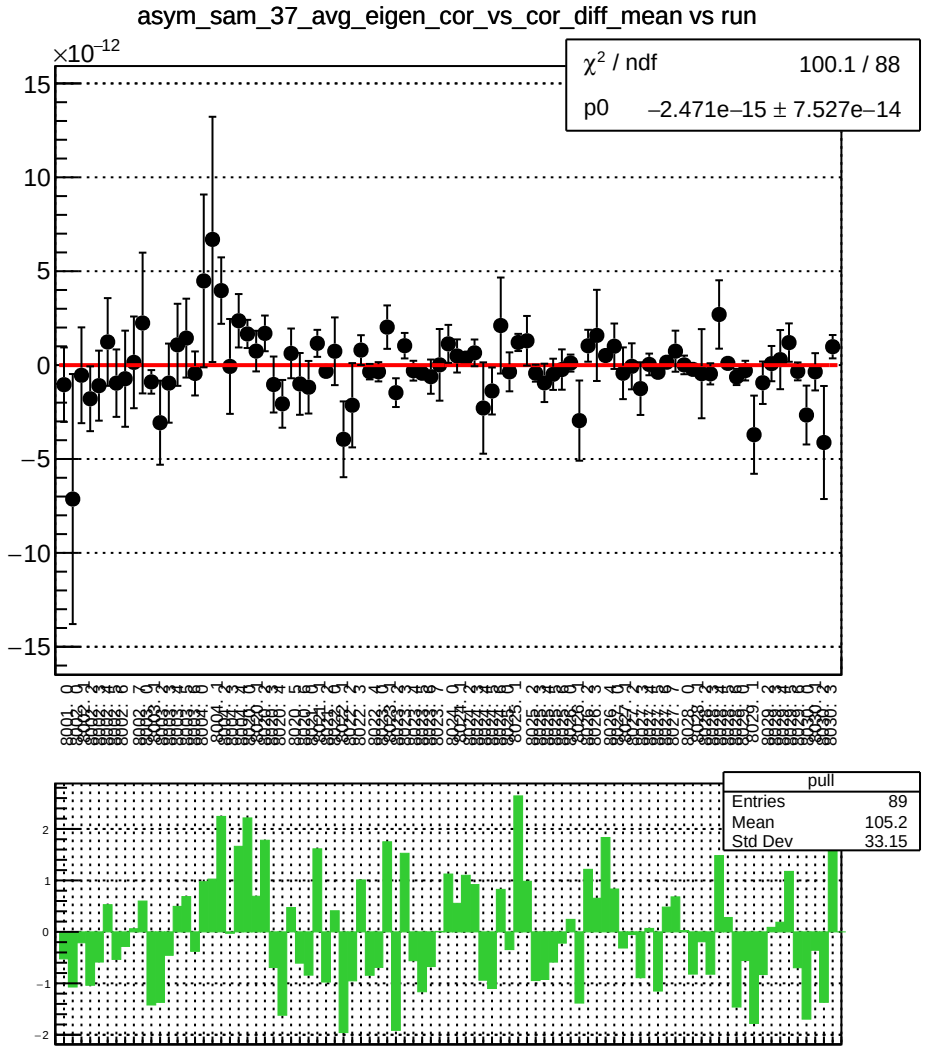

asym_sam_37_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.021e+05 / 88
p0 0.001753 ± 1.372e−06
0.0035
0.003
0.0025
0.002
0.0015

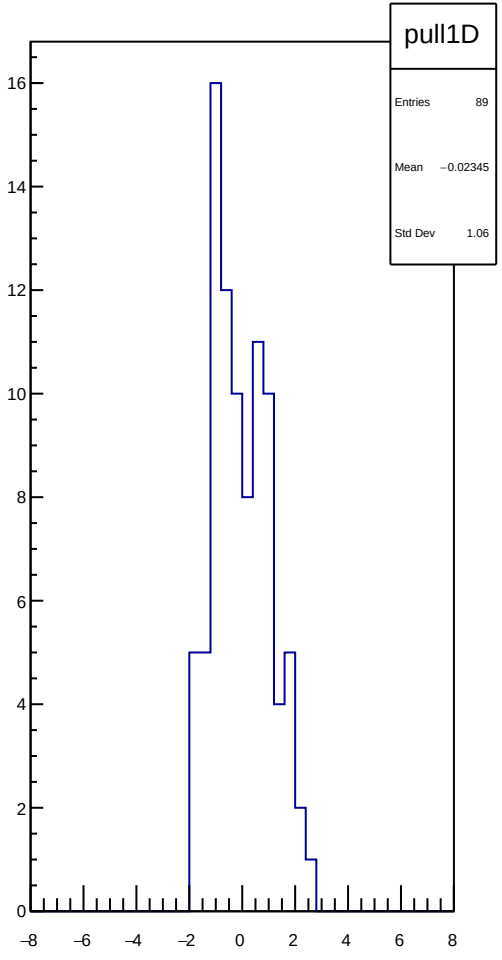

asym_sam_37_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.12 / 88
p0 0.0272 ± 0.05463
pull
Entries 89
Mean 86.68
Std Dev 0
pull1D
Entries 89
Mean −0.0378
Std Dev 0.9772

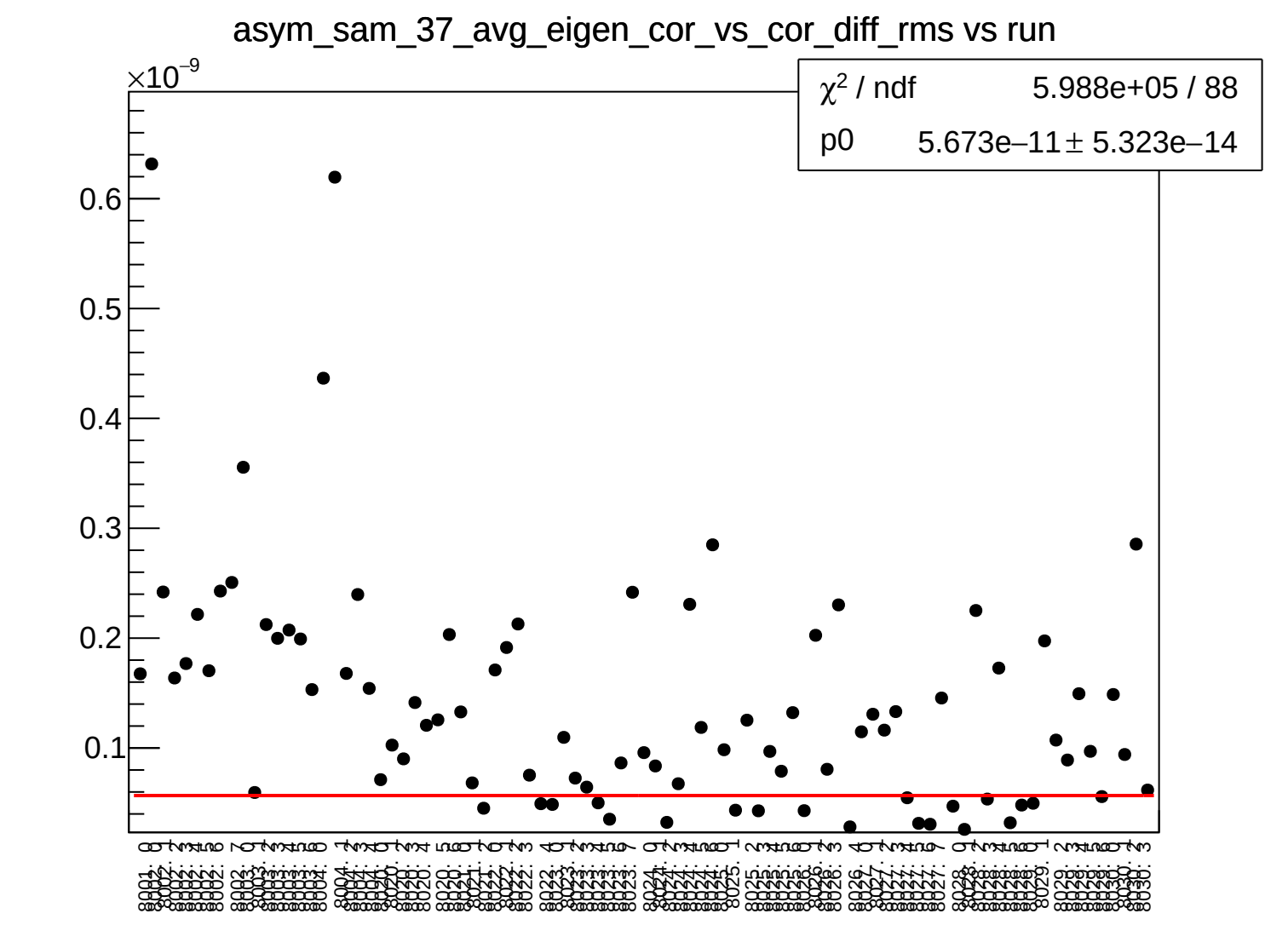

asym_sam_37_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.447e+05 / 88
p0 45.54 ± 0.03863
300
250
200
150
100
50

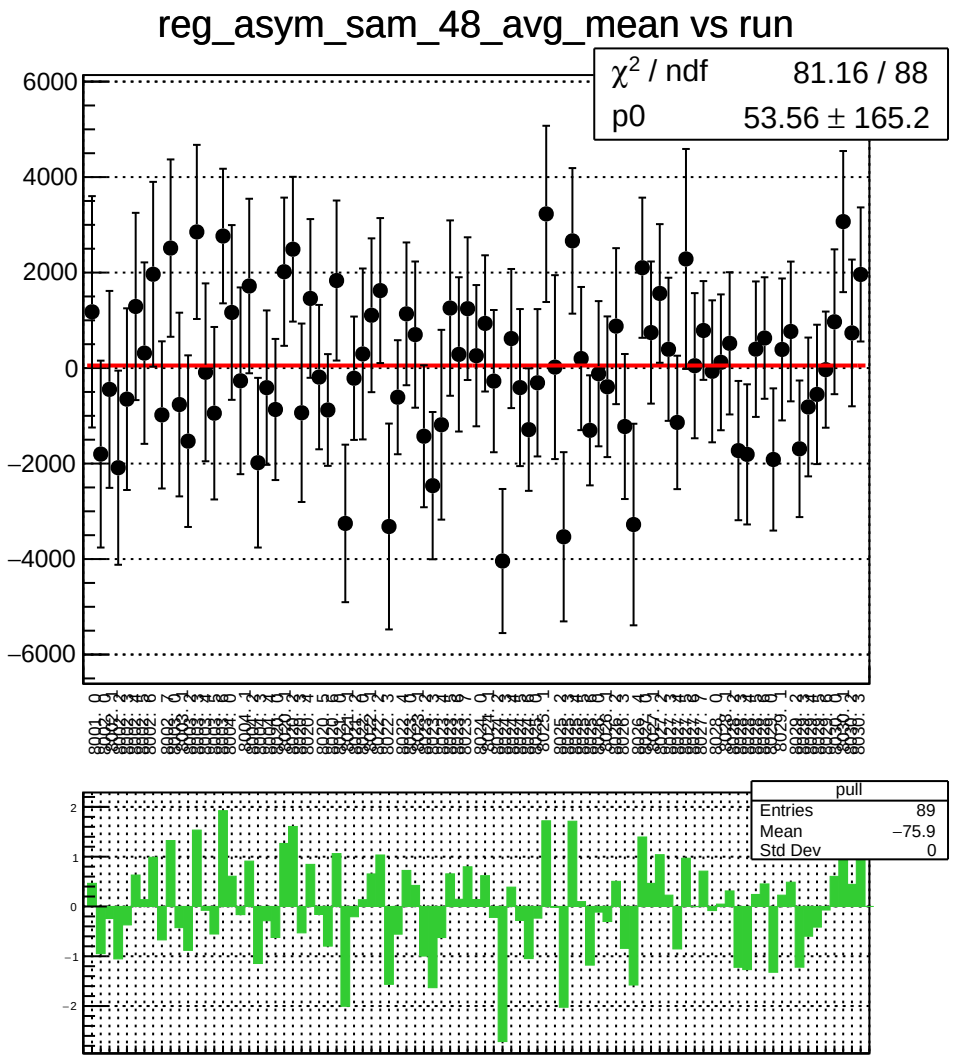

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.12 / 88
p0 0.0272 ± 0.05463
pull
Entries 89
Mean 86.68
Std Dev 0
pull1D
Entries 89
Mean −0.0378
Std Dev 0.9772

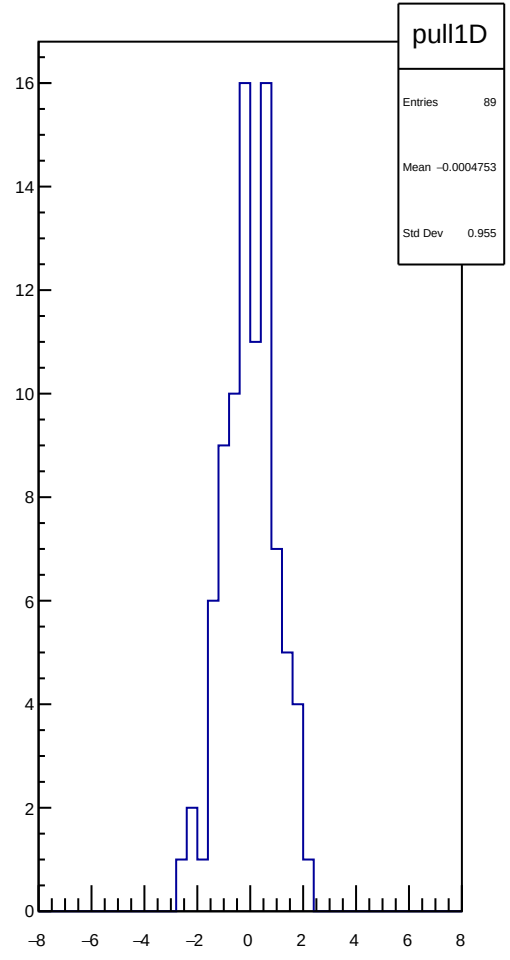

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.447e+05 / 88
p0 45.54 ± 0.03863
300
250
200
150
100
50

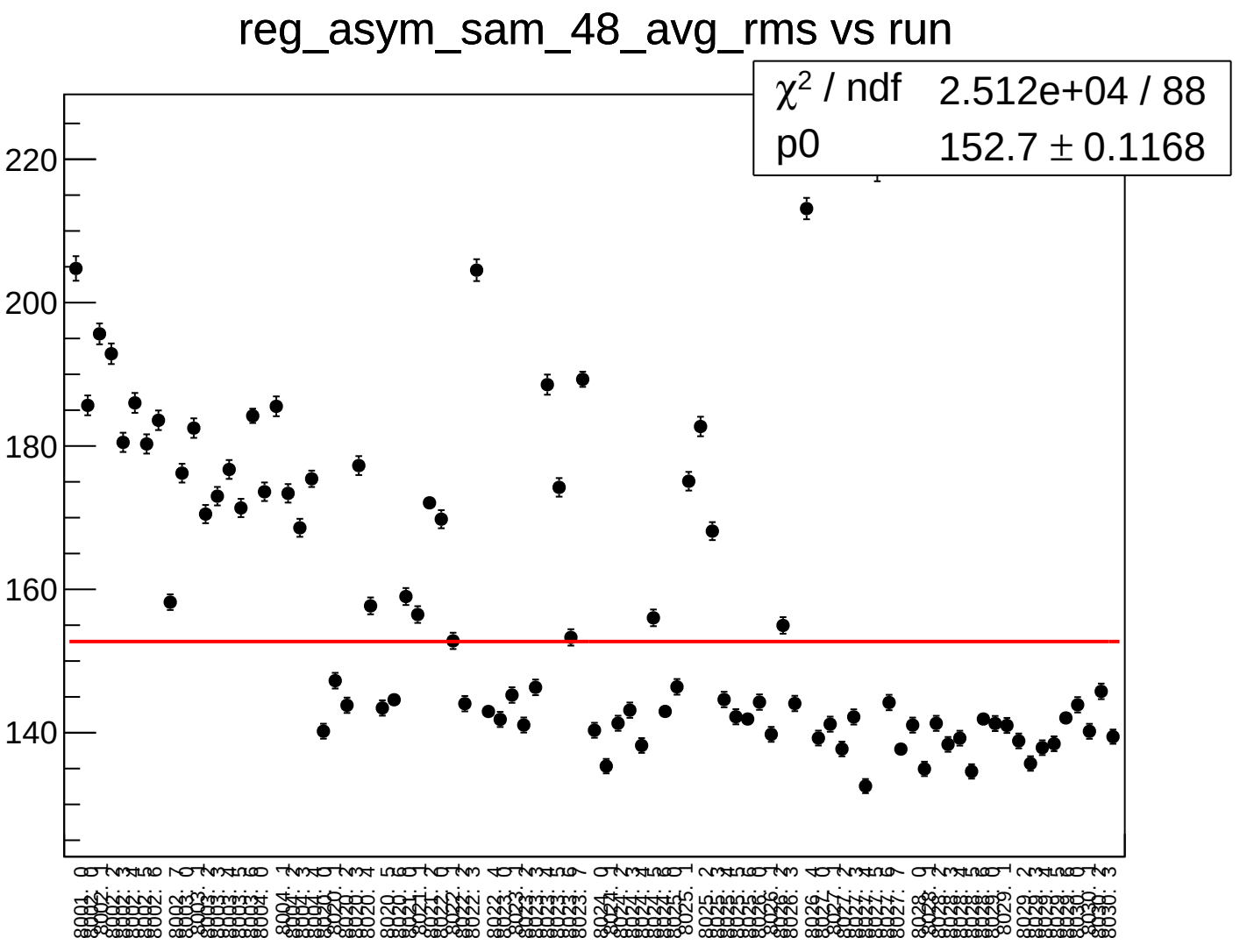

asym_sam_37_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 100.1 / 88
p0 −2.471e−15 ± 7.527e−14
pull
Entries 89
Mean 105.2
Std Dev 33.15

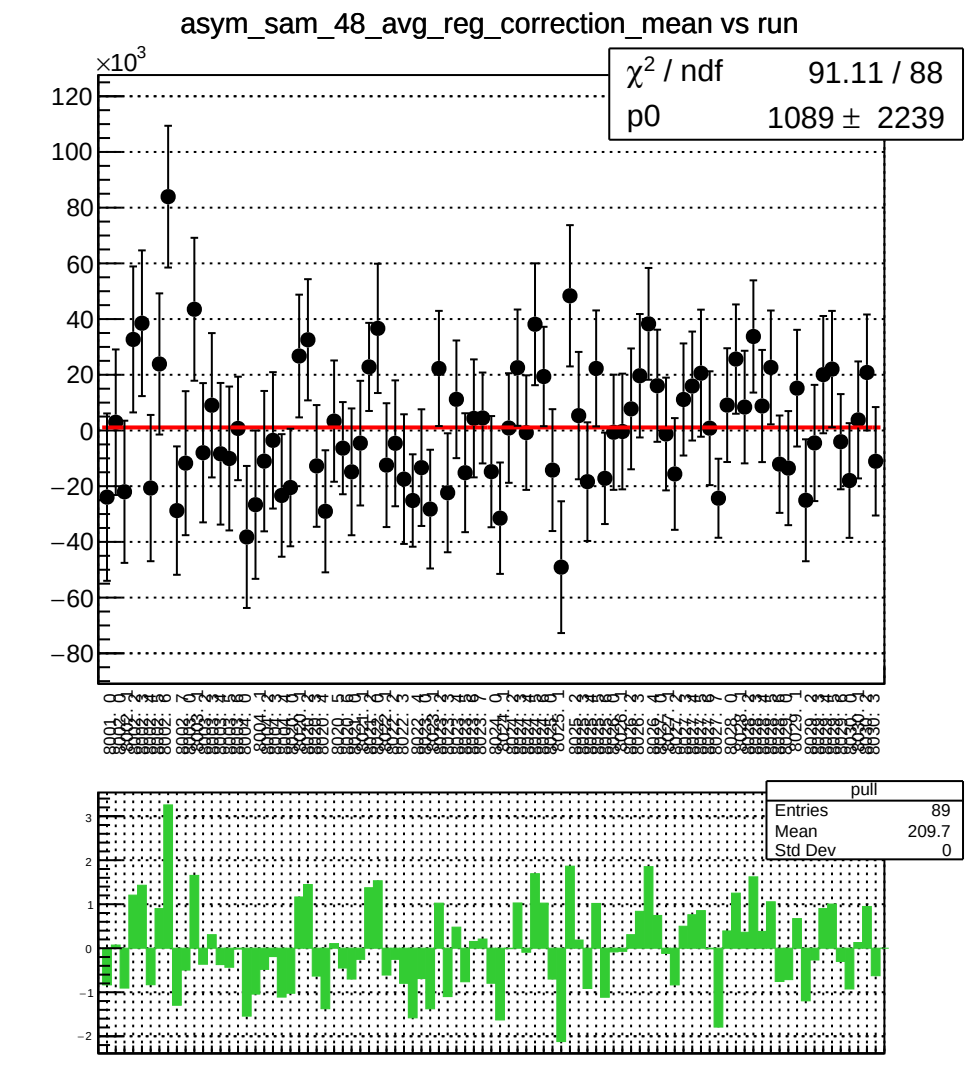

pull1D
Entries 89
Mean −0.02345
Std Dev 1.06

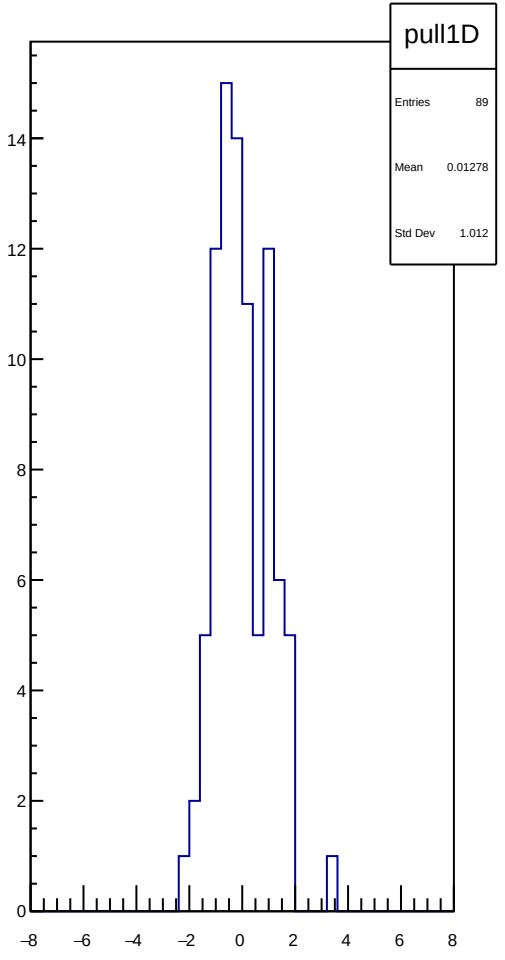

asym_sam_37_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.988e+05 / 88
p0 5.673e−11 ± 5.323e−14
0.6
0.5
0.4
0.3
0.2
0.1

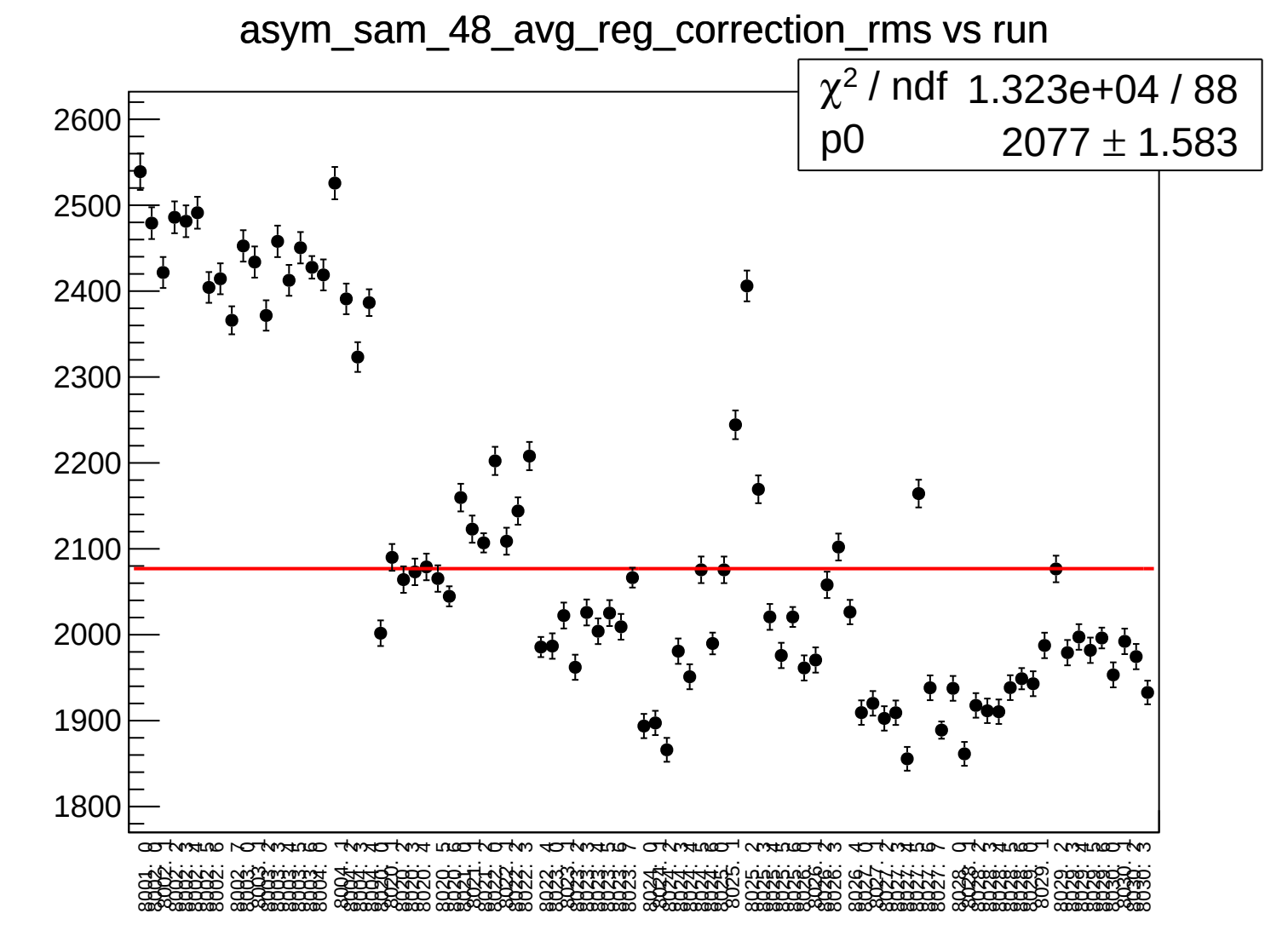

reg_asym_sam_48_avg_mean vs run
χ² / ndf 81.16 / 88
p0 53.56 ± 165.2
pull
Entries 89
Mean −75.9
Std Dev 0

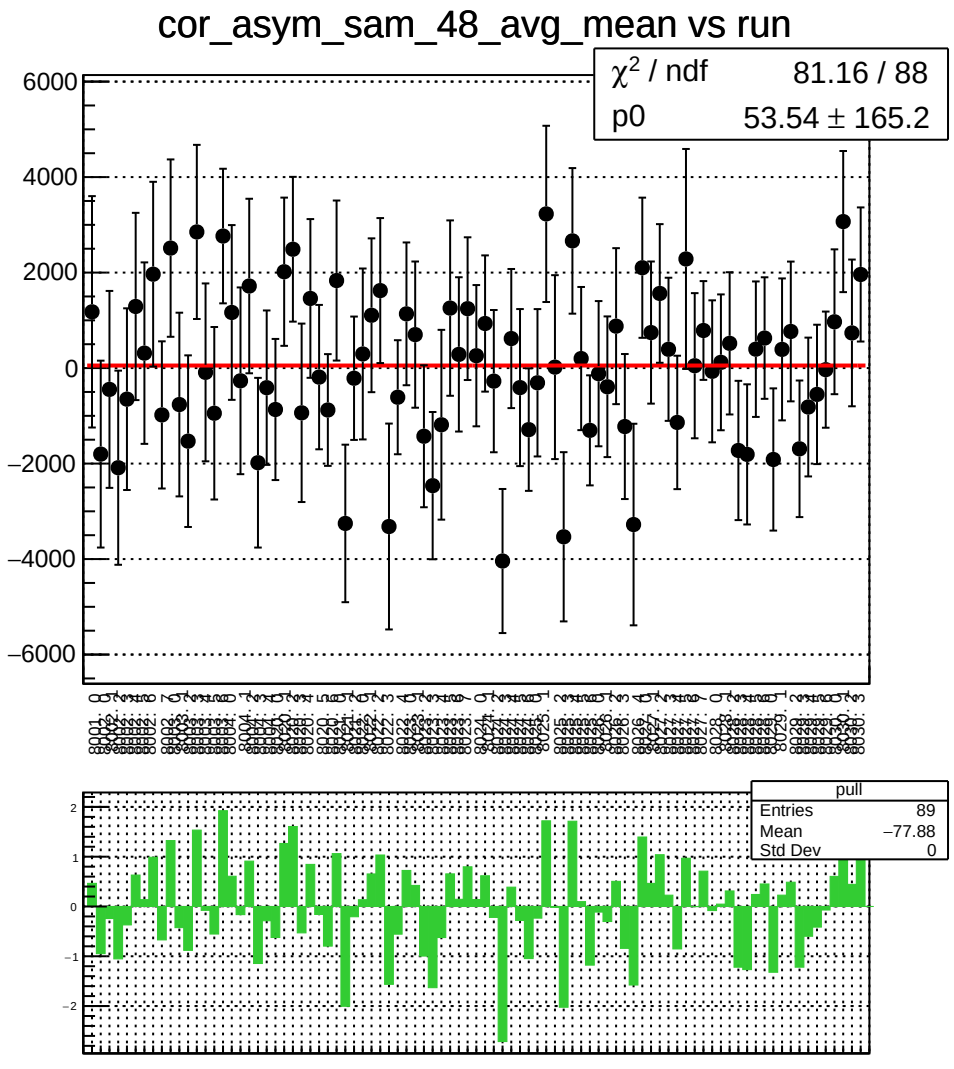

pull1D
Entries 89
Mean −0.0004753
Std Dev 0.955

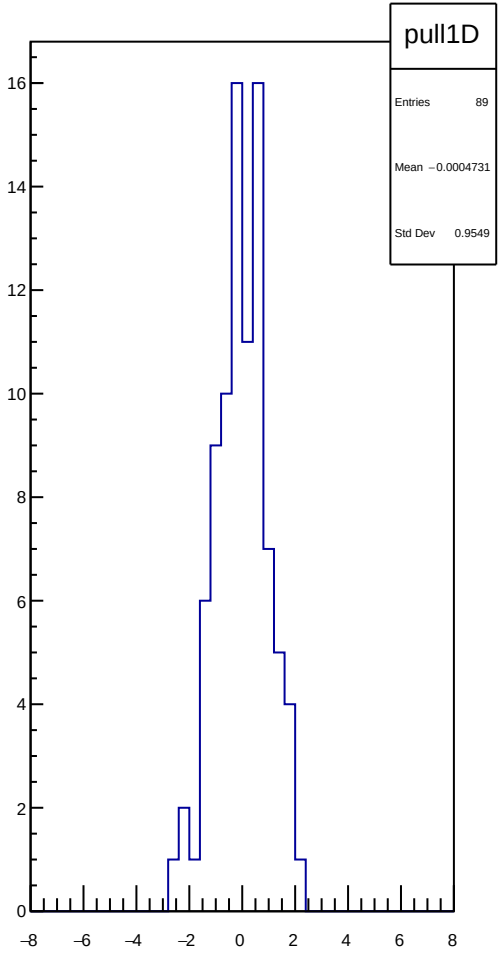

reg_asym_sam_48_avg_rms vs run
χ² / ndf 2.512e+04 / 88
p0 152.7 ± 0.1168
220
200
180
160
140

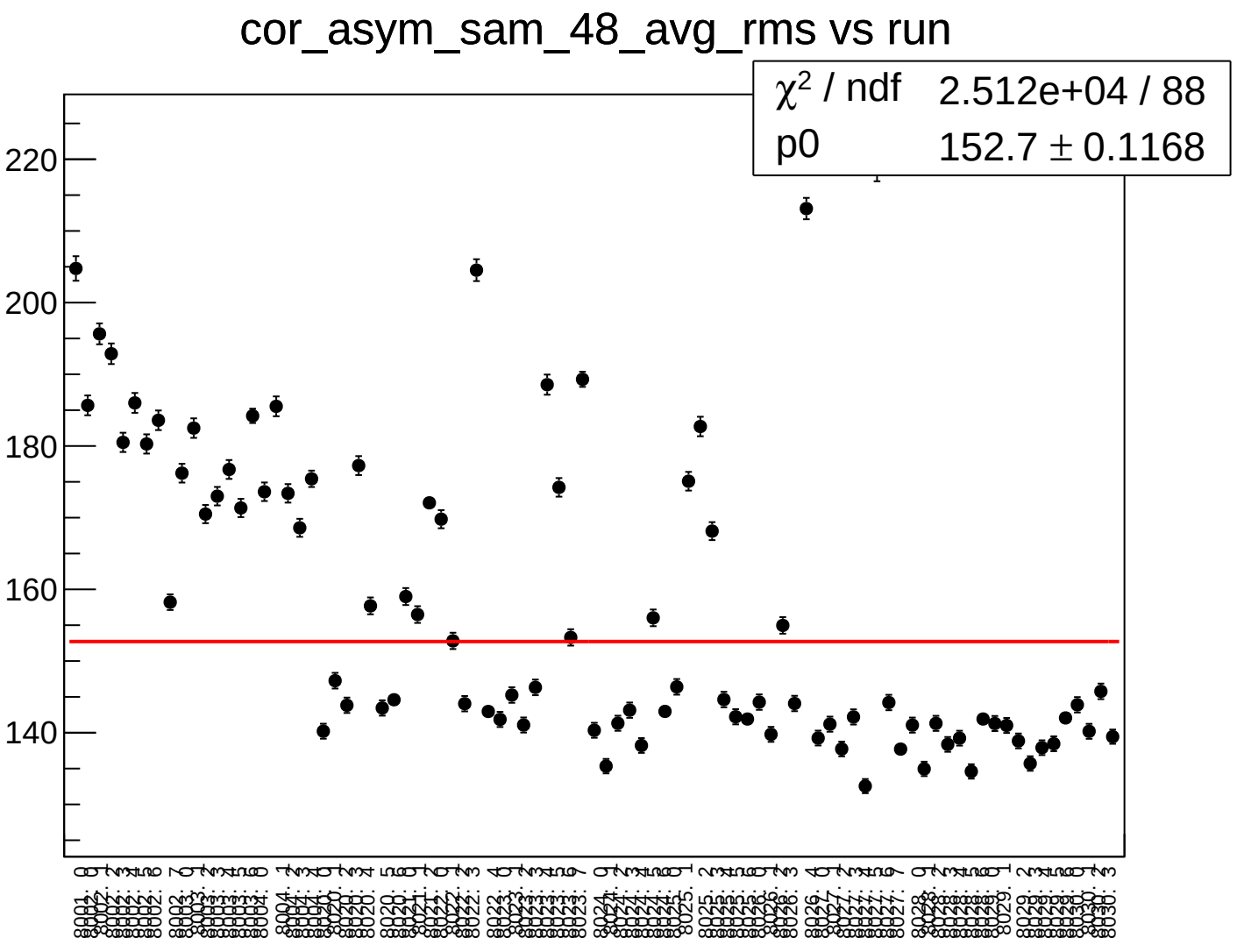

asym_sam_48_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 91.11 / 88
p0 1089 ± 2239
pull
Entries 89
Mean 209.7
Std Dev 0

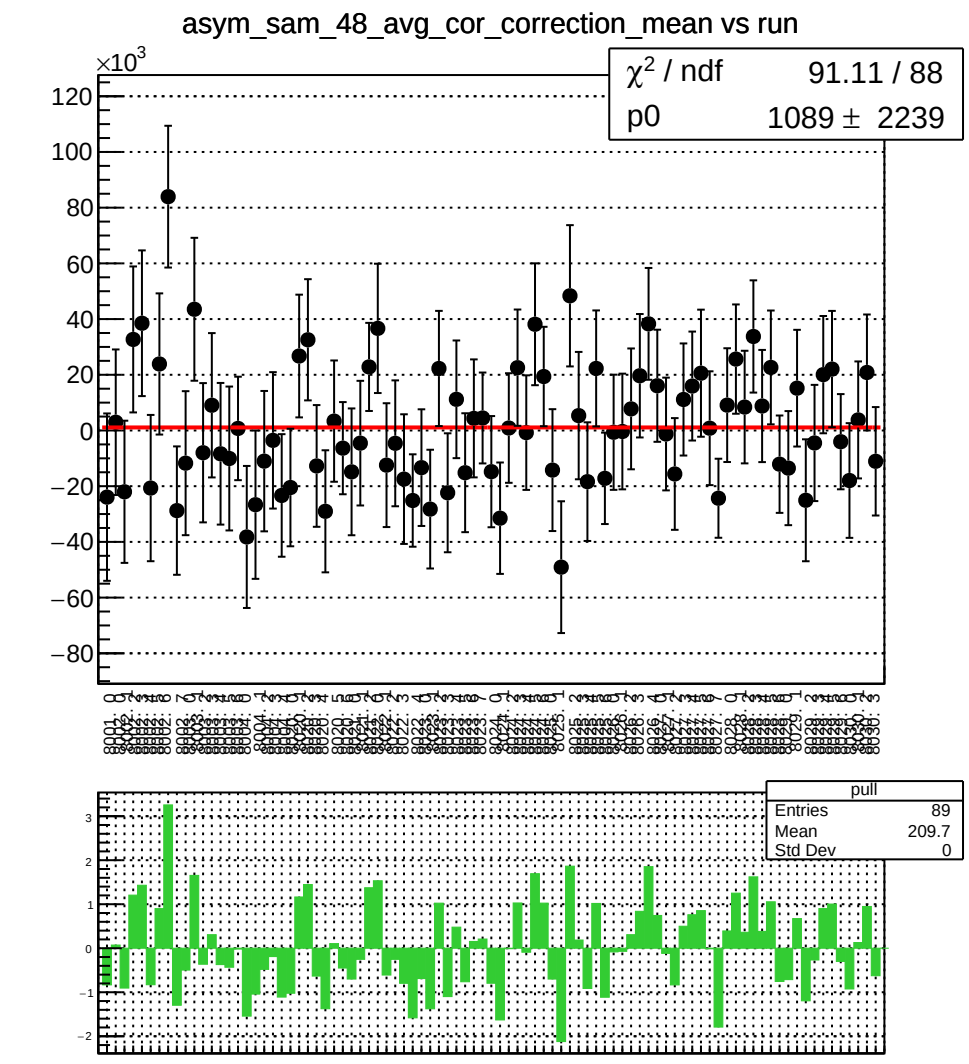

pull1D
Entries 89
Mean 0.01278
Std Dev 1.012

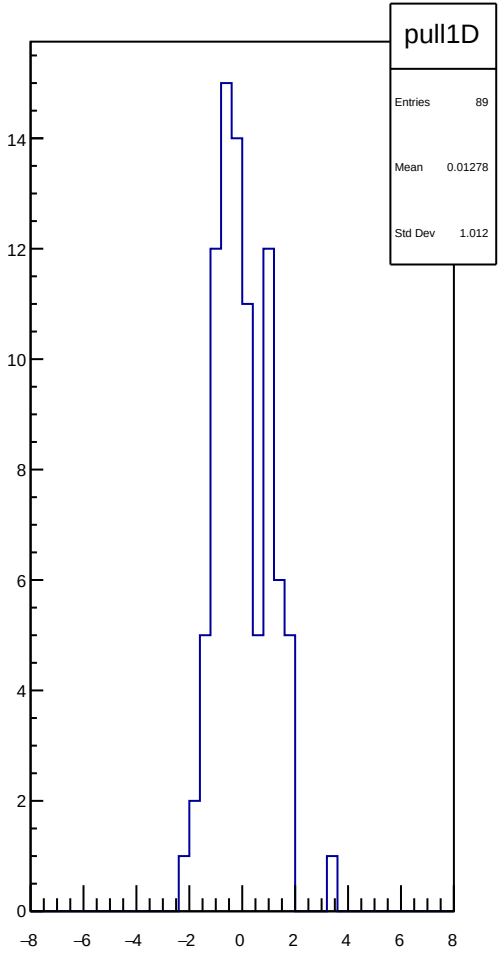

asym_sam_48_avg_reg_correction_rms vs run
χ² / ndf 1.323e+04 / 88
p0 2077 ± 1.583
2600
2500
2400
2300
2200
2100
2000
1900
1800

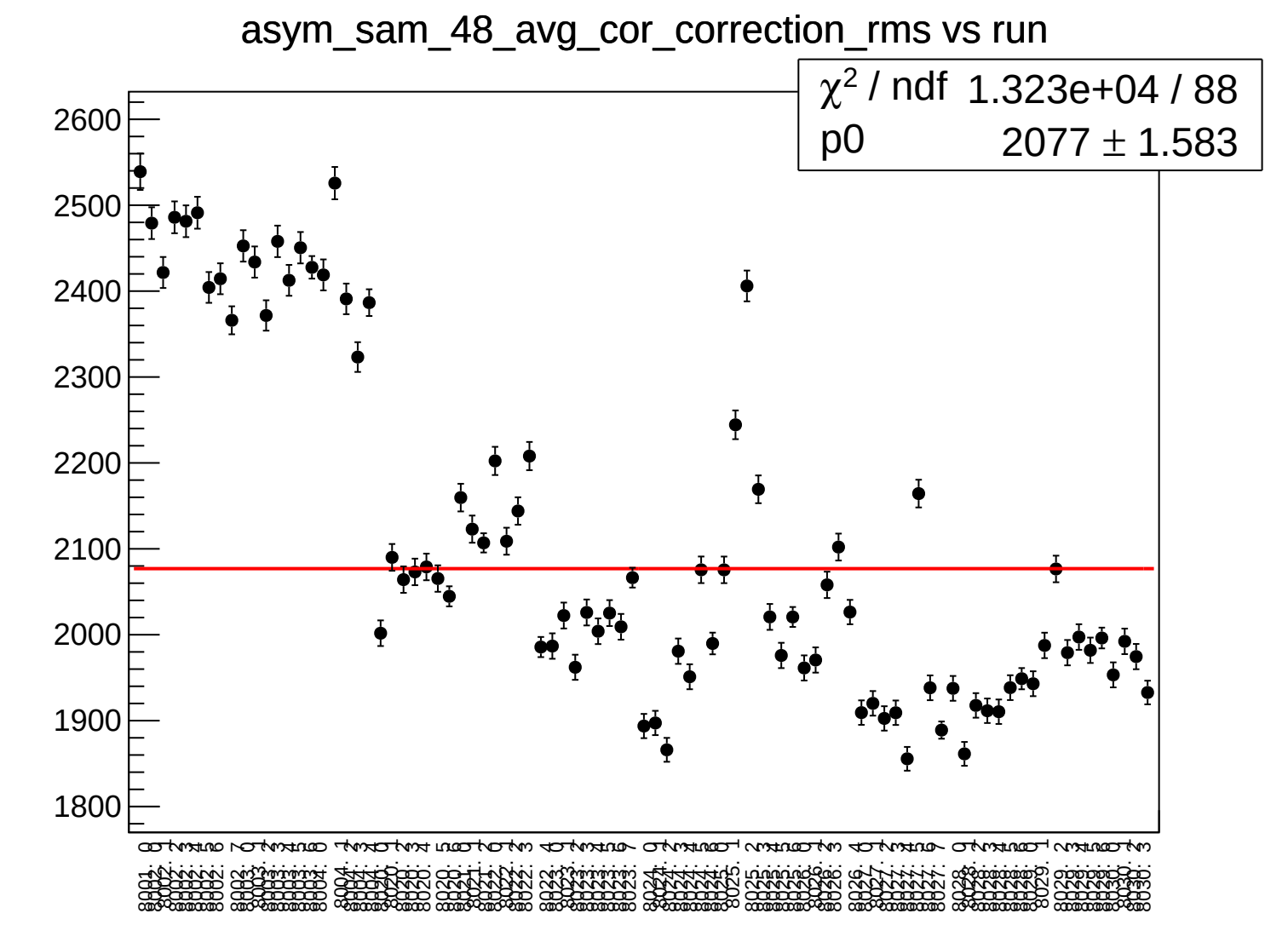

cor_asym_sam_48_avg_mean vs run
χ² / ndf 81.16 / 88
p0 53.54 ± 165.2
pull
Entries 89
Mean −77.88
Std Dev 0

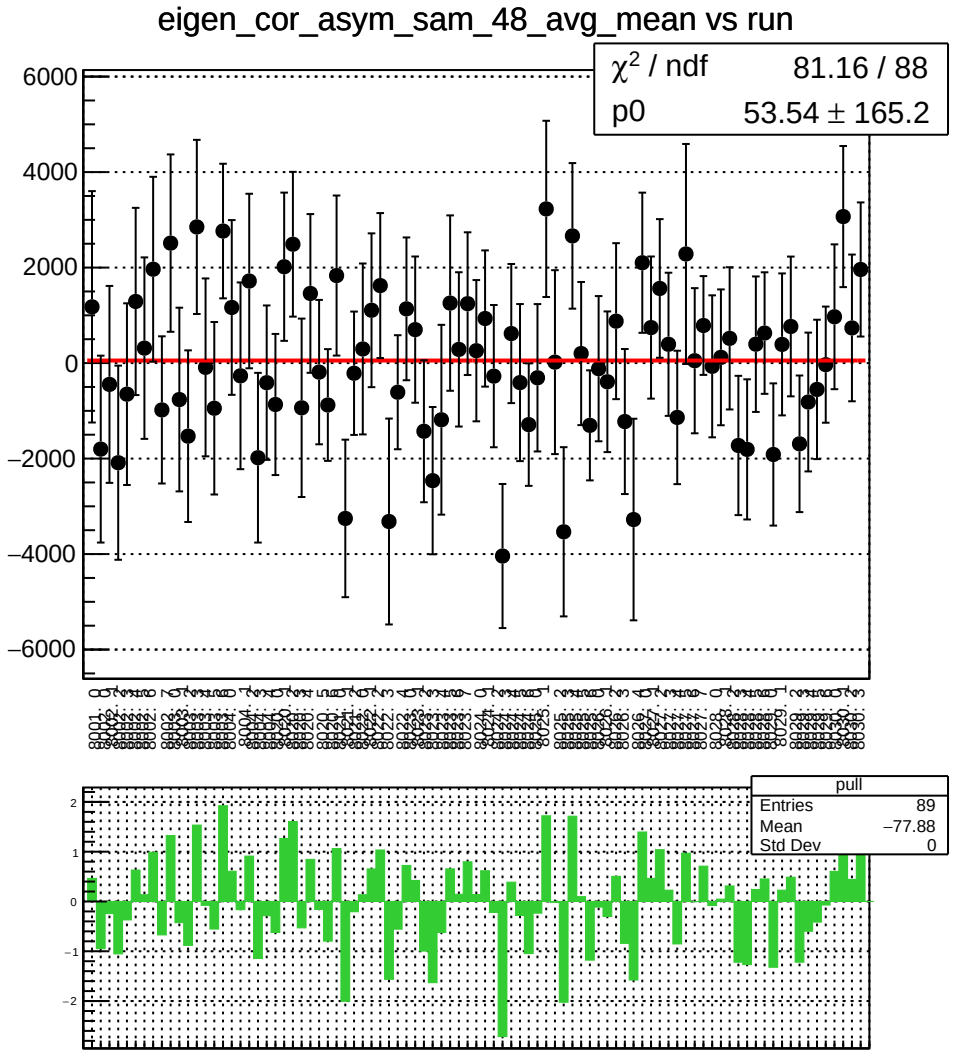

pull1D
Entries 89
Mean −0.0004731
Std Dev 0.9549

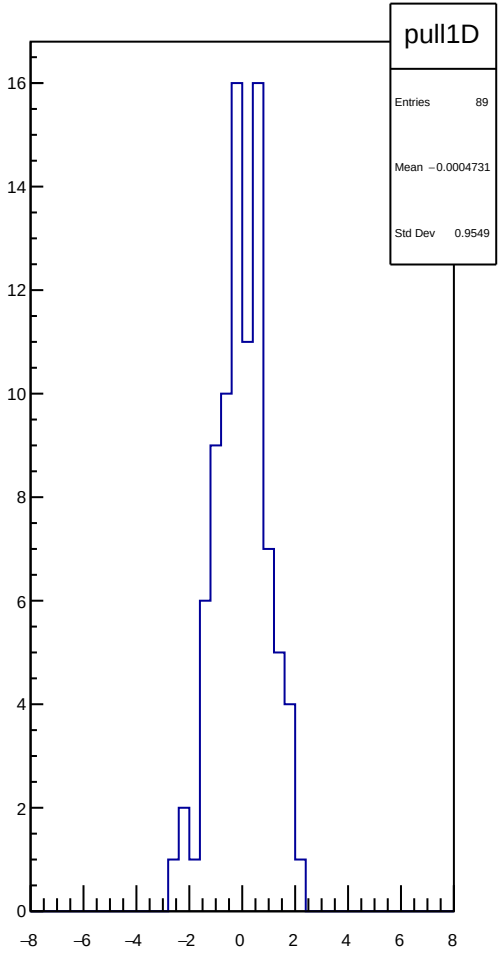

cor_asym_sam_48_avg_rms vs run
χ^2 / ndf 2.512e+04 / 88
p0 152.7 ± 0.1168
220
200
180
160
140

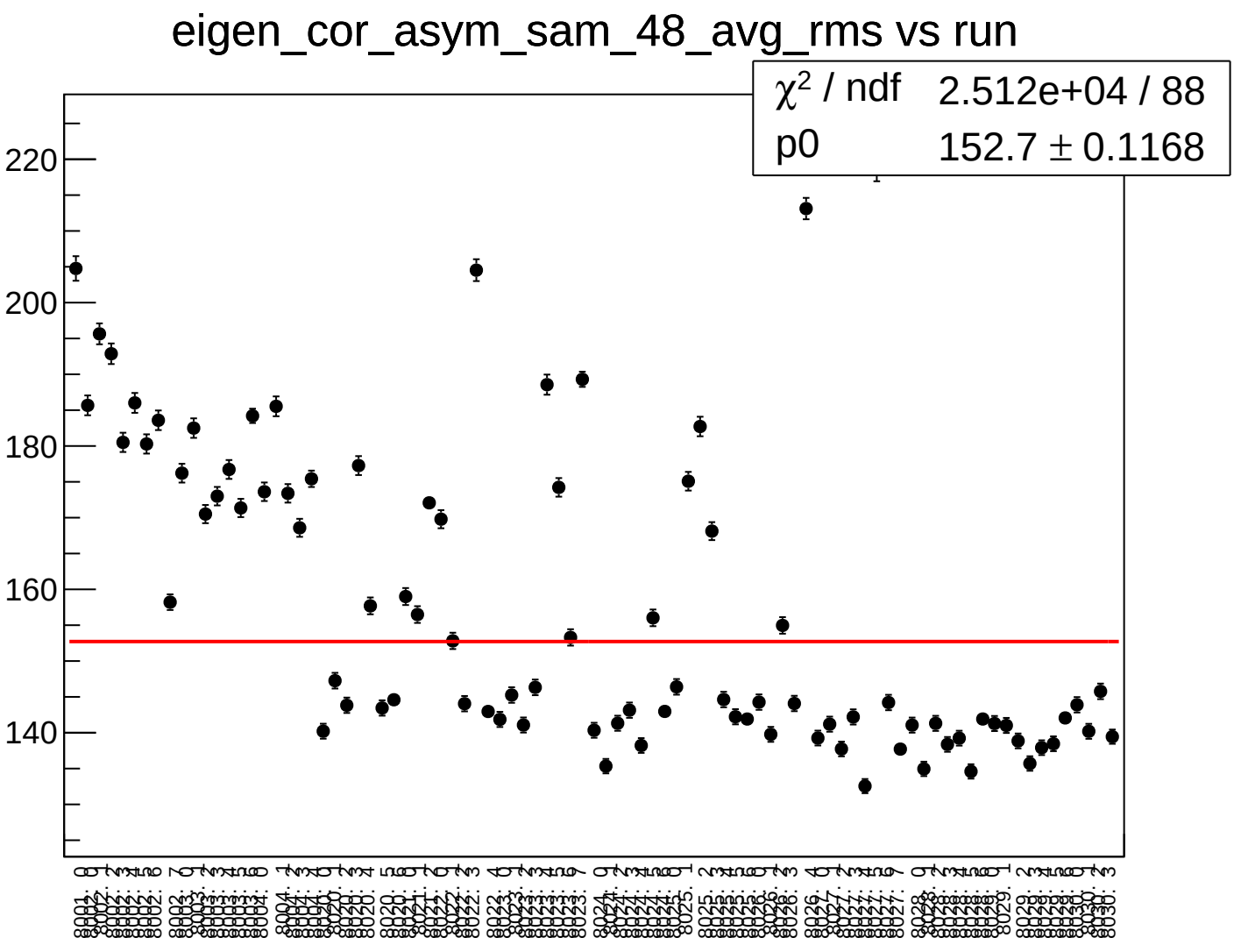

asym_sam_48_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 91.11 / 88
p0 1089 ± 2239
pull
Entries 89
Mean 209.7
Std Dev 0

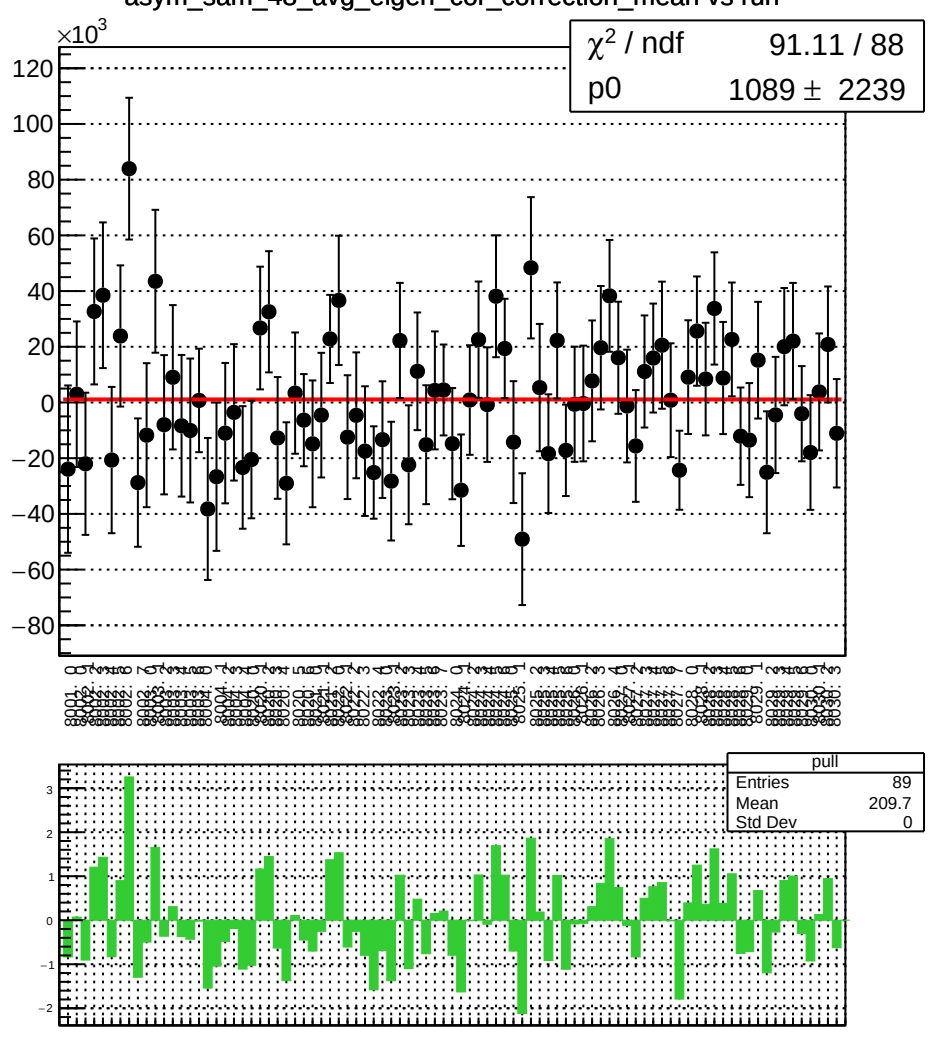

pull1D
Entries 89
Mean 0.01278
Std Dev 1.012

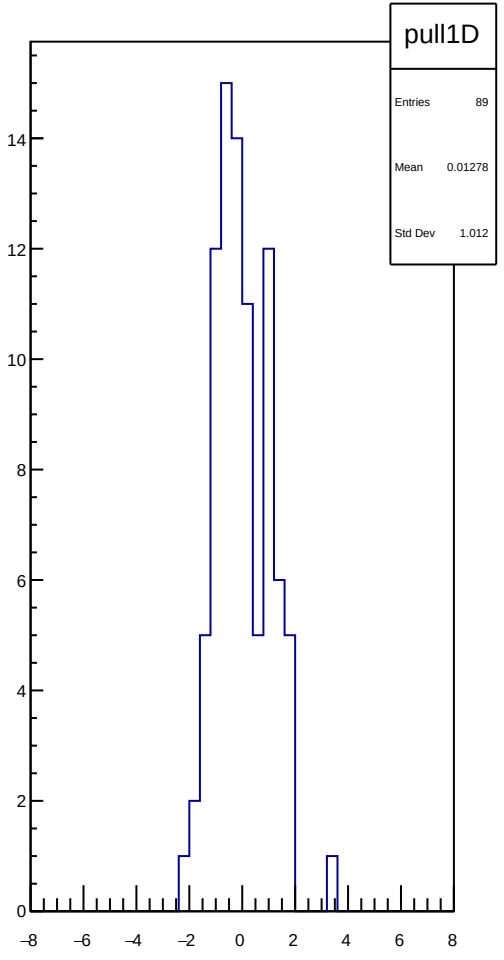

asym_sam_48_avg_cor_correction_rms vs run
χ² / ndf 1.323e+04 / 88
p0 2077 ± 1.583
2600
2500
2400
2300
2200
2100
2000
1900
1800

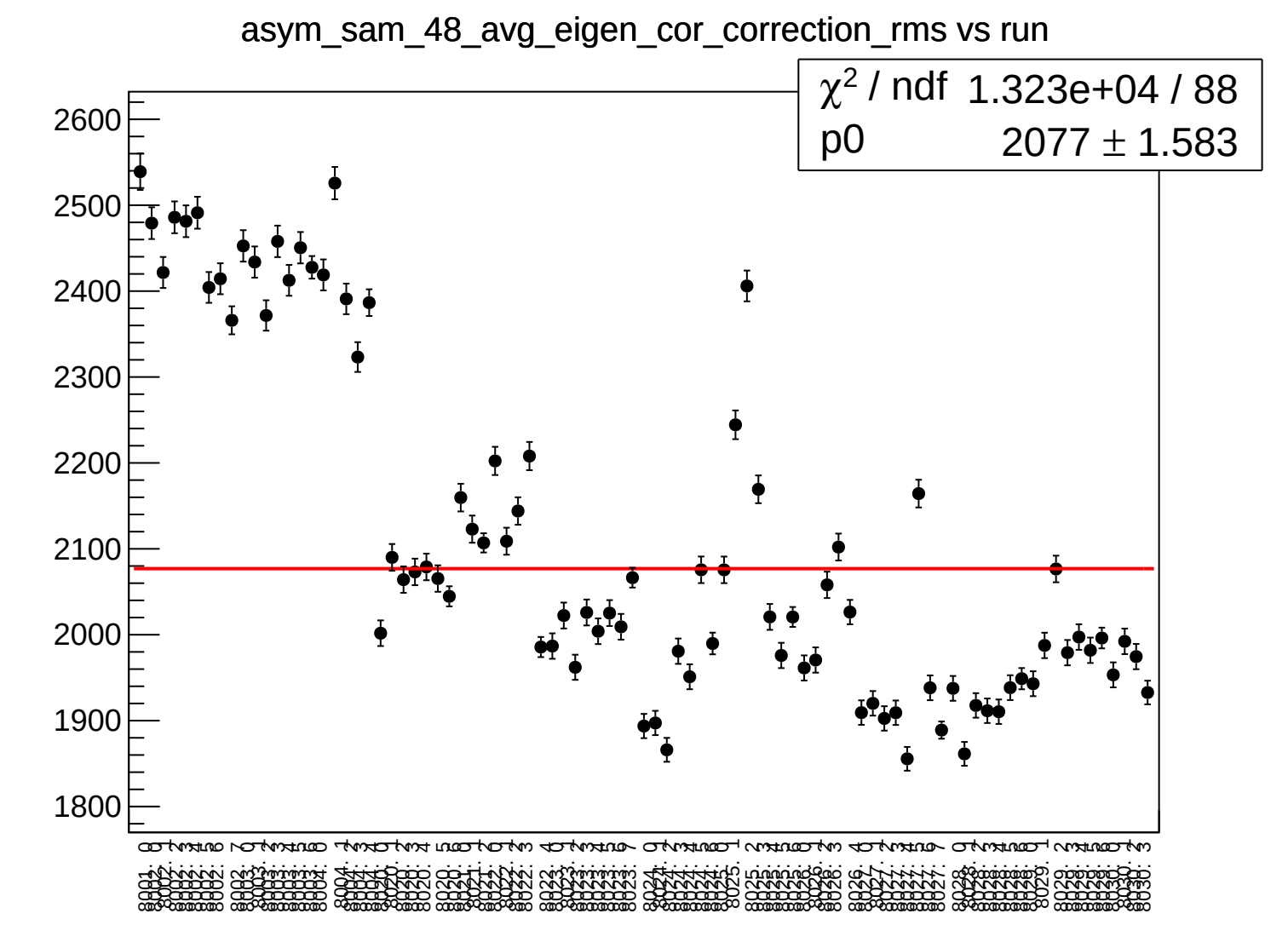

eigen_cor_asym_sam_48_avg_mean vs run
χ^2 / ndf 81.16 / 88
p0 53.54 ± 165.2
pull
Entries 89
Mean −77.88
Std Dev 0

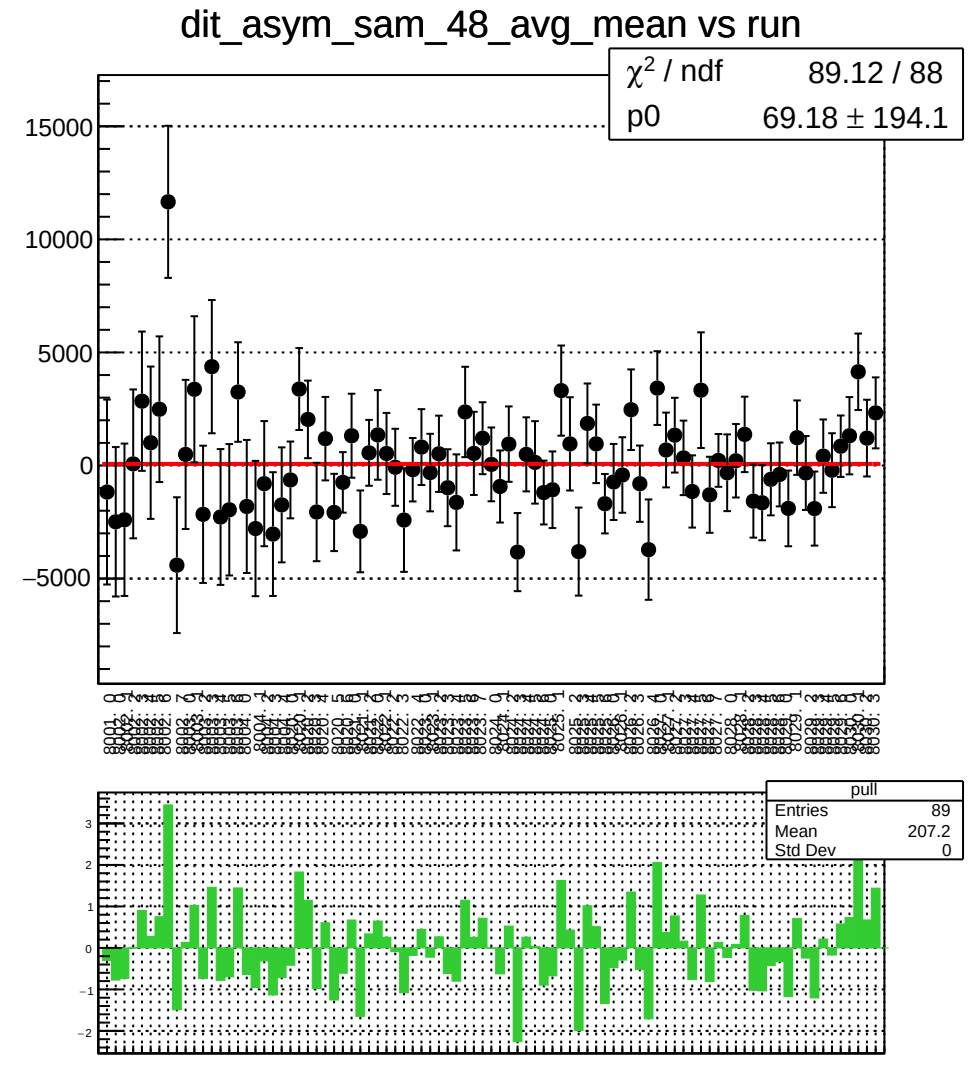

pull1D
Entries 89
Mean −0.0004731
Std Dev 0.9549

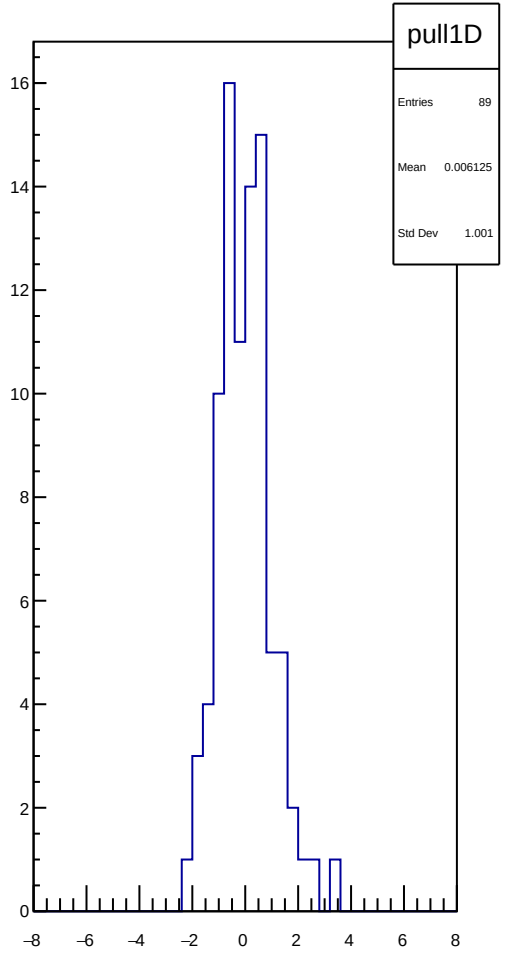

eigen_cor_asym_sam_48_avg_rms vs run
χ² / ndf 2.512e+04 / 88
p0 152.7 ± 0.1168
220
200
180
160
140

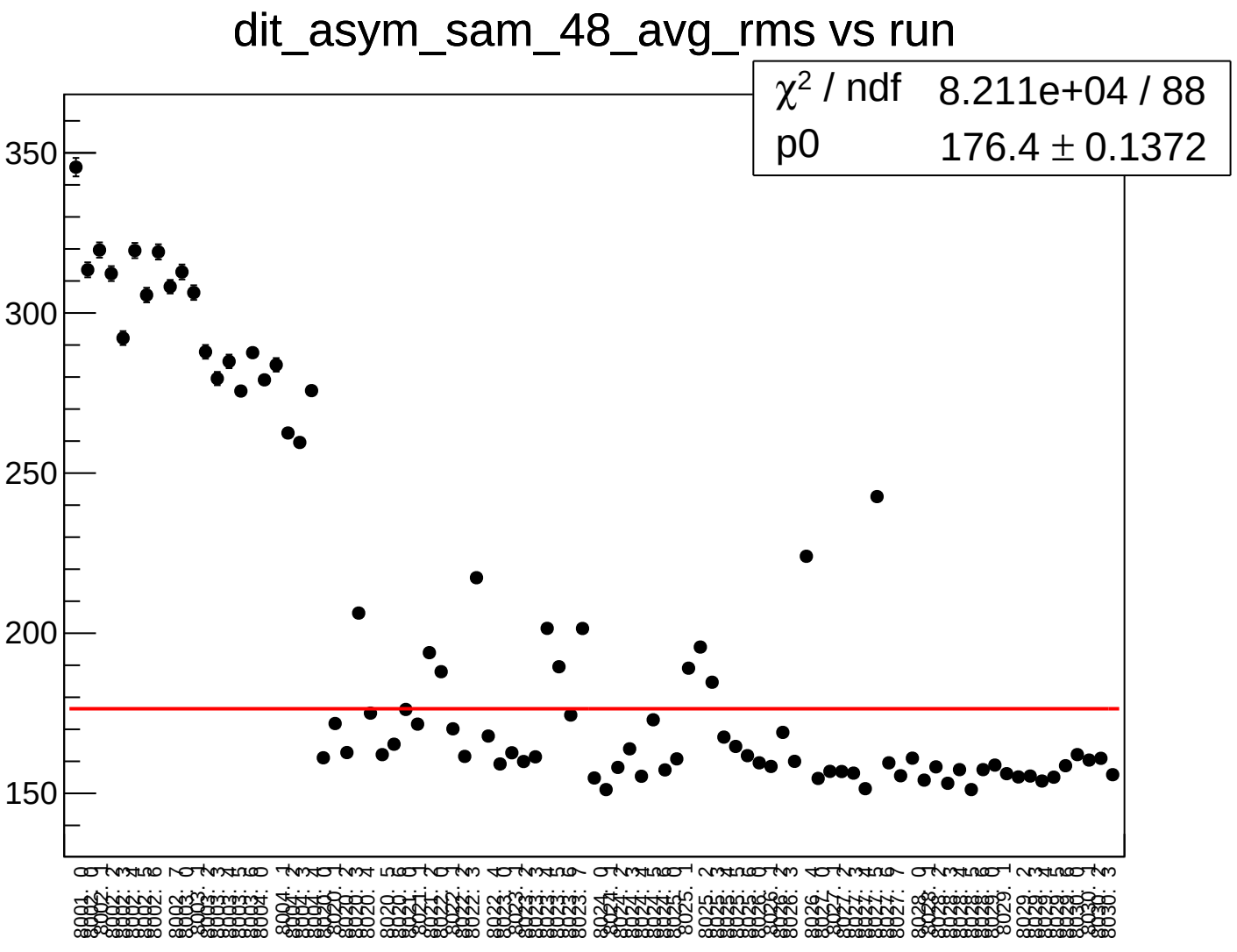

asym_sam_48_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 91.11 / 88
p0 1089 ± 2239
pull
Entries 89
Mean 209.7
Std Dev 0

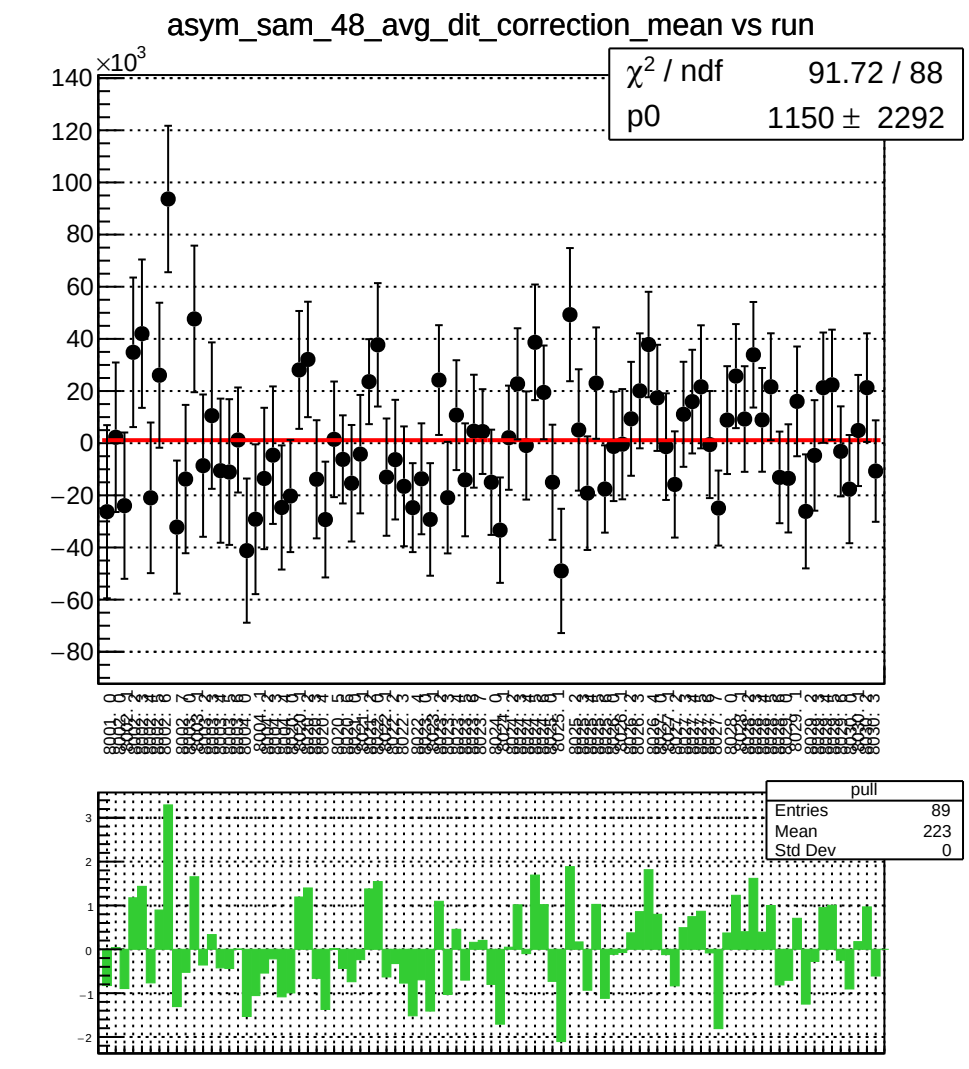

pull1D
Entries 89
Mean 0.01278
Std Dev 1.012

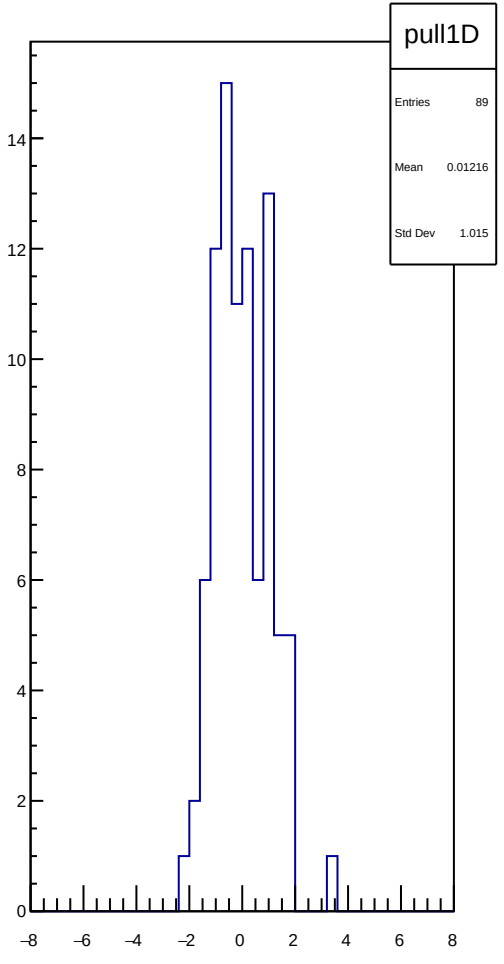

asym_sam_48_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.323e+04 / 88
p0 2077 ± 1.583
2600
2500
2400
2300
2200
2100
2000
1900
1800

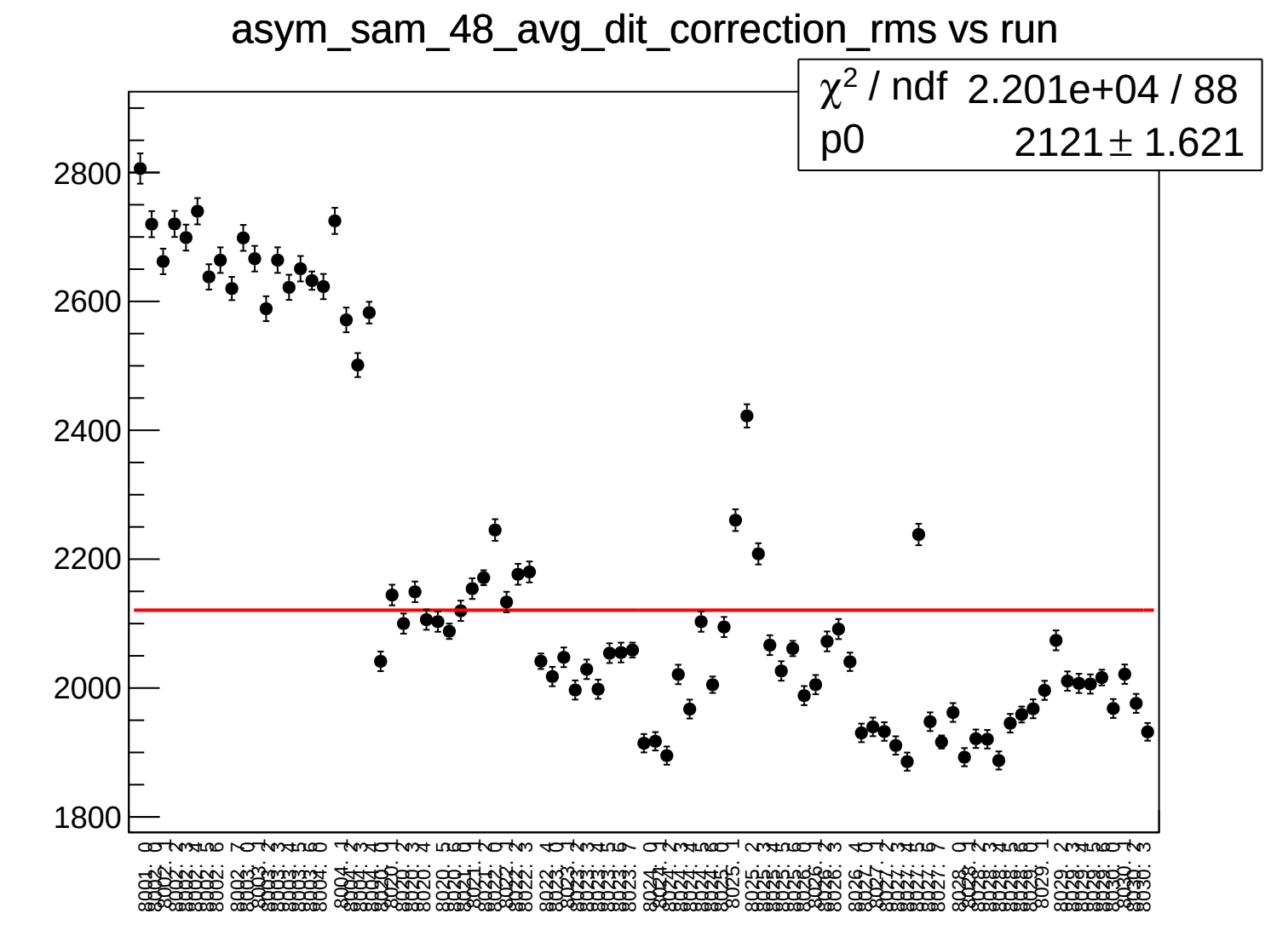

dit_asym_sam_48_avg_mean vs run
χ² / ndf 89.12 / 88
p0 69.18 ± 194.1
15000
10000
5000
0
−5000
pull
Entries 89
Mean 207.2
Std Dev 0
3
2
1
0
−1
−2

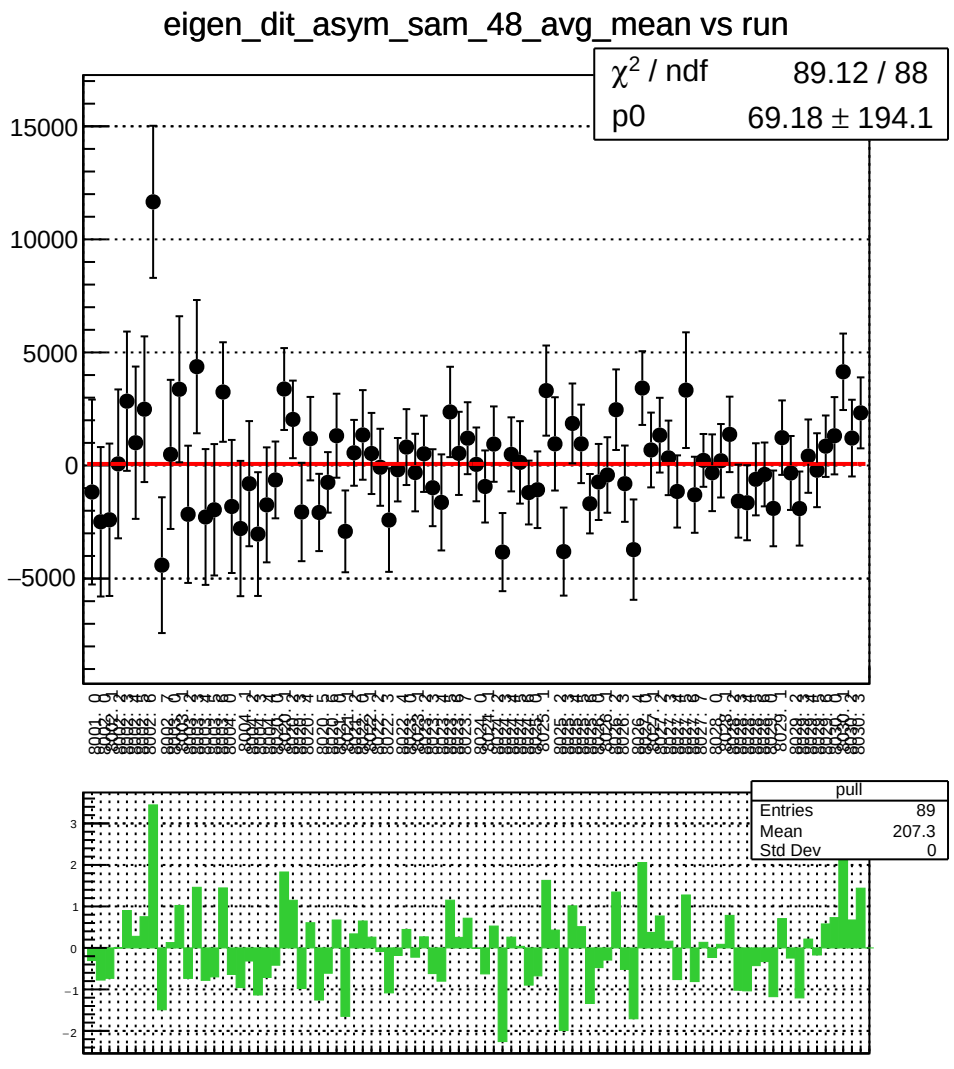

pull1D
Entries 89
Mean 0.006125
Std Dev 1.001
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

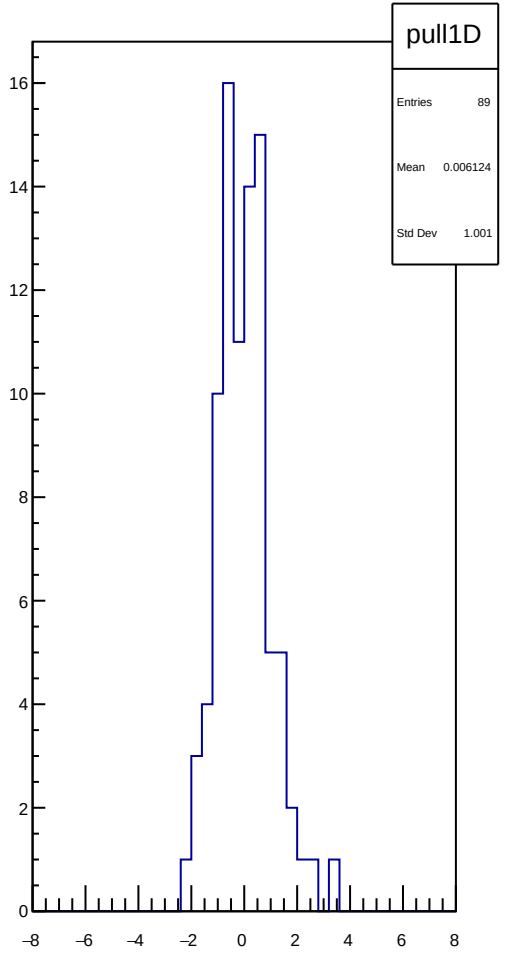

dit_asym_sam_48_avg_rms vs run
χ² / ndf 8.211e+04 / 88
p0 176.4 ± 0.1372
350
300
250
200
150

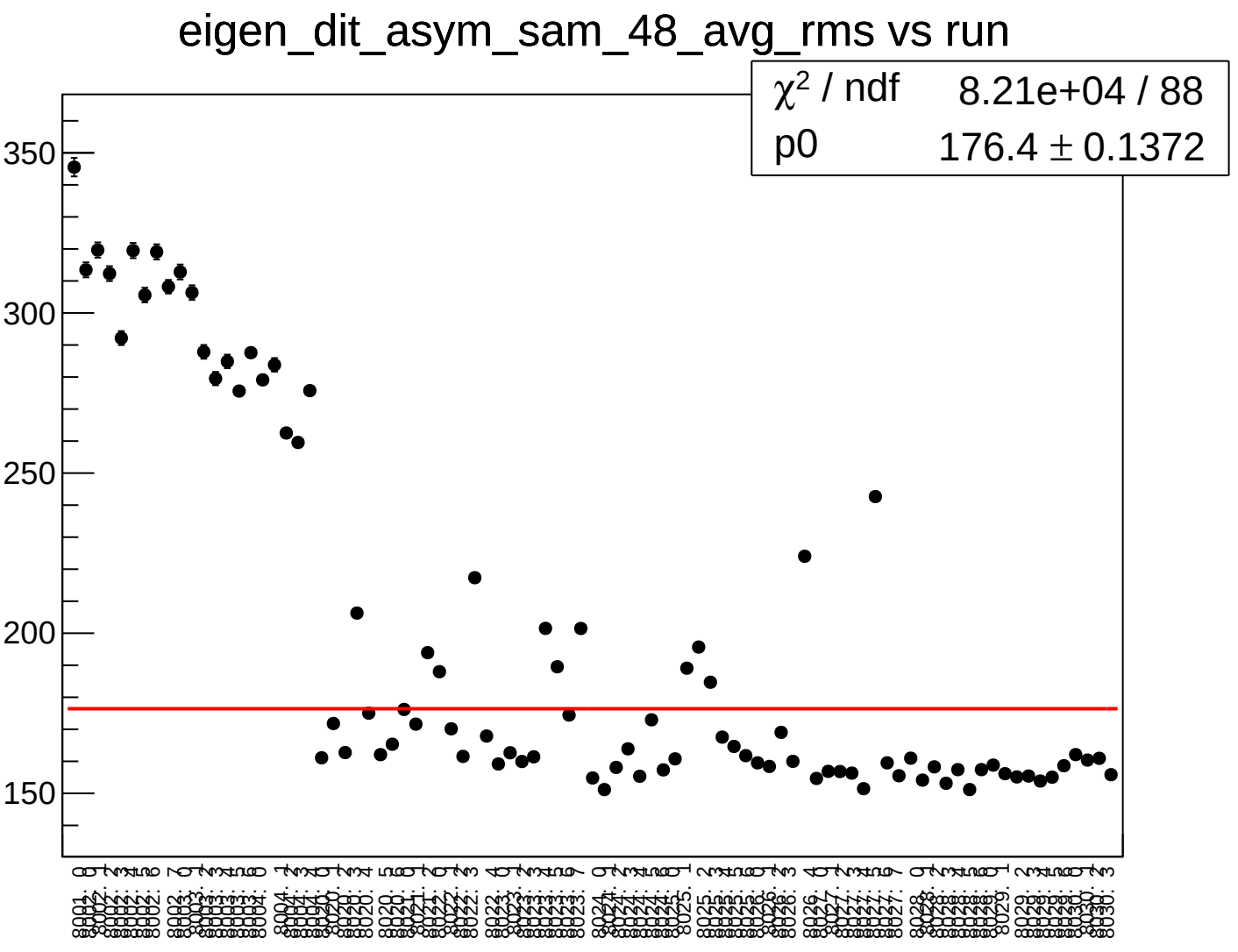

asym_sam_48_avg_dit_correction_mean vs run
×10^3
χ² / ndf 91.72 / 88
p0 1150 ± 2292
pull
Entries 89
Mean 223
Std Dev 0

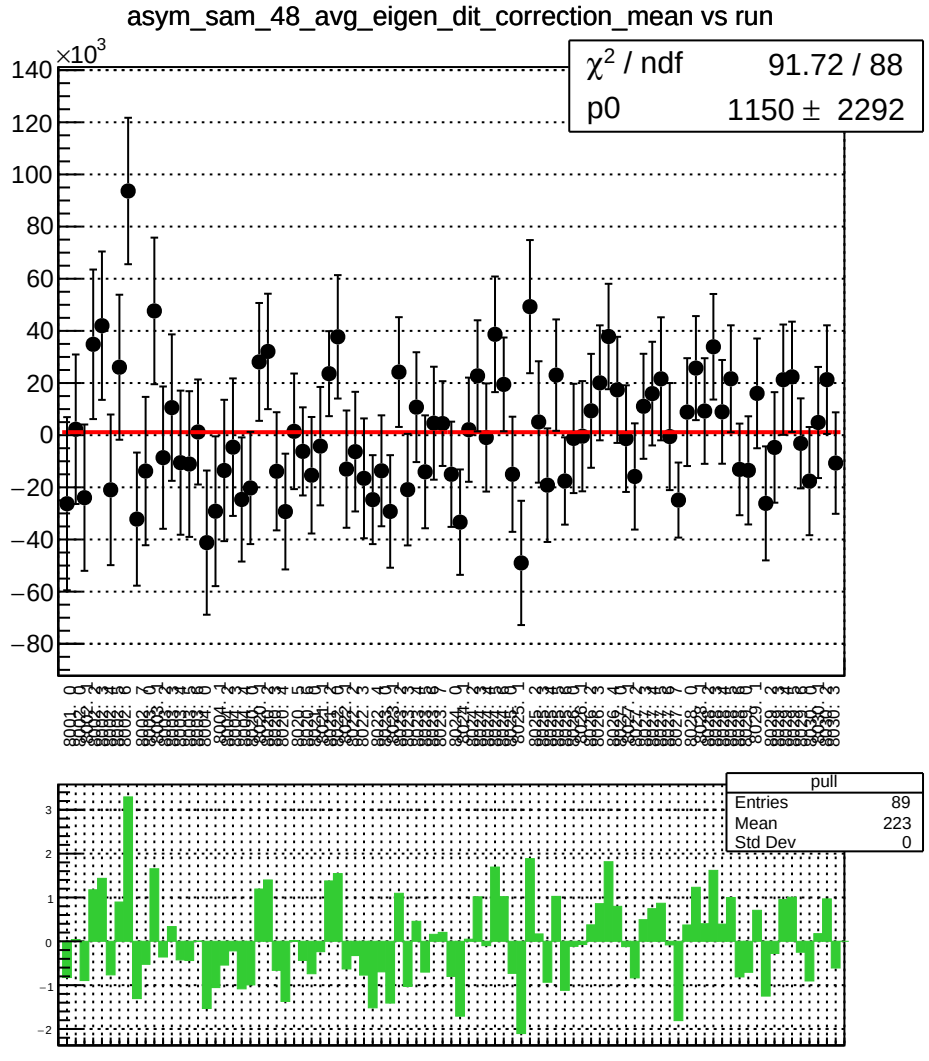

pull1D
Entries 89
Mean 0.01216
Std Dev 1.015

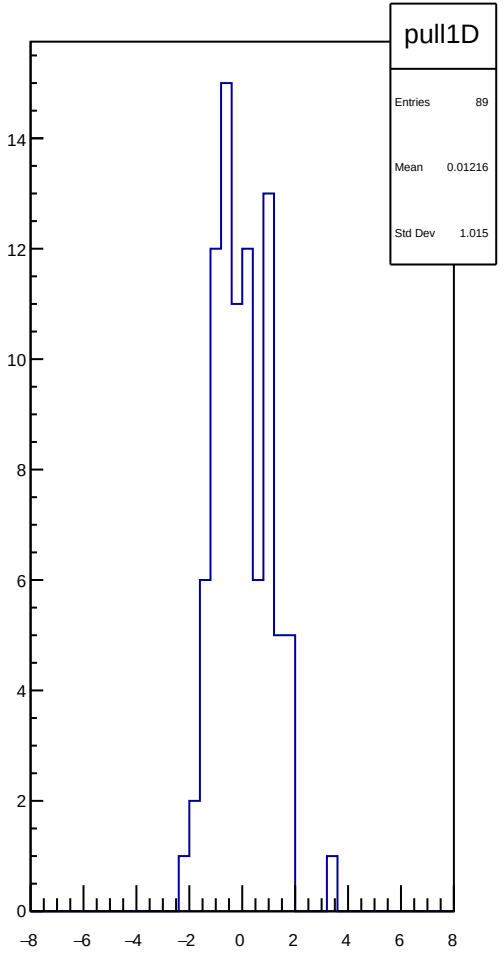

asym_sam_48_avg_dit_correction_rms vs run
χ² / ndf 2.201e+04 / 88
p0 2121 ± 1.621
2800
2600
2400
2200
2000
1800

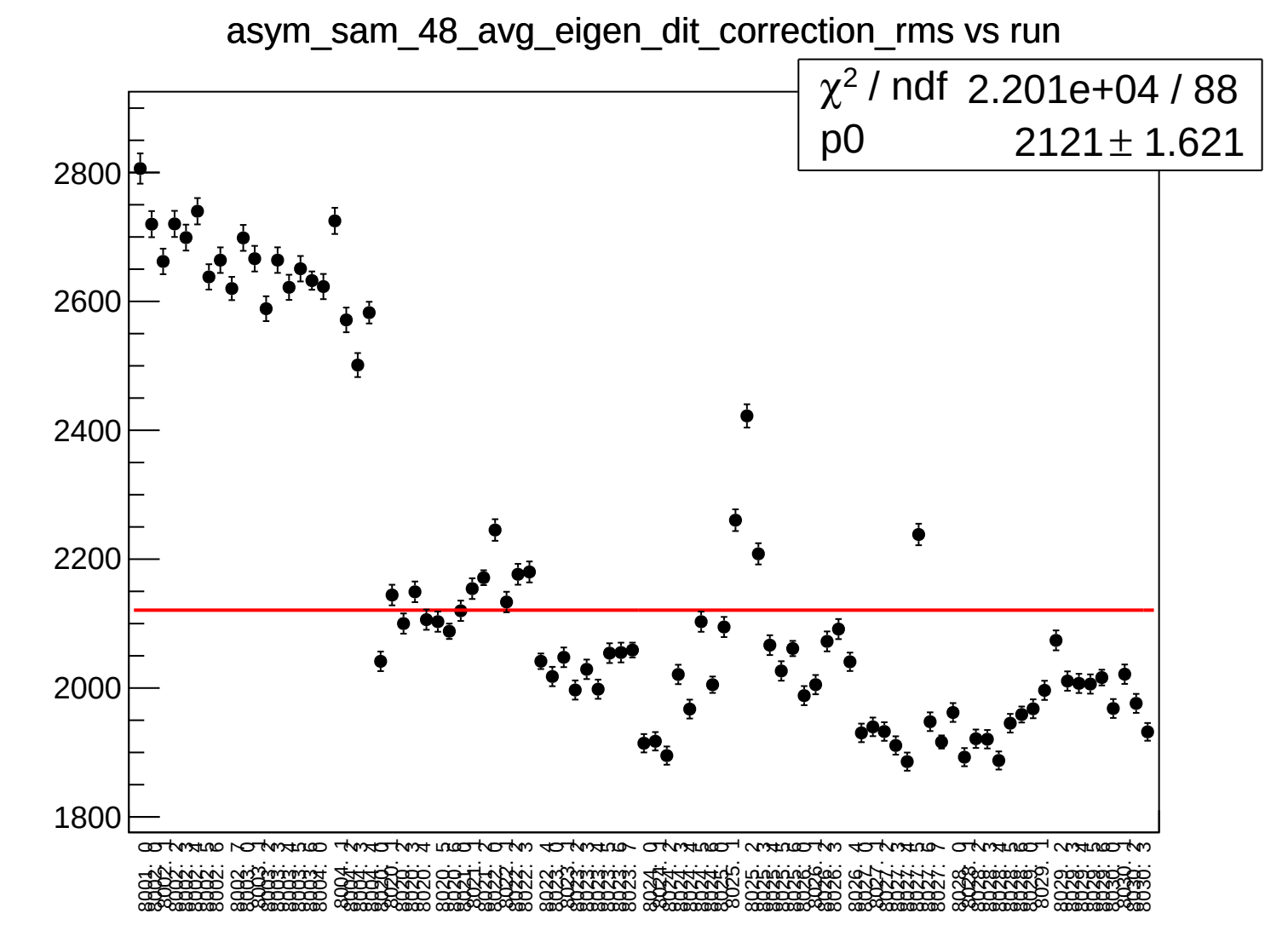

eigen_dit_asym_sam_48_avg_mean vs run
χ^2 / ndf 89.12 / 88
p0 69.18 ± 194.1
15000
10000
5000
0
−5000
pull
Entries 89
Mean 207.3
Std Dev 0
3
2
1
0
−1
−2

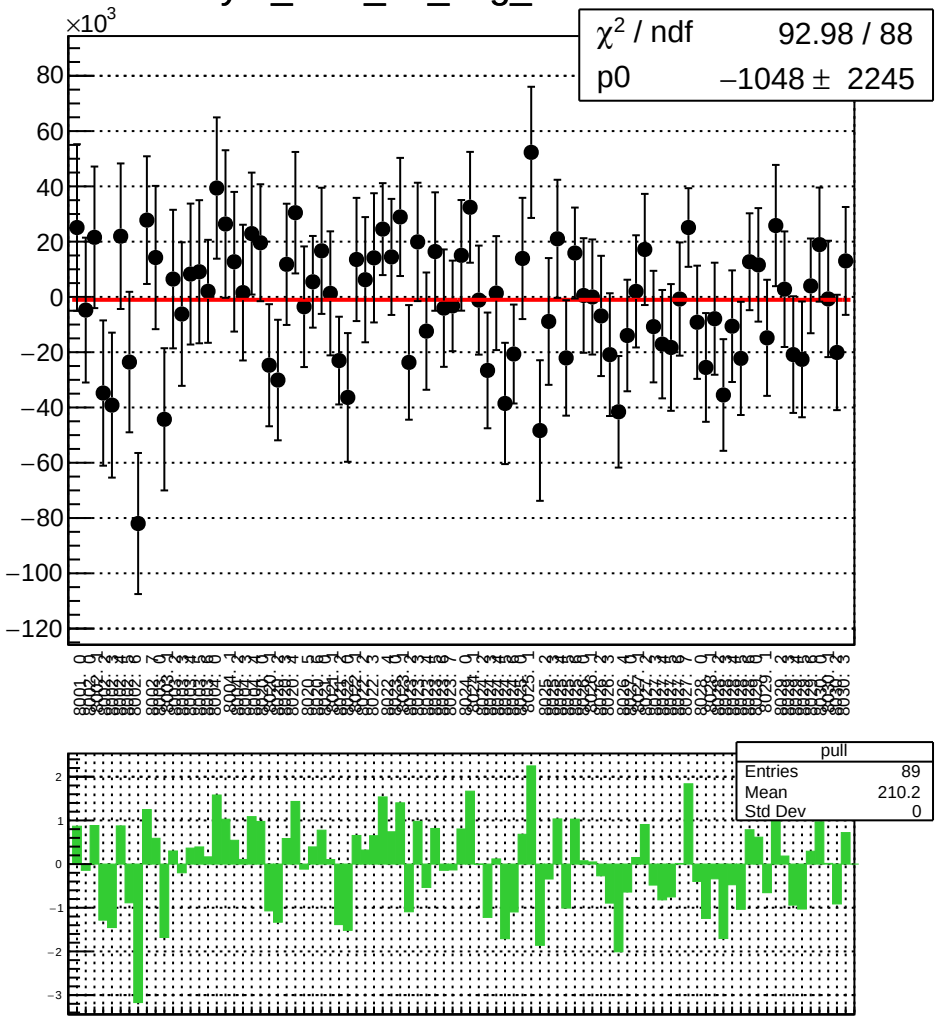

pull1D
Entries 89
Mean 0.006124
Std Dev 1.001
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

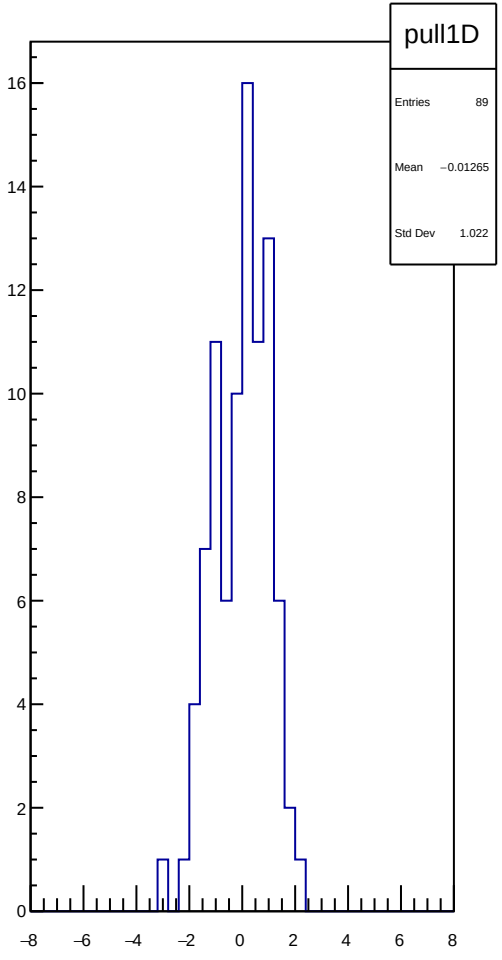

eigen_dit_asym_sam_48_avg_rms vs run
χ² / ndf 8.21e+04 / 88
p0 176.4 ± 0.1372
350
300
250
200
150

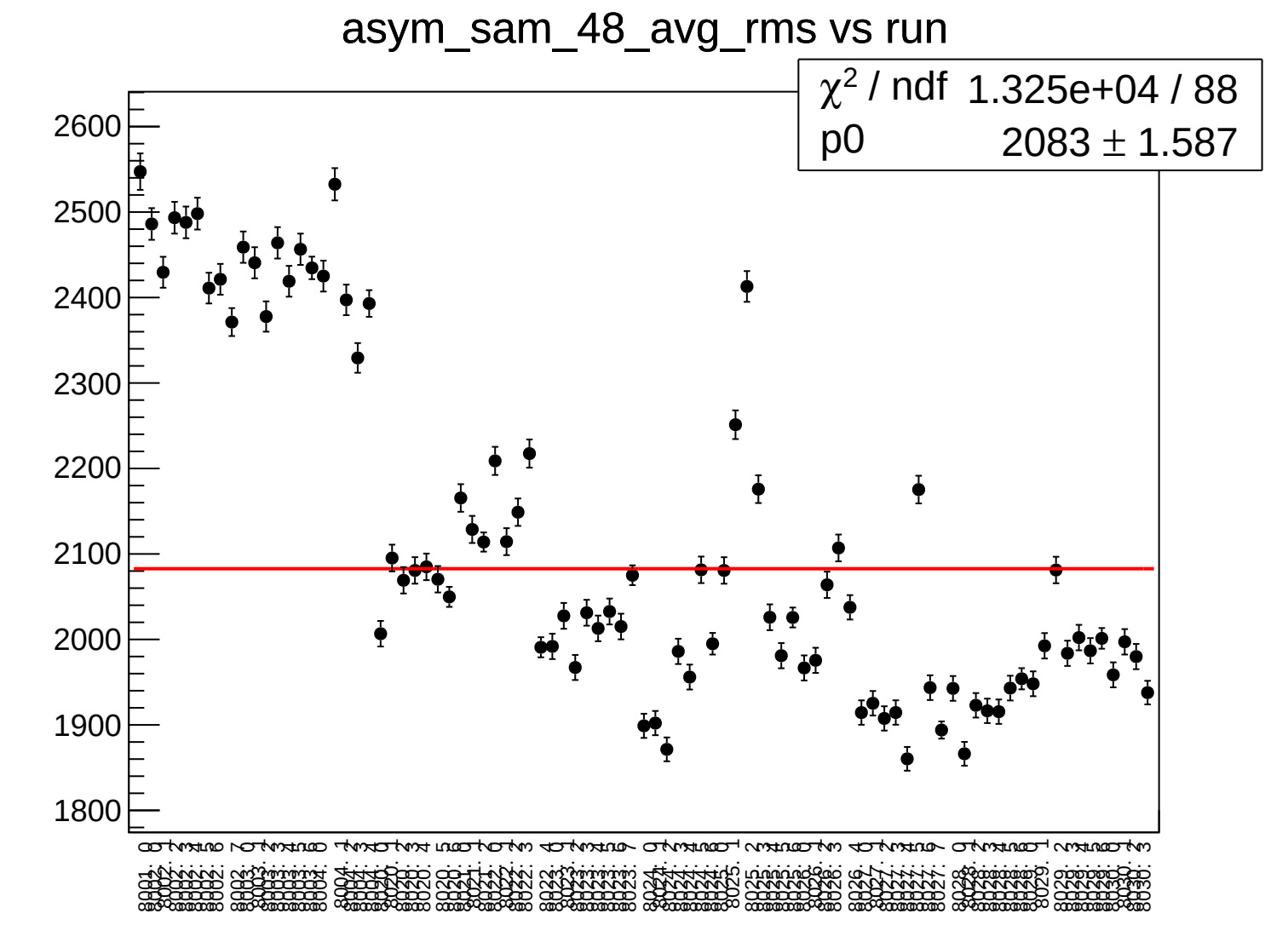

asym_sam_48_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 91.72 / 88
p0 1150 ± 2292
pull
Entries 89
Mean 223
Std Dev 0

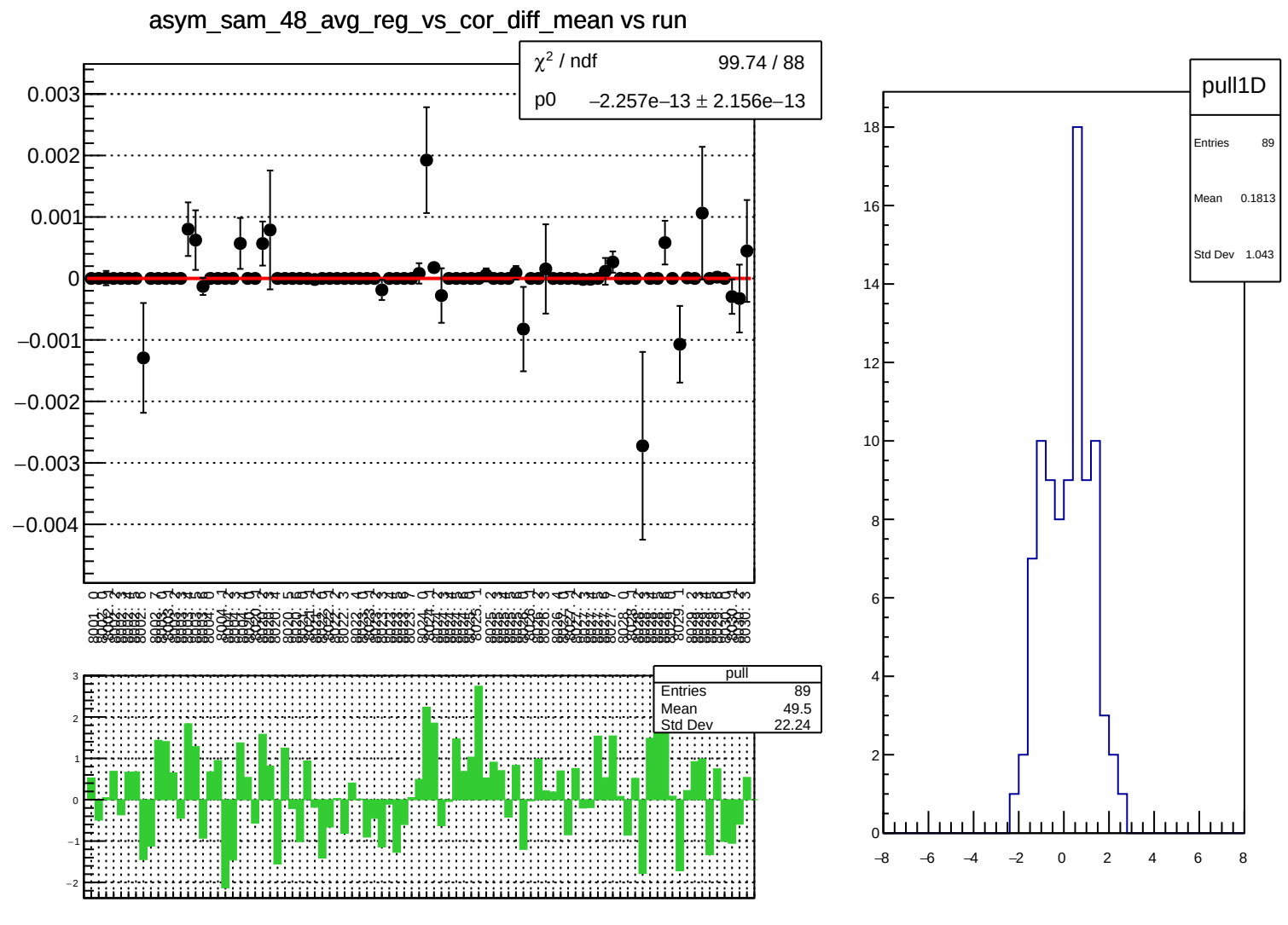

pull1D
Entries 89
Mean 0.01216
Std Dev 1.015

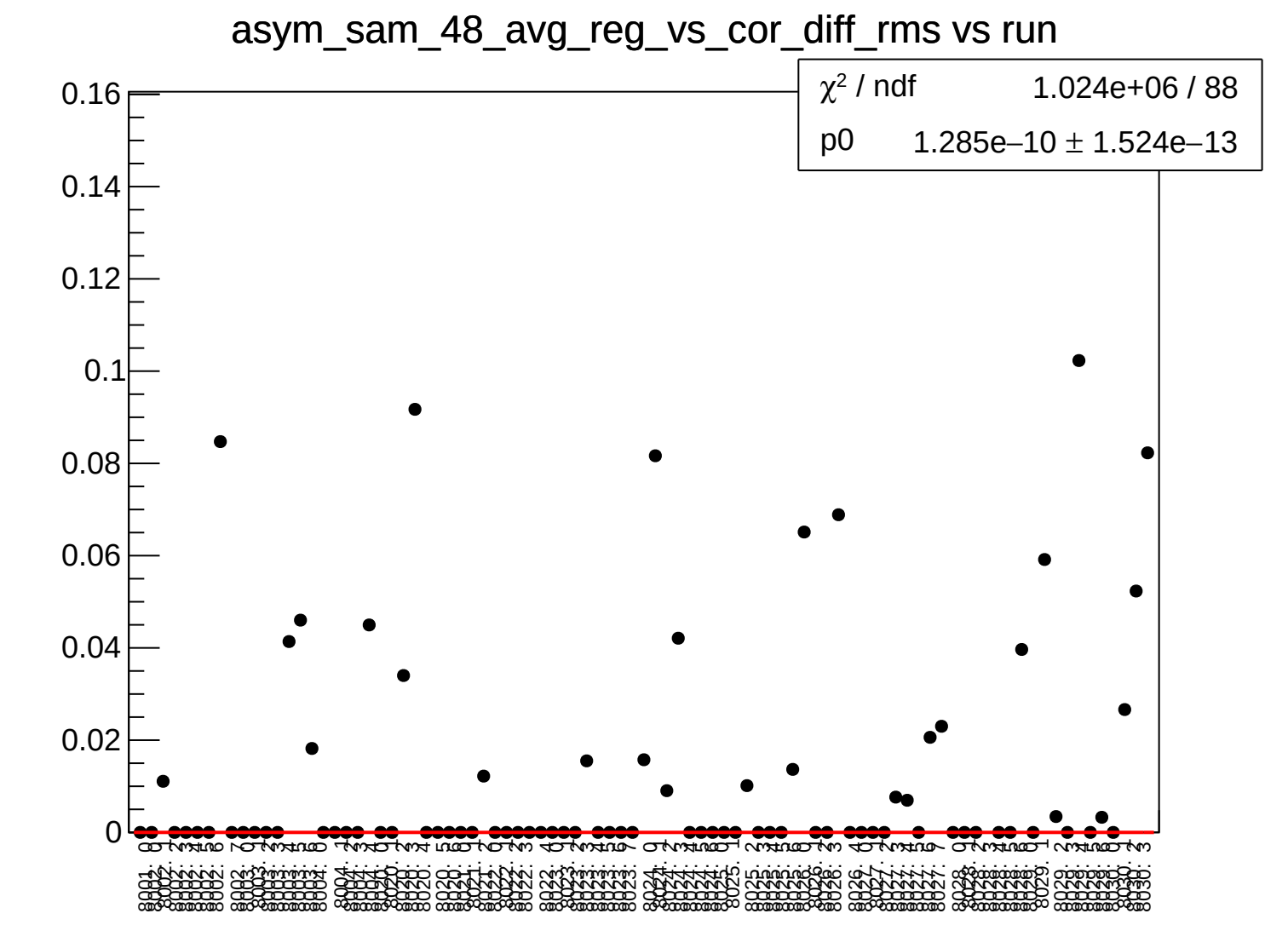

asym_sam_48_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.201e+04 / 88
p0 2121 ± 1.621
2800
2600
2400
2200
2000
1800

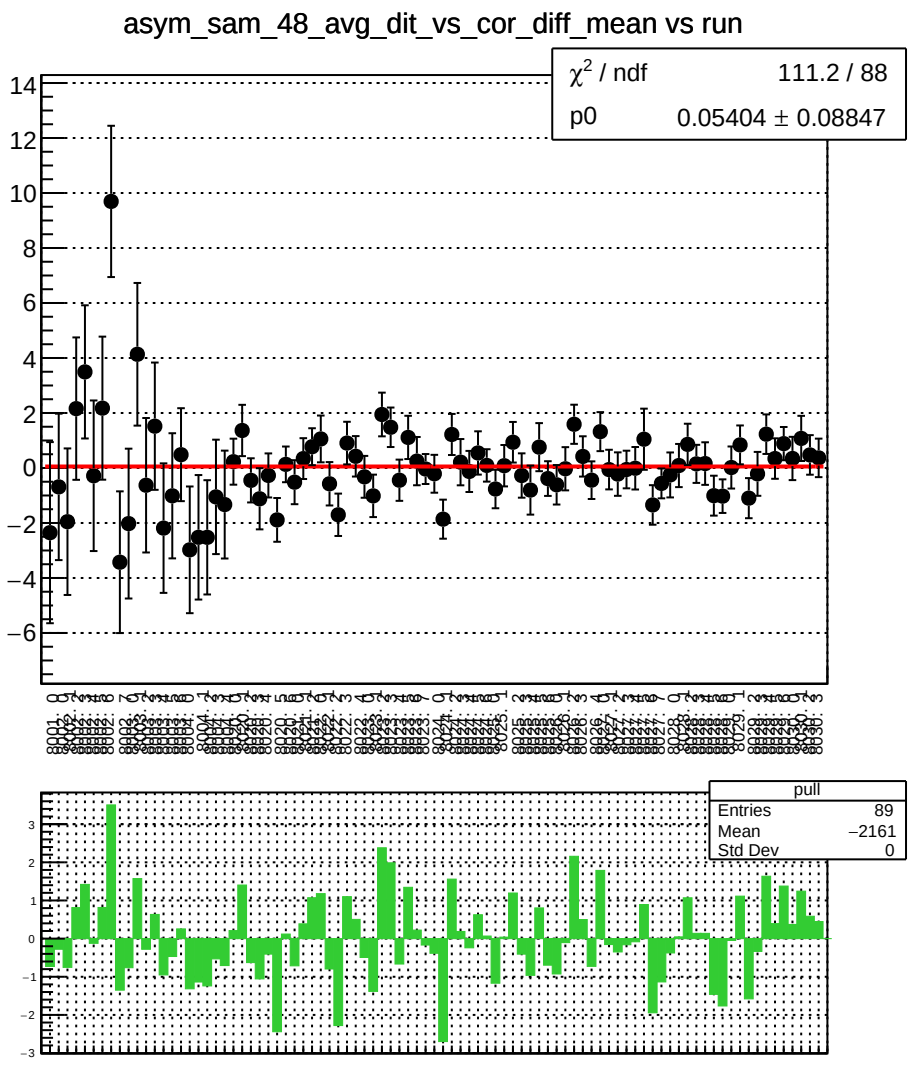

asym_sam_48_avg_mean vs run
×10^3
χ² / ndf 92.98 / 88
p0 −1048 ± 2245
pull
Entries 89
Mean 210.2
Std Dev 0

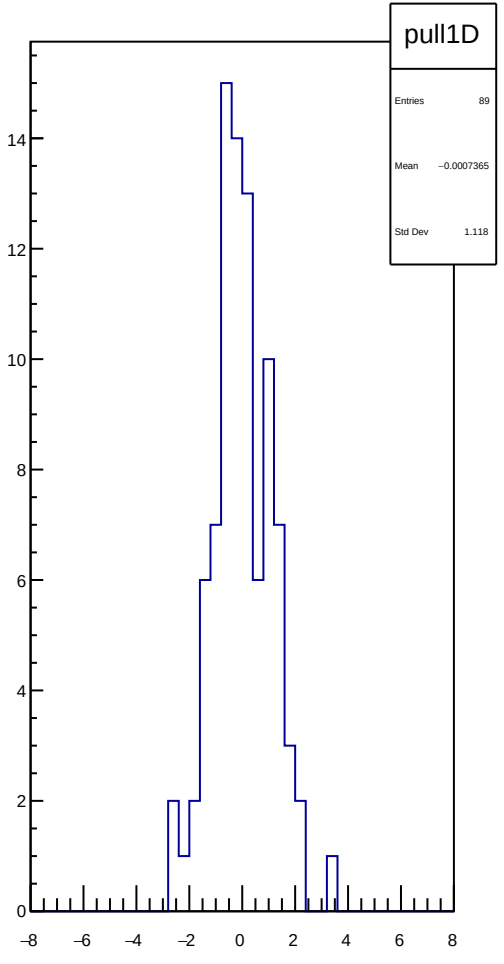

pull1D
Entries 89
Mean −0.01265
Std Dev 1.022

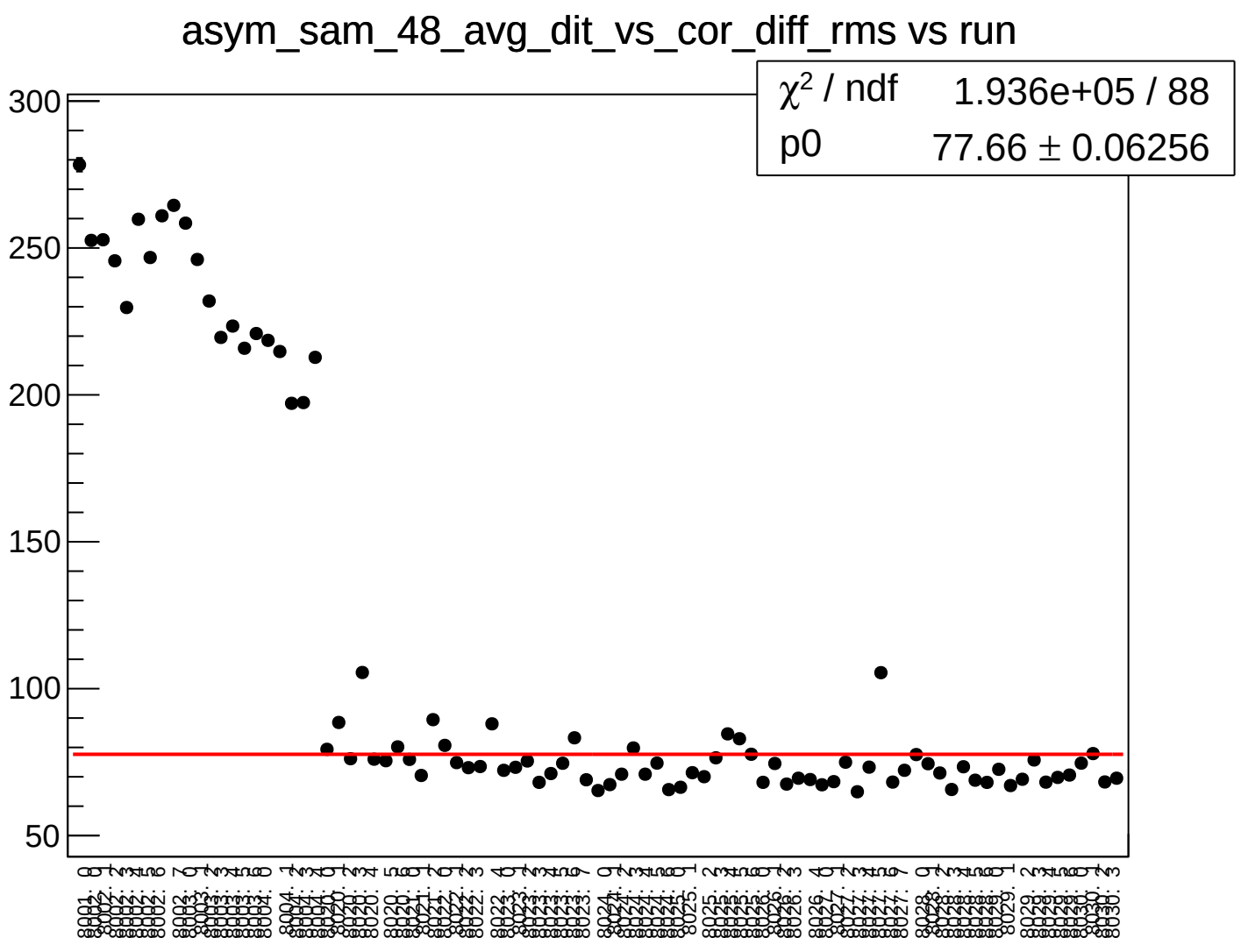

asym_sam_48_avg_rms vs run
χ² / ndf 1.325e+04 / 88
p0 2083 ± 1.587
2600
2500
2400
2300
2200
2100
2000
1900
1800

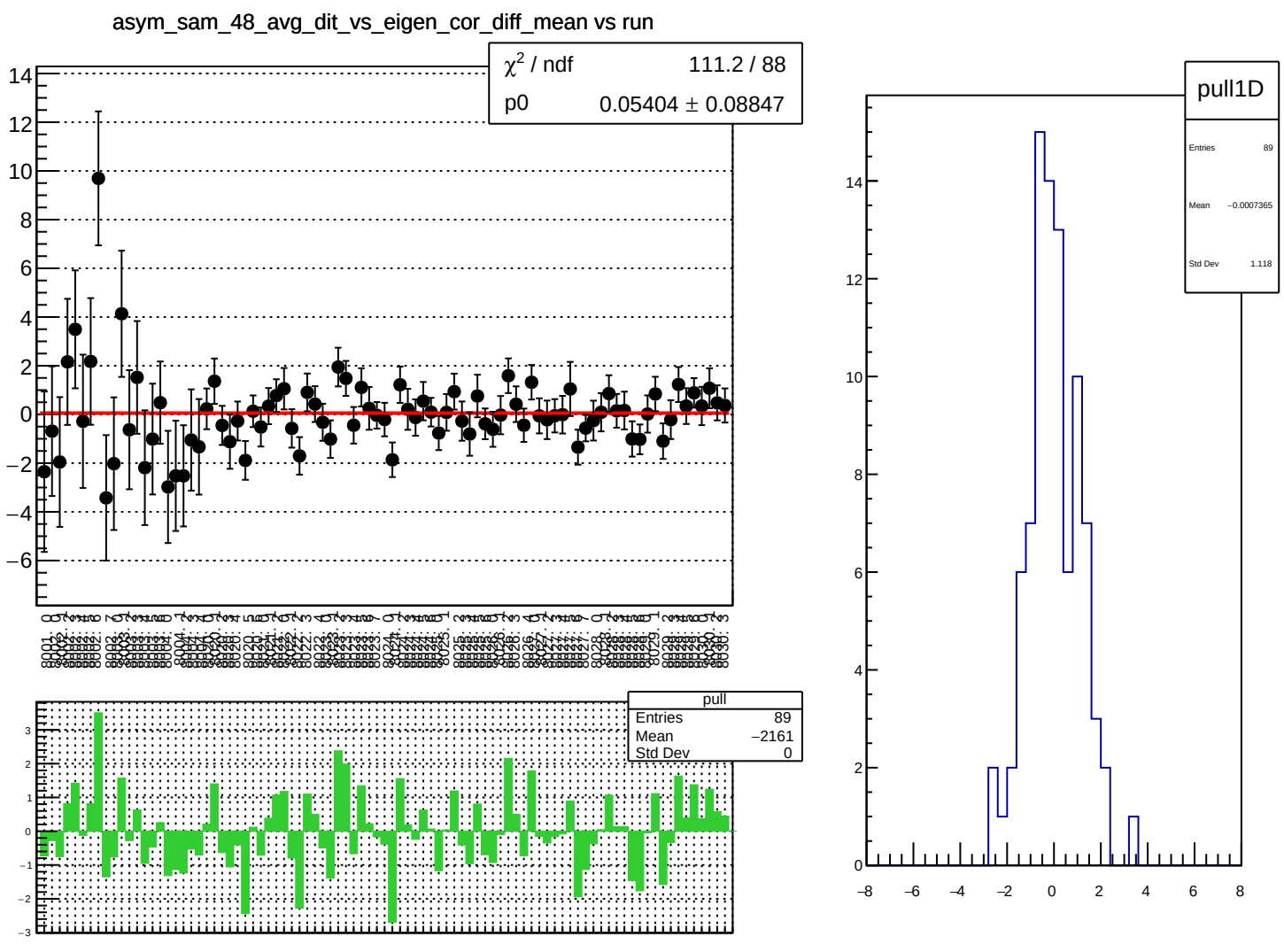

asym_sam_48_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 99.74 / 88
p0 −2.257e−13 ± 2.156e−13
0.003
0.002
0.001
0
−0.001
−0.002
−0.003
−0.004
pull
Entries 89
Mean 49.5
Std Dev 22.24
pull1D
Entries 89
Mean 0.1813
Std Dev 1.043
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

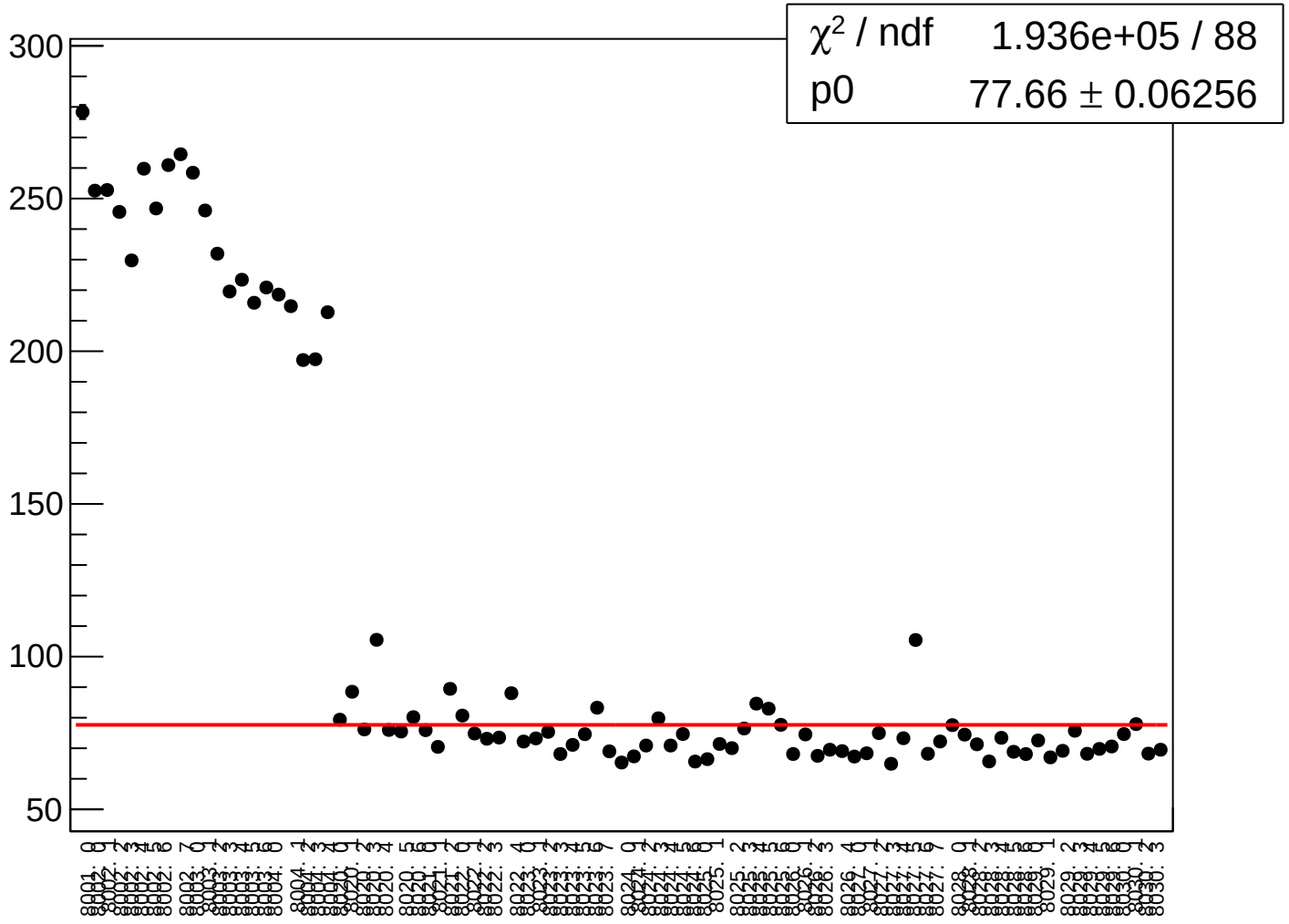

asym_sam_48_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.024e+06 / 88
p0 1.285e−10 ± 1.524e−13
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

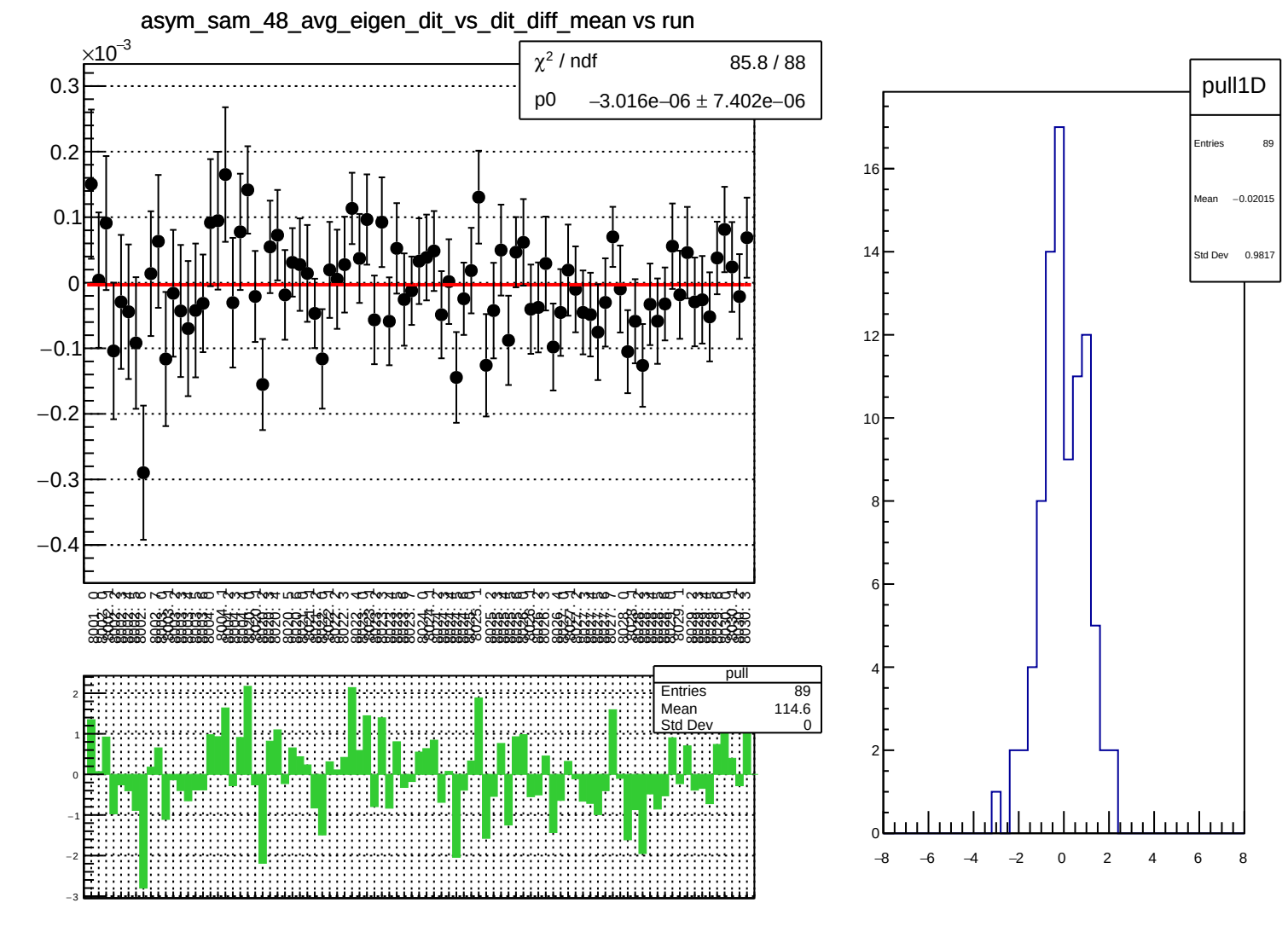

asym_sam_48_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 111.2 / 88
p0 0.05404 ± 0.08847
pull
Entries 89
Mean −2161
Std Dev 0

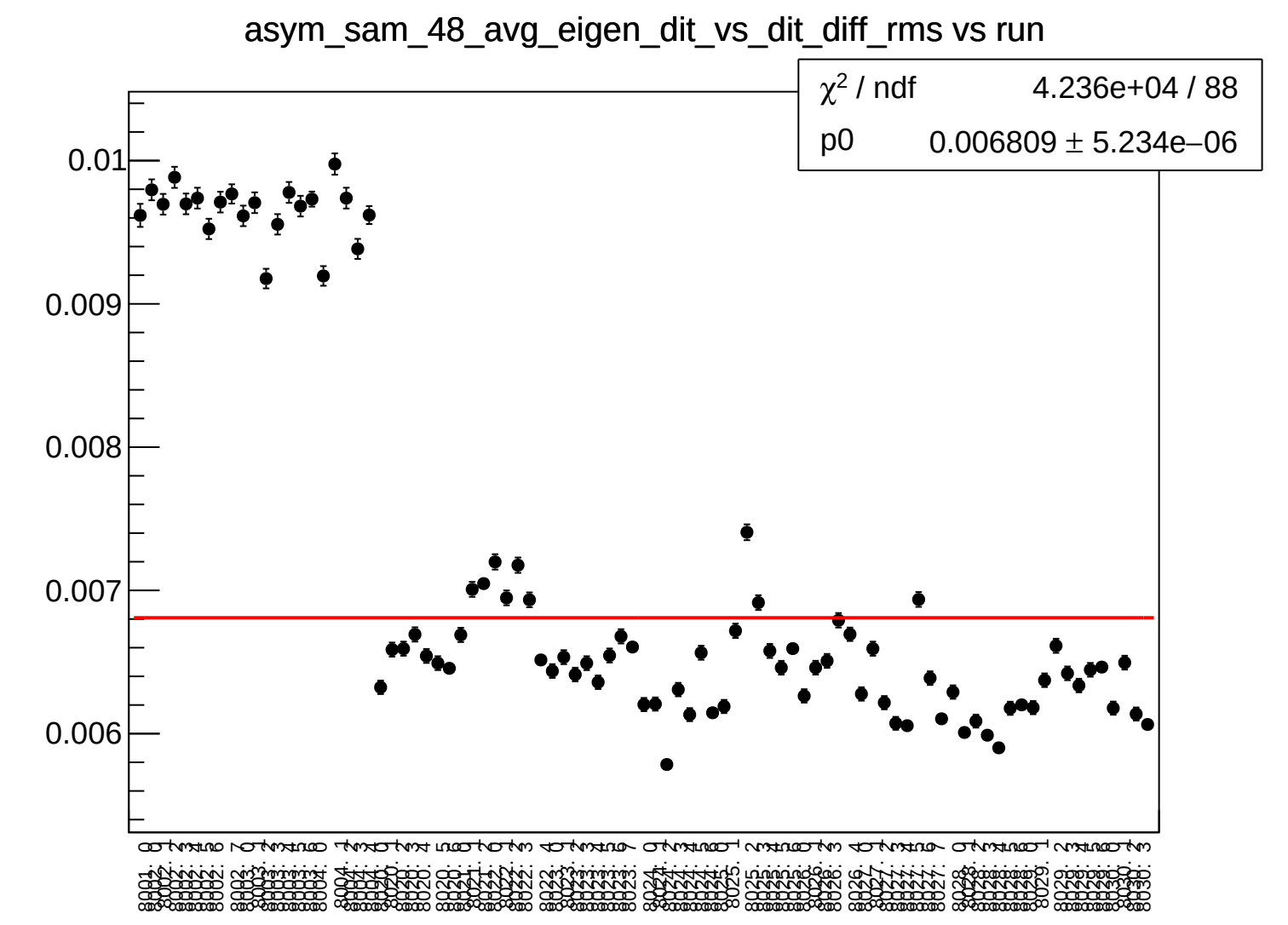

pull1D
Entries 89
Mean −0.0007365
Std Dev 1.118

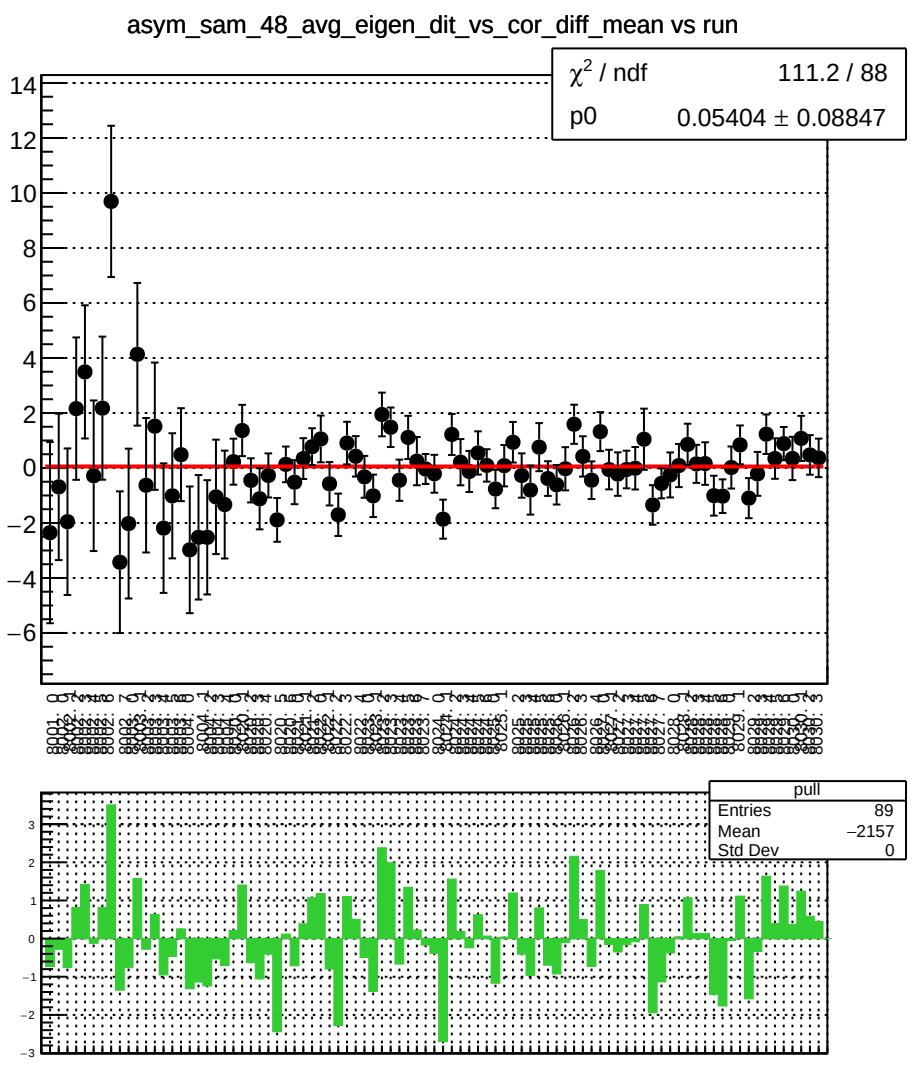

asym_sam_48_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.936e+05 / 88
p0 77.66 ± 0.06256
300
250
200
150
100
50

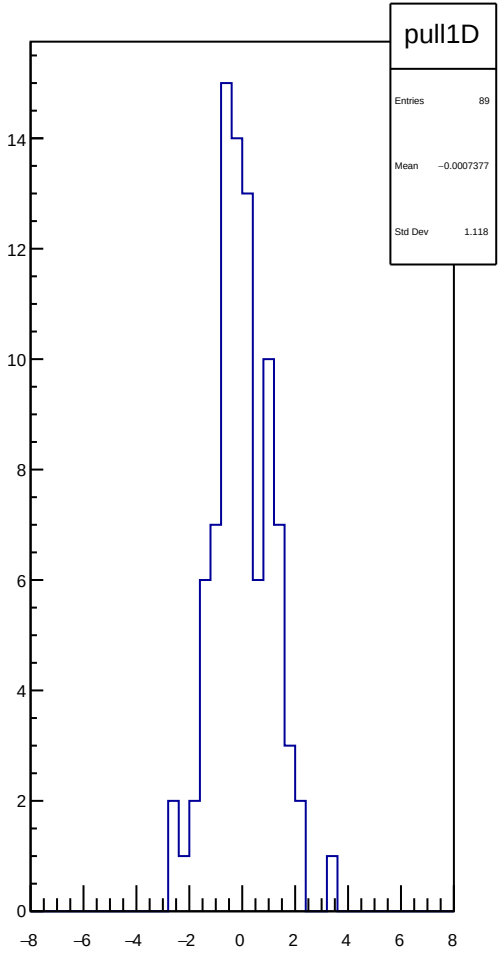

asym_sam_48_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 111.2 / 88
p0 0.05404 ± 0.08847
pull
Entries 89
Mean −2161
Std Dev 0
pull1D
Entries 89
Mean −0.0007365
Std Dev 1.118

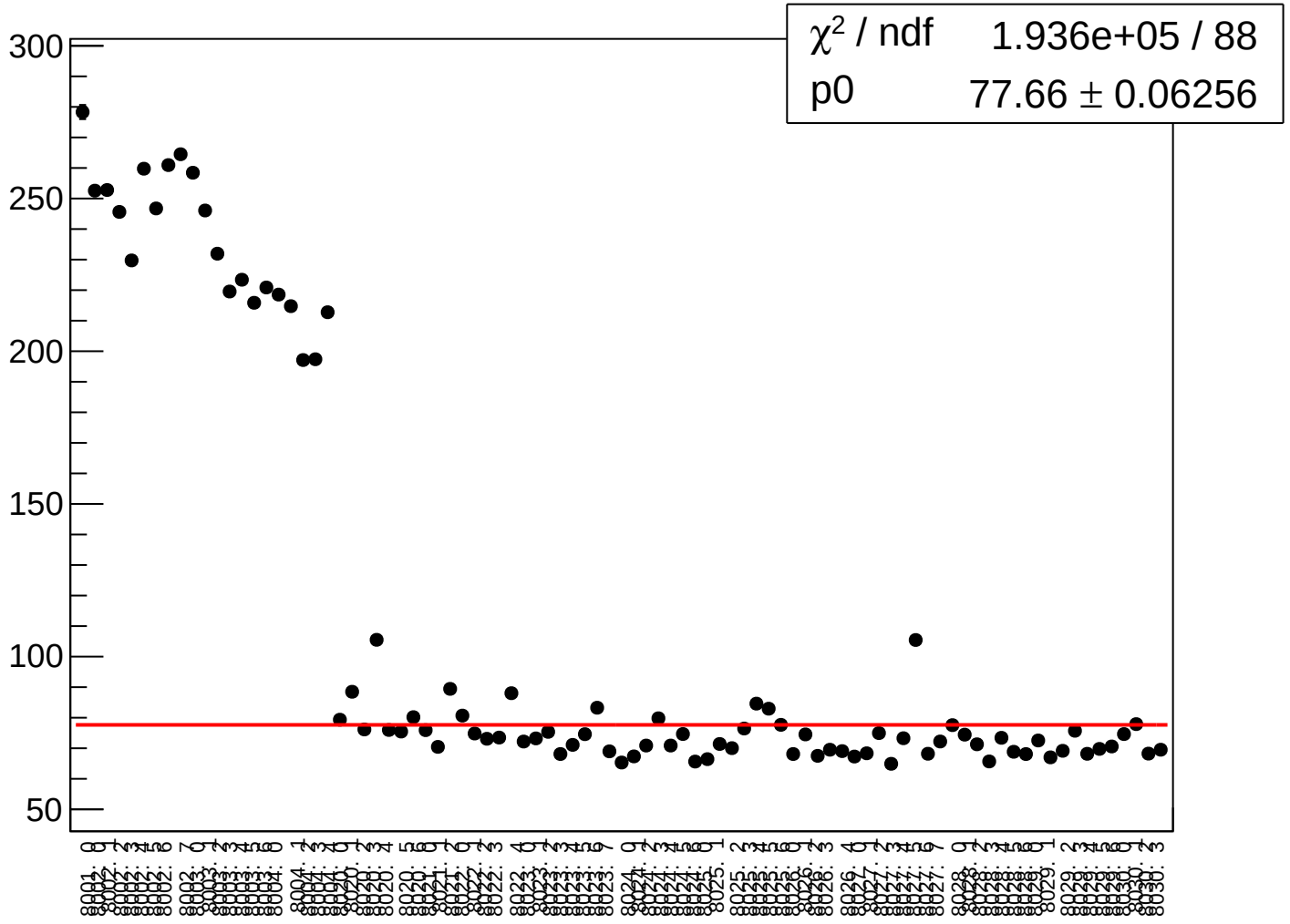

asym_sam_48_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.936e+05 / 88
p0 77.66 ± 0.06256
300
250
200
150
100
50

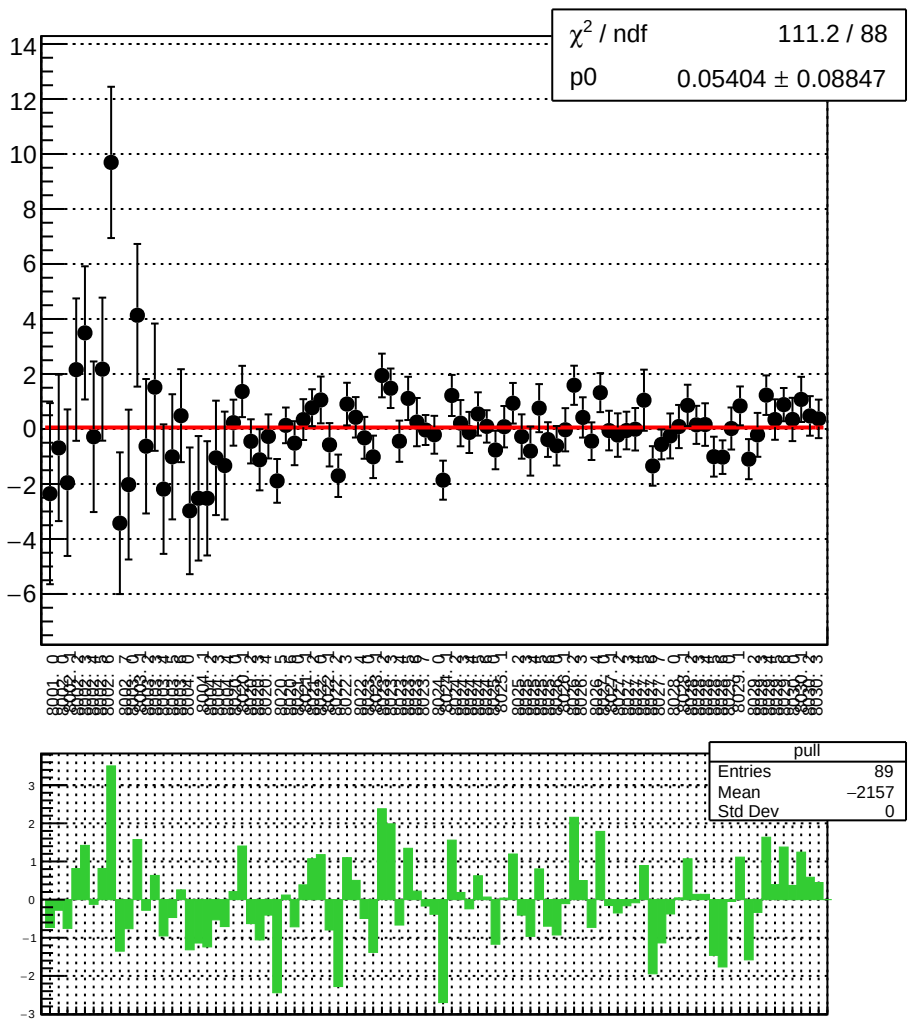

asym_sam_48_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.8 / 88
p0 −3.016e−06 ± 7.402e−06
pull
Entries 89
Mean 114.6
Std Dev 0
pull1D
Entries 89
Mean −0.02015
Std Dev 0.9817

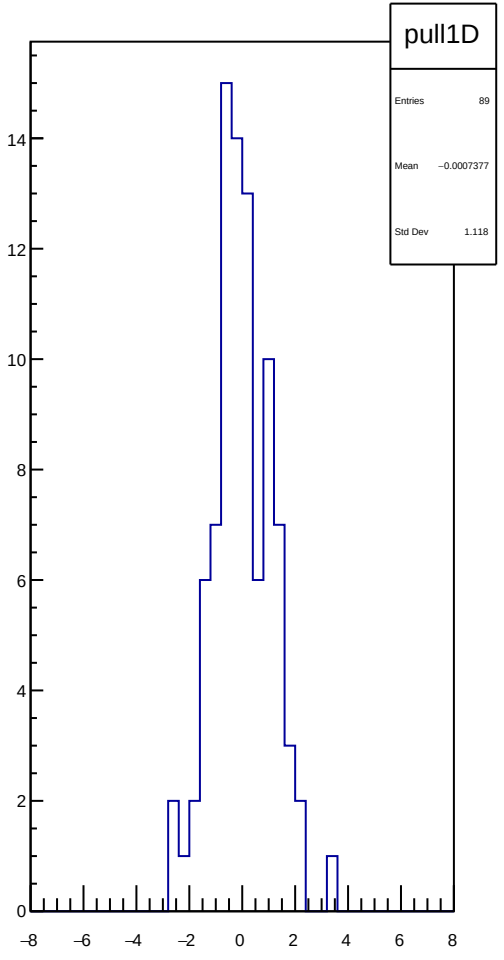

asym_sam_48_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.236e+04 / 88
p0 0.006809 ± 5.234e−06
0.01
0.009
0.008
0.007
0.006

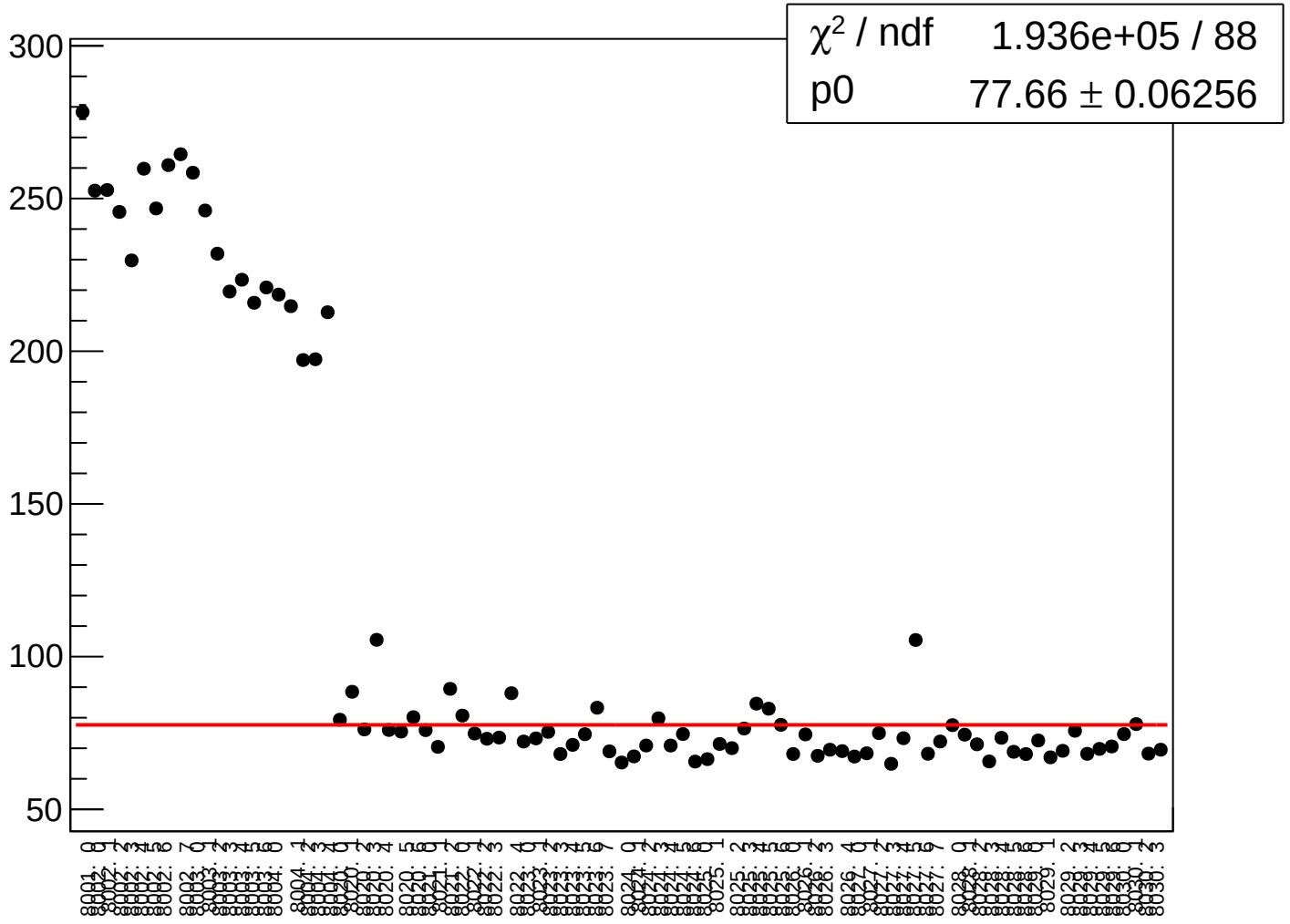

asym_sam_48_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 111.2 / 88
p0 0.05404 ± 0.08847
pull
Entries 89
Mean −2157
Std Dev 0

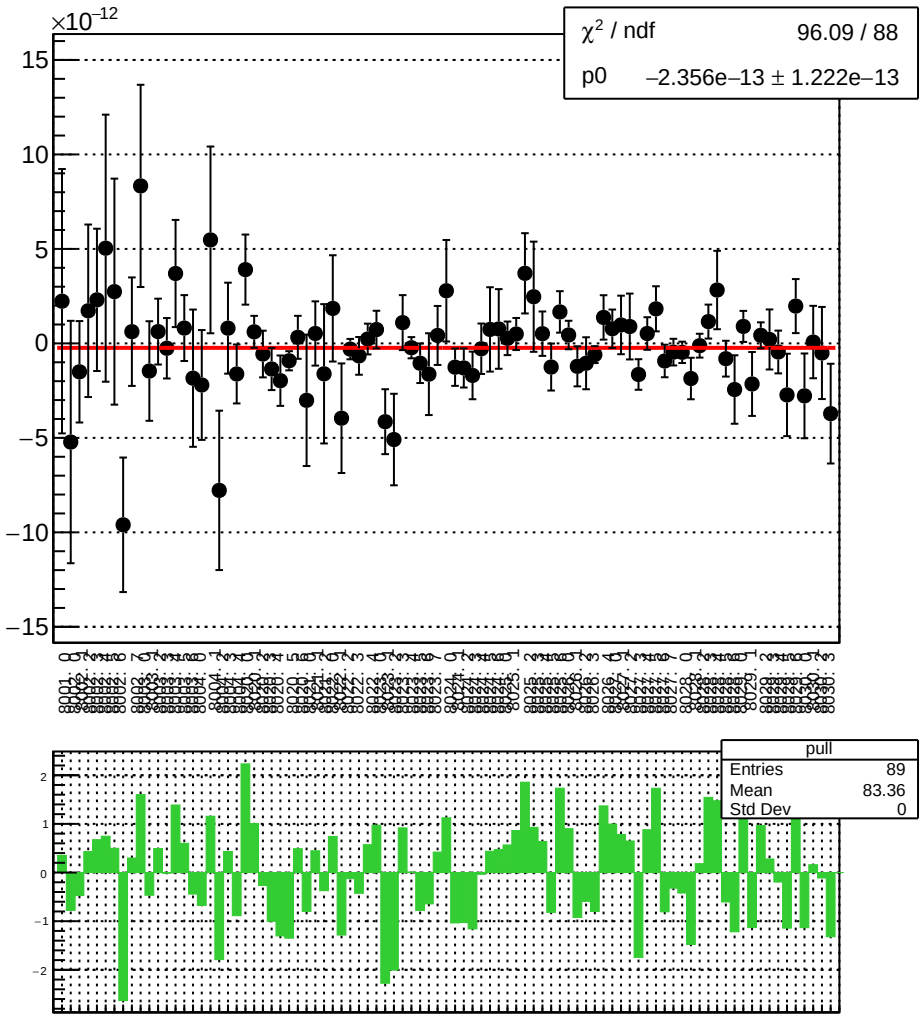

pull1D
Entries 89
Mean −0.0007377
Std Dev 1.118

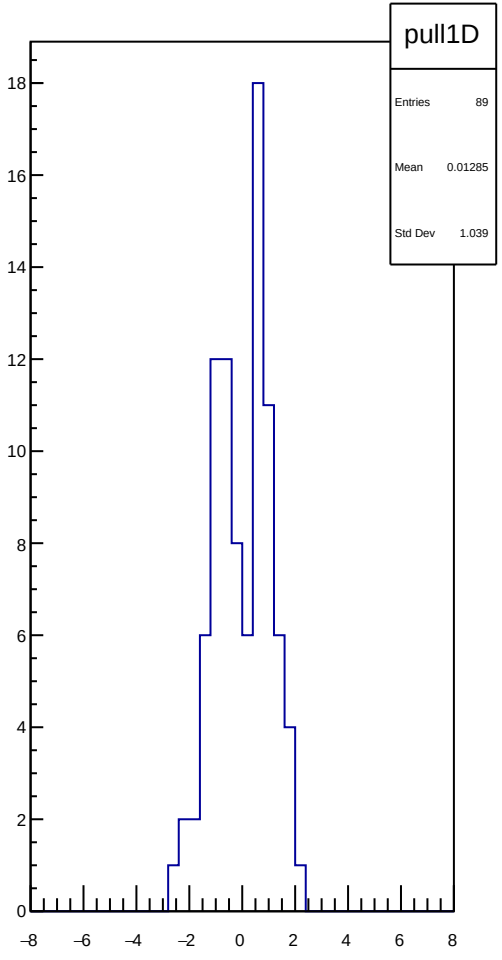

asym_sam_48_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.936e+05 / 88
p0 77.66 ± 0.06256
300
250
200
150
100
50

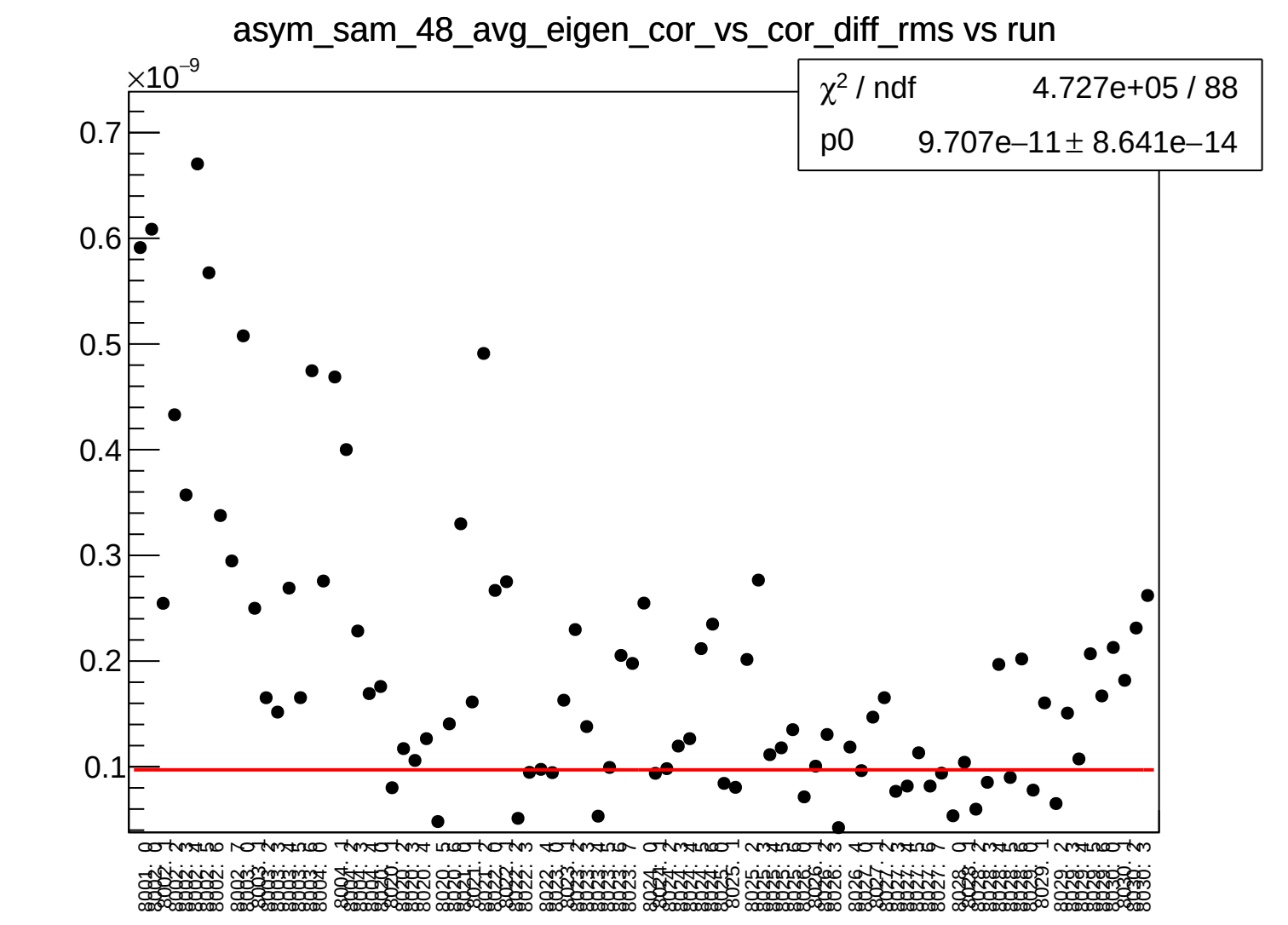

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 111.2 / 88
p0 0.05404 ± 0.08847
pull
Entries 89
Mean −2157
Std Dev 0

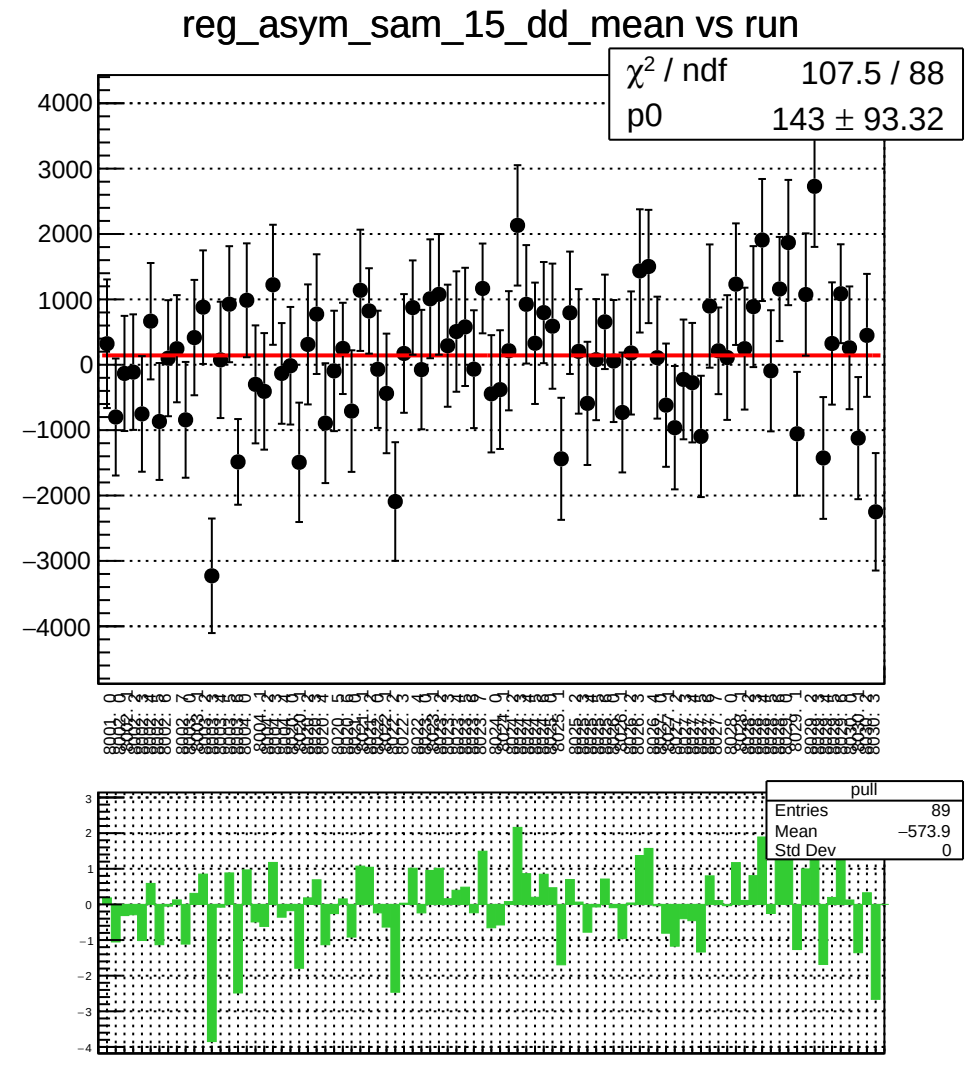

pull1D
Entries 89
Mean −0.0007377
Std Dev 1.118

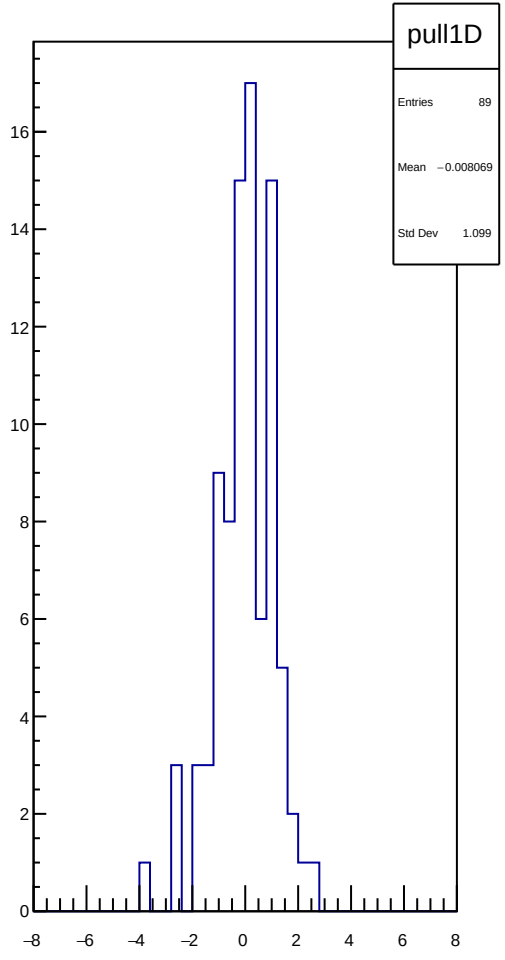

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.936e+05 / 88
p0 77.66 ± 0.06256
300
250
200
150
100
50

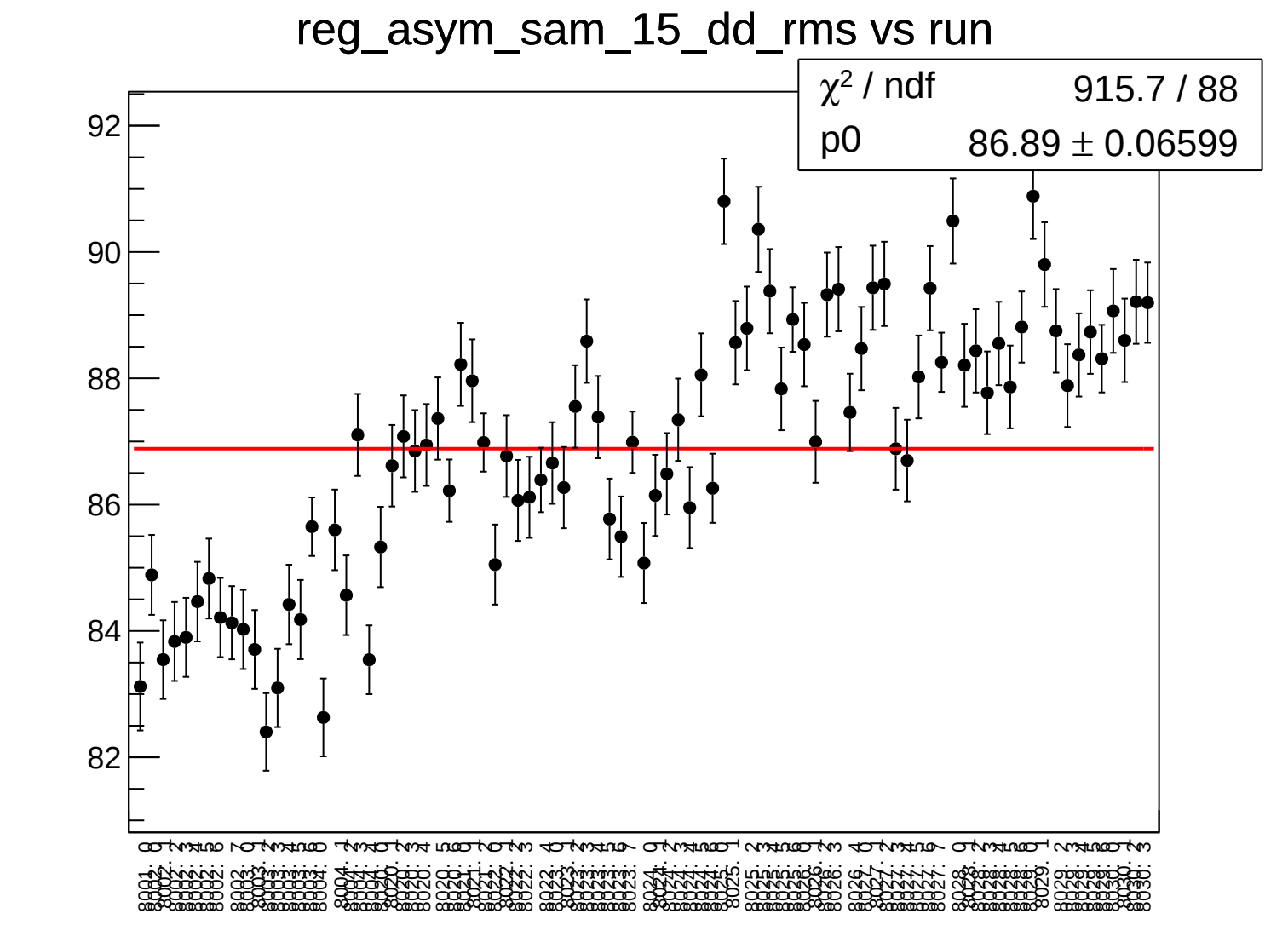

asym_sam_48_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.09 / 88
p0 −2.356e−13 ± 1.222e−13
pull
Entries 89
Mean 83.36
Std Dev 0

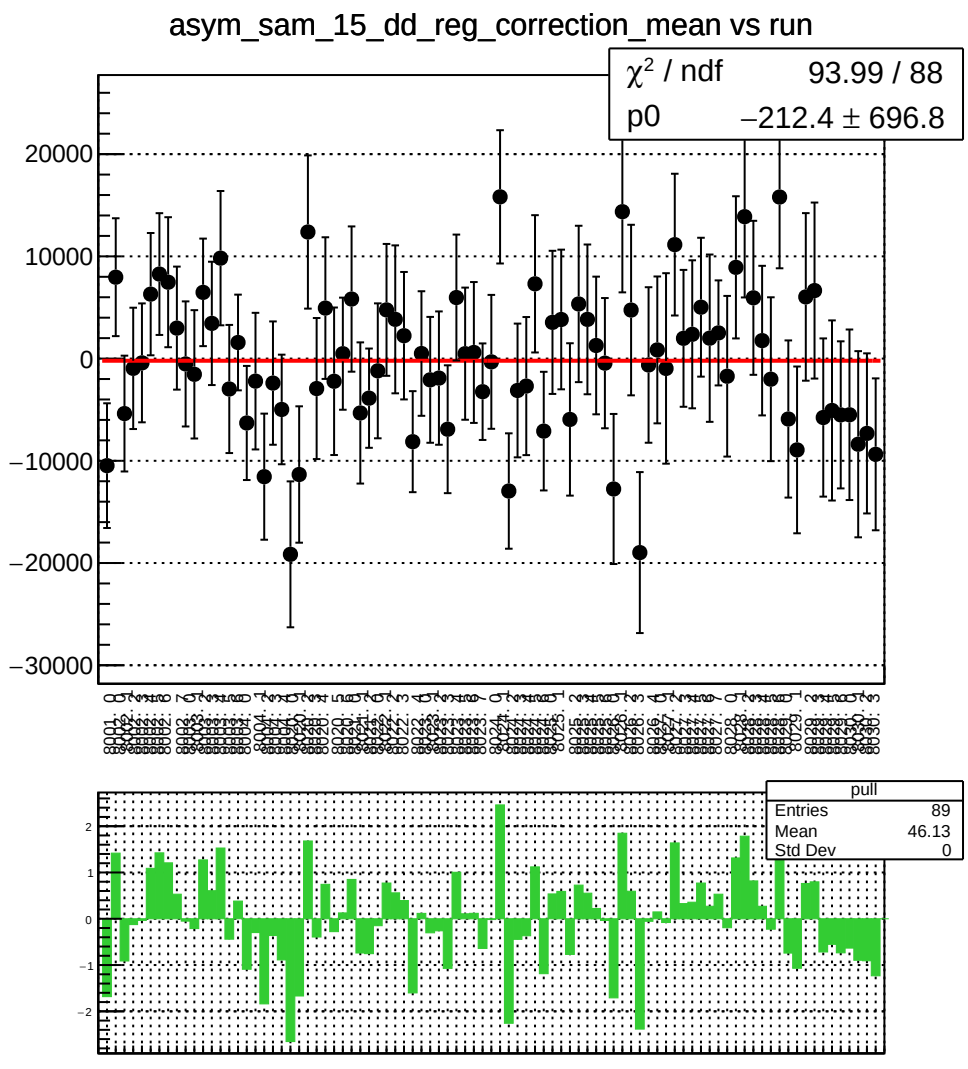

pull1D
Entries 89
Mean 0.01285
Std Dev 1.039

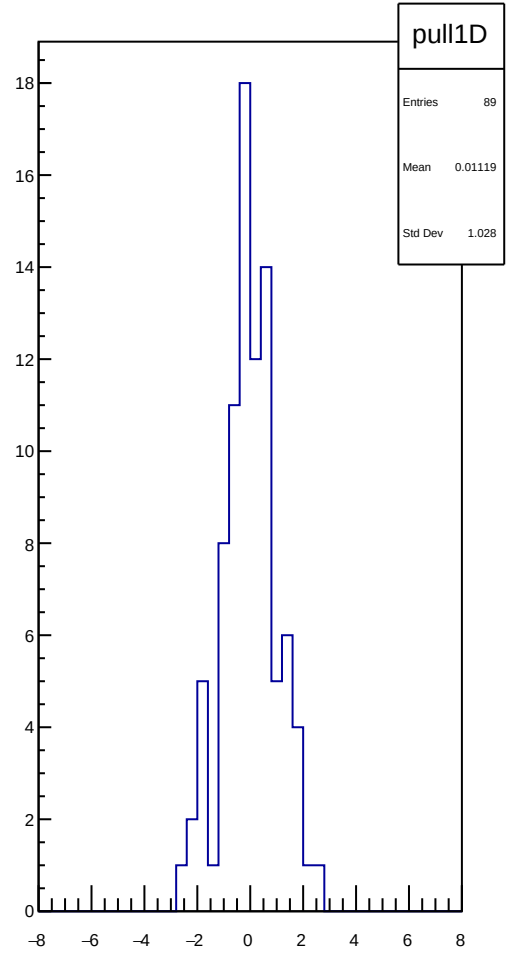

asym_sam_48_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.727e+05 / 88
p0 9.707e−11 ± 8.641e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

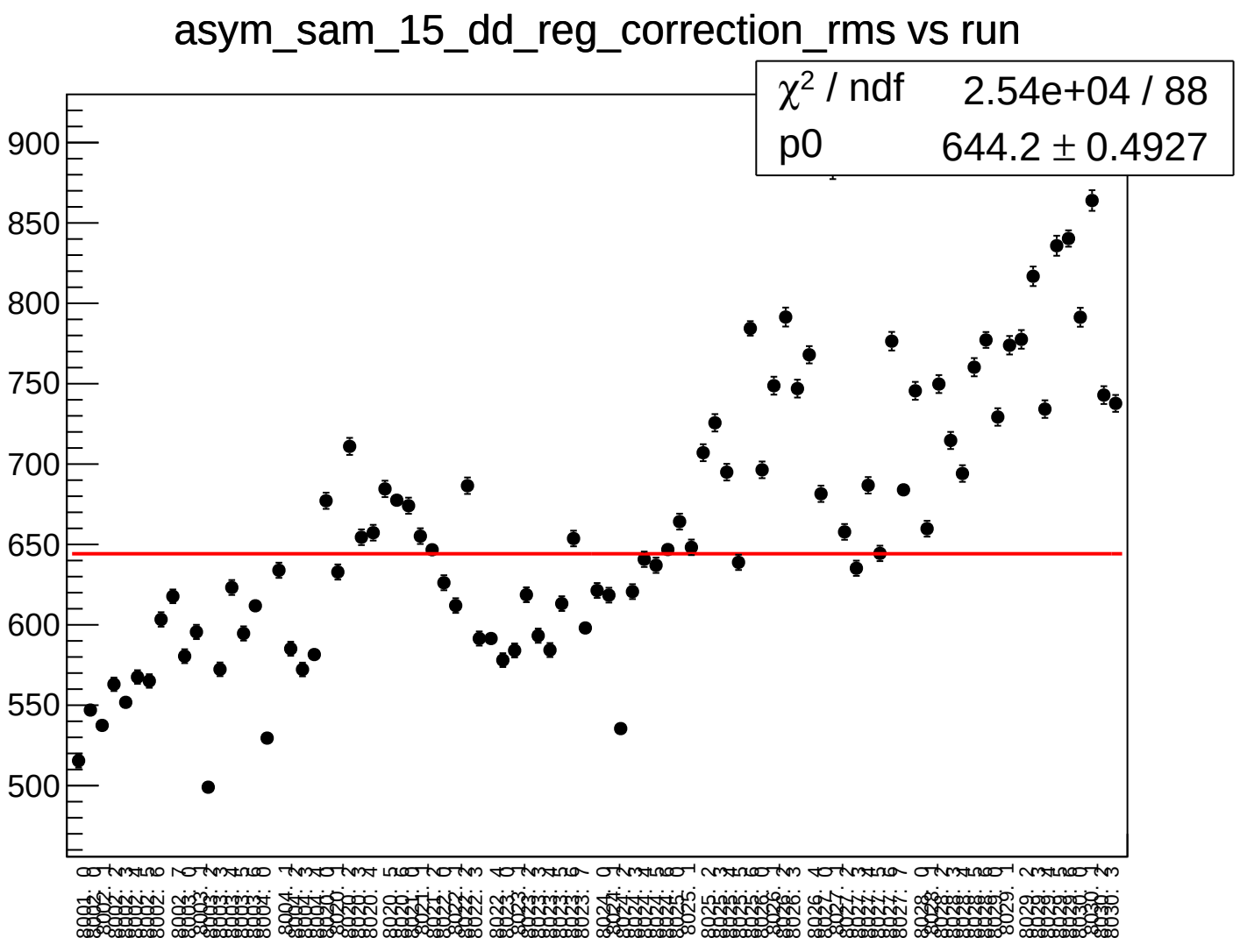

reg_asym_sam_15_dd_mean vs run
χ² / ndf 107.5 / 88
p0 143 ± 93.32
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 89
Mean −573.9
Std Dev 0
3
2
1
0
−1
−2
−3
−4

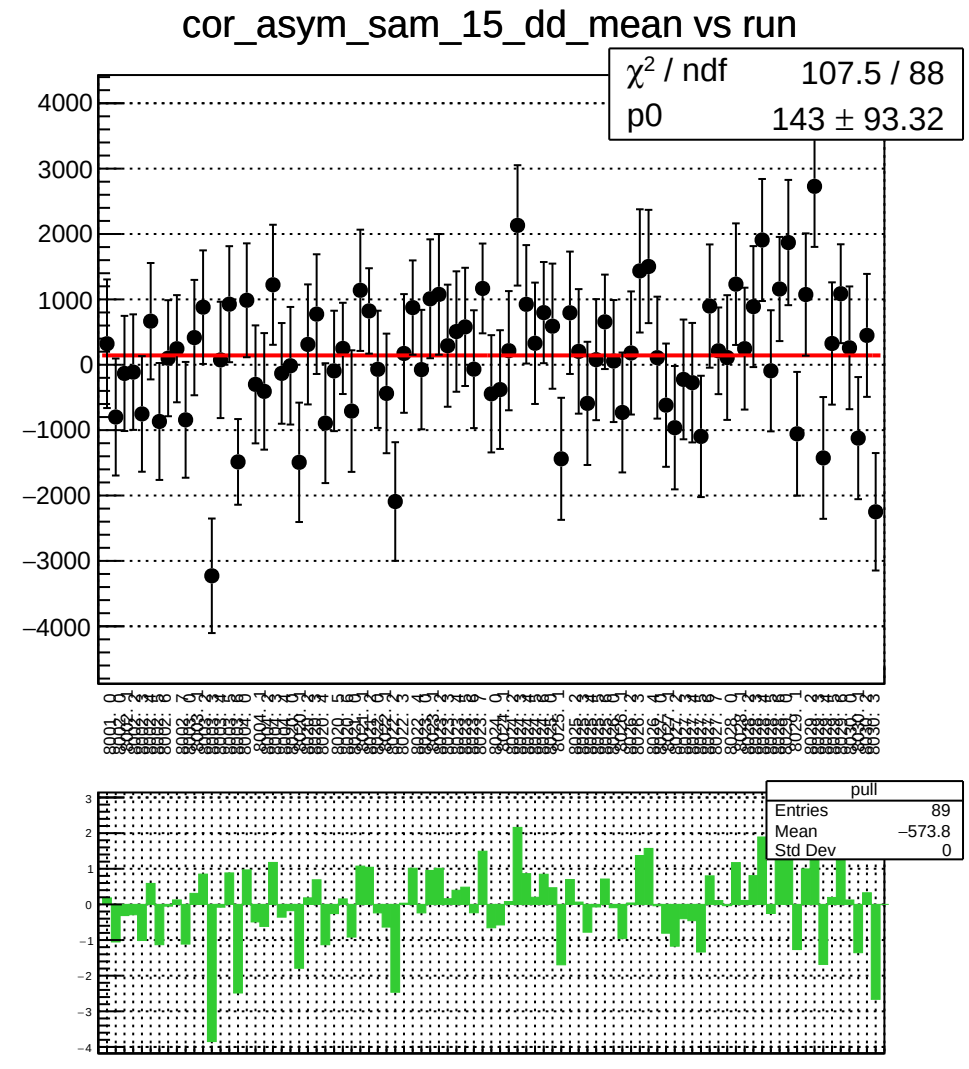

pull1D
Entries 89
Mean −0.008069
Std Dev 1.099
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

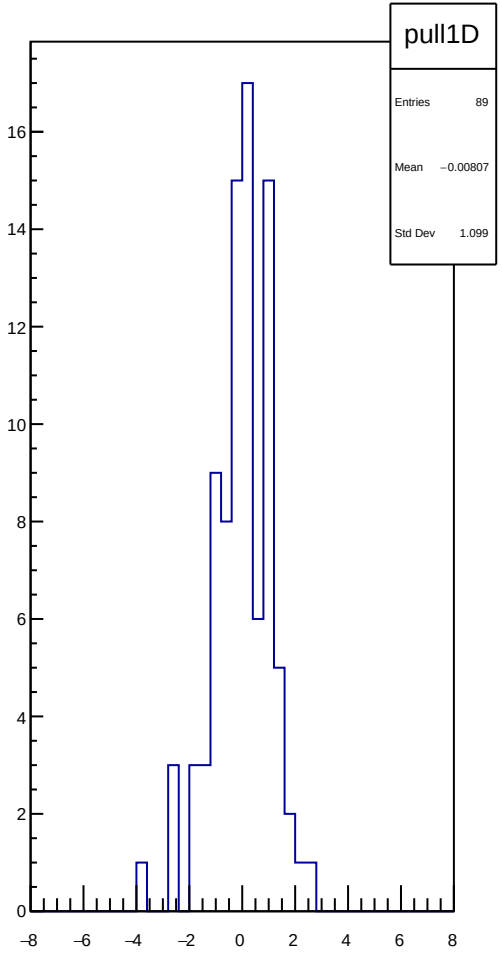

reg_asym_sam_15_dd_rms vs run
χ² / ndf 915.7 / 88
p0 86.89 ± 0.06599
92
90
88
86
84
82

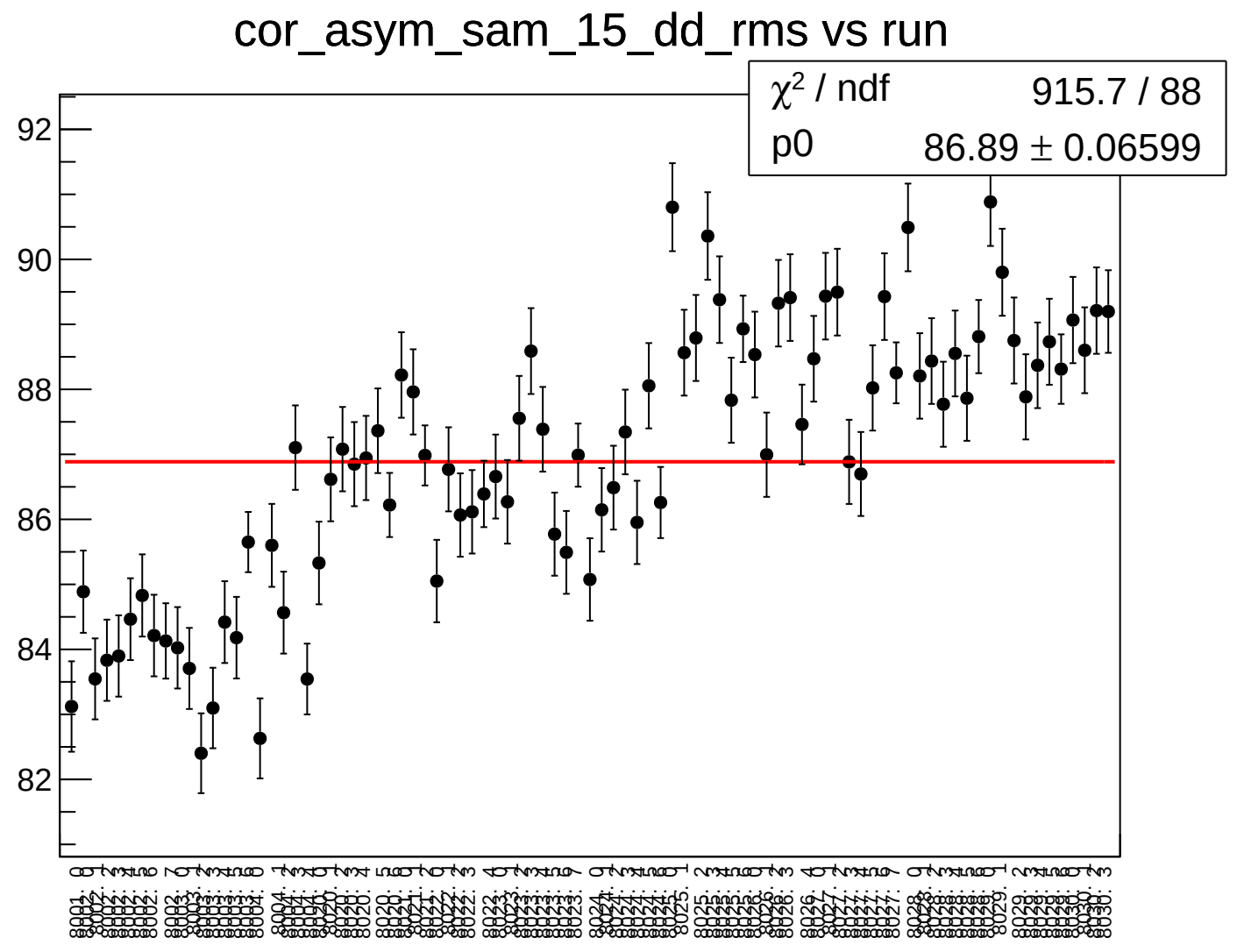

asym_sam_15_dd_reg_correction_mean vs run
χ² / ndf 93.99 / 88
p0 −212.4 ± 696.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 46.13
Std Dev 0
2
1
0
−1
−2

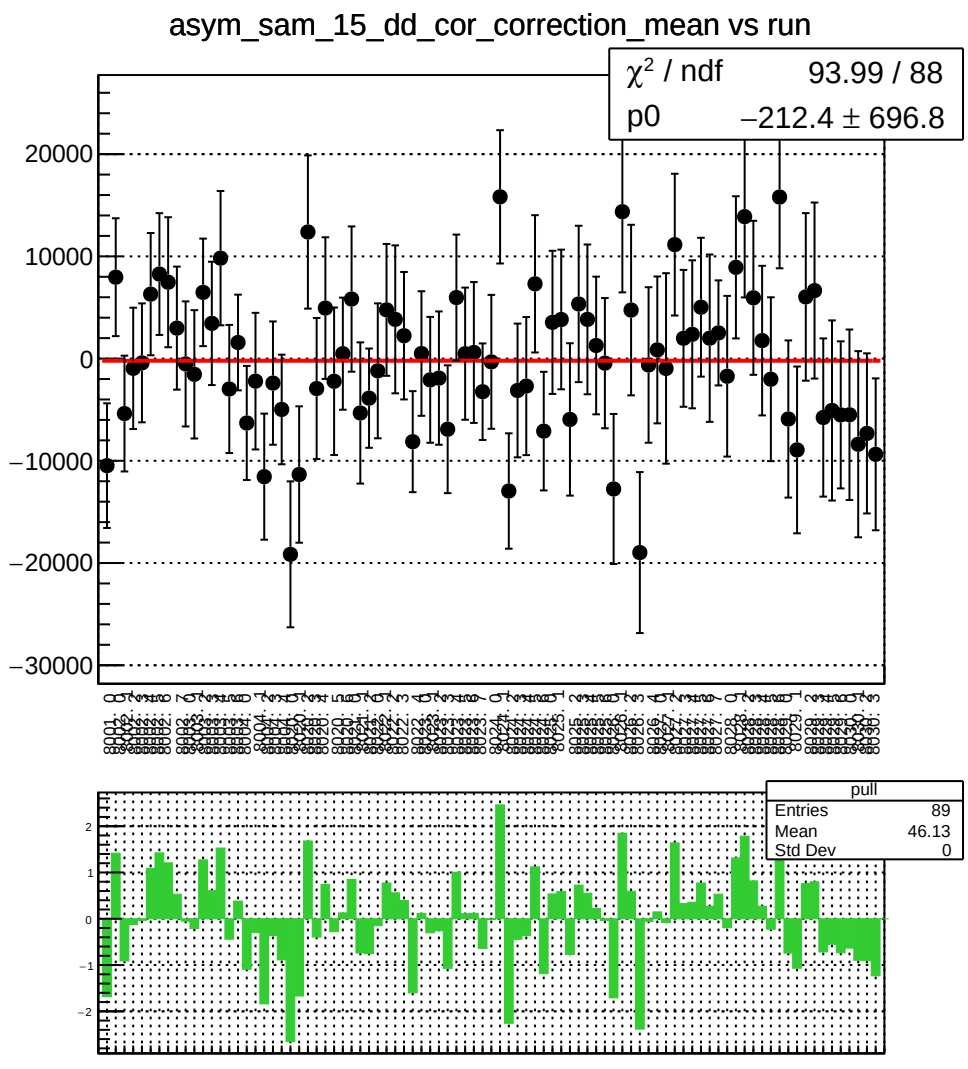

pull1D
Entries 89
Mean 0.01119
Std Dev 1.028
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

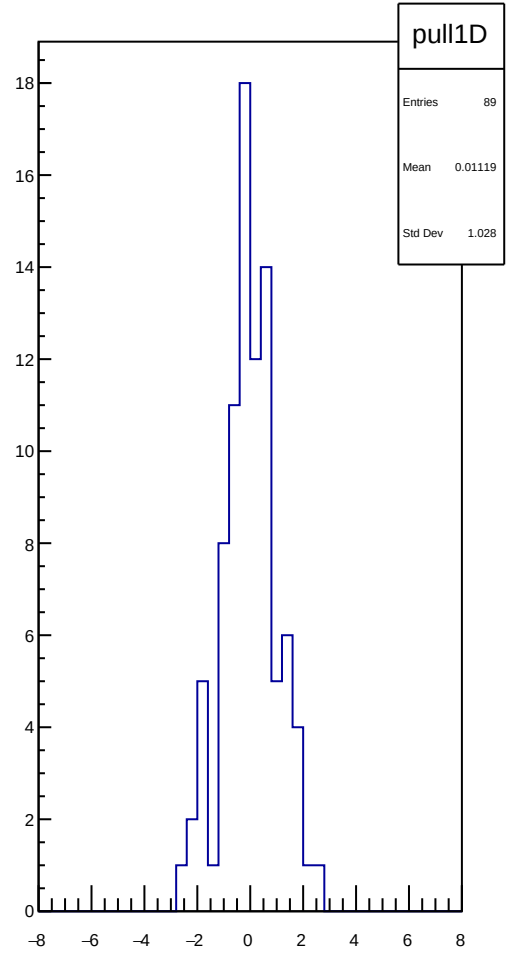

asym_sam_15_dd_reg_correction_rms vs run
χ² / ndf 2.54e+04 / 88
p0 644.2 ± 0.4927
900
850
800
750
700
650
600
550
500

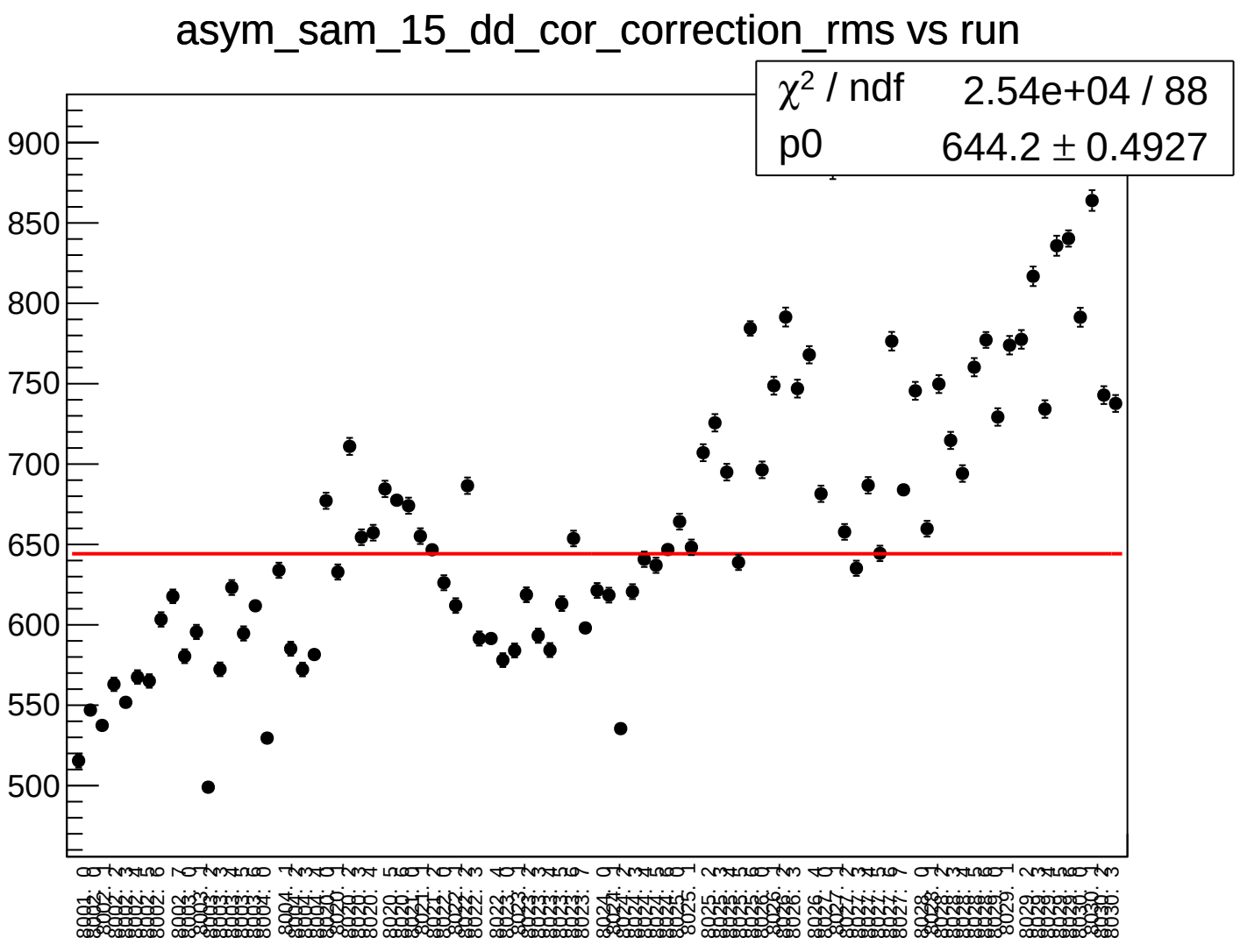

cor_asym_sam_15_dd_mean vs run
χ² / ndf 107.5 / 88
p0 143 ± 93.32
pull
Entries 89
Mean −573.8
Std Dev 0

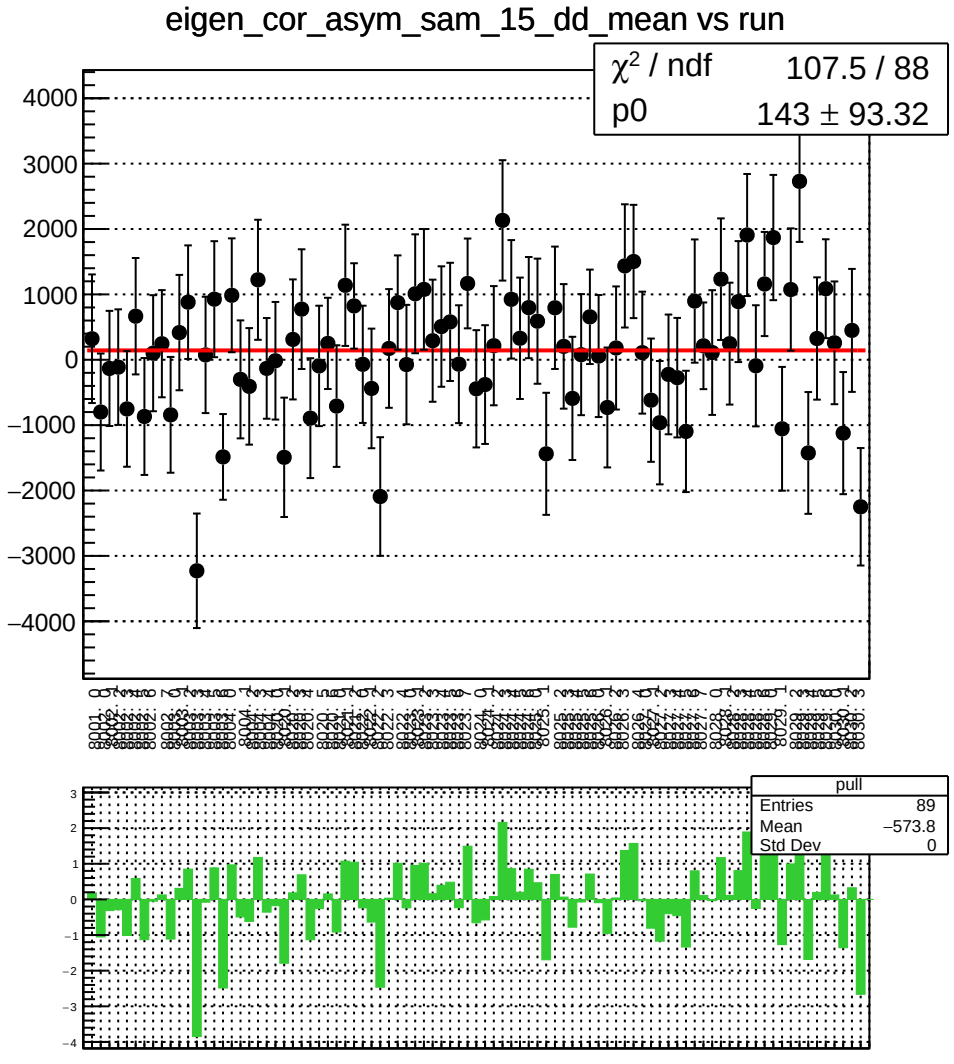

pull1D
Entries 89
Mean −0.00807
Std Dev 1.099

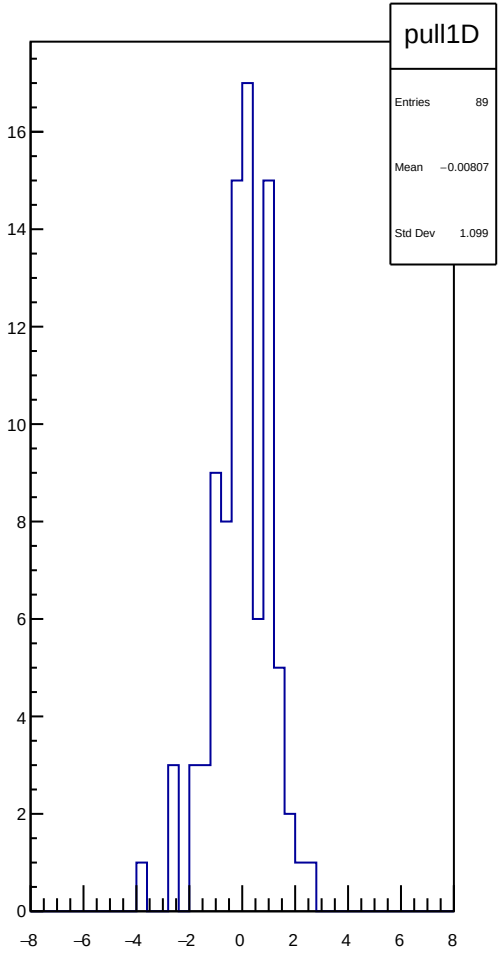

cor_asym_sam_15_dd_rms vs run
χ² / ndf 915.7 / 88
p0 86.89 ± 0.06599
92
90
88
86
84
82

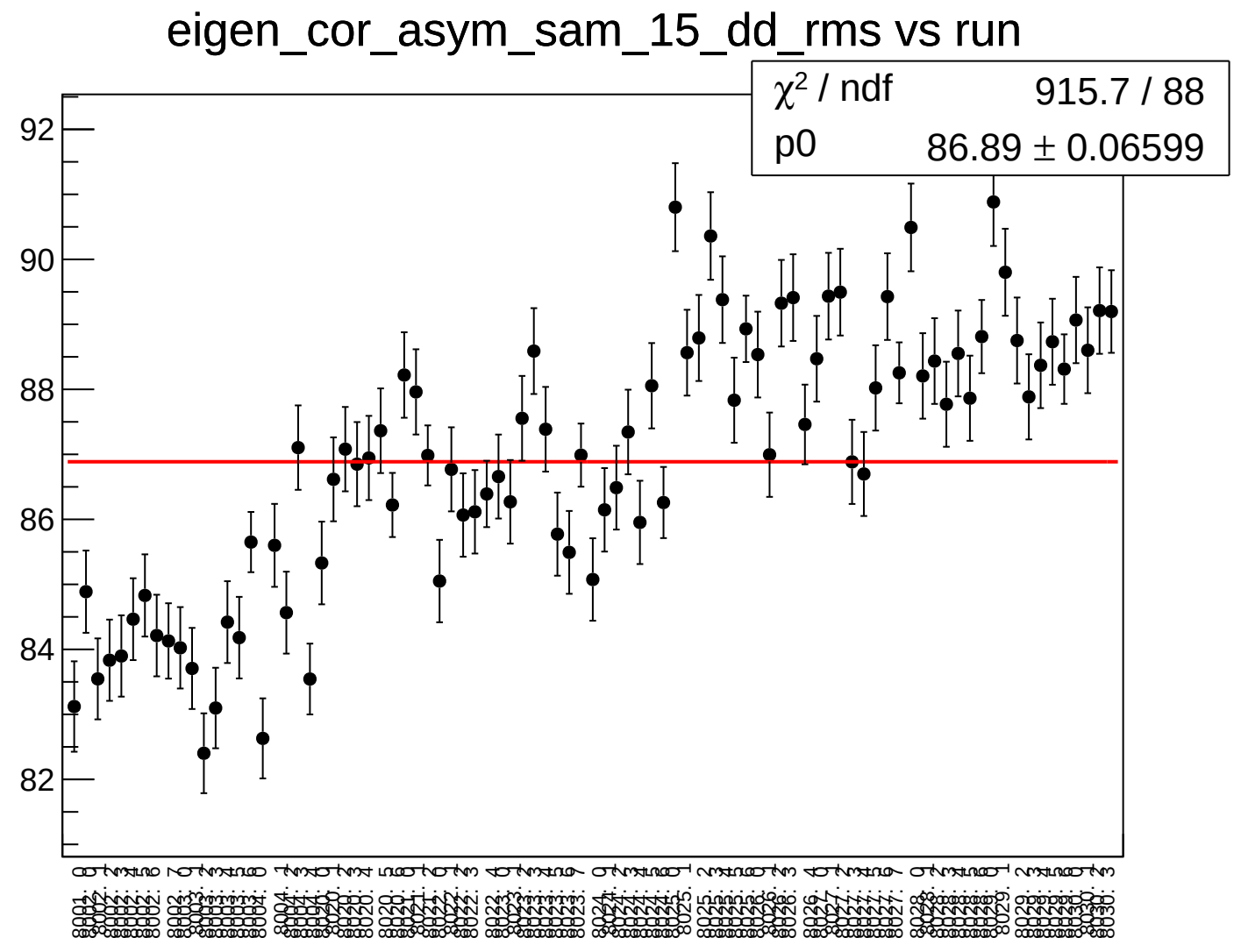

asym_sam_15_dd_cor_correction_mean vs run
χ² / ndf 93.99 / 88
p0 −212.4 ± 696.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 46.13
Std Dev 0
2
1
0
−1
−2

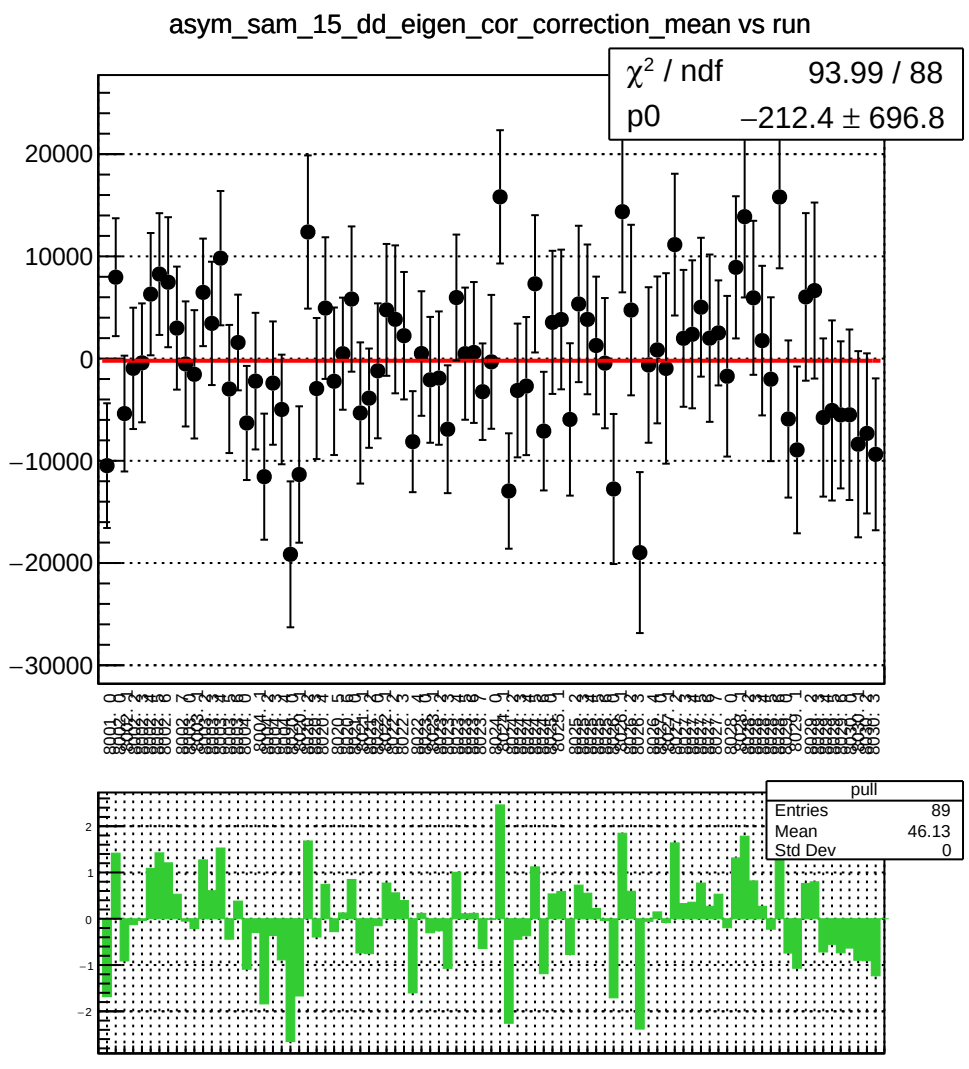

pull1D
Entries 89
Mean 0.01119
Std Dev 1.028
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

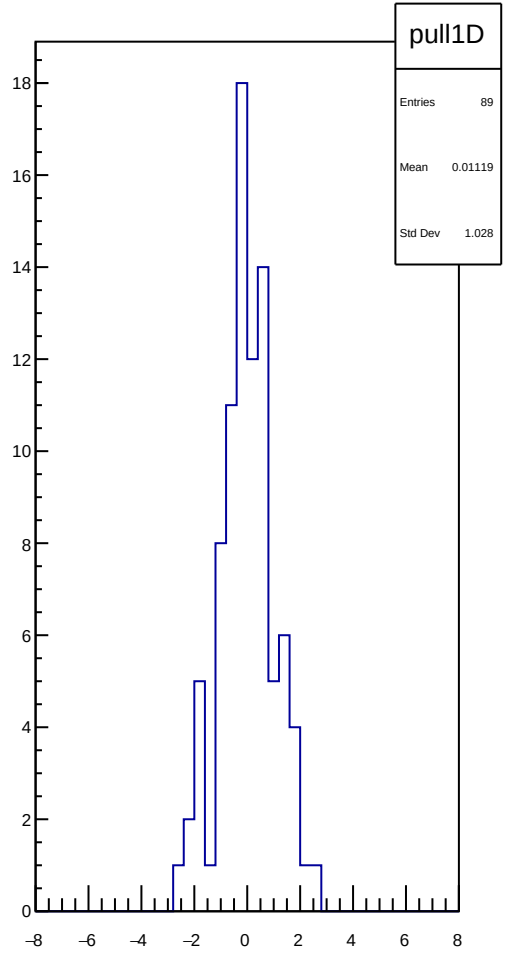

asym_sam_15_dd_cor_correction_rms vs run
χ² / ndf 2.54e+04 / 88
p0 644.2 ± 0.4927
900
850
800
750
700
650
600
550
500

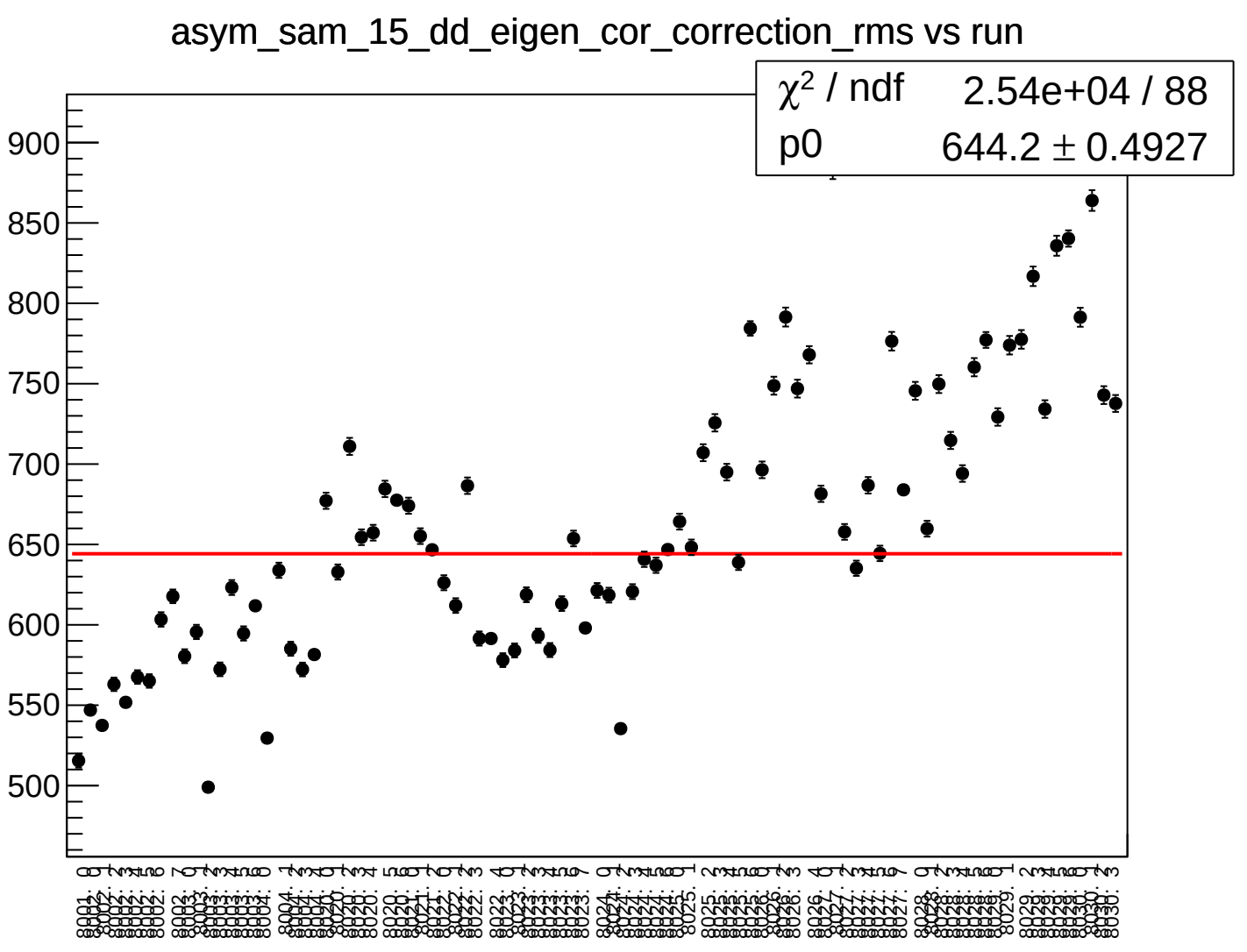

eigen_cor_asym_sam_15_dd_mean vs run
χ² / ndf 107.5 / 88
p0 143 ± 93.32
pull
Entries 89
Mean −573.8
Std Dev 0

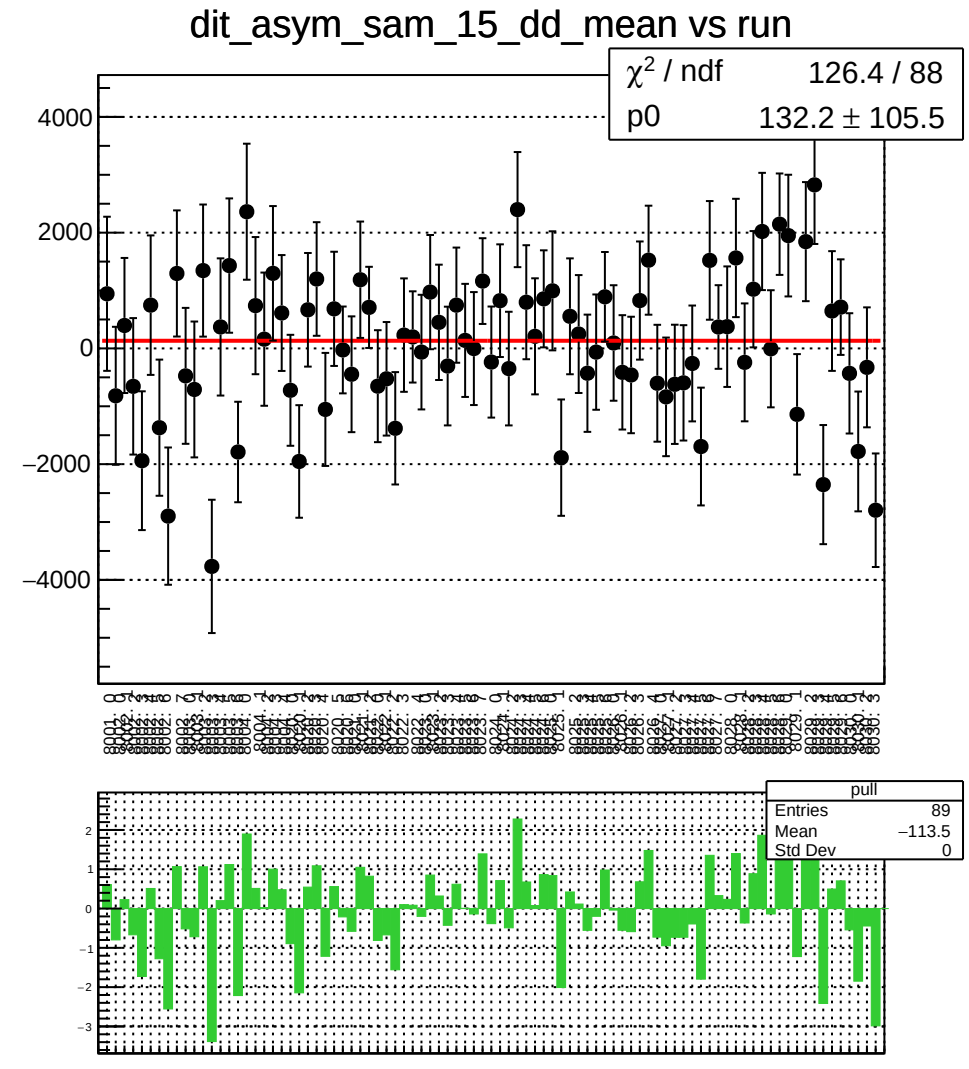

pull1D
Entries 89
Mean −0.00807
Std Dev 1.099

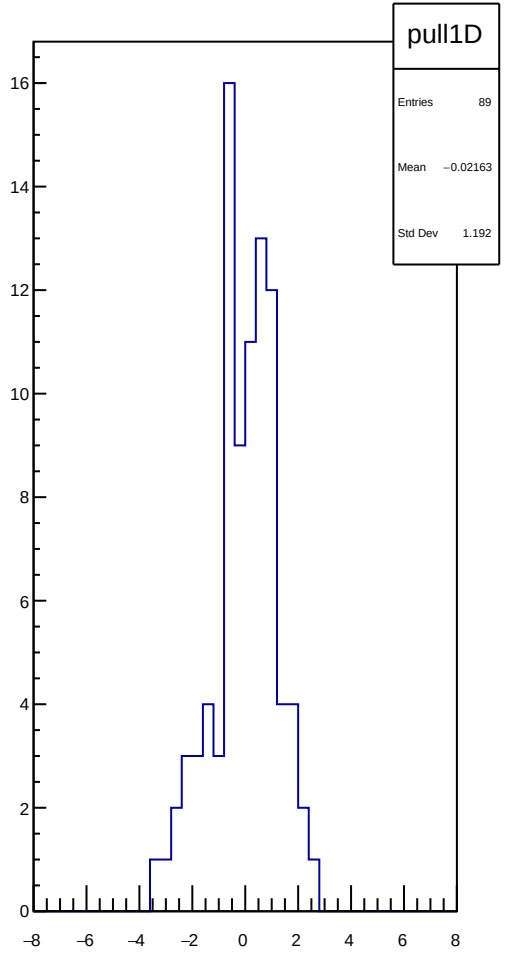

eigen_cor_asym_sam_15_dd_rms vs run
χ² / ndf 915.7 / 88
p0 86.89 ± 0.06599
92
90
88
86
84
82

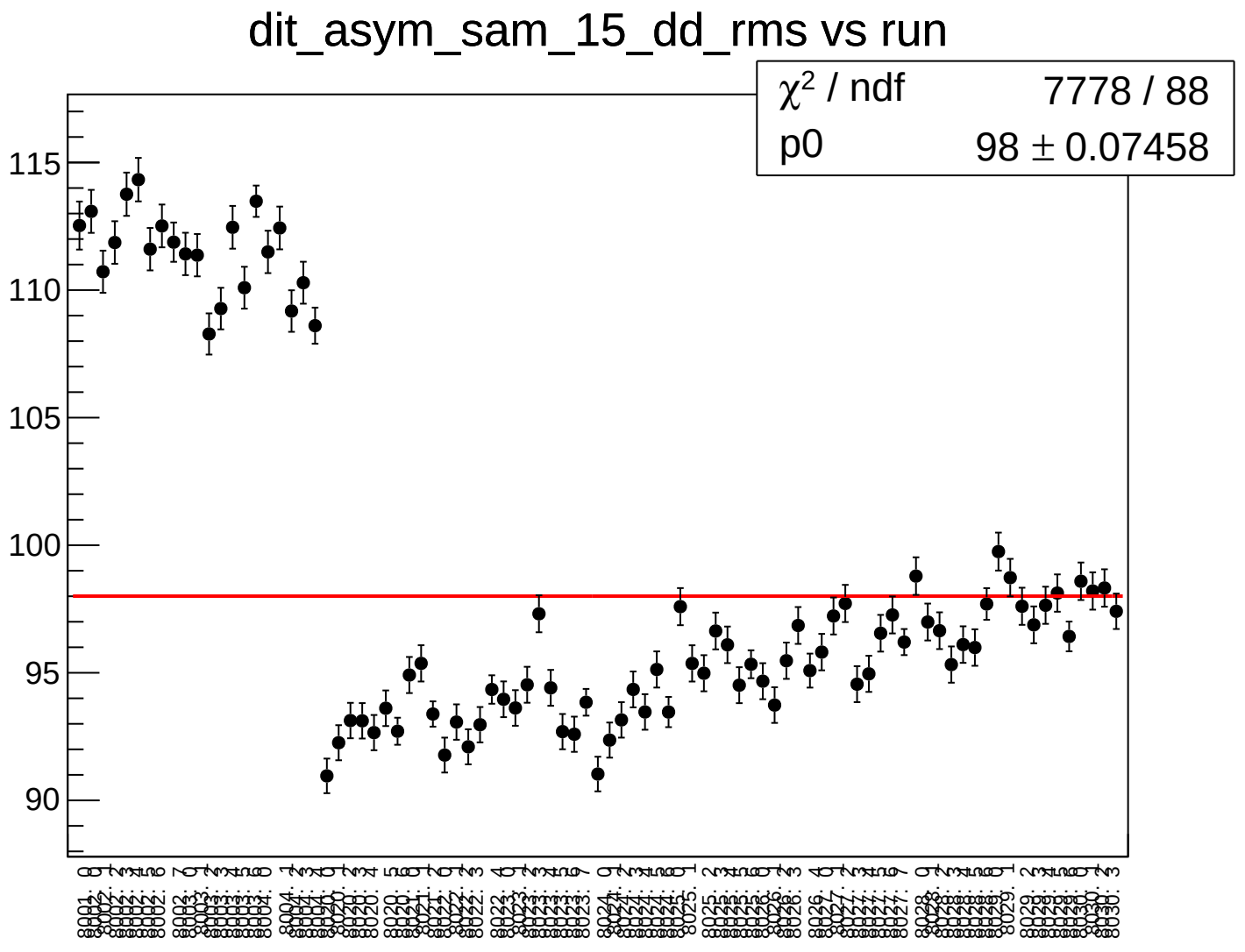

asym_sam_15_dd_eigen_cor_correction_mean vs run
χ² / ndf 93.99 / 88
p0 −212.4 ± 696.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 46.13
Std Dev 0
2
1
0
−1
−2

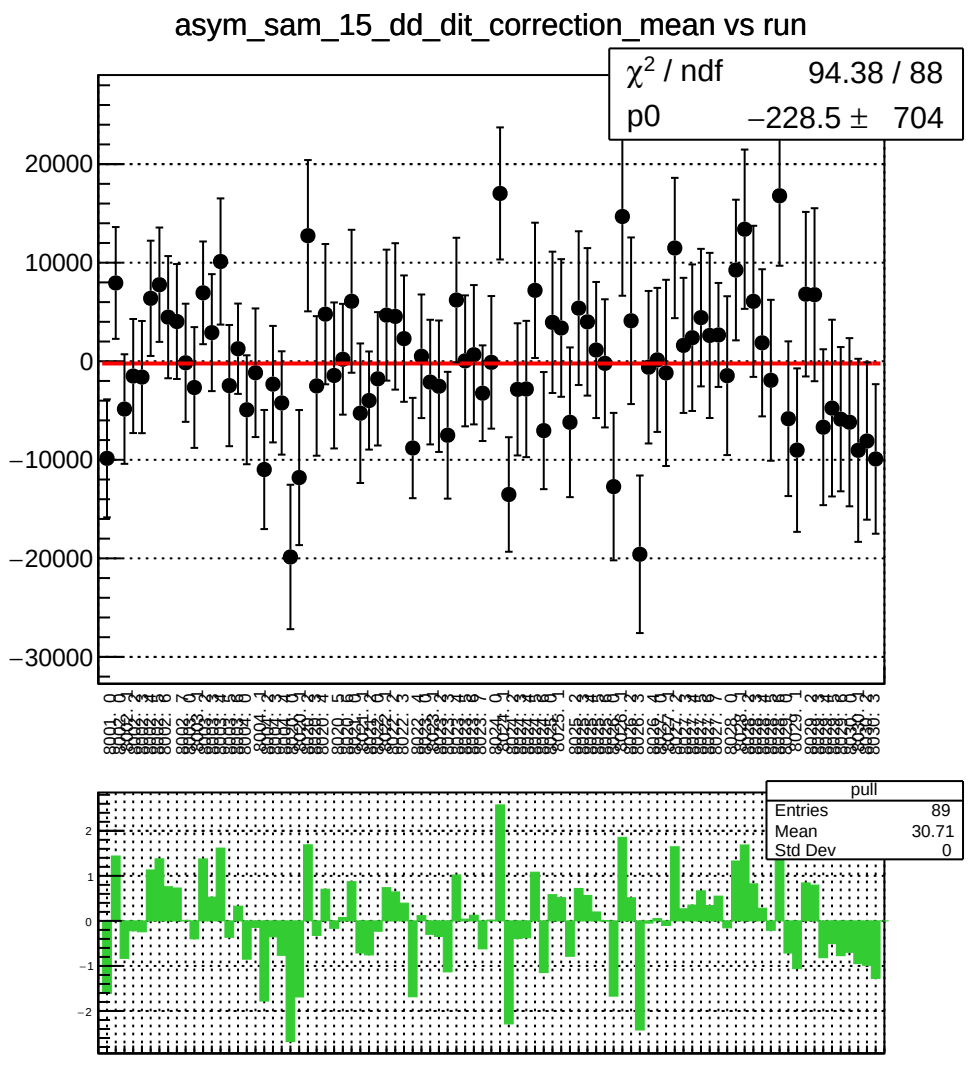

pull1D
Entries 89
Mean 0.01119
Std Dev 1.028
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

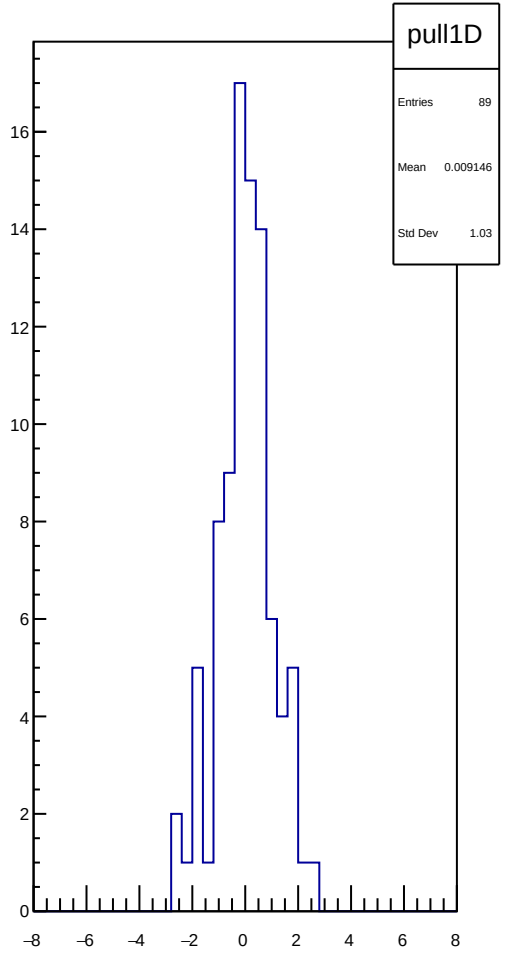

asym_sam_15_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.54e+04 / 88
p0 644.2 ± 0.4927
900
850
800
750
700
650
600
550
500

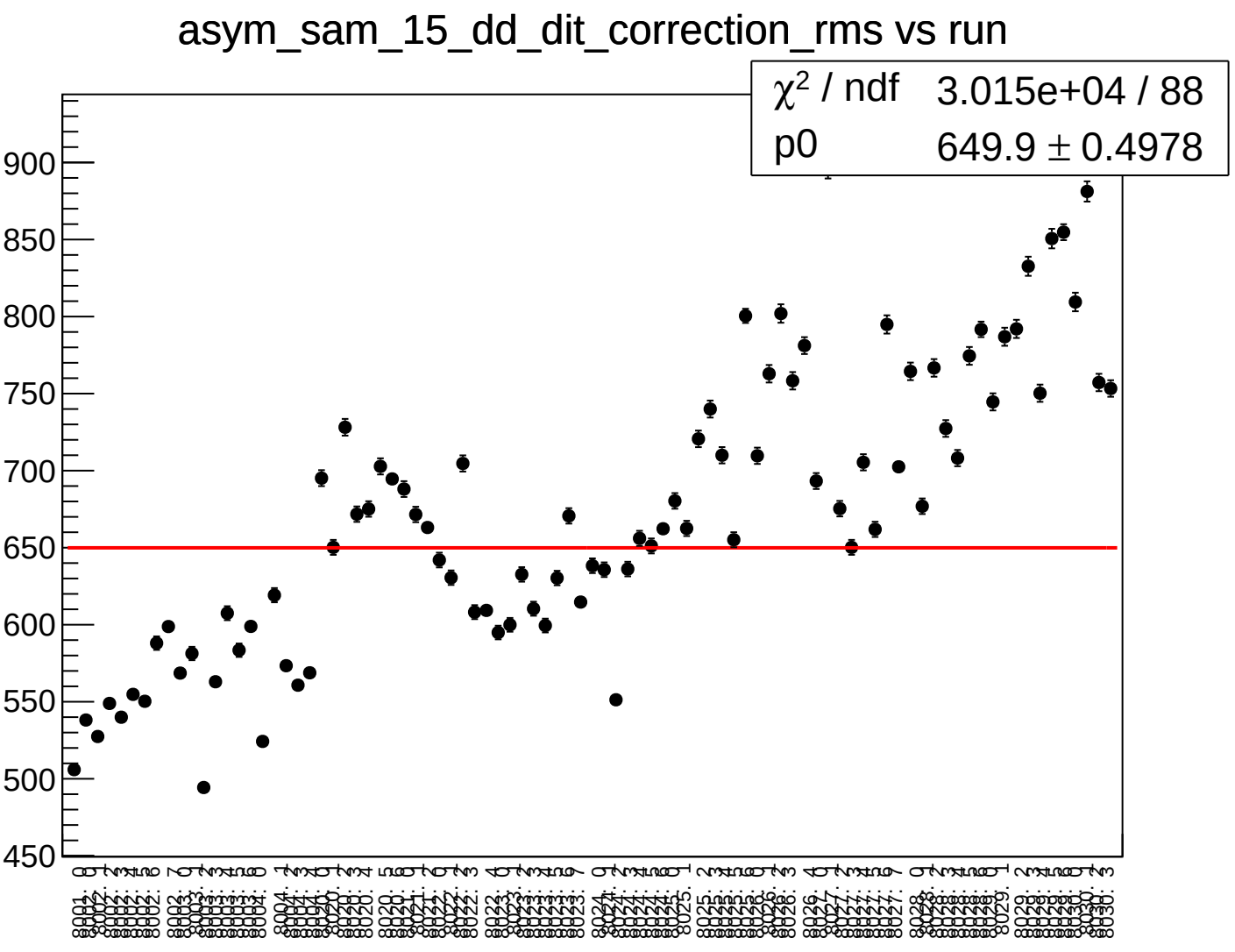

dit_asym_sam_15_dd_mean vs run
χ² / ndf 126.4 / 88
p0 132.2 ± 105.5
4000
2000
0
−2000
−4000
pull
Entries 89
Mean −113.5
Std Dev 0
2
1
0
−1
−2
−3

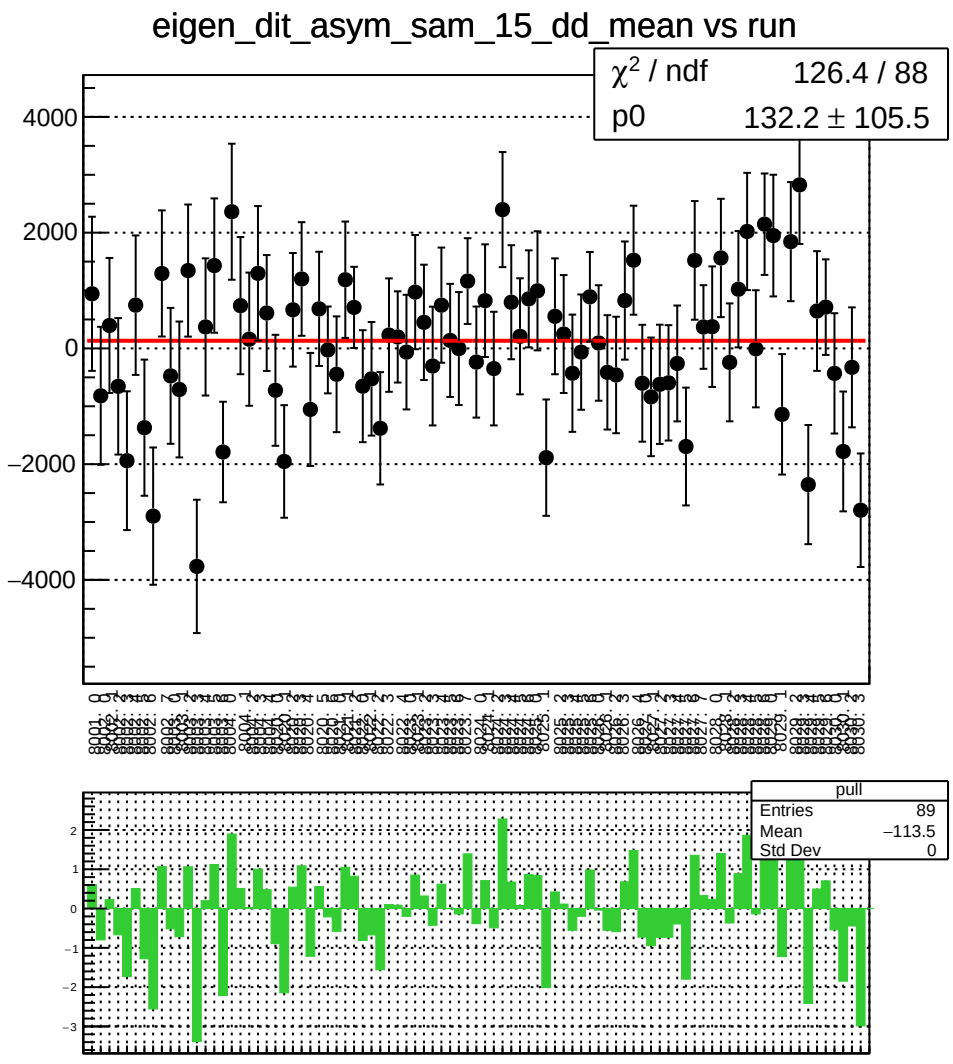

pull1D
Entries 89
Mean −0.02163
Std Dev 1.192
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

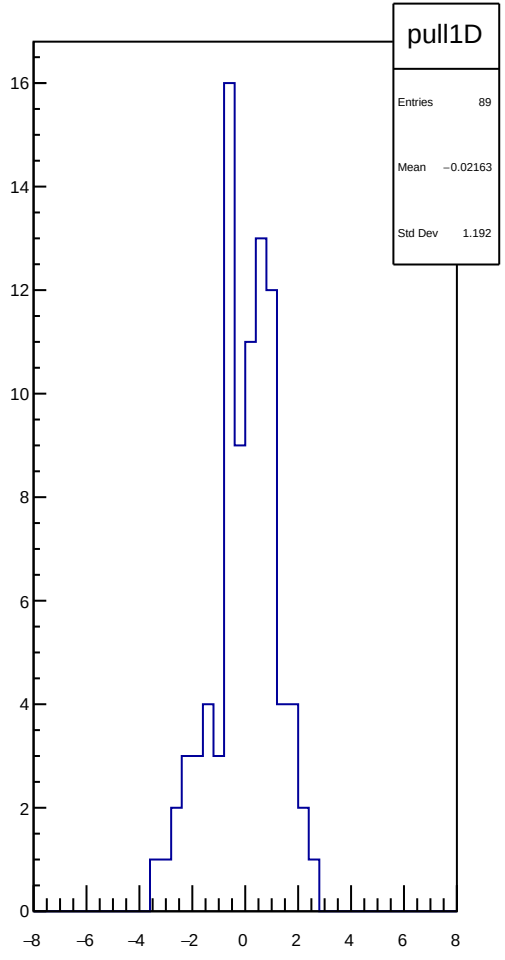

dit_asym_sam_15_dd_rms vs run
χ² / ndf 7778 / 88
p0 98 ± 0.07458
115
110
105
100
95
90

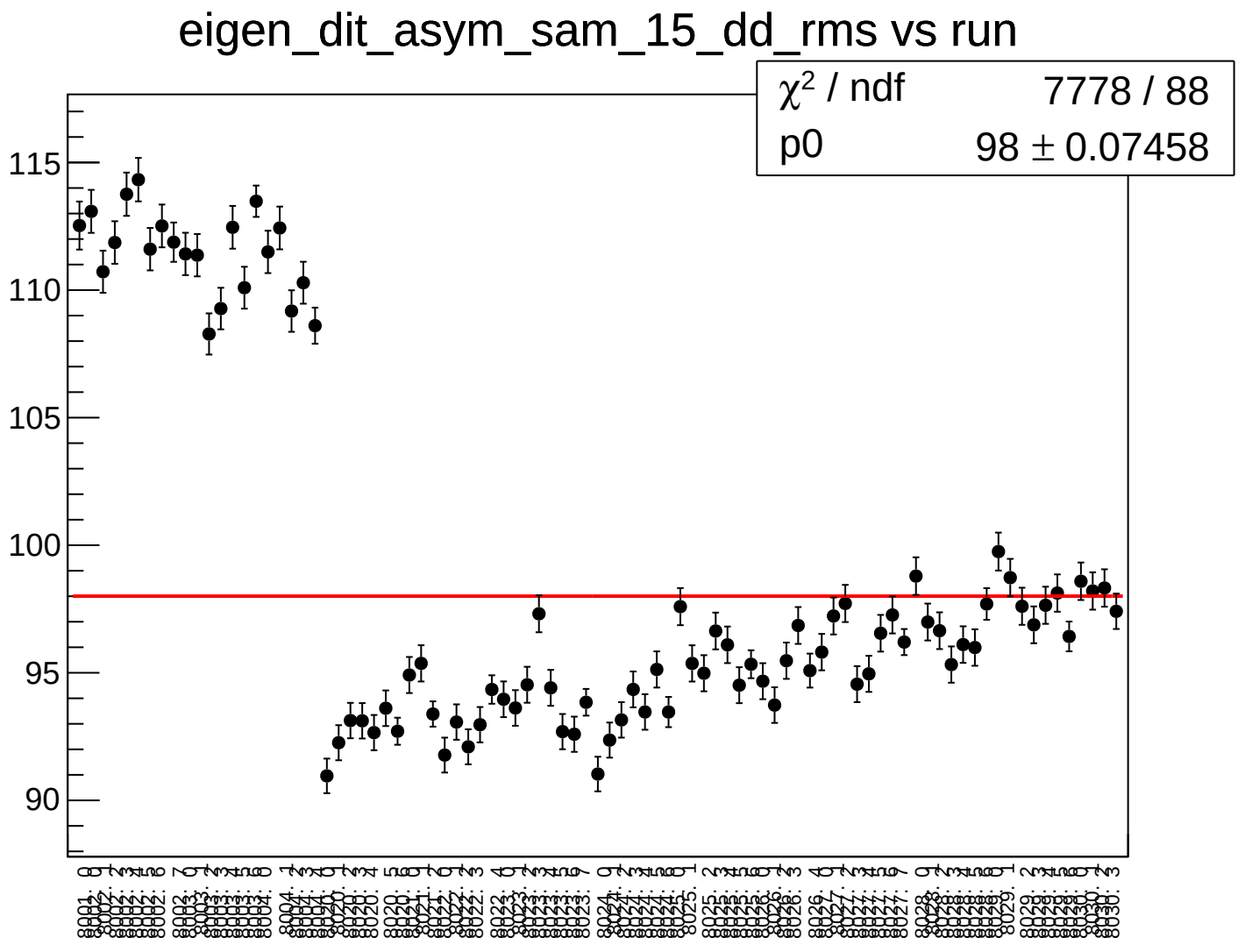

asym_sam_15_dd_dit_correction_mean vs run
χ² / ndf 94.38 / 88
p0 −228.5 ± 704
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 30.71
Std Dev 0
2
1
0
−1
−2

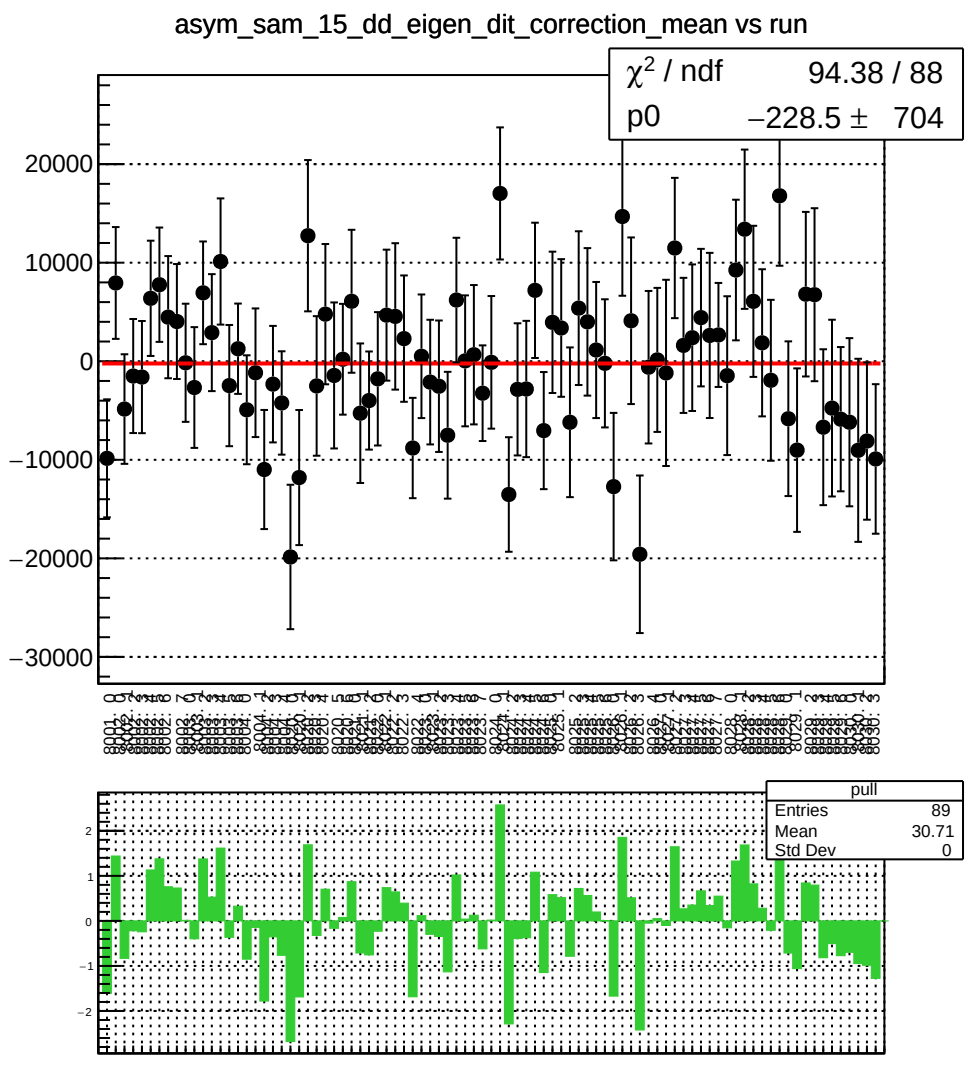

pull1D
Entries 89
Mean 0.009146
Std Dev 1.03
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

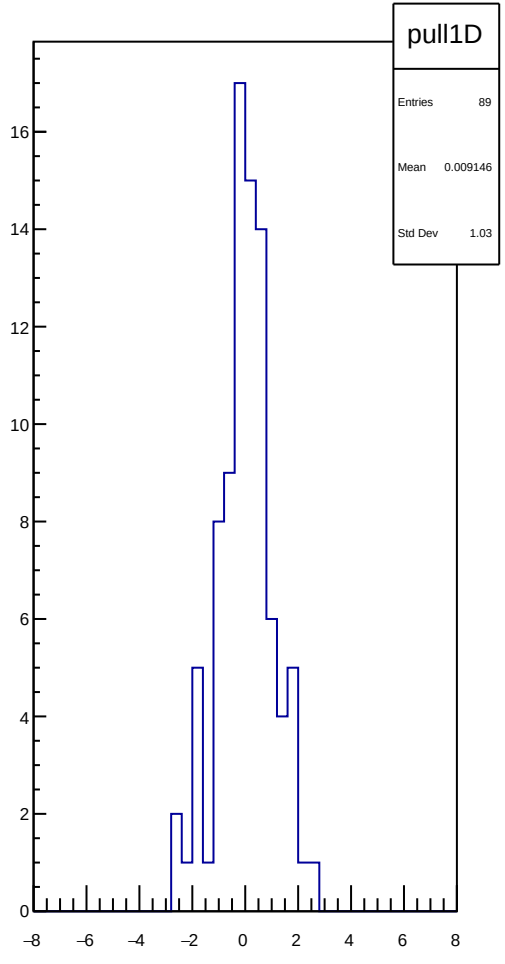

asym_sam_15_dd_dit_correction_rms vs run
χ² / ndf 3.015e+04 / 88
p0 649.9 ± 0.4978
900
850
800
750
700
650
600
550
500
450

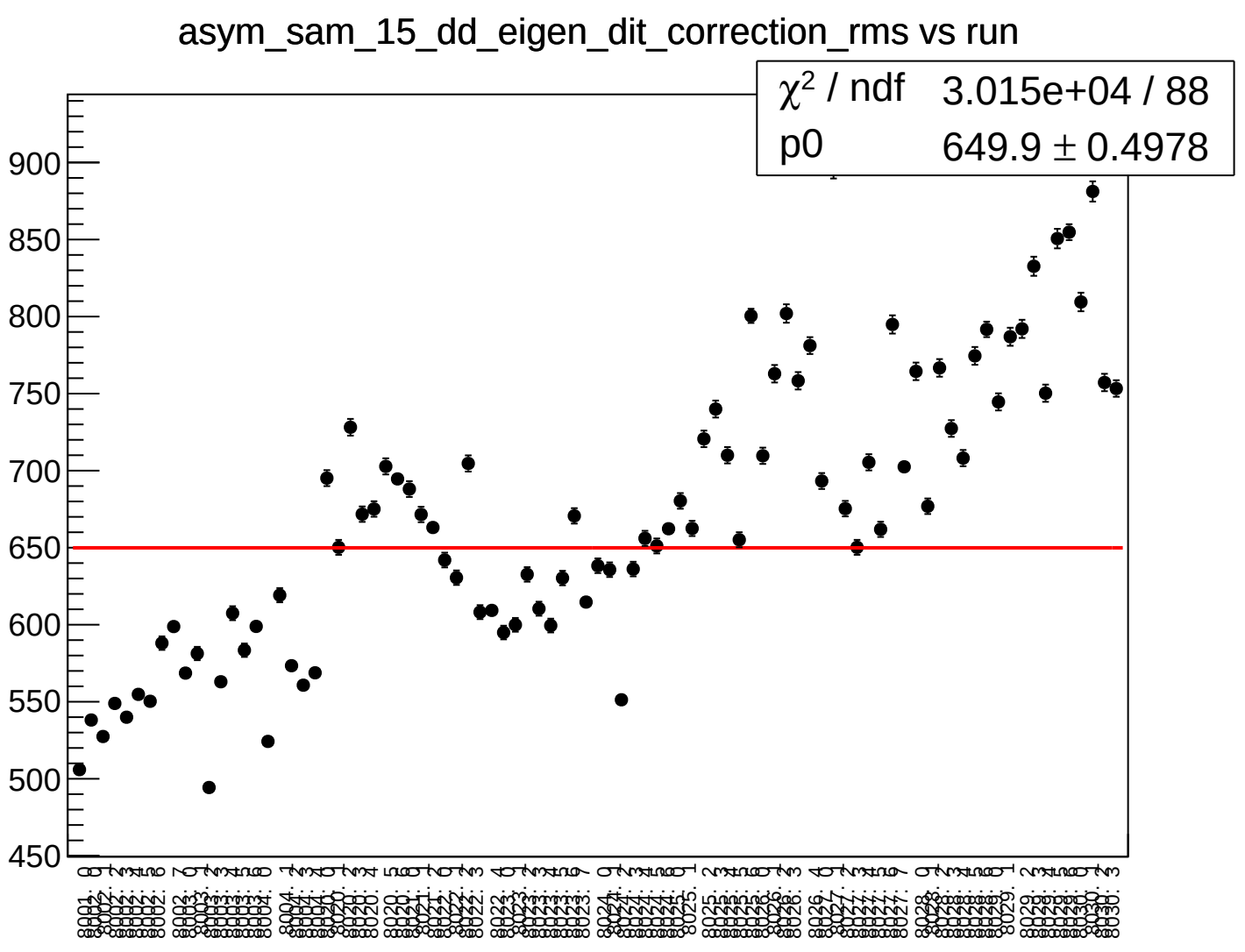

eigen_dit_asym_sam_15_dd_mean vs run
χ^2 / ndf 126.4 / 88
p0 132.2 ± 105.5
4000
2000
0
−2000
−4000
pull
Entries 89
Mean −113.5
Std Dev 0
2
1
0
−1
−2
−3

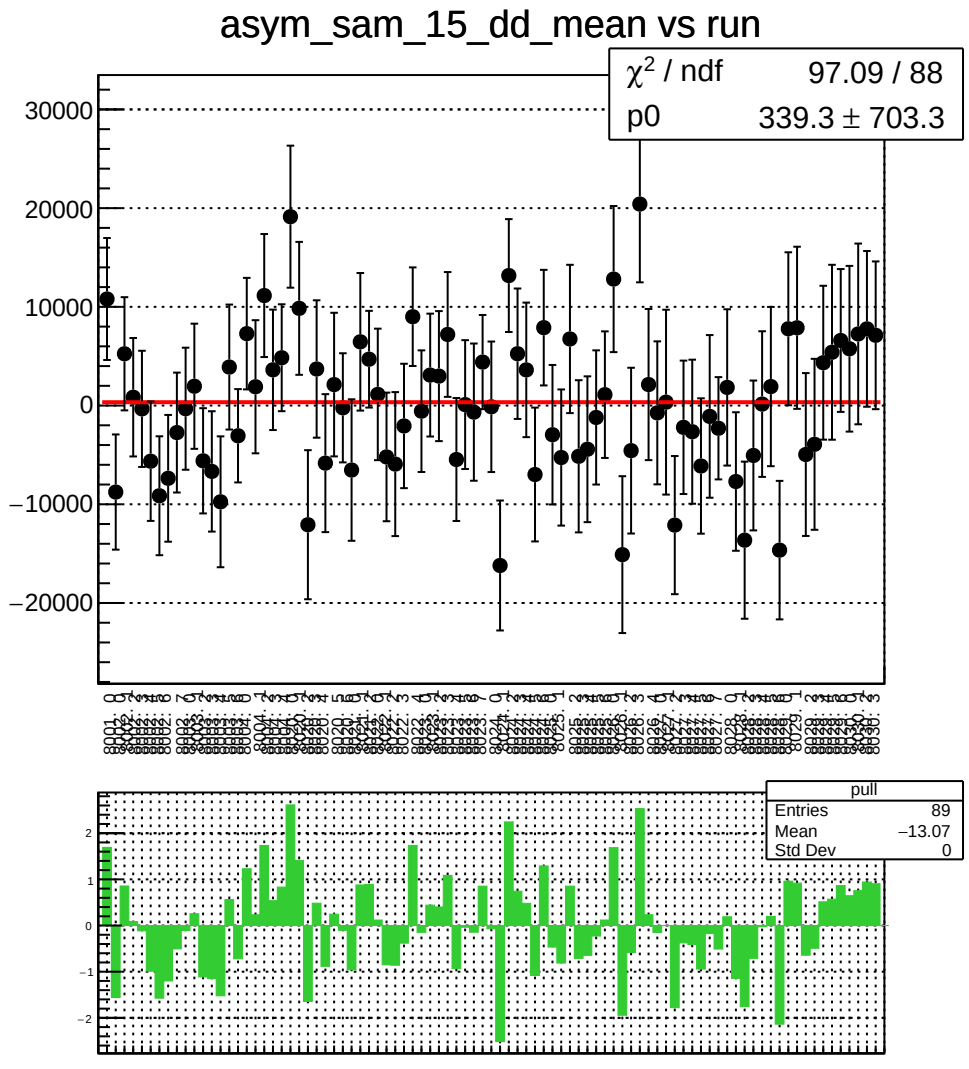

pull1D
Entries 89
Mean −0.02163
Std Dev 1.192
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

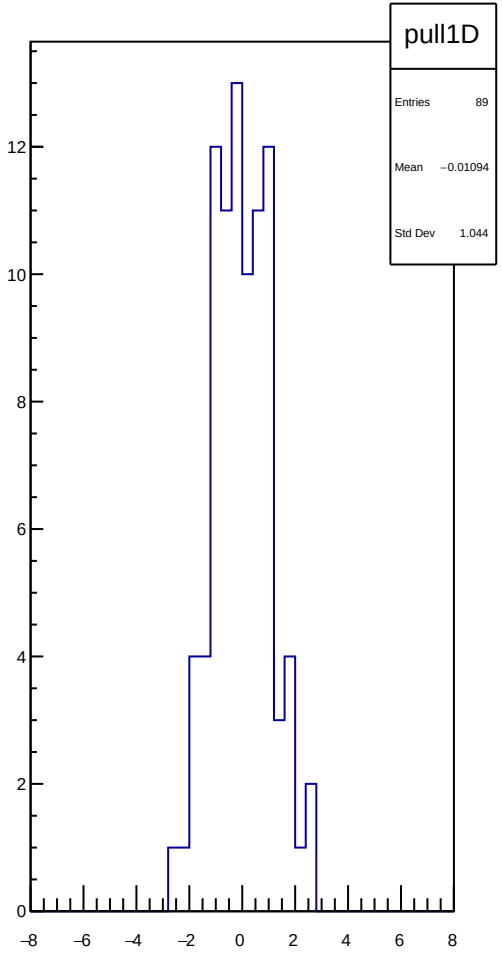

eigen_dit_asym_sam_15_dd_rms vs run
χ² / ndf 7778 / 88
p0 98 ± 0.07458
115
110
105
100
95
90

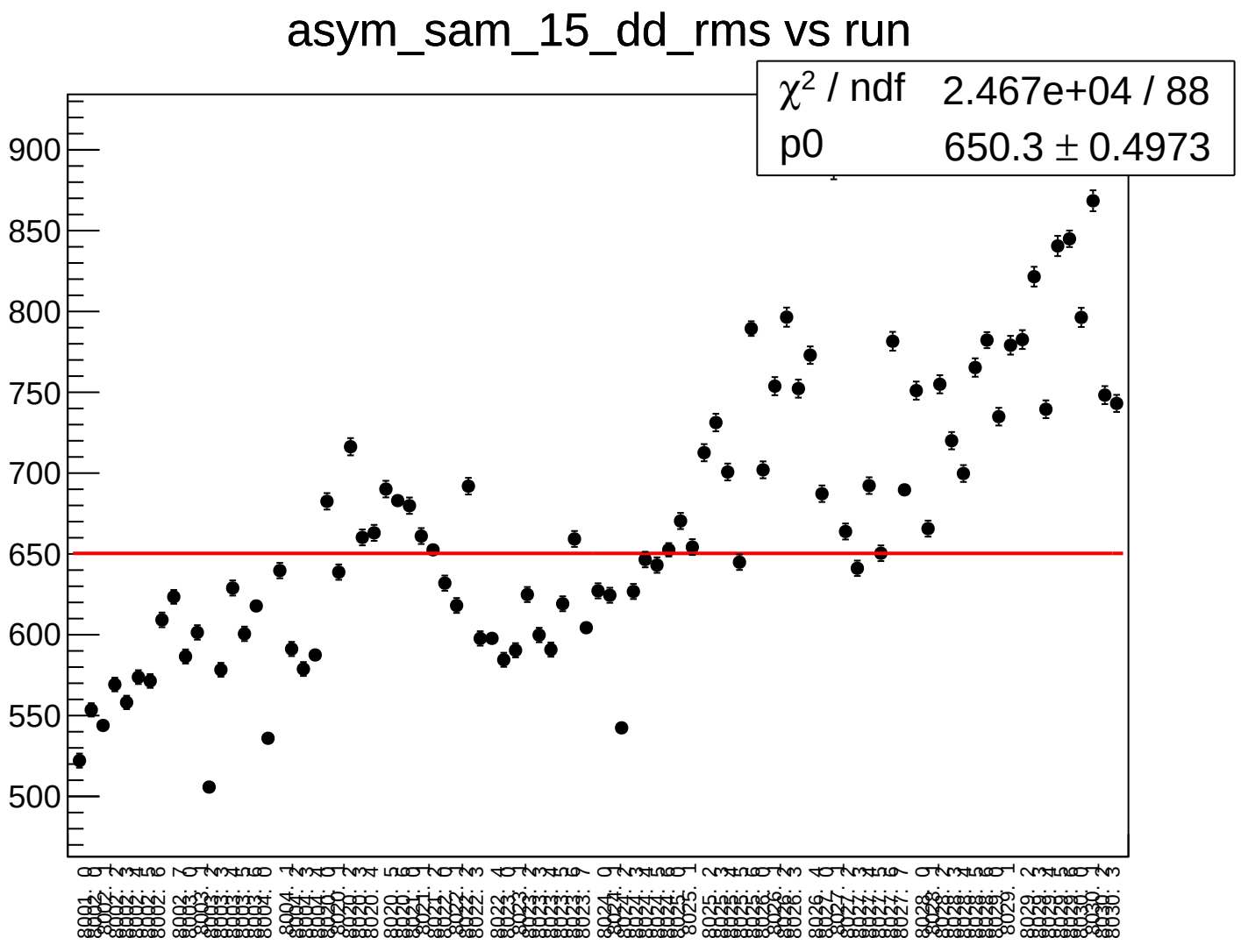

asym_sam_15_dd_eigen_dit_correction_mean vs run
χ² / ndf 94.38 / 88
p0 −228.5 ± 704
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 30.71
Std Dev 0
2
1
0
−1
−2

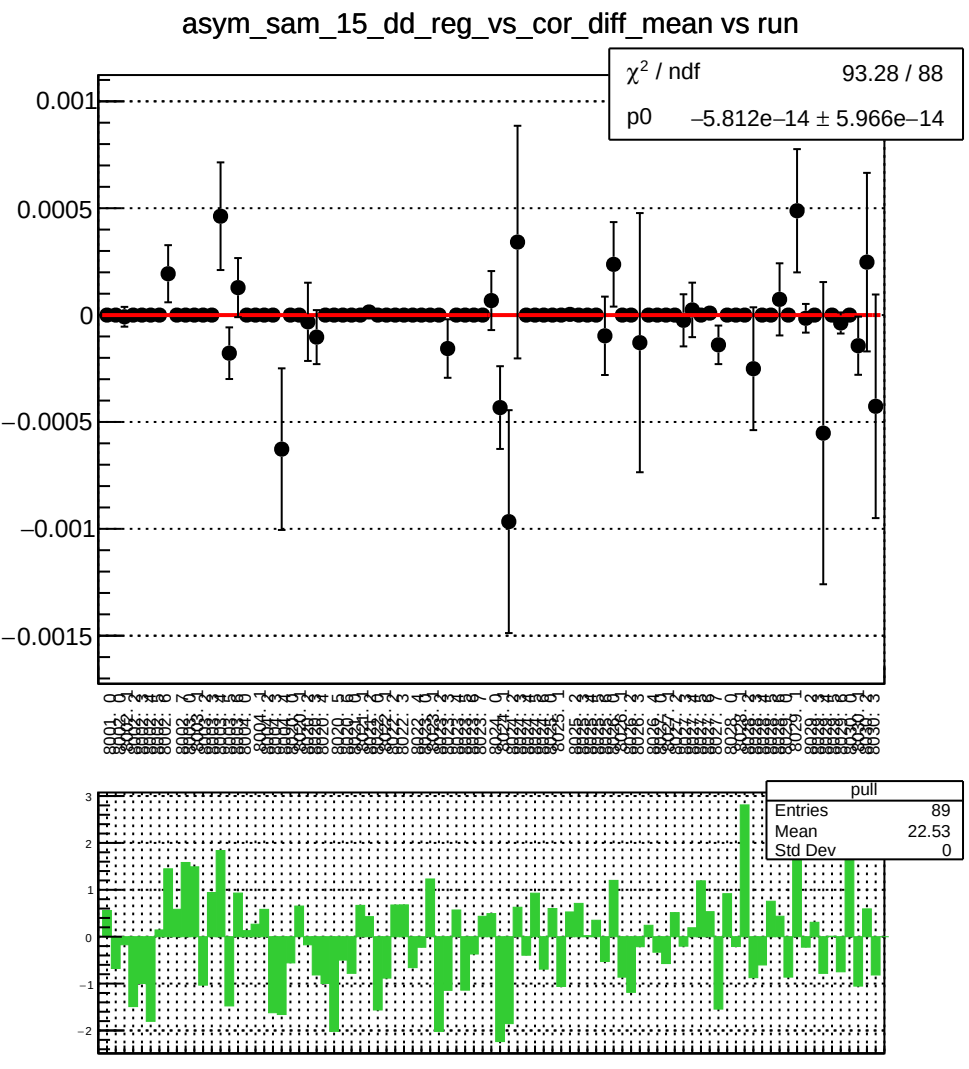

pull1D
Entries 89
Mean 0.009146
Std Dev 1.03
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

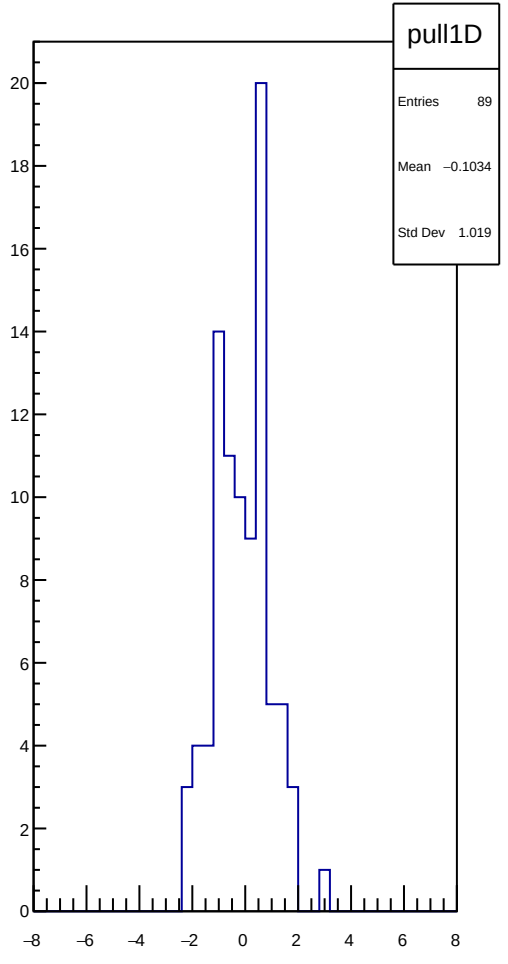

asym_sam_15_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.015e+04 / 88
p0 649.9 ± 0.4978
900
850
800
750
700
650
600
550
500
450

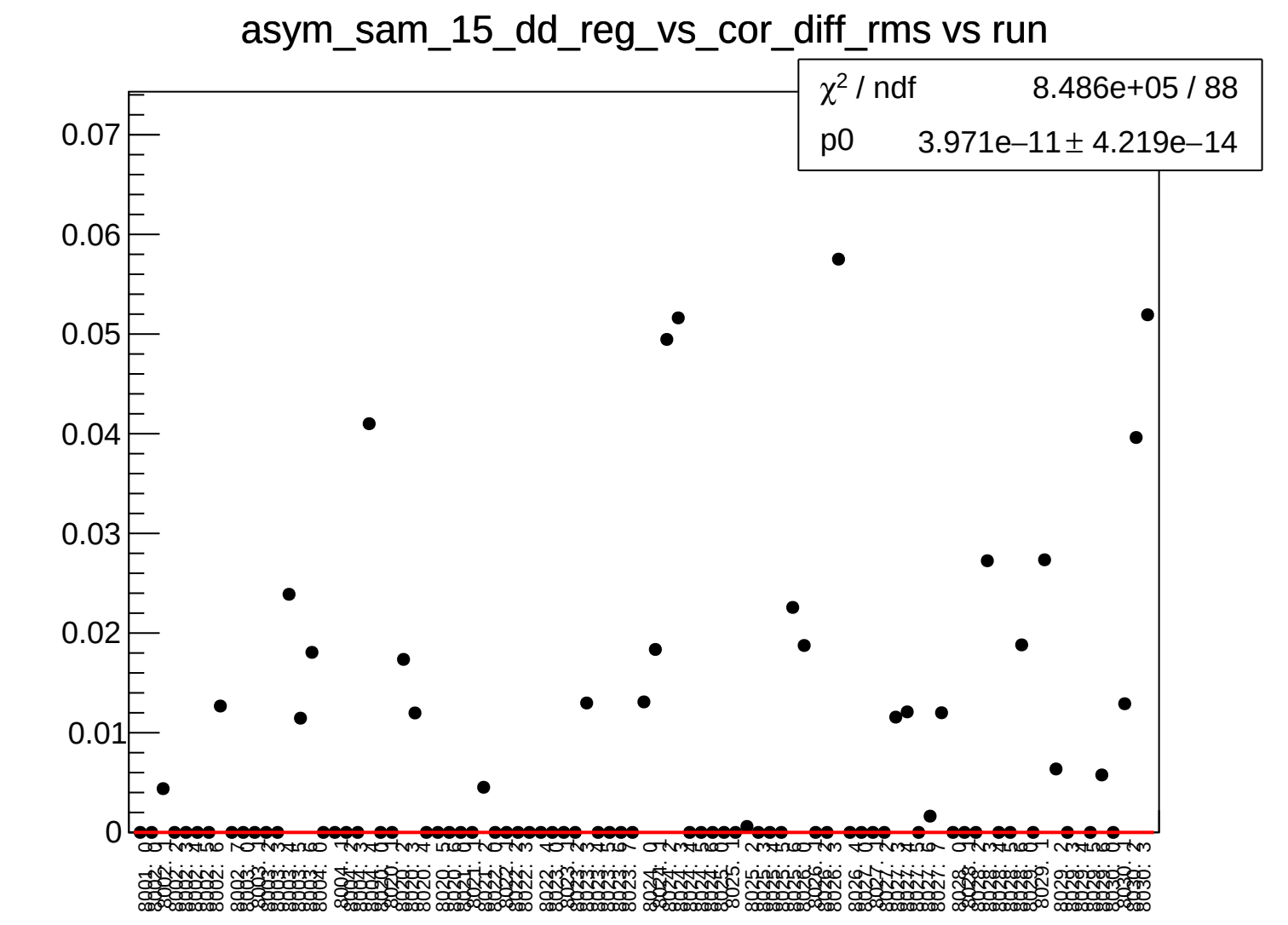

asym_sam_15_dd_mean vs run
χ² / ndf 97.09 / 88
p0 339.3 ± 703.3
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −13.07
Std Dev 0
2
1
0
−1
−2

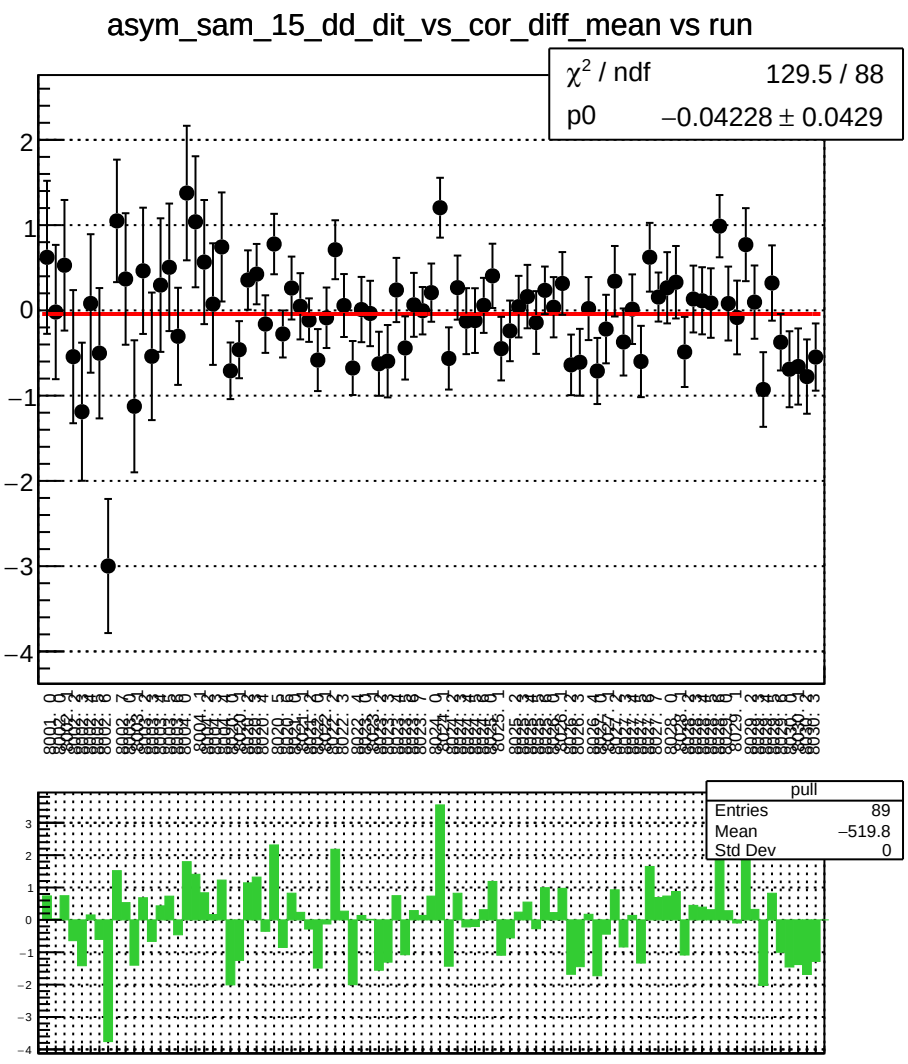

pull1D
Entries 89
Mean −0.01094
Std Dev 1.044
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

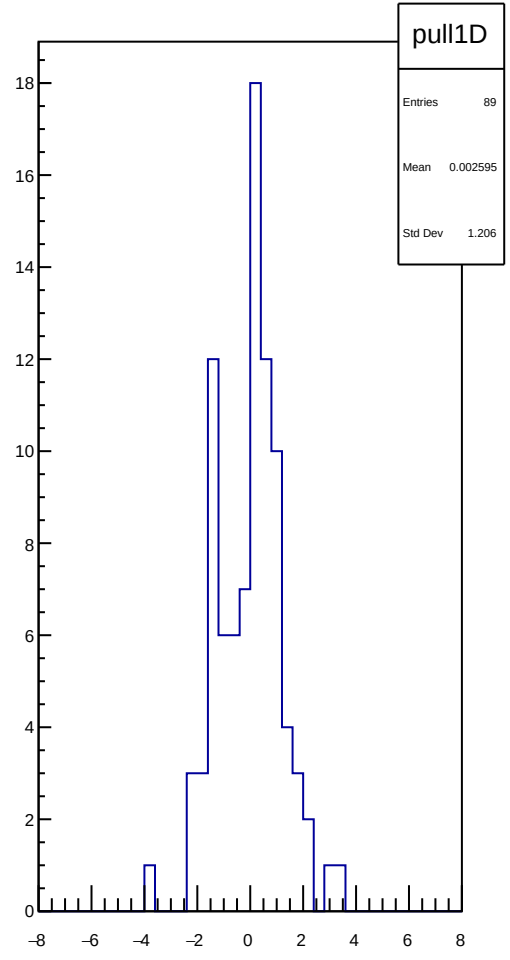

asym_sam_15_dd_rms vs run
χ^2 / ndf 2.467e+04 / 88
p0 650.3 ± 0.4973
900
850
800
750
700
650
600
550
500

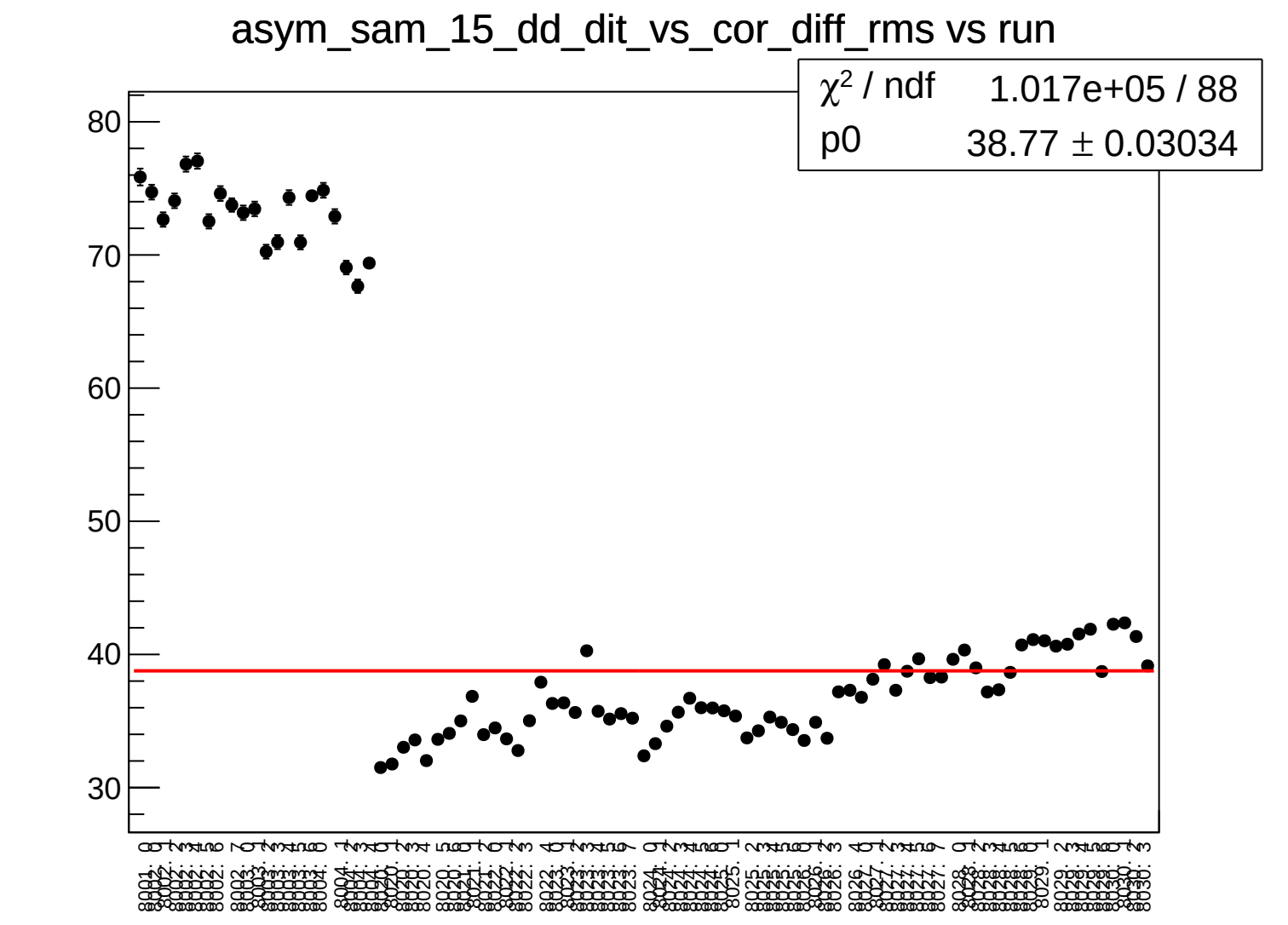

asym_sam_15_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 93.28 / 88
p0 −5.812e−14 ± 5.966e−14
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 89
Mean 22.53
Std Dev 0
3
2
1
0
−1
−2

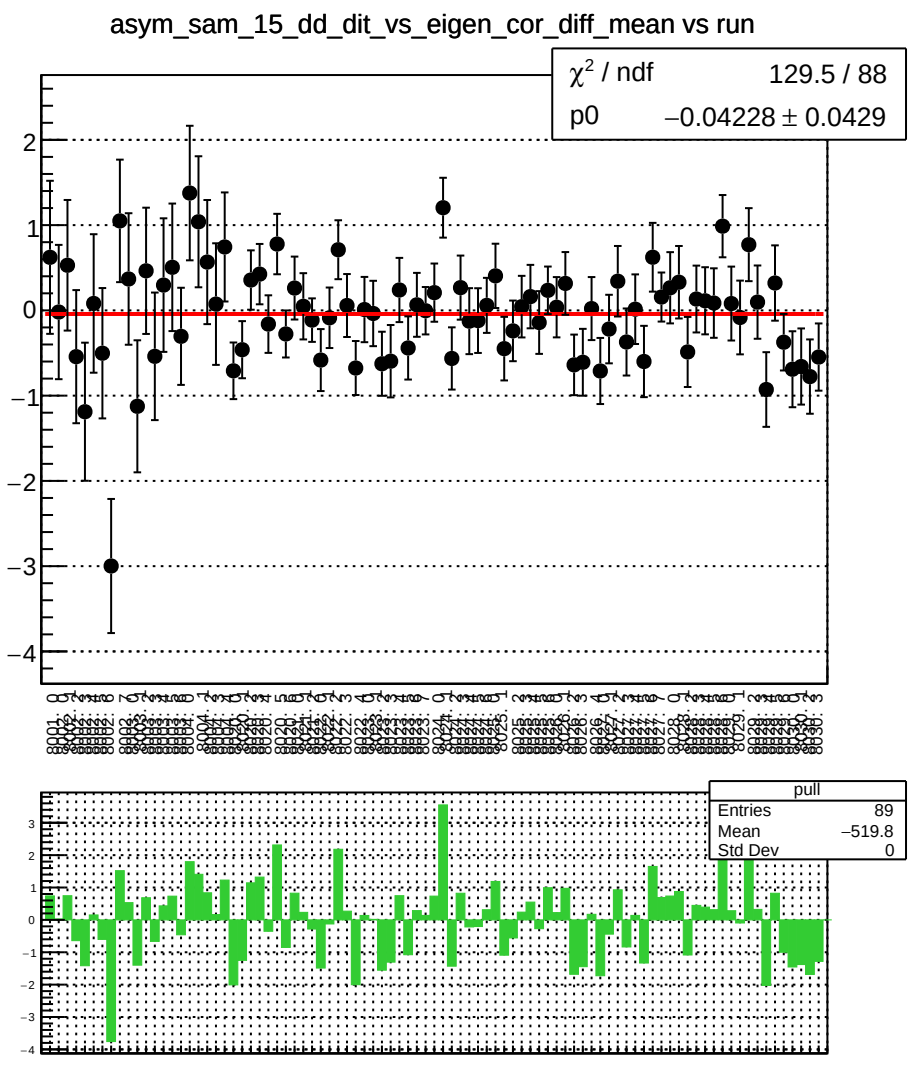

pull1D
Entries 89
Mean −0.1034
Std Dev 1.019
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

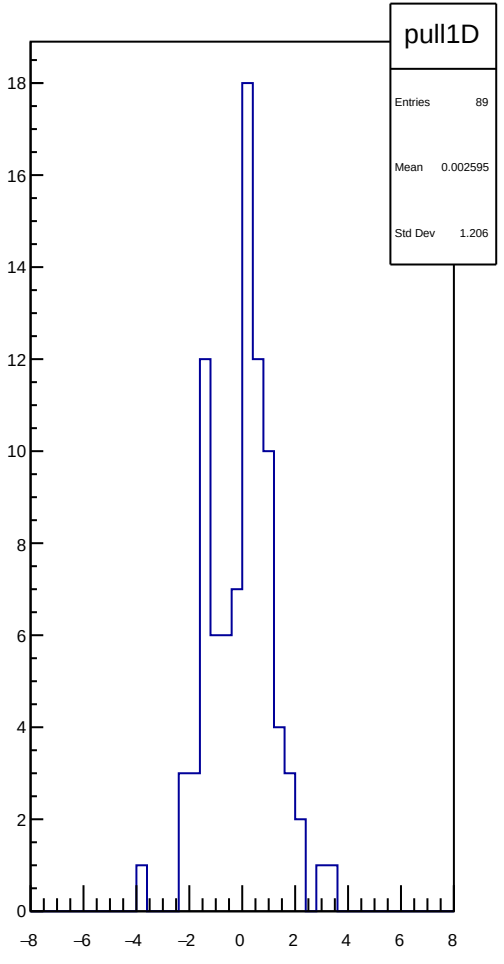

asym_sam_15_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.486e+05 / 88
p0 3.971e−11 ± 4.219e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

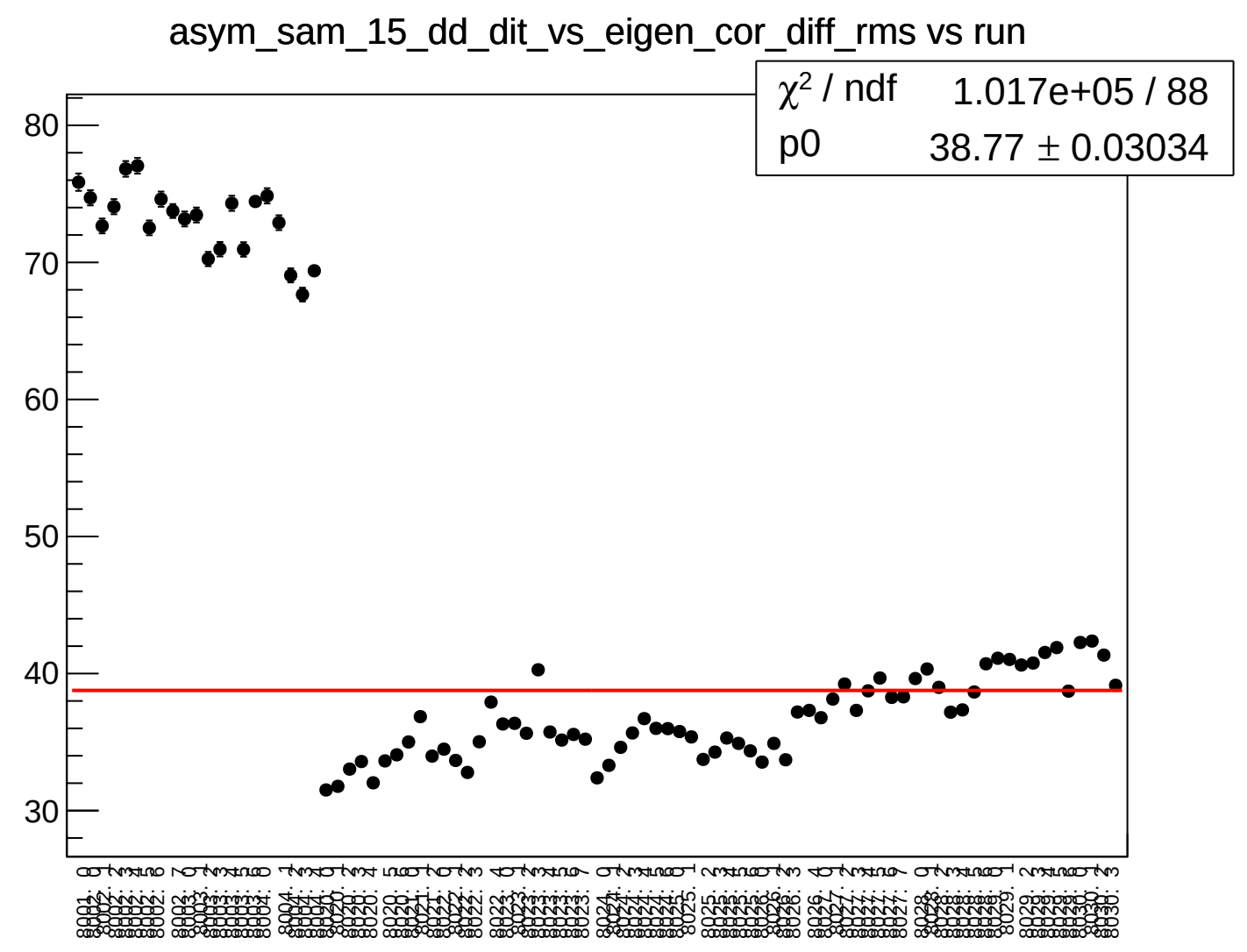

asym_sam_15_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 129.5 / 88
p0 −0.04228 ± 0.0429
pull
Entries 89
Mean −519.8
Std Dev 0

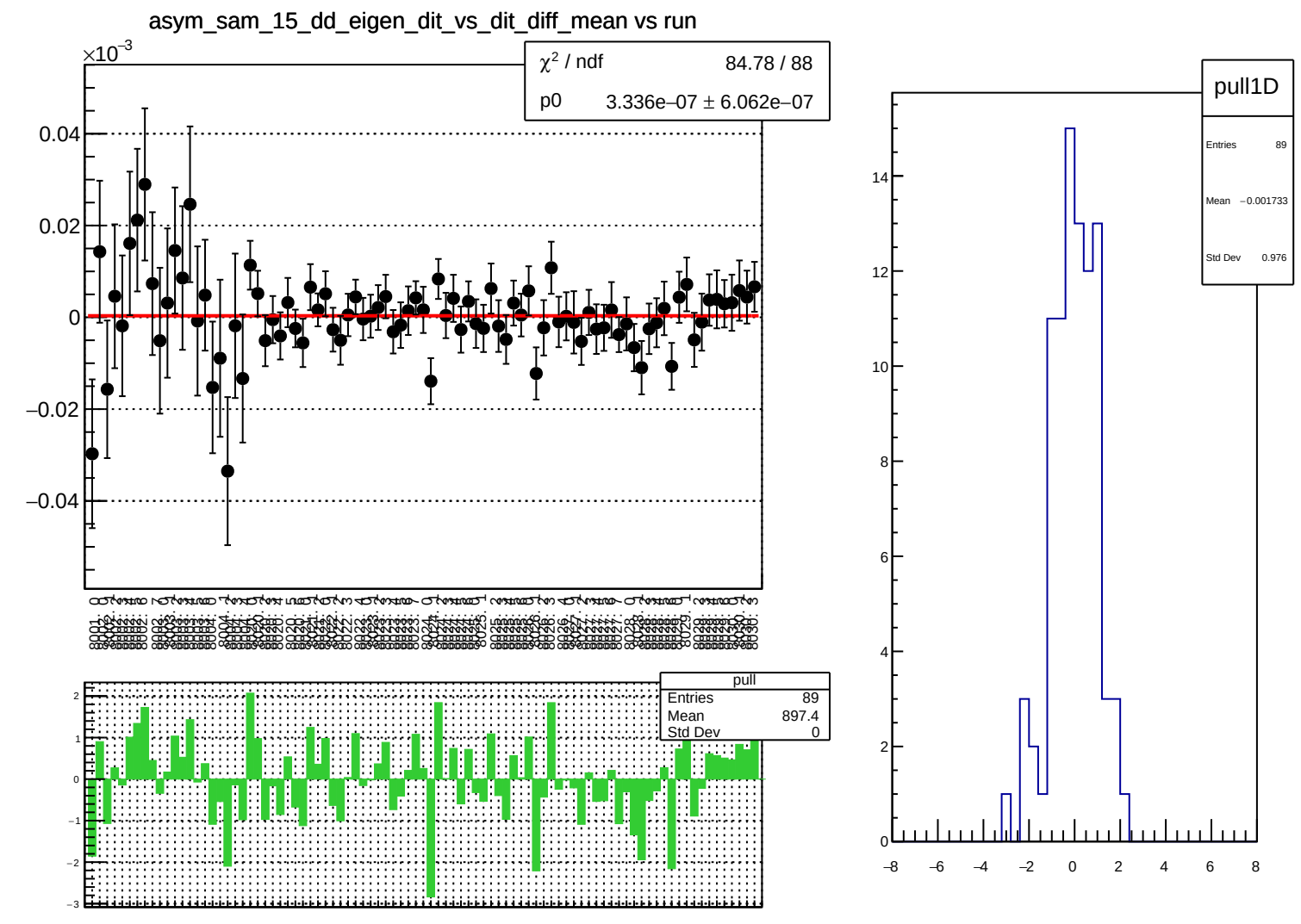

pull1D
Entries 89
Mean 0.002595
Std Dev 1.206

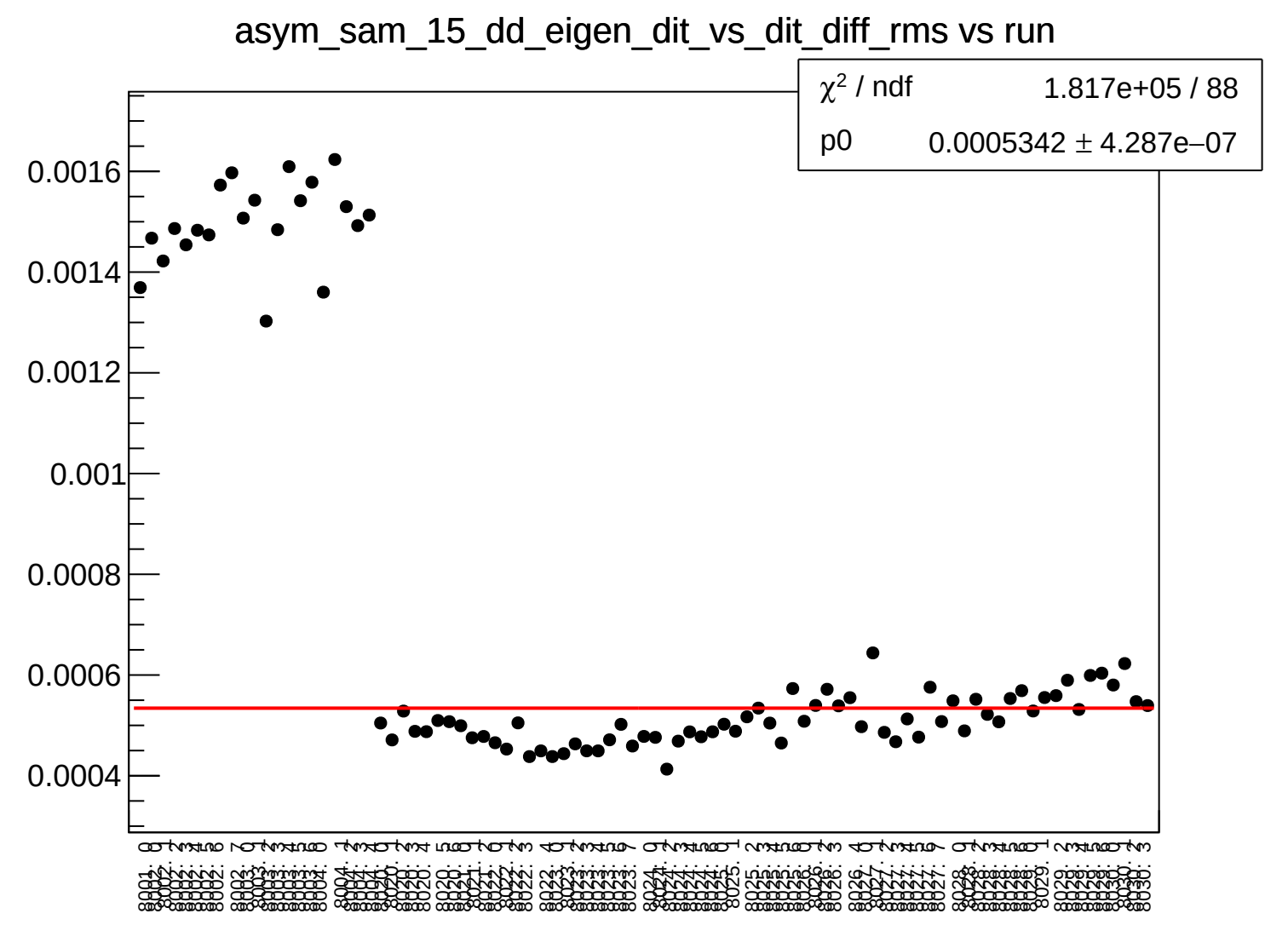

asym_sam_15_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.017e+05 / 88
p0 38.77 ± 0.03034
80
70
60
50
40
30

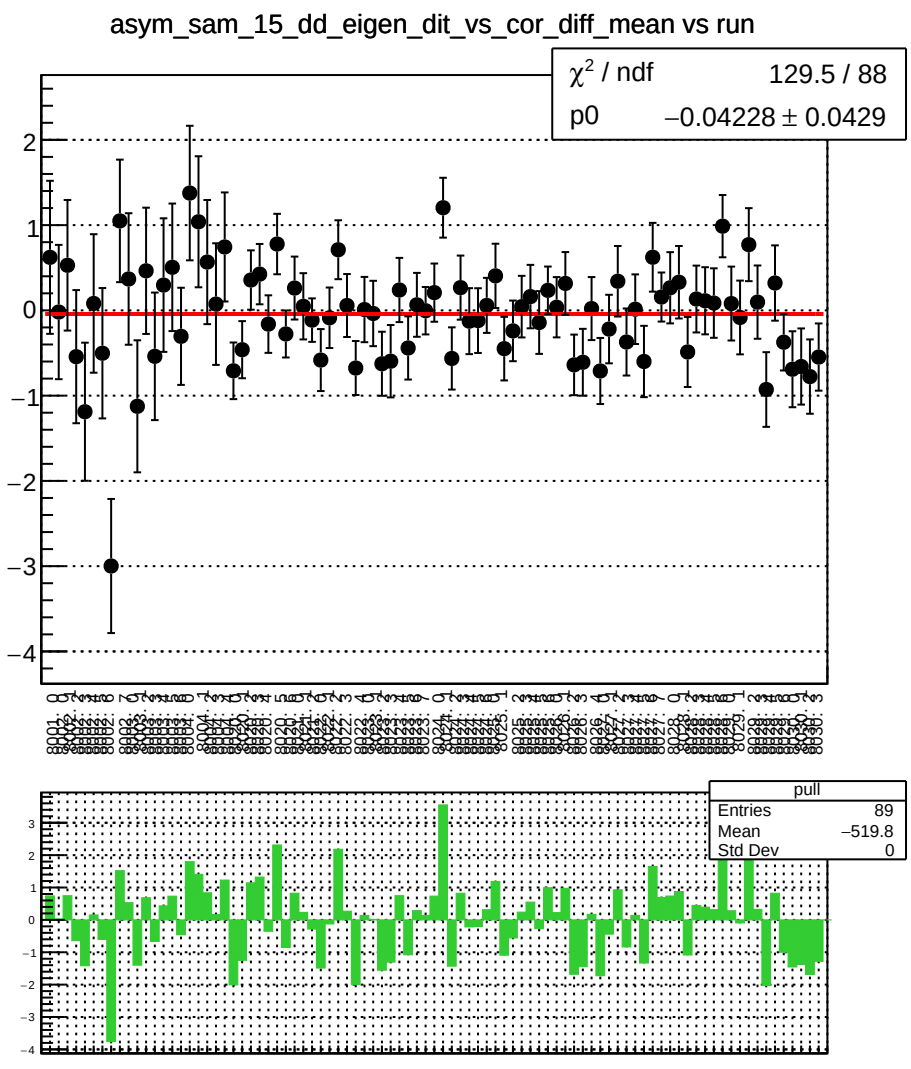

asym_sam_15_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 129.5 / 88
p0 −0.04228 ± 0.0429
pull
Entries 89
Mean −519.8
Std Dev 0

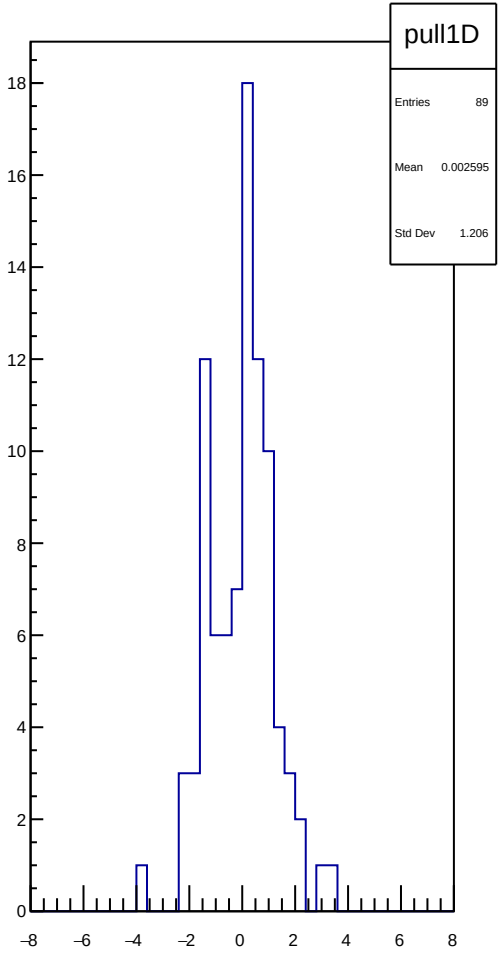

pull1D
Entries 89
Mean 0.002595
Std Dev 1.206

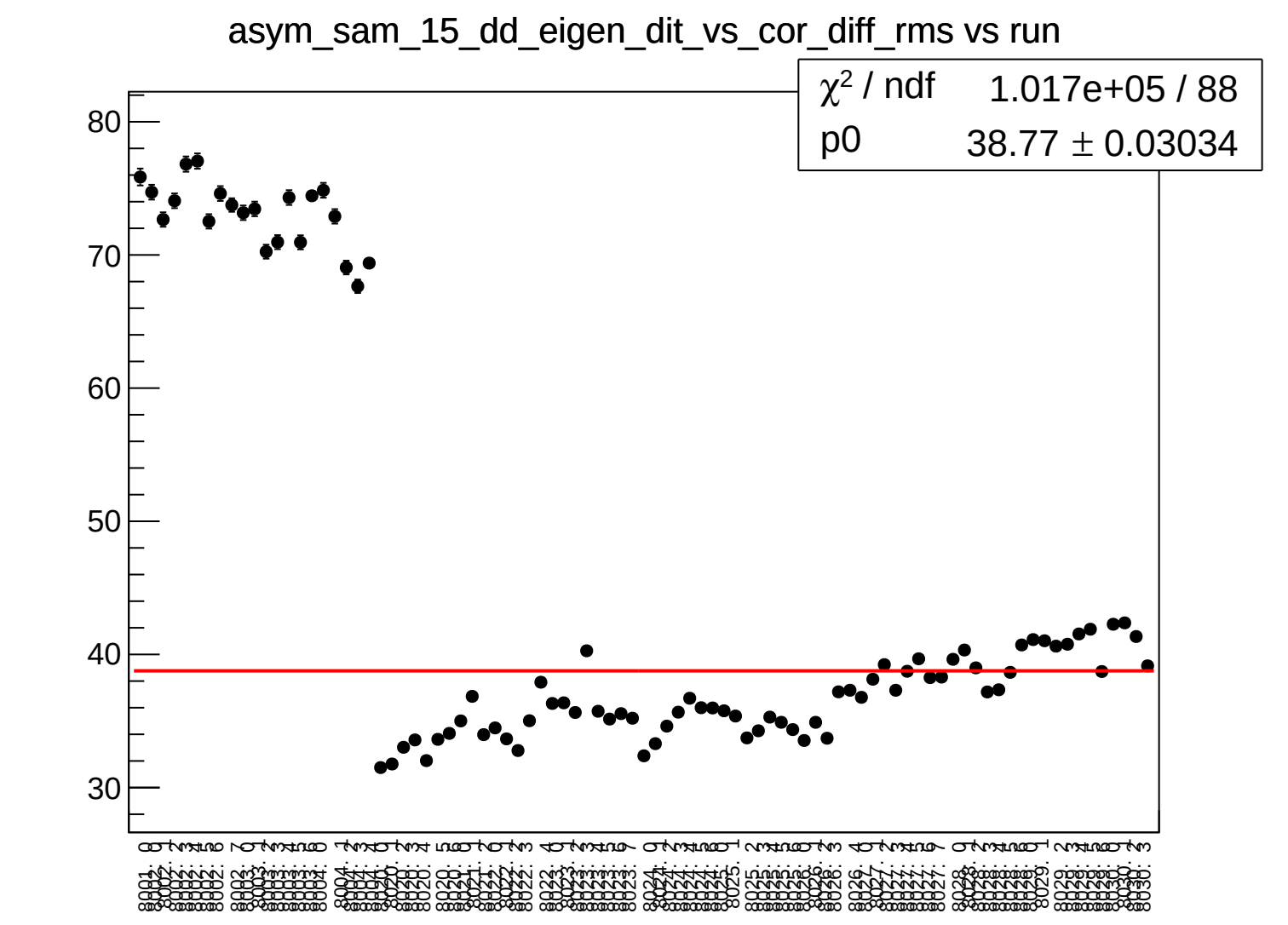

asym_sam_15_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.017e+05 / 88
p0 38.77 ± 0.03034
80
70
60
50
40
30

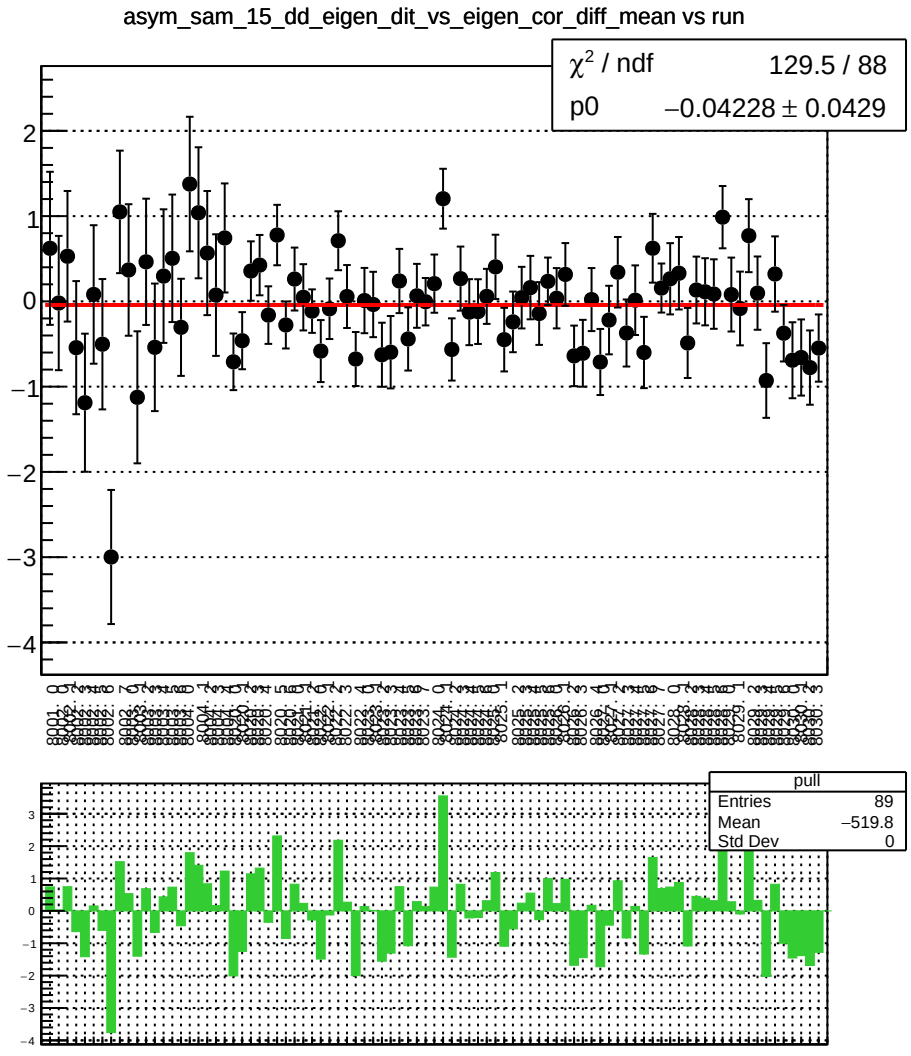

asym_sam_15_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.78 / 88
p0 3.336e−07 ± 6.062e−07
0.04
0.02
0
−0.02
−0.04
pull
Entries 89
Mean 897.4
Std Dev 0
pull1D
Entries 89
Mean −0.001733
Std Dev 0.976

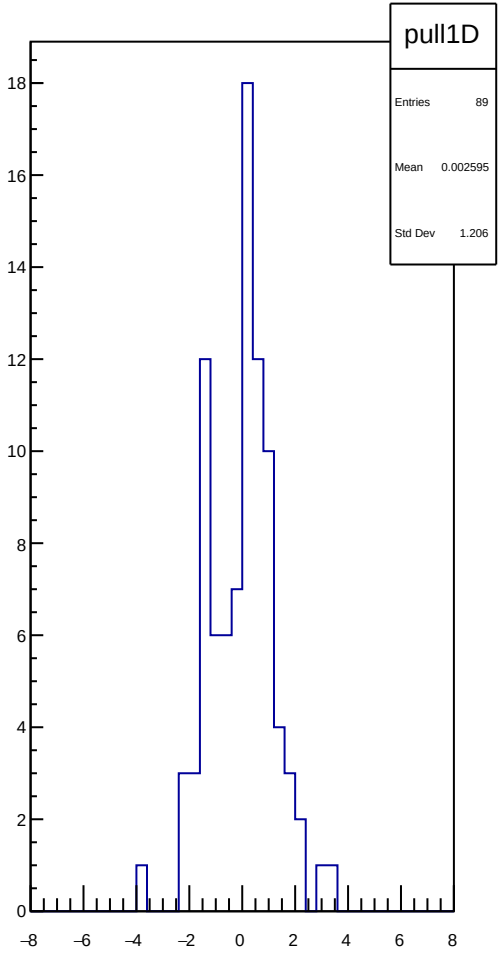

asym_sam_15_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.817e+05 / 88
p0 0.0005342 ± 4.287e−07
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004

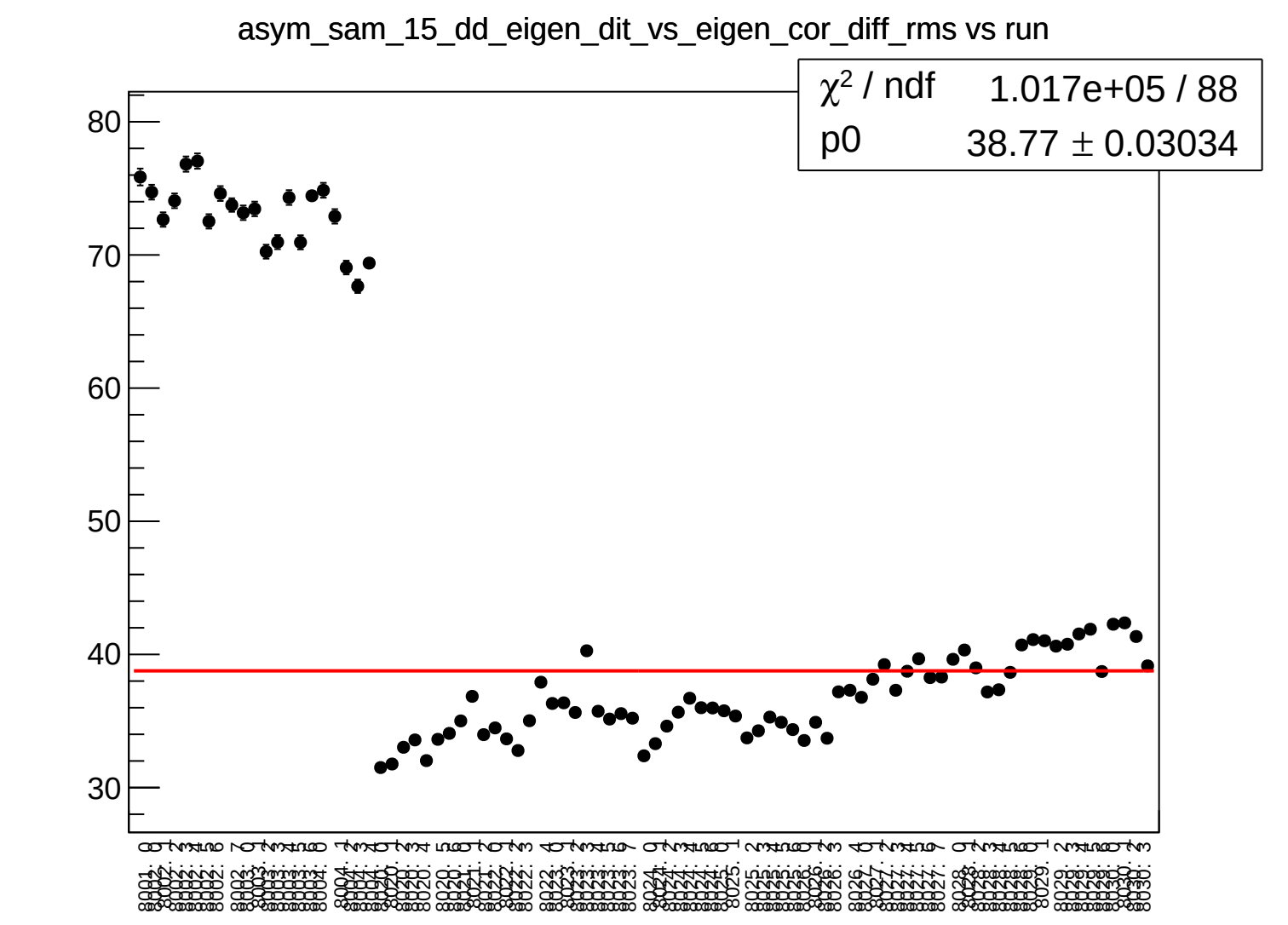

asym_sam_15_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 129.5 / 88
p0 −0.04228 ± 0.0429
pull
Entries 89
Mean −519.8
Std Dev 0

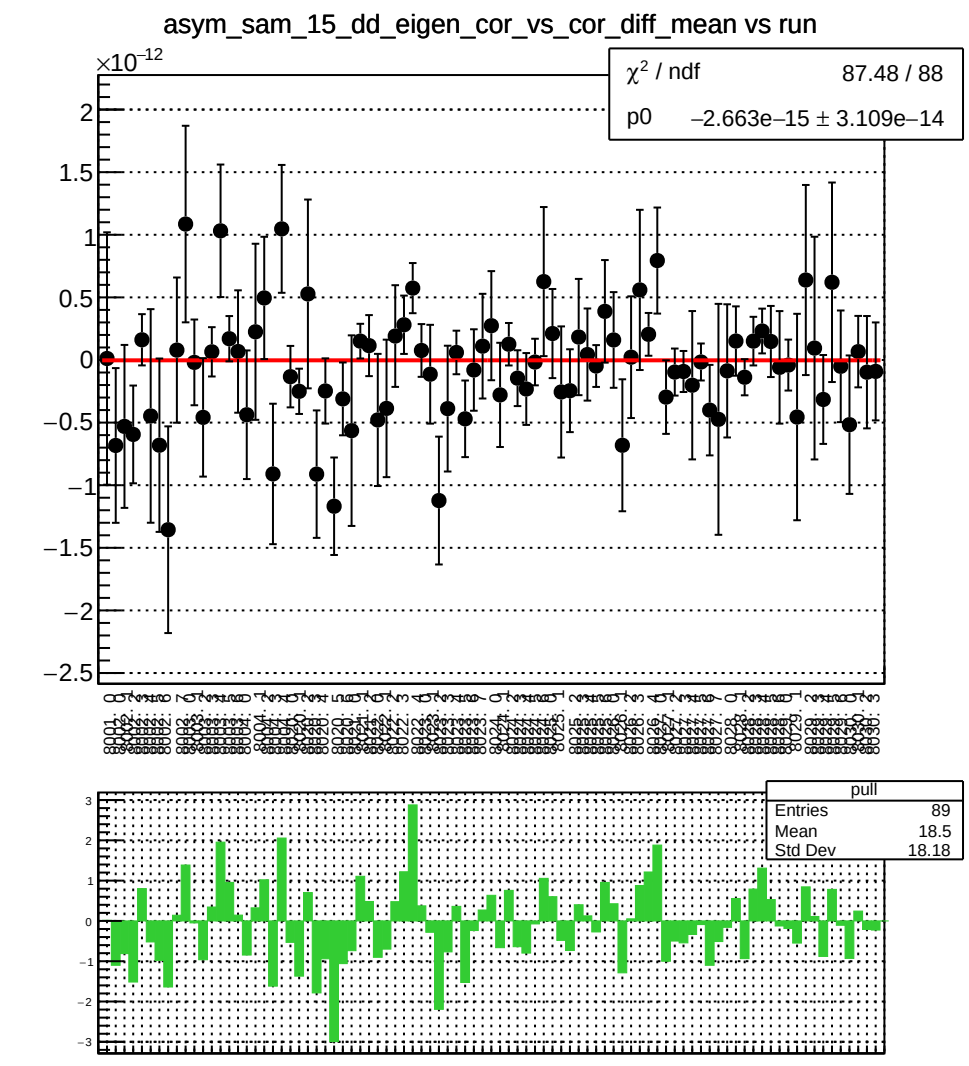

pull1D
Entries 89
Mean 0.002595
Std Dev 1.206

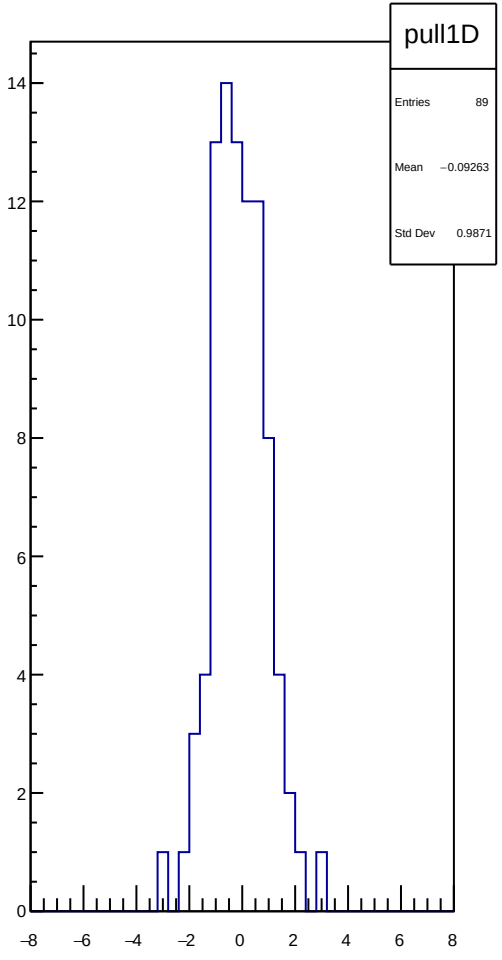

asym_sam_15_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.017e+05 / 88
p0 38.77 ± 0.03034
80
70
60
50
40
30

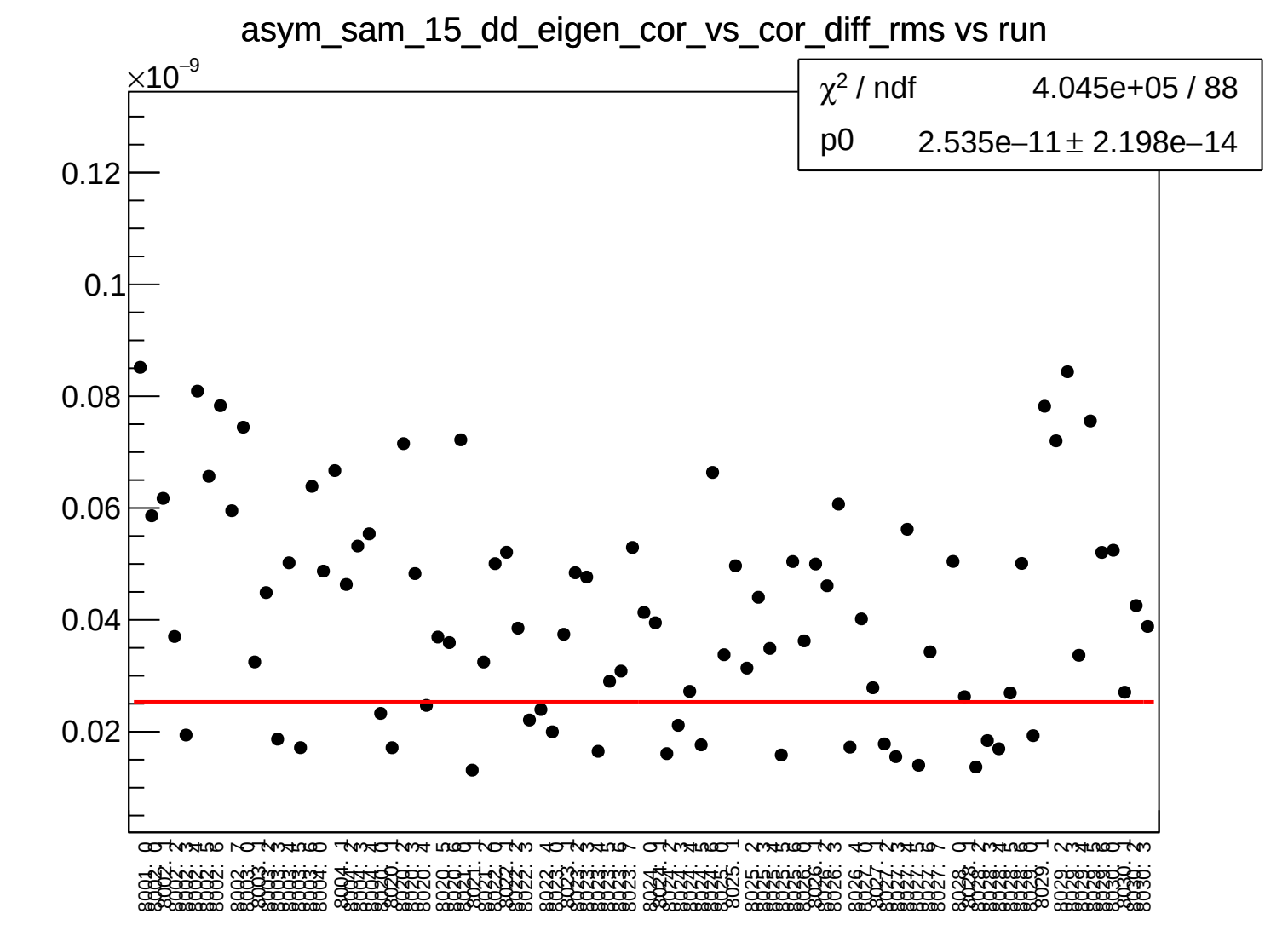

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 129.5 / 88
p0 −0.04228 ± 0.0429
pull
Entries 89
Mean −519.8
Std Dev 0

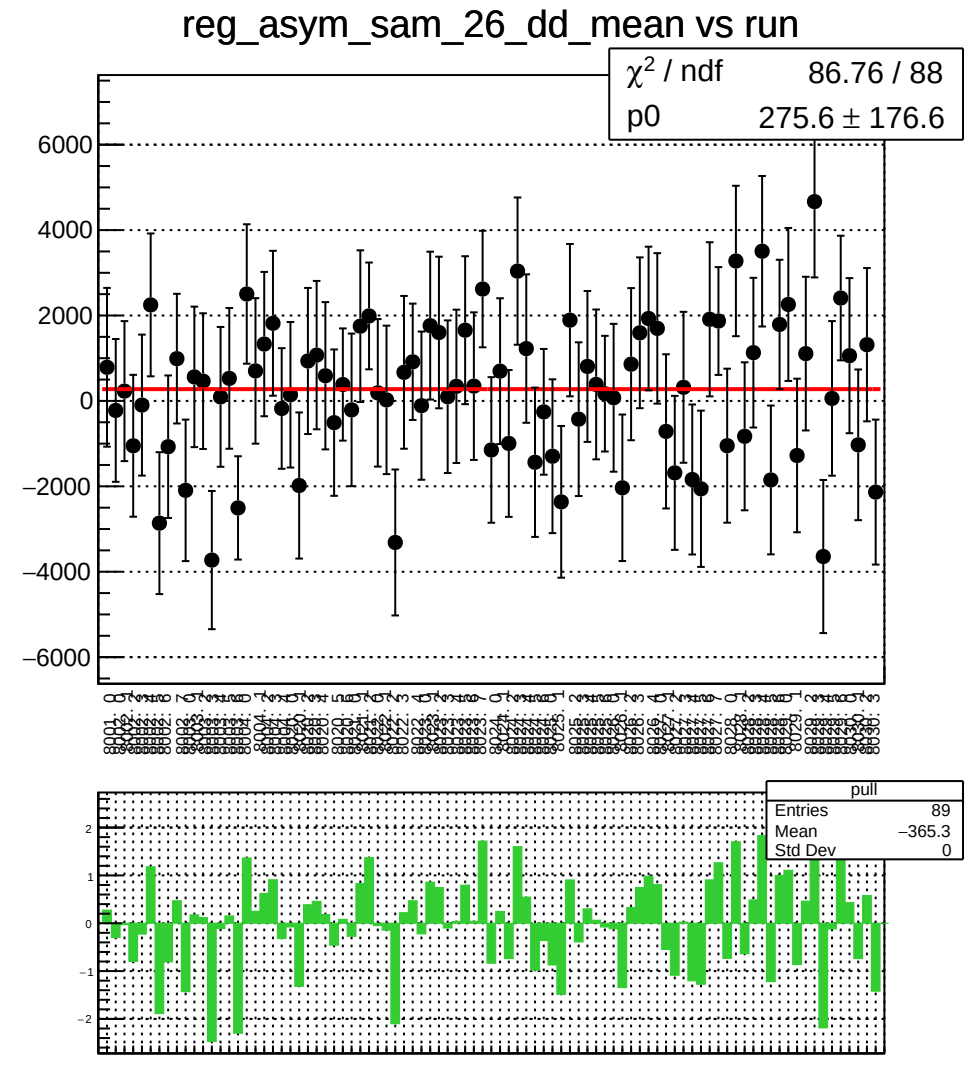

pull1D
Entries 89
Mean 0.002595
Std Dev 1.206

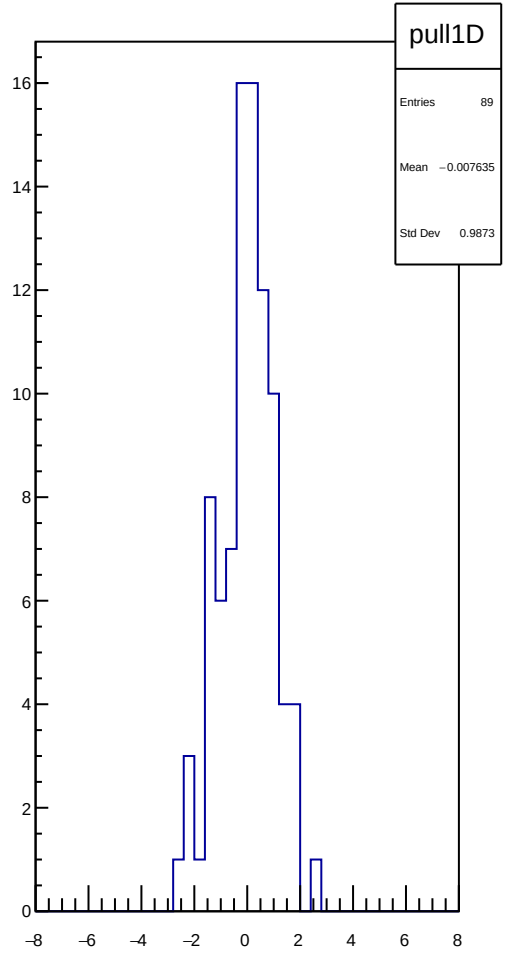

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.017e+05 / 88
p0 38.77 ± 0.03034
80
70
60
50
40
30

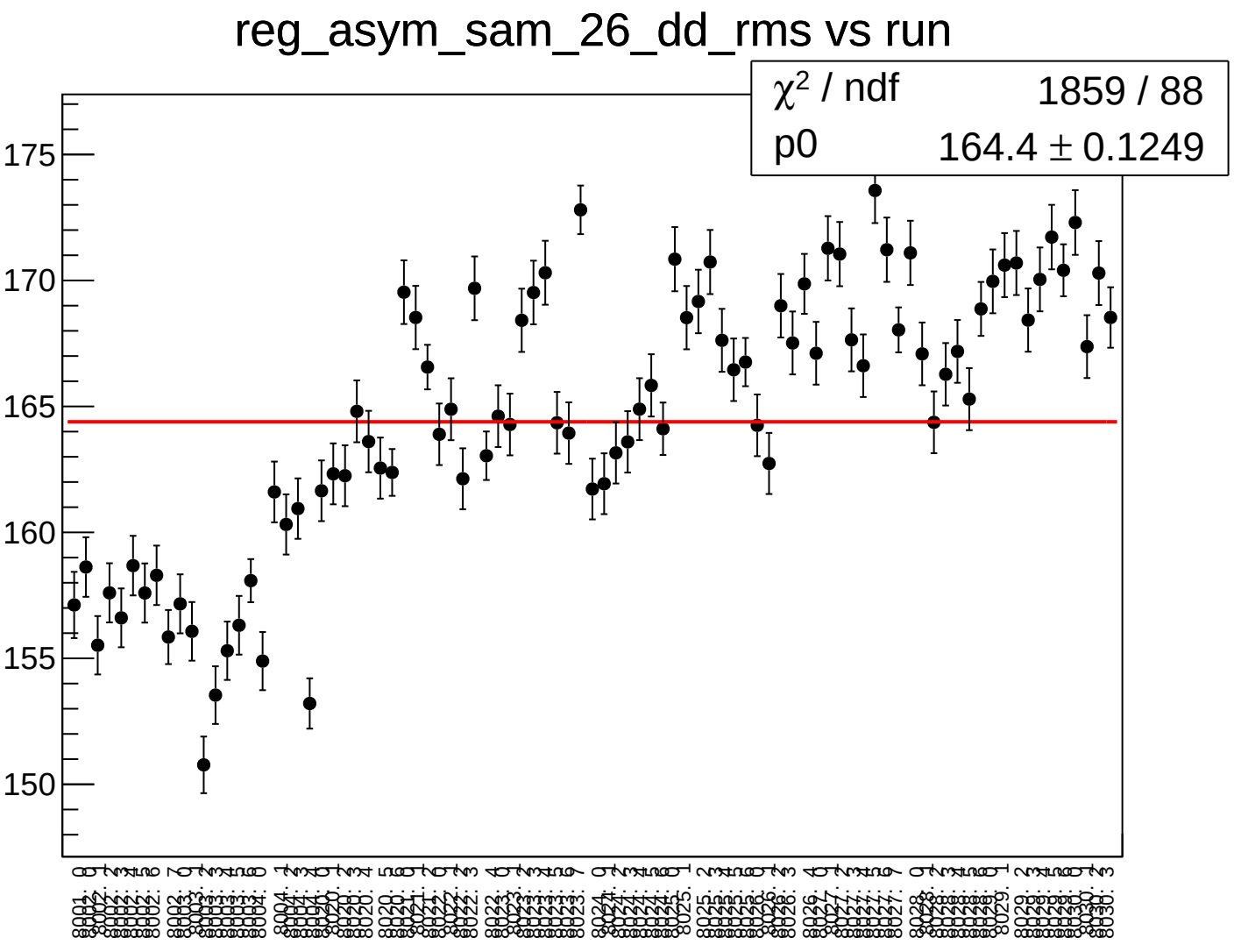

asym_sam_15_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 87.48 / 88
p0 −2.663e−15 ± 3.109e−14
pull
Entries 89
Mean 18.5
Std Dev 18.18

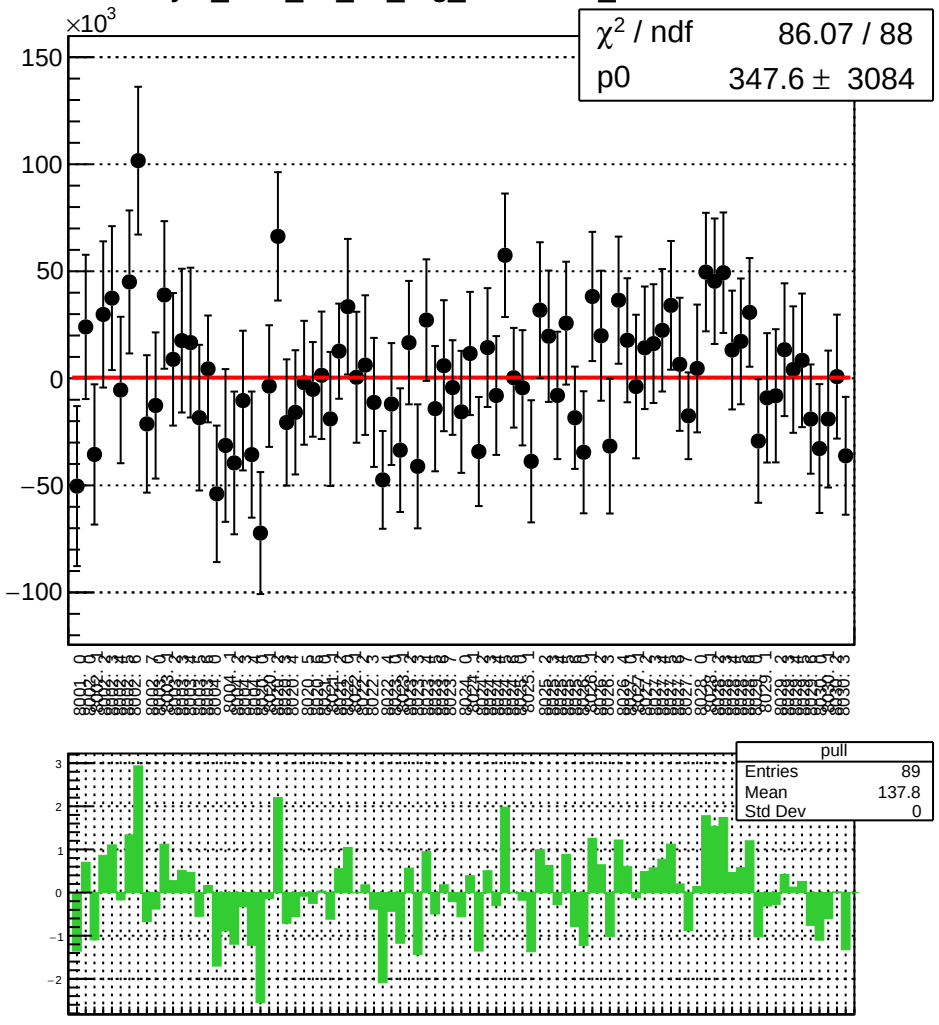

pull1D
Entries 89
Mean −0.09263
Std Dev 0.9871

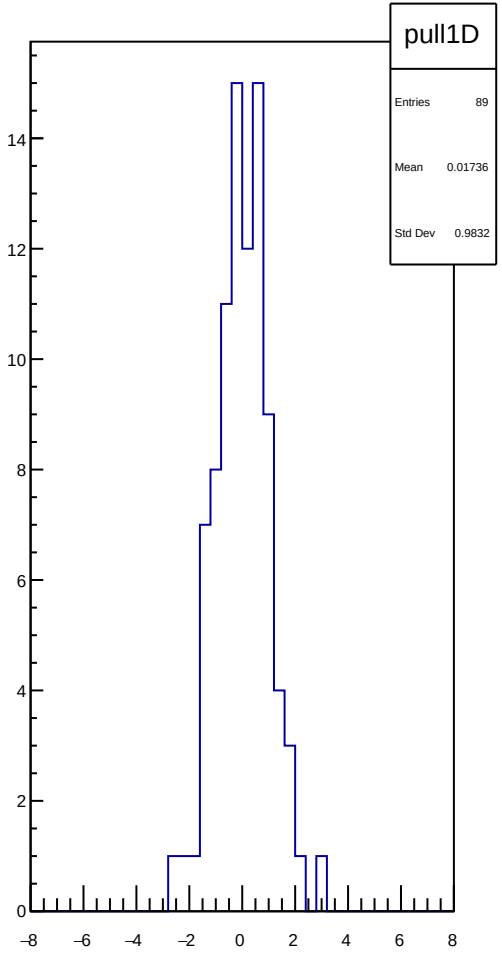

asym_sam_15_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.045e+05 / 88
p0 2.535e−11 ± 2.198e−14
0.12
0.1
0.08
0.06
0.04
0.02

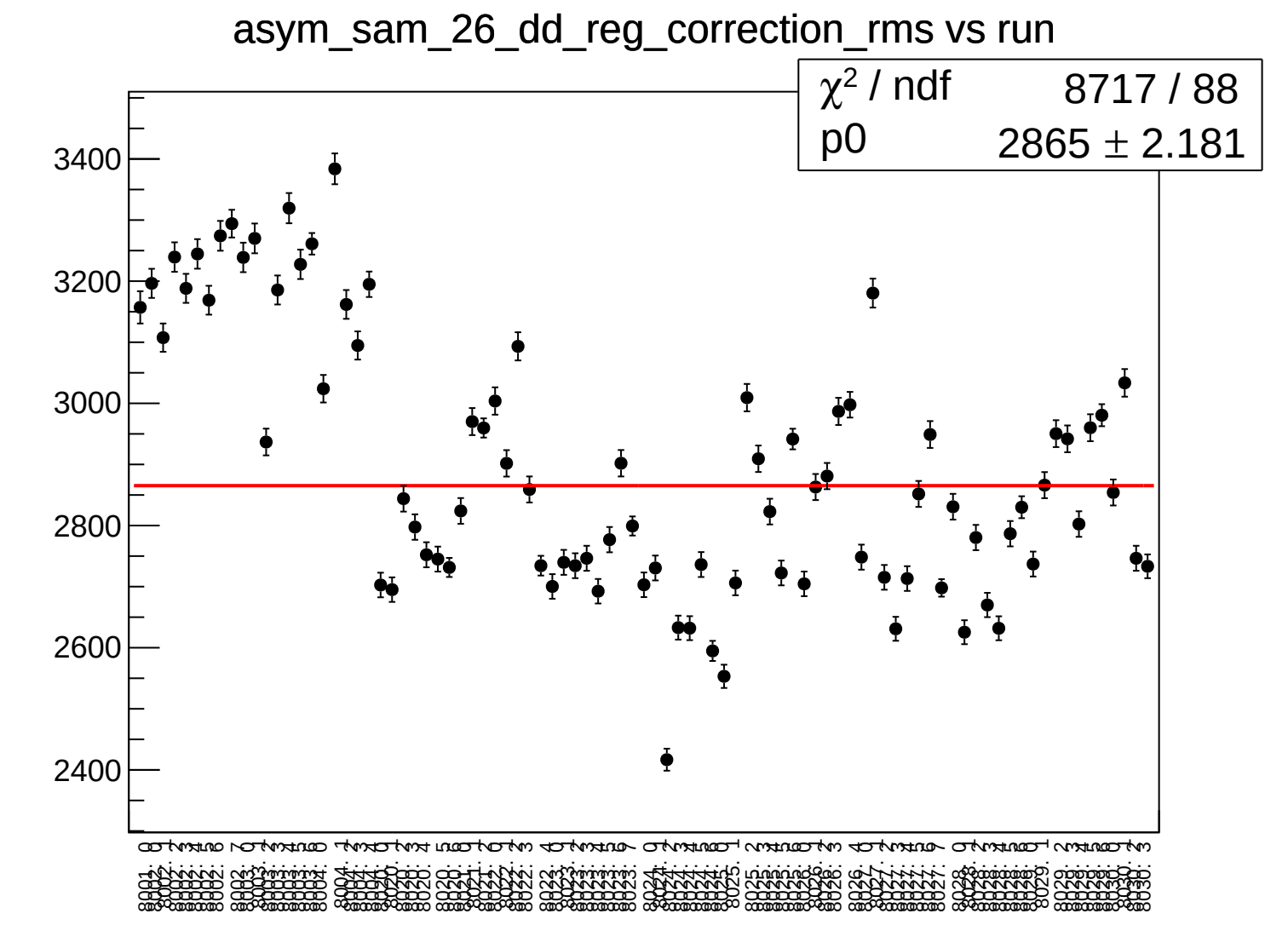

reg_asym_sam_26_dd_mean vs run
χ² / ndf 86.76 / 88
p0 275.6 ± 176.6
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean −365.3
Std Dev 0
2
1
0
−1
−2

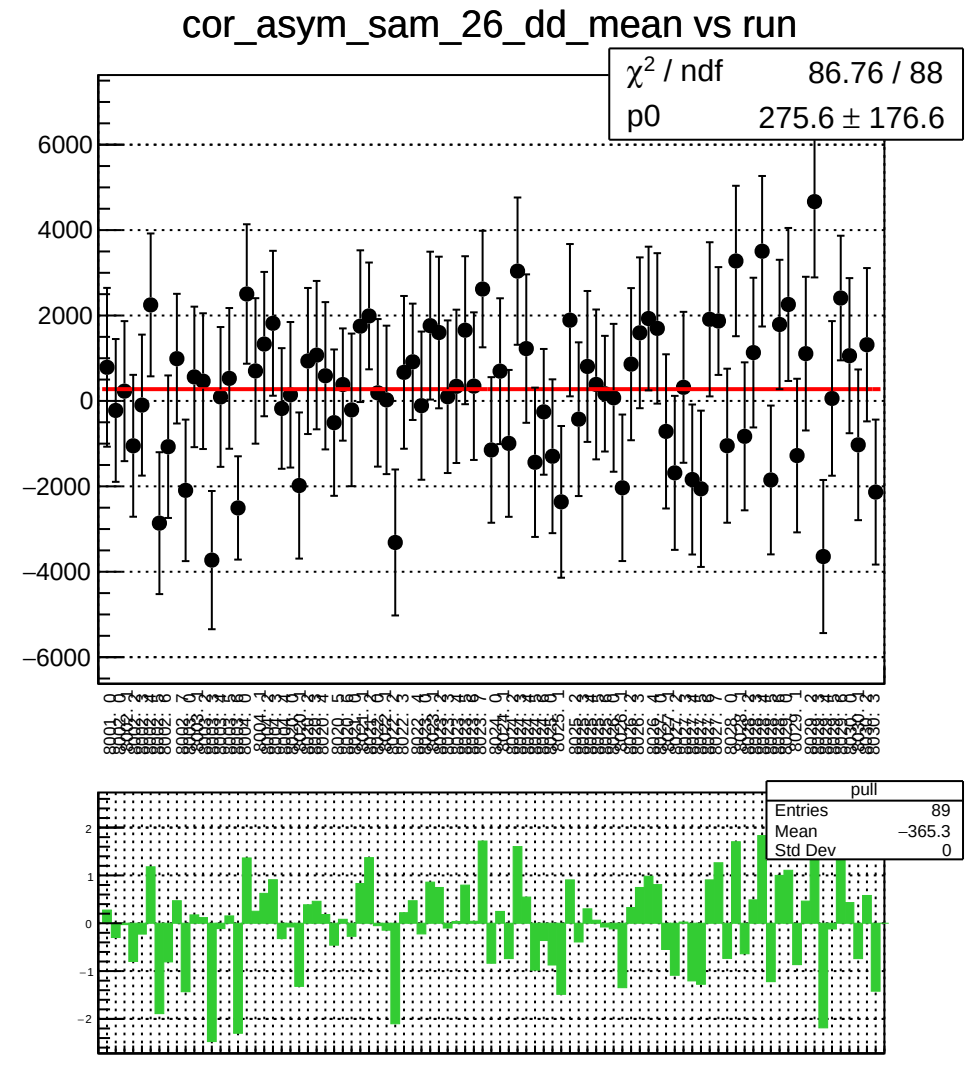

pull1D
Entries 89
Mean −0.007635
Std Dev 0.9873
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

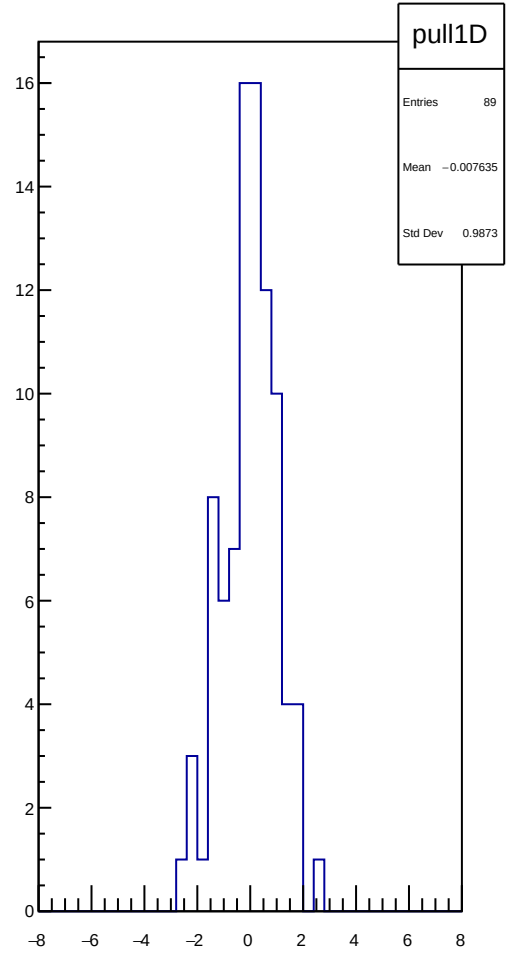

reg_asym_sam_26_dd_rms vs run
χ² / ndf 1859 / 88
p0 164.4 ± 0.1249
175
170
165
160
155
150

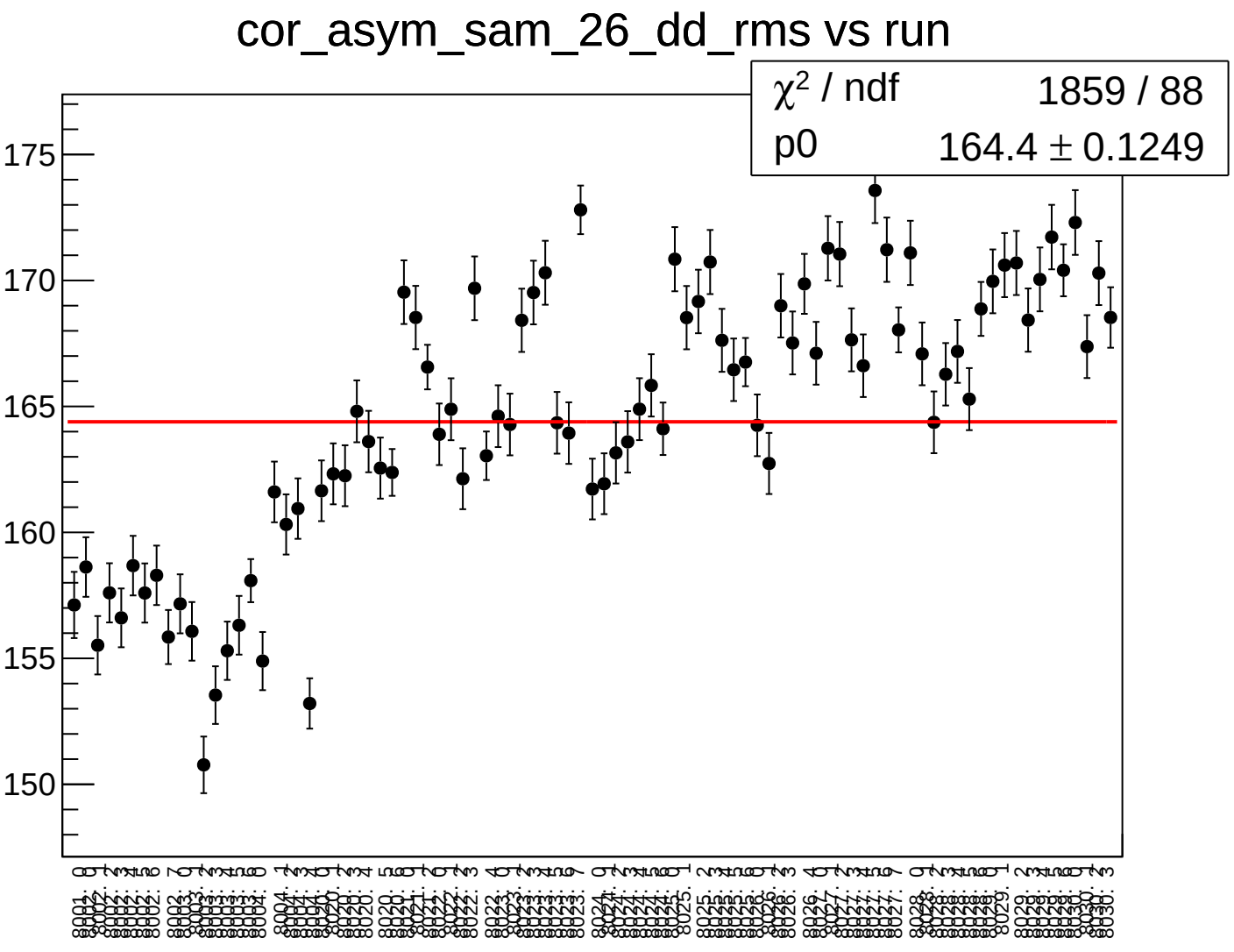

asym_sam_26_dd_reg_correction_mean vs run
×10^3
χ² / ndf 86.07 / 88
p0 347.6 ± 3084
150
100
50
0
−50
−100
pull
Entries 89
Mean 137.8
Std Dev 0
3
2
1
0
−1
−2

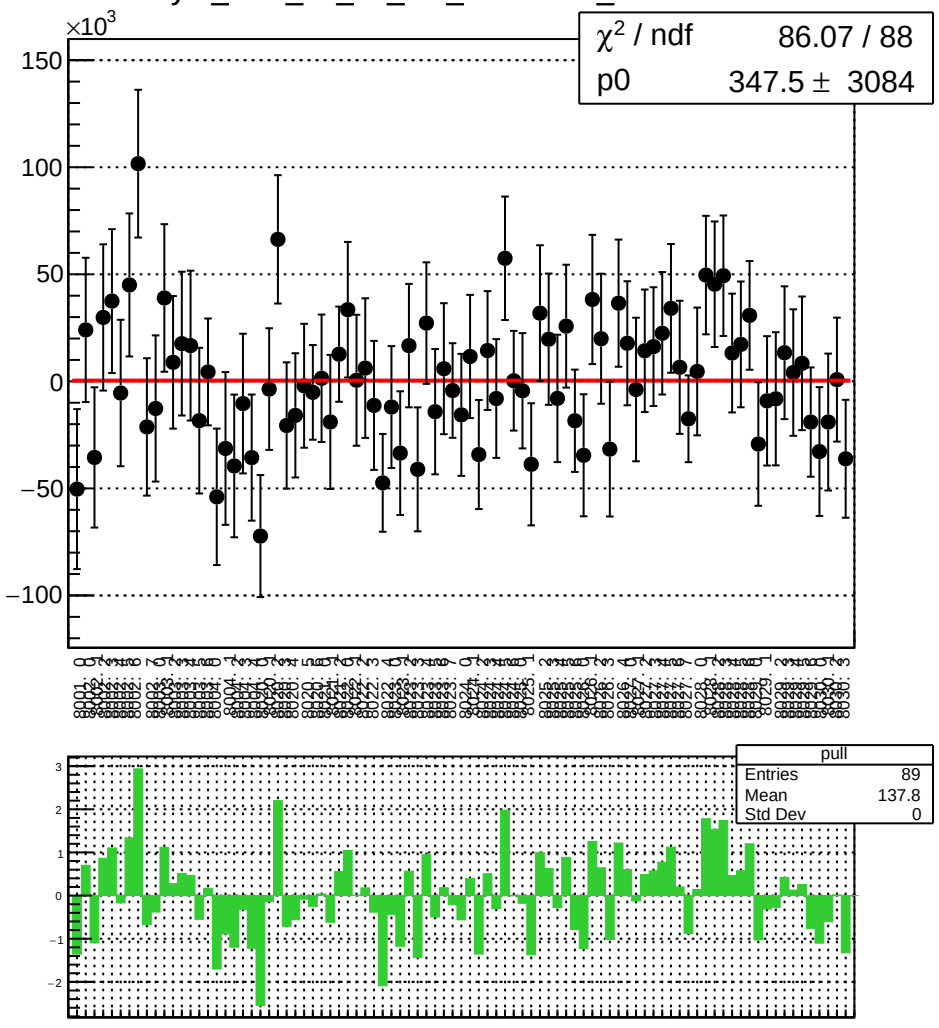

pull1D
Entries 89
Mean 0.01736
Std Dev 0.9832
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

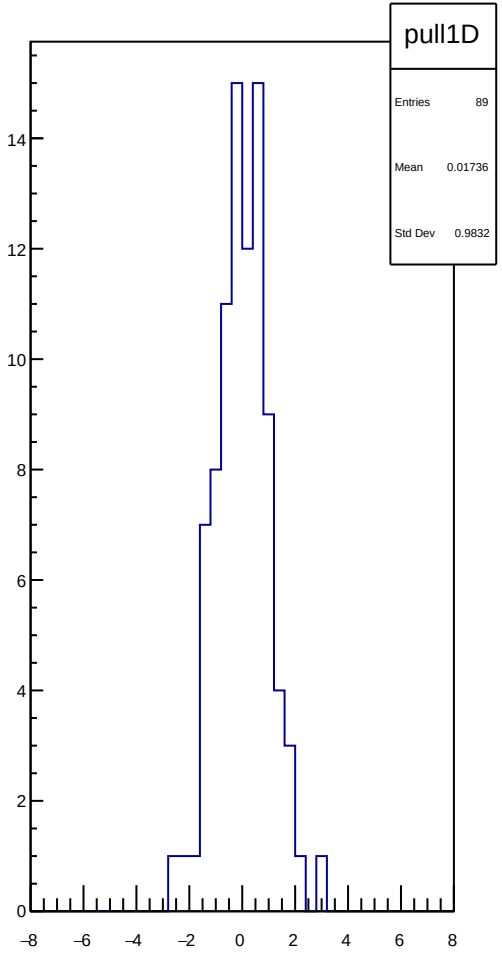

asym_sam_26_dd_reg_correction_rms vs run
χ² / ndf 8717 / 88
p0 2865 ± 2.181
3400
3200
3000
2800
2600
2400

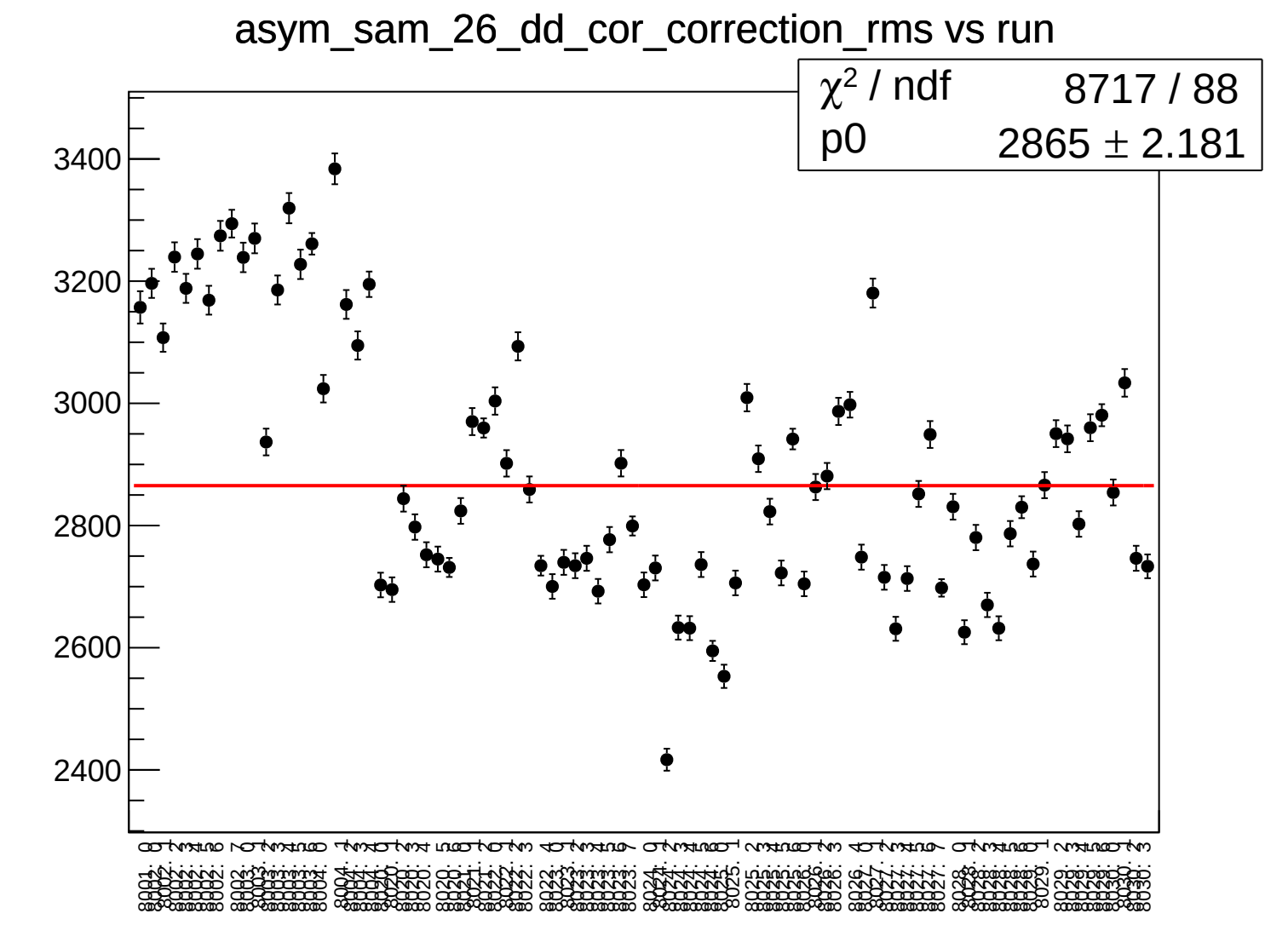

cor_asym_sam_26_dd_mean vs run
χ² / ndf 86.76 / 88
p0 275.6 ± 176.6
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean −365.3
Std Dev 0
2
1
0
−1
−2

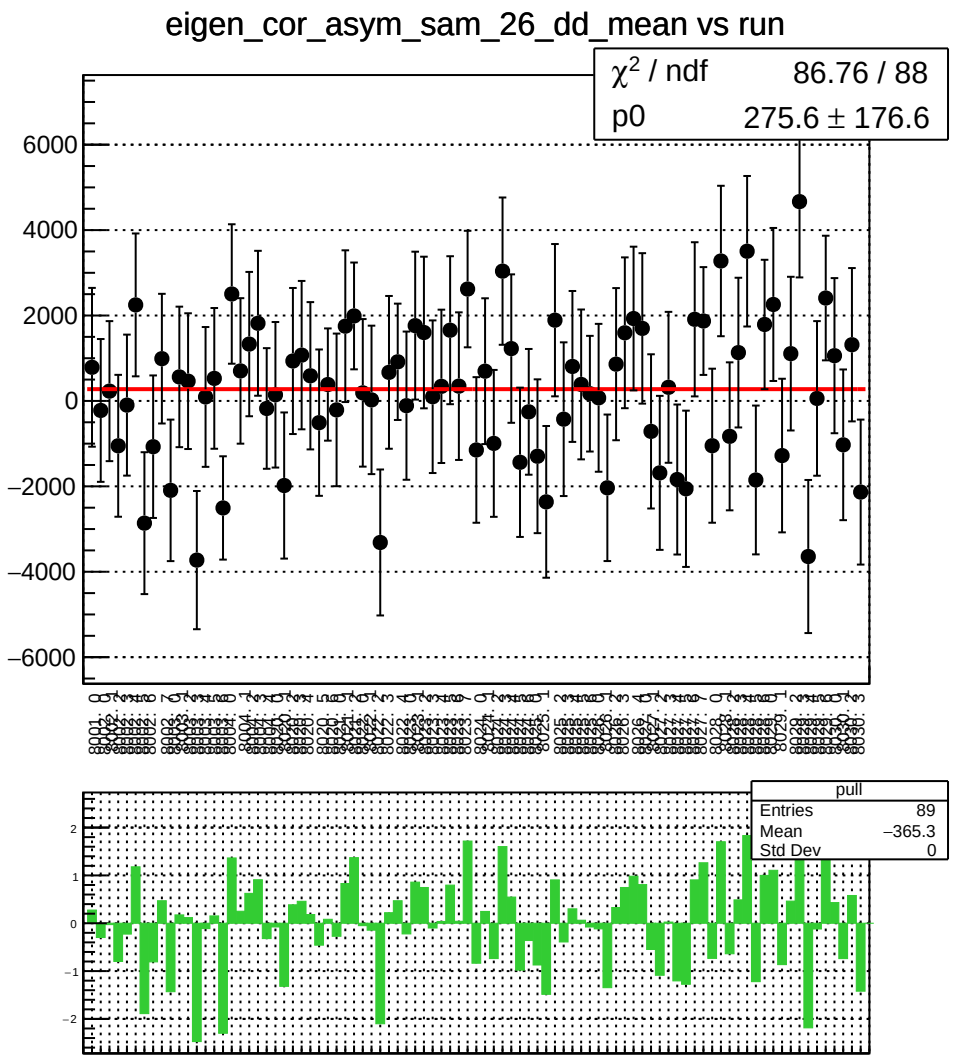

pull1D
Entries 89
Mean −0.007635
Std Dev 0.9873
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

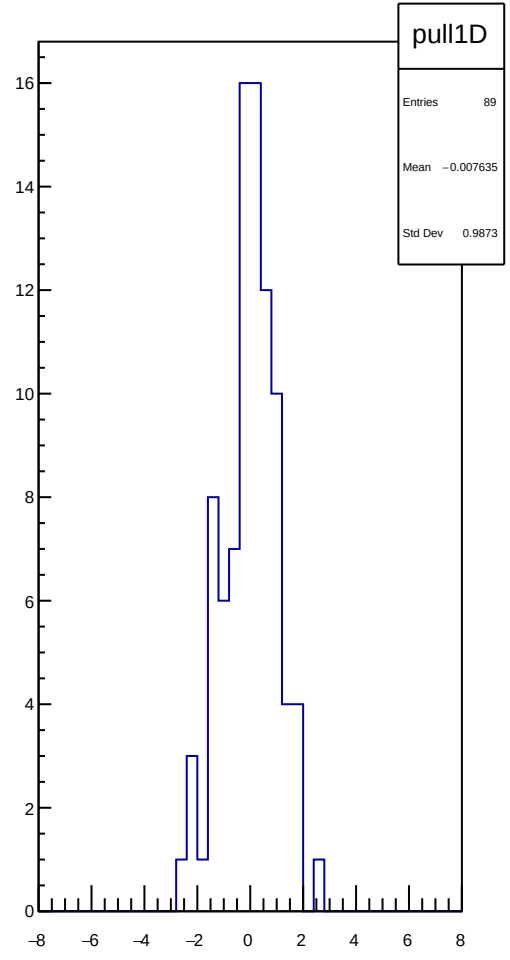

cor_asym_sam_26_dd_rms vs run
χ^2 / ndf 1859 / 88
p0 164.4 ± 0.1249
175
170
165
160
155
150

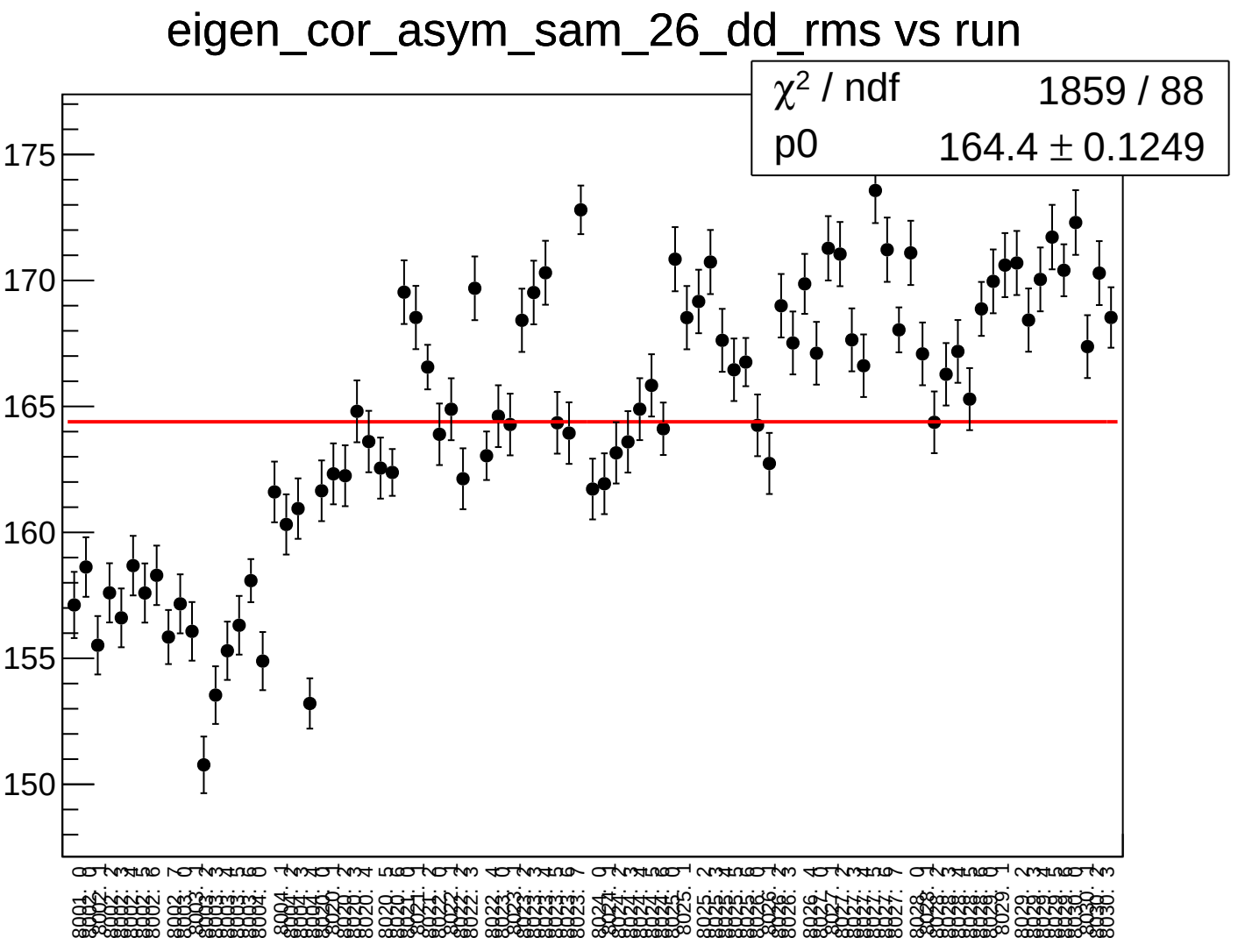

asym_sam_26_dd_cor_correction_mean vs run
×10^3
χ² / ndf 86.07 / 88
p0 347.5 ± 3084
150
100
50
0
−50
−100
pull
Entries 89
Mean 137.8
Std Dev 0
3
2
1
0
−1
−2

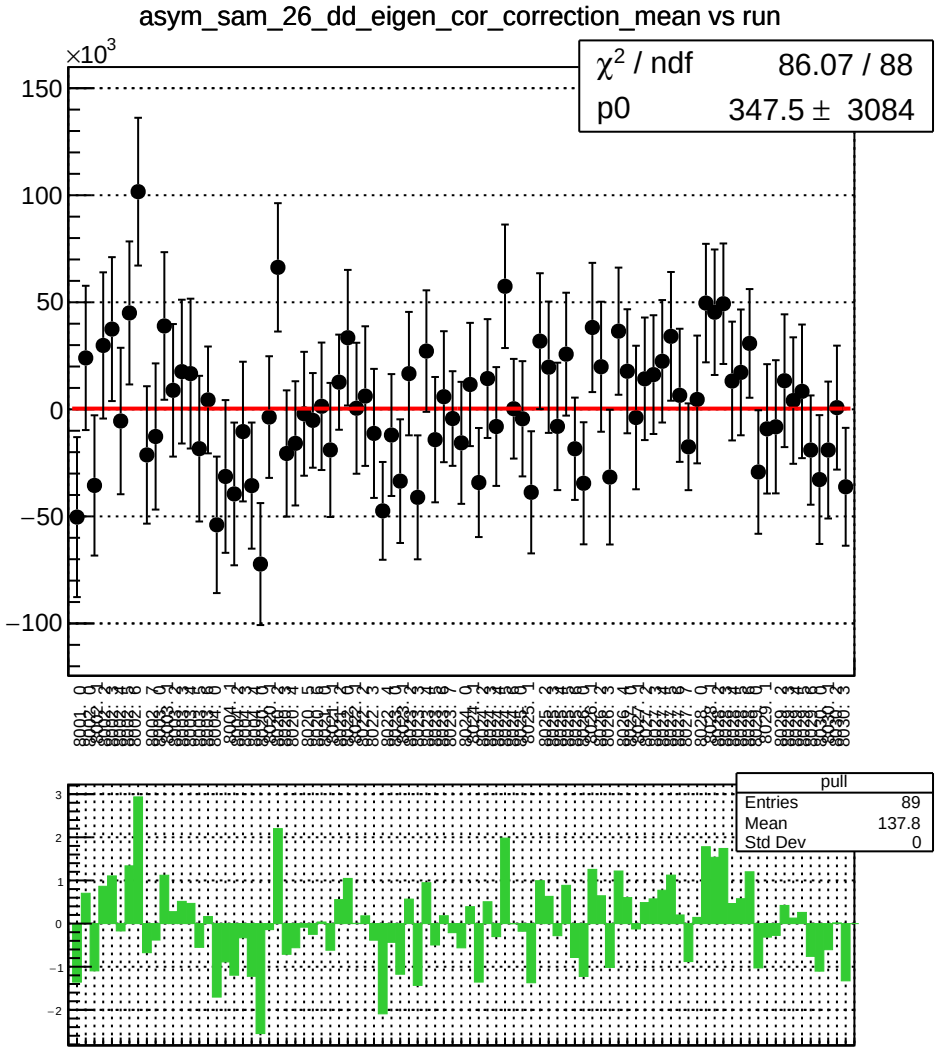

pull1D
Entries 89
Mean 0.01736
Std Dev 0.9832
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

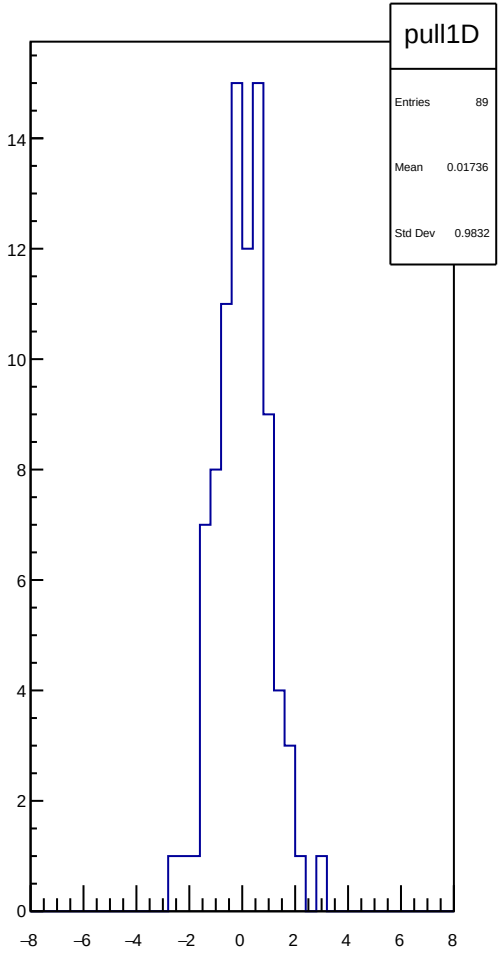

asym_sam_26_dd_cor_correction_rms vs run
χ² / ndf 8717 / 88
p0 2865 ± 2.181
3400
3200
3000
2800
2600
2400

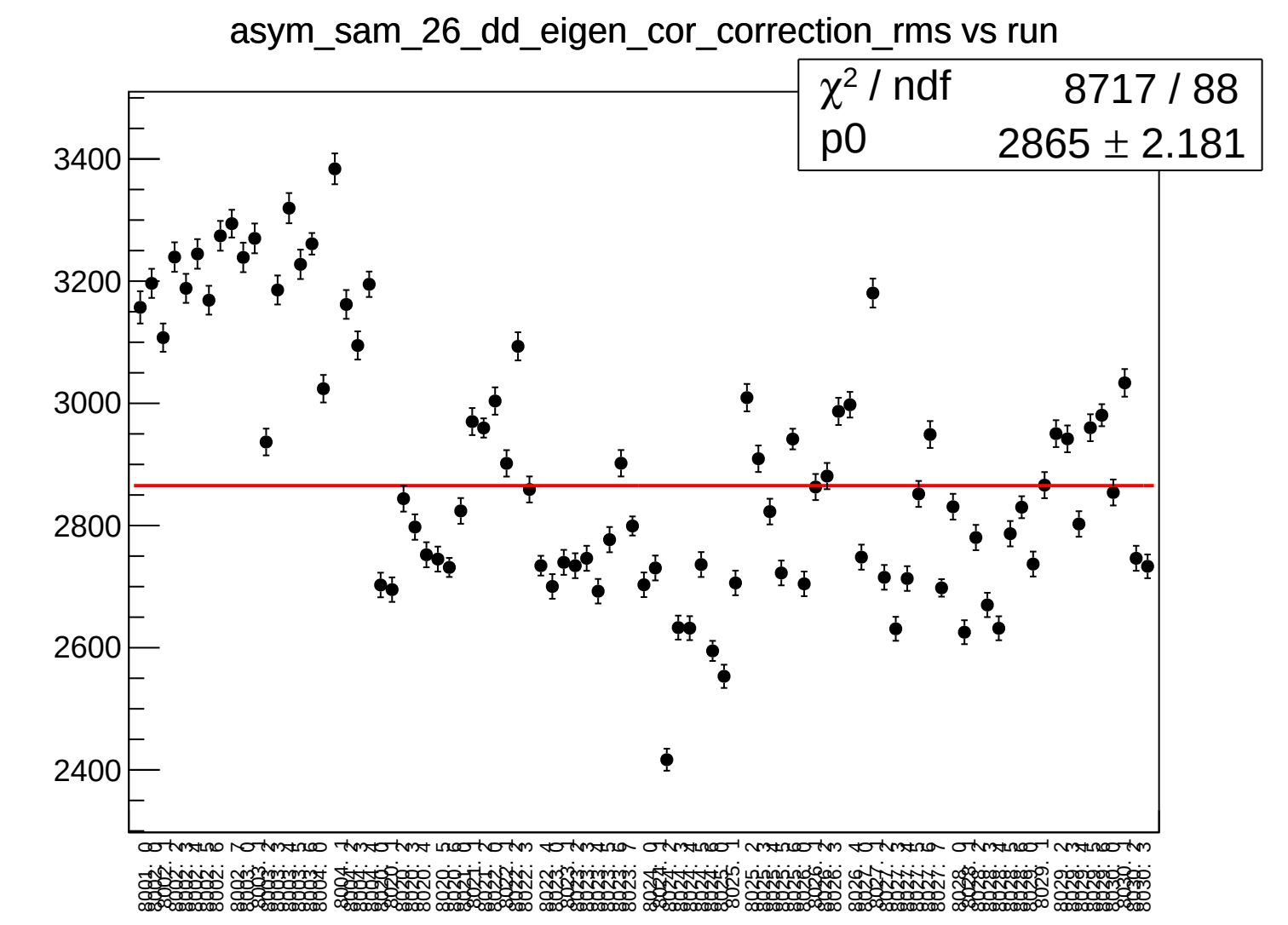

eigen_cor_asym_sam_26_dd_mean vs run
χ² / ndf 86.76 / 88
p0 275.6 ± 176.6
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean −365.3
Std Dev 0
2
1
0
−1
−2

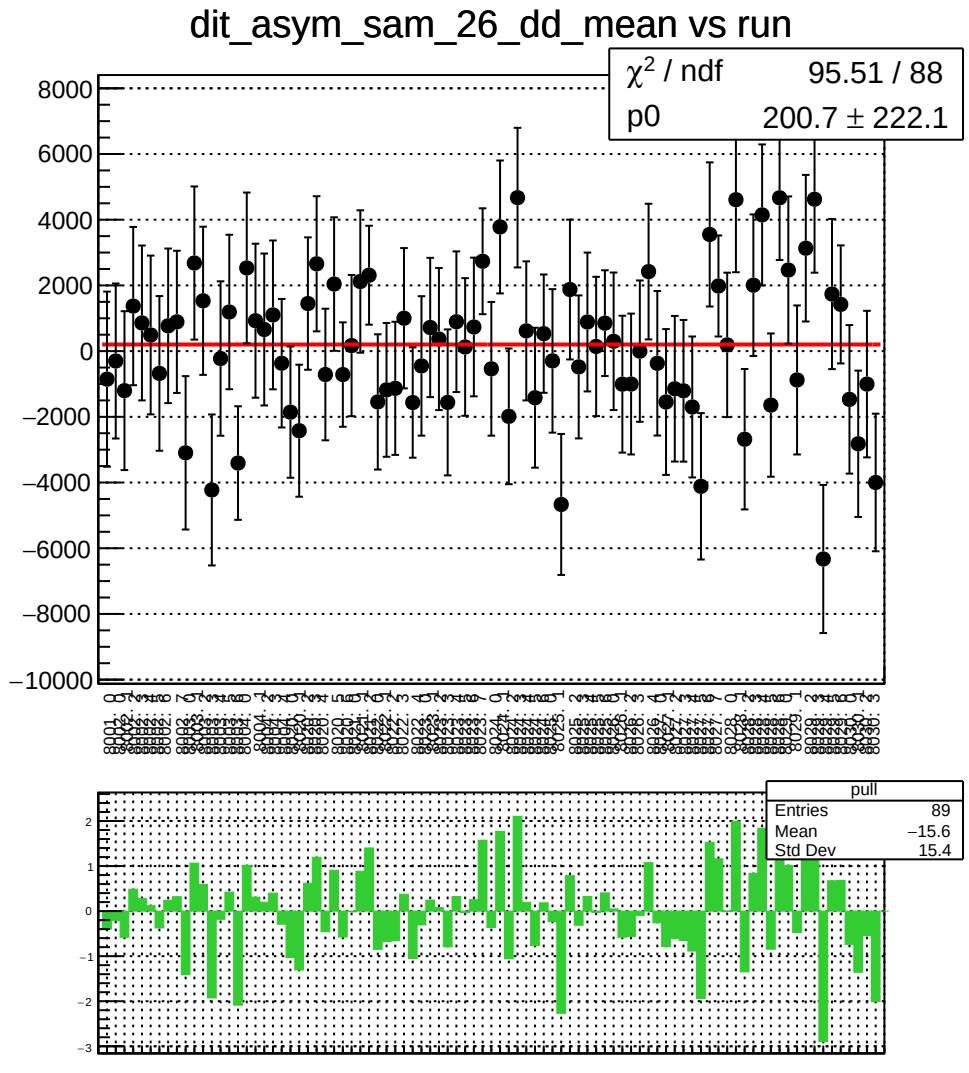

pull1D
Entries 89
Mean −0.007635
Std Dev 0.9873
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

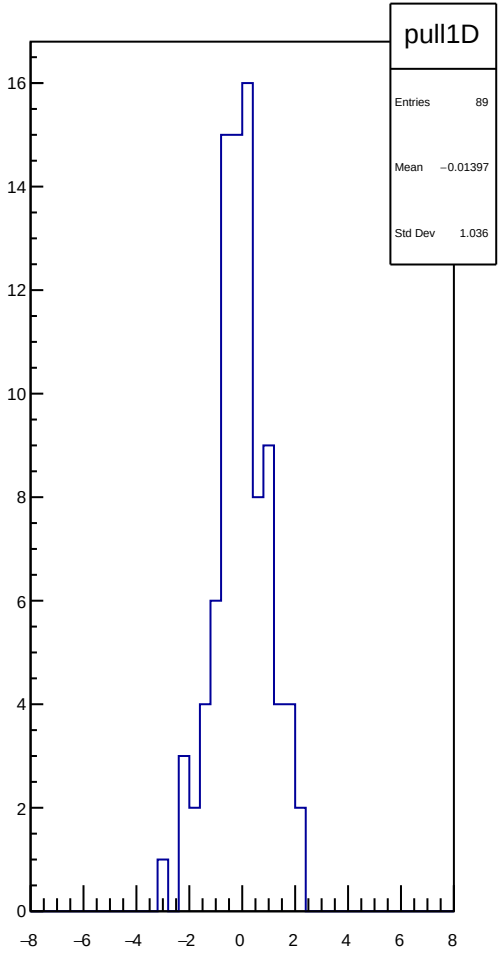

eigen_cor_asym_sam_26_dd_rms vs run
χ^2 / ndf 1859 / 88
p0 164.4 ± 0.1249
175
170
165
160
155
150

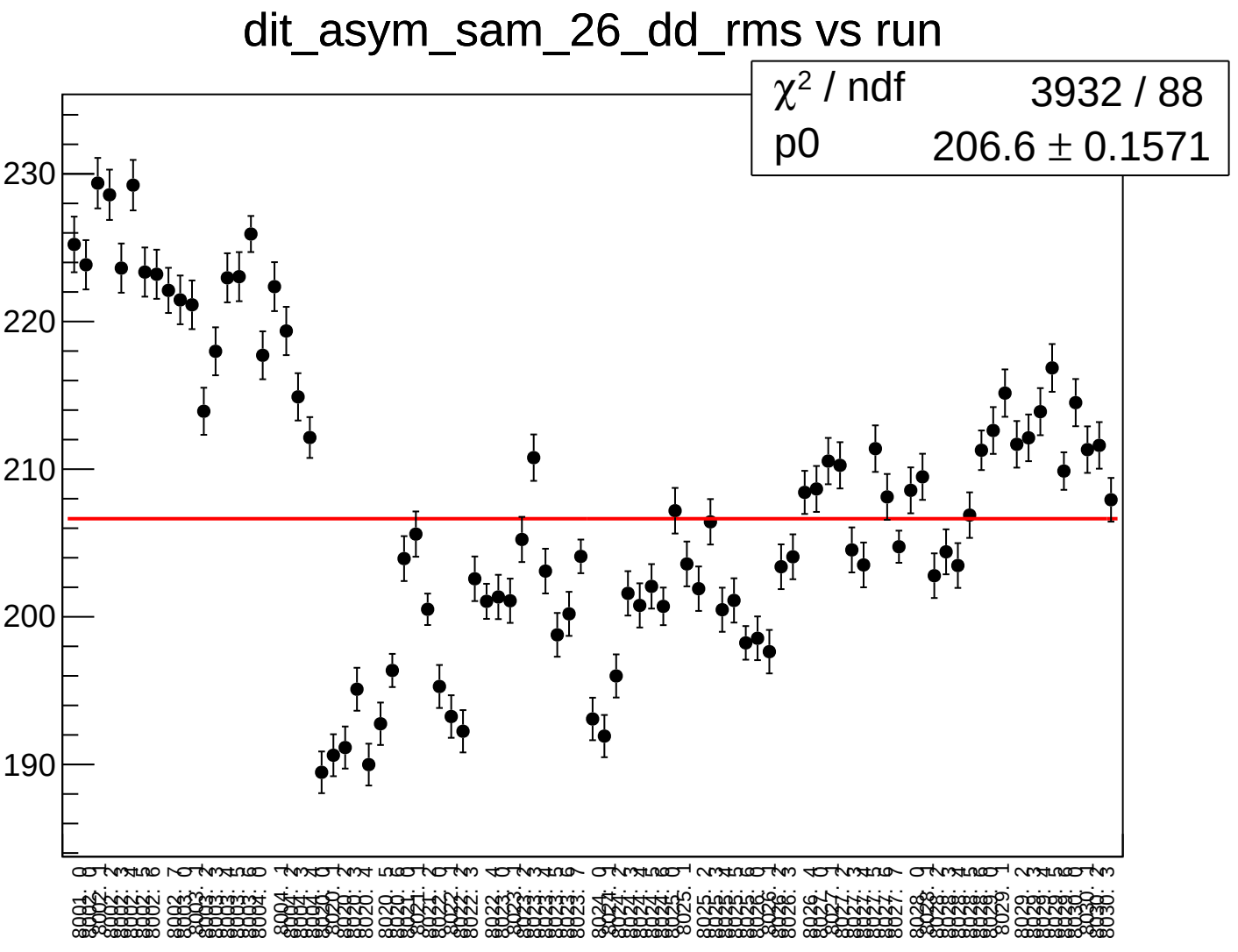

asym_sam_26_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 86.07 / 88
p0 347.5 ± 3084
150
100
50
0
−50
−100
pull
Entries 89
Mean 137.8
Std Dev 0
3
2
1
0
−1
−2

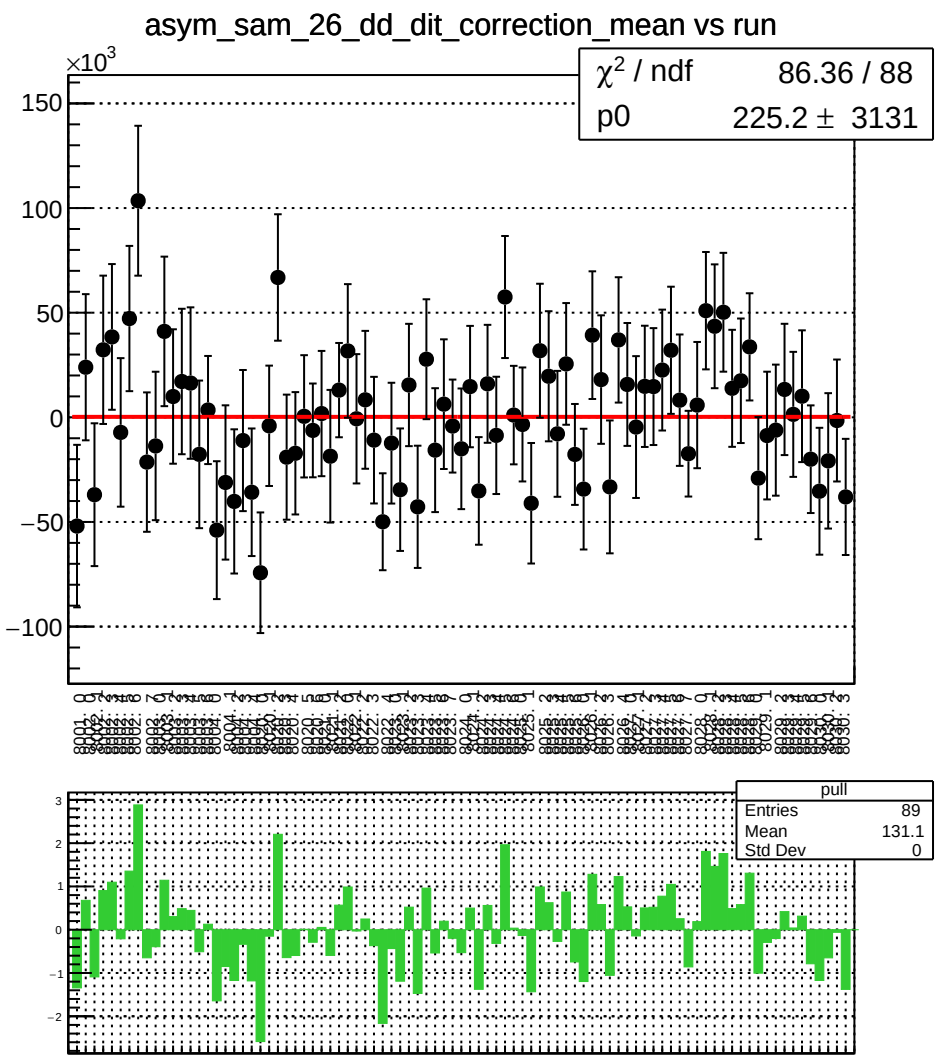

pull1D
Entries 89
Mean 0.01736
Std Dev 0.9832
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

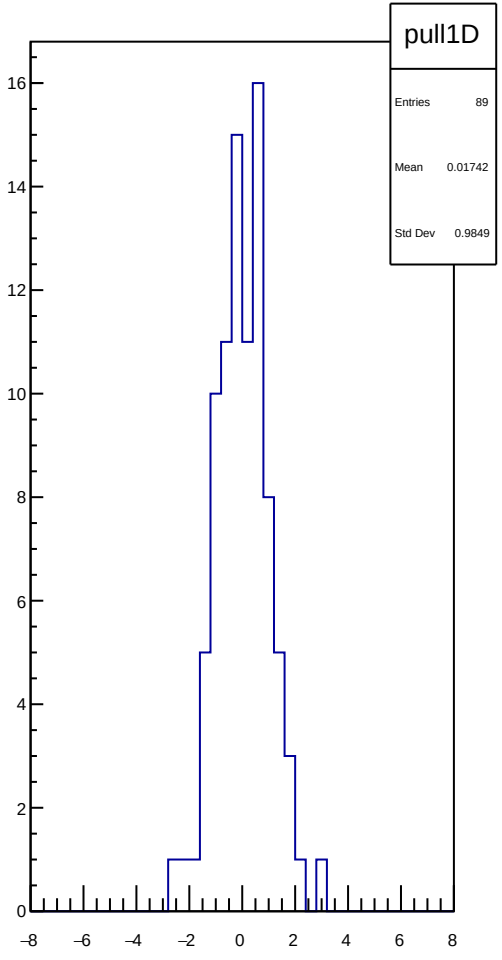

asym_sam_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 8717 / 88
p0 2865 ± 2.181
3400
3200
3000
2800
2600
2400

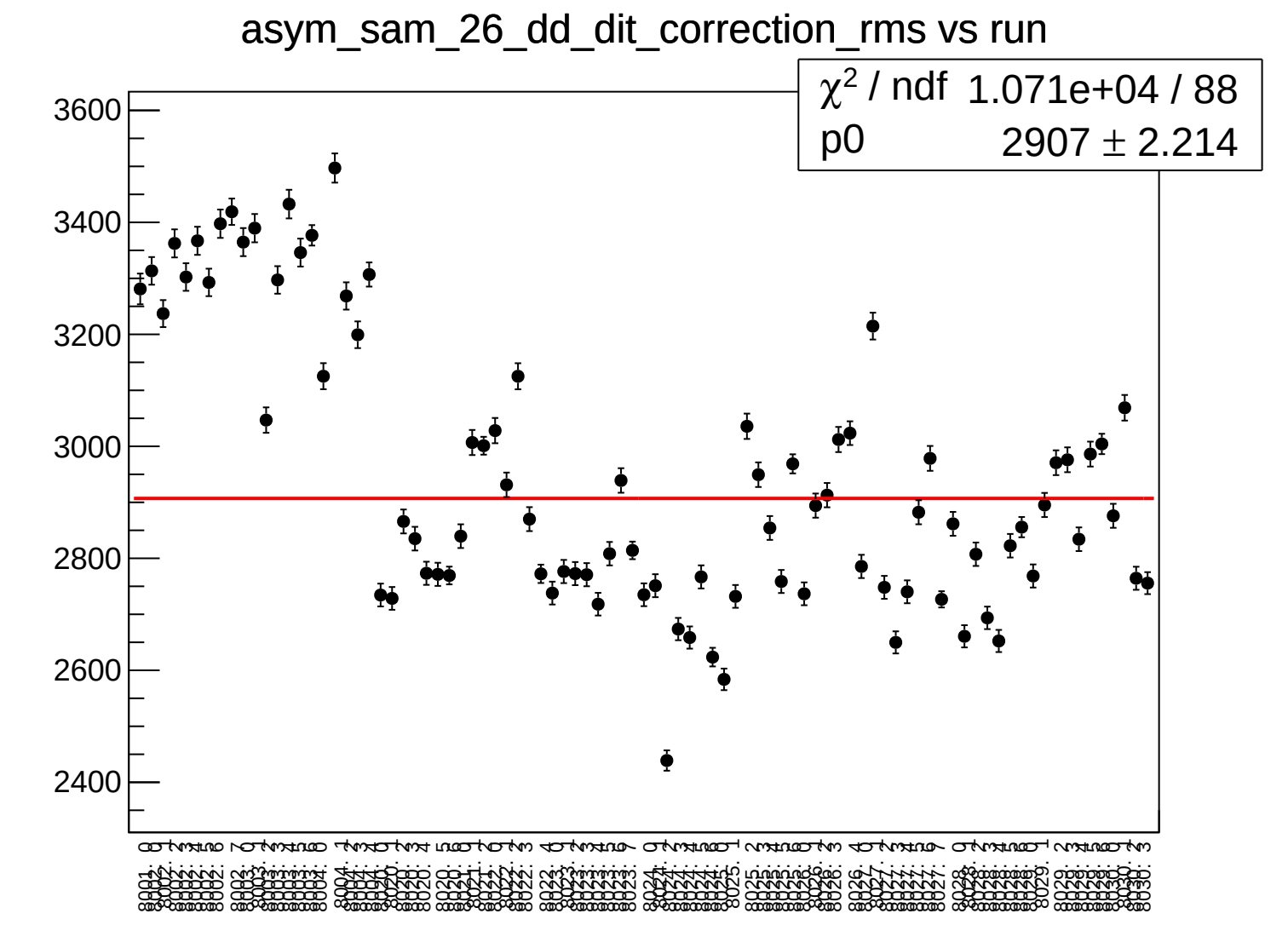

dit_asym_sam_26_dd_mean vs run
χ^2 / ndf 95.51 / 88
p0 200.7 ± 222.1
pull
Entries 89
Mean −15.6
Std Dev 15.4

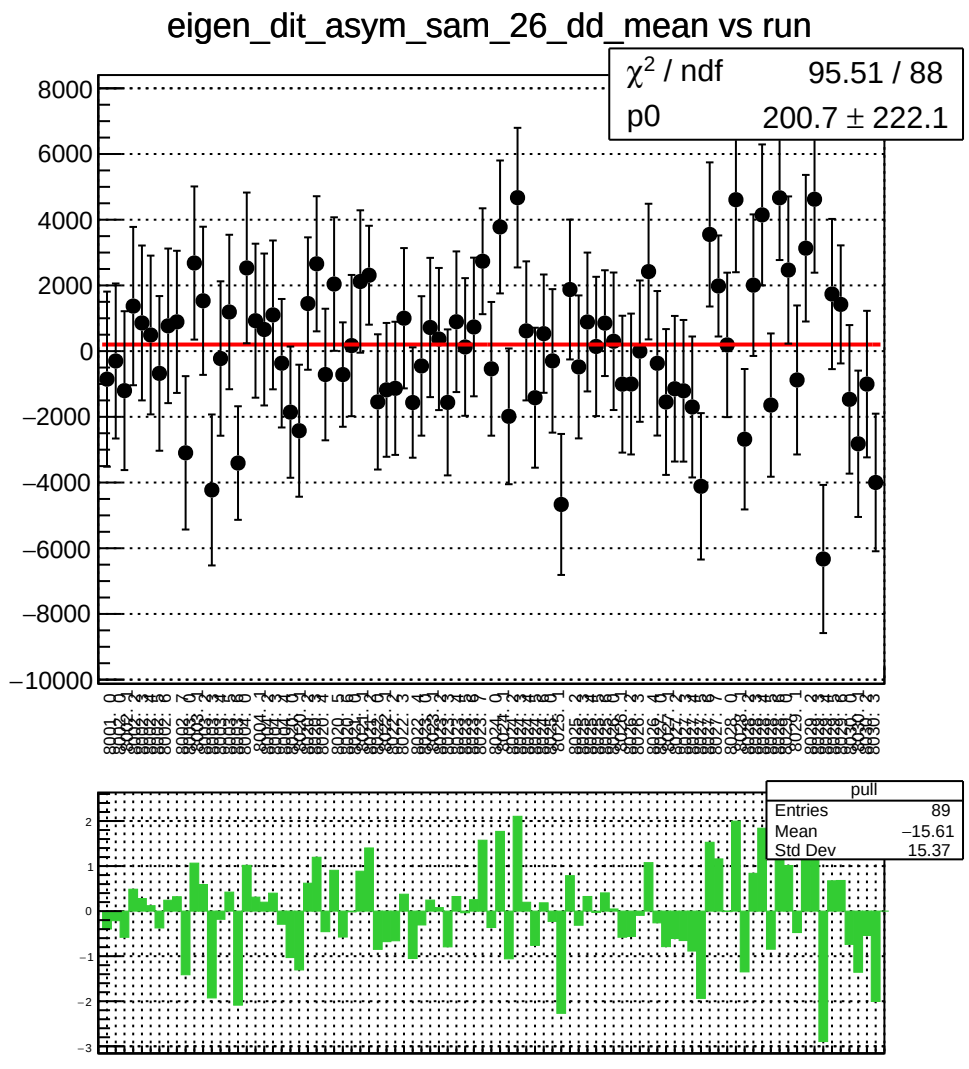

pull1D
Entries 89
Mean −0.01397
Std Dev 1.036

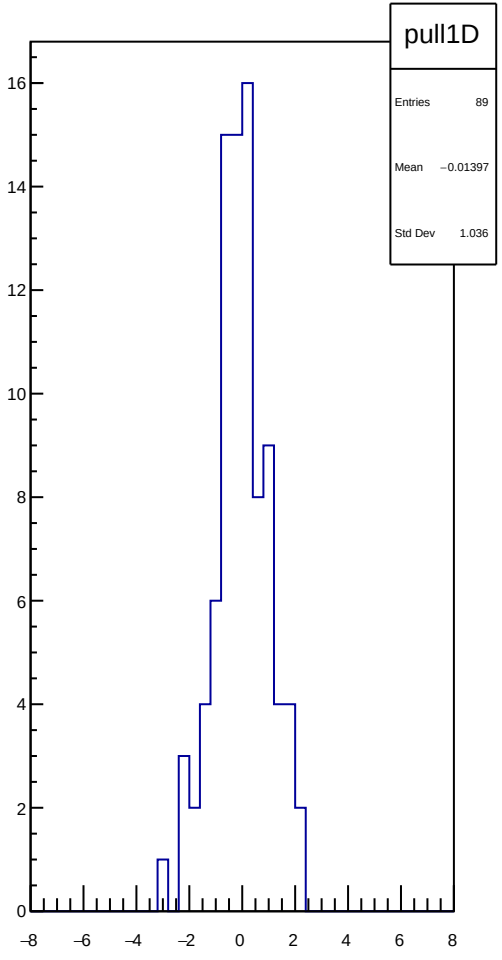

dit_asym_sam_26_dd_rms vs run
χ² / ndf 3932 / 88
p0 206.6 ± 0.1571
230
220
210
200
190

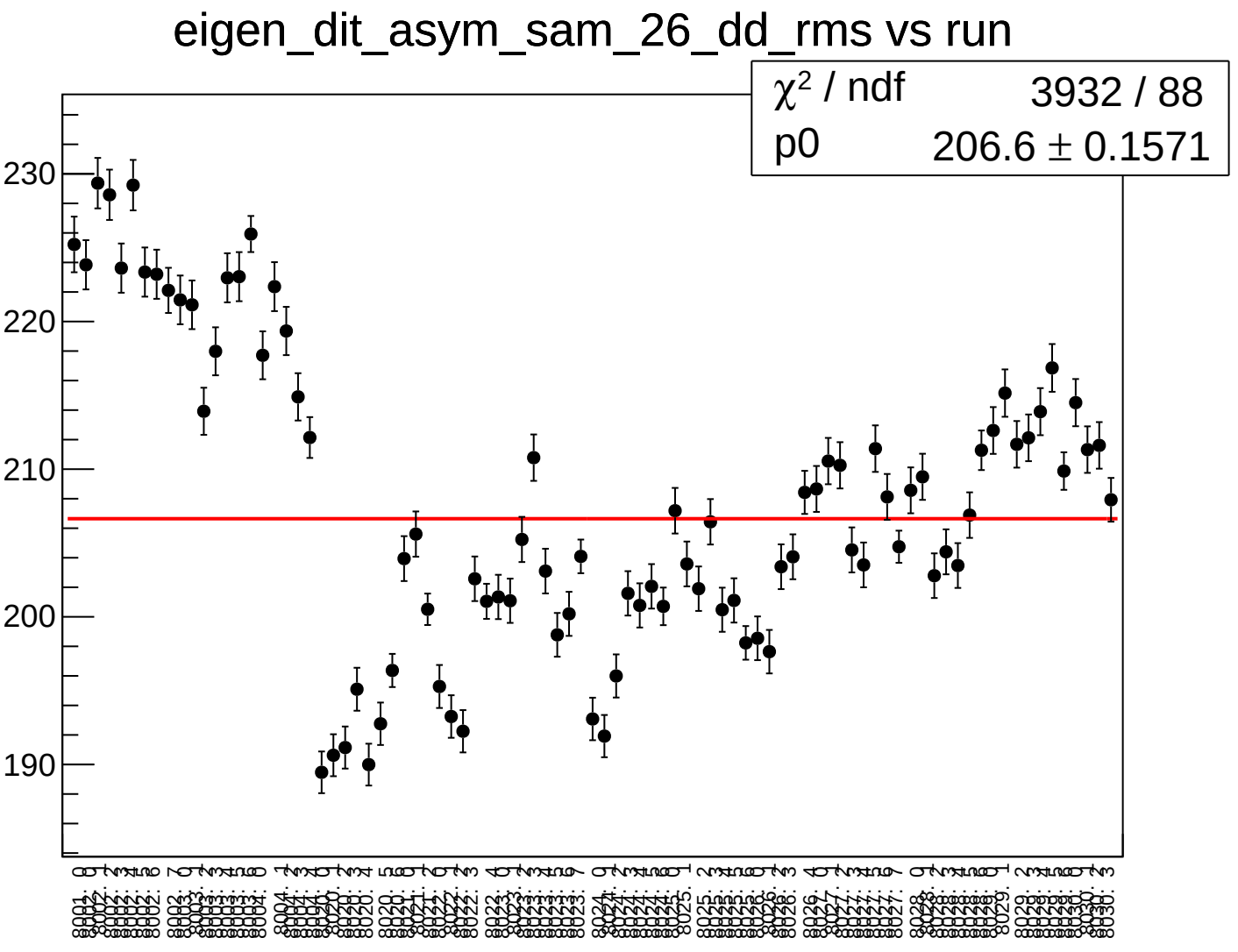

asym_sam_26_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 86.36 / 88
p0 225.2 ± 3131
150
100
50
0
−50
−100
pull
Entries 89
Mean 131.1
Std Dev 0
3
2
1
0
−1
−2

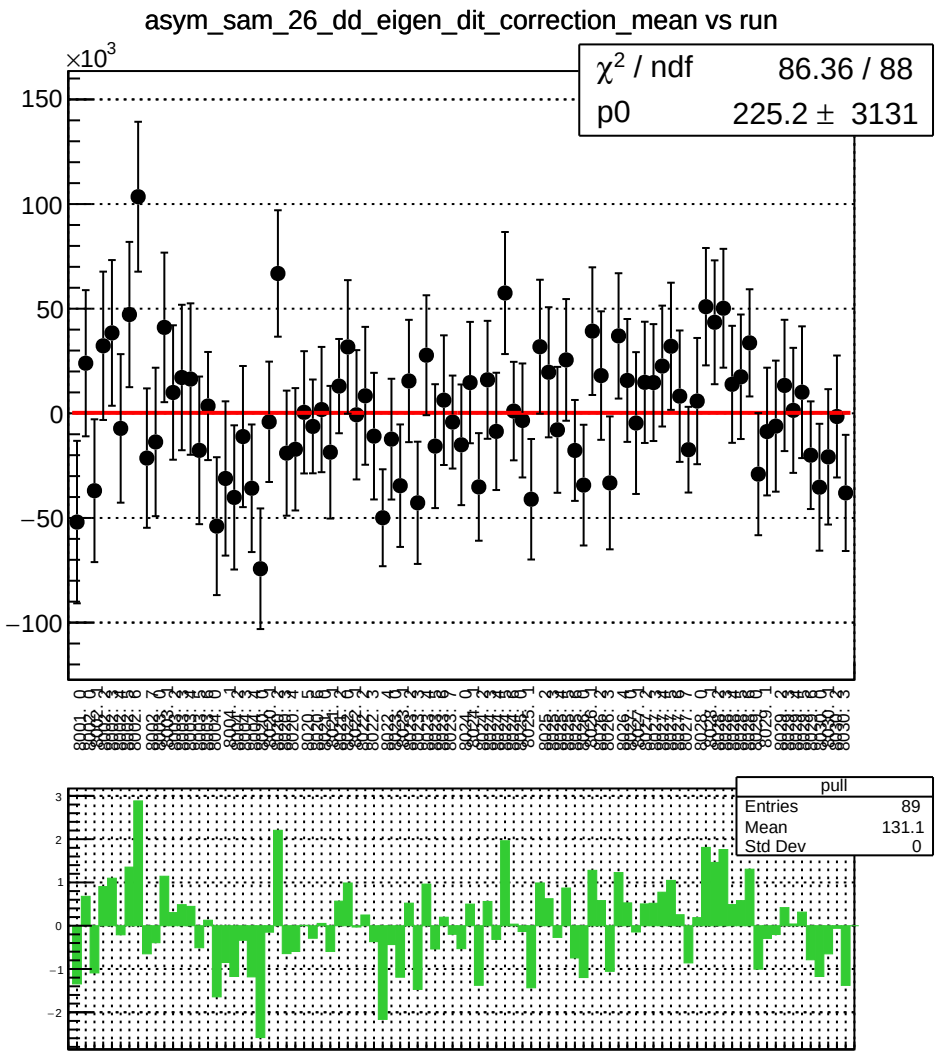

pull1D
Entries 89
Mean 0.01742
Std Dev 0.9849
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

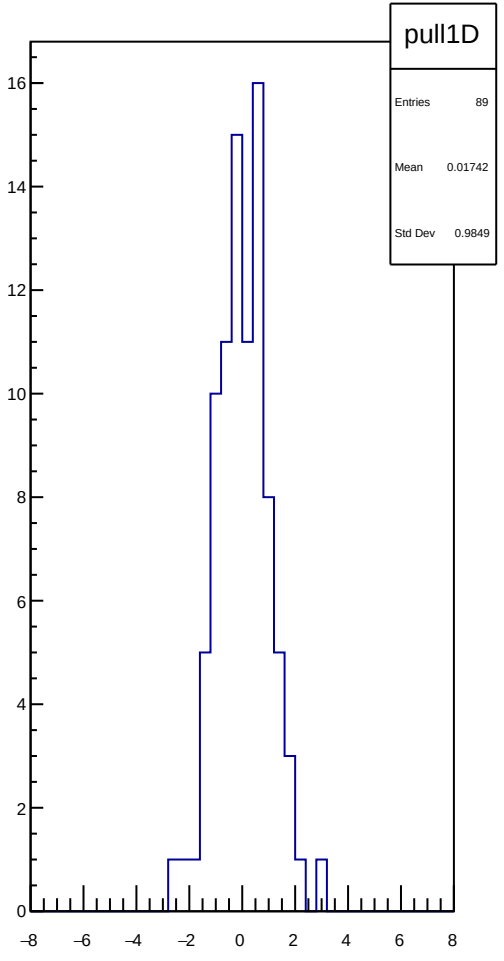

asym_sam_26_dd_dit_correction_rms vs run
χ² / ndf 1.071e+04 / 88
p0 2907 ± 2.214
3600
3400
3200
3000
2800
2600
2400

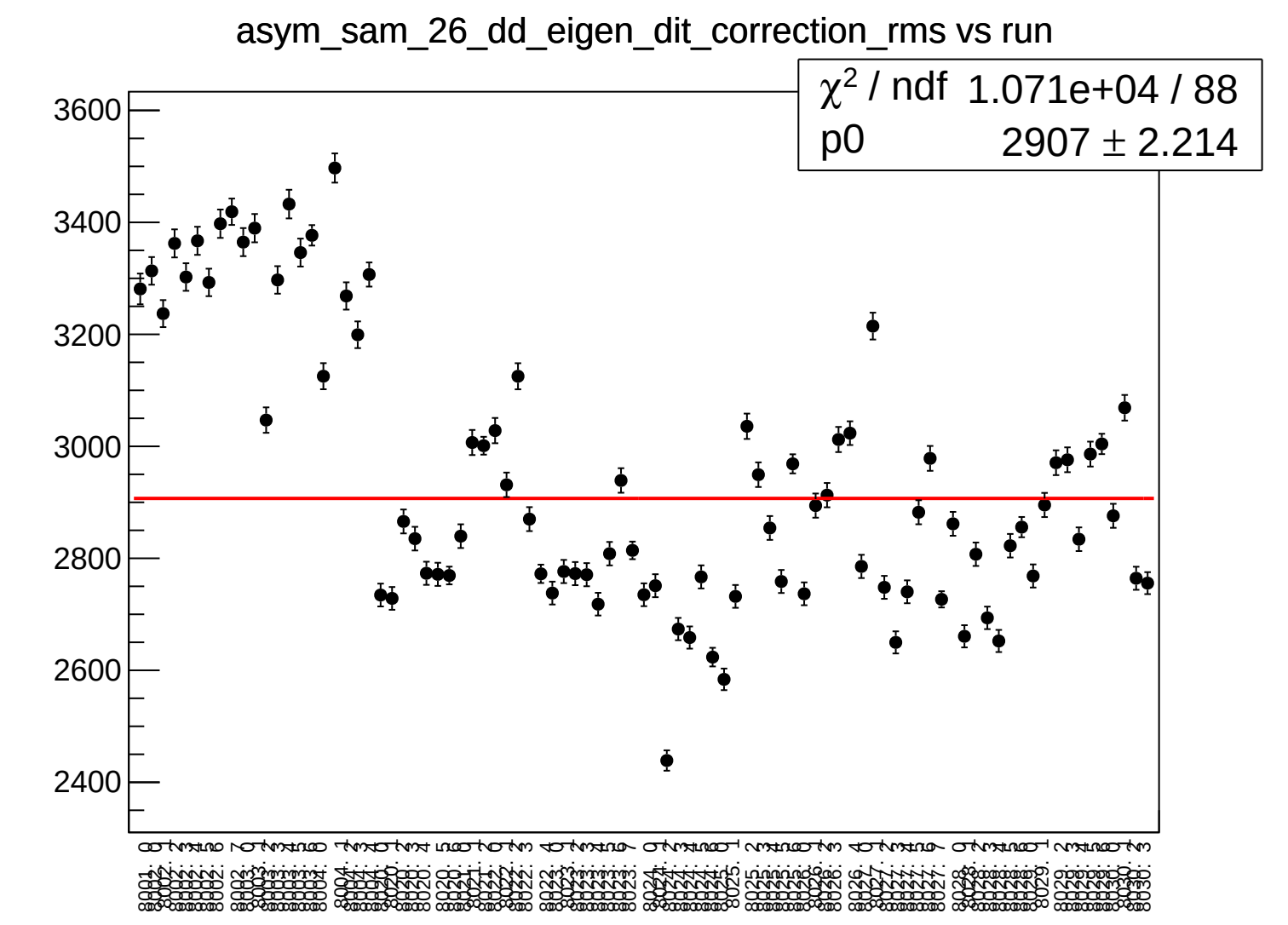

eigen_dit_asym_sam_26_dd_mean vs run
χ² / ndf 95.51 / 88
p0 200.7 ± 222.1
pull
Entries 89
Mean −15.61
Std Dev 15.37

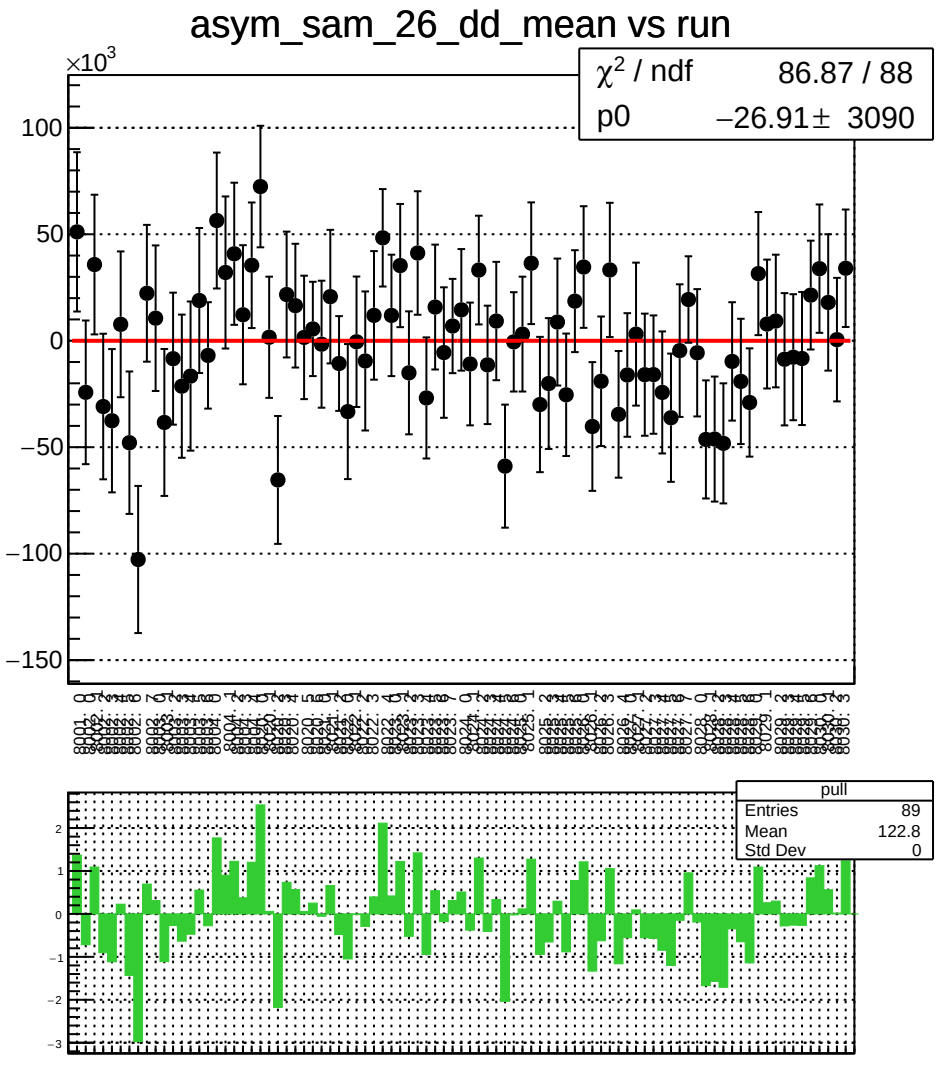

pull1D
Entries 89
Mean −0.01397
Std Dev 1.036

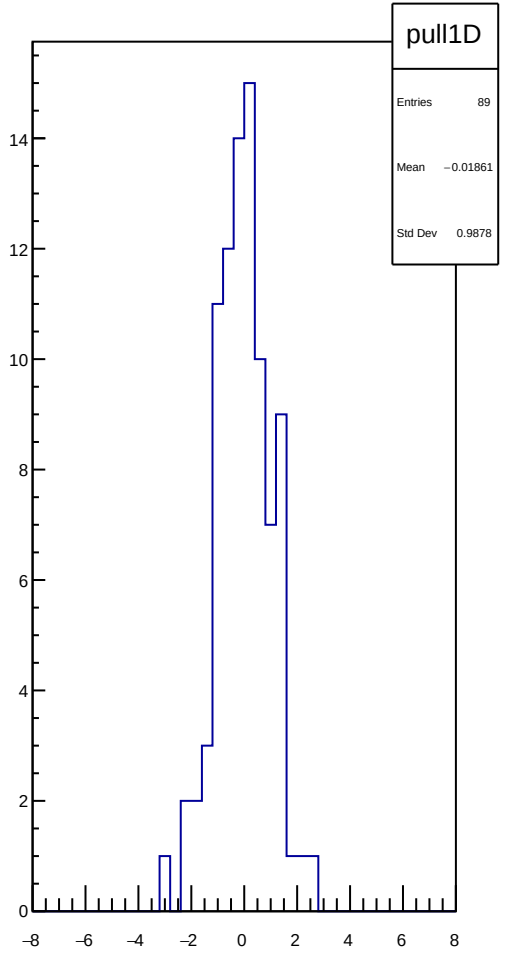

eigen_dit_asym_sam_26_dd_rms vs run
χ² / ndf 3932 / 88
p0 206.6 ± 0.1571
230
220
210
200
190

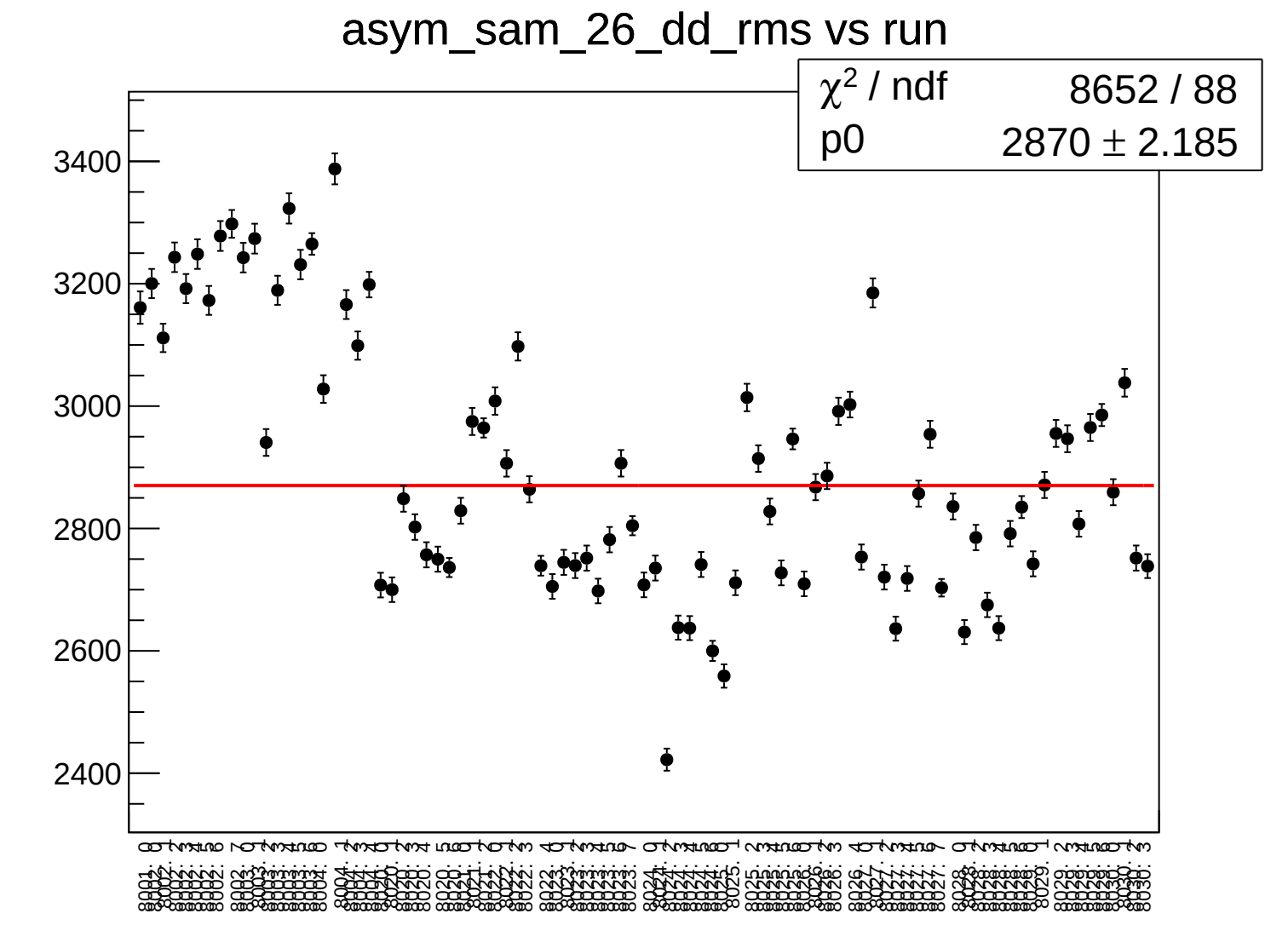

asym_sam_26_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 86.36 / 88
p0 225.2 ± 3131
150
100
50
0
−50
−100
pull
Entries 89
Mean 131.1
Std Dev 0
3
2
1
0
−1
−2

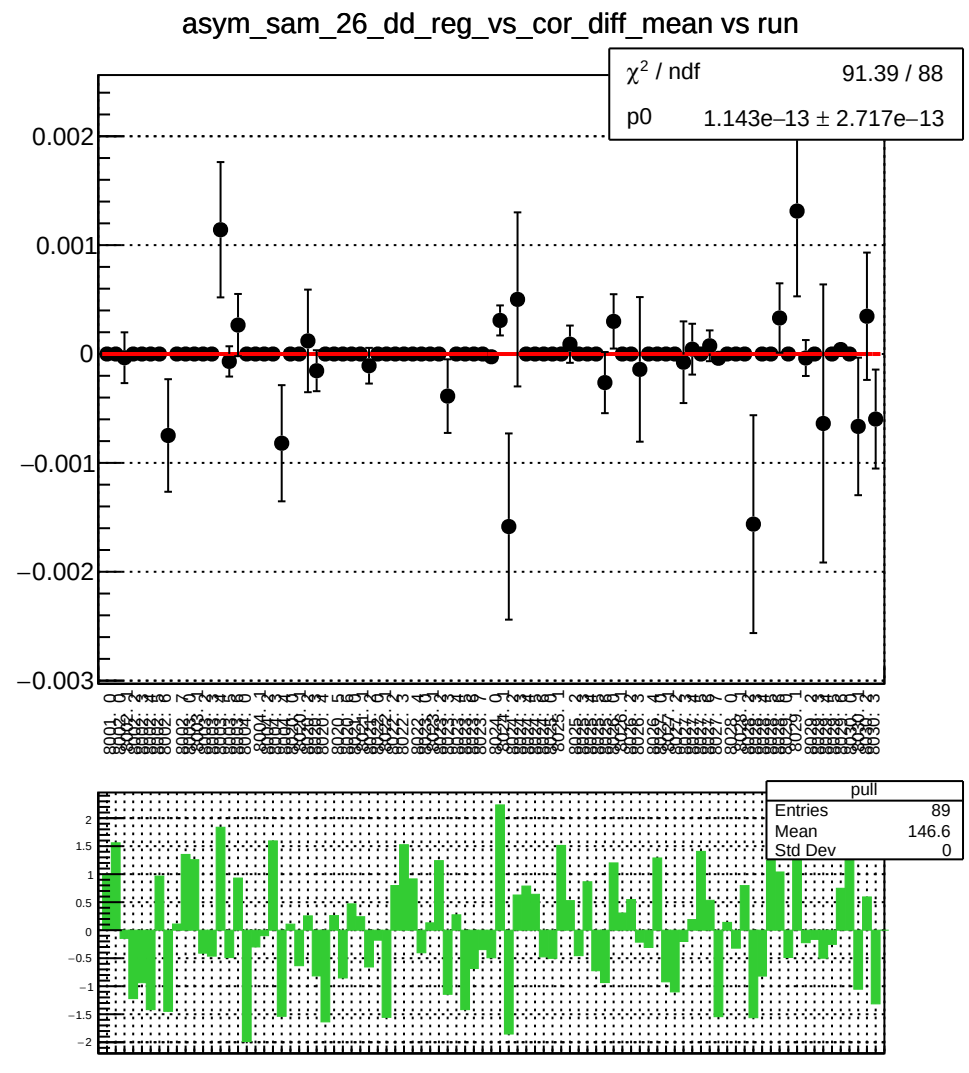

pull1D
Entries 89
Mean 0.01742
Std Dev 0.9849
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

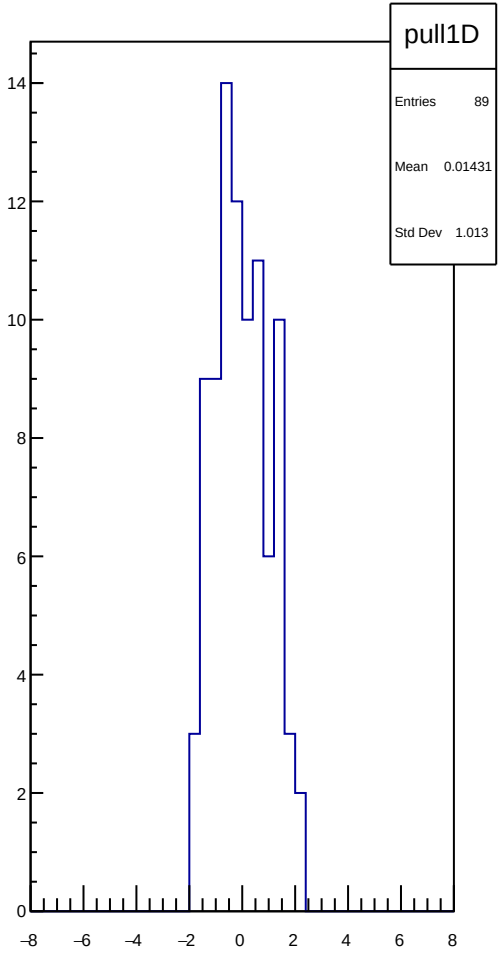

asym_sam_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.071e+04 / 88
p0 2907 ± 2.214
3600
3400
3200
3000
2800
2600
2400

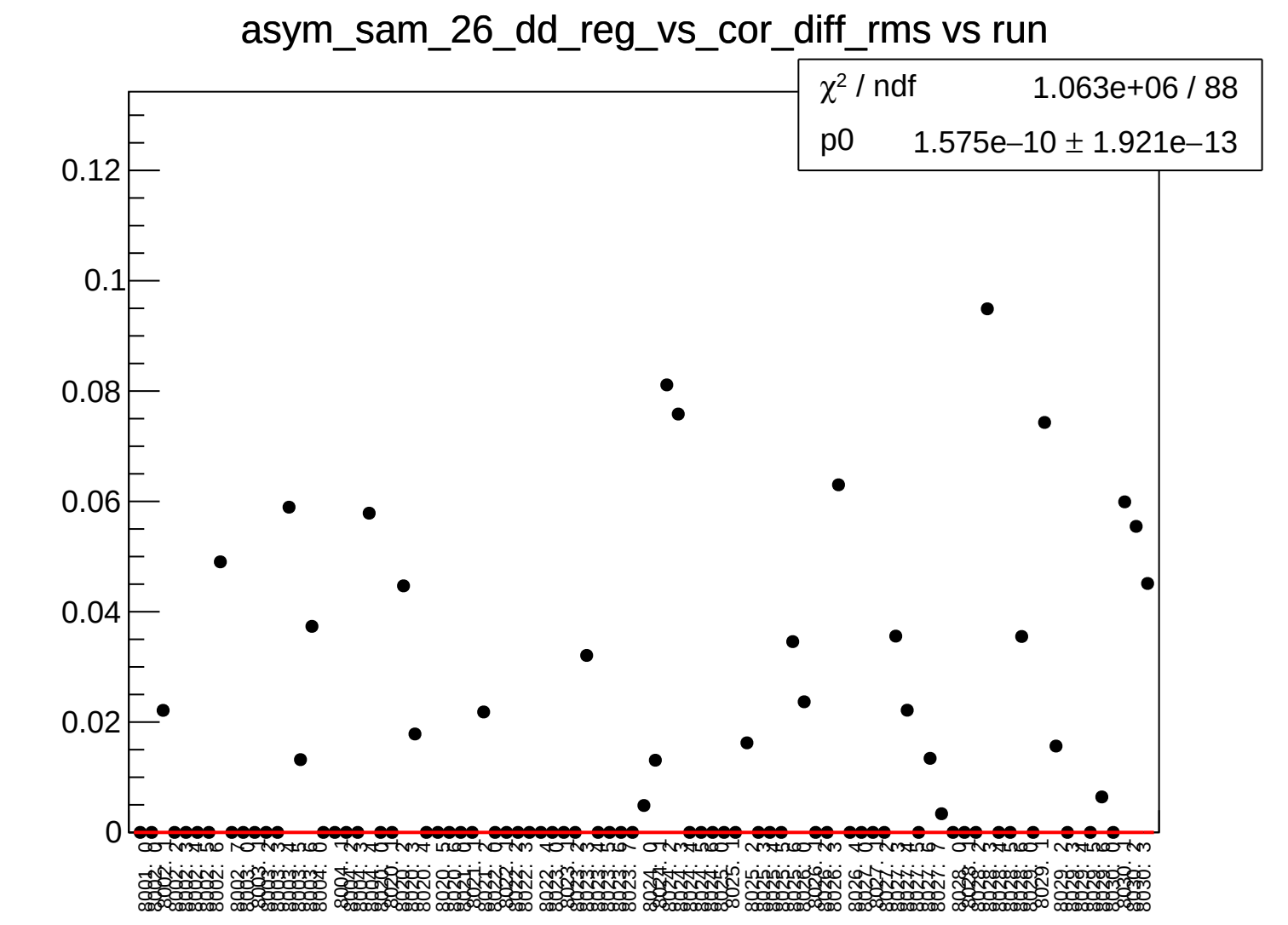

asym_sam_26_dd_mean vs run
×10^3
χ^2 / ndf 86.87 / 88
p0 −26.91± 3090
100
50
0
−50
−100
−150
pull
Entries 89
Mean 122.8
Std Dev 0
2
1
0
−1
−2
−3

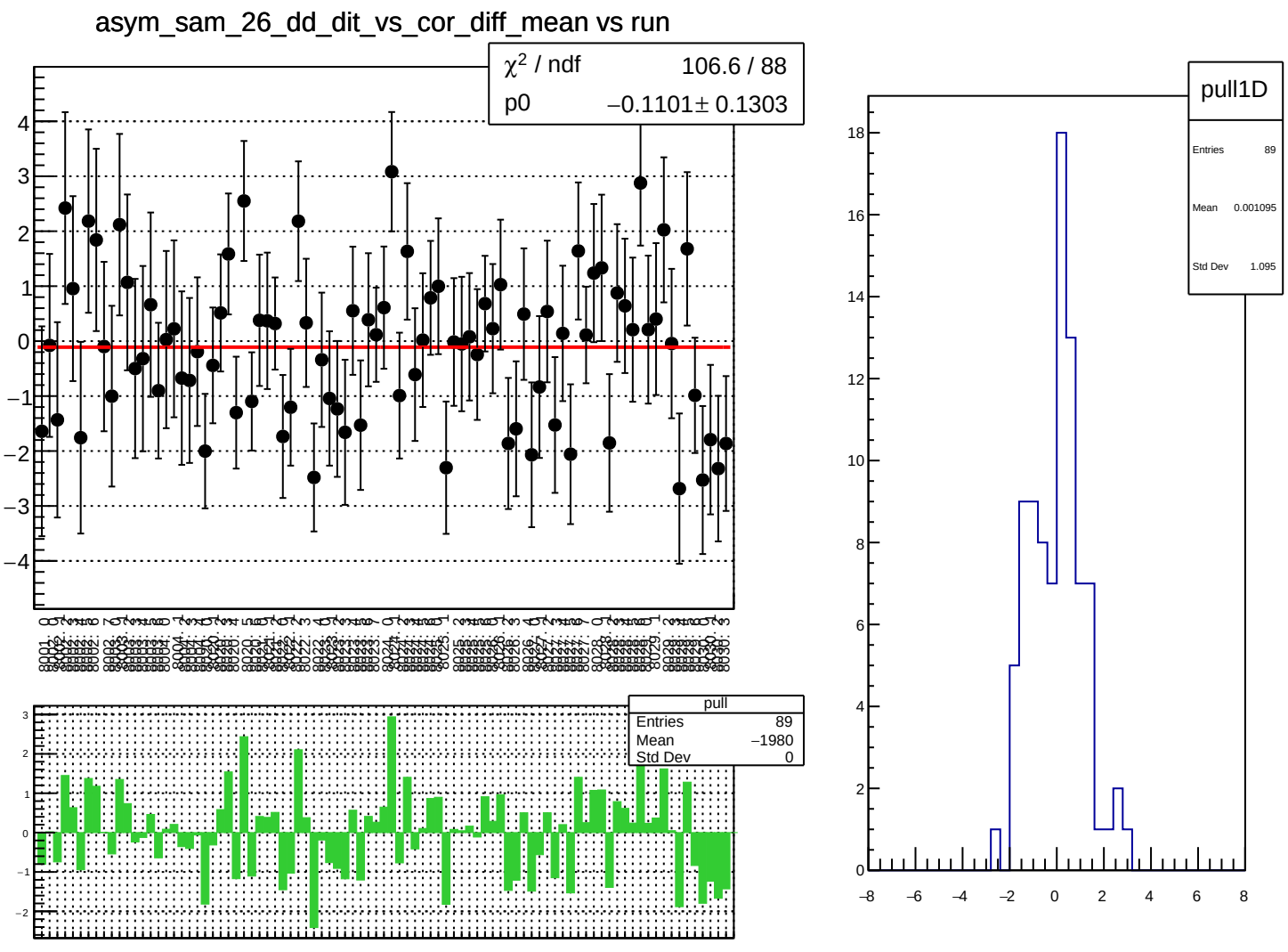

pull1D
Entries 89
Mean −0.01861
Std Dev 0.9878
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

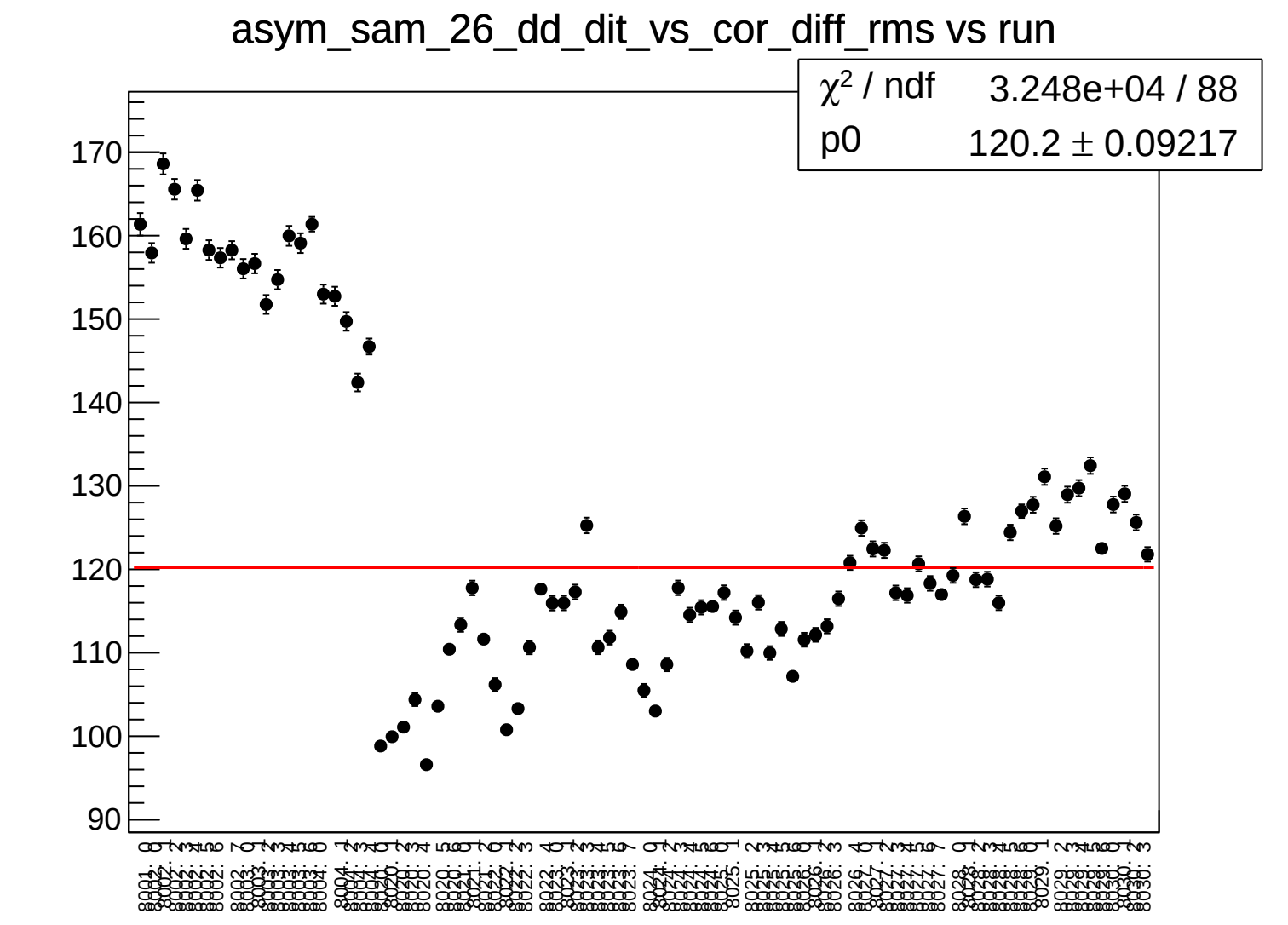

asym_sam_26_dd_rms vs run
χ² / ndf 8652 / 88
p0 2870 ± 2.185
3400
3200
3000
2800
2600
2400

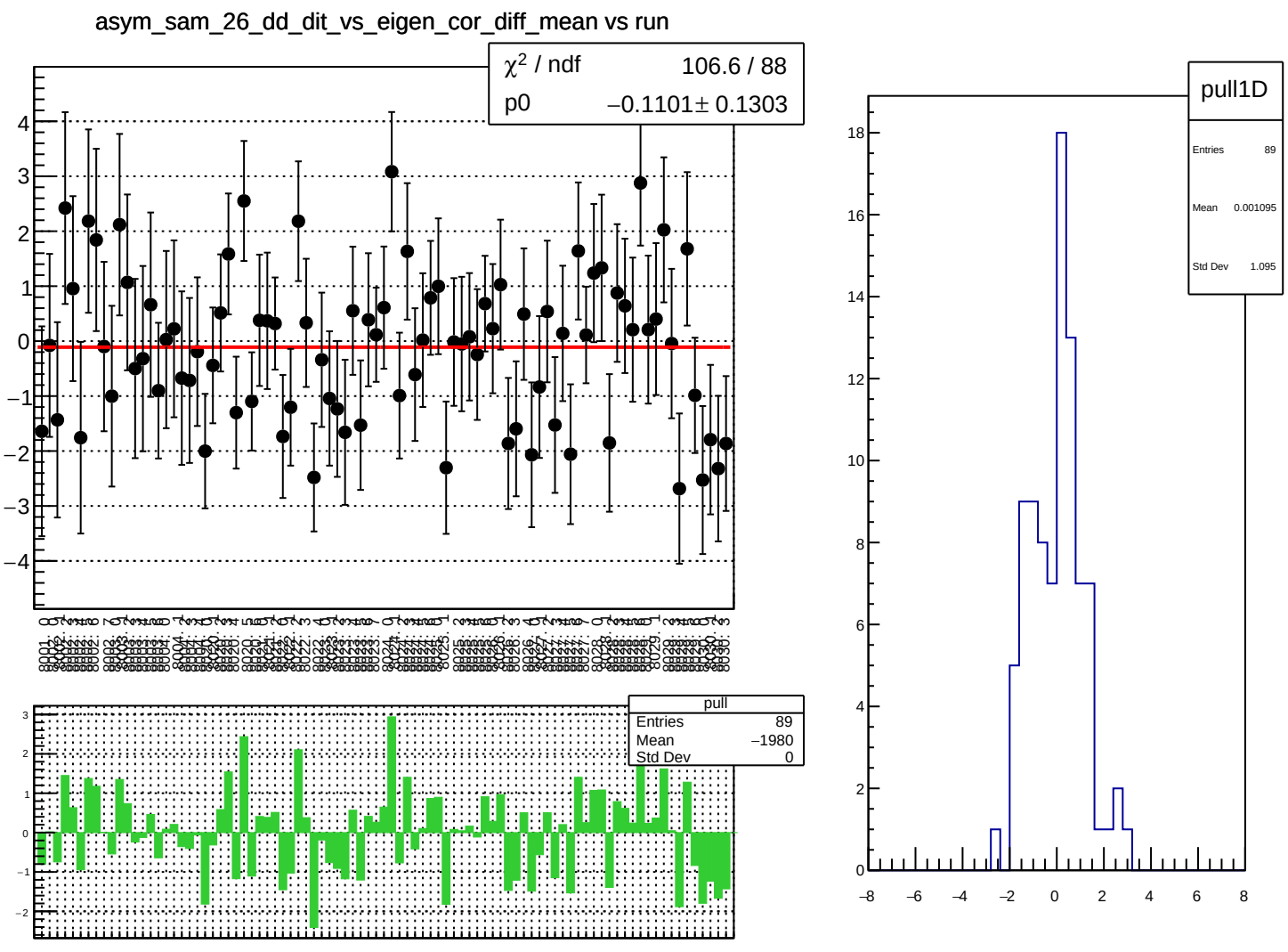

asym_sam_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 91.39 / 88
p0 1.143e−13 ± 2.717e−13
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 89
Mean 146.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

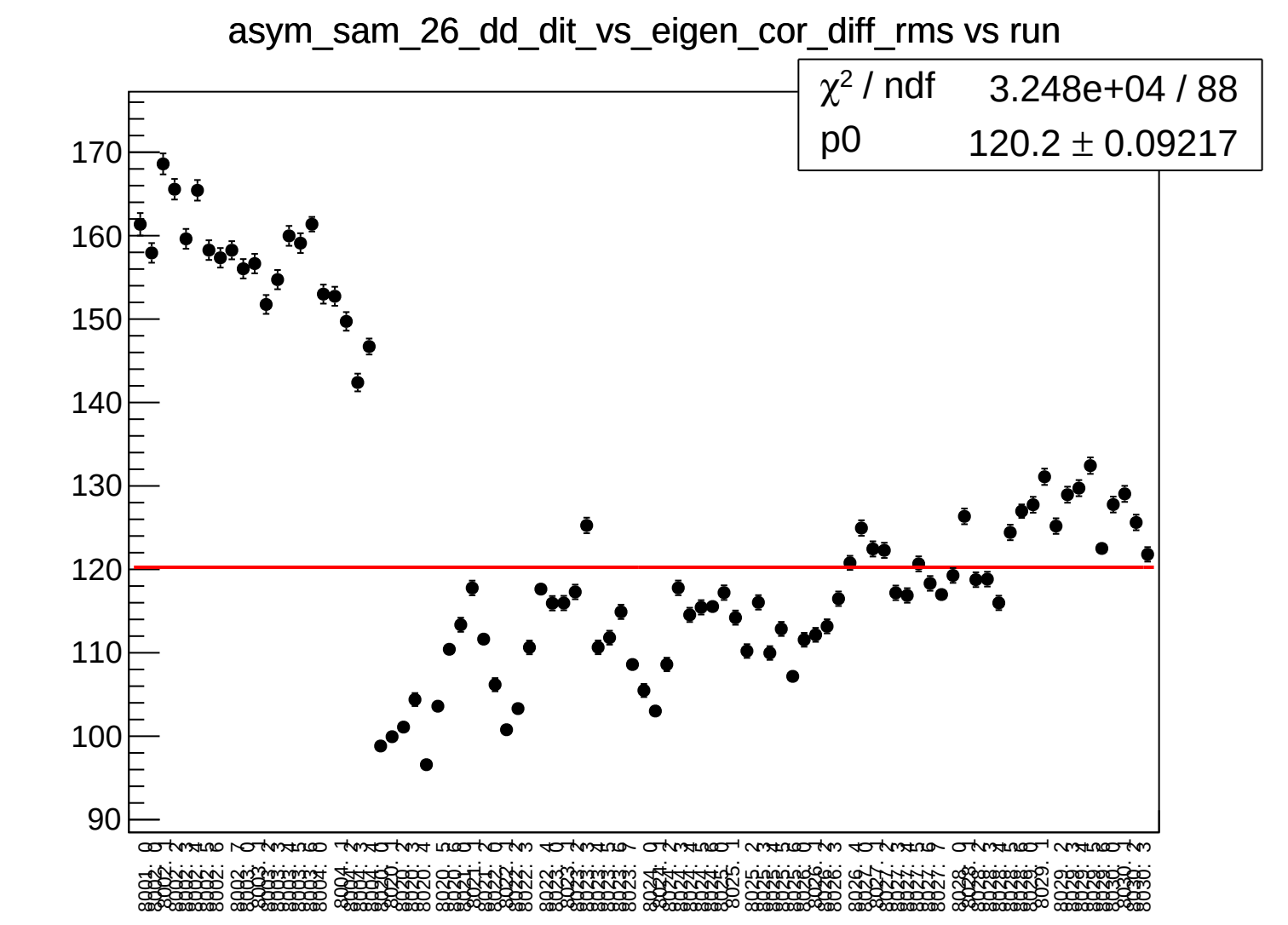

pull1D
Entries 89
Mean 0.01431
Std Dev 1.013
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

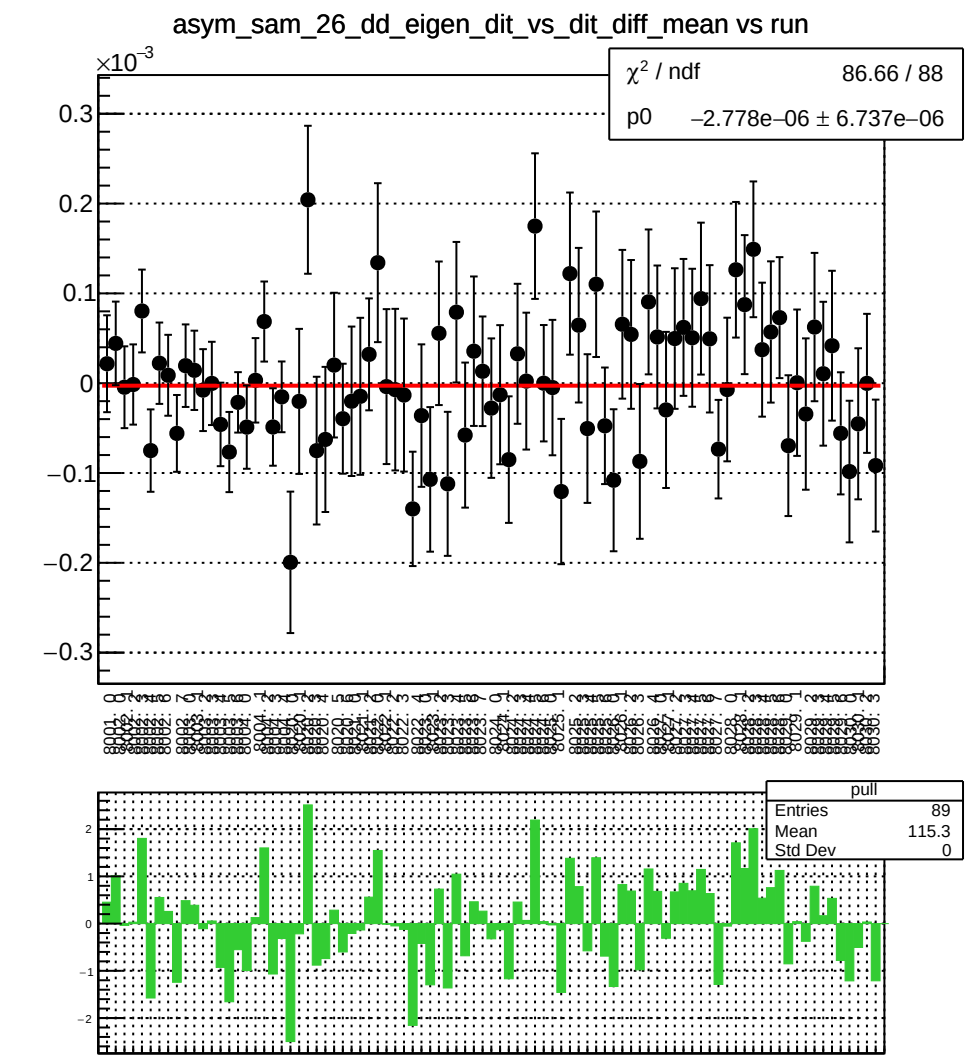

asym_sam_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.063e+06 / 88
p0 1.575e−10 ± 1.921e−13
0.12
0.1
0.08
0.06
0.04
0.02
0

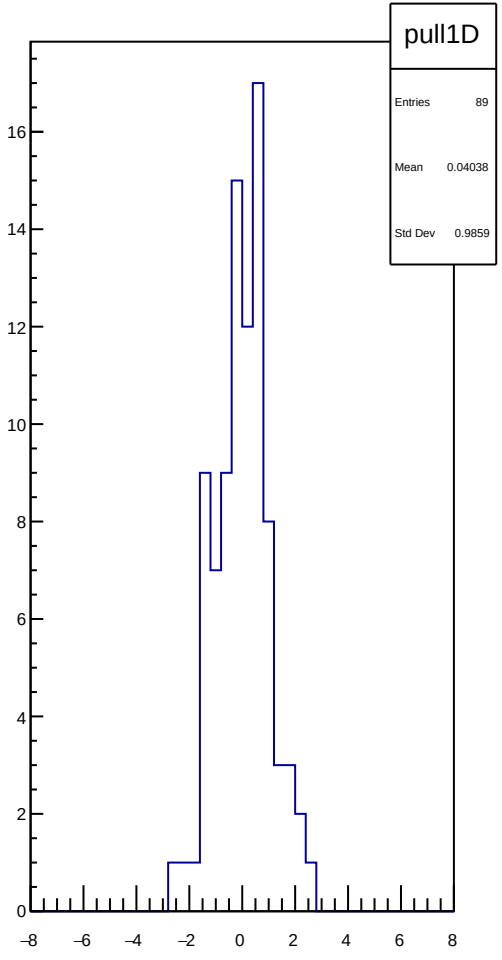

asym_sam_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 106.6 / 88
p0 −0.1101± 0.1303
pull
Entries 89
Mean −1980
Std Dev 0
pull1D
Entries 89
Mean 0.001095
Std Dev 1.095

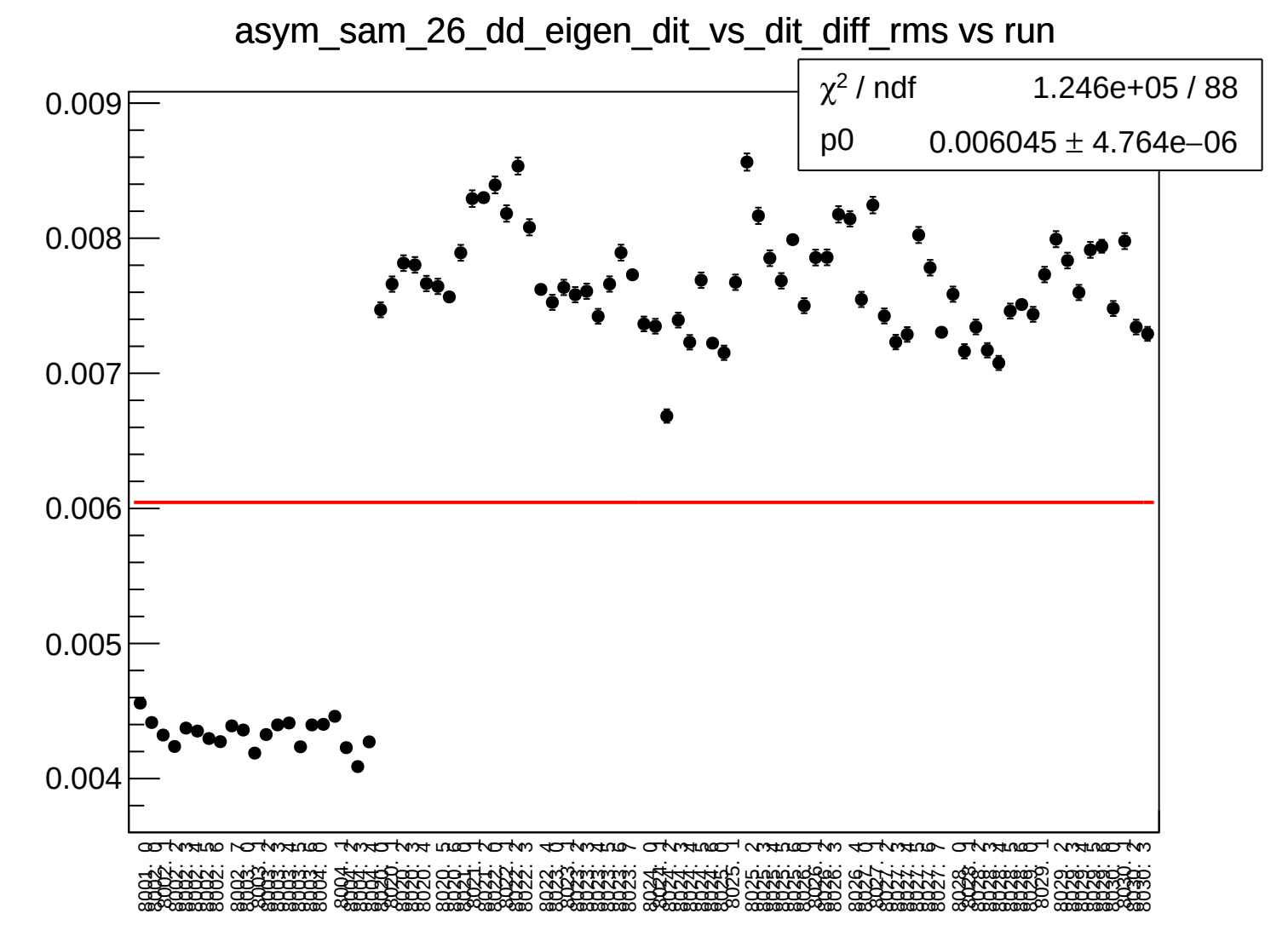

asym_sam_26_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.248e+04 / 88
p0 120.2 ± 0.09217
170
160
150
140
130
120
110
100
90

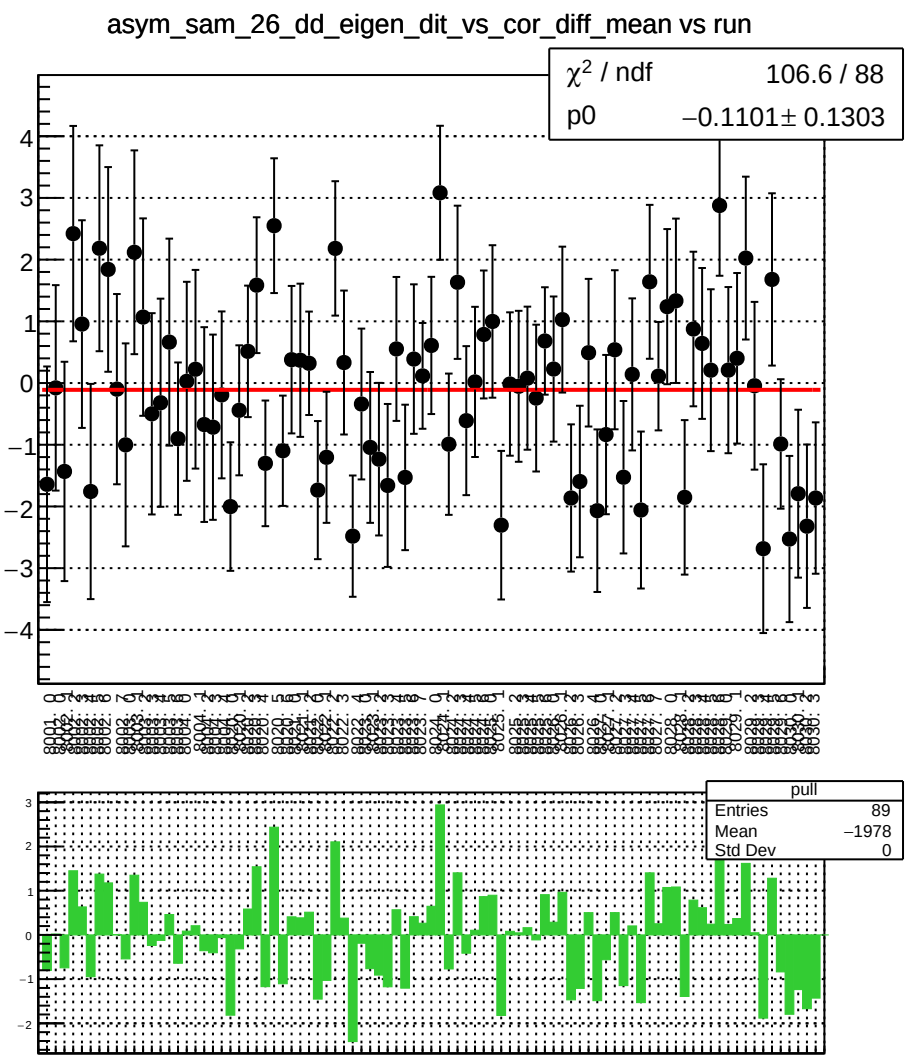

asym_sam_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.6 / 88
p0 −0.1101± 0.1303
pull
Entries 89
Mean −1980
Std Dev 0
pull1D
Entries 89
Mean 0.001095
Std Dev 1.095

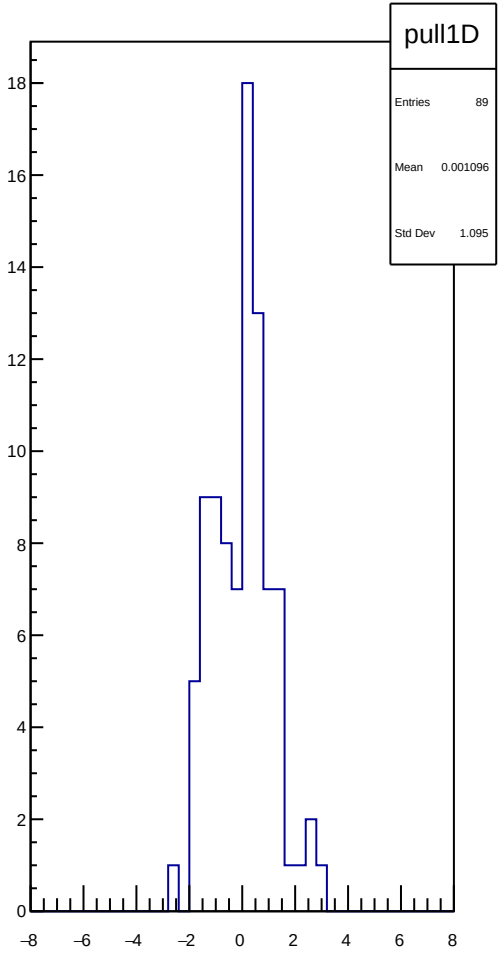

asym_sam_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.248e+04 / 88
p0 120.2 ± 0.09217
170
160
150
140
130
120
110
100
90

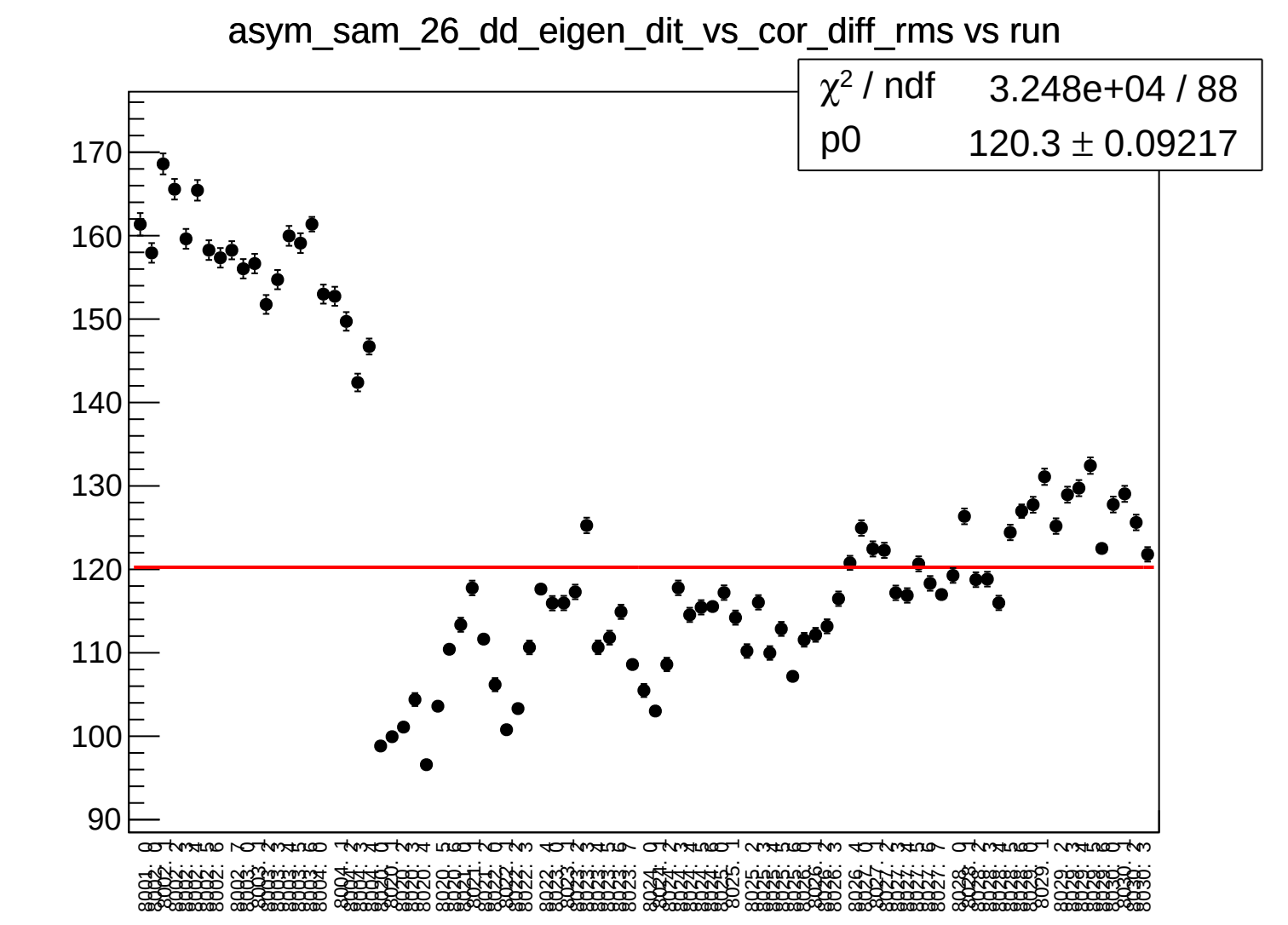

asym_sam_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.66 / 88
p0 −2.778e−06 ± 6.737e−06
pull
Entries 89
Mean 115.3
Std Dev 0

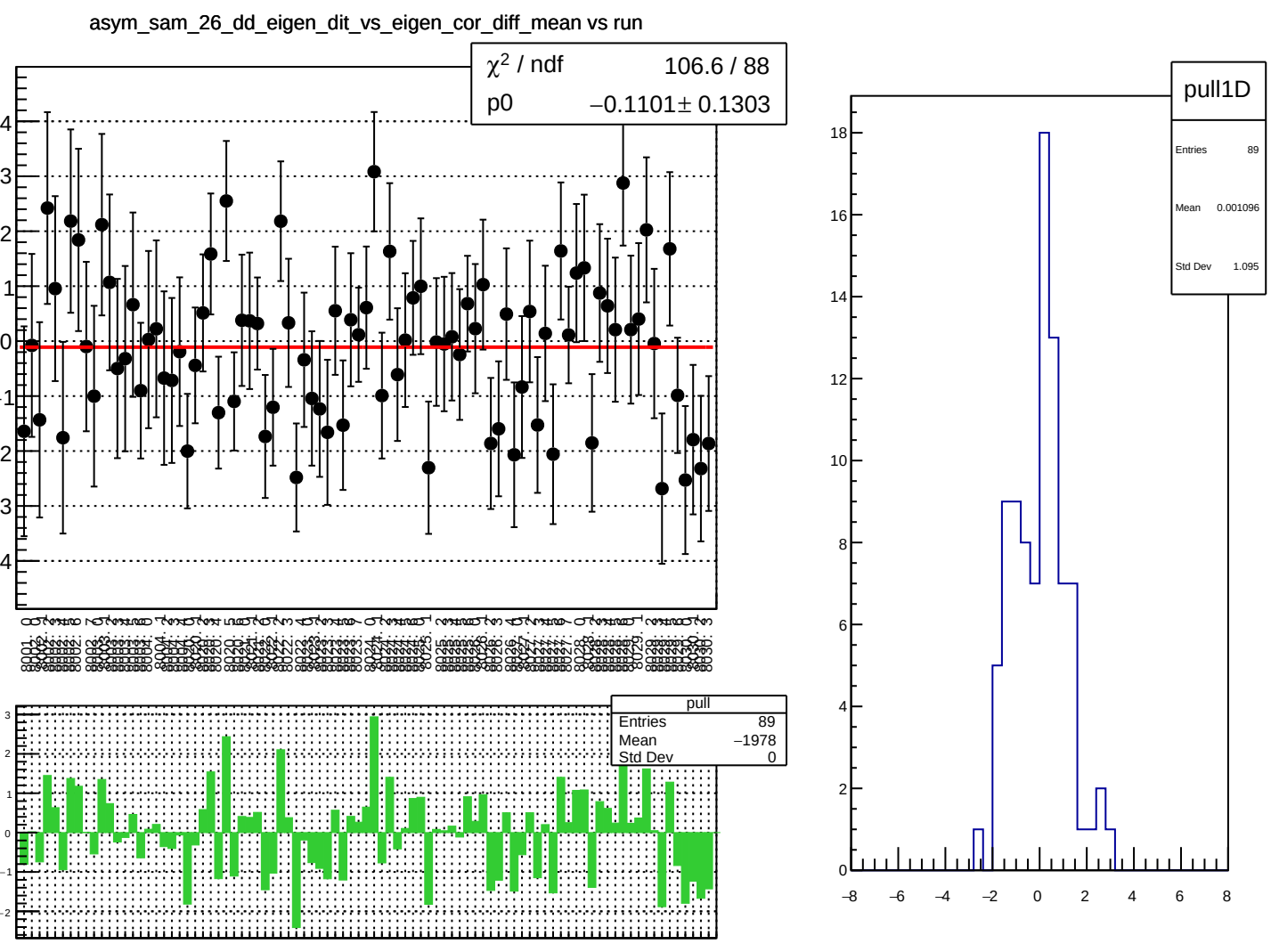

pull1D
Entries 89
Mean 0.04038
Std Dev 0.9859

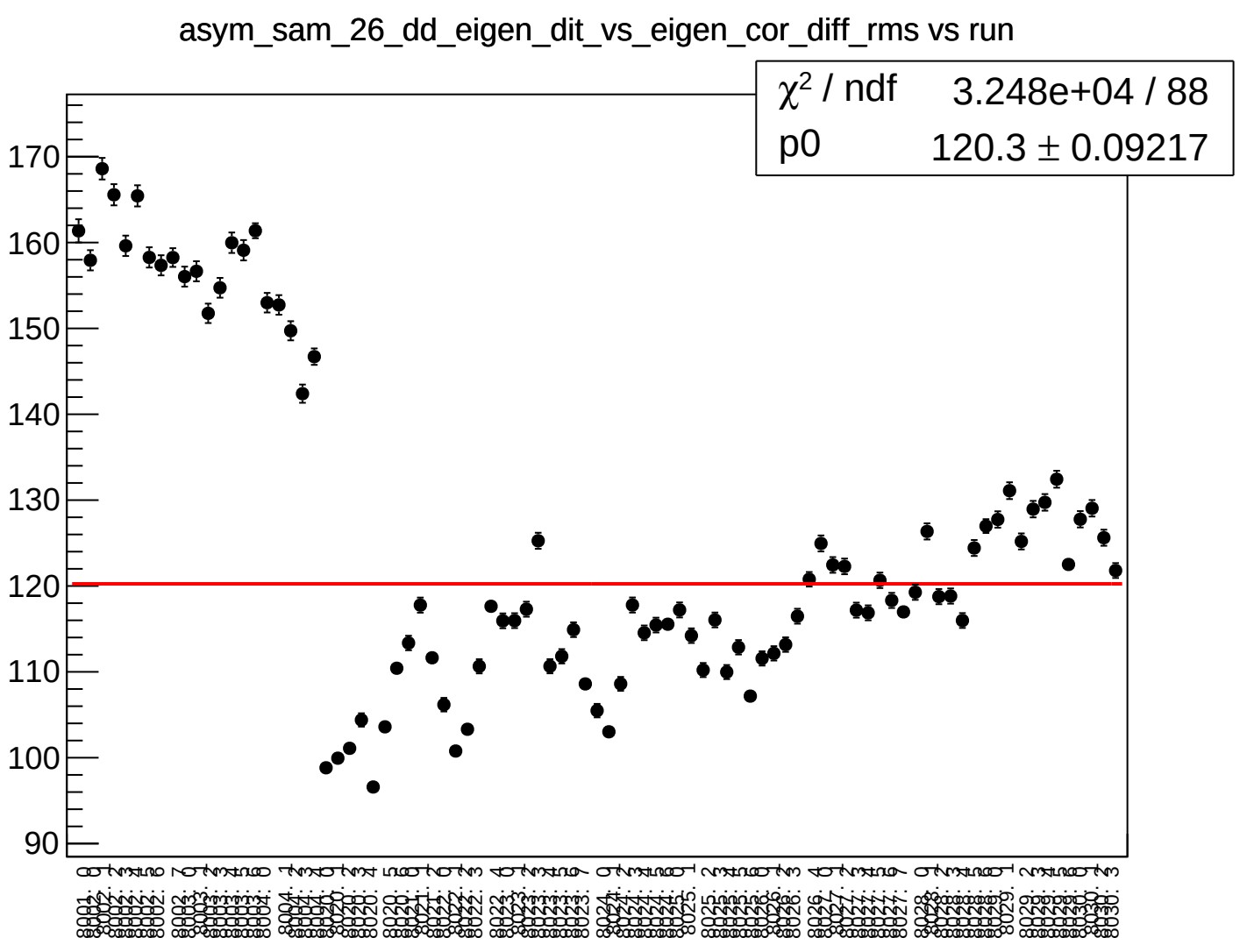

asym_sam_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.246e+05 / 88
p0 0.006045 ± 4.764e−06
0.009
0.008
0.007
0.006
0.005
0.004

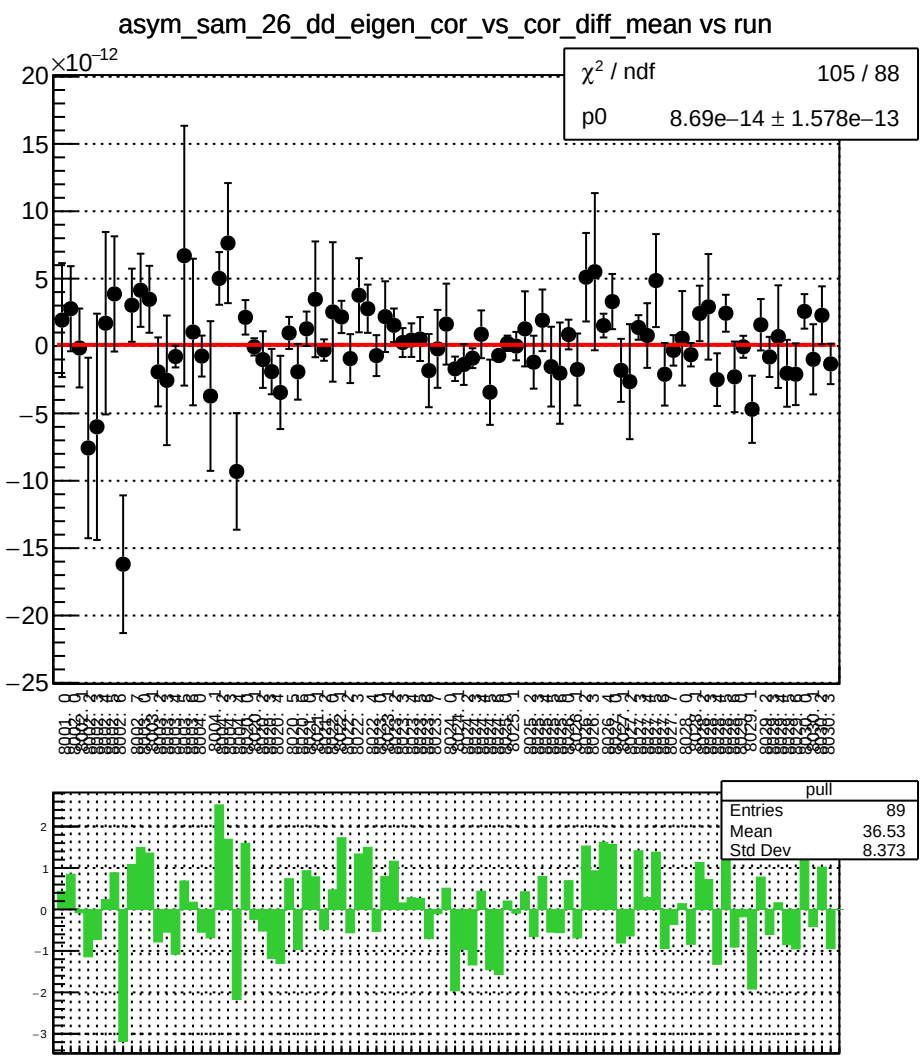

asym_sam_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 106.6 / 88
p0 −0.1101± 0.1303
pull
Entries 89
Mean −1978
Std Dev 0

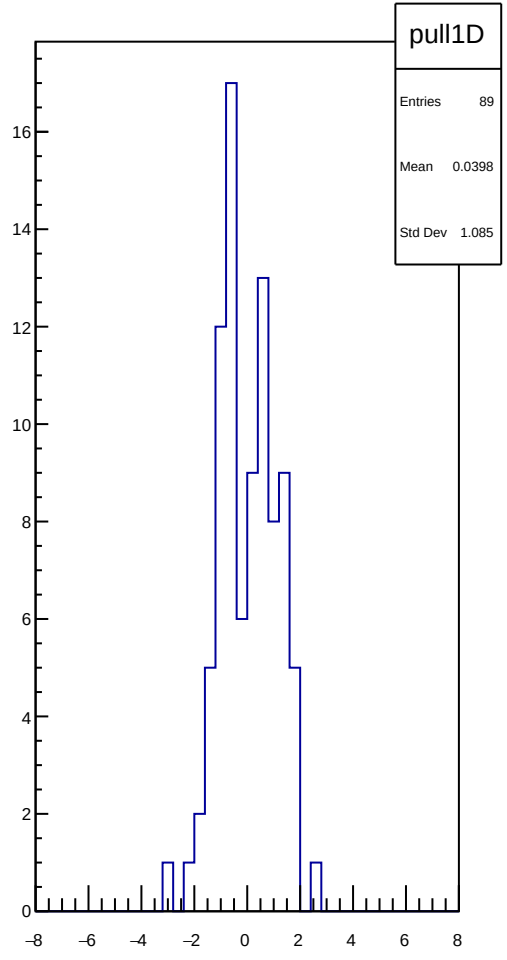

pull1D
Entries 89
Mean 0.001096
Std Dev 1.095

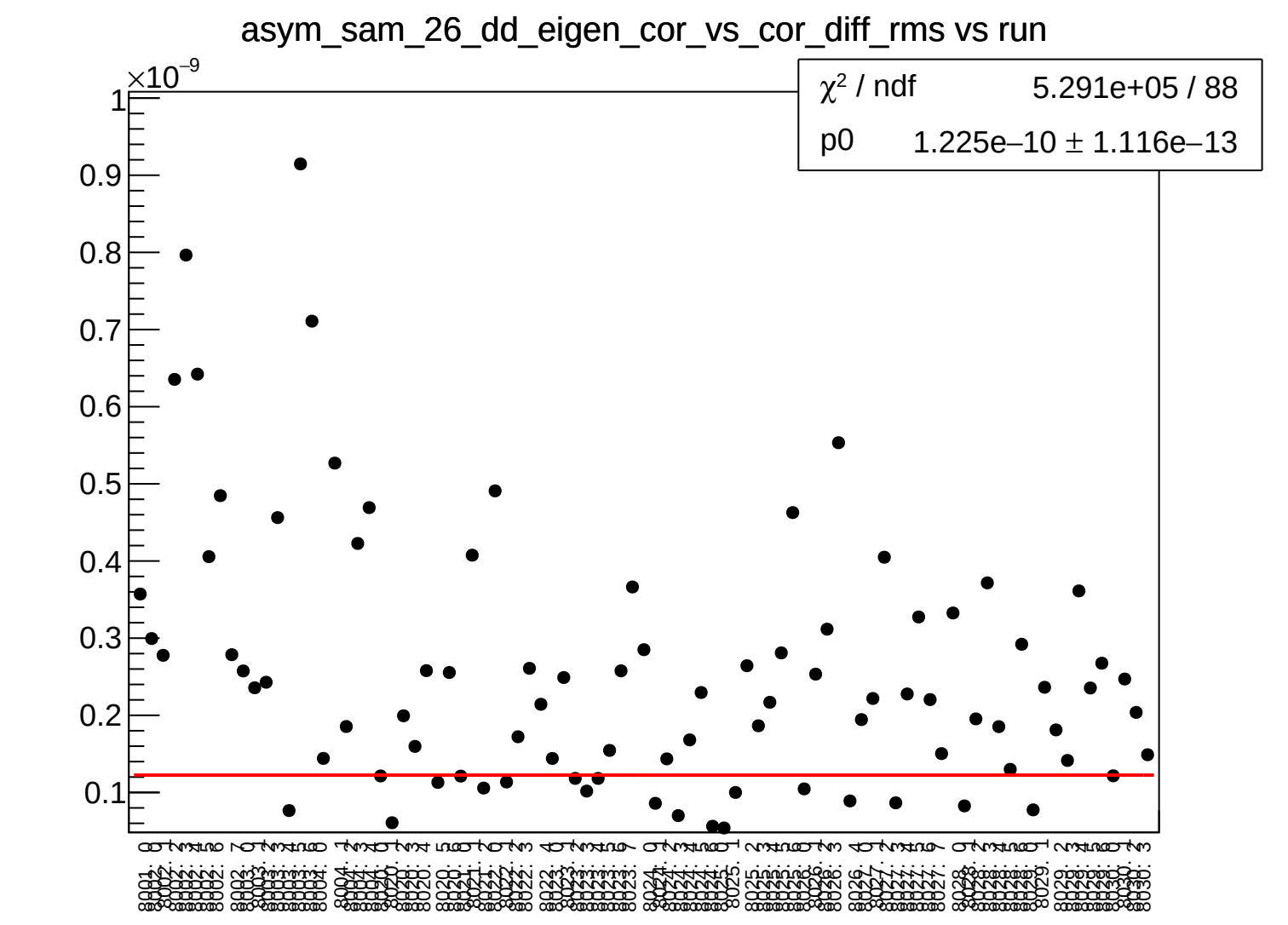

asym_sam_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.248e+04 / 88
p0 120.3 ± 0.09217
170
160
150
140
130
120
110
100
90

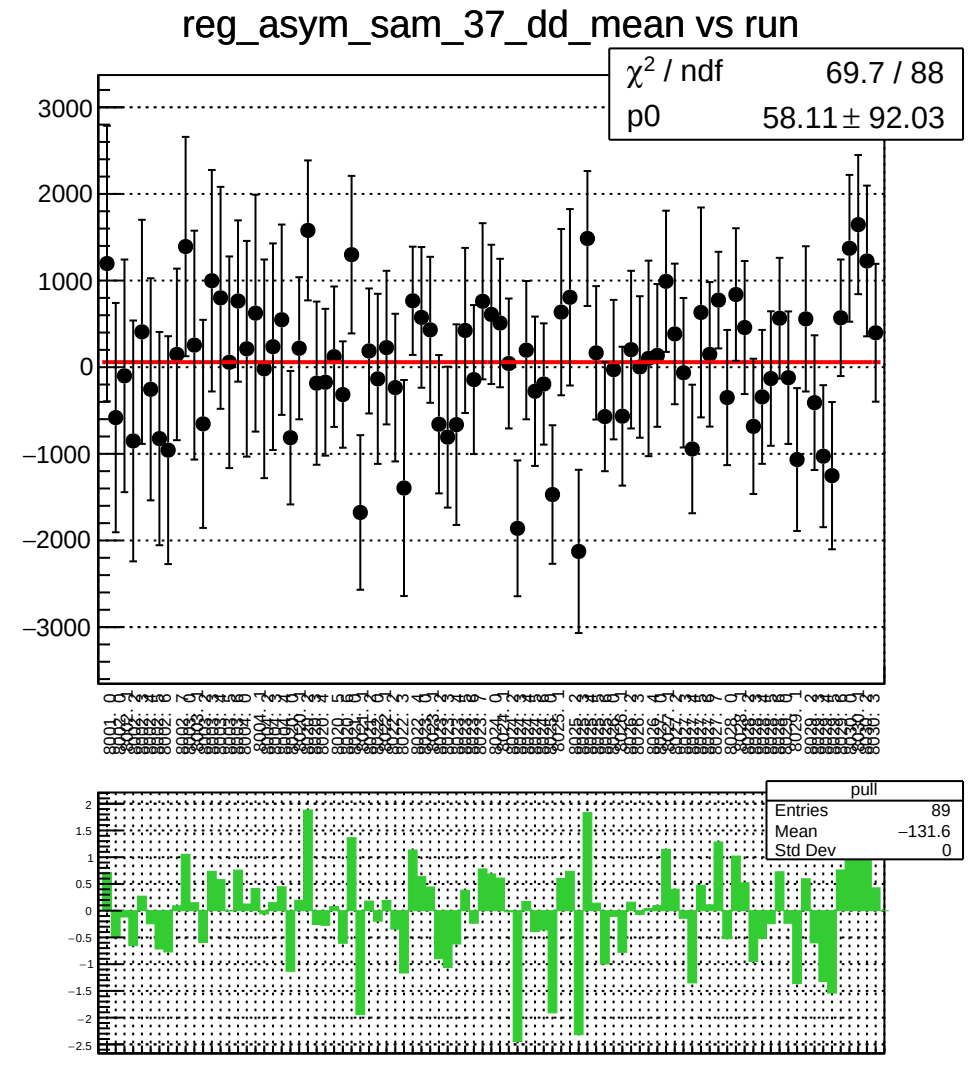

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.6 / 88
p0 −0.1101± 0.1303
pull
Entries 89
Mean −1978
Std Dev 0
pull1D
Entries 89
Mean 0.001096
Std Dev 1.095

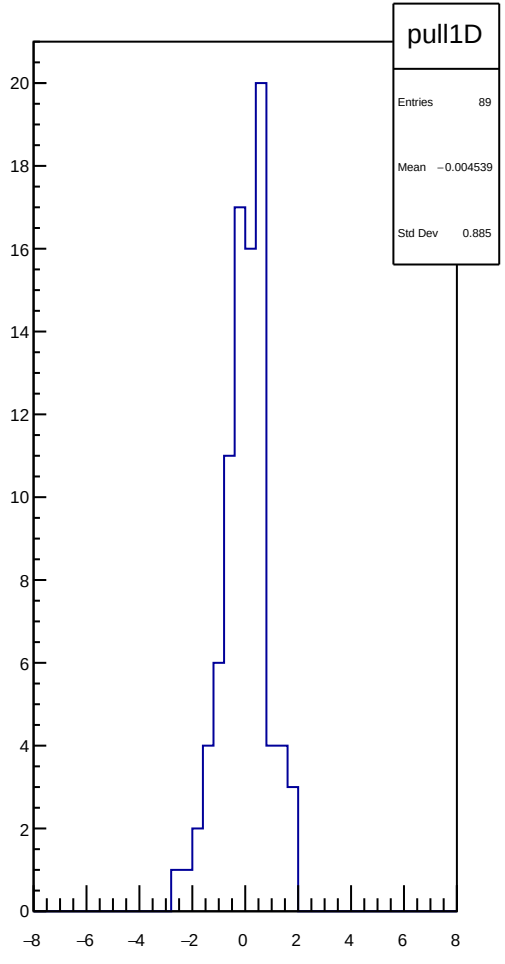

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.248e+04 / 88
p0 120.3 ± 0.09217
170
160
150
140
130
120
110
100
90

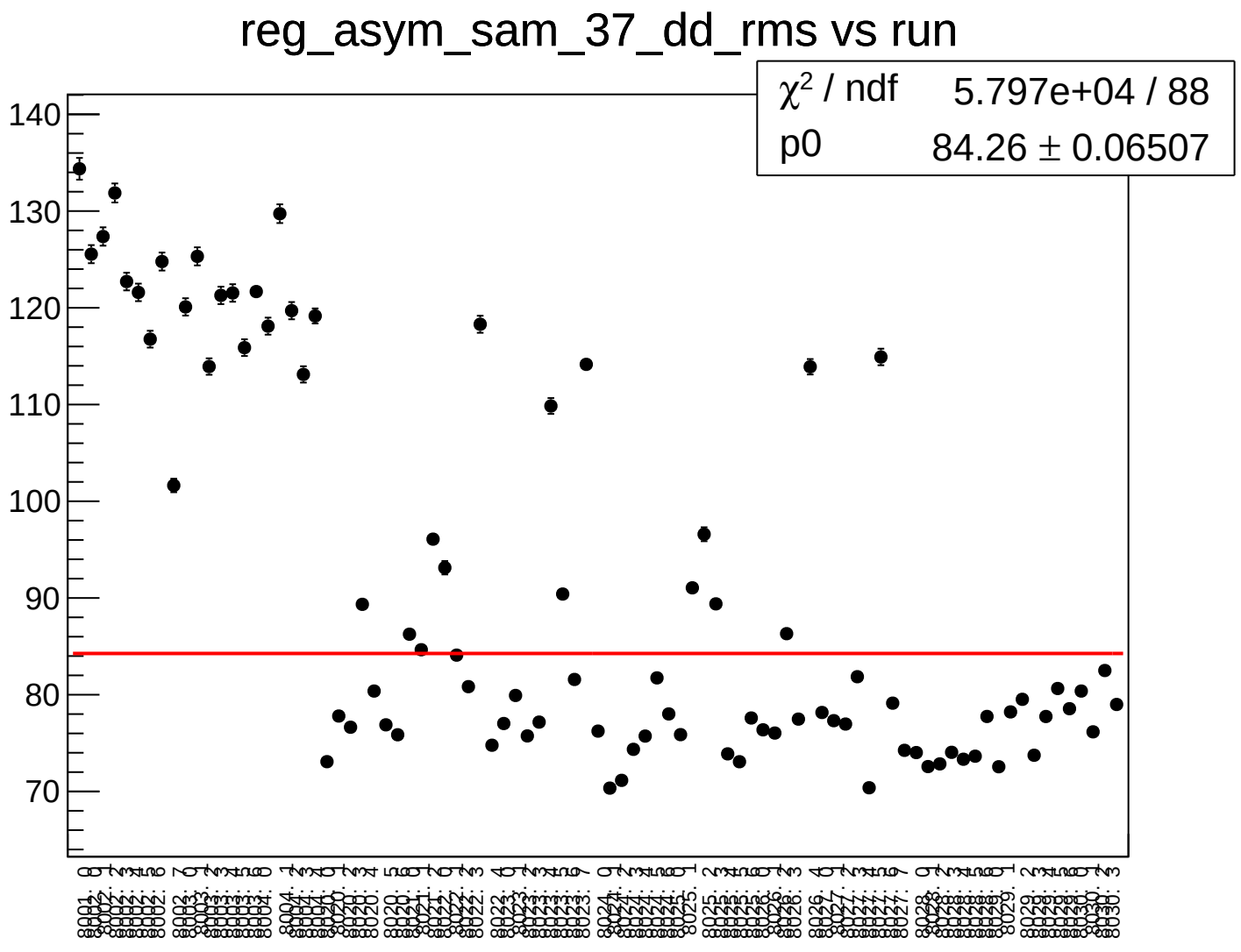

asym_sam_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 105 / 88
p0 8.69e−14 ± 1.578e−13
pull
Entries 89
Mean 36.53
Std Dev 8.373

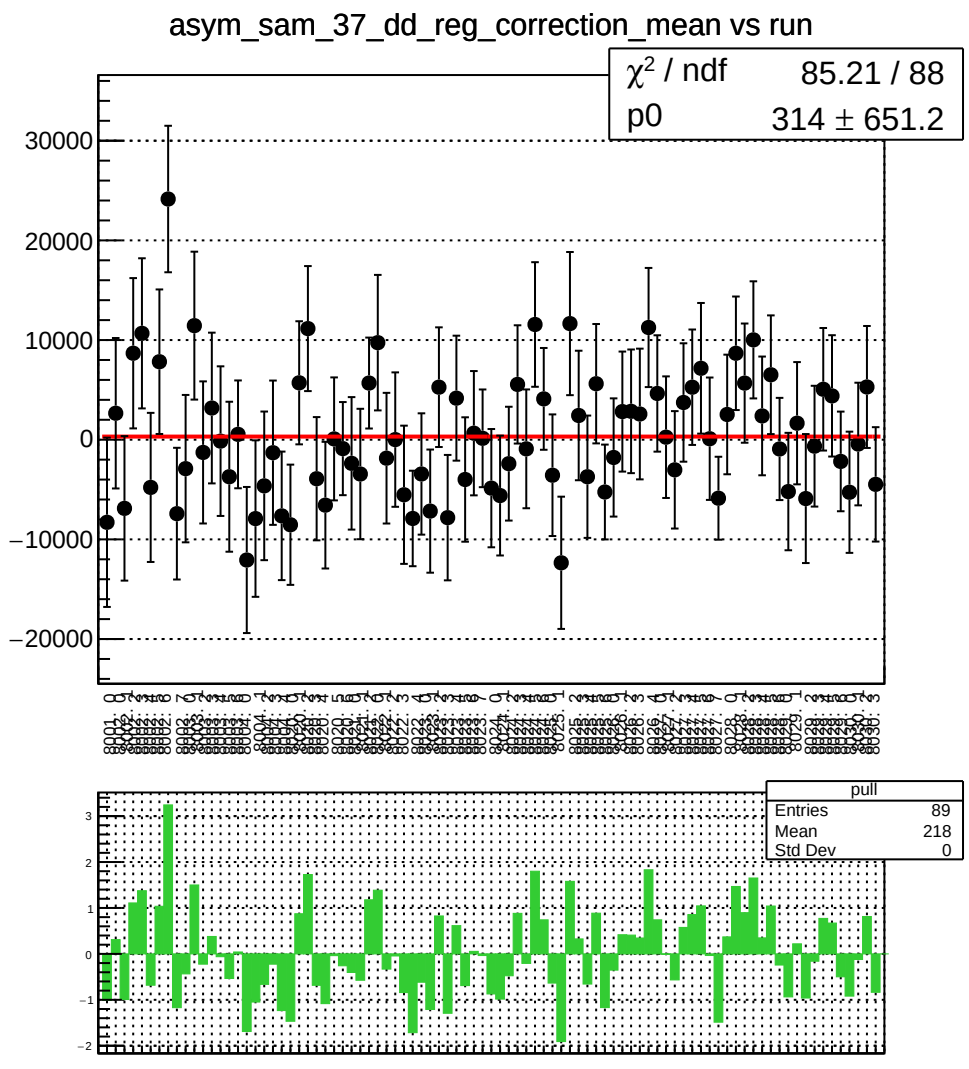

pull1D
Entries 89
Mean 0.0398
Std Dev 1.085

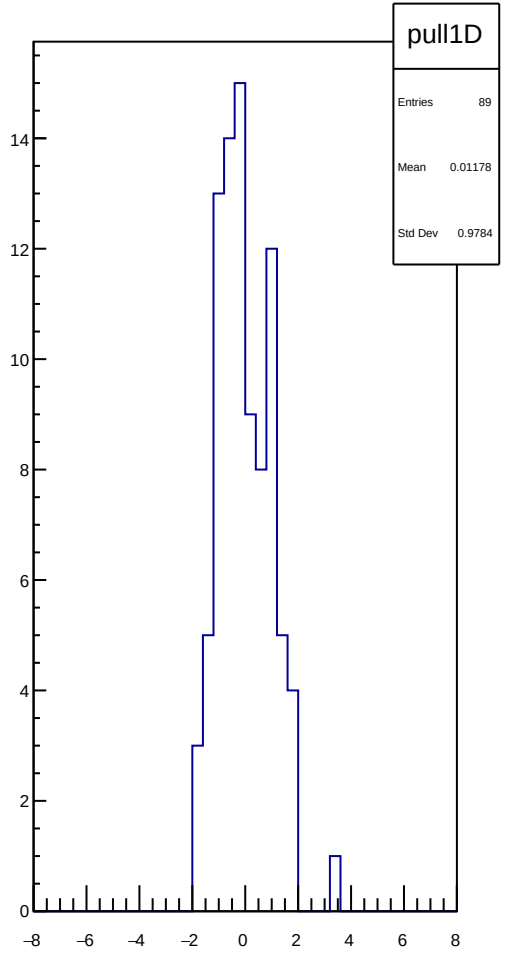

asym_sam_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.291e+05 / 88
p0 1.225e−10 ± 1.116e−13
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

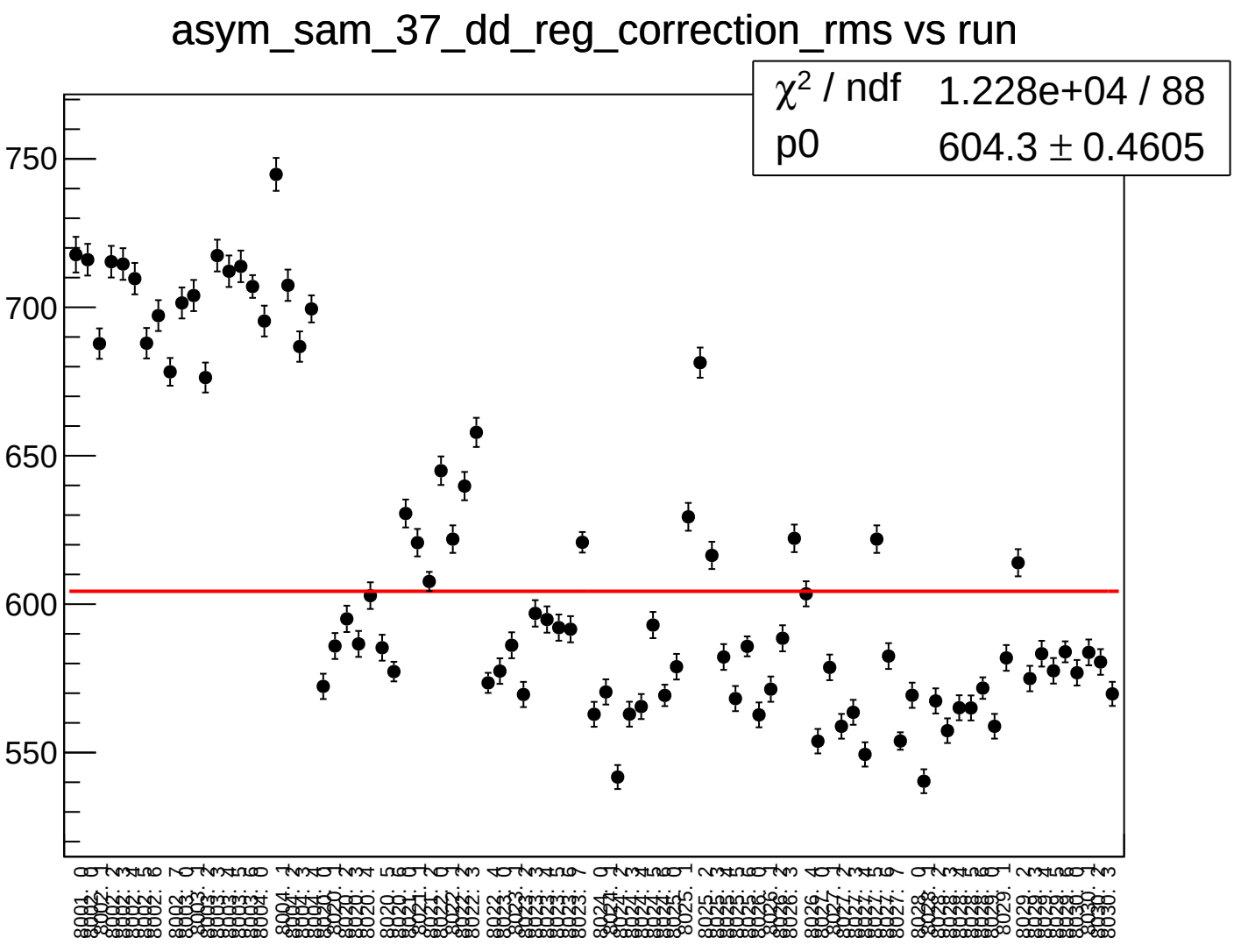

reg_asym_sam_37_dd_mean vs run
χ² / ndf 69.7 / 88
p0 58.11 ± 92.03
pull
Entries 89
Mean −131.6
Std Dev 0

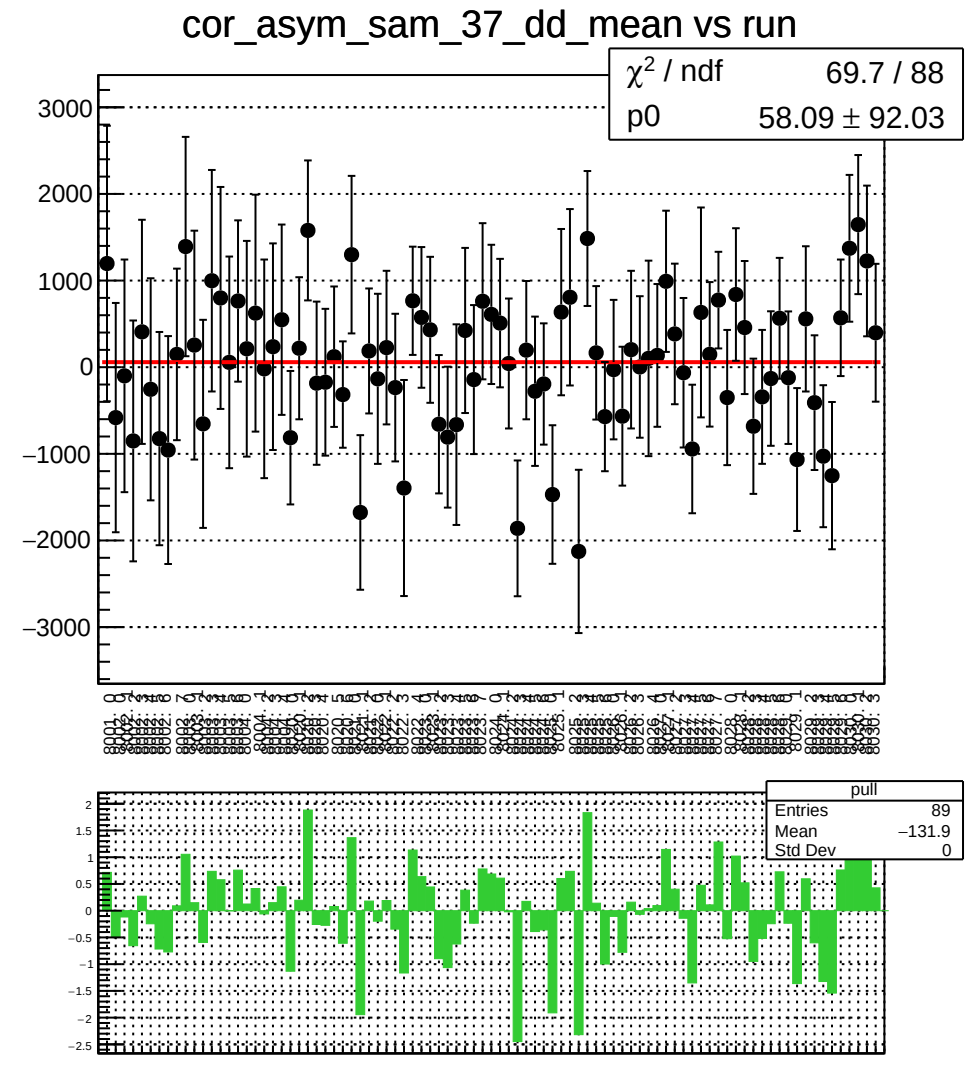

pull1D
Entries 89
Mean −0.004539
Std Dev 0.885

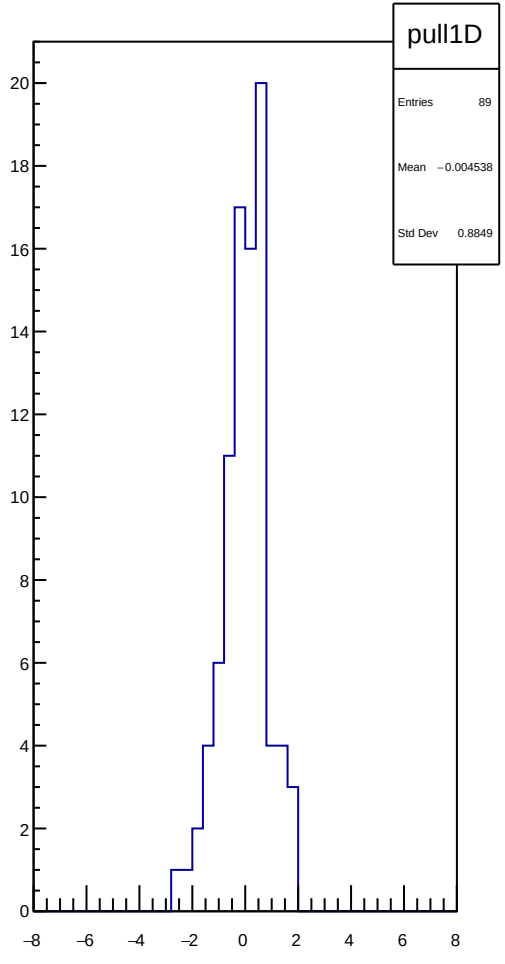

reg_asym_sam_37_dd_rms vs run
χ² / ndf 5.797e+04 / 88
p0 84.26 ± 0.06507
140
130
120
110
100
90
80
70

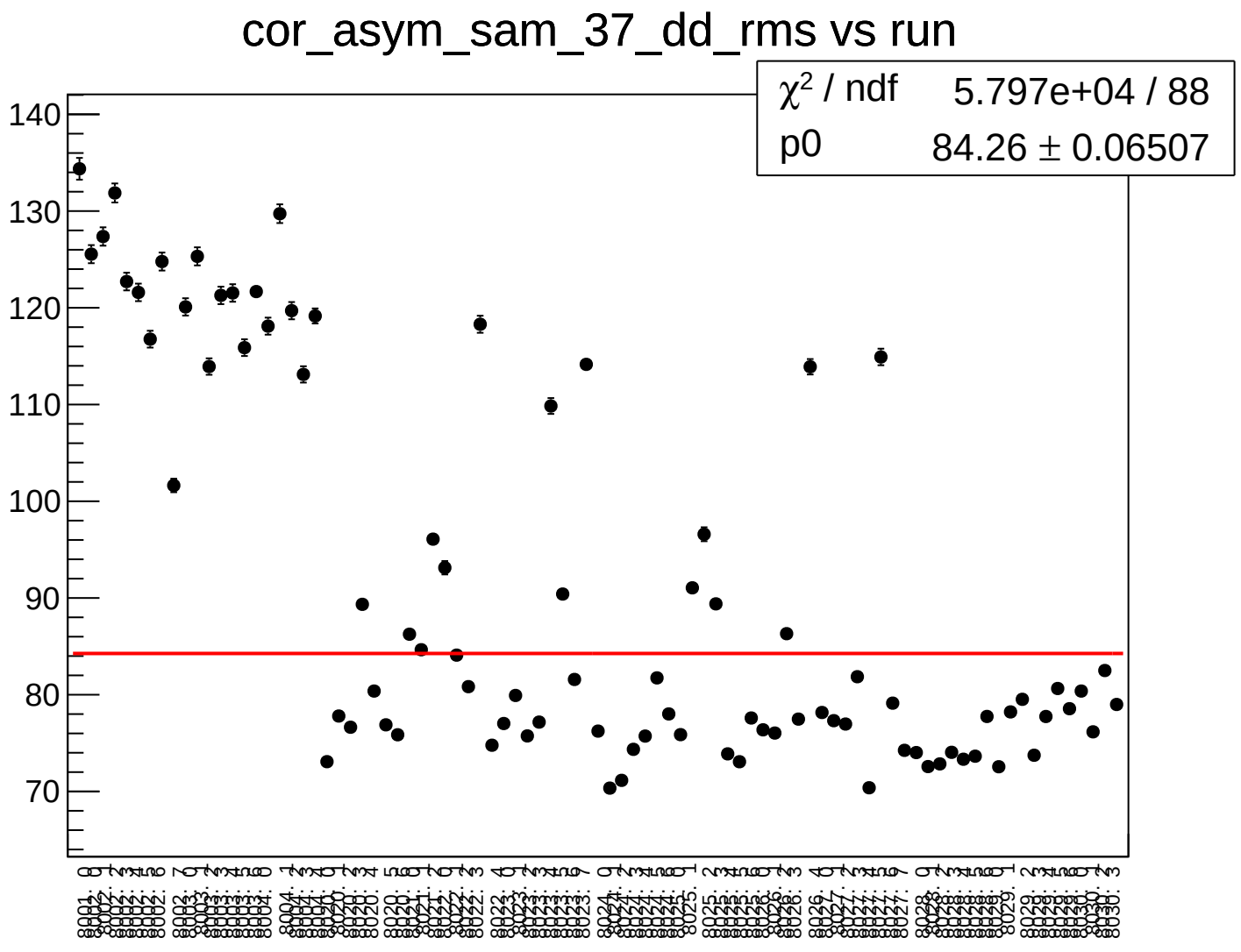

asym_sam_37_dd_reg_correction_mean vs run
χ² / ndf 85.21 / 88
p0 314 ± 651.2
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 218
Std Dev 0
3
2
1
0
−1
−2

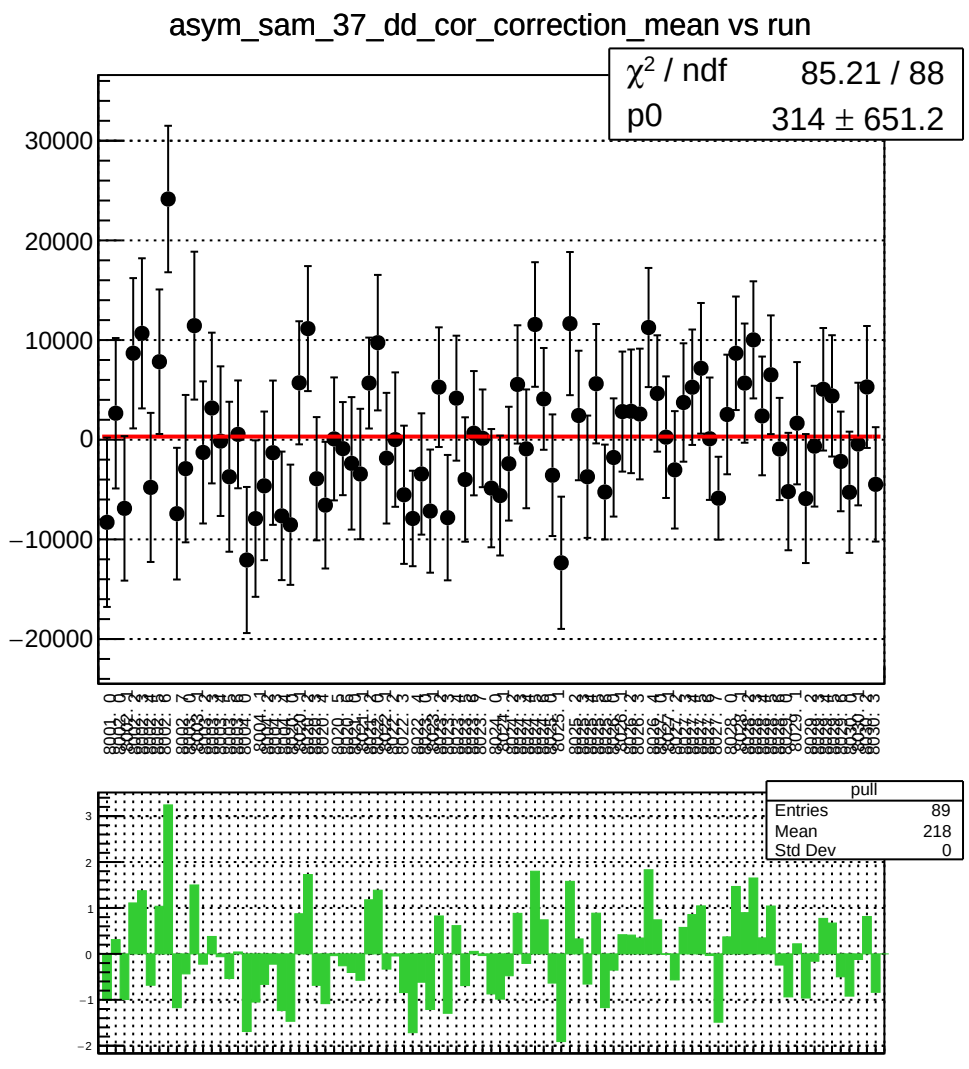

pull1D
Entries 89
Mean 0.01178
Std Dev 0.9784
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

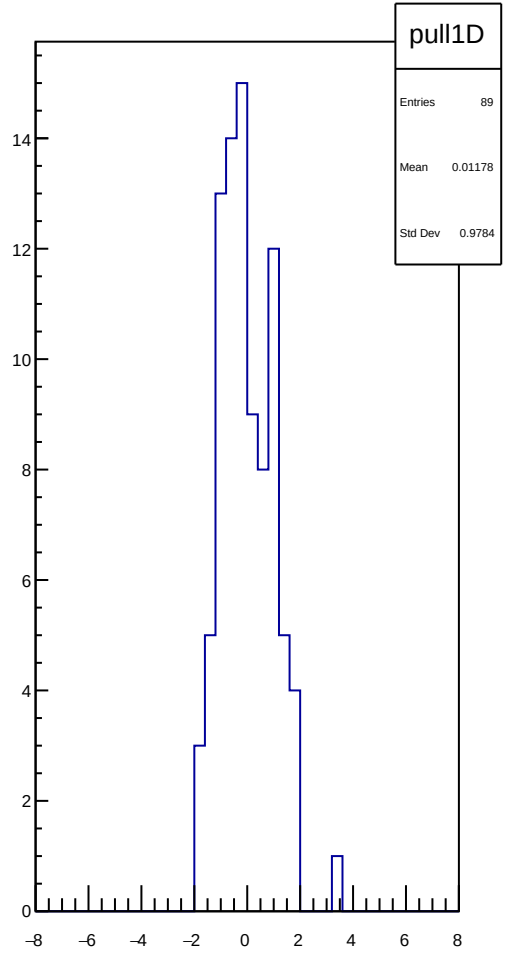

asym_sam_37_dd_reg_correction_rms vs run
χ² / ndf 1.228e+04 / 88
p0 604.3 ± 0.4605
750
700
650
600
550

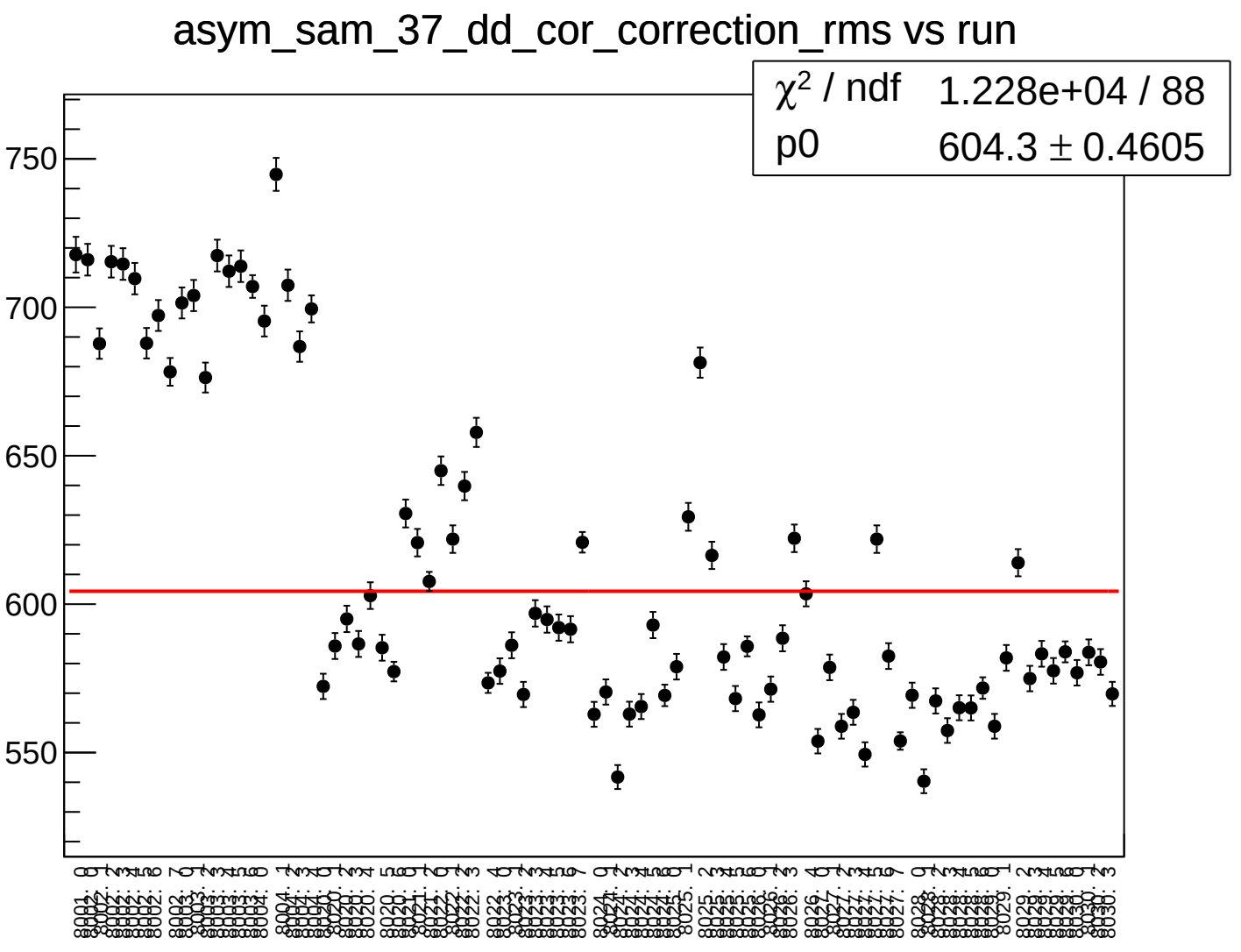

cor_asym_sam_37_dd_mean vs run
χ² / ndf 69.7 / 88
p0 58.09 ± 92.03
pull
Entries 89
Mean −131.9
Std Dev 0

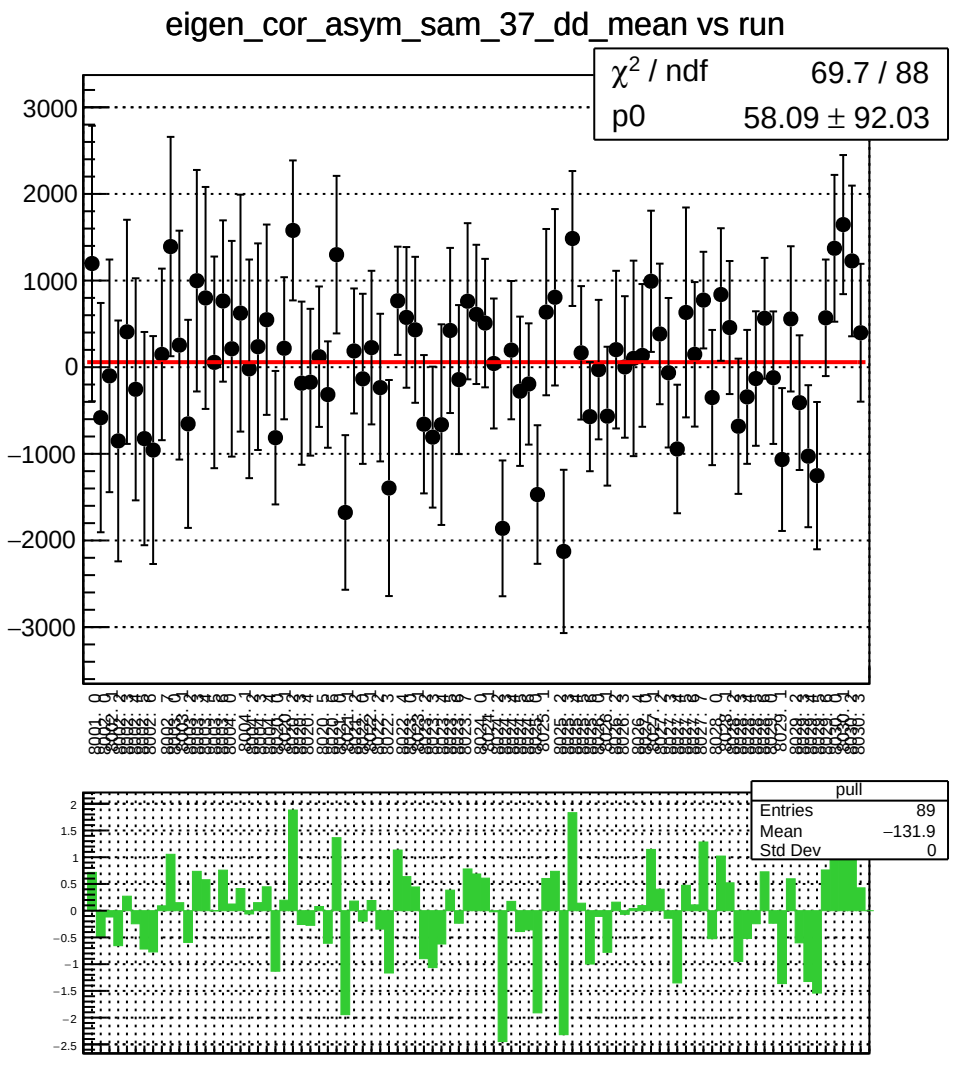

pull1D
Entries 89
Mean −0.004538
Std Dev 0.8849

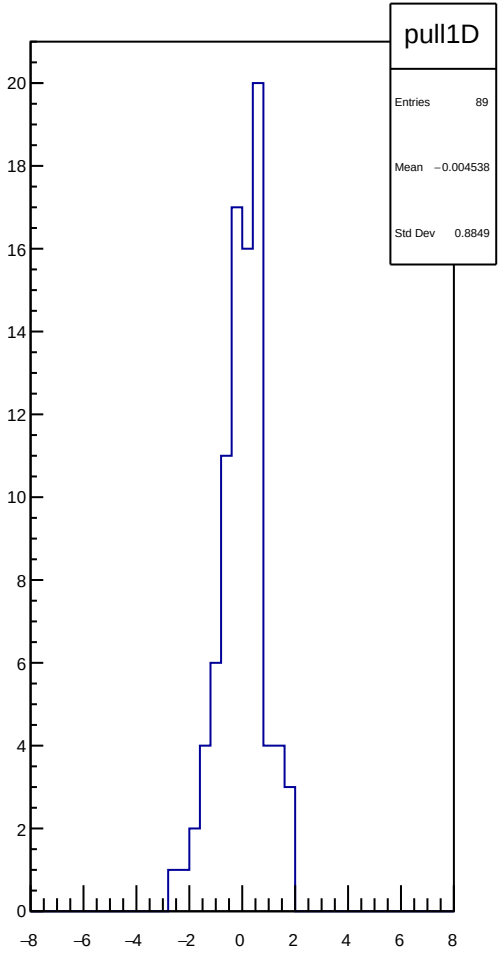

cor_asym_sam_37_dd_rms vs run
χ² / ndf 5.797e+04 / 88
p0 84.26 ± 0.06507
140
130
120
110
100
90
80
70

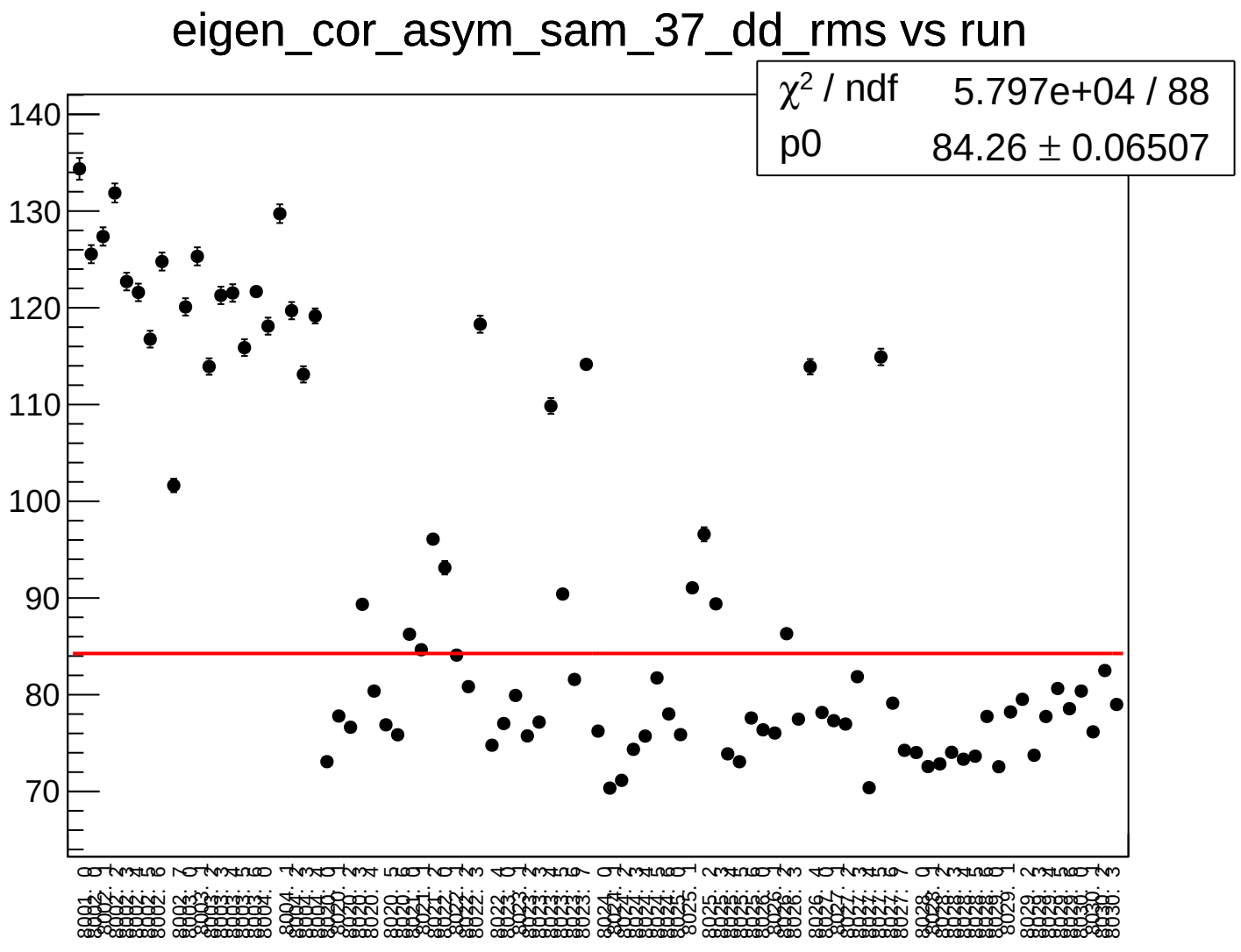

asym_sam_37_dd_cor_correction_mean vs run
χ² / ndf 85.21 / 88
p0 314 ± 651.2
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 218
Std Dev 0
3
2
1
0
−1
−2

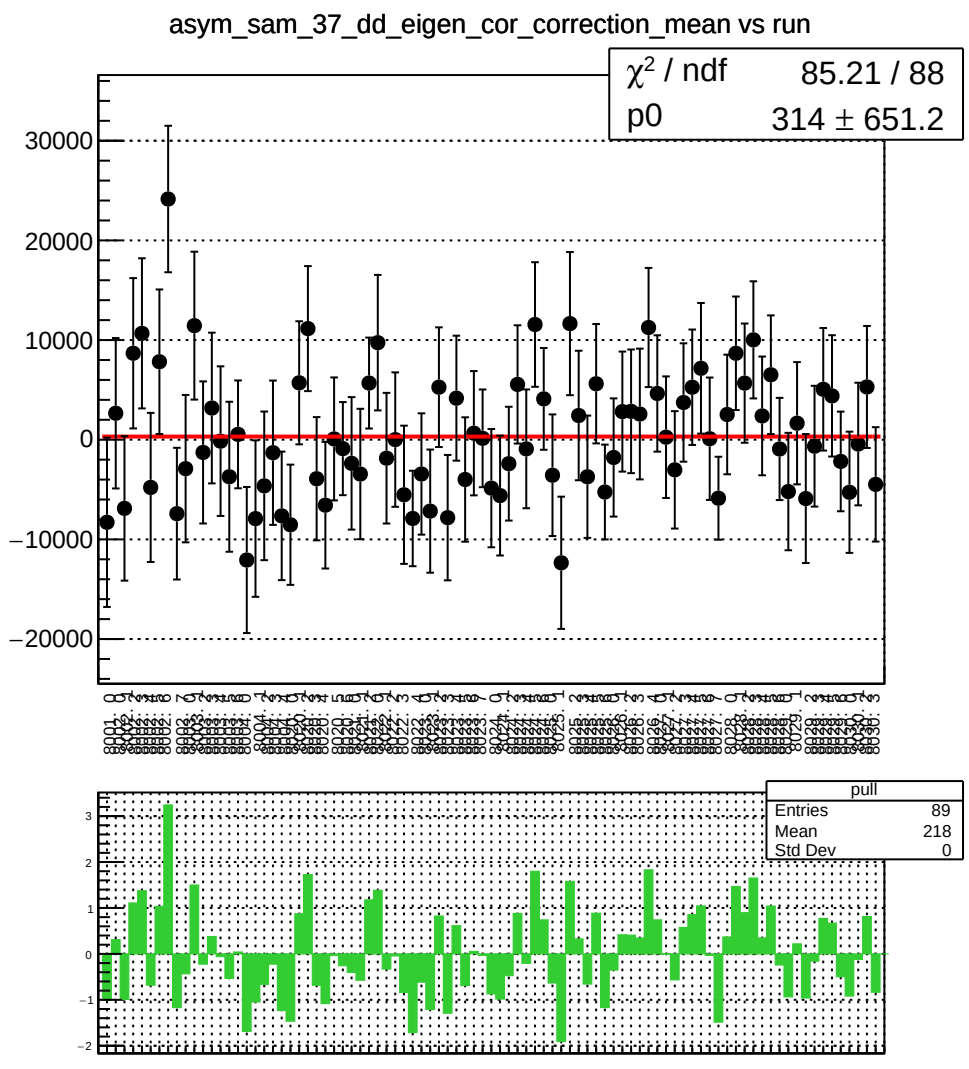

pull1D
Entries 89
Mean 0.01178
Std Dev 0.9784
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

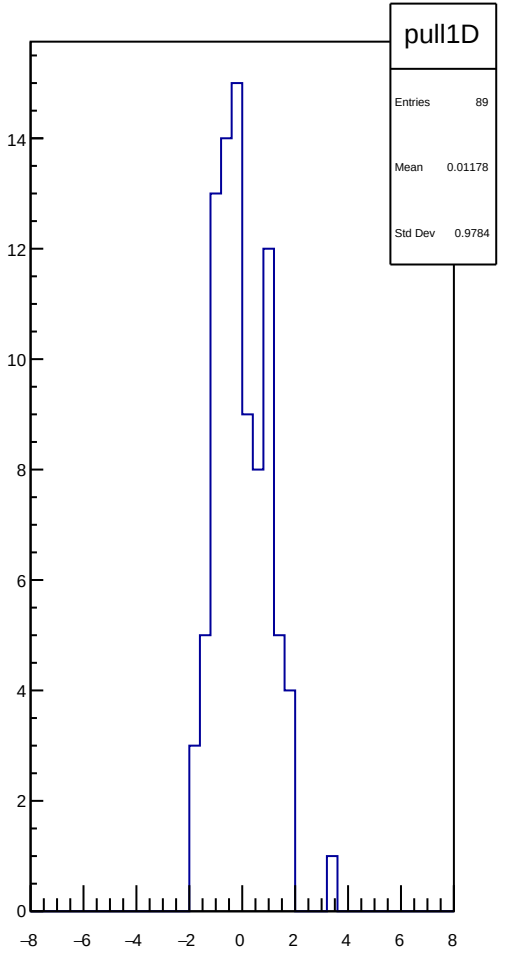

asym_sam_37_dd_cor_correction_rms vs run
χ² / ndf 1.228e+04 / 88
p0 604.3 ± 0.4605
750
700
650
600
550

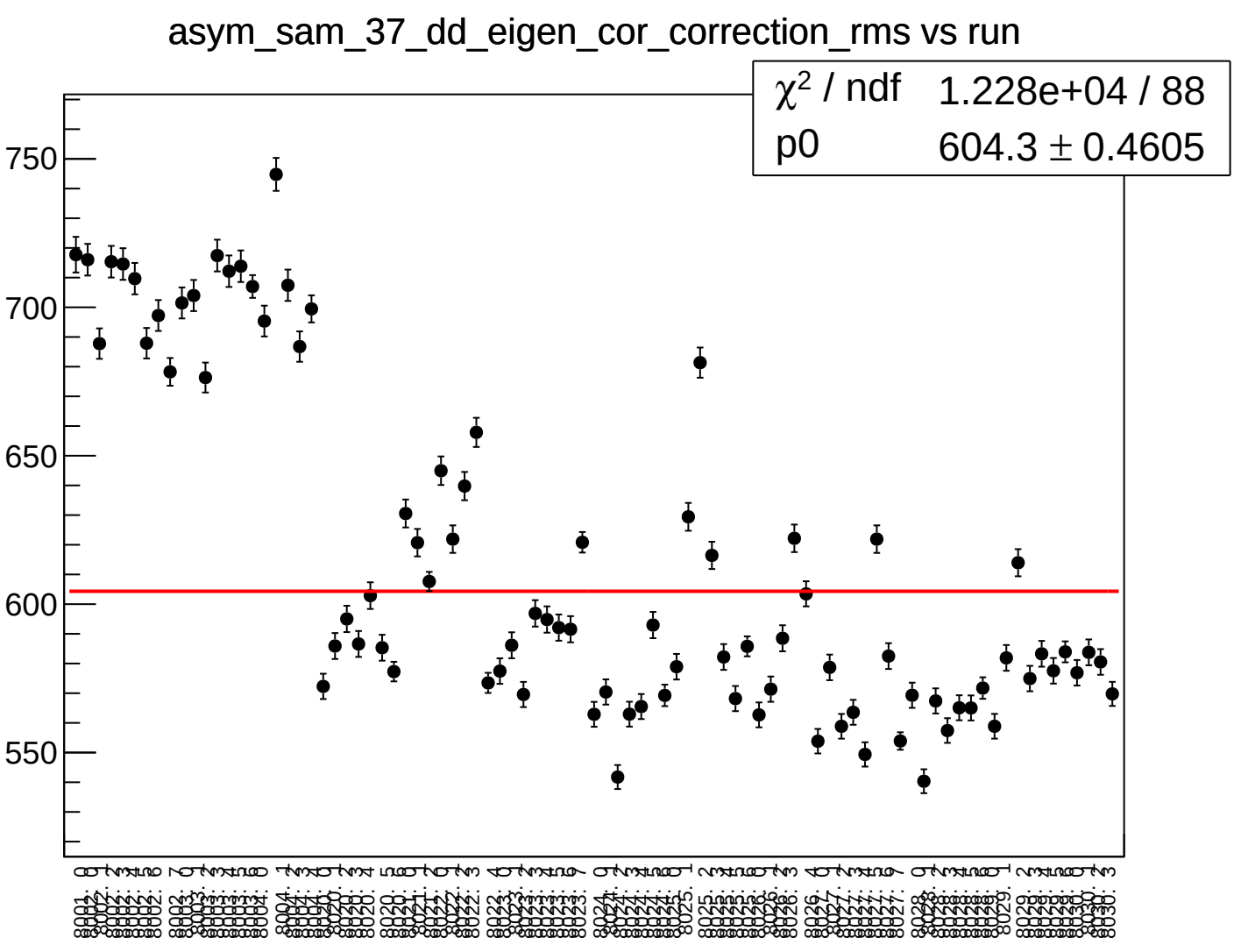

eigen_cor_asym_sam_37_dd_mean vs run
χ^2 / ndf 69.7 / 88
p0 58.09 ± 92.03
pull
Entries 89
Mean −131.9
Std Dev 0

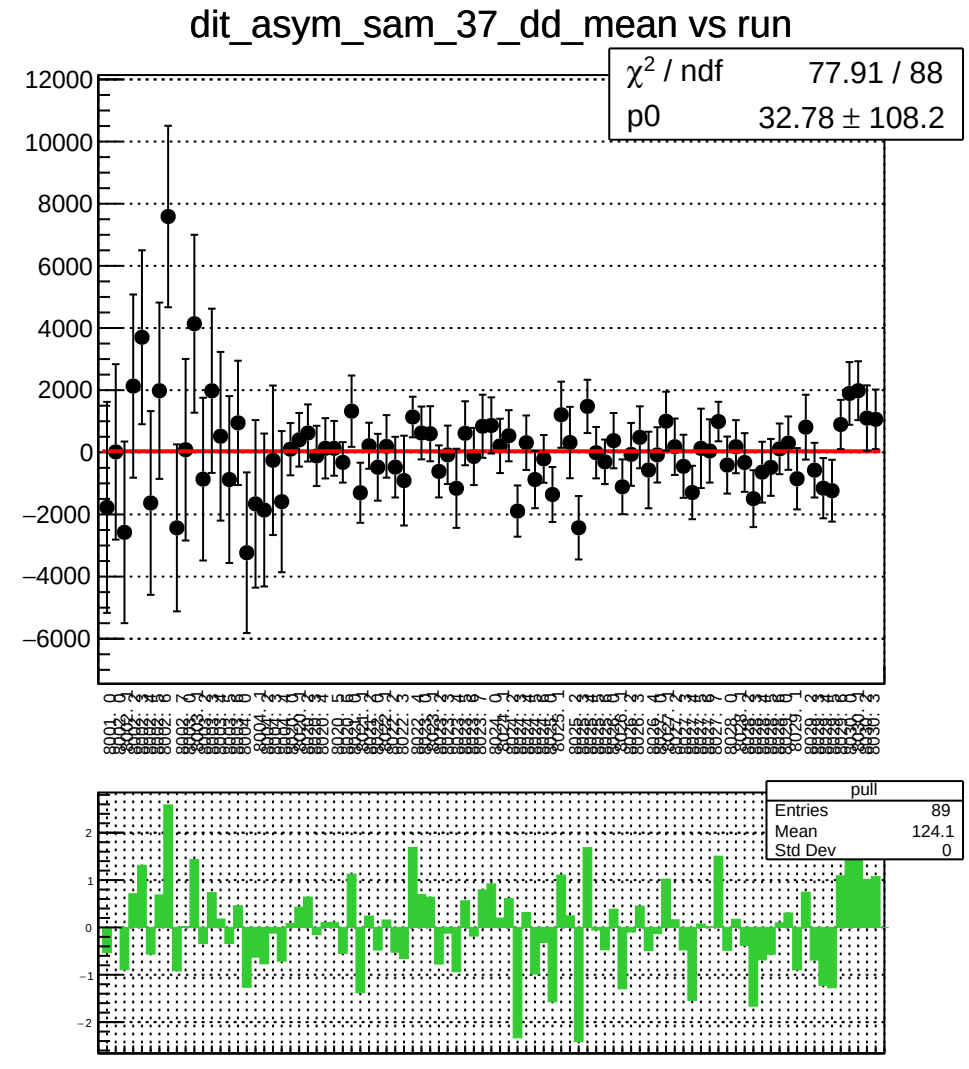

pull1D
Entries 89
Mean −0.004538
Std Dev 0.8849

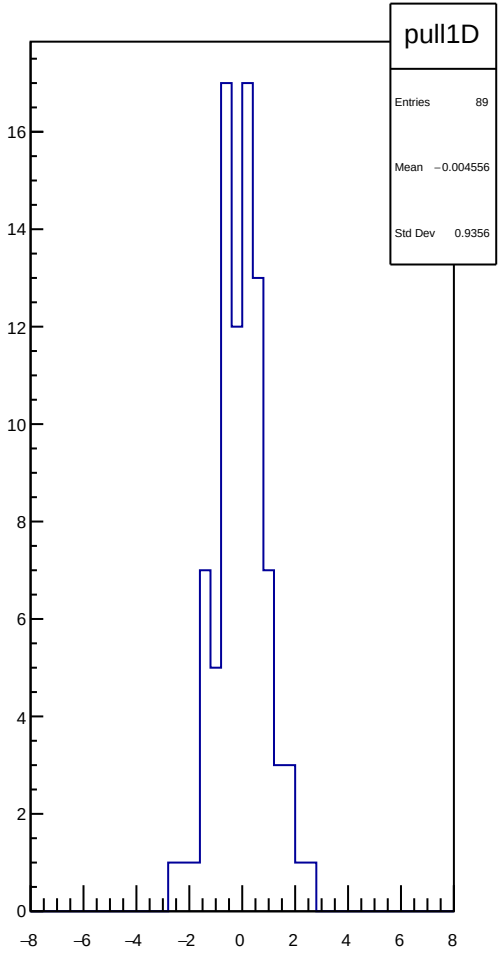

eigen_cor_asym_sam_37_dd_rms vs run
χ² / ndf 5.797e+04 / 88
p0 84.26 ± 0.06507
140
130
120
110
100
90
80
70

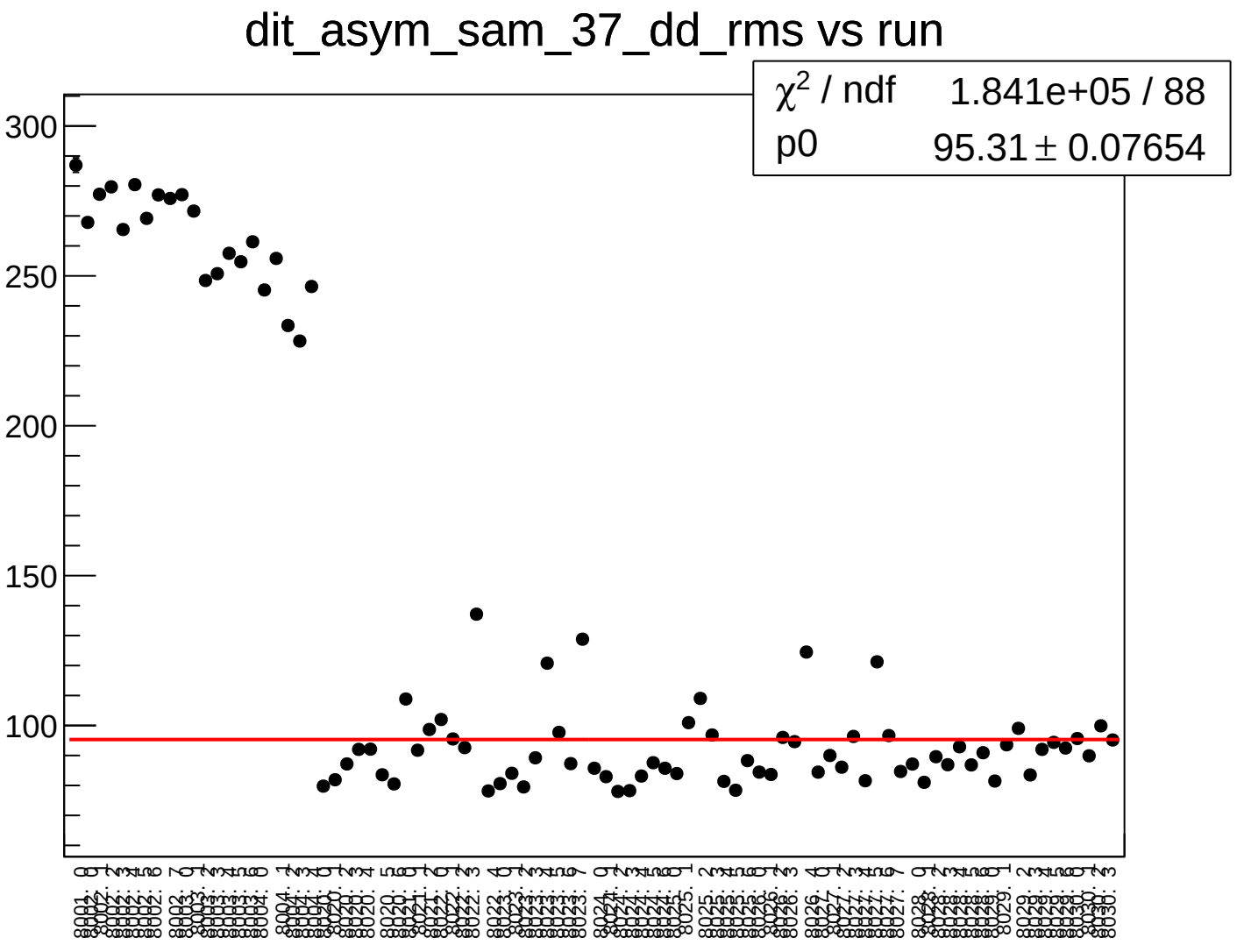

asym_sam_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 85.21 / 88
p0 314 ± 651.2
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 218
Std Dev 0
3
2
1
0
−1
−2

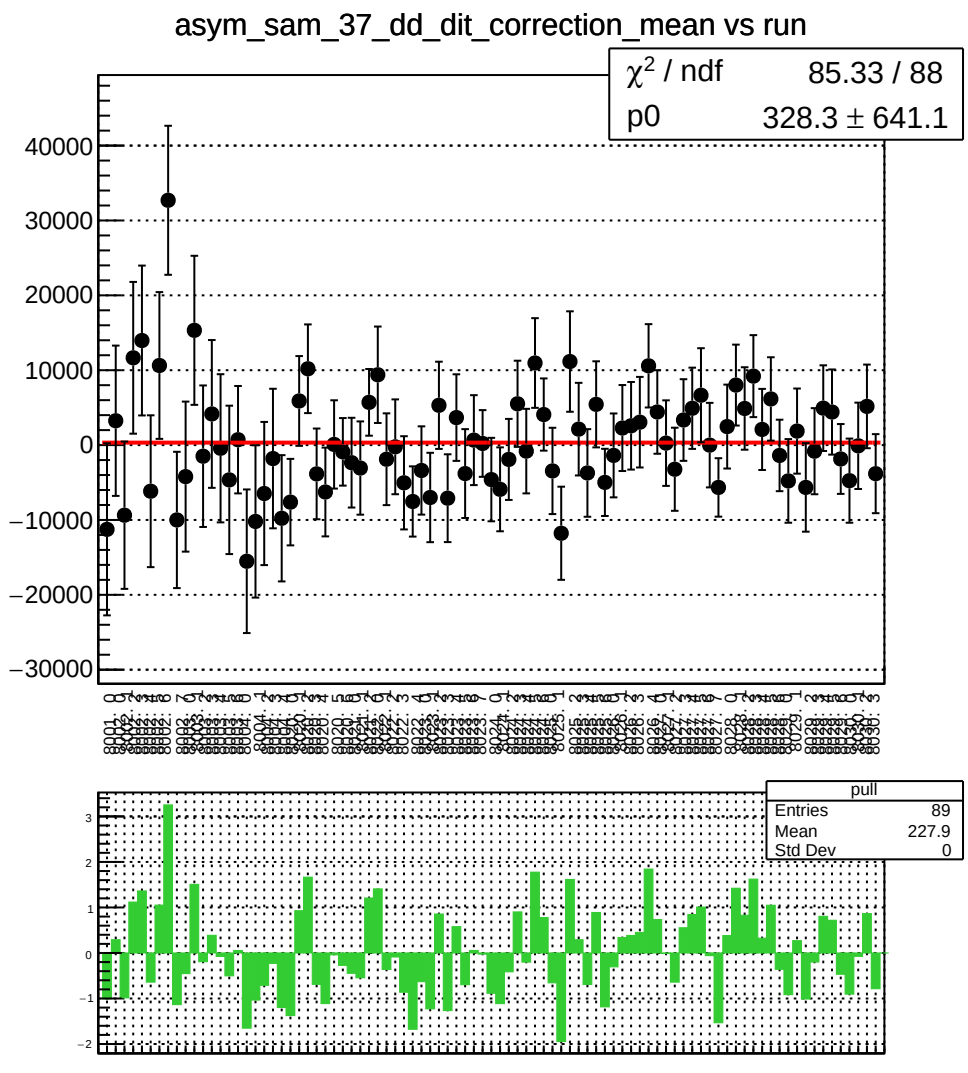

pull1D
Entries 89
Mean 0.01178
Std Dev 0.9784
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

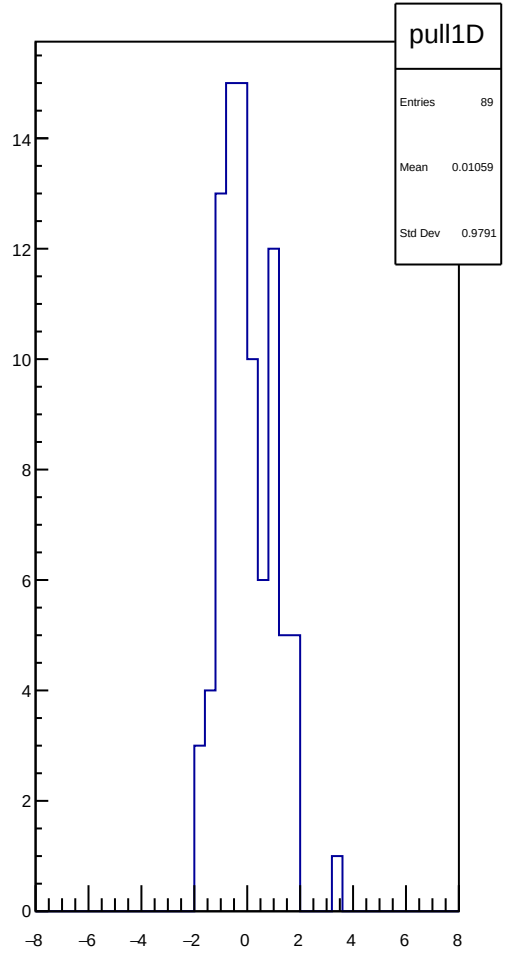

asym_sam_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.228e+04 / 88
p0 604.3 ± 0.4605
750
700
650
600
550

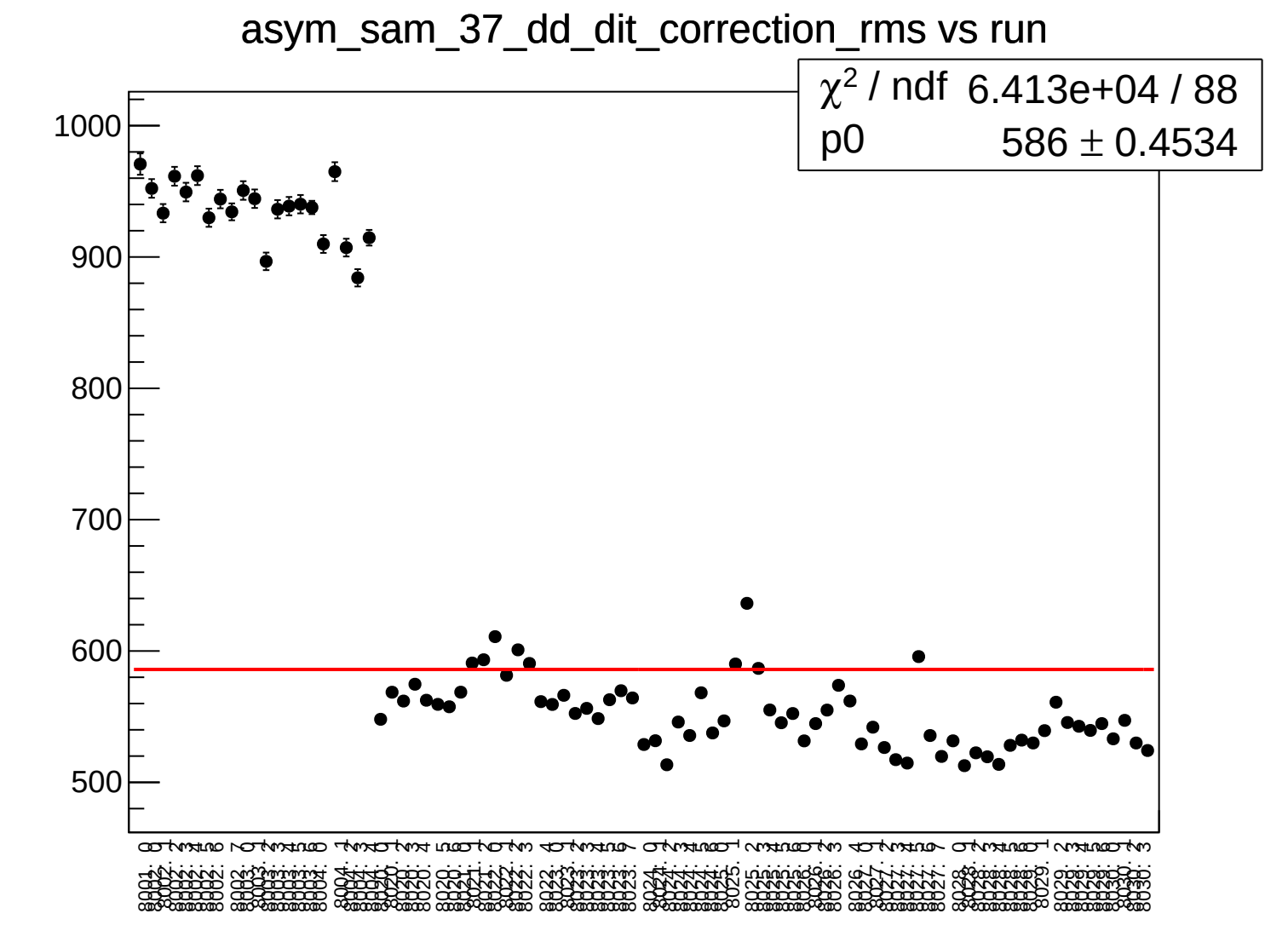

dit_asym_sam_37_dd_mean vs run
χ² / ndf 77.91 / 88
p0 32.78 ± 108.2
pull
Entries 89
Mean 124.1
Std Dev 0

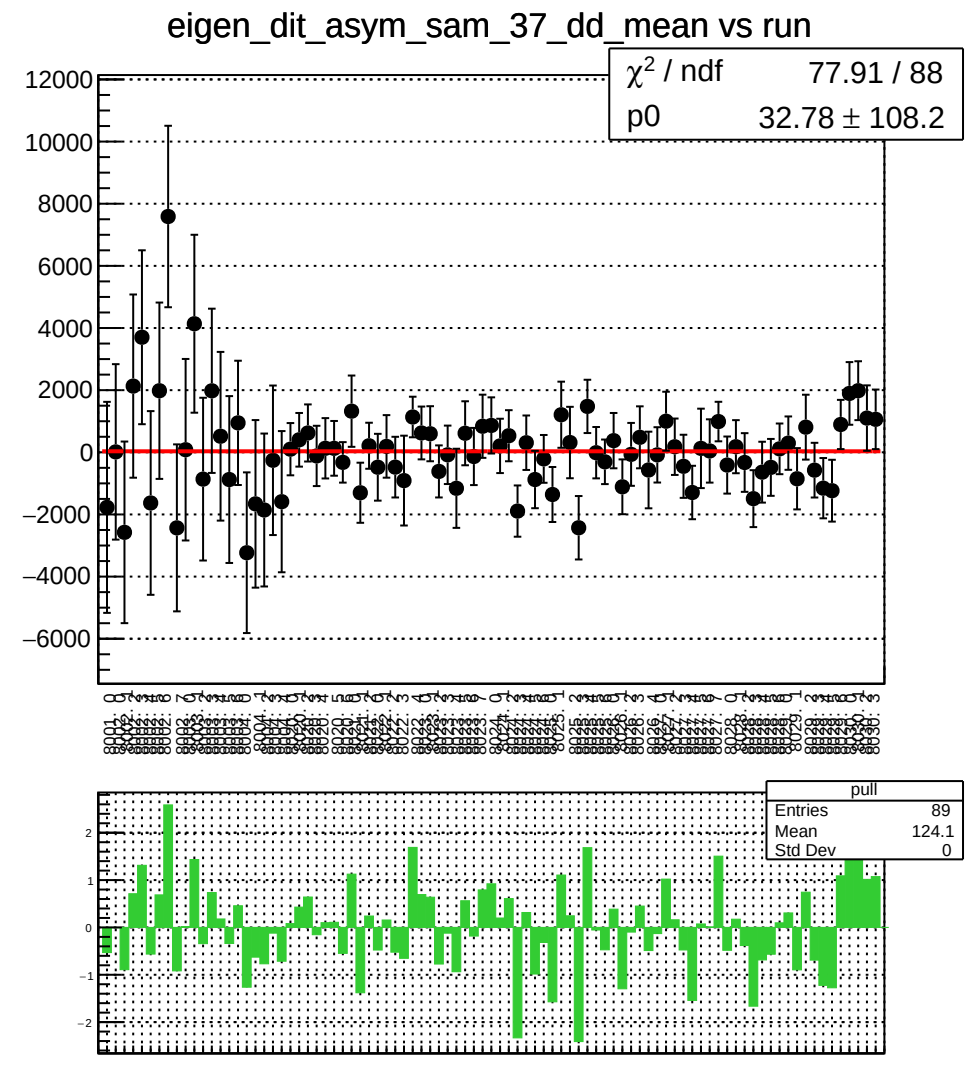

pull1D
Entries 89
Mean −0.004556
Std Dev 0.9356

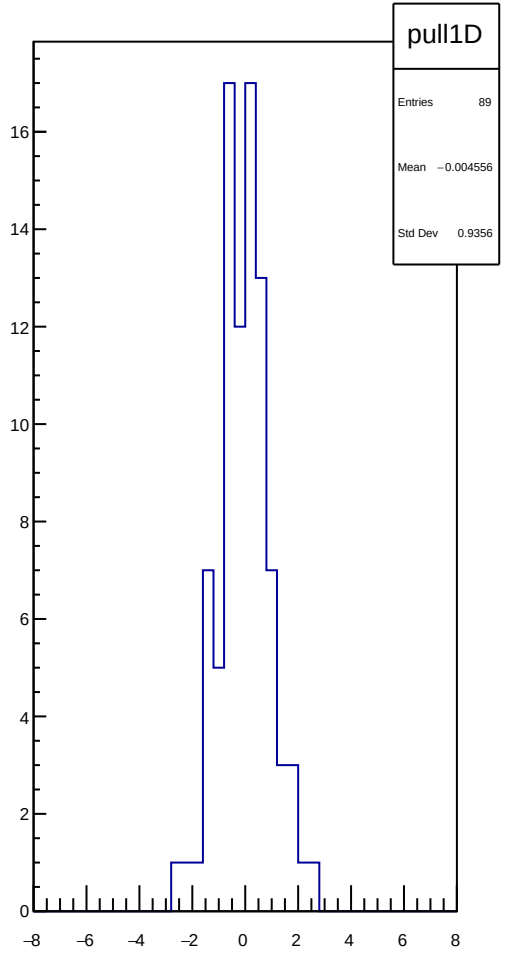

dit_asym_sam_37_dd_rms vs run
χ² / ndf 1.841e+05 / 88
p0 95.31 ± 0.07654
300
250
200
150
100

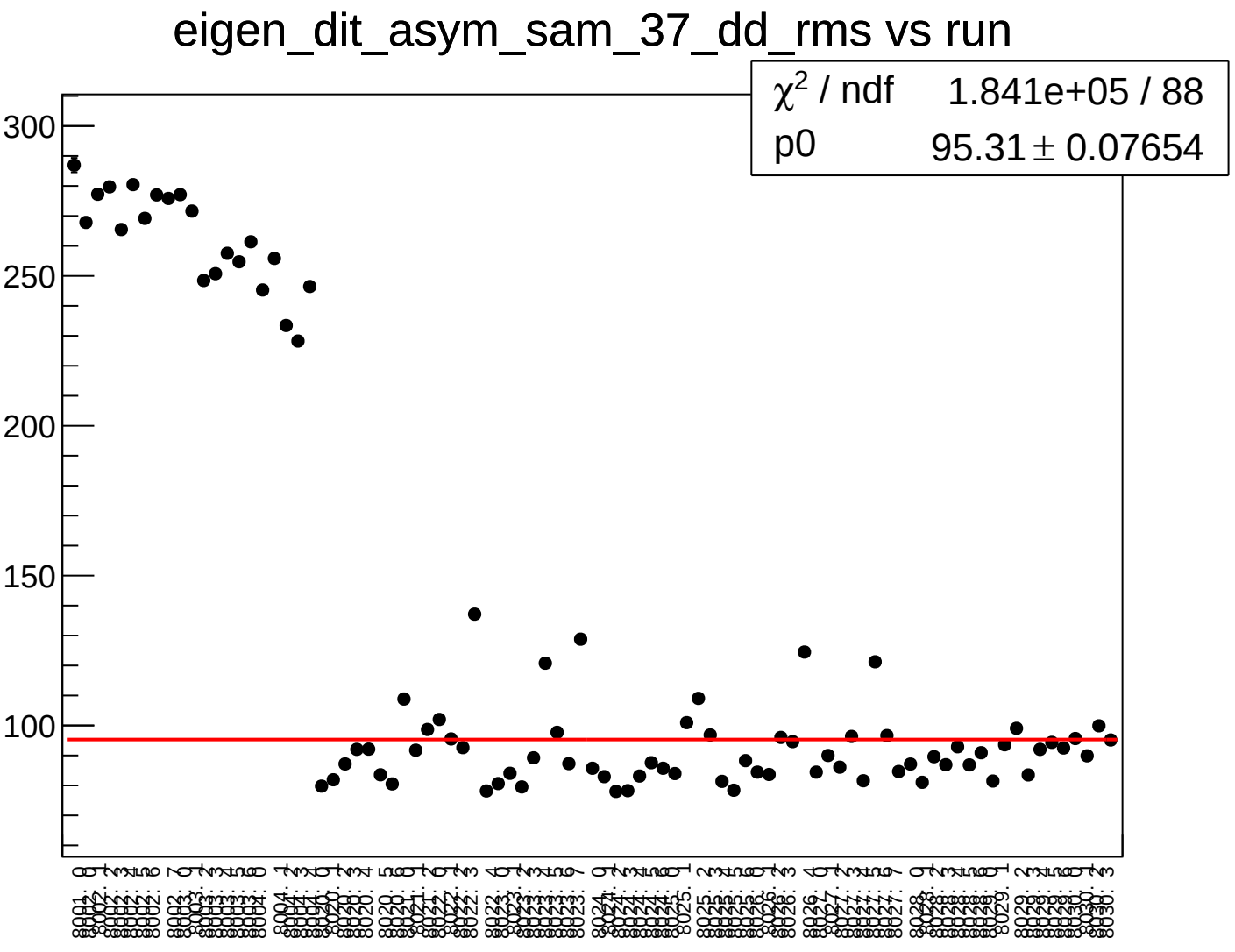

asym_sam_37_dd_dit_correction_mean vs run
χ² / ndf 85.33 / 88
p0 328.3 ± 641.1
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 227.9
Std Dev 0
3
2
1
0
−1
−2

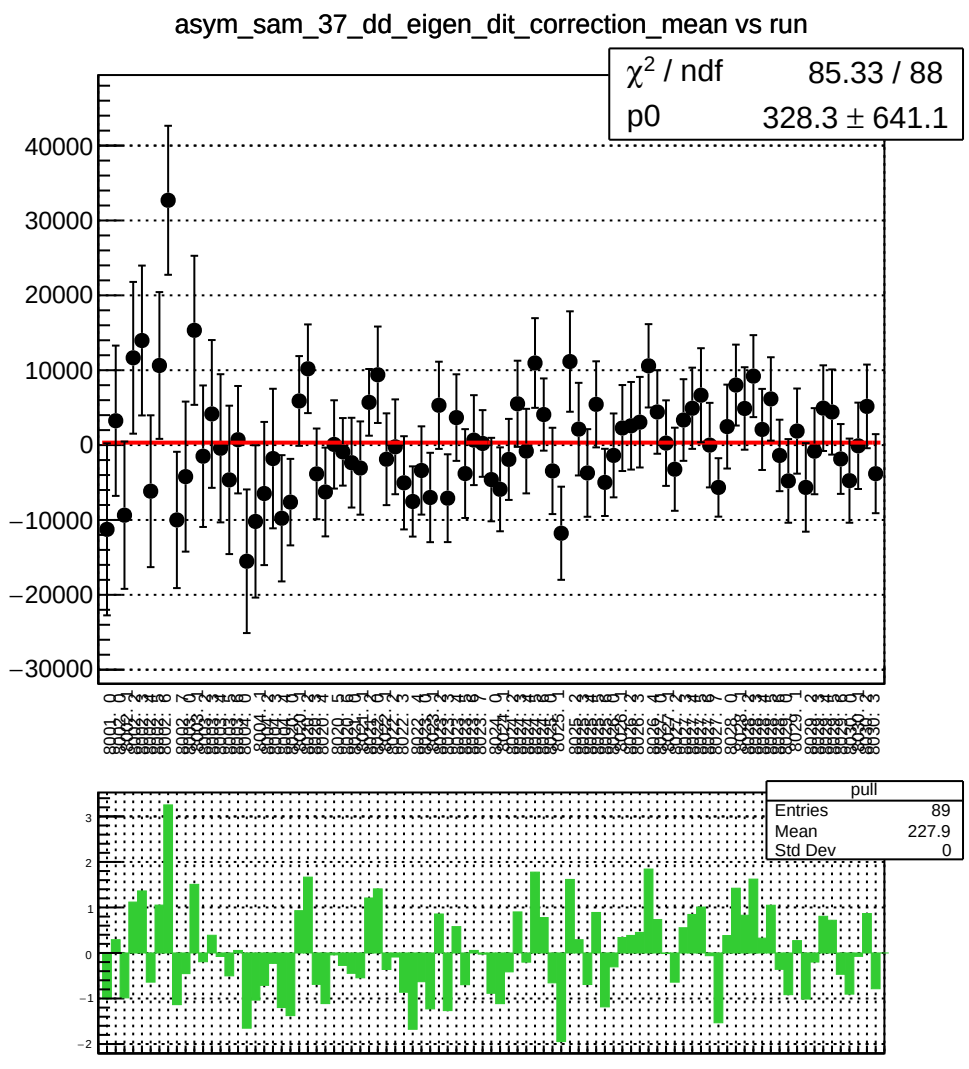

pull1D
Entries 89
Mean 0.01059
Std Dev 0.9791
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

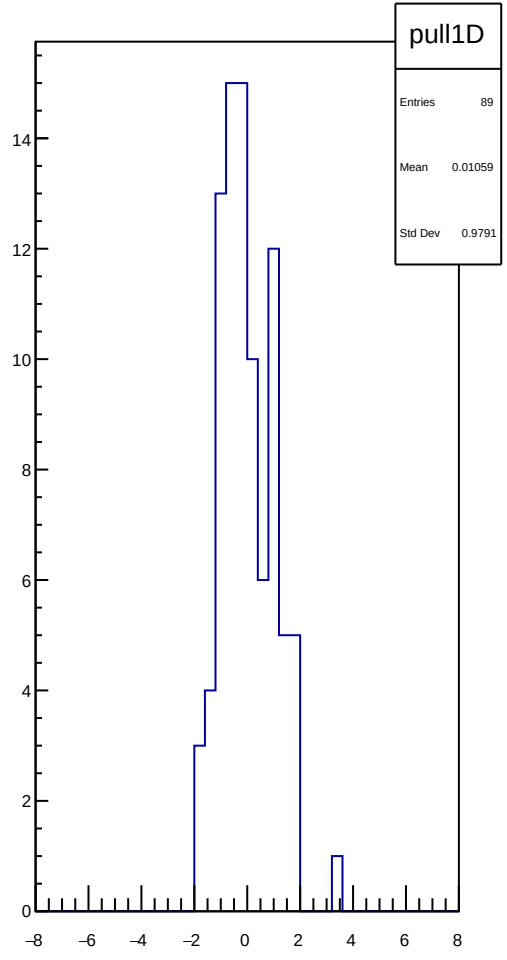

asym_sam_37_dd_dit_correction_rms vs run
χ² / ndf 6.413e+04 / 88
p0 586 ± 0.4534
1000
900
800
700
600
500

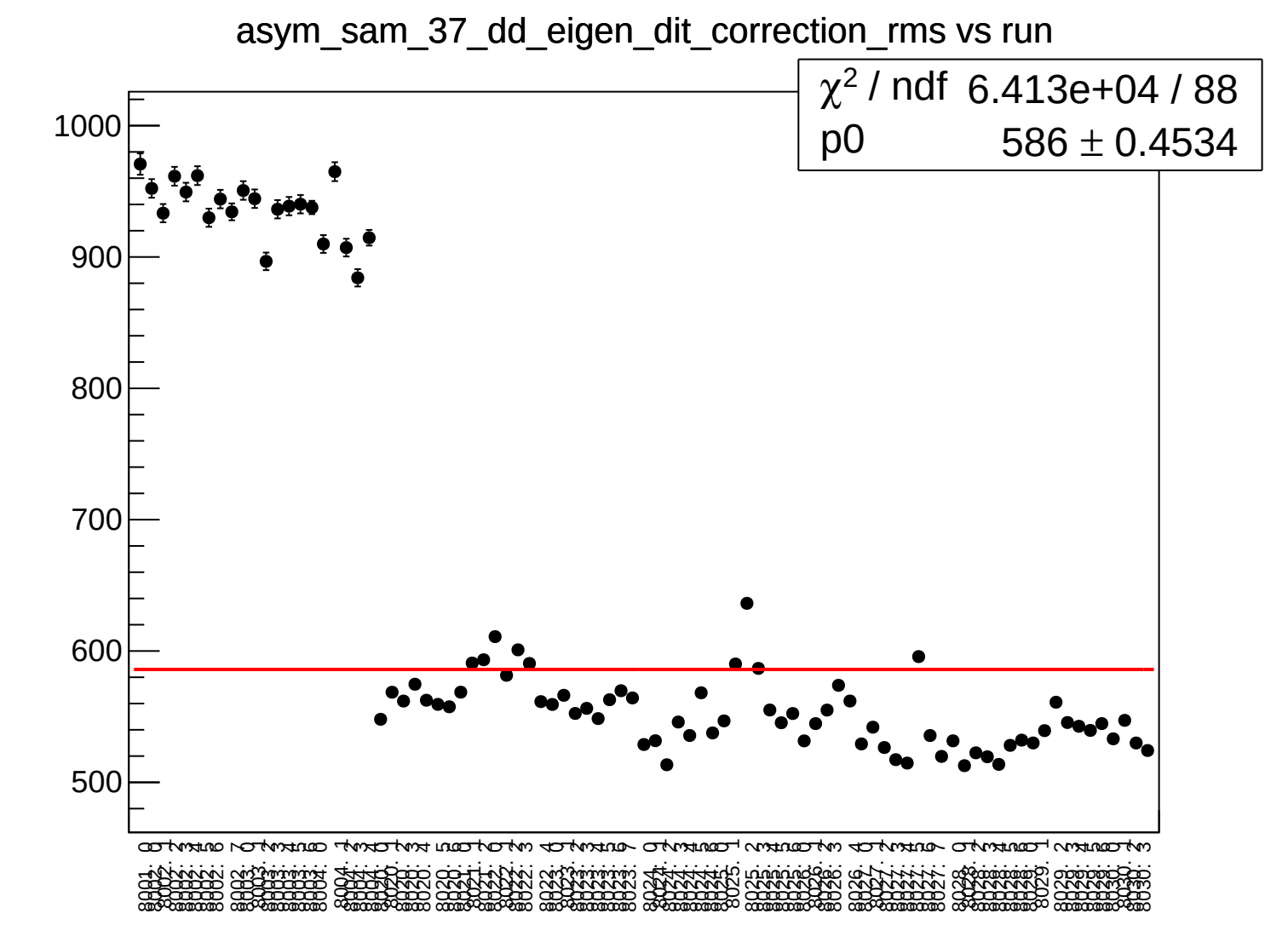

eigen_dit_asym_sam_37_dd_mean vs run
χ² / ndf 77.91 / 88
p0 32.78 ± 108.2
pull
Entries 89
Mean 124.1
Std Dev 0

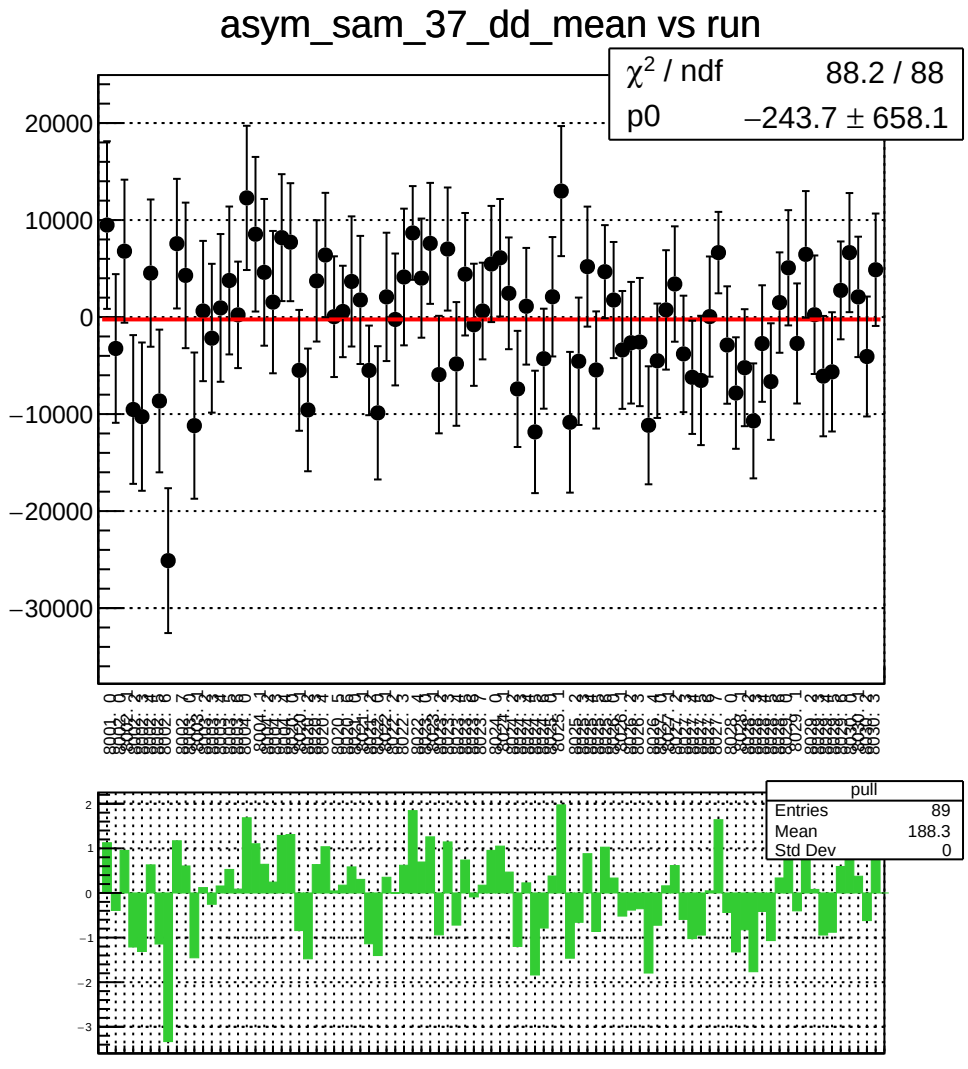

pull1D
Entries 89
Mean −0.004556
Std Dev 0.9356

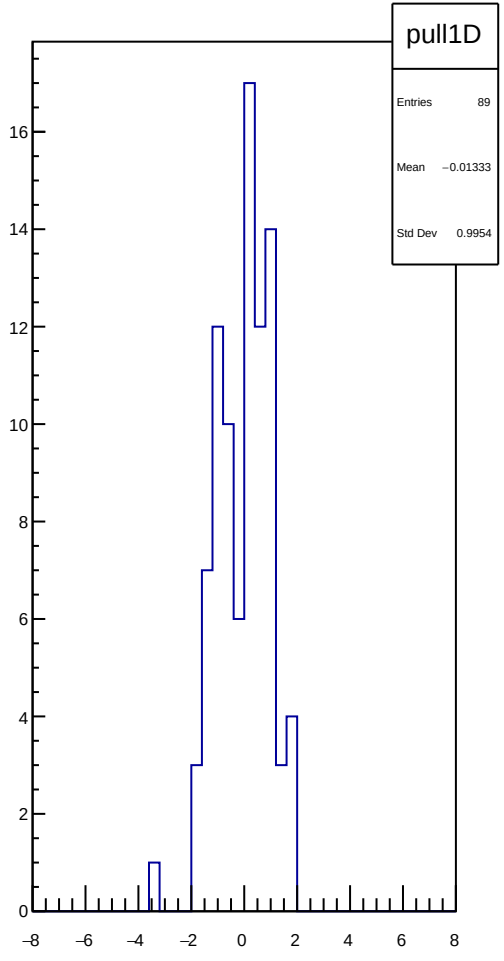

eigen_dit_asym_sam_37_dd_rms vs run
χ² / ndf 1.841e+05 / 88
p0 95.31 ± 0.07654
300
250
200
150
100

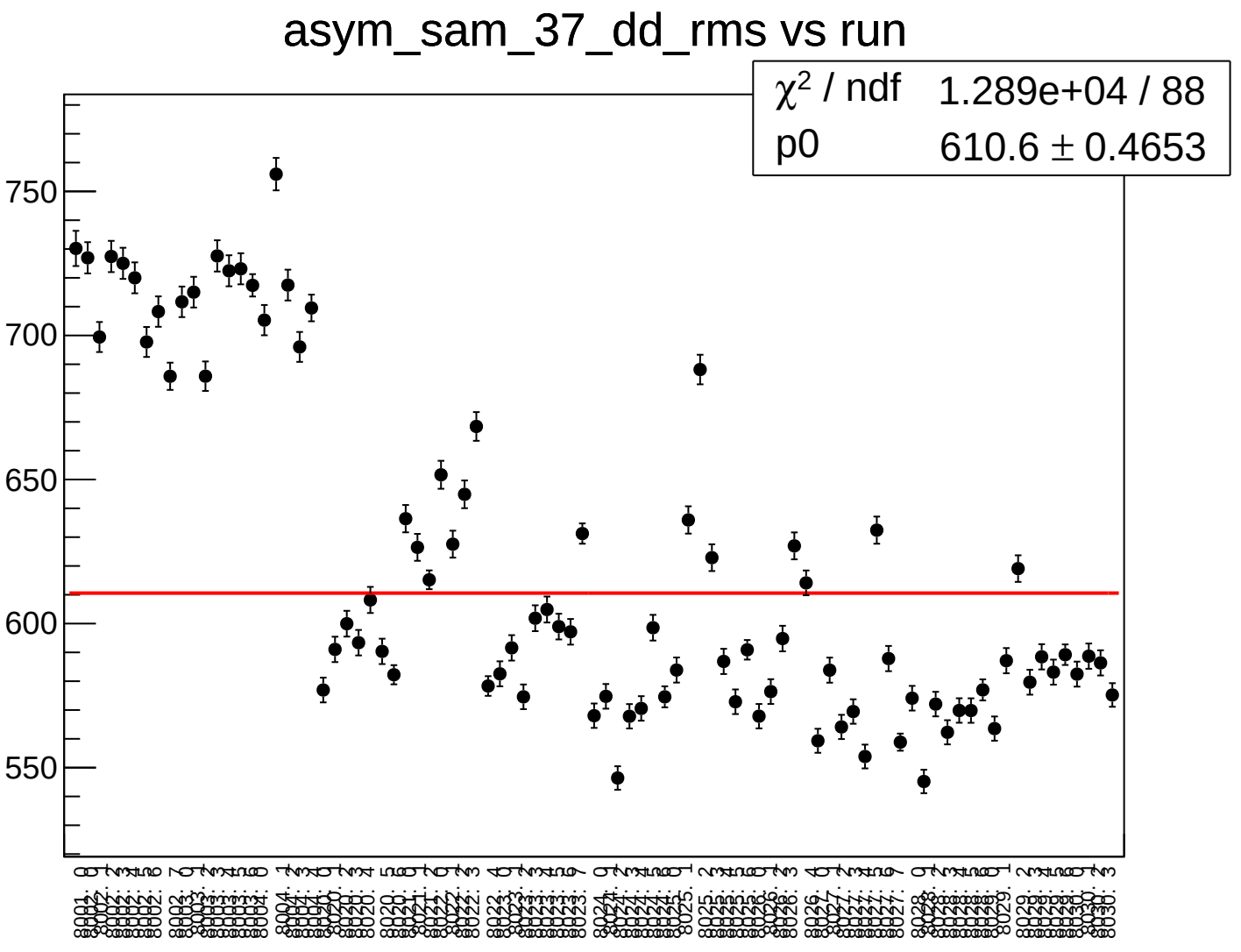

asym_sam_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 85.33 / 88
p0 328.3 ± 641.1
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 227.9
Std Dev 0
3
2
1
0
−1
−2

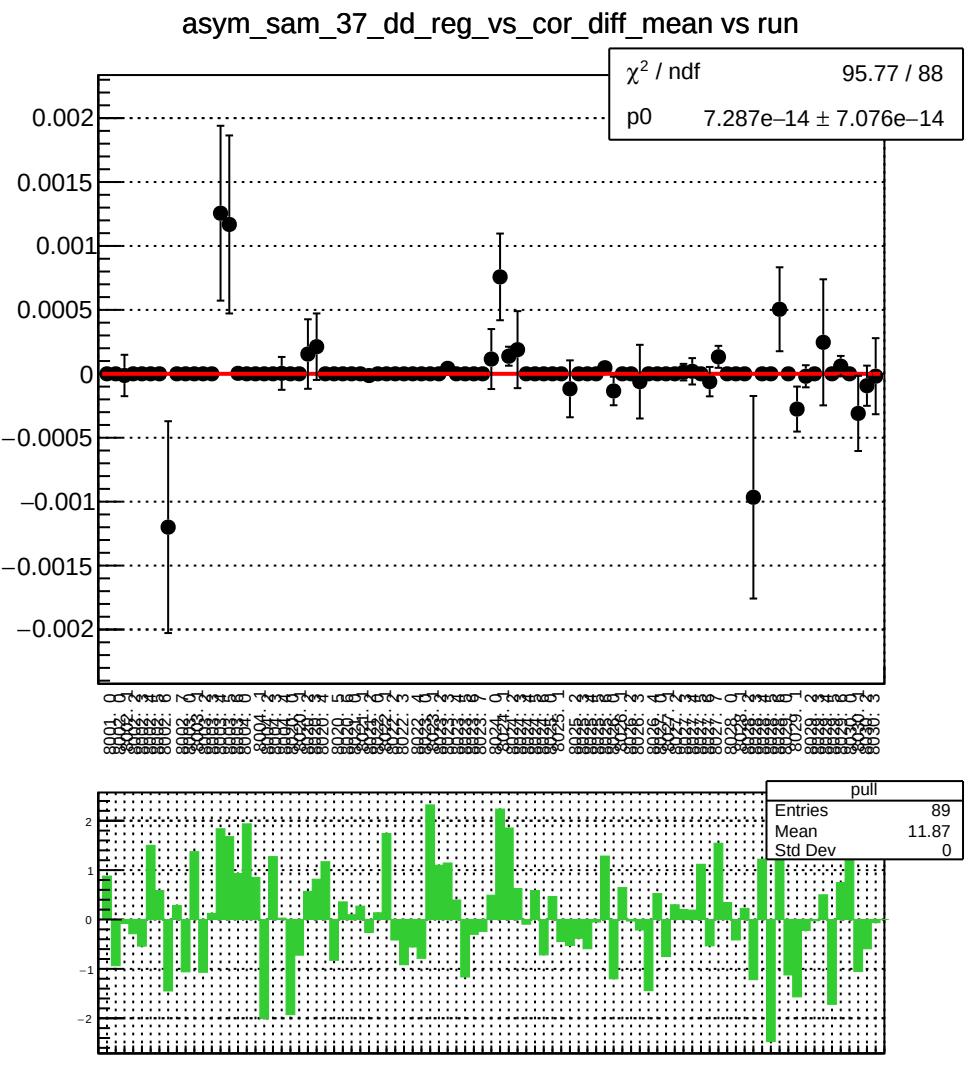

pull1D
Entries 89
Mean 0.01059
Std Dev 0.9791
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

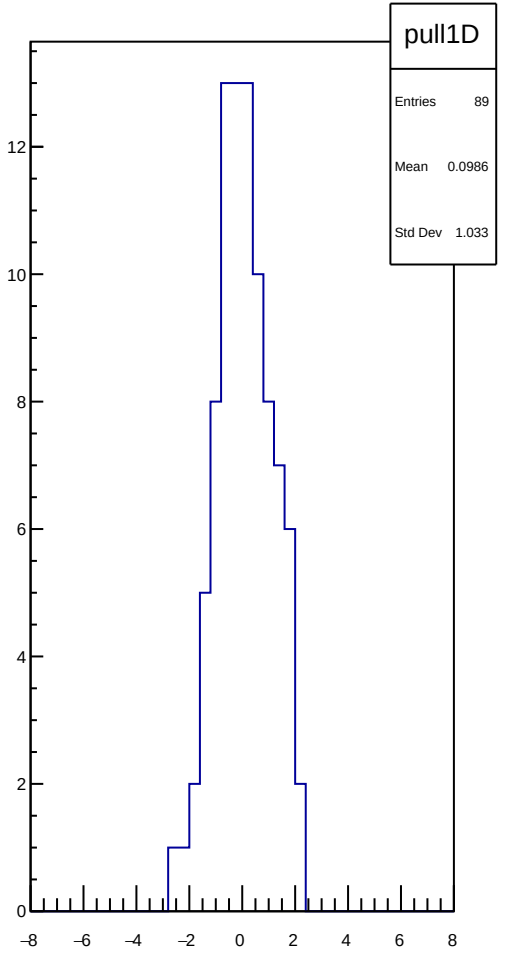

asym_sam_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 6.413e+04 / 88
p0 586 ± 0.4534
1000
900
800
700
600
500

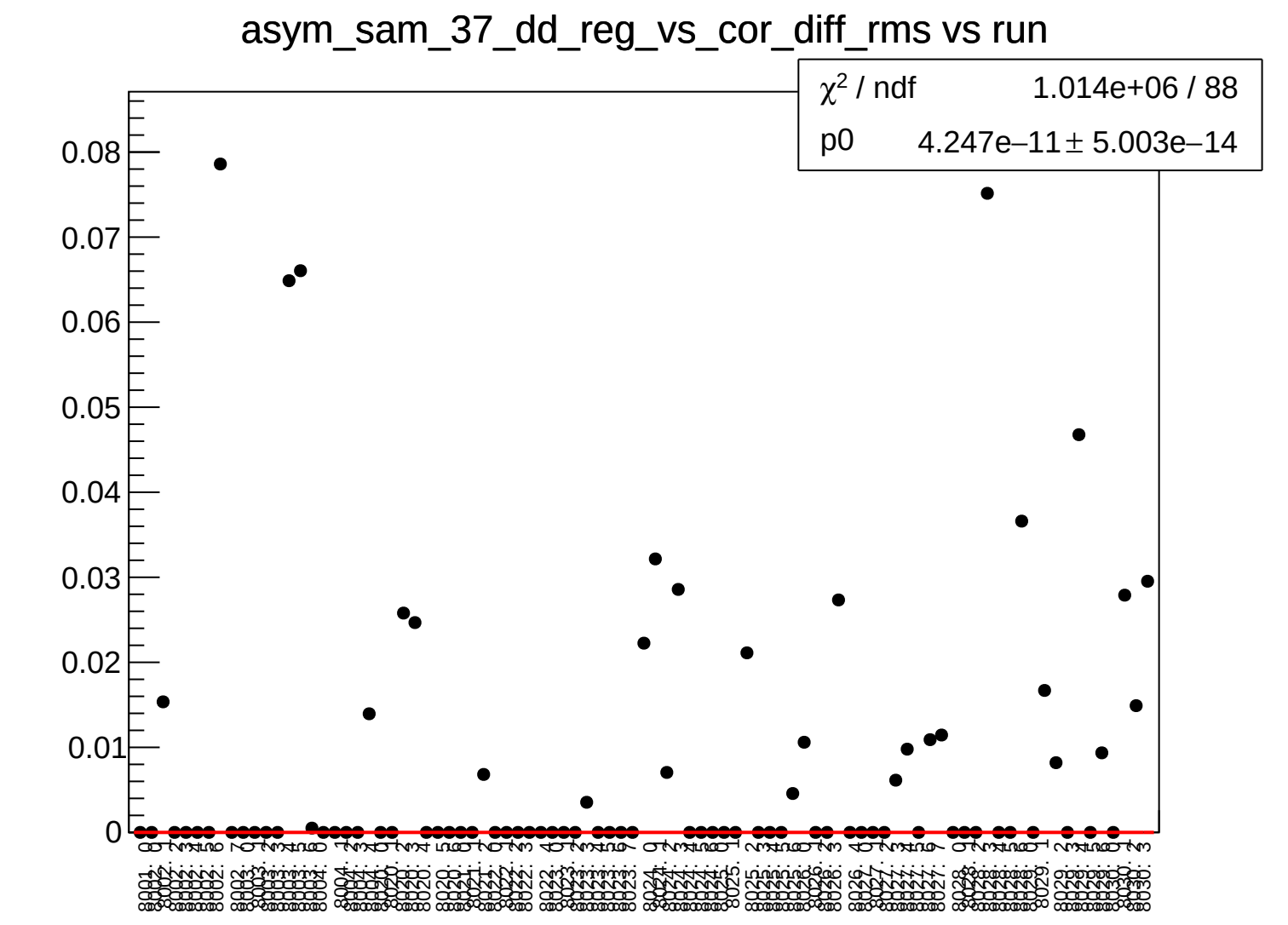

asym_sam_37_dd_mean vs run
χ² / ndf 88.2 / 88
p0 −243.7 ± 658.1
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 188.3
Std Dev 0
2
1
0
−1
−2
−3

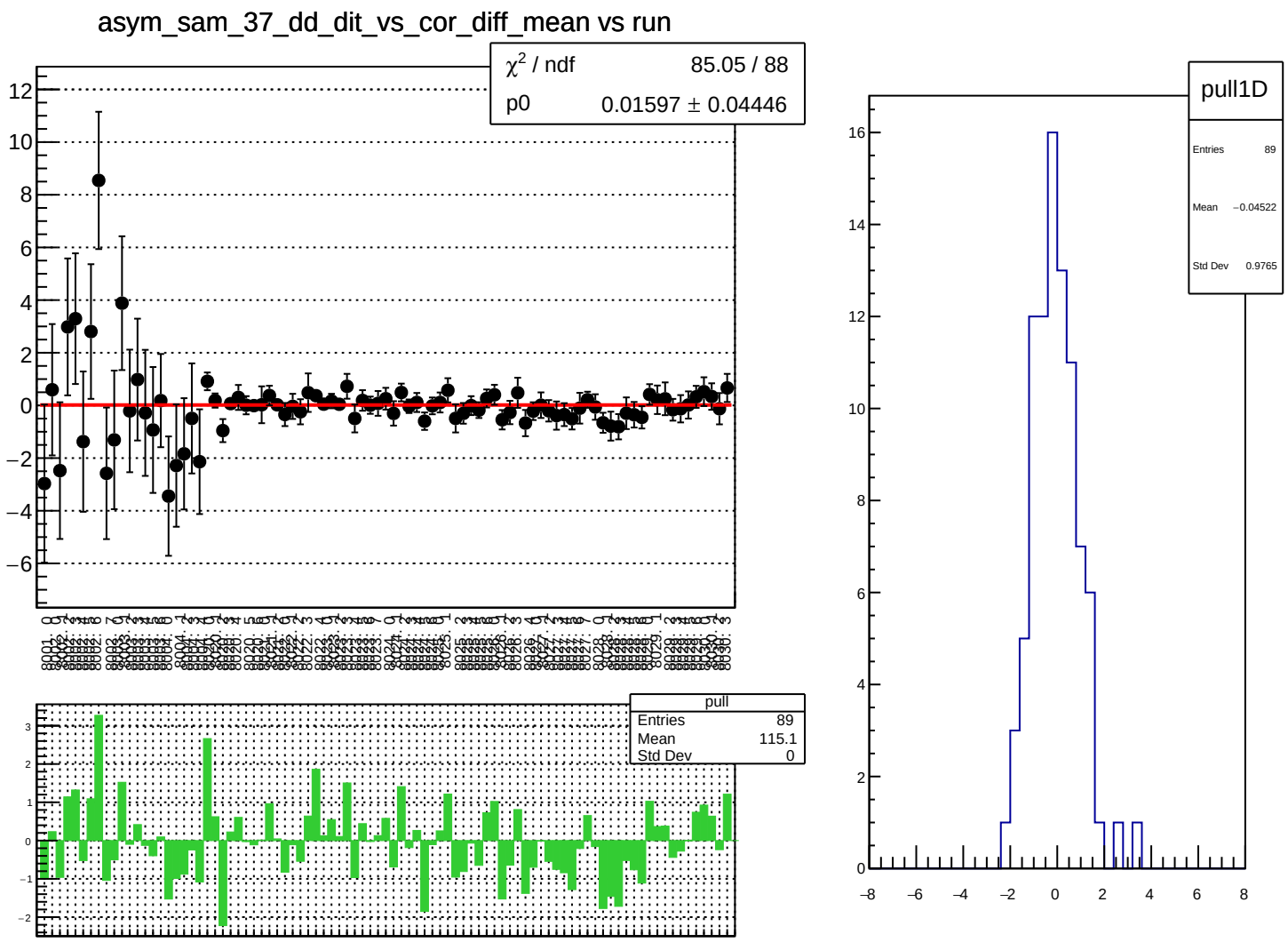

pull1D
Entries 89
Mean −0.01333
Std Dev 0.9954
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

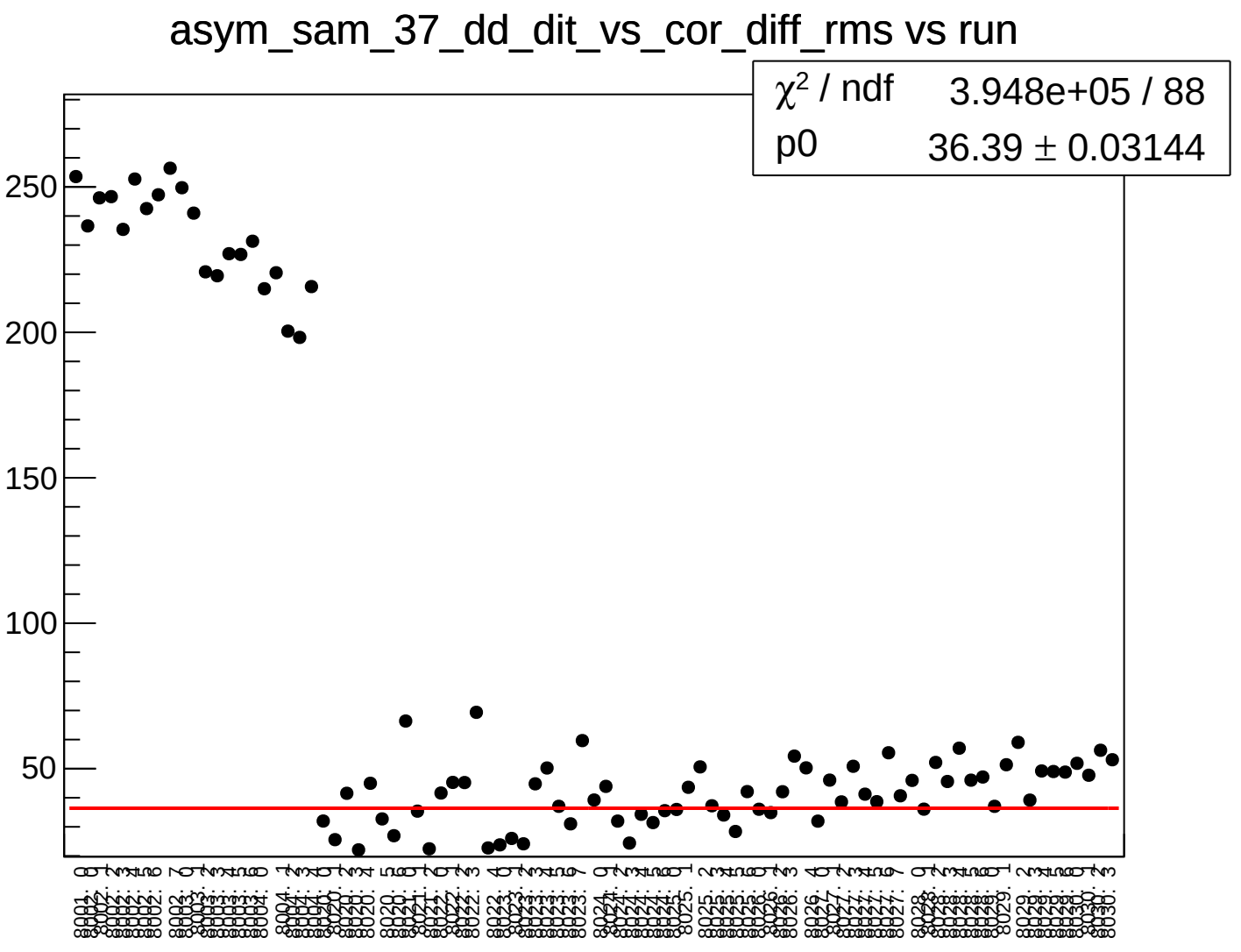

asym_sam_37_dd_rms vs run
χ² / ndf 1.289e+04 / 88
p0 610.6 ± 0.4653
750
700
650
600
550

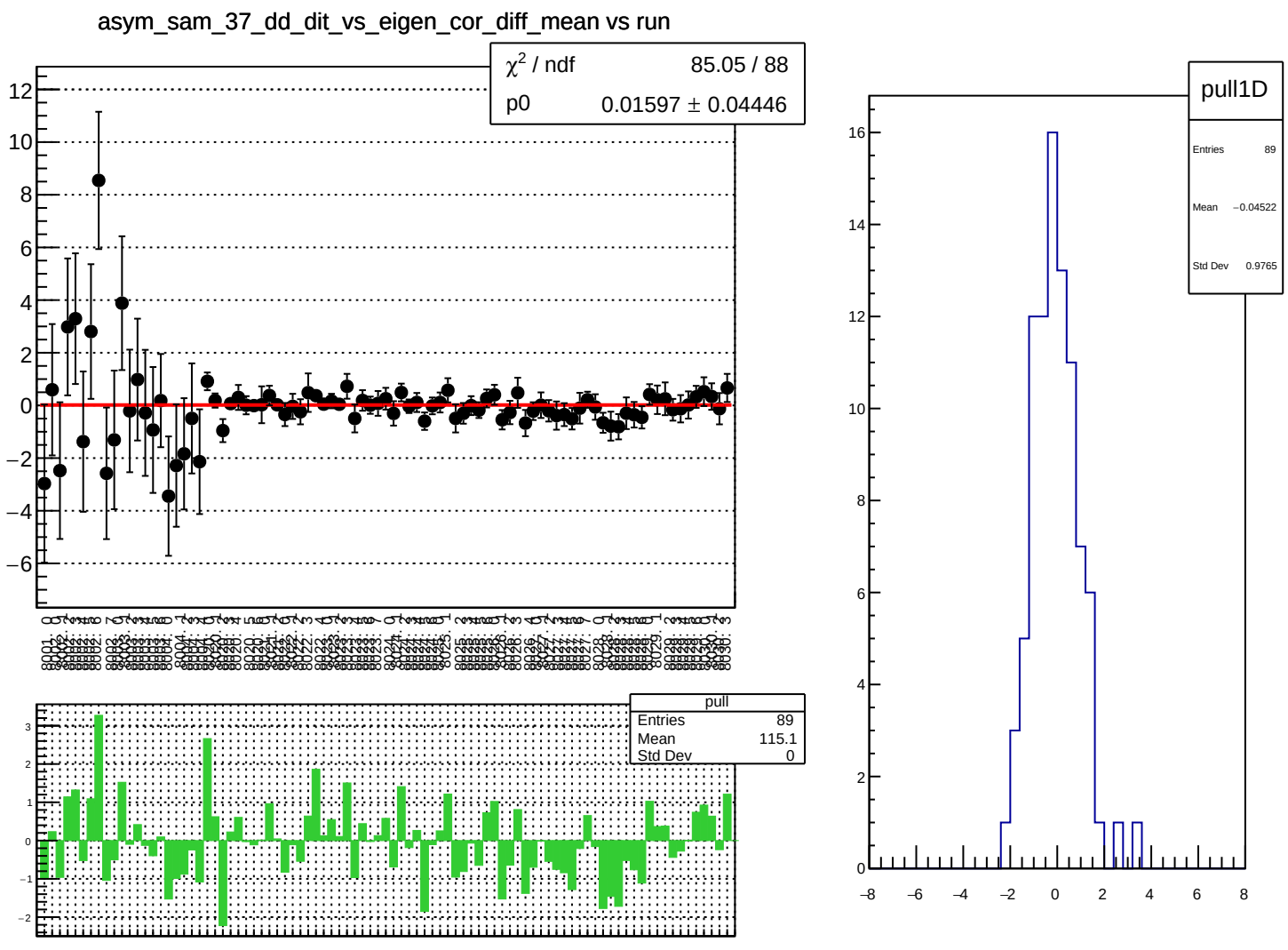

asym_sam_37_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 95.77 / 88
p0 7.287e−14 ± 7.076e−14
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 89
Mean 11.87
Std Dev 0
2
1
0
−1
−2

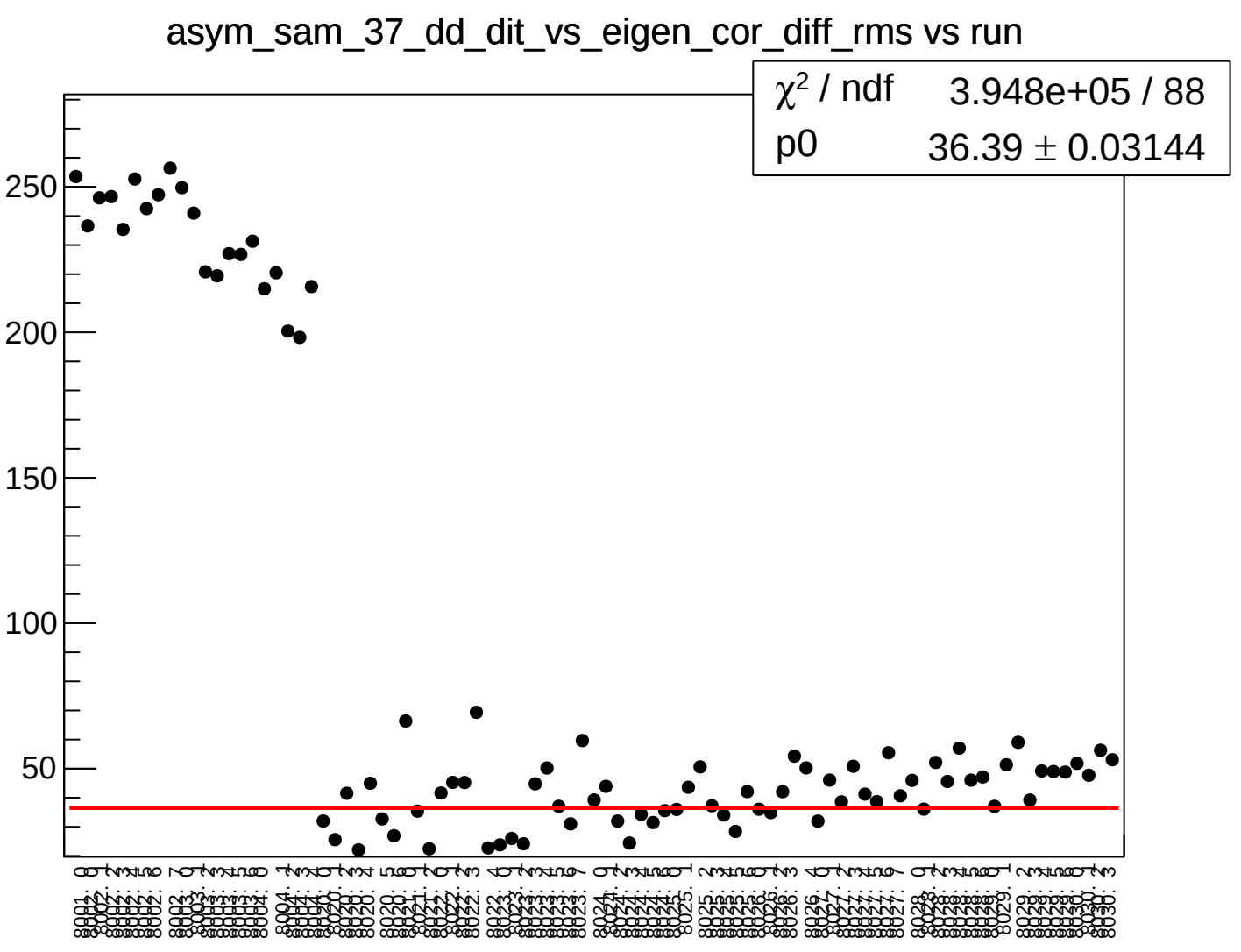

pull1D
Entries 89
Mean 0.0986
Std Dev 1.033
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

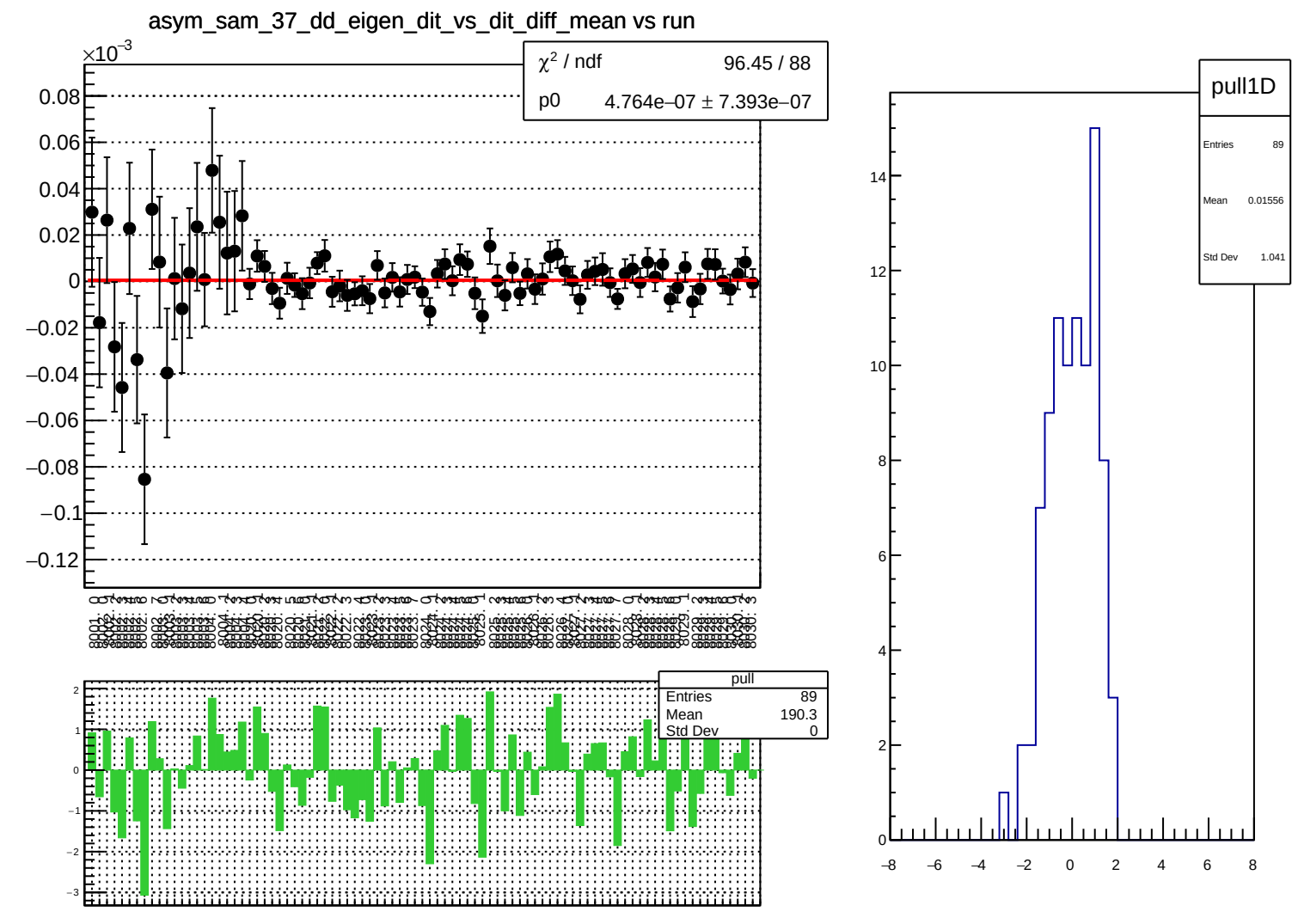

asym_sam_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.014e+06 / 88
p0 4.247e−11 ± 5.003e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

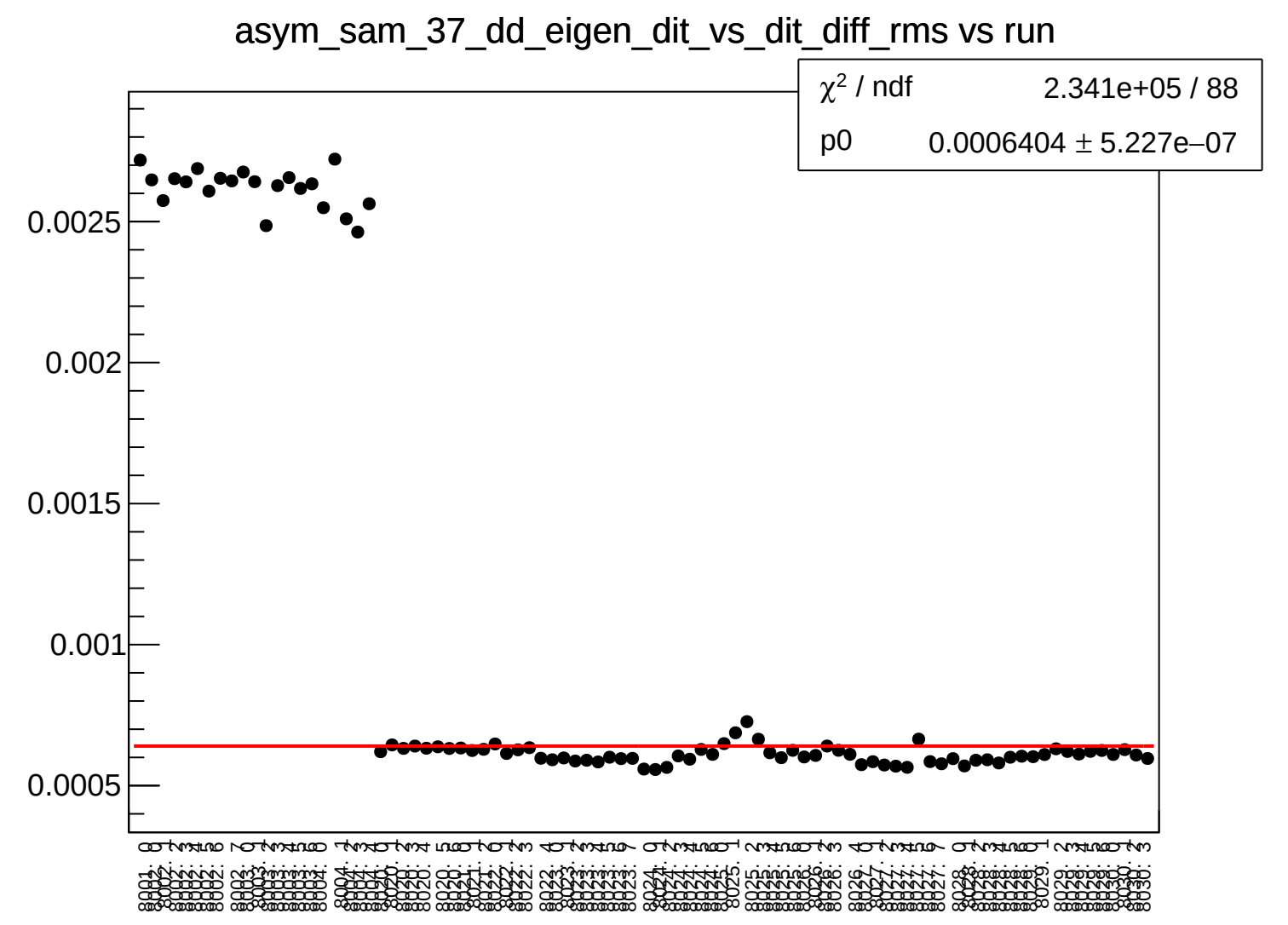

asym_sam_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 85.05 / 88
p0 0.01597 ± 0.04446
pull
Entries 89
Mean 115.1
Std Dev 0
pull1D
Entries 89
Mean −0.04522
Std Dev 0.9765

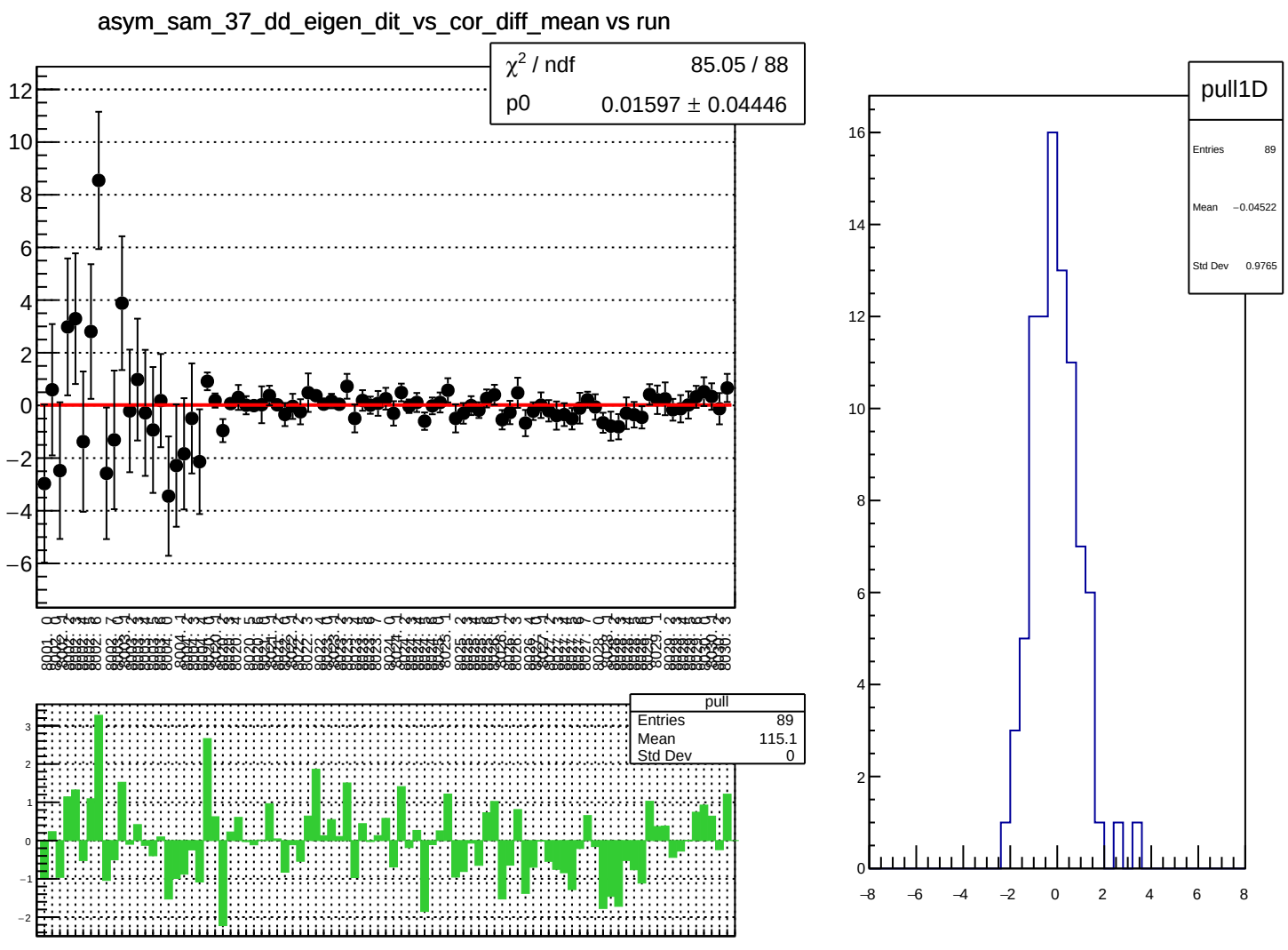

asym_sam_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.948e+05 / 88
p0 36.39 ± 0.03144
250
200
150
100
50

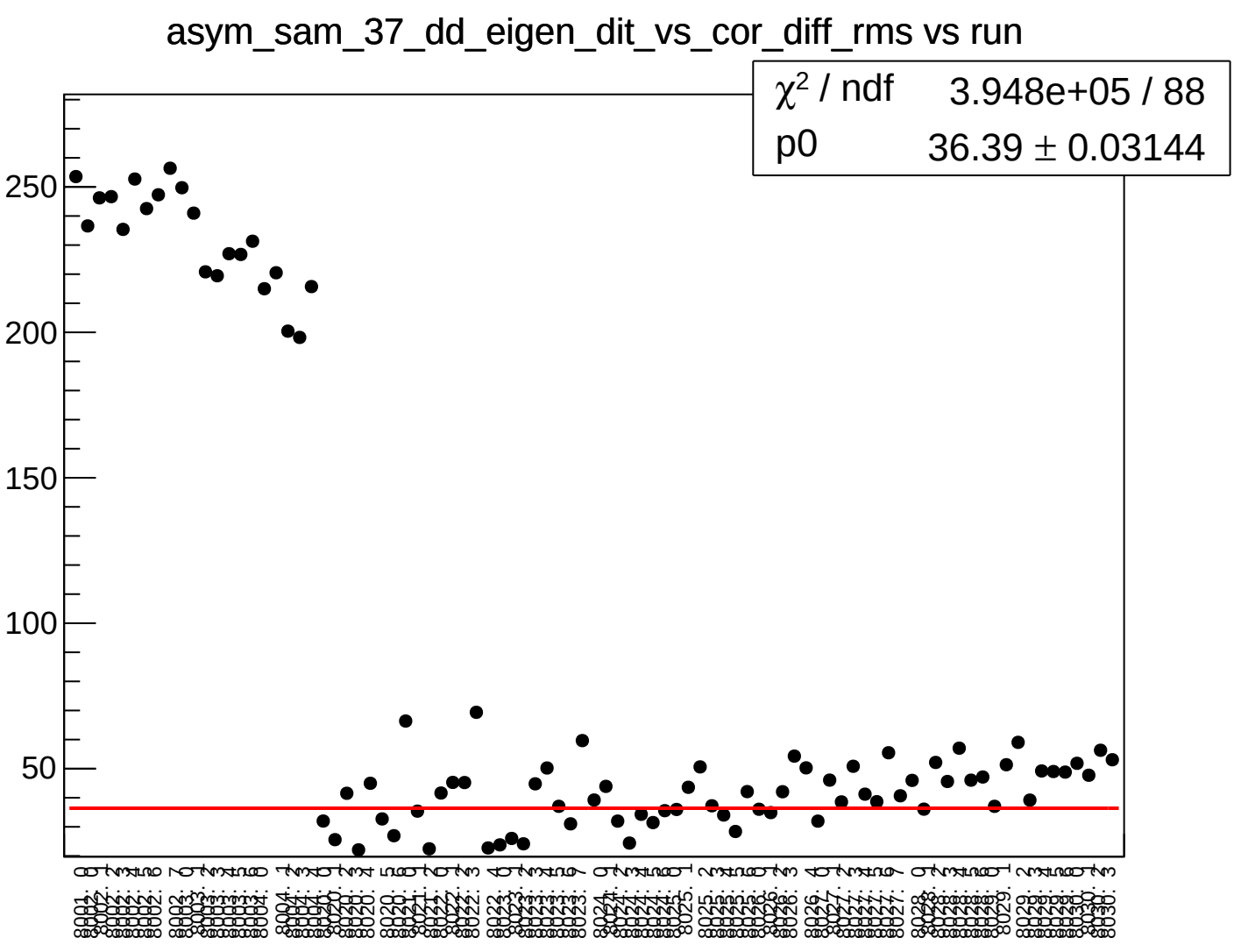

asym_sam_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.05 / 88
p0 0.01597 ± 0.04446
pull
Entries 89
Mean 115.1
Std Dev 0
pull1D
Entries 89
Mean −0.04522
Std Dev 0.9765

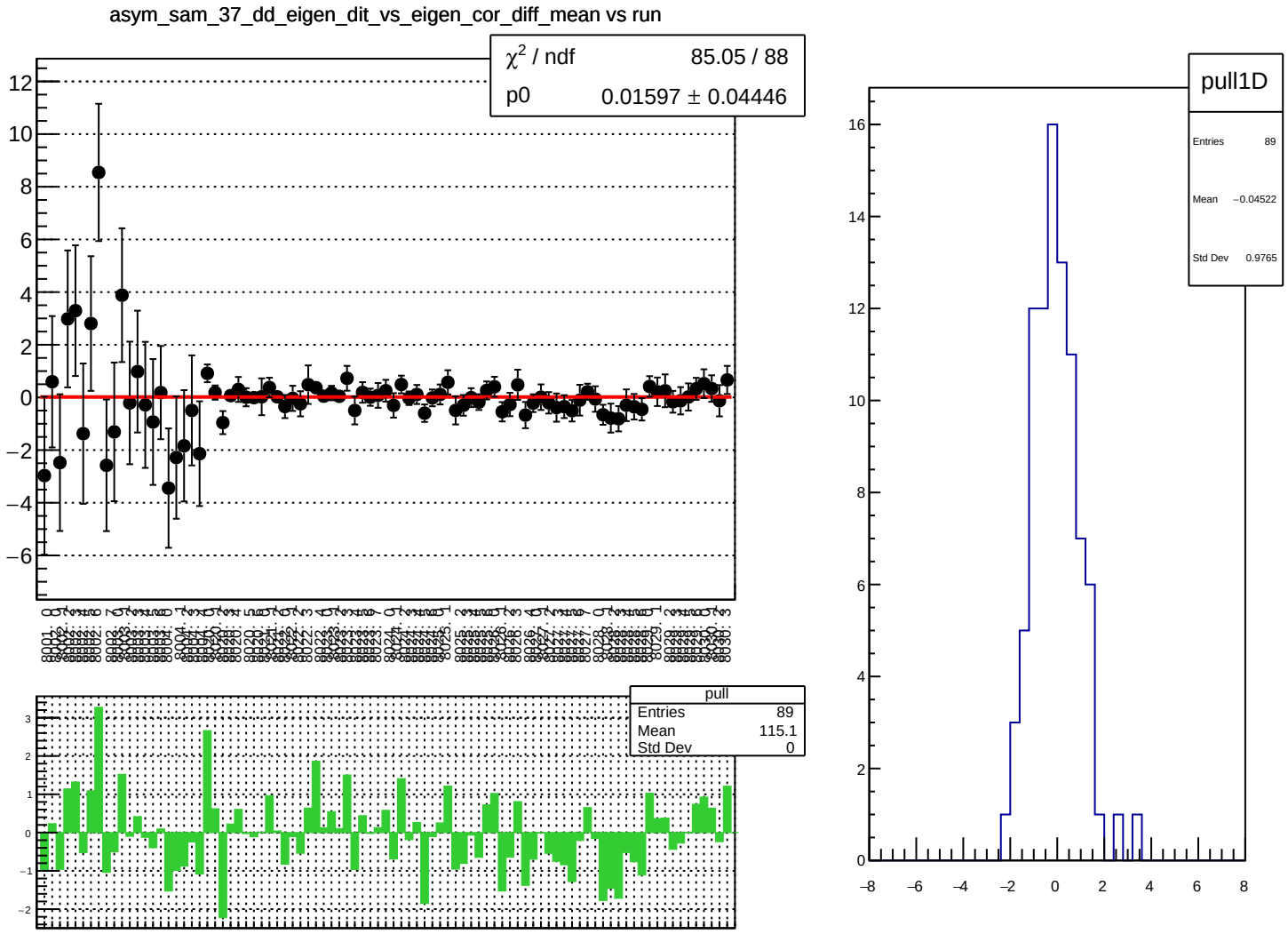

asym_sam_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.948e+05 / 88
p0 36.39 ± 0.03144
250
200
150
100
50

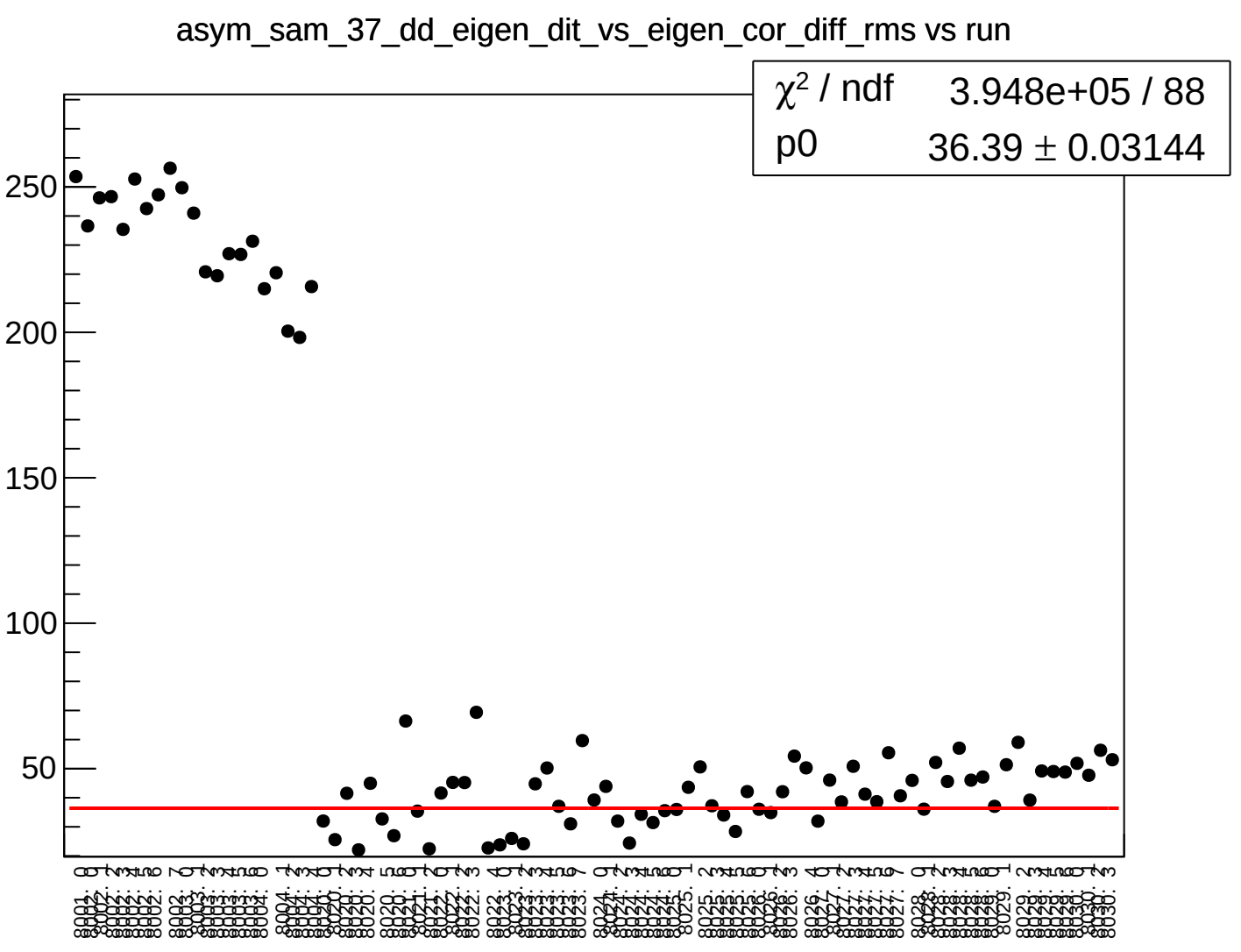

asym_sam_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.45 / 88
p0 4.764e−07 ± 7.393e−07
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
pull
Entries 89
Mean 190.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean 0.01556
Std Dev 1.041
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

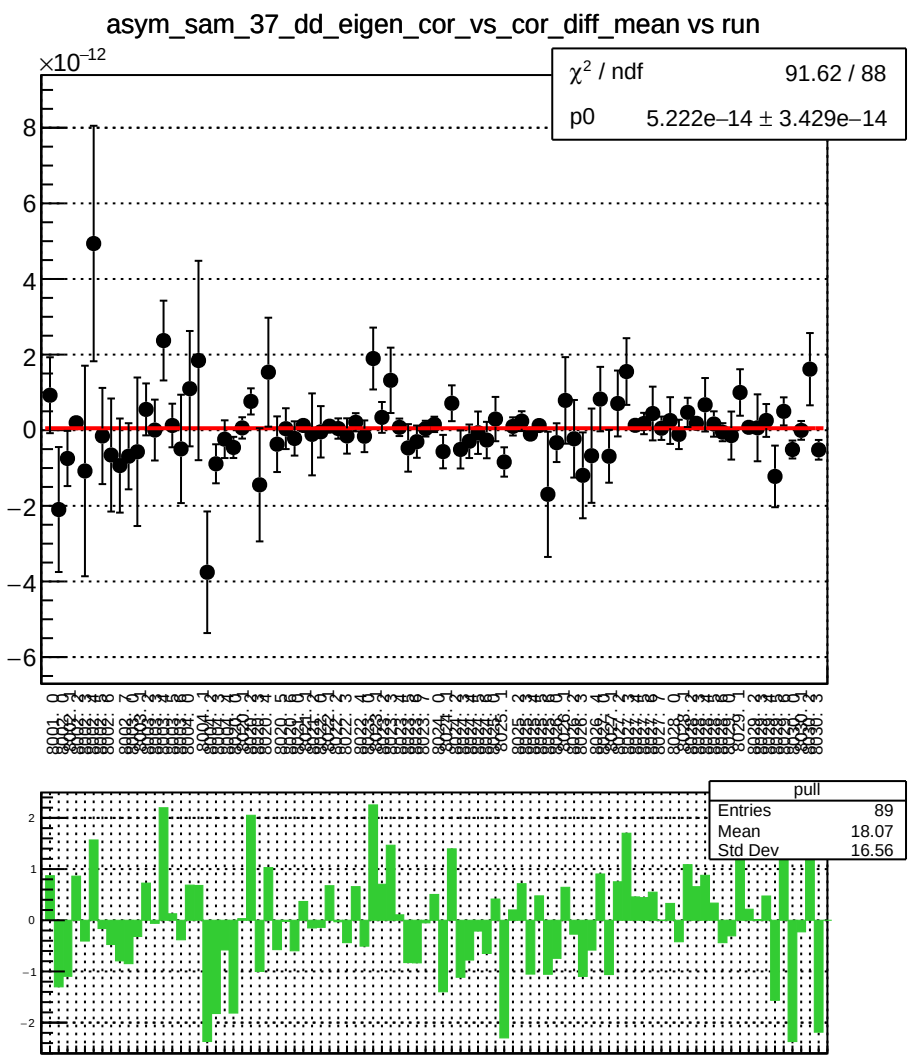

asym_sam_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.341e+05 / 88
p0 0.0006404 ± 5.227e−07
0.0025
0.002
0.0015
0.001
0.0005

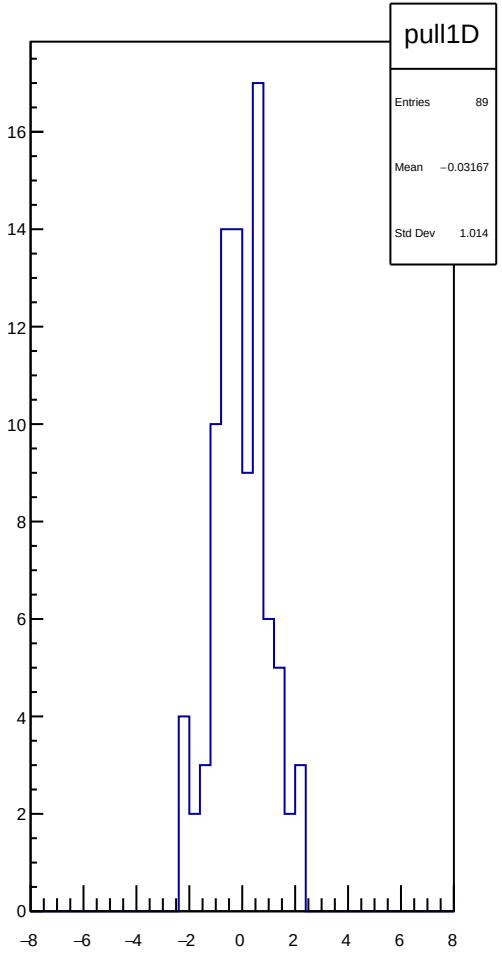

asym_sam_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.05 / 88
p0 0.01597 ± 0.04446
pull
Entries 89
Mean 115.1
Std Dev 0
pull1D
Entries 89
Mean −0.04522
Std Dev 0.9765

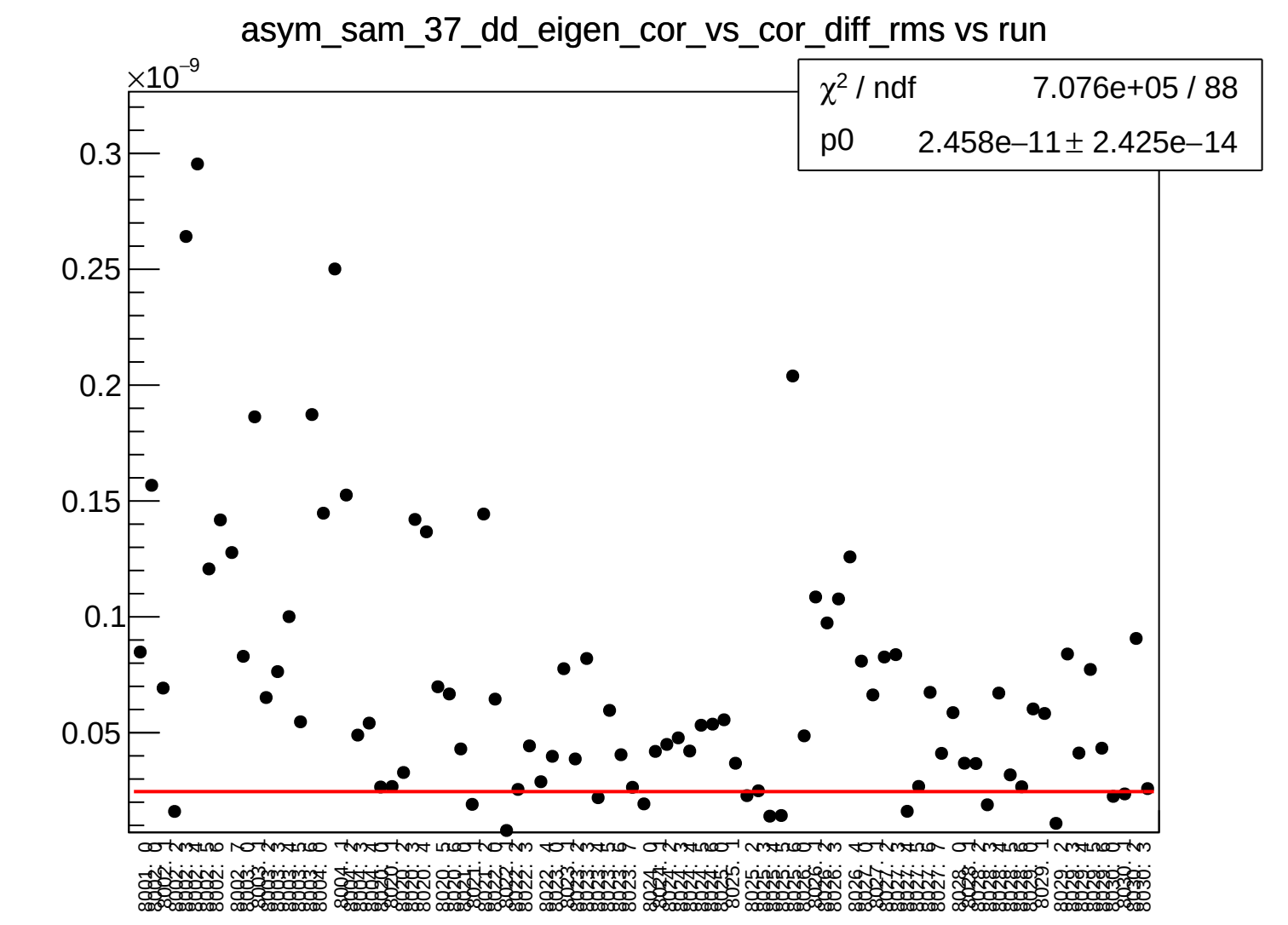

asym_sam_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.948e+05 / 88
p0 36.39 ± 0.03144
250
200
150
100
50

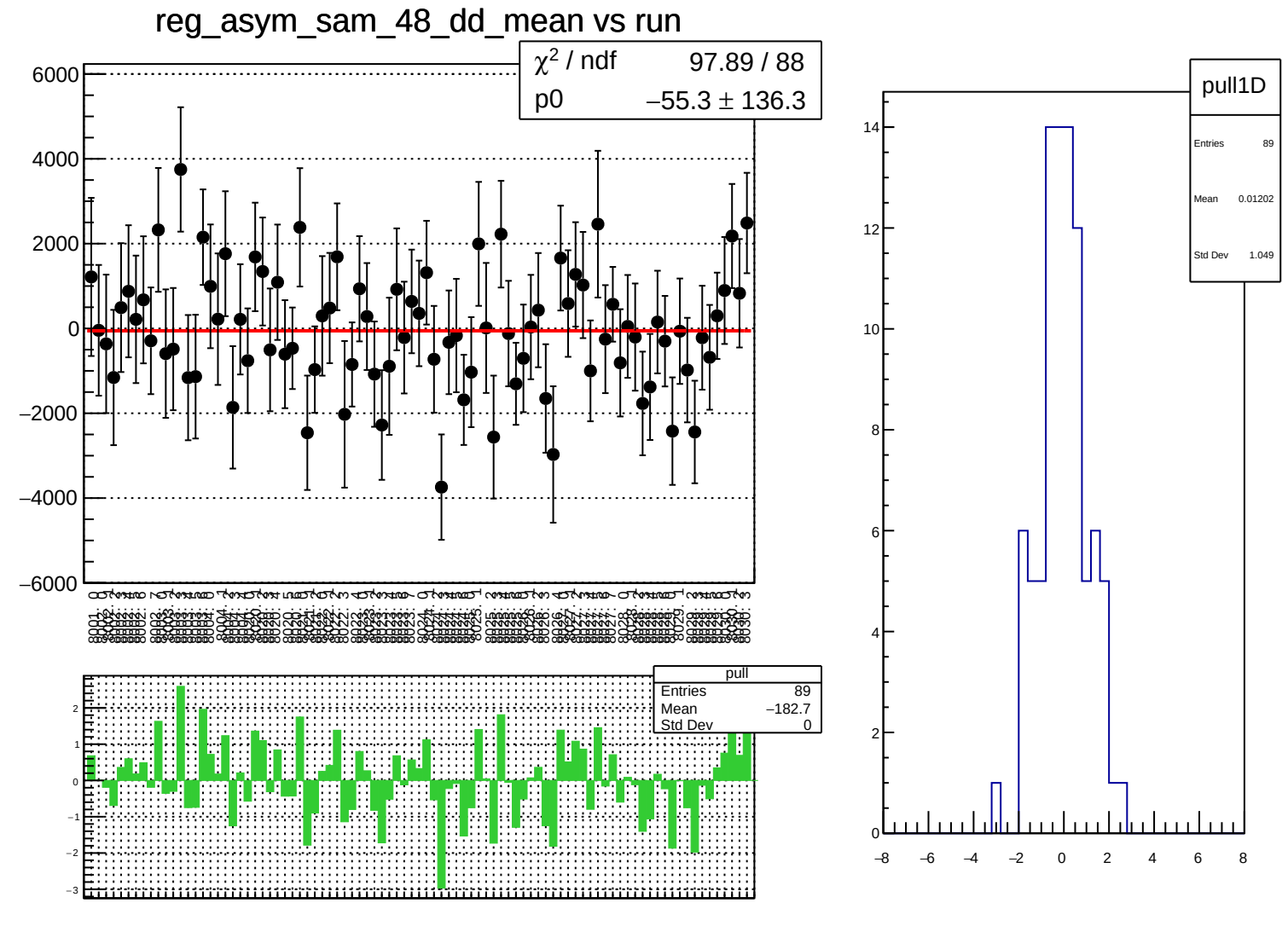

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.05 / 88
p0 0.01597 ± 0.04446
pull
Entries 89
Mean 115.1
Std Dev 0
pull1D
Entries 89
Mean −0.04522
Std Dev 0.9765

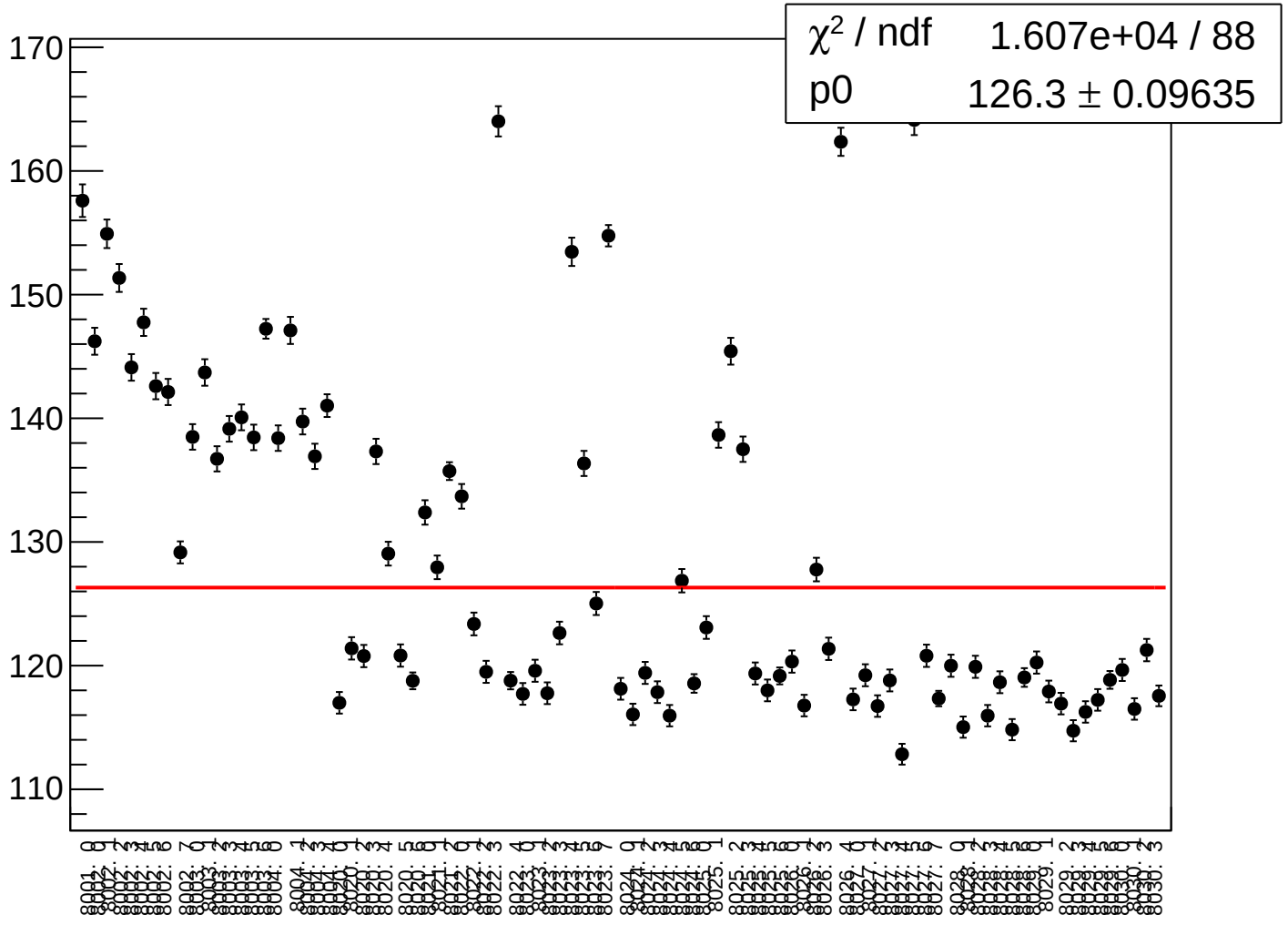

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.948e+05 / 88
p0 36.39 ± 0.03144
250
200
150
100
50

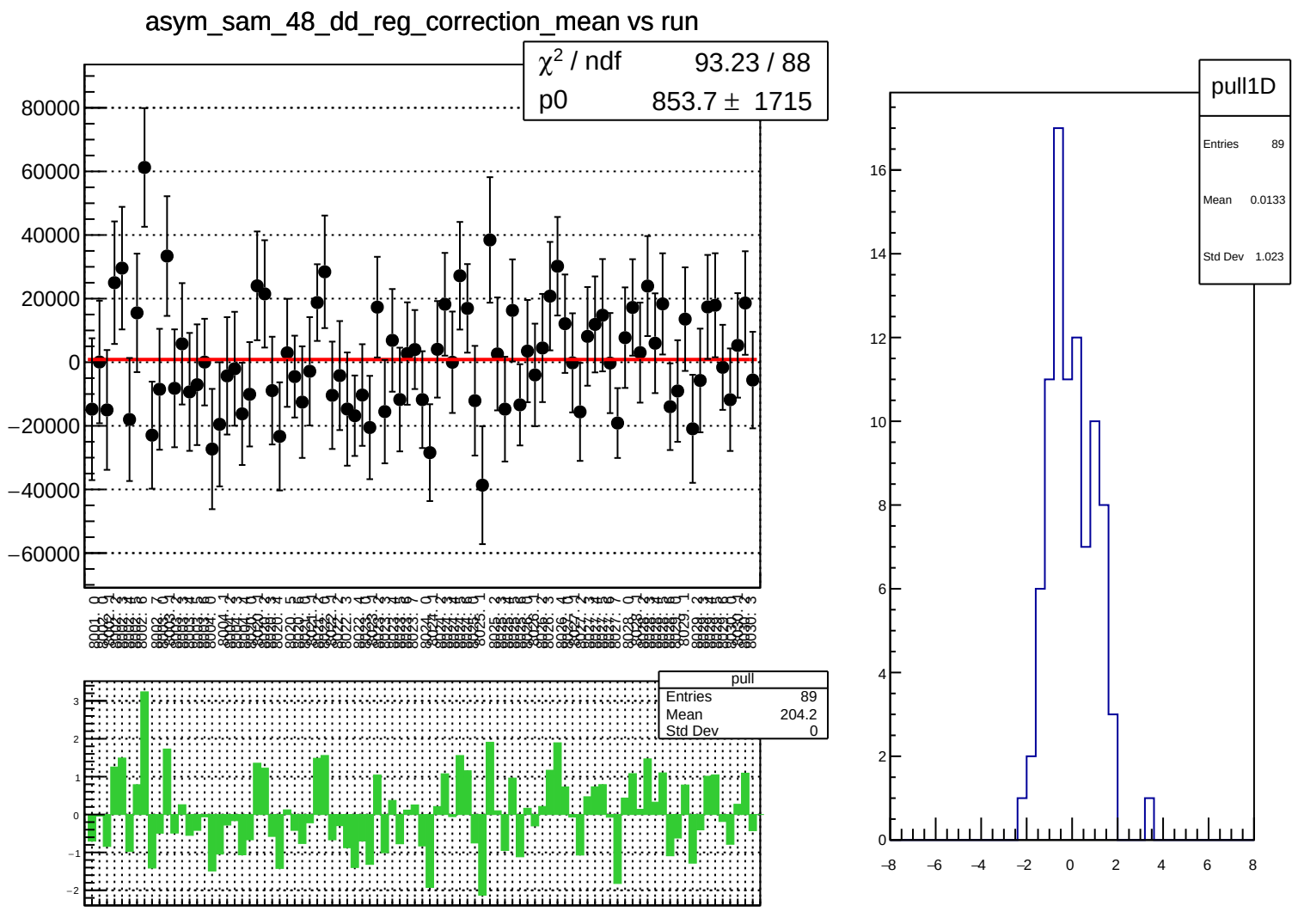

asym_sam_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.62 / 88
p0 5.222e−14 ± 3.429e−14
pull
Entries 89
Mean 18.07
Std Dev 16.56

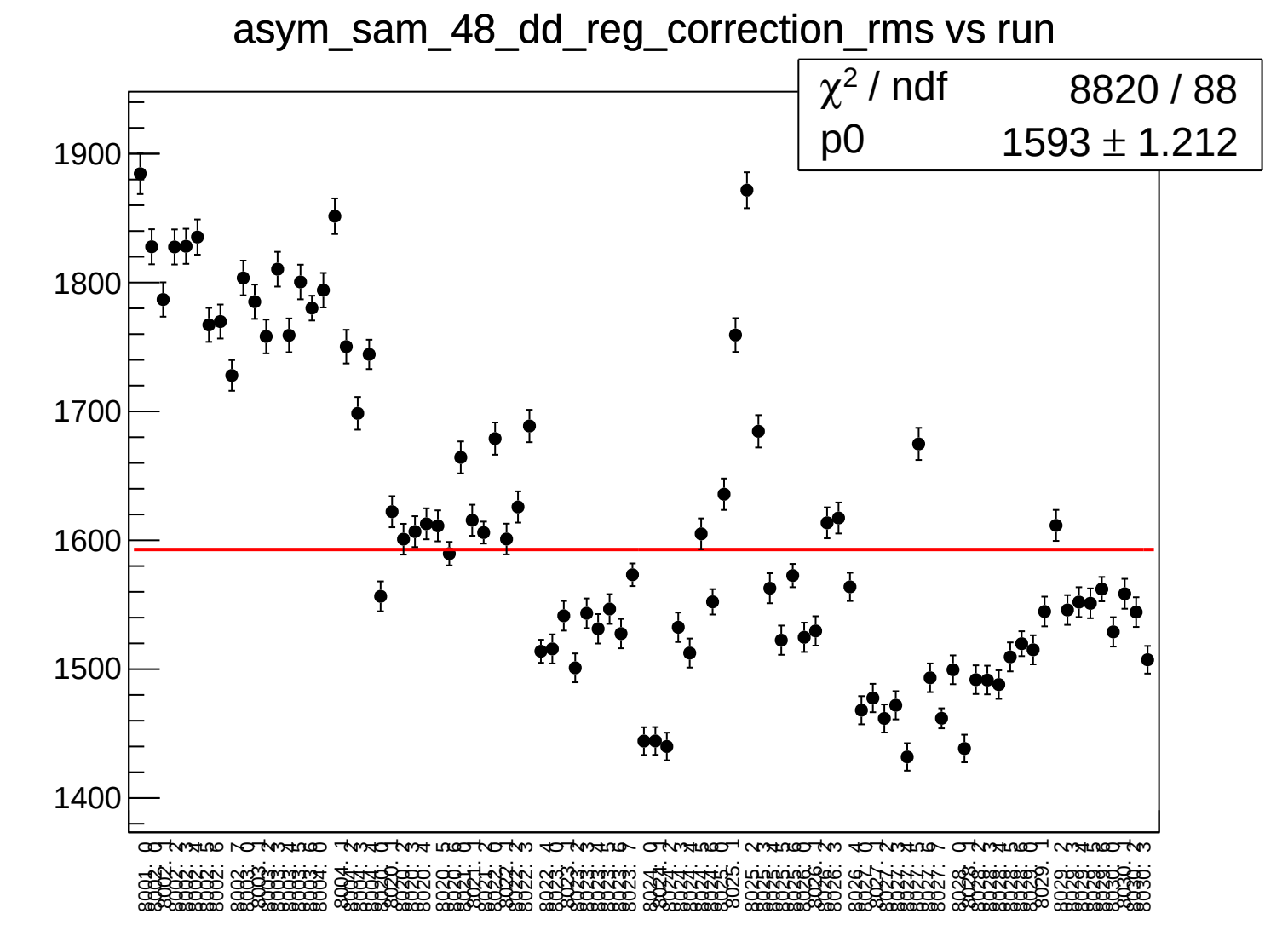

pull1D
Entries 89
Mean −0.03167
Std Dev 1.014

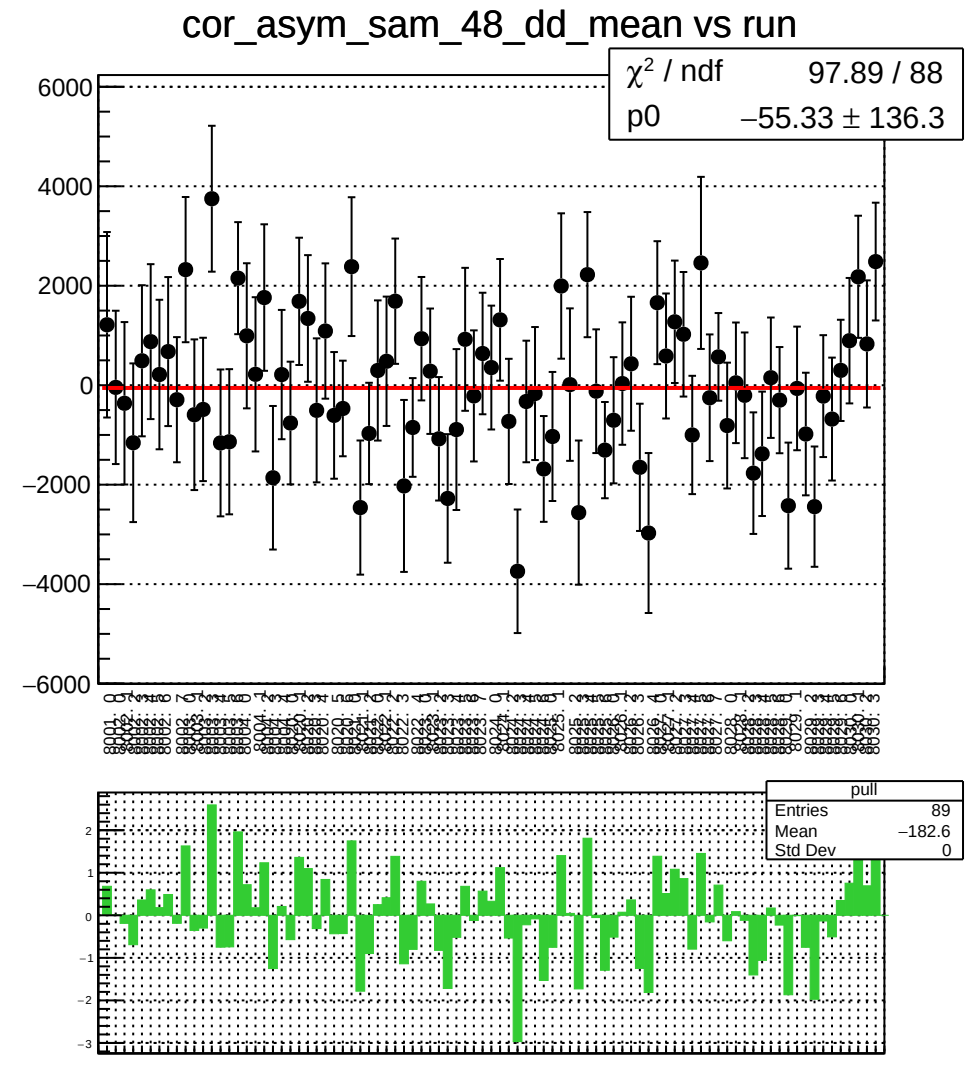

asym_sam_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.076e+05 / 88
p0 2.458e−11 ± 2.425e−14
0.3
0.25
0.2
0.15
0.1
0.05

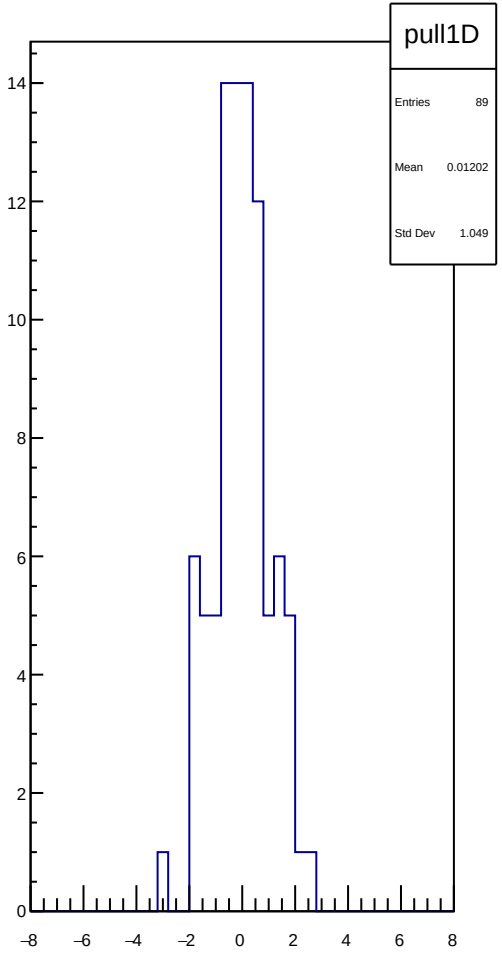

reg_asym_sam_48_dd_mean vs run
χ² / ndf 97.89 / 88
p0 −55.3 ± 136.3
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean −182.7
Std Dev 0
pull1D
Entries 89
Mean 0.01202
Std Dev 1.049

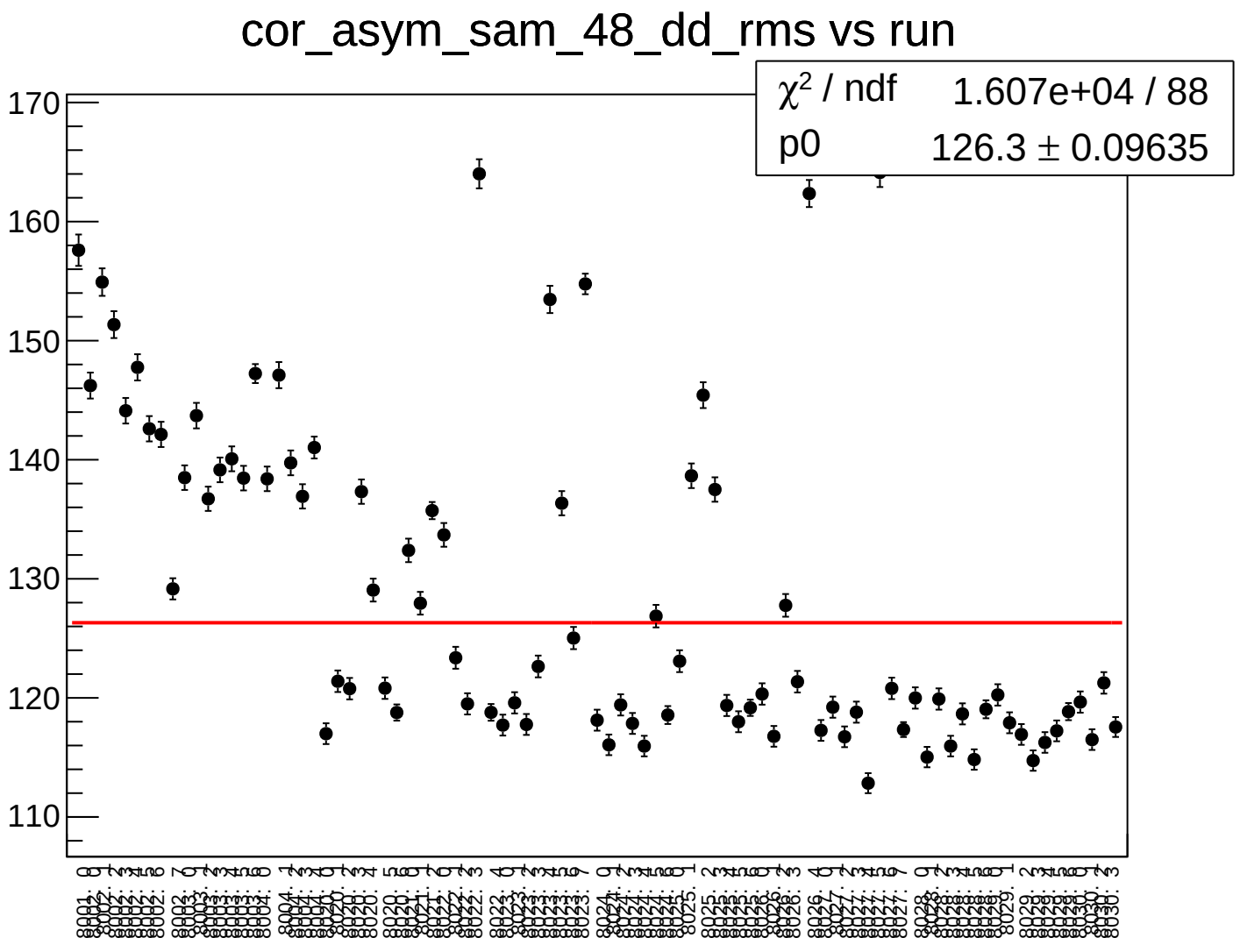

reg_asym_sam_48_dd_rms vs run
χ² / ndf 1.607e+04 / 88
p0 126.3 ± 0.09635
170
160
150
140
130
120
110

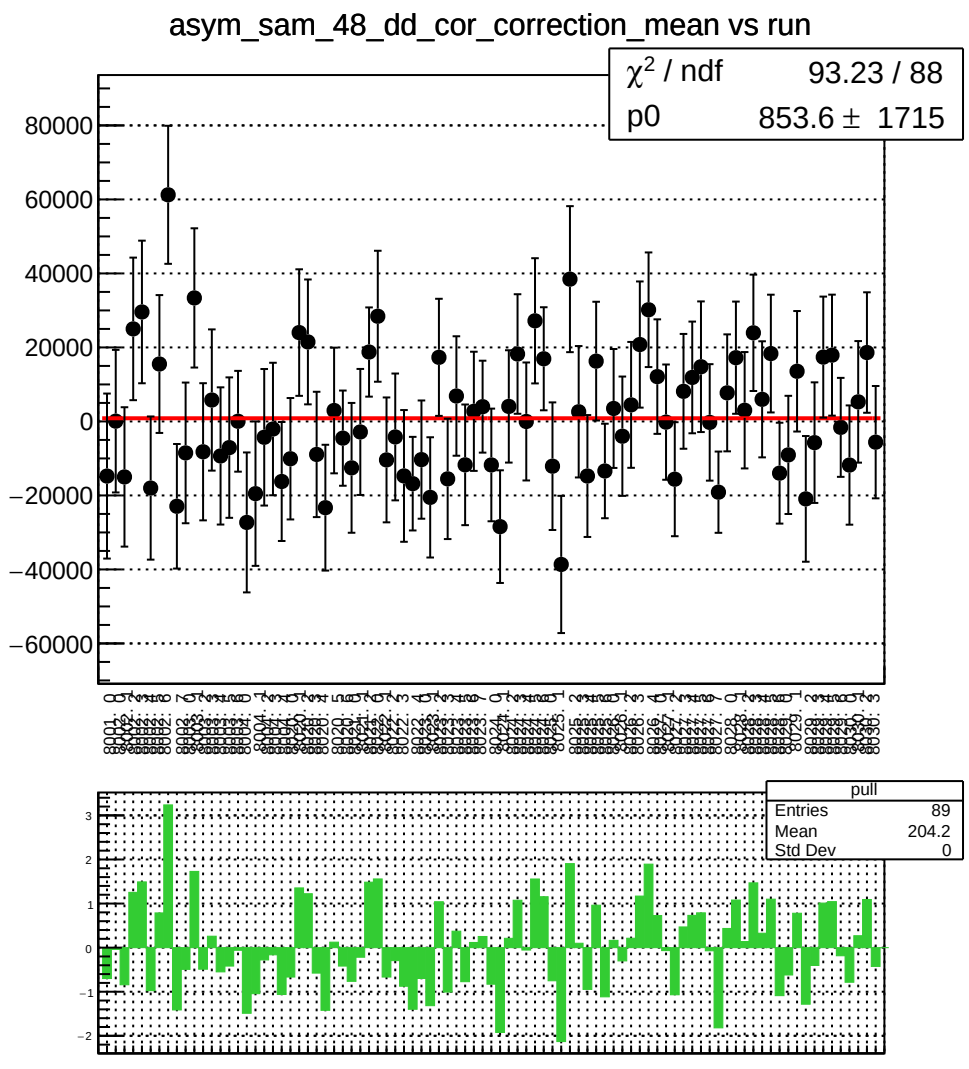

asym_sam_48_dd_reg_correction_mean vs run
χ² / ndf 93.23 / 88
p0 853.7 ± 1715
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 204.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.0133
Std Dev 1.023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

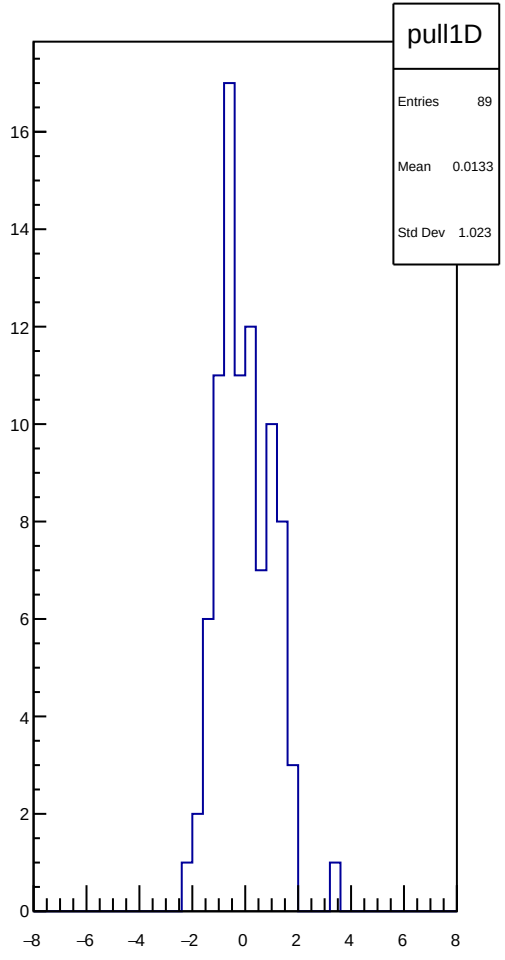

asym_sam_48_dd_reg_correction_rms vs run
χ² / ndf 8820 / 88
p0 1593 ± 1.212
1900
1800
1700
1600
1500
1400

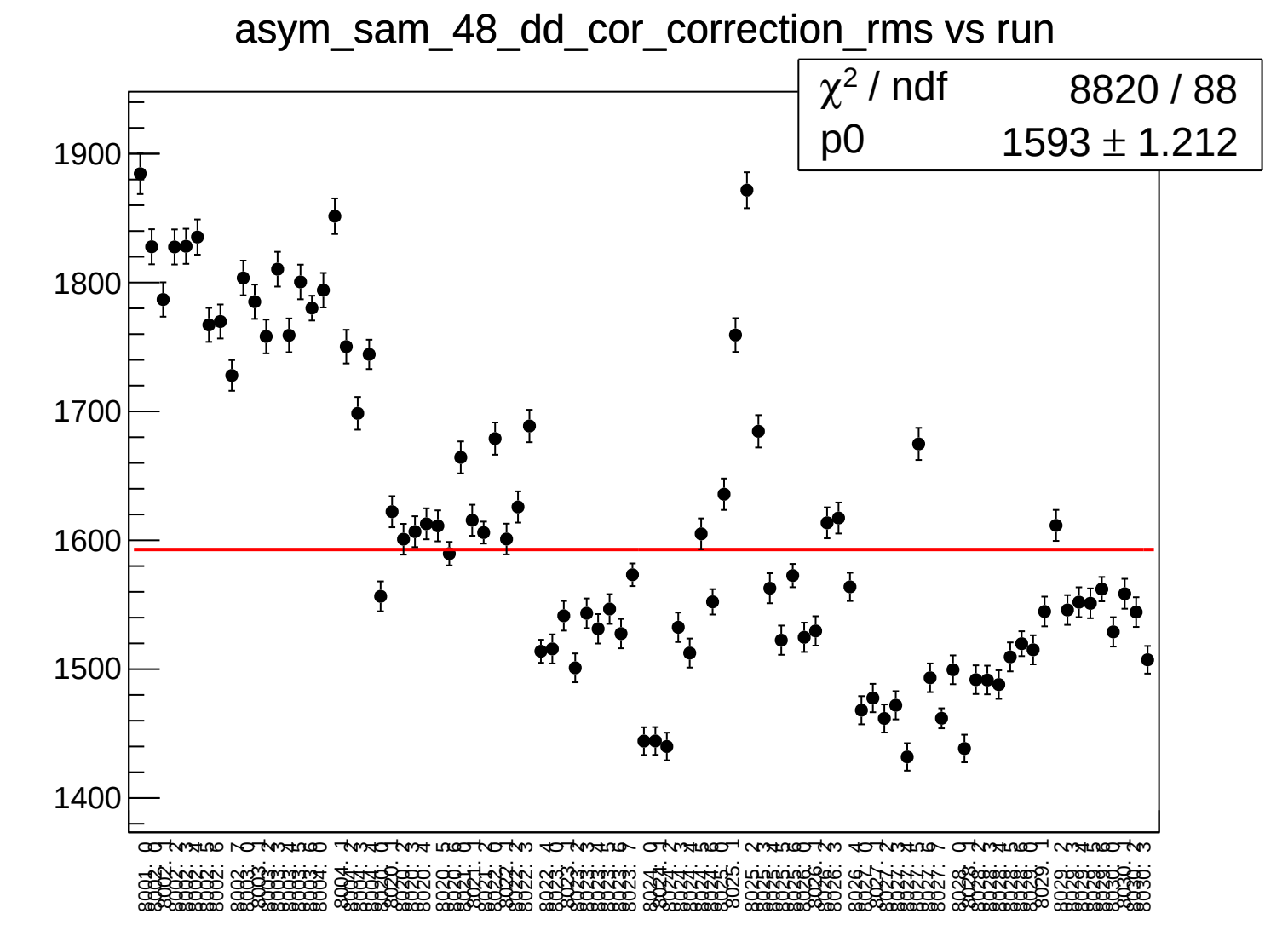

cor_asym_sam_48_dd_mean vs run
χ² / ndf 97.89 / 88
p0 −55.33 ± 136.3
pull
Entries 89
Mean −182.6
Std Dev 0

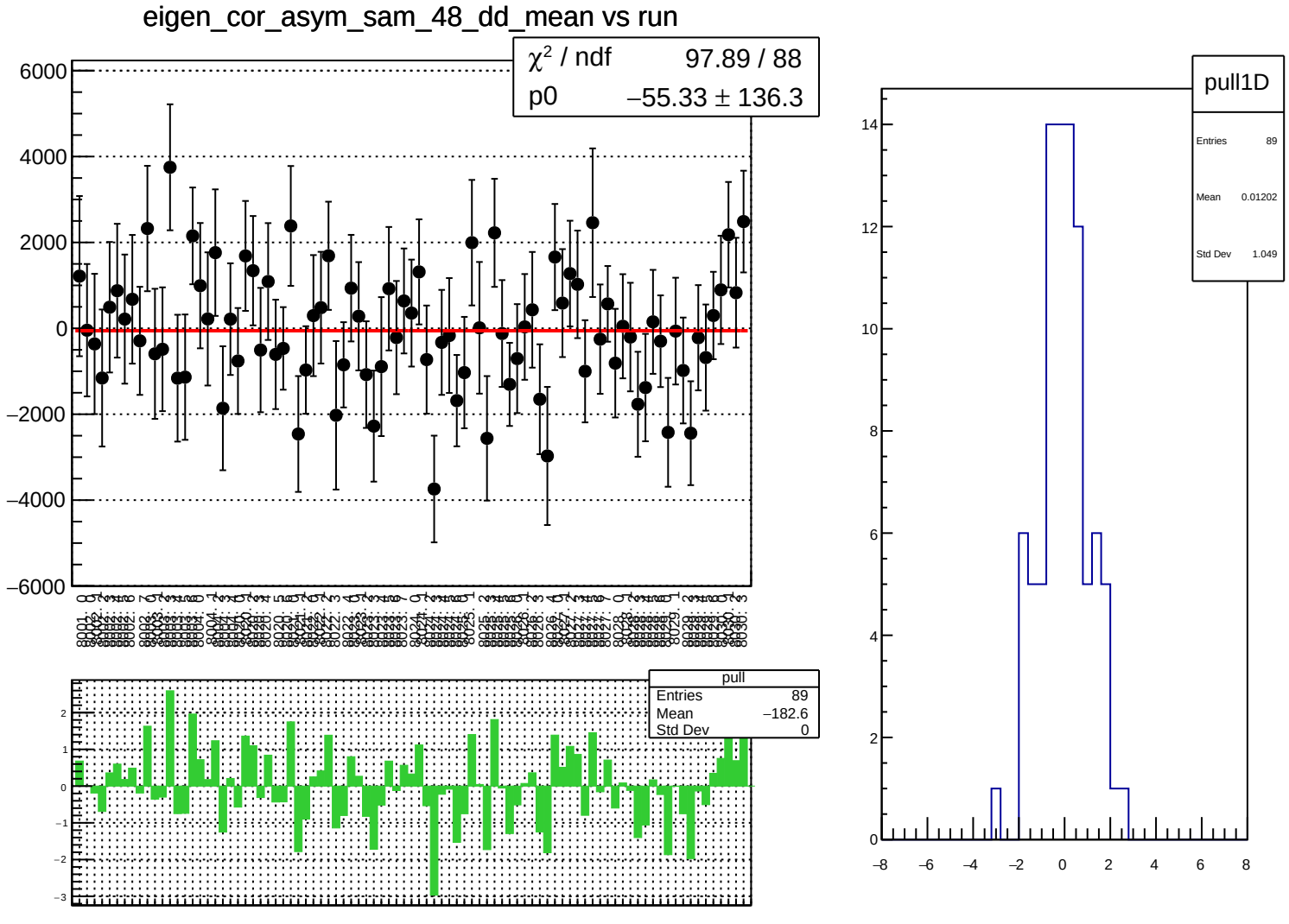

pull1D
Entries 89
Mean 0.01202
Std Dev 1.049

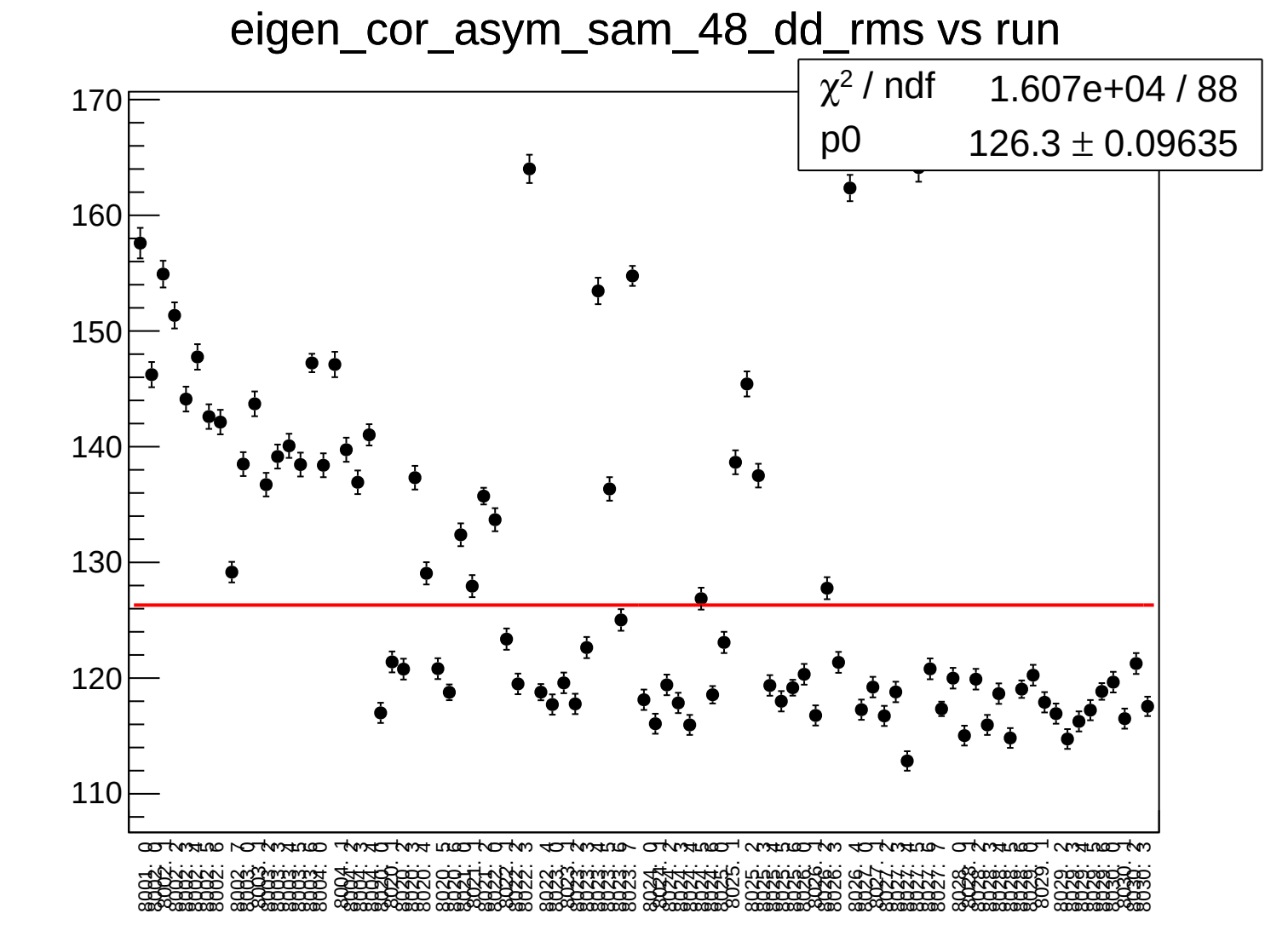

cor_asym_sam_48_dd_rms vs run
χ² / ndf 1.607e+04 / 88
p0 126.3 ± 0.09635
170
160
150
140
130
120
110

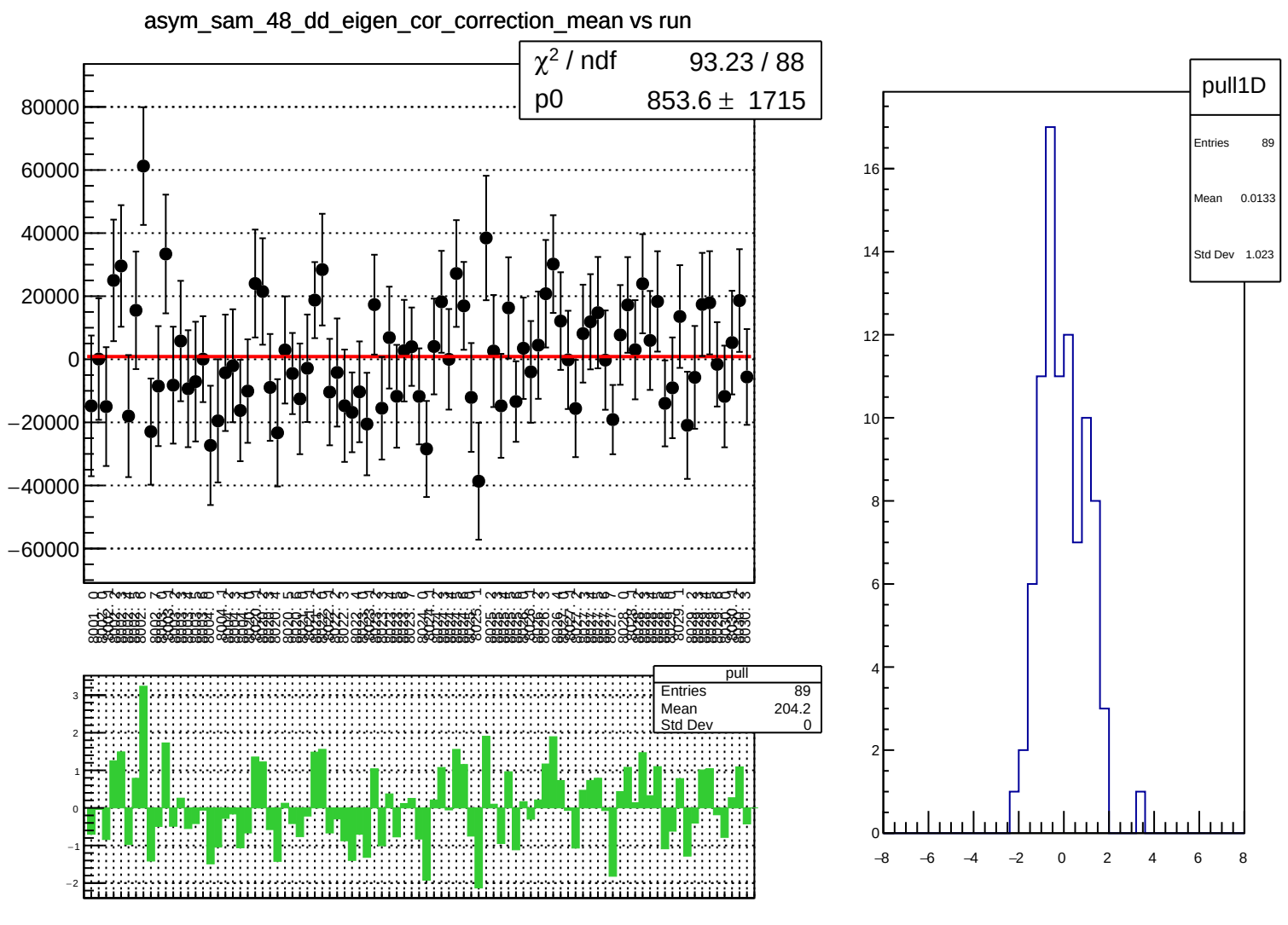

asym_sam_48_dd_cor_correction_mean vs run
χ² / ndf 93.23 / 88
p0 853.6 ± 1715
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 204.2
Std Dev 0
3
2
1
0
−1
−2

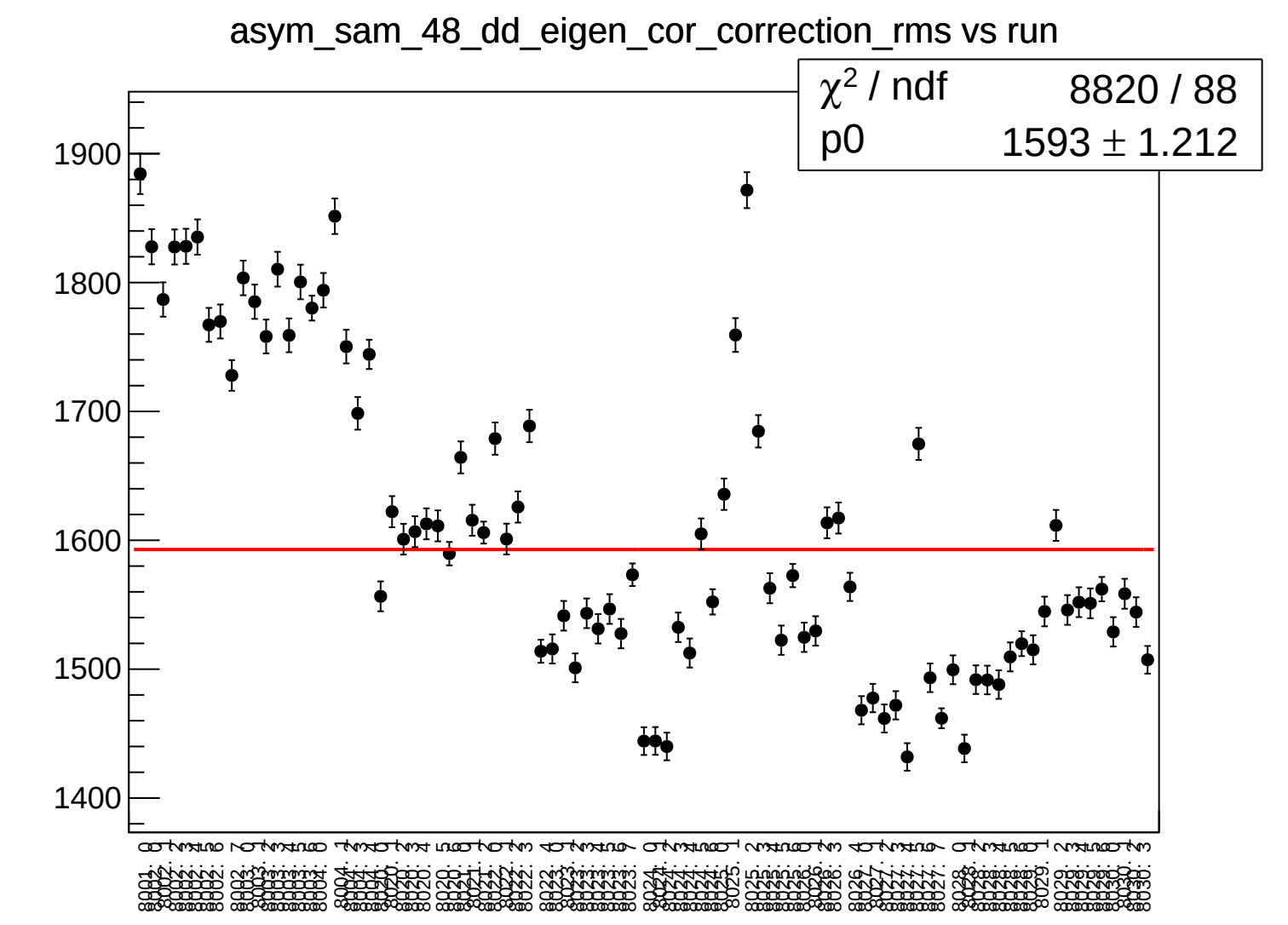

pull1D
Entries 89
Mean 0.0133
Std Dev 1.023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

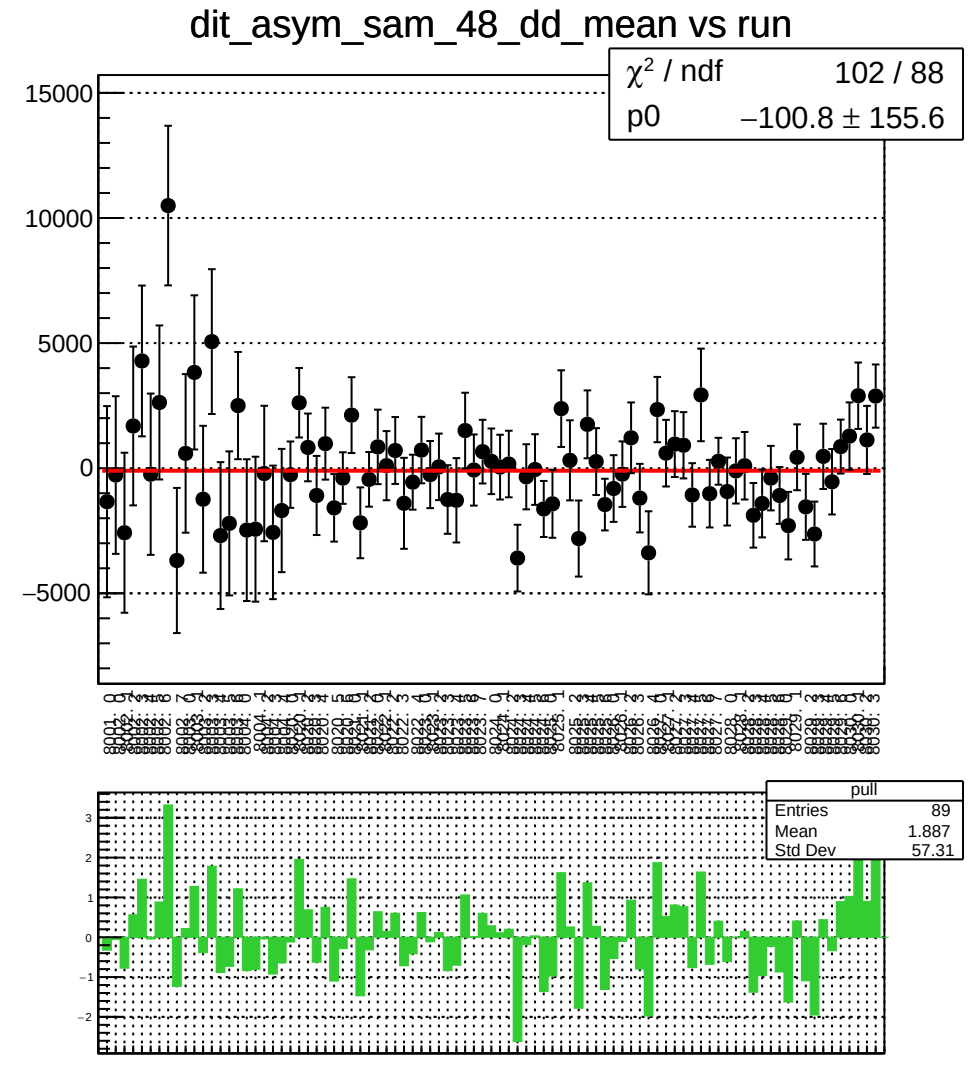

asym_sam_48_dd_cor_correction_rms vs run
χ² / ndf 8820 / 88
p0 1593 ± 1.212
1900
1800
1700
1600
1500
1400

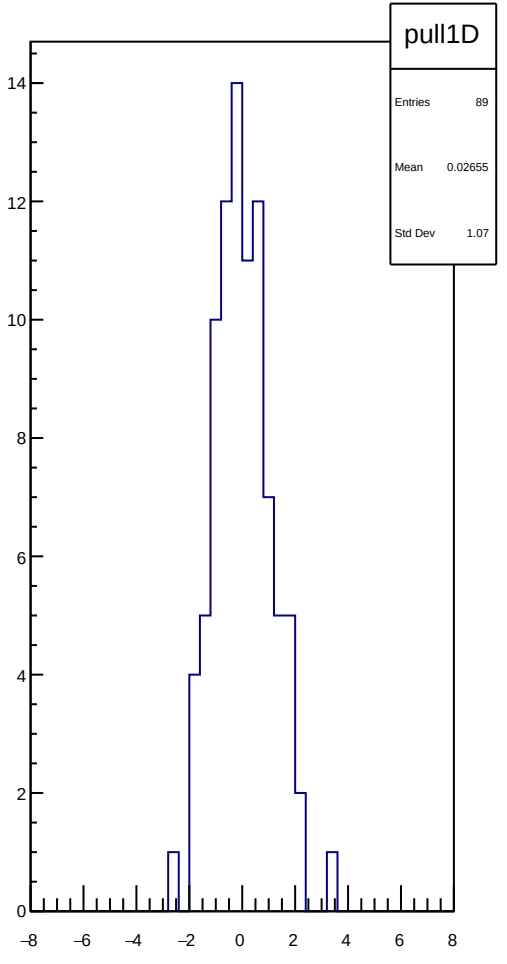

eigen_cor_asym_sam_48_dd_mean vs run
χ² / ndf 97.89 / 88
p0 −55.33 ± 136.3
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean −182.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean 0.01202
Std Dev 1.049
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

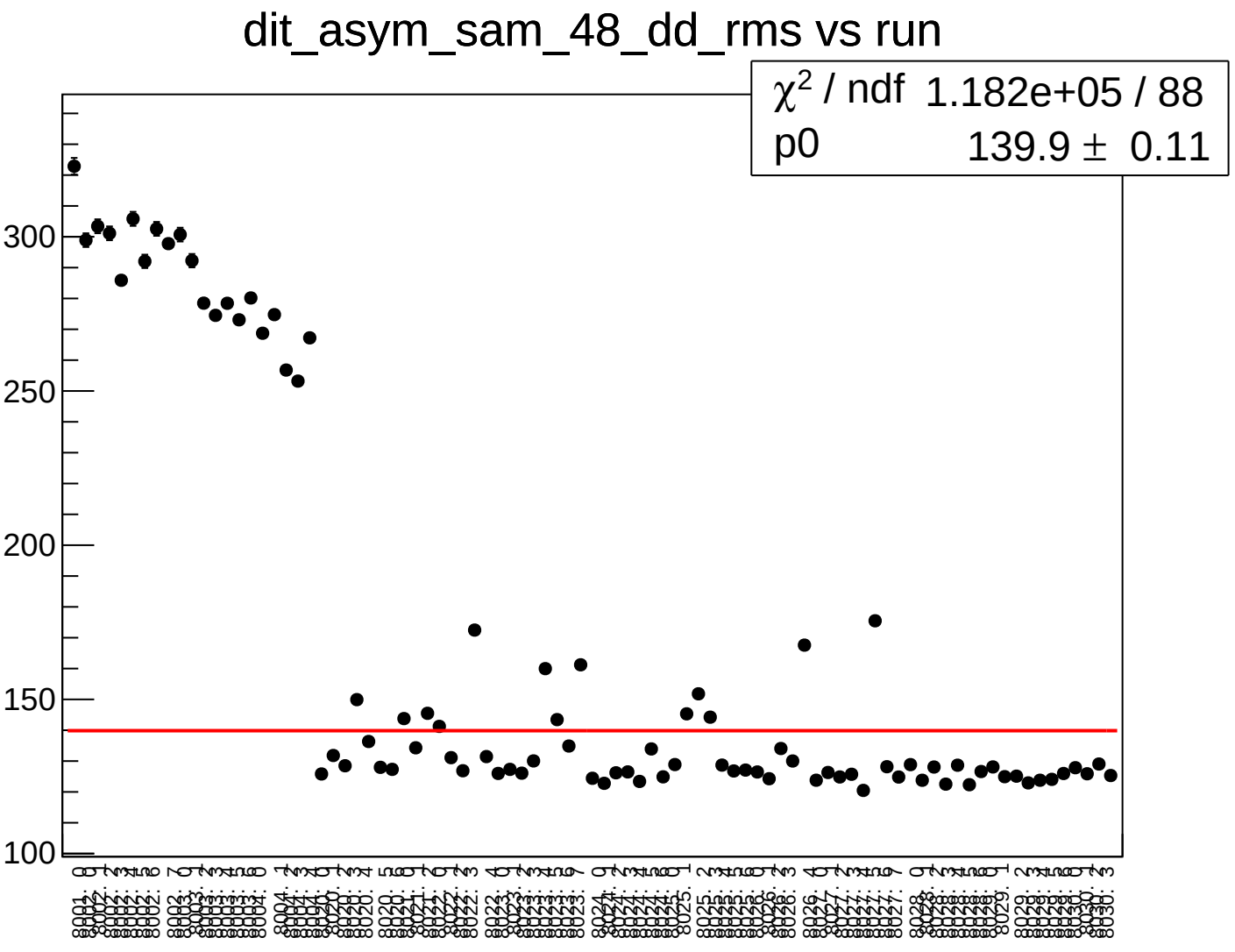

eigen_cor_asym_sam_48_dd_rms vs run
χ^2 / ndf 1.607e+04 / 88
p0 126.3 ± 0.09635
170
160
150
140
130
120
110

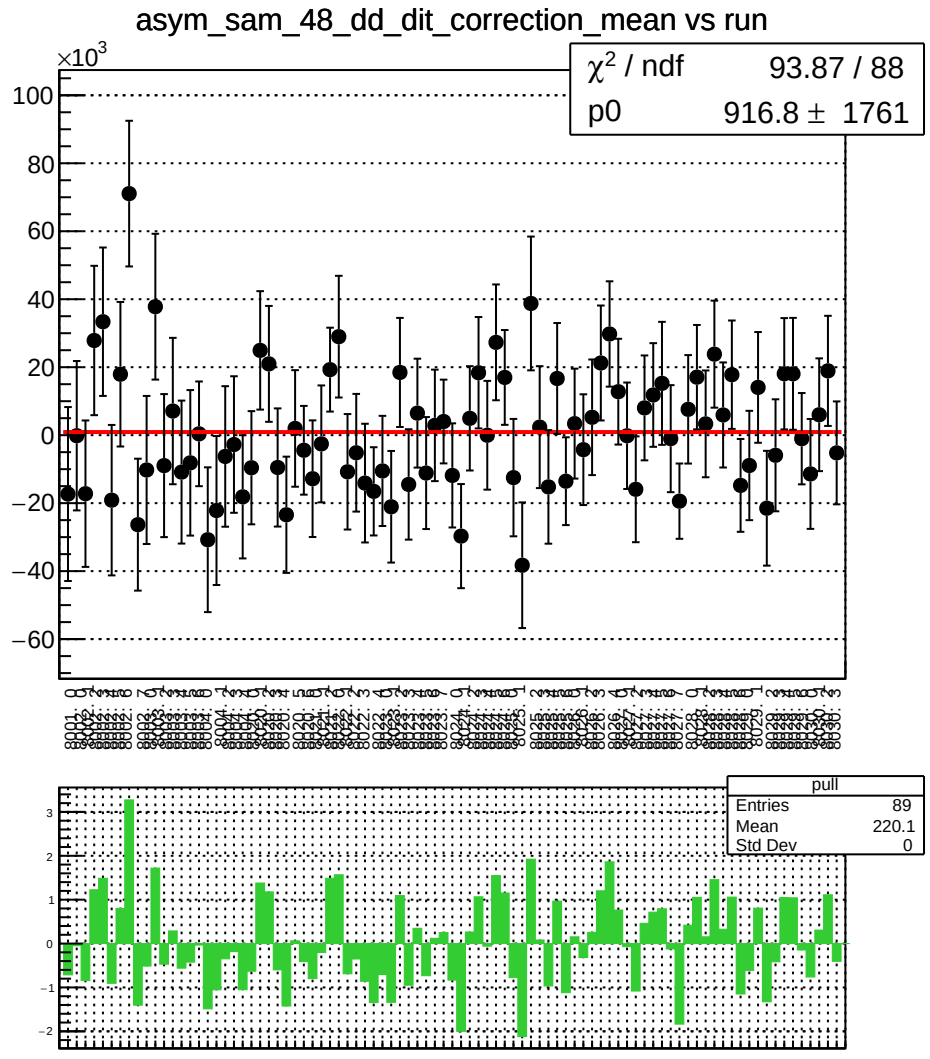

asym_sam_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 93.23 / 88
p0 853.6 ± 1715
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 204.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.0133
Std Dev 1.023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

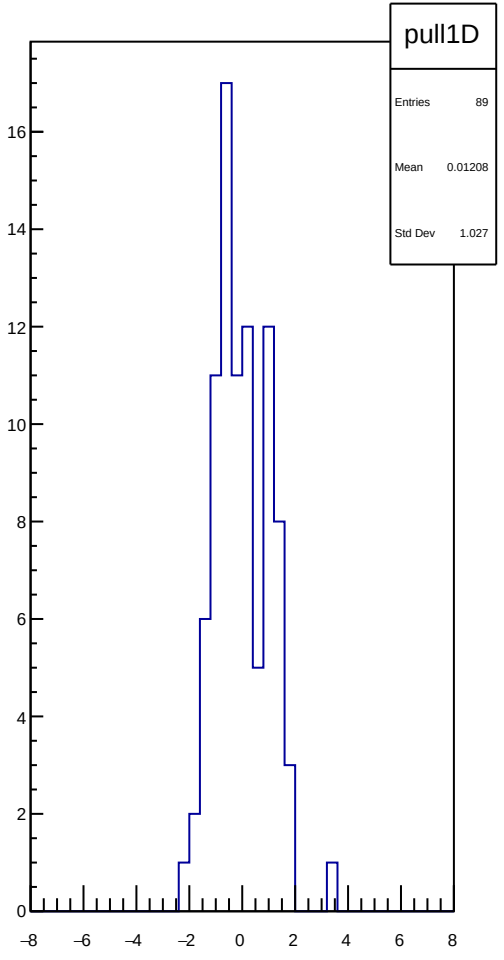

asym_sam_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 8820 / 88
p0 1593 ± 1.212
1900
1800
1700
1600
1500
1400

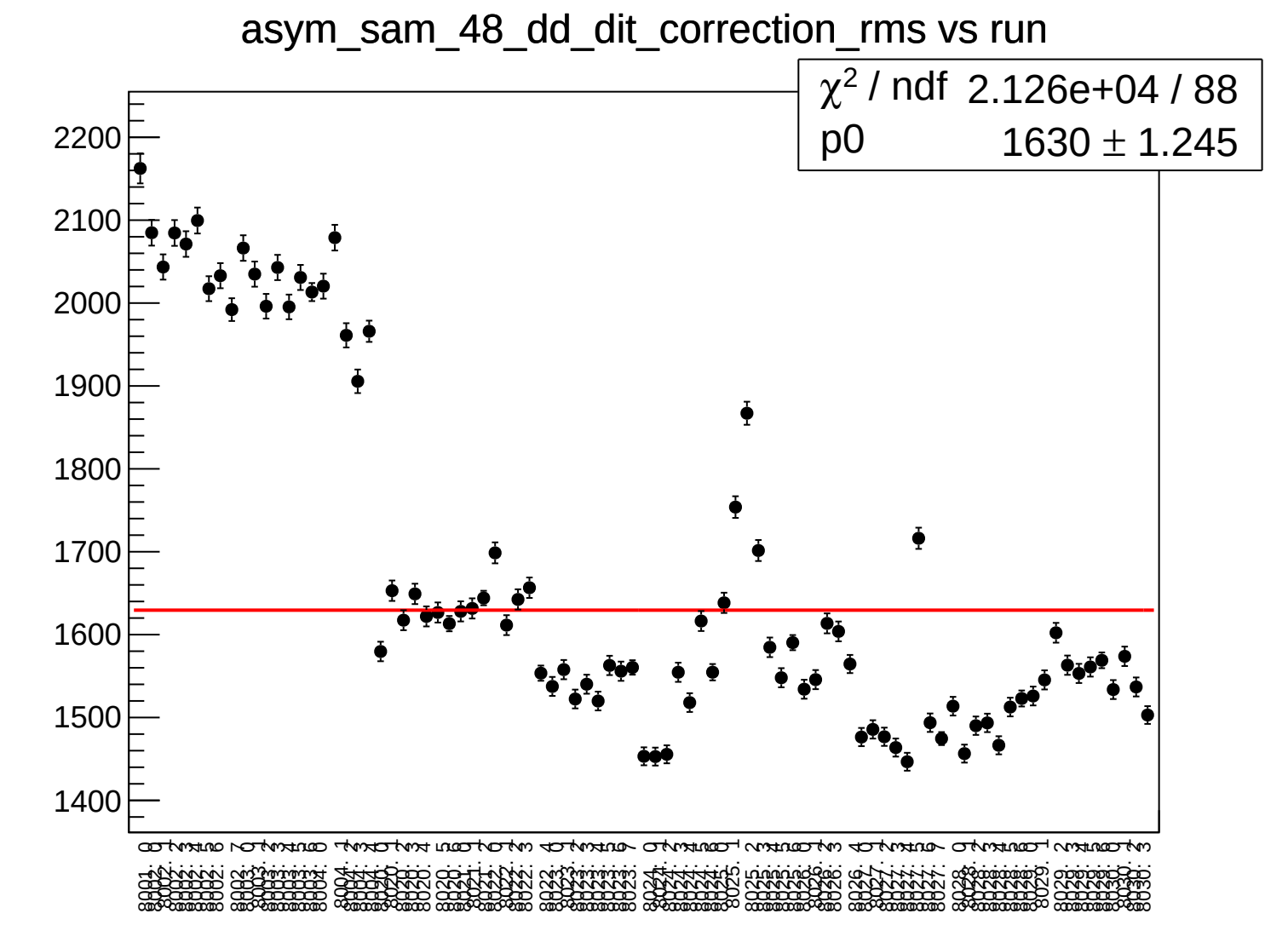

dit_asym_sam_48_dd_mean vs run
χ² / ndf 102 / 88
p0 −100.8 ± 155.6
15000
10000
5000
0
−5000
pull
Entries 89
Mean 1.887
Std Dev 57.31
3
2
1
0
−1
−2

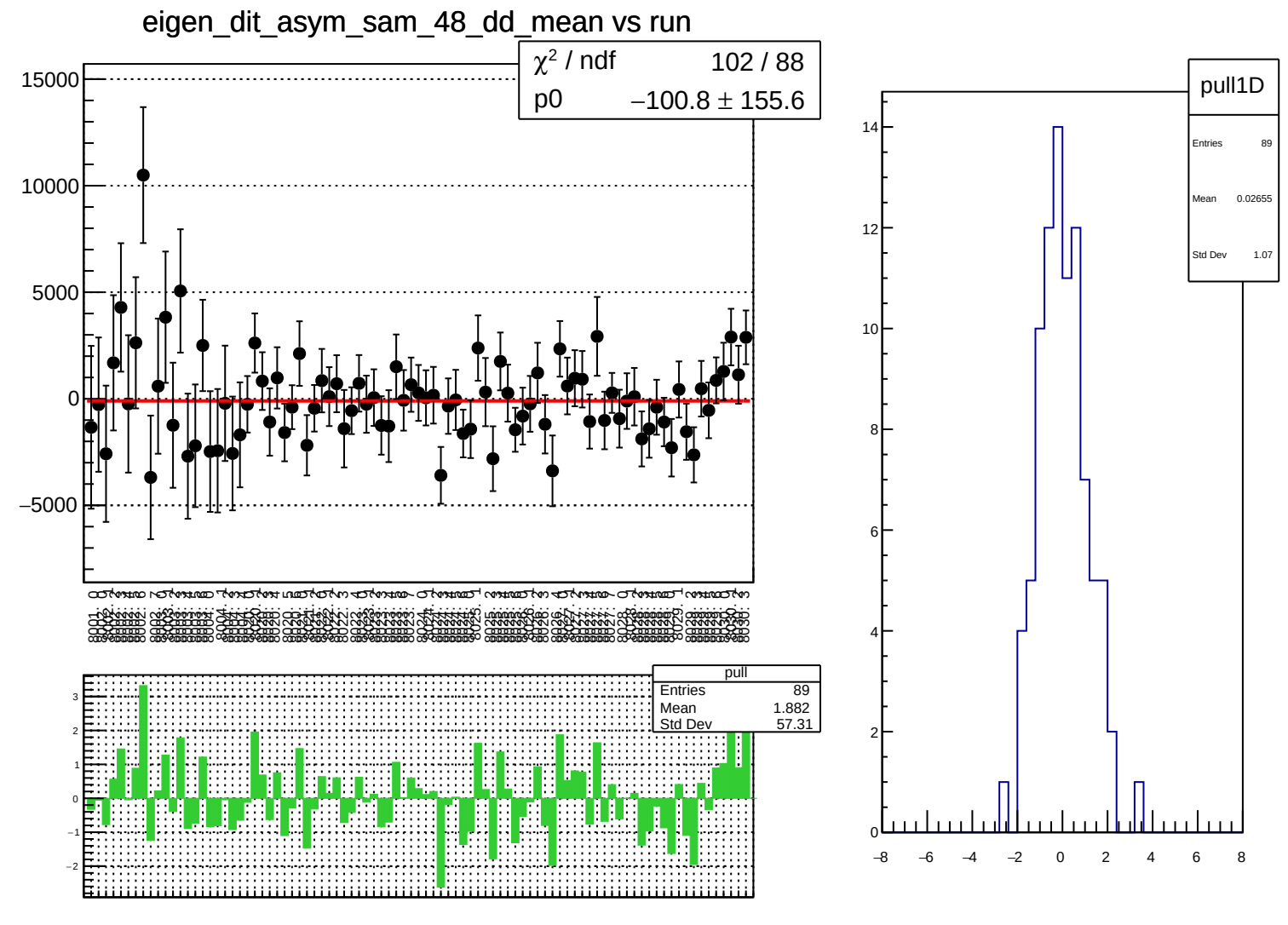

pull1D
Entries 89
Mean 0.02655
Std Dev 1.07
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

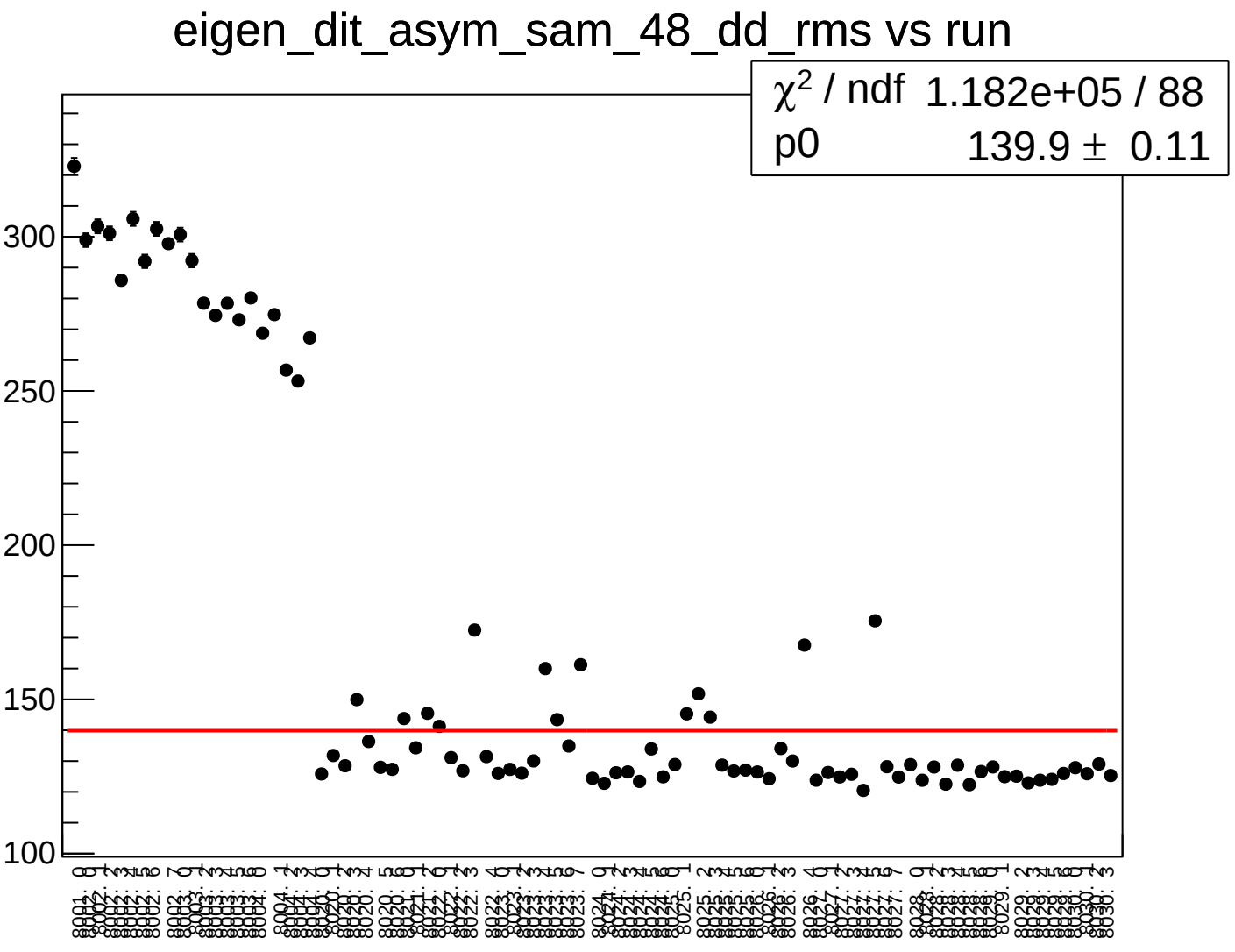

dit_asym_sam_48_dd_rms vs run
χ² / ndf 1.182e+05 / 88
p0 139.9 ± 0.11
300
250
200
150
100

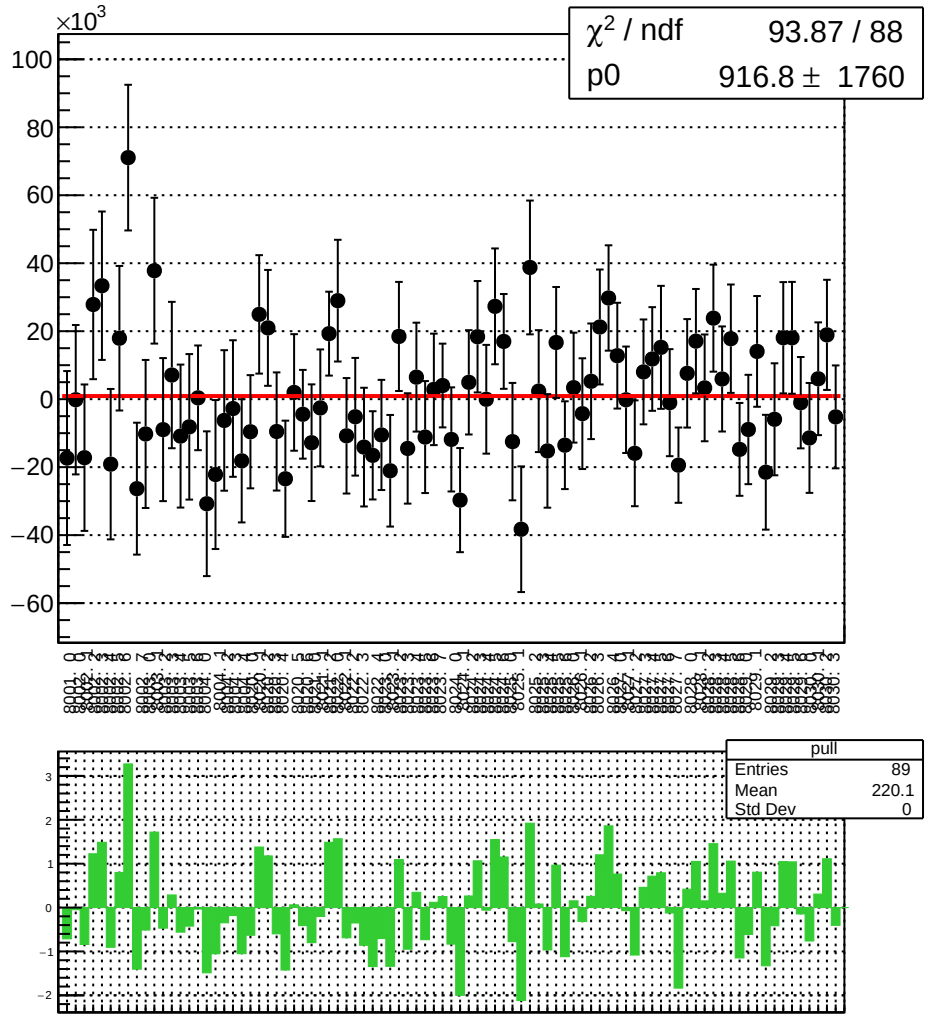

asym_sam_48_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 93.87 / 88
p0 916.8 ± 1761
pull
Entries 89
Mean 220.1
Std Dev 0

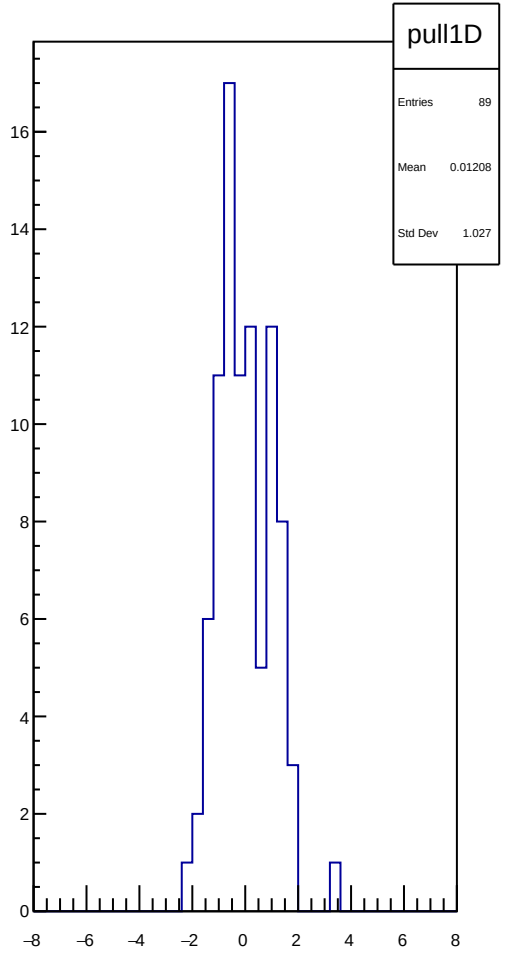

pull1D
Entries 89
Mean 0.01208
Std Dev 1.027

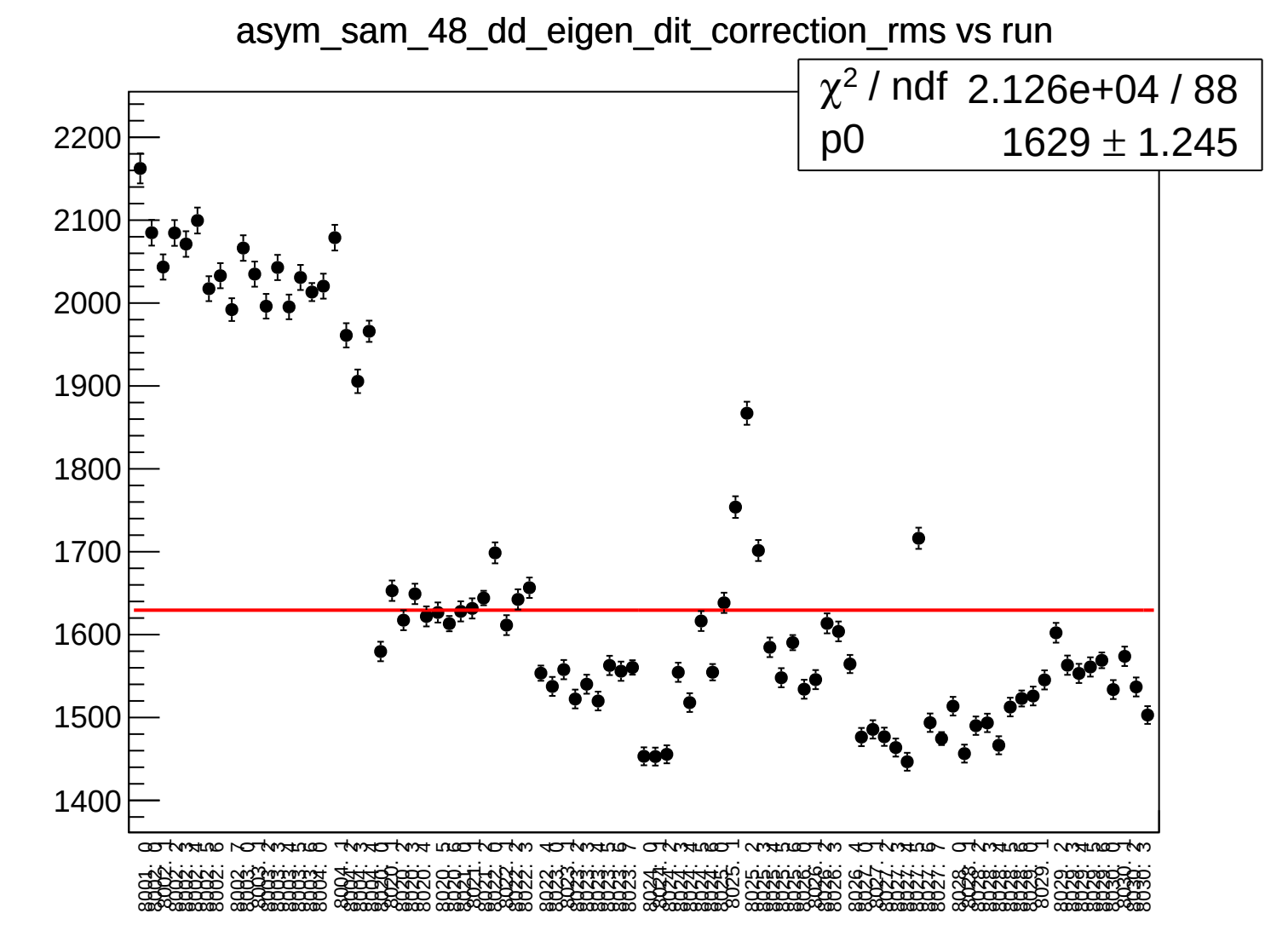

asym_sam_48_dd_dit_correction_rms vs run
χ² / ndf 2.126e+04 / 88
p0 1630 ± 1.245
2200
2100
2000
1900
1800
1700
1600
1500
1400

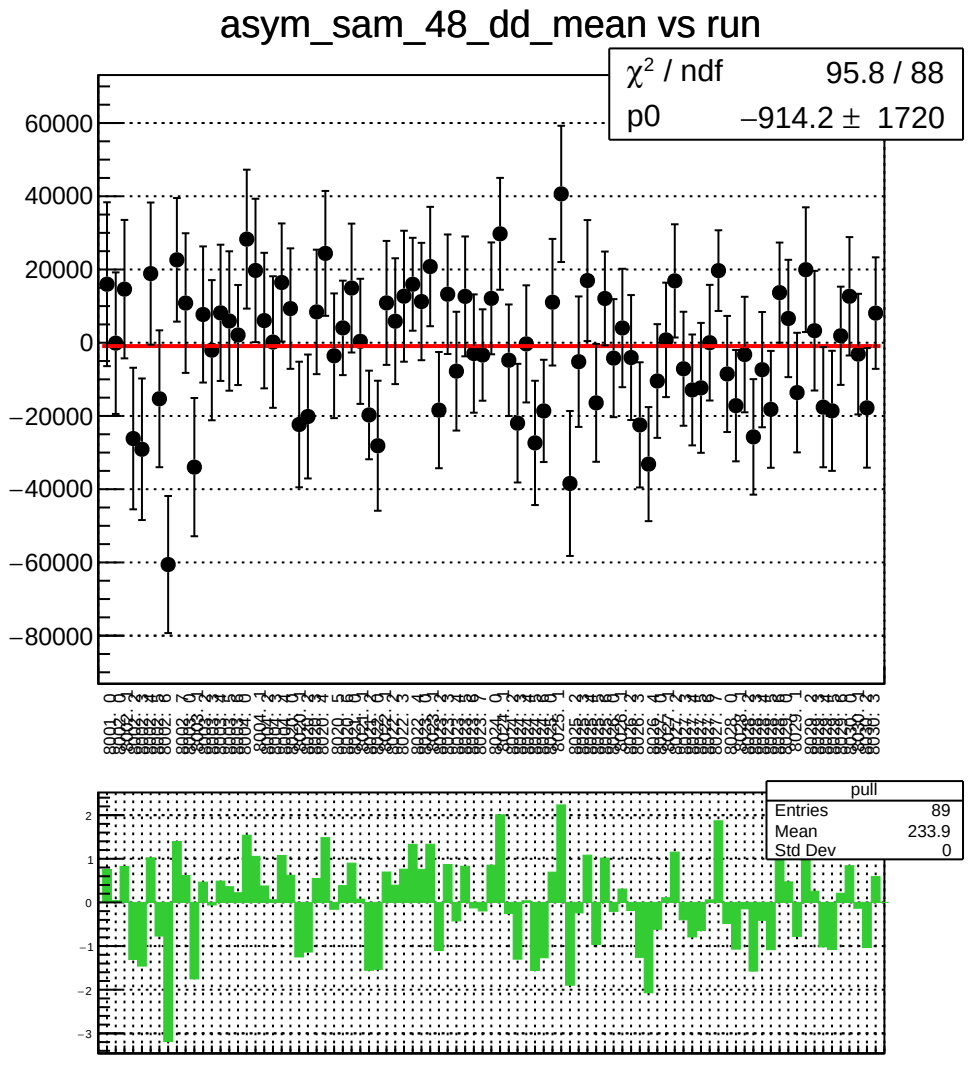

eigen_dit_asym_sam_48_dd_mean vs run
χ² / ndf 102 / 88
p0 −100.8 ± 155.6
15000
10000
5000
0
−5000
pull
Entries 89
Mean 1.882
Std Dev 57.31
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.02655
Std Dev 1.07
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

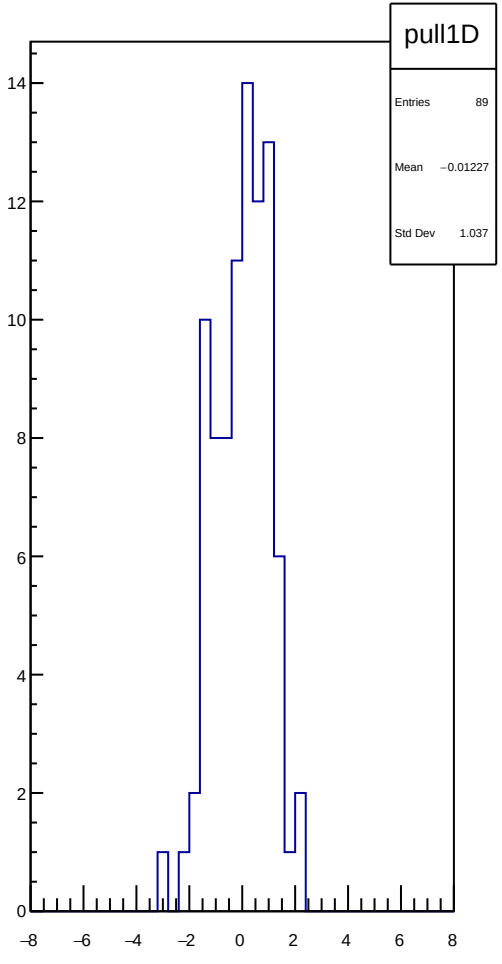

eigen_dit_asym_sam_48_dd_rms vs run
χ² / ndf 1.182e+05 / 88
p0 139.9 ± 0.11
300
250
200
150
100

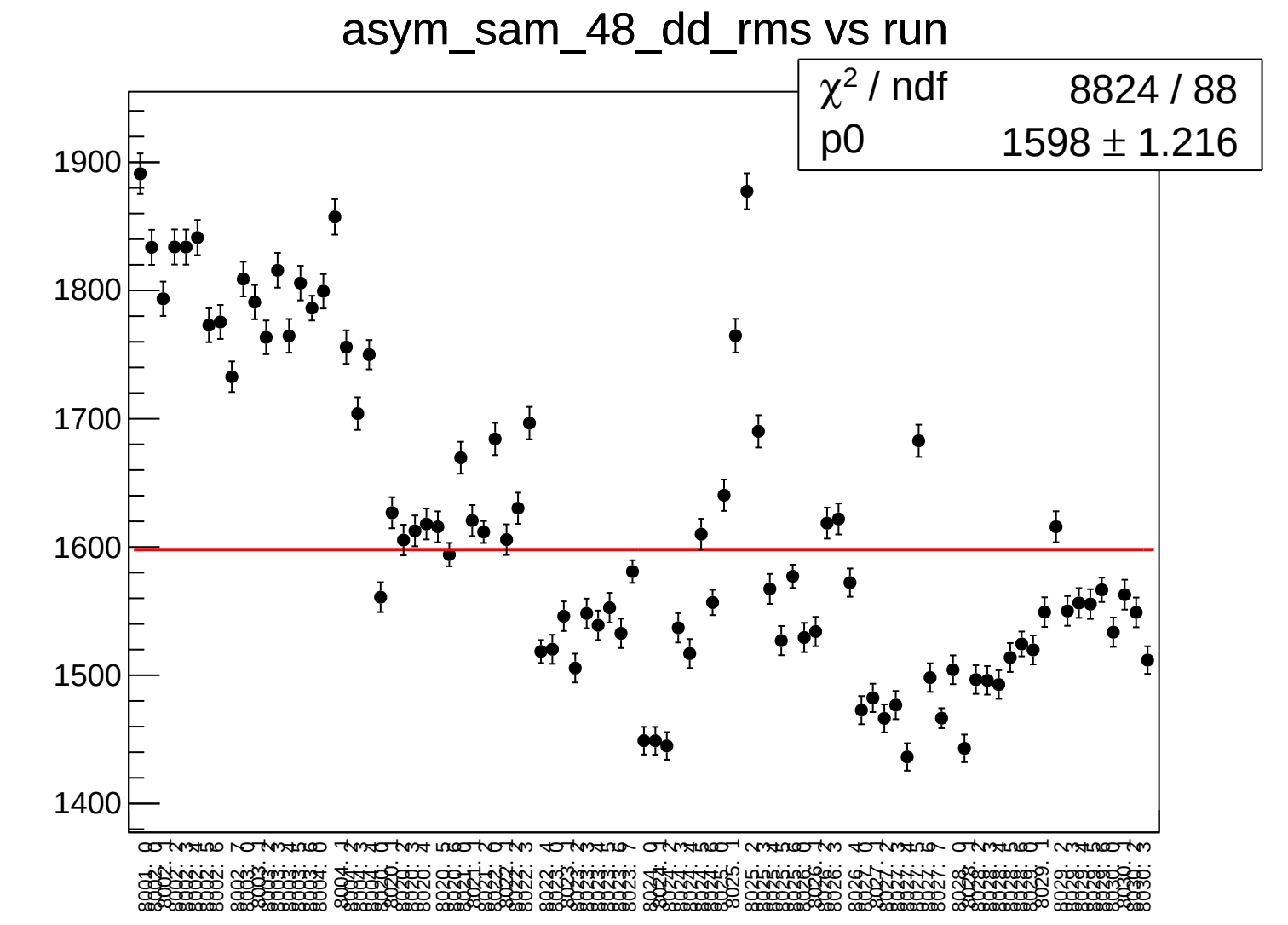

asym_sam_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 93.87 / 88
p0 916.8 ± 1760
×10³
pull
Entries 89
Mean 220.1
Std Dev 0

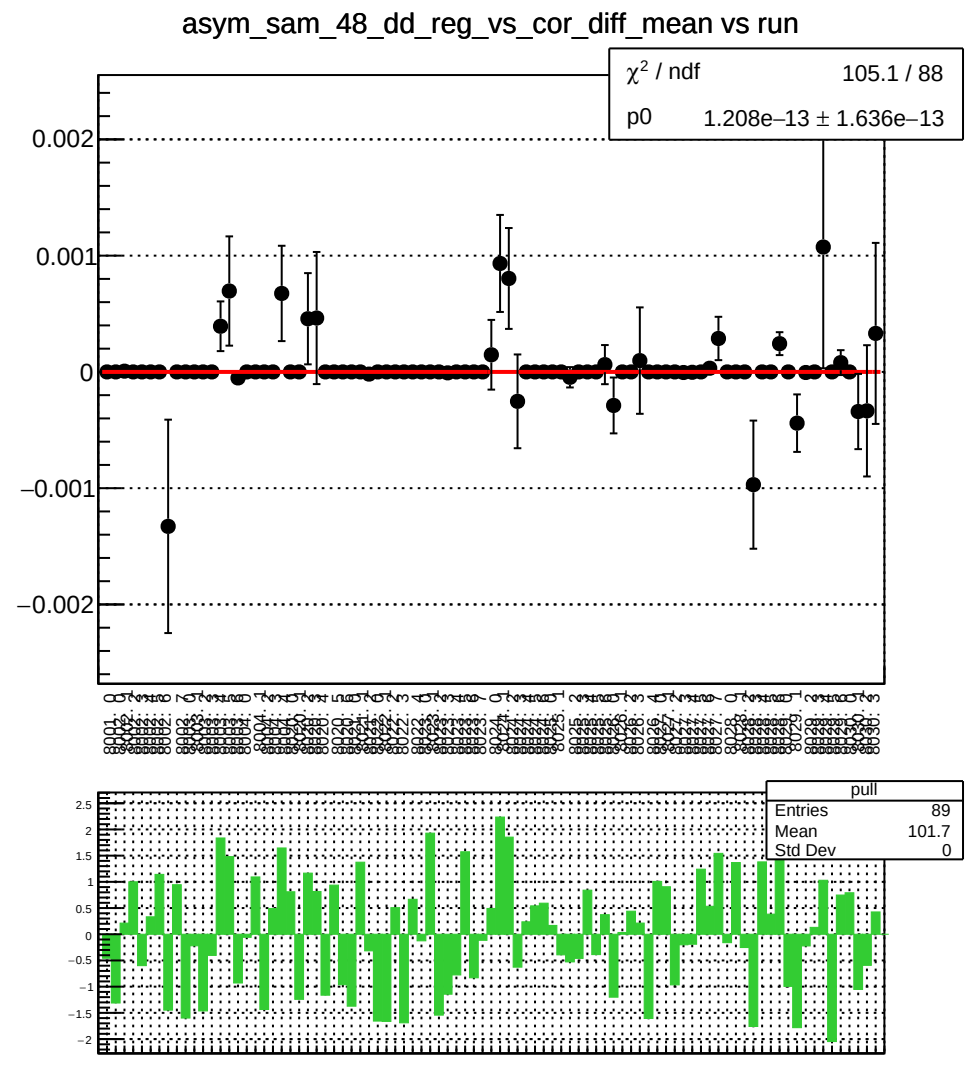

pull1D
Entries 89
Mean 0.01208
Std Dev 1.027

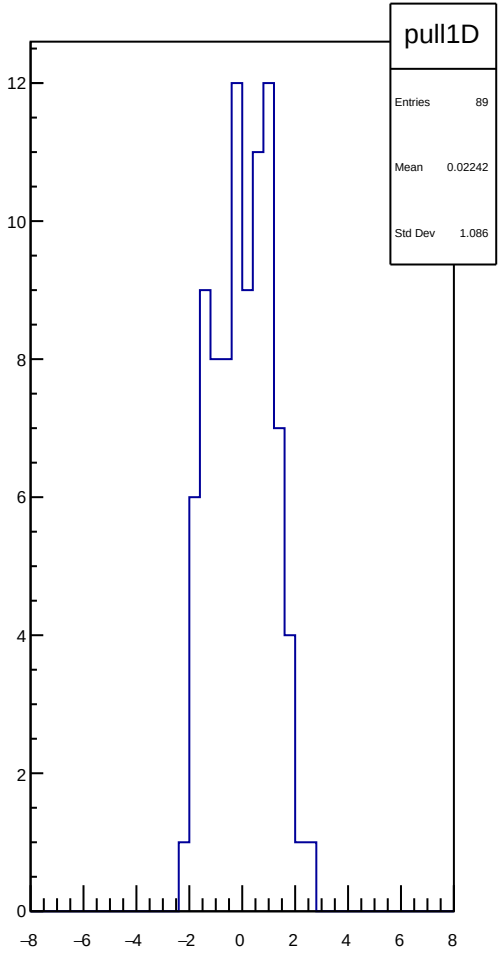

asym_sam_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.126e+04 / 88
p0 1629 ± 1.245
2200
2100
2000
1900
1800
1700
1600
1500
1400

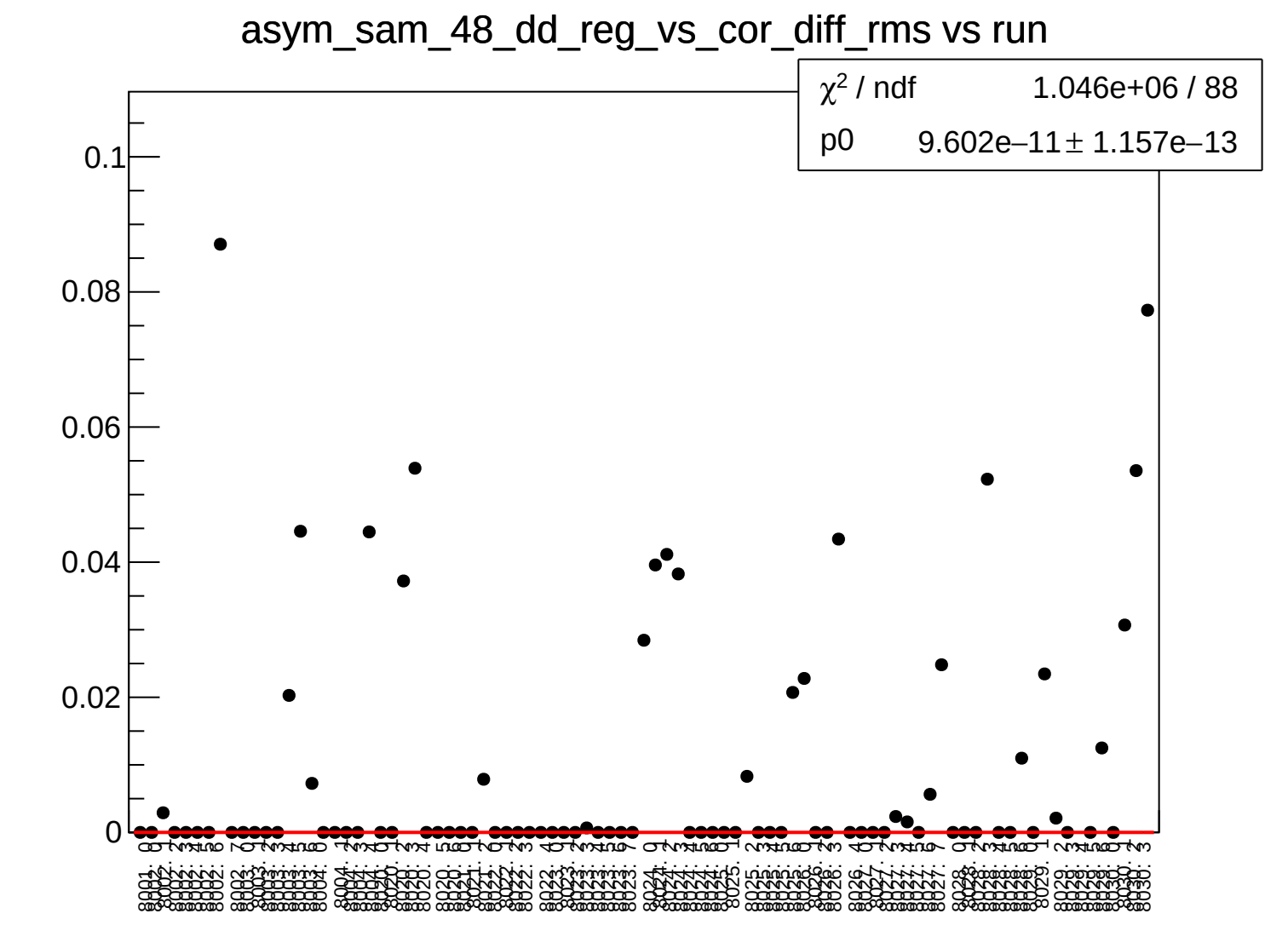

asym_sam_48_dd_mean vs run
χ² / ndf 95.8 / 88
p0 −914.2 ± 1720
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean 233.9
Std Dev 0
2
1
0
−1
−2
−3

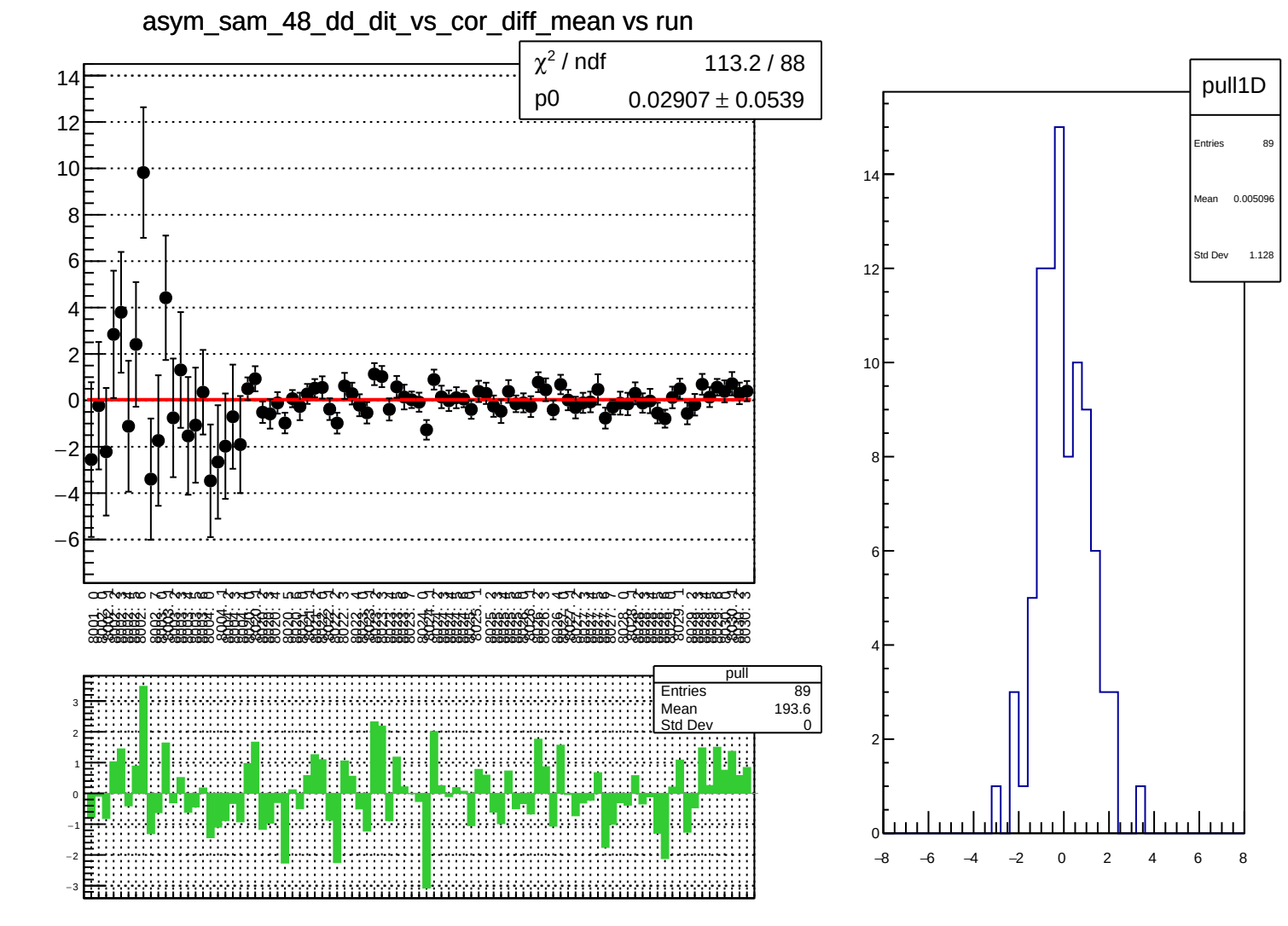

pull1D
Entries 89
Mean −0.01227
Std Dev 1.037
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

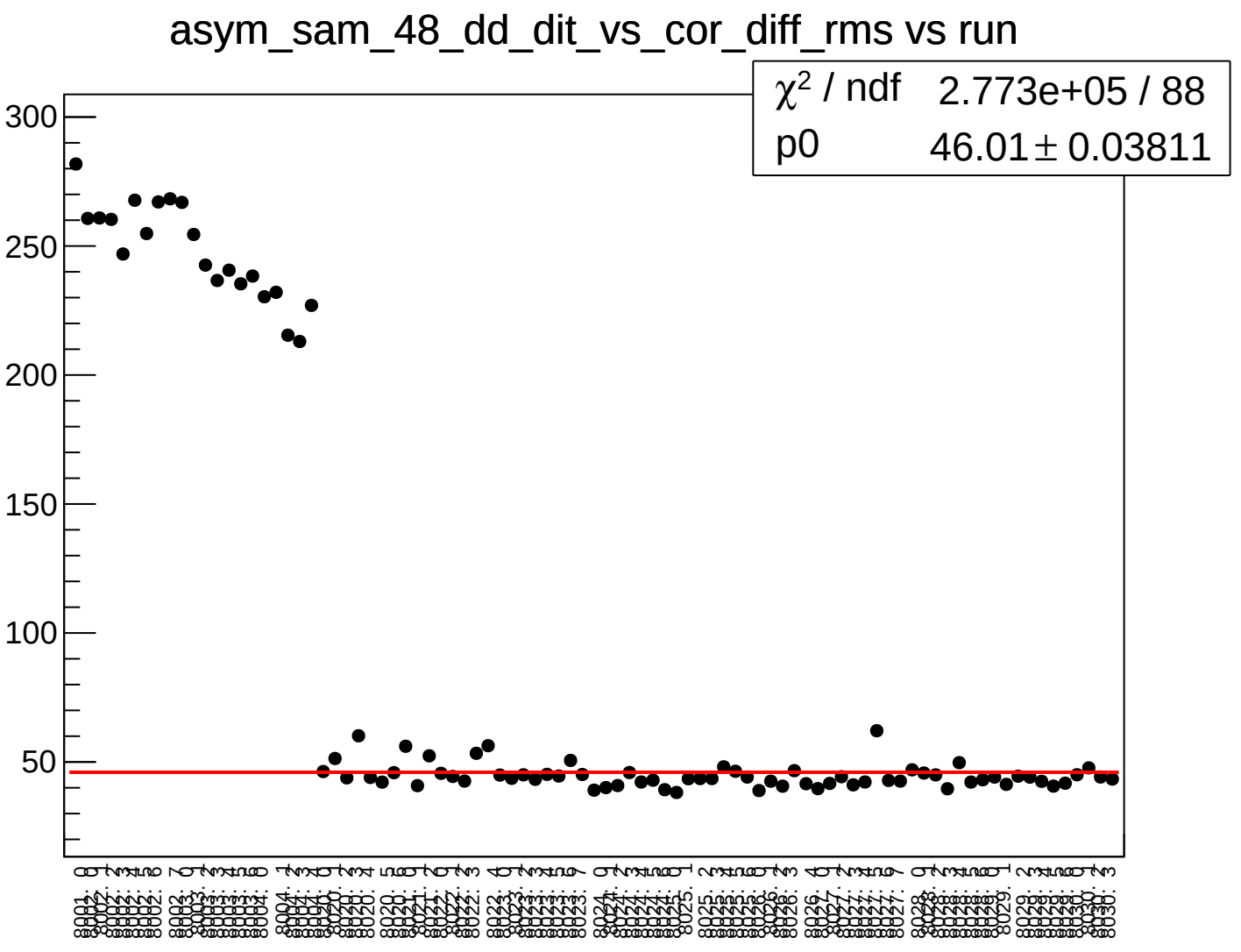

asym_sam_48_dd_rms vs run
χ² / ndf 8824 / 88
p0 1598 ± 1.216
1900
1800
1700
1600
1500
1400

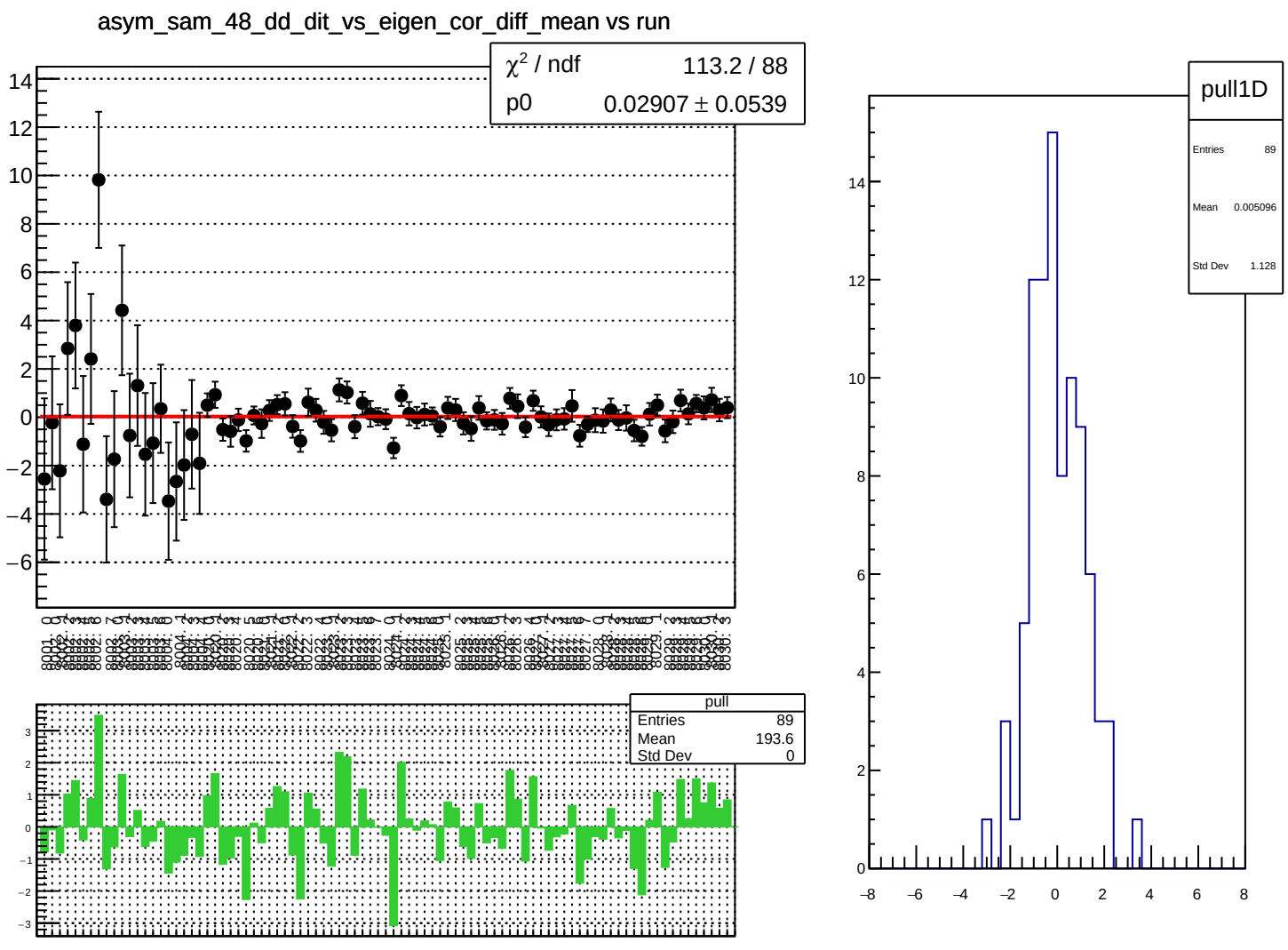

asym_sam_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 105.1 / 88
p0 1.208e−13 ± 1.636e−13
0.002
0.001
0
−0.001
−0.002
pull
Entries 89
Mean 101.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

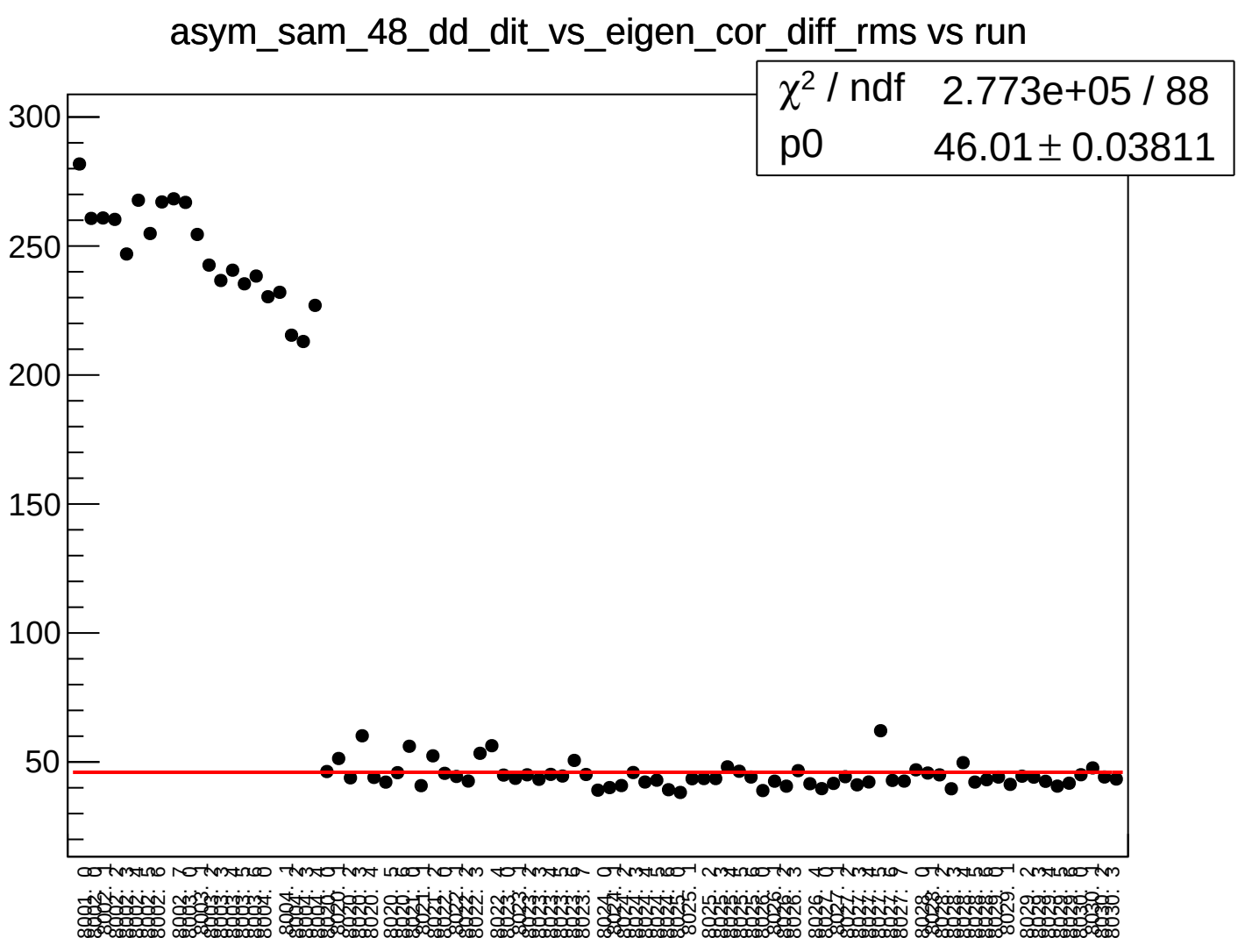

pull1D
Entries 89
Mean 0.02242
Std Dev 1.086
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

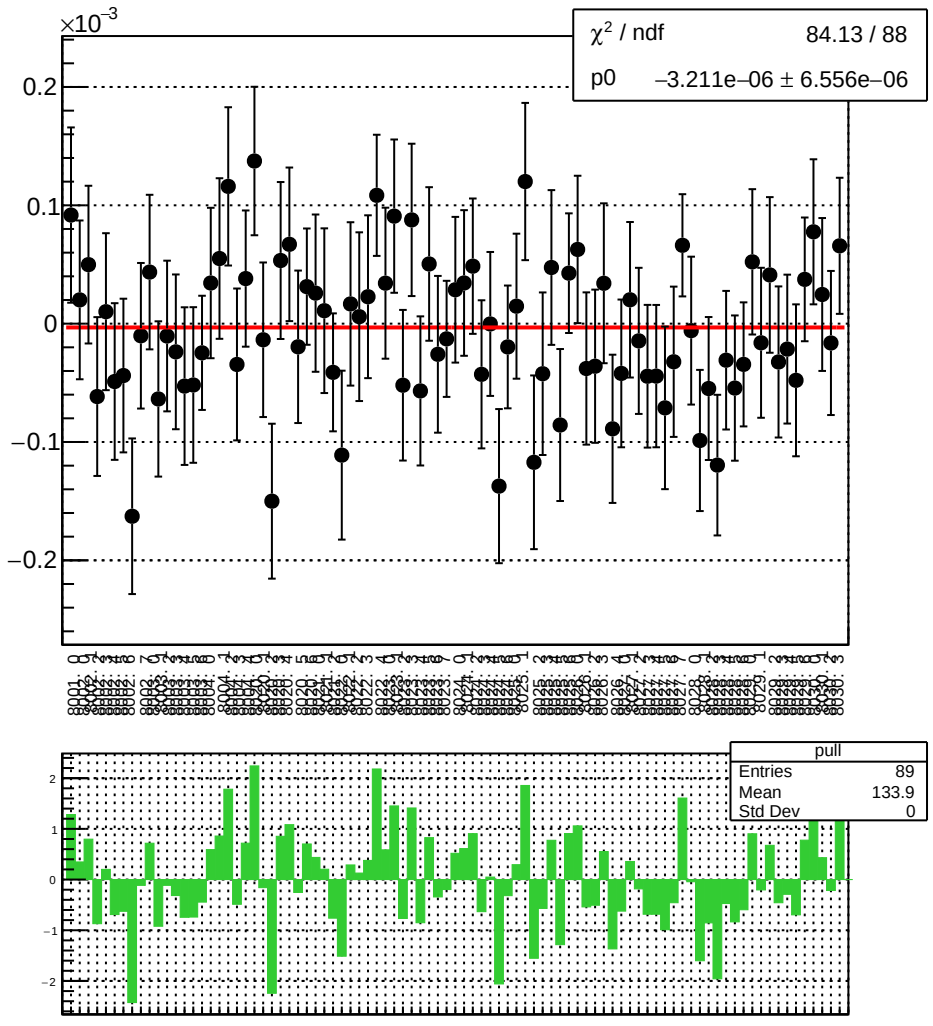

asym_sam_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.046e+06 / 88
p0 9.602e−11 ± 1.157e−13
0.1
0.08
0.06
0.04
0.02
0

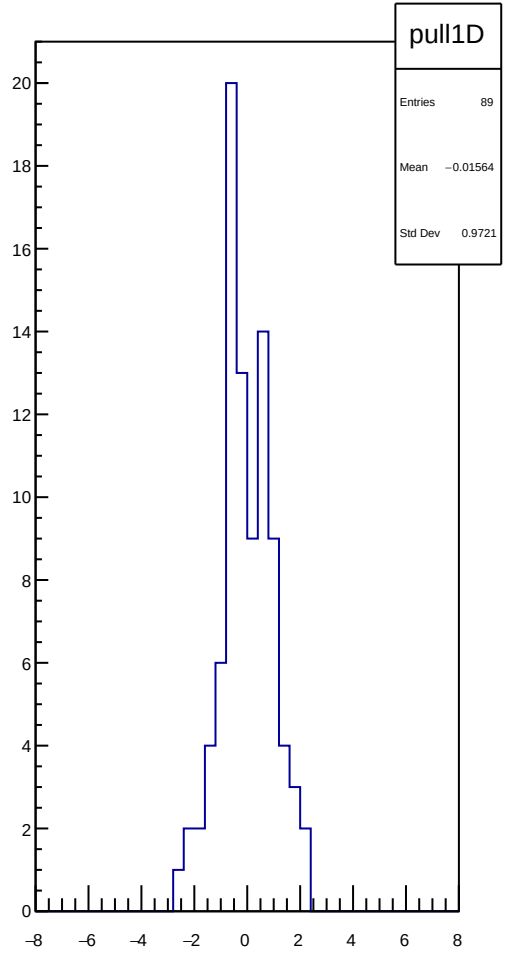

asym_sam_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 113.2 / 88
p0 0.02907 ± 0.0539
pull
Entries 89
Mean 193.6
Std Dev 0
pull1D
Entries 89
Mean 0.005096
Std Dev 1.128

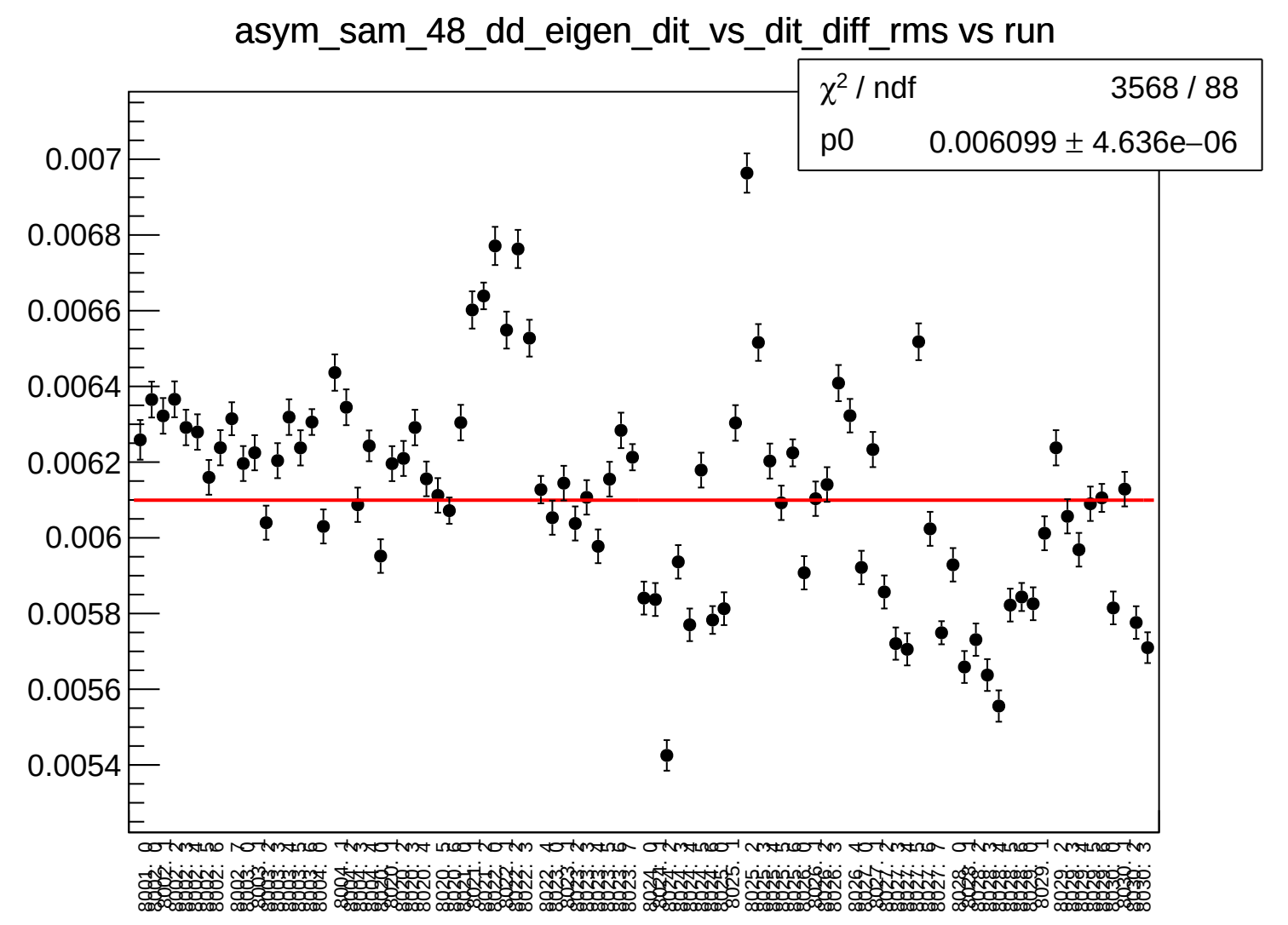

asym_sam_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.773e+05 / 88
p0 46.01 ± 0.03811
300
250
200
150
100
50

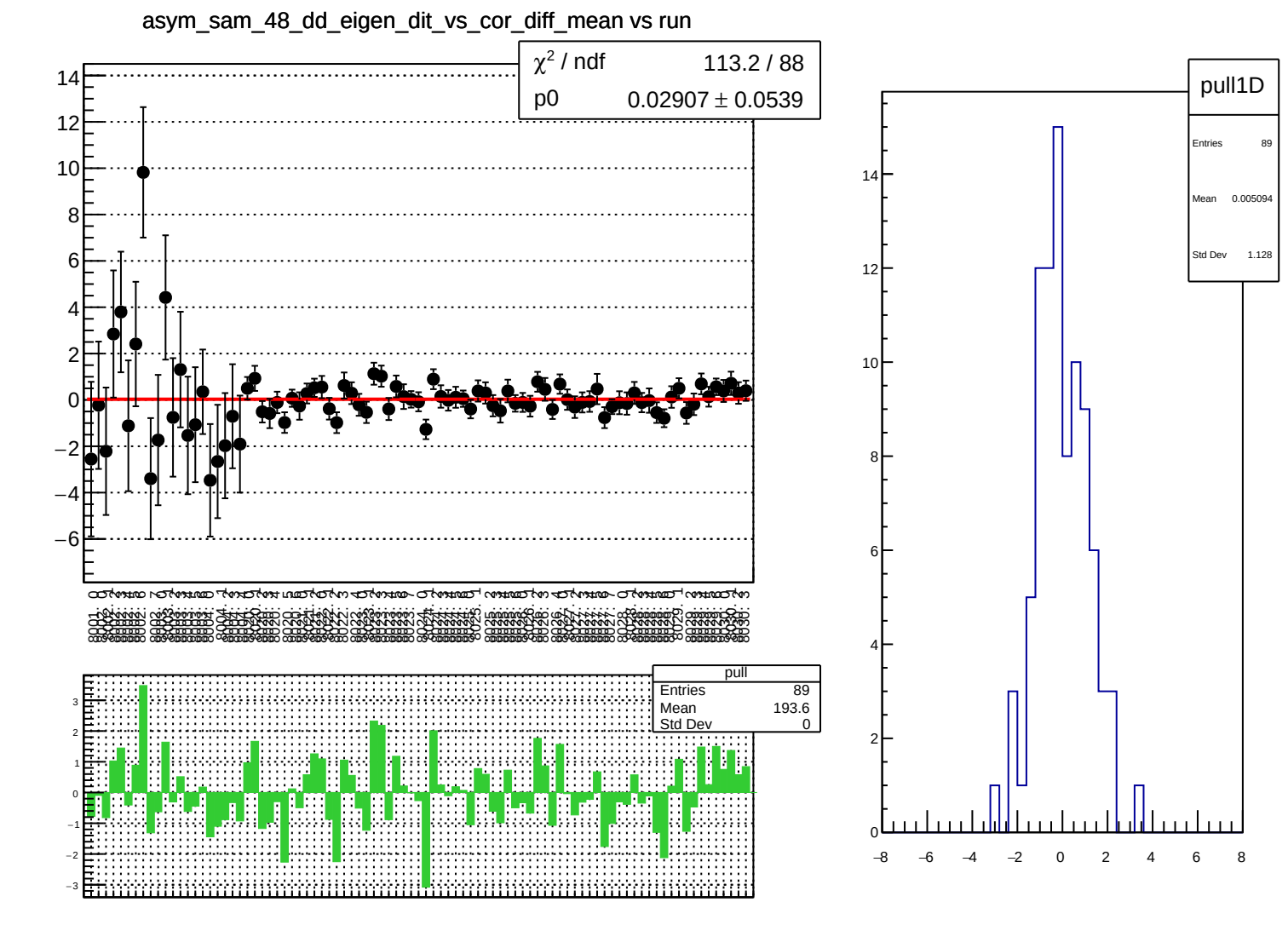

asym_sam_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 113.2 / 88
p0 0.02907 ± 0.0539
pull
Entries 89
Mean 193.6
Std Dev 0
pull1D
Entries 89
Mean 0.005096
Std Dev 1.128

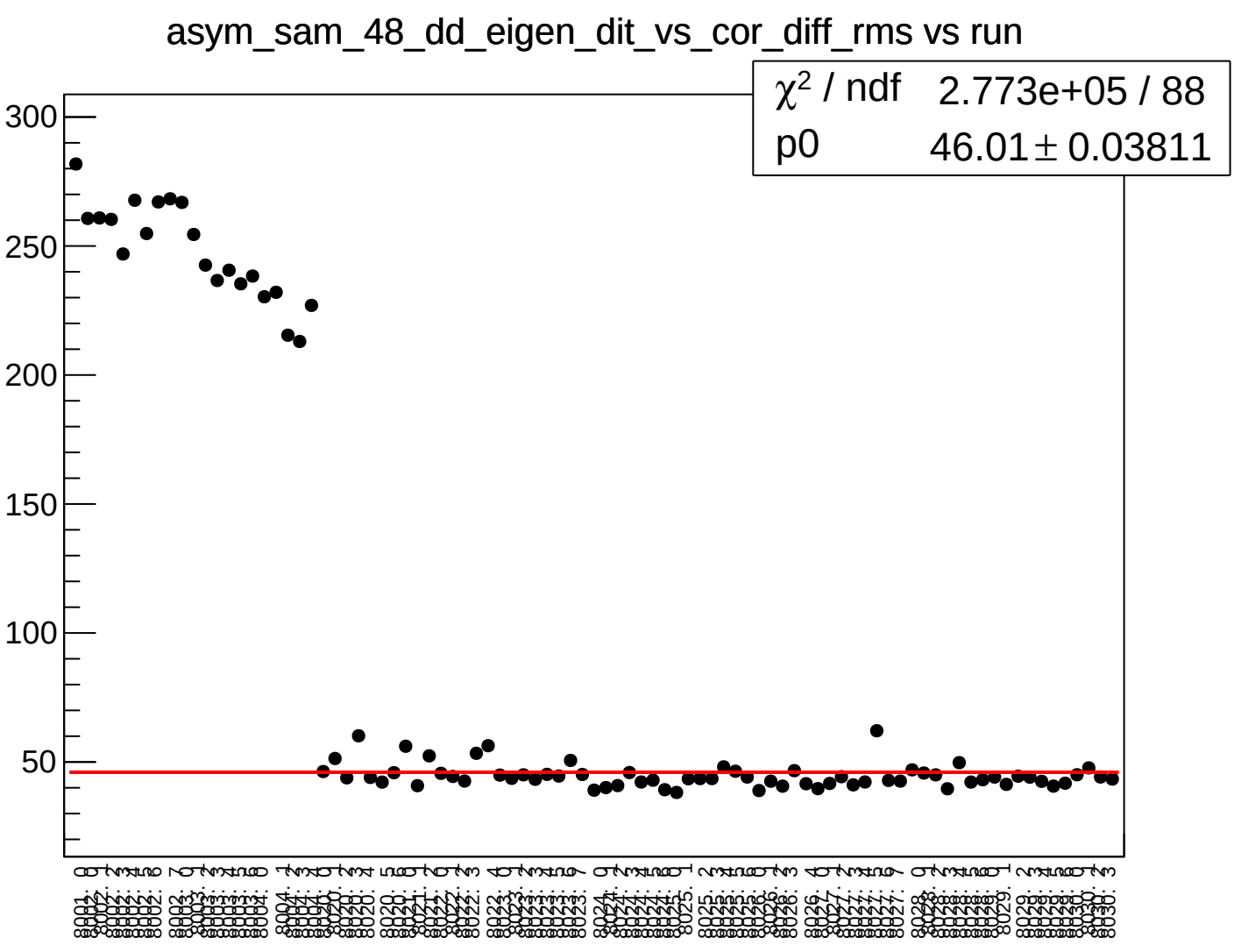

asym_sam_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.773e+05 / 88
p0 46.01 ± 0.03811
300
250
200
150
100
50

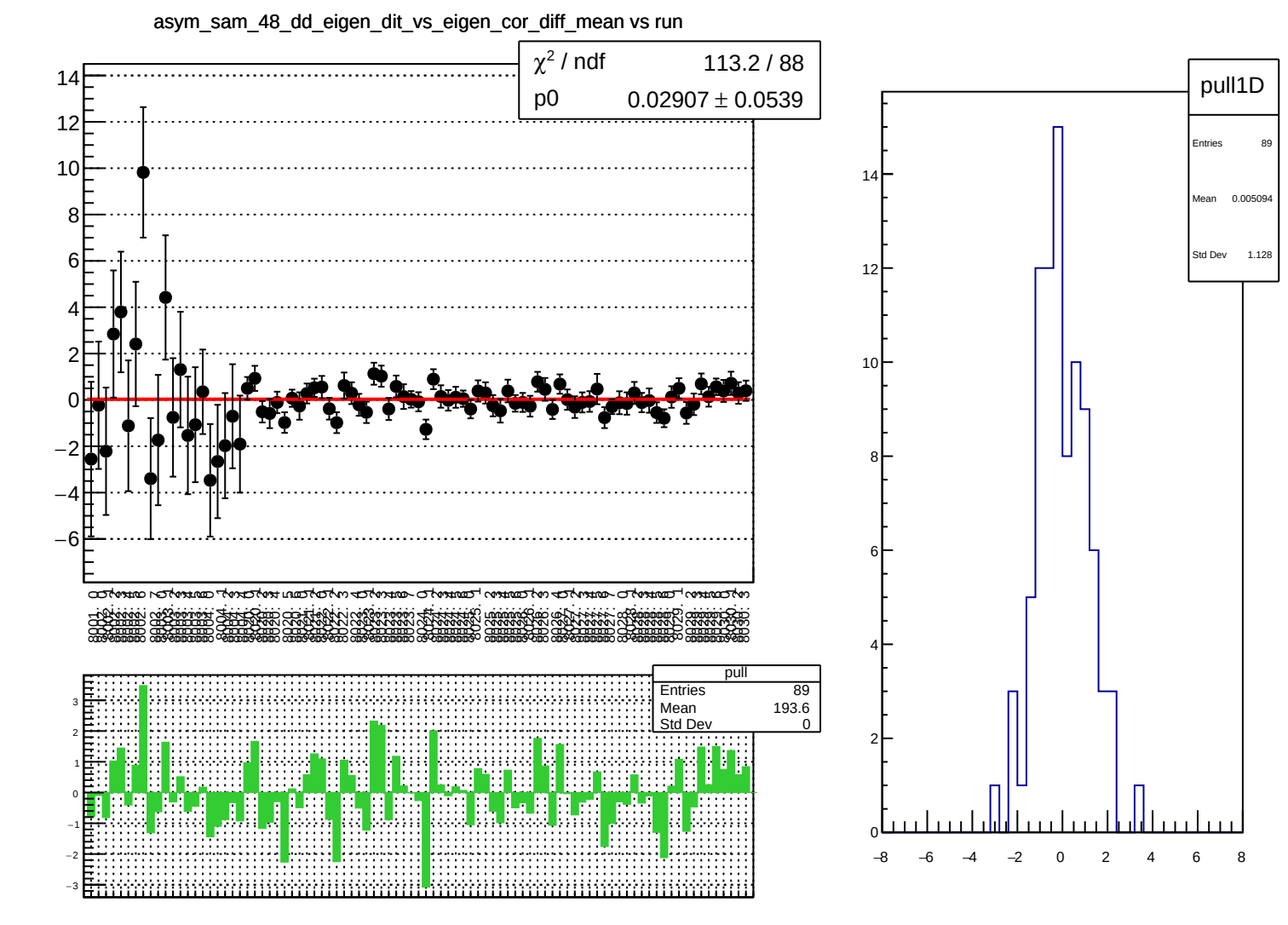

asym_sam_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.13 / 88
p0 −3.211e−06 ± 6.556e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 89
Mean 133.9
Std Dev 0
2
1
0
−1
−2

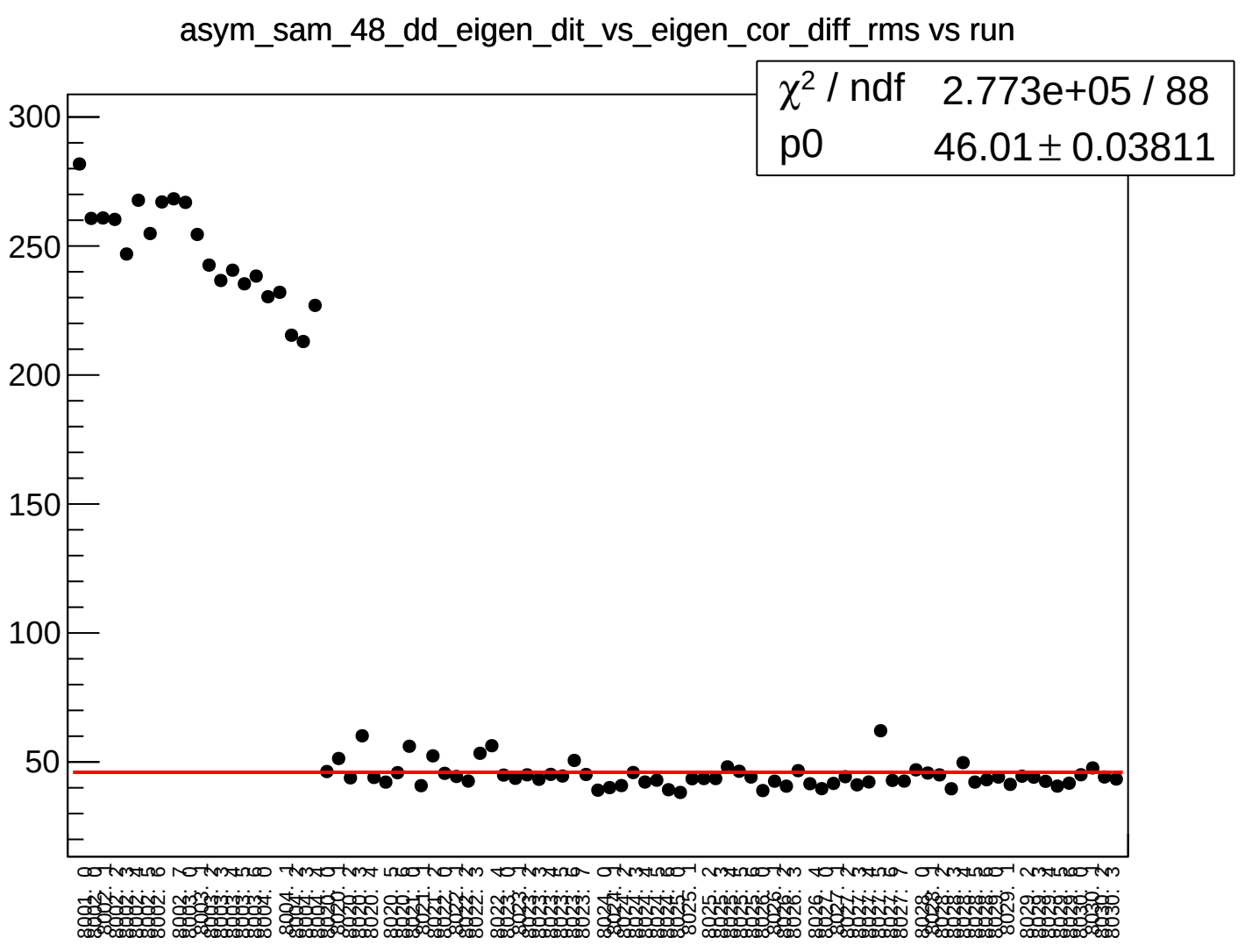

pull1D
Entries 89
Mean −0.01564
Std Dev 0.9721
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

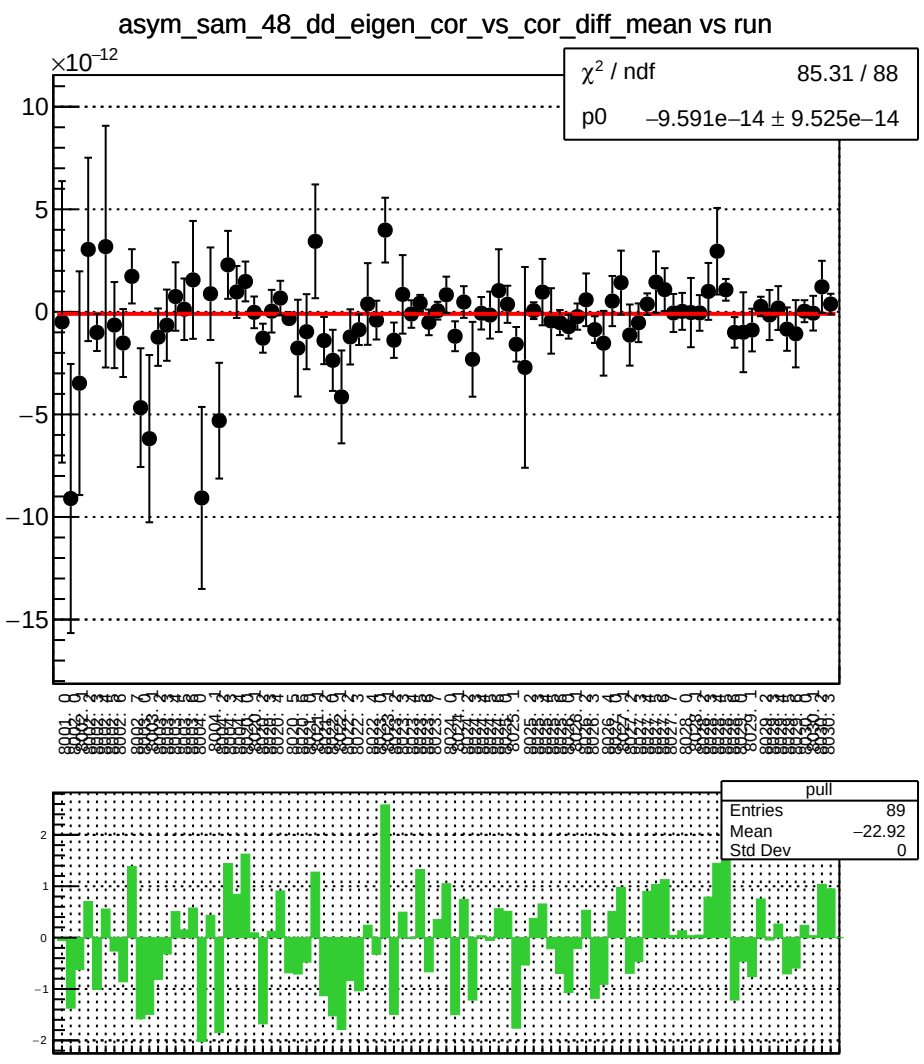

asym_sam_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3568 / 88
p0 0.006099 ± 4.636e−06
0.007
0.0068
0.0066
0.0064
0.0062
0.006
0.0058
0.0056
0.0054

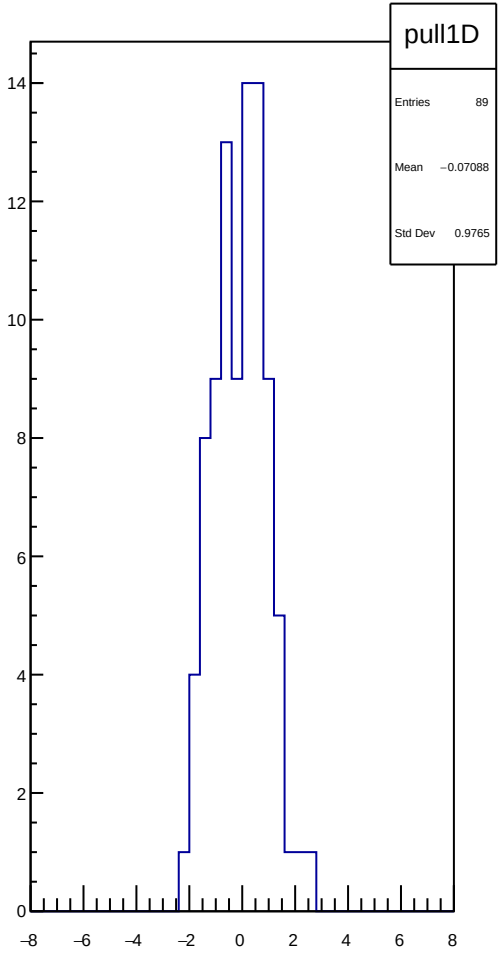

asym_sam_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 113.2 / 88
p0 0.02907 ± 0.0539
pull
Entries 89
Mean 193.6
Std Dev 0
pull1D
Entries 89
Mean 0.005094
Std Dev 1.128

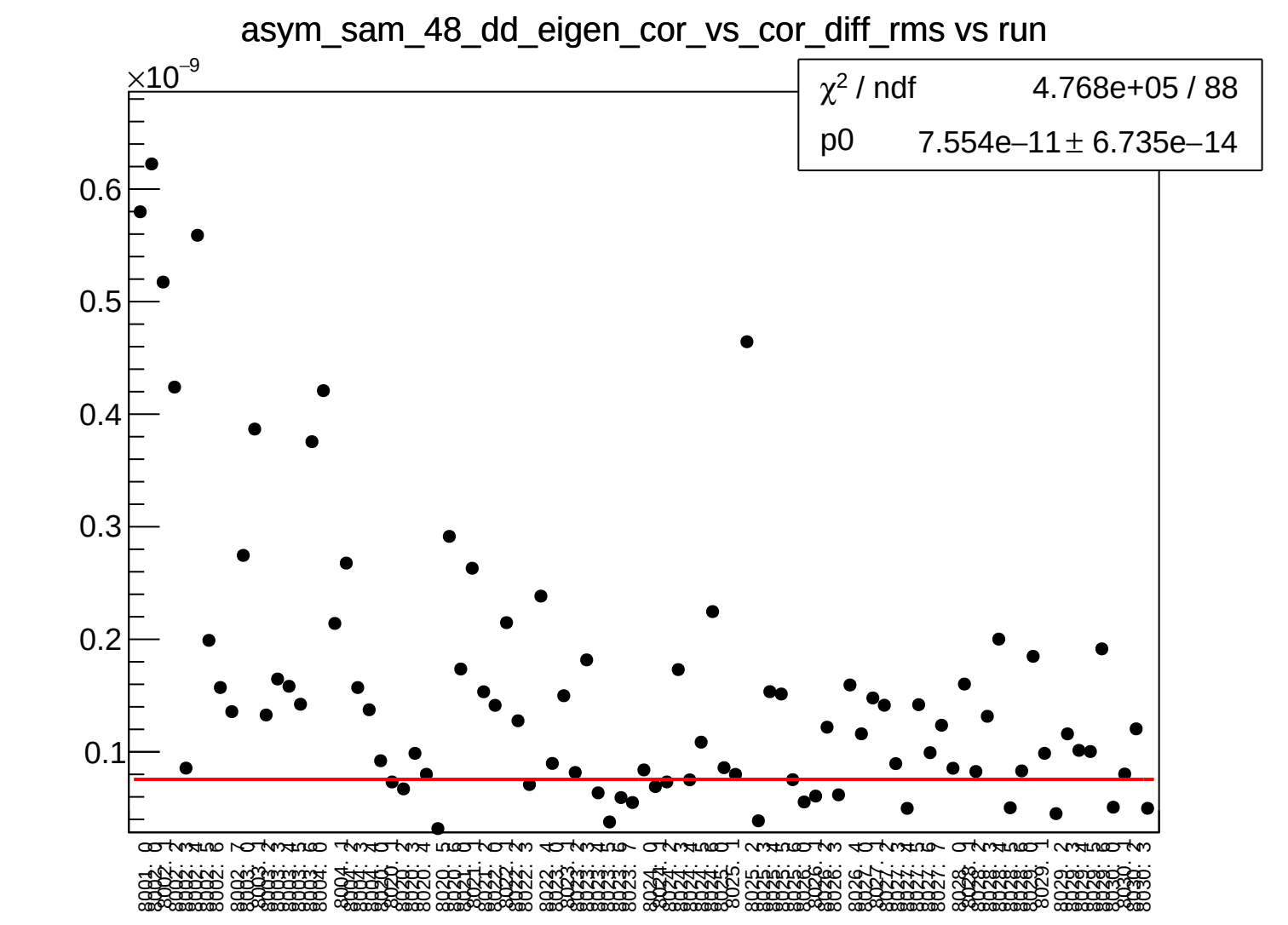

asym_sam_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.773e+05 / 88
p0 46.01 ± 0.03811
300
250
200
150
100
50

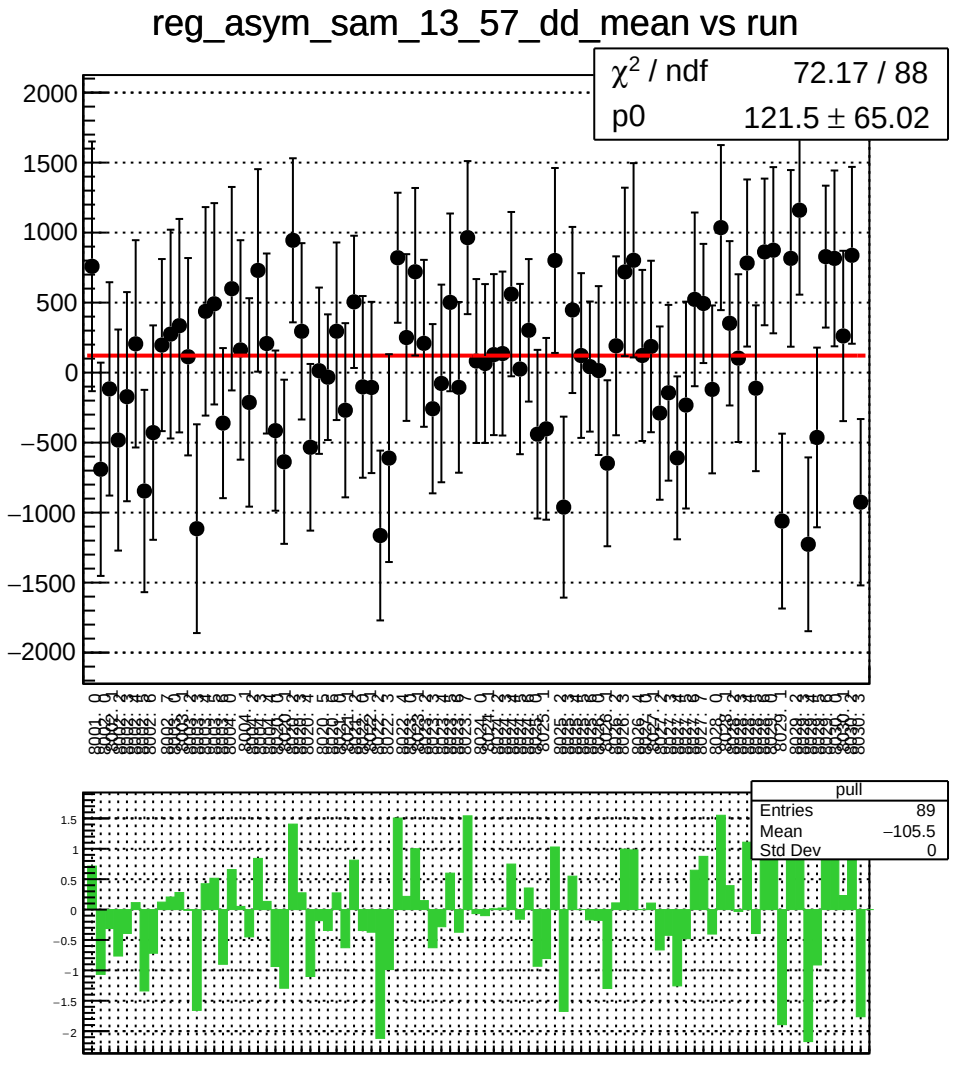

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 113.2 / 88
p0 0.02907 ± 0.0539
pull
Entries 89
Mean 193.6
Std Dev 0
pull1D
Entries 89
Mean 0.005094
Std Dev 1.128

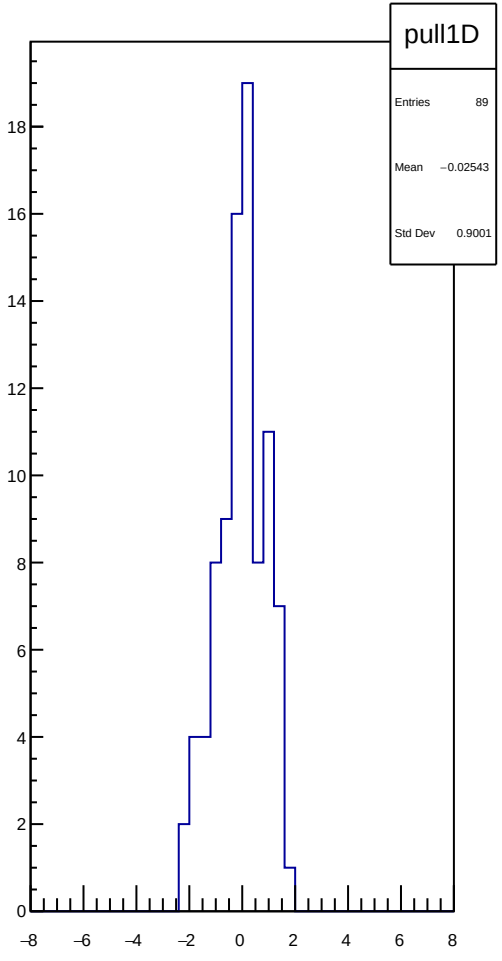

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.773e+05 / 88
p0 46.01 ± 0.03811
300
250
200
150
100
50

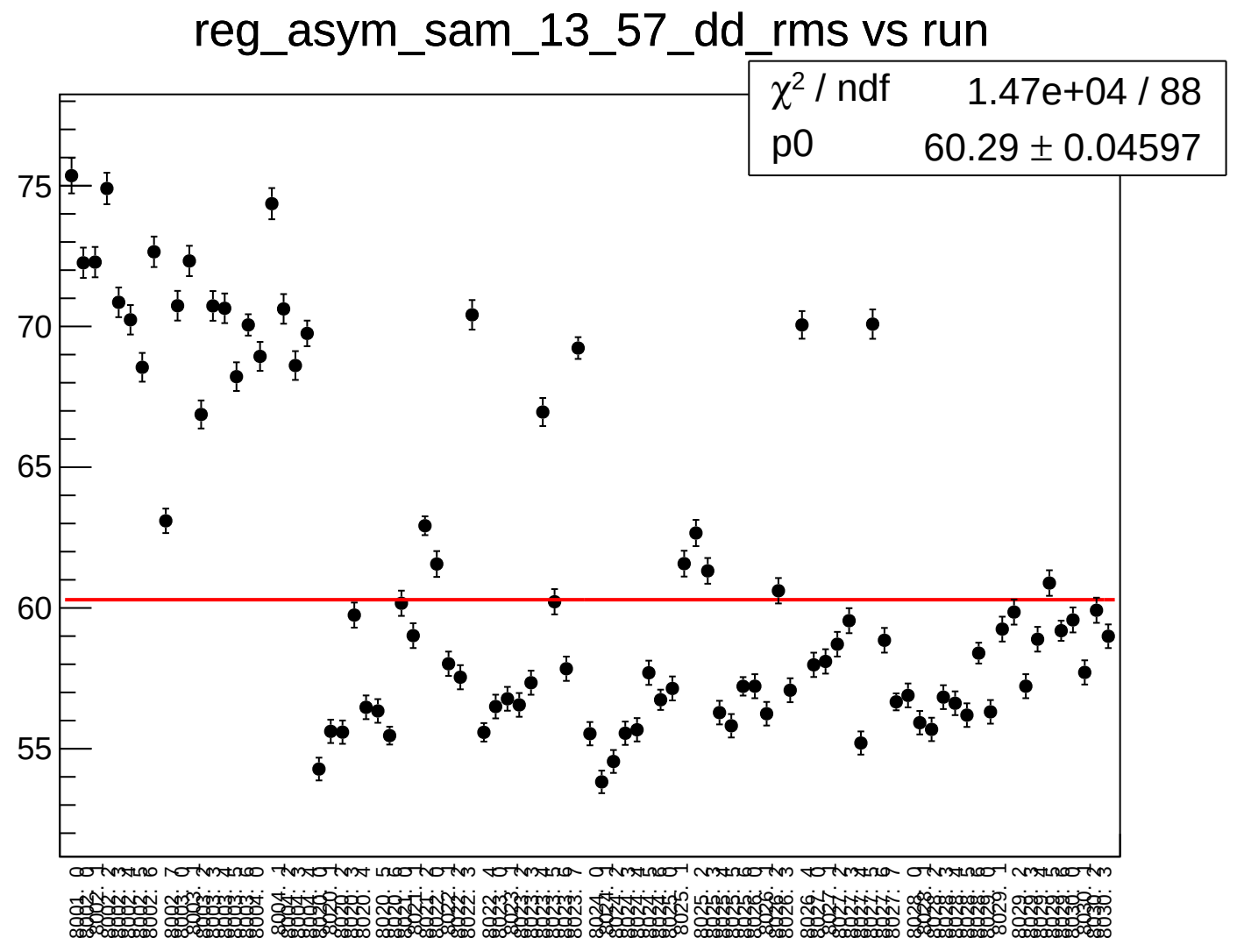

asym_sam_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 85.31 / 88
p0 −9.591e−14 ± 9.525e−14
pull
Entries 89
Mean −22.92
Std Dev 0

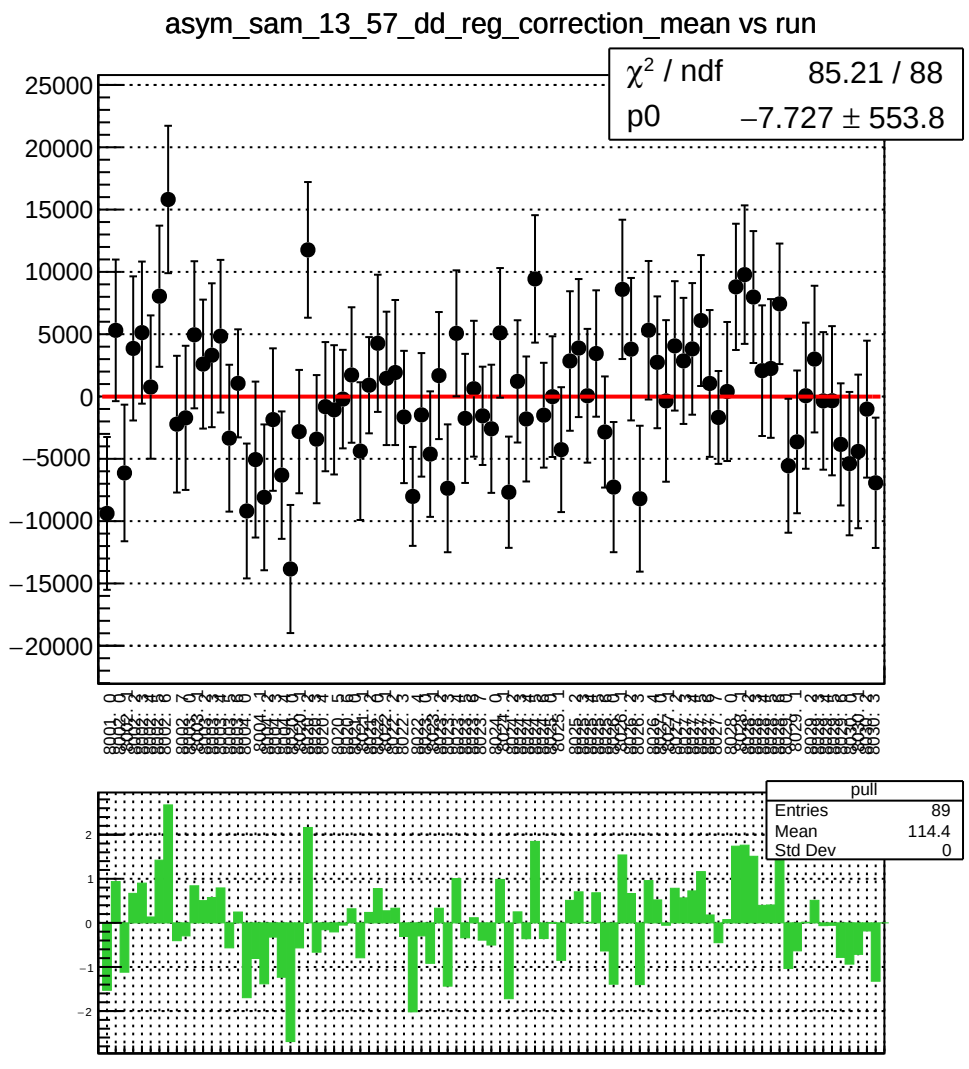

pull1D
Entries 89
Mean −0.07088
Std Dev 0.9765

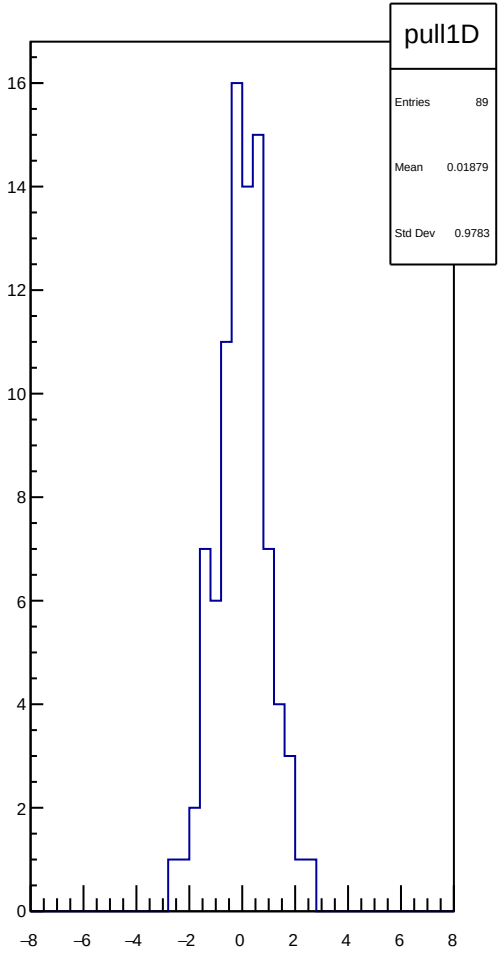

asym_sam_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.768e+05 / 88
p0 7.554e−11 ± 6.735e−14
0.6
0.5
0.4
0.3
0.2
0.1

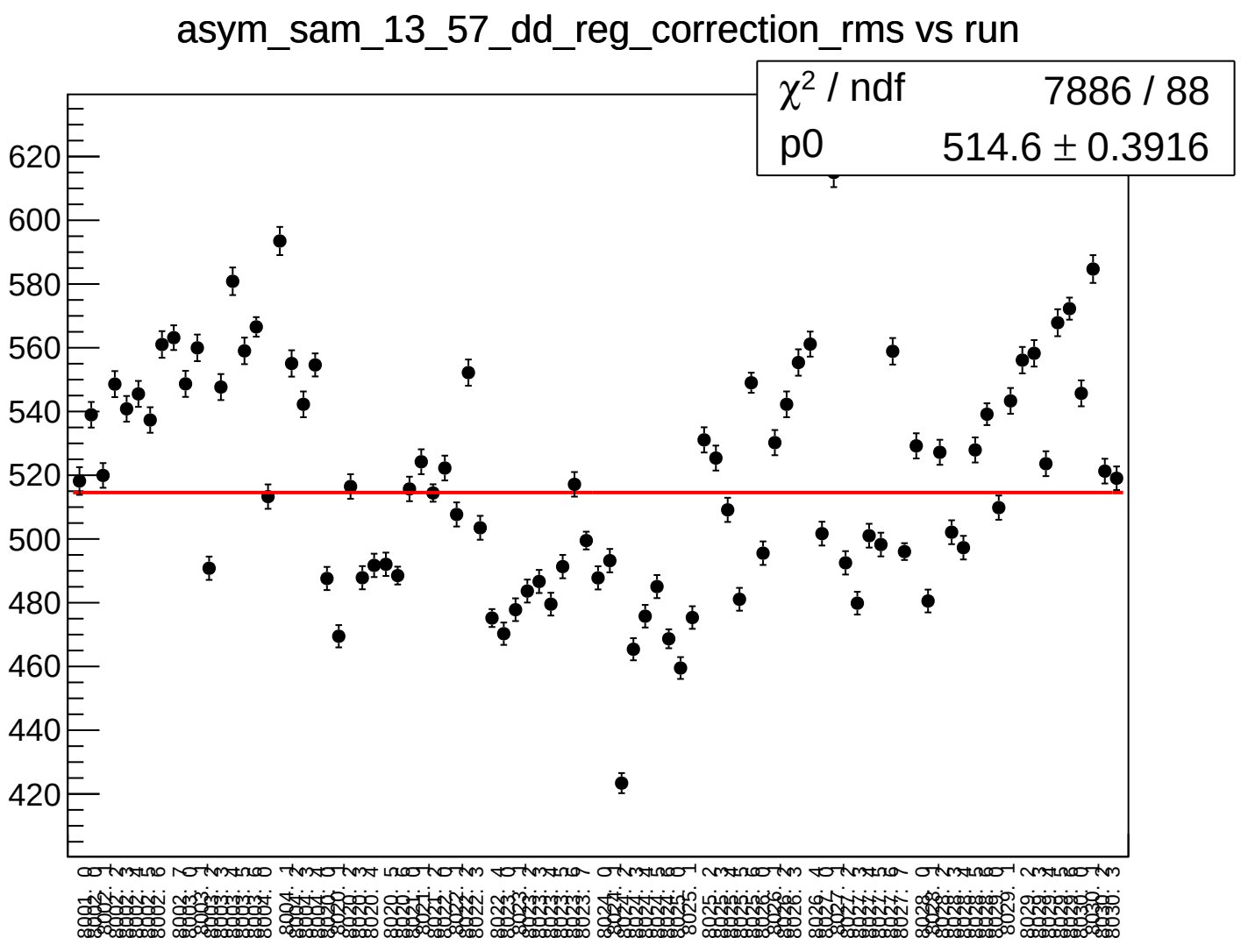

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 72.17 / 88
p0 121.5 ± 65.02
pull
Entries 89
Mean −105.5
Std Dev 0

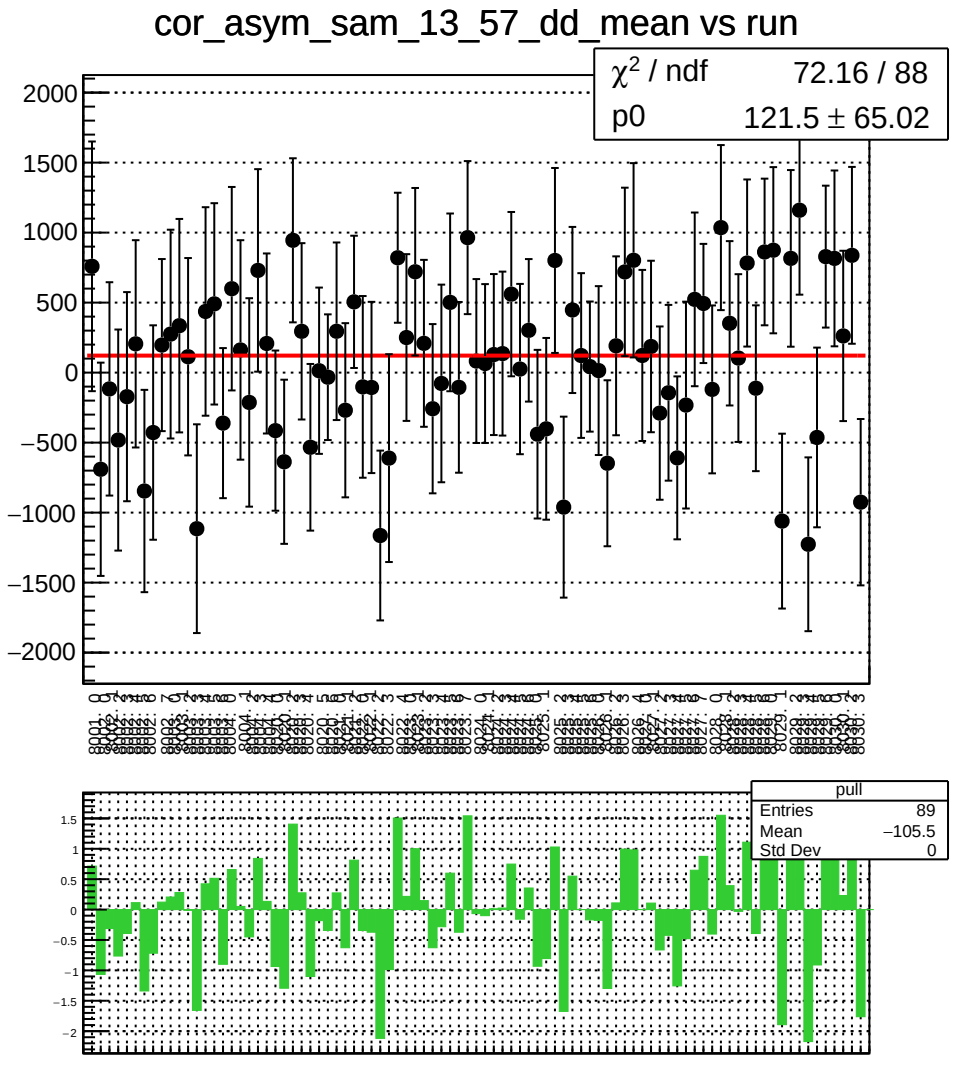

pull1D
Entries 89
Mean −0.02543
Std Dev 0.9001

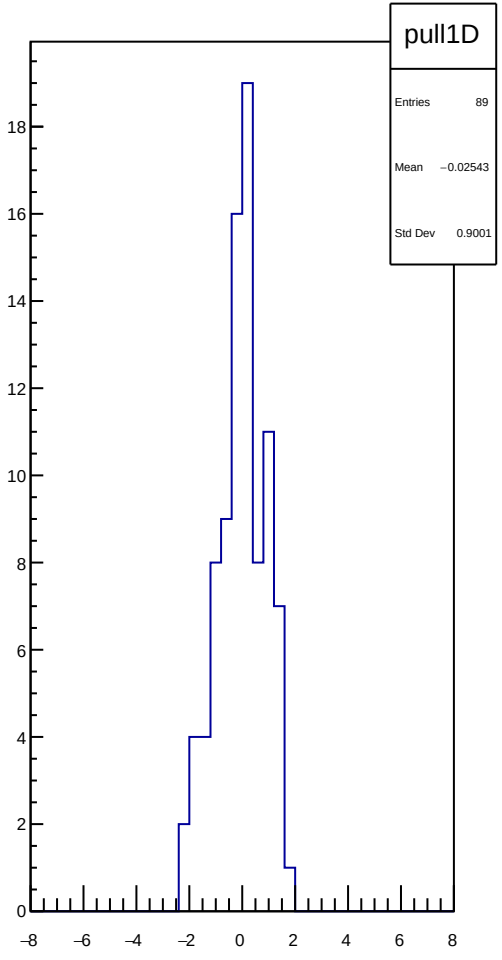

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 1.47e+04 / 88
p0 60.29 ± 0.04597
75
70
65
60
55

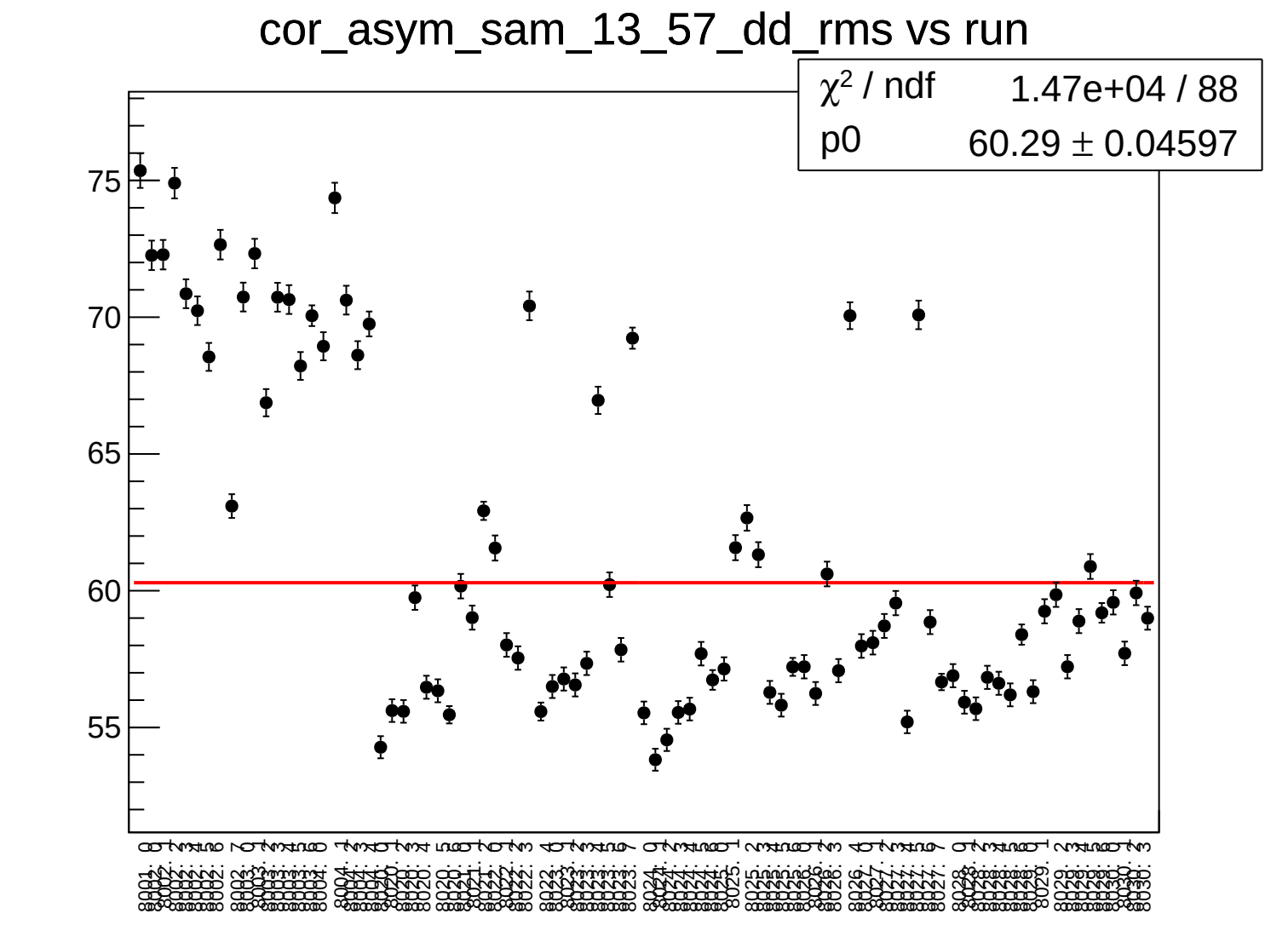

asym_sam_13_57_dd_reg_correction_mean vs run
χ² / ndf 85.21 / 88
p0 −7.727 ± 553.8
pull
Entries 89
Mean 114.4
Std Dev 0

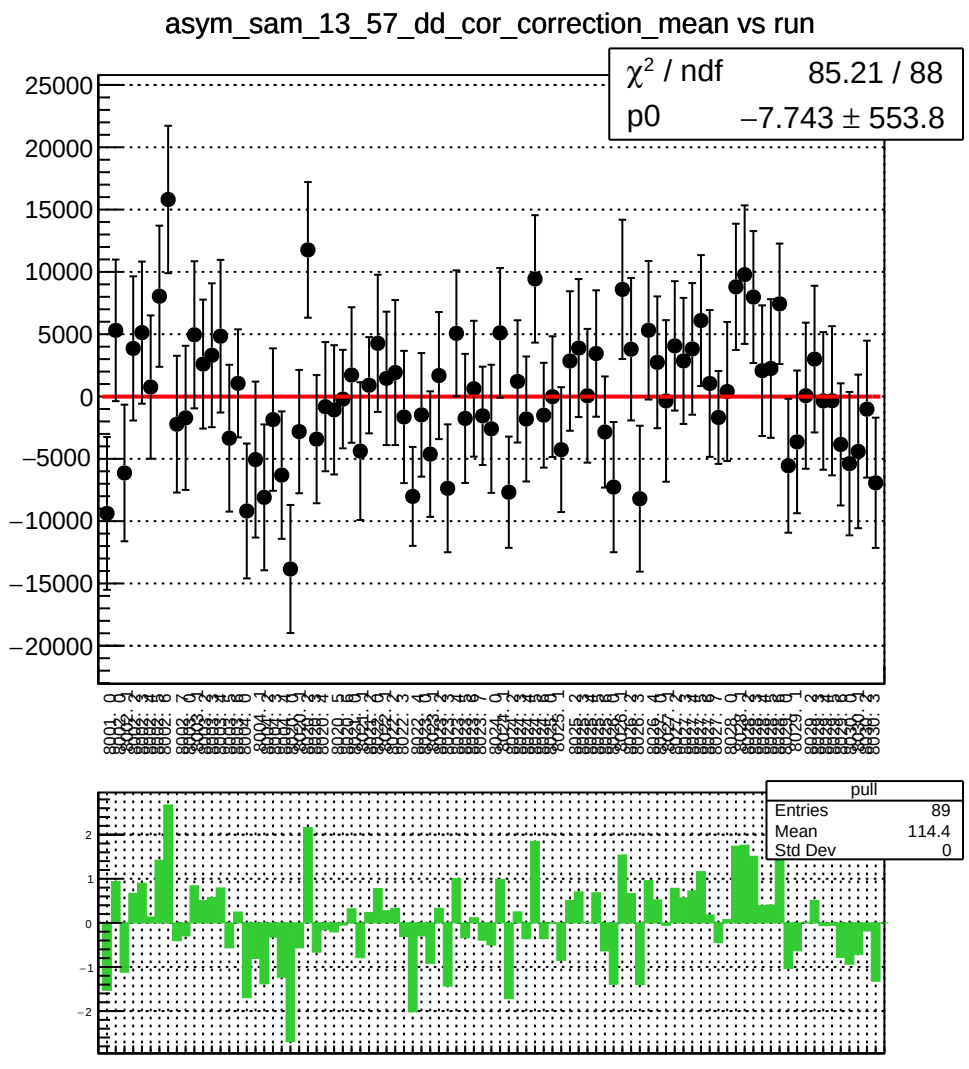

pull1D
Entries 89
Mean 0.01879
Std Dev 0.9783

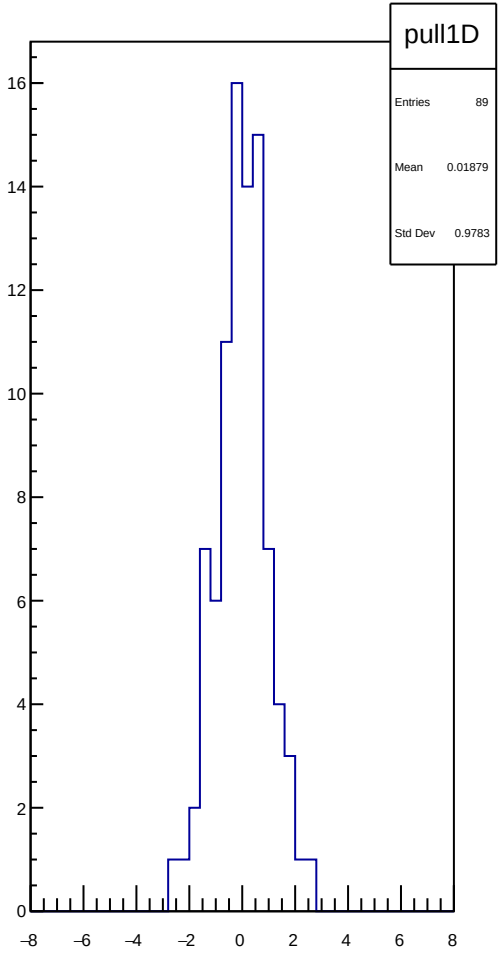

asym_sam_13_57_dd_reg_correction_rms vs run
χ² / ndf 7886 / 88
p0 514.6 ± 0.3916
620
600
580
560
540
520
500
480
460
440
420

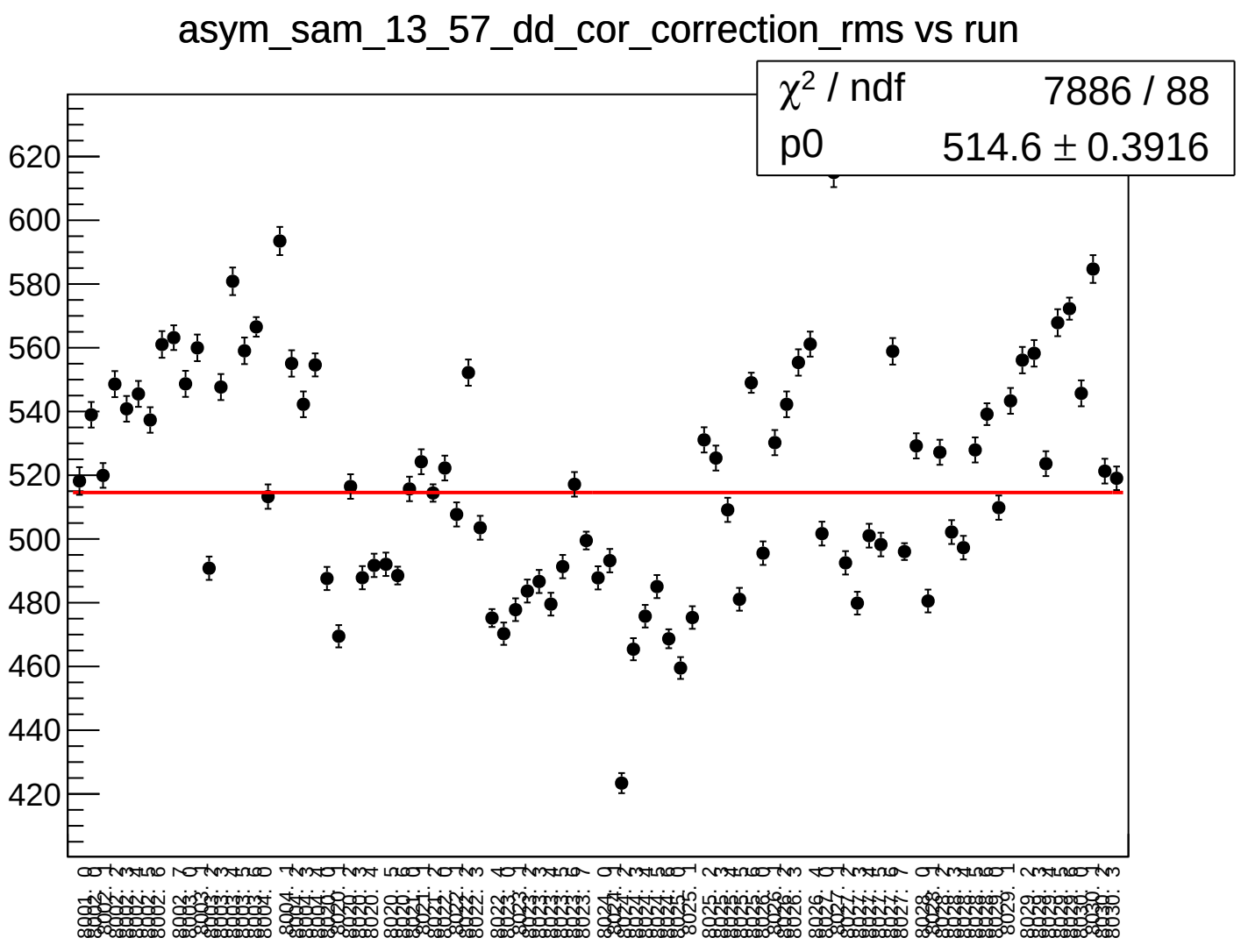

cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 72.16 / 88
p0 121.5 ± 65.02
pull
Entries 89
Mean −105.5
Std Dev 0

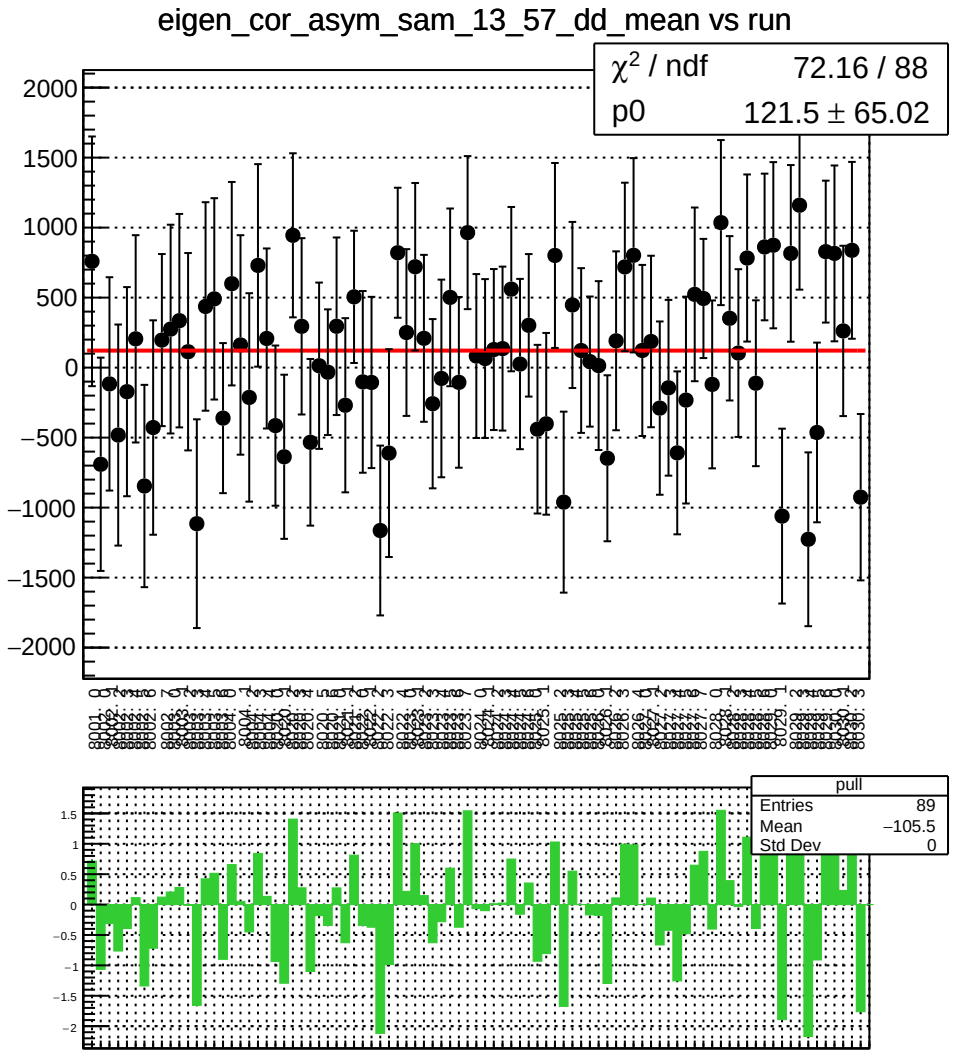

pull1D
Entries 89
Mean −0.02543
Std Dev 0.9001

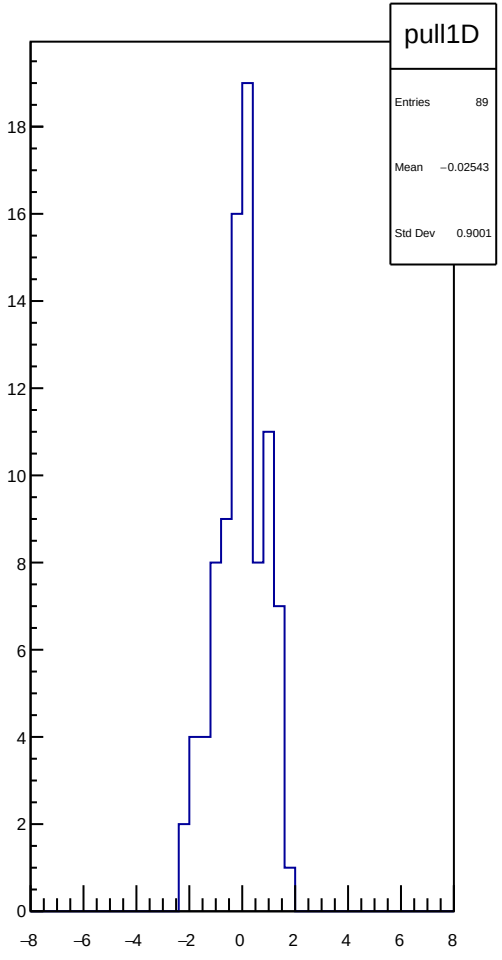

cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 1.47e+04 / 88
p0 60.29 ± 0.04597
75
70
65
60
55

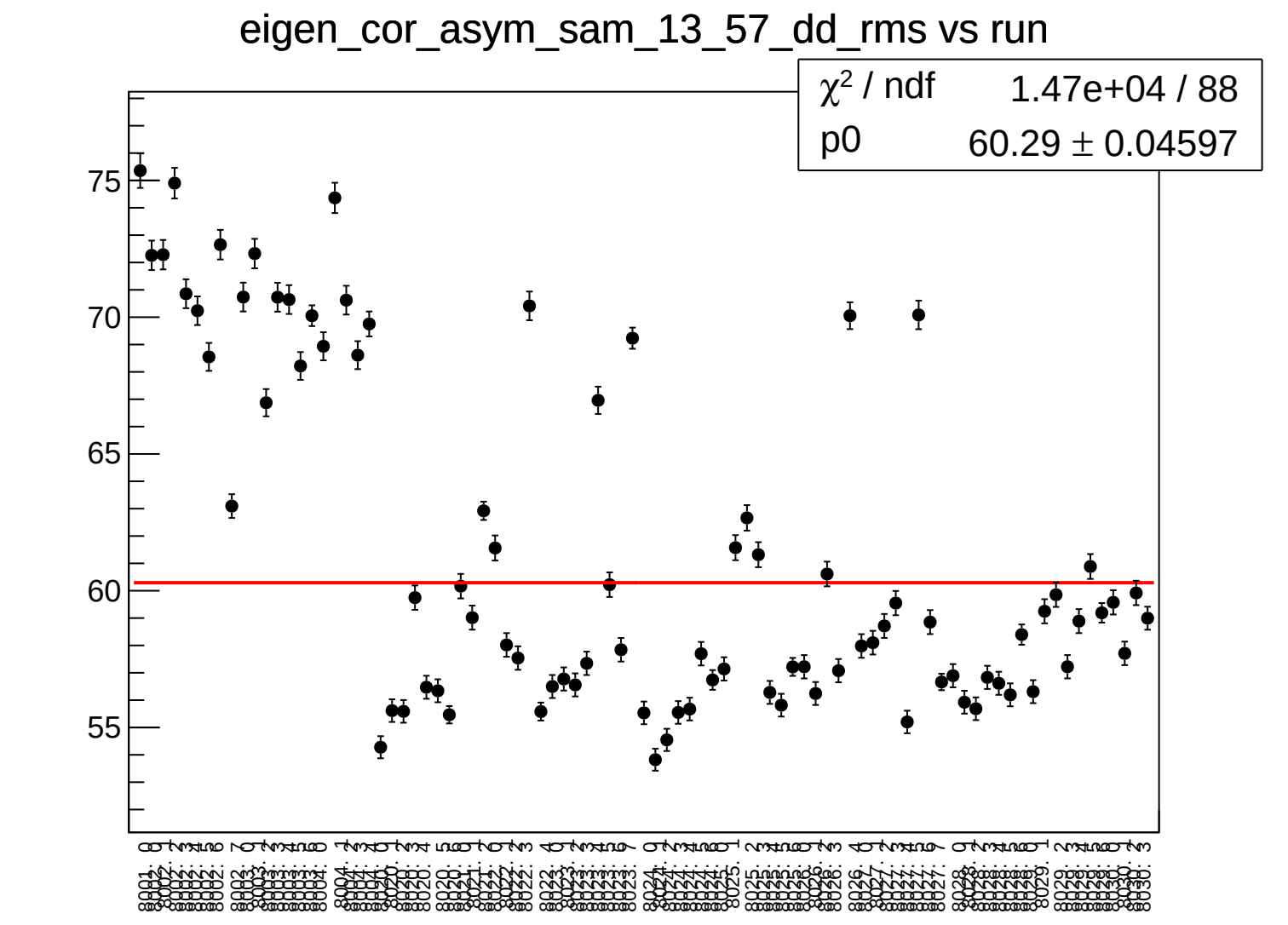

asym_sam_13_57_dd_cor_correction_mean vs run
χ² / ndf 85.21 / 88
p0 −7.743 ± 553.8
pull
Entries 89
Mean 114.4
Std Dev 0

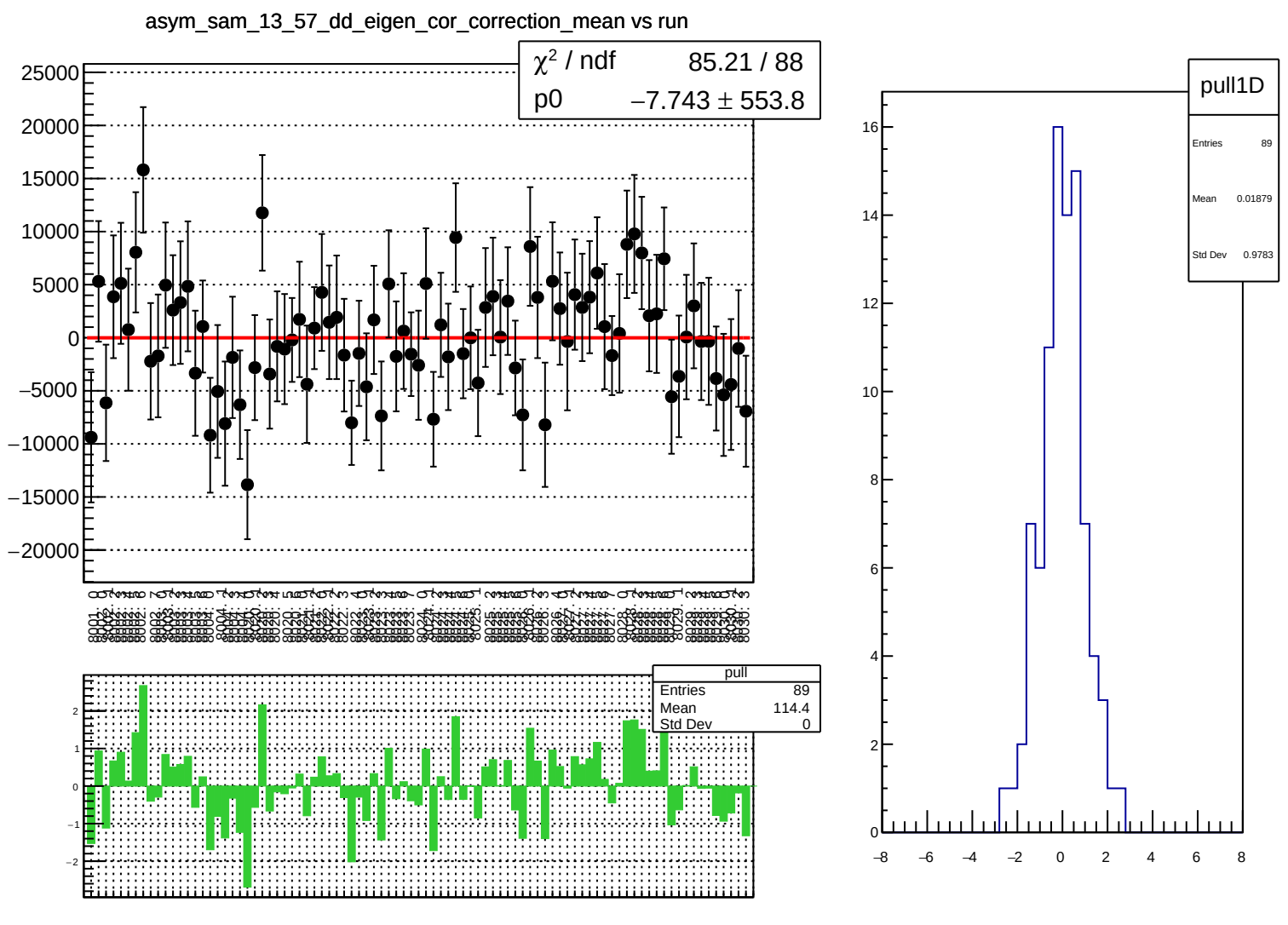

pull1D
Entries 89
Mean 0.01879
Std Dev 0.9783

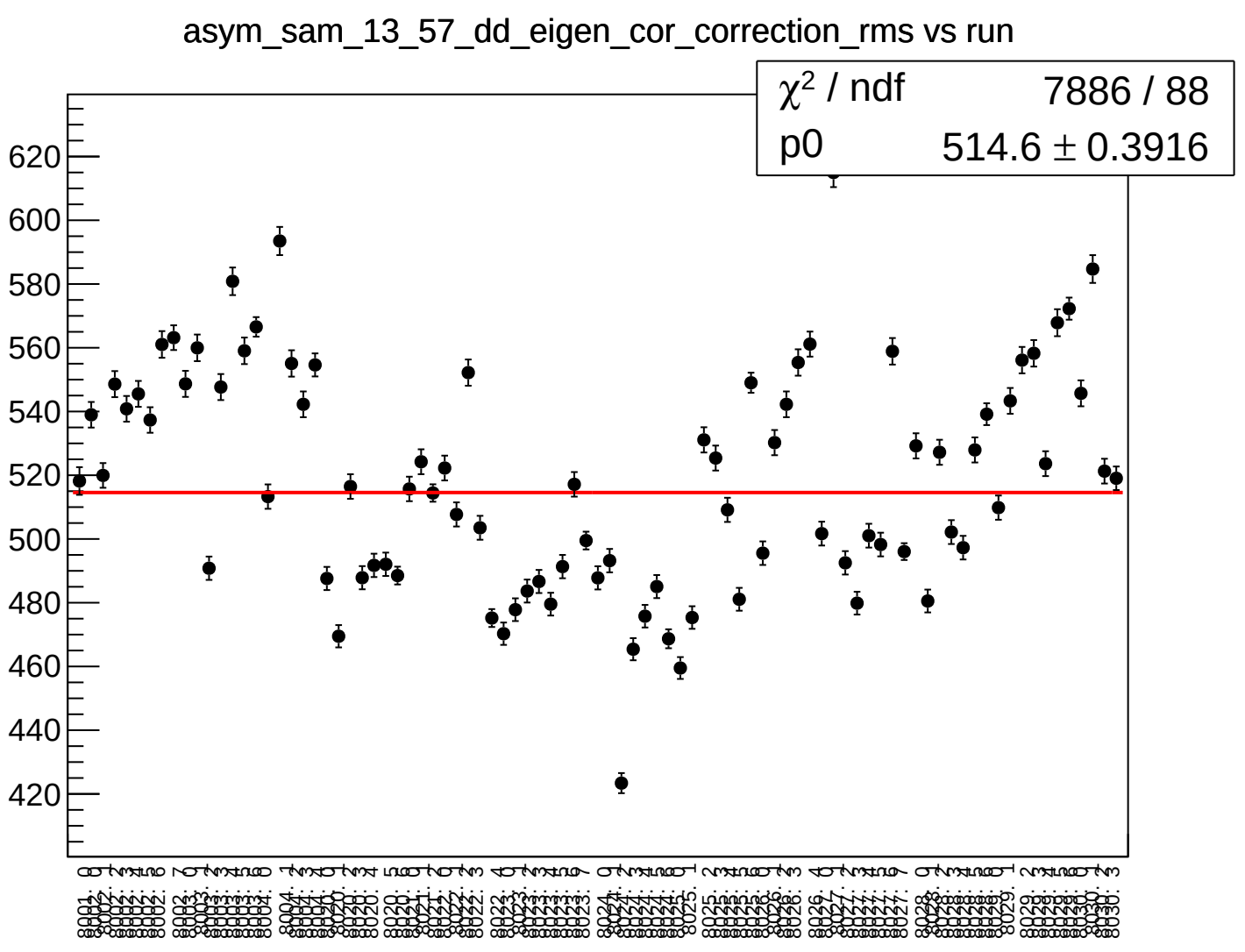

asym_sam_13_57_dd_cor_correction_rms vs run
χ² / ndf 7886 / 88
p0 514.6 ± 0.3916
620
600
580
560
540
520
500
480
460
440
420

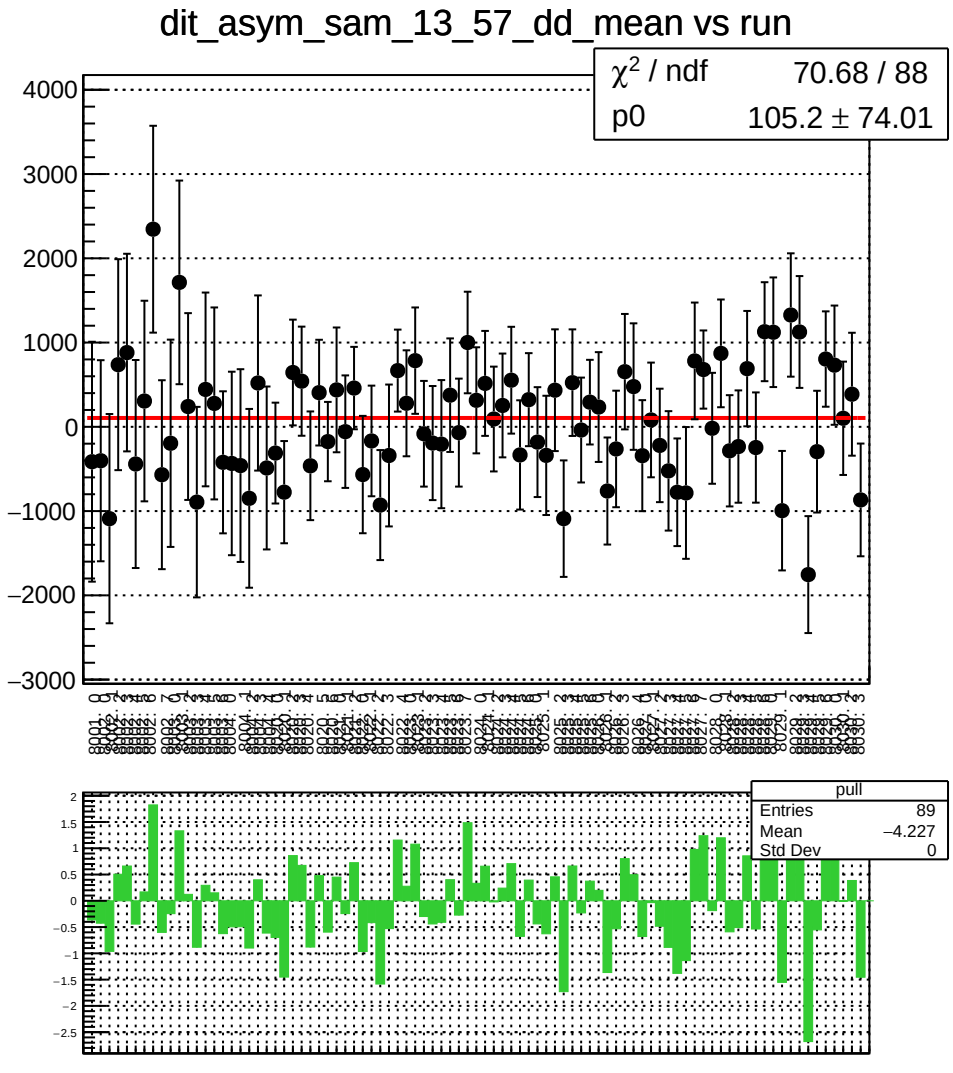

eigen_cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 72.16 / 88
p0 121.5 ± 65.02
pull
Entries 89
Mean −105.5
Std Dev 0

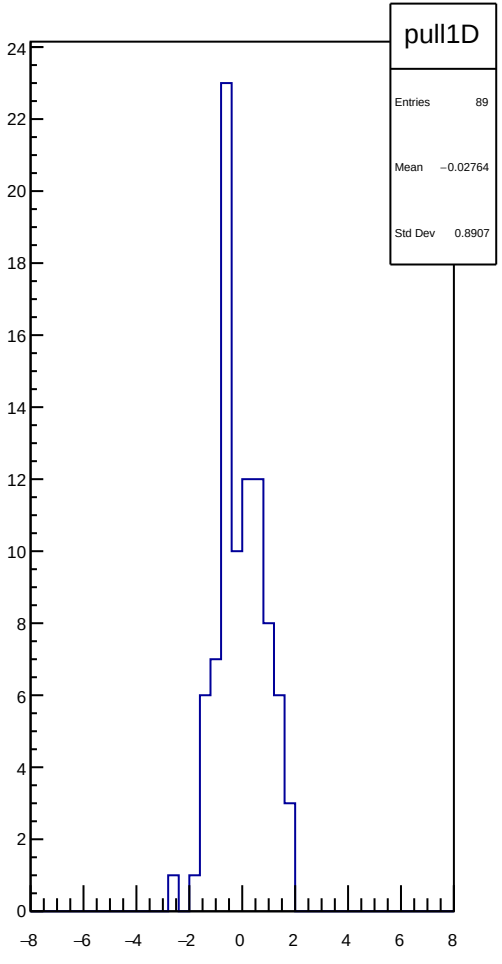

pull1D
Entries 89
Mean −0.02543
Std Dev 0.9001

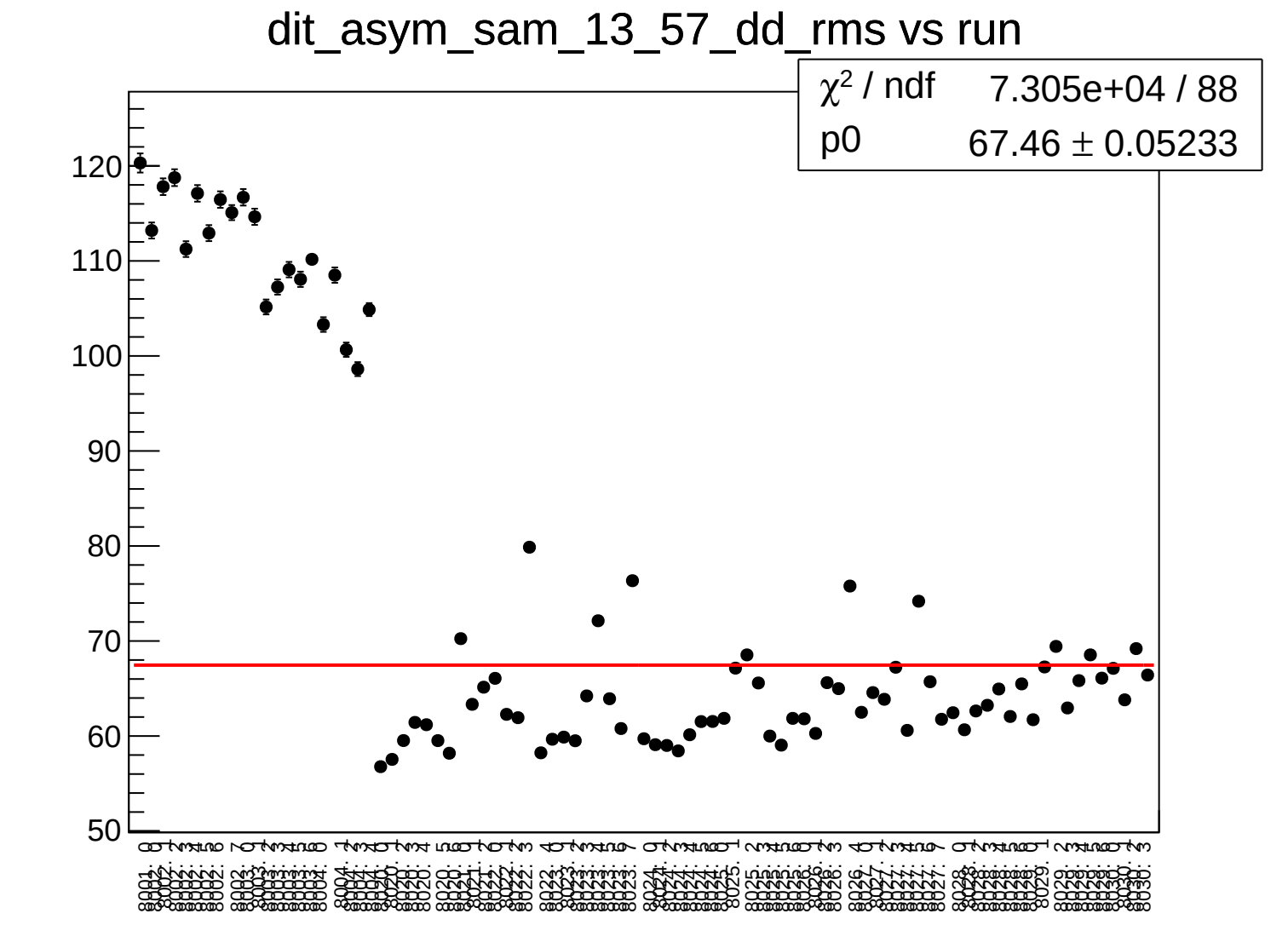

eigen_cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 1.47e+04 / 88
p0 60.29 ± 0.04597
75
70
65
60
55

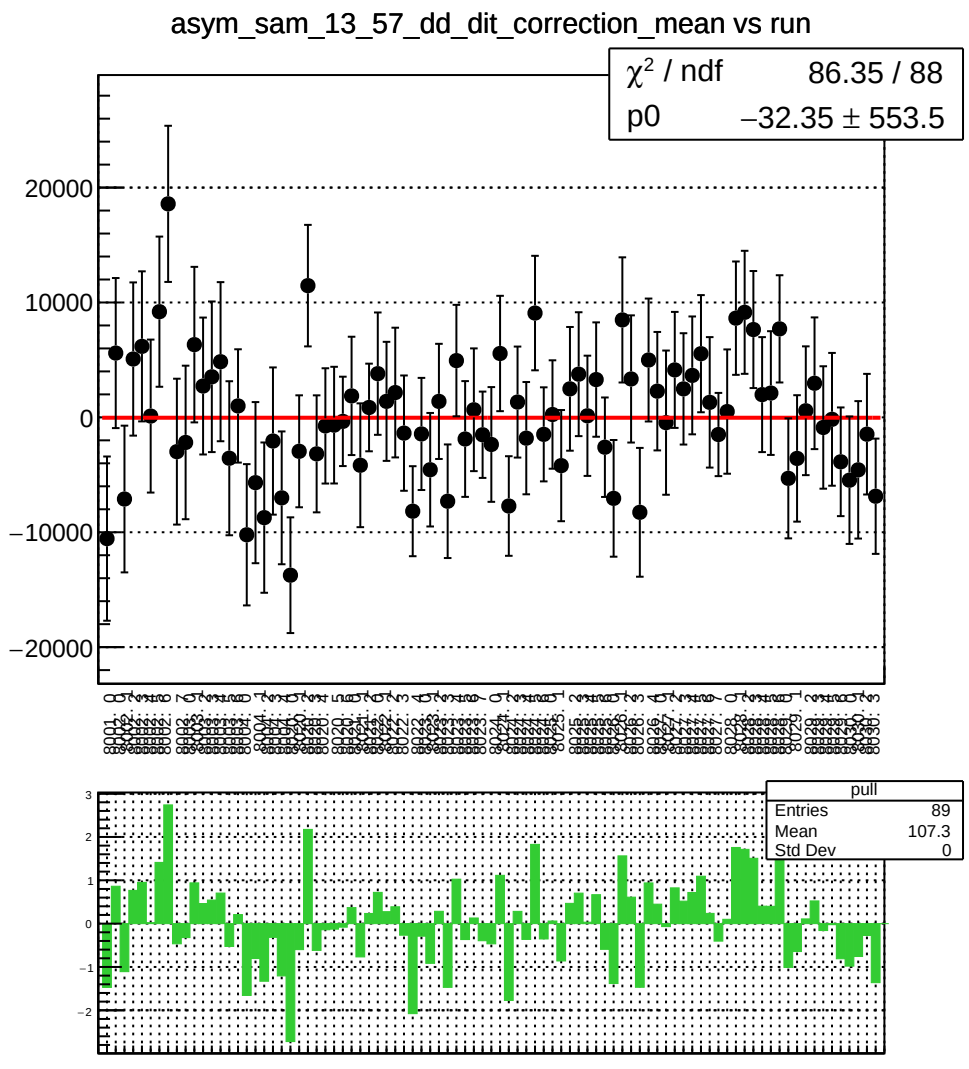

asym_sam_13_57_dd_eigen_cor_correction_mean vs run
χ² / ndf 85.21 / 88
p0 −7.743 ± 553.8
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 89
Mean 114.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.01879
Std Dev 0.9783
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

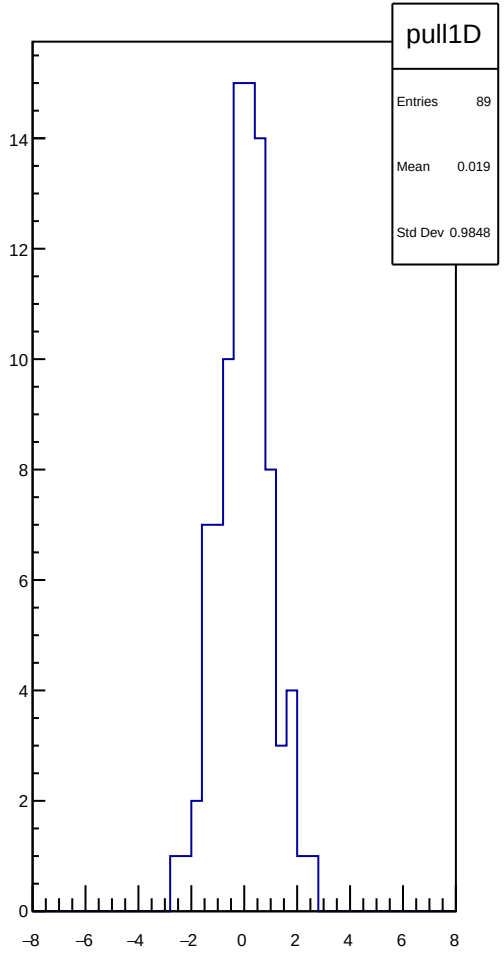

asym_sam_13_57_dd_eigen_cor_correction_rms vs run
χ² / ndf 7886 / 88
p0 514.6 ± 0.3916
620
600
580
560
540
520
500
480
460
440
420

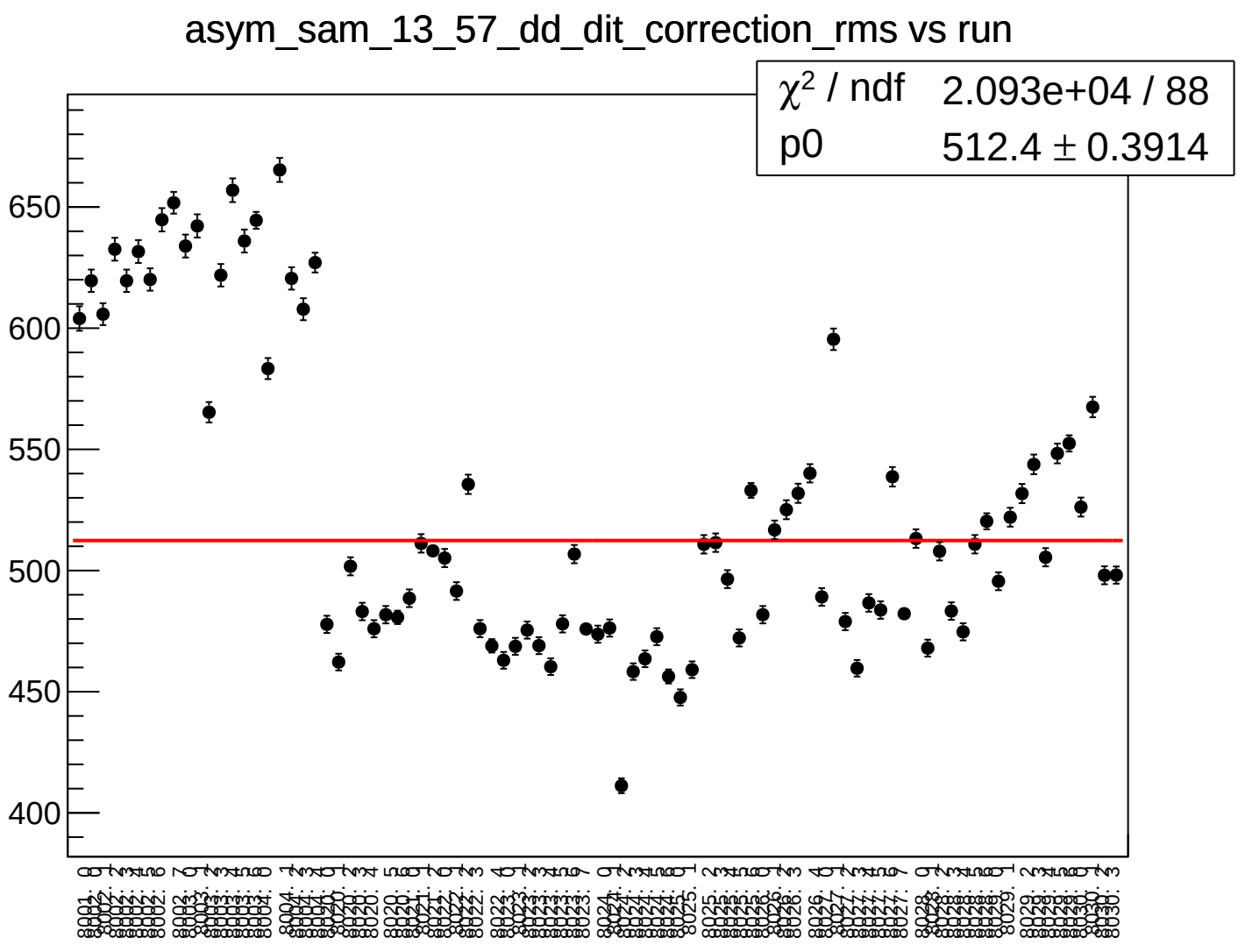

dit_asym_sam_13_57_dd_mean vs run
χ^2 / ndf 70.68 / 88
p0 105.2 ± 74.01
pull
Entries 89
Mean −4.227
Std Dev 0

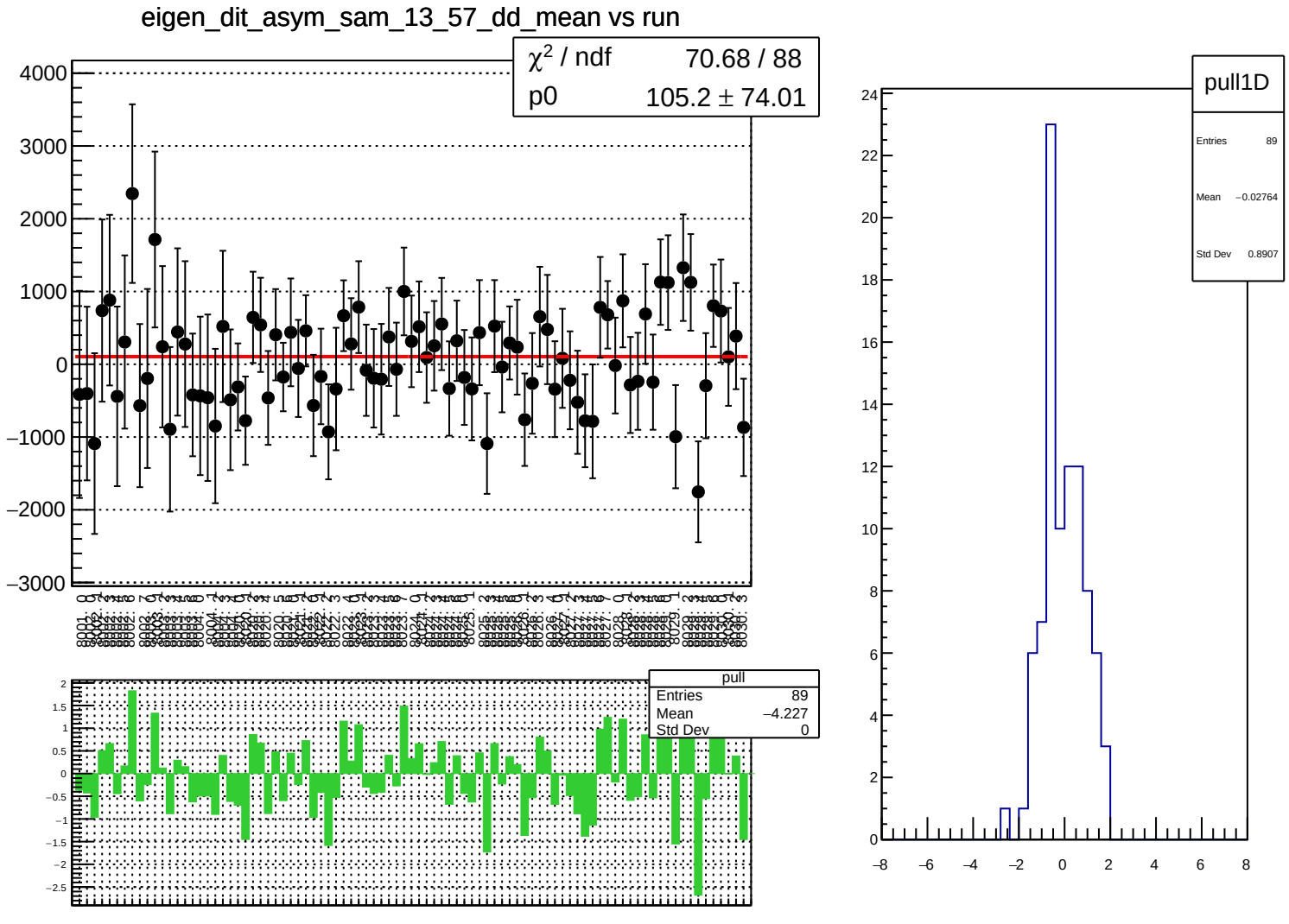

pull1D
Entries 89
Mean −0.02764
Std Dev 0.8907

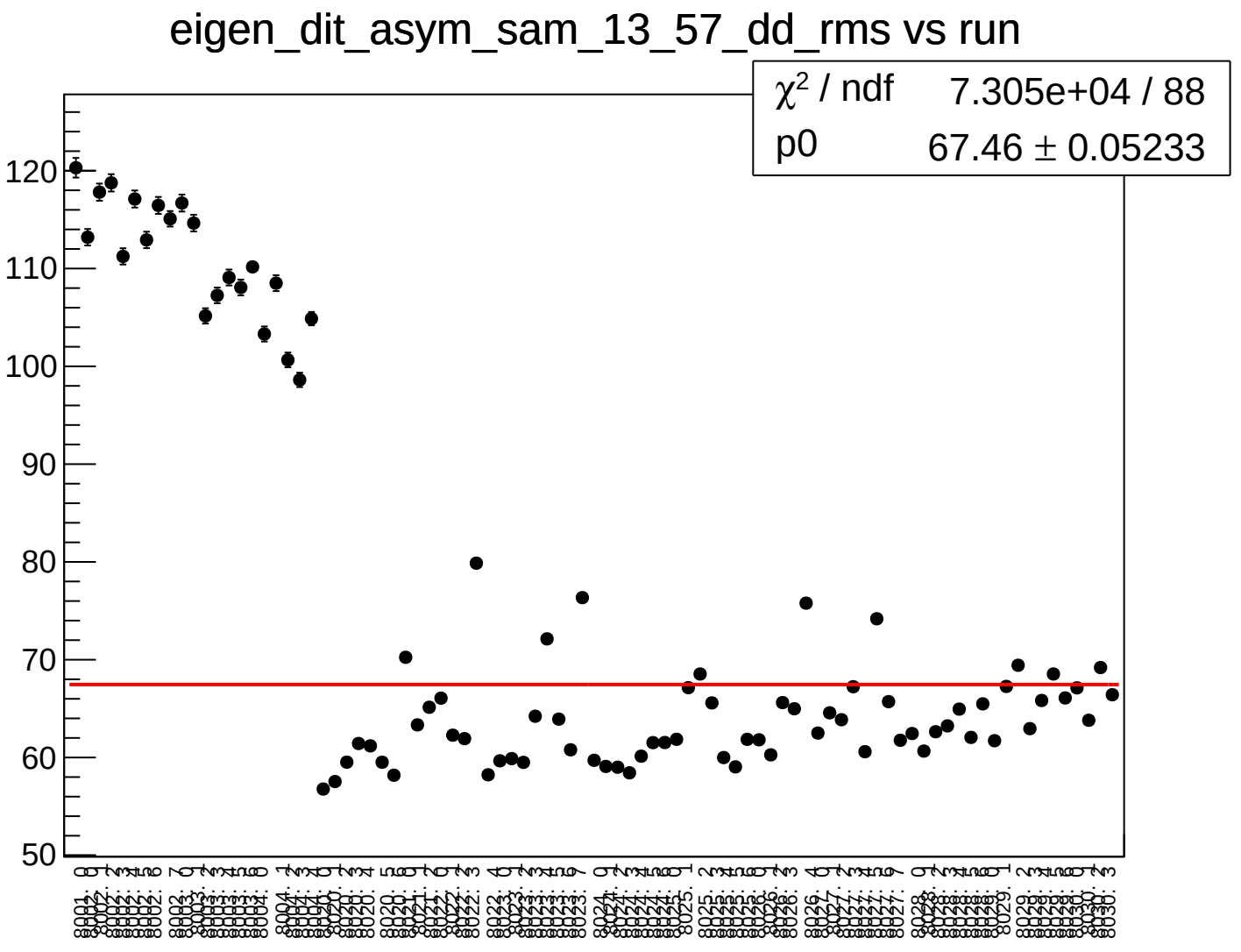

dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 7.305e+04 / 88
p0 67.46 ± 0.05233
120
110
100
90
80
70
60
50

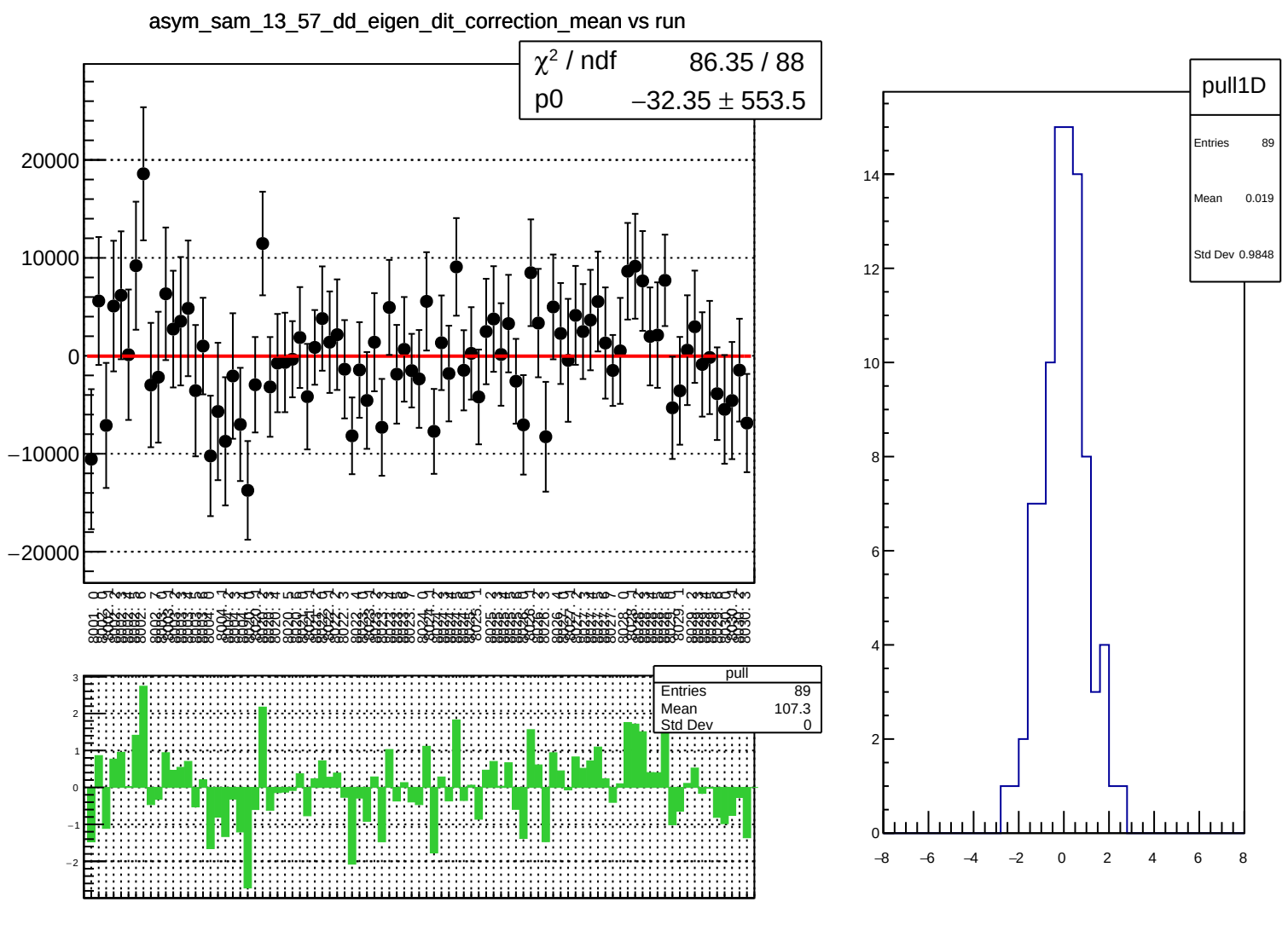

asym_sam_13_57_dd_dit_correction_mean vs run
χ² / ndf 86.35 / 88
p0 −32.35 ± 553.5
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 107.3
Std Dev 0
3
2
1
0
−1
−2

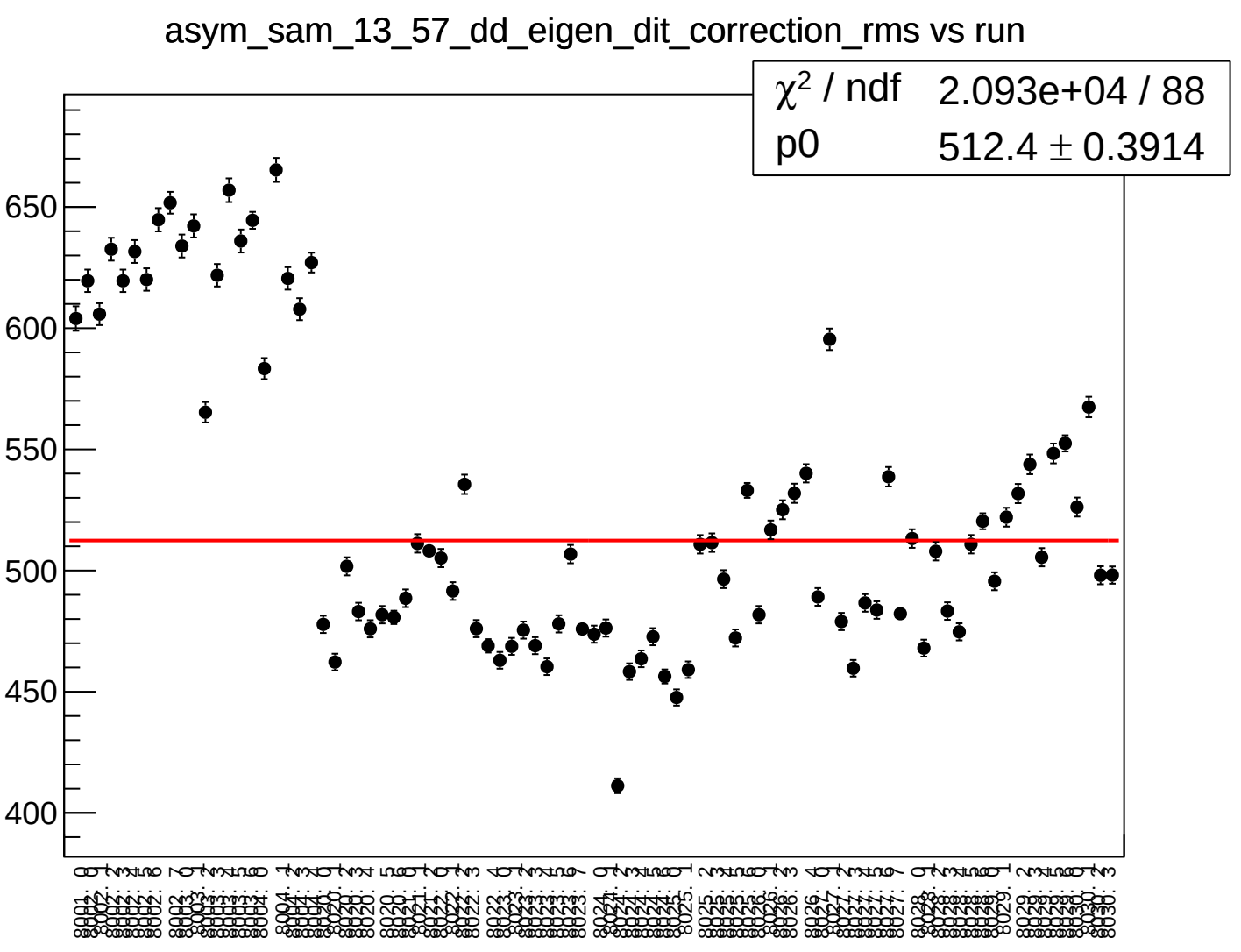

pull1D
Entries 89
Mean 0.019
Std Dev 0.9848
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

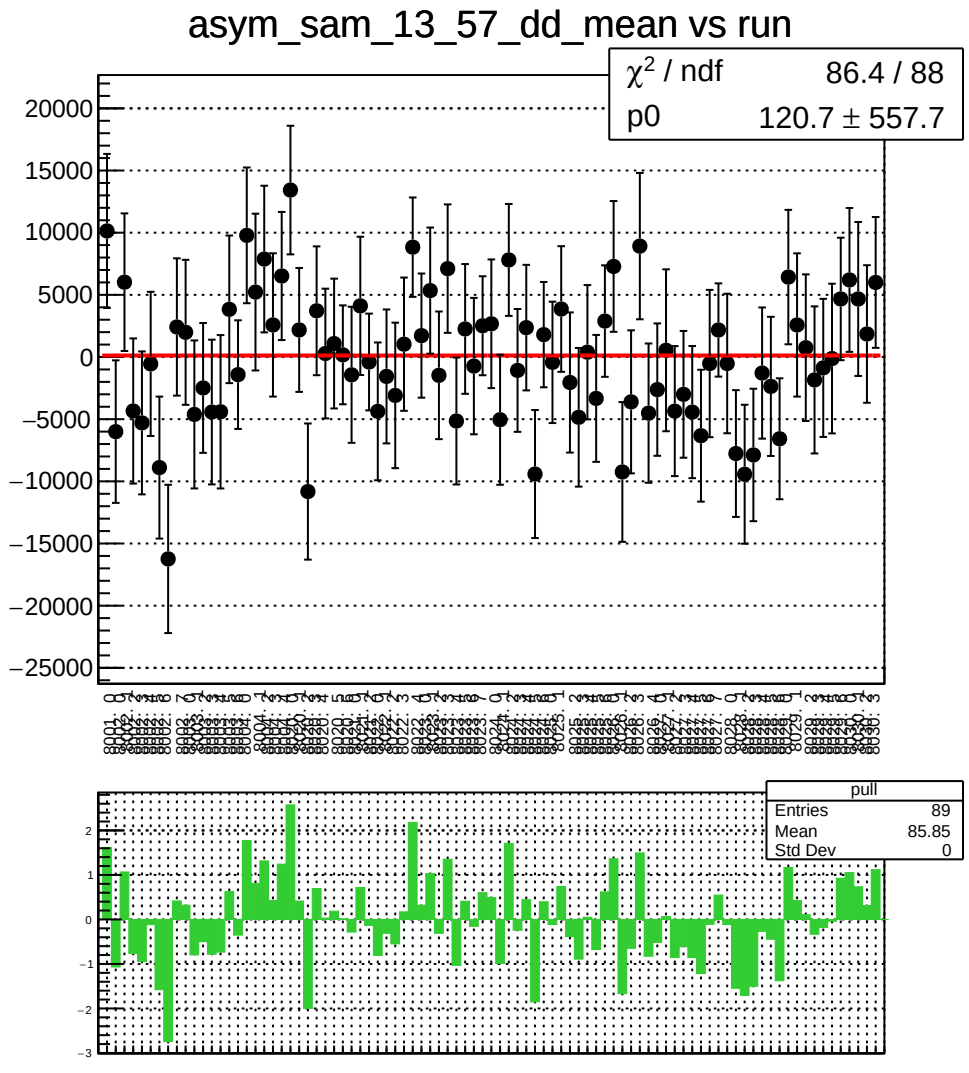

asym_sam_13_57_dd_dit_correction_rms vs run
χ² / ndf 2.093e+04 / 88
p0 512.4 ± 0.3914
650
600
550
500
450
400

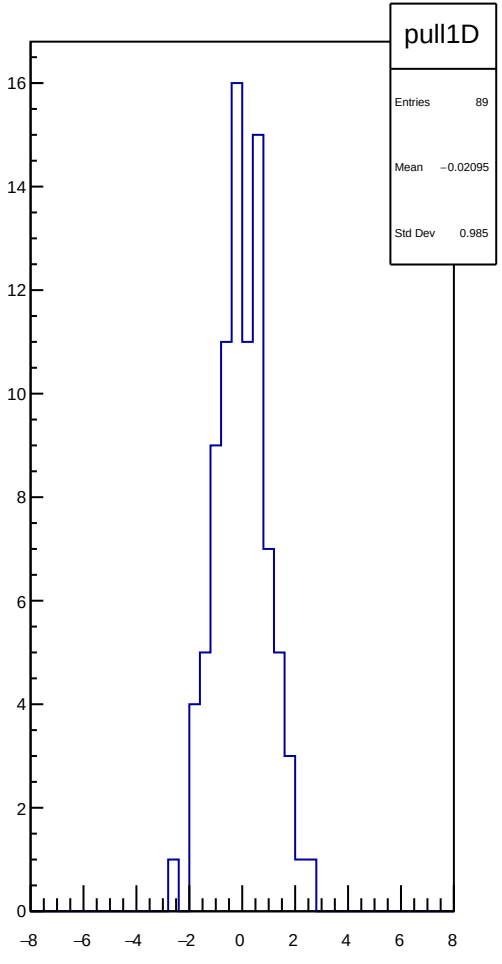

eigen_dit_asym_sam_13_57_dd_mean vs run
χ^2 / ndf 70.68 / 88
p0 105.2 ± 74.01
pull
Entries 89
Mean −4.227
Std Dev 0
pull1D
Entries 89
Mean −0.02764
Std Dev 0.8907

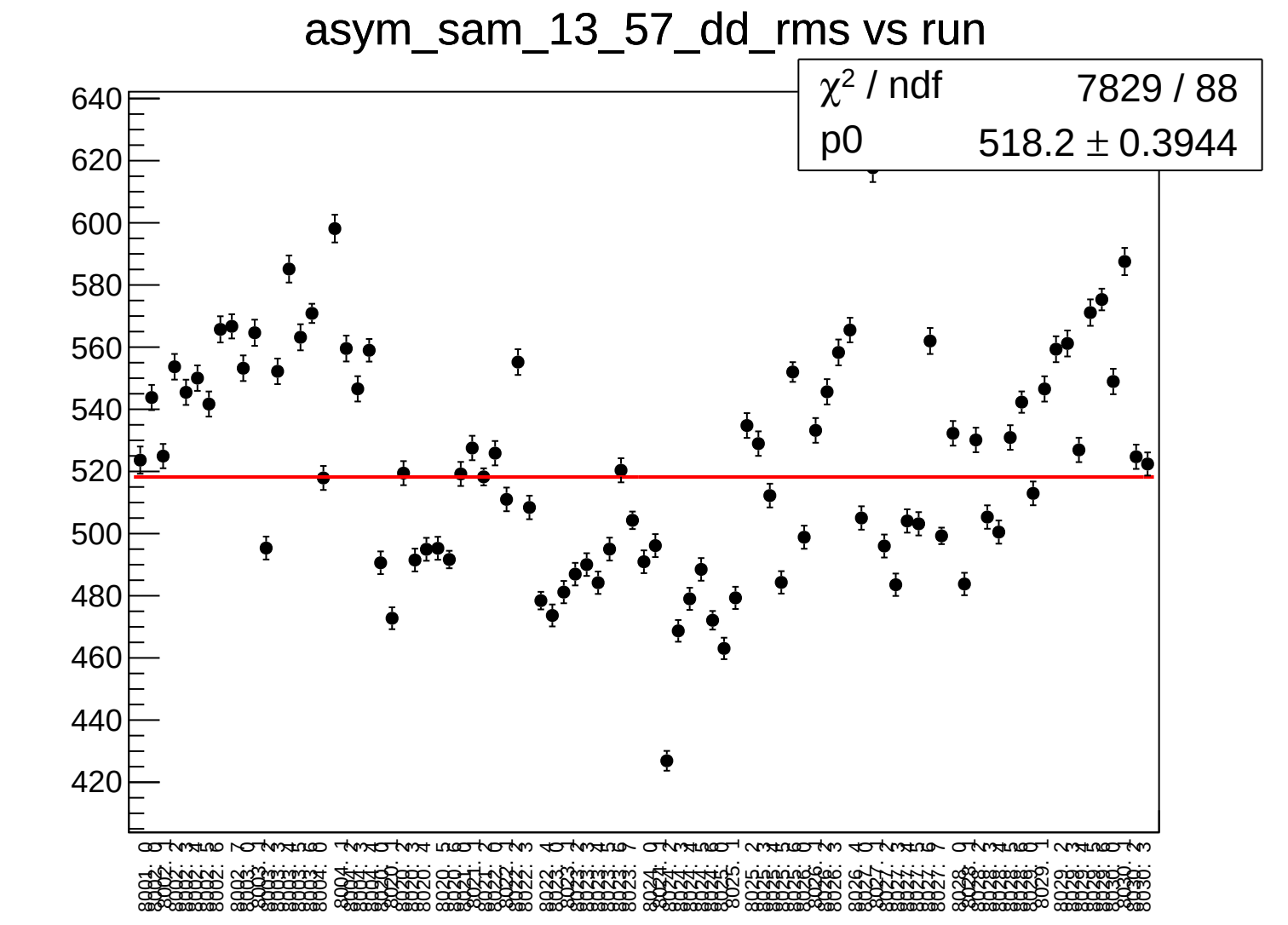

eigen_dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 7.305e+04 / 88
p0 67.46 ± 0.05233
120
110
100
90
80
70
60
50

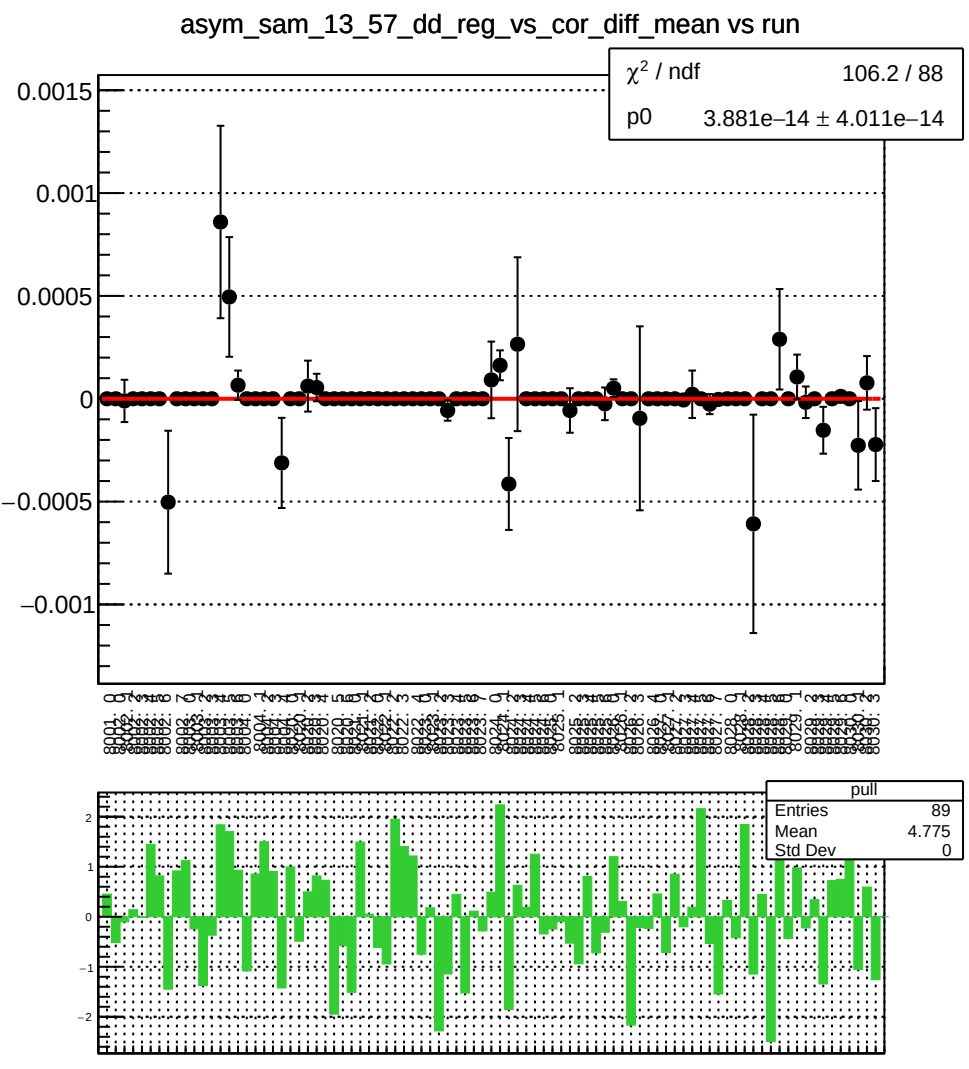

asym_sam_13_57_dd_eigen_dit_correction_mean vs run
χ² / ndf 86.35 / 88
p0 −32.35 ± 553.5
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 107.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.019
Std Dev 0.9848
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

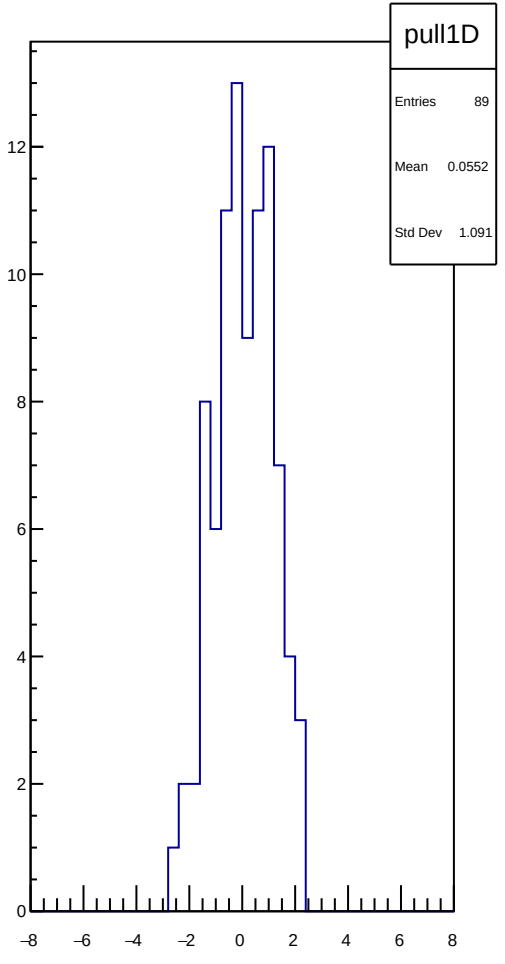

asym_sam_13_57_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.093e+04 / 88
p0 512.4 ± 0.3914
650
600
550
500
450
400

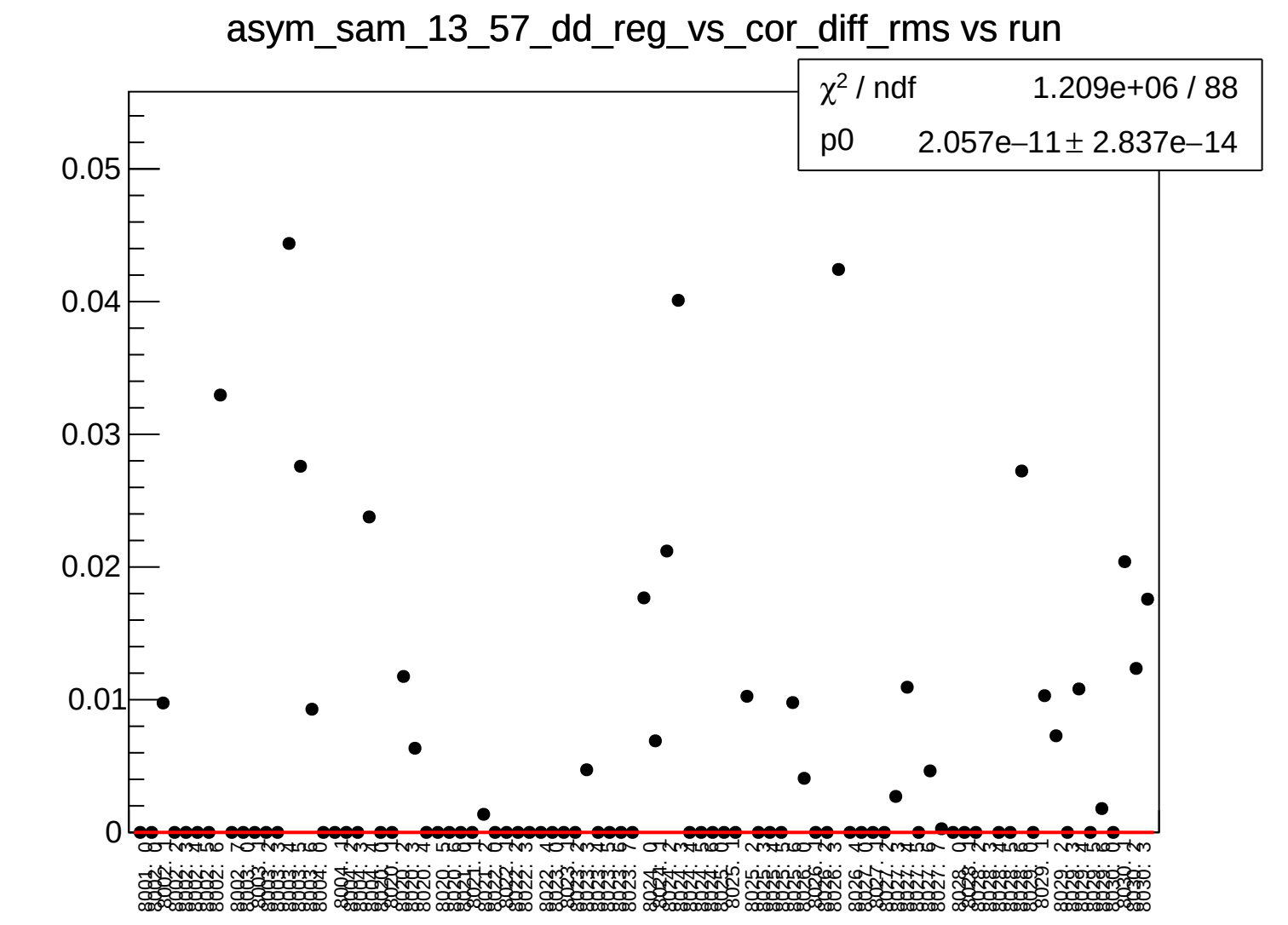

asym_sam_13_57_dd_mean vs run
χ² / ndf 86.4 / 88
p0 120.7 ± 557.7
pull
Entries 89
Mean 85.85
Std Dev 0

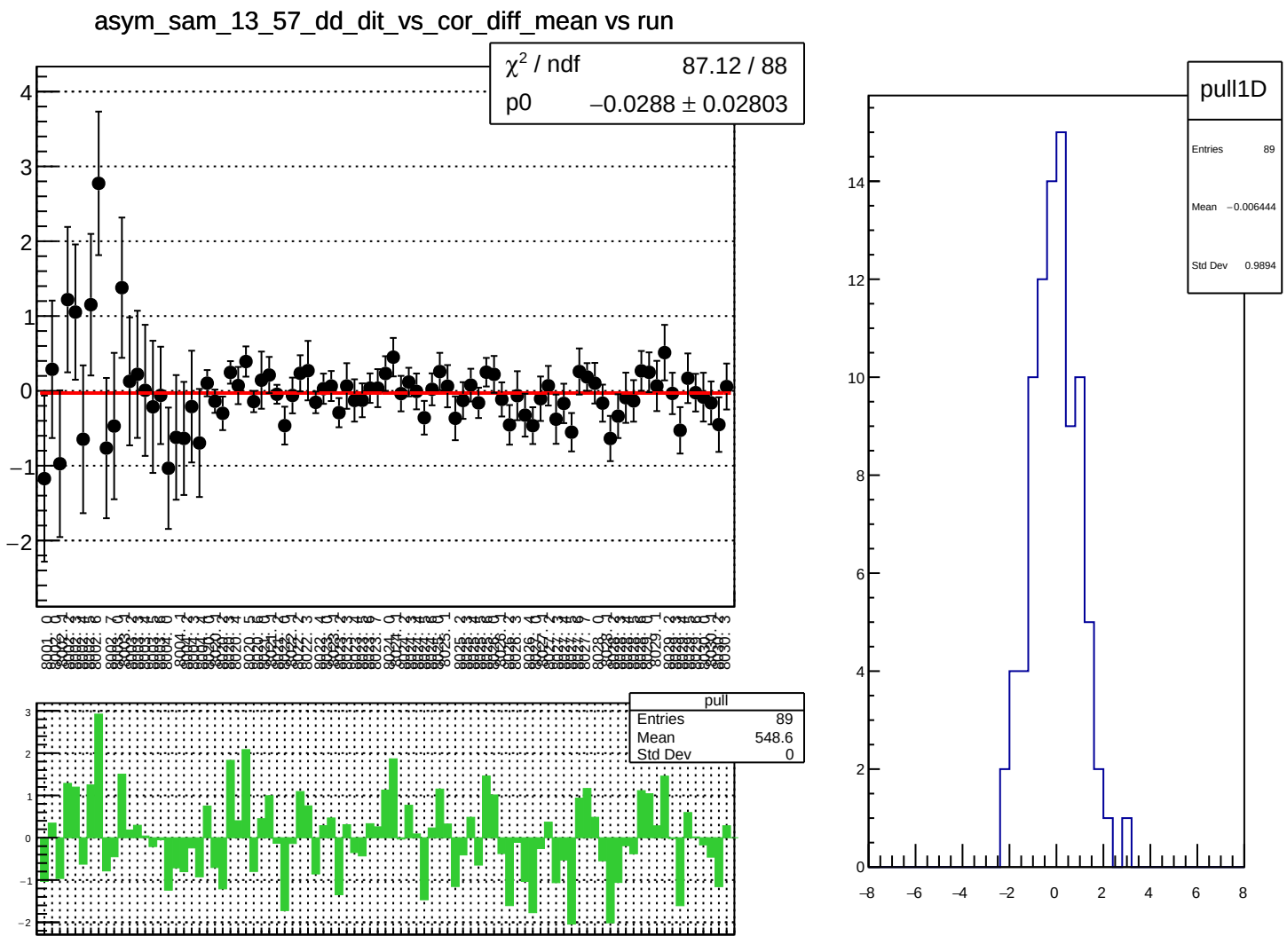

pull1D
Entries 89
Mean −0.02095
Std Dev 0.985

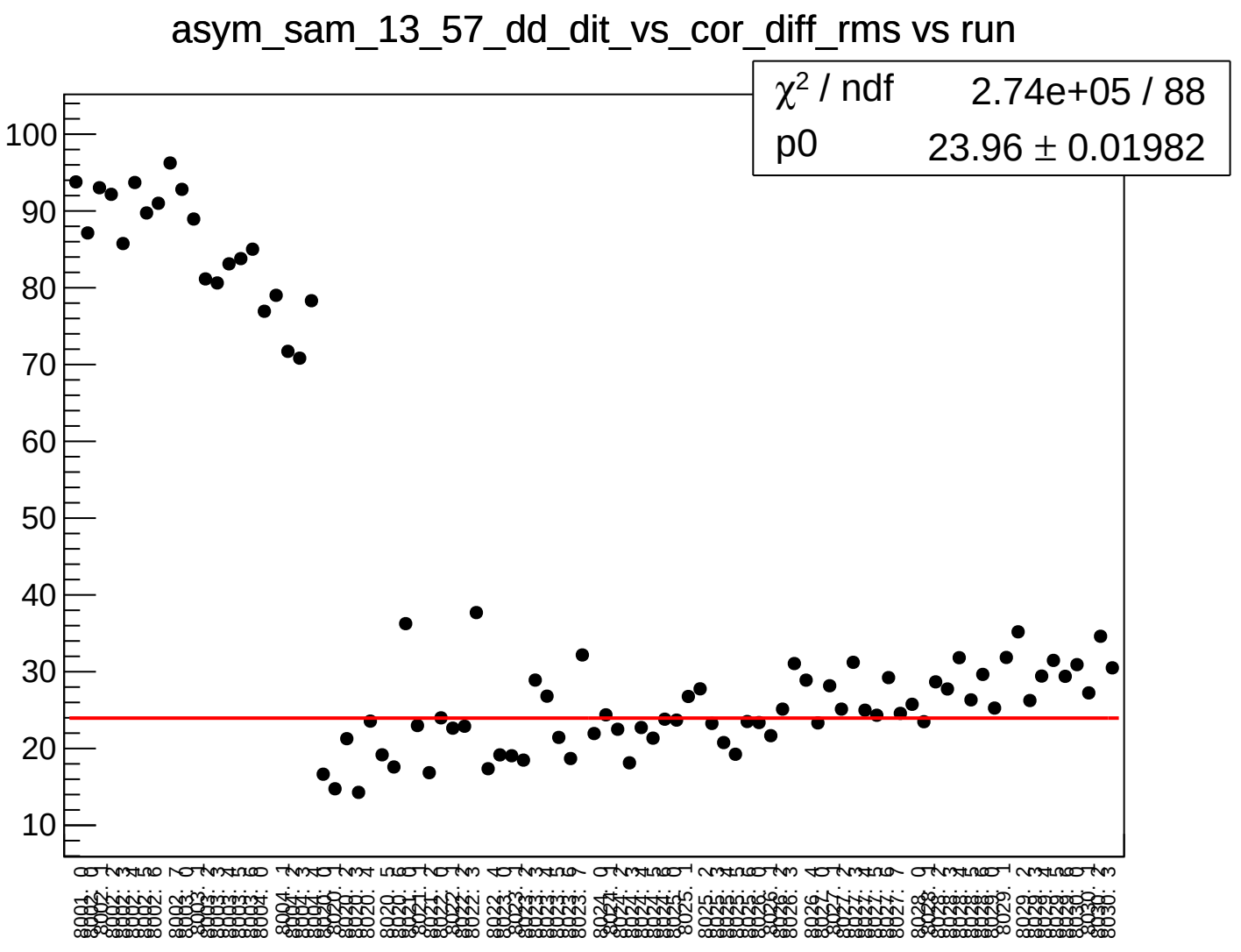

asym_sam_13_57_dd_rms vs run
χ² / ndf 7829 / 88
p0 518.2 ± 0.3944
640
620
600
580
560
540
520
500
480
460
440
420

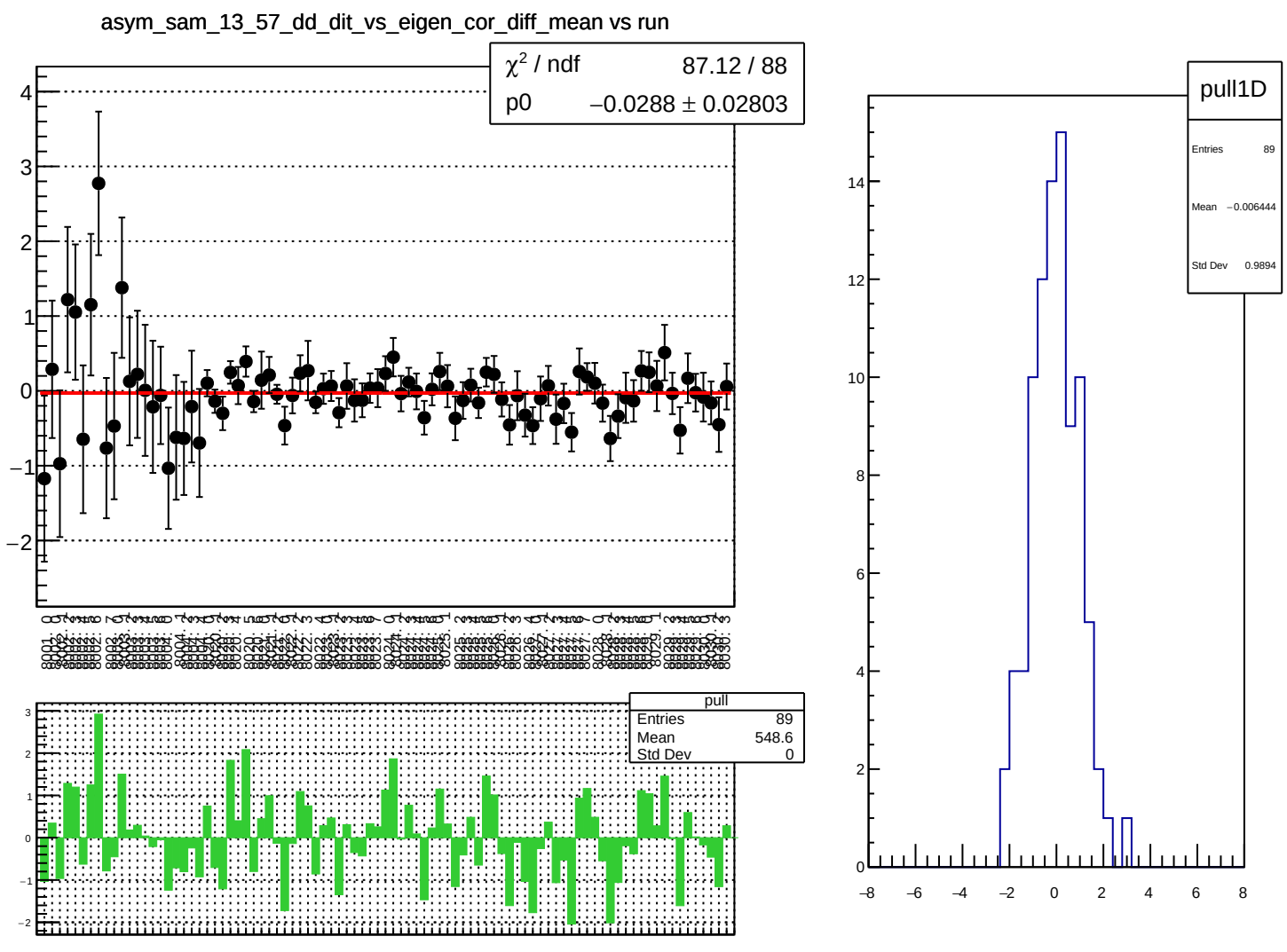

asym_sam_13_57_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 106.2 / 88
p0 3.881e−14 ± 4.011e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 89
Mean 4.775
Std Dev 0
2
1
0
−1
−2

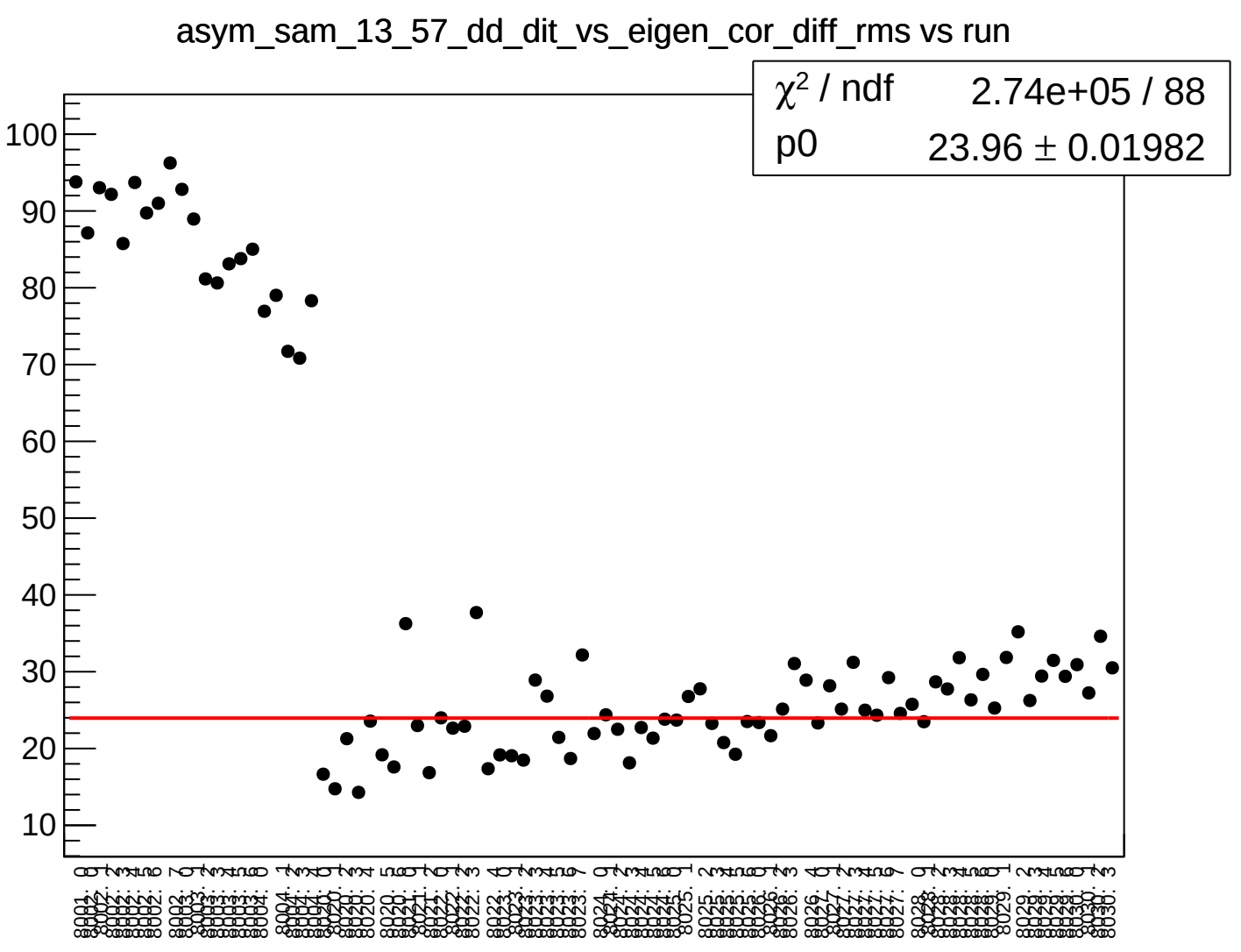

pull1D
Entries 89
Mean 0.0552
Std Dev 1.091
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

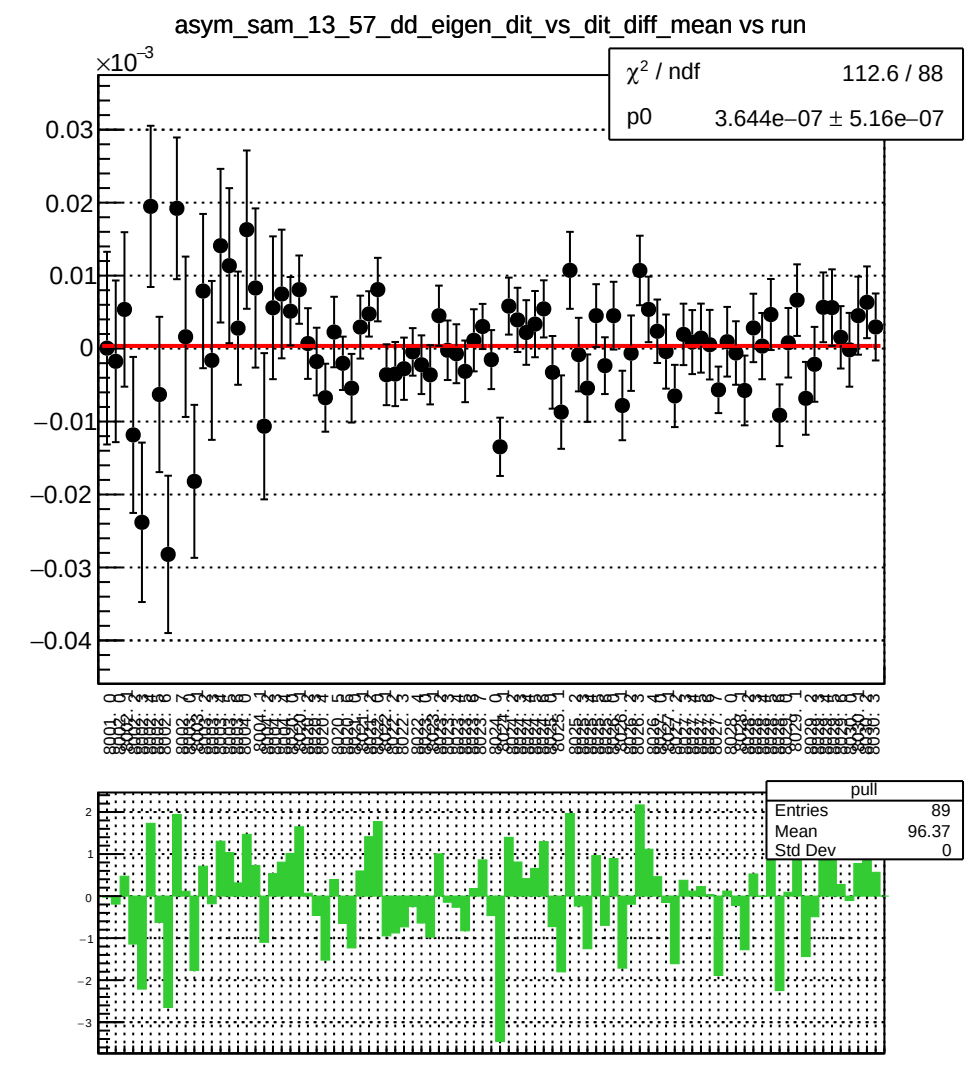

asym_sam_13_57_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.209e+06 / 88
p0 2.057e−11 ± 2.837e−14
0.05
0.04
0.03
0.02
0.01
0

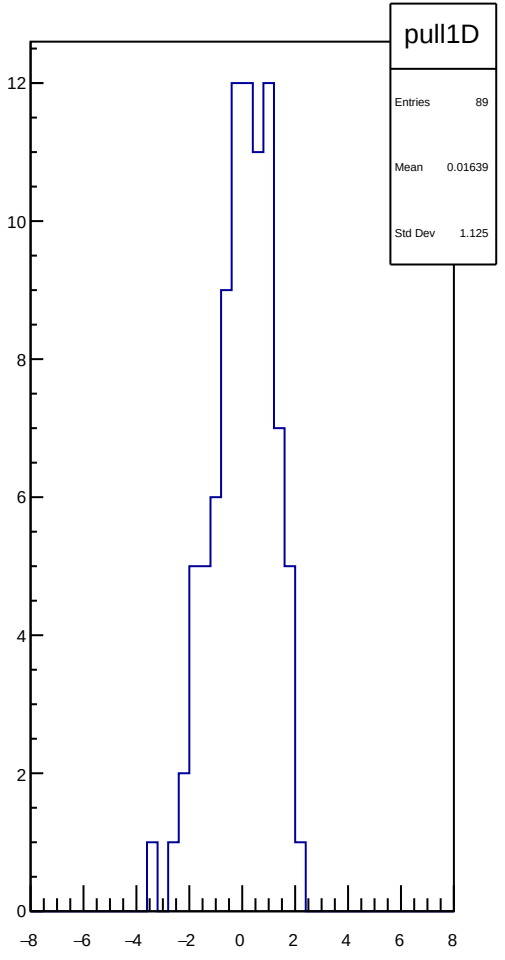

asym_sam_13_57_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 87.12 / 88
p0 −0.0288 ± 0.02803
pull
Entries 89
Mean 548.6
Std Dev 0
pull1D
Entries 89
Mean −0.006444
Std Dev 0.9894

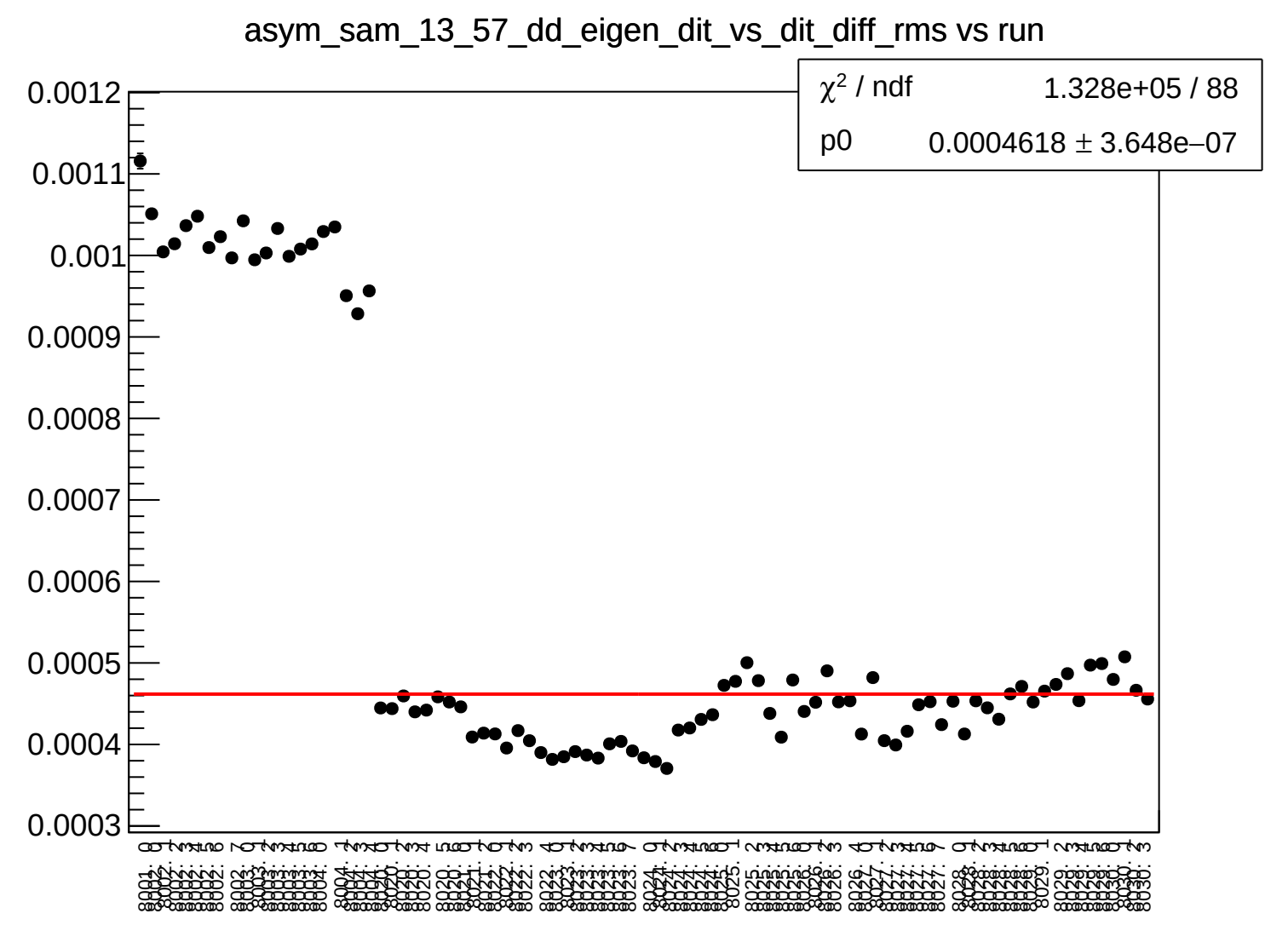

asym_sam_13_57_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.74e+05 / 88
p0 23.96 ± 0.01982
100
90
80
70
60
50
40
30
20
10

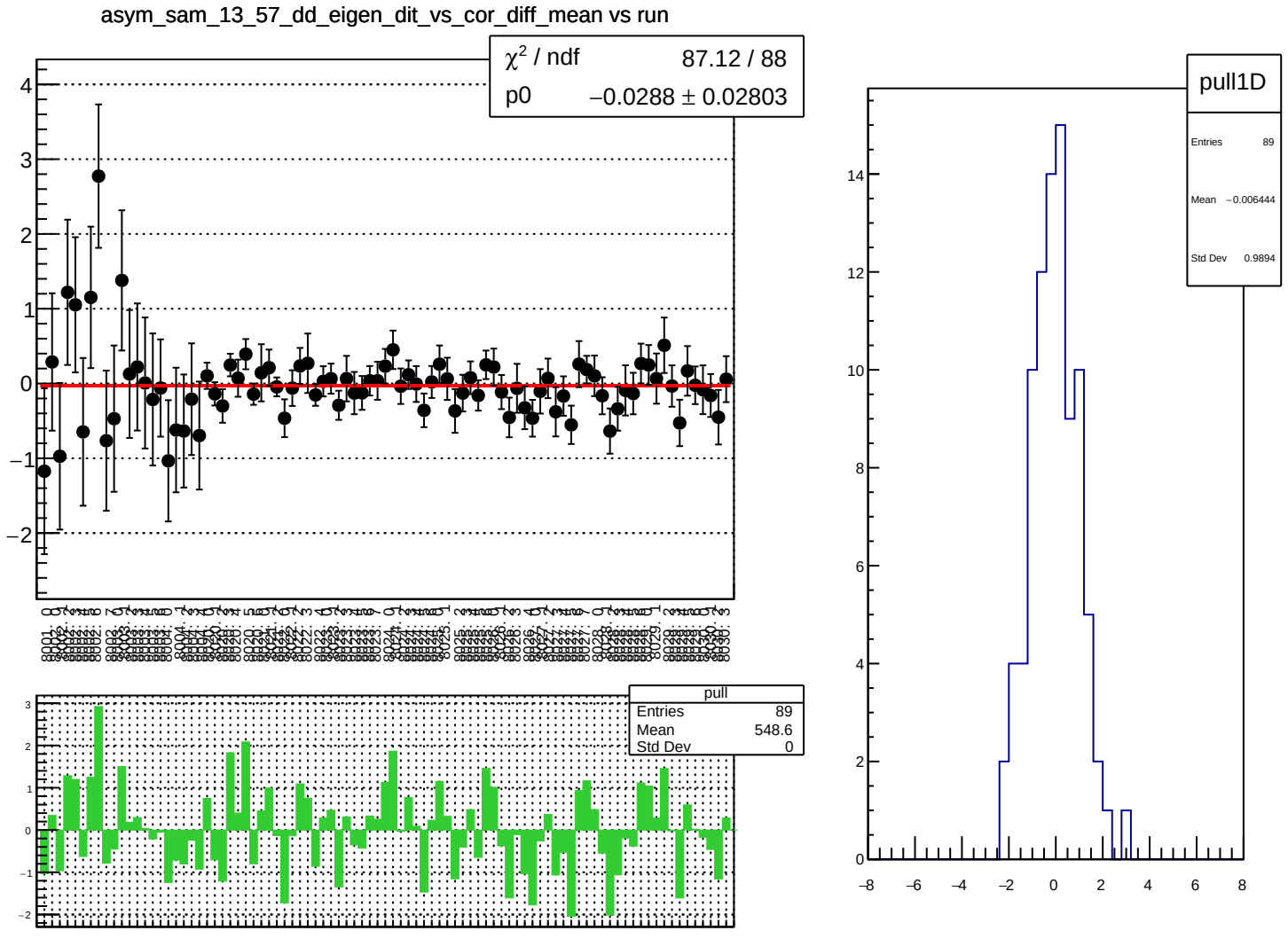

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.12 / 88
p0 −0.0288 ± 0.02803
pull
Entries 89
Mean 548.6
Std Dev 0
pull1D
Entries 89
Mean −0.006444
Std Dev 0.9894

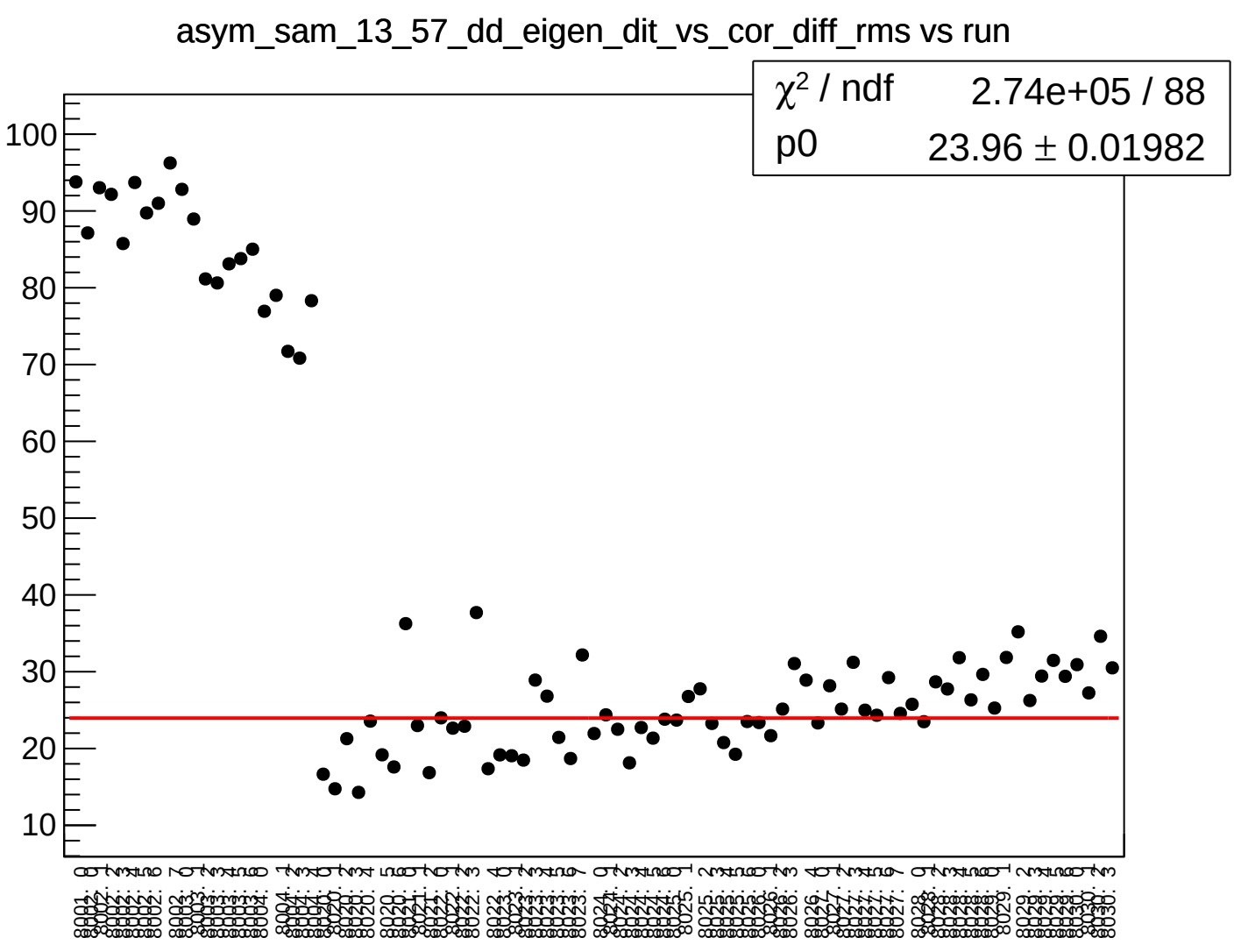

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.74e+05 / 88
p0 23.96 ± 0.01982
100
90
80
70
60
50
40
30
20
10

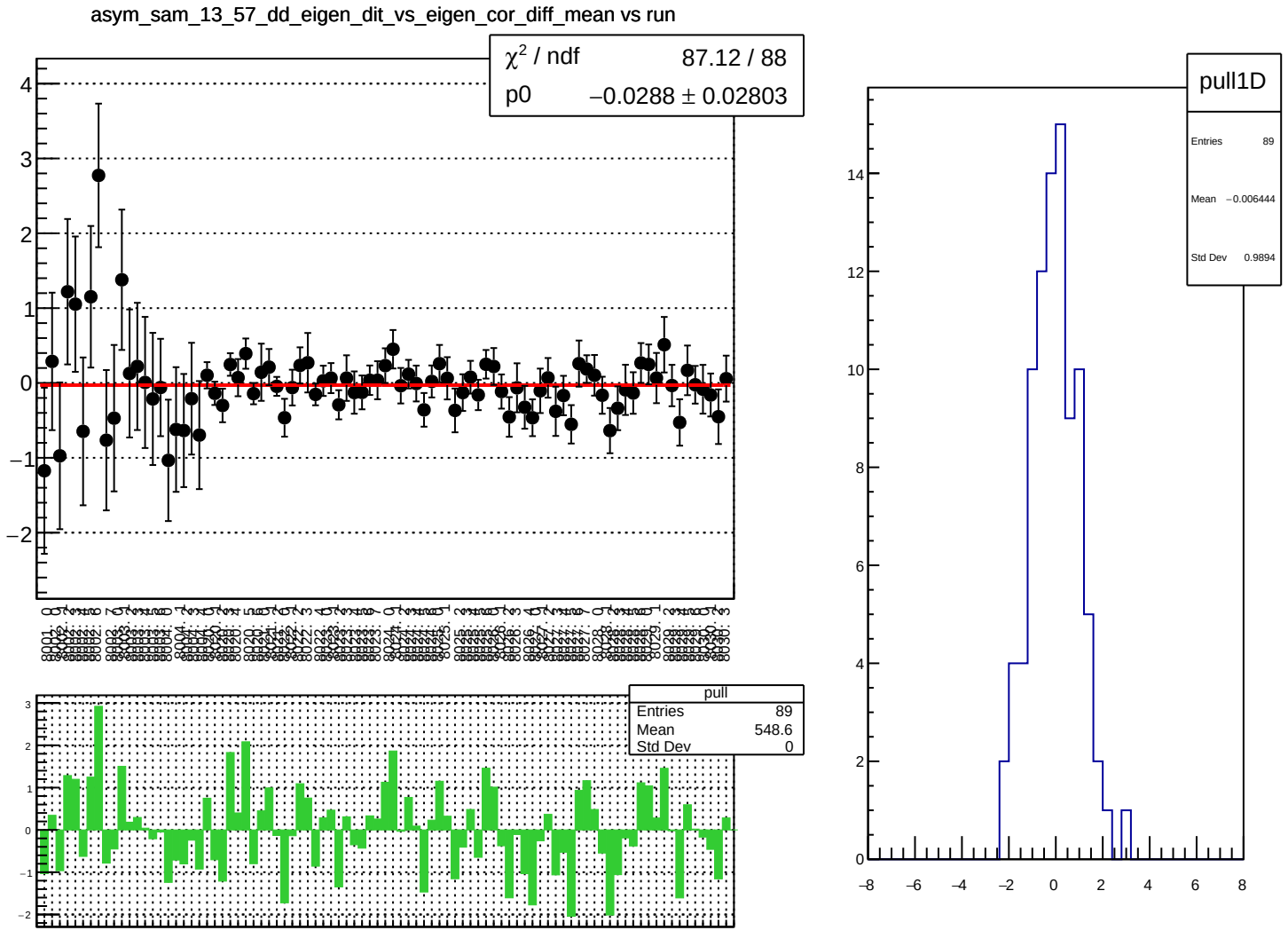

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 112.6 / 88
p0 3.644e−07 ± 5.16e−07
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 89
Mean 96.37
Std Dev 0
2
1
0
−1
−2
−3

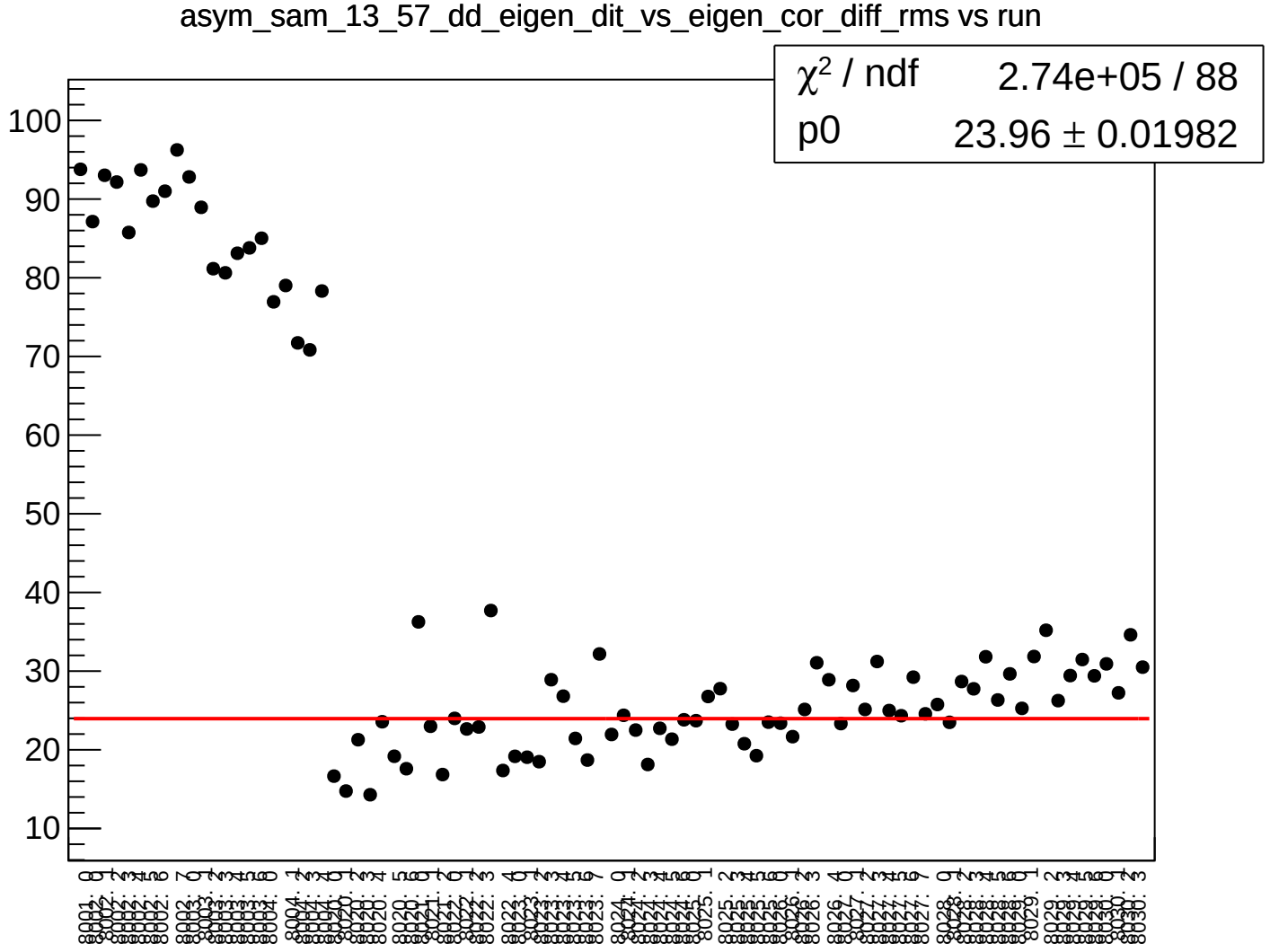

pull1D
Entries 89
Mean 0.01639
Std Dev 1.125
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

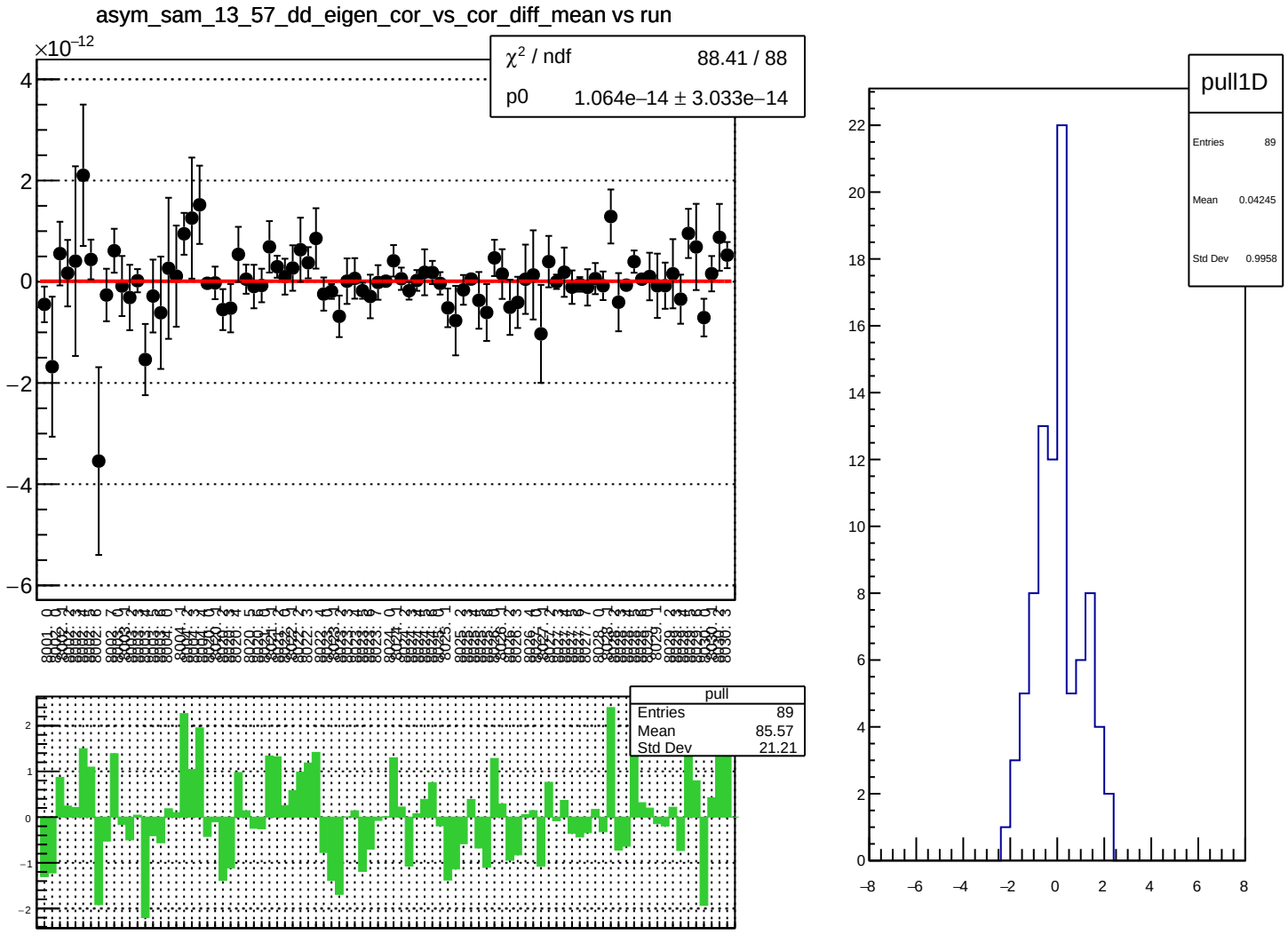

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.328e+05 / 88
p0 0.0004618 ± 3.648e−07
0.0012
0.0011
0.001
0.0009
0.0008
0.0007
0.0006
0.0005
0.0004
0.0003

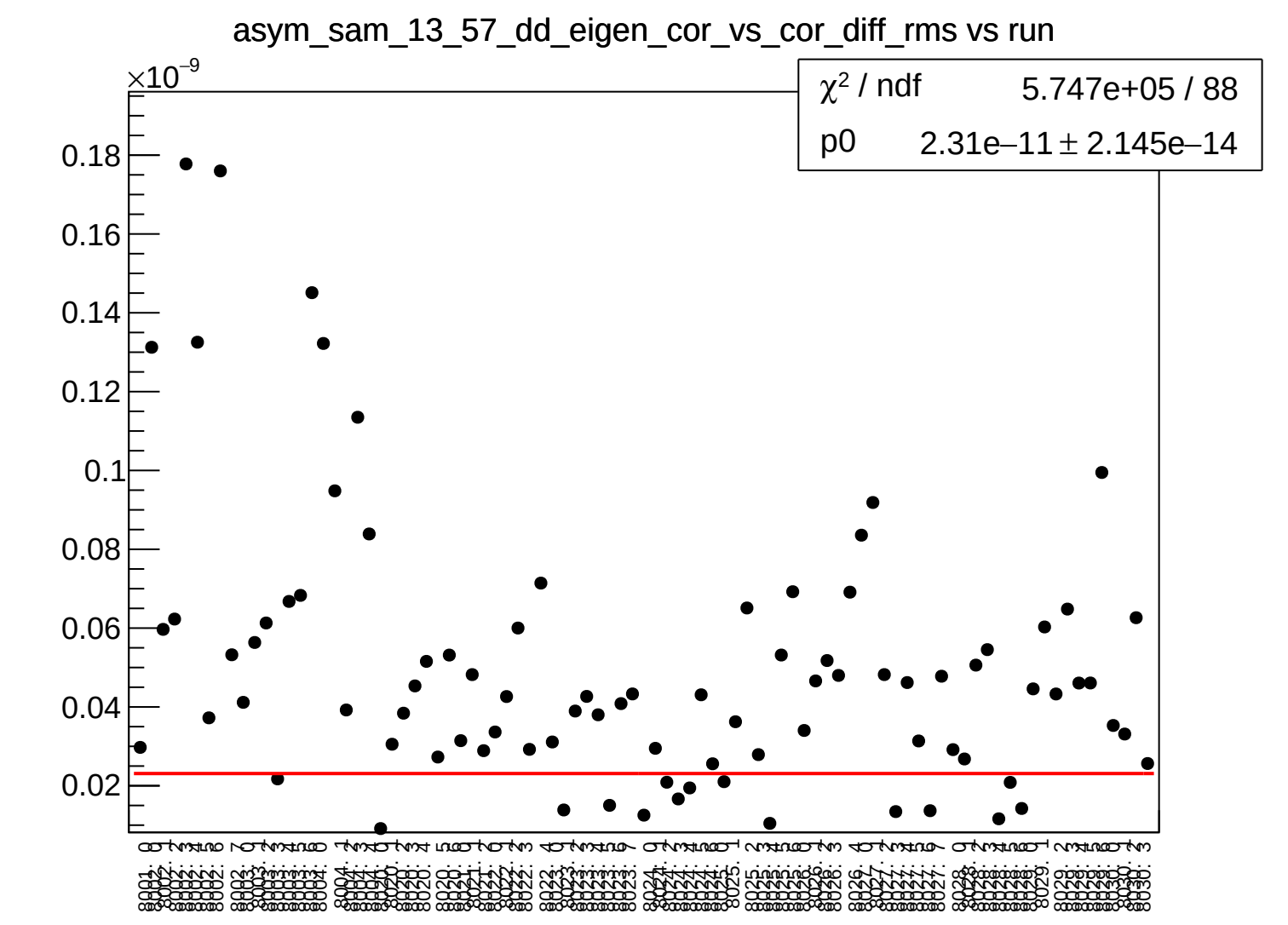

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.12 / 88
p0 −0.0288 ± 0.02803
pull
Entries 89
Mean 548.6
Std Dev 0
pull1D
Entries 89
Mean −0.006444
Std Dev 0.9894

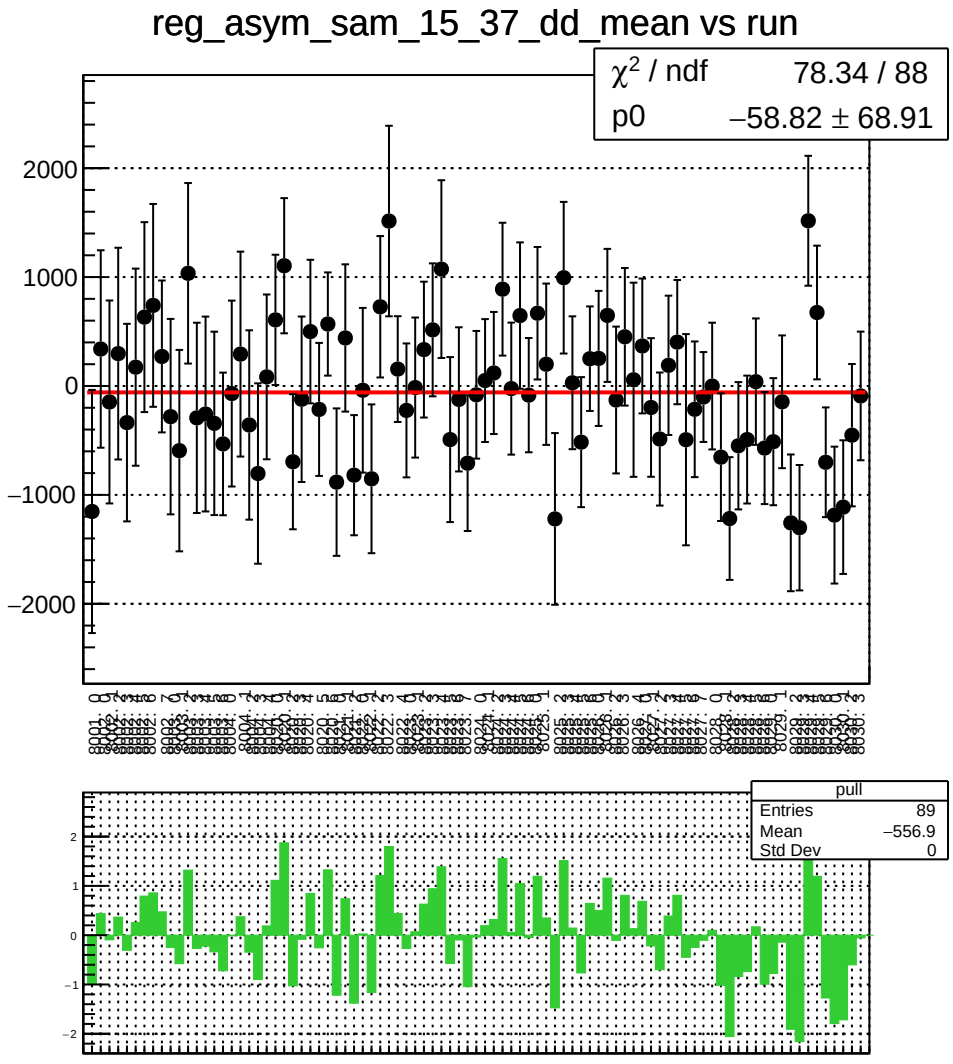

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.74e+05 / 88
p0 23.96 ± 0.01982
100
90
80
70
60
50
40
30
20
10

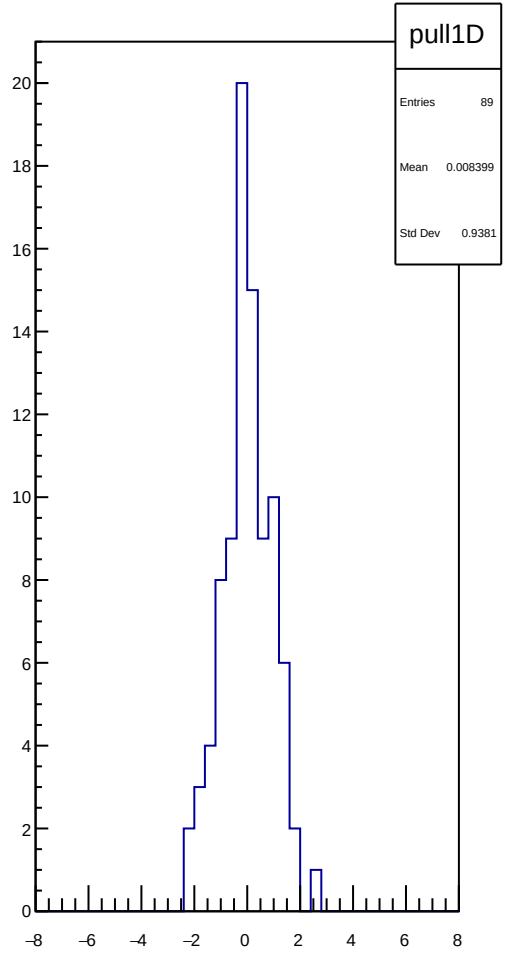

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.12 / 88
p0 −0.0288 ± 0.02803
pull
Entries 89
Mean 548.6
Std Dev 0
pull1D
Entries 89
Mean −0.006444
Std Dev 0.9894

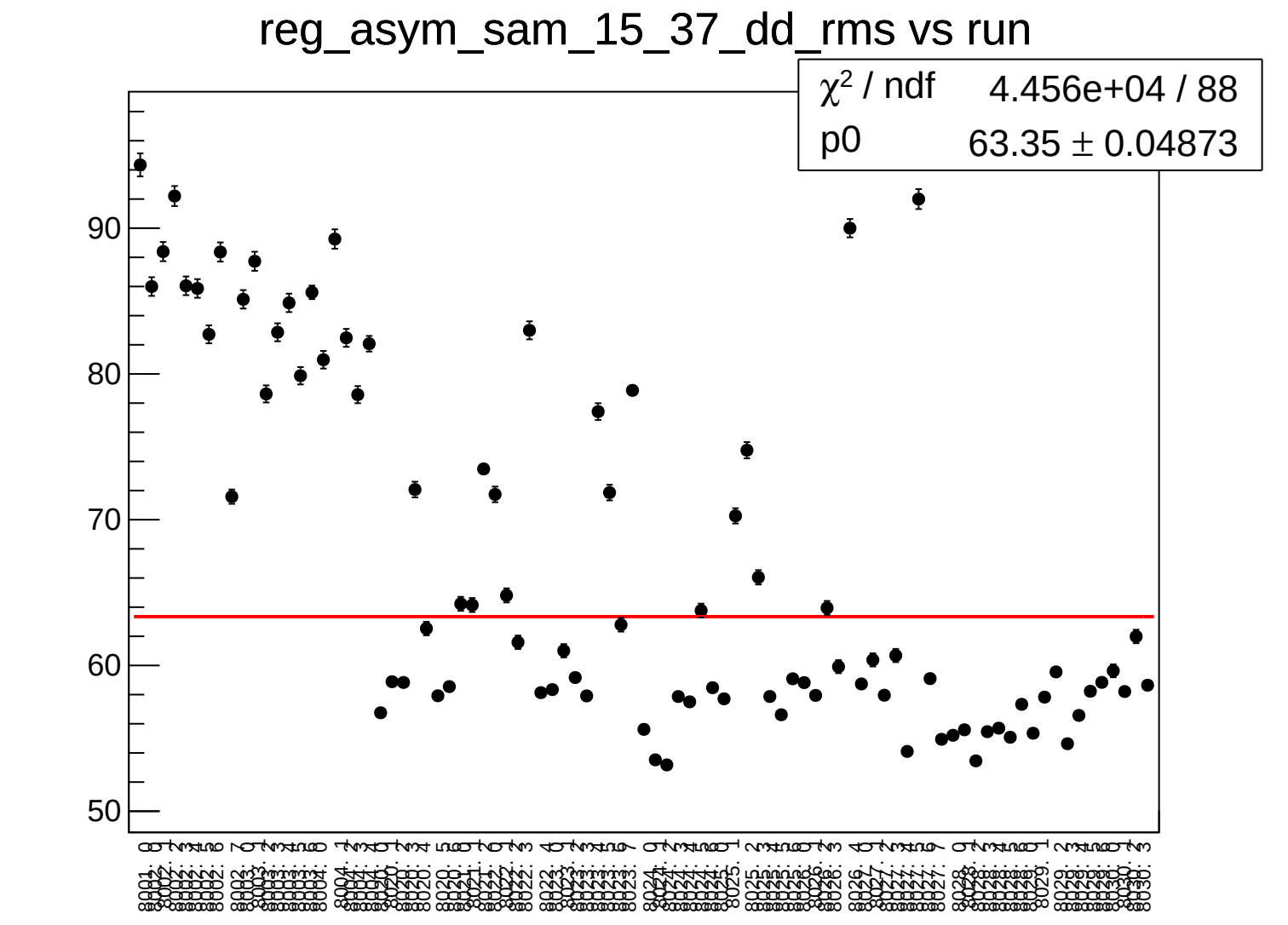

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.74e+05 / 88
p0 23.96 ± 0.01982
100
90
80
70
60
50
40
30
20
10

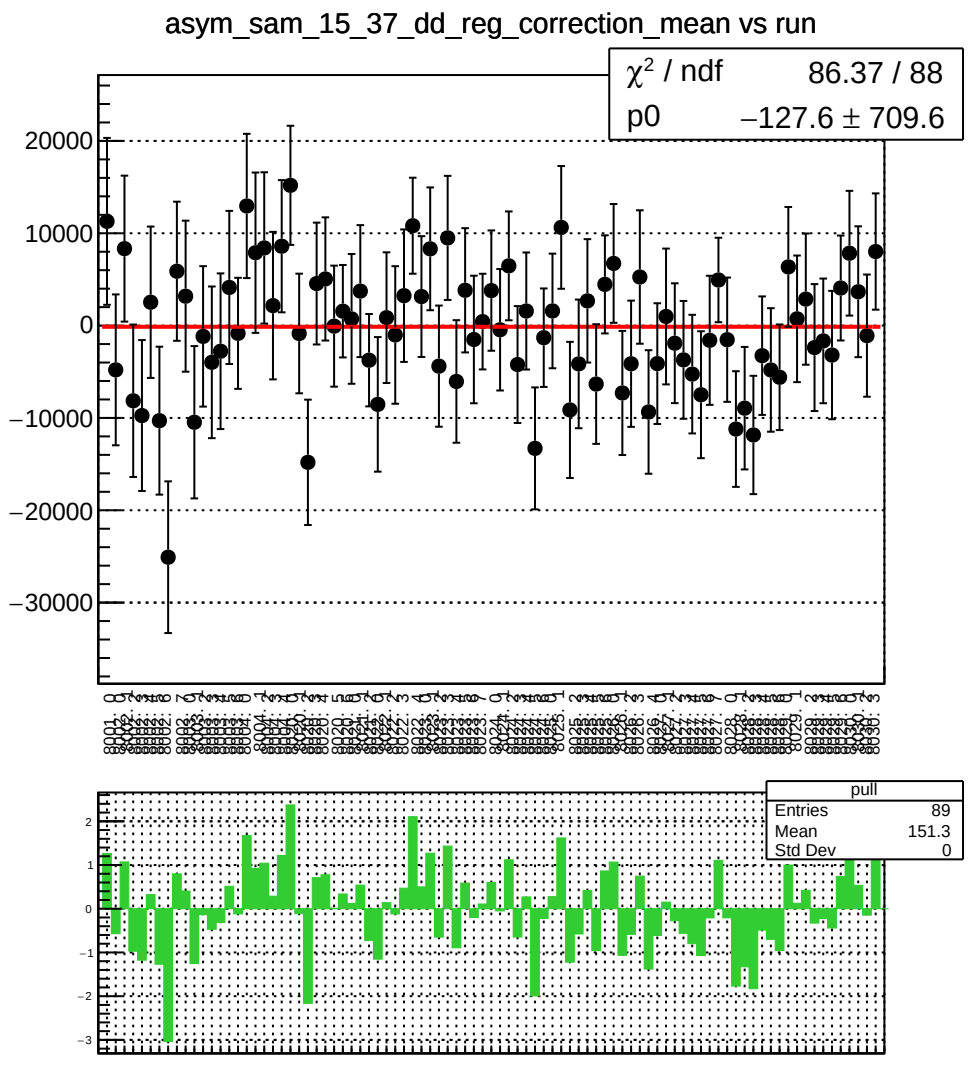

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.41 / 88
p0 1.064e−14 ± 3.033e−14
pull
Entries 89
Mean 85.57
Std Dev 21.21
pull1D
Entries 89
Mean 0.04245
Std Dev 0.9958

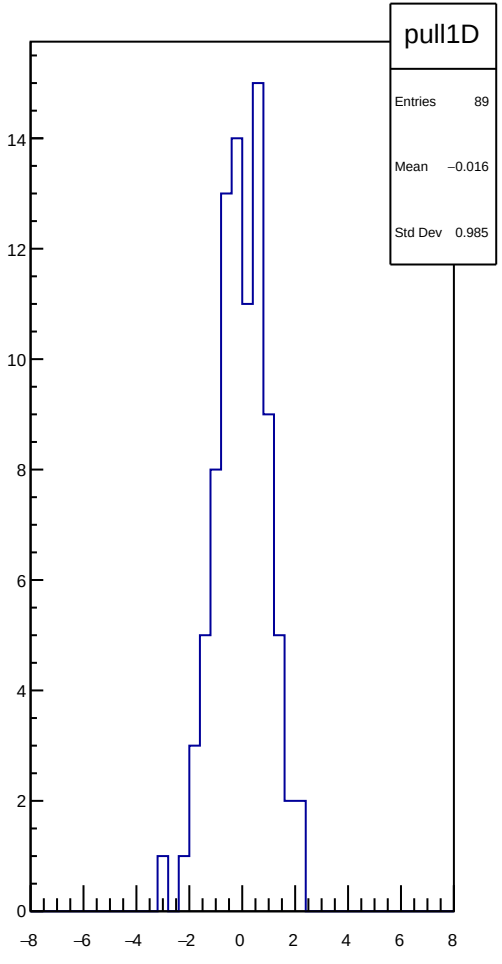

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.747e+05 / 88
p0 2.31e−11 ± 2.145e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

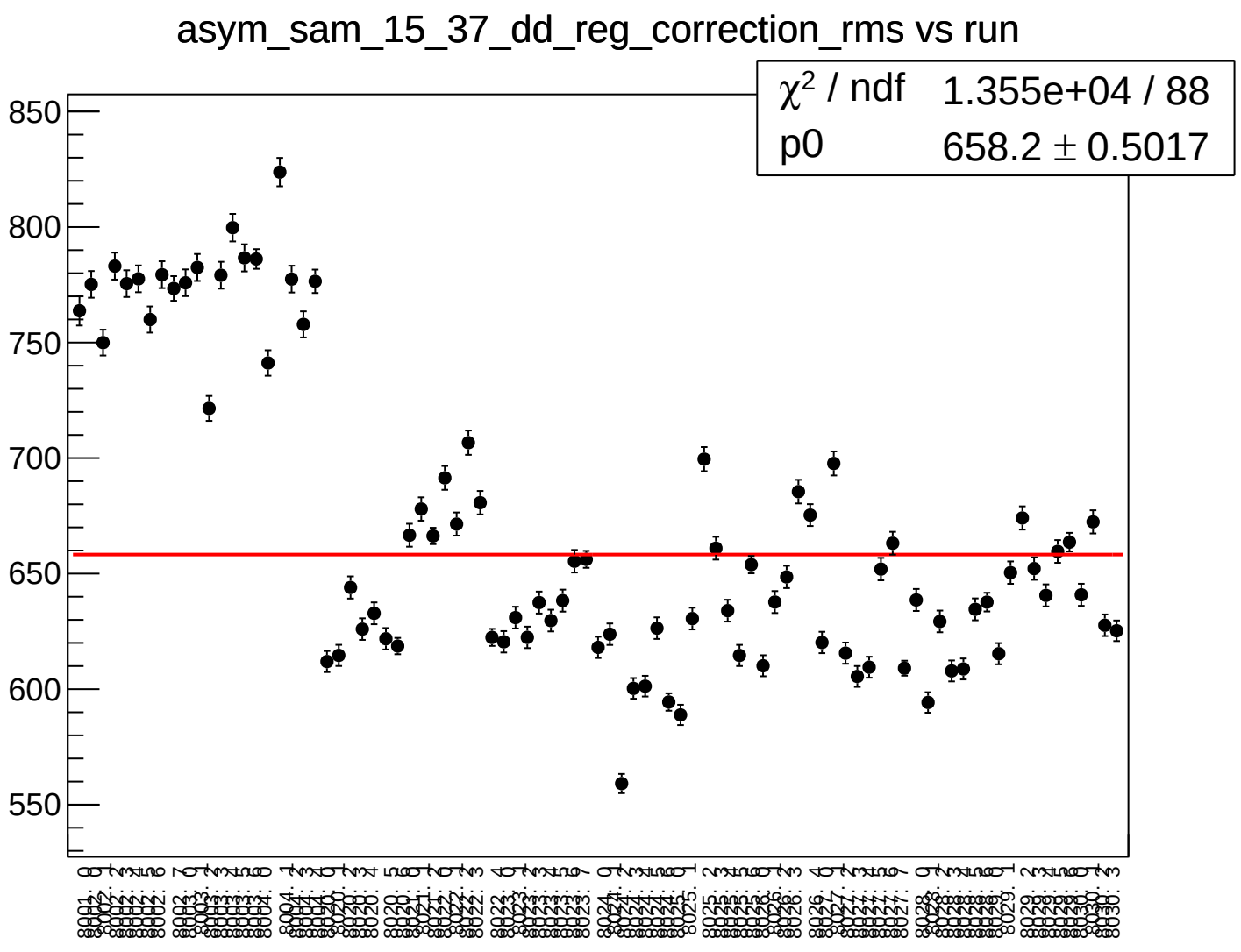

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 78.34 / 88
p0 −58.82 ± 68.91
2000
1000
0
−1000
−2000
pull
Entries 89
Mean −556.9
Std Dev 0
2
1
0
−1
−2

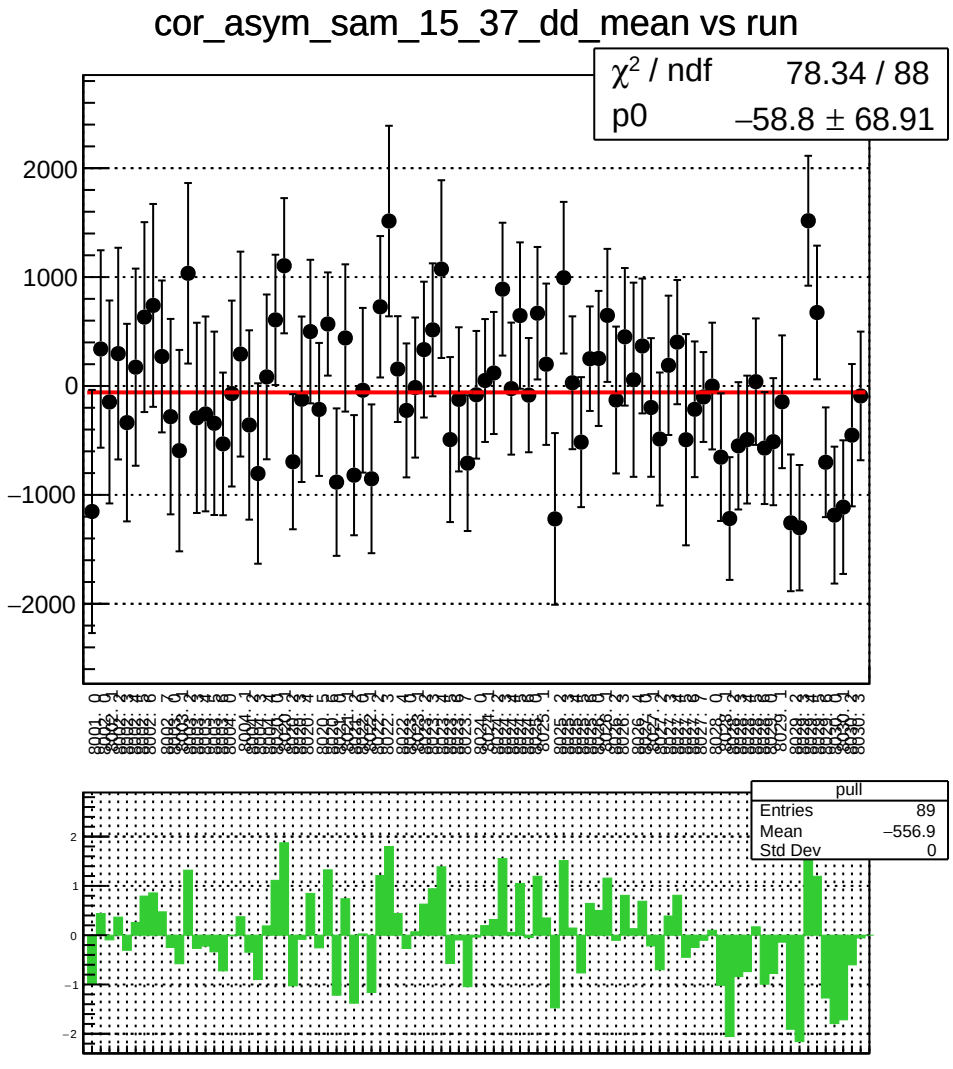

pull1D
Entries 89
Mean 0.008399
Std Dev 0.9381
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

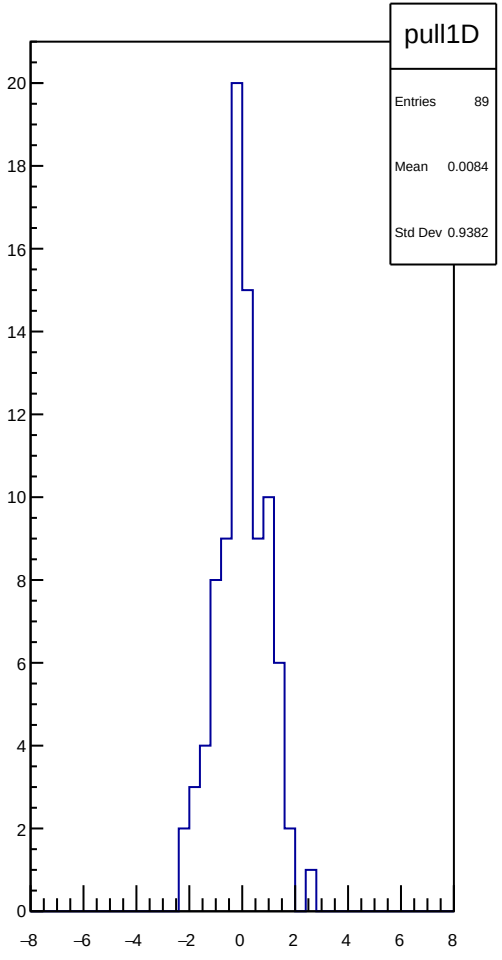

reg_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 4.456e+04 / 88
p0 63.35 ± 0.04873
90
80
70
60
50

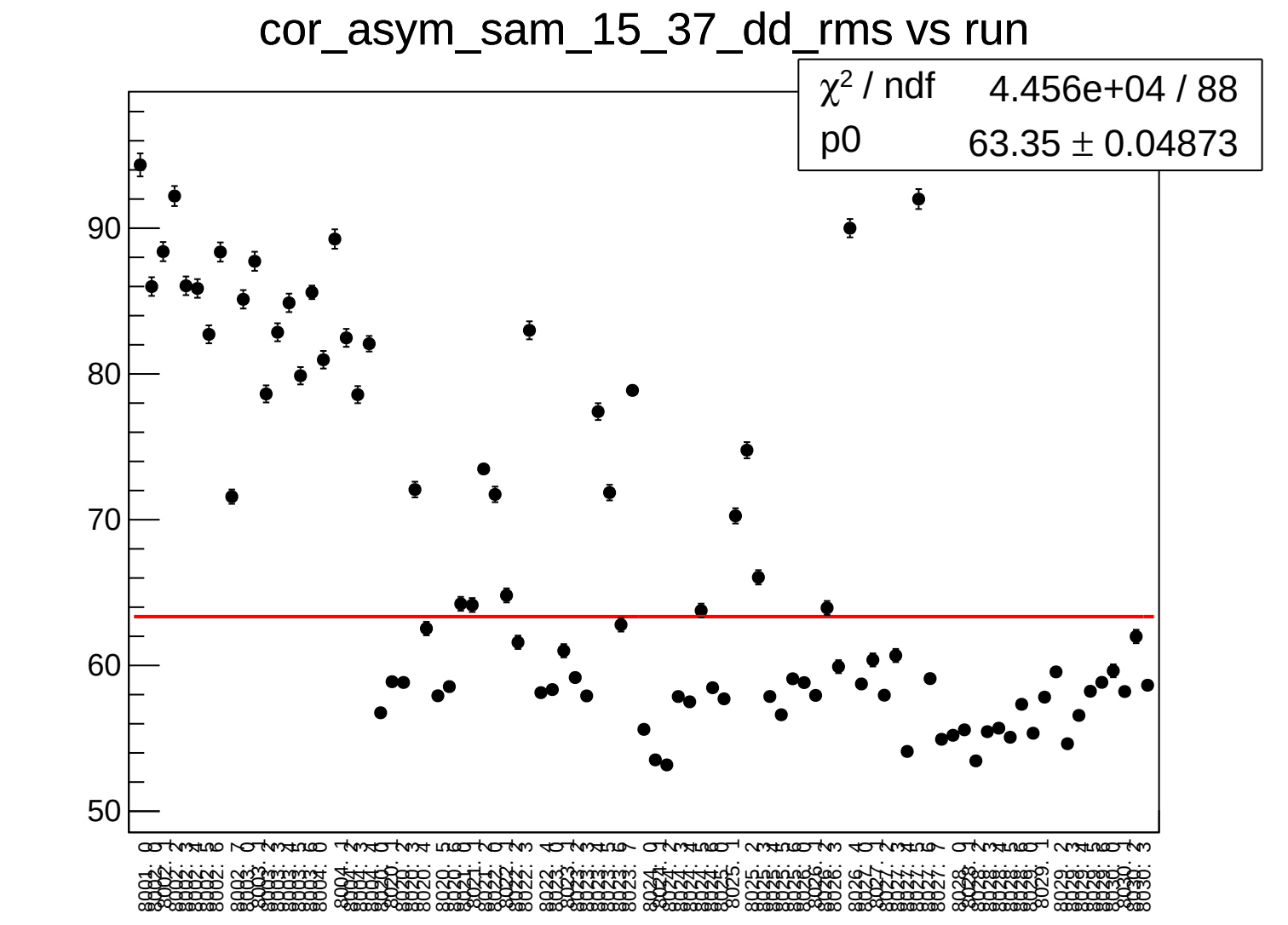

asym_sam_15_37_dd_reg_correction_mean vs run
χ² / ndf 86.37 / 88
p0 −127.6 ± 709.6
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 151.3
Std Dev 0
2
1
0
−1
−2
−3

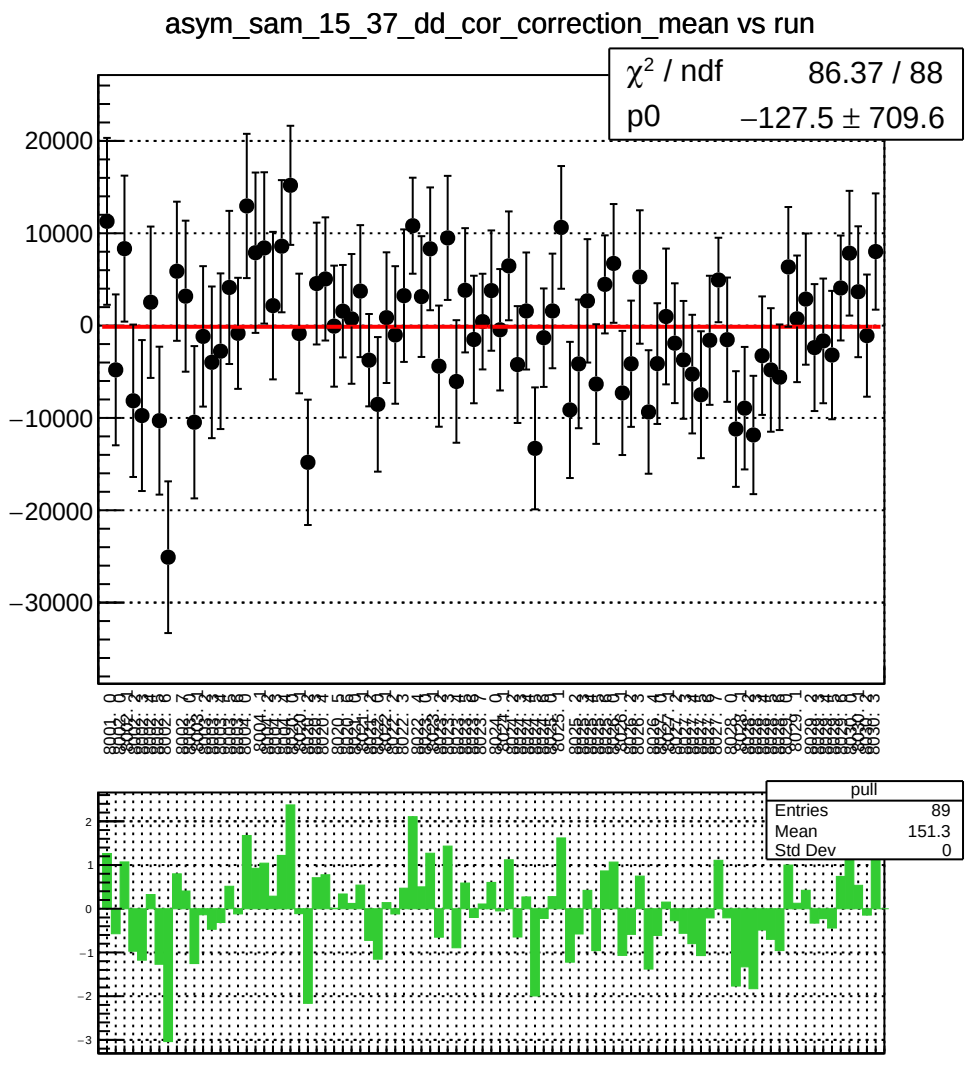

pull1D
Entries 89
Mean −0.016
Std Dev 0.985
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

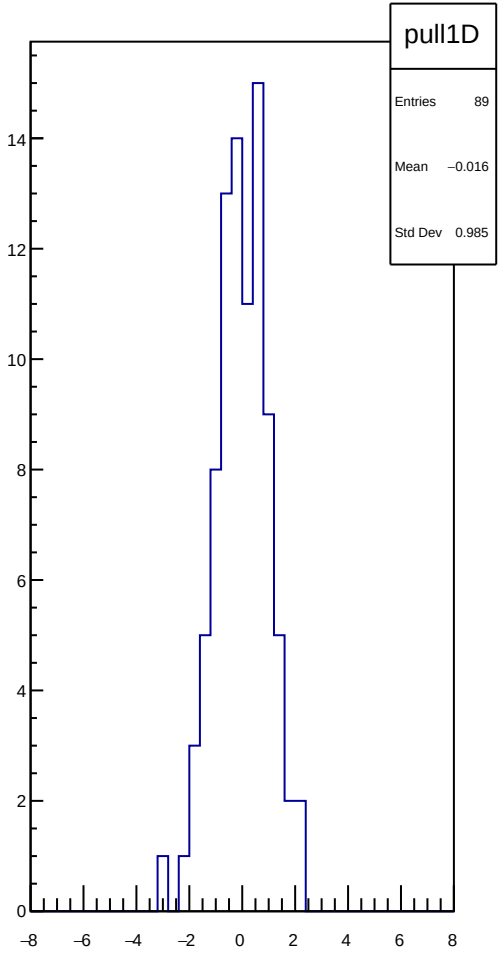

asym_sam_15_37_dd_reg_correction_rms vs run
χ² / ndf 1.355e+04 / 88
p0 658.2 ± 0.5017
850
800
750
700
650
600
550

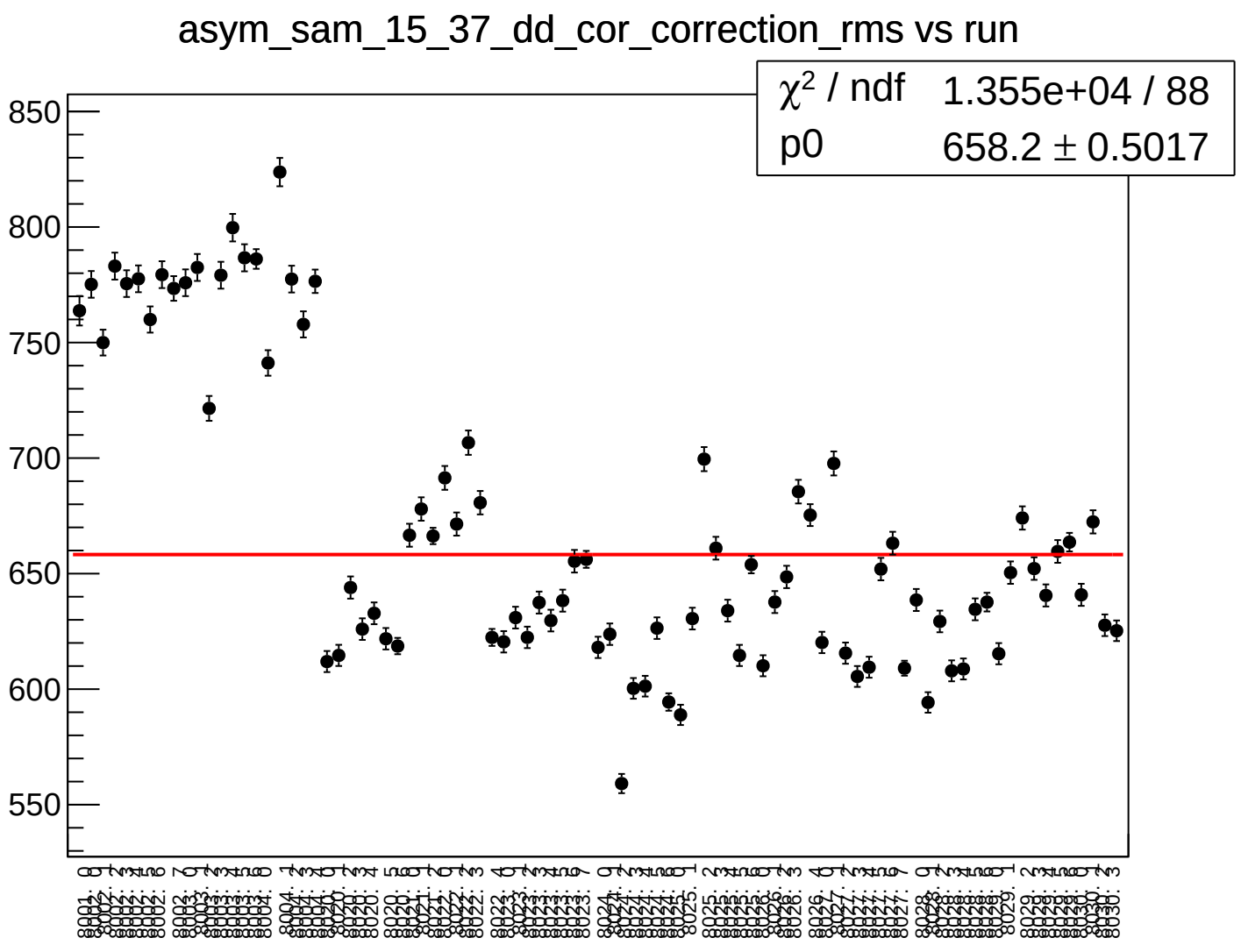

cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 78.34 / 88
p0 –58.8 ± 68.91
2000
1000
0
–1000
–2000
pull
Entries 89
Mean –556.9
Std Dev 0
2
1
0
–1
–2

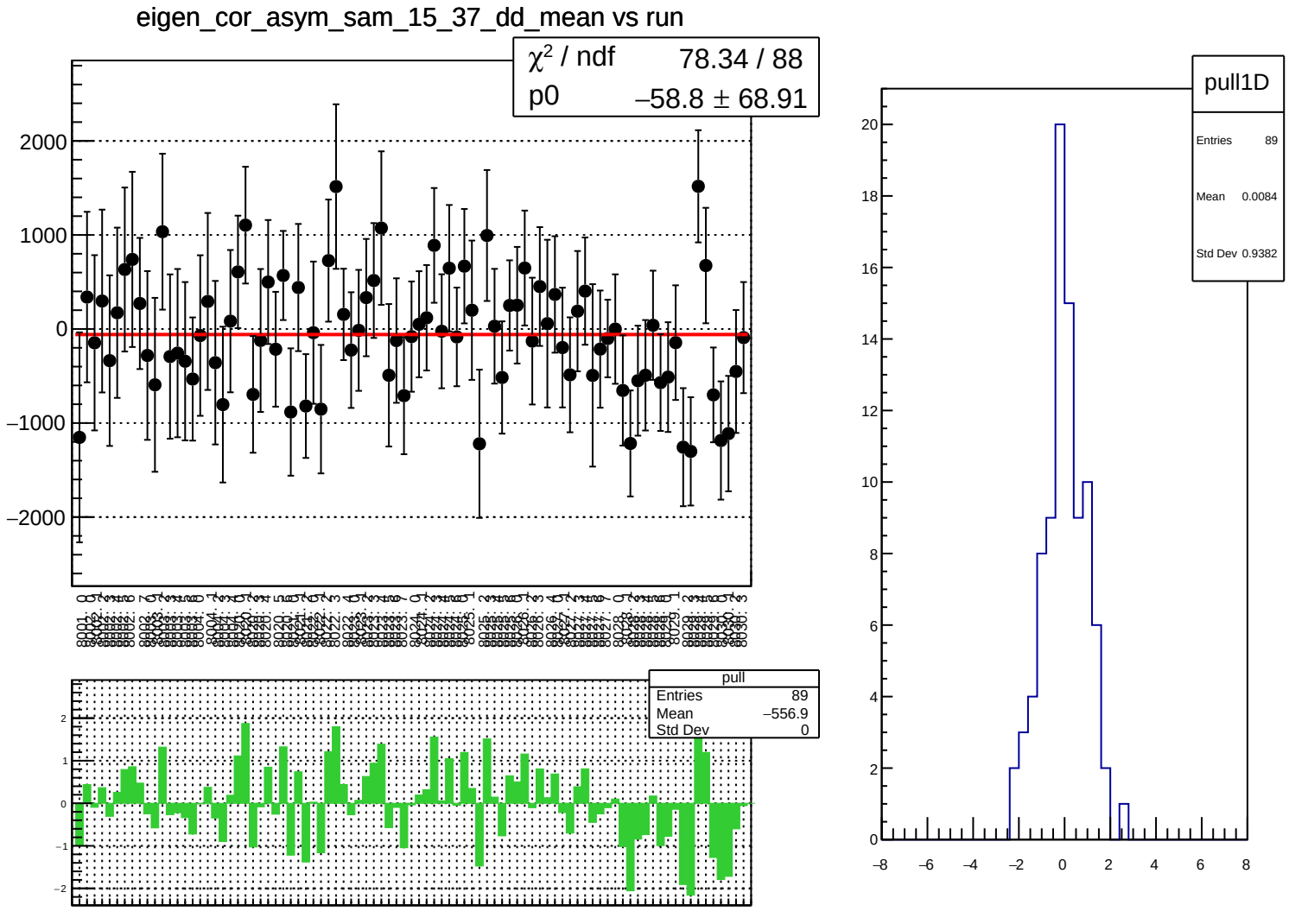

pull1D
Entries 89
Mean 0.0084
Std Dev 0.9382
20
18
16
14
12
10
8
6
4
2
0
–8
–6
–4
–2
0
2
4
6
8

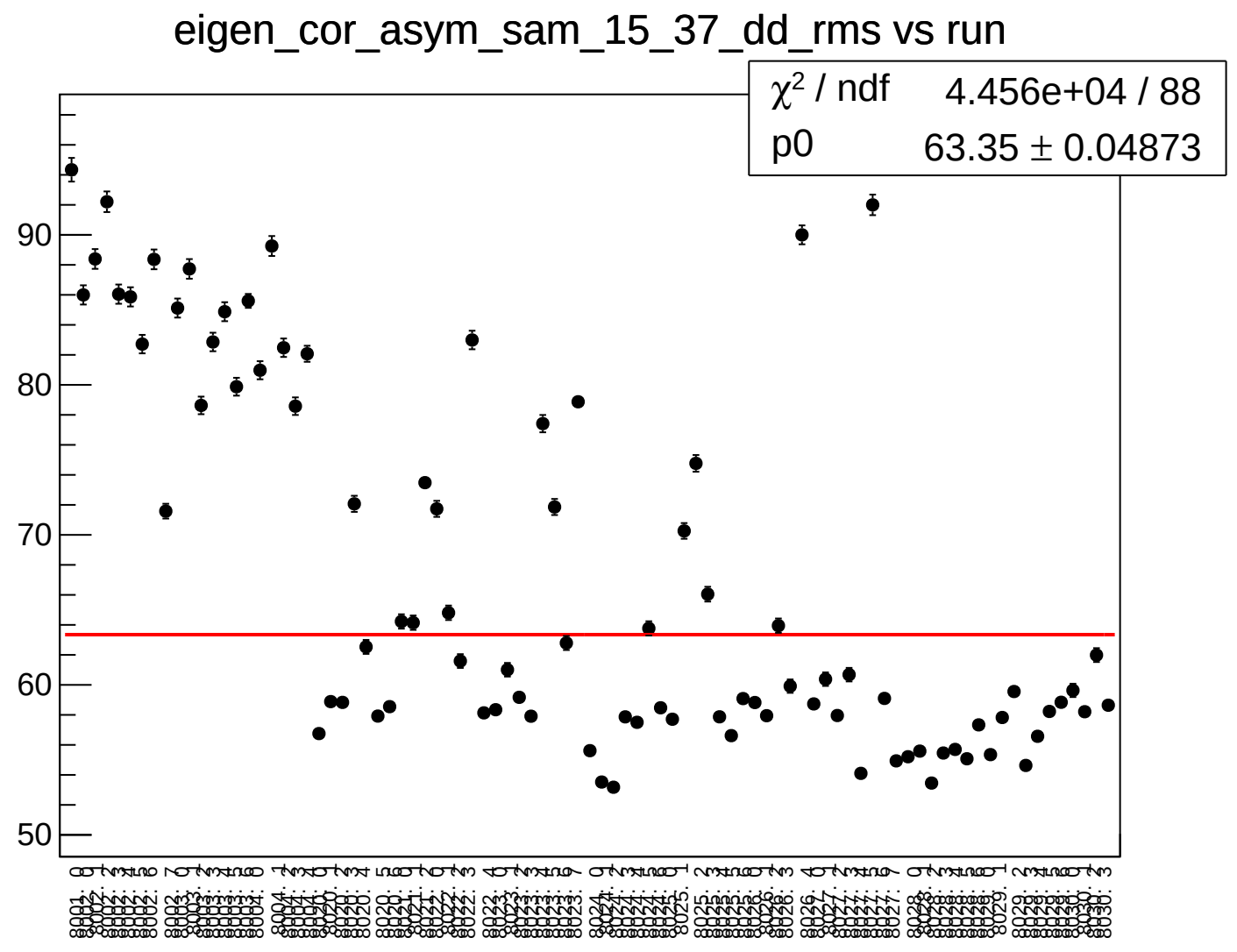

cor_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 4.456e+04 / 88
p0 63.35 ± 0.04873
90
80
70
60
50

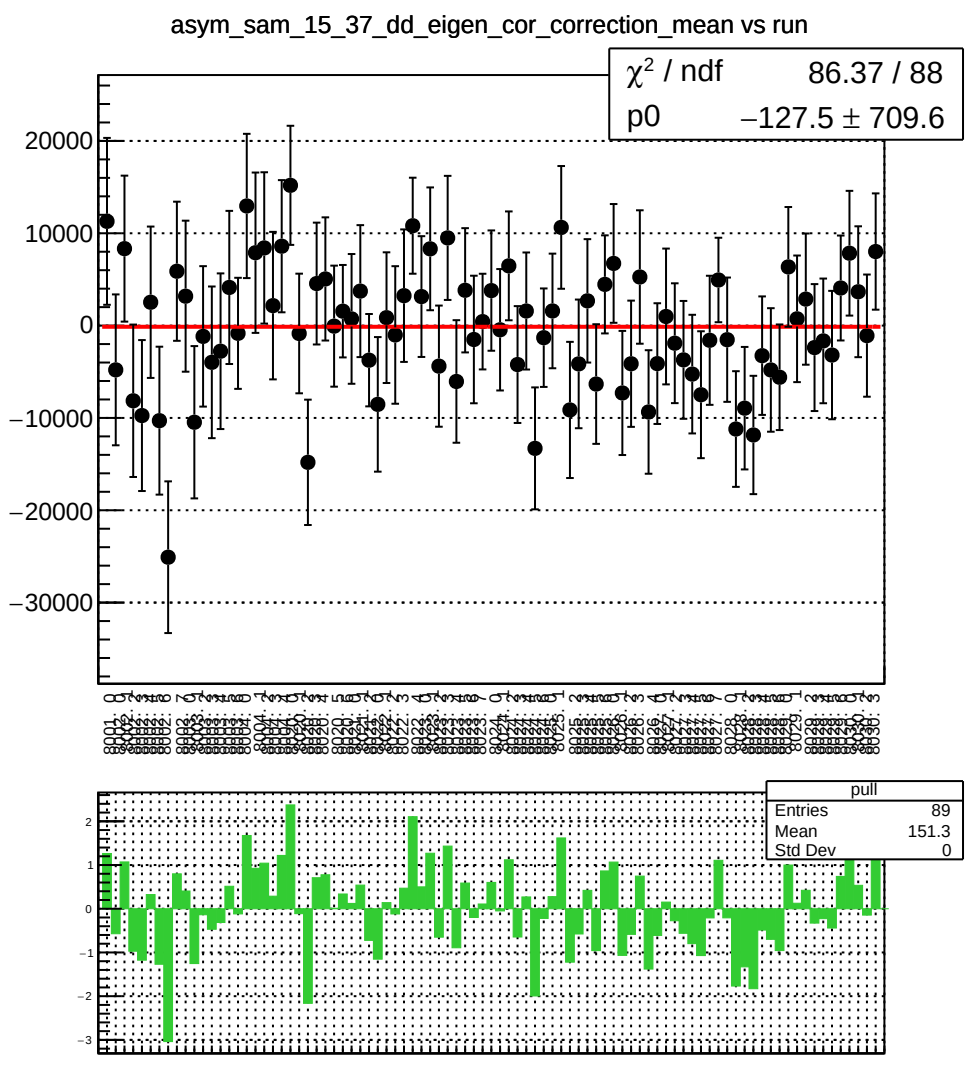

asym_sam_15_37_dd_cor_correction_mean vs run
χ² / ndf 86.37 / 88
p0 −127.5 ± 709.6
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 151.3
Std Dev 0
2
1
0
−1
−2
−3

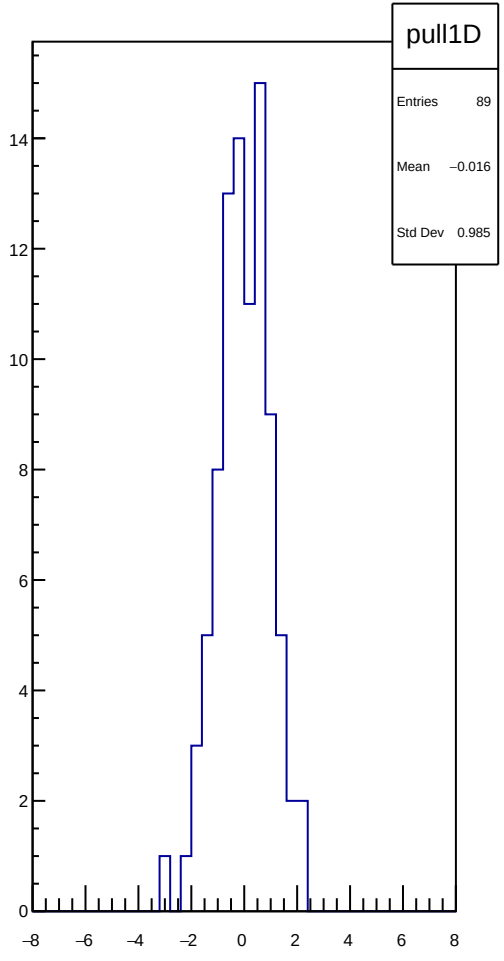

pull1D
Entries 89
Mean −0.016
Std Dev 0.985
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

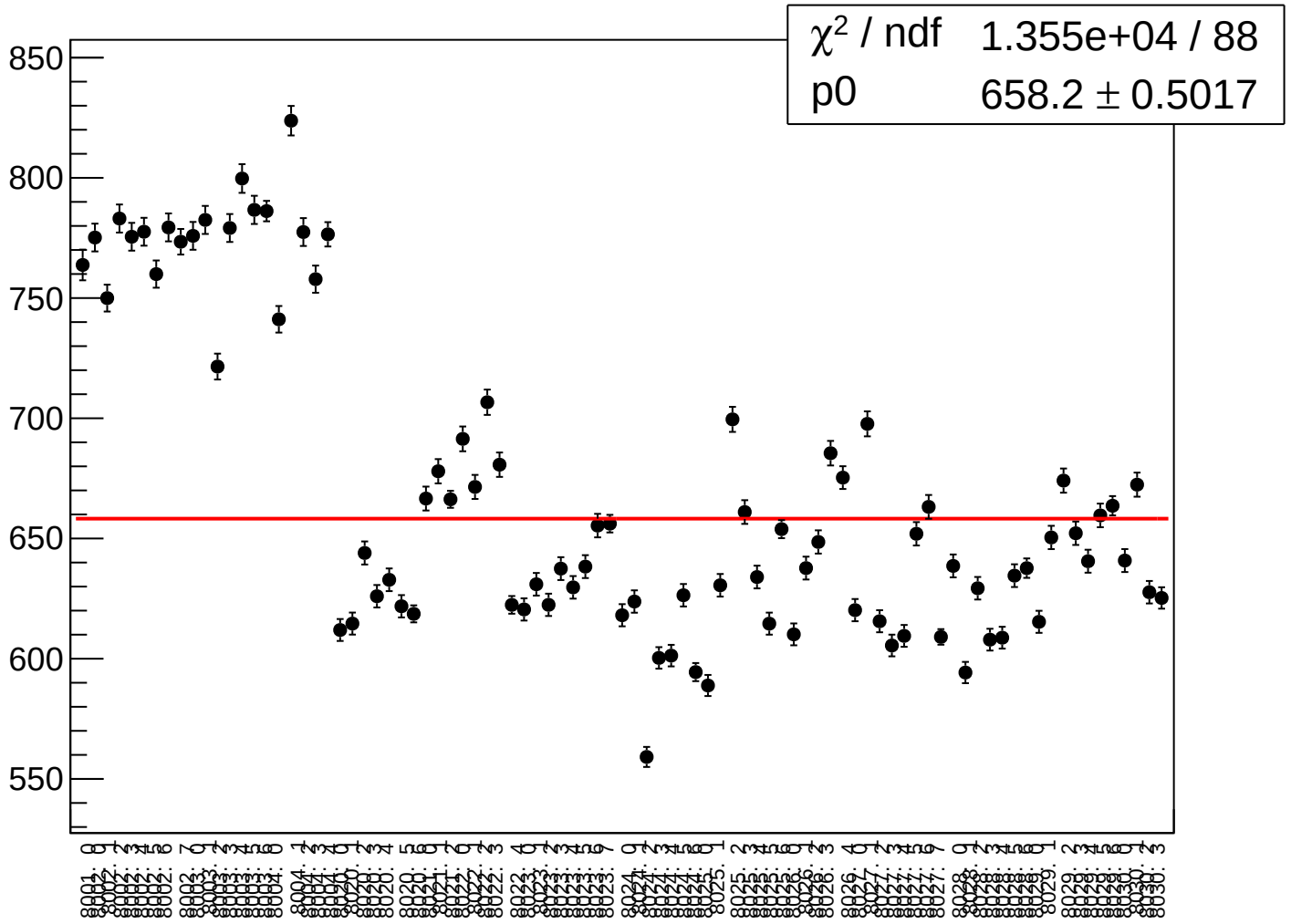

asym_sam_15_37_dd_cor_correction_rms vs run
χ² / ndf 1.355e+04 / 88
p0 658.2 ± 0.5017
850
800
750
700
650
600
550

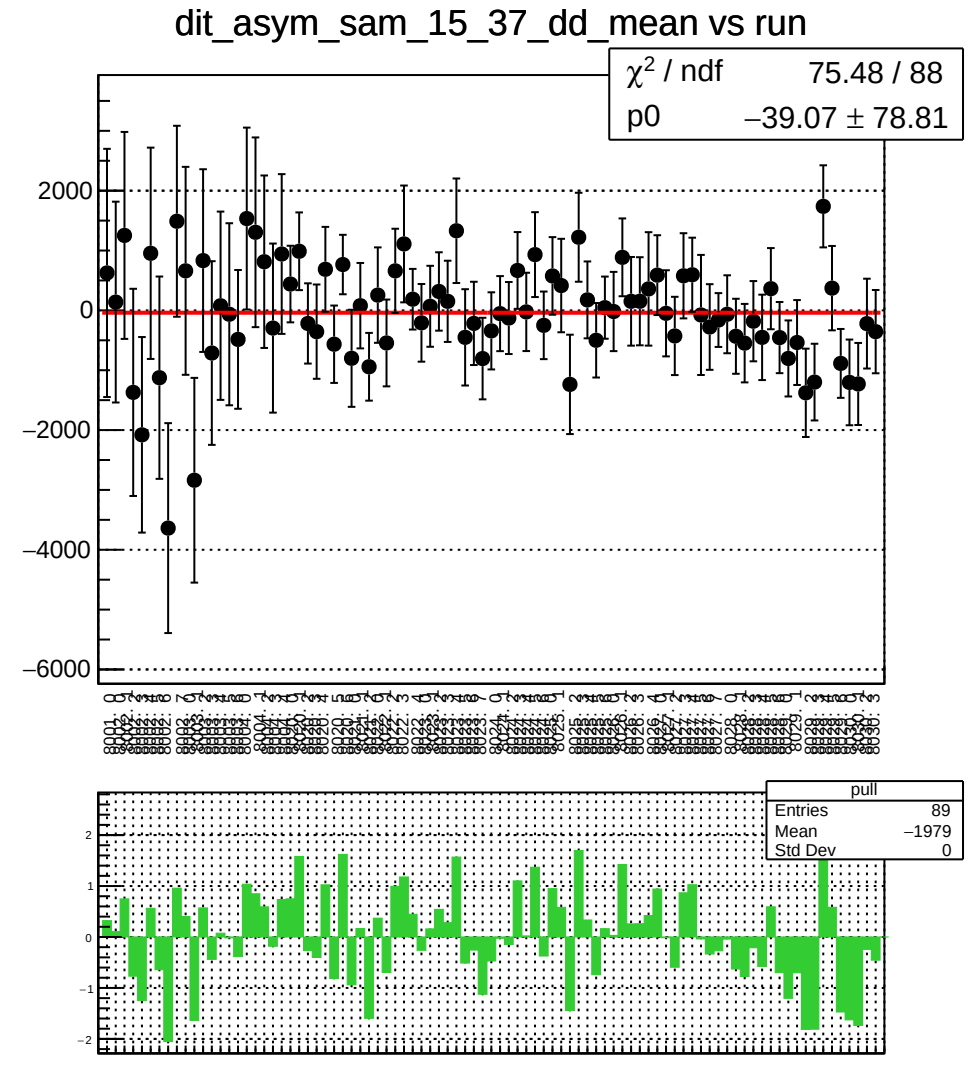

eigen_cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 78.34 / 88
p0 –58.8 ± 68.91
2000
1000
0
–1000
–2000
pull
Entries 89
Mean –556.9
Std Dev 0
pull1D
Entries 89
Mean 0.0084
Std Dev 0.9382

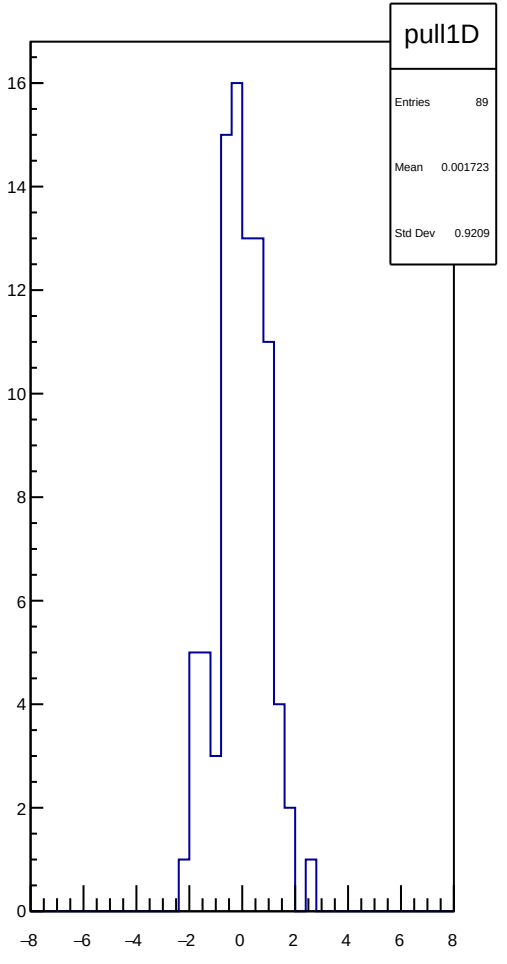

eigen_cor_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 4.456e+04 / 88
p0 63.35 ± 0.04873
90
80
70
60
50

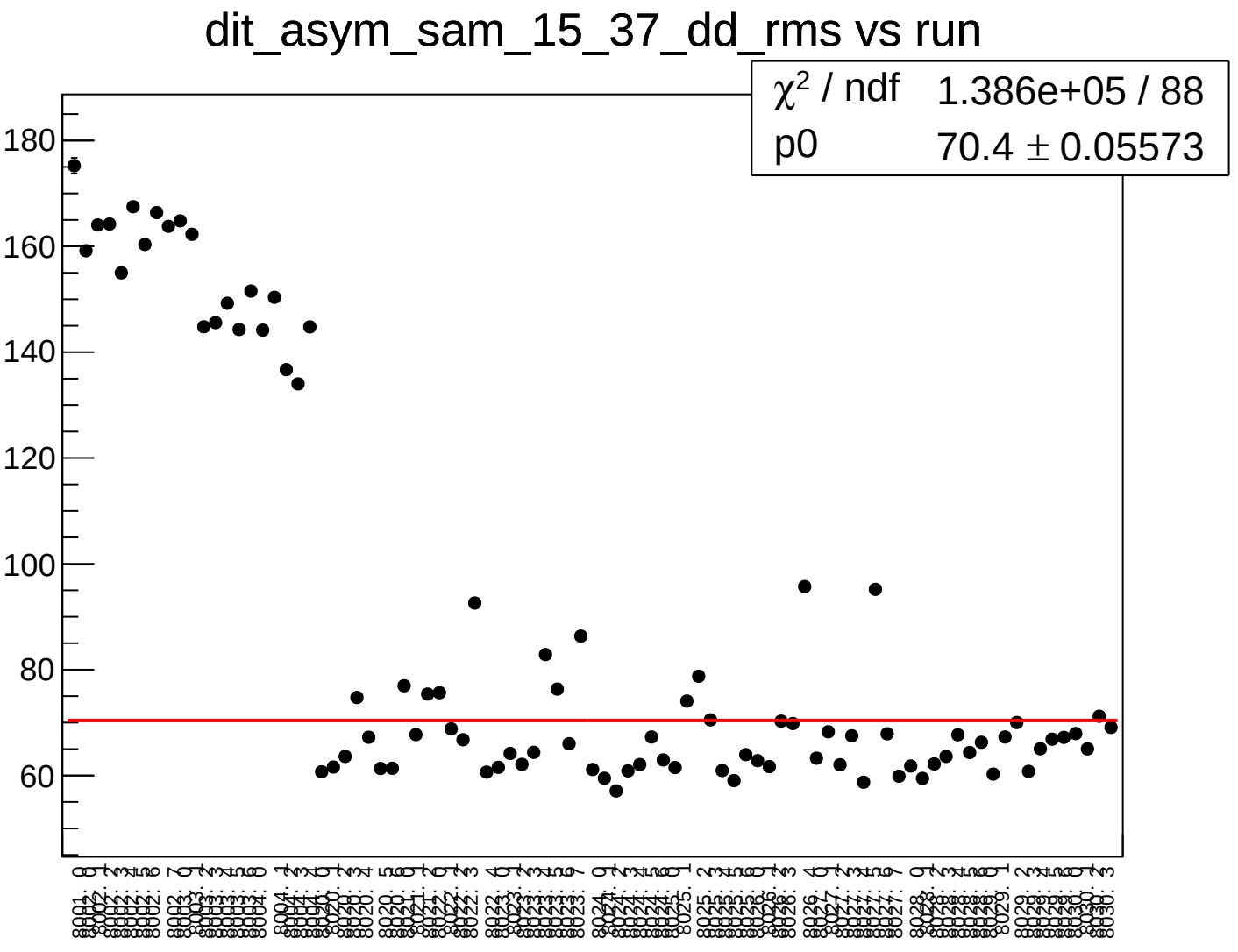

asym_sam_15_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 86.37 / 88
p0 −127.5 ± 709.6
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 151.3
Std Dev 0
2
1
0
−1
−2
−3

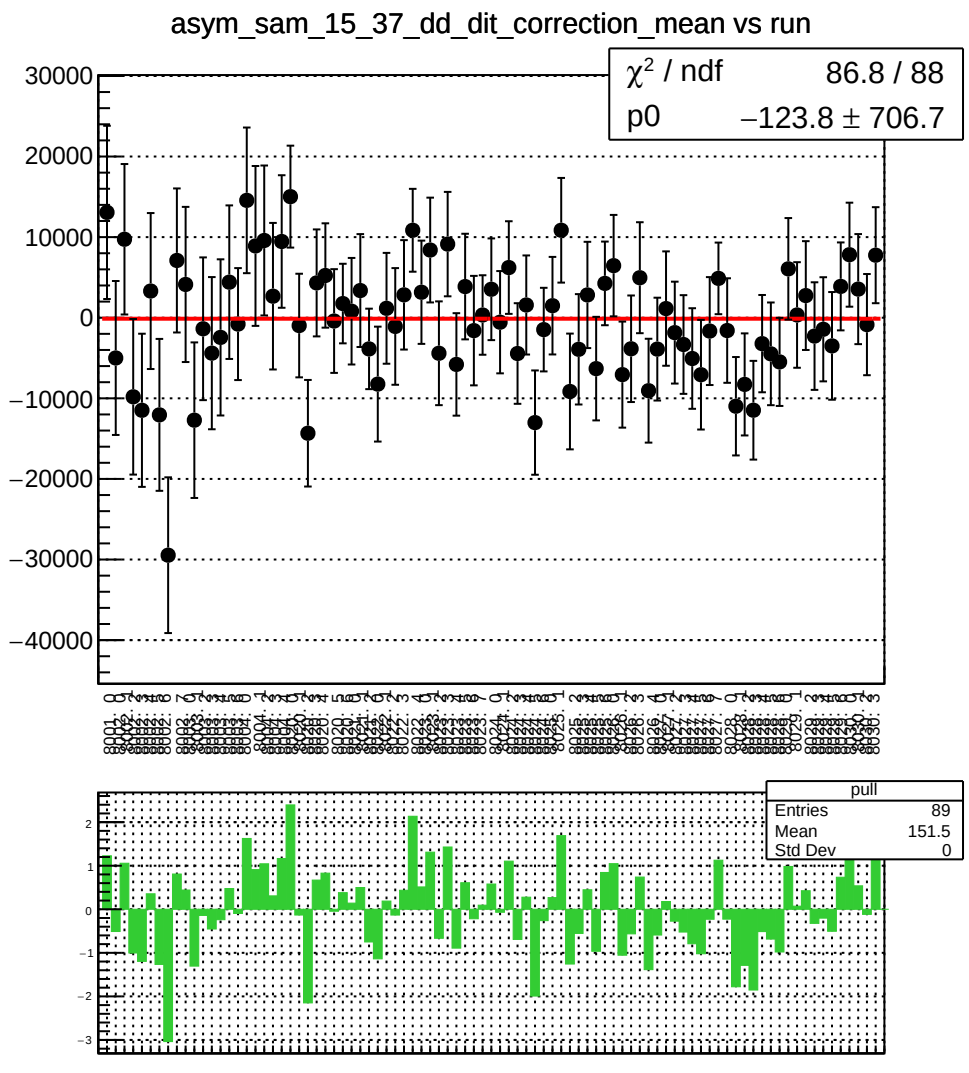

pull1D
Entries 89
Mean −0.016
Std Dev 0.985
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

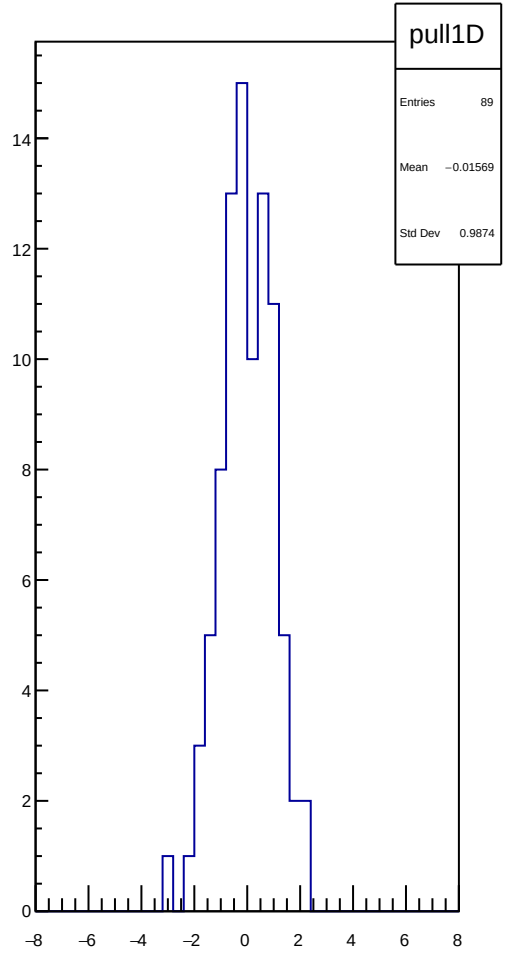

asym_sam_15_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.355e+04 / 88
p0 658.2 ± 0.5017
850
800
750
700
650
600
550

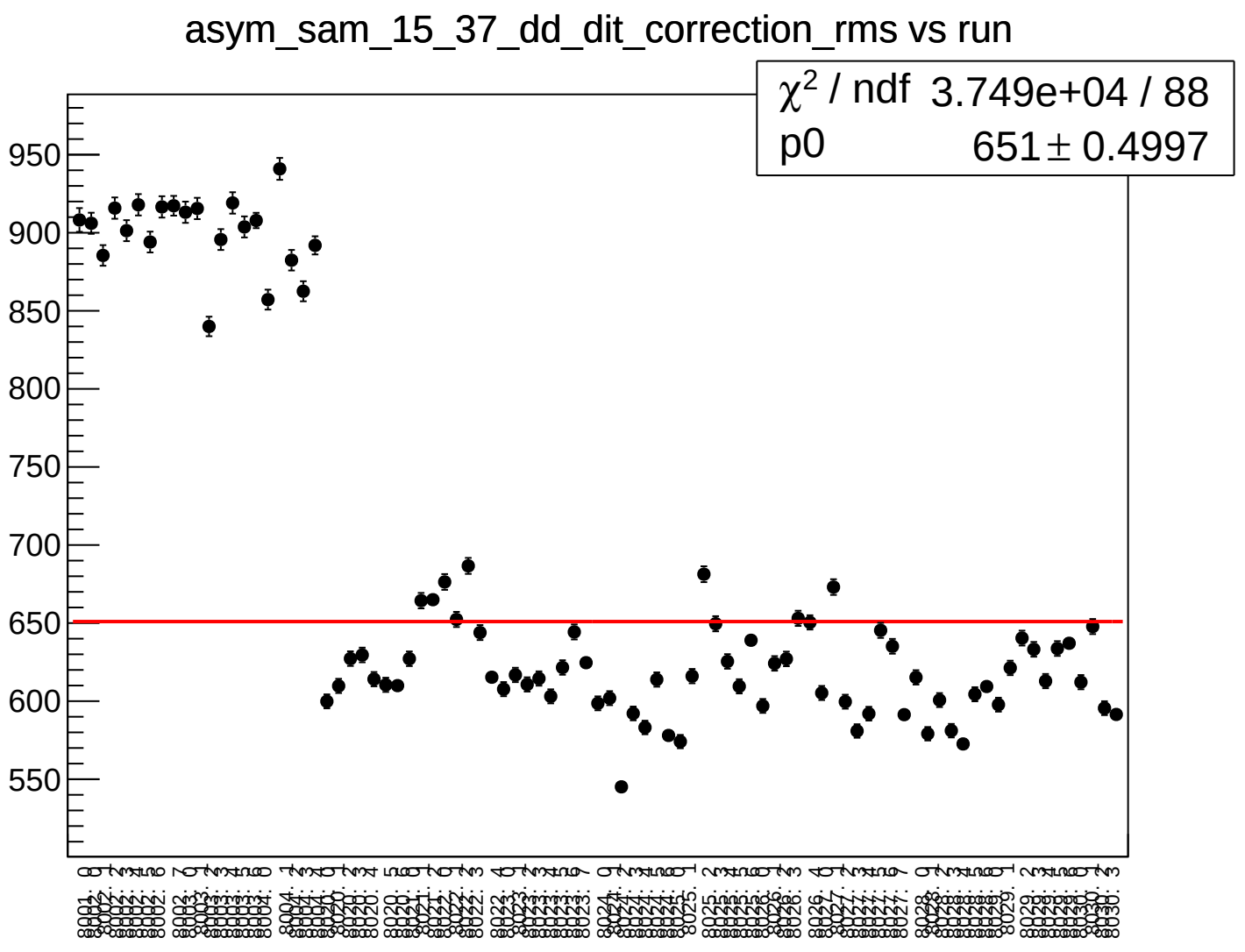

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 75.48 / 88
p0 −39.07 ± 78.81
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean −1979
Std Dev 0
2
1
0
−1
−2

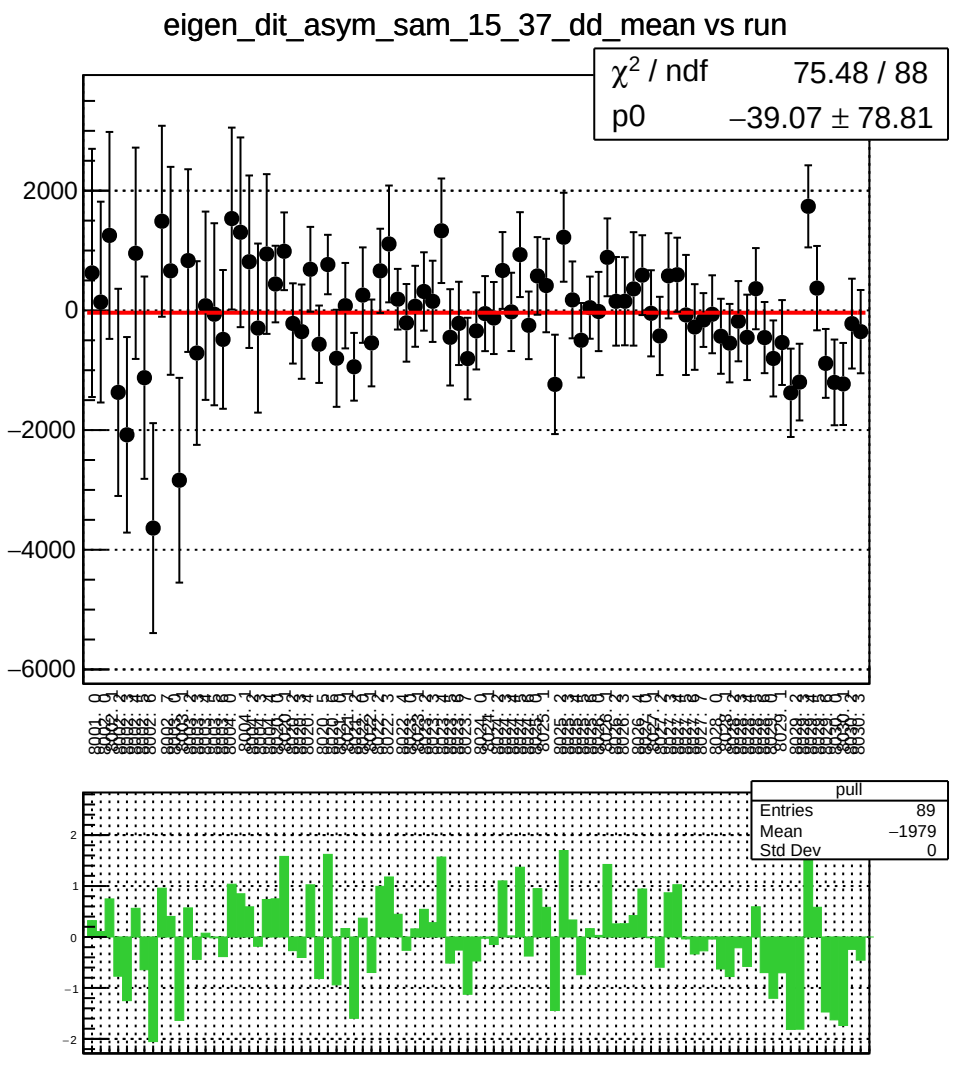

pull1D
Entries 89
Mean 0.001723
Std Dev 0.9209
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

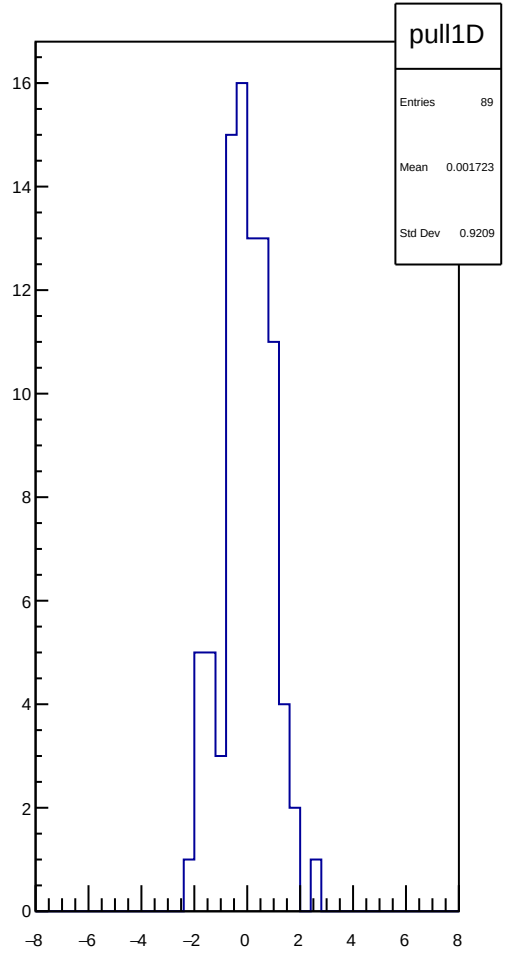

dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 1.386e+05 / 88
p0 70.4 ± 0.05573
180
160
140
120
100
80
60

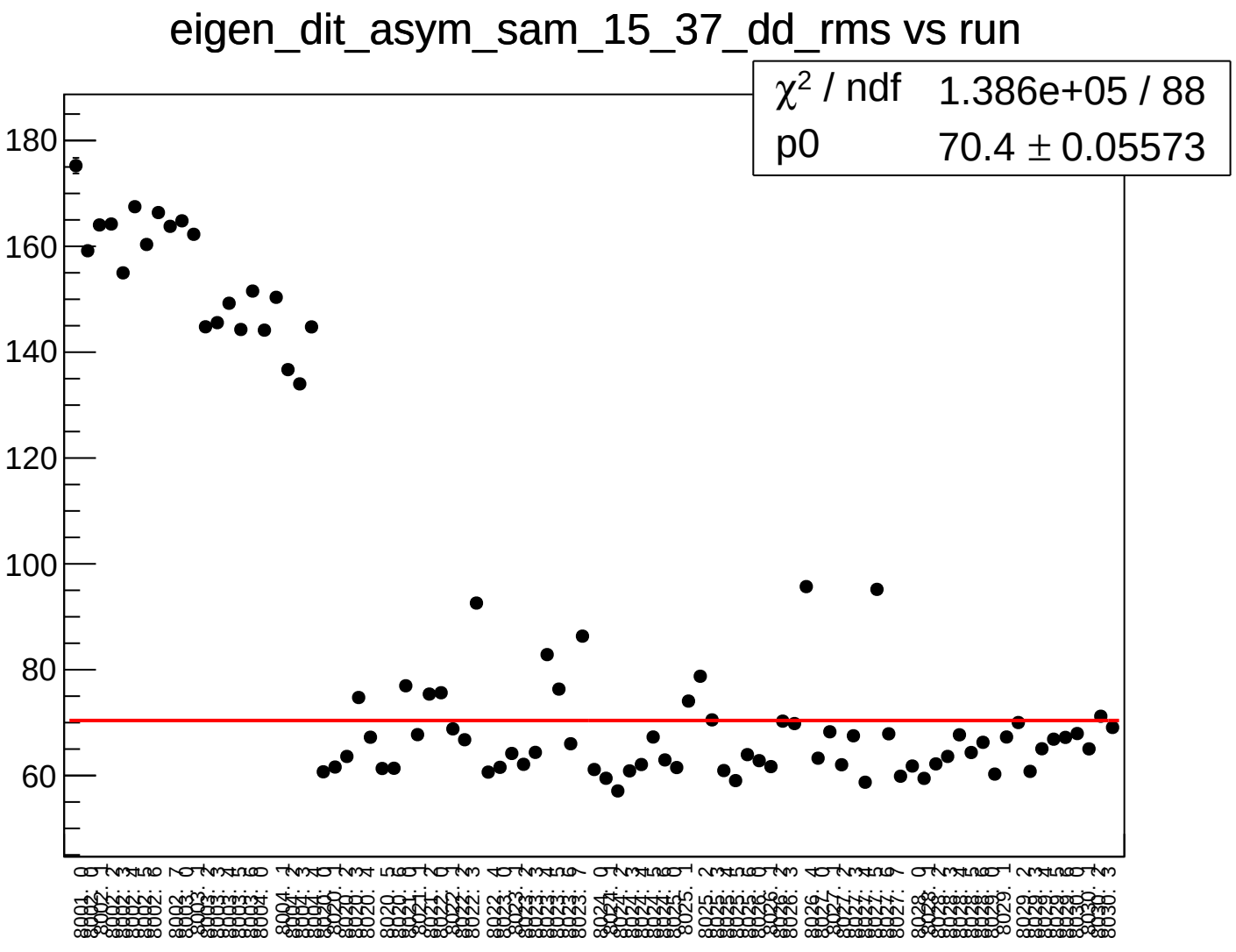

asym_sam_15_37_dd_dit_correction_mean vs run
χ² / ndf 86.8 / 88
p0 −123.8 ± 706.7
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean 151.5
Std Dev 0
2
1
0
−1
−2
−3

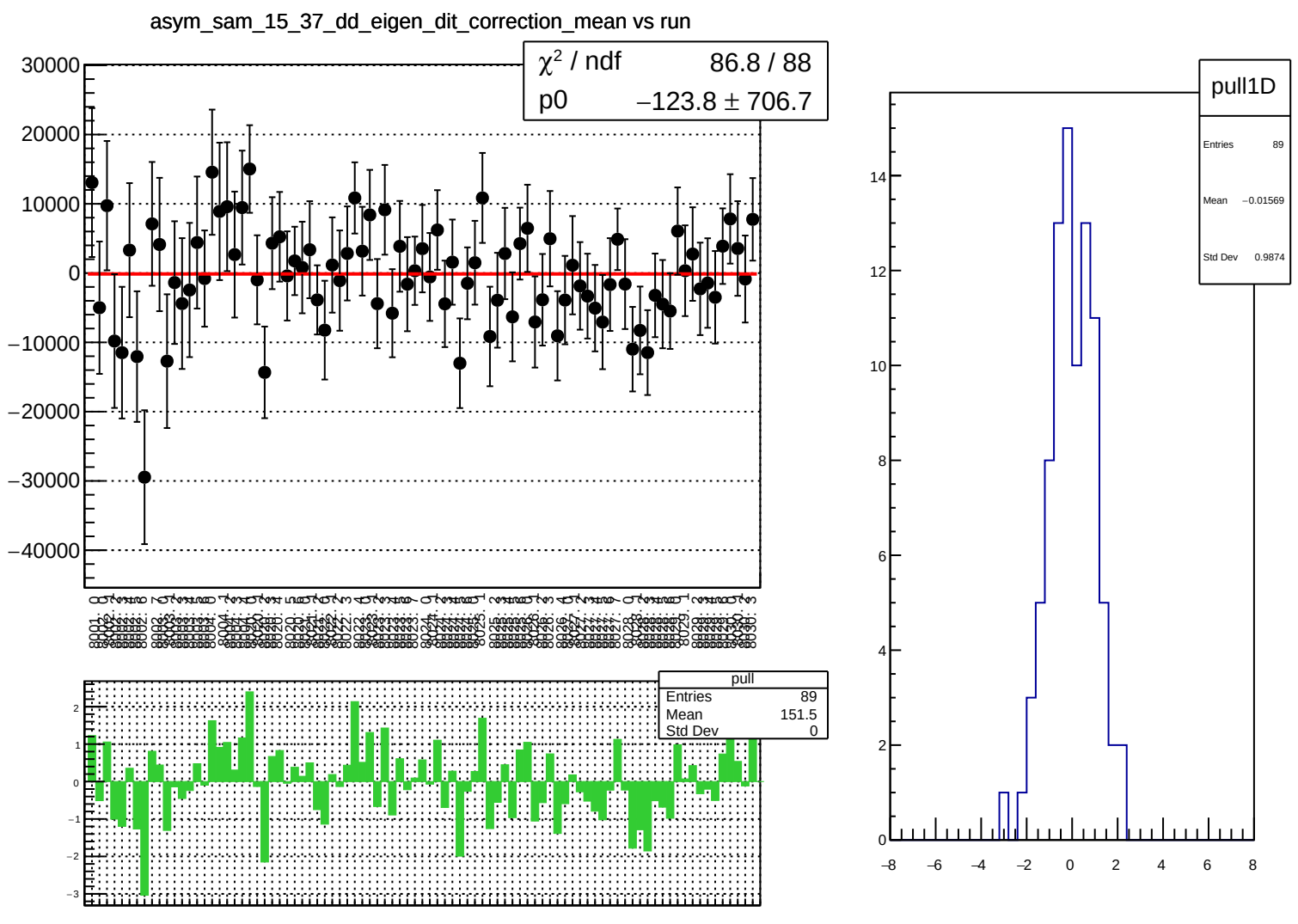

pull1D
Entries 89
Mean −0.01569
Std Dev 0.9874
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

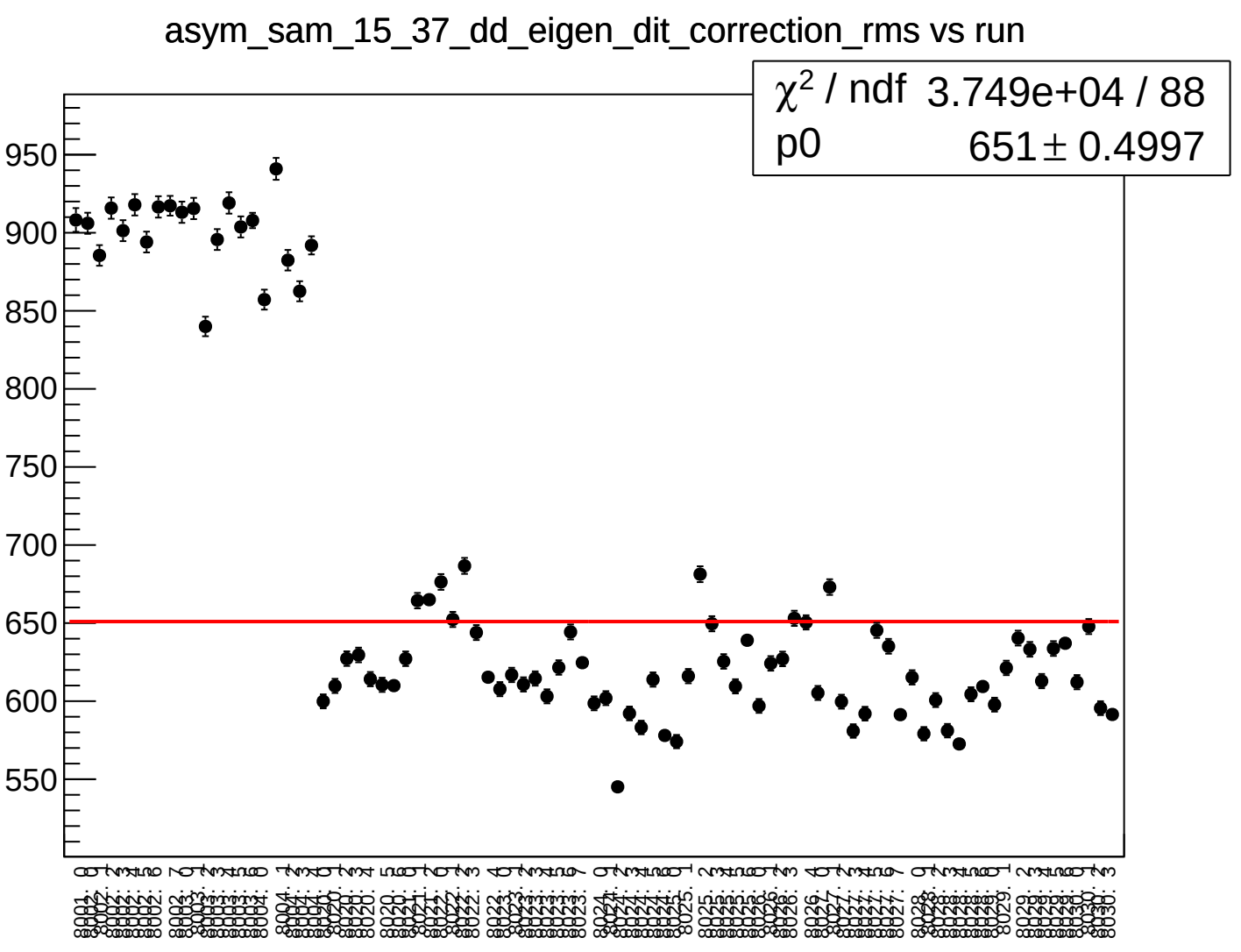

asym_sam_15_37_dd_dit_correction_rms vs run
χ² / ndf 3.749e+04 / 88
p0 651 ± 0.4997
950
900
850
800
750
700
650
600
550

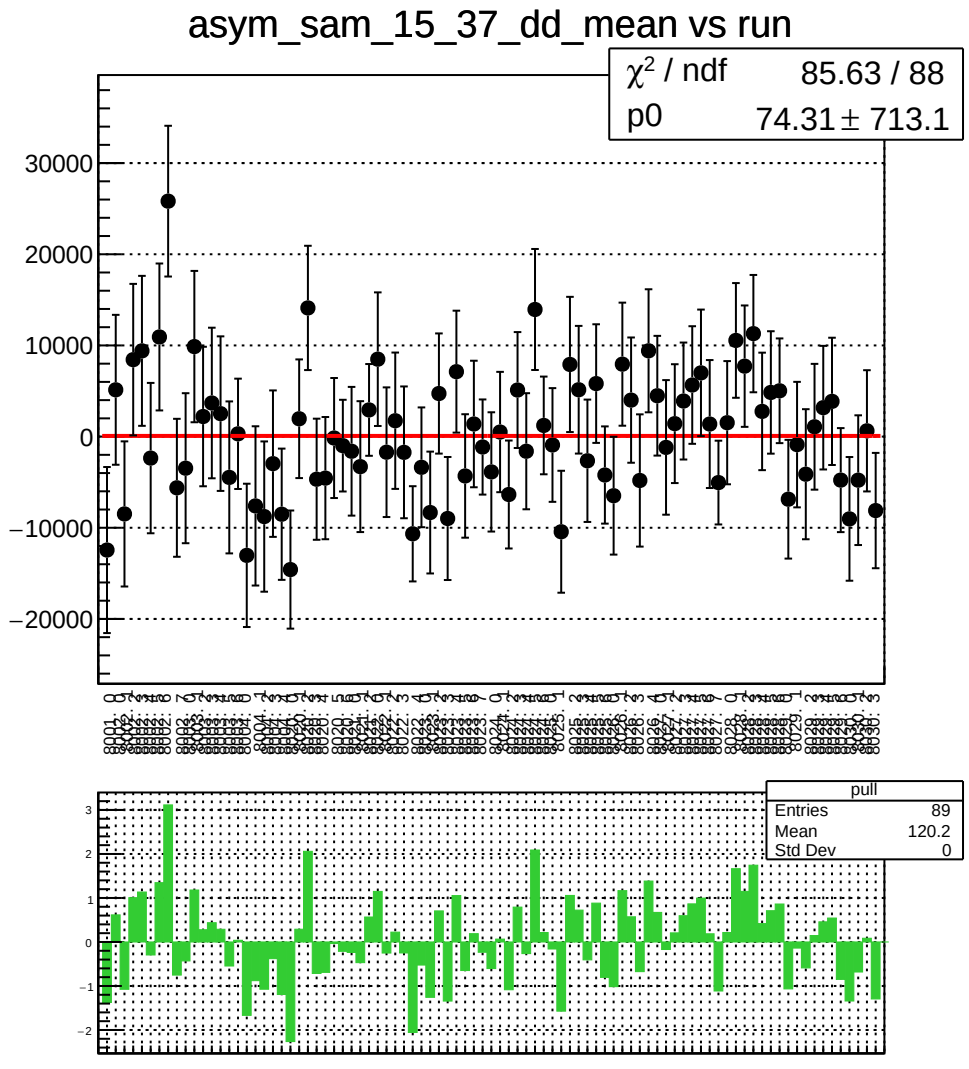

eigen_dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 75.48 / 88
p0 −39.07 ± 78.81
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean −1979
Std Dev 0
2
1
0
−1
−2

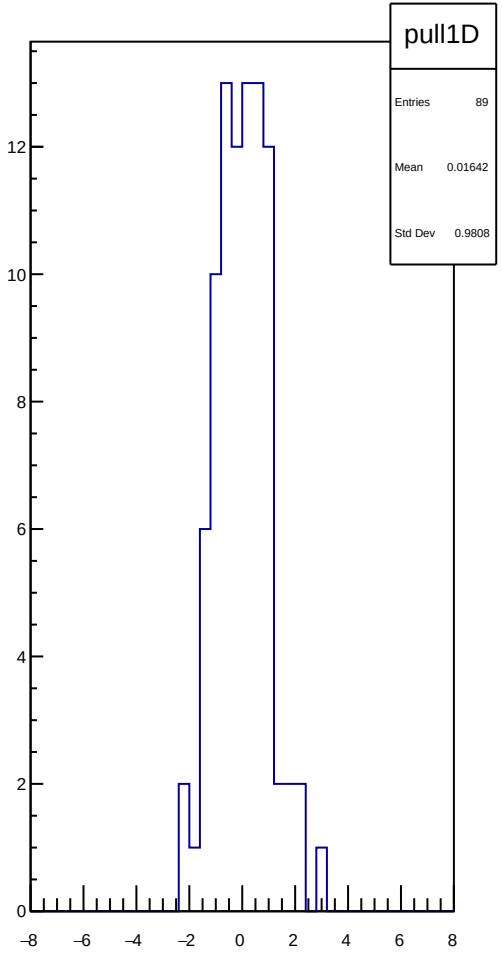

pull1D
Entries 89
Mean 0.001723
Std Dev 0.9209
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

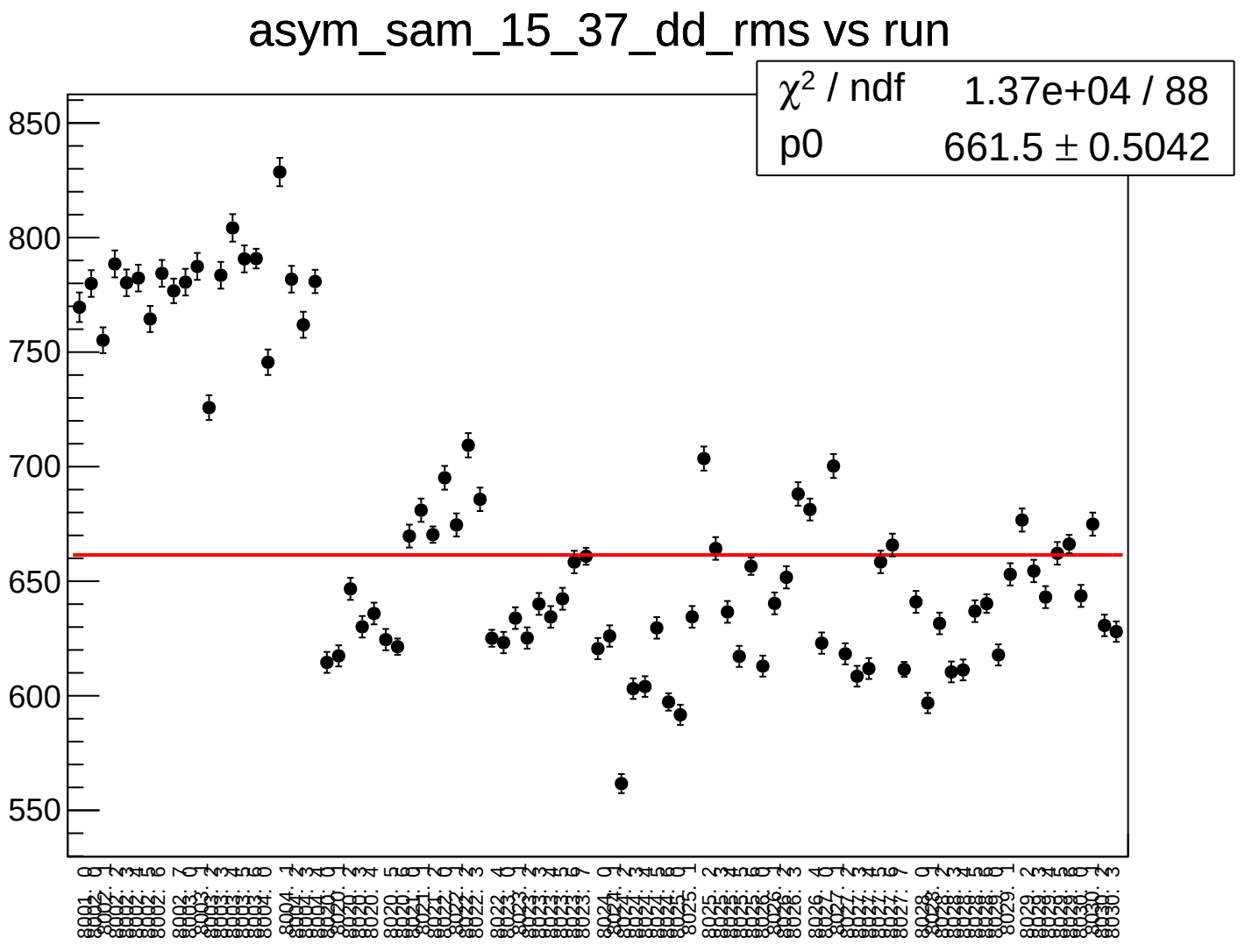

eigen_dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 1.386e+05 / 88
p0 70.4 ± 0.05573
180
160
140
120
100
80
60

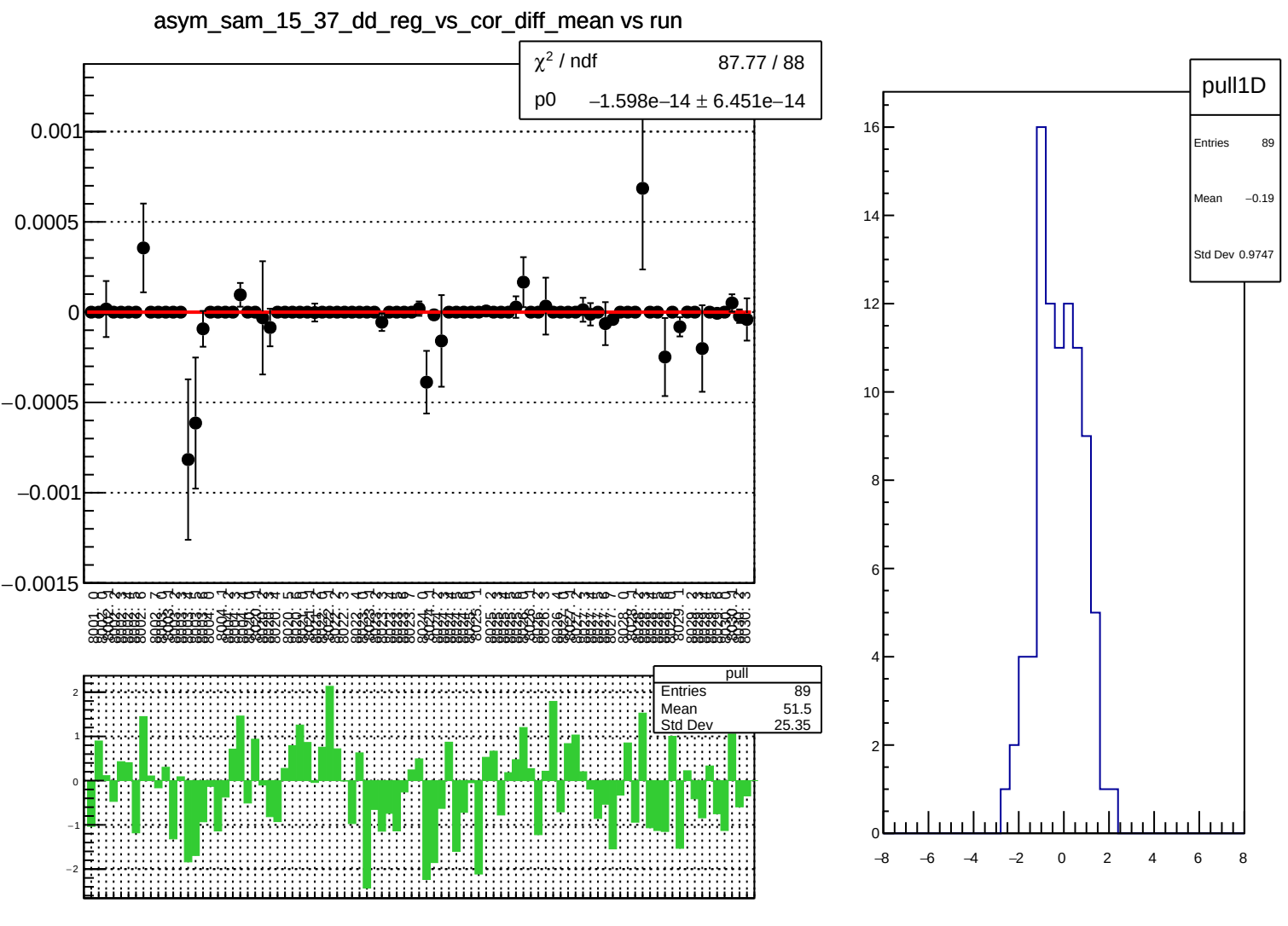

asym_sam_15_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 86.8 / 88
p0 −123.8 ± 706.7
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean 151.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.01569
Std Dev 0.9874
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

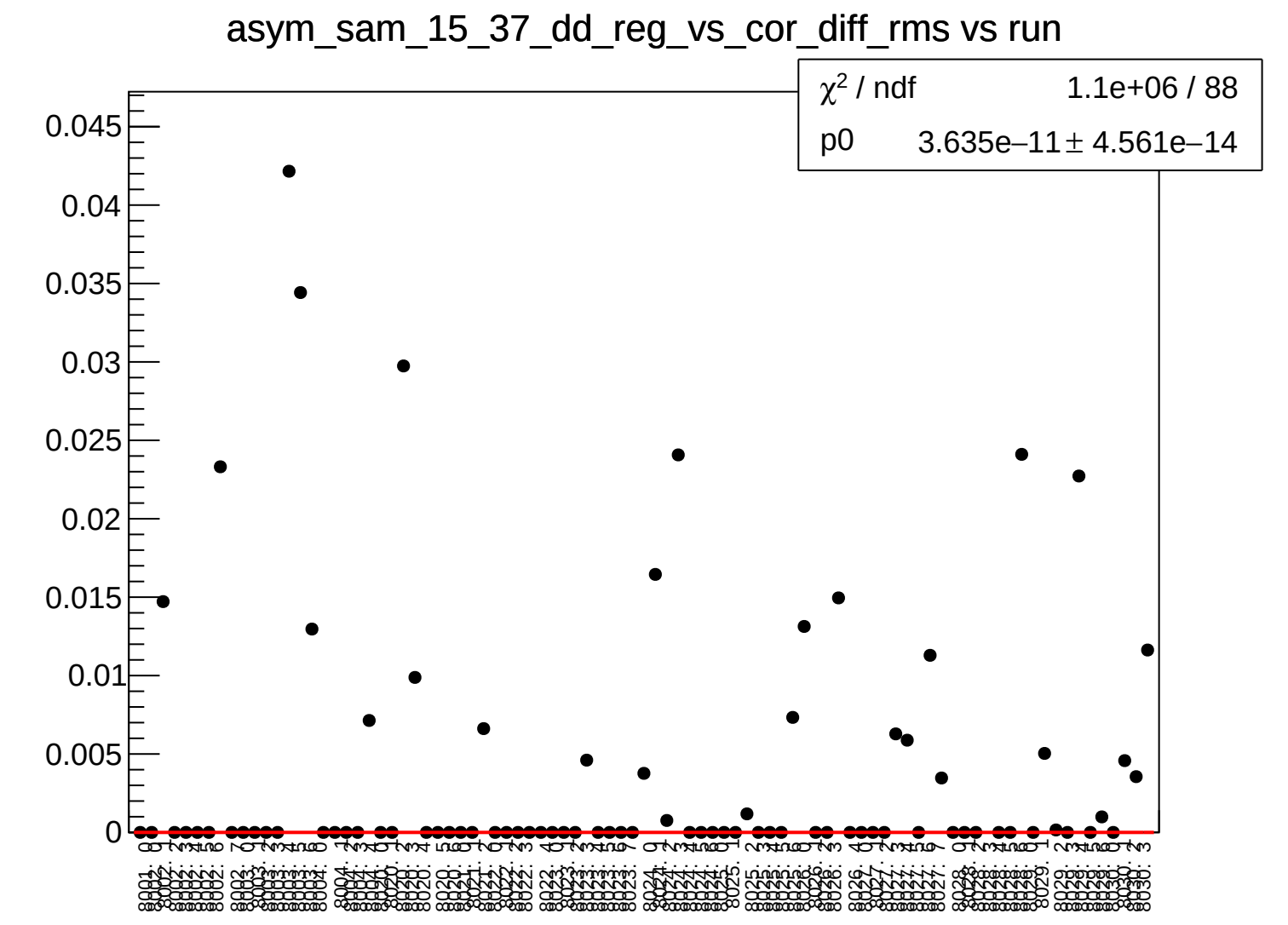

asym_sam_15_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.749e+04 / 88
p0 651 ± 0.4997
950
900
850
800
750
700
650
600
550

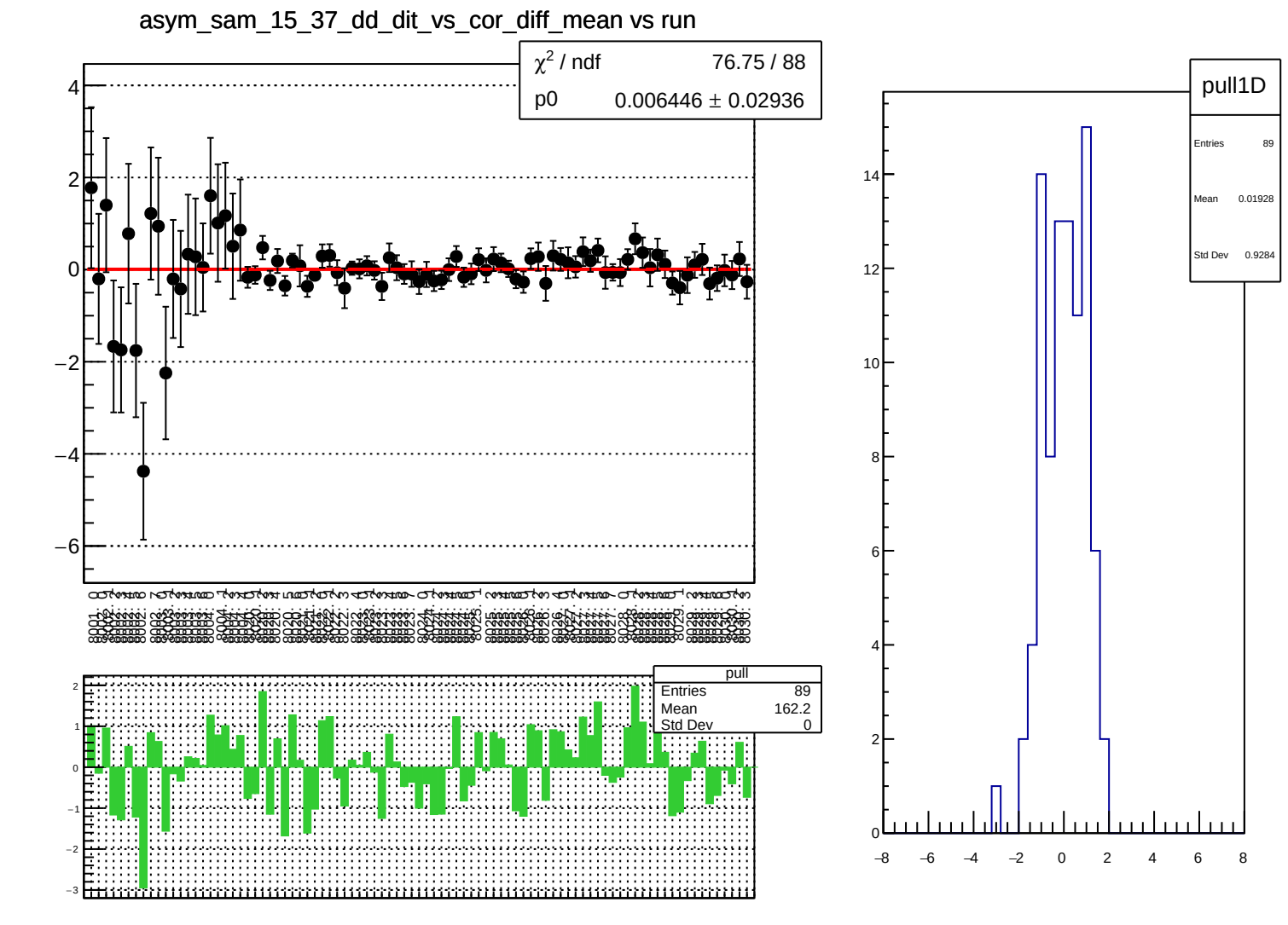

asym_sam_15_37_dd_mean vs run
χ² / ndf 85.63 / 88
p0 74.31 ± 713.1
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 120.2
Std Dev 0
3
2
1
0
−1
−2

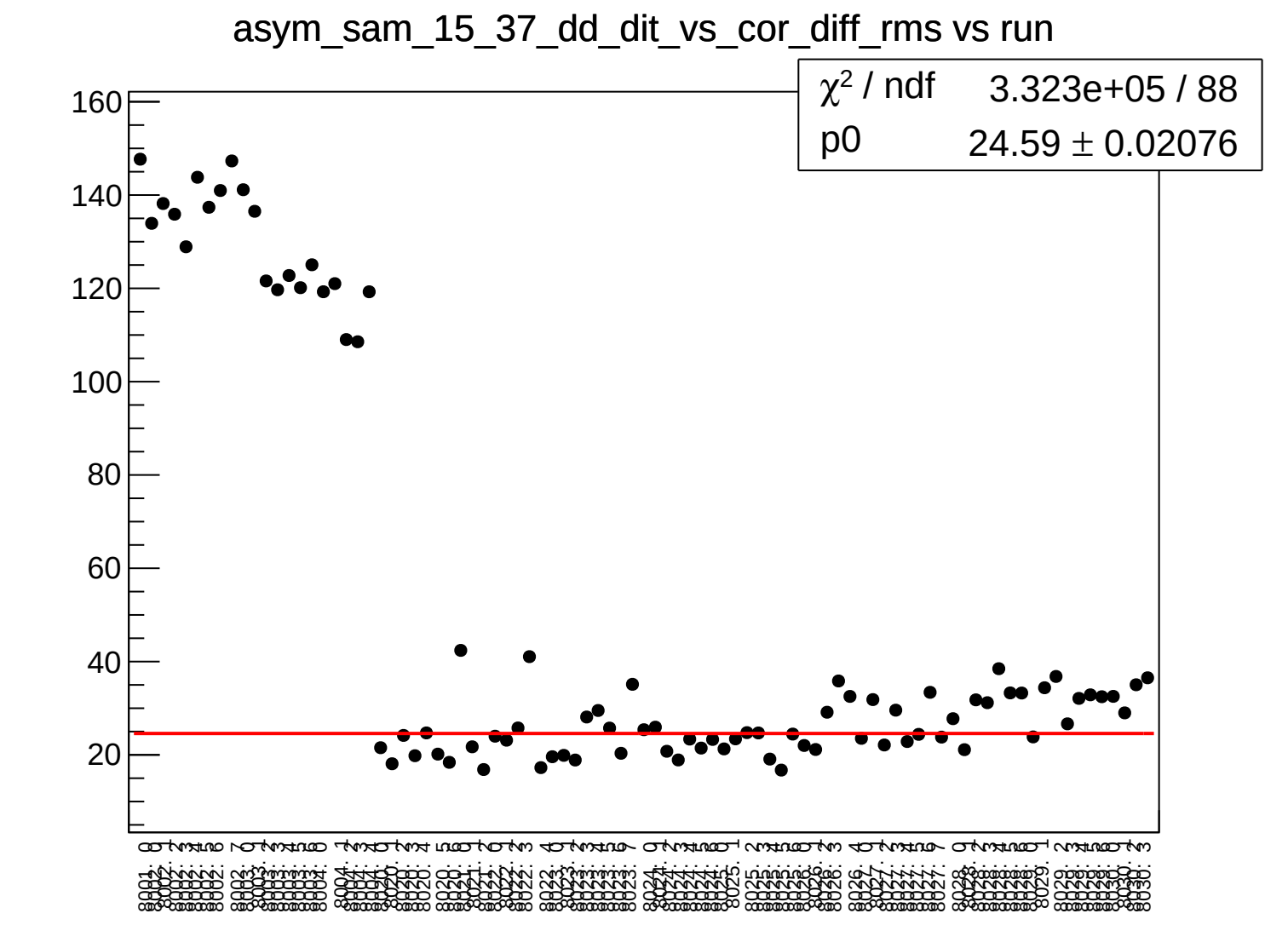

pull1D
Entries 89
Mean 0.01642
Std Dev 0.9808
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

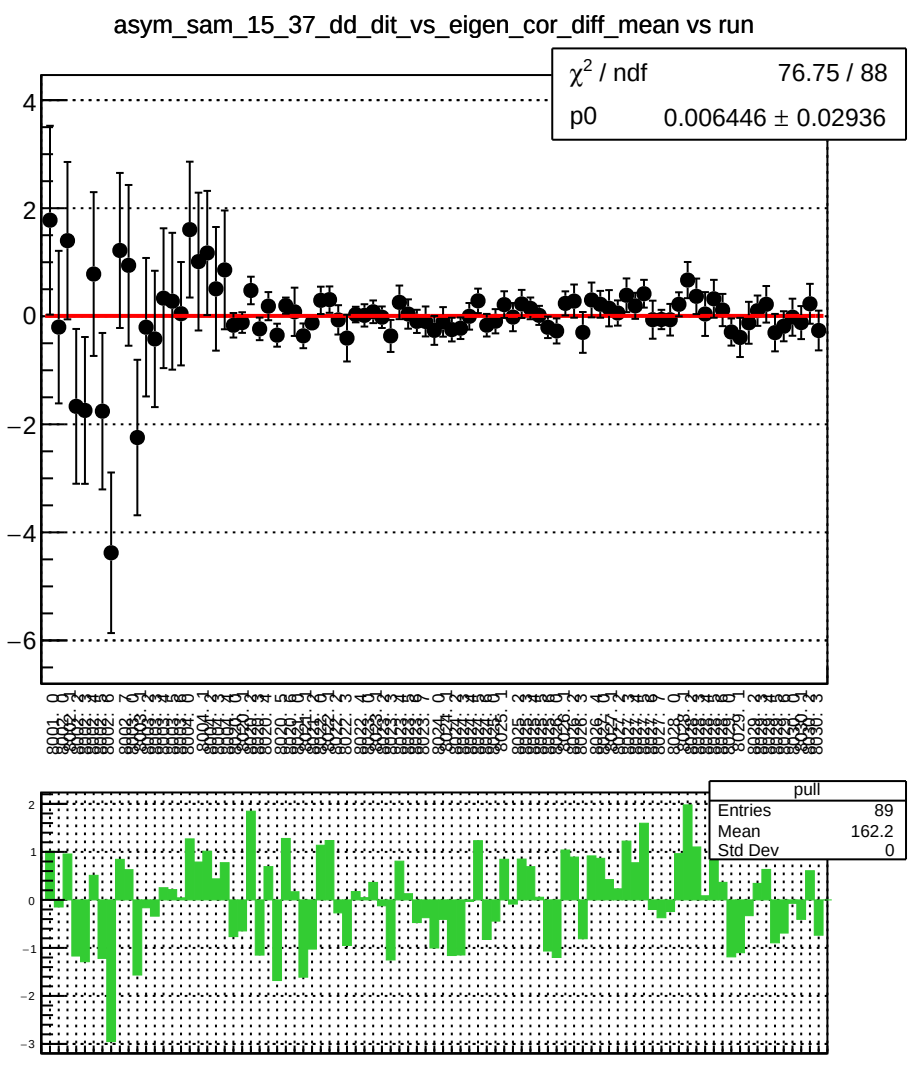

asym_sam_15_37_dd_rms vs run
χ^2 / ndf 1.37e+04 / 88
p0 661.5 ± 0.5042
850
800
750
700
650
600
550

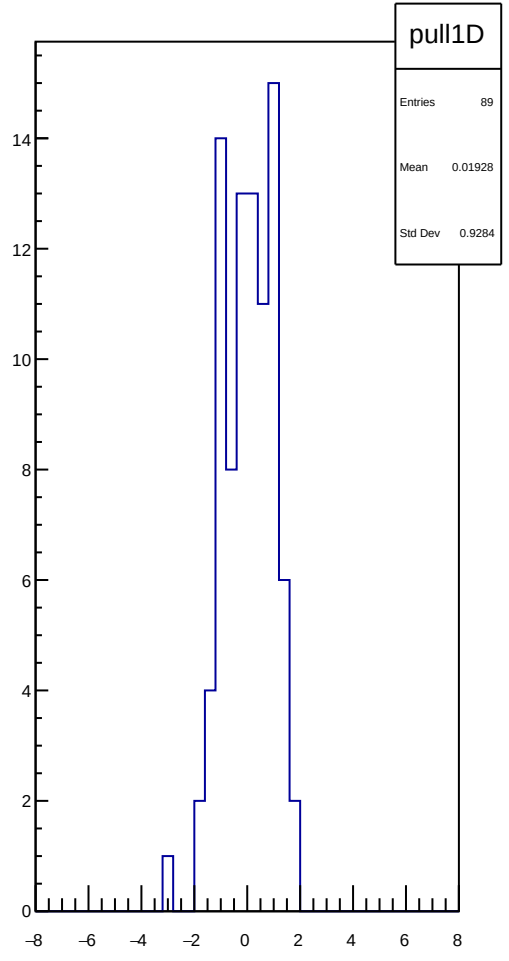

asym_sam_15_37_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 87.77 / 88
p0 −1.598e−14 ± 6.451e−14
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 89
Mean 51.5
Std Dev 25.35
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.19
Std Dev 0.9747
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

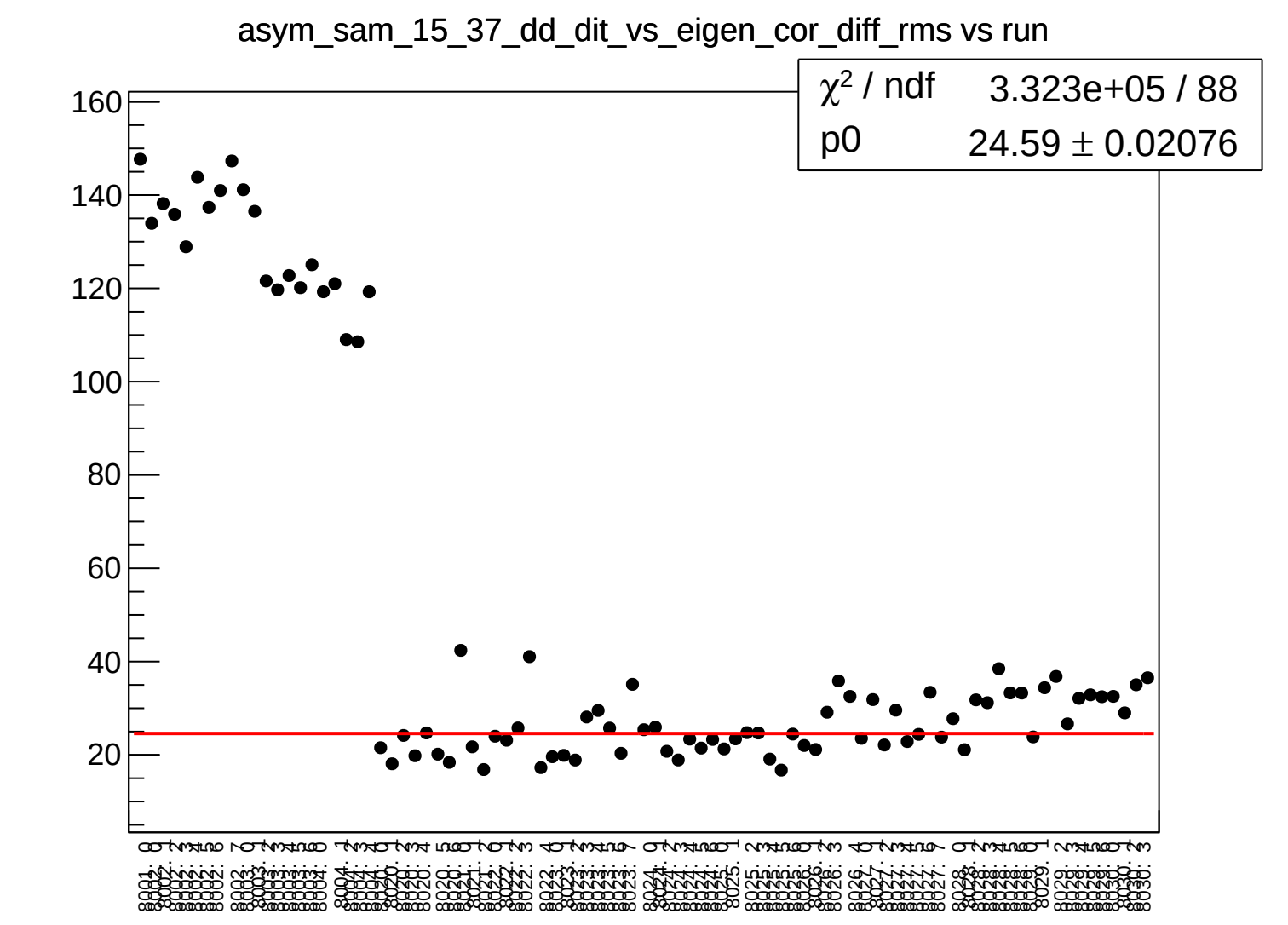

asym_sam_15_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.1e+06 / 88
p0 3.635e−11 ± 4.561e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

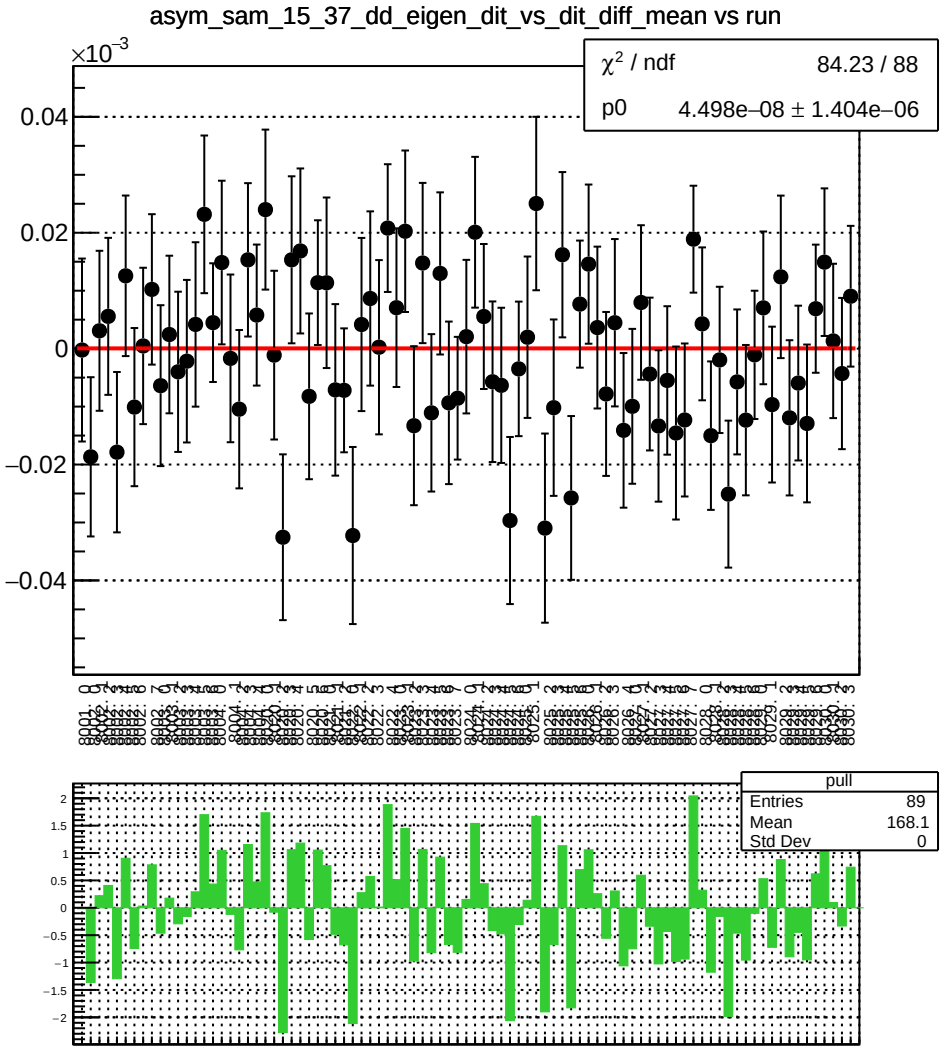

asym_sam_15_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 76.75 / 88
p0 0.006446 ± 0.02936
pull
Entries 89
Mean 162.2
Std Dev 0
pull1D
Entries 89
Mean 0.01928
Std Dev 0.9284

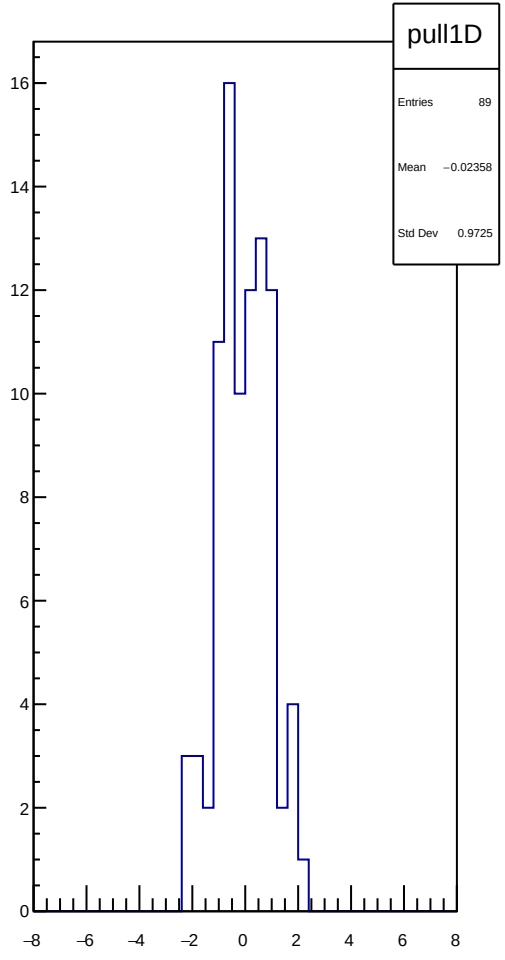

asym_sam_15_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.323e+05 / 88
p0 24.59 ± 0.02076
160
140
120
100
80
60
40
20

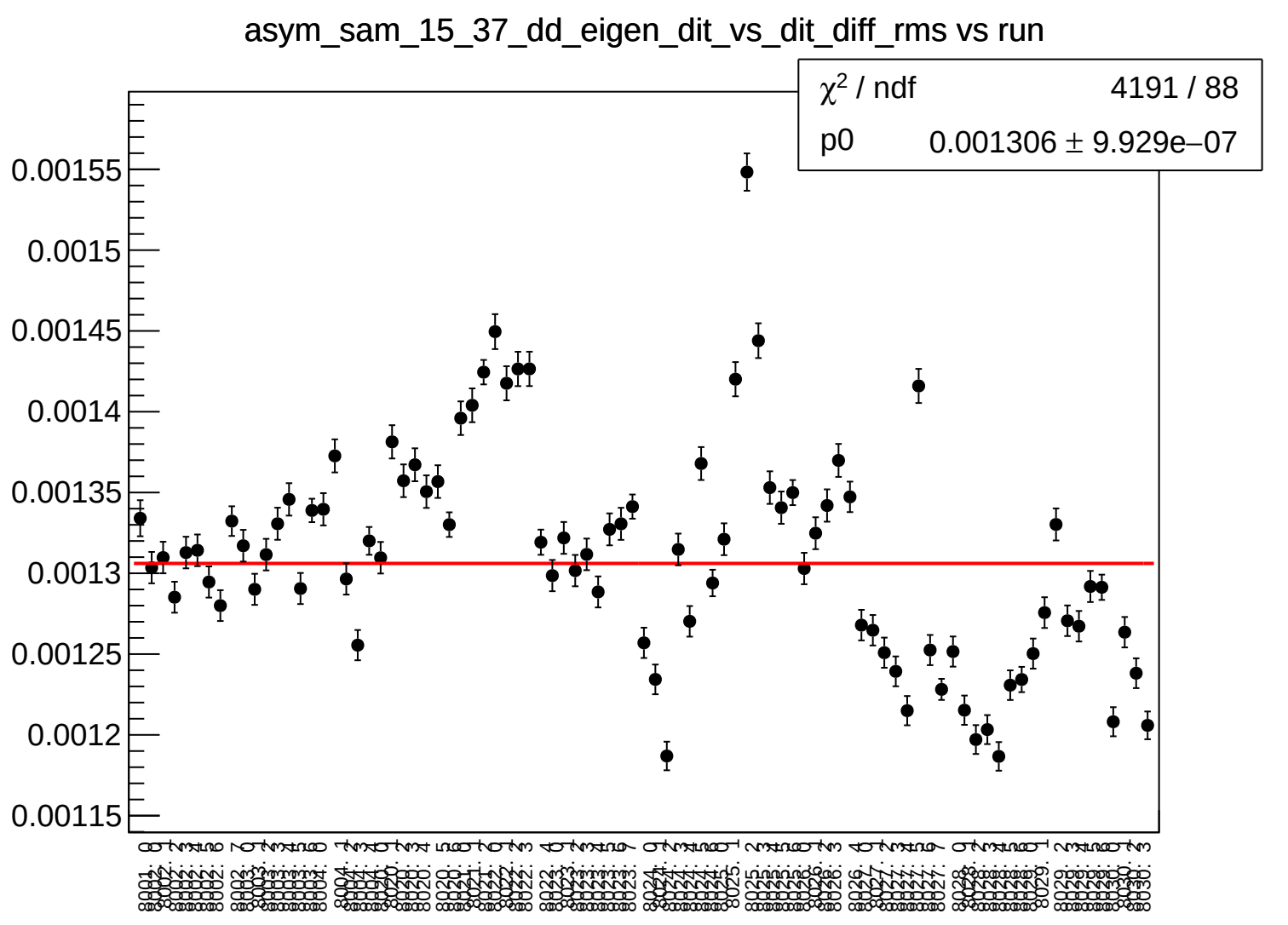

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.75 / 88
p0 0.006446 ± 0.02936
pull
Entries 89
Mean 162.2
Std Dev 0

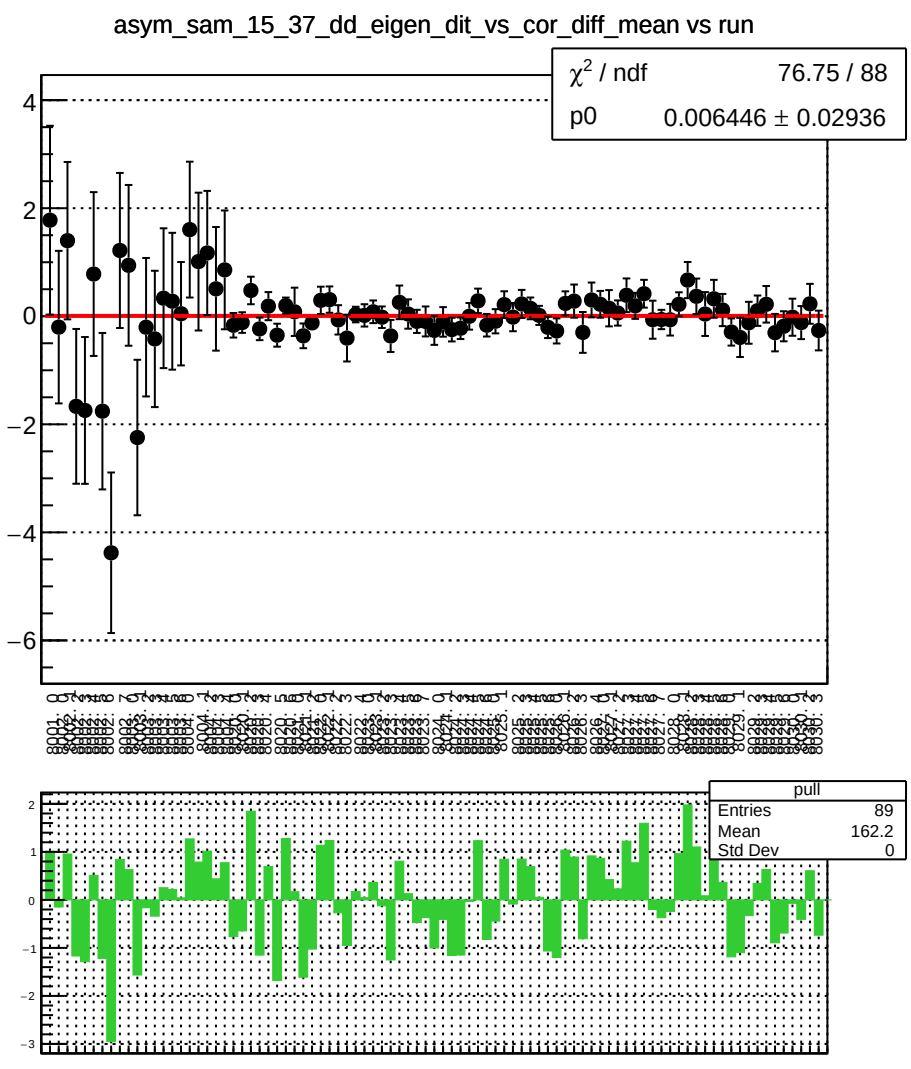

pull1D
Entries 89
Mean 0.01928
Std Dev 0.9284

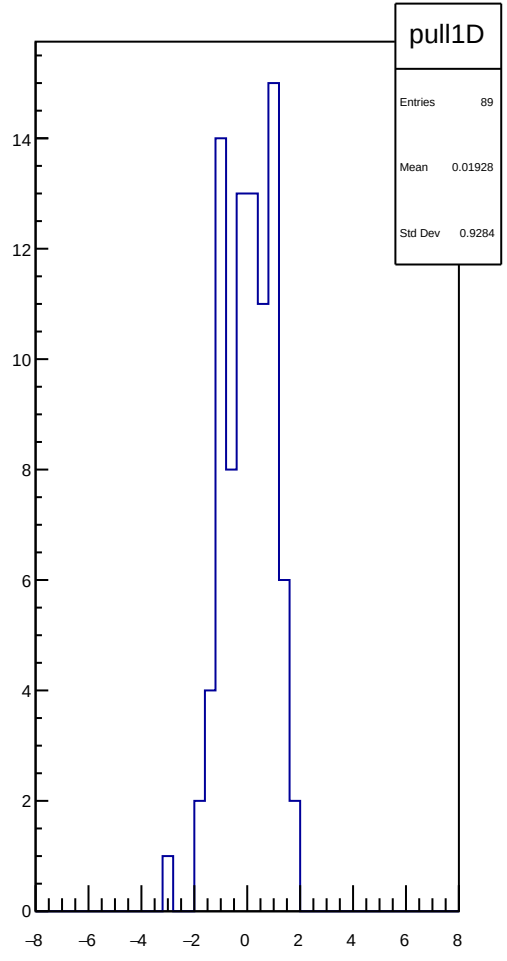

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.323e+05 / 88
p0 24.59 ± 0.02076
160
140
120
100
80
60
40
20

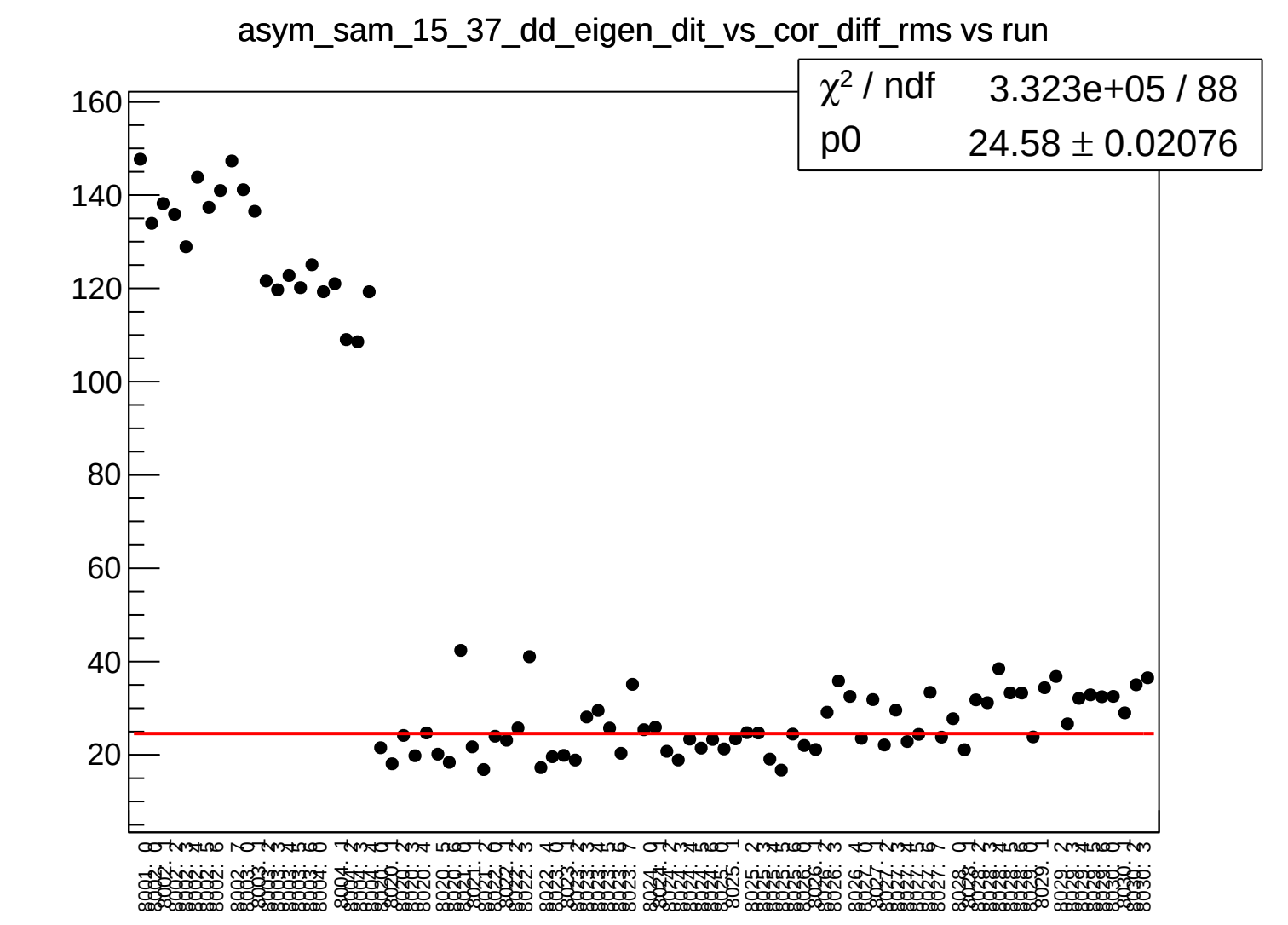

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.23 / 88
p0 4.498e−08 ± 1.404e−06
0.04
0.02
0
−0.02
−0.04
pull
Entries 89
Mean 168.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

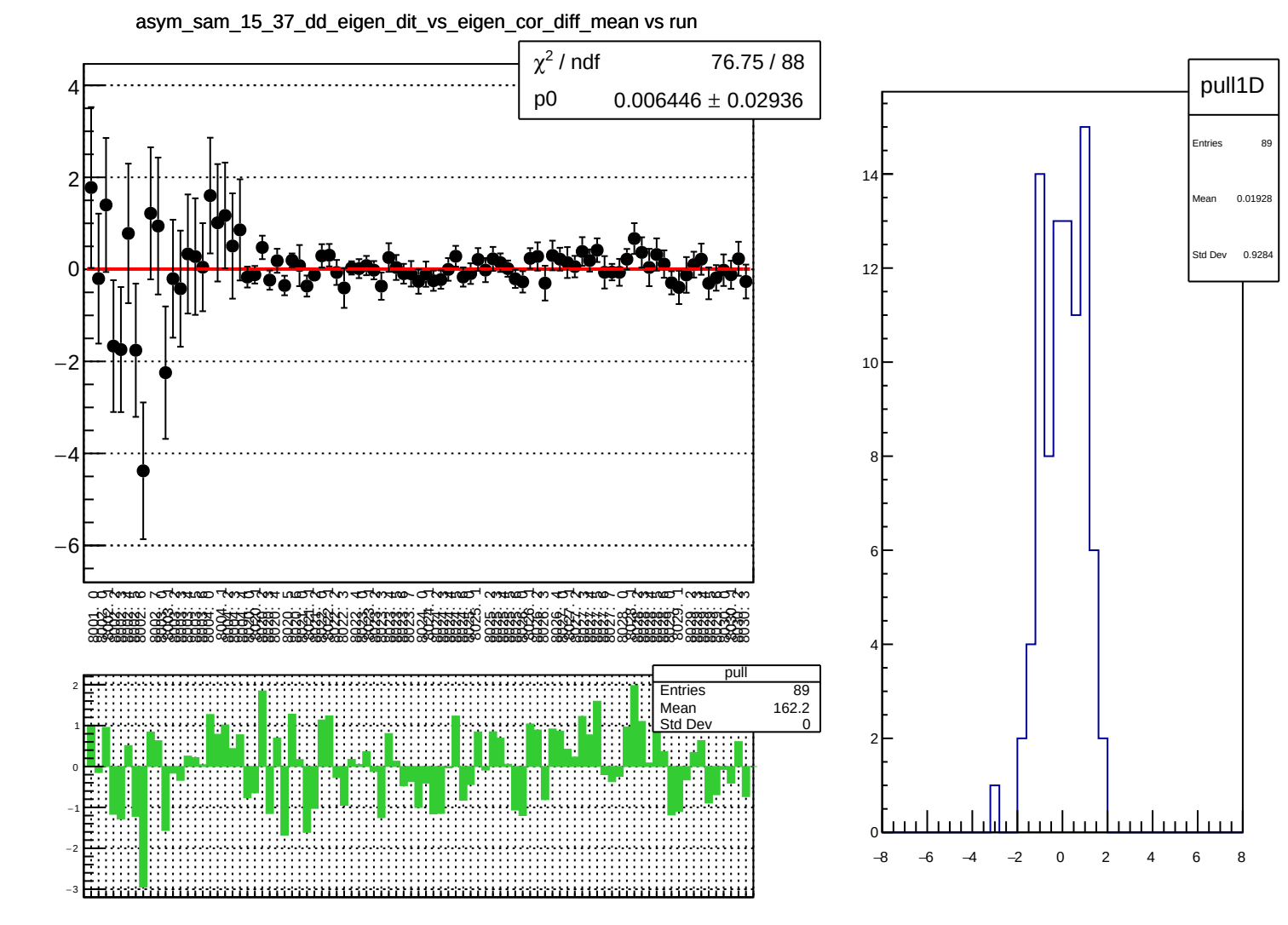

pull1D
Entries 89
Mean −0.02358
Std Dev 0.9725
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

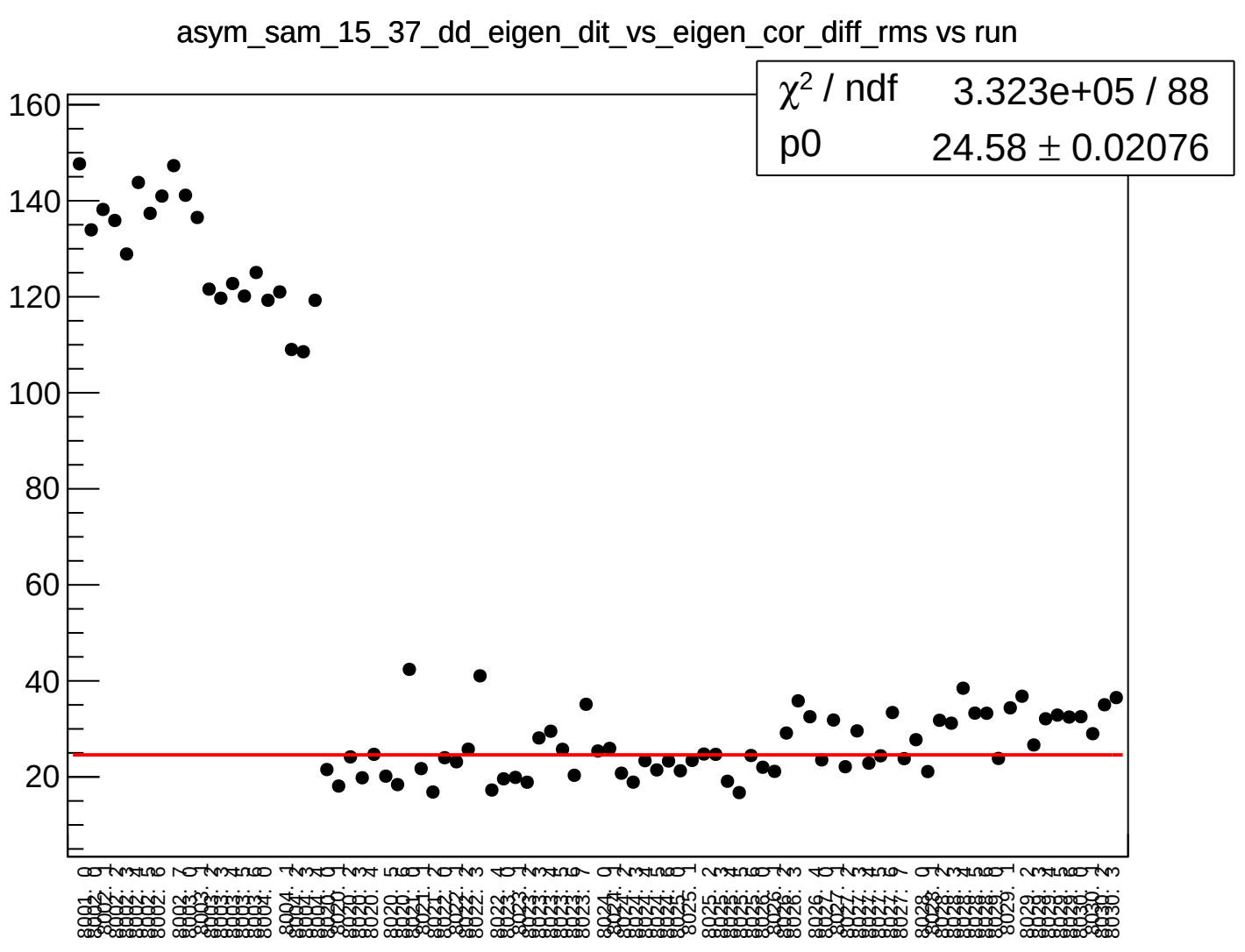

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4191 / 88
p0 0.001306 ± 9.929e−07
0.00155
0.0015
0.00145
0.0014
0.00135
0.0013
0.00125
0.0012
0.00115

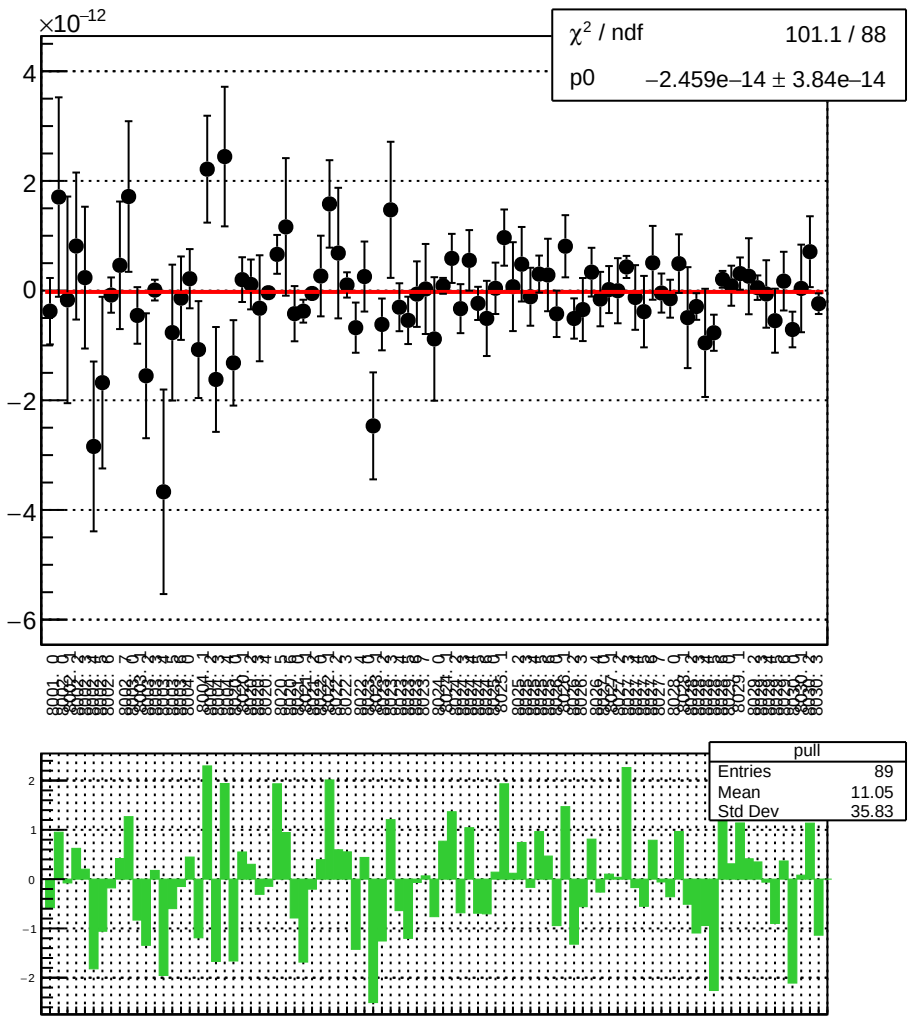

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.75 / 88
p0 0.006446 ± 0.02936
pull
Entries 89
Mean 162.2
Std Dev 0

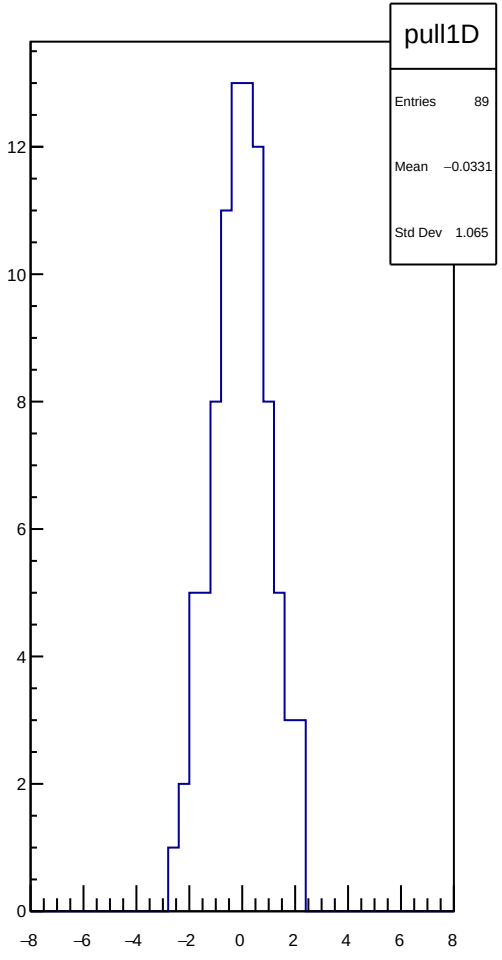

pull1D
Entries 89
Mean 0.01928
Std Dev 0.9284

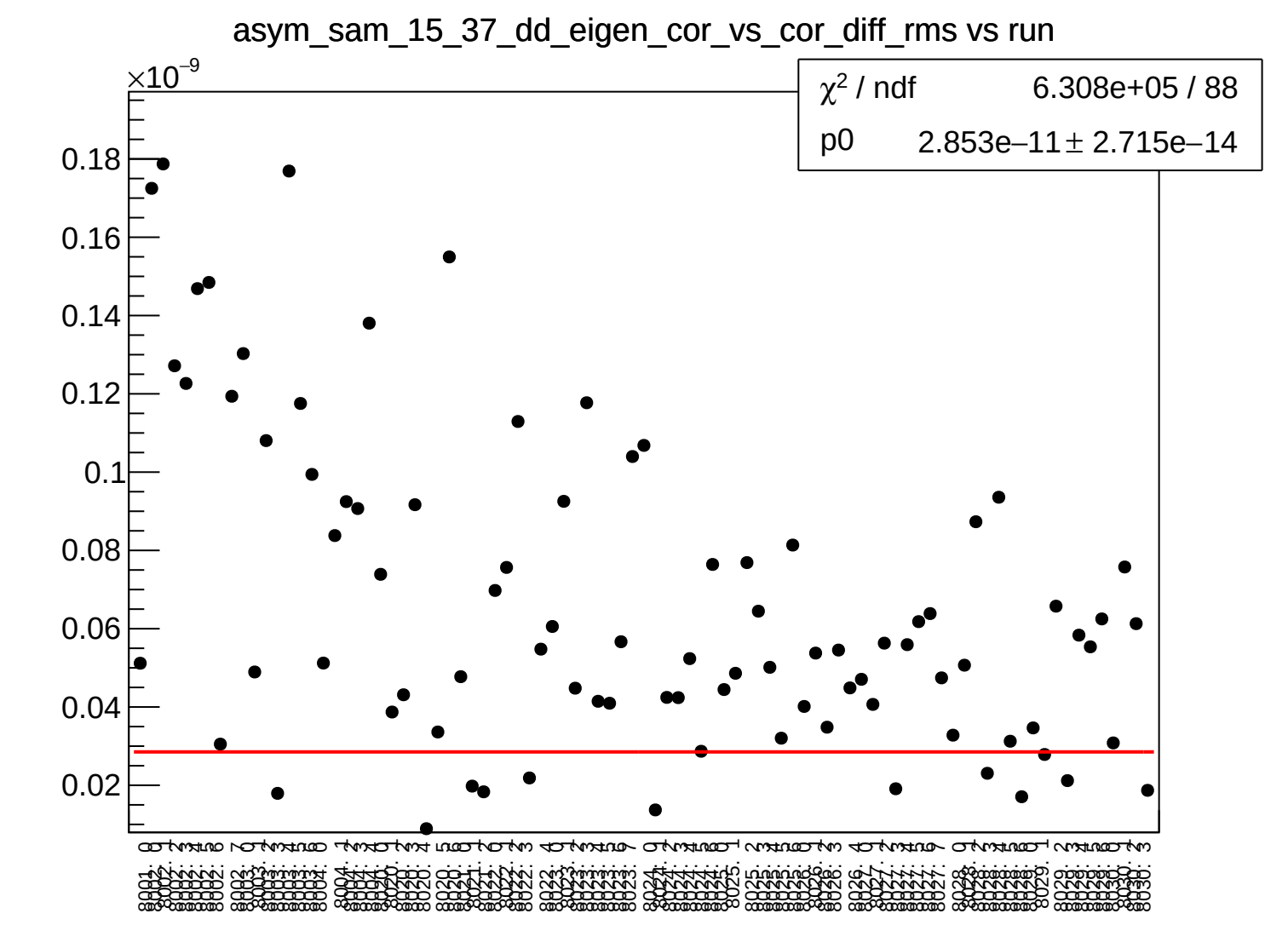

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.323e+05 / 88
p0 24.58 ± 0.02076
160
140
120
100
80
60
40
20

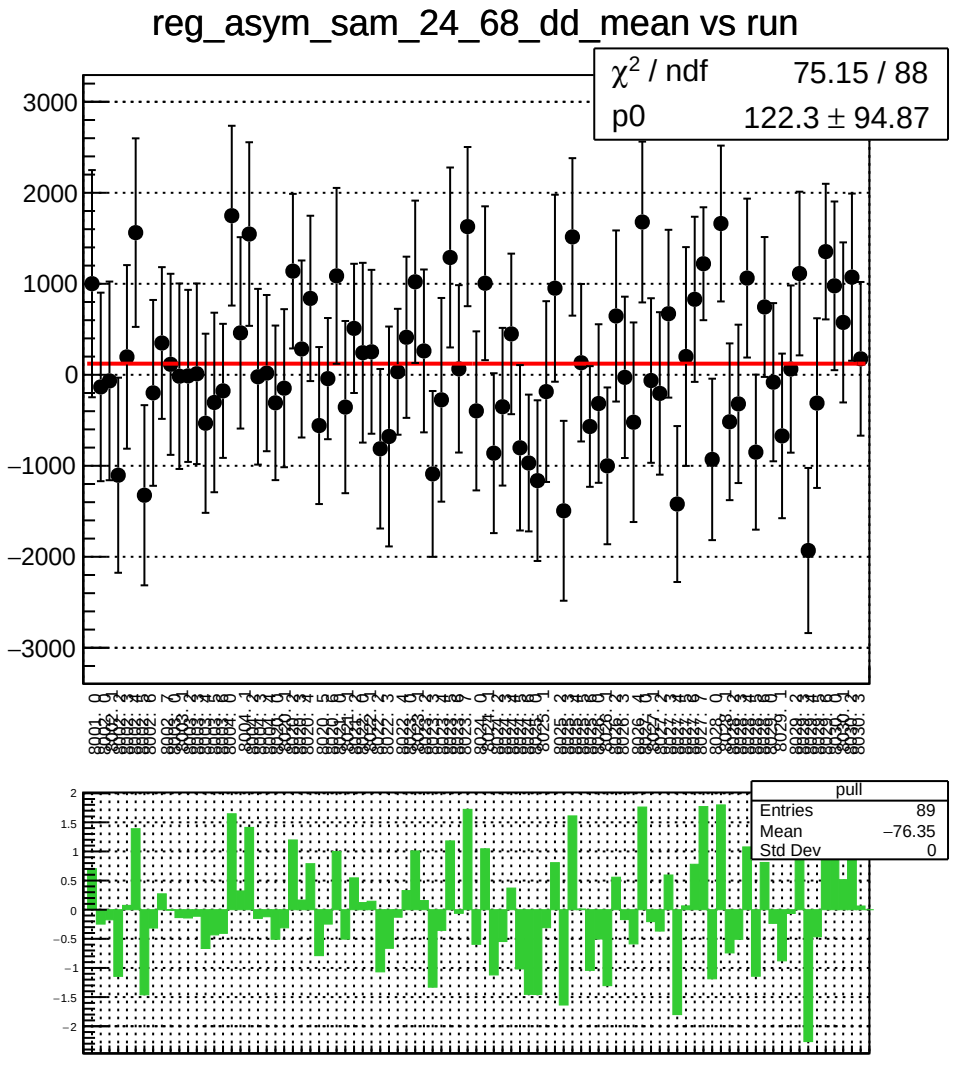

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.75 / 88
p0 0.006446 ± 0.02936
pull
Entries 89
Mean 162.2
Std Dev 0
pull1D
Entries 89
Mean 0.01928
Std Dev 0.9284

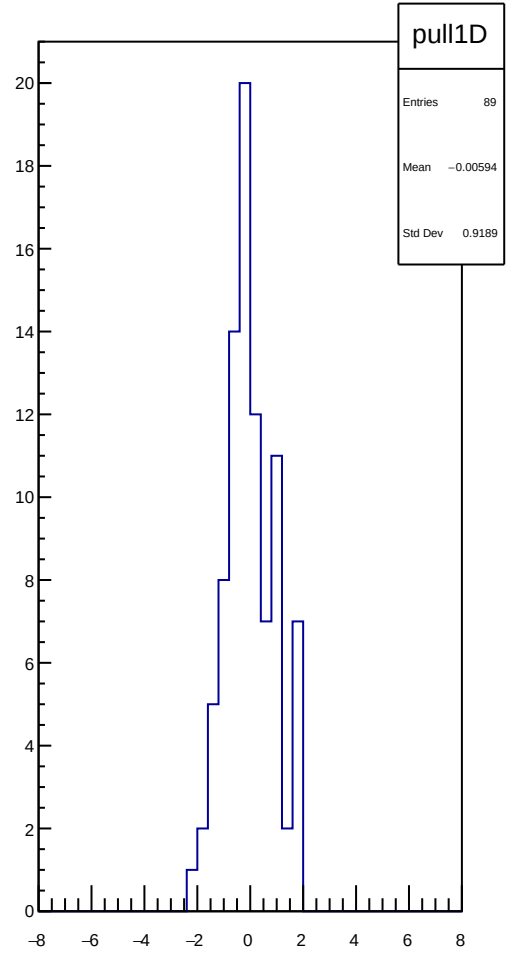

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.323e+05 / 88
p0 24.58 ± 0.02076
160
140
120
100
80
60
40
20

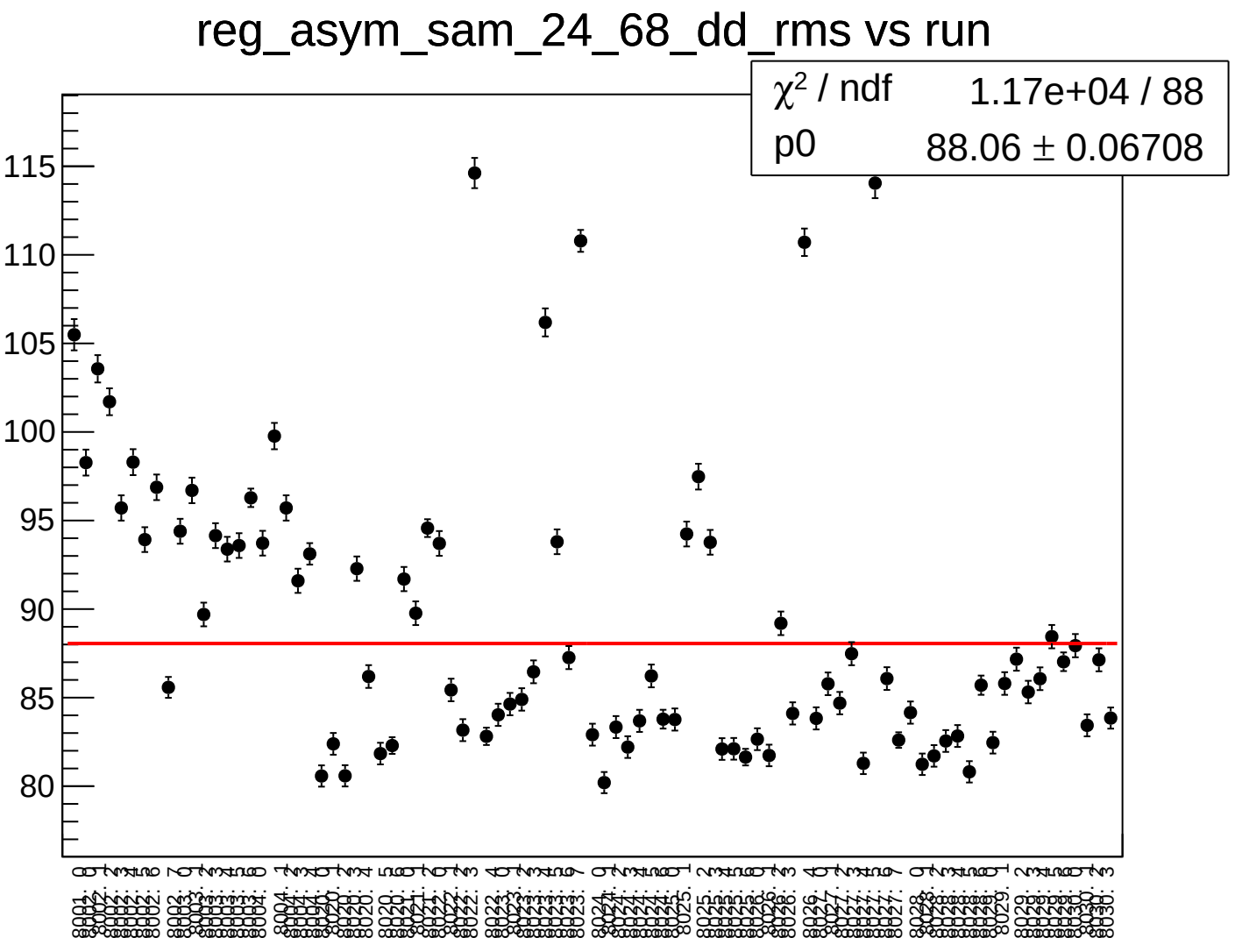

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 101.1 / 88
p0 −2.459e−14 ± 3.84e−14
pull
Entries 89
Mean 11.05
Std Dev 35.83

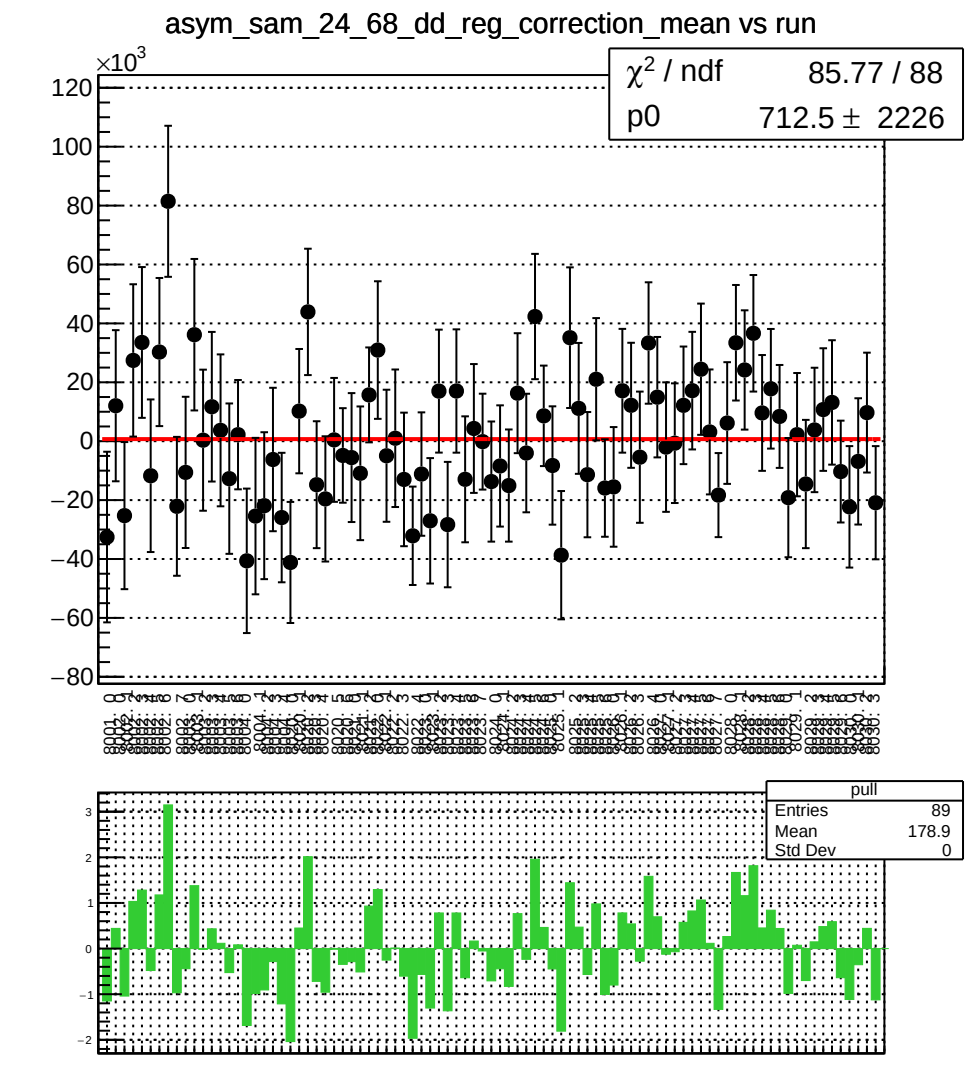

pull1D
Entries 89
Mean −0.0331
Std Dev 1.065

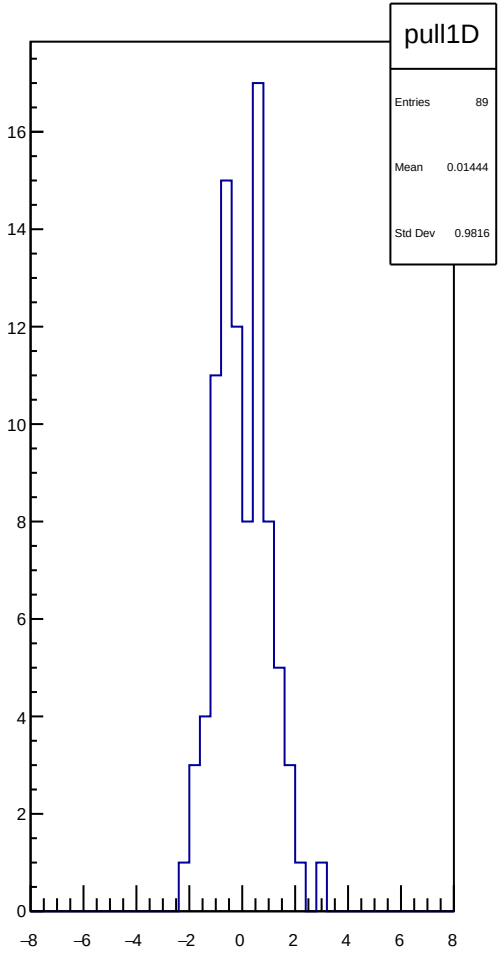

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.308e+05 / 88
p0 2.853e−11 ± 2.715e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

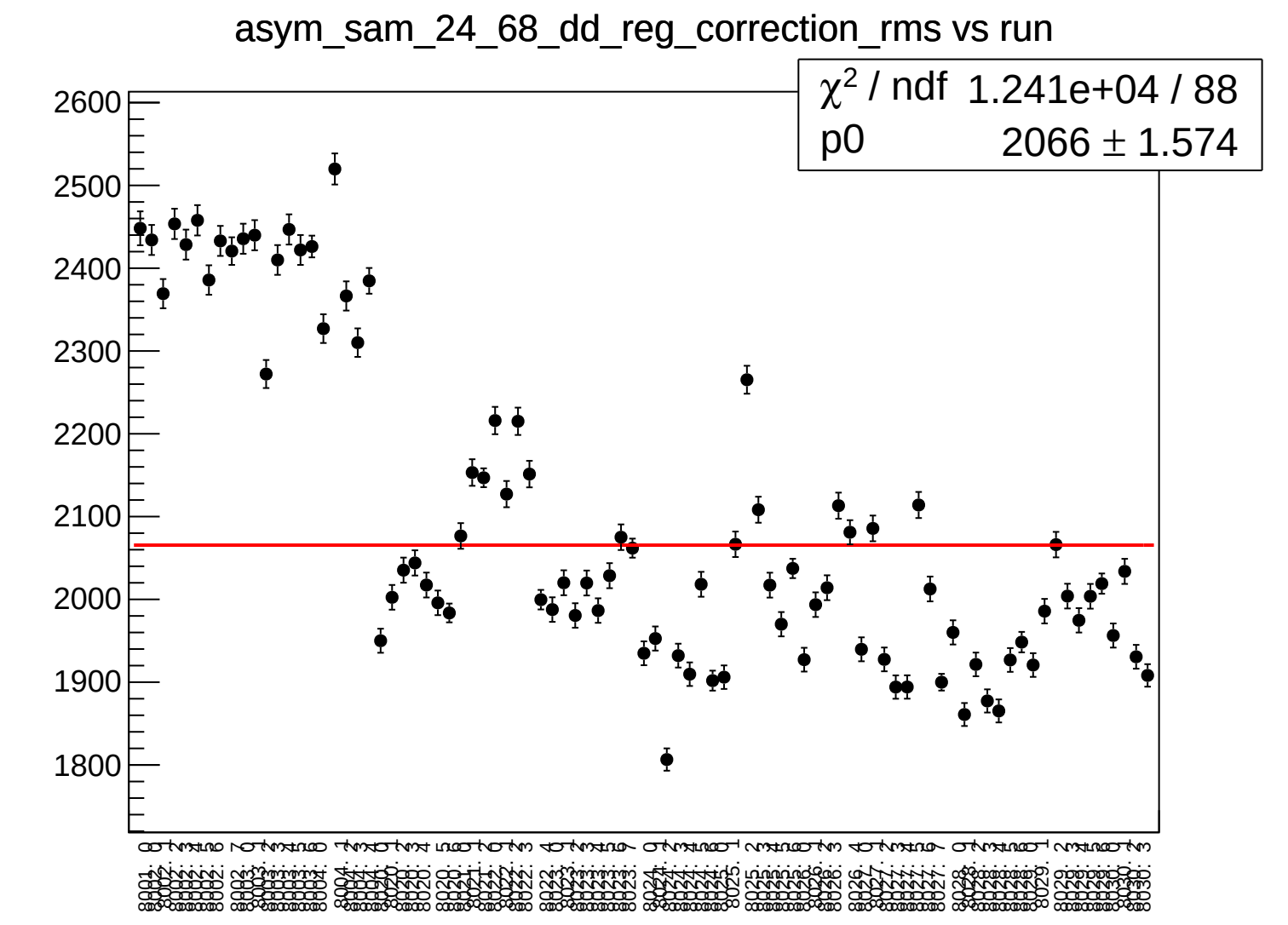

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 75.15 / 88
p0 122.3 ± 94.87
pull
Entries 89
Mean −76.35
Std Dev 0

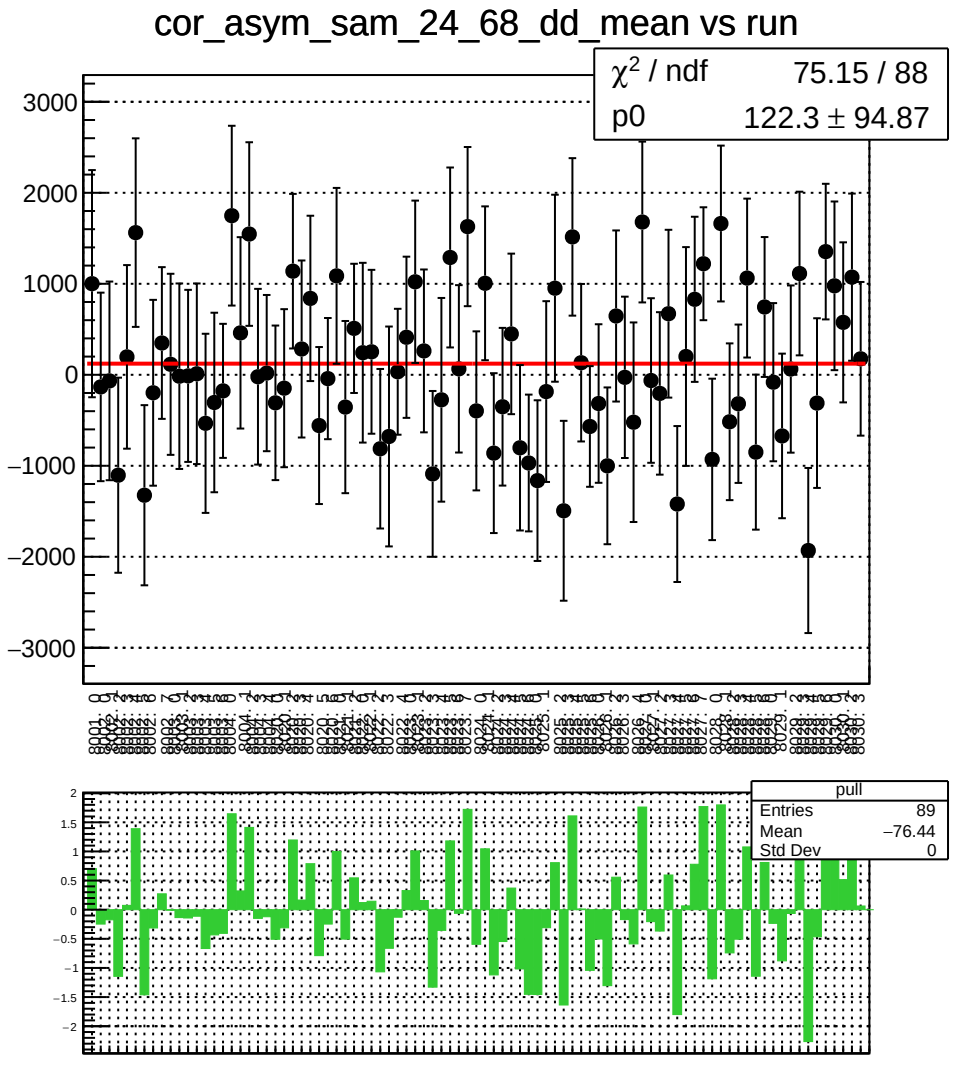

pull1D
Entries 89
Mean −0.00594
Std Dev 0.9189

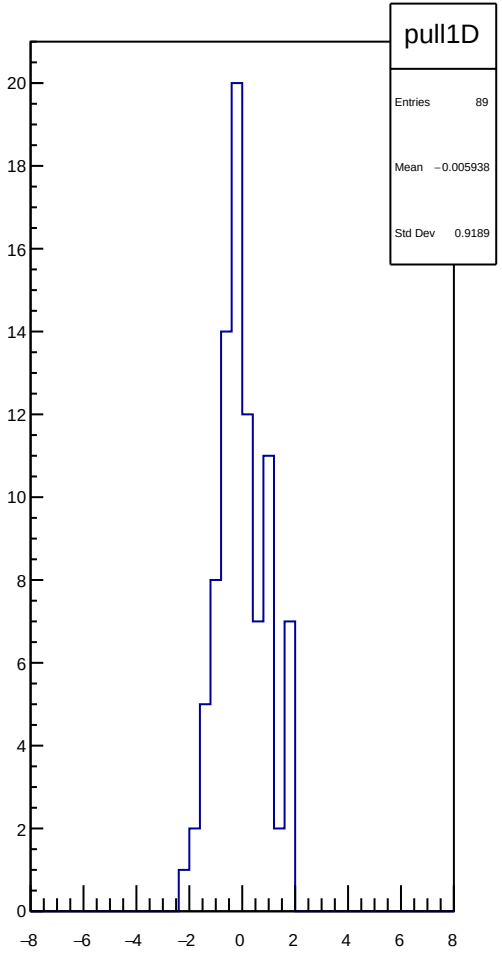

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.17e+04 / 88
p0 88.06 ± 0.06708
115
110
105
100
95
90
85
80

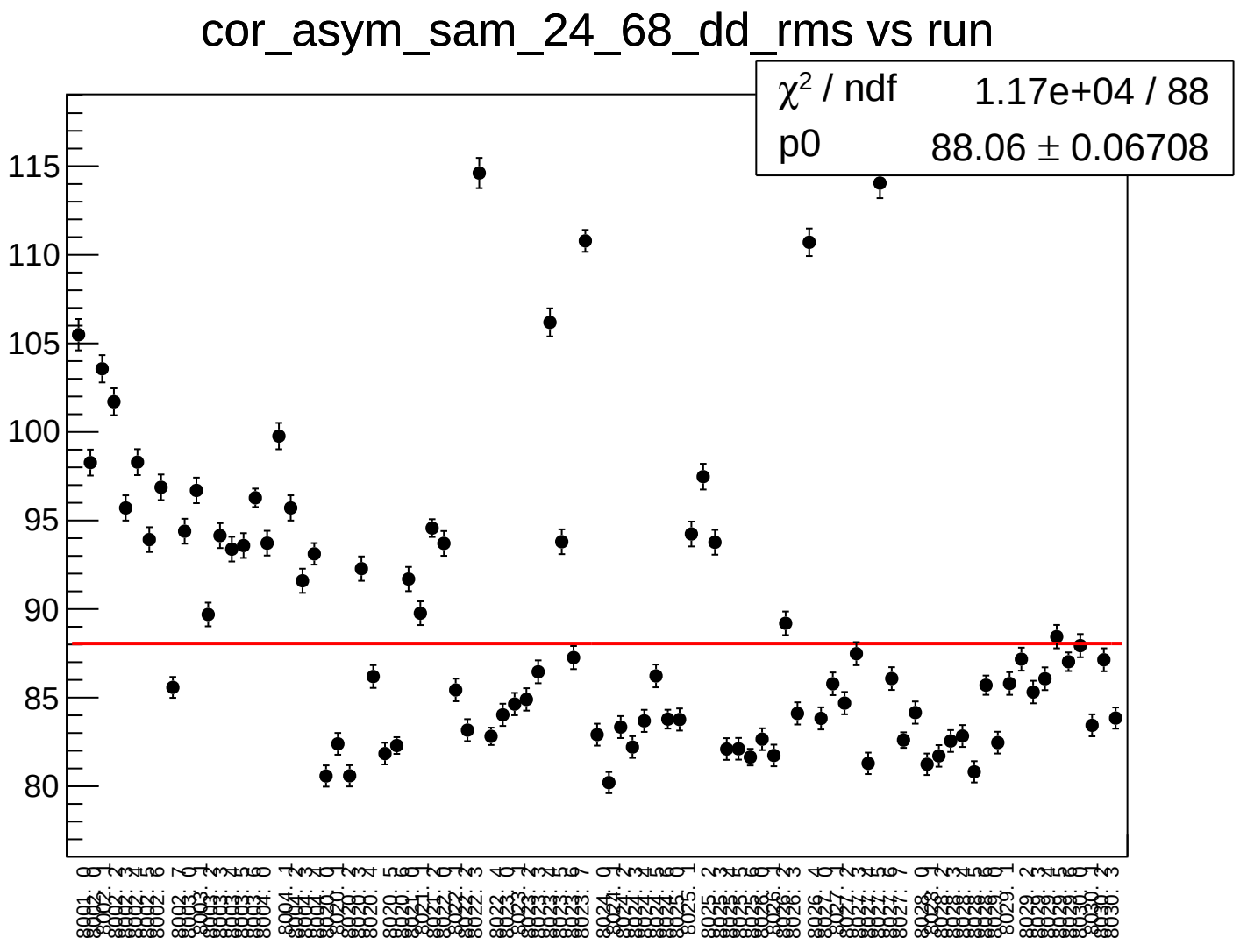

asym_sam_24_68_dd_reg_correction_mean vs run
×10^3
χ² / ndf 85.77 / 88
p0 712.5 ± 2226
pull
Entries 89
Mean 178.9
Std Dev 0

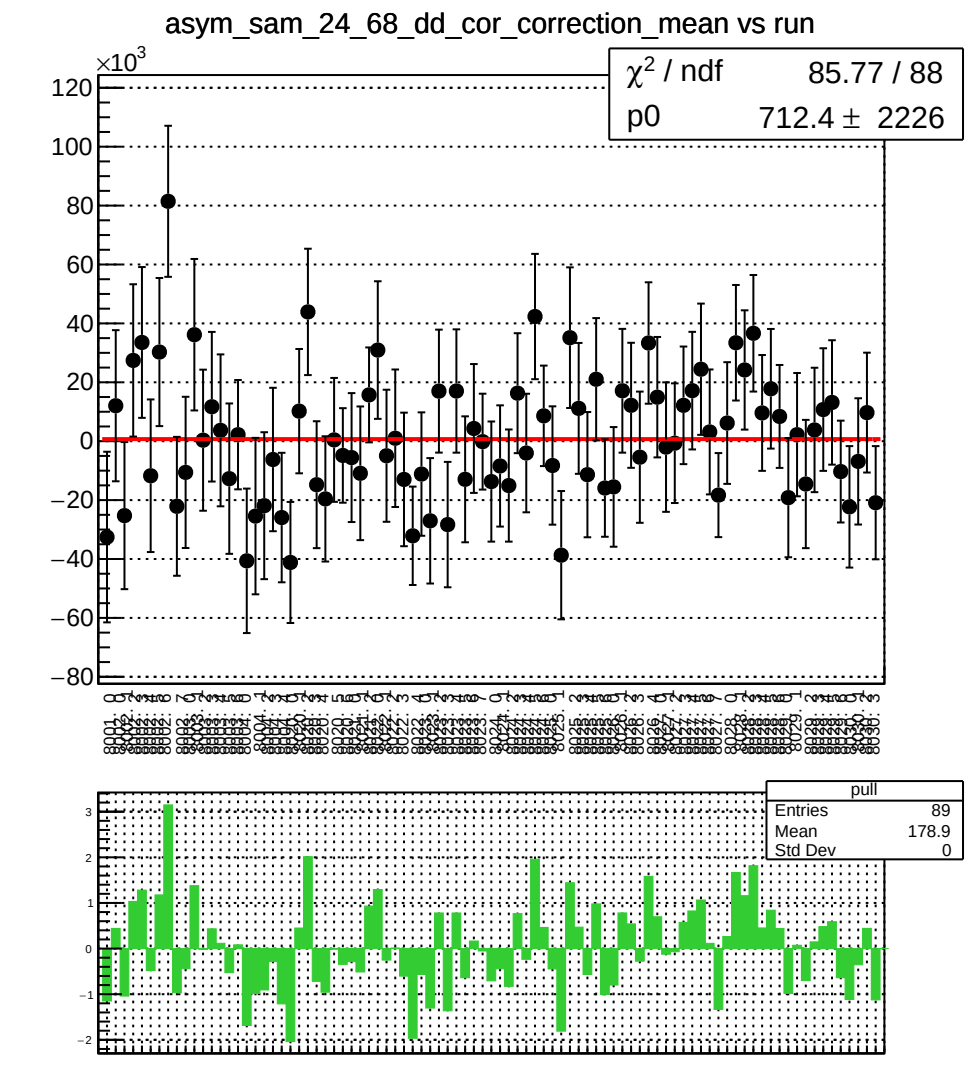

pull1D
Entries 89
Mean 0.01444
Std Dev 0.9816

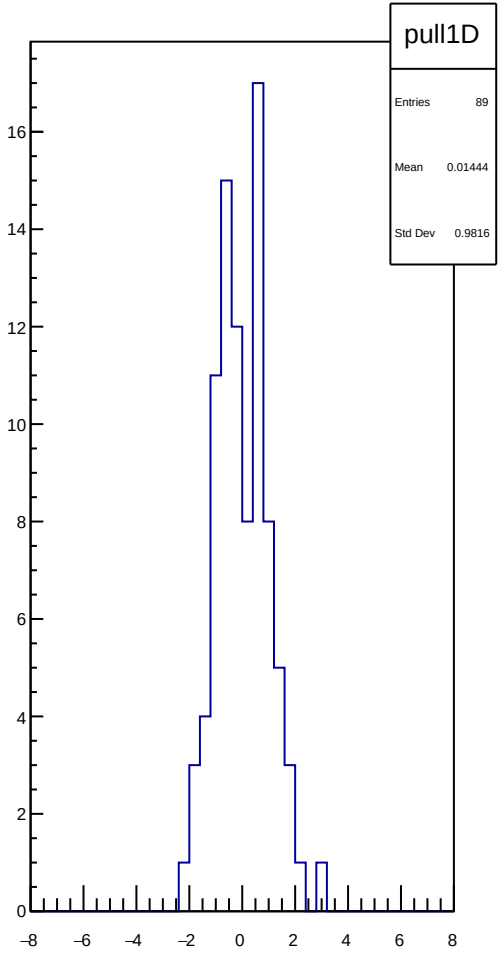

asym_sam_24_68_dd_reg_correction_rms vs run
χ² / ndf 1.241e+04 / 88
p0 2066 ± 1.574
2600
2500
2400
2300
2200
2100
2000
1900
1800

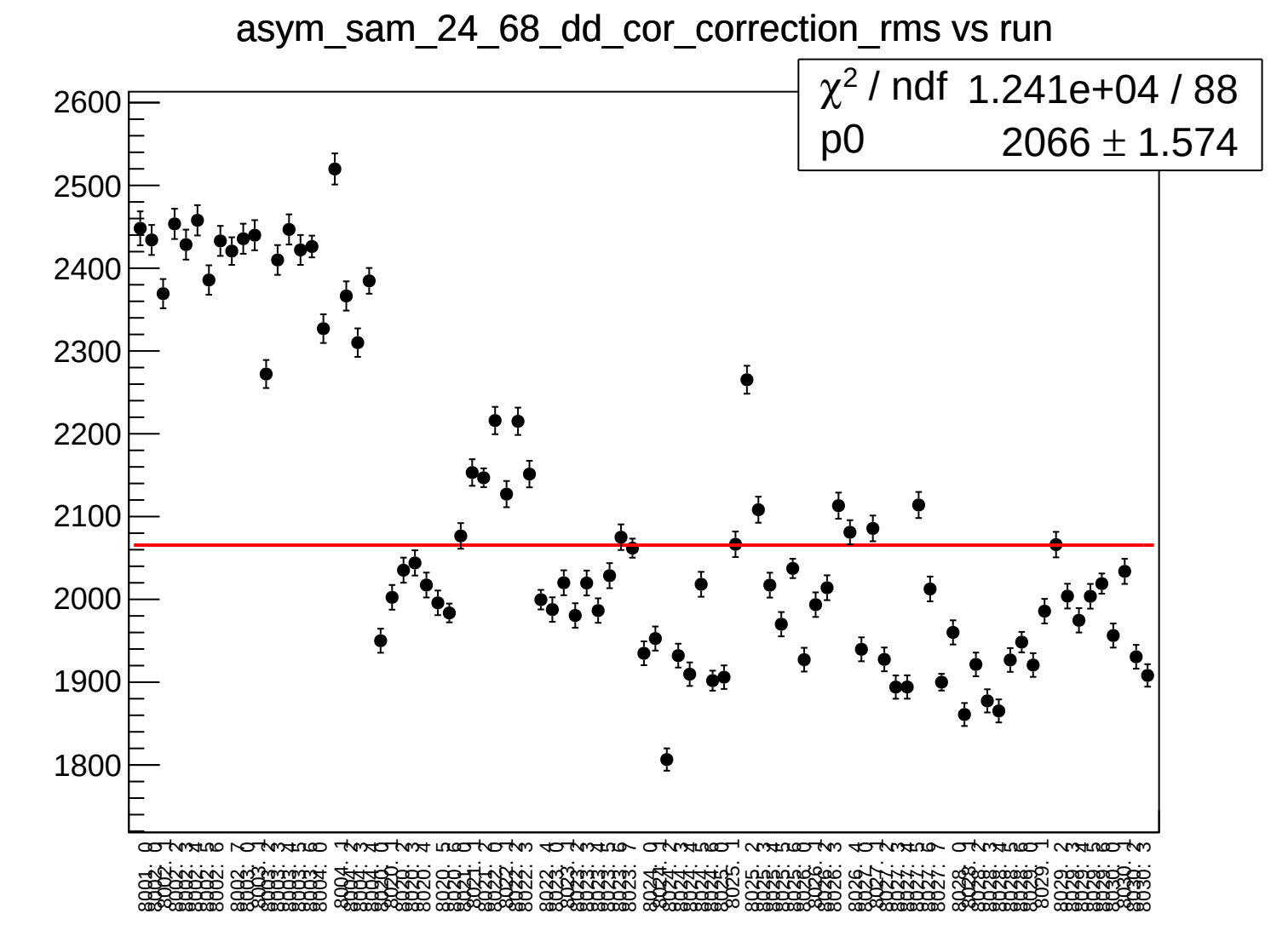

cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 75.15 / 88
p0 122.3 ± 94.87
pull
Entries 89
Mean −76.44
Std Dev 0

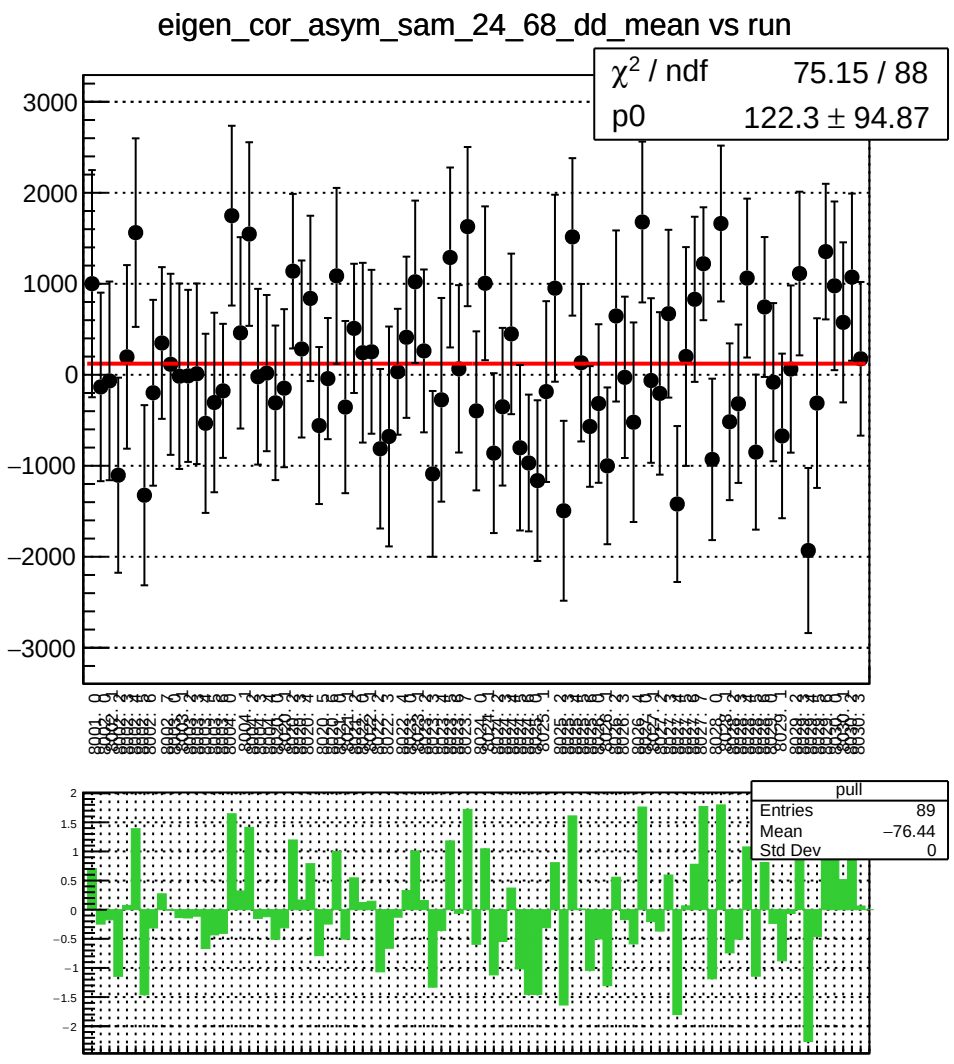

pull1D
Entries 89
Mean −0.005938
Std Dev 0.9189

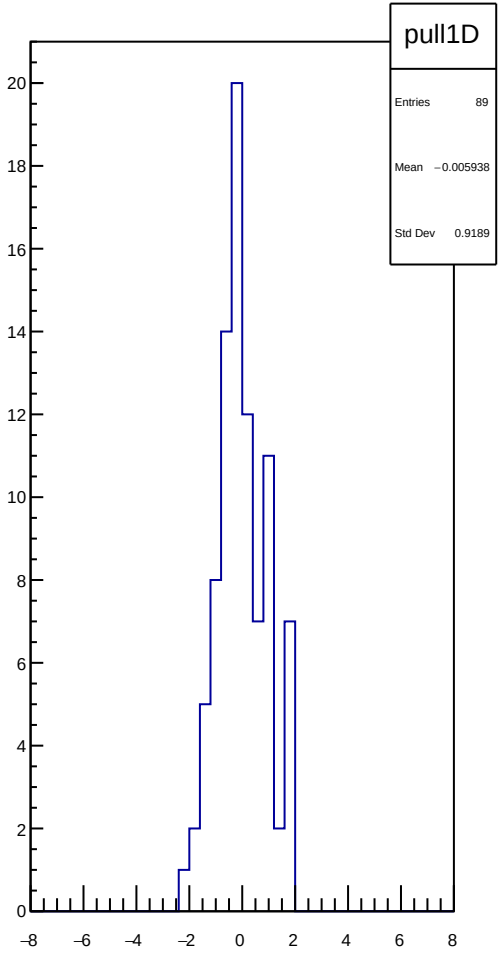

cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.17e+04 / 88
p0 88.06 ± 0.06708
115
110
105
100
95
90
85
80

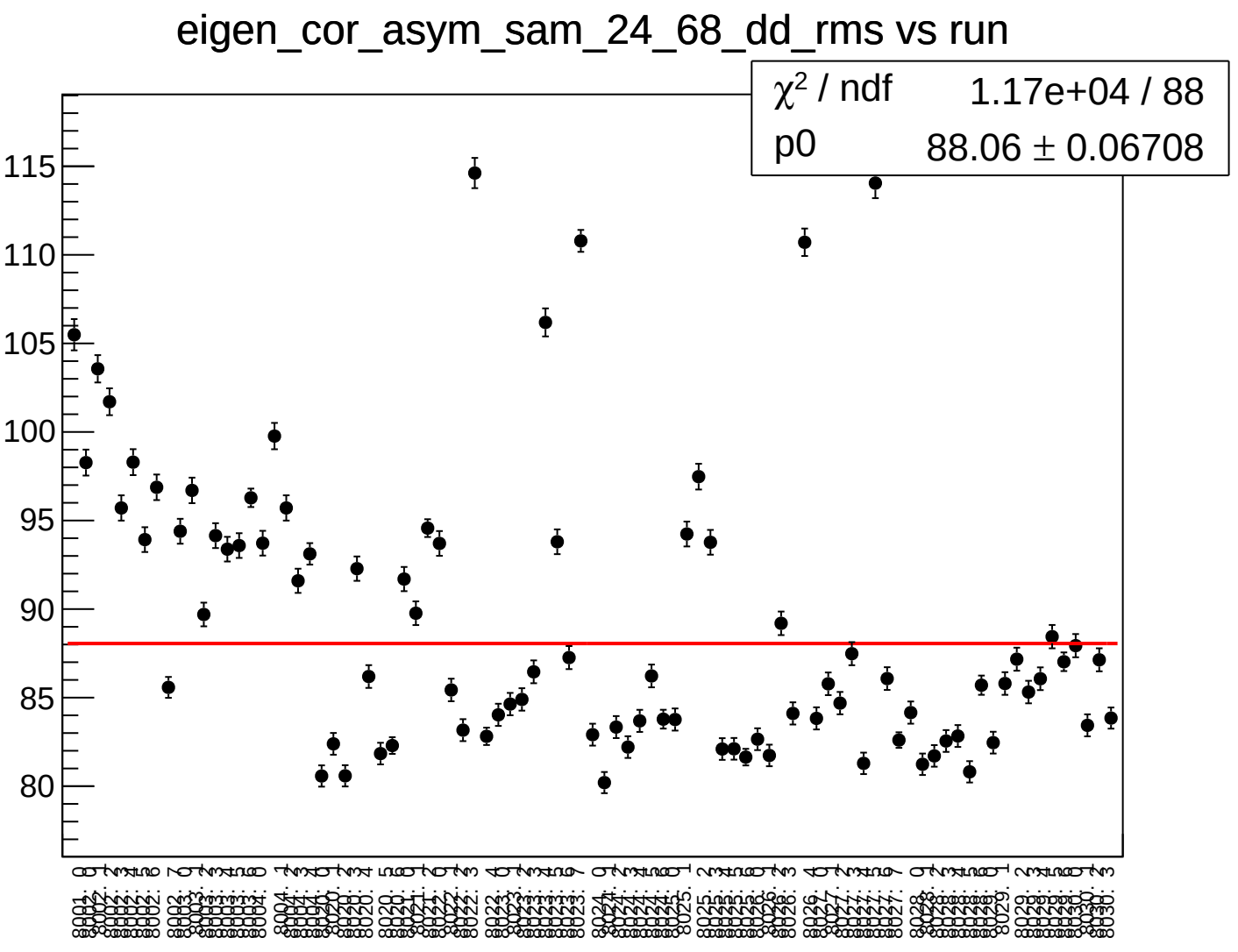

asym_sam_24_68_dd_cor_correction_mean vs run
×10^3
χ² / ndf 85.77 / 88
p0 712.4 ± 2226
pull
Entries 89
Mean 178.9
Std Dev 0

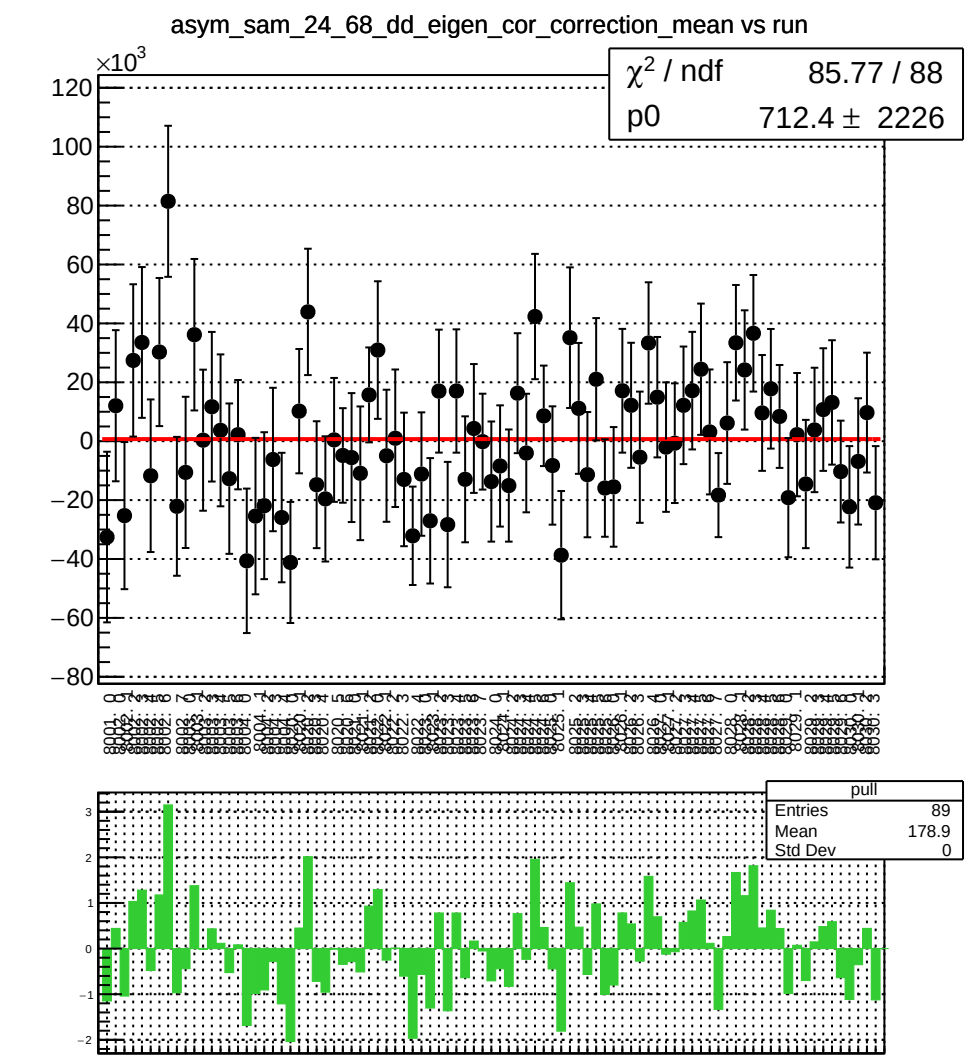

pull1D
Entries 89
Mean 0.01444
Std Dev 0.9816

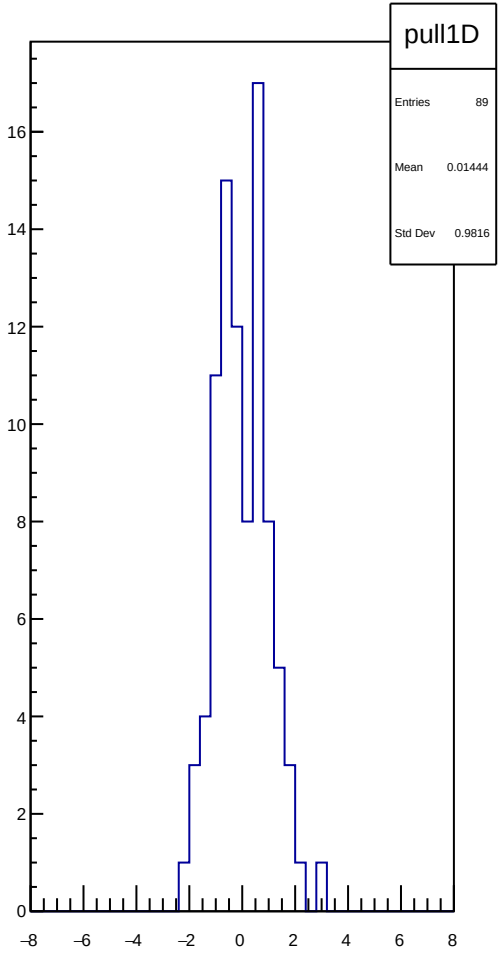

asym_sam_24_68_dd_cor_correction_rms vs run
χ² / ndf 1.241e+04 / 88
p0 2066 ± 1.574
2600
2500
2400
2300
2200
2100
2000
1900
1800

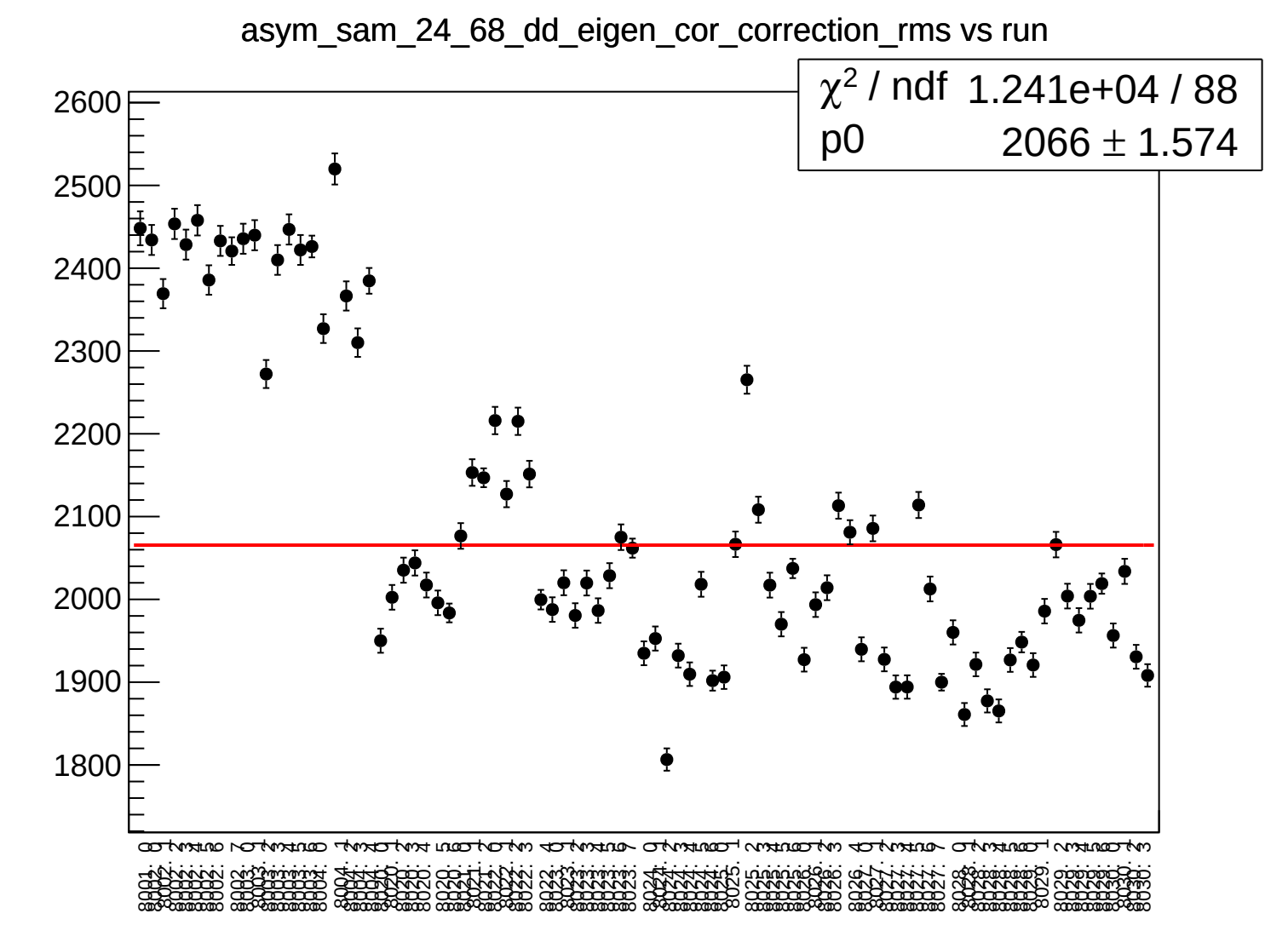

eigen_cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 75.15 / 88
p0 122.3 ± 94.87
pull
Entries 89
Mean −76.44
Std Dev 0

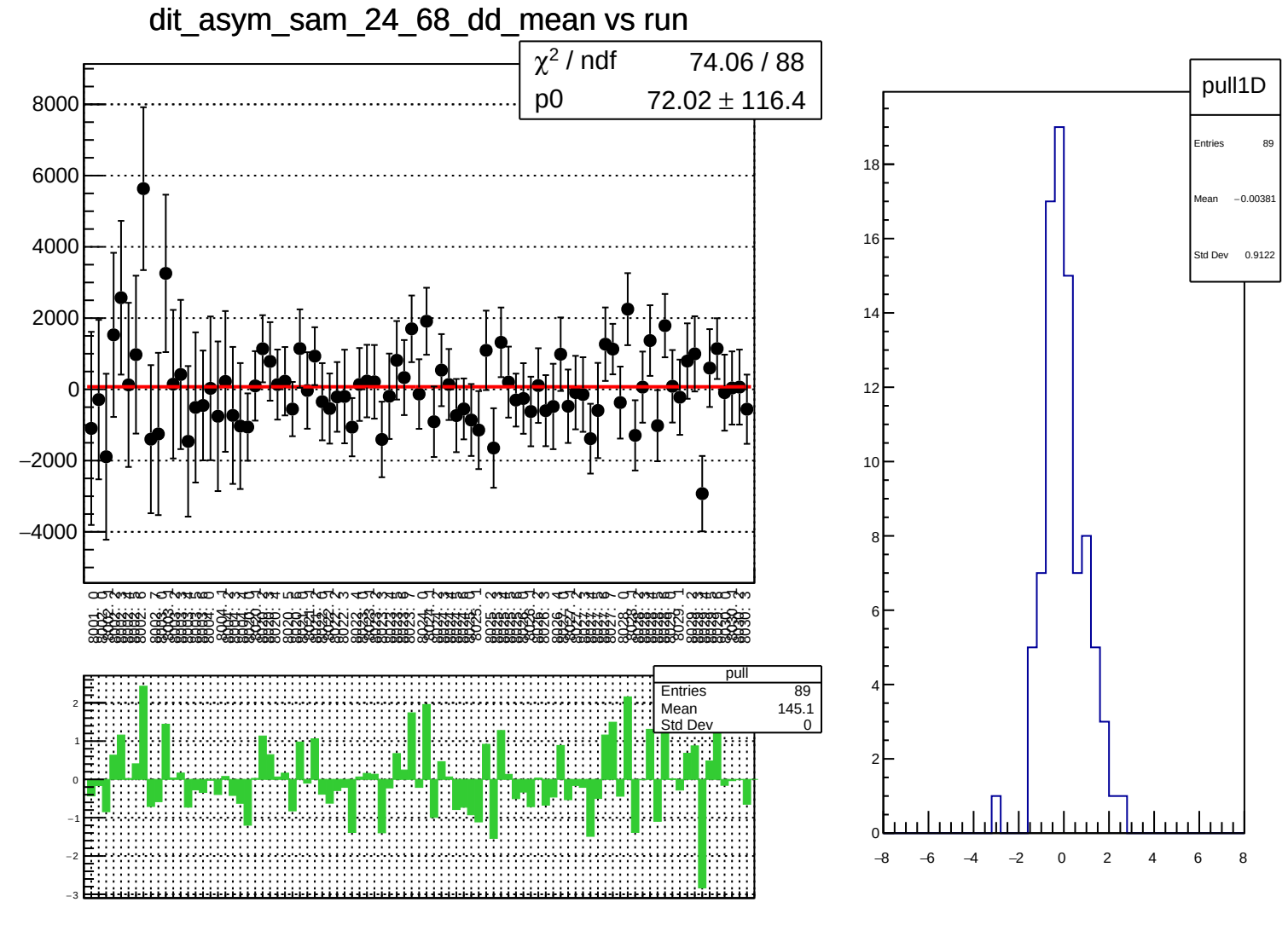

pull1D
Entries 89
Mean −0.005938
Std Dev 0.9189

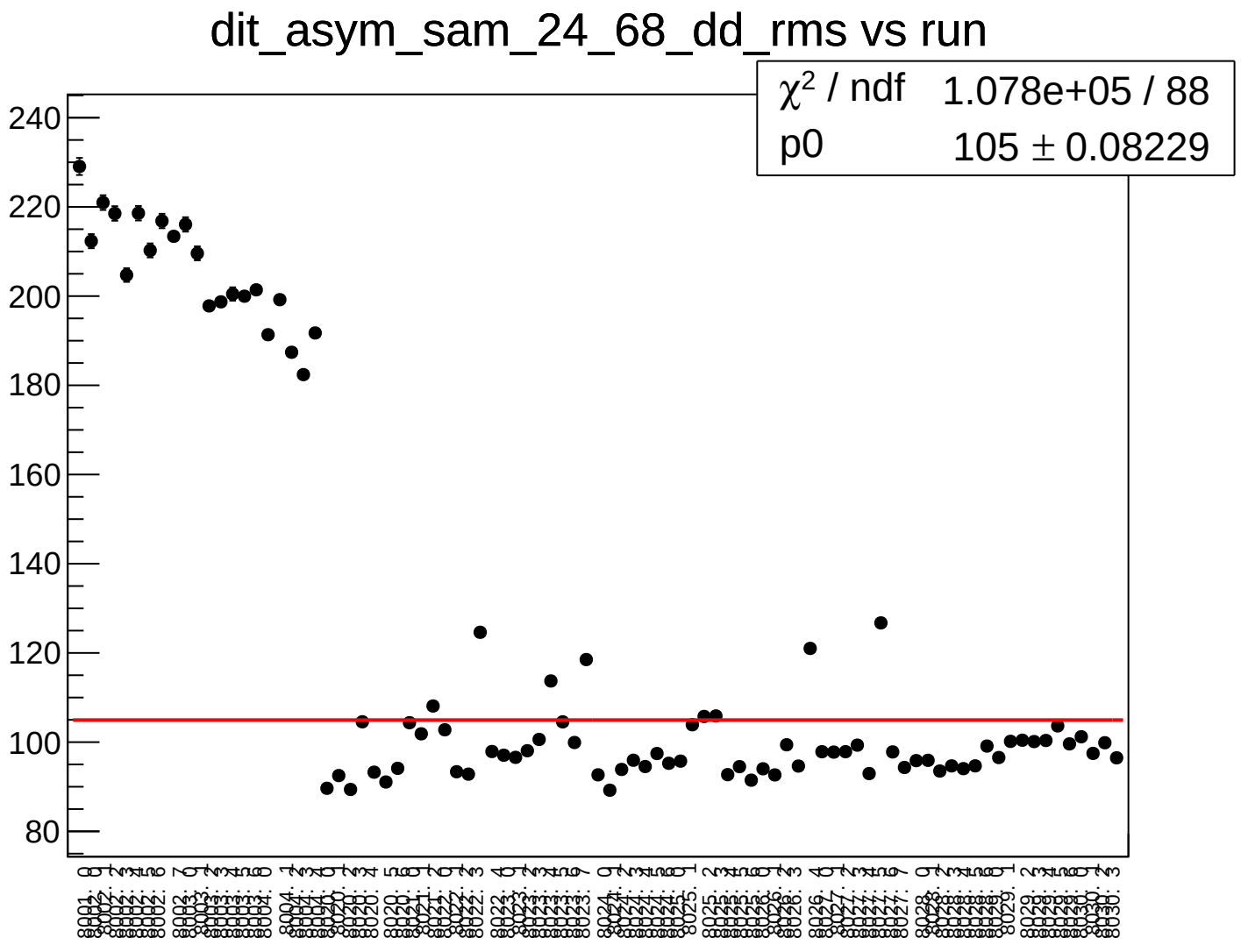

eigen_cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.17e+04 / 88
p0 88.06 ± 0.06708
115
110
105
100
95
90
85
80

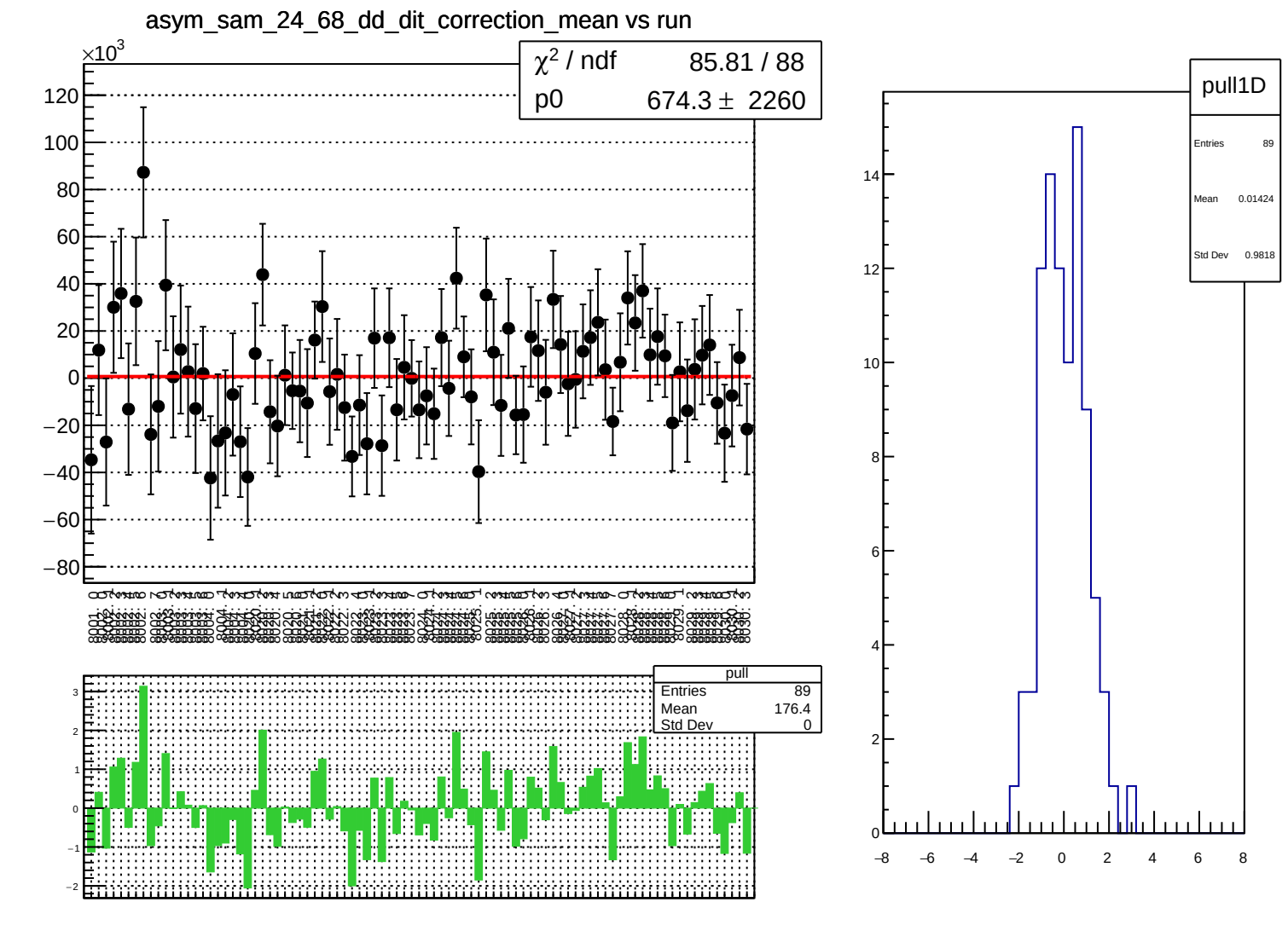

asym_sam_24_68_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 85.77 / 88
p0 712.4 ± 2226
pull
Entries 89
Mean 178.9
Std Dev 0

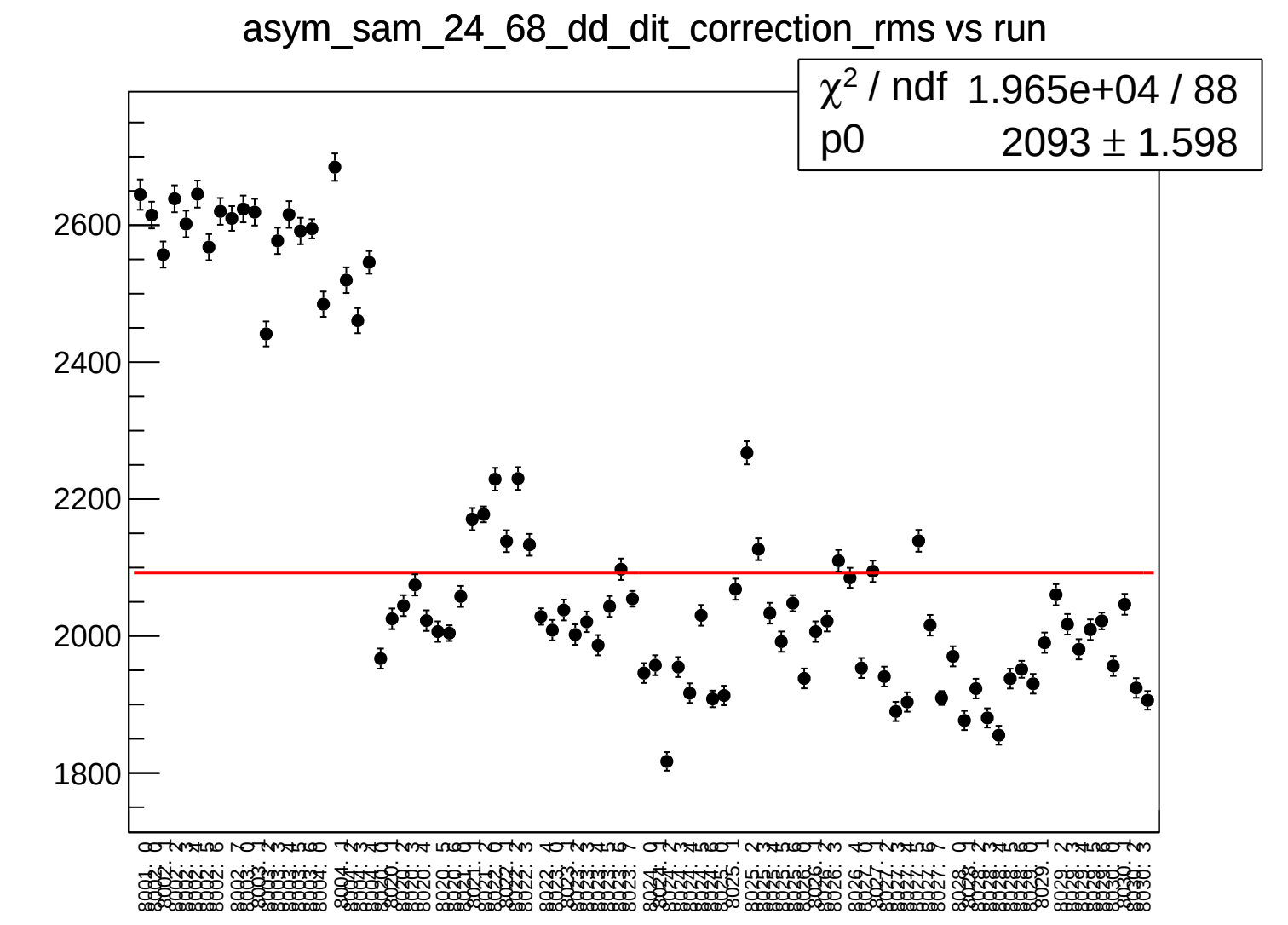

pull1D
Entries 89
Mean 0.01444
Std Dev 0.9816

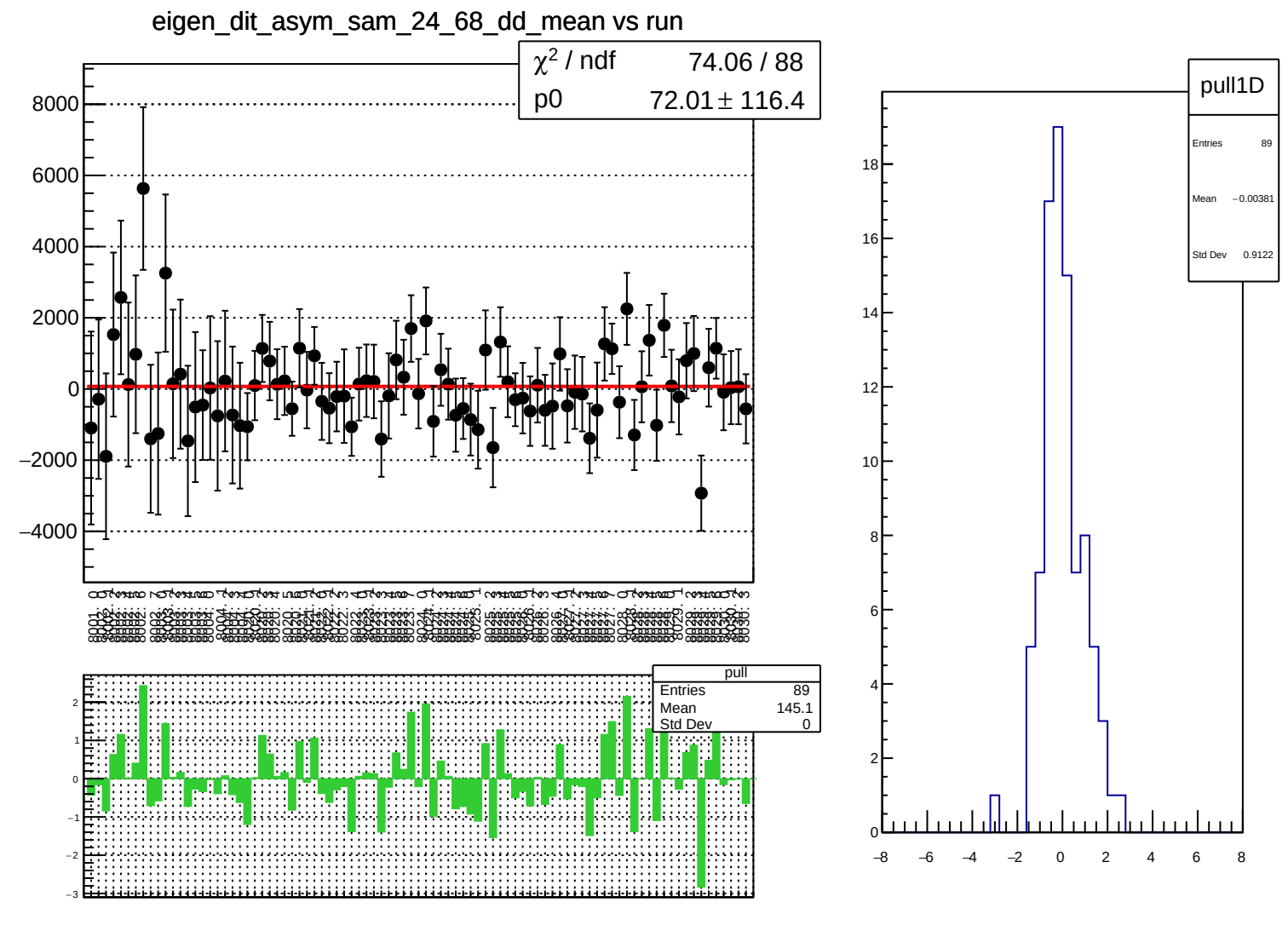

asym_sam_24_68_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.241e+04 / 88
p0 2066 ± 1.574
2600
2500
2400
2300
2200
2100
2000
1900
1800

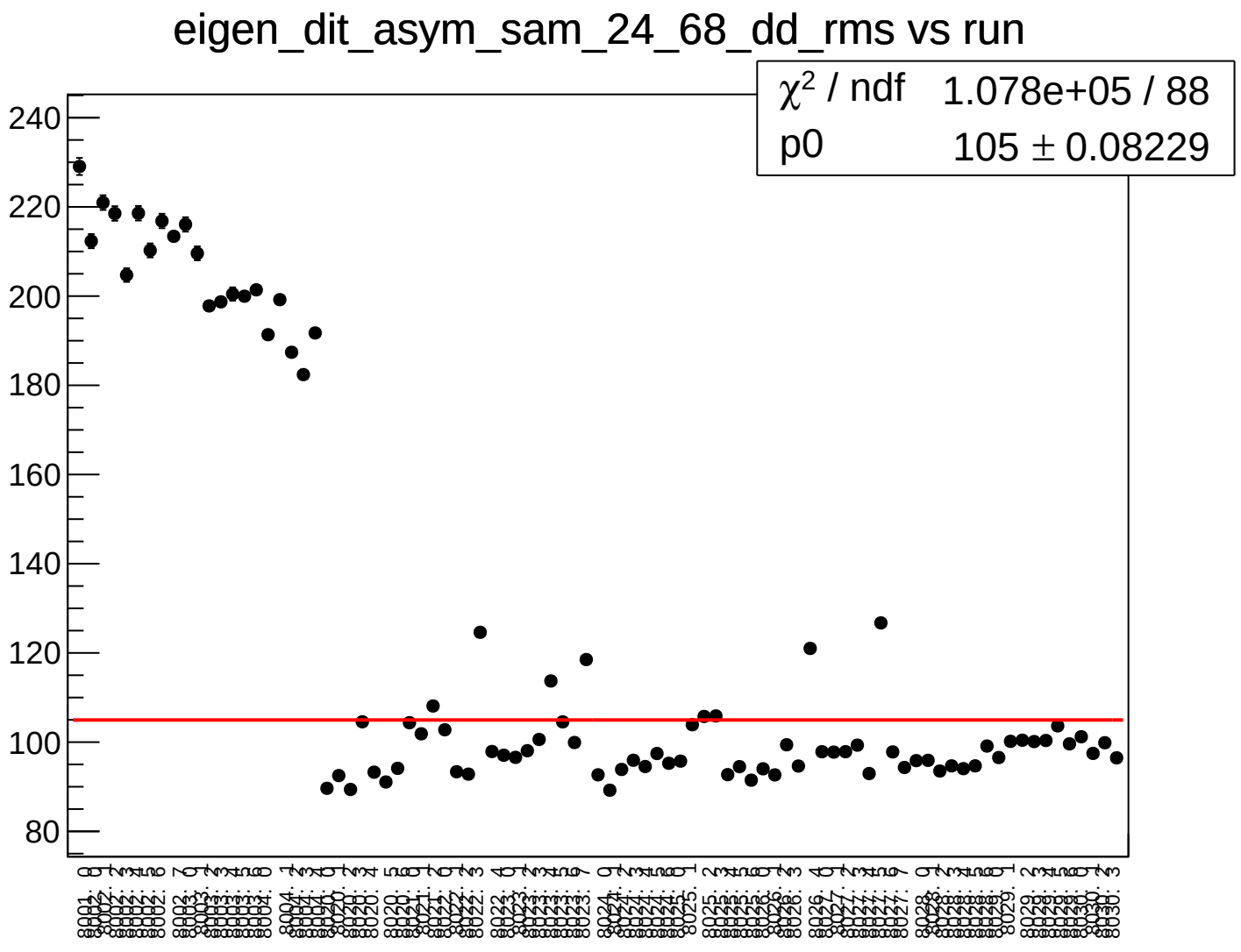

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 74.06 / 88
p0 72.02 ± 116.4
8000
6000
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 145.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.00381
Std Dev 0.9122
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

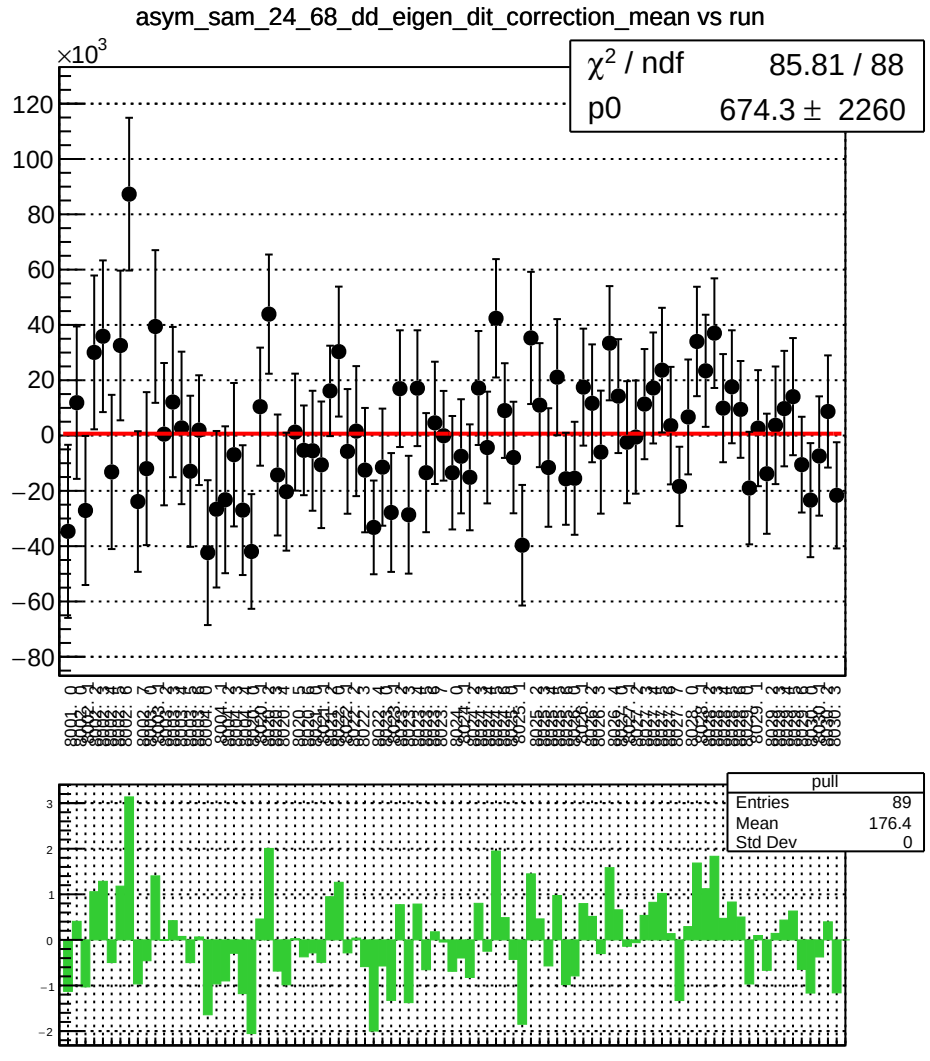

dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.078e+05 / 88
p0 105 ± 0.08229
240
220
200
180
160
140
120
100
80

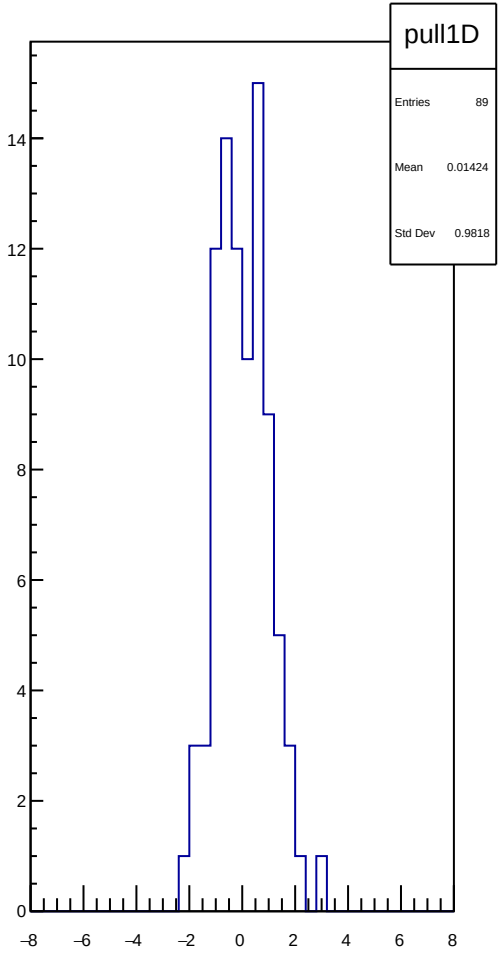

asym_sam_24_68_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 85.81 / 88
p0 674.3 ± 2260
pull
Entries 89
Mean 176.4
Std Dev 0
pull1D
Entries 89
Mean 0.01424
Std Dev 0.9818

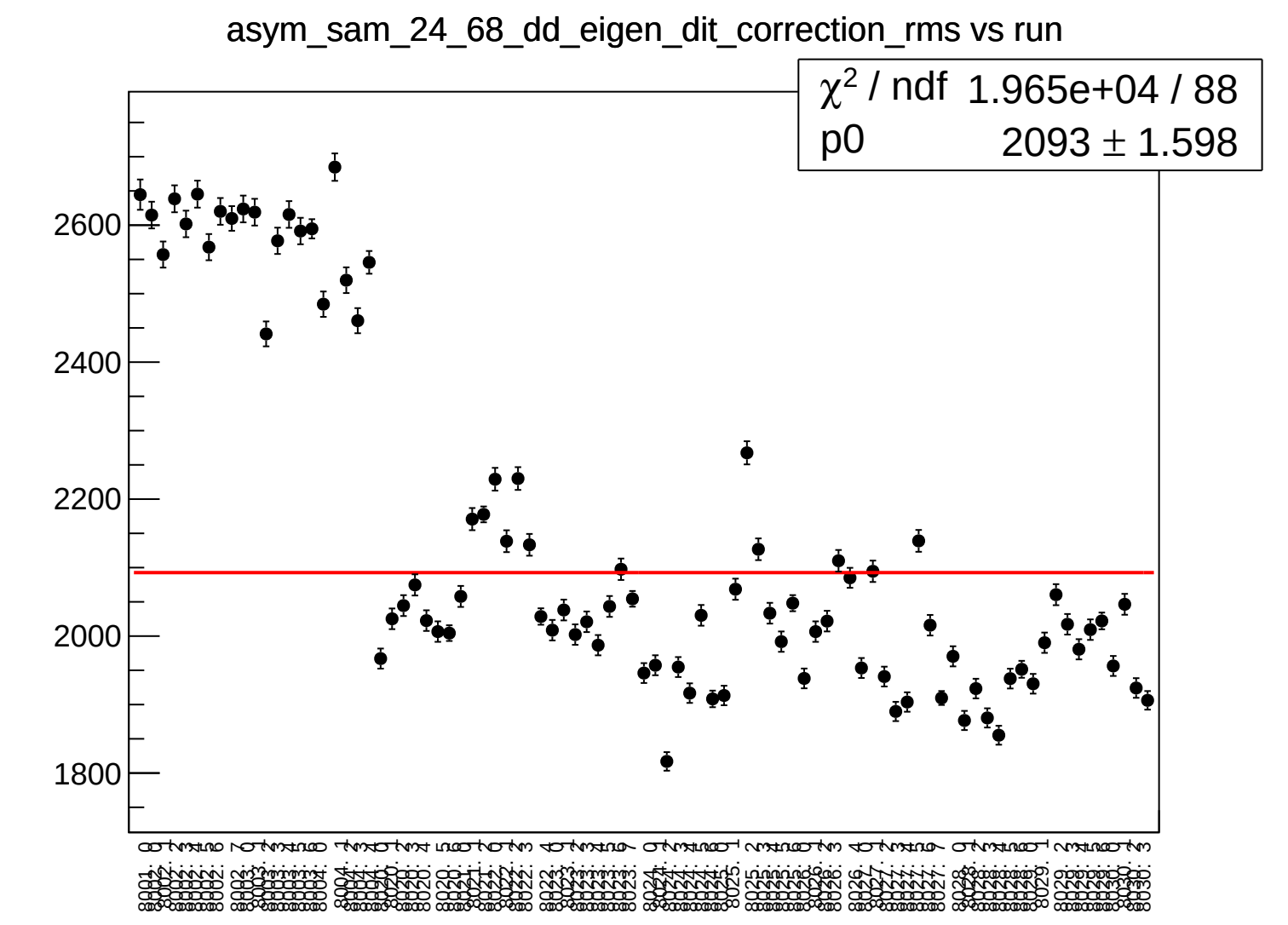

asym_sam_24_68_dd_dit_correction_rms vs run
χ² / ndf 1.965e+04 / 88
p0 2093 ± 1.598
2600
2400
2200
2000
1800

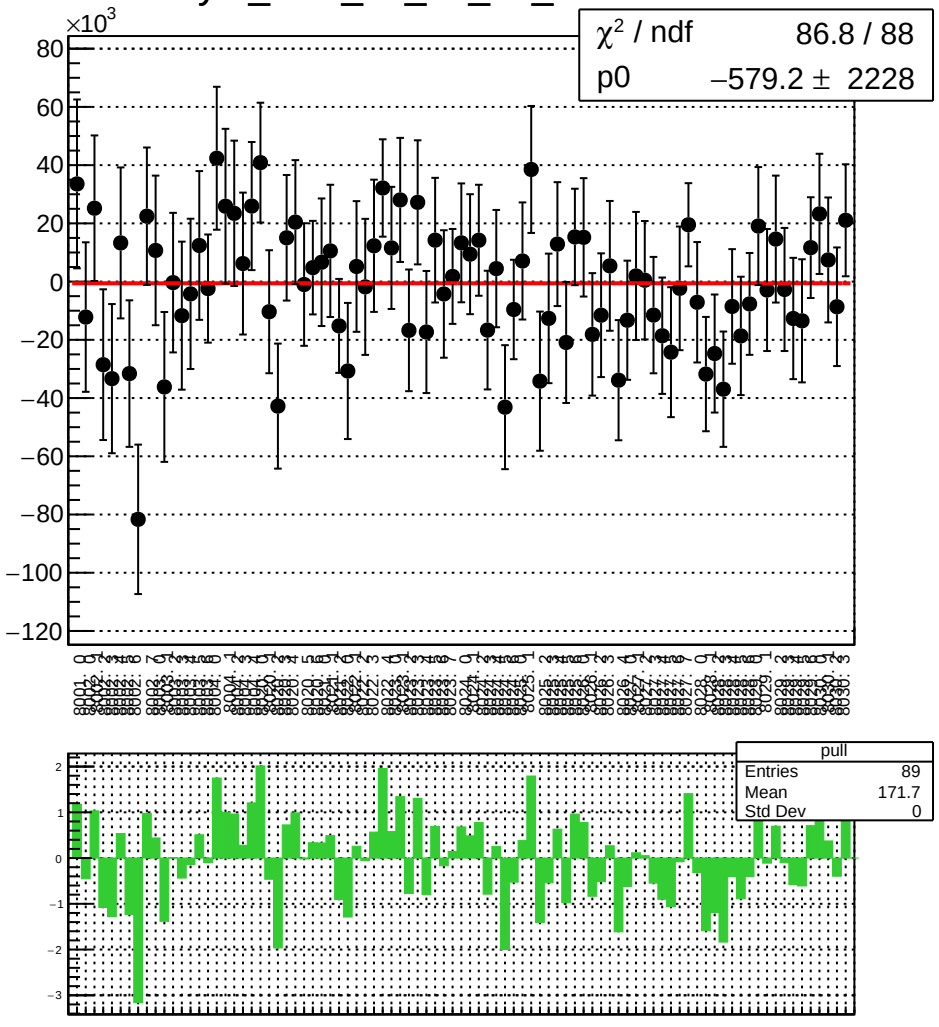

eigen_dit_asym_sam_24_68_dd_mean vs run
χ^2 / ndf 74.06 / 88
p0 72.01 ± 116.4
8000
6000
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 145.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.00381
Std Dev 0.9122
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

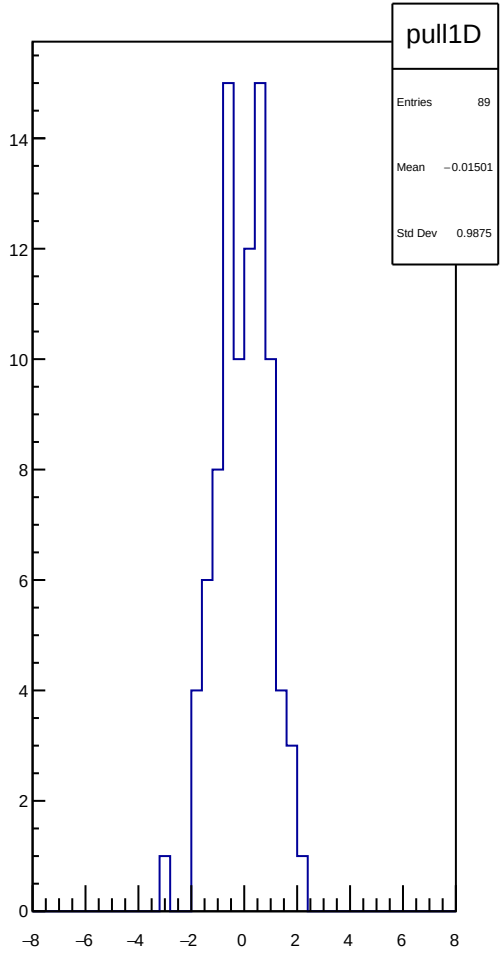

eigen_dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.078e+05 / 88
p0 105 ± 0.08229
240
220
200
180
160
140
120
100
80

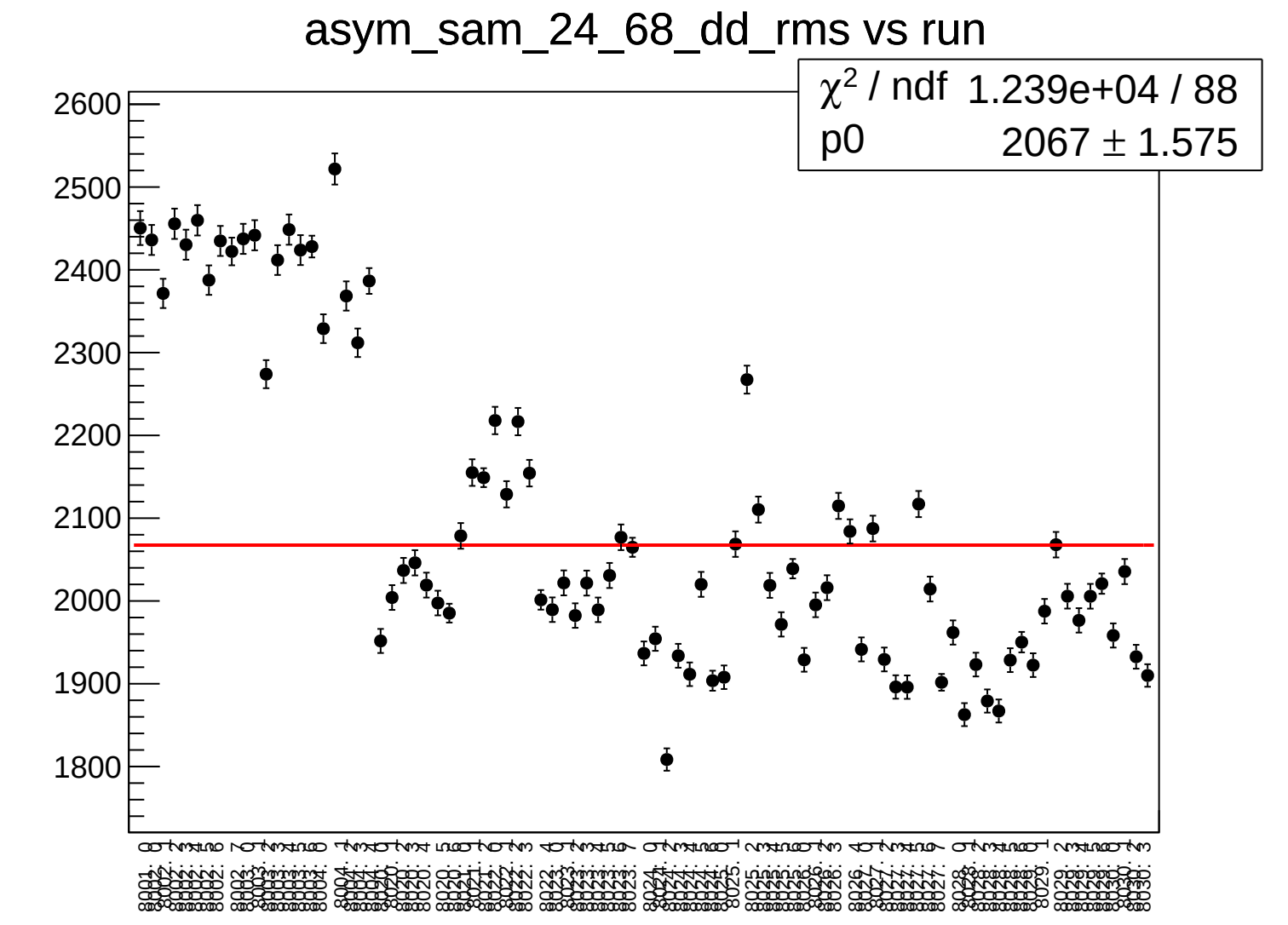

asym_sam_24_68_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 85.81 / 88
p0 674.3 ± 2260
pull
Entries 89
Mean 176.4
Std Dev 0

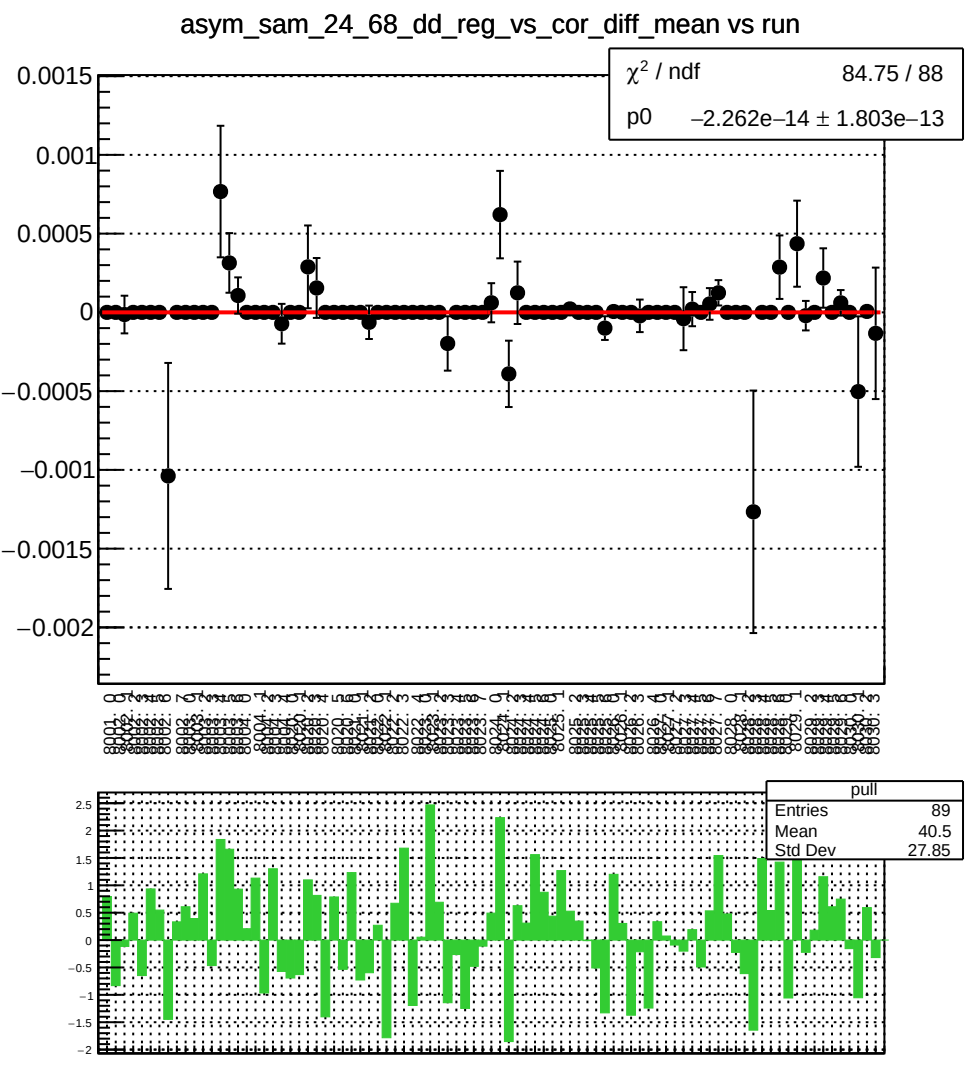

pull1D
Entries 89
Mean 0.01424
Std Dev 0.9818

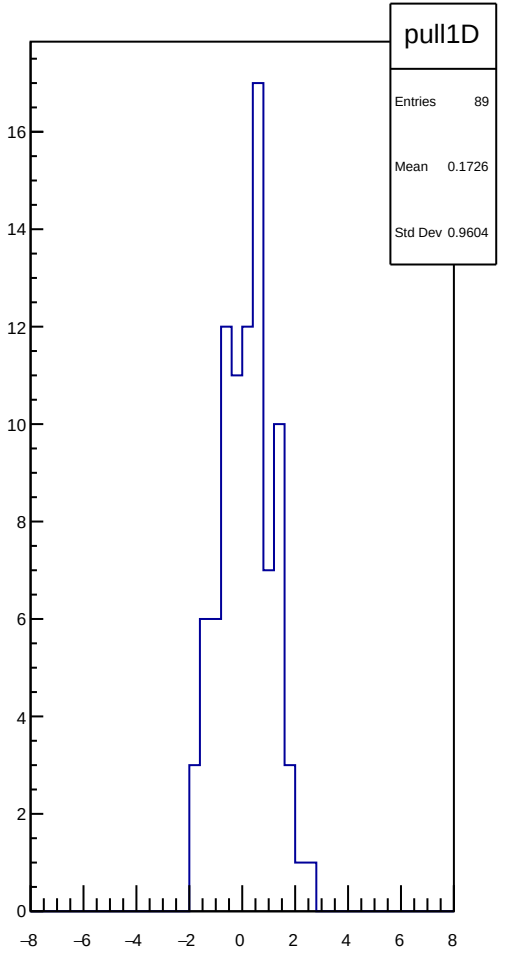

asym_sam_24_68_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.965e+04 / 88
p0 2093 ± 1.598
2600
2400
2200
2000
1800

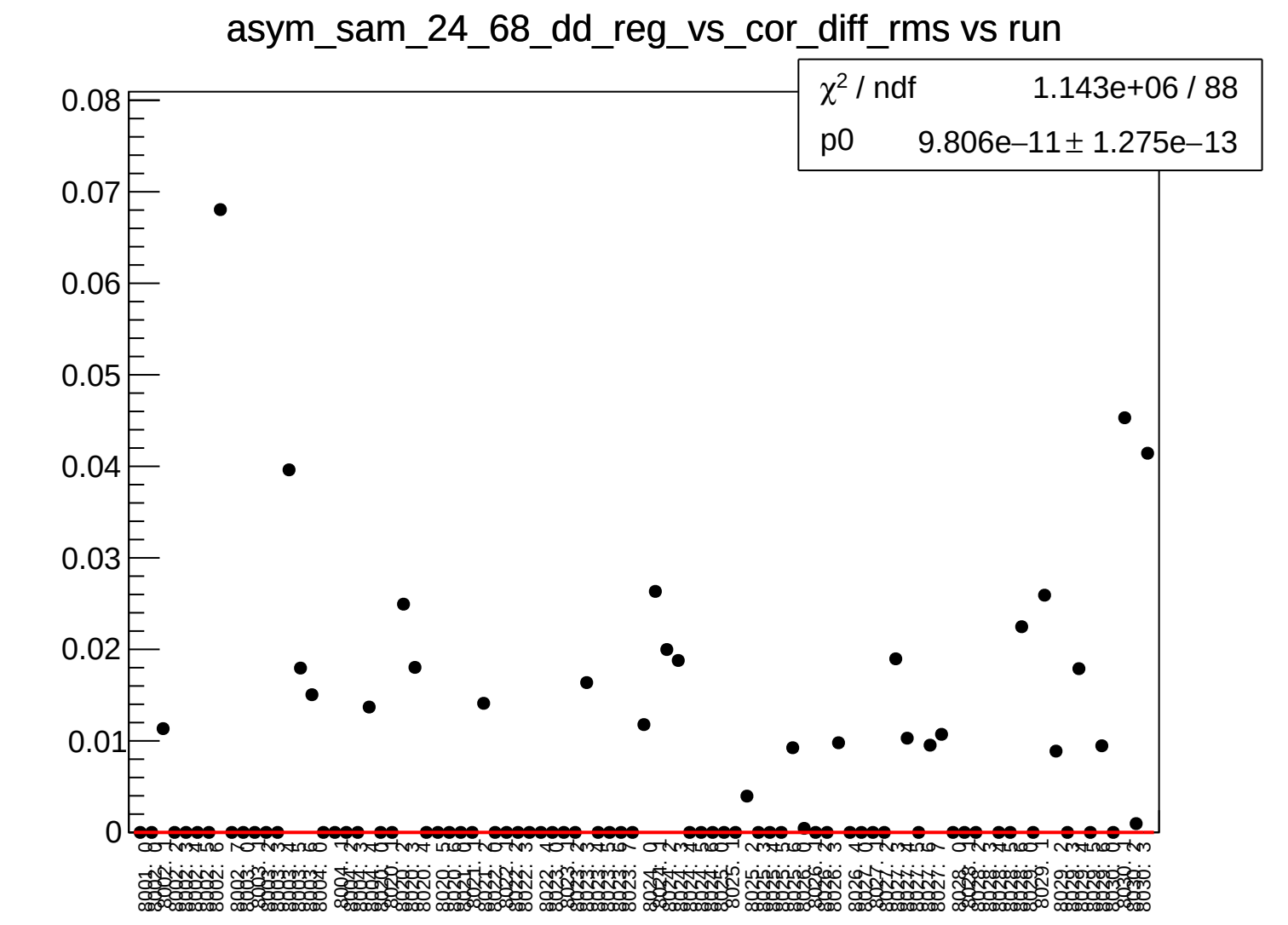

asym_sam_24_68_dd_mean vs run
×10^3
χ² / ndf 86.8 / 88
p0 −579.2 ± 2228
pull
Entries 89
Mean 171.7
Std Dev 0

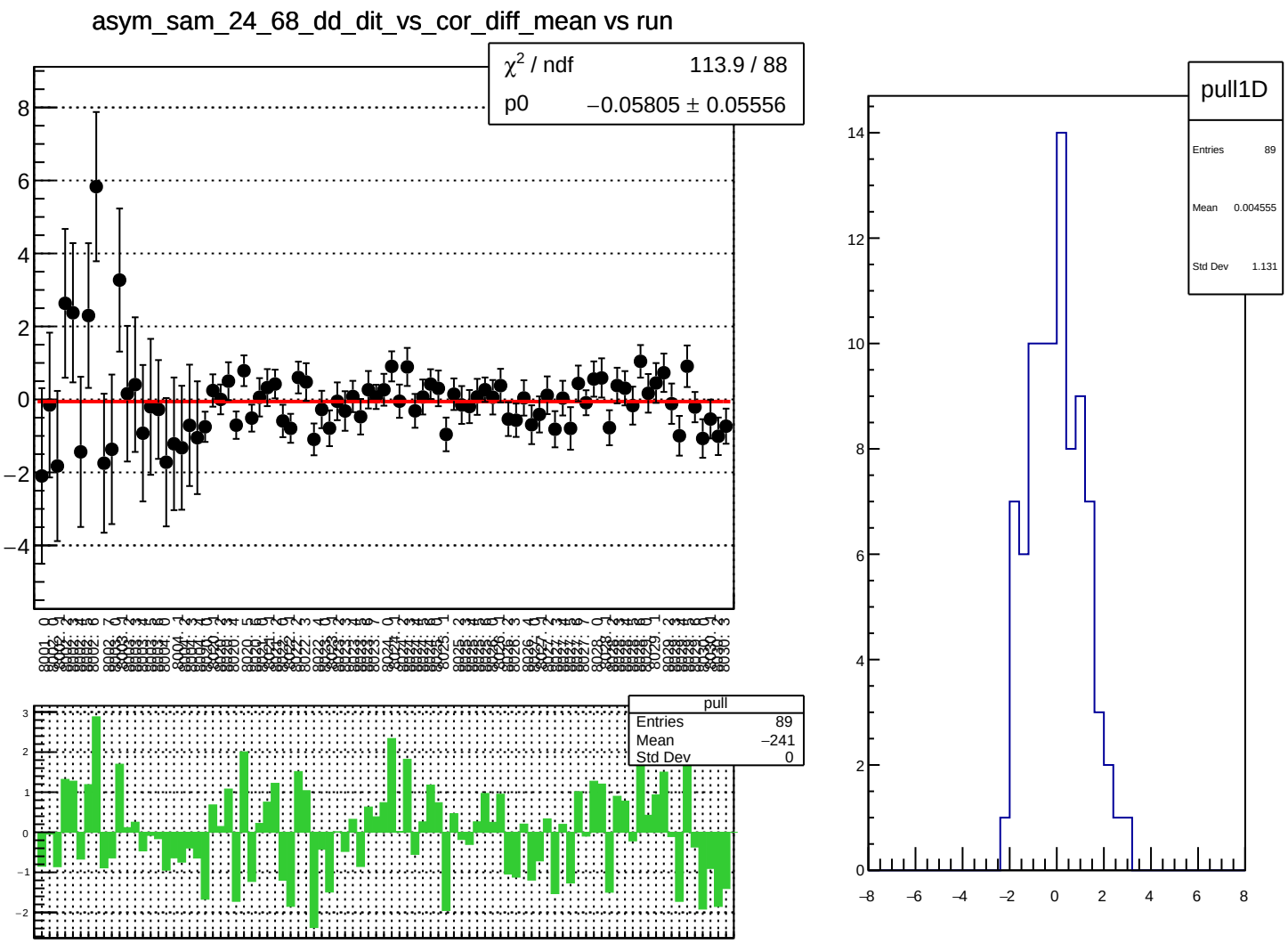

pull1D
Entries 89
Mean −0.01501
Std Dev 0.9875

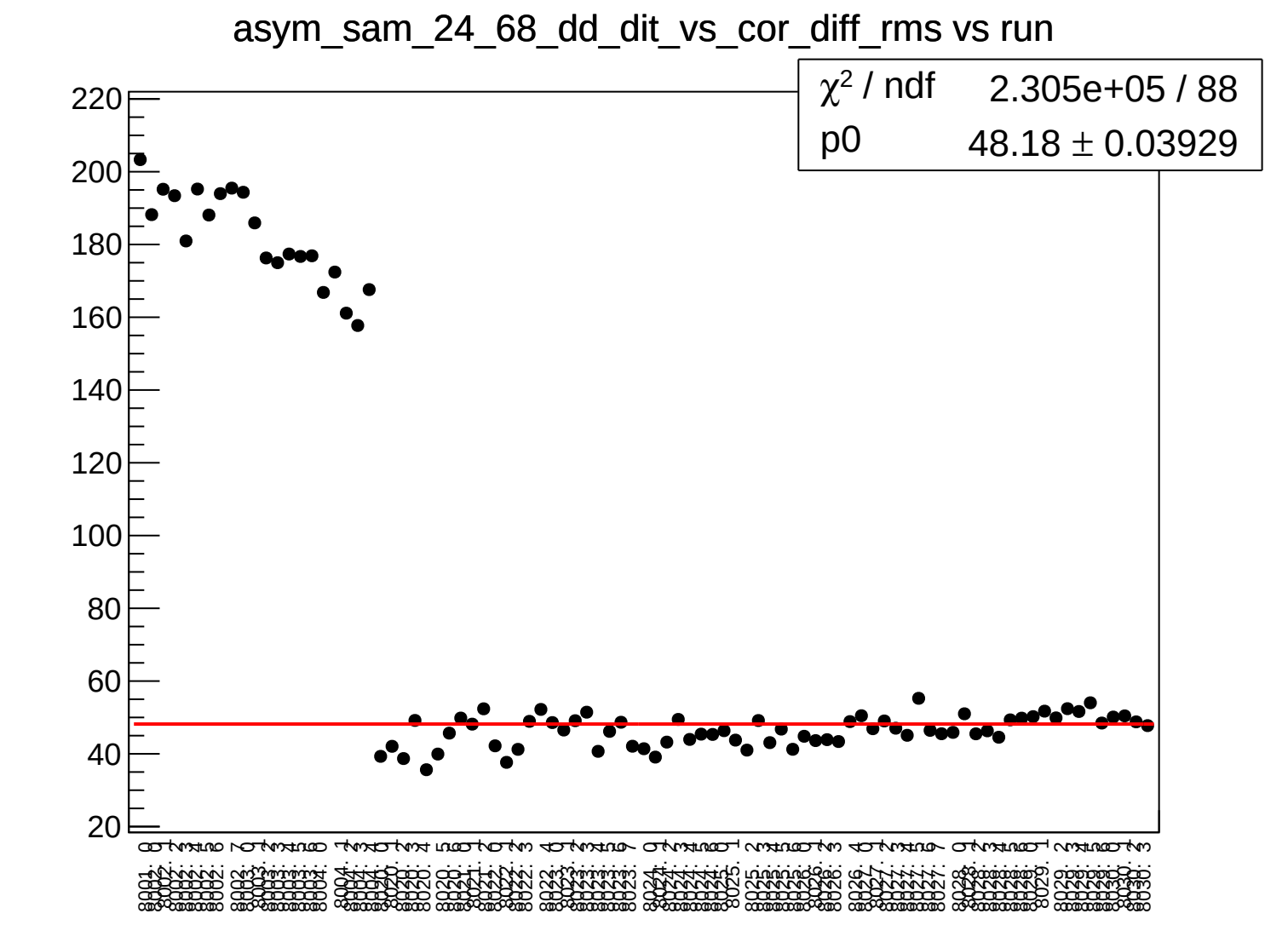

asym_sam_24_68_dd_rms vs run
χ^2 / ndf 1.239e+04 / 88
p0 2067 ± 1.575
2600
2500
2400
2300
2200
2100
2000
1900
1800

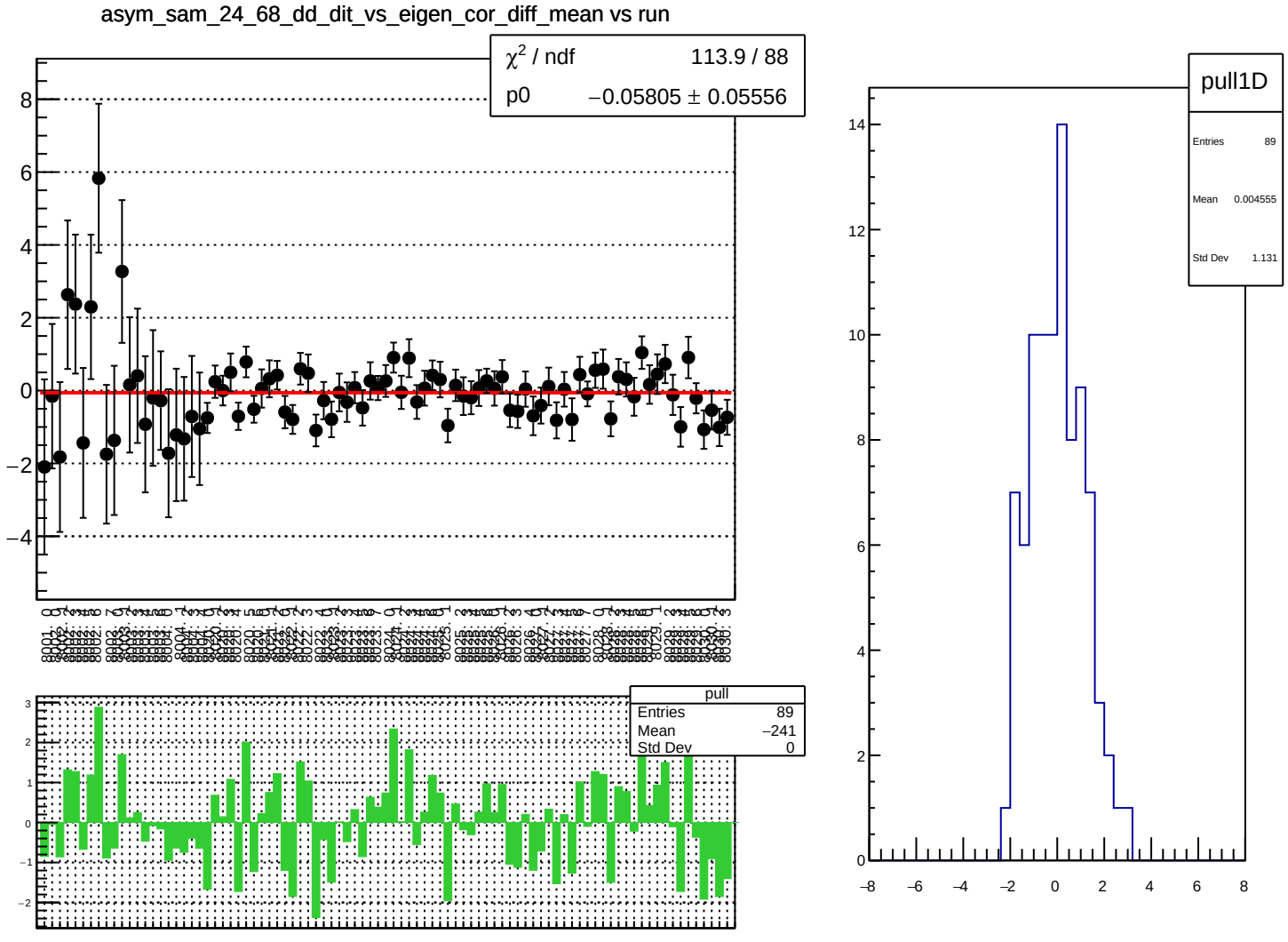

asym_sam_24_68_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 84.75 / 88
p0 −2.262e−14 ± 1.803e−13
pull
Entries 89
Mean 40.5
Std Dev 27.85

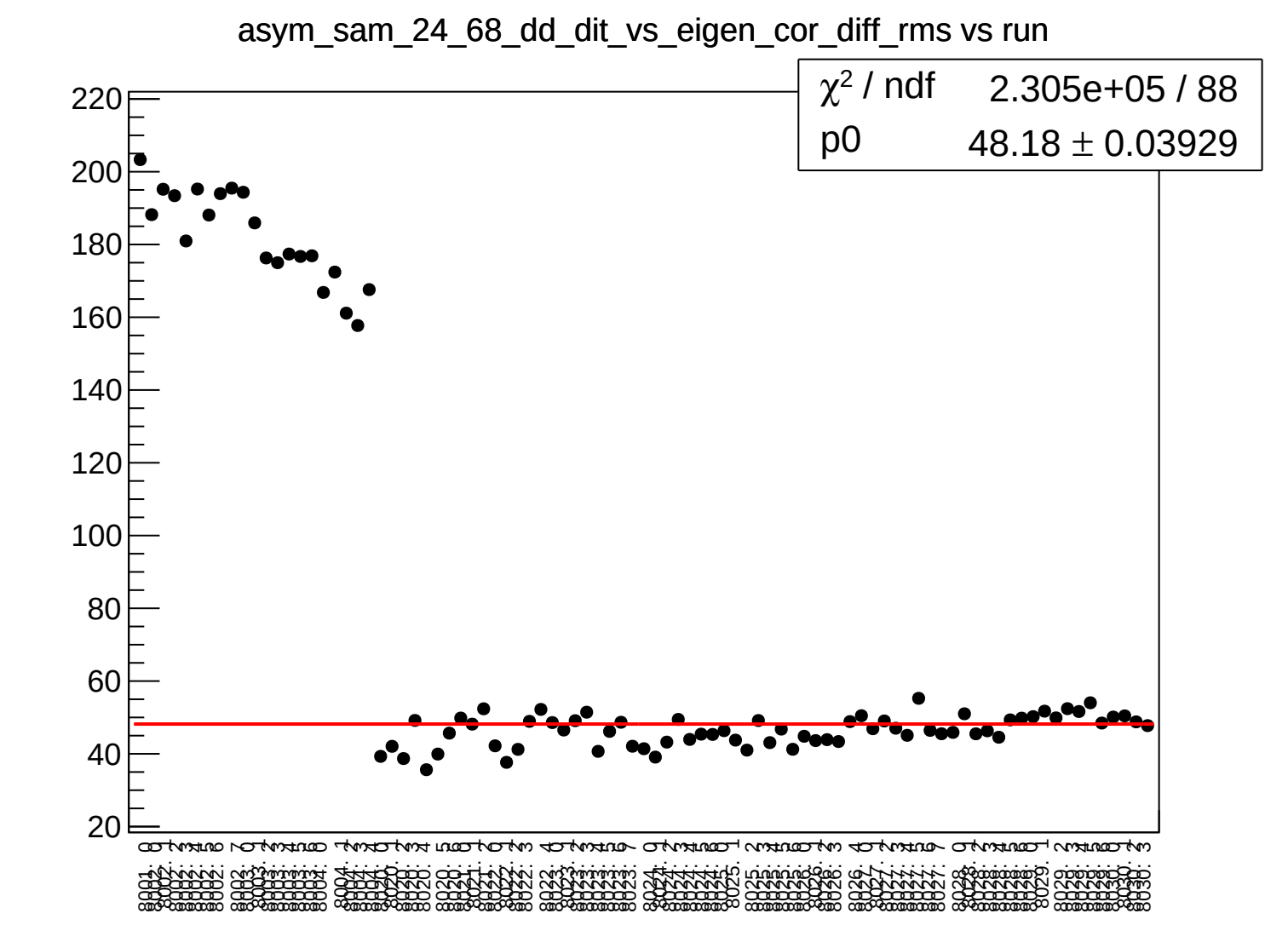

pull1D
Entries 89
Mean 0.1726
Std Dev 0.9604

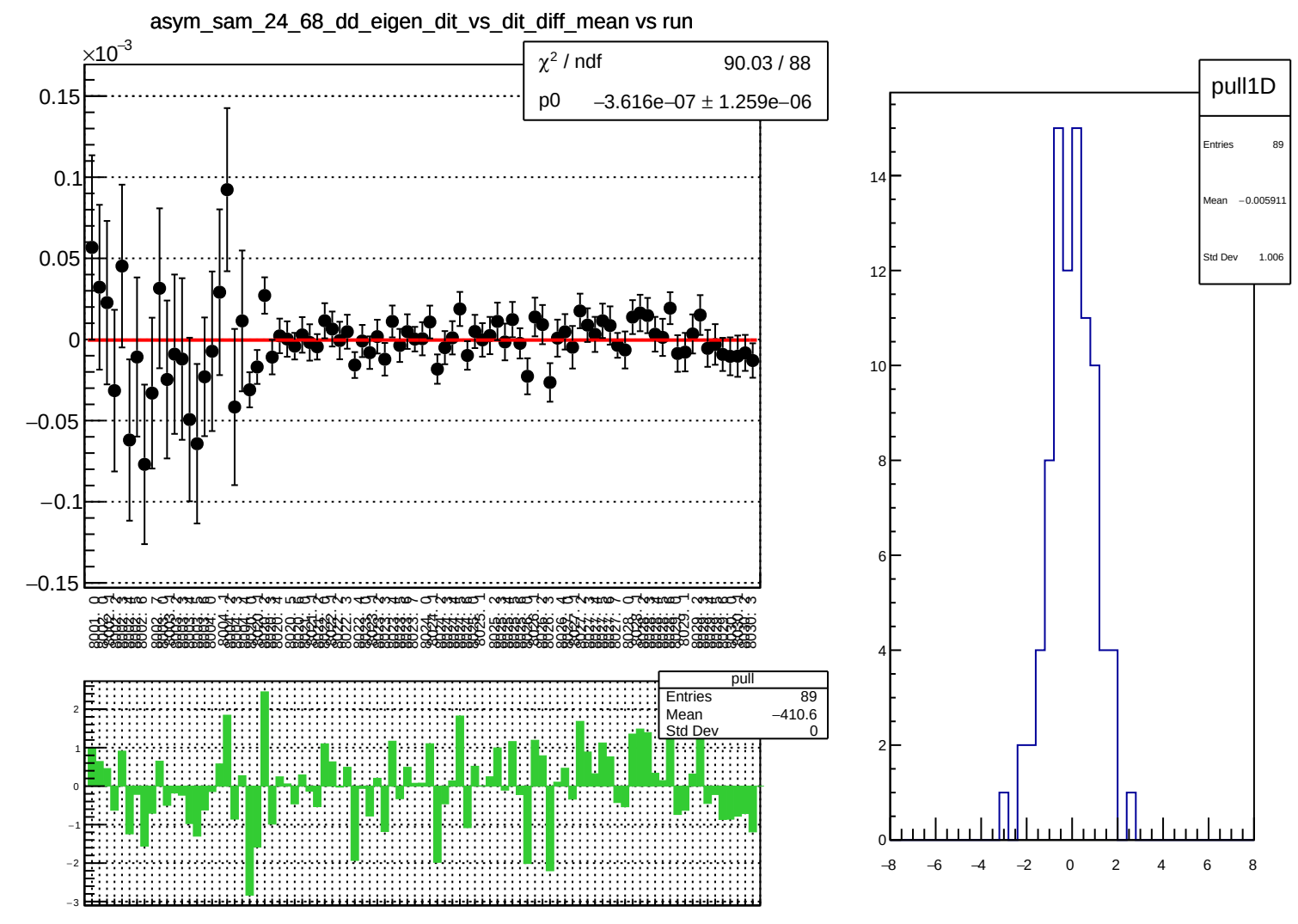

asym_sam_24_68_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.143e+06 / 88
p0 9.806e−11 ± 1.275e−13
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

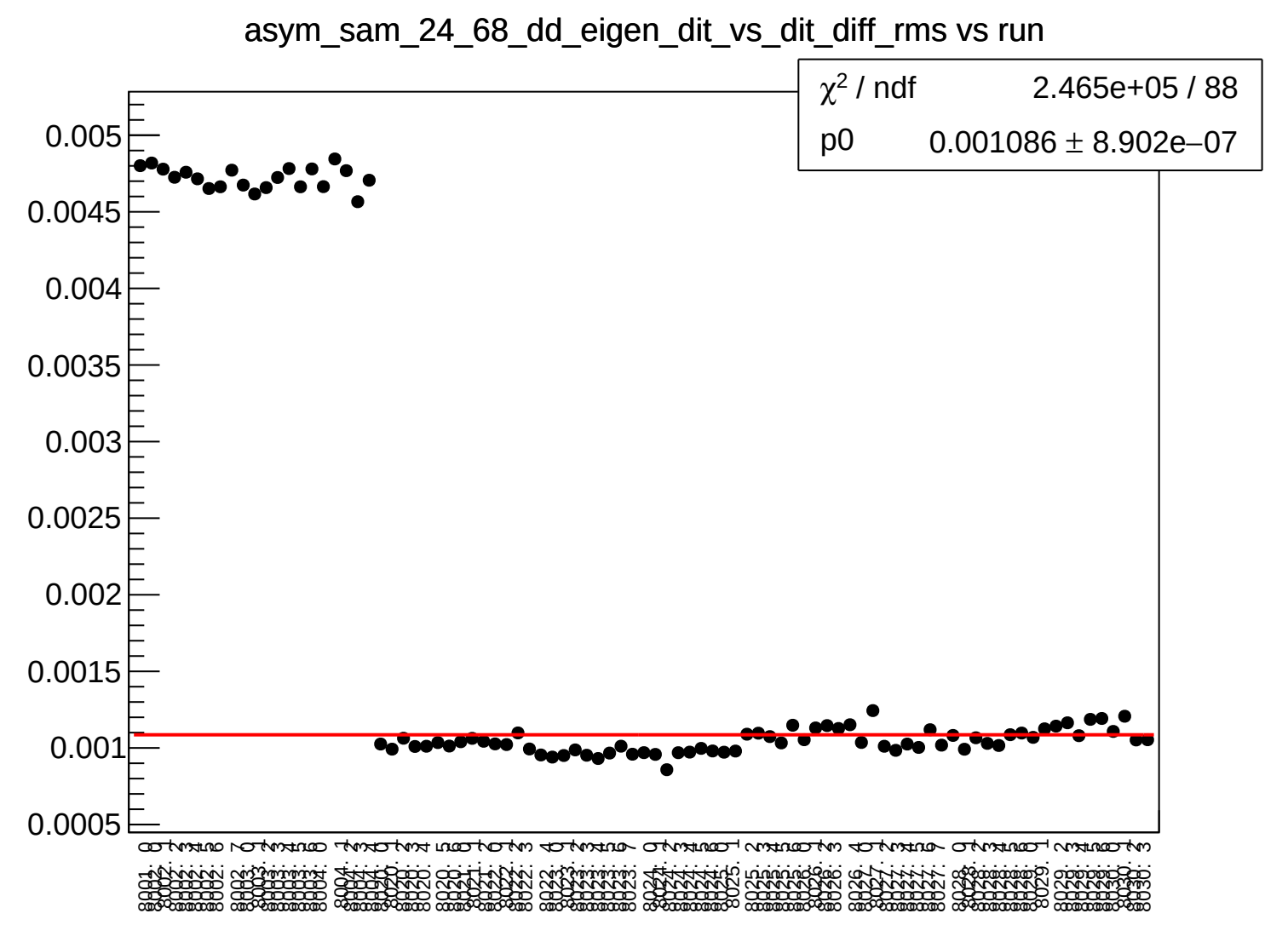

asym_sam_24_68_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 113.9 / 88
p0 −0.05805 ± 0.05556
pull
Entries 89
Mean −241
Std Dev 0
pull1D
Entries 89
Mean 0.004555
Std Dev 1.131

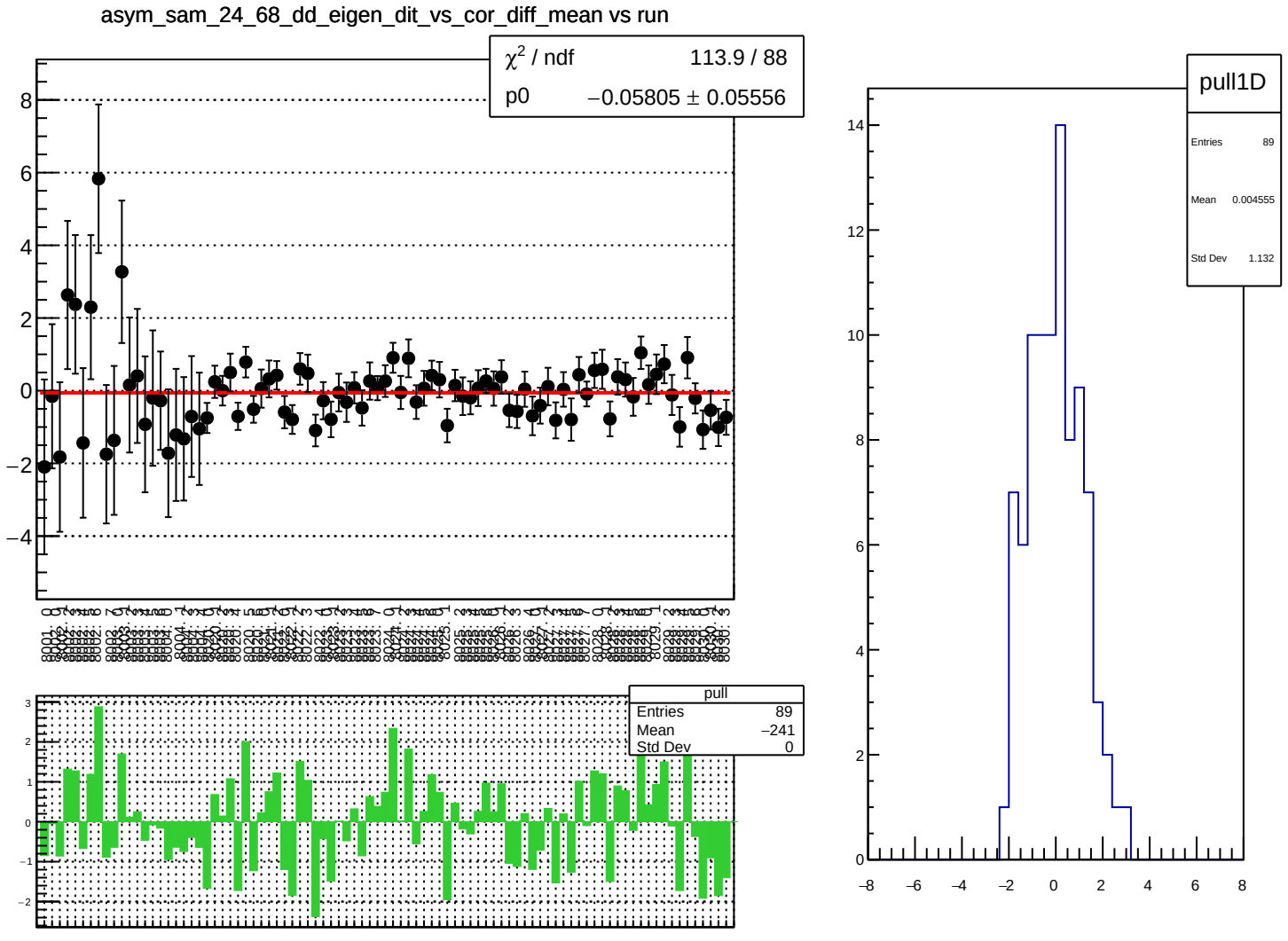

asym_sam_24_68_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.305e+05 / 88
p0 48.18 ± 0.03929
220
200
180
160
140
120
100
80
60
40
20

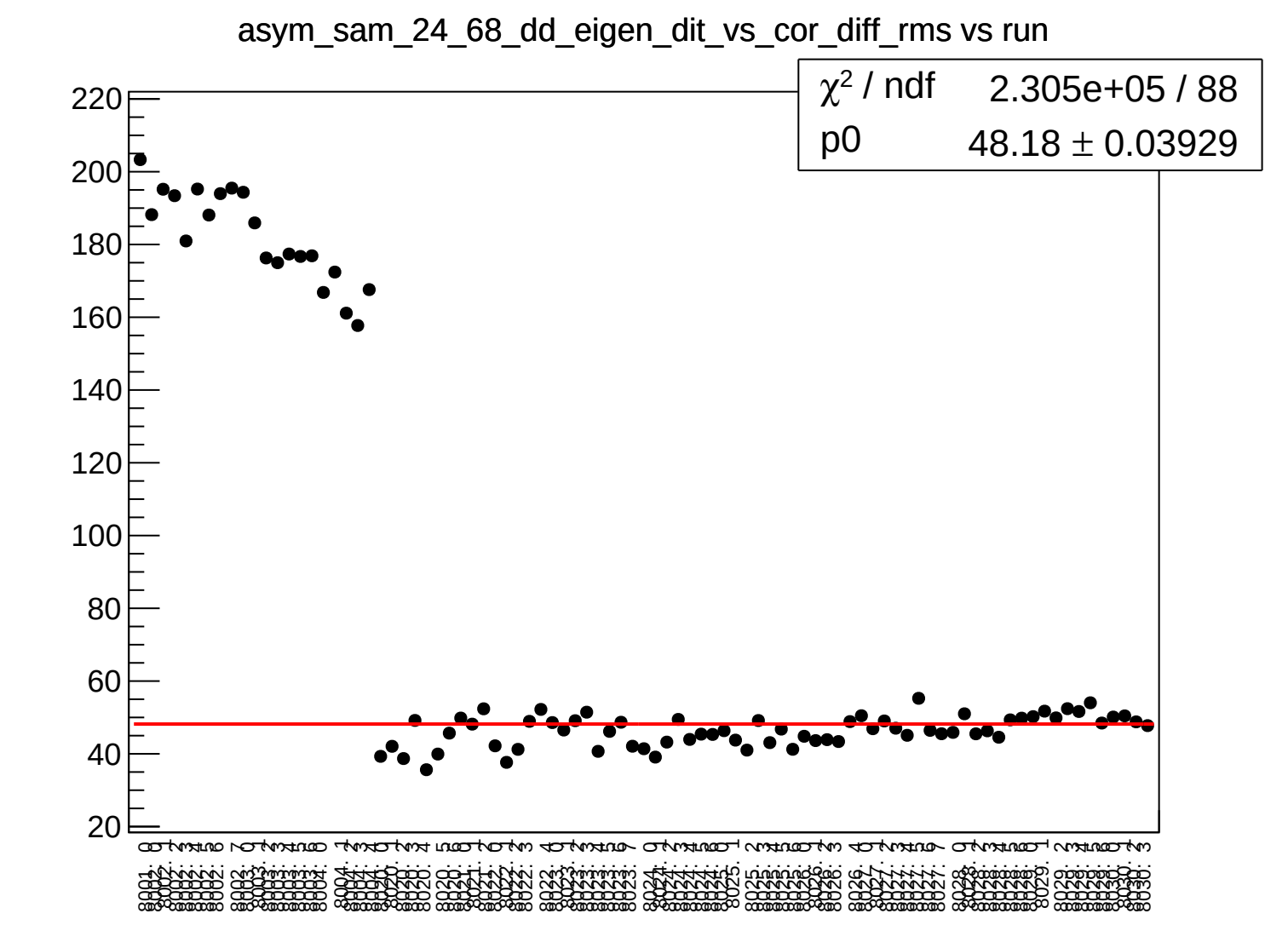

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 113.9 / 88
p0 −0.05805 ± 0.05556
pull
Entries 89
Mean −241
Std Dev 0
pull1D
Entries 89
Mean 0.004555
Std Dev 1.131

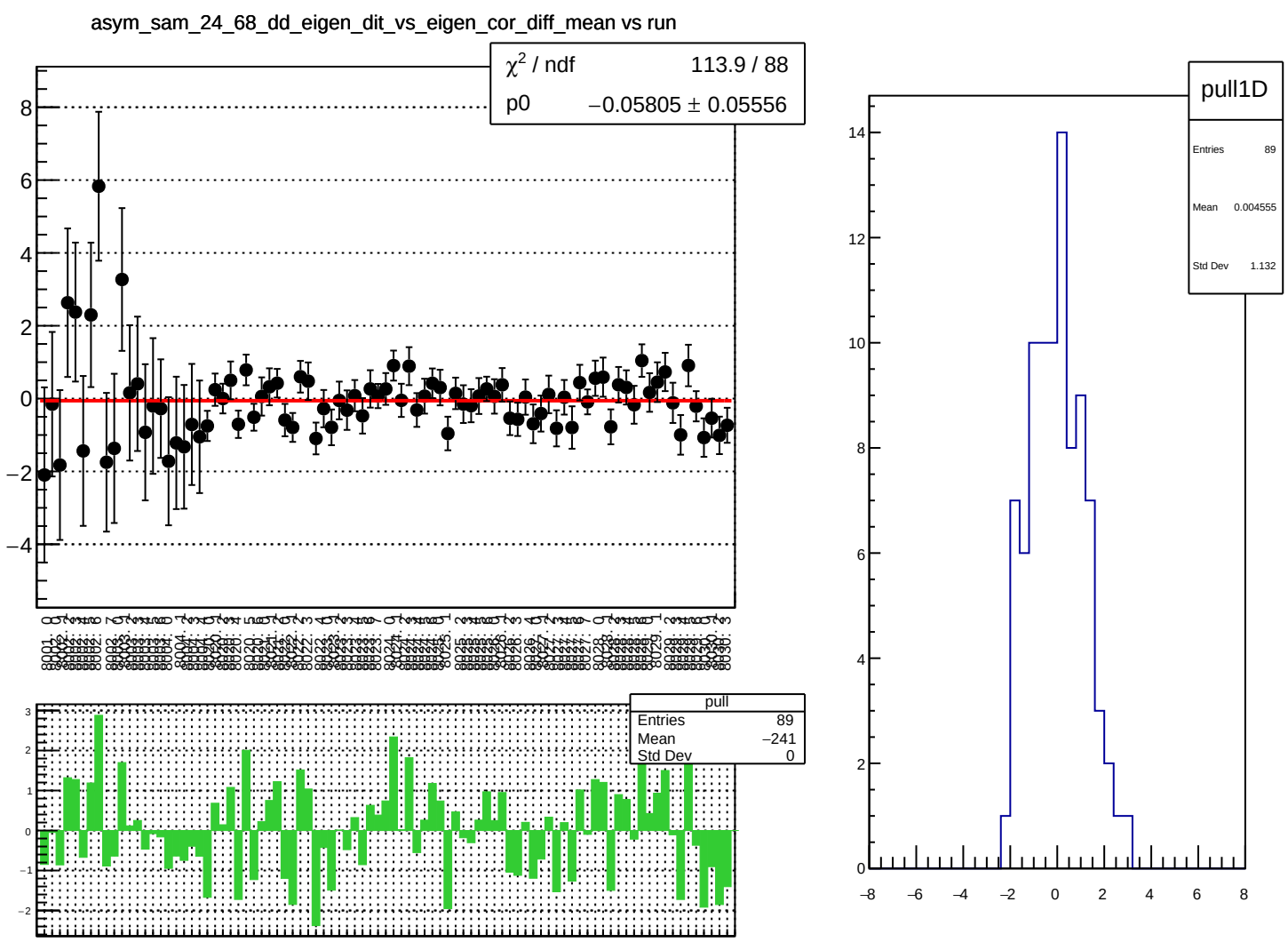

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.305e+05 / 88
p0 48.18 ± 0.03929
220
200
180
160
140
120
100
80
60
40
20

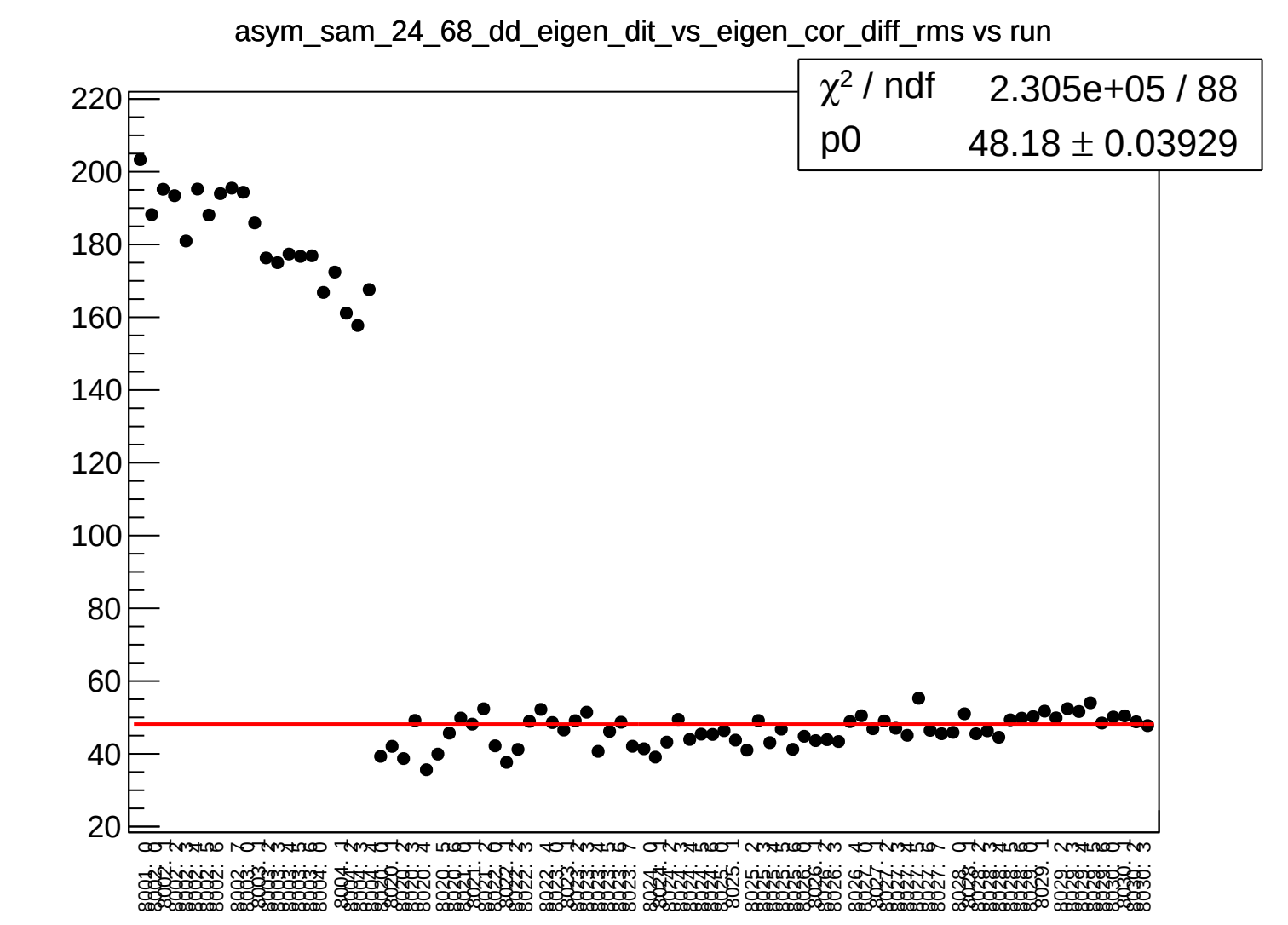

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.03 / 88
p0 −3.616e−07 ± 1.259e−06
pull
Entries 89
Mean −410.6
Std Dev 0
pull1D
Entries 89
Mean −0.005911
Std Dev 1.006

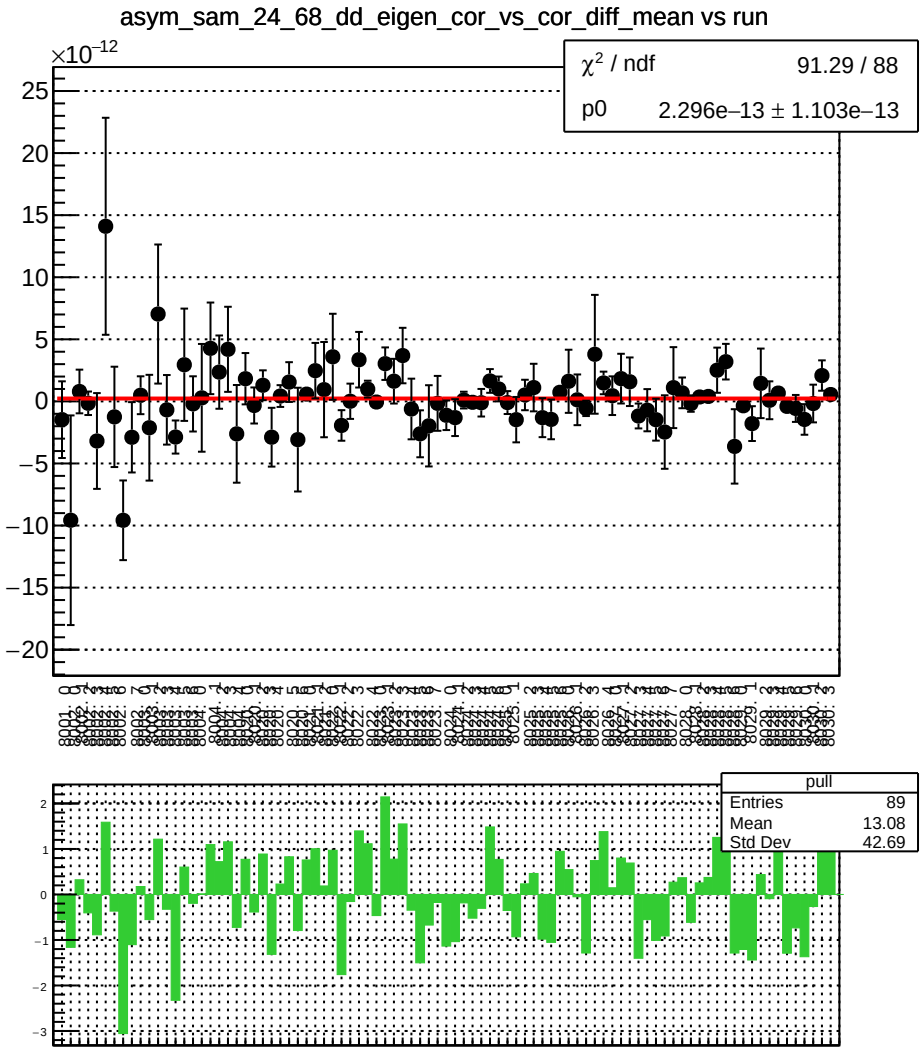

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.465e+05 / 88
p0 0.001086 ± 8.902e−07
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005

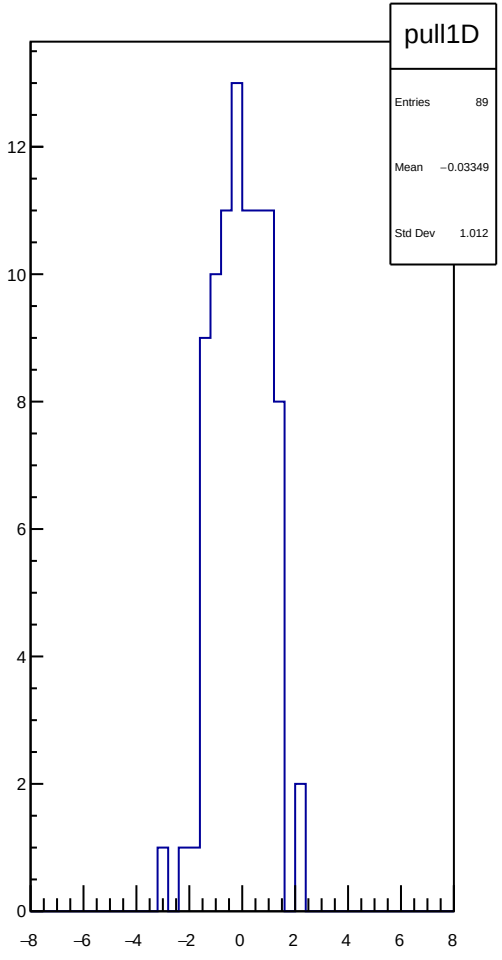

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 113.9 / 88
p0 −0.05805 ± 0.05556
pull
Entries 89
Mean −241
Std Dev 0
pull1D
Entries 89
Mean 0.004555
Std Dev 1.132

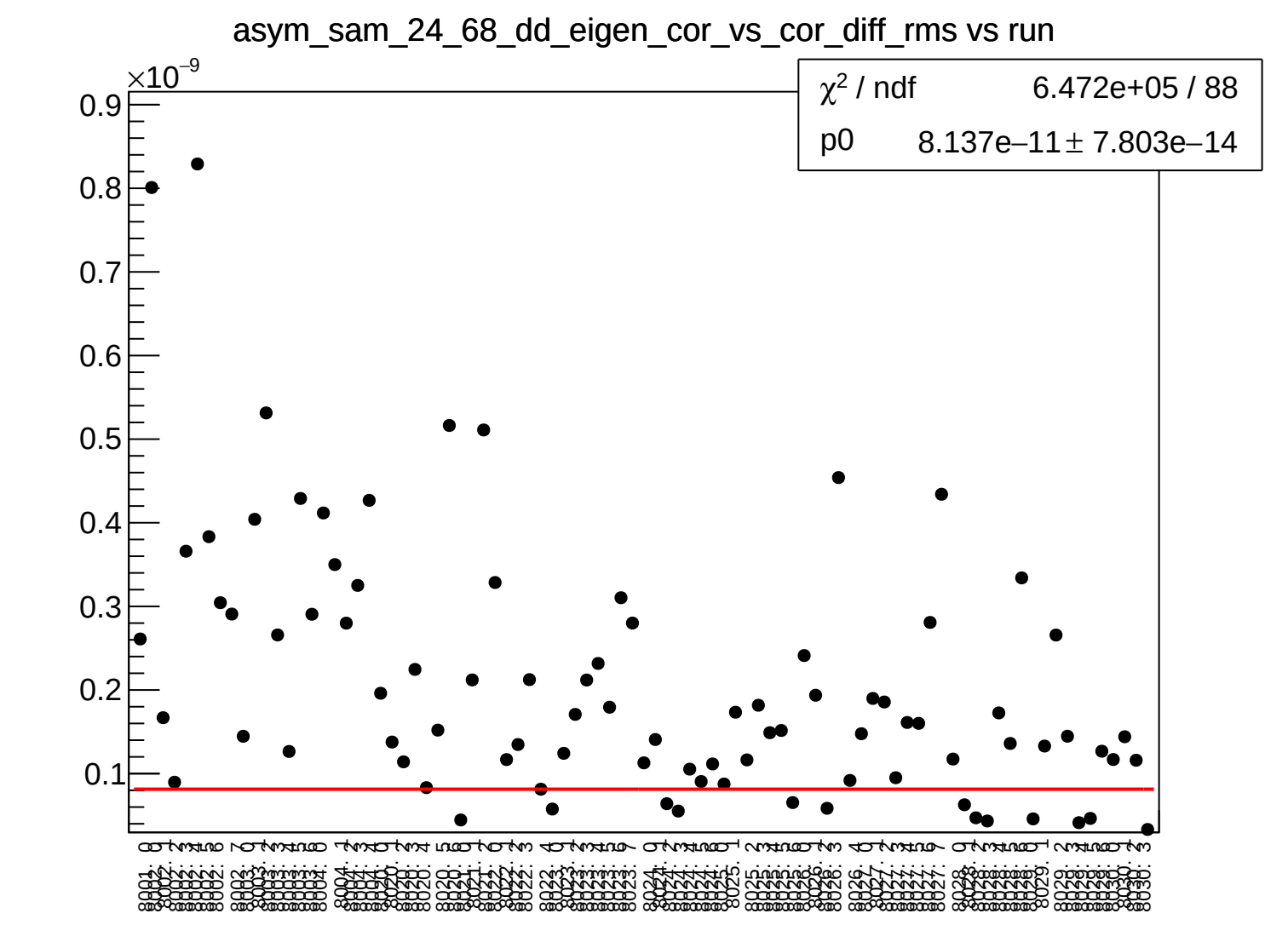

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.305e+05 / 88
p0 48.18 ± 0.03929
220
200
180
160
140
120
100
80
60
40
20

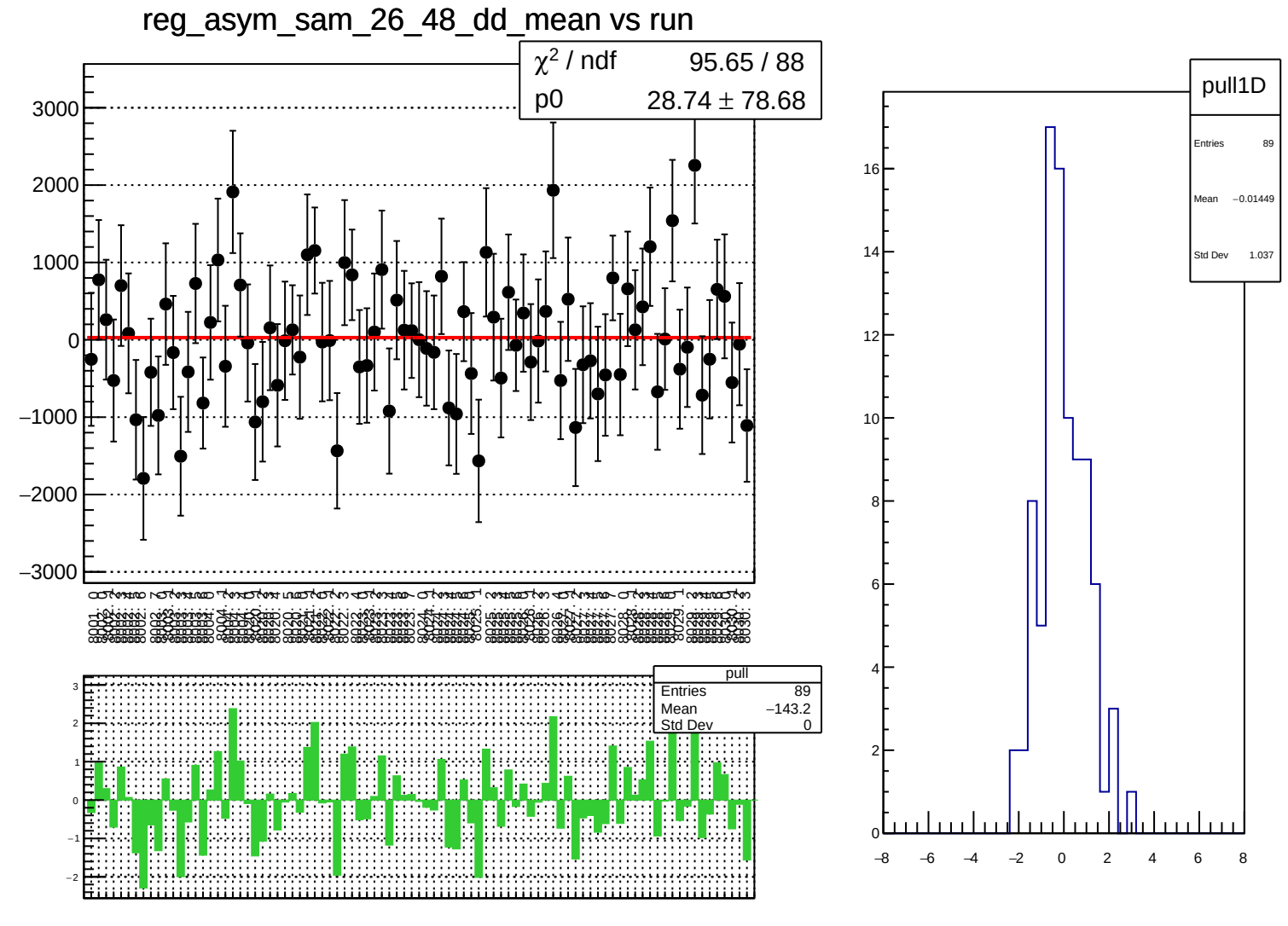

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 113.9 / 88
p0 −0.05805 ± 0.05556
pull
Entries 89
Mean −241
Std Dev 0
pull1D
Entries 89
Mean 0.004555
Std Dev 1.132

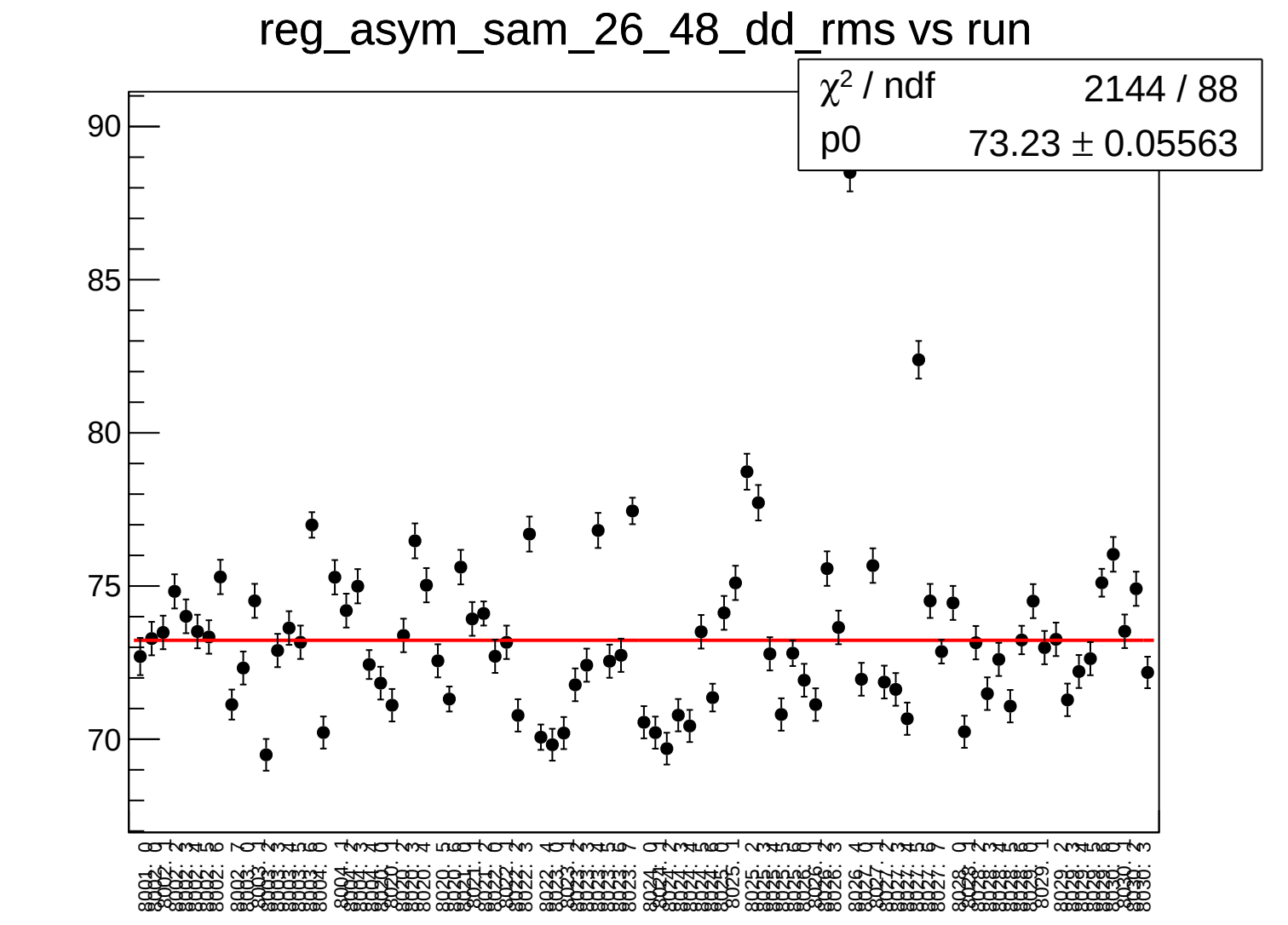

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.305e+05 / 88
p0 48.18 ± 0.03929
220
200
180
160
140
120
100
80
60
40
20

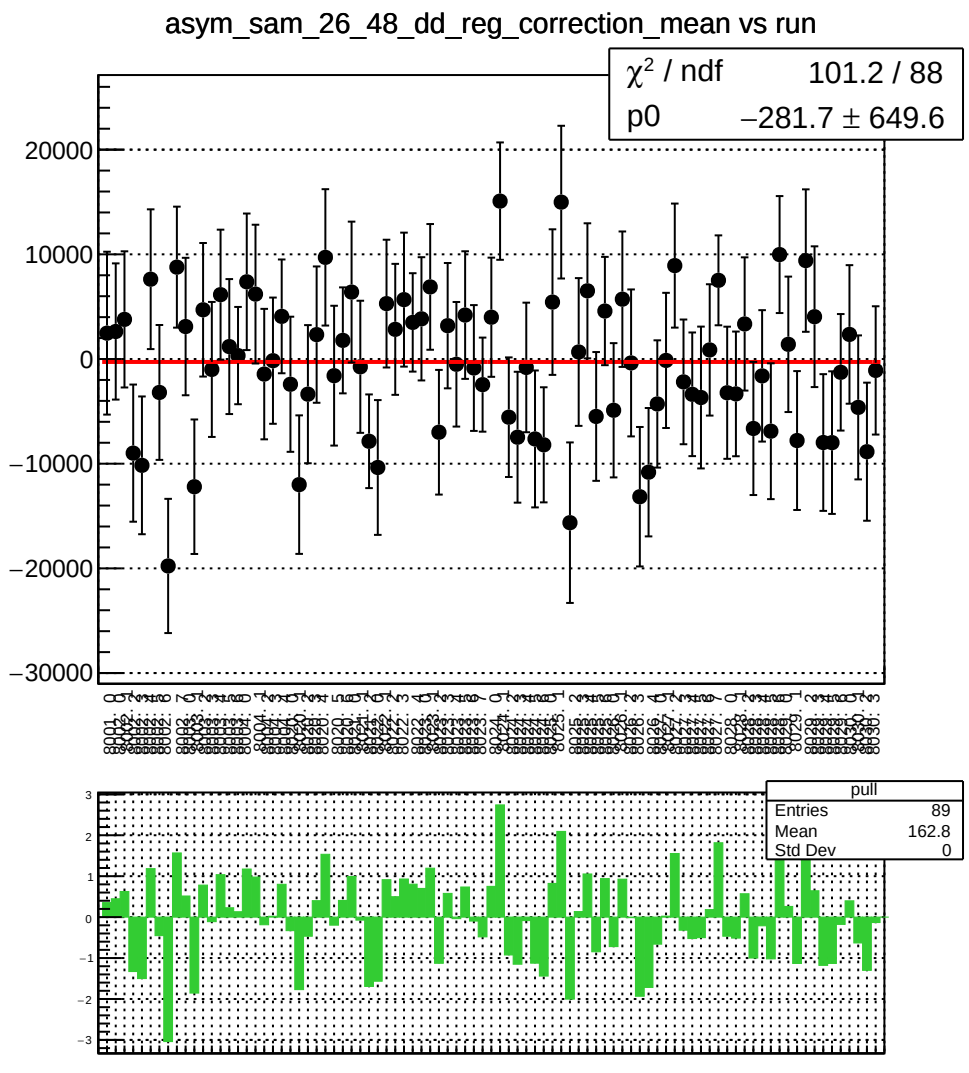

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.29 / 88
p0 2.296e−13 ± 1.103e−13
pull
Entries 89
Mean 13.08
Std Dev 42.69

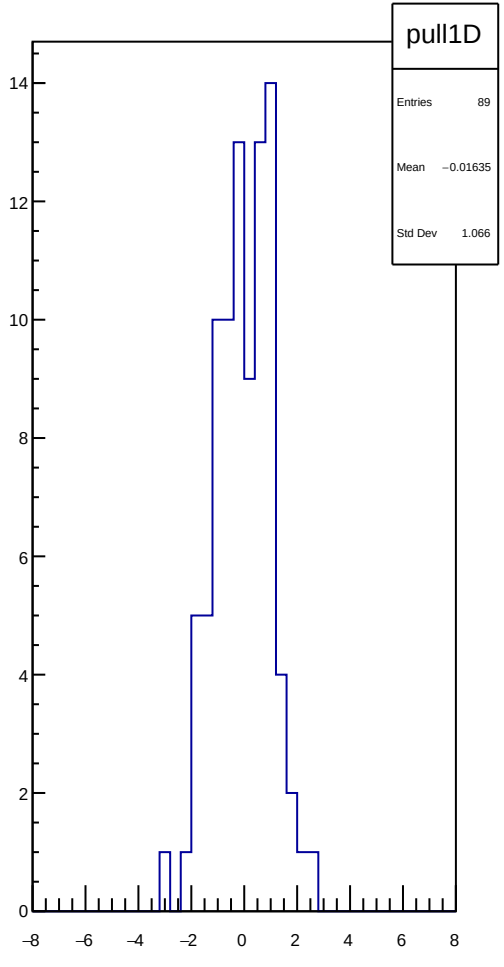

pull1D
Entries 89
Mean −0.03349
Std Dev 1.012

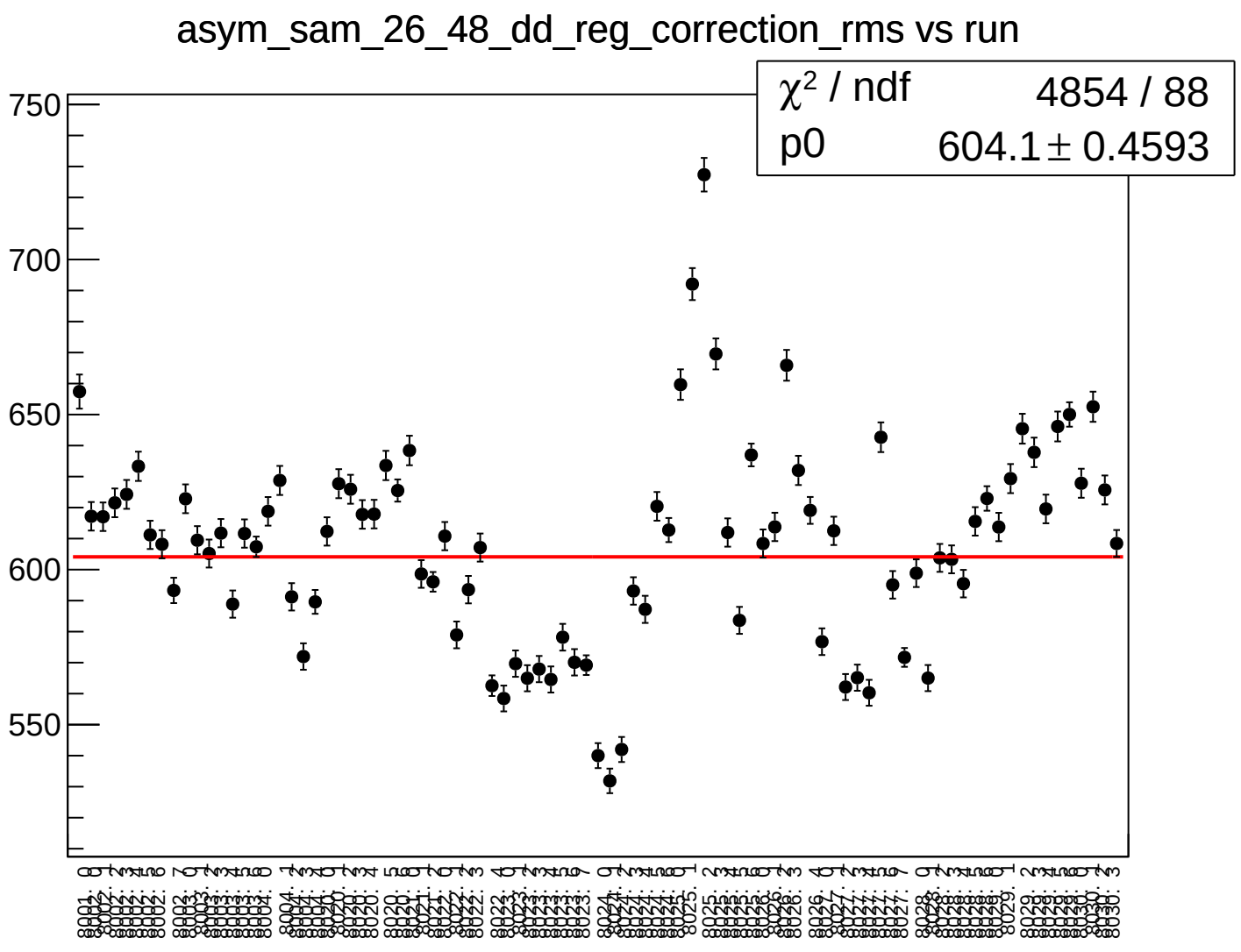

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.472e+05 / 88
p0 8.137e−11 ± 7.803e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

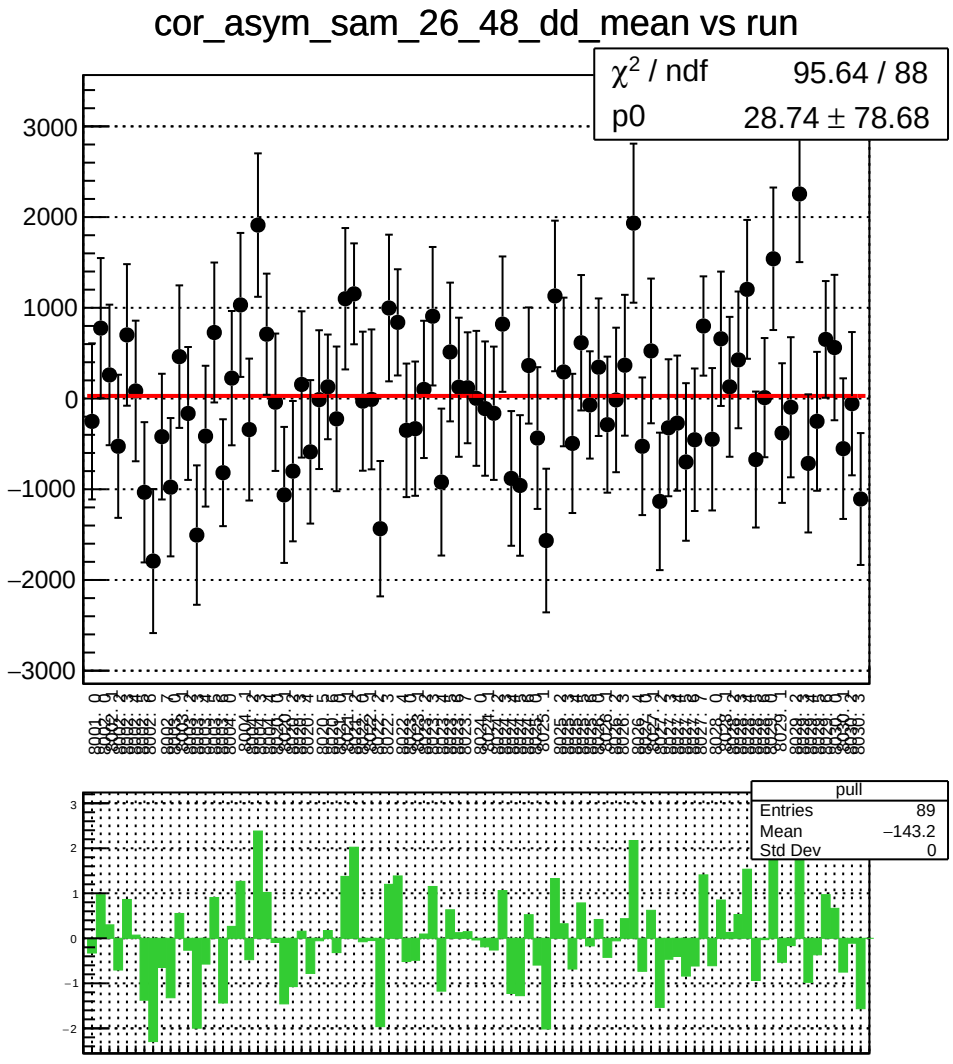

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 95.65 / 88
p0 28.74 ± 78.68
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean −143.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.01449
Std Dev 1.037
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

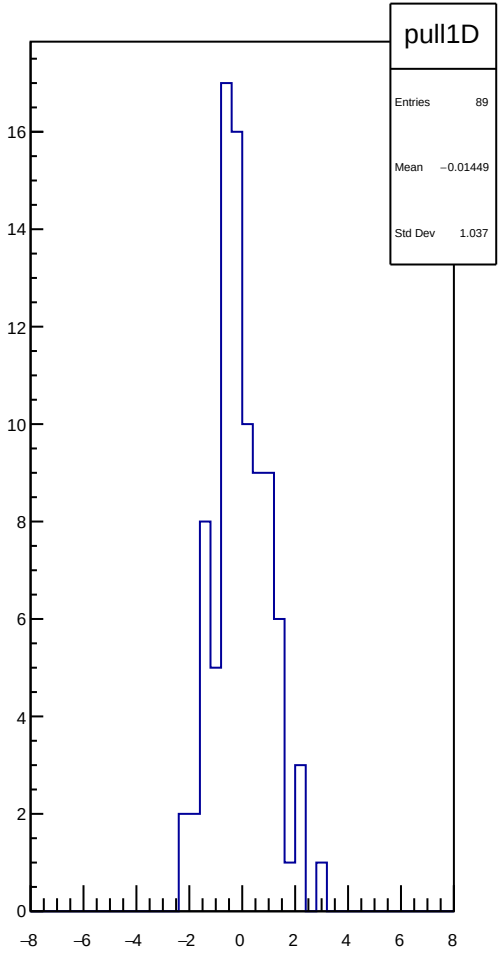

reg_asym_sam_26_48_dd_rms vs run
χ^2 / ndf 2144 / 88
p0 73.23 ± 0.05563
90
85
80
75
70

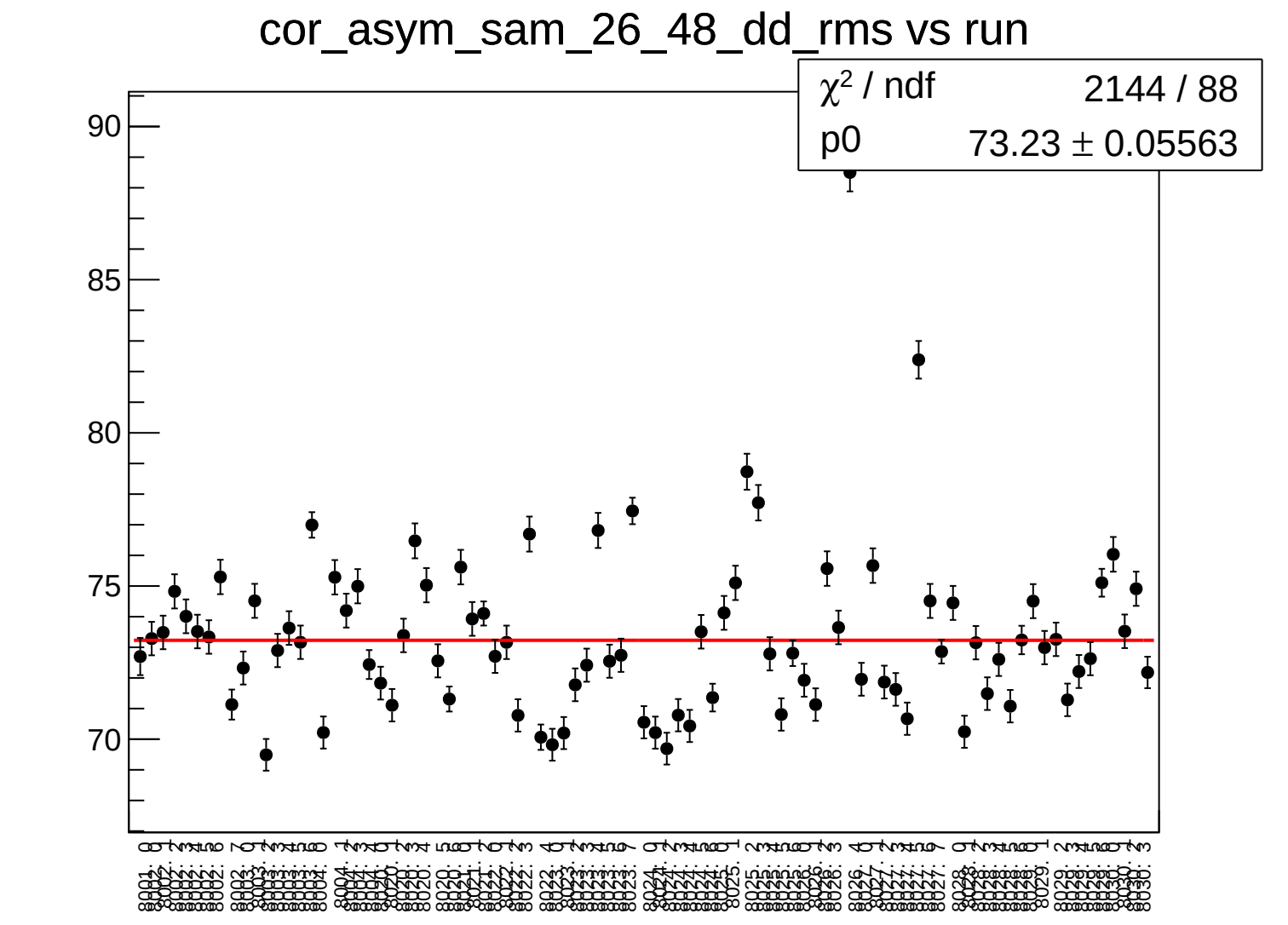

asym_sam_26_48_dd_reg_correction_mean vs run
χ² / ndf 101.2 / 88
p0 −281.7 ± 649.6
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 162.8
Std Dev 0
3
2
1
0
−1
−2
−3

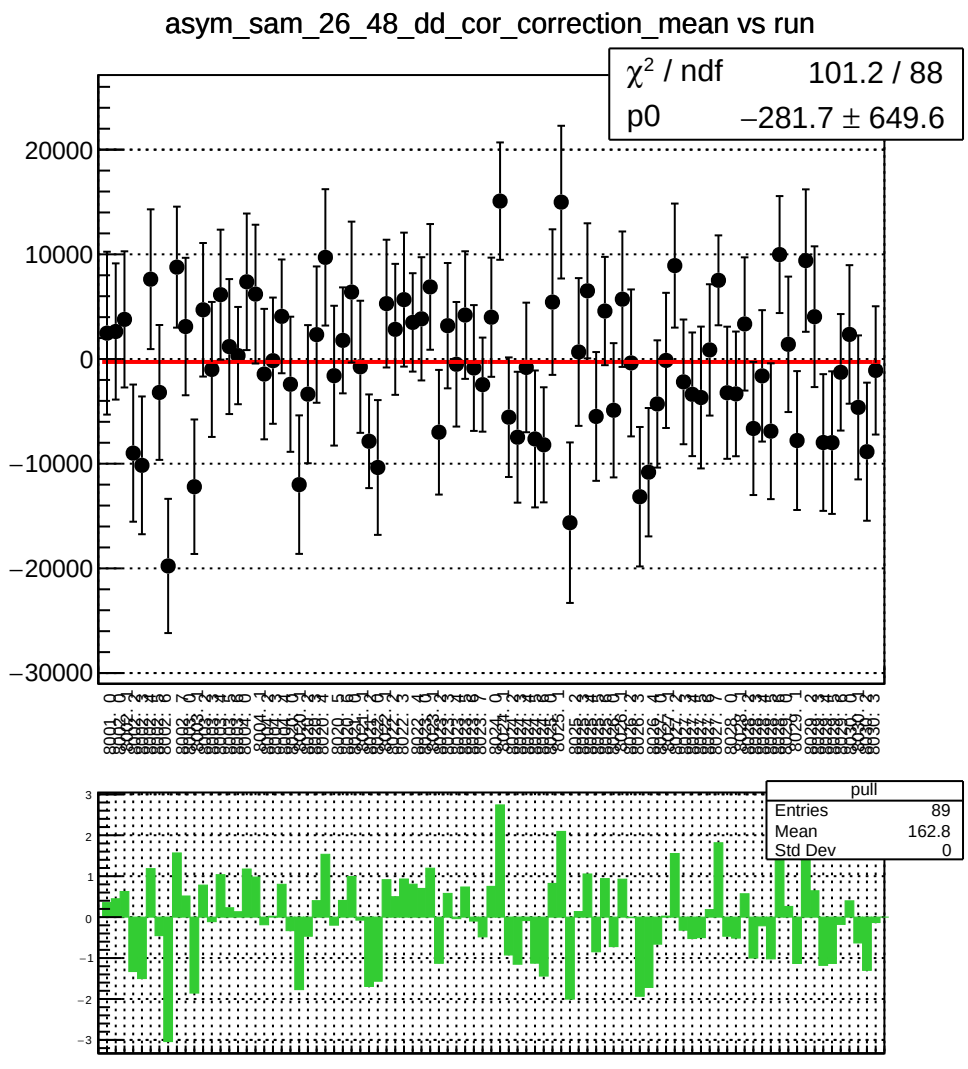

pull1D
Entries 89
Mean −0.01635
Std Dev 1.066
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

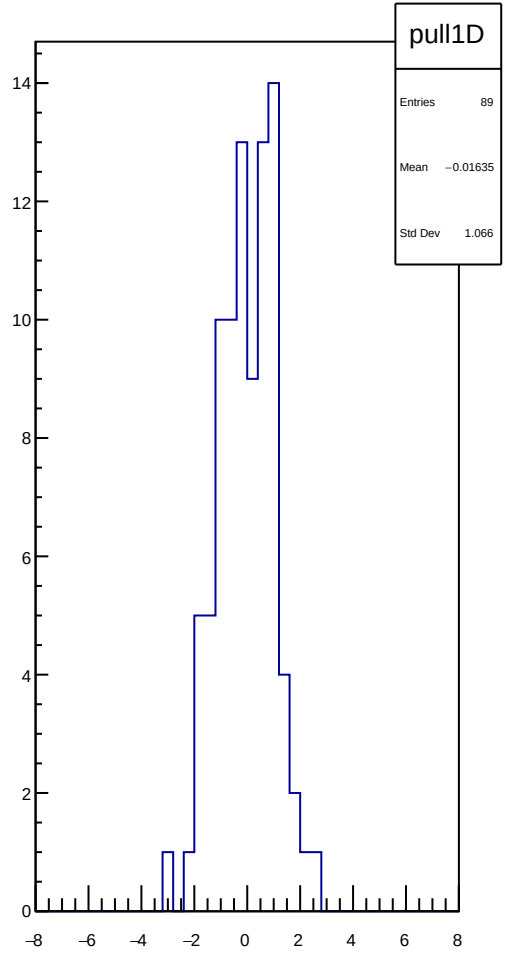

asym_sam_26_48_dd_reg_correction_rms vs run
χ² / ndf 4854 / 88
p0 604.1 ± 0.4593
750
700
650
600
550

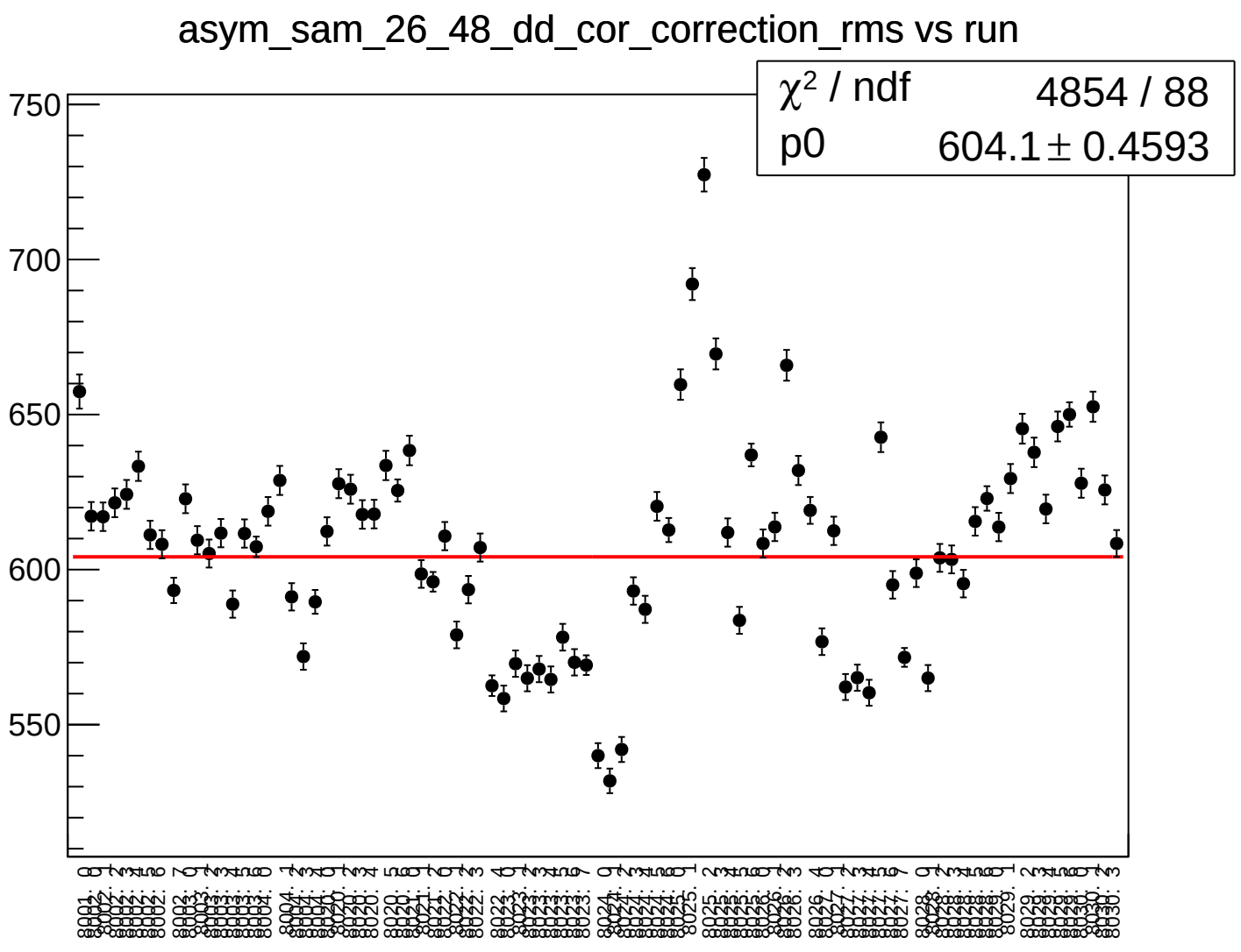

cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 95.64 / 88
p0 28.74 ± 78.68
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean −143.2
Std Dev 0
3
2
1
0
−1
−2

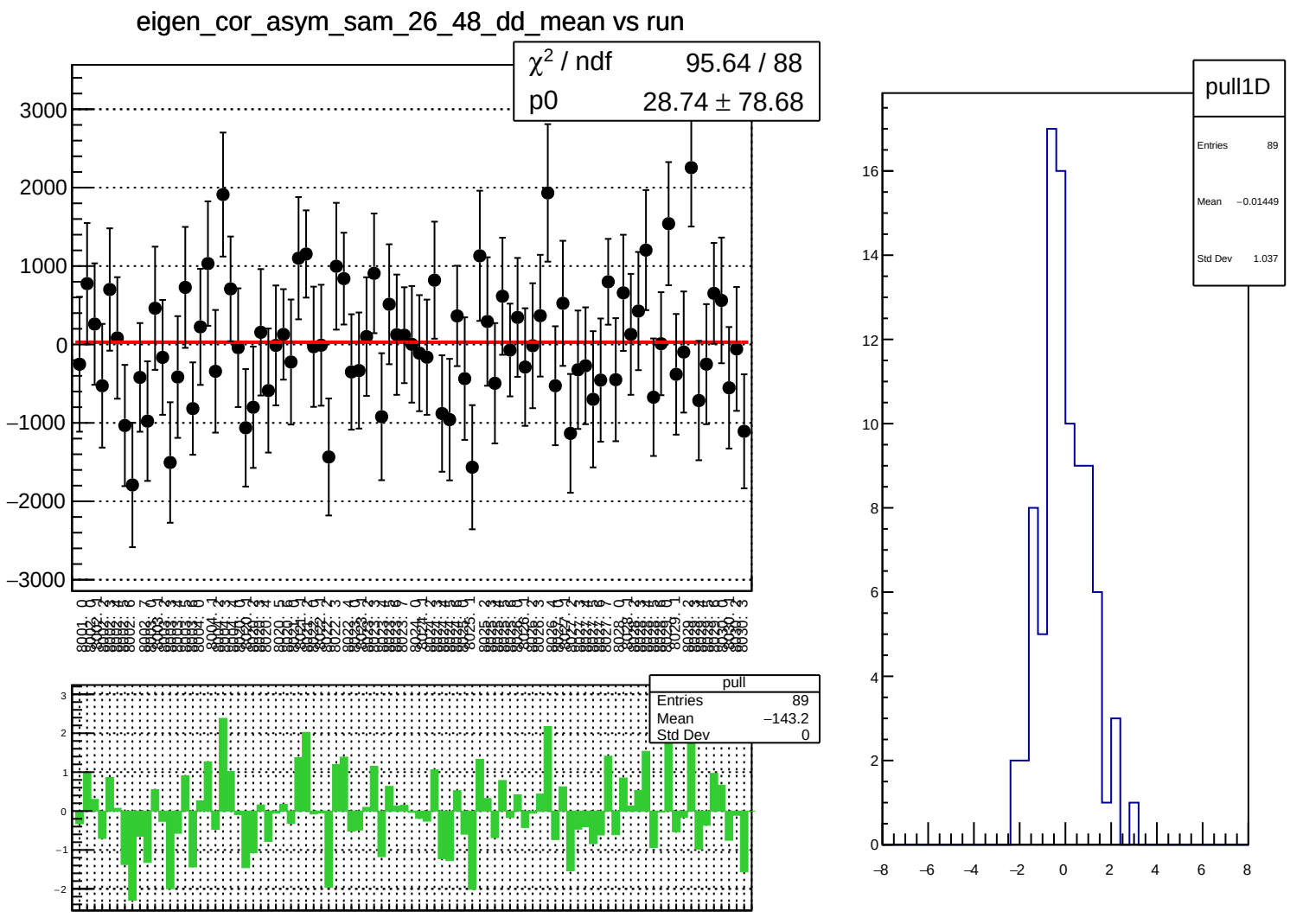

pull1D
Entries 89
Mean −0.01449
Std Dev 1.037
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

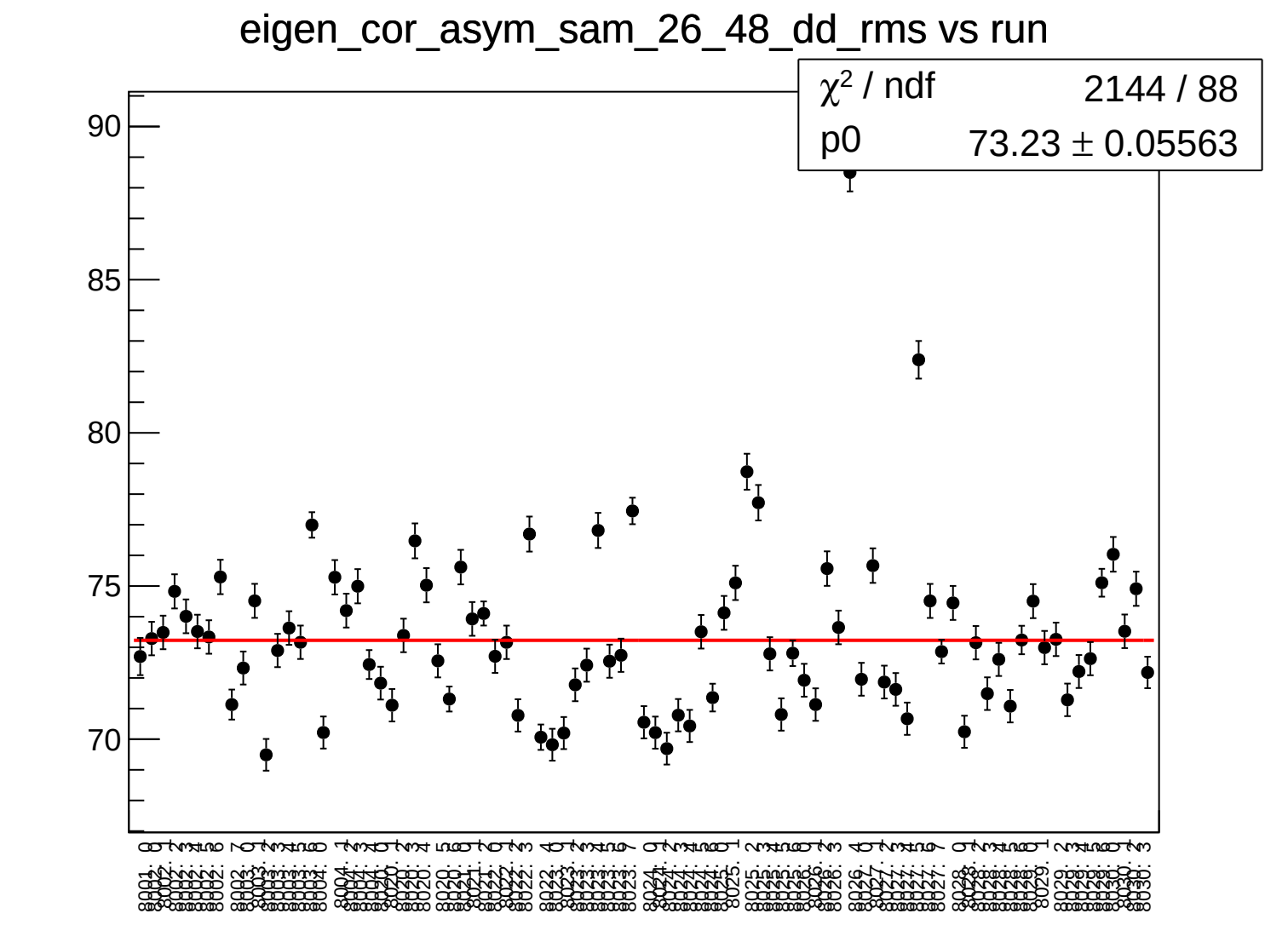

cor_asym_sam_26_48_dd_rms vs run
χ^2 / ndf 2144 / 88
p0 73.23 ± 0.05563
90
85
80
75
70

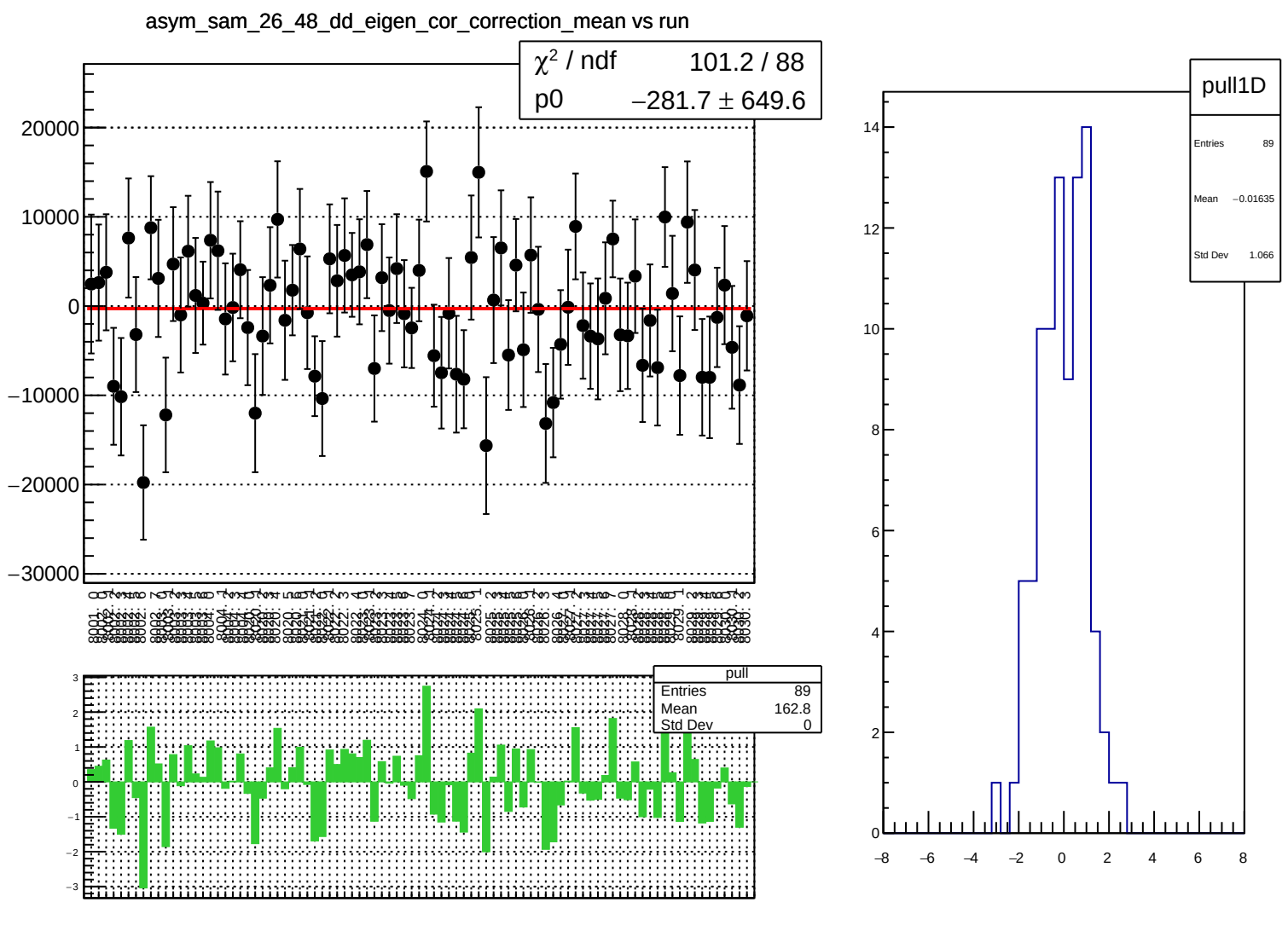

asym_sam_26_48_dd_cor_correction_mean vs run
χ² / ndf 101.2 / 88
p0 −281.7 ± 649.6
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 162.8
Std Dev 0
3
2
1
0
−1
−2
−3

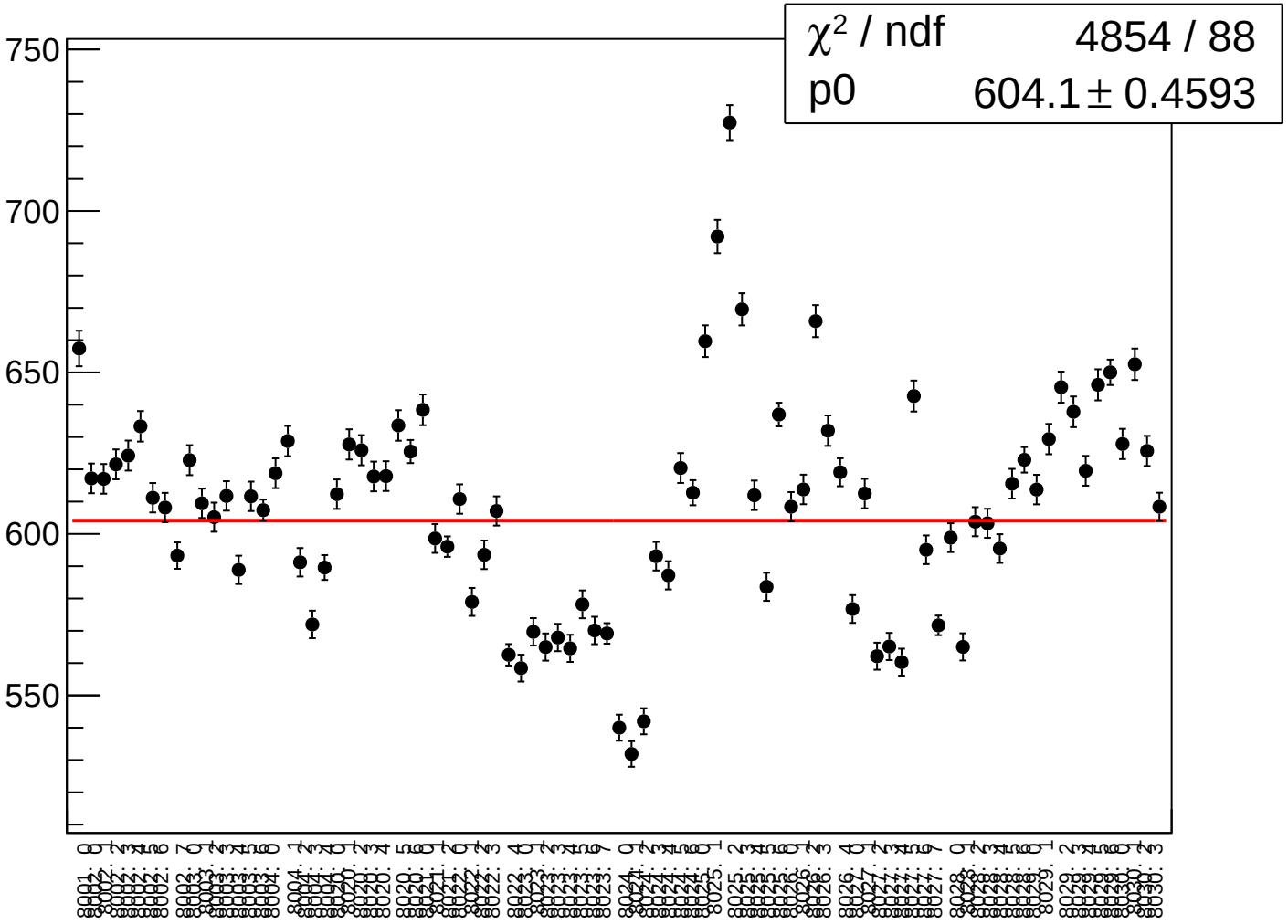

pull1D
Entries 89
Mean −0.01635
Std Dev 1.066
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

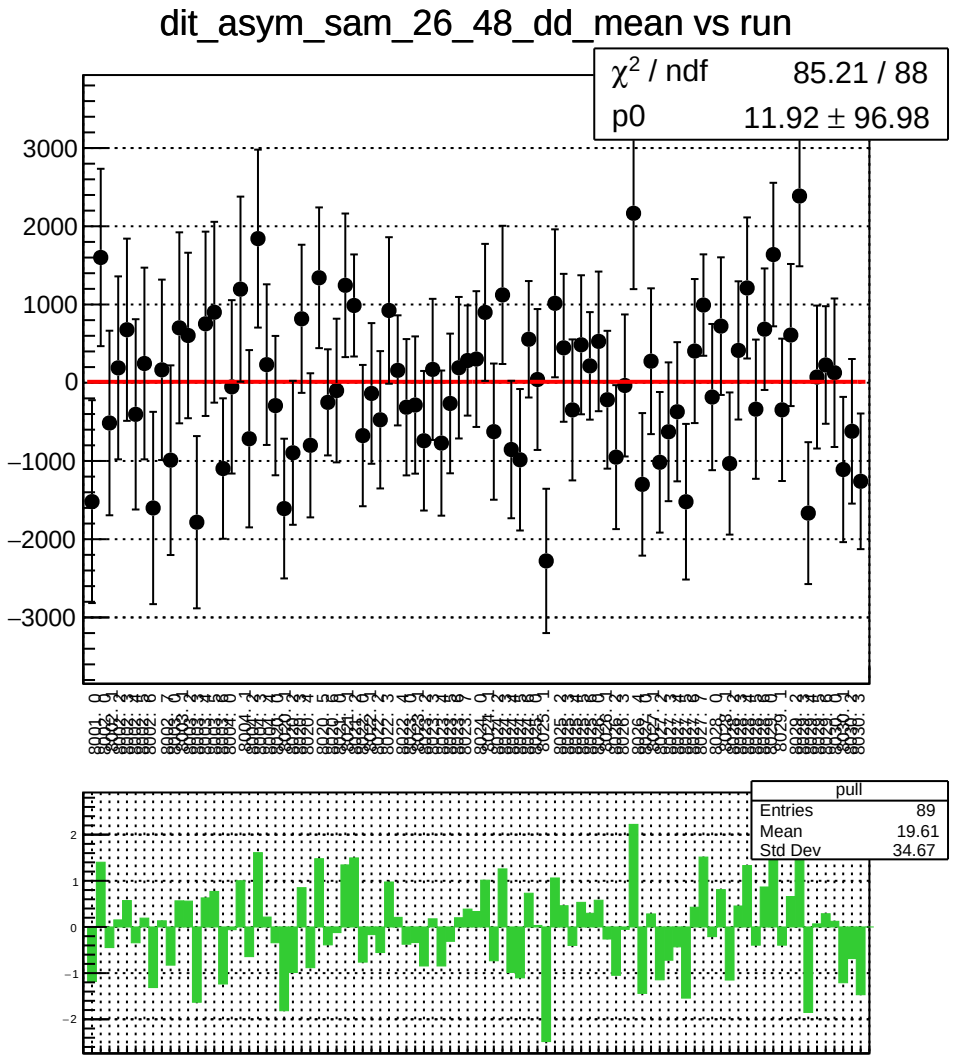

asym_sam_26_48_dd_cor_correction_rms vs run
χ² / ndf 4854 / 88
p0 604.1 ± 0.4593
750
700
650
600
550

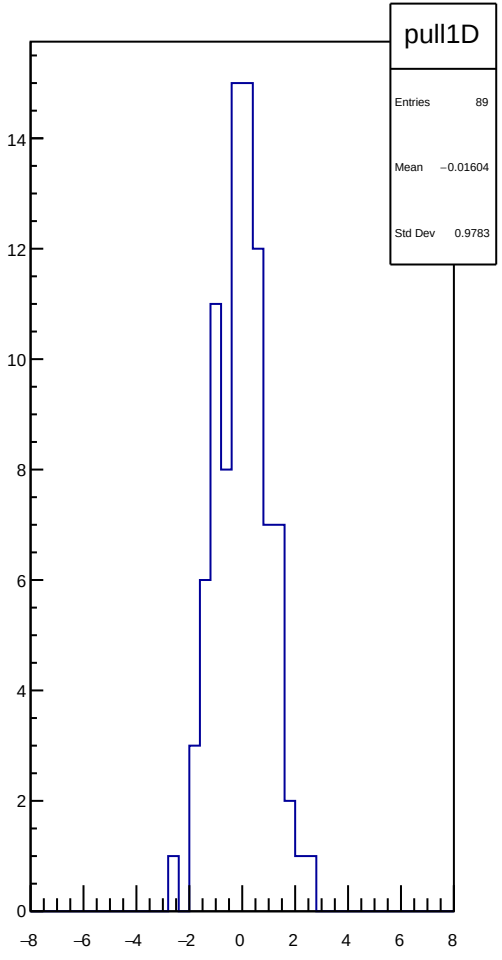

eigen_cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 95.64 / 88
p0 28.74 ± 78.68
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean −143.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.01449
Std Dev 1.037
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

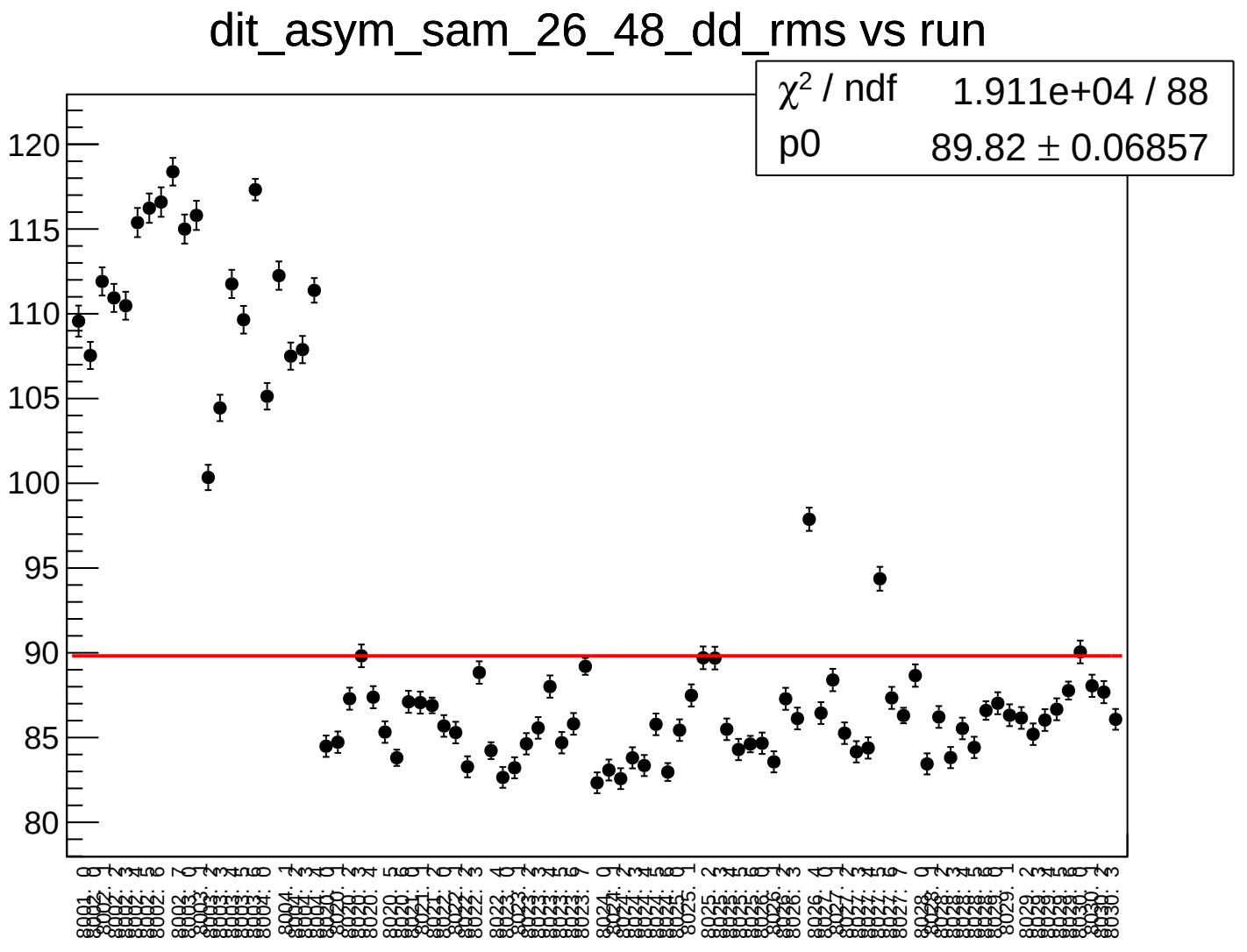

eigen_cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 2144 / 88
p0 73.23 ± 0.05563
90
85
80
75
70

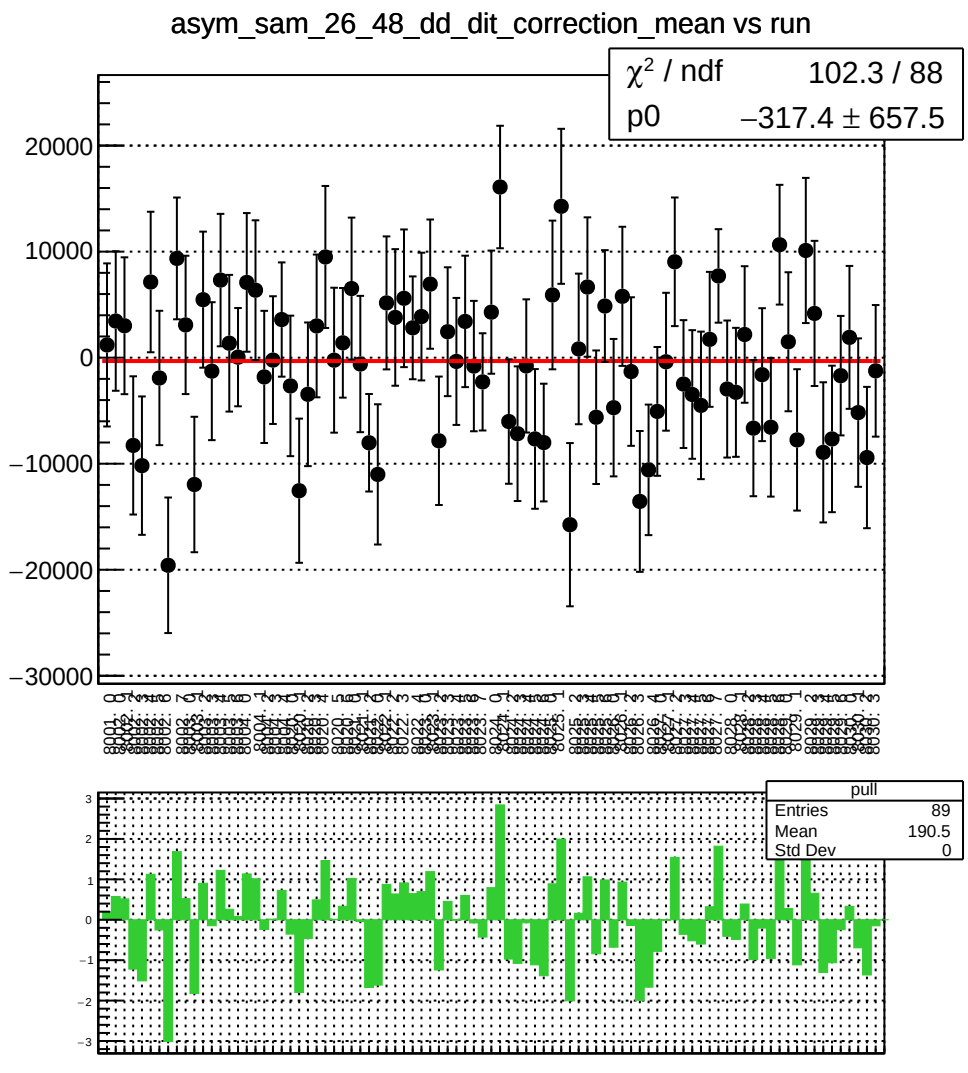

asym_sam_26_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 101.2 / 88
p0 −281.7 ± 649.6
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 162.8
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.01635
Std Dev 1.066
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

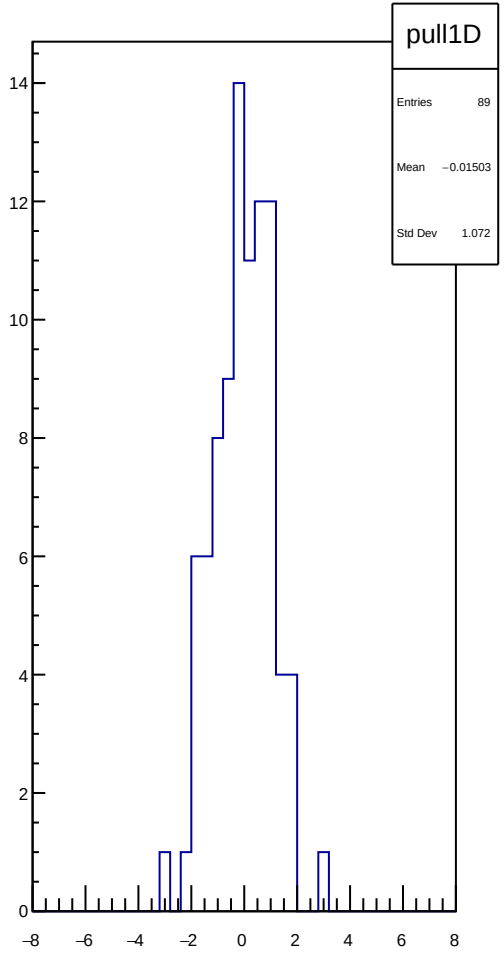

asym_sam_26_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 4854 / 88
p0 604.1 ± 0.4593
750
700
650
600
550

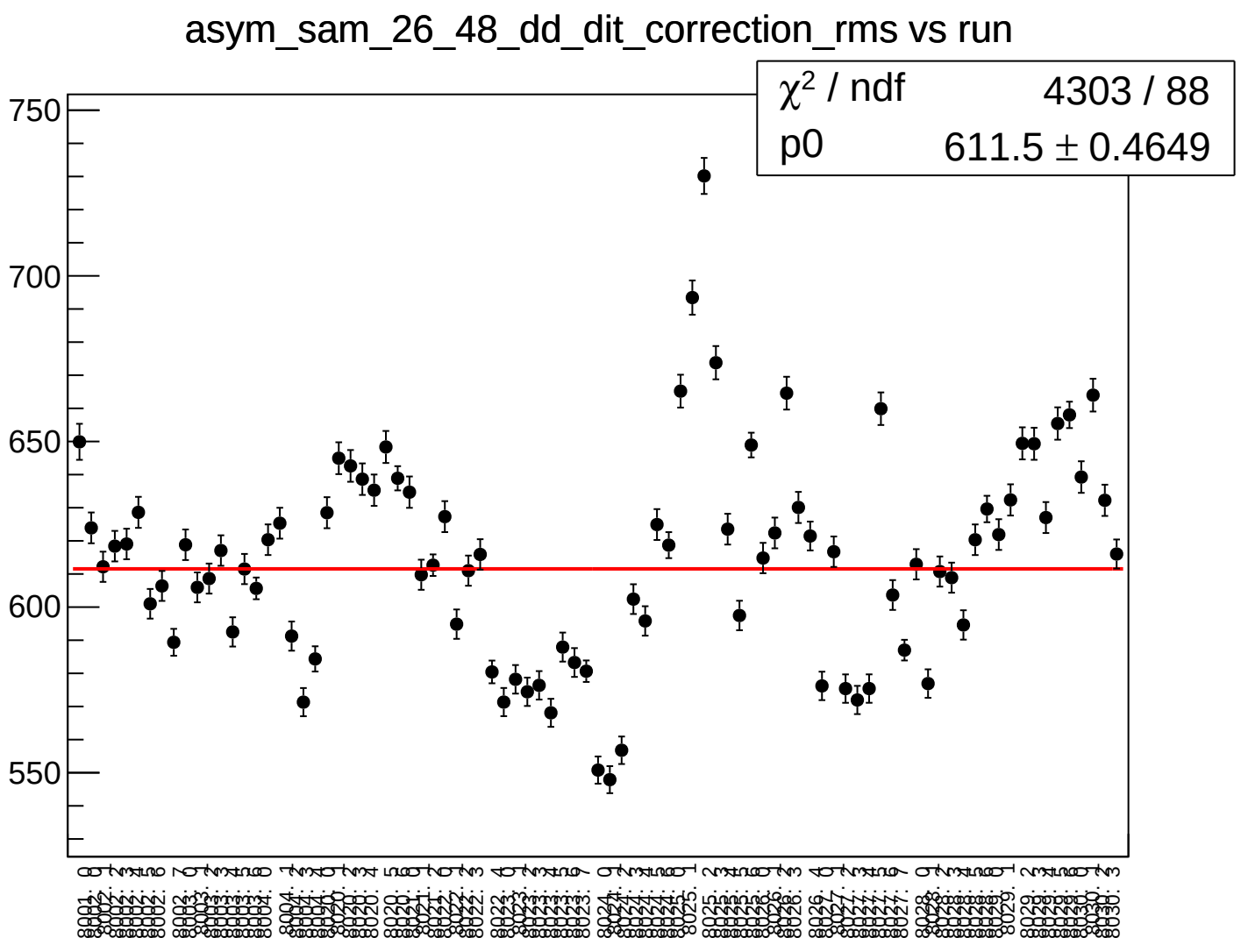

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 85.21 / 88
p0 11.92 ± 96.98
pull
Entries 89
Mean 19.61
Std Dev 34.67

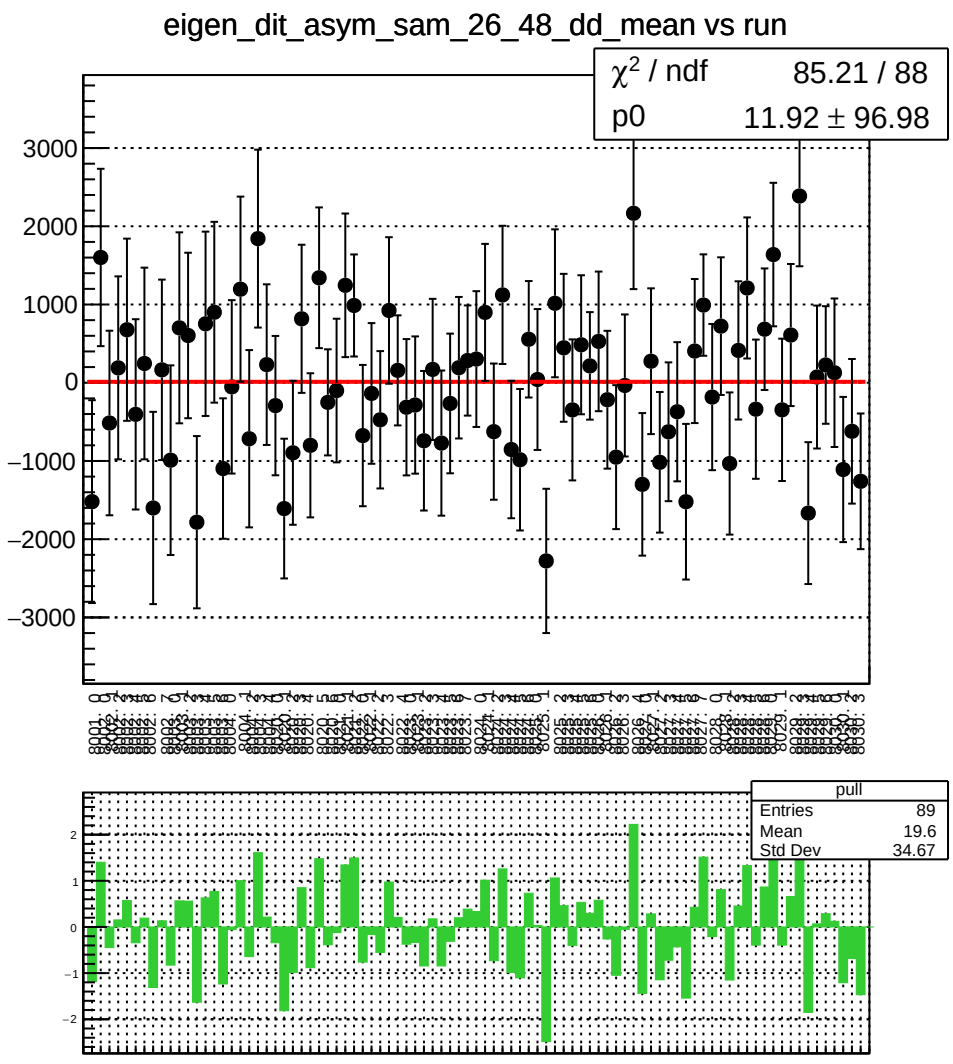

pull1D
Entries 89
Mean −0.01604
Std Dev 0.9783

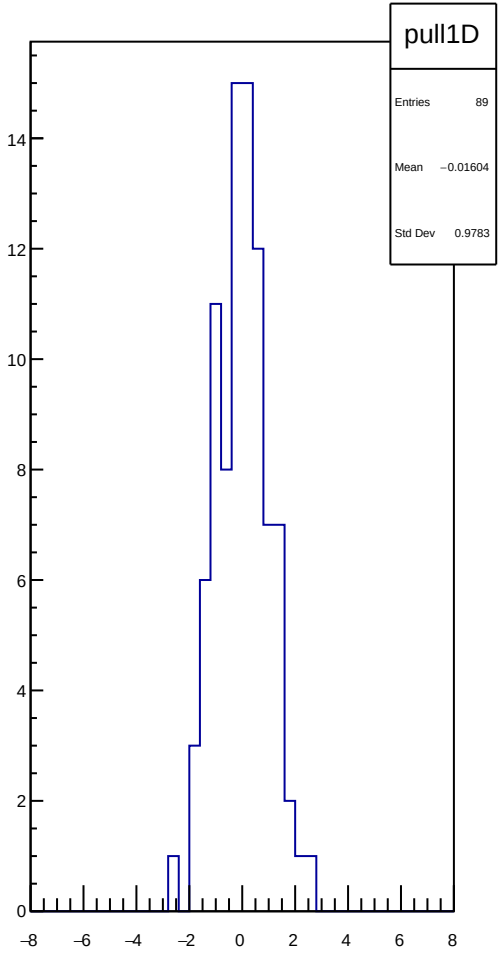

dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 1.911e+04 / 88
p0 89.82 ± 0.06857
120
115
110
105
100
95
90
85
80

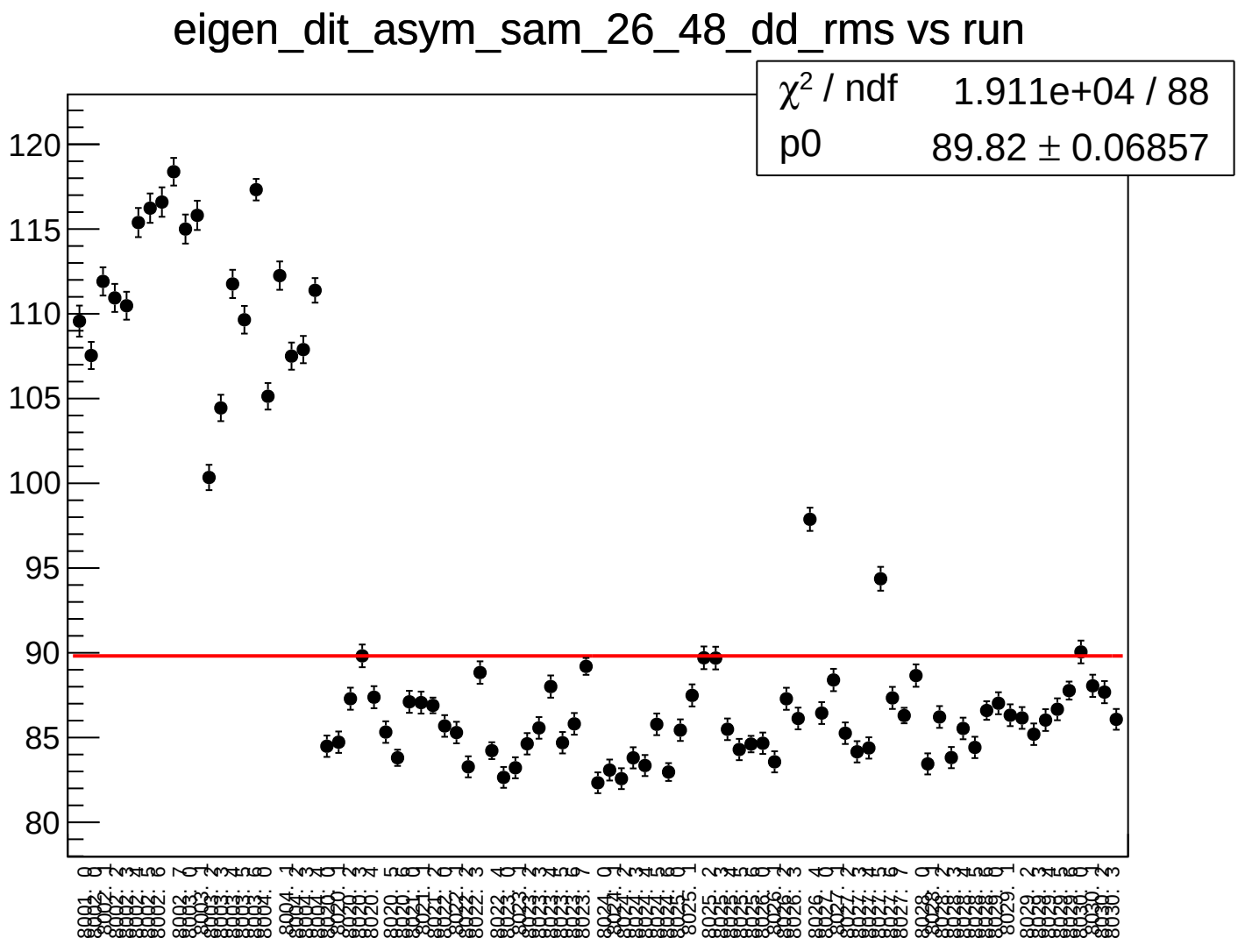

asym_sam_26_48_dd_dit_correction_mean vs run
χ² / ndf 102.3 / 88
p0 −317.4 ± 657.5
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 190.5
Std Dev 0
3
2
1
0
−1
−2
−3

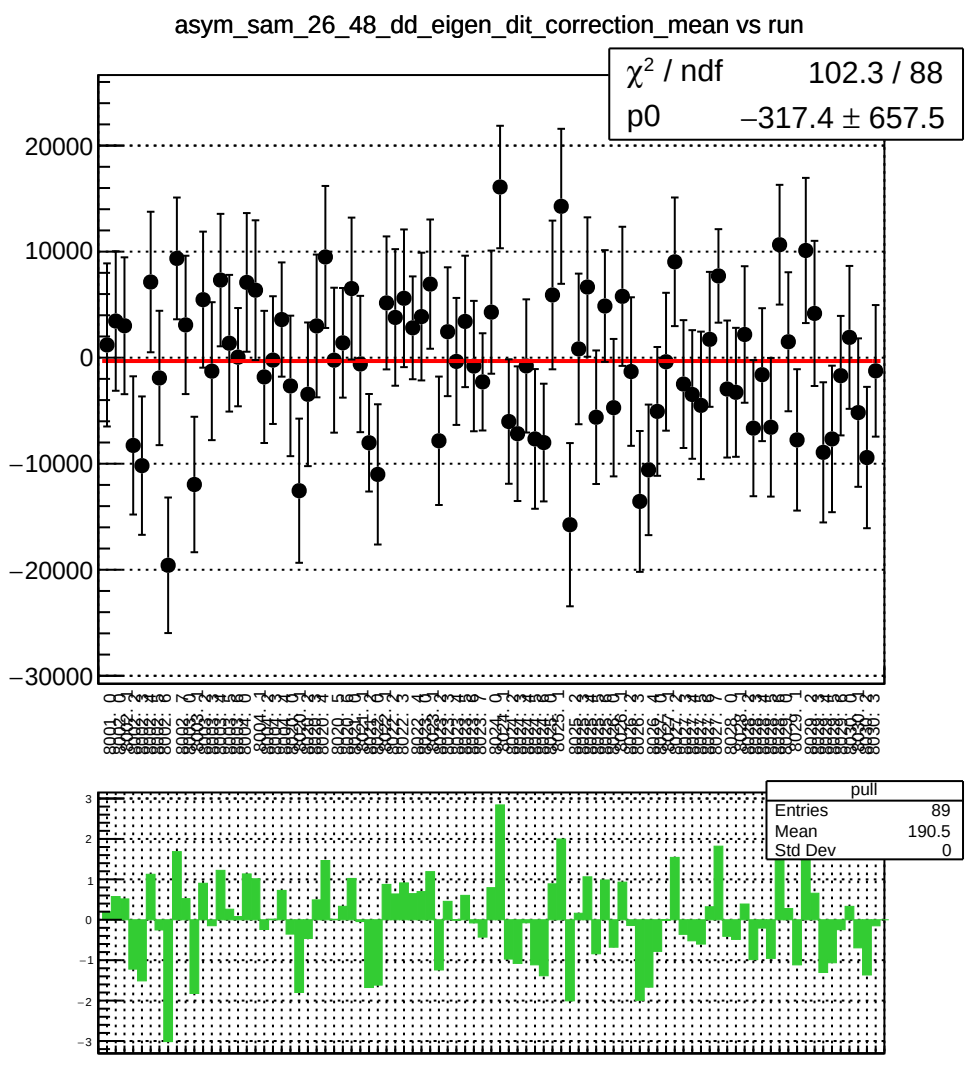

pull1D
Entries 89
Mean −0.01503
Std Dev 1.072
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

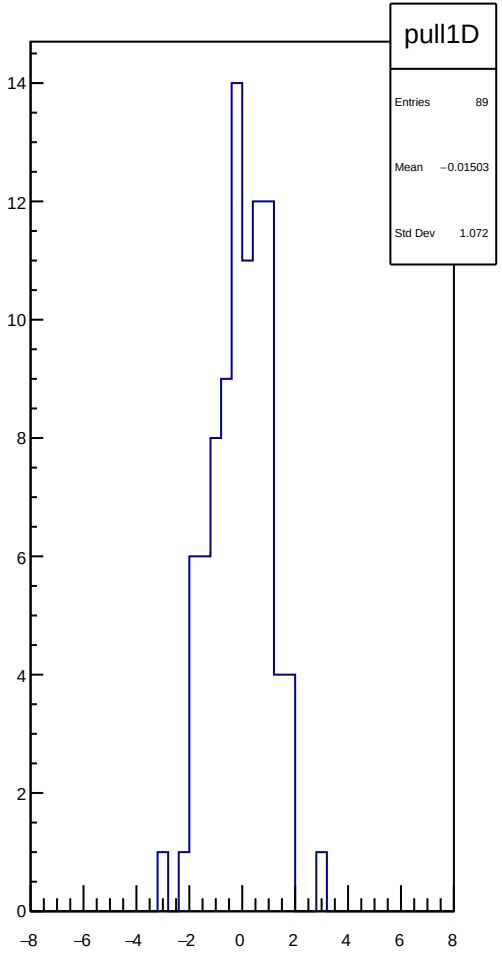

asym_sam_26_48_dd_dit_correction_rms vs run
χ² / ndf 4303 / 88
p0 611.5 ± 0.4649
750
700
650
600
550

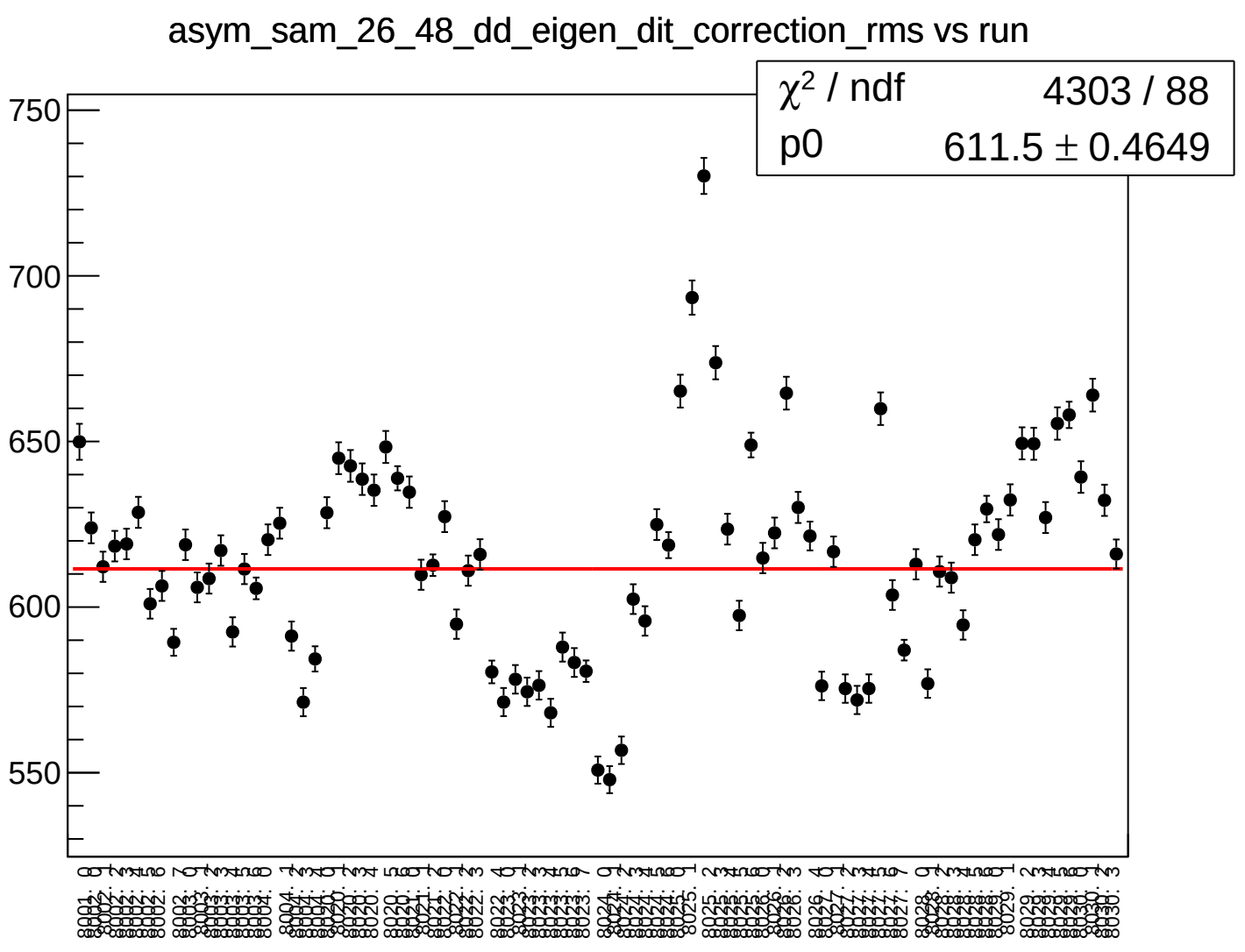

eigen_dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 85.21 / 88
p0 11.92 ± 96.98
pull
Entries 89
Mean 19.6
Std Dev 34.67

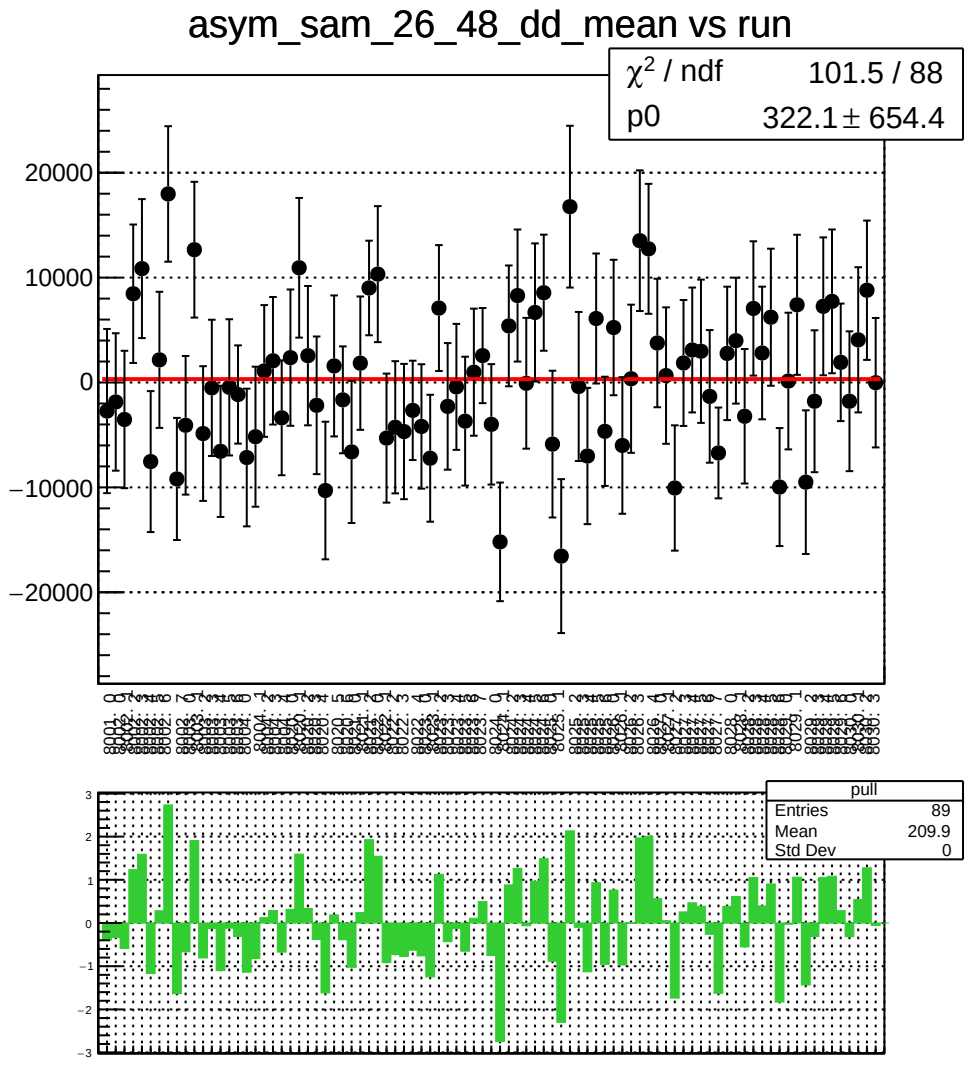

pull1D
Entries 89
Mean −0.01604
Std Dev 0.9783

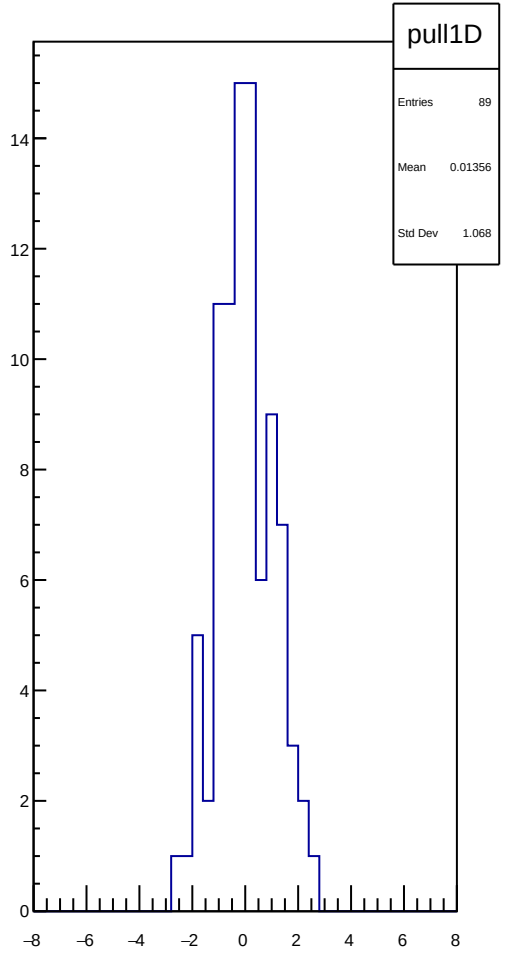

eigen_dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 1.911e+04 / 88
p0 89.82 ± 0.06857
120
115
110
105
100
95
90
85
80

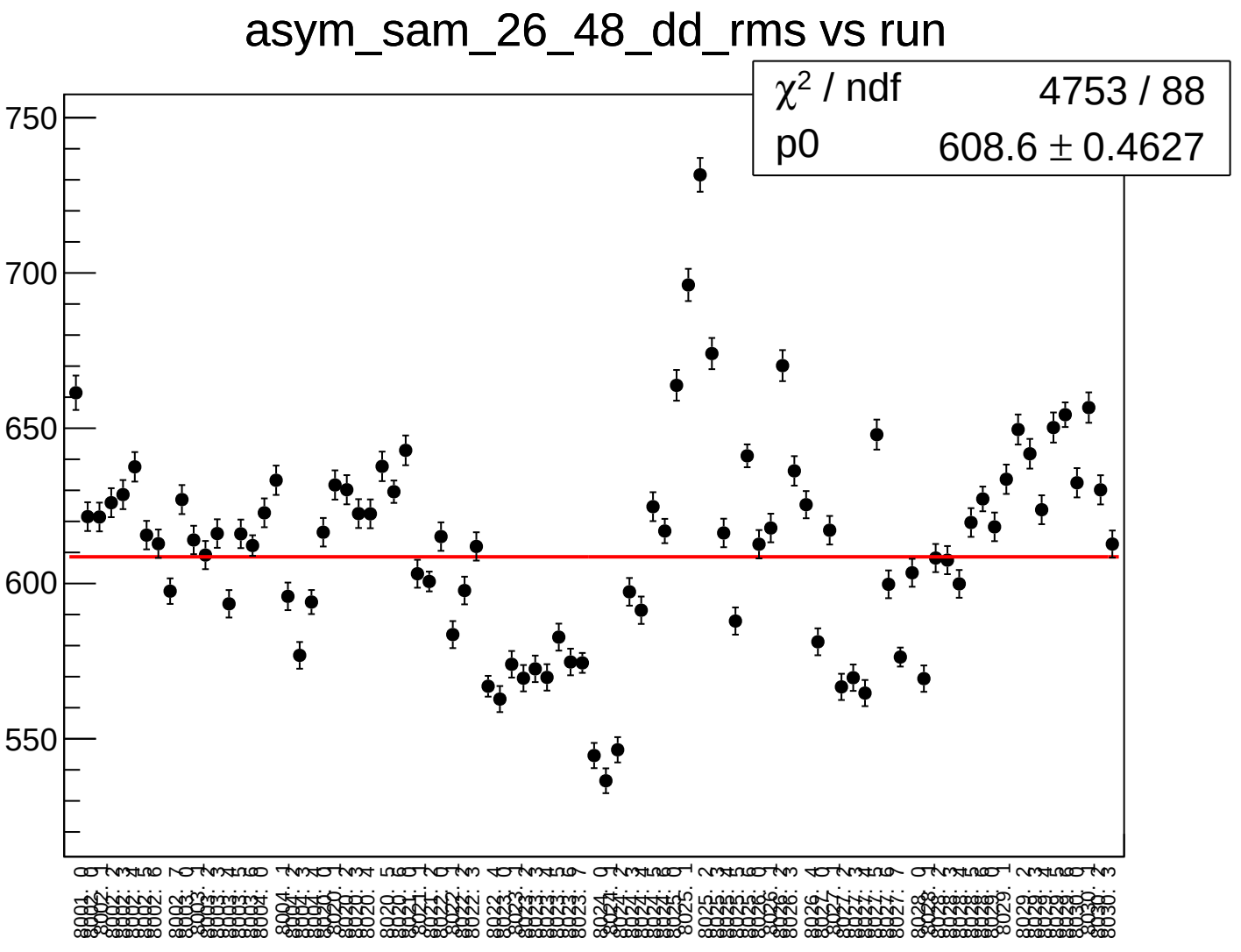

asym_sam_26_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 102.3 / 88
p0 −317.4 ± 657.5
pull
Entries 89
Mean 190.5
Std Dev 0

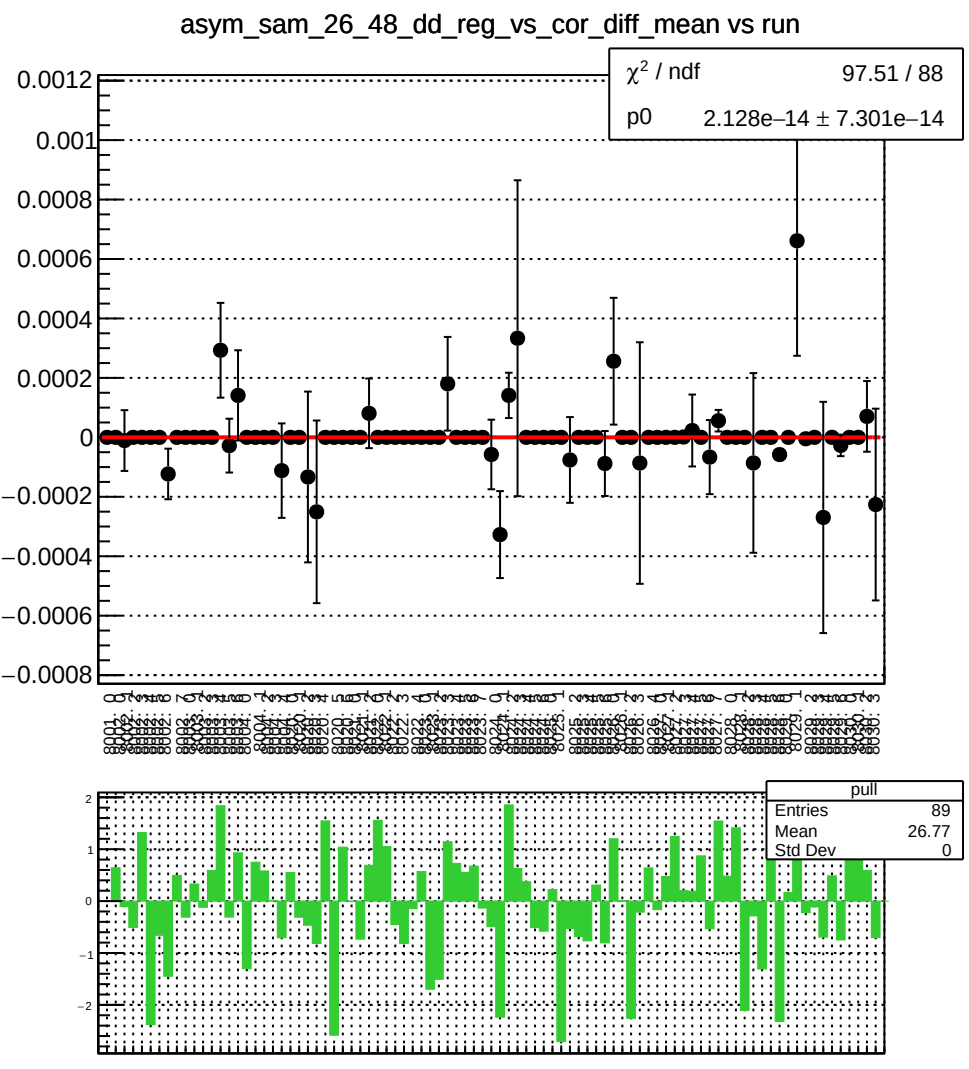

pull1D
Entries 89
Mean −0.01503
Std Dev 1.072

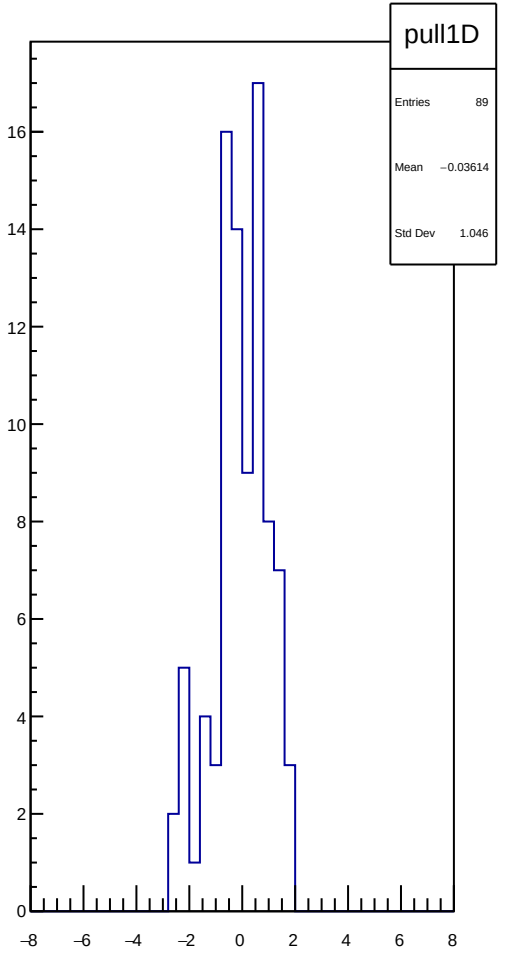

asym_sam_26_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 4303 / 88
p0 611.5 ± 0.4649
750
700
650
600
550

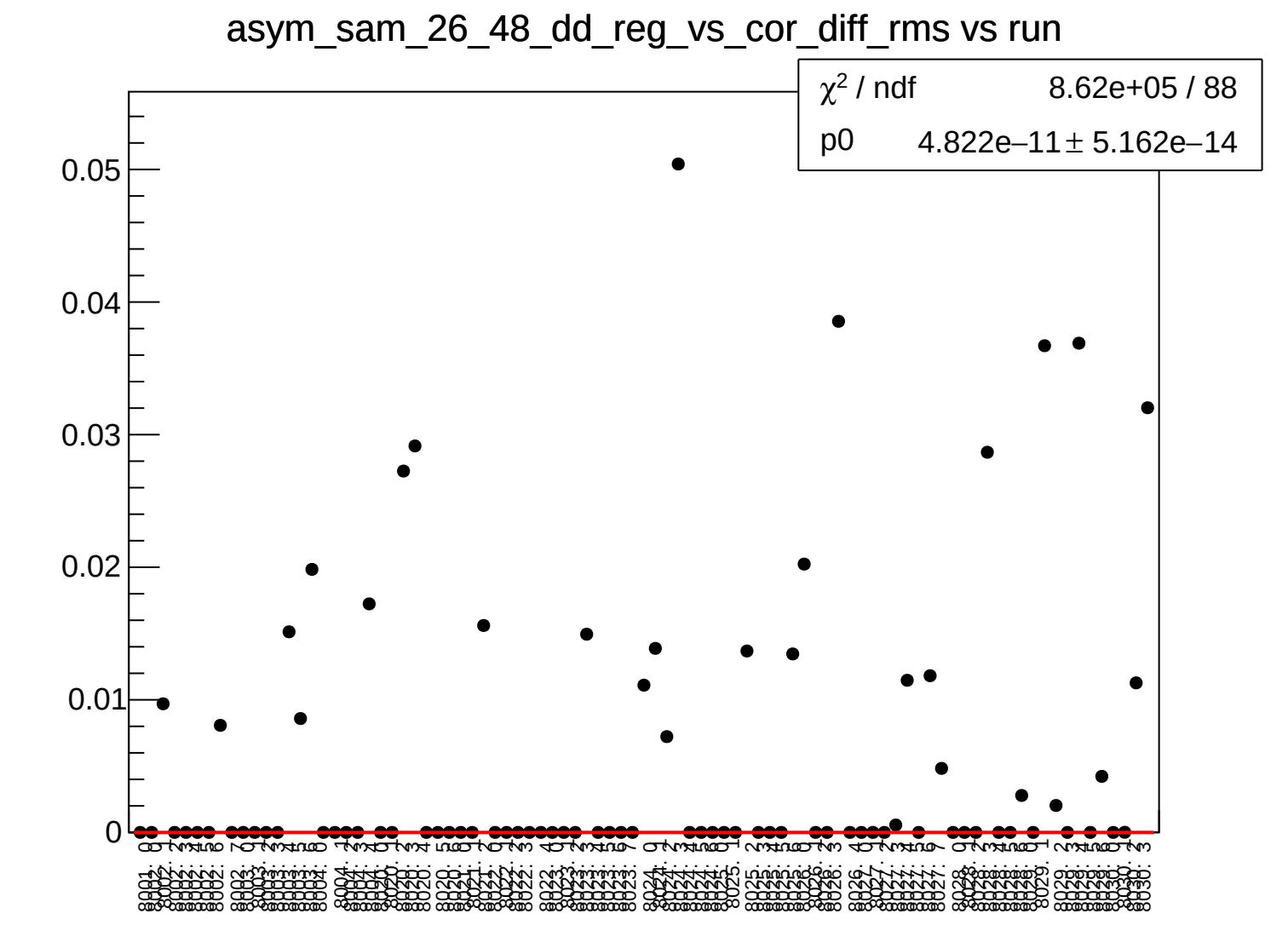

asym_sam_26_48_dd_mean vs run
χ^2 / ndf 101.5 / 88
p0 322.1 ± 654.4
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 209.9
Std Dev 0
3
2
1
0
−1
−2
−3

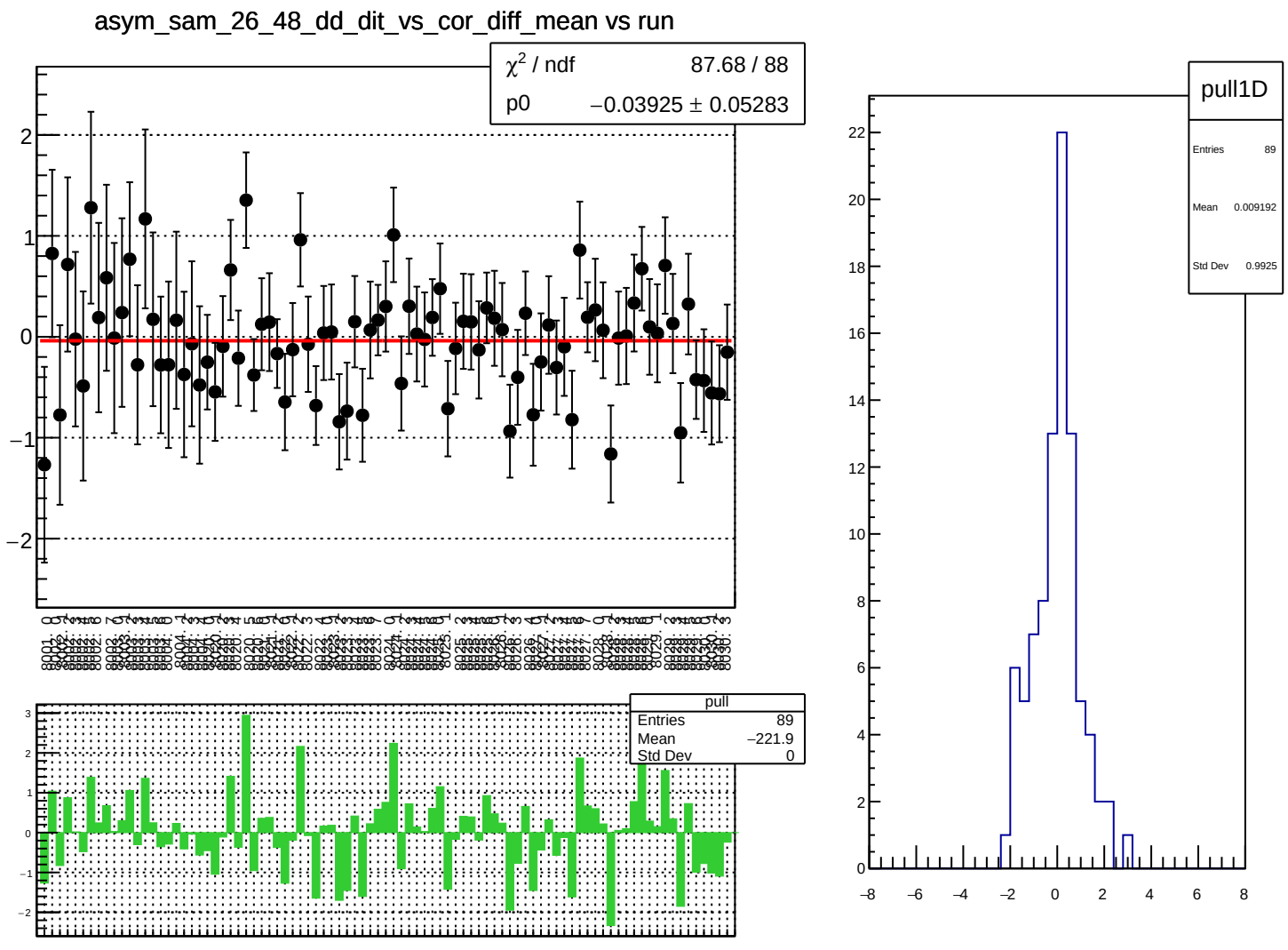

pull1D
Entries 89
Mean 0.01356
Std Dev 1.068
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

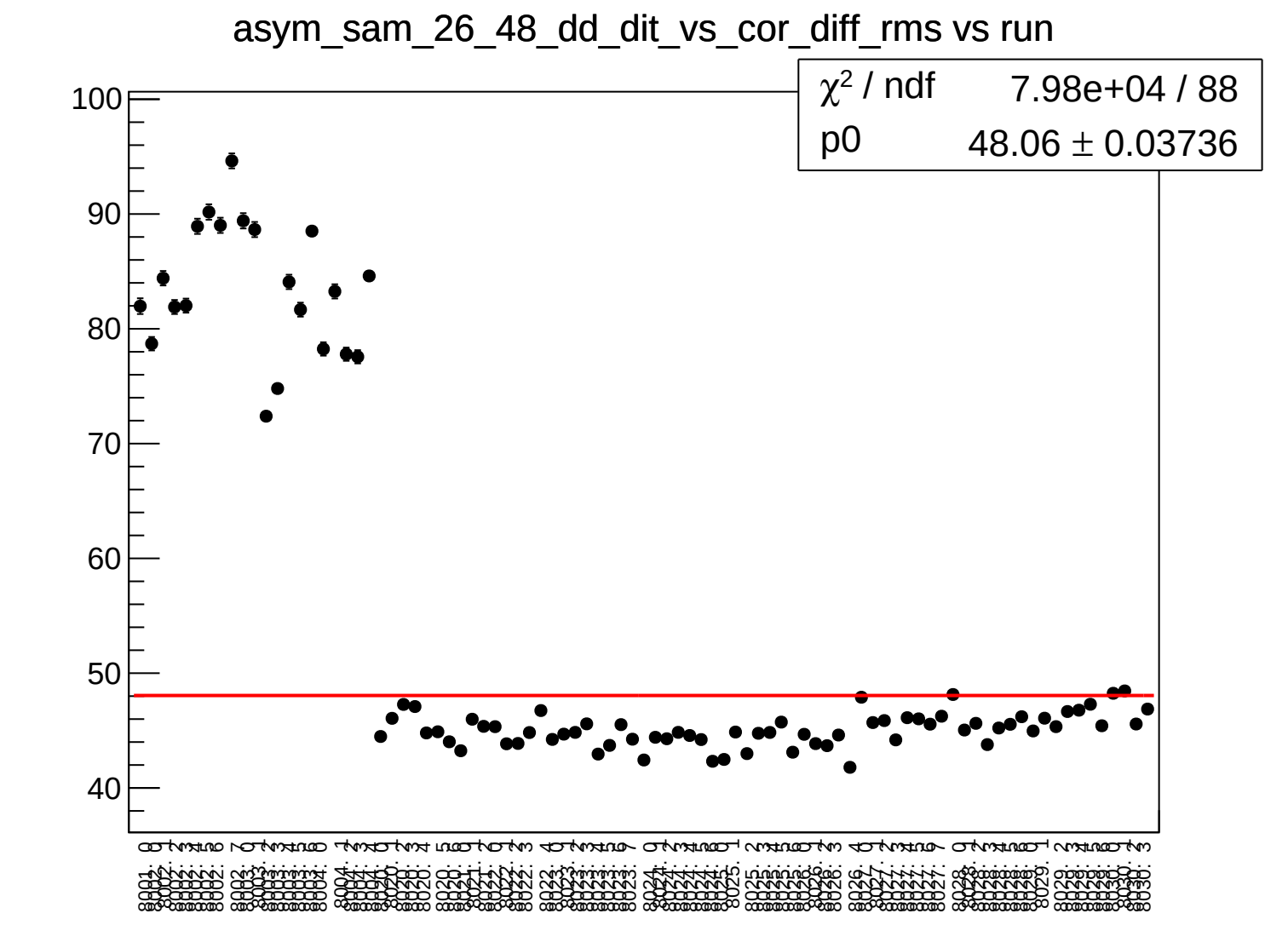

asym_sam_26_48_dd_rms vs run
χ² / ndf 4753 / 88
p0 608.6 ± 0.4627
750
700
650
600
550


asym_sam_26_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 97.51 / 88
p0 2.128e−14 ± 7.301e−14
pull
Entries 89
Mean 26.77
Std Dev 0

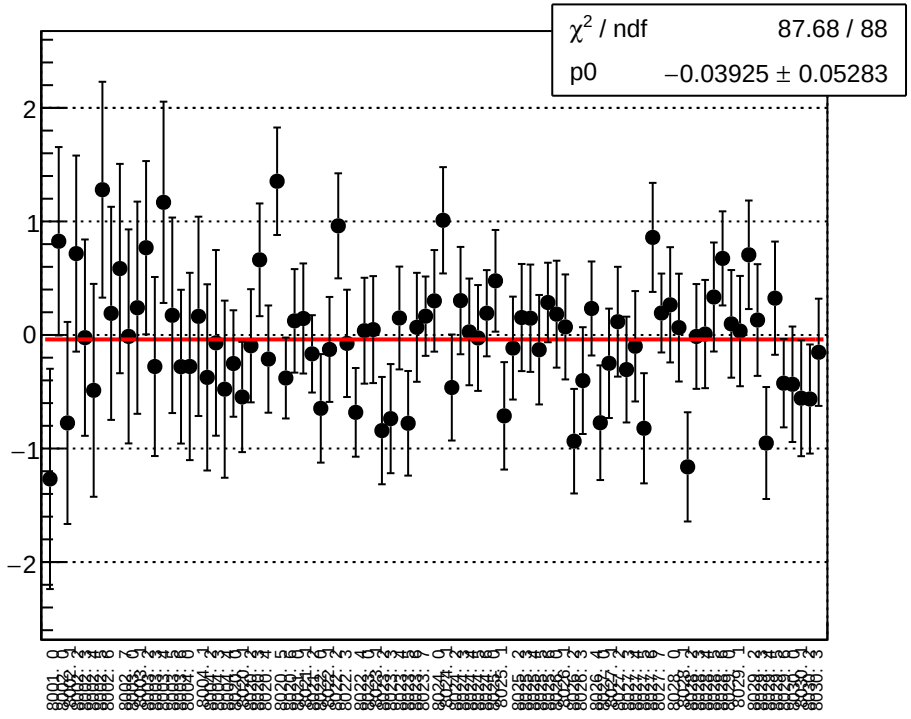

pull1D
Entries 89
Mean −0.03614
Std Dev 1.046

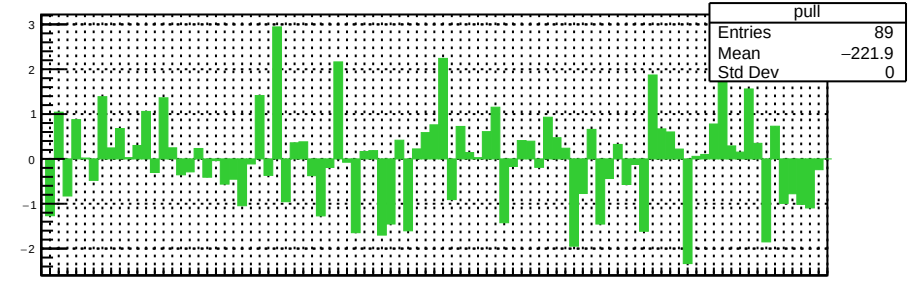

asym_sam_26_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.62e+05 / 88
p0 4.822e−11 ± 5.162e−14
0.05
0.04
0.03
0.02
0.01
0

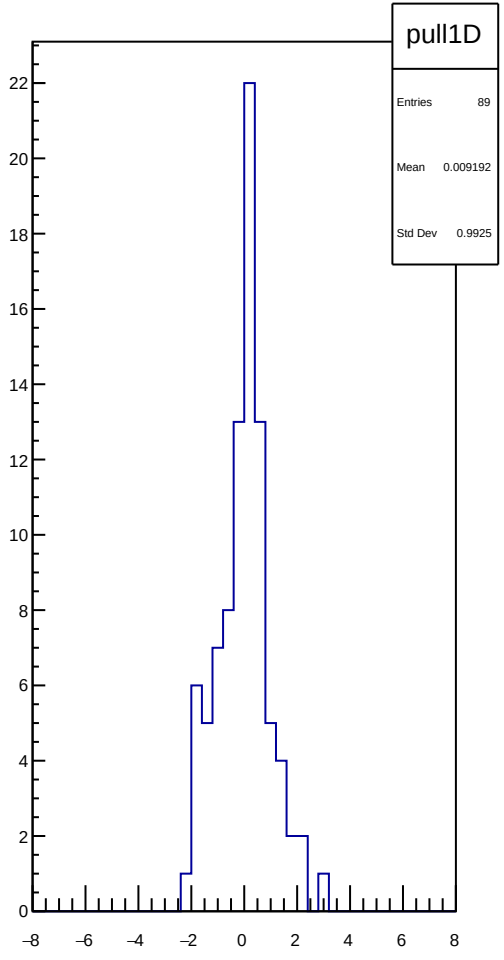

asym_sam_26_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 87.68 / 88
p0 −0.03925 ± 0.05283
pull
Entries 89
Mean −221.9
Std Dev 0
pull1D
Entries 89
Mean 0.009192
Std Dev 0.9925

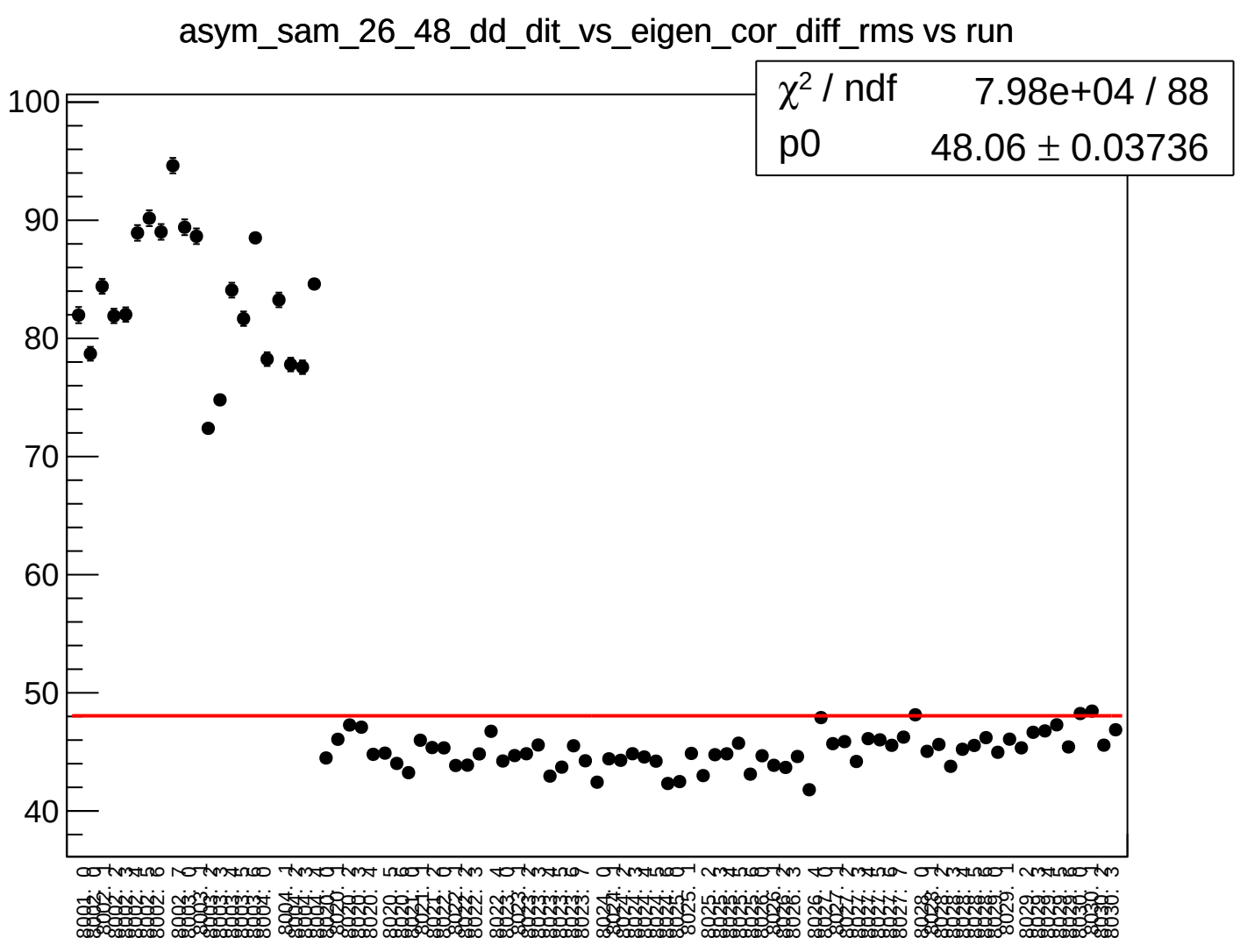

asym_sam_26_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.98e+04 / 88
p0 48.06 ± 0.03736
100
90
80
70
60
50
40

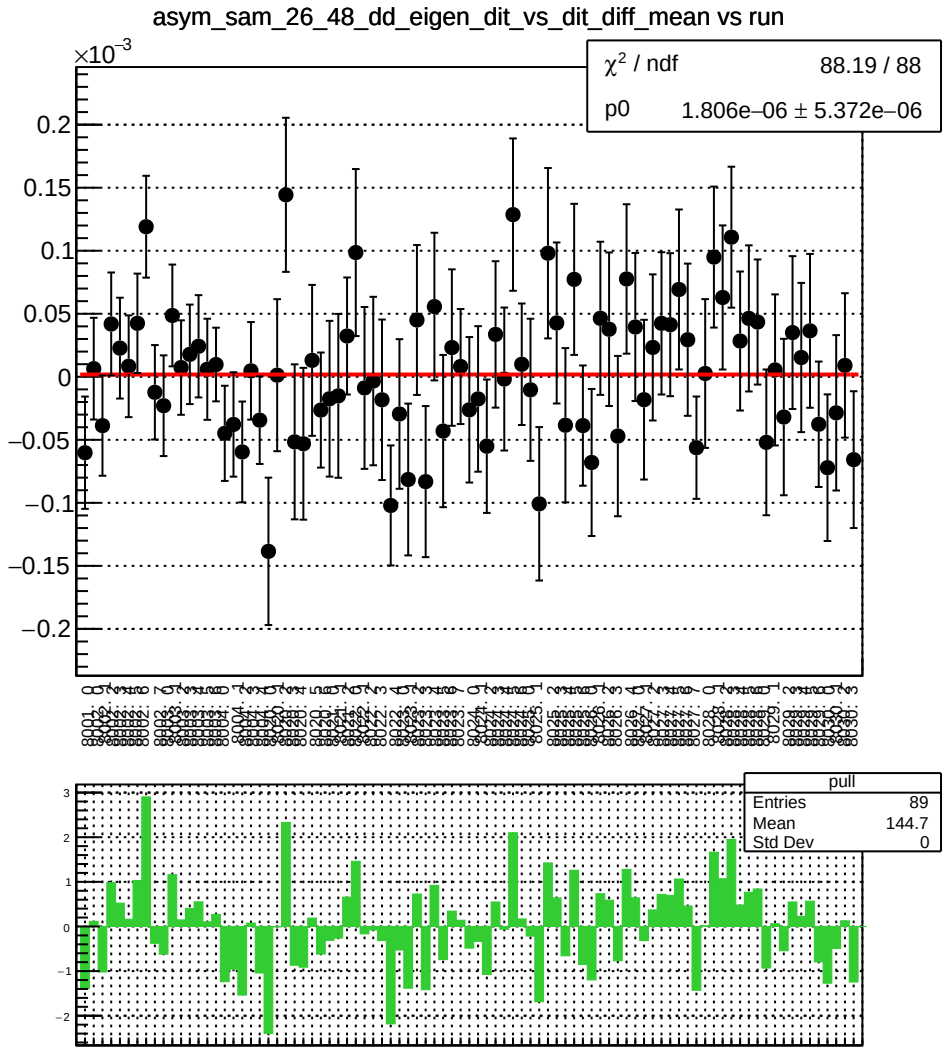
asym_sam_26_48_dd_dit_vs_eigen_cor_diff_mean vs run

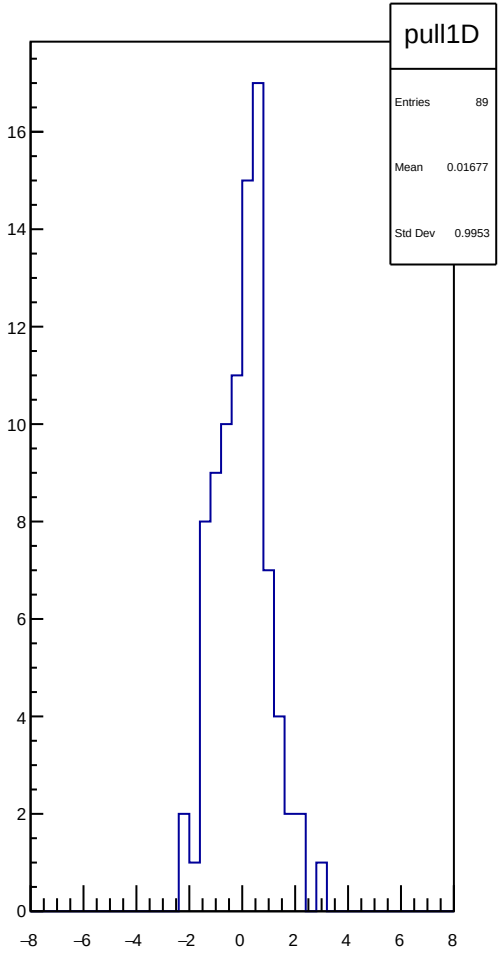


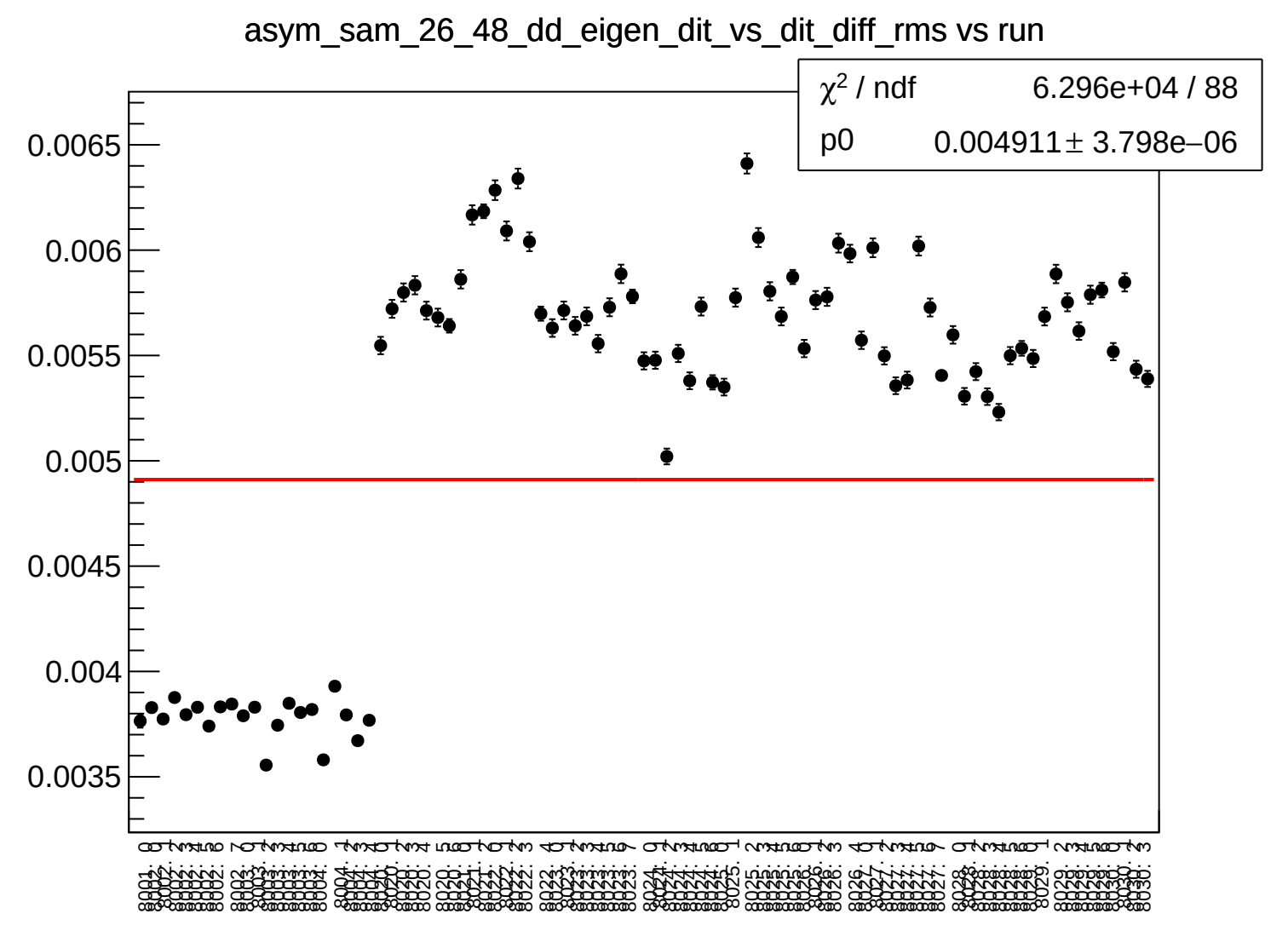


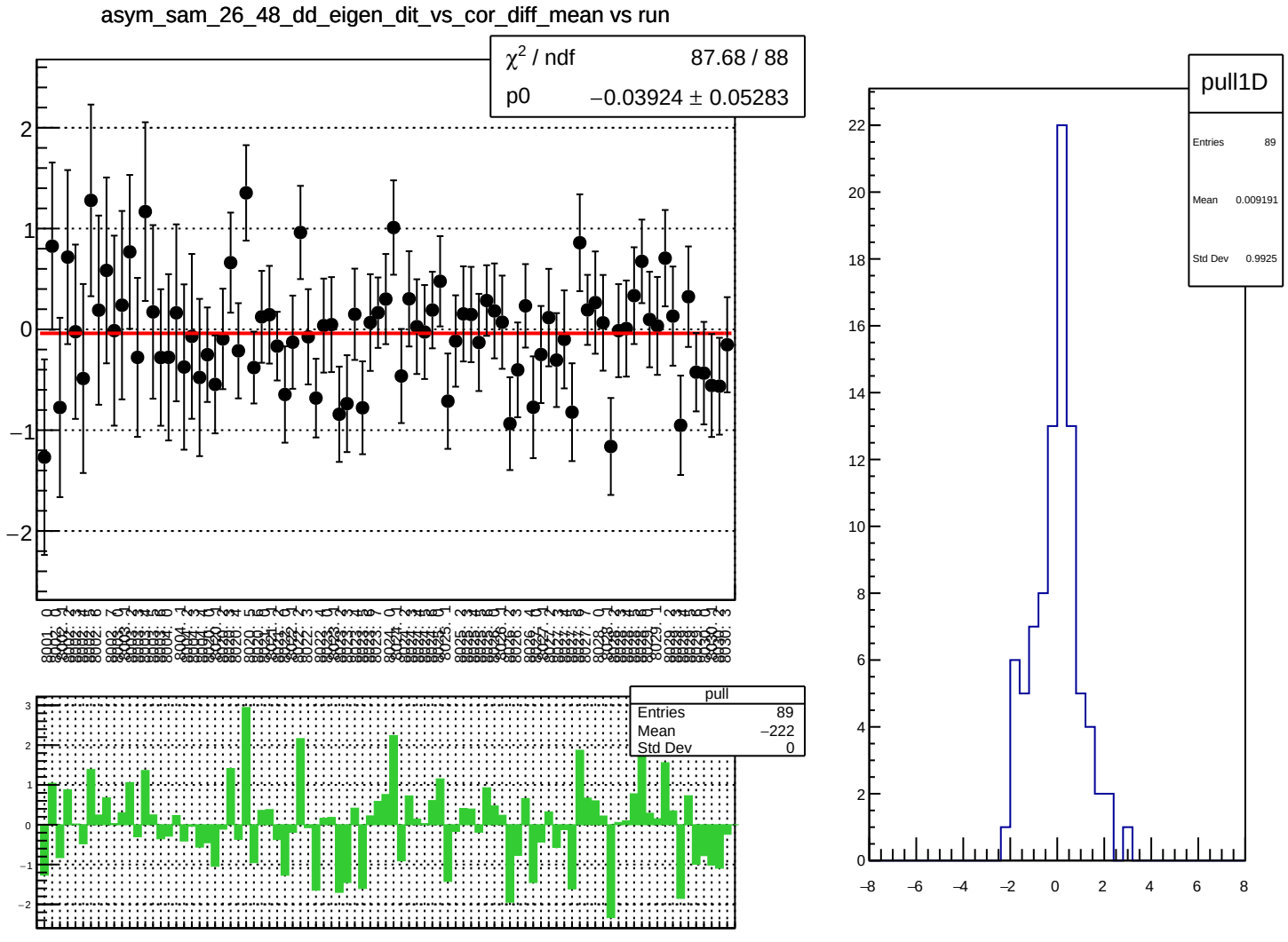


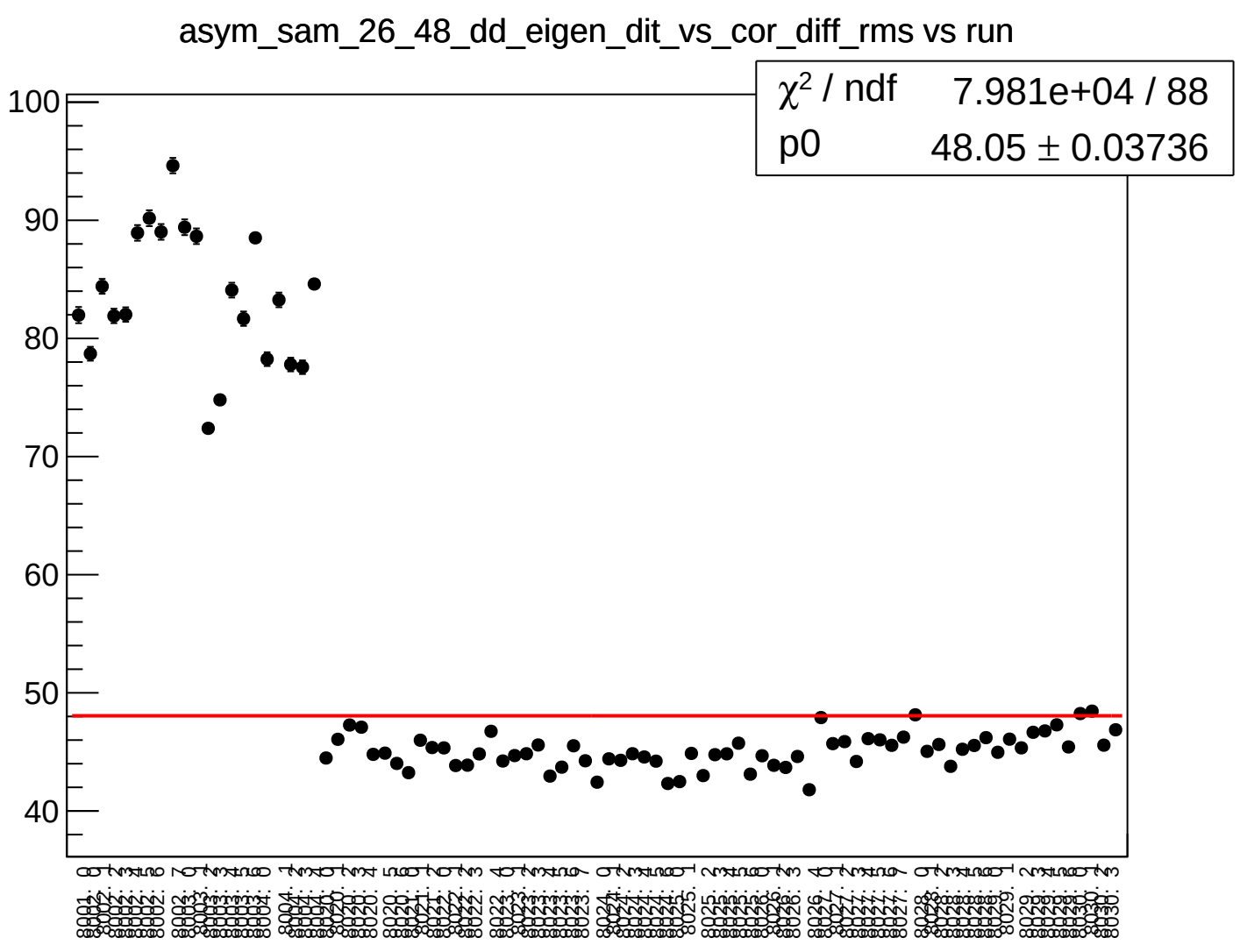

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.98e+04 / 88
p0 48.06 ± 0.03736
100
90
80
70
60
50
40

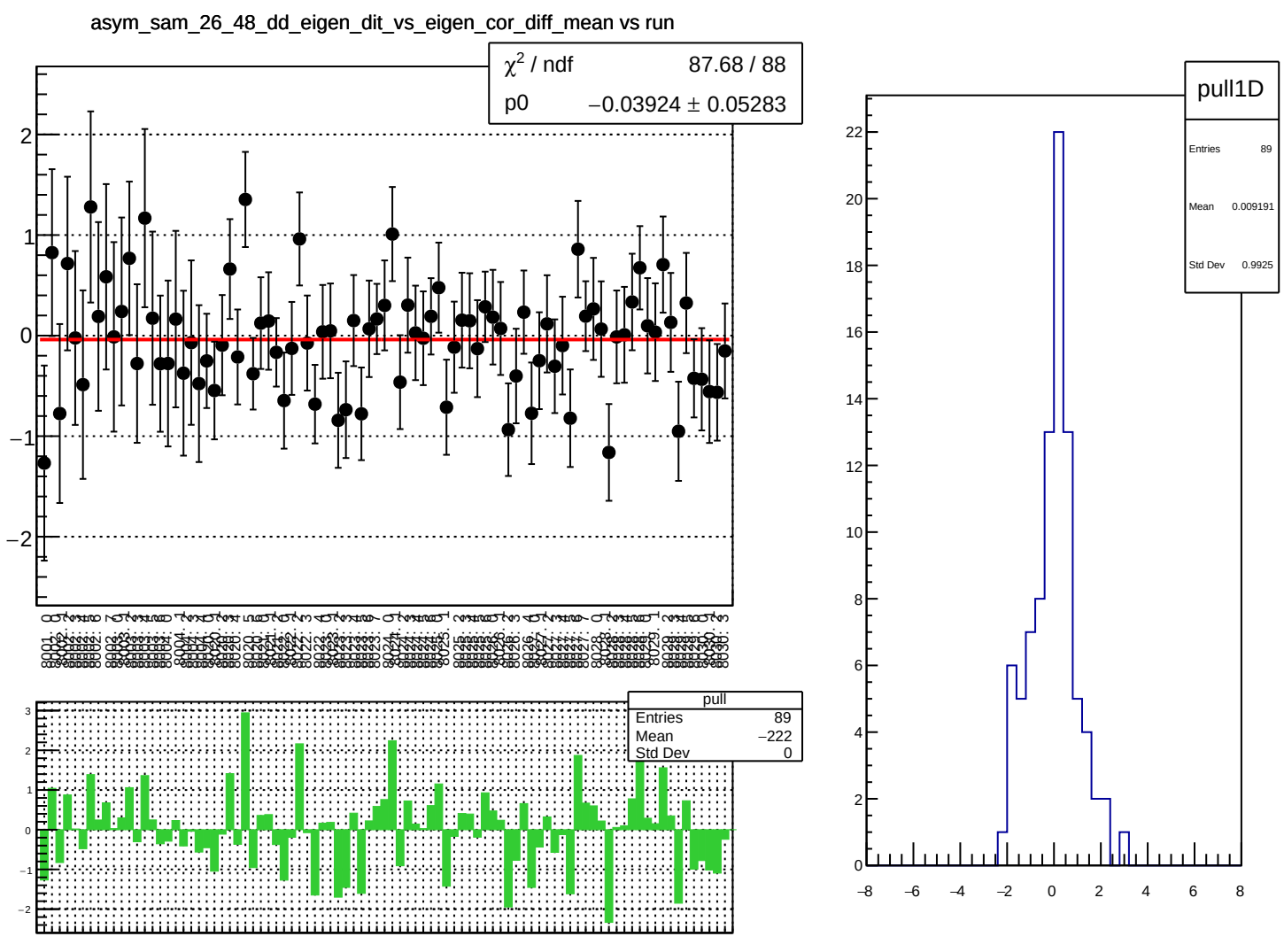

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.19 / 88
p0 1.806e−06 ± 5.372e−06
pull
Entries 89
Mean 144.7
Std Dev 0

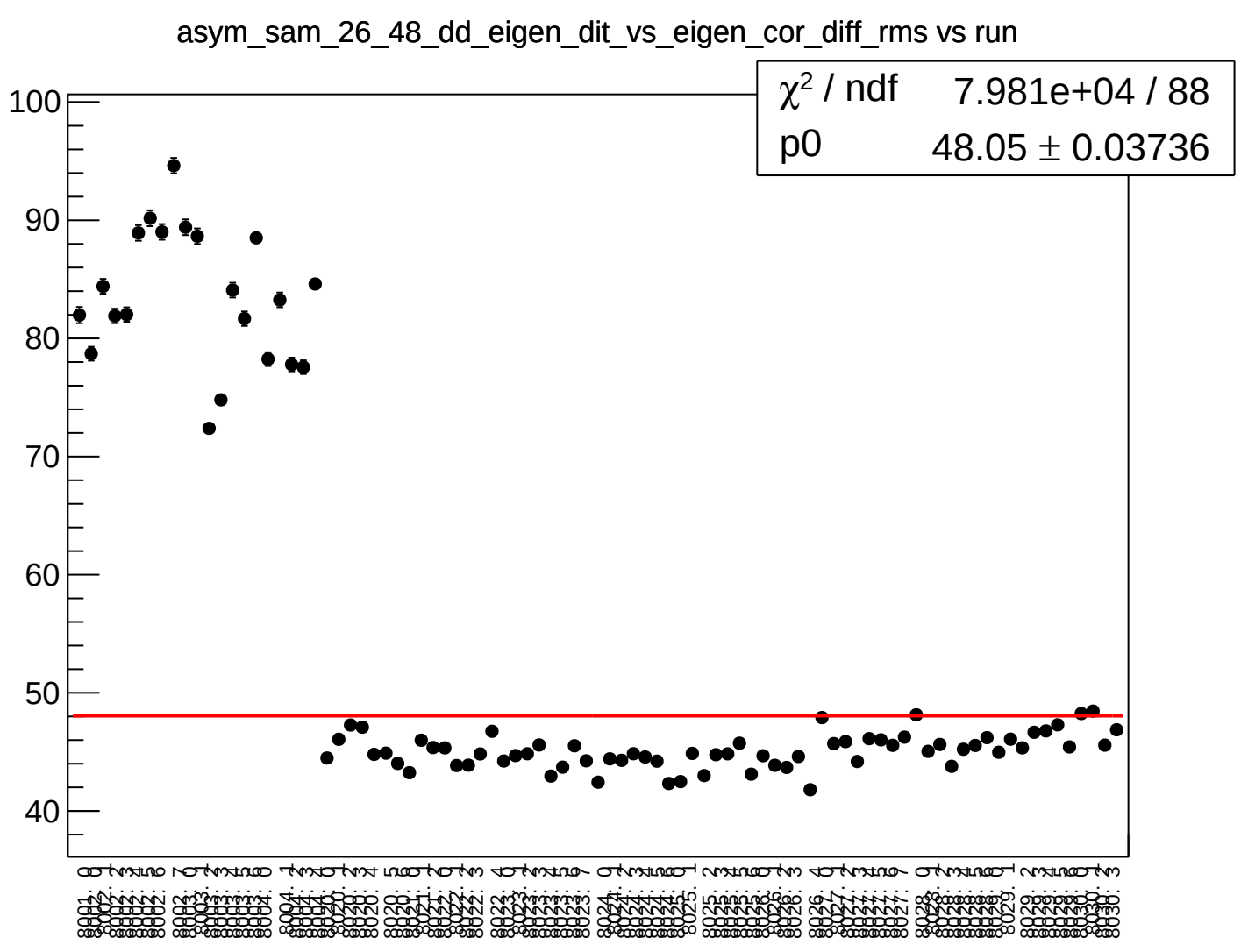

pull1D
Entries 89
Mean 0.01677
Std Dev 0.9953

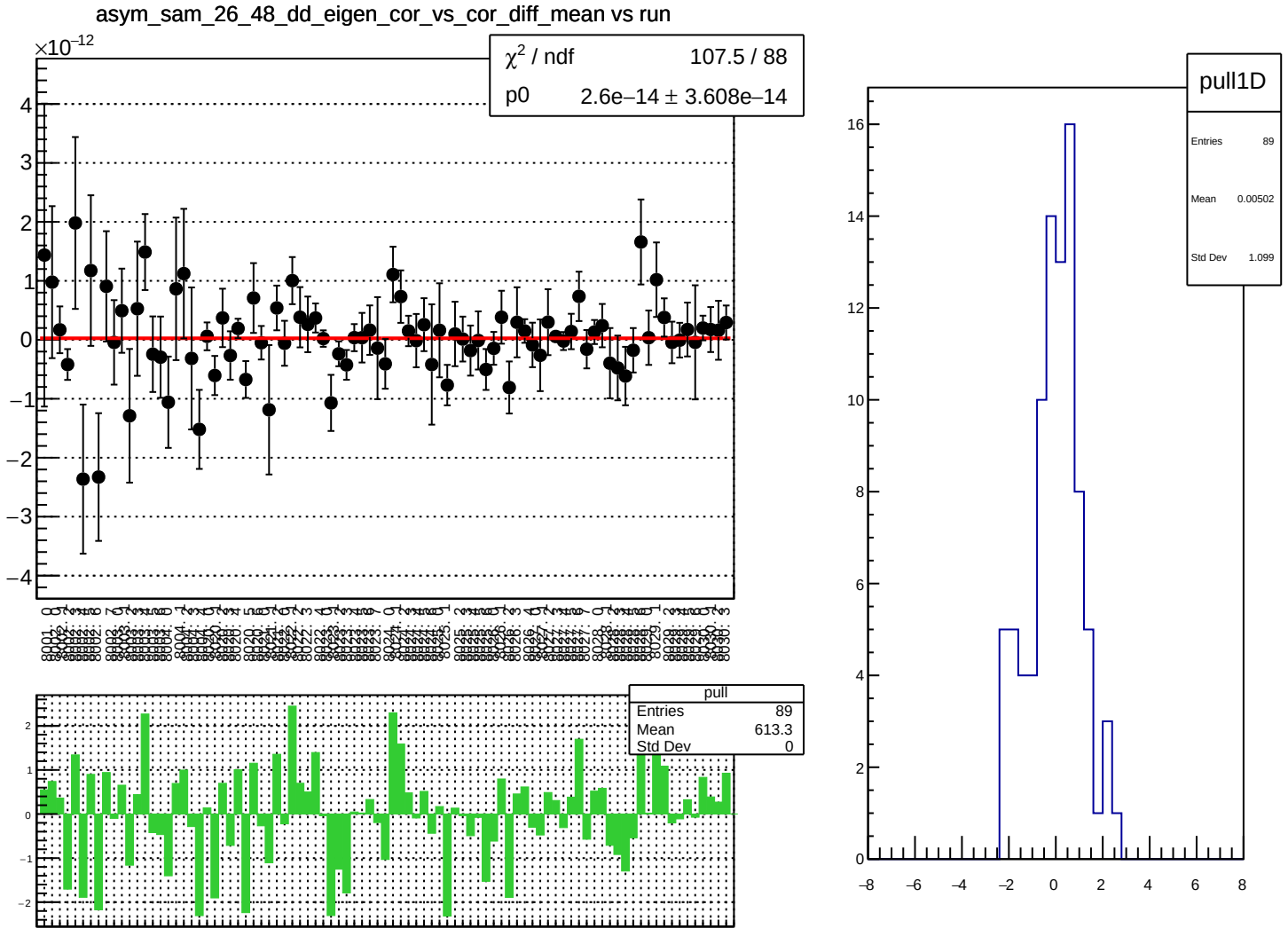

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.296e+04 / 88
p0 0.004911 ± 3.798e−06
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035

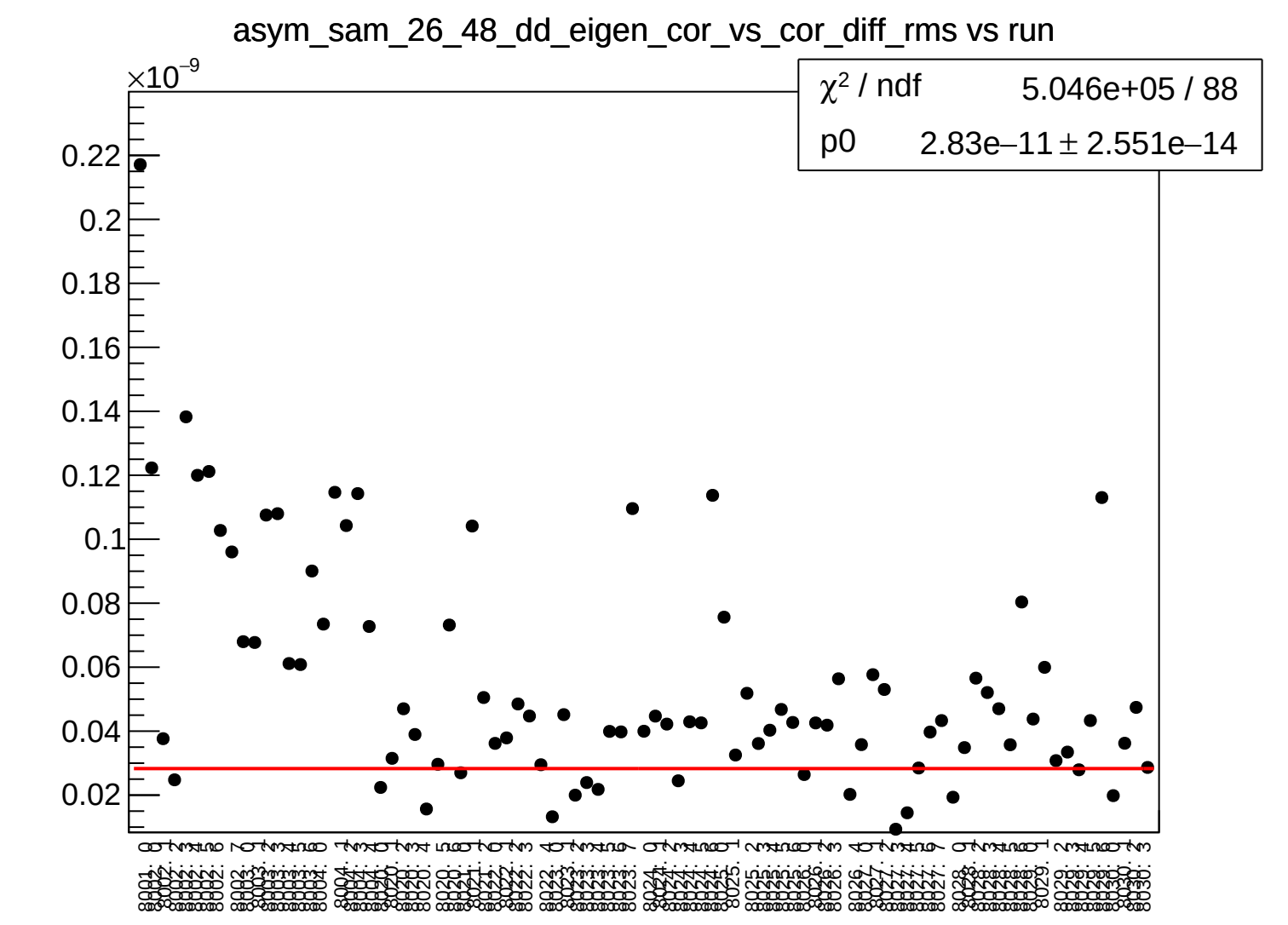

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.68 / 88
p0 −0.03924 ± 0.05283
pull
Entries 89
Mean −222
Std Dev 0
pull1D
Entries 89
Mean 0.009191
Std Dev 0.9925

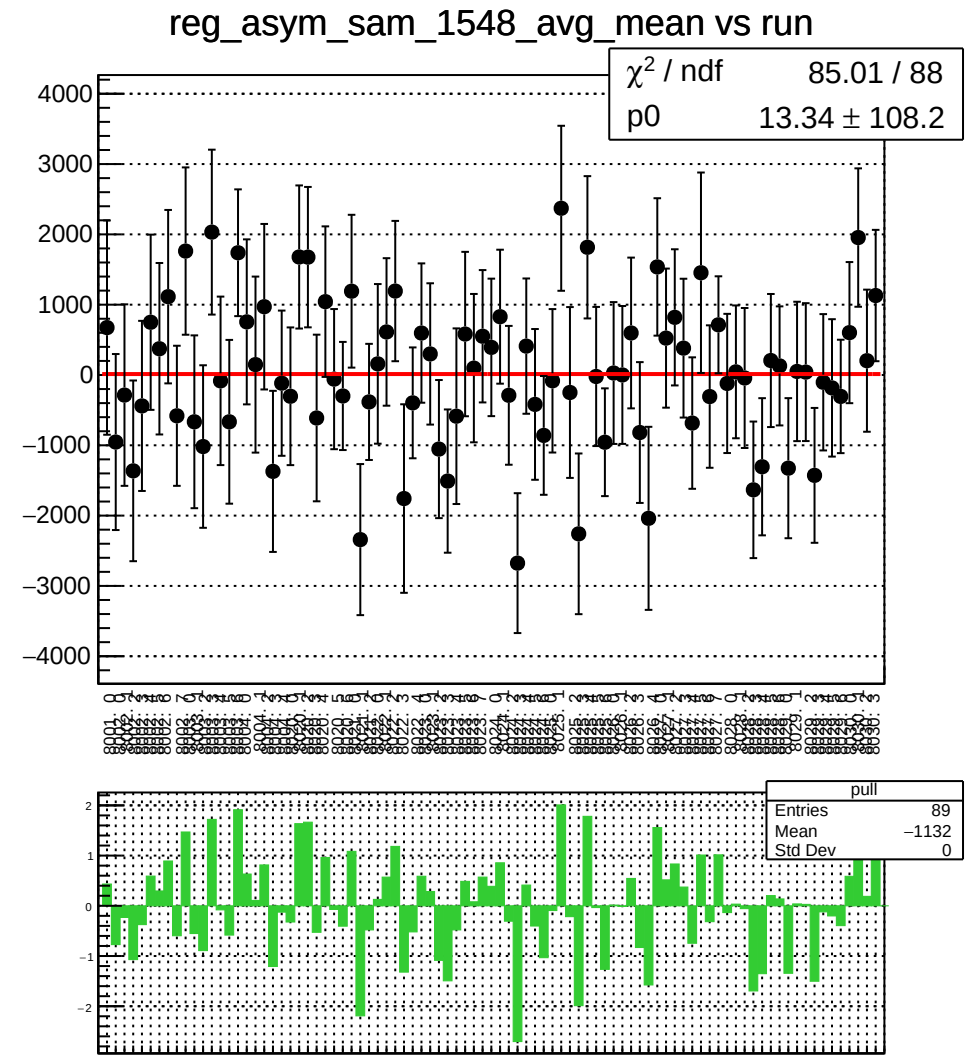

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.981e+04 / 88
p0 48.05 ± 0.03736
100
90
80
70
60
50
40

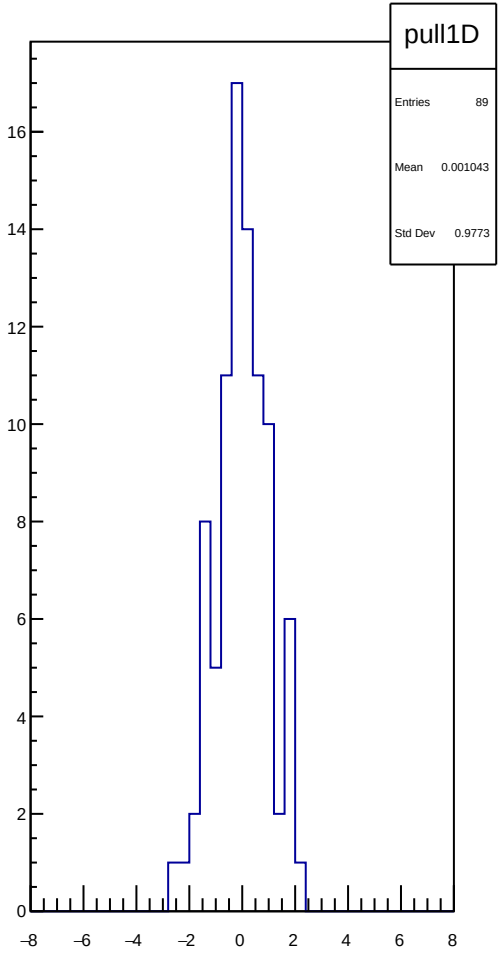

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.68 / 88
p0 −0.03924 ± 0.05283
pull
Entries 89
Mean −222
Std Dev 0
pull1D
Entries 89
Mean 0.009191
Std Dev 0.9925

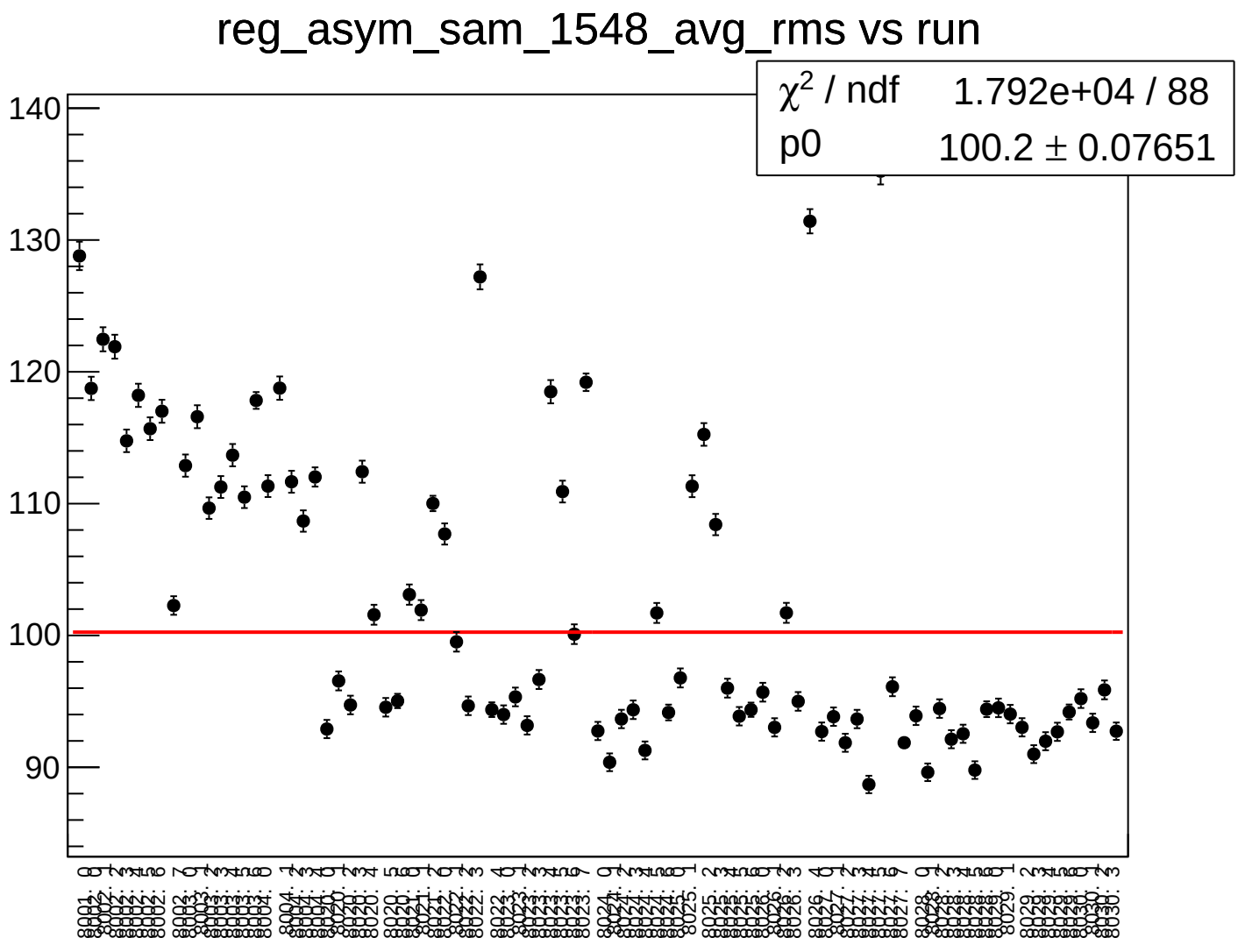

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.981e+04 / 88
p0 48.05 ± 0.03736
100
90
80
70
60
50
40

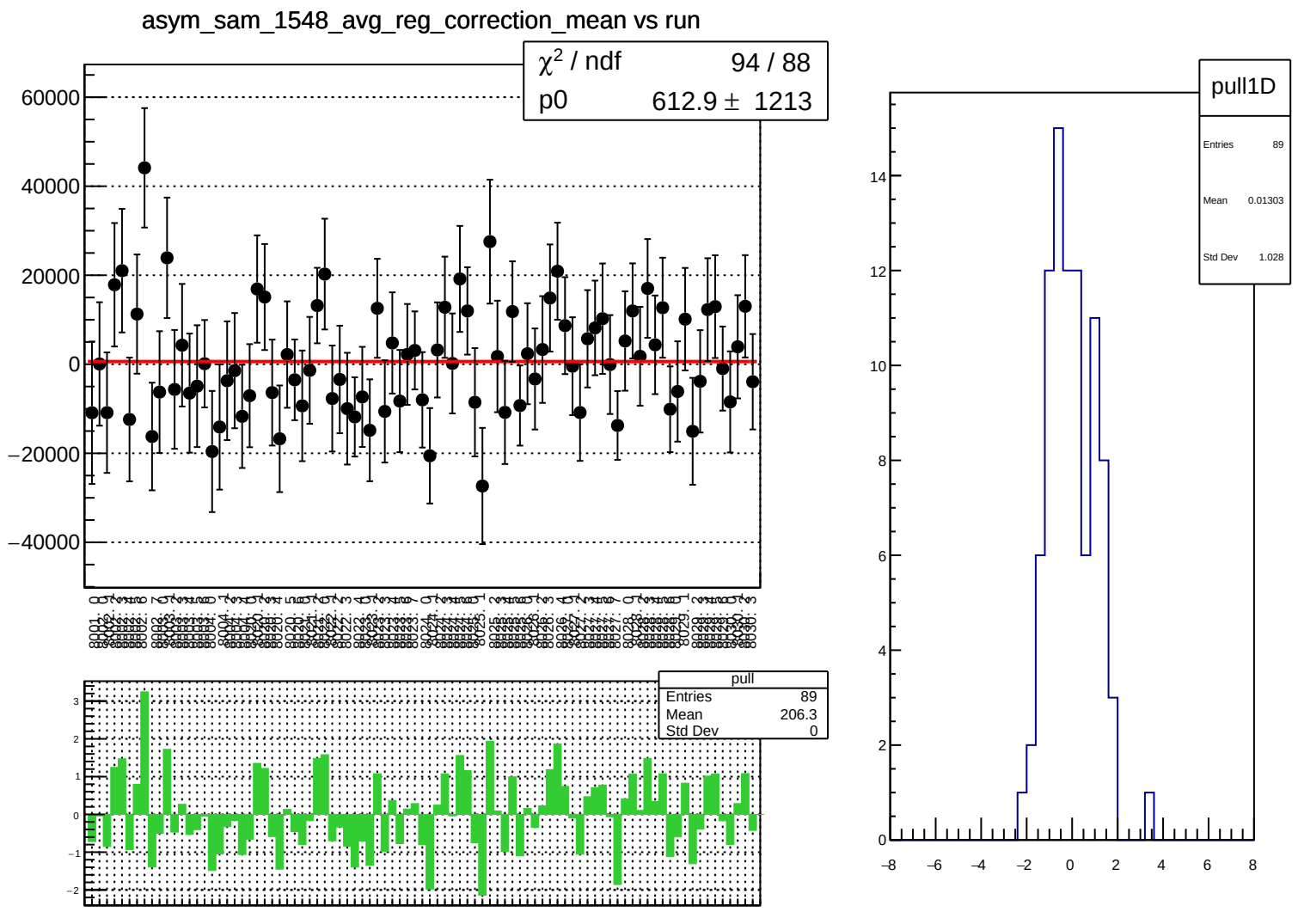

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 107.5 / 88
p0 2.6e−14 ± 3.608e−14
pull
Entries 89
Mean 613.3
Std Dev 0
pull1D
Entries 89
Mean 0.00502
Std Dev 1.099

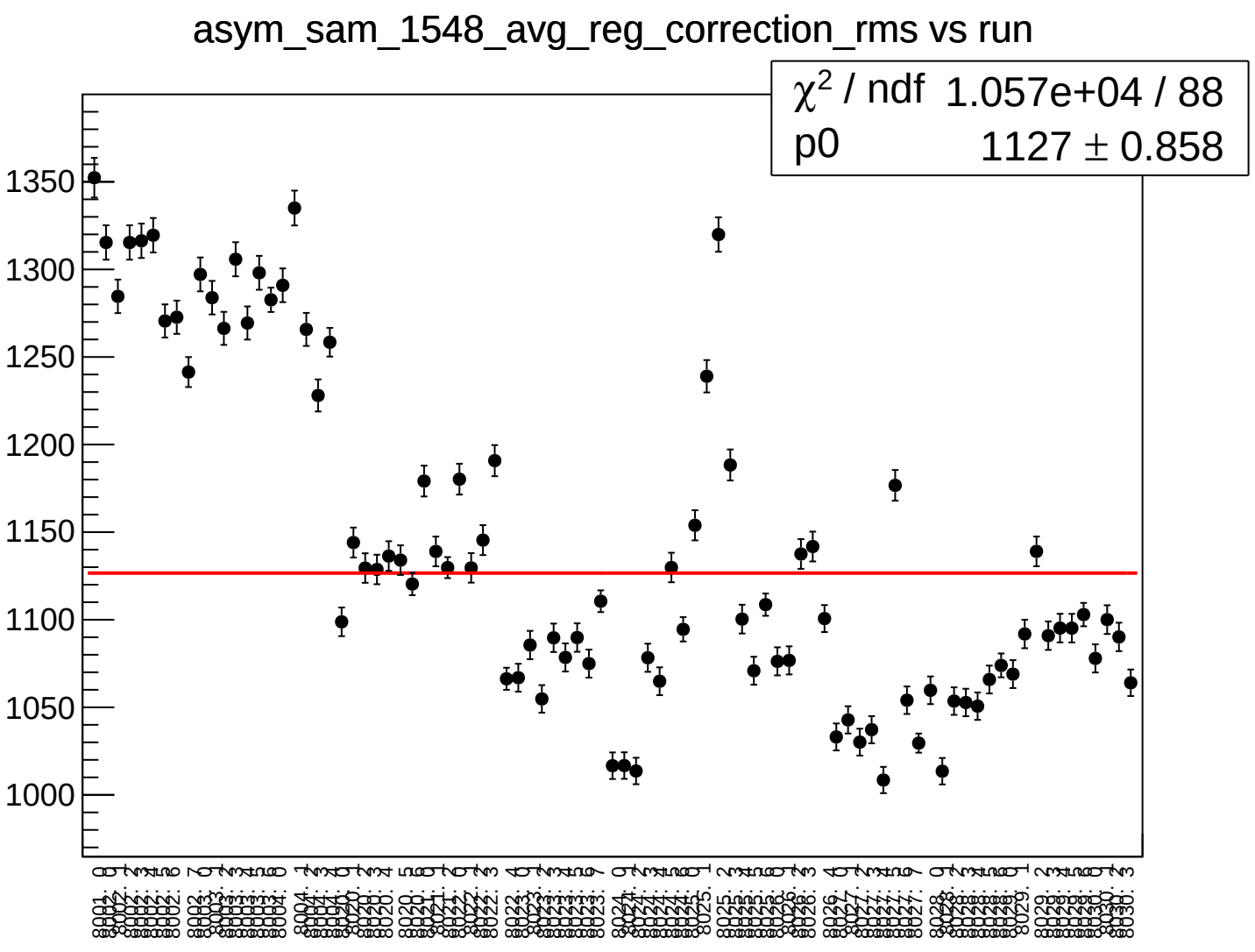

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.046e+05 / 88
p0 2.83e−11 ± 2.551e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

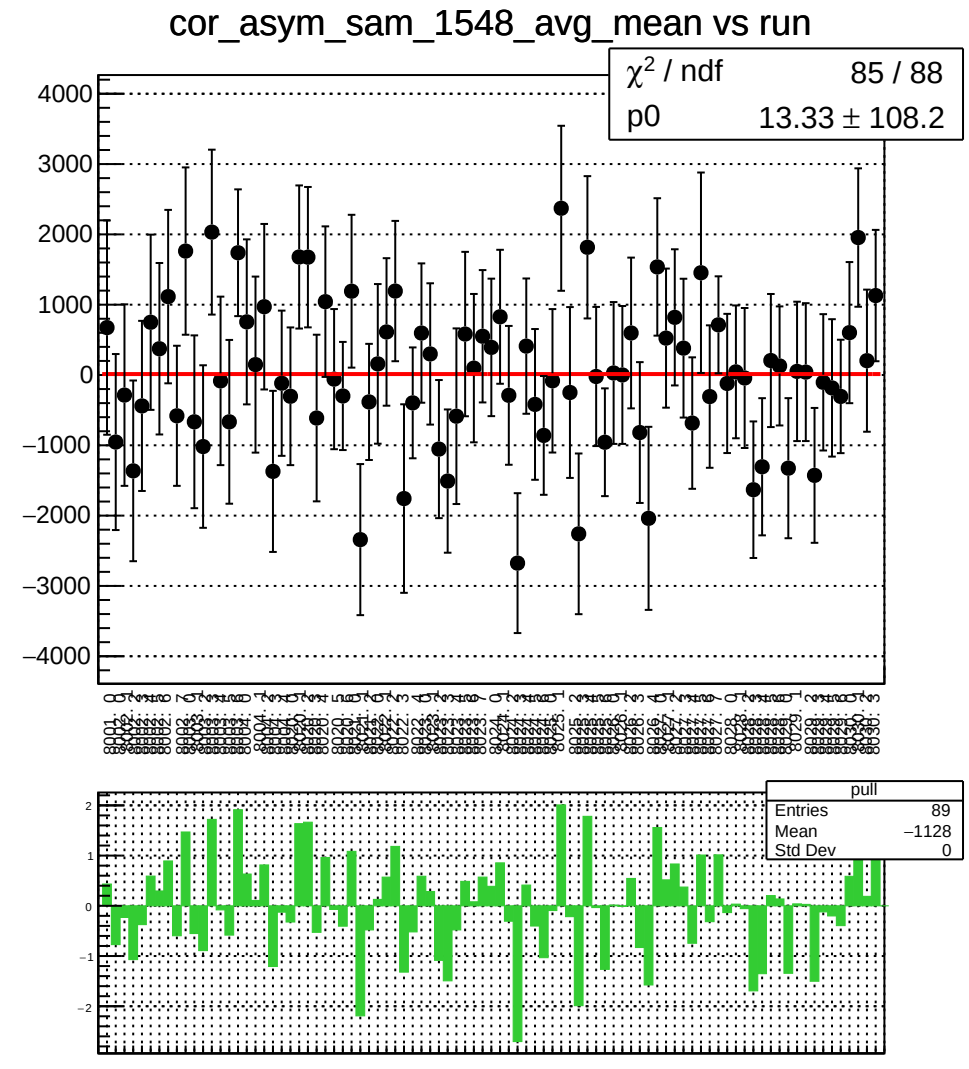

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 85.01 / 88
p0 13.34 ± 108.2
pull
Entries 89
Mean −1132
Std Dev 0

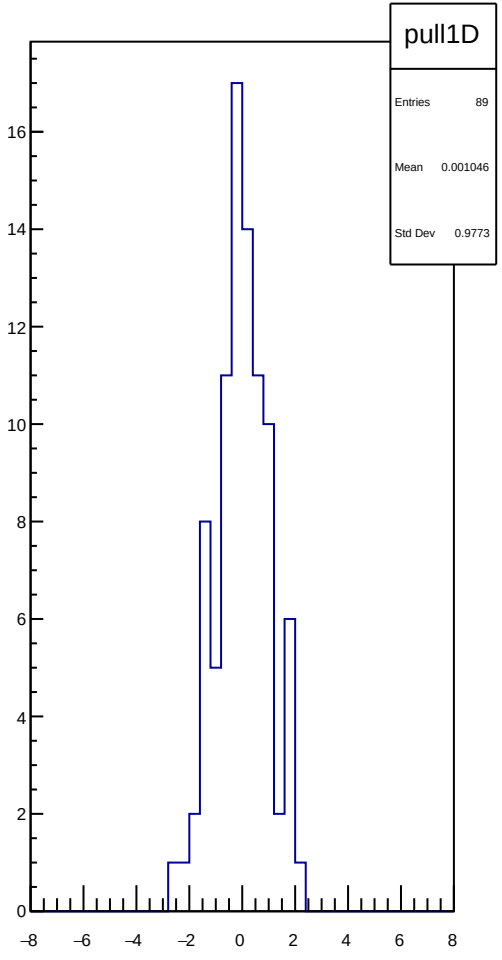

pull1D
Entries 89
Mean 0.001043
Std Dev 0.9773

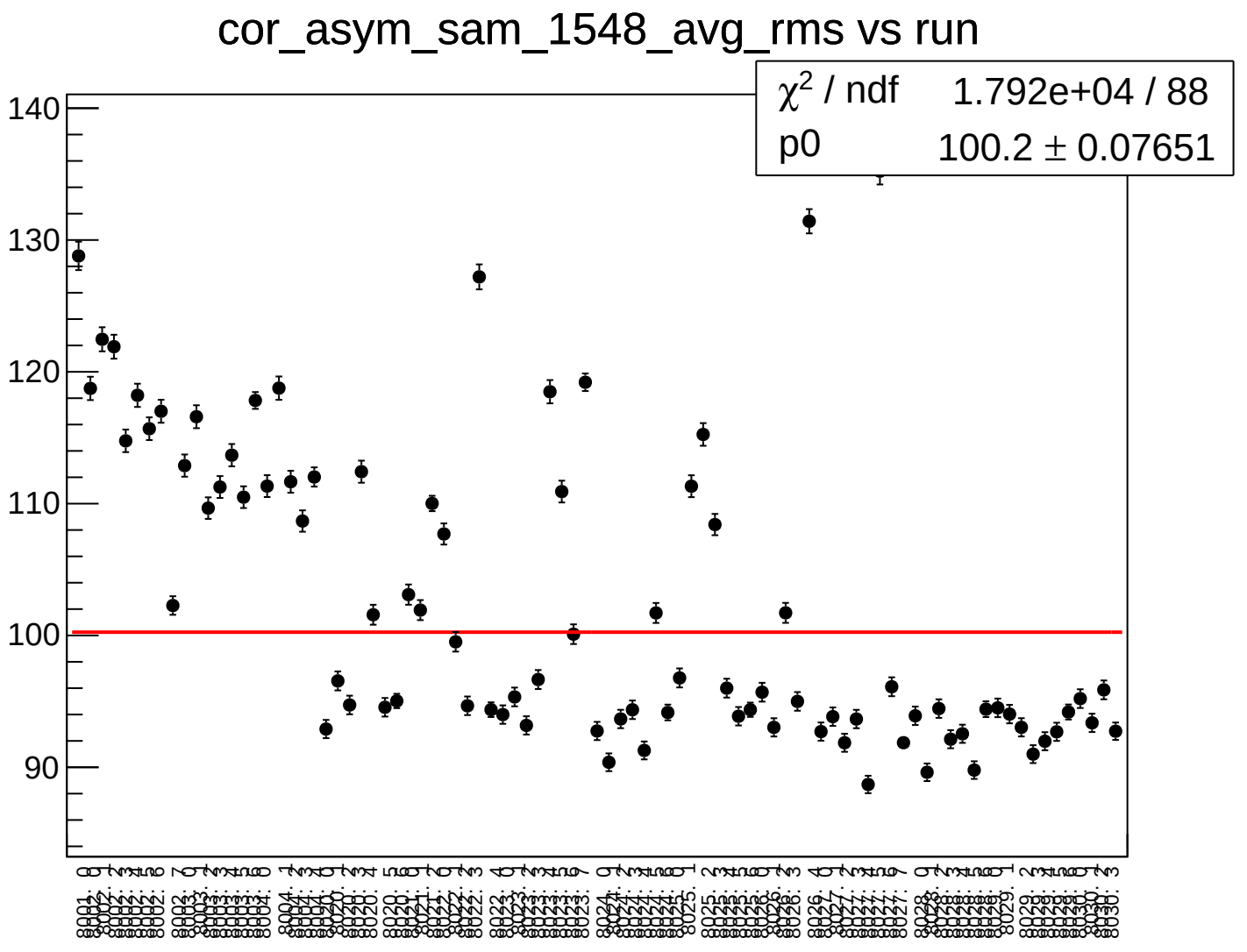

reg_asym_sam_1548_avg_rms vs run
χ² / ndf 1.792e+04 / 88
p0 100.2 ± 0.07651
140
130
120
110
100
90

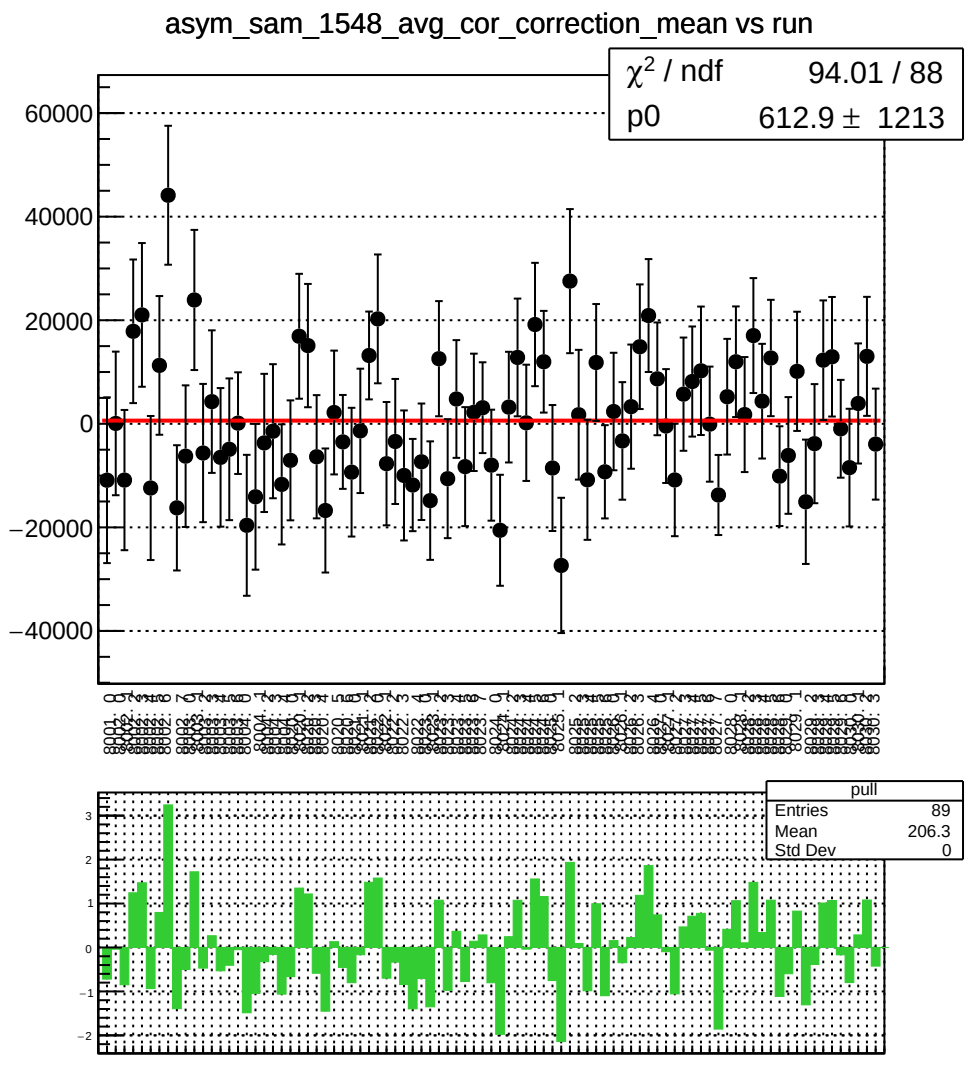

asym_sam_1548_avg_reg_correction_mean vs run
χ² / ndf 94 / 88
p0 612.9 ± 1213
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 206.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.01303
Std Dev 1.028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

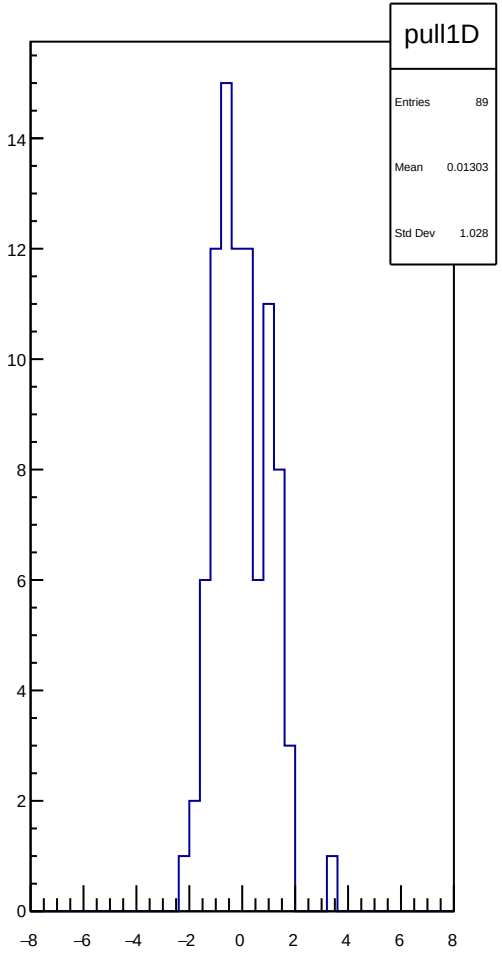

asym_sam_1548_avg_reg_correction_rms vs run
χ² / ndf 1.057e+04 / 88
p0 1127 ± 0.858
1350
1300
1250
1200
1150
1100
1050
1000

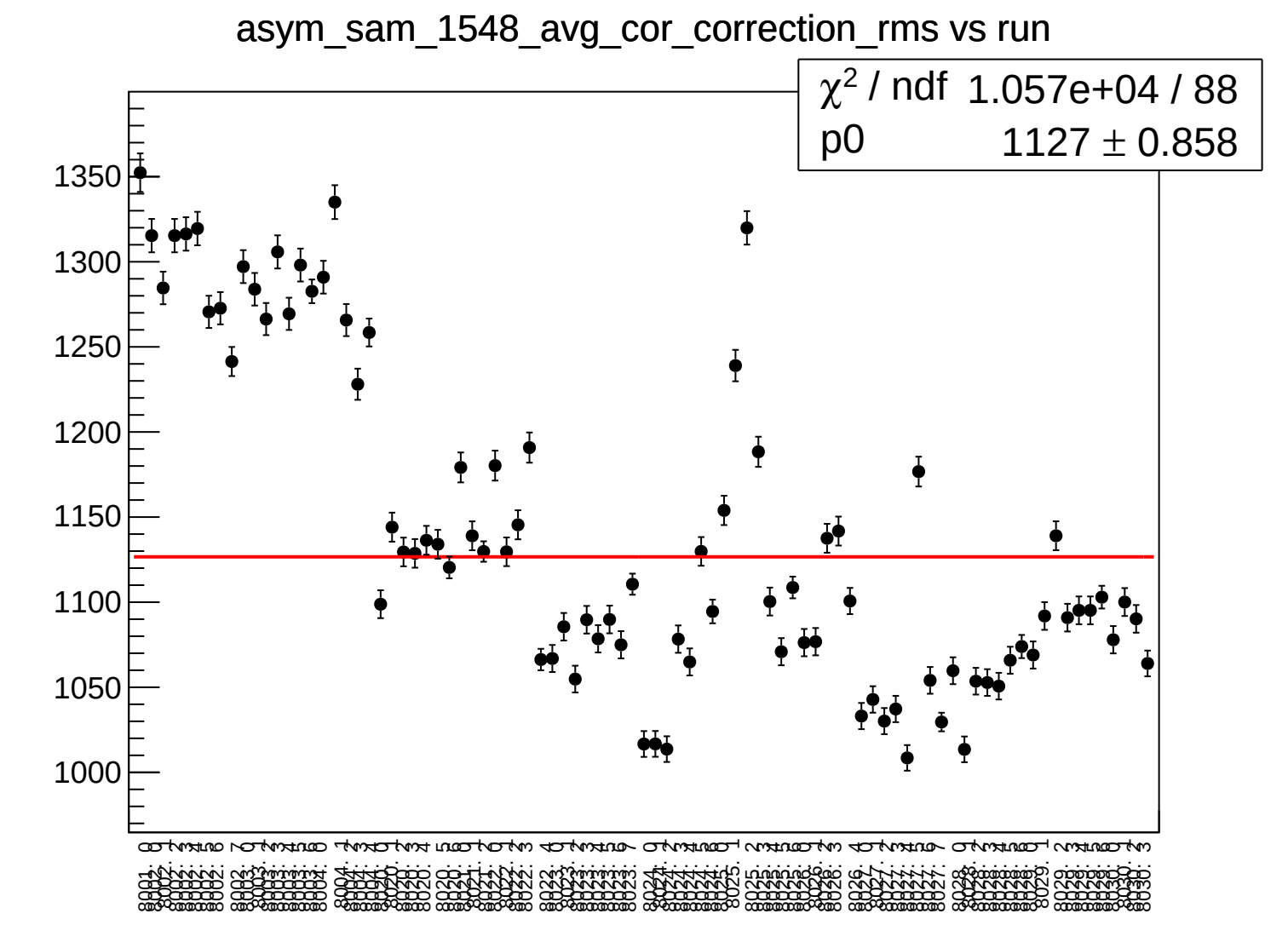

cor_asym_sam_1548_avg_mean vs run
χ² / ndf 85 / 88
p0 13.33 ± 108.2
pull
Entries 89
Mean −1128
Std Dev 0

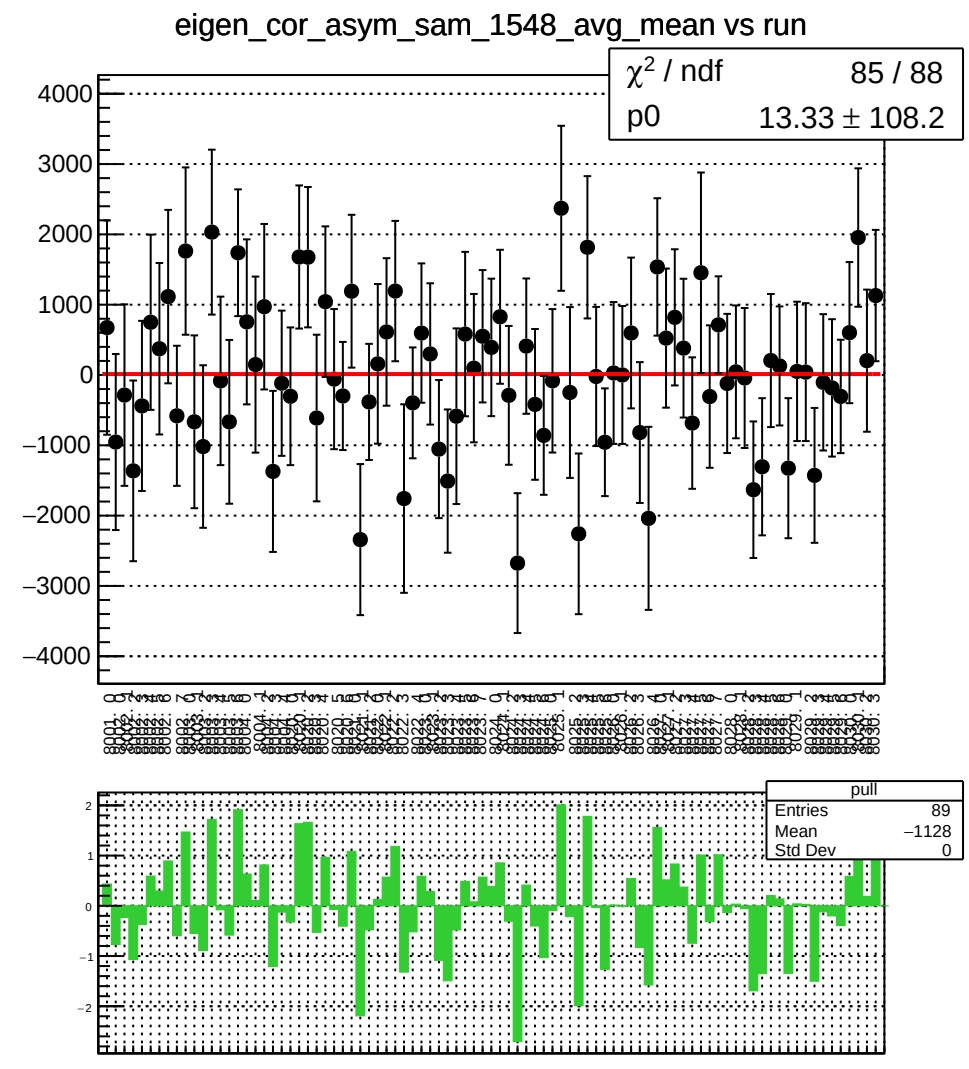

pull1D
Entries 89
Mean 0.001046
Std Dev 0.9773

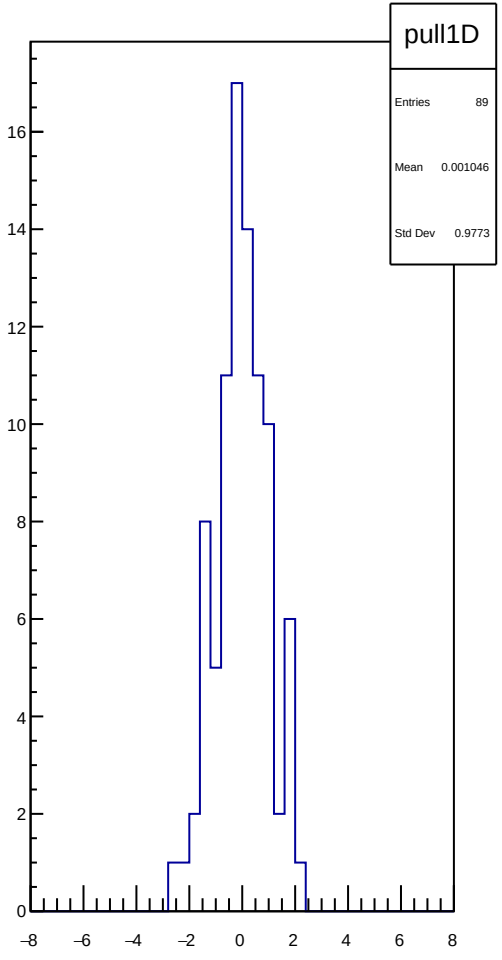

cor_asym_sam_1548_avg_rms vs run
χ² / ndf 1.792e+04 / 88
p0 100.2 ± 0.07651
140
130
120
110
100
90

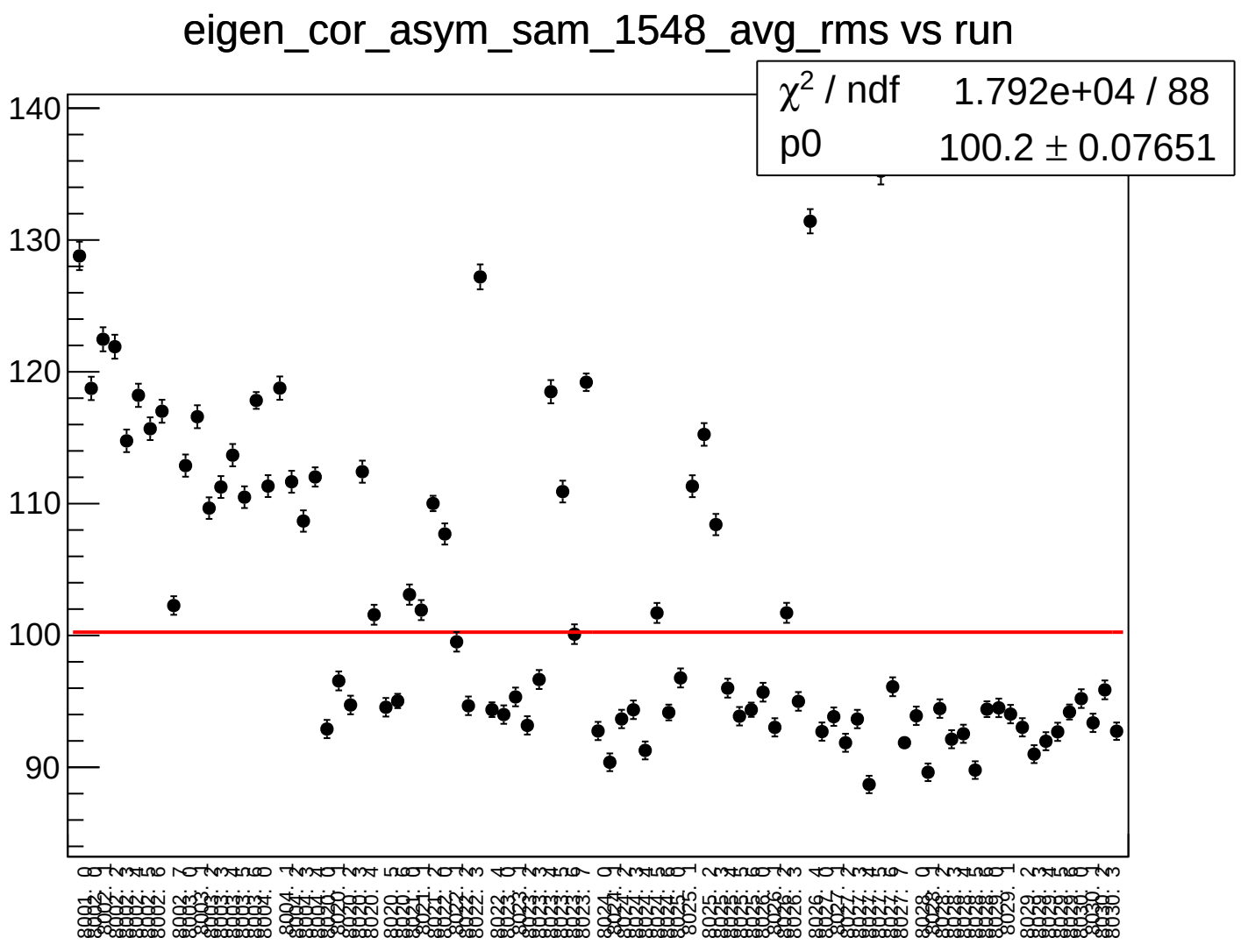

asym_sam_1548_avg_cor_correction_mean vs run
χ² / ndf 94.01 / 88
p0 612.9 ± 1213
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 206.3
Std Dev 0
3
2
1
0
−1
−2

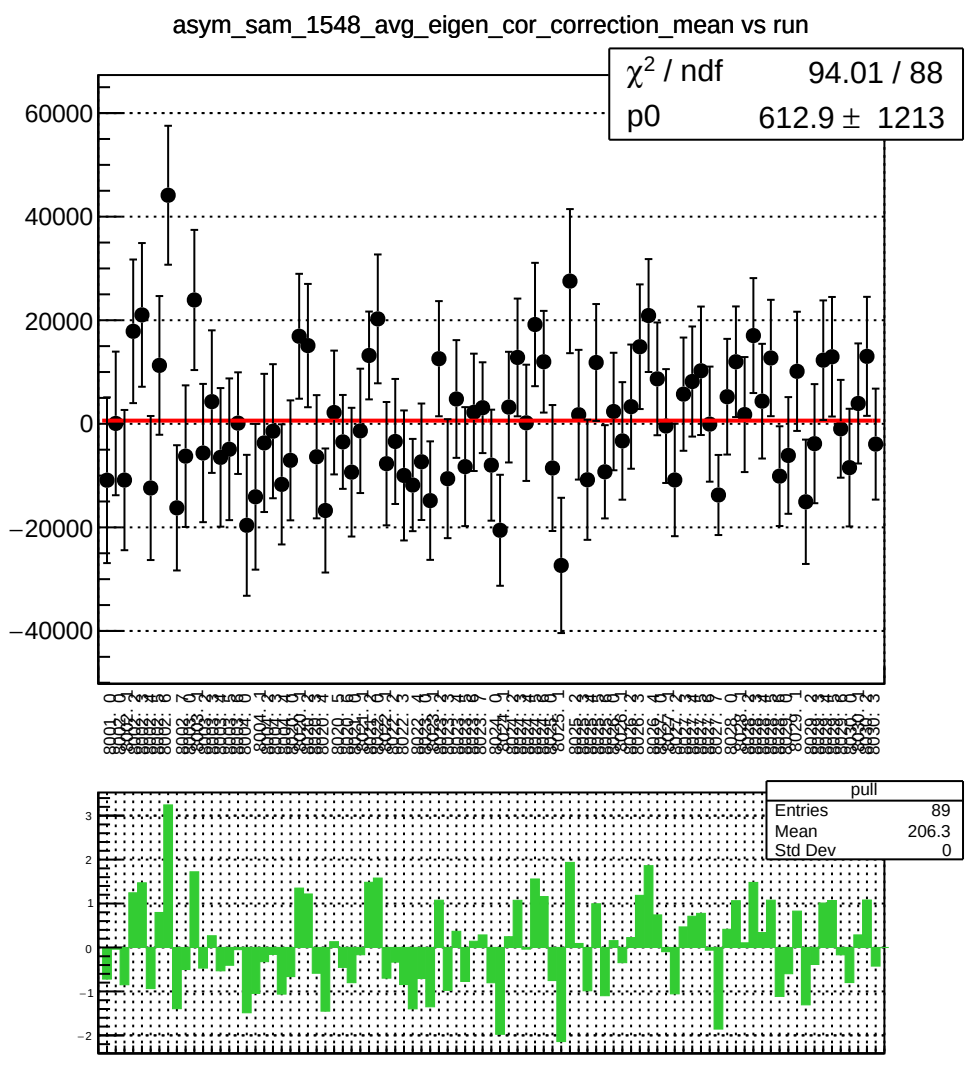

pull1D
Entries 89
Mean 0.01303
Std Dev 1.028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

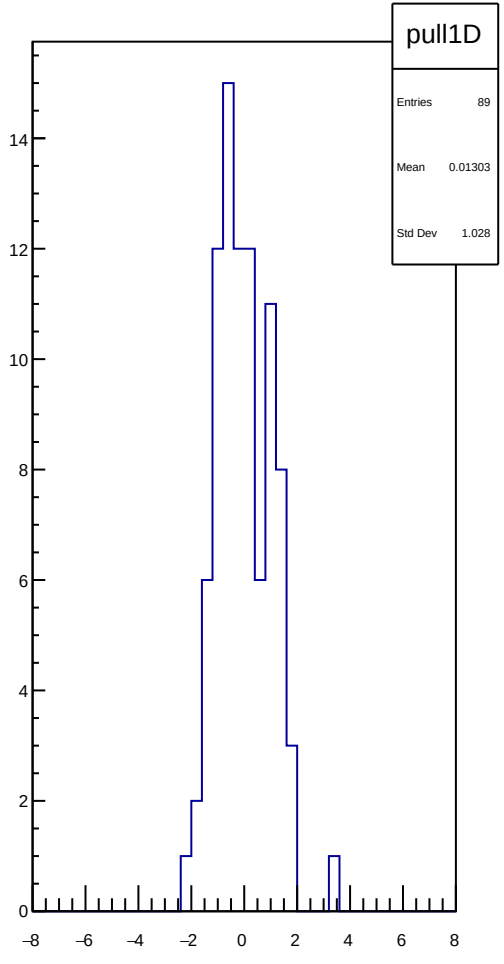

asym_sam_1548_avg_cor_correction_rms vs run
χ² / ndf 1.057e+04 / 88
p0 1127 ± 0.858
1350
1300
1250
1200
1150
1100
1050
1000

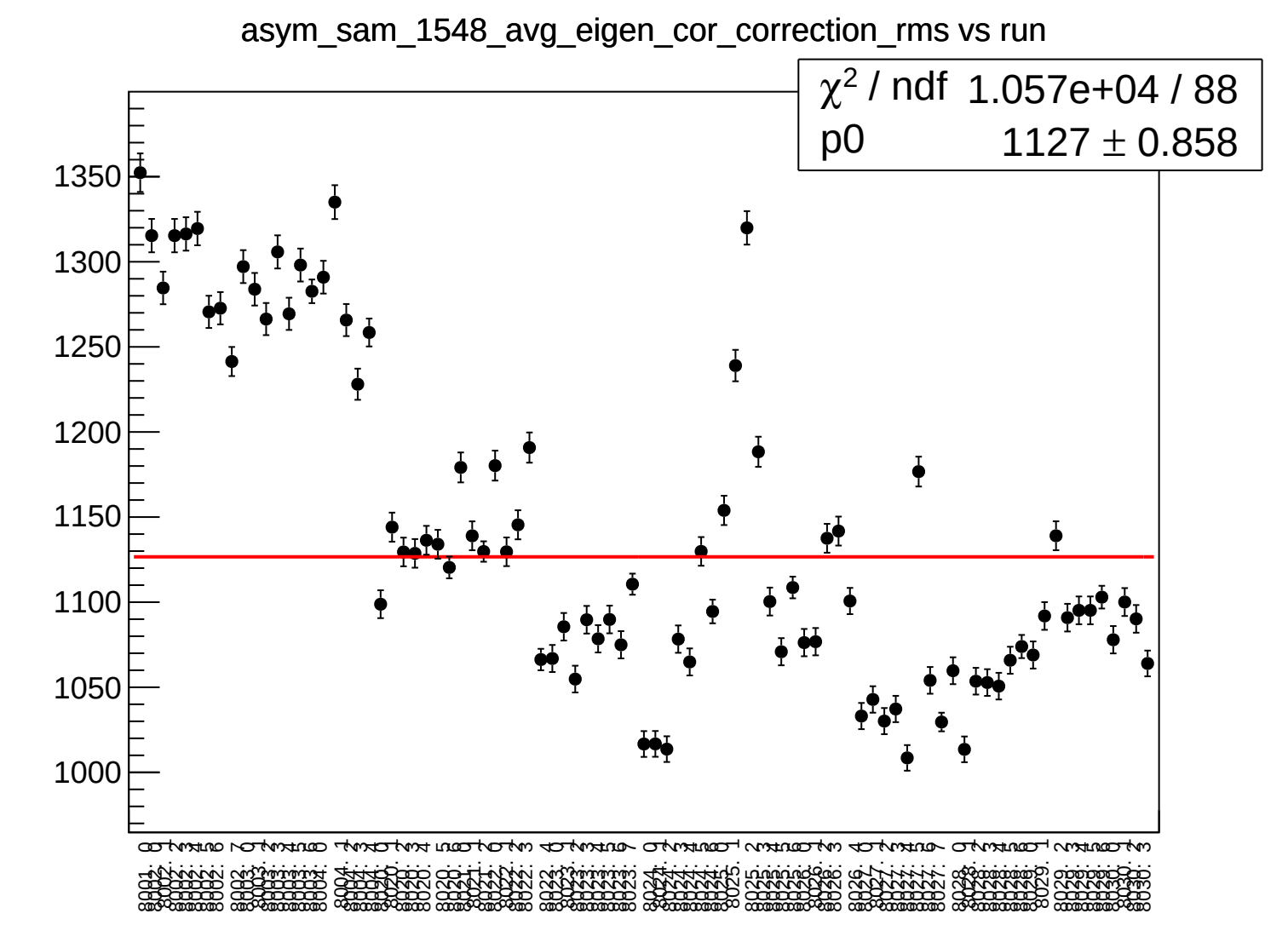

eigen_cor_asym_sam_1548_avg_mean vs run
χ² / ndf 85 / 88
p0 13.33 ± 108.2
pull
Entries 89
Mean −1128
Std Dev 0

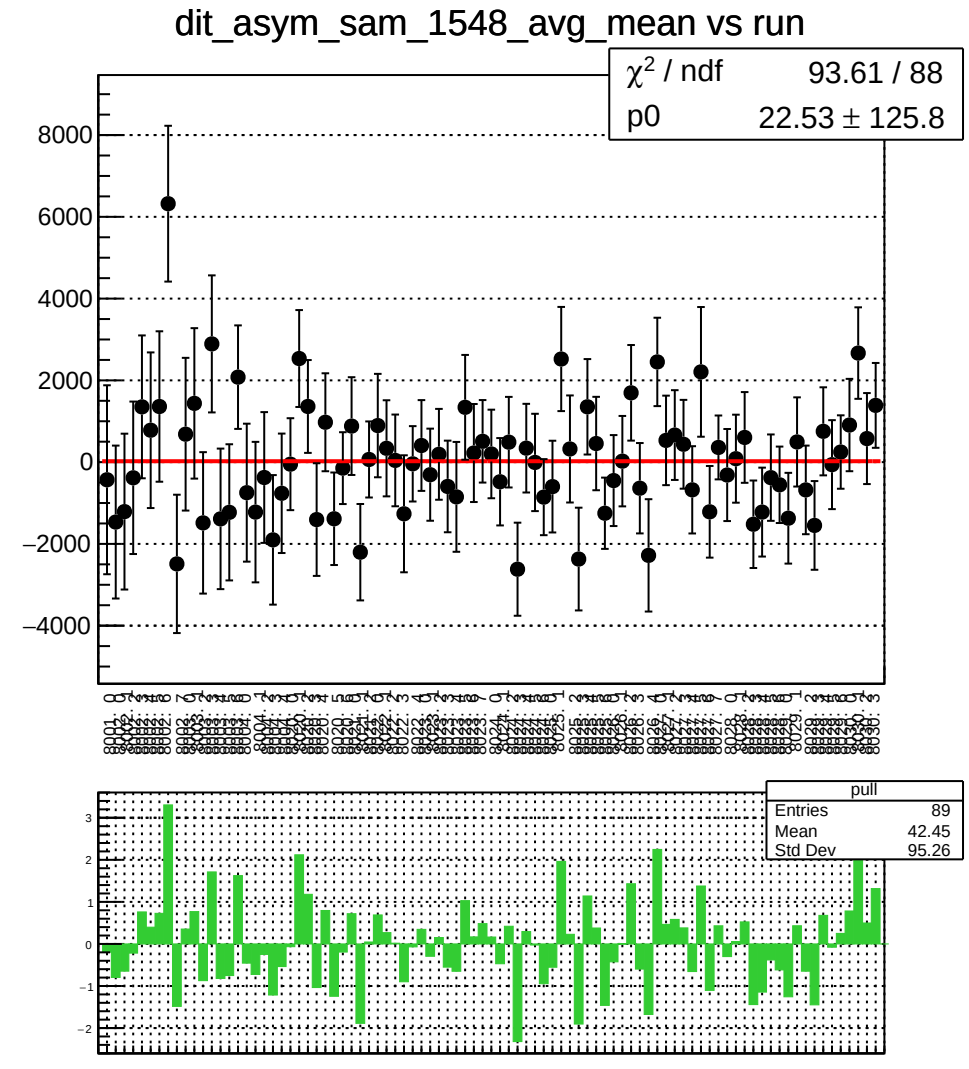

pull1D
Entries 89
Mean 0.001046
Std Dev 0.9773

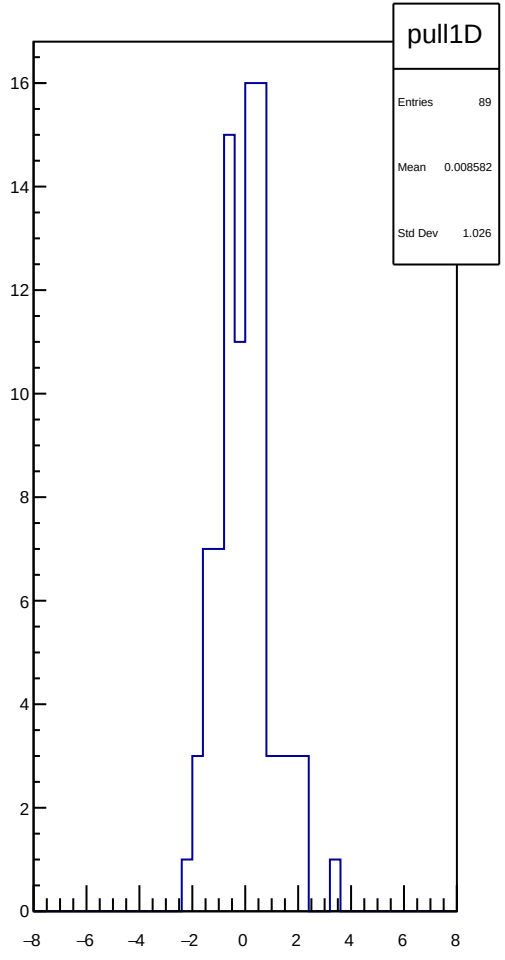

eigen_cor_asym_sam_1548_avg_rms vs run
χ² / ndf 1.792e+04 / 88
p0 100.2 ± 0.07651
140
130
120
110
100
90

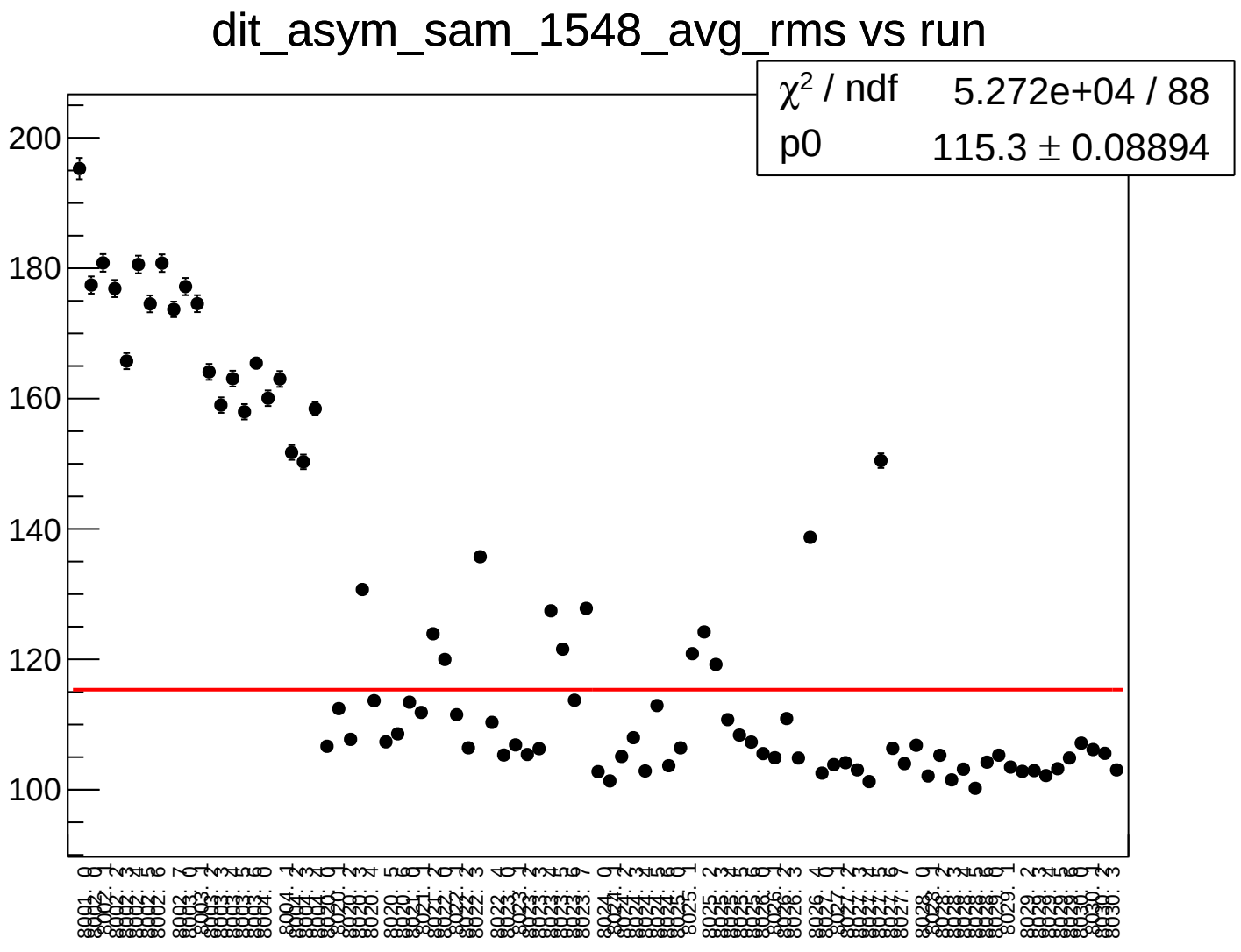

asym_sam_1548_avg_eigen_cor_correction_mean vs run
χ² / ndf 94.01 / 88
p0 612.9 ± 1213
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 206.3
Std Dev 0
3
2
1
0
−1
−2

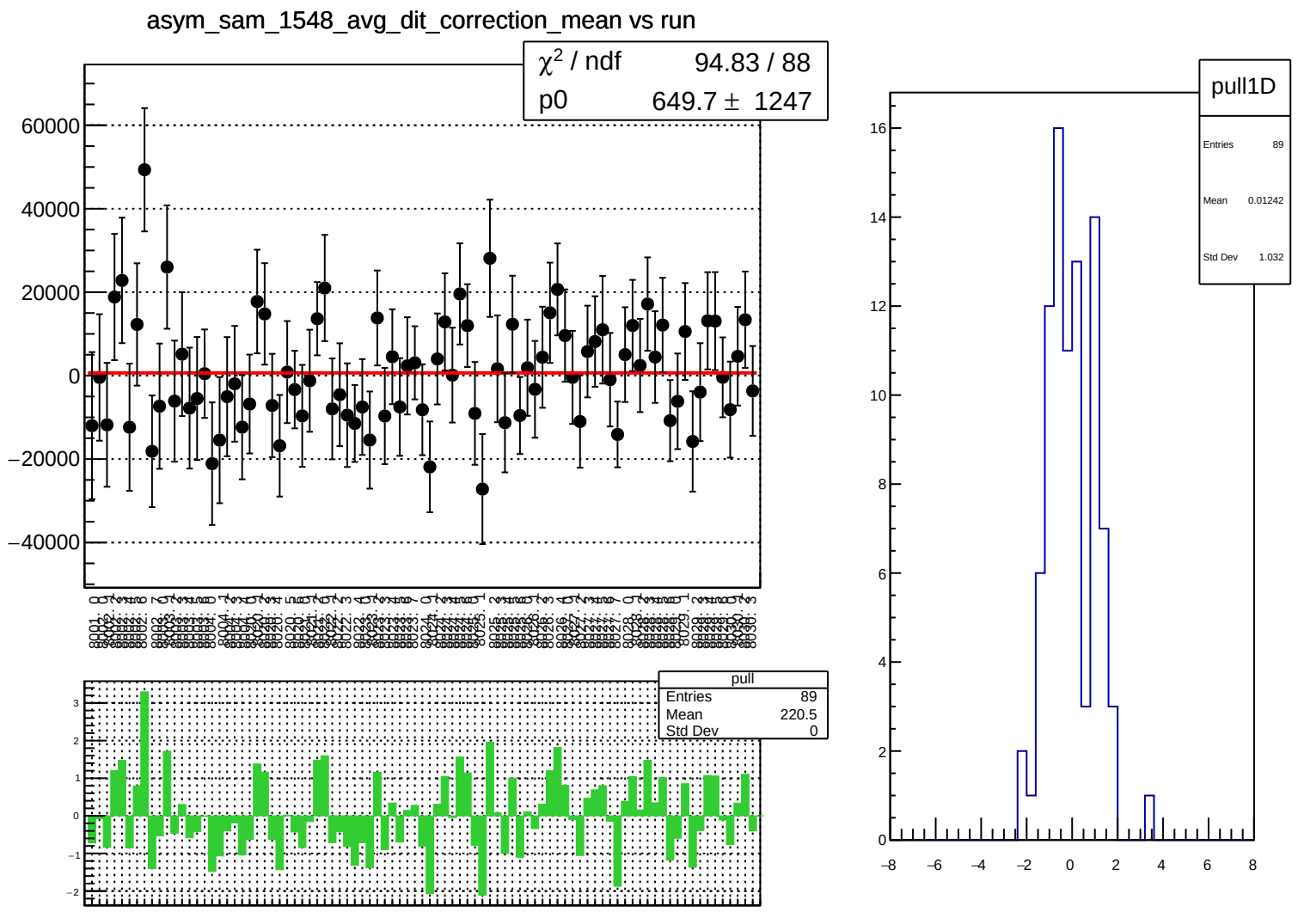

pull1D
Entries 89
Mean 0.01303
Std Dev 1.028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

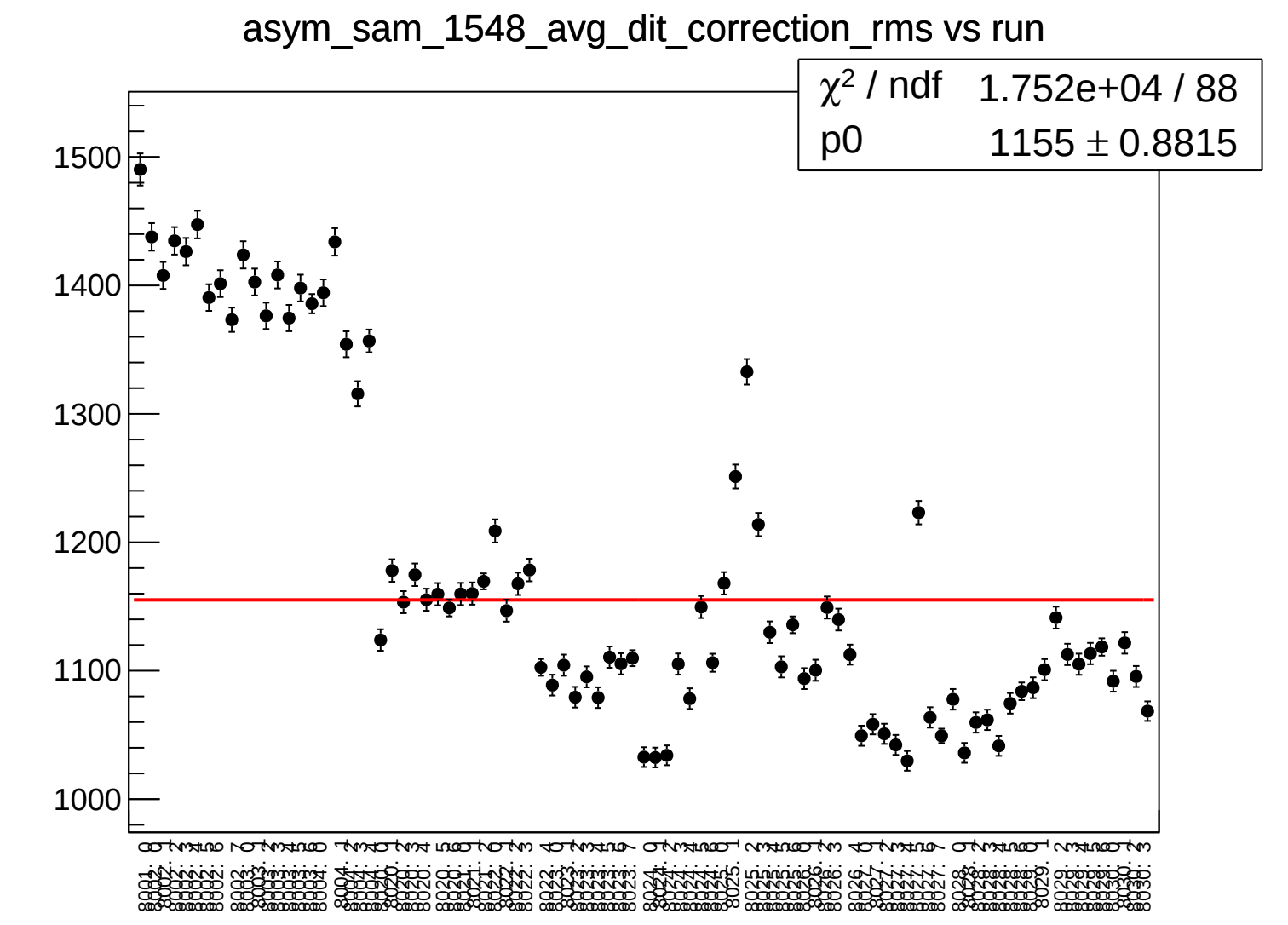

asym_sam_1548_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.057e+04 / 88
p0 1127 ± 0.858
1350
1300
1250
1200
1150
1100
1050
1000

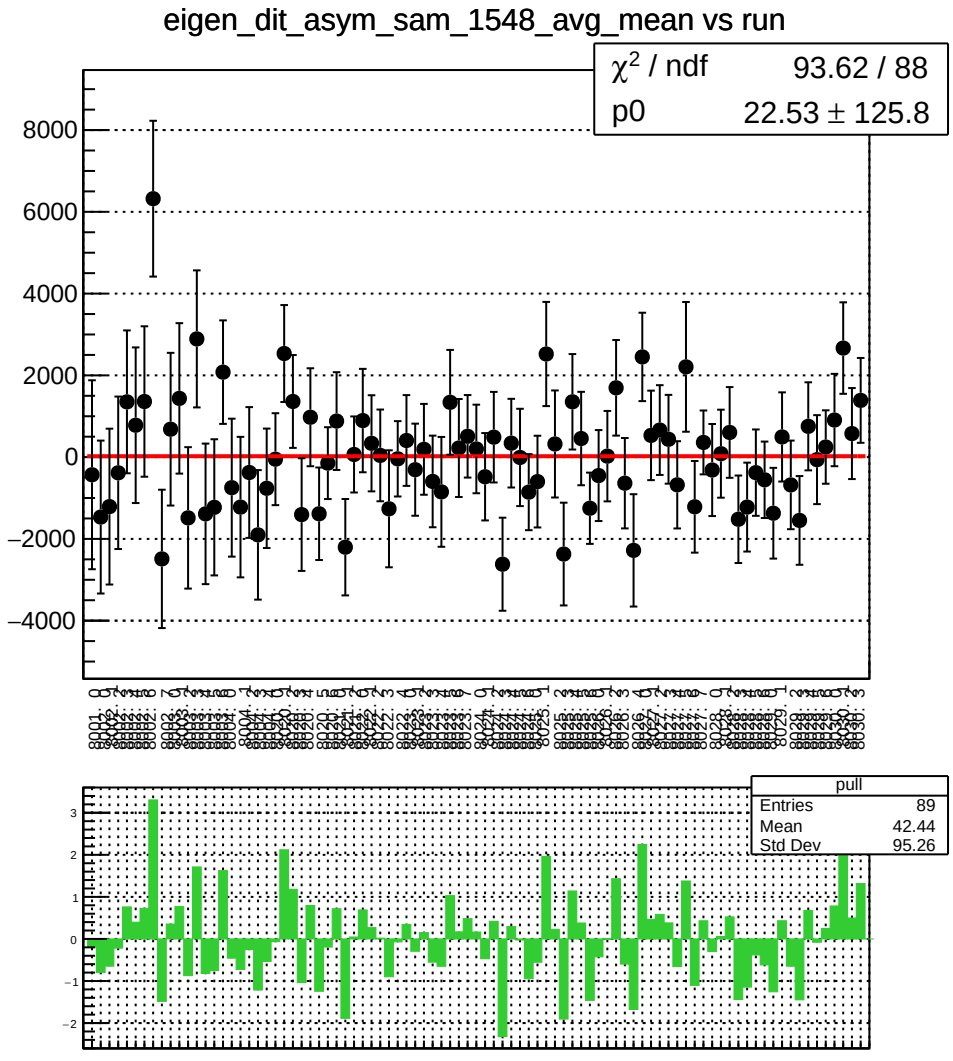

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 93.61 / 88
p0 22.53 ± 125.8
8000
6000
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 42.45
Std Dev 95.26
3
2
1
0
−1
−2

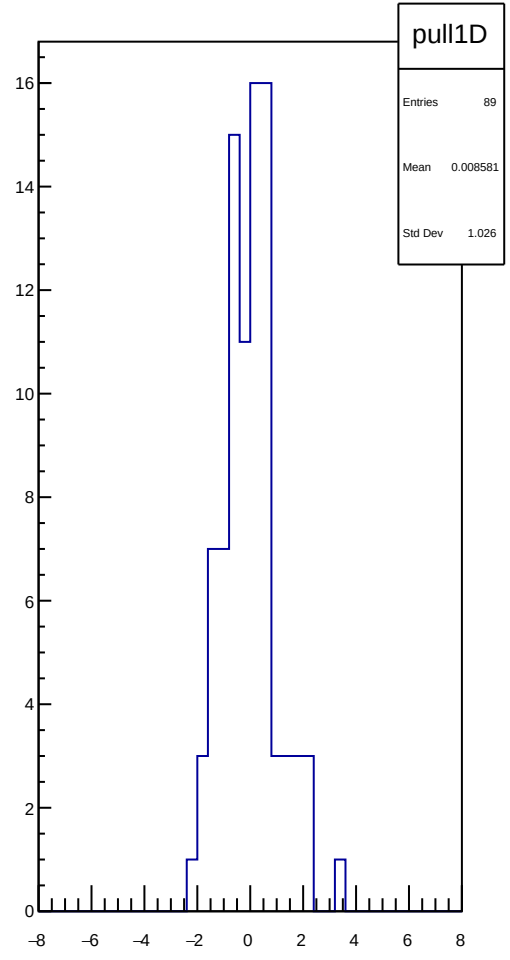

pull1D
Entries 89
Mean 0.008582
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

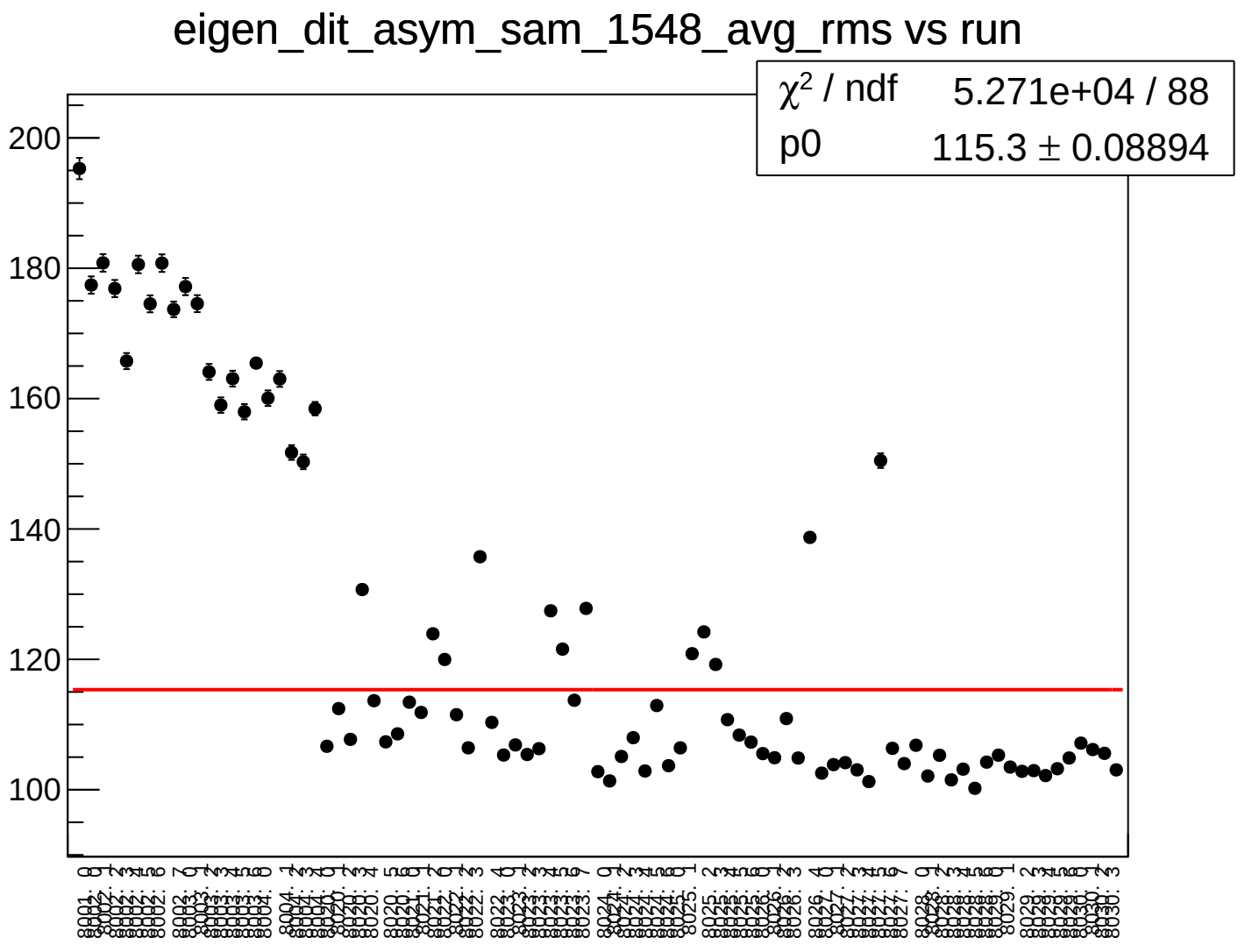

dit_asym_sam_1548_avg_rms vs run
χ² / ndf 5.272e+04 / 88
p0 115.3 ± 0.08894
200
180
160
140
120
100

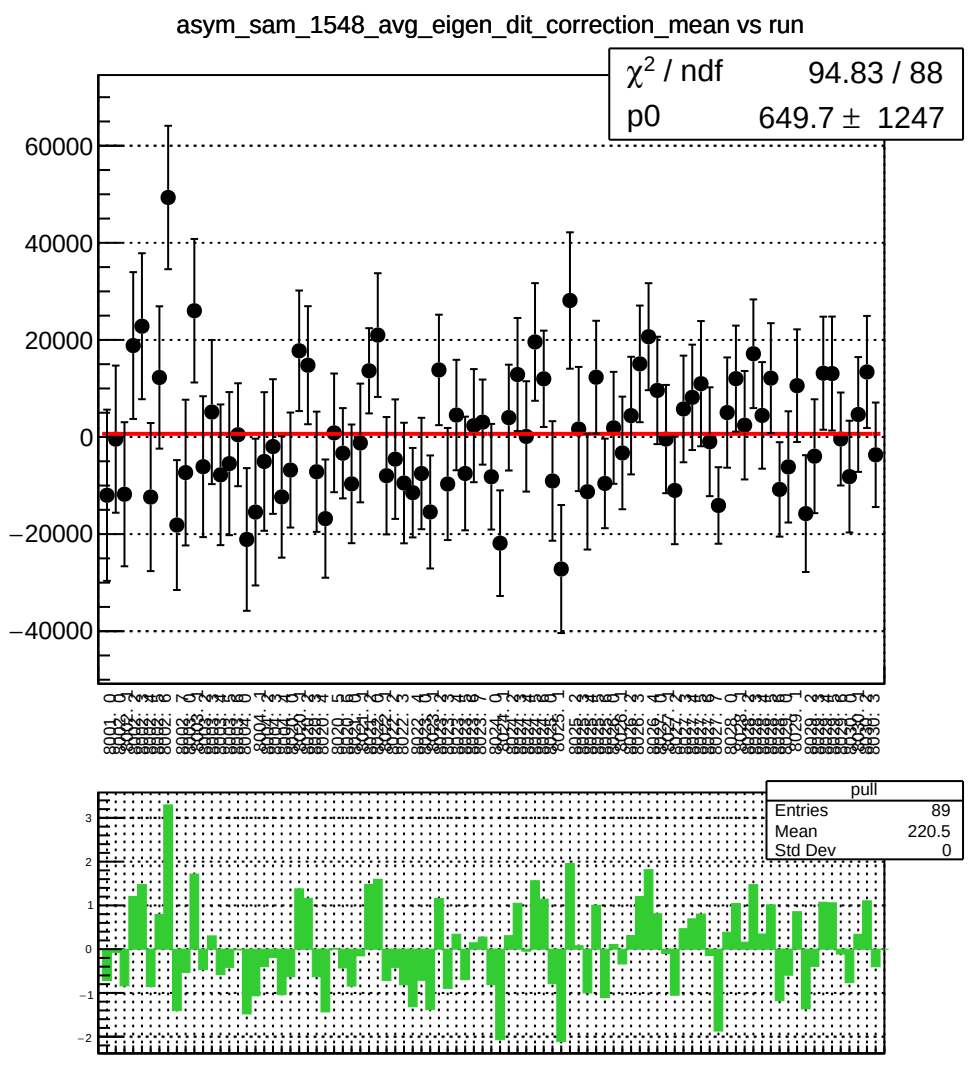

asym_sam_1548_avg_dit_correction_mean vs run
χ² / ndf 94.83 / 88
p0 649.7 ± 1247
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 220.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.01242
Std Dev 1.032
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

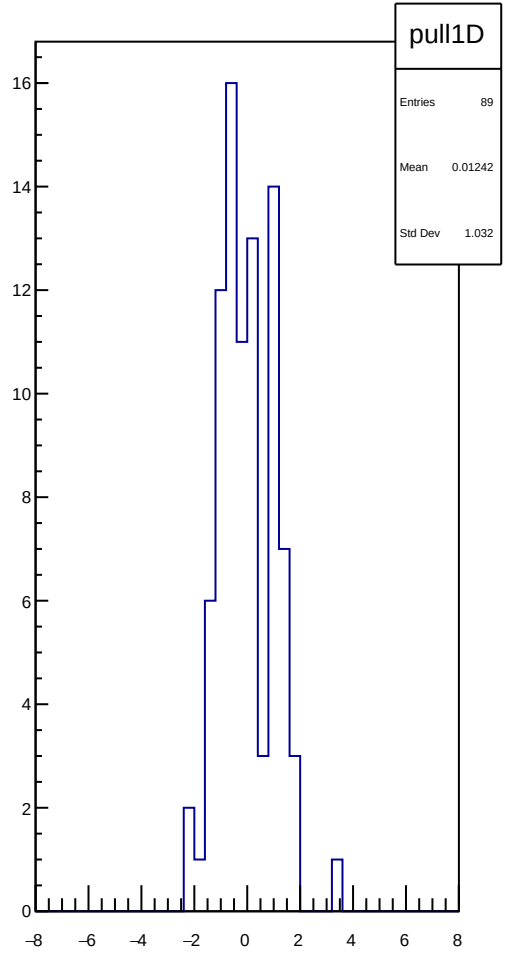

asym_sam_1548_avg_dit_correction_rms vs run
χ² / ndf 1.752e+04 / 88
p0 1155 ± 0.8815
1500
1400
1300
1200
1100
1000

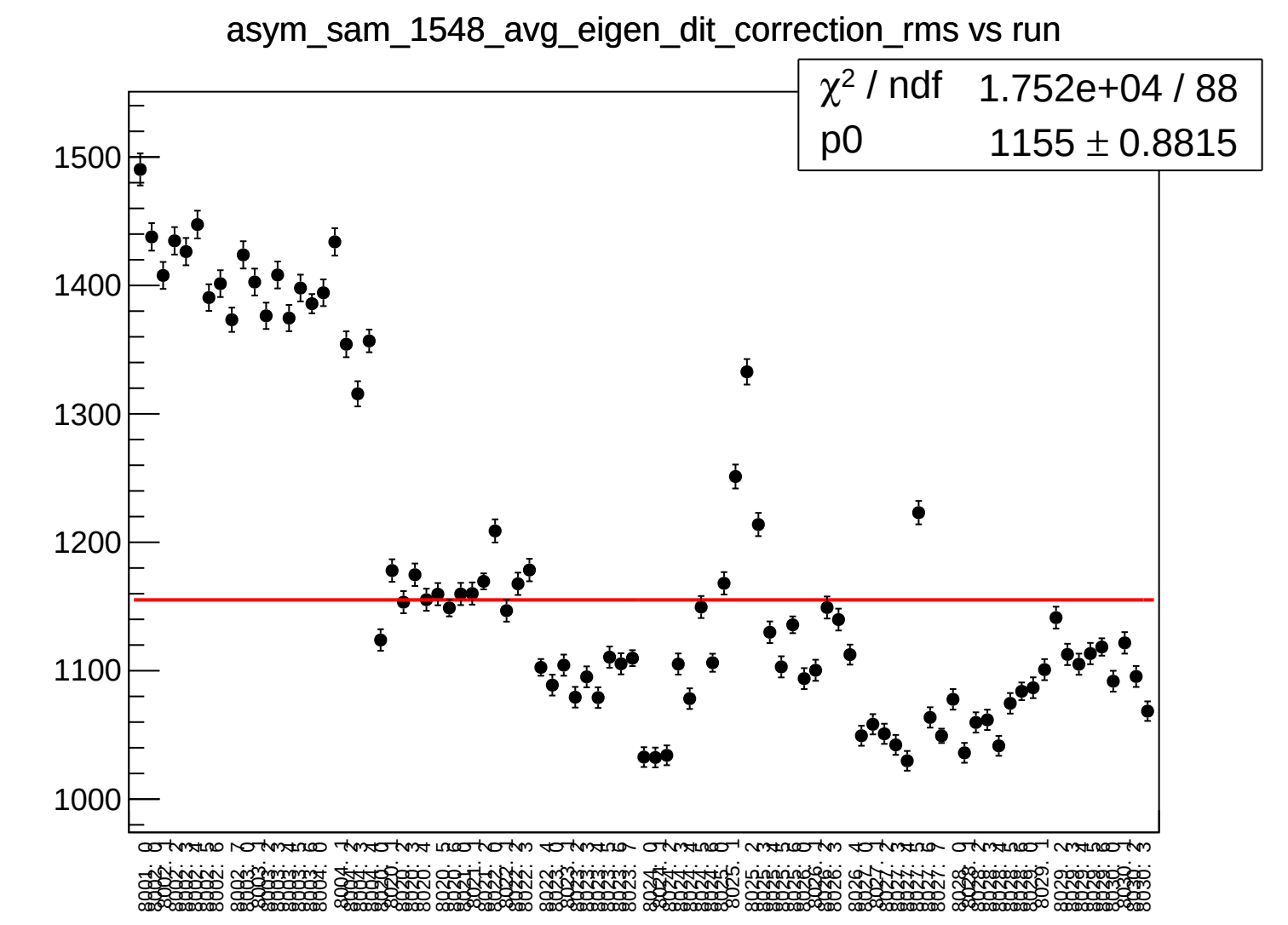

eigen_dit_asym_sam_1548_avg_mean vs run
χ² / ndf 93.62 / 88
p0 22.53 ± 125.8
8000
6000
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 42.44
Std Dev 95.26
3
2
1
0
−1
−2

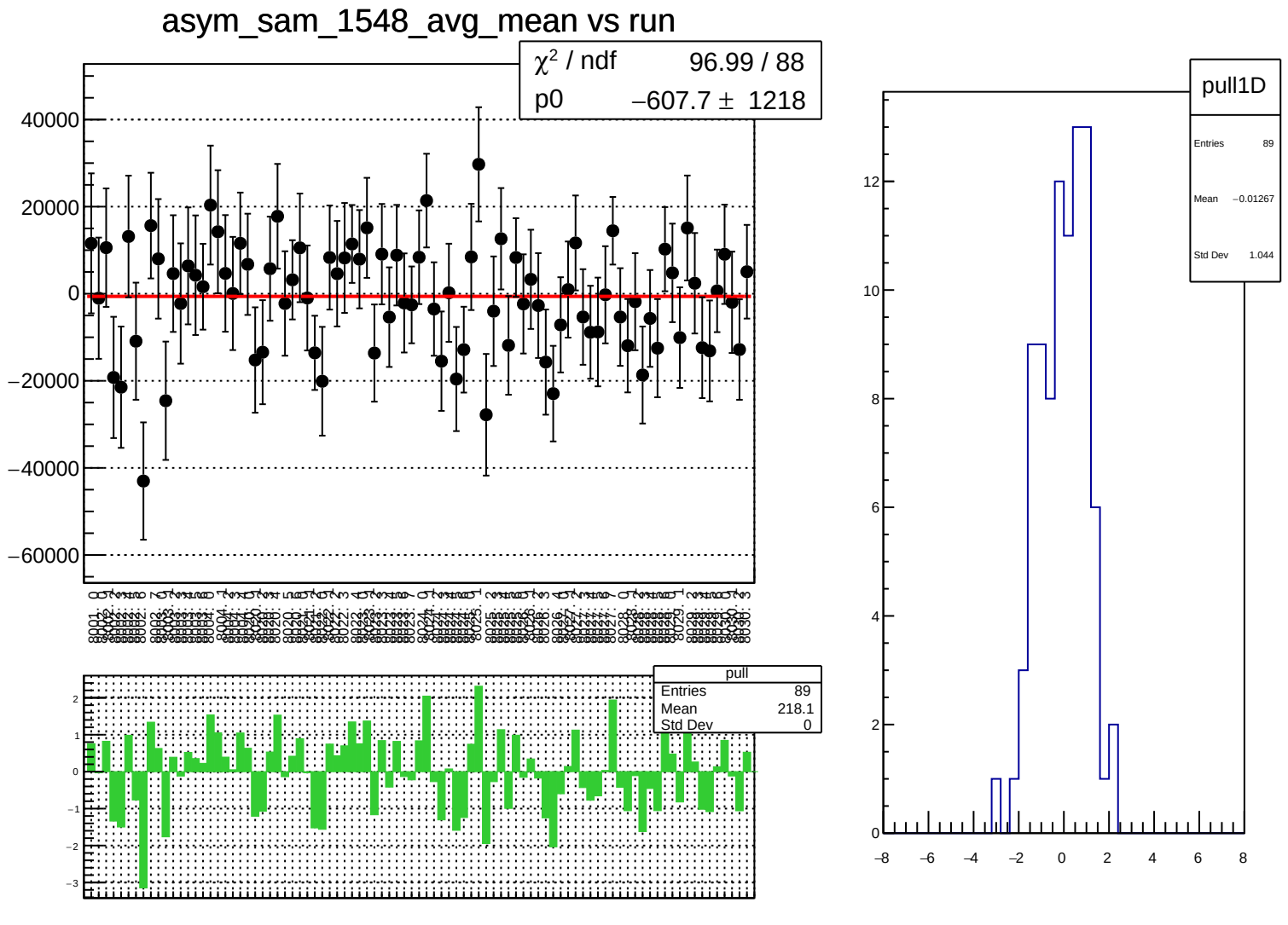

pull1D
Entries 89
Mean 0.008581
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

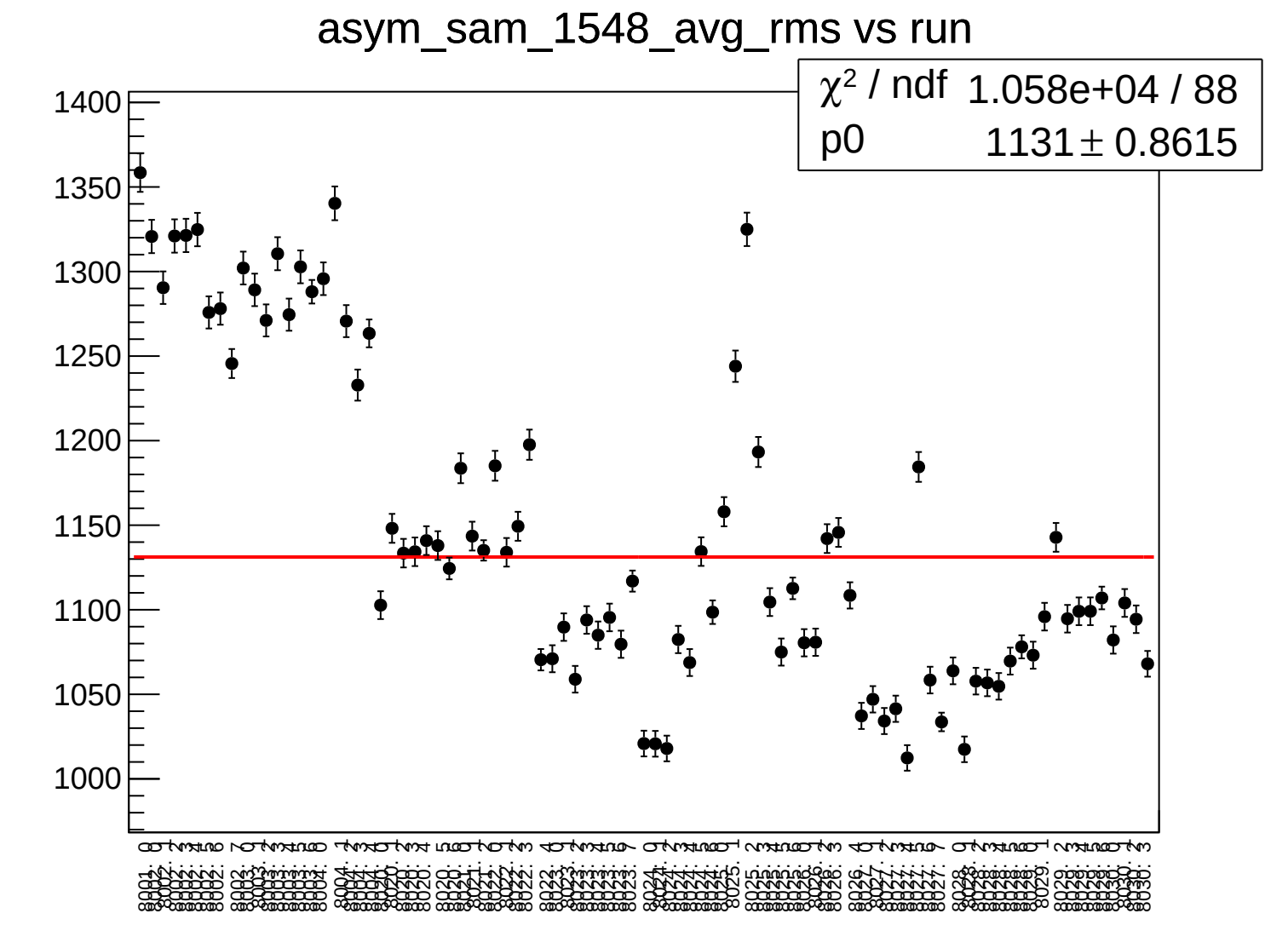

eigen_dit_asym_sam_1548_avg_rms vs run
χ^2 / ndf 5.271e+04 / 88
p0 115.3 ± 0.08894
200
180
160
140
120
100

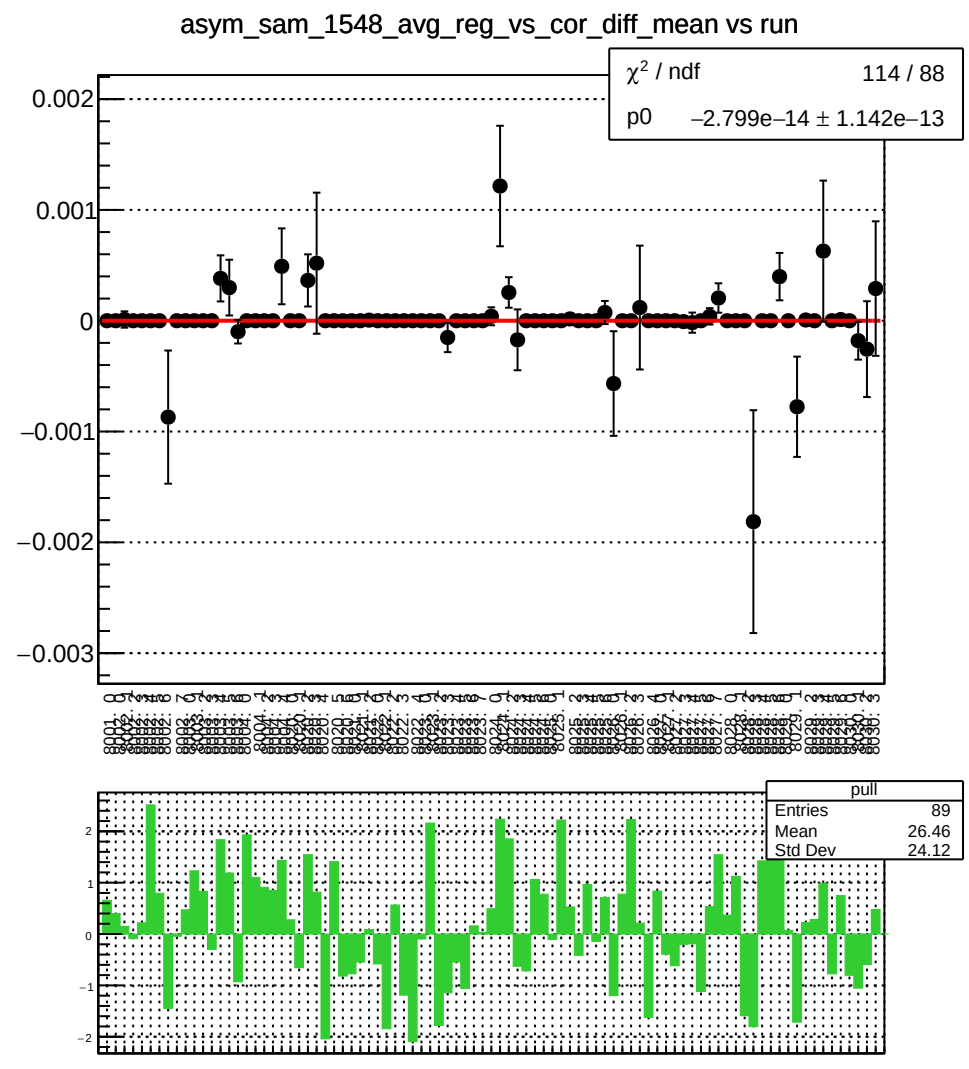

asym_sam_1548_avg_eigen_dit_correction_mean vs run
χ² / ndf 94.83 / 88
p0 649.7 ± 1247
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 220.5
Std Dev 0
3
2
1
0
−1
−2

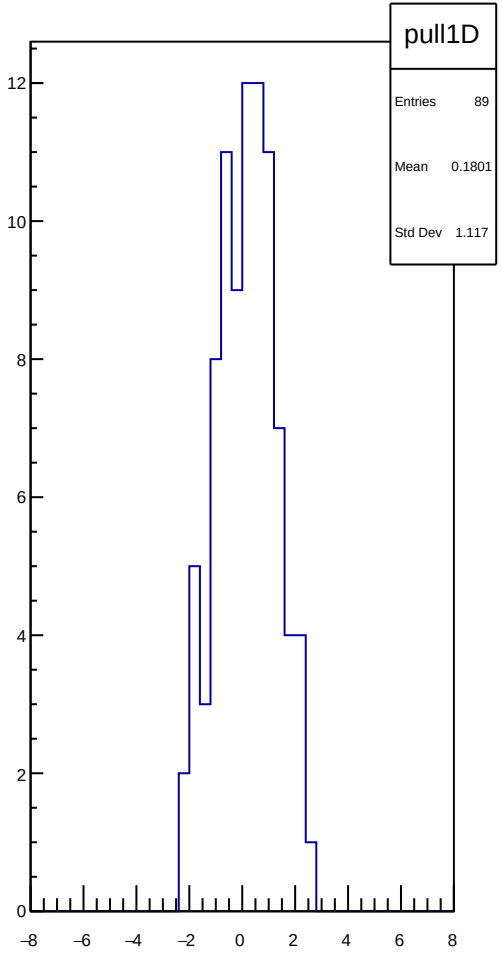

pull1D
Entries 89
Mean 0.01242
Std Dev 1.032
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

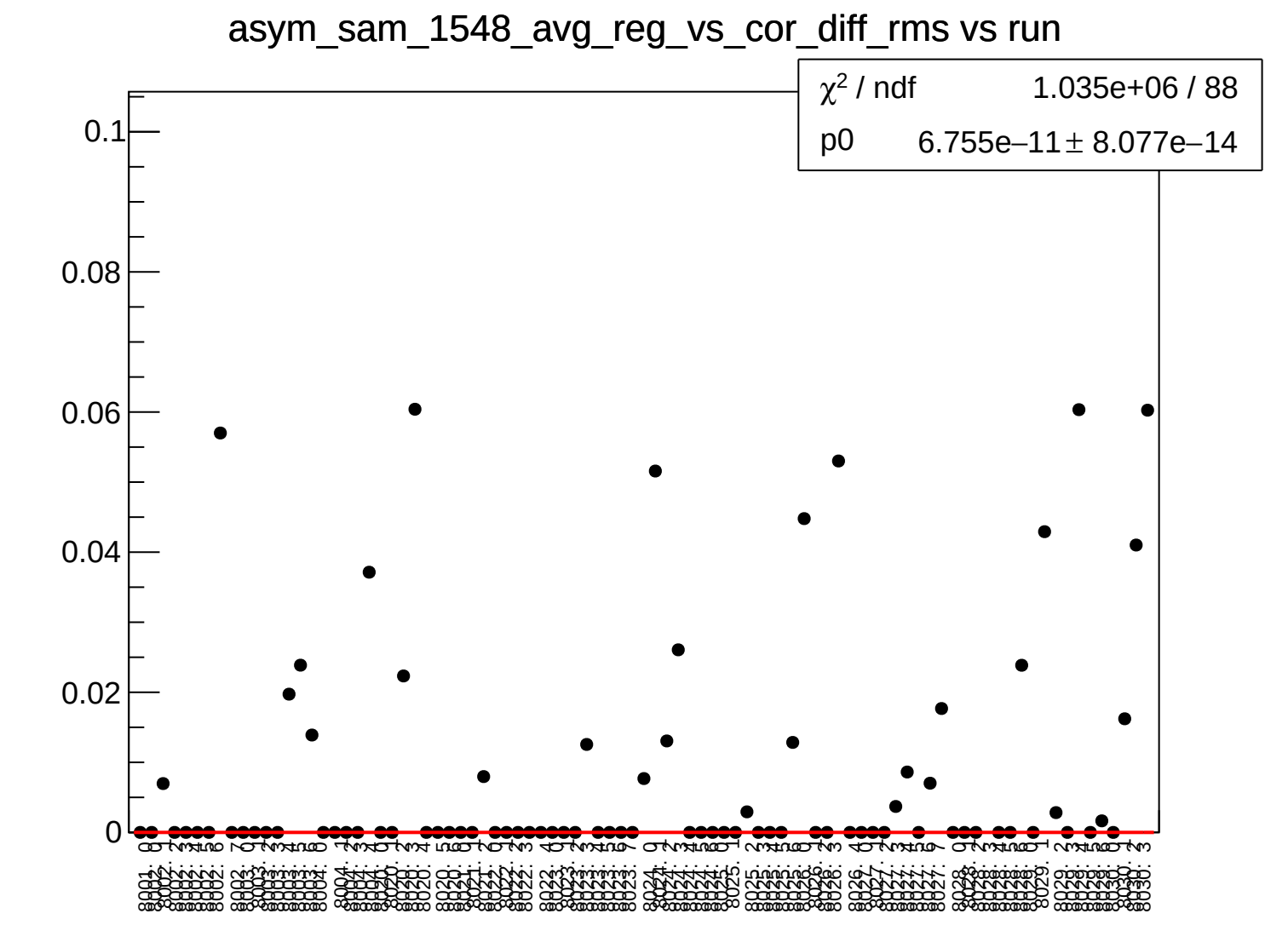

asym_sam_1548_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.752e+04 / 88
p0 1155 ± 0.8815
1500
1400
1300
1200
1100
1000

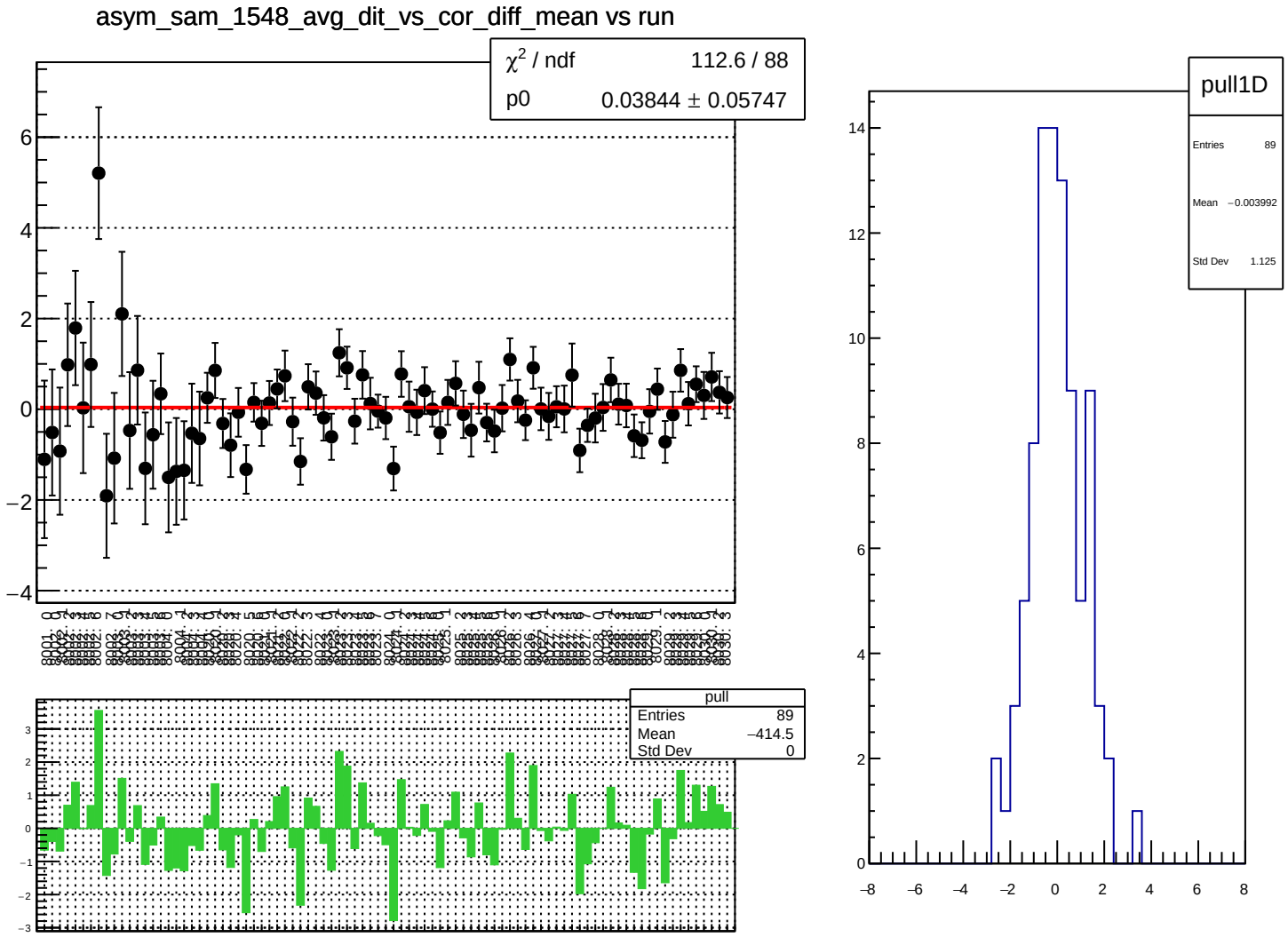

asym_sam_1548_avg_mean vs run
χ² / ndf 96.99 / 88
p0 −607.7 ± 1218
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 218.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.01267
Std Dev 1.044
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

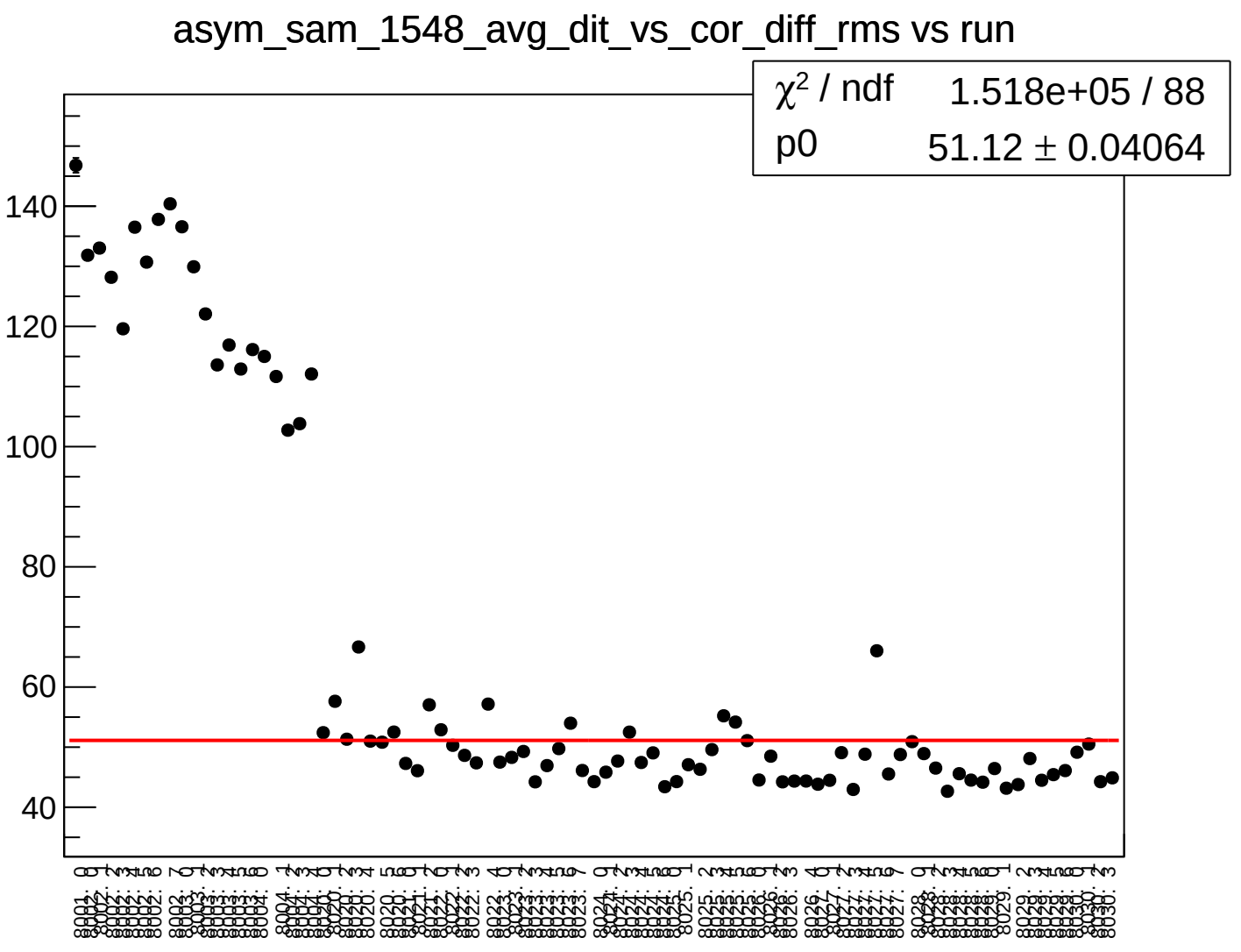

asym_sam_1548_avg_rms vs run
χ² / ndf 1.058e+04 / 88
p0 1131 ± 0.8615
1400
1350
1300
1250
1200
1150
1100
1050
1000

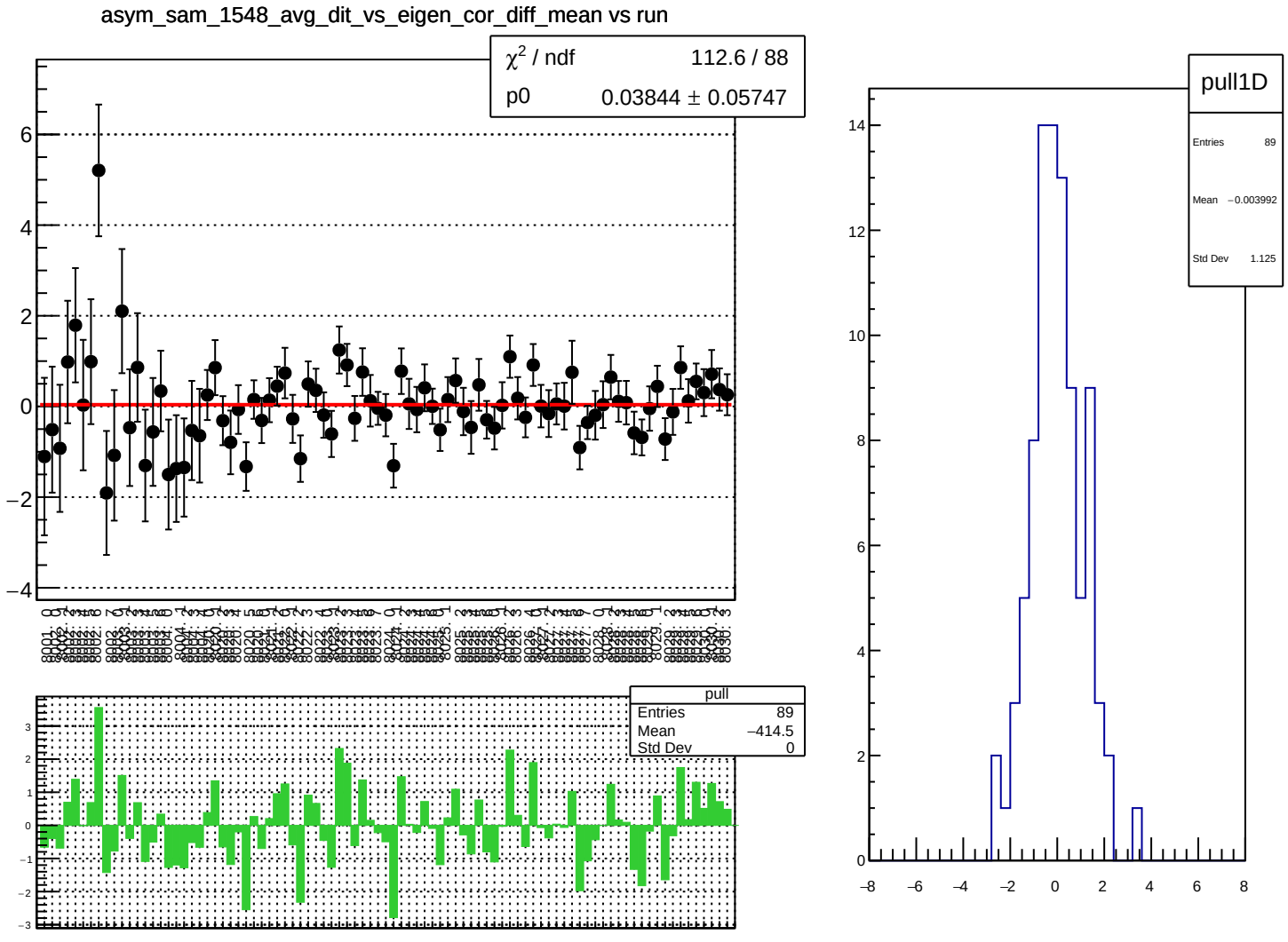

asym_sam_1548_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 114 / 88
p0 −2.799e−14 ± 1.142e−13
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 89
Mean 26.46
Std Dev 24.12
2
1
0
−1
−2

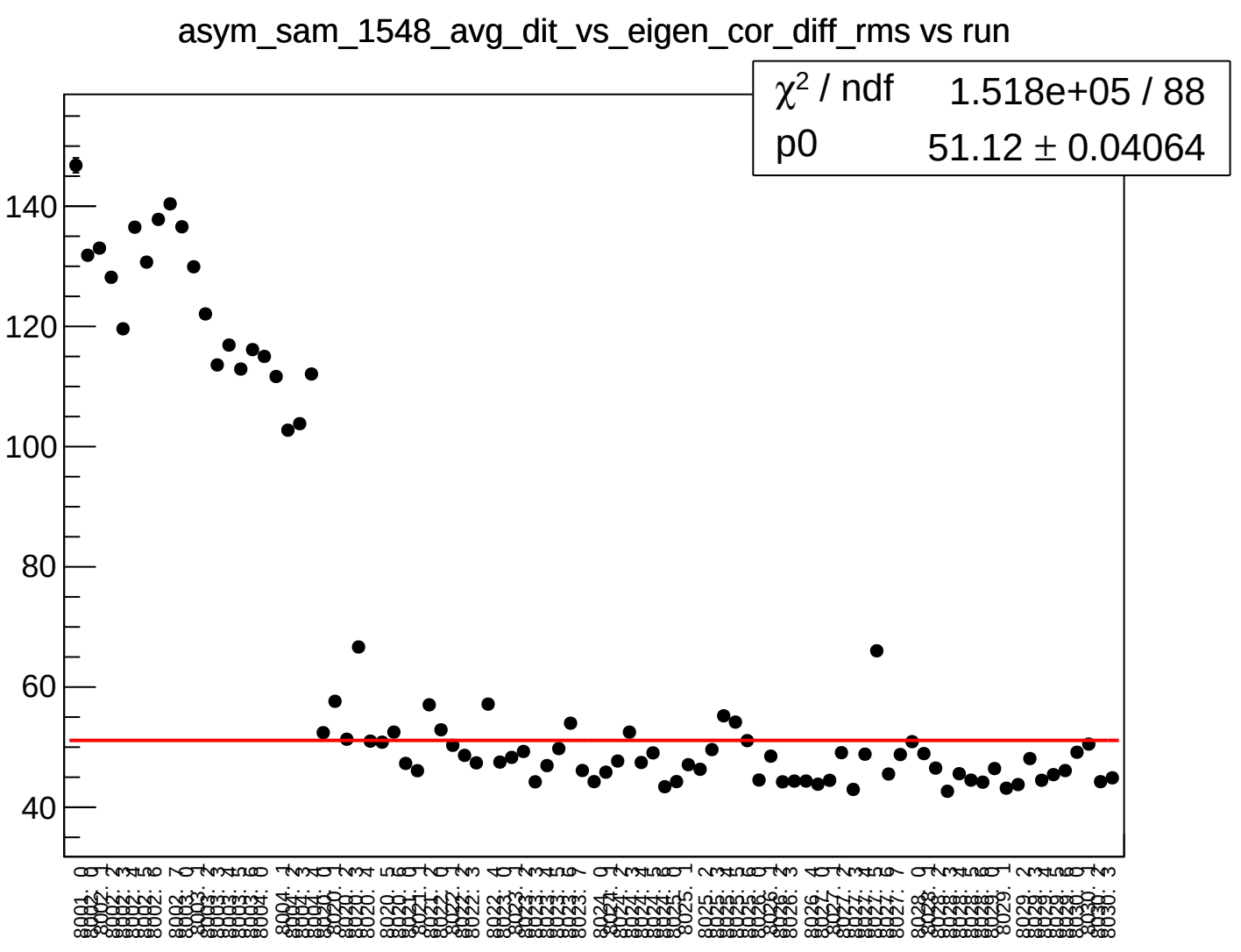

pull1D
Entries 89
Mean 0.1801
Std Dev 1.117
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

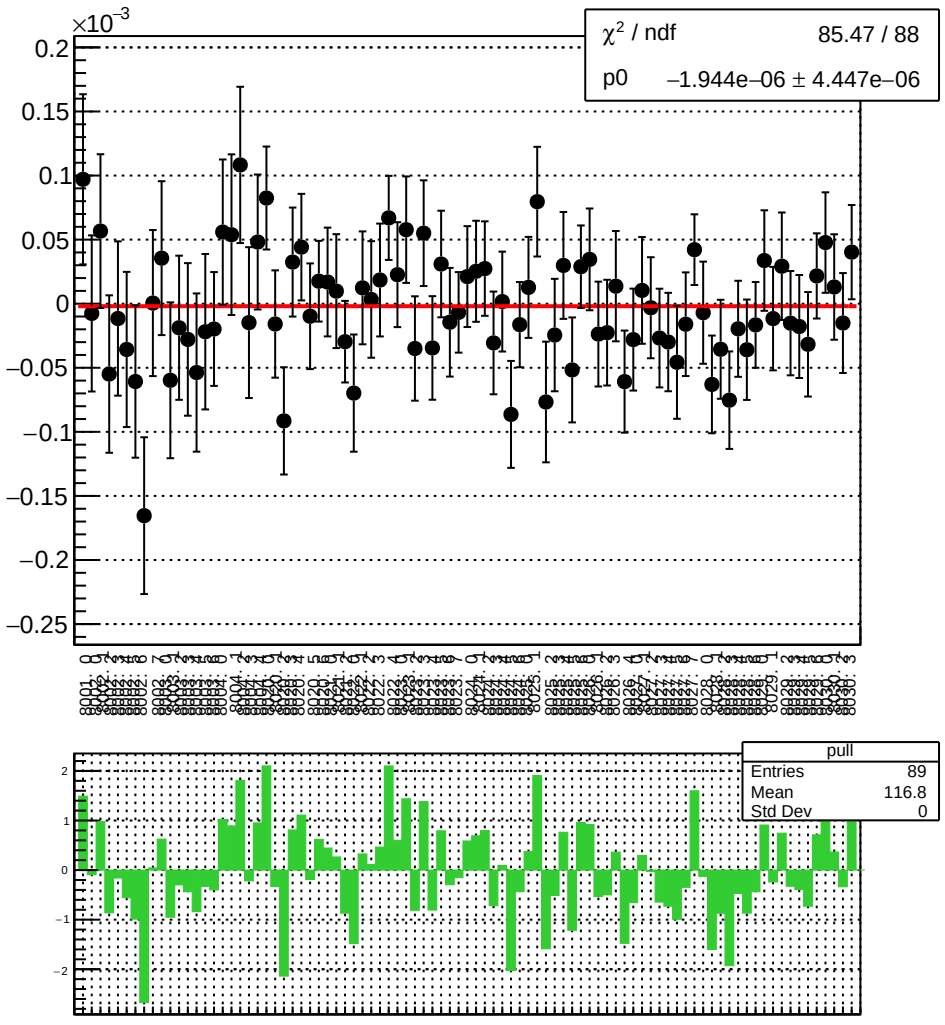

asym_sam_1548_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.035e+06 / 88
p0 6.755e−11 ± 8.077e−14
0.1
0.08
0.06
0.04
0.02
0

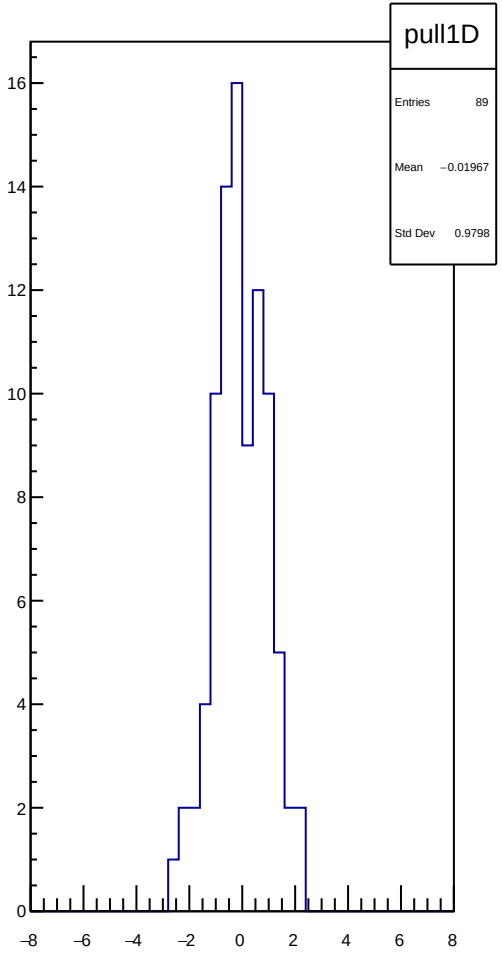

asym_sam_1548_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 112.6 / 88
p0 0.03844 ± 0.05747
pull
Entries 89
Mean −414.5
Std Dev 0
pull1D
Entries 89
Mean −0.003992
Std Dev 1.125

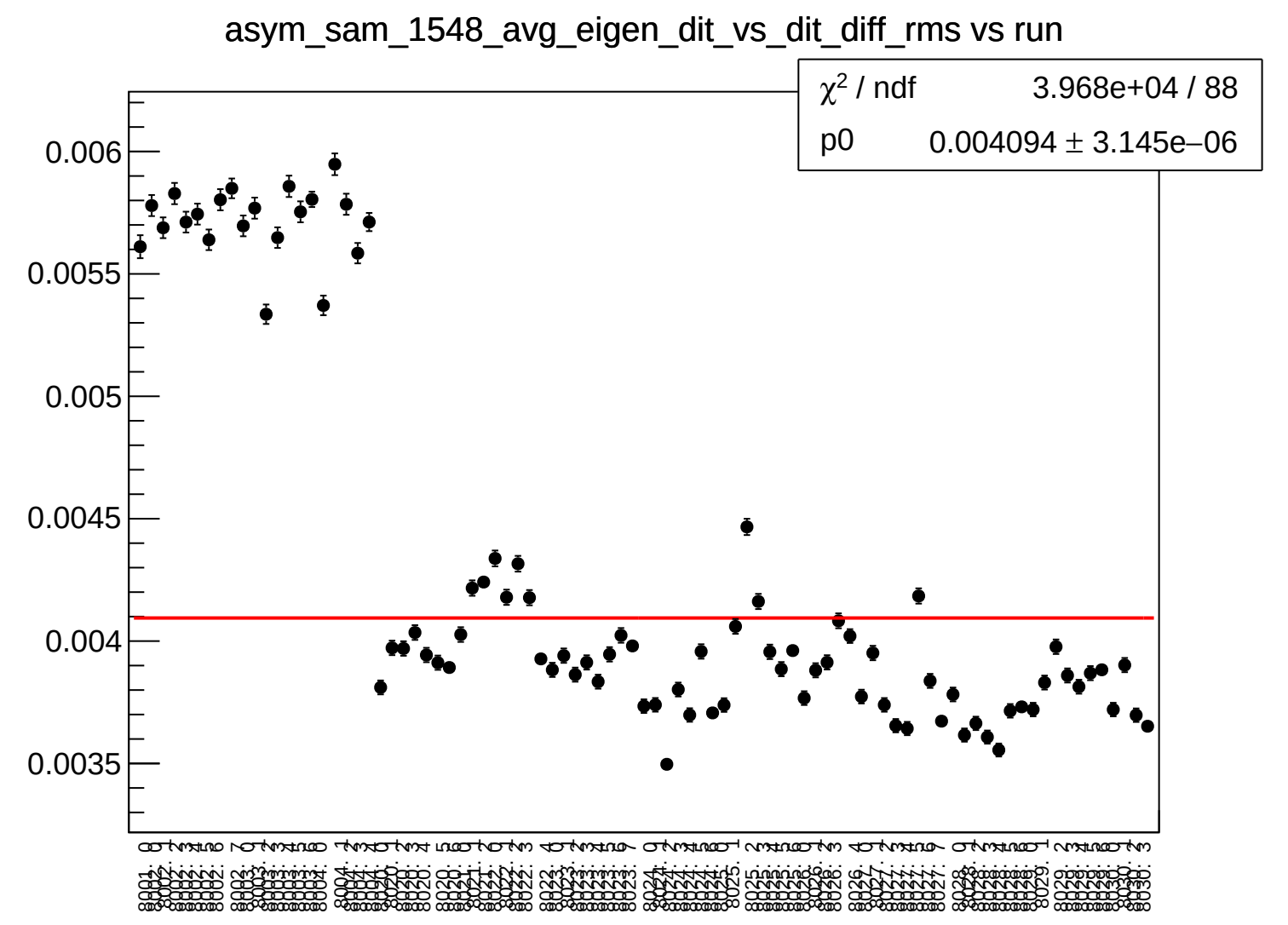

asym_sam_1548_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.518e+05 / 88
p0 51.12 ± 0.04064
140
120
100
80
60
40

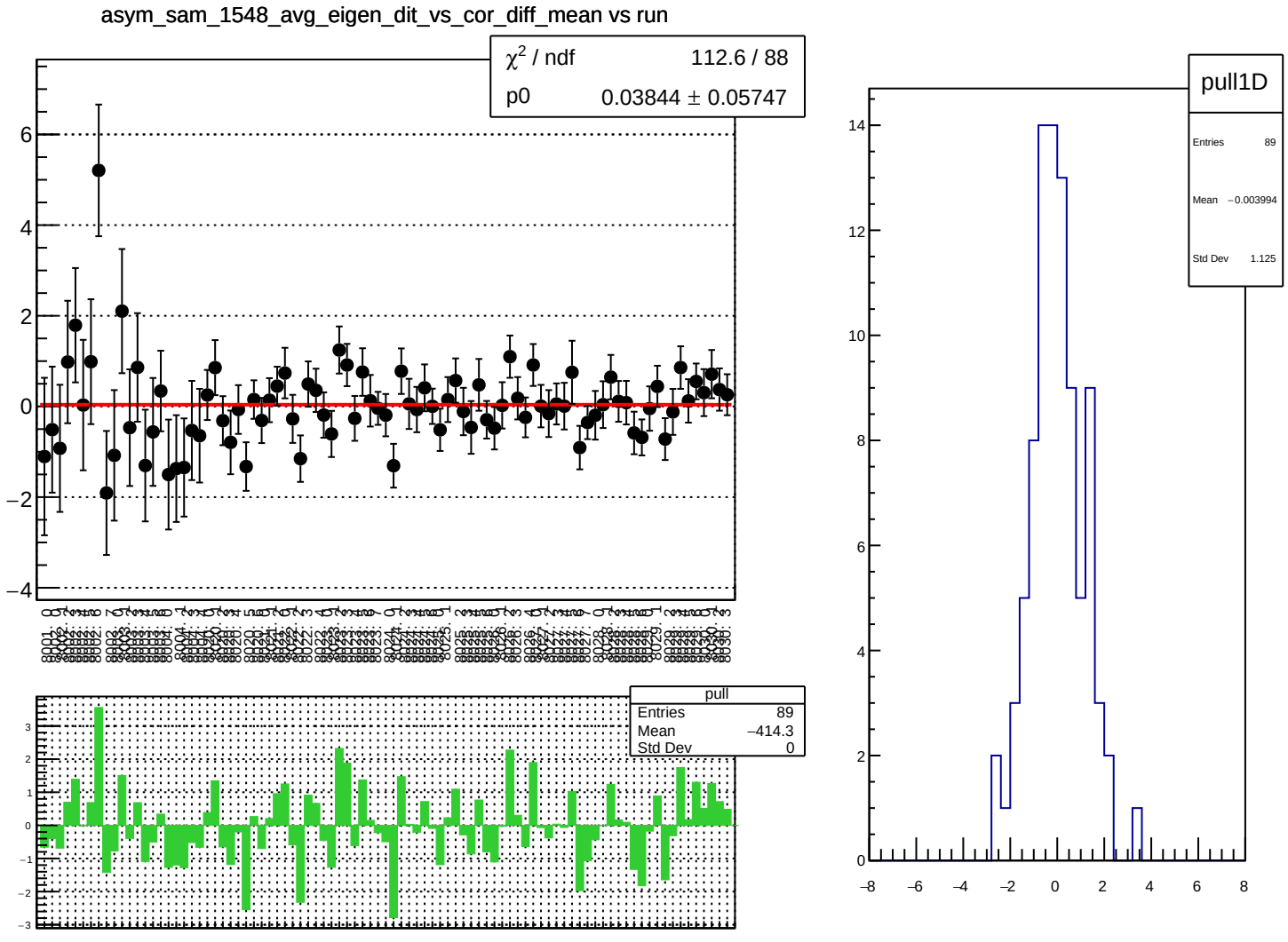

asym_sam_1548_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 112.6 / 88
p0 0.03844 ± 0.05747
pull
Entries 89
Mean −414.5
Std Dev 0
pull1D
Entries 89
Mean −0.003992
Std Dev 1.125

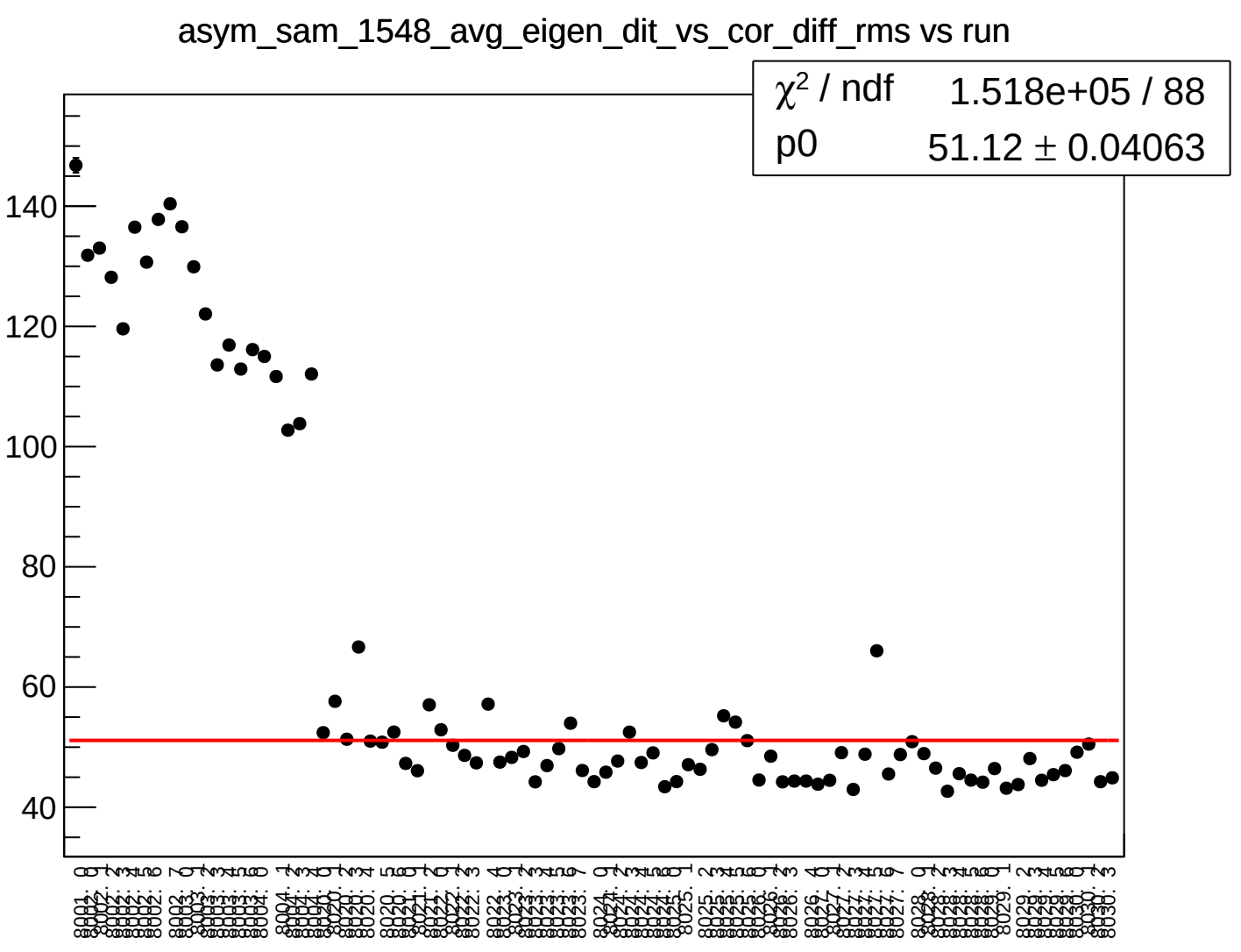

asym_sam_1548_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.518e+05 / 88
p0 51.12 ± 0.04064
140
120
100
80
60
40

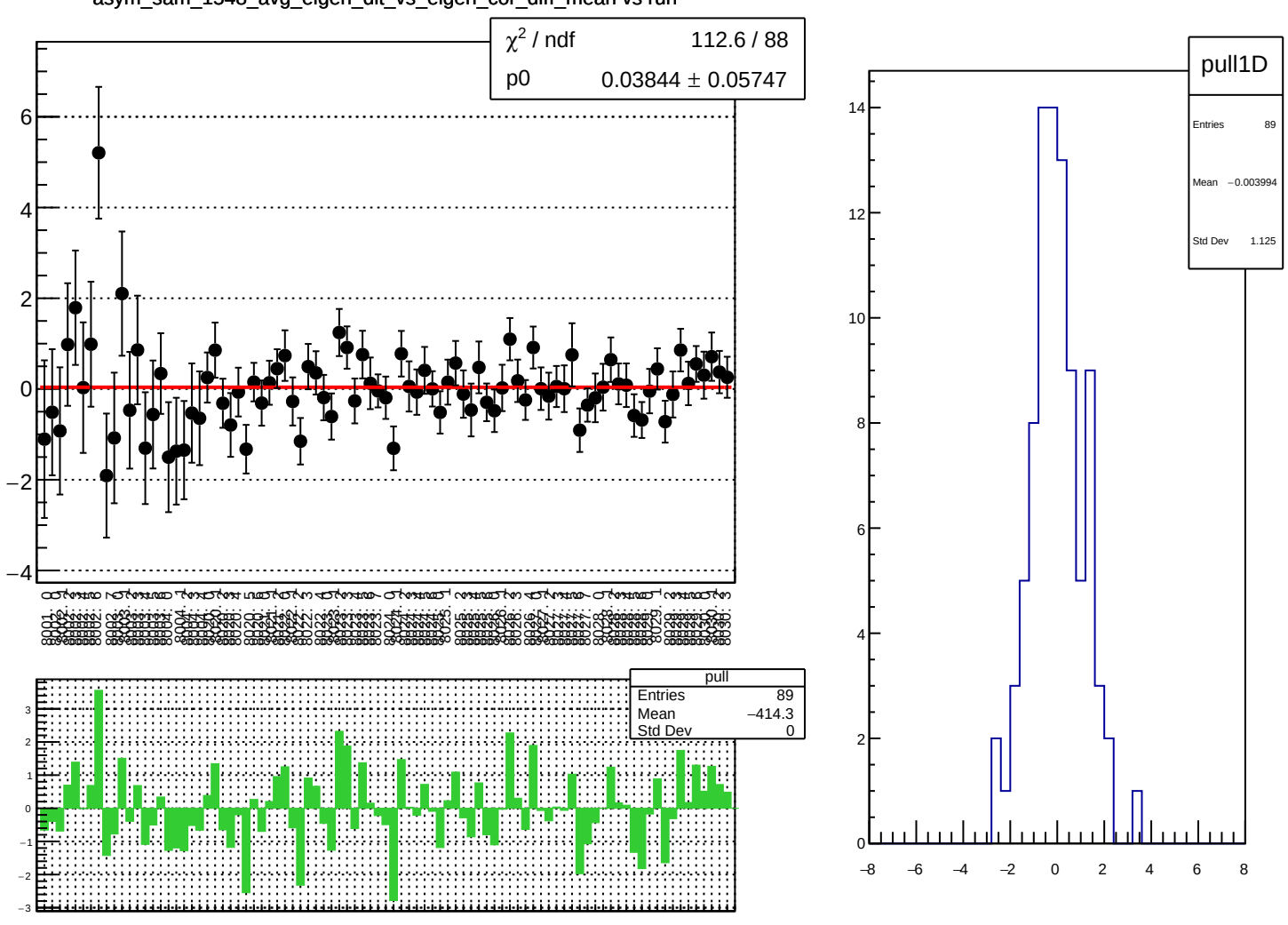

asym_sam_1548_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.47 / 88
p0 −1.944e−06 ± 4.447e−06
pull
Entries 89
Mean 116.8
Std Dev 0

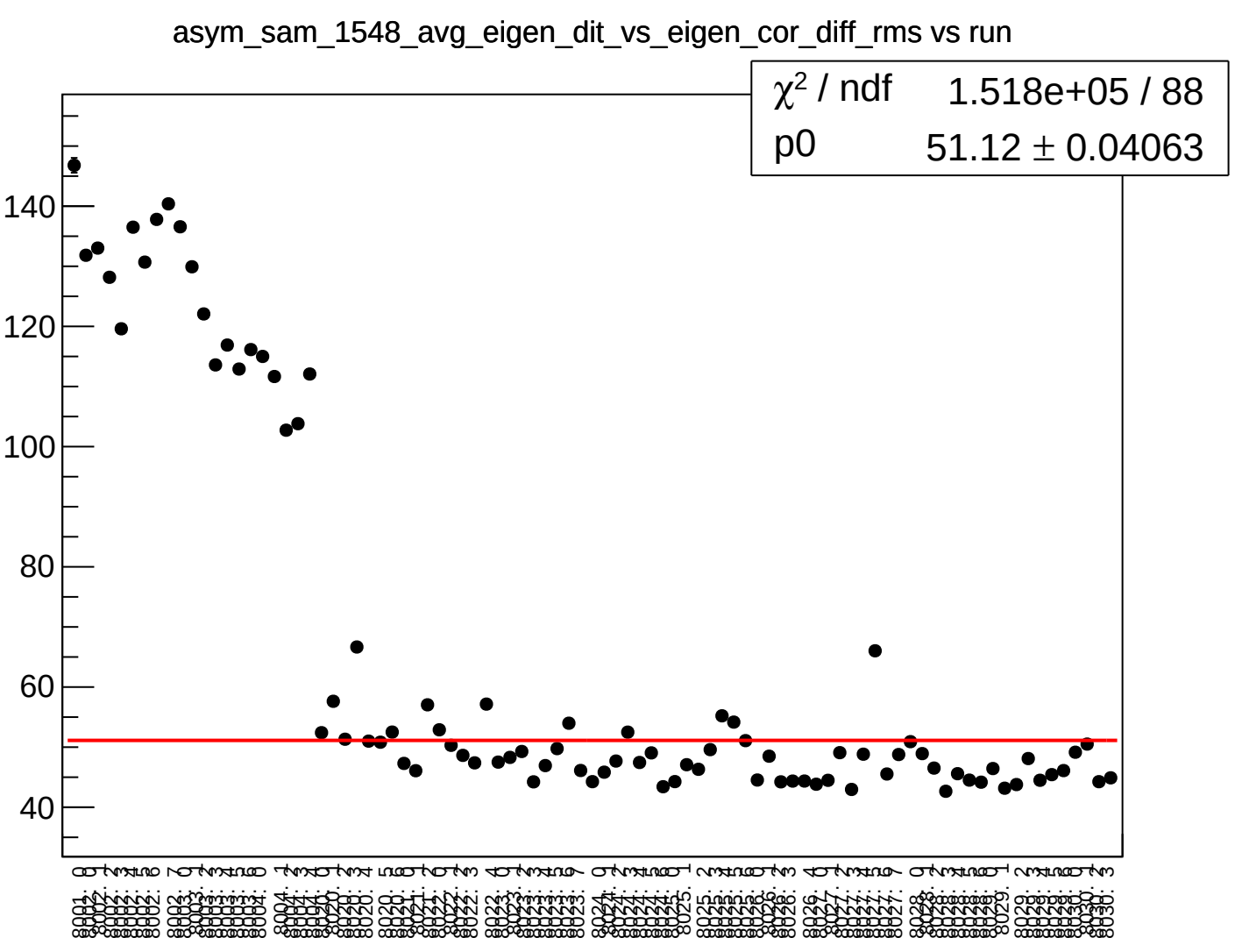

pull1D
Entries 89
Mean −0.01967
Std Dev 0.9798

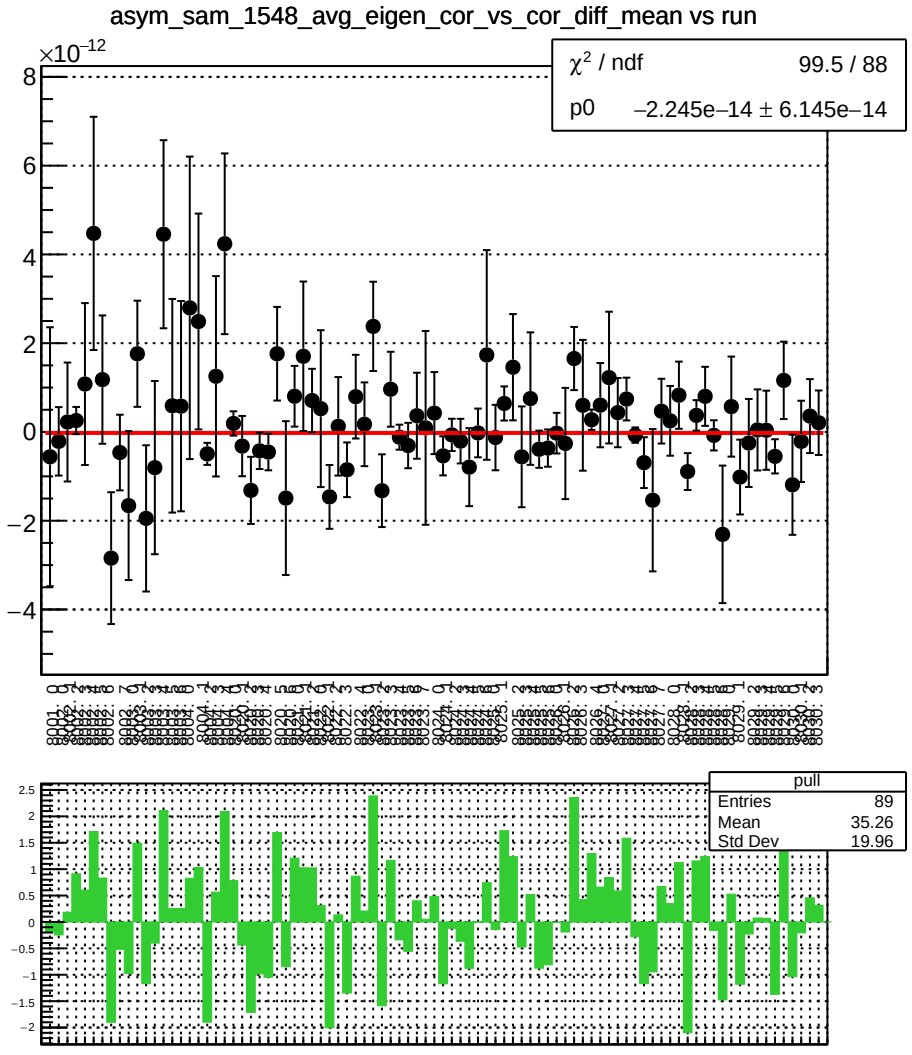

asym_sam_1548_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.968e+04 / 88
p0 0.004094 ± 3.145e−06
0.006
0.0055
0.005
0.0045
0.004
0.0035

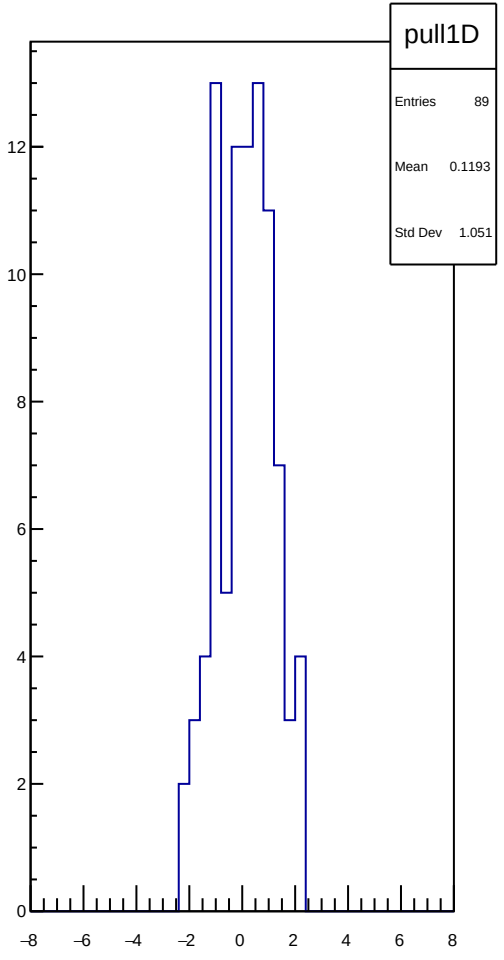

asym_sam_1548_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 112.6 / 88
p0 0.03844 ± 0.05747
pull
Entries 89
Mean −414.3
Std Dev 0
pull1D
Entries 89
Mean −0.003994
Std Dev 1.125

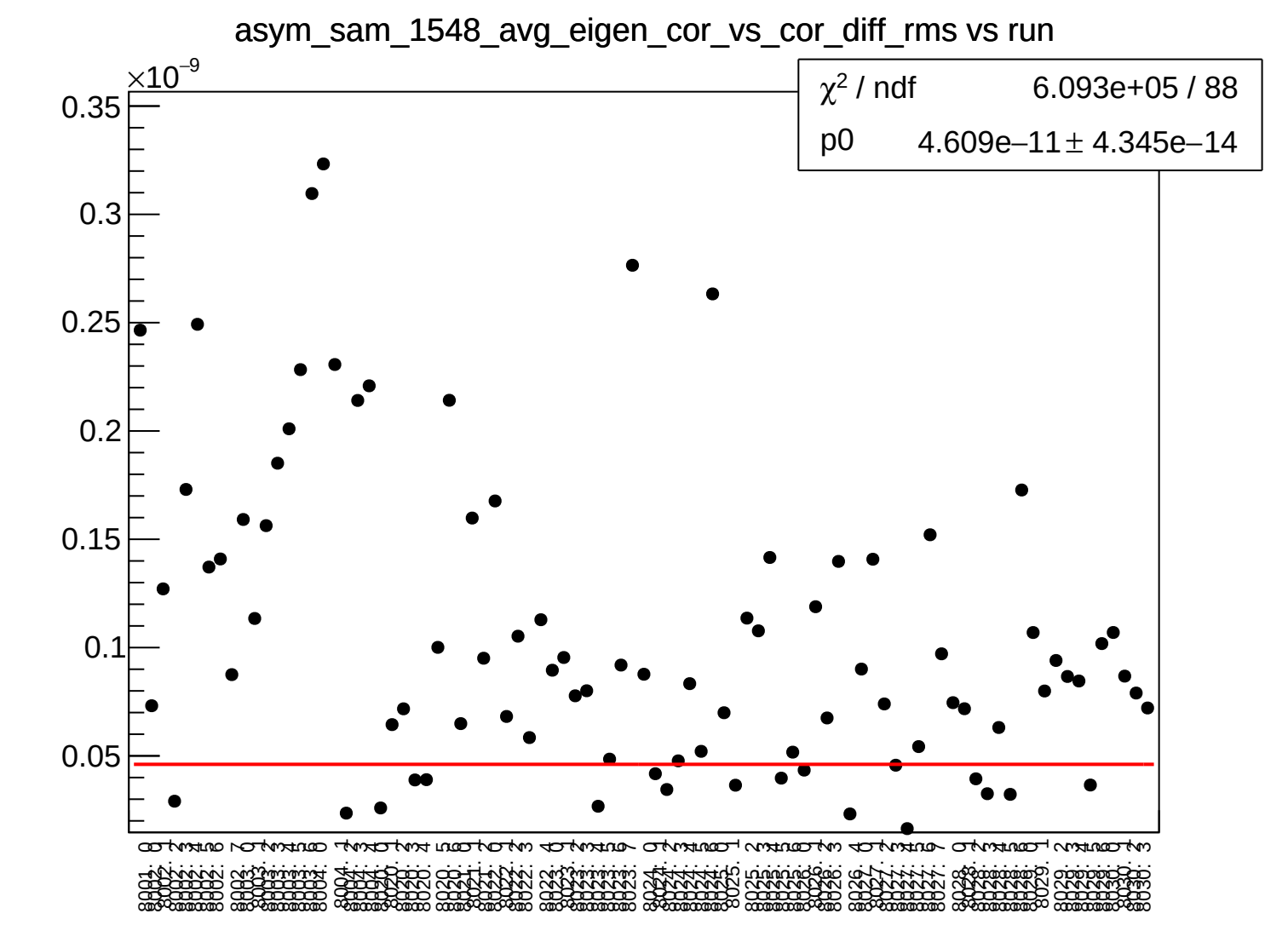

asym_sam_1548_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.518e+05 / 88
p0 51.12 ± 0.04063
140
120
100
80
60
40

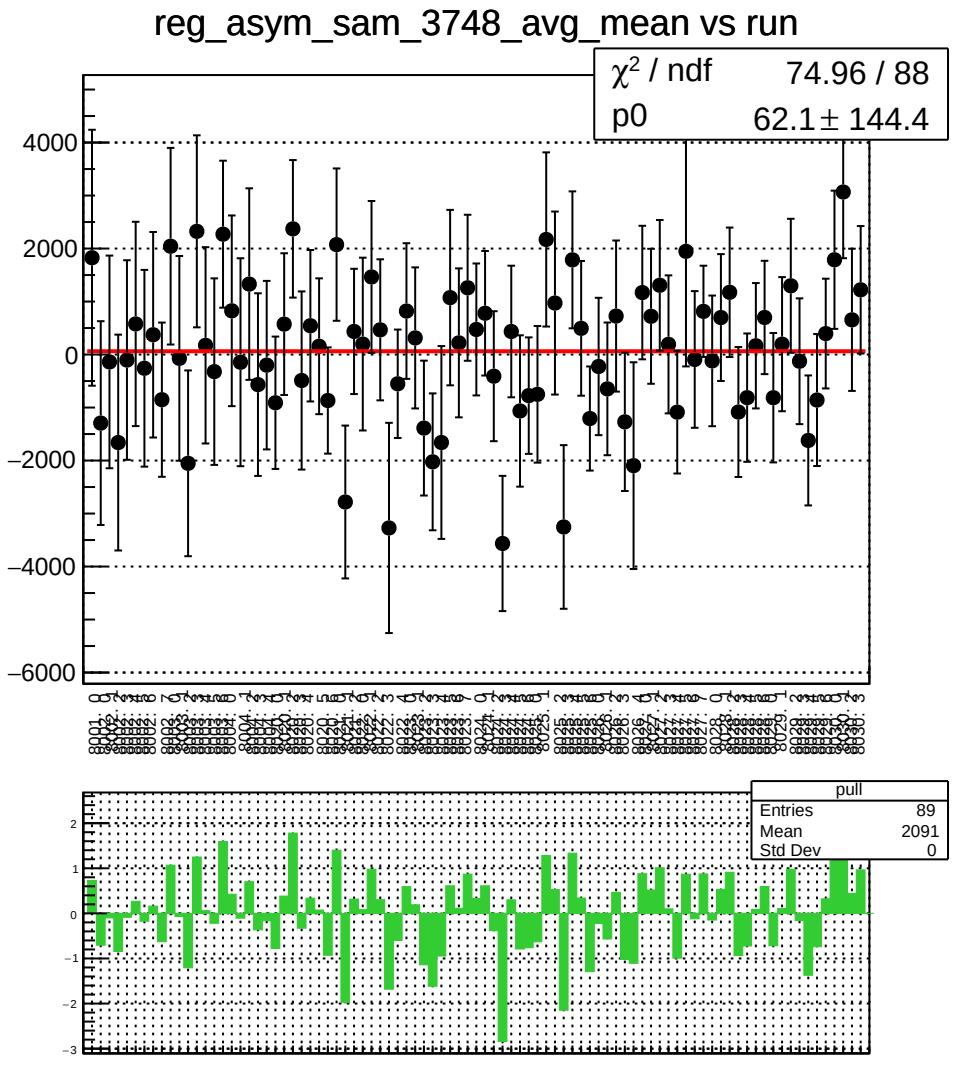

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 112.6 / 88
p0 0.03844 ± 0.05747
pull
Entries 89
Mean −414.3
Std Dev 0
pull1D
Entries 89
Mean −0.003994
Std Dev 1.125

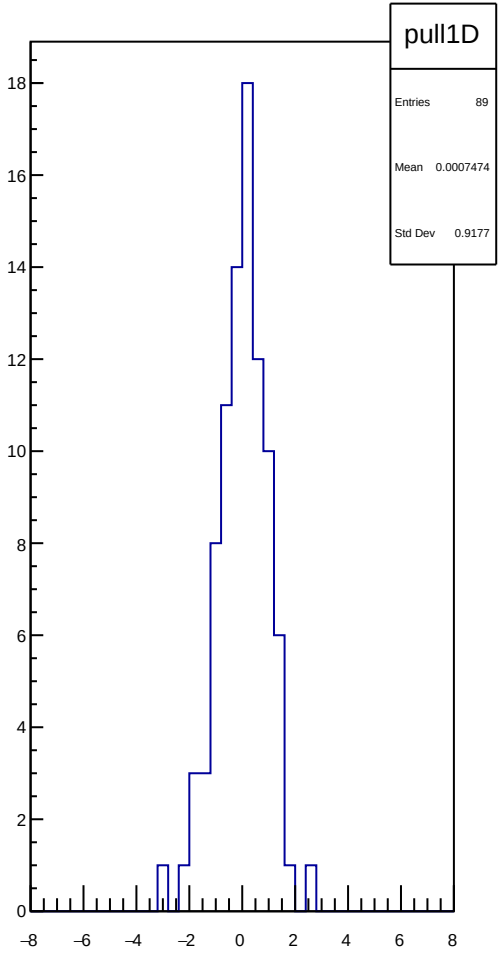

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.518e+05 / 88
p0 51.12 ± 0.04063
140
120
100
80
60
40

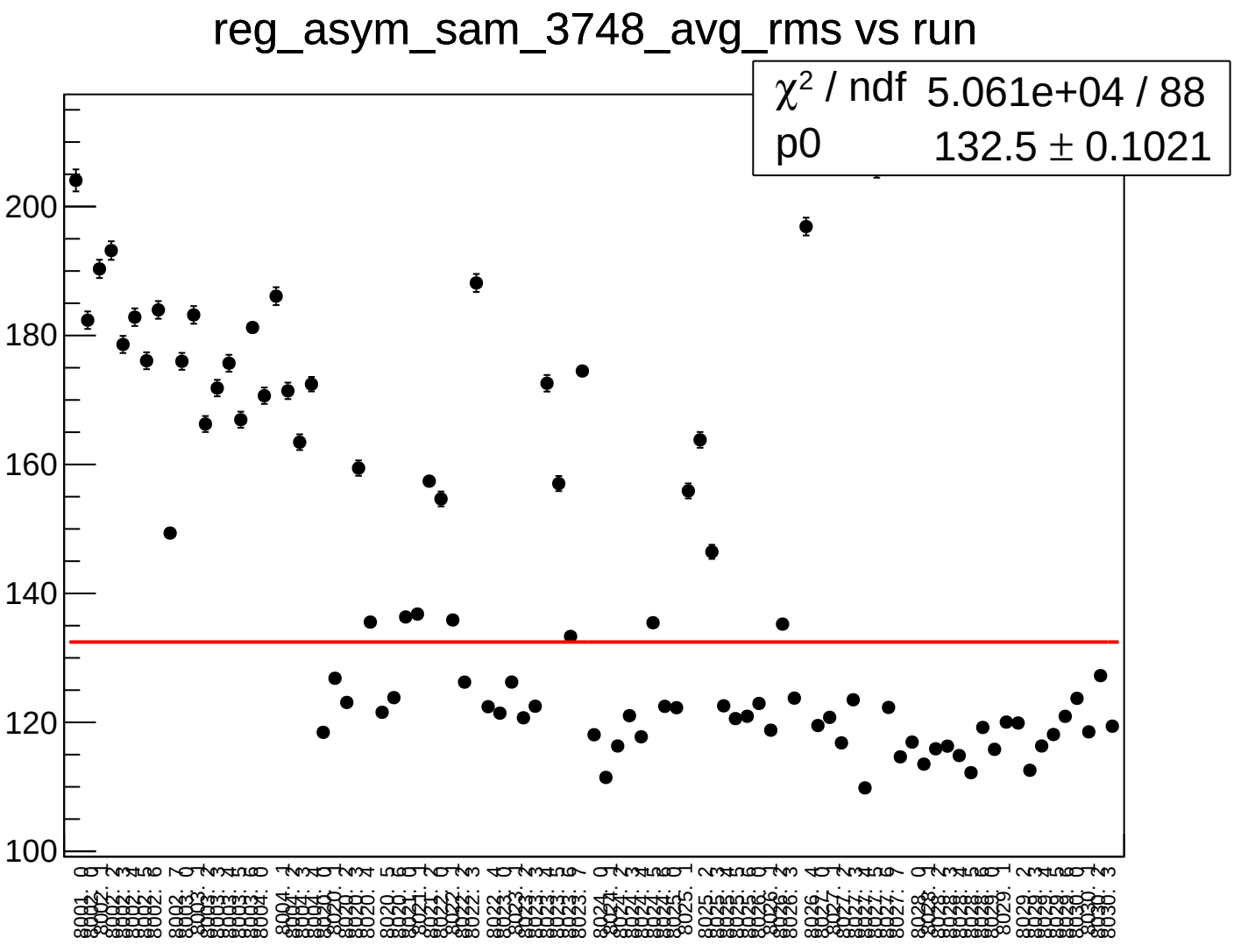

asym_sam_1548_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 99.5 / 88
p0 −2.245e−14 ± 6.145e−14
pull
Entries 89
Mean 35.26
Std Dev 19.96

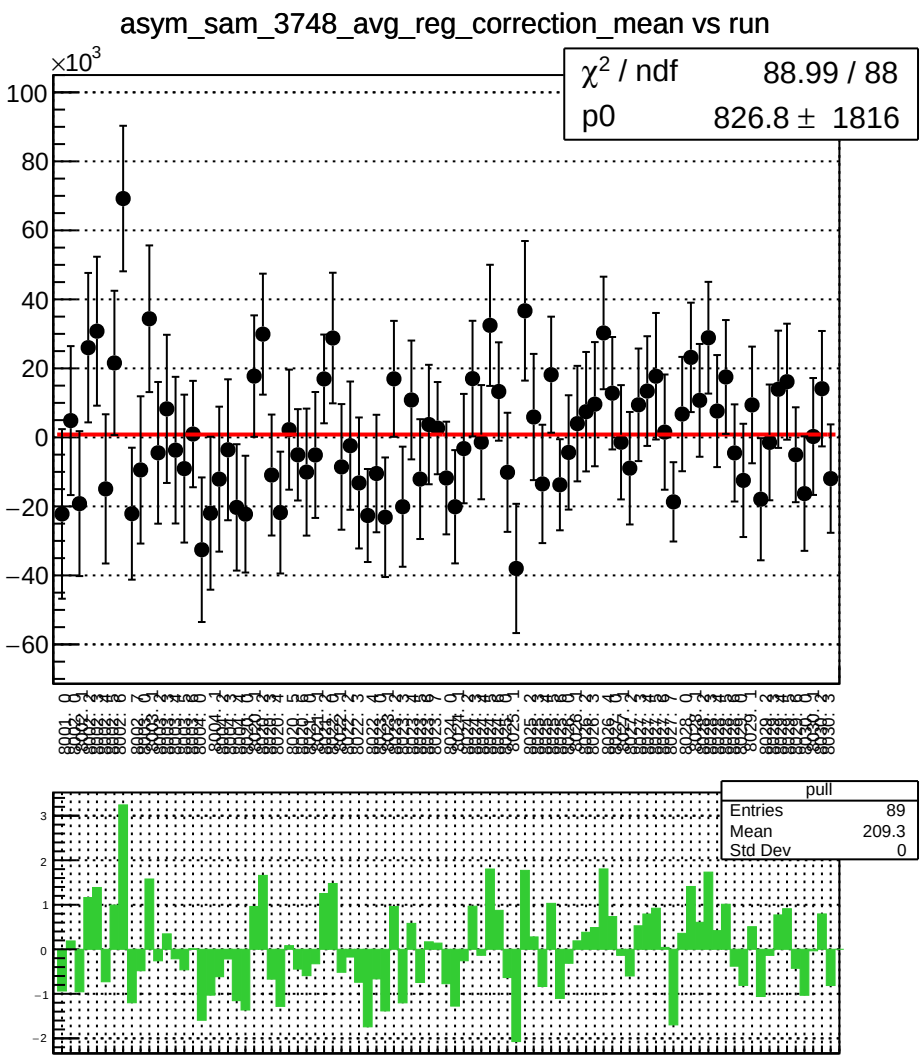

pull1D
Entries 89
Mean 0.1193
Std Dev 1.051

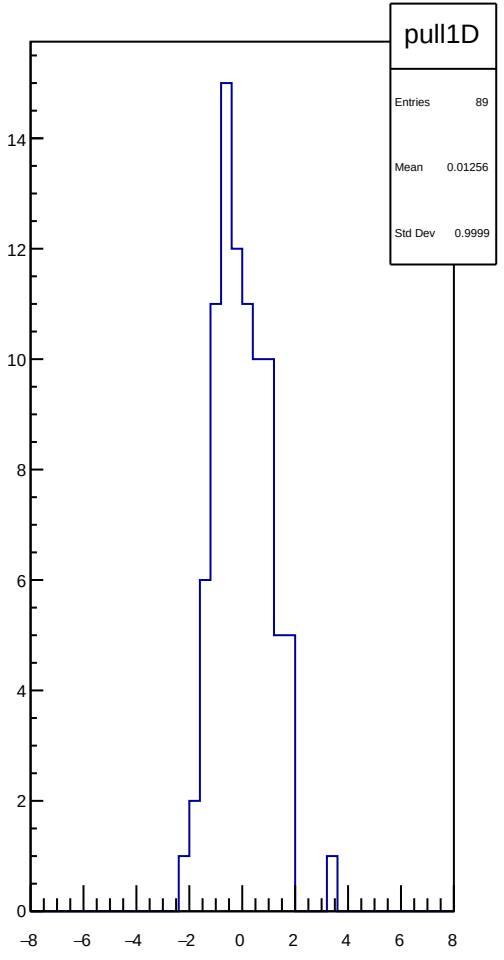

asym_sam_1548_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.093e+05 / 88
p0 4.609e−11 ± 4.345e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

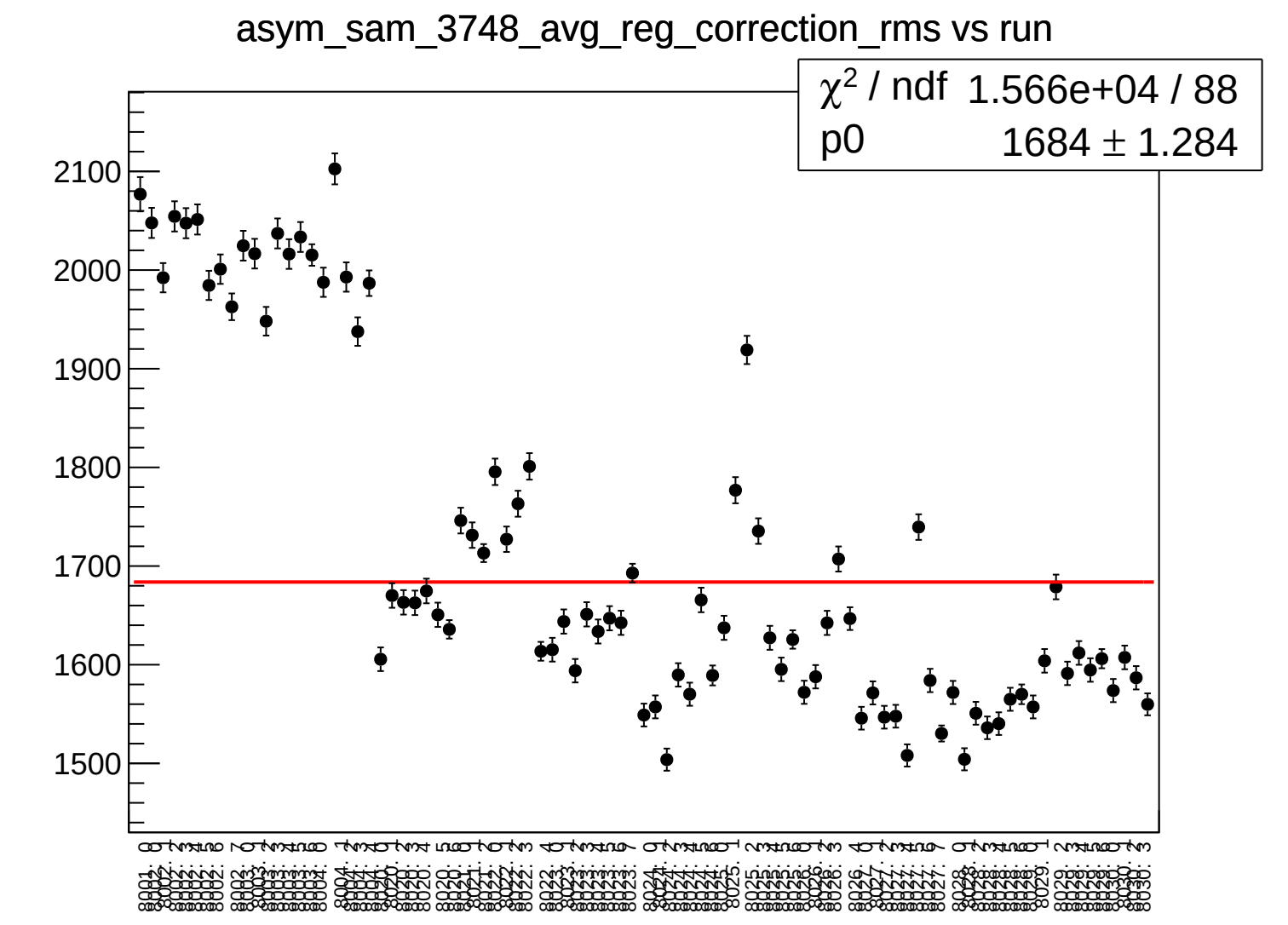

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 74.96 / 88
p0 62.1 ± 144.4
pull
Entries 89
Mean 2091
Std Dev 0

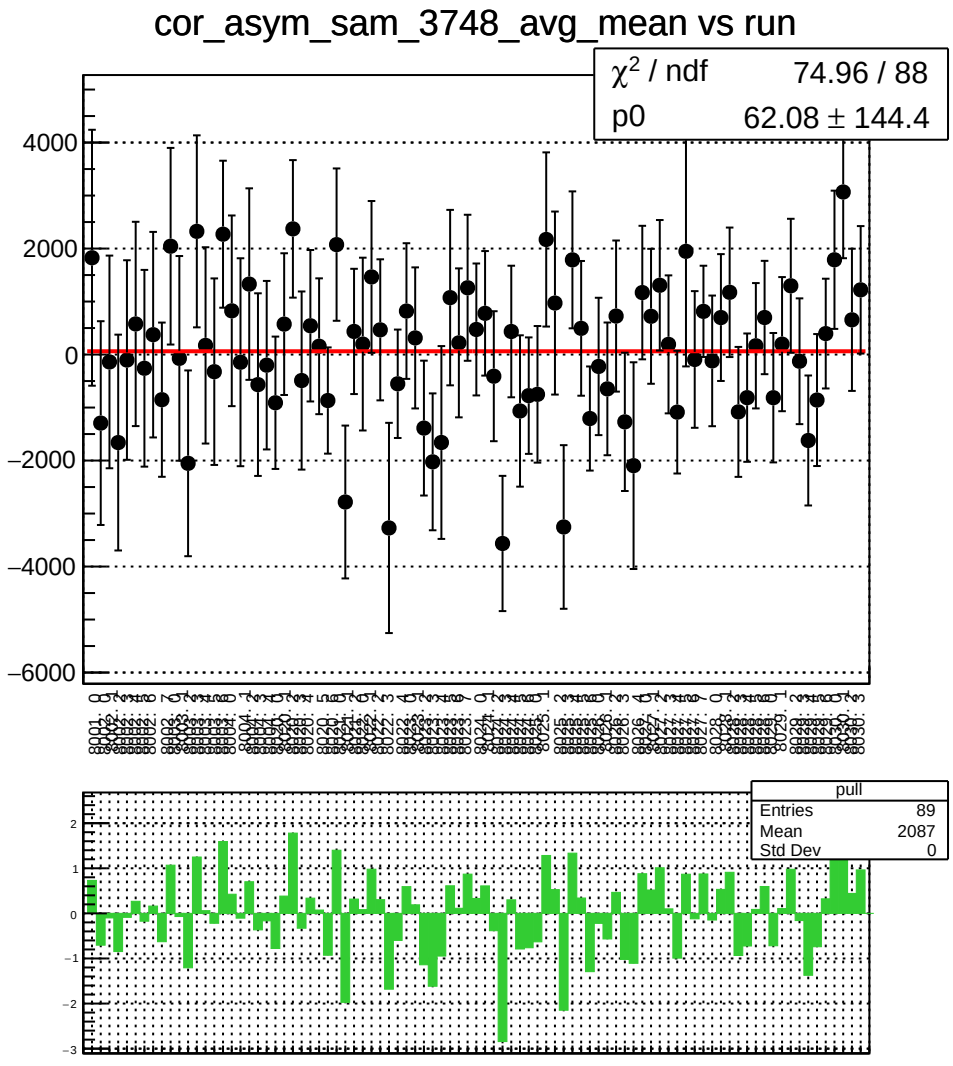

pull1D
Entries 89
Mean 0.0007474
Std Dev 0.9177

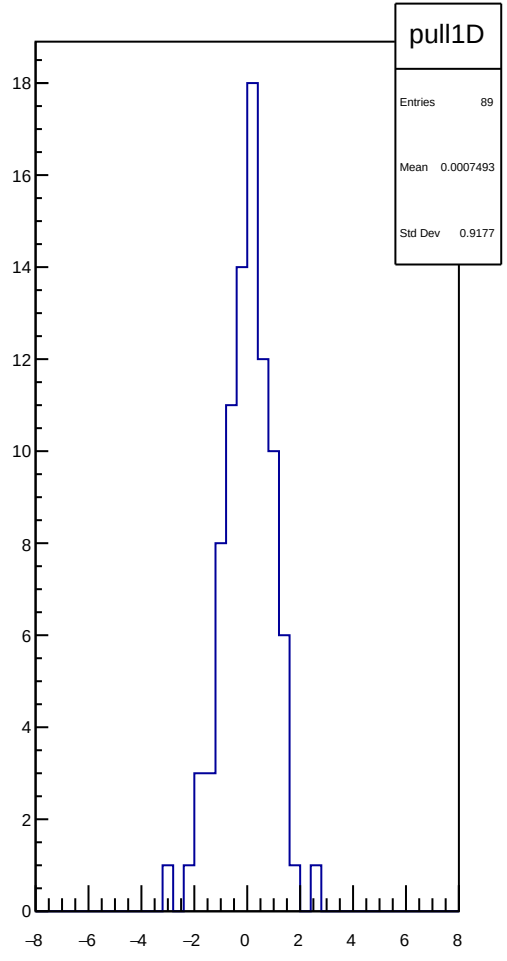

reg_asym_sam_3748_avg_rms vs run
χ² / ndf 5.061e+04 / 88
p0 132.5 ± 0.1021
200
180
160
140
120
100

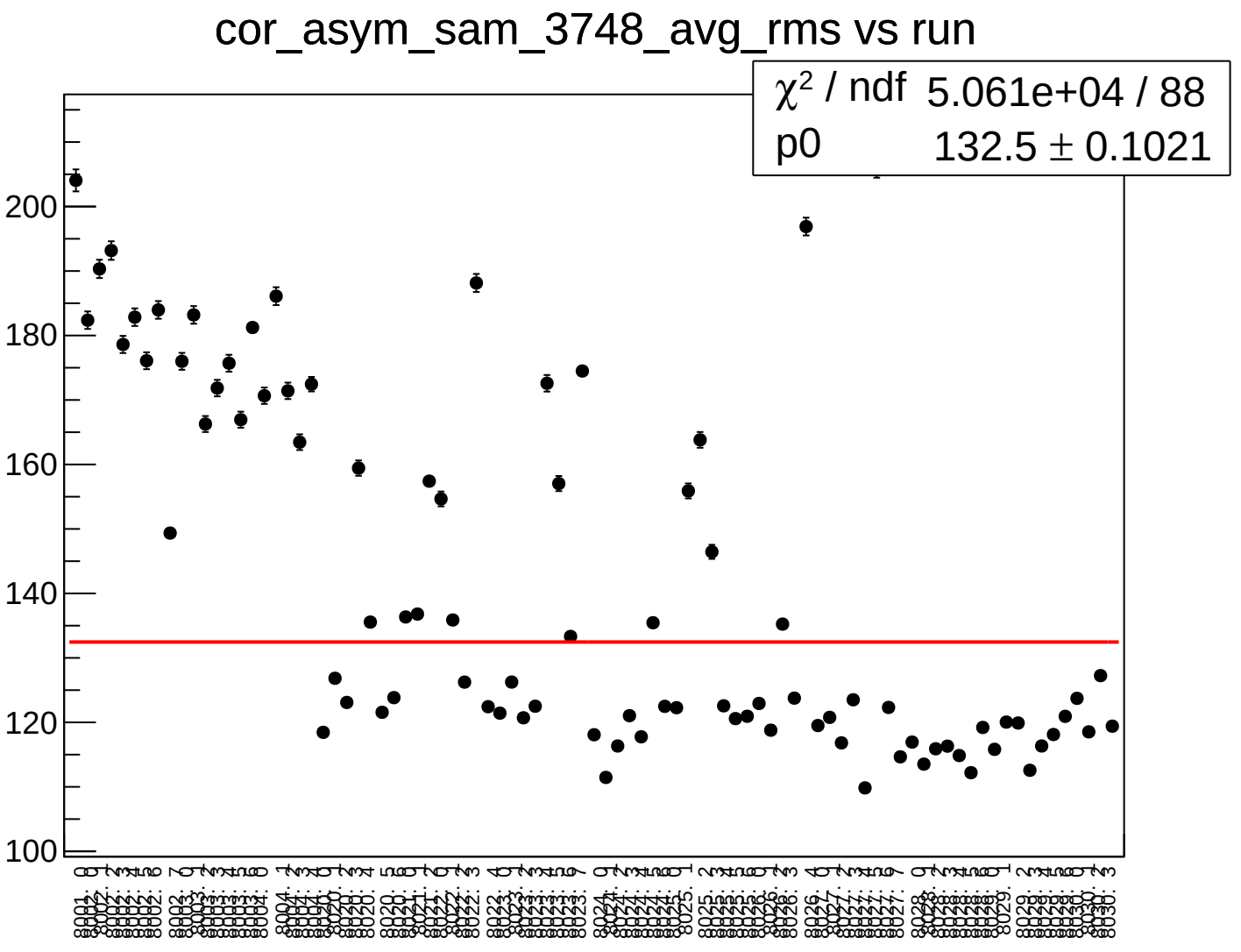

asym_sam_3748_avg_reg_correction_mean vs run
×10^3
χ² / ndf 88.99 / 88
p0 826.8 ± 1816
pull
Entries 89
Mean 209.3
Std Dev 0

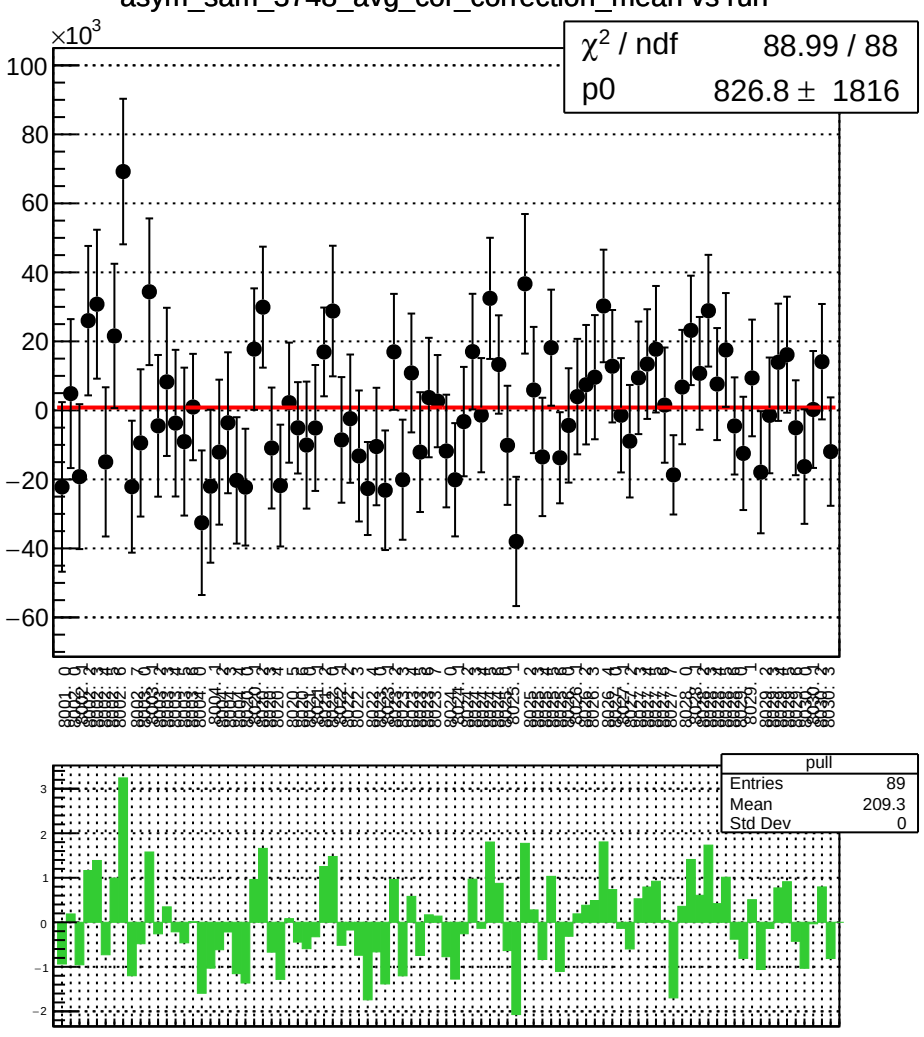

pull1D
Entries 89
Mean 0.01256
Std Dev 0.9999

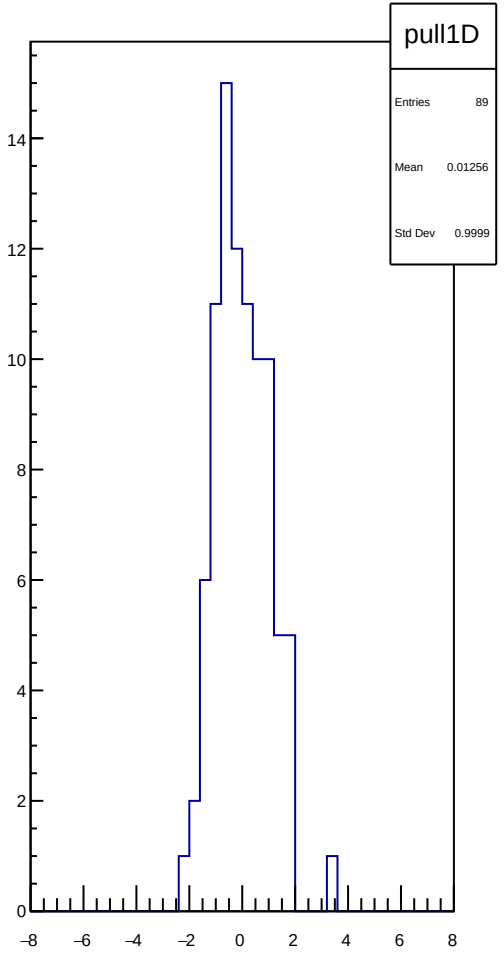

asym_sam_3748_avg_reg_correction_rms vs run
χ² / ndf 1.566e+04 / 88
p0 1684 ± 1.284
2100
2000
1900
1800
1700
1600
1500

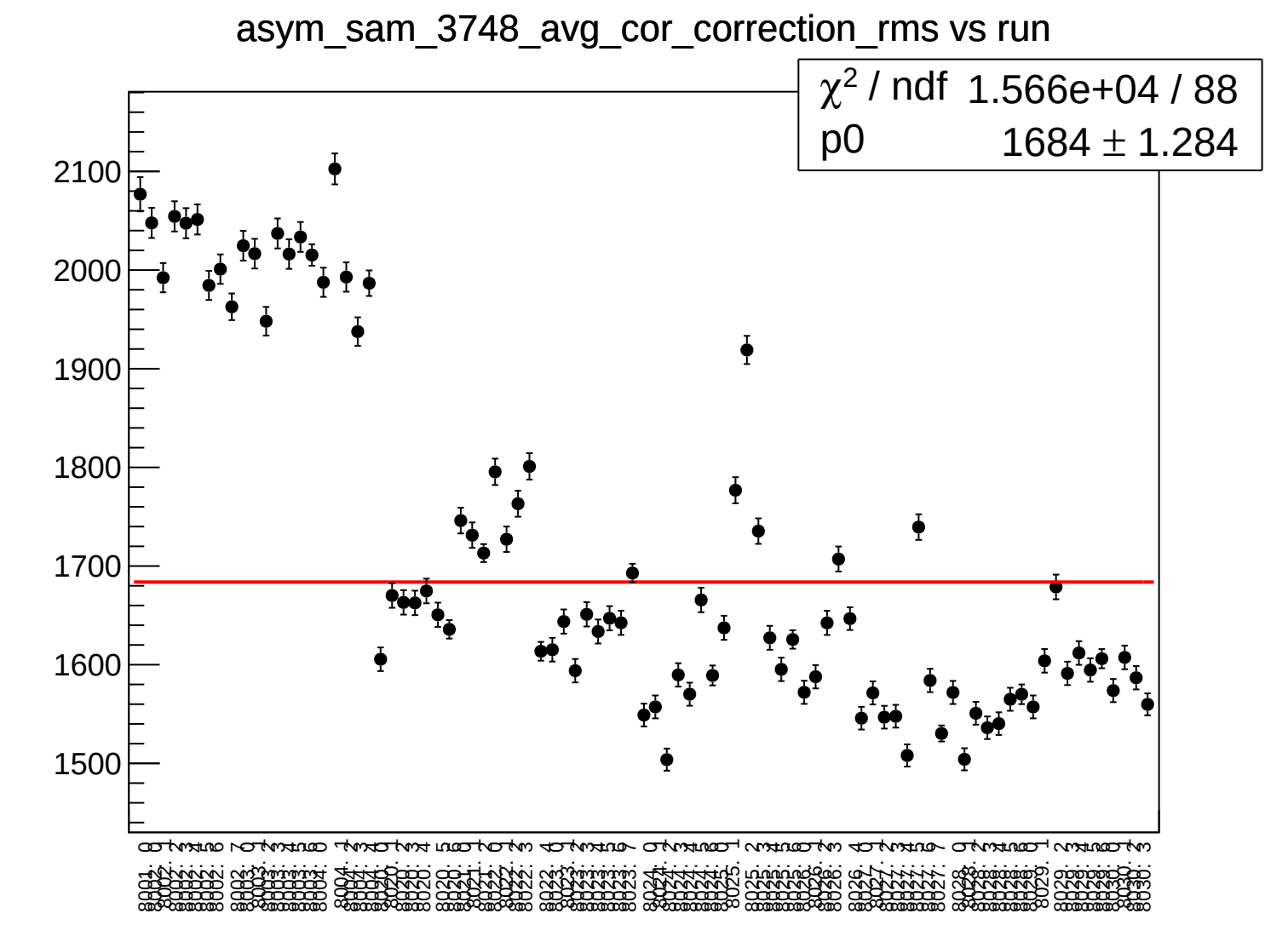

cor_asym_sam_3748_avg_mean vs run
χ² / ndf 74.96 / 88
p0 62.08 ± 144.4
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean 2087
Std Dev 0
2
1
0
−1
−2
−3

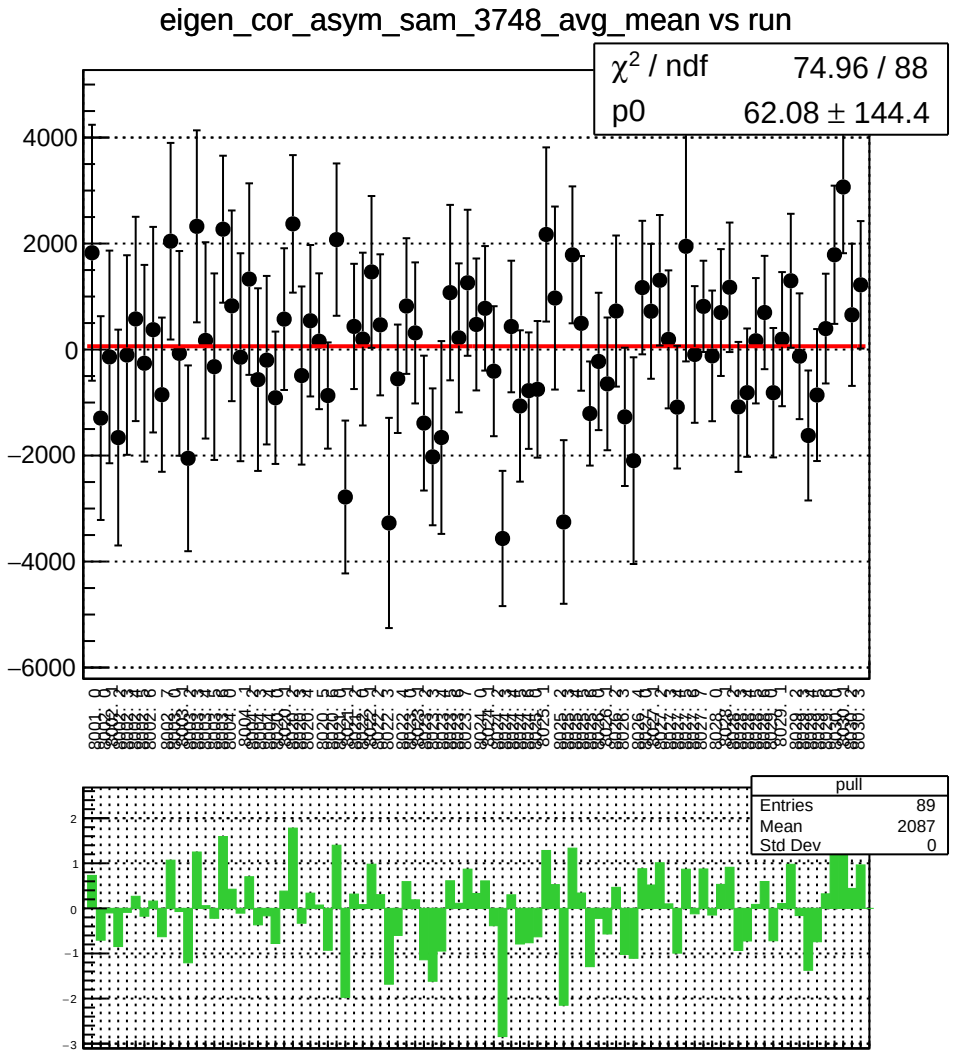

pull1D
Entries 89
Mean 0.0007493
Std Dev 0.9177
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

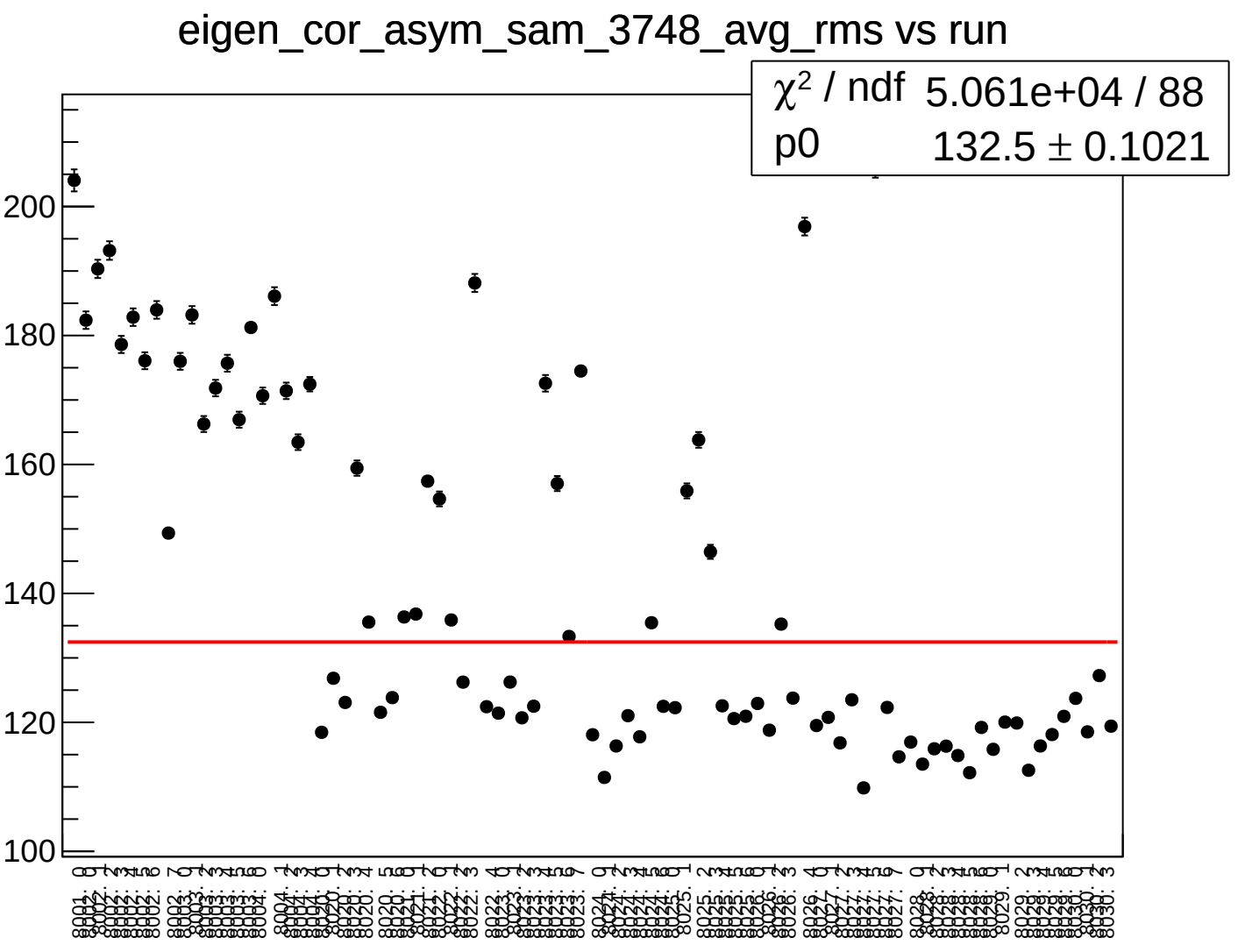

cor_asym_sam_3748_avg_rms vs run
χ² / ndf 5.061e+04 / 88
p0 132.5 ± 0.1021
200
180
160
140
120
100

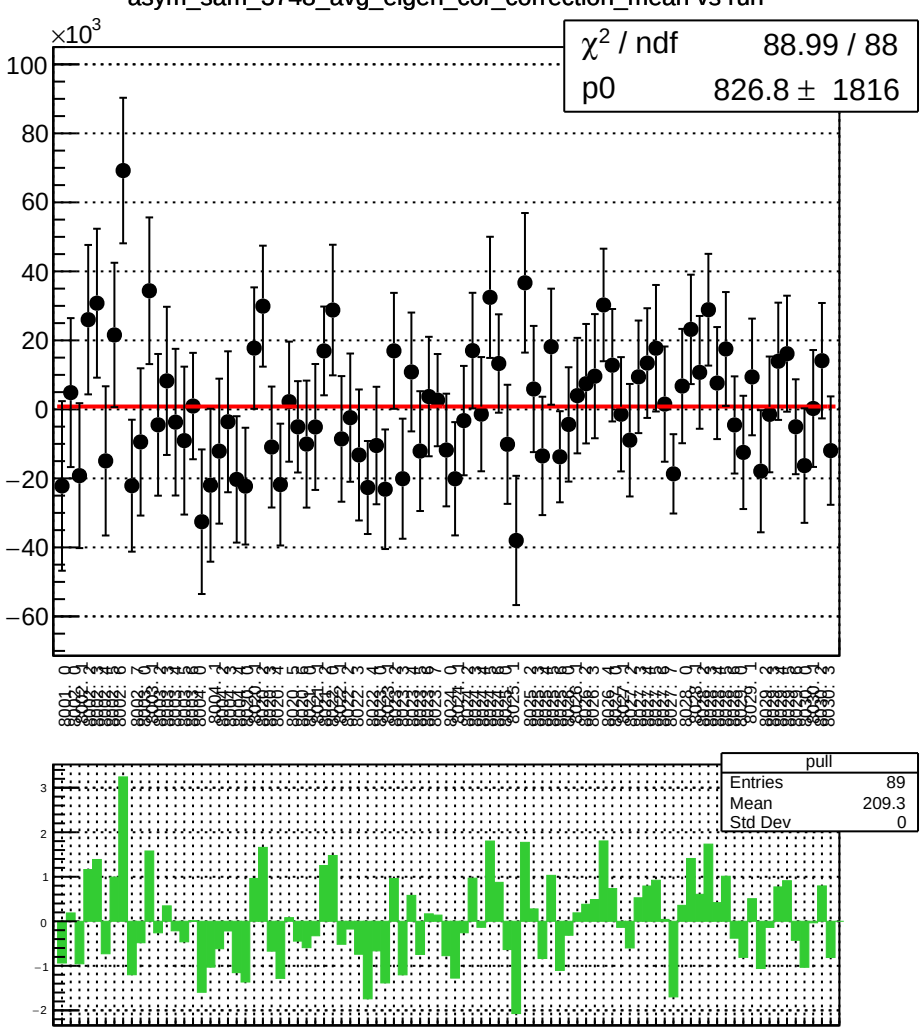

asym_sam_3748_avg_cor_correction_mean vs run
×10^3
χ² / ndf 88.99 / 88
p0 826.8 ± 1816
pull
Entries 89
Mean 209.3
Std Dev 0

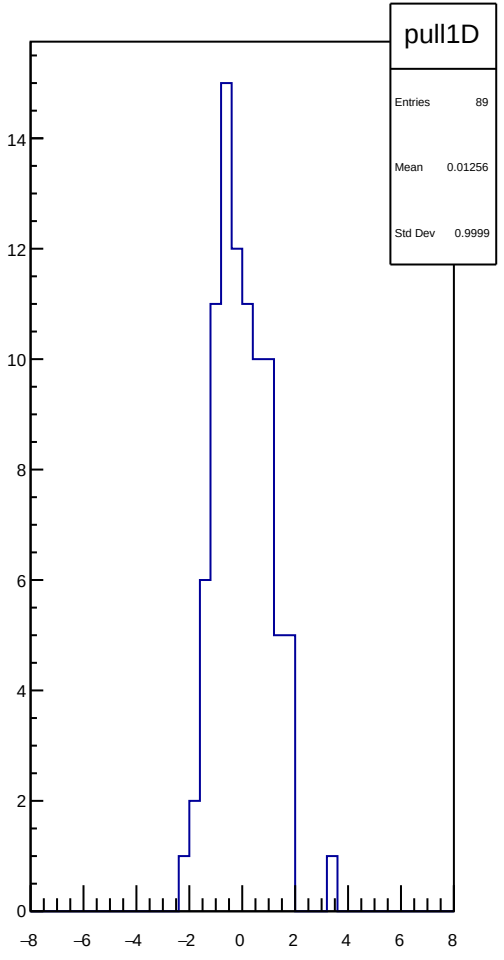

pull1D
Entries 89
Mean 0.01256
Std Dev 0.9999

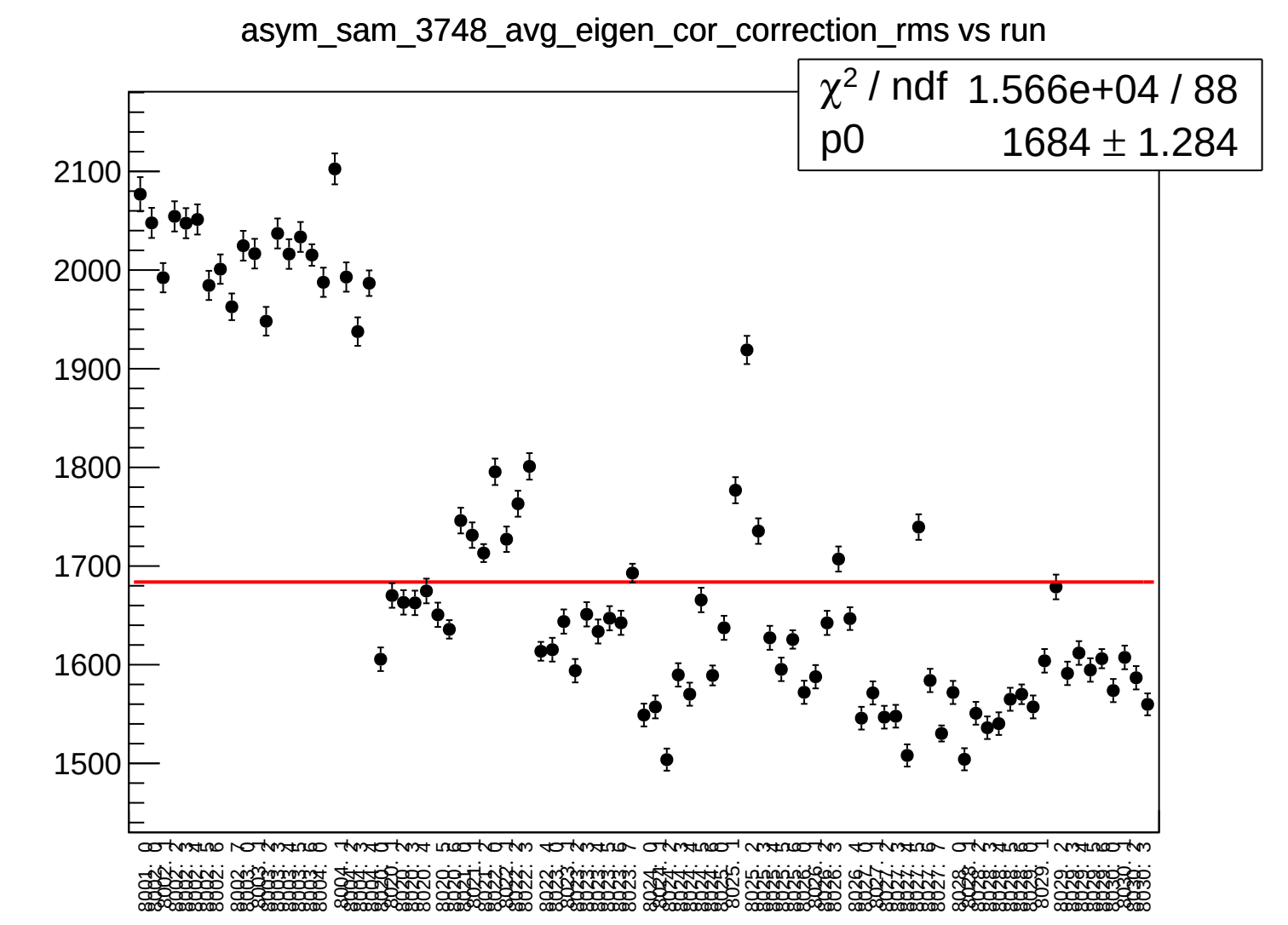

asym_sam_3748_avg_cor_correction_rms vs run
χ² / ndf 1.566e+04 / 88
p0 1684 ± 1.284
2100
2000
1900
1800
1700
1600
1500

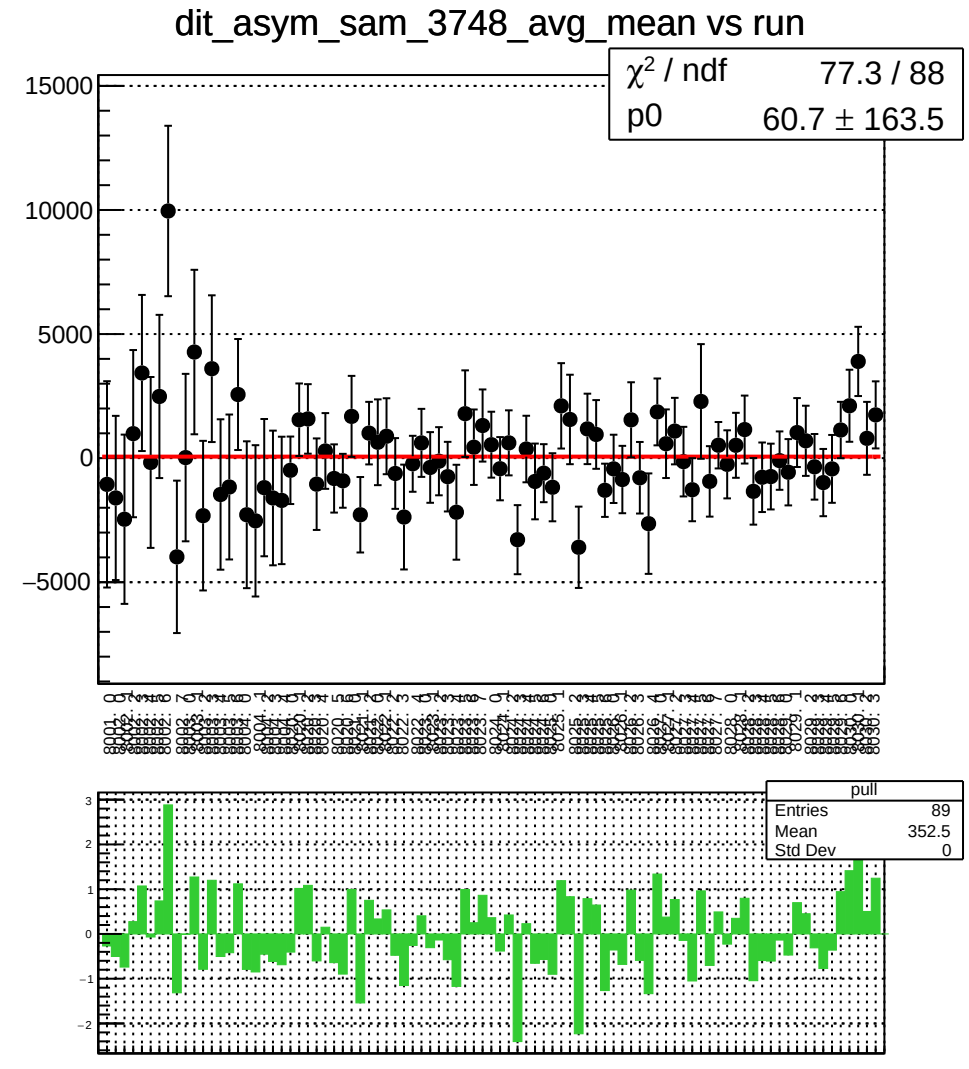

eigen_cor_asym_sam_3748_avg_mean vs run
χ² / ndf 74.96 / 88
p0 62.08 ± 144.4
pull
Entries 89
Mean 2087
Std Dev 0
pull1D
Entries 89
Mean 0.0007493
Std Dev 0.9177

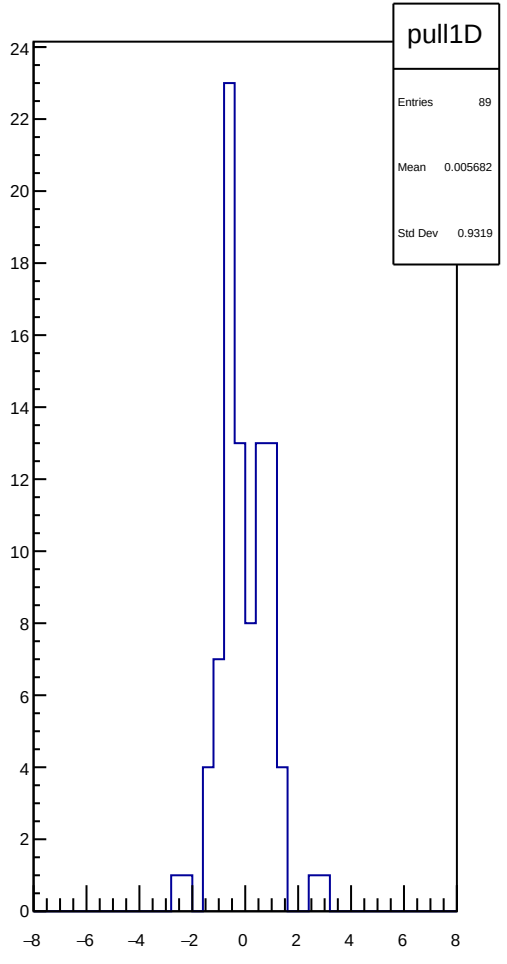

eigen_cor_asym_sam_3748_avg_rms vs run
χ² / ndf 5.061e+04 / 88
p0 132.5 ± 0.1021
200
180
160
140
120
100

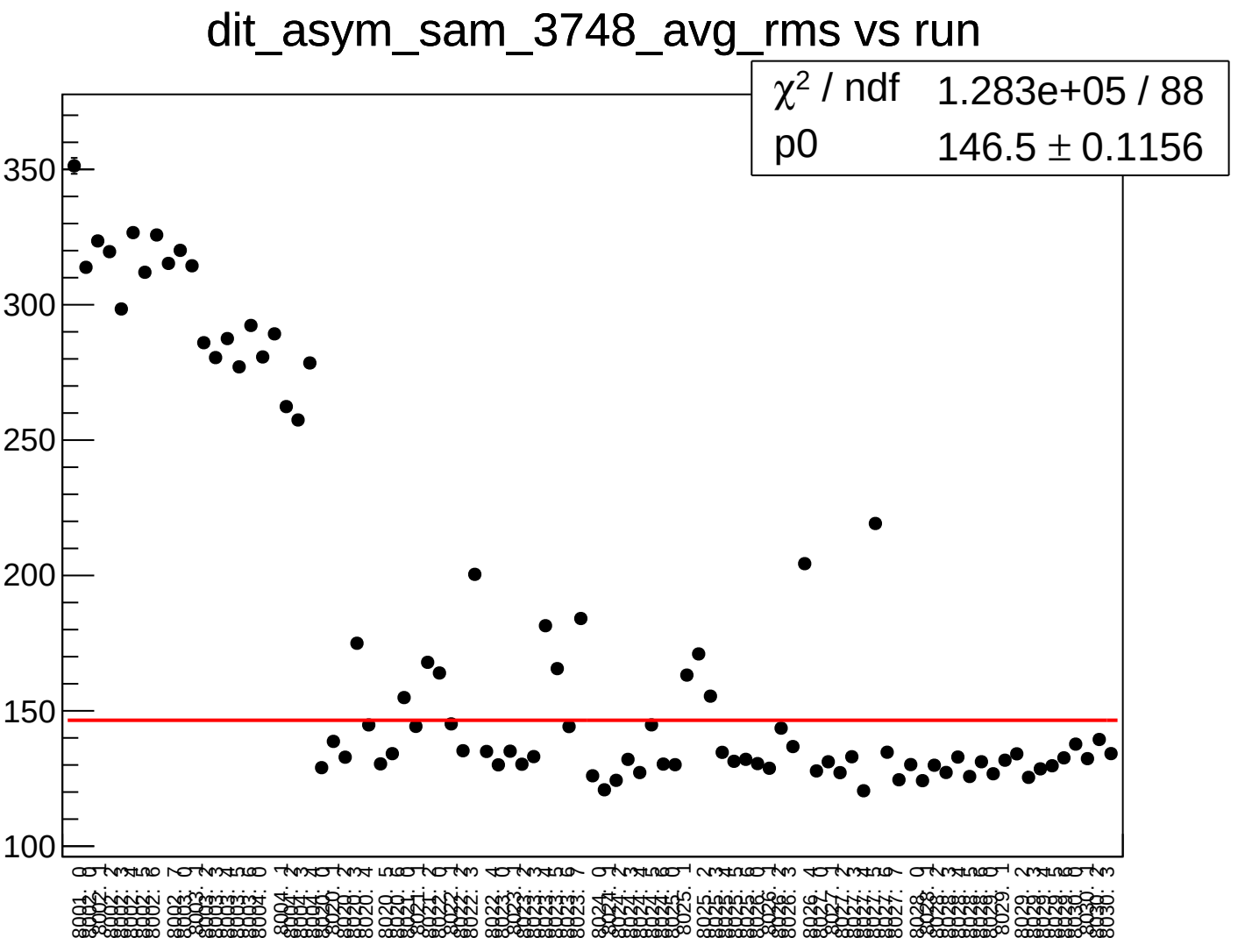

asym_sam_3748_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 88.99 / 88
p0 826.8 ± 1816
pull
Entries 89
Mean 209.3
Std Dev 0

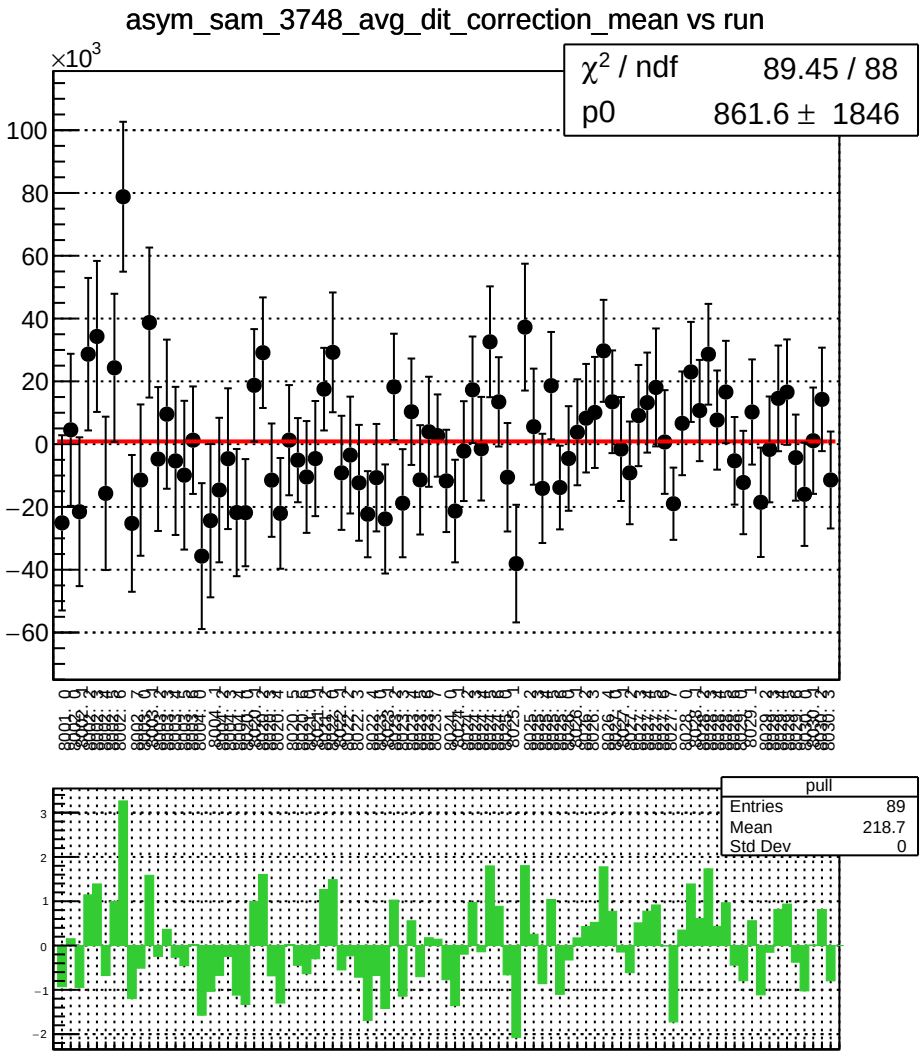

pull1D
Entries 89
Mean 0.01256
Std Dev 0.9999

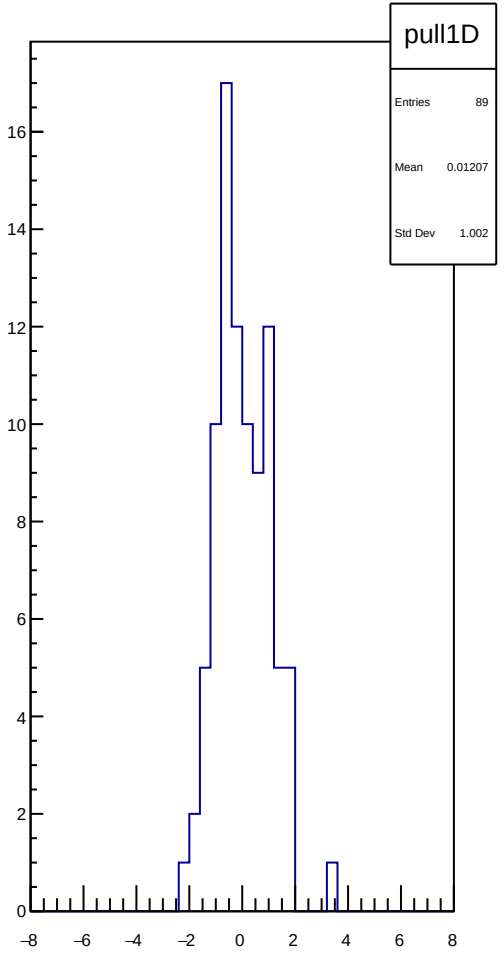

asym_sam_3748_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.566e+04 / 88
p0 1684 ± 1.284
2100
2000
1900
1800
1700
1600
1500

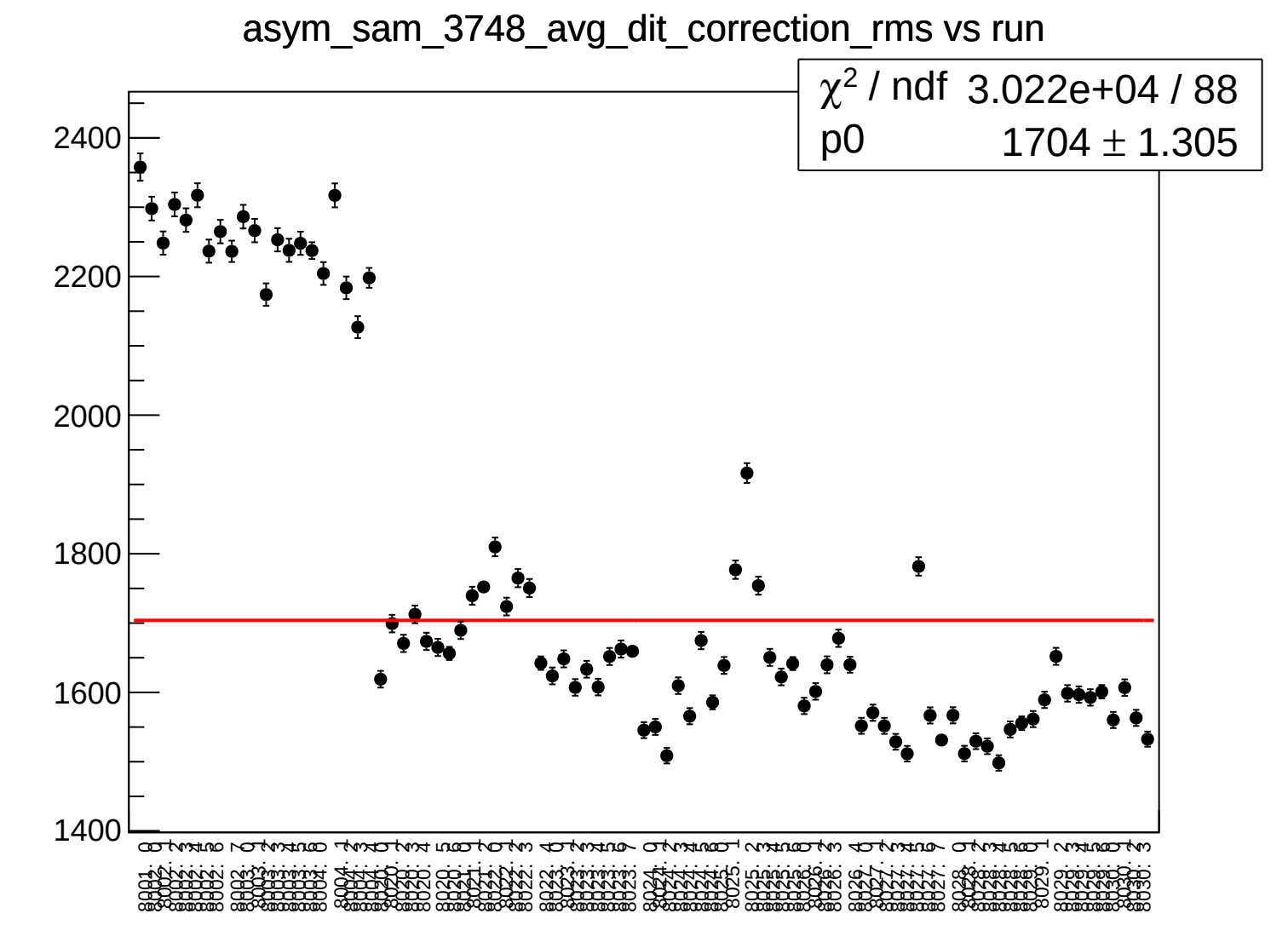

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 77.3 / 88
p0 60.7 ± 163.5
15000
10000
5000
0
−5000
pull
Entries 89
Mean 352.5
Std Dev 0
3
2
1
0
−1
−2

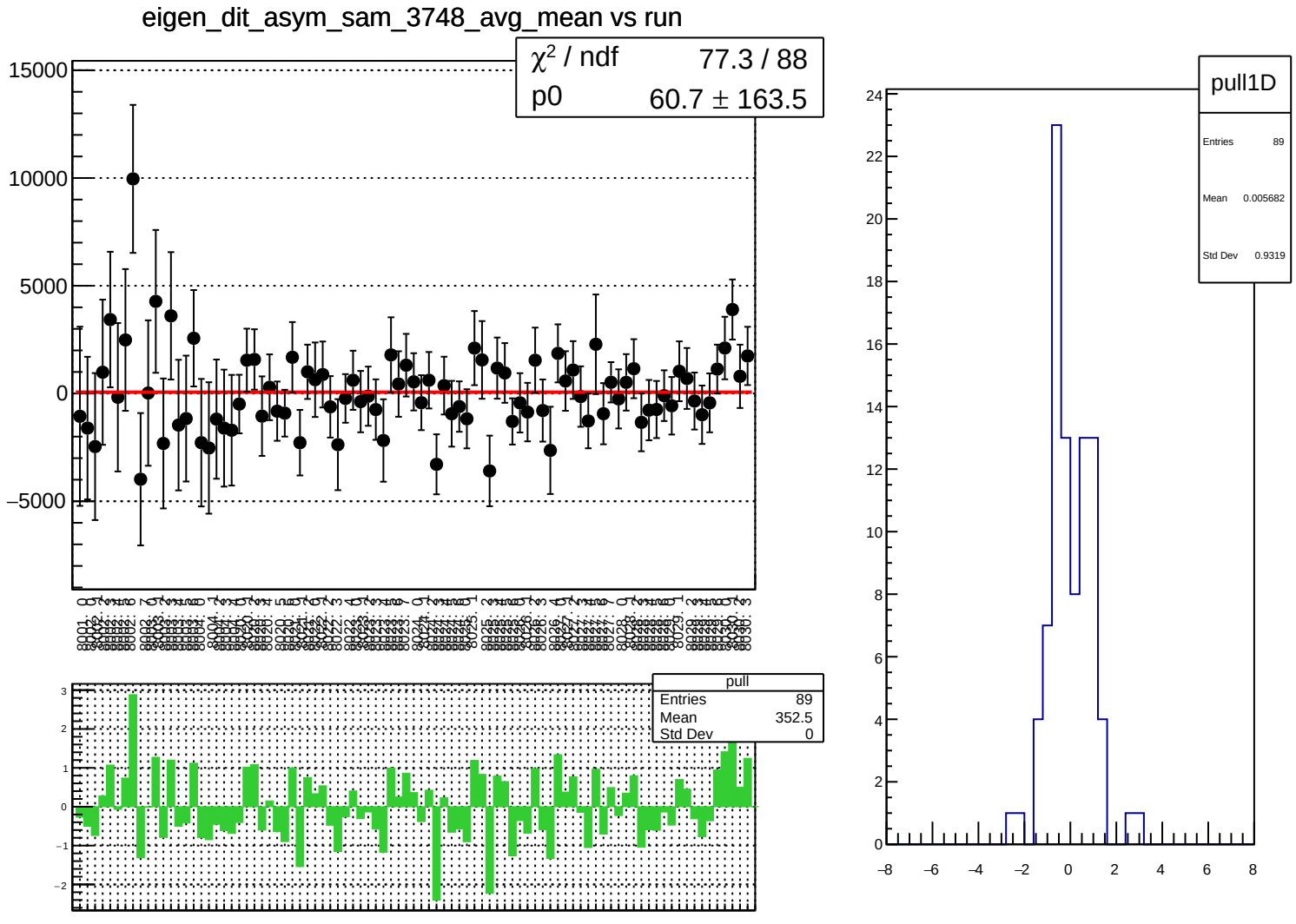

pull1D
Entries 89
Mean 0.005682
Std Dev 0.9319
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

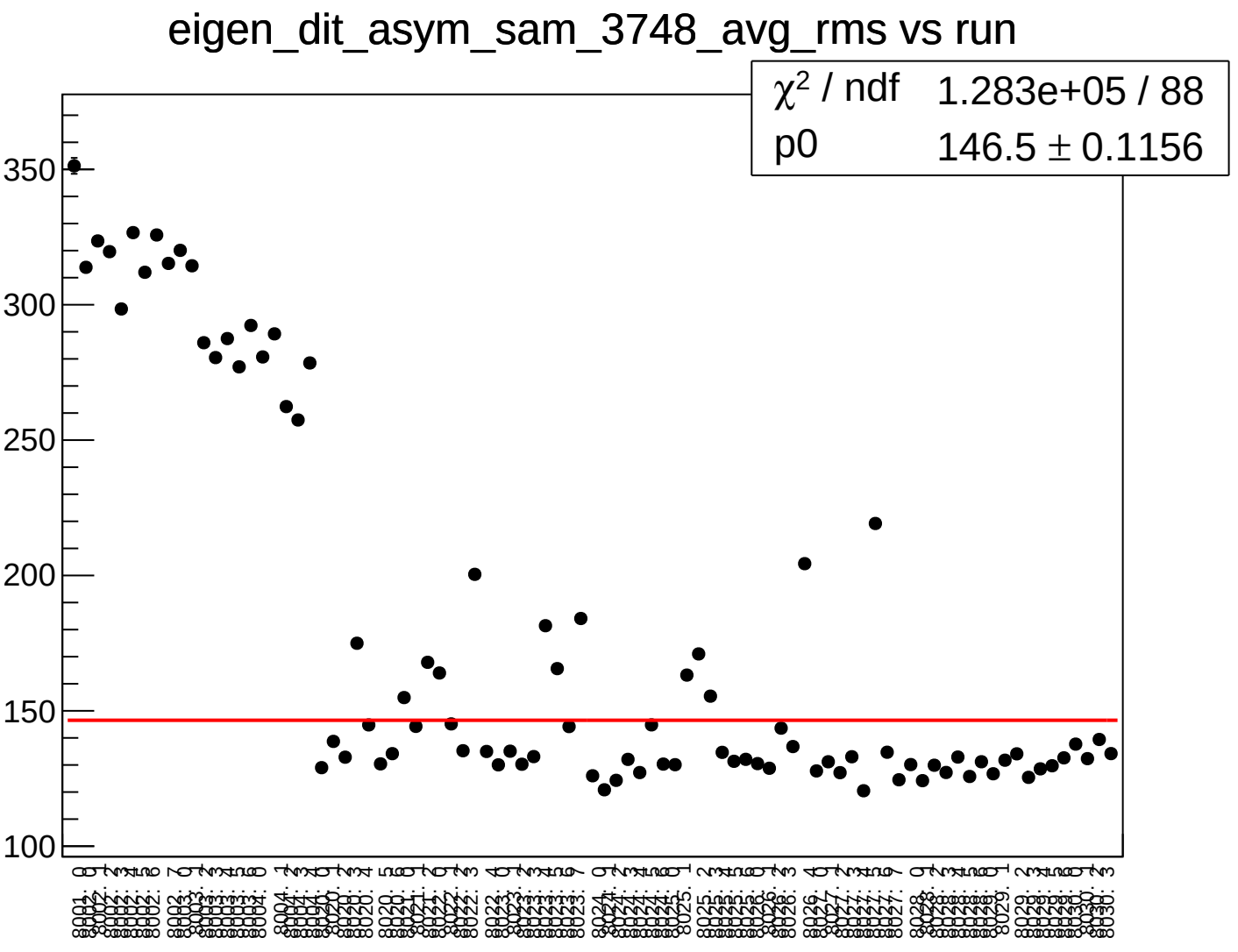

dit_asym_sam_3748_avg_rms vs run
χ² / ndf 1.283e+05 / 88
p0 146.5 ± 0.1156
350
300
250
200
150
100

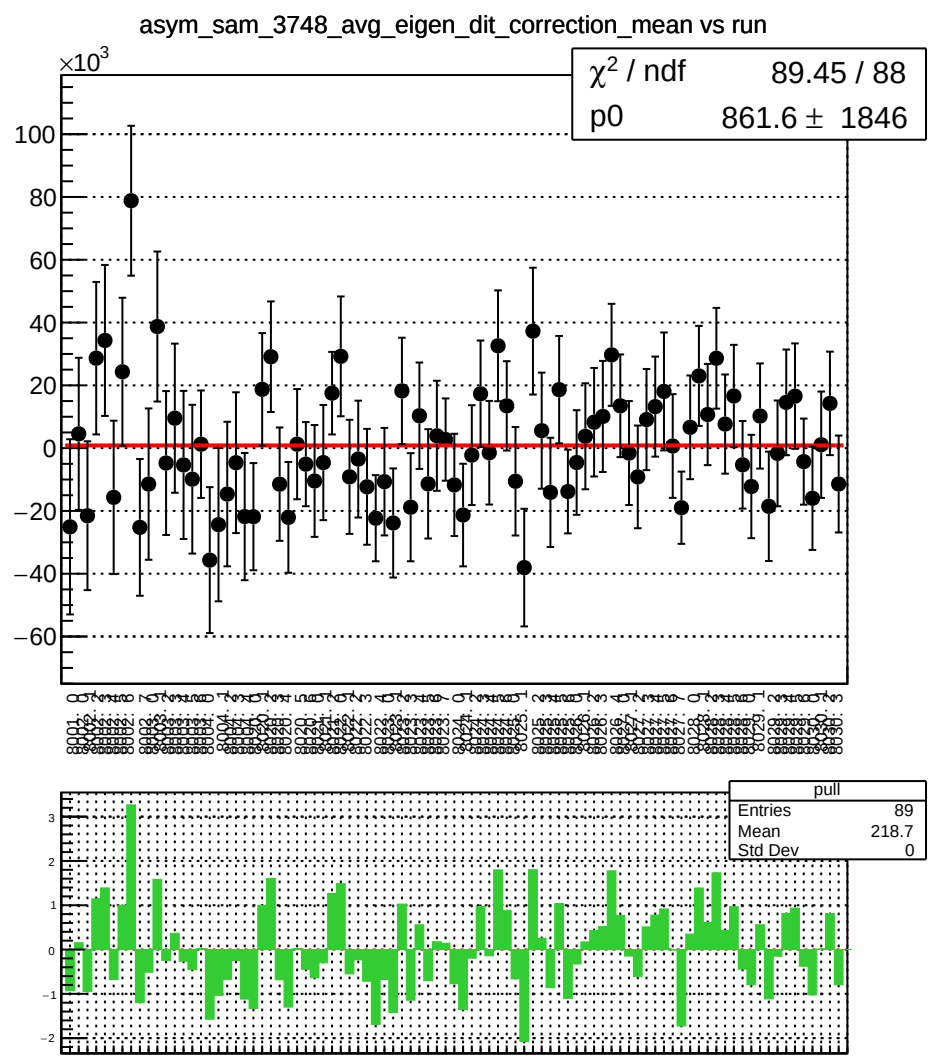

asym_sam_3748_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 89.45 / 88
p0 861.6 ± 1846
pull
Entries 89
Mean 218.7
Std Dev 0

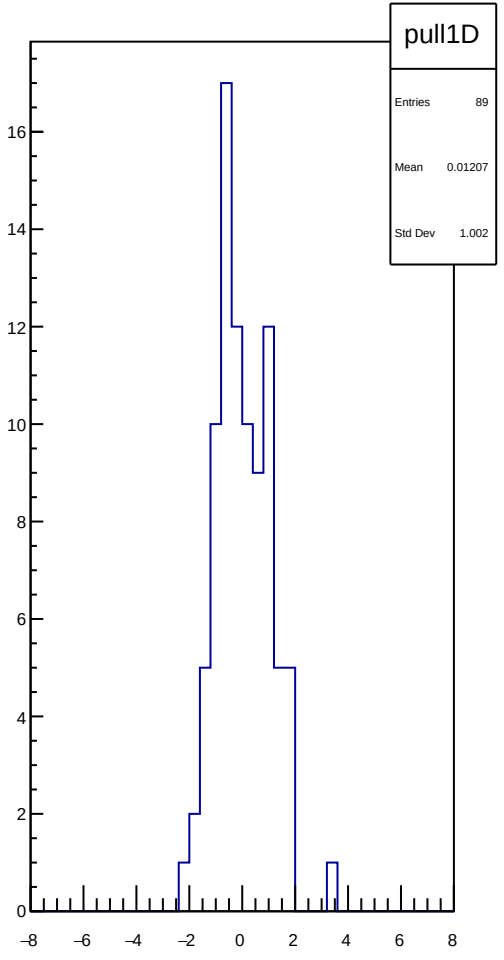

pull1D
Entries 89
Mean 0.01207
Std Dev 1.002

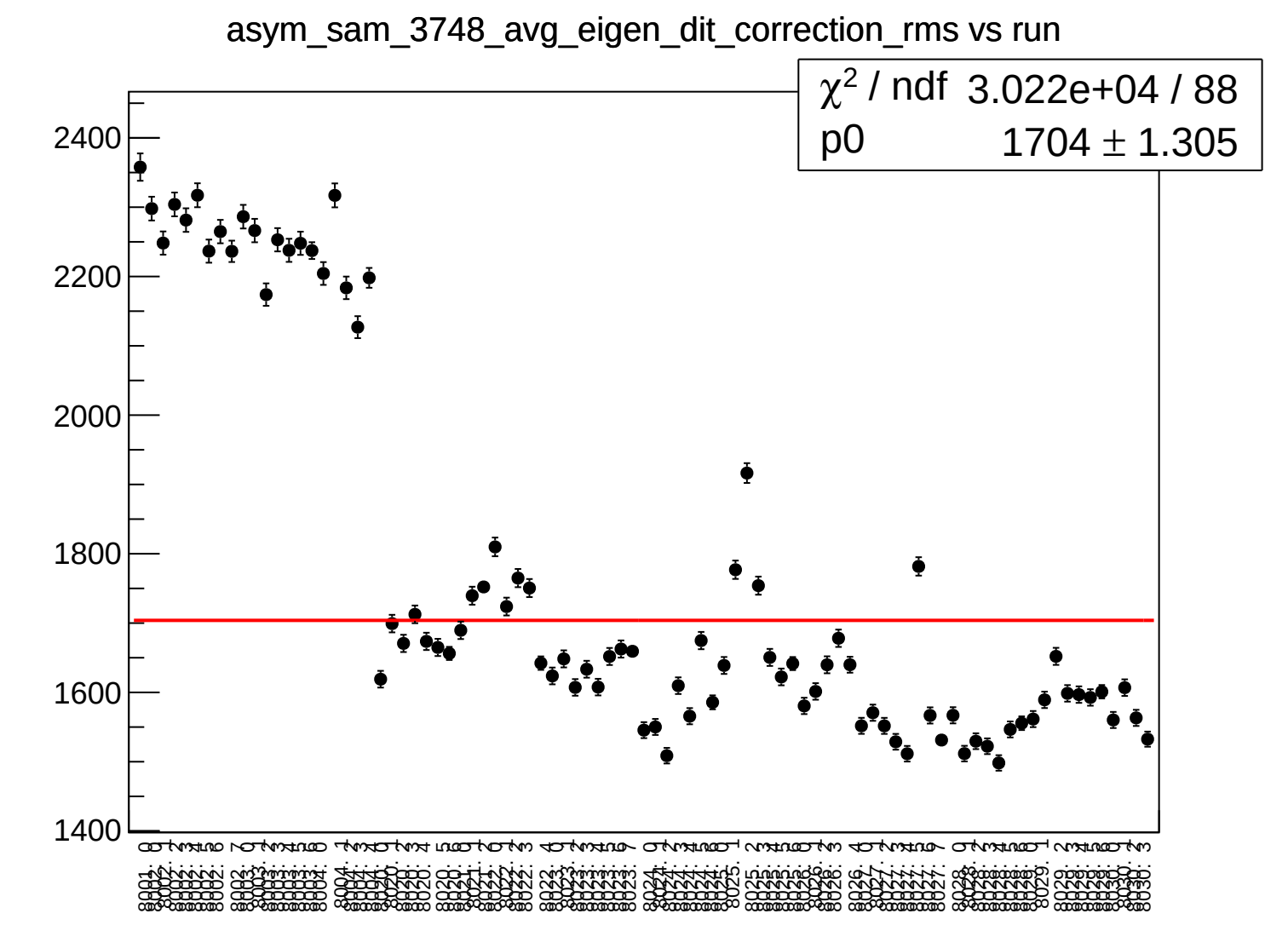

asym_sam_3748_avg_dit_correction_rms vs run
χ² / ndf 3.022e+04 / 88
p0 1704 ± 1.305
2400
2200
2000
1800
1600
1400

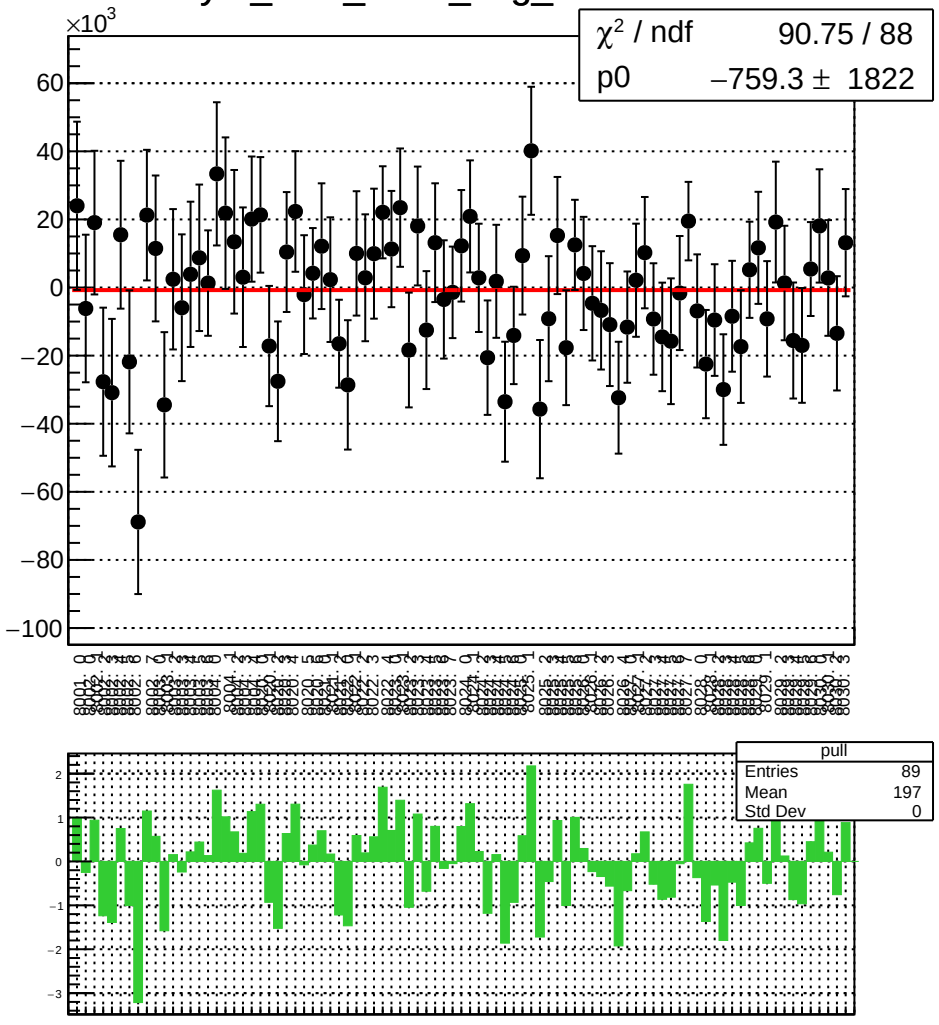

eigen_dit_asym_sam_3748_avg_mean vs run
χ² / ndf 77.3 / 88
p0 60.7 ± 163.5
15000
10000
5000
0
−5000
pull
Entries 89
Mean 352.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.005682
Std Dev 0.9319
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

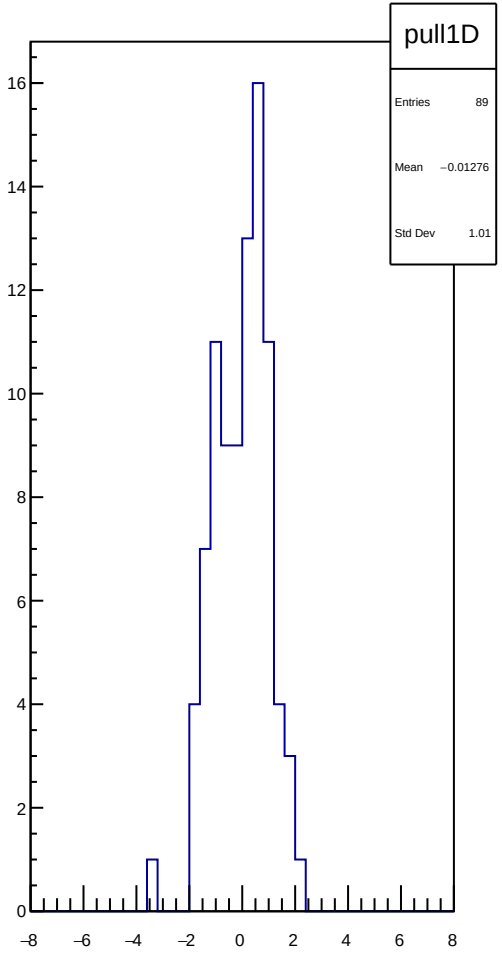

eigen_dit_asym_sam_3748_avg_rms vs run
χ² / ndf 1.283e+05 / 88
p0 146.5 ± 0.1156
350
300
250
200
150
100

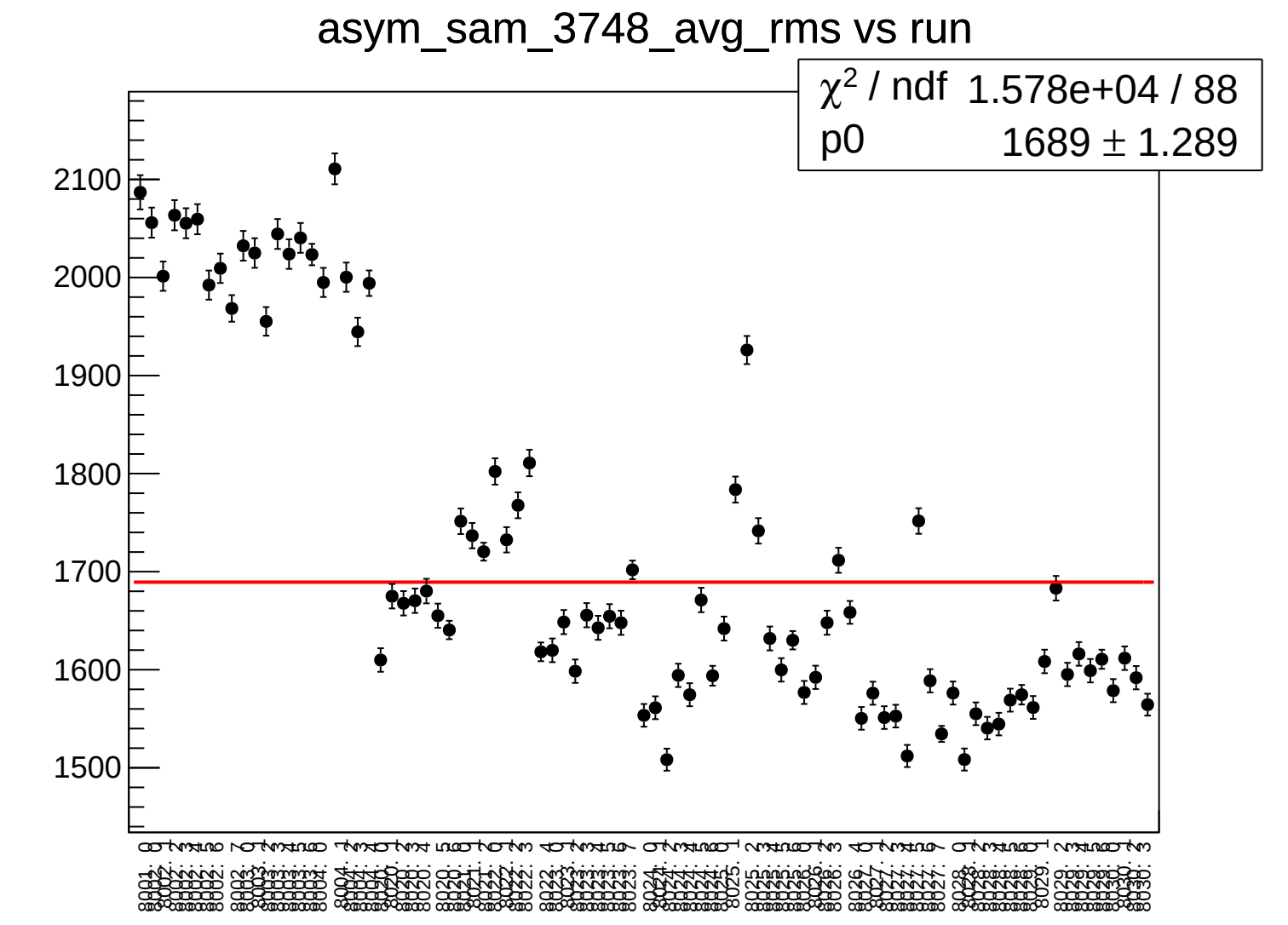

asym_sam_3748_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 89.45 / 88
p0 861.6 ± 1846
pull
Entries 89
Mean 218.7
Std Dev 0

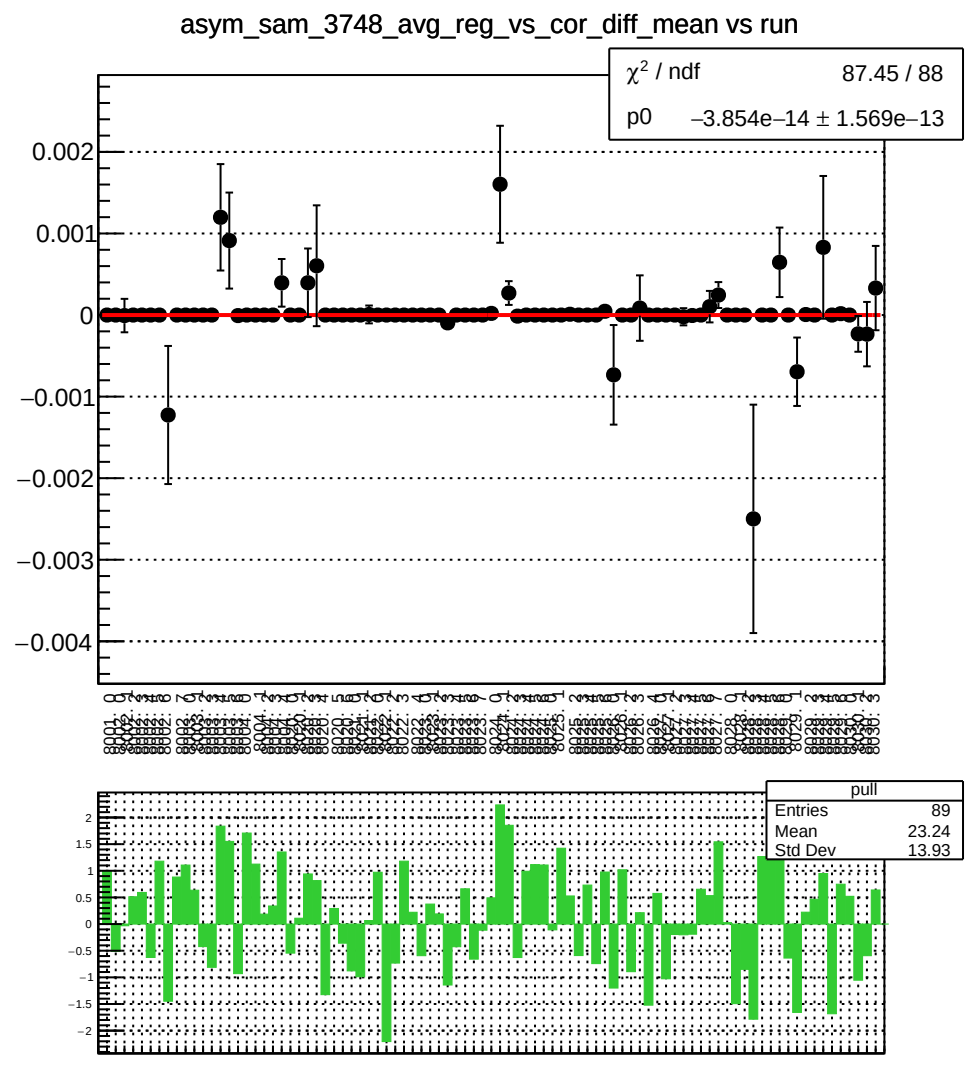

pull1D
Entries 89
Mean 0.01207
Std Dev 1.002

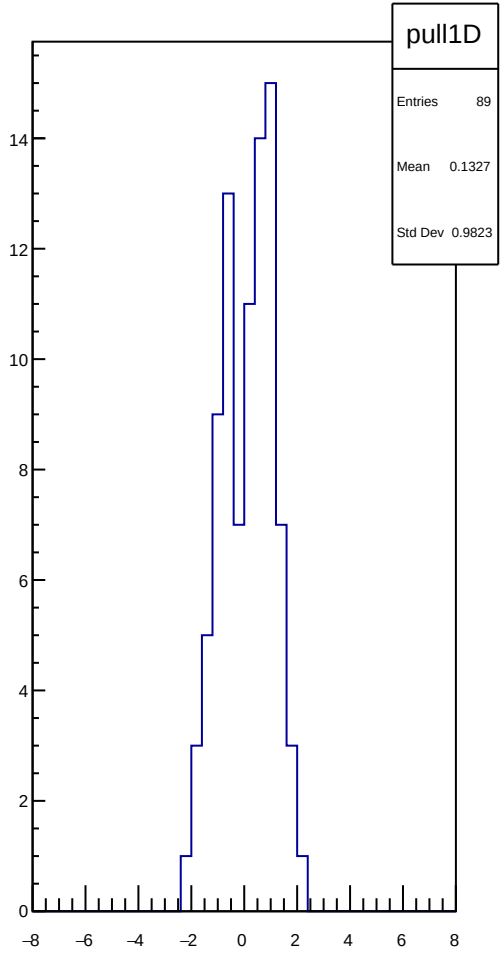

asym_sam_3748_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.022e+04 / 88
p0 1704 ± 1.305
2400
2200
2000
1800
1600
1400

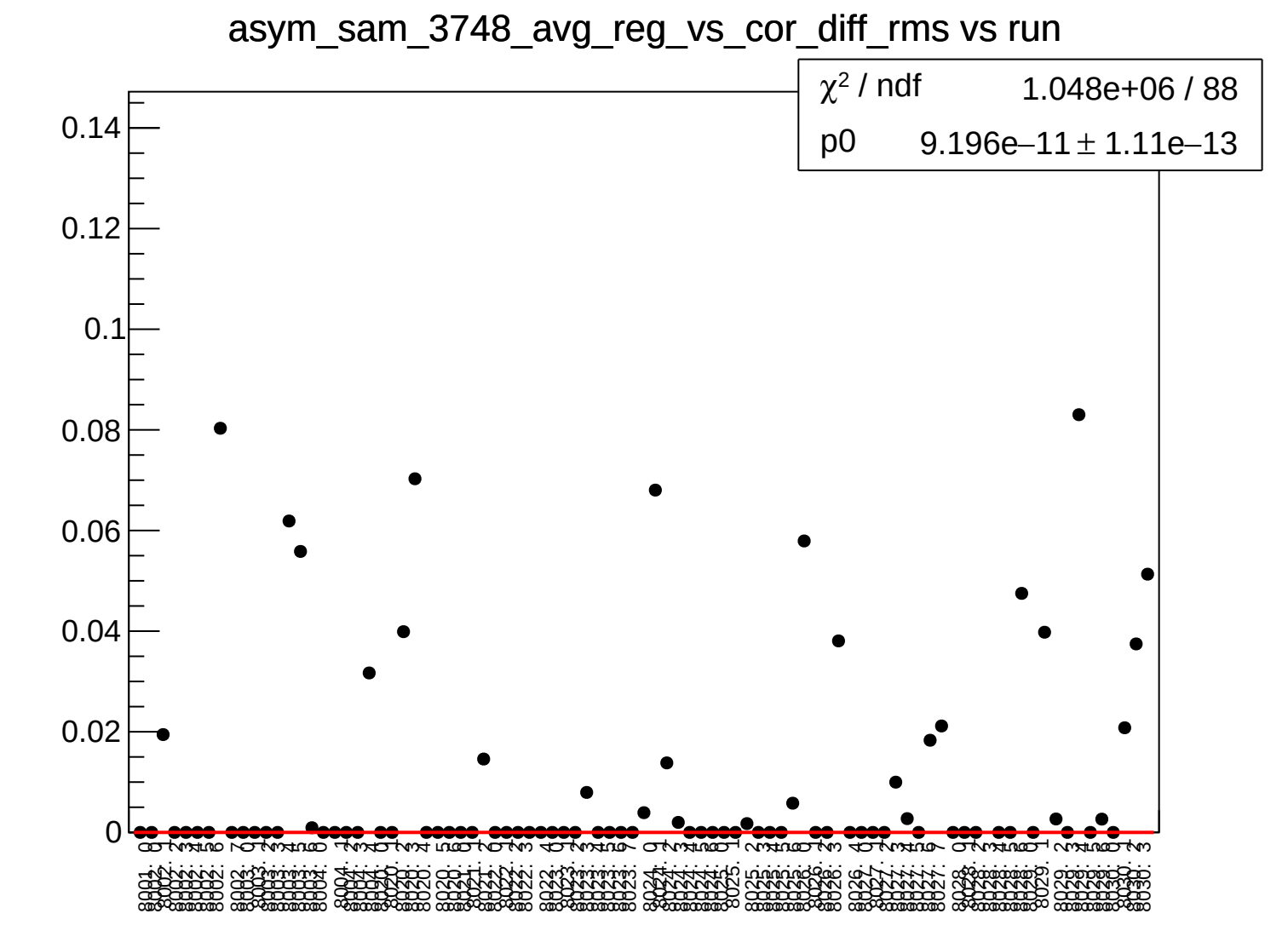

asym_sam_3748_avg_mean vs run
×10^3
χ² / ndf 90.75 / 88
p0 −759.3 ± 1822
pull
Entries 89
Mean 197
Std Dev 0

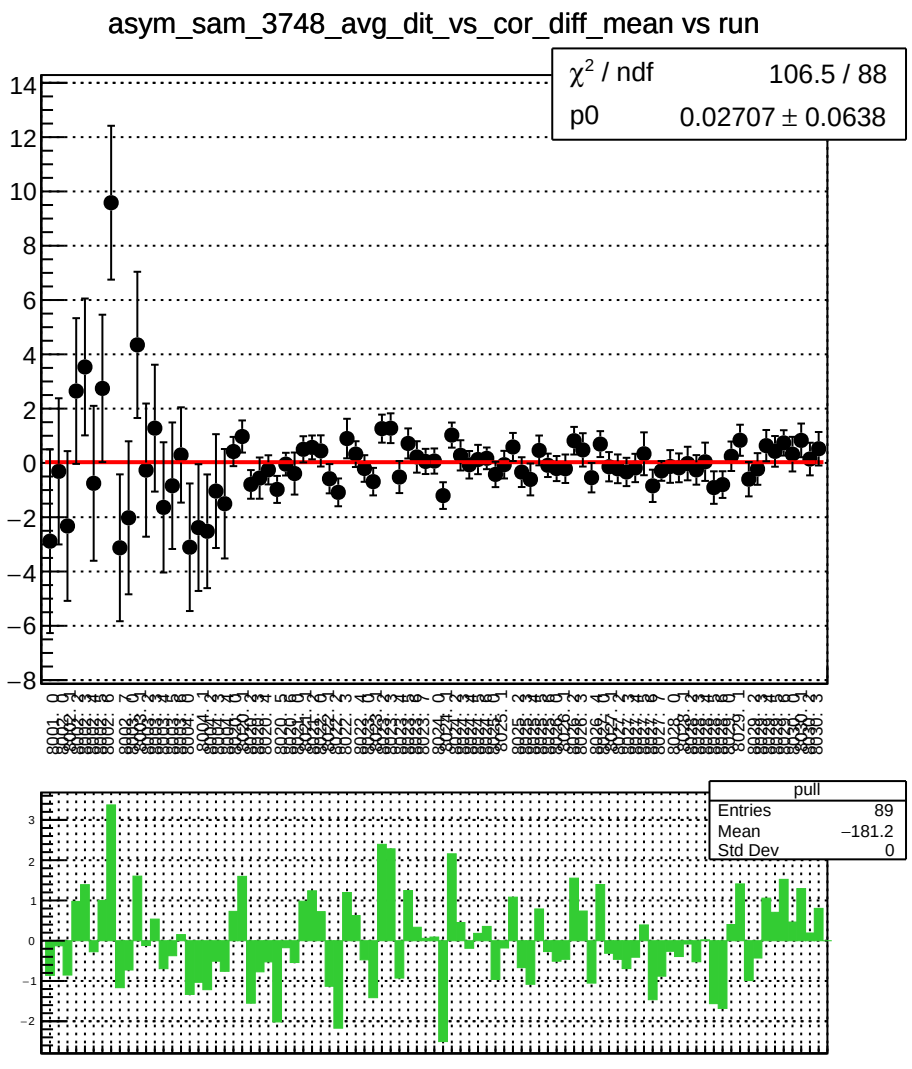

pull1D
Entries 89
Mean −0.01276
Std Dev 1.01

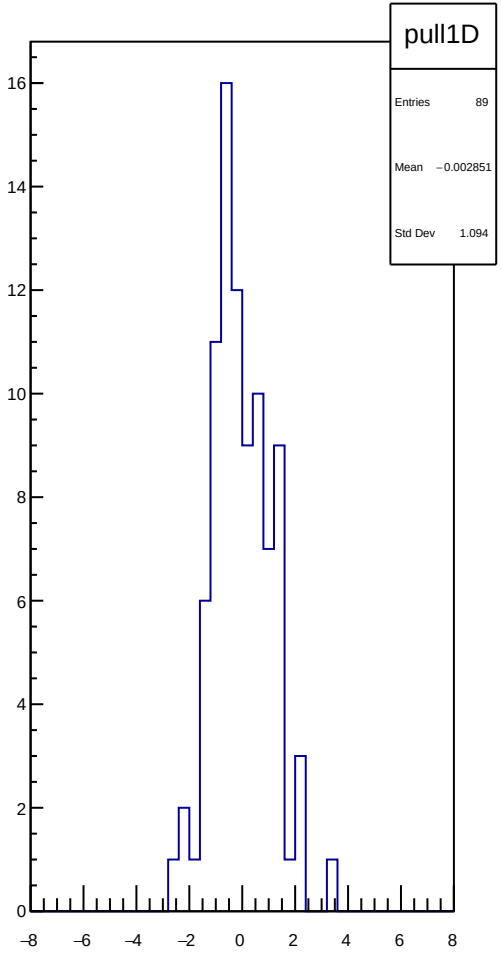

asym_sam_3748_avg_rms vs run
χ² / ndf 1.578e+04 / 88
p0 1689 ± 1.289
2100
2000
1900
1800
1700
1600
1500

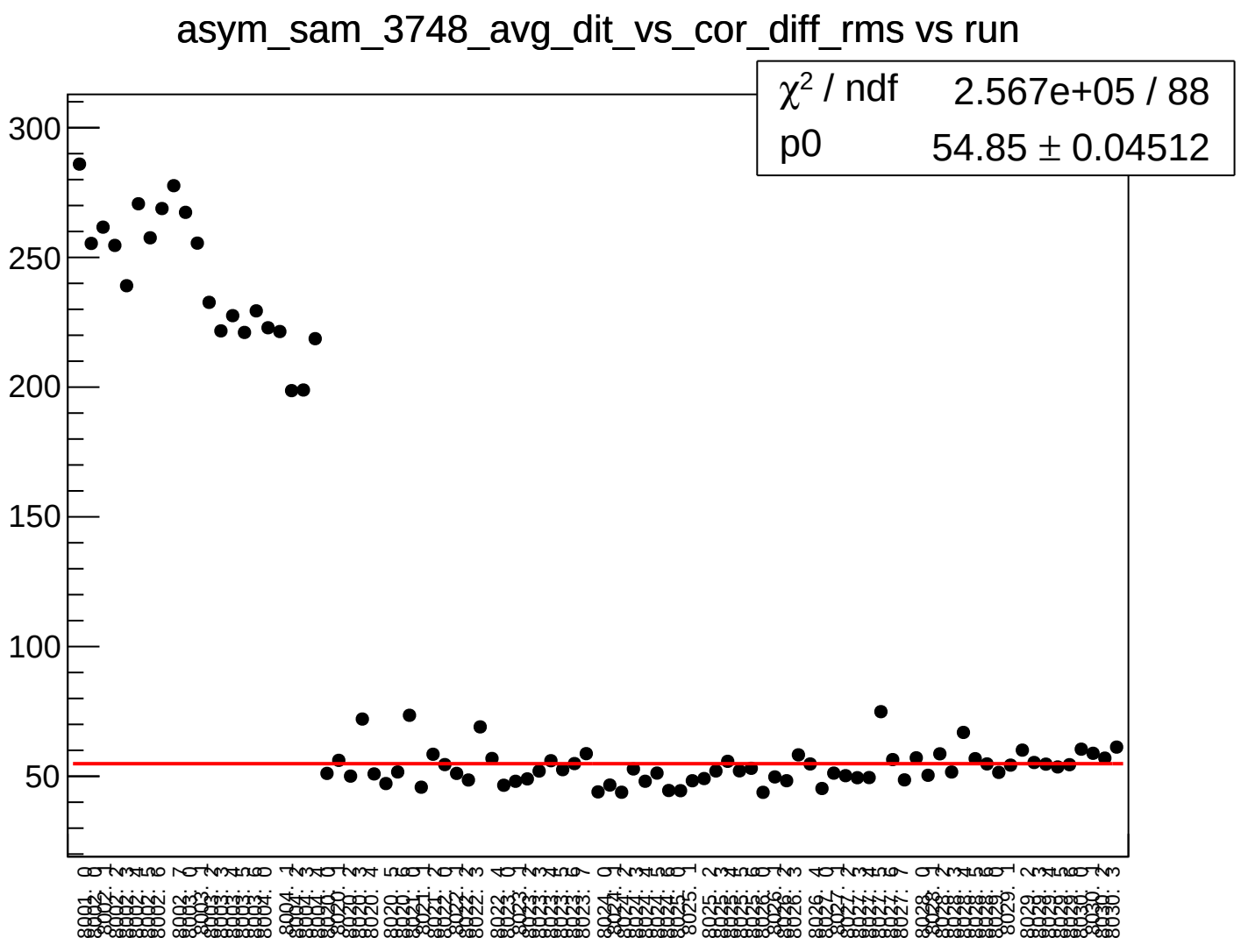

asym_sam_3748_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 87.45 / 88
p0 −3.854e−14 ± 1.569e−13
0.002
0.001
0
−0.001
−0.002
−0.003
−0.004
pull
Entries 89
Mean 23.24
Std Dev 13.93
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

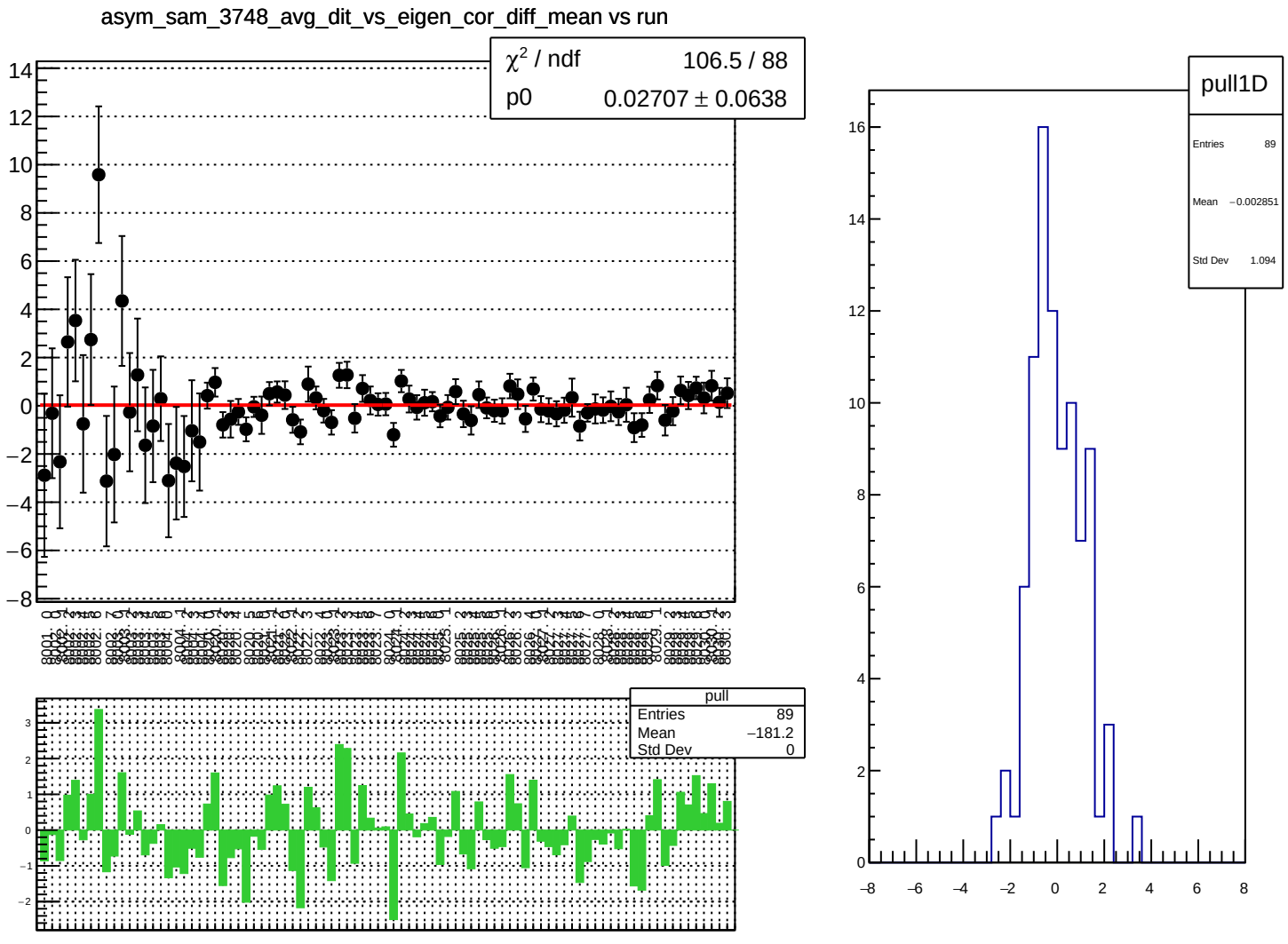

pull1D
Entries 89
Mean 0.1327
Std Dev 0.9823
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

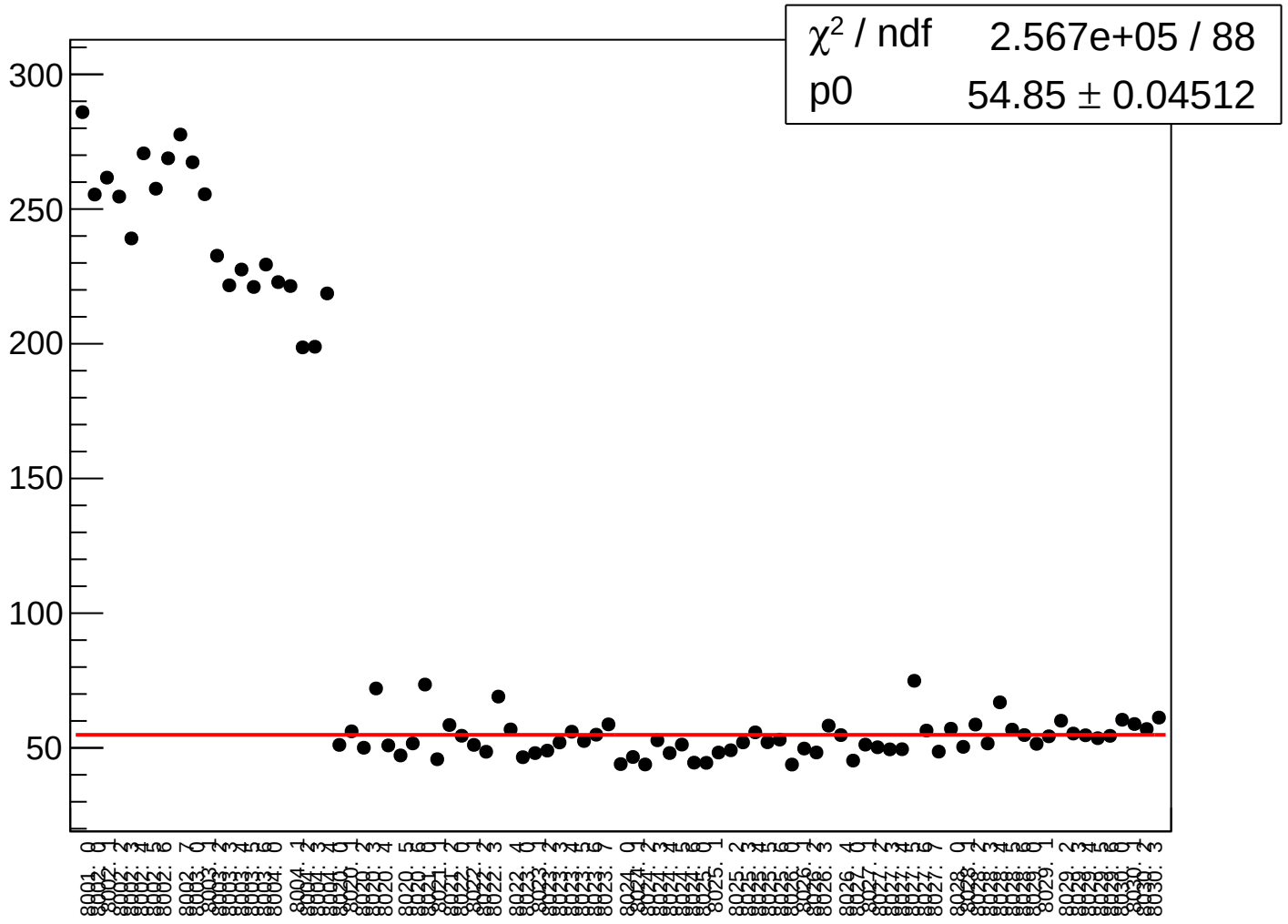

asym_sam_3748_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.048e+06 / 88
p0 9.196e−11 ± 1.11e−13
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

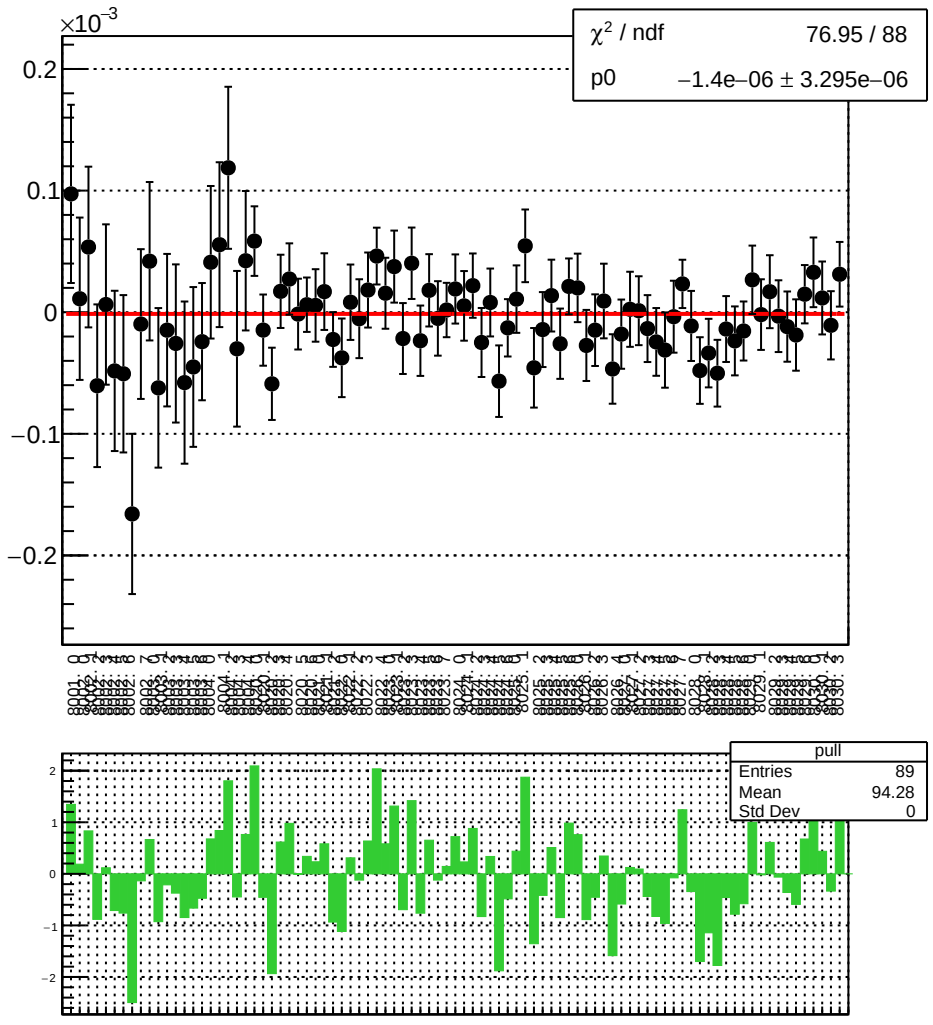

asym_sam_3748_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 106.5 / 88
p0 0.02707 ± 0.0638
pull
Entries 89
Mean −181.2
Std Dev 0

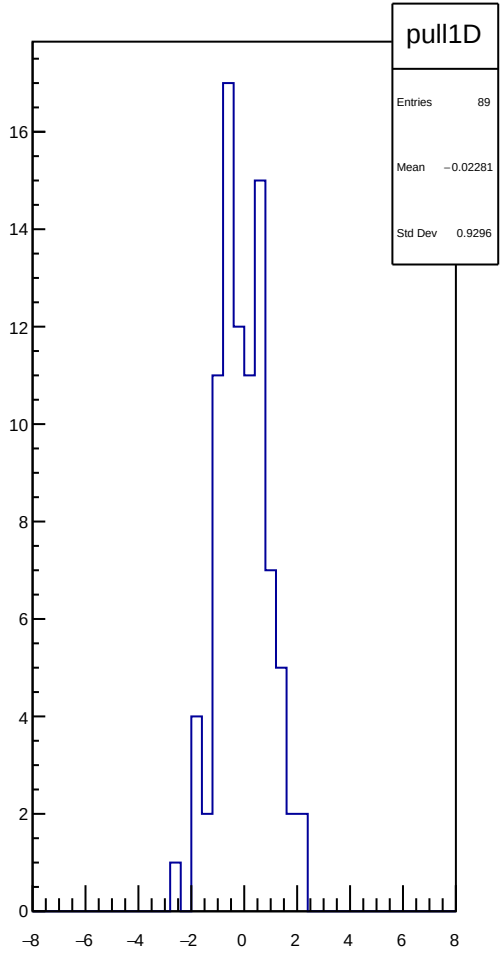

pull1D
Entries 89
Mean −0.002851
Std Dev 1.094

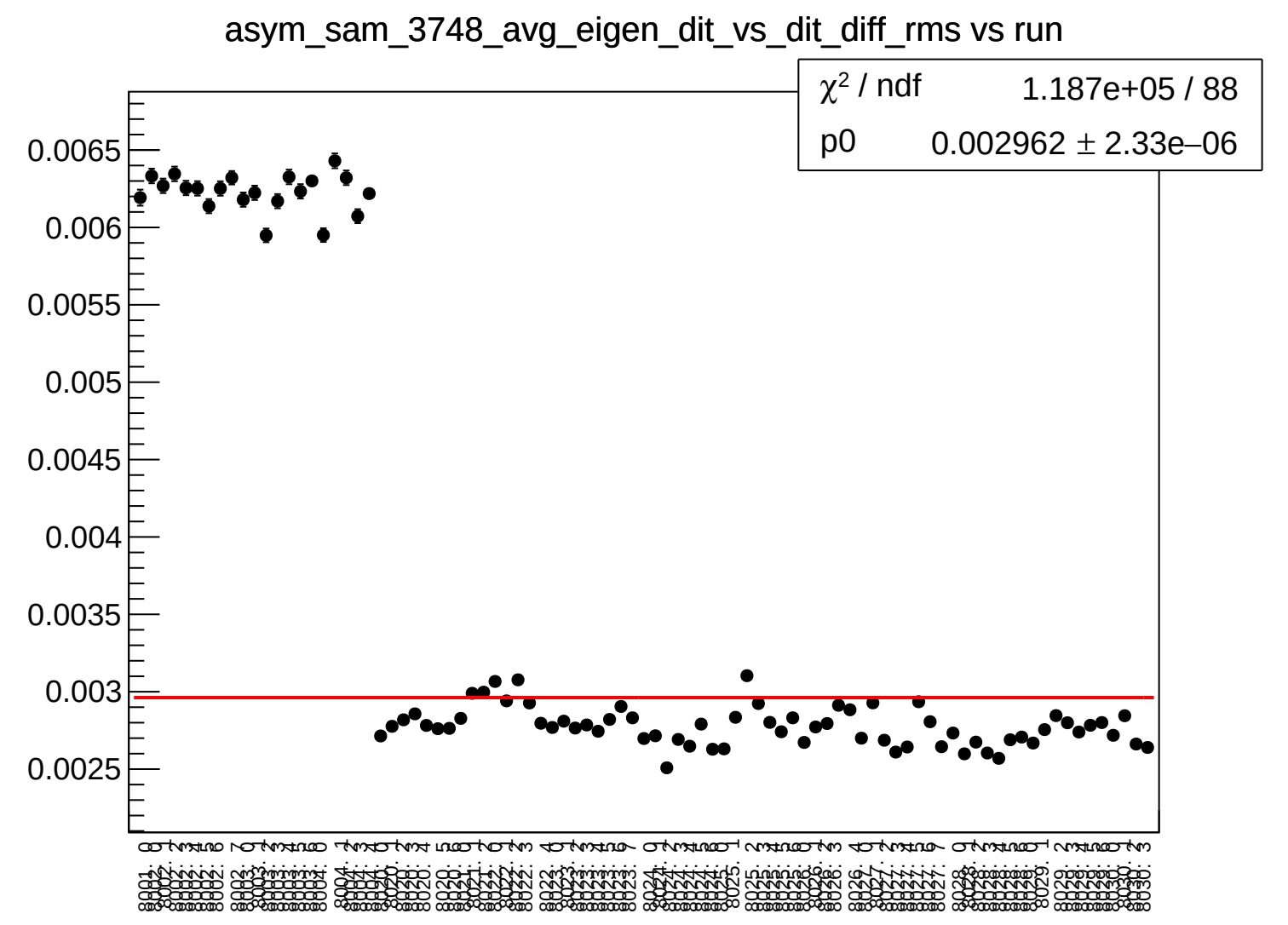

asym_sam_3748_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.567e+05 / 88
p0 54.85 ± 0.04512
300
250
200
150
100
50

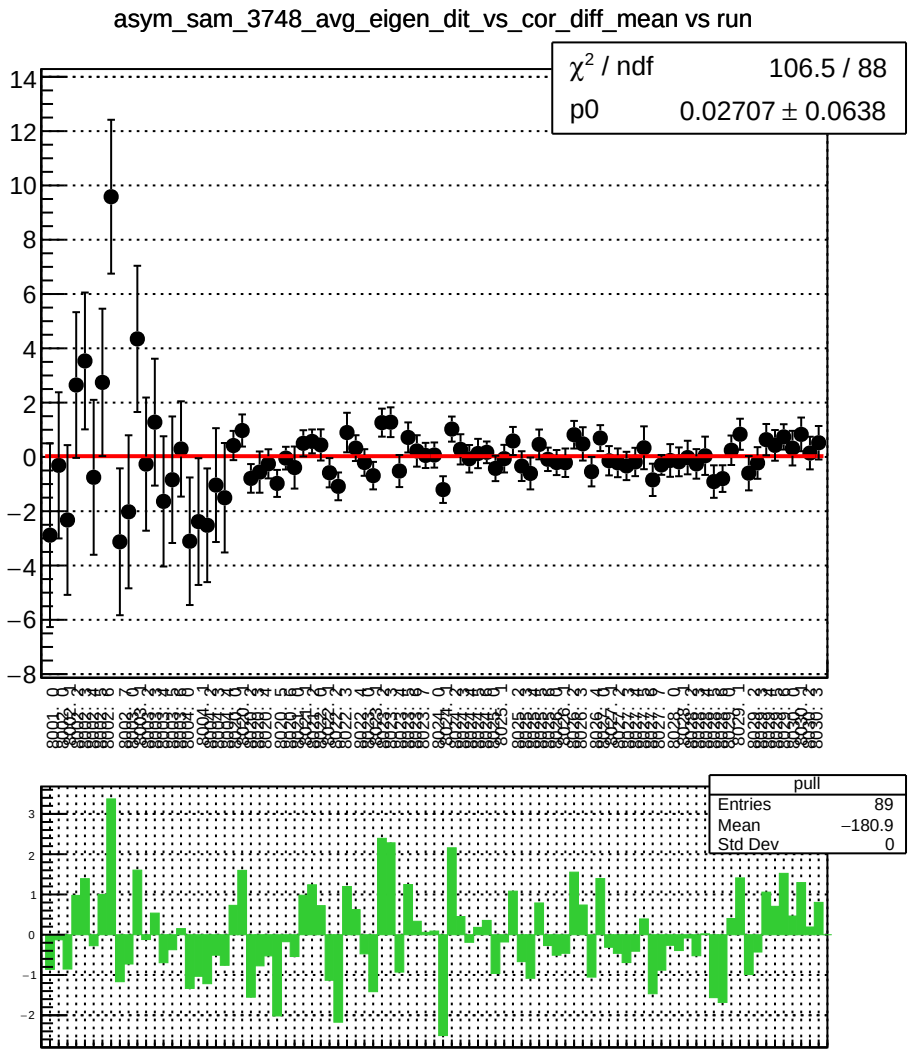

asym_sam_3748_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.5 / 88
p0 0.02707 ± 0.0638
pull
Entries 89
Mean −181.2
Std Dev 0
pull1D
Entries 89
Mean −0.002851
Std Dev 1.094

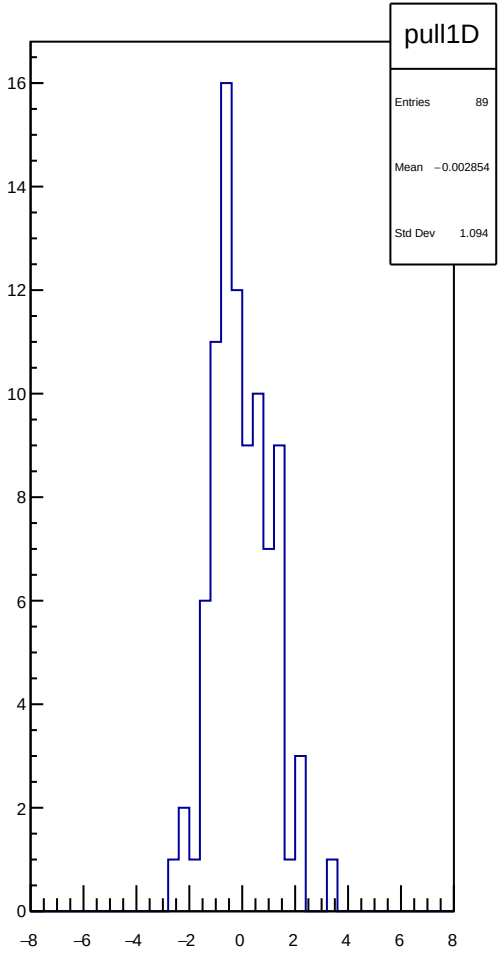

asym_sam_3748_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.567e+05 / 88
p0 54.85 ± 0.04512
300
250
200
150
100
50

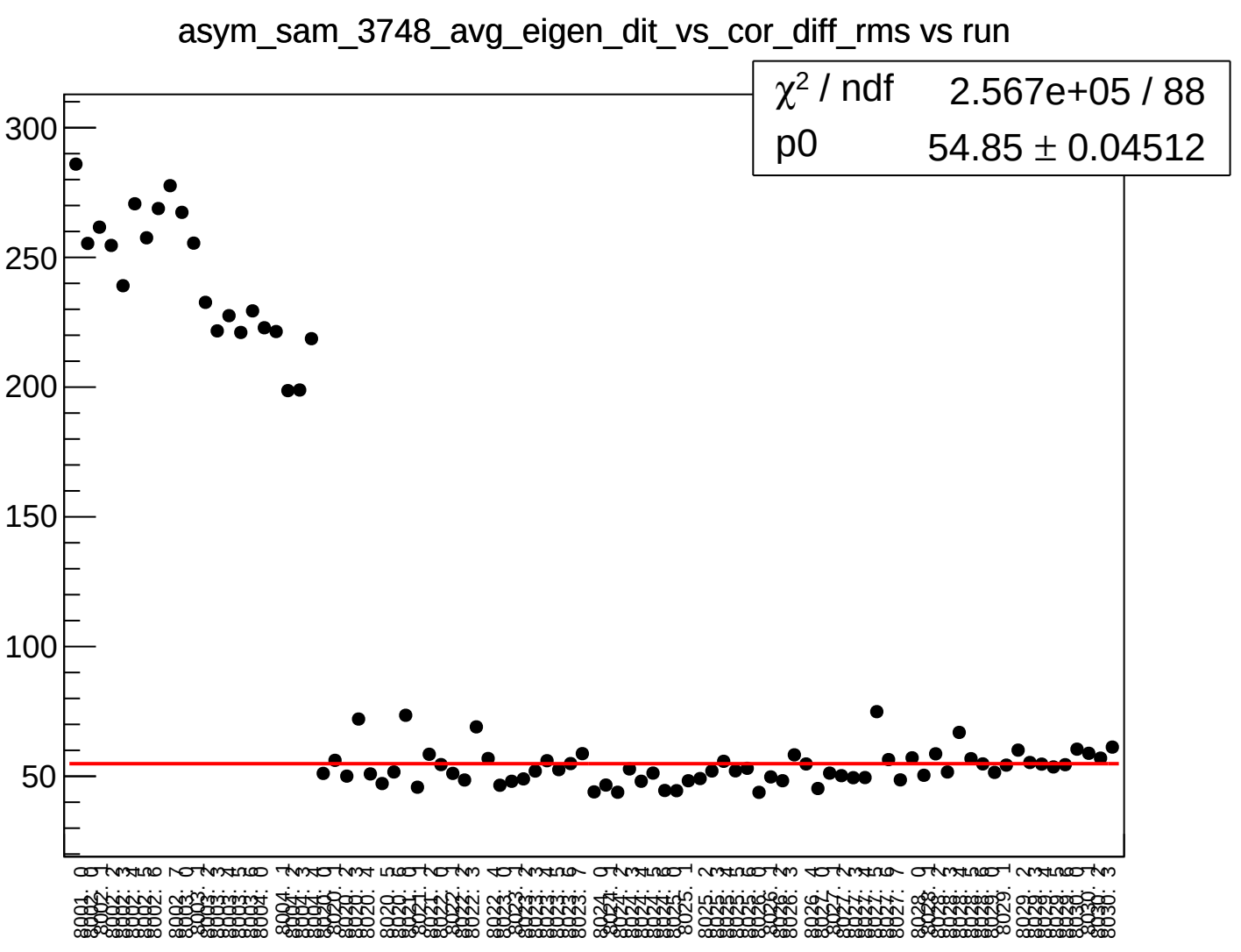

asym_sam_3748_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.95 / 88
p0 −1.4e−06 ± 3.295e−06
pull
Entries 89
Mean 94.28
Std Dev 0

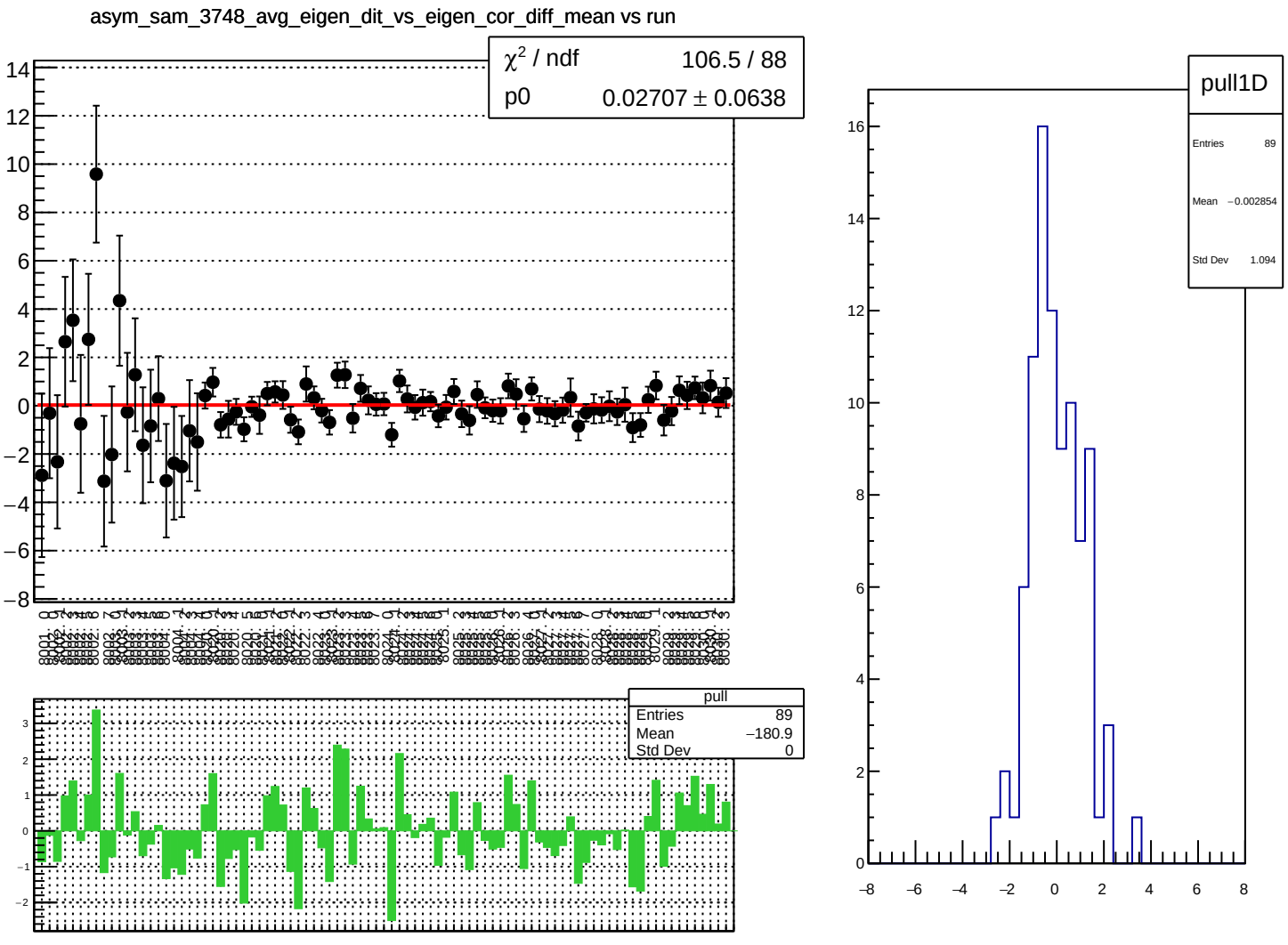

pull1D
Entries 89
Mean −0.02281
Std Dev 0.9296

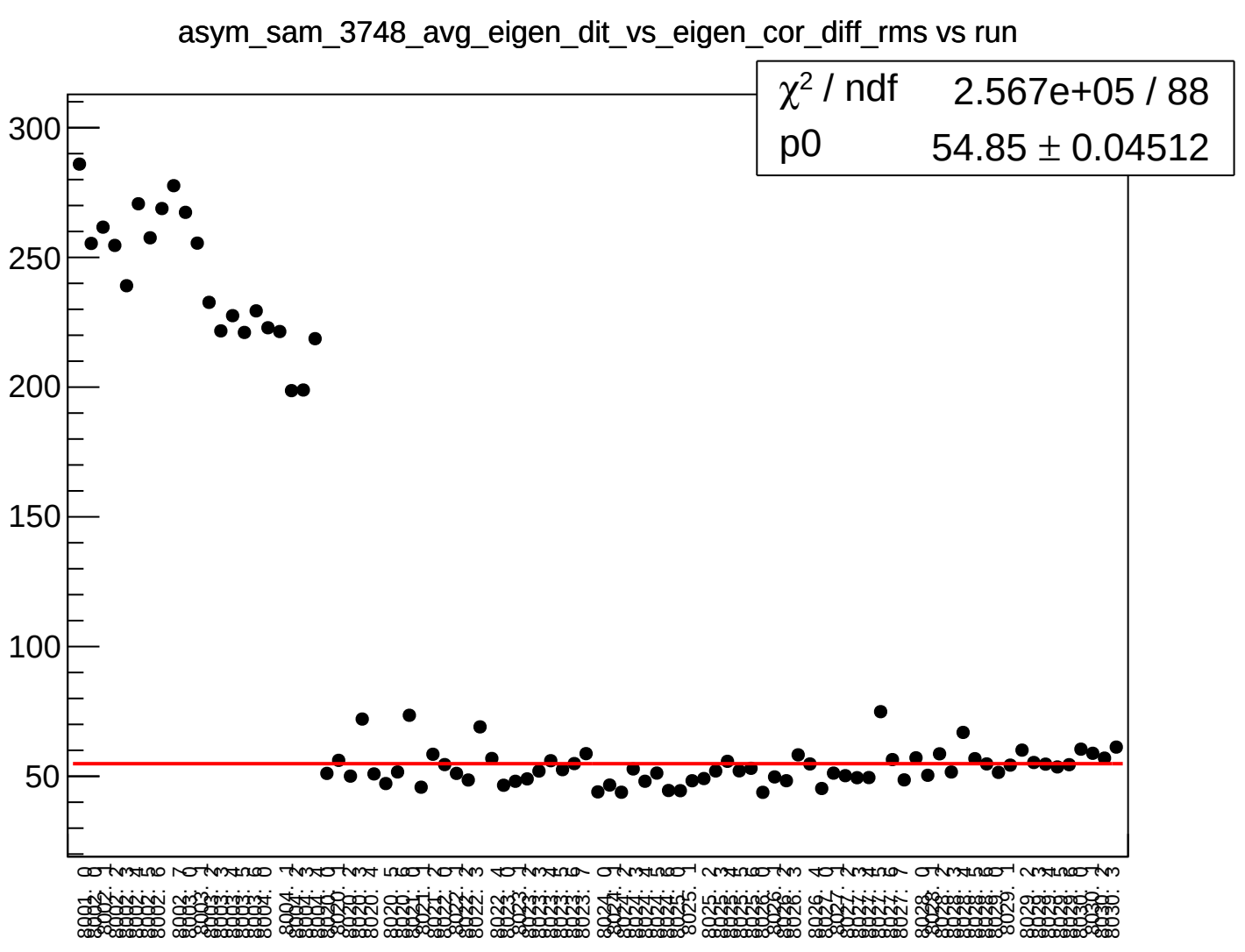

asym_sam_3748_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.187e+05 / 88
p0 0.002962 ± 2.33e−06
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025

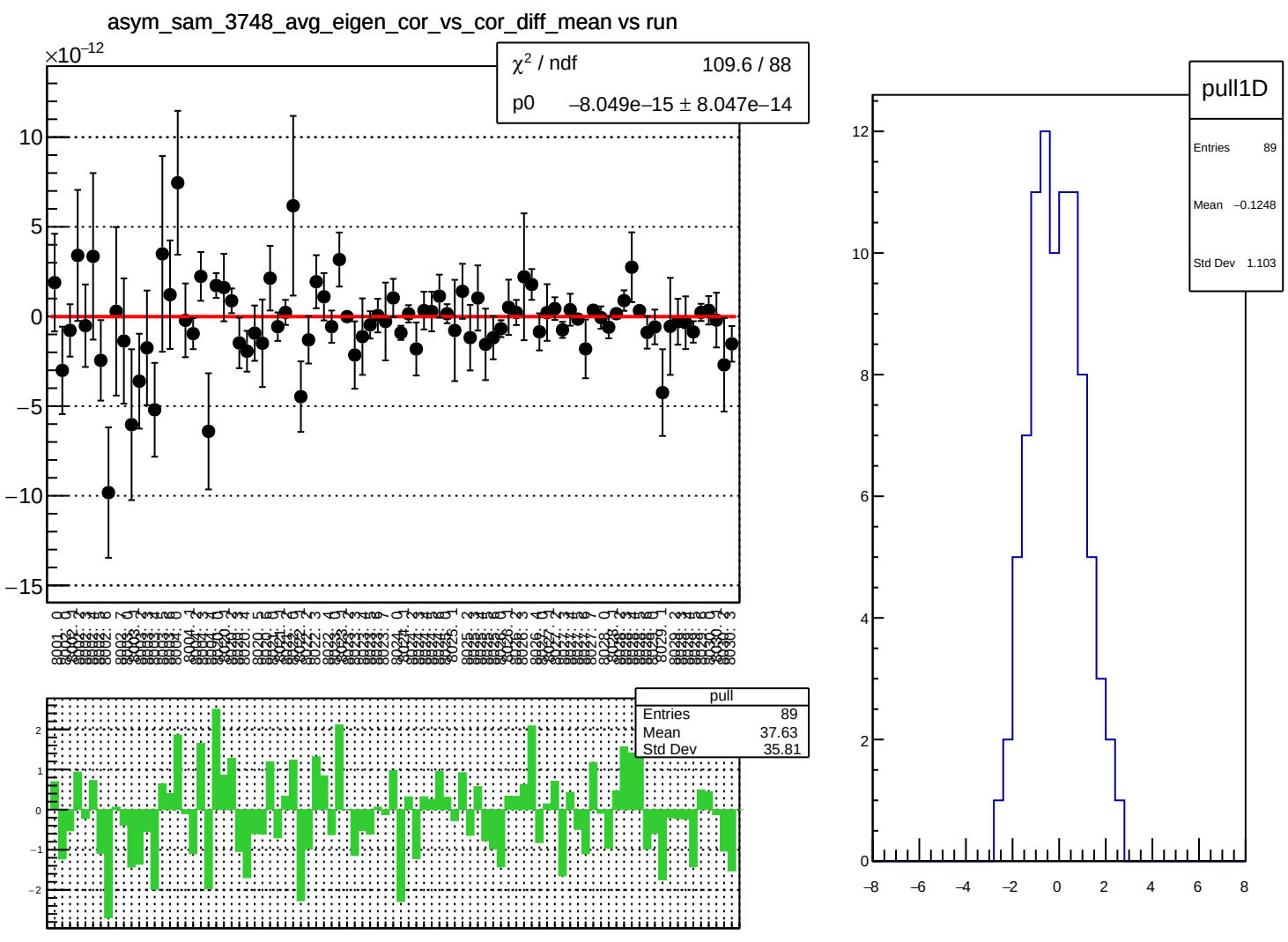

asym_sam_3748_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 106.5 / 88
p0 0.02707 ± 0.0638
pull
Entries 89
Mean −180.9
Std Dev 0

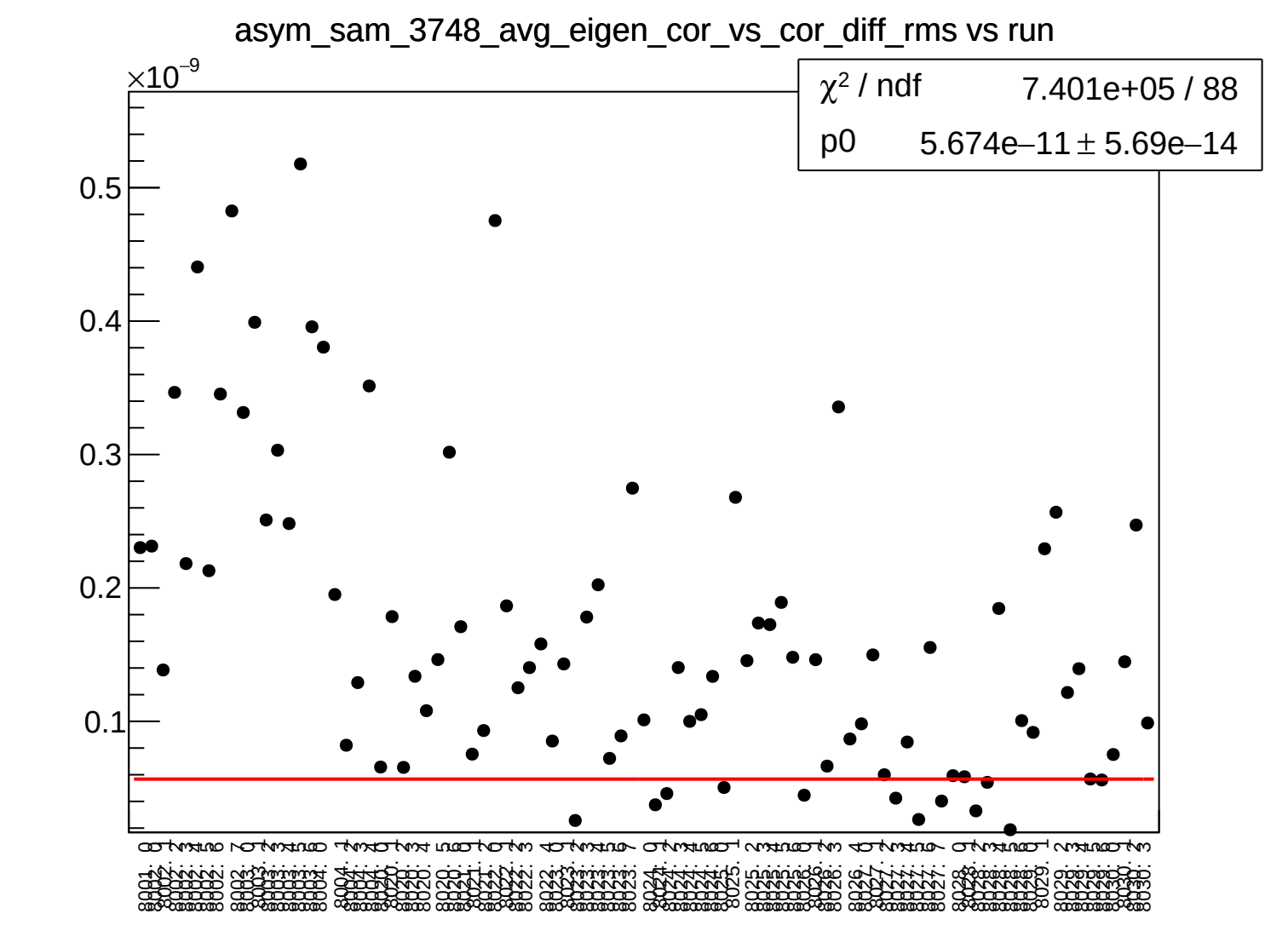

pull1D
Entries 89
Mean −0.002854
Std Dev 1.094

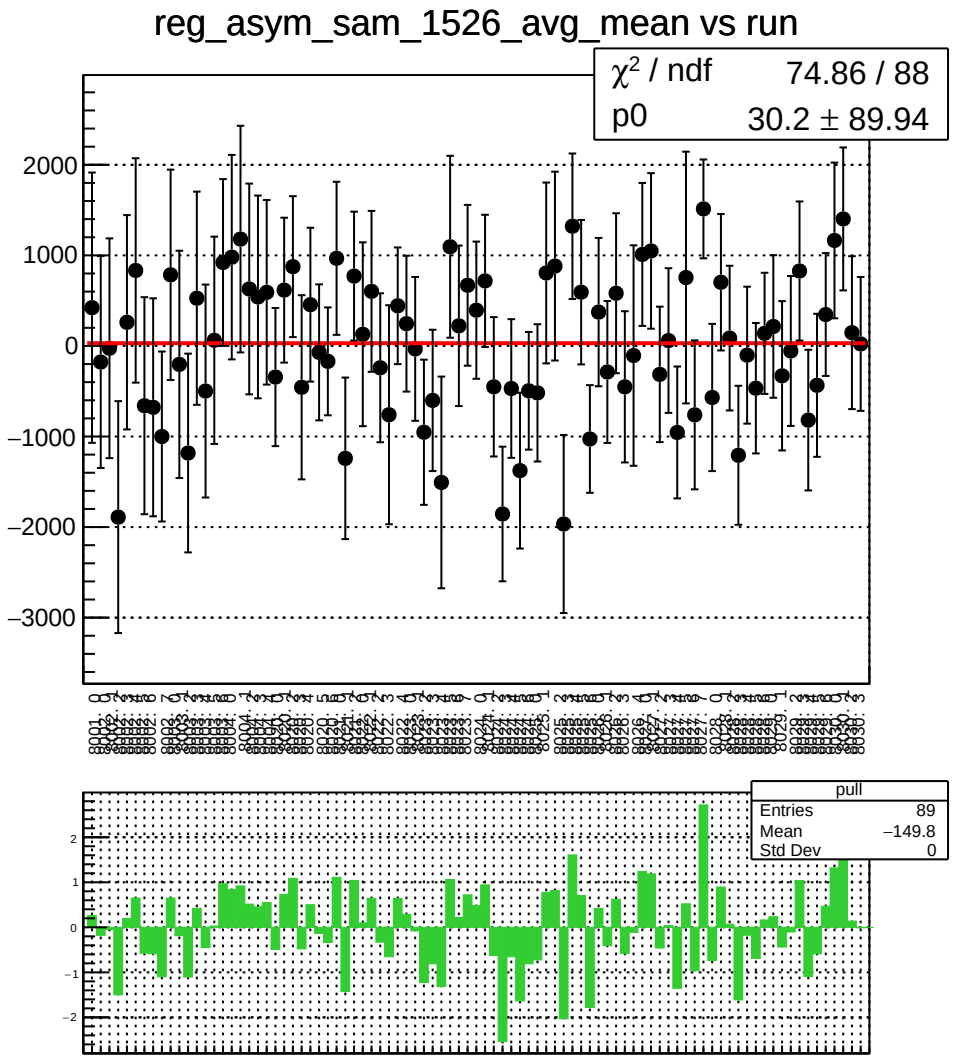

asym_sam_3748_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.567e+05 / 88
p0 54.85 ± 0.04512
300
250
200
150
100
50

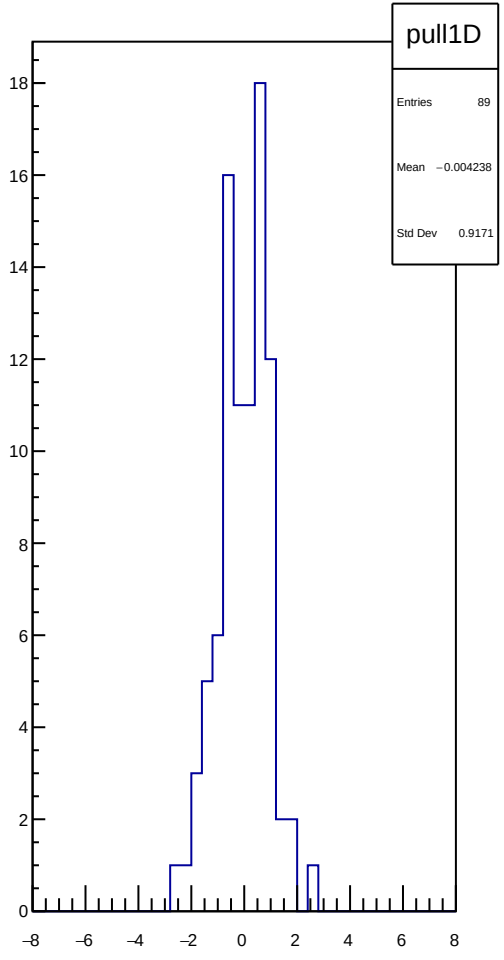

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.5 / 88
p0 0.02707 ± 0.0638
pull
Entries 89
Mean −180.9
Std Dev 0
pull1D
Entries 89
Mean −0.002854
Std Dev 1.094

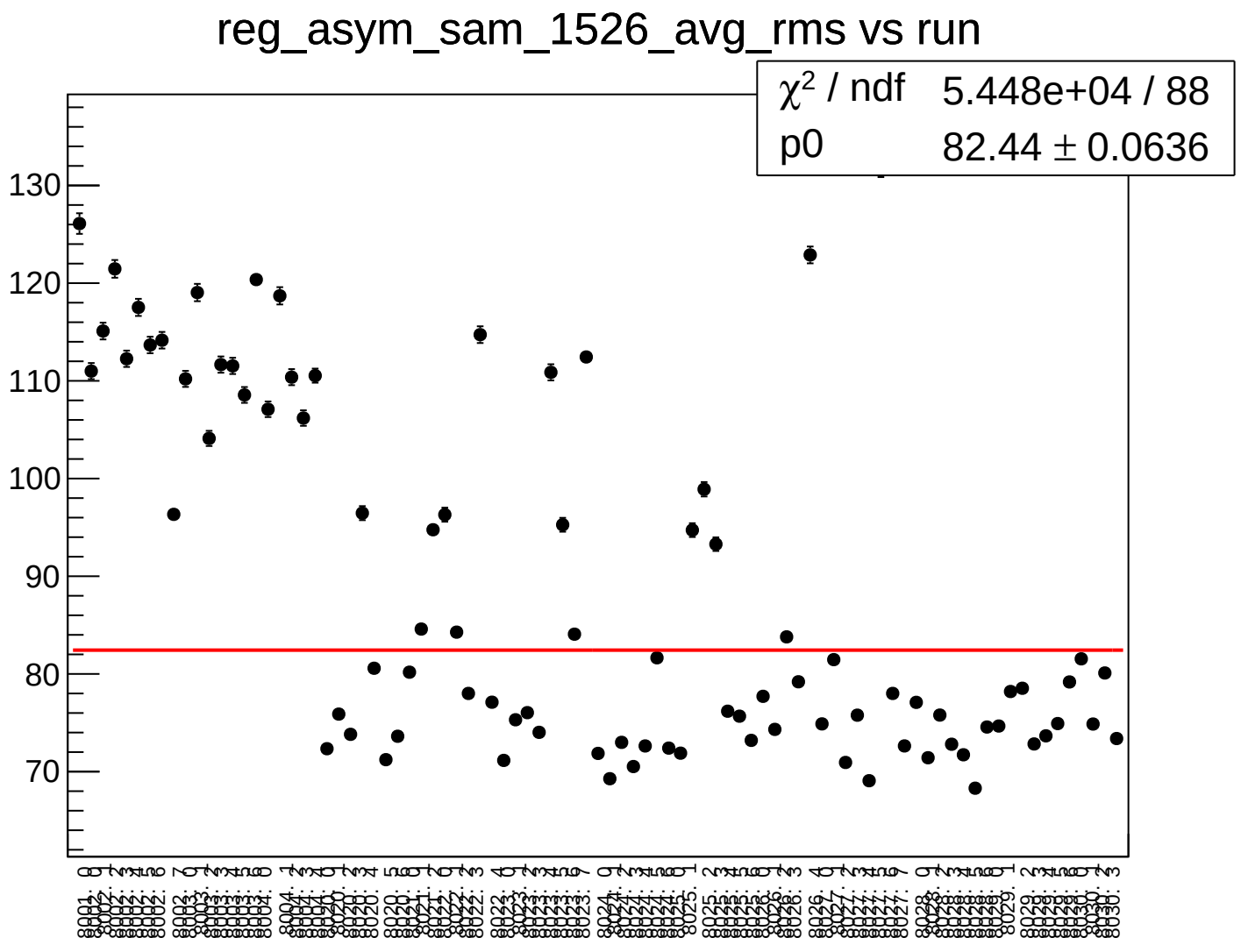

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.567e+05 / 88
p0 54.85 ± 0.04512
300
250
200
150
100
50

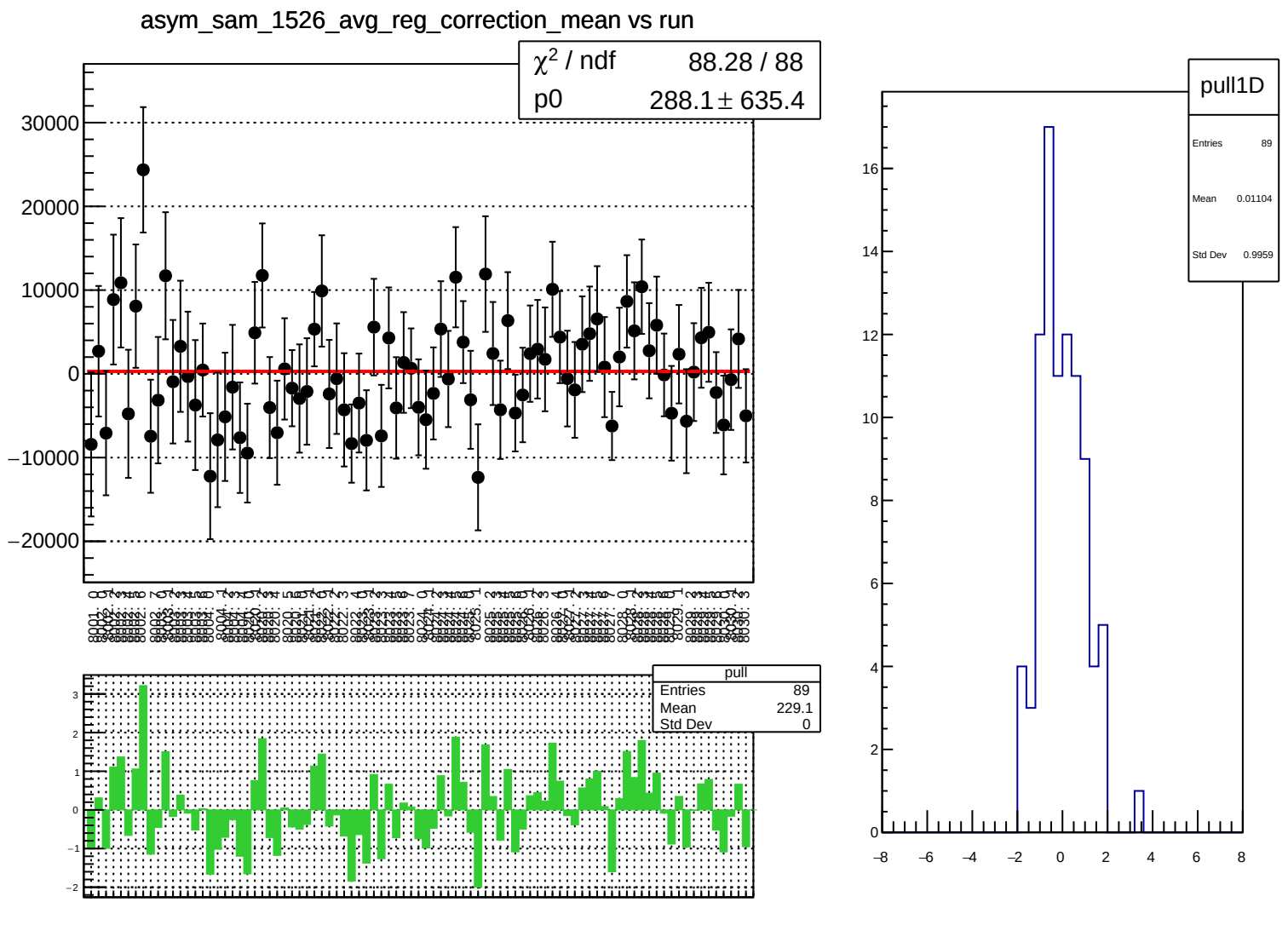

asym_sam_3748_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 109.6 / 88
p0 −8.049e−15 ± 8.047e−14
pull
Entries 89
Mean 37.63
Std Dev 35.81
pull1D
Entries 89
Mean −0.1248
Std Dev 1.103

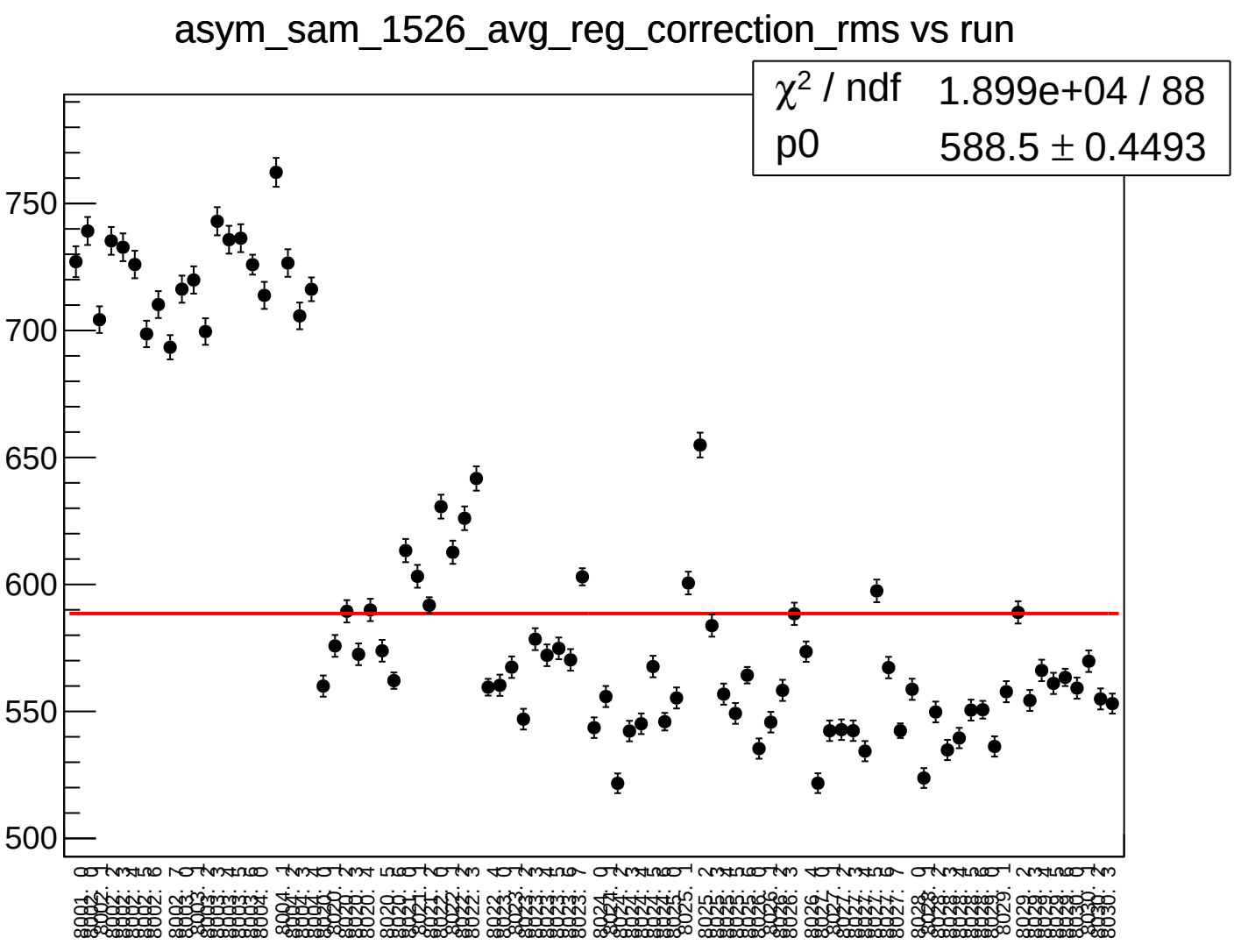

asym_sam_3748_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.401e+05 / 88
p0 5.674e−11 ± 5.69e−14
0.5
0.4
0.3
0.2
0.1

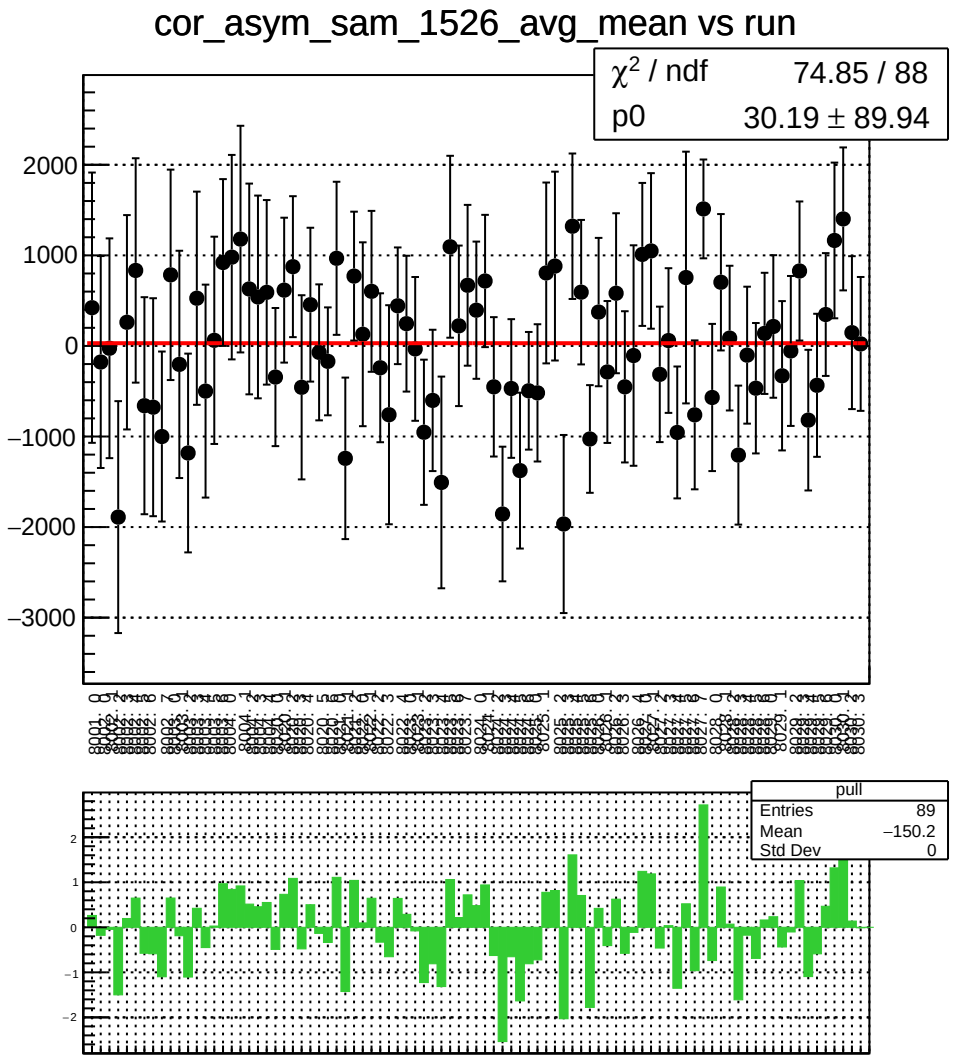

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 74.86 / 88
p0 30.2 ± 89.94
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean −149.8
Std Dev 0
2
1
0
−1
−2

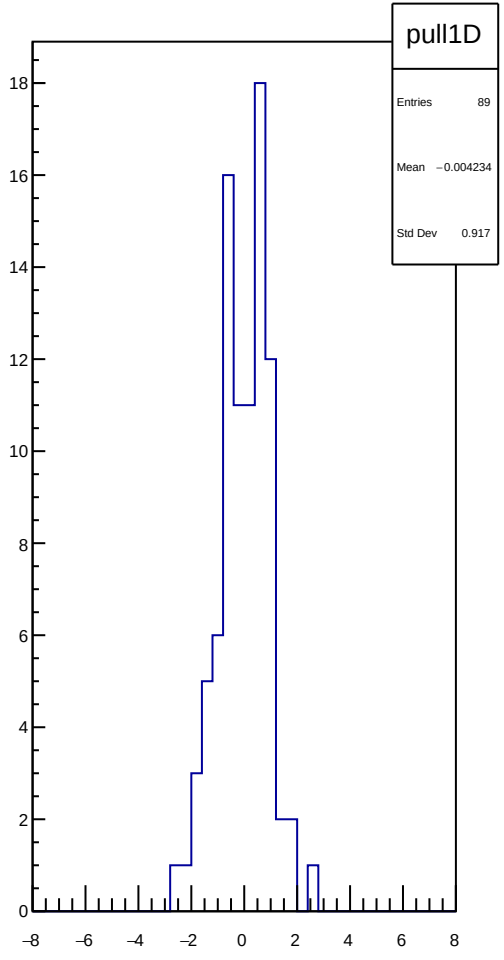

pull1D
Entries 89
Mean −0.004238
Std Dev 0.9171
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

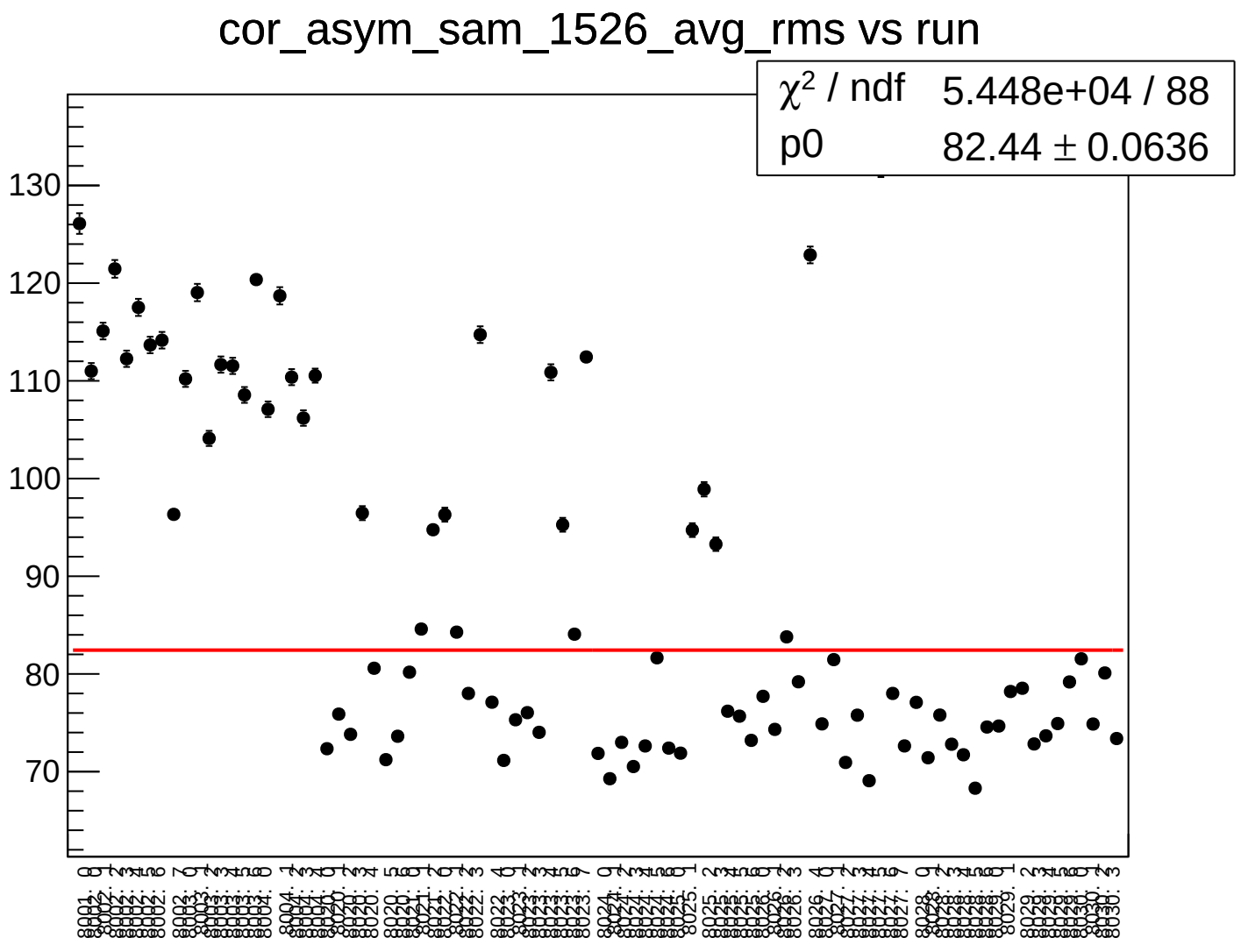

reg_asym_sam_1526_avg_rms vs run
χ^2 / ndf 5.448e+04 / 88
p0 82.44 ± 0.0636
130
120
110
100
90
80
70

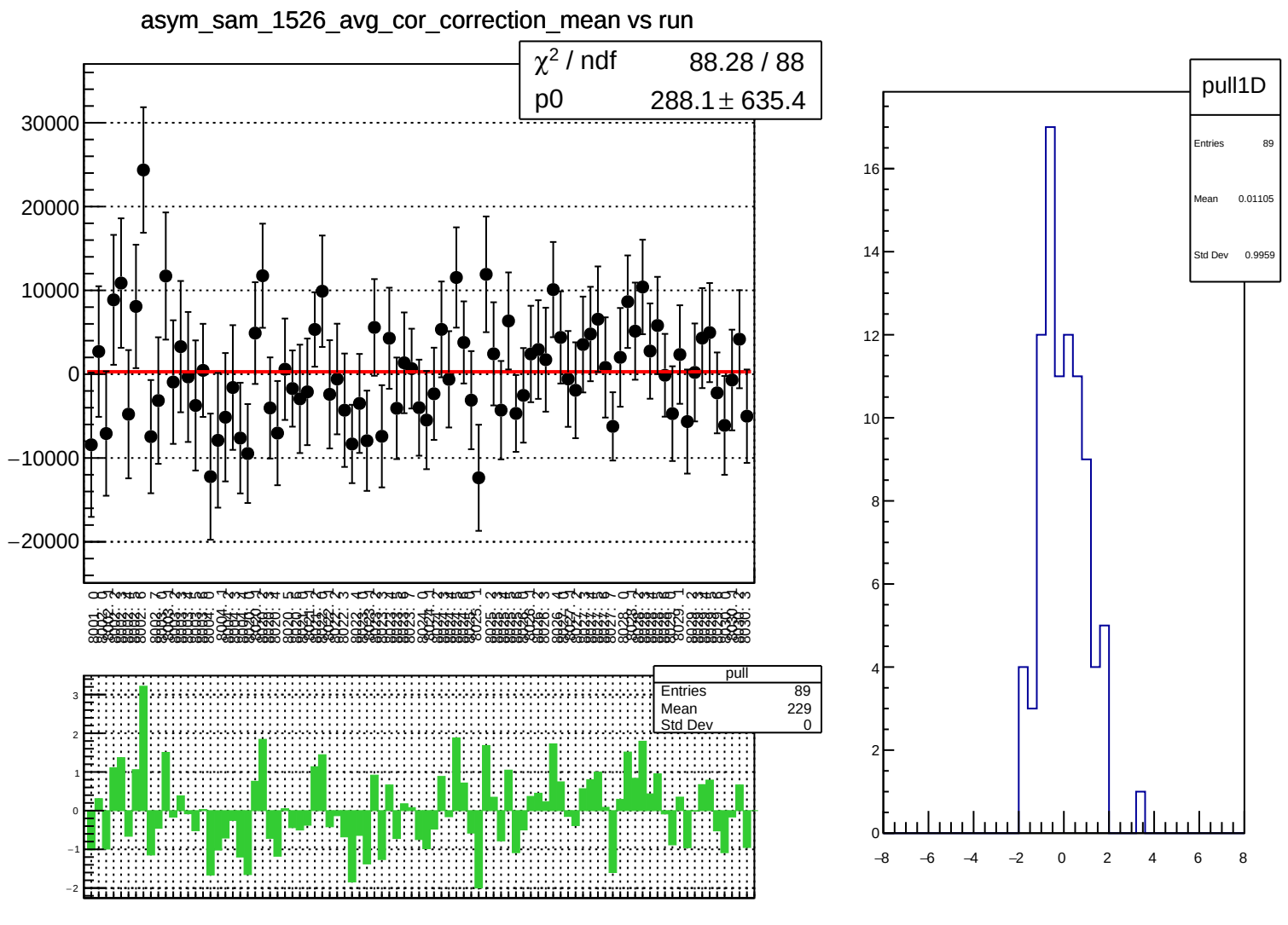

asym_sam_1526_avg_reg_correction_mean vs run
χ² / ndf 88.28 / 88
p0 288.1 ± 635.4
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 229.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.01104
Std Dev 0.9959
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

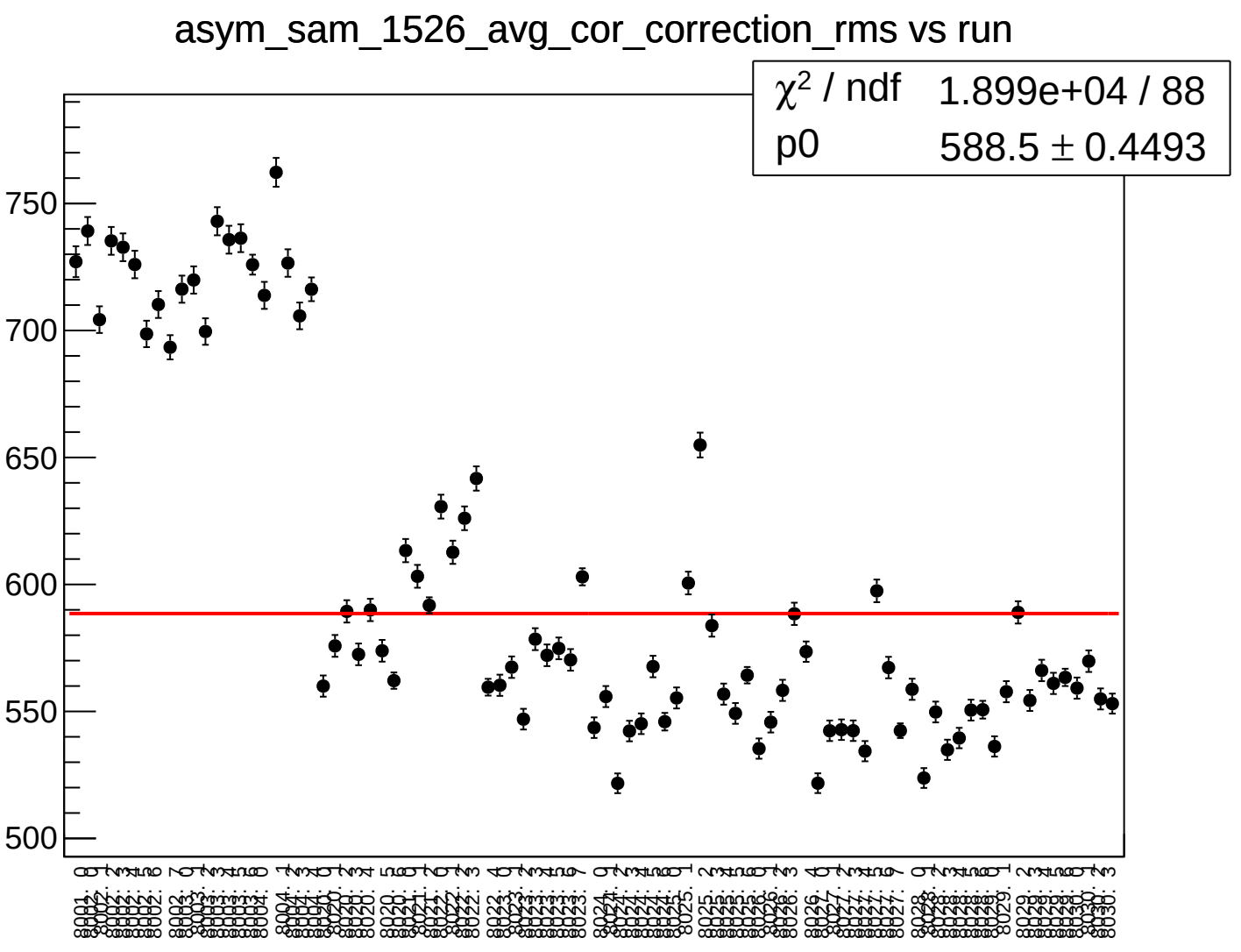

asym_sam_1526_avg_reg_correction_rms vs run
χ² / ndf 1.899e+04 / 88
p0 588.5 ± 0.4493
750
700
650
600
550
500

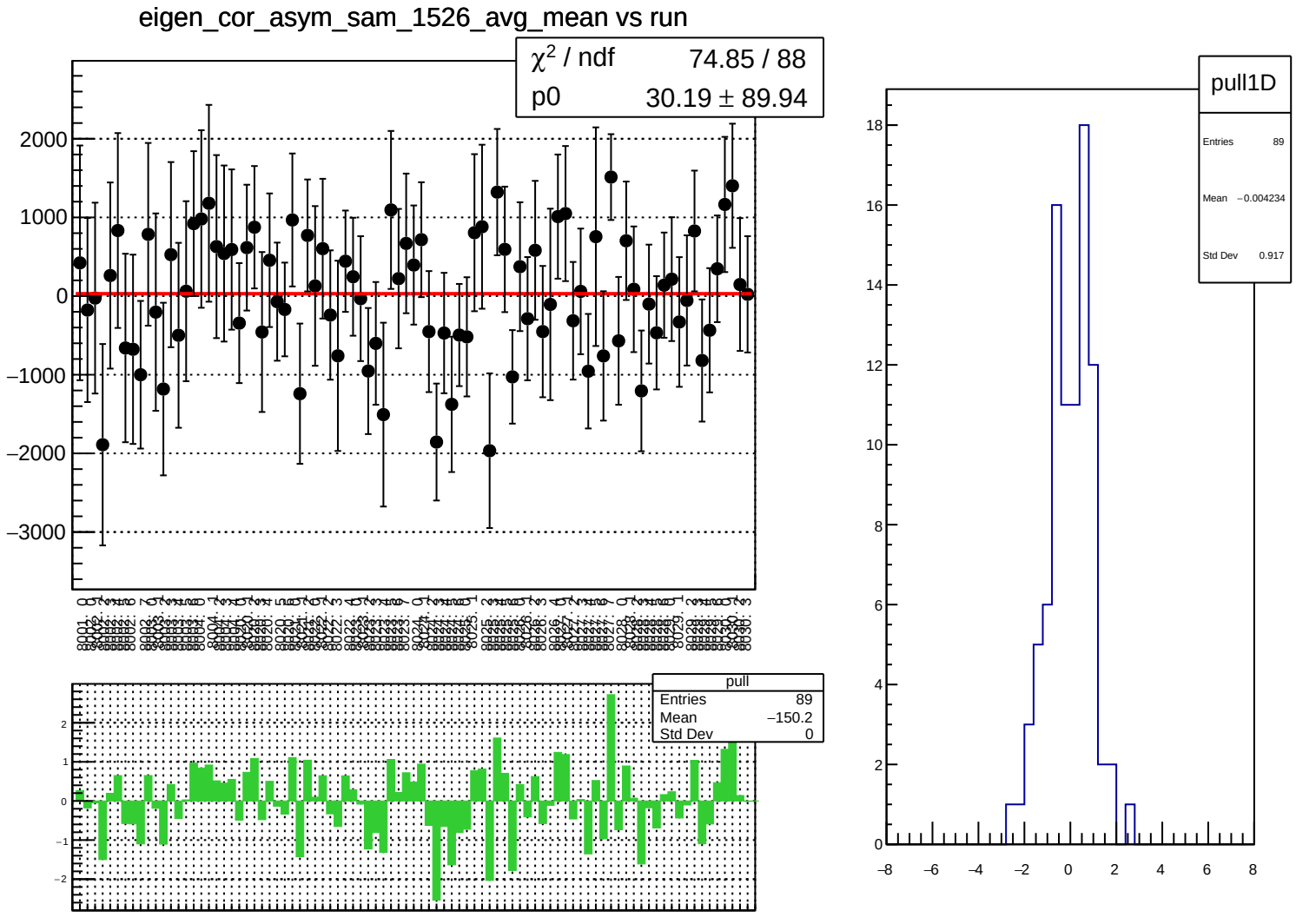

cor_asym_sam_1526_avg_mean vs run
χ² / ndf 74.85 / 88
p0 30.19 ± 89.94
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean −150.2
Std Dev 0
2
1
0
−1
−2

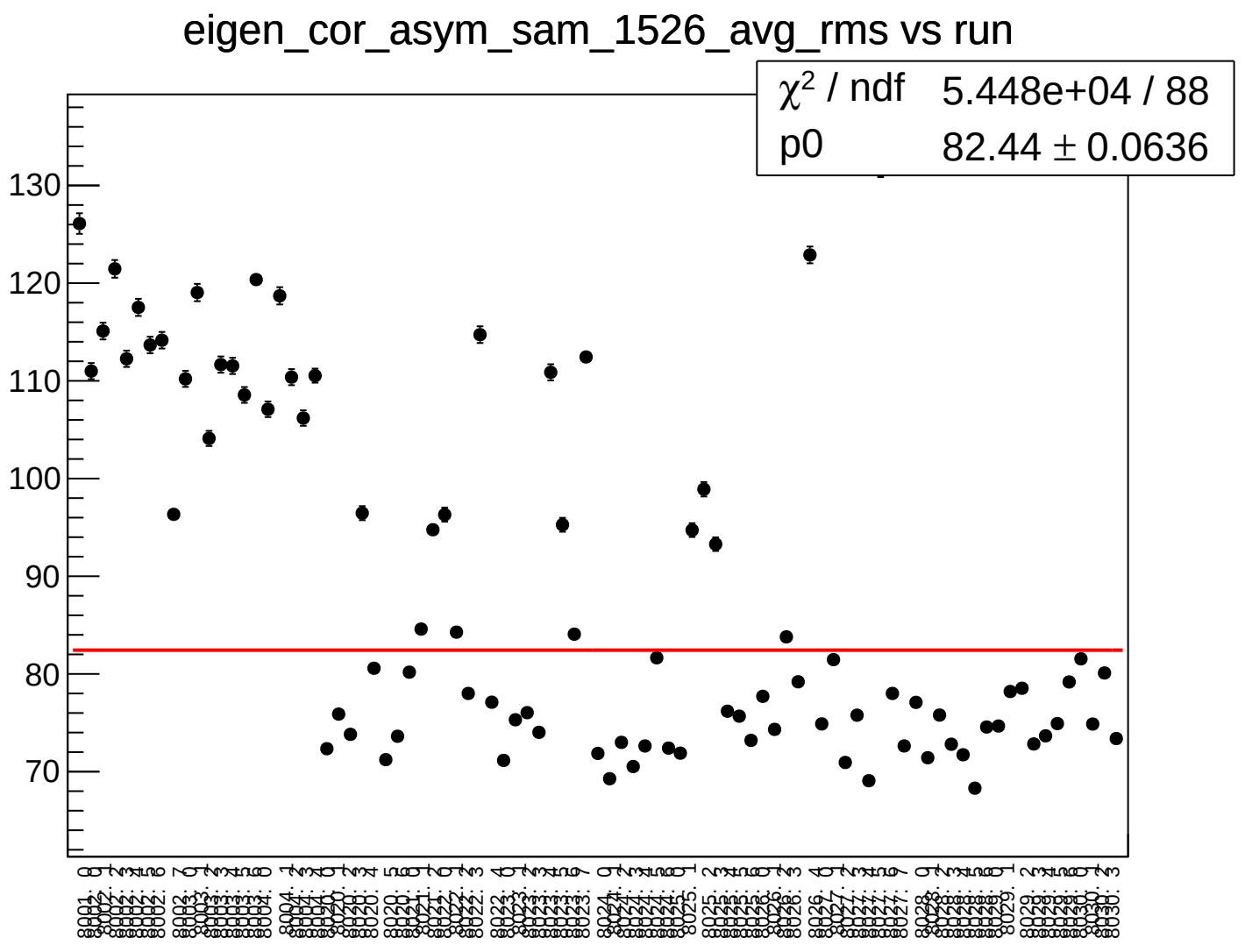

pull1D
Entries 89
Mean −0.004234
Std Dev 0.917
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

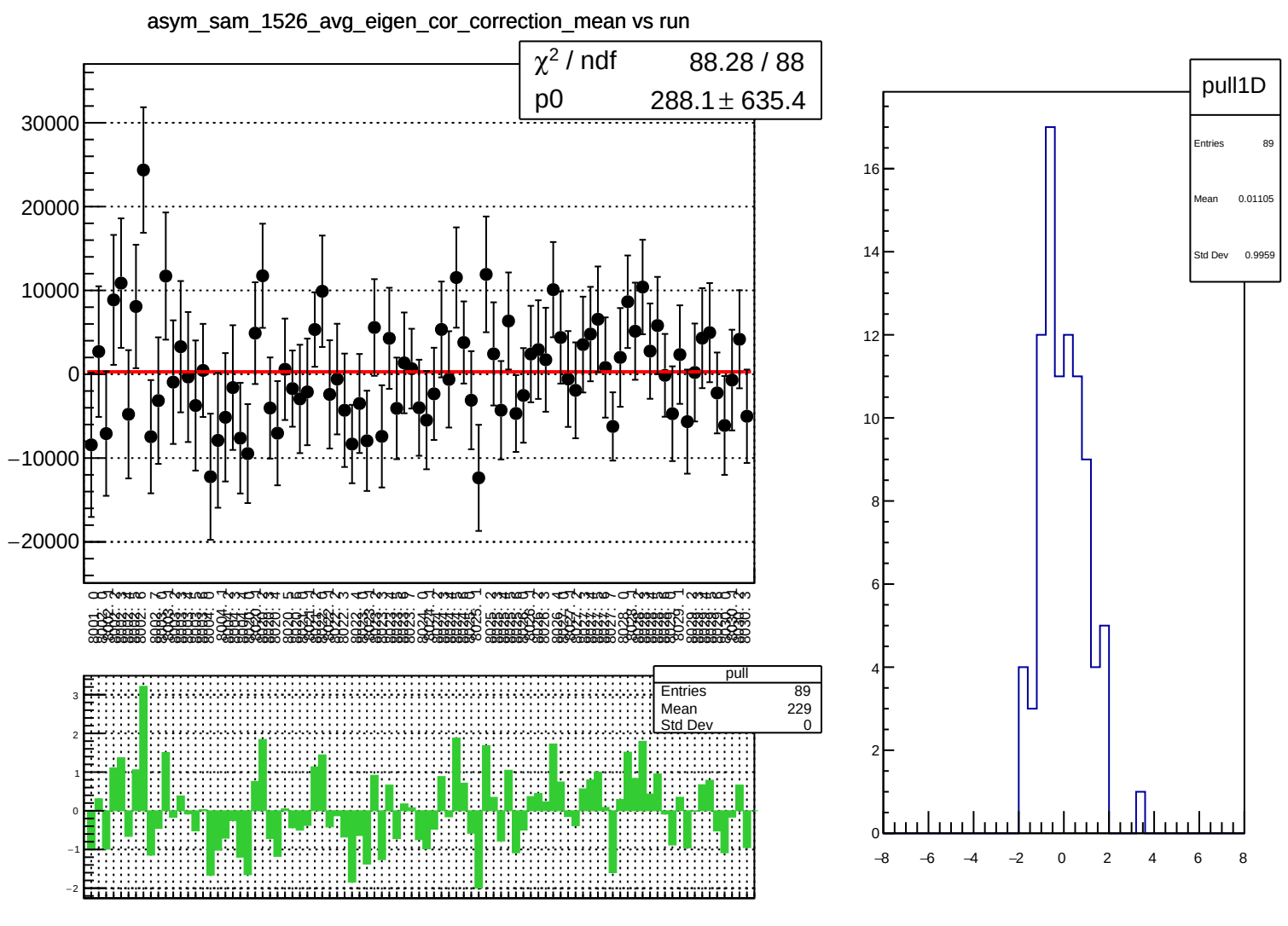

cor_asym_sam_1526_avg_rms vs run
χ^2 / ndf 5.448e+04 / 88
p0 82.44 ± 0.0636
130
120
110
100
90
80
70

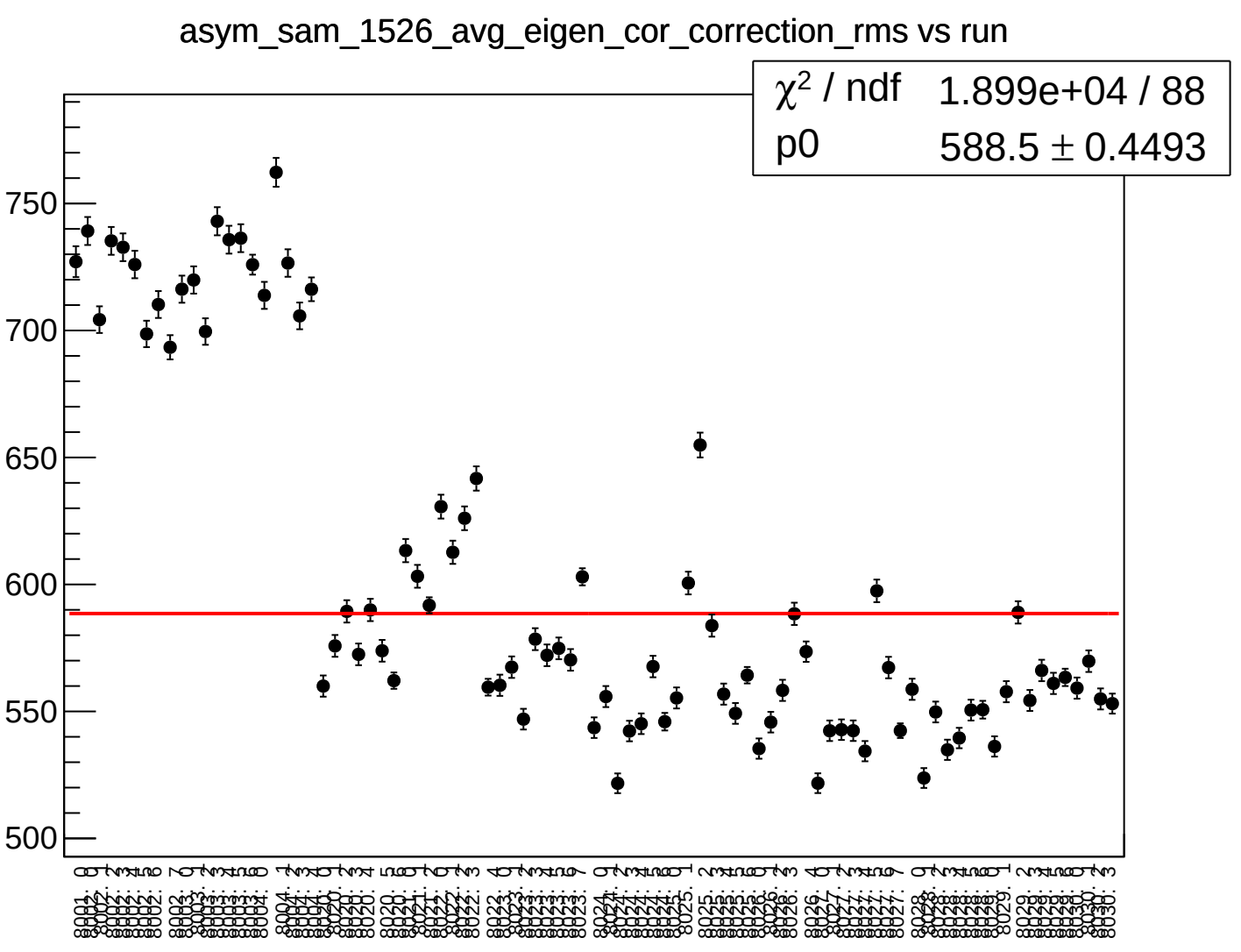

asym_sam_1526_avg_cor_correction_mean vs run
χ² / ndf 88.28 / 88
p0 288.1 ± 635.4
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 229
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.01105
Std Dev 0.9959
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

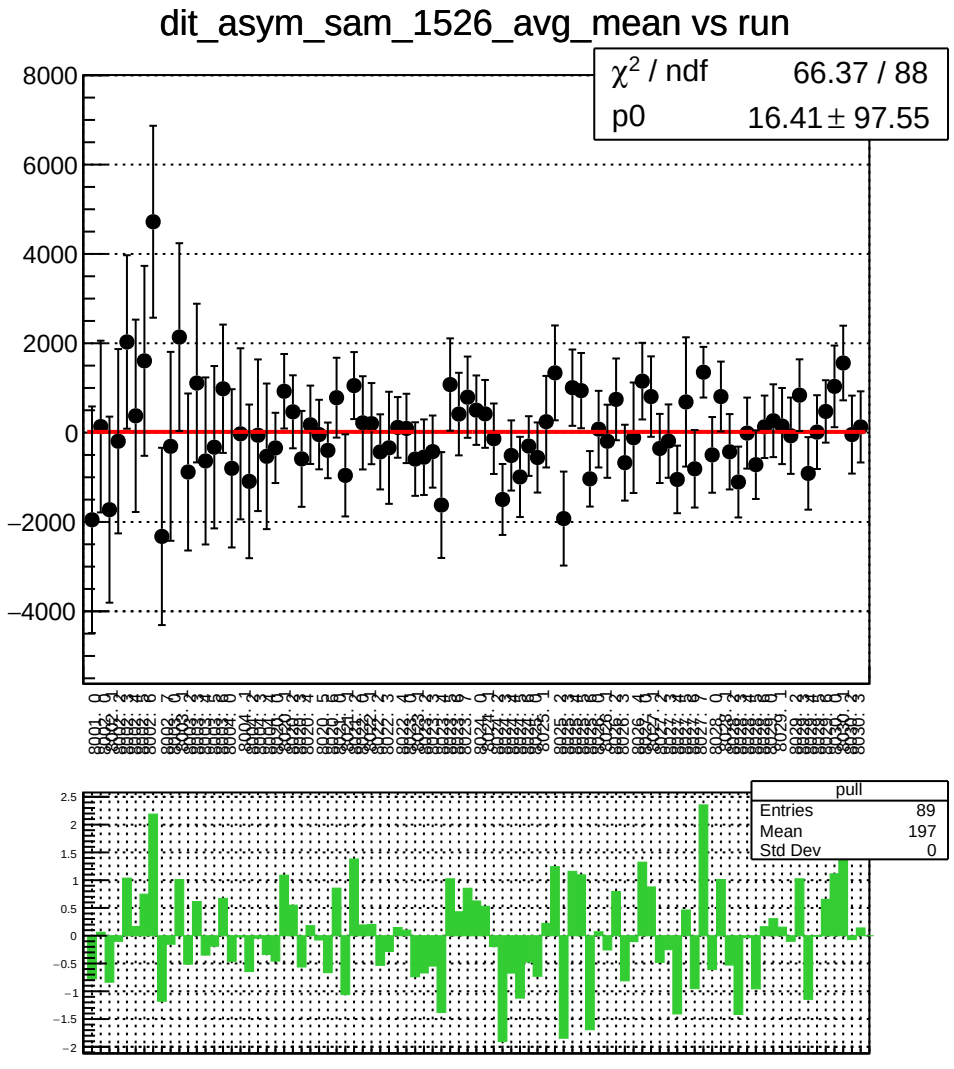

asym_sam_1526_avg_cor_correction_rms vs run
χ² / ndf 1.899e+04 / 88
p0 588.5 ± 0.4493
750
700
650
600
550
500

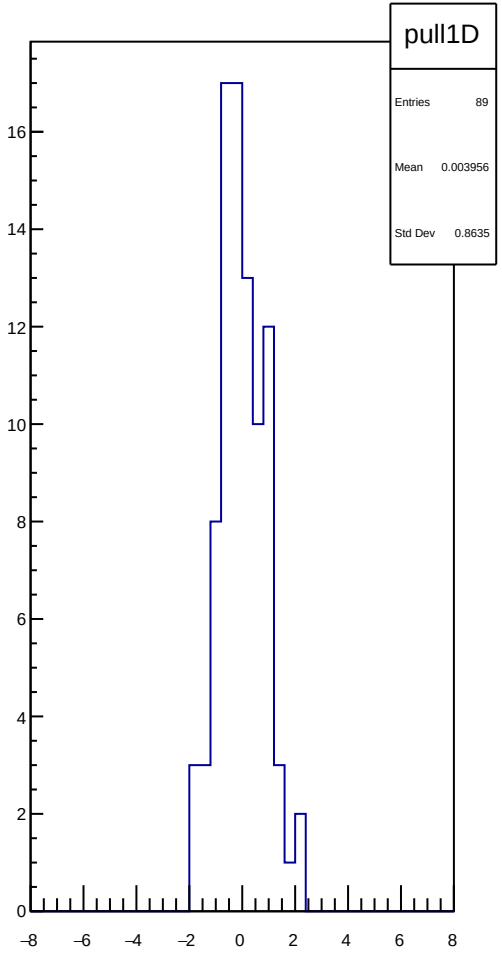

eigen_cor_asym_sam_1526_avg_mean vs run
χ^2 / ndf 74.85 / 88
p0 30.19 ± 89.94
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean −150.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.004234
Std Dev 0.917
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

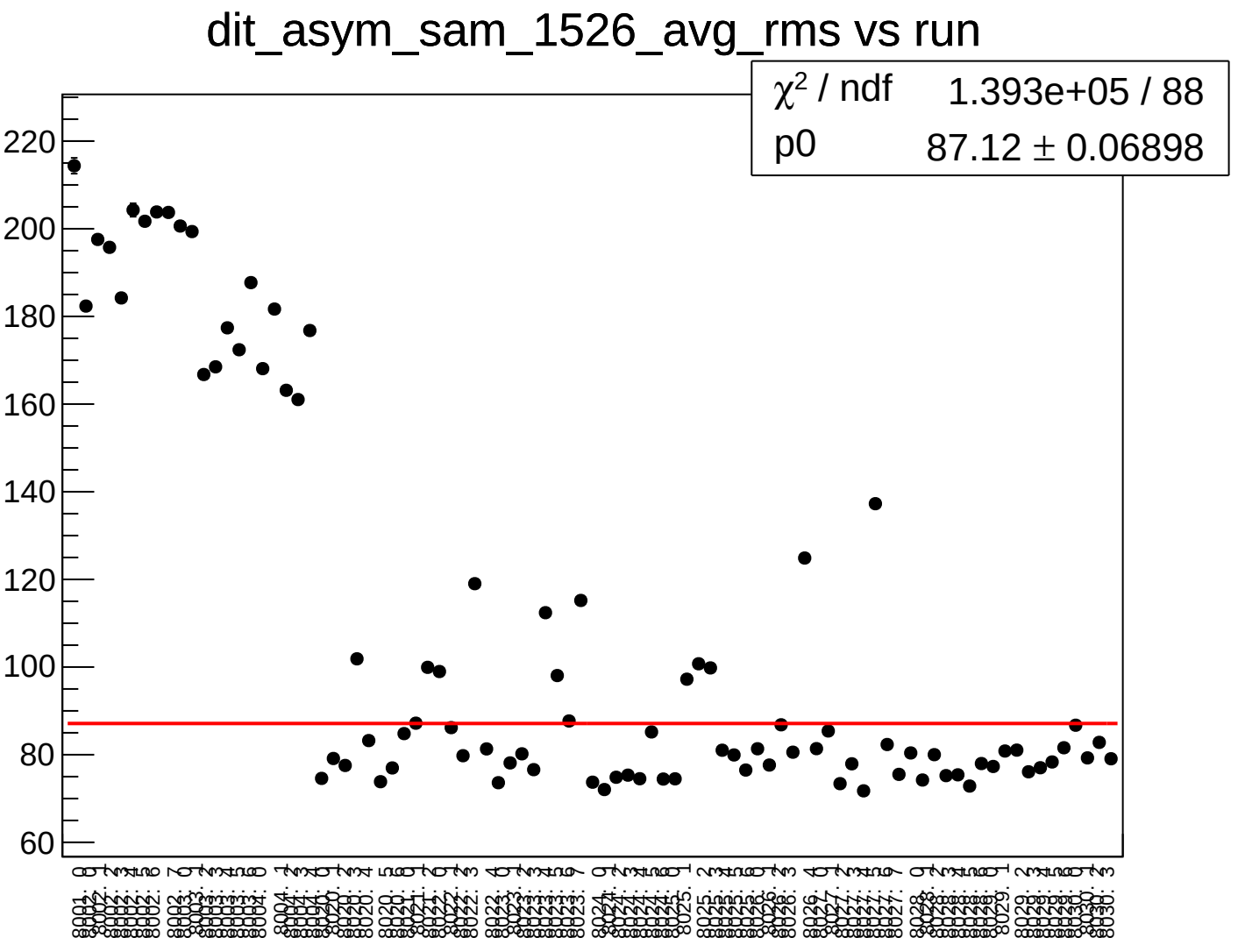

eigen_cor_asym_sam_1526_avg_rms vs run
χ^2 / ndf 5.448e+04 / 88
p0 82.44 ± 0.0636
130
120
110
100
90
80
70

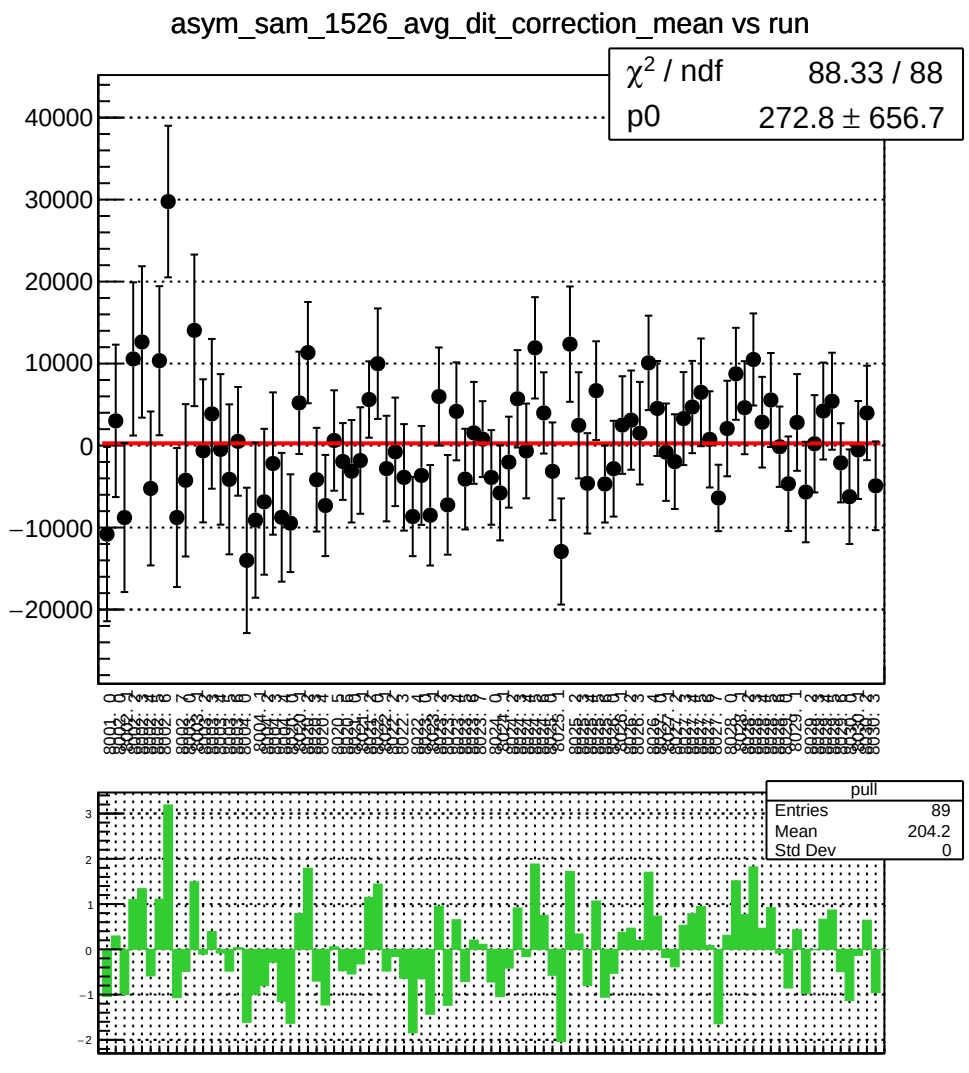

asym_sam_1526_avg_eigen_cor_correction_mean vs run
χ² / ndf 88.28 / 88
p0 288.1 ± 635.4
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 229
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.01105
Std Dev 0.9959
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

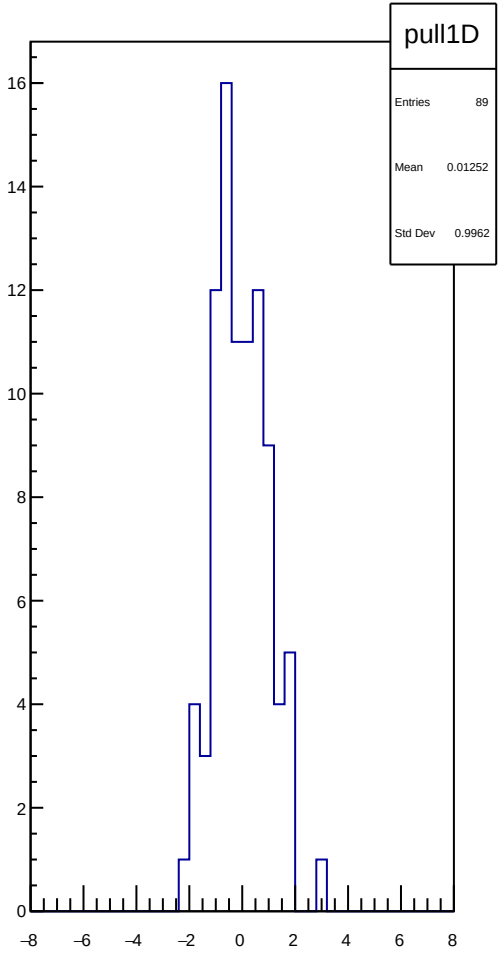

asym_sam_1526_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.899e+04 / 88
p0 588.5 ± 0.4493
750
700
650
600
550
500

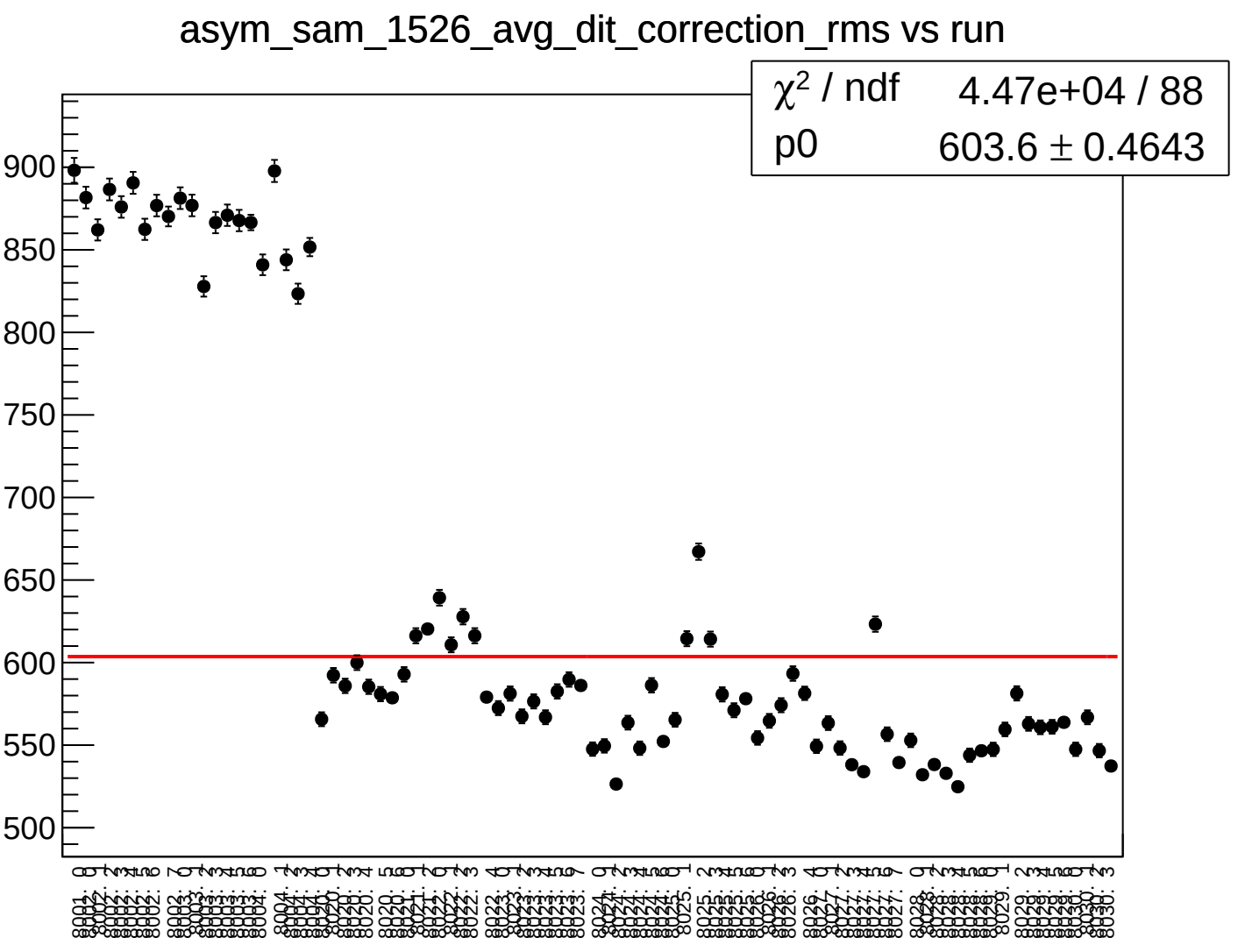

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 66.37 / 88
p0 16.41 ± 97.55
pull
Entries 89
Mean 197
Std Dev 0

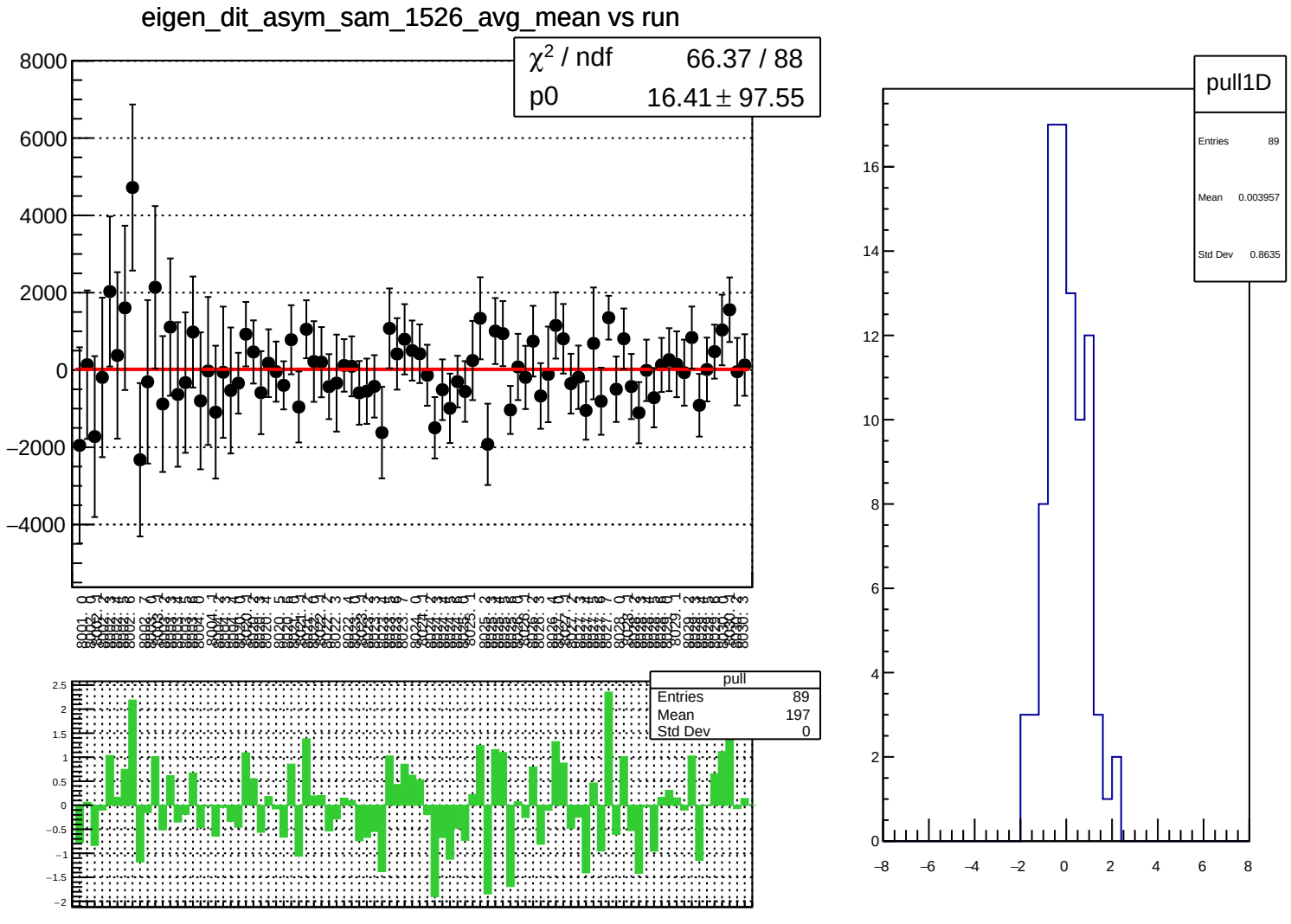

pull1D
Entries 89
Mean 0.003956
Std Dev 0.8635

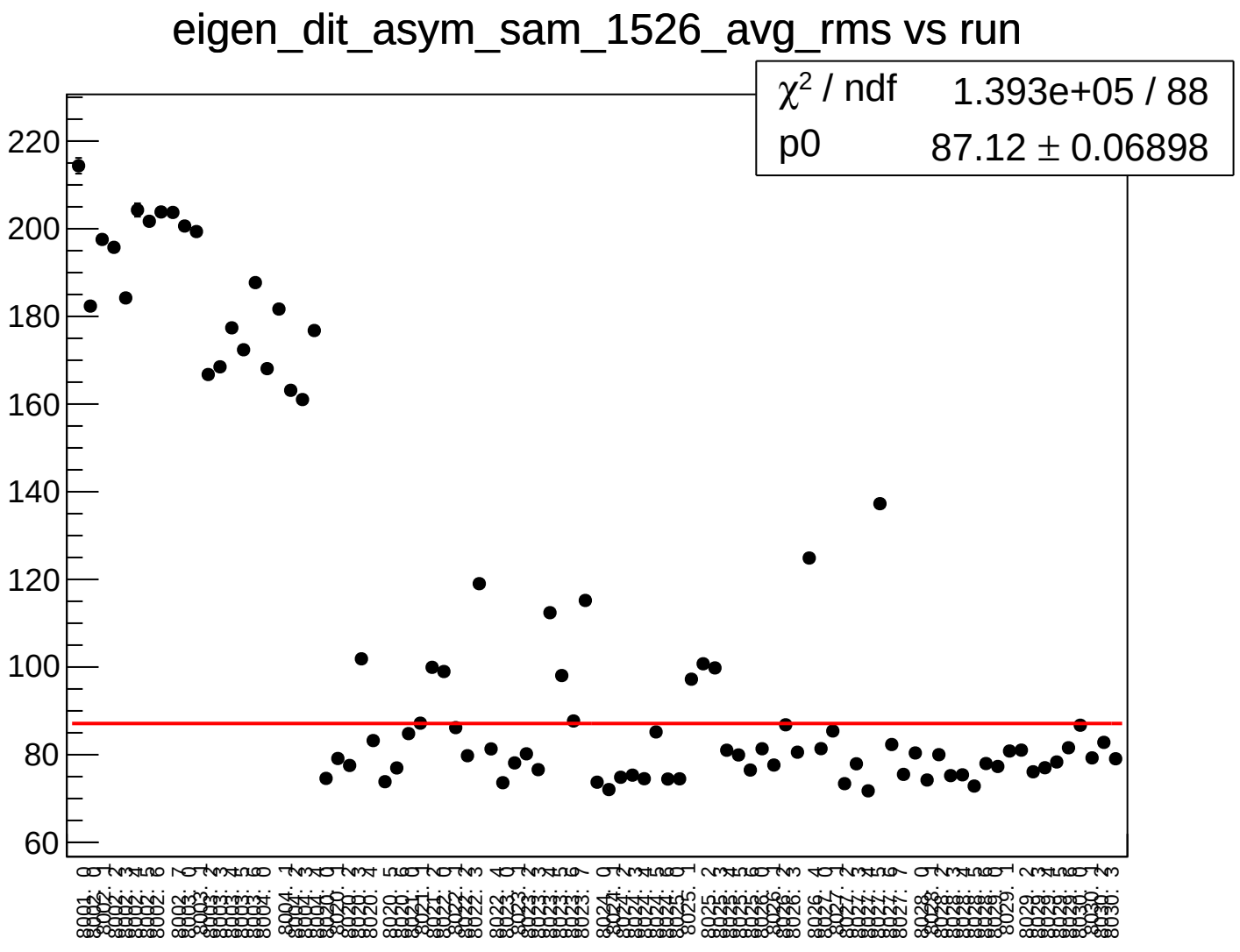

dit_asym_sam_1526_avg_rms vs run
χ² / ndf 1.393e+05 / 88
p0 87.12 ± 0.06898
220
200
180
160
140
120
100
80
60

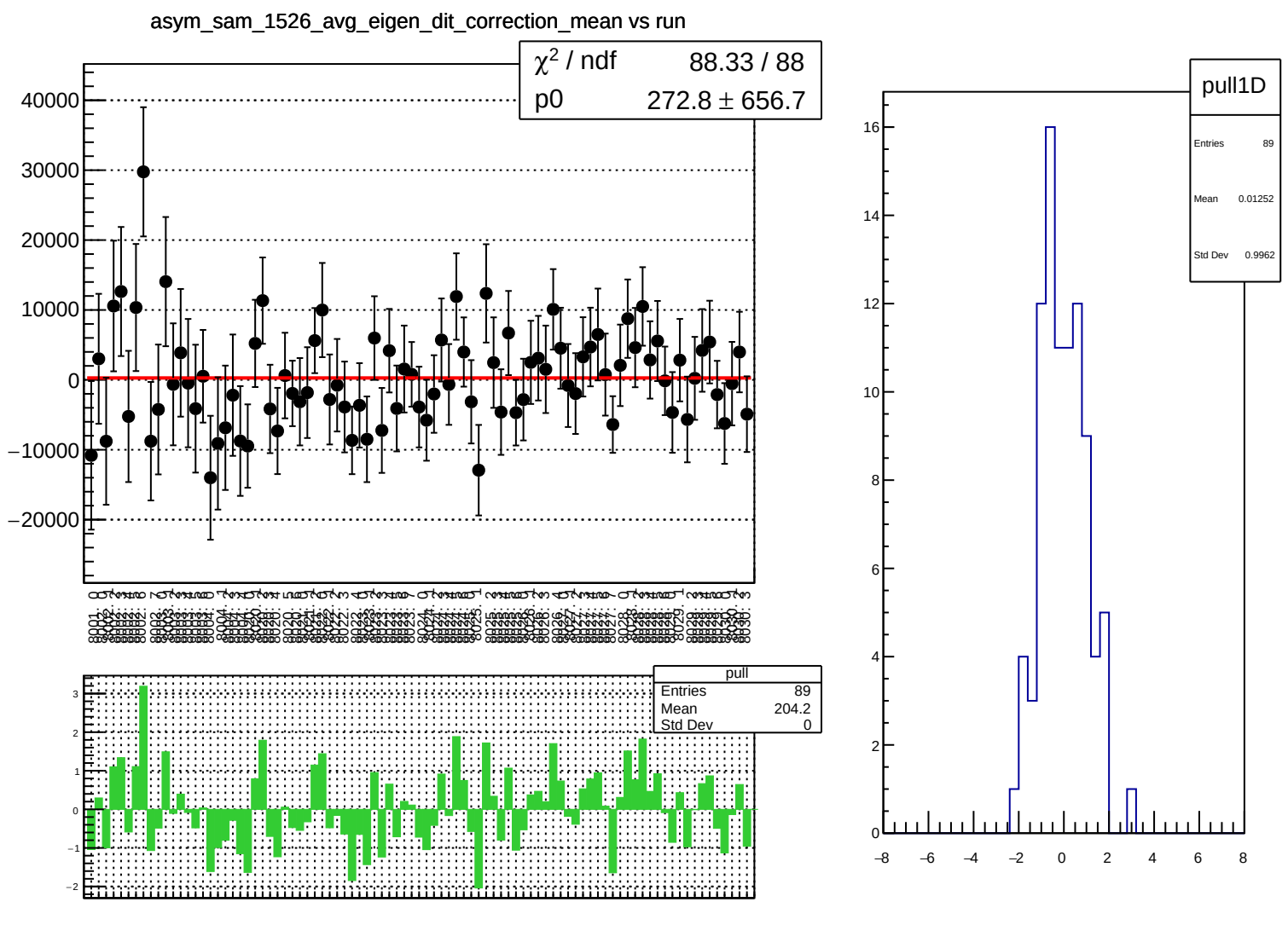

asym_sam_1526_avg_dit_correction_mean vs run
χ² / ndf 88.33 / 88
p0 272.8 ± 656.7
40000
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 204.2
Std Dev 0
3
2
1
0
−1
−2

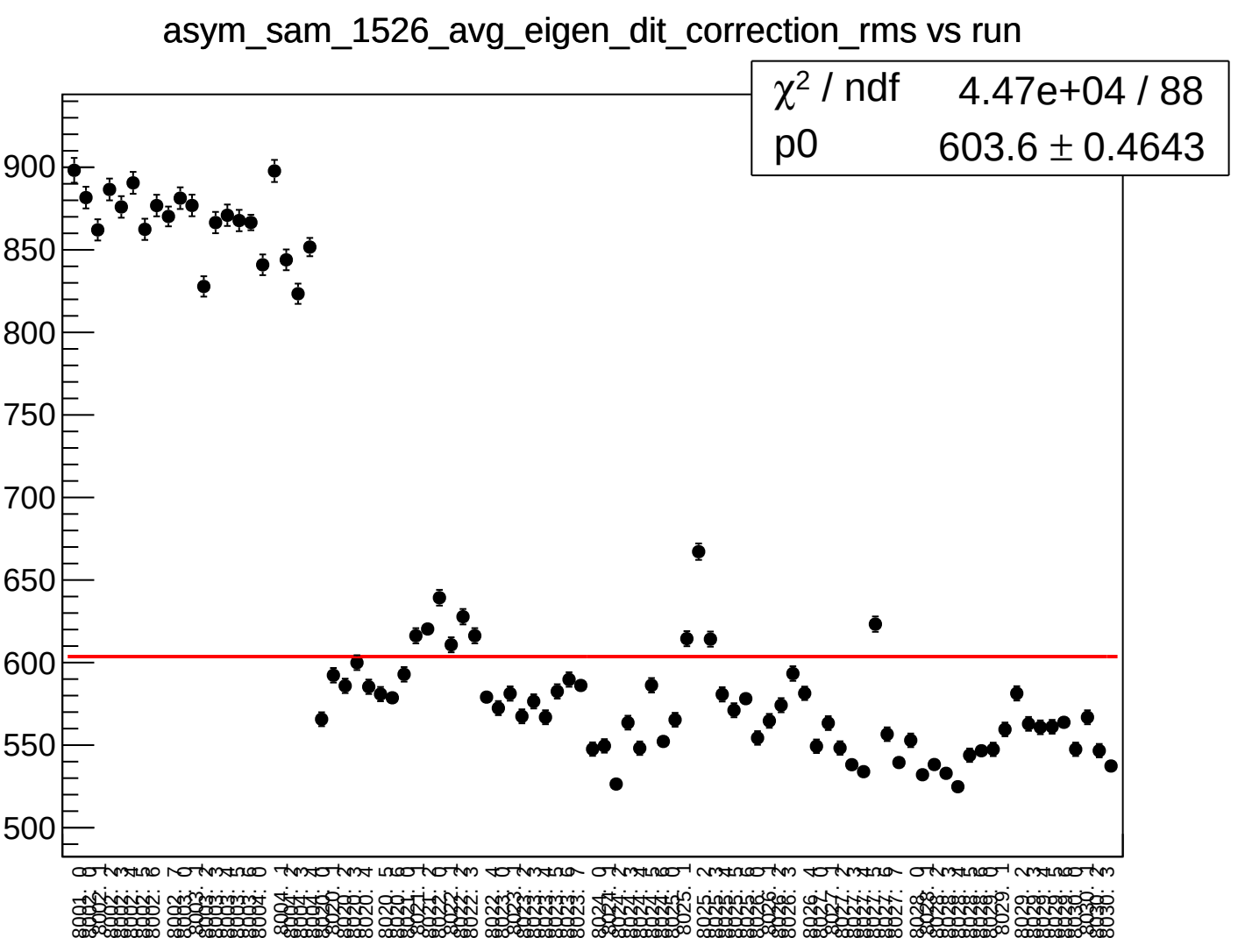

pull1D
Entries 89
Mean 0.01252
Std Dev 0.9962
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

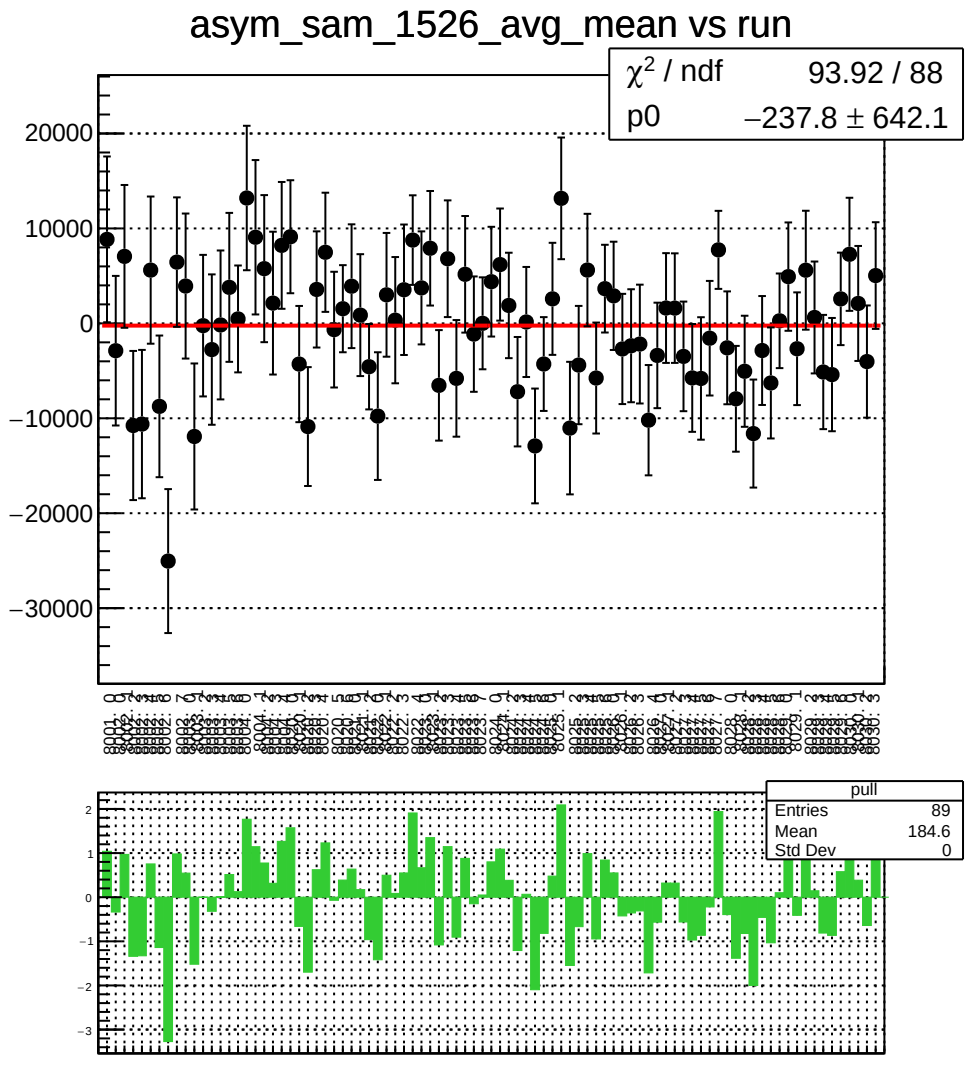

asym_sam_1526_avg_dit_correction_rms vs run
χ² / ndf 4.47e+04 / 88
p0 603.6 ± 0.4643
900
850
800
750
700
650
600
550
500

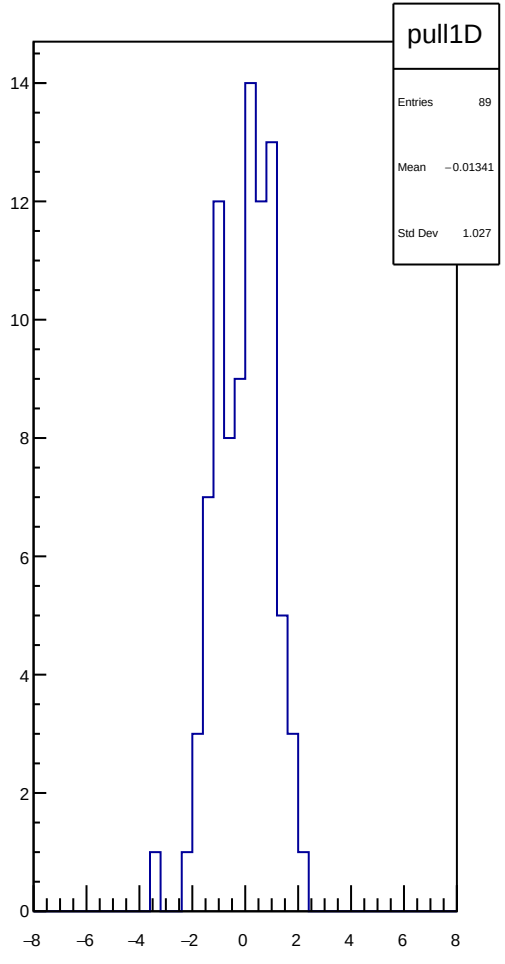

eigen_dit_asym_sam_1526_avg_mean vs run
χ^2 / ndf 66.37 / 88
p0 16.41 ± 97.55
pull
Entries 89
Mean 197
Std Dev 0
pull1D
Entries 89
Mean 0.003957
Std Dev 0.8635

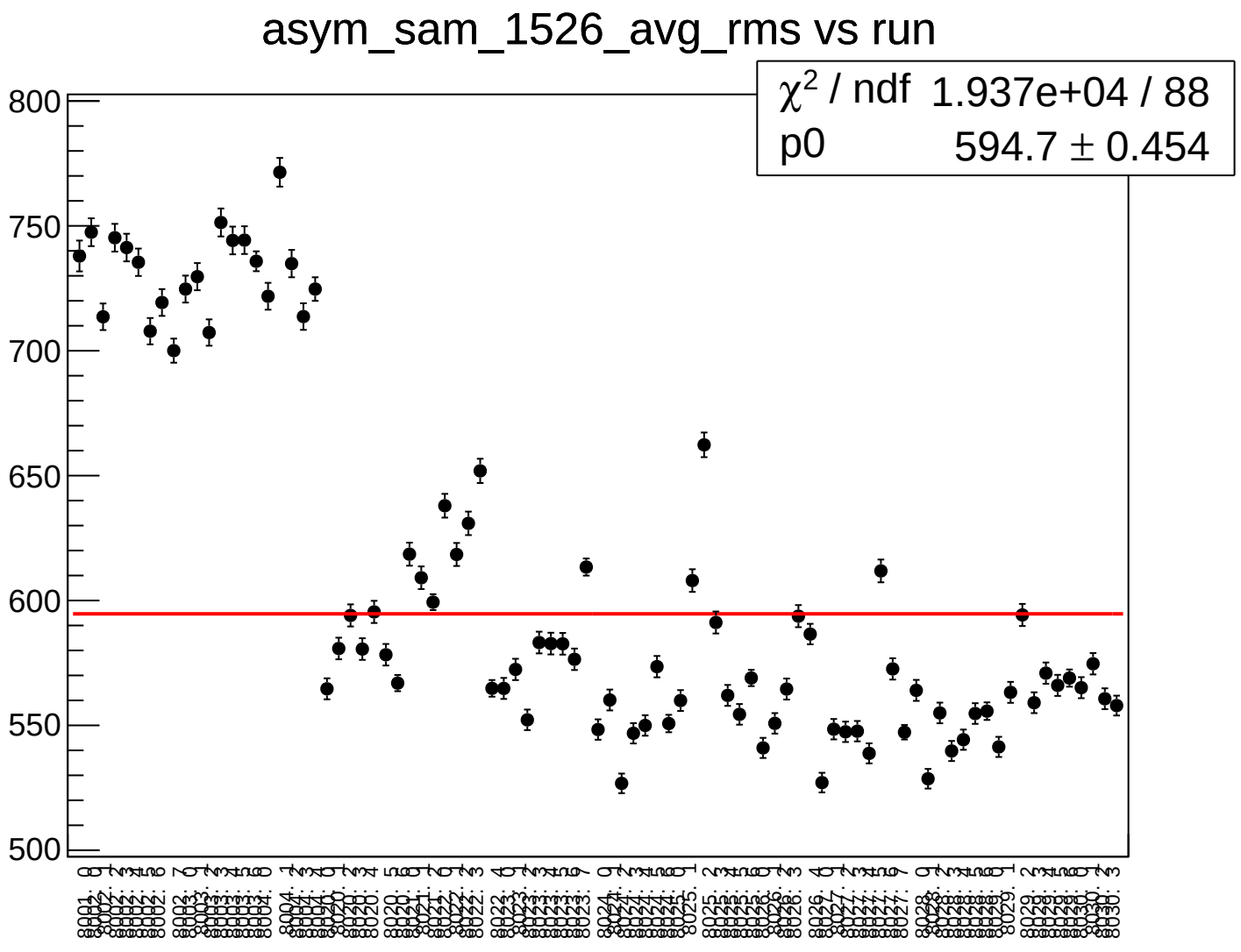

eigen_dit_asym_sam_1526_avg_rms vs run
χ² / ndf 1.393e+05 / 88
p0 87.12 ± 0.06898
220
200
180
160
140
120
100
80
60

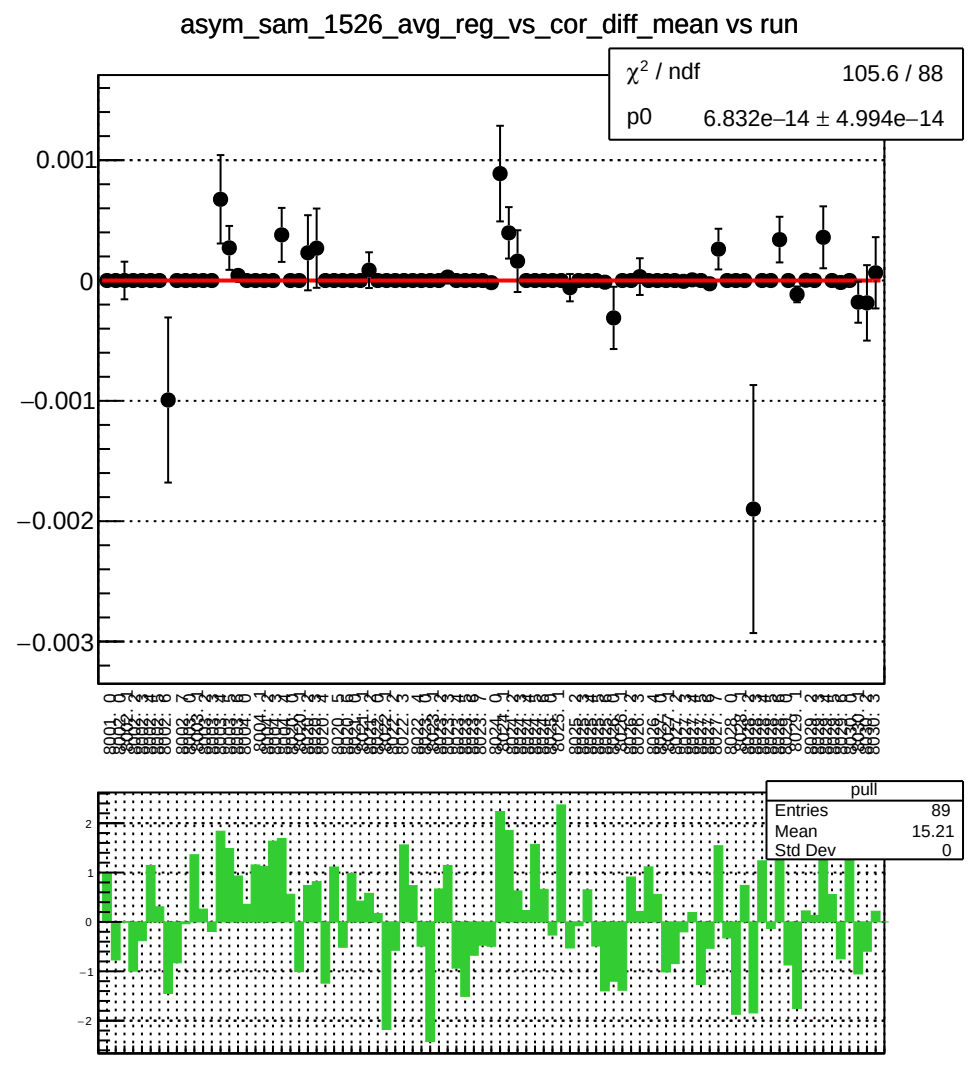

asym_sam_1526_avg_eigen_dit_correction_mean vs run
χ² / ndf 88.33 / 88
p0 272.8 ± 656.7
40000
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 204.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.01252
Std Dev 0.9962
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

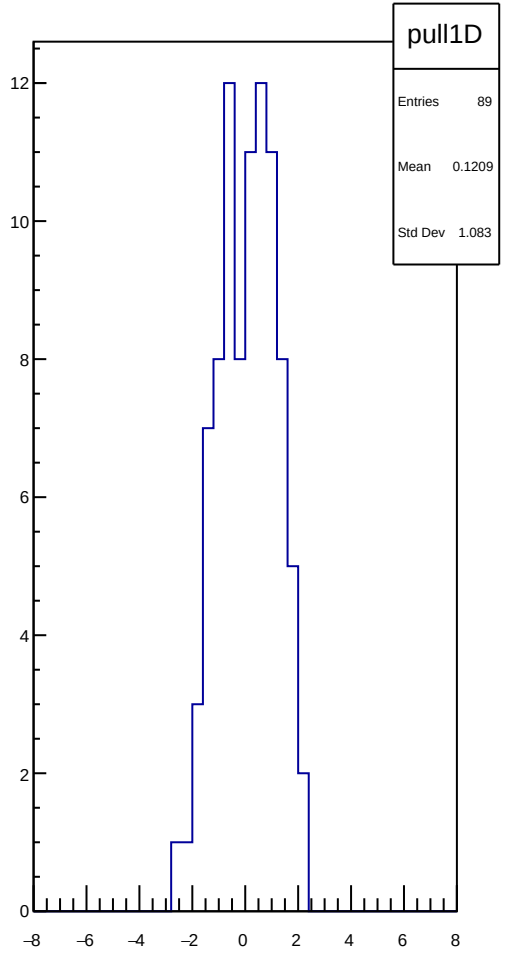

asym_sam_1526_avg_eigen_dit_correction_rms vs run
χ² / ndf 4.47e+04 / 88
p0 603.6 ± 0.4643
900
850
800
750
700
650
600
550
500

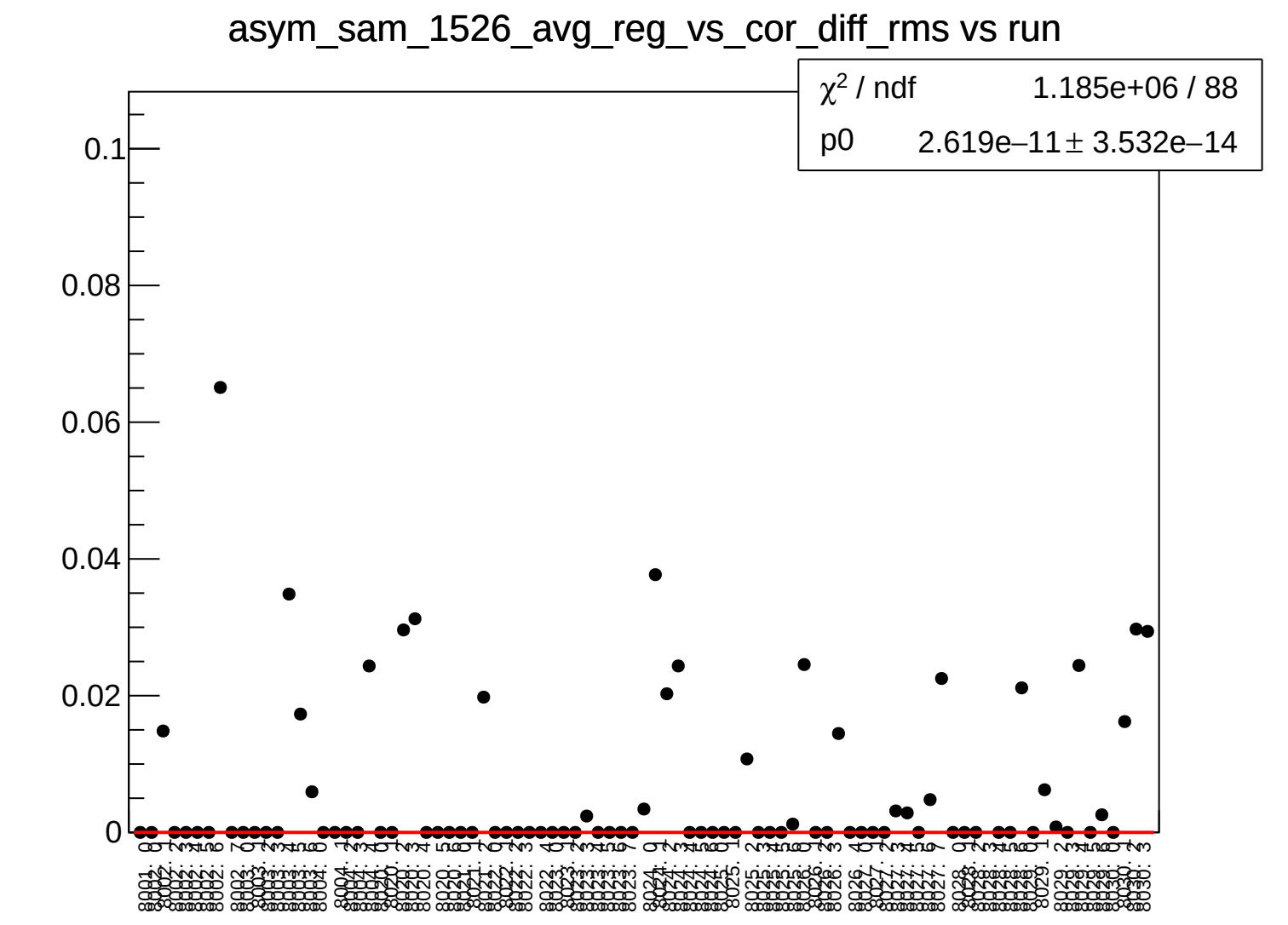

asym_sam_1526_avg_mean vs run
χ² / ndf 93.92 / 88
p0 −237.8 ± 642.1
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 184.6
Std Dev 0
2
1
0
−1
−2
−3

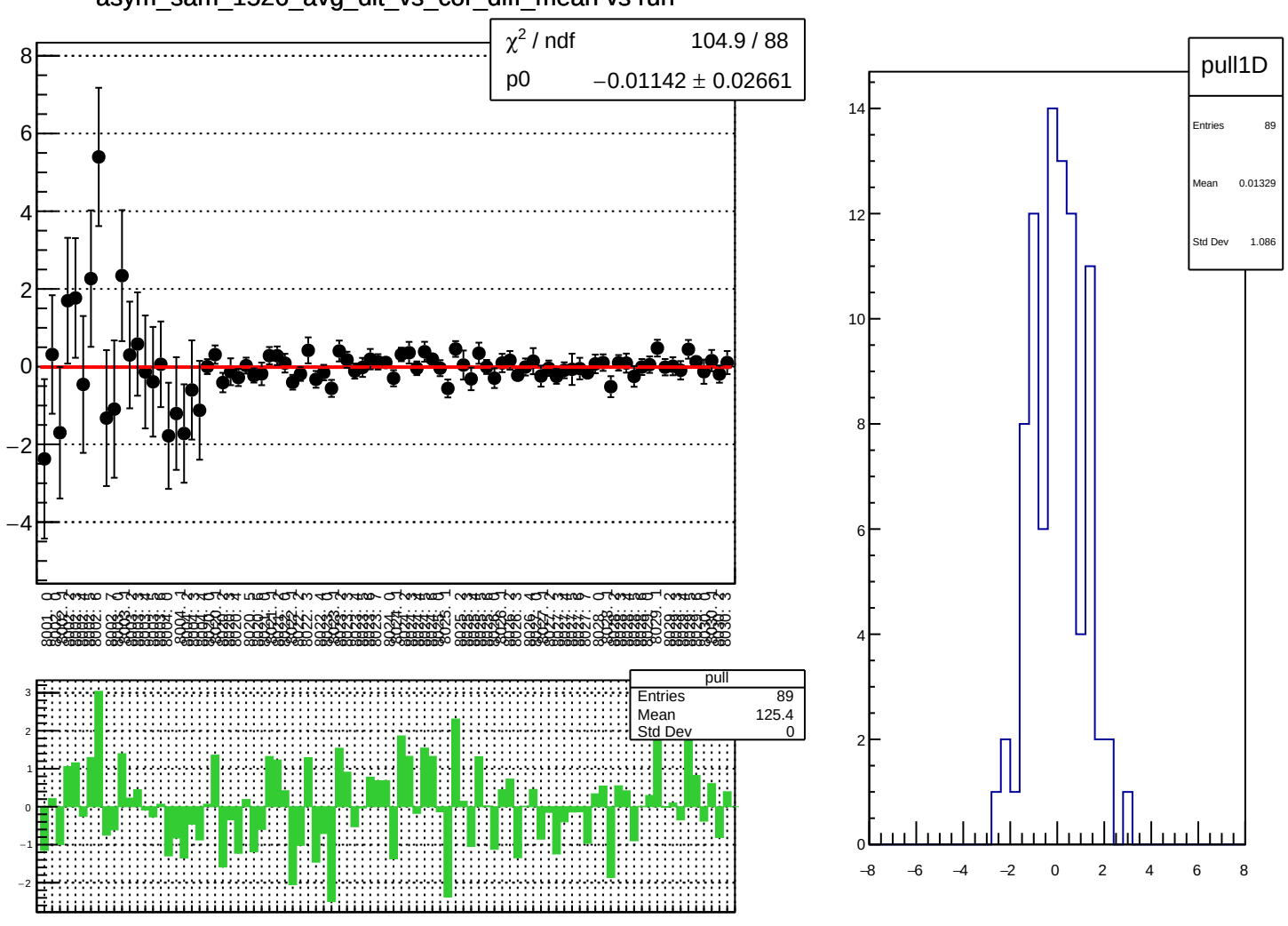

pull1D
Entries 89
Mean −0.01341
Std Dev 1.027
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

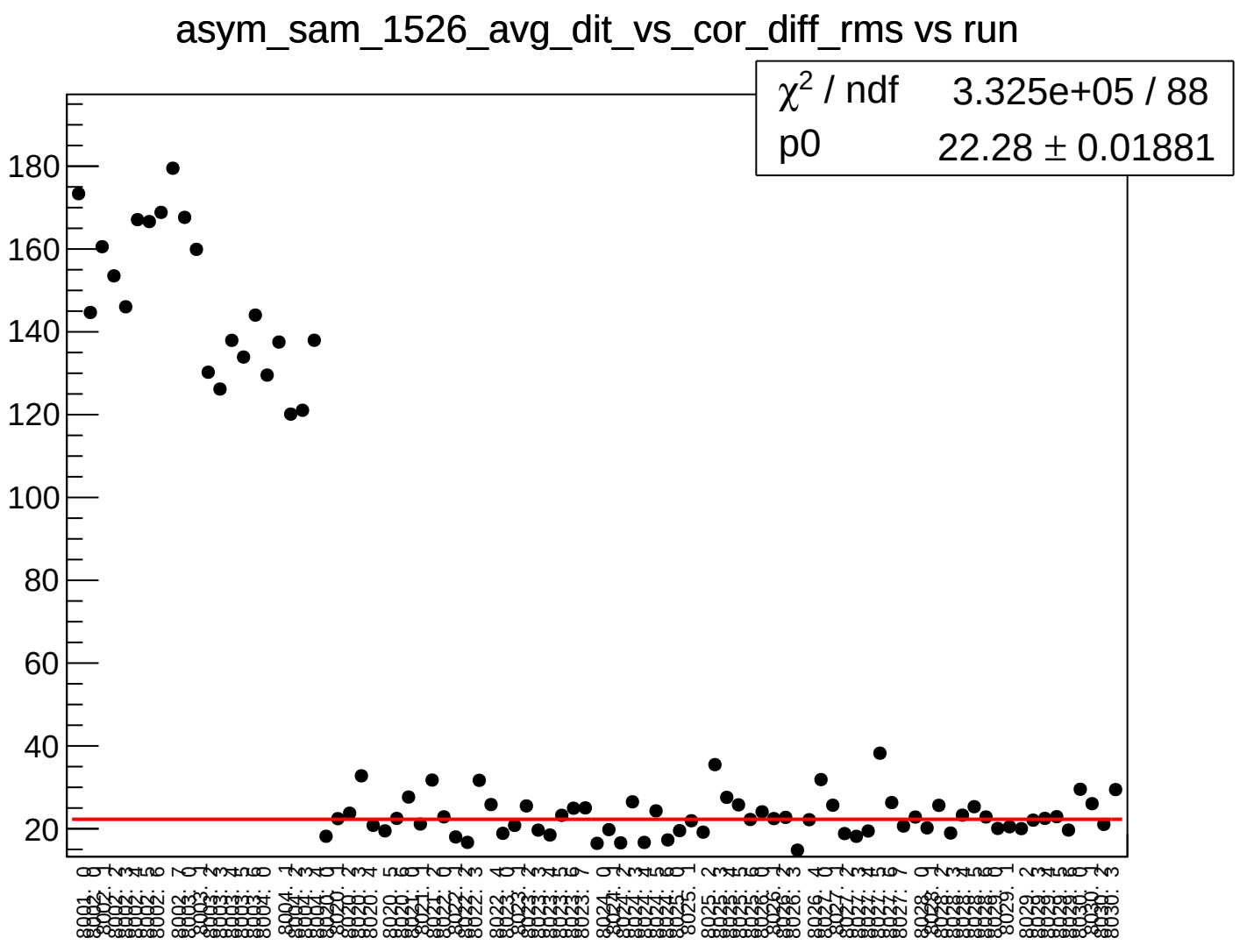

asym_sam_1526_avg_rms vs run
χ² / ndf 1.937e+04 / 88
p0 594.7 ± 0.454
800
750
700
650
600
550
500

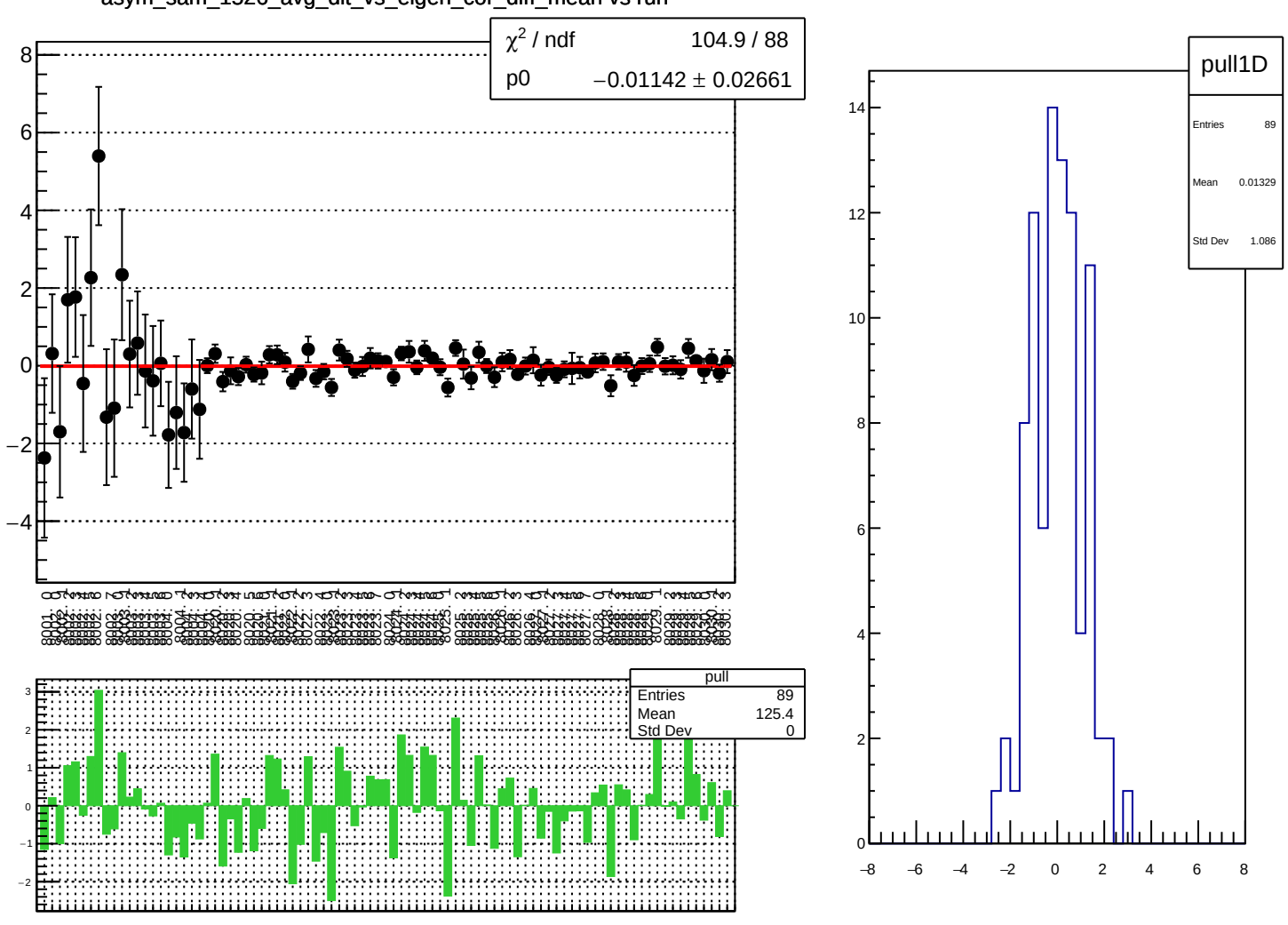

asym_sam_1526_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 105.6 / 88
p0 6.832e−14 ± 4.994e−14
0.001
0
−0.001
−0.002
−0.003
pull
Entries 89
Mean 15.21
Std Dev 0
2
1
0
−1
−2

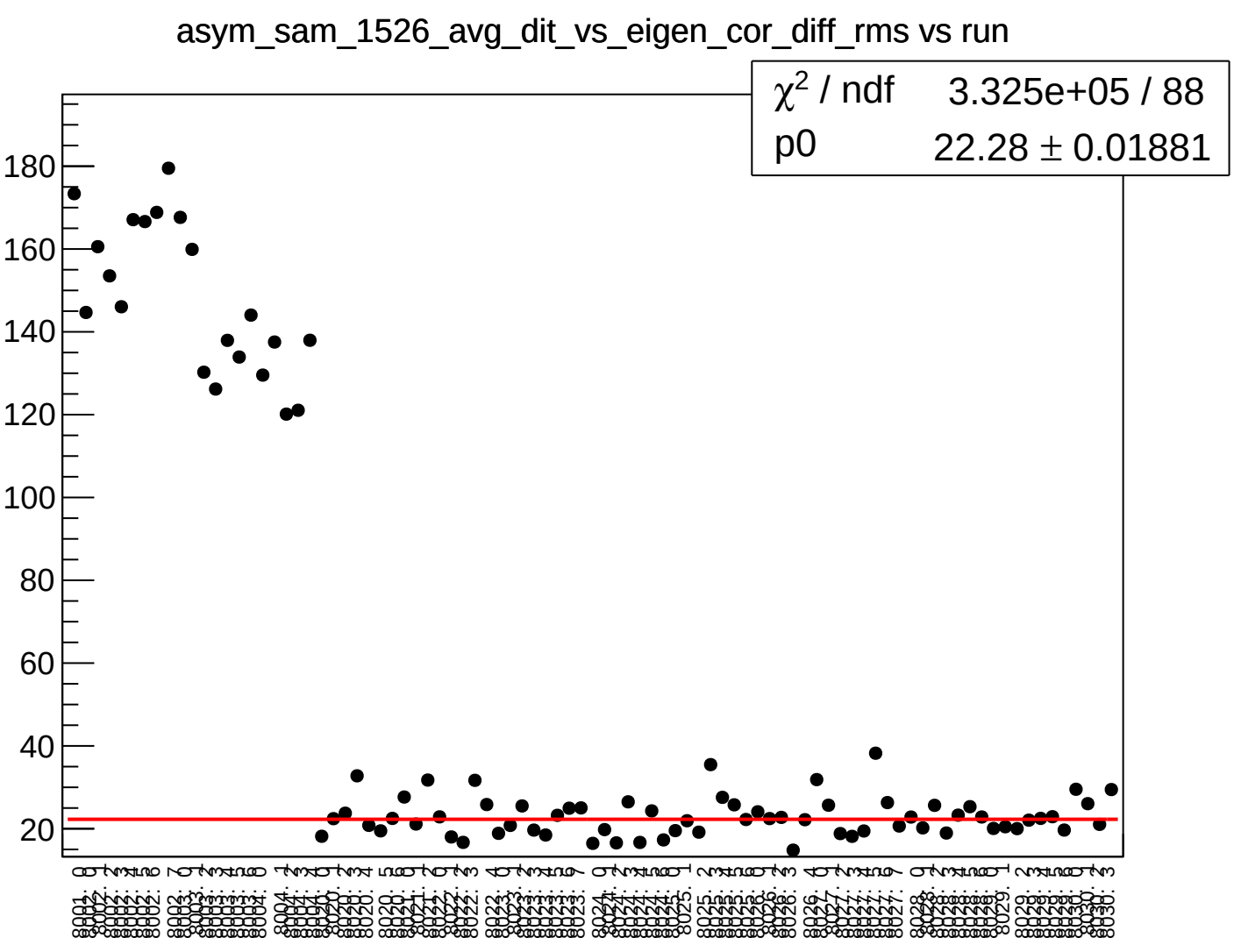

pull1D
Entries 89
Mean 0.1209
Std Dev 1.083
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

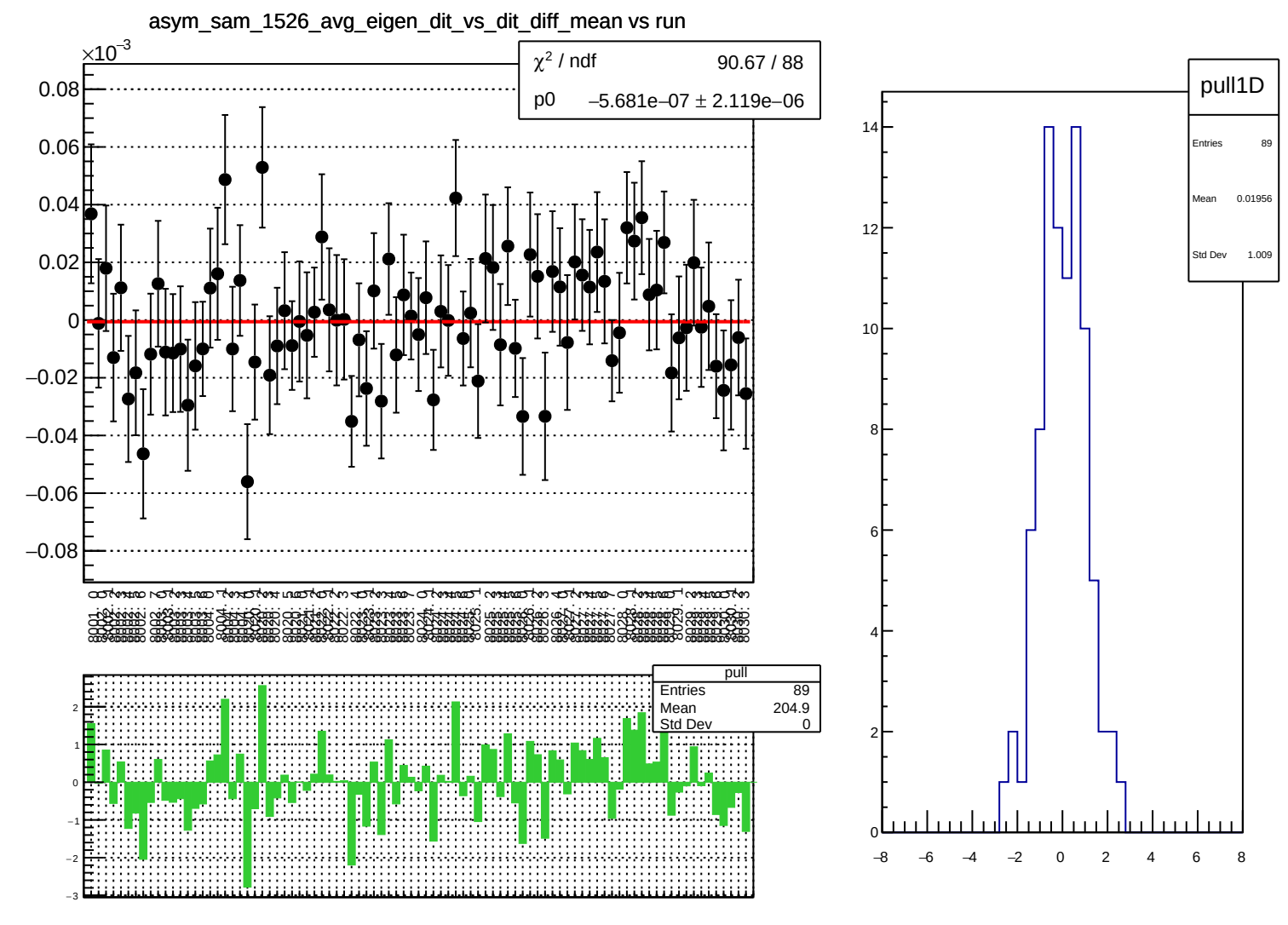

asym_sam_1526_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.185e+06 / 88
p0 2.619e−11 ± 3.532e−14
0.1
0.08
0.06
0.04
0.02
0

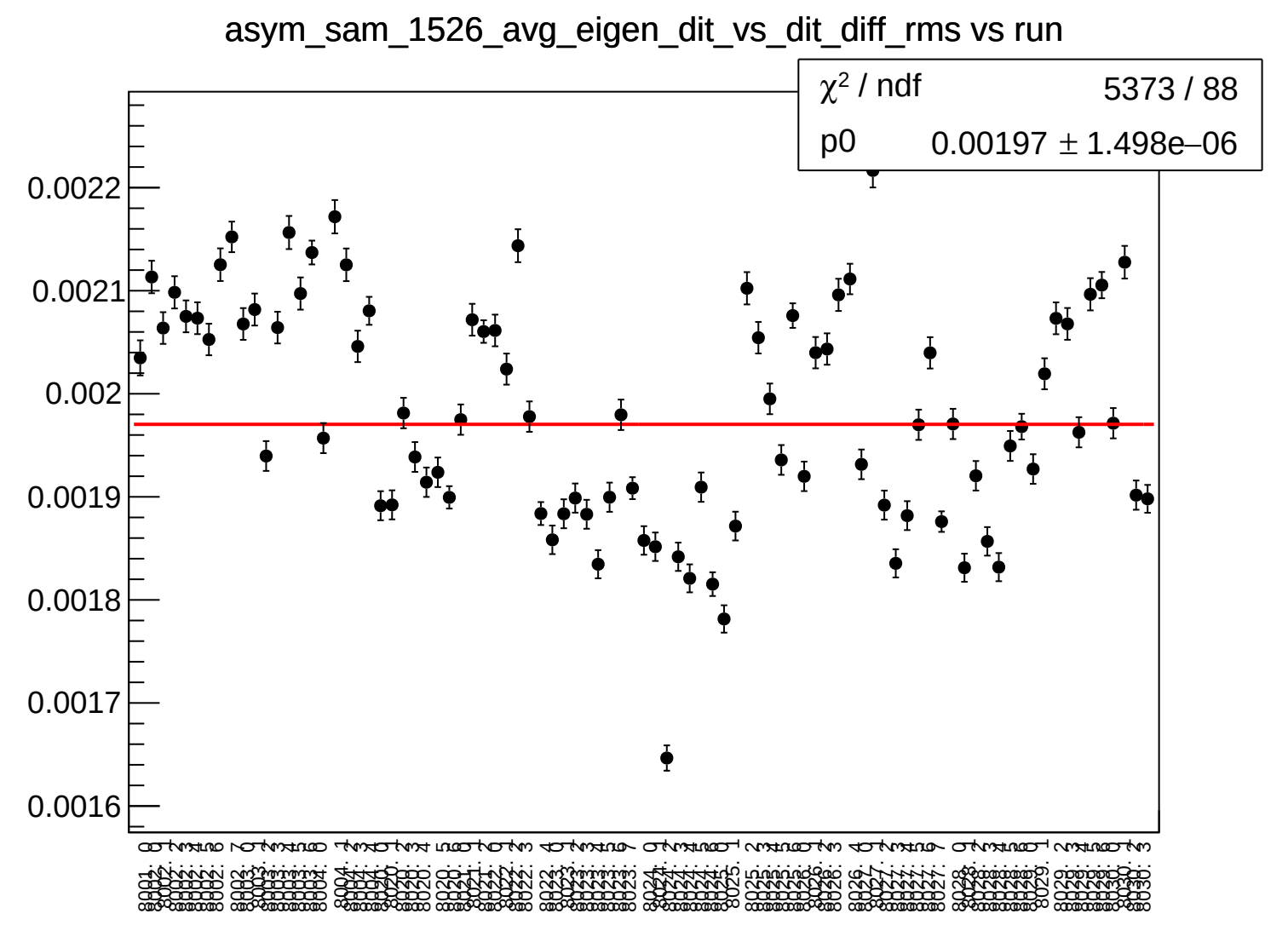

asym_sam_1526_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 104.9 / 88
p0 −0.01142 ± 0.02661
pull
Entries 89
Mean 125.4
Std Dev 0
pull1D
Entries 89
Mean 0.01329
Std Dev 1.086

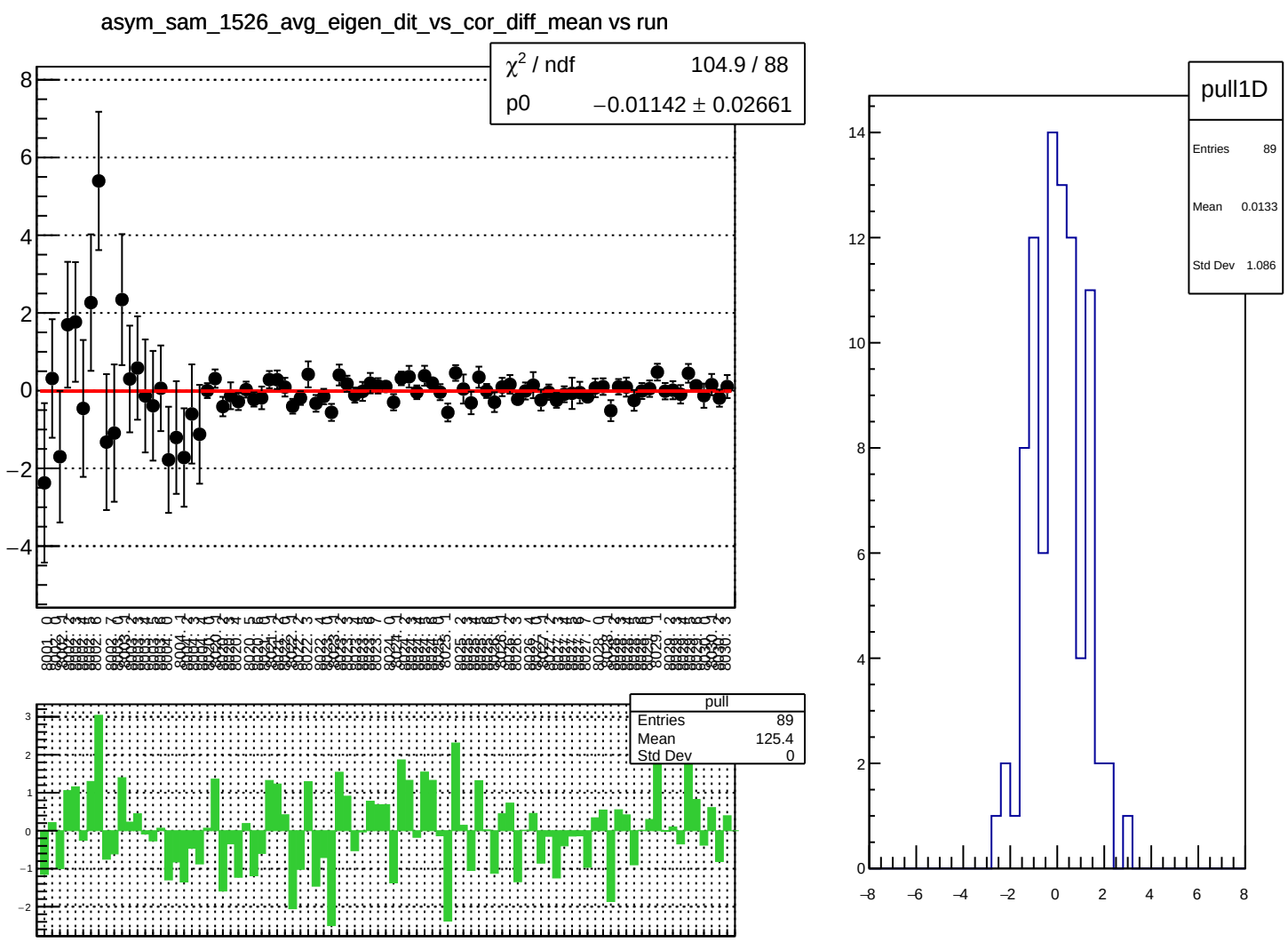

asym_sam_1526_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.325e+05 / 88
p0 22.28 ± 0.01881
180
160
140
120
100
80
60
40
20

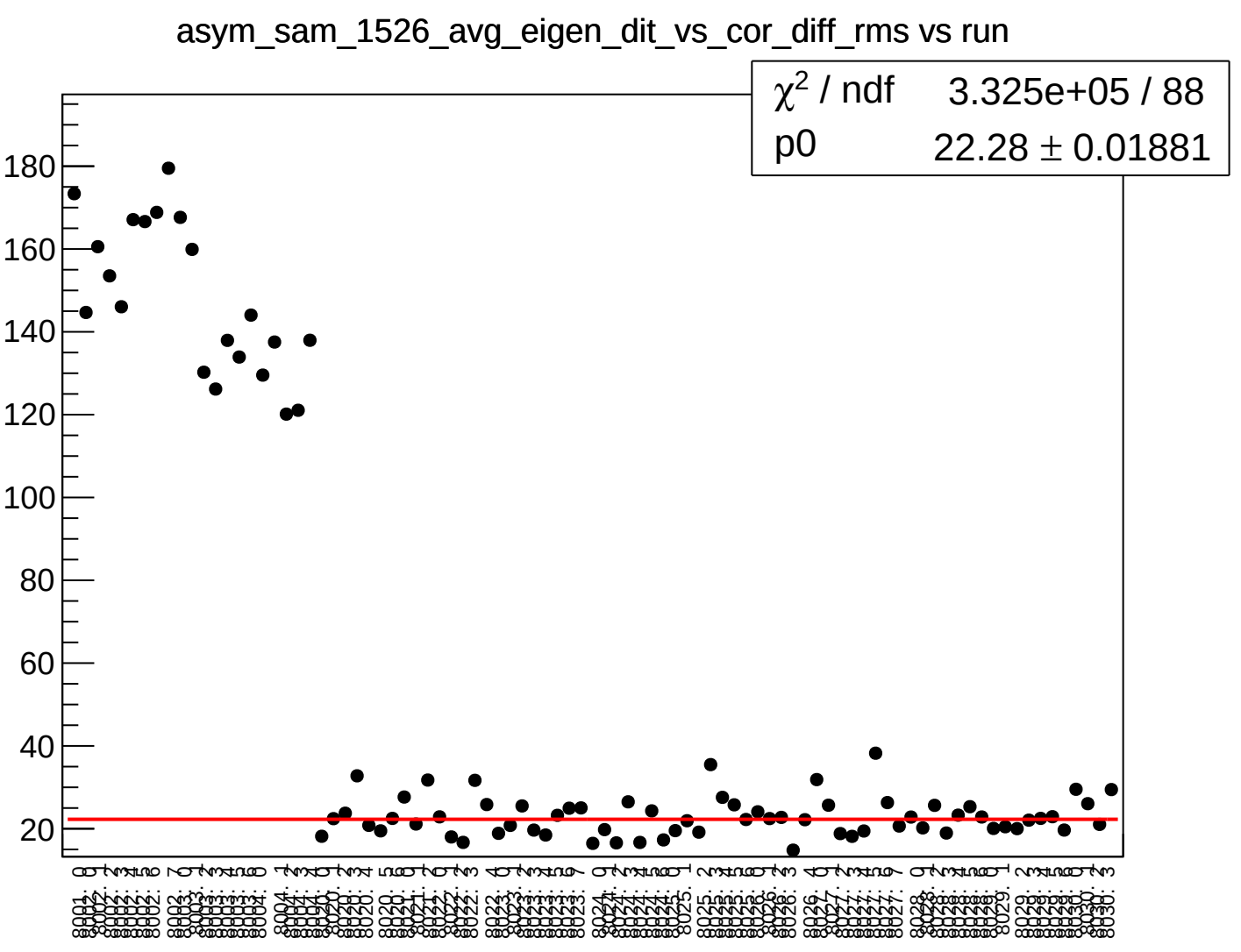

asym_sam_1526_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.9 / 88
p0 −0.01142 ± 0.02661
pull
Entries 89
Mean 125.4
Std Dev 0
pull1D
Entries 89
Mean 0.01329
Std Dev 1.086

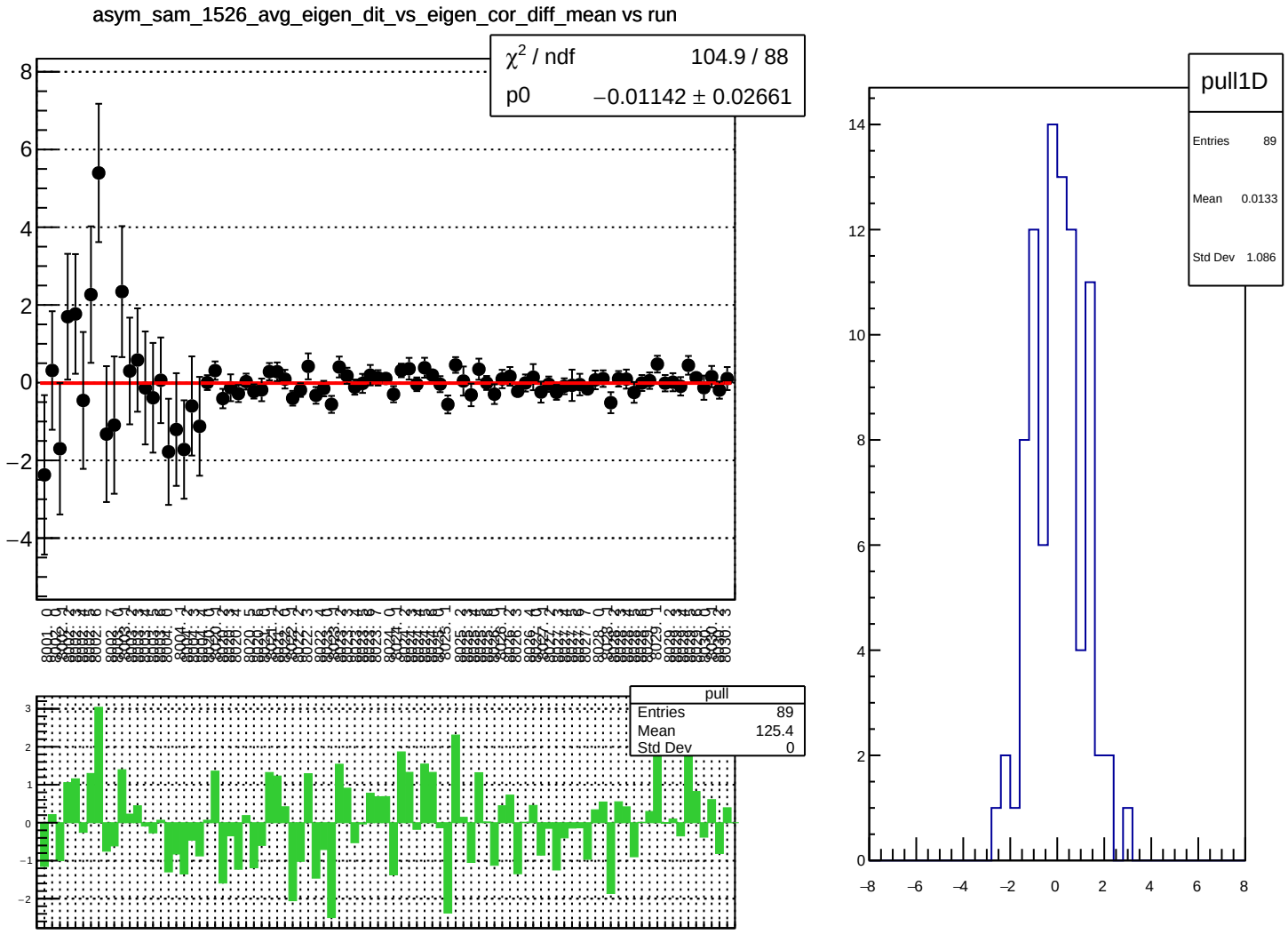

asym_sam_1526_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.325e+05 / 88
p0 22.28 ± 0.01881
180
160
140
120
100
80
60
40
20

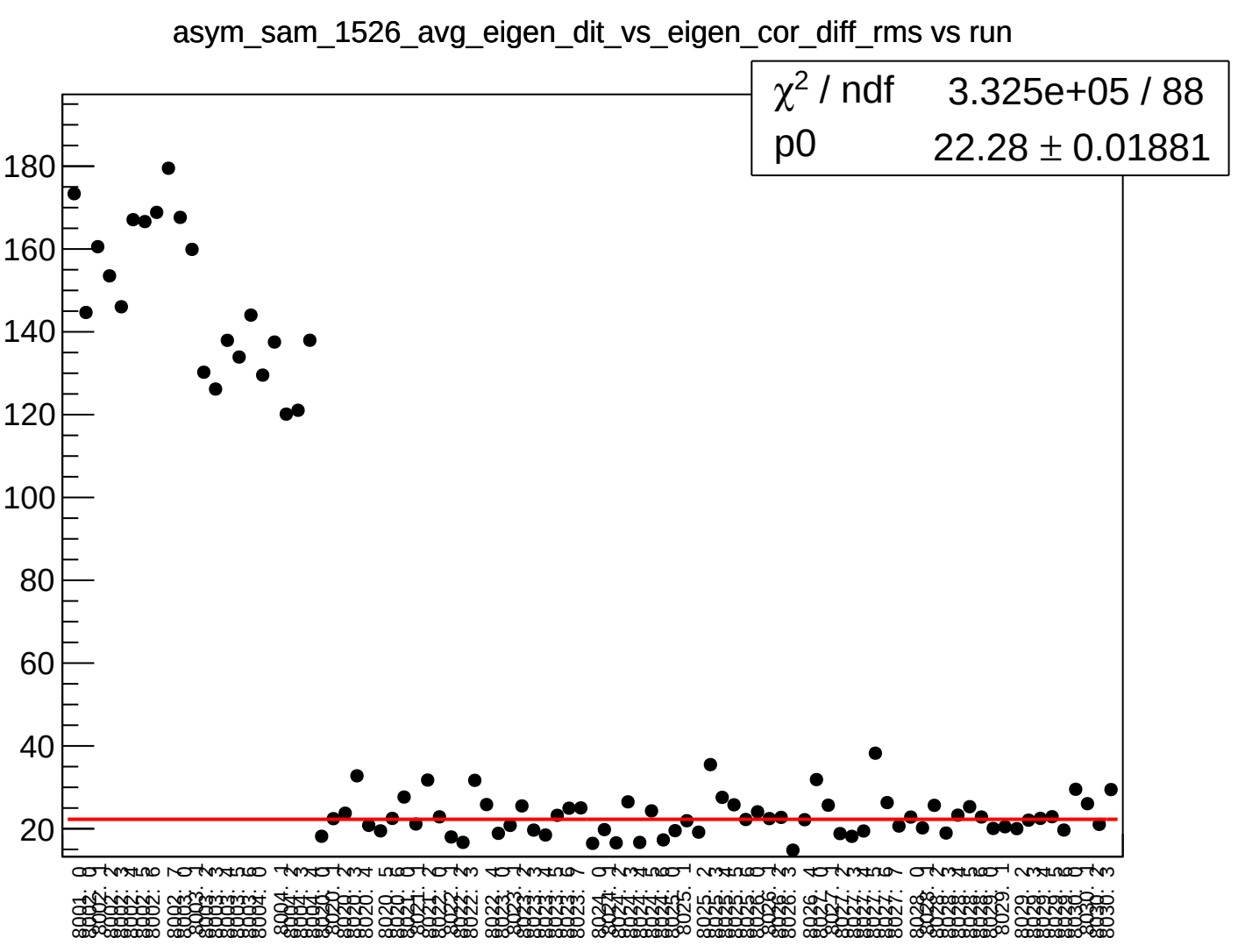

asym_sam_1526_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.67 / 88
p0 −5.681e−07 ± 2.119e−06
pull
Entries 89
Mean 204.9
Std Dev 0
pull1D
Entries 89
Mean 0.01956
Std Dev 1.009

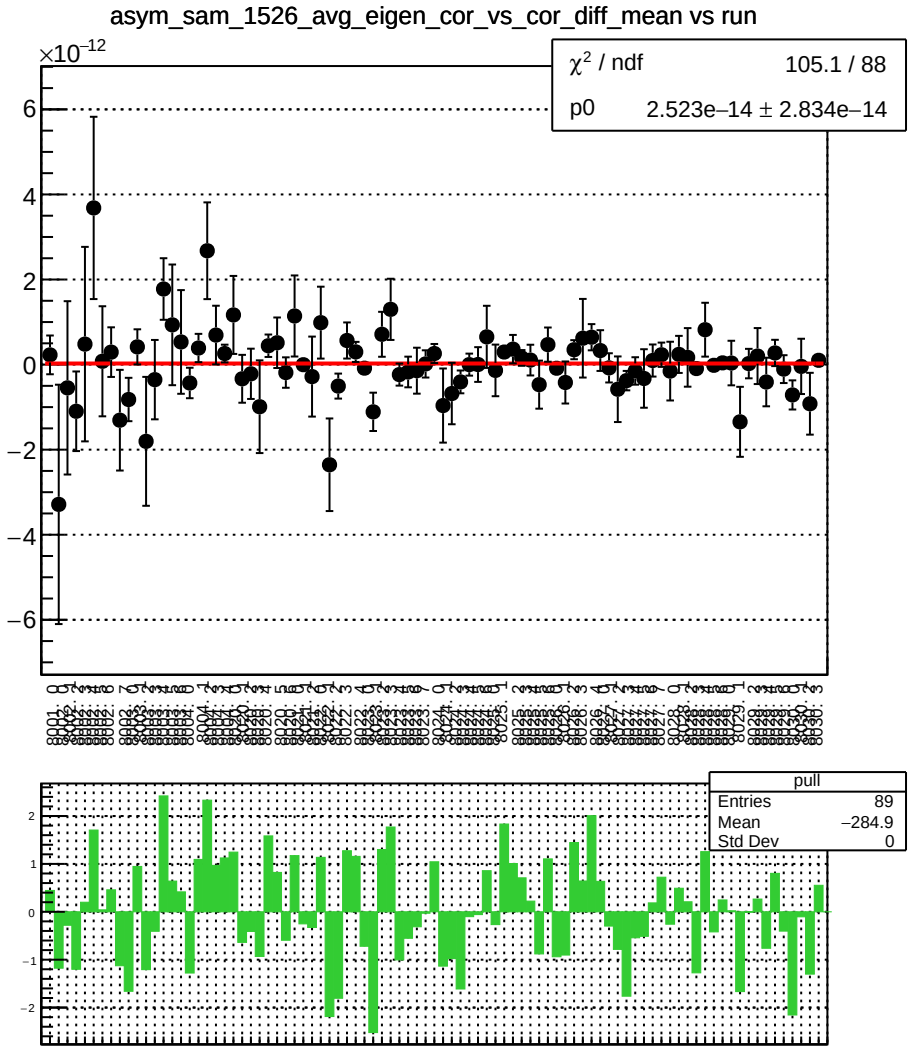

asym_sam_1526_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5373 / 88
p0 0.00197 ± 1.498e−06
0.0022
0.0021
0.002
0.0019
0.0018
0.0017
0.0016

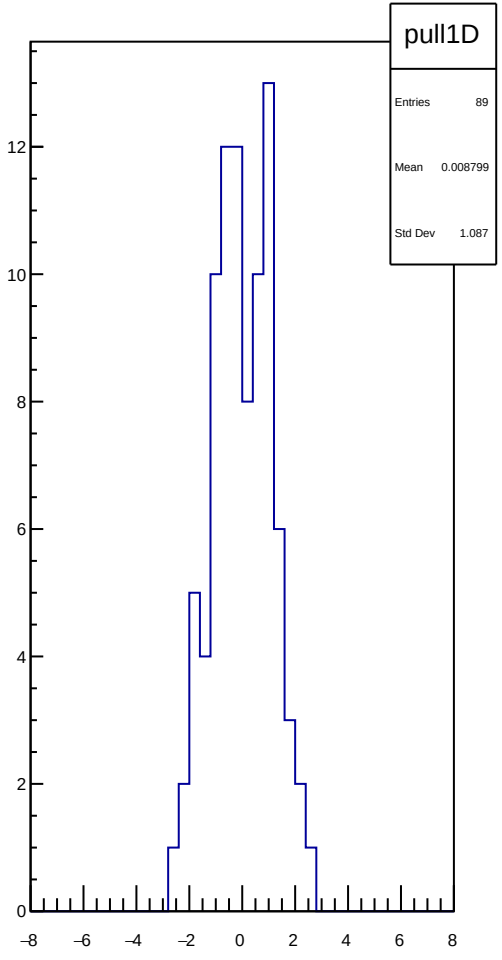

asym_sam_1526_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104.9 / 88
p0 −0.01142 ± 0.02661
pull
Entries 89
Mean 125.4
Std Dev 0
pull1D
Entries 89
Mean 0.0133
Std Dev 1.086

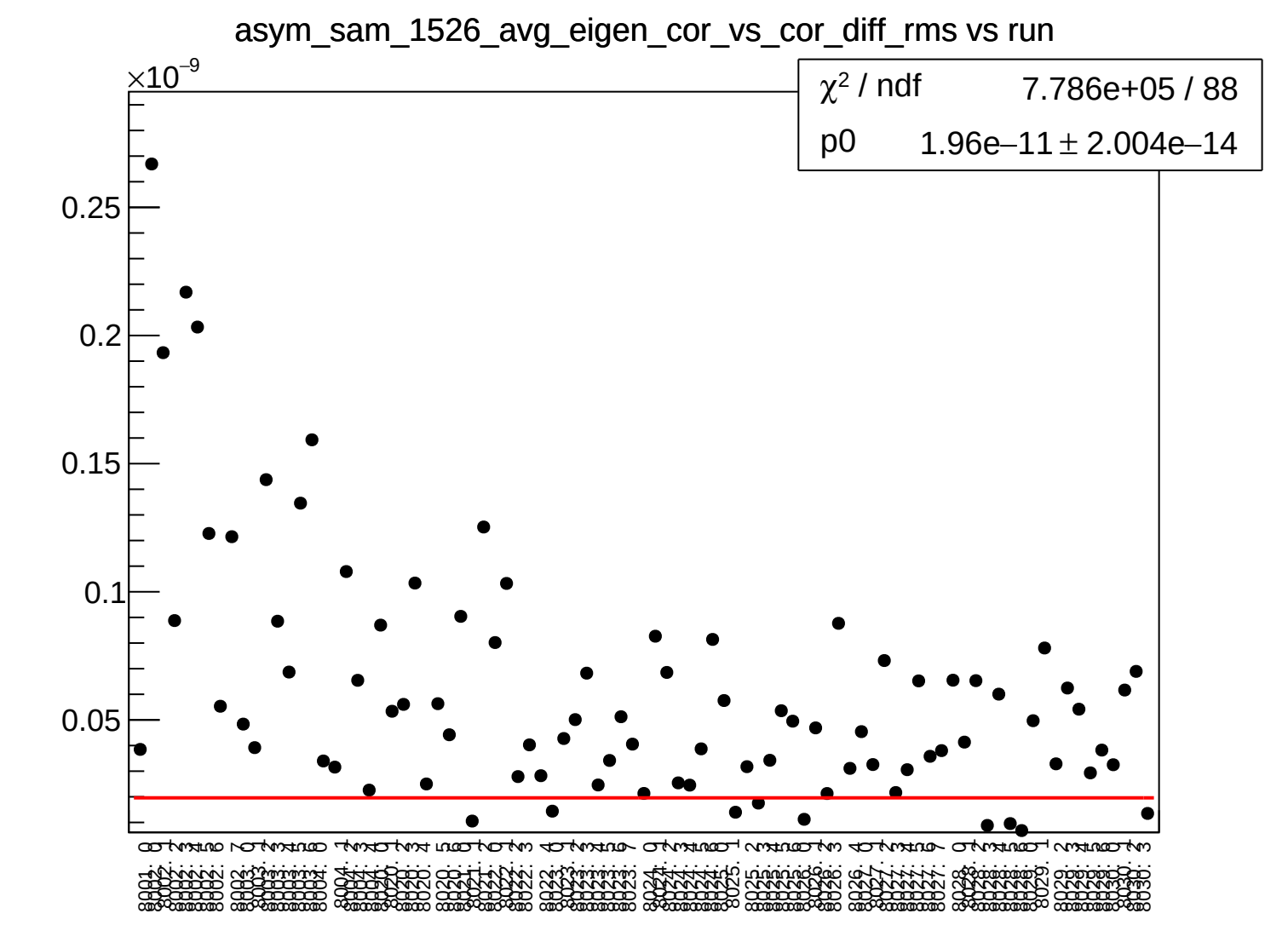

asym_sam_1526_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.325e+05 / 88
p0 22.28 ± 0.01881
180
160
140
120
100
80
60
40
20

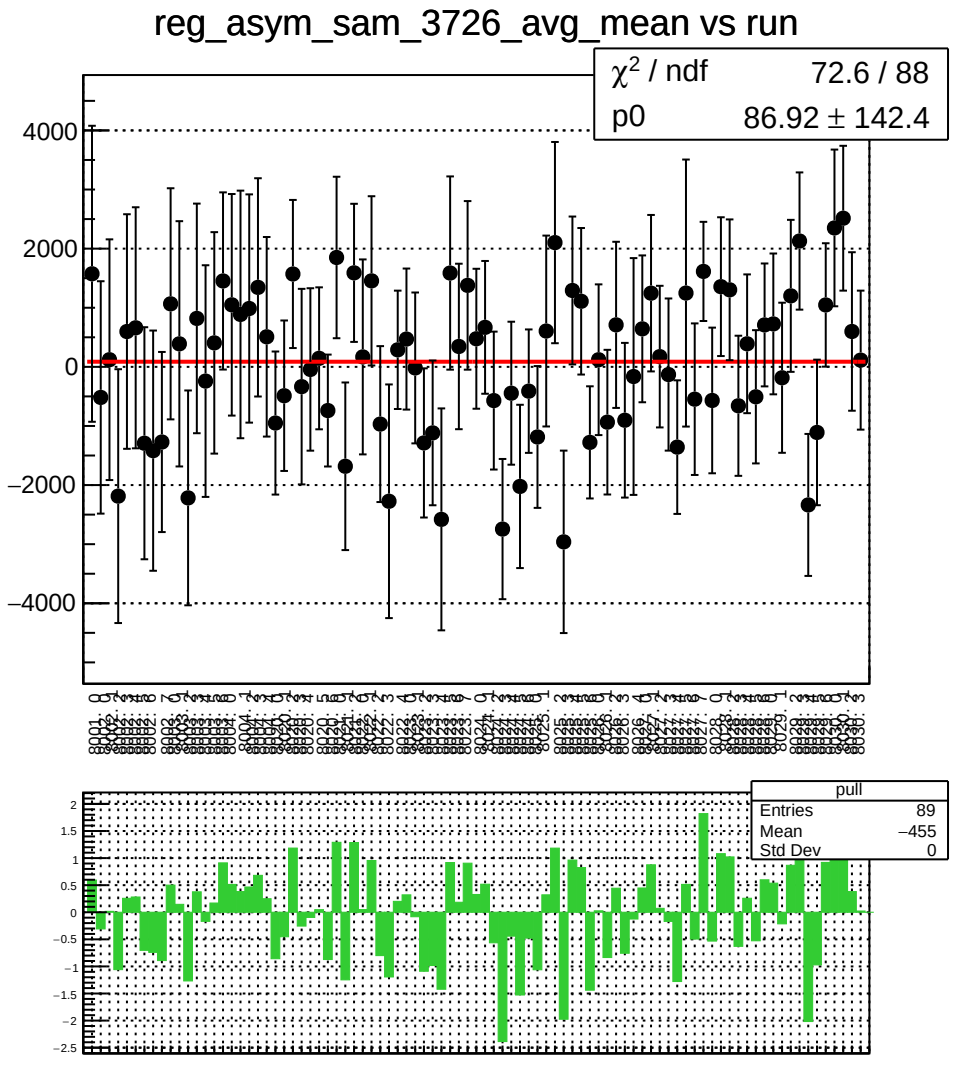

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.9 / 88
p0 −0.01142 ± 0.02661
pull
Entries 89
Mean 125.4
Std Dev 0
pull1D
Entries 89
Mean 0.0133
Std Dev 1.086

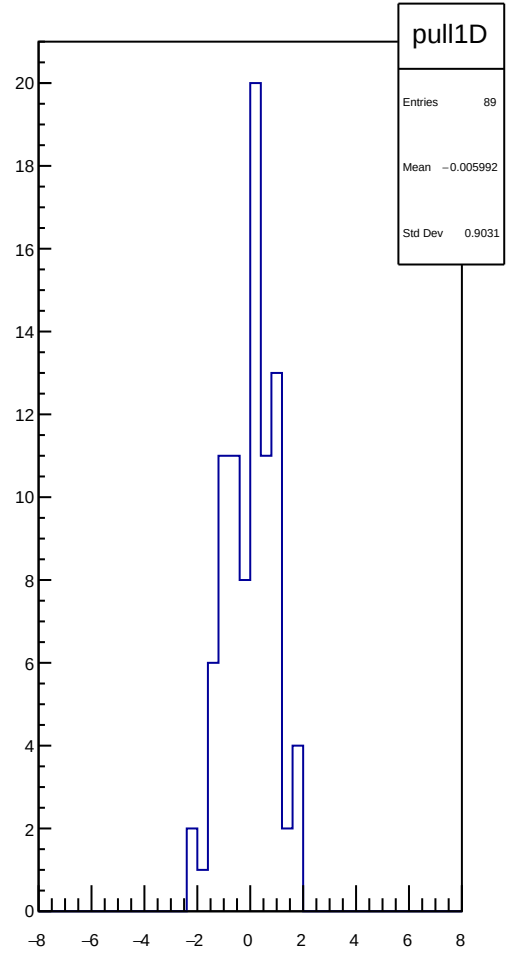

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.325e+05 / 88
p0 22.28 ± 0.01881
180
160
140
120
100
80
60
40
20

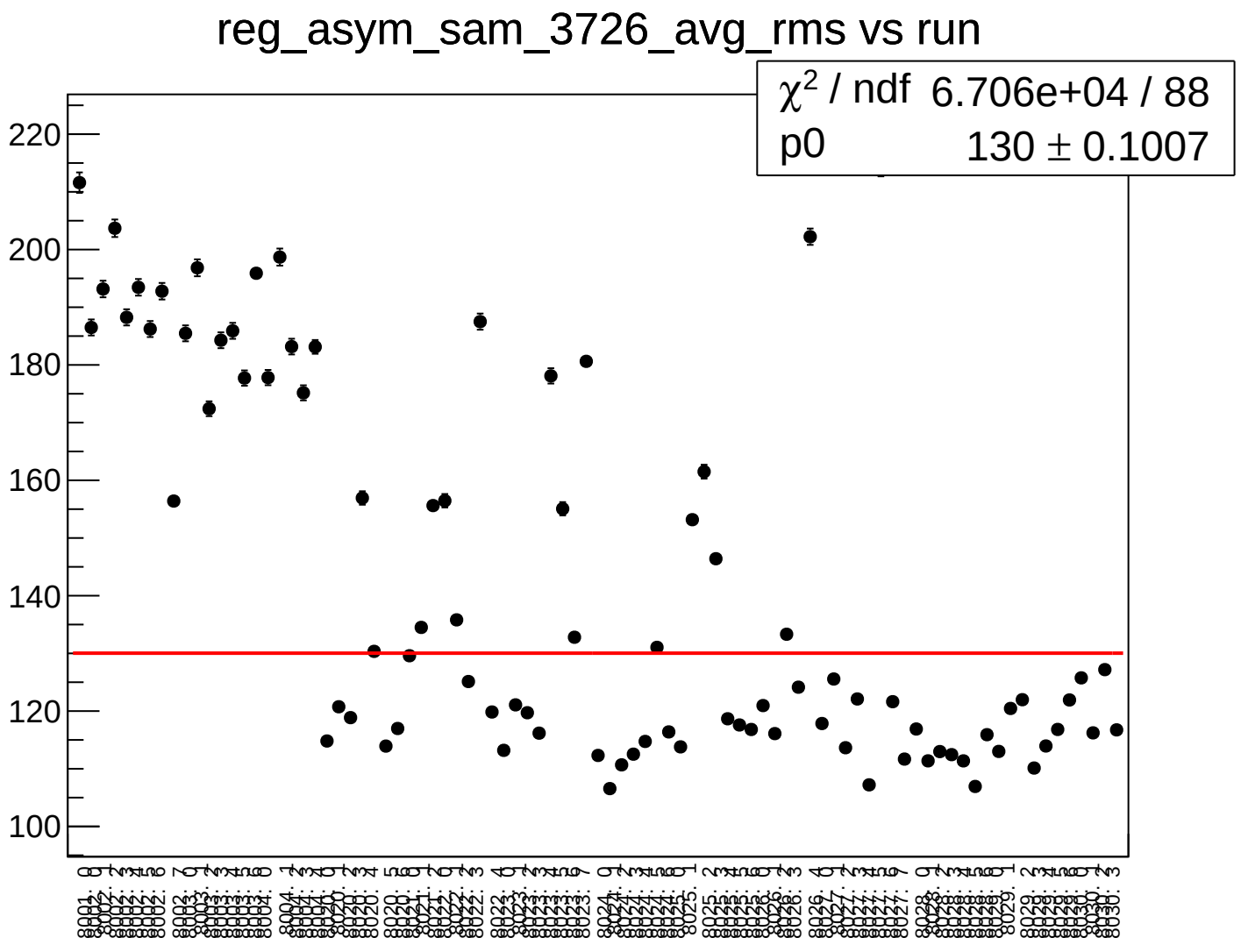

asym_sam_1526_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 105.1 / 88
p0 2.523e−14 ± 2.834e−14
pull
Entries 89
Mean −284.9
Std Dev 0

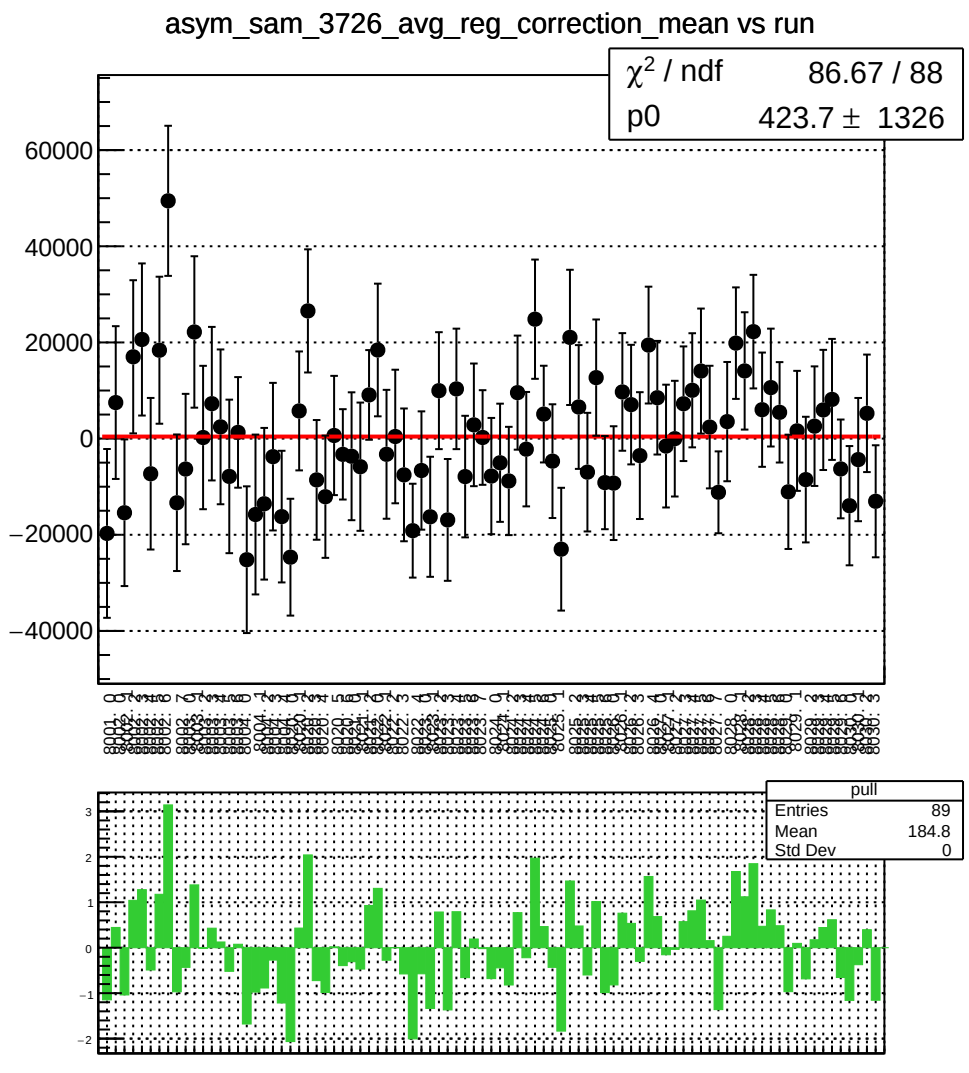

pull1D
Entries 89
Mean 0.008799
Std Dev 1.087

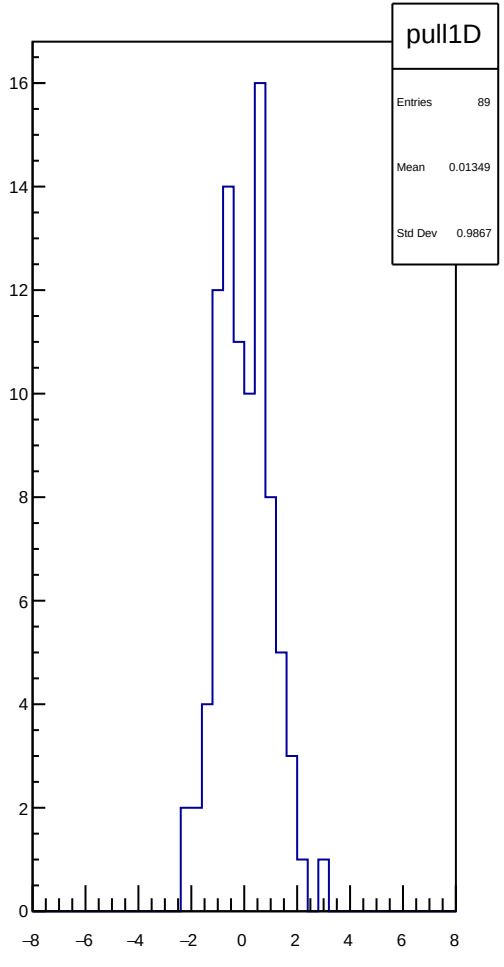

asym_sam_1526_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.786e+05 / 88
p0 1.96e−11 ± 2.004e−14
0.25
0.2
0.15
0.1
0.05

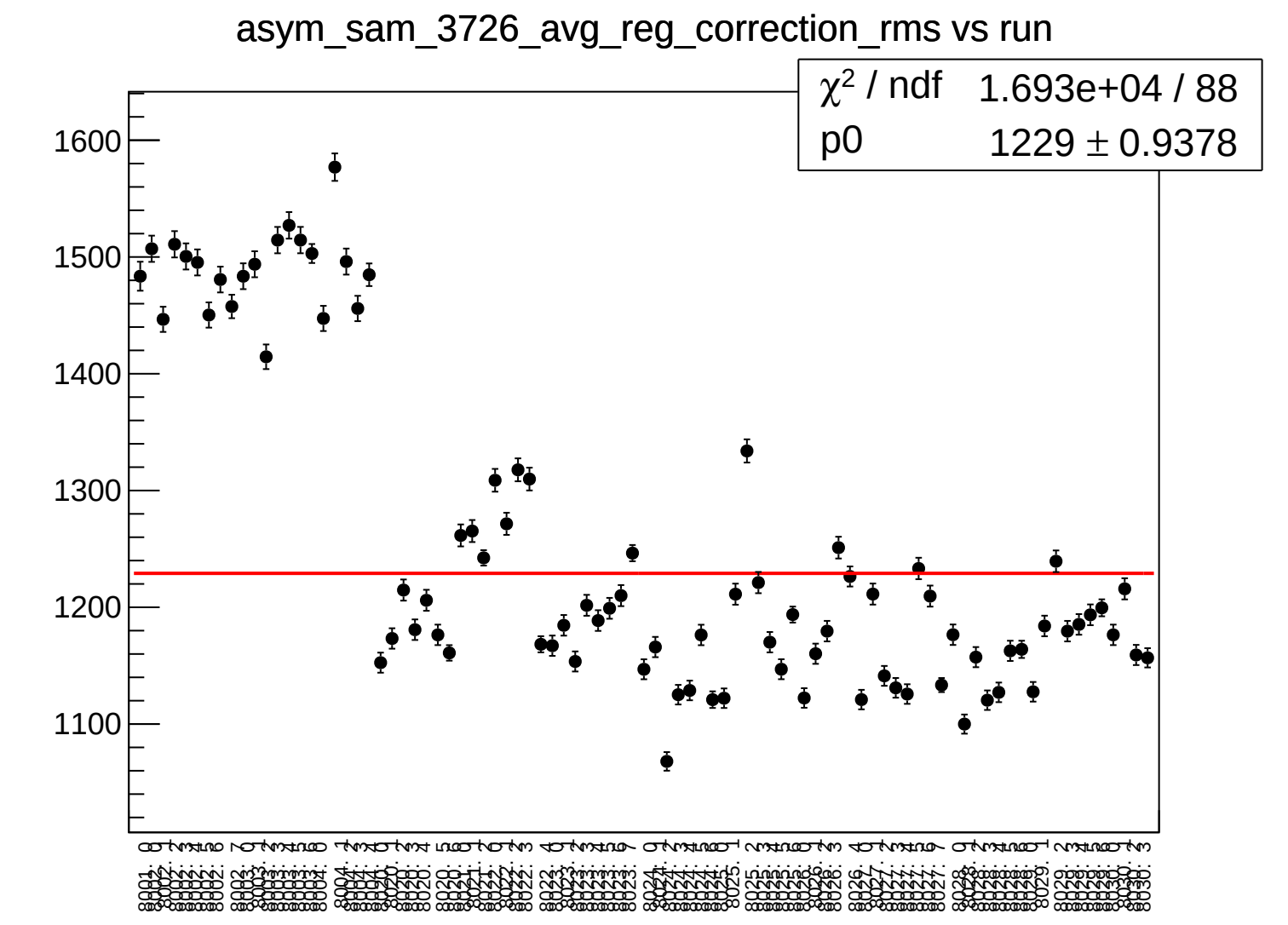

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 72.6 / 88
p0 86.92 ± 142.4
4000
2000
0
−2000
−4000
pull
Entries 89
Mean −455
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

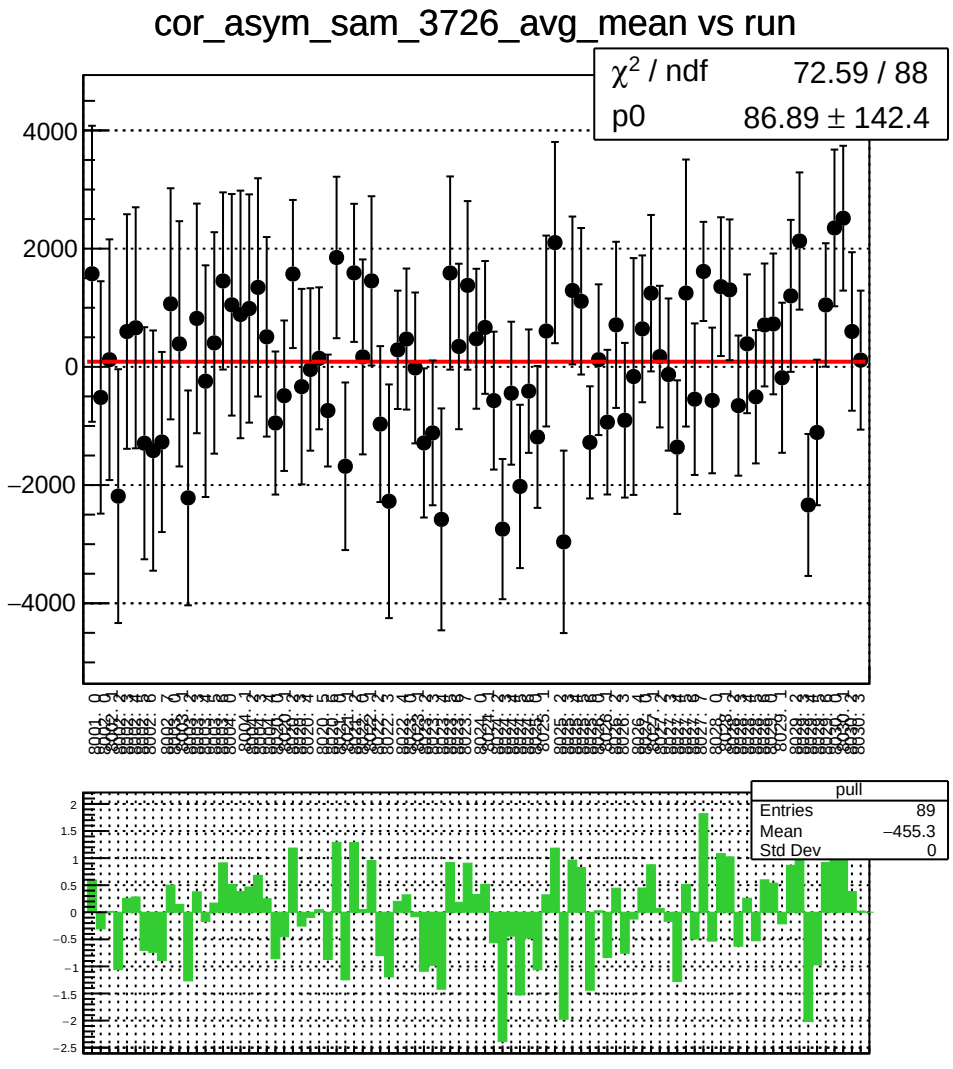

pull1D
Entries 89
Mean −0.005992
Std Dev 0.9031
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

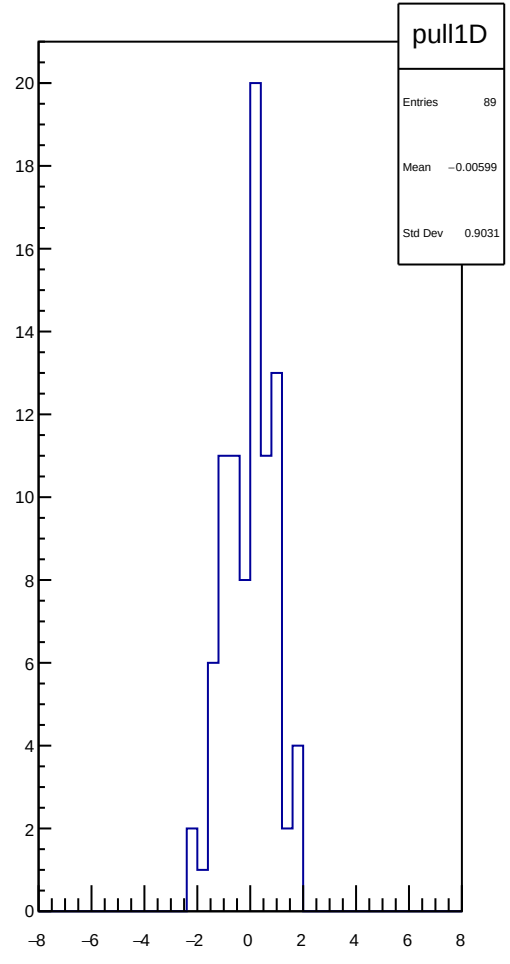

reg_asym_sam_3726_avg_rms vs run
χ^2 / ndf 6.706e+04 / 88
p0 130 ± 0.1007
220
200
180
160
140
120
100

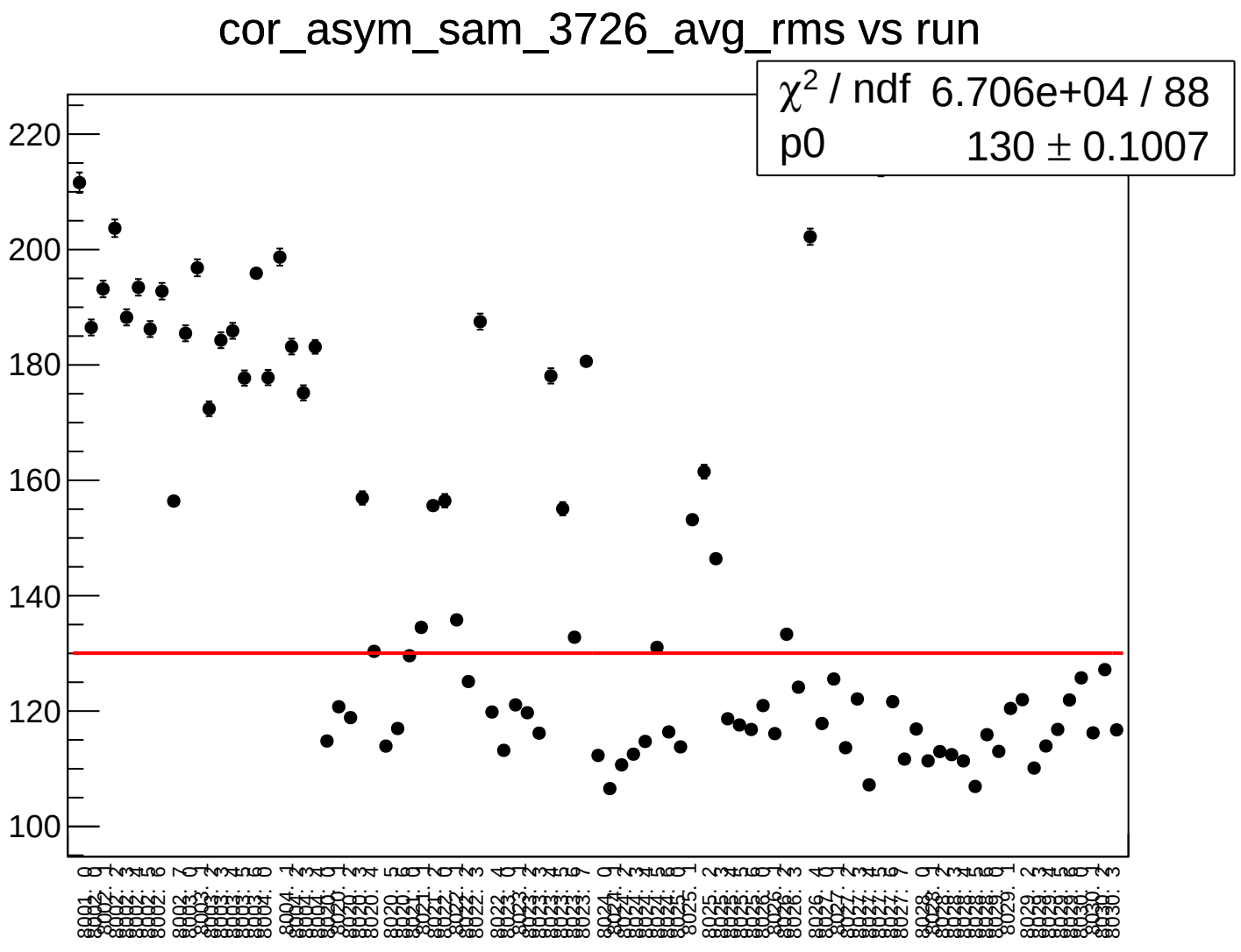

asym_sam_3726_avg_reg_correction_mean vs run
χ² / ndf 86.67 / 88
p0 423.7 ± 1326
pull
Entries 89
Mean 184.8
Std Dev 0

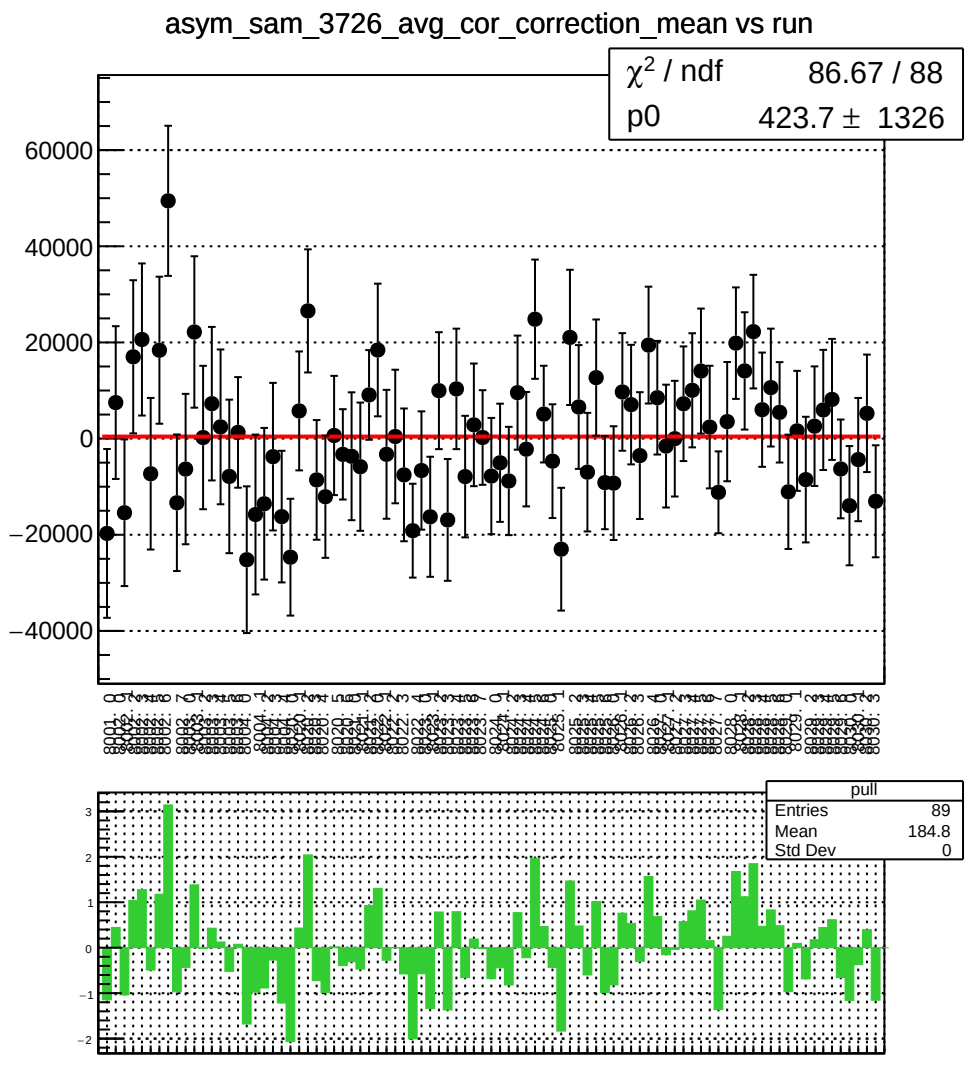

pull1D
Entries 89
Mean 0.01349
Std Dev 0.9867

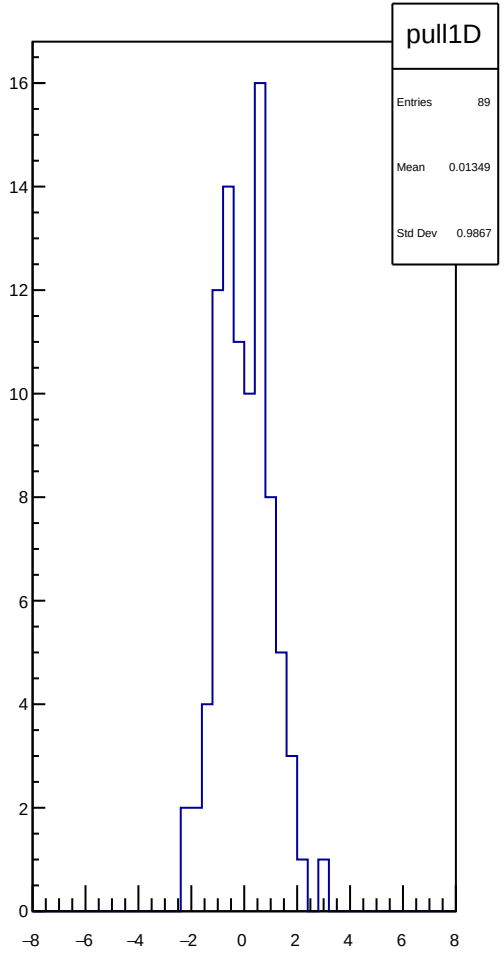

asym_sam_3726_avg_reg_correction_rms vs run
χ² / ndf 1.693e+04 / 88
p0 1229 ± 0.9378
1600
1500
1400
1300
1200
1100

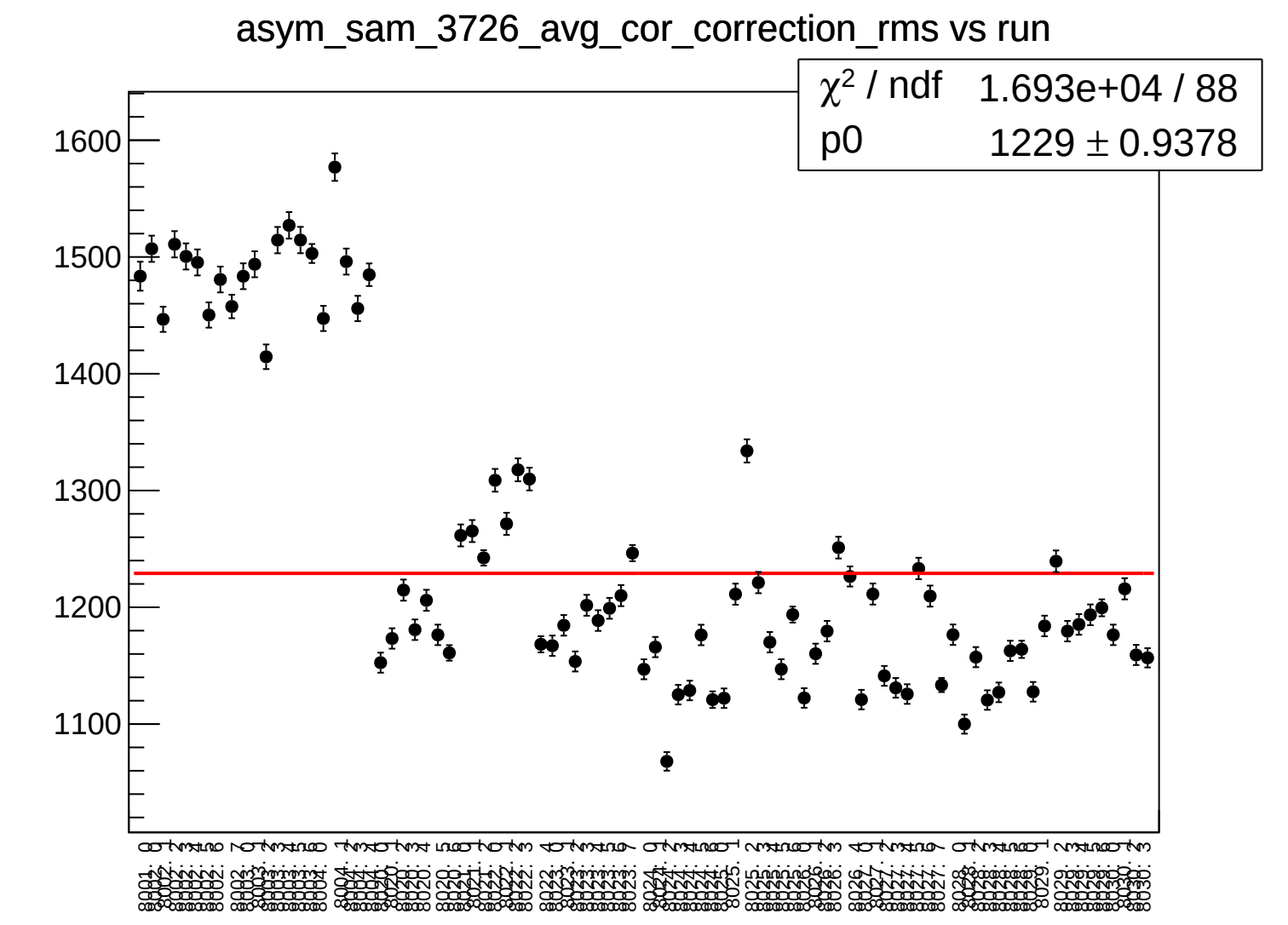

cor_asym_sam_3726_avg_mean vs run
χ² / ndf 72.59 / 88
p0 86.89 ± 142.4
4000
2000
0
−2000
−4000
pull
Entries 89
Mean −455.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

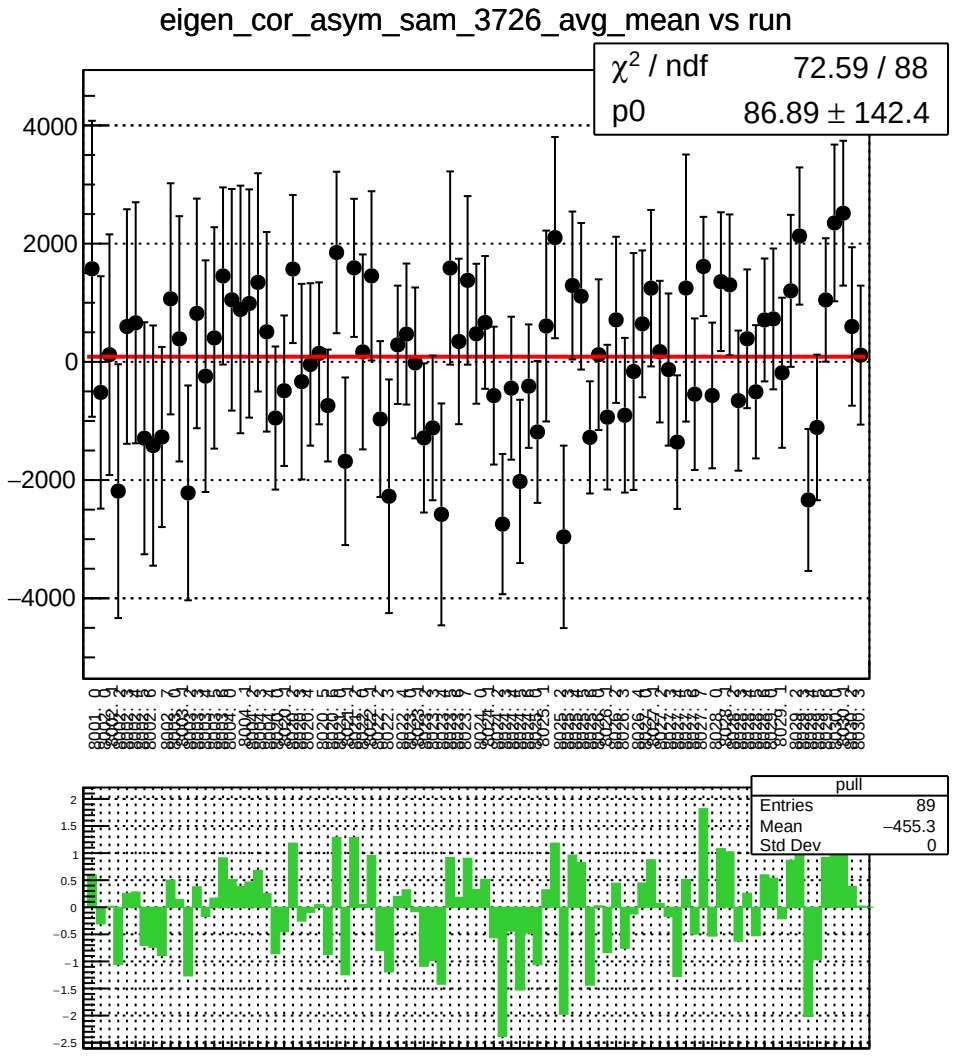

pull1D
Entries 89
Mean −0.00599
Std Dev 0.9031
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

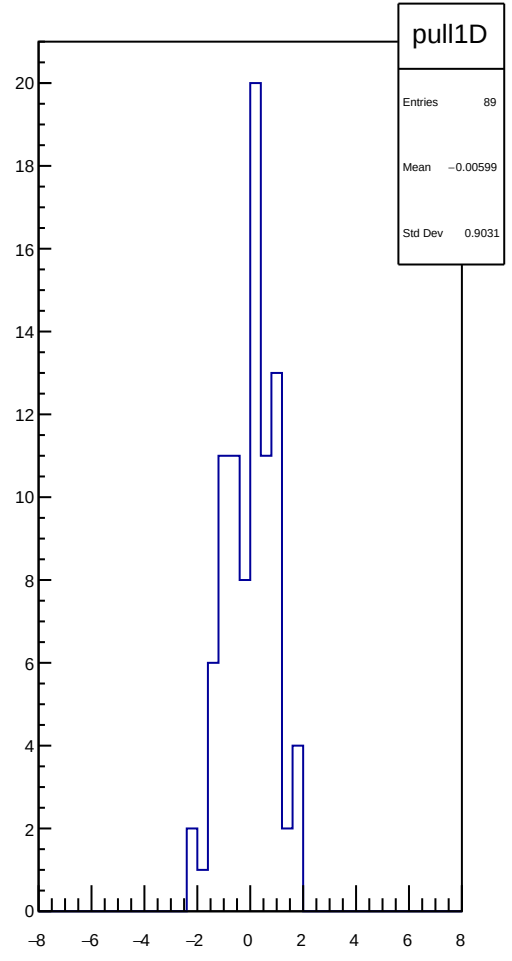

cor_asym_sam_3726_avg_rms vs run
χ^2 / ndf 6.706e+04 / 88
p0 130 ± 0.1007
220
200
180
160
140
120
100

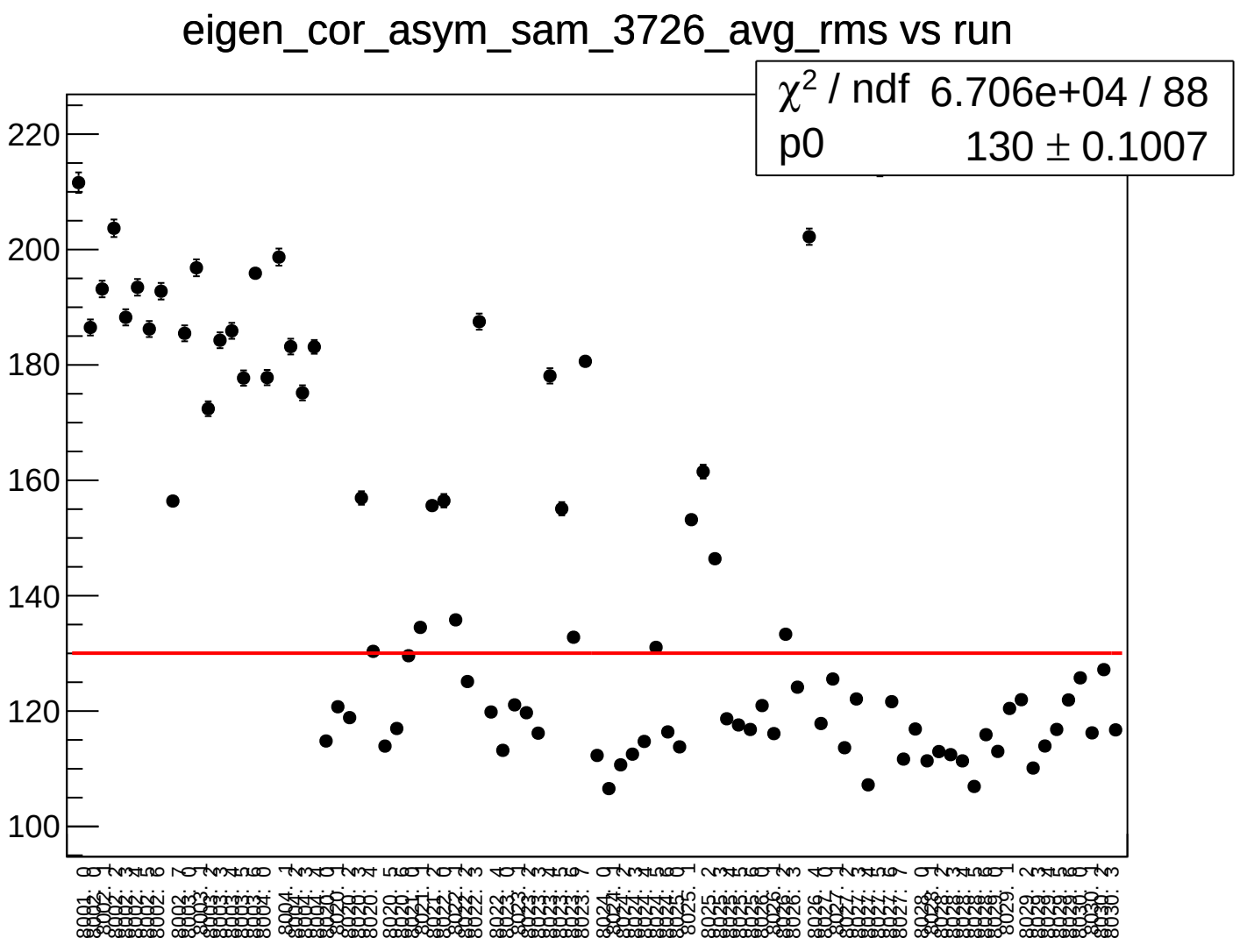

asym_sam_3726_avg_cor_correction_mean vs run
χ² / ndf 86.67 / 88
p0 423.7 ± 1326
pull
Entries 89
Mean 184.8
Std Dev 0

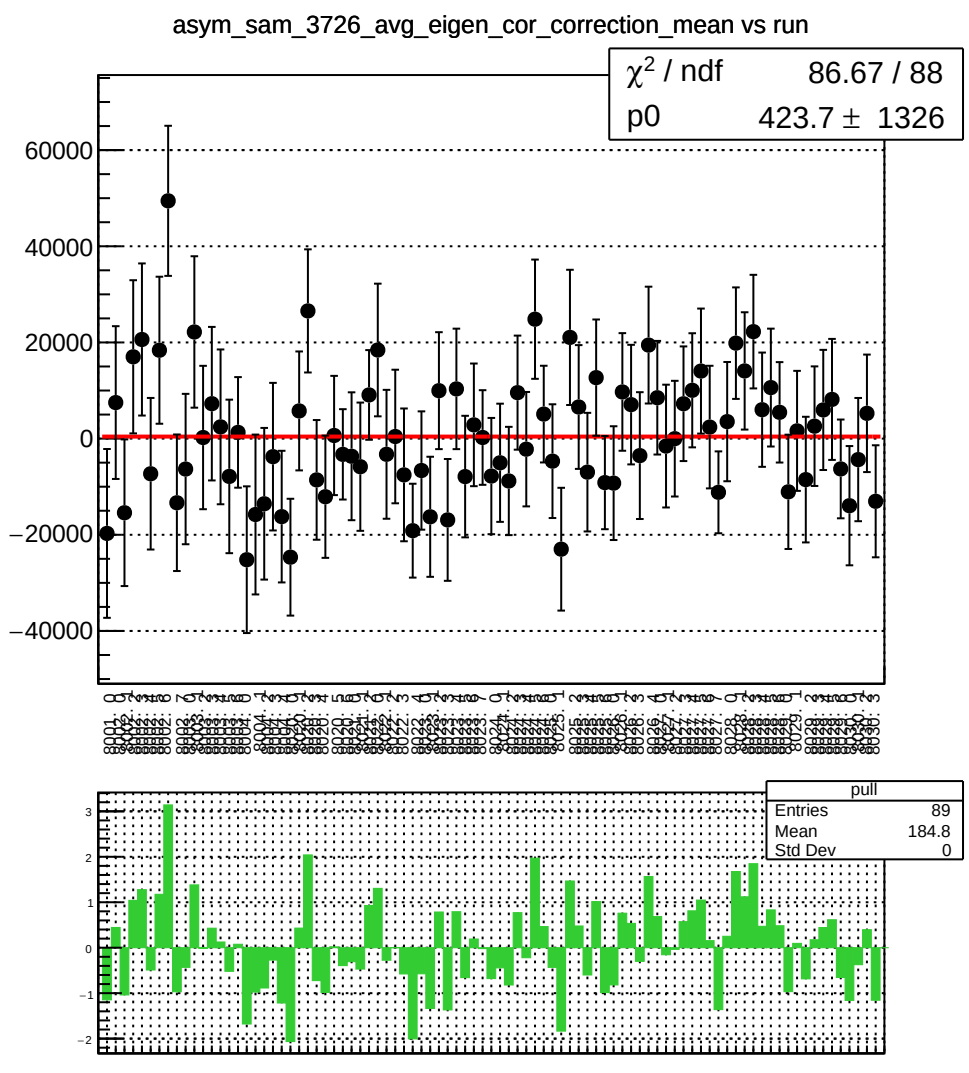

pull1D
Entries 89
Mean 0.01349
Std Dev 0.9867

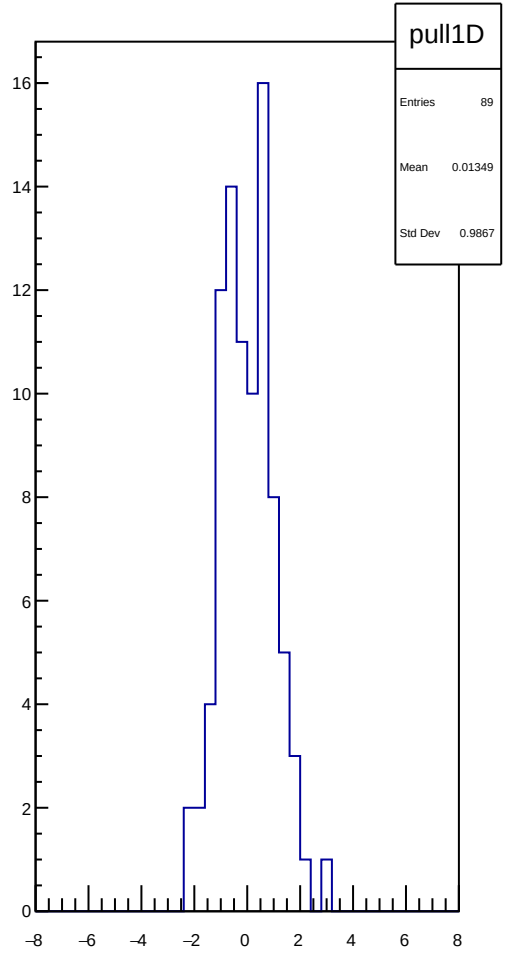

asym_sam_3726_avg_cor_correction_rms vs run
χ² / ndf 1.693e+04 / 88
p0 1229 ± 0.9378
1600
1500
1400
1300
1200
1100

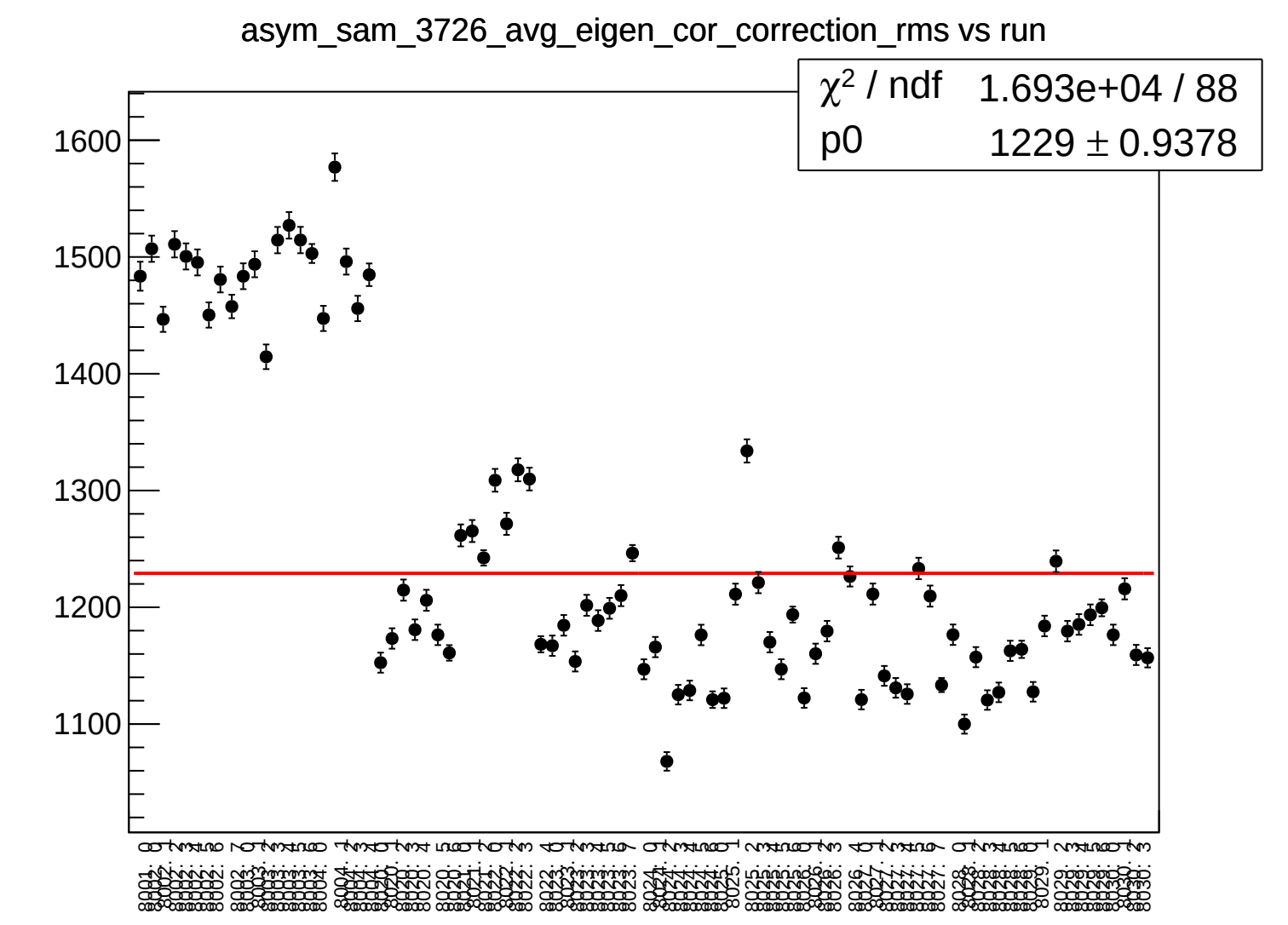

eigen_cor_asym_sam_3726_avg_mean vs run
χ² / ndf 72.59 / 88
p0 86.89 ± 142.4
4000
2000
0
−2000
−4000
pull
Entries 89
Mean −455.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

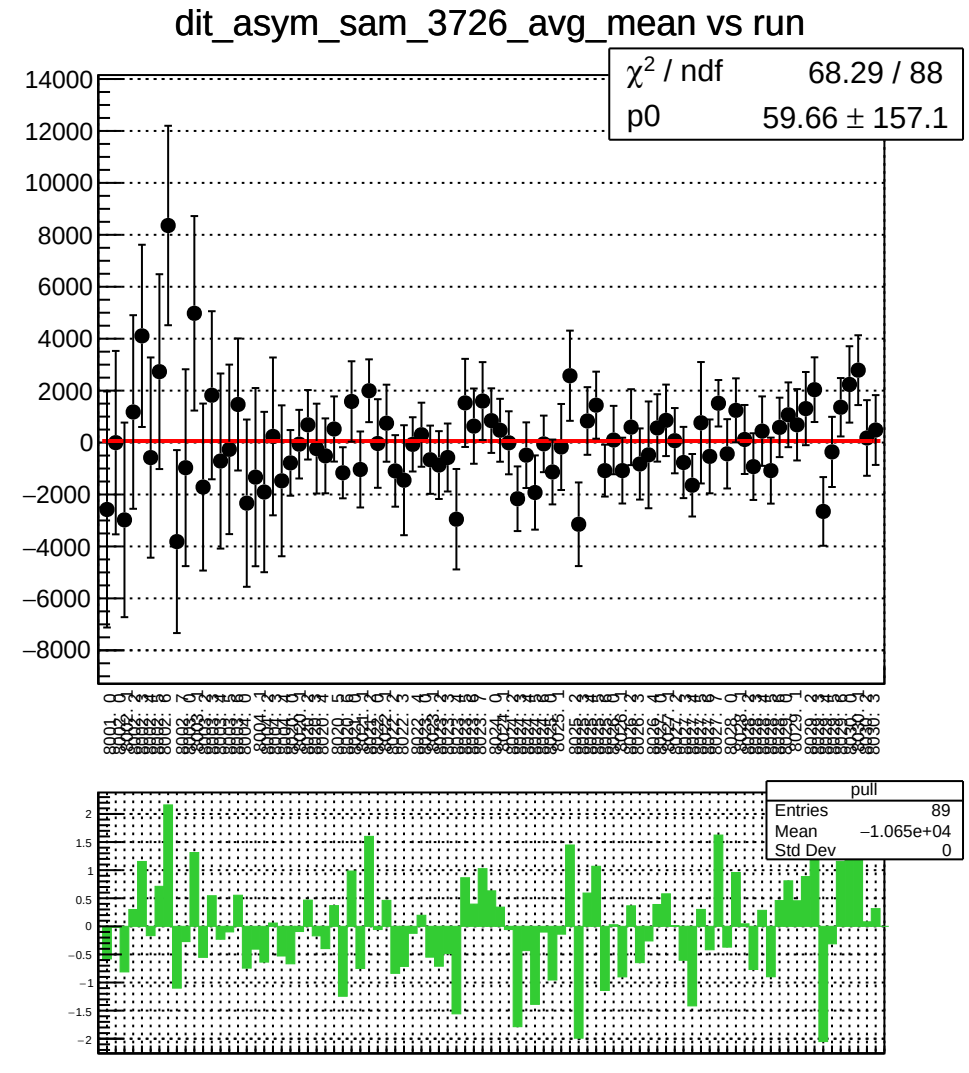

pull1D
Entries 89
Mean −0.00599
Std Dev 0.9031
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

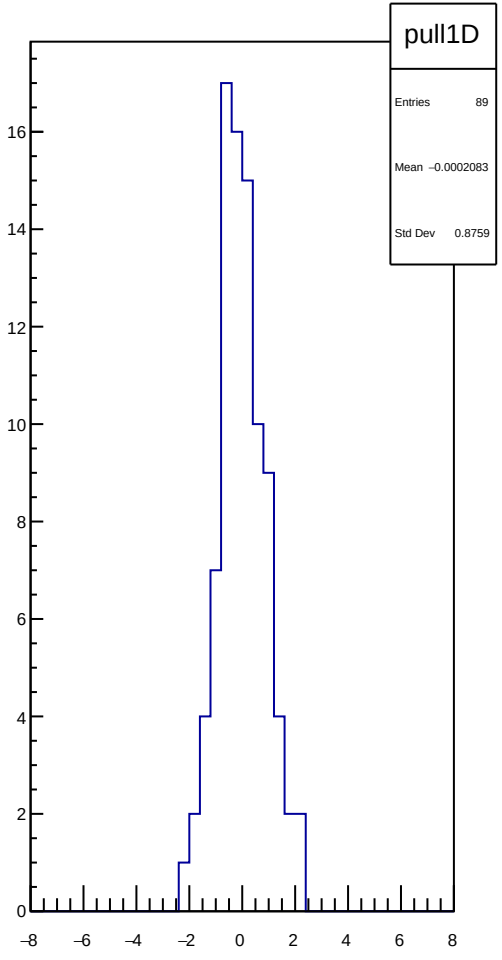

eigen_cor_asym_sam_3726_avg_rms vs run
χ² / ndf 6.706e+04 / 88
p0 130 ± 0.1007
220
200
180
160
140
120
100

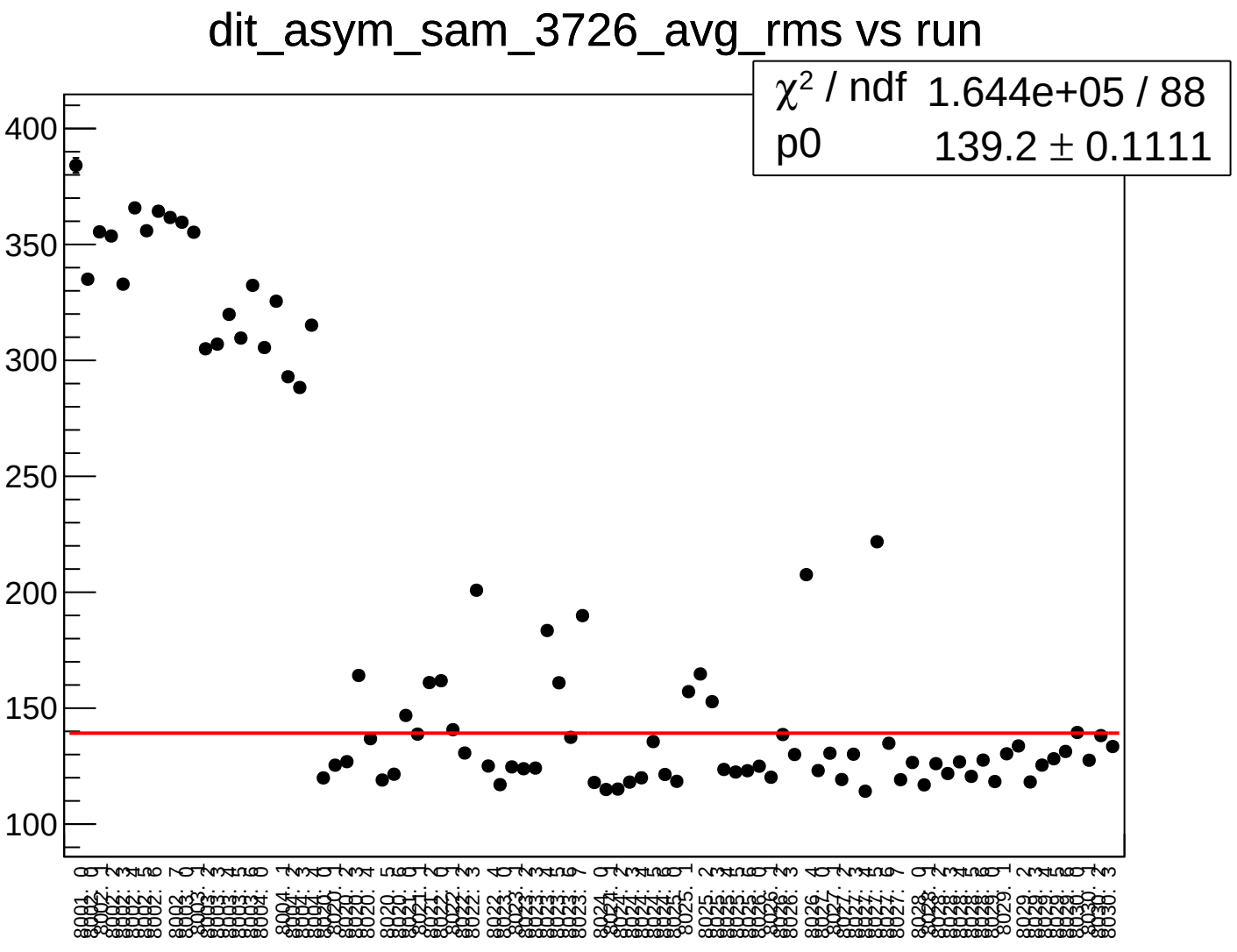

asym_sam_3726_avg_eigen_cor_correction_mean vs run
χ² / ndf 86.67 / 88
p0 423.7 ± 1326
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 184.8
Std Dev 0
3
2
1
0
−1
−2

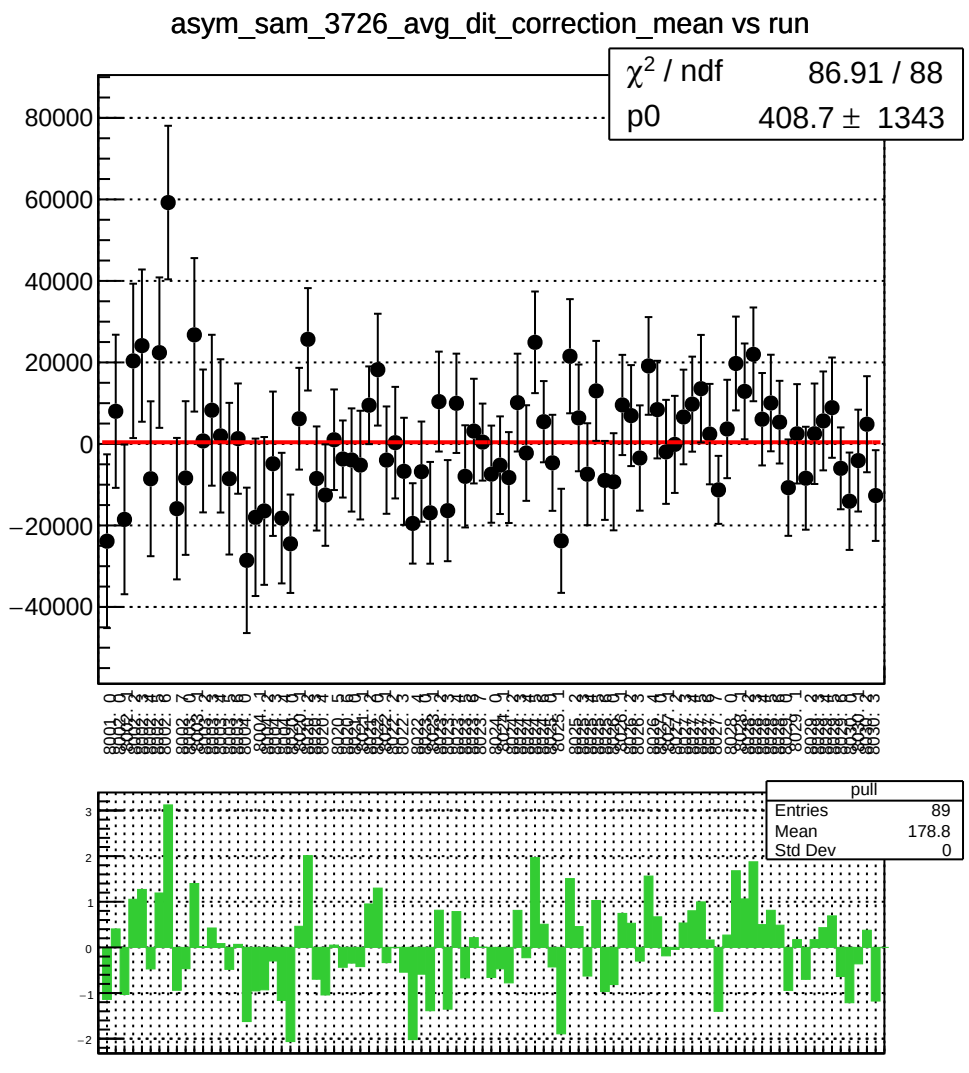

pull1D
Entries 89
Mean 0.01349
Std Dev 0.9867
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

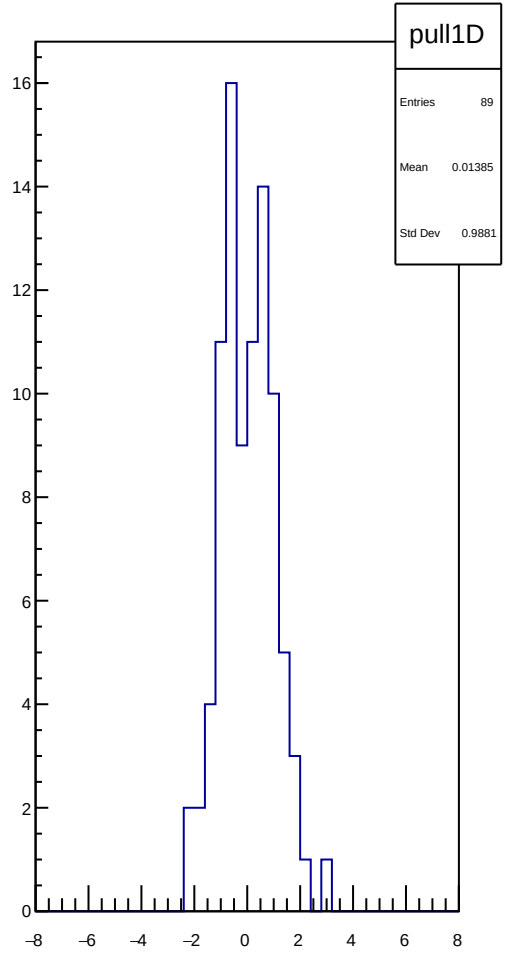

asym_sam_3726_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.693e+04 / 88
p0 1229 ± 0.9378
1600
1500
1400
1300
1200
1100

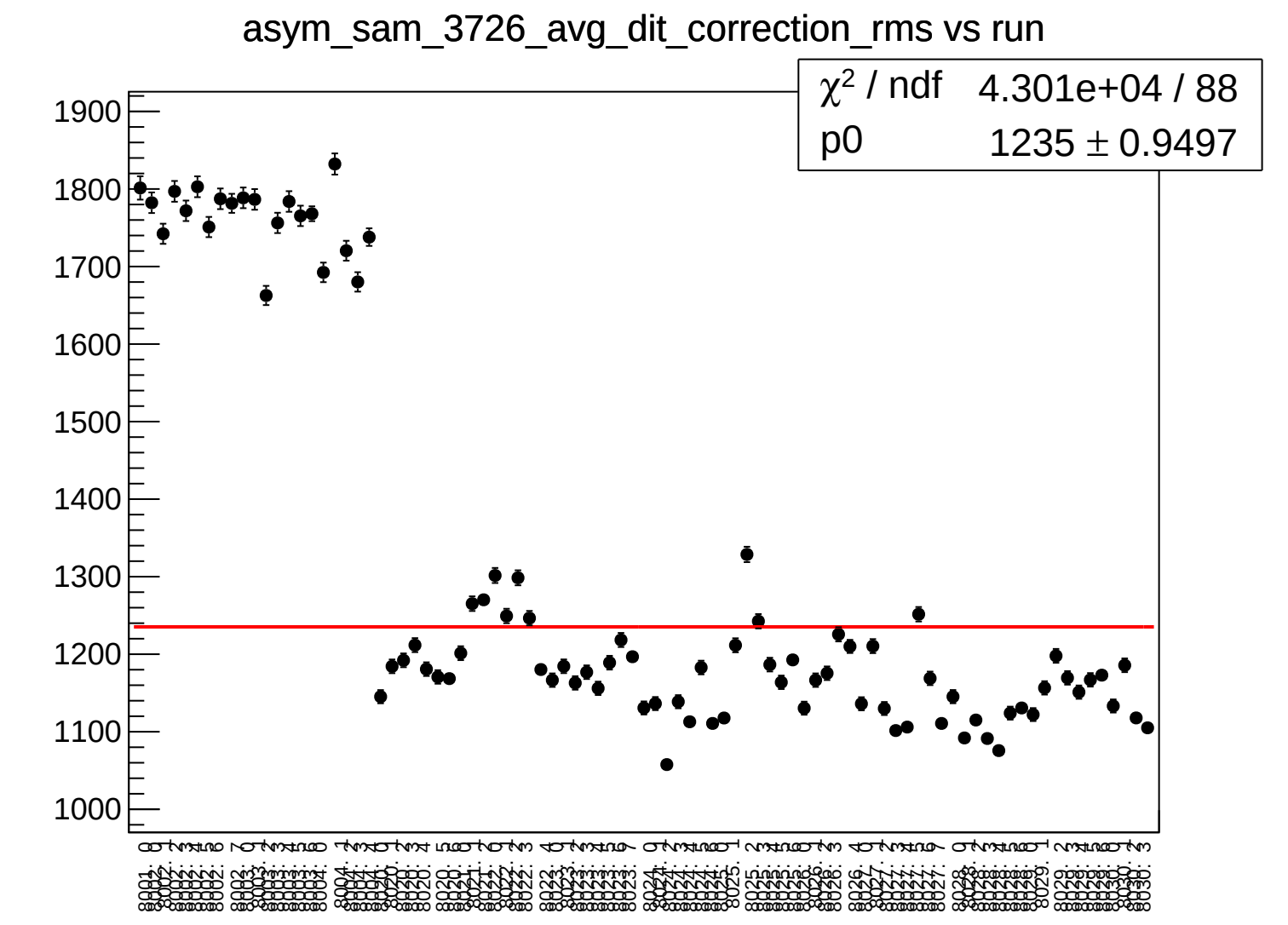

dit_asym_sam_3726_avg_mean vs run
χ^2 / ndf 68.29 / 88
p0 59.66 ± 157.1
pull
Entries 89
Mean −1.065e+04
Std Dev 0

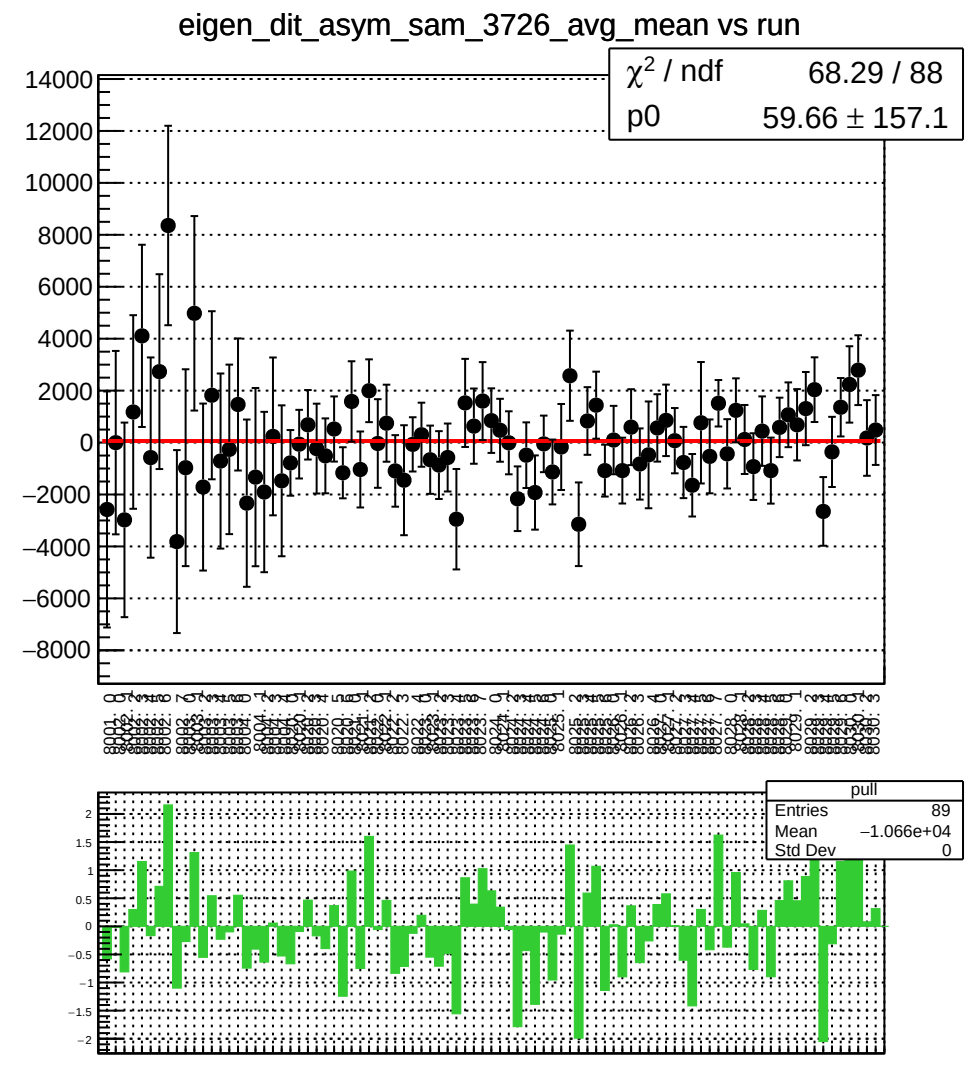

pull1D
Entries 89
Mean −0.0002083
Std Dev 0.8759

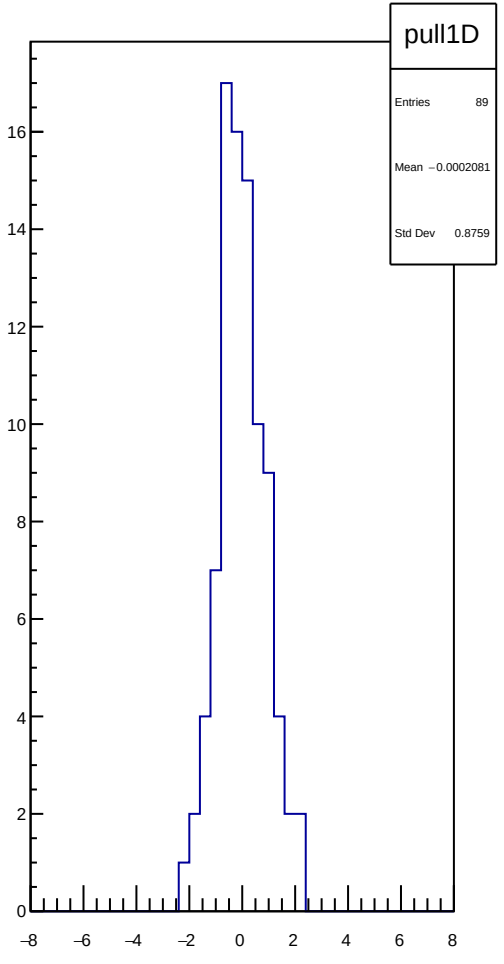

dit_asym_sam_3726_avg_rms vs run
χ² / ndf 1.644e+05 / 88
p0 139.2 ± 0.1111
400
350
300
250
200
150
100

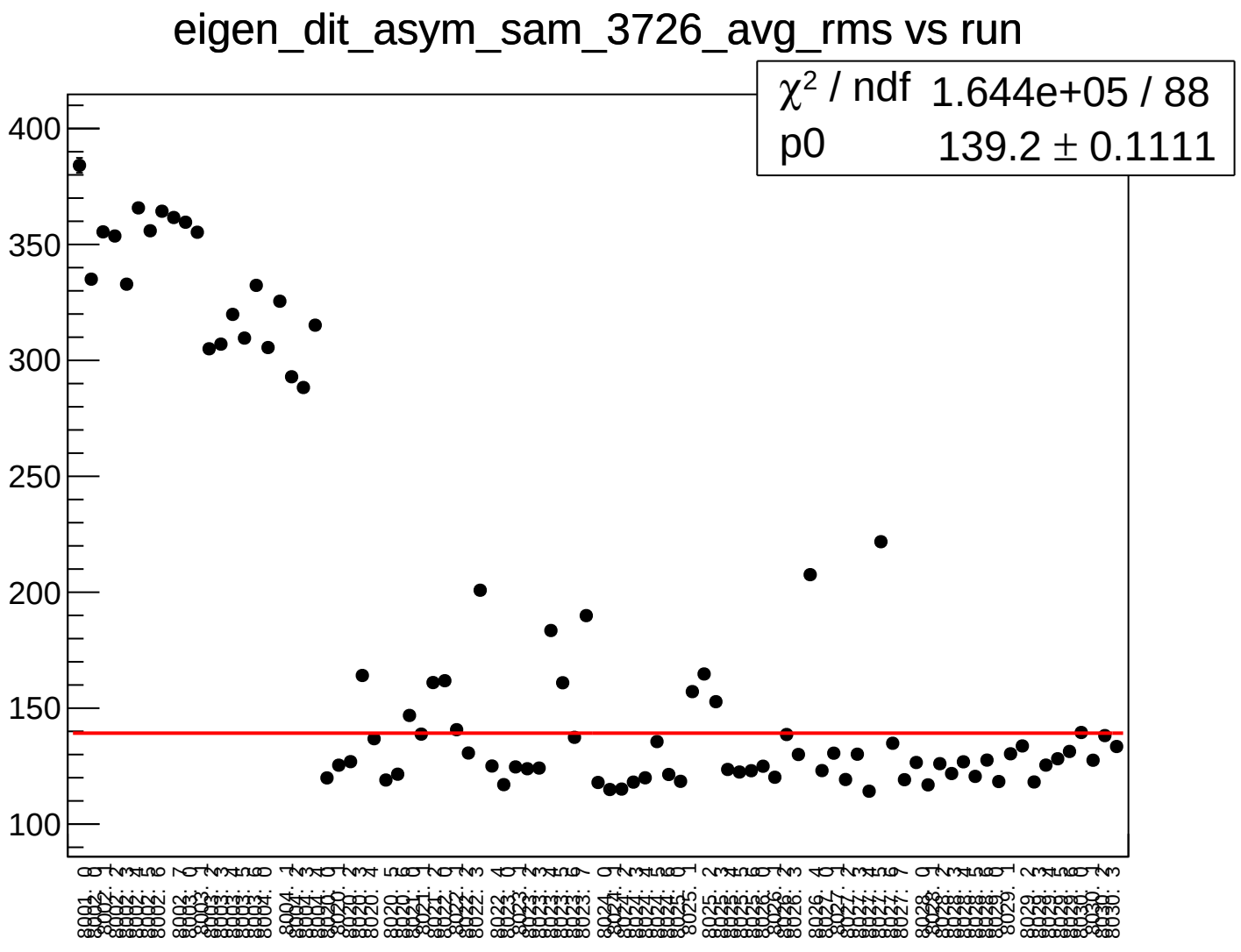

asym_sam_3726_avg_dit_correction_mean vs run
χ² / ndf 86.91 / 88
p0 408.7 ± 1343
80000
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 178.8
Std Dev 0
3
2
1
0
−1
−2

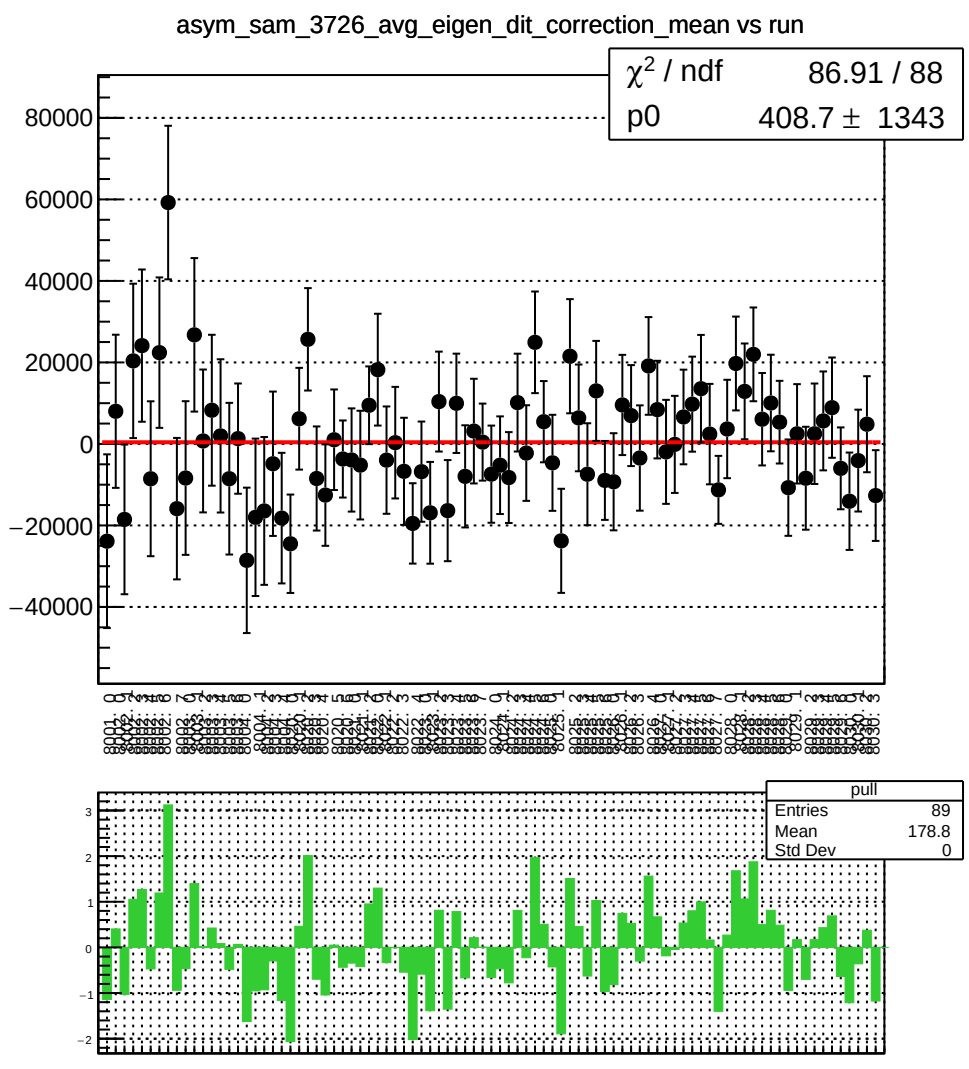

pull1D
Entries 89
Mean 0.01385
Std Dev 0.9881
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

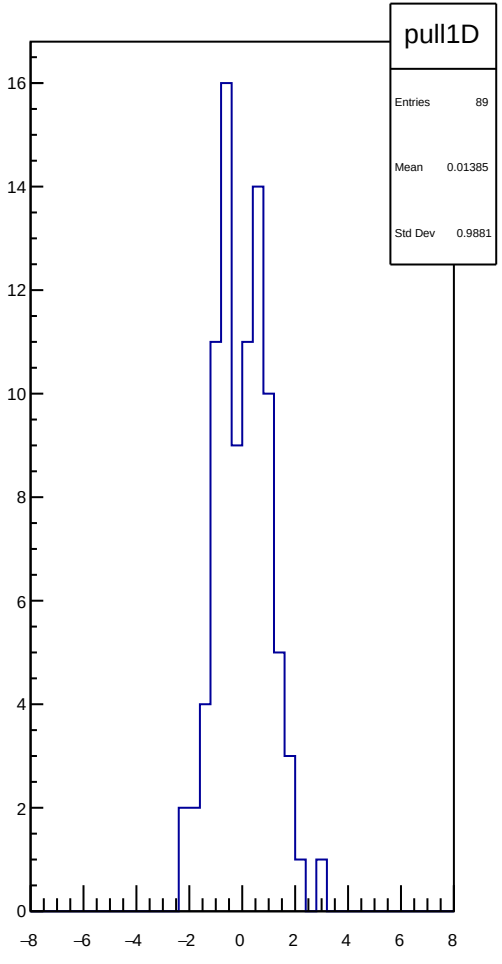

asym_sam_3726_avg_dit_correction_rms vs run
χ² / ndf 4.301e+04 / 88
p0 1235 ± 0.9497
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000

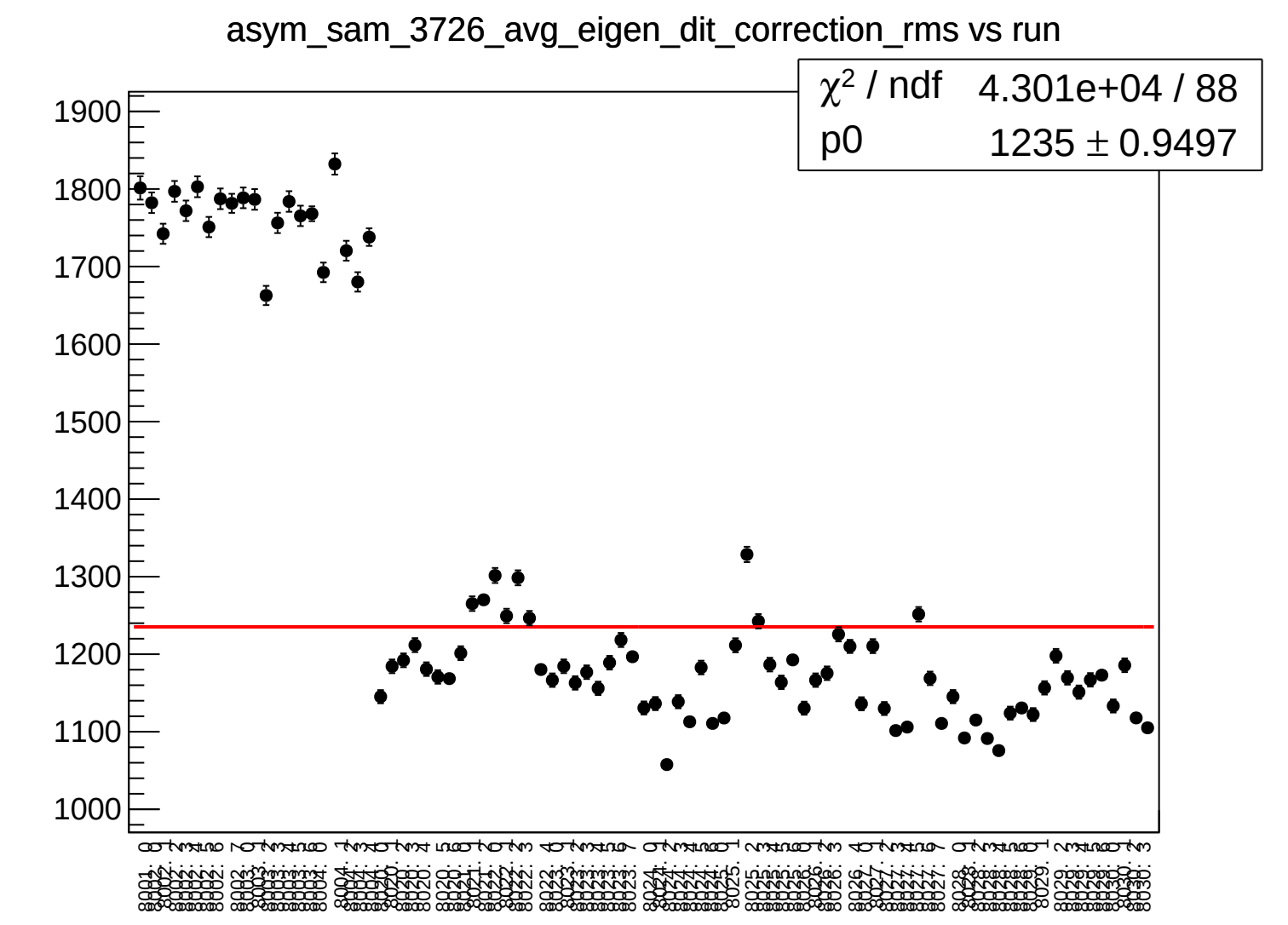

eigen_dit_asym_sam_3726_avg_mean vs run
χ^2 / ndf 68.29 / 88
p0 59.66 ± 157.1
pull
Entries 89
Mean −1.066e+04
Std Dev 0

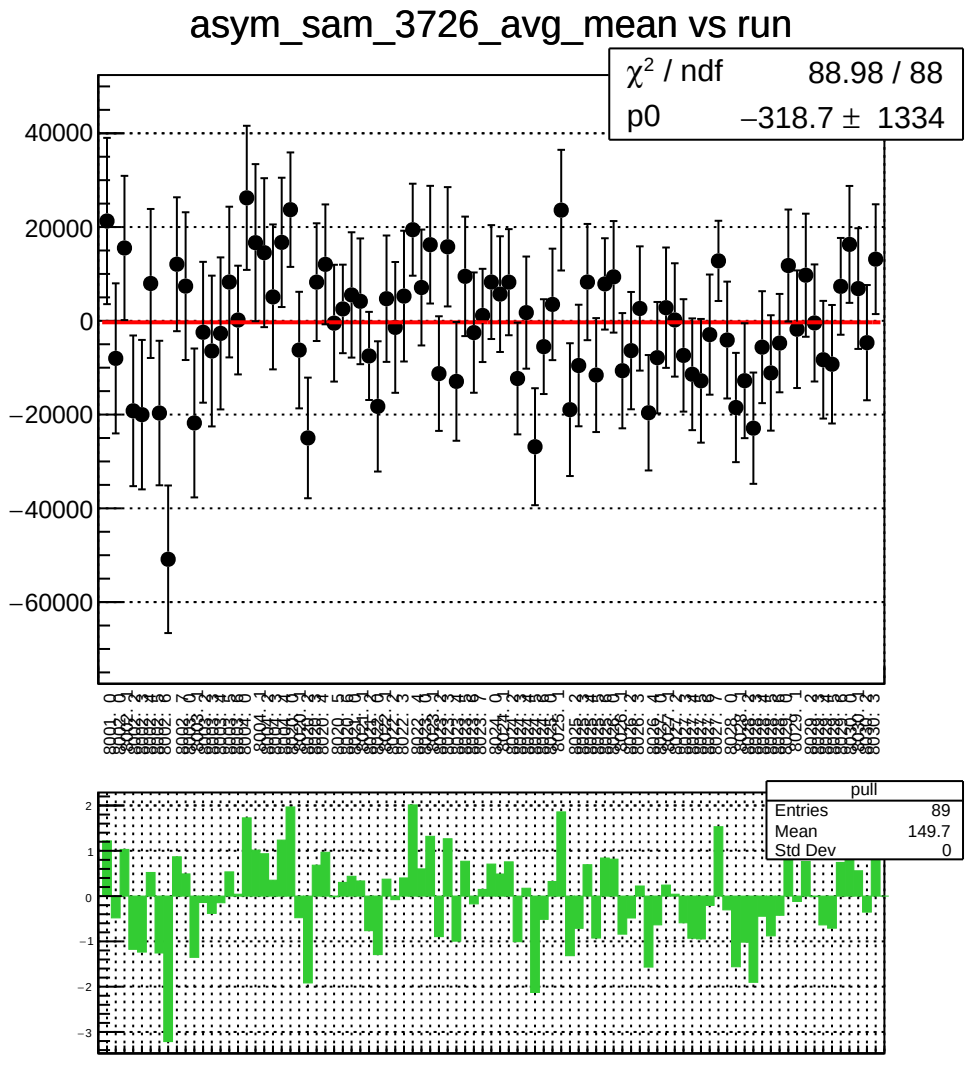

pull1D
Entries 89
Mean −0.0002081
Std Dev 0.8759

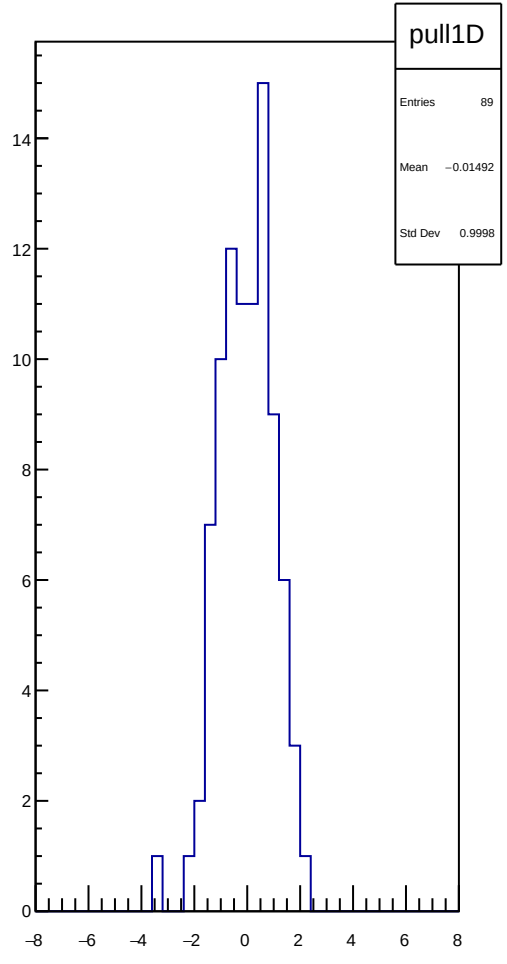

eigen_dit_asym_sam_3726_avg_rms vs run
χ² / ndf 1.644e+05 / 88
p0 139.2 ± 0.1111
400
350
300
250
200
150
100

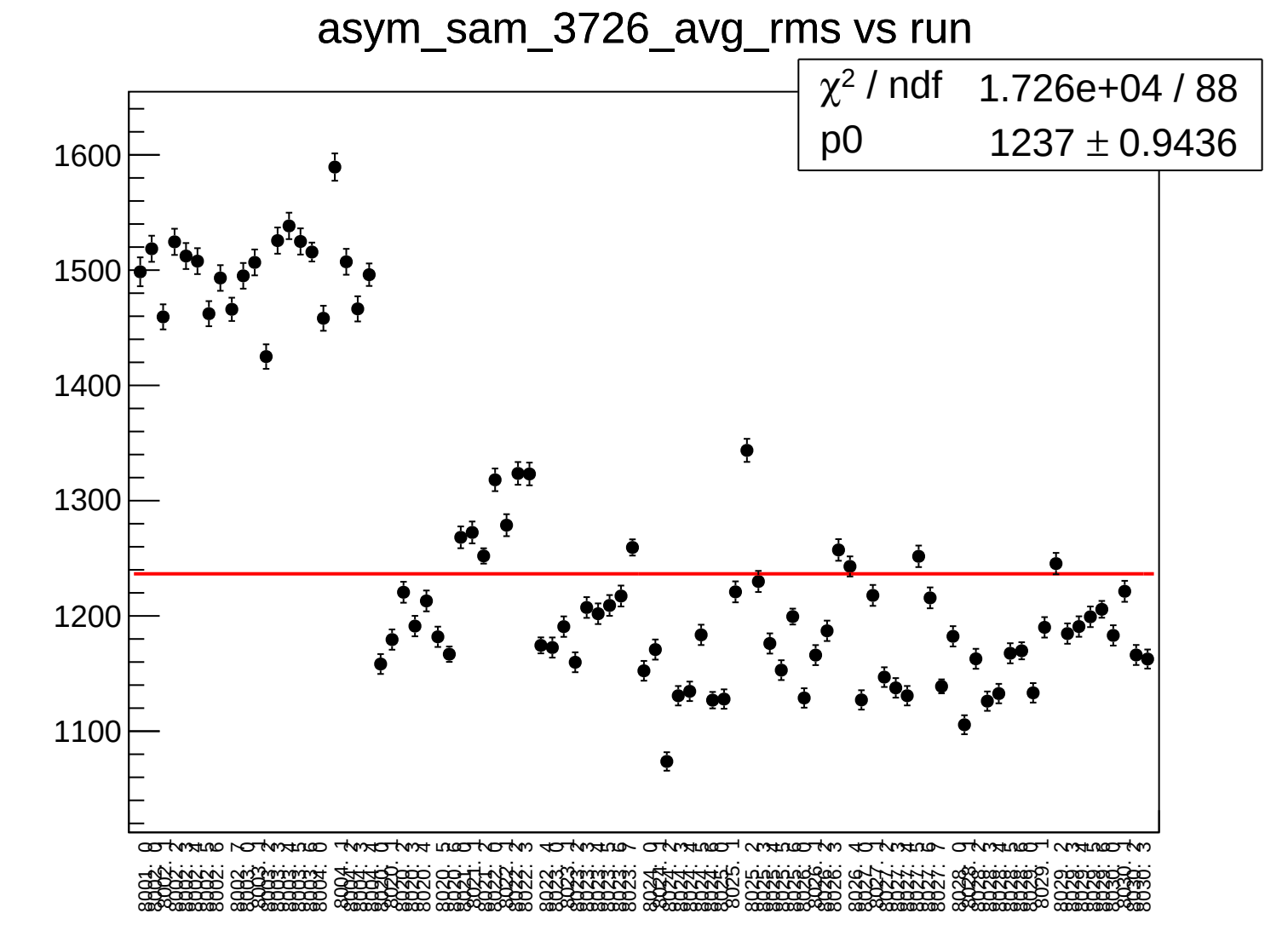

asym_sam_3726_avg_eigen_dit_correction_mean vs run
χ² / ndf 86.91 / 88
p0 408.7 ± 1343
pull
Entries 89
Mean 178.8
Std Dev 0

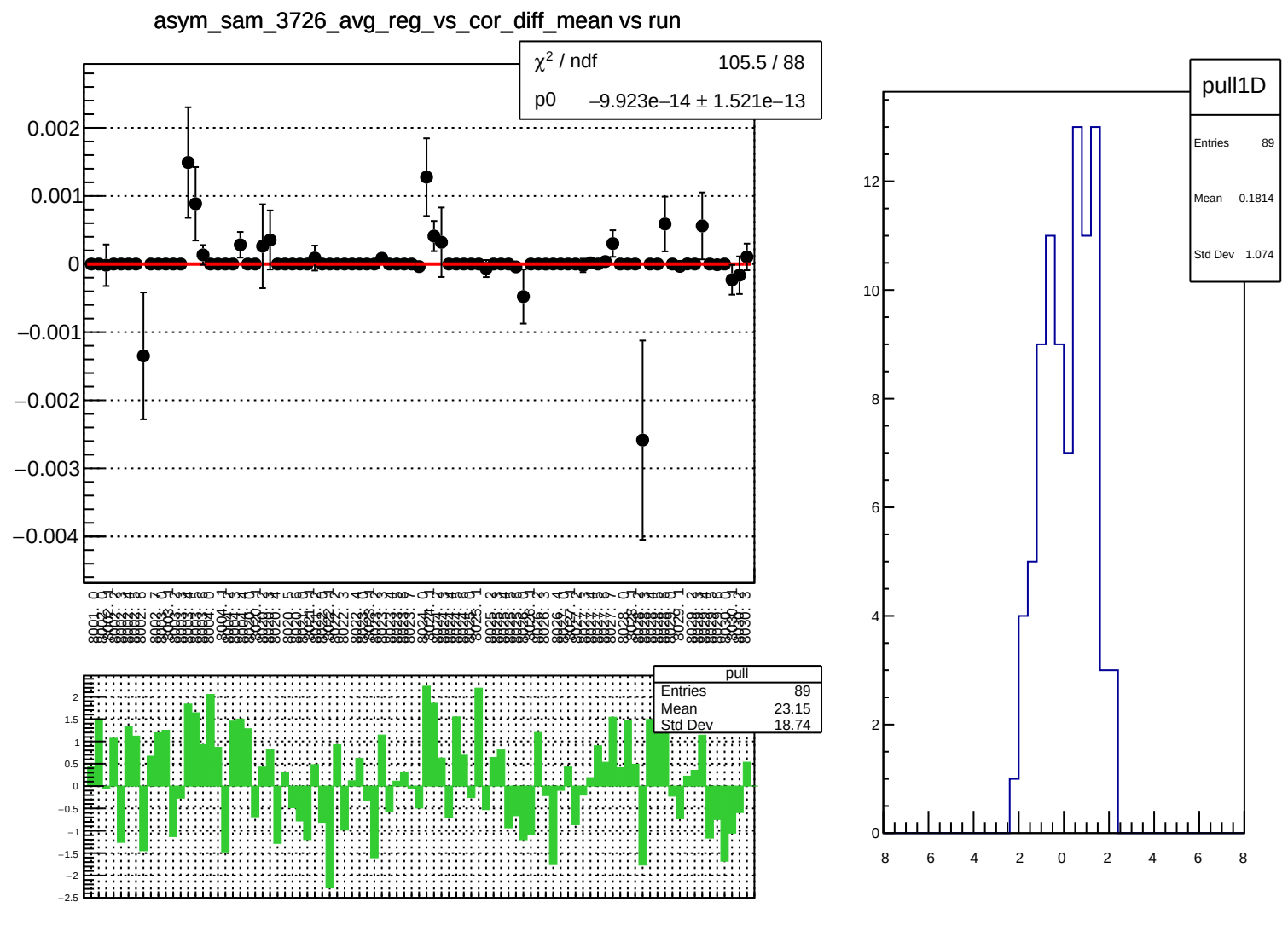

pull1D
Entries 89
Mean 0.01385
Std Dev 0.9881

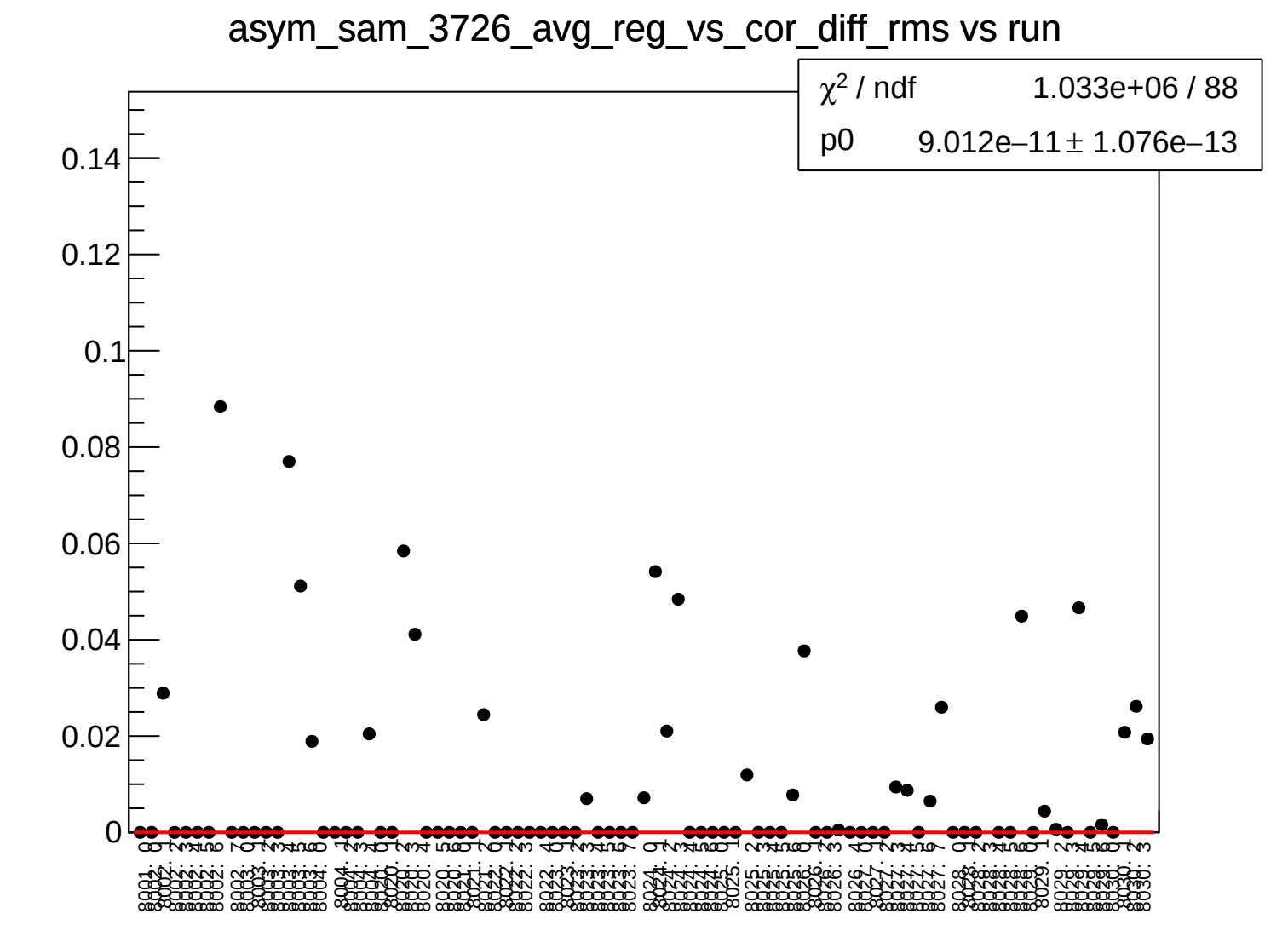

asym_sam_3726_avg_eigen_dit_correction_rms vs run
χ² / ndf 4.301e+04 / 88
p0 1235 ± 0.9497
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000

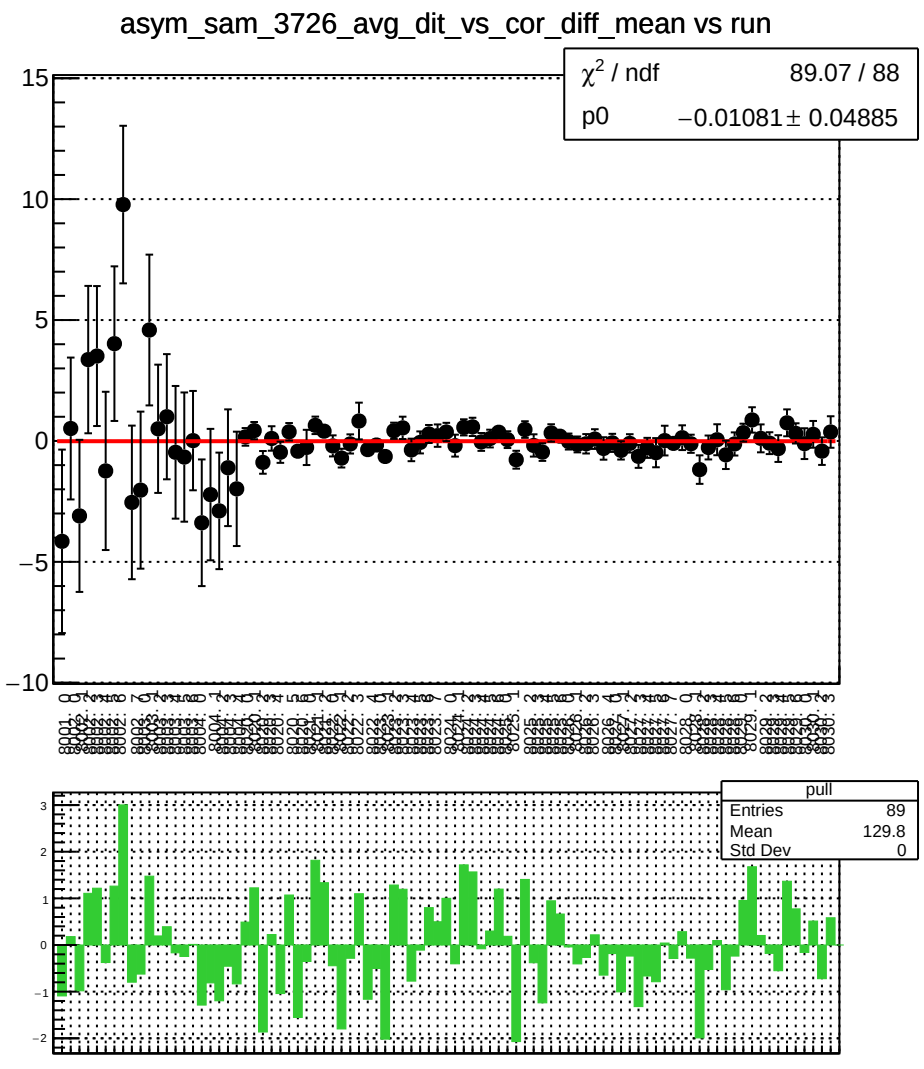

asym_sam_3726_avg_mean vs run
χ² / ndf 88.98 / 88
p0 −318.7 ± 1334
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 149.7
Std Dev 0
2
1
0
−1
−2
−3

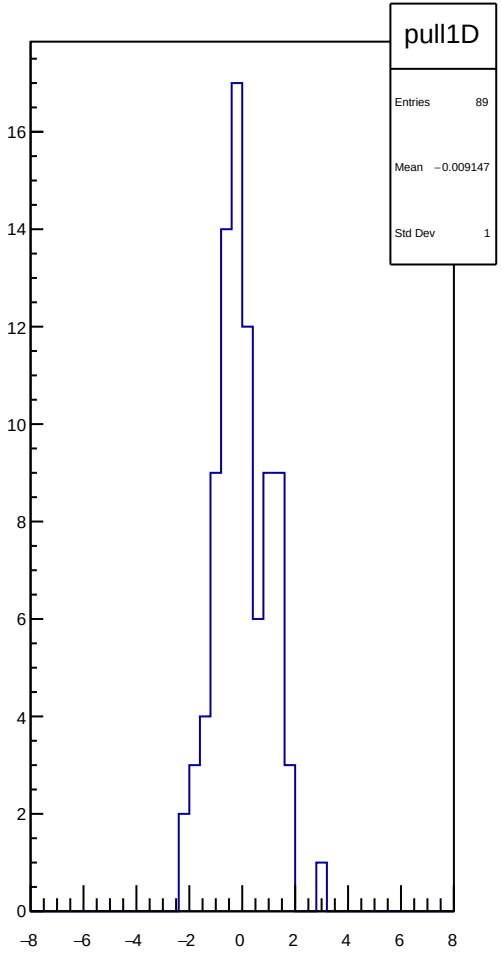

pull1D
Entries 89
Mean −0.01492
Std Dev 0.9998
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

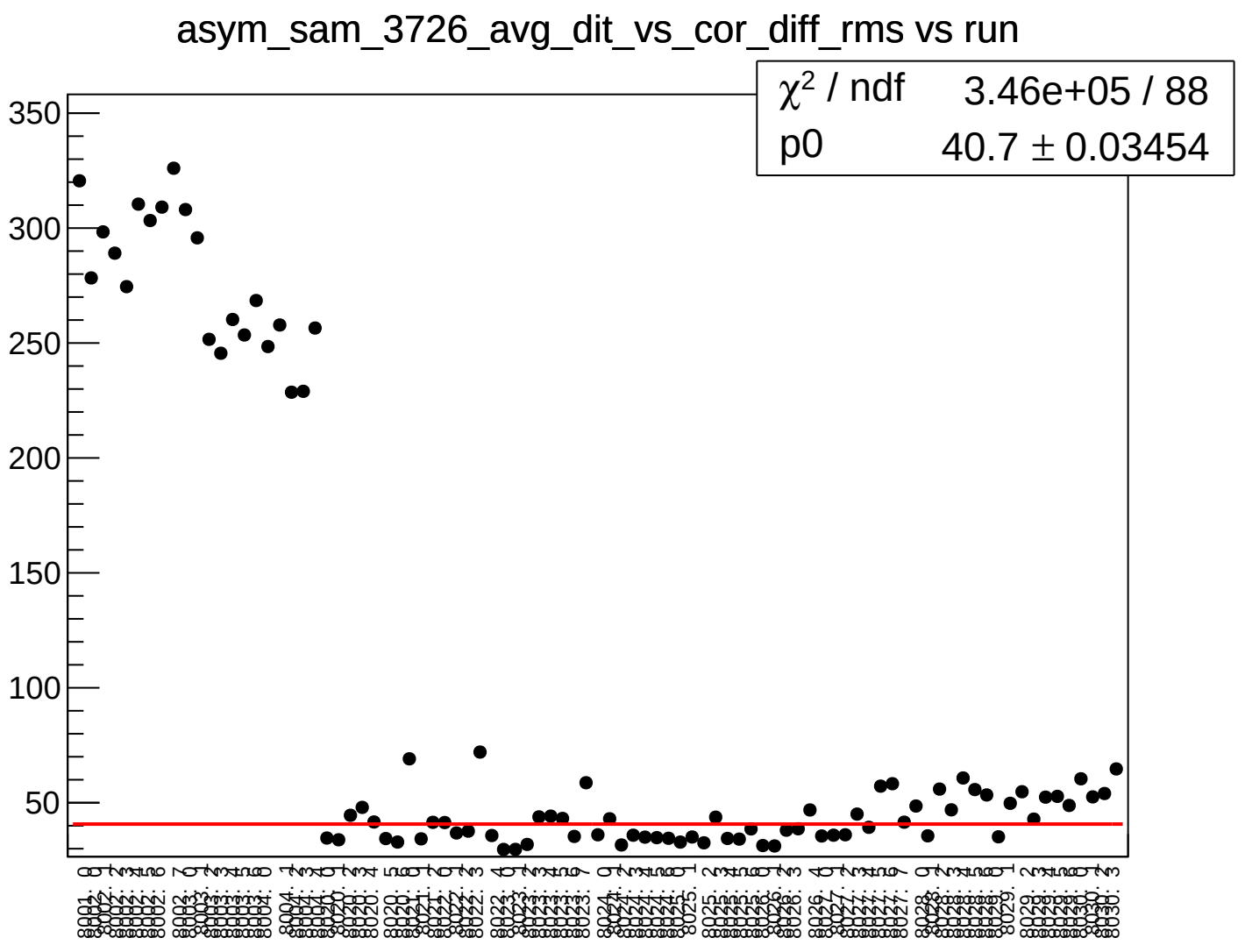

asym_sam_3726_avg_rms vs run
χ² / ndf 1.726e+04 / 88
p0 1237 ± 0.9436
1600
1500
1400
1300
1200
1100

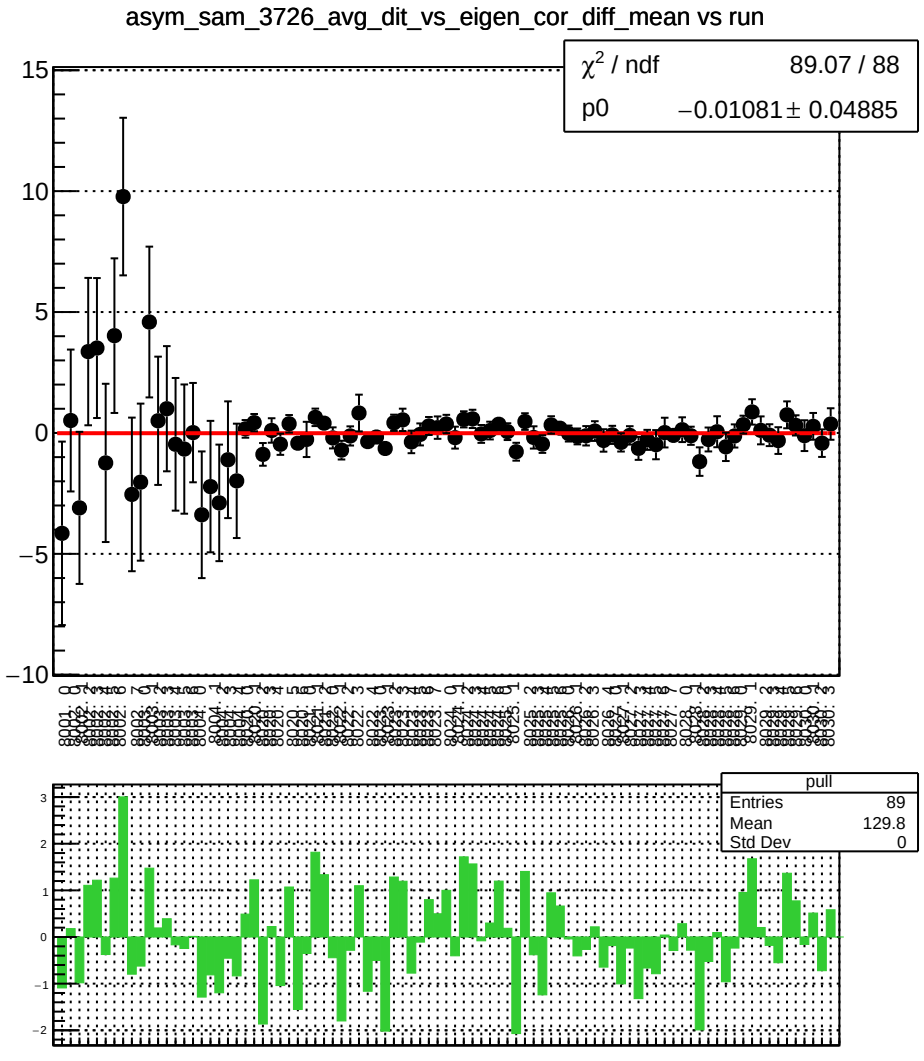

asym_sam_3726_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 105.5 / 88
p0 −9.923e−14 ± 1.521e−13
0.002
0.001
0
−0.001
−0.002
−0.003
−0.004
pull
Entries 89
Mean 23.15
Std Dev 18.74
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 89
Mean 0.1814
Std Dev 1.074
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

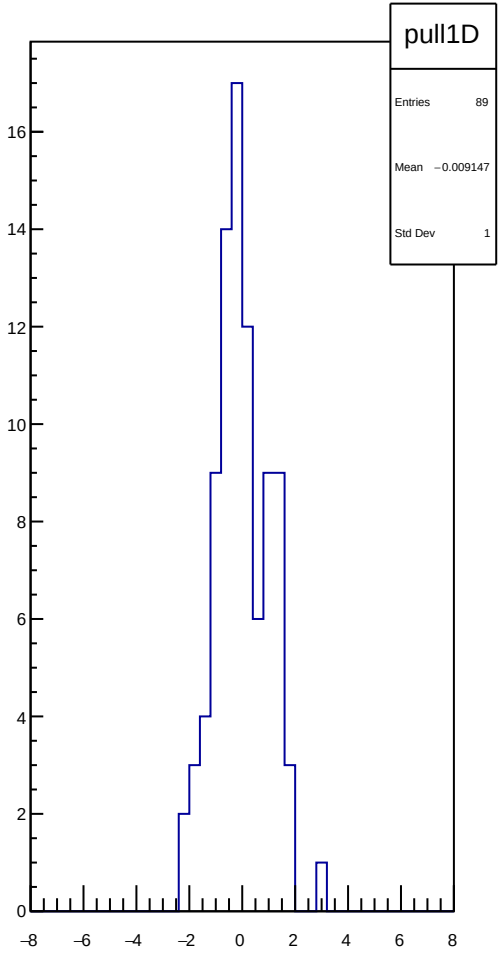

asym_sam_3726_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.033e+06 / 88
p0 9.012e−11 ± 1.076e−13
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

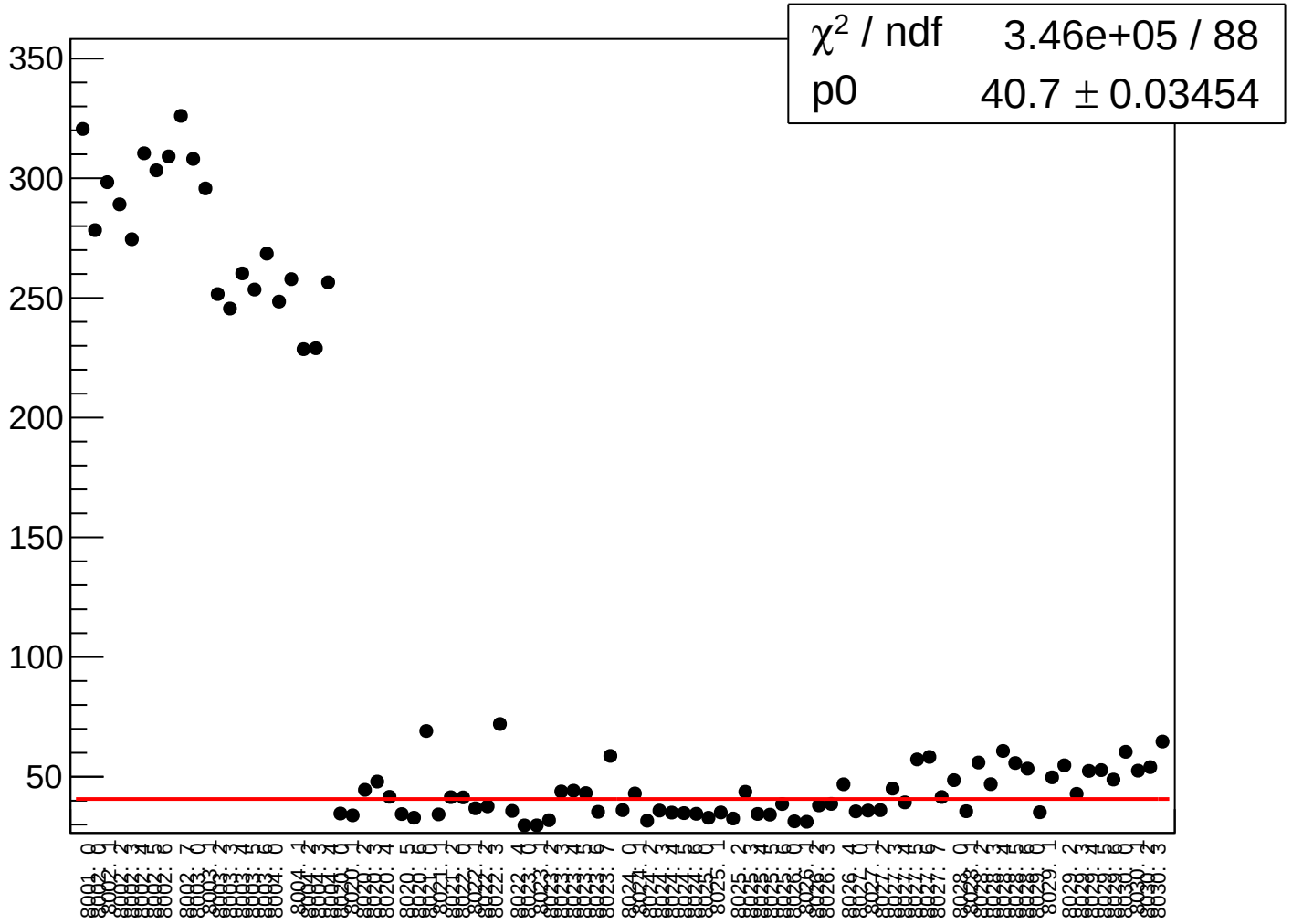

asym_sam_3726_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 89.07 / 88
p0 −0.01081 ± 0.04885
pull
Entries 89
Mean 129.8
Std Dev 0

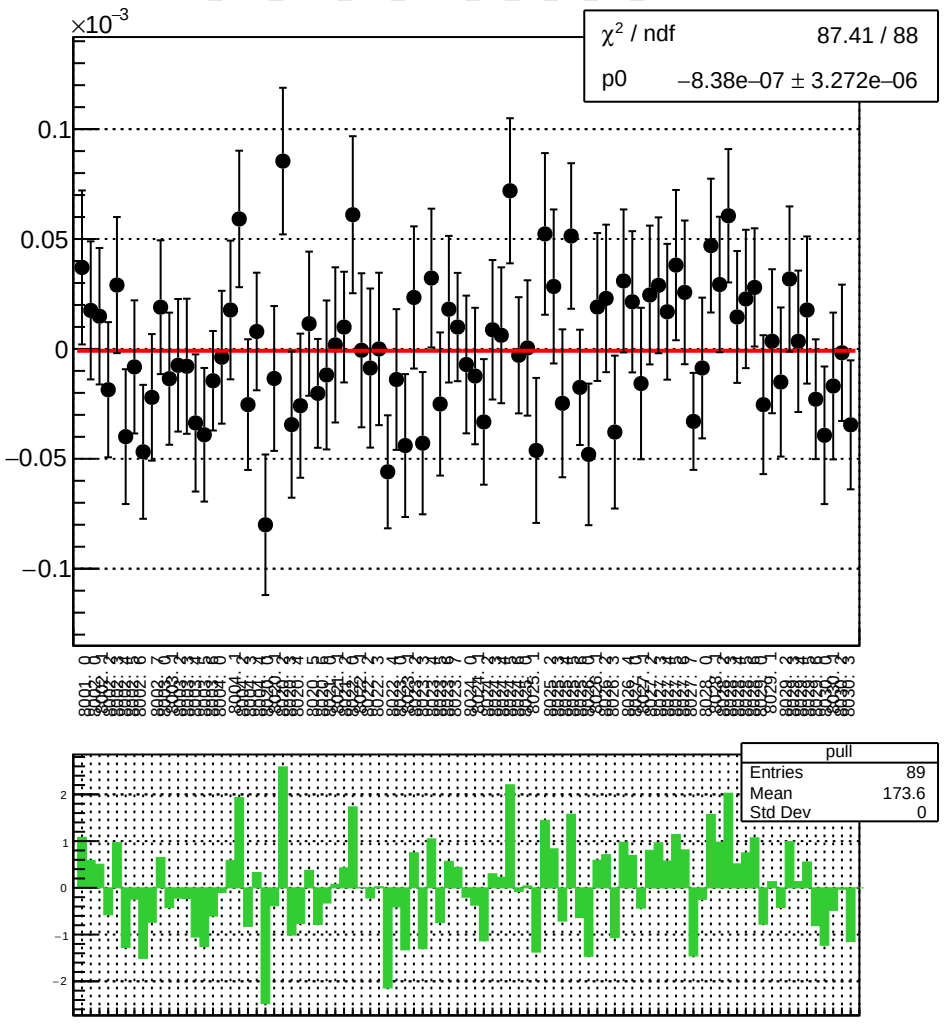

pull1D
Entries 89
Mean −0.009147
Std Dev 1

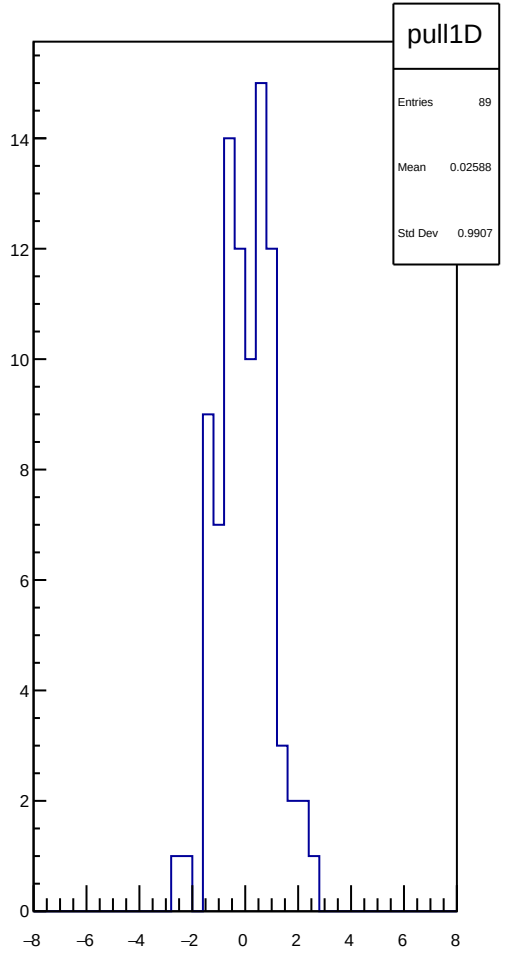

asym_sam_3726_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.46e+05 / 88
p0 40.7 ± 0.03454
350
300
250
200
150
100
50

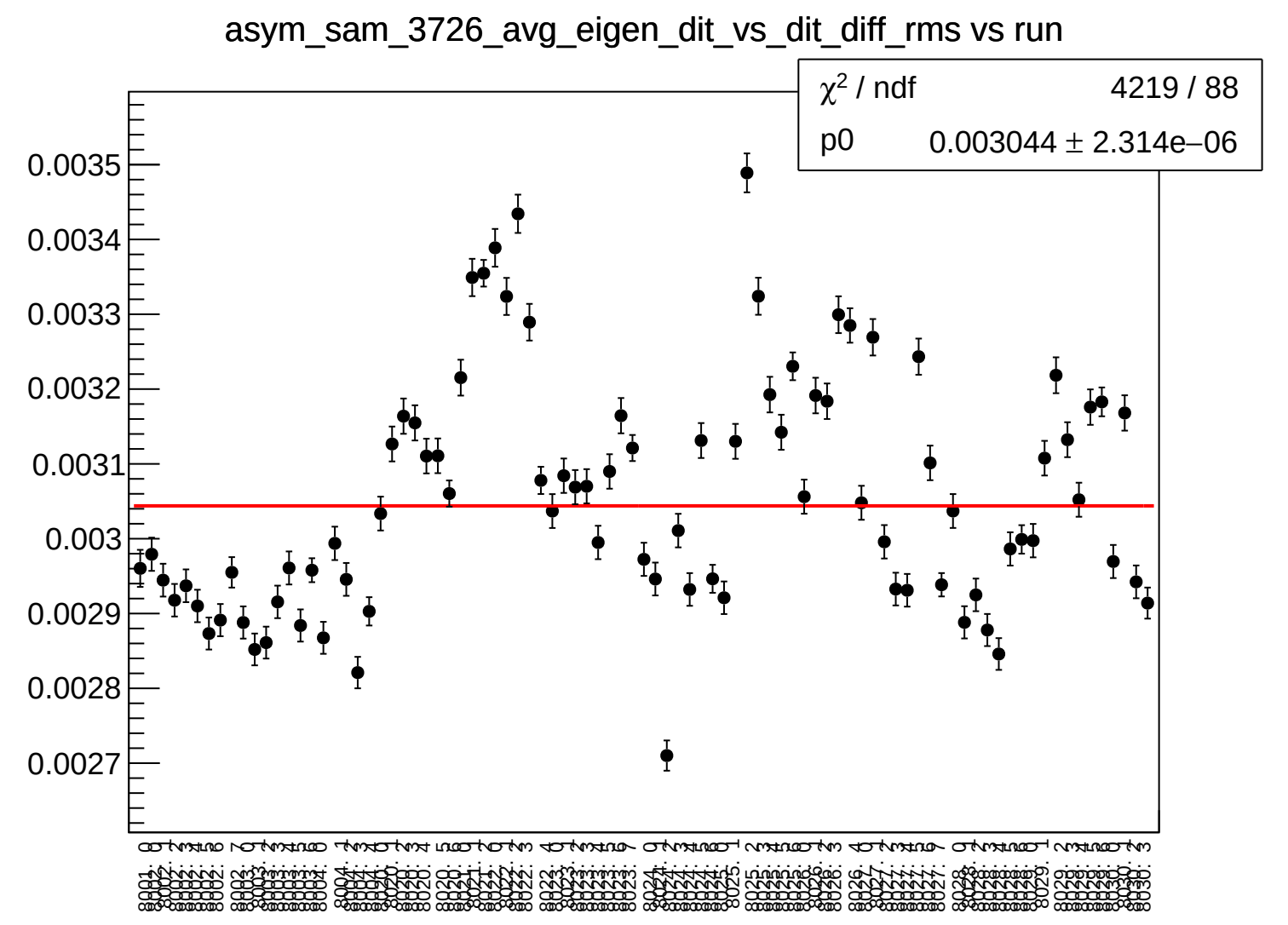

asym_sam_3726_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.07 / 88
p0 −0.01081 ± 0.04885
pull
Entries 89
Mean 129.8
Std Dev 0

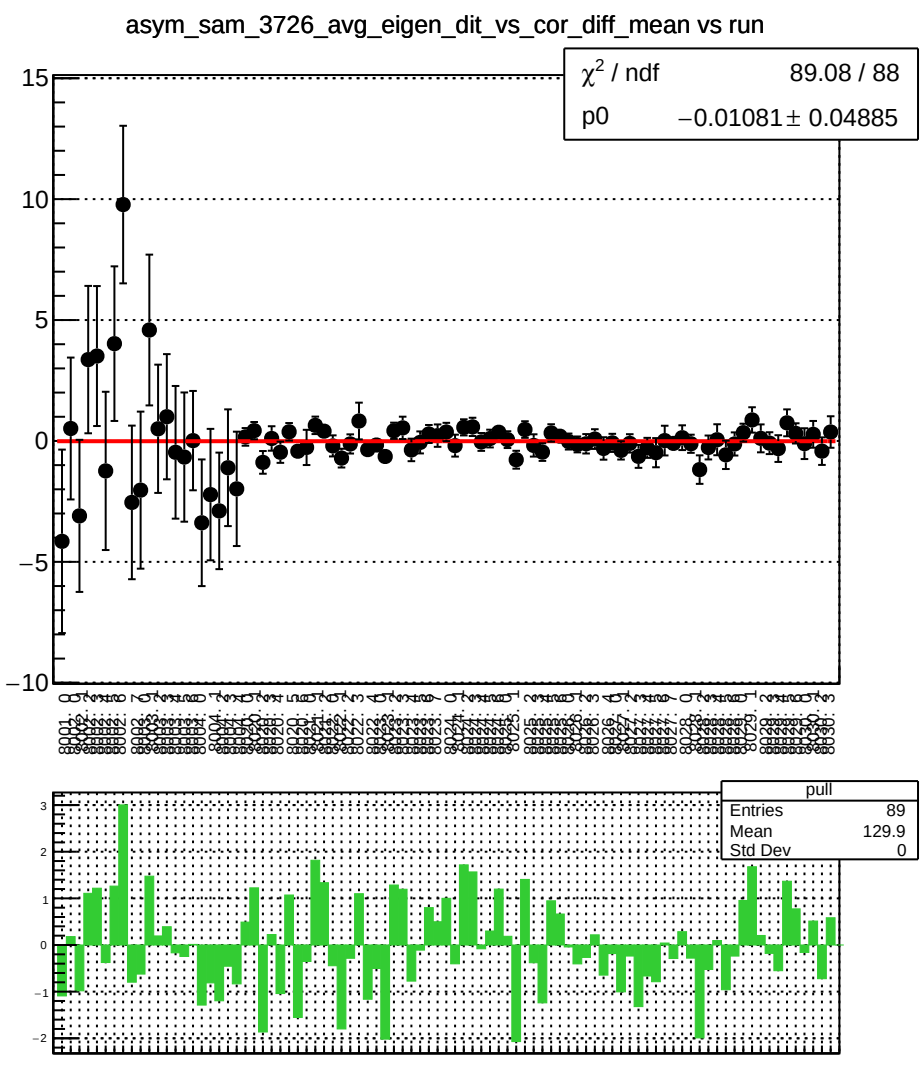

pull1D
Entries 89
Mean −0.009147
Std Dev 1

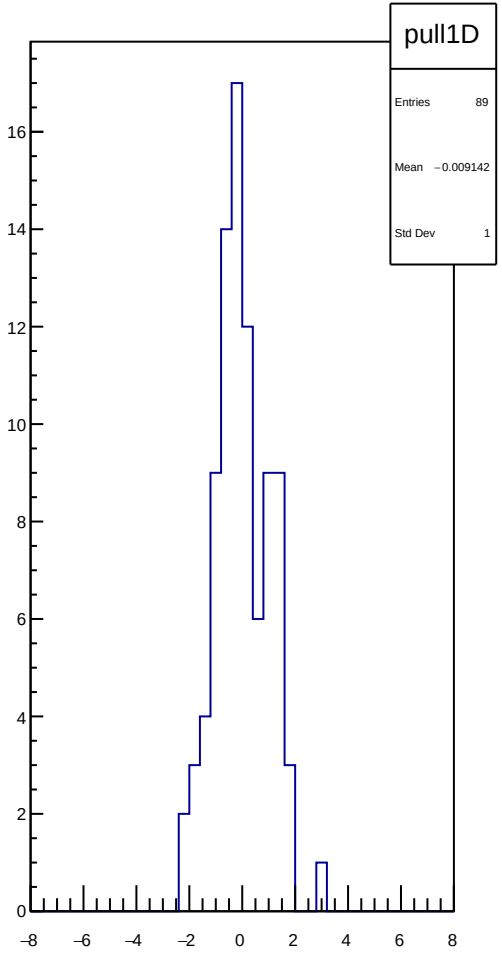

asym_sam_3726_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.46e+05 / 88
p0 40.7 ± 0.03454
350
300
250
200
150
100
50

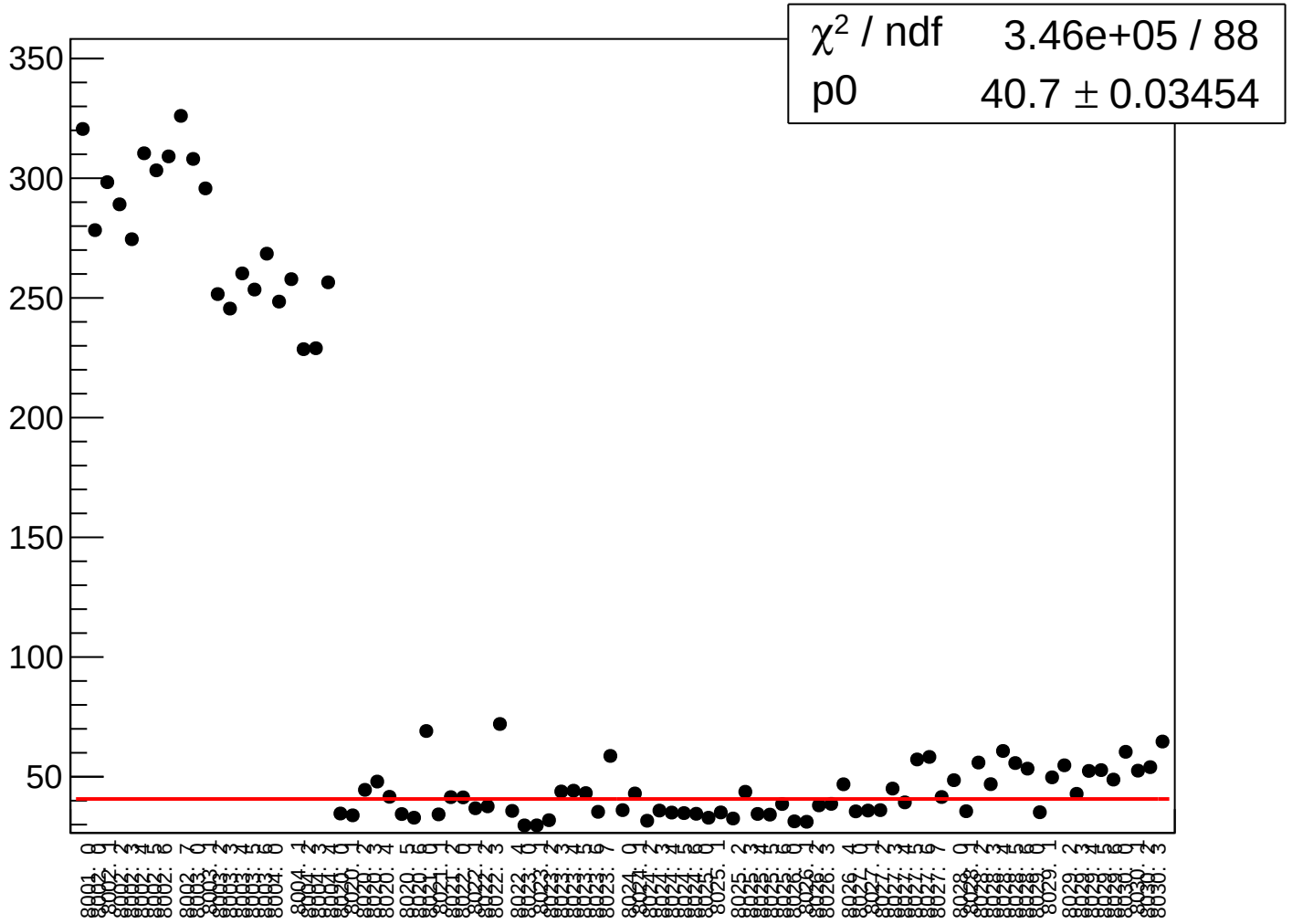

asym_sam_3726_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.41 / 88
p0 −8.38e−07 ± 3.272e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 89
Mean 173.6
Std Dev 0
2
1
0
−1
−2

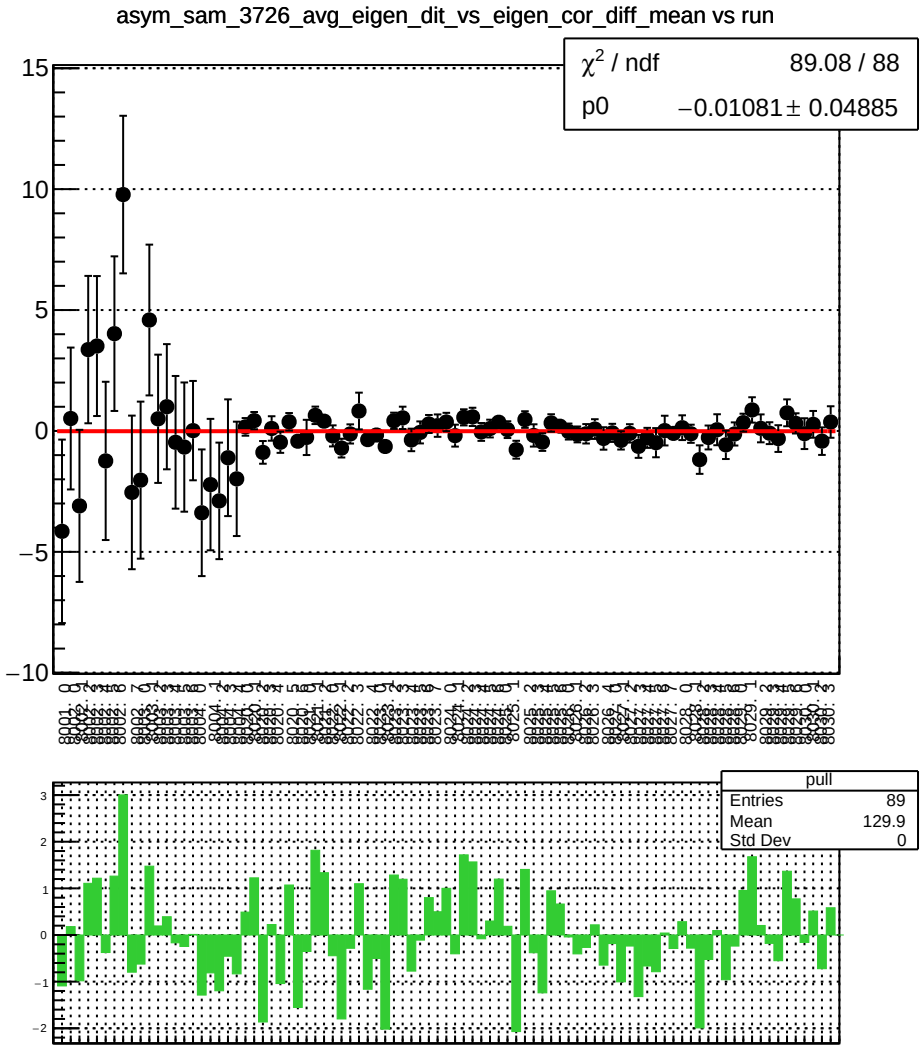

pull1D
Entries 89
Mean 0.02588
Std Dev 0.9907
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

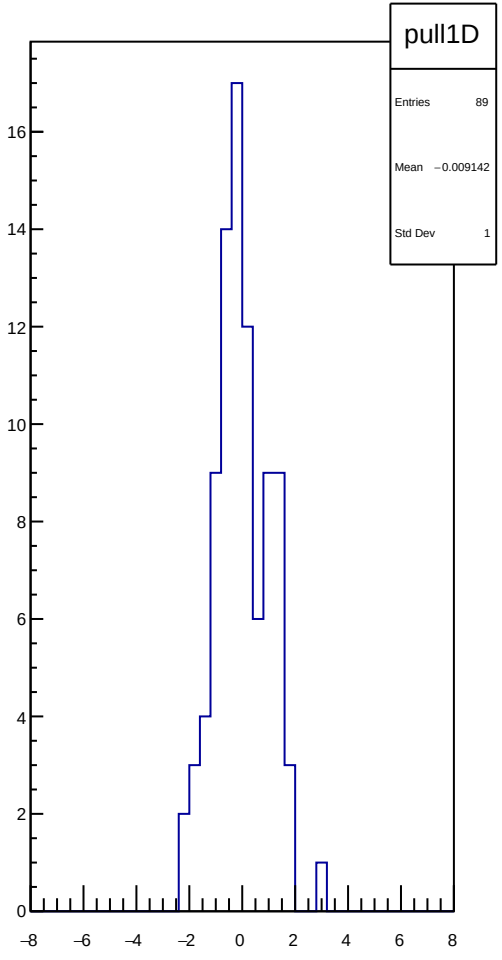

asym_sam_3726_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4219 / 88
p0 0.003044 ± 2.314e−06
0.0035
0.0034
0.0033
0.0032
0.0031
0.003
0.0029
0.0028
0.0027

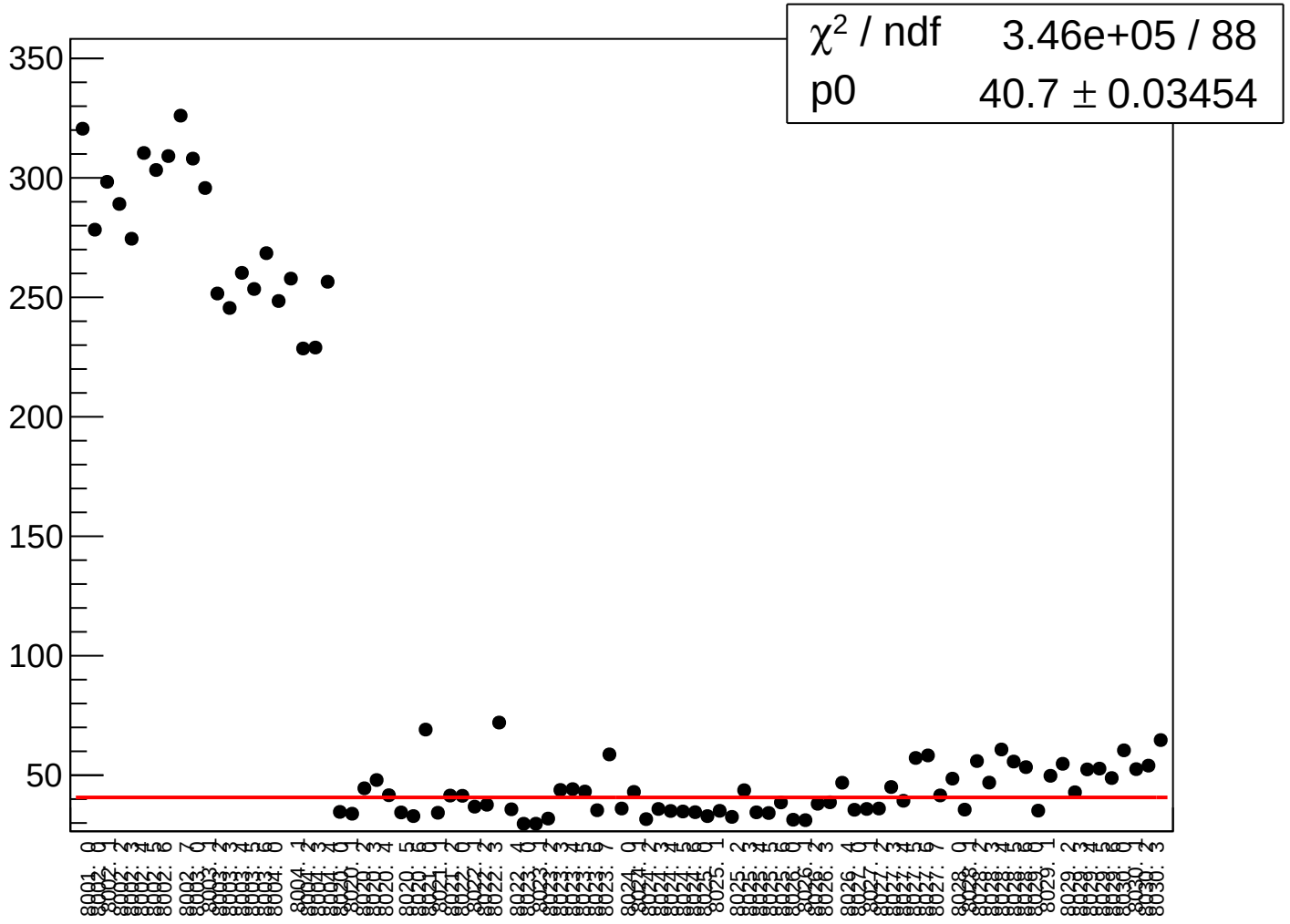

asym_sam_3726_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.08 / 88
p0 −0.01081 ± 0.04885
pull
Entries 89
Mean 129.9
Std Dev 0

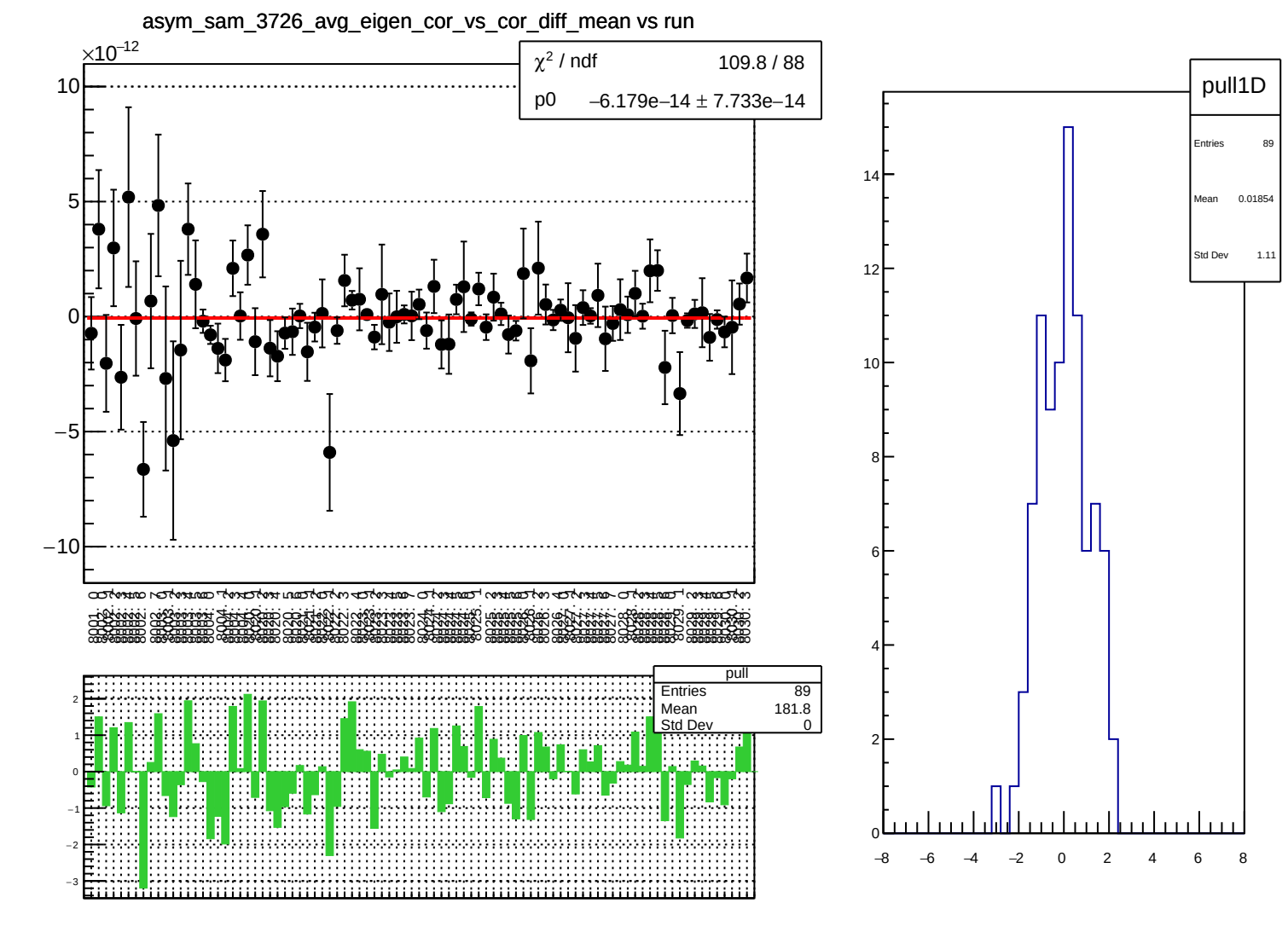

pull1D
Entries 89
Mean −0.009142
Std Dev 1

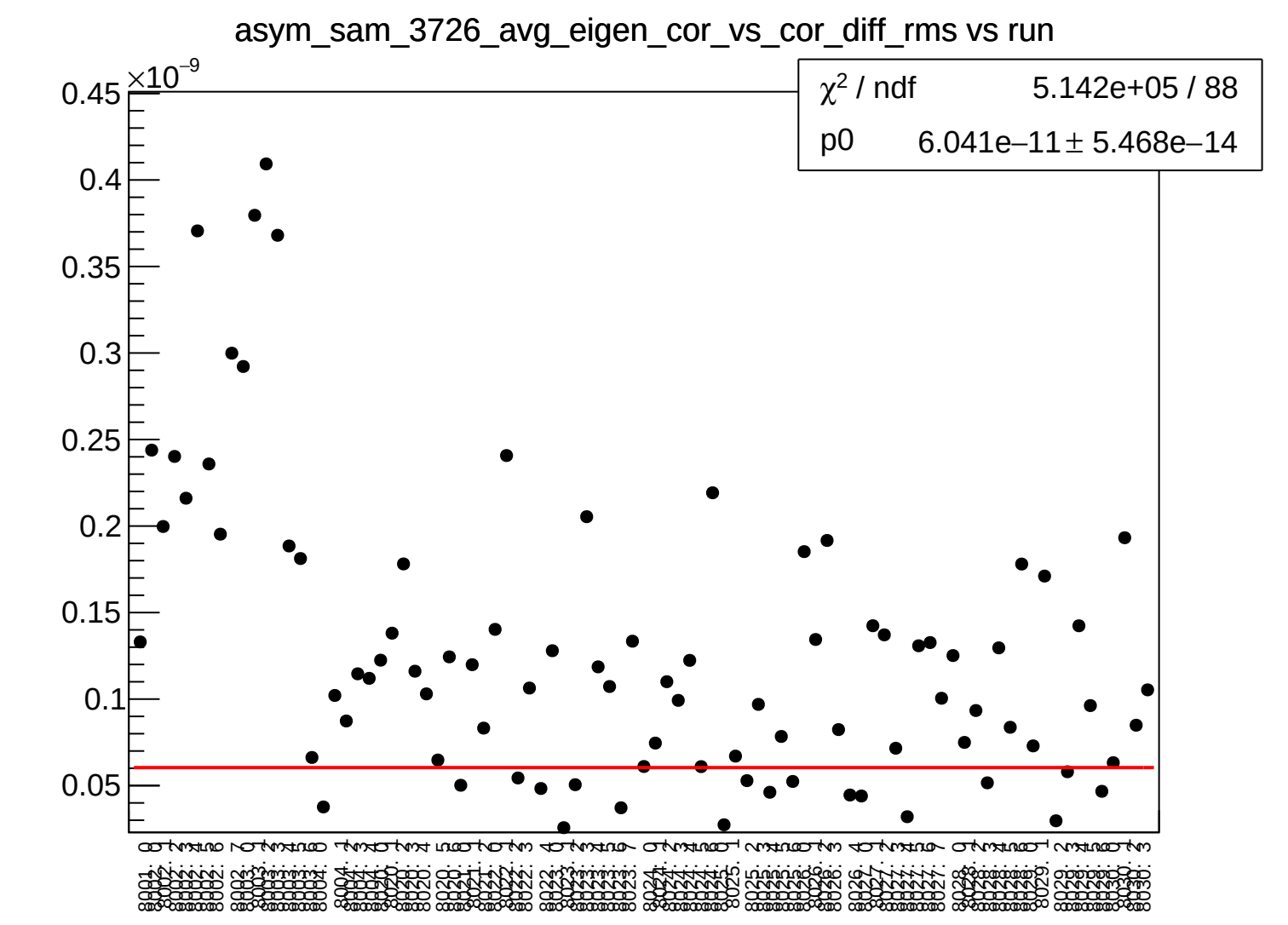

asym_sam_3726_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.46e+05 / 88
p0 40.7 ± 0.03454
350
300
250
200
150
100
50

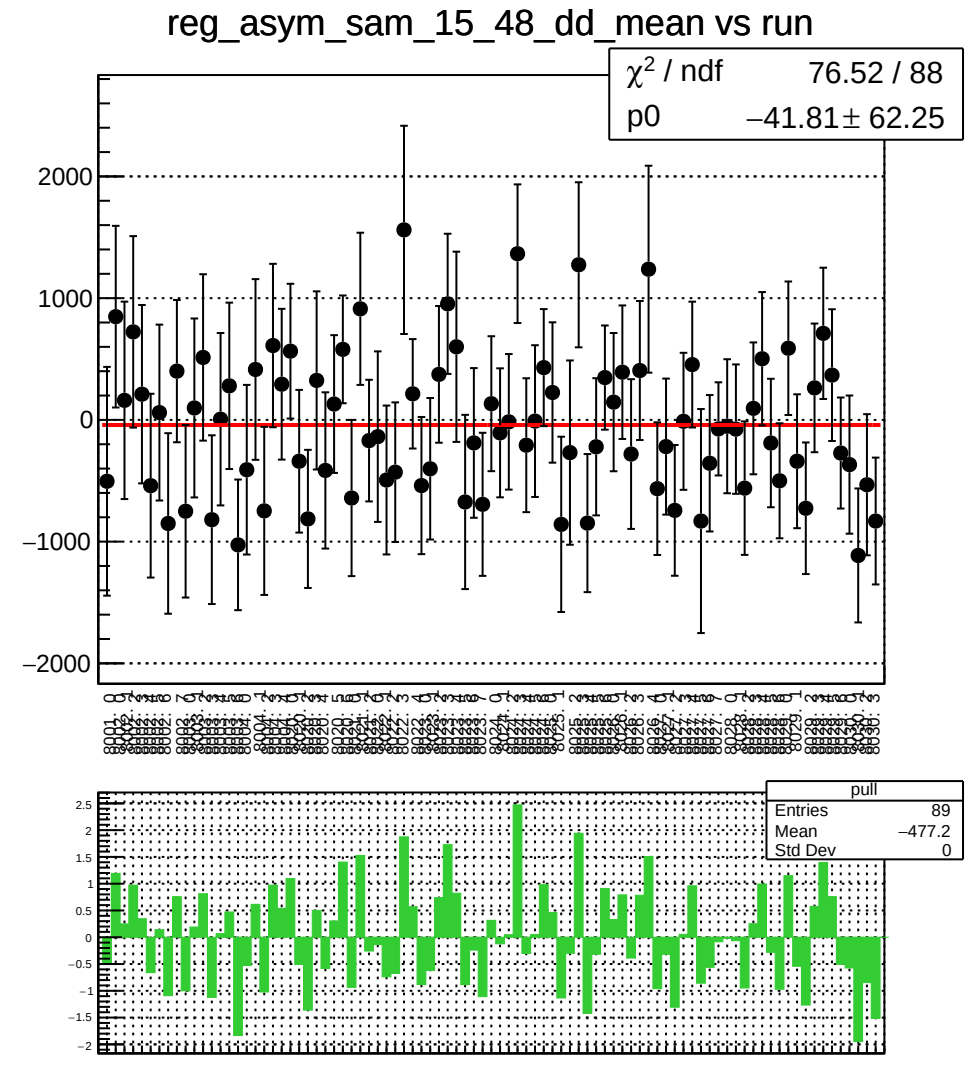

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.08 / 88
p0 −0.01081 ± 0.04885
pull
Entries 89
Mean 129.9
Std Dev 0

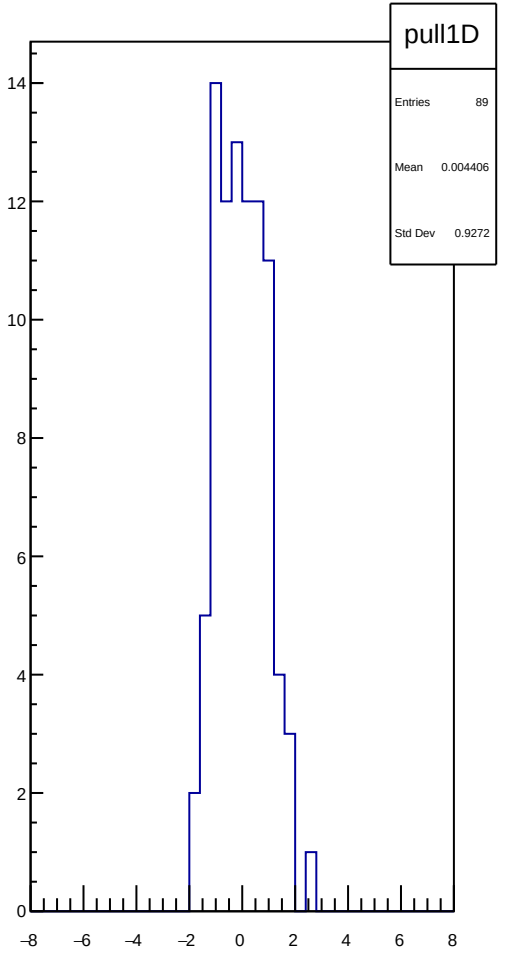

pull1D
Entries 89
Mean −0.009142
Std Dev 1

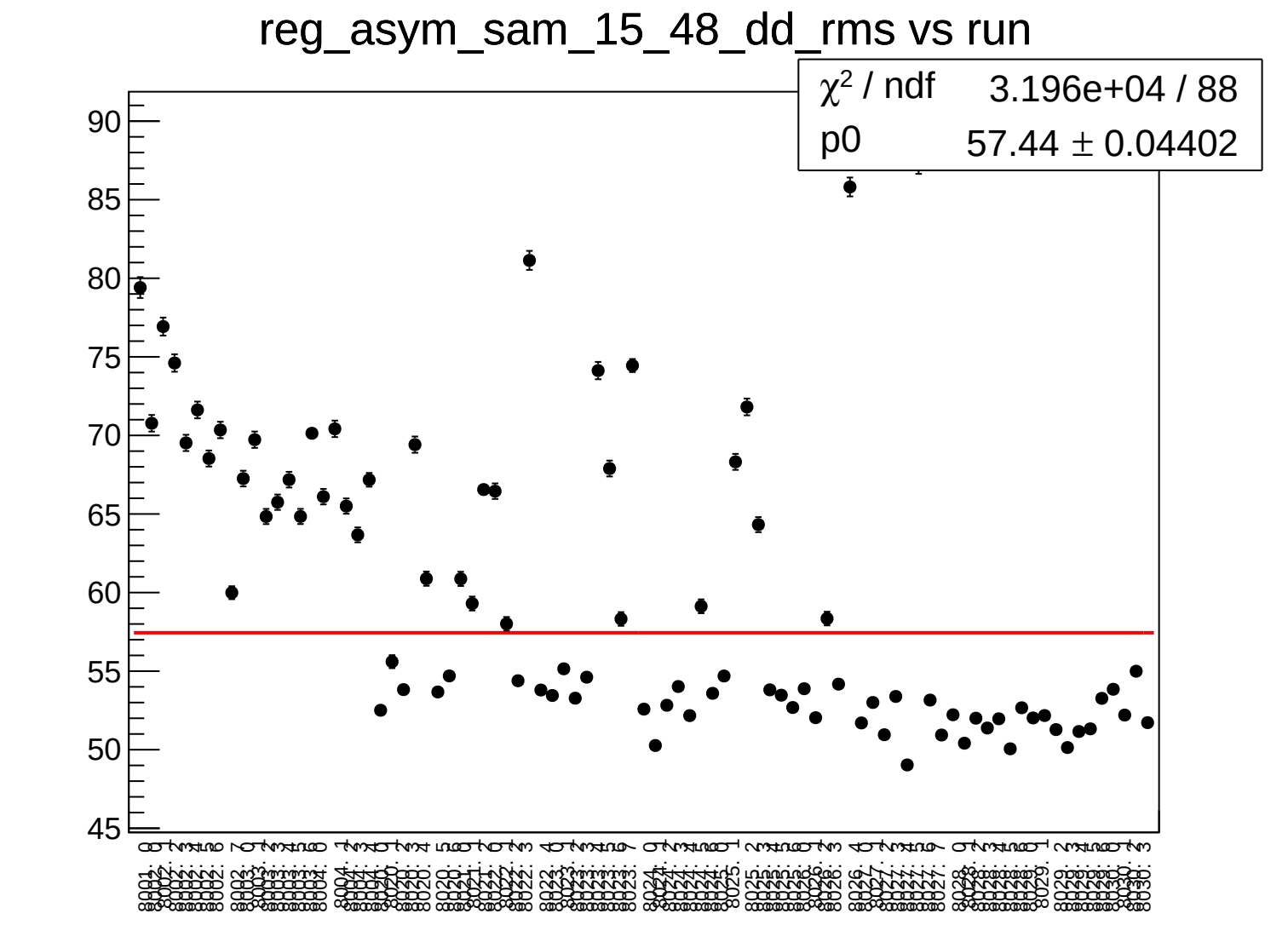

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.46e+05 / 88
p0 40.7 ± 0.03454
350
300
250
200
150
100
50

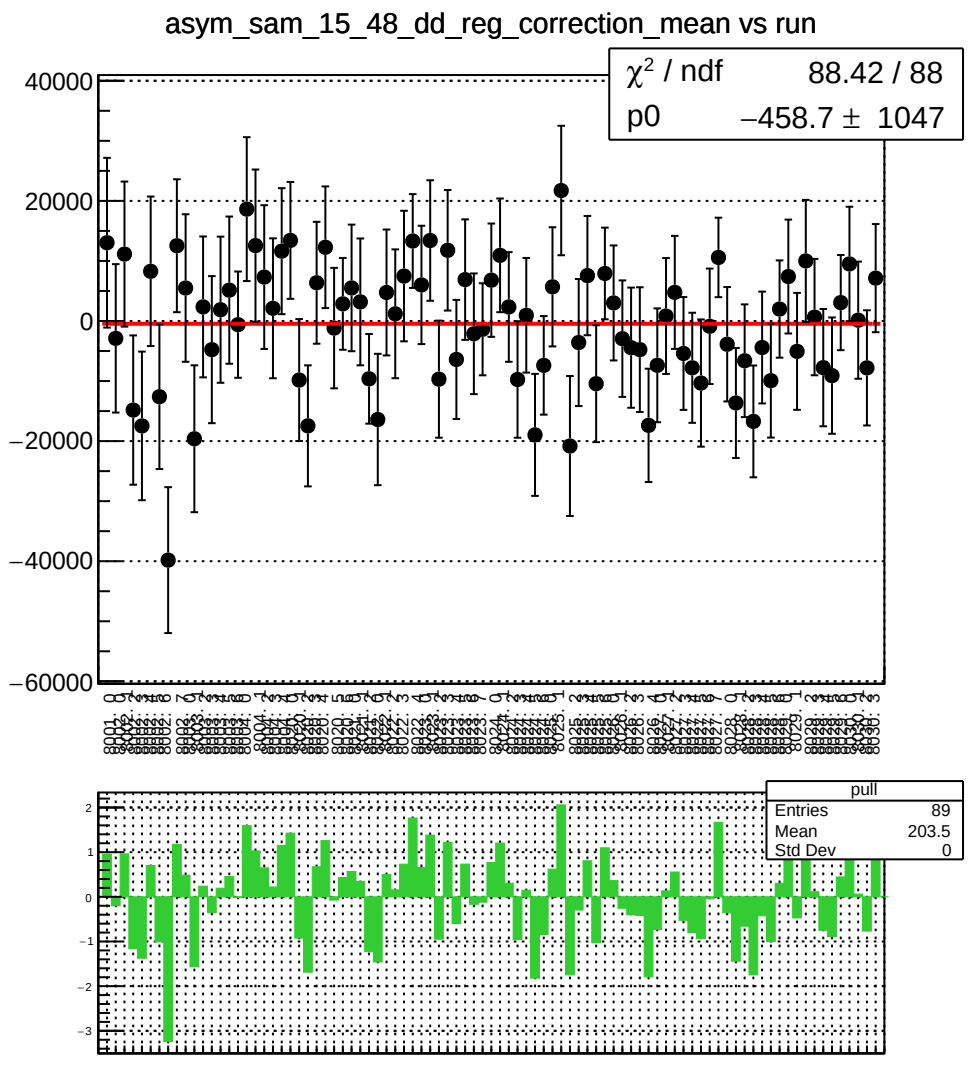

asym_sam_3726_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 109.8 / 88
p0 −6.179e−14 ± 7.733e−14
pull
Entries 89
Mean 181.8
Std Dev 0
pull1D
Entries 89
Mean 0.01854
Std Dev 1.11

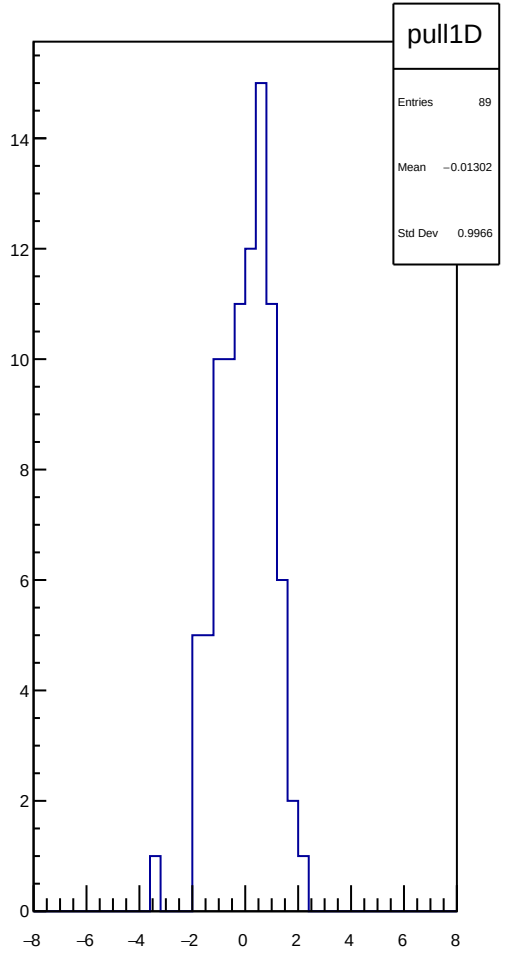

asym_sam_3726_avg_eigen_cor_vs_cor_diff_rms vs run
χ^2 / ndf 5.142e+05 / 88
p0 6.041e−11 ± 5.468e−14
$\times 10^{-9}$
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

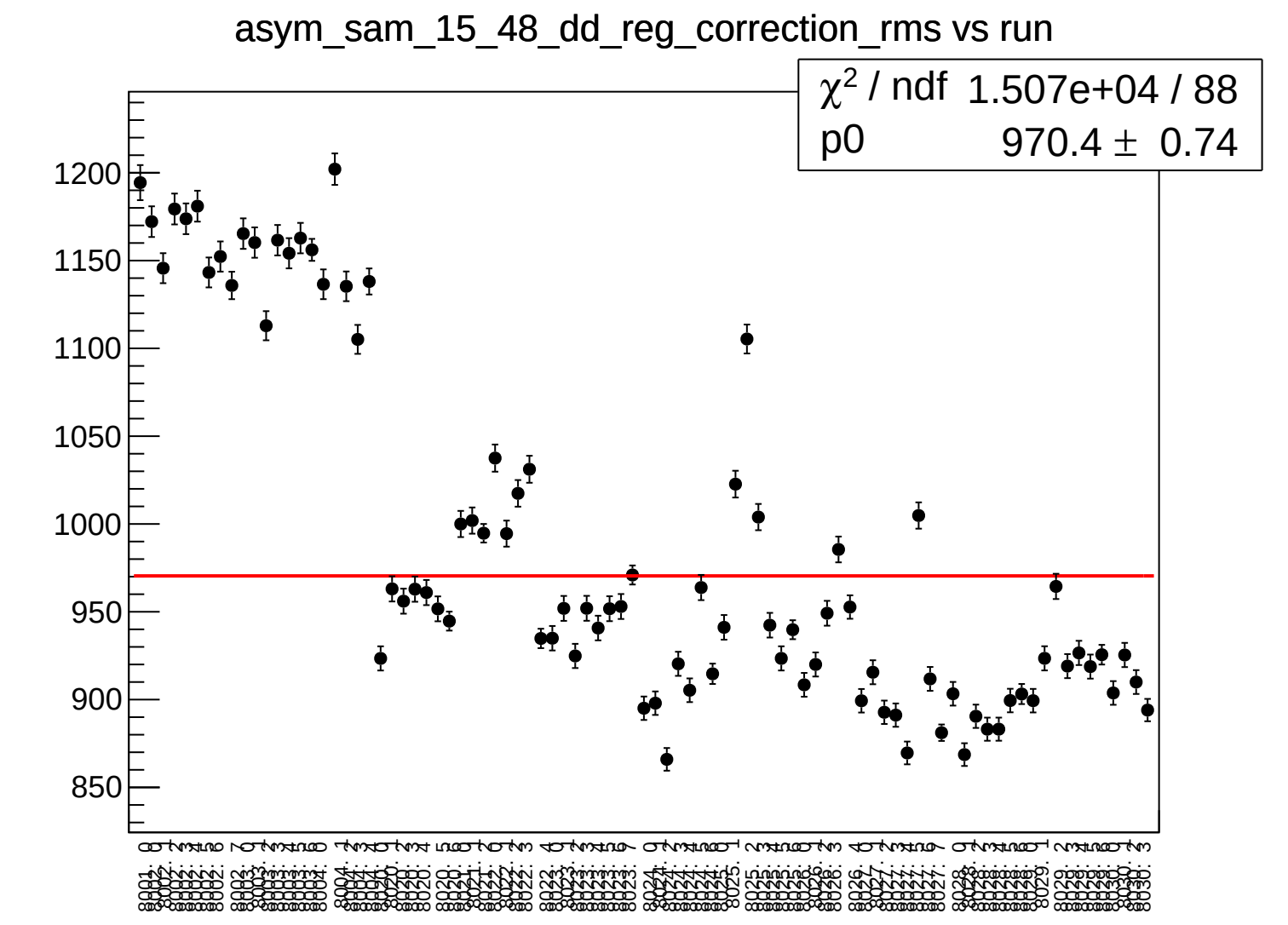

reg_asym_sam_15_48_dd_mean vs run
χ^2 / ndf 76.52 / 88
p0 −41.81 ± 62.25
2000
1000
0
−1000
−2000
pull
Entries 89
Mean −477.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

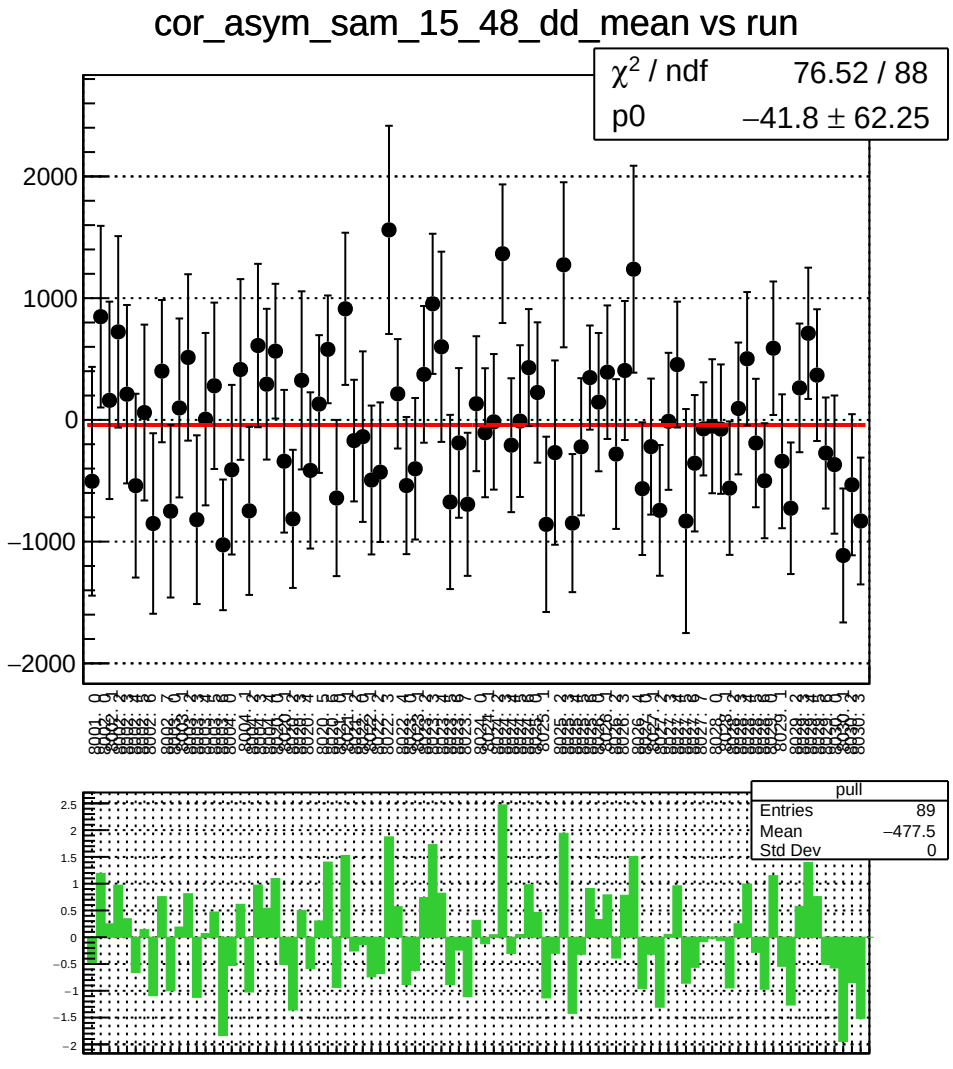

pull1D
Entries 89
Mean 0.004406
Std Dev 0.9272
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

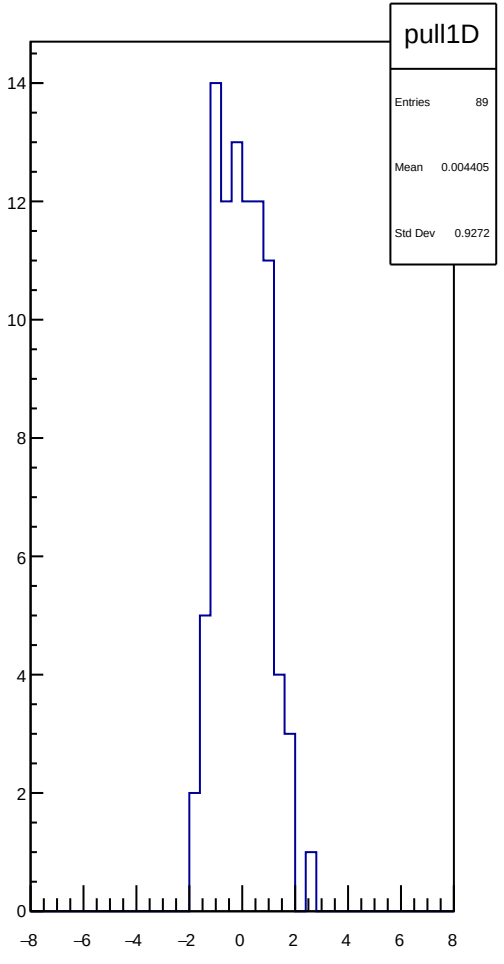

reg_asym_sam_15_48_dd_rms vs run
χ² / ndf 3.196e+04 / 88
p0 57.44 ± 0.04402
90
85
80
75
70
65
60
55
50
45

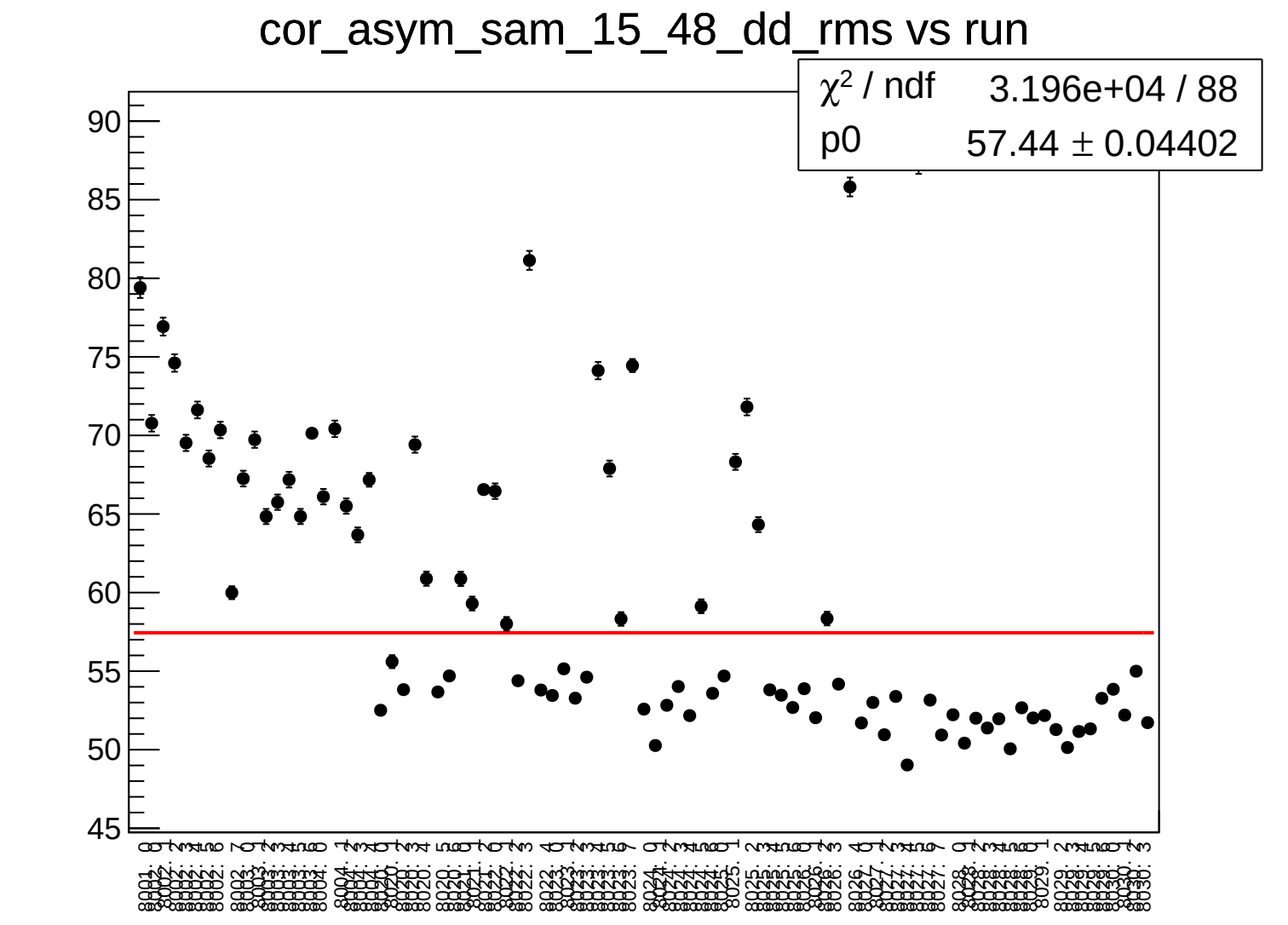

asym_sam_15_48_dd_reg_correction_mean vs run
χ² / ndf 88.42 / 88
p0 −458.7 ± 1047
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 203.5
Std Dev 0
2
1
0
−1
−2
−3

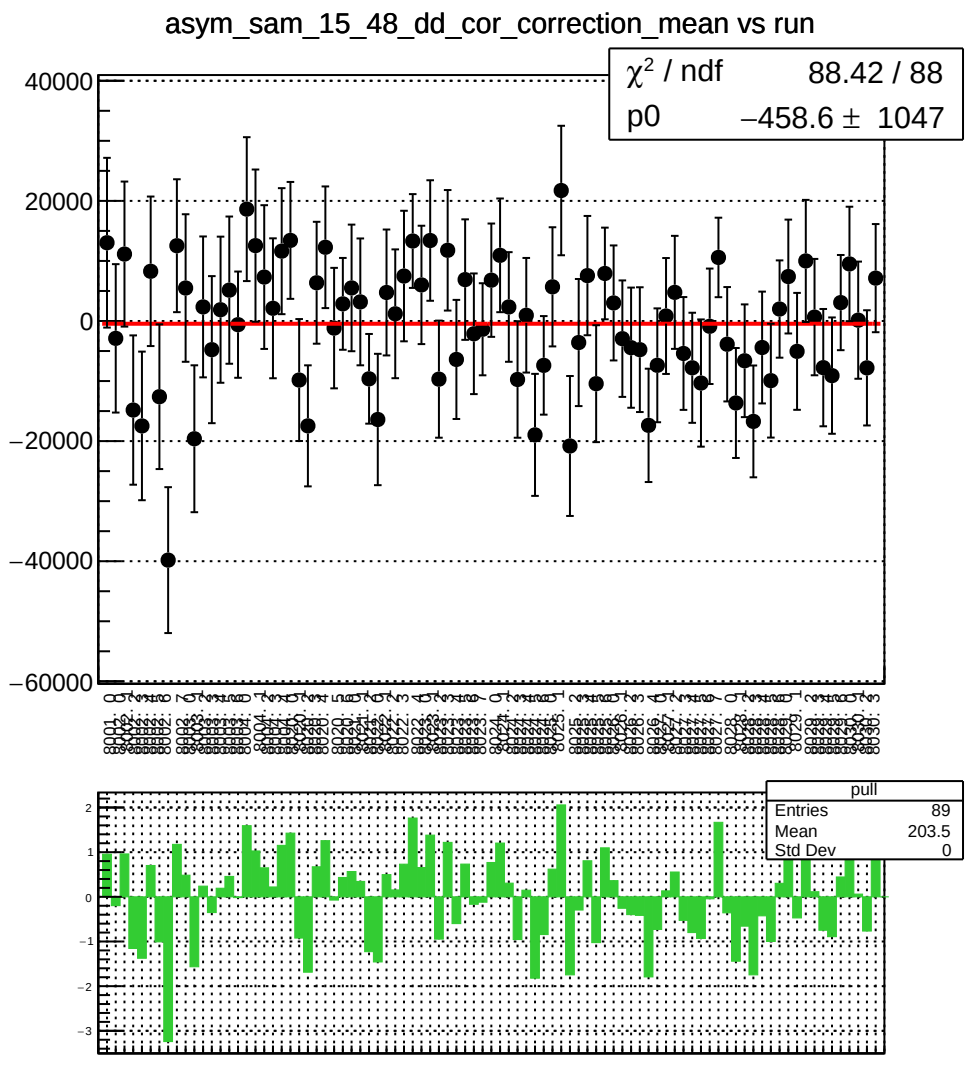

pull1D
Entries 89
Mean −0.01302
Std Dev 0.9966
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

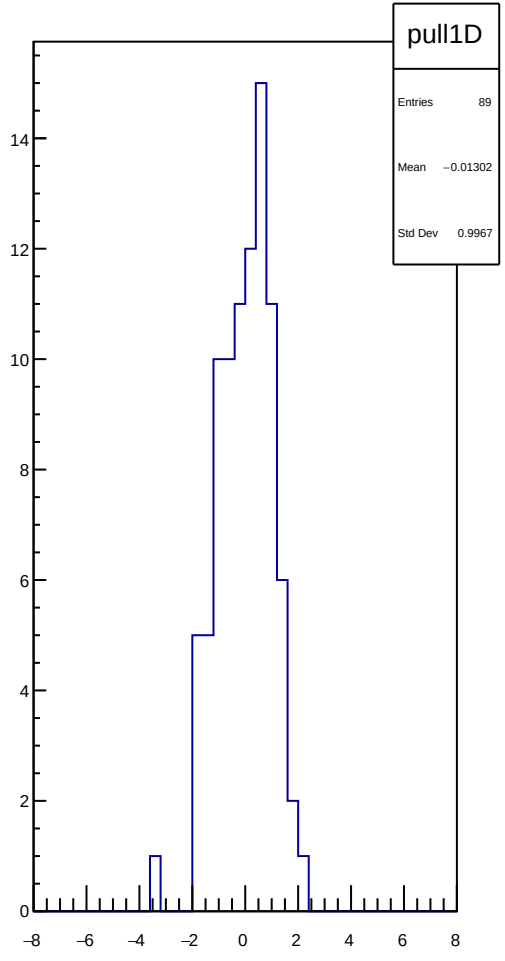

asym_sam_15_48_dd_reg_correction_rms vs run
χ² / ndf 1.507e+04 / 88
p0 970.4 ± 0.74
1200
1150
1100
1050
1000
950
900
850

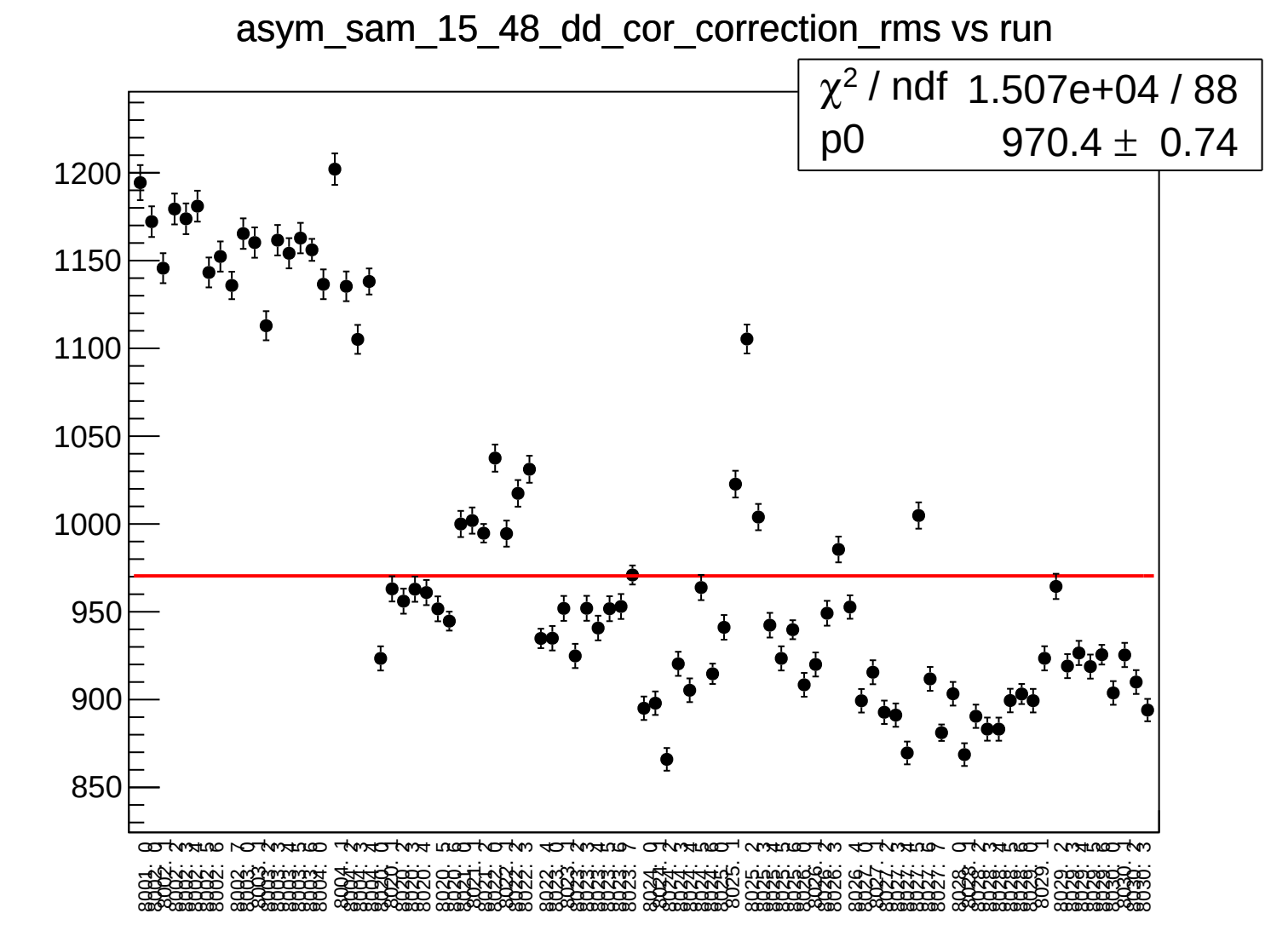

cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 76.52 / 88
p0 −41.8 ± 62.25
2000
1000
0
−1000
−2000
pull
Entries 89
Mean −477.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

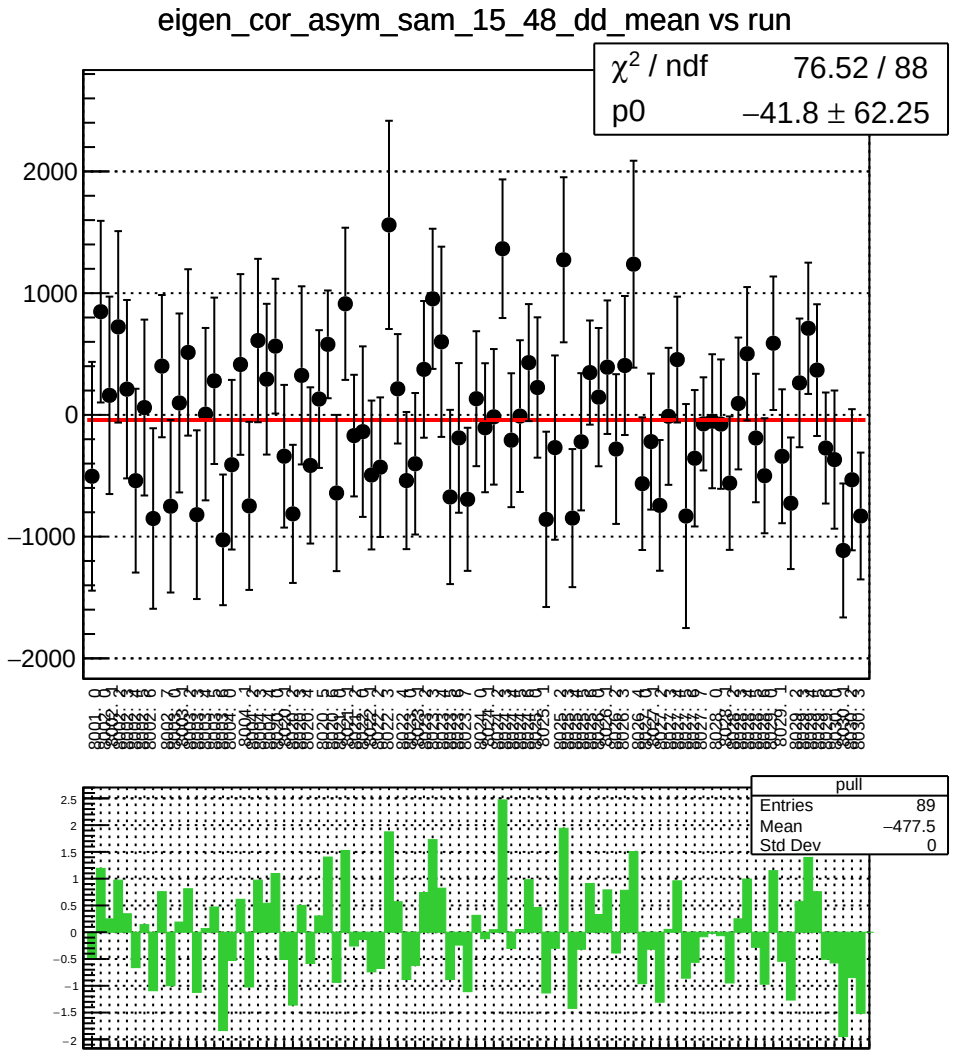

pull1D
Entries 89
Mean 0.004405
Std Dev 0.9272
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

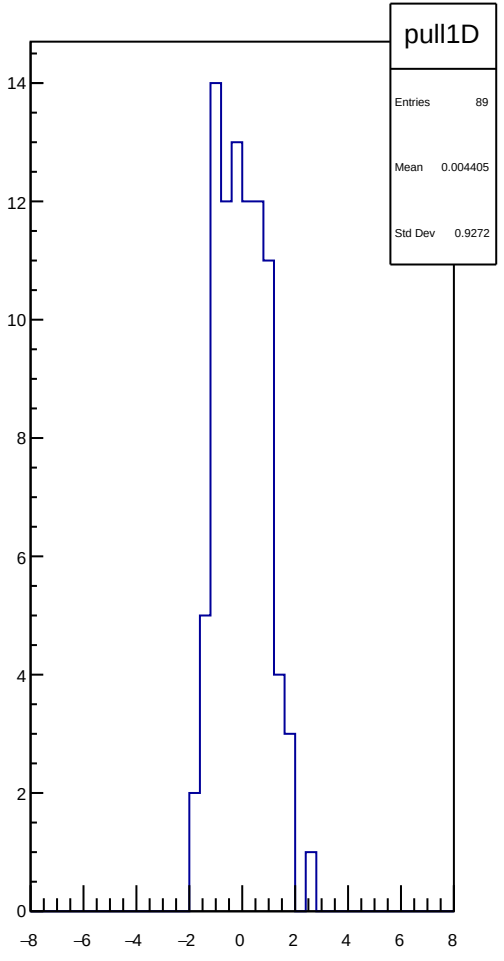

cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 3.196e+04 / 88
p0 57.44 ± 0.04402
90
85
80
75
70
65
60
55
50
45

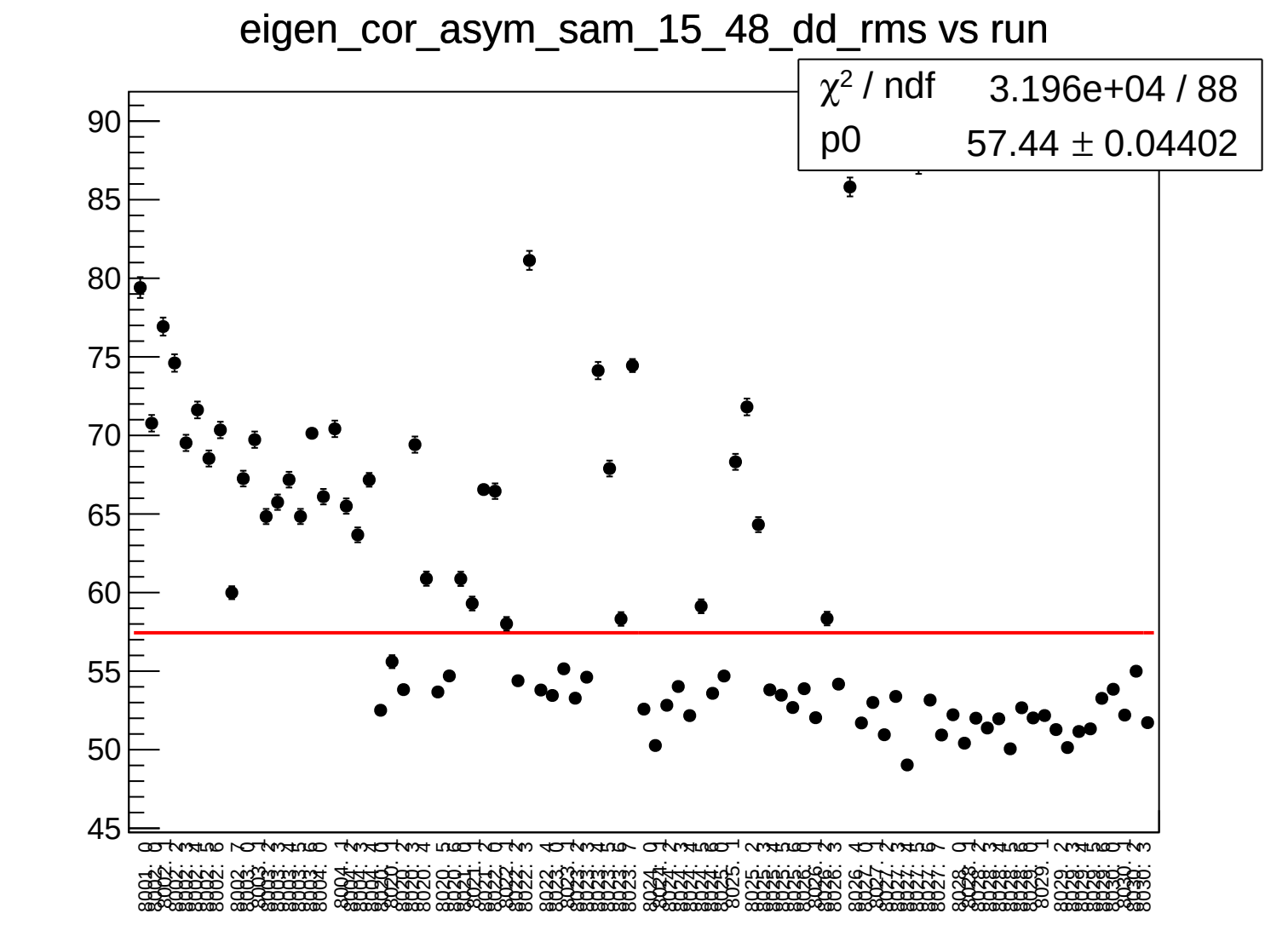

asym_sam_15_48_dd_cor_correction_mean vs run
χ² / ndf 88.42 / 88
p0 −458.6 ± 1047
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 203.5
Std Dev 0
2
1
0
−1
−2
−3

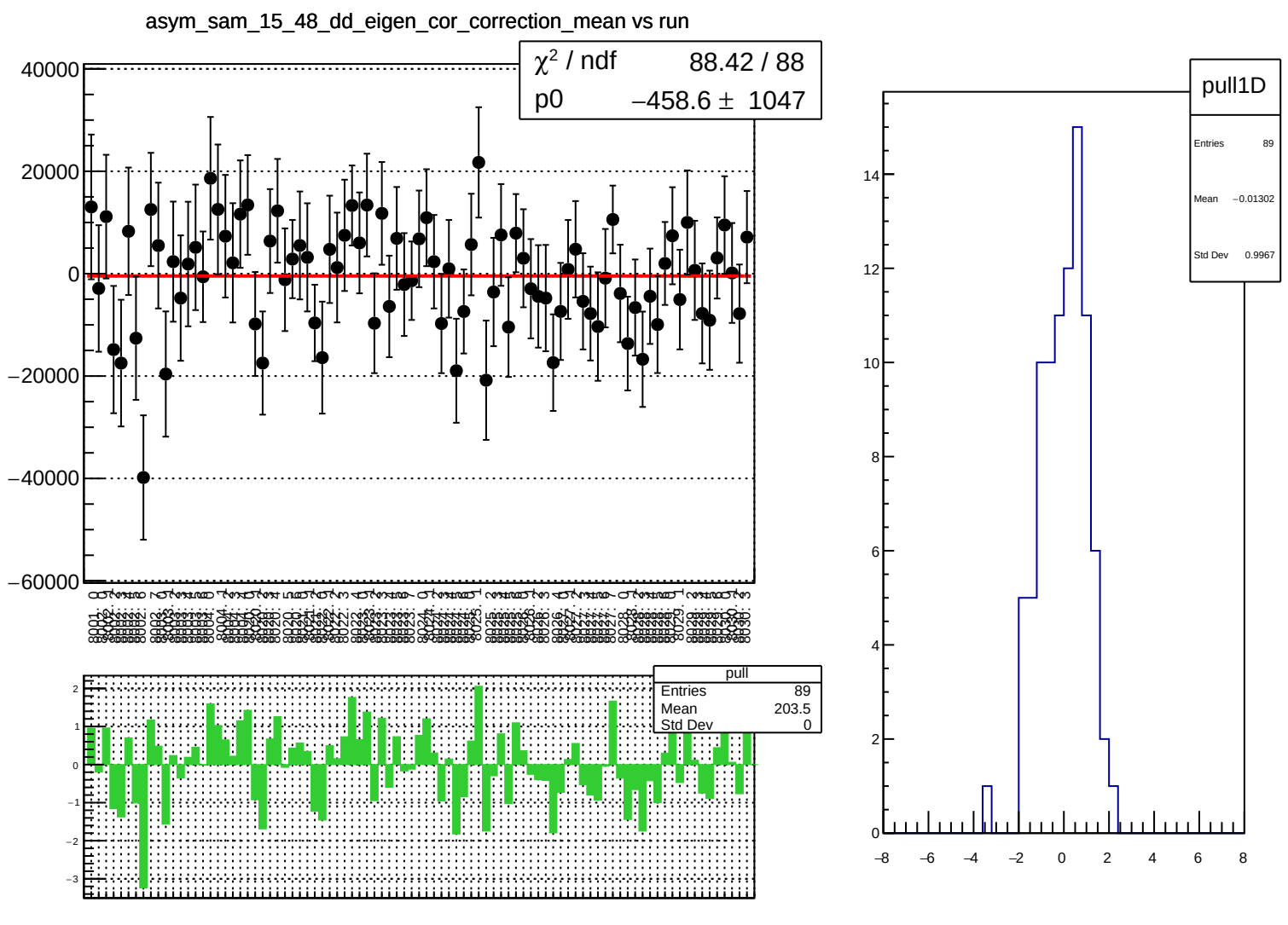

pull1D
Entries 89
Mean −0.01302
Std Dev 0.9967
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

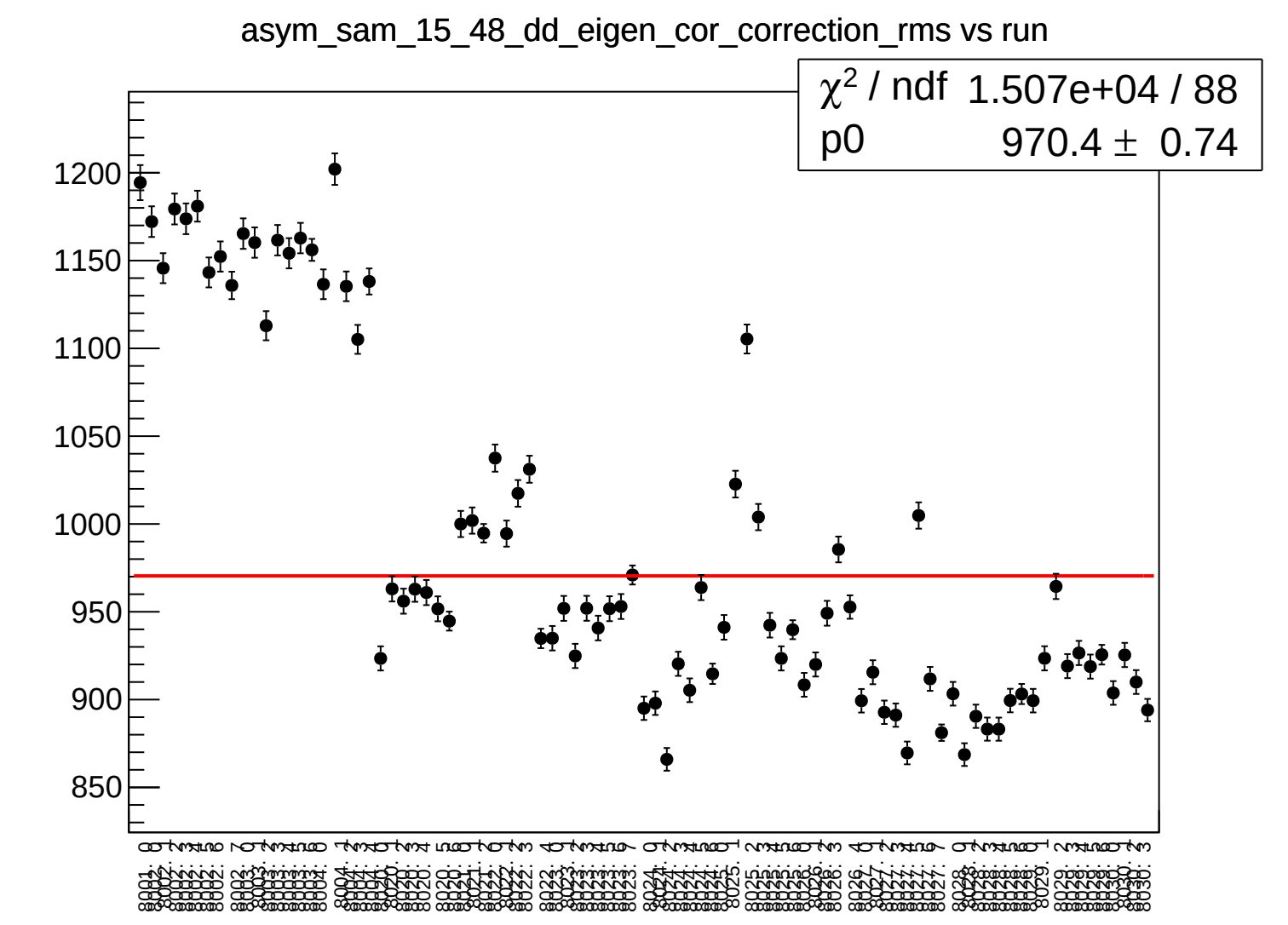

asym_sam_15_48_dd_cor_correction_rms vs run
χ² / ndf 1.507e+04 / 88
p0 970.4 ± 0.74
1200
1150
1100
1050
1000
950
900
850

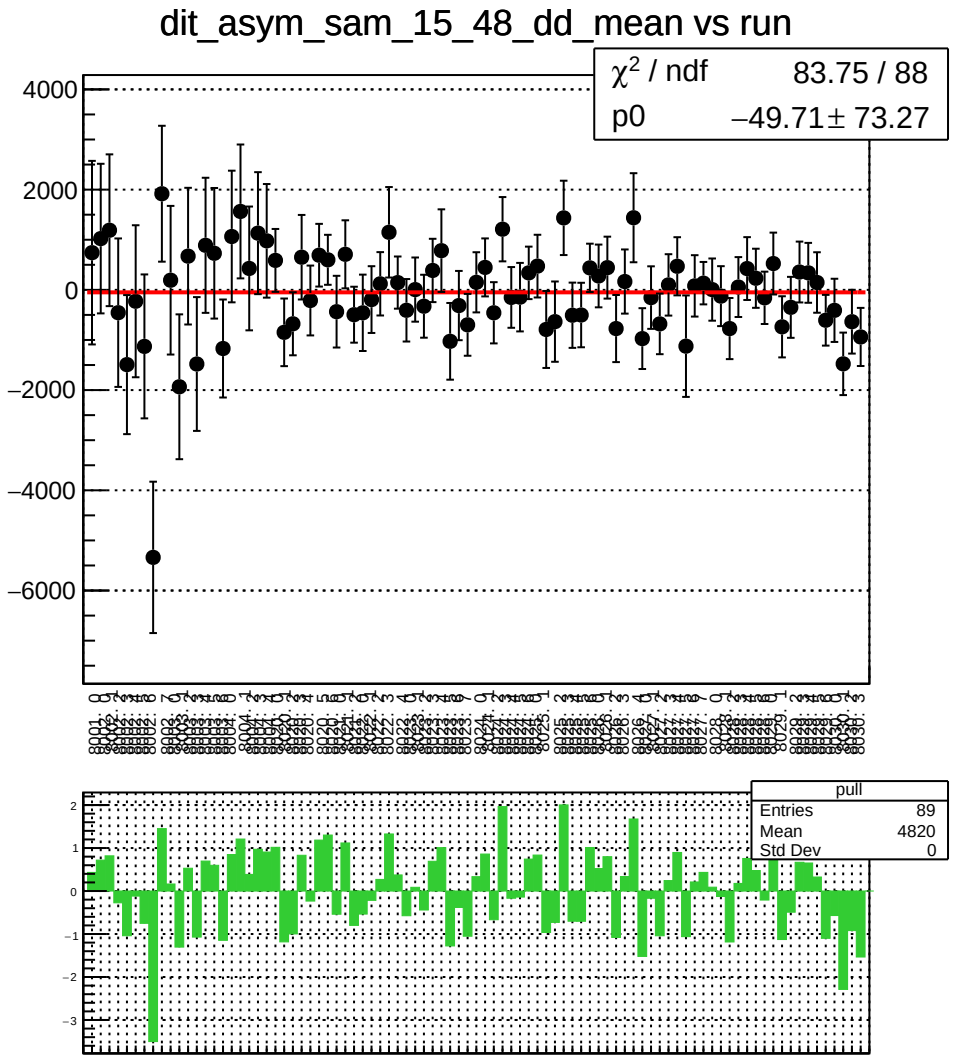

eigen_cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 76.52 / 88
p0 −41.8 ± 62.25
2000
1000
0
−1000
−2000
pull
Entries 89
Mean −477.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

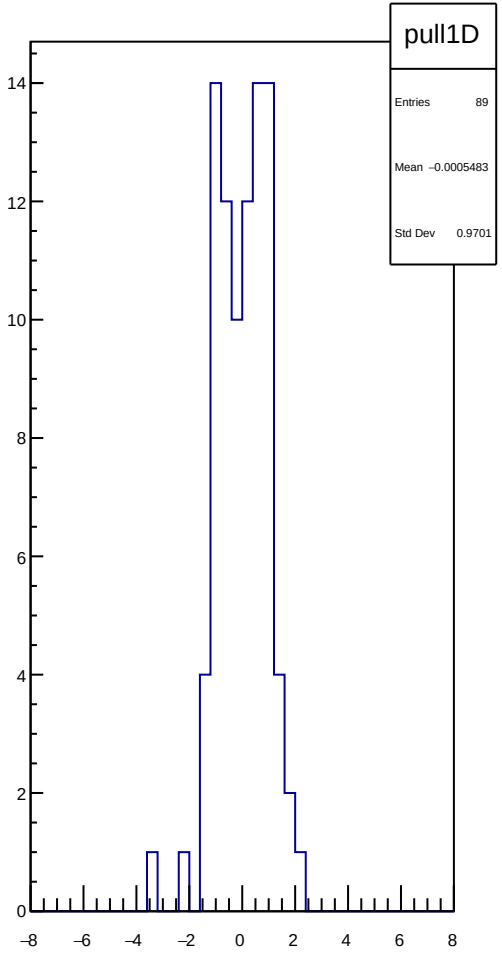

pull1D
Entries 89
Mean 0.004405
Std Dev 0.9272
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

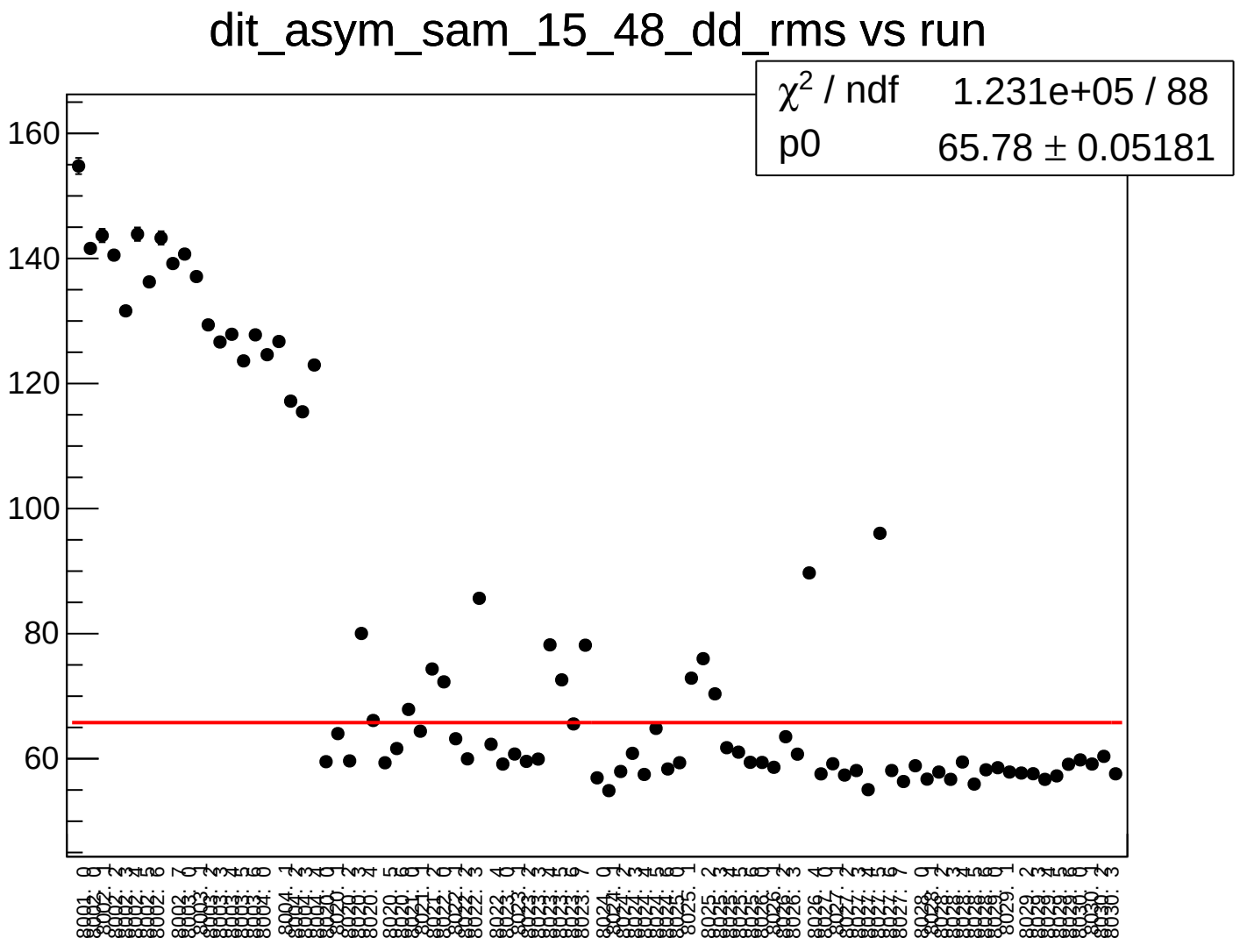

eigen_cor_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 3.196e+04 / 88
p0 57.44 ± 0.04402
90
85
80
75
70
65
60
55
50
45

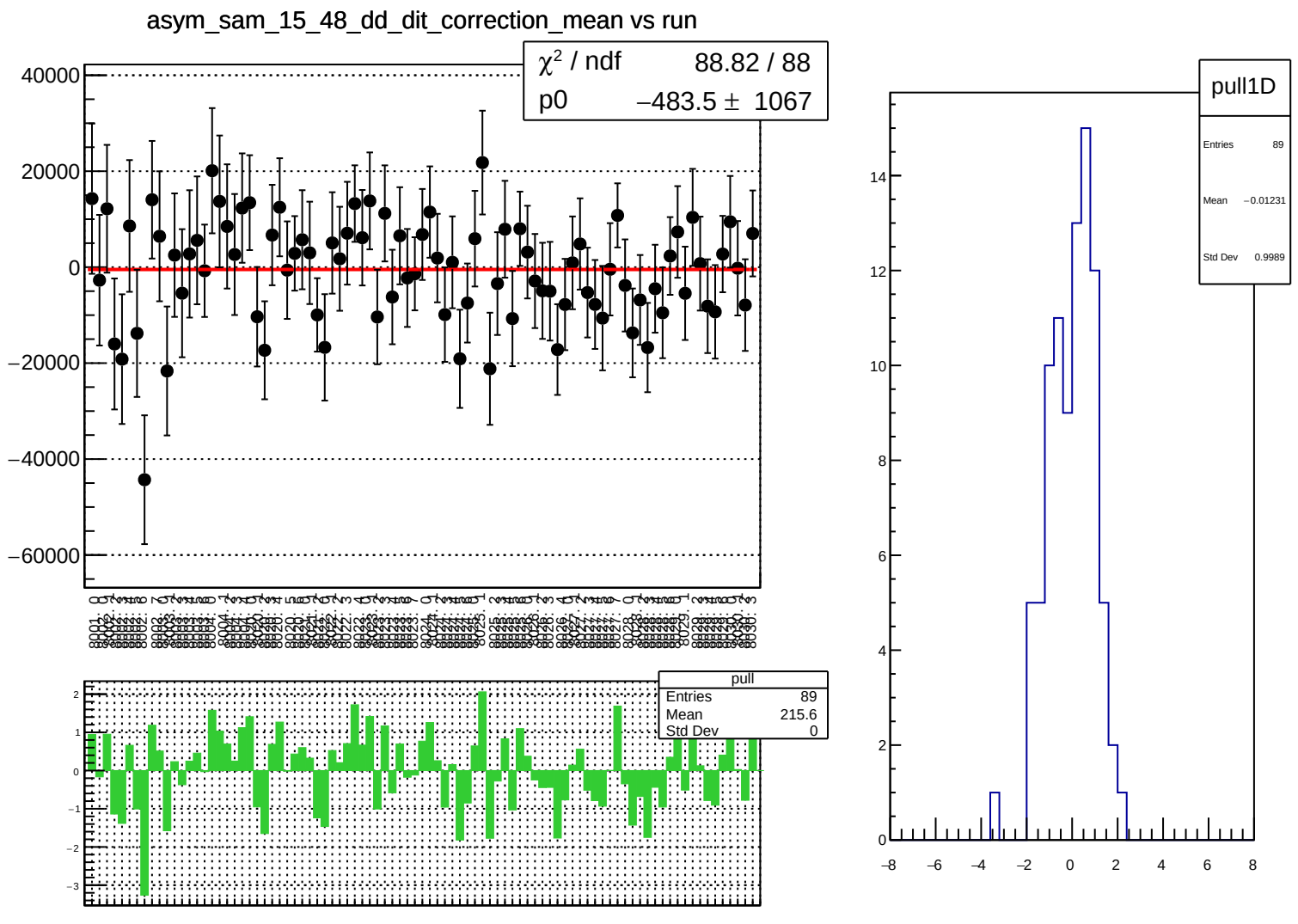

asym_sam_15_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 88.42 / 88
p0 −458.6 ± 1047
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 203.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.01302
Std Dev 0.9967
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

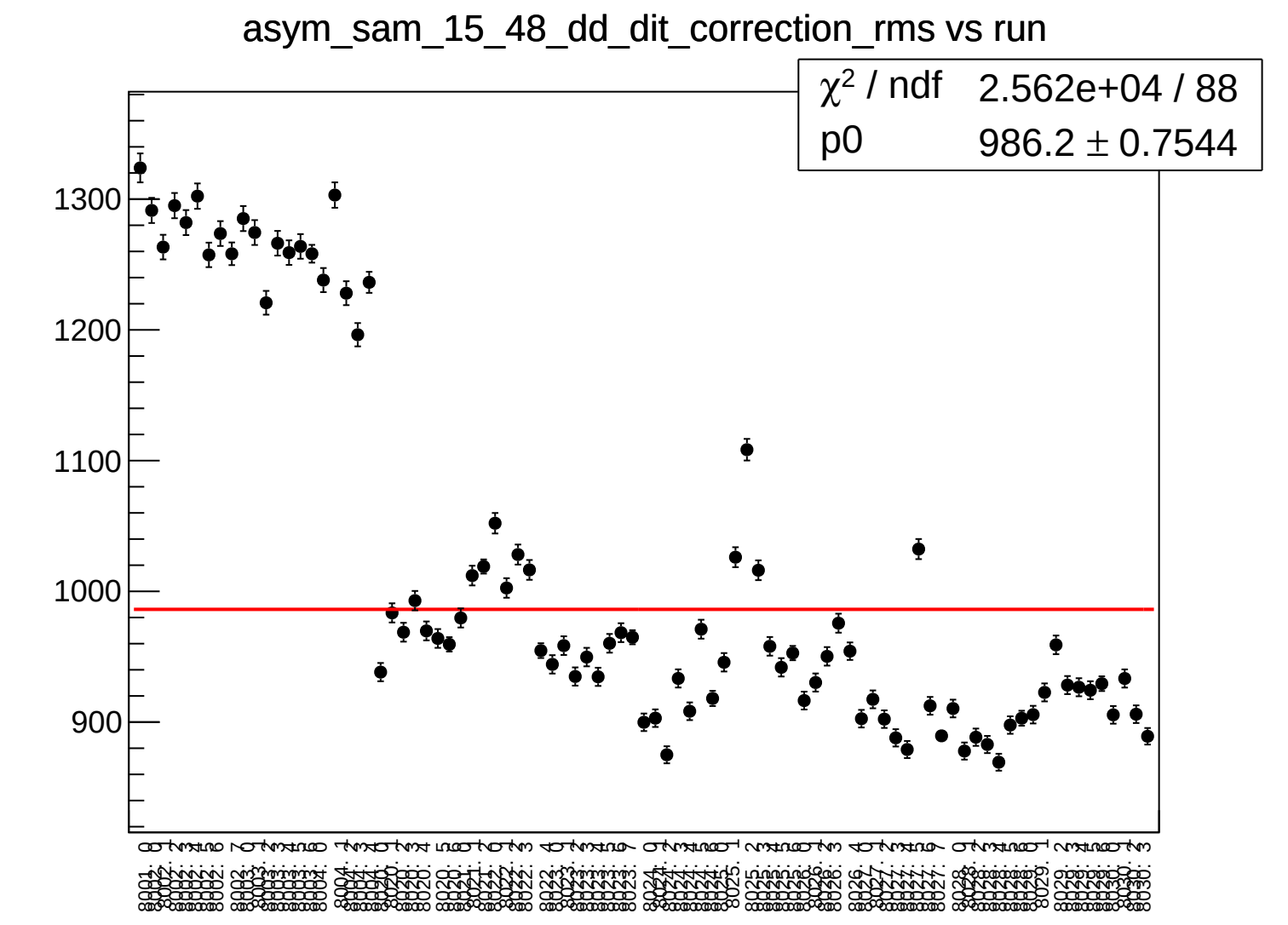

asym_sam_15_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.507e+04 / 88
p0 970.4 ± 0.74
1200
1150
1100
1050
1000
950
900
850

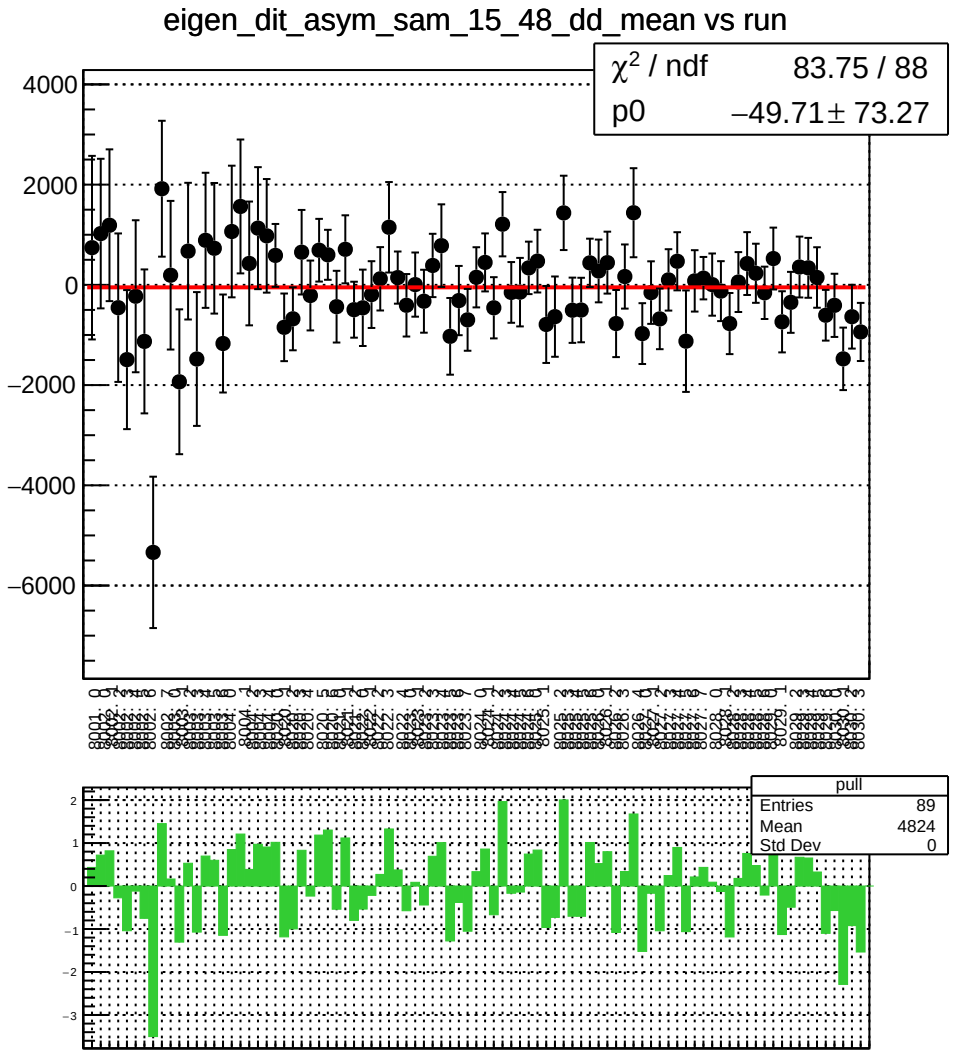

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 83.75 / 88
p0 −49.71± 73.27
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean 4820
Std Dev 0
2
1
0
−1
−2
−3

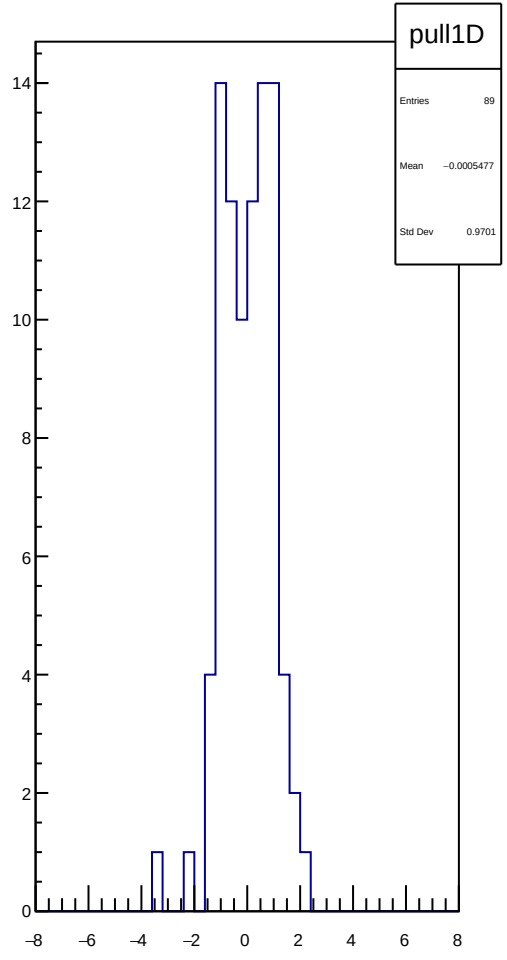

pull1D
Entries 89
Mean −0.0005483
Std Dev 0.9701
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

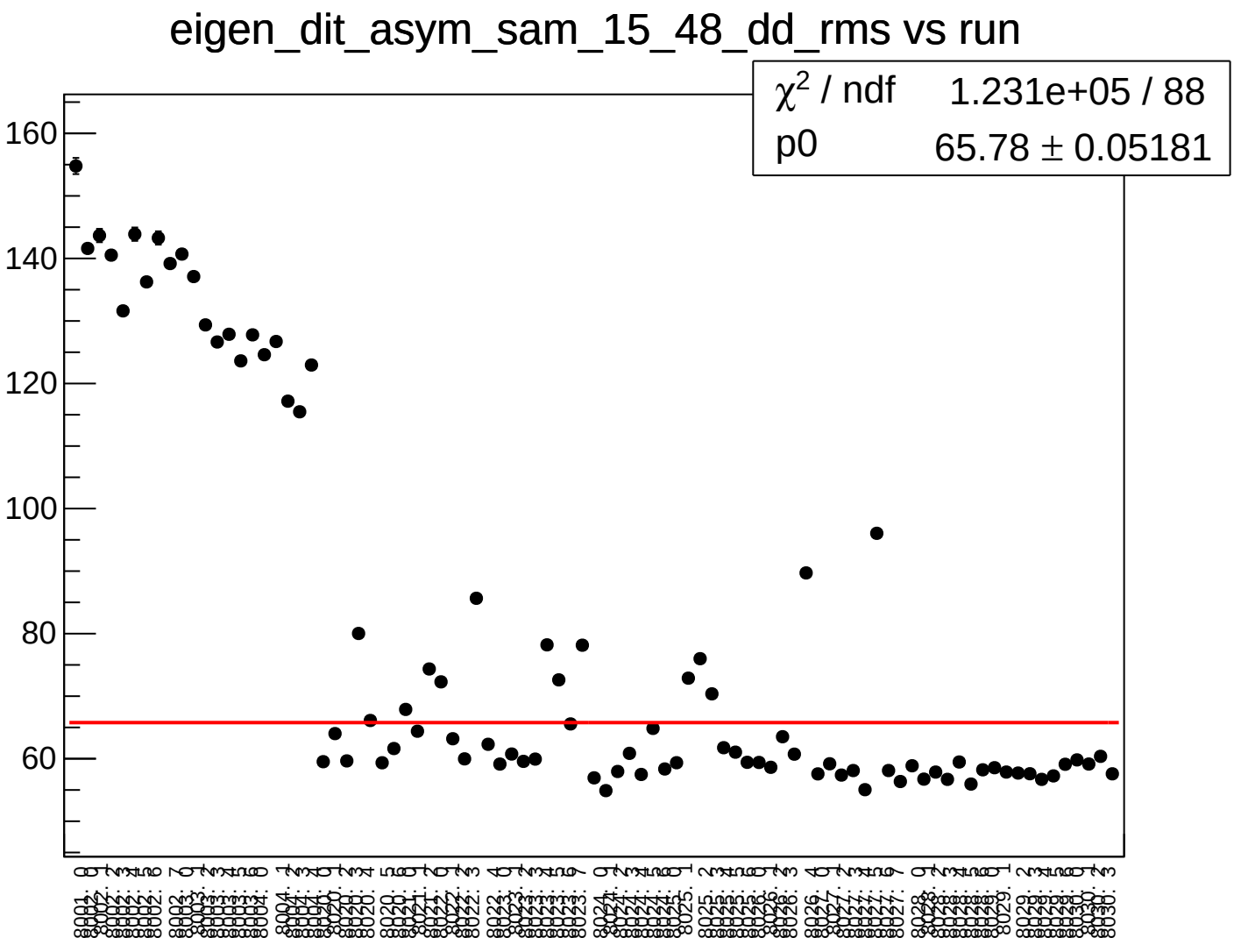

dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 1.231e+05 / 88
p0 65.78 ± 0.05181
160
140
120
100
80
60

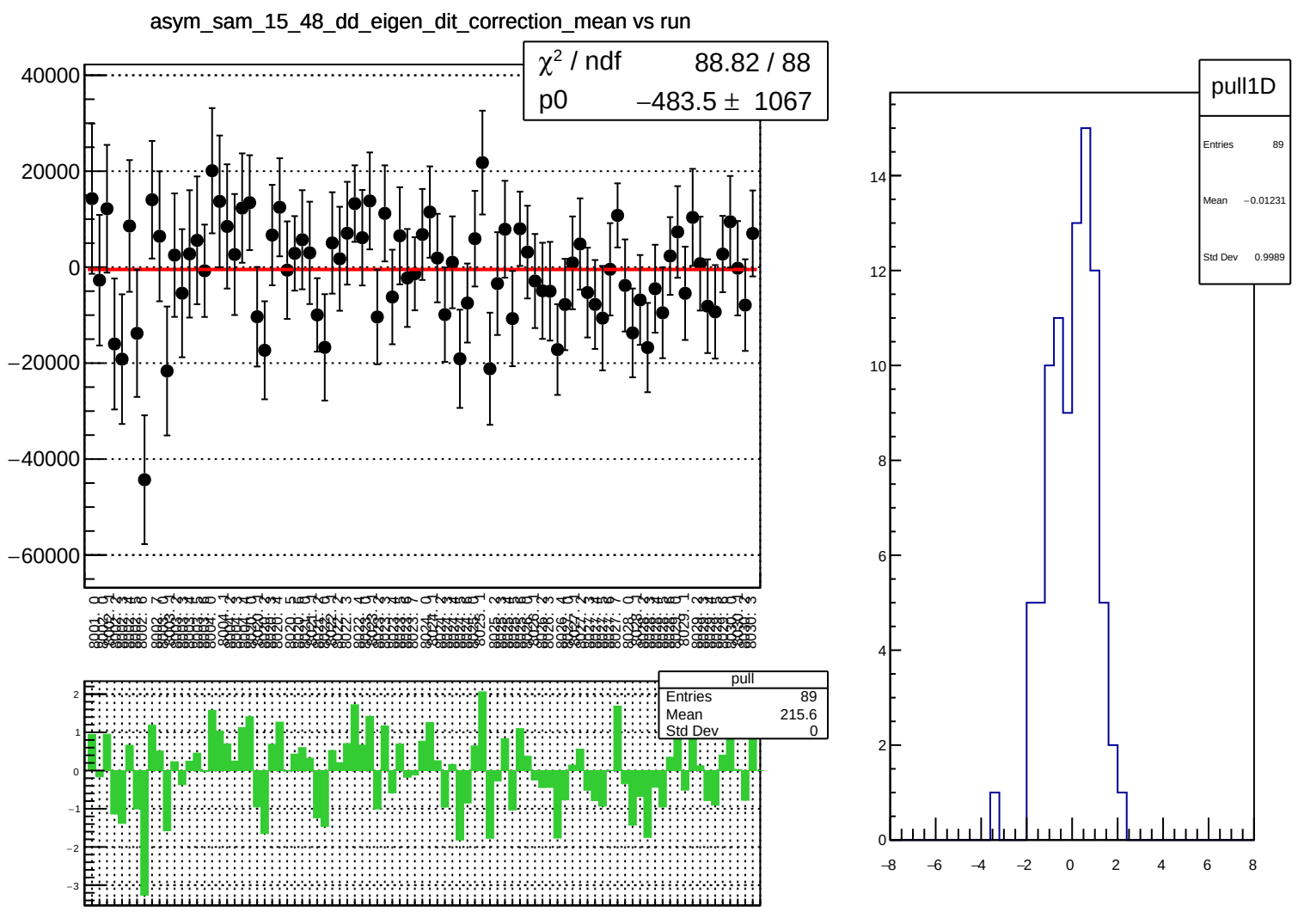

asym_sam_15_48_dd_dit_correction_mean vs run
χ² / ndf 88.82 / 88
p0 −483.5 ± 1067
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 215.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.01231
Std Dev 0.9989
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

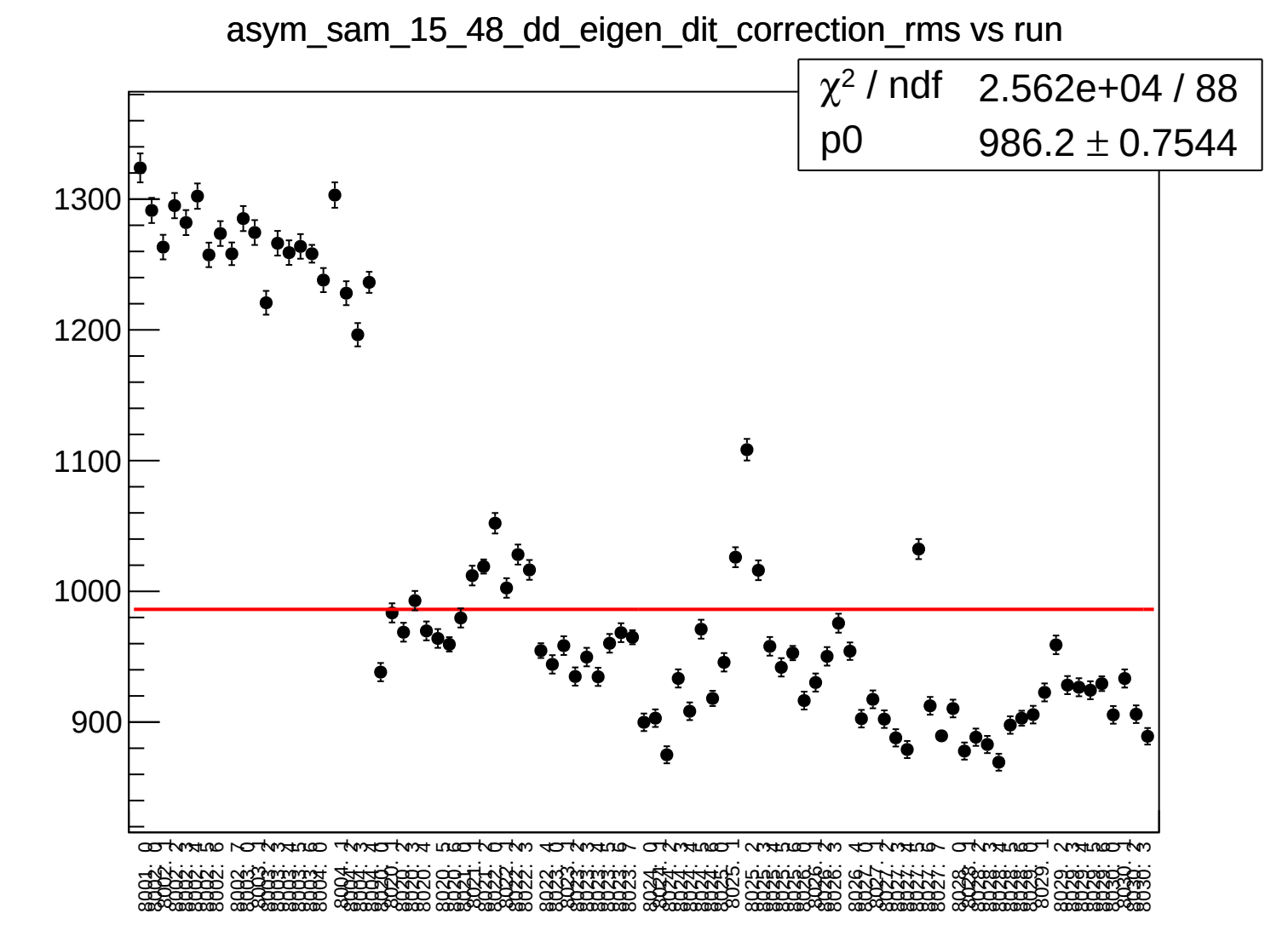

asym_sam_15_48_dd_dit_correction_rms vs run
χ² / ndf 2.562e+04 / 88
p0 986.2 ± 0.7544
1300
1200
1100
1000
900

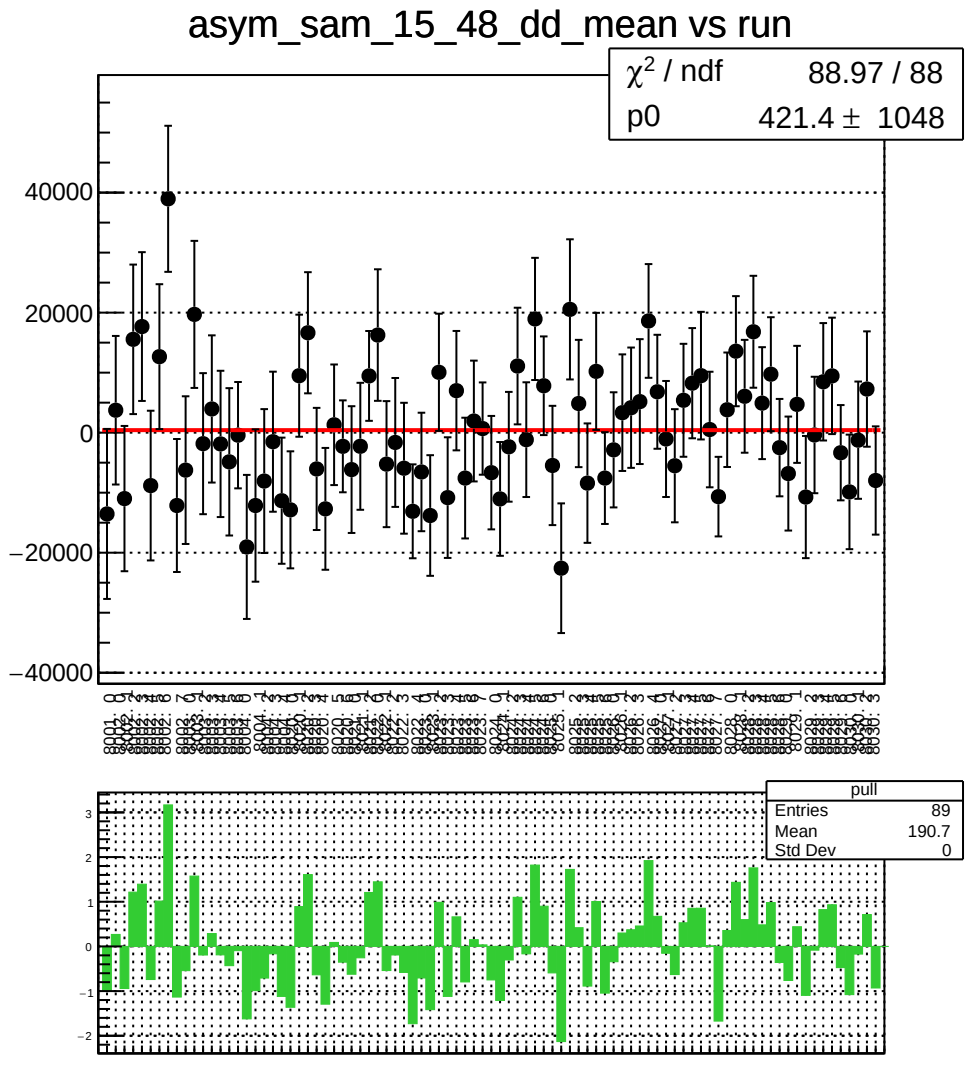

eigen_dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 83.75 / 88
p0 −49.71± 73.27
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean 4824
Std Dev 0
2
1
0
−1
−2
−3

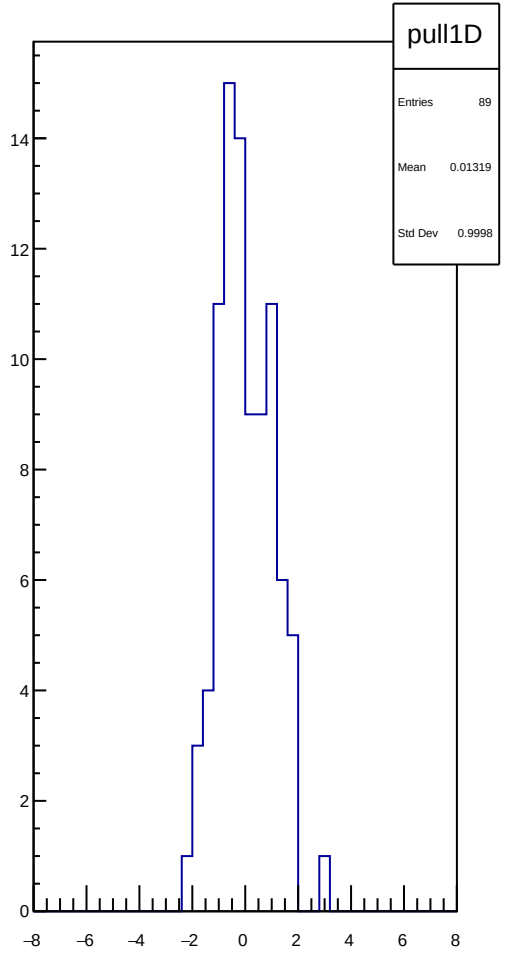

pull1D
Entries 89
Mean −0.0005477
Std Dev 0.9701
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

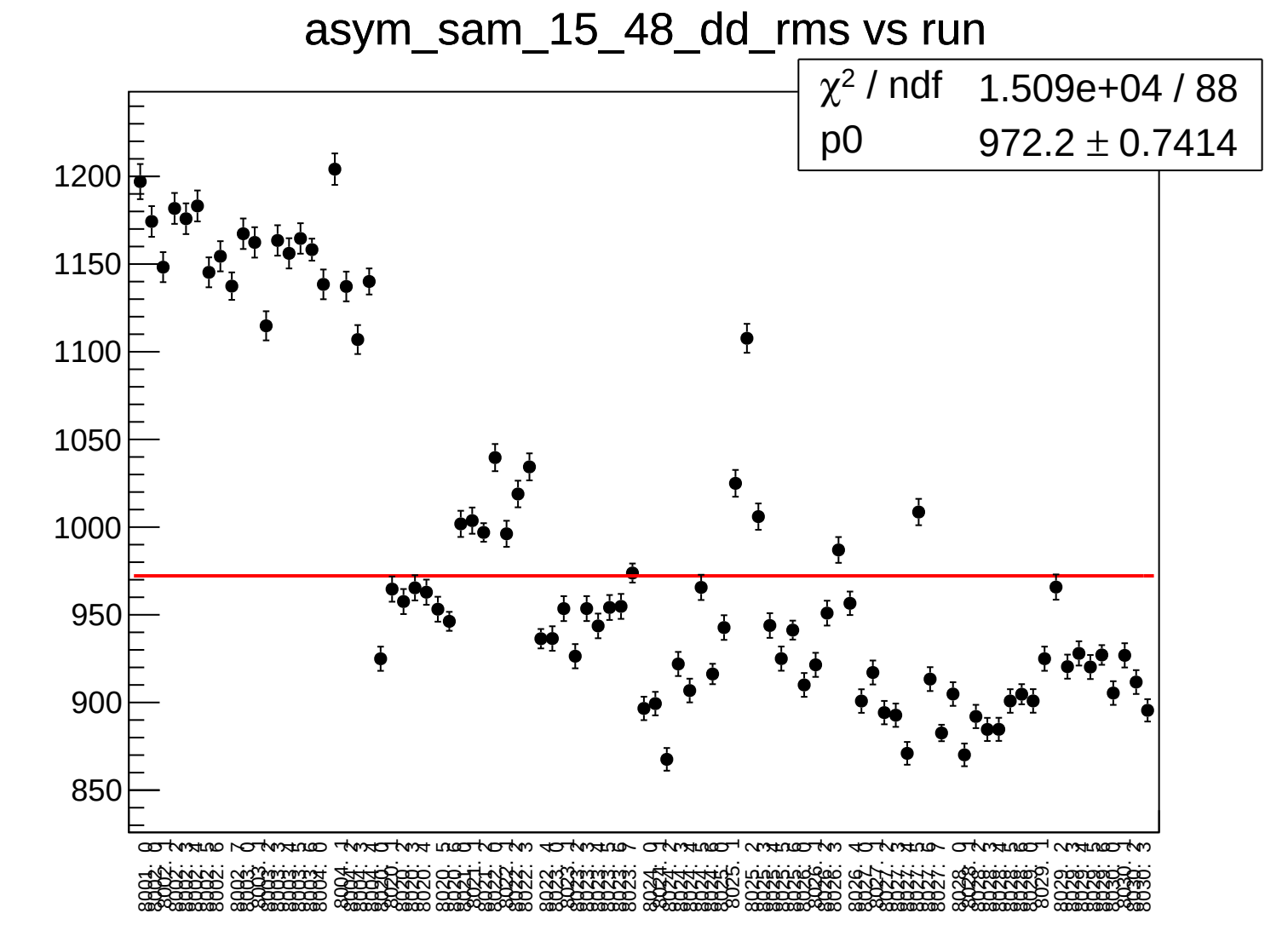

eigen_dit_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 1.231e+05 / 88
p0 65.78 ± 0.05181
160
140
120
100
80
60

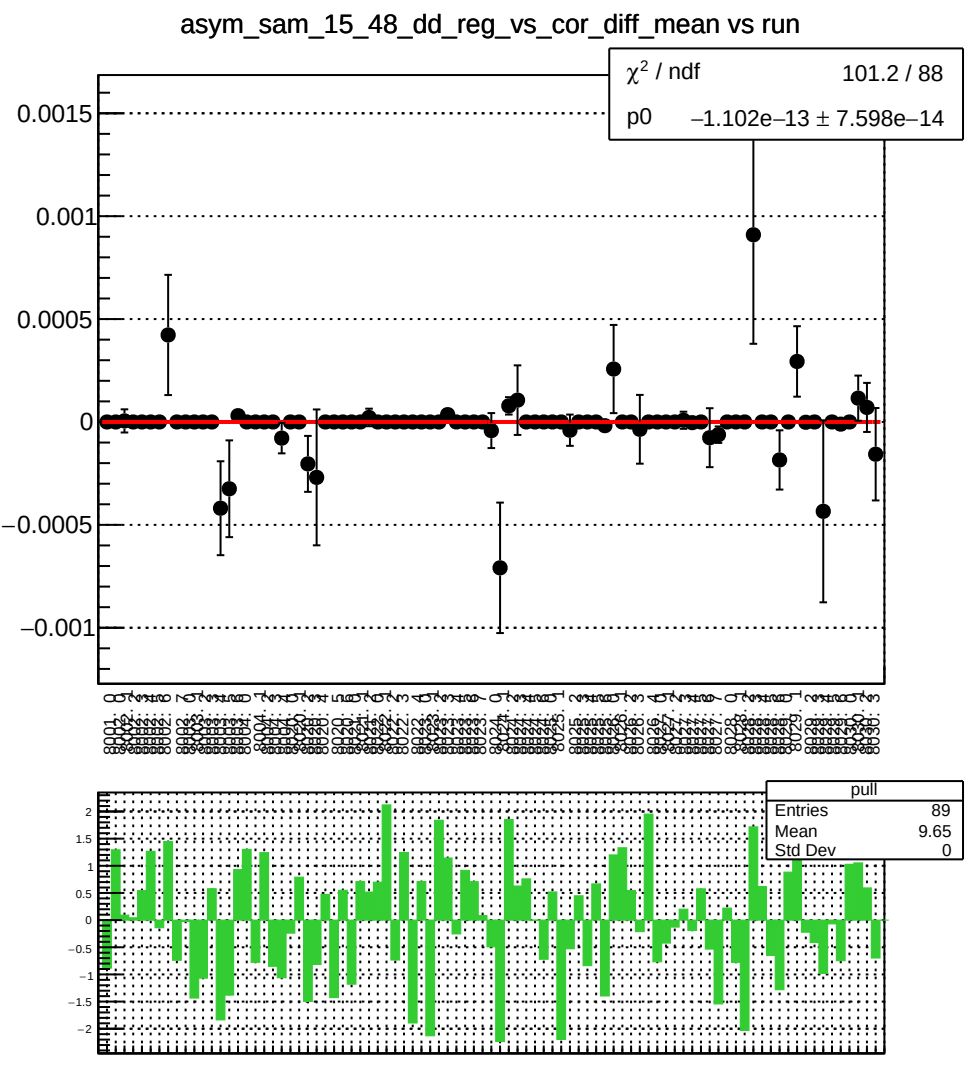

asym_sam_15_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 88.82 / 88
p0 −483.5 ± 1067
pull
Entries 89
Mean 215.6
Std Dev 0
pull1D
Entries 89
Mean −0.01231
Std Dev 0.9989

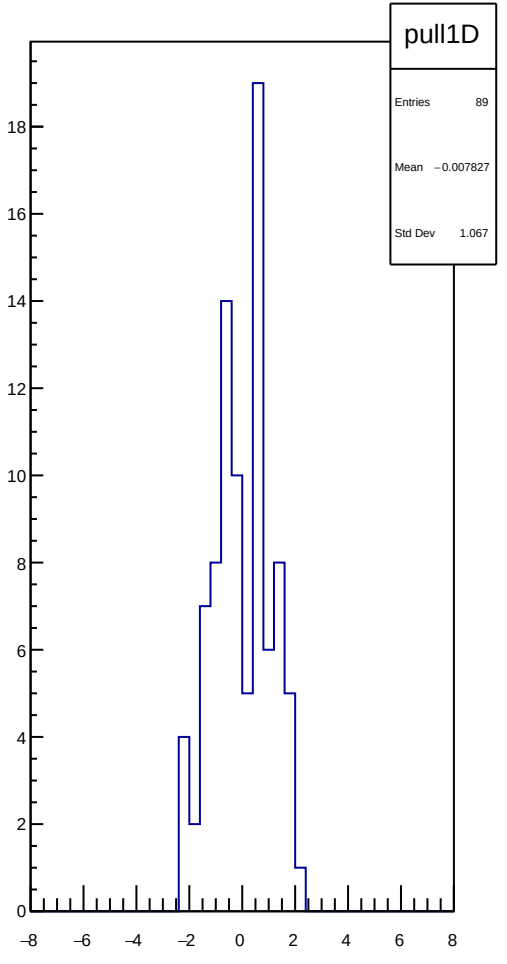

asym_sam_15_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.562e+04 / 88
p0 986.2 ± 0.7544
1300
1200
1100
1000
900

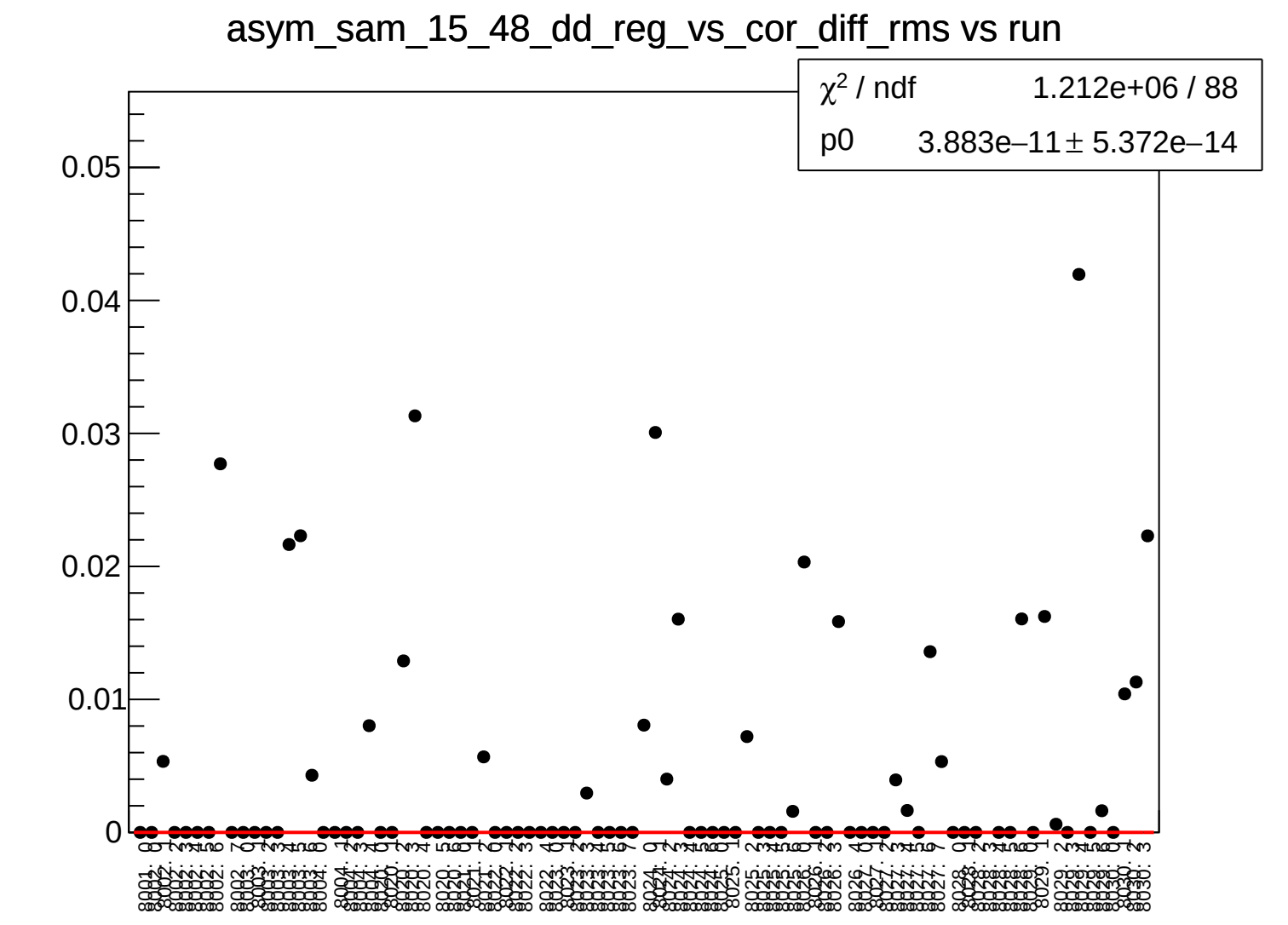

asym_sam_15_48_dd_mean vs run
χ² / ndf 88.97 / 88
p0 421.4 ± 1048
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 190.7
Std Dev 0
3
2
1
0
−1
−2

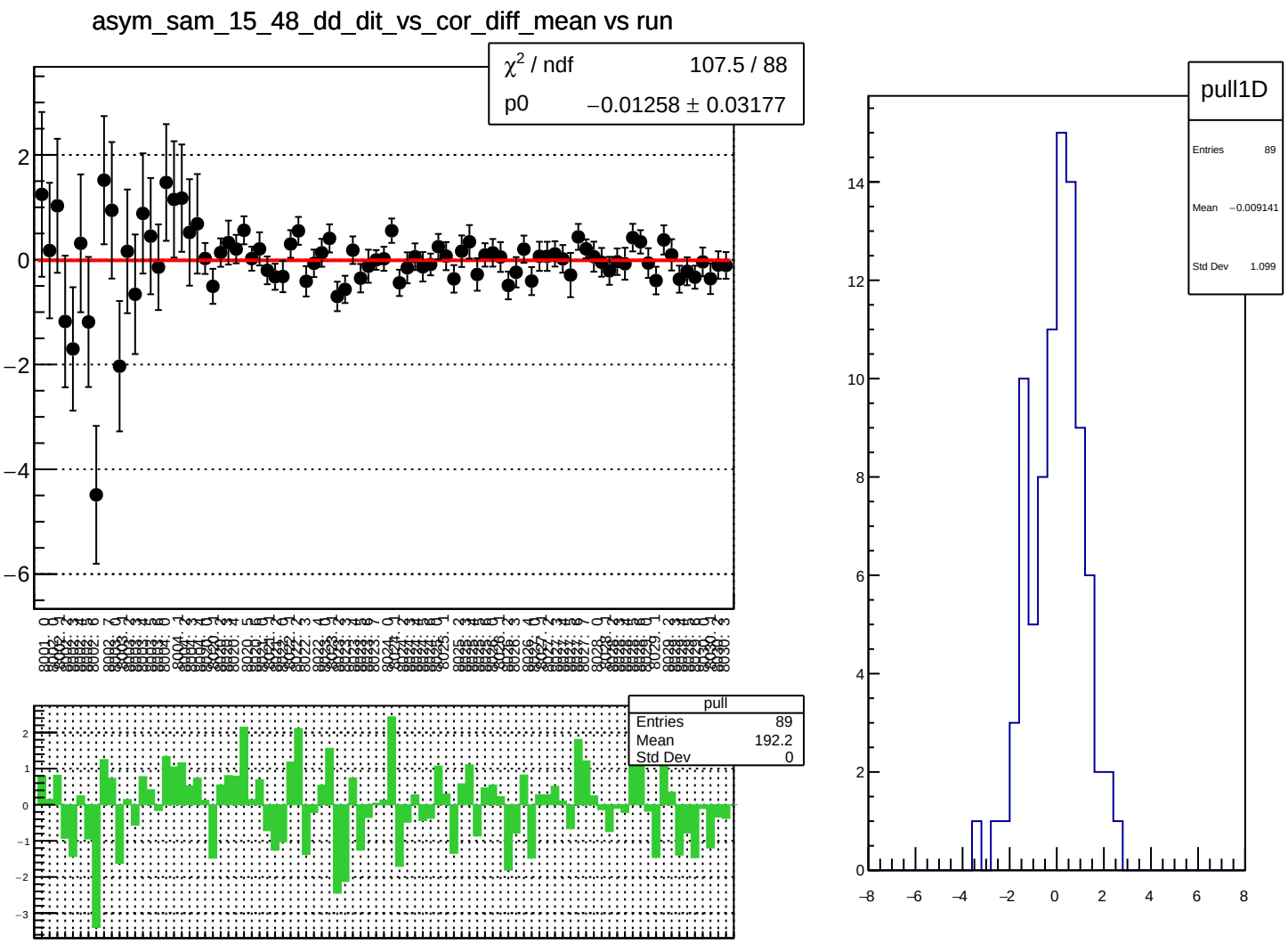

pull1D
Entries 89
Mean 0.01319
Std Dev 0.9998
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

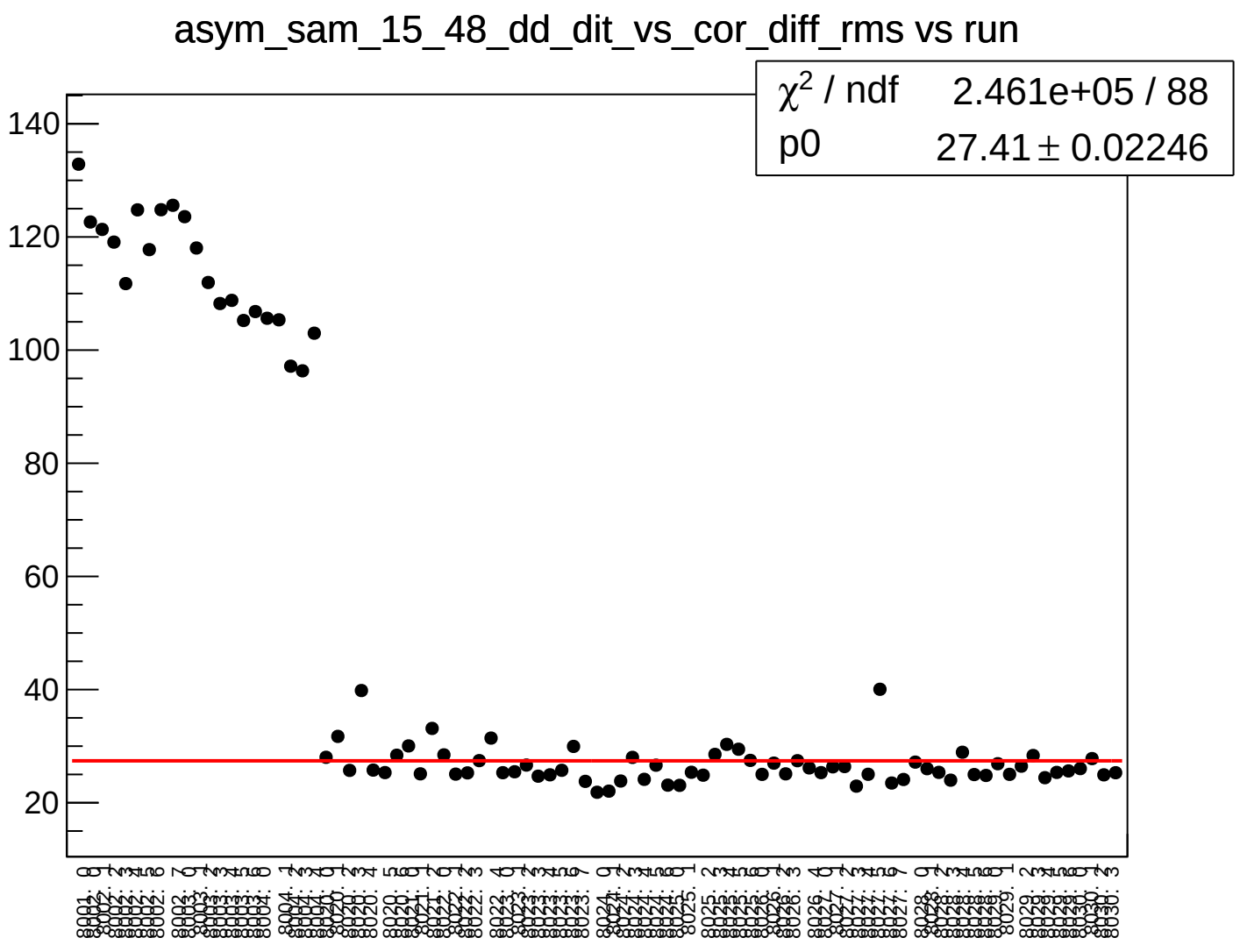

asym_sam_15_48_dd_rms vs run
χ² / ndf 1.509e+04 / 88
p0 972.2 ± 0.7414
1200
1150
1100
1050
1000
950
900
850

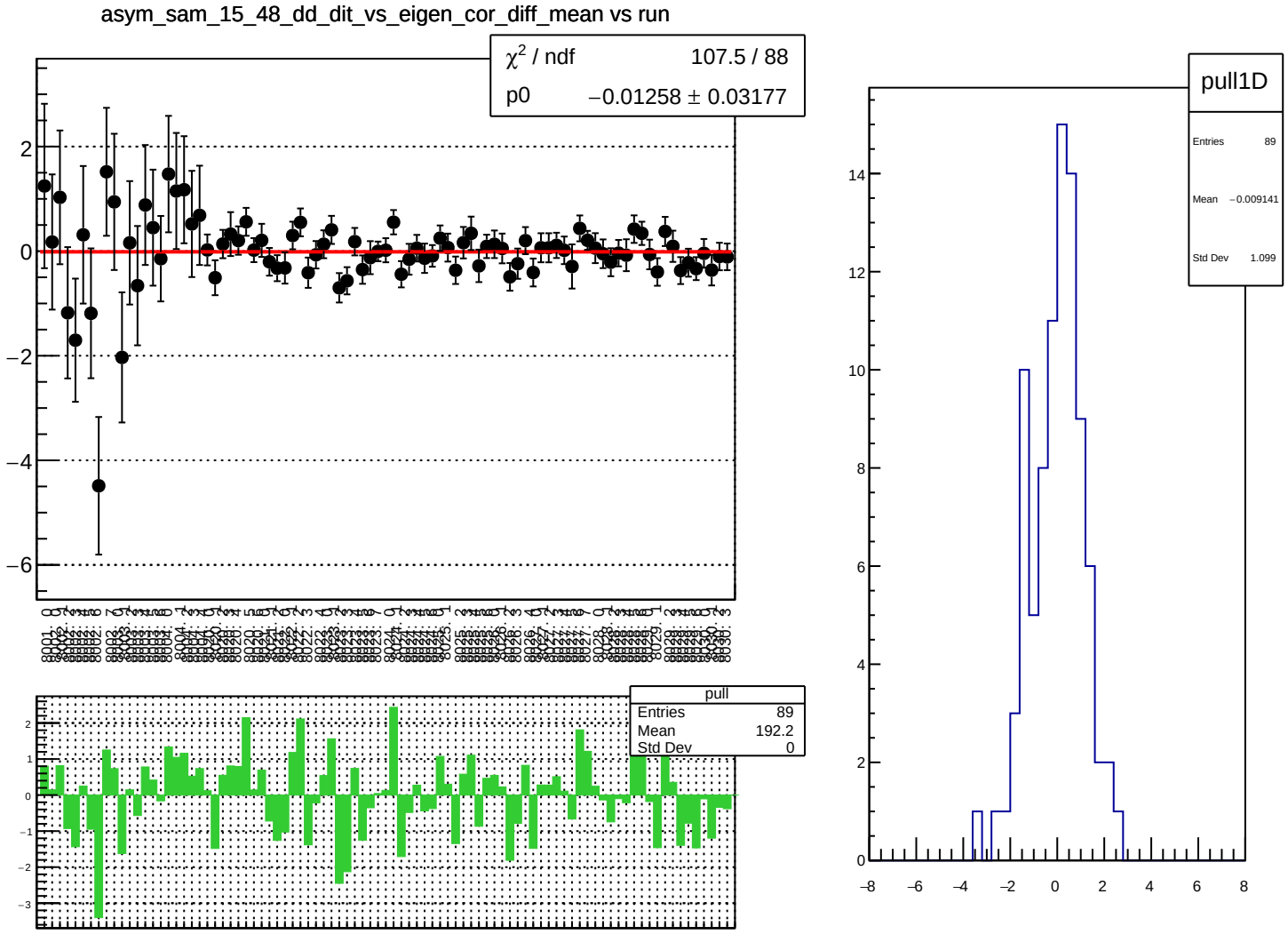

asym_sam_15_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 101.2 / 88
p0 −1.102e−13 ± 7.598e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 89
Mean 9.65
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

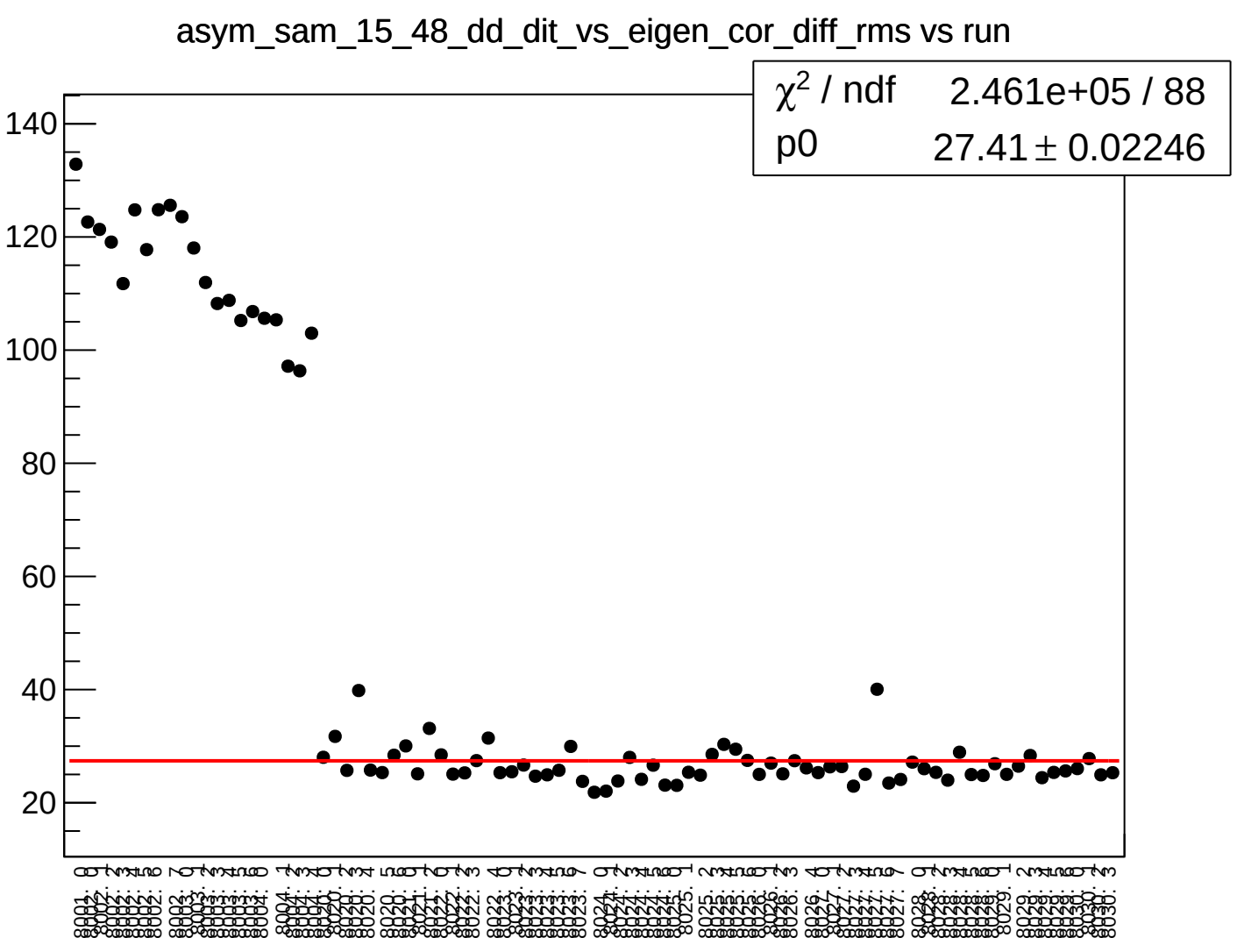

pull1D
Entries 89
Mean −0.007827
Std Dev 1.067
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

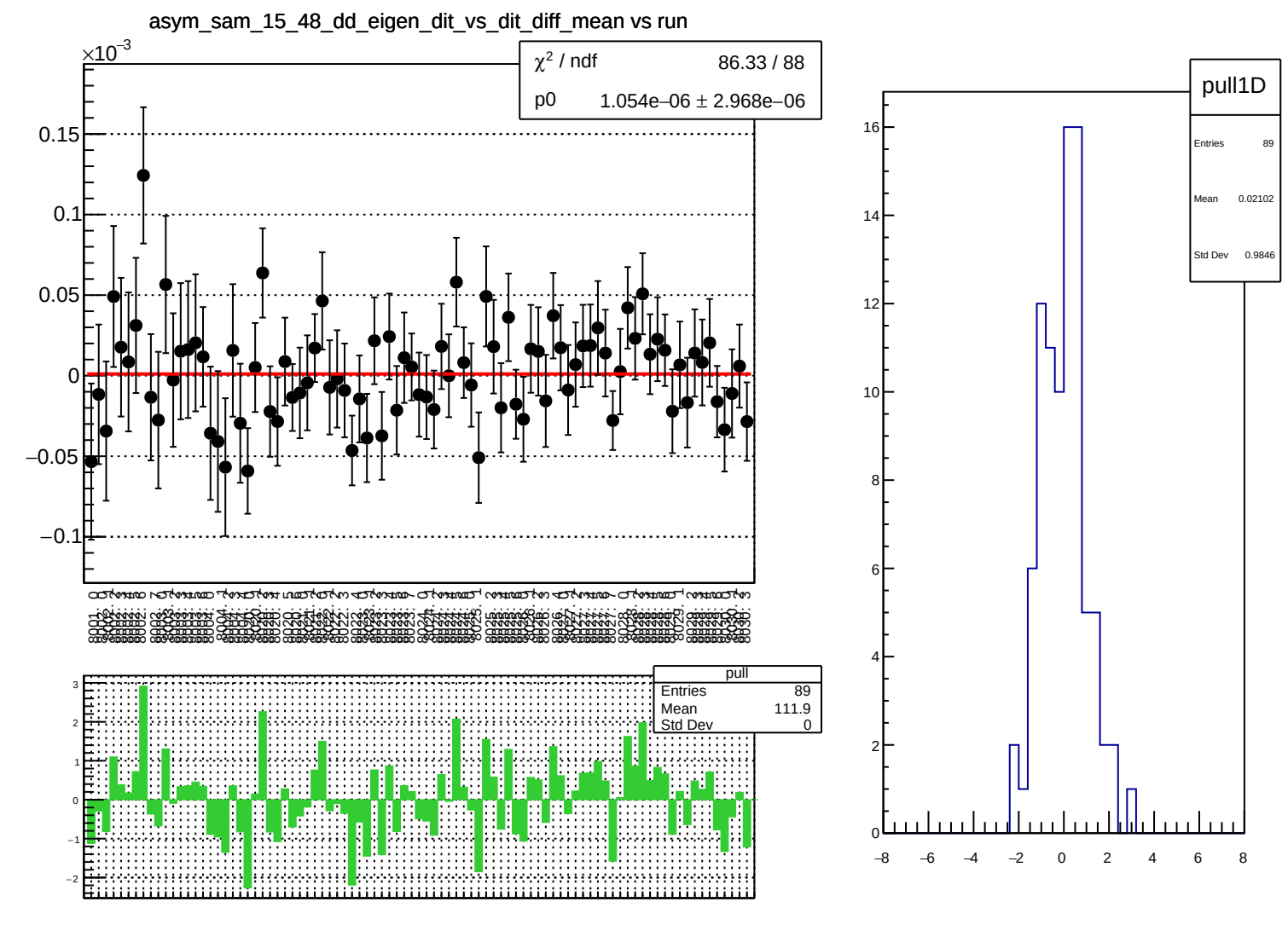

asym_sam_15_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.212e+06 / 88
p0 3.883e−11 ± 5.372e−14
0.05
0.04
0.03
0.02
0.01
0

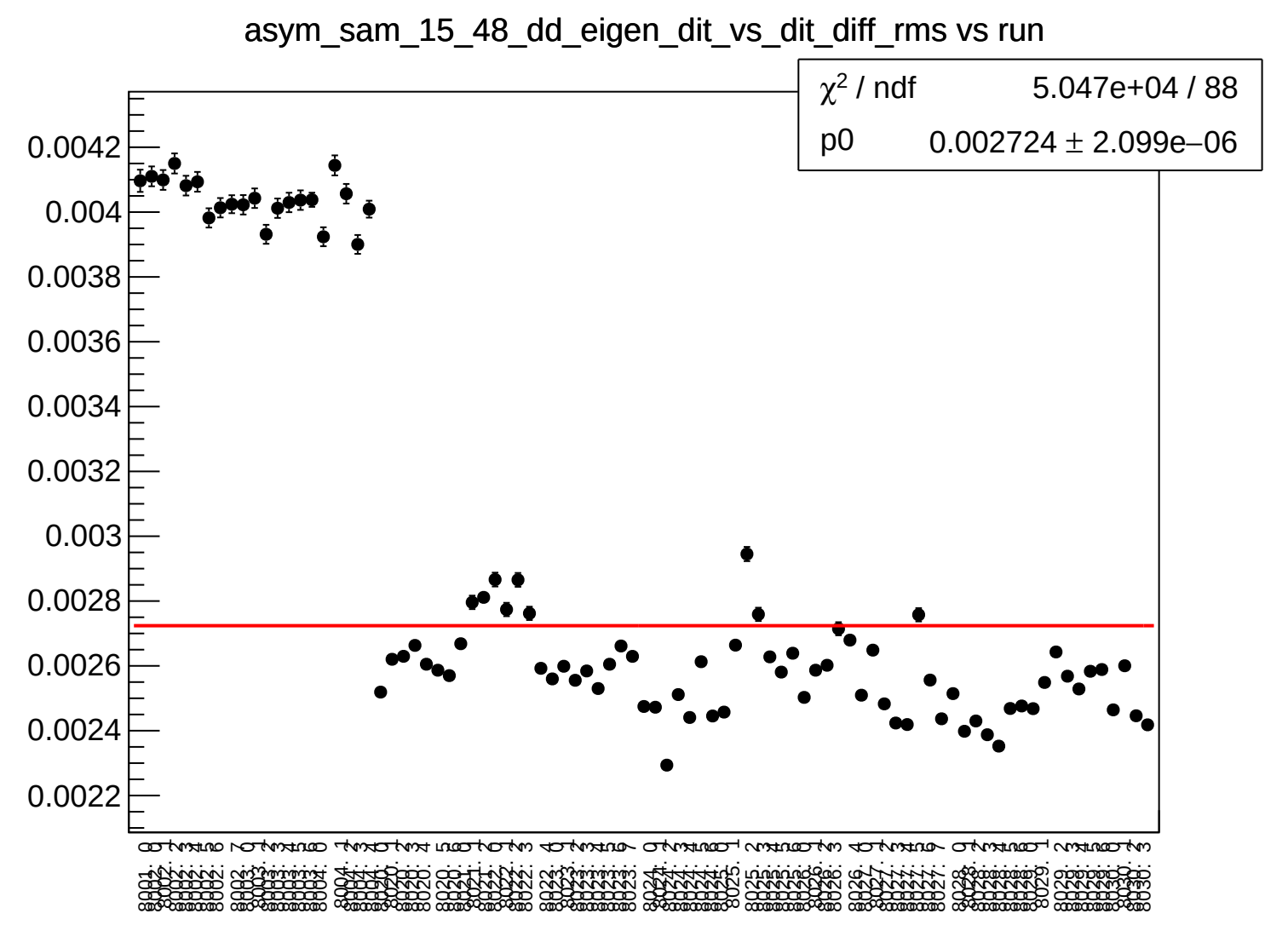

asym_sam_15_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 107.5 / 88
p0 −0.01258 ± 0.03177
pull
Entries 89
Mean 192.2
Std Dev 0
pull1D
Entries 89
Mean −0.009141
Std Dev 1.099

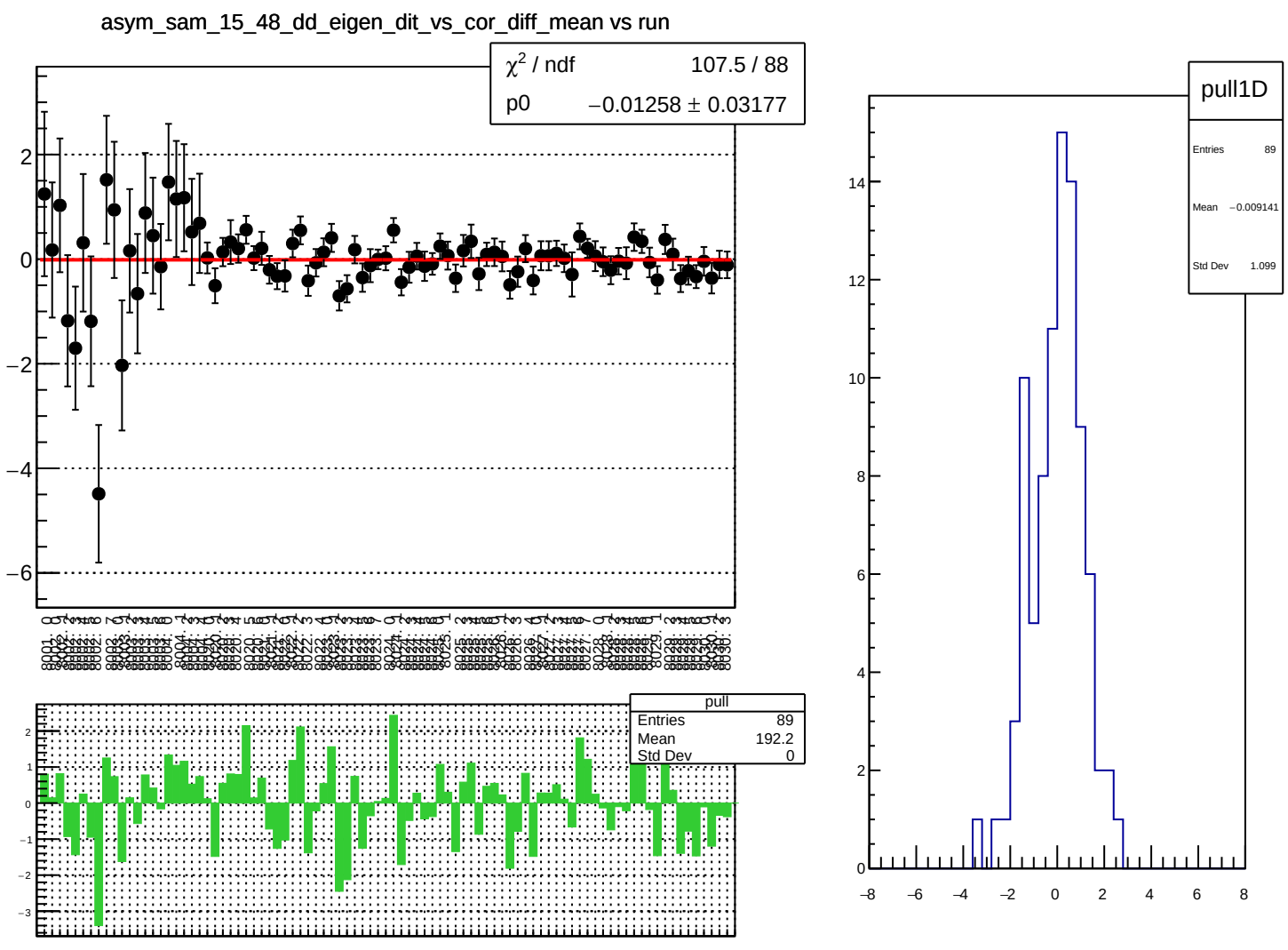

asym_sam_15_48_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.461e+05 / 88
p0 27.41 ± 0.02246
140
120
100
80
60
40
20

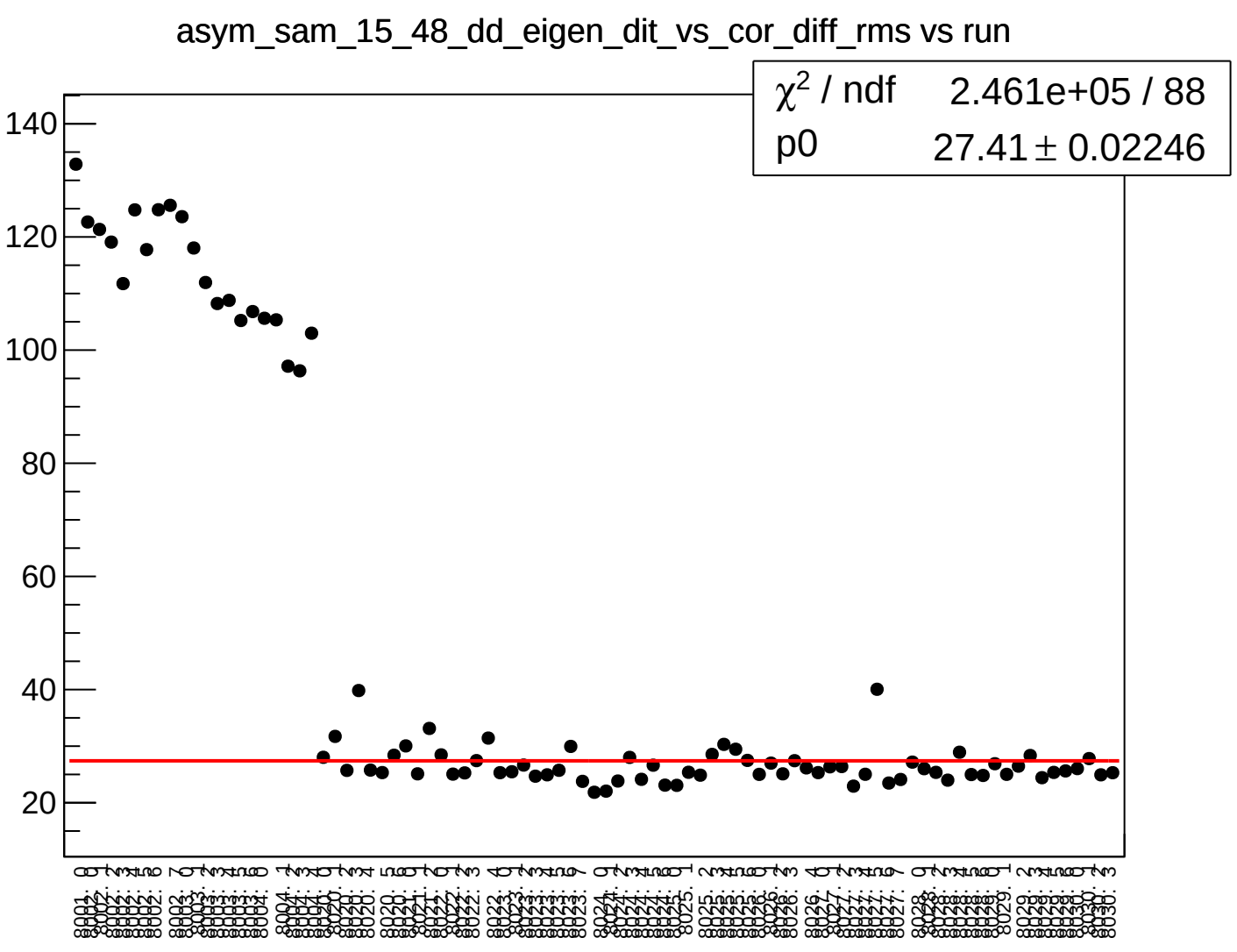

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.5 / 88
p0 −0.01258 ± 0.03177
pull
Entries 89
Mean 192.2
Std Dev 0
pull1D
Entries 89
Mean −0.009141
Std Dev 1.099

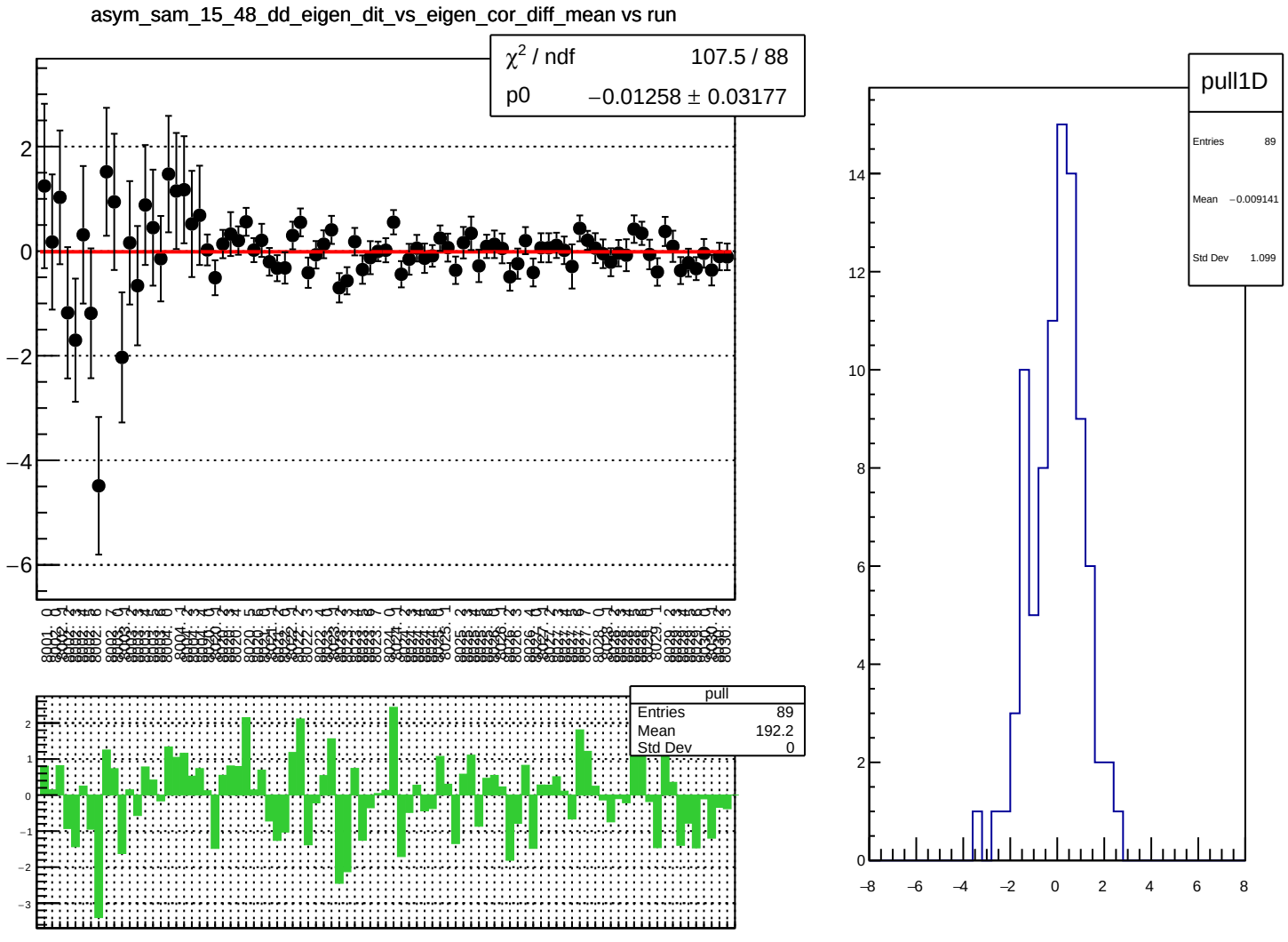

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.461e+05 / 88
p0 27.41 ± 0.02246
140
120
100
80
60
40
20

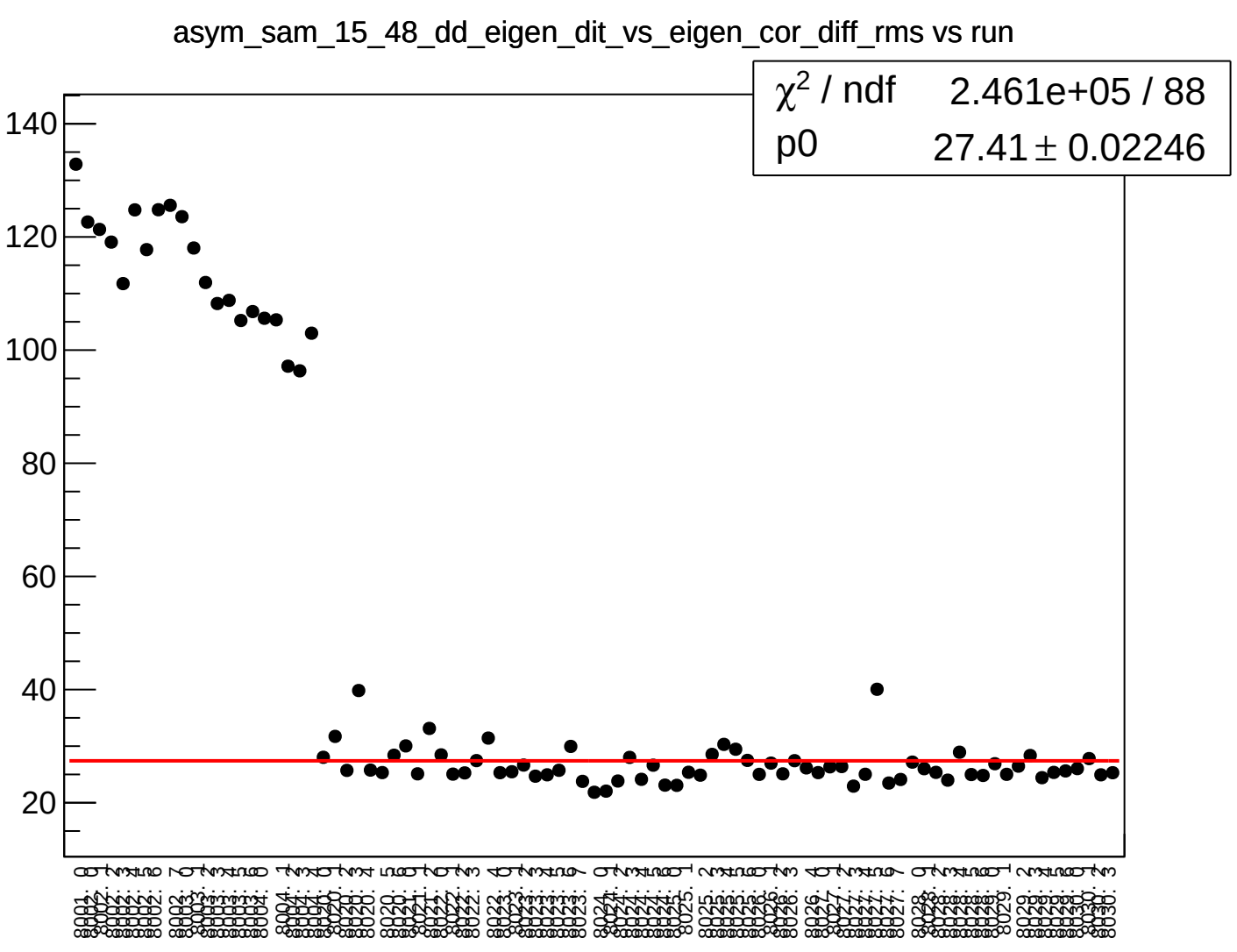

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.33 / 88
p0 1.054e−06 ± 2.968e−06
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 89
Mean 111.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.02102
Std Dev 0.9846
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

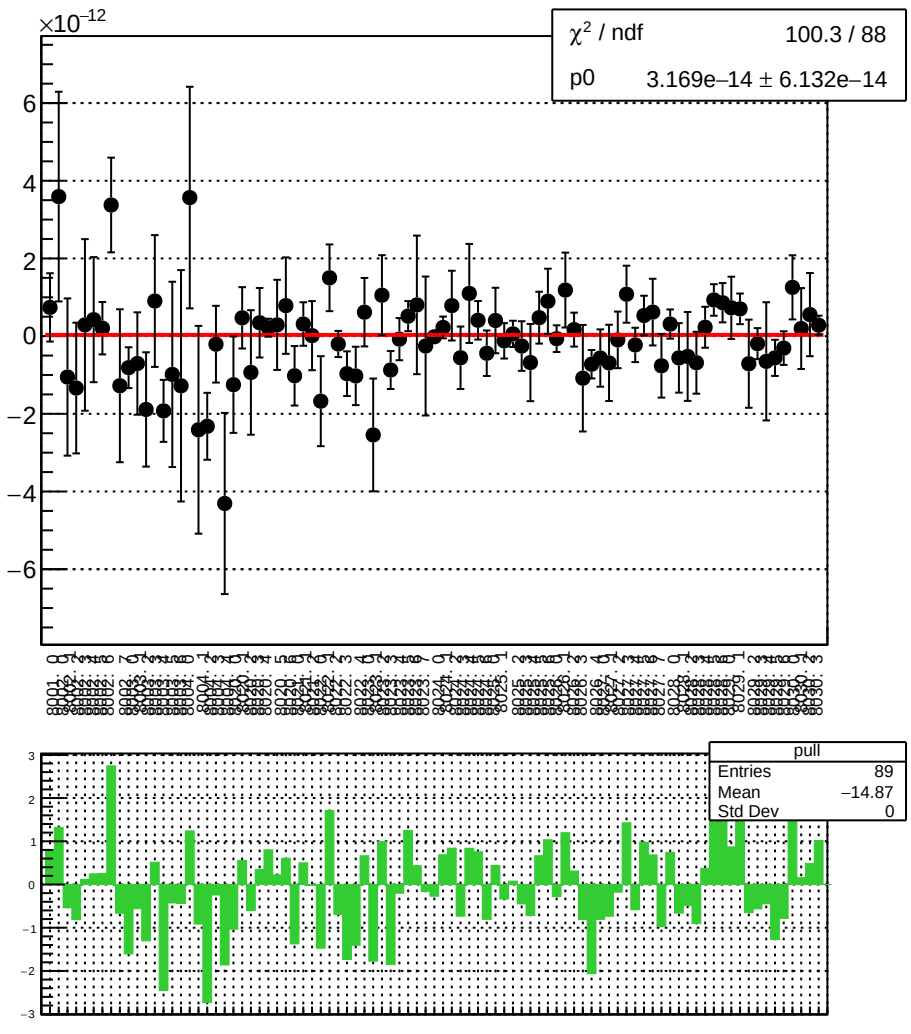

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.047e+04 / 88
p0 0.002724 ± 2.099e−06
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022

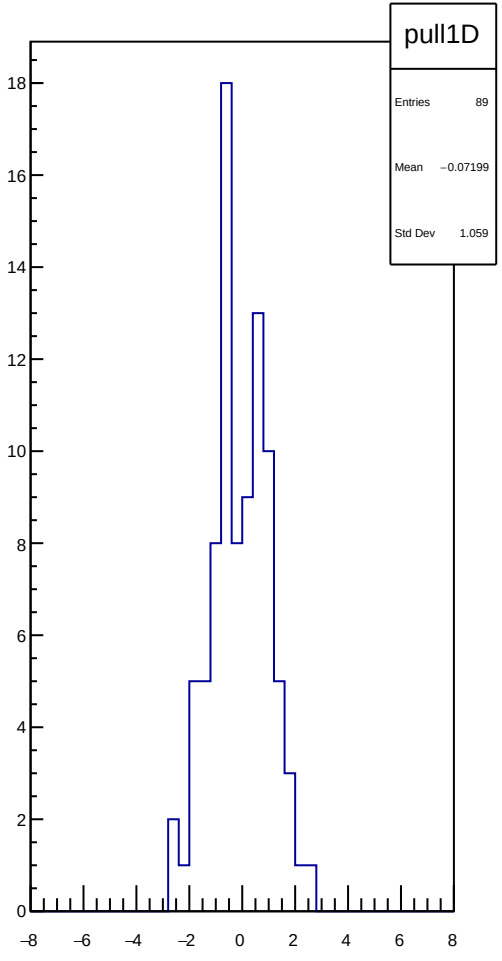

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 107.5 / 88
p0 −0.01258 ± 0.03177
pull
Entries 89
Mean 192.2
Std Dev 0
pull1D
Entries 89
Mean −0.009141
Std Dev 1.099

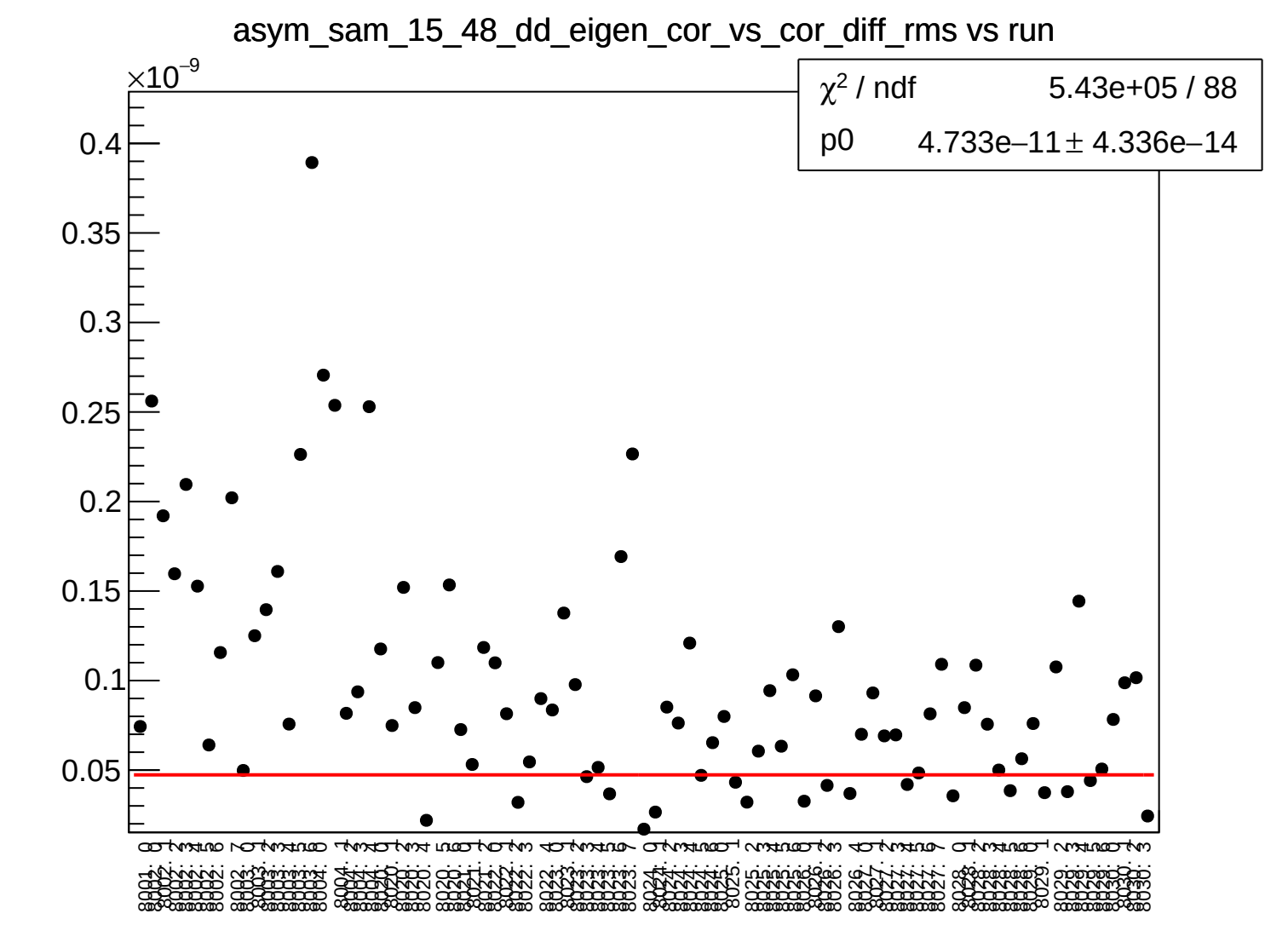

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.461e+05 / 88
p0 27.41 ± 0.02246
140
120
100
80
60
40
20

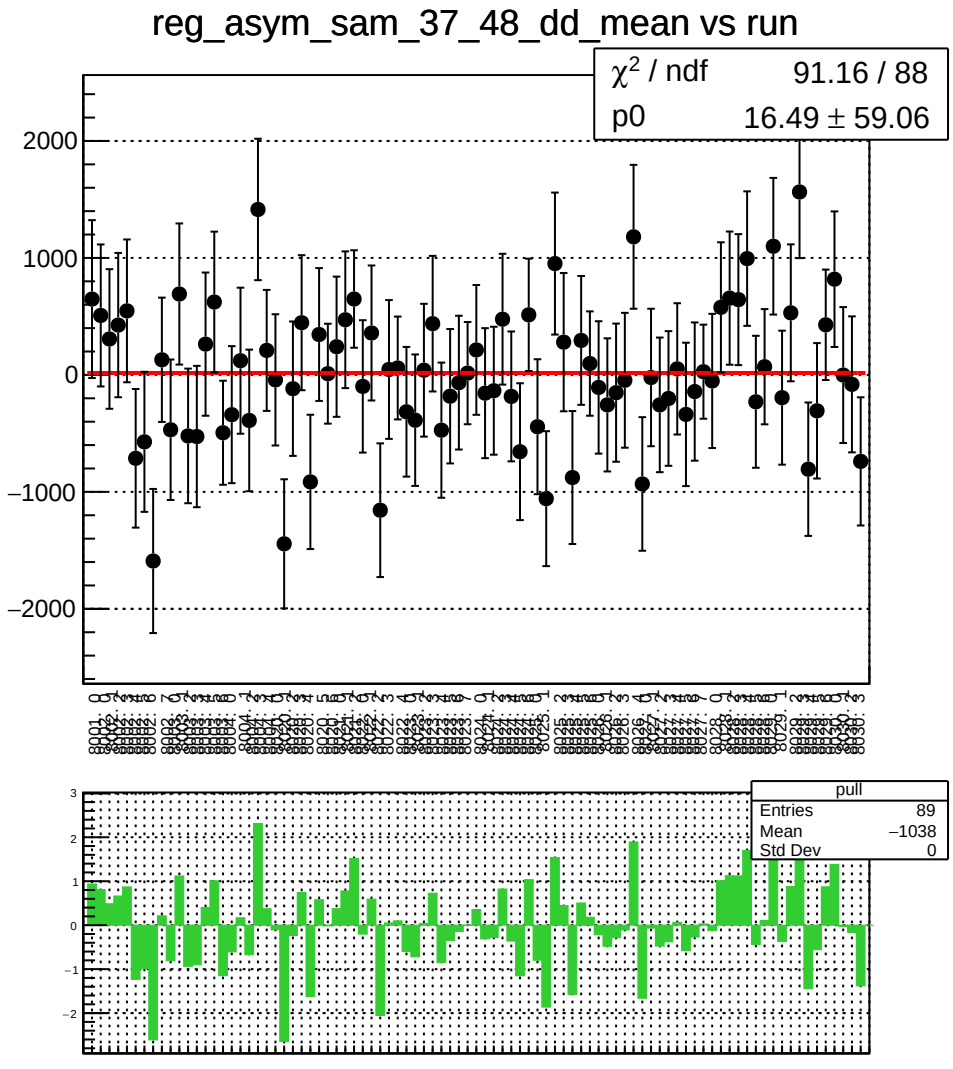

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.5 / 88
p0 −0.01258 ± 0.03177
pull
Entries 89
Mean 192.2
Std Dev 0
pull1D
Entries 89
Mean −0.009141
Std Dev 1.099

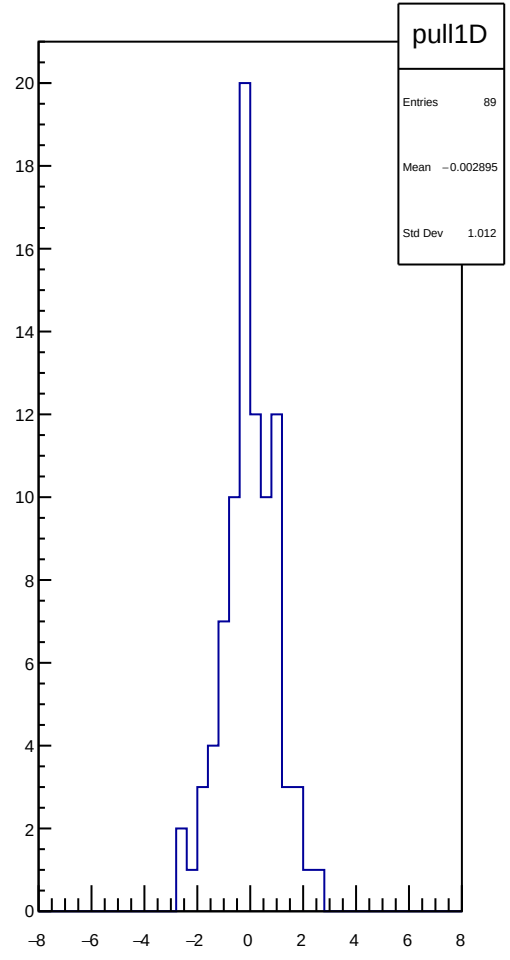

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.461e+05 / 88
p0 27.41 ± 0.02246
140
120
100
80
60
40
20

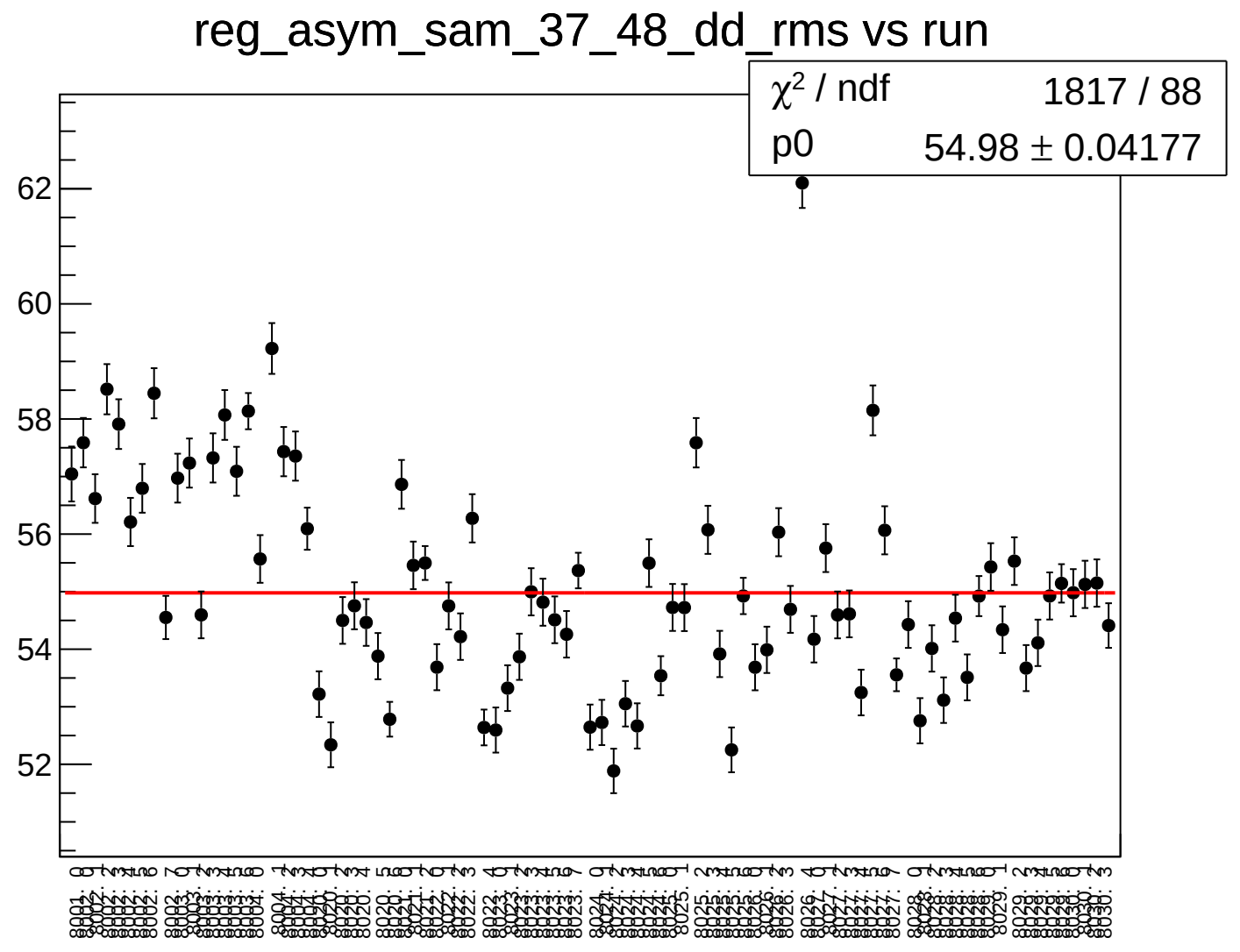

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 100.3 / 88
p0 3.169e−14 ± 6.132e−14
pull
Entries 89
Mean −14.87
Std Dev 0

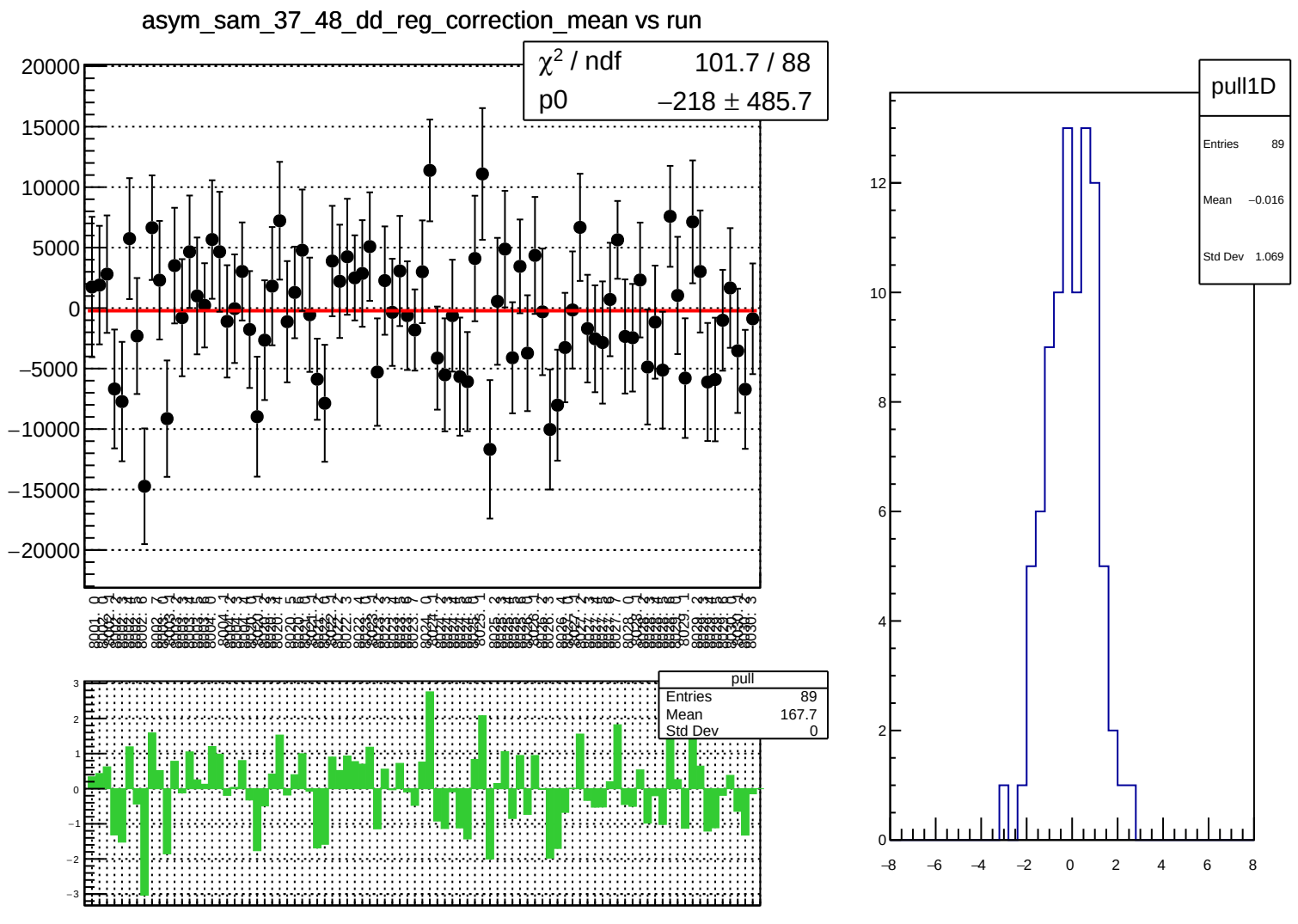

pull1D
Entries 89
Mean −0.07199
Std Dev 1.059

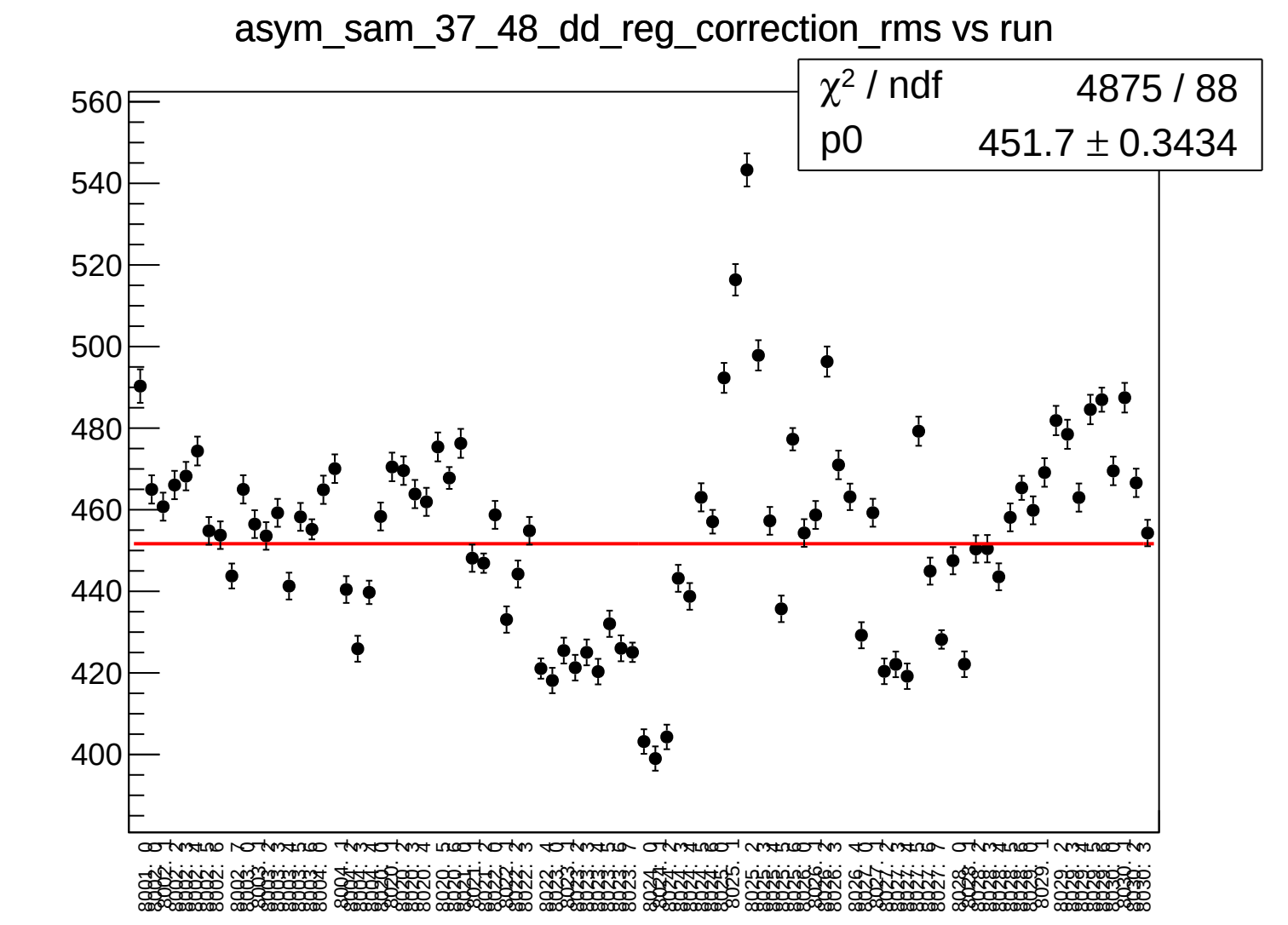

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.43e+05 / 88
p0 4.733e−11 ± 4.336e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

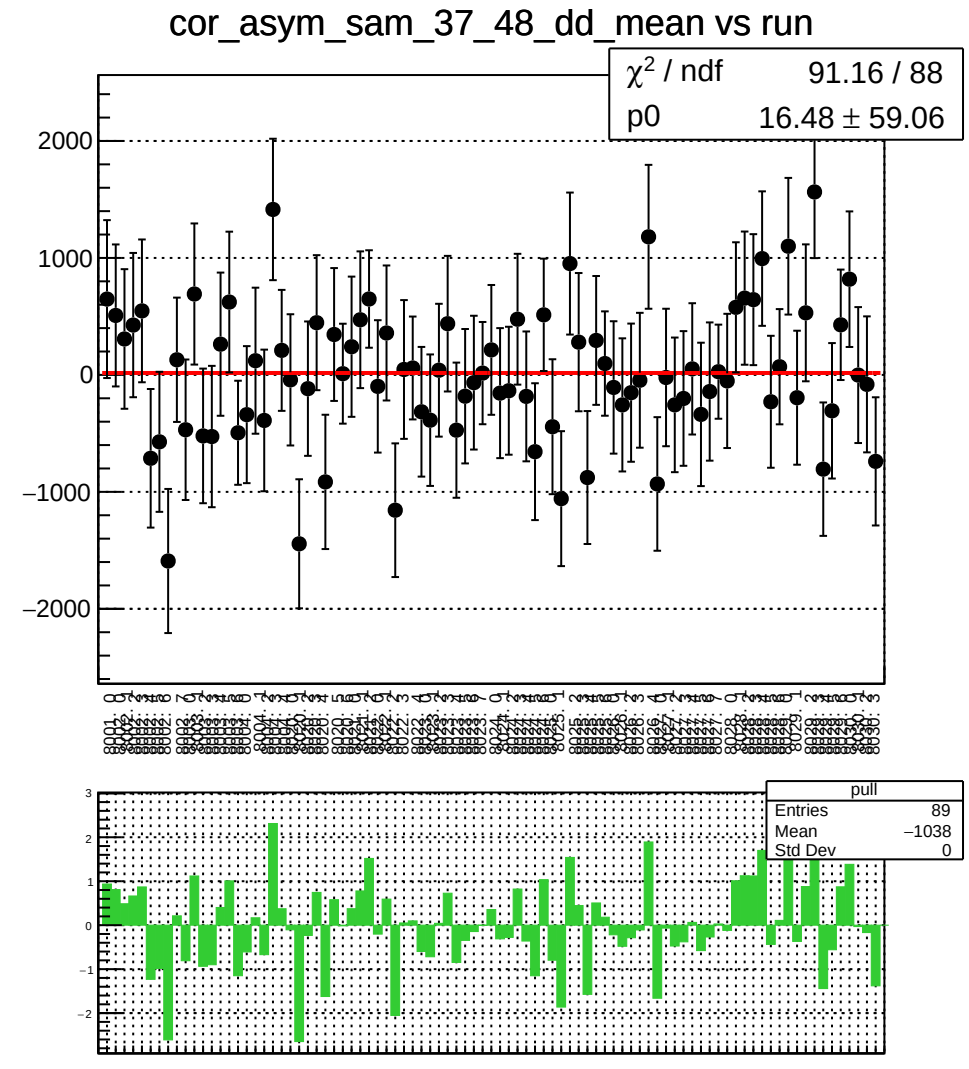

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 91.16 / 88
p0 16.49 ± 59.06
2000
1000
0
−1000
−2000
pull
Entries 89
Mean −1038
Std Dev 0
3
2
1
0
−1
−2

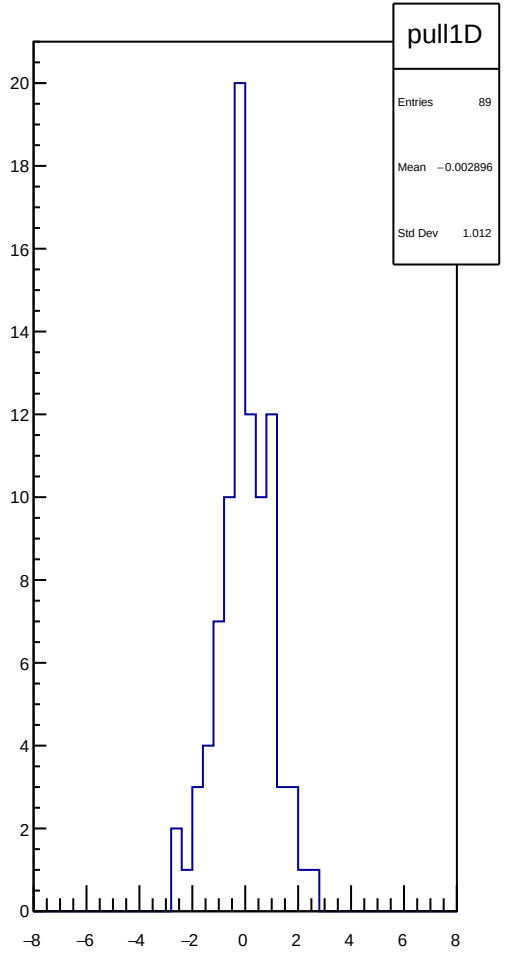

pull1D
Entries 89
Mean −0.002895
Std Dev 1.012
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

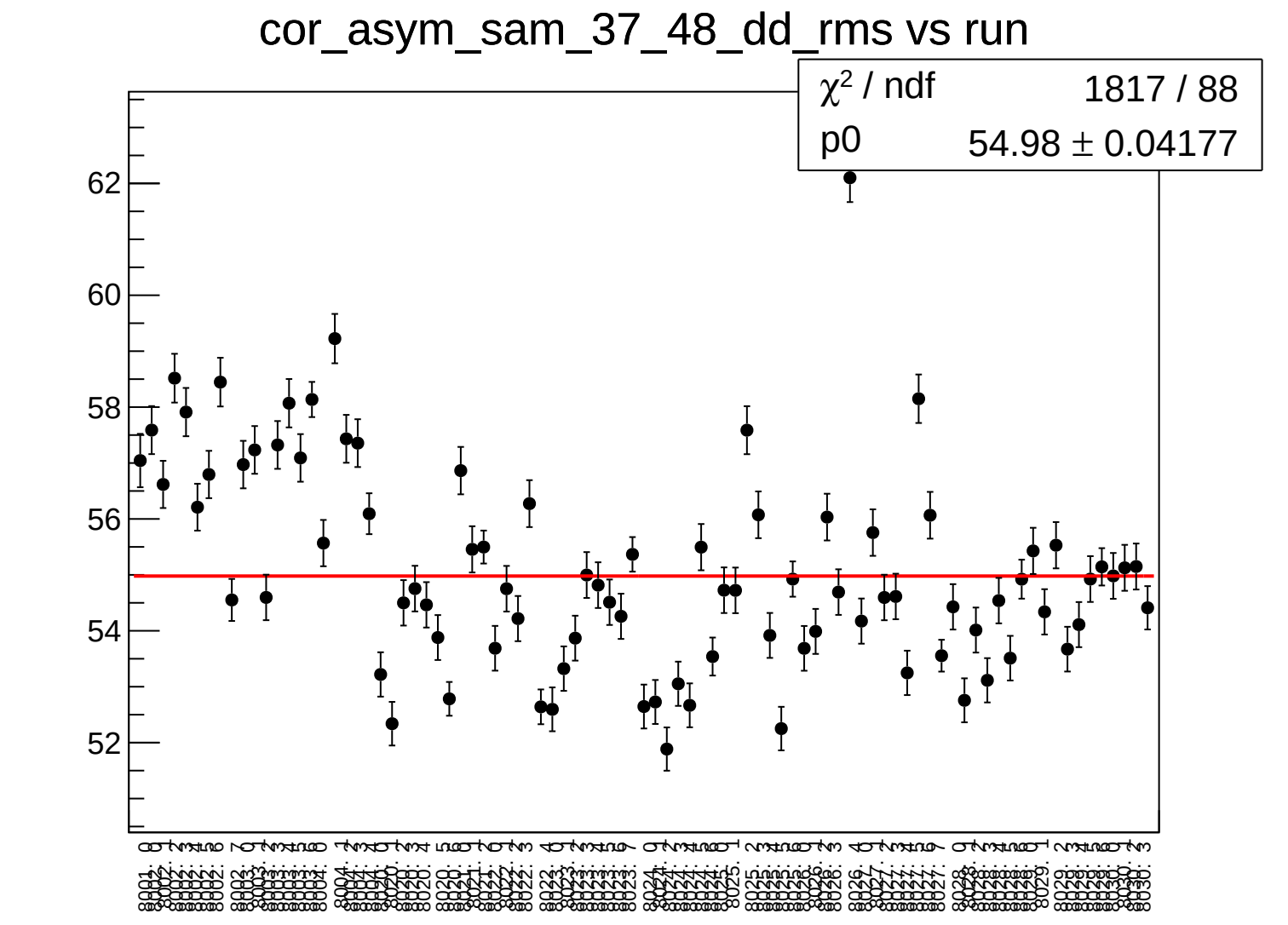

reg_asym_sam_37_48_dd_rms vs run
χ² / ndf 1817 / 88
p0 54.98 ± 0.04177
62
60
58
56
54
52

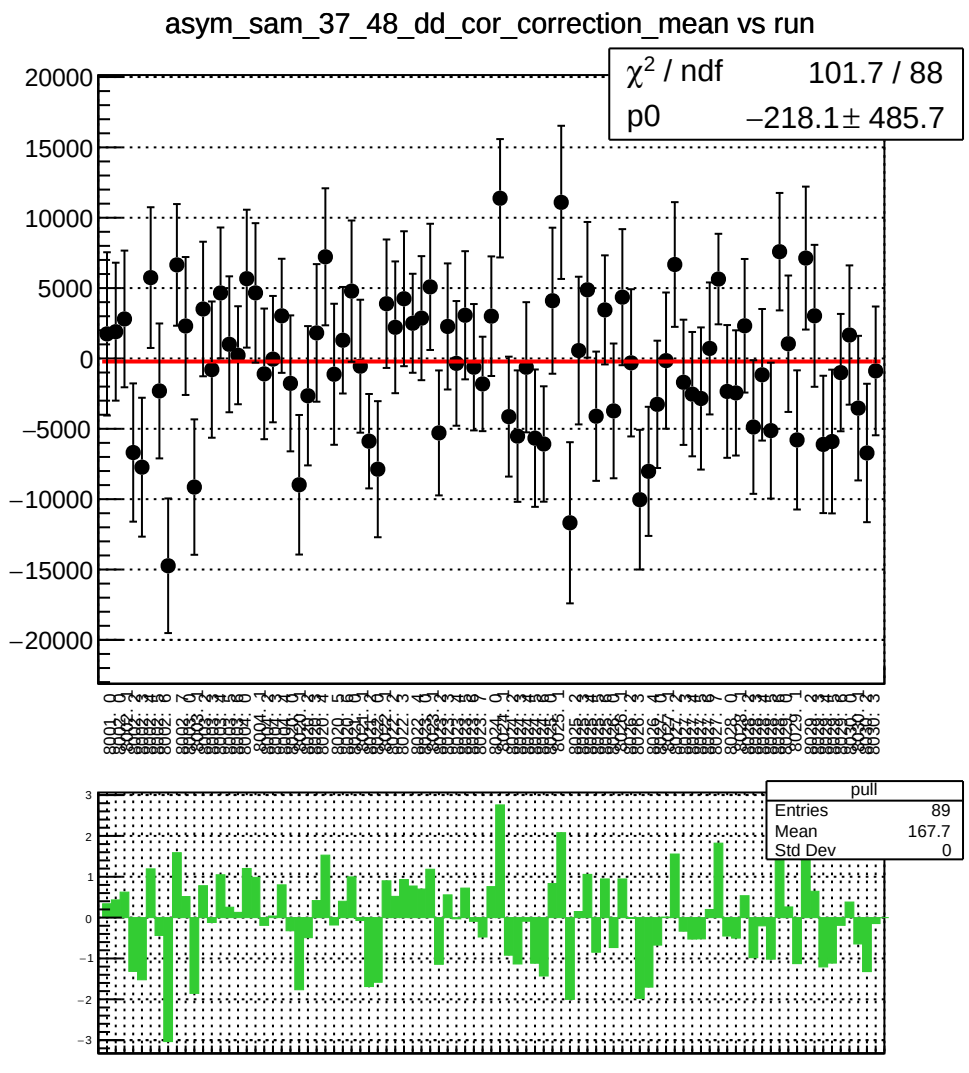

asym_sam_37_48_dd_reg_correction_mean vs run
χ² / ndf 101.7 / 88
p0 −218 ± 485.7
pull
Entries 89
Mean 167.7
Std Dev 0
pull1D
Entries 89
Mean −0.016
Std Dev 1.069

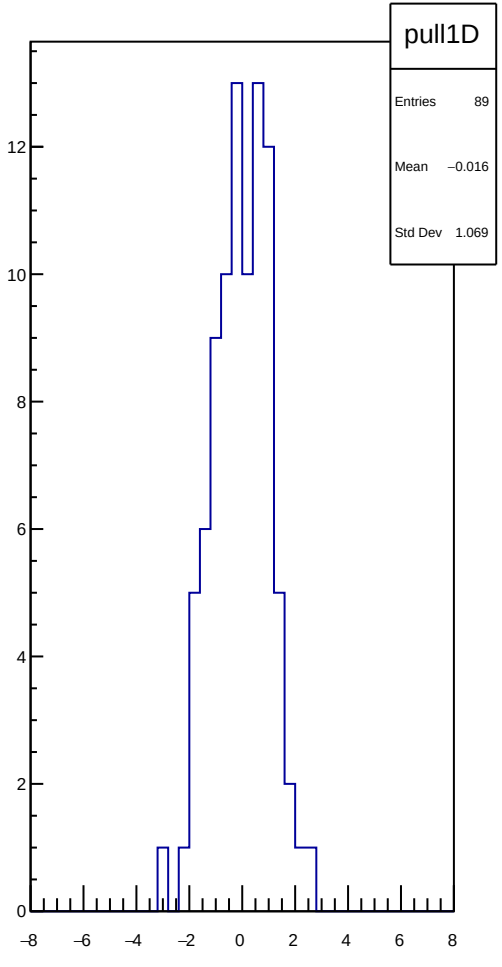

asym_sam_37_48_dd_reg_correction_rms vs run
χ² / ndf 4875 / 88
p0 451.7 ± 0.3434
560
540
520
500
480
460
440
420
400

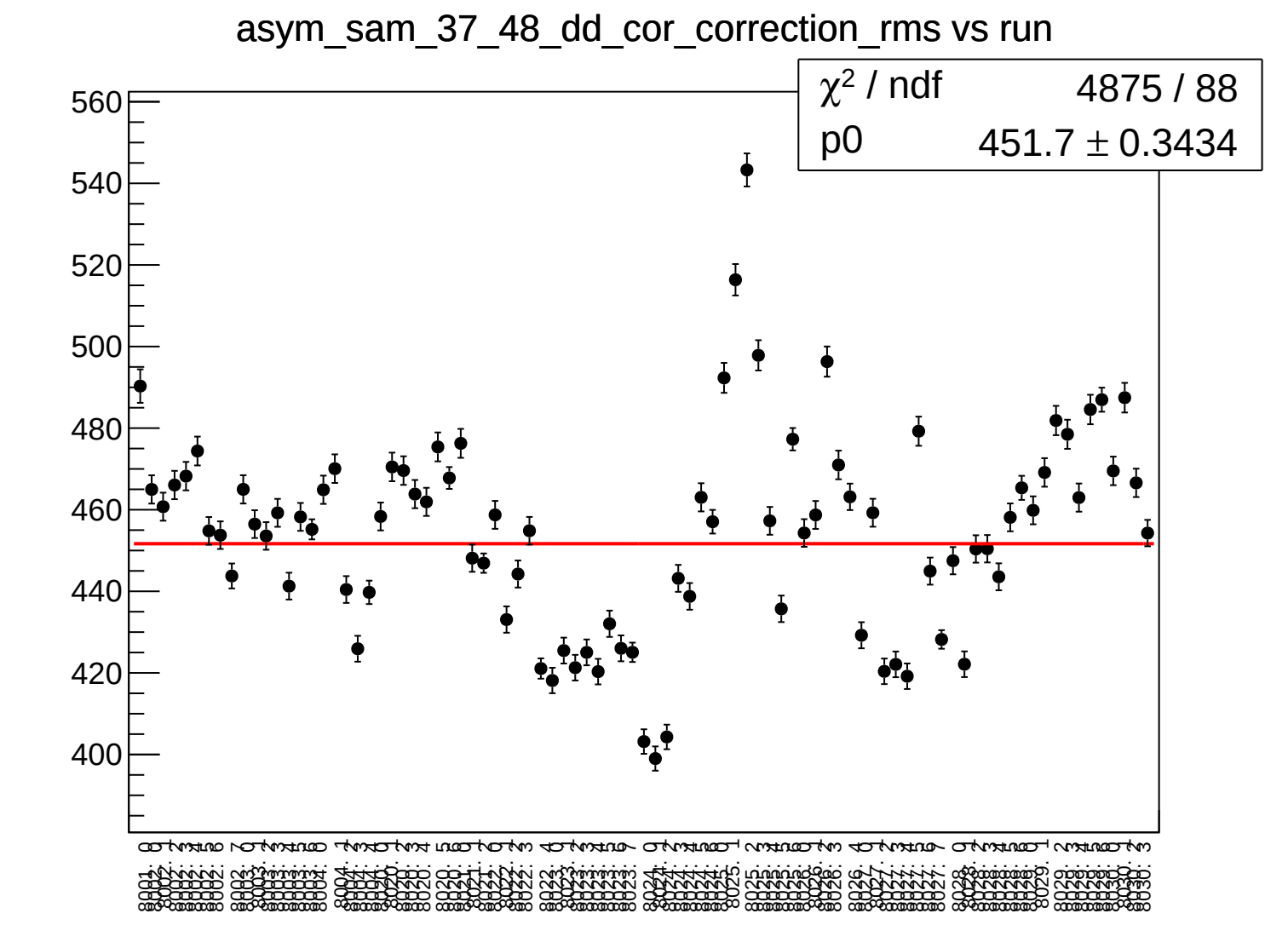

cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 91.16 / 88
p0 16.48 ± 59.06
2000
1000
0
−1000
−2000
pull
Entries 89
Mean −1038
Std Dev 0
3
2
1
0
−1
−2

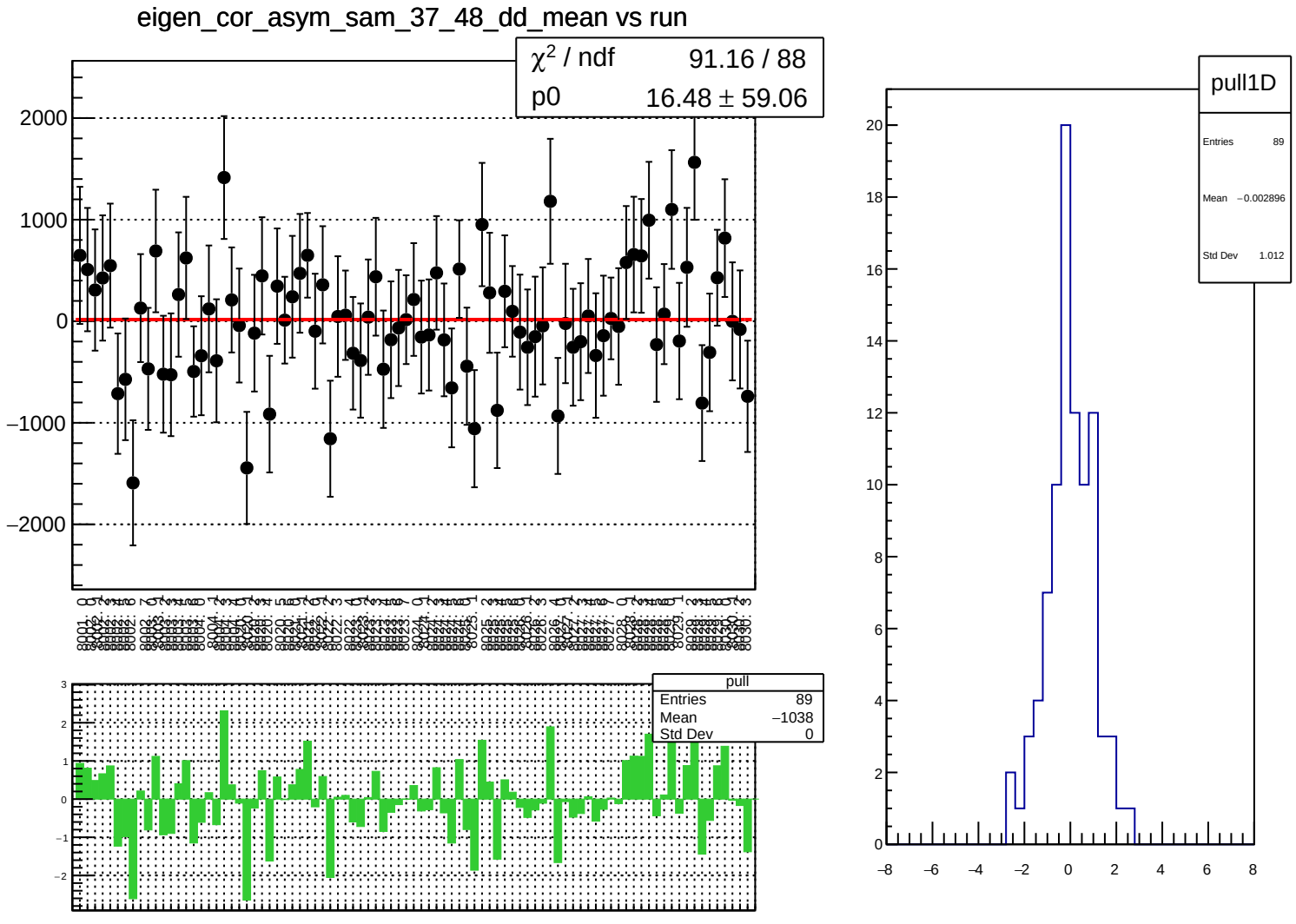

pull1D
Entries 89
Mean −0.002896
Std Dev 1.012
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

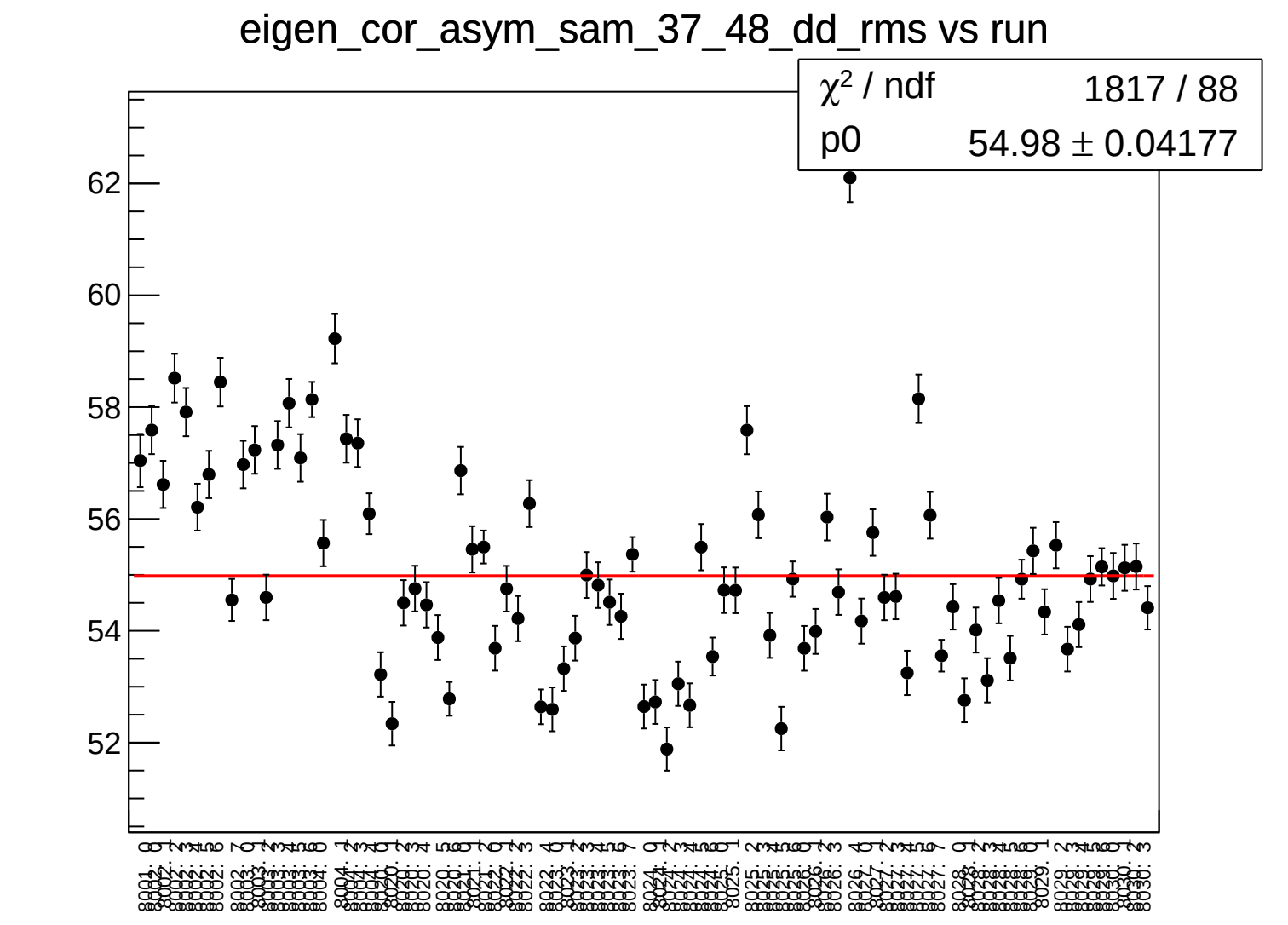

cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 1817 / 88
p0 54.98 ± 0.04177
62
60
58
56
54
52

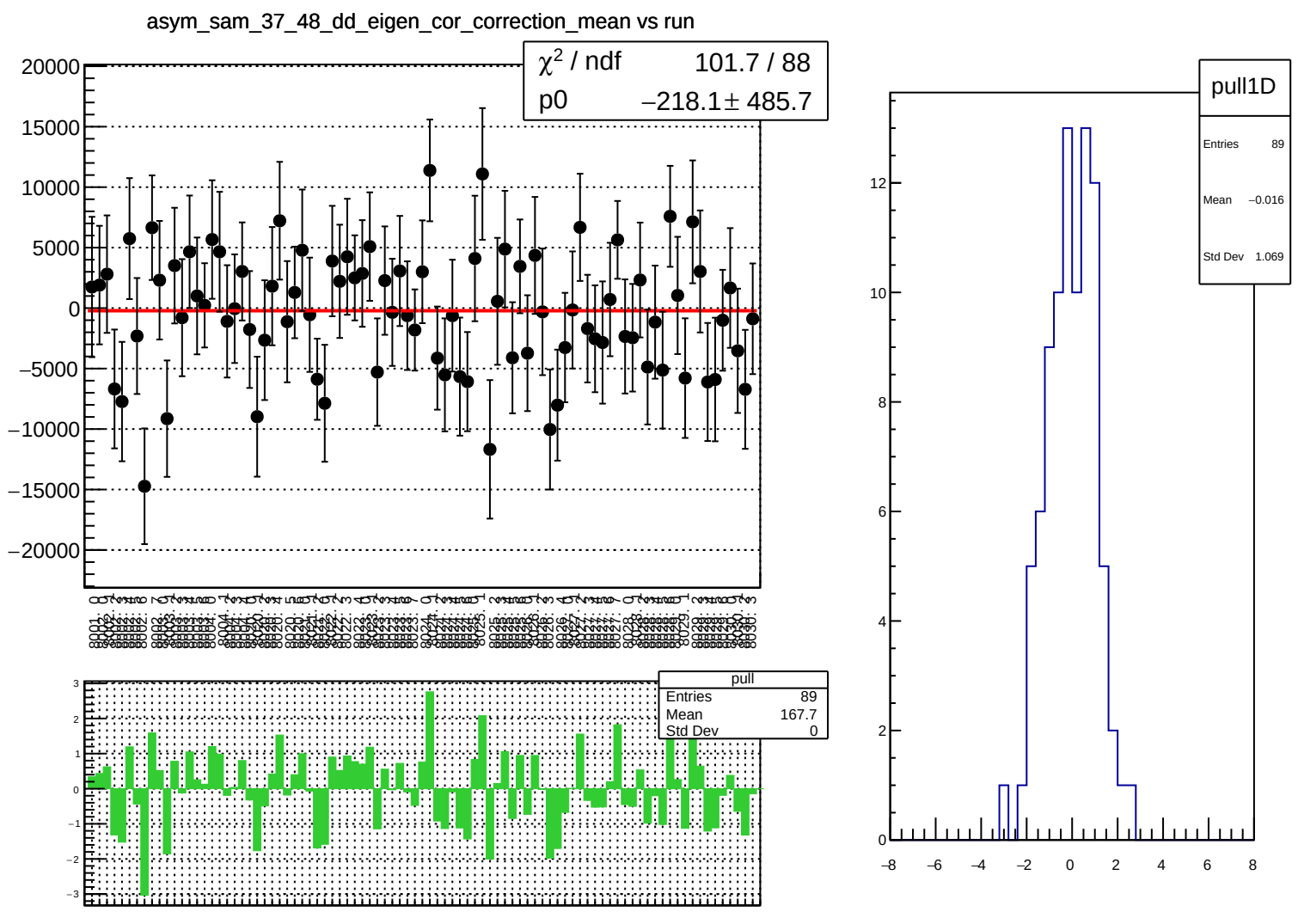

asym_sam_37_48_dd_cor_correction_mean vs run
χ² / ndf 101.7 / 88
p0 −218.1± 485.7
pull
Entries 89
Mean 167.7
Std Dev 0

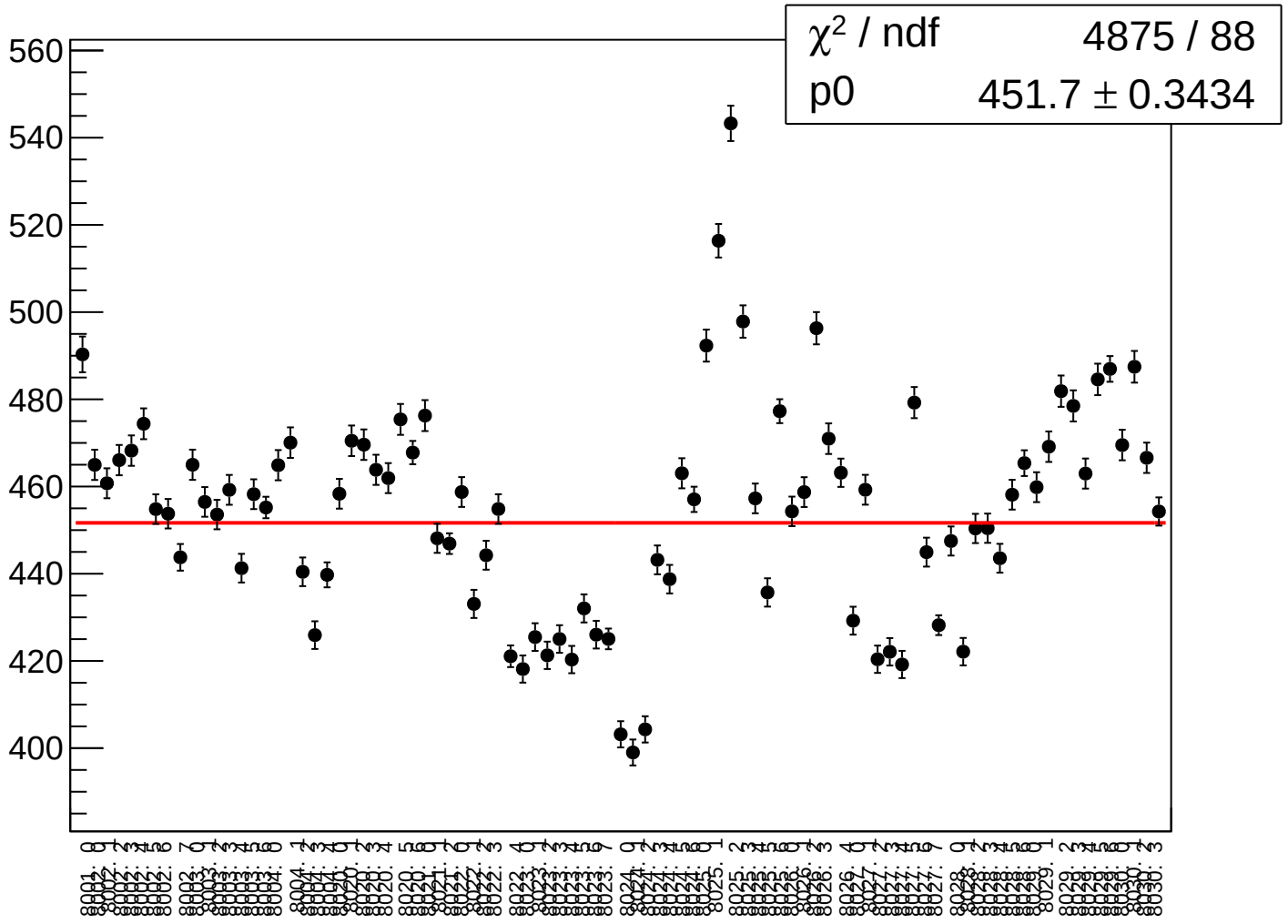

pull1D
Entries 89
Mean −0.016
Std Dev 1.069

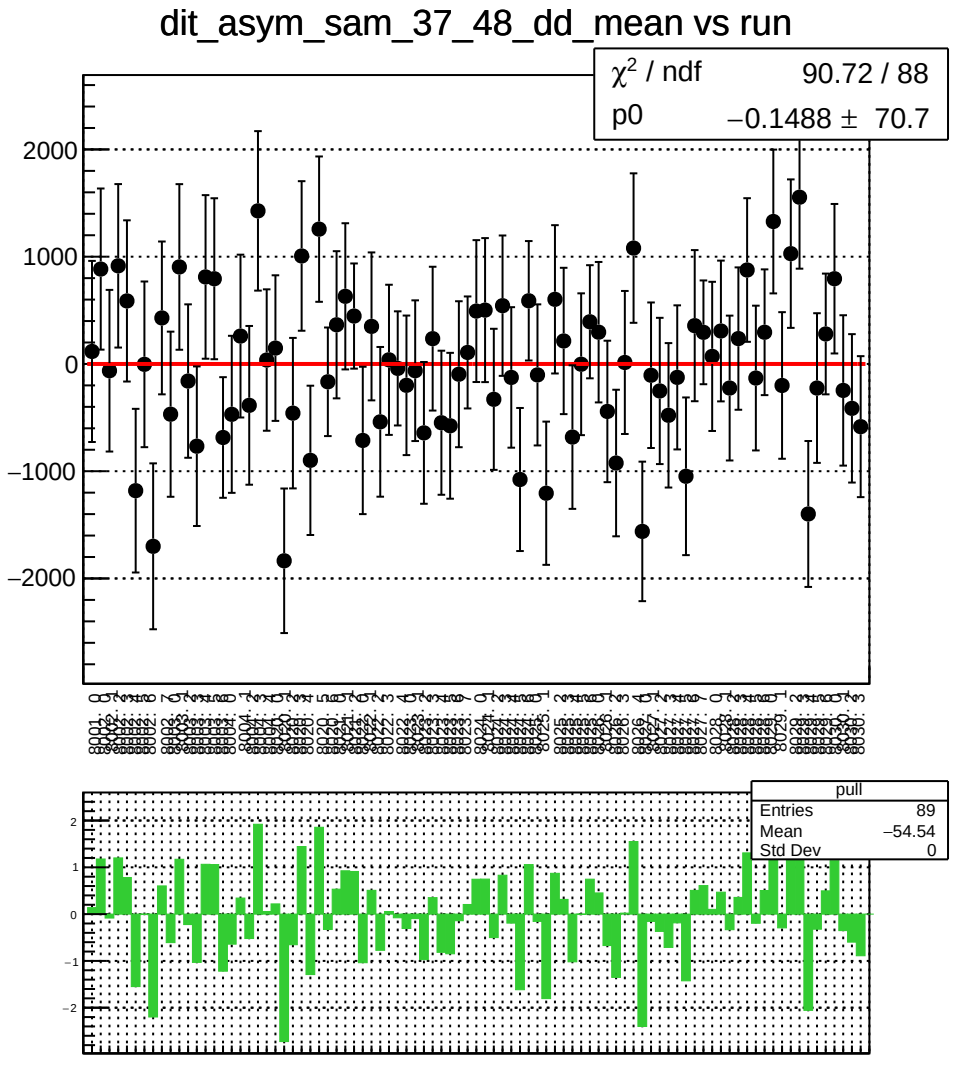

asym_sam_37_48_dd_cor_correction_rms vs run
χ² / ndf 4875 / 88
p0 451.7 ± 0.3434
560
540
520
500
480
460
440
420
400

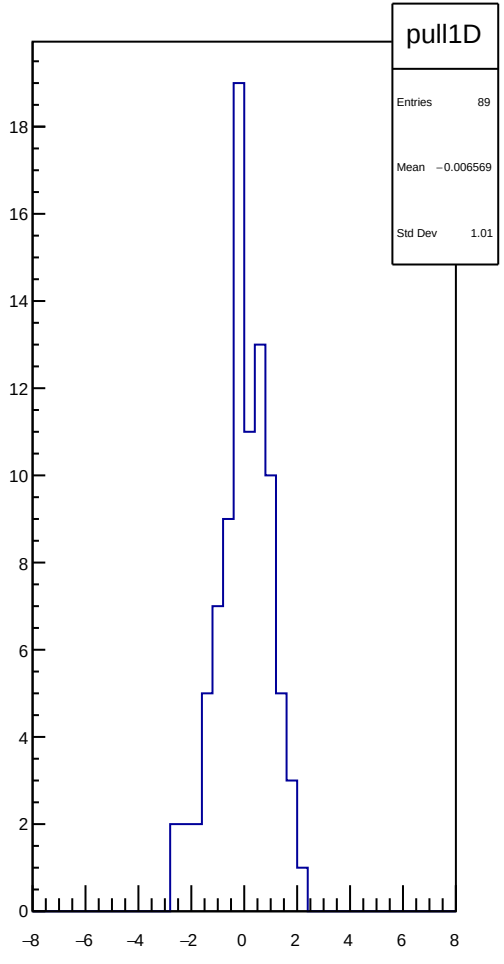

eigen_cor_asym_sam_37_48_dd_mean vs run
χ^2 / ndf 91.16 / 88
p0 16.48 ± 59.06
2000
1000
0
−1000
−2000
pull
Entries 89
Mean −1038
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.002896
Std Dev 1.012
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

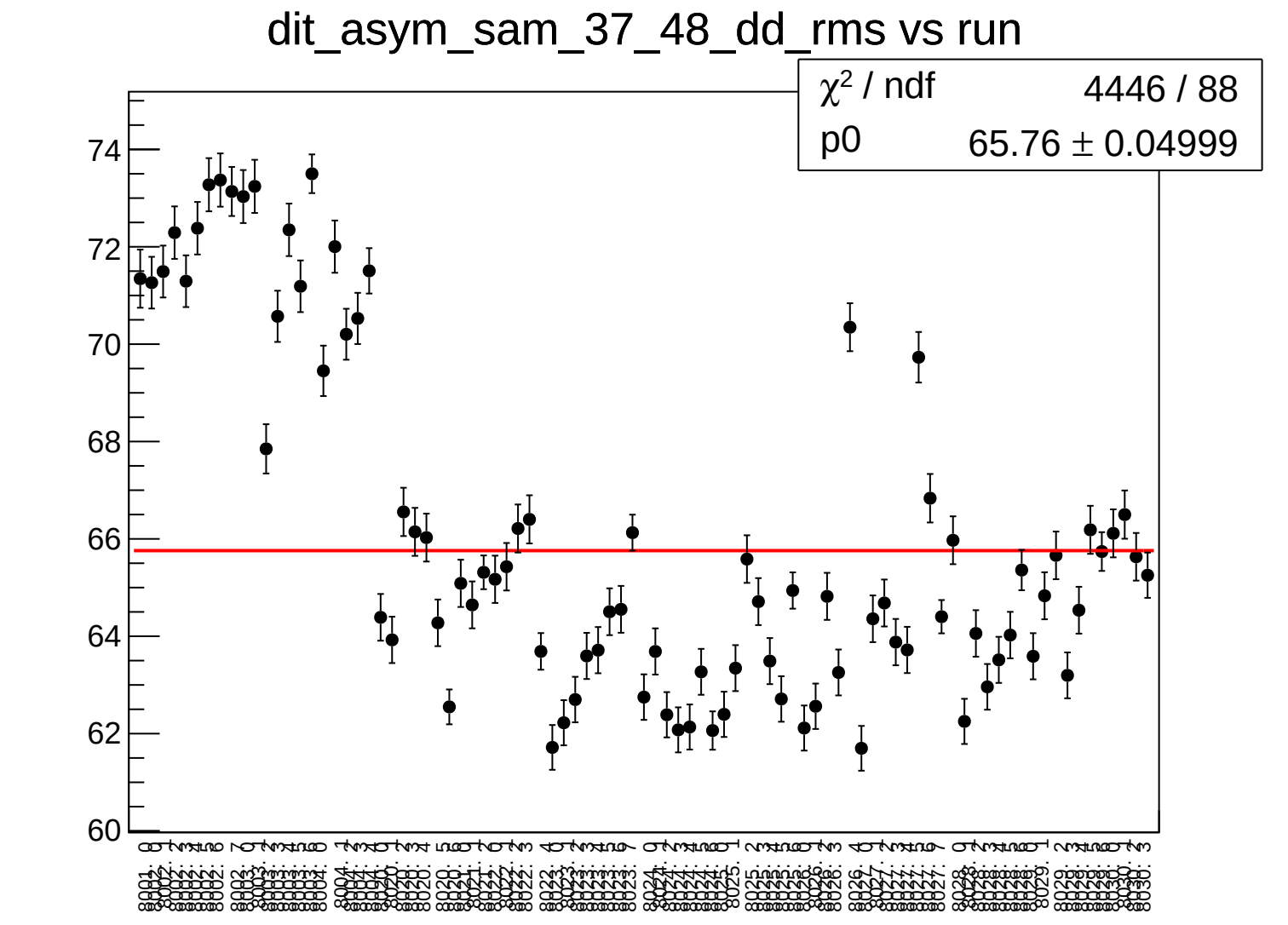

eigen_cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 1817 / 88
p0 54.98 ± 0.04177
62
60
58
56
54
52

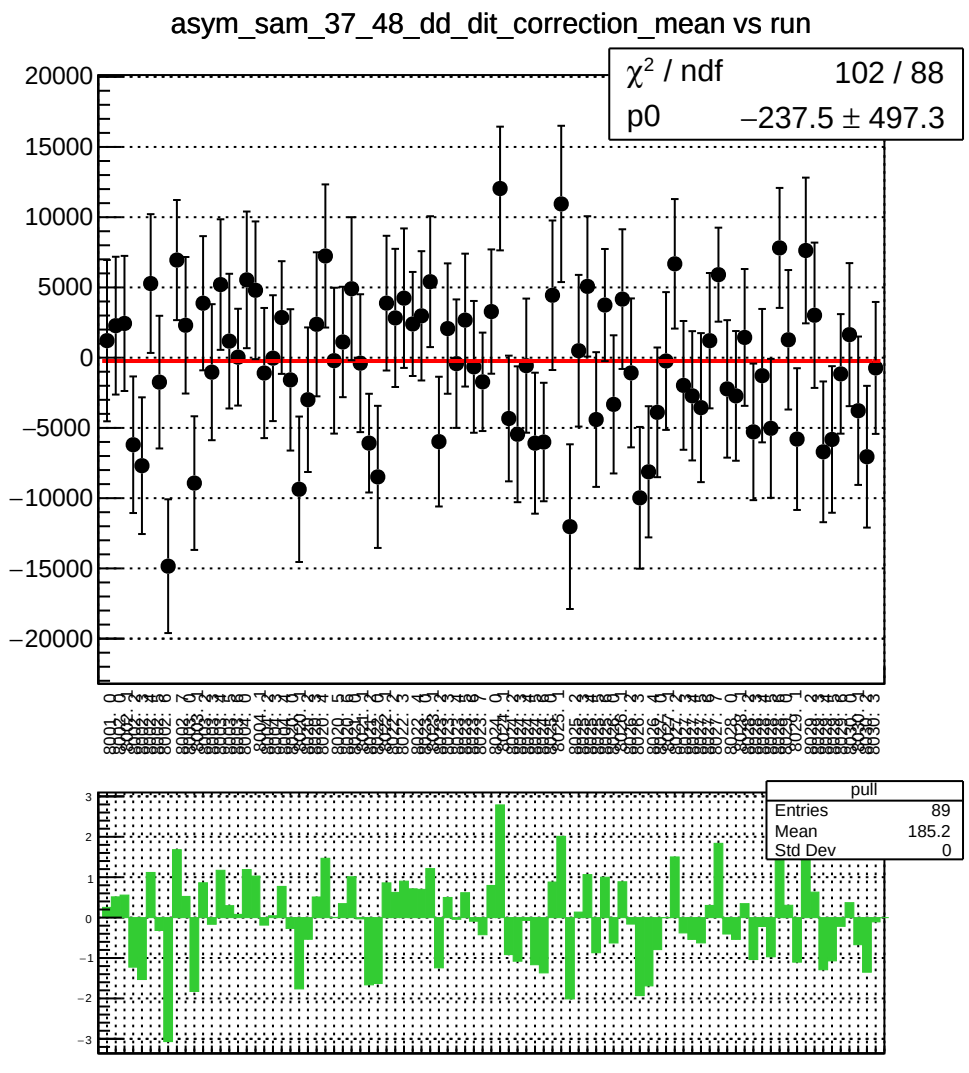

asym_sam_37_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 101.7 / 88
p0 −218.1± 485.7
pull
Entries 89
Mean 167.7
Std Dev 0
pull1D
Entries 89
Mean −0.016
Std Dev 1.069

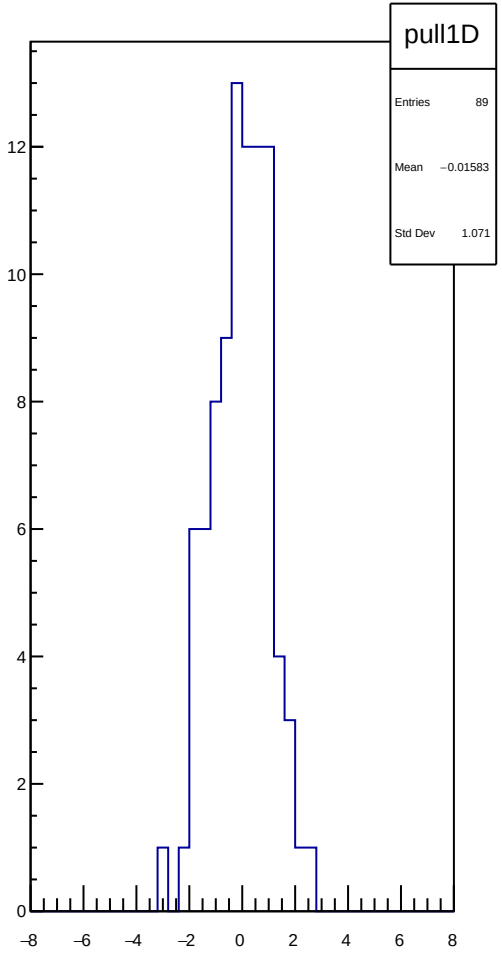

asym_sam_37_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 4875 / 88
p0 451.7 ± 0.3434
560
540
520
500
480
460
440
420
400

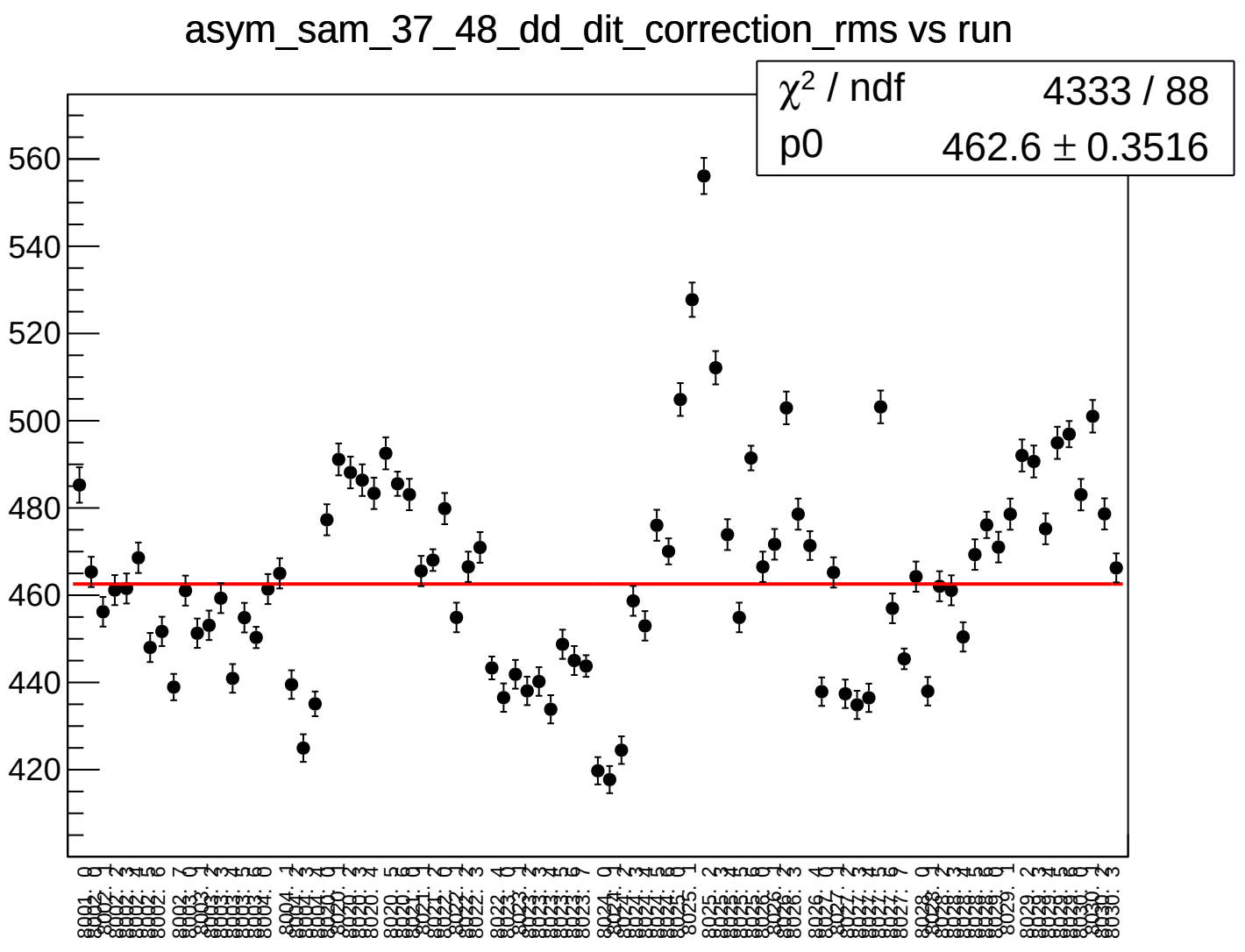

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 90.72 / 88
p0 −0.1488 ± 70.7
2000
1000
0
−1000
−2000
pull
Entries 89
Mean −54.54
Std Dev 0
2
1
0
−1

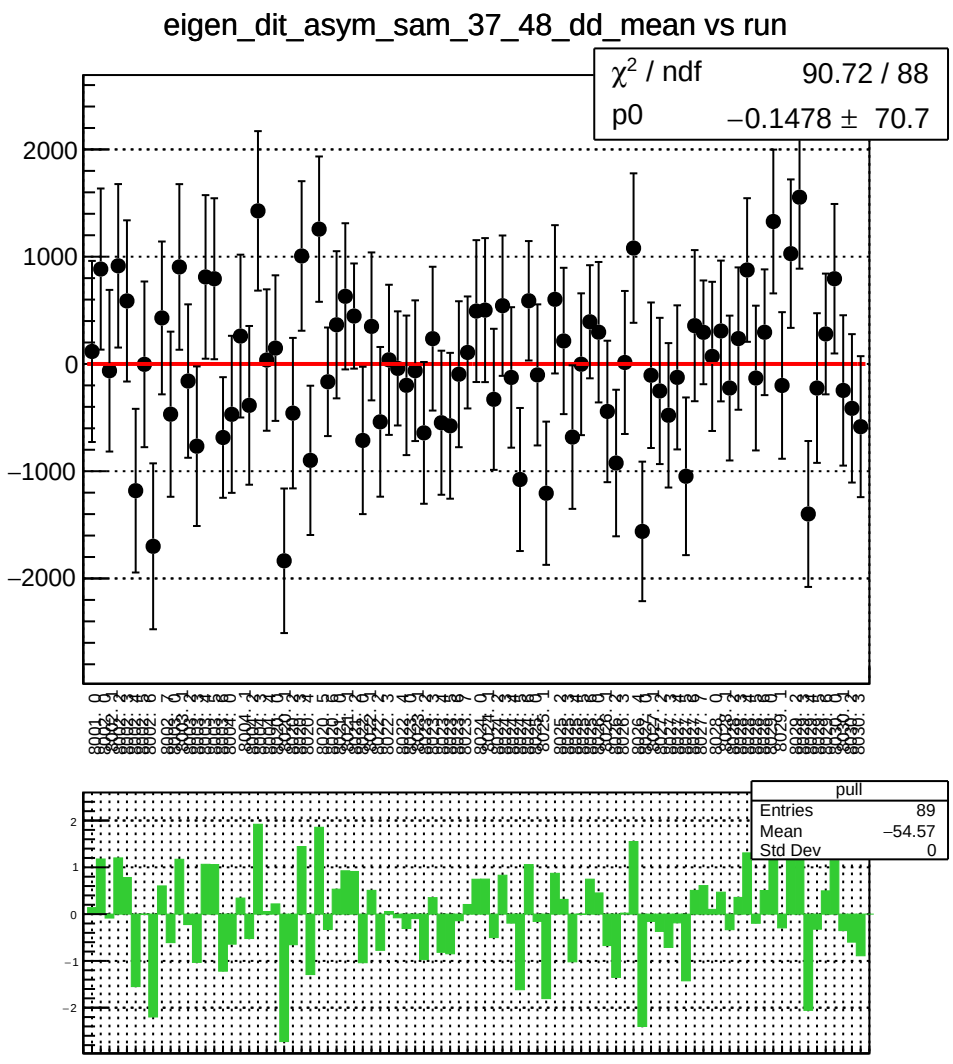

pull1D
Entries 89
Mean −0.006569
Std Dev 1.01
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

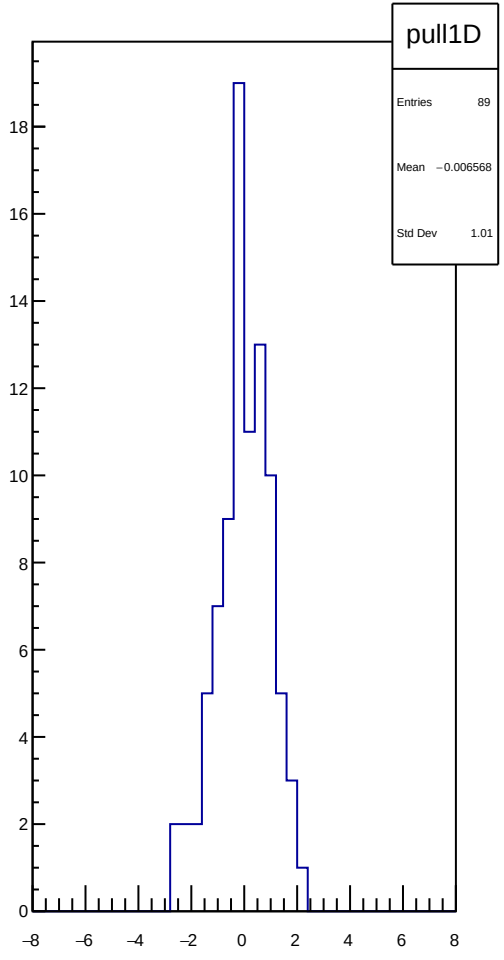

dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 4446 / 88
p0 65.76 ± 0.04999
74
72
70
68
66
64
62
60

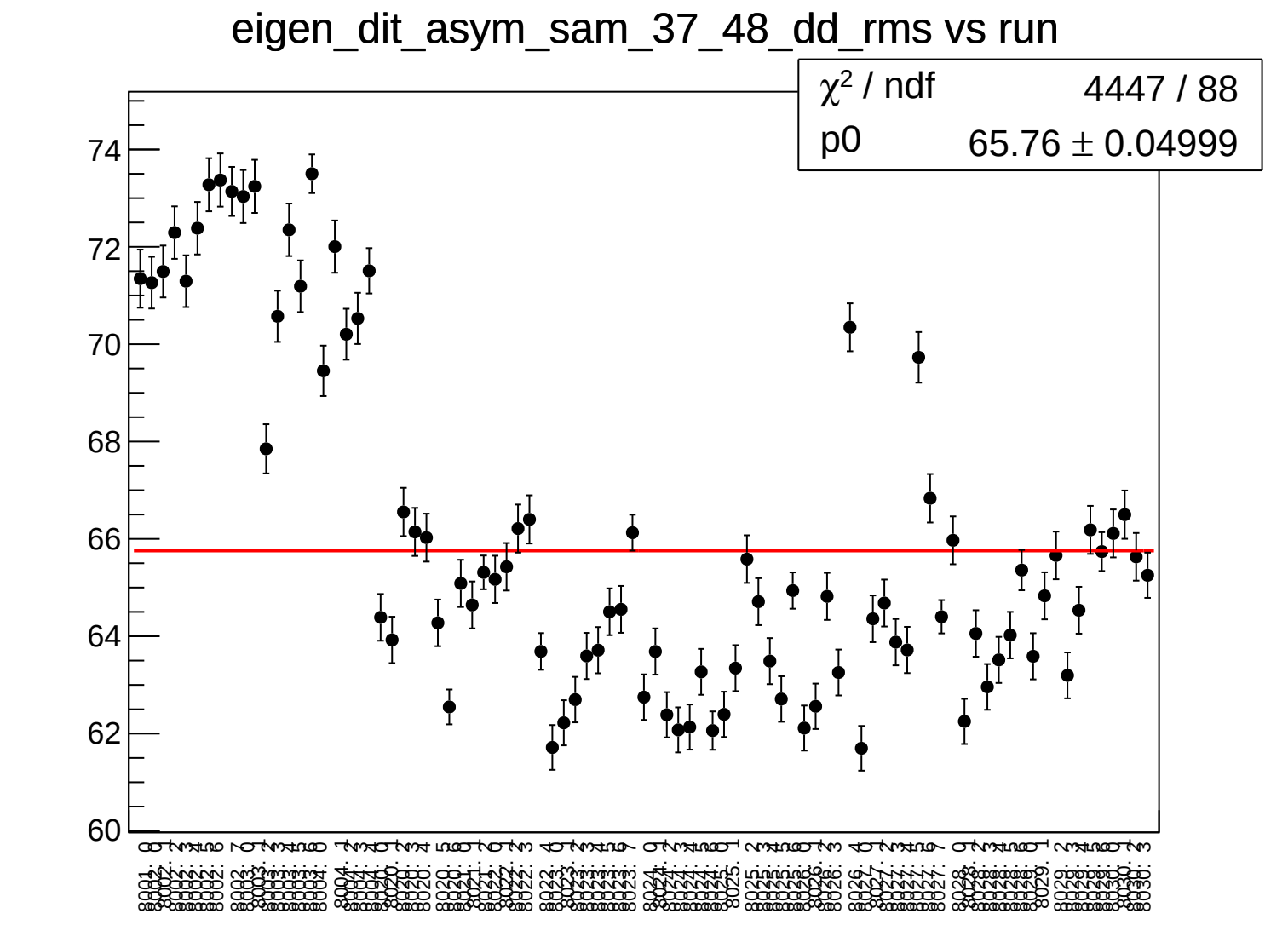

asym_sam_37_48_dd_dit_correction_mean vs run
χ² / ndf 102 / 88
p0 −237.5 ± 497.3
pull
Entries 89
Mean 185.2
Std Dev 0

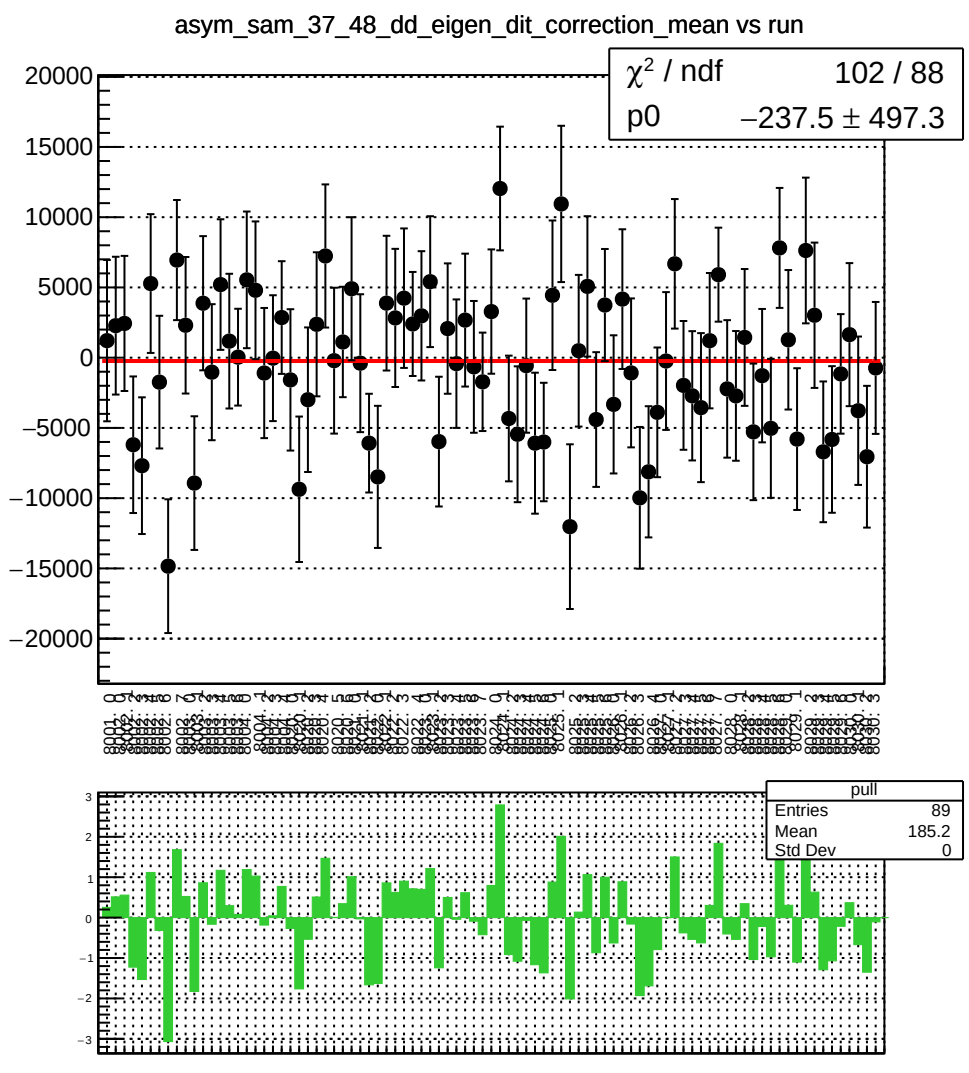

pull1D
Entries 89
Mean −0.01583
Std Dev 1.071

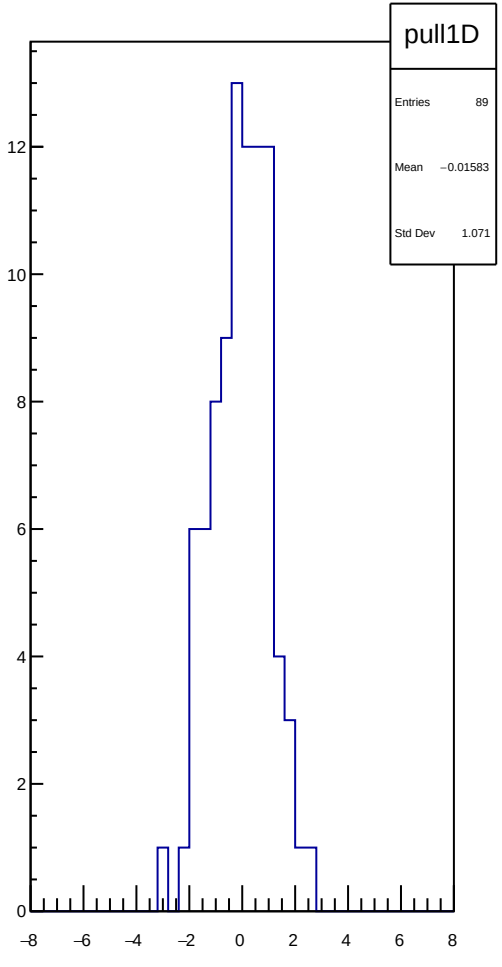

asym_sam_37_48_dd_dit_correction_rms vs run
χ² / ndf 4333 / 88
p0 462.6 ± 0.3516
560
540
520
500
480
460
440
420

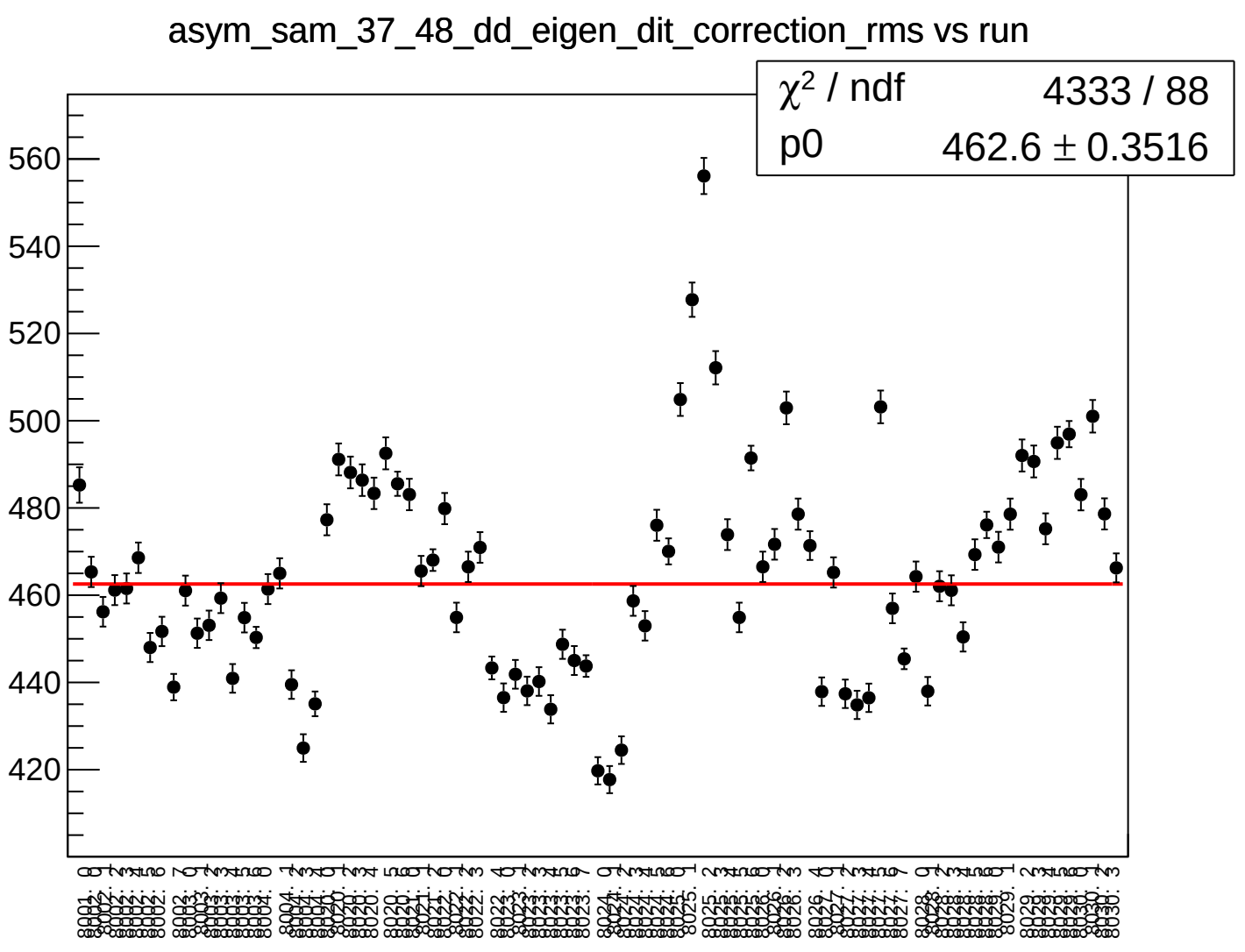

eigen_dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 90.72 / 88
p0 −0.1478 ± 70.7
2000
1000
0
−1000
−2000
pull
Entries 89
Mean −54.57
Std Dev 0
2
1
0
−1
−2

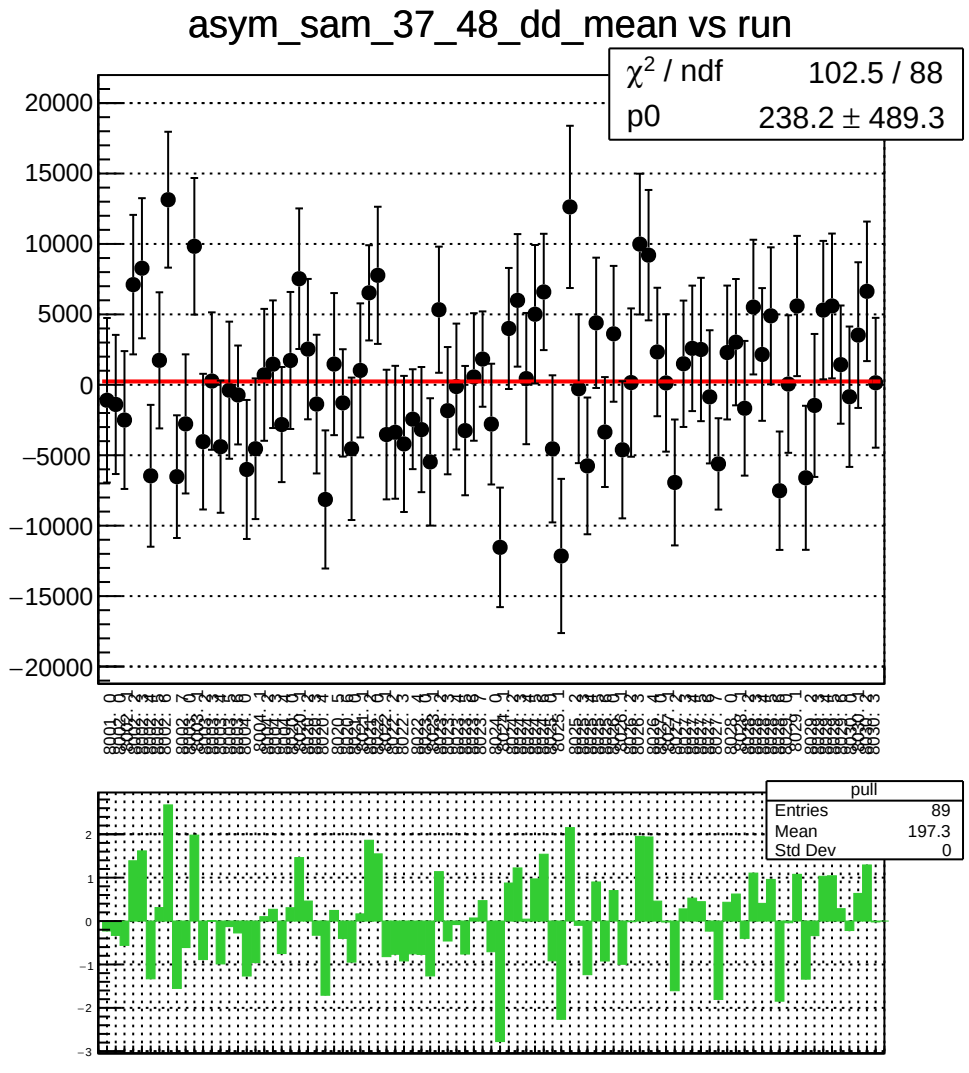

pull1D
Entries 89
Mean −0.006568
Std Dev 1.01
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

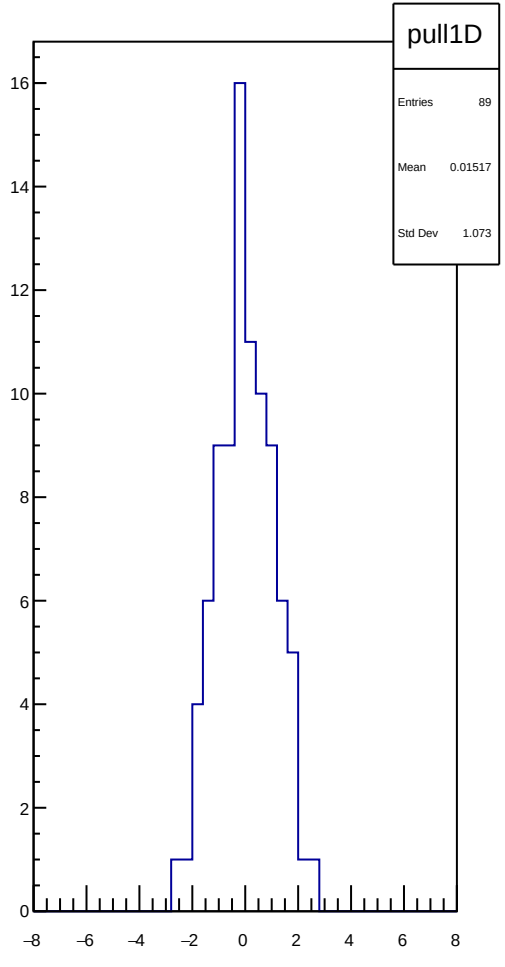

eigen_dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 4447 / 88
p0 65.76 ± 0.04999
74
72
70
68
66
64
62
60

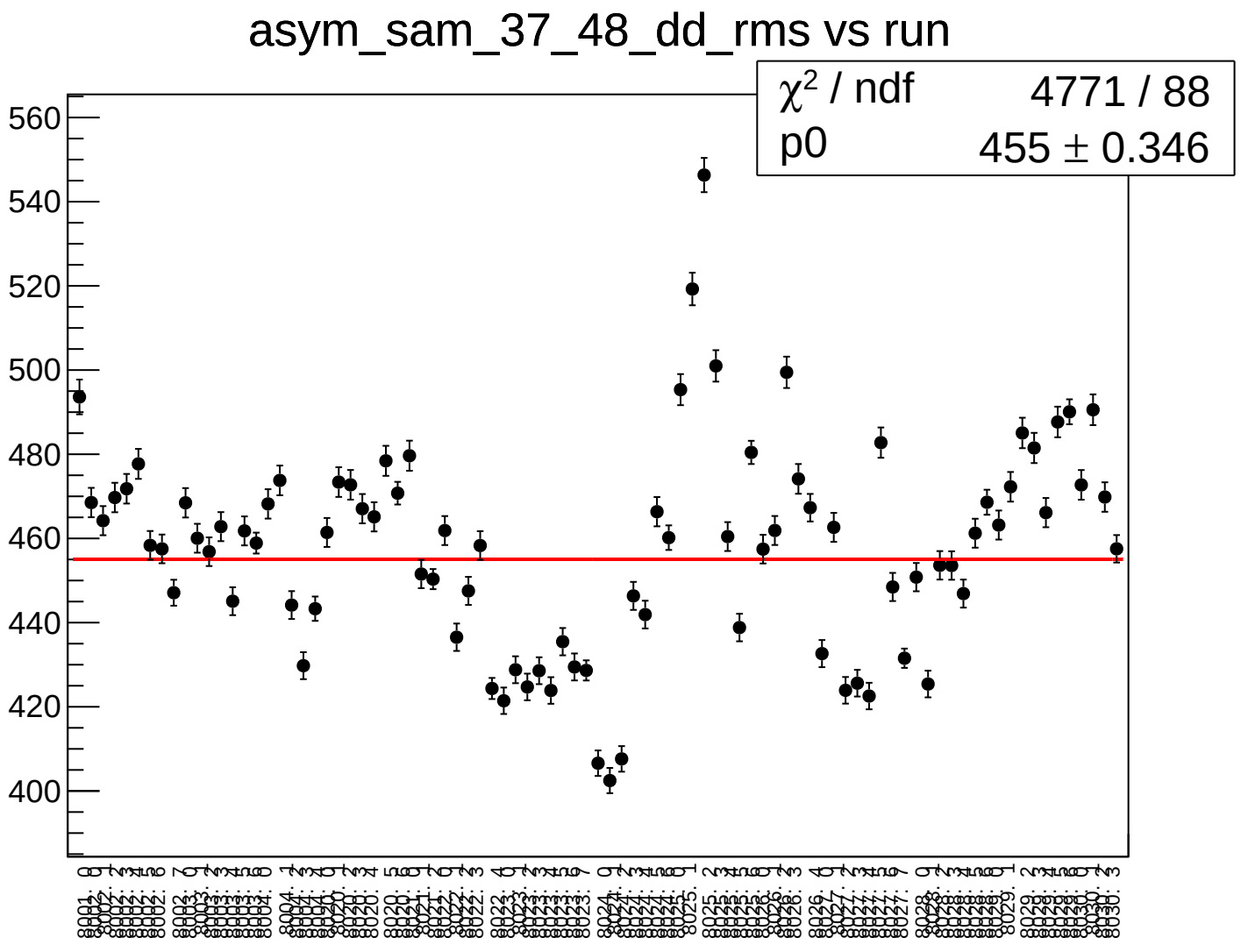

asym_sam_37_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 102 / 88
p0 −237.5 ± 497.3
pull
Entries 89
Mean 185.2
Std Dev 0

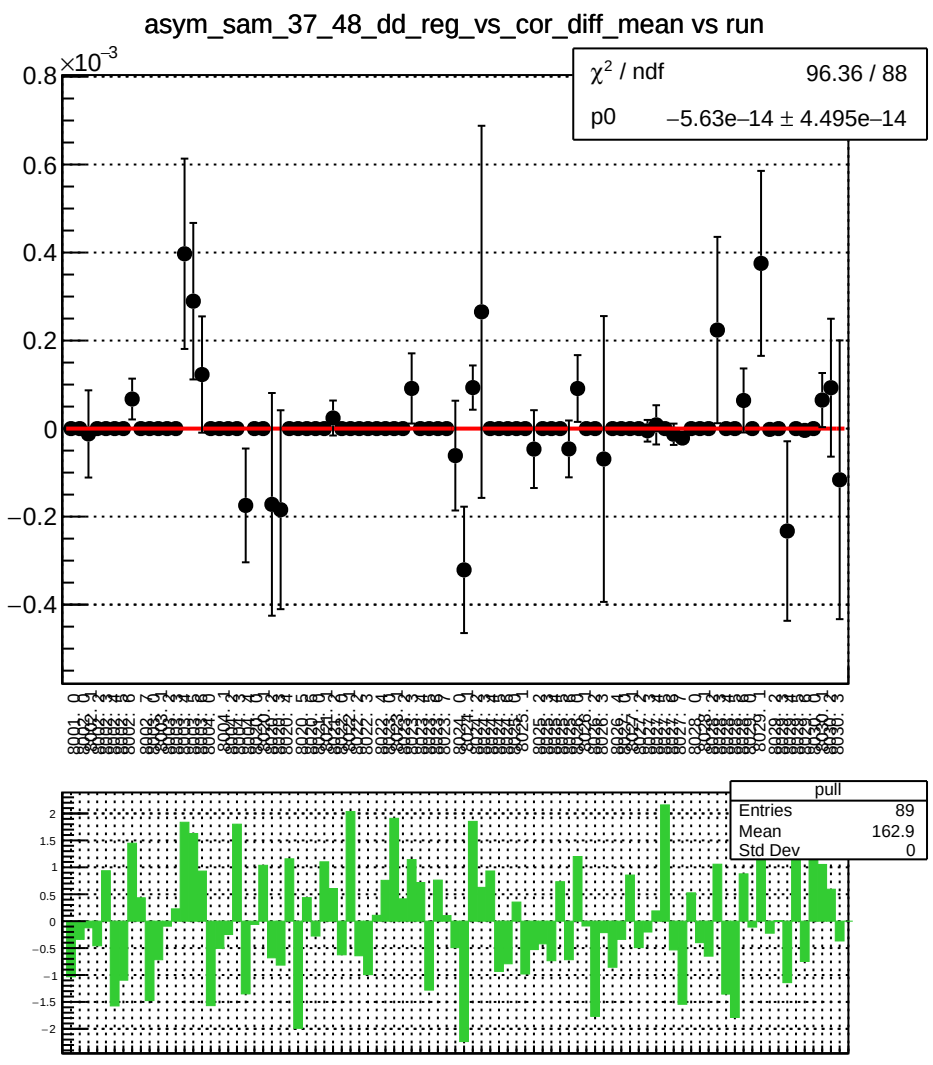

pull1D
Entries 89
Mean −0.01583
Std Dev 1.071

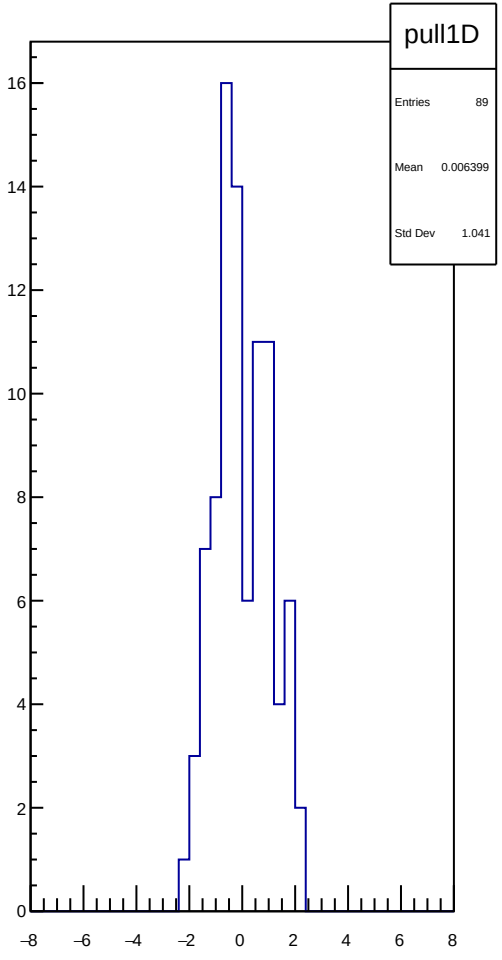

asym_sam_37_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 4333 / 88
p0 462.6 ± 0.3516
560
540
520
500
480
460
440
420

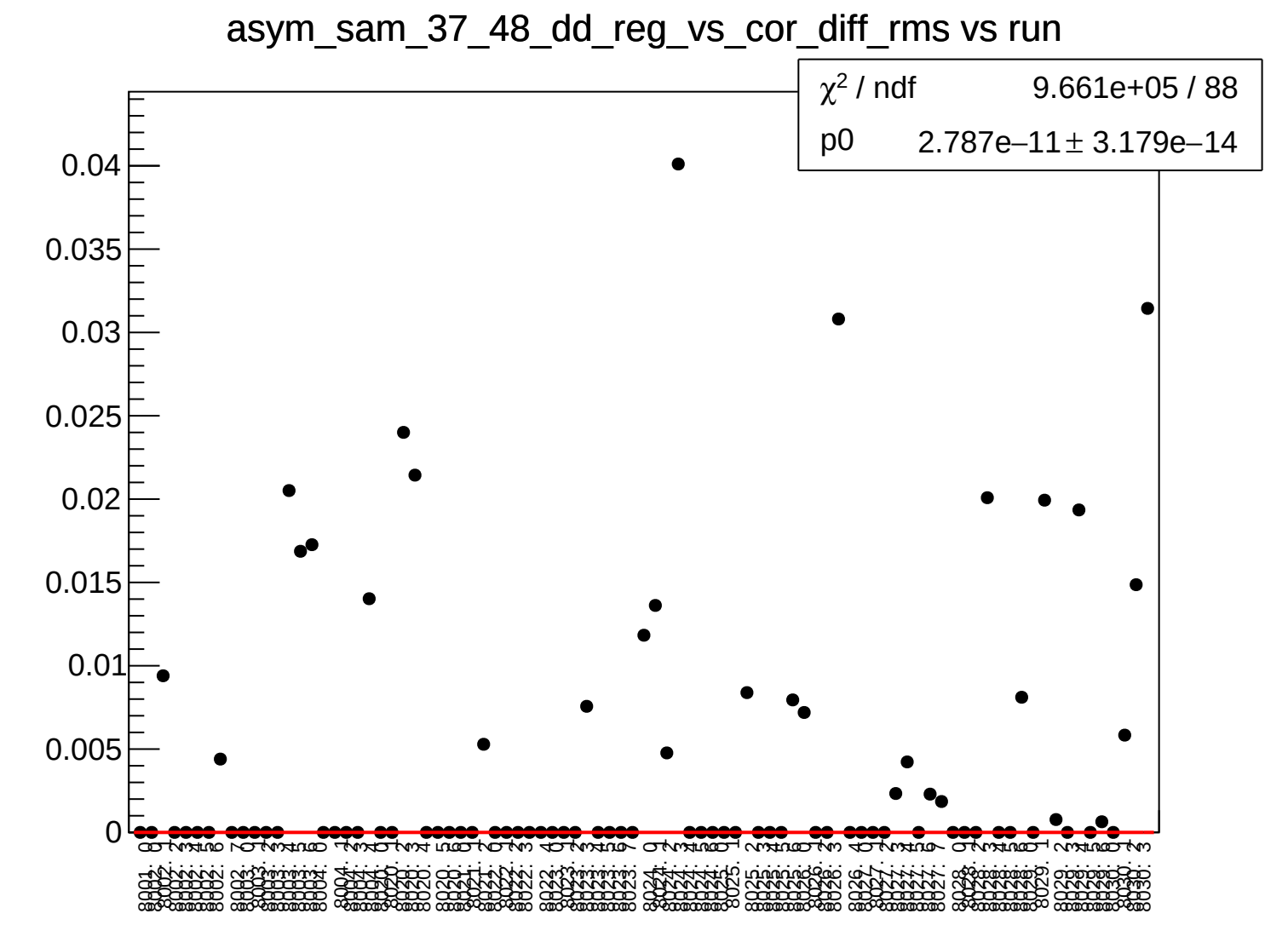

asym_sam_37_48_dd_mean vs run
χ² / ndf 102.5 / 88
p0 238.2 ± 489.3
pull
Entries 89
Mean 197.3
Std Dev 0

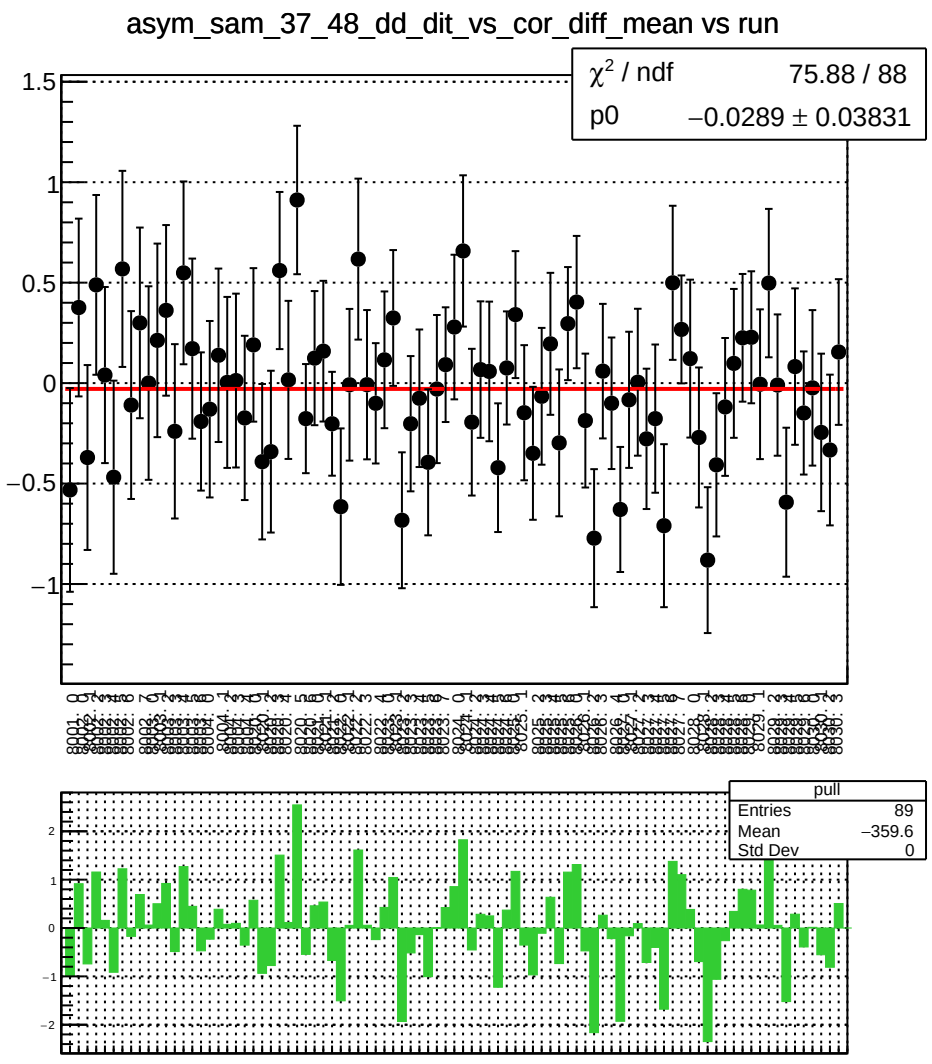

pull1D
Entries 89
Mean 0.01517
Std Dev 1.073

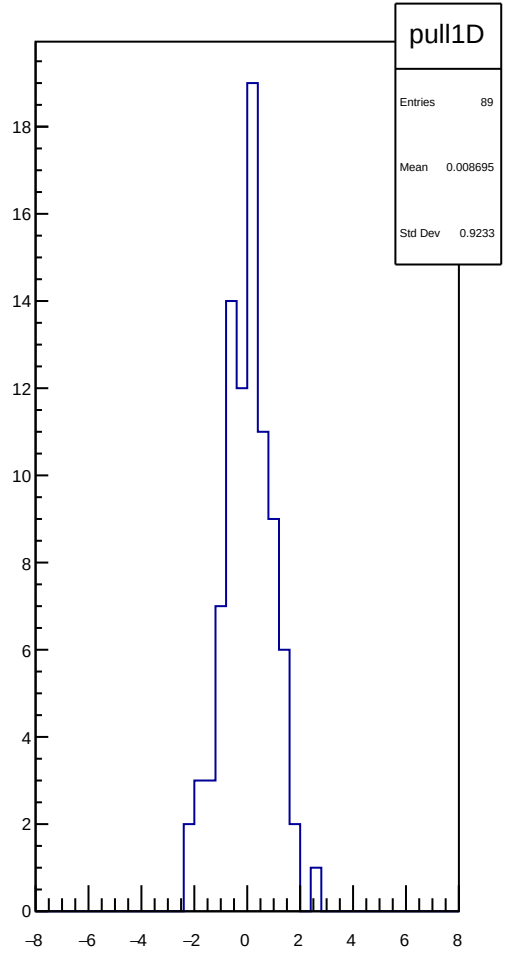

asym_sam_37_48_dd_rms vs run
χ² / ndf 4771 / 88
p0 455 ± 0.346
560
540
520
500
480
460
440
420
400

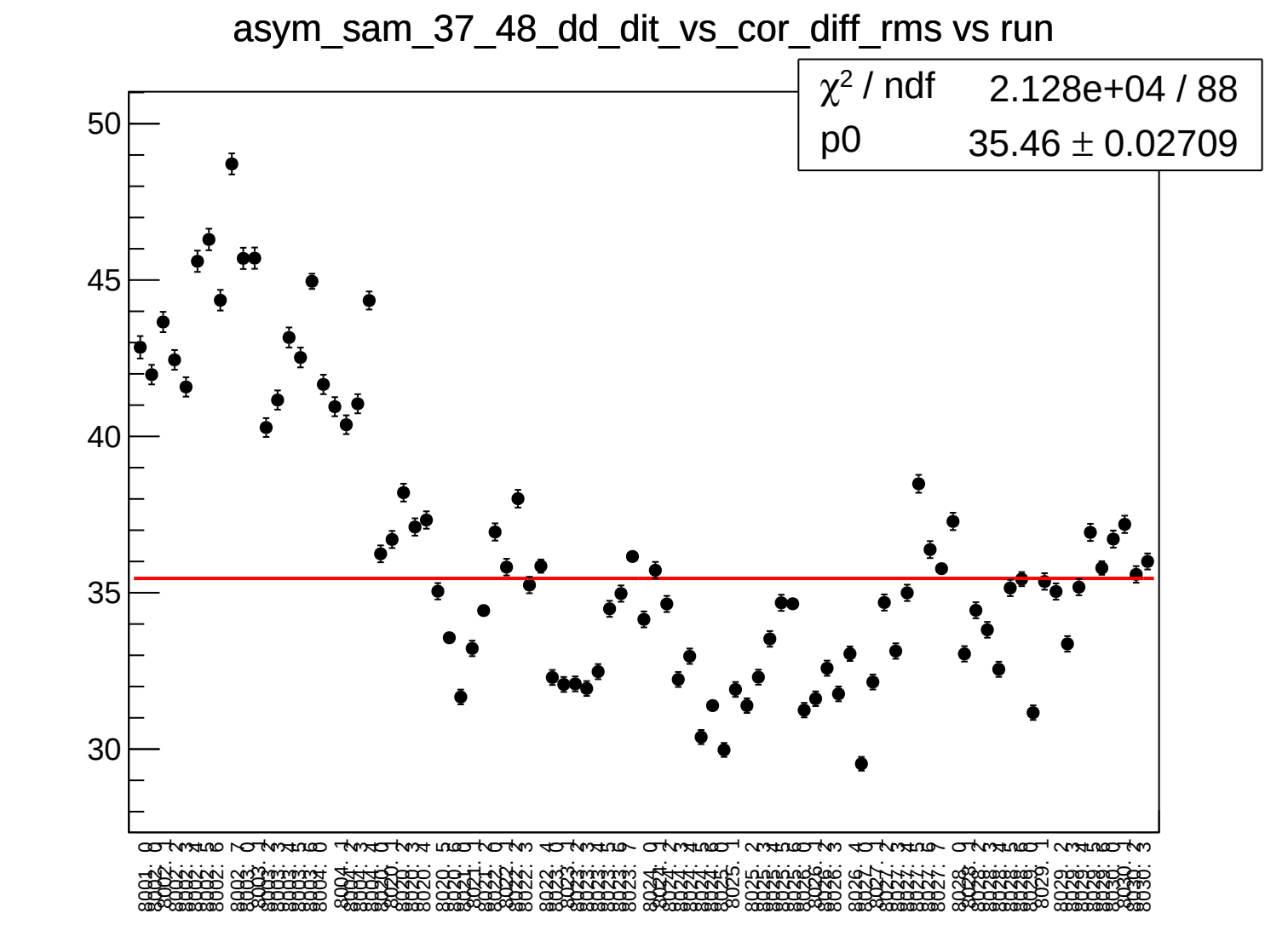

asym_sam_37_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 96.36 / 88
p0 −5.63e−14 ± 4.495e−14
pull
Entries 89
Mean 162.9
Std Dev 0

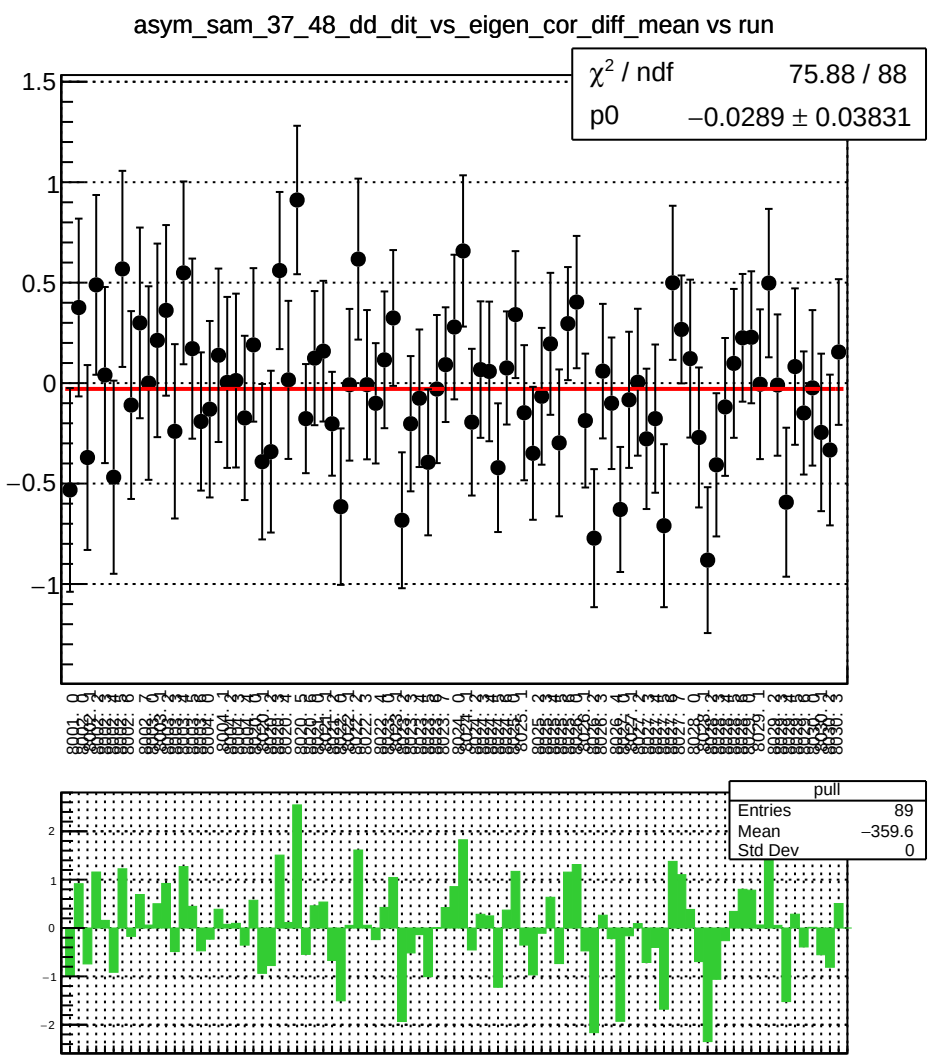

pull1D
Entries 89
Mean 0.006399
Std Dev 1.041

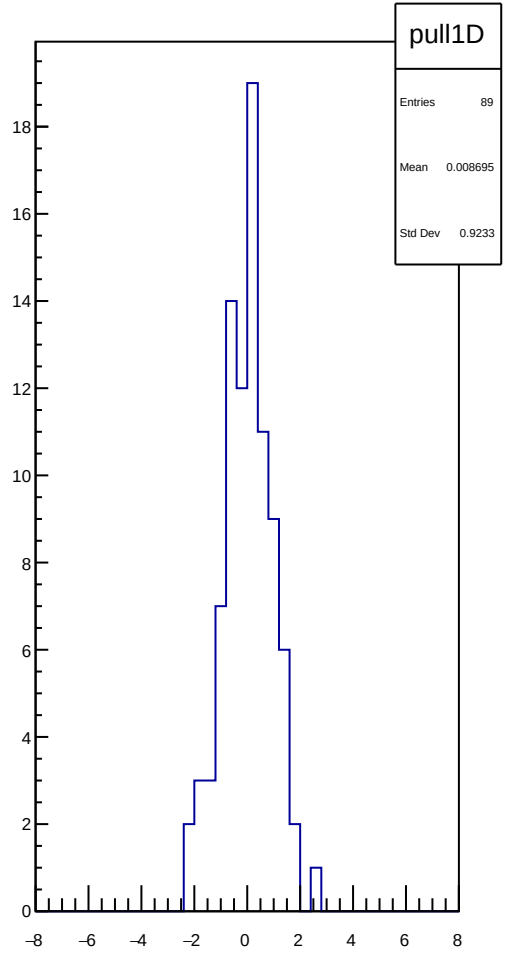

asym_sam_37_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.661e+05 / 88
p0 2.787e−11 ± 3.179e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

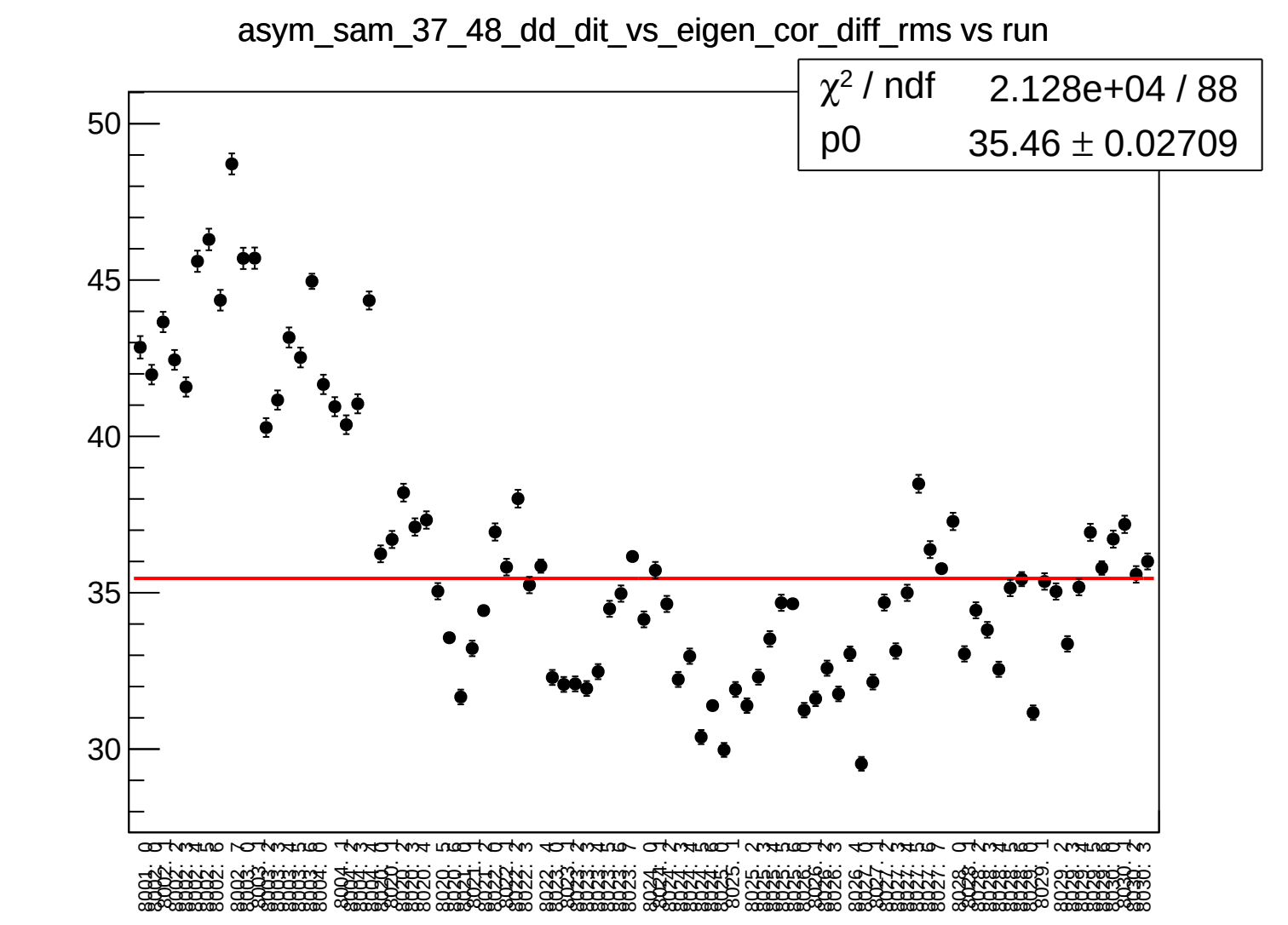

asym_sam_37_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 75.88 / 88
p0 −0.0289 ± 0.03831
pull
Entries 89
Mean −359.6
Std Dev 0

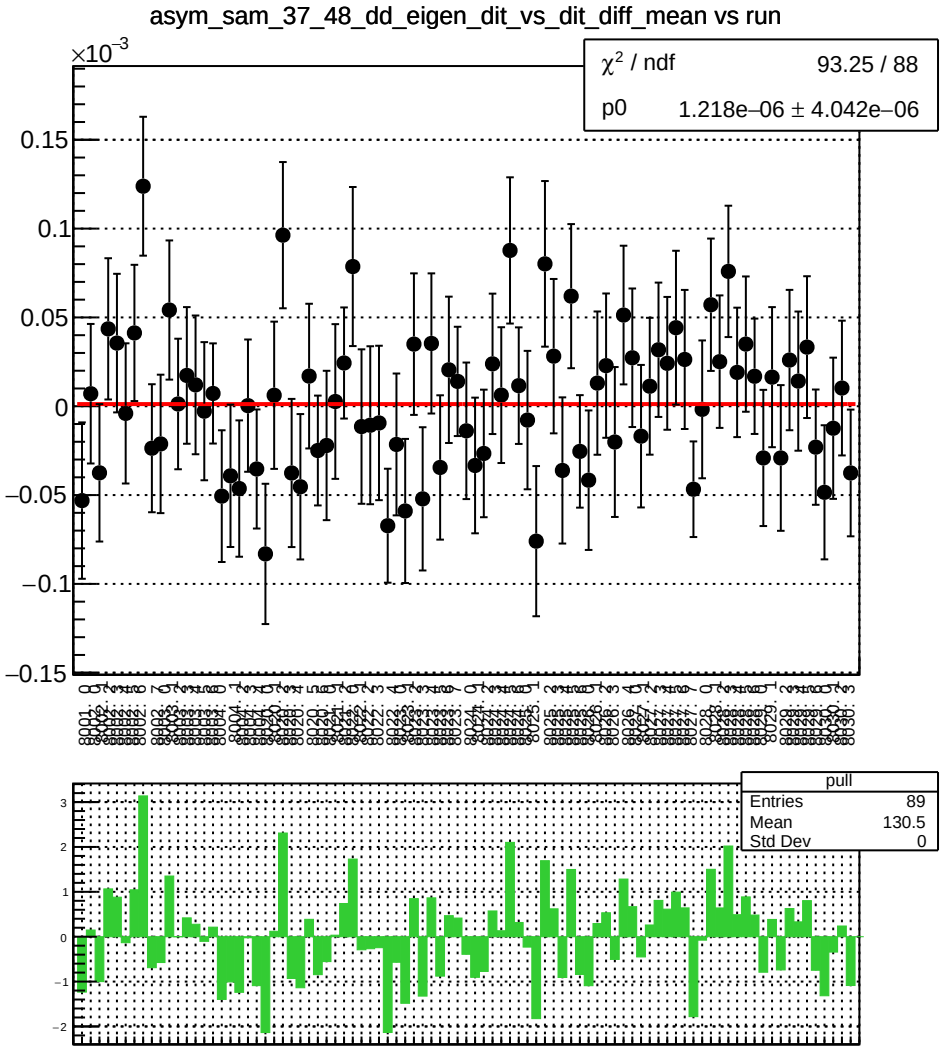

pull1D
Entries 89
Mean 0.008695
Std Dev 0.9233

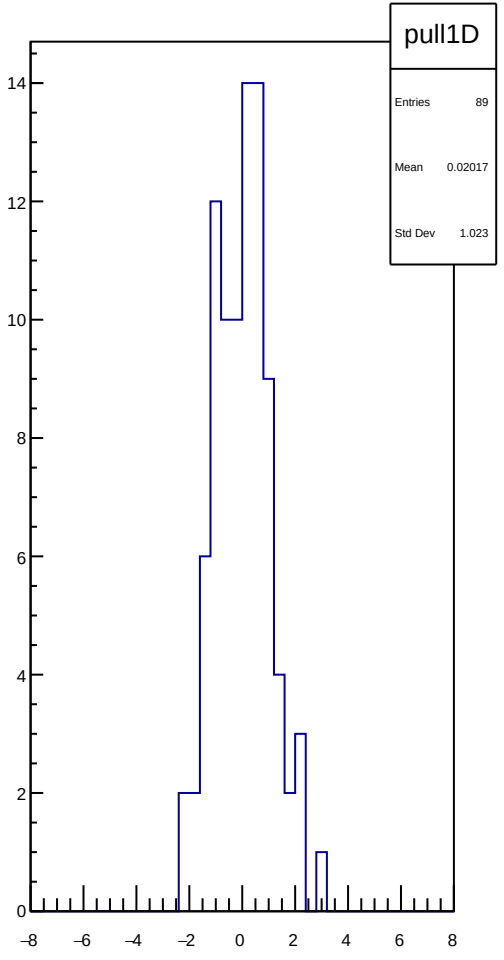

asym_sam_37_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.128e+04 / 88
p0 35.46 ± 0.02709
50
45
40
35
30

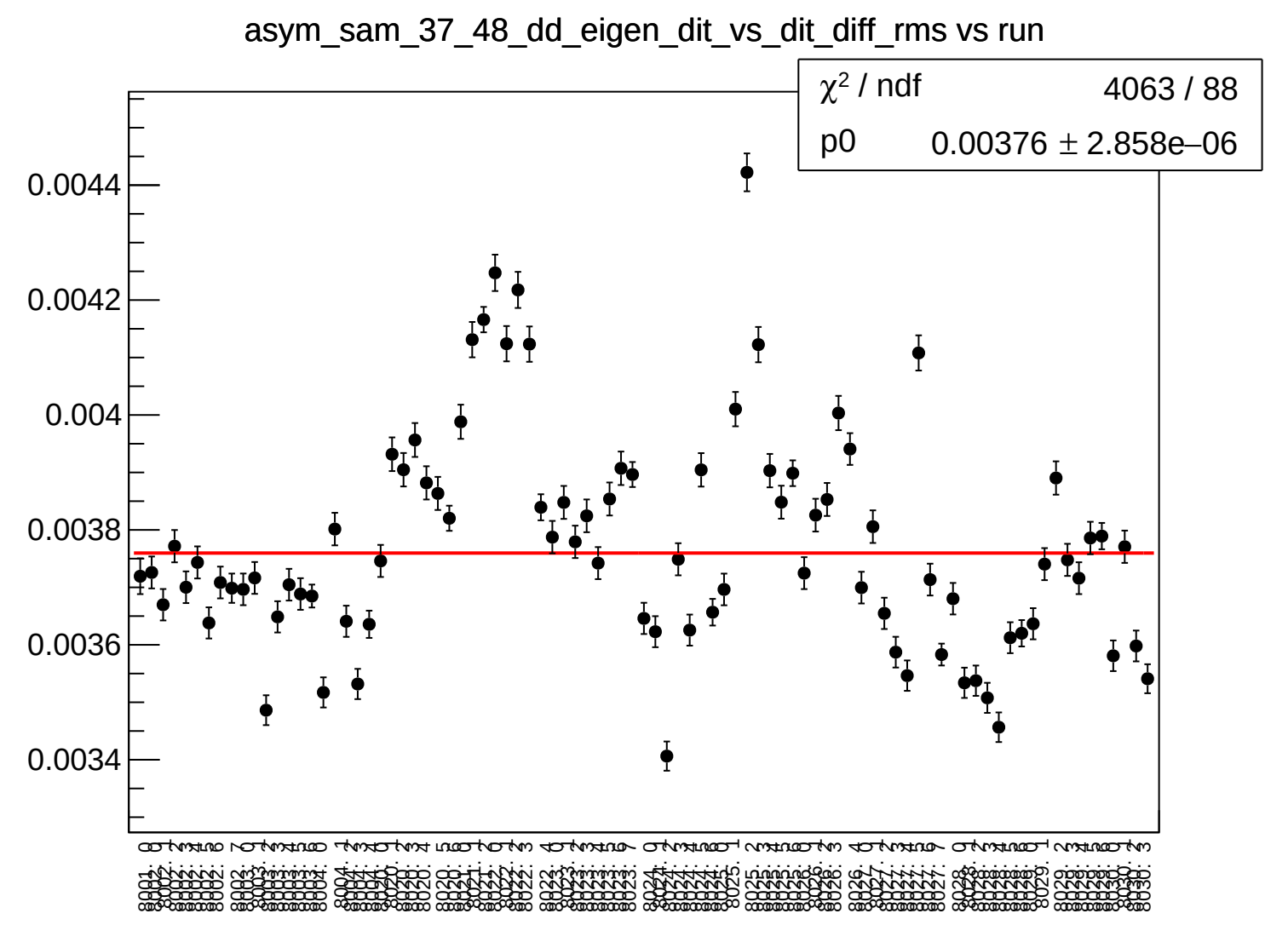

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.88 / 88
p0 −0.0289 ± 0.03831
pull
Entries 89
Mean −359.6
Std Dev 0

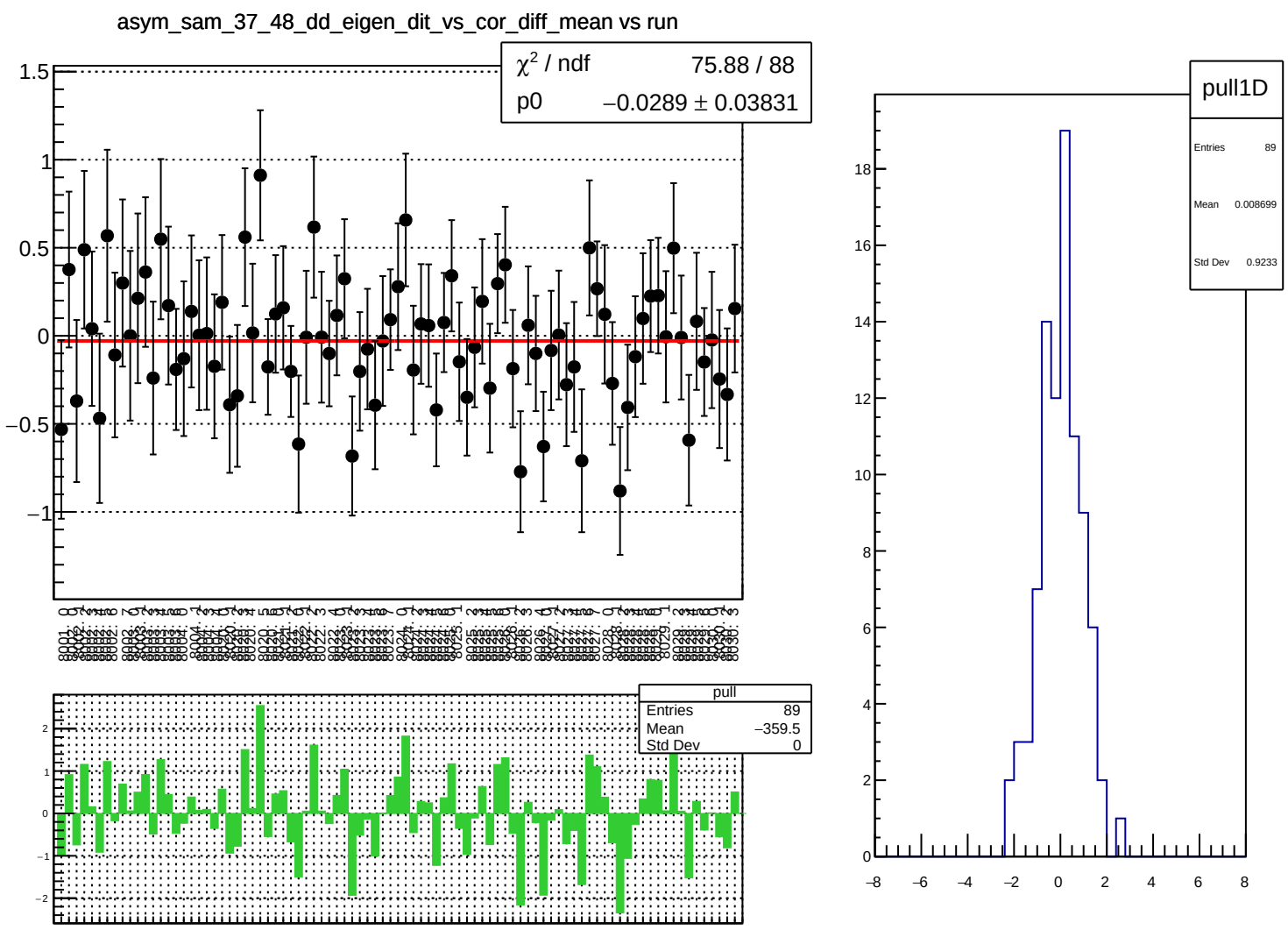

pull1D
Entries 89
Mean 0.008695
Std Dev 0.9233

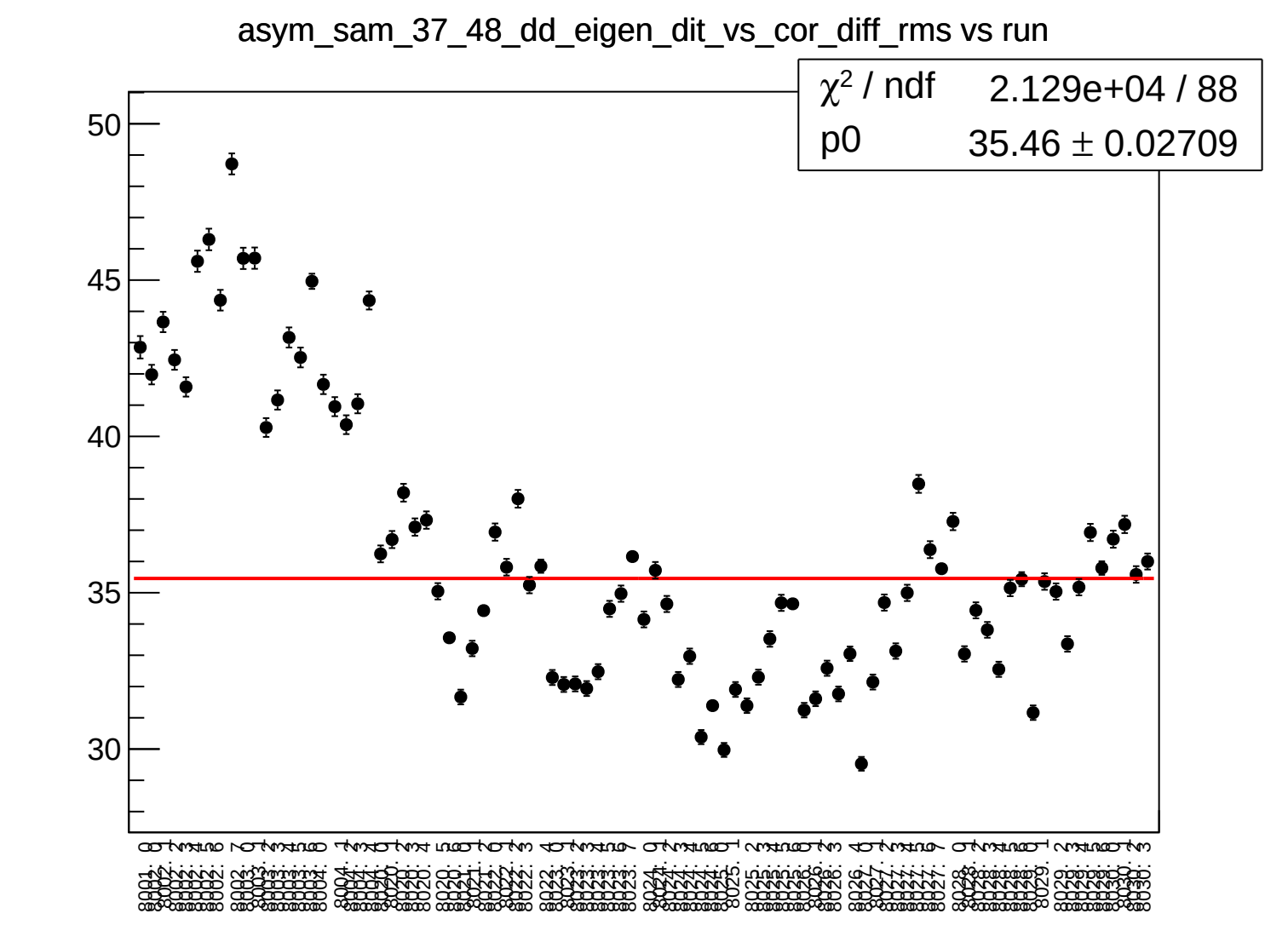

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.128e+04 / 88
p0 35.46 ± 0.02709
50
45
40
35
30

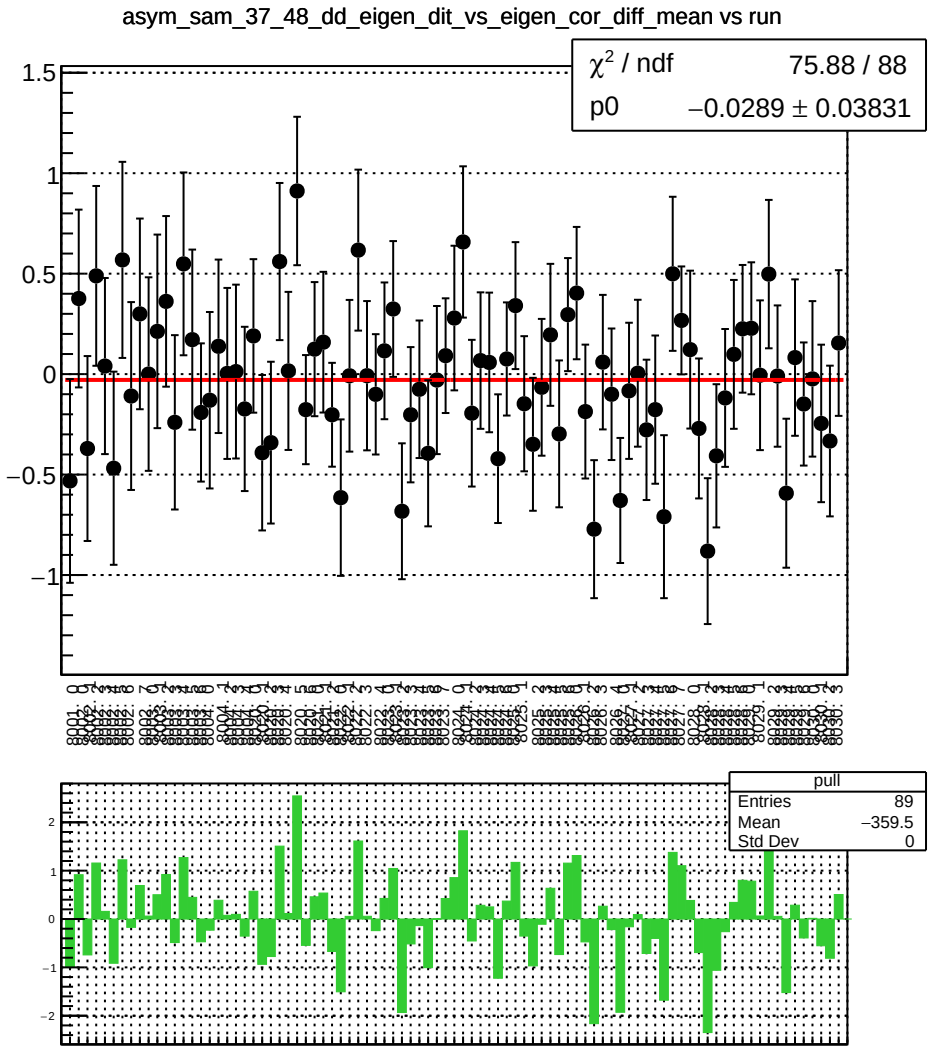

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.25 / 88
p0 1.218e−06 ± 4.042e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 89
Mean 130.5
Std Dev 0
3
2
1
0
−1
−2

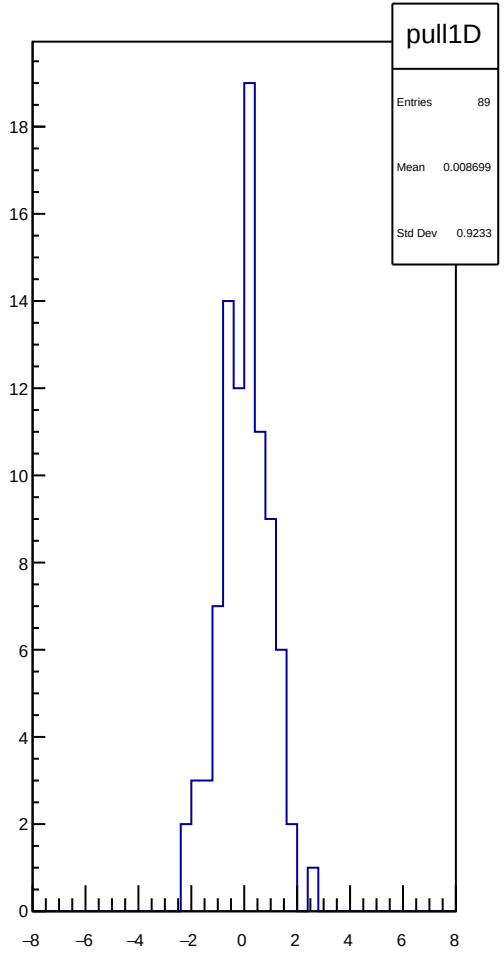

pull1D
Entries 89
Mean 0.02017
Std Dev 1.023
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

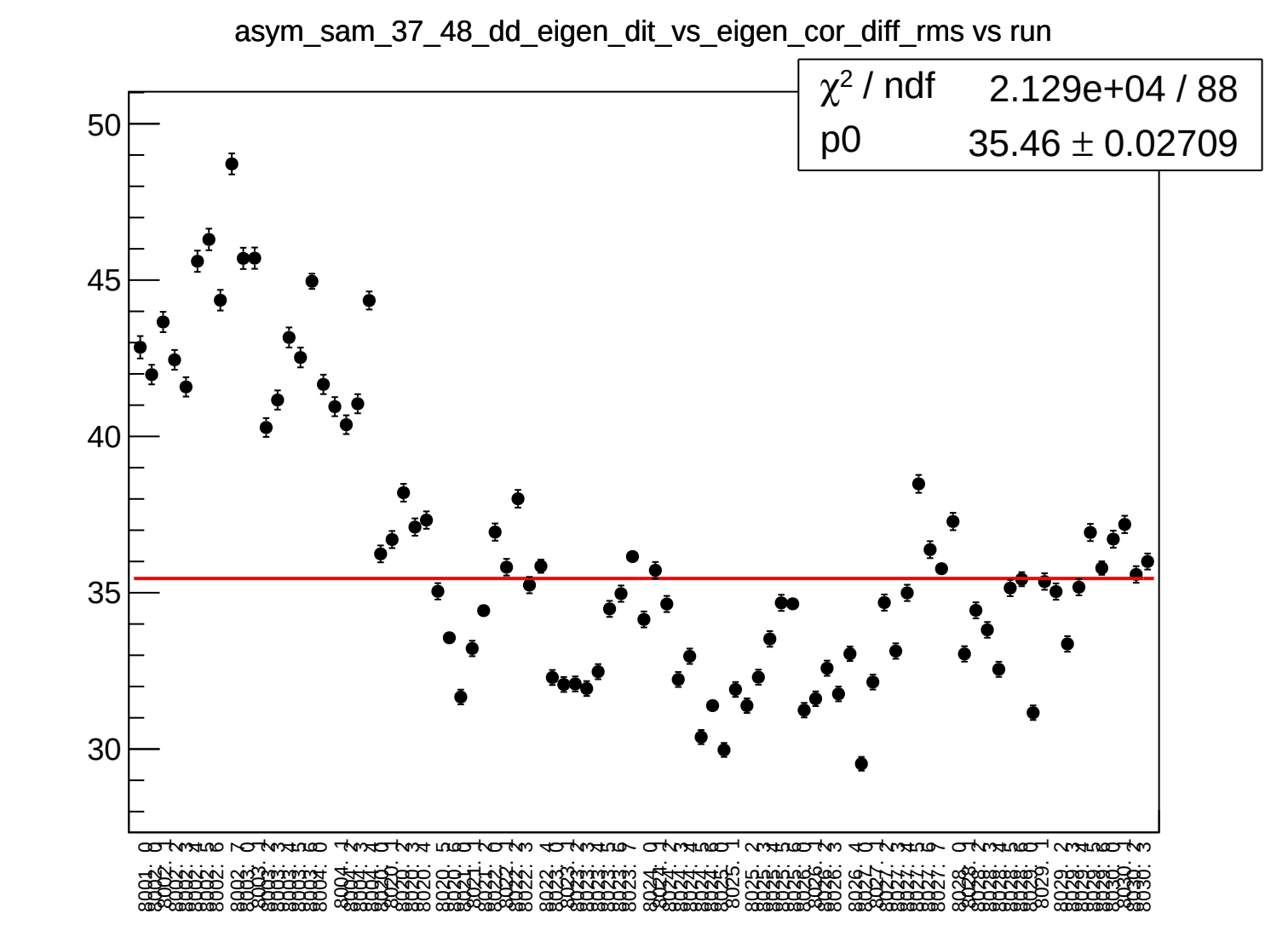

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4063 / 88
p0 0.00376 ± 2.858e–06
0.0044
0.0042
0.004
0.0038
0.0036
0.0034

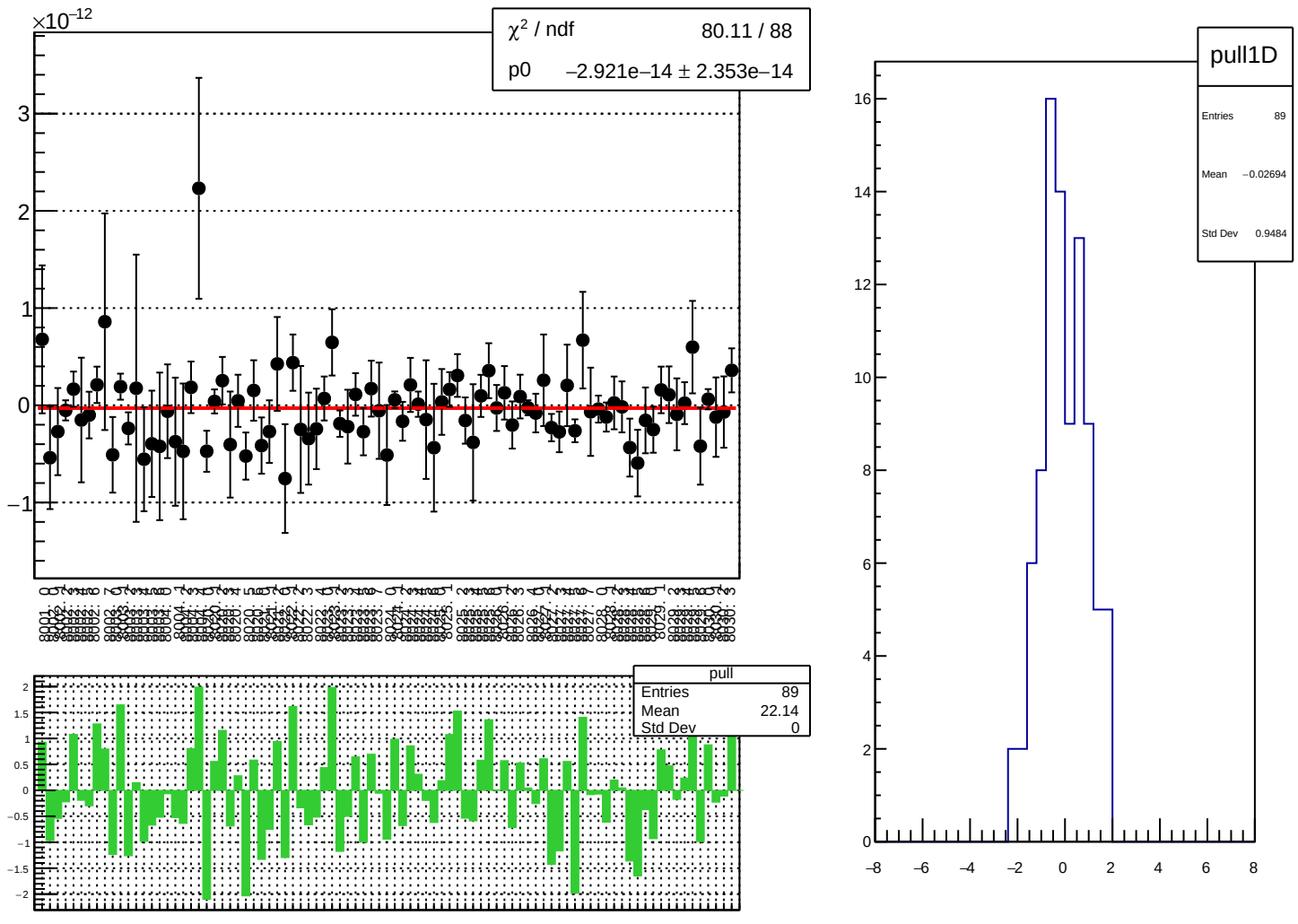

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.88 / 88
p0 −0.0289 ± 0.03831
pull
Entries 89
Mean −359.5
Std Dev 0
pull1D
Entries 89
Mean 0.008699
Std Dev 0.9233

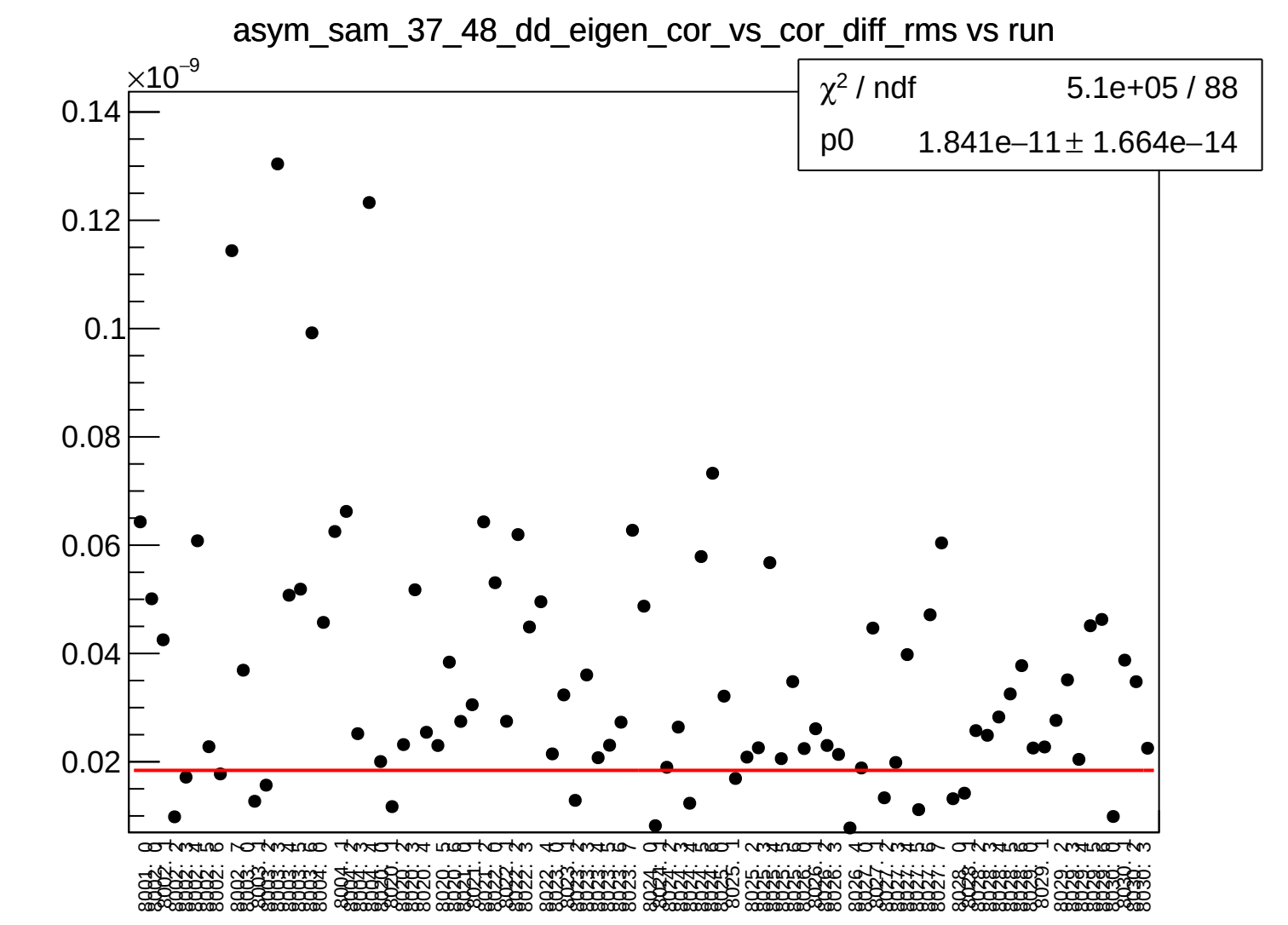

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.129e+04 / 88
p0 35.46 ± 0.02709
50
45
40
35
30

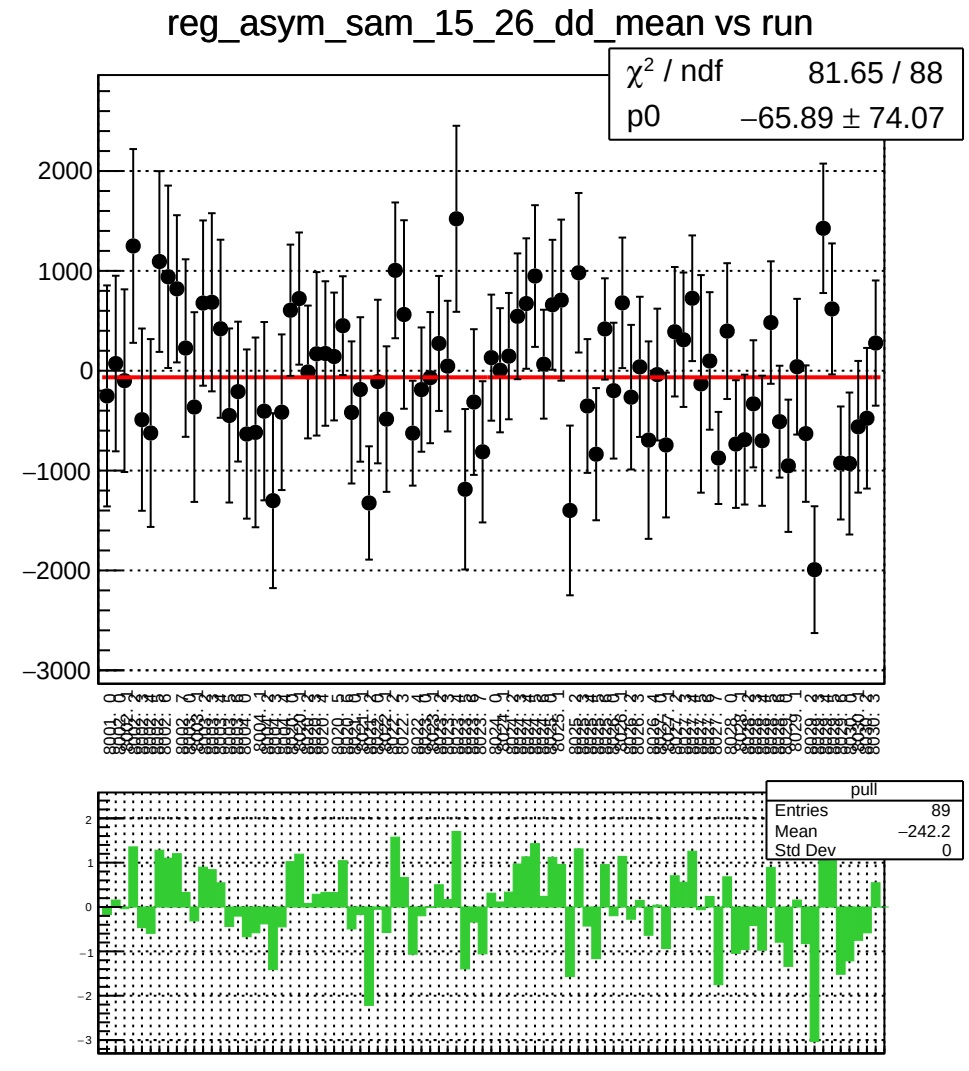

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.88 / 88
p0 −0.0289 ± 0.03831
pull
Entries 89
Mean −359.5
Std Dev 0

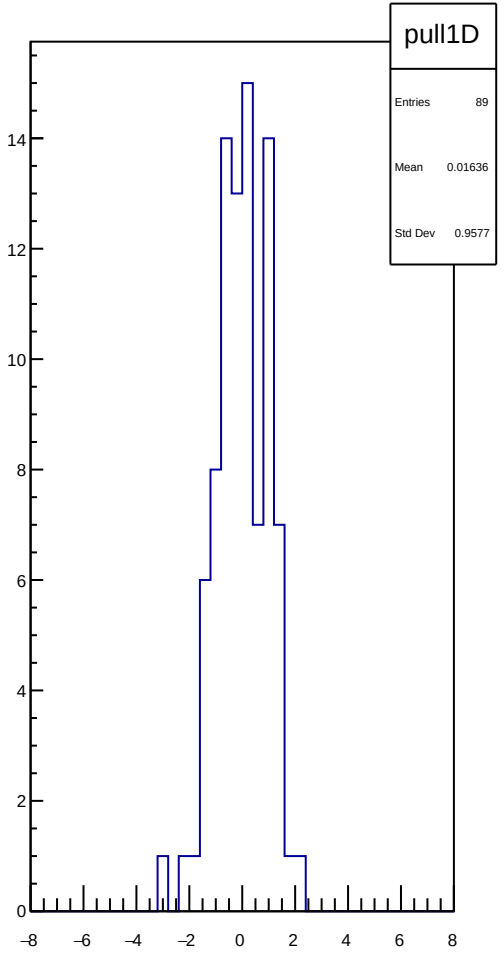

pull1D
Entries 89
Mean 0.008699
Std Dev 0.9233

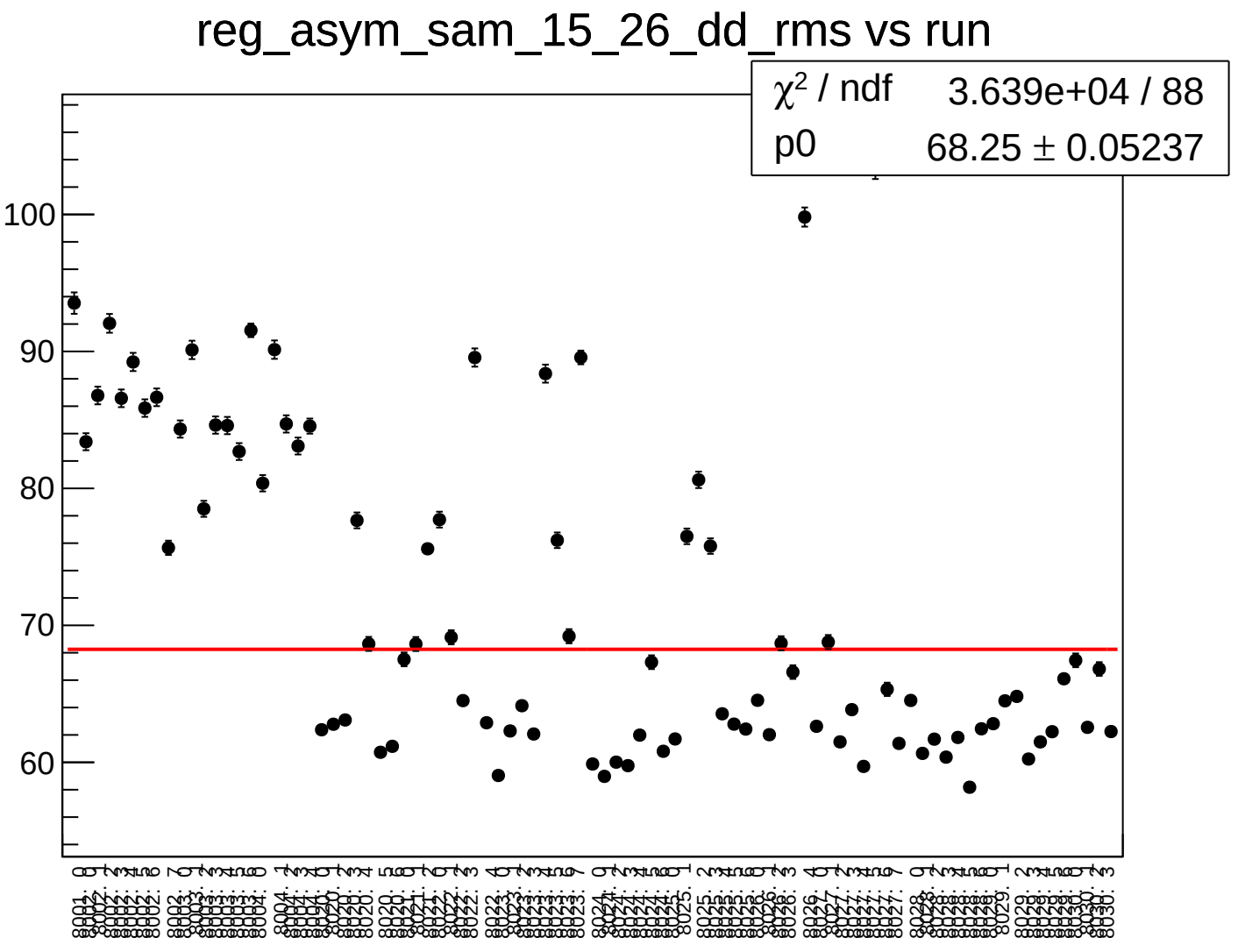

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.129e+04 / 88
p0 35.46 ± 0.02709
50
45
40
35
30

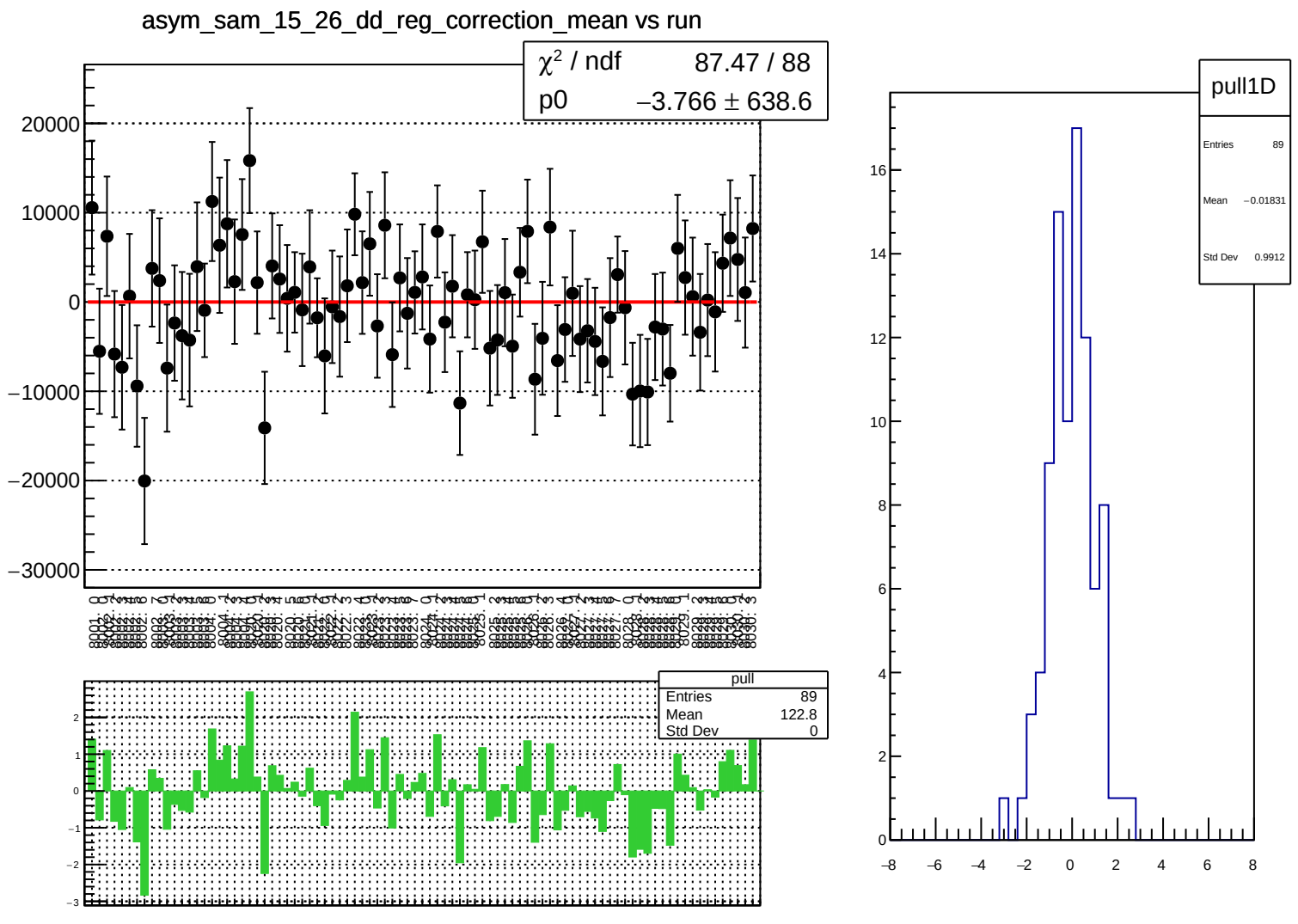

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.11 / 88
p0 −2.921e−14 ± 2.353e−14
pull
Entries 89
Mean 22.14
Std Dev 0
pull1D
Entries 89
Mean −0.02694
Std Dev 0.9484

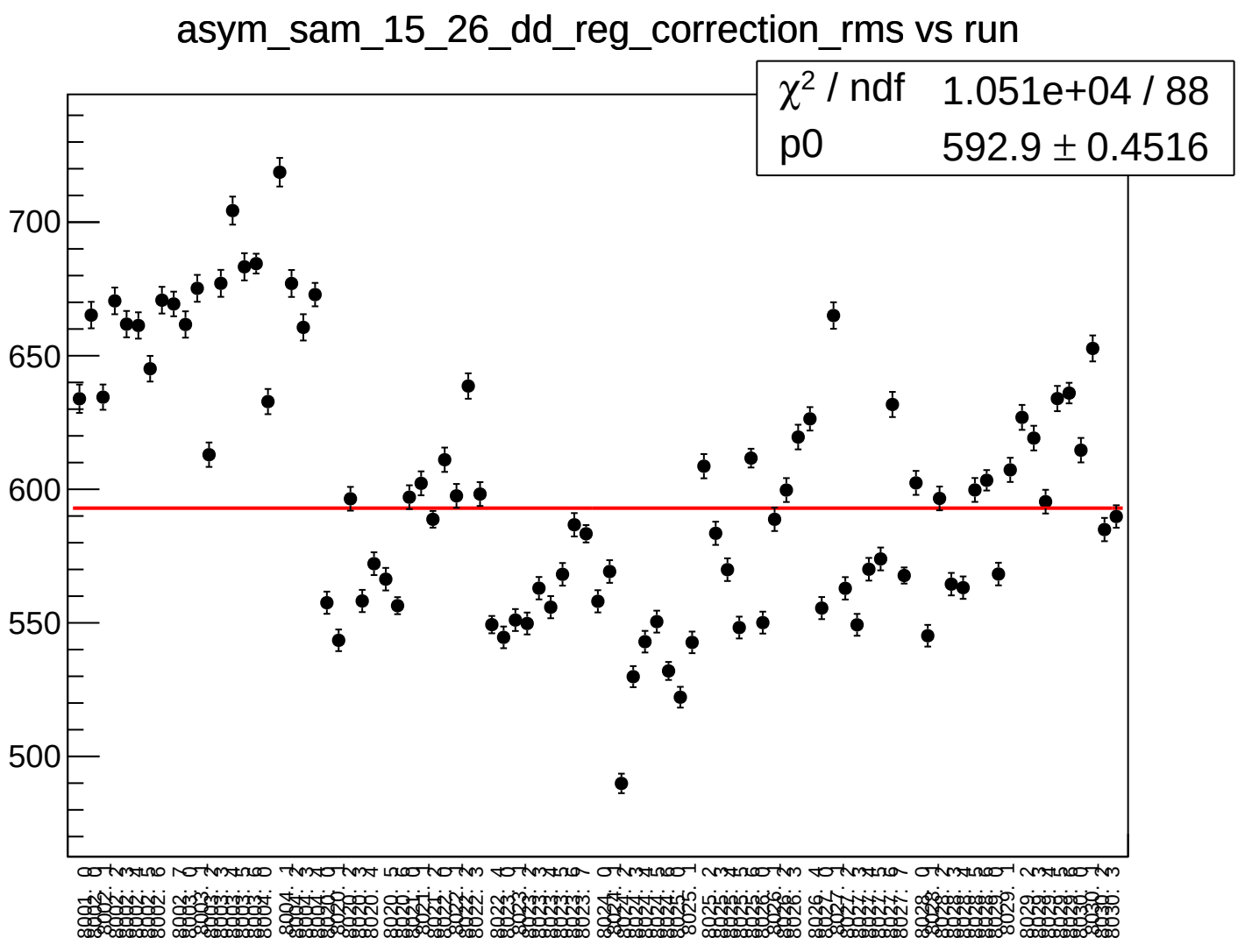

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.1e+05 / 88
p0 1.841e−11 ± 1.664e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

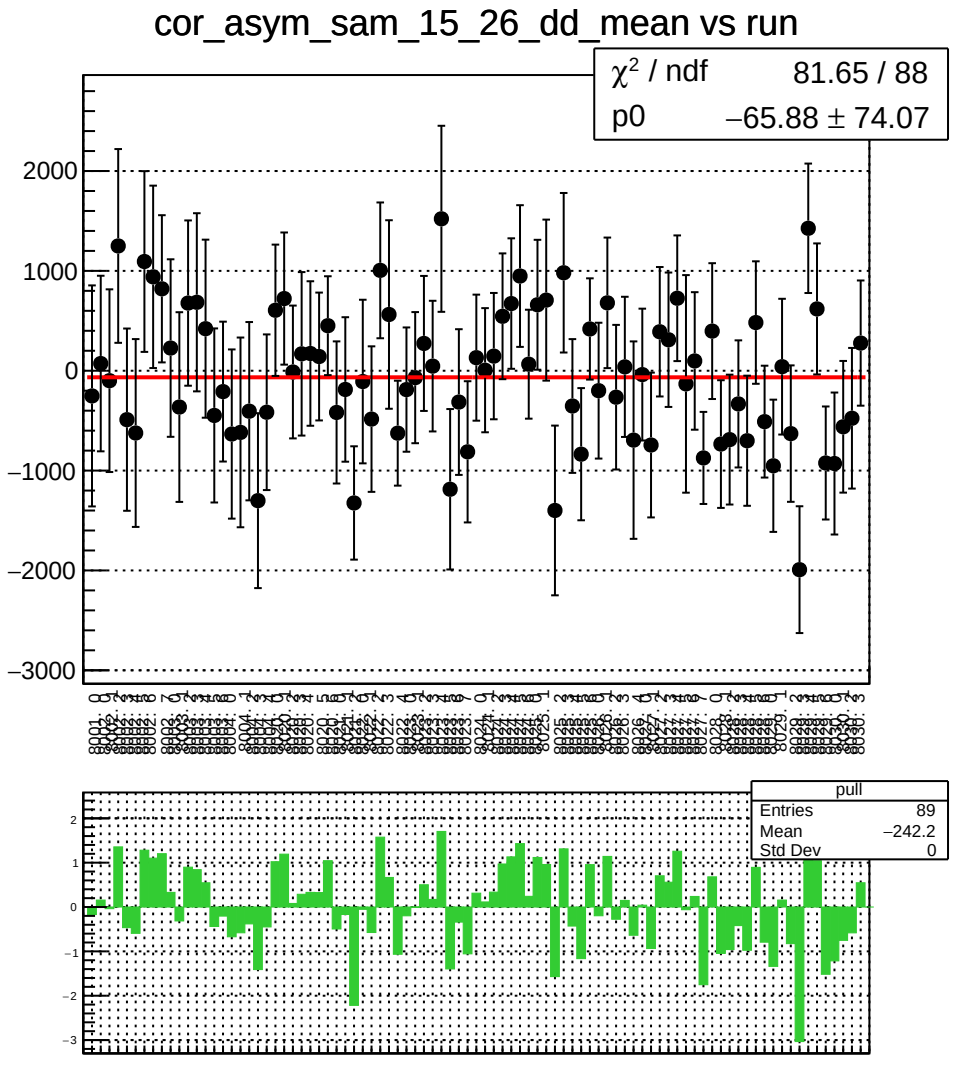

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 81.65 / 88
p0 −65.89 ± 74.07
pull
Entries 89
Mean −242.2
Std Dev 0

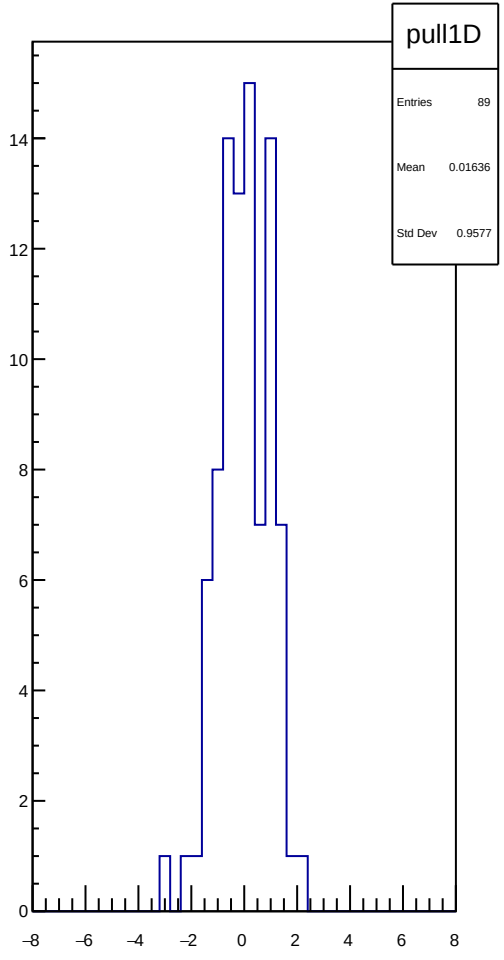

pull1D
Entries 89
Mean 0.01636
Std Dev 0.9577

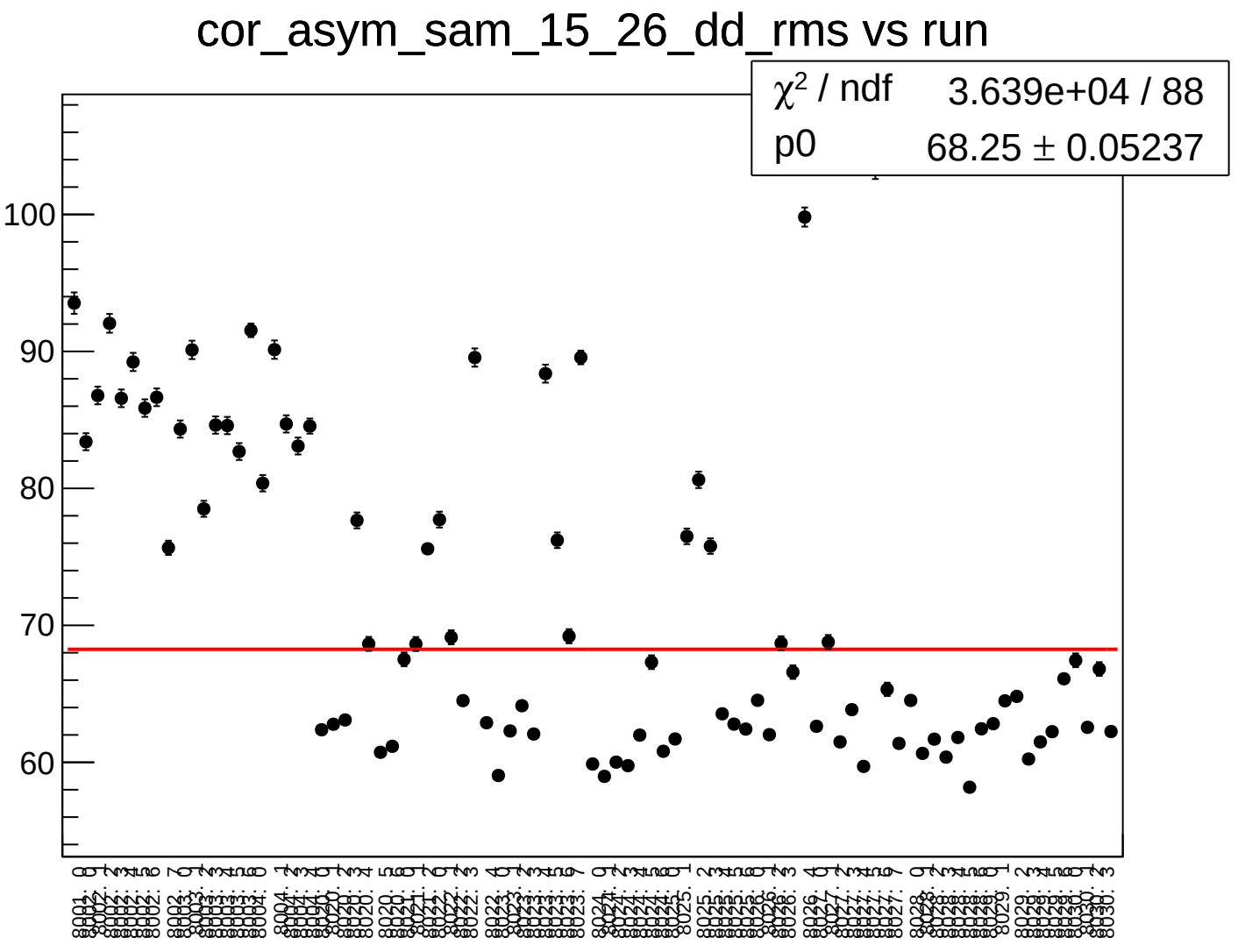

reg_asym_sam_15_26_dd_rms vs run
χ² / ndf 3.639e+04 / 88
p0 68.25 ± 0.05237
100
90
80
70
60

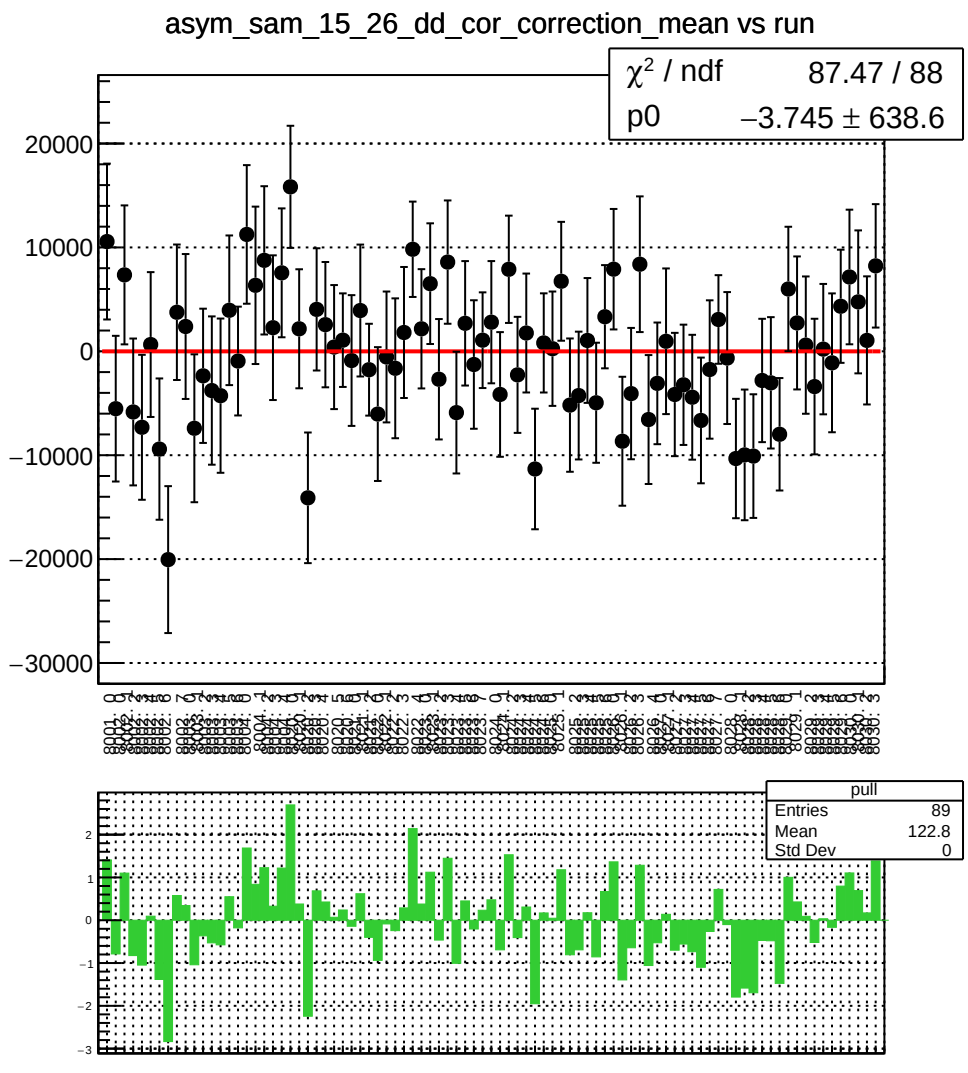

asym_sam_15_26_dd_reg_correction_mean vs run
χ² / ndf 87.47 / 88
p0 −3.766 ± 638.6
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 122.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.01831
Std Dev 0.9912
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

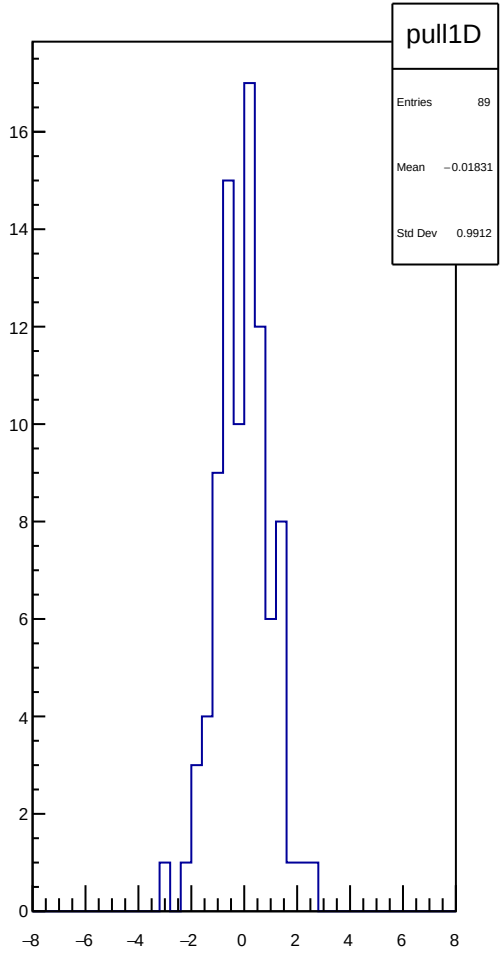

asym_sam_15_26_dd_reg_correction_rms vs run
χ² / ndf 1.051e+04 / 88
p0 592.9 ± 0.4516
700
650
600
550
500

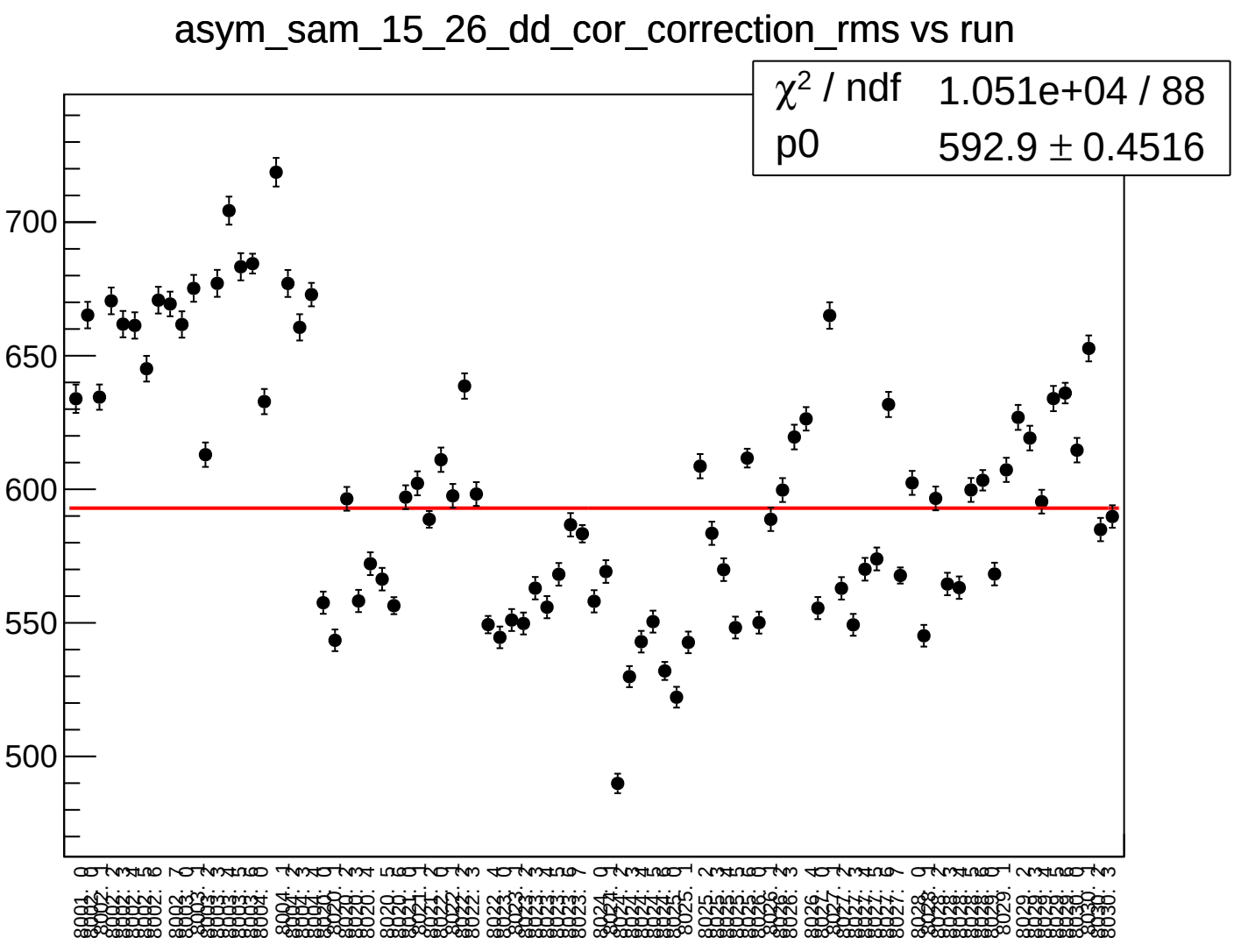

cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 81.65 / 88
p0 −65.88 ± 74.07
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean −242.2
Std Dev 0
2
1
0
−1
−2
−3

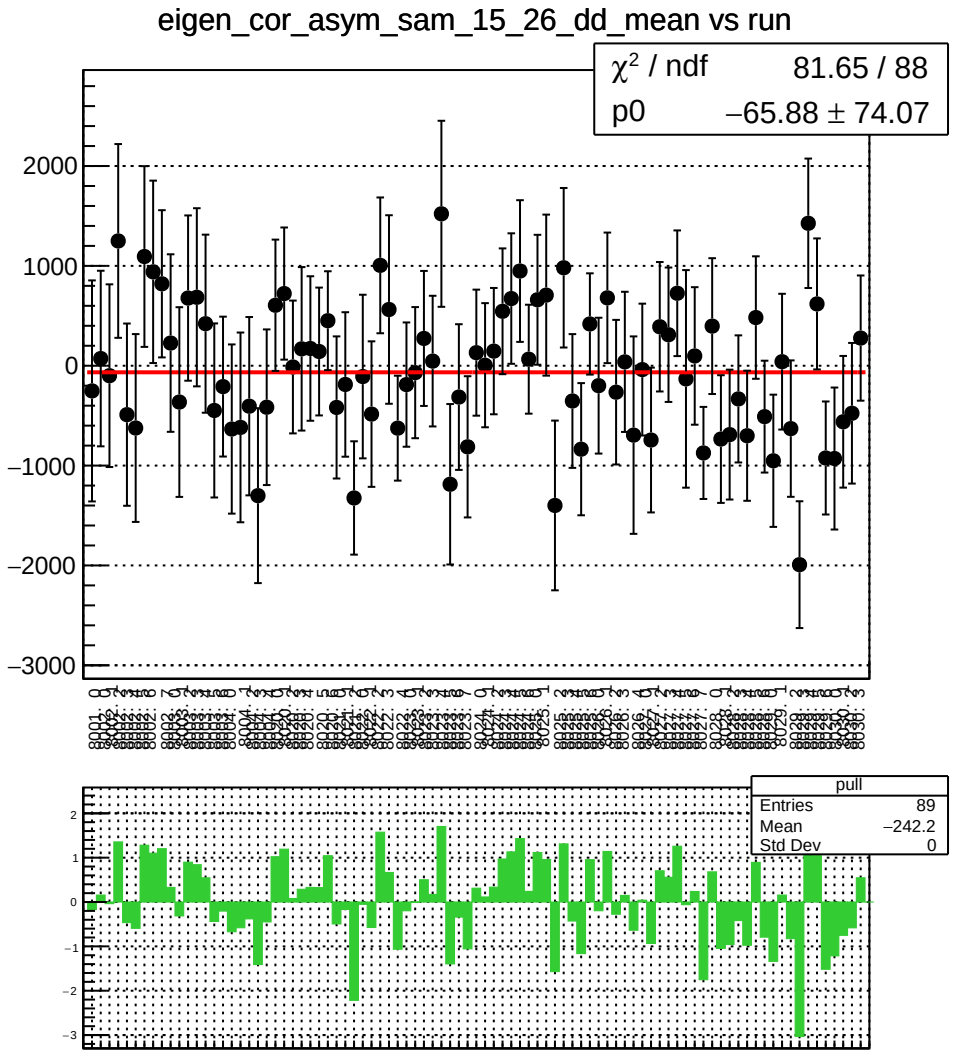

pull1D
Entries 89
Mean 0.01636
Std Dev 0.9577
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

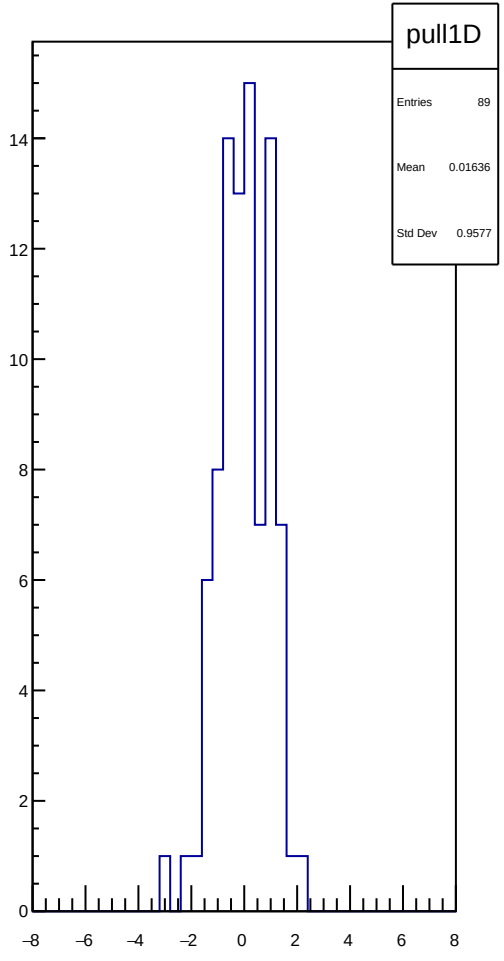

cor_asym_sam_15_26_dd_rms vs run
χ^2 / ndf 3.639e+04 / 88
p0 68.25 ± 0.05237
100
90
80
70
60

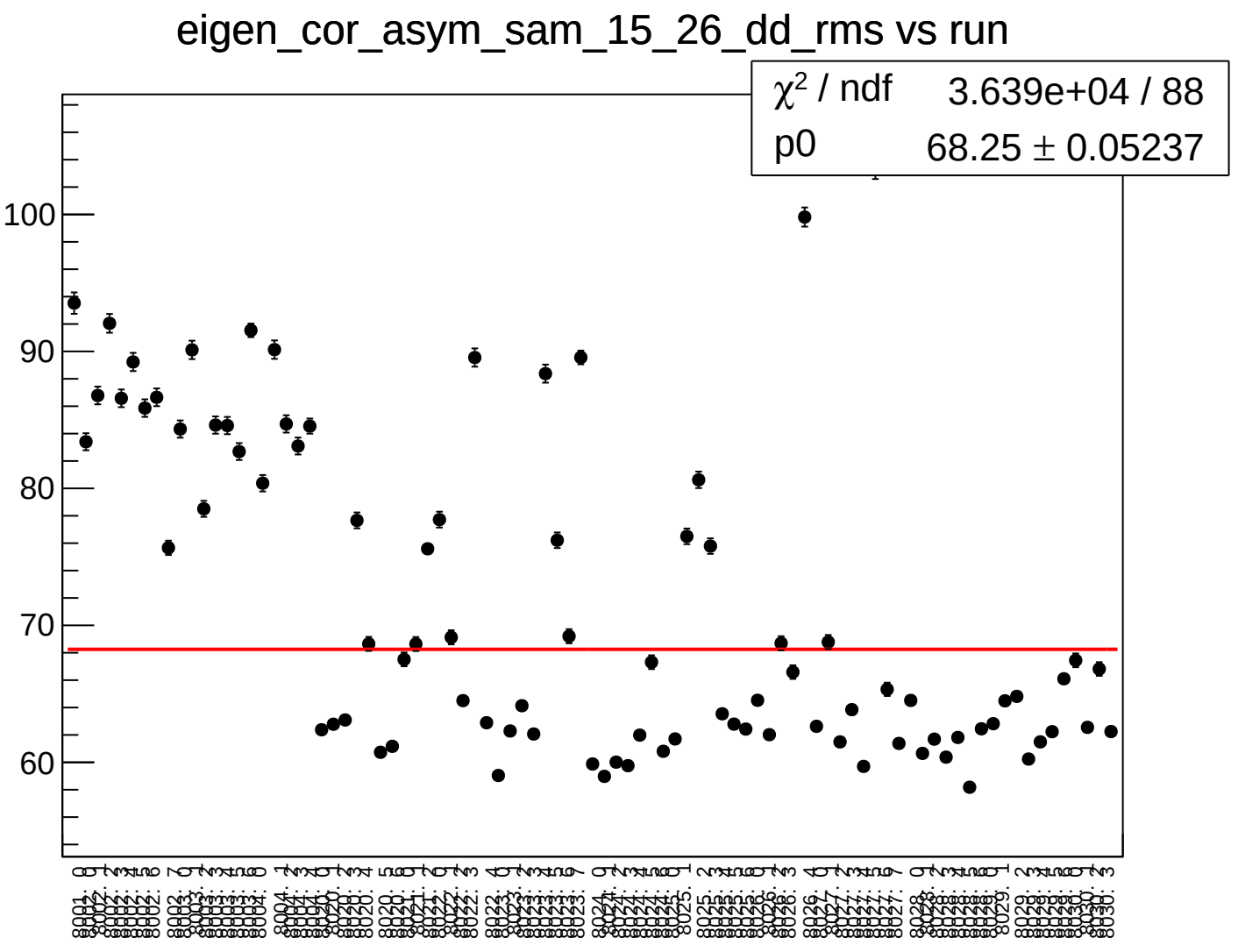

asym_sam_15_26_dd_cor_correction_mean vs run
χ² / ndf 87.47 / 88
p0 −3.745 ± 638.6
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 122.8
Std Dev 0
2
1
0
−1
−2
−3

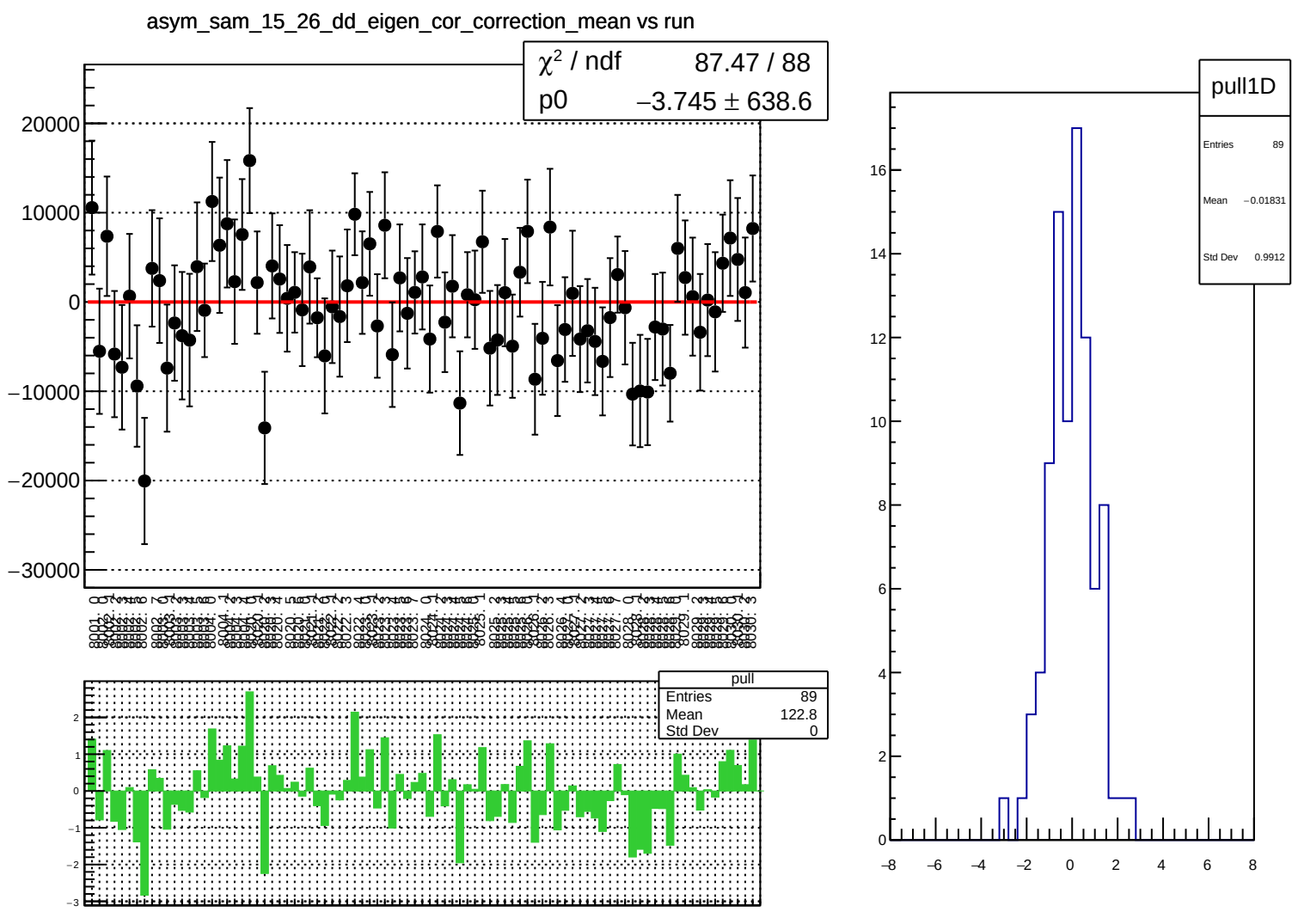

pull1D
Entries 89
Mean −0.01831
Std Dev 0.9912
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

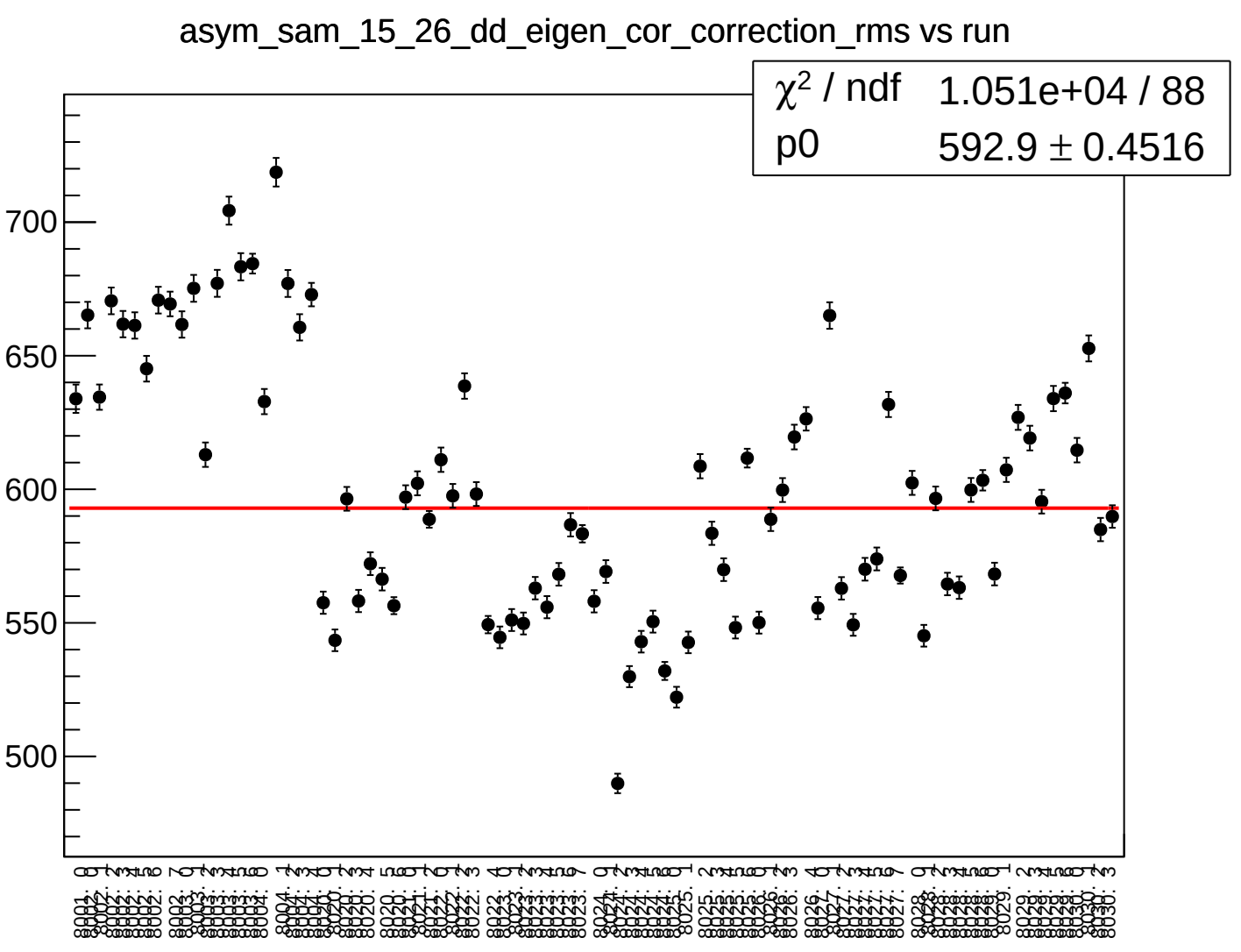

asym_sam_15_26_dd_cor_correction_rms vs run
χ² / ndf 1.051e+04 / 88
p0 592.9 ± 0.4516
700
650
600
550
500

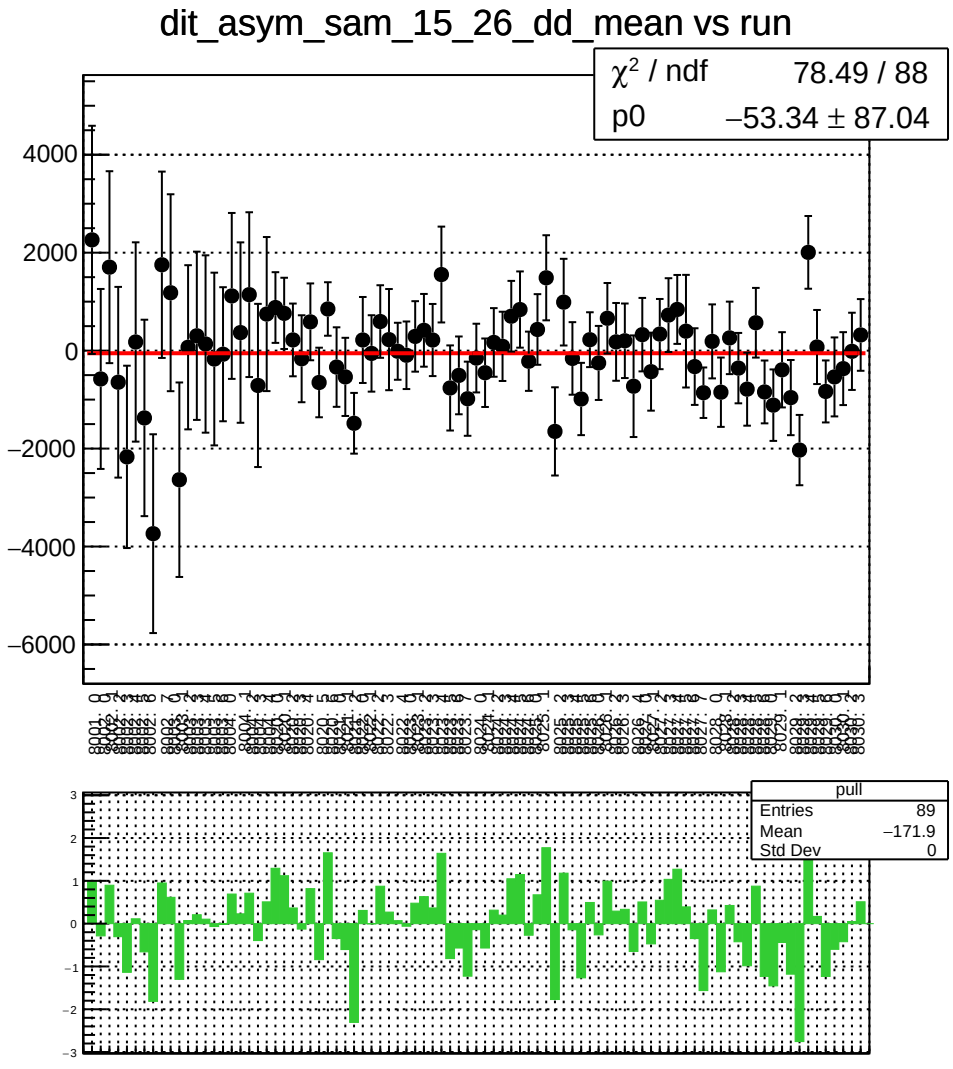

eigen_cor_asym_sam_15_26_dd_mean vs run
χ^2 / ndf 81.65 / 88
p0 −65.88 ± 74.07
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean −242.2
Std Dev 0
2
1
0
−1
−2
−3

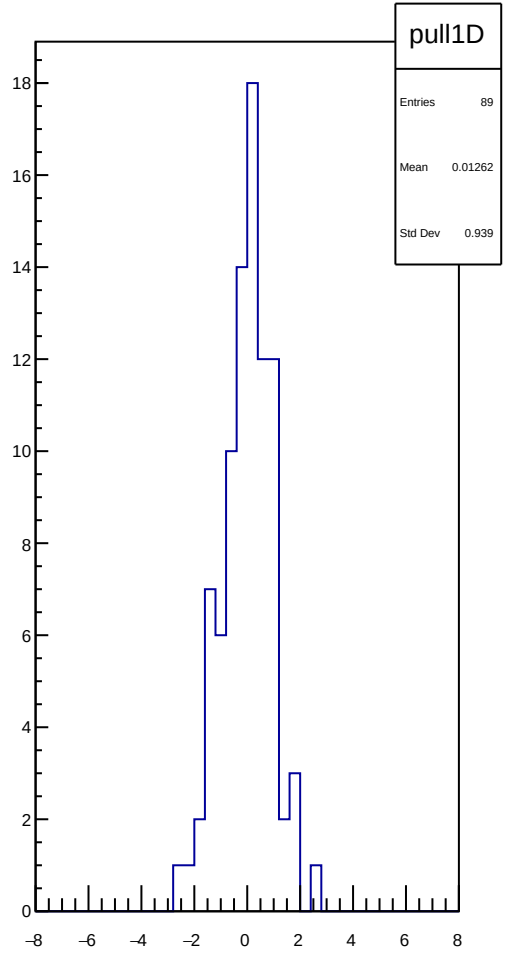

pull1D
Entries 89
Mean 0.01636
Std Dev 0.9577
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

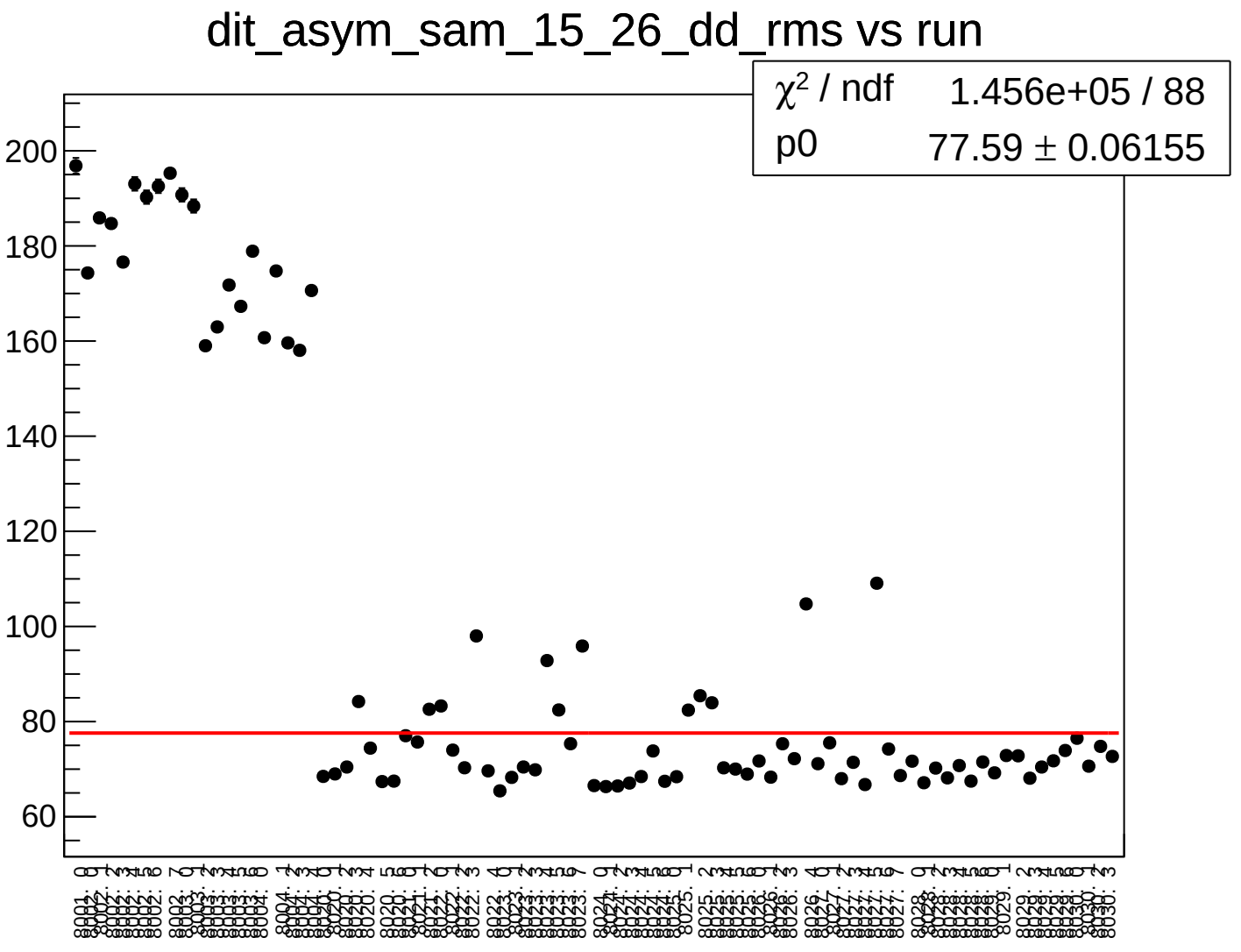

eigen_cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 3.639e+04 / 88
p0 68.25 ± 0.05237
100
90
80
70
60

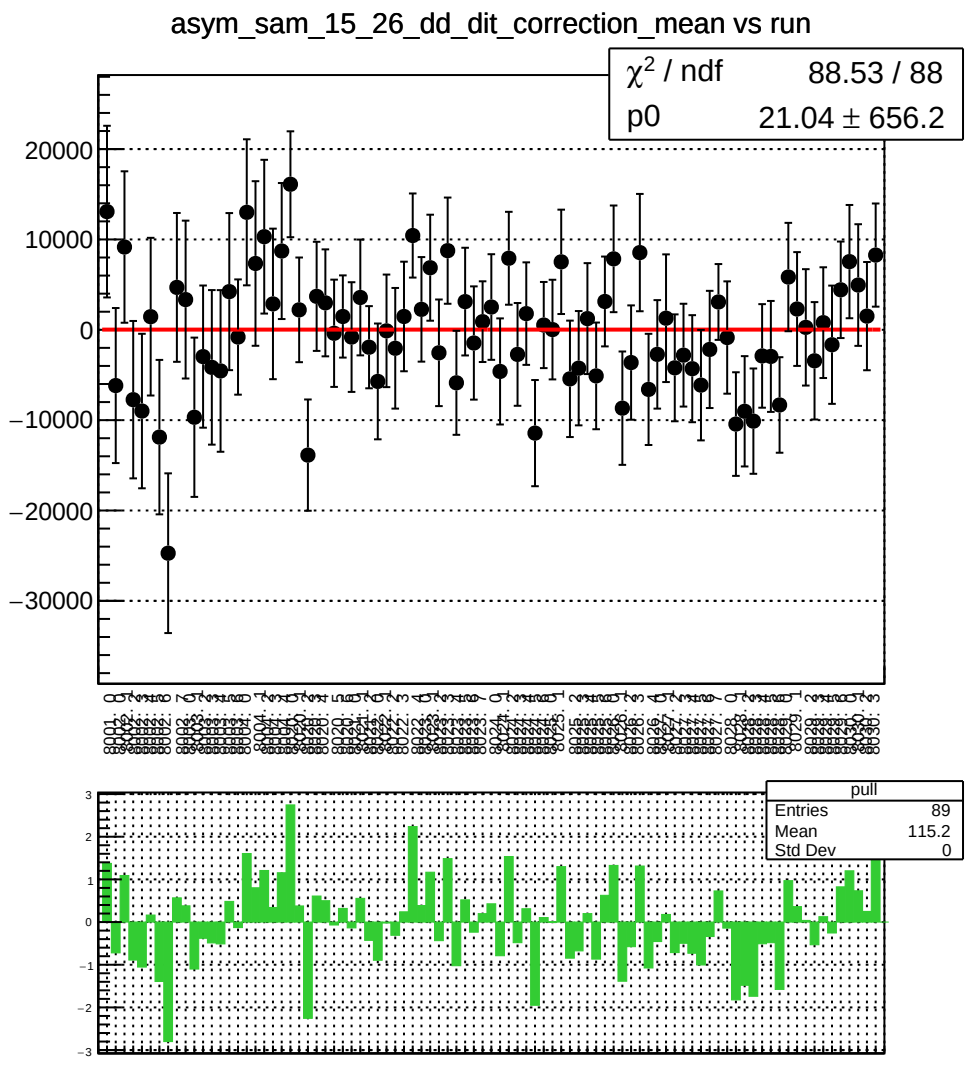

asym_sam_15_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 87.47 / 88
p0 −3.745 ± 638.6
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 122.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.01831
Std Dev 0.9912
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

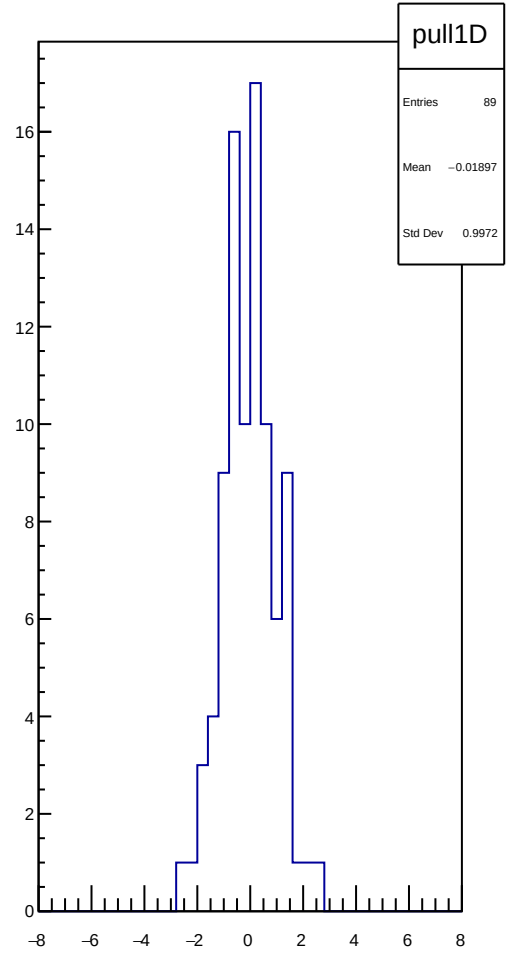

asym_sam_15_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.051e+04 / 88
p0 592.9 ± 0.4516
700
650
600
550
500

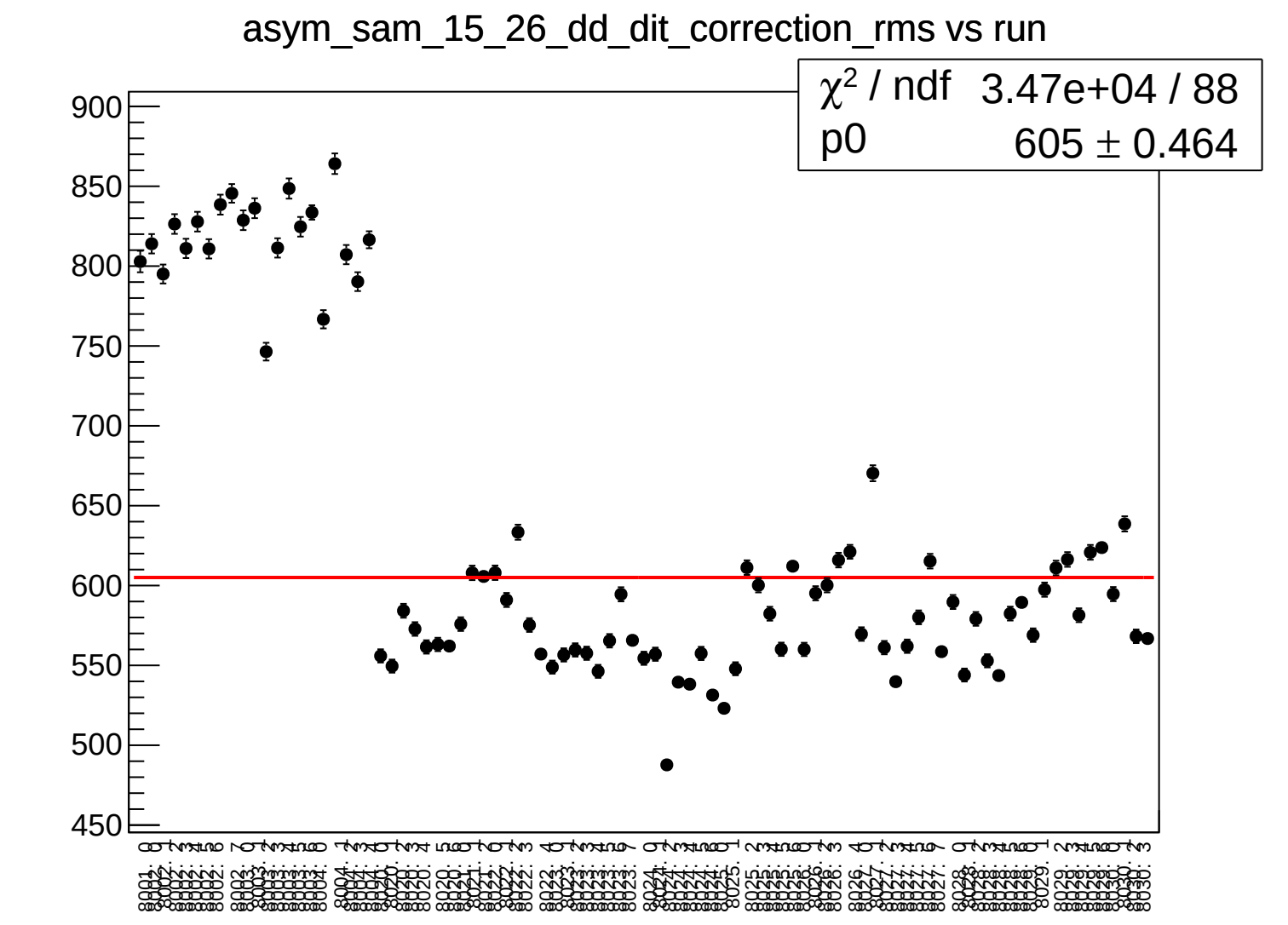

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 78.49 / 88
p0 −53.34 ± 87.04
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean −171.9
Std Dev 0
3
2
1
0
−1
−2
−3

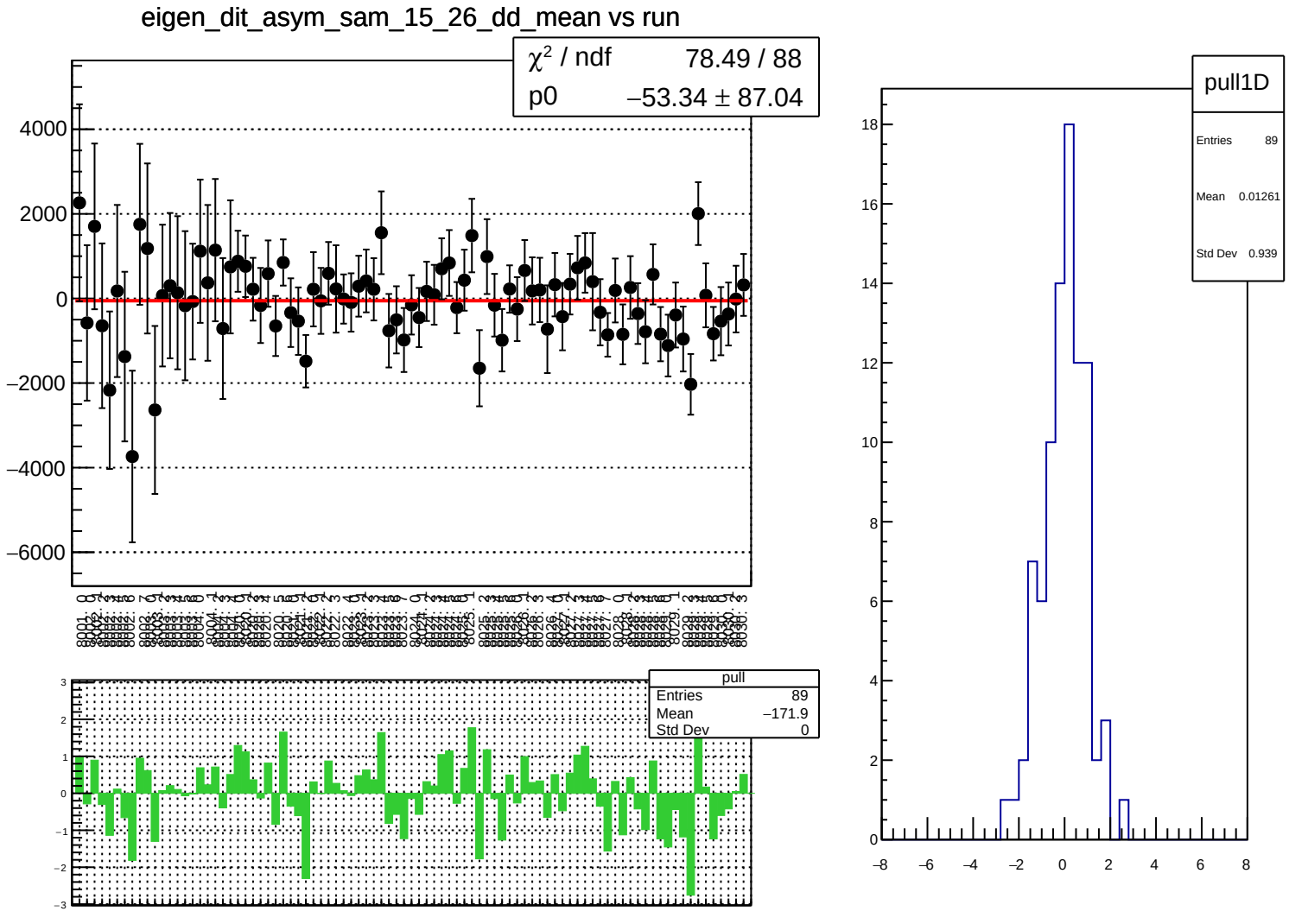

pull1D
Entries 89
Mean 0.01262
Std Dev 0.939
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

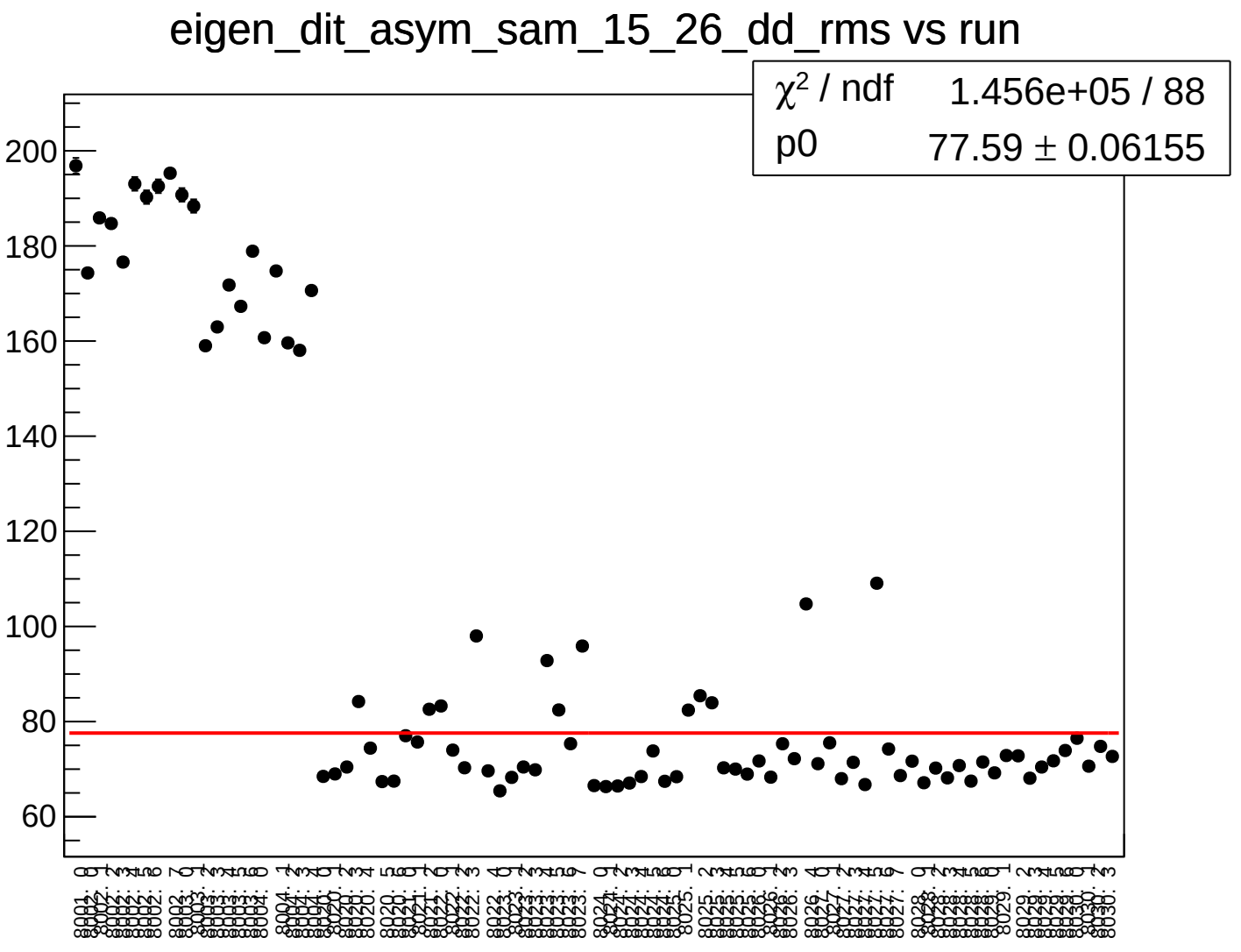

dit_asym_sam_15_26_dd_rms vs run
χ^2 / ndf 1.456e+05 / 88
p0 77.59 ± 0.06155
200
180
160
140
120
100
80
60

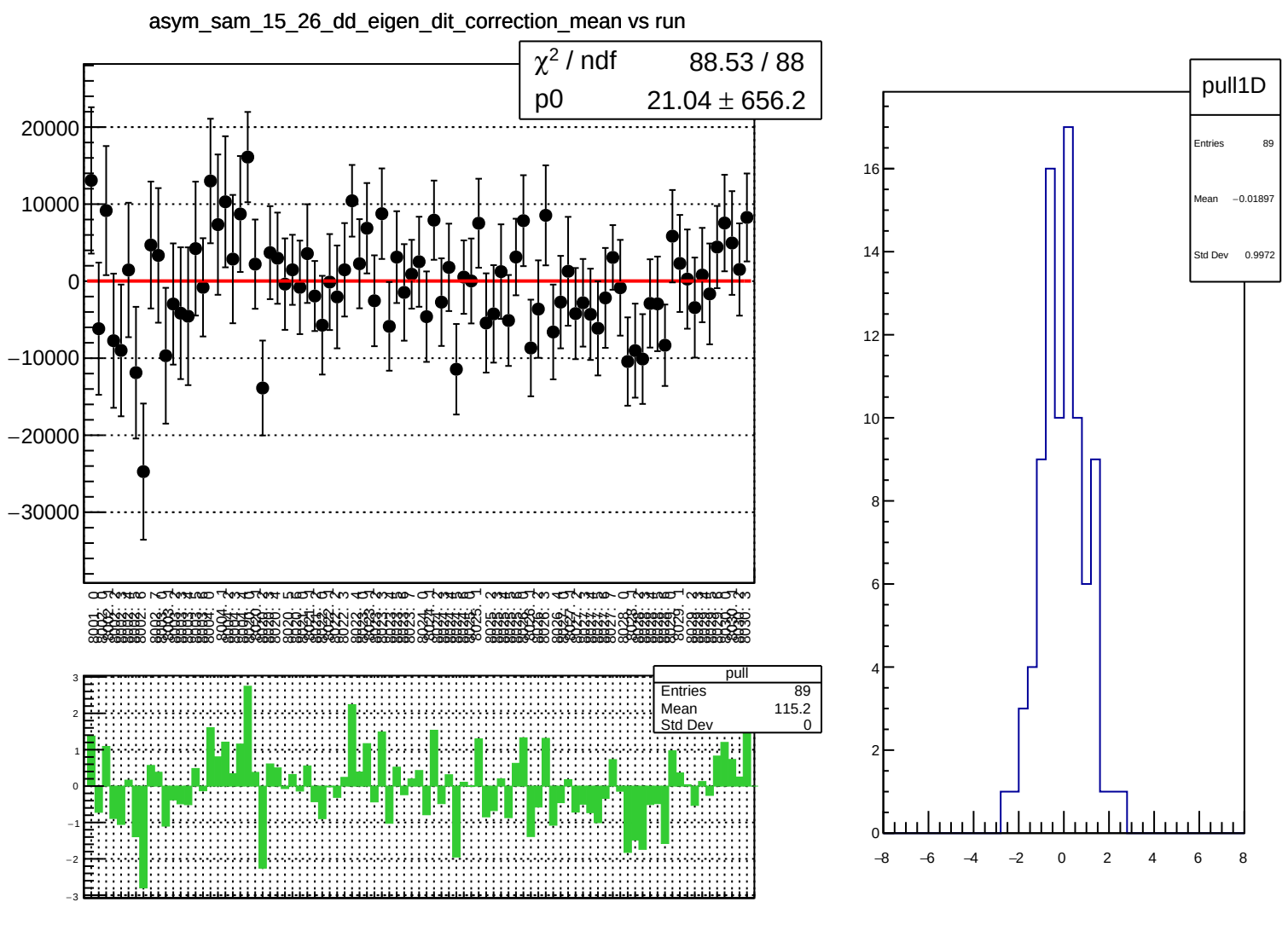

asym_sam_15_26_dd_dit_correction_mean vs run
χ² / ndf 88.53 / 88
p0 21.04 ± 656.2
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 115.2
Std Dev 0
3
2
1
0
−1
−2
−3

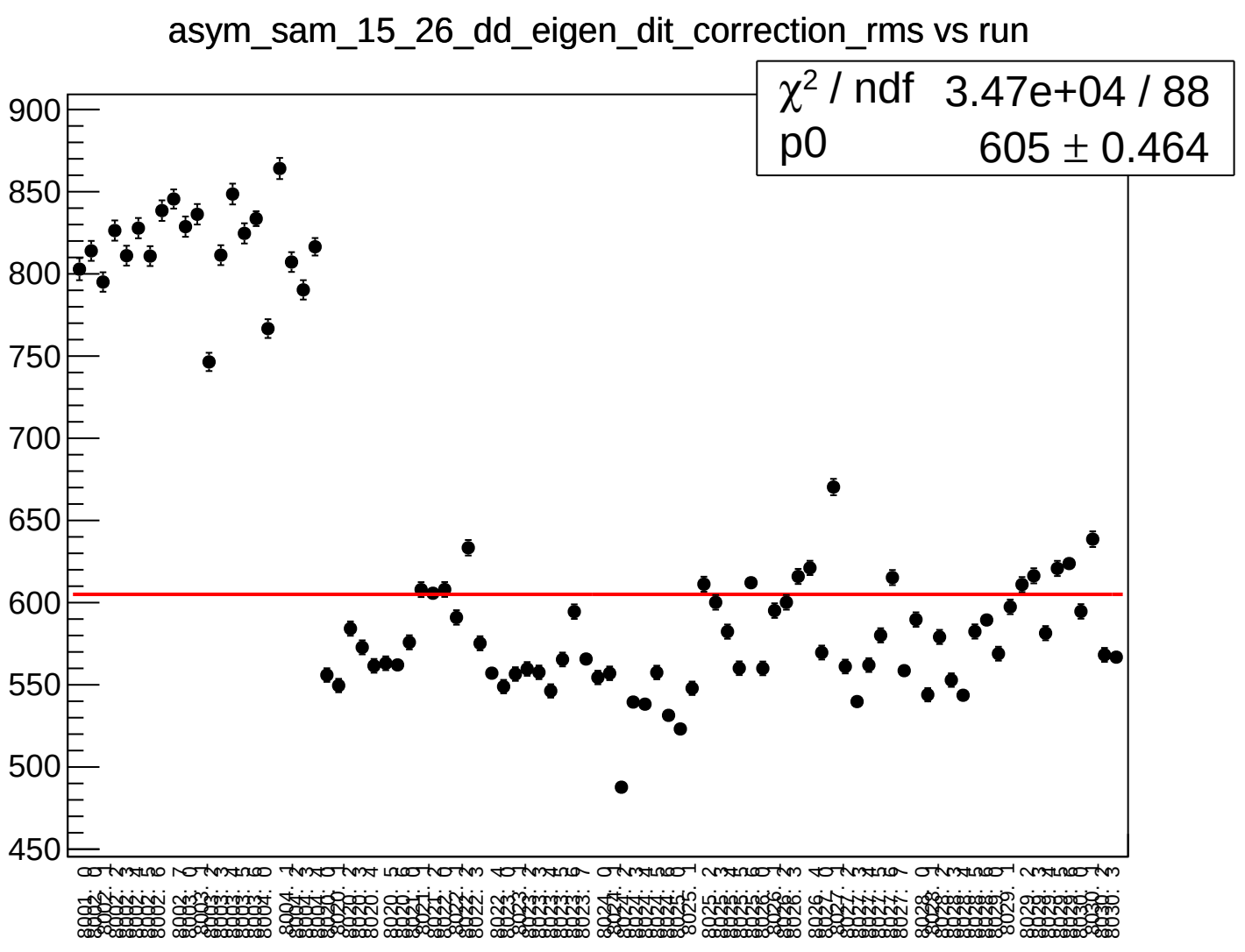

pull1D
Entries 89
Mean −0.01897
Std Dev 0.9972
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

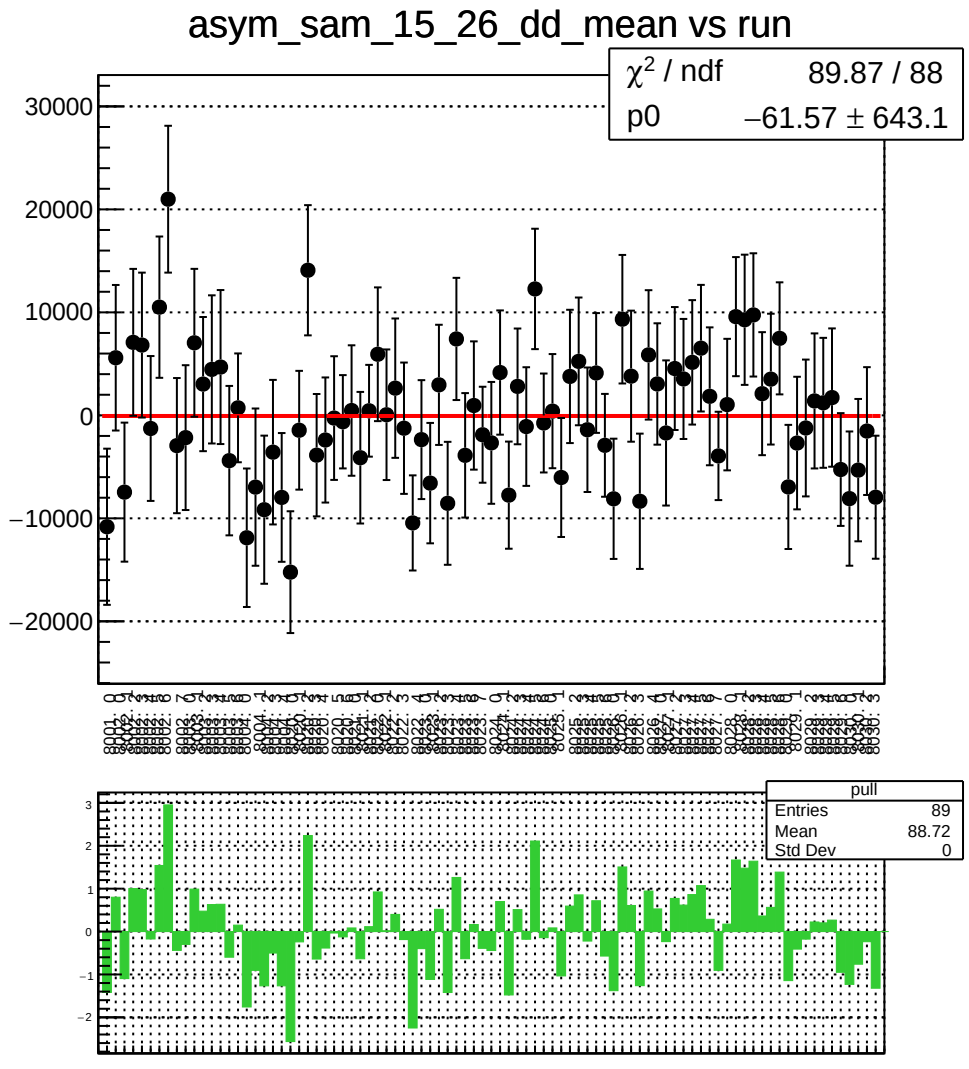

asym_sam_15_26_dd_dit_correction_rms vs run
χ² / ndf 3.47e+04 / 88
p0 605 ± 0.464
900
850
800
750
700
650
600
550
500
450

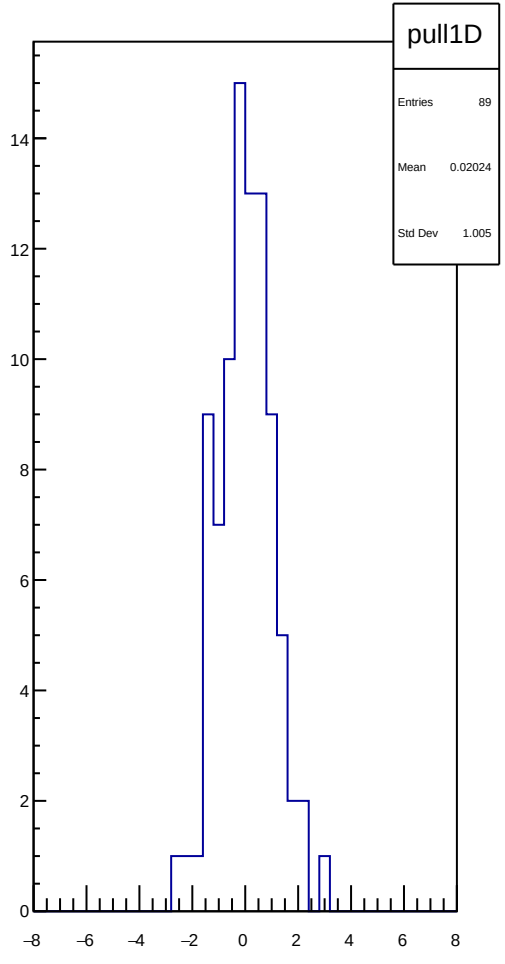

eigen_dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 78.49 / 88
p0 −53.34 ± 87.04
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean −171.9
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean 0.01261
Std Dev 0.939
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

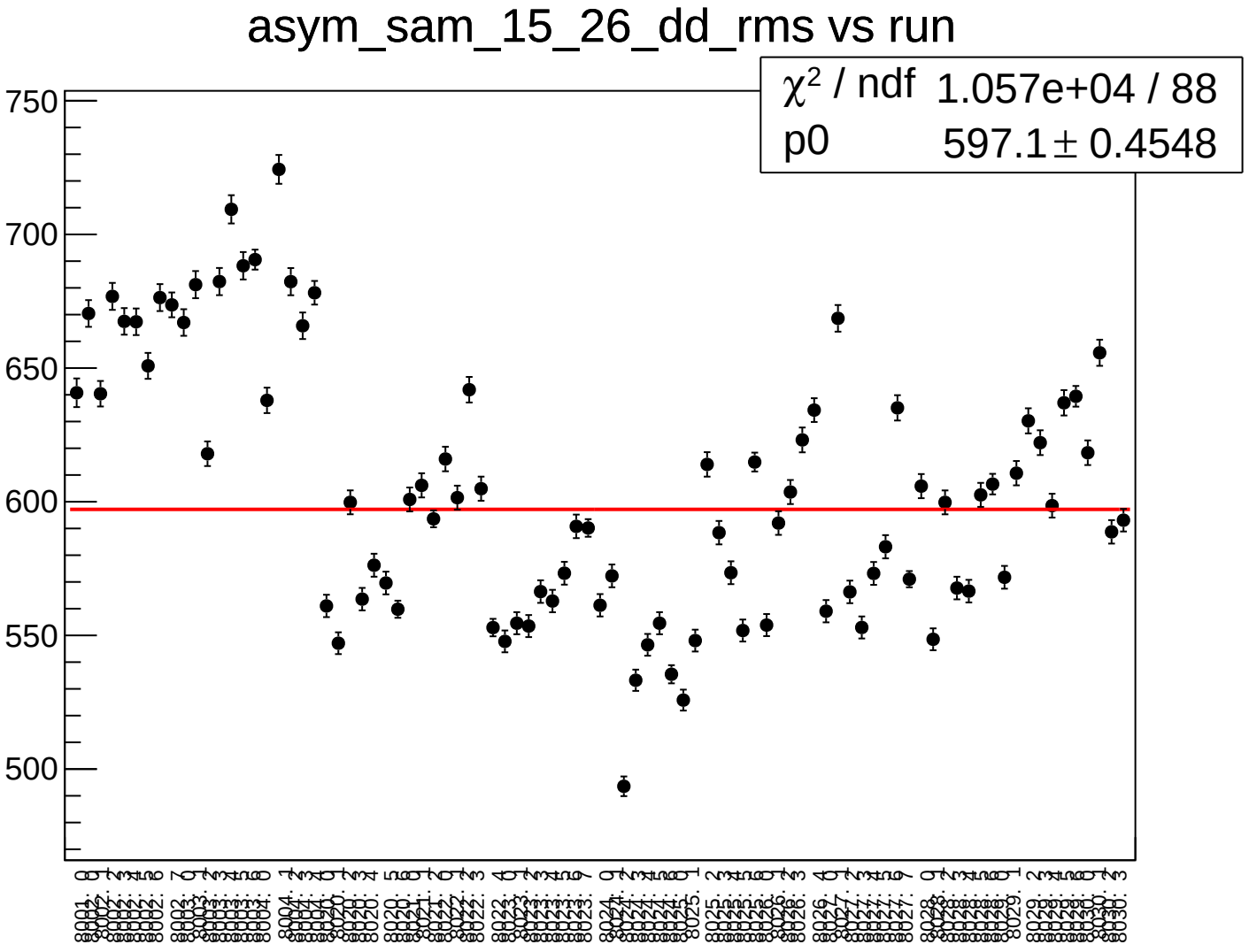

eigen_dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 1.456e+05 / 88
p0 77.59 ± 0.06155
200
180
160
140
120
100
80
60

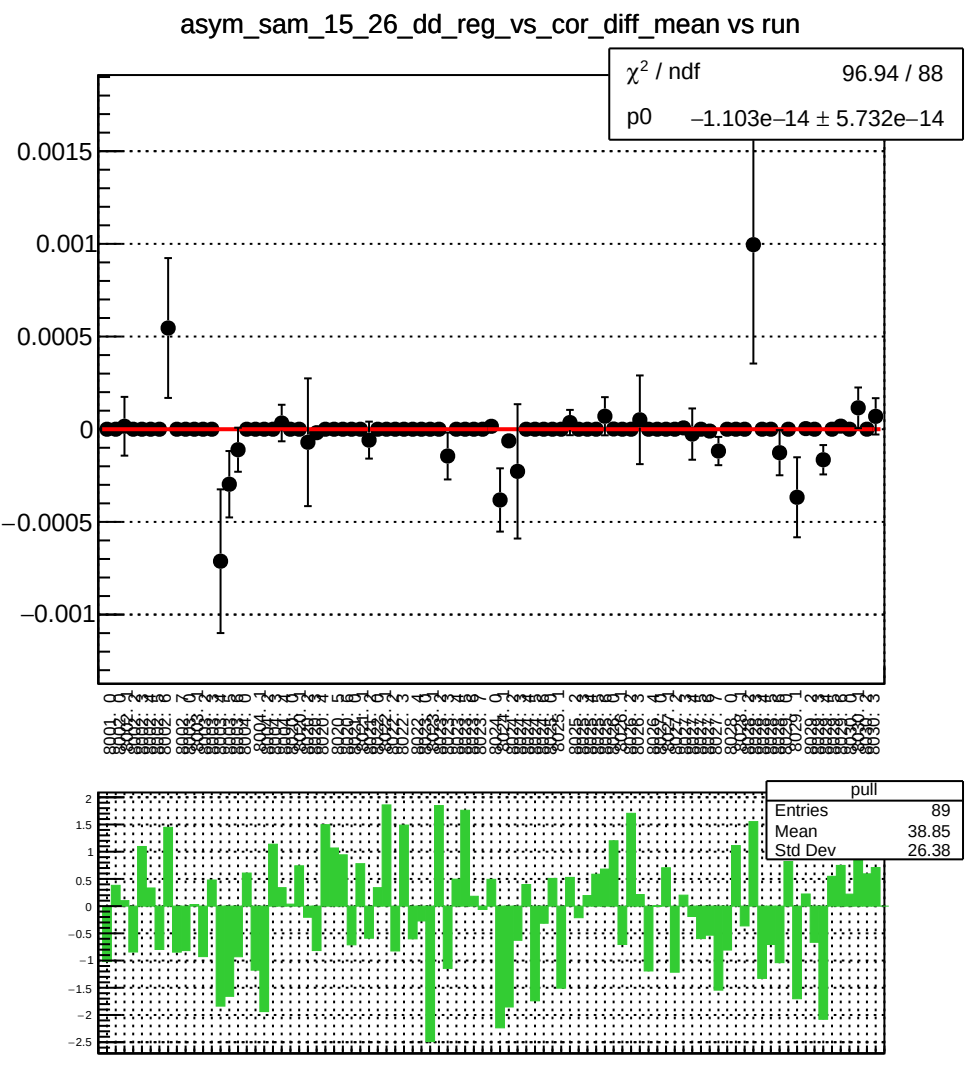

asym_sam_15_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 88.53 / 88
p0 21.04 ± 656.2
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 115.2
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.01897
Std Dev 0.9972
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

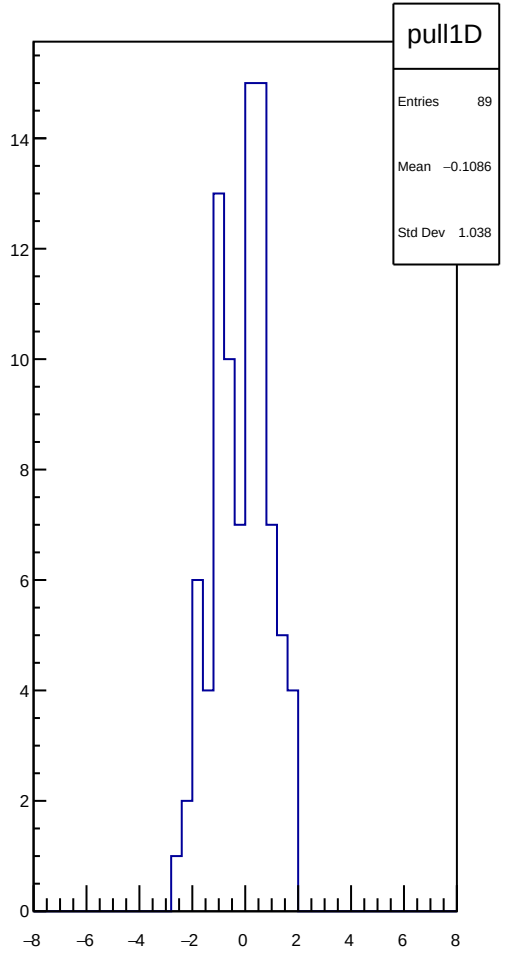

asym_sam_15_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.47e+04 / 88
p0 605 ± 0.464
900
850
800
750
700
650
600
550
500
450

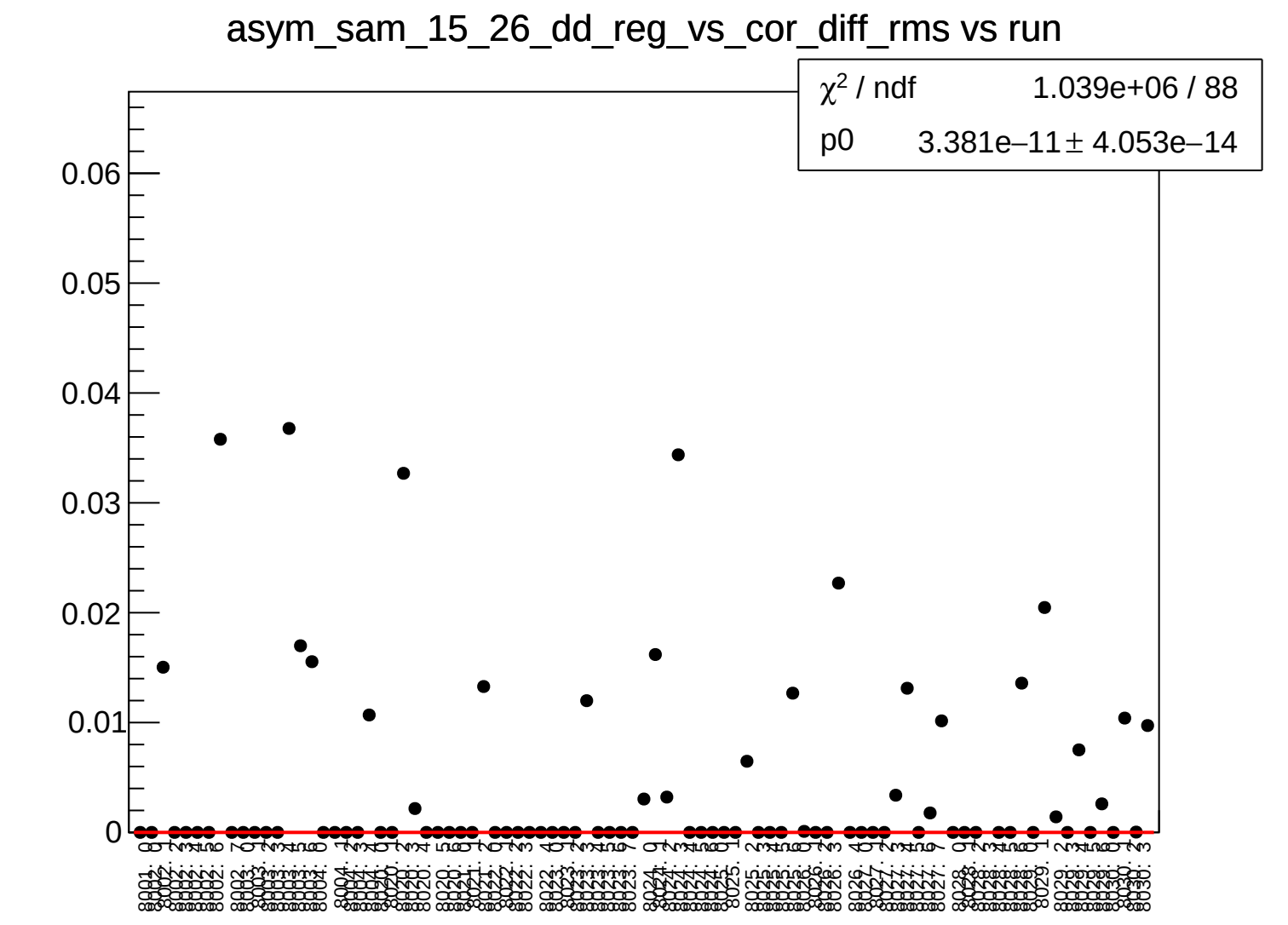

asym_sam_15_26_dd_mean vs run
χ² / ndf 89.87 / 88
p0 −61.57 ± 643.1
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean 88.72
Std Dev 0
3
2
1
0
−1
−2

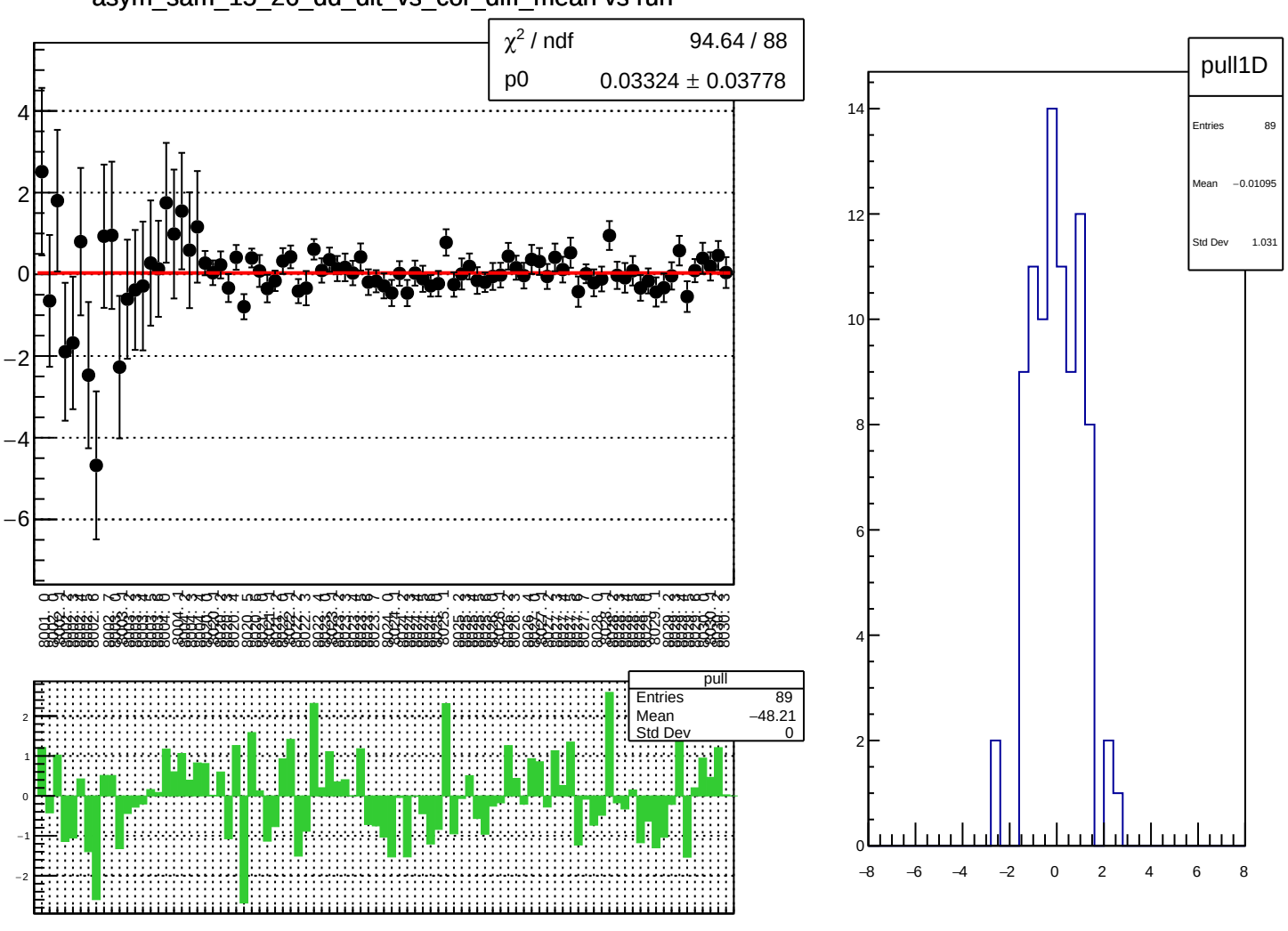

pull1D
Entries 89
Mean 0.02024
Std Dev 1.005
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

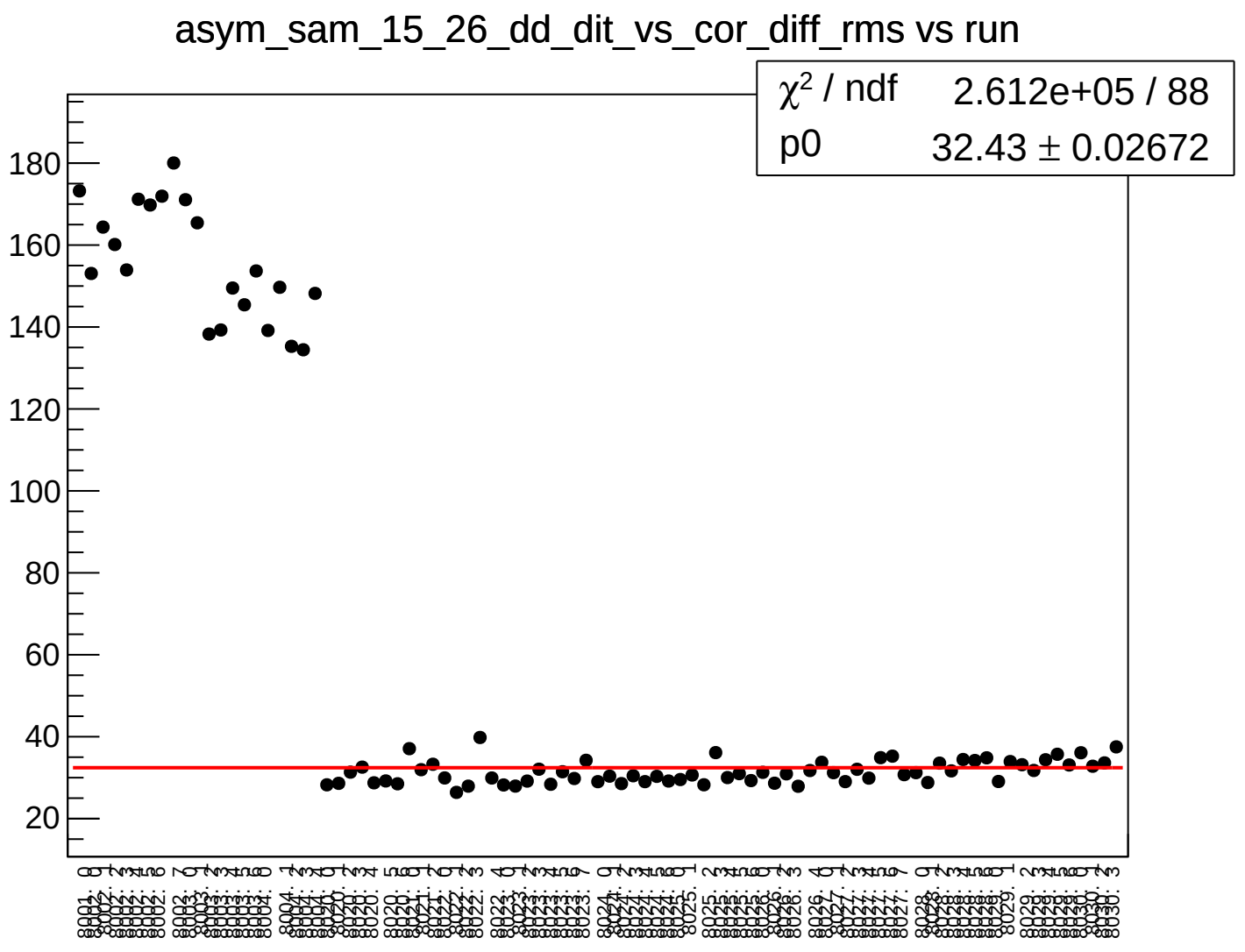

asym_sam_15_26_dd_rms vs run
χ² / ndf 1.057e+04 / 88
p0 597.1 ± 0.4548
750
700
650
600
550
500

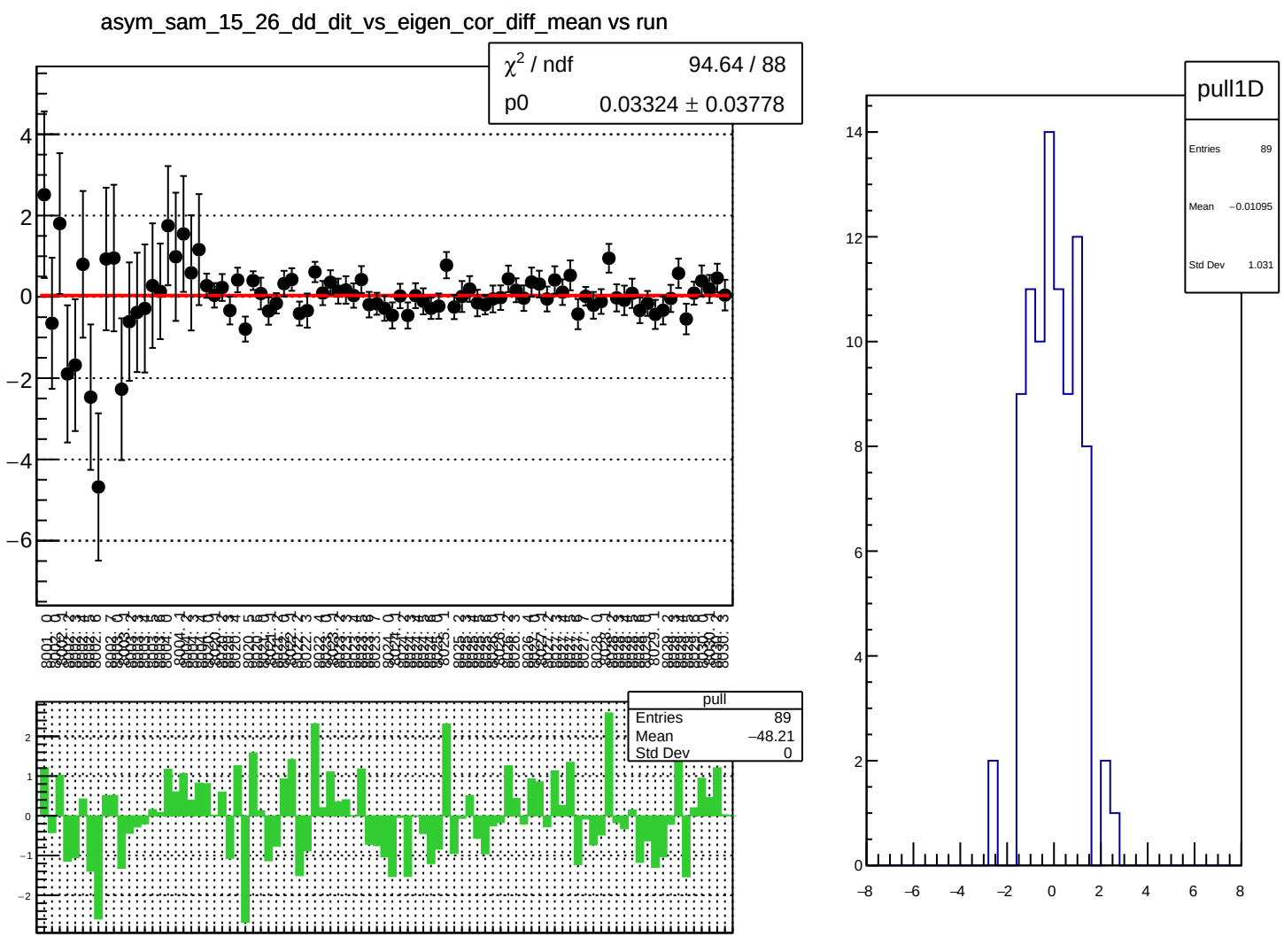

asym_sam_15_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 96.94 / 88
p0 −1.103e−14 ± 5.732e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 89
Mean 38.85
Std Dev 26.38
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

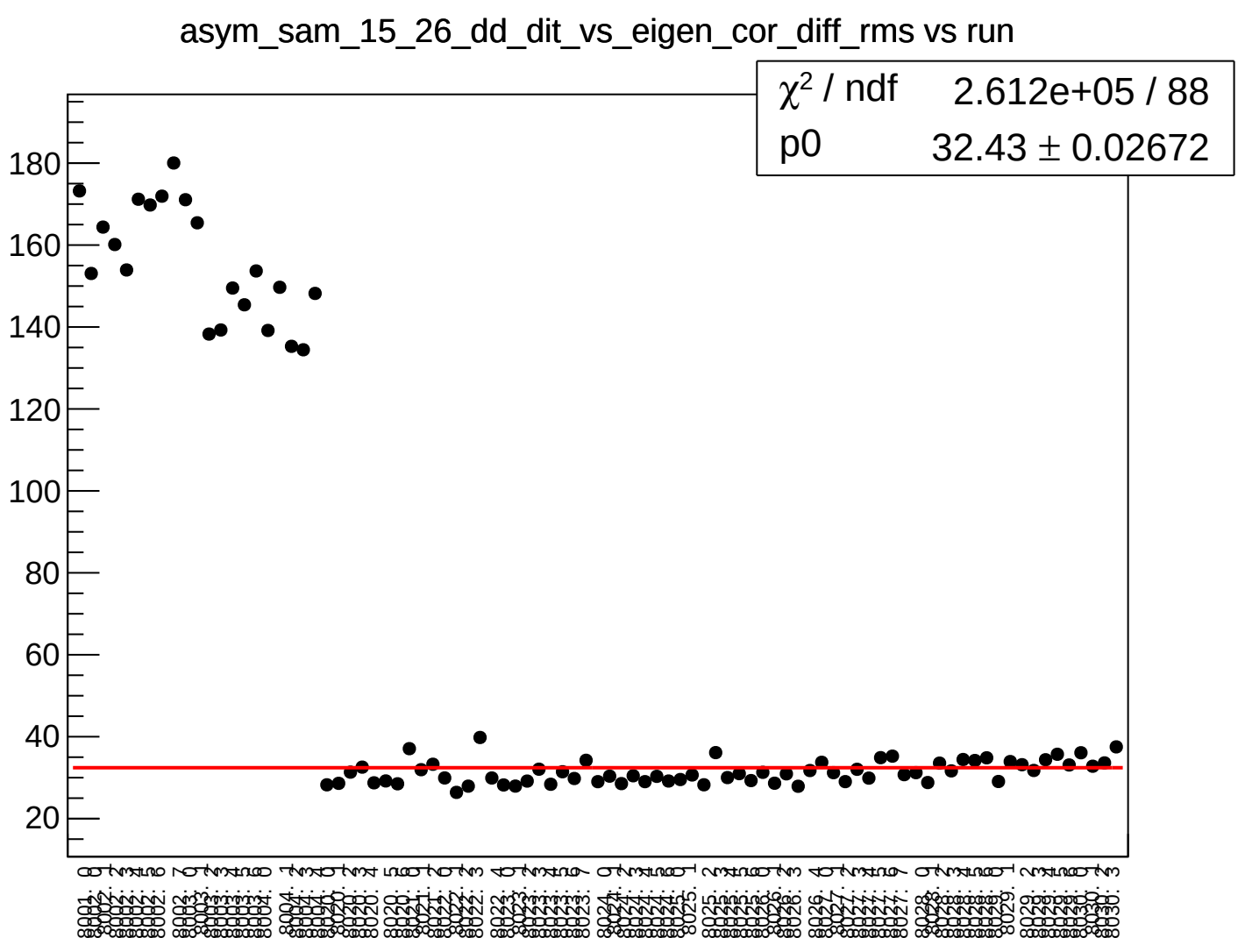

pull1D
Entries 89
Mean −0.1086
Std Dev 1.038
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

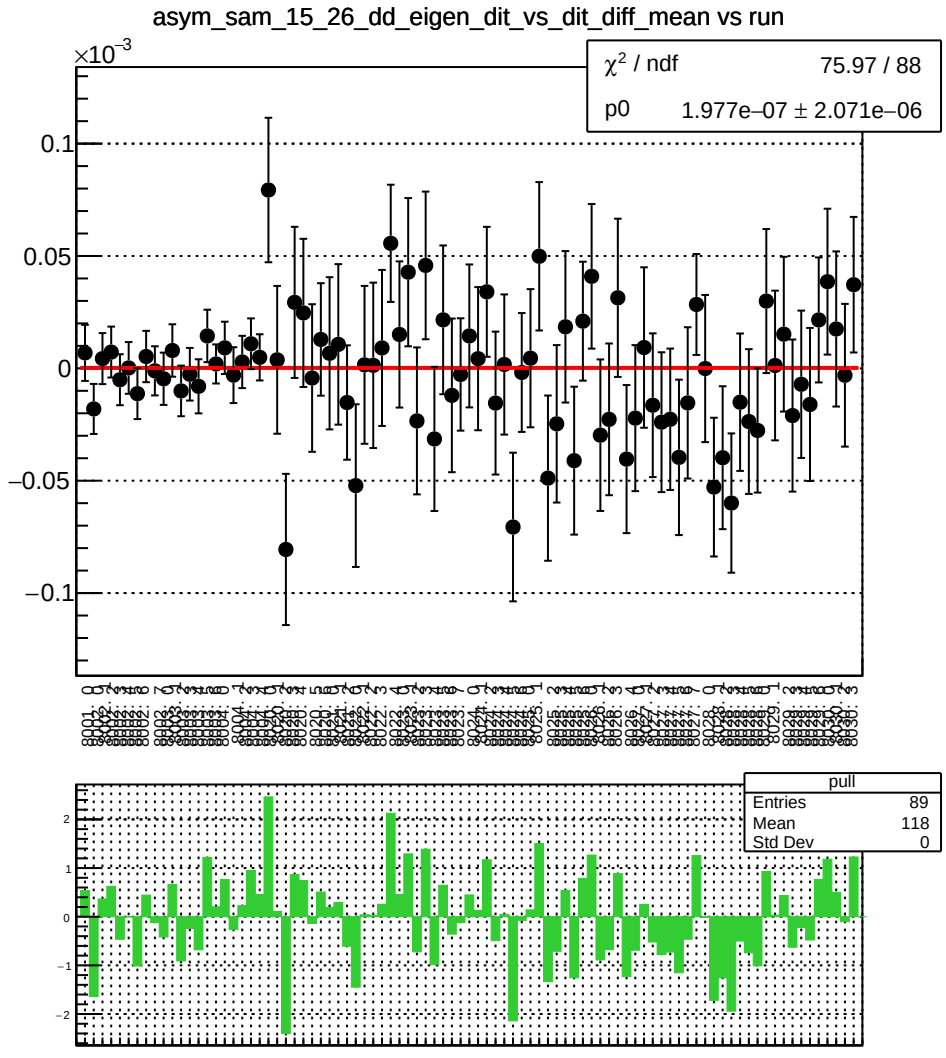

asym_sam_15_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.039e+06 / 88
p0 3.381e−11 ± 4.053e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

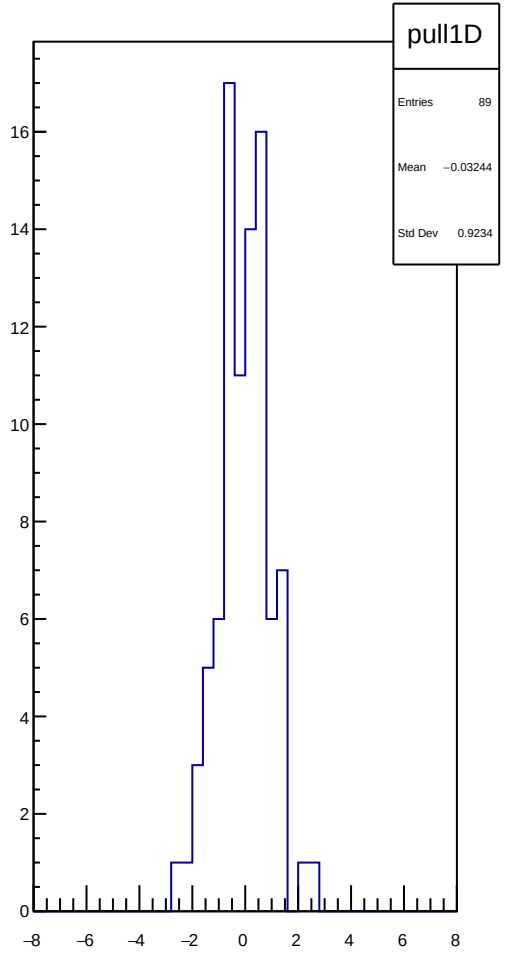

asym_sam_15_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 94.64 / 88
p0 0.03324 ± 0.03778
pull
Entries 89
Mean −48.21
Std Dev 0
pull1D
Entries 89
Mean −0.01095
Std Dev 1.031

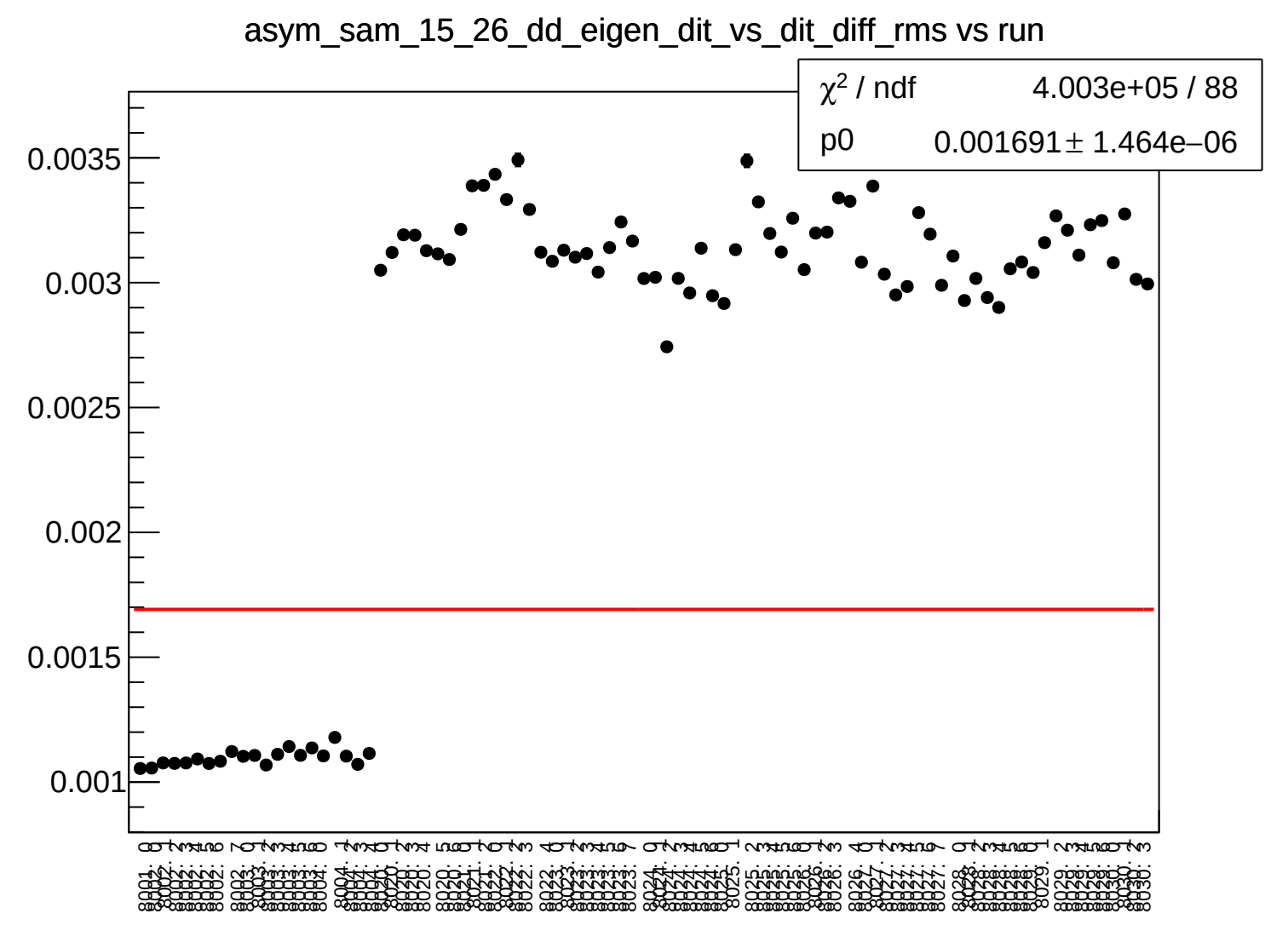

asym_sam_15_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.612e+05 / 88
p0 32.43 ± 0.02672
180
160
140
120
100
80
60
40
20

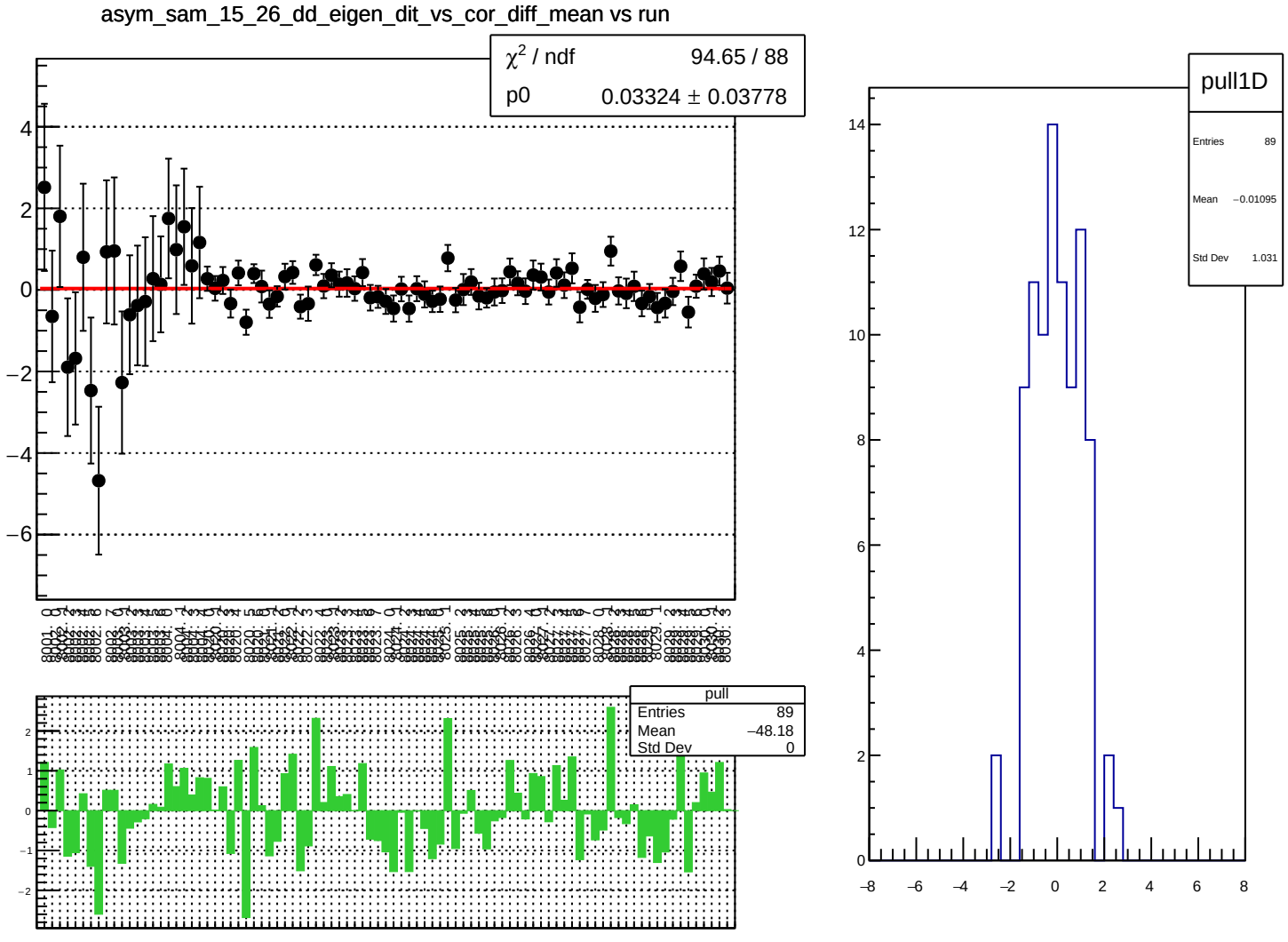

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.64 / 88
p0 0.03324 ± 0.03778
pull
Entries 89
Mean −48.21
Std Dev 0
pull1D
Entries 89
Mean −0.01095
Std Dev 1.031

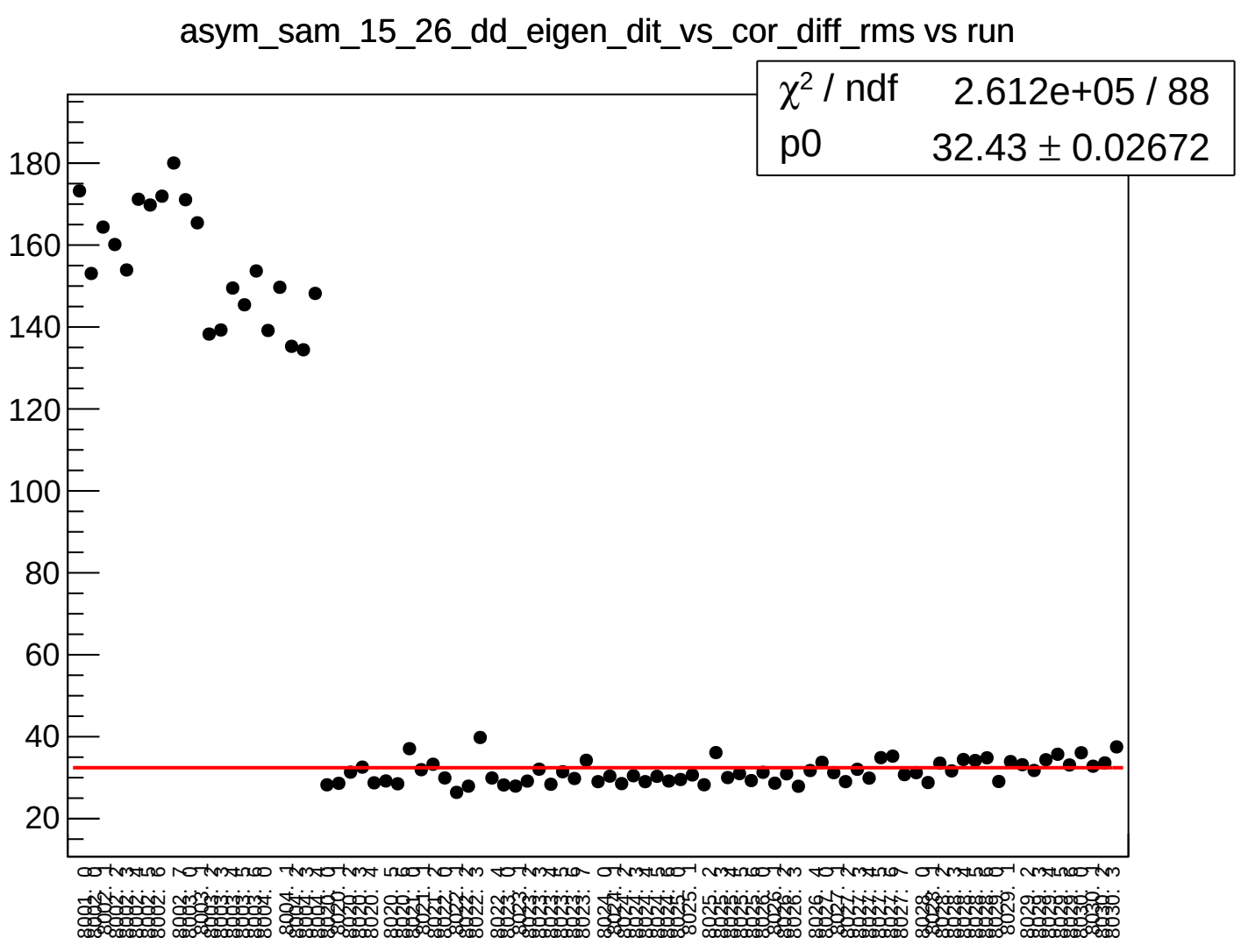

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.612e+05 / 88
p0 32.43 ± 0.02672
180
160
140
120
100
80
60
40
20

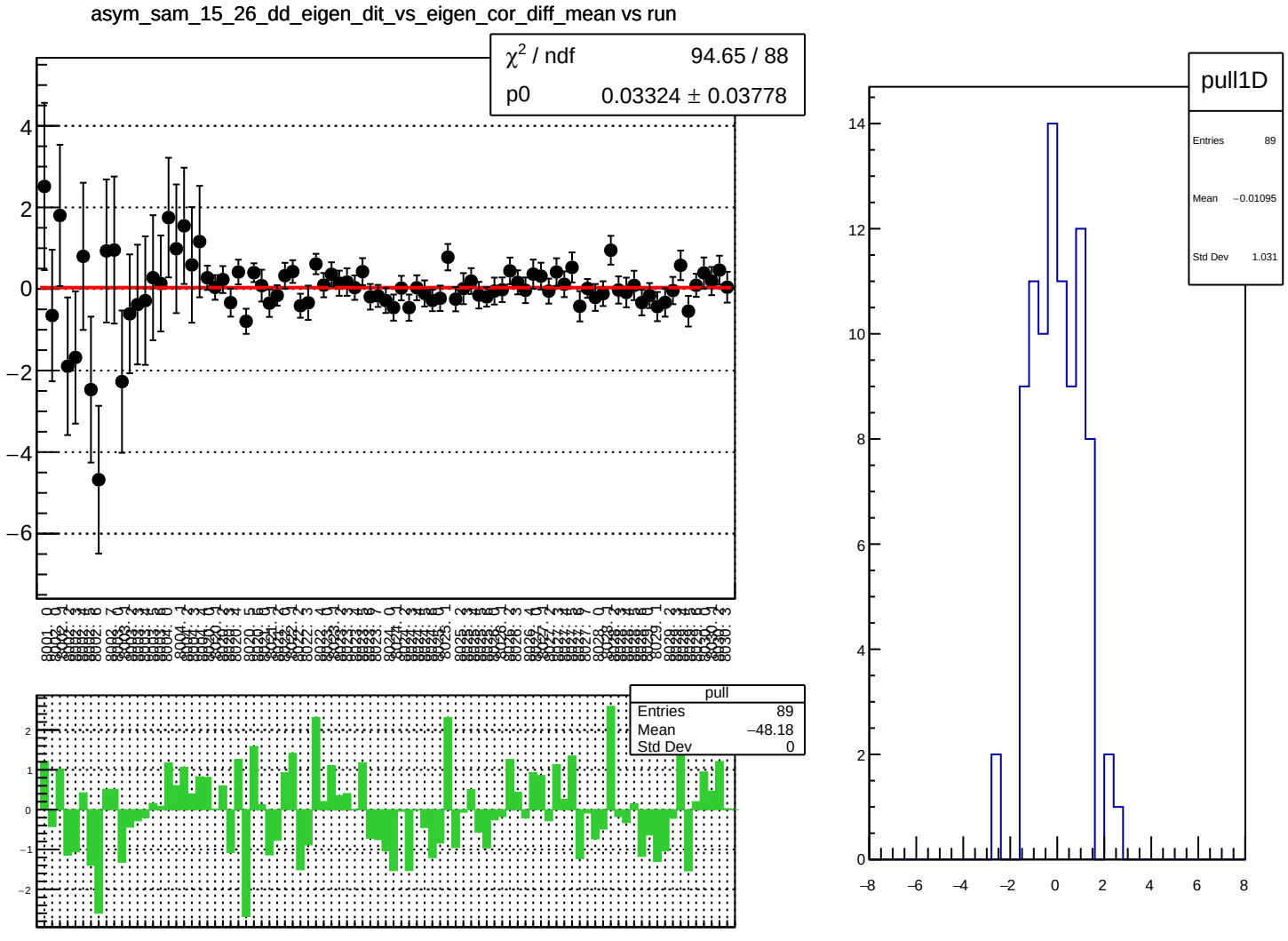

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 75.97 / 88
p0 1.977e−07 ± 2.071e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 89
Mean 118
Std Dev 0
2
1
0
−1
−2

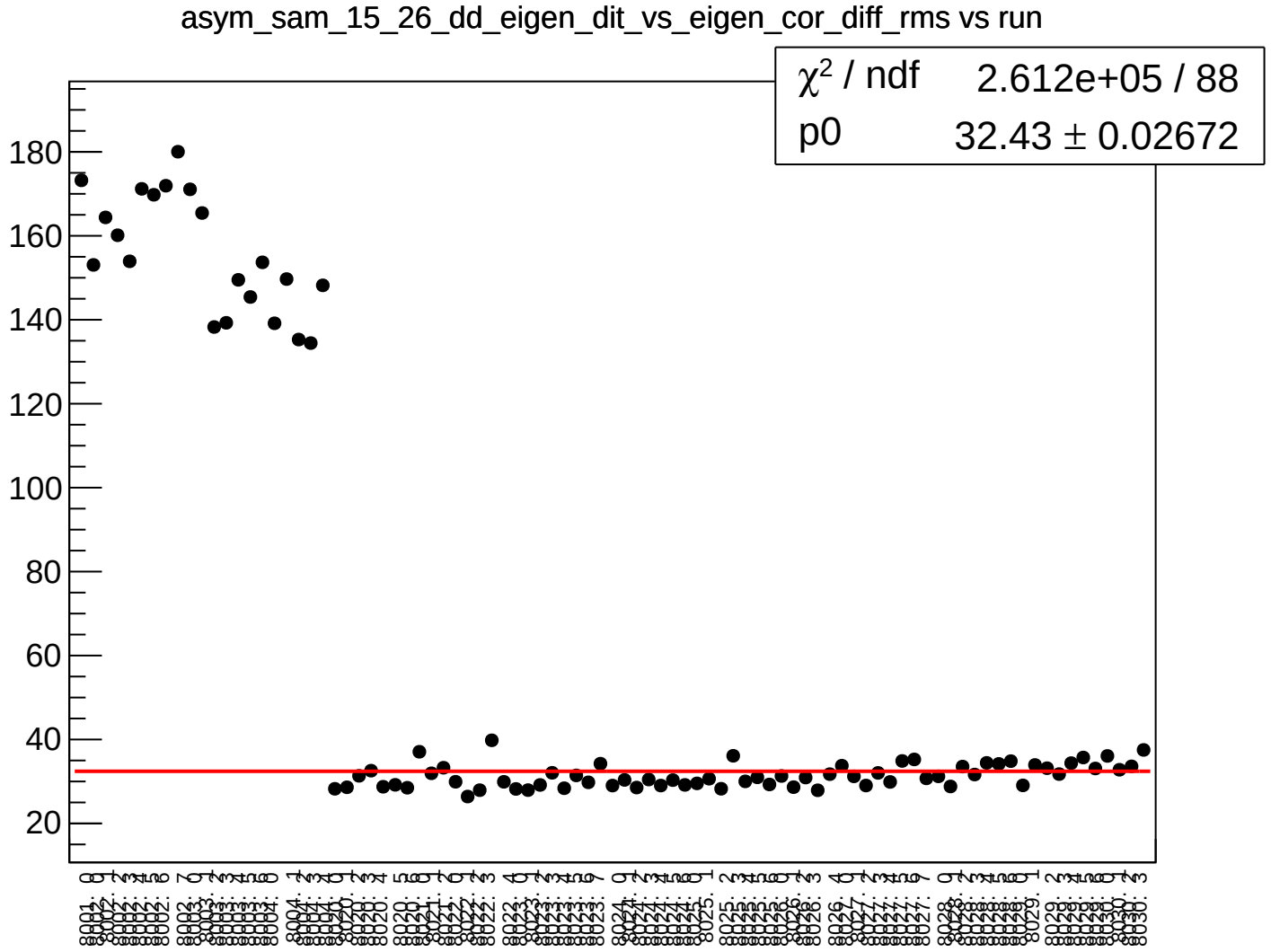

pull1D
Entries 89
Mean −0.03244
Std Dev 0.9234
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

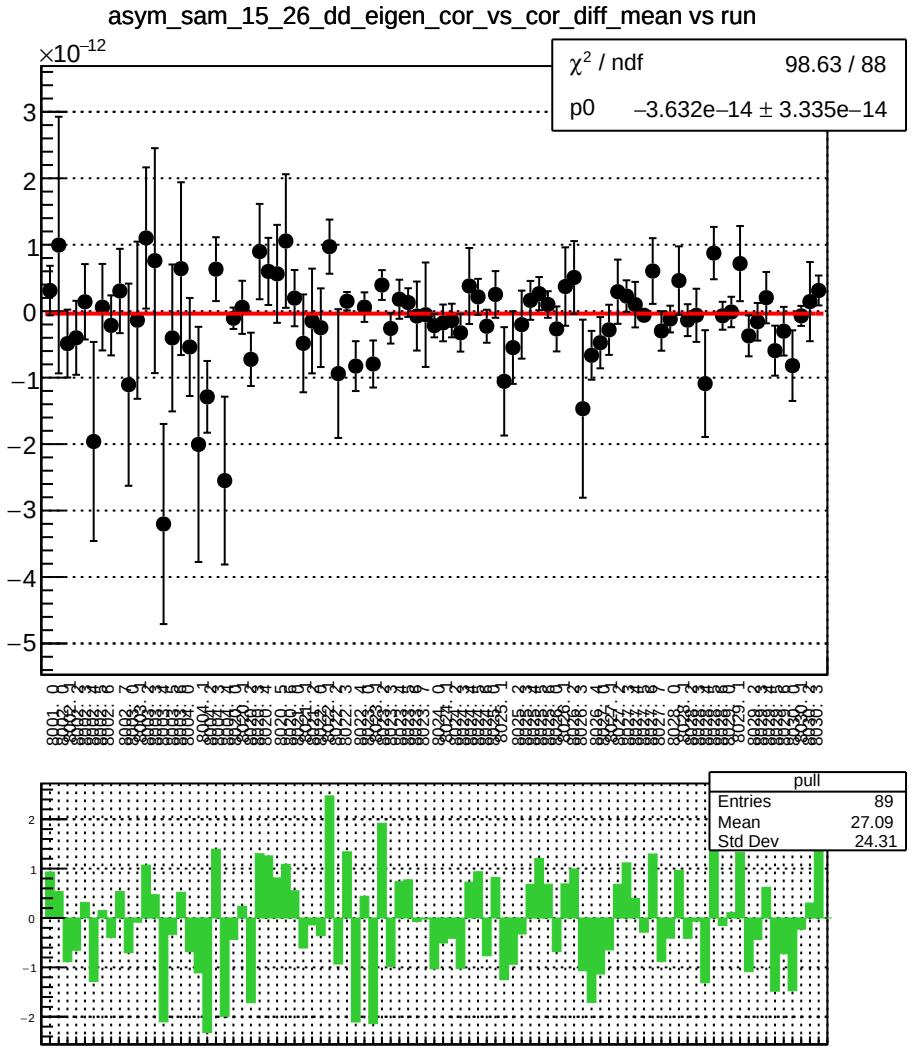

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ2 / ndf 4.003e+05 / 88
p0 0.001691 ± 1.464e−06
0.0035
0.003
0.0025
0.002
0.0015
0.001

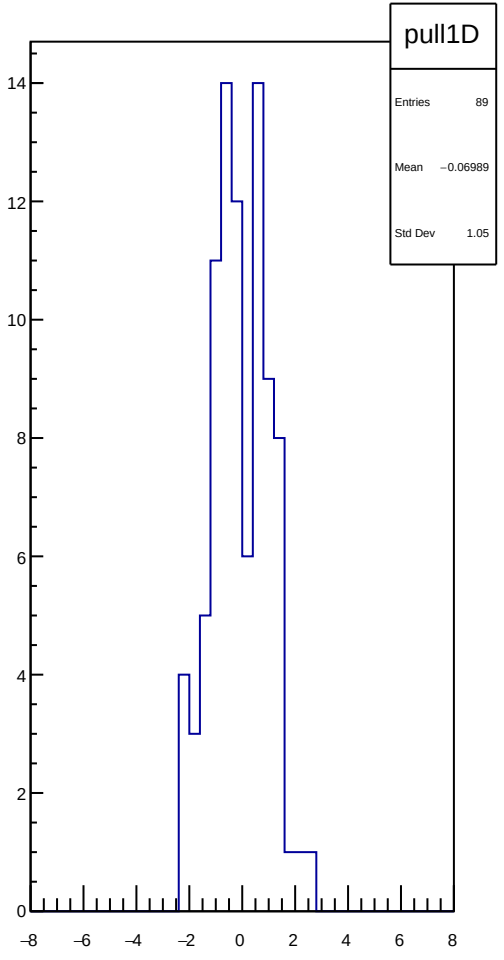

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.65 / 88
p0 0.03324 ± 0.03778
pull
Entries 89
Mean −48.18
Std Dev 0
pull1D
Entries 89
Mean −0.01095
Std Dev 1.031

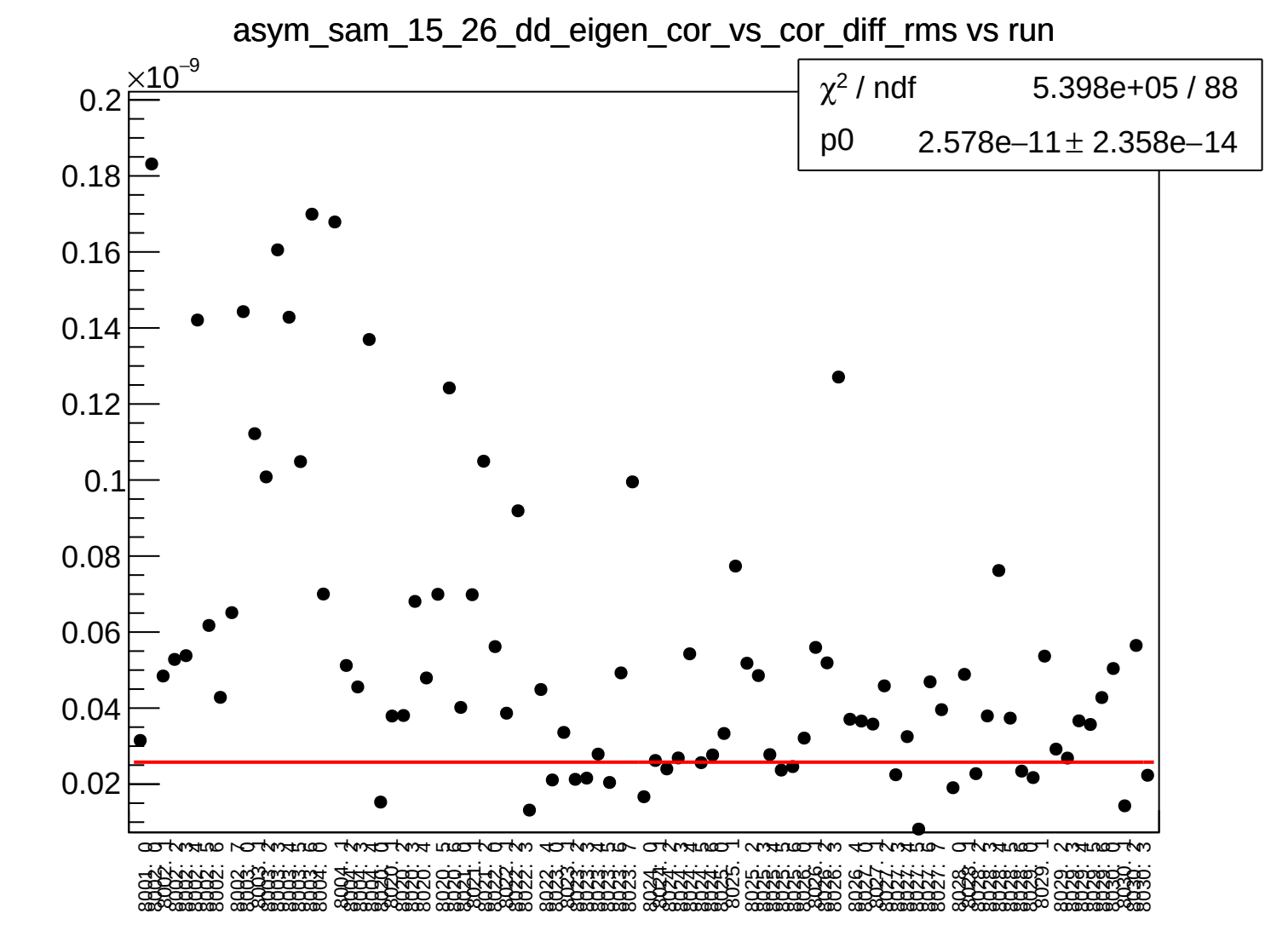

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.612e+05 / 88
p0 32.43 ± 0.02672
180
160
140
120
100
80
60
40
20

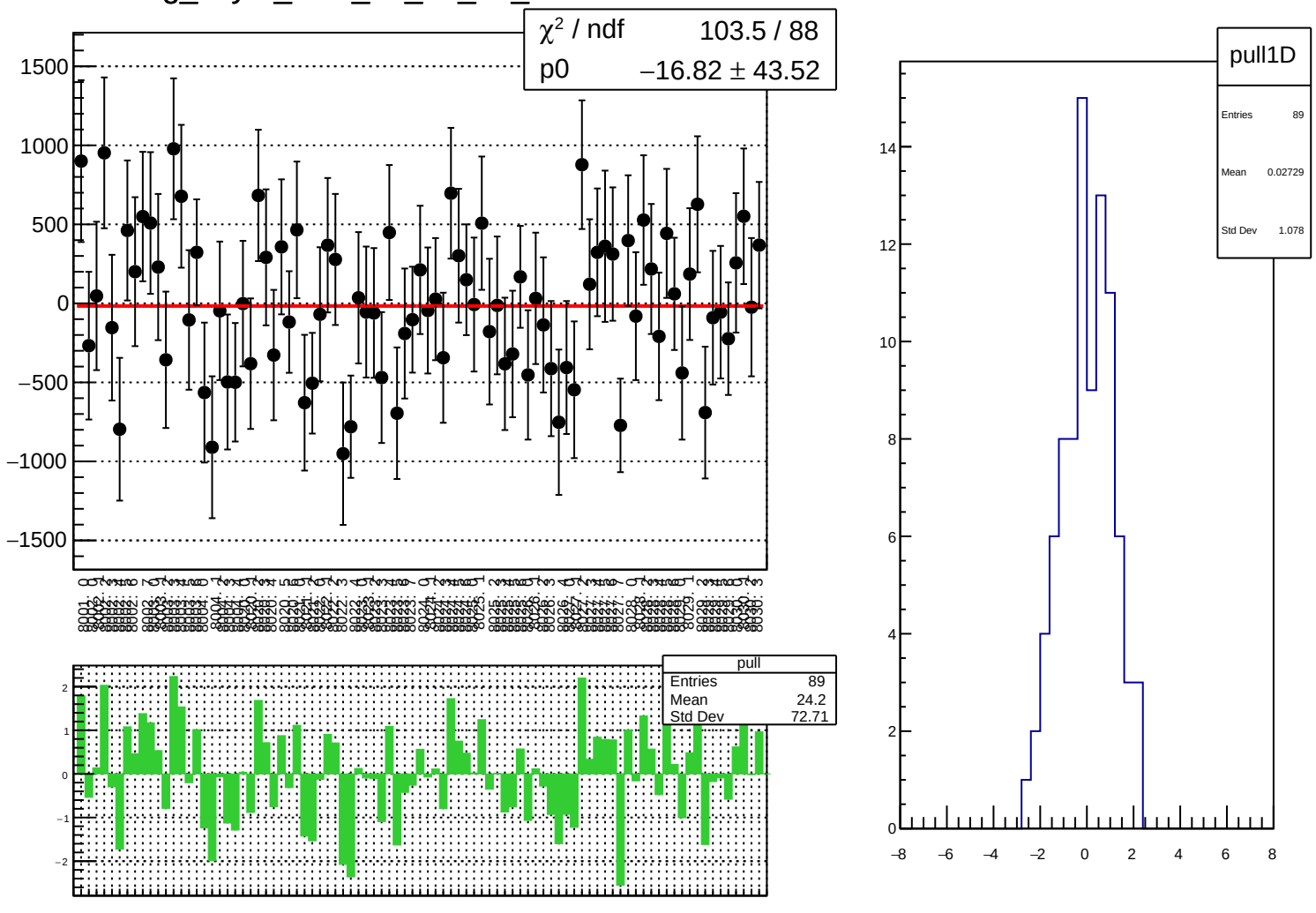

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.65 / 88
p0 0.03324 ± 0.03778
pull
Entries 89
Mean −48.18
Std Dev 0
pull1D
Entries 89
Mean −0.01095
Std Dev 1.031

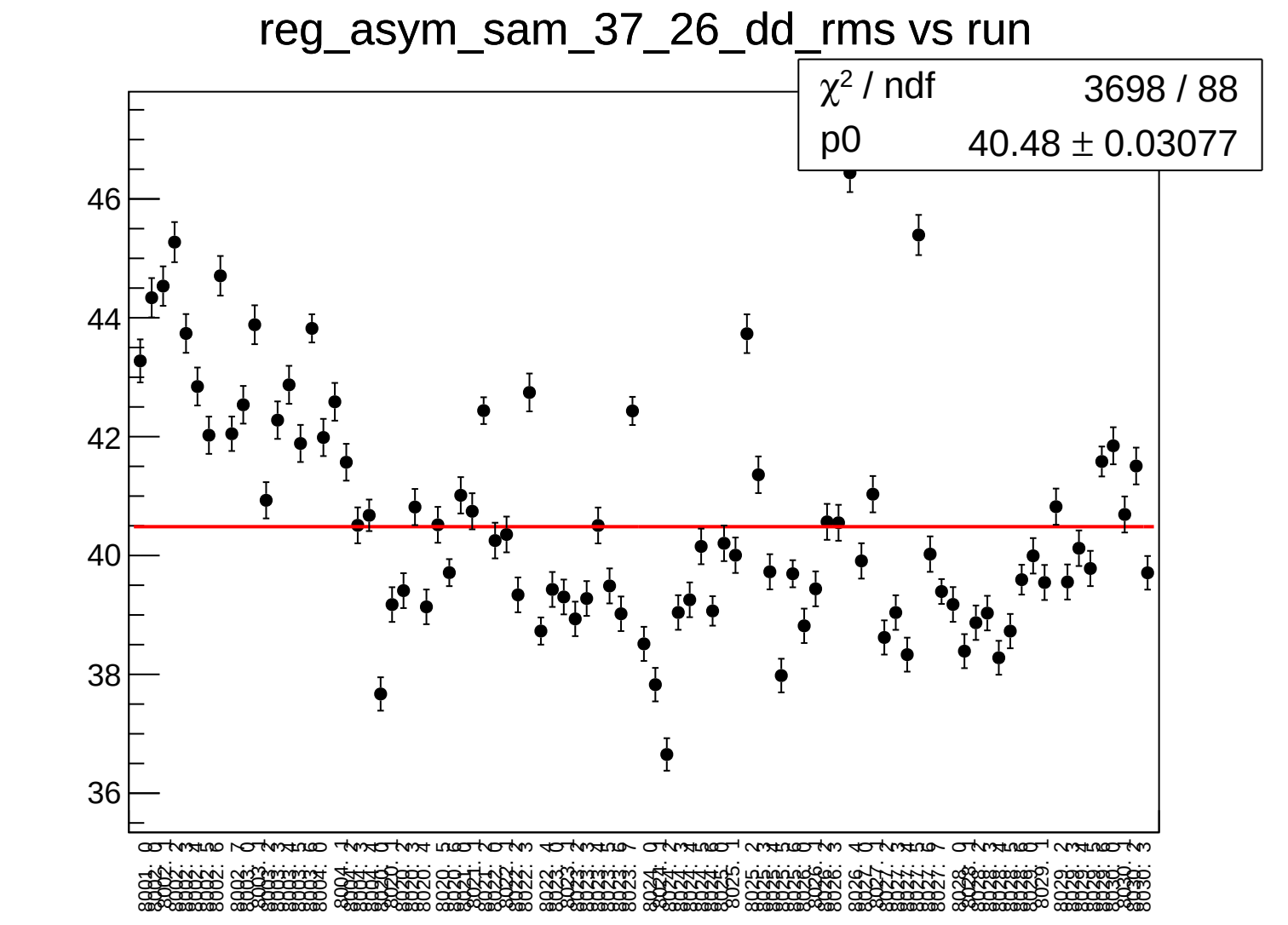

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.612e+05 / 88
p0 32.43 ± 0.02672
180
160
140
120
100
80
60
40
20

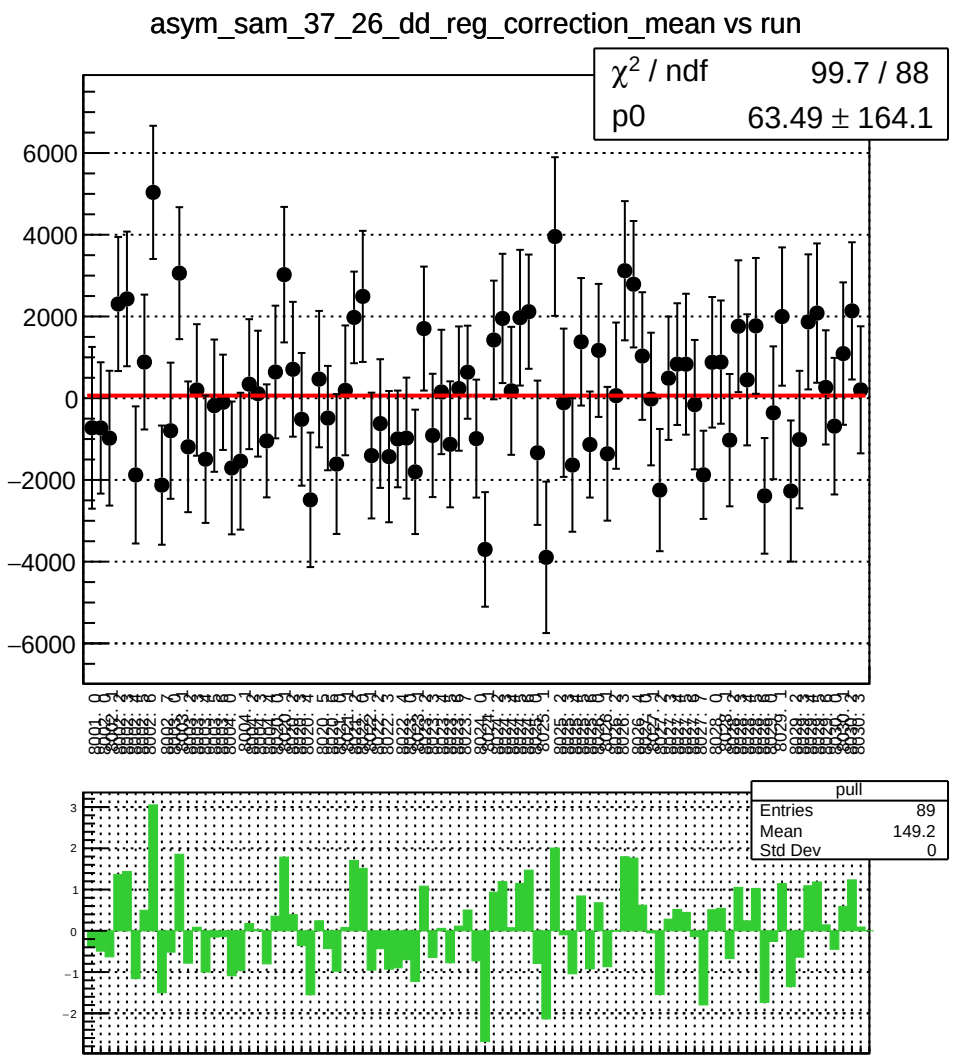

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.63 / 88
p0 −3.632e−14 ± 3.335e−14
pull
Entries 89
Mean 27.09
Std Dev 24.31

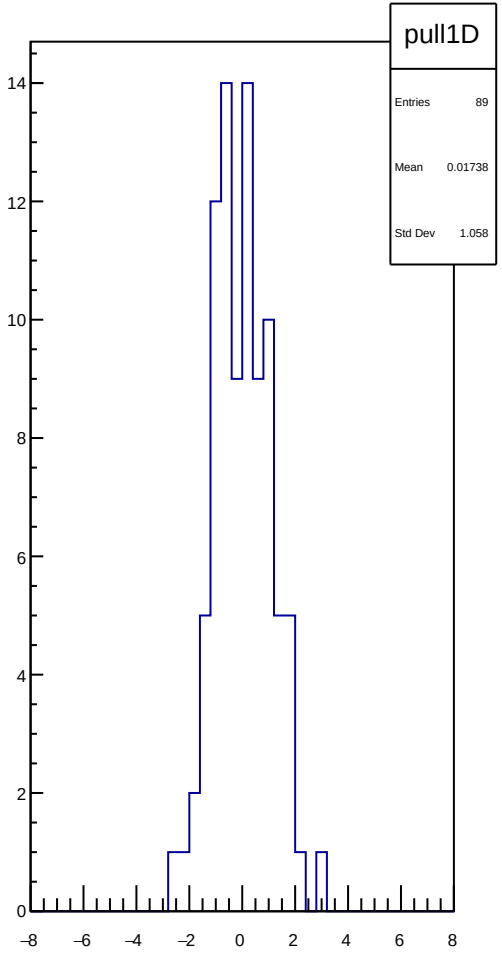

pull1D
Entries 89
Mean −0.06989
Std Dev 1.05

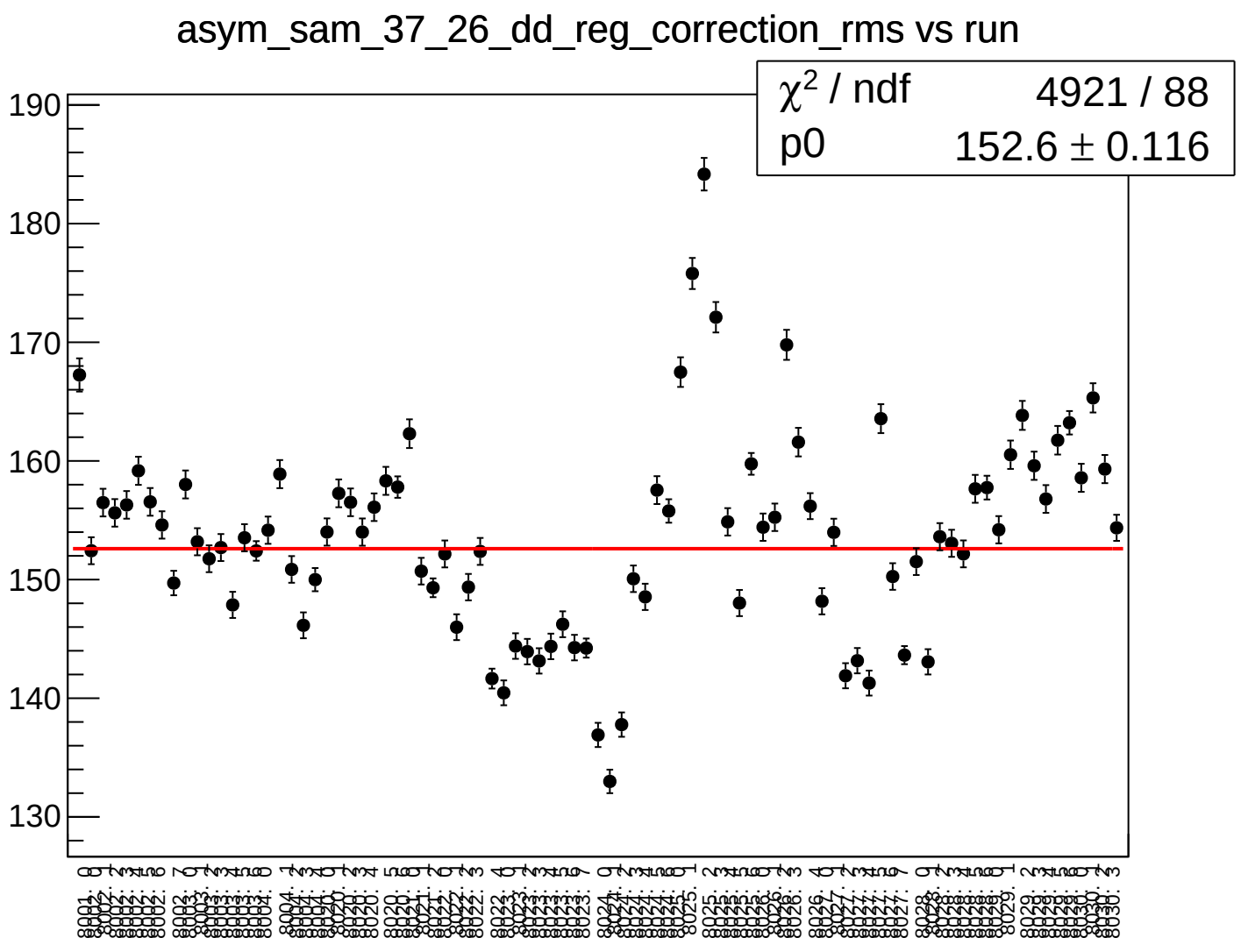

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.398e+05 / 88
p0 2.578e−11 ± 2.358e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

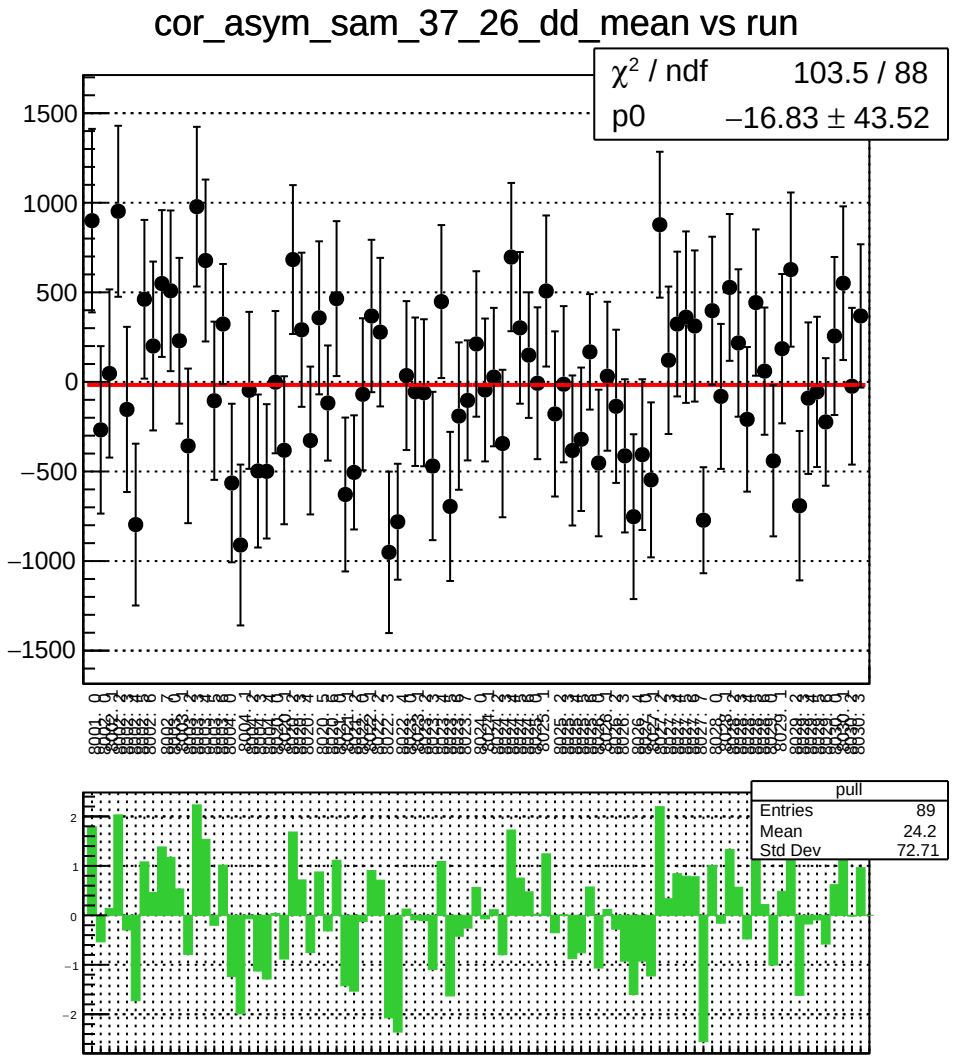

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 103.5 / 88
p0 −16.82 ± 43.52
pull
Entries 89
Mean 24.2
Std Dev 72.71
pull1D
Entries 89
Mean 0.02729
Std Dev 1.078

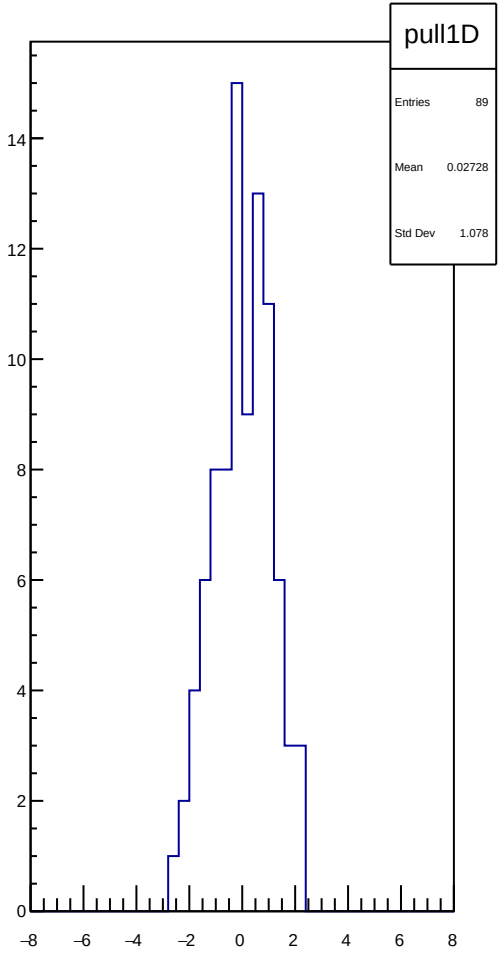

reg_asym_sam_37_26_dd_rms vs run
χ² / ndf 3698 / 88
p0 40.48 ± 0.03077
46
44
42
40
38
36

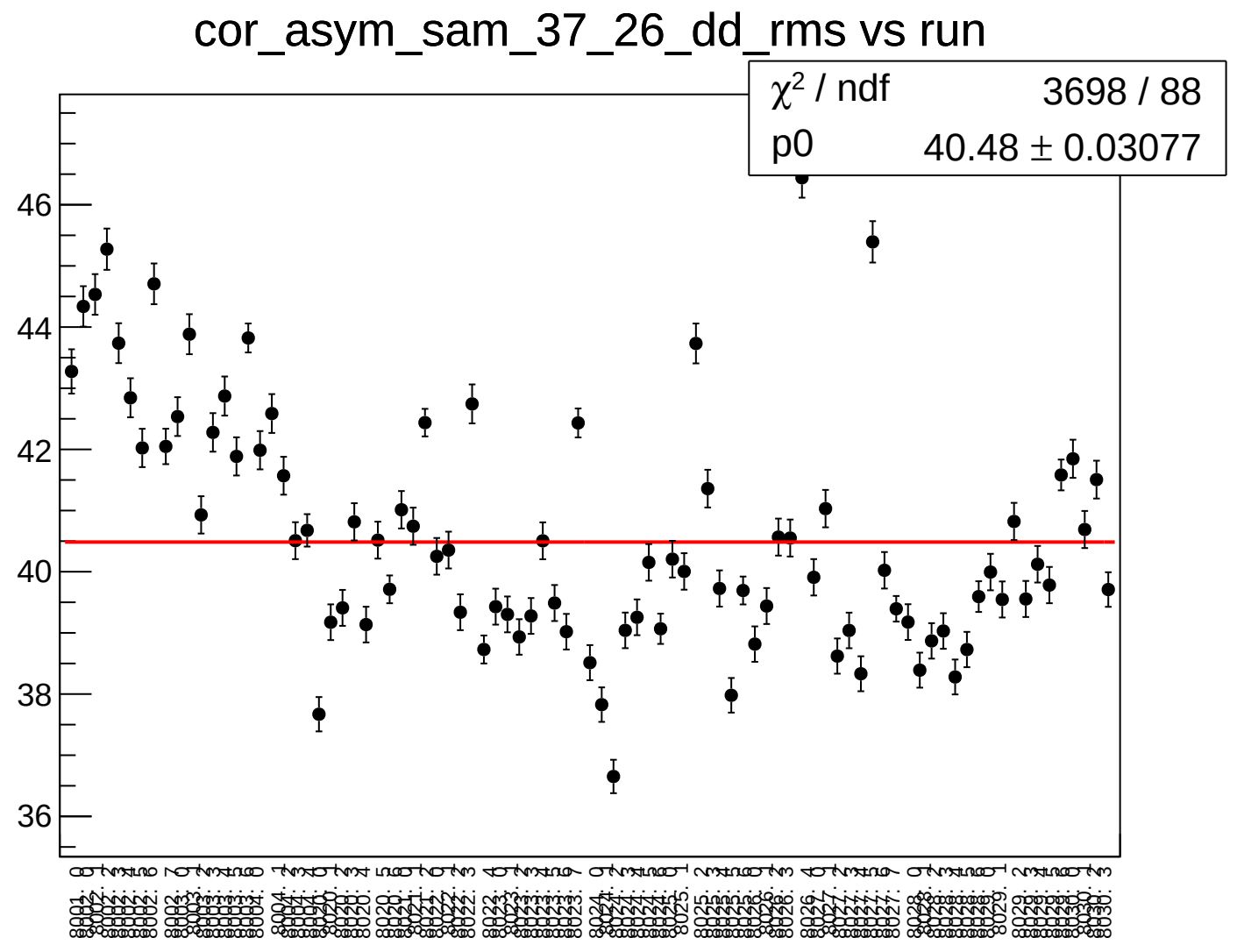

asym_sam_37_26_dd_reg_correction_mean vs run
χ² / ndf 99.7 / 88
p0 63.49 ± 164.1
pull
Entries 89
Mean 149.2
Std Dev 0

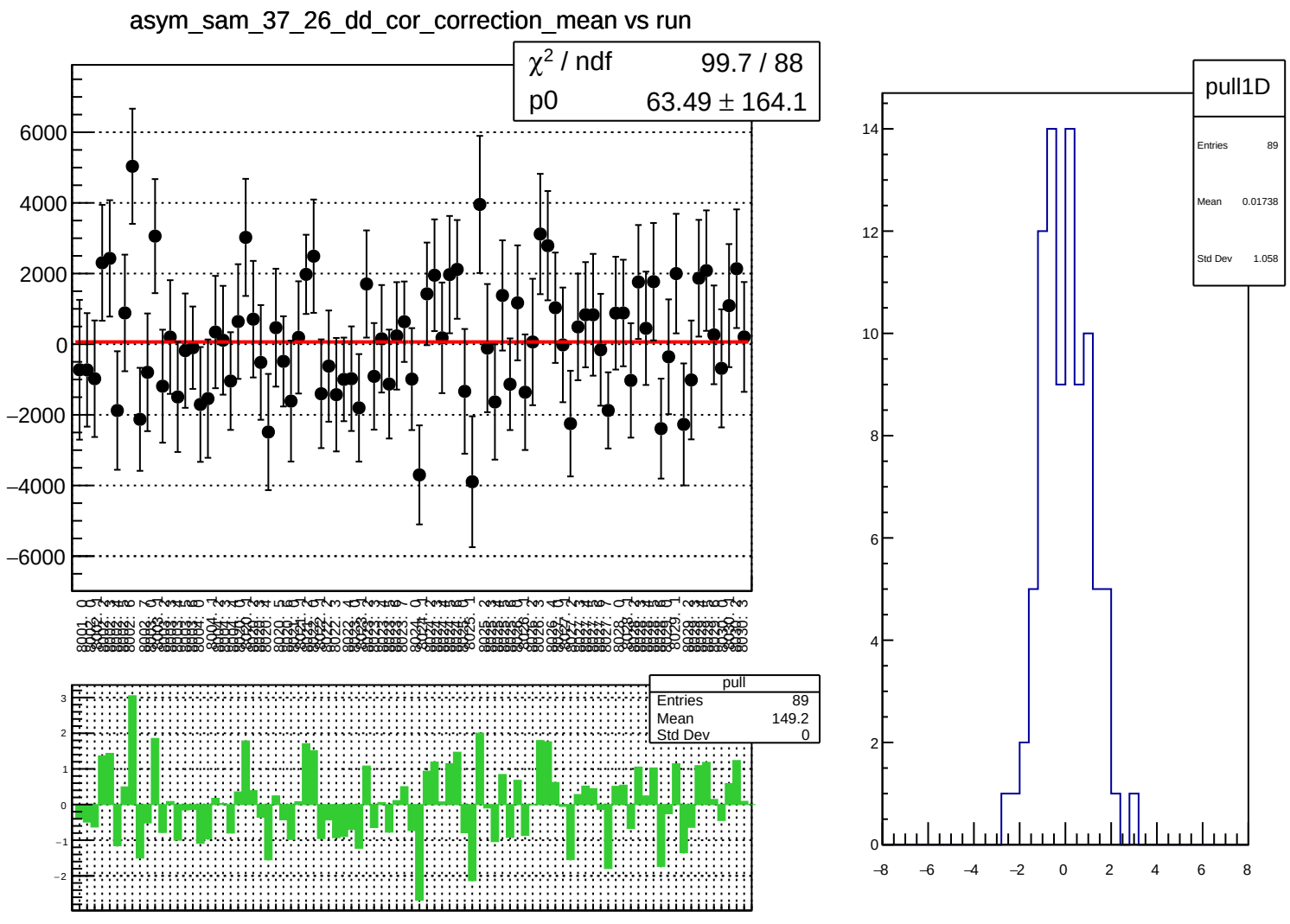

pull1D
Entries 89
Mean 0.01738
Std Dev 1.058

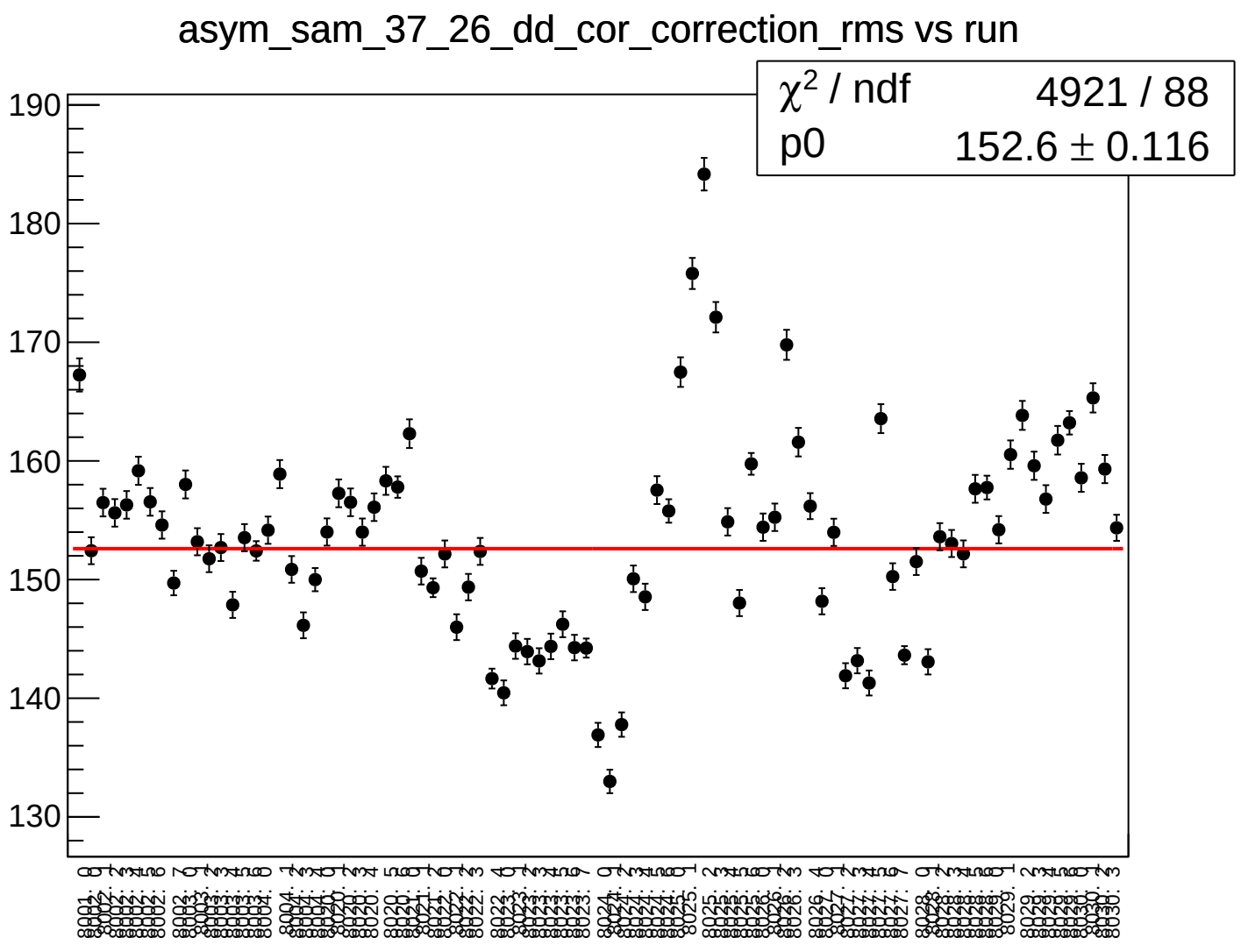

asym_sam_37_26_dd_reg_correction_rms vs run
χ² / ndf 4921 / 88
p0 152.6 ± 0.116
190
180
170
160
150
140
130

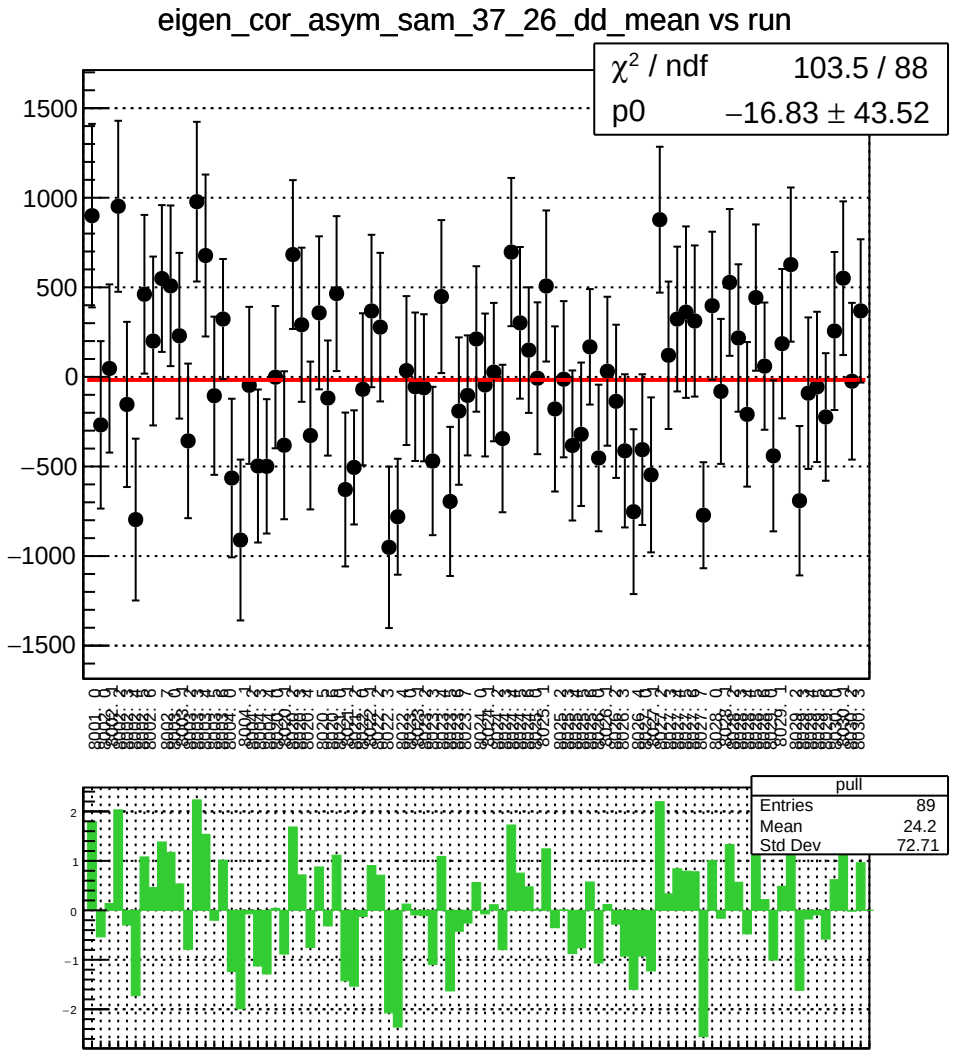

cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 103.5 / 88
p0 −16.83 ± 43.52
pull
Entries 89
Mean 24.2
Std Dev 72.71

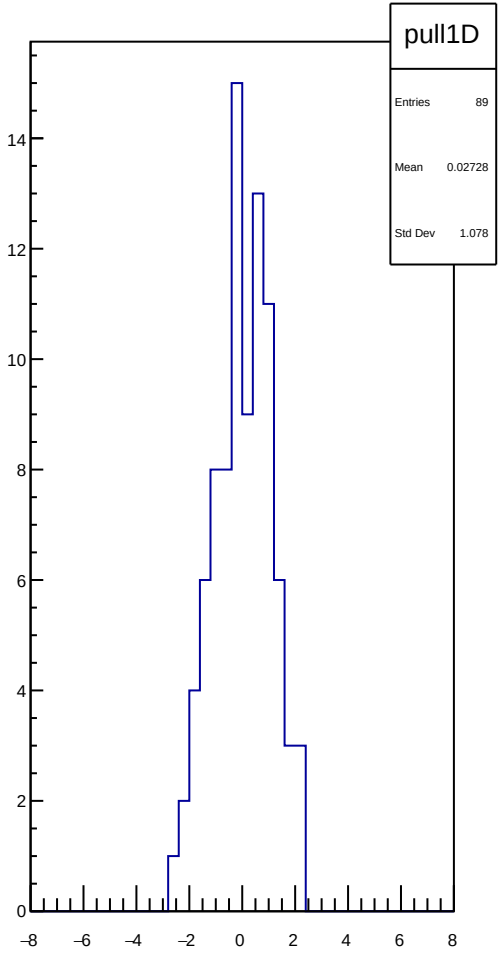

pull1D
Entries 89
Mean 0.02728
Std Dev 1.078

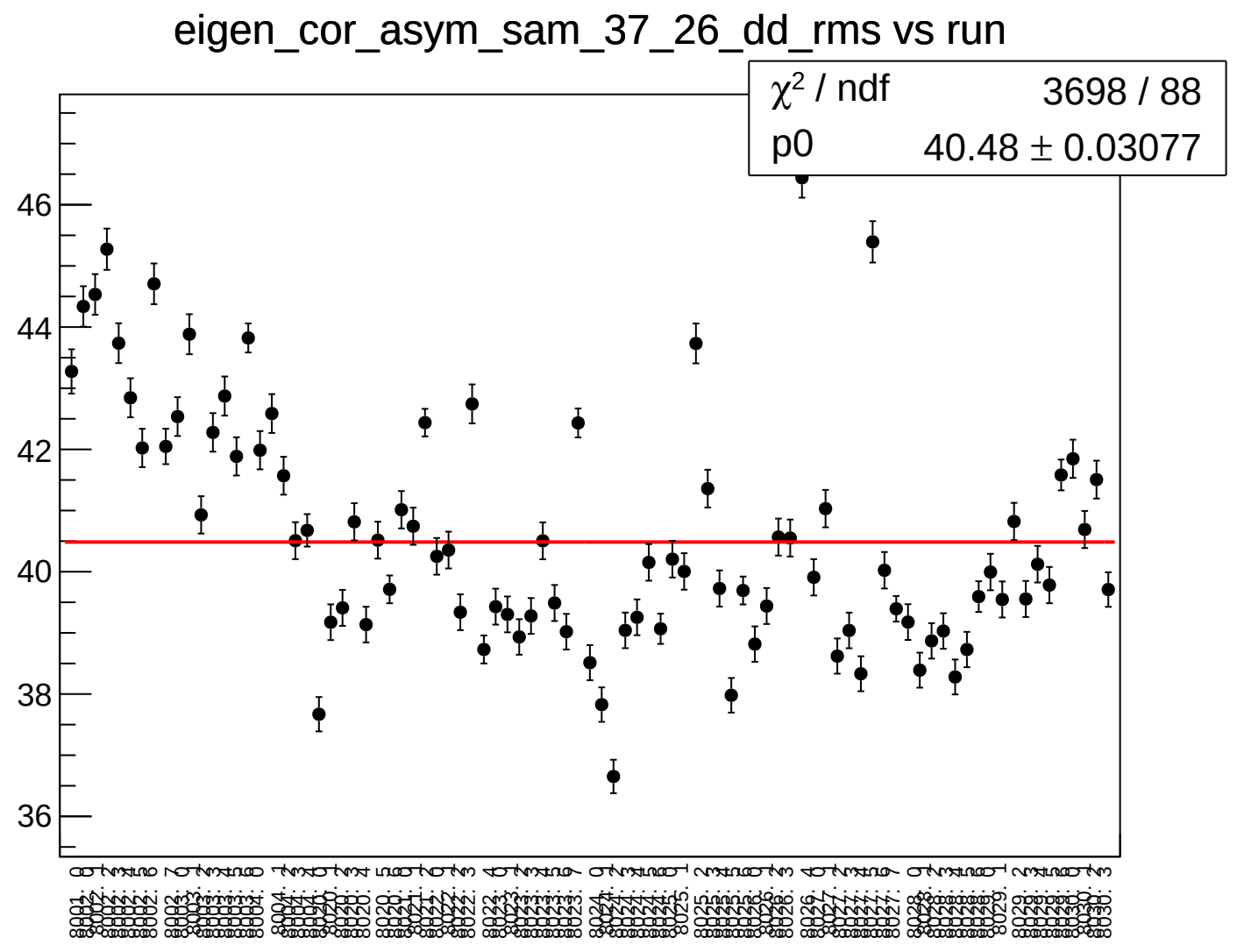

cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 3698 / 88
p0 40.48 ± 0.03077
46
44
42
40
38
36

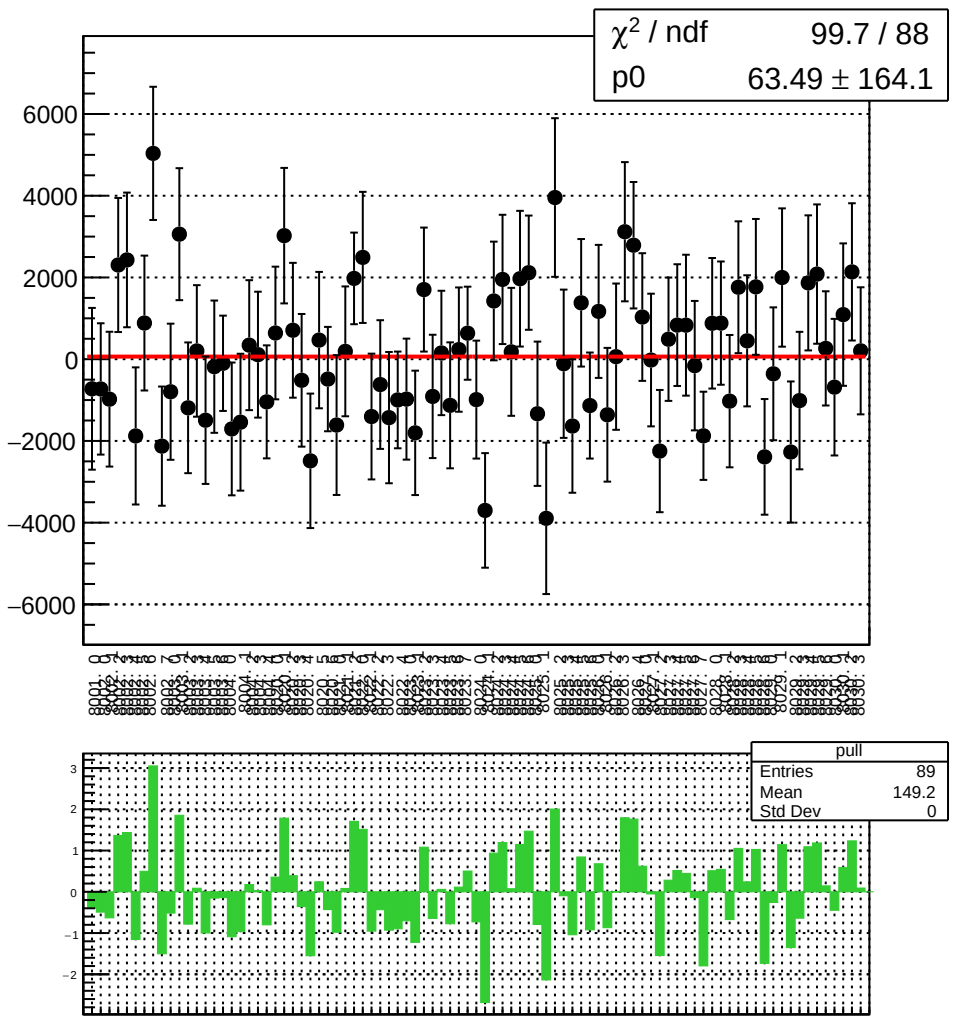

asym_sam_37_26_dd_cor_correction_mean vs run
χ² / ndf 99.7 / 88
p0 63.49 ± 164.1
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean 149.2
Std Dev 0
pull1D
Entries 89
Mean 0.01738
Std Dev 1.058
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

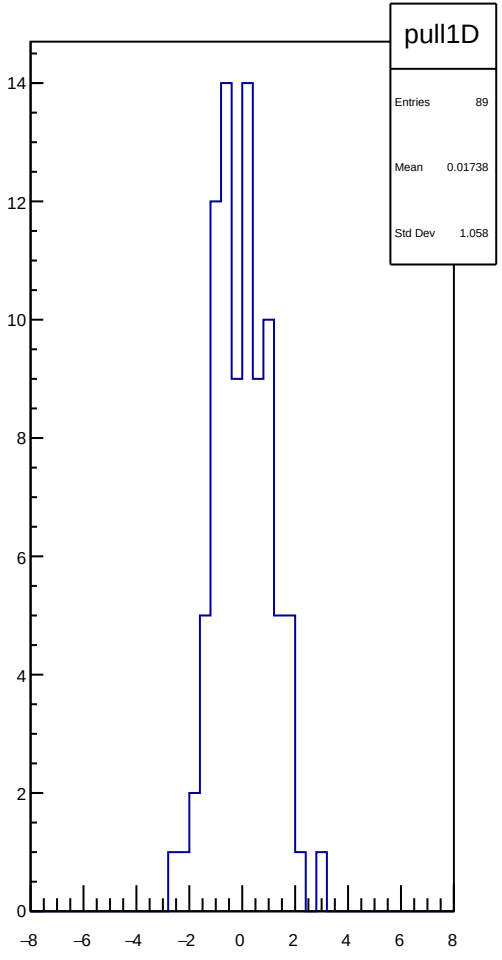

asym_sam_37_26_dd_cor_correction_rms vs run
χ² / ndf 4921 / 88
p0 152.6 ± 0.116
190
180
170
160
150
140
130

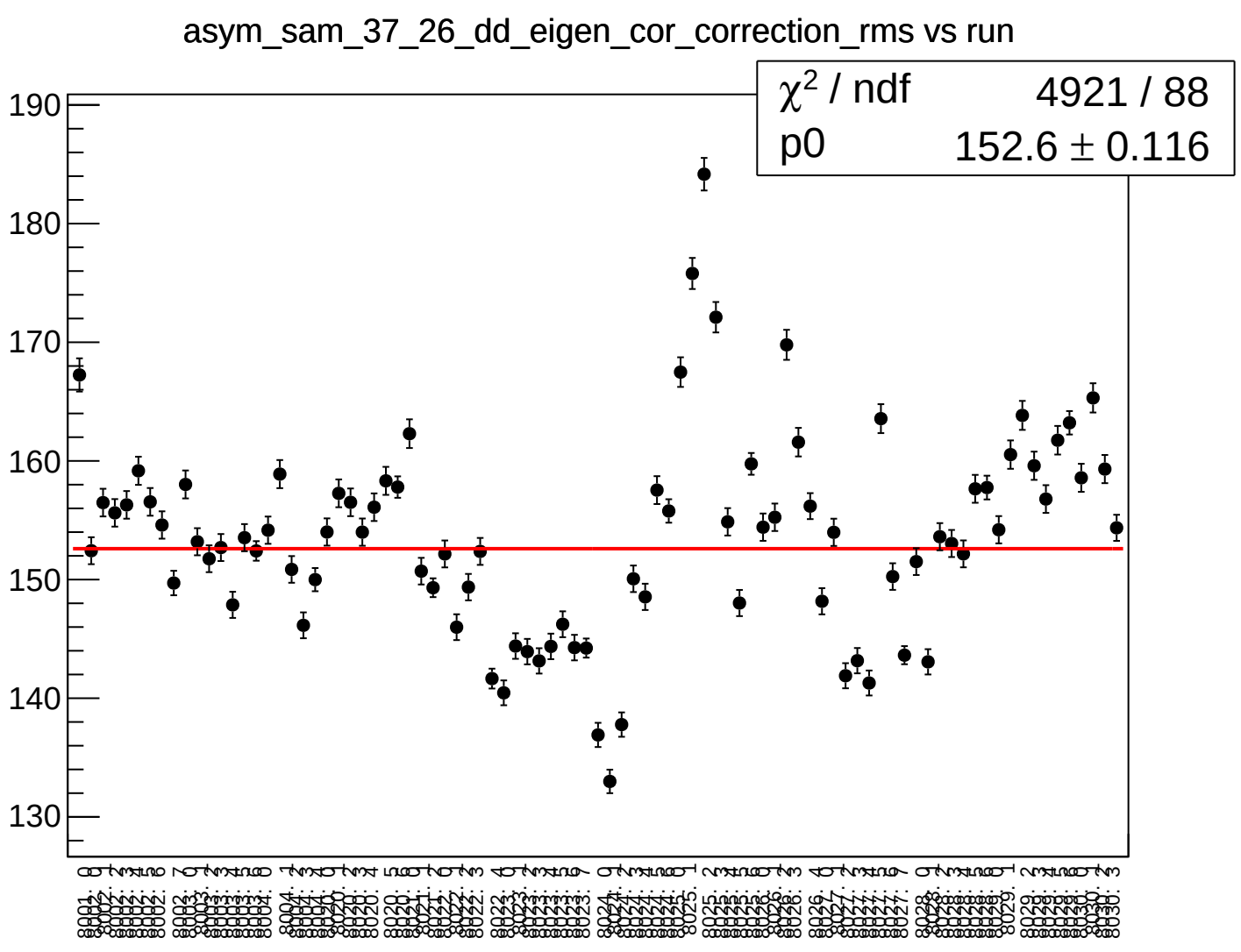

eigen_cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 103.5 / 88
p0 −16.83 ± 43.52
pull
Entries 89
Mean 24.2
Std Dev 72.71

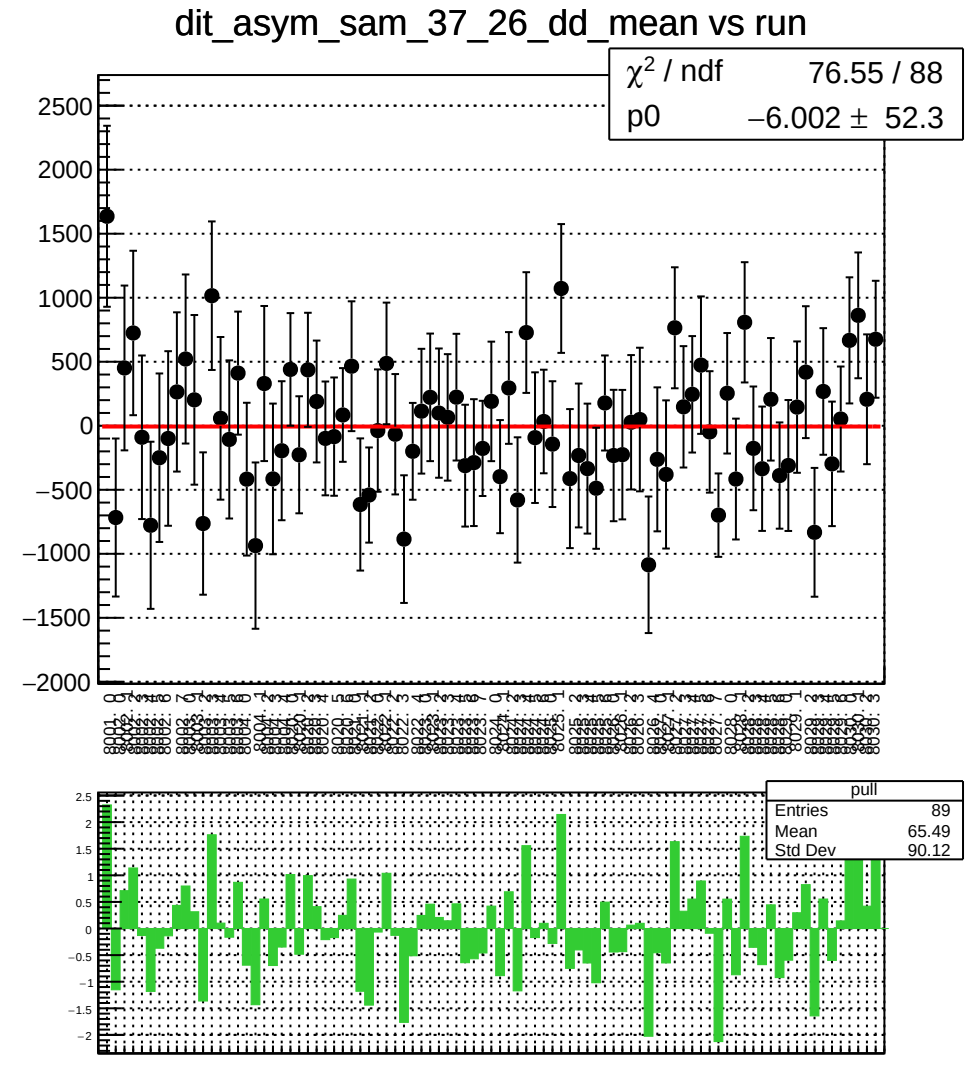

pull1D
Entries 89
Mean 0.02728
Std Dev 1.078

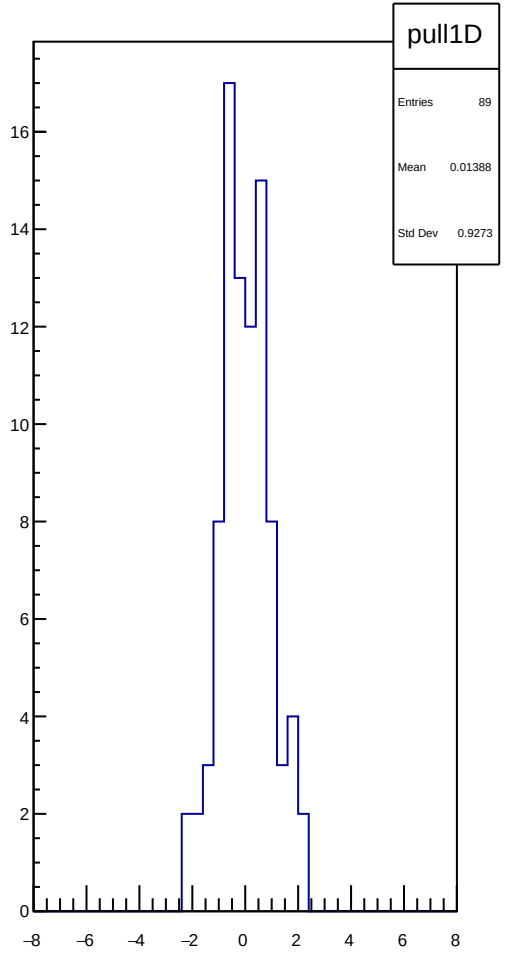

eigen_cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 3698 / 88
p0 40.48 ± 0.03077
46
44
42
40
38
36

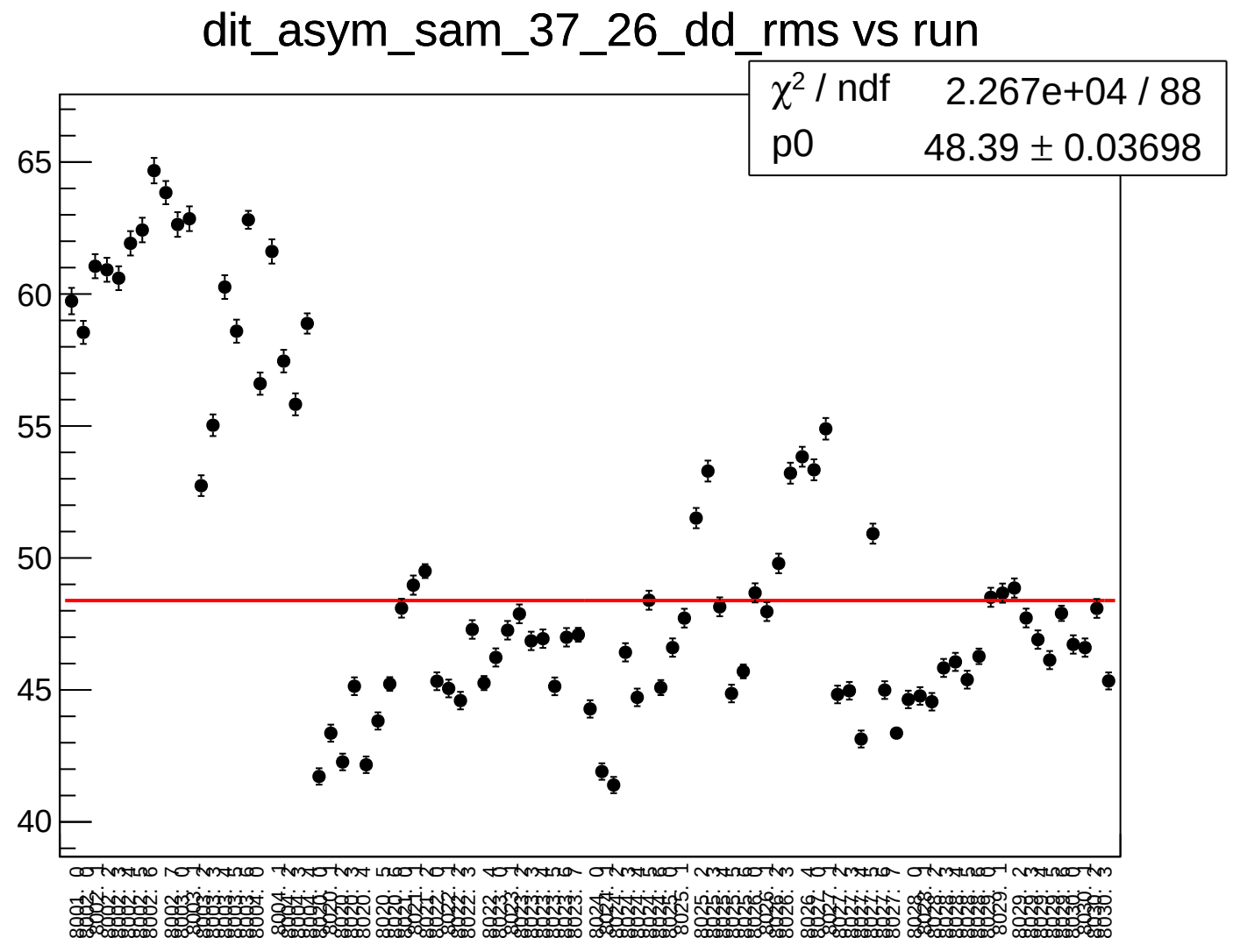

asym_sam_37_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 99.7 / 88
p0 63.49 ± 164.1
pull
Entries 89
Mean 149.2
Std Dev 0

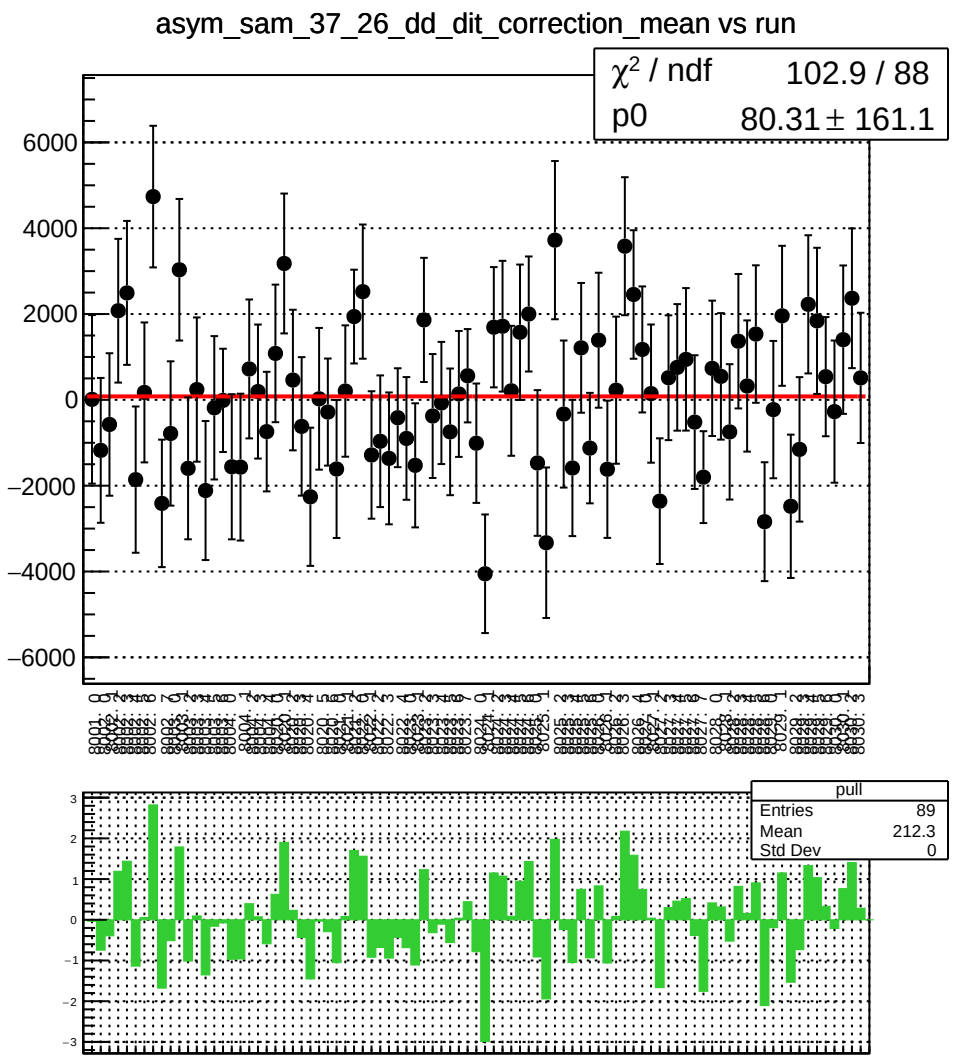

pull1D
Entries 89
Mean 0.01738
Std Dev 1.058

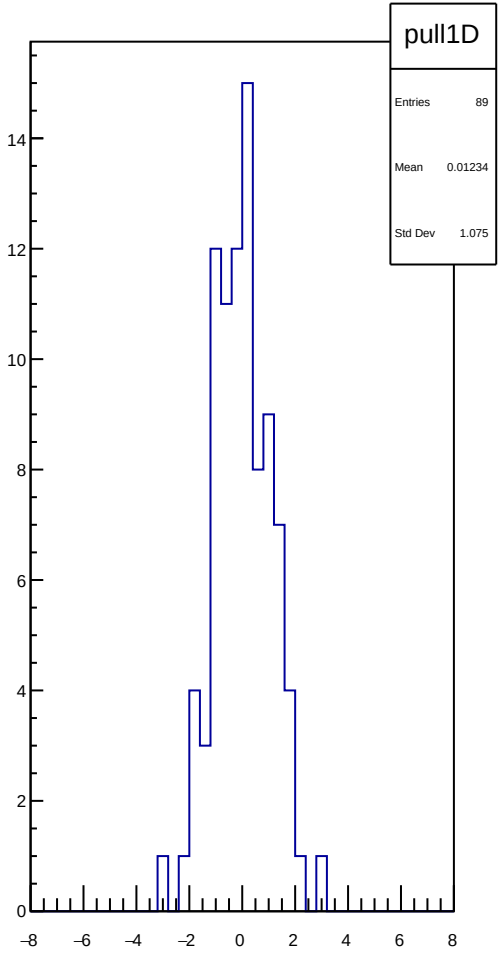

asym_sam_37_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 4921 / 88
p0 152.6 ± 0.116
190
180
170
160
150
140
130

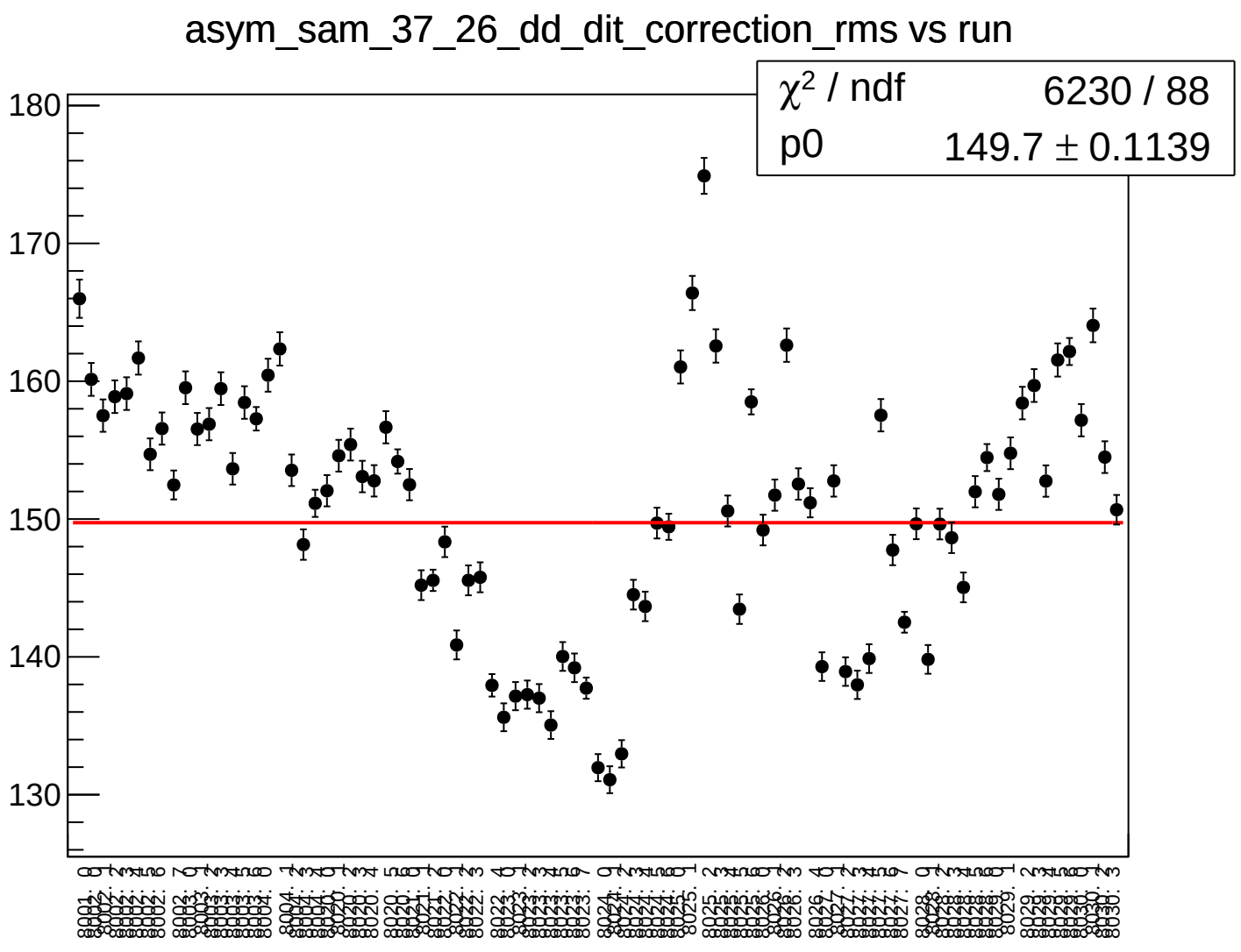

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 76.55 / 88
p0 −6.002 ± 52.3
pull
Entries 89
Mean 65.49
Std Dev 90.12

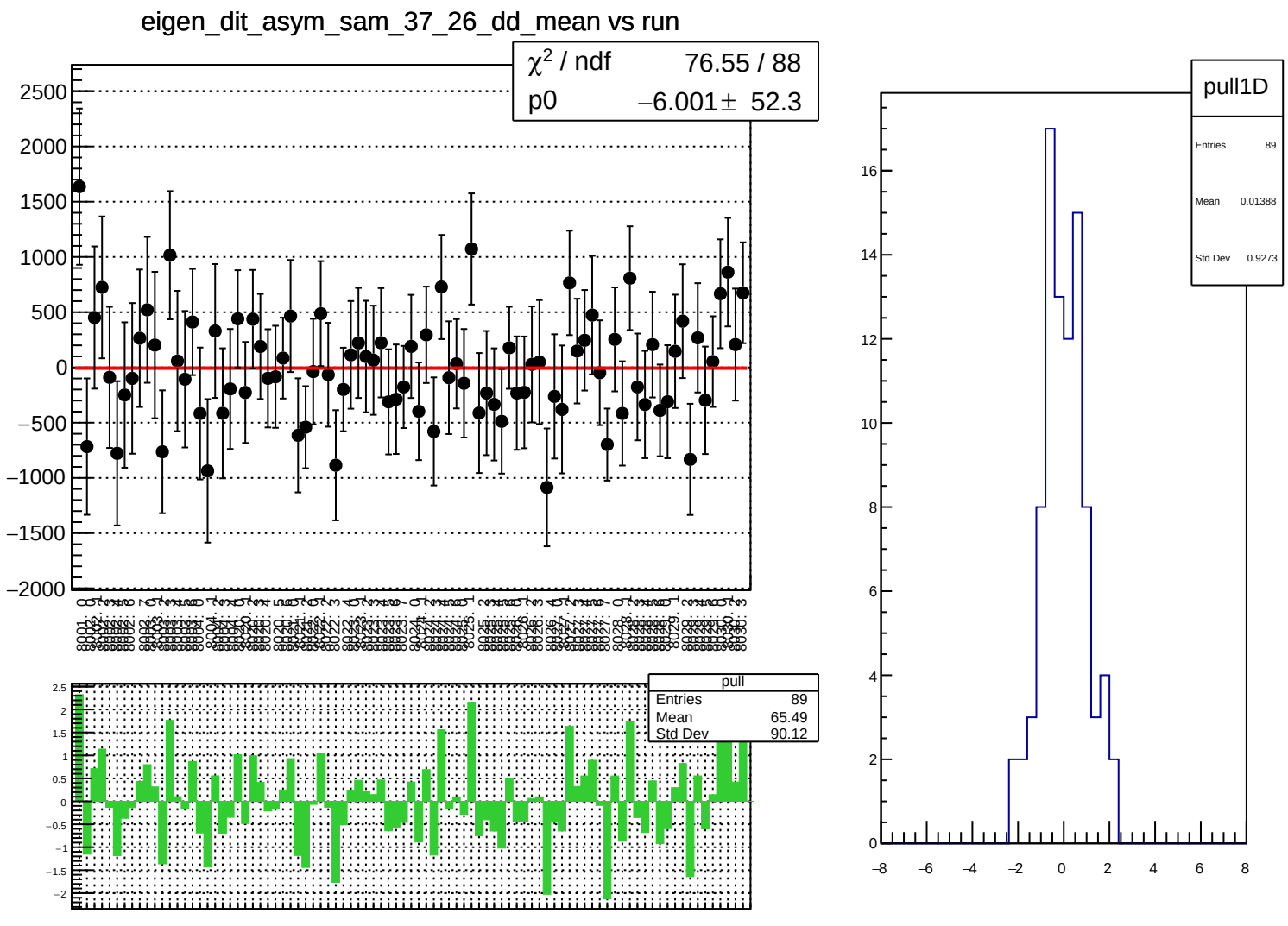

pull1D
Entries 89
Mean 0.01388
Std Dev 0.9273

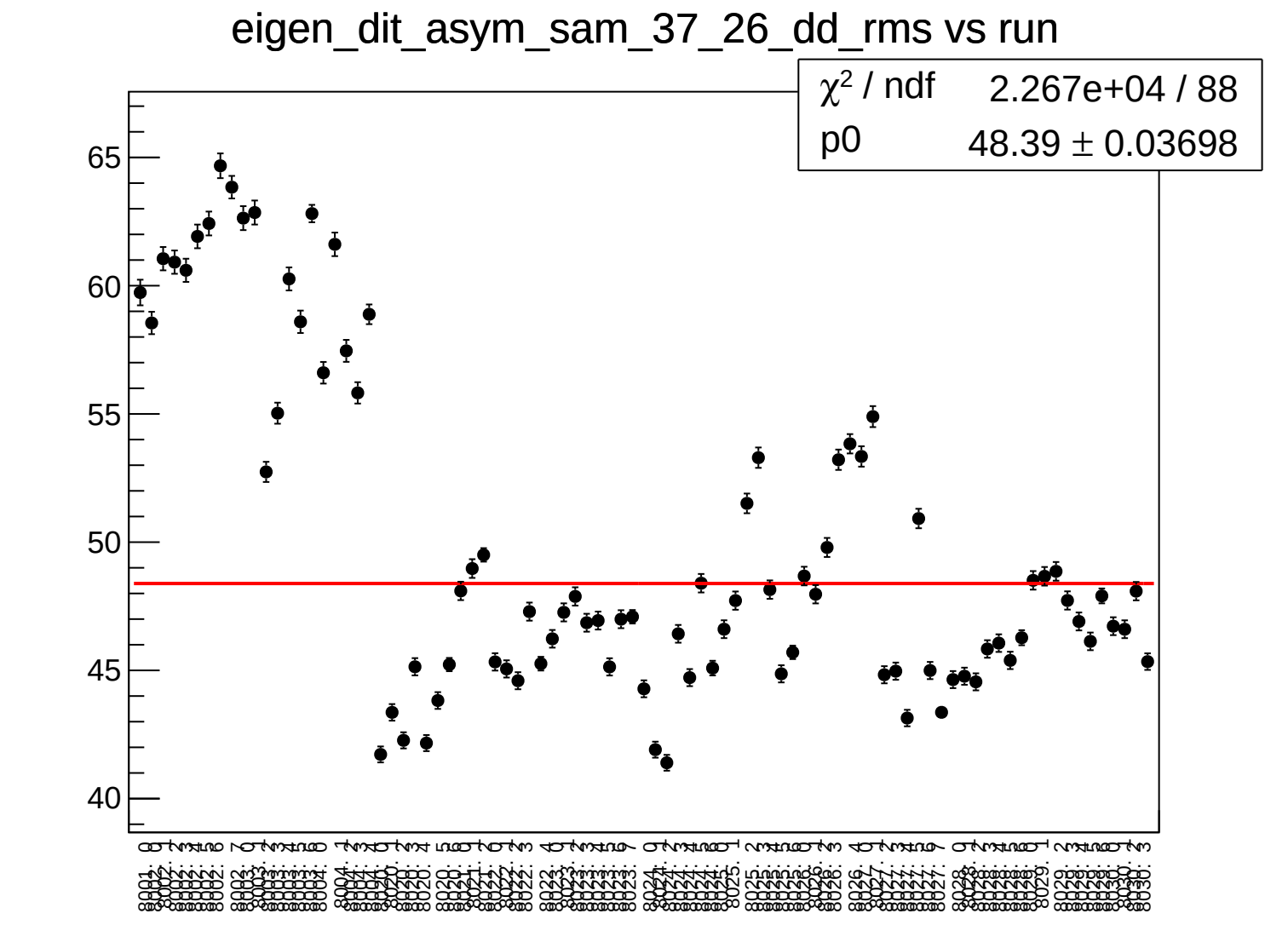

dit_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 2.267e+04 / 88
p0 48.39 ± 0.03698
65
60
55
50
45
40

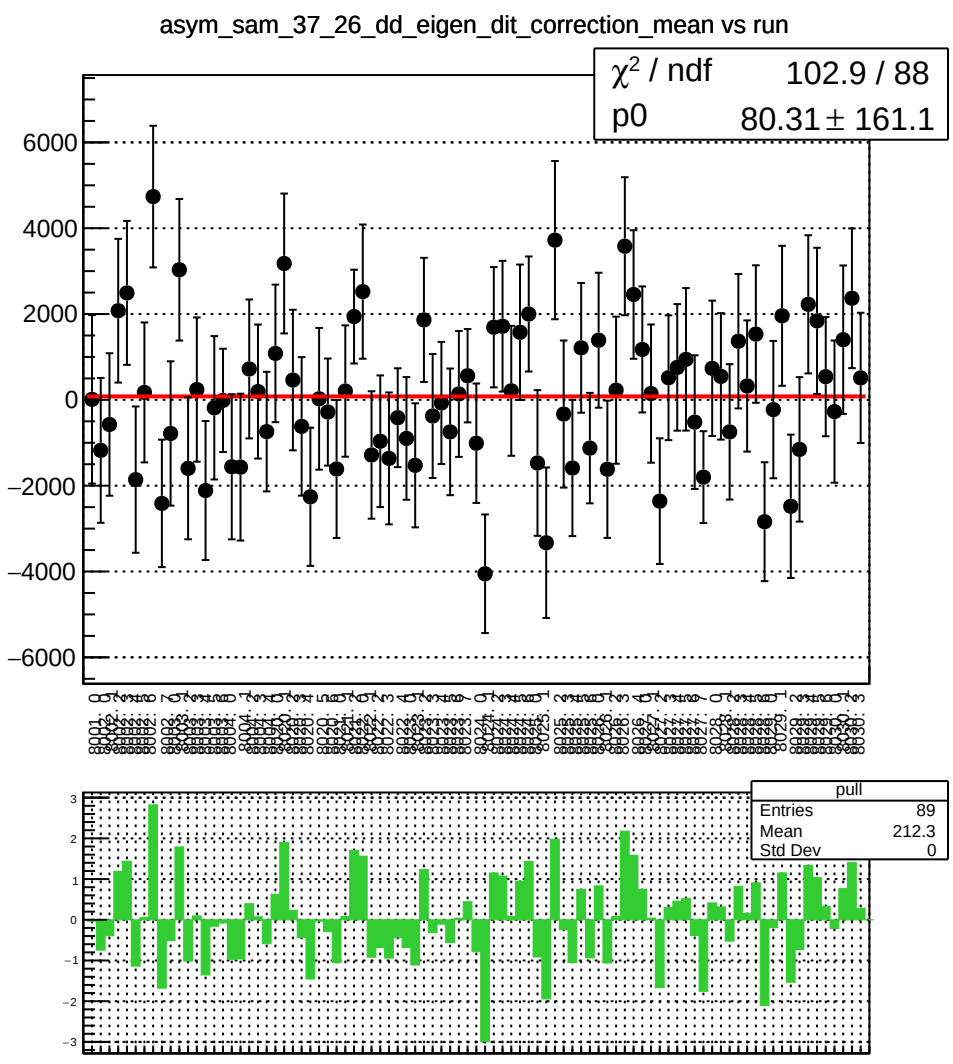

asym_sam_37_26_dd_dit_correction_mean vs run
χ² / ndf 102.9 / 88
p0 80.31 ± 161.1
pull
Entries 89
Mean 212.3
Std Dev 0

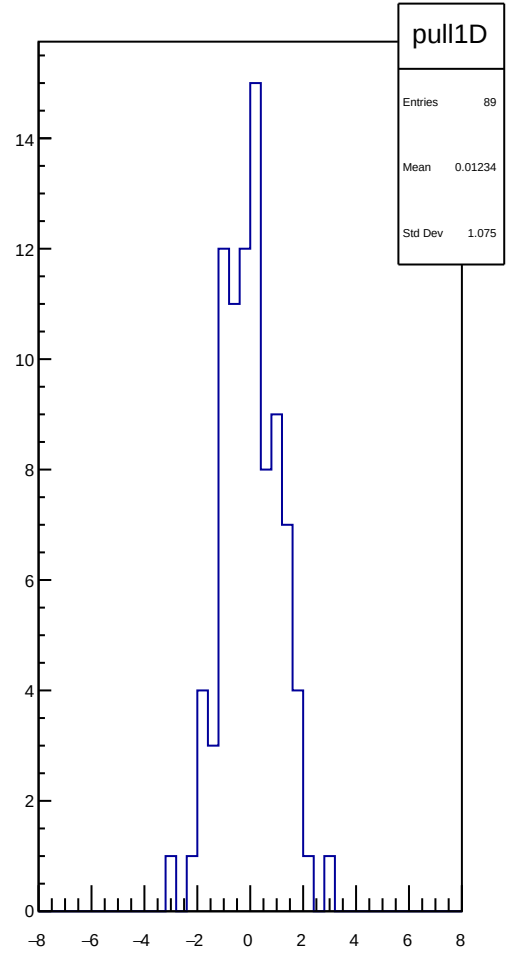

pull1D
Entries 89
Mean 0.01234
Std Dev 1.075

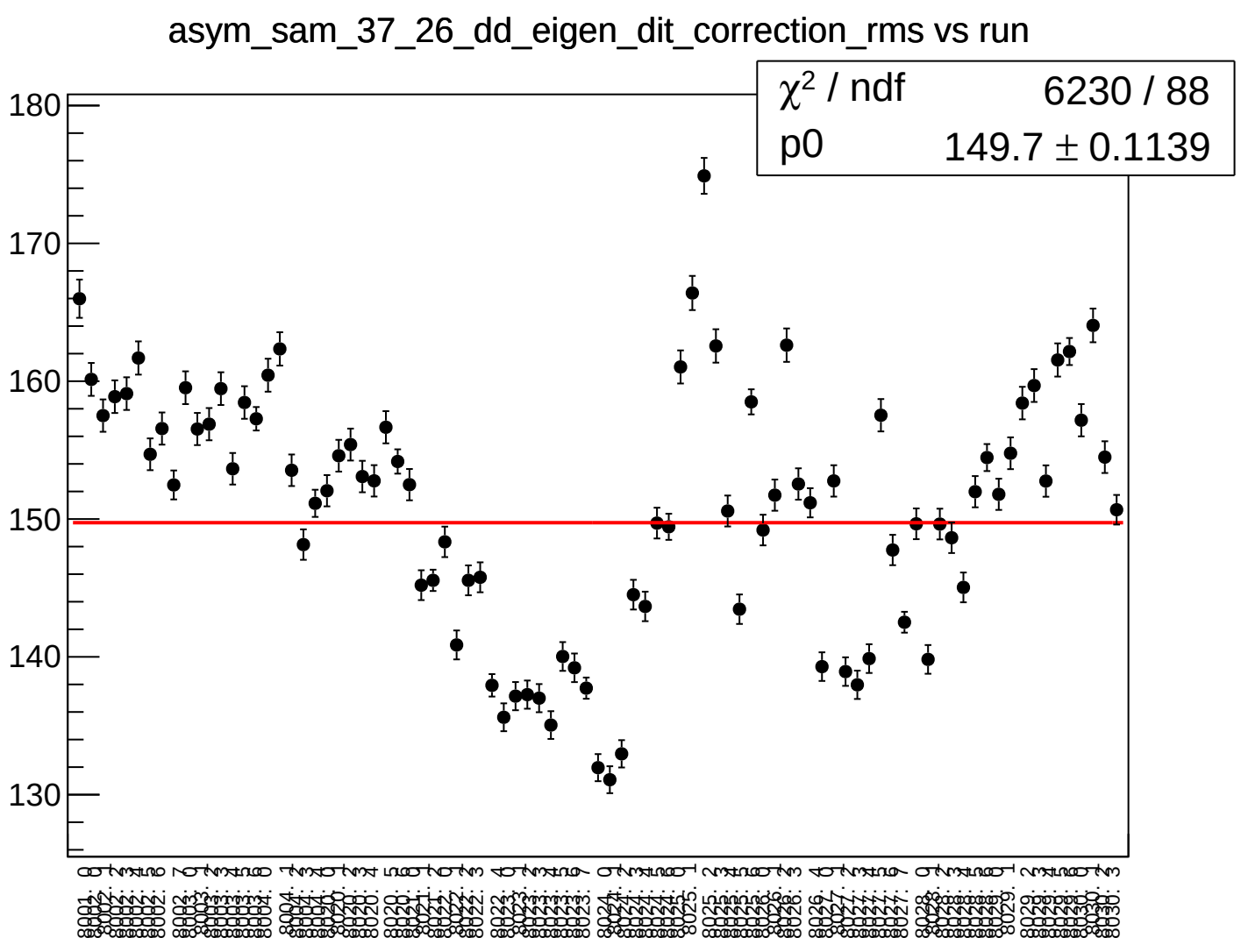

asym_sam_37_26_dd_dit_correction_rms vs run
χ² / ndf 6230 / 88
p0 149.7 ± 0.1139
180
170
160
150
140
130

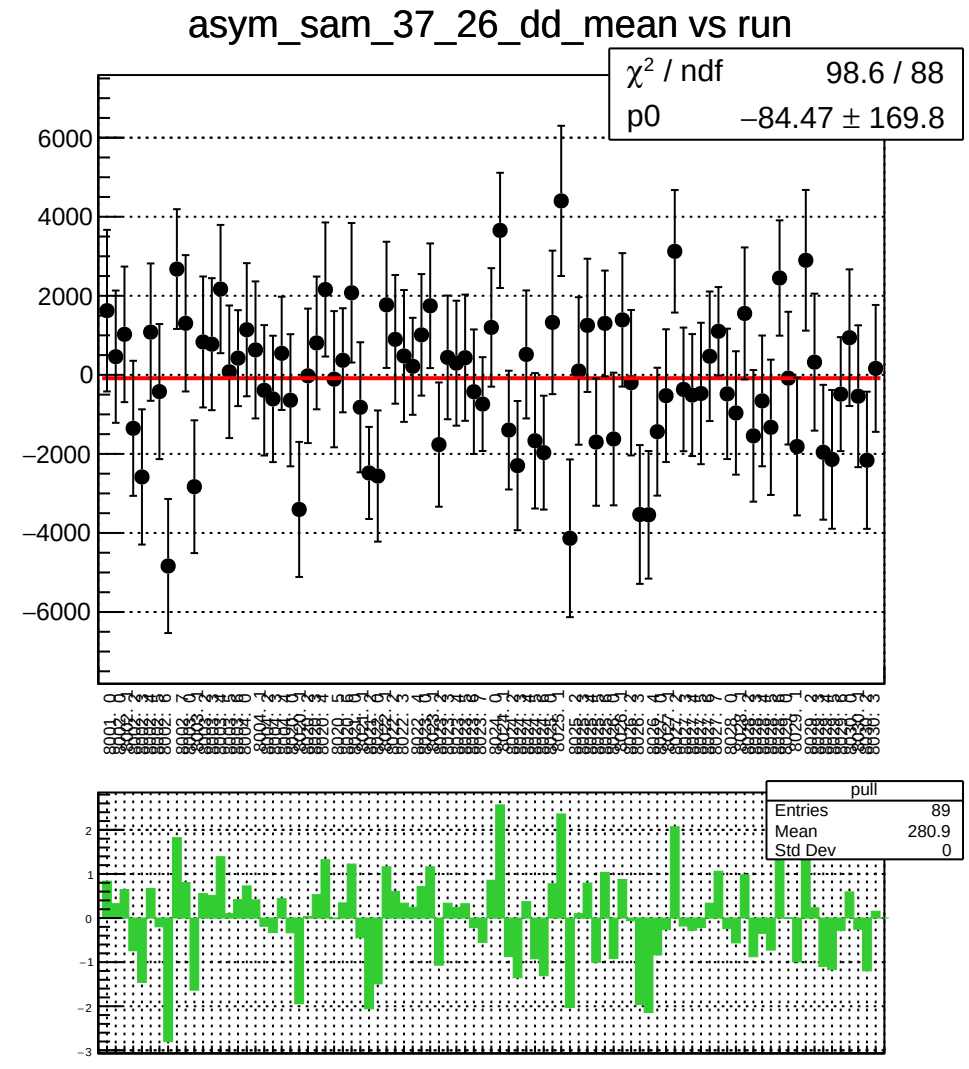

eigen_dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 76.55 / 88
p0 −6.001± 52.3
pull
Entries 89
Mean 65.49
Std Dev 90.12
pull1D
Entries 89
Mean 0.01388
Std Dev 0.9273

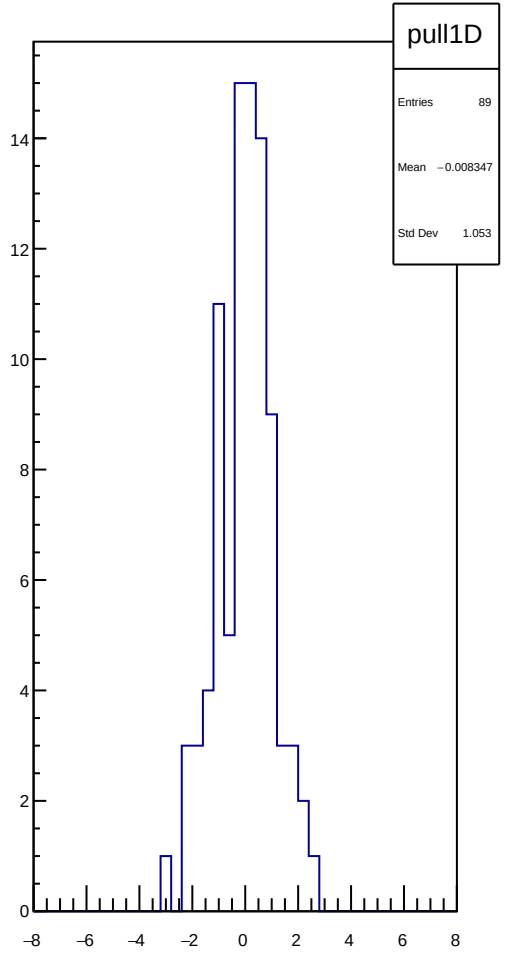

eigen_dit_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 2.267e+04 / 88
p0 48.39 ± 0.03698
65
60
55
50
45
40

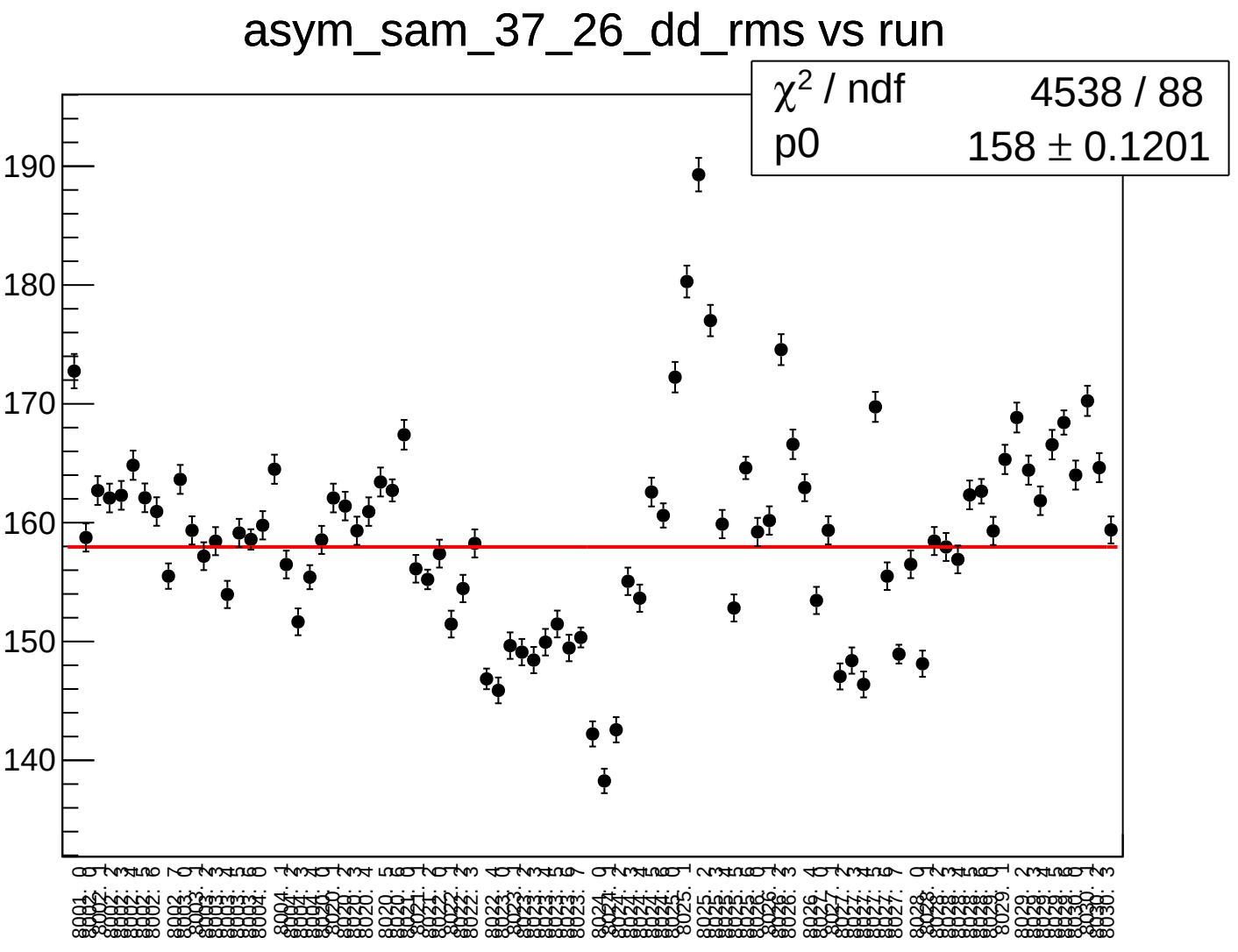

asym_sam_37_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 102.9 / 88
p0 80.31 ± 161.1
pull
Entries 89
Mean 212.3
Std Dev 0

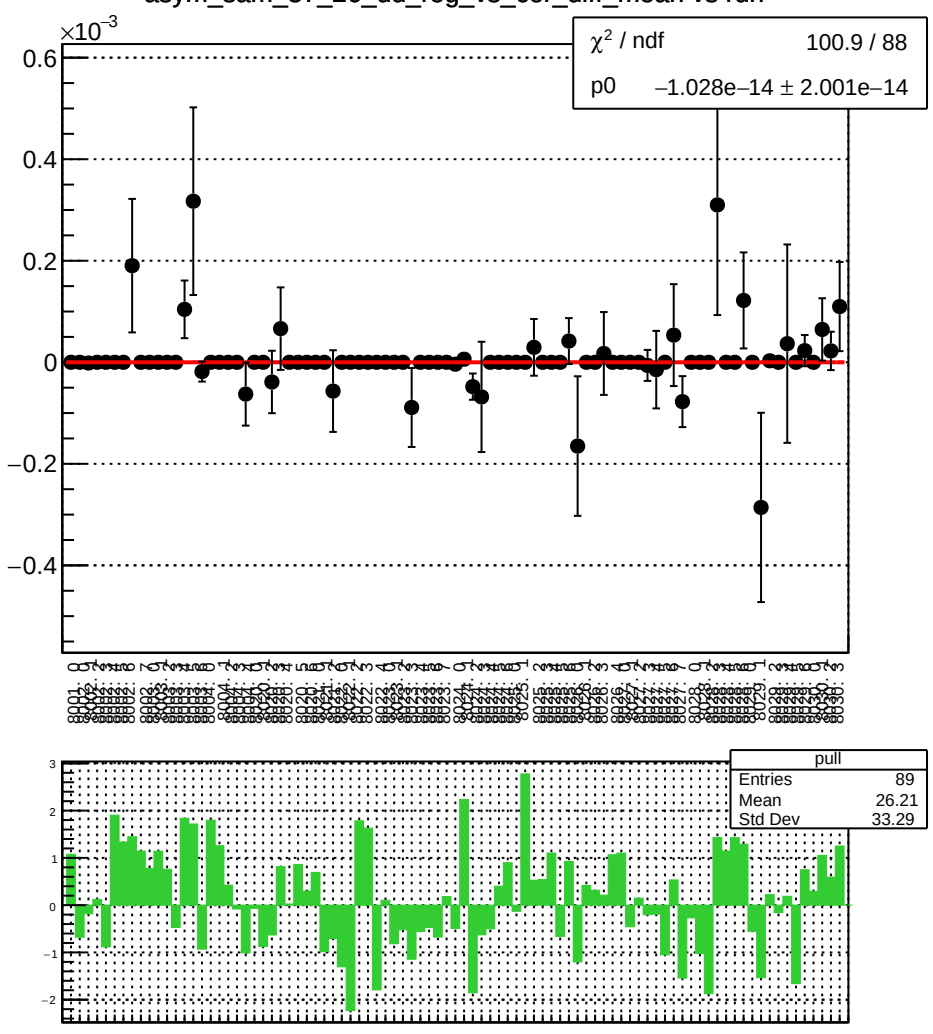

pull1D
Entries 89
Mean 0.01234
Std Dev 1.075

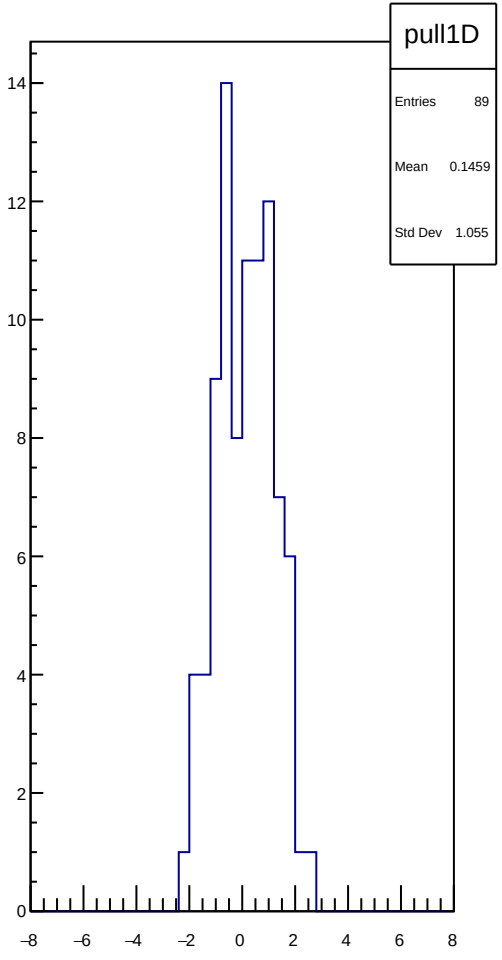

asym_sam_37_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 6230 / 88
p0 149.7 ± 0.1139
180
170
160
150
140
130

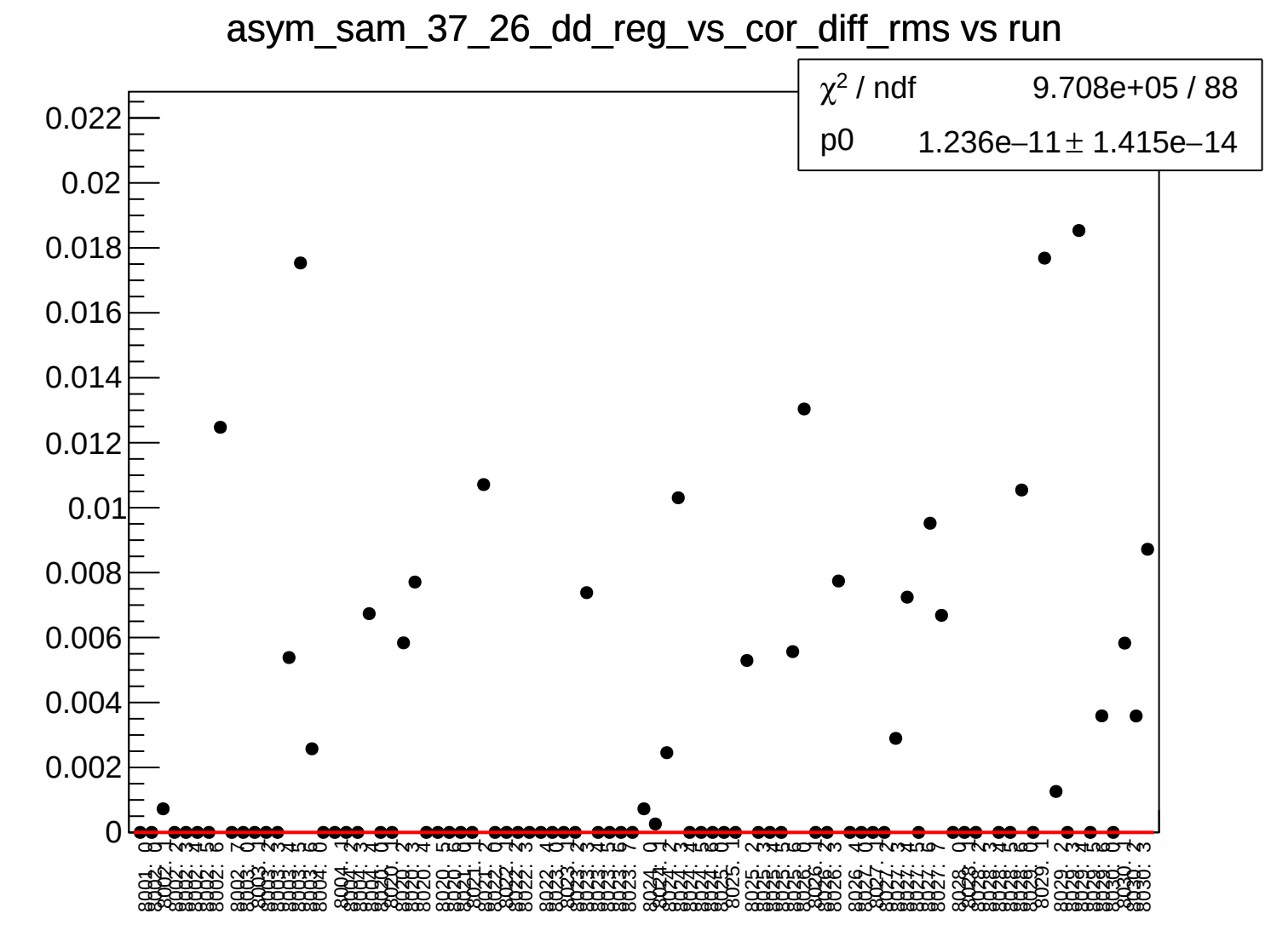

asym_sam_37_26_dd_mean vs run
χ² / ndf 98.6 / 88
p0 −84.47 ± 169.8
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean 280.9
Std Dev 0
2
1
0
−1
−2
−3

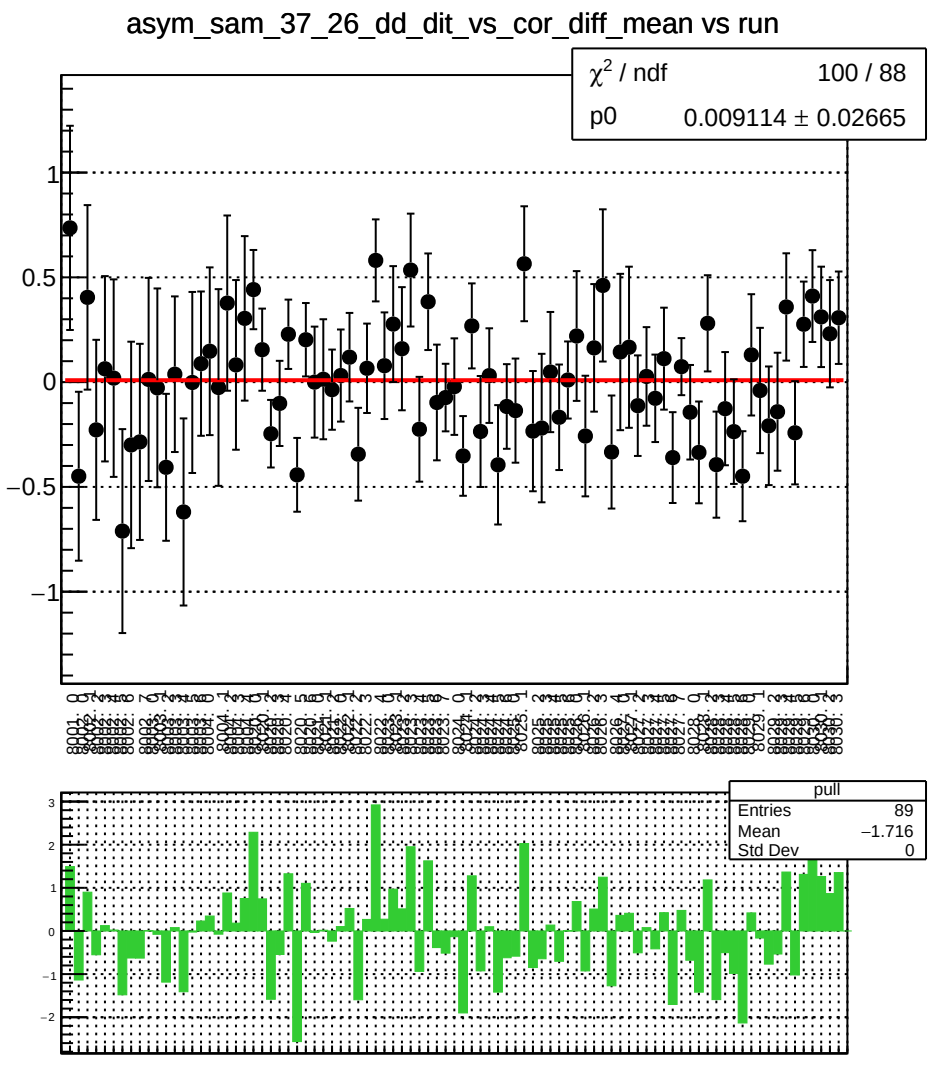

pull1D
Entries 89
Mean −0.008347
Std Dev 1.053
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

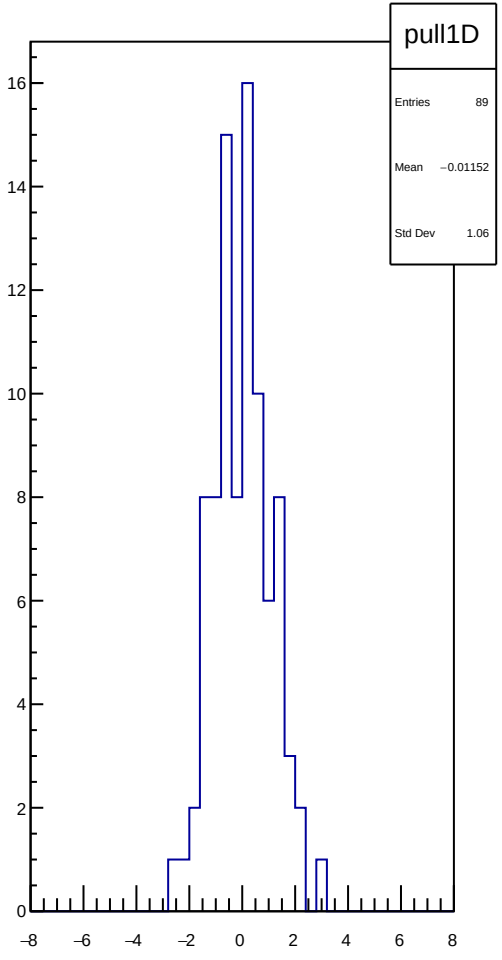

asym_sam_37_26_dd_rms vs run
χ² / ndf 4538 / 88
p0 158 ± 0.1201
190
180
170
160
150
140

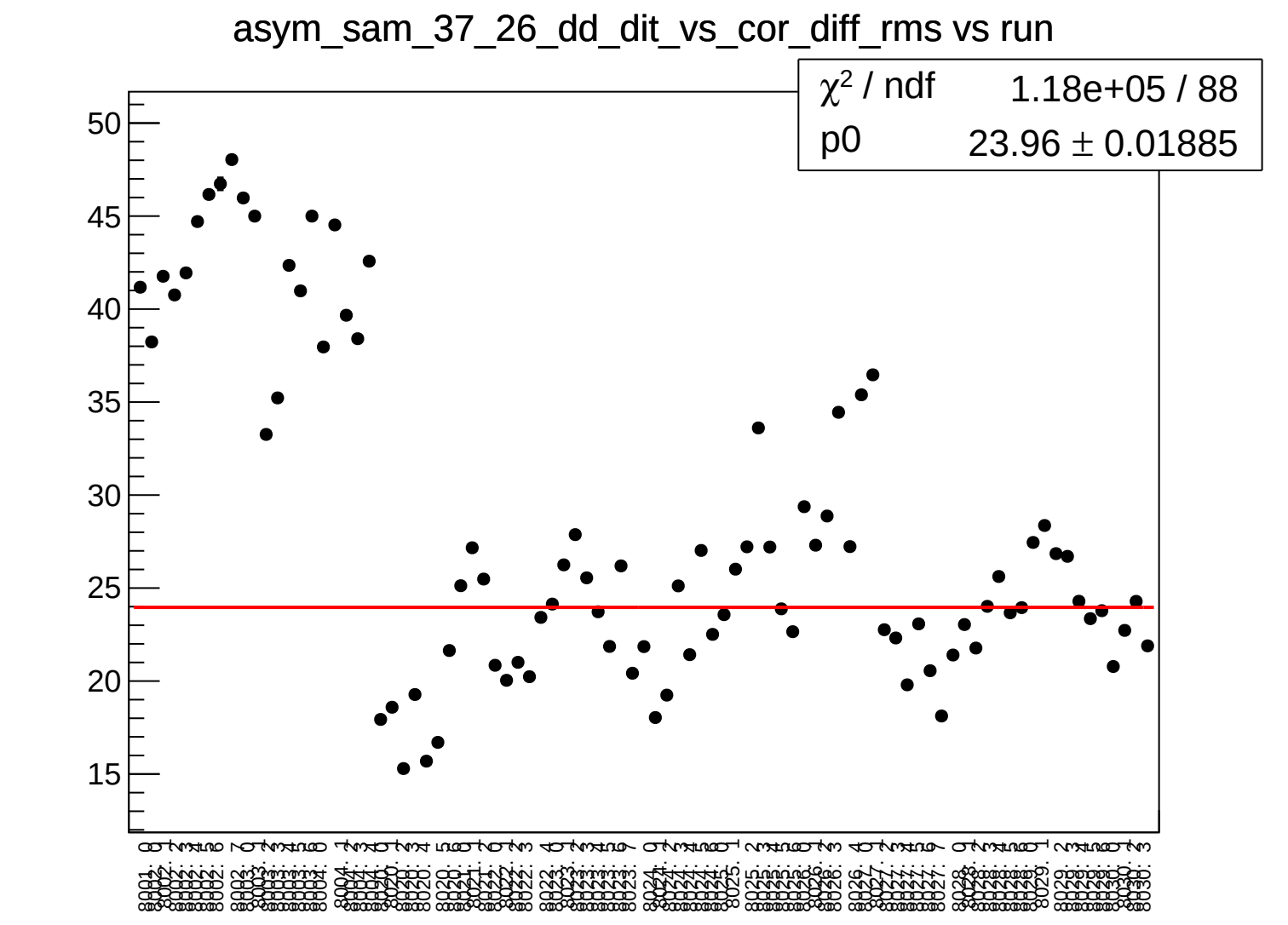

asym_sam_37_26_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 100.9 / 88
p0 −1.028e−14 ± 2.001e−14
pull
Entries 89
Mean 26.21
Std Dev 33.29

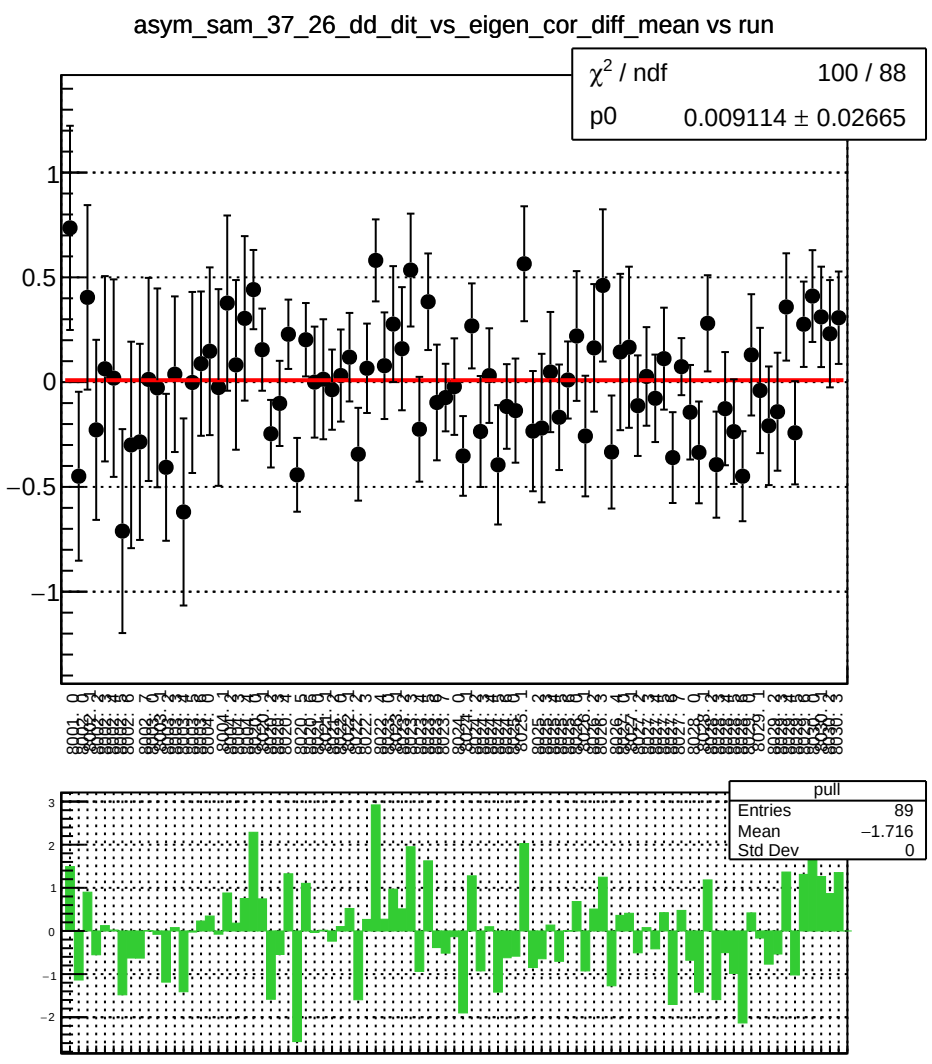

pull1D
Entries 89
Mean 0.1459
Std Dev 1.055

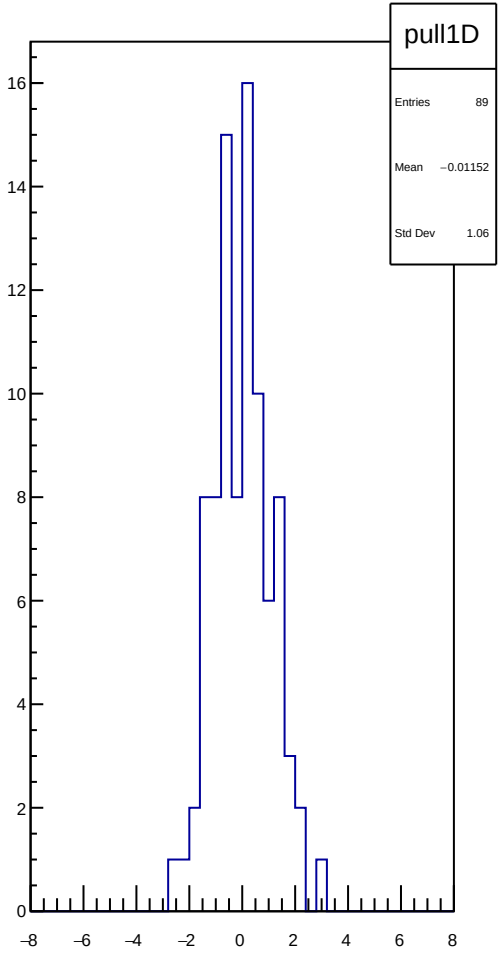

asym_sam_37_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.708e+05 / 88
p0 1.236e−11 ± 1.415e−14
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0

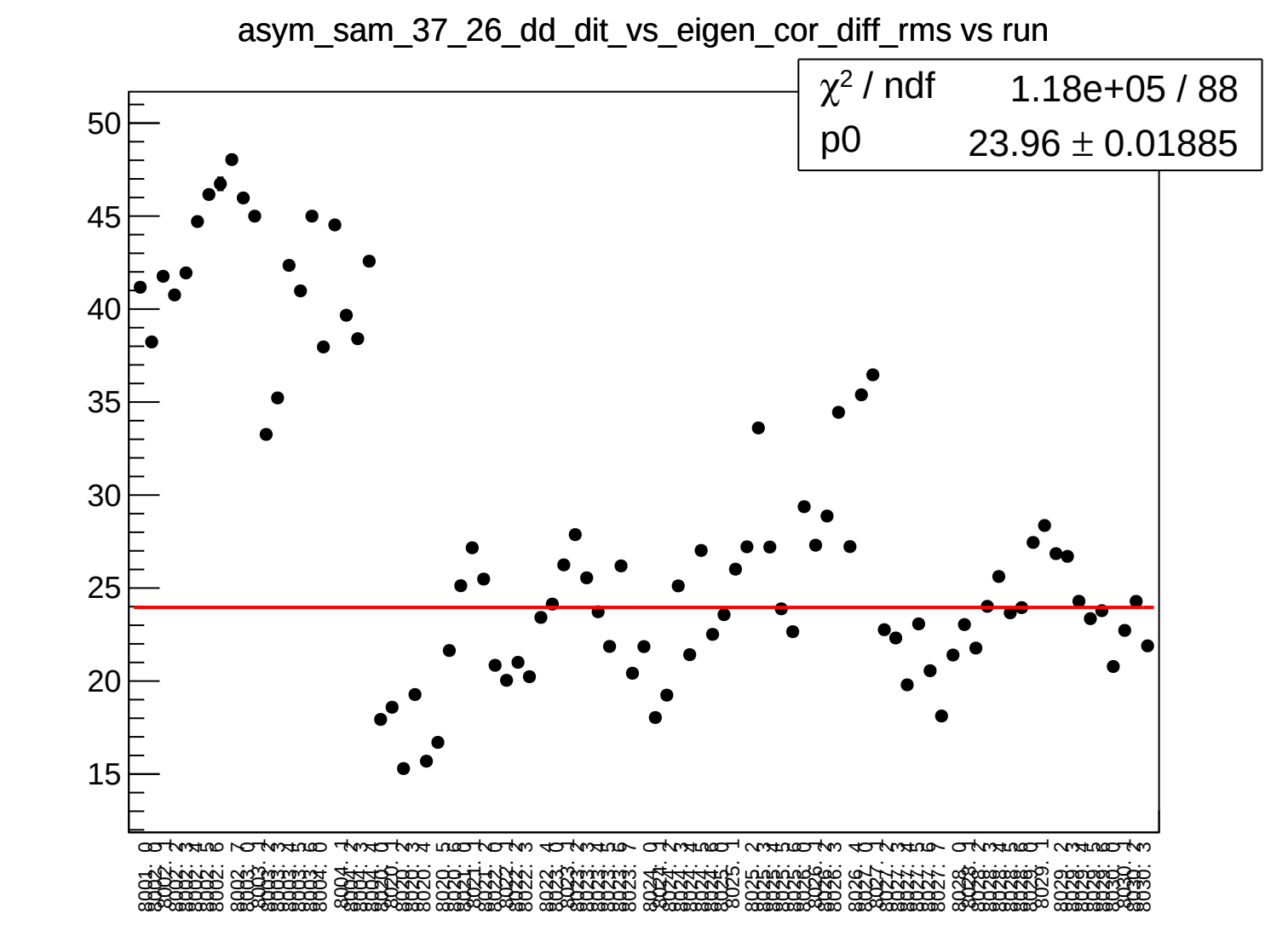

asym_sam_37_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 100 / 88
p0 0.009114 ± 0.02665
pull
Entries 89
Mean −1.716
Std Dev 0

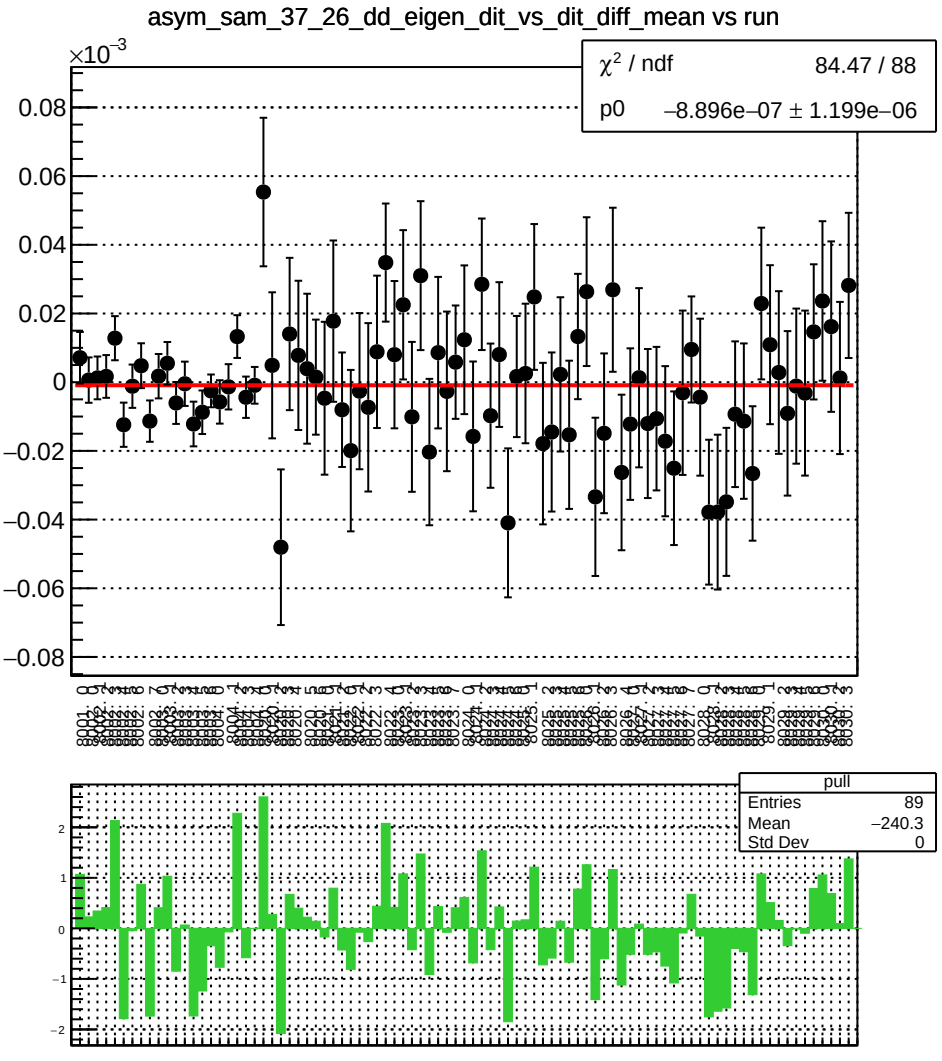

pull1D
Entries 89
Mean −0.01152
Std Dev 1.06

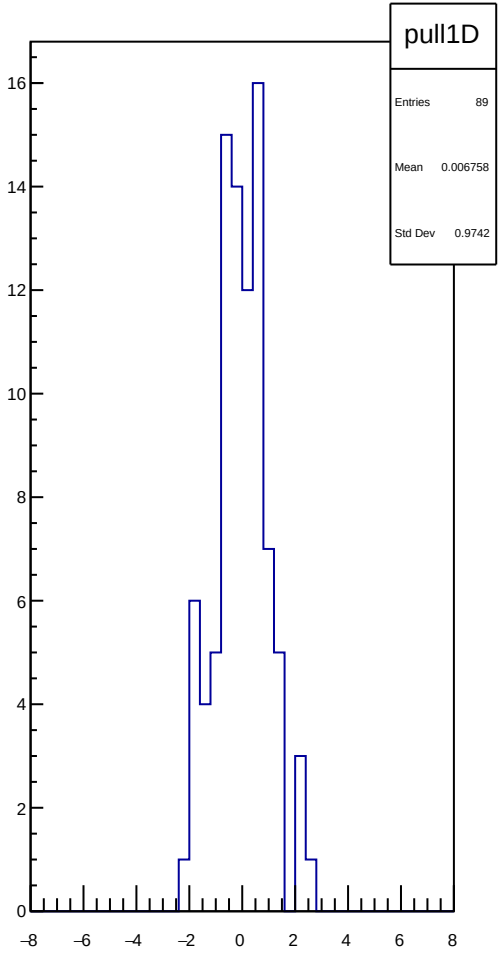

asym_sam_37_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.18e+05 / 88
p0 23.96 ± 0.01885
50
45
40
35
30
25
20
15

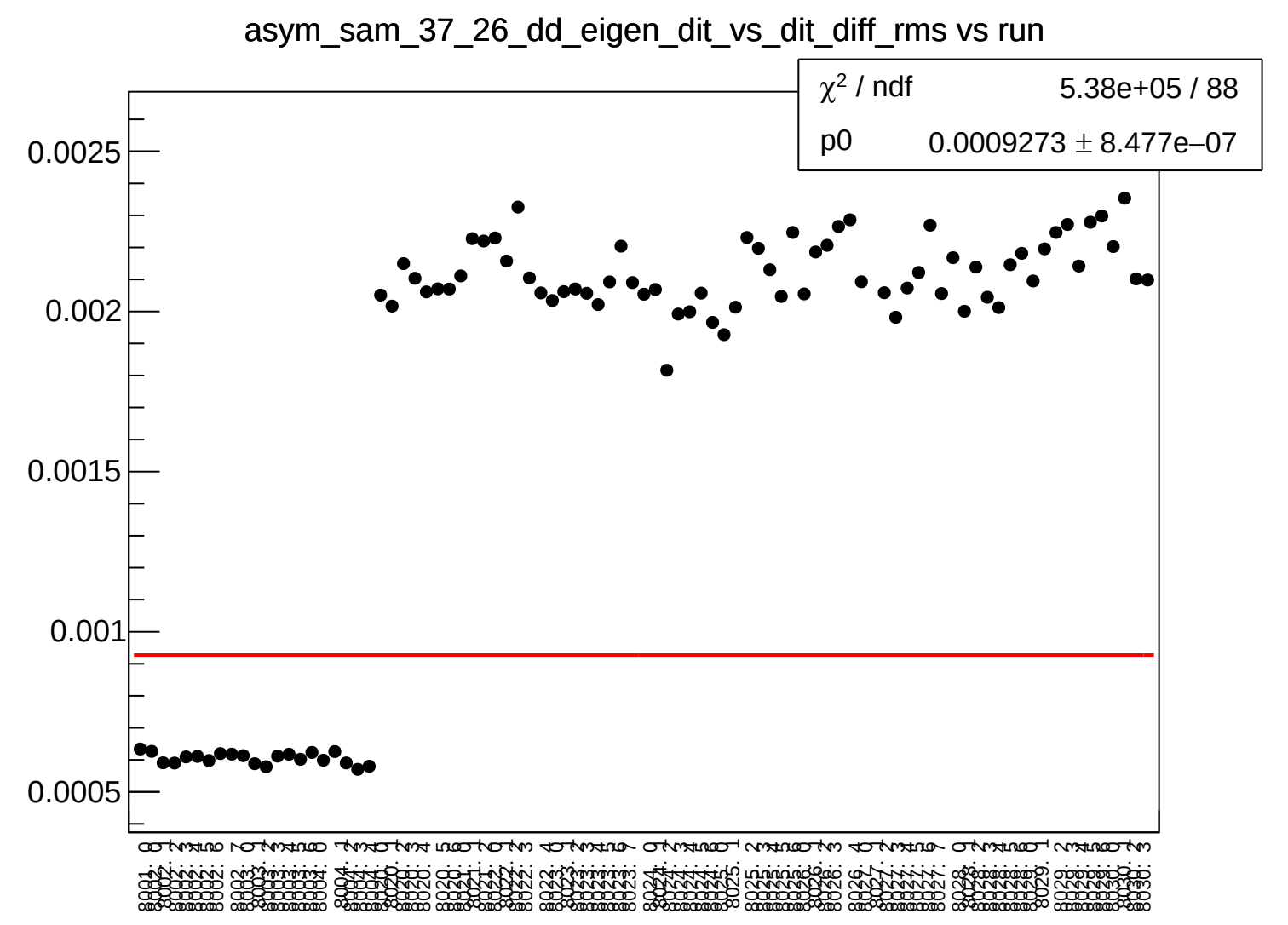

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100 / 88
p0 0.009114 ± 0.02665
pull
Entries 89
Mean −1.716
Std Dev 0

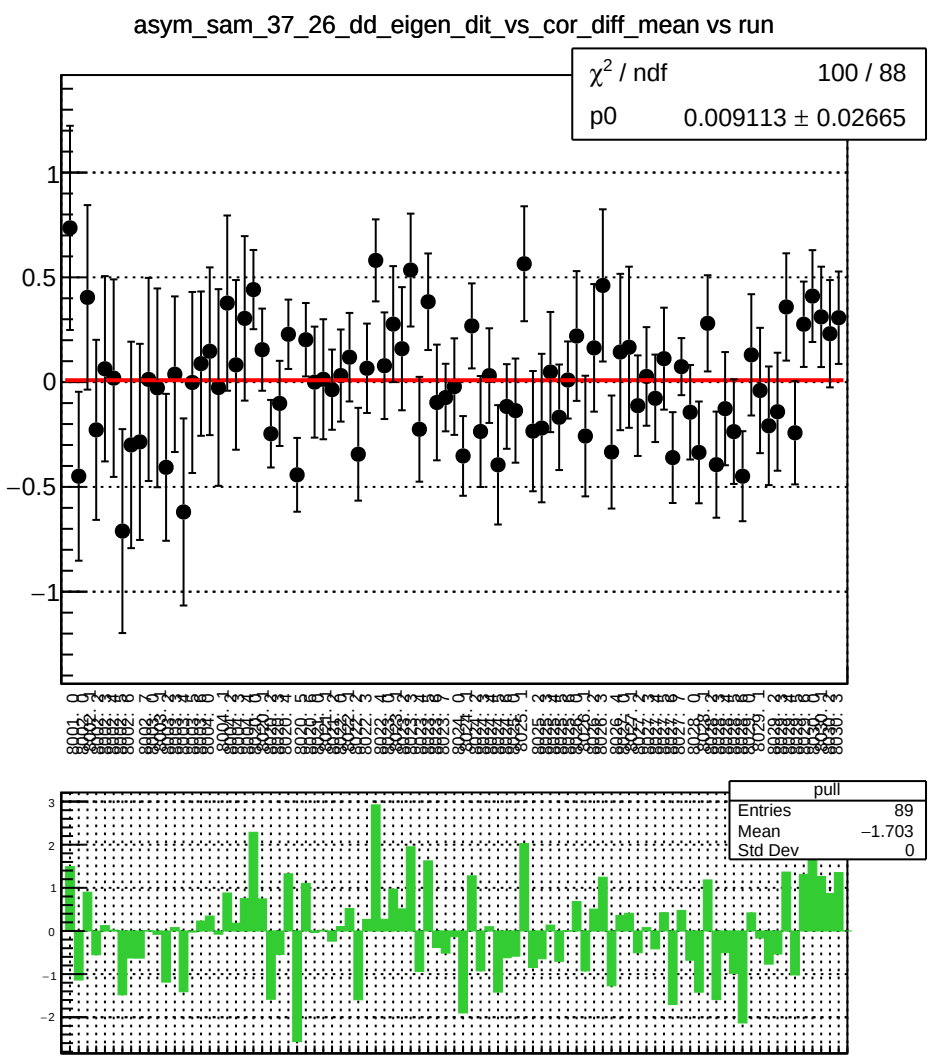

pull1D
Entries 89
Mean −0.01152
Std Dev 1.06

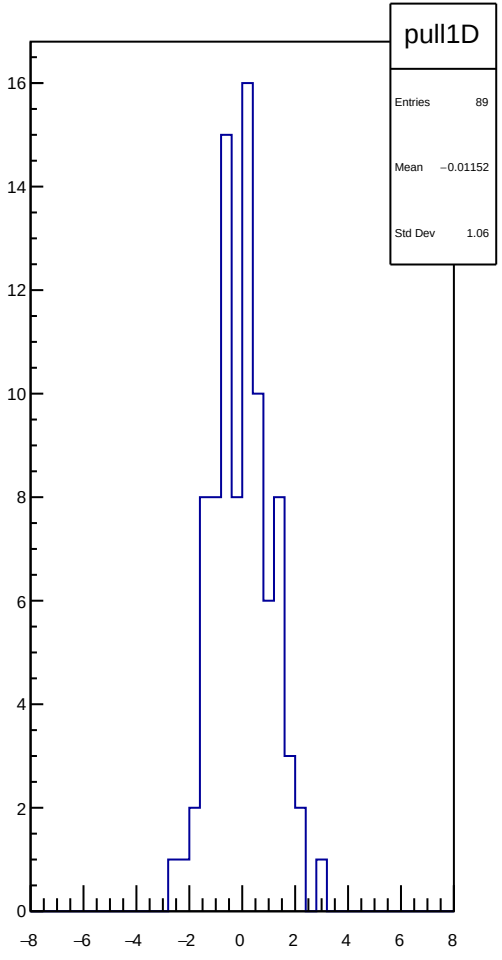

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.18e+05 / 88
p0 23.96 ± 0.01885
50
45
40
35
30
25
20
15

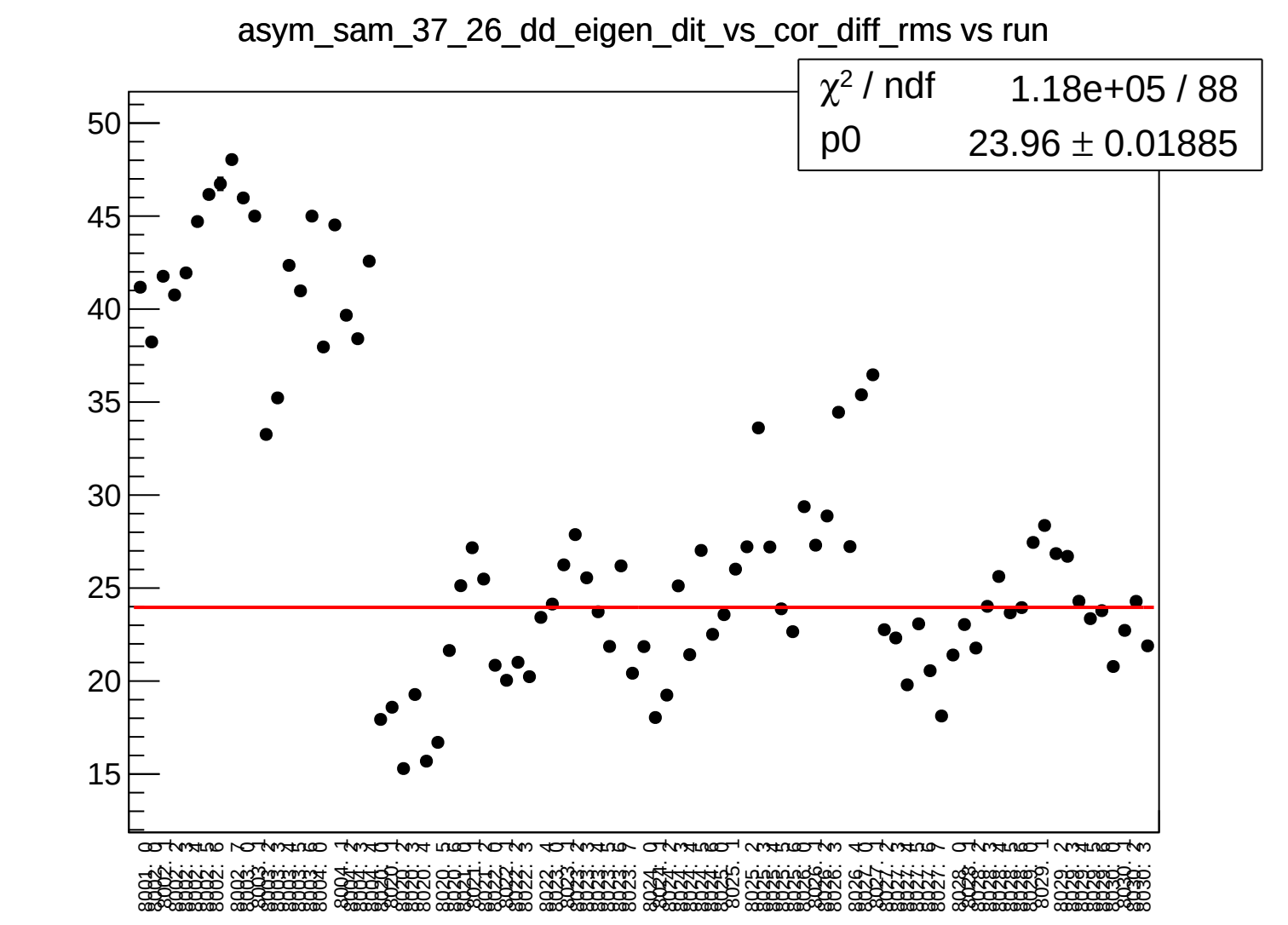

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.47 / 88
p0 −8.896e−07 ± 1.199e−06
pull
Entries 89
Mean −240.3
Std Dev 0

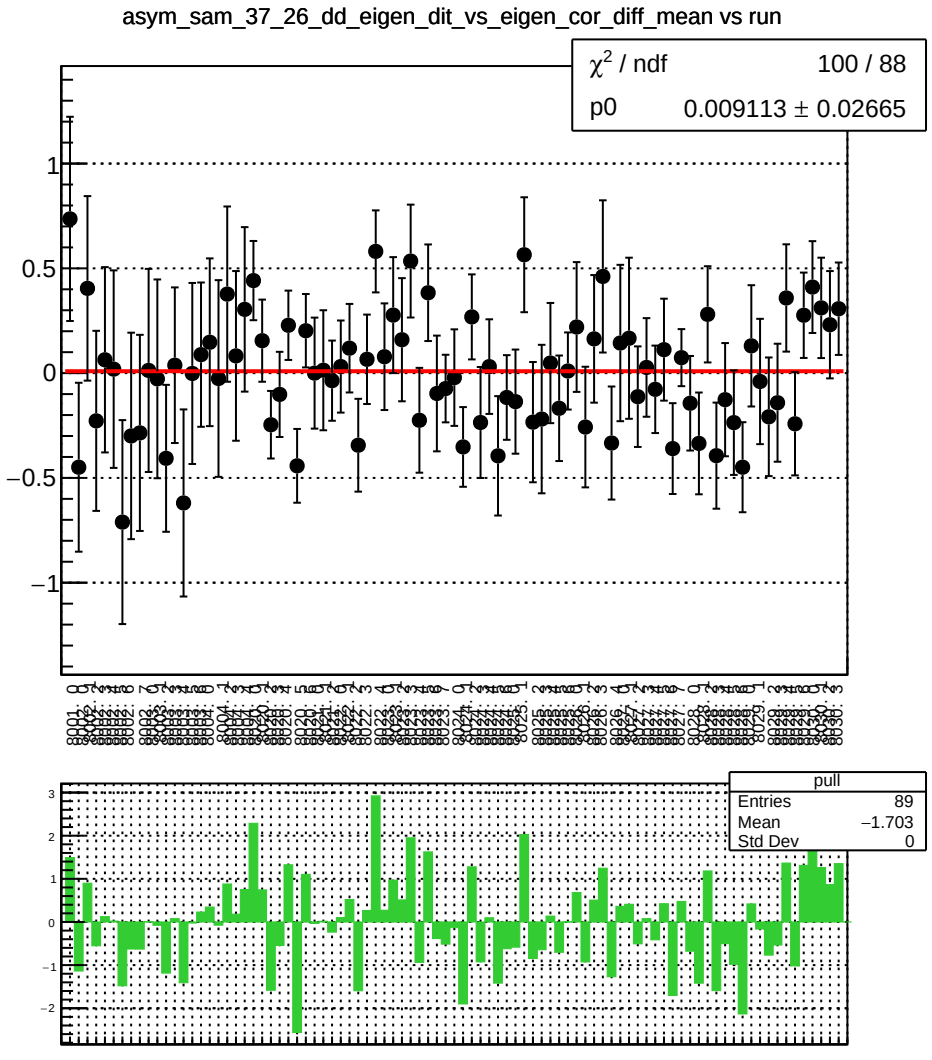

pull1D
Entries 89
Mean 0.006758
Std Dev 0.9742

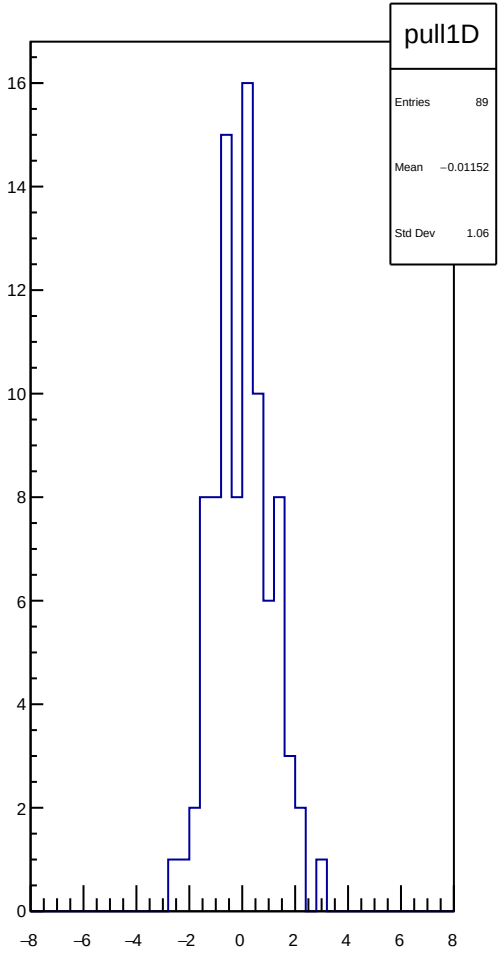

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.38e+05 / 88
p0 0.0009273 ± 8.477e−07
0.0025
0.002
0.0015
0.001
0.0005

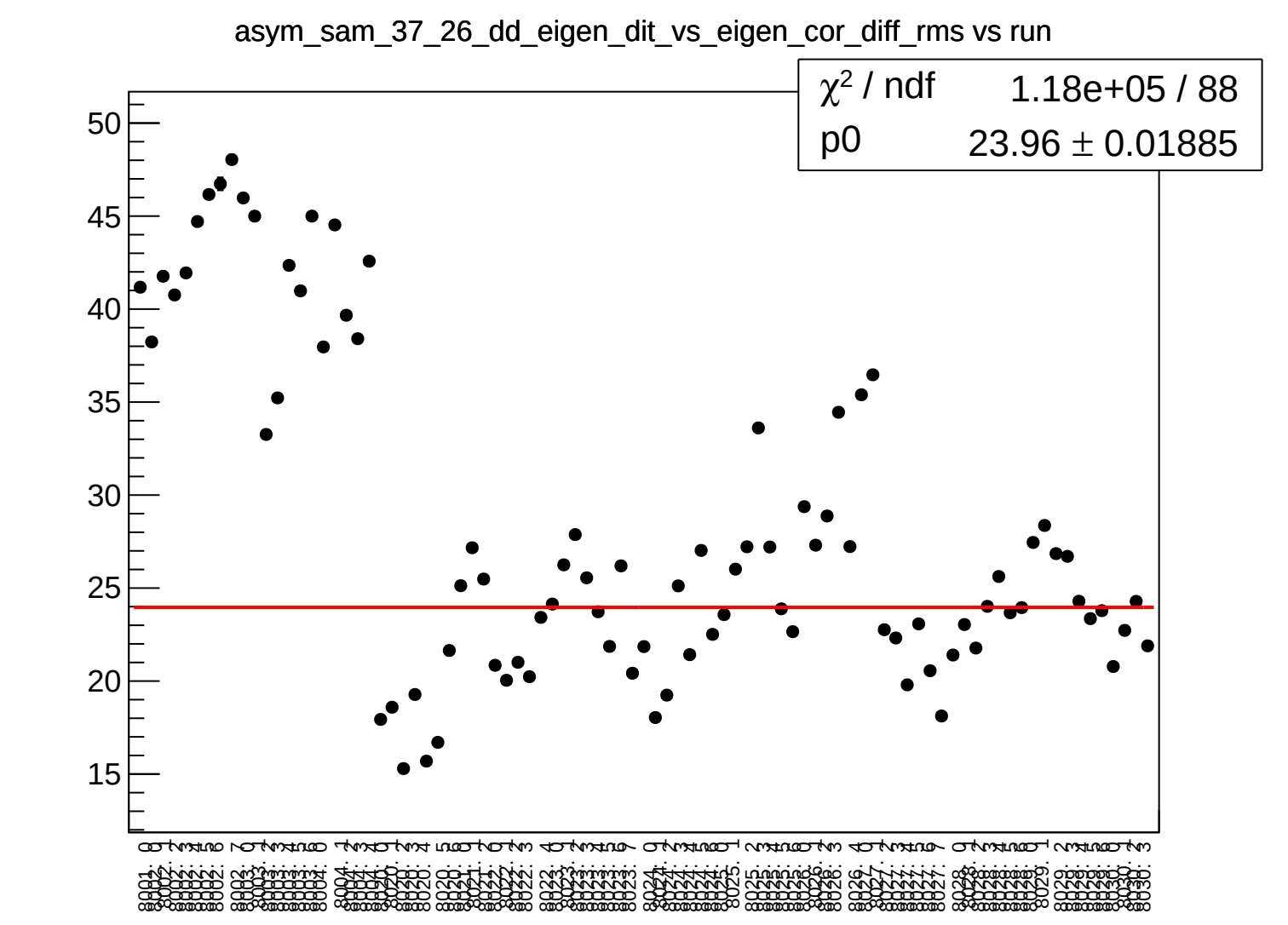

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 100 / 88
p0 0.009113 ± 0.02665
pull
Entries 89
Mean −1.703
Std Dev 0

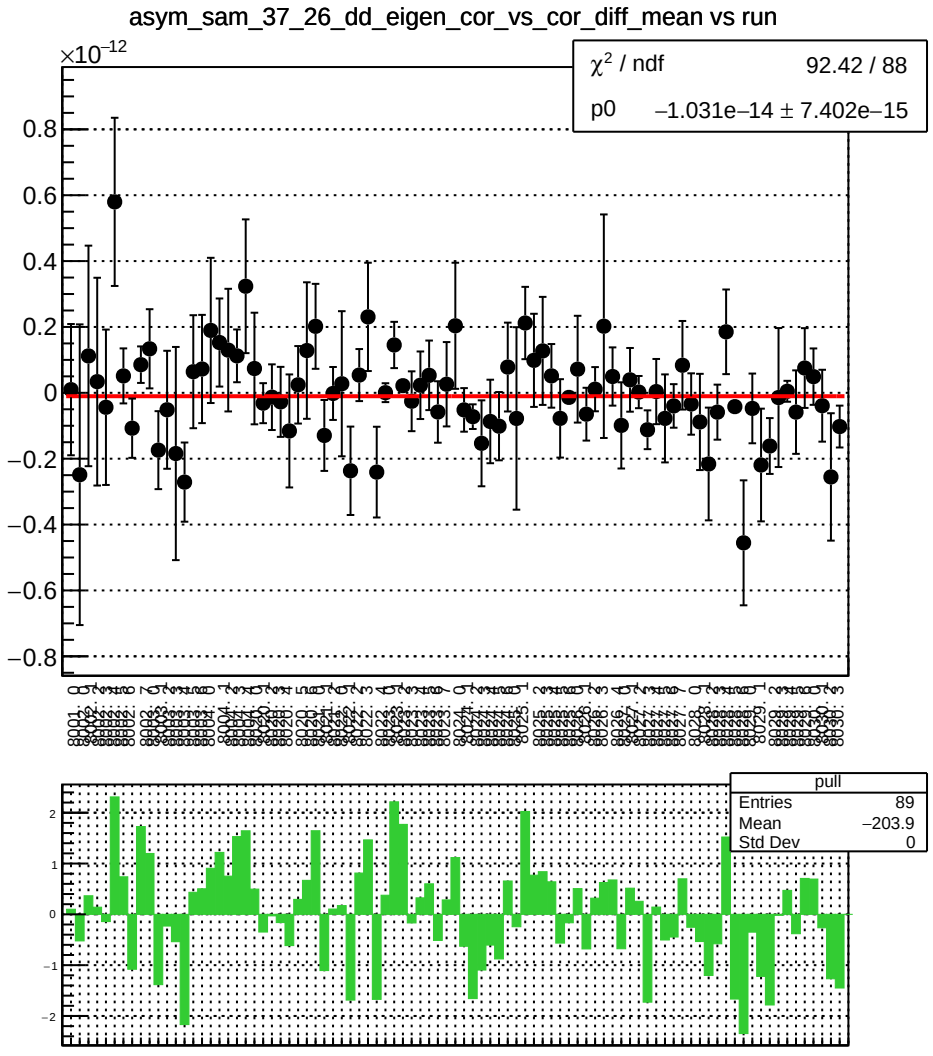

pull1D
Entries 89
Mean −0.01152
Std Dev 1.06

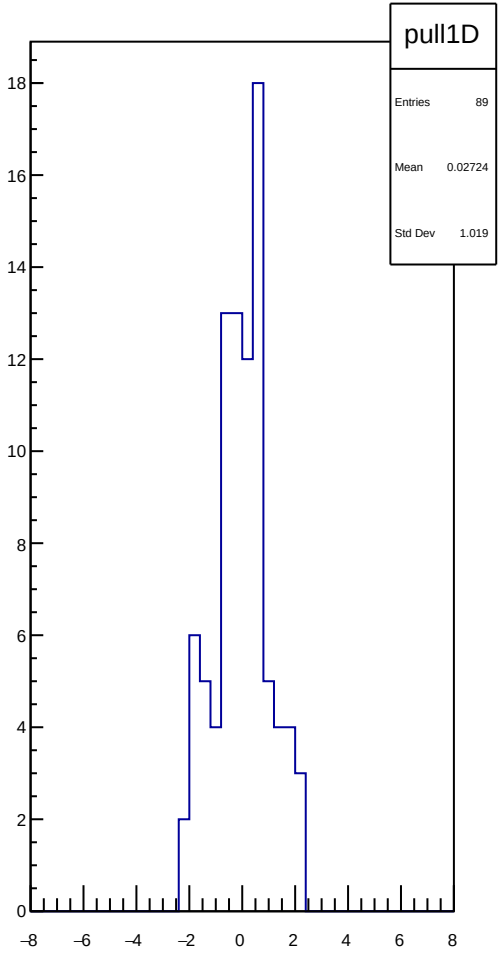

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.18e+05 / 88
p0 23.96 ± 0.01885
50
45
40
35
30
25
20
15

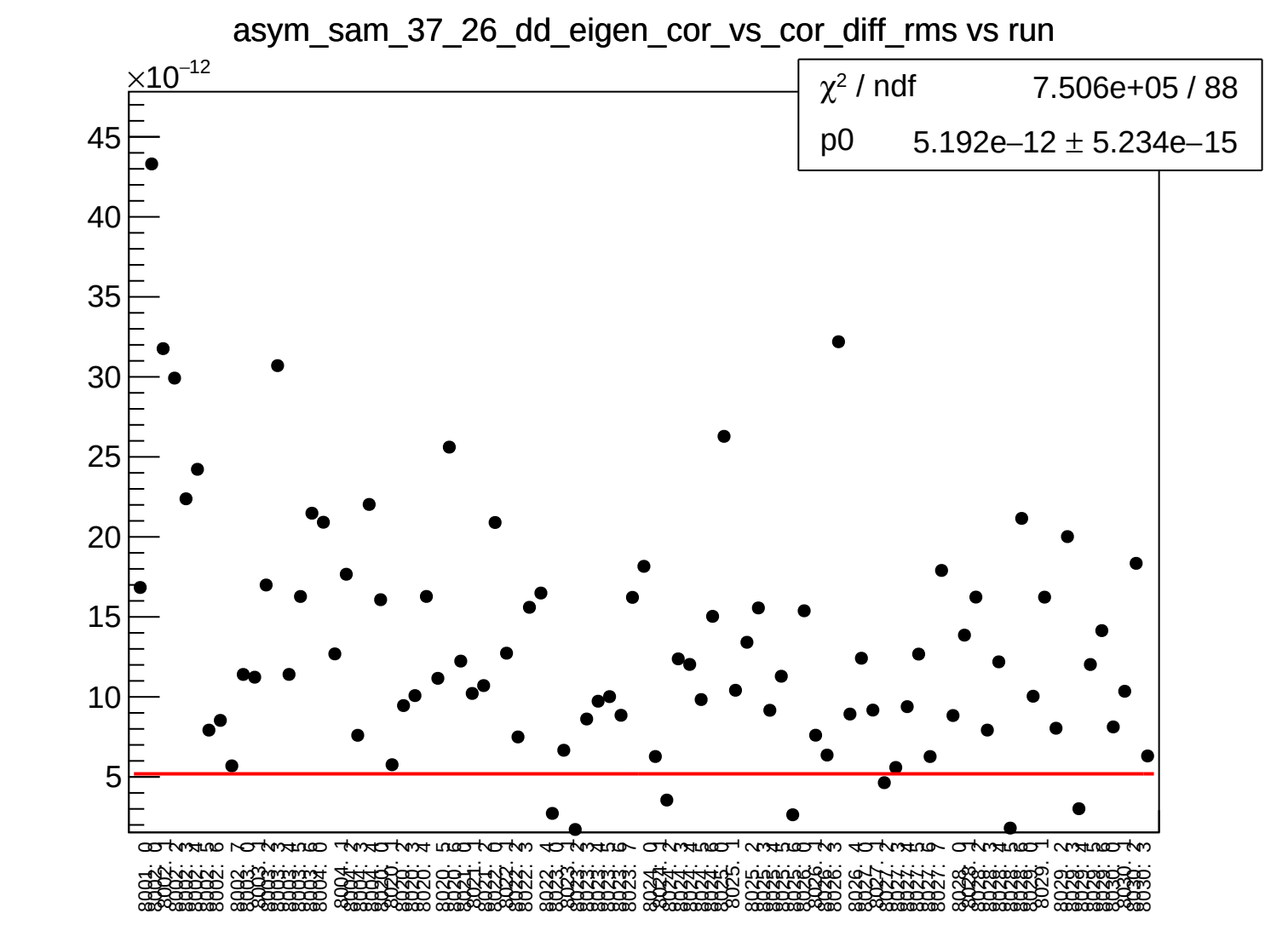

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100 / 88
p0 0.009113 ± 0.02665
pull
Entries 89
Mean −1.703
Std Dev 0

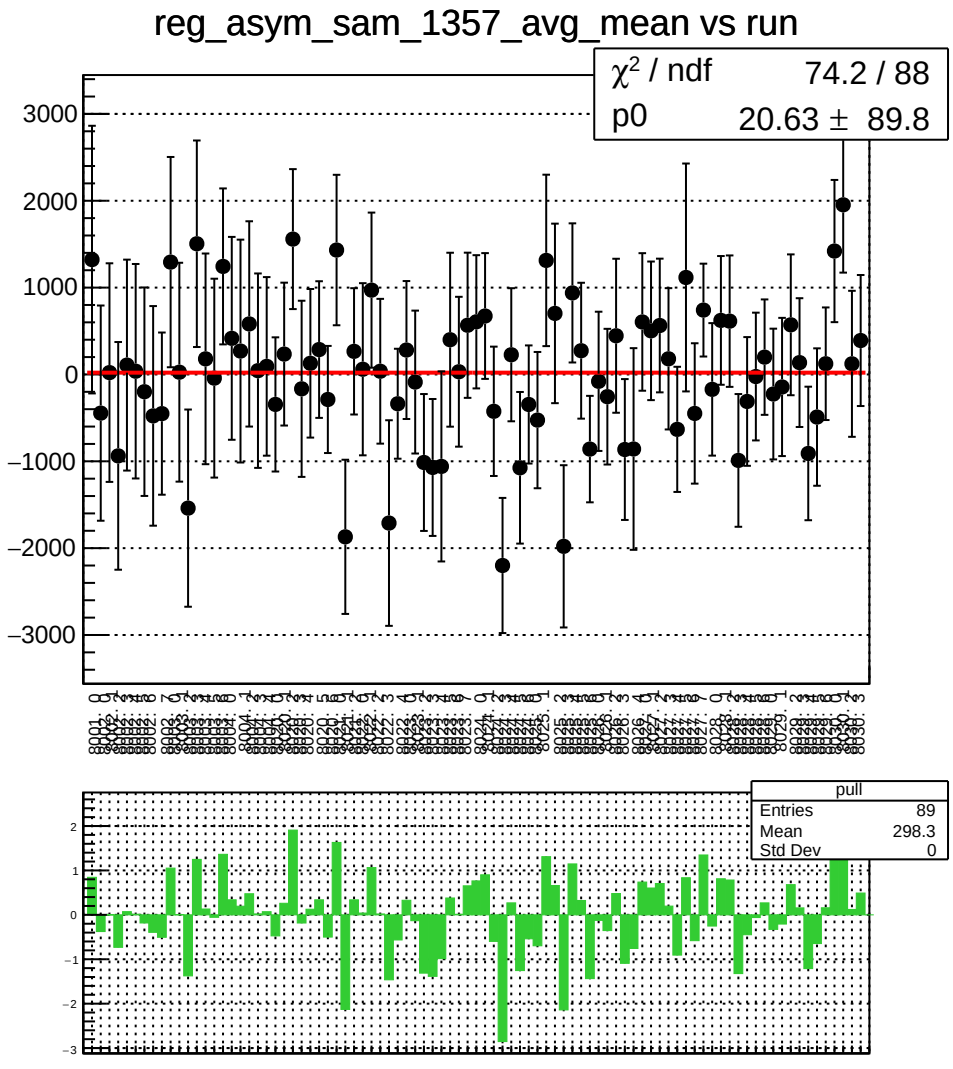

pull1D
Entries 89
Mean −0.01152
Std Dev 1.06

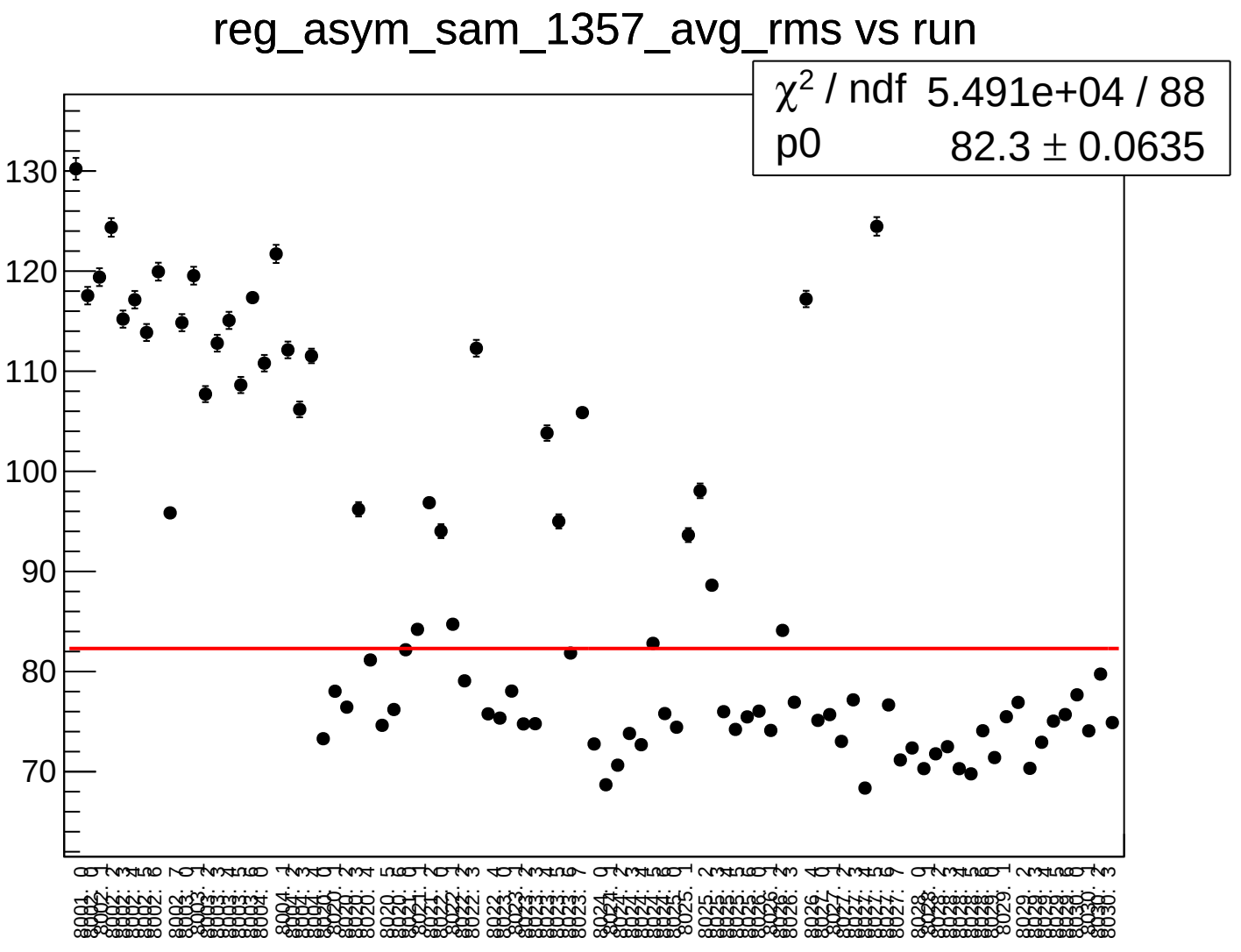

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.18e+05 / 88
p0 23.96 ± 0.01885
50
45
40
35
30
25
20
15

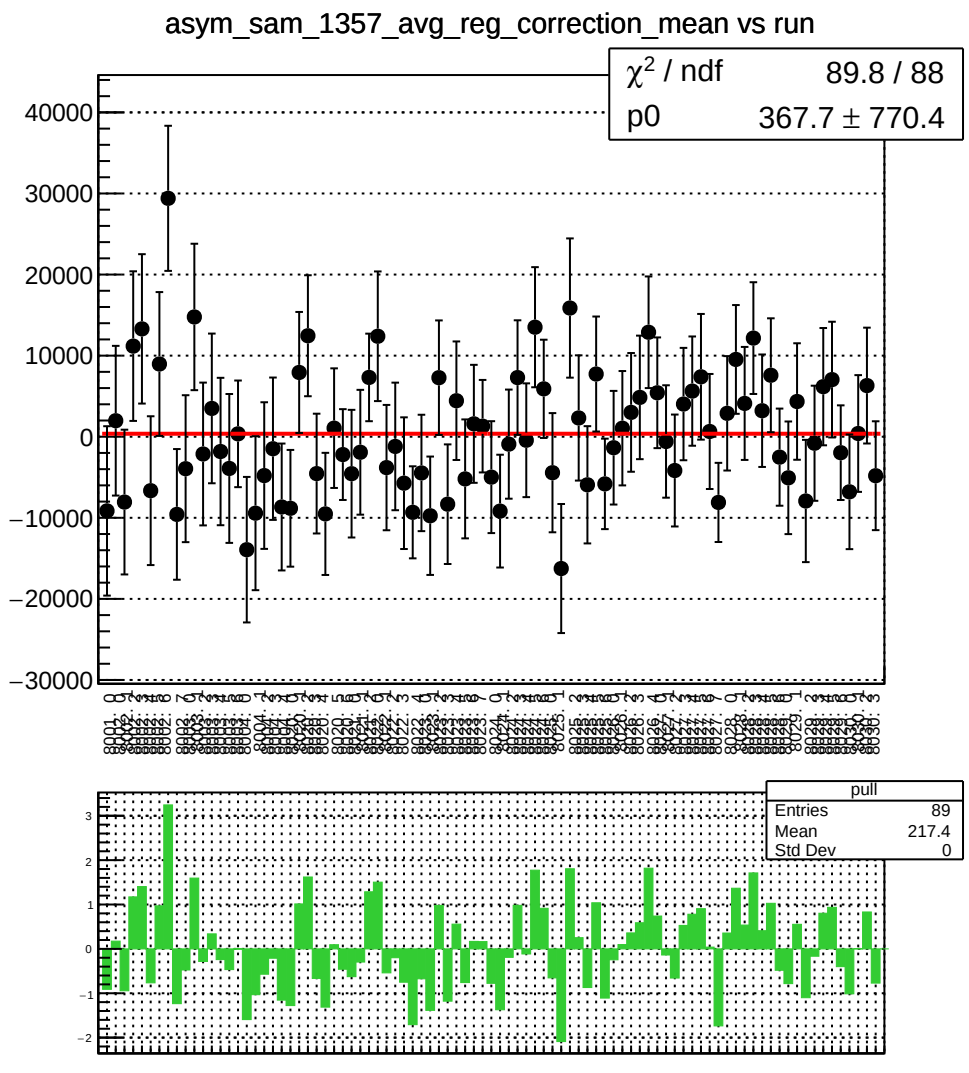

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.42 / 88
p0 −1.031e−14 ± 7.402e−15
pull
Entries 89
Mean −203.9
Std Dev 0

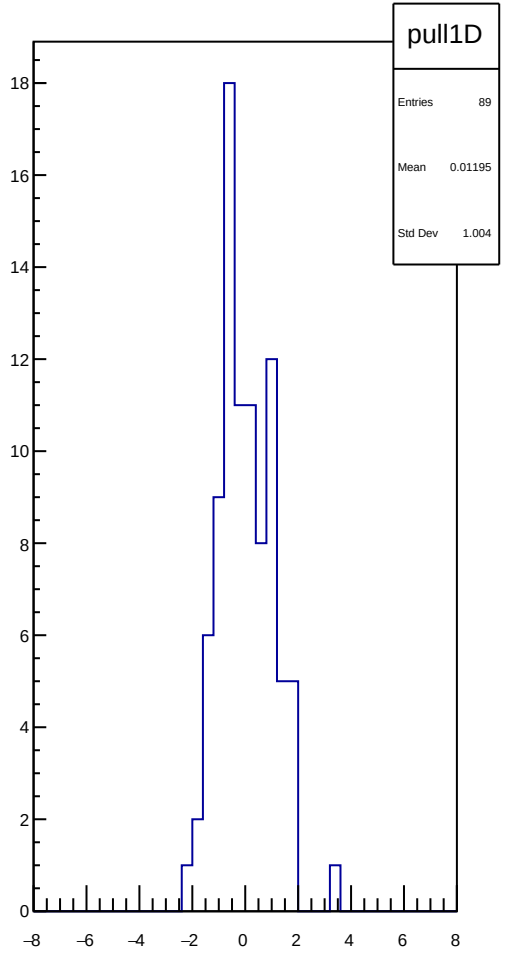

pull1D
Entries 89
Mean 0.02724
Std Dev 1.019

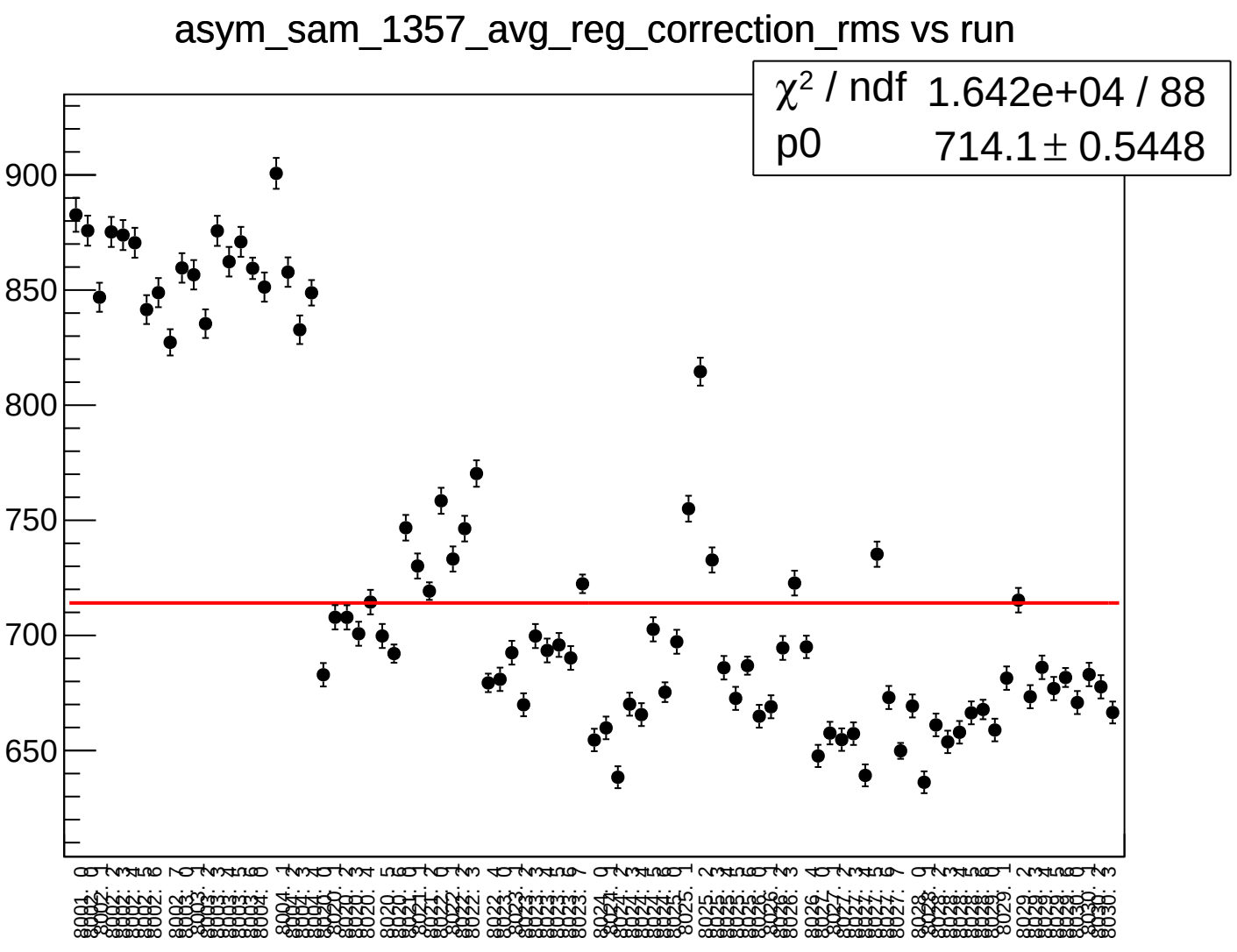

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.506e+05 / 88
p0 5.192e−12 ± 5.234e−15
45
40
35
30
25
20
15
10
5

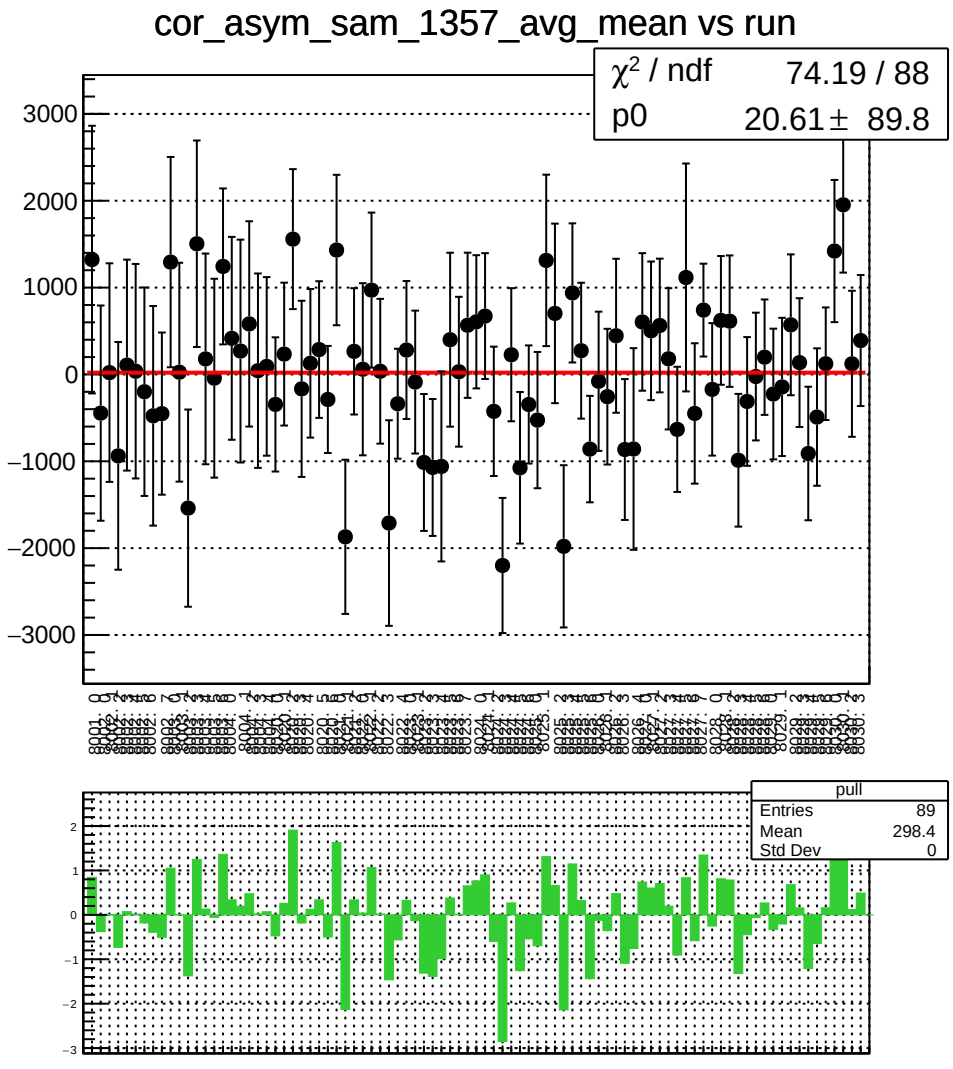

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 74.2 / 88
p0 20.63 ± 89.8
pull
Entries 89
Mean 298.3
Std Dev 0
pull1D
Entries 89
Mean 0.003449
Std Dev 0.913

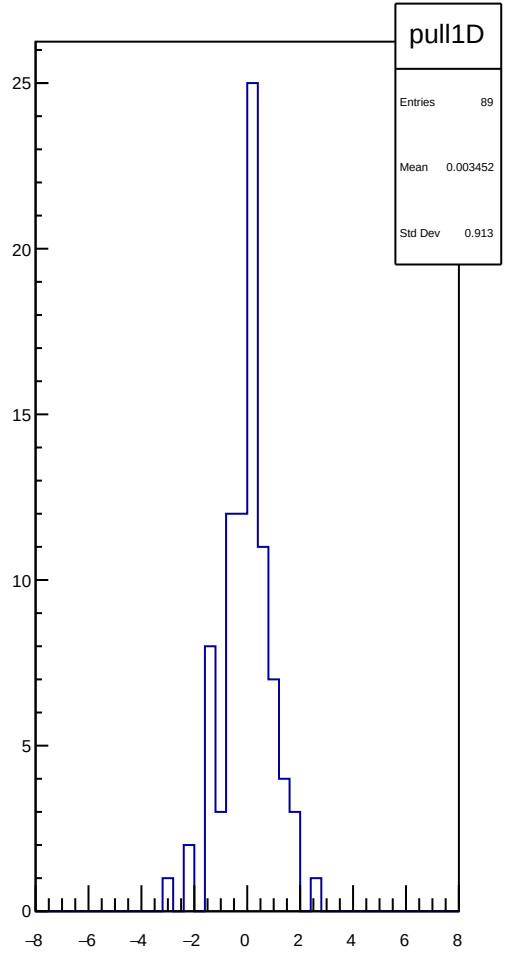

reg_asym_sam_1357_avg_rms vs run
χ^2 / ndf 5.491e+04 / 88
p0 82.3 ± 0.0635
130
120
110
100
90
80
70

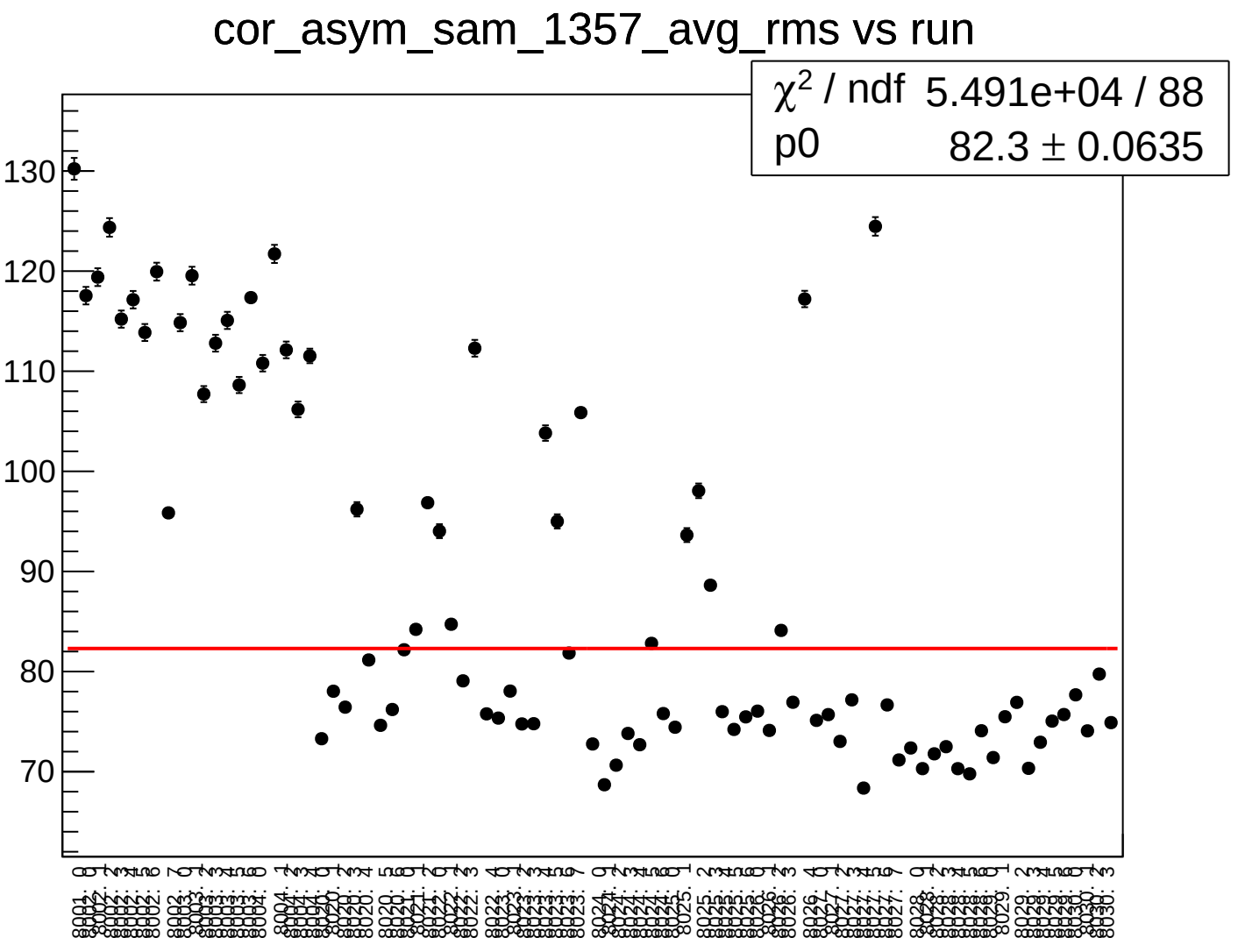

asym_sam_1357_avg_reg_correction_mean vs run
χ² / ndf 89.8 / 88
p0 367.7 ± 770.4
pull
Entries 89
Mean 217.4
Std Dev 0

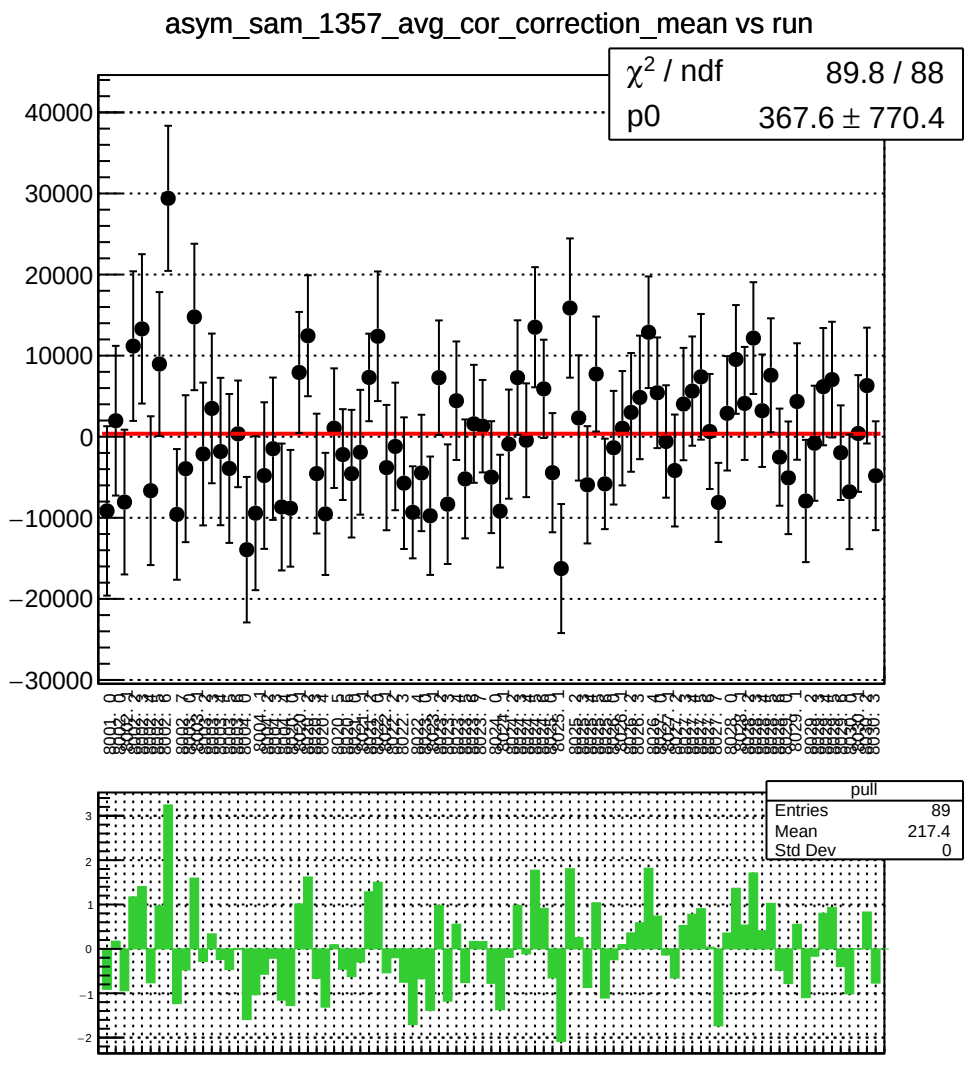

pull1D
Entries 89
Mean 0.01195
Std Dev 1.004

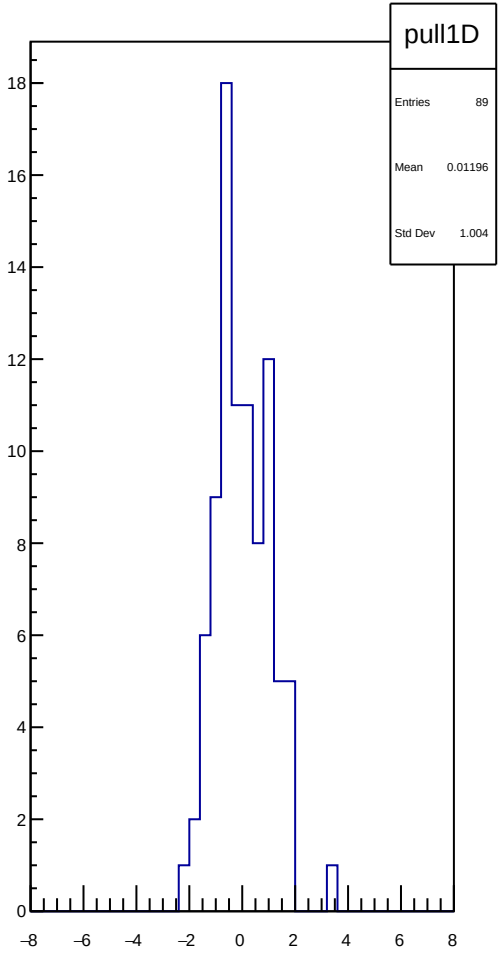

asym_sam_1357_avg_reg_correction_rms vs run
χ² / ndf 1.642e+04 / 88
p0 714.1 ± 0.5448
900
850
800
750
700
650

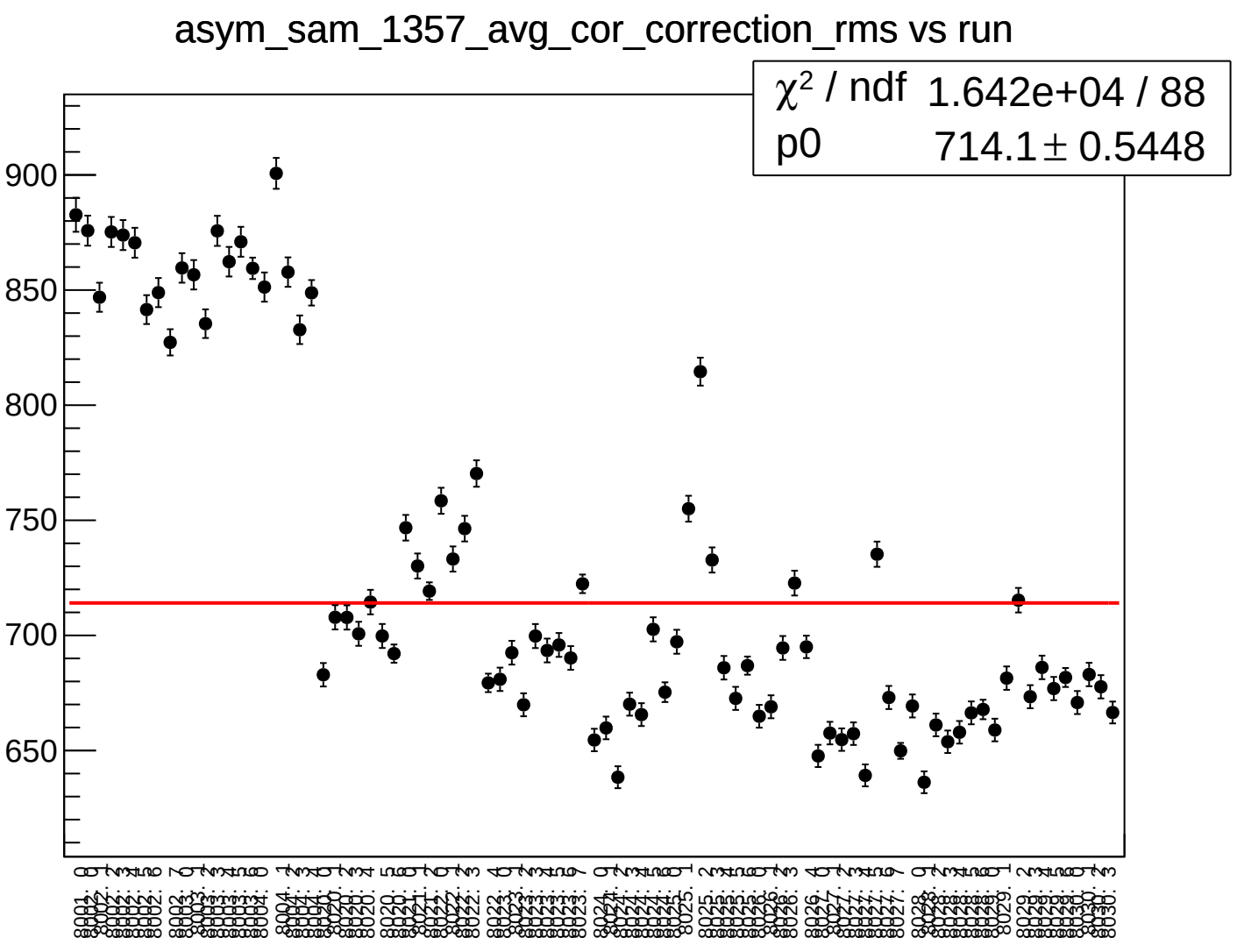

cor_asym_sam_1357_avg_mean vs run
χ² / ndf 74.19 / 88
p0 20.61 ± 89.8
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean 298.4
Std Dev 0
2
1
0
−1
−2
−3

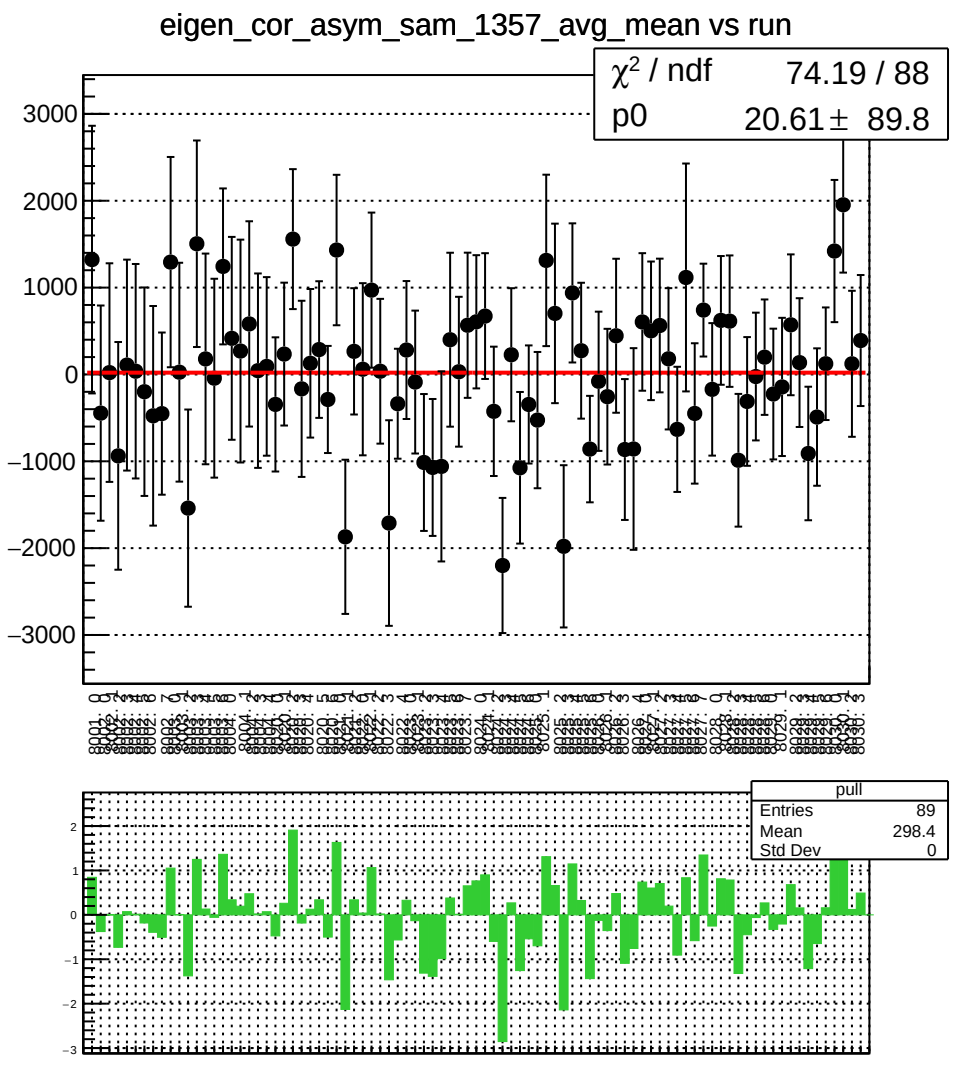

pull1D
Entries 89
Mean 0.003452
Std Dev 0.913
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

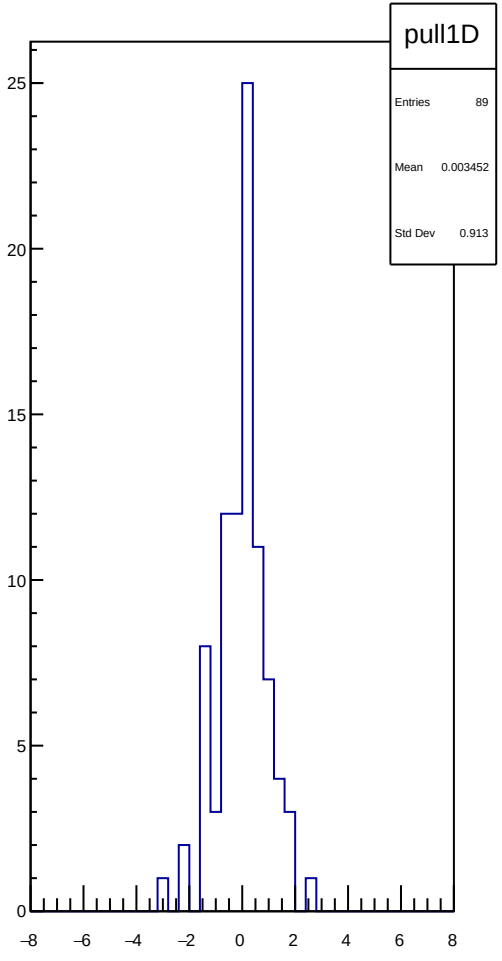

cor_asym_sam_1357_avg_rms vs run
χ^2 / ndf 5.491e+04 / 88
p0 82.3 ± 0.0635
130
120
110
100
90
80
70

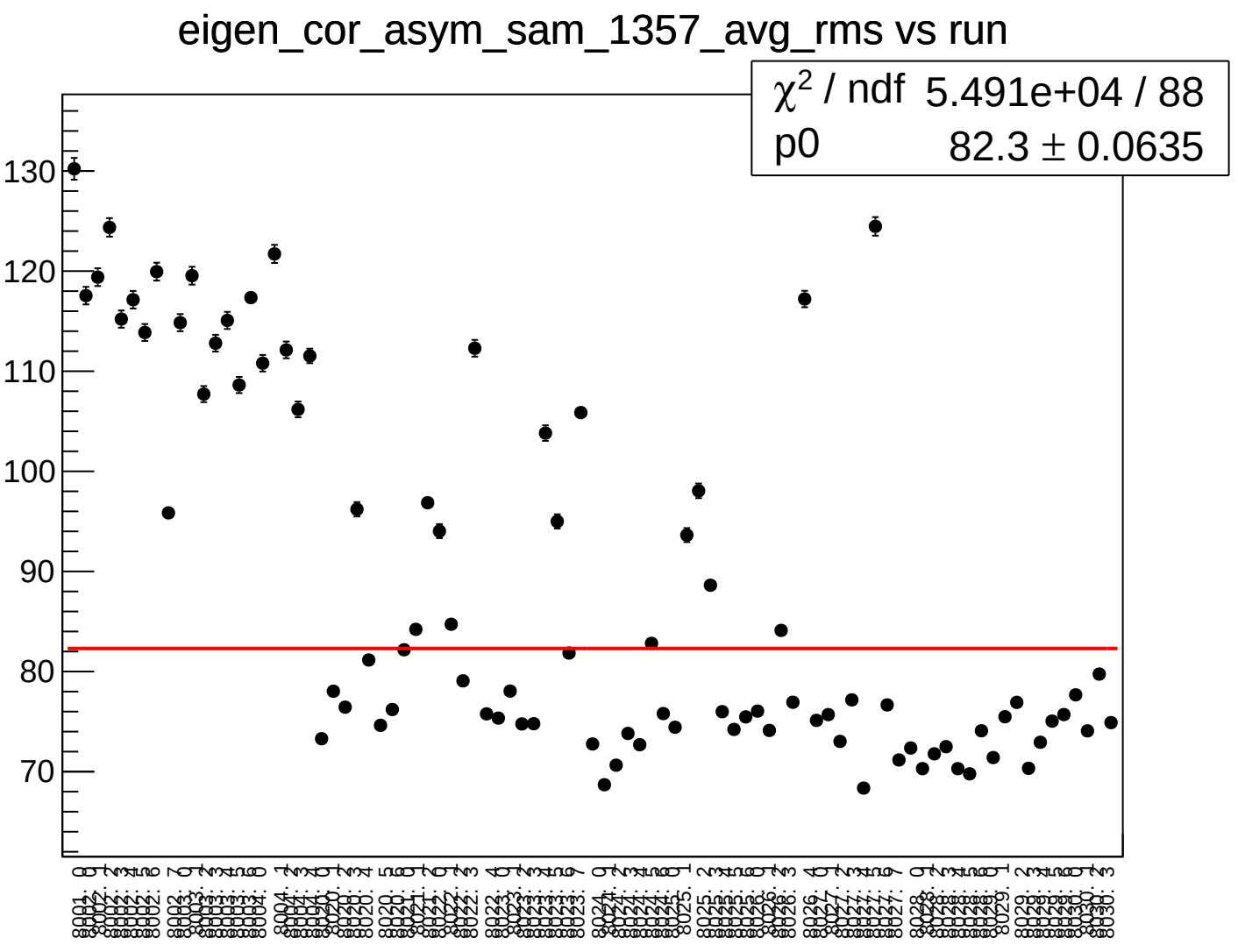

asym_sam_1357_avg_cor_correction_mean vs run
χ² / ndf 89.8 / 88
p0 367.6 ± 770.4
pull
Entries 89
Mean 217.4
Std Dev 0

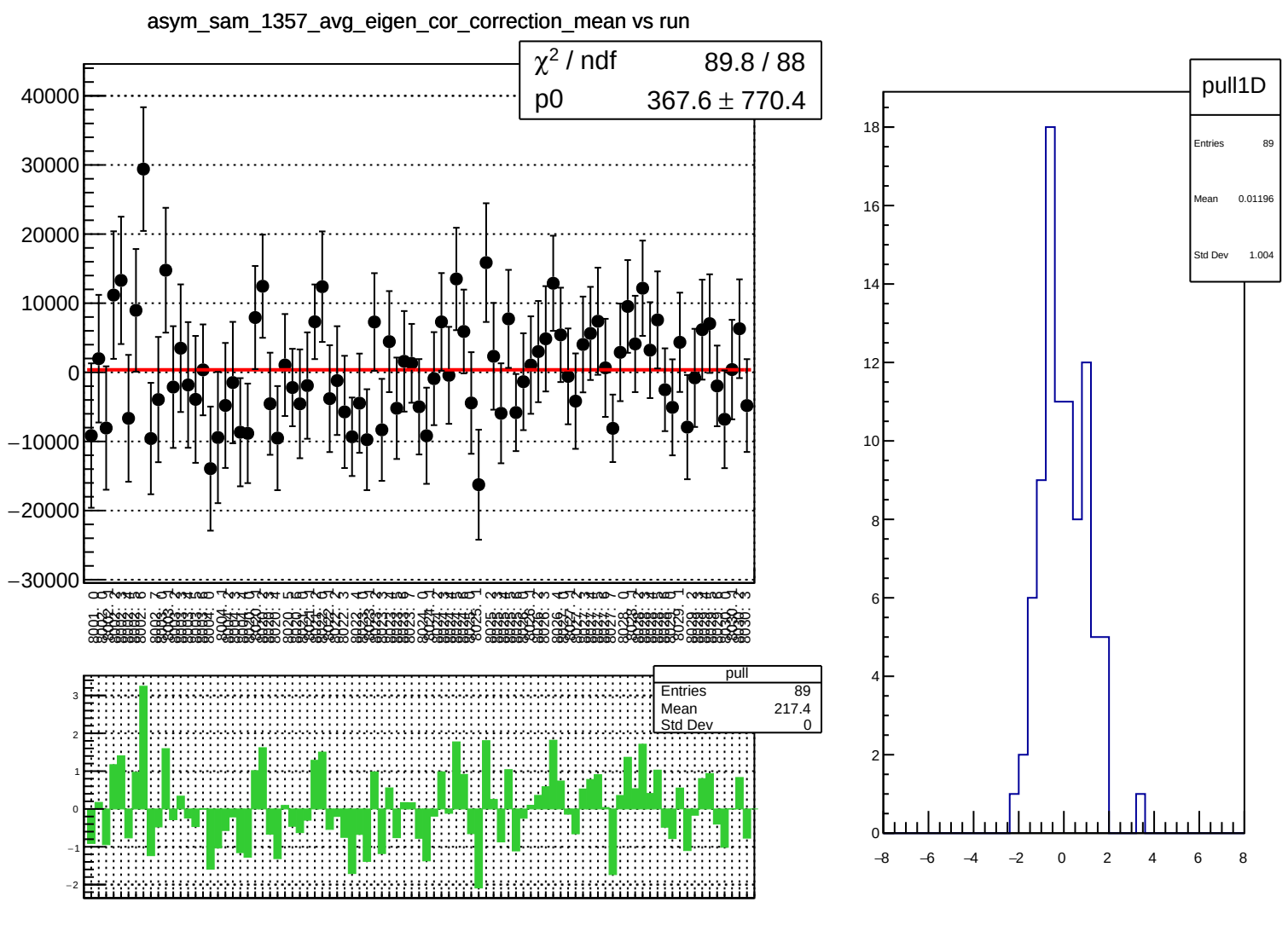

pull1D
Entries 89
Mean 0.01196
Std Dev 1.004

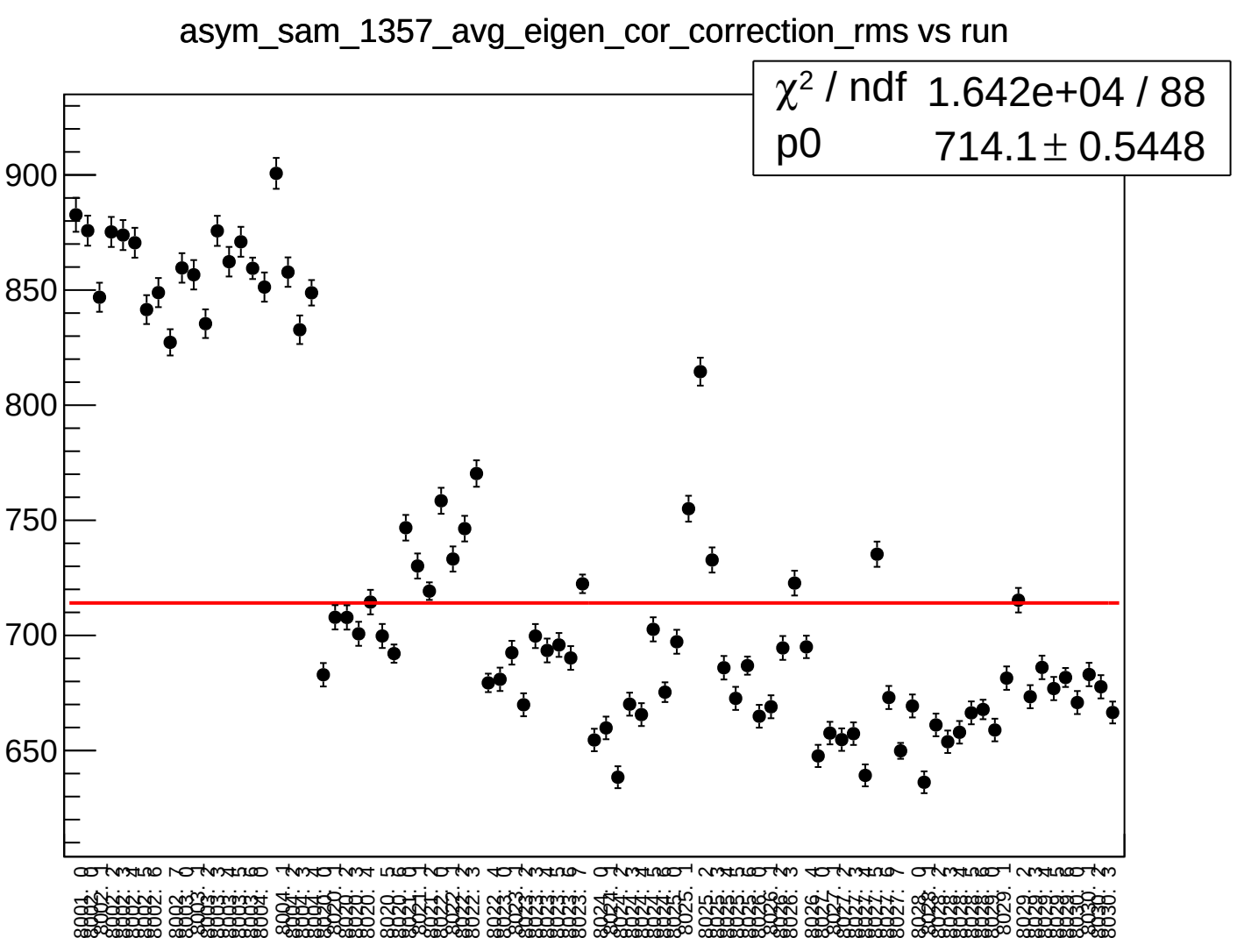

asym_sam_1357_avg_cor_correction_rms vs run
χ² / ndf 1.642e+04 / 88
p0 714.1 ± 0.5448
900
850
800
750
700
650

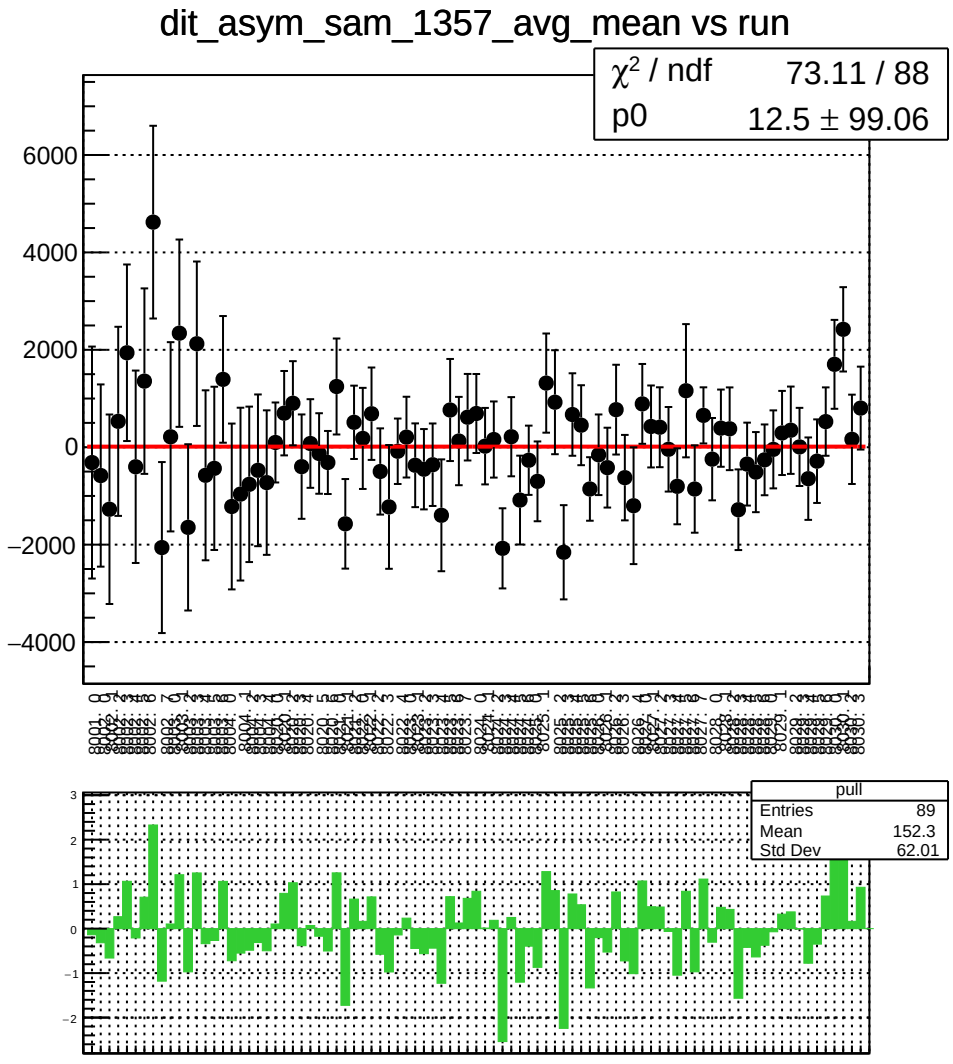

eigen_cor_asym_sam_1357_avg_mean vs run
χ² / ndf 74.19 / 88
p0 20.61 ± 89.8
pull
Entries 89
Mean 298.4
Std Dev 0

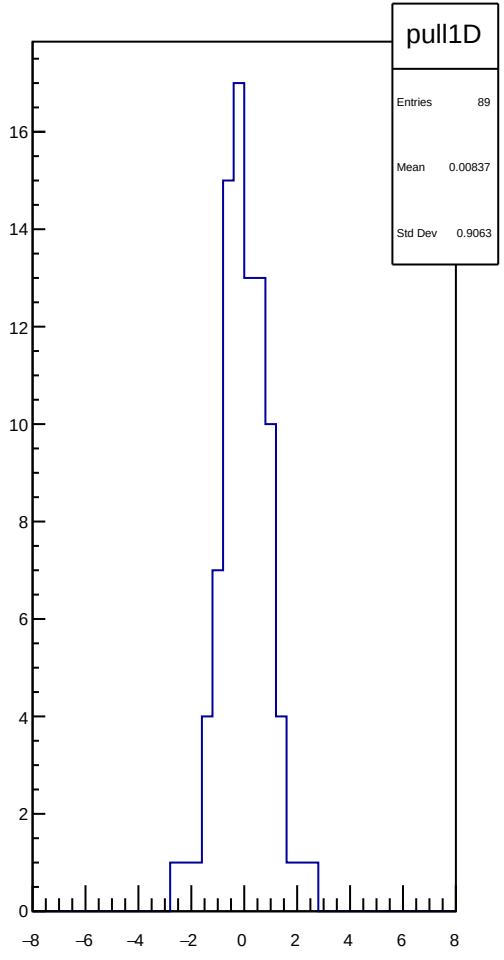

pull1D
Entries 89
Mean 0.003452
Std Dev 0.913

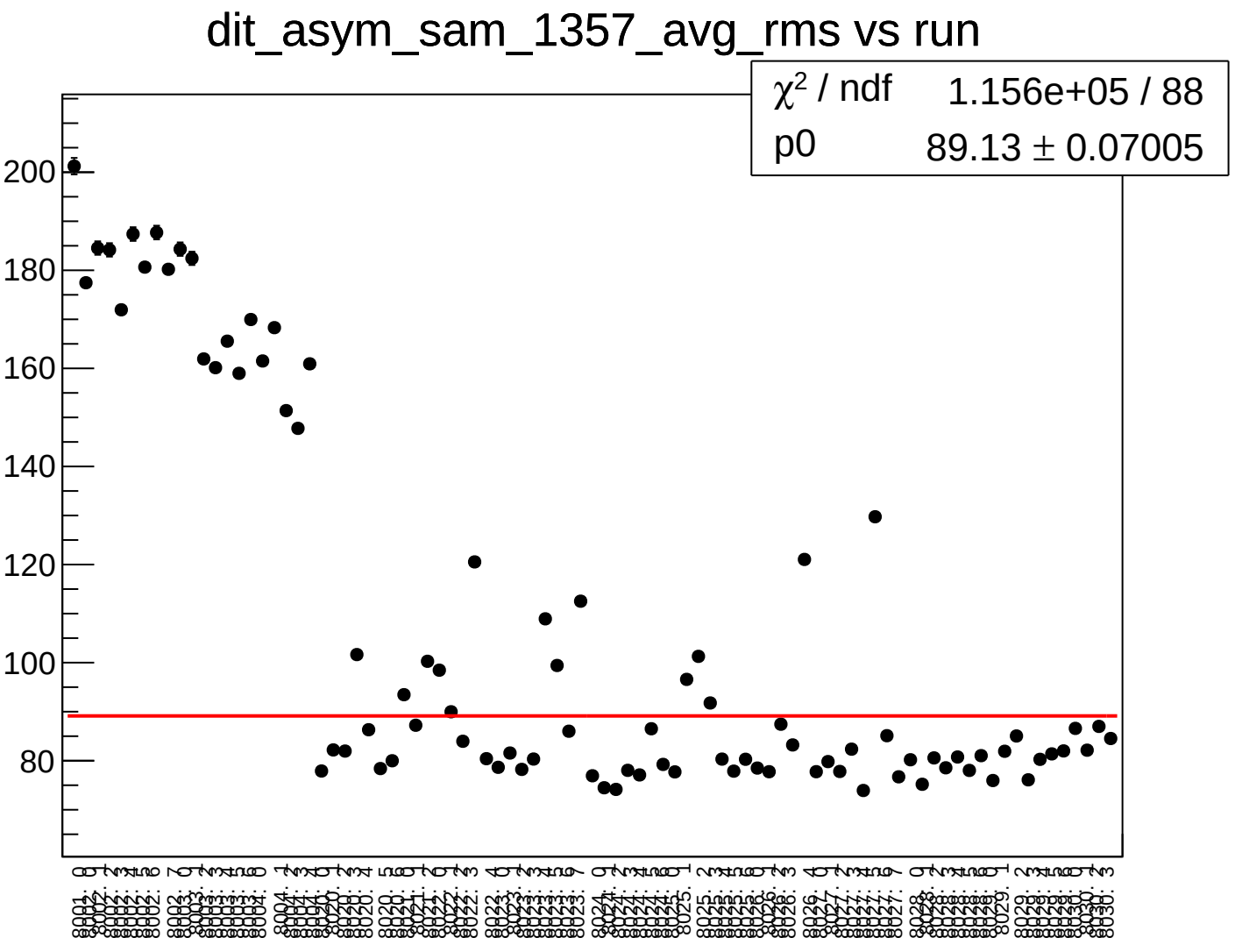

eigen_cor_asym_sam_1357_avg_rms vs run
χ^2 / ndf 5.491e+04 / 88
p0 82.3 ± 0.0635
130
120
110
100
90
80
70

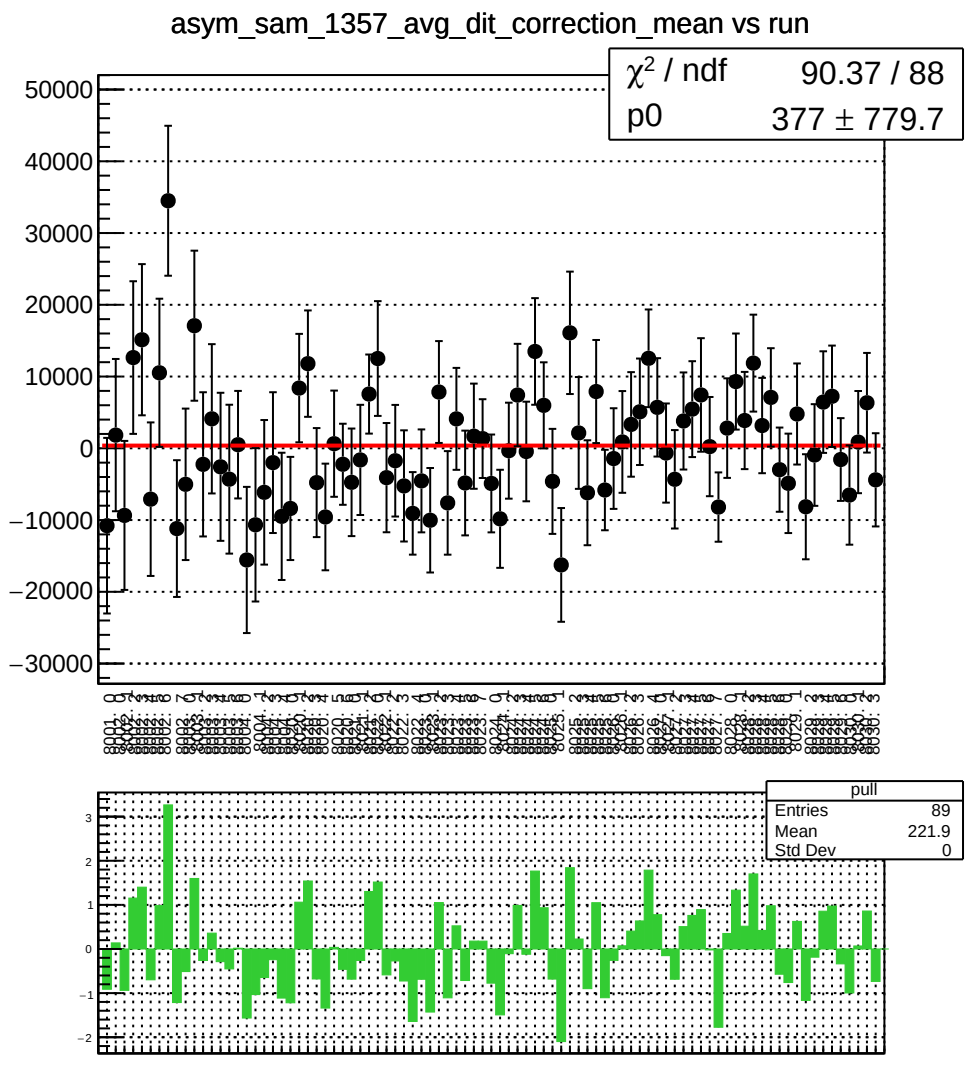

asym_sam_1357_avg_eigen_cor_correction_mean vs run
χ² / ndf 89.8 / 88
p0 367.6 ± 770.4
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 217.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.01196
Std Dev 1.004
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

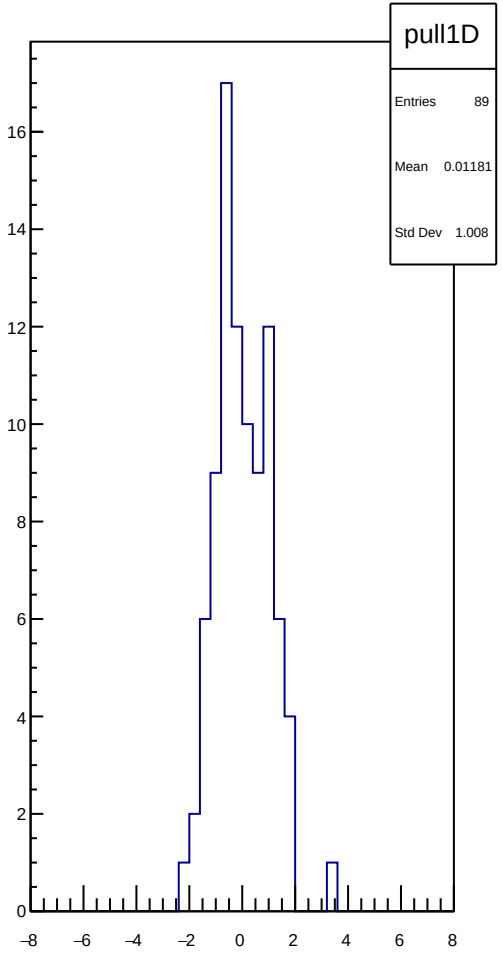

asym_sam_1357_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.642e+04 / 88
p0 714.1 ± 0.5448
900
850
800
750
700
650

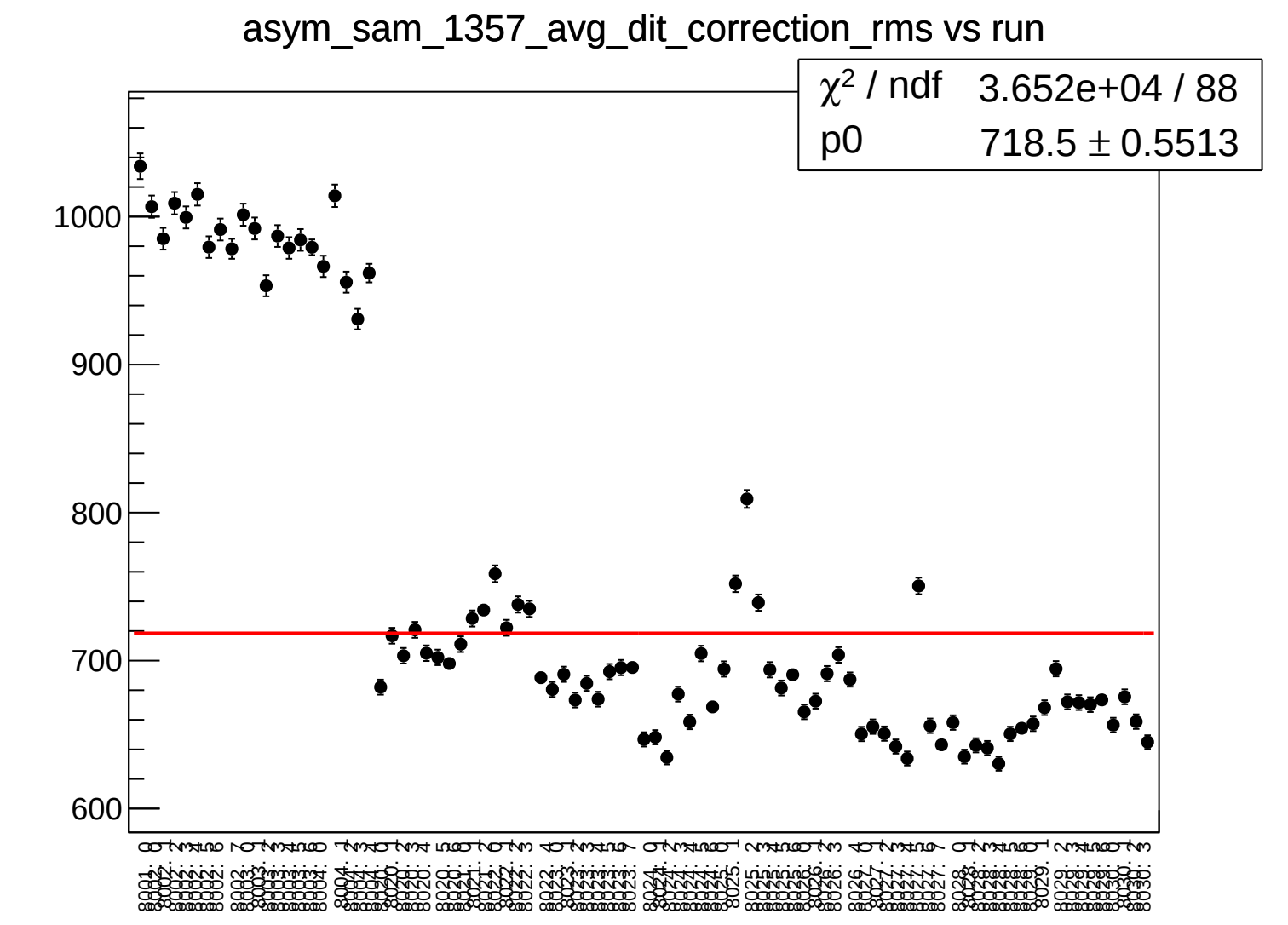

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 73.11 / 88
p0 12.5 ± 99.06
6000
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 152.3
Std Dev 62.01
3
2
1
0
−1
−2

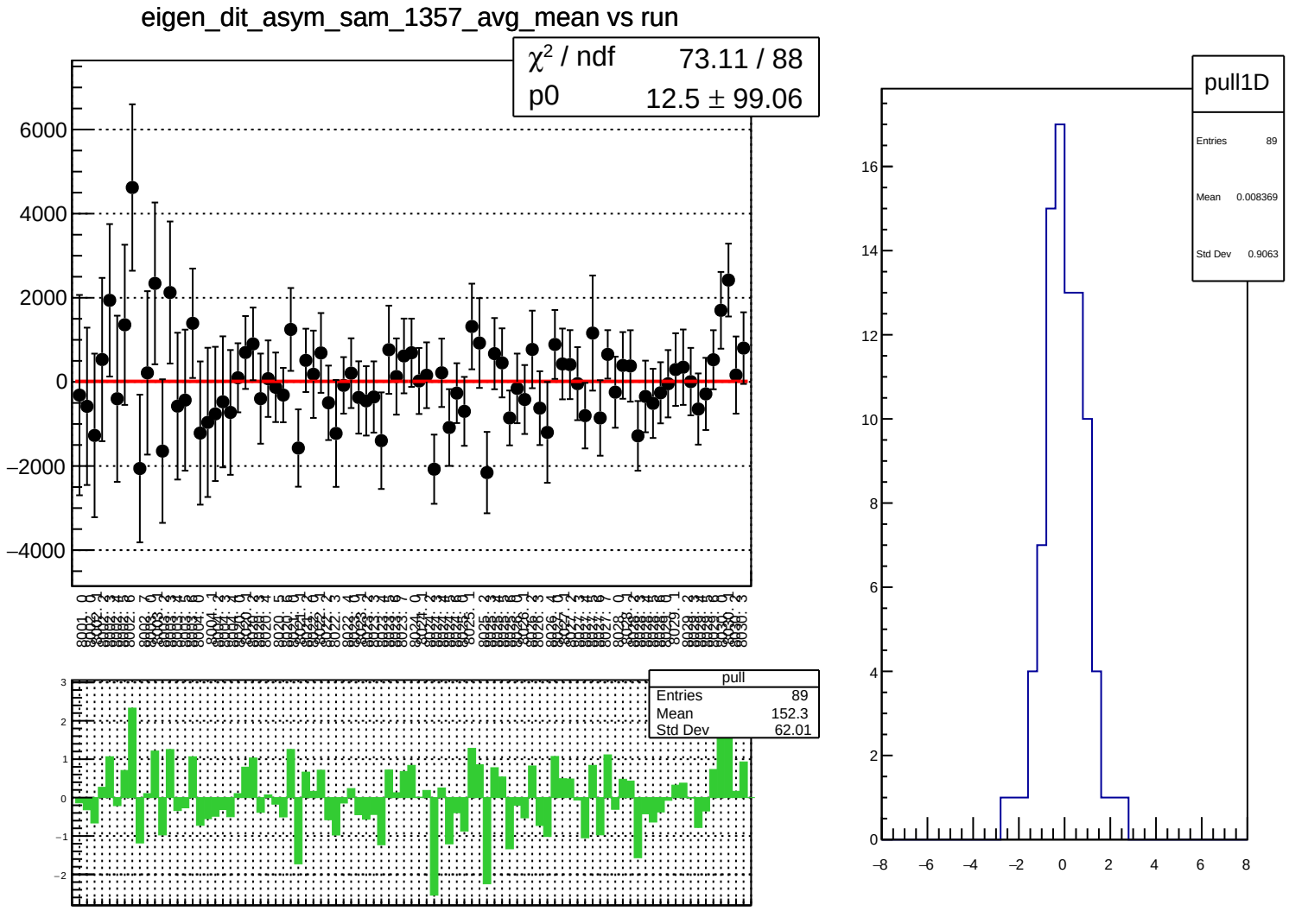

pull1D
Entries 89
Mean 0.00837
Std Dev 0.9063
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

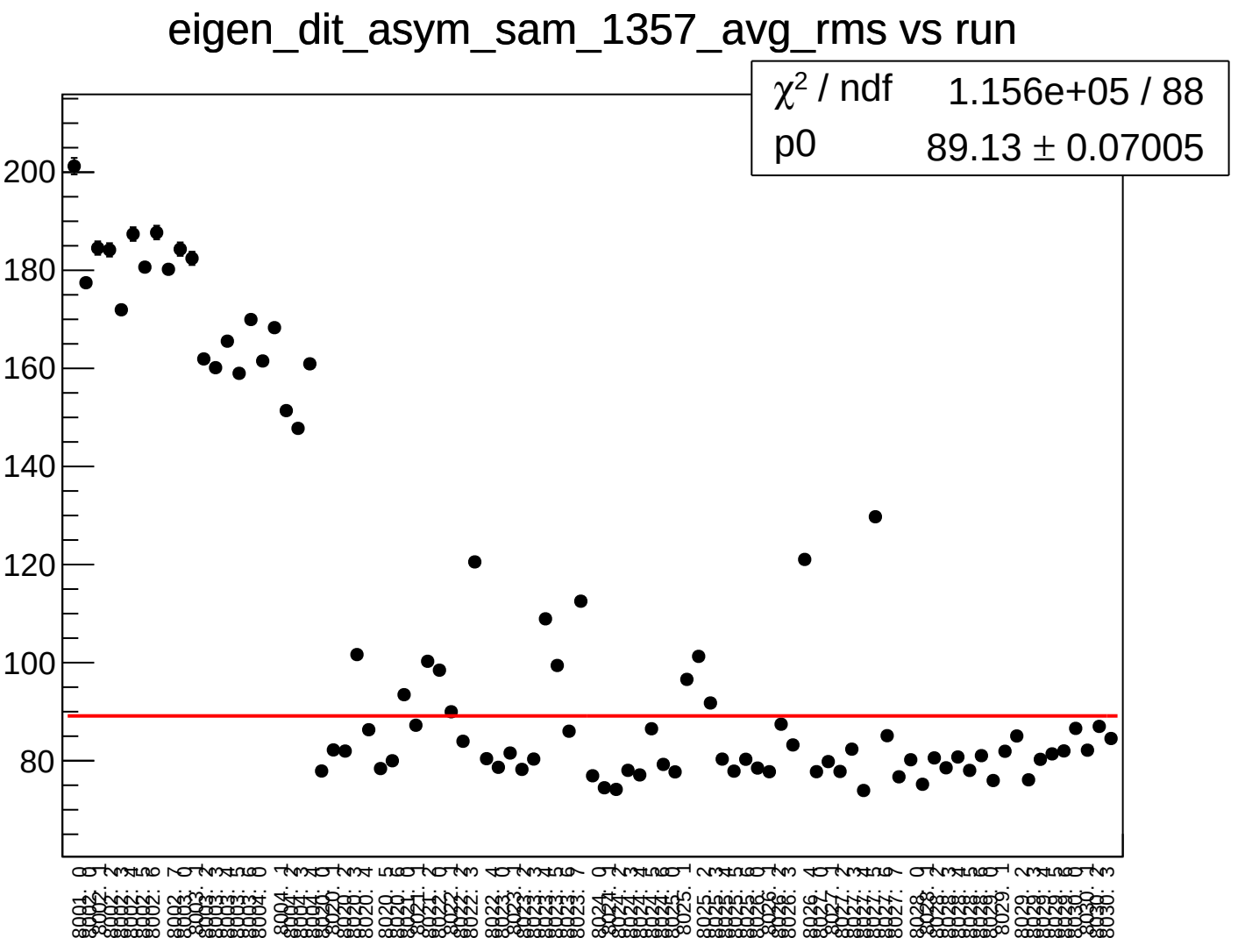

dit_asym_sam_1357_avg_rms vs run
χ² / ndf 1.156e+05 / 88
p0 89.13 ± 0.07005
200
180
160
140
120
100
80

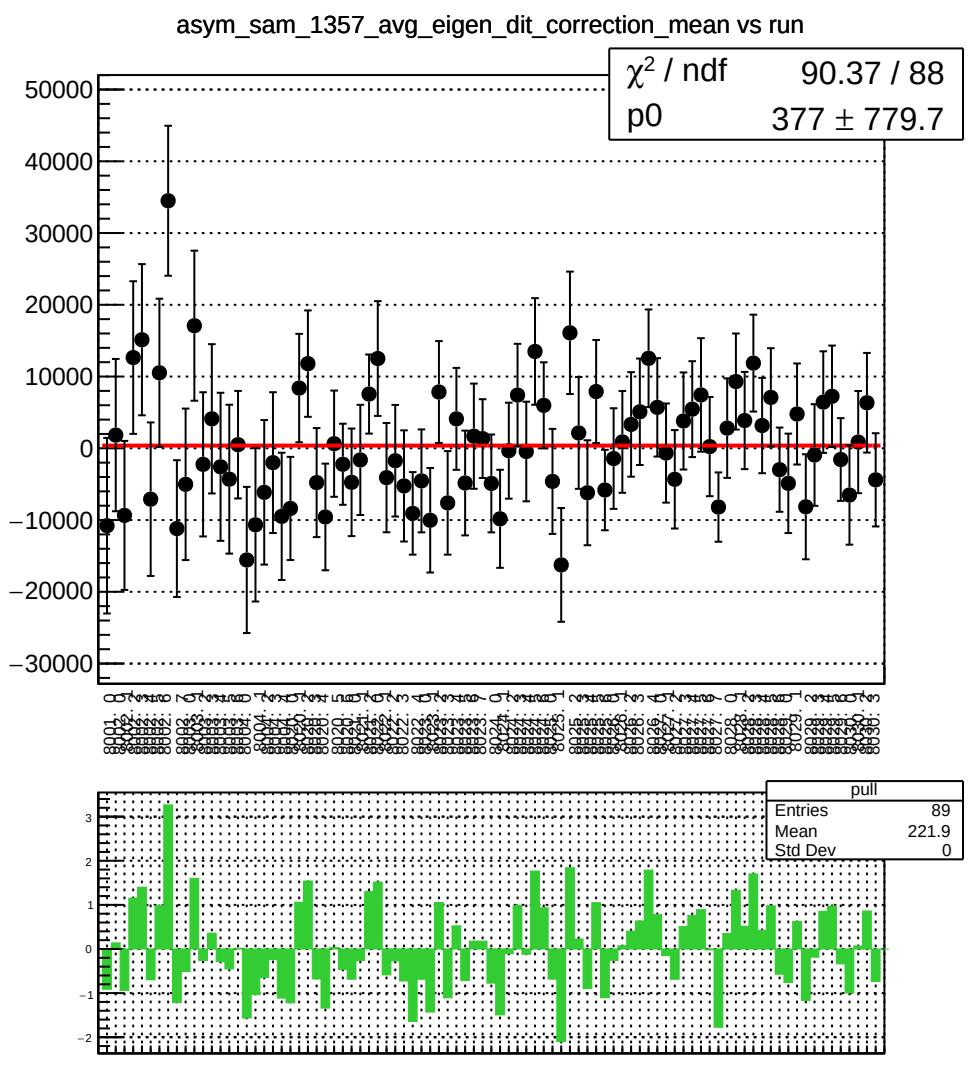

asym_sam_1357_avg_dit_correction_mean vs run
χ² / ndf 90.37 / 88
p0 377 ± 779.7
pull
Entries 89
Mean 221.9
Std Dev 0

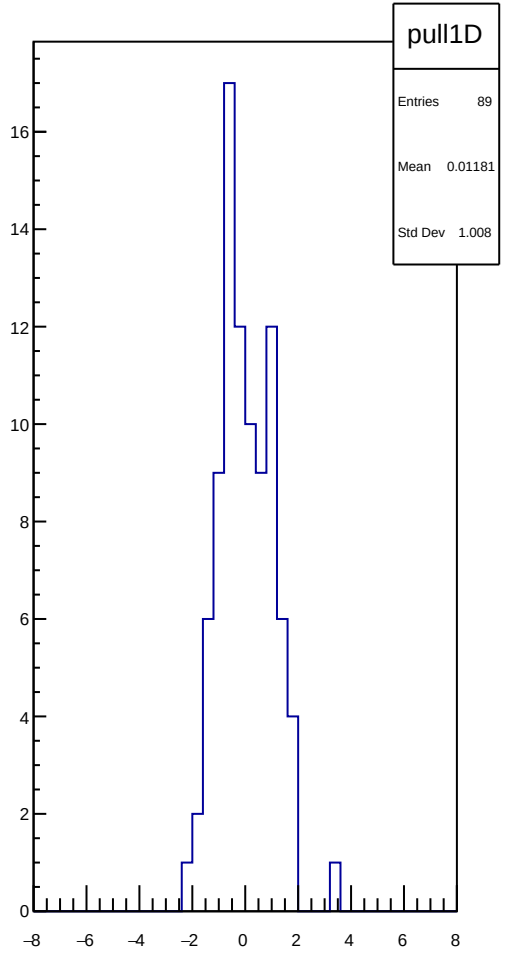

pull1D
Entries 89
Mean 0.01181
Std Dev 1.008

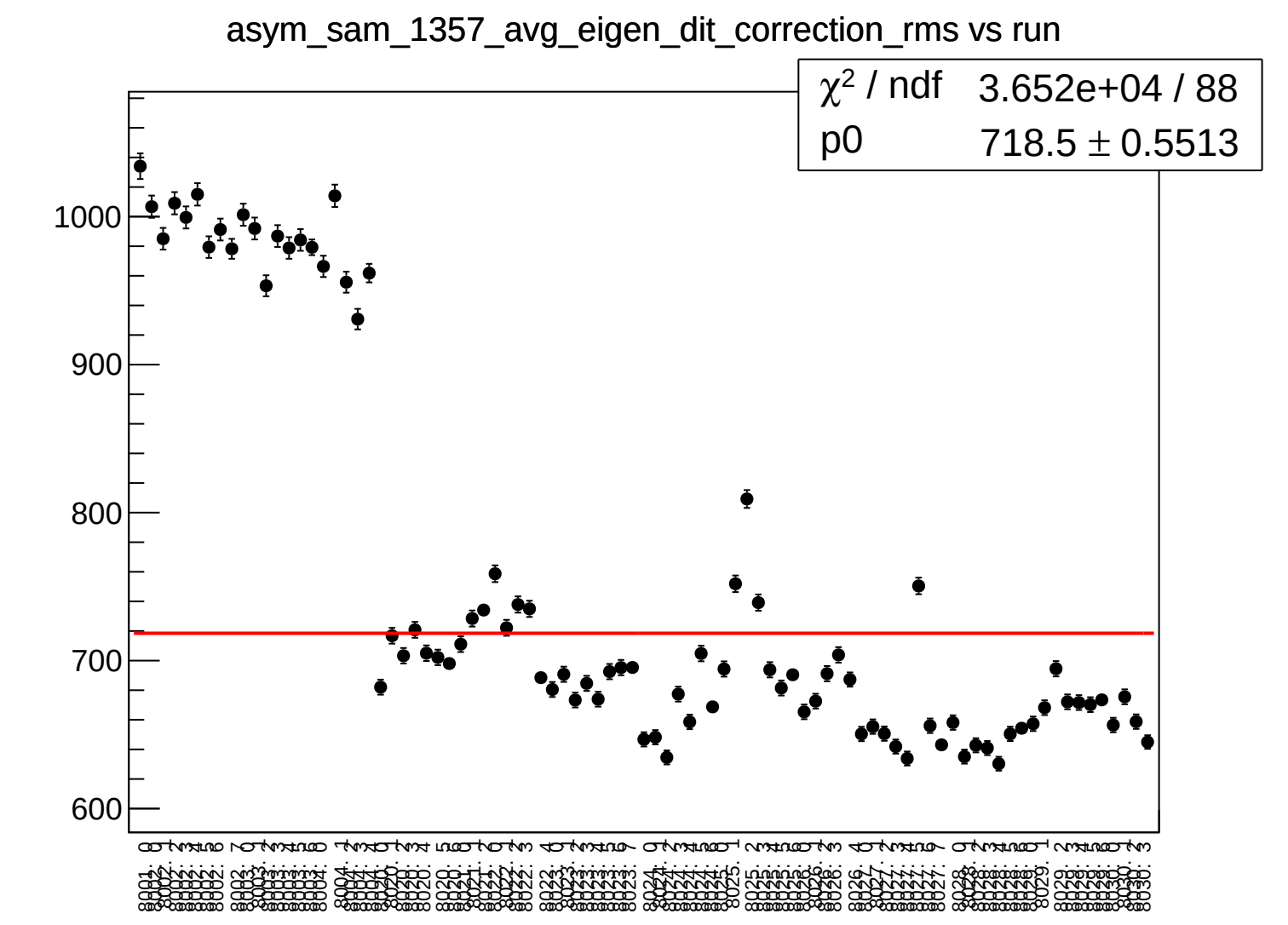

asym_sam_1357_avg_dit_correction_rms vs run
χ² / ndf 3.652e+04 / 88
p0 718.5 ± 0.5513
1000
900
800
700
600

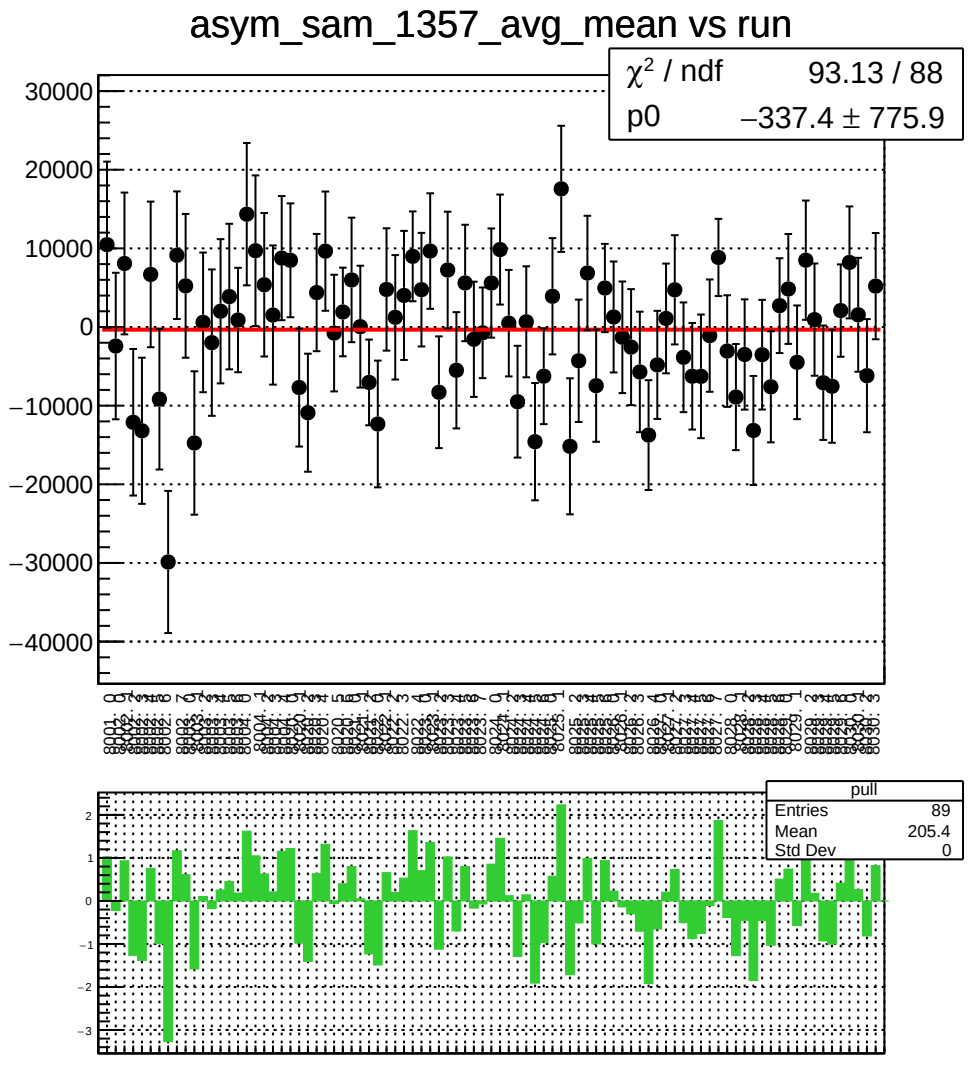

eigen_dit_asym_sam_1357_avg_mean vs run
χ² / ndf 73.11 / 88
p0 12.5 ± 99.06
6000
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 152.3
Std Dev 62.01
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.008369
Std Dev 0.9063
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

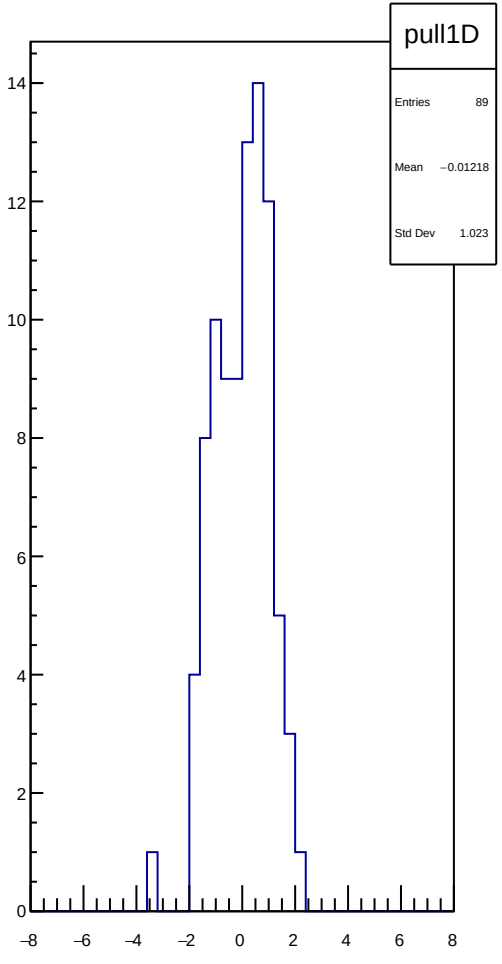

eigen_dit_asym_sam_1357_avg_rms vs run
χ² / ndf 1.156e+05 / 88
p0 89.13 ± 0.07005
200
180
160
140
120
100
80

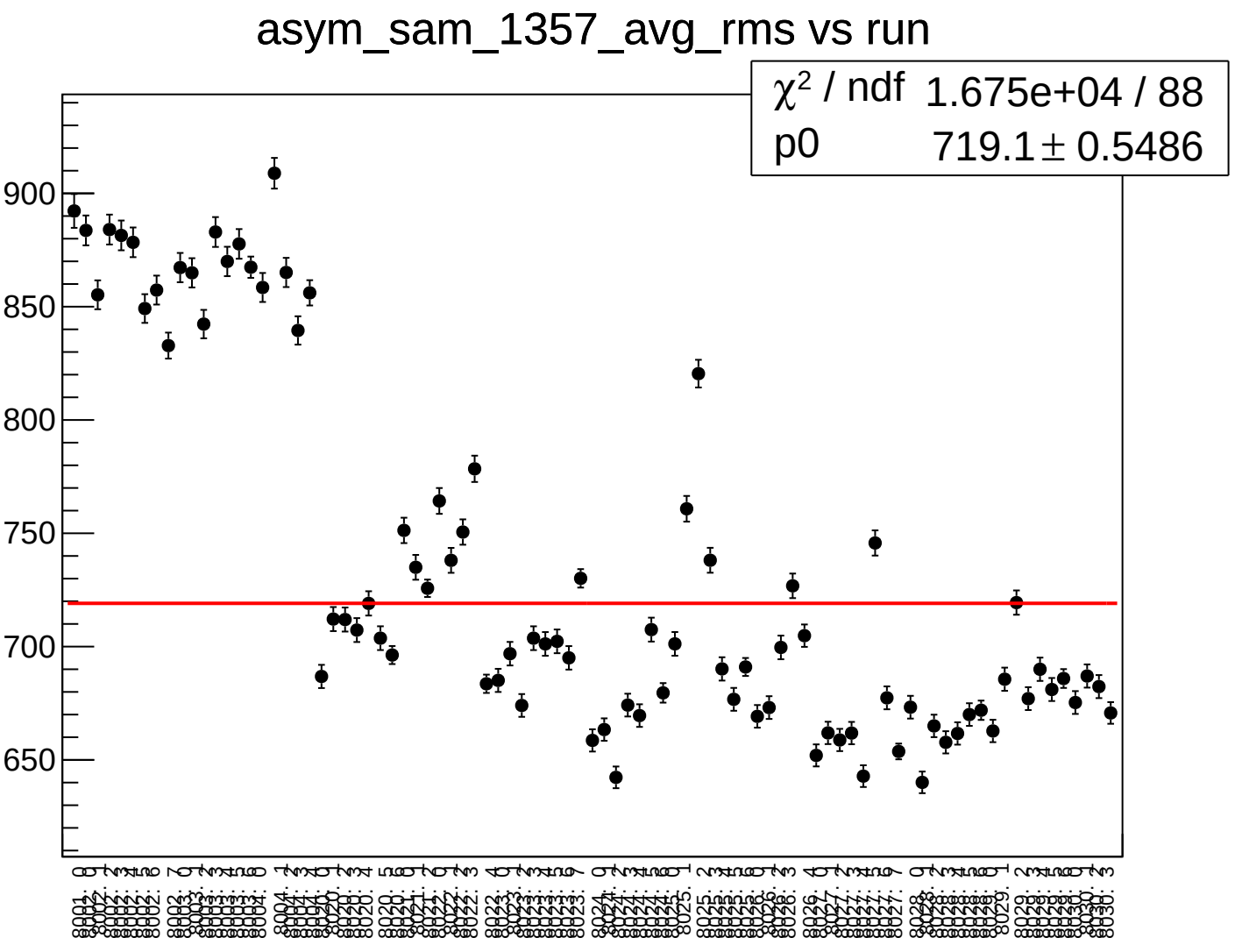

asym_sam_1357_avg_eigen_dit_correction_mean vs run
χ² / ndf 90.37 / 88
p0 377 ± 779.7
pull
Entries 89
Mean 221.9
Std Dev 0

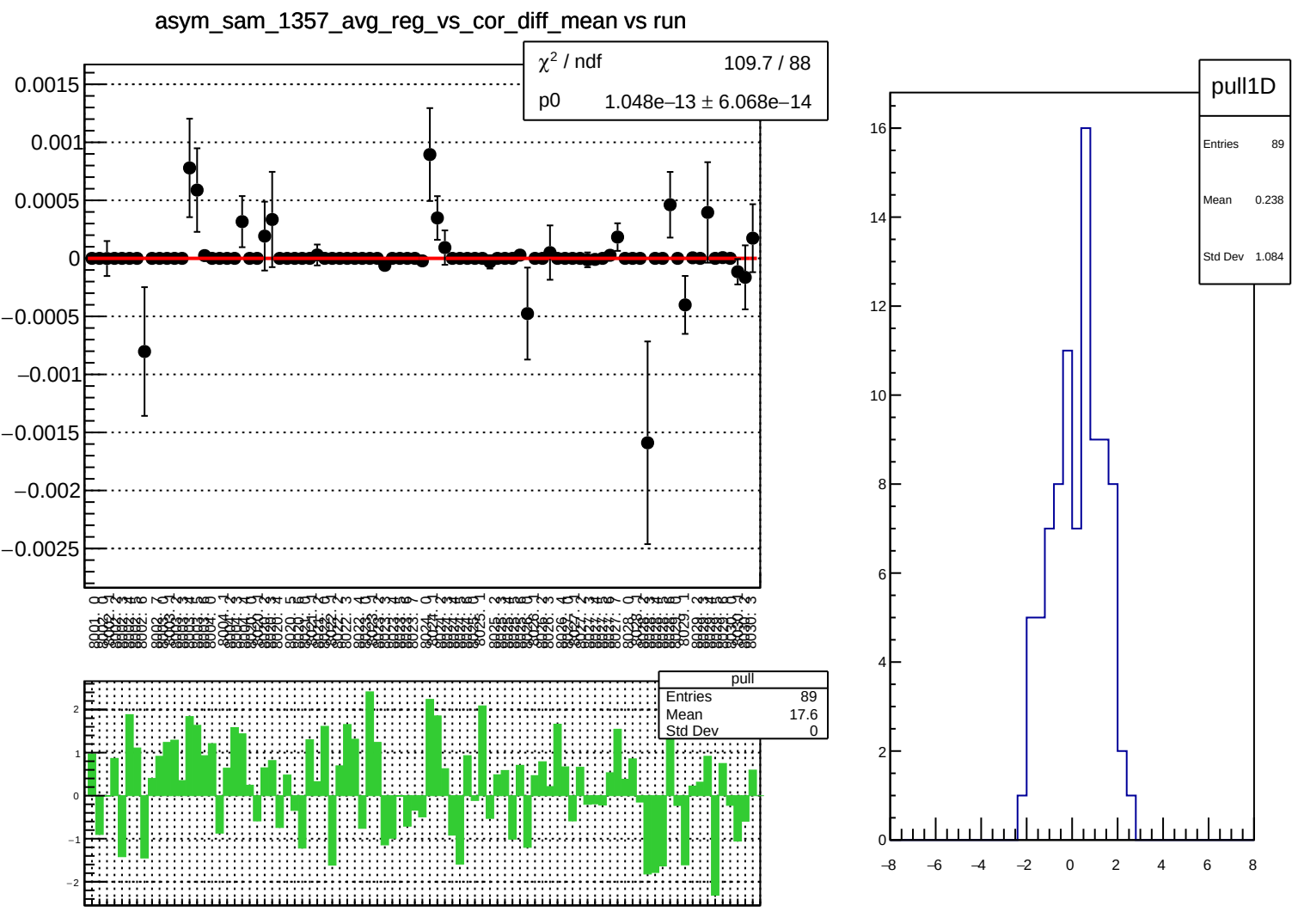

pull1D
Entries 89
Mean 0.01181
Std Dev 1.008

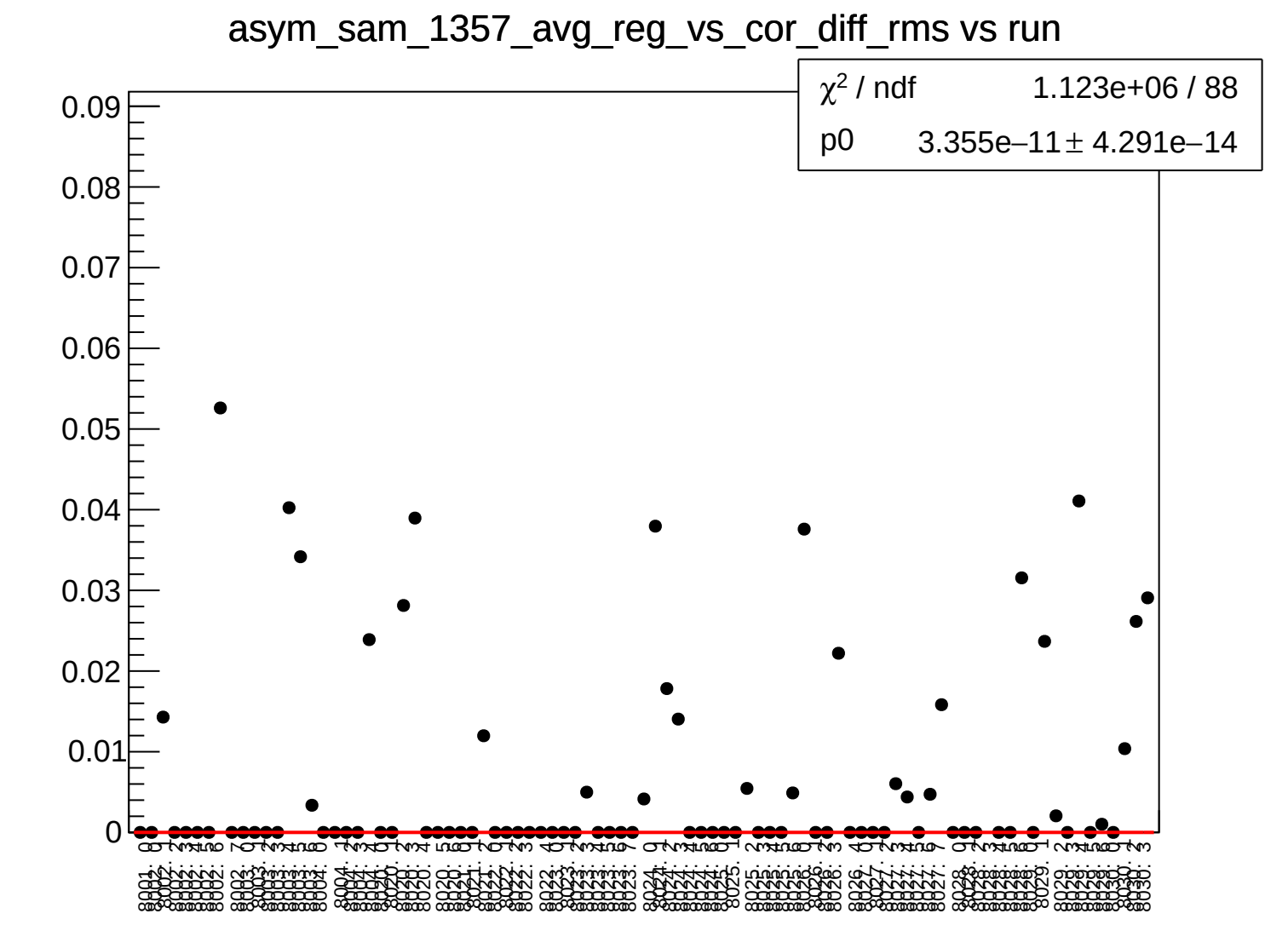

asym_sam_1357_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.652e+04 / 88
p0 718.5 ± 0.5513
1000
900
800
700
600

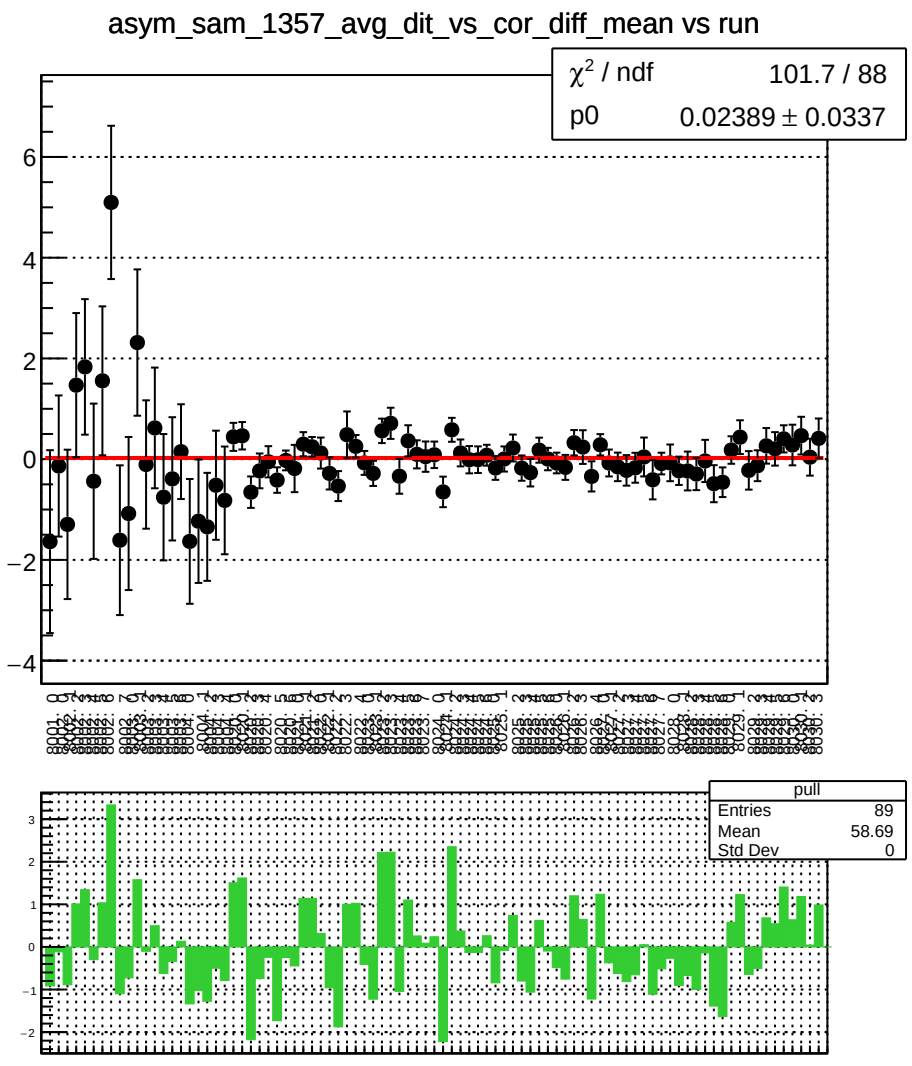

asym_sam_1357_avg_mean vs run
χ² / ndf 93.13 / 88
p0 −337.4 ± 775.9
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean 205.4
Std Dev 0
2
1
0
−1
−2
−3

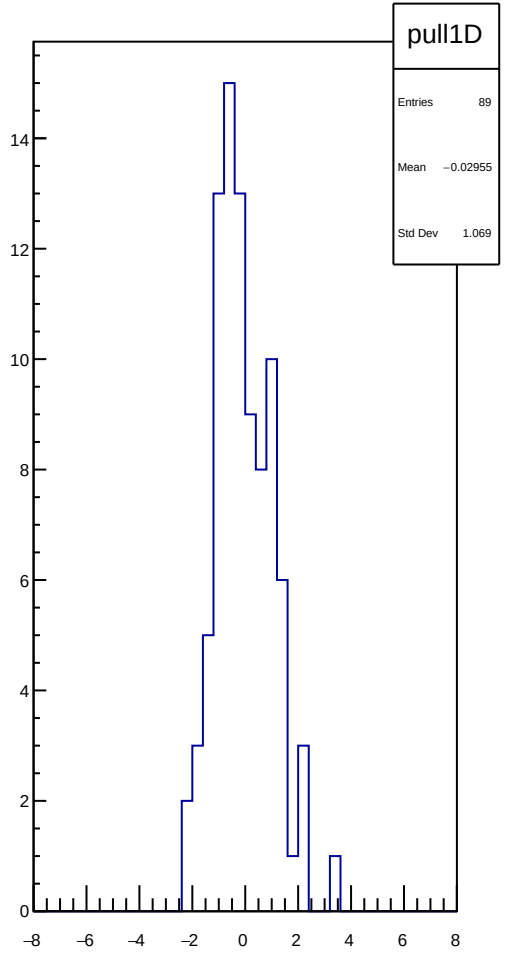

pull1D
Entries 89
Mean −0.01218
Std Dev 1.023
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

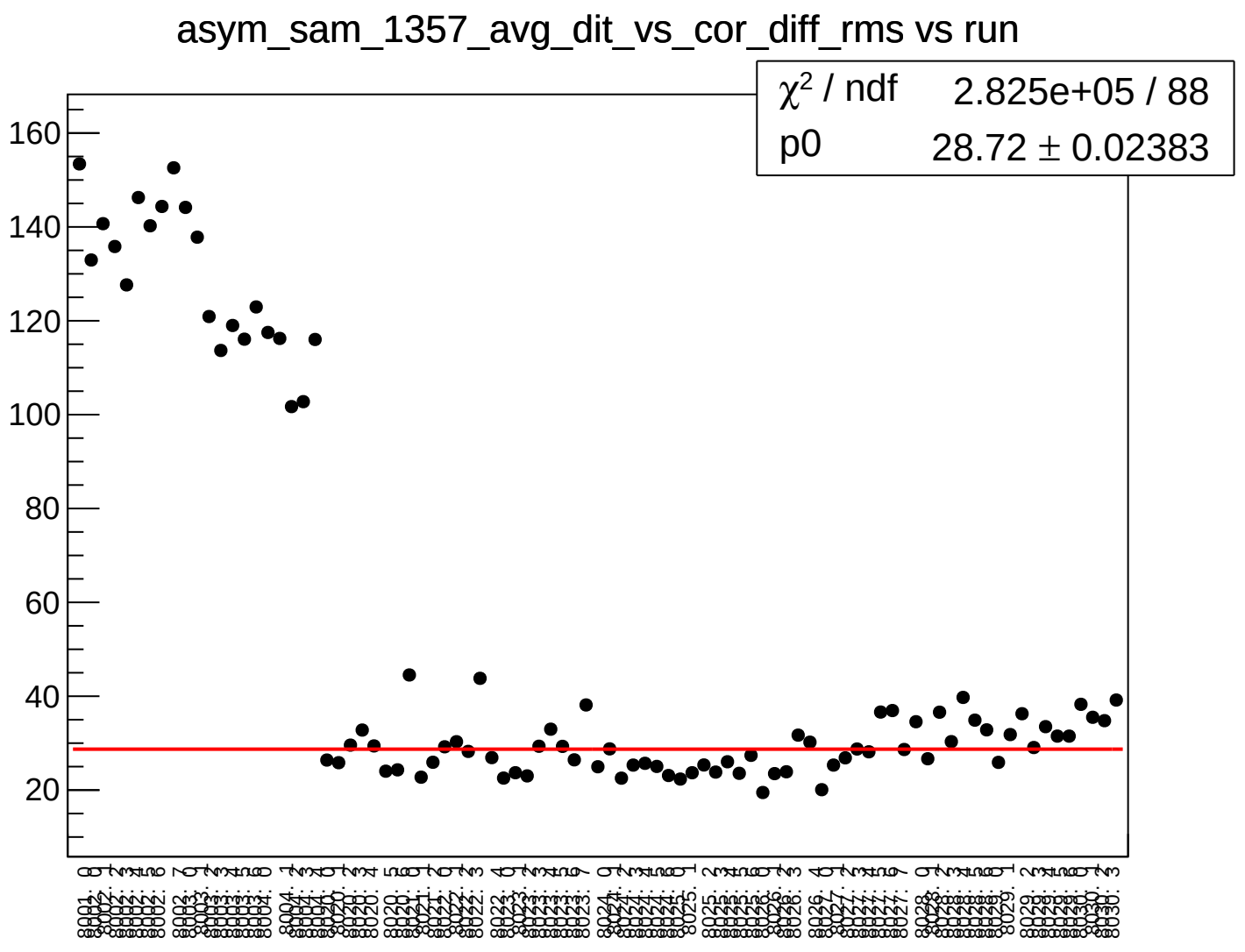

asym_sam_1357_avg_rms vs run
χ² / ndf 1.675e+04 / 88
p0 719.1 ± 0.5486
900
850
800
750
700
650

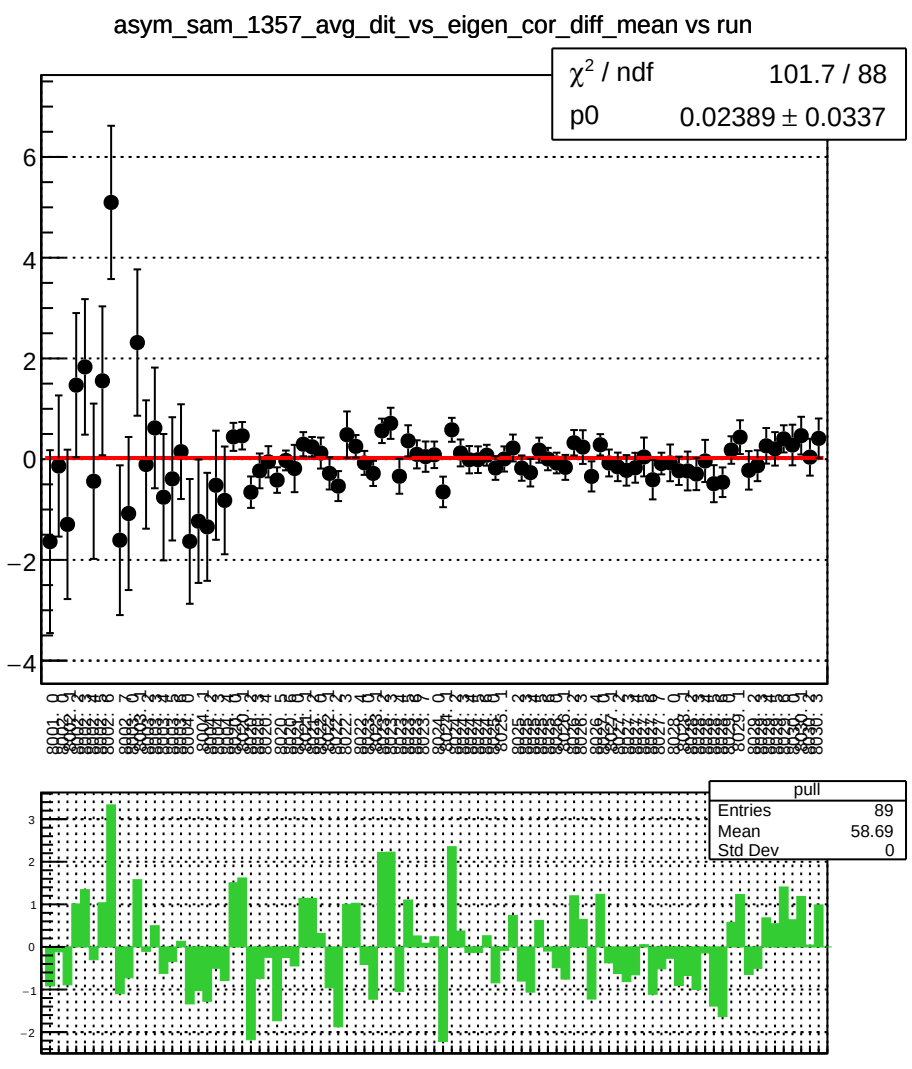

asym_sam_1357_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 109.7 / 88
p0 1.048e−13 ± 6.068e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
−0.0025
pull
Entries 89
Mean 17.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.238
Std Dev 1.084
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

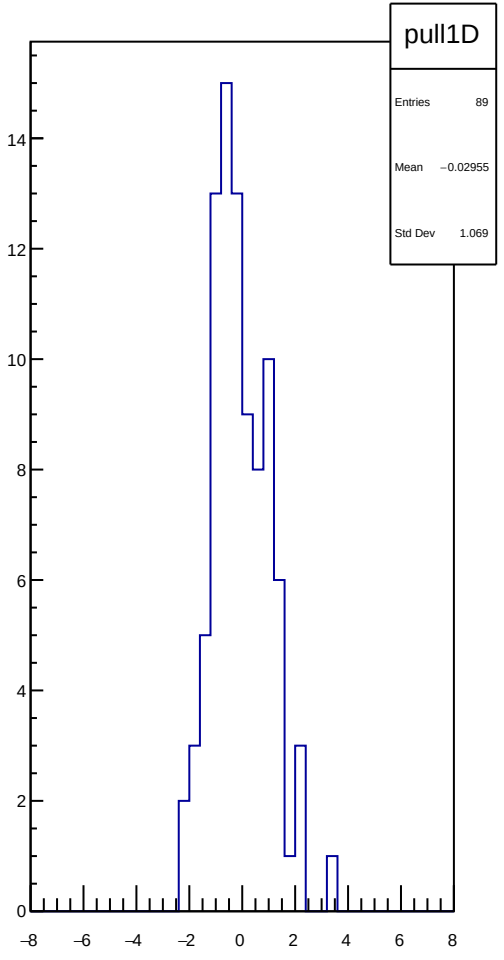

asym_sam_1357_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.123e+06 / 88
p0 3.355e−11 ± 4.291e−14
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

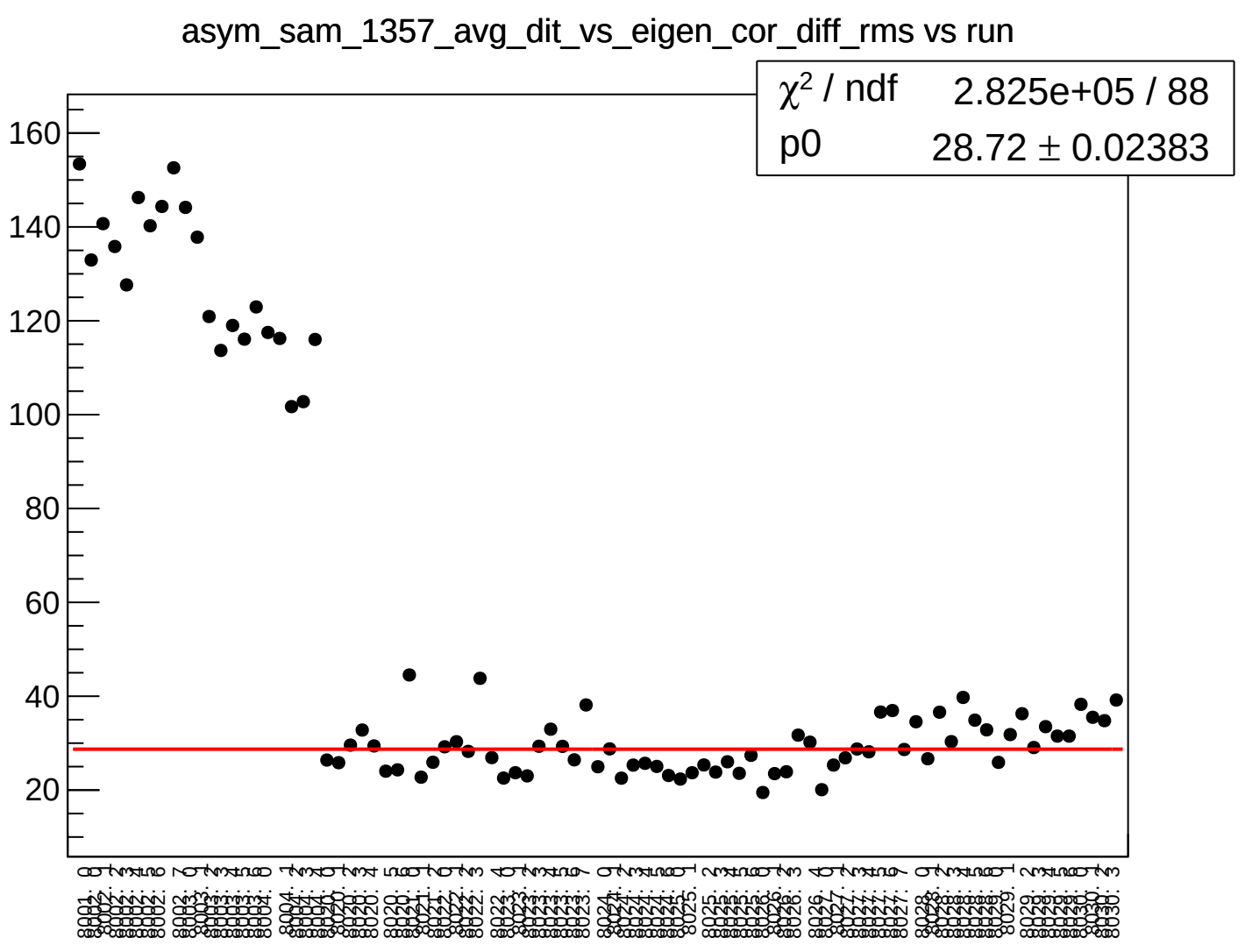

asym_sam_1357_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 101.7 / 88
p0 0.02389 ± 0.0337
pull
Entries 89
Mean 58.69
Std Dev 0

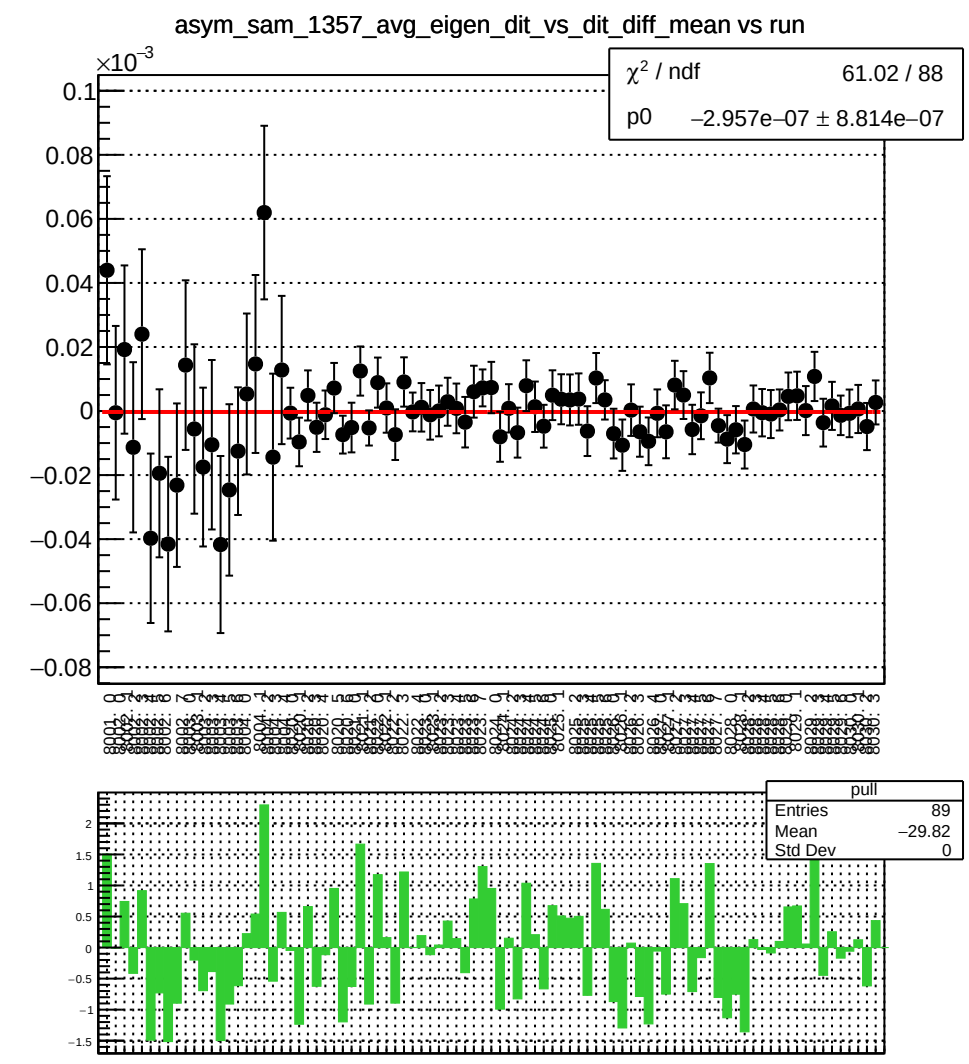

pull1D
Entries 89
Mean −0.02955
Std Dev 1.069

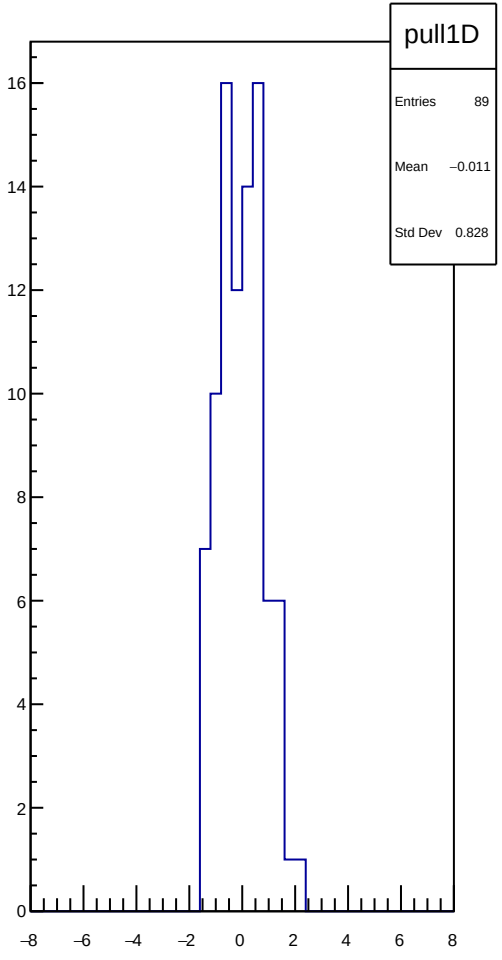

asym_sam_1357_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.825e+05 / 88
p0 28.72 ± 0.02383
160
140
120
100
80
60
40
20

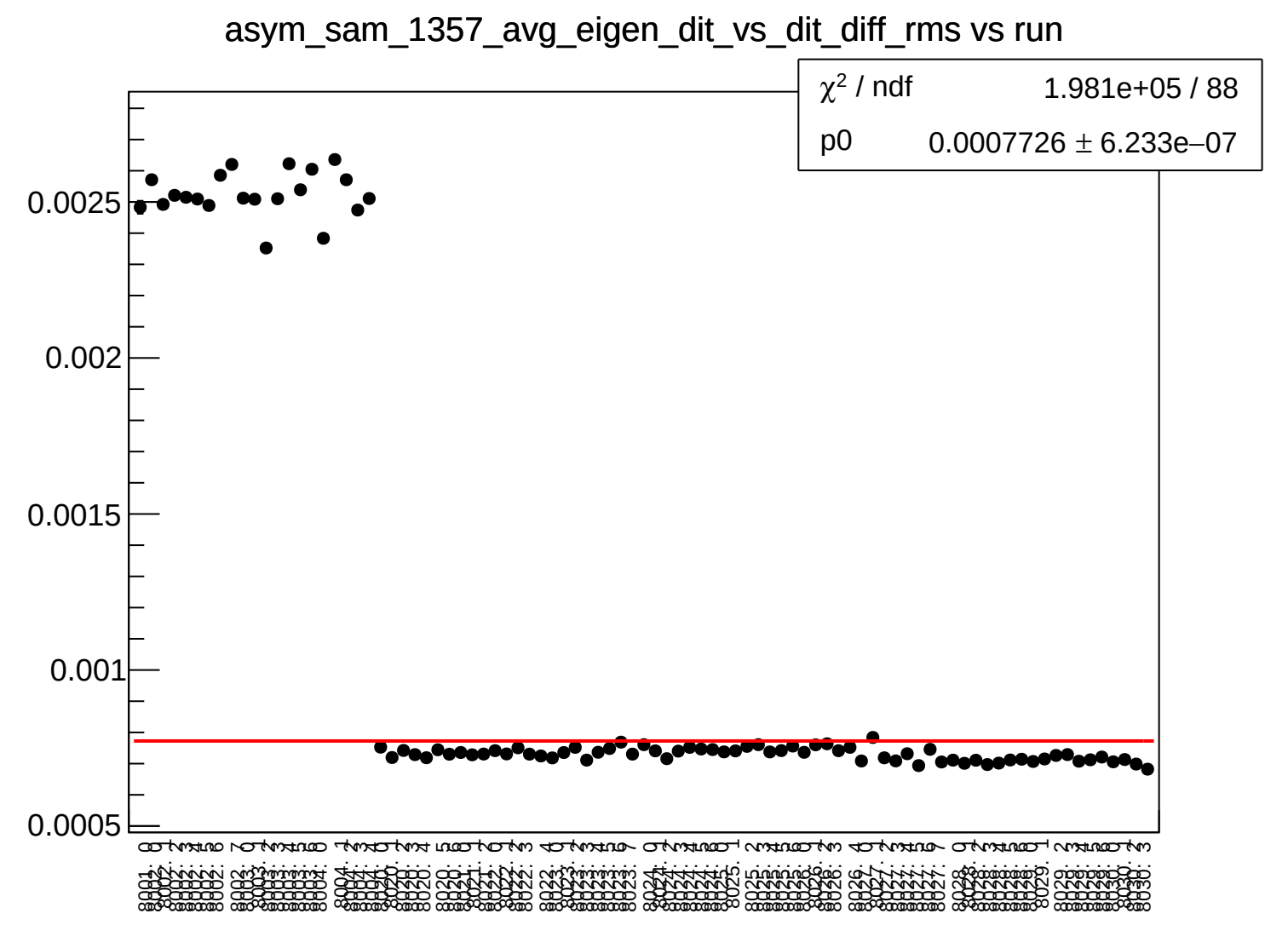

asym_sam_1357_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.7 / 88
p0 0.02389 ± 0.0337
pull
Entries 89
Mean 58.69
Std Dev 0

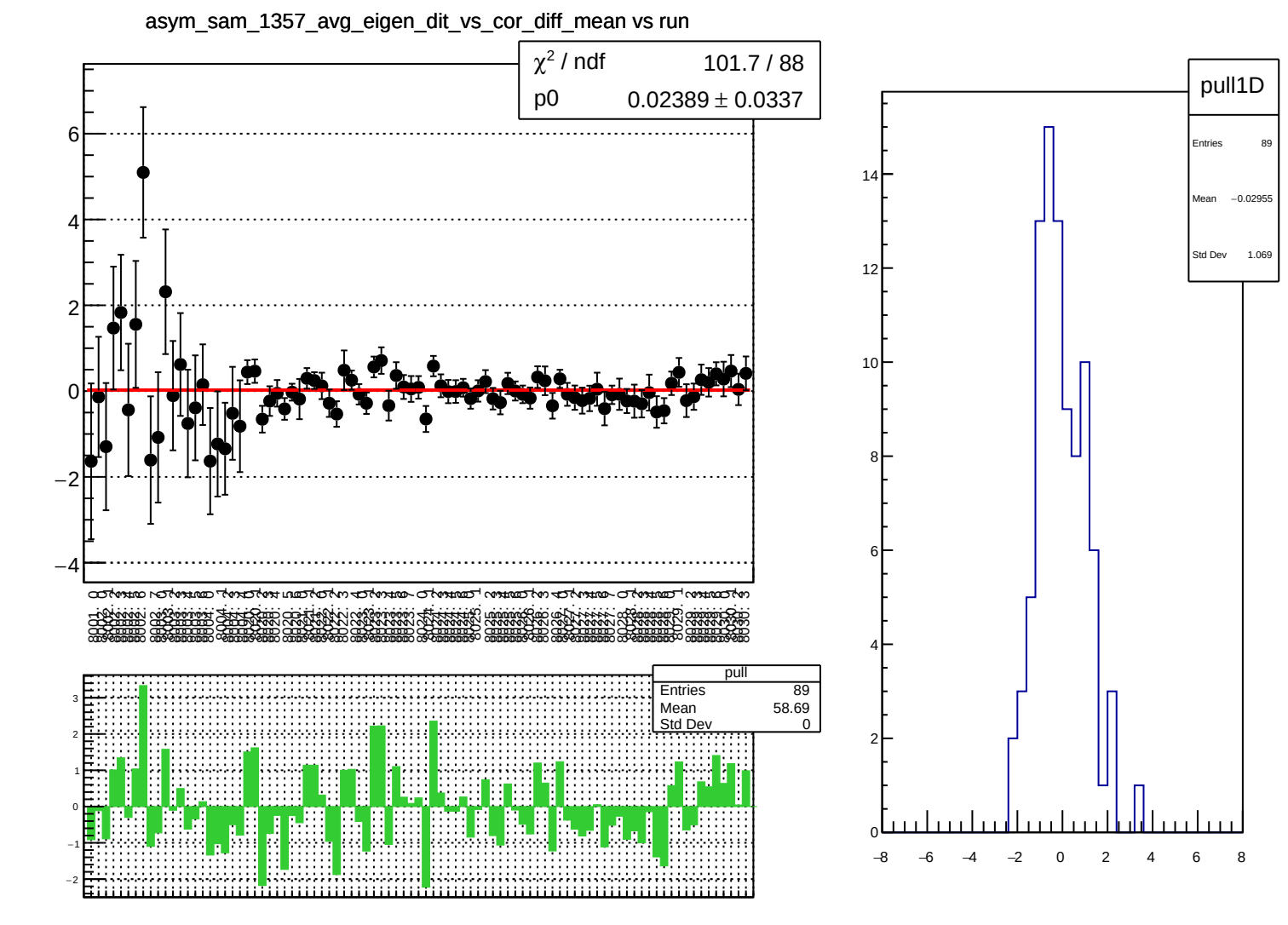

pull1D
Entries 89
Mean −0.02955
Std Dev 1.069

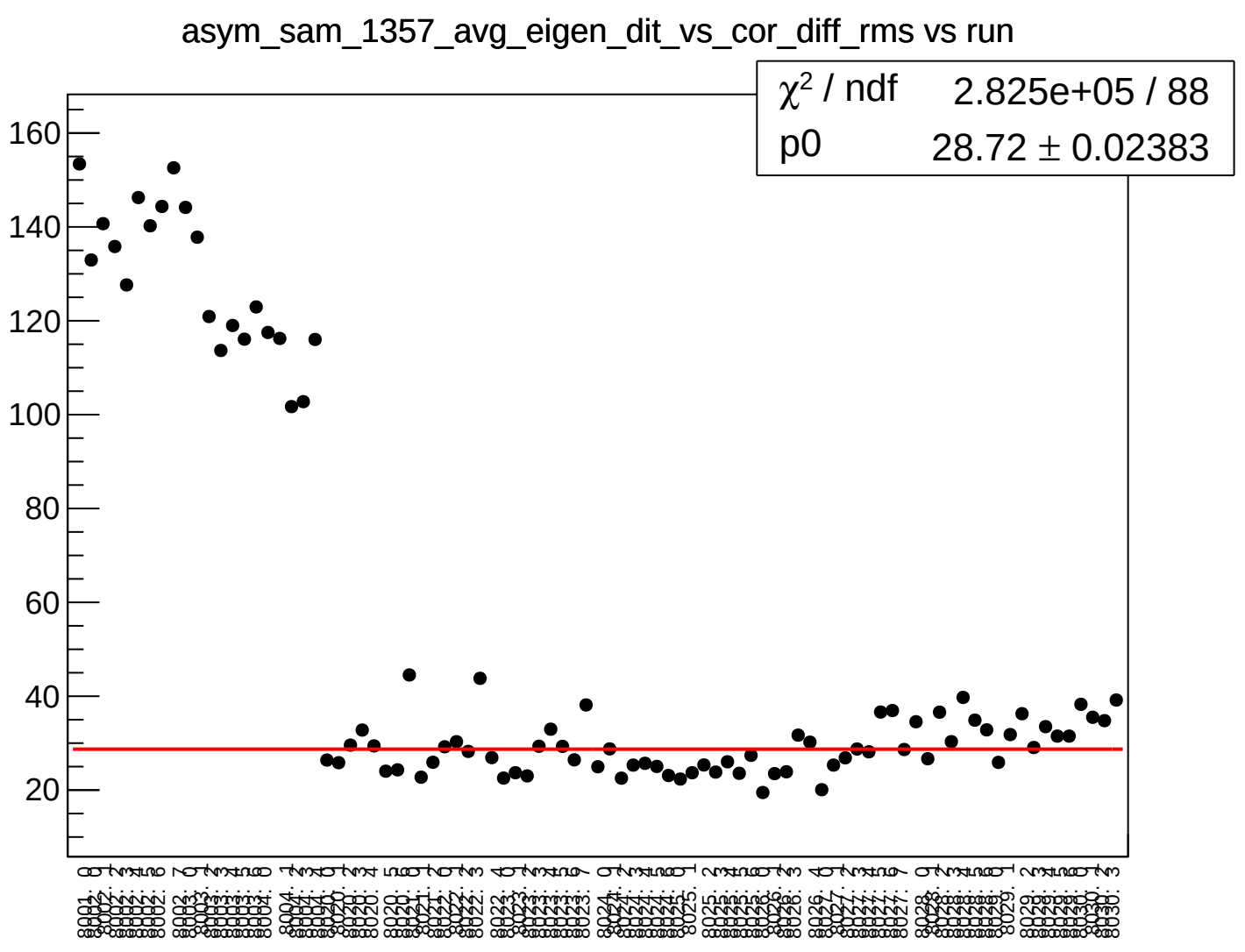

asym_sam_1357_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.825e+05 / 88
p0 28.72 ± 0.02383
160
140
120
100
80
60
40
20

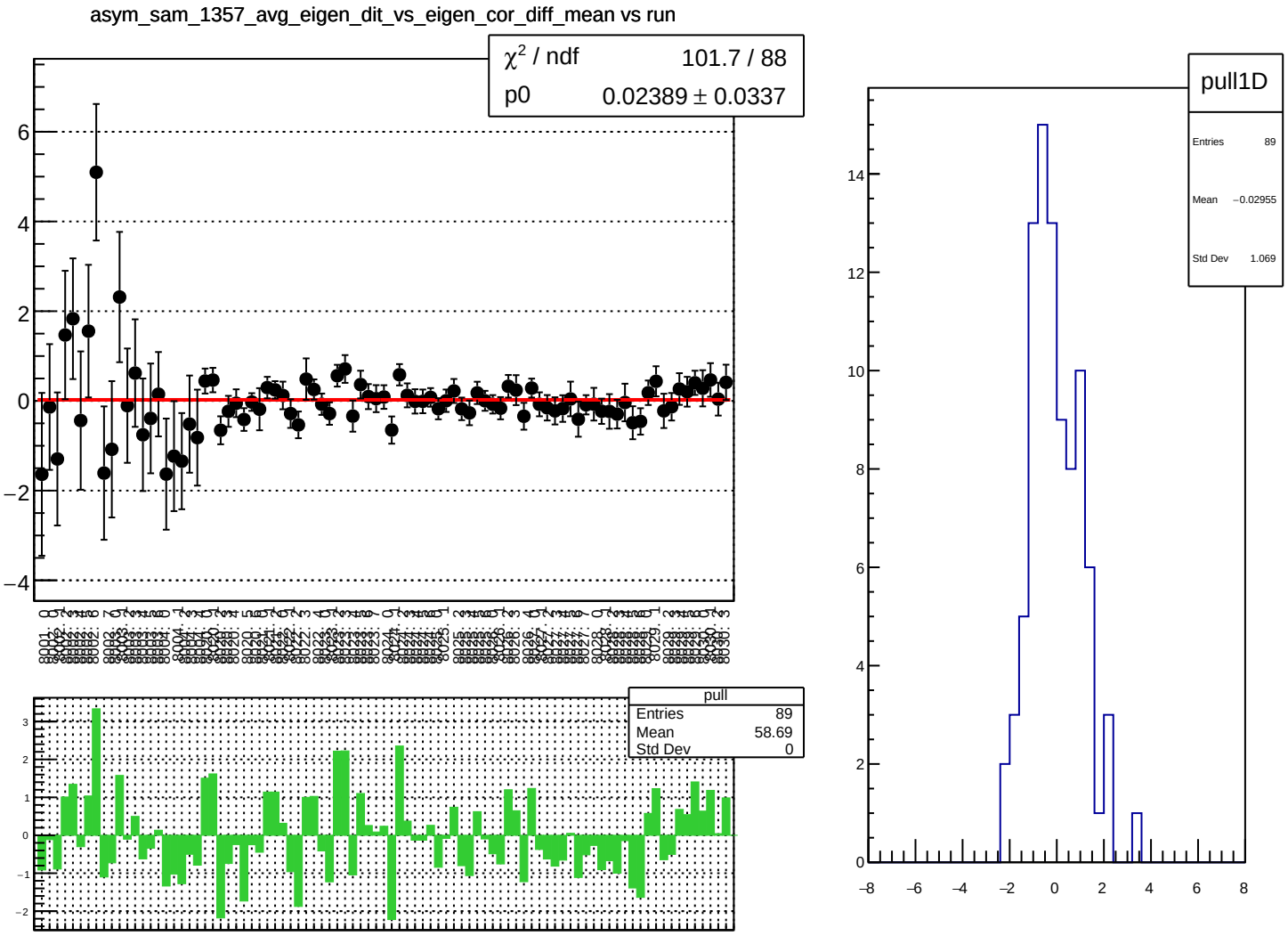

asym_sam_1357_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 61.02 / 88
p0 −2.957e−07 ± 8.814e−07
pull
Entries 89
Mean −29.82
Std Dev 0

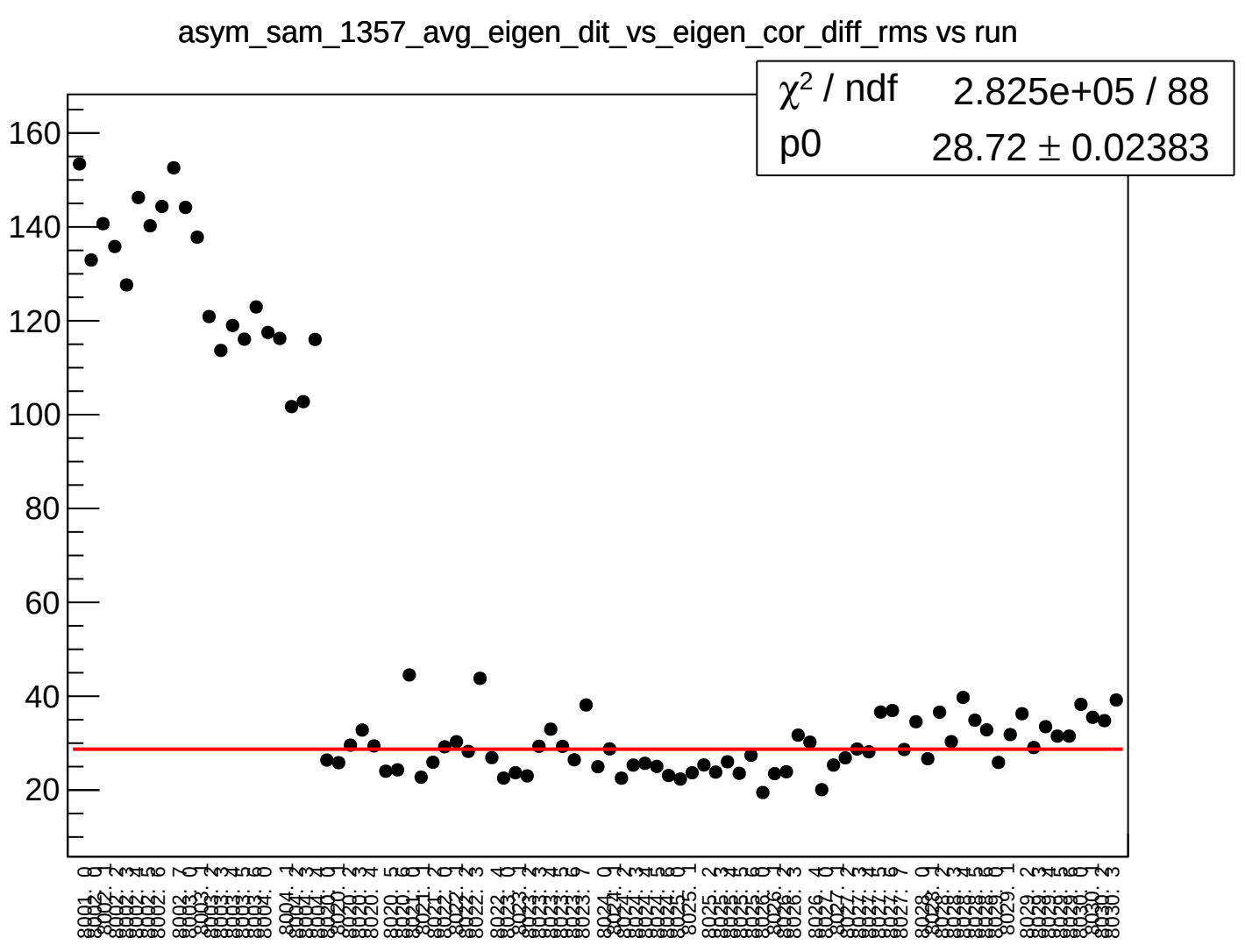

pull1D
Entries 89
Mean −0.011
Std Dev 0.828

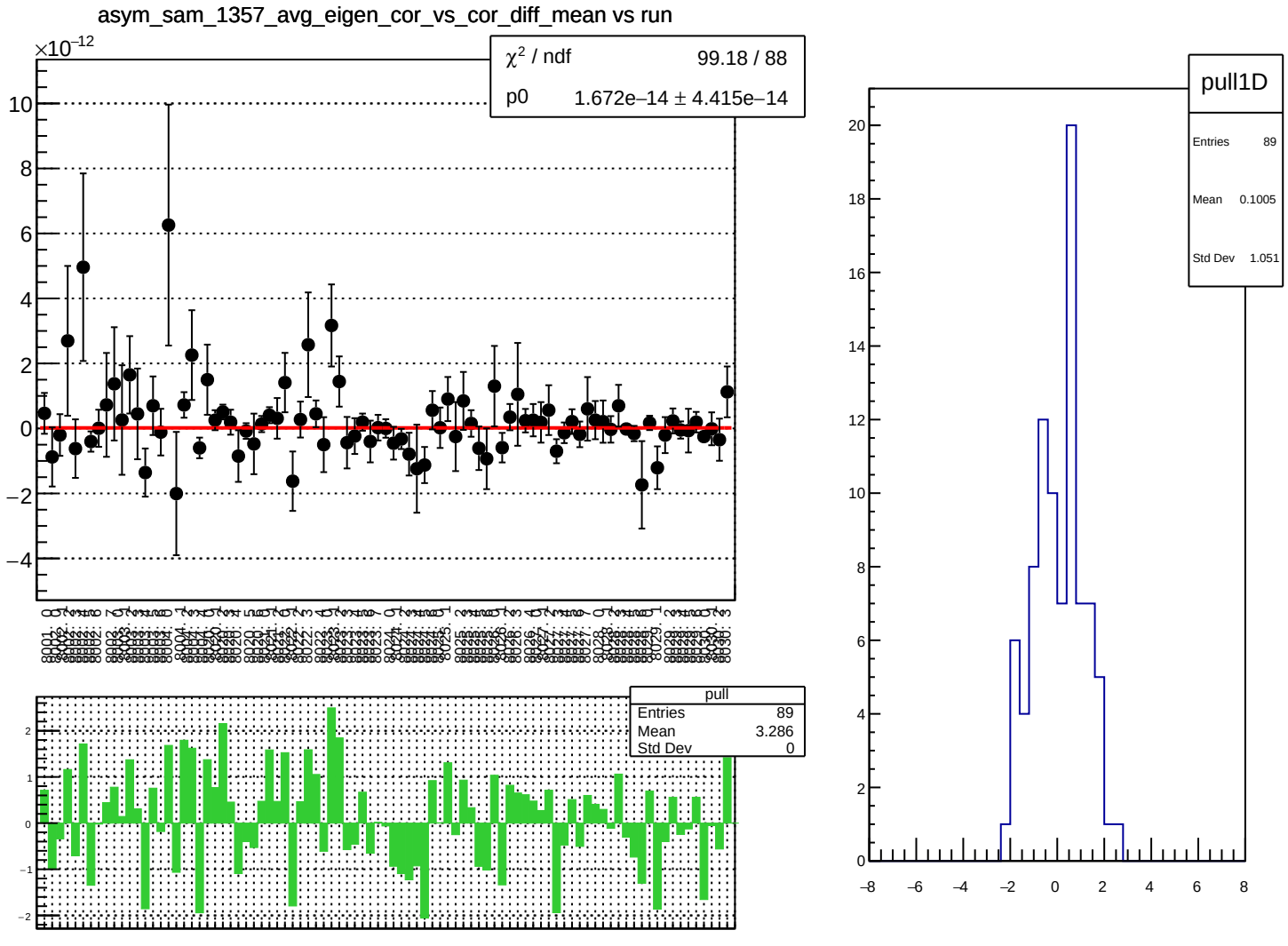

asym_sam_1357_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.981e+05 / 88
p0 0.0007726 ± 6.233e−07
0.0025
0.002
0.0015
0.001
0.0005

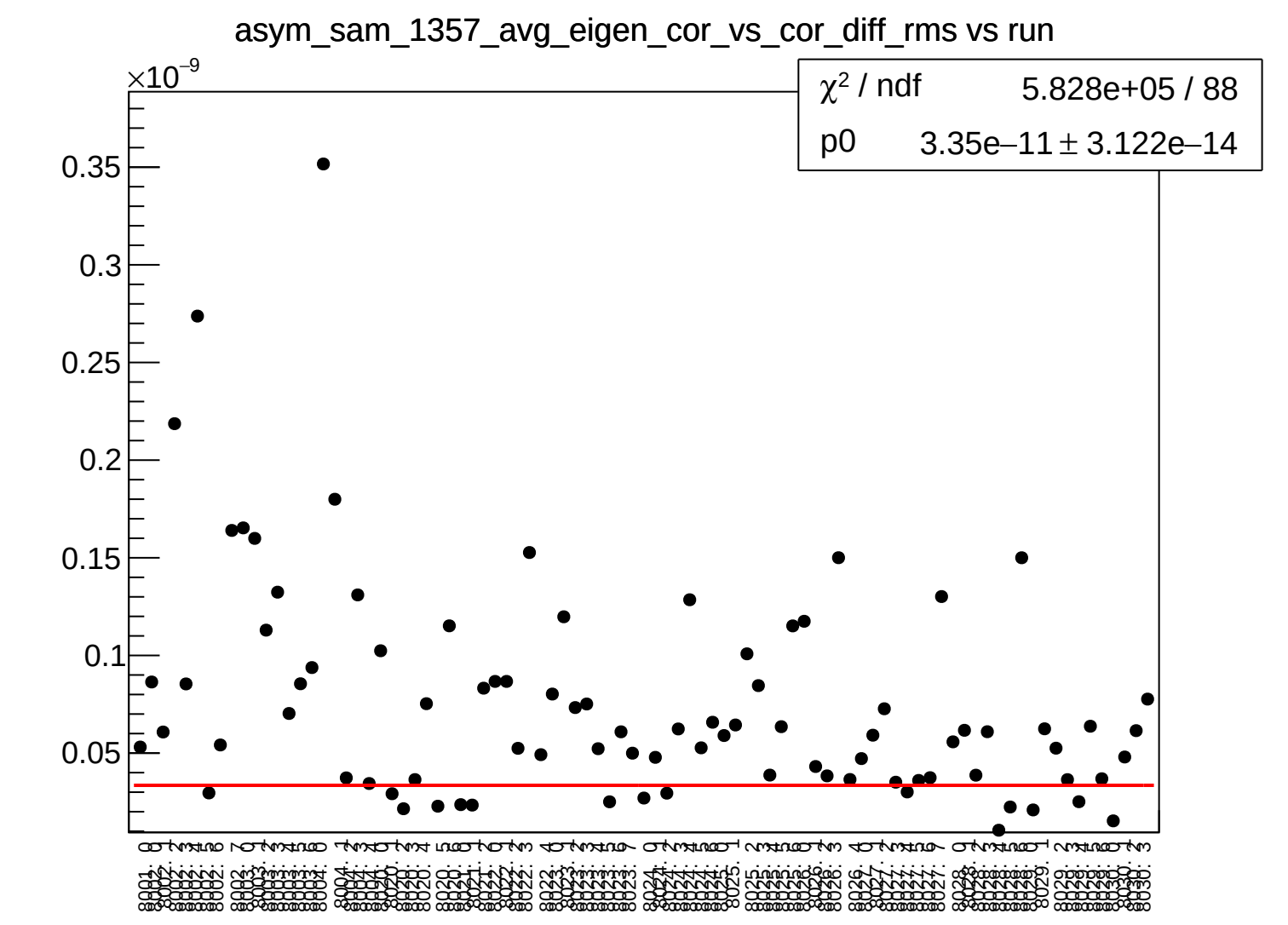

asym_sam_1357_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 101.7 / 88
p0 0.02389 ± 0.0337
pull
Entries 89
Mean 58.69
Std Dev 0
pull1D
Entries 89
Mean −0.02955
Std Dev 1.069

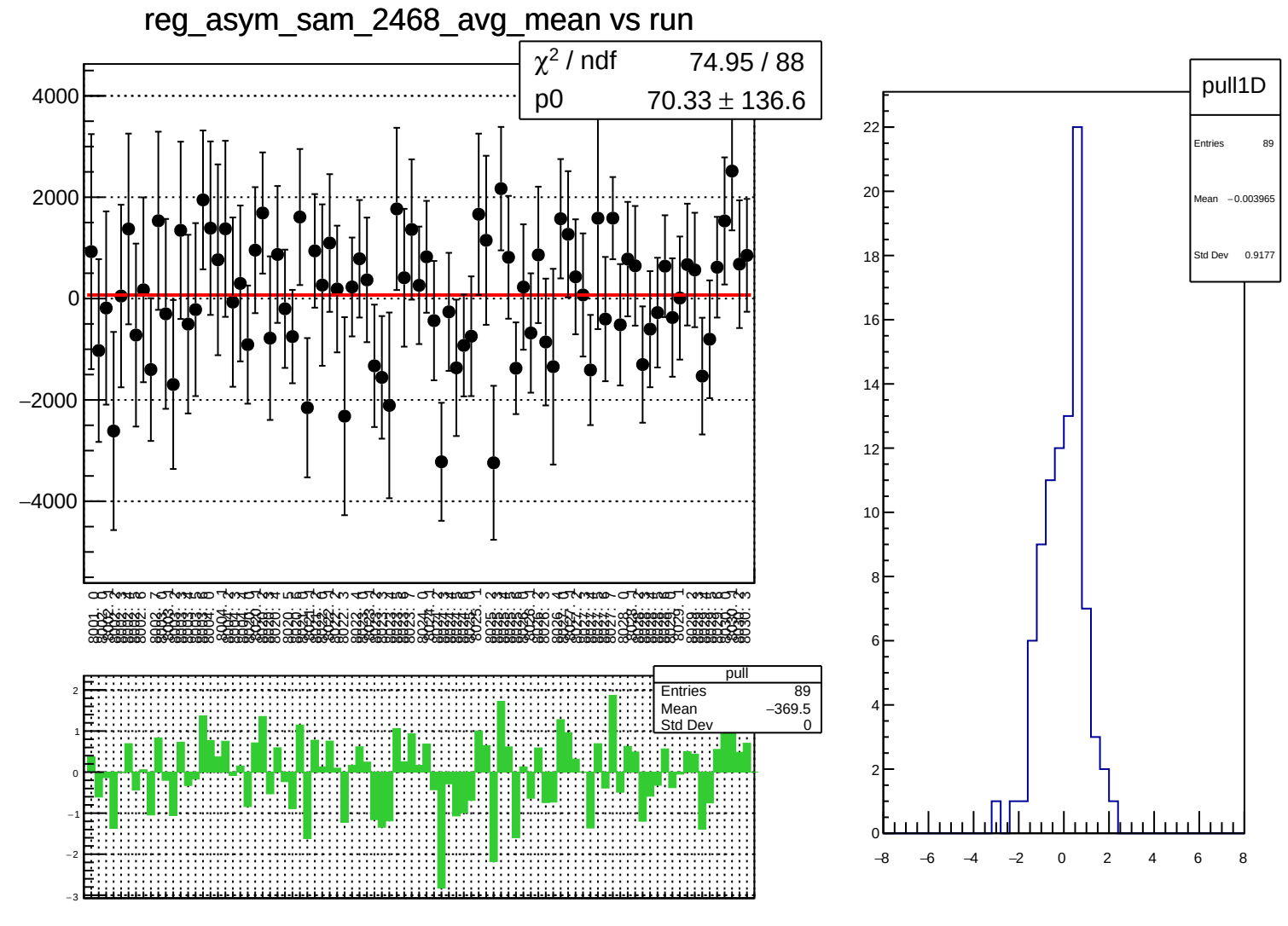

asym_sam_1357_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.825e+05 / 88
p0 28.72 ± 0.02383
160
140
120
100
80
60
40
20

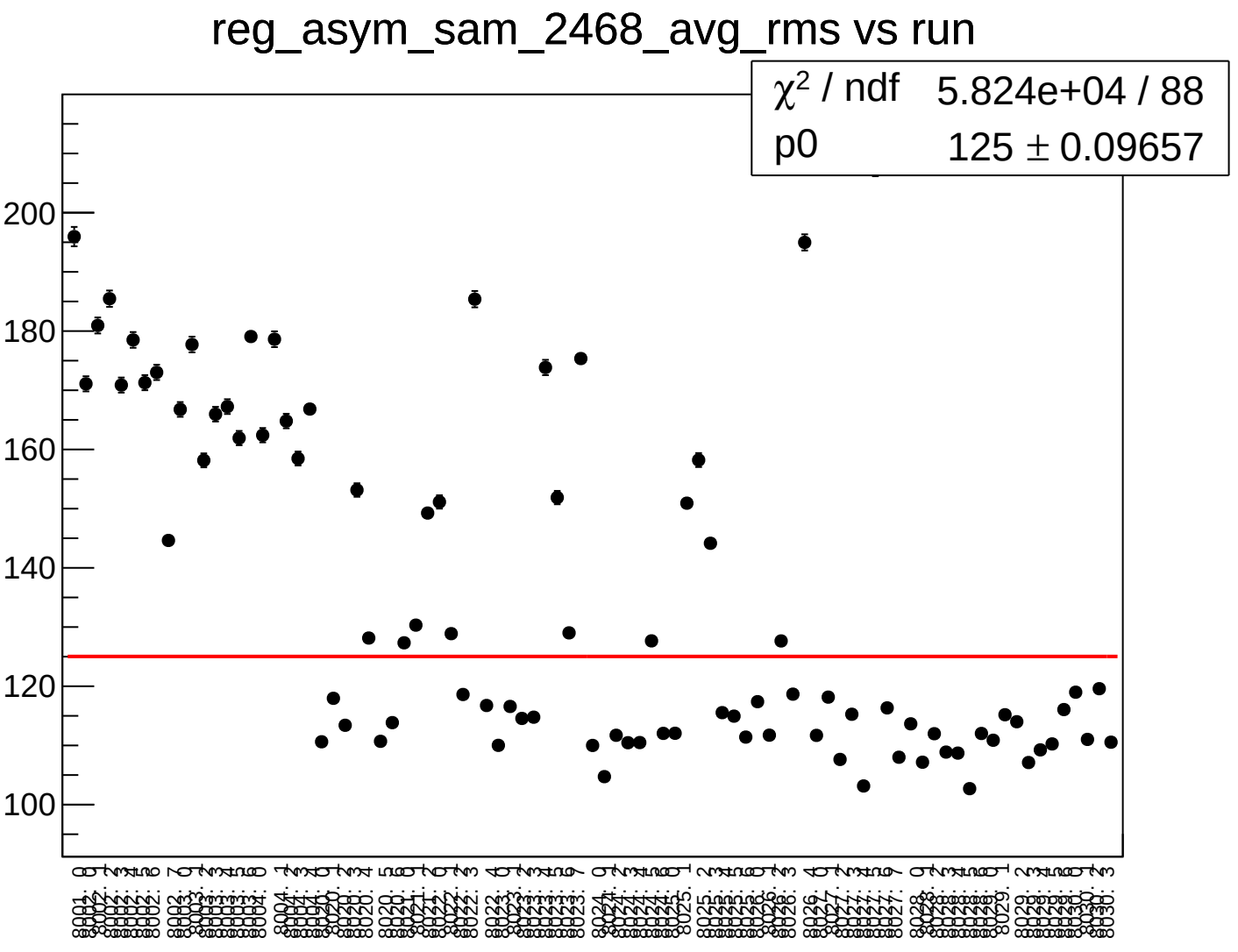

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.7 / 88
p0 0.02389 ± 0.0337
pull
Entries 89
Mean 58.69
Std Dev 0
pull1D
Entries 89
Mean −0.02955
Std Dev 1.069

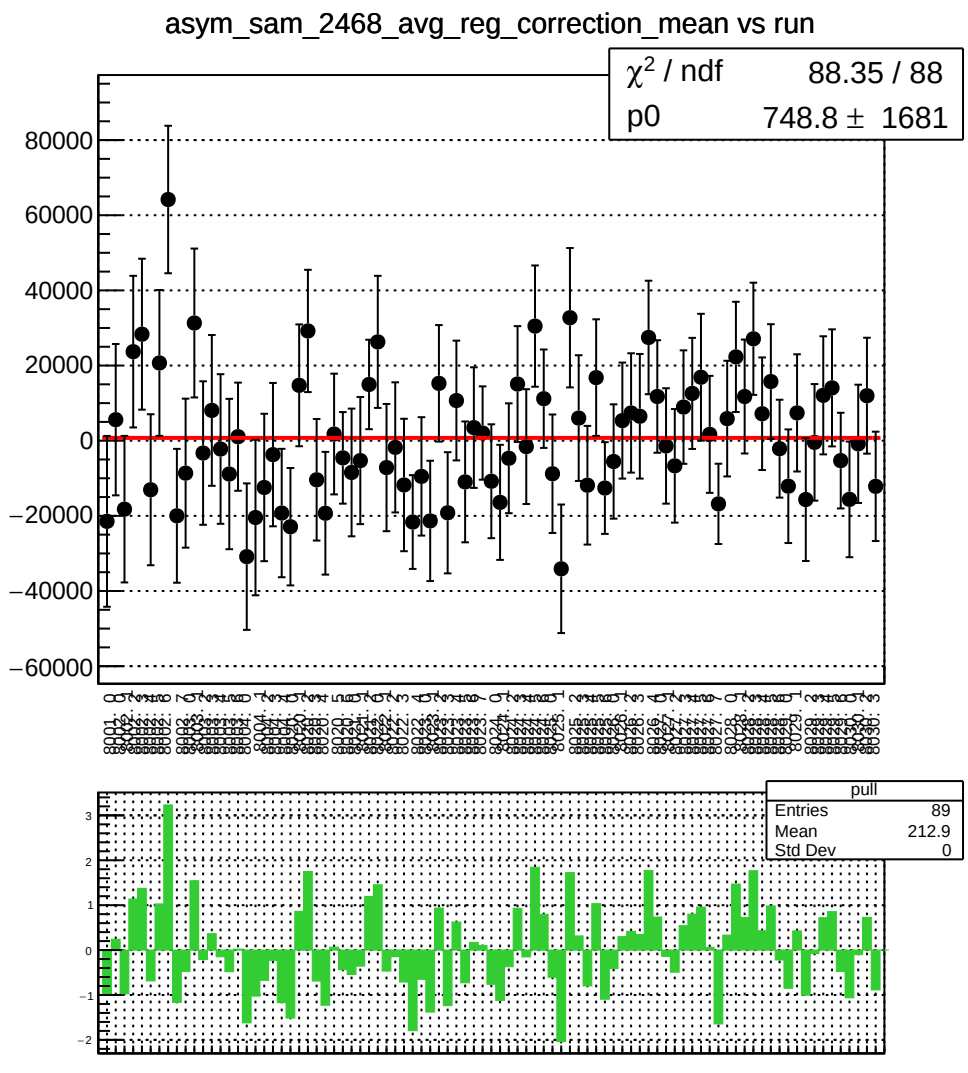

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.825e+05 / 88
p0 28.72 ± 0.02383
160
140
120
100
80
60
40
20

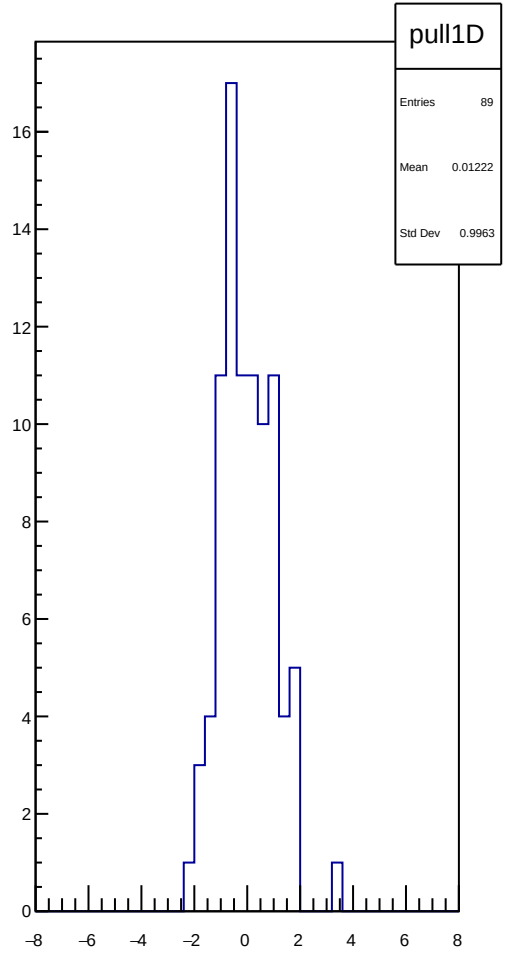

asym_sam_1357_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.18 / 88
p0 1.672e−14 ± 4.415e−14
pull
Entries 89
Mean 3.286
Std Dev 0
pull1D
Entries 89
Mean 0.1005
Std Dev 1.051

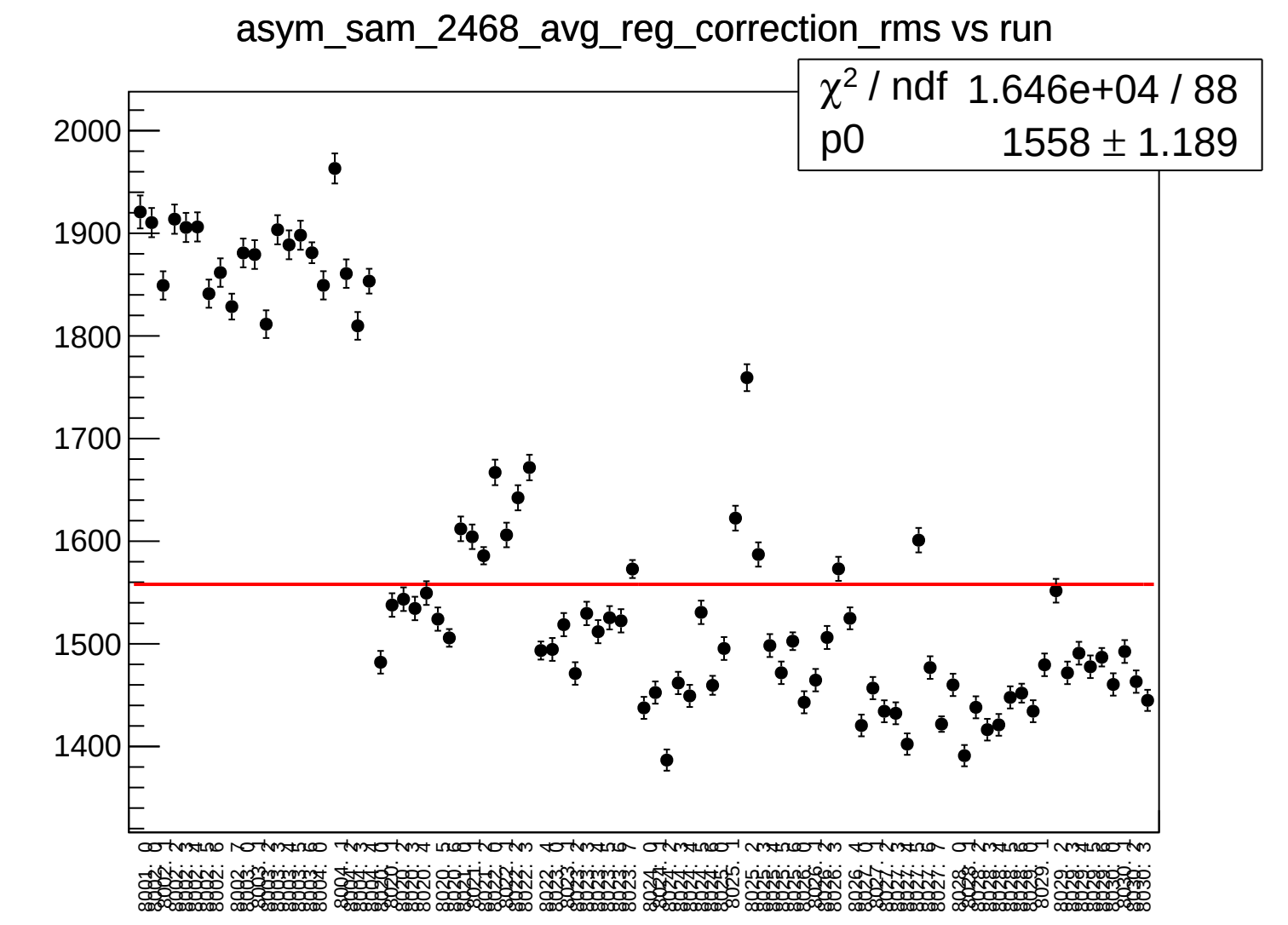

asym_sam_1357_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.828e+05 / 88
p0 3.35e−11 ± 3.122e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

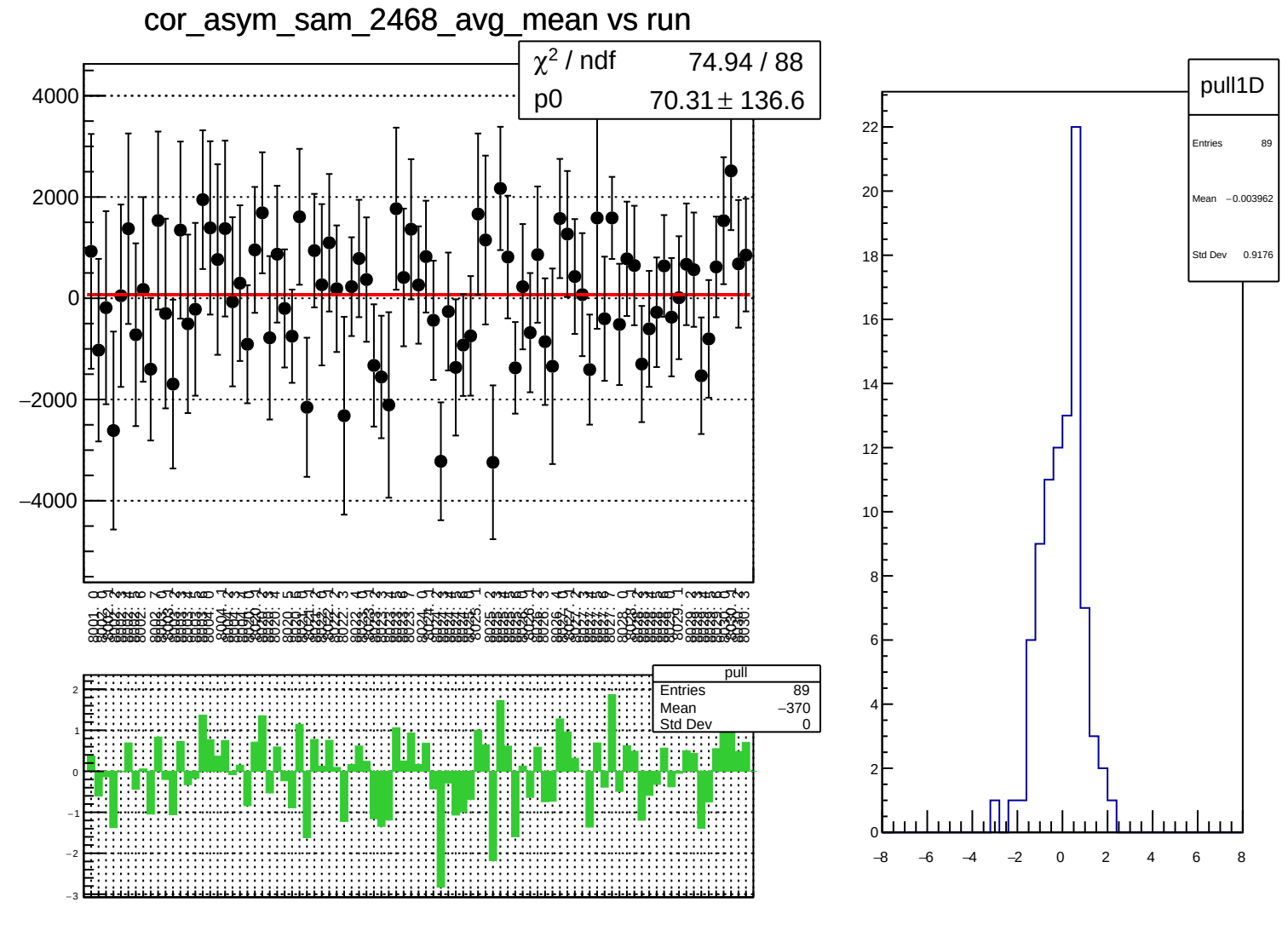

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 74.95 / 88
p0 70.33 ± 136.6
4000
2000
0
−2000
−4000
pull
Entries 89
Mean −369.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.003965
Std Dev 0.9177
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

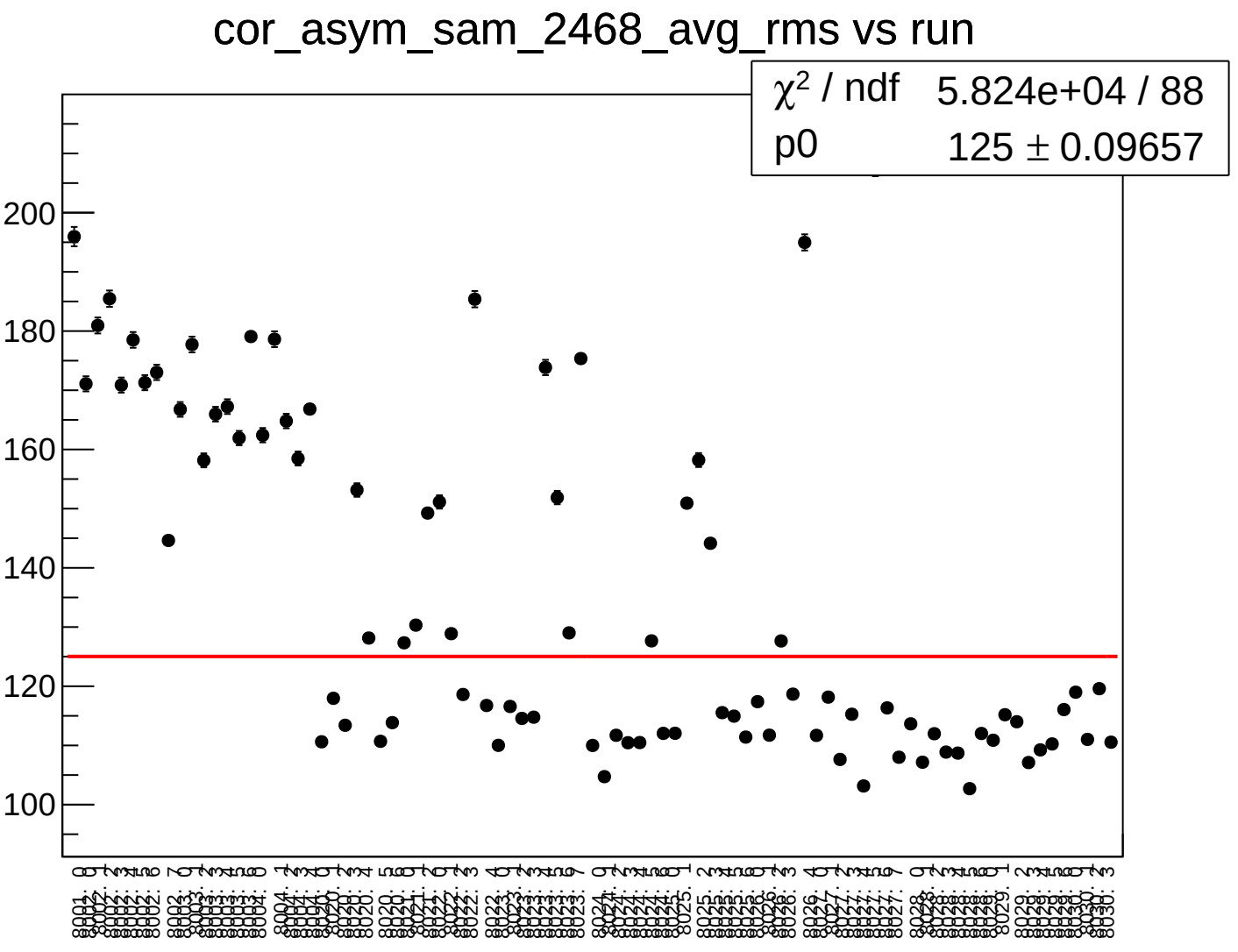

reg_asym_sam_2468_avg_rms vs run
χ^2 / ndf 5.824e+04 / 88
p0 125 ± 0.09657
200
180
160
140
120
100

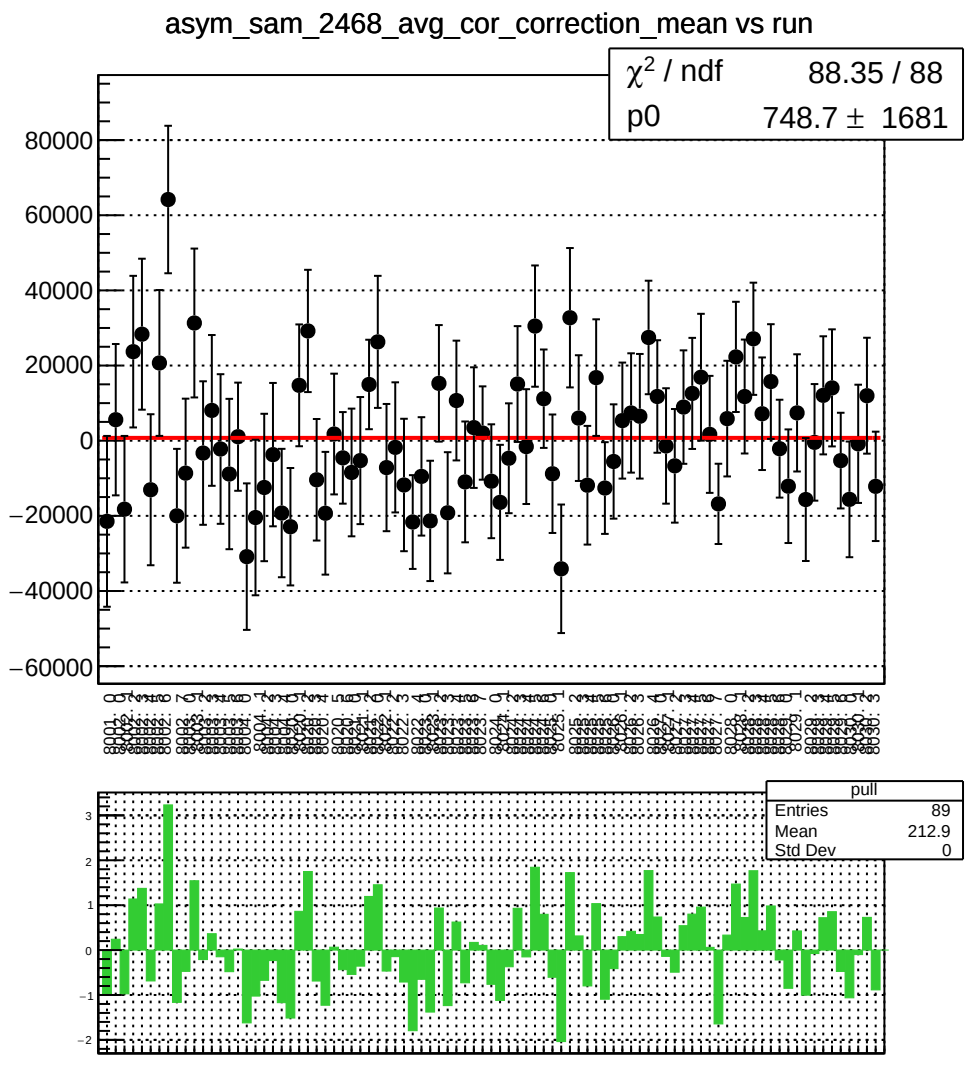

asym_sam_2468_avg_reg_correction_mean vs run
χ² / ndf 88.35 / 88
p0 748.8 ± 1681
pull
Entries 89
Mean 212.9
Std Dev 0

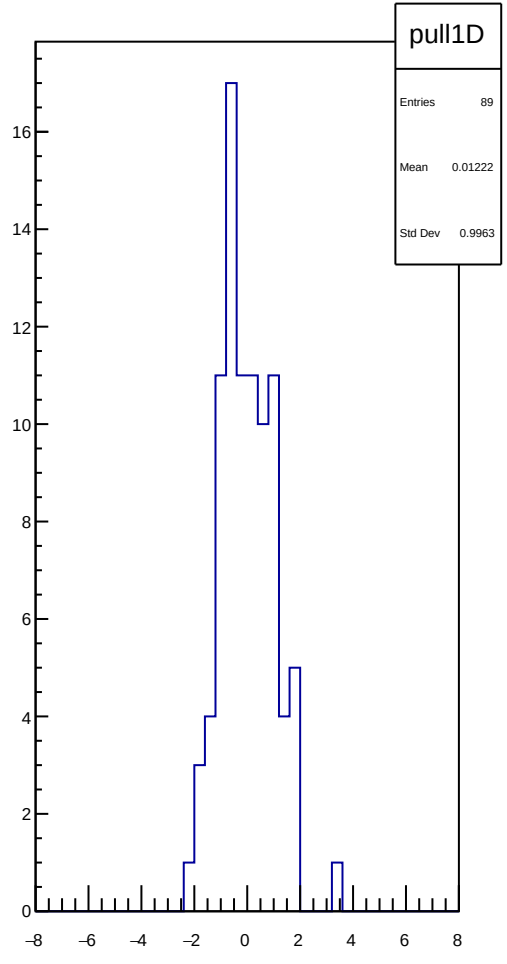

pull1D
Entries 89
Mean 0.01222
Std Dev 0.9963

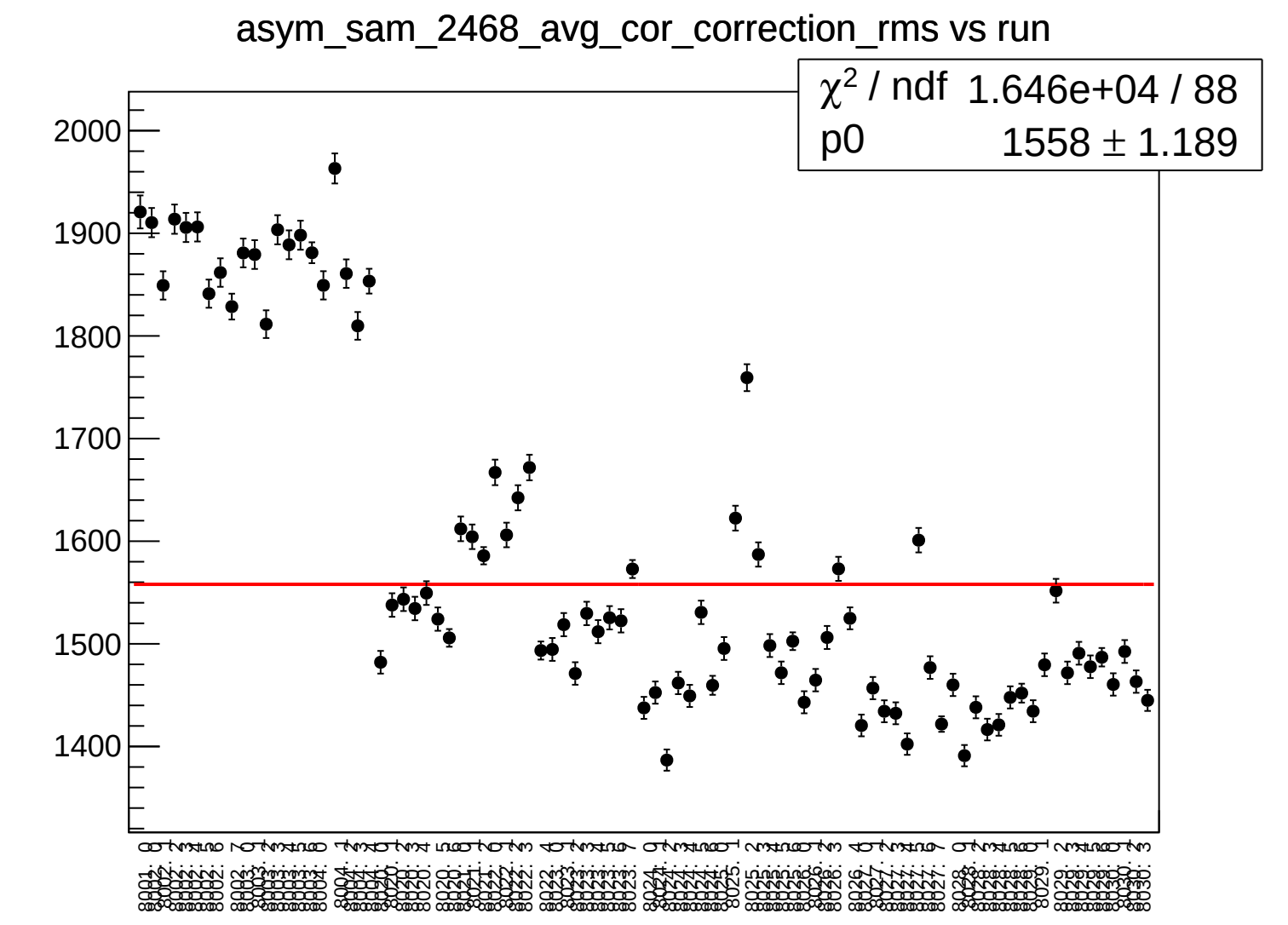

asym_sam_2468_avg_reg_correction_rms vs run
χ² / ndf 1.646e+04 / 88
p0 1558 ± 1.189
2000
1900
1800
1700
1600
1500
1400

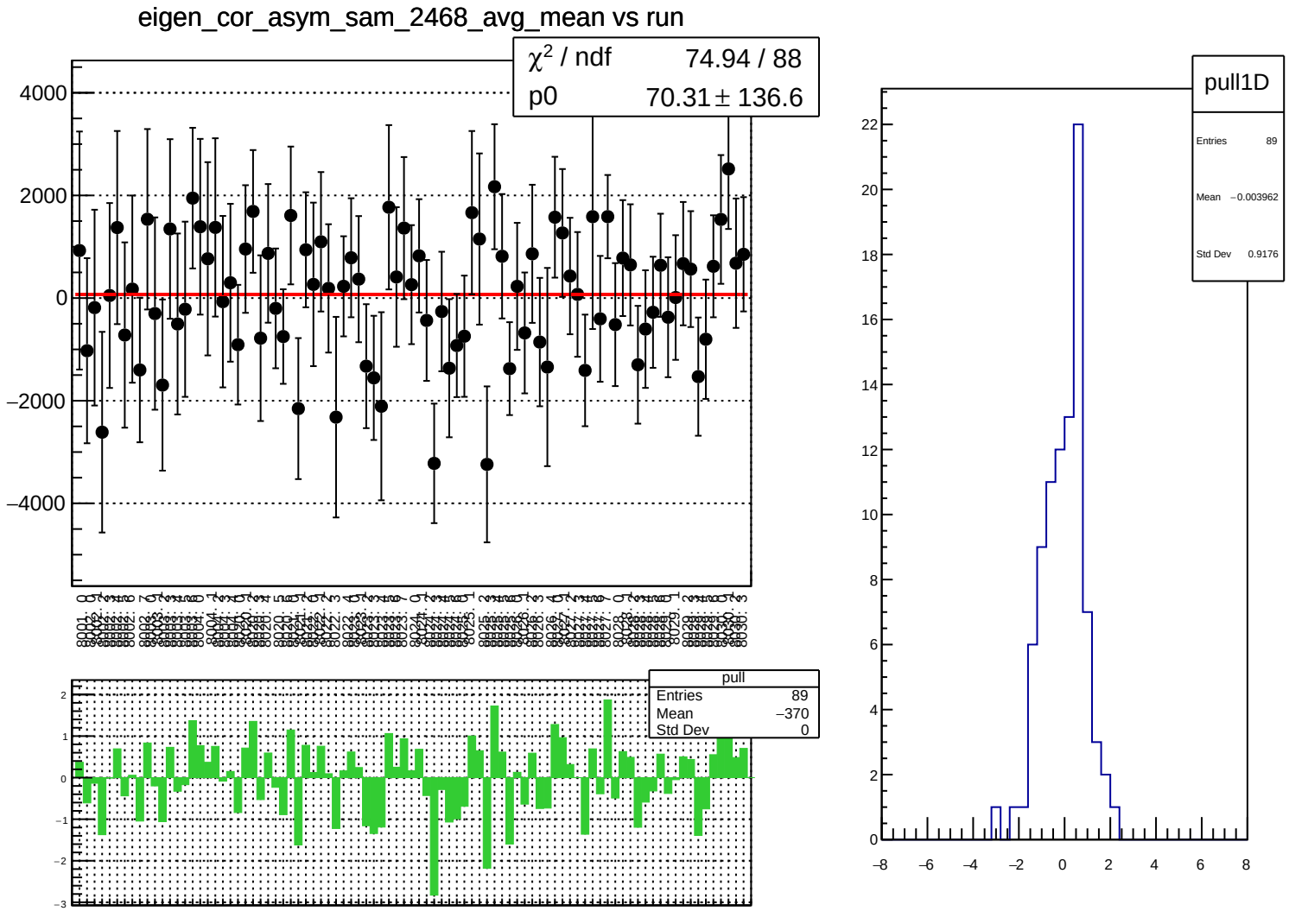

cor_asym_sam_2468_avg_mean vs run
χ² / ndf 74.94 / 88
p0 70.31 ± 136.6
4000
2000
0
−2000
−4000
pull
Entries 89
Mean −370
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.003962
Std Dev 0.9176
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

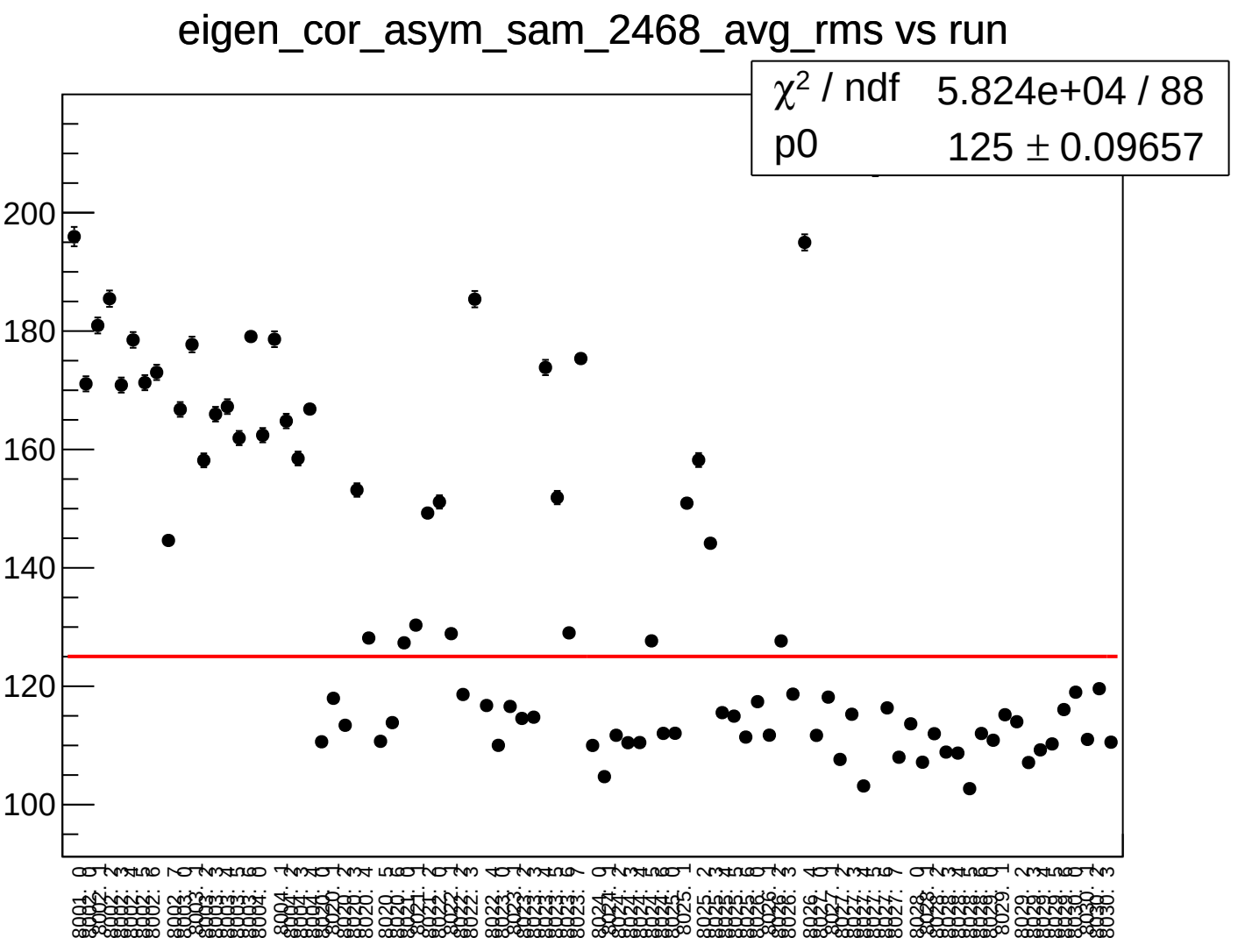

cor_asym_sam_2468_avg_rms vs run
χ^2 / ndf 5.824e+04 / 88
p0 125 ± 0.09657
200
180
160
140
120
100

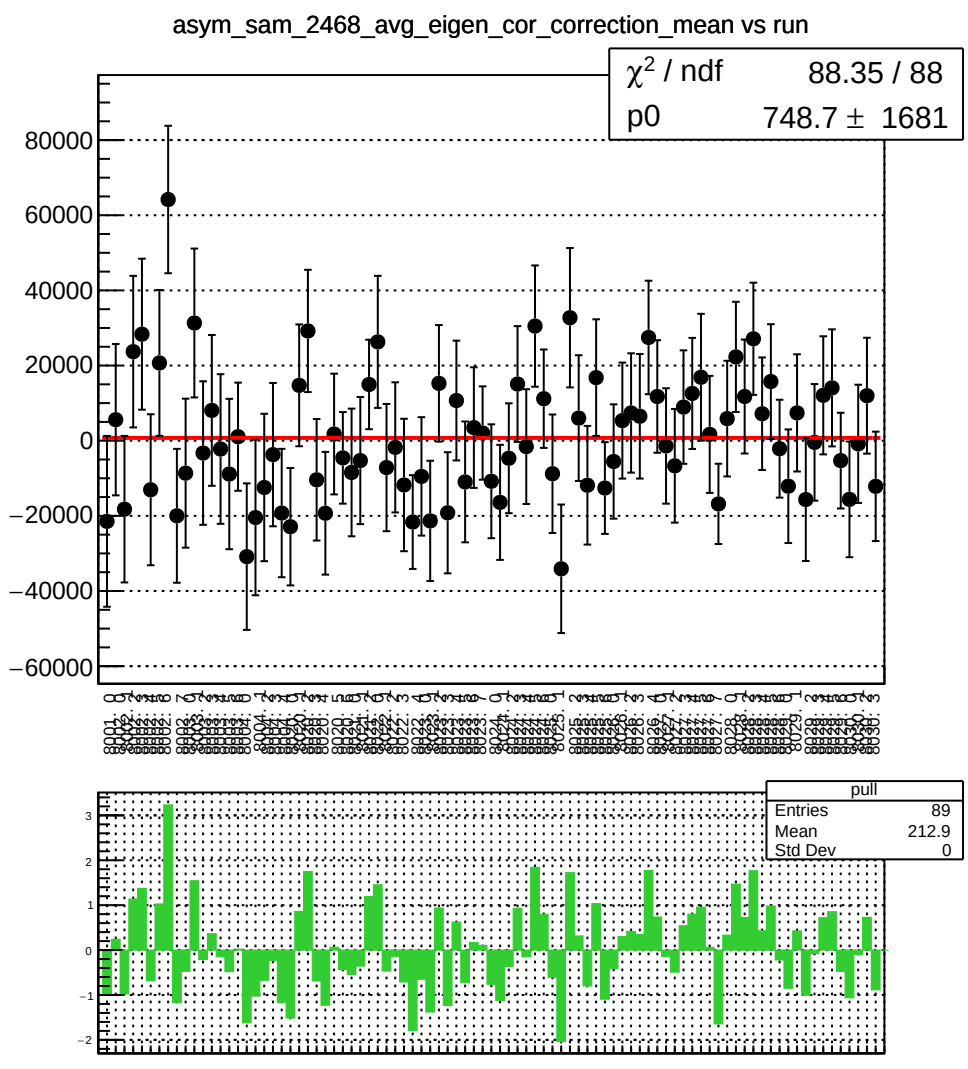

asym_sam_2468_avg_cor_correction_mean vs run
χ² / ndf 88.35 / 88
p0 748.7 ± 1681
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 212.9
Std Dev 0
3
2
1
0
−1
−2

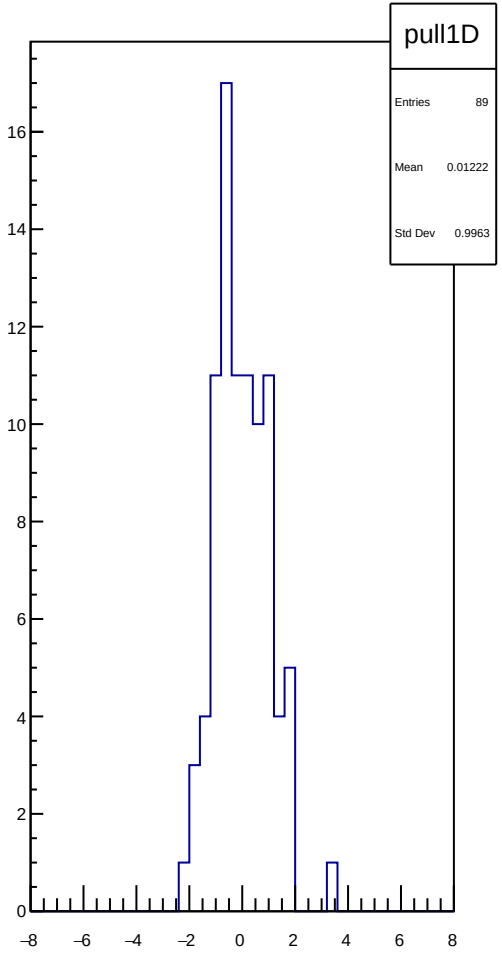

pull1D
Entries 89
Mean 0.01222
Std Dev 0.9963
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

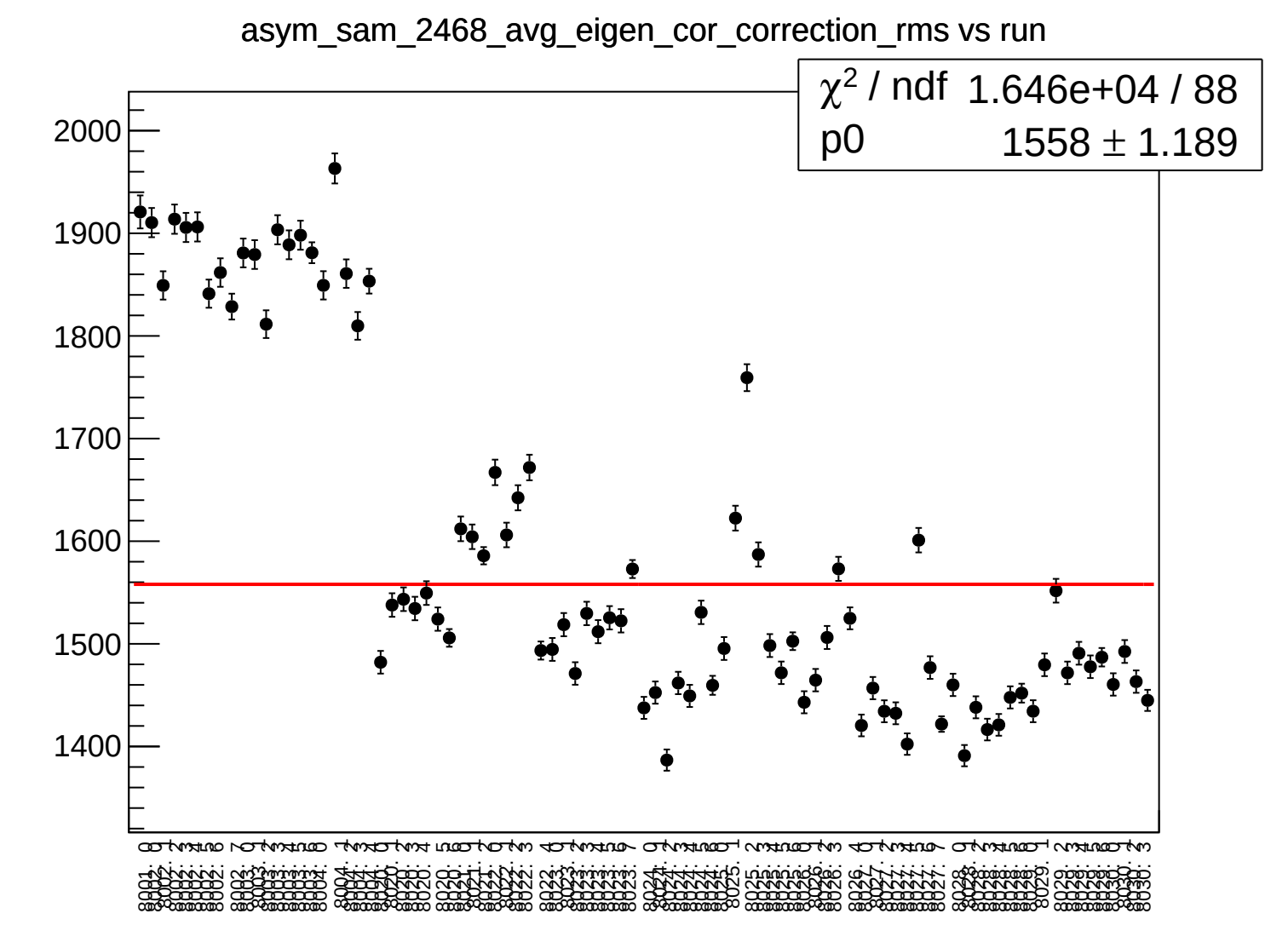

asym_sam_2468_avg_cor_correction_rms vs run
χ² / ndf 1.646e+04 / 88
p0 1558 ± 1.189
2000
1900
1800
1700
1600
1500
1400

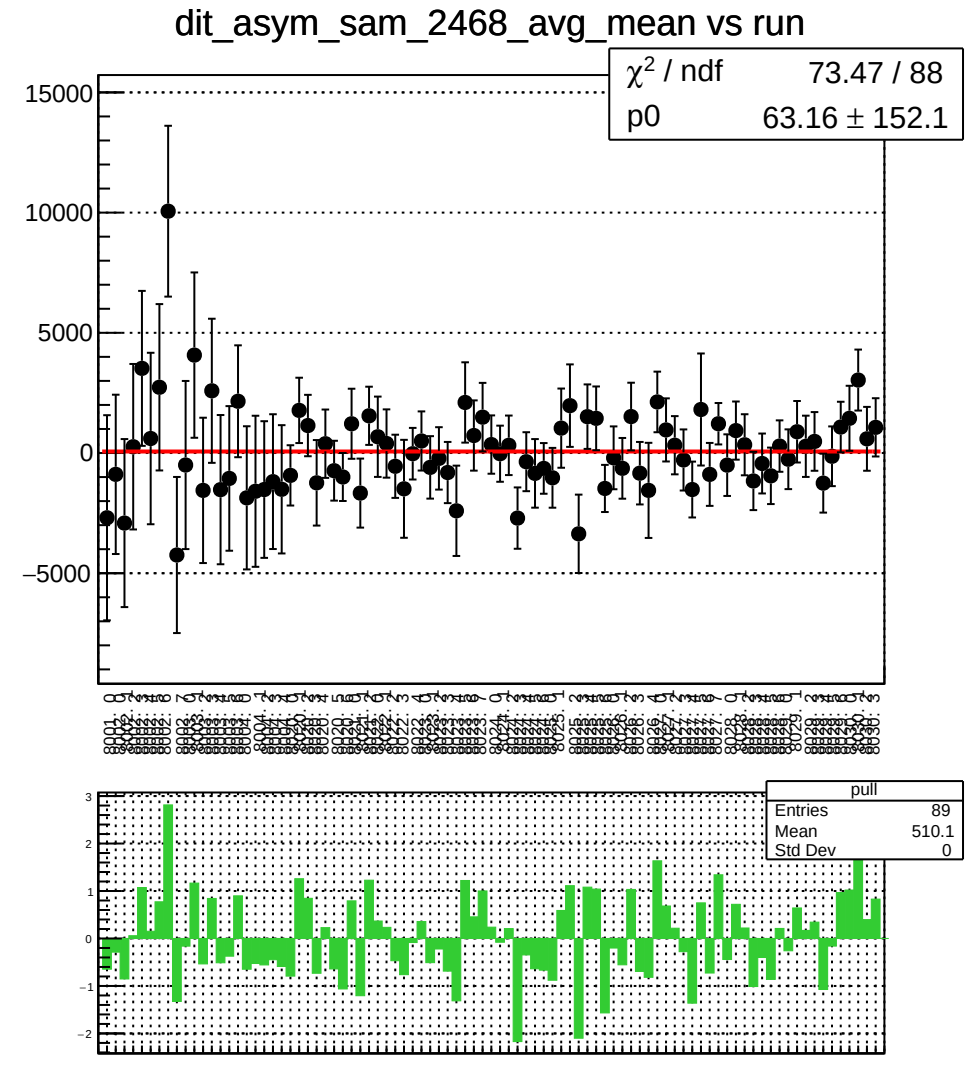

eigen_cor_asym_sam_2468_avg_mean vs run
χ² / ndf 74.94 / 88
p0 70.31 ± 136.6
4000
2000
0
−2000
−4000
pull
Entries 89
Mean −370
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.003962
Std Dev 0.9176
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

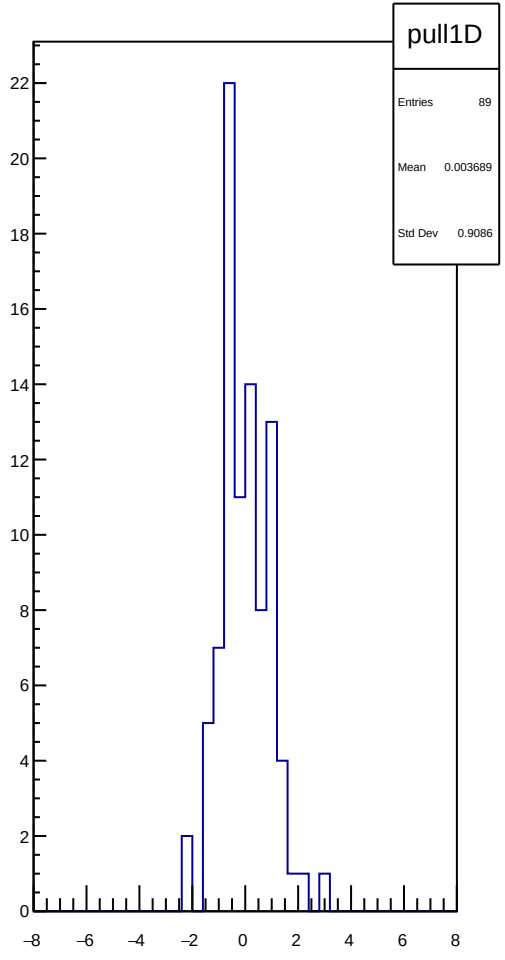

eigen_cor_asym_sam_2468_avg_rms vs run
χ² / ndf 5.824e+04 / 88
p0 125 ± 0.09657
200
180
160
140
120
100

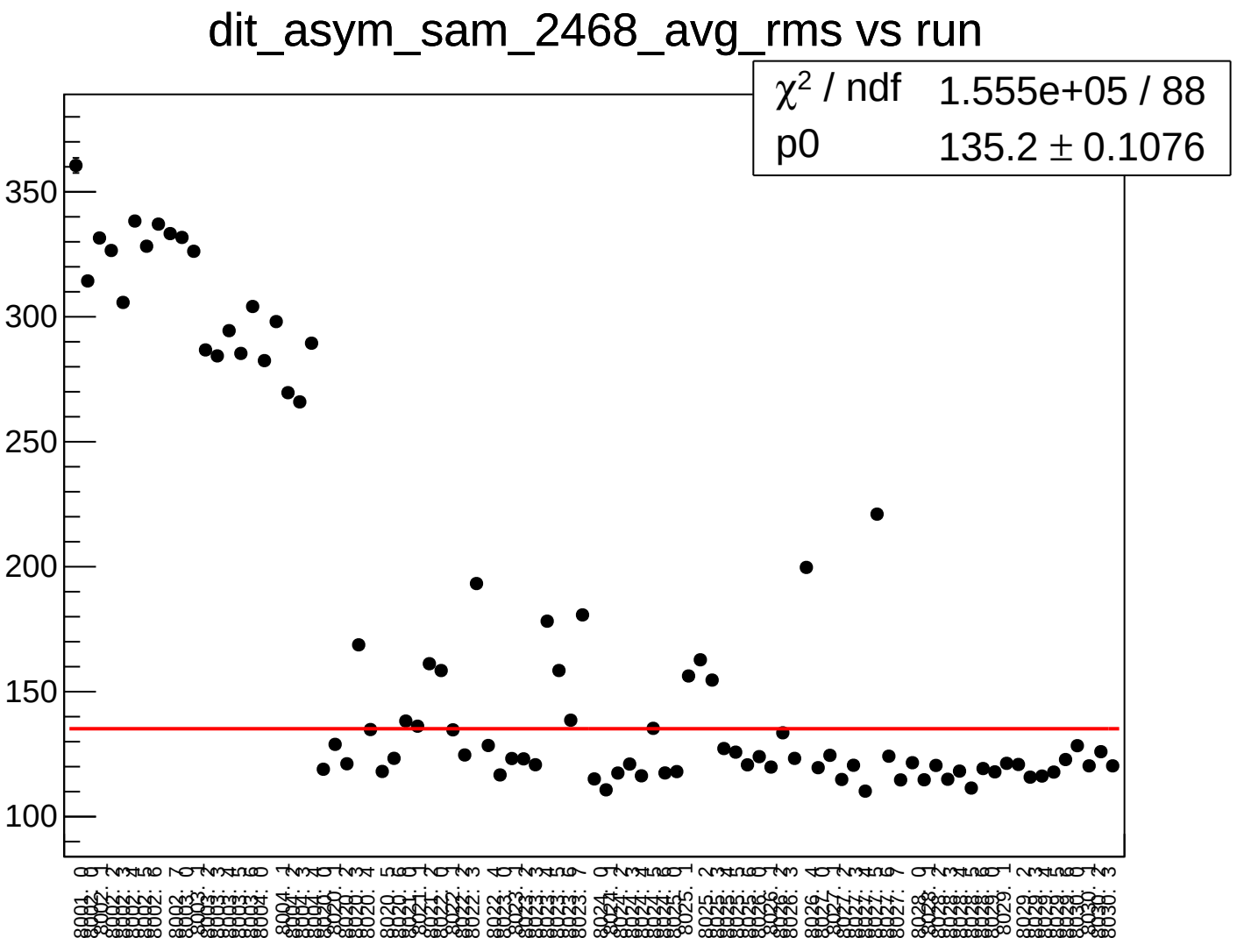

asym_sam_2468_avg_eigen_cor_correction_mean vs run
χ² / ndf 88.35 / 88
p0 748.7 ± 1681
pull
Entries 89
Mean 212.9
Std Dev 0

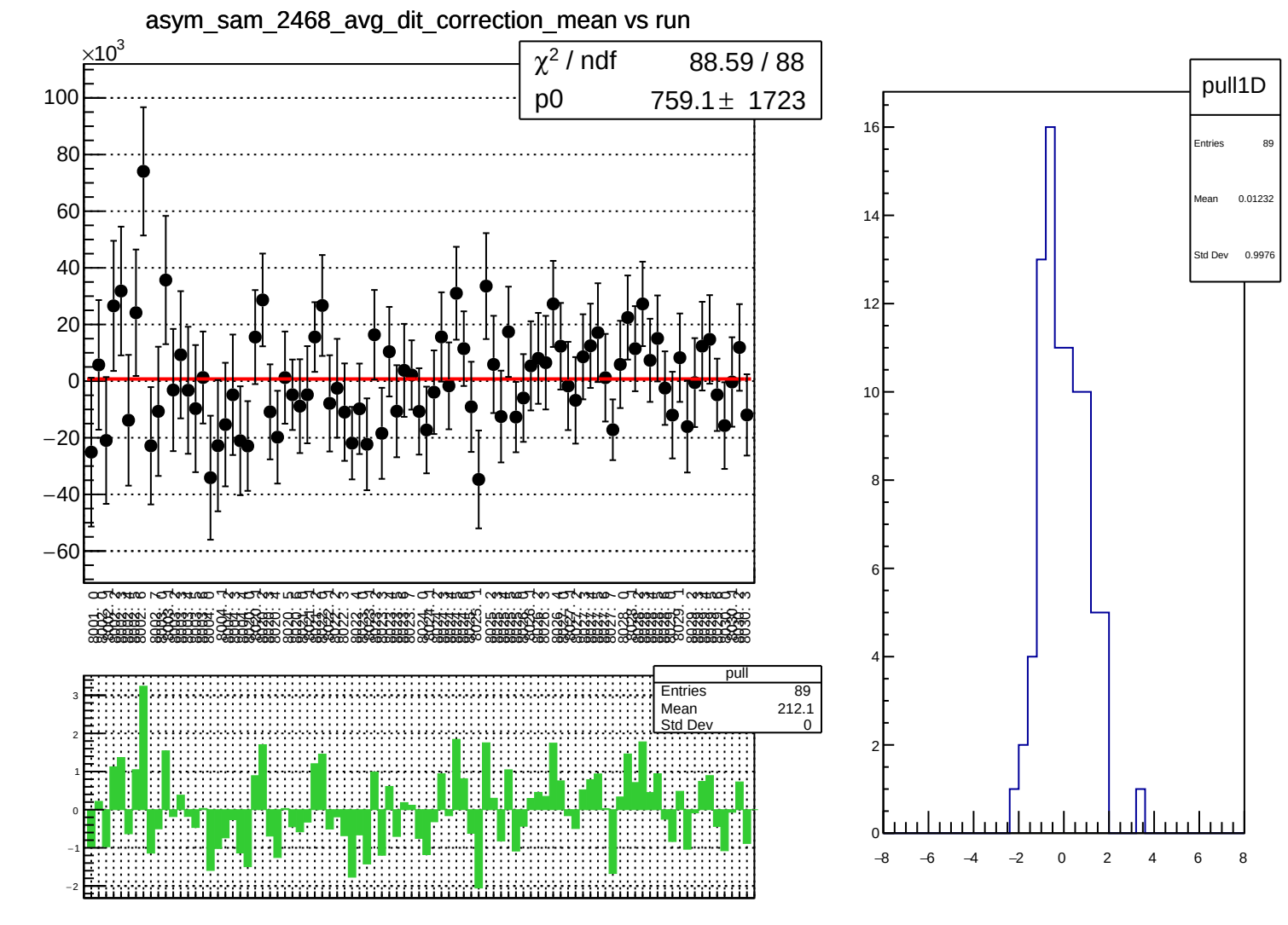

pull1D
Entries 89
Mean 0.01222
Std Dev 0.9963

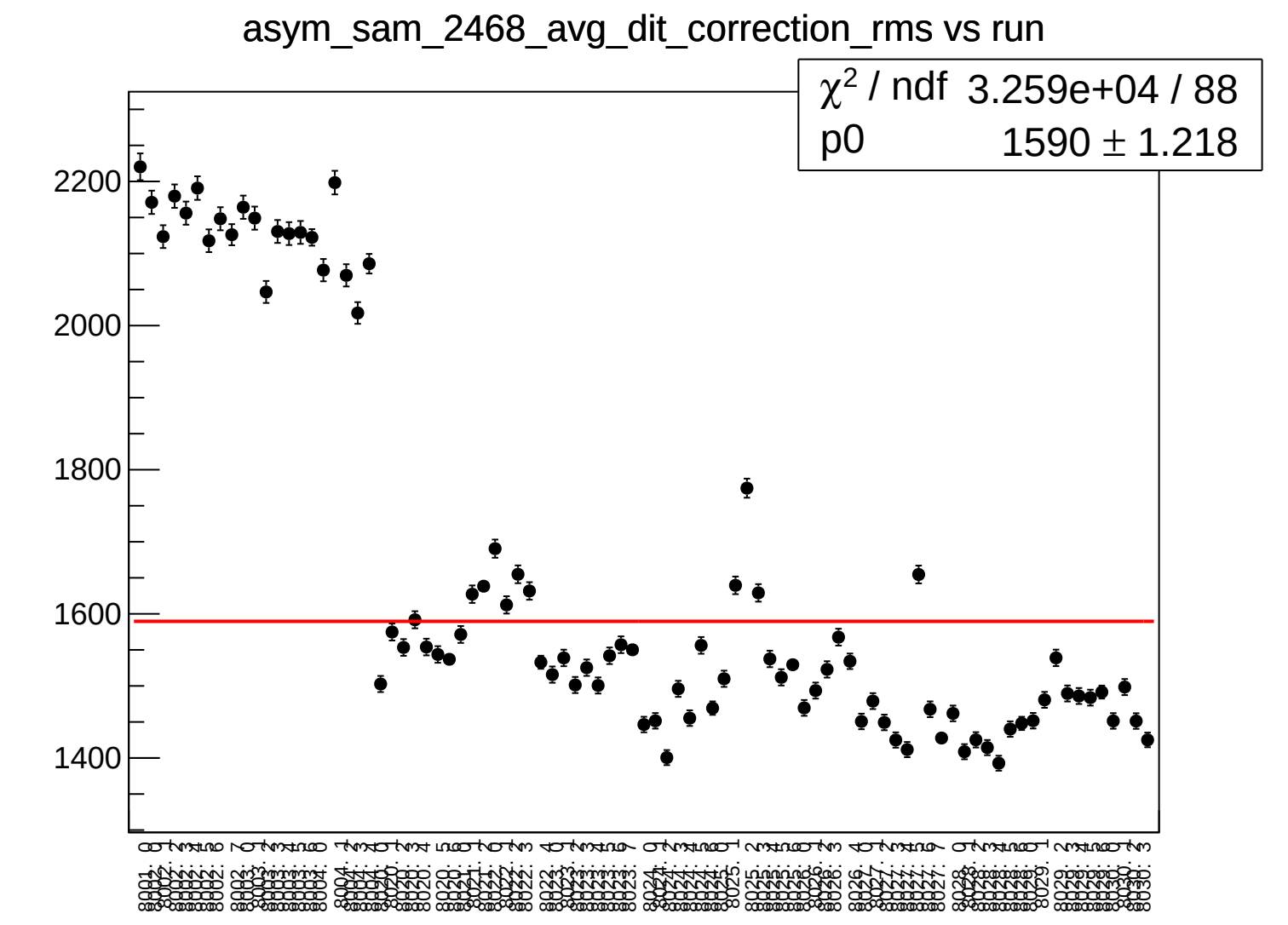

asym_sam_2468_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.646e+04 / 88
p0 1558 ± 1.189
2000
1900
1800
1700
1600
1500
1400

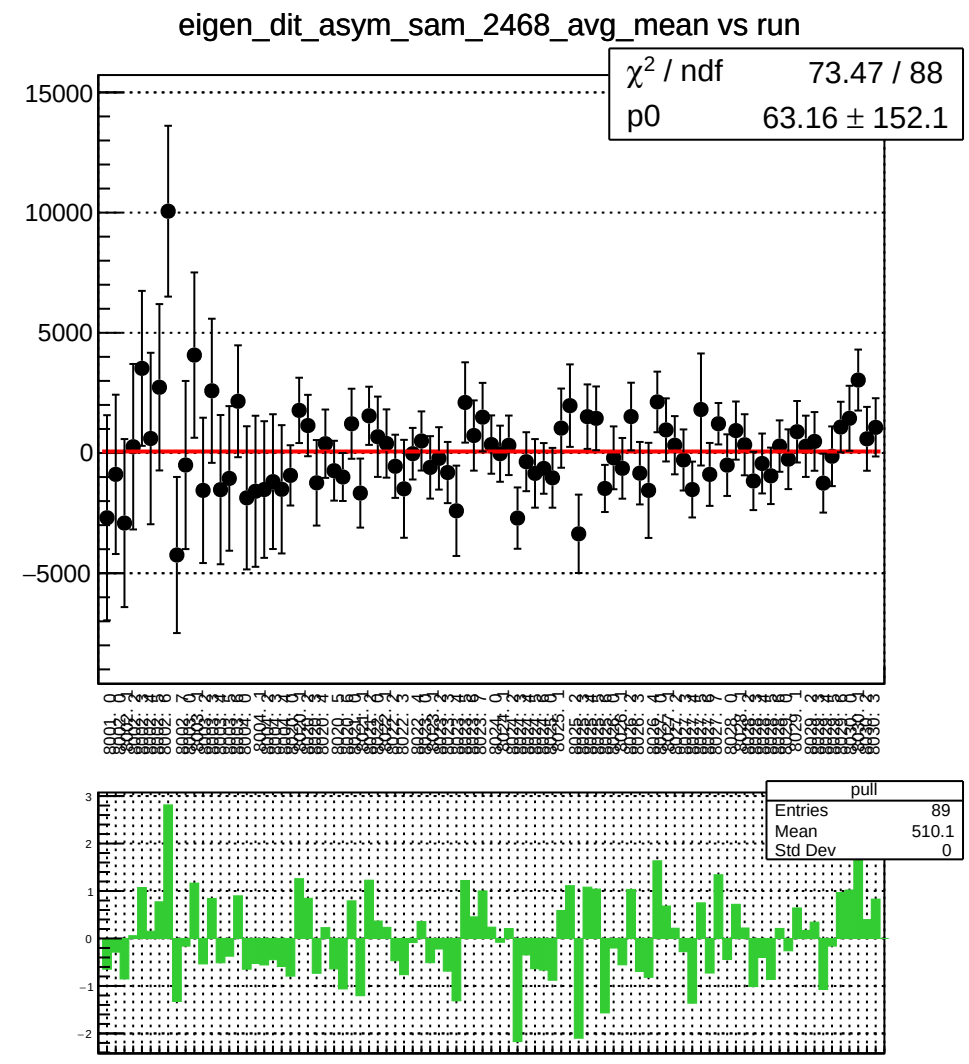

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 73.47 / 88
p0 63.16 ± 152.1
15000
10000
5000
0
−5000
pull
Entries 89
Mean 510.1
Std Dev 0
3
2
1
0
−1
−2

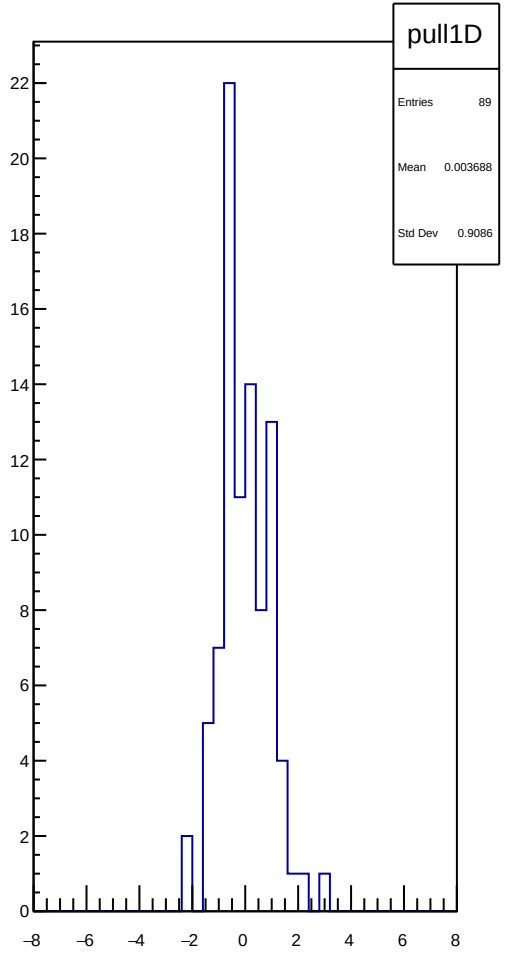

pull1D
Entries 89
Mean 0.003689
Std Dev 0.9086
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

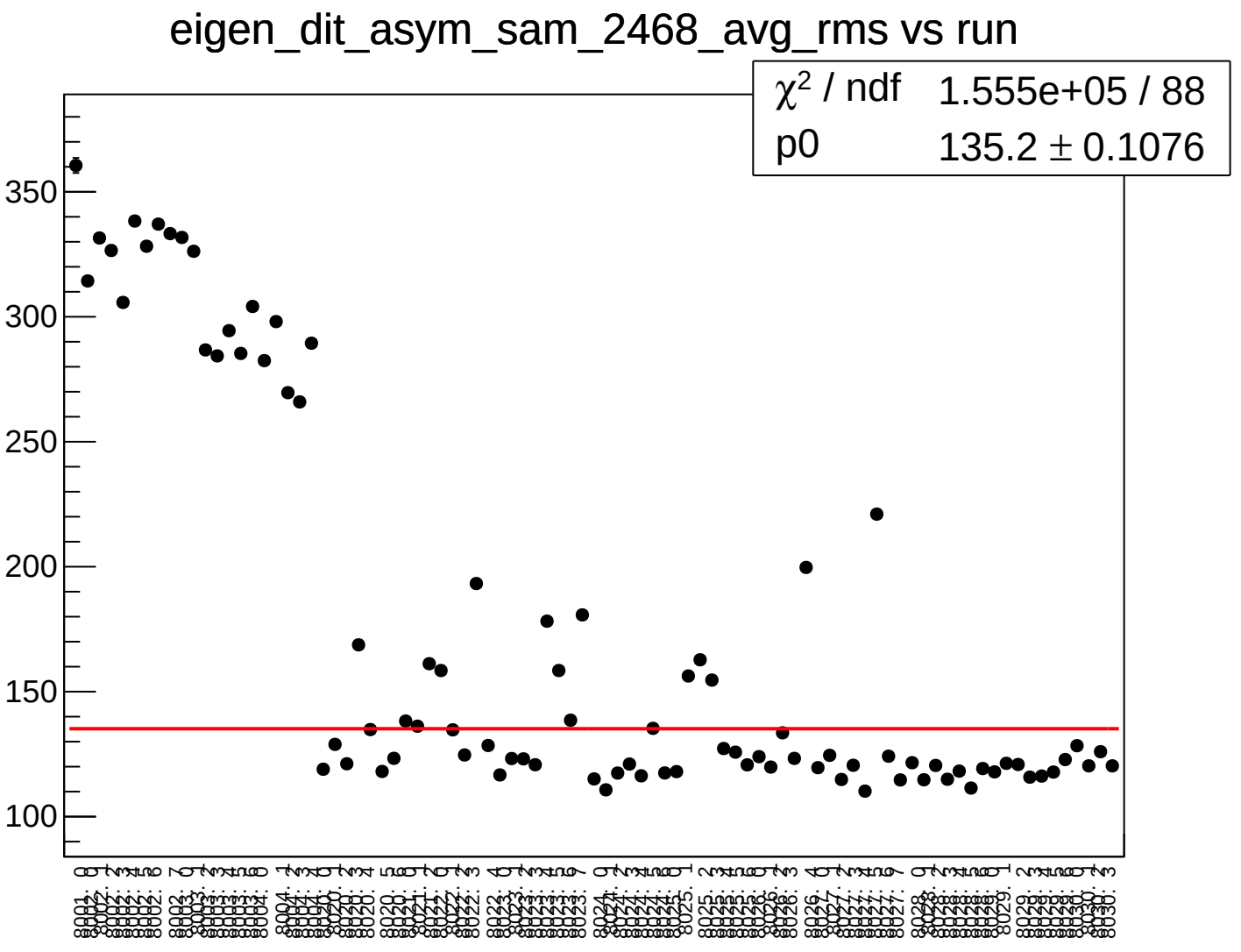

dit_asym_sam_2468_avg_rms vs run
χ² / ndf 1.555e+05 / 88
p0 135.2 ± 0.1076
350
300
250
200
150
100

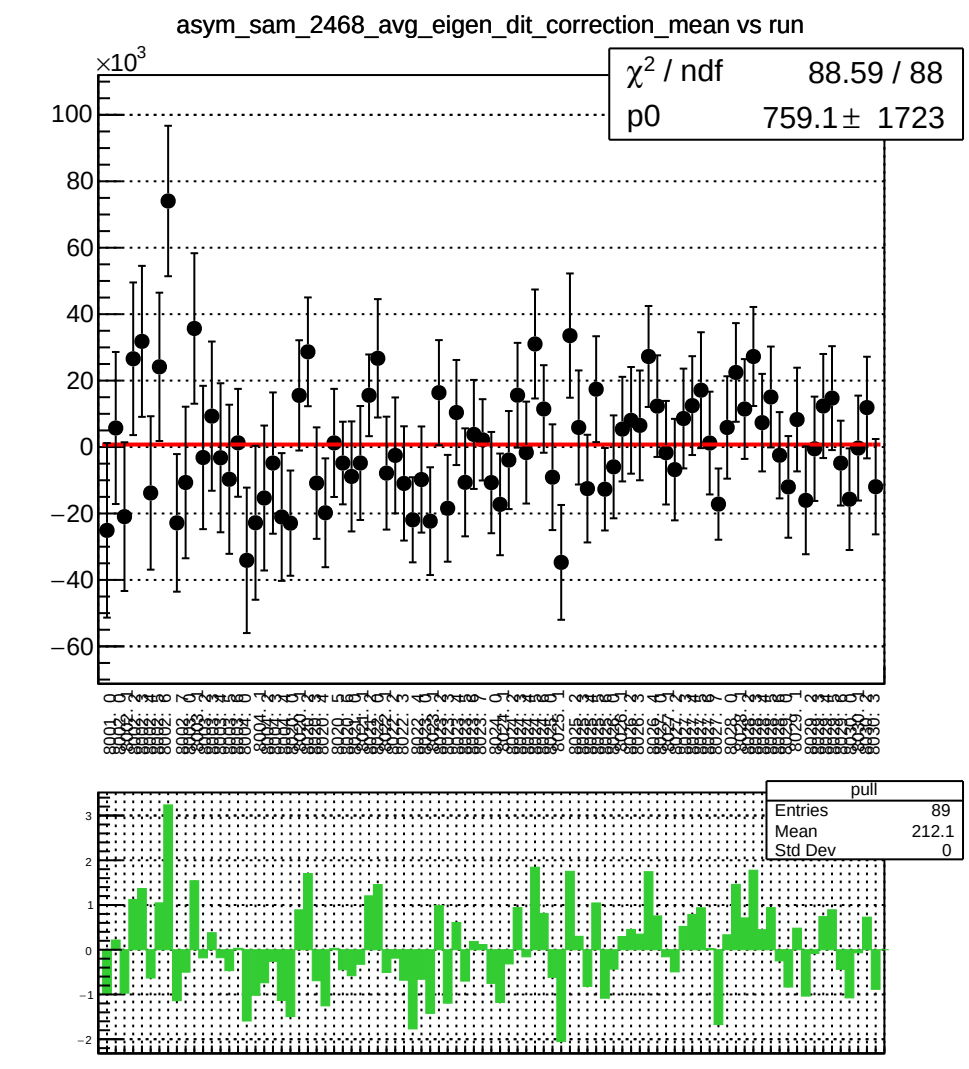

asym_sam_2468_avg_dit_correction_mean vs run
×10^3
χ² / ndf 88.59 / 88
p0 759.1 ± 1723
pull
Entries 89
Mean 212.1
Std Dev 0
pull1D
Entries 89
Mean 0.01232
Std Dev 0.9976

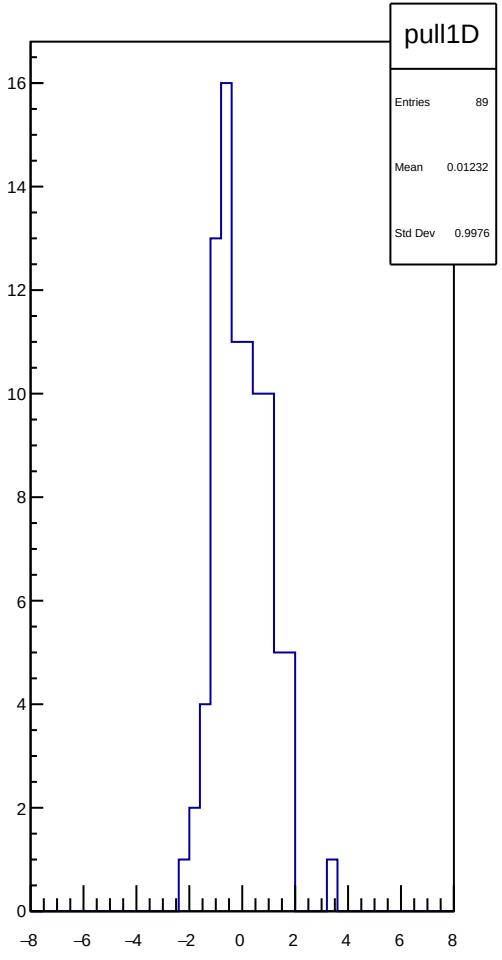

asym_sam_2468_avg_dit_correction_rms vs run
χ² / ndf 3.259e+04 / 88
p0 1590 ± 1.218
2200
2000
1800
1600
1400

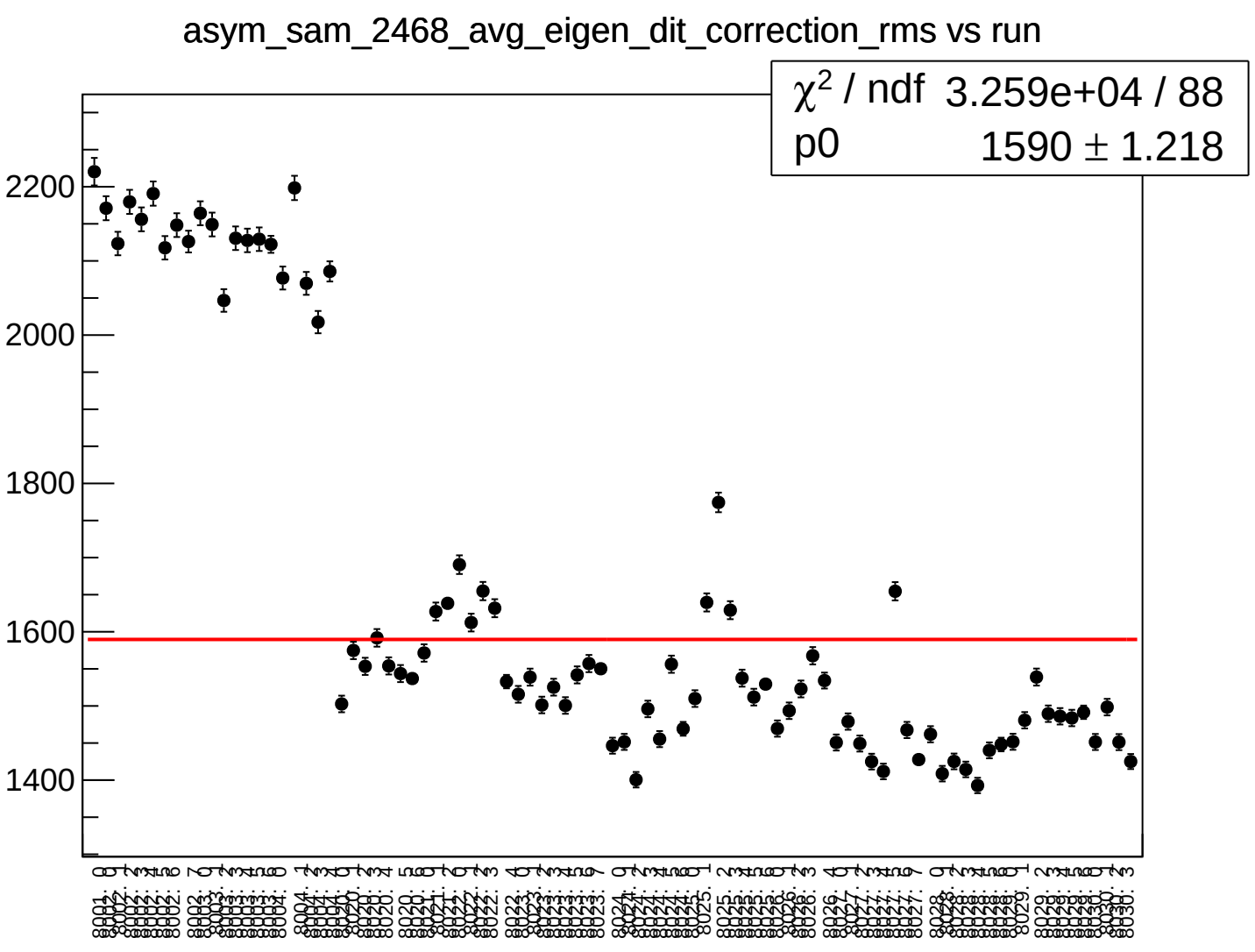

eigen_dit_asym_sam_2468_avg_mean vs run
χ² / ndf 73.47 / 88
p0 63.16 ± 152.1
15000
10000
5000
0
−5000
pull
Entries 89
Mean 510.1
Std Dev 0
3
2
1
0
−1
−2

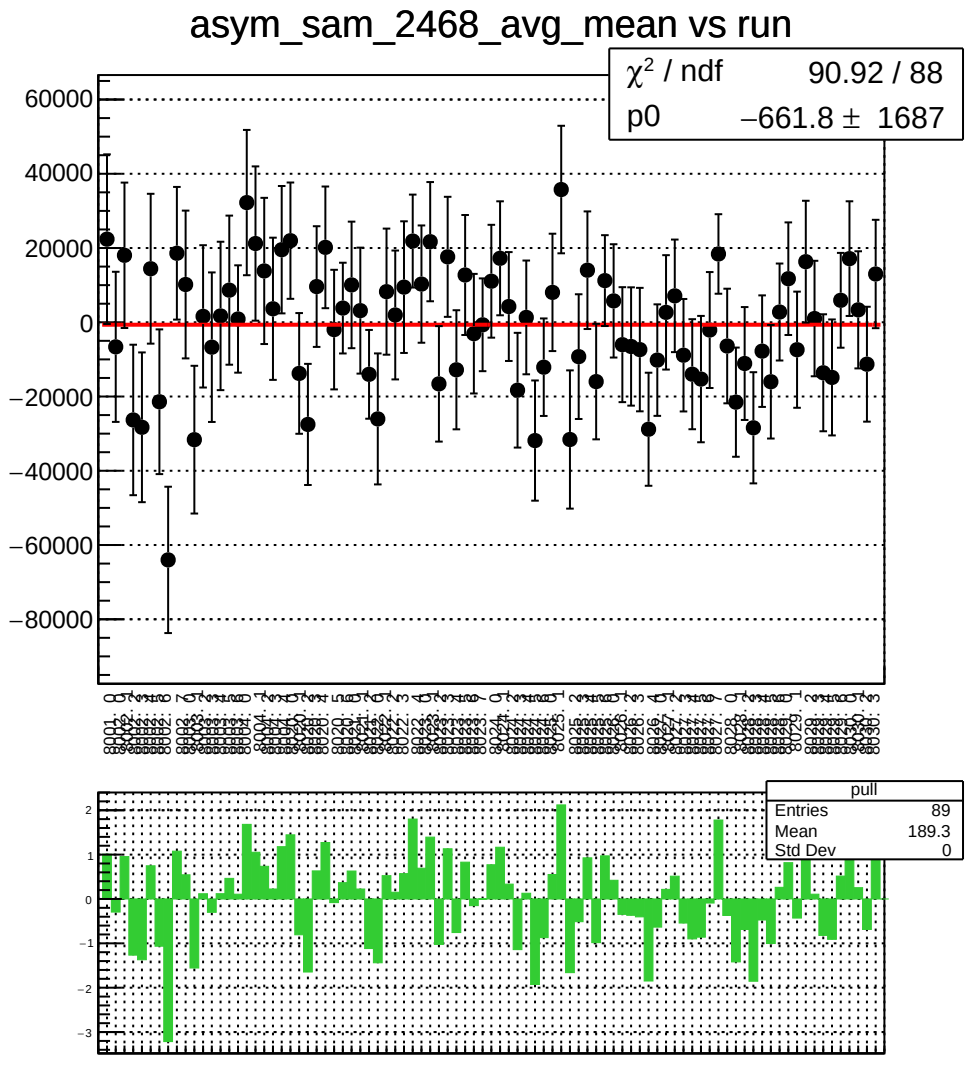

pull1D
Entries 89
Mean 0.003688
Std Dev 0.9086
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

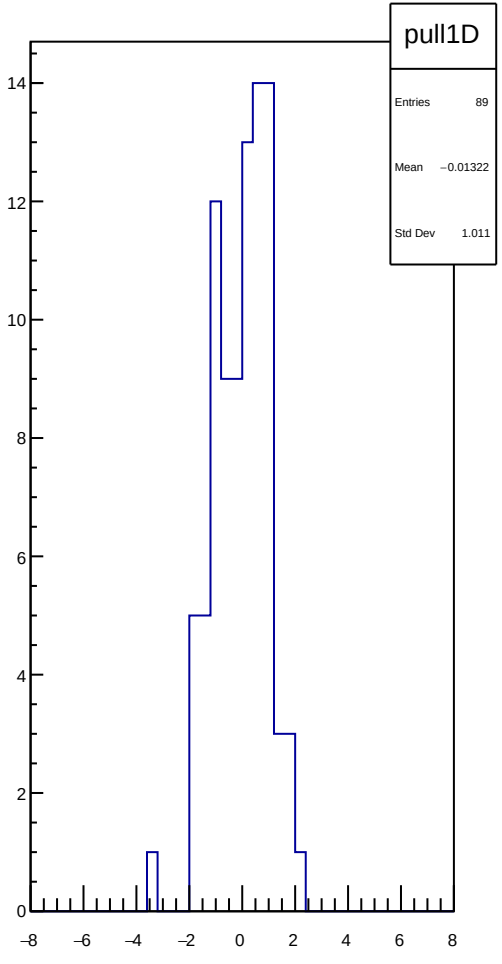

eigen_dit_asym_sam_2468_avg_rms vs run
χ² / ndf 1.555e+05 / 88
p0 135.2 ± 0.1076
350
300
250
200
150
100

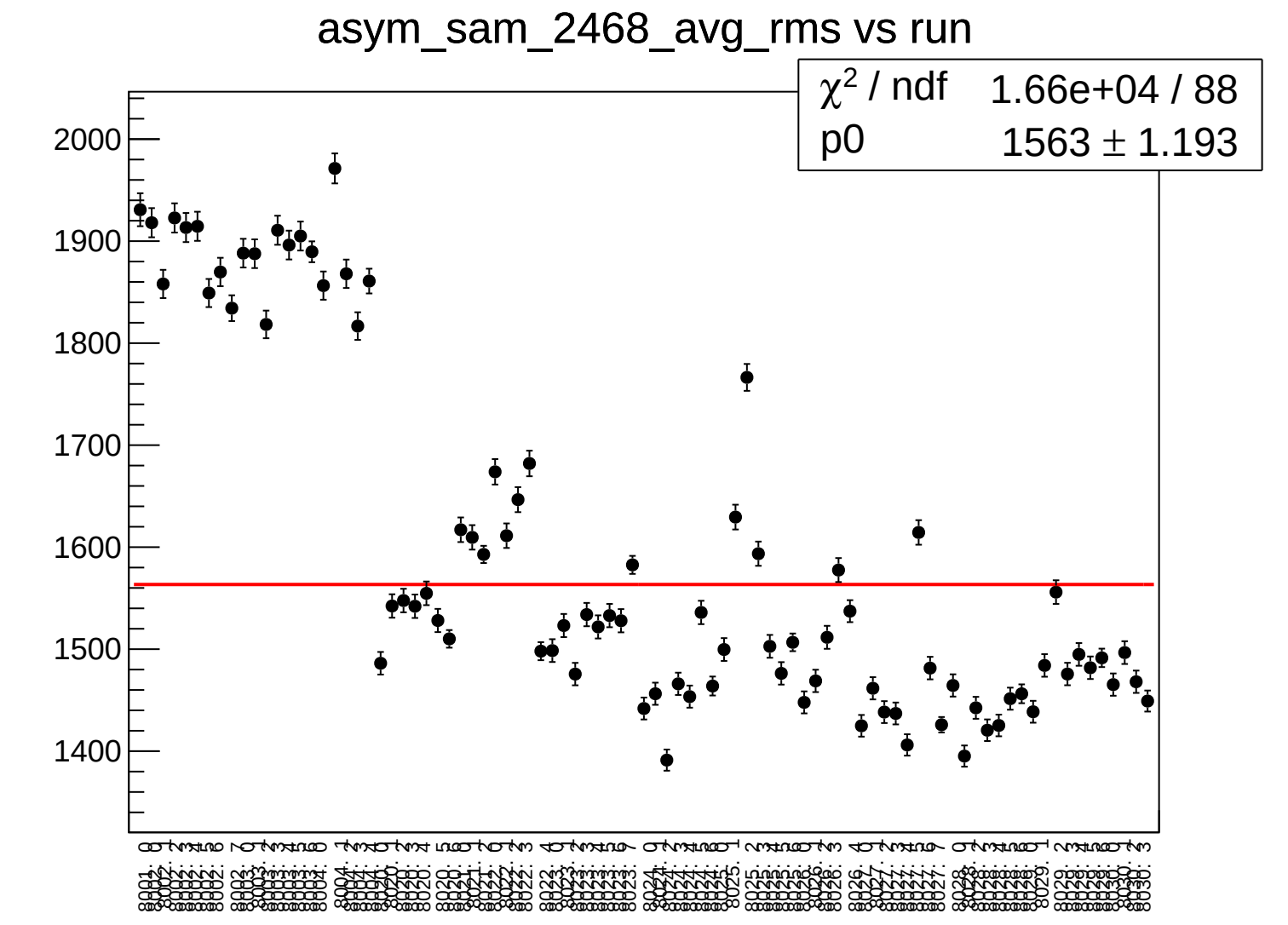

asym_sam_2468_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 88.59 / 88
p0 759.1 ± 1723
pull
Entries 89
Mean 212.1
Std Dev 0

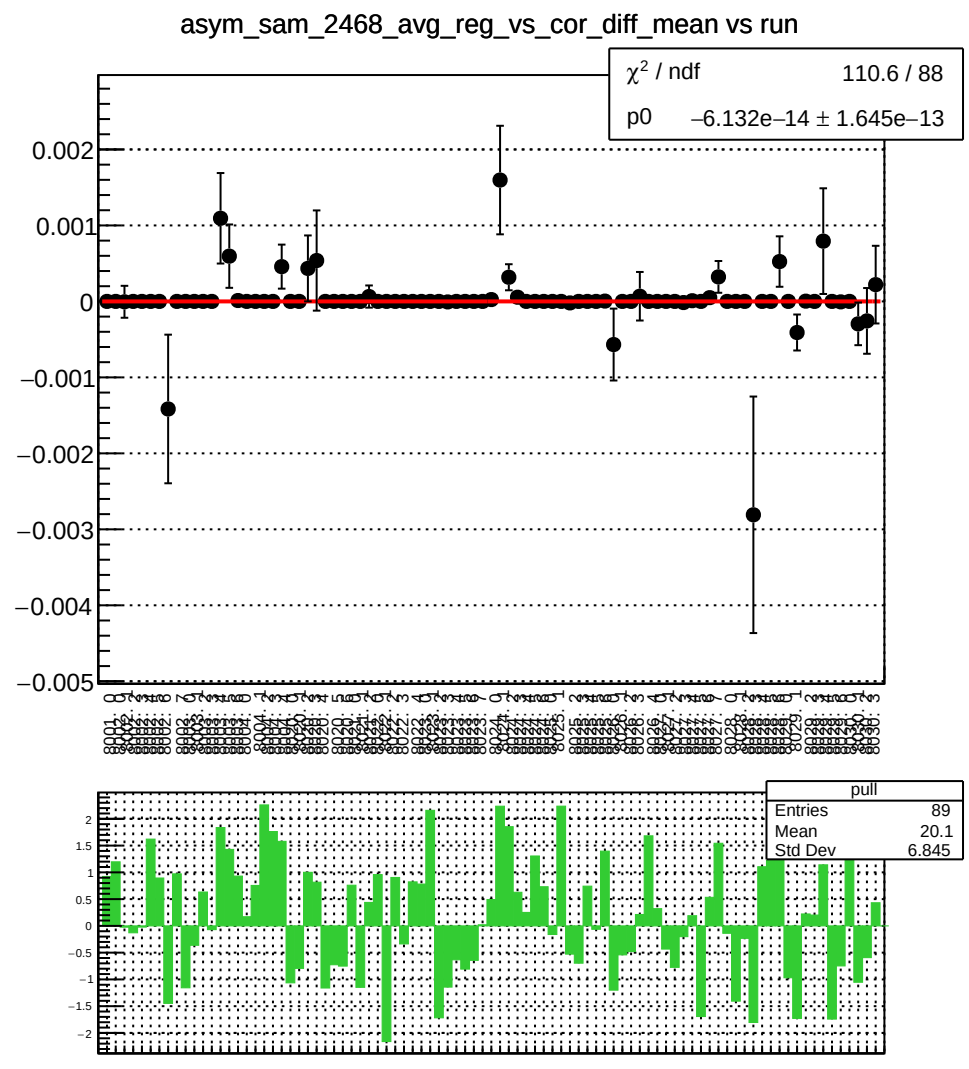

pull1D
Entries 89
Mean 0.01232
Std Dev 0.9976

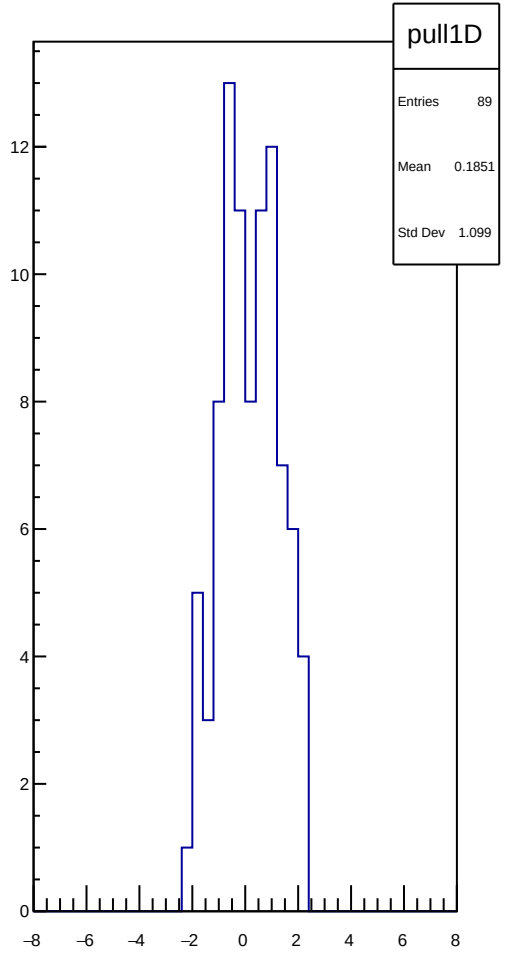

asym_sam_2468_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.259e+04 / 88
p0 1590 ± 1.218
2200
2000
1800
1600
1400

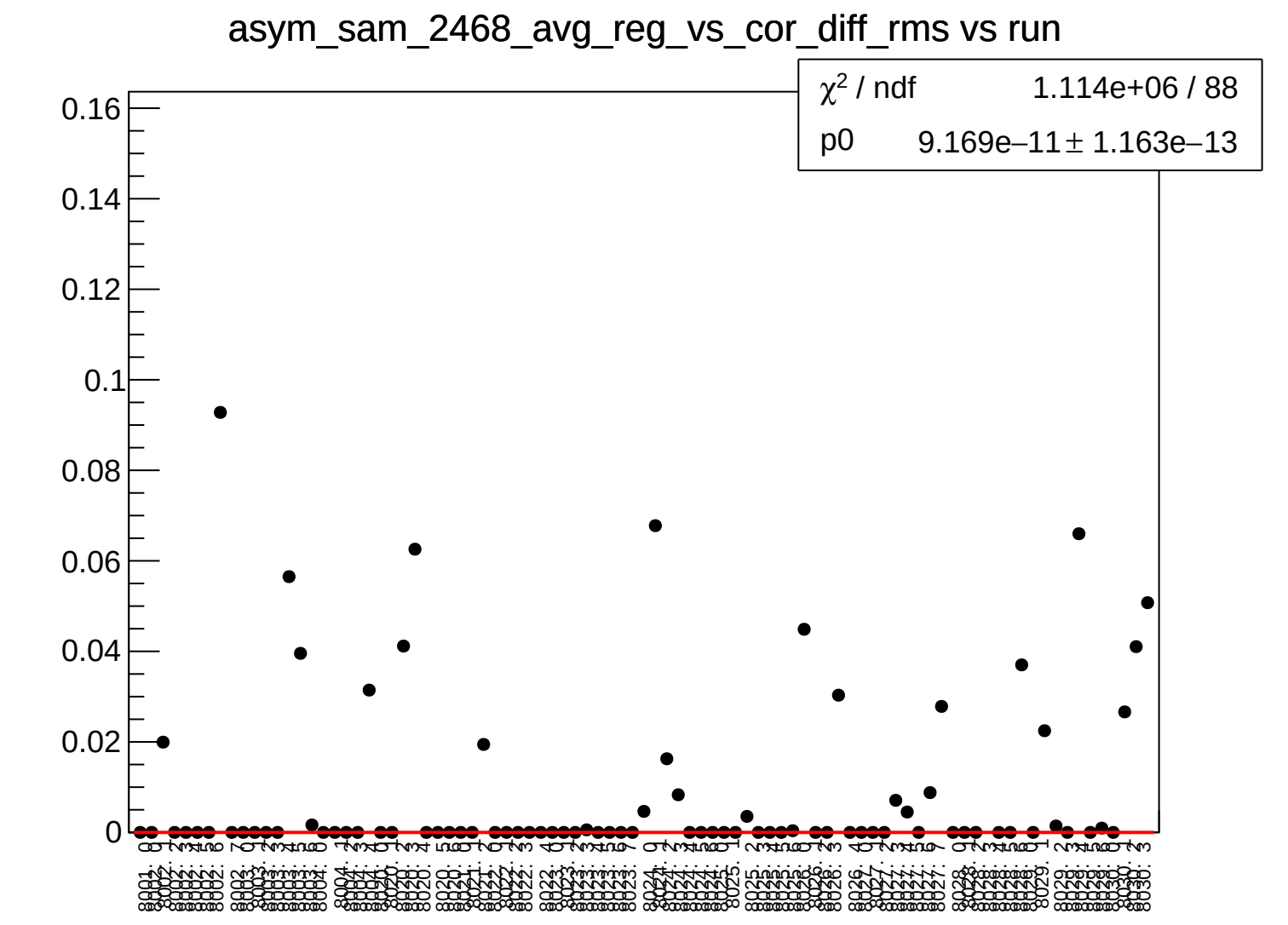

asym_sam_2468_avg_mean vs run
χ² / ndf 90.92 / 88
p0 −661.8 ± 1687
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean 189.3
Std Dev 0
2
1
0
−1
−2
−3

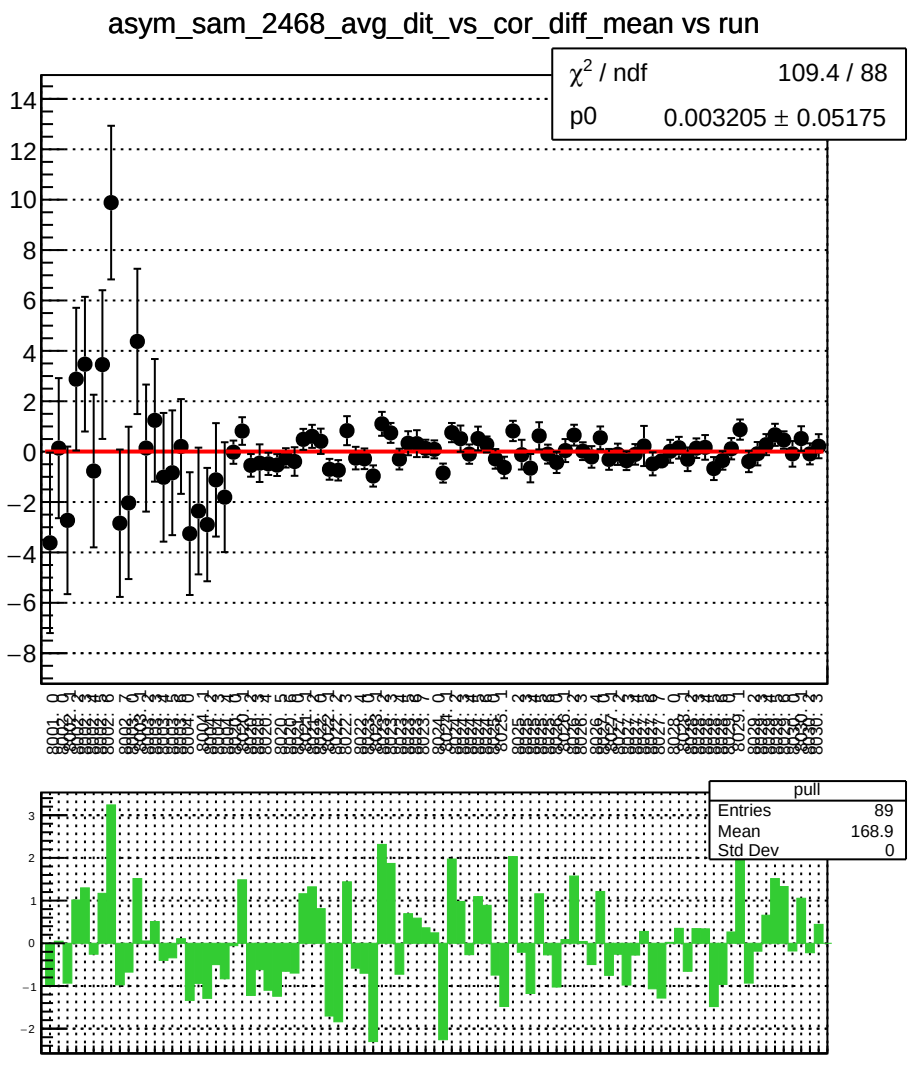

pull1D
Entries 89
Mean −0.01322
Std Dev 1.011
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

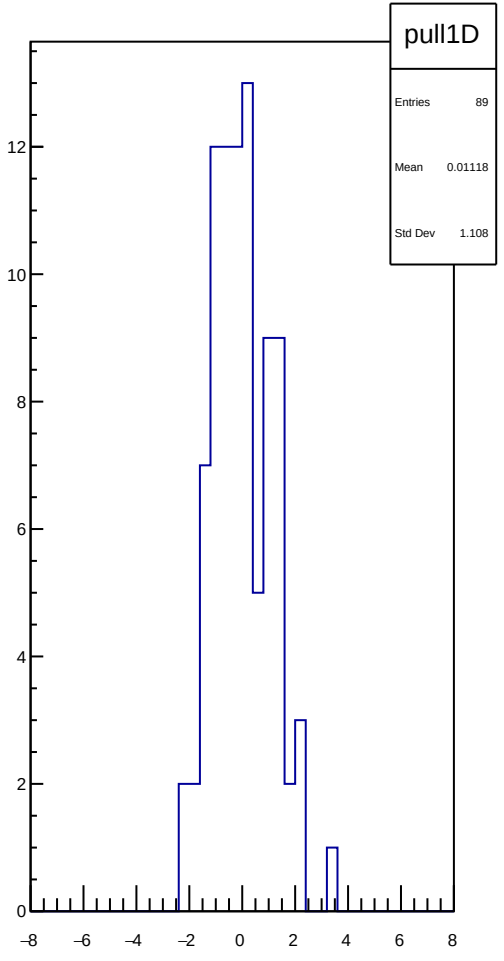

asym_sam_2468_avg_rms vs run
χ^2 / ndf 1.66e+04 / 88
p0 1563 ± 1.193
2000
1900
1800
1700
1600
1500
1400

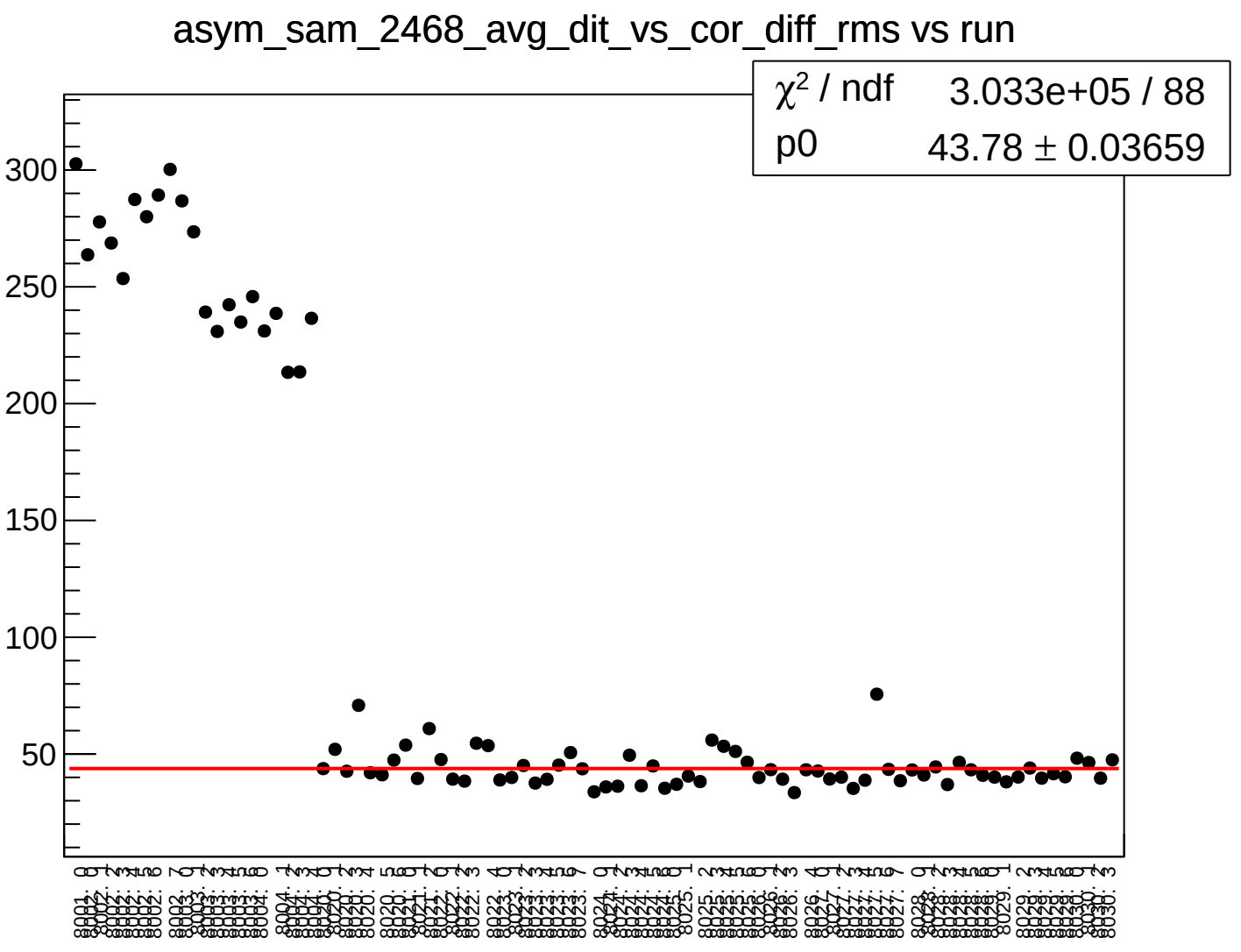

asym_sam_2468_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 110.6 / 88
p0 −6.132e−14 ± 1.645e−13
0.002
0.001
0
−0.001
−0.002
−0.003
−0.004
−0.005
pull
Entries 89
Mean 20.1
Std Dev 6.845
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

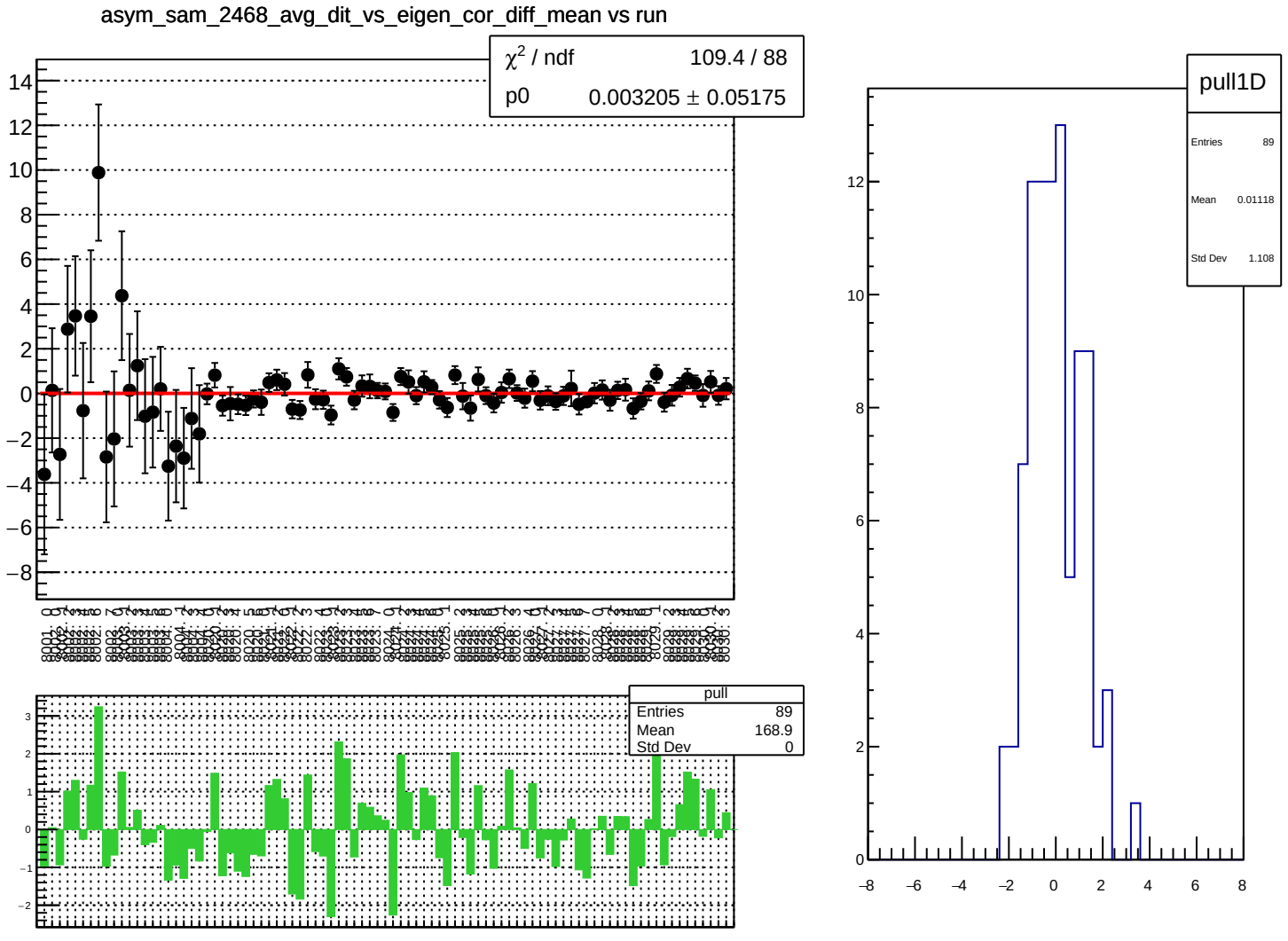

pull1D
Entries 89
Mean 0.1851
Std Dev 1.099
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

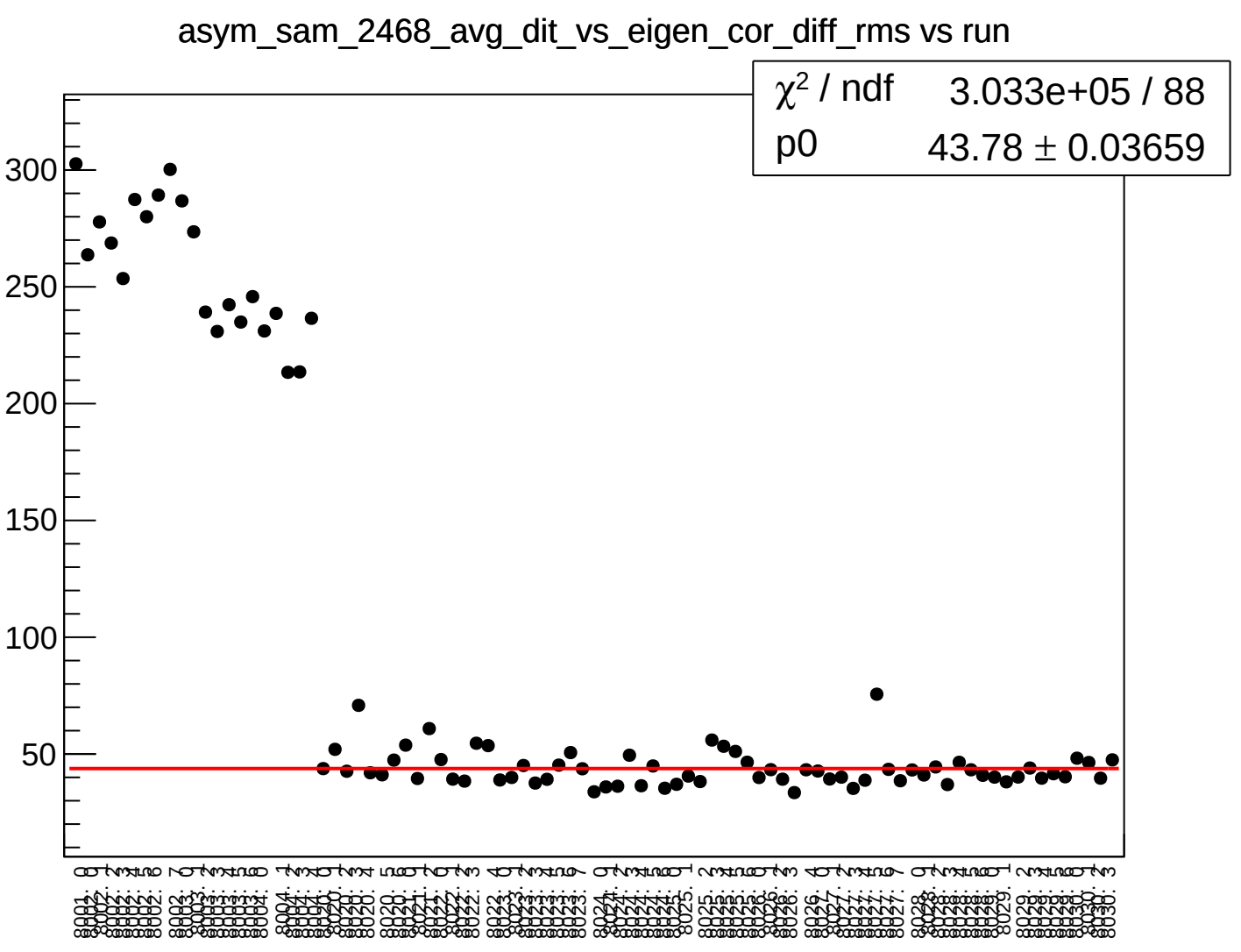

asym_sam_2468_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.114e+06 / 88
p0 9.169e−11 ± 1.163e−13
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

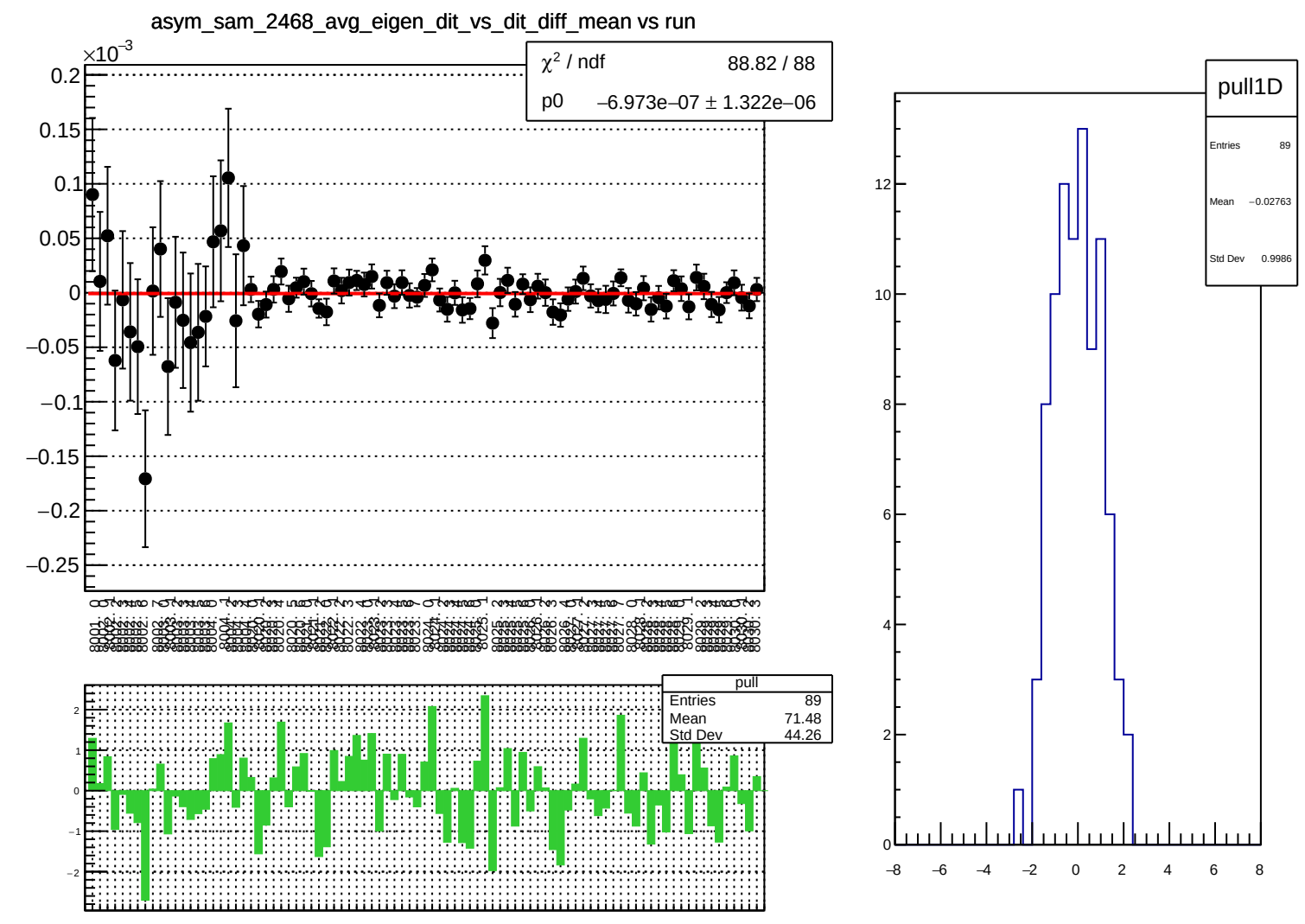

asym_sam_2468_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 109.4 / 88
p0 0.003205 ± 0.05175
pull
Entries 89
Mean 168.9
Std Dev 0

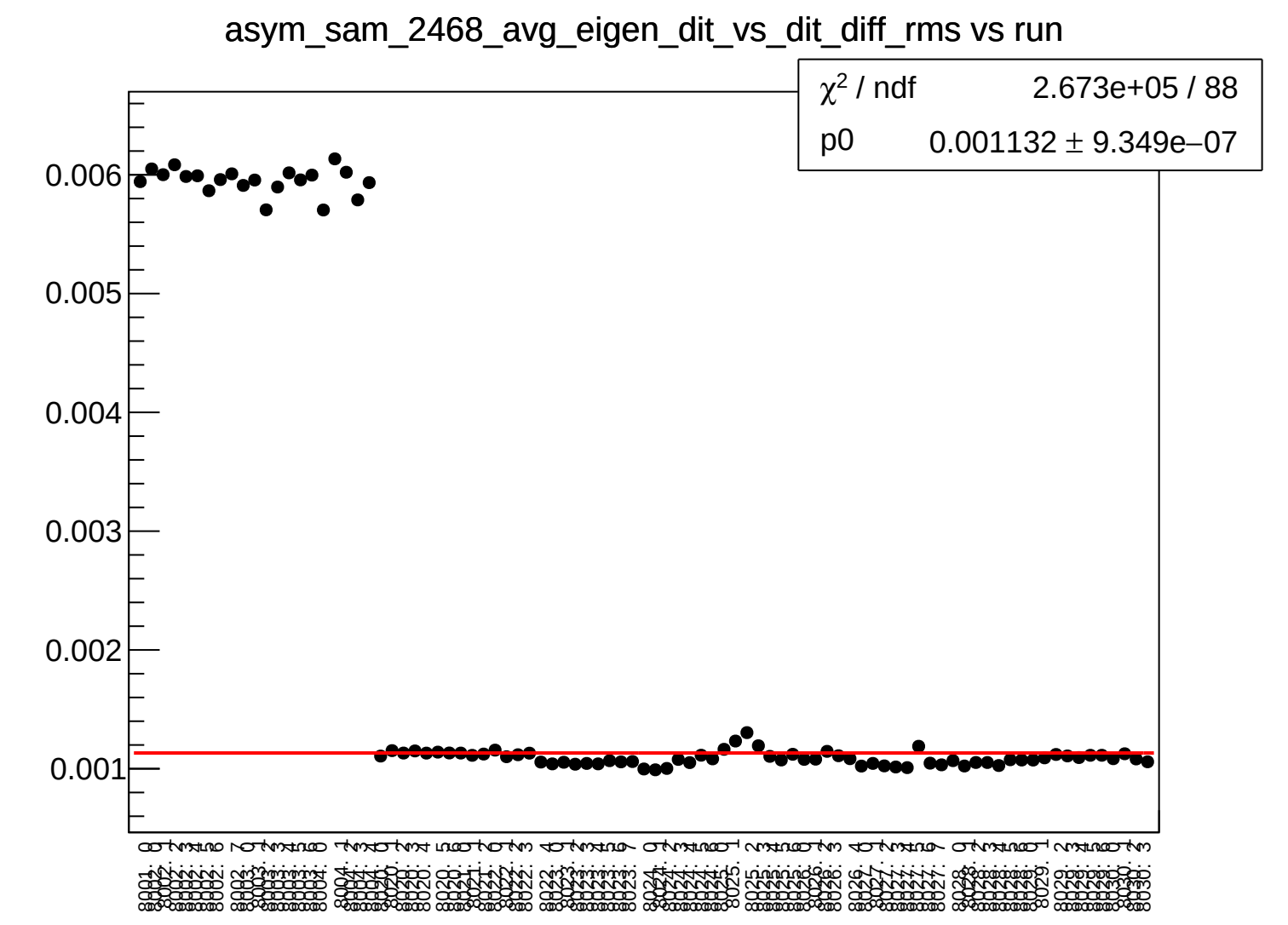

pull1D
Entries 89
Mean 0.01118
Std Dev 1.108

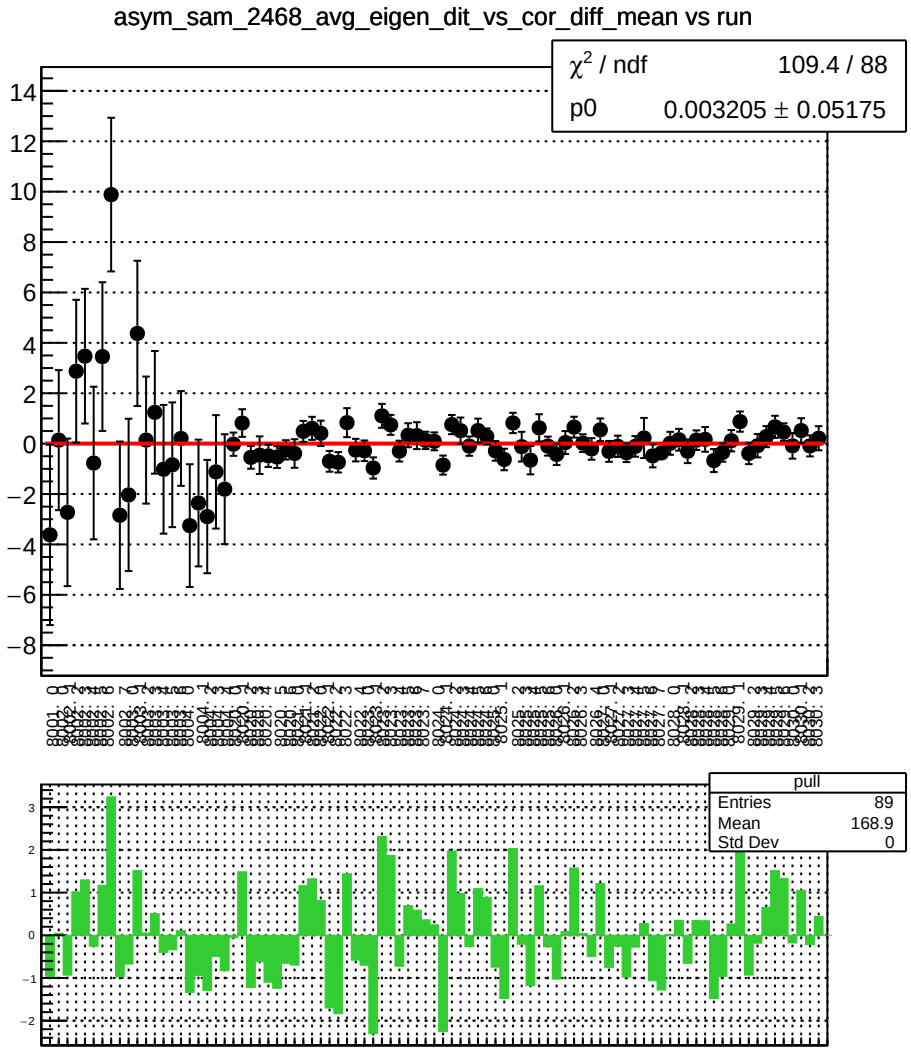

asym_sam_2468_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.033e+05 / 88
p0 43.78 ± 0.03659
300
250
200
150
100
50

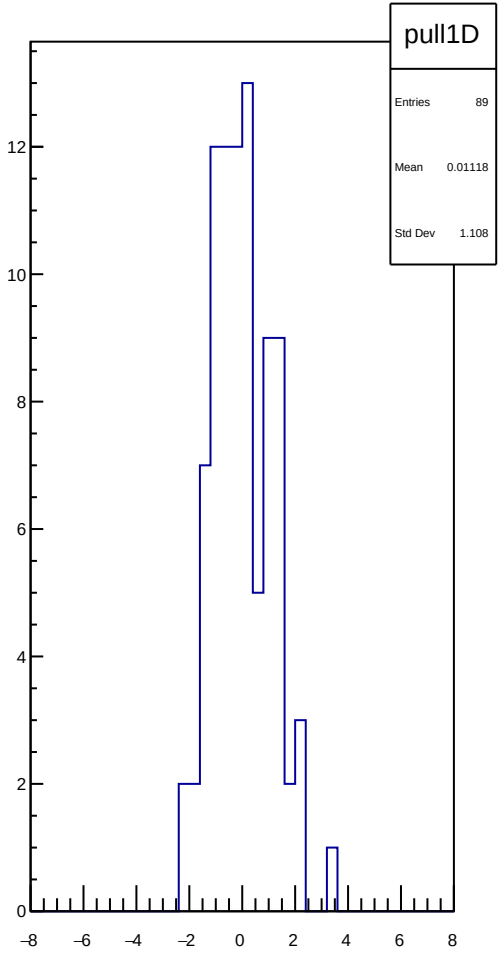

asym_sam_2468_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.4 / 88
p0 0.003205 ± 0.05175
pull
Entries 89
Mean 168.9
Std Dev 0
pull1D
Entries 89
Mean 0.01118
Std Dev 1.108

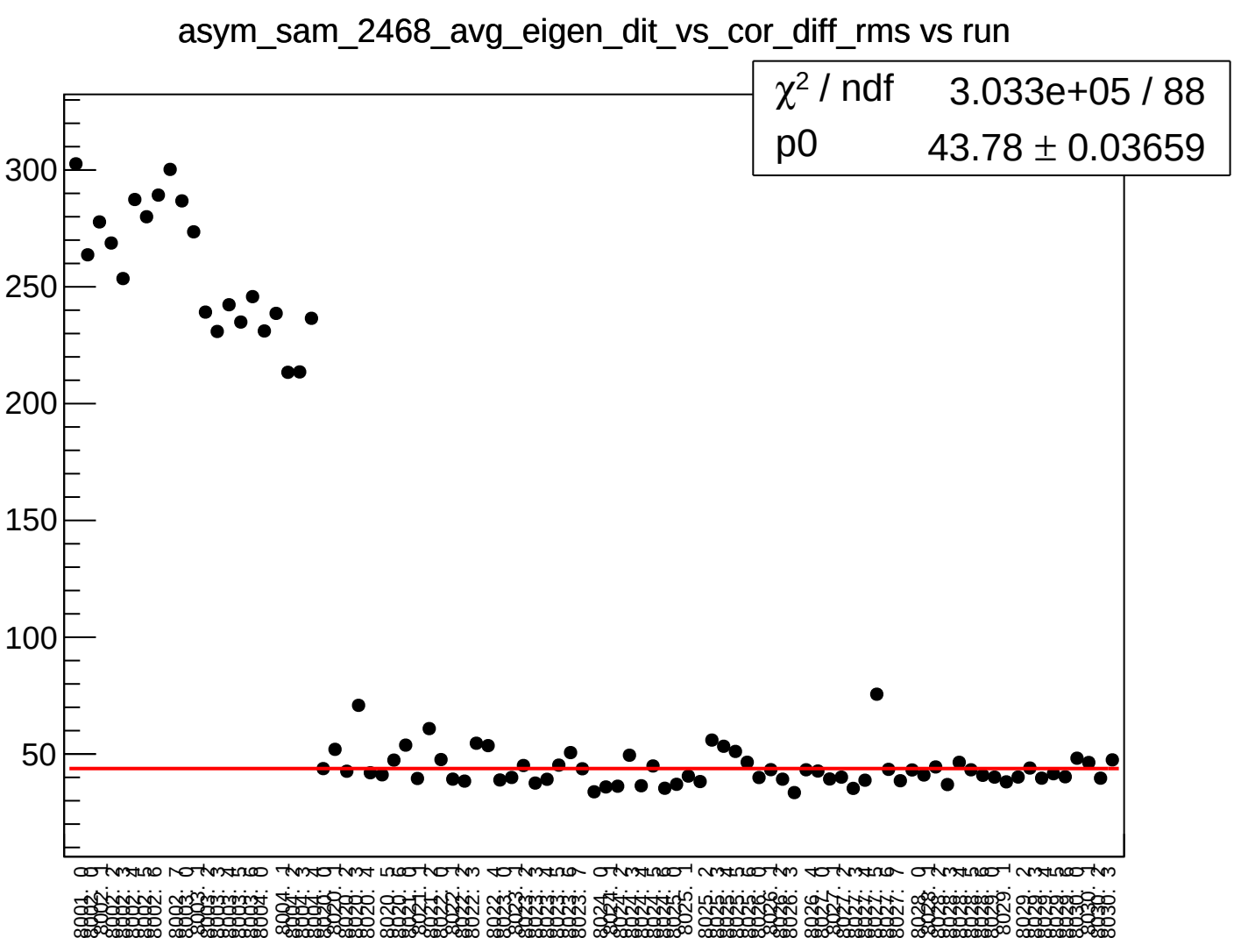

asym_sam_2468_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.033e+05 / 88
p0 43.78 ± 0.03659
300
250
200
150
100
50

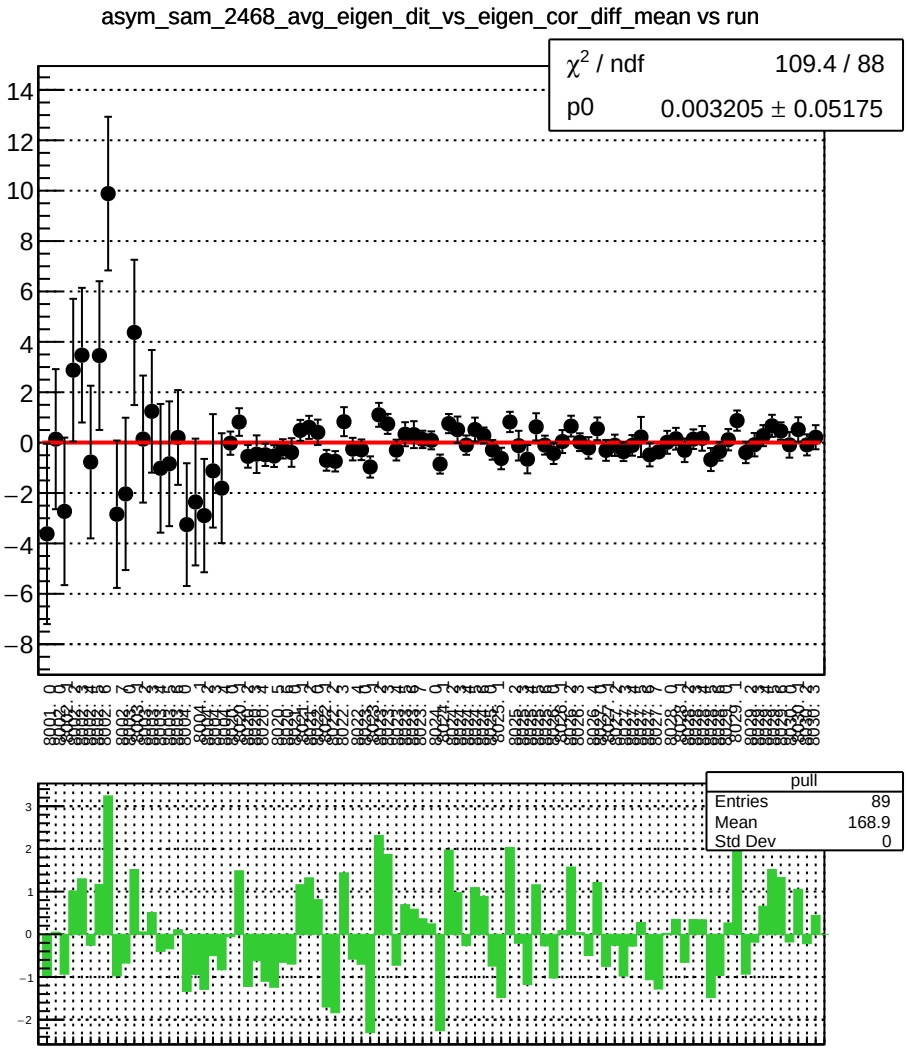

asym_sam_2468_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.82 / 88
p0 −6.973e−07 ± 1.322e−06
pull
Entries 89
Mean 71.48
Std Dev 44.26
pull1D
Entries 89
Mean −0.02763
Std Dev 0.9986

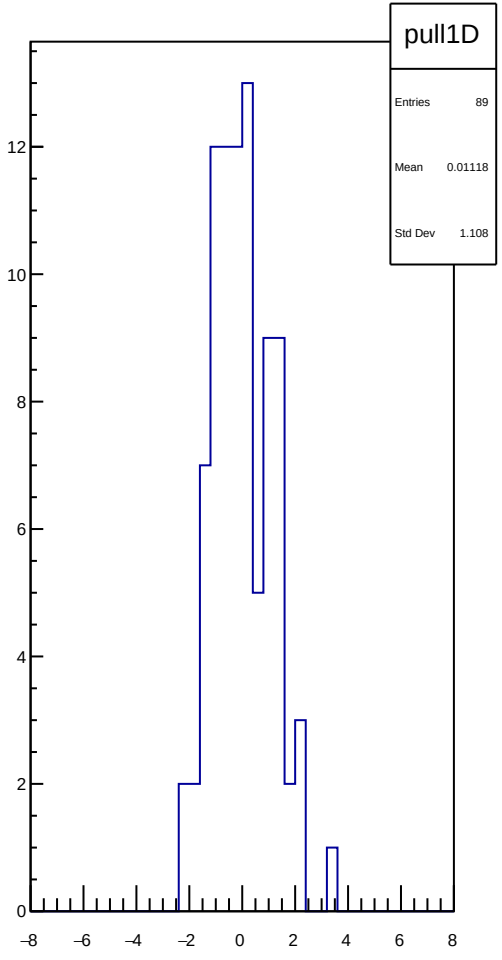

asym_sam_2468_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.673e+05 / 88
p0 0.001132 ± 9.349e−07
0.006
0.005
0.004
0.003
0.002
0.001

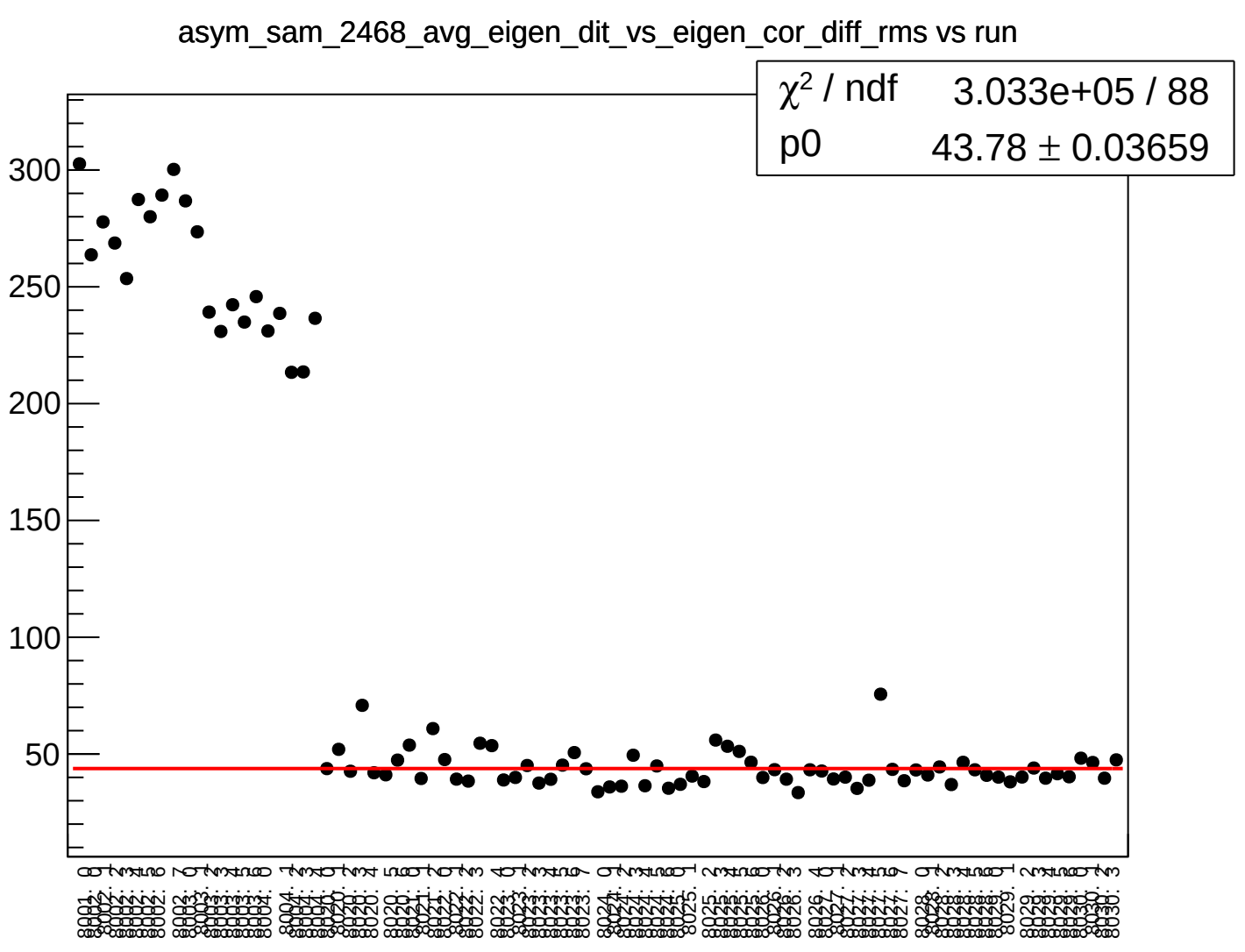

asym_sam_2468_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 109.4 / 88
p0 0.003205 ± 0.05175
pull
Entries 89
Mean 168.9
Std Dev 0

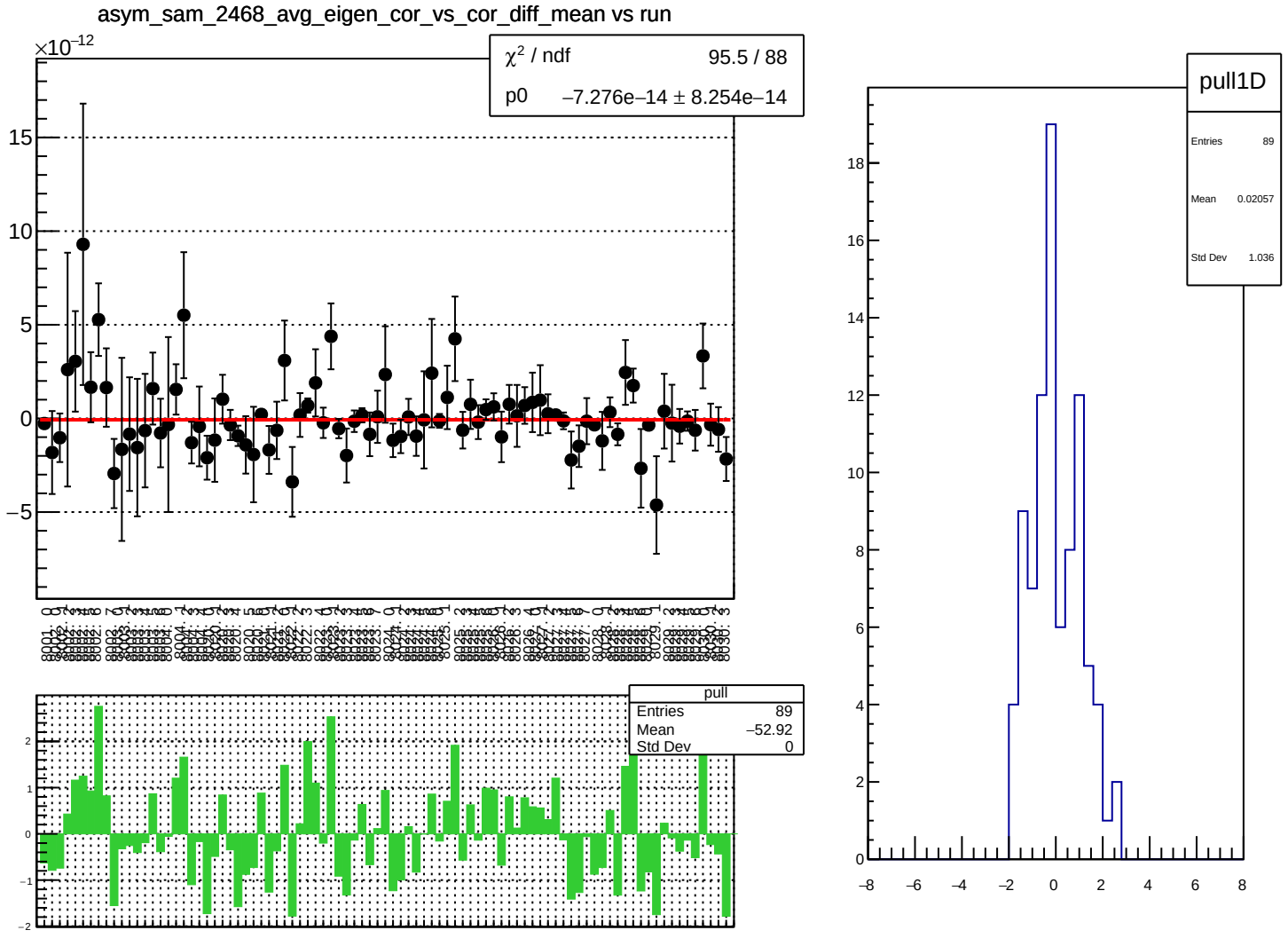

pull1D
Entries 89
Mean 0.01118
Std Dev 1.108

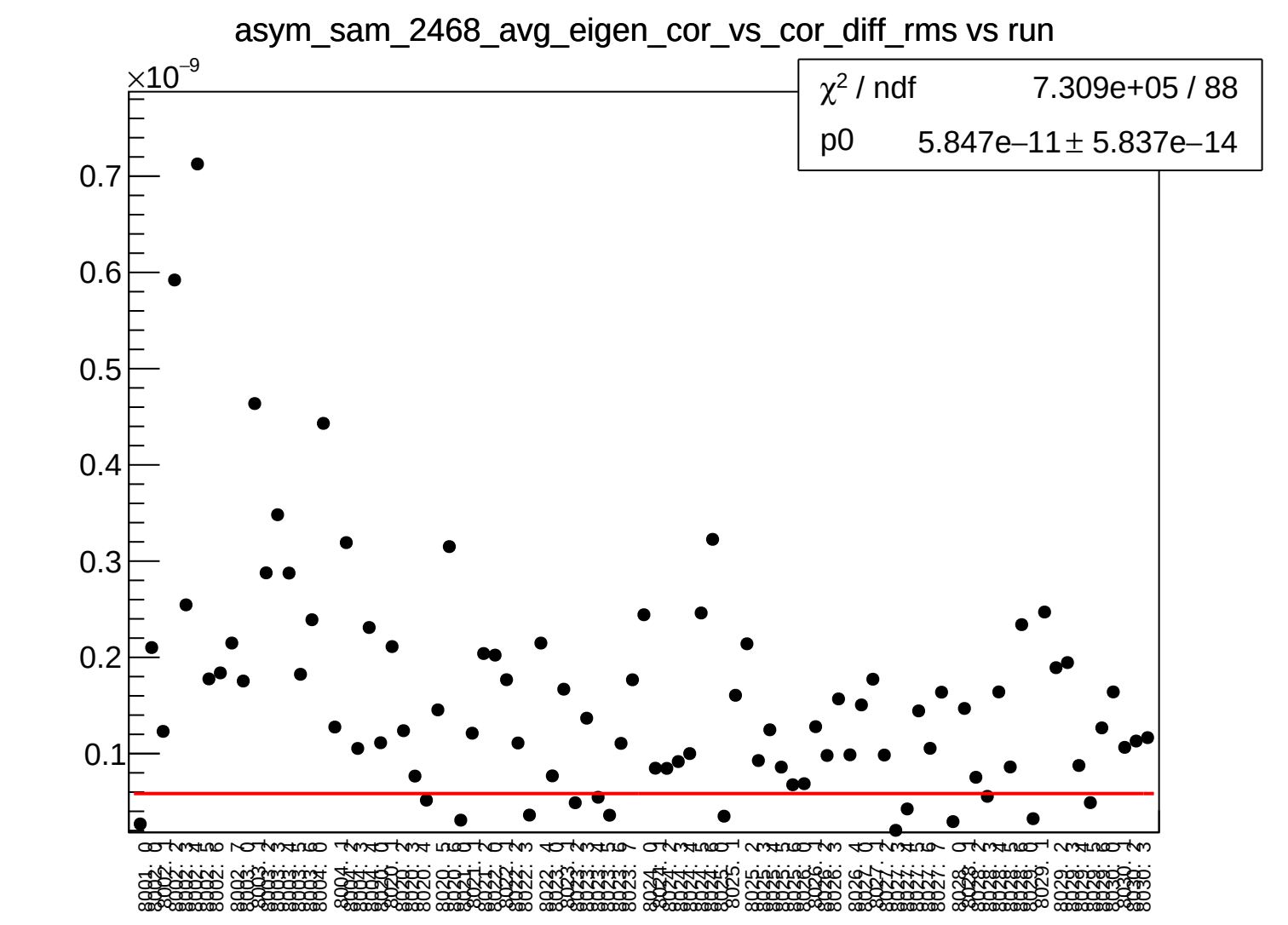

asym_sam_2468_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.033e+05 / 88
p0 43.78 ± 0.03659
300
250
200
150
100
50

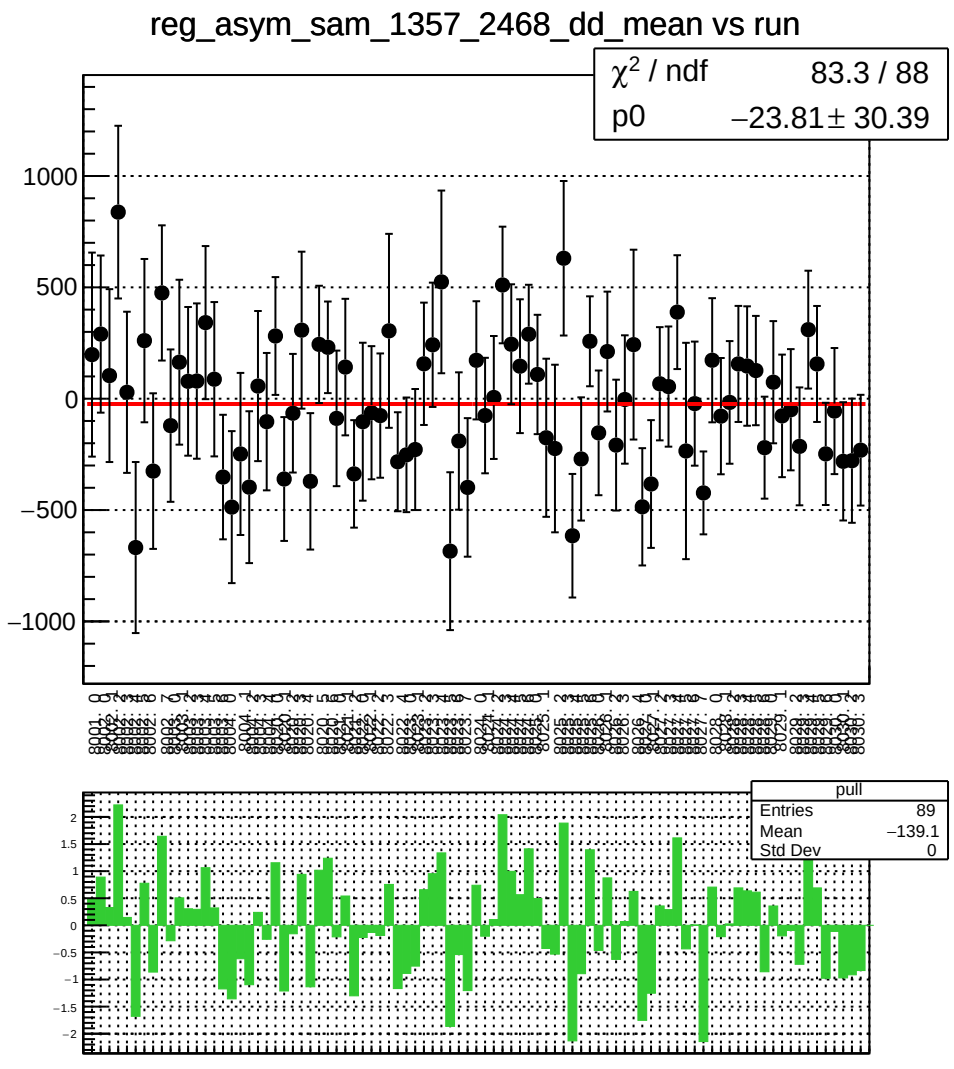

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.4 / 88
p0 0.003205 ± 0.05175
pull
Entries 89
Mean 168.9
Std Dev 0

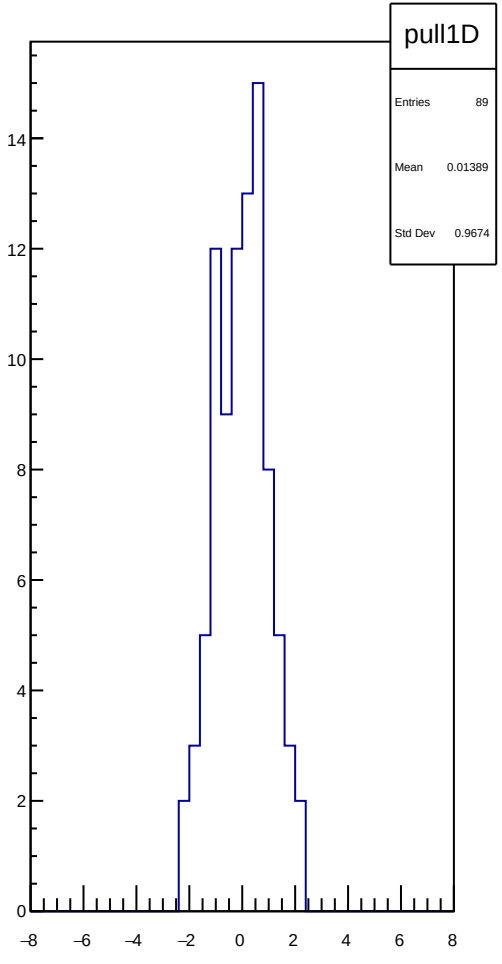

pull1D
Entries 89
Mean 0.01118
Std Dev 1.108

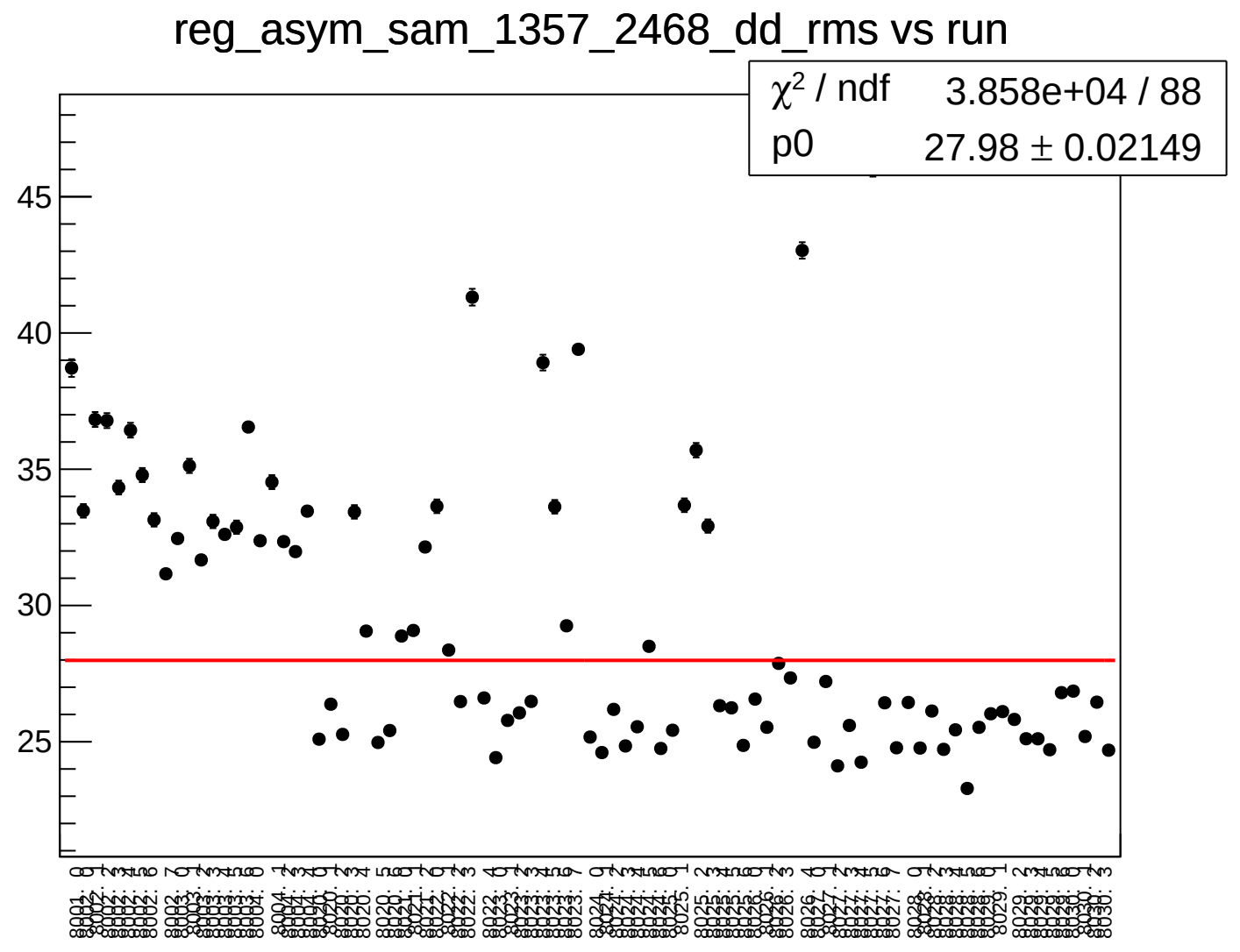

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.033e+05 / 88
p0 43.78 ± 0.03659
300
250
200
150
100
50

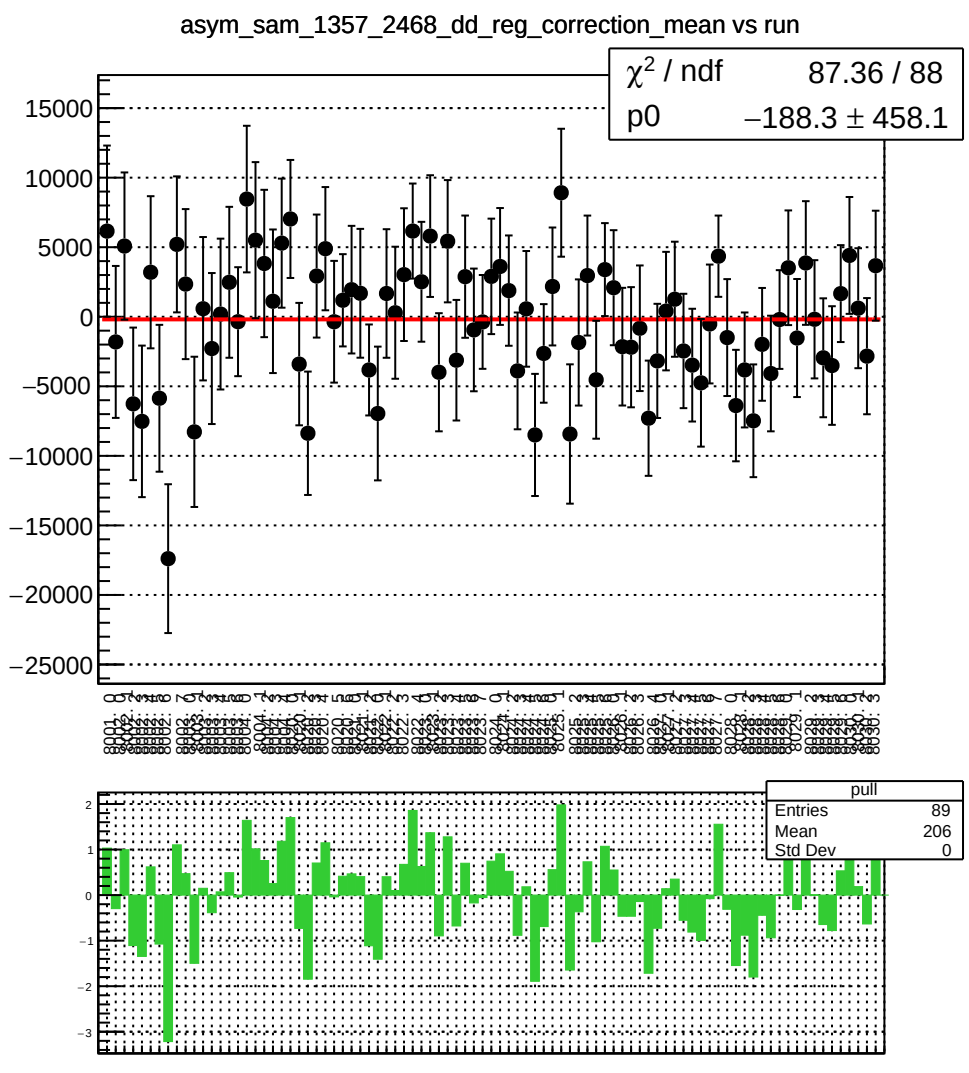

asym_sam_2468_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.5 / 88
p0 −7.276e−14 ± 8.254e−14
pull
Entries 89
Mean −52.92
Std Dev 0
pull1D
Entries 89
Mean 0.02057
Std Dev 1.036

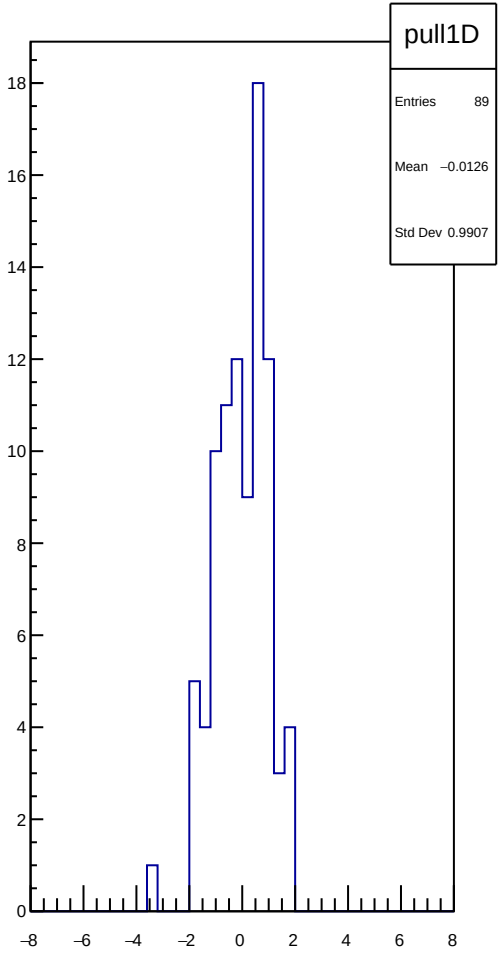

asym_sam_2468_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.309e+05 / 88
p0 5.847e−11 ± 5.837e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

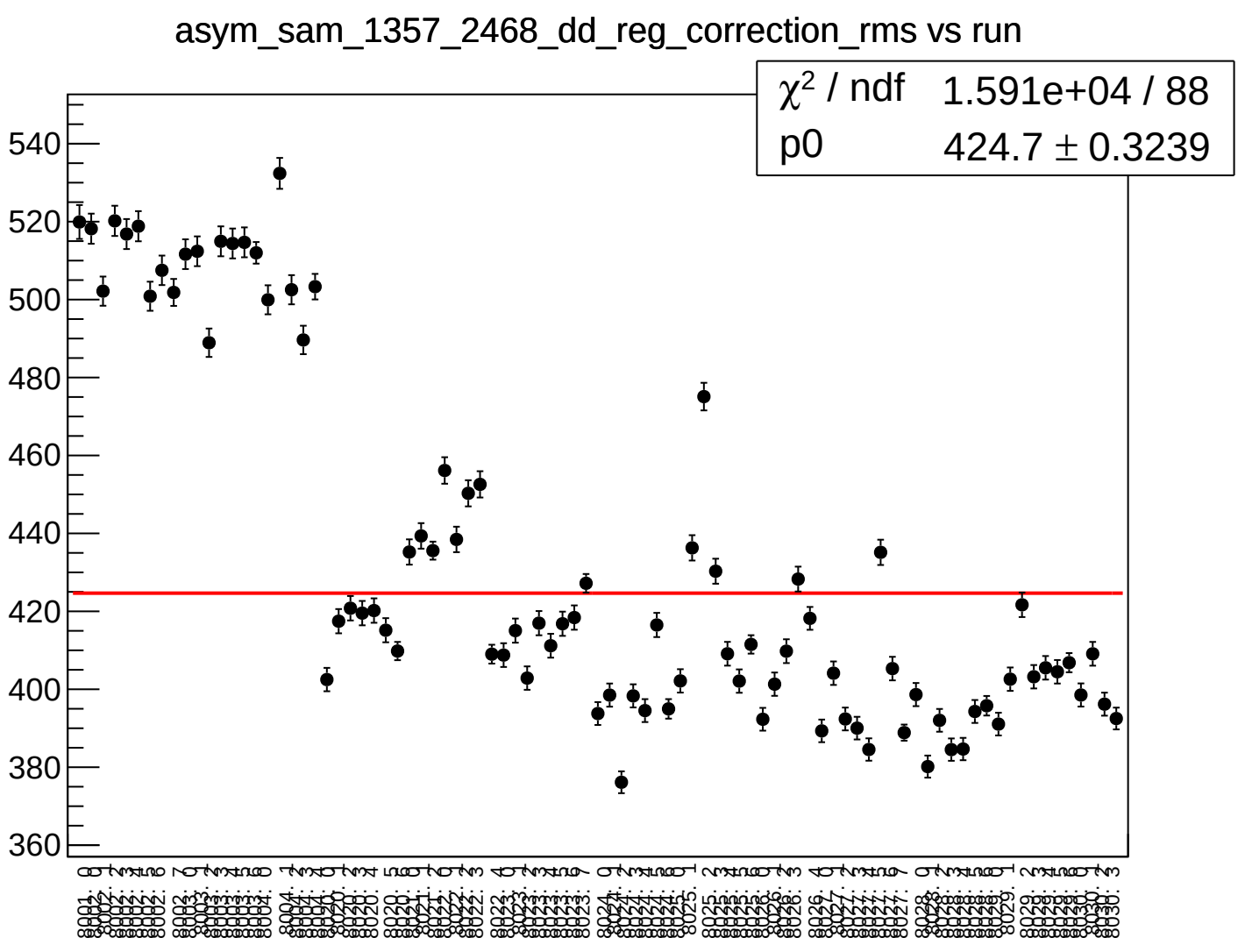

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 83.3 / 88
p0 −23.81 ± 30.39
1000
500
0
−500
−1000
pull
Entries 89
Mean −139.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

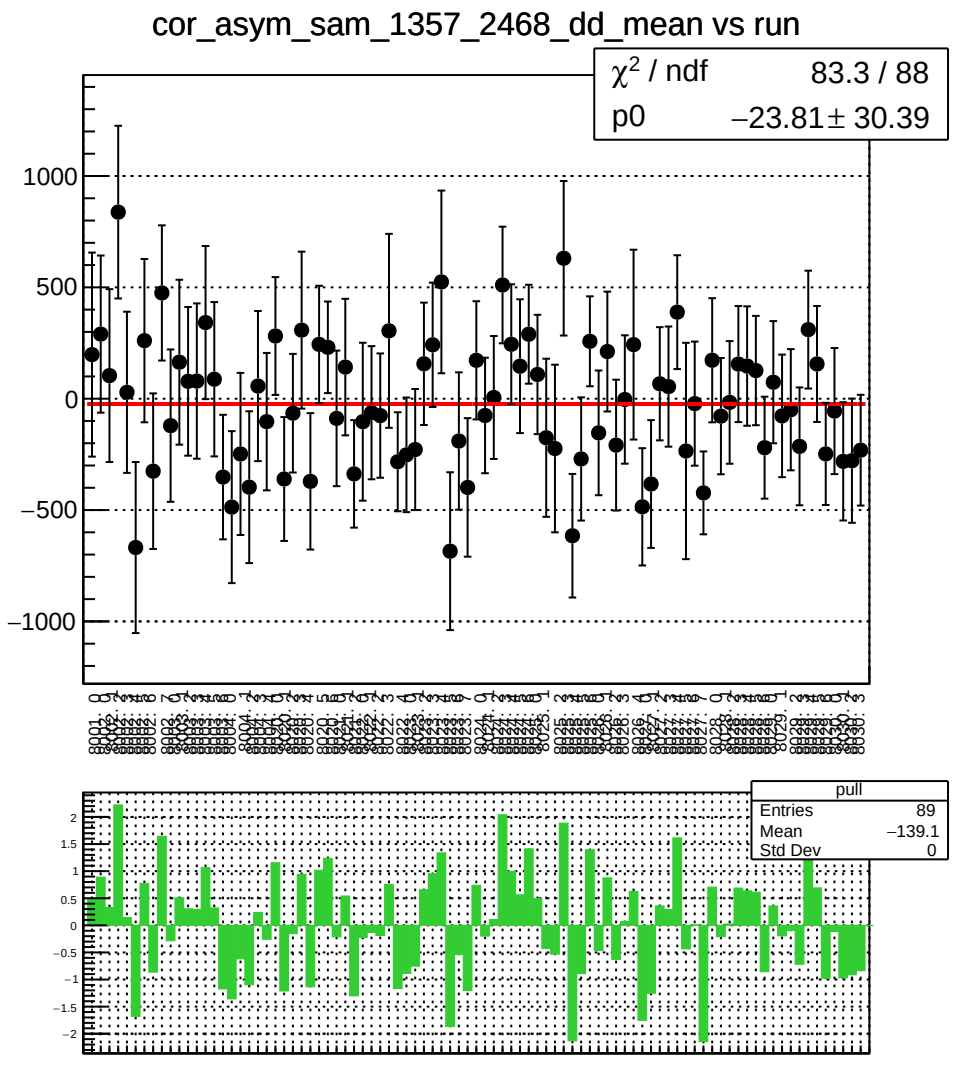

pull1D
Entries 89
Mean 0.01389
Std Dev 0.9674
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

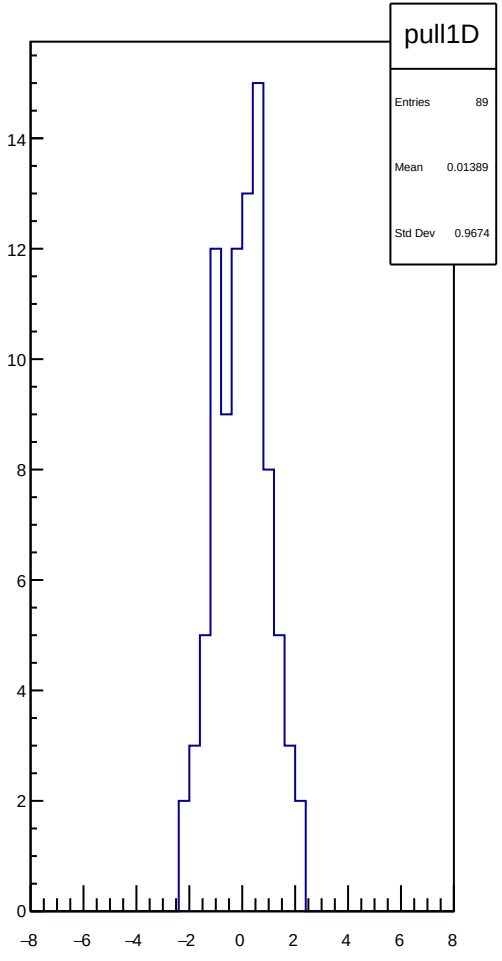

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 3.858e+04 / 88
p0 27.98 ± 0.02149
45
40
35
30
25

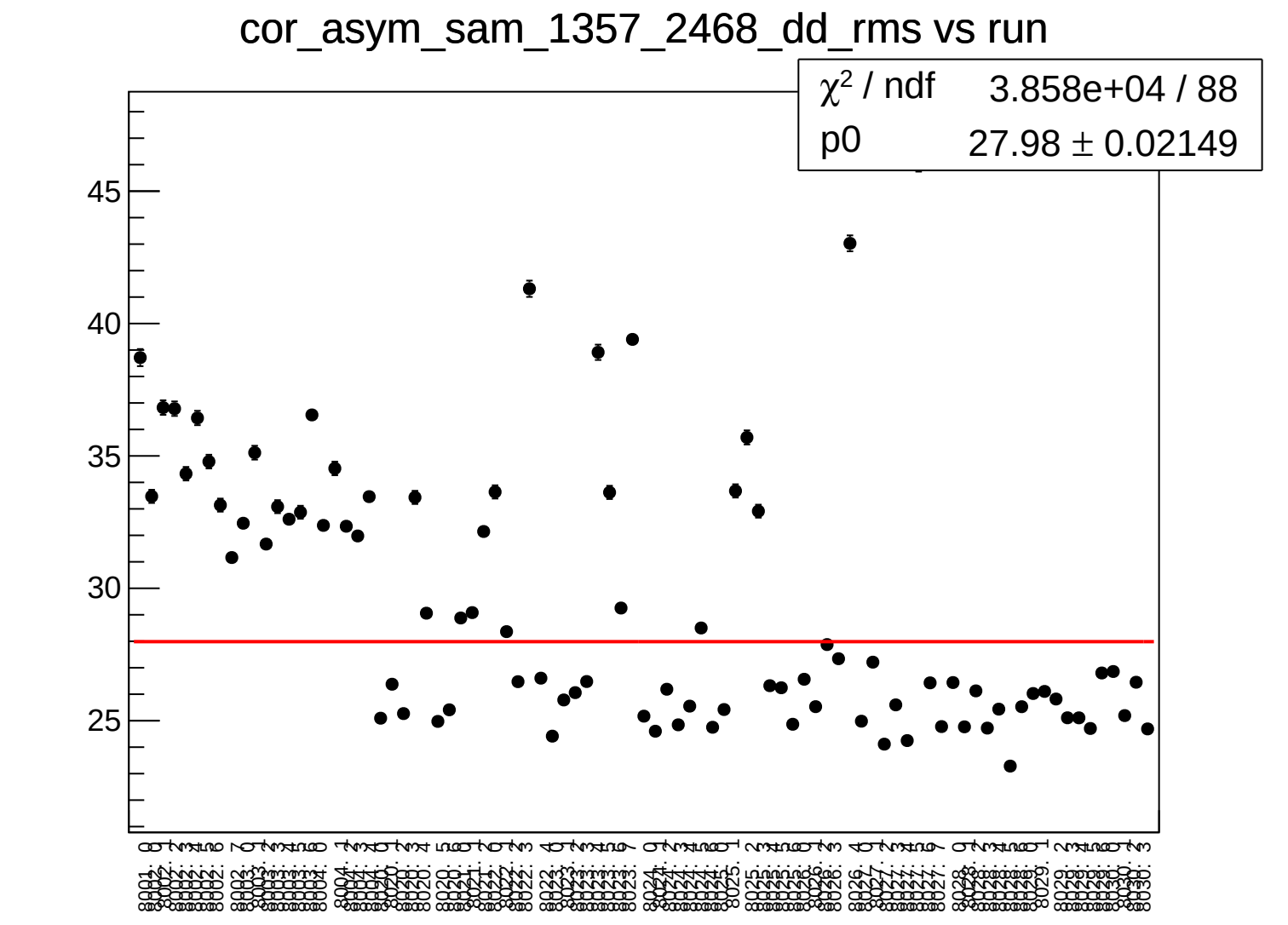

asym_sam_1357_2468_dd_reg_correction_mean vs run
χ² / ndf 87.36 / 88
p0 −188.3 ± 458.1
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 89
Mean 206
Std Dev 0
2
1
0
−1
−2
−3

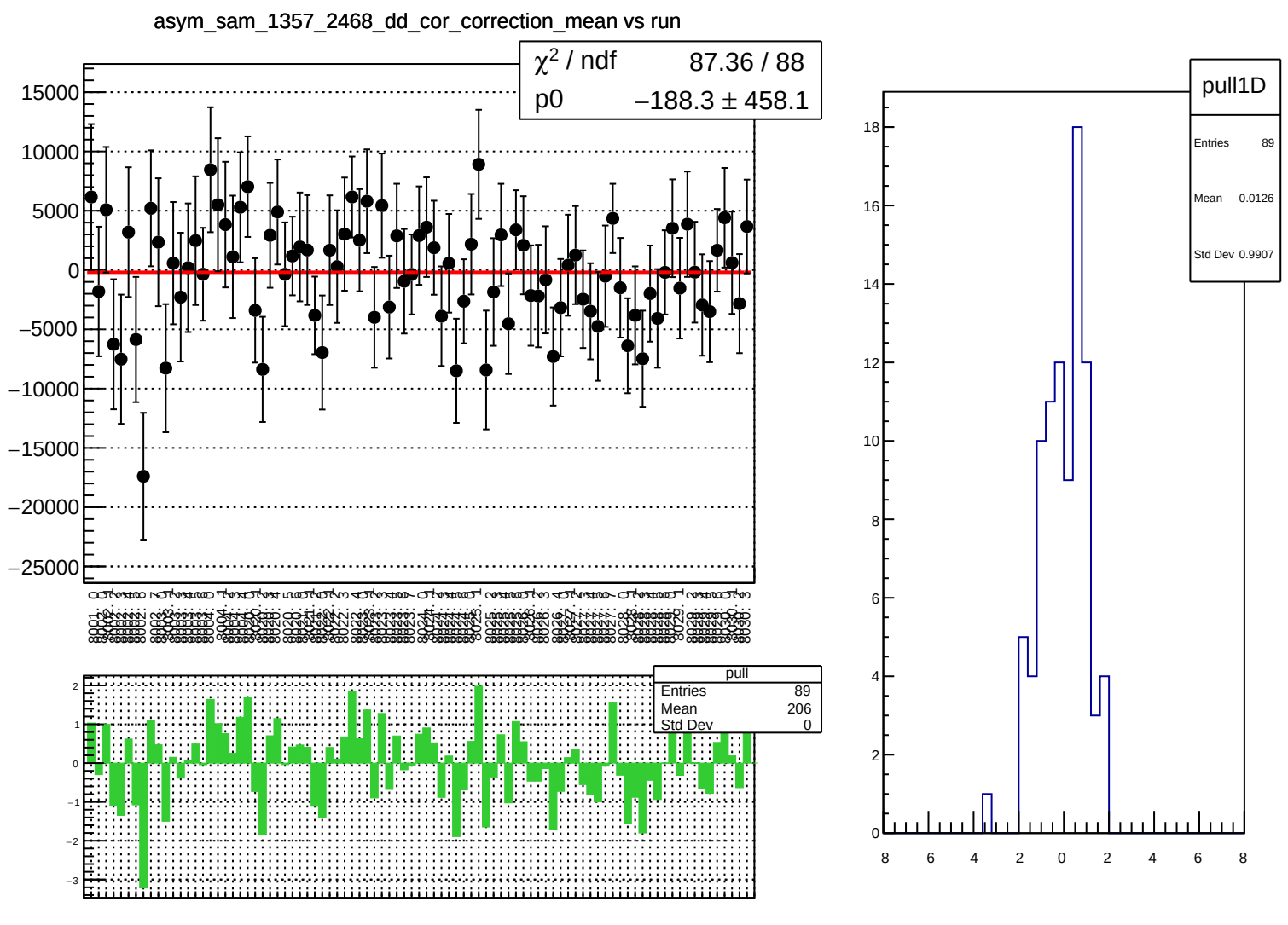

pull1D
Entries 89
Mean −0.0126
Std Dev 0.9907
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

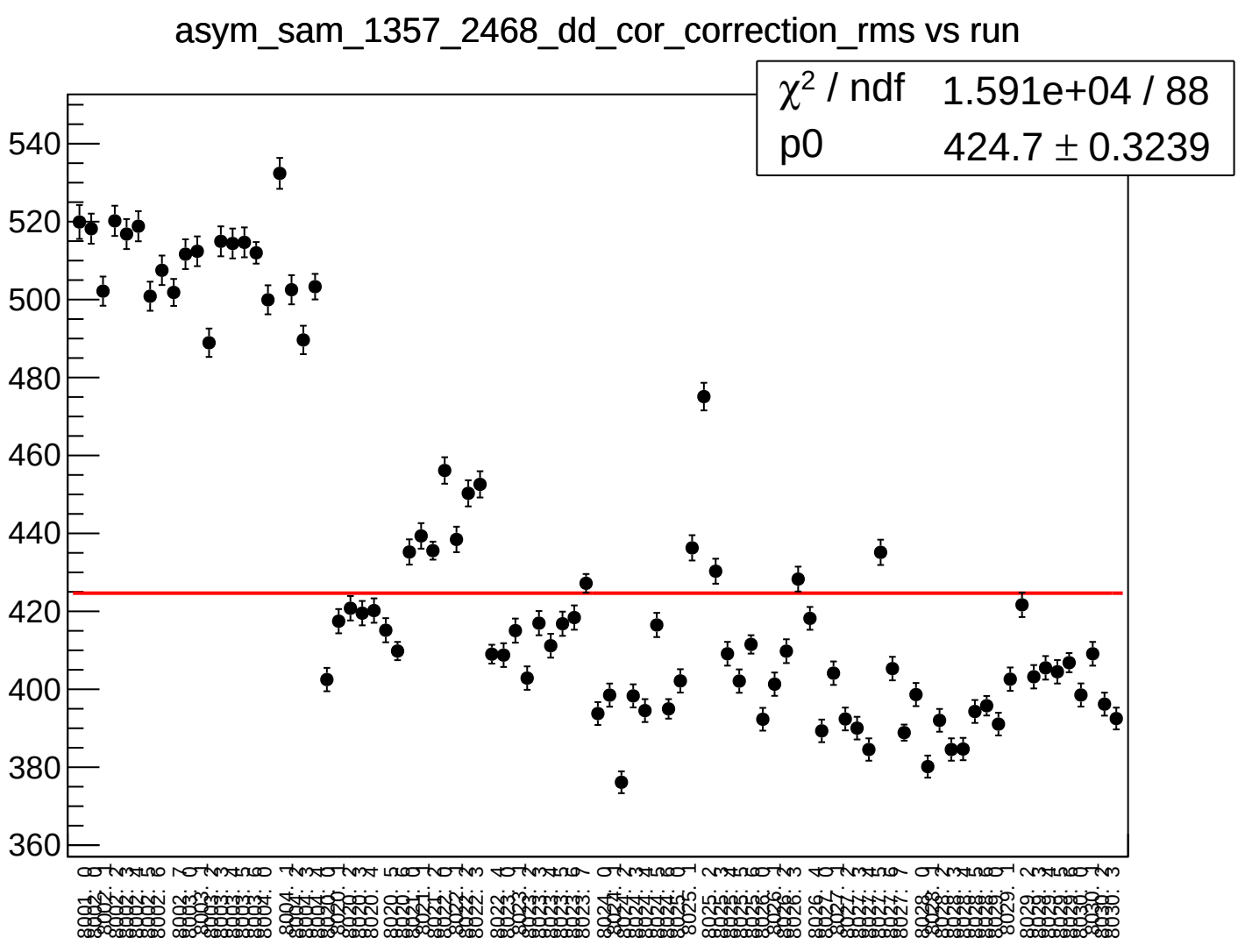

asym_sam_1357_2468_dd_reg_correction_rms vs run
χ² / ndf 1.591e+04 / 88
p0 424.7 ± 0.3239
540
520
500
480
460
440
420
400
380
360

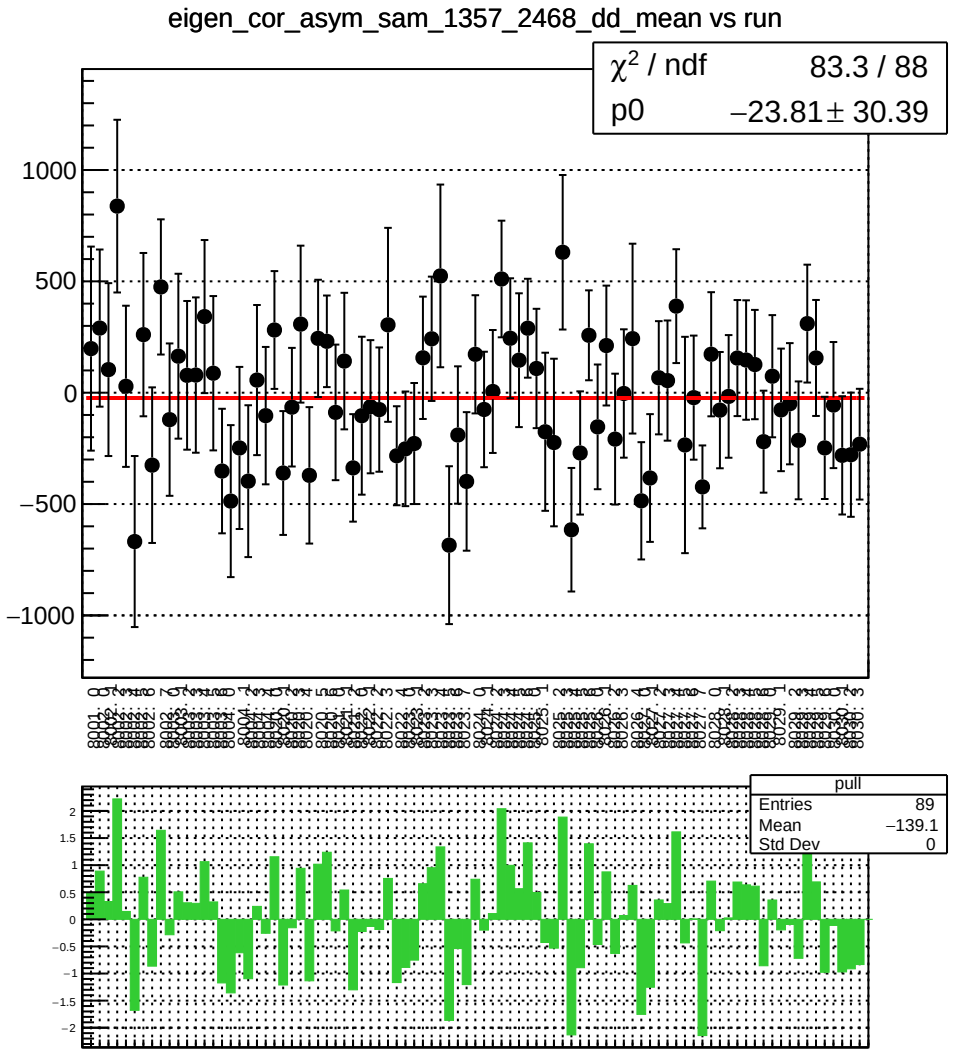

cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 83.3 / 88
p0 −23.81 ± 30.39
1000
500
0
−500
−1000
pull
Entries 89
Mean −139.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

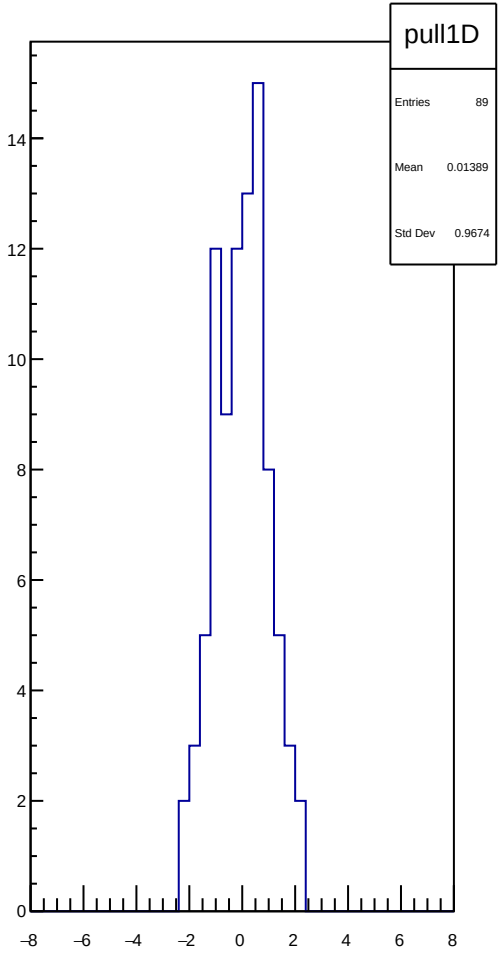

pull1D
Entries 89
Mean 0.01389
Std Dev 0.9674
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

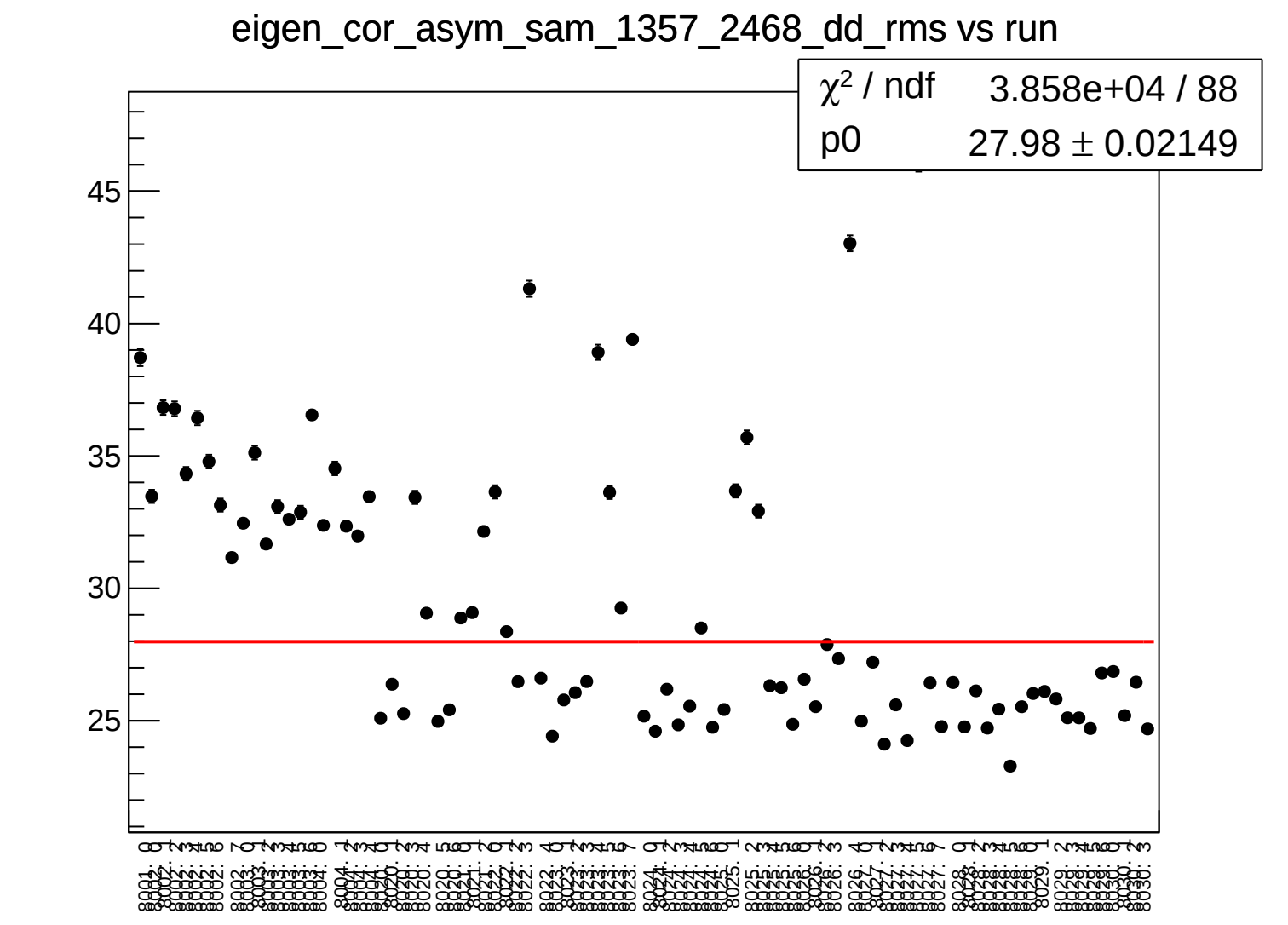

cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 3.858e+04 / 88
p0 27.98 ± 0.02149
45
40
35
30
25

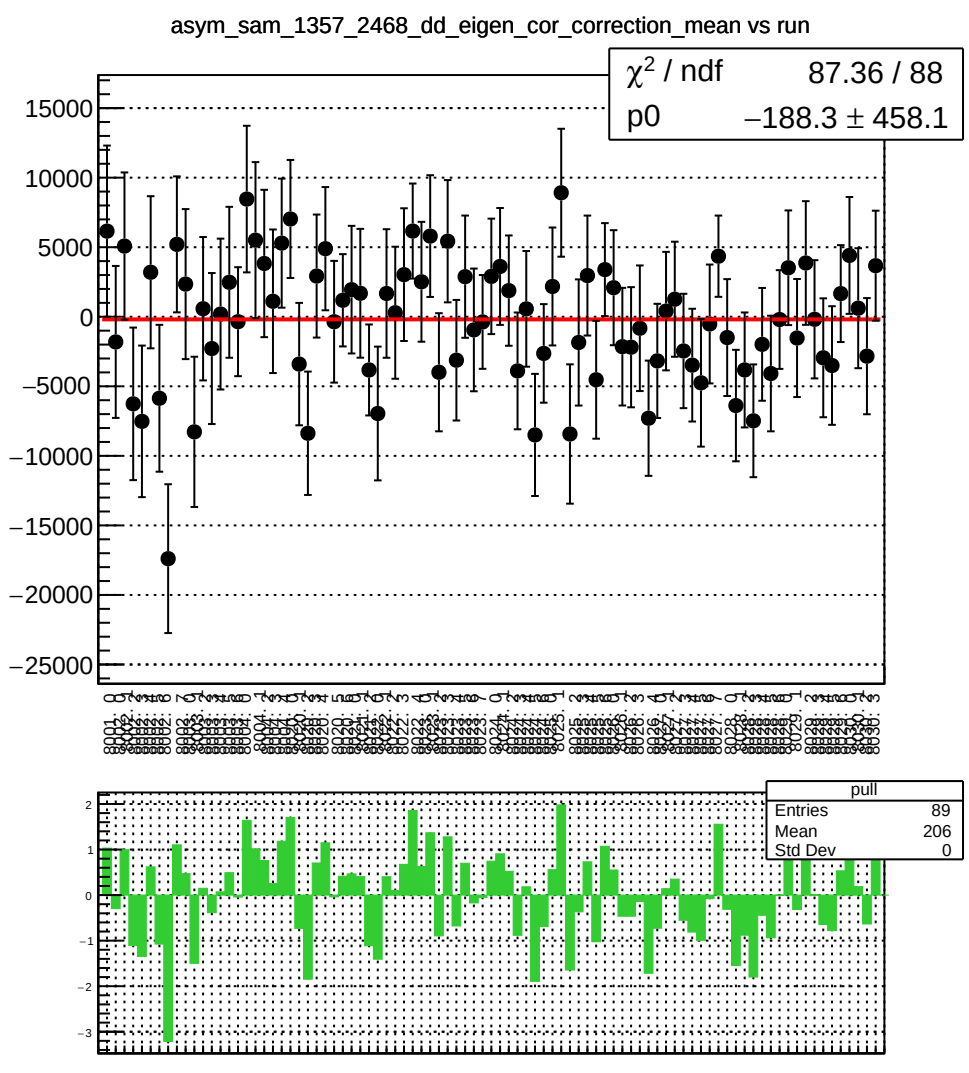

asym_sam_1357_2468_dd_cor_correction_mean vs run
χ² / ndf 87.36 / 88
p0 −188.3 ± 458.1
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 89
Mean 206
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.0126
Std Dev 0.9907
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

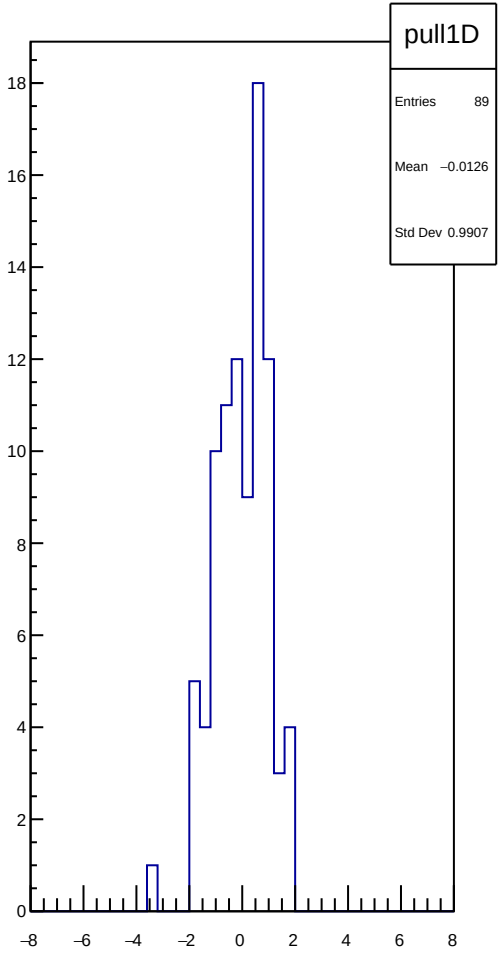

asym_sam_1357_2468_dd_cor_correction_rms vs run
χ² / ndf 1.591e+04 / 88
p0 424.7 ± 0.3239
540
520
500
480
460
440
420
400
380
360

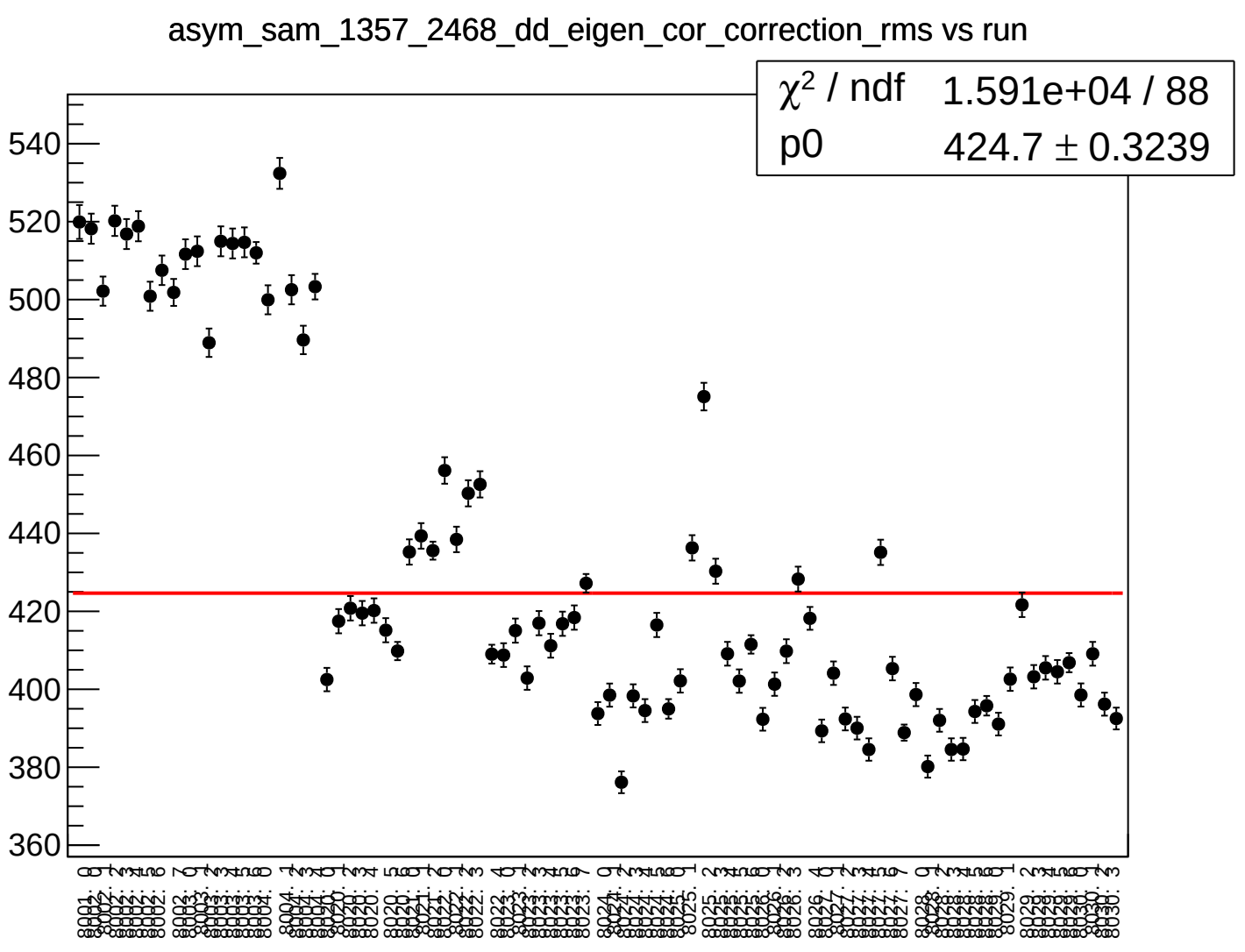

eigen_cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 83.3 / 88
p0 −23.81± 30.39
1000
500
0
−500
−1000
pull
Entries 89
Mean −139.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

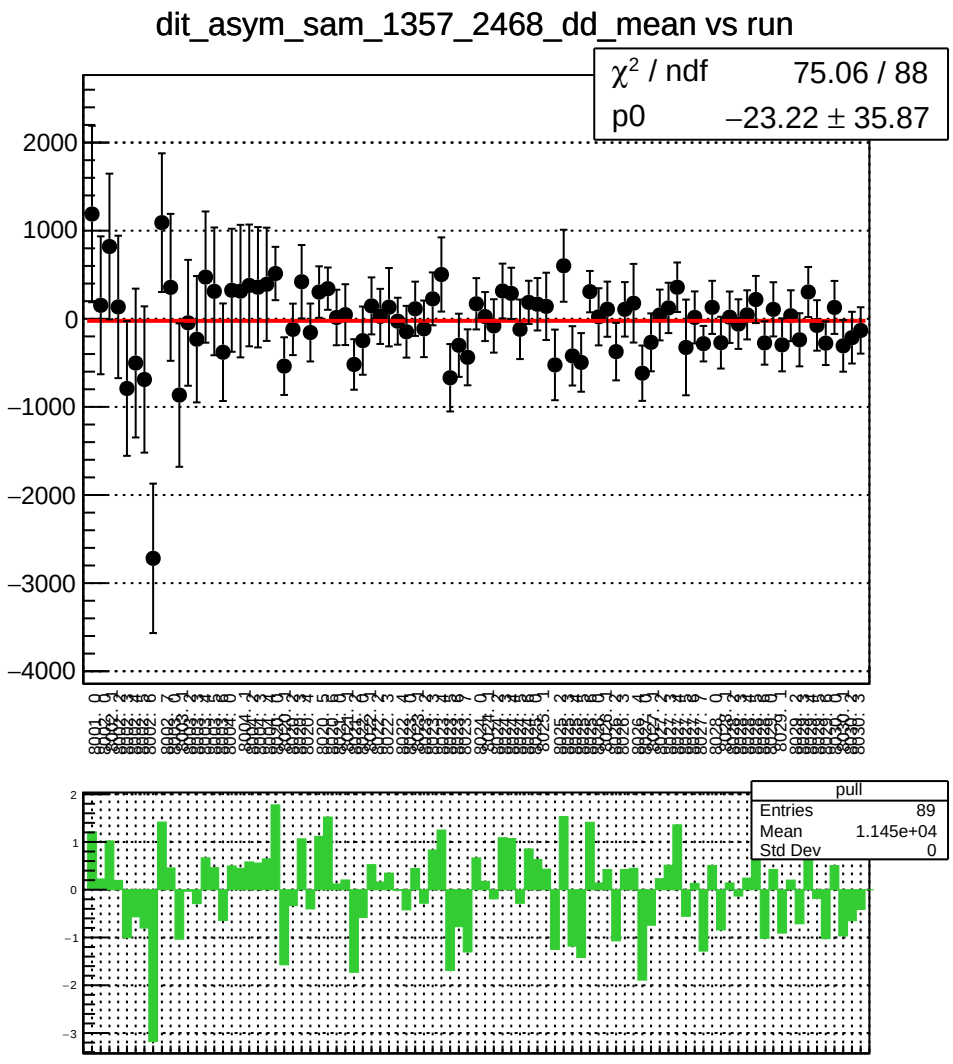

pull1D
Entries 89
Mean 0.01389
Std Dev 0.9674
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

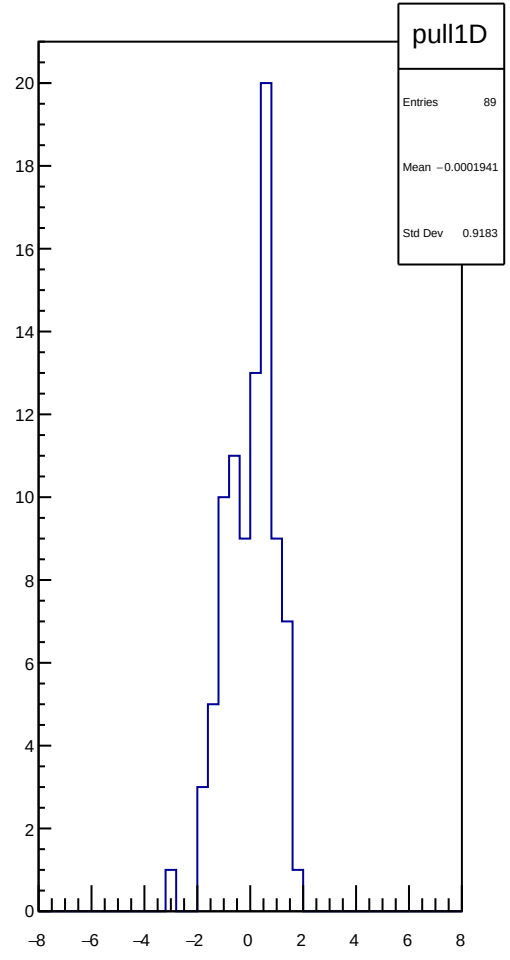

eigen_cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 3.858e+04 / 88
p0 27.98 ± 0.02149
45
40
35
30
25

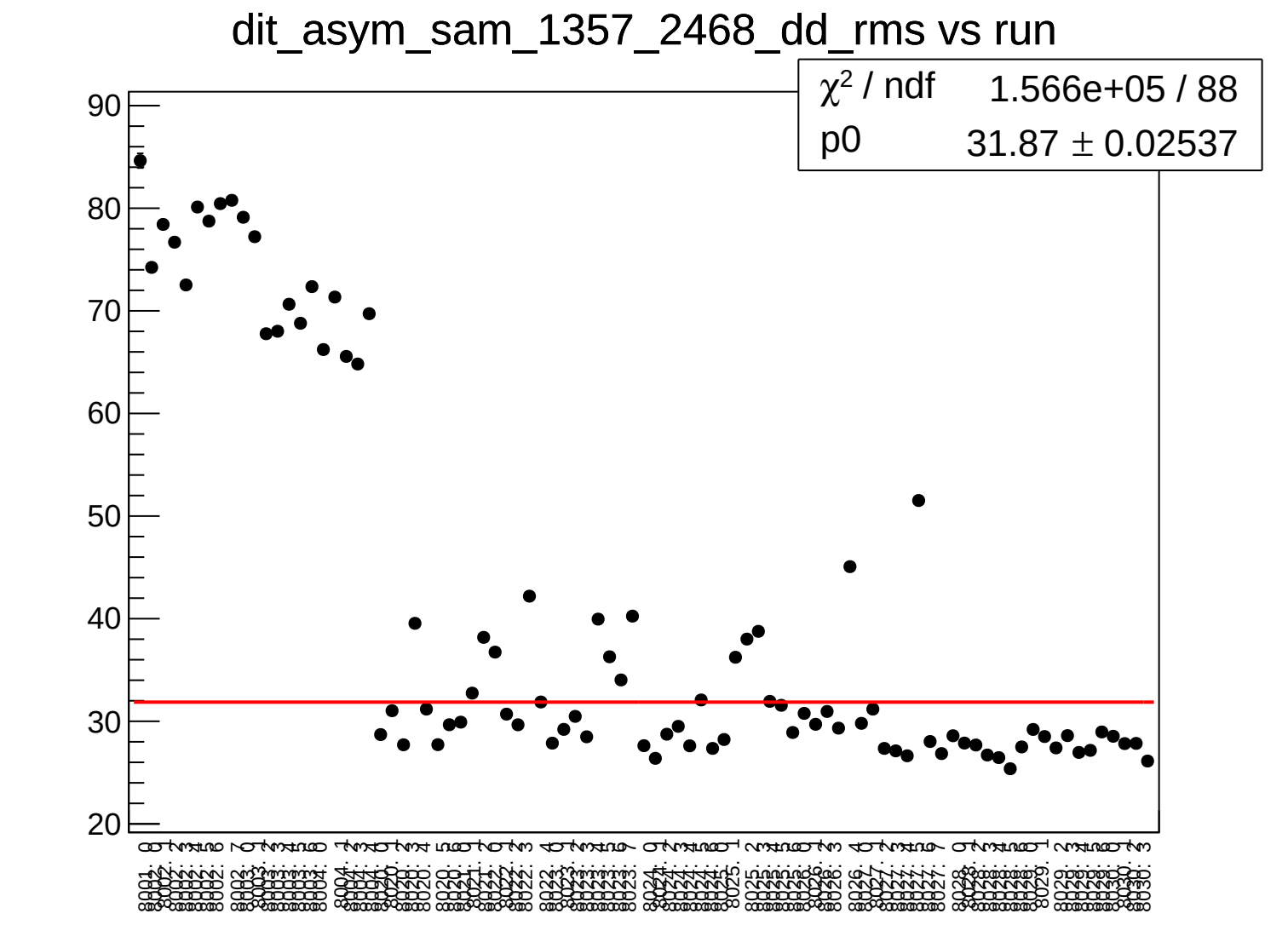

asym_sam_1357_2468_dd_eigen_cor_correction_mean vs run
χ² / ndf 87.36 / 88
p0 −188.3 ± 458.1
pull
Entries 89
Mean 206
Std Dev 0

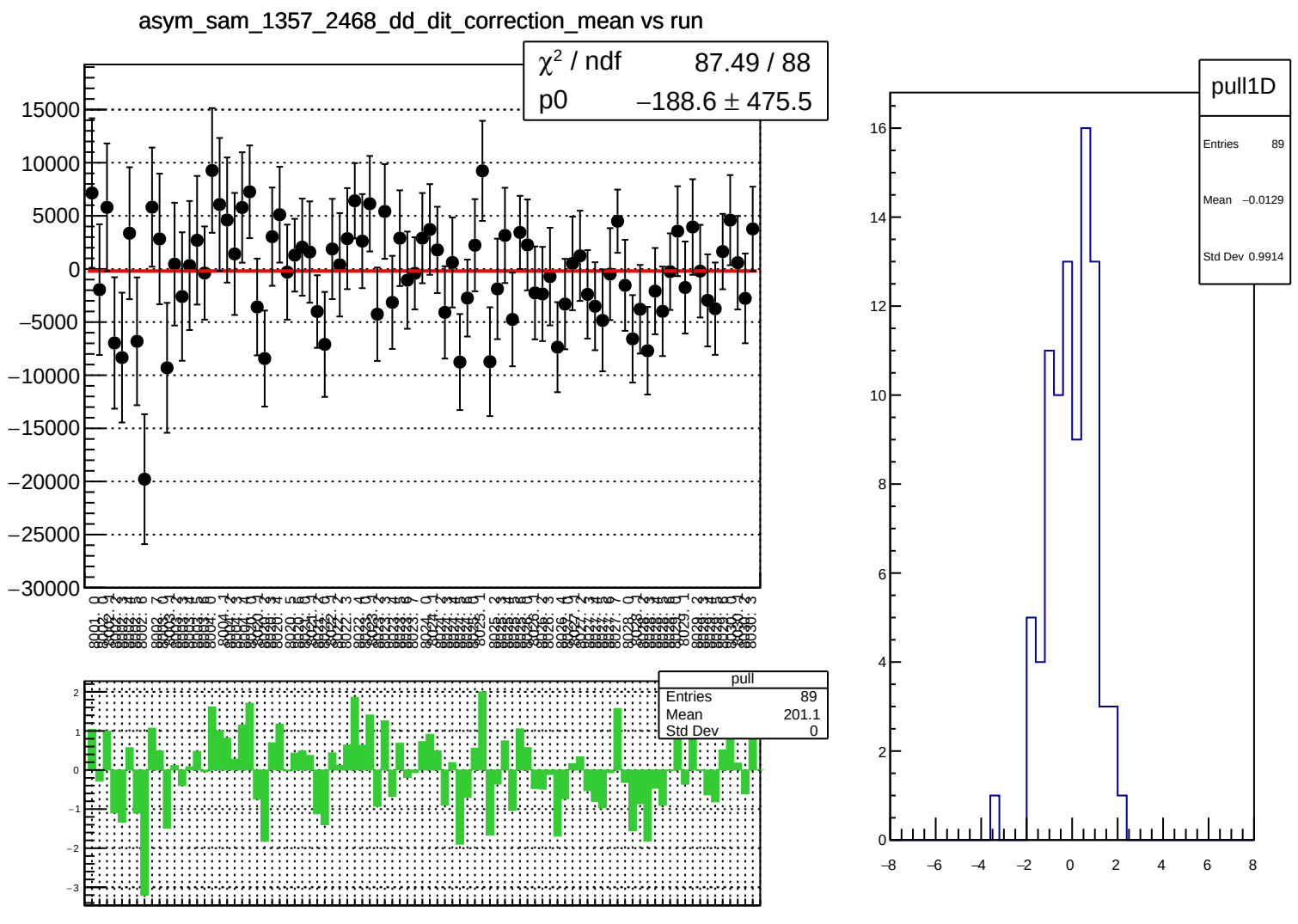

pull1D
Entries 89
Mean −0.0126
Std Dev 0.9907

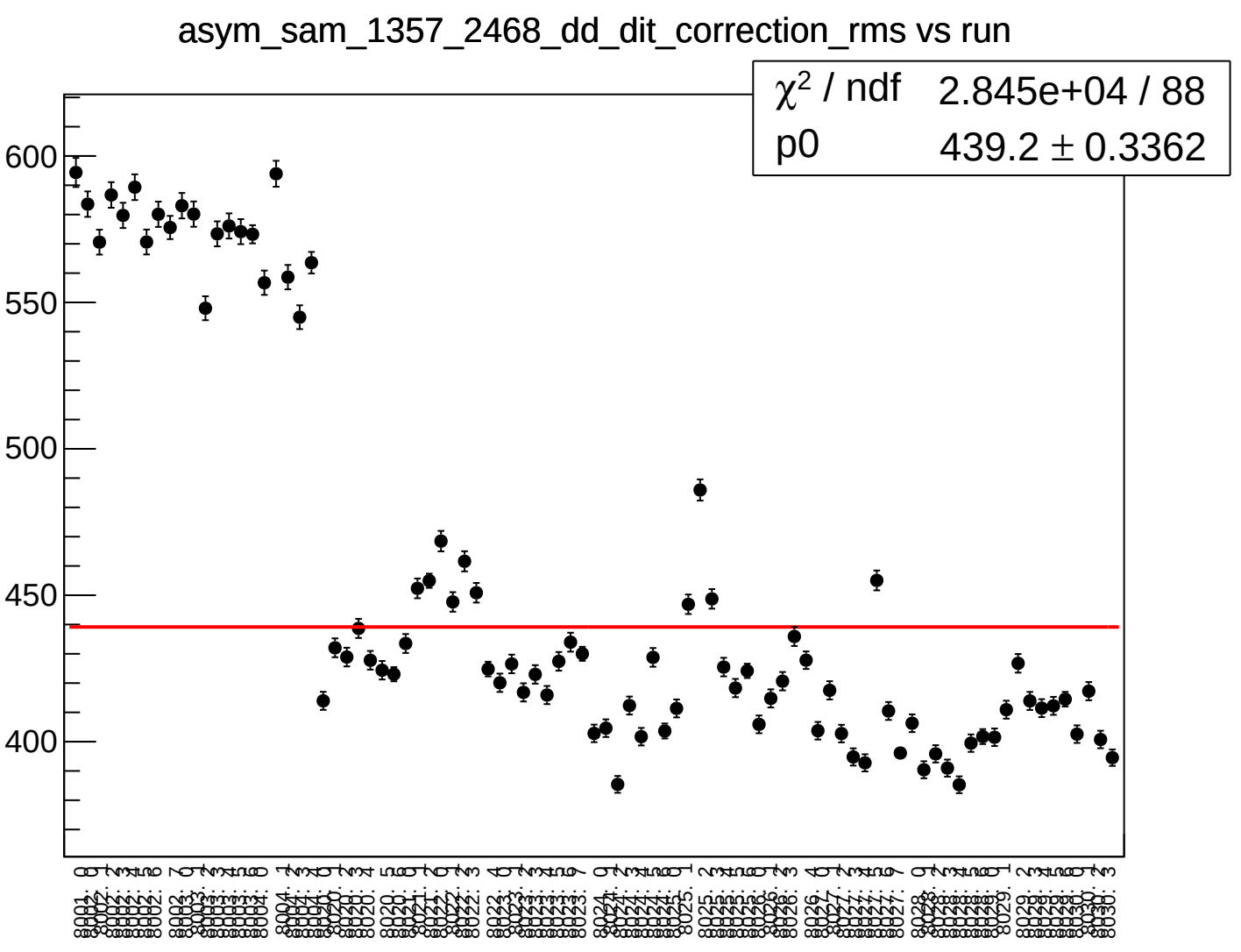

asym_sam_1357_2468_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.591e+04 / 88
p0 424.7 ± 0.3239
540
520
500
480
460
440
420
400
380
360

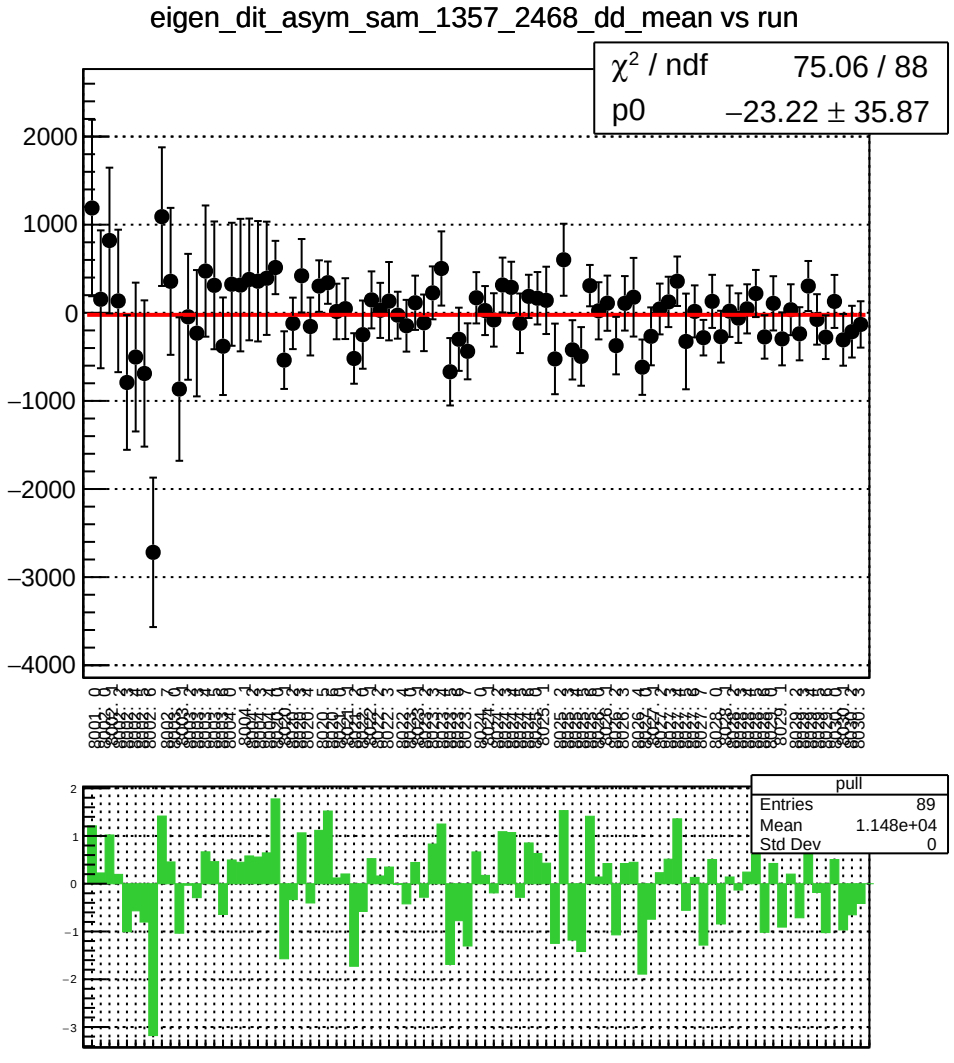

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 75.06 / 88
p0 −23.22 ± 35.87
pull
Entries 89
Mean 1.145e+04
Std Dev 0

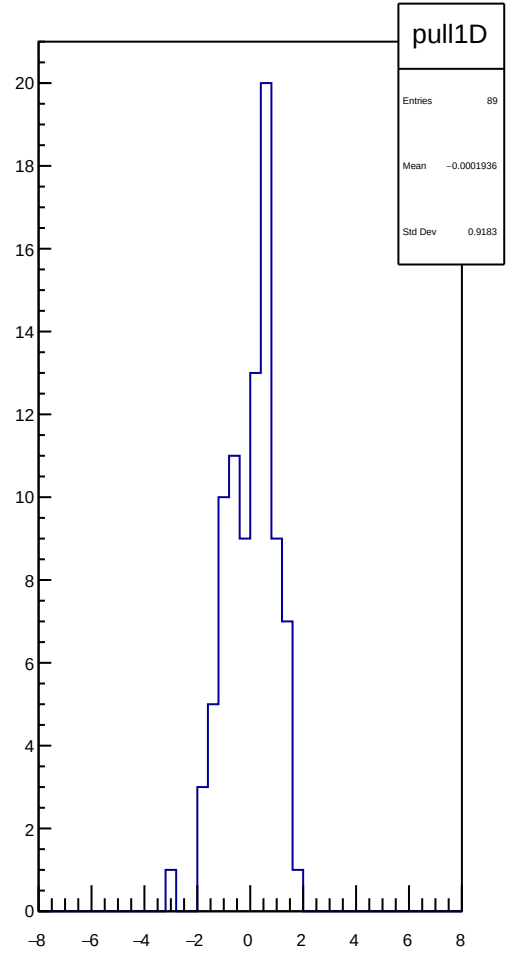

pull1D
Entries 89
Mean −0.0001941
Std Dev 0.9183

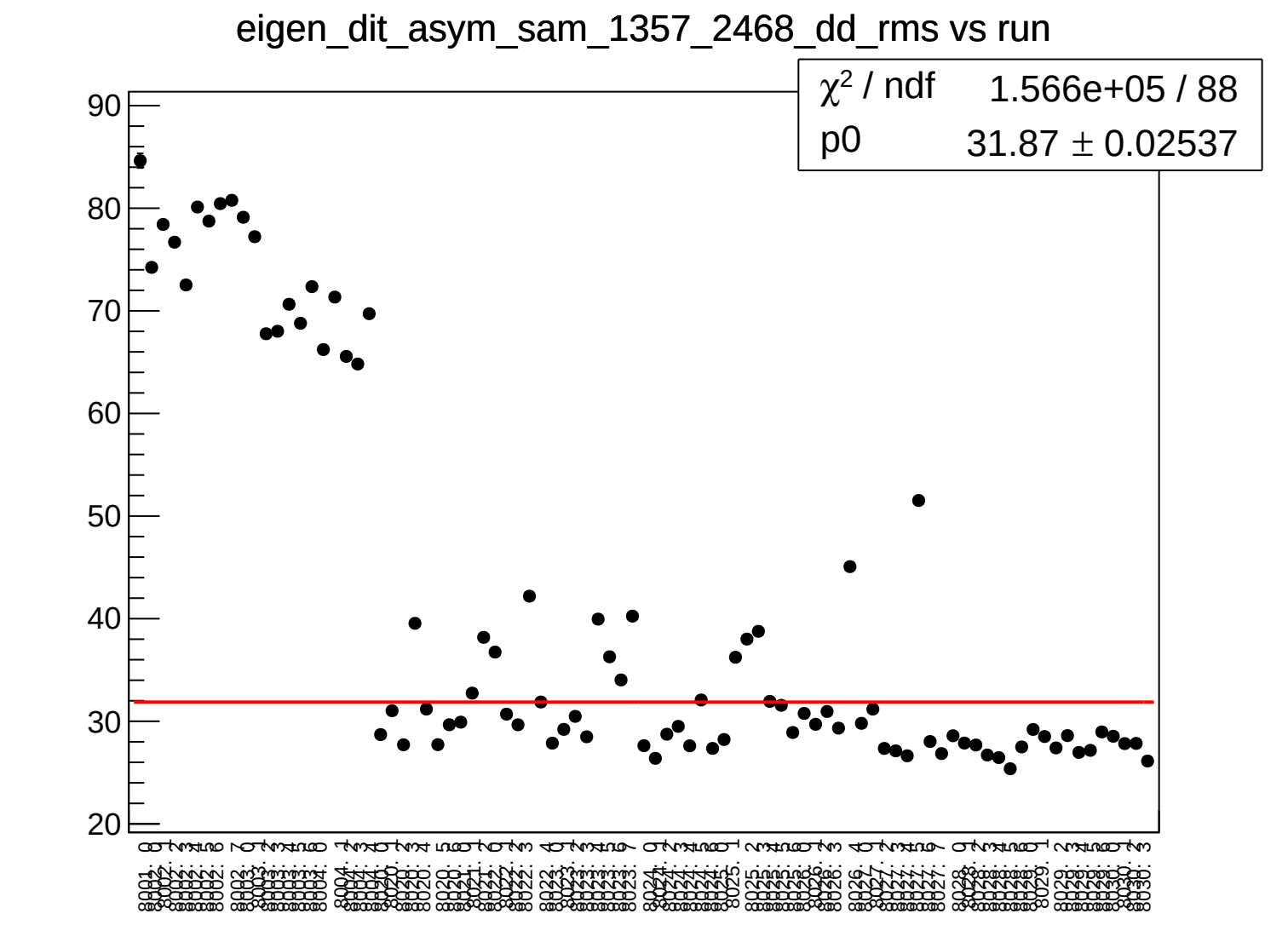

dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.566e+05 / 88
p0 31.87 ± 0.02537
90
80
70
60
50
40
30
20

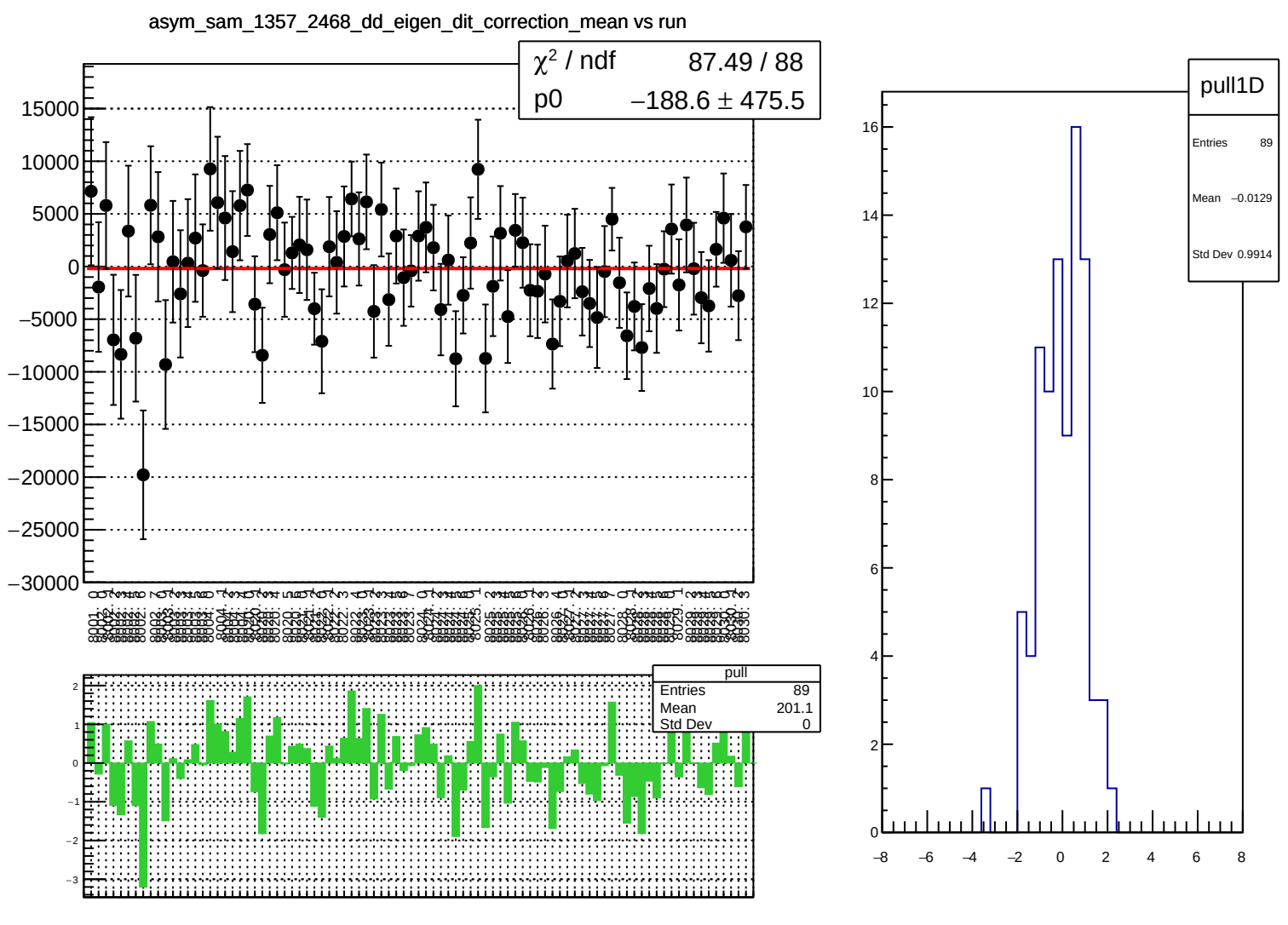

asym_sam_1357_2468_dd_dit_correction_mean vs run
χ² / ndf 87.49 / 88
p0 −188.6 ± 475.5
pull
Entries 89
Mean 201.1
Std Dev 0
pull1D
Entries 89
Mean −0.0129
Std Dev 0.9914

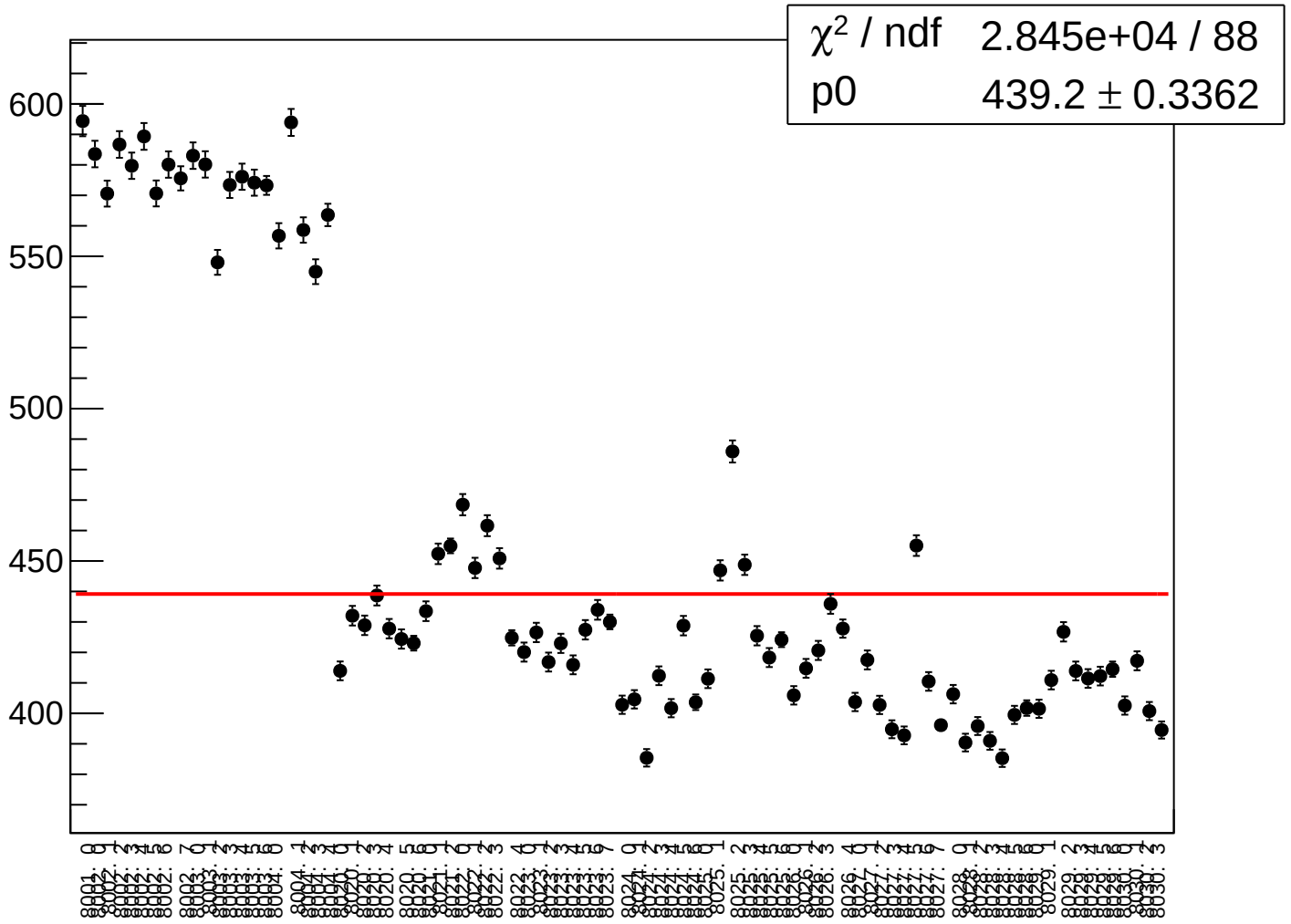

asym_sam_1357_2468_dd_dit_correction_rms vs run
χ² / ndf 2.845e+04 / 88
p0 439.2 ± 0.3362
600
550
500
450
400

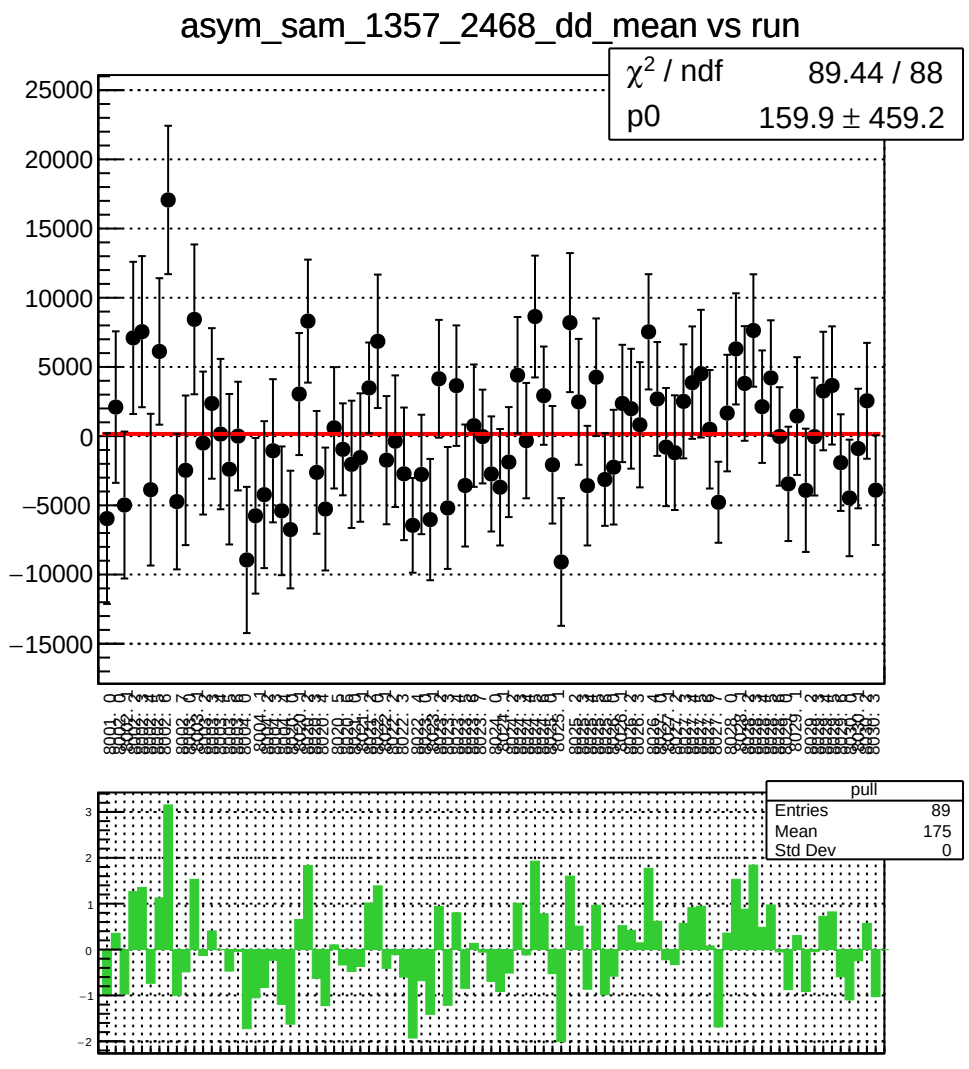

eigen_dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 75.06 / 88
p0 −23.22 ± 35.87
pull
Entries 89
Mean 1.148e+04
Std Dev 0

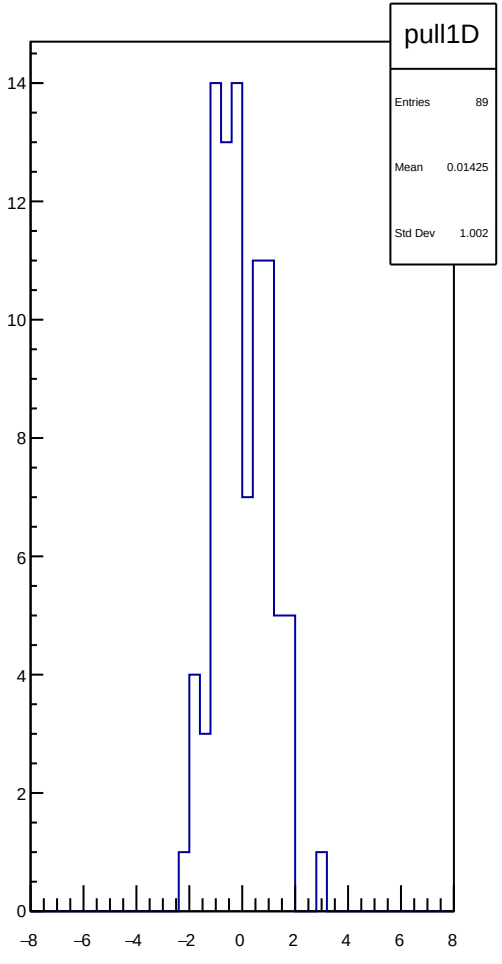

pull1D
Entries 89
Mean −0.0001936
Std Dev 0.9183

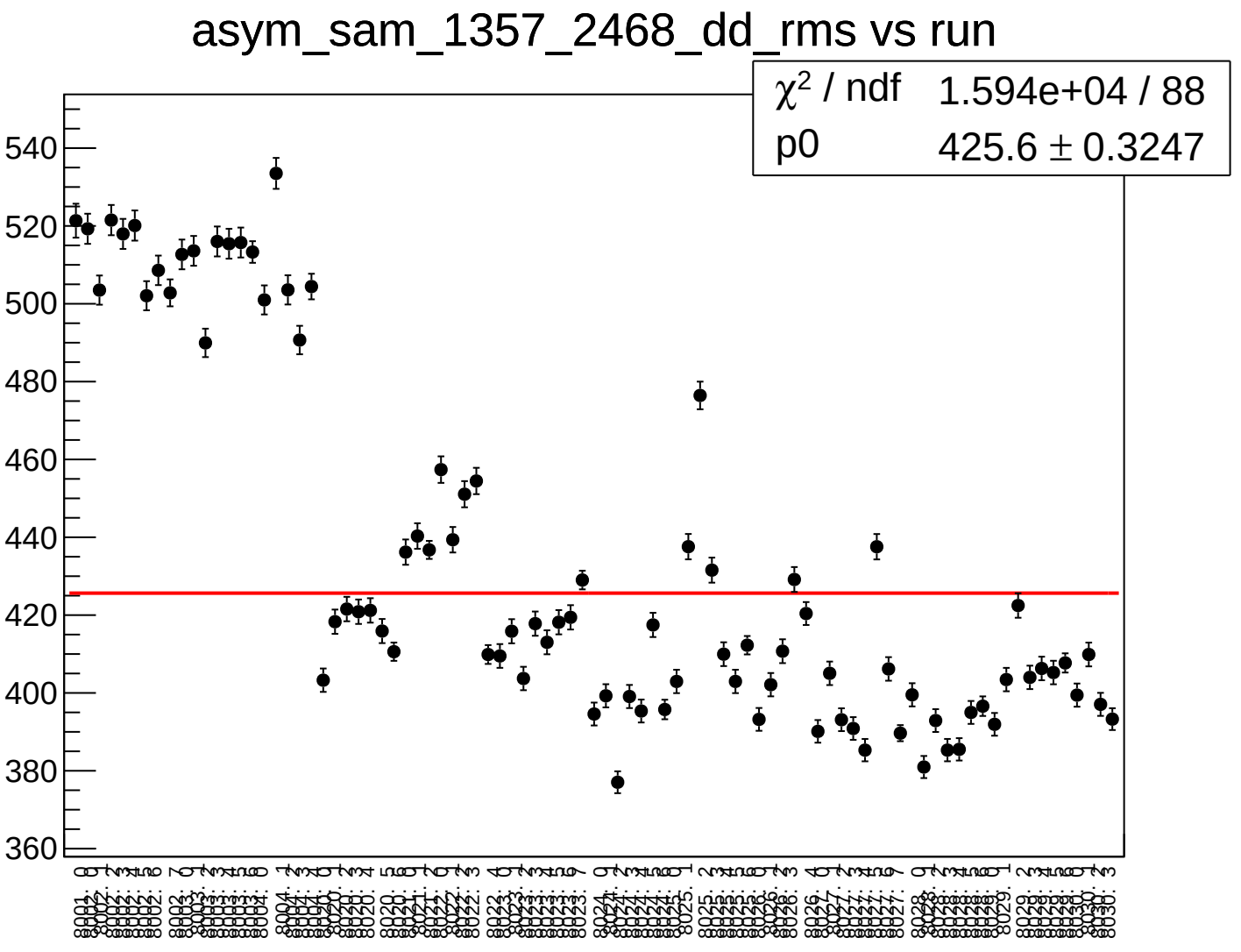

eigen_dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.566e+05 / 88
p0 31.87 ± 0.02537
90
80
70
60
50
40
30
20

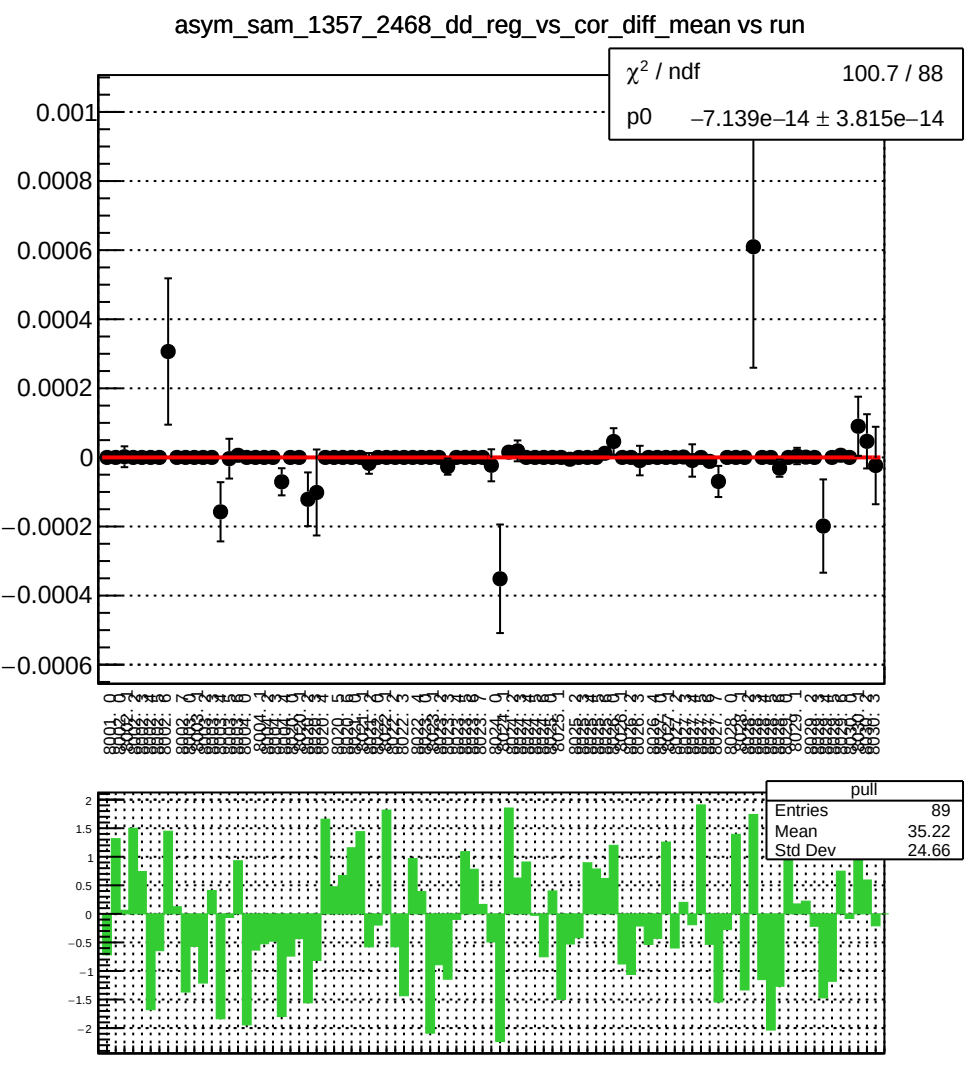

asym_sam_1357_2468_dd_eigen_dit_correction_mean vs run
χ² / ndf 87.49 / 88
p0 −188.6 ± 475.5
pull
Entries 89
Mean 201.1
Std Dev 0
pull1D
Entries 89
Mean −0.0129
Std Dev 0.9914

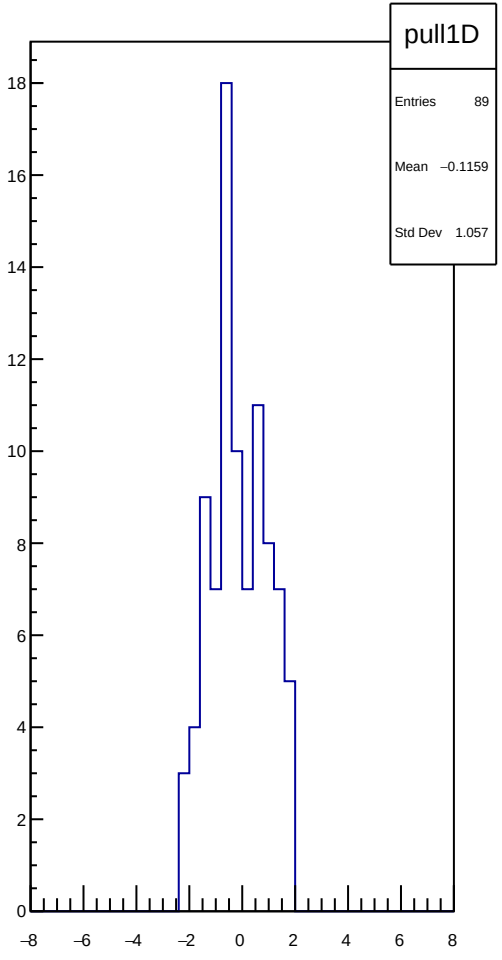

asym_sam_1357_2468_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.845e+04 / 88
p0 439.2 ± 0.3362
600
550
500
450
400

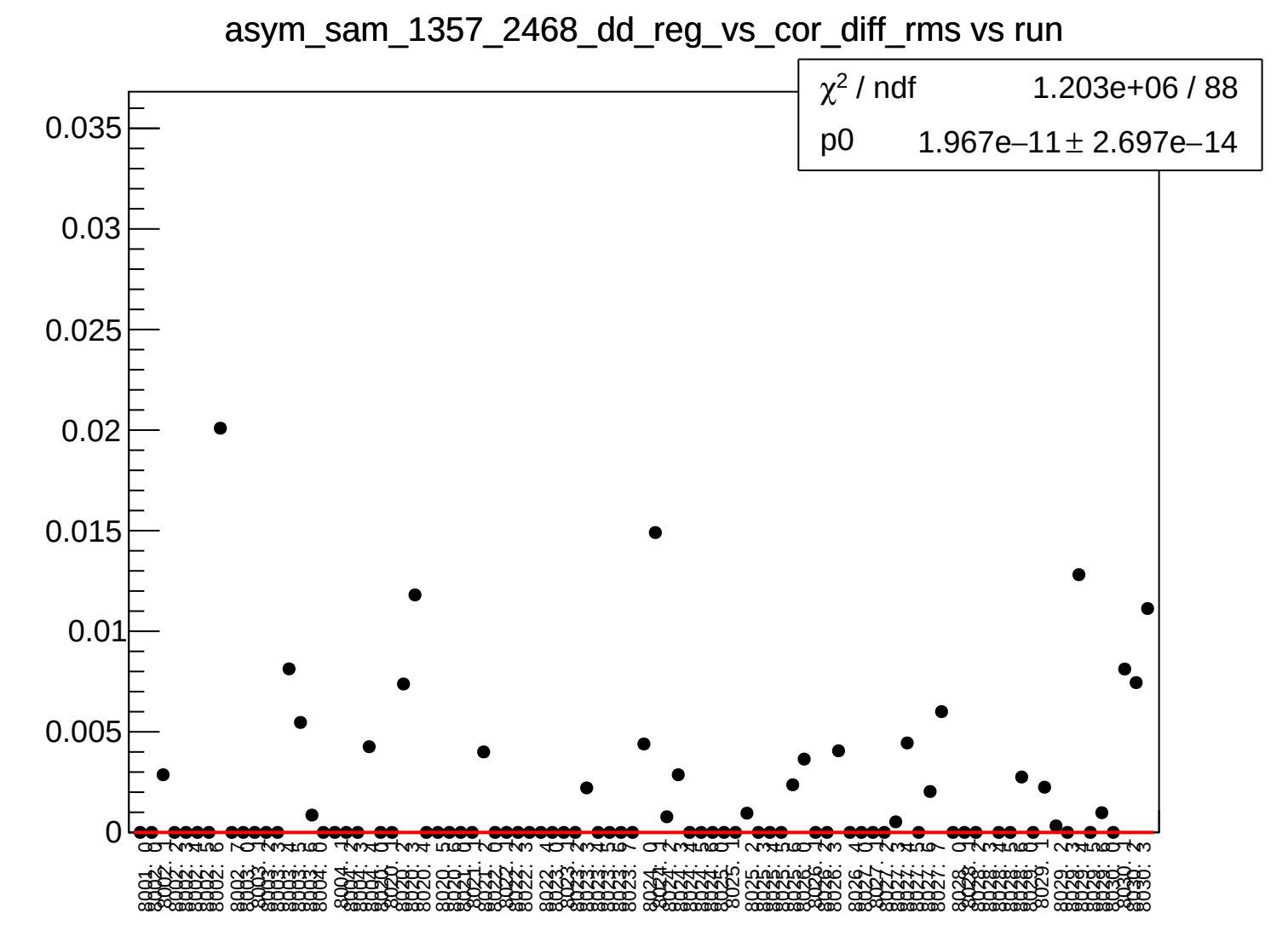

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 89.44 / 88
p0 159.9 ± 459.2
pull
Entries 89
Mean 175
Std Dev 0

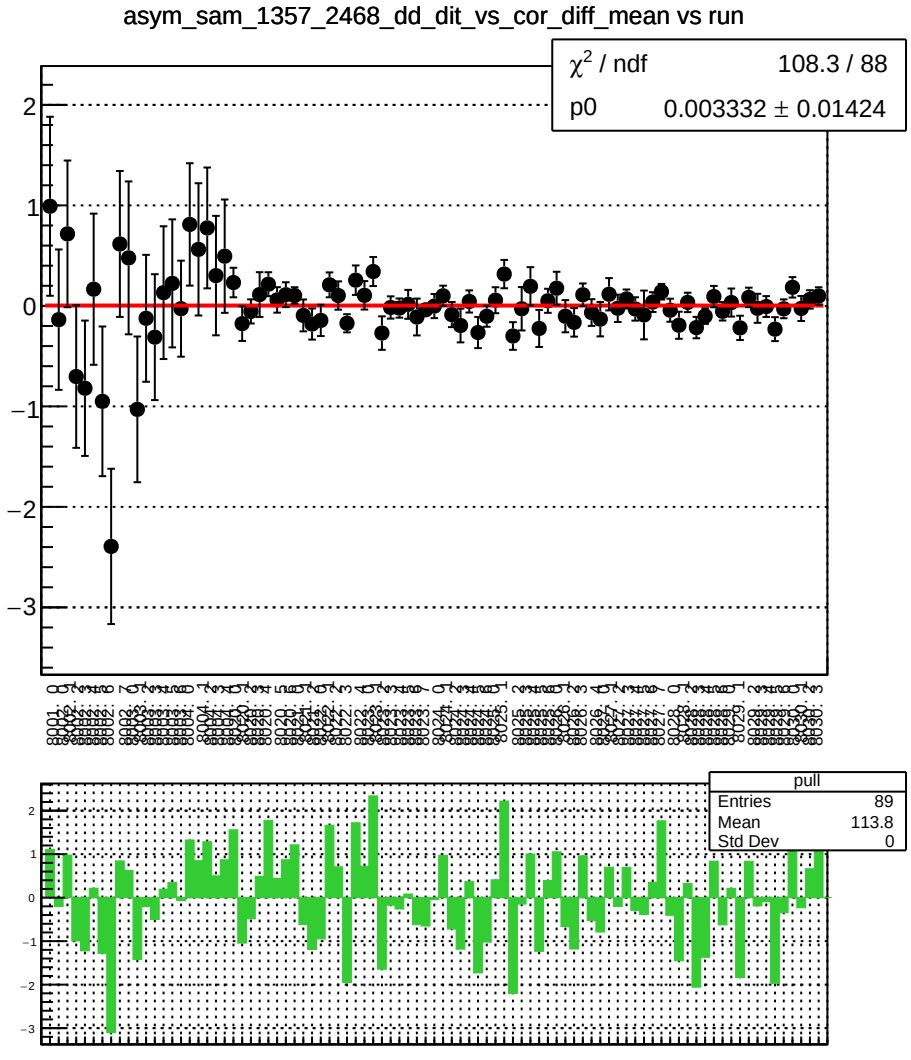

pull1D
Entries 89
Mean 0.01425
Std Dev 1.002

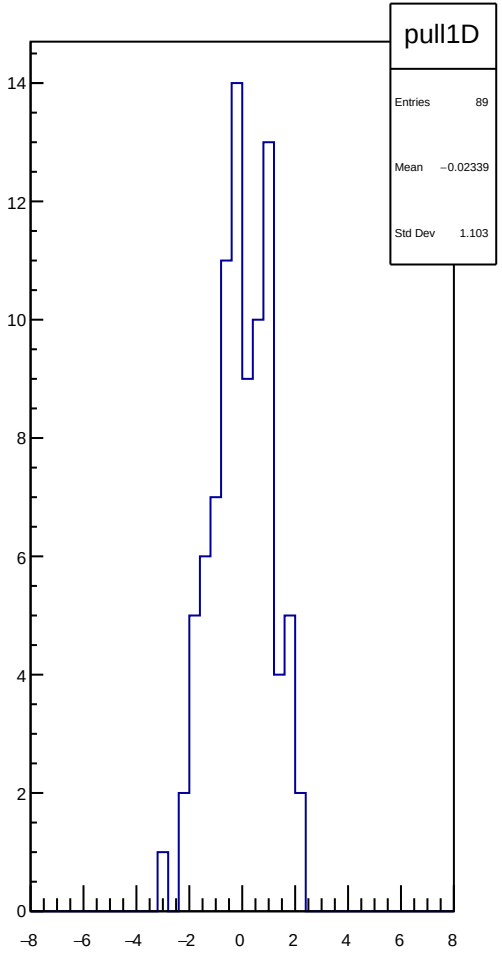

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.594e+04 / 88
p0 425.6 ± 0.3247
540
520
500
480
460
440
420
400
380
360

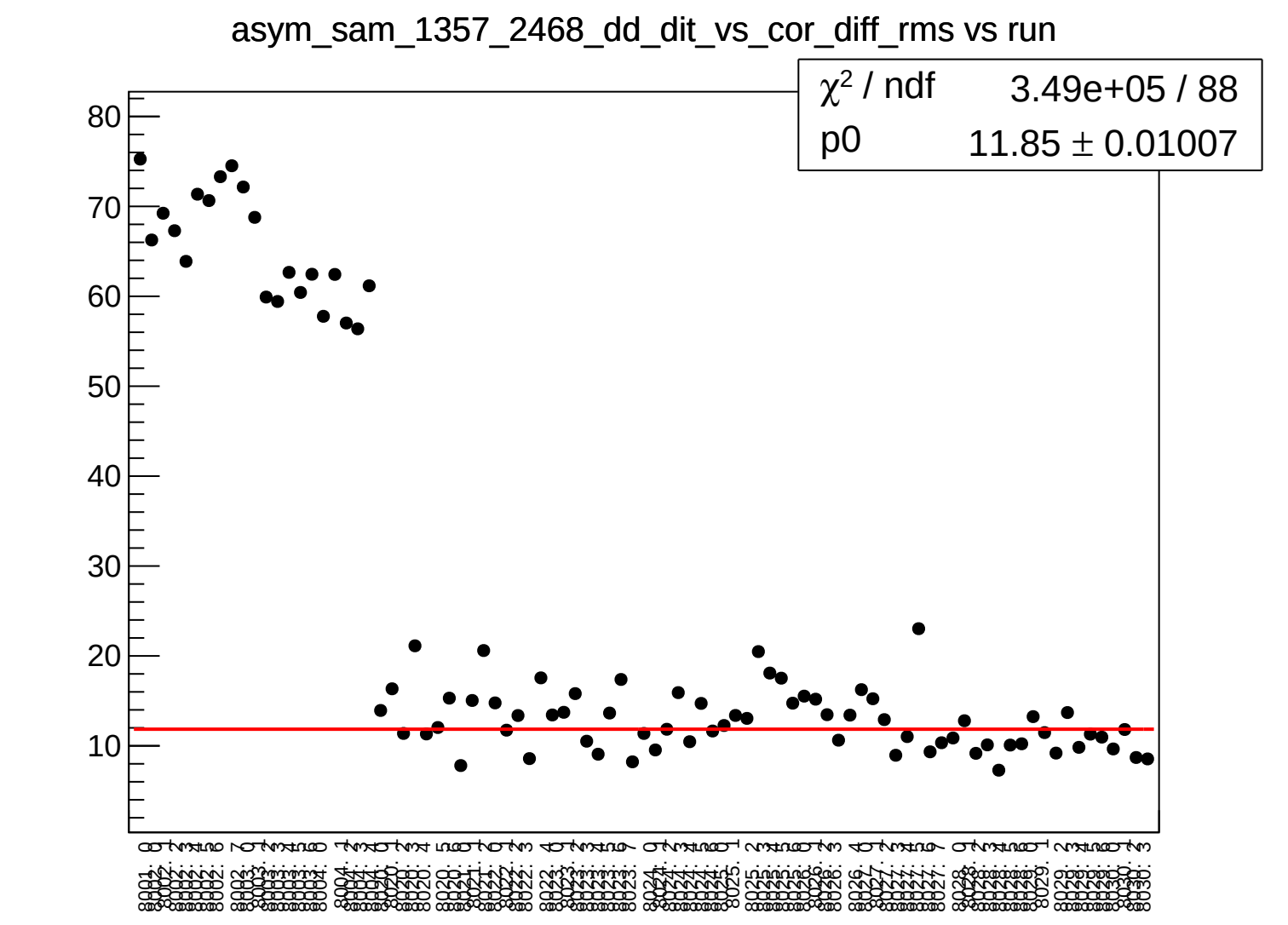

asym_sam_1357_2468_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 100.7 / 88
p0 −7.139e−14 ± 3.815e−14
pull
Entries 89
Mean 35.22
Std Dev 24.66

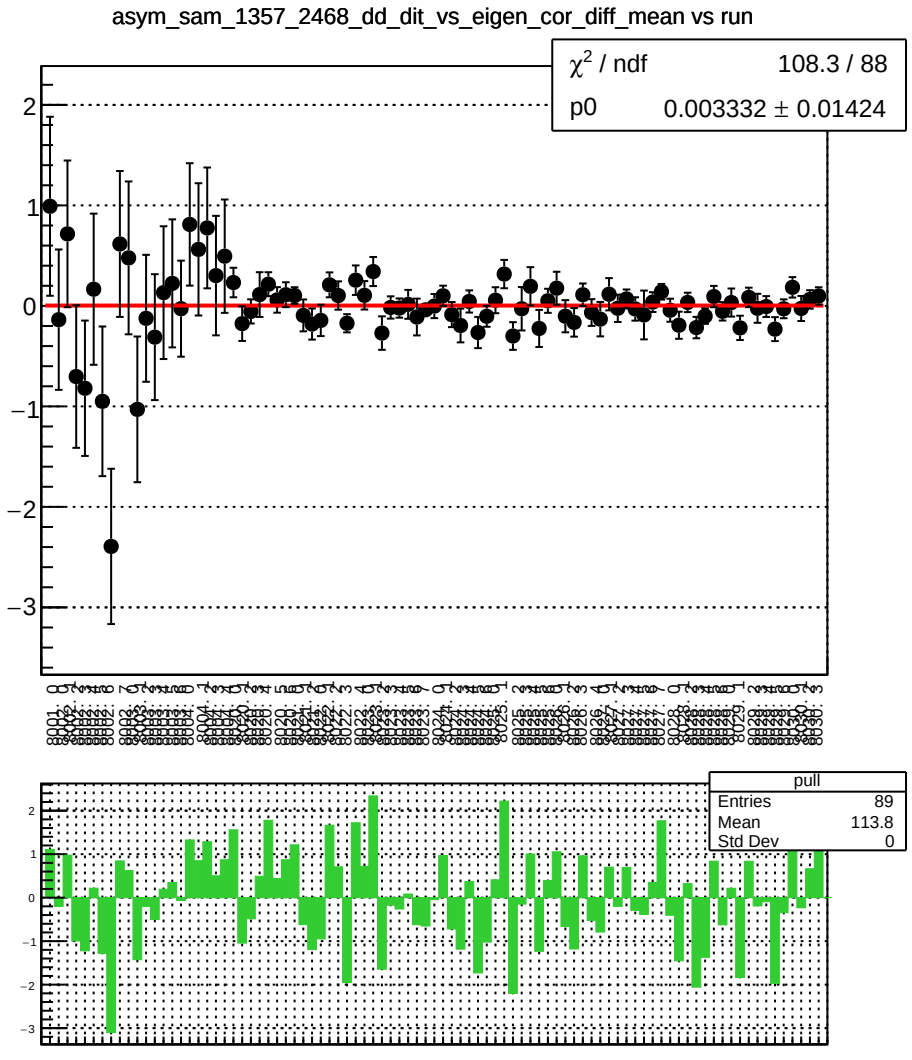

pull1D
Entries 89
Mean −0.1159
Std Dev 1.057

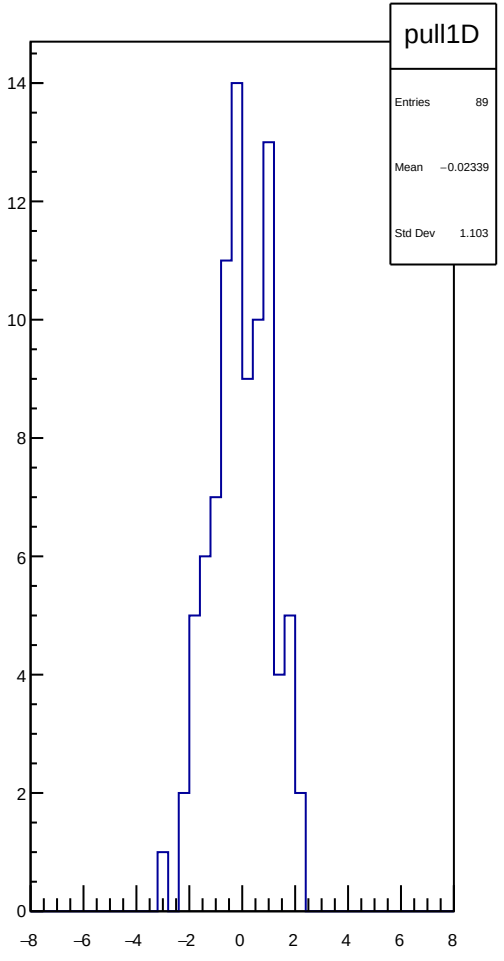

asym_sam_1357_2468_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.203e+06 / 88
p0 1.967e−11 ± 2.697e−14
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

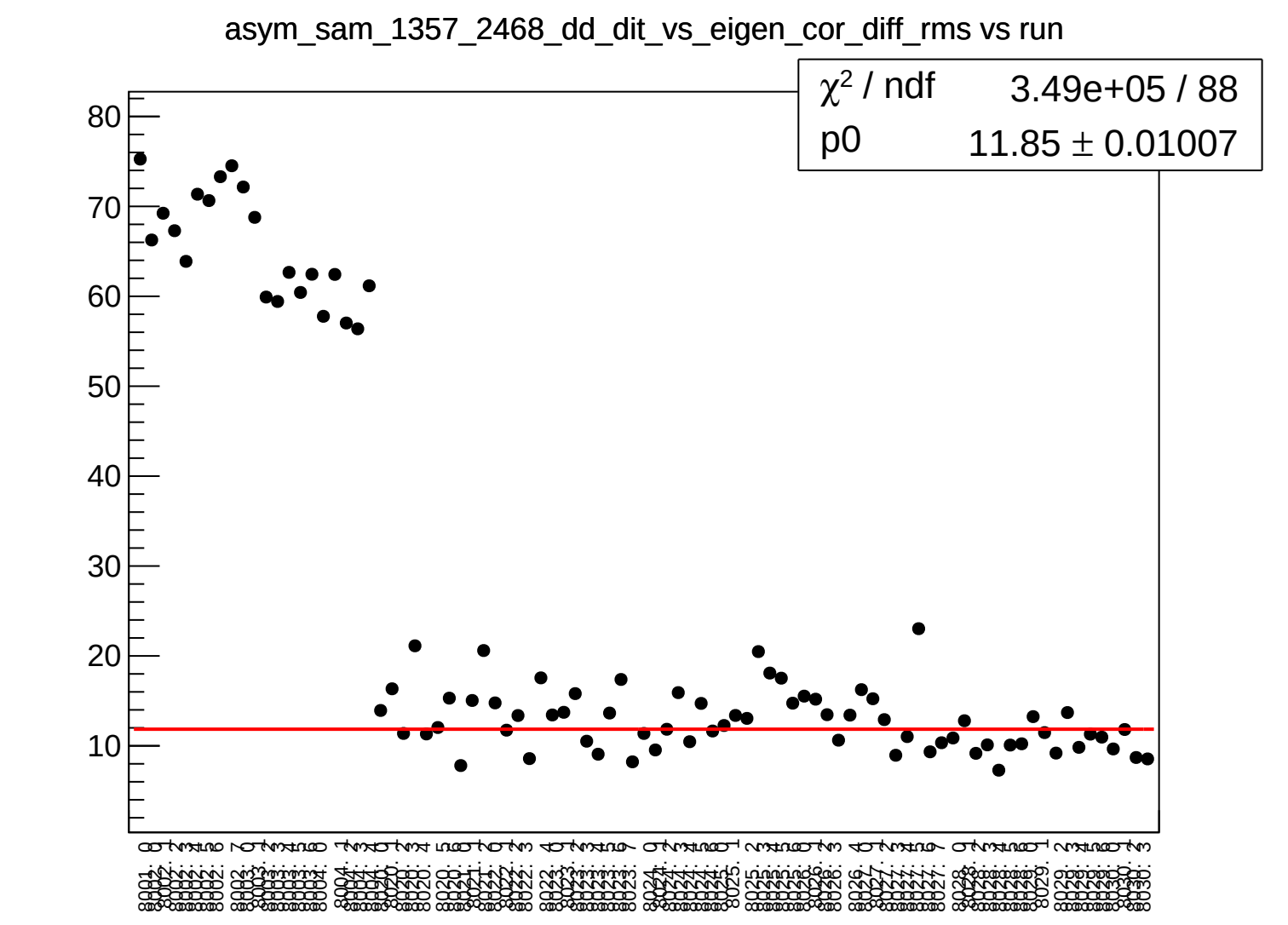

asym_sam_1357_2468_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 108.3 / 88
p0 0.003332 ± 0.01424
pull
Entries 89
Mean 113.8
Std Dev 0

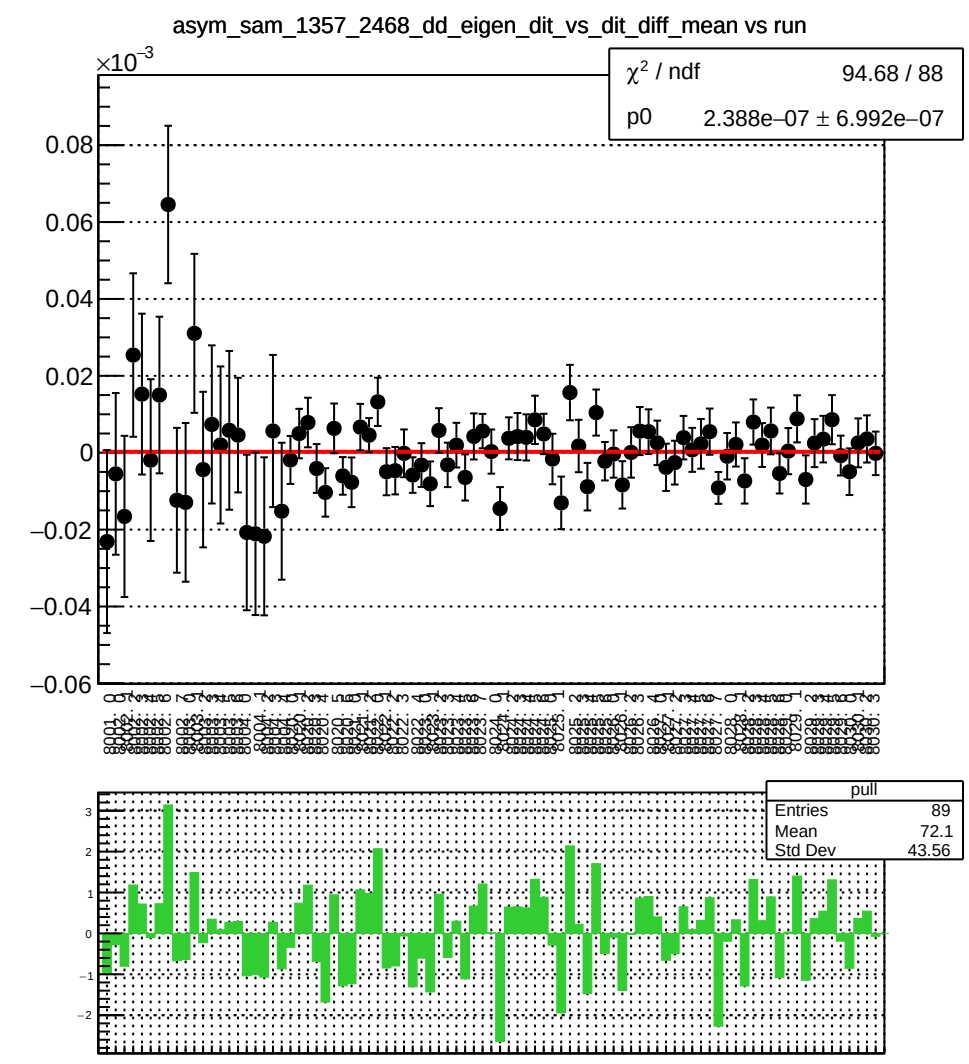

pull1D
Entries 89
Mean −0.02339
Std Dev 1.103

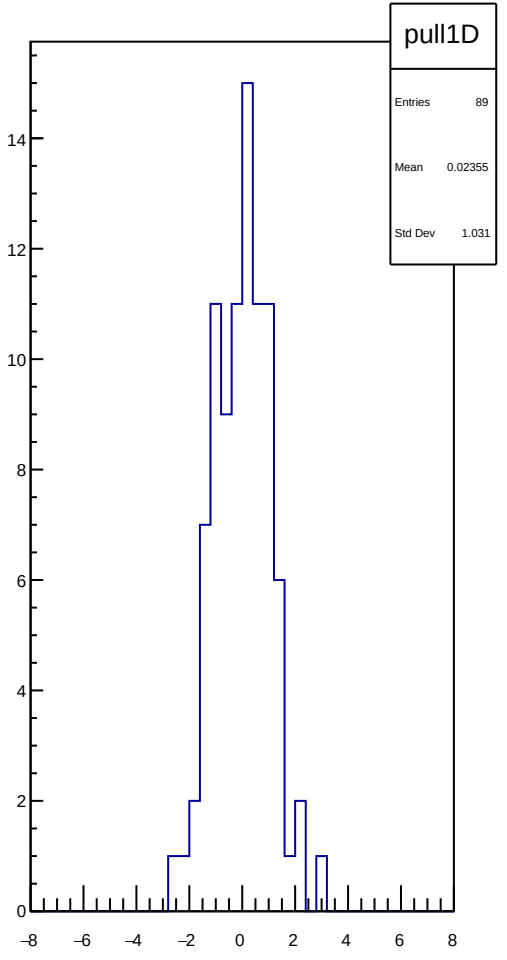

asym_sam_1357_2468_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.49e+05 / 88
p0 11.85 ± 0.01007
80
70
60
50
40
30
20
10

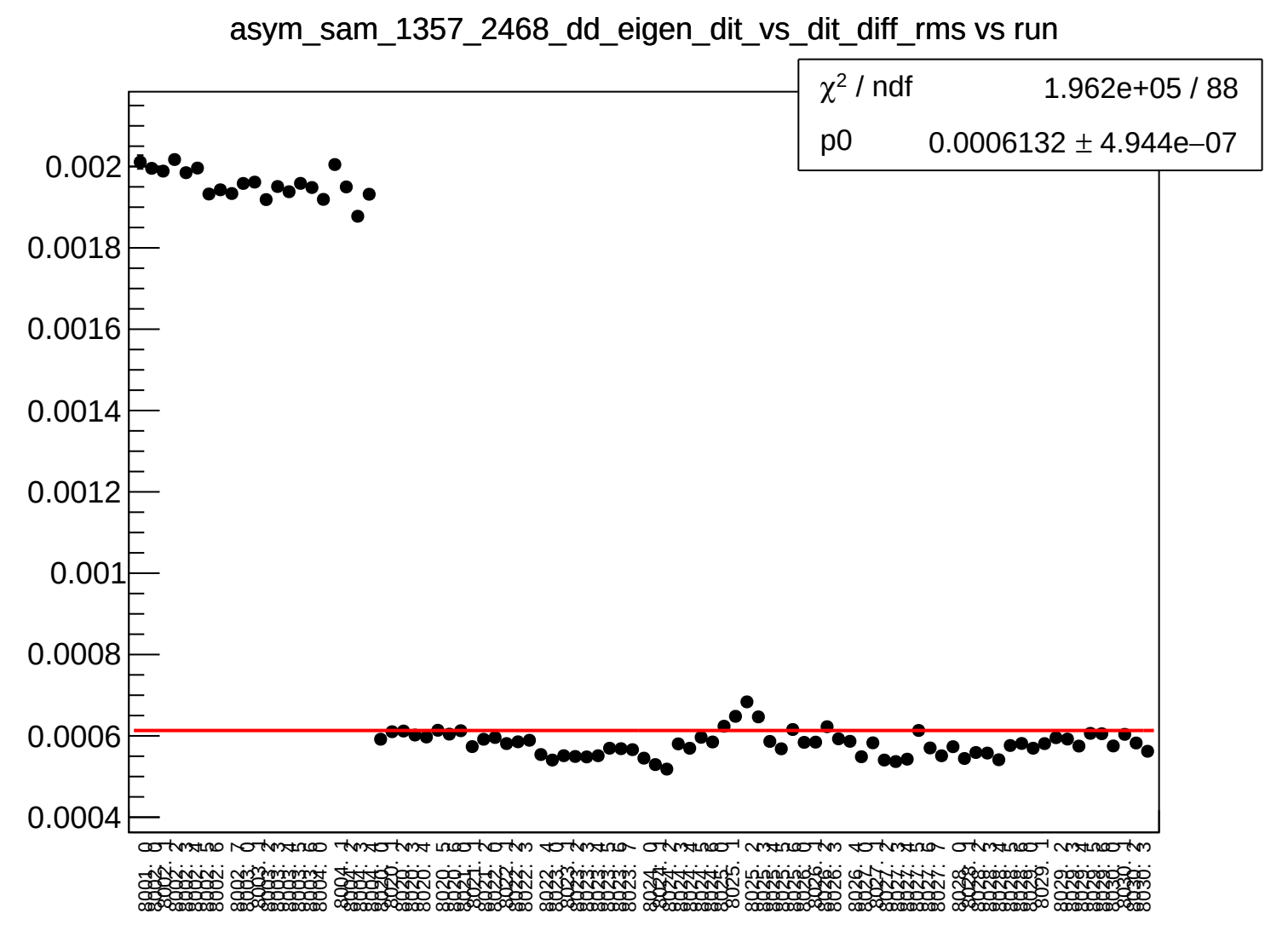

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 108.3 / 88
p0 0.003332 ± 0.01424
pull
Entries 89
Mean 113.8
Std Dev 0

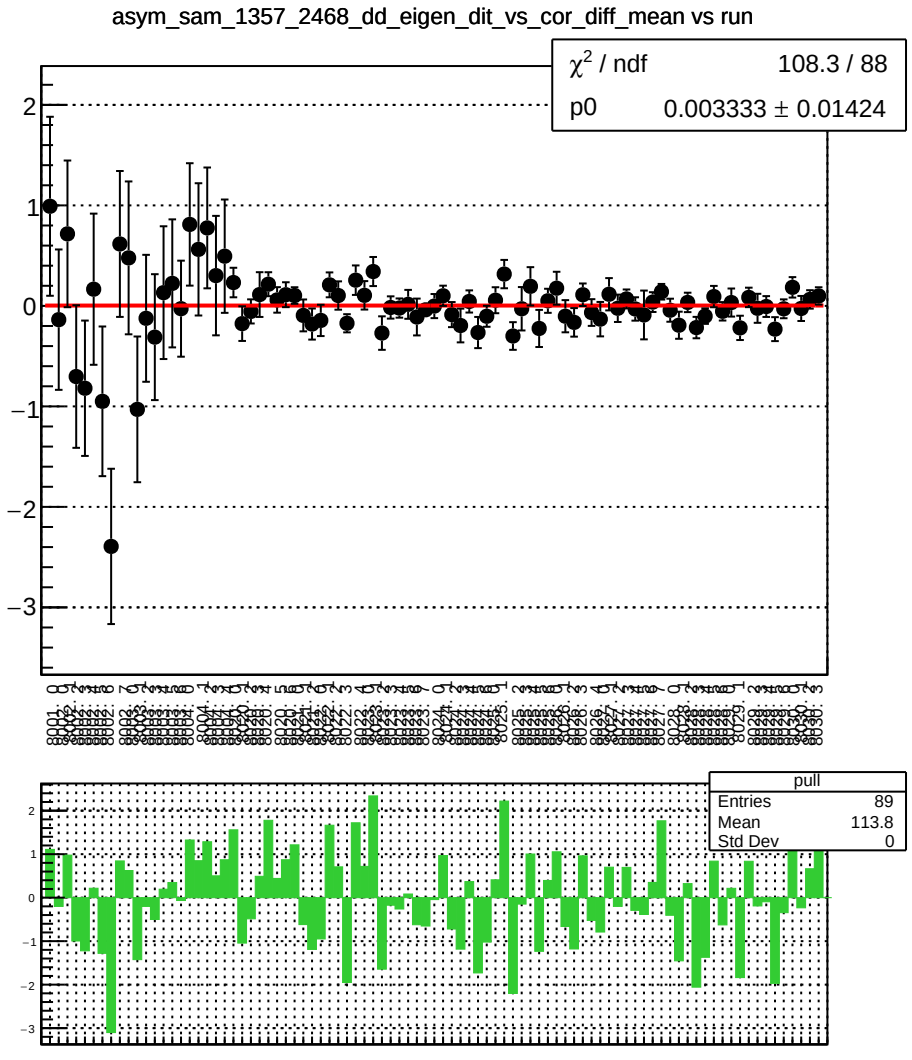

pull1D
Entries 89
Mean −0.02339
Std Dev 1.103

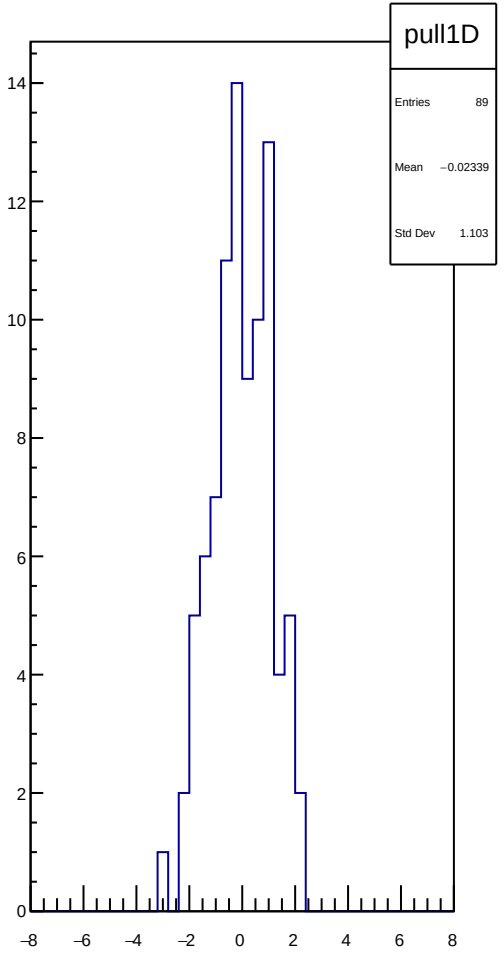

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.49e+05 / 88
p0 11.85 ± 0.01007
80
70
60
50
40
30
20
10

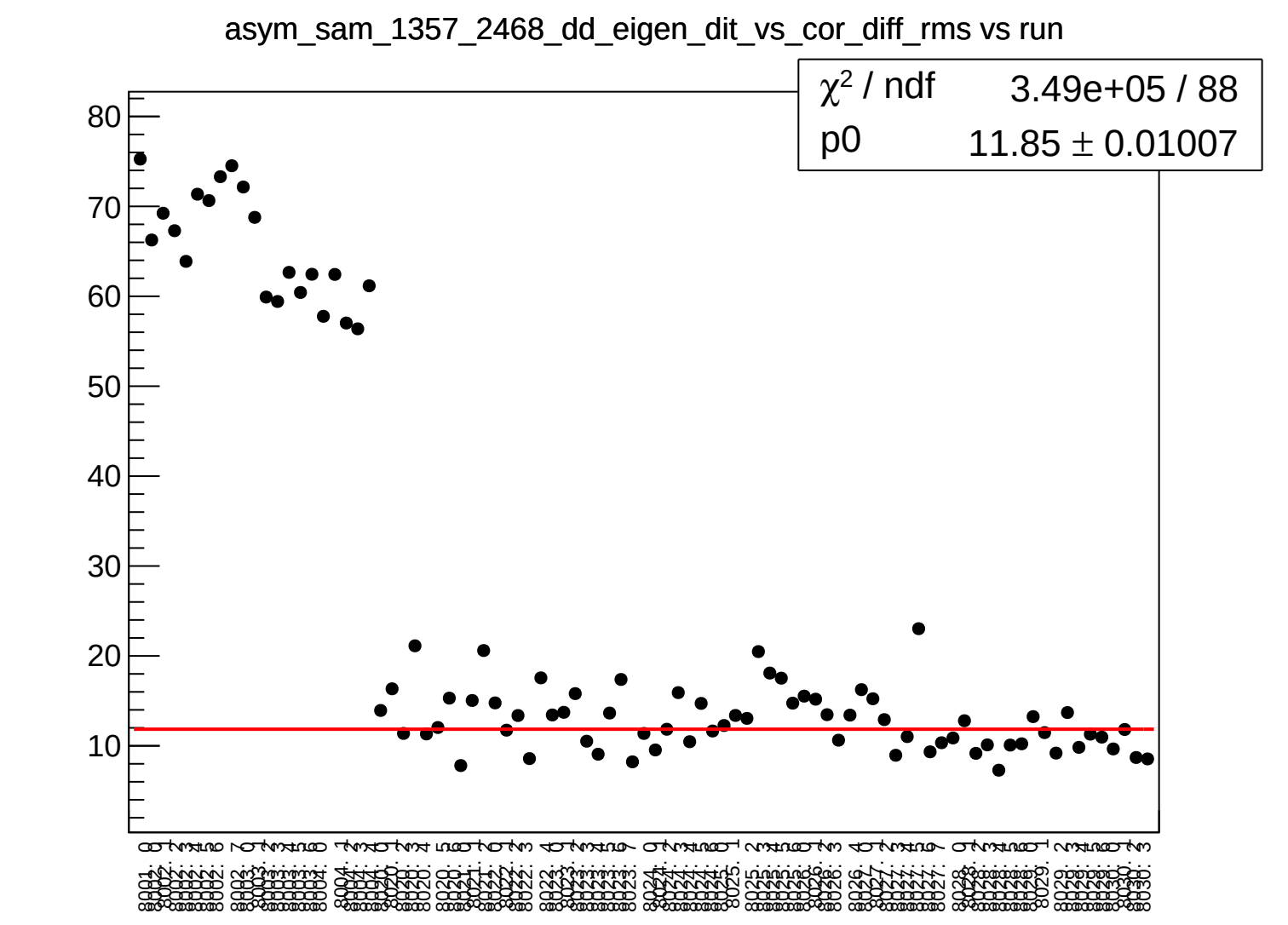

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 94.68 / 88
p0 2.388e−07 ± 6.992e−07
pull
Entries 89
Mean 72.1
Std Dev 43.56

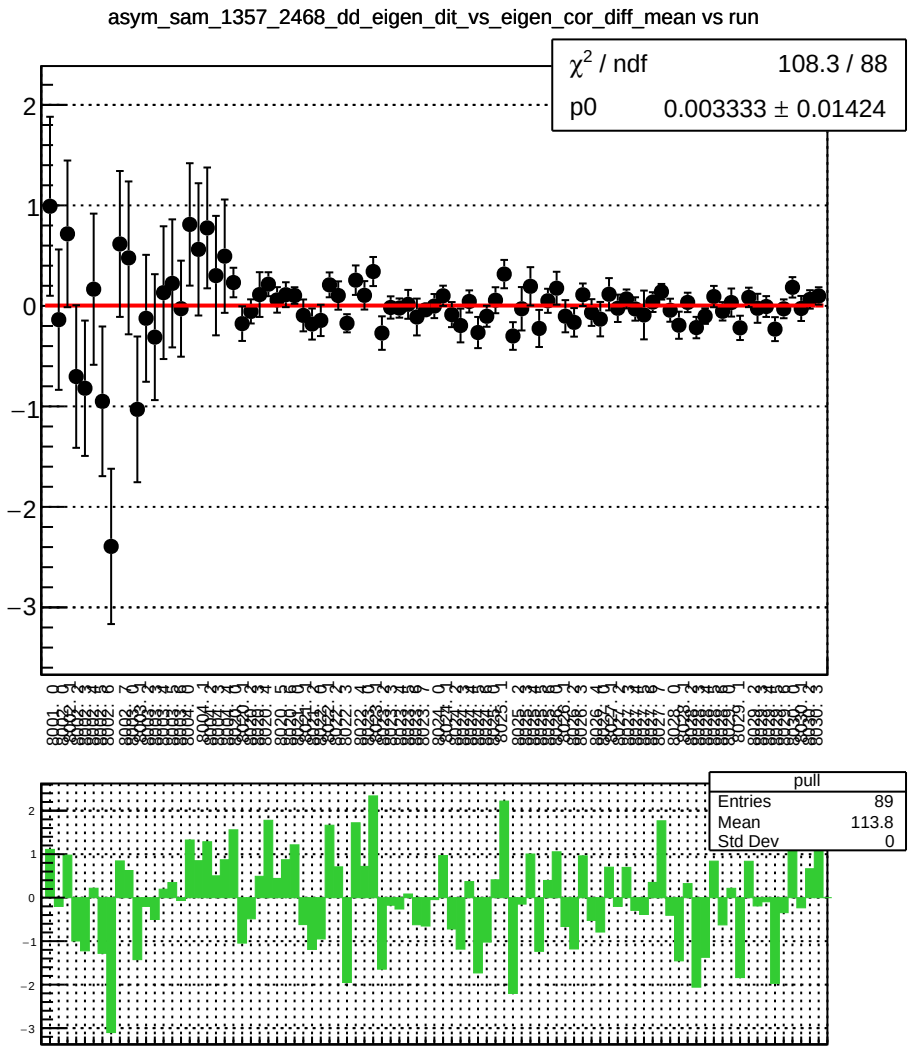

pull1D
Entries 89
Mean 0.02355
Std Dev 1.031

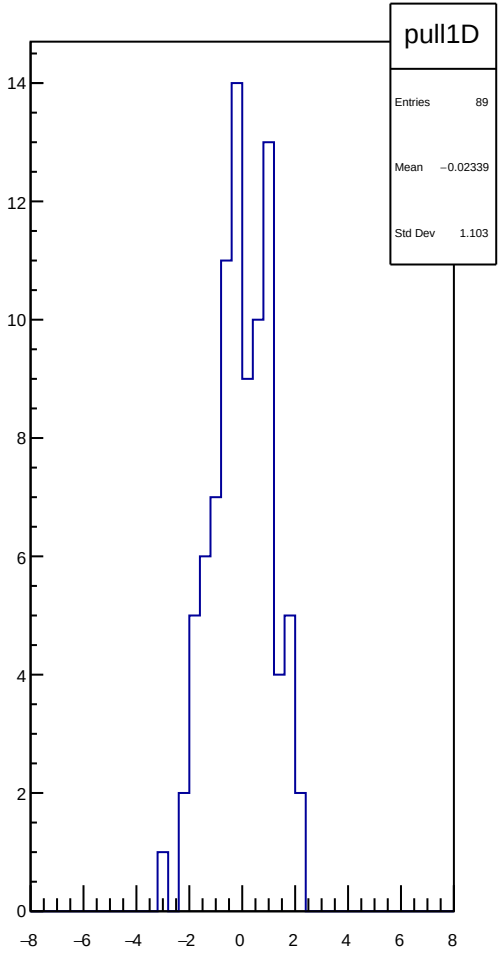

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.962e+05 / 88
p0 0.0006132 ± 4.944e−07
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004

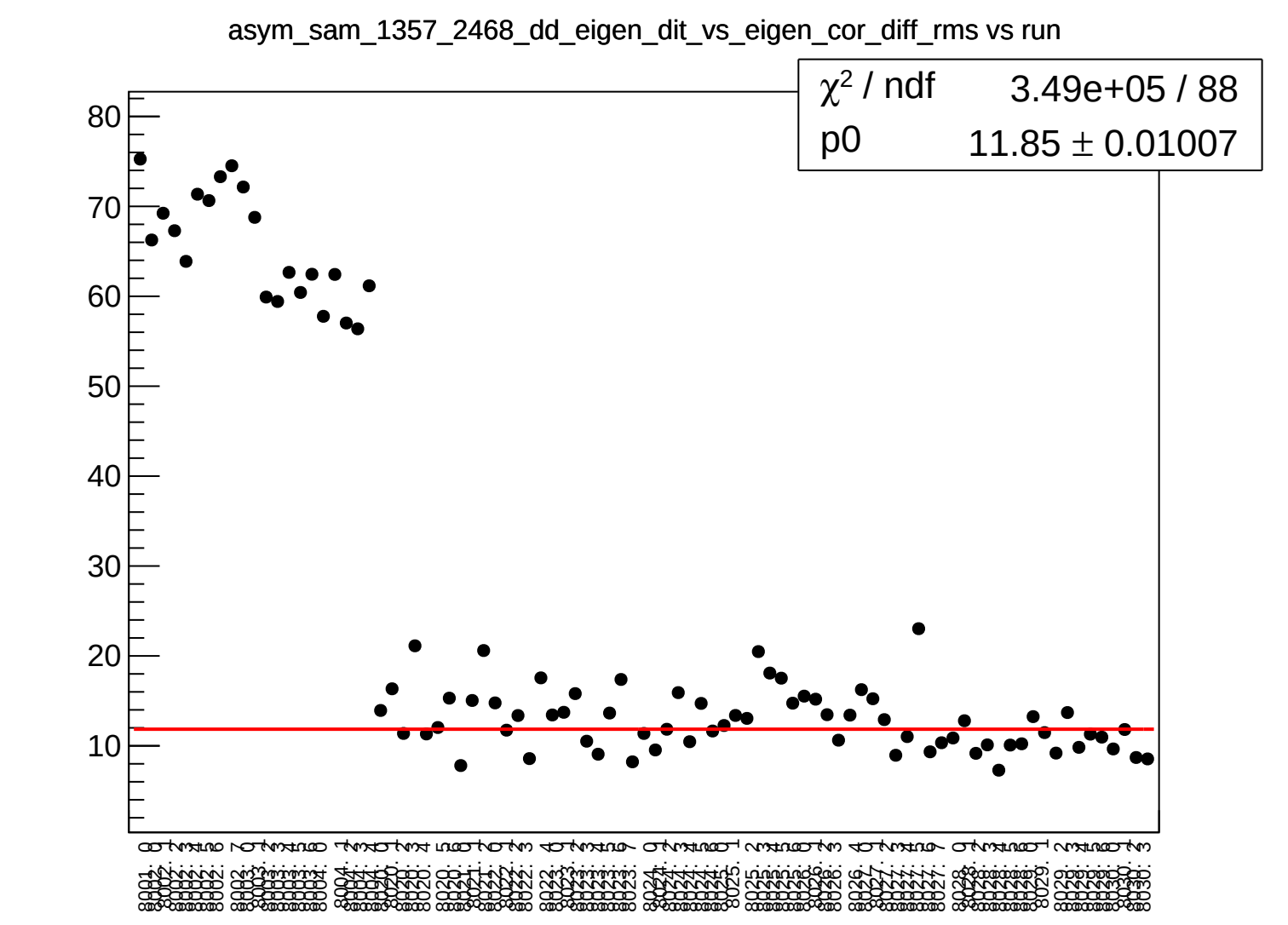

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 108.3 / 88
p0 0.003333 ± 0.01424
pull
Entries 89
Mean 113.8
Std Dev 0

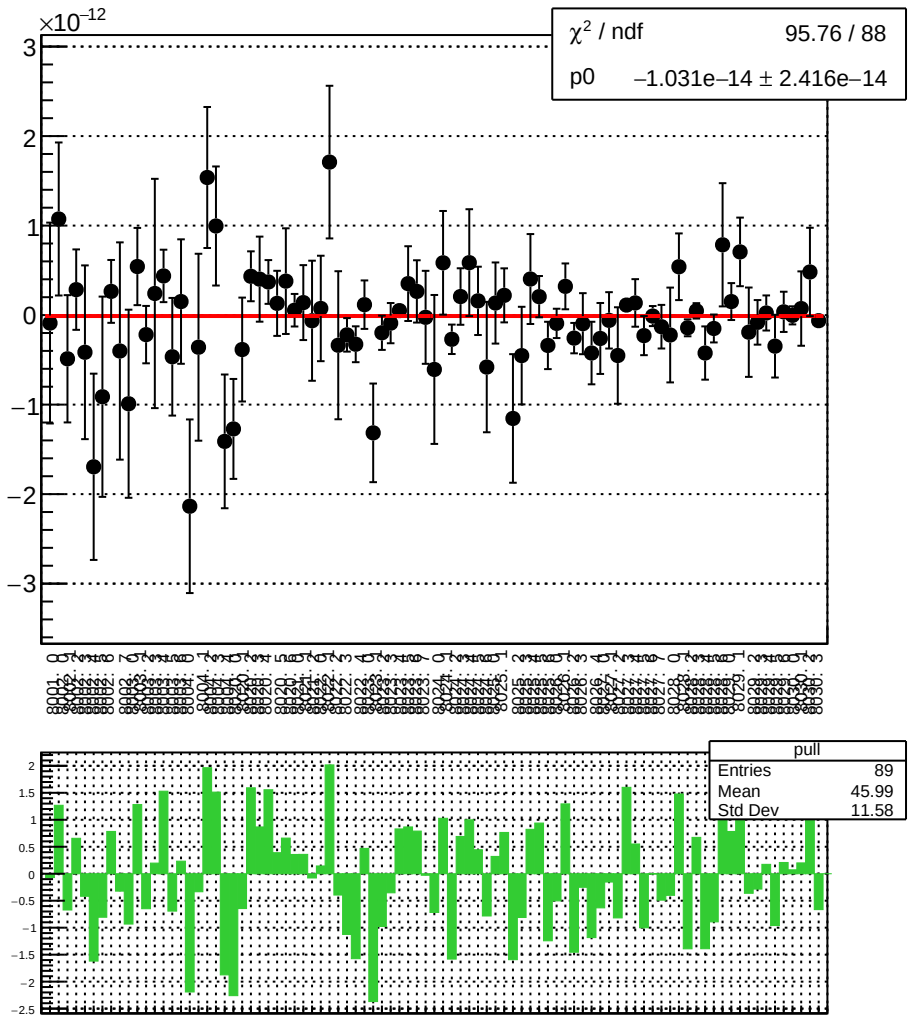

pull1D
Entries 89
Mean −0.02339
Std Dev 1.103

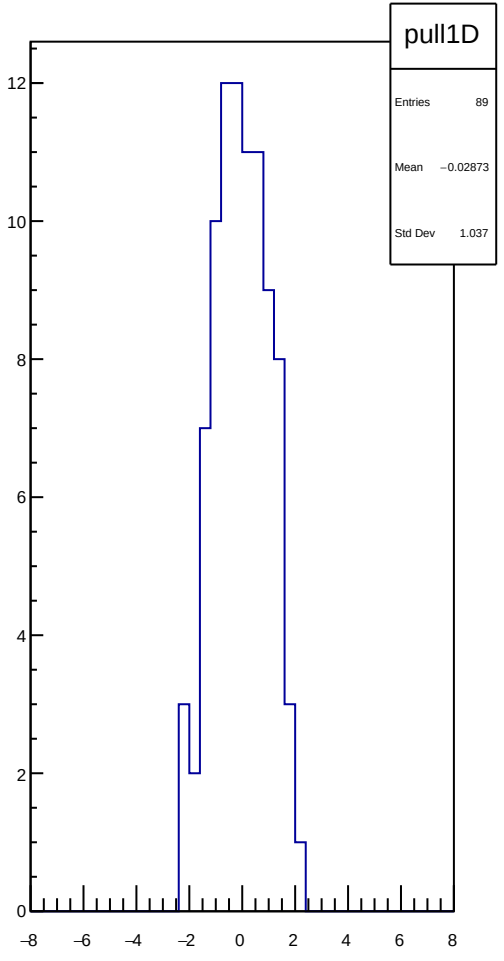

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.49e+05 / 88
p0 11.85 ± 0.01007
80
70
60
50
40
30
20
10

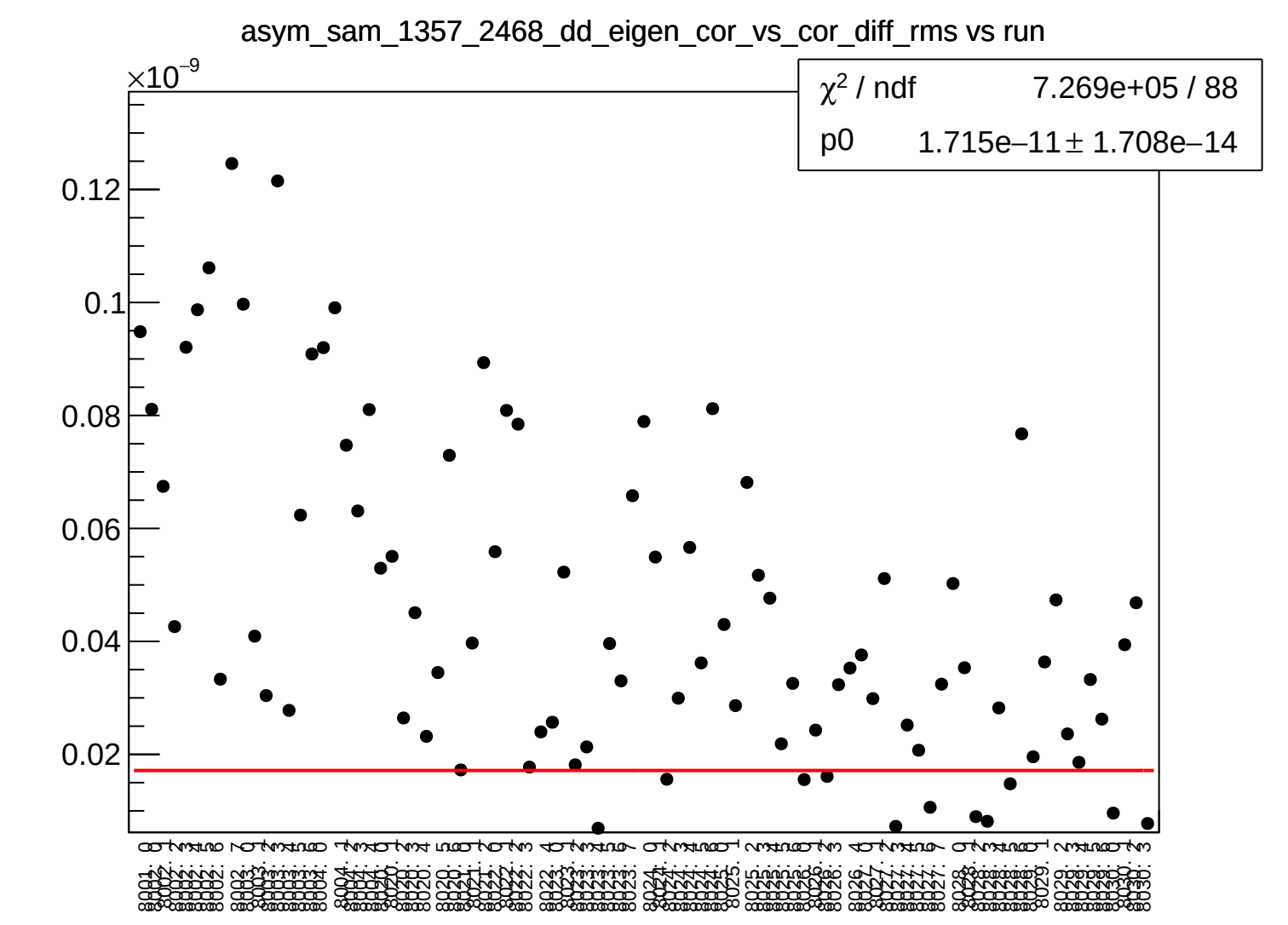

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 108.3 / 88
p0 0.003333 ± 0.01424
pull
Entries 89
Mean 113.8
Std Dev 0

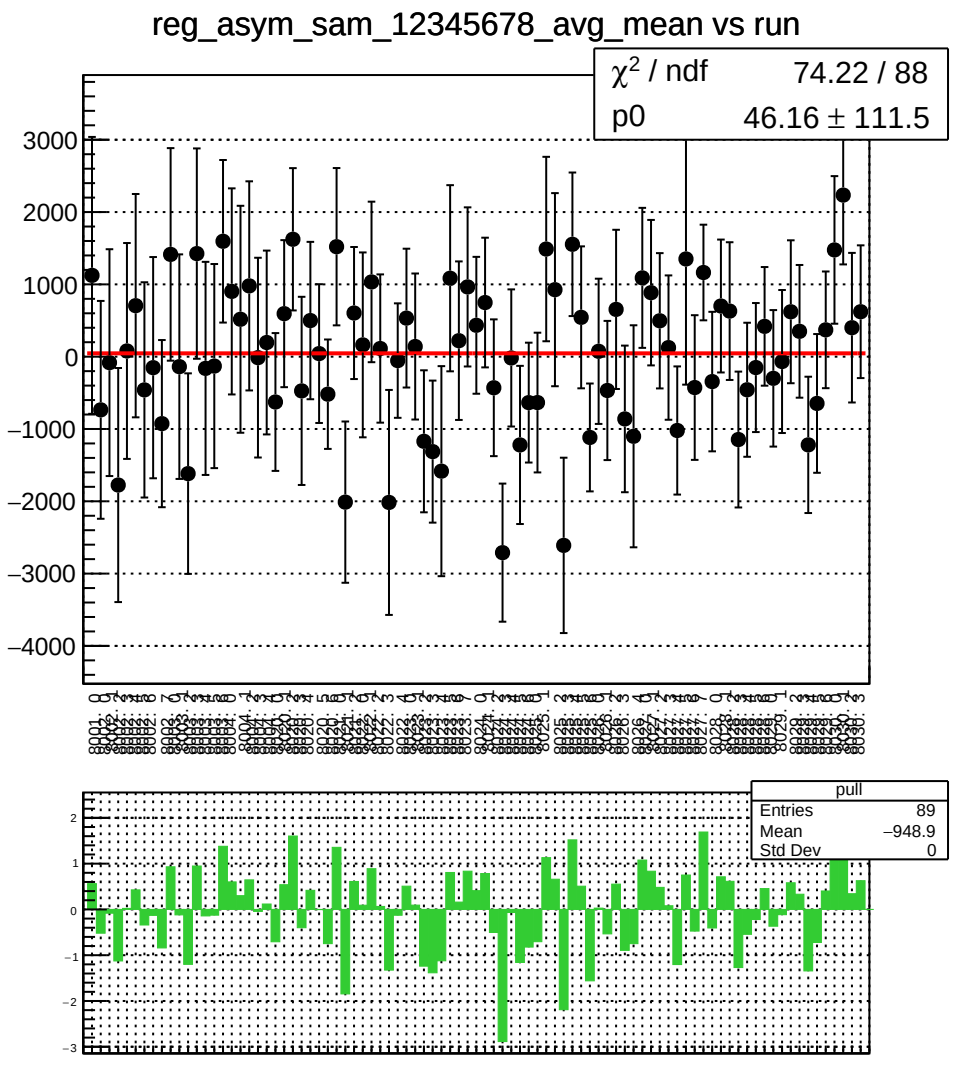

pull1D
Entries 89
Mean −0.02339
Std Dev 1.103

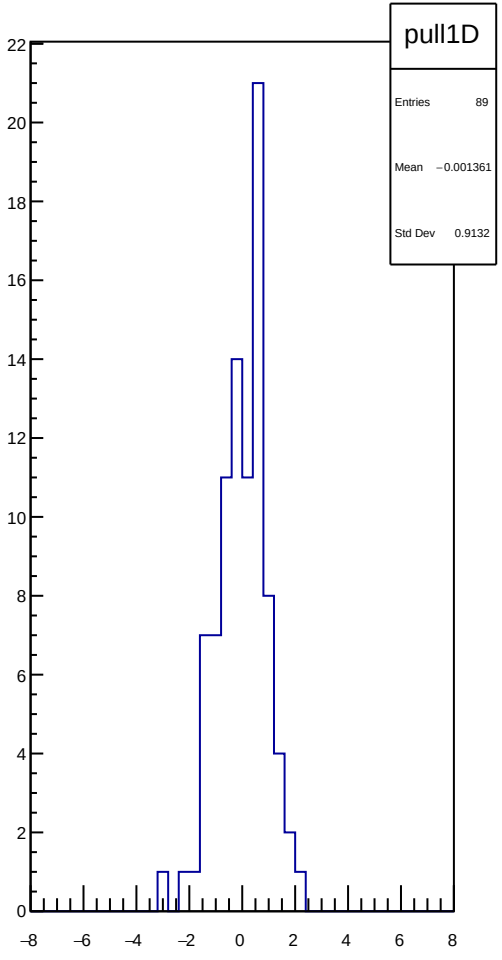

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.49e+05 / 88
p0 11.85 ± 0.01007
80
70
60
50
40
30
20
10

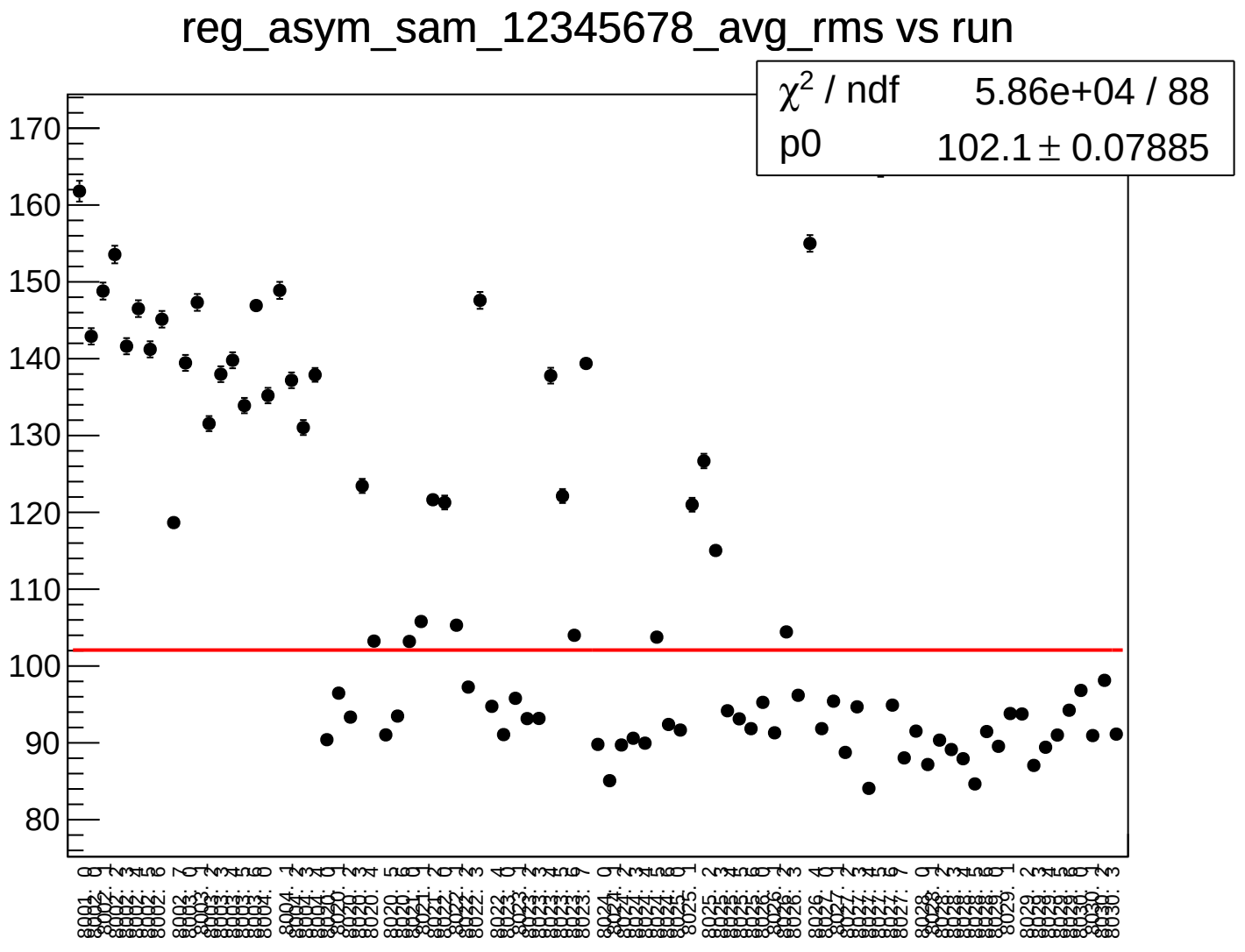

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 95.76 / 88
p0 −1.031e−14 ± 2.416e−14
pull
Entries 89
Mean 45.99
Std Dev 11.58

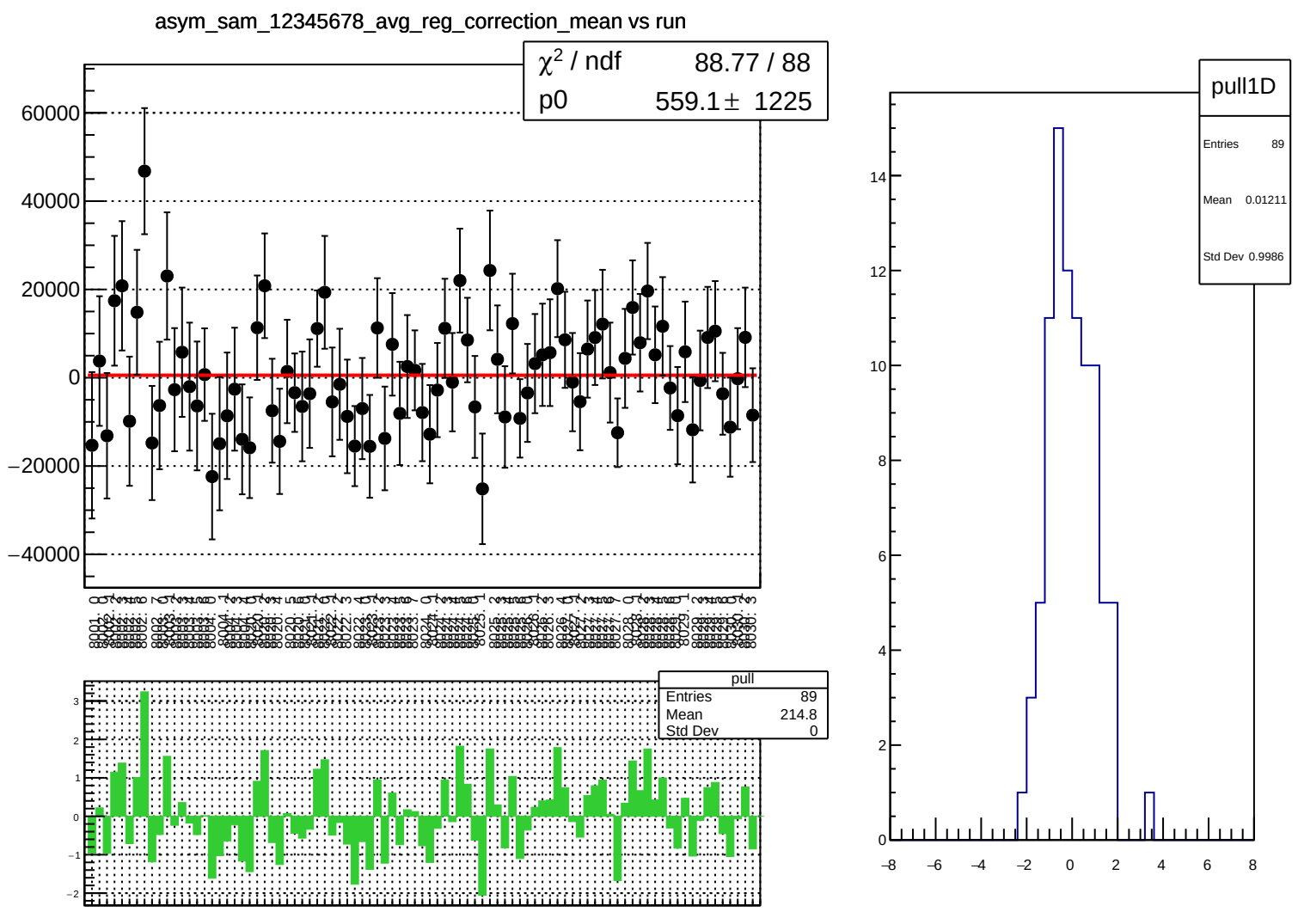

pull1D
Entries 89
Mean −0.02873
Std Dev 1.037

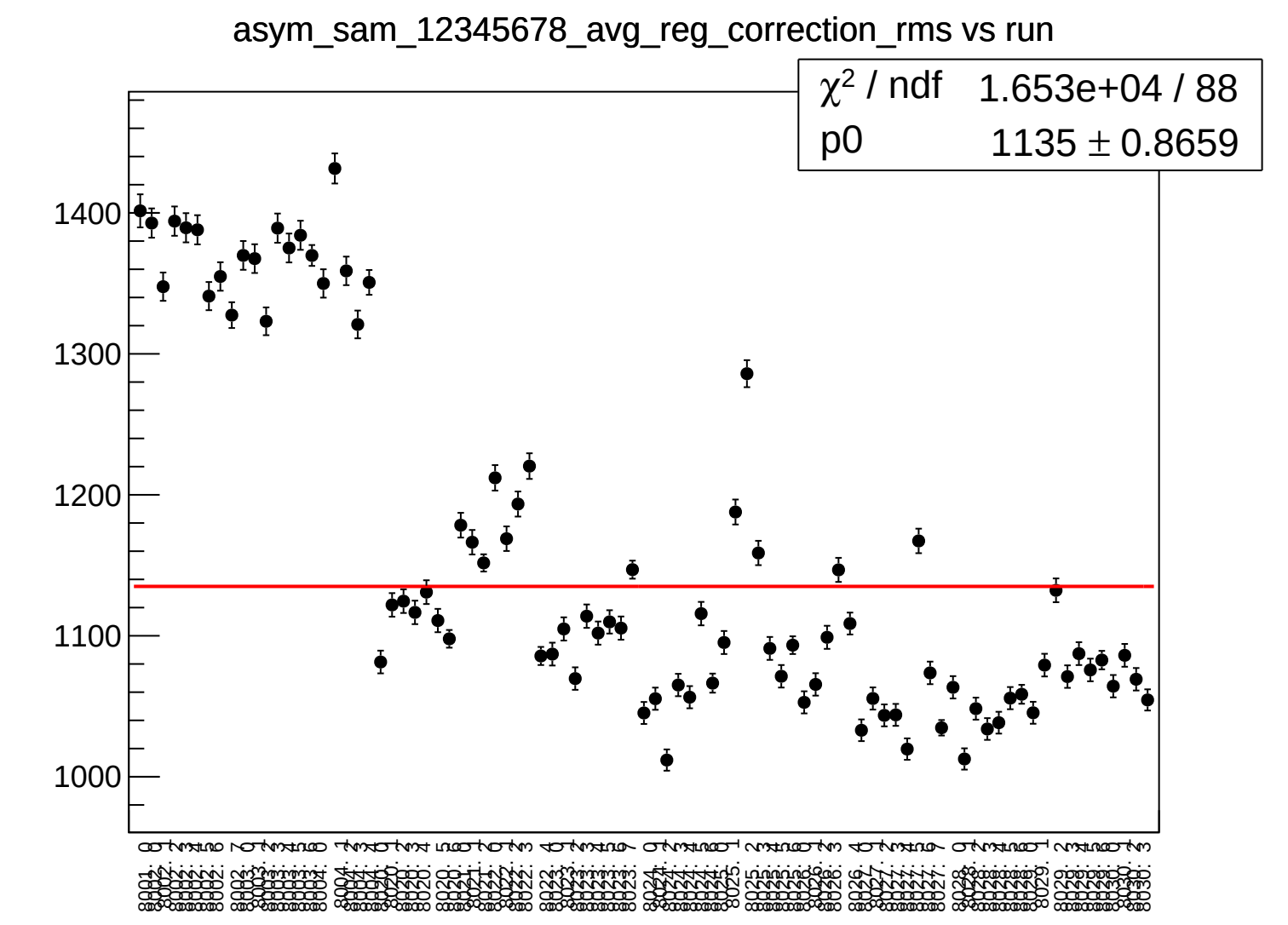

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.269e+05 / 88
p0 1.715e−11 ± 1.708e−14
0.12
0.1
0.08
0.06
0.04
0.02

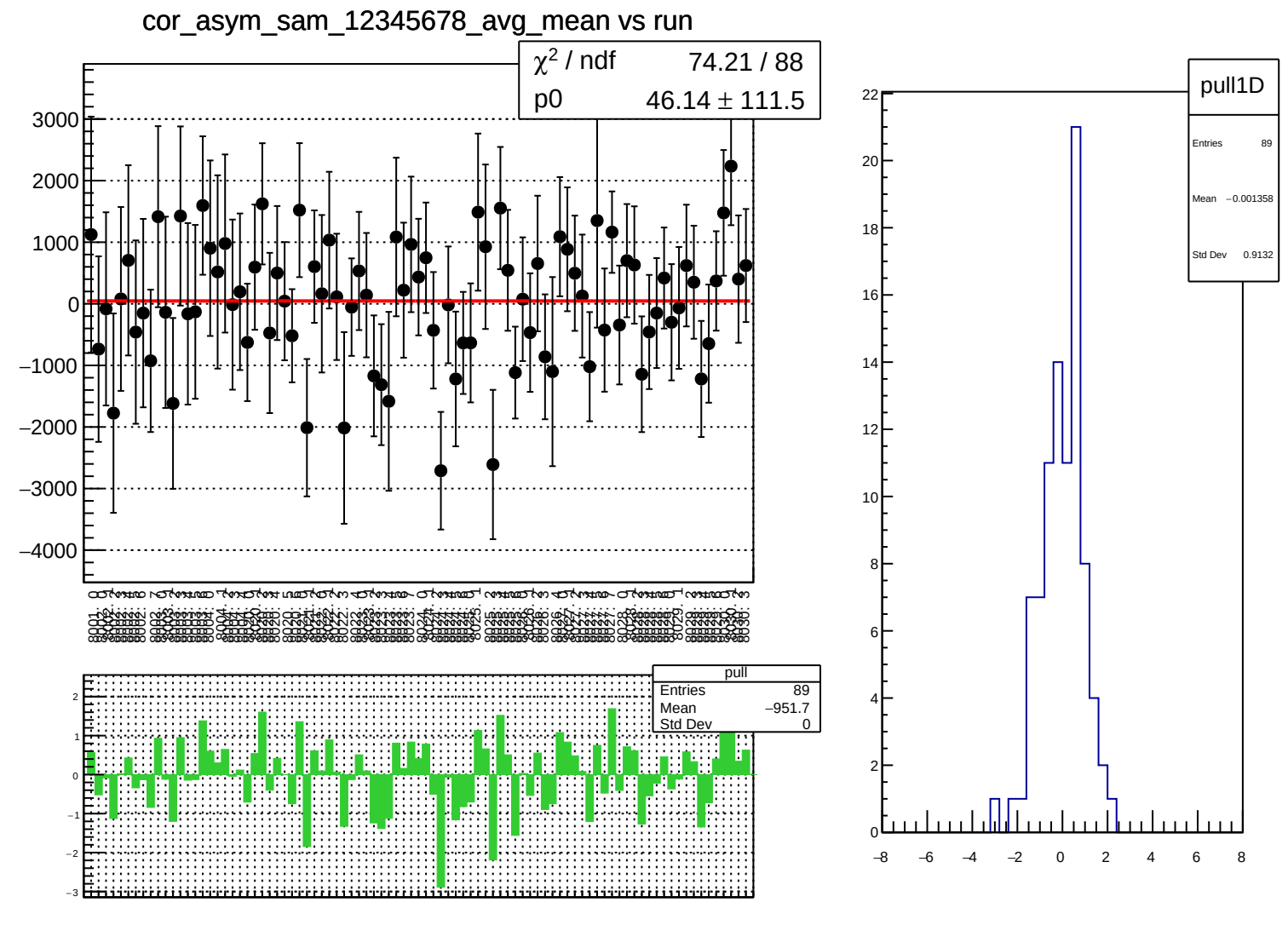

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 74.22 / 88
p0 46.16 ± 111.5
pull
Entries 89
Mean −948.9
Std Dev 0

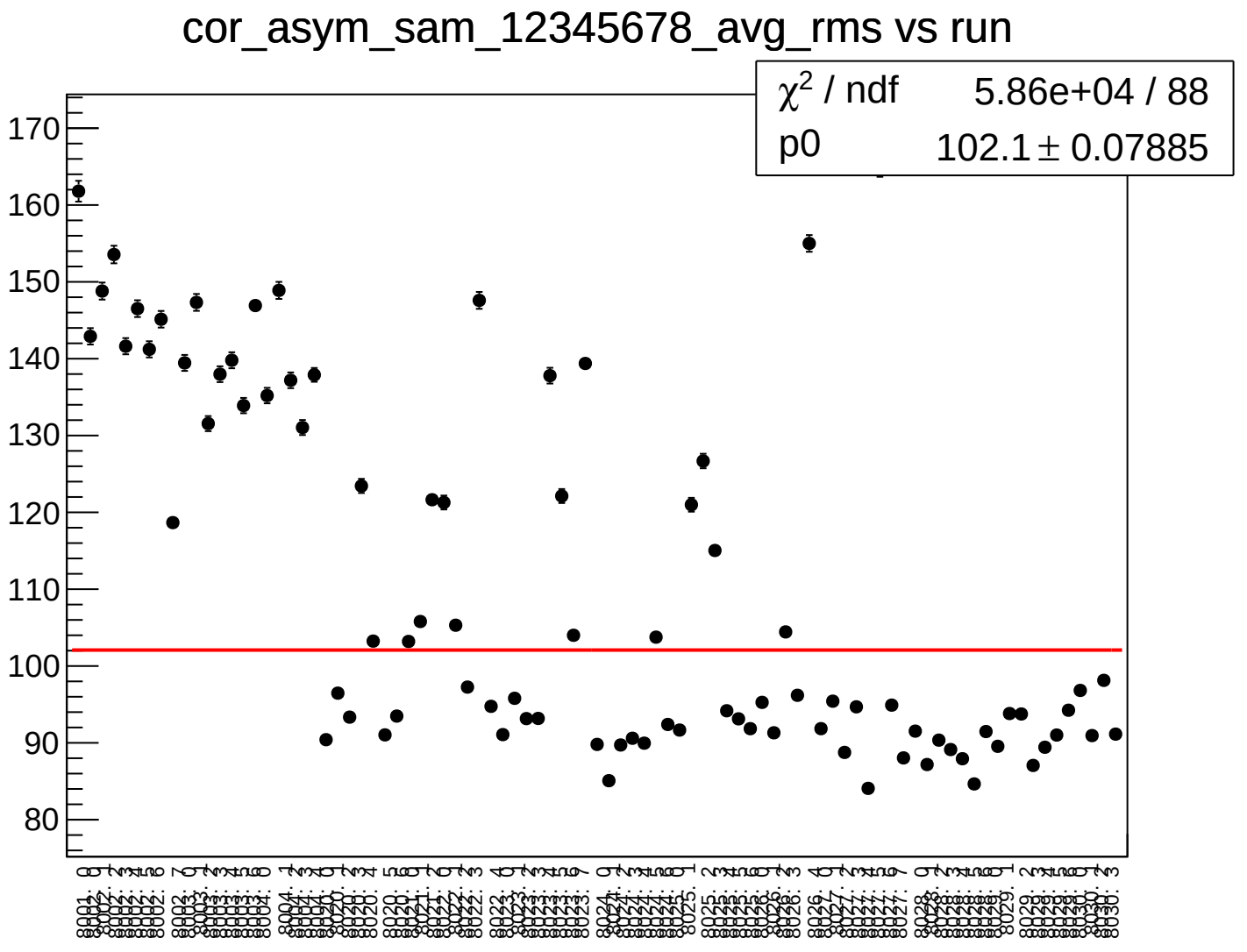

pull1D
Entries 89
Mean −0.001361
Std Dev 0.9132

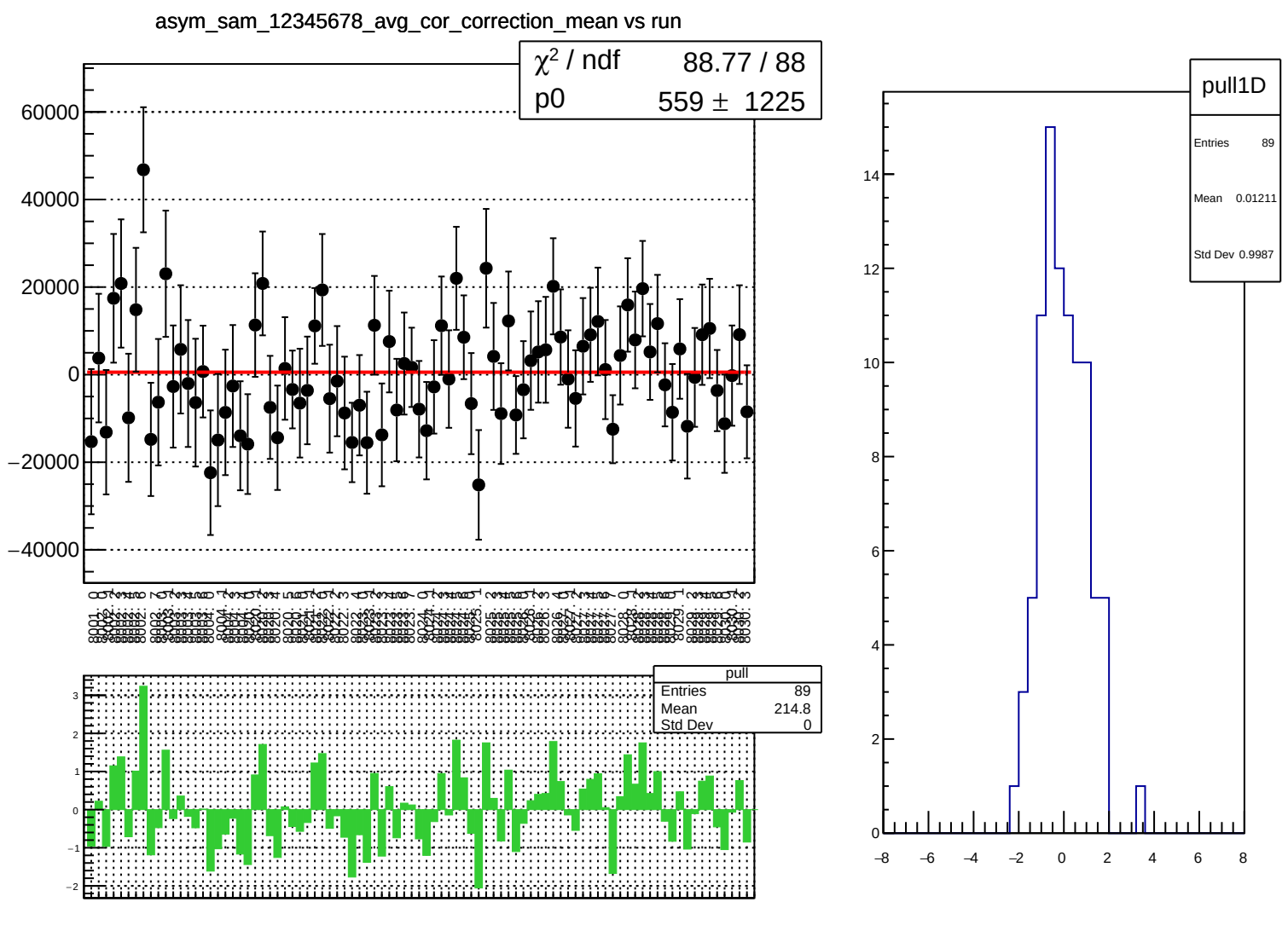

reg_asym_sam_12345678_avg_rms vs run
χ^2 / ndf 5.86e+04 / 88
p0 102.1 ± 0.07885
170
160
150
140
130
120
110
100
90
80

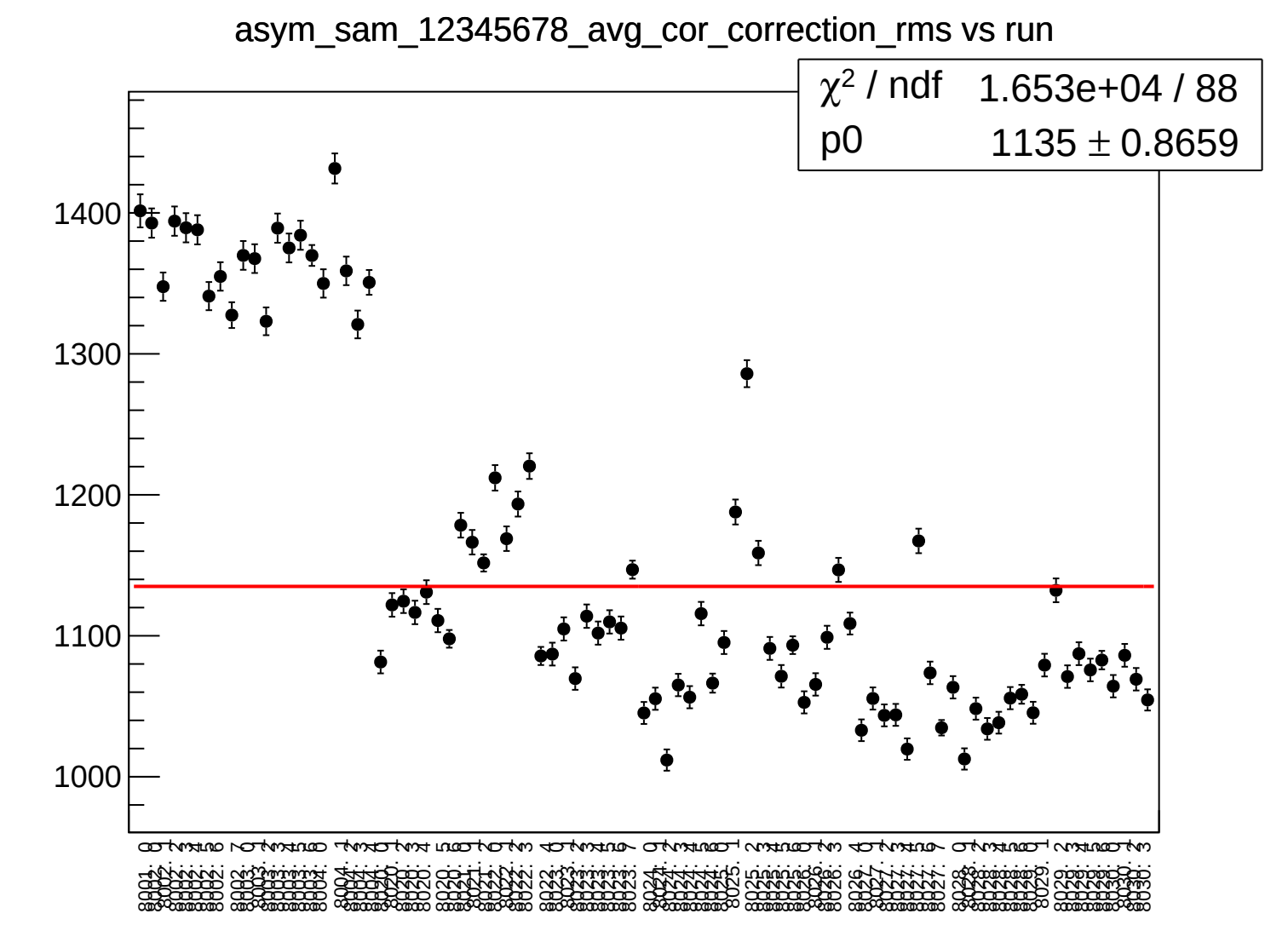

asym_sam_12345678_avg_reg_correction_mean vs run
χ² / ndf 88.77 / 88
p0 559.1 ± 1225
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 214.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.01211
Std Dev 0.9986
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

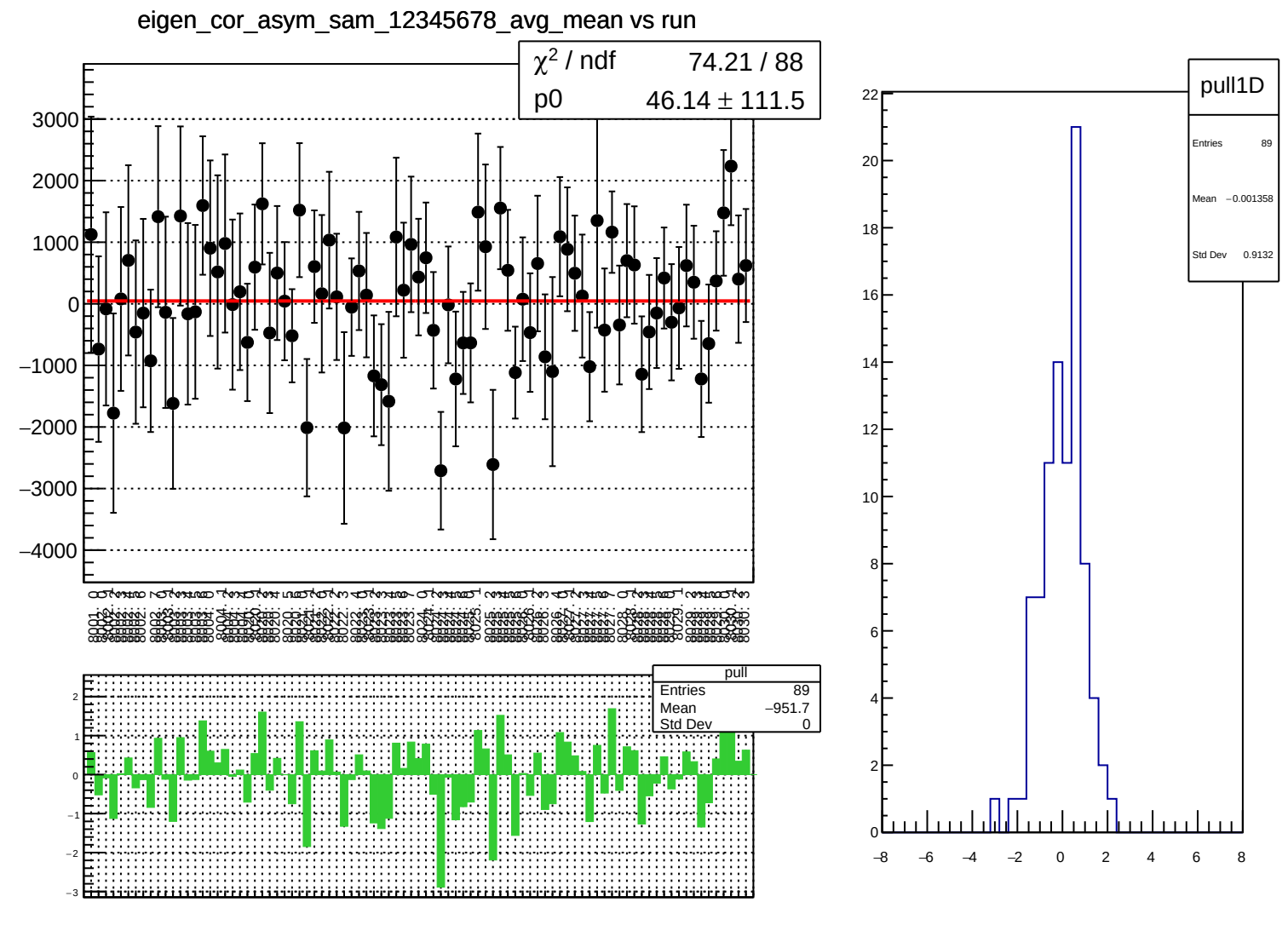

asym_sam_12345678_avg_reg_correction_rms vs run
χ² / ndf 1.653e+04 / 88
p0 1135 ± 0.8659
1400
1300
1200
1100
1000

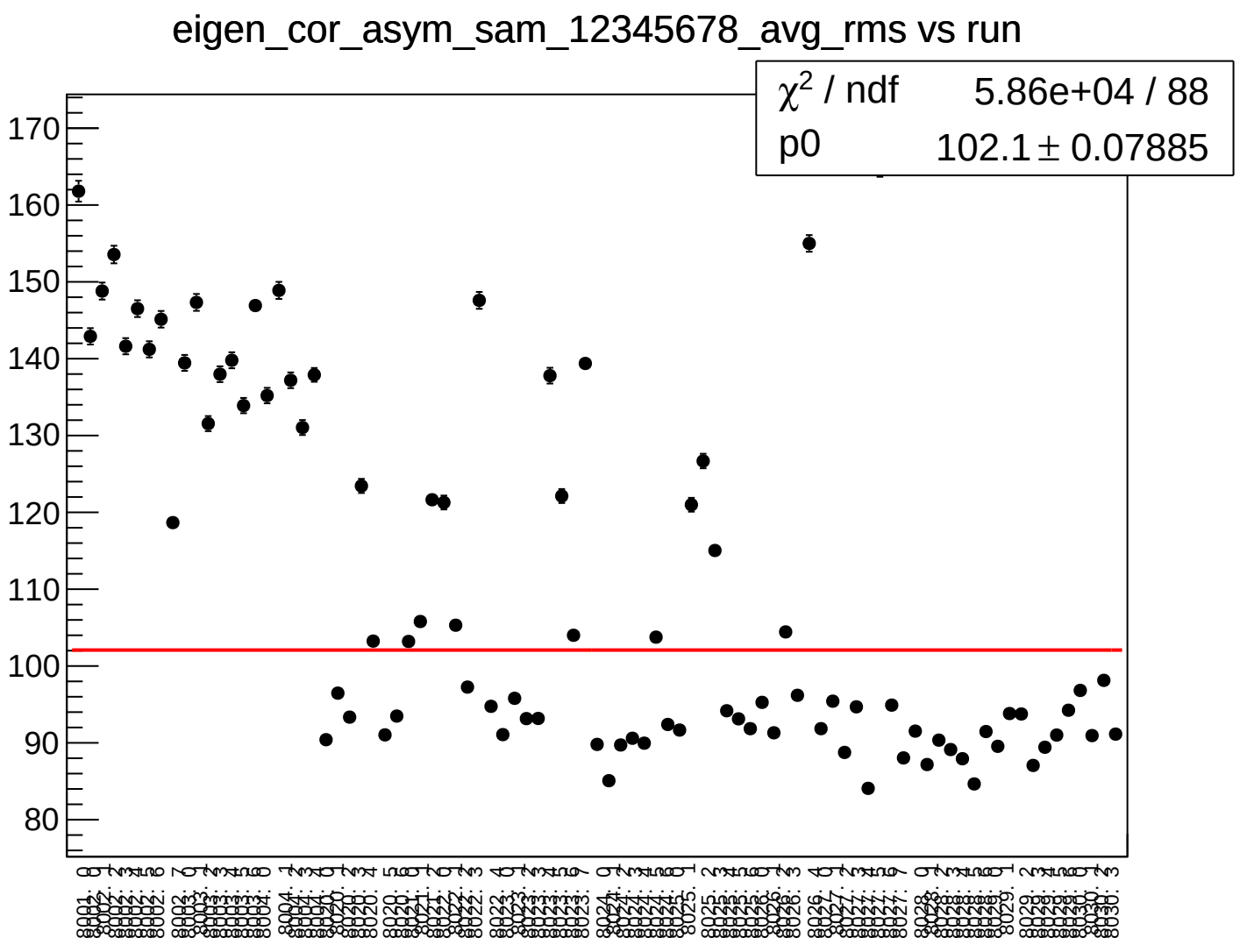

cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 74.21 / 88
p0 46.14 ± 111.5
pull
Entries 89
Mean −951.7
Std Dev 0
pull1D
Entries 89
Mean −0.001358
Std Dev 0.9132

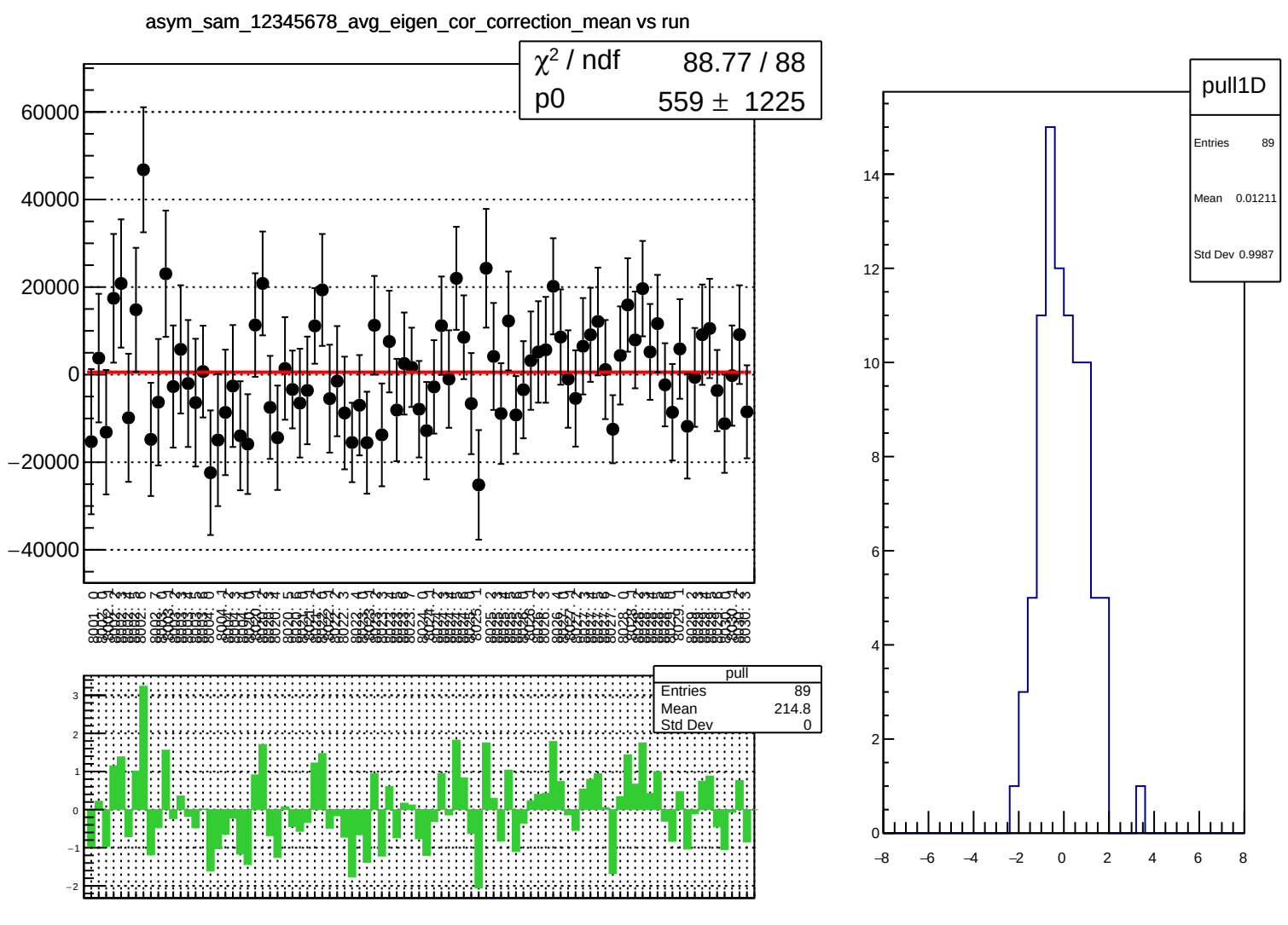

cor_asym_sam_12345678_avg_rms vs run
χ^2 / ndf 5.86e+04 / 88
p0 102.1 ± 0.07885
170
160
150
140
130
120
110
100
90
80

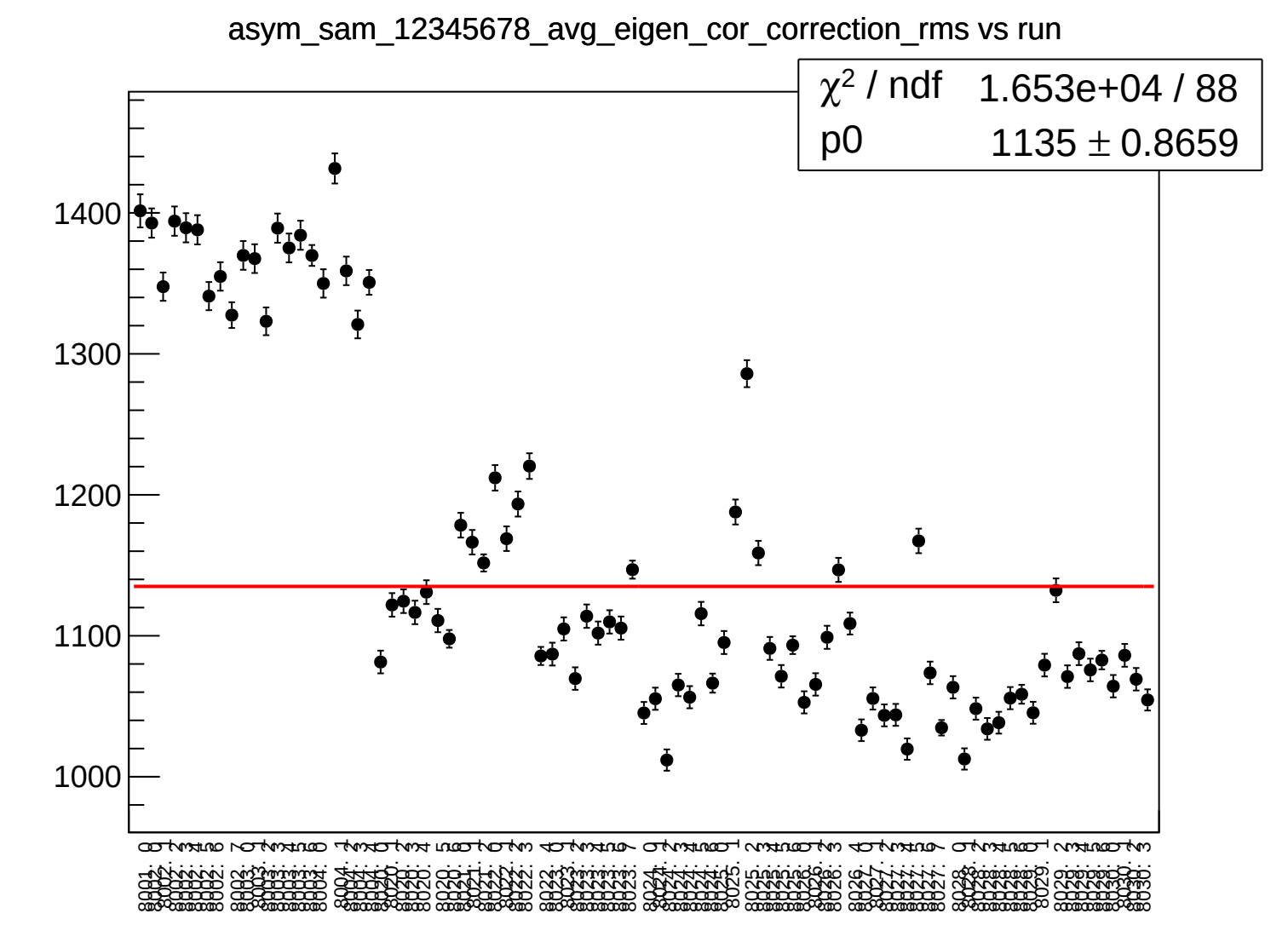

asym_sam_12345678_avg_cor_correction_mean vs run
χ² / ndf 88.77 / 88
p0 559 ± 1225
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 214.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.01211
Std Dev 0.9987
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

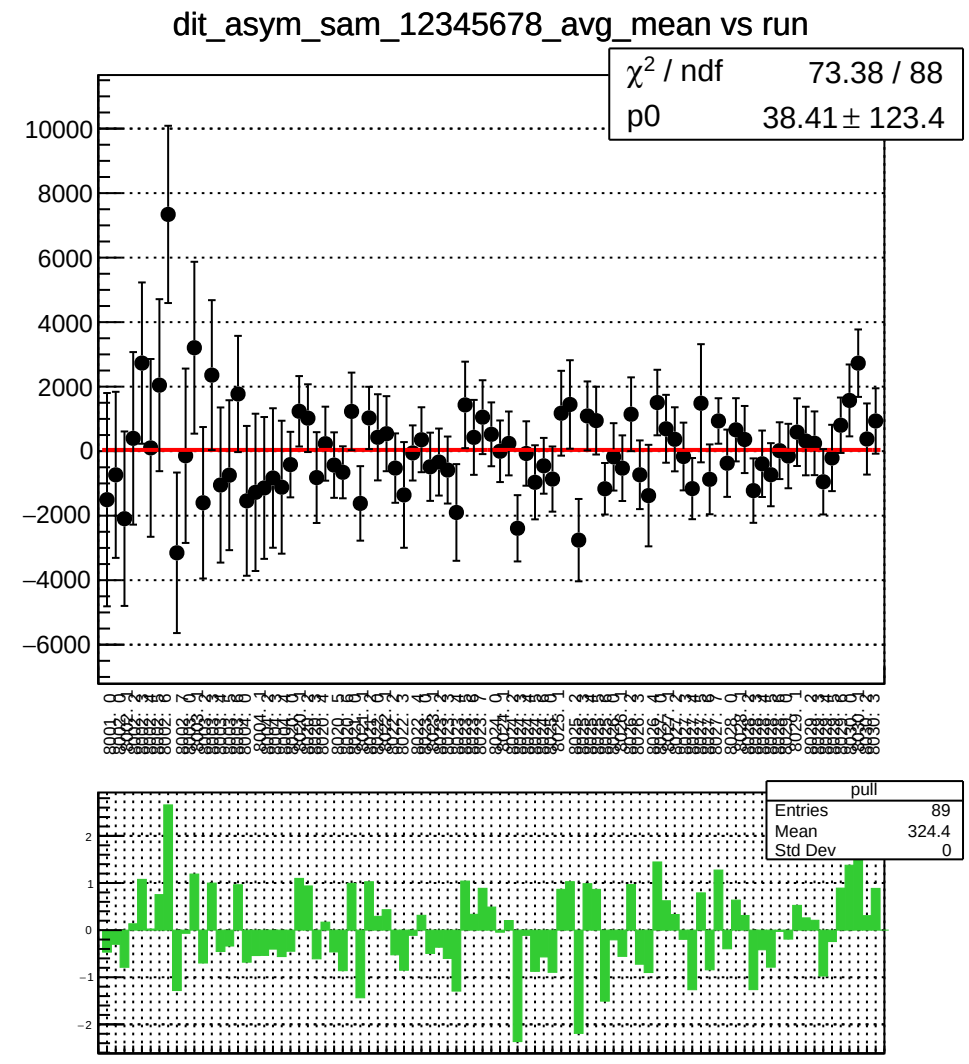

asym_sam_12345678_avg_cor_correction_rms vs run
χ² / ndf 1.653e+04 / 88
p0 1135 ± 0.8659
1400
1300
1200
1100
1000

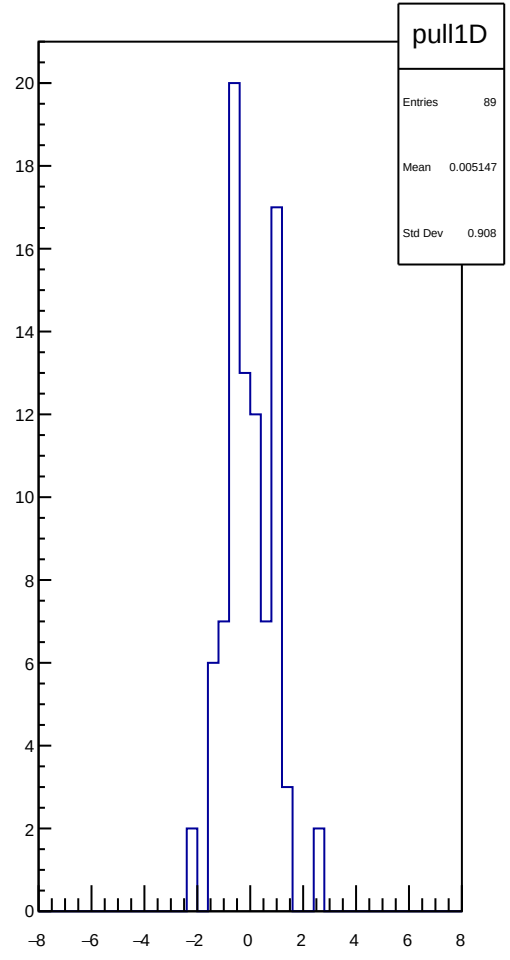

eigen_cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 74.21 / 88
p0 46.14 ± 111.5
pull
Entries 89
Mean −951.7
Std Dev 0
pull1D
Entries 89
Mean −0.001358
Std Dev 0.9132

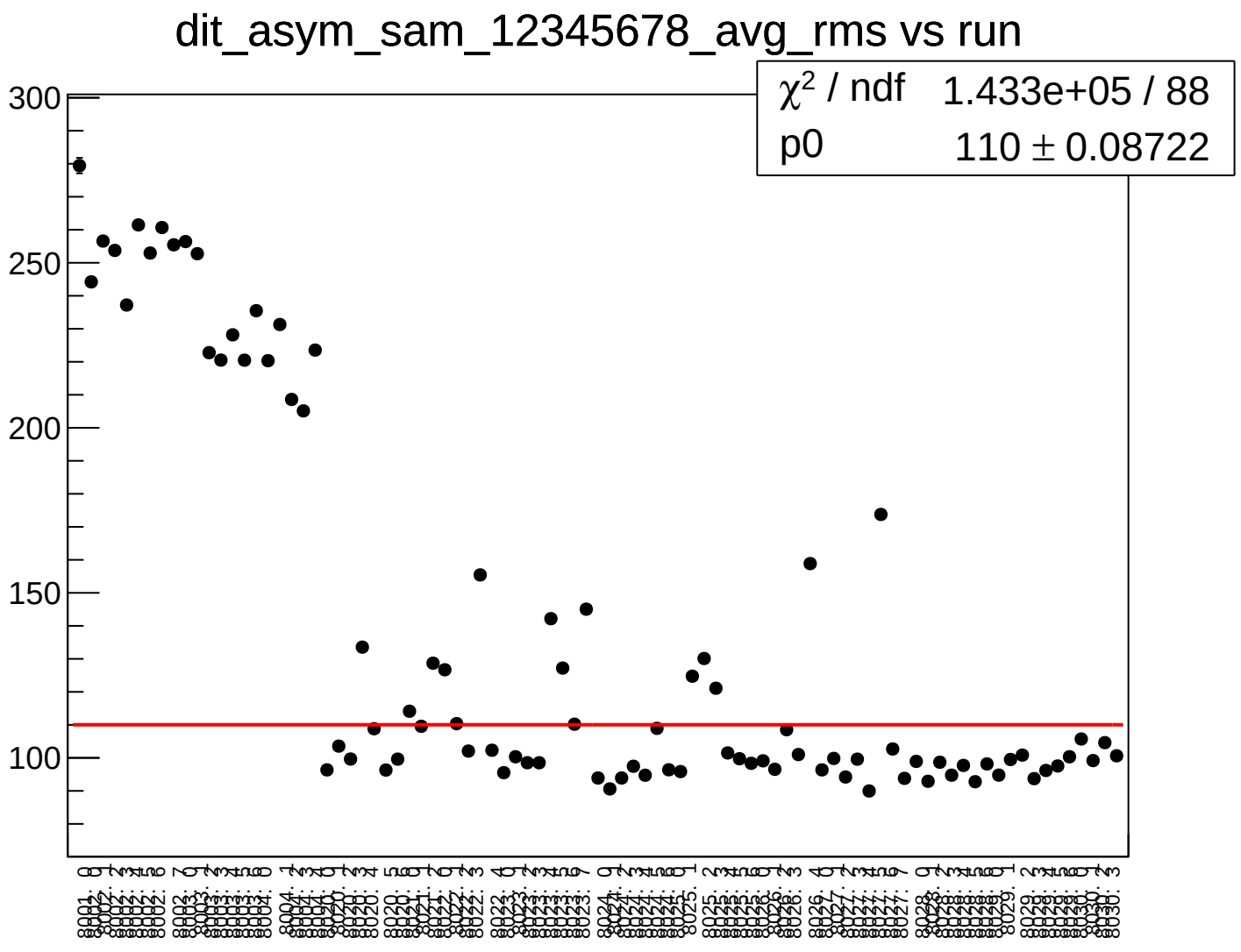

eigen_cor_asym_sam_12345678_avg_rms vs run
χ^2 / ndf 5.86e+04 / 88
p0 102.1 ± 0.07885
170
160
150
140
130
120
110
100
90
80

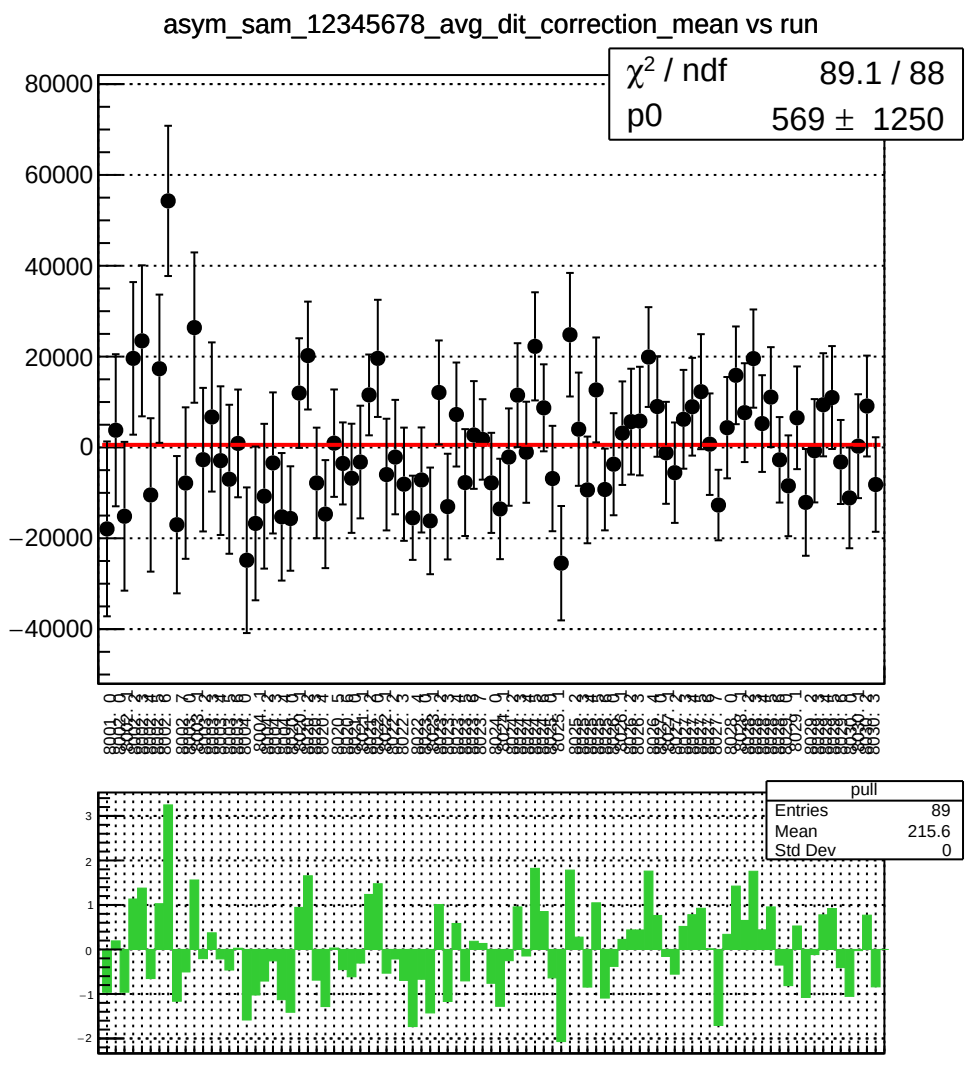

asym_sam_12345678_avg_eigen_cor_correction_mean vs run
χ² / ndf 88.77 / 88
p0 559 ± 1225
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 214.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.01211
Std Dev 0.9987
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

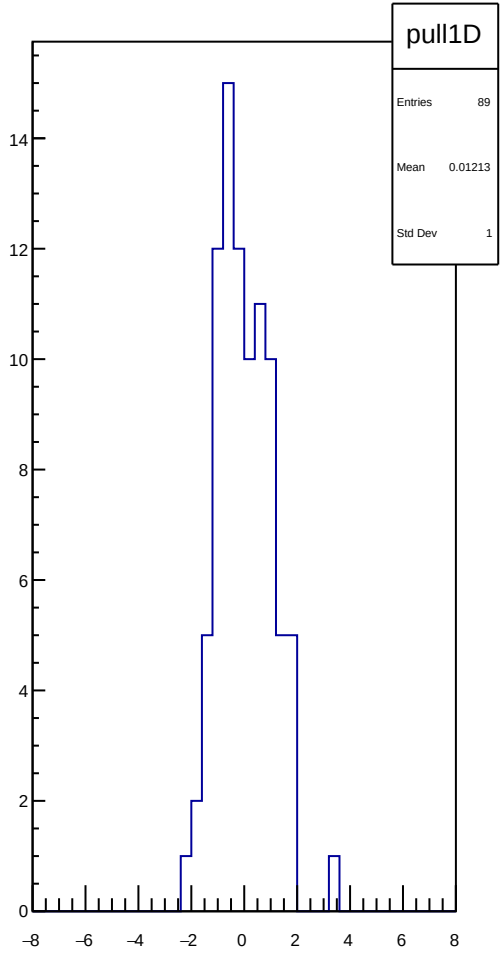

asym_sam_12345678_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.653e+04 / 88
p0 1135 ± 0.8659
1400
1300
1200
1100
1000

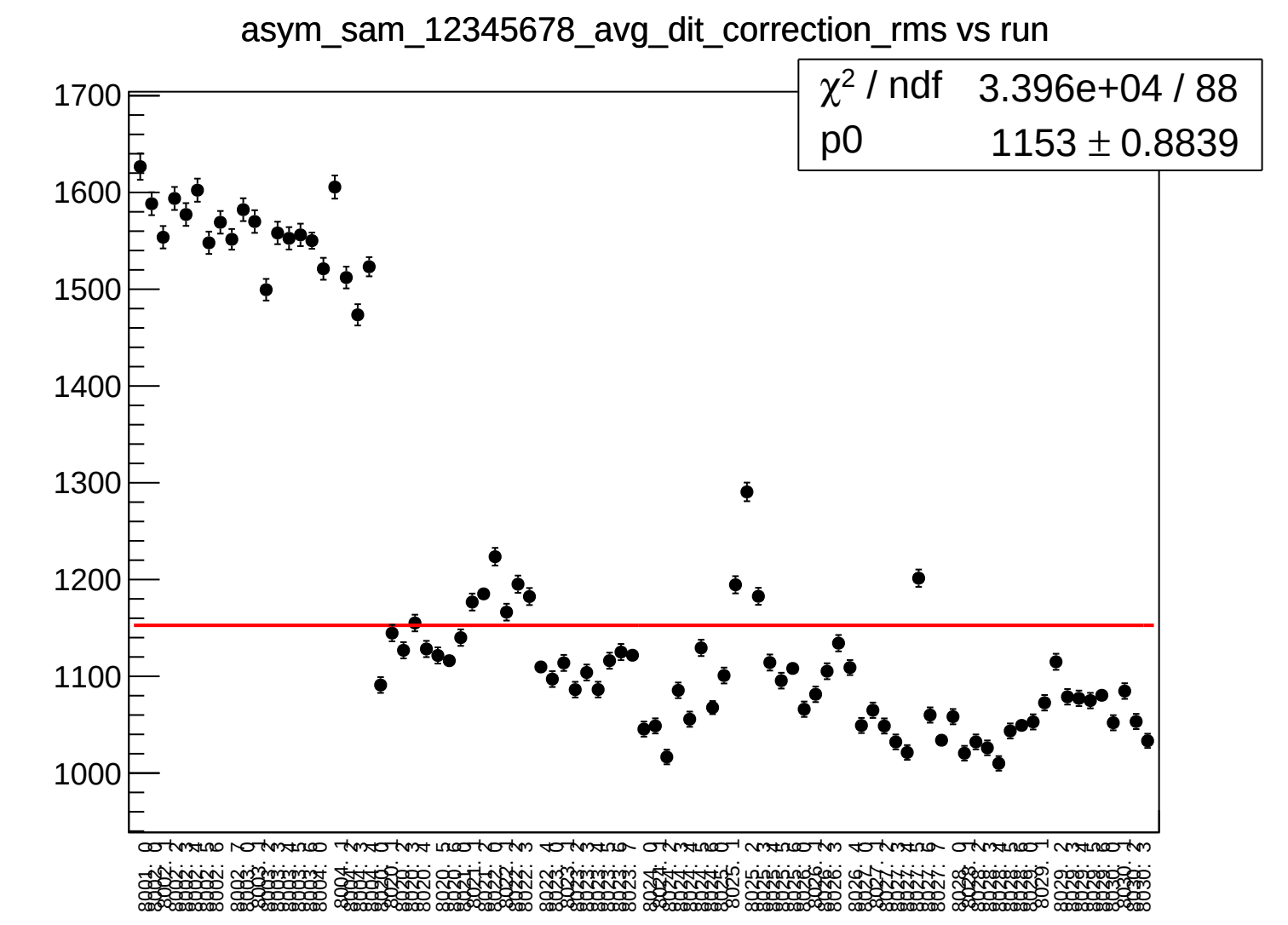

dit_asym_sam_12345678_avg_mean vs run
χ^2 / ndf 73.38 / 88
p0 38.41 ± 123.4
pull
Entries 89
Mean 324.4
Std Dev 0

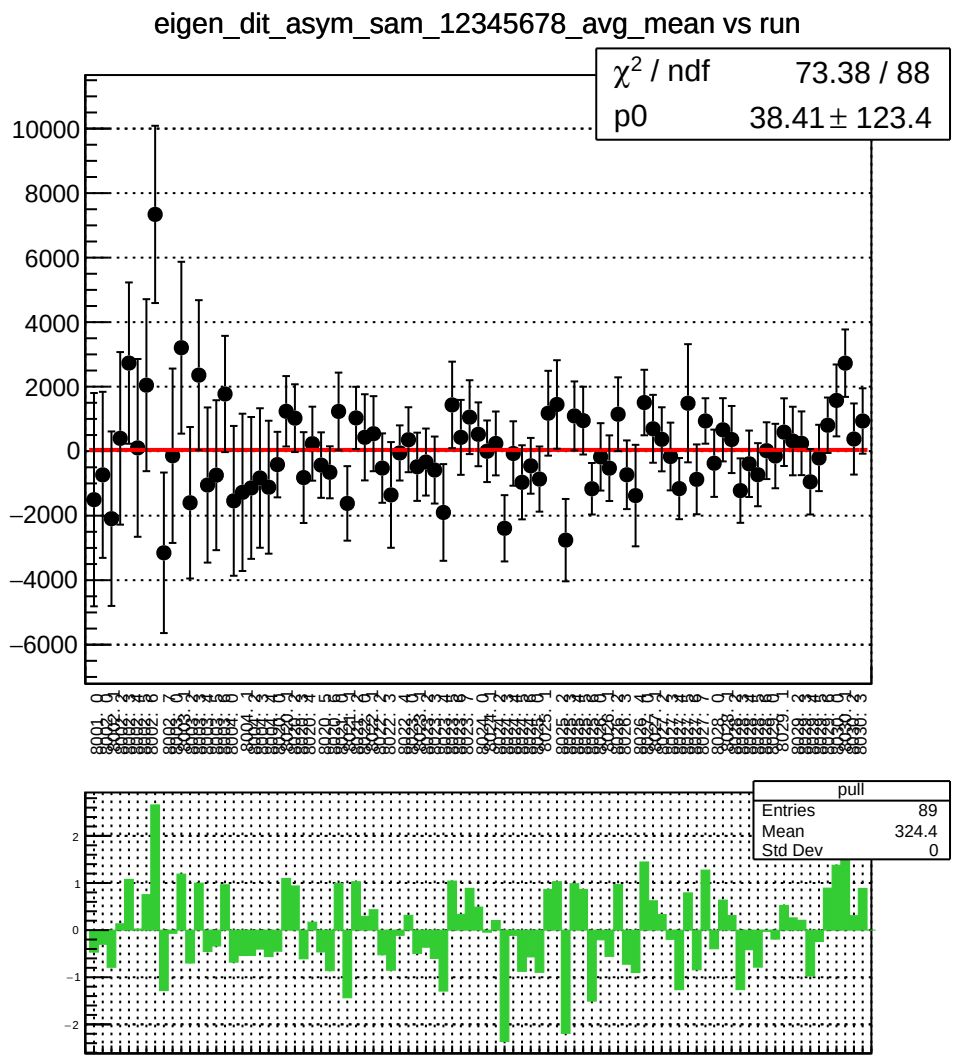

pull1D
Entries 89
Mean 0.005147
Std Dev 0.908

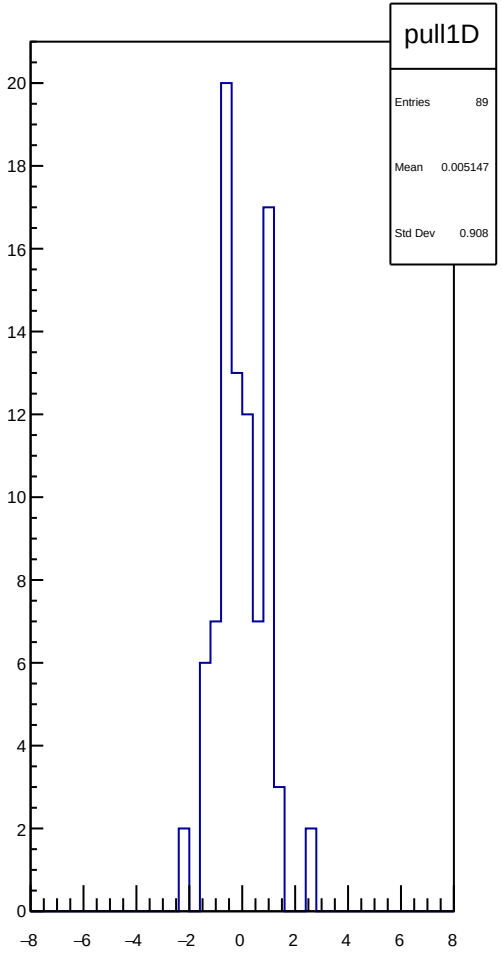

dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.433e+05 / 88
p0 110 ± 0.08722
300
250
200
150
100

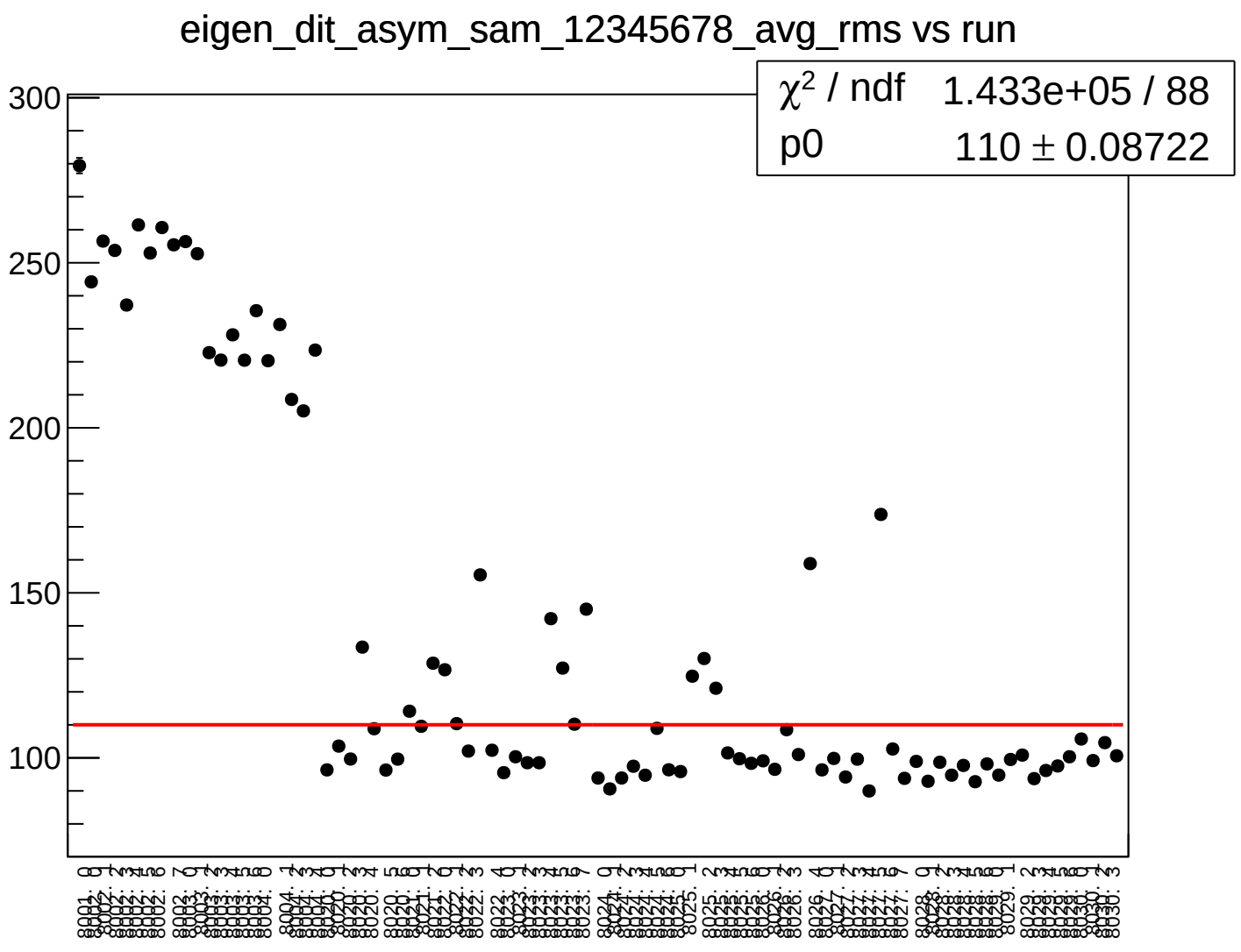

asym_sam_12345678_avg_dit_correction_mean vs run
χ² / ndf 89.1 / 88
p0 569 ± 1250
80000
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 215.6
Std Dev 0
3
2
1
0
−1
−2

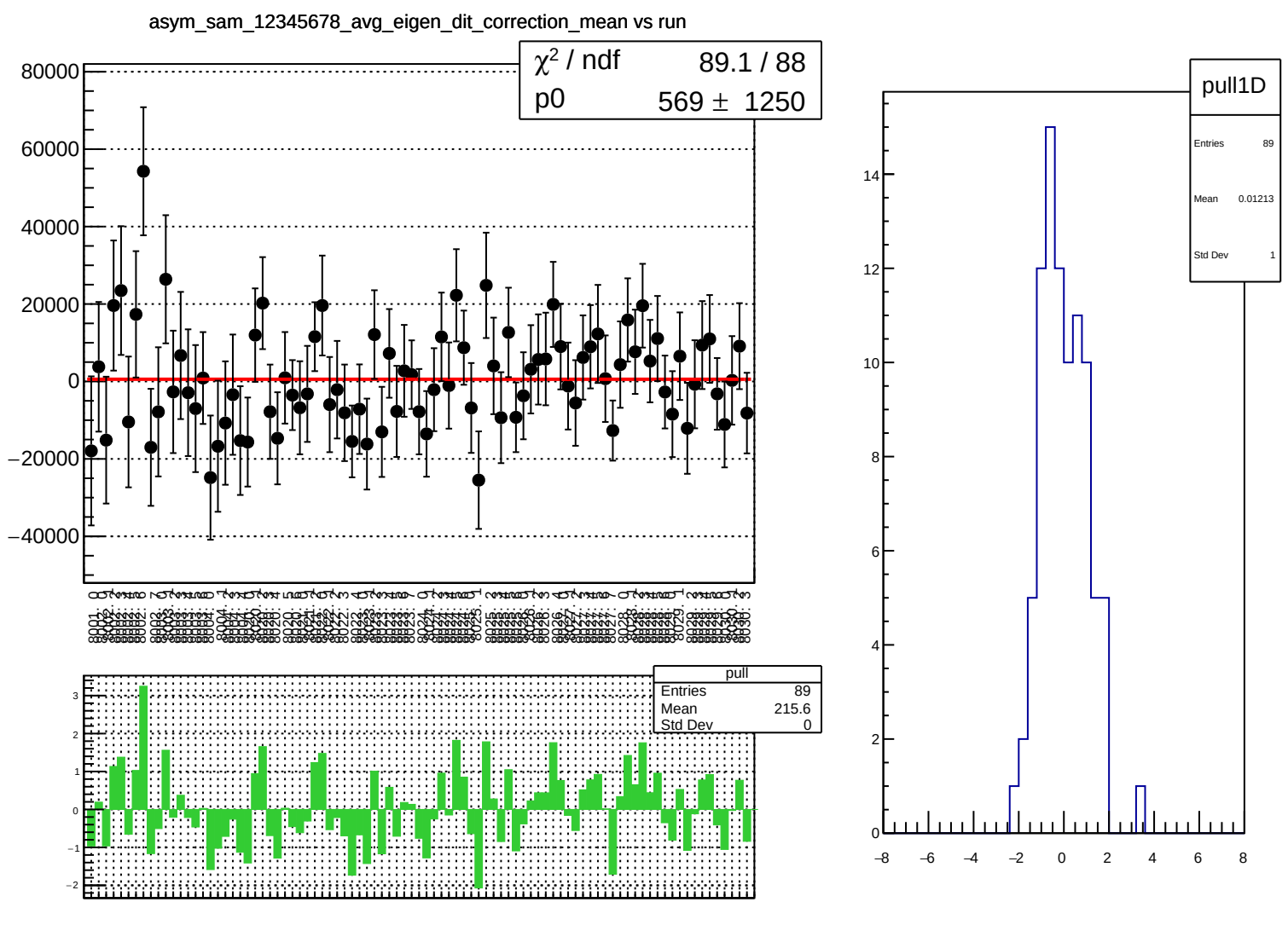

pull1D
Entries 89
Mean 0.01213
Std Dev 1
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

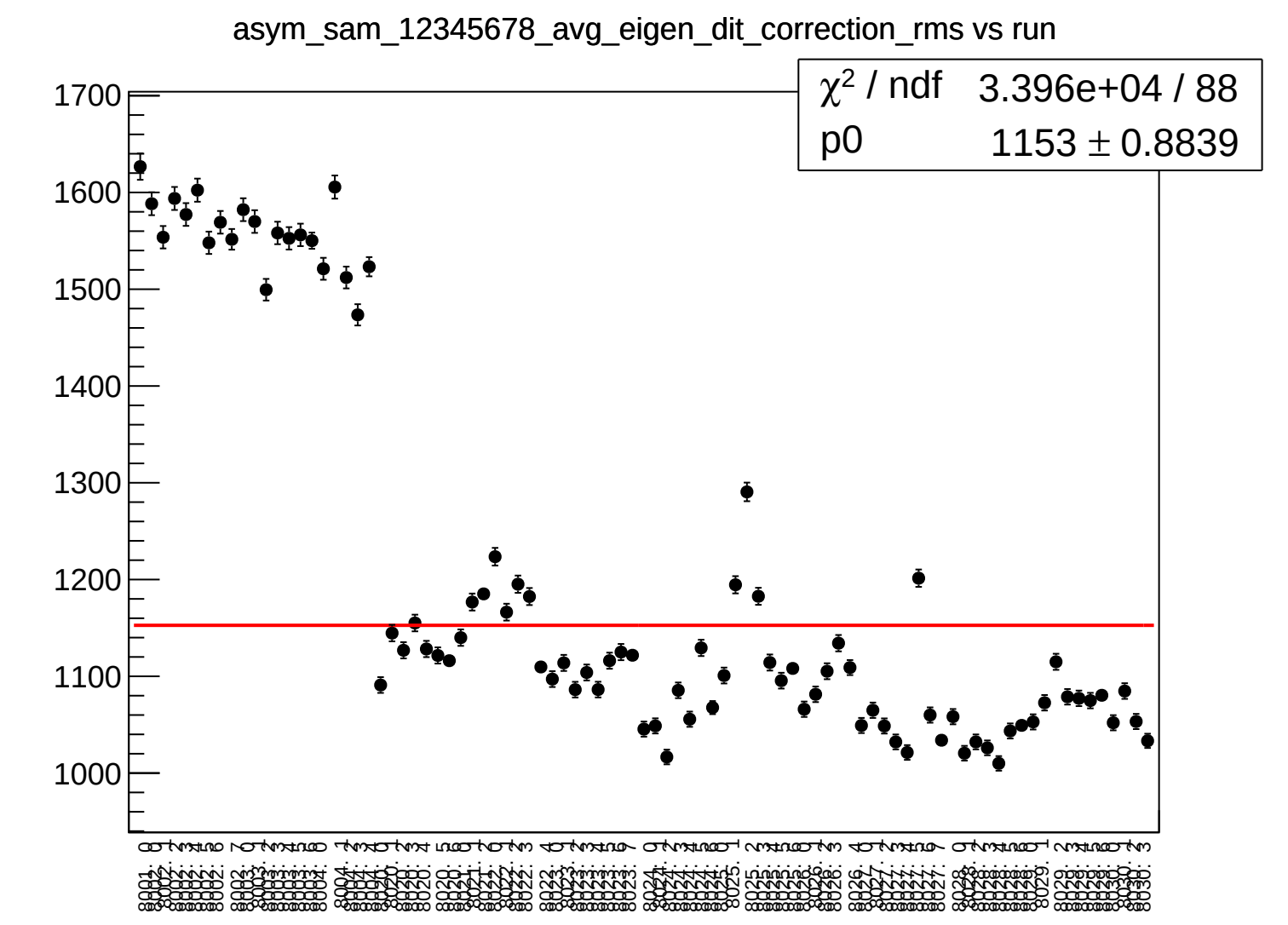

asym_sam_12345678_avg_dit_correction_rms vs run
χ² / ndf 3.396e+04 / 88
p0 1153 ± 0.8839
1700
1600
1500
1400
1300
1200
1100
1000

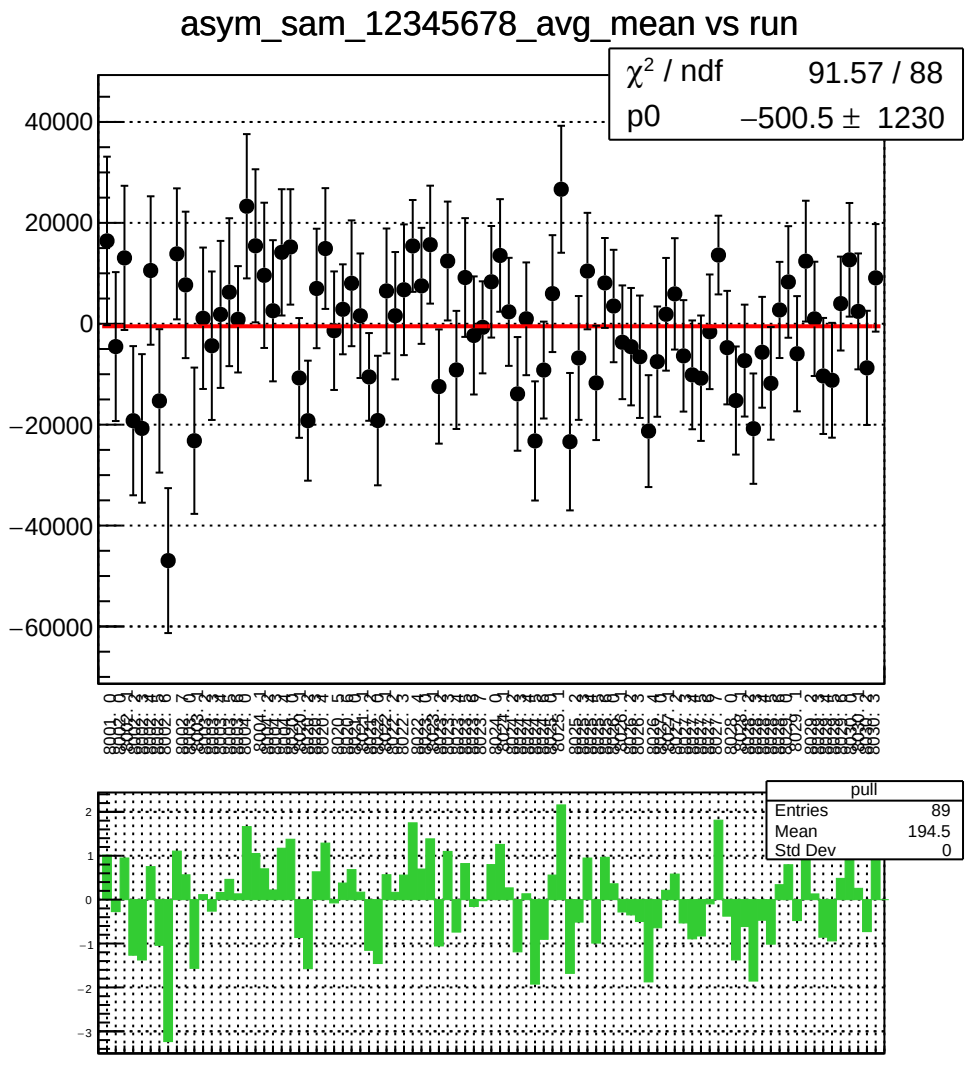

eigen_dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 73.38 / 88
p0 38.41 ± 123.4
pull
Entries 89
Mean 324.4
Std Dev 0

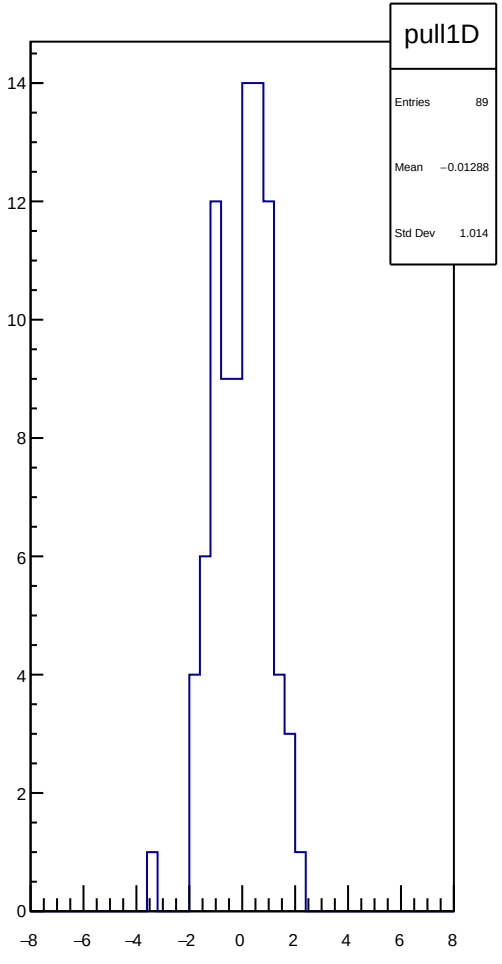

pull1D
Entries 89
Mean 0.005147
Std Dev 0.908

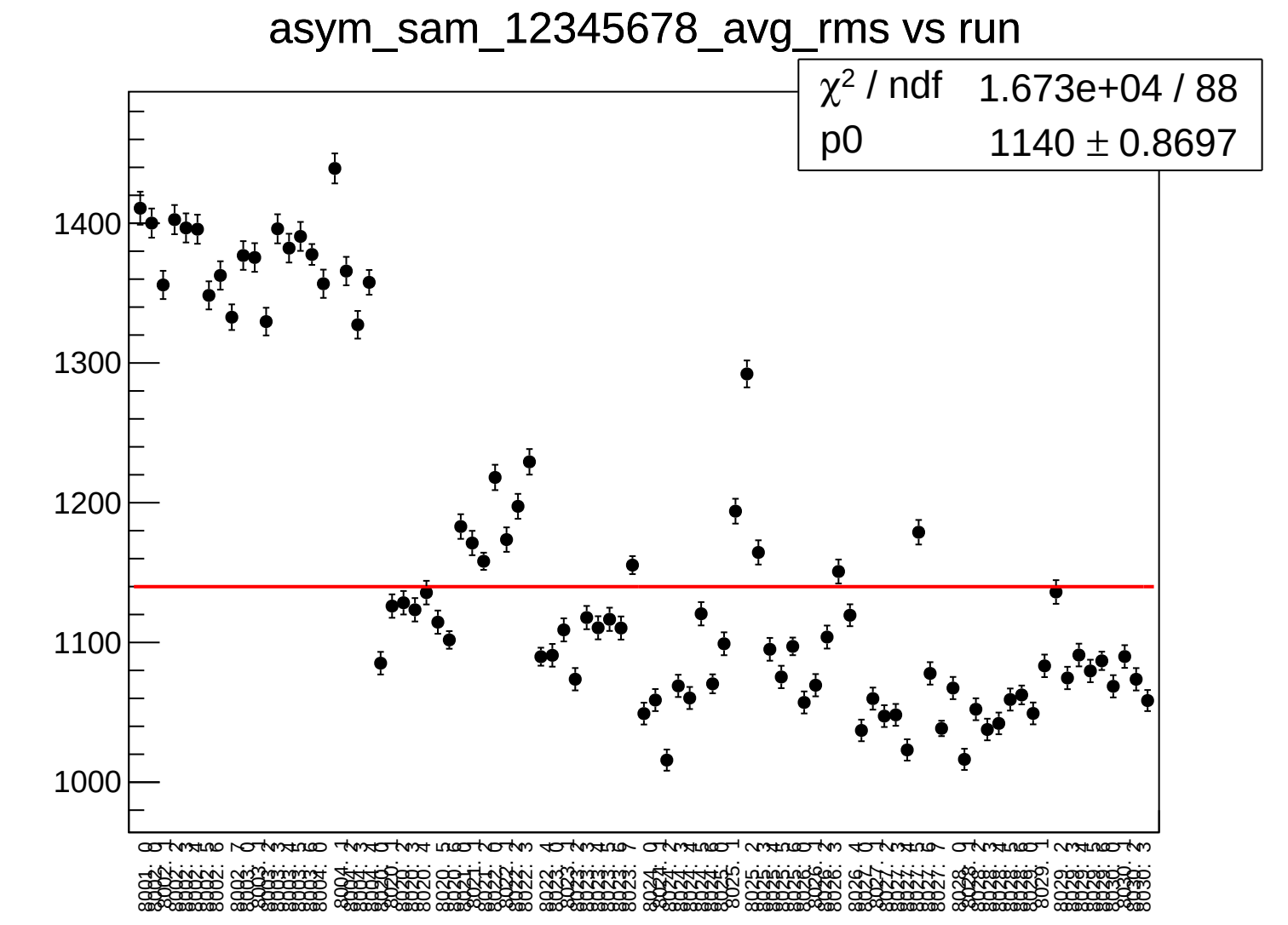

eigen_dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.433e+05 / 88
p0 110 ± 0.08722
300
250
200
150
100

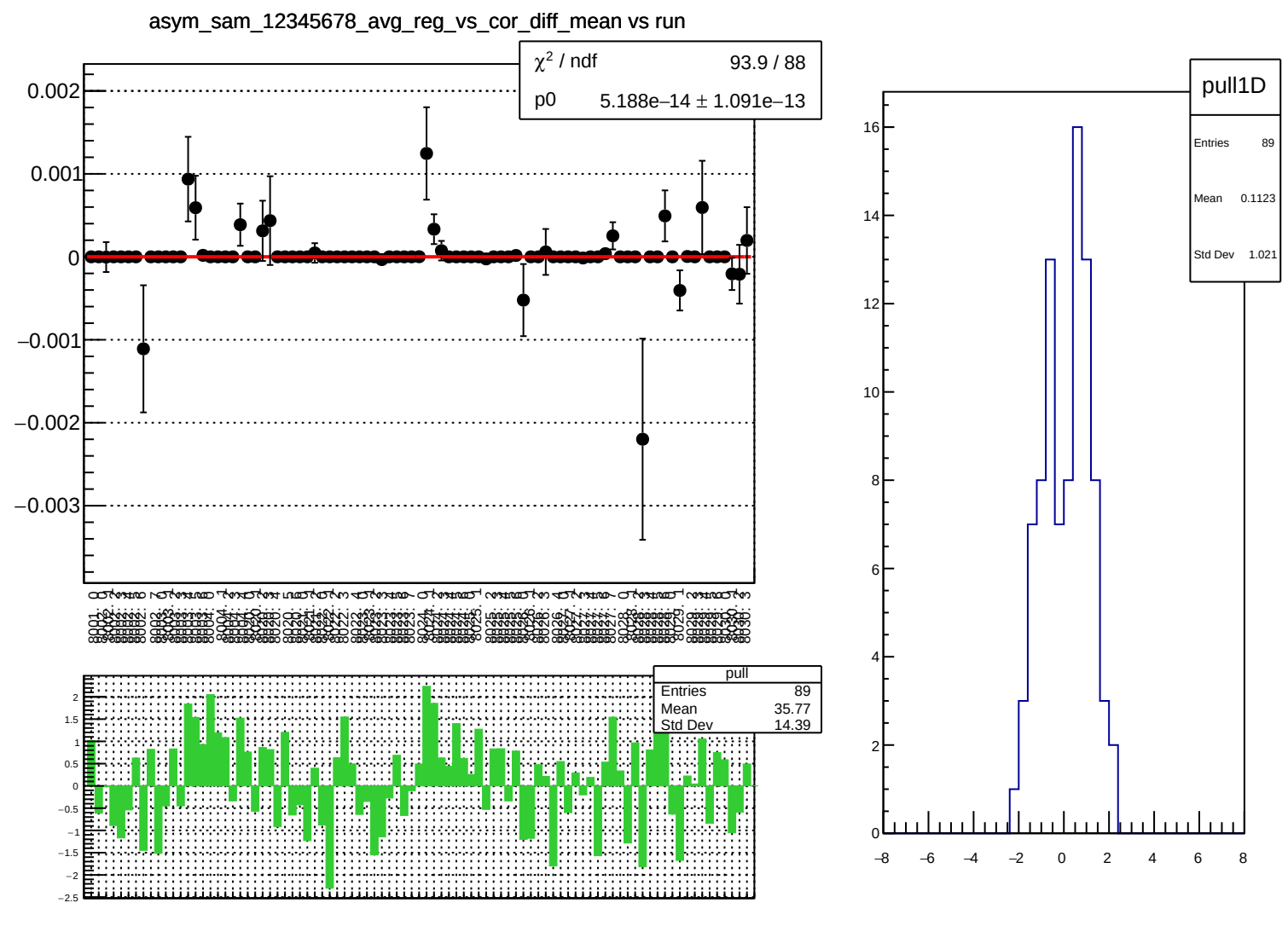

asym_sam_12345678_avg_eigen_dit_correction_mean vs run
χ² / ndf 89.1 / 88
p0 569 ± 1250
pull
Entries 89
Mean 215.6
Std Dev 0
pull1D
Entries 89
Mean 0.01213
Std Dev 1

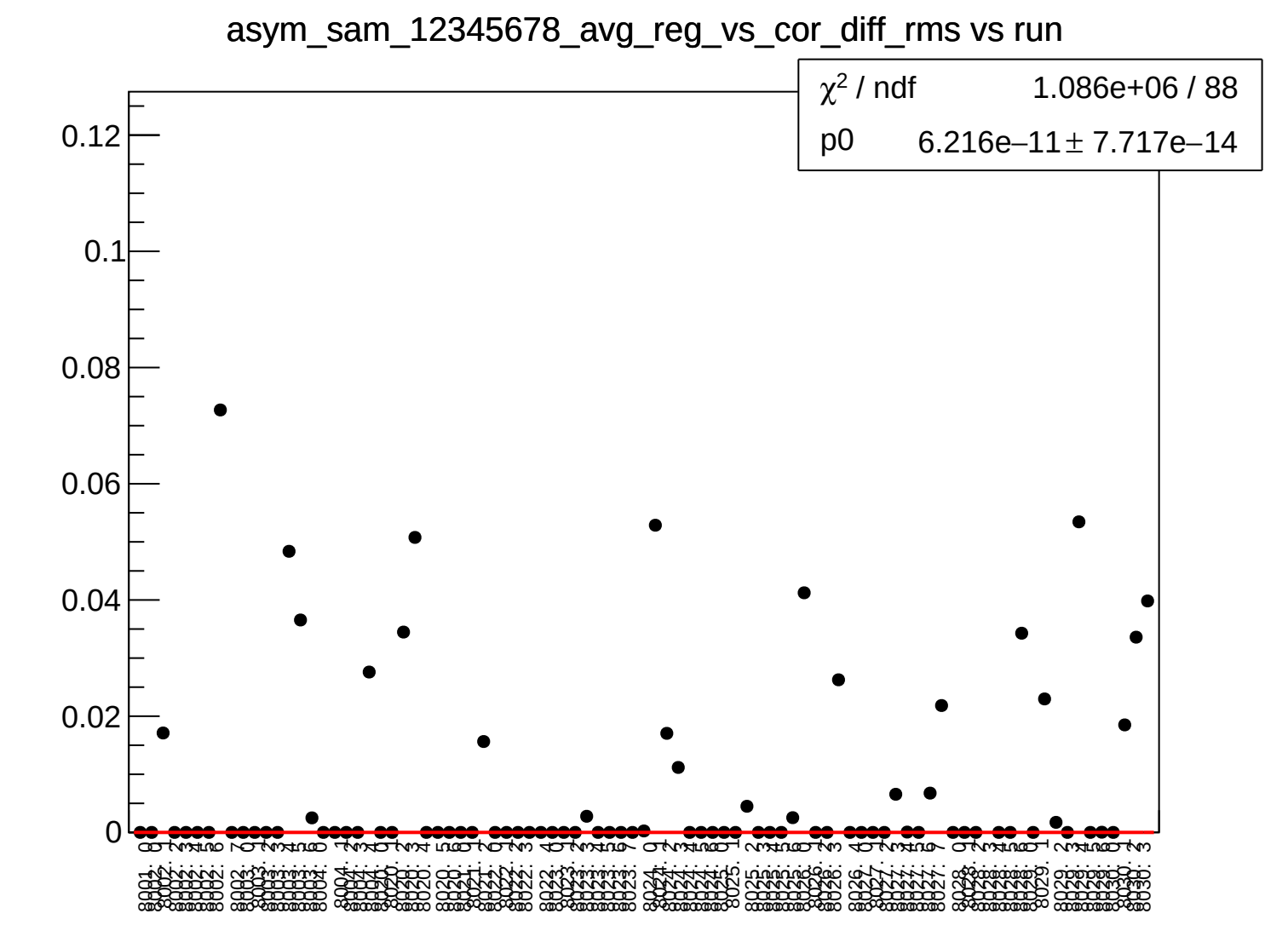

asym_sam_12345678_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.396e+04 / 88
p0 1153 ± 0.8839
1700
1600
1500
1400
1300
1200
1100
1000

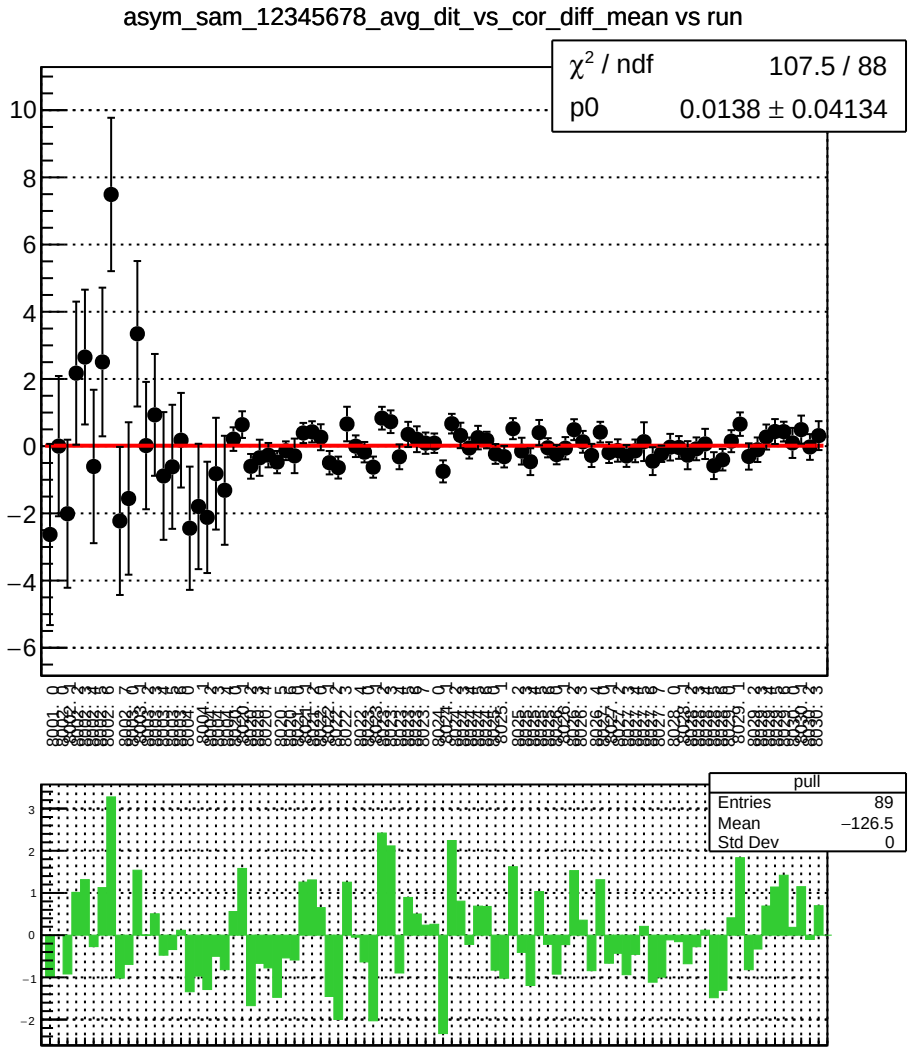

asym_sam_12345678_avg_mean vs run
χ² / ndf 91.57 / 88
p0 −500.5 ± 1230
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 194.5
Std Dev 0
2
1
0
−1
−2
−3

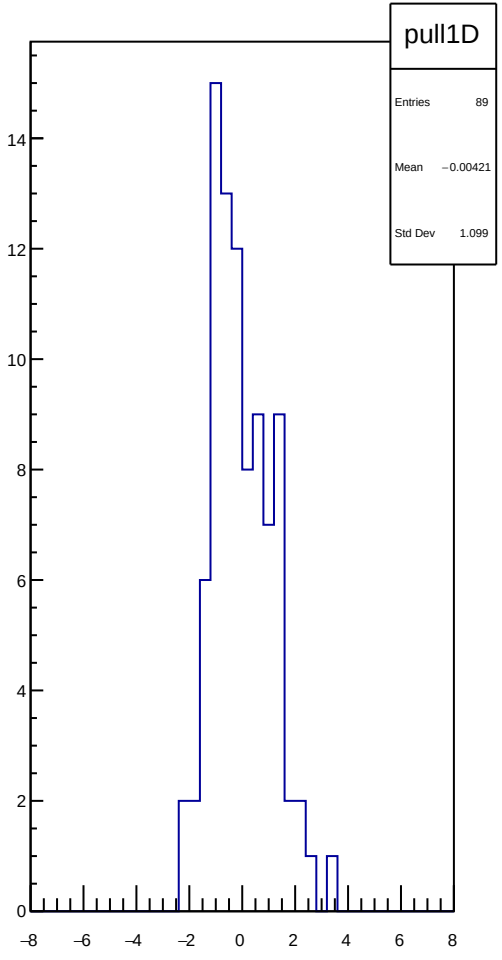

pull1D
Entries 89
Mean −0.01288
Std Dev 1.014
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

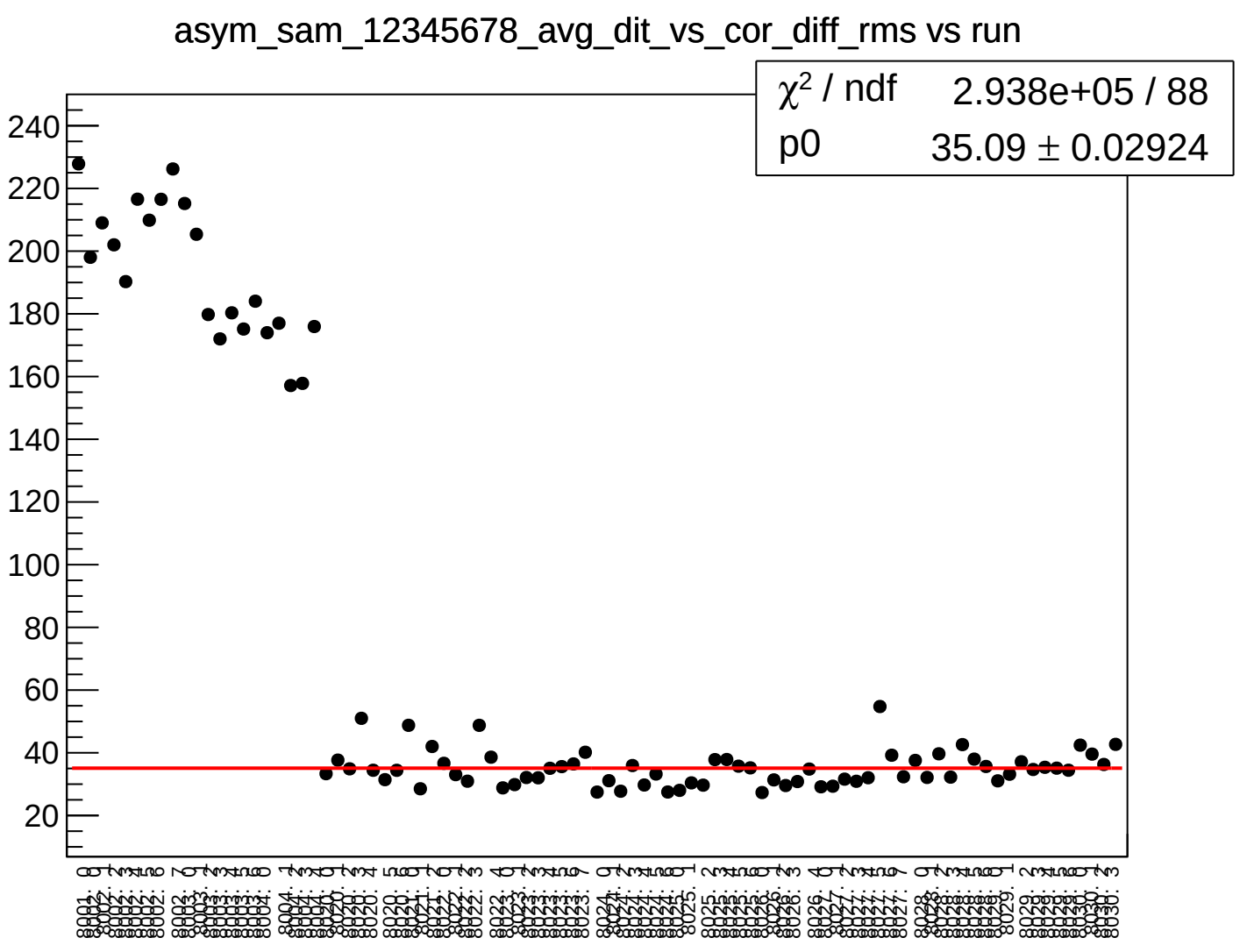

asym_sam_12345678_avg_rms vs run
χ² / ndf 1.673e+04 / 88
p0 1140 ± 0.8697
1400
1300
1200
1100
1000

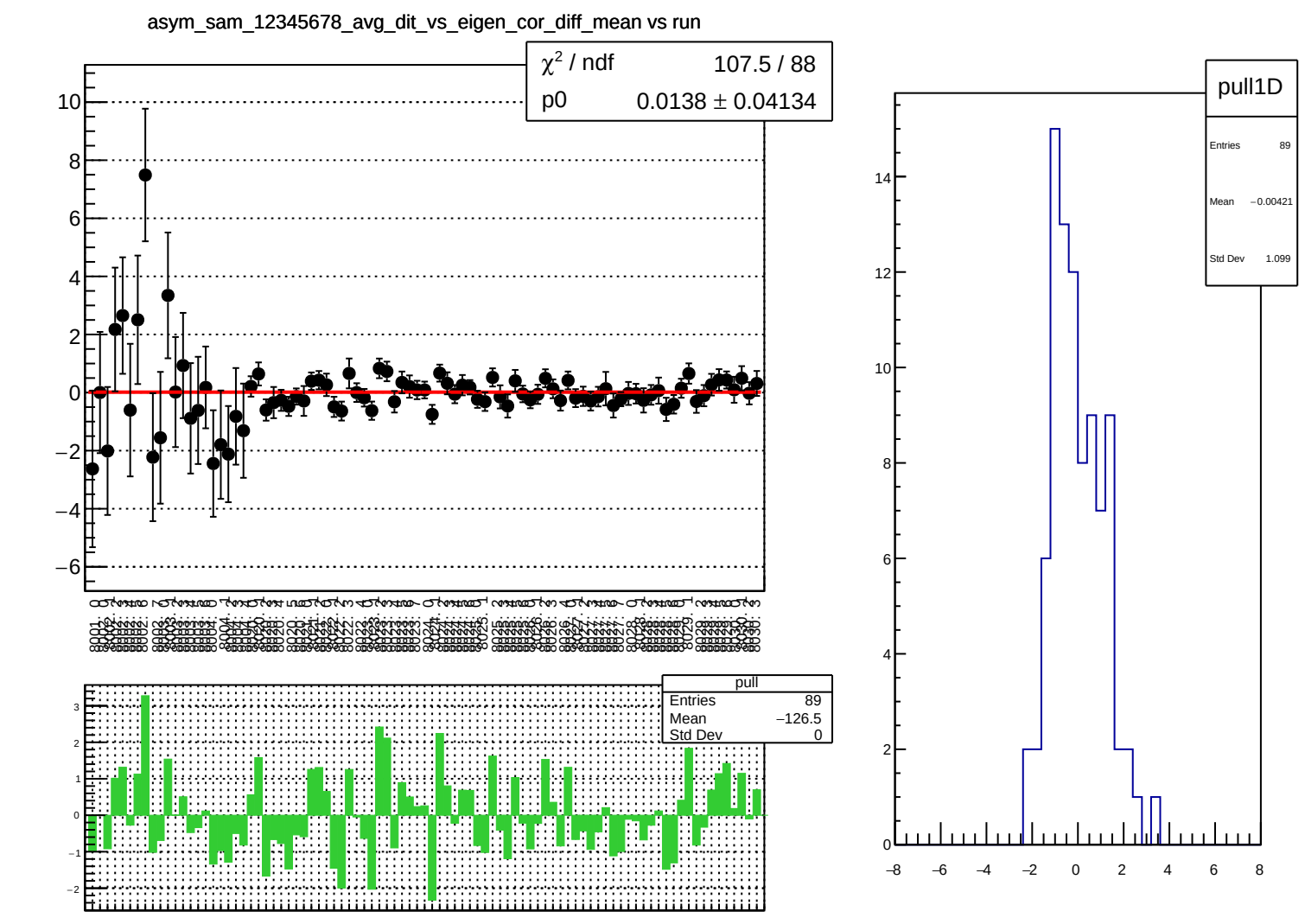

asym_sam_12345678_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 93.9 / 88
p0 5.188e−14 ± 1.091e−13
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 89
Mean 35.77
Std Dev 14.39
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 89
Mean 0.1123
Std Dev 1.021
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

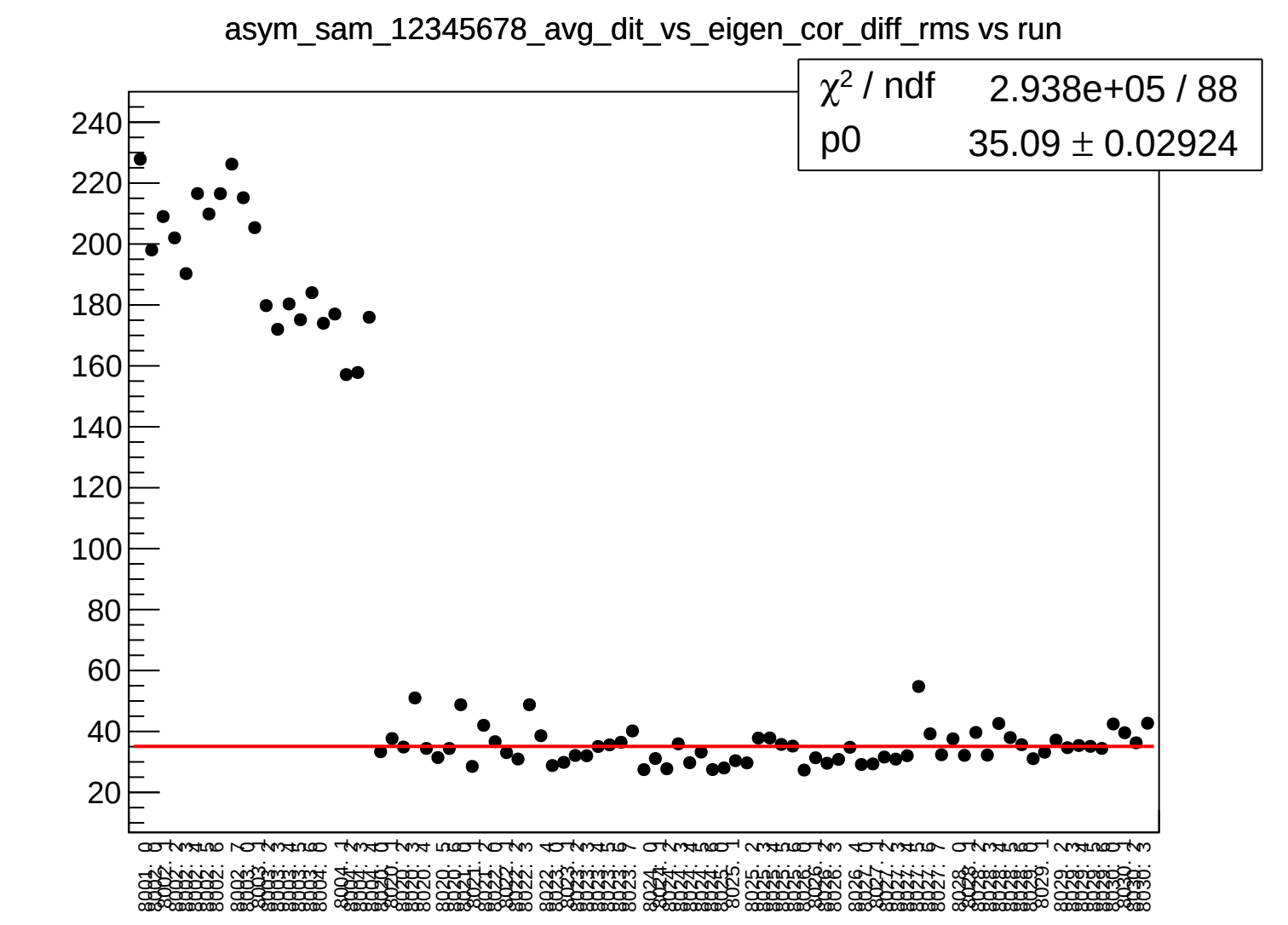

asym_sam_12345678_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.086e+06 / 88
p0 6.216e−11 ± 7.717e−14
0.12
0.1
0.08
0.06
0.04
0.02
0

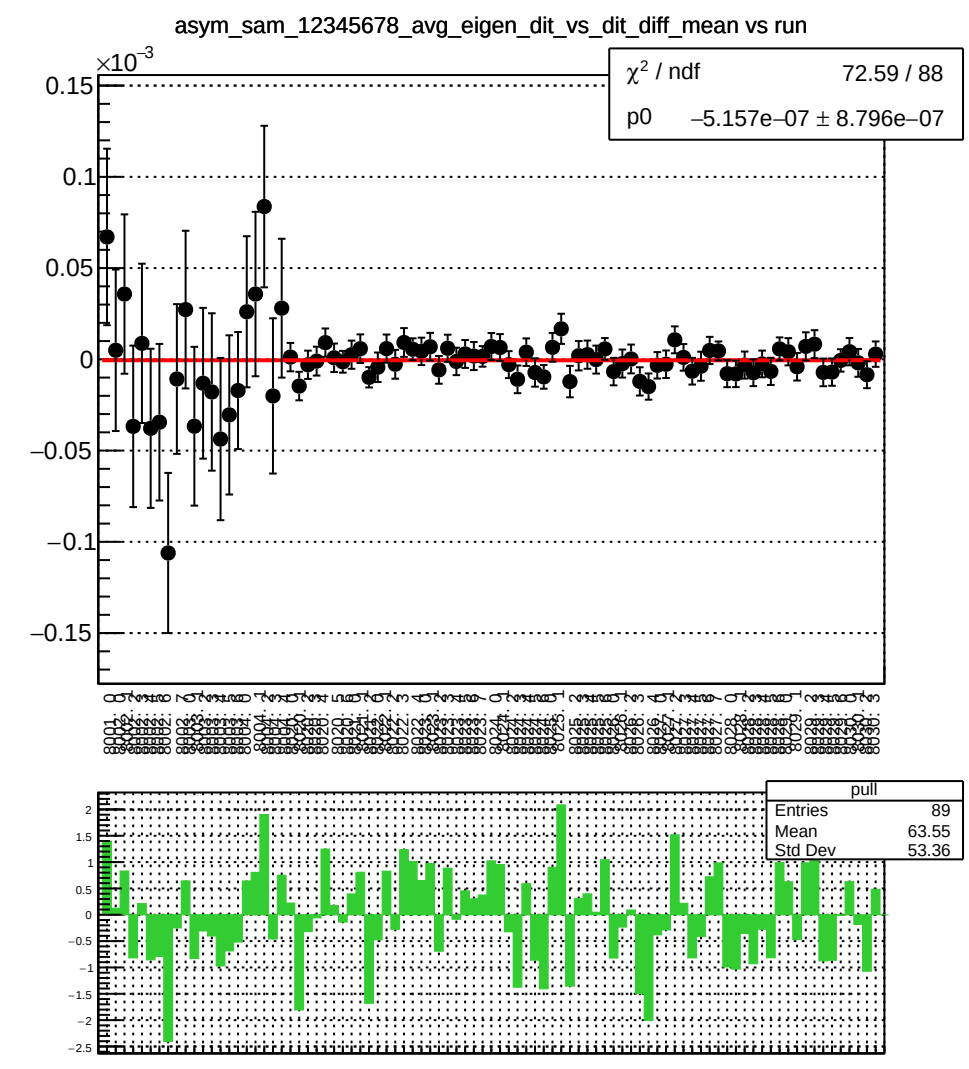

asym_sam_12345678_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 107.5 / 88
p0 0.0138 ± 0.04134
pull
Entries 89
Mean −126.5
Std Dev 0

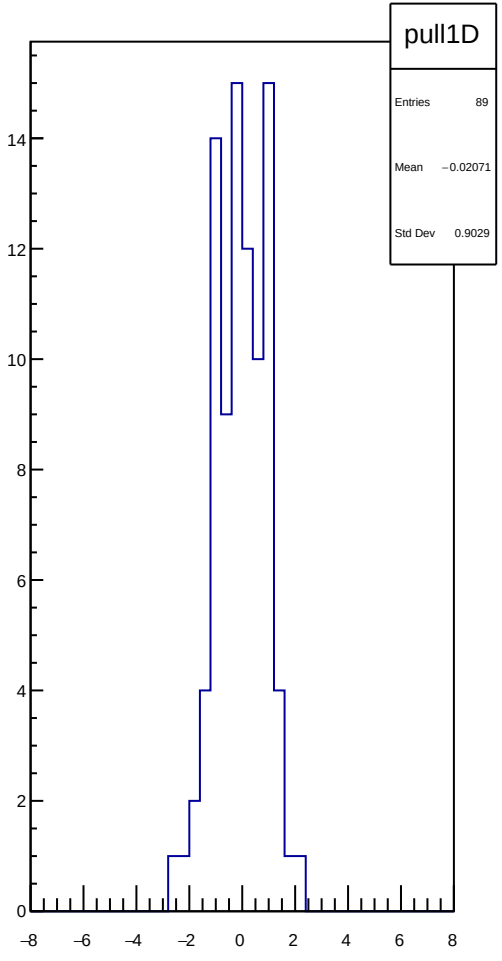

pull1D
Entries 89
Mean −0.00421
Std Dev 1.099

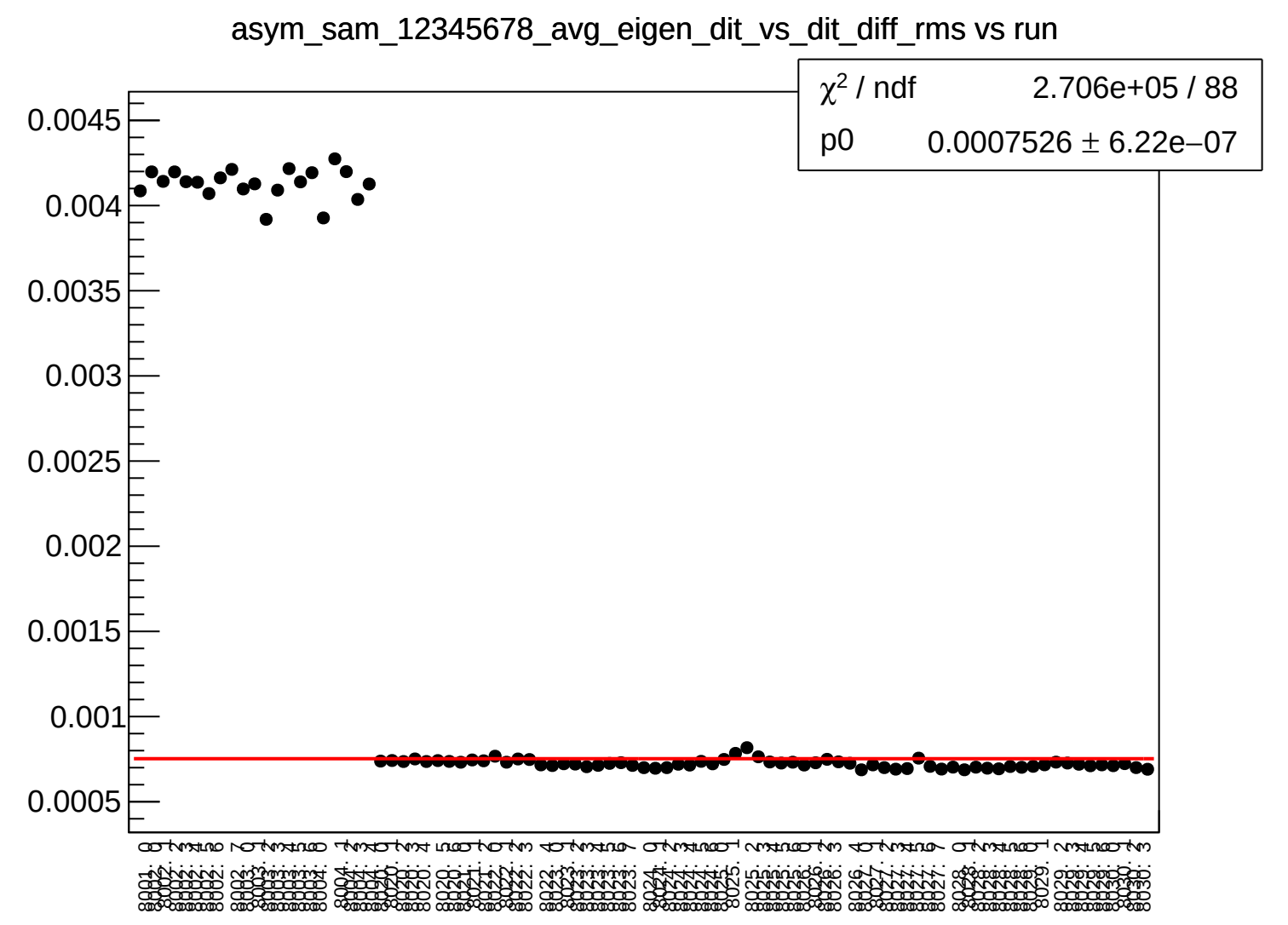

asym_sam_12345678_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.938e+05 / 88
p0 35.09 ± 0.02924
240
220
200
180
160
140
120
100
80
60
40
20

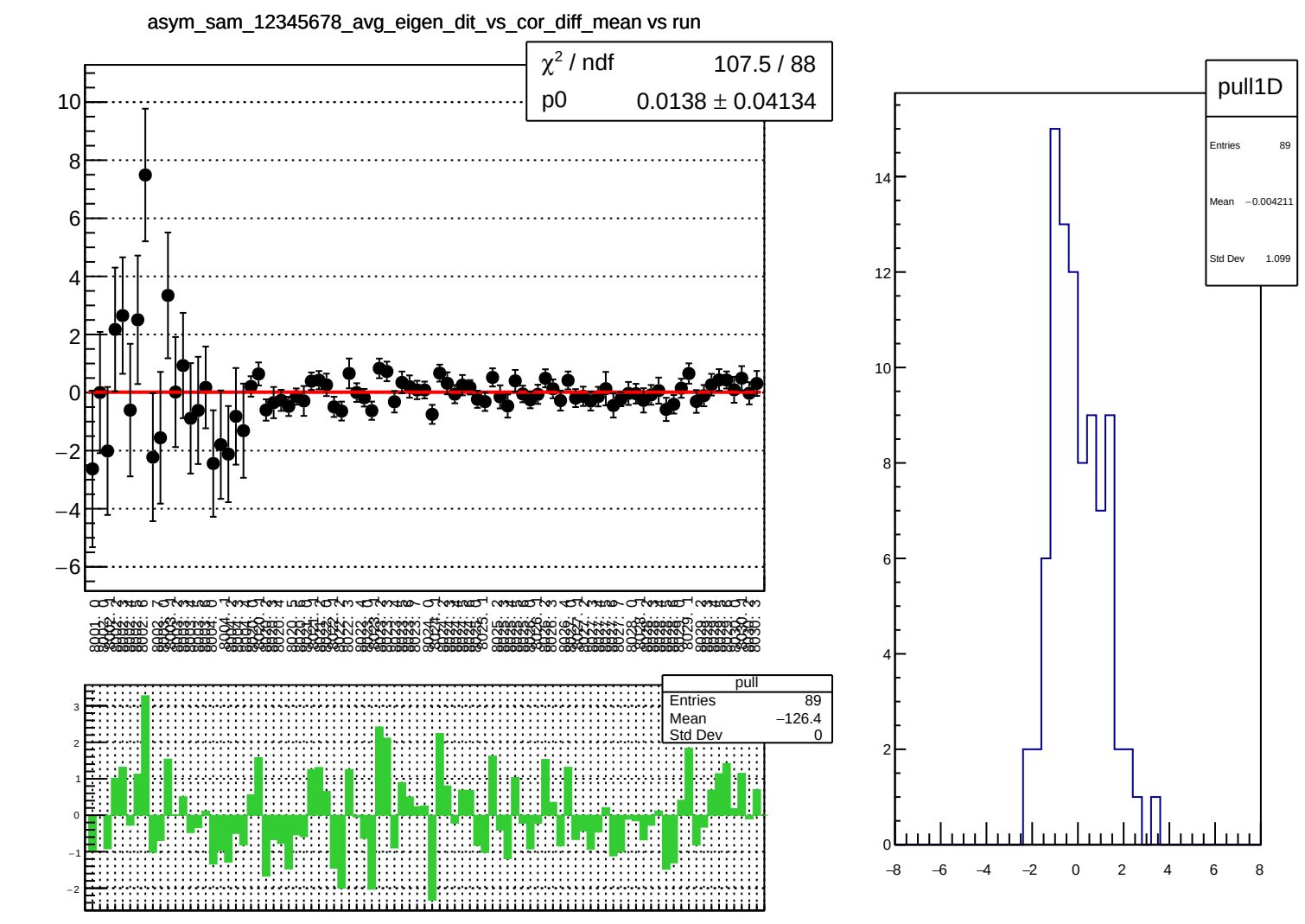

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.5 / 88
p0 0.0138 ± 0.04134
pull
Entries 89
Mean −126.5
Std Dev 0
pull1D
Entries 89
Mean −0.00421
Std Dev 1.099

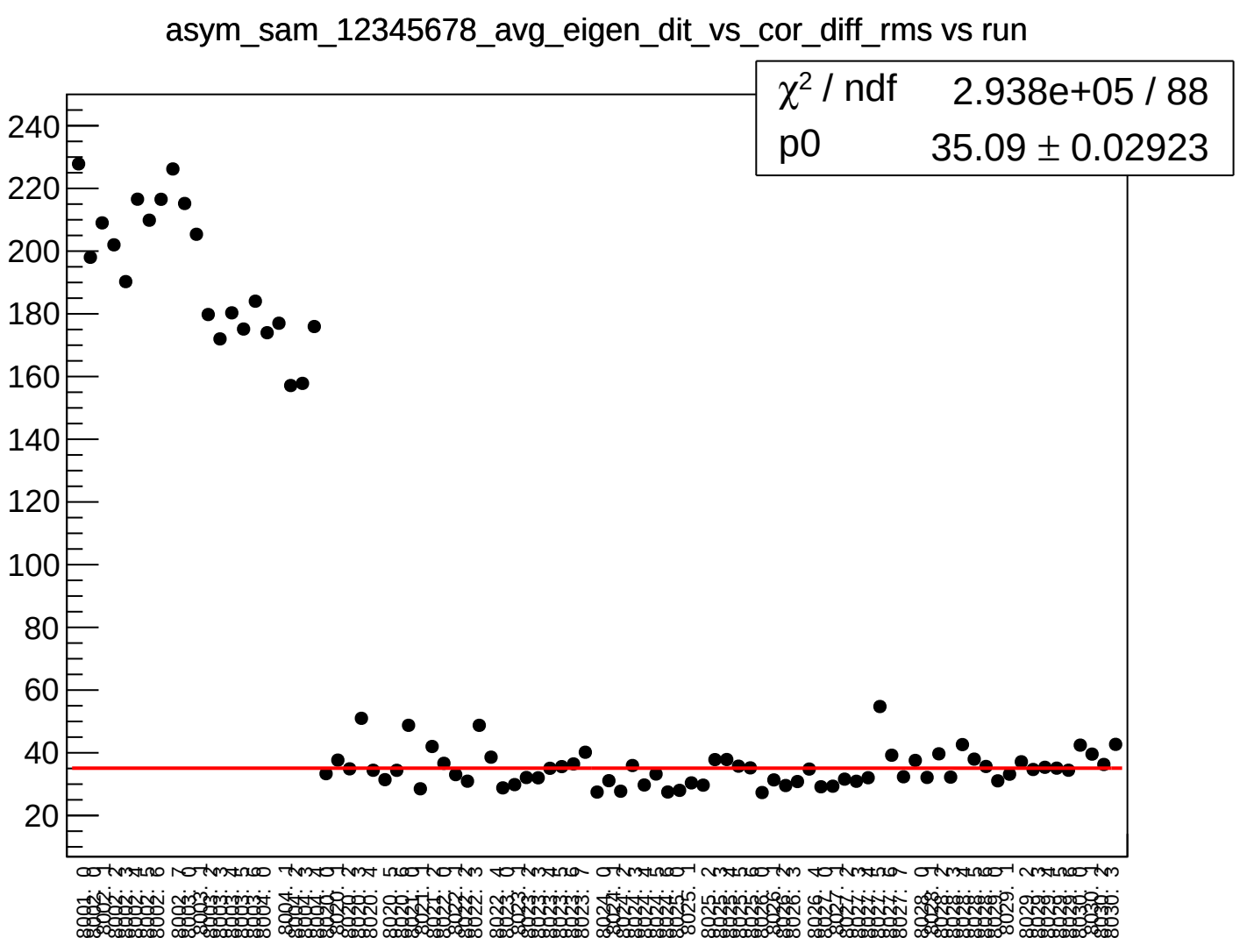

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.938e+05 / 88
p0 35.09 ± 0.02924
240
220
200
180
160
140
120
100
80
60
40
20

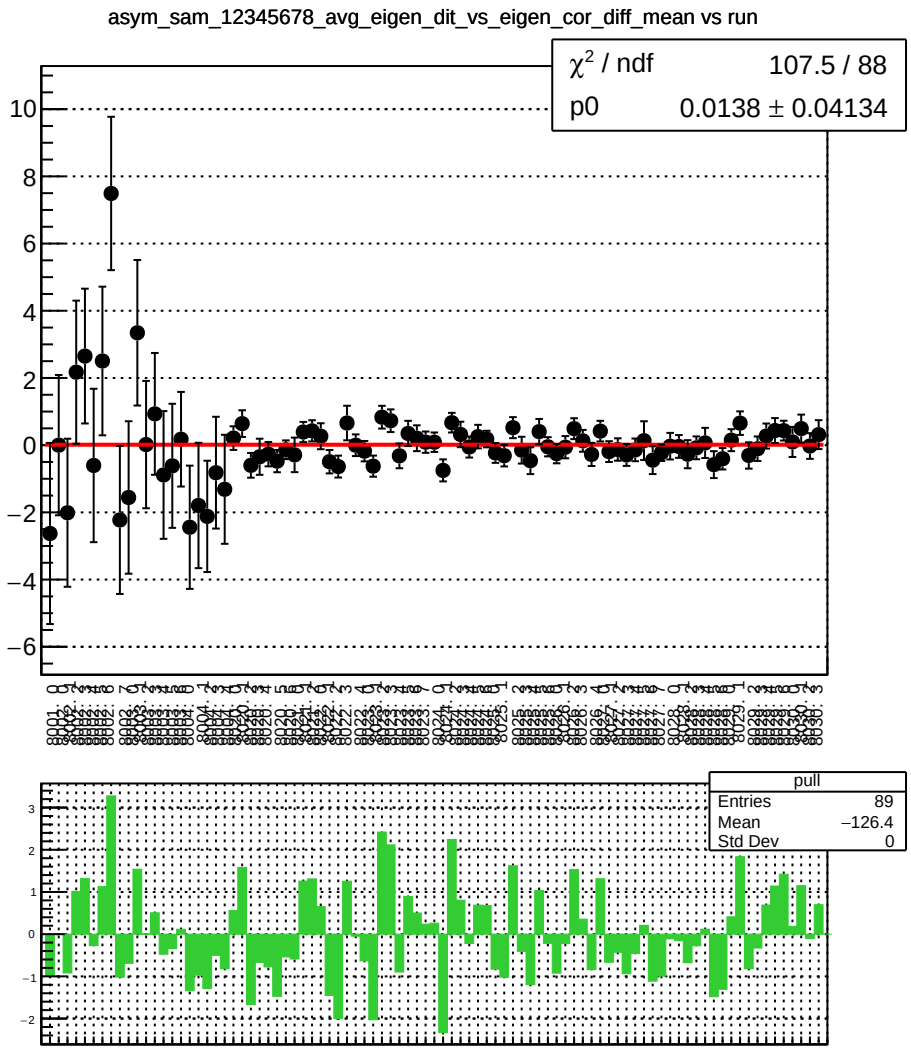

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72.59 / 88
p0 −5.157e−07 ± 8.796e−07
pull
Entries 89
Mean 63.55
Std Dev 53.36

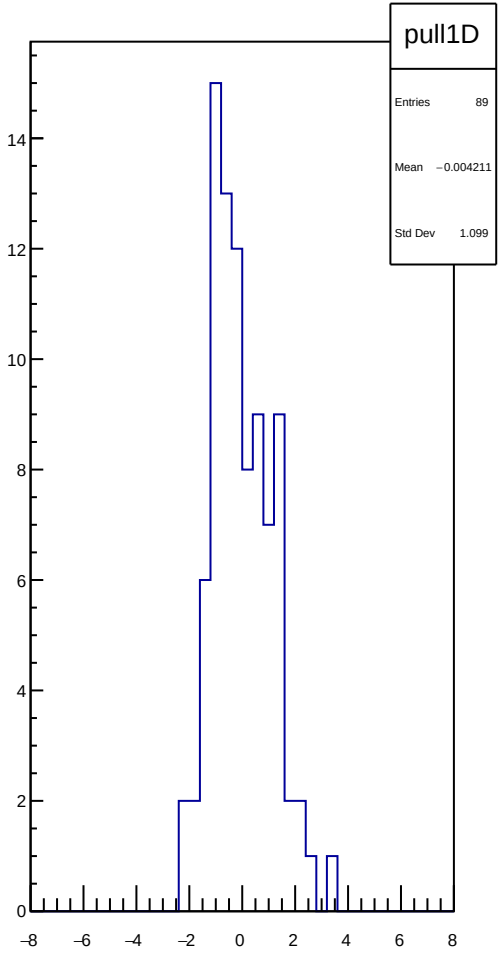

pull1D
Entries 89
Mean −0.02071
Std Dev 0.9029

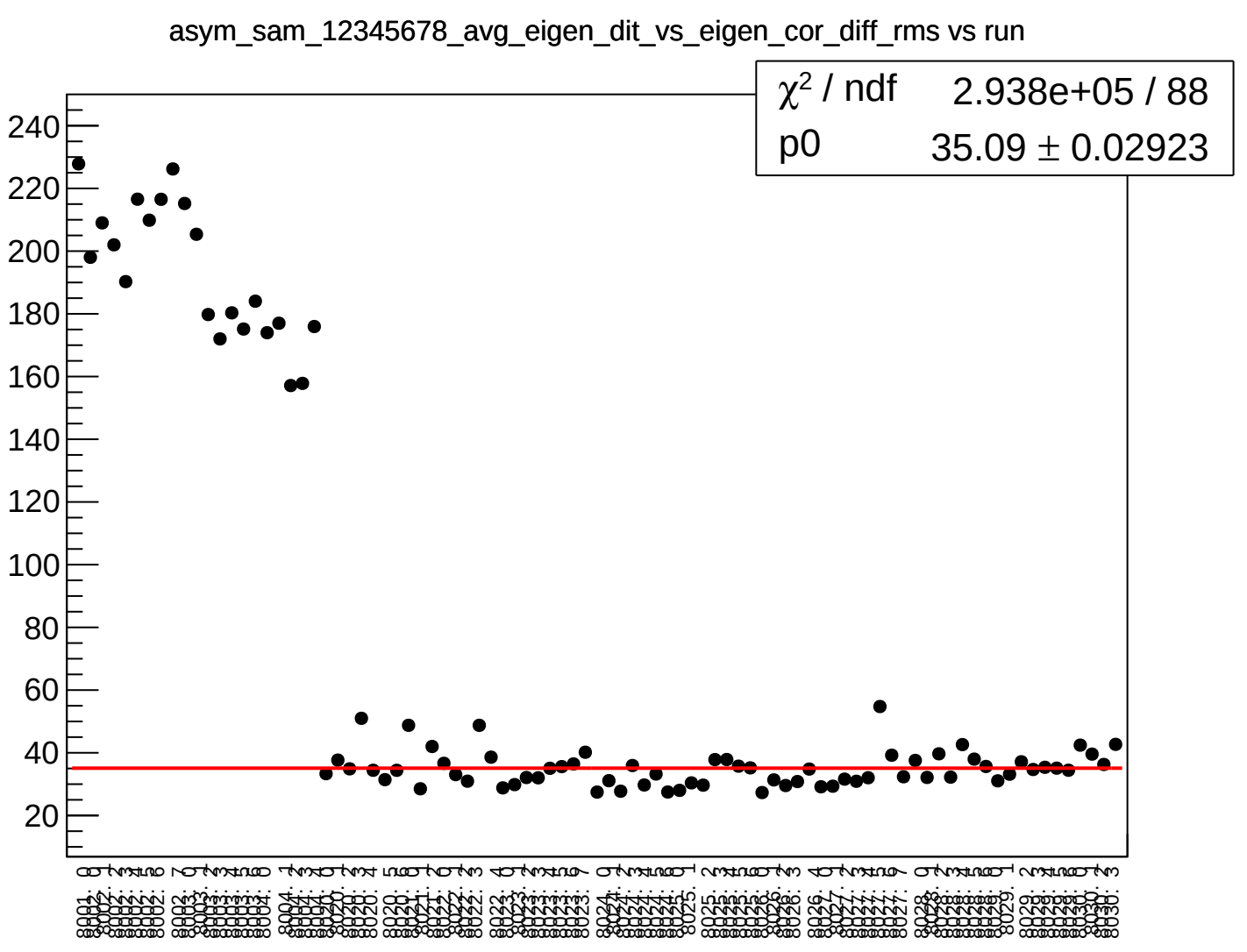

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.706e+05 / 88
p0 0.0007526 ± 6.22e−07
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005

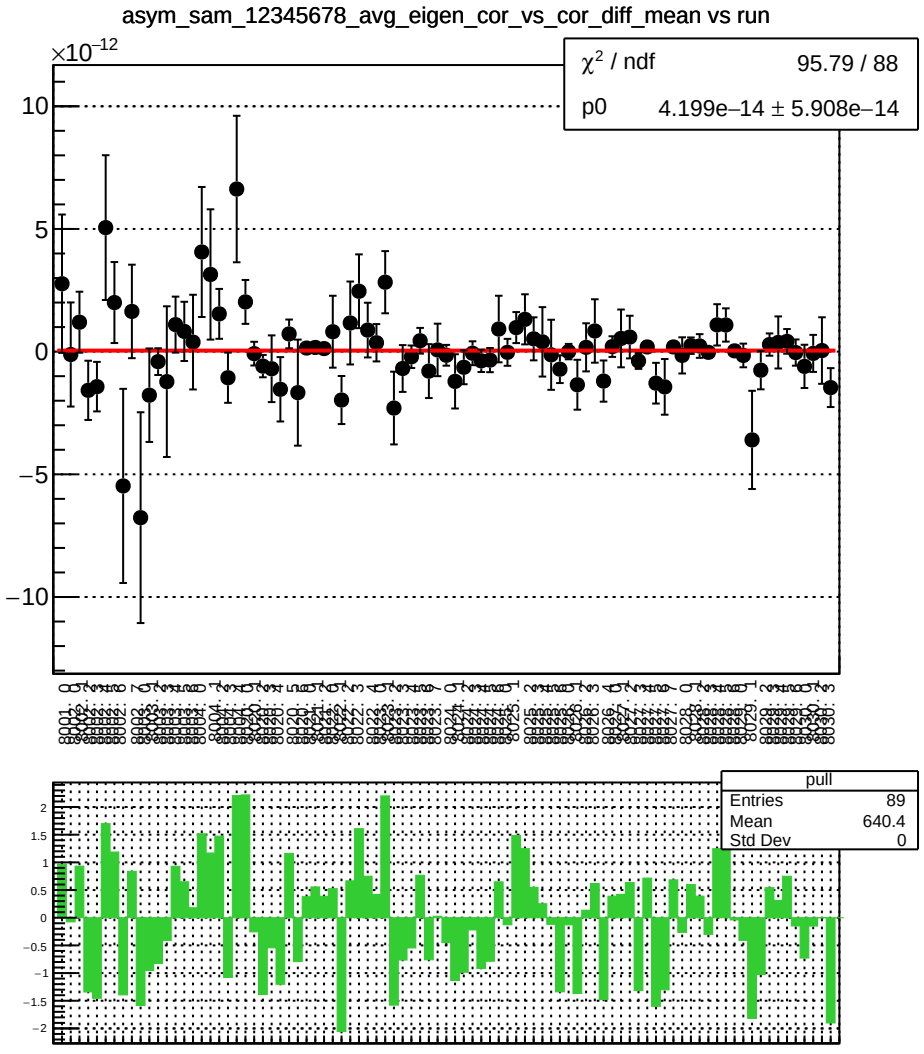

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 107.5 / 88
p0 0.0138 ± 0.04134
pull
Entries 89
Mean −126.4
Std Dev 0
pull1D
Entries 89
Mean −0.004211
Std Dev 1.099

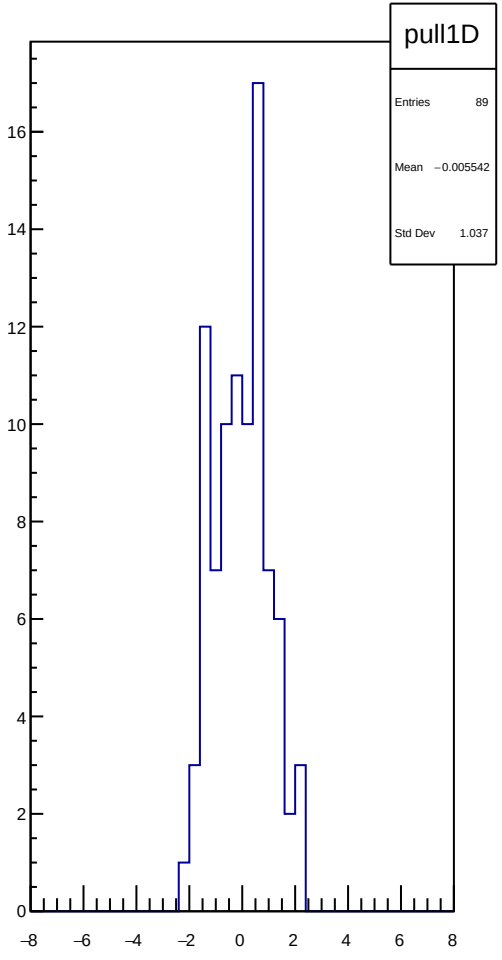

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.938e+05 / 88
p0 35.09 ± 0.02923
240
220
200
180
160
140
120
100
80
60
40
20

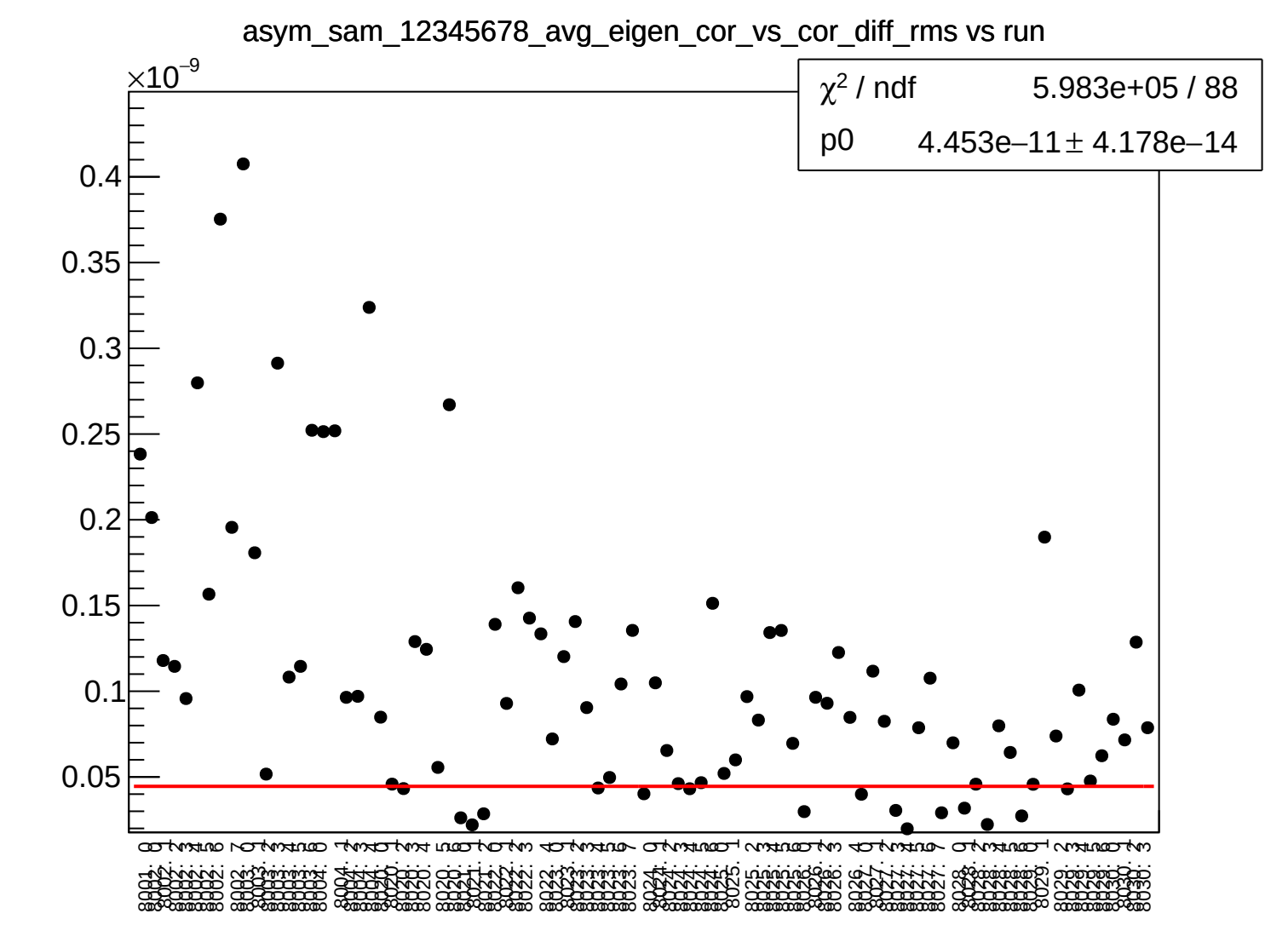

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.5 / 88
p0 0.0138 ± 0.04134
pull
Entries 89
Mean −126.4
Std Dev 0

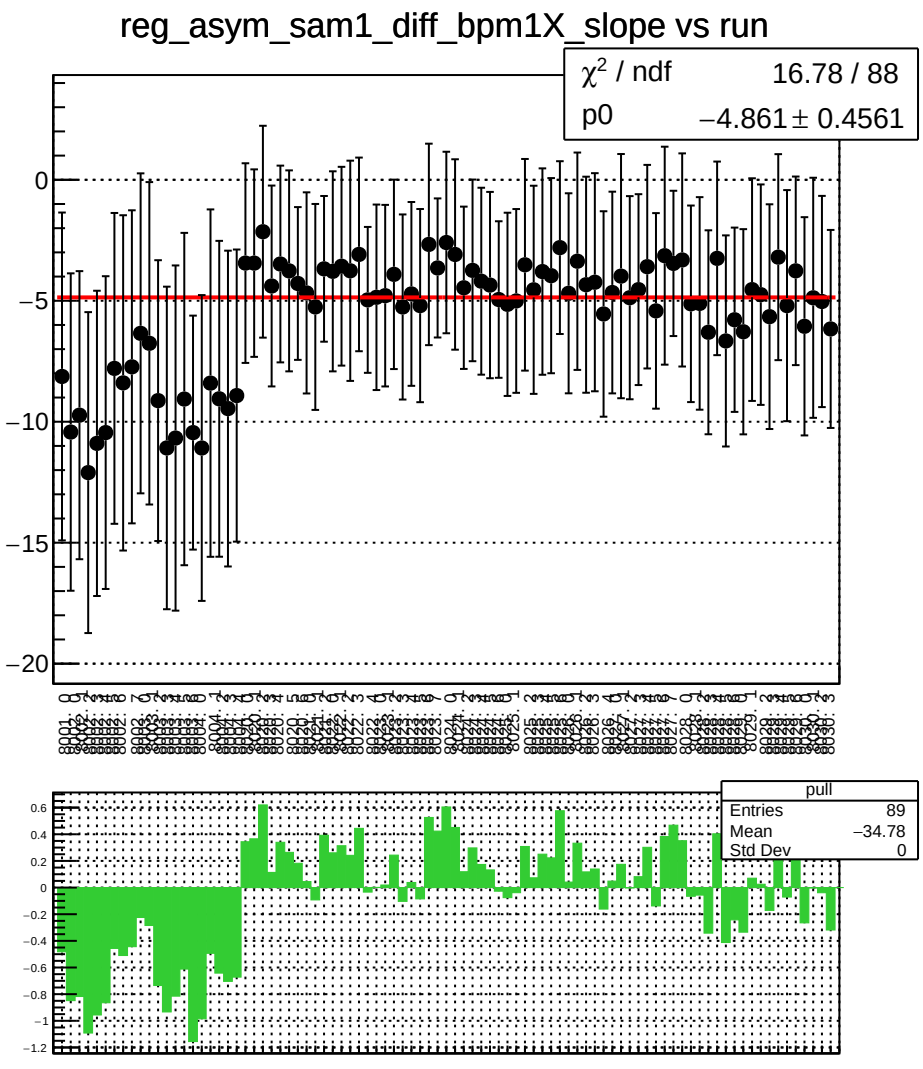

pull1D
Entries 89
Mean −0.004211
Std Dev 1.099

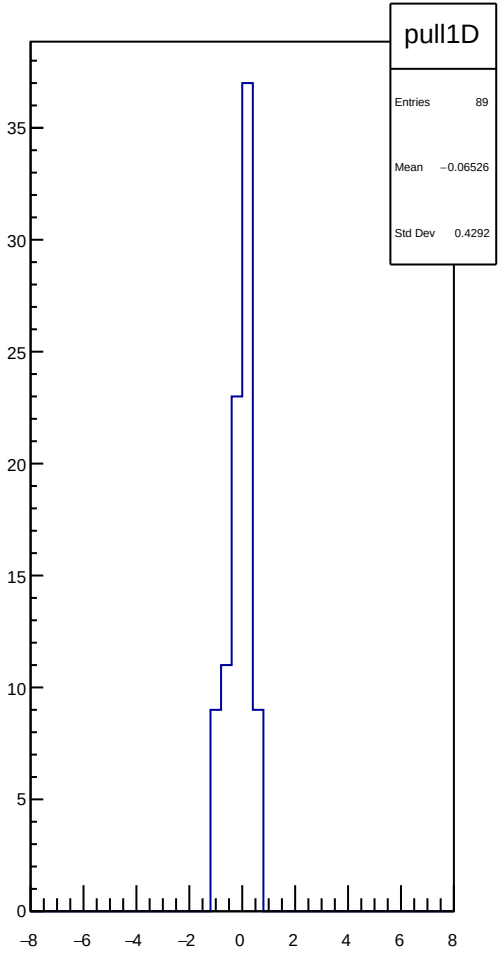

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.938e+05 / 88
p0 35.09 ± 0.02923
240
220
200
180
160
140
120
100
80
60
40
20

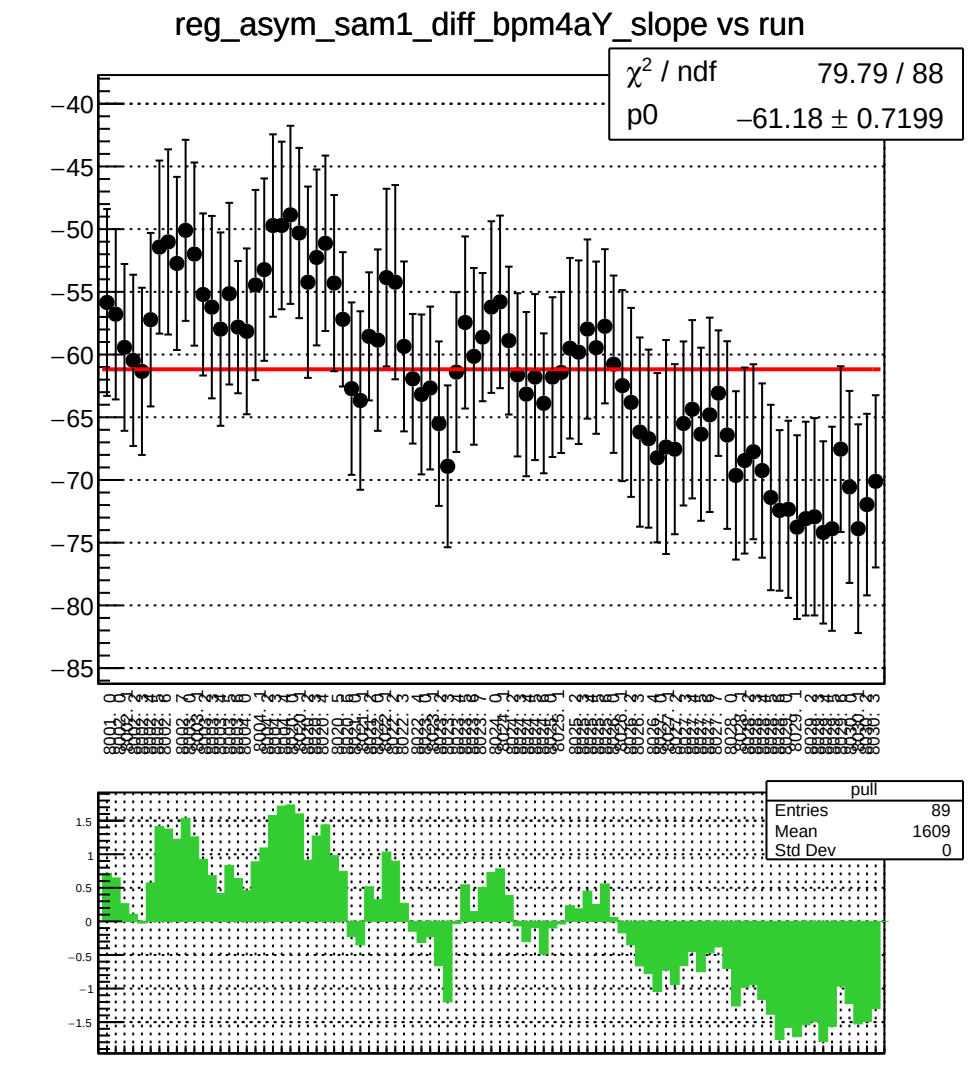

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.79 / 88
p0 4.199e−14 ± 5.908e−14
pull
Entries 89
Mean 640.4
Std Dev 0

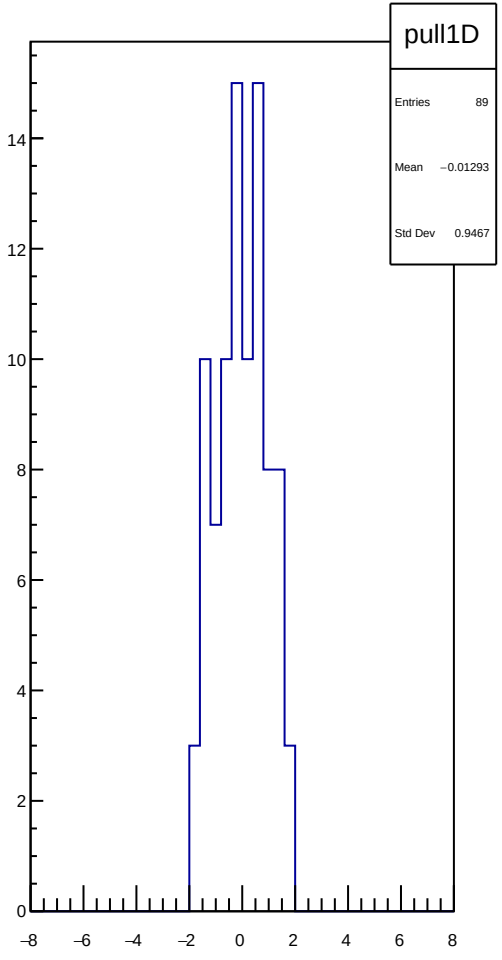

pull1D
Entries 89
Mean −0.005542
Std Dev 1.037

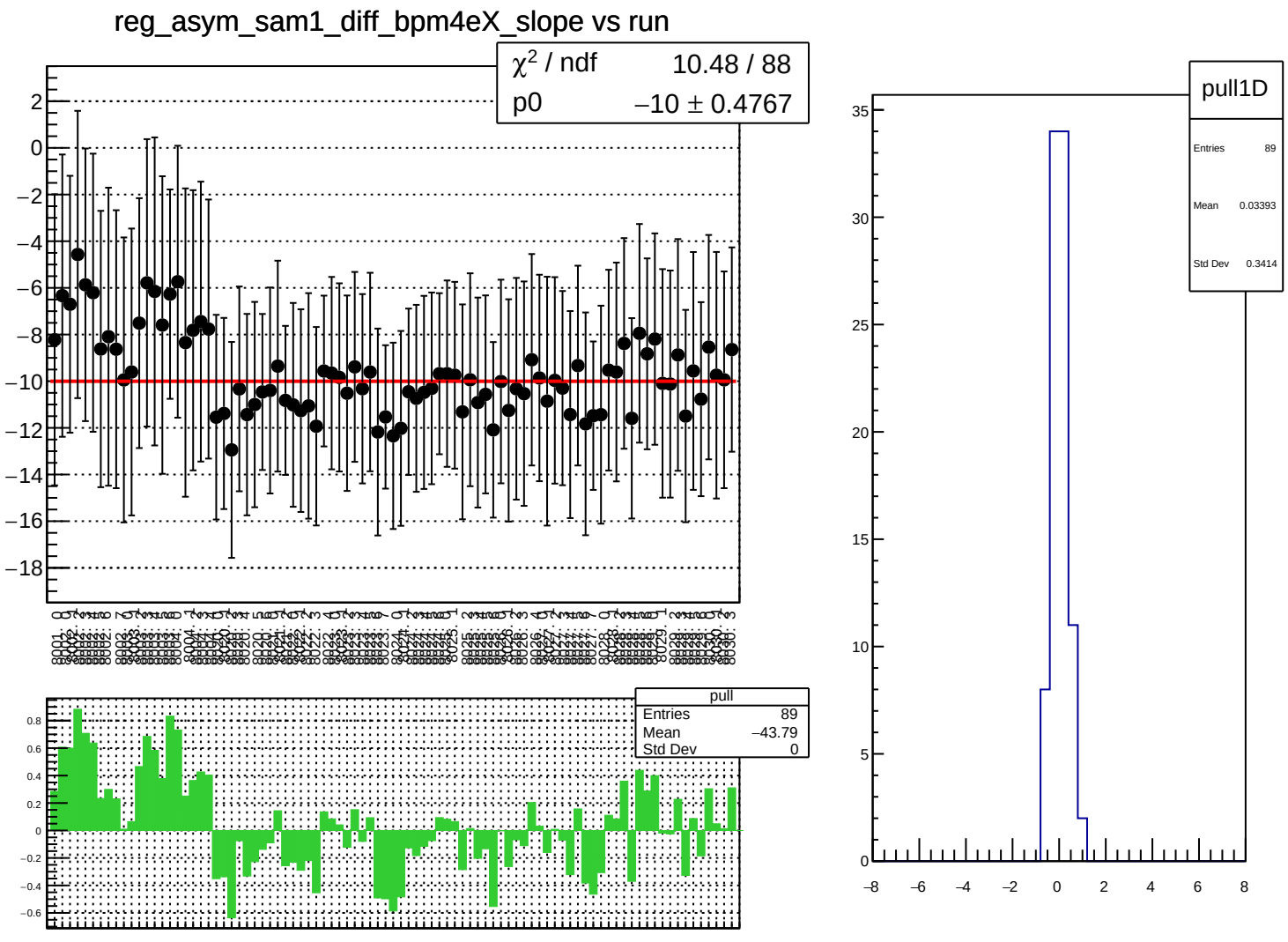

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.983e+05 / 88
p0 4.453e−11 ± 4.178e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

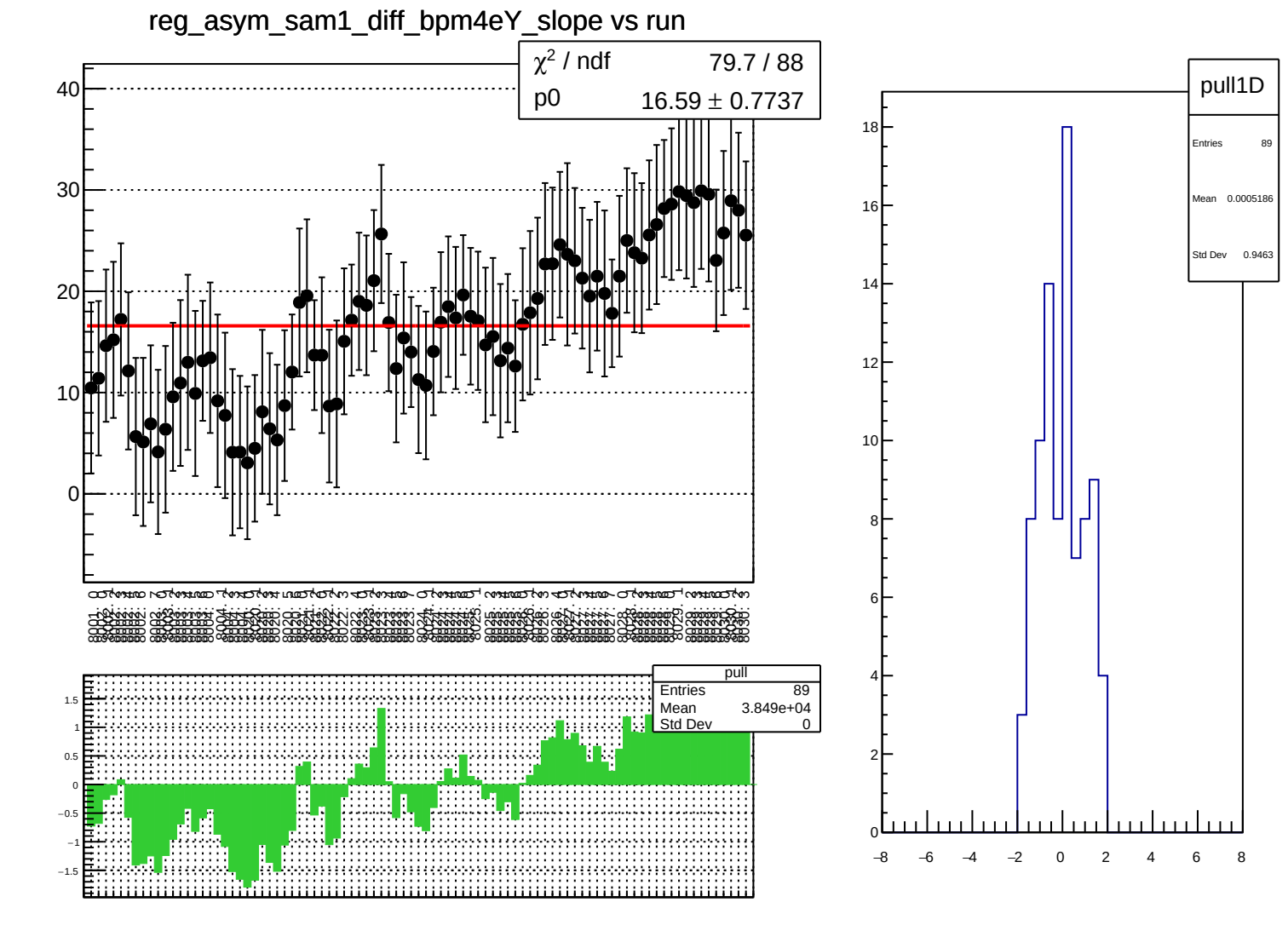

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 16.78 / 88
p0 −4.861 ± 0.4561
pull
Entries 89
Mean −34.78
Std Dev 0

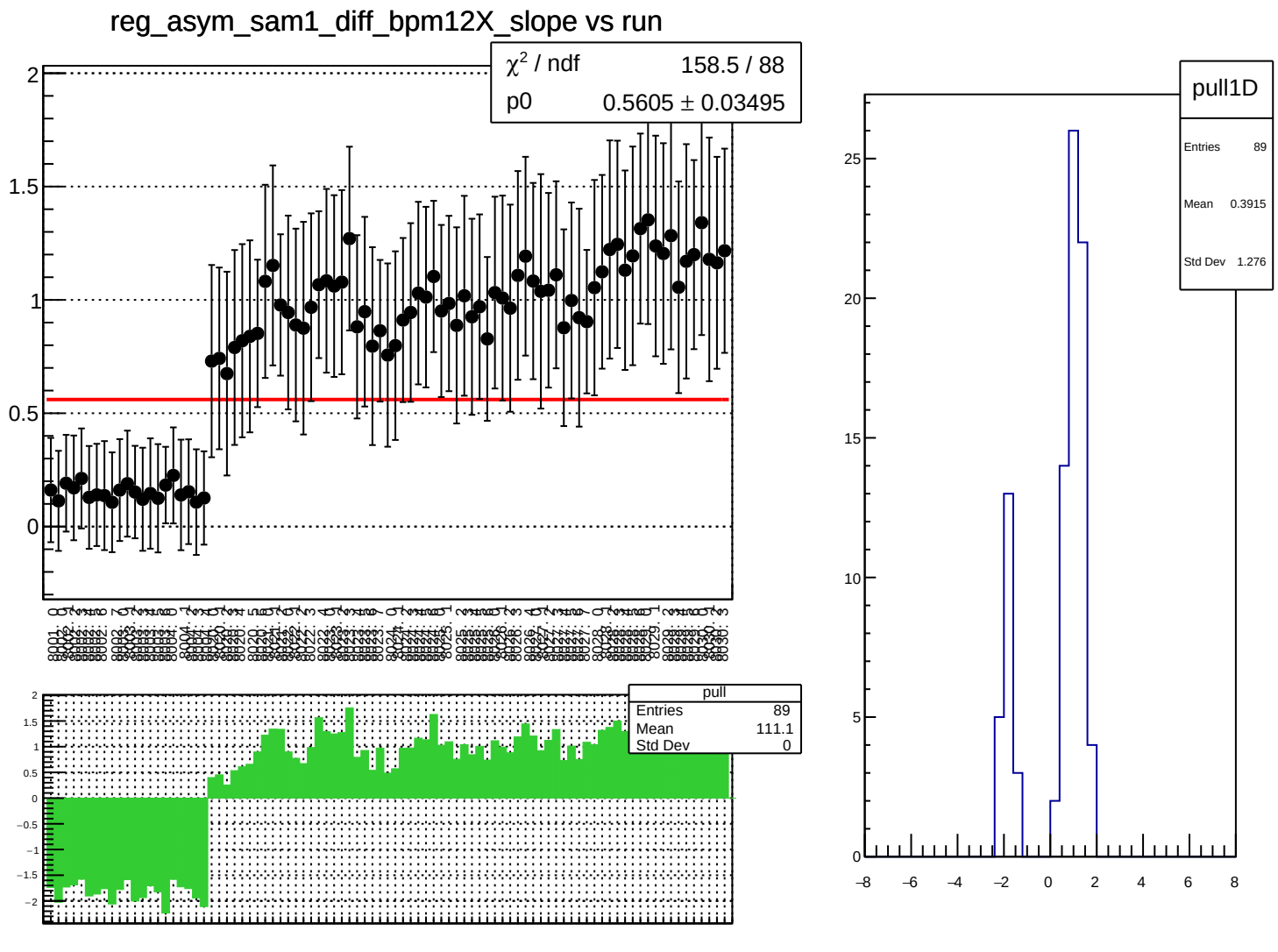

pull1D
Entries 89
Mean −0.06526
Std Dev 0.4292

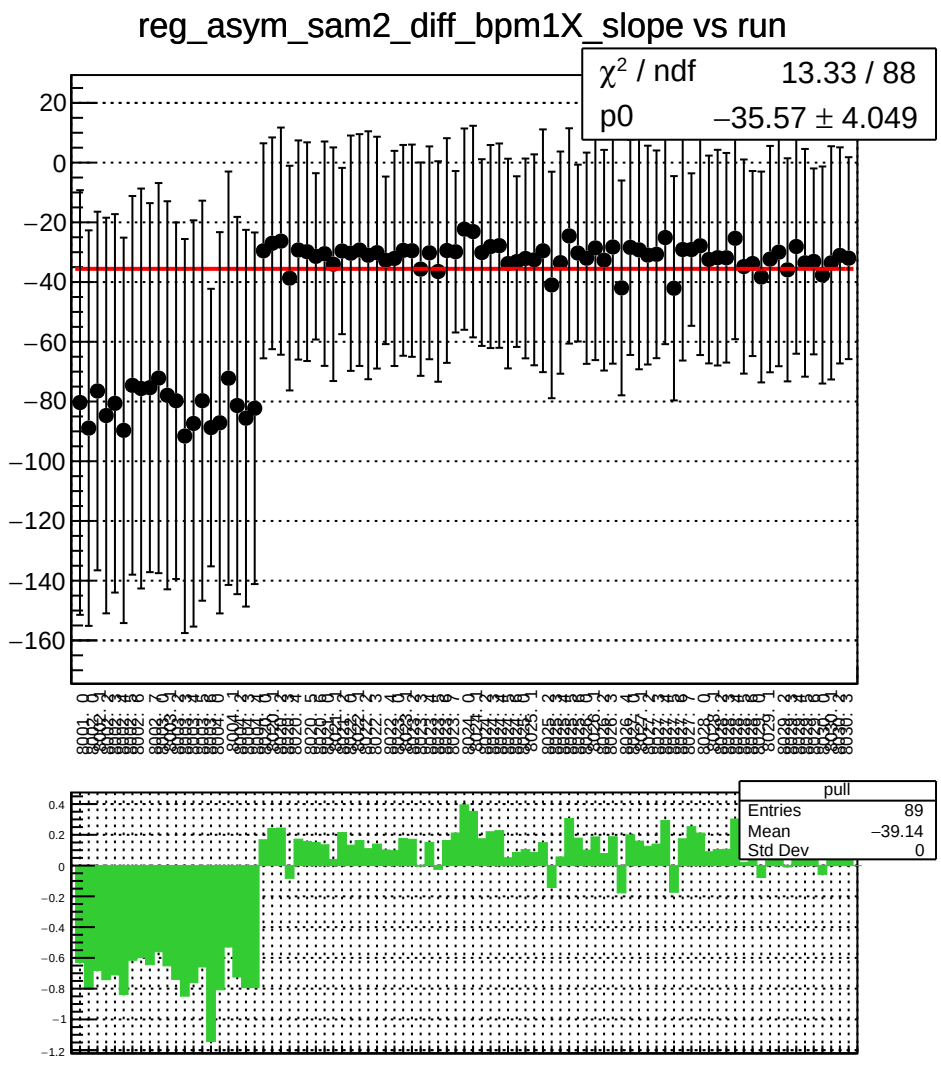

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 79.79 / 88
p0 −61.18 ± 0.7199
pull
Entries 89
Mean 1609
Std Dev 0

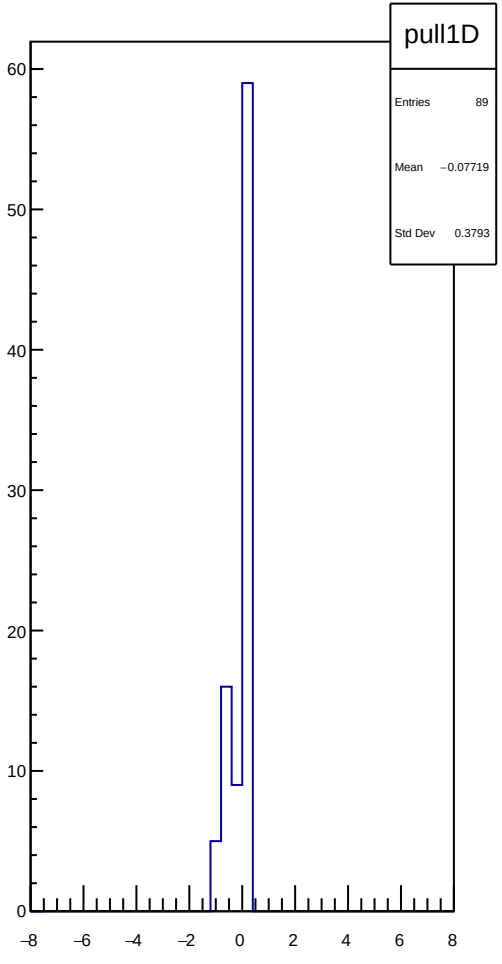

pull1D
Entries 89
Mean −0.01293
Std Dev 0.9467

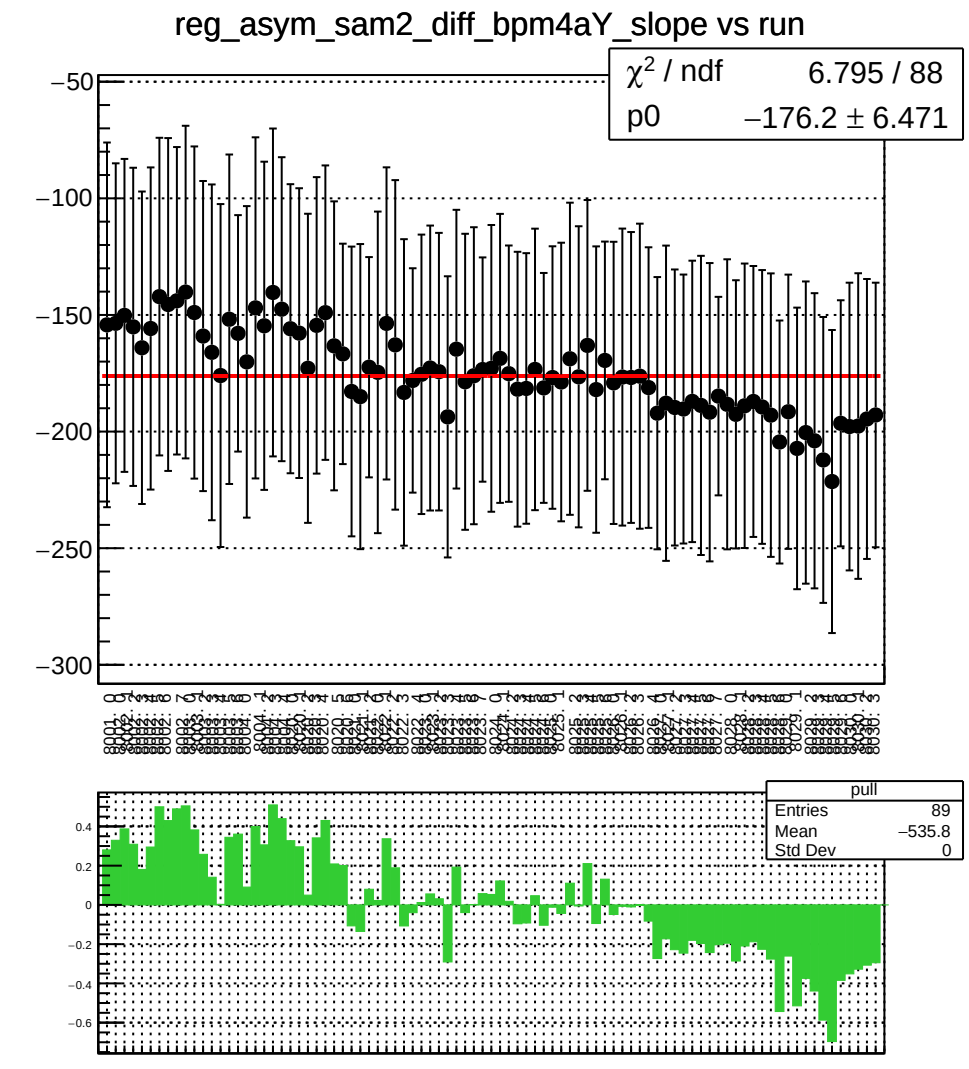

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 10.48 / 88
p0 −10 ± 0.4767
pull
Entries 89
Mean −43.79
Std Dev 0
pull1D
Entries 89
Mean 0.03393
Std Dev 0.3414

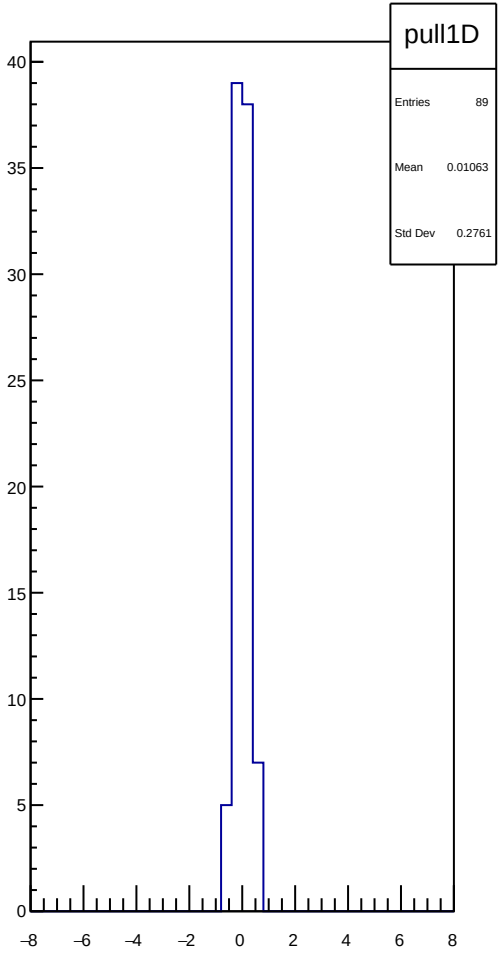

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 79.7 / 88
p0 16.59 ± 0.7737
pull
Entries 89
Mean 3.849e+04
Std Dev 0
pull1D
Entries 89
Mean 0.0005186
Std Dev 0.9463

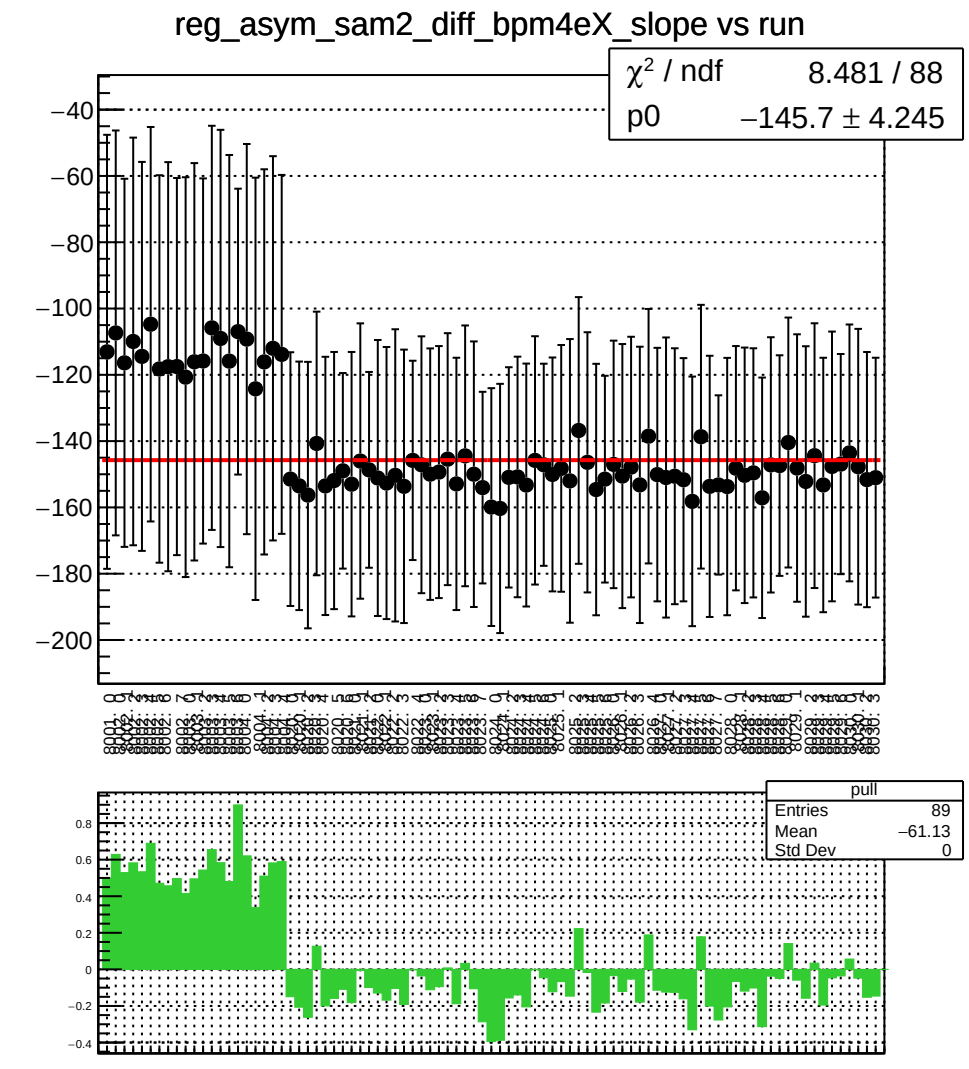

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 158.5 / 88
p0 0.5605 ± 0.03495
pull
Entries 89
Mean 111.1
Std Dev 0
pull1D
Entries 89
Mean 0.3915
Std Dev 1.276

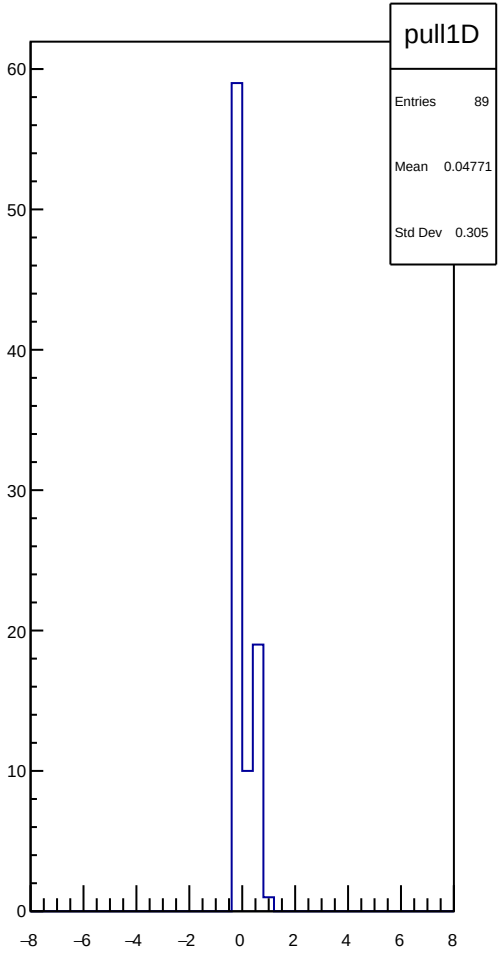

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 13.33 / 88
p0 −35.57 ± 4.049
pull
Entries 89
Mean −39.14
Std Dev 0

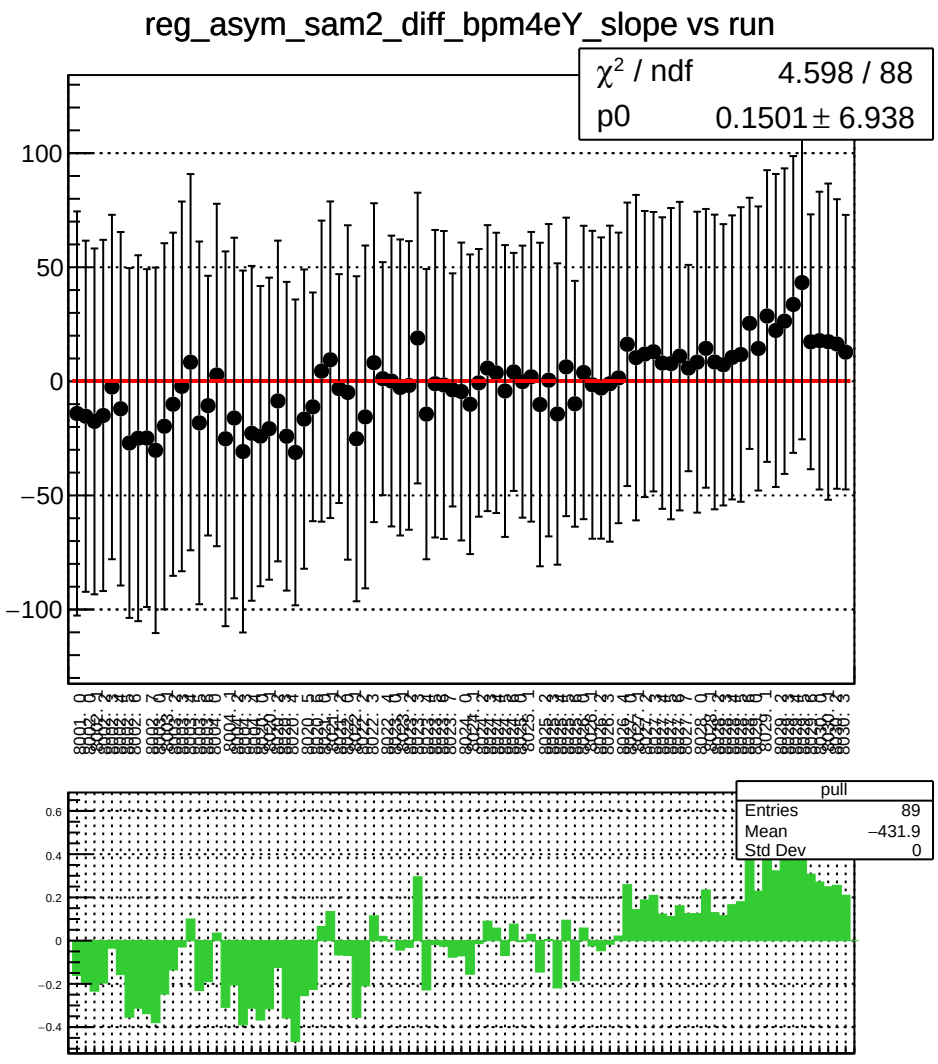

pull1D
Entries 89
Mean −0.07719
Std Dev 0.3793

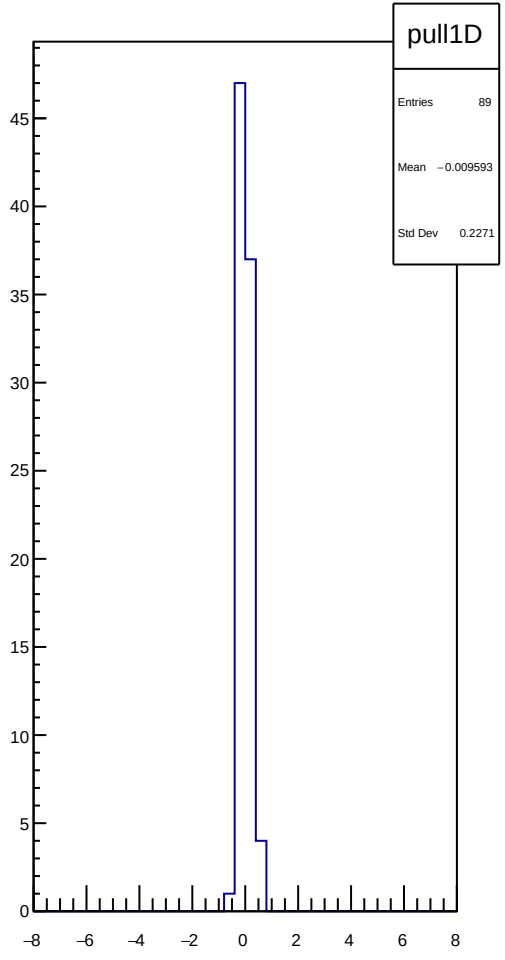

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 6.795 / 88
p0 −176.2 ± 6.471
pull
Entries 89
Mean −535.8
Std Dev 0

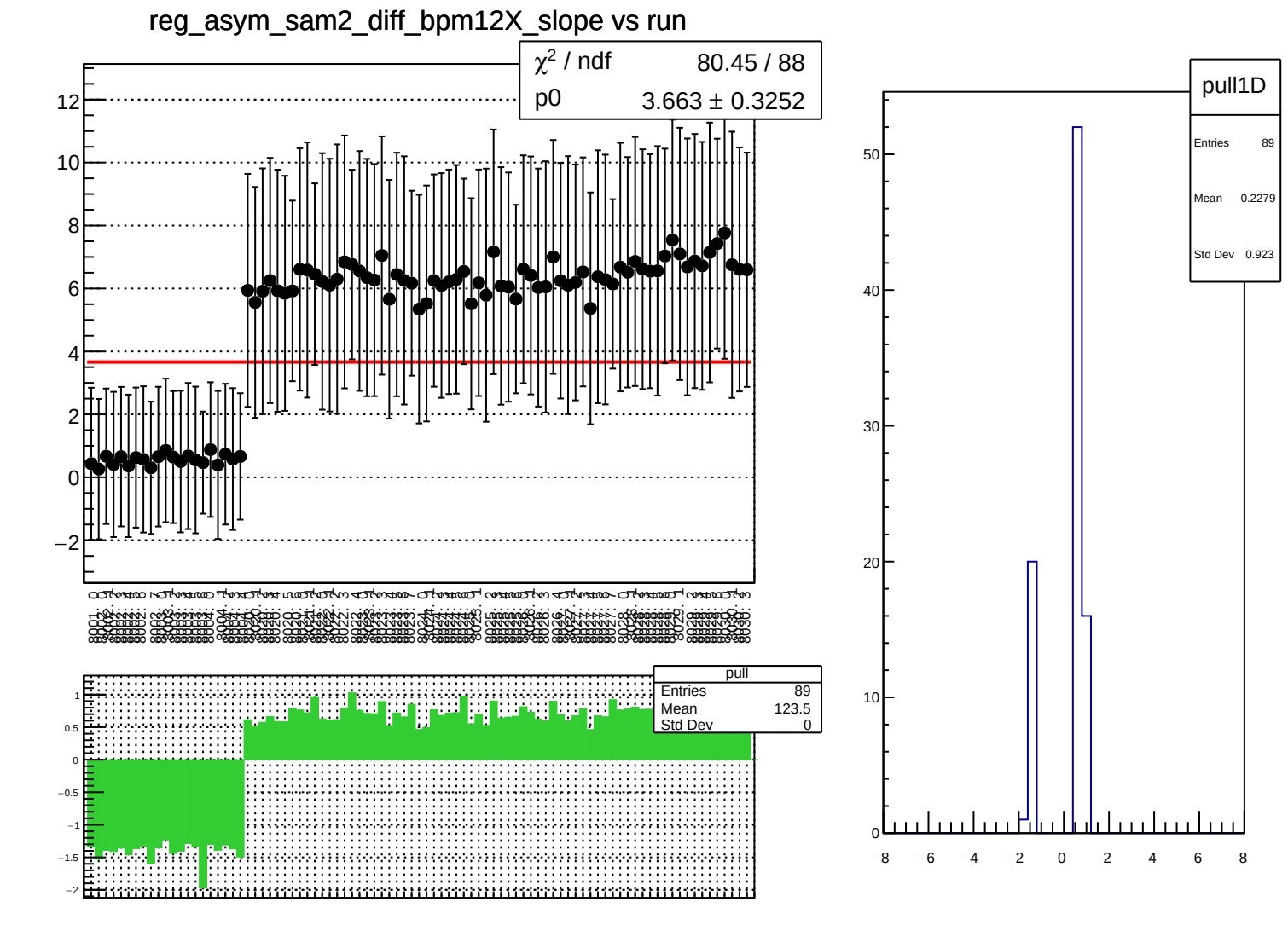

pull1D
Entries 89
Mean 0.01063
Std Dev 0.2761

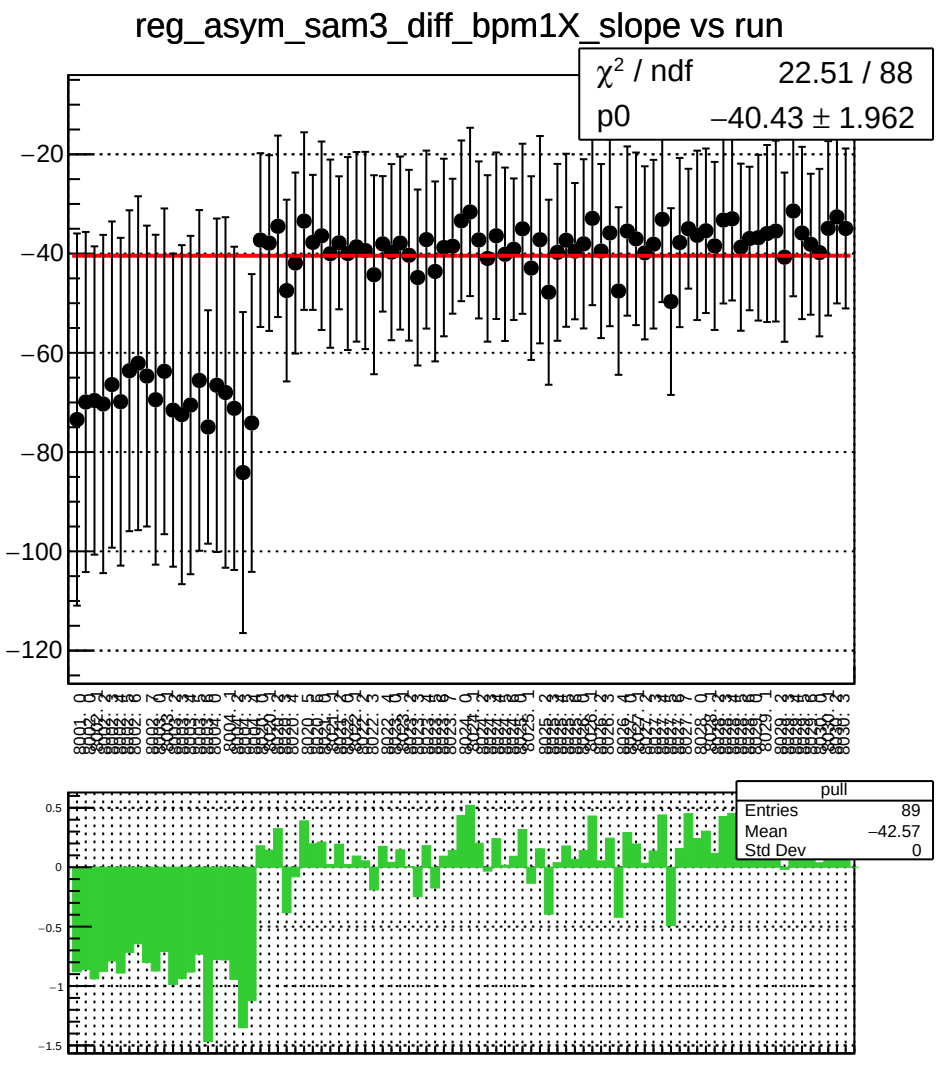

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 8.481 / 88
p0 −145.7 ± 4.245
pull
Entries 89
Mean −61.13
Std Dev 0

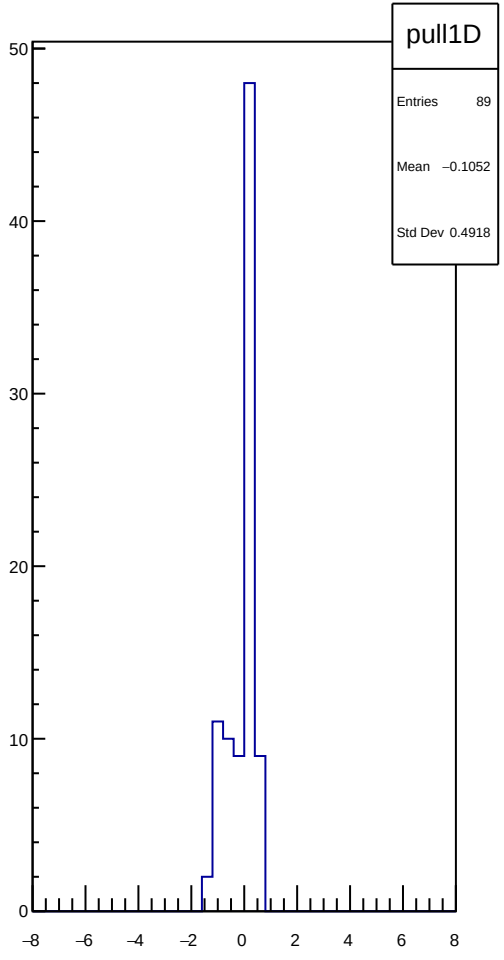

pull1D
Entries 89
Mean 0.04771
Std Dev 0.305

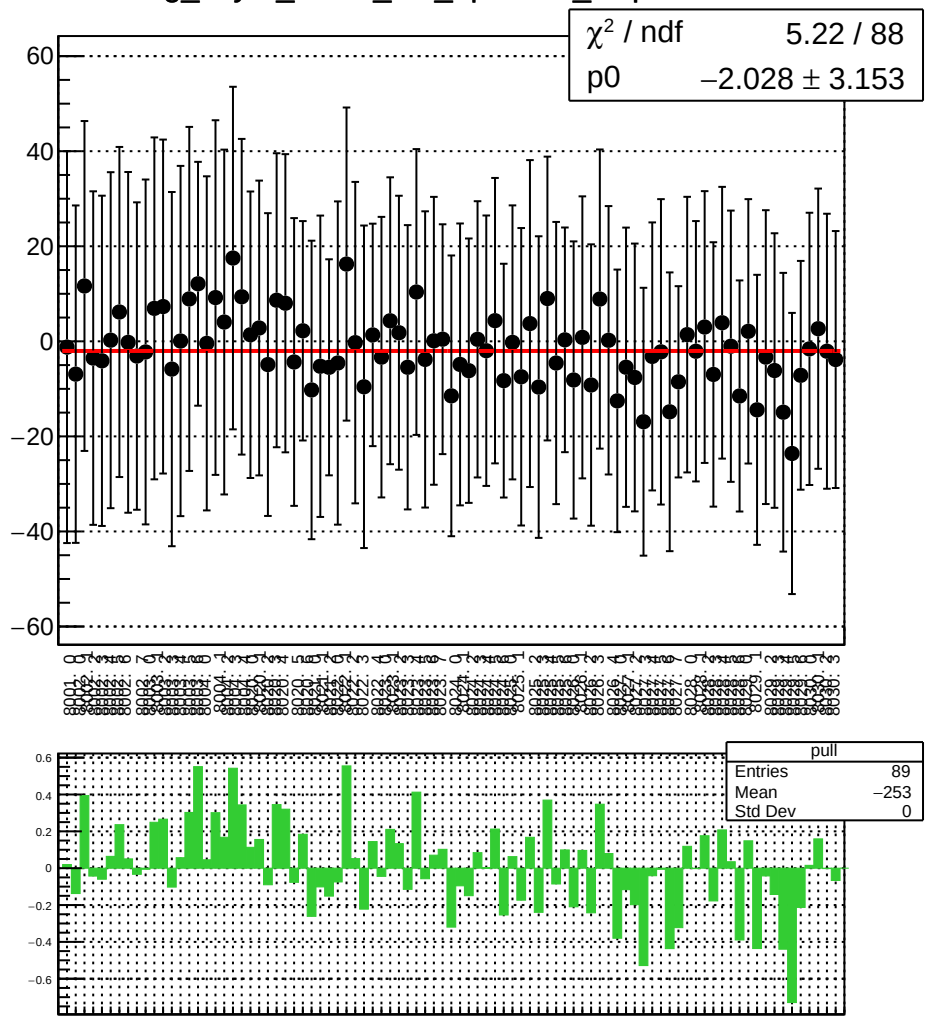

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 4.598 / 88
p0 0.1501 ± 6.938
100
50
0
−50
−100
pull
Entries 89
Mean −431.9
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4

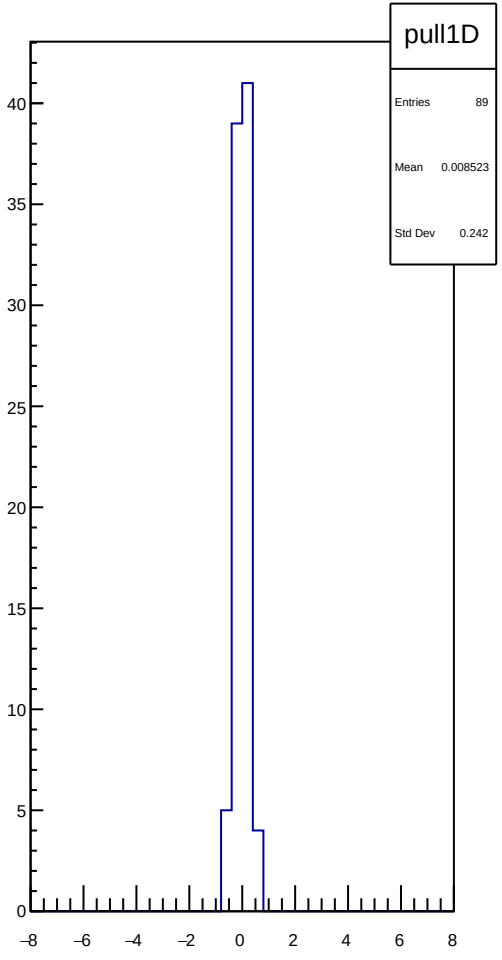

pull1D
Entries 89
Mean −0.009593
Std Dev 0.2271
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

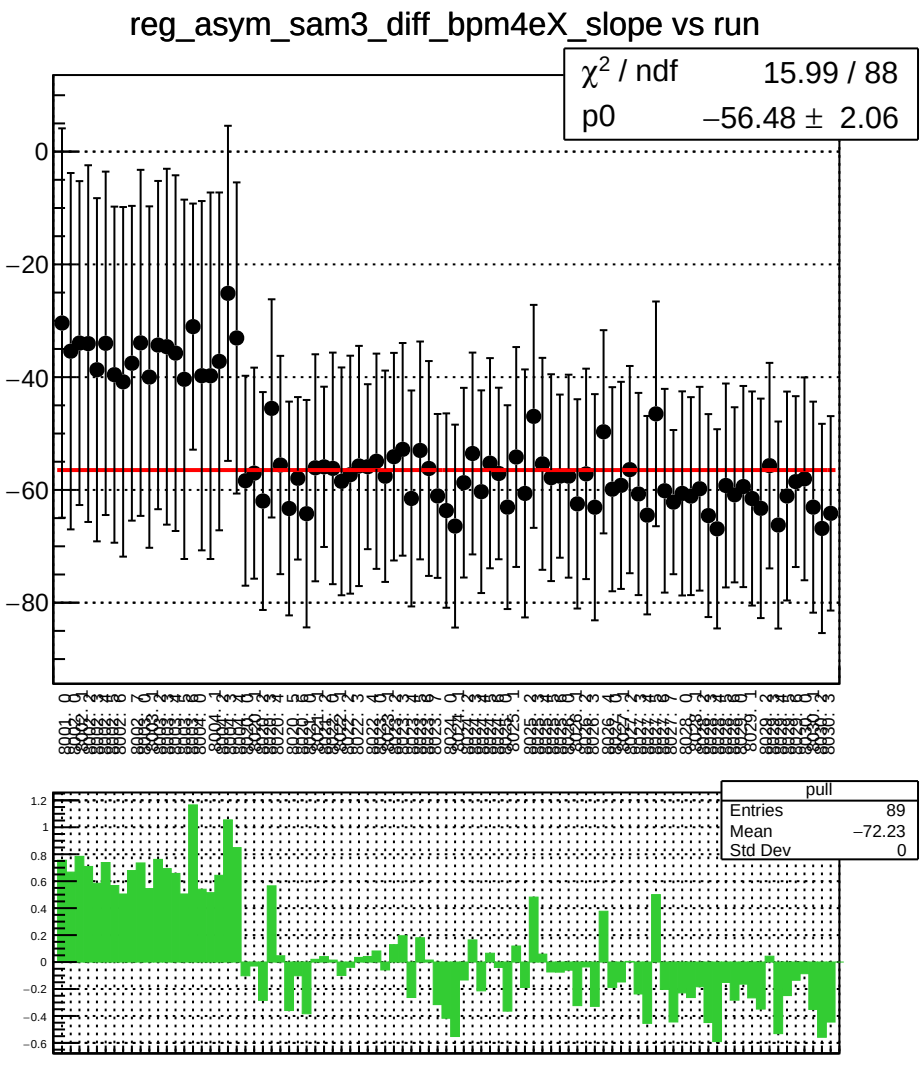

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 80.45 / 88
p0 3.663 ± 0.3252
pull
Entries 89
Mean 123.5
Std Dev 0
pull1D
Entries 89
Mean 0.2279
Std Dev 0.923

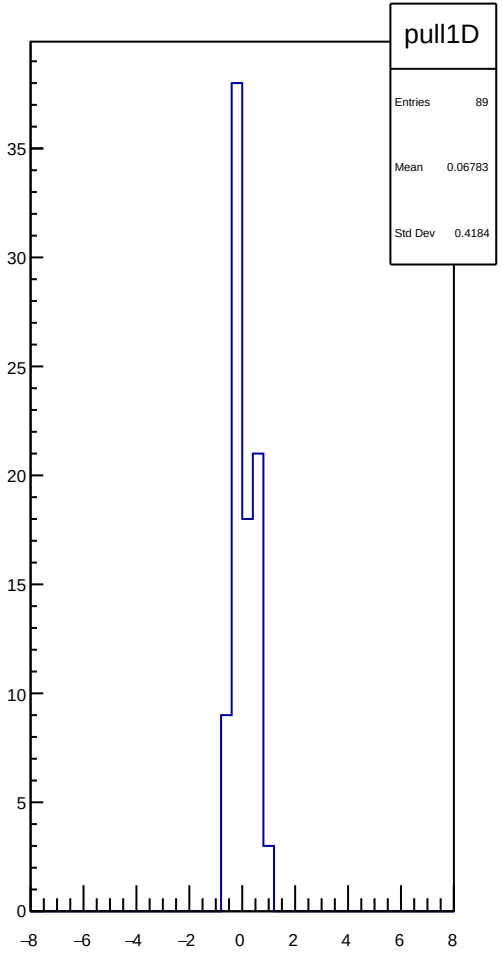

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 22.51 / 88
p0 −40.43 ± 1.962
−20
−40
−60
−80
−100
−120
pull
Entries 89
Mean −42.57
Std Dev 0
0.5
0
−0.5
−1
−1.5

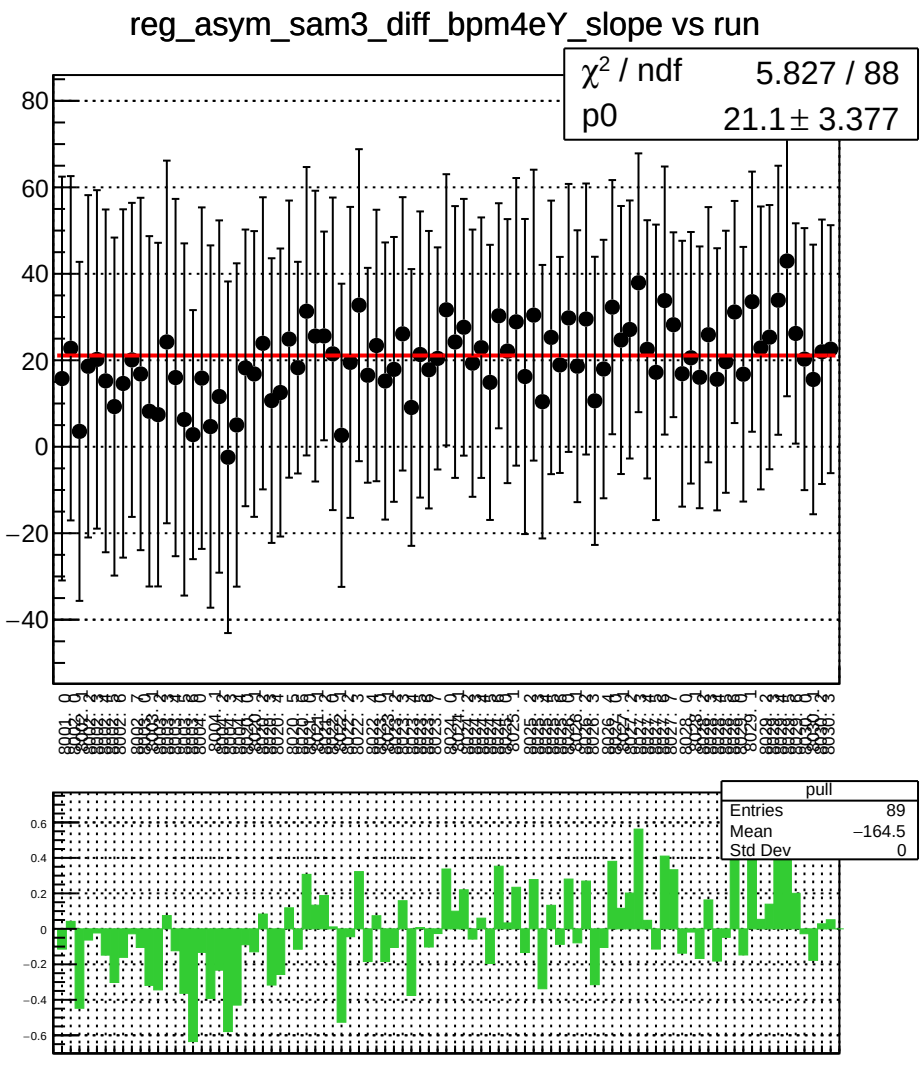

pull1D
Entries 89
Mean −0.1052
Std Dev 0.4918
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

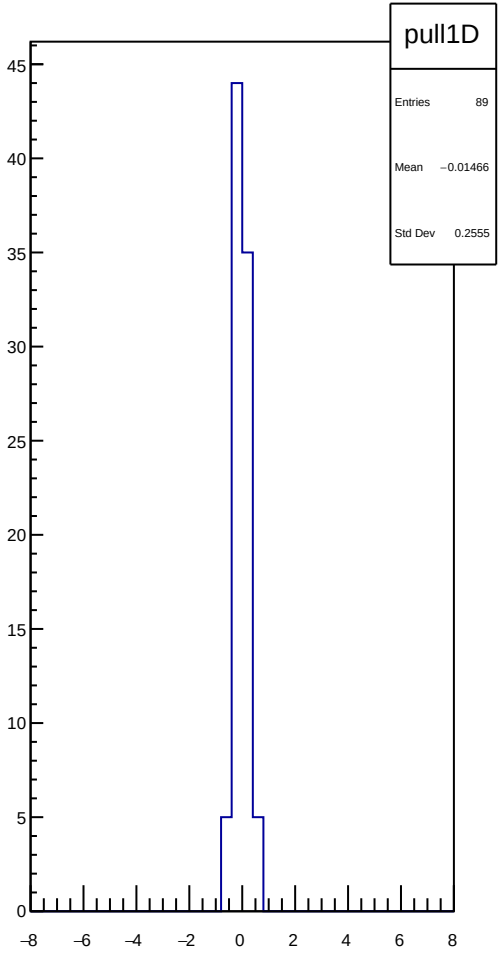

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 5.22 / 88
p0 −2.028 ± 3.153
pull
Entries 89
Mean −253
Std Dev 0

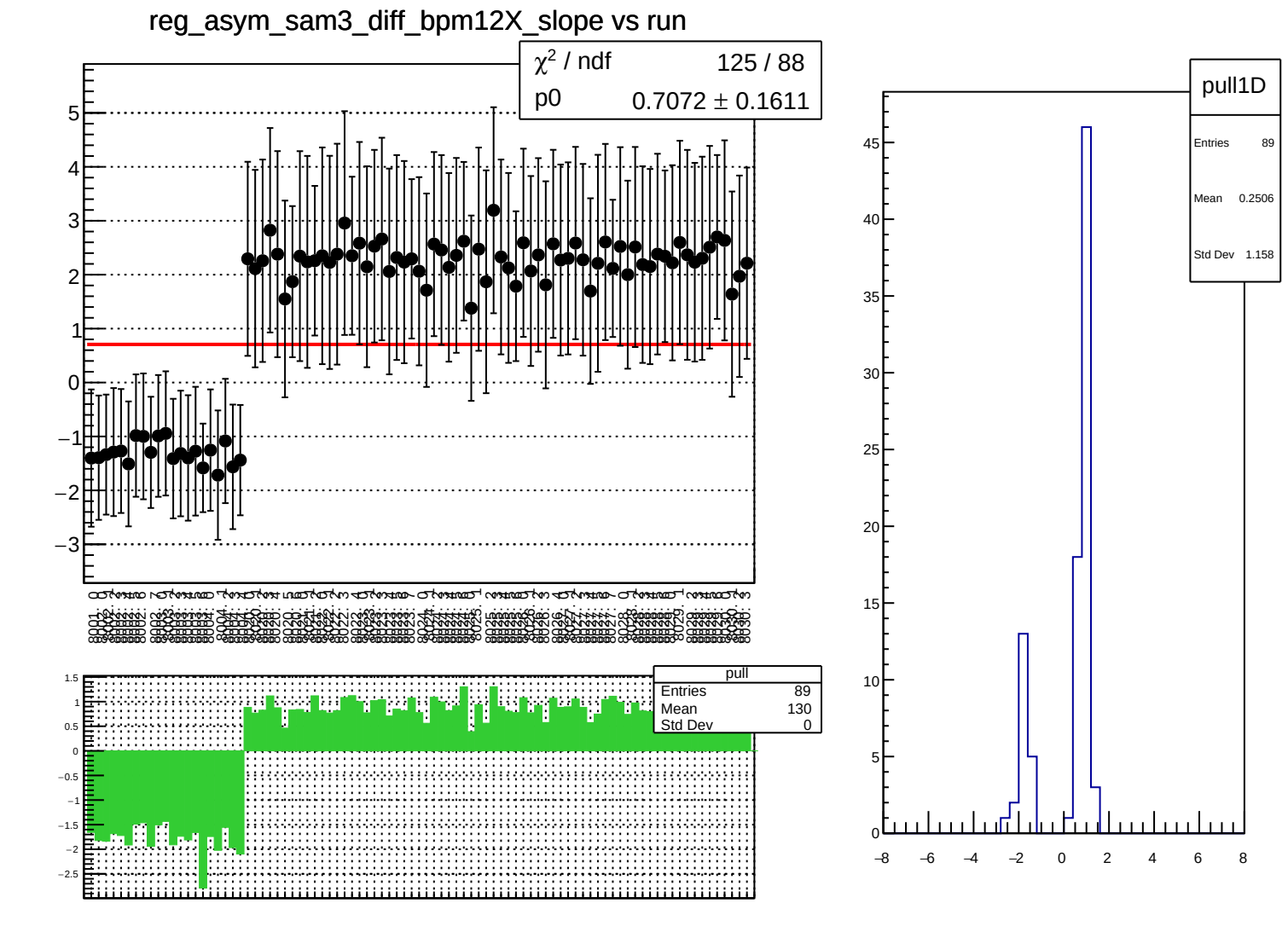

pull1D
Entries 89
Mean 0.008523
Std Dev 0.242

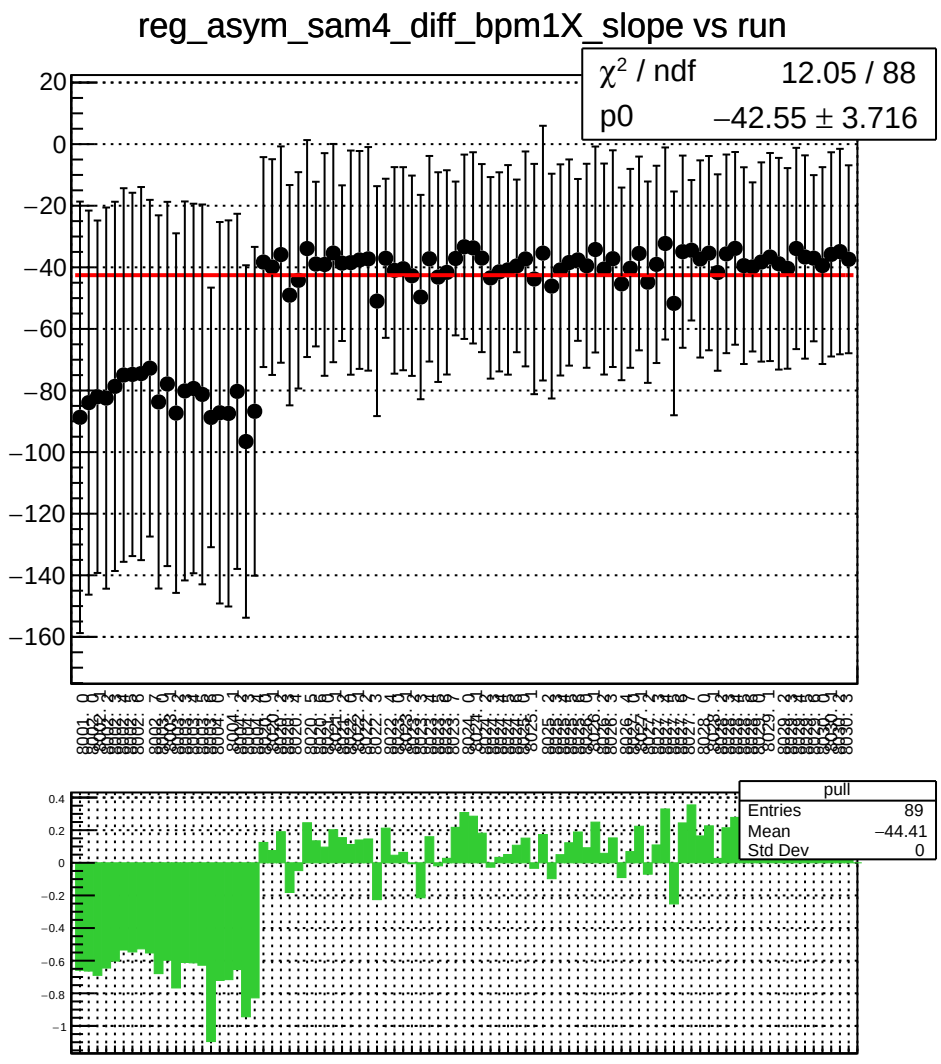

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 15.99 / 88
p0 −56.48 ± 2.06
pull
Entries 89
Mean −72.23
Std Dev 0

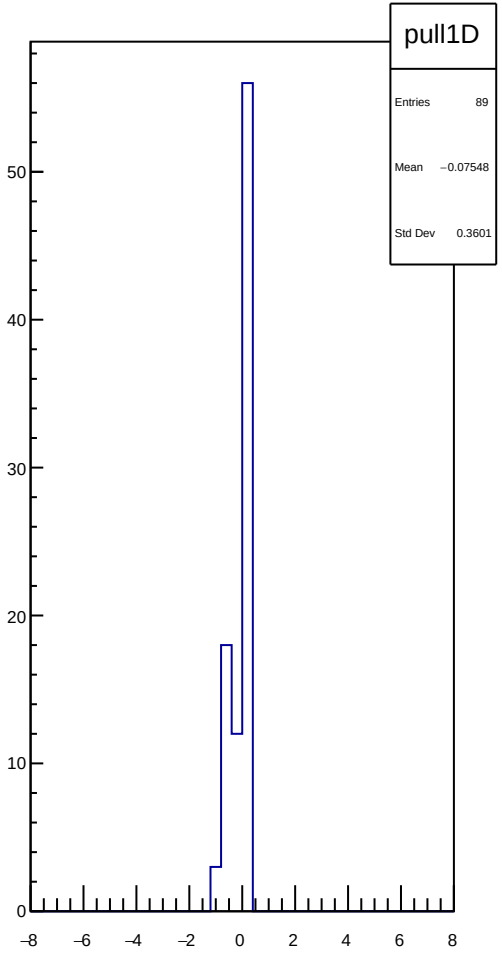

pull1D
Entries 89
Mean 0.06783
Std Dev 0.4184

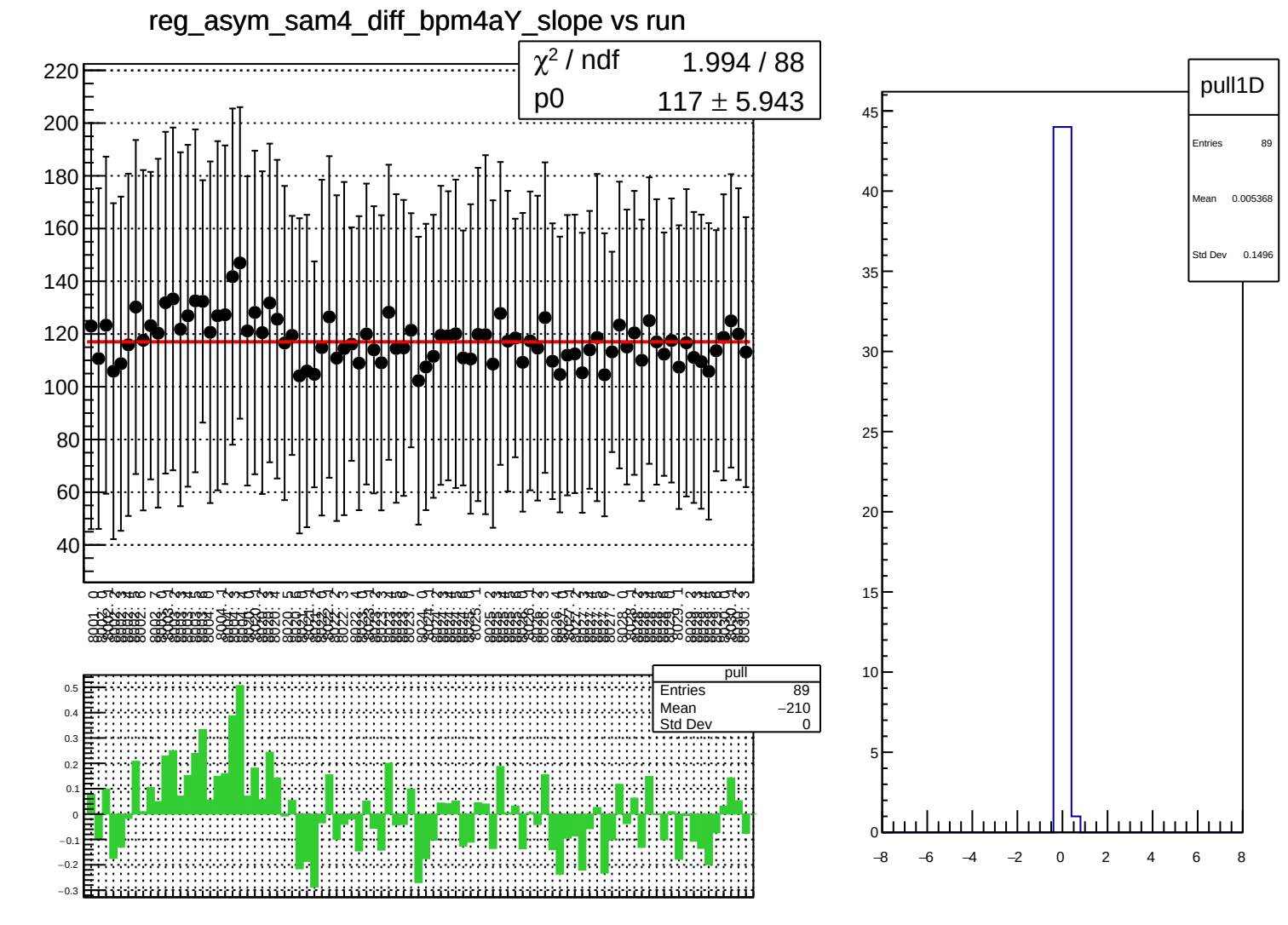

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 5.827 / 88
p0 21.1 ± 3.377
pull
Entries 89
Mean −164.5
Std Dev 0

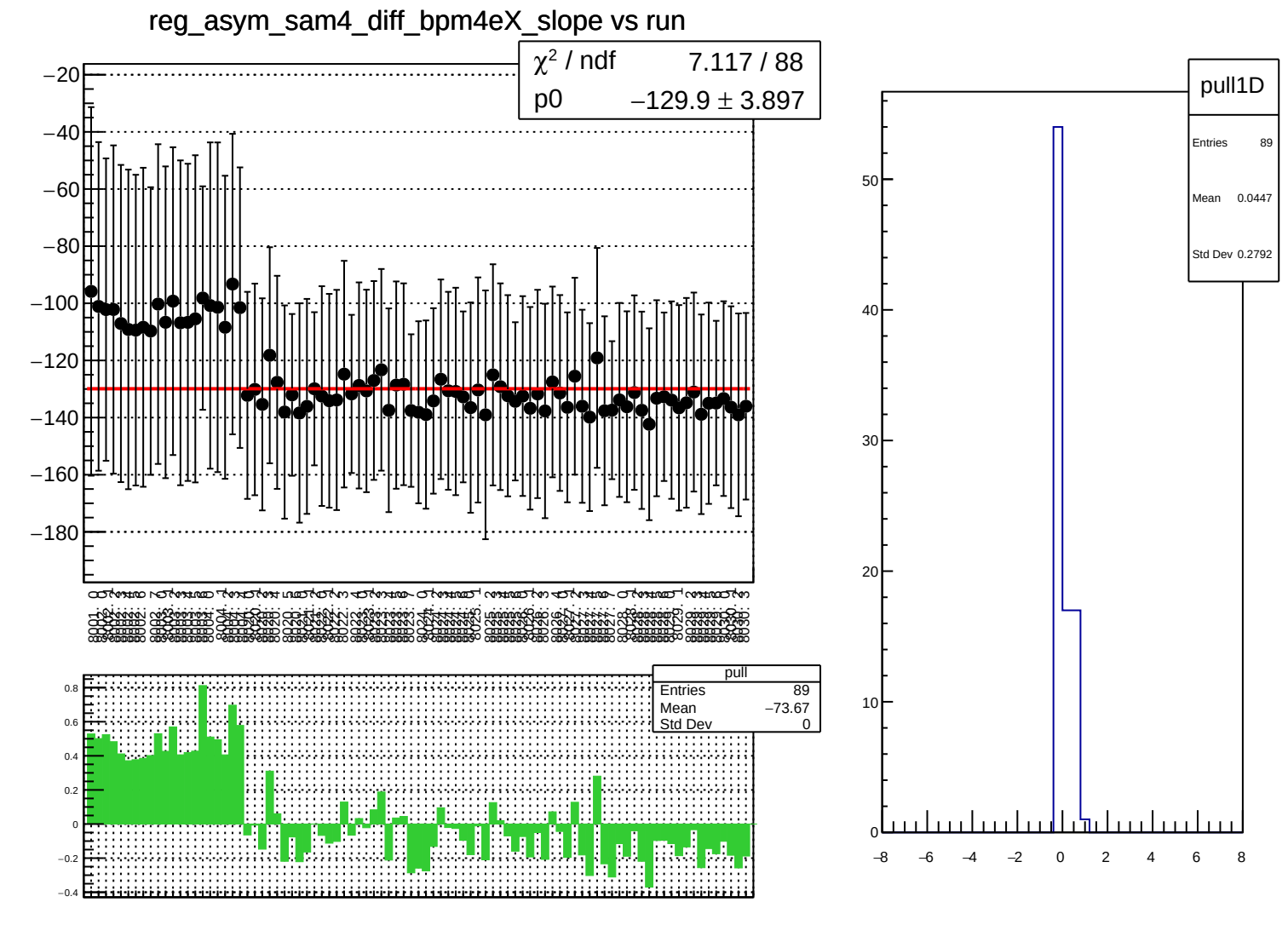

pull1D
Entries 89
Mean −0.01466
Std Dev 0.2555

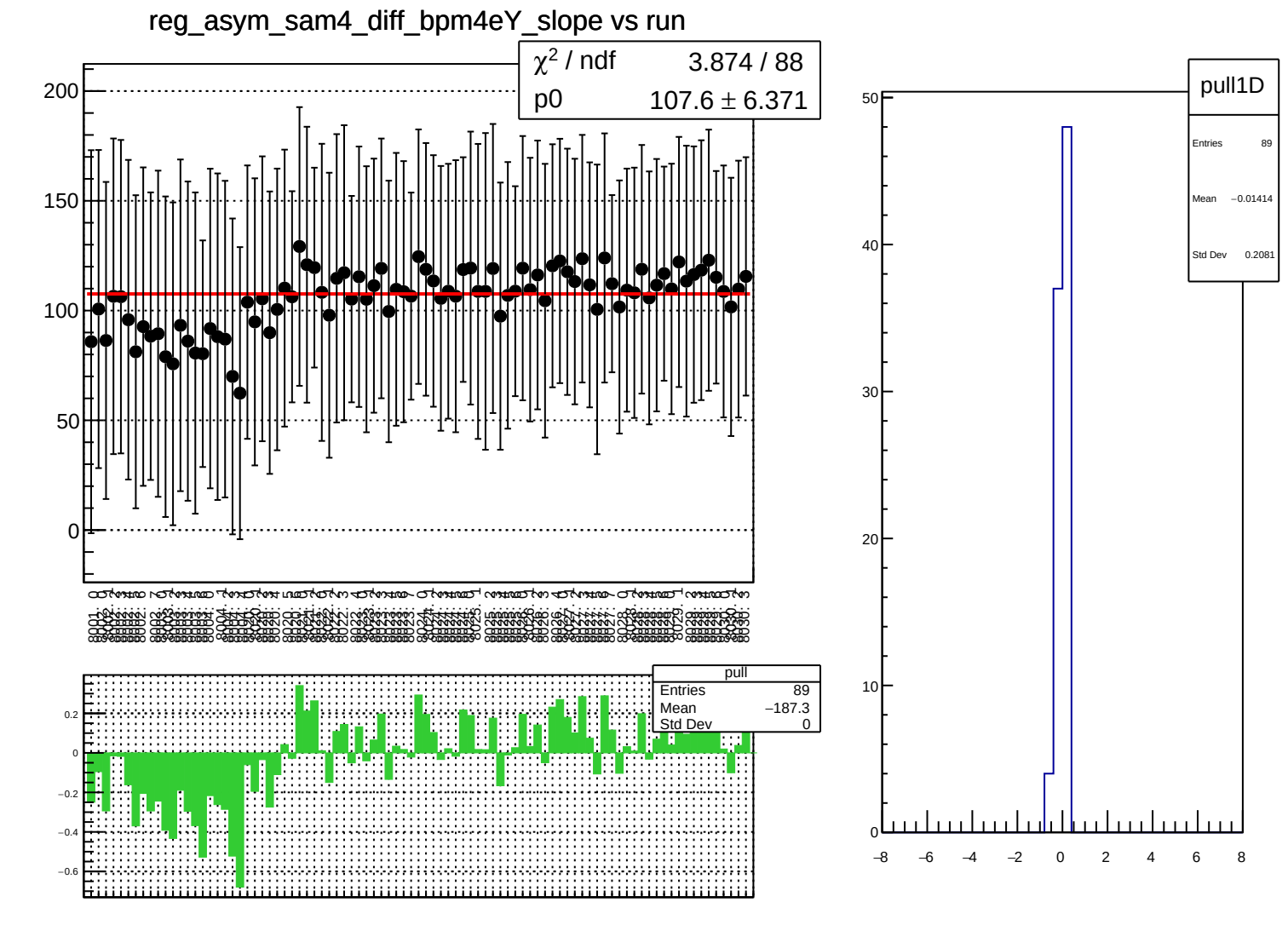

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 125 / 88
p0 0.7072 ± 0.1611
pull
Entries 89
Mean 130
Std Dev 0
pull1D
Entries 89
Mean 0.2506
Std Dev 1.158

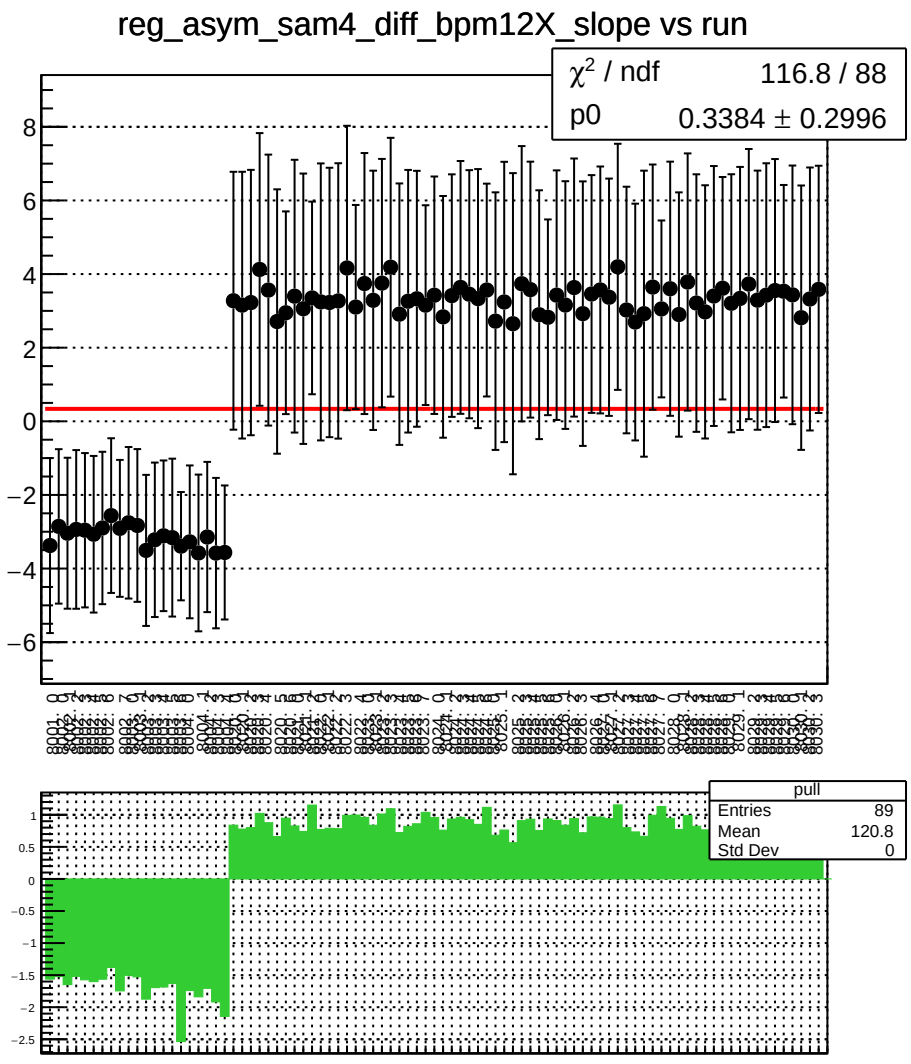

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 12.05 / 88
p0 −42.55 ± 3.716
pull
Entries 89
Mean −44.41
Std Dev 0

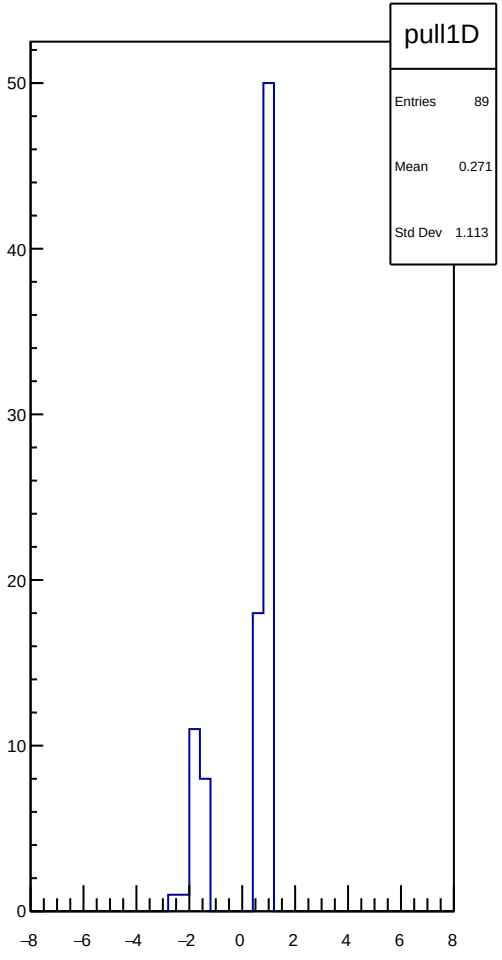

pull1D
Entries 89
Mean −0.07548
Std Dev 0.3601

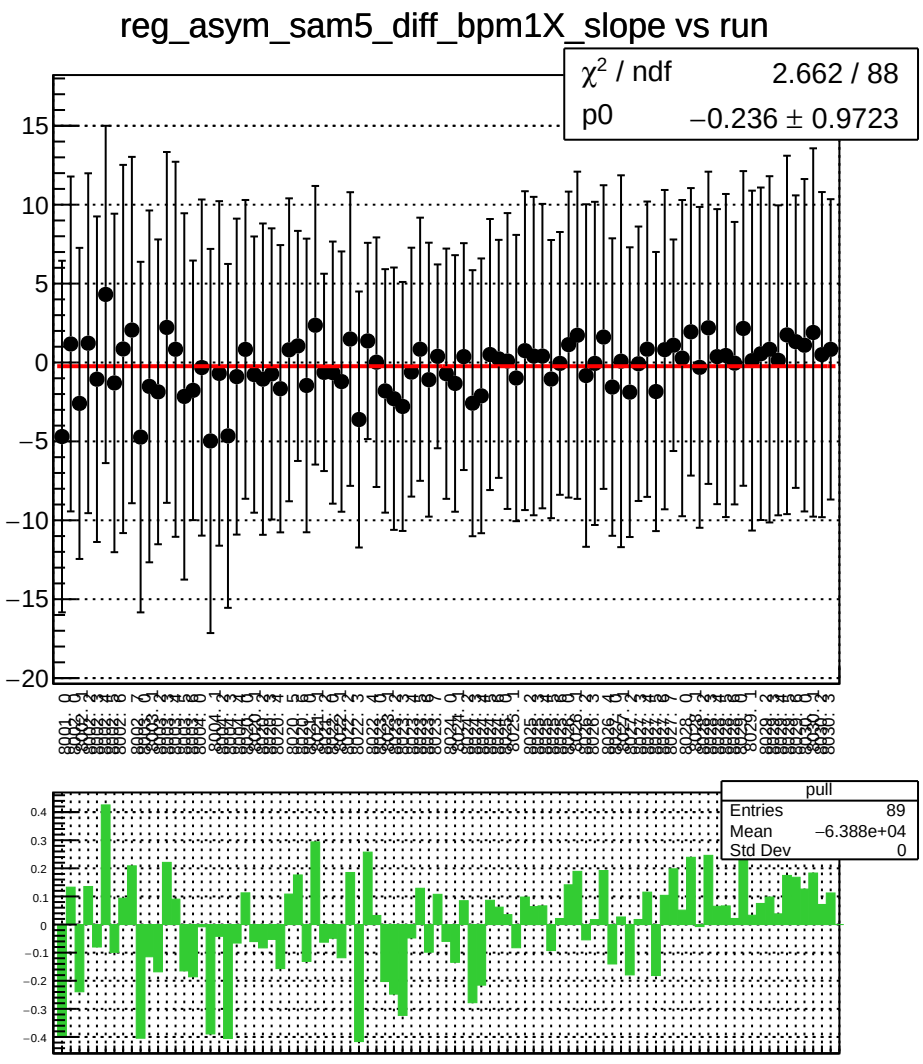

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 1.994 / 88
p0 117 ± 5.943
pull
Entries 89
Mean −210
Std Dev 0
pull1D
Entries 89
Mean 0.005368
Std Dev 0.1496

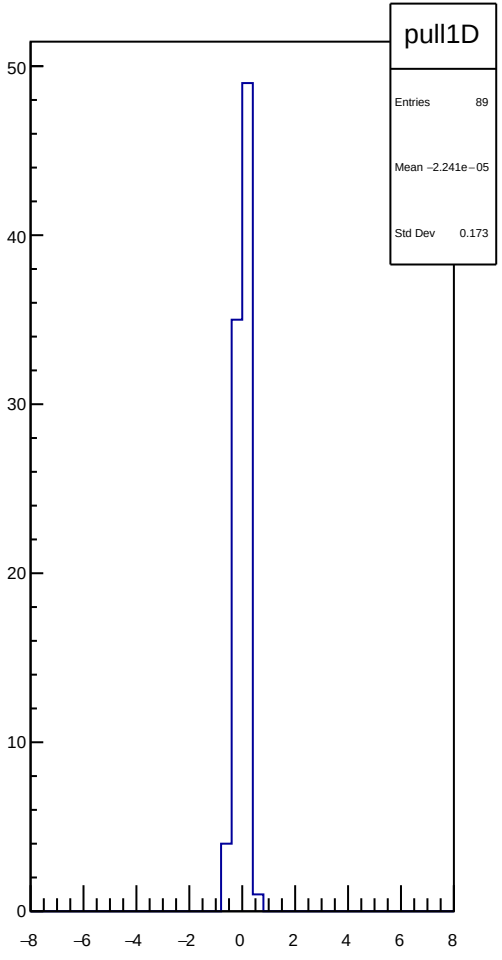

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 7.117 / 88
p0 −129.9 ± 3.897
pull
Entries 89
Mean −73.67
Std Dev 0
pull1D
Entries 89
Mean 0.0447
Std Dev 0.2792

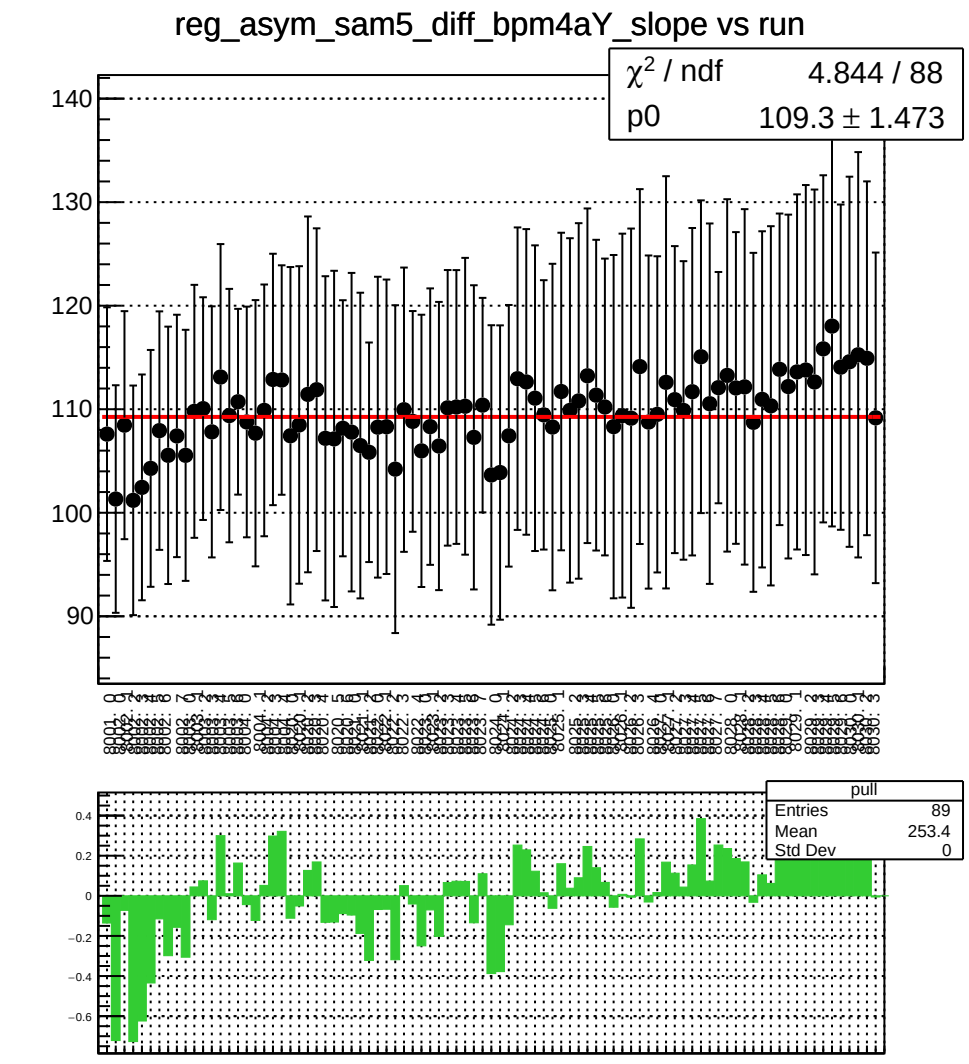

reg_asym_sam4_diff_bpm4eY_slope vs run
χ^2 / ndf 3.874 / 88
p0 107.6 ± 6.371
200
150
100
50
0
pull
Entries 89
Mean −187.3
Std Dev 0
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 89
Mean −0.01414
Std Dev 0.2081
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

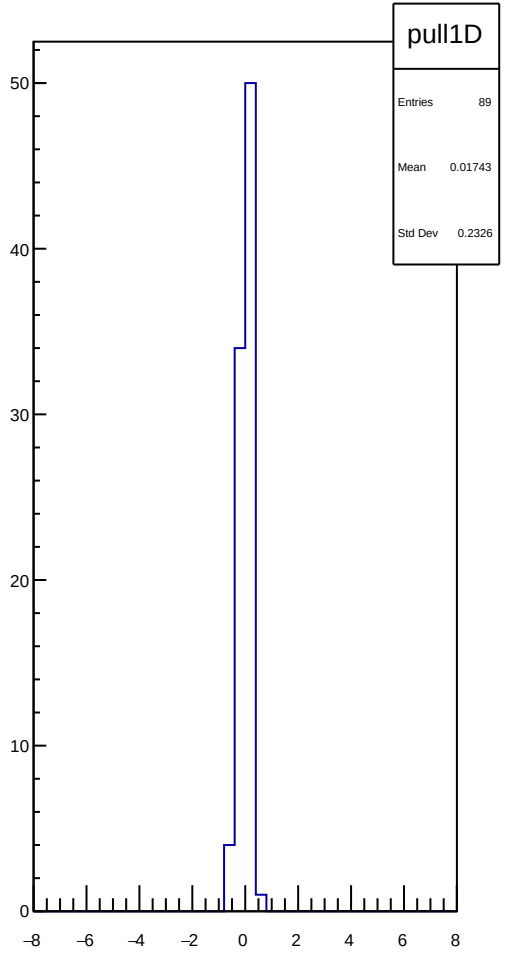

reg_asym_sam4_diff_bpm12X_slope vs run
χ^2 / ndf 116.8 / 88
p0 0.3384 ± 0.2996
pull
Entries 89
Mean 120.8
Std Dev 0

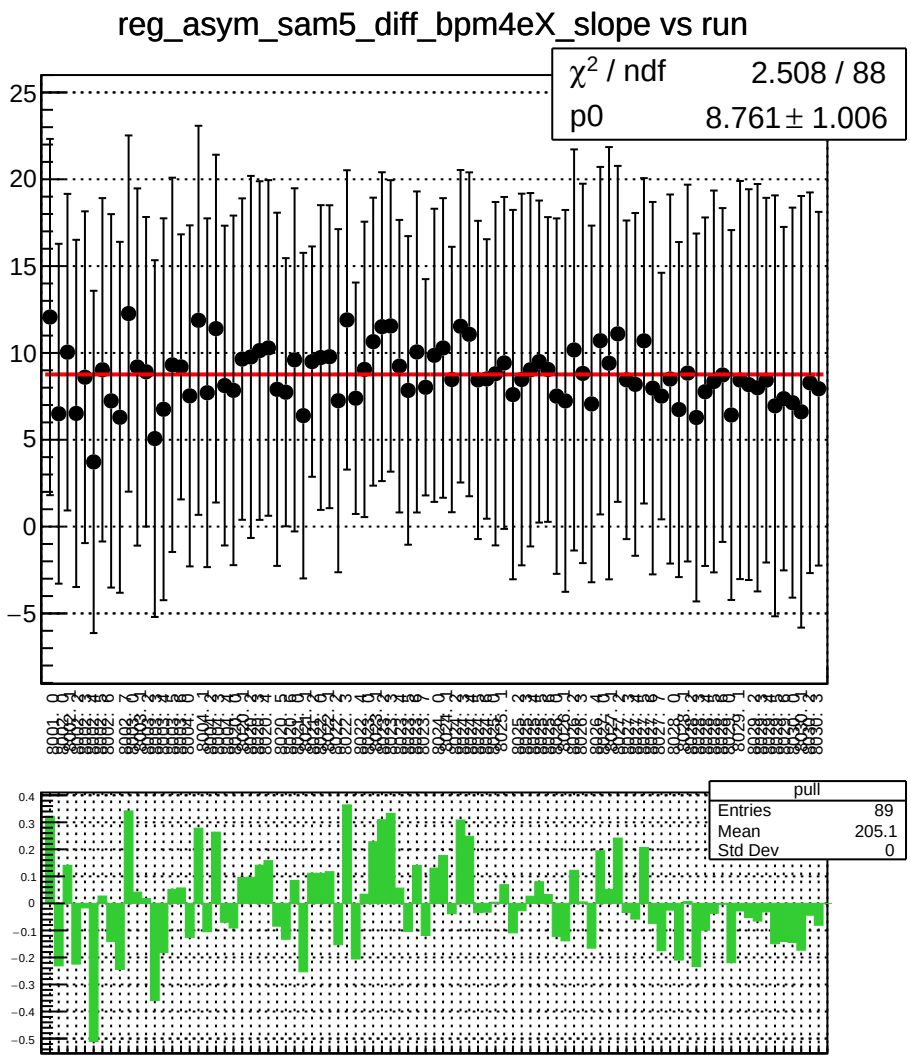

pull1D
Entries 89
Mean 0.271
Std Dev 1.113

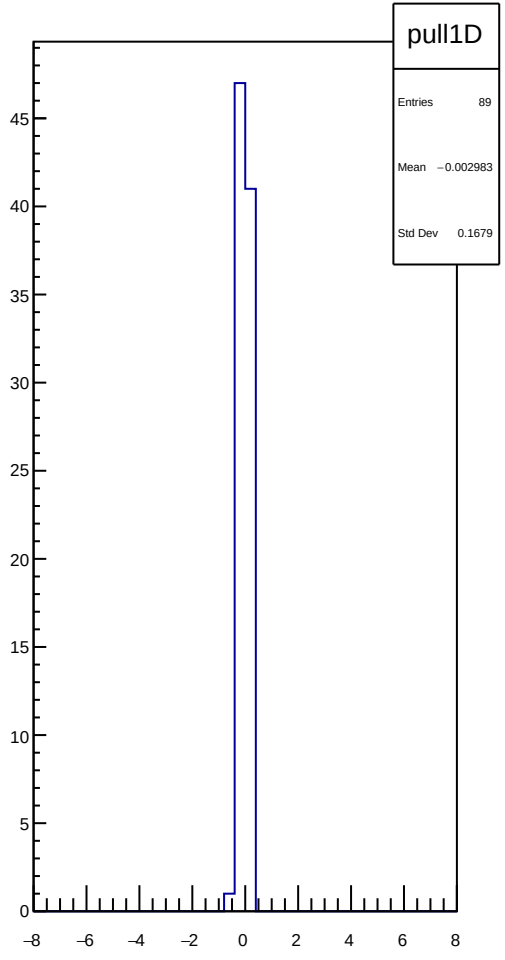

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 2.662 / 88
p0 −0.236 ± 0.9723
pull
Entries 89
Mean −6.388e+04
Std Dev 0

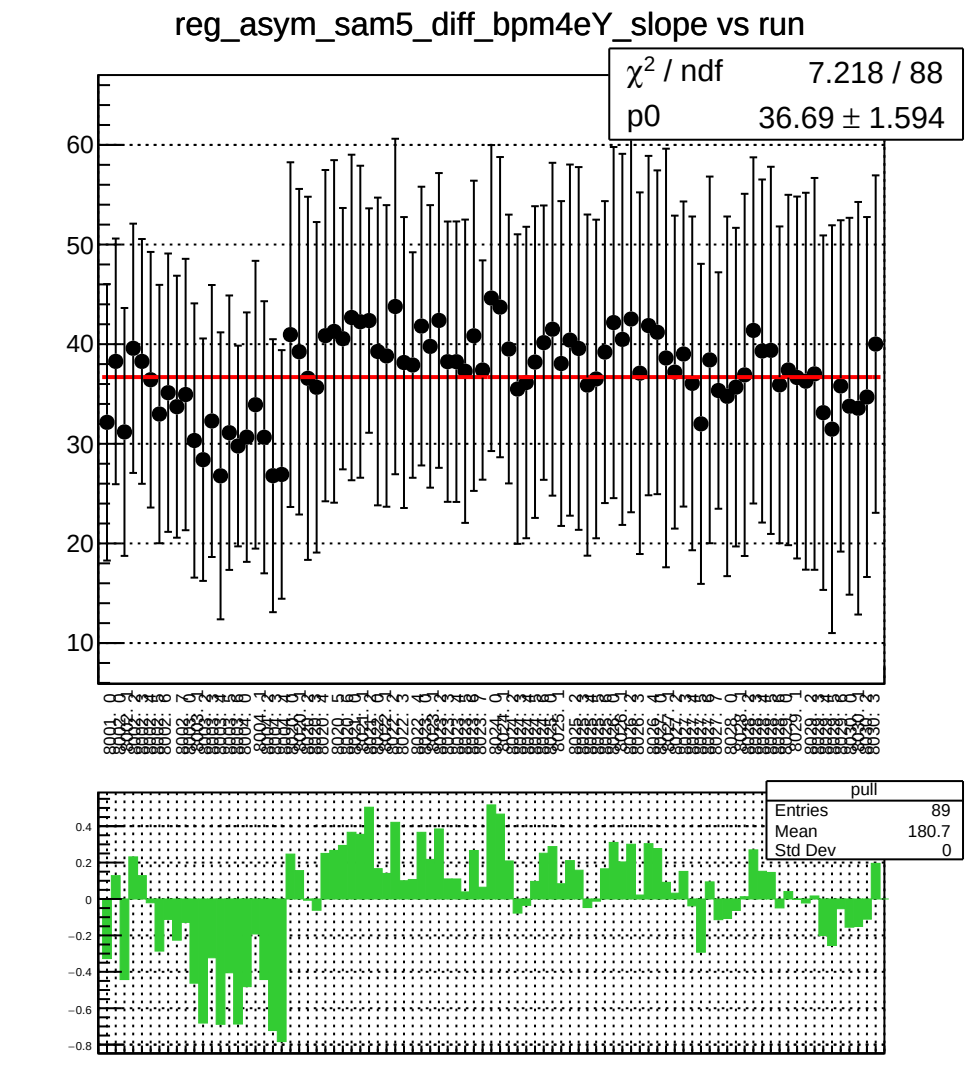

pull1D
Entries 89
Mean −2.241e−05
Std Dev 0.173

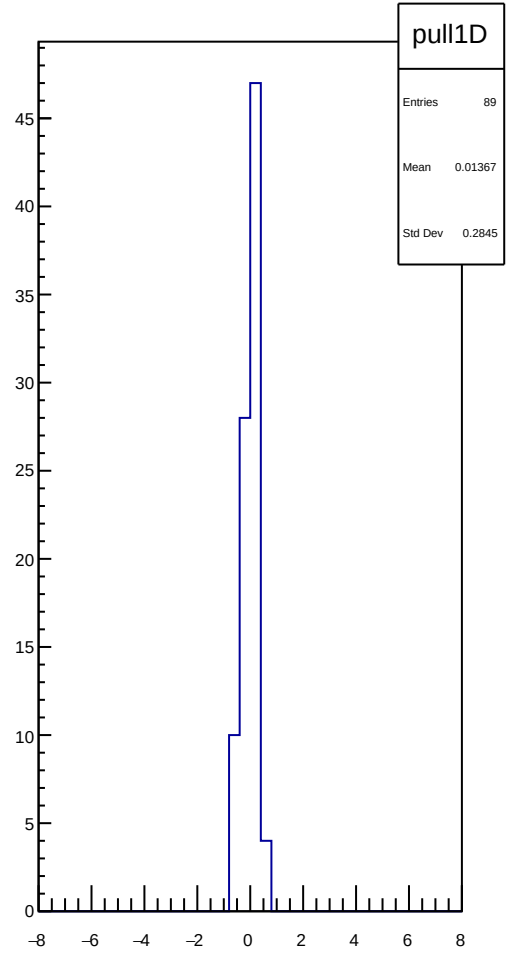

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 4.844 / 88
p0 109.3 ± 1.473
140
130
120
110
100
90
pull
Entries 89
Mean 253.4
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6

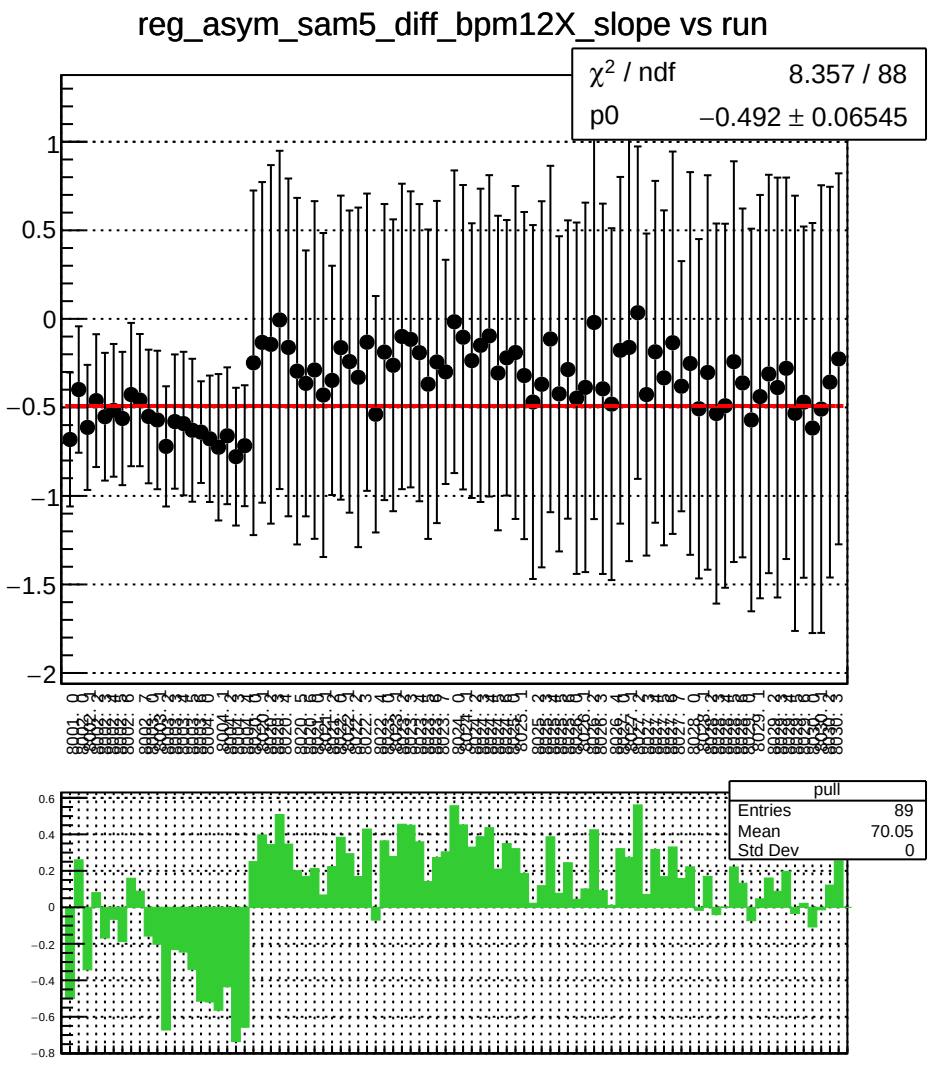

pull1D
Entries 89
Mean 0.01743
Std Dev 0.2326
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

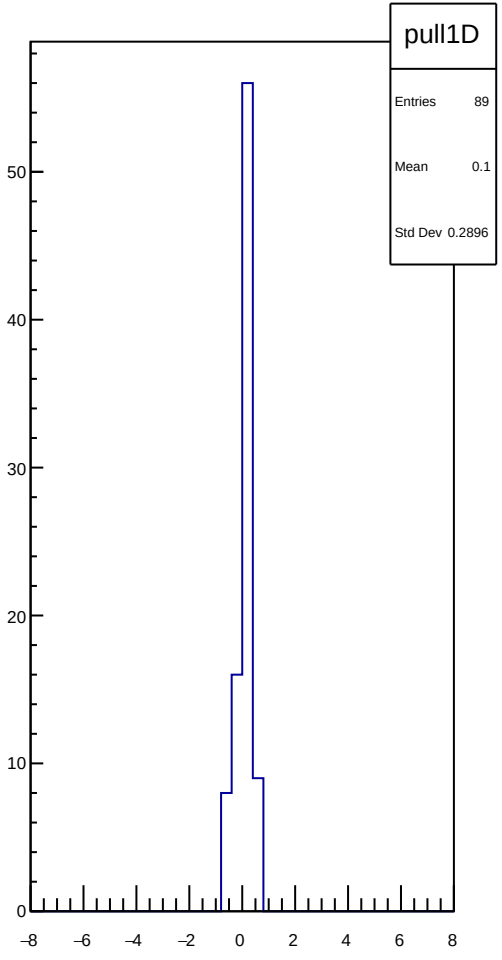

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 2.508 / 88
p0 8.761 ± 1.006
pull
Entries 89
Mean 205.1
Std Dev 0

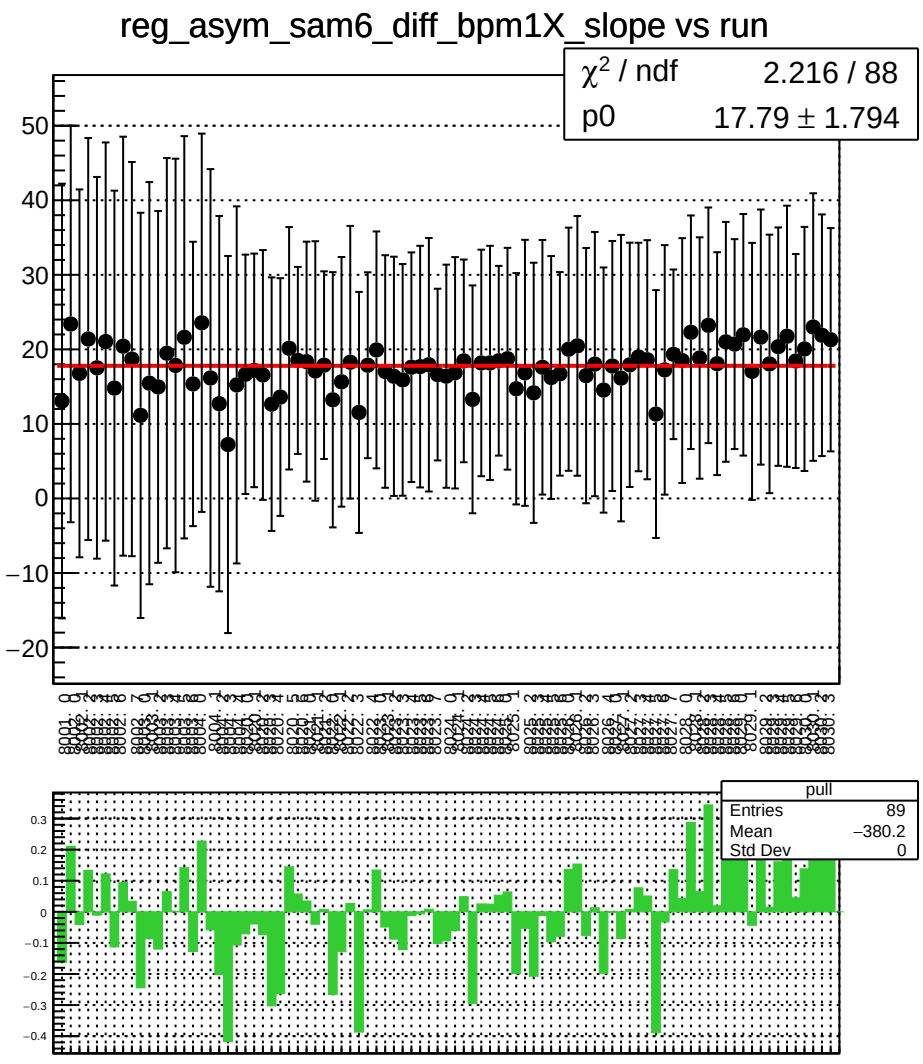

pull1D
Entries 89
Mean −0.002983
Std Dev 0.1679

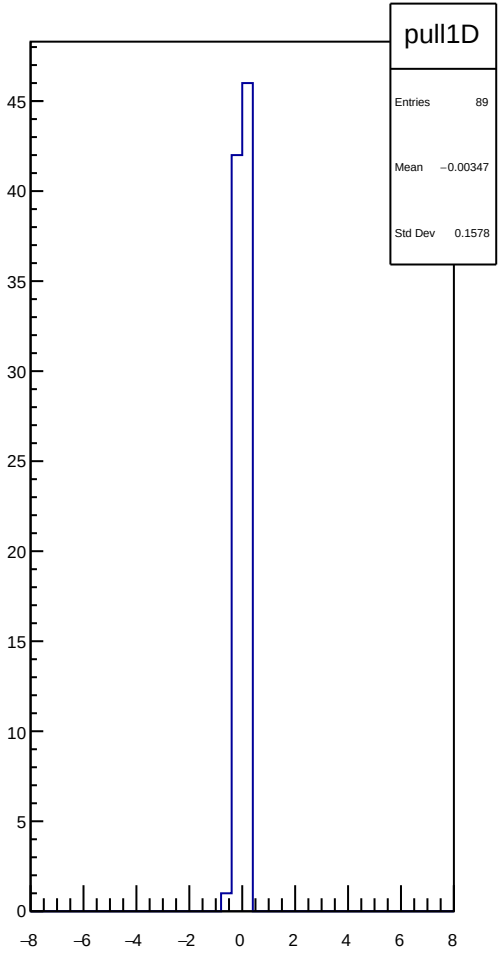

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 7.218 / 88
p0 36.69 ± 1.594
pull
Entries 89
Mean 180.7
Std Dev 0

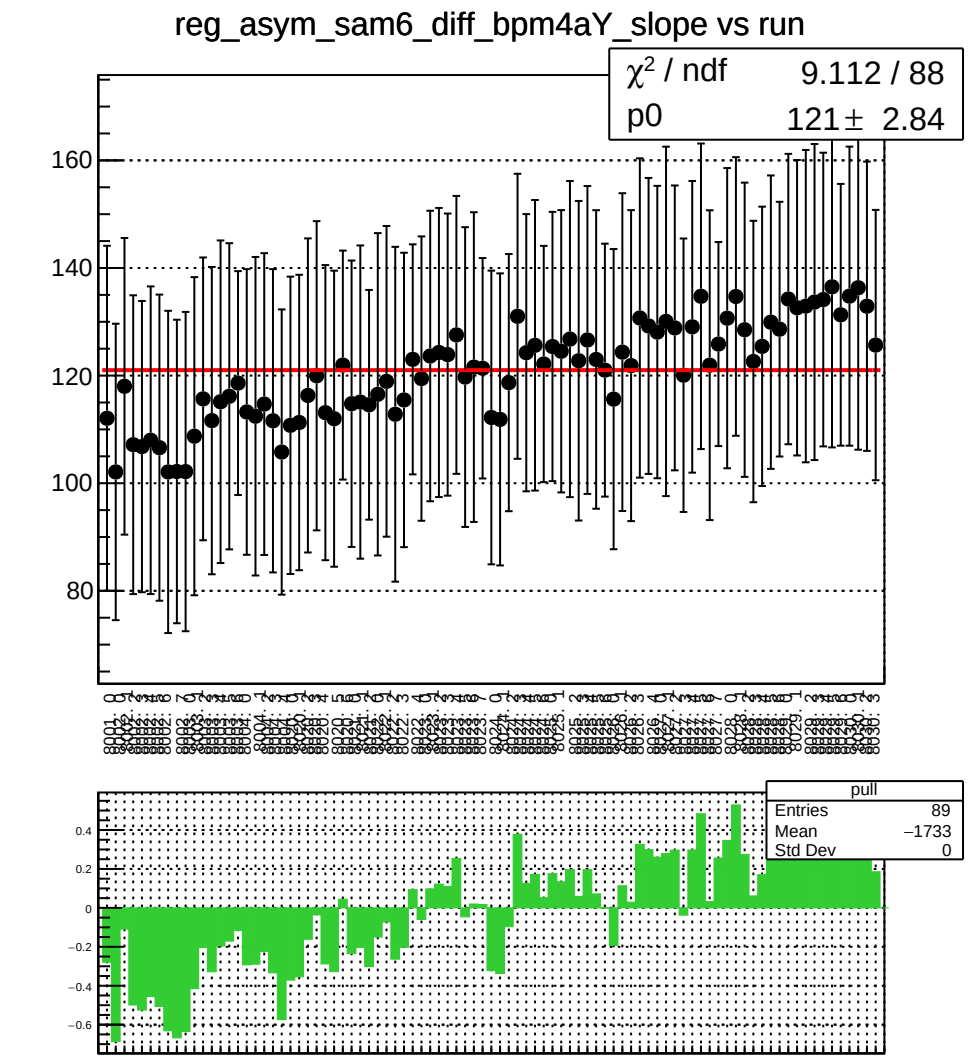

pull1D
Entries 89
Mean 0.01367
Std Dev 0.2845

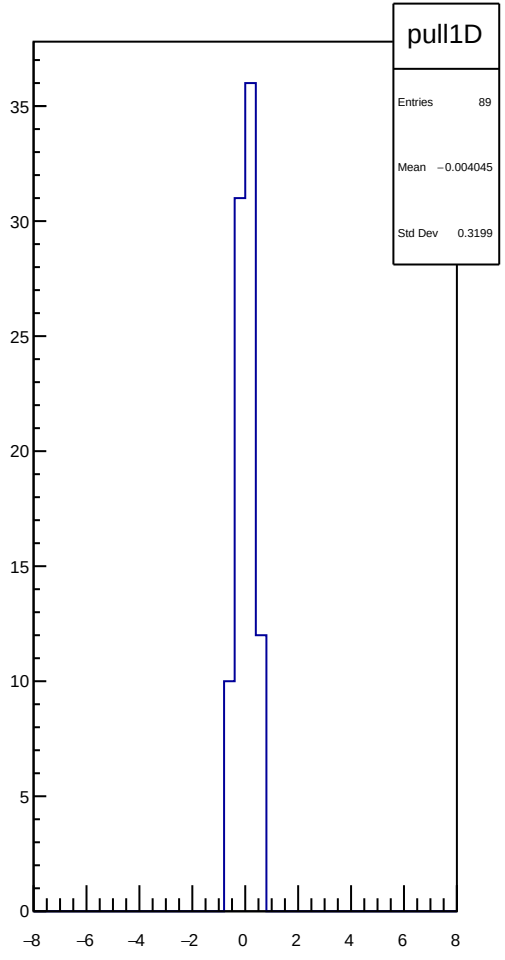

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 8.357 / 88
p0 −0.492 ± 0.06545
pull
Entries 89
Mean 70.05
Std Dev 0

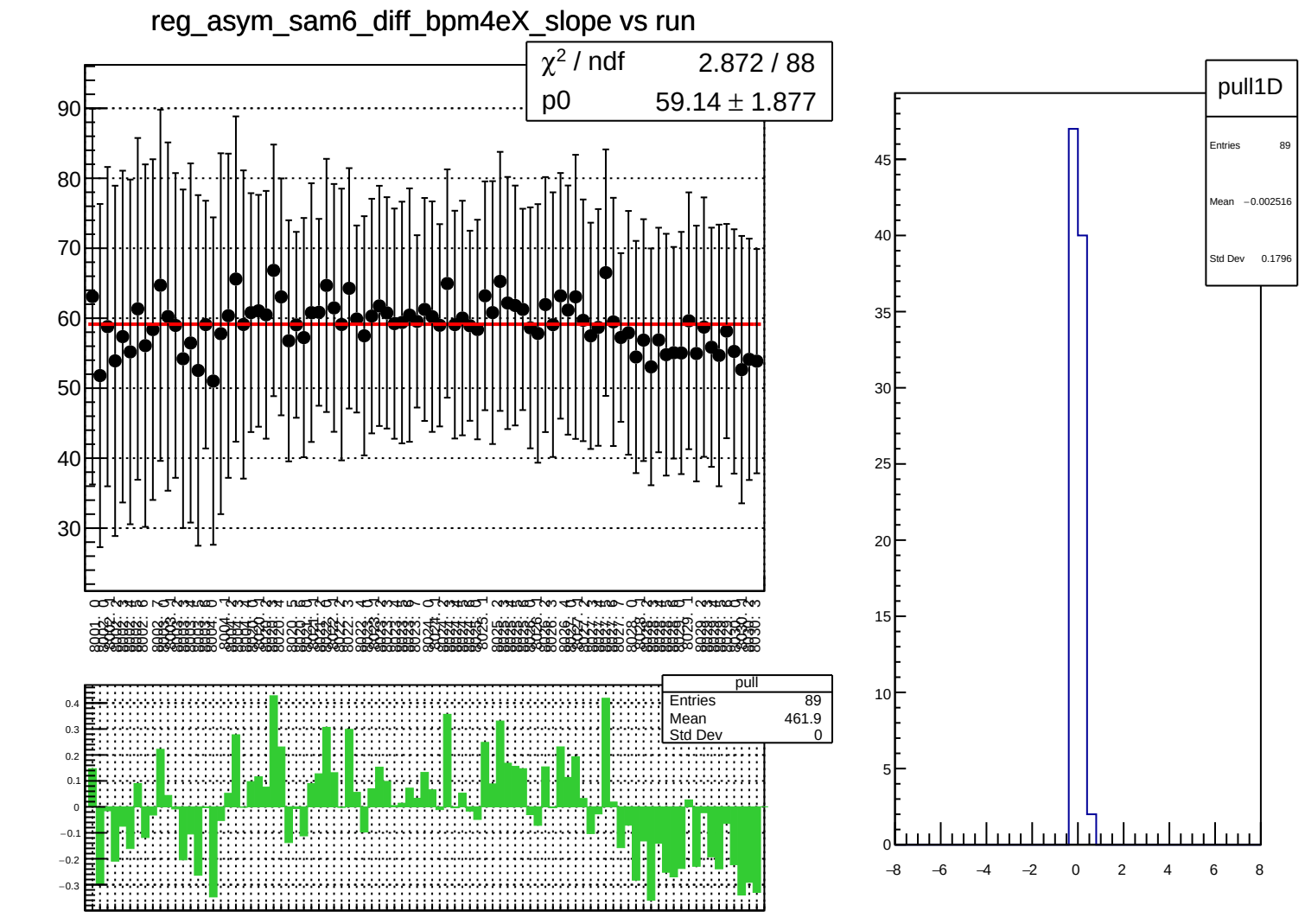

pull1D
Entries 89
Mean 0.1
Std Dev 0.2896

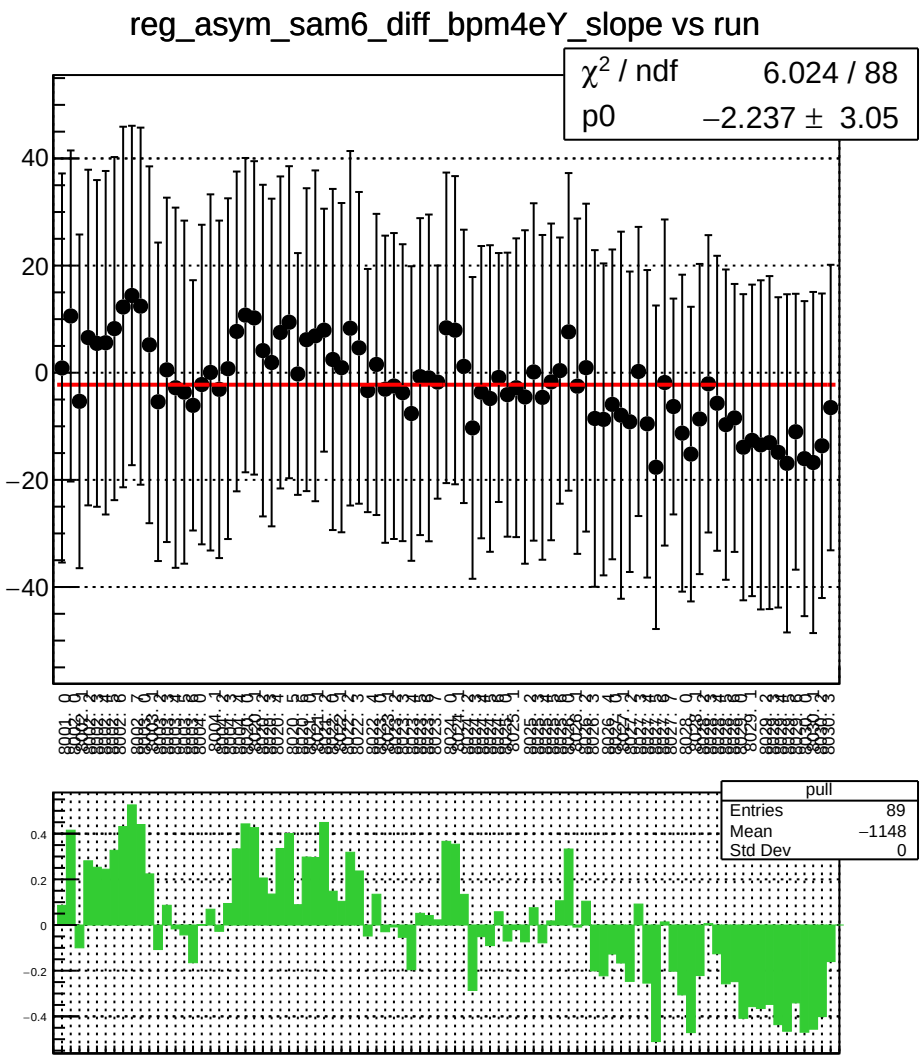

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 2.216 / 88
p0 17.79 ± 1.794
pull
Entries 89
Mean −380.2
Std Dev 0

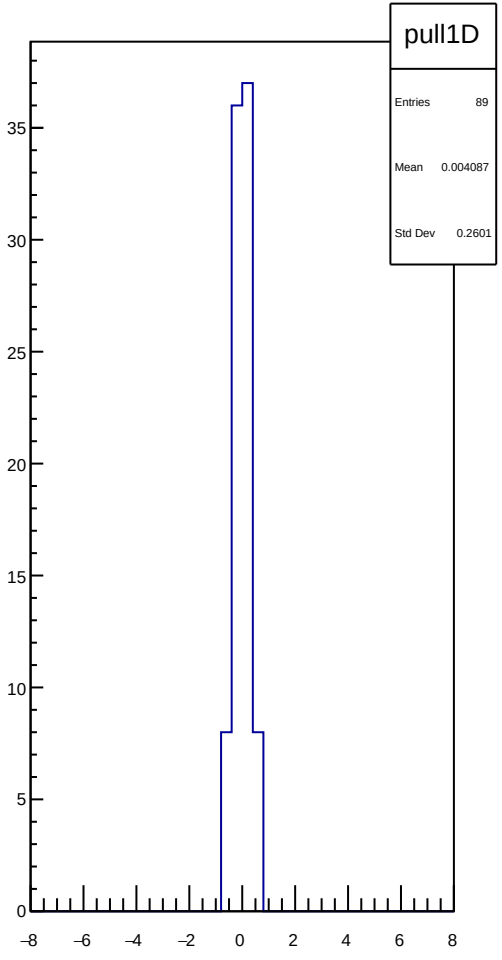

pull1D
Entries 89
Mean −0.00347
Std Dev 0.1578

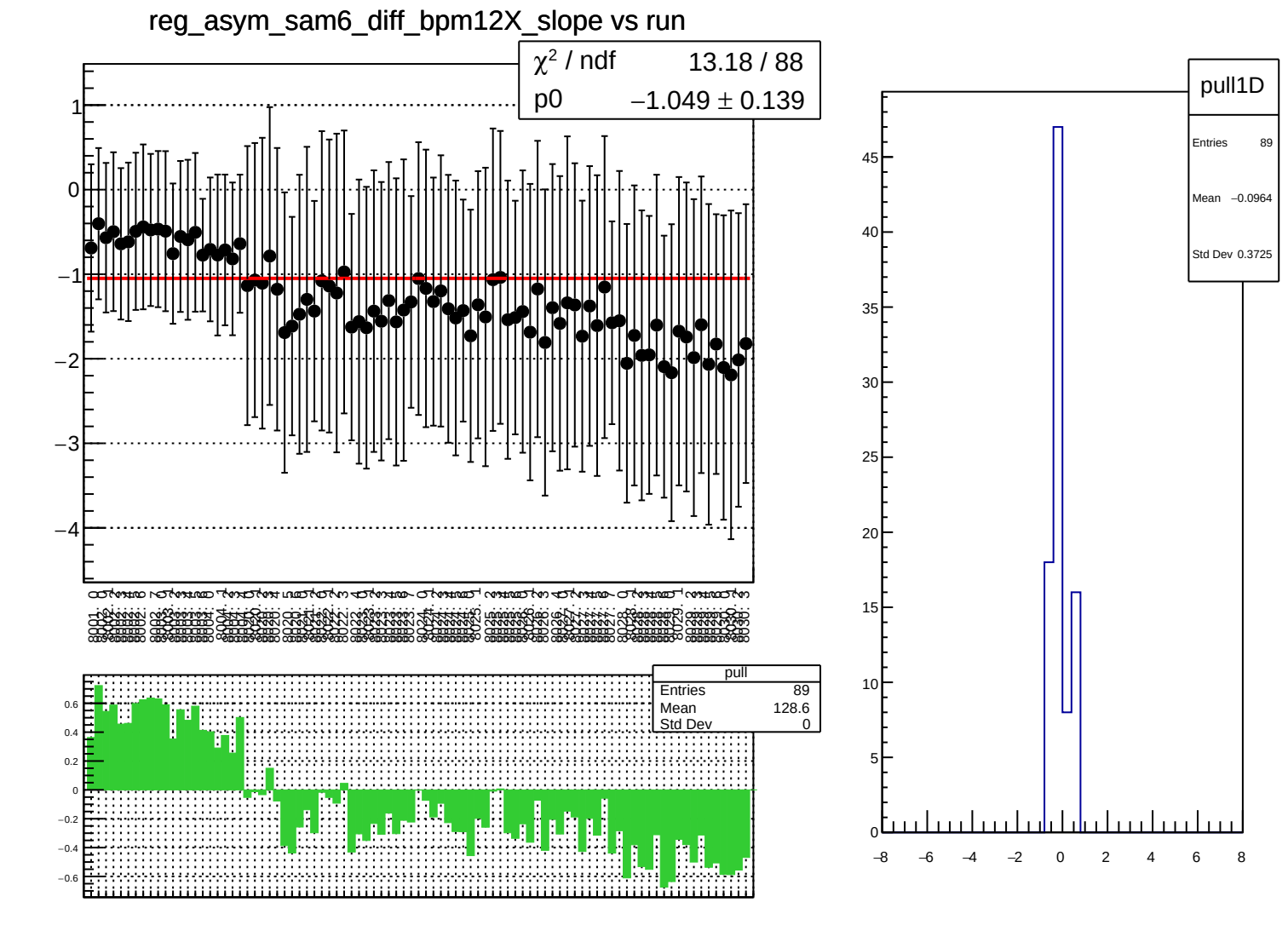

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 9.112 / 88
p0 121 ± 2.84
160
140
120
100
80
pull
Entries 89
Mean −1733
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6

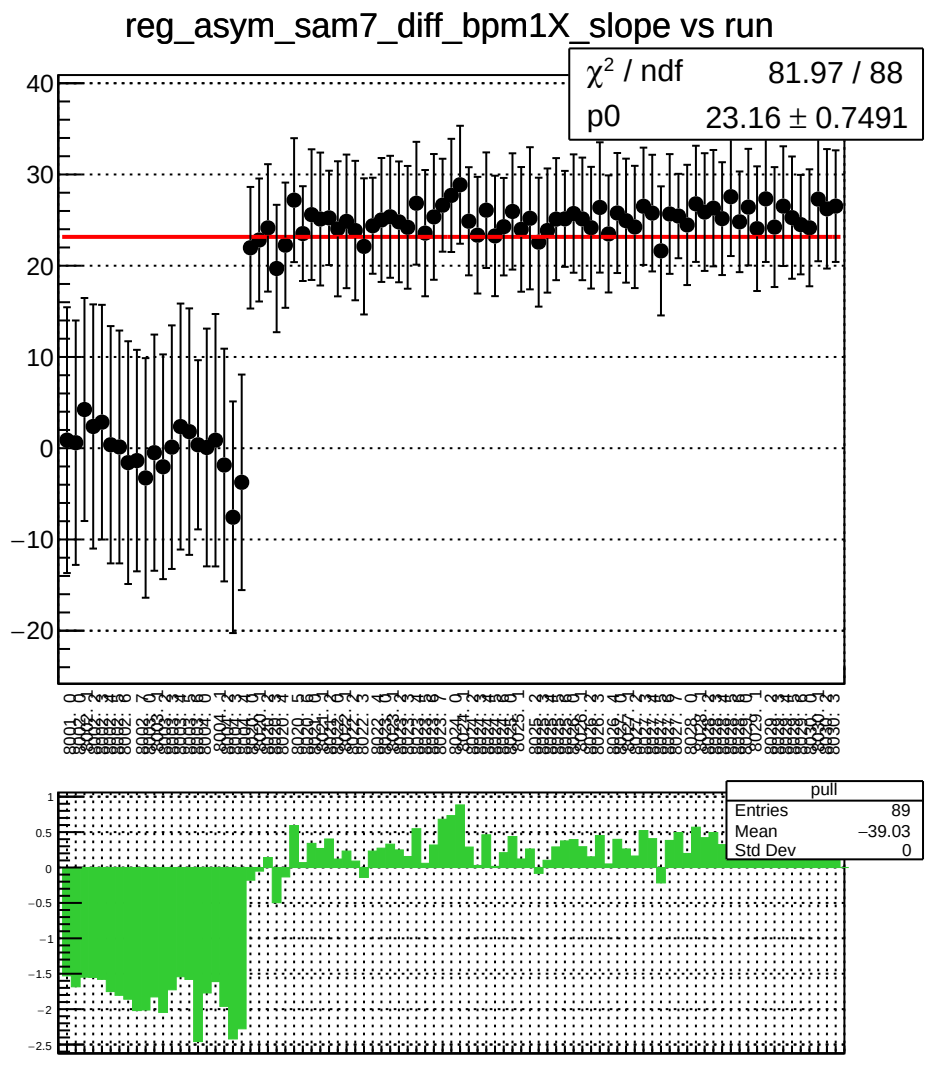

pull1D
Entries 89
Mean −0.004045
Std Dev 0.3199
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

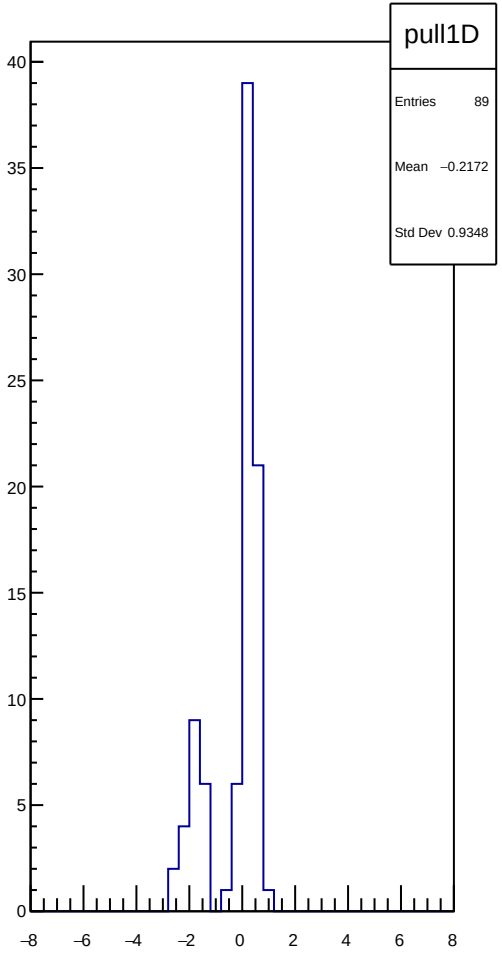

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 2.872 / 88
p0 59.14 ± 1.877
pull
Entries 89
Mean 461.9
Std Dev 0
pull1D
Entries 89
Mean −0.002516
Std Dev 0.1796

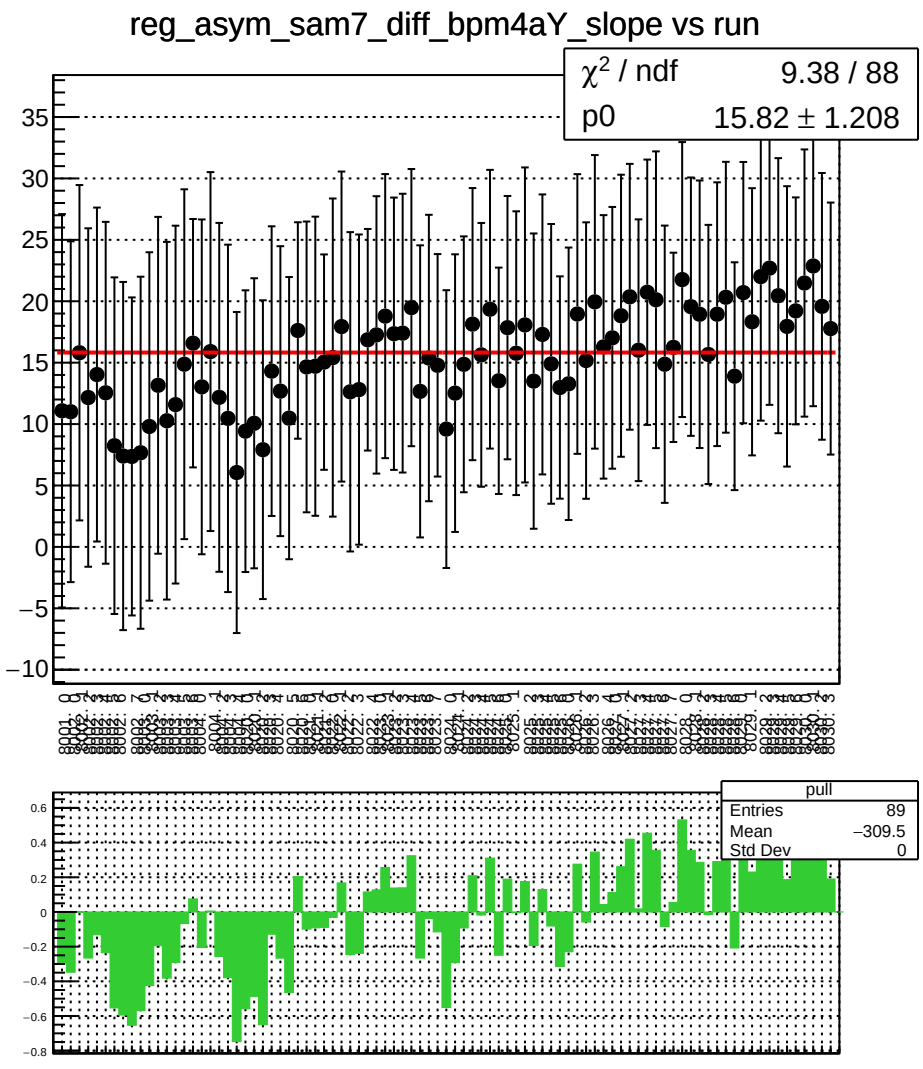

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 6.024 / 88
p0 −2.237 ± 3.05
pull
Entries 89
Mean −1148
Std Dev 0

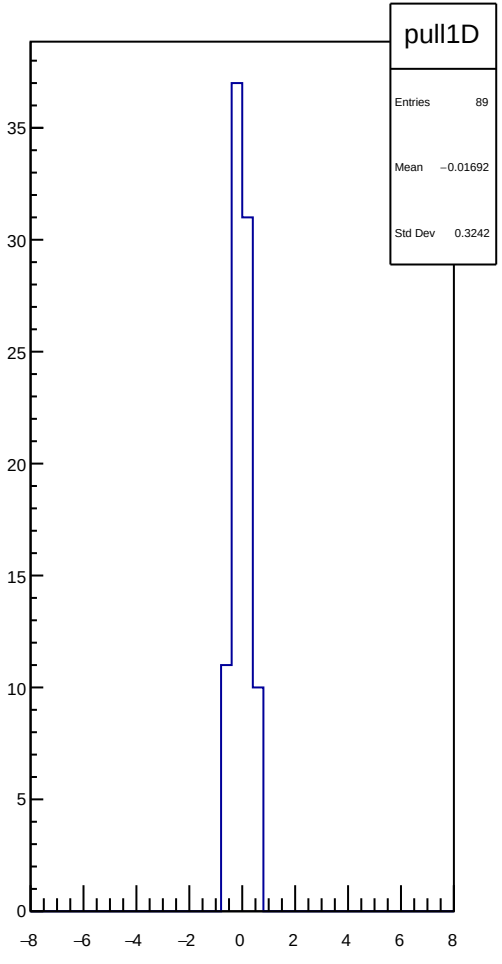

pull1D
Entries 89
Mean 0.004087
Std Dev 0.2601

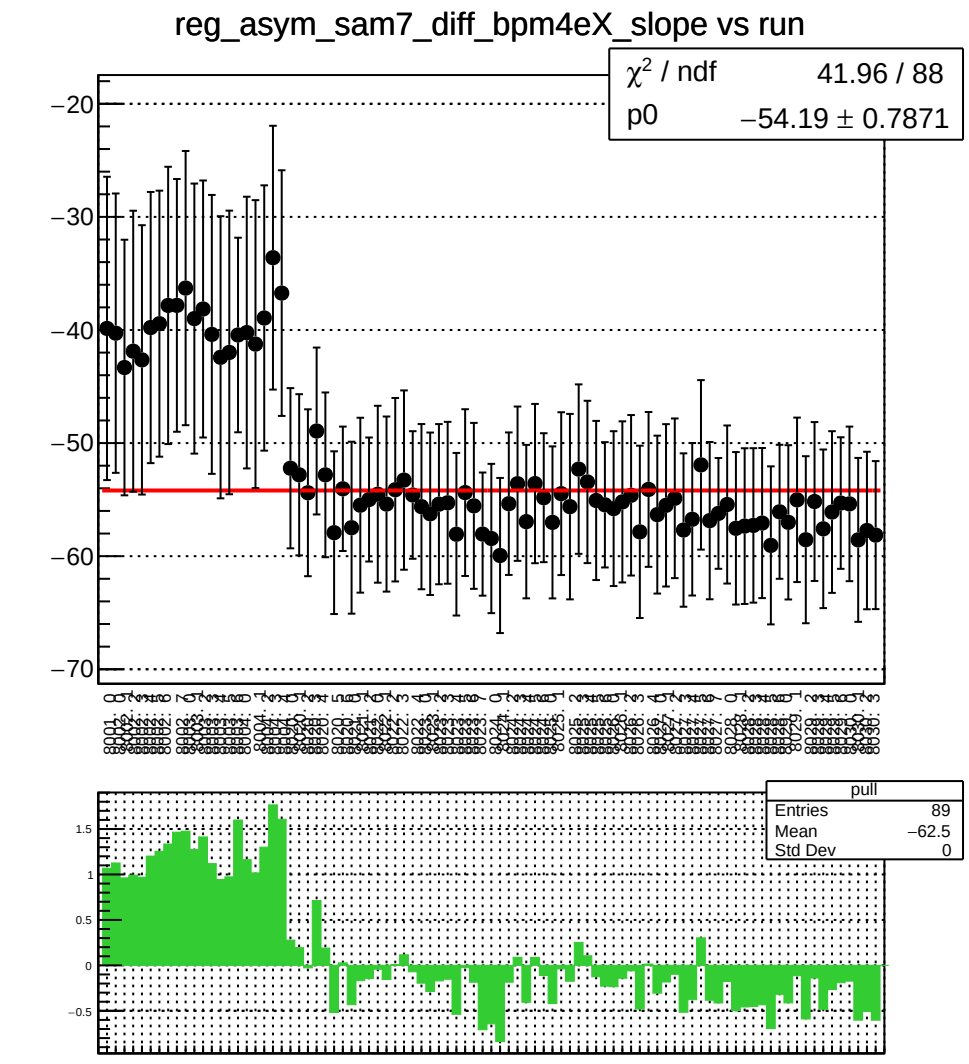

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 13.18 / 88
p0 −1.049 ± 0.139
pull
Entries 89
Mean 128.6
Std Dev 0
pull1D
Entries 89
Mean −0.0964
Std Dev 0.3725

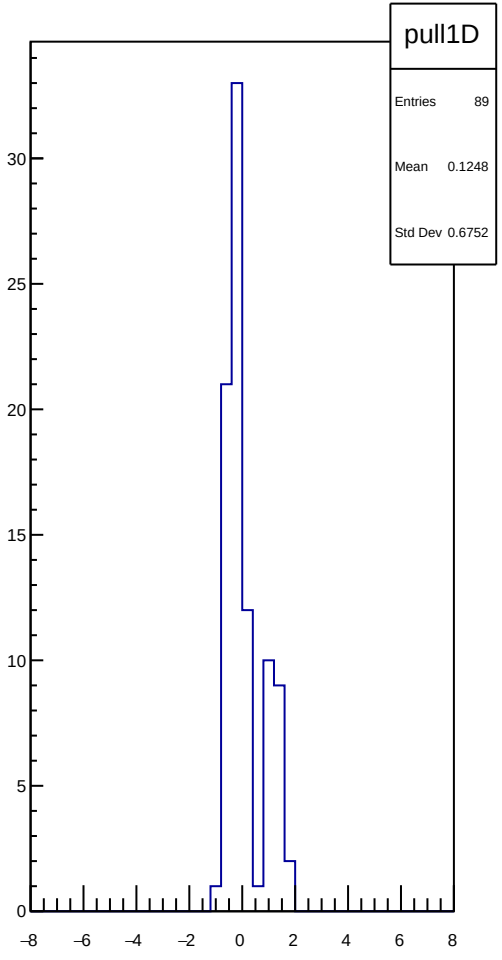

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 81.97 / 88
p0 23.16 ± 0.7491
pull
Entries 89
Mean −39.03
Std Dev 0

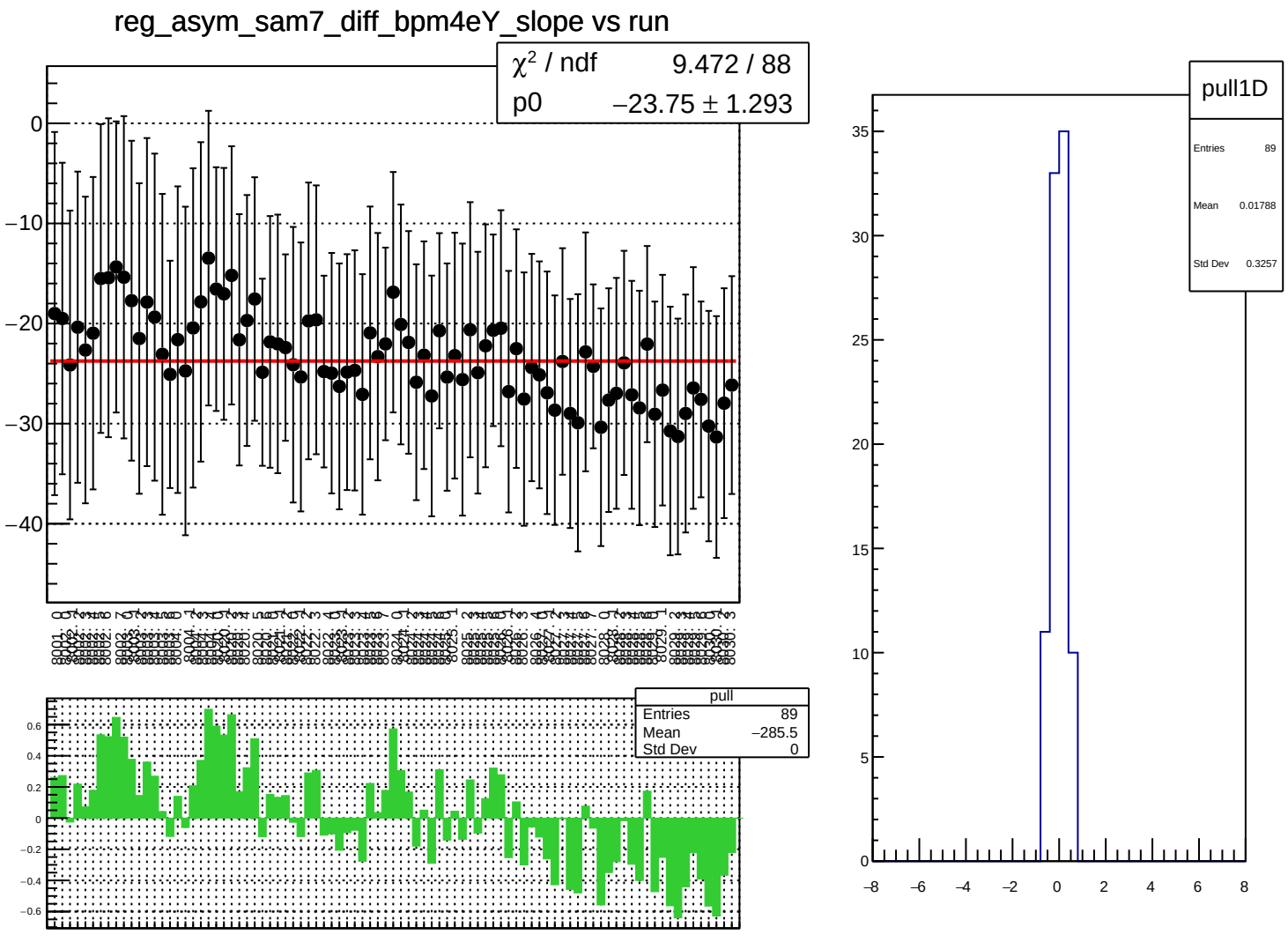

pull1D
Entries 89
Mean −0.2172
Std Dev 0.9348

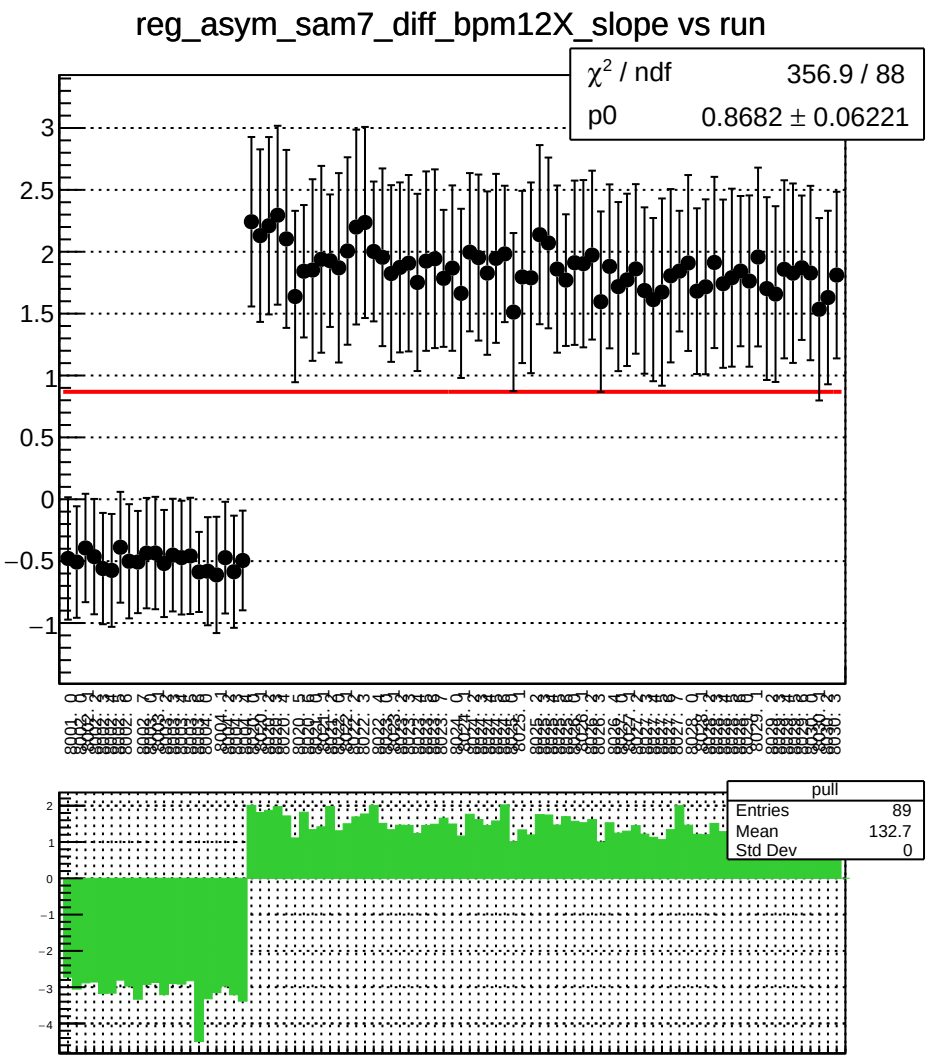

reg_asym_sam7_diff_bpm4aY_slope vs run
χ^2 / ndf 9.38 / 88
p0 15.82 ± 1.208
pull
Entries 89
Mean −309.5
Std Dev 0

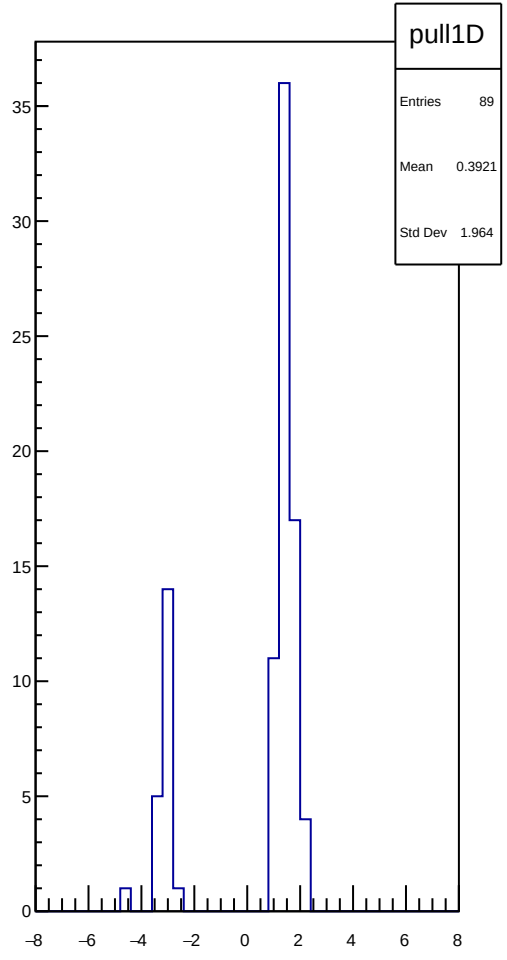

pull1D
Entries 89
Mean −0.01692
Std Dev 0.3242

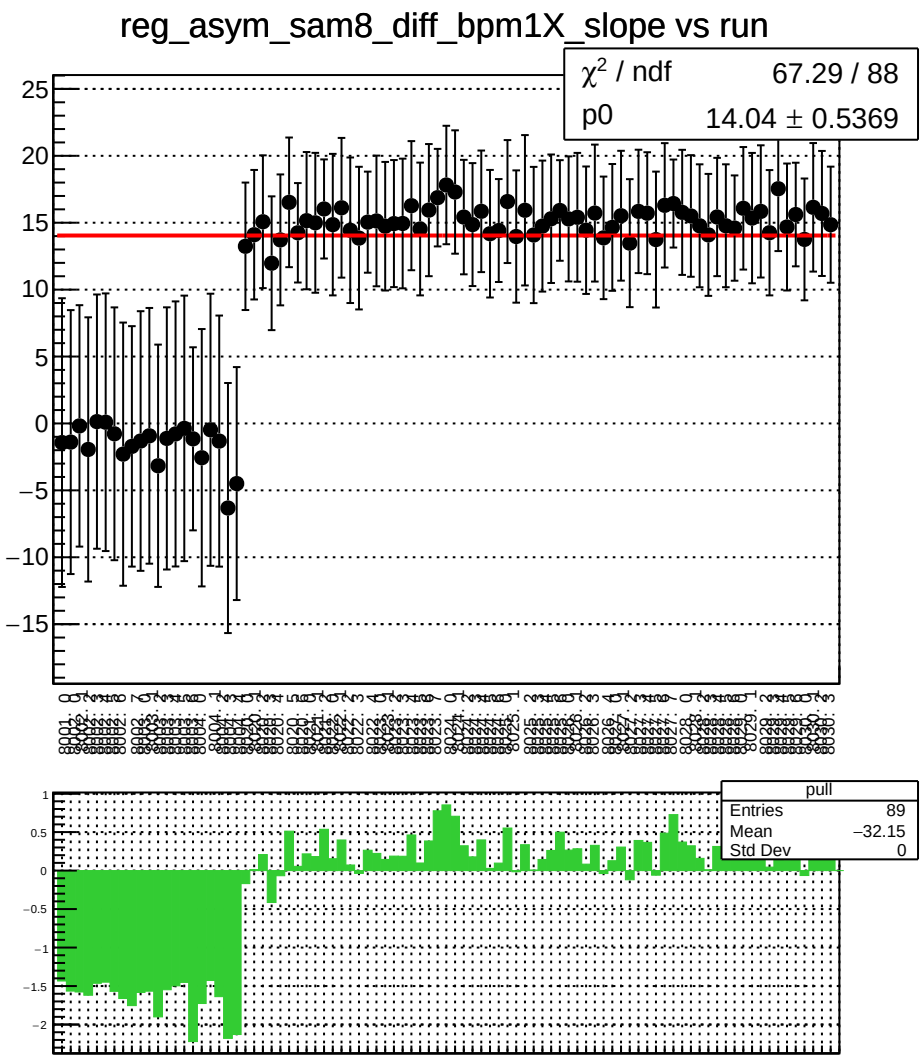

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 41.96 / 88
p0 −54.19 ± 0.7871
pull
Entries 89
Mean −62.5
Std Dev 0

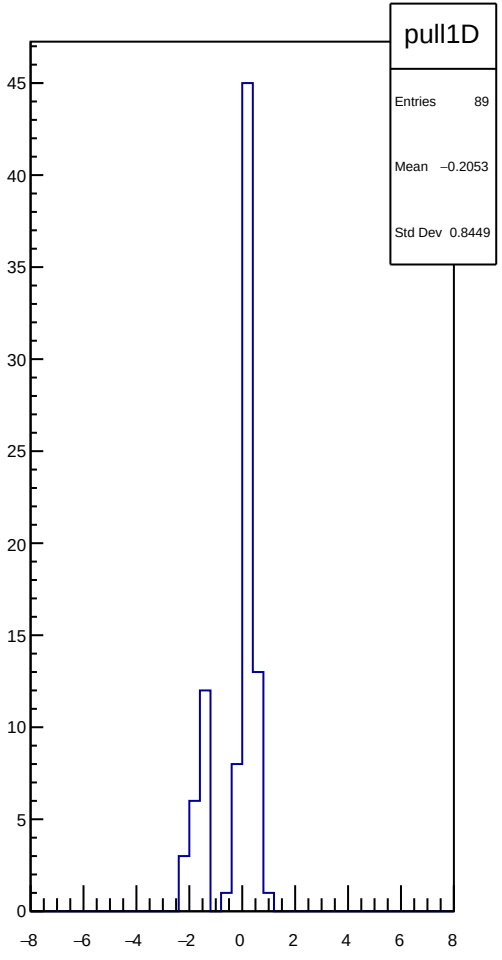

pull1D
Entries 89
Mean 0.1248
Std Dev 0.6752

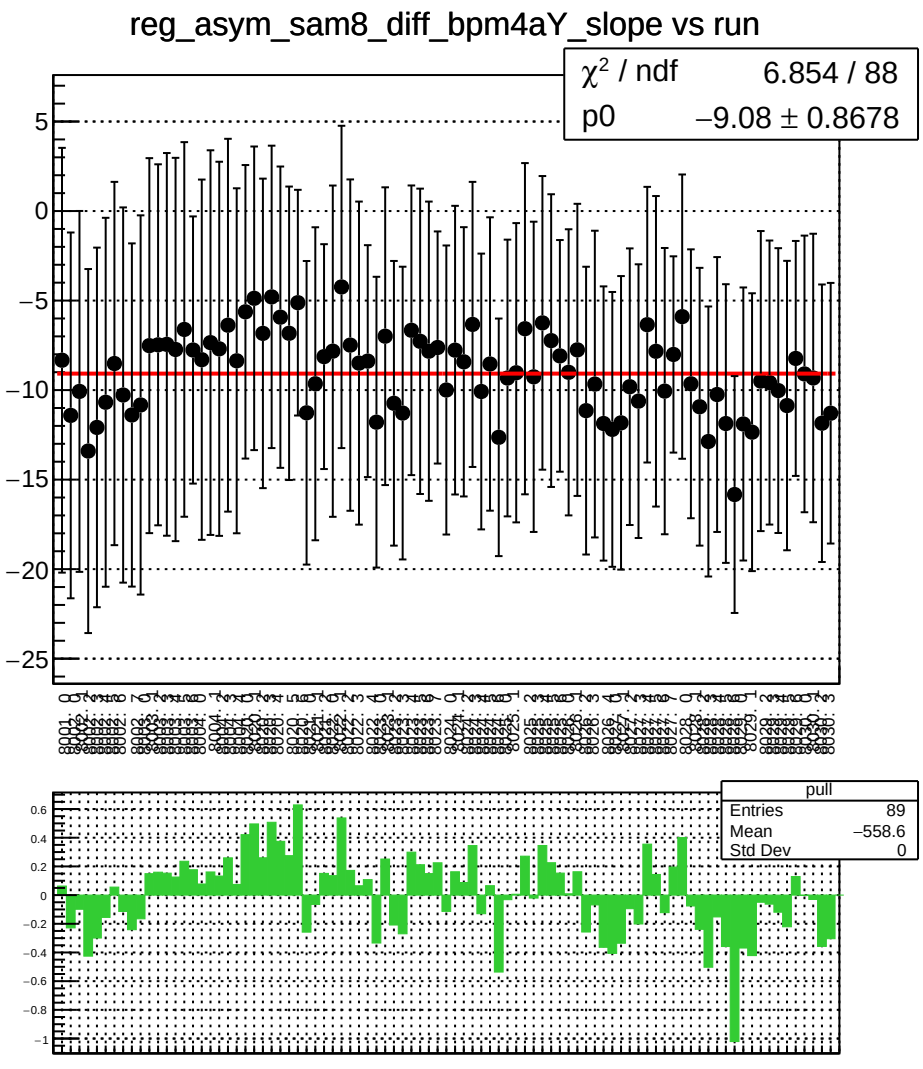

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 9.472 / 88
p0 −23.75 ± 1.293
0
−10
−20
−30
−40
pull
Entries 89
Mean −285.5
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 89
Mean 0.01788
Std Dev 0.3257
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

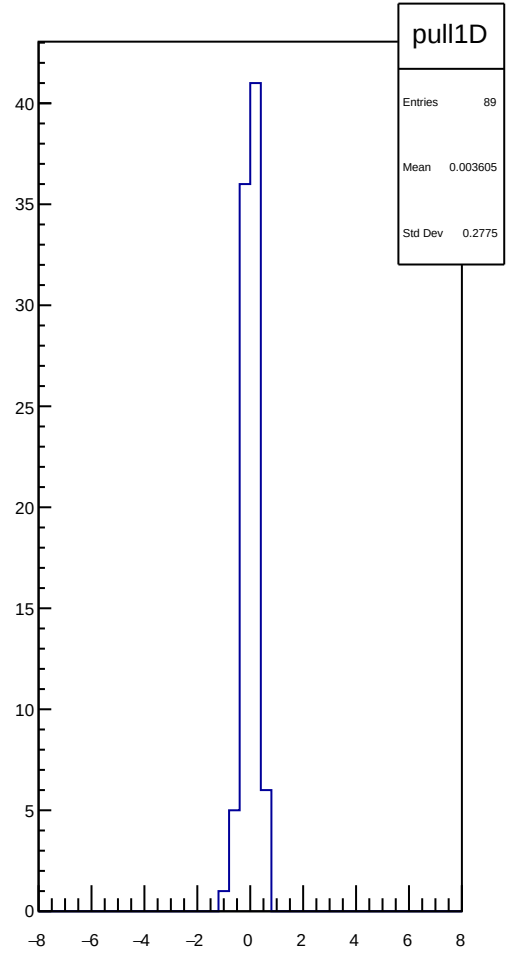

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 356.9 / 88
p0 0.8682 ± 0.06221
pull
Entries 89
Mean 132.7
Std Dev 0

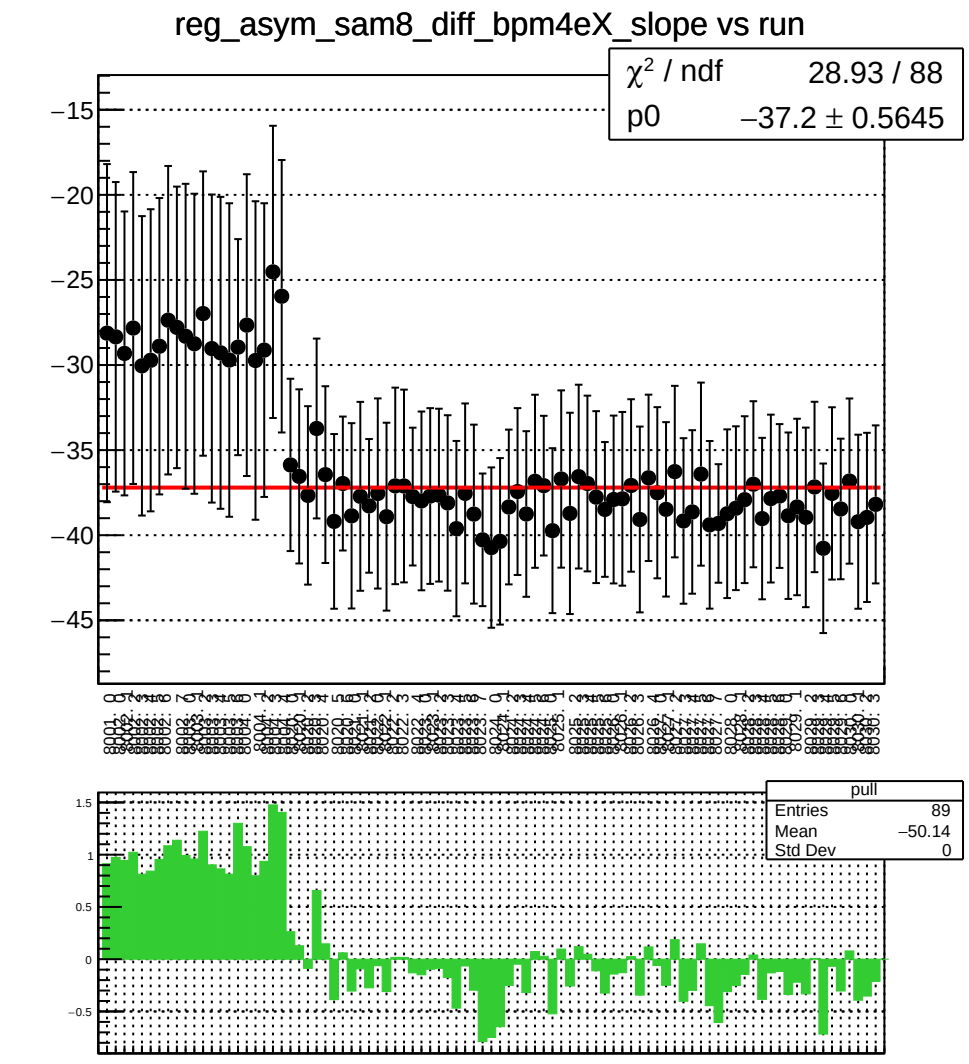

pull1D
Entries 89
Mean 0.3921
Std Dev 1.964

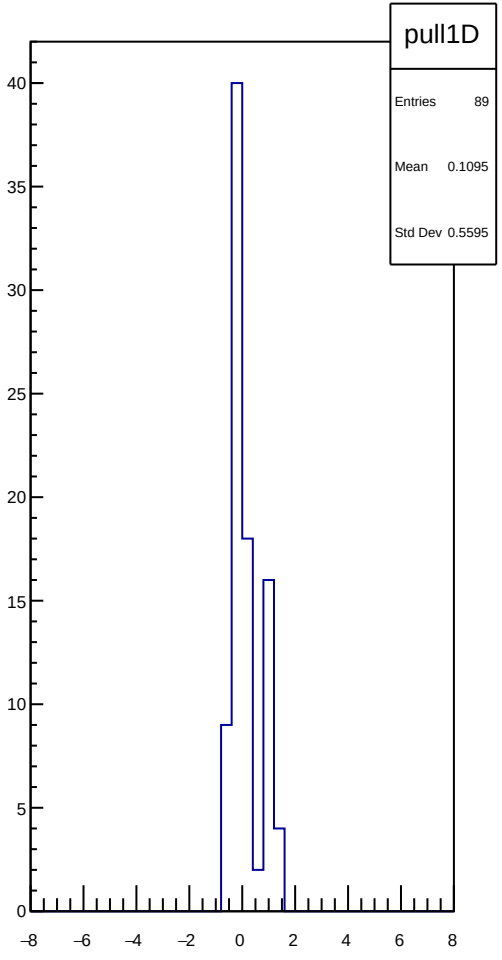

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 67.29 / 88
p0 14.04 ± 0.5369
pull
Entries 89
Mean −32.15
Std Dev 0

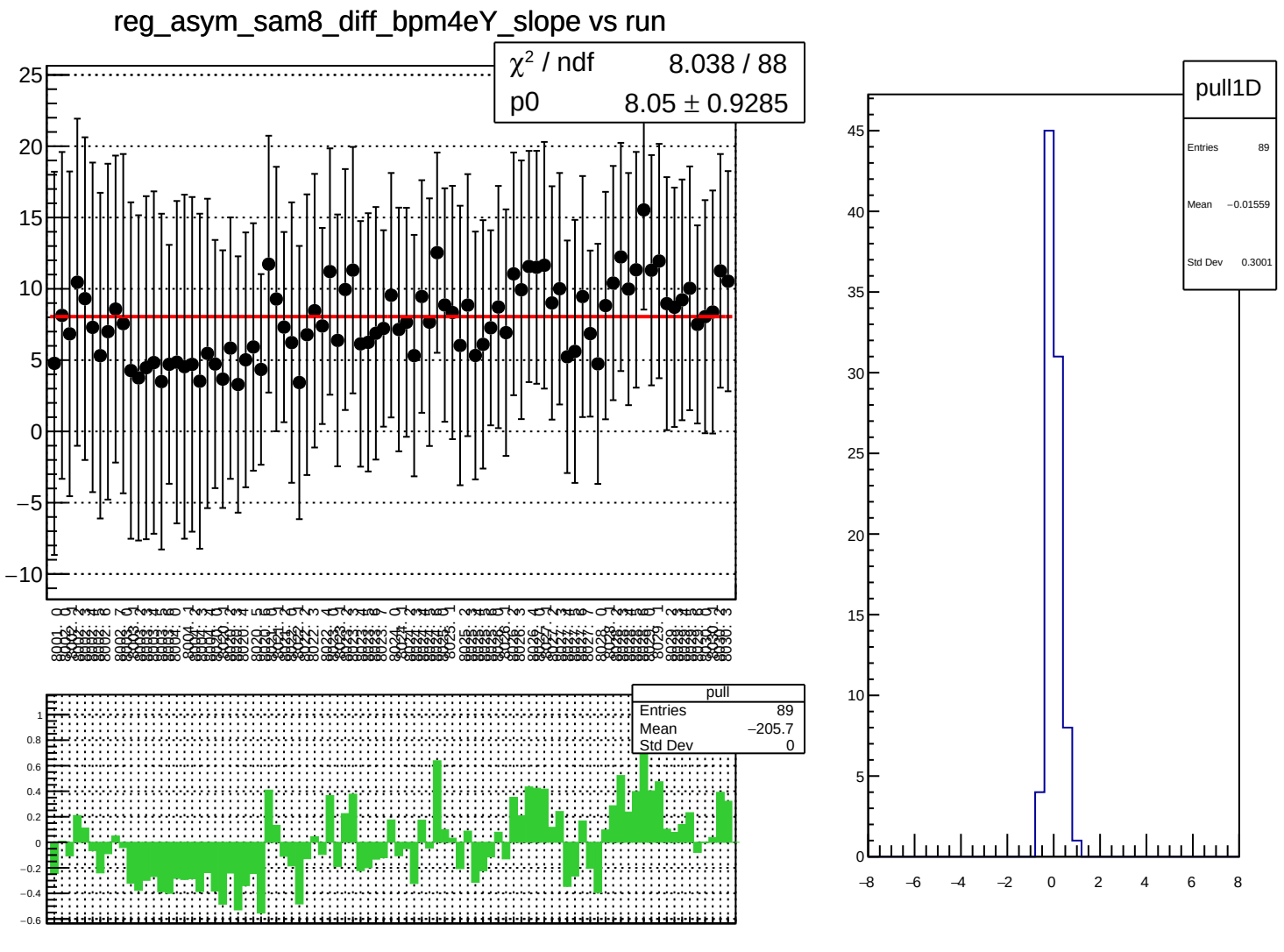

pull1D
Entries 89
Mean −0.2053
Std Dev 0.8449

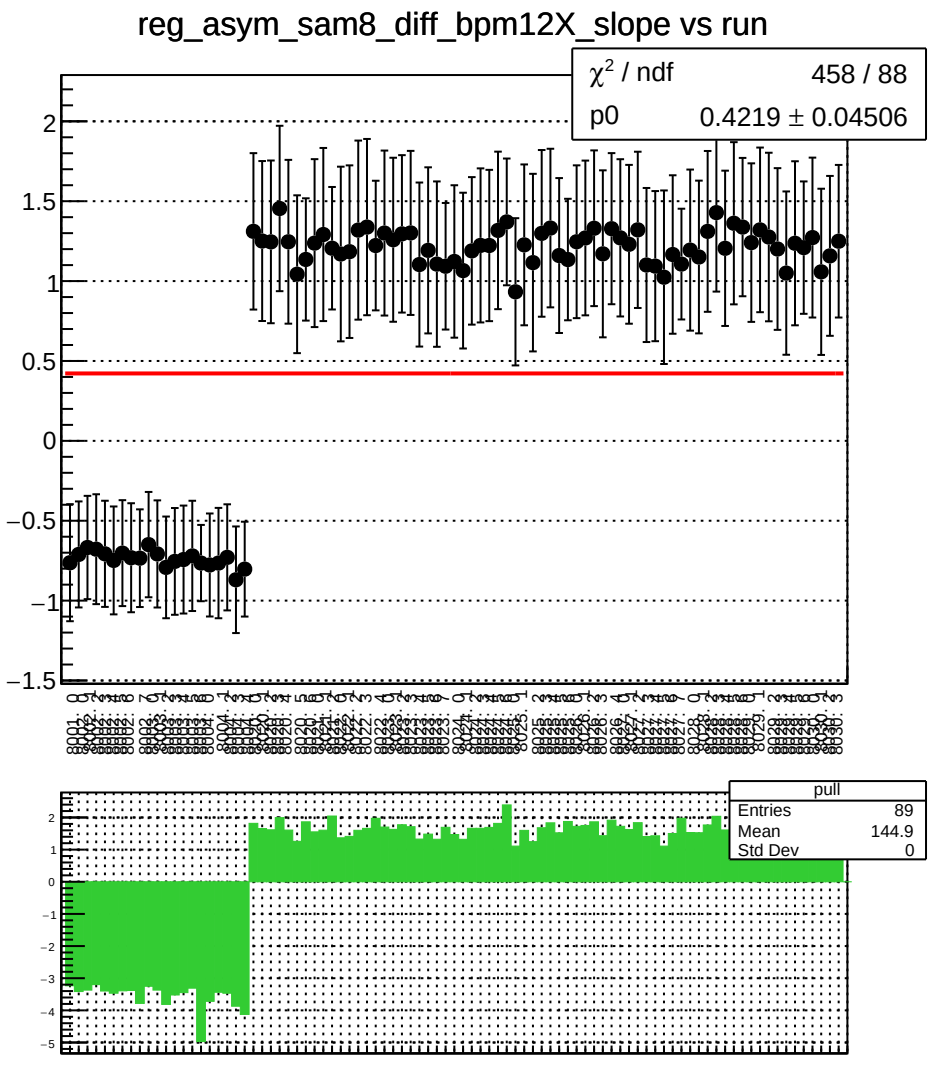

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 6.854 / 88
p0 −9.08 ± 0.8678
pull
Entries 89
Mean −558.6
Std Dev 0

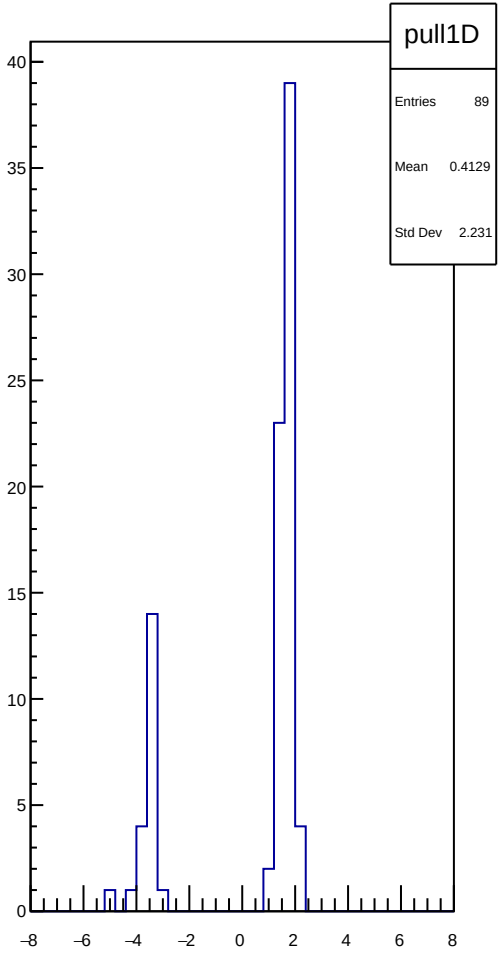

pull1D
Entries 89
Mean 0.003605
Std Dev 0.2775

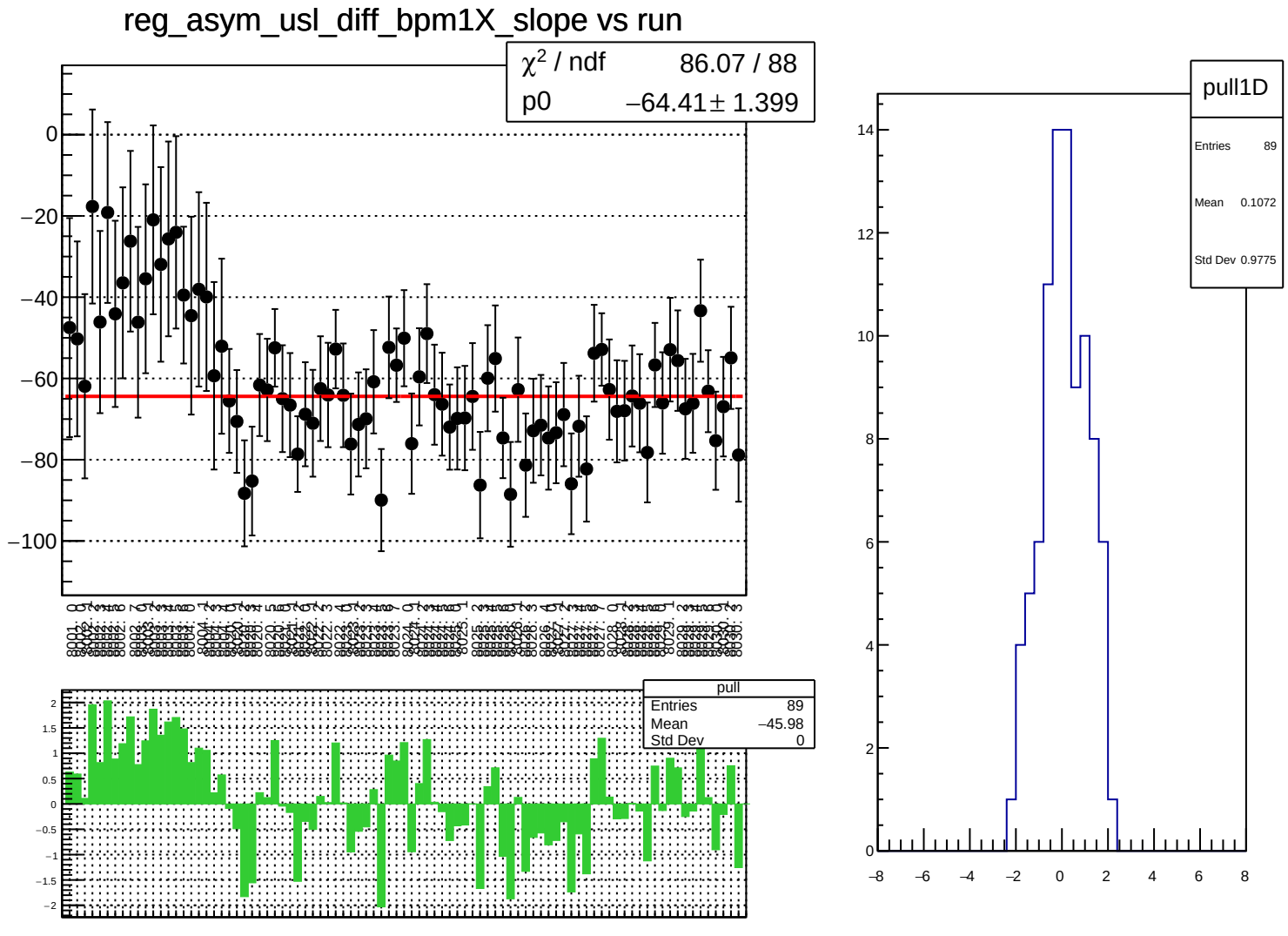

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 28.93 / 88
p0 −37.2 ± 0.5645
pull
Entries 89
Mean −50.14
Std Dev 0

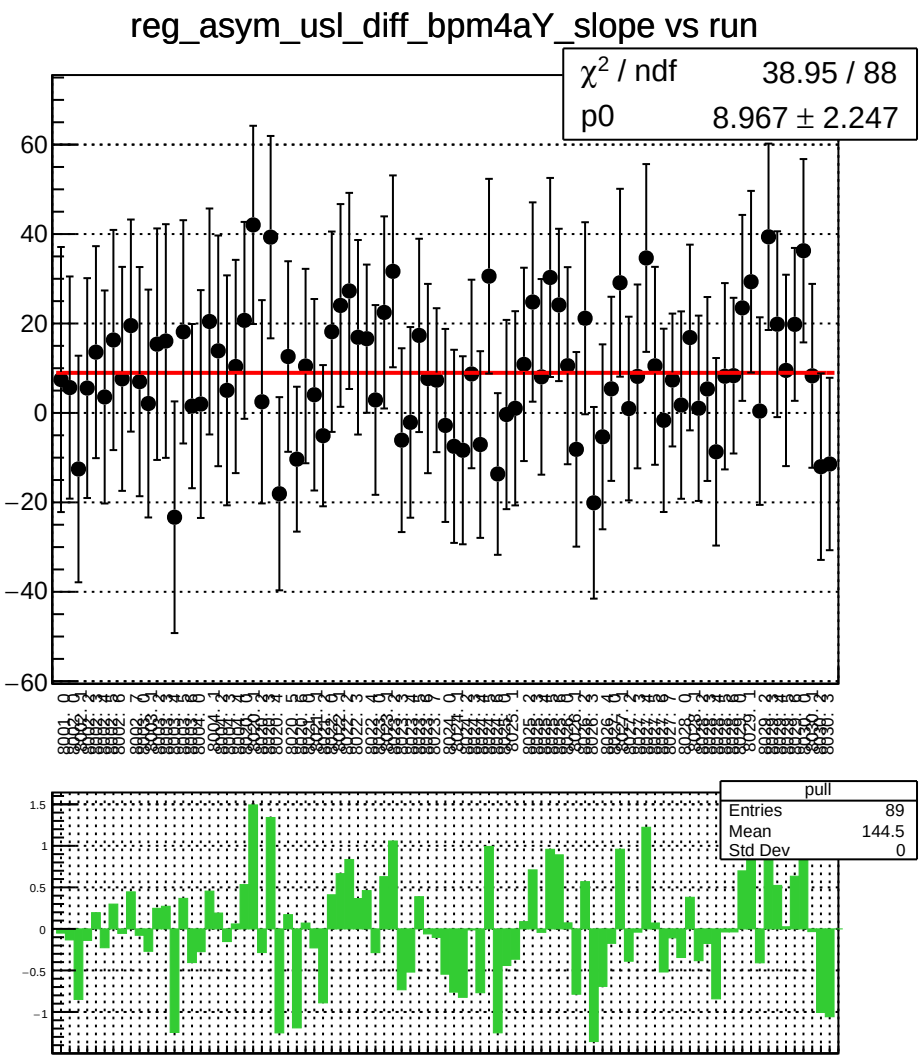

pull1D
Entries 89
Mean 0.1095
Std Dev 0.5595

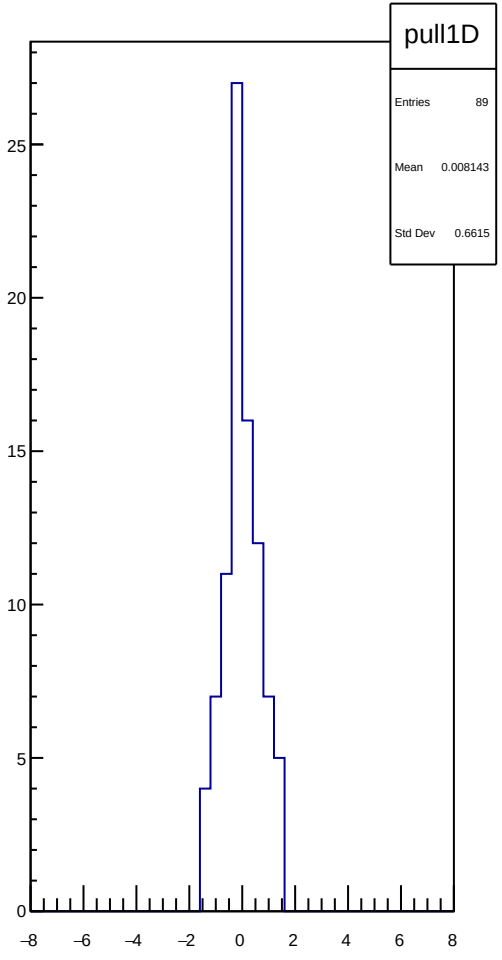

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 8.038 / 88
p0 8.05 ± 0.9285
pull
Entries 89
Mean −205.7
Std Dev 0
pull1D
Entries 89
Mean −0.01559
Std Dev 0.3001

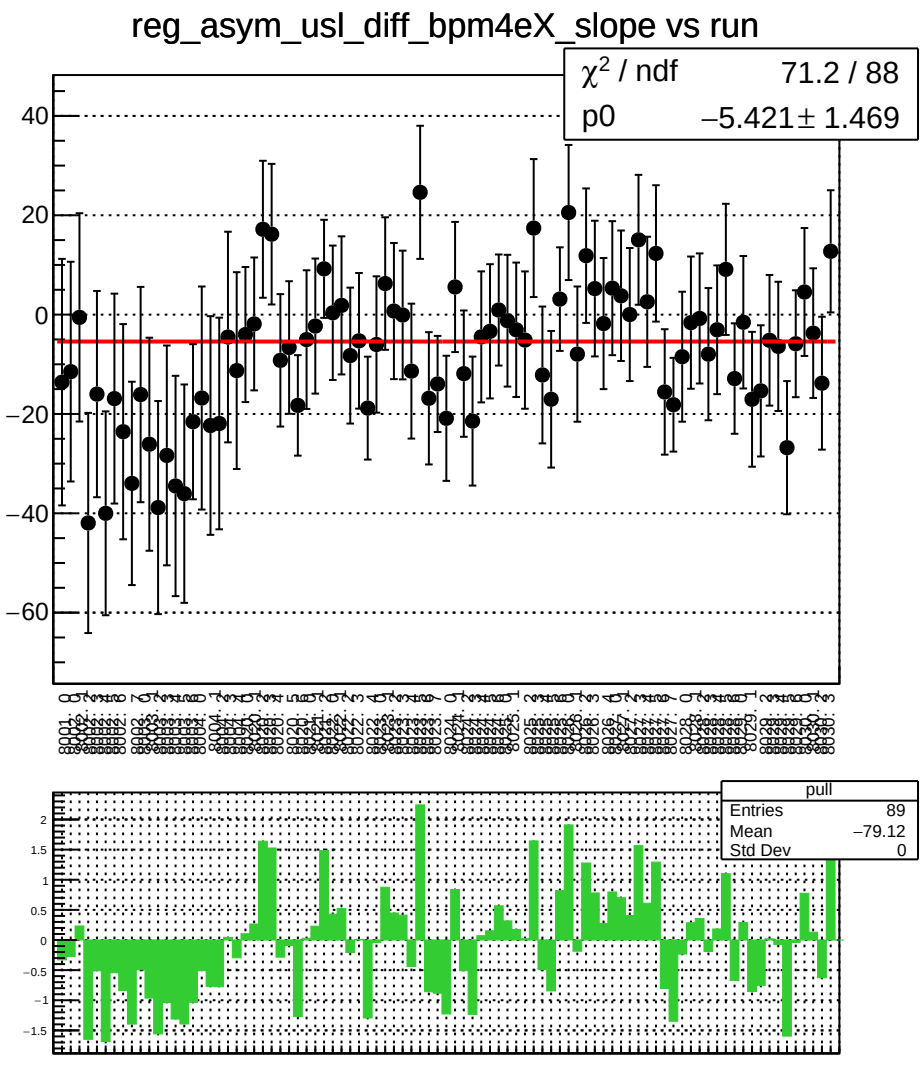

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 458 / 88
p0 0.4219 ± 0.04506
pull
Entries 89
Mean 144.9
Std Dev 0

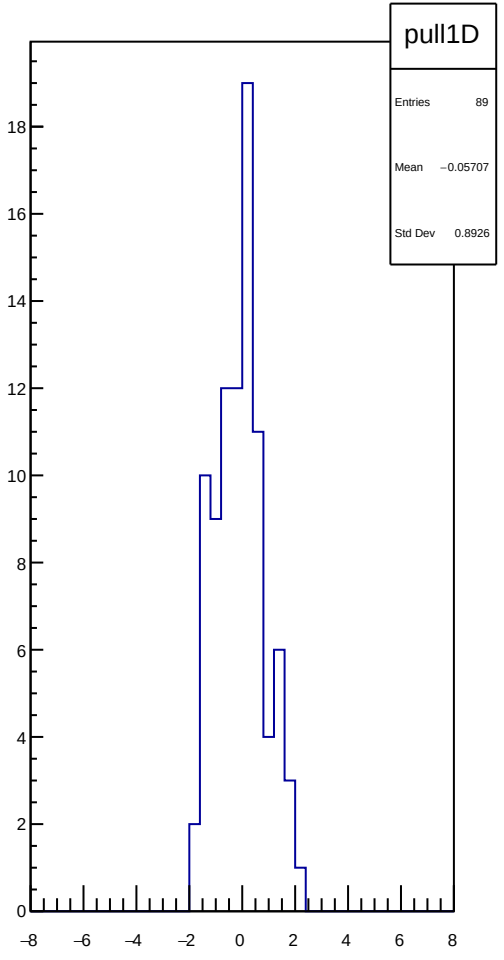

pull1D
Entries 89
Mean 0.4129
Std Dev 2.231

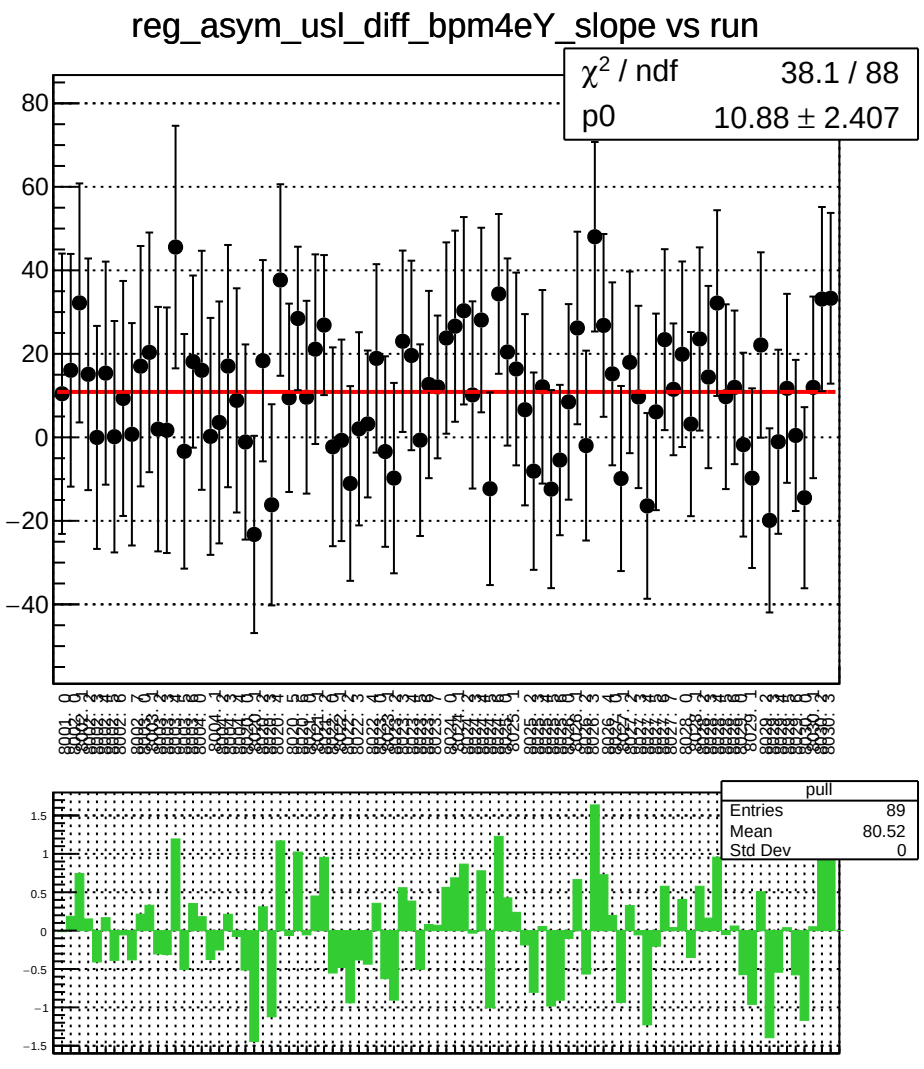

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 86.07 / 88
p0 −64.41 ± 1.399
0
−20
−40
−60
−80
−100
pull
Entries 89
Mean −45.98
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean 0.1072
Std Dev 0.9775
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

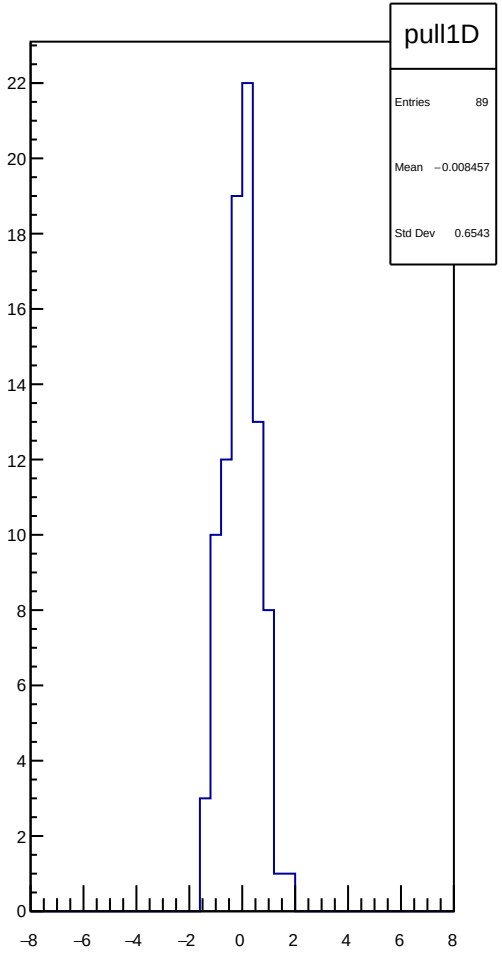

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 38.95 / 88
p0 8.967 ± 2.247
pull
Entries 89
Mean 144.5
Std Dev 0

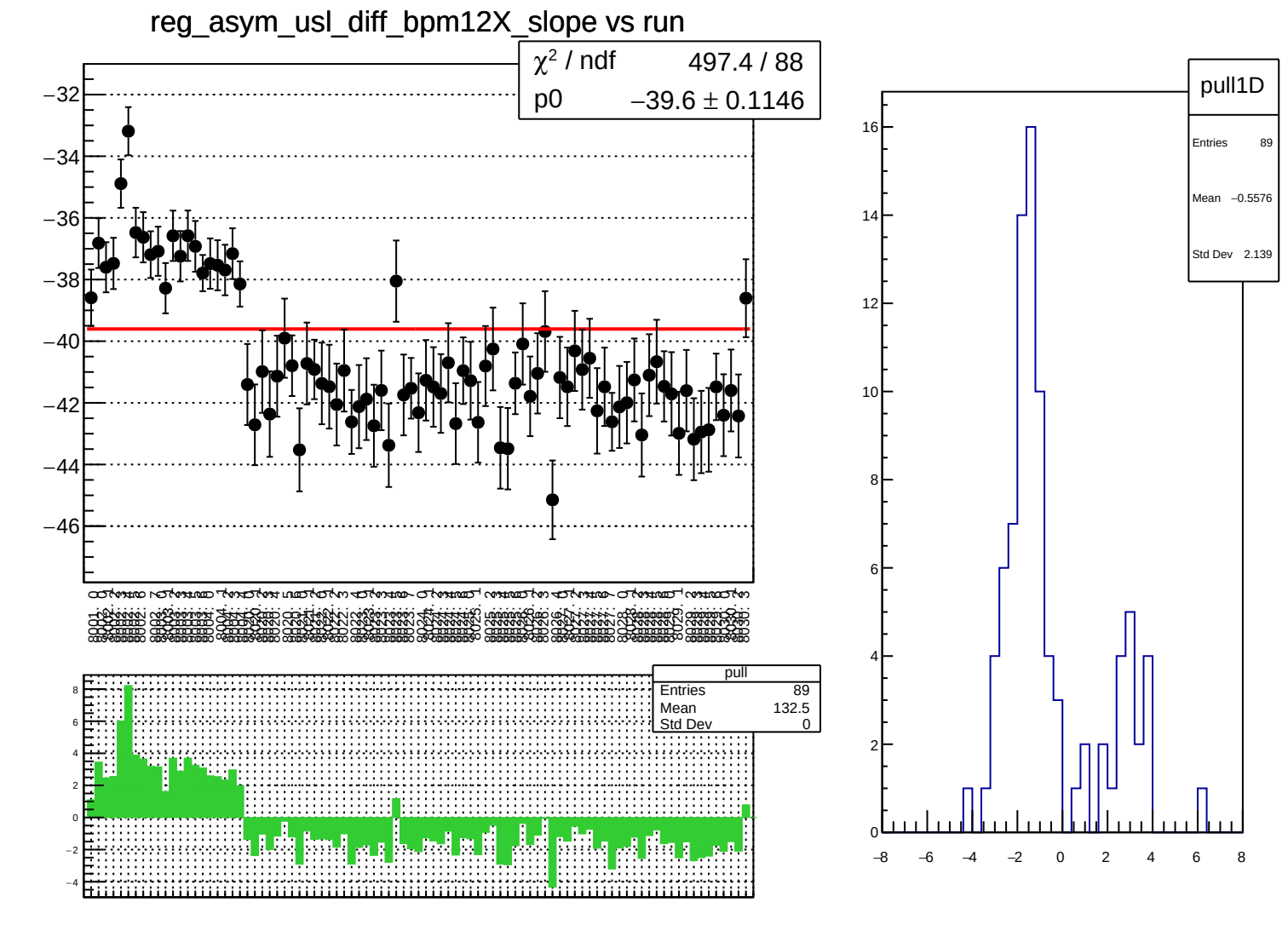

pull1D
Entries 89
Mean 0.008143
Std Dev 0.6615

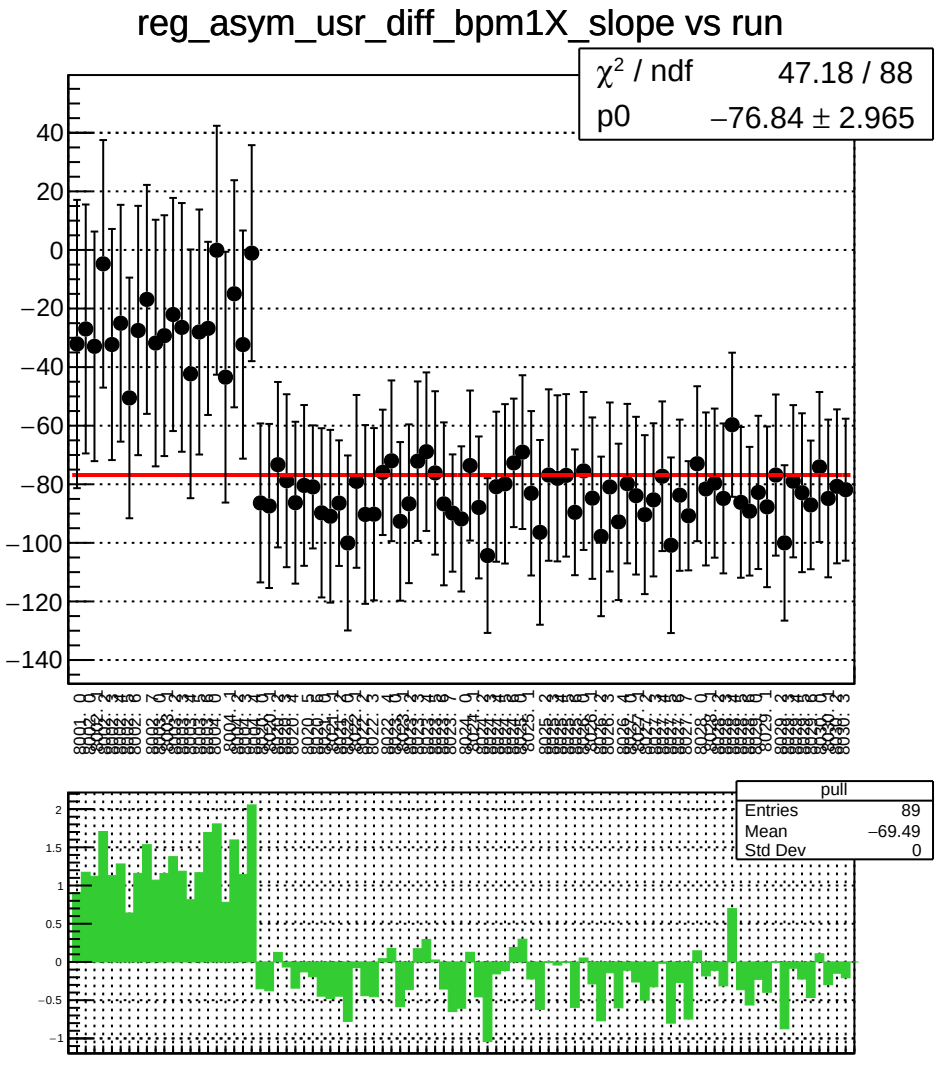

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 71.2 / 88
p0 −5.421 ± 1.469
pull
Entries 89
Mean −79.12
Std Dev 0

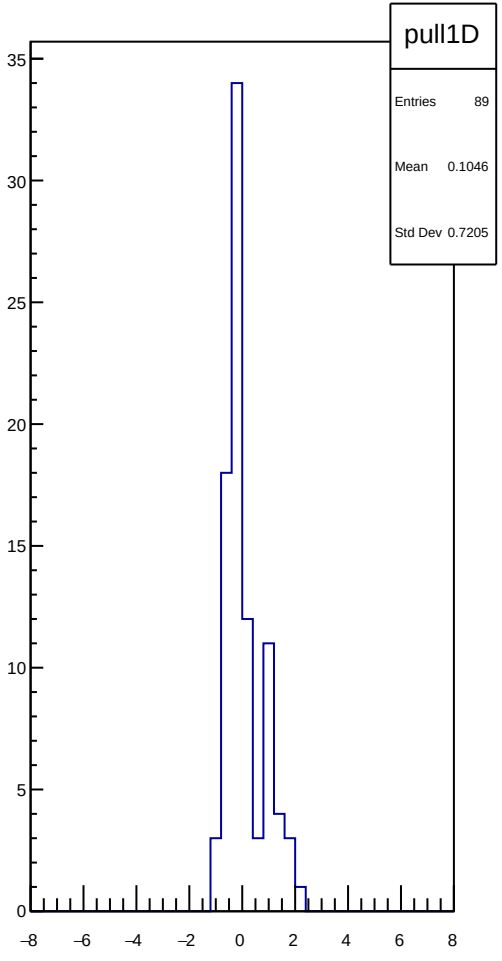

pull1D
Entries 89
Mean −0.05707
Std Dev 0.8926

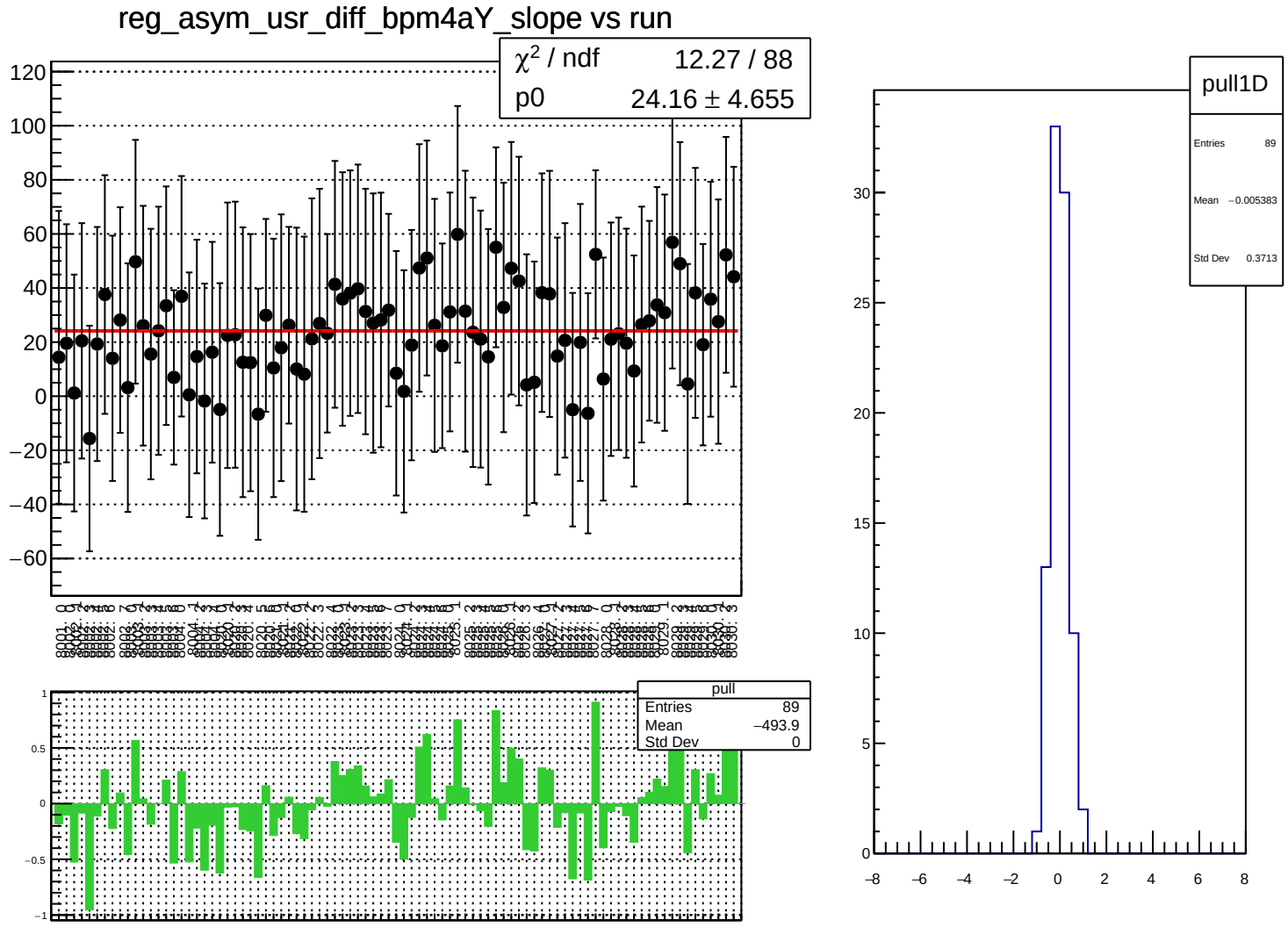

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 38.1 / 88
p0 10.88 ± 2.407
pull
Entries 89
Mean 80.52
Std Dev 0

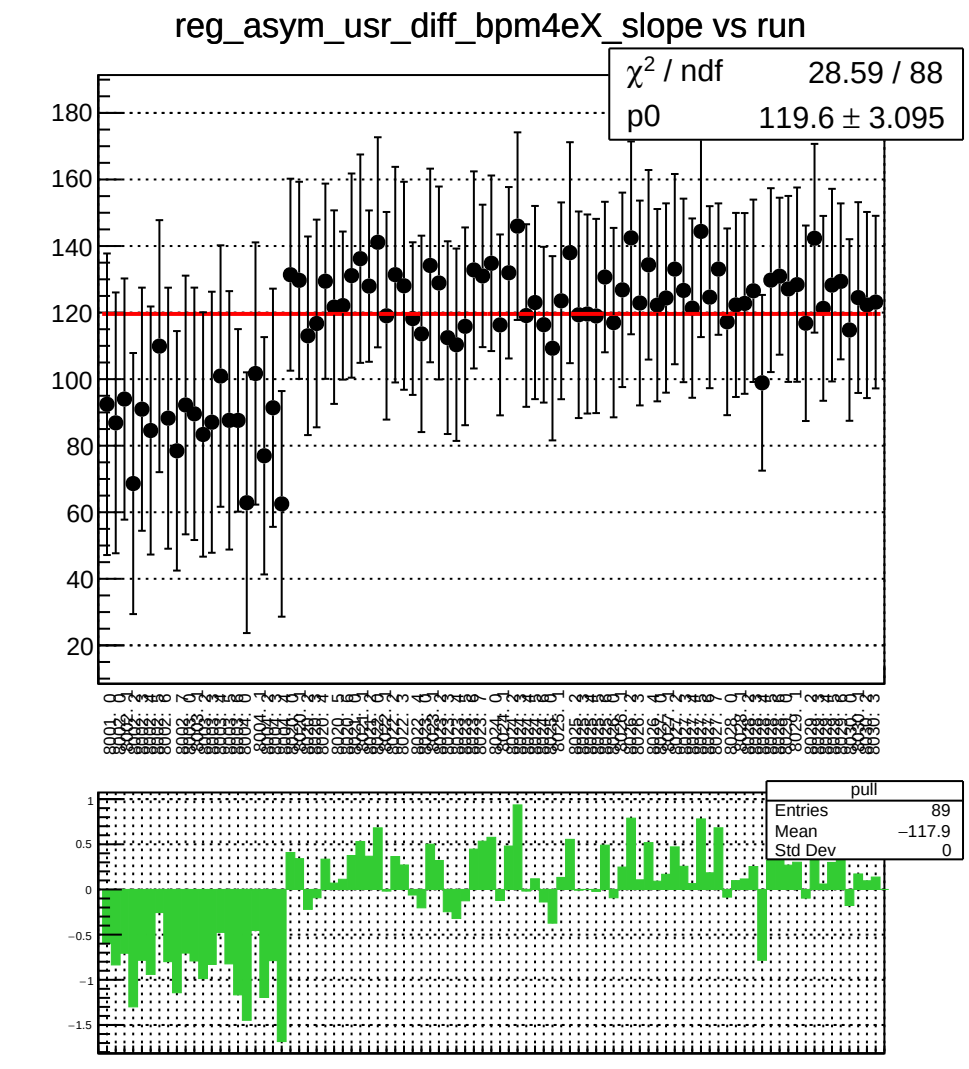

pull1D
Entries 89
Mean −0.008457
Std Dev 0.6543

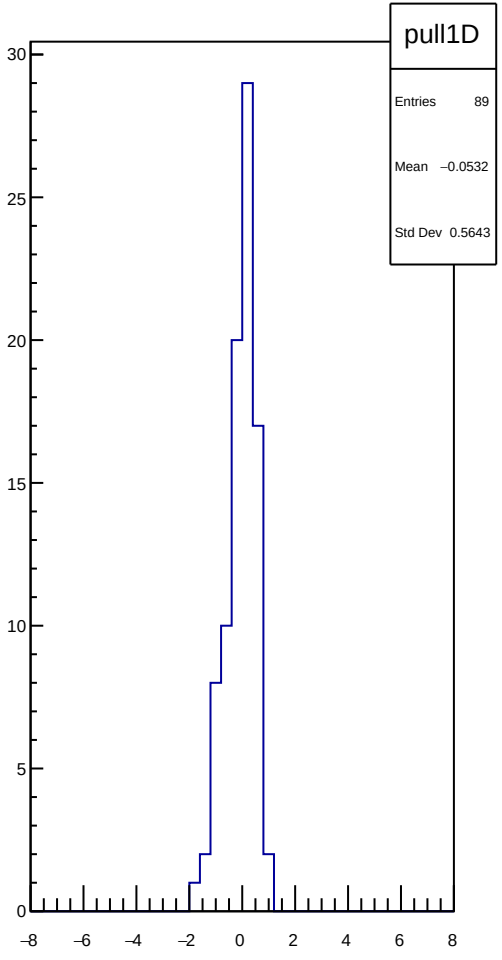

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 497.4 / 88
p0 −39.6 ± 0.1146
pull
Entries 89
Mean 132.5
Std Dev 0
pull1D
Entries 89
Mean −0.5576
Std Dev 2.139

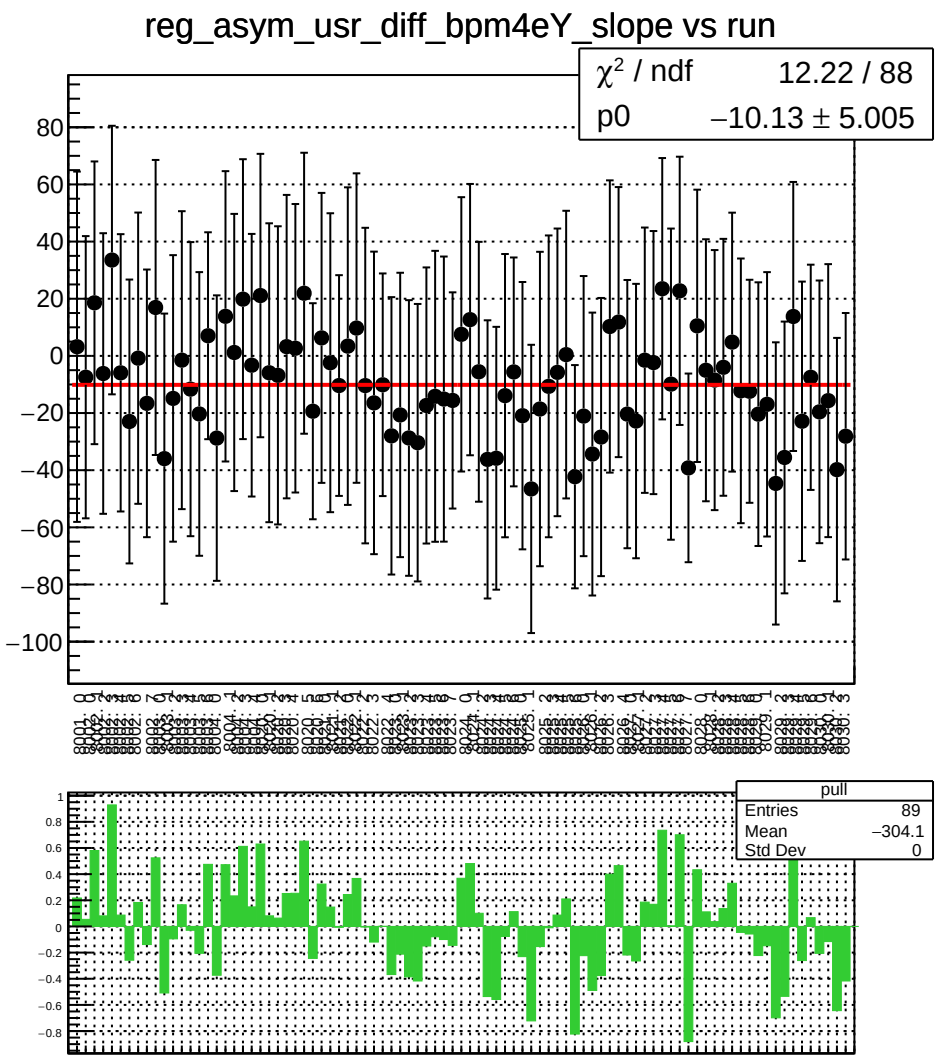

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 47.18 / 88
p0 −76.84 ± 2.965
pull
Entries 89
Mean −69.49
Std Dev 0

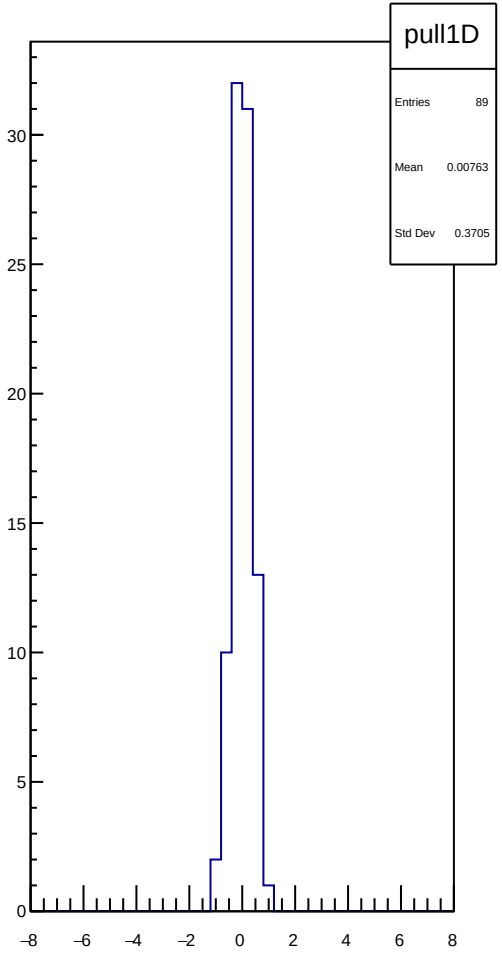

pull1D
Entries 89
Mean 0.1046
Std Dev 0.7205

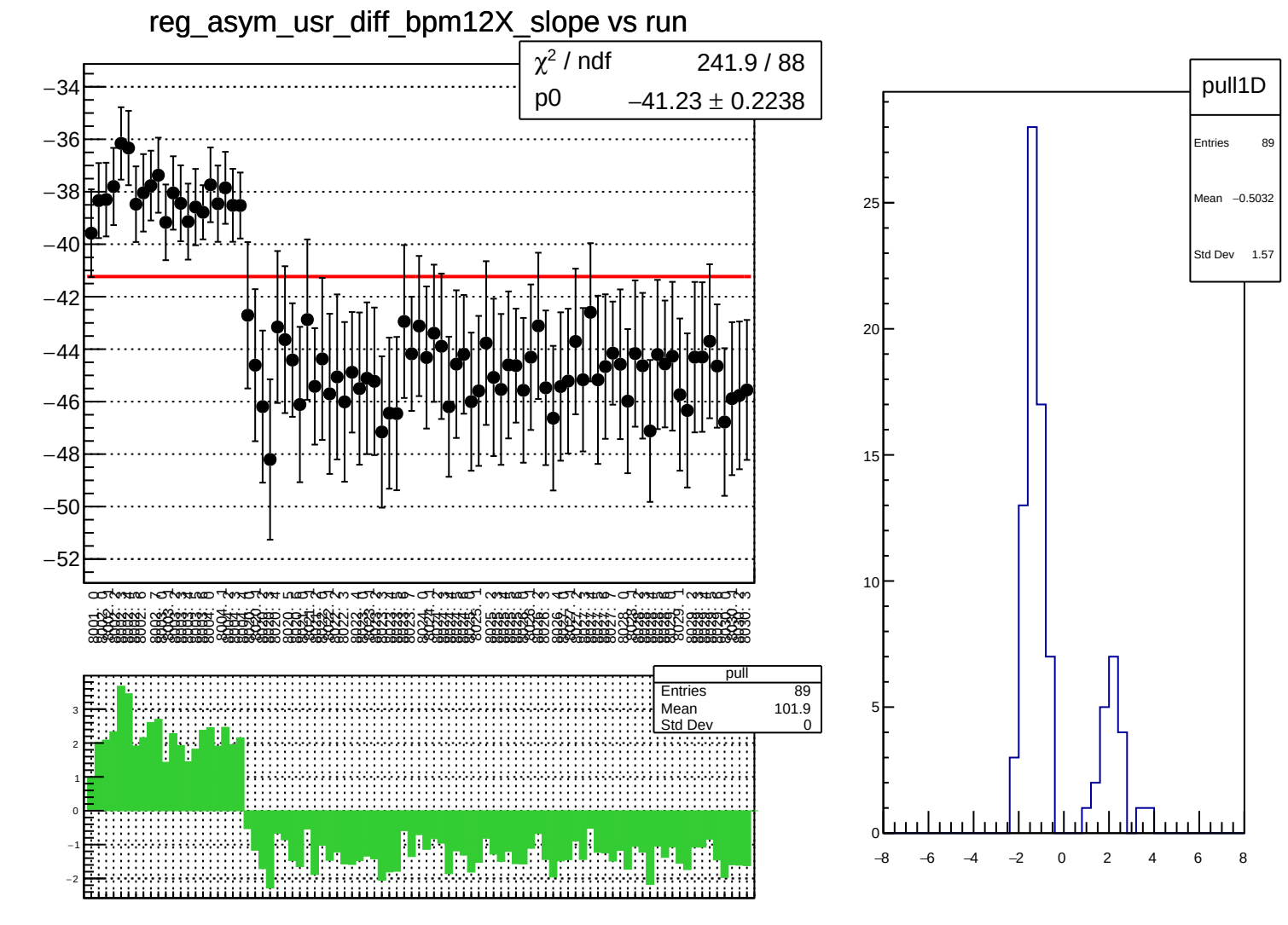

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 12.27 / 88
p0 24.16 ± 4.655
pull
Entries 89
Mean −493.9
Std Dev 0
pull1D
Entries 89
Mean −0.005383
Std Dev 0.3713

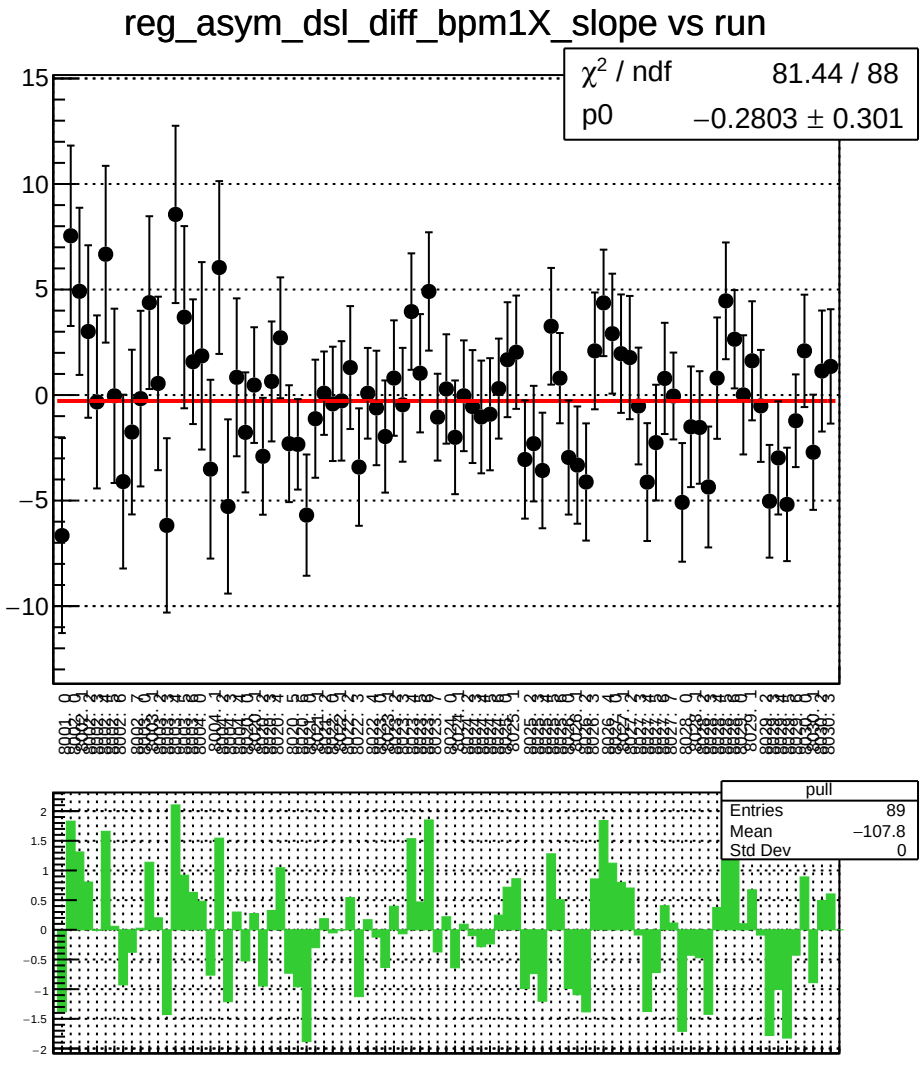

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 28.59 / 88
p0 119.6 ± 3.095
pull
Entries 89
Mean −117.9
Std Dev 0

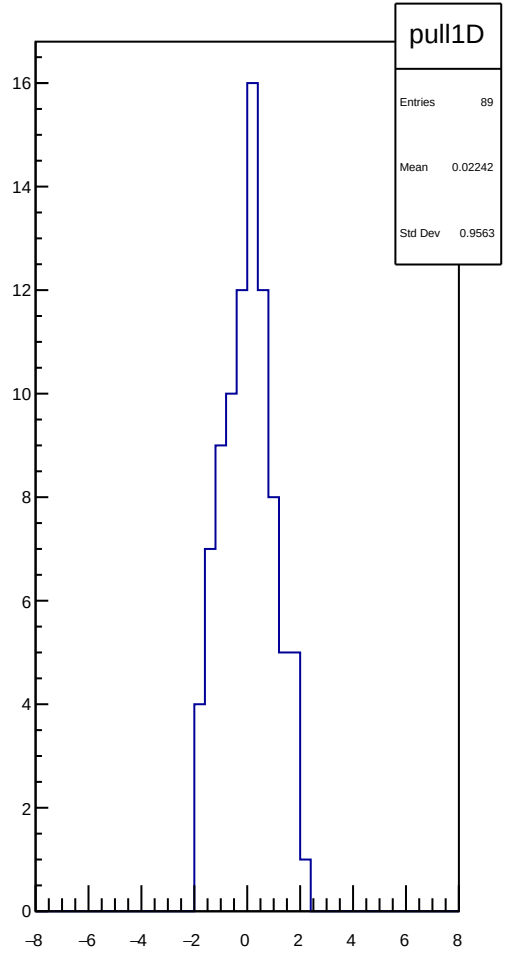

pull1D
Entries 89
Mean −0.0532
Std Dev 0.5643

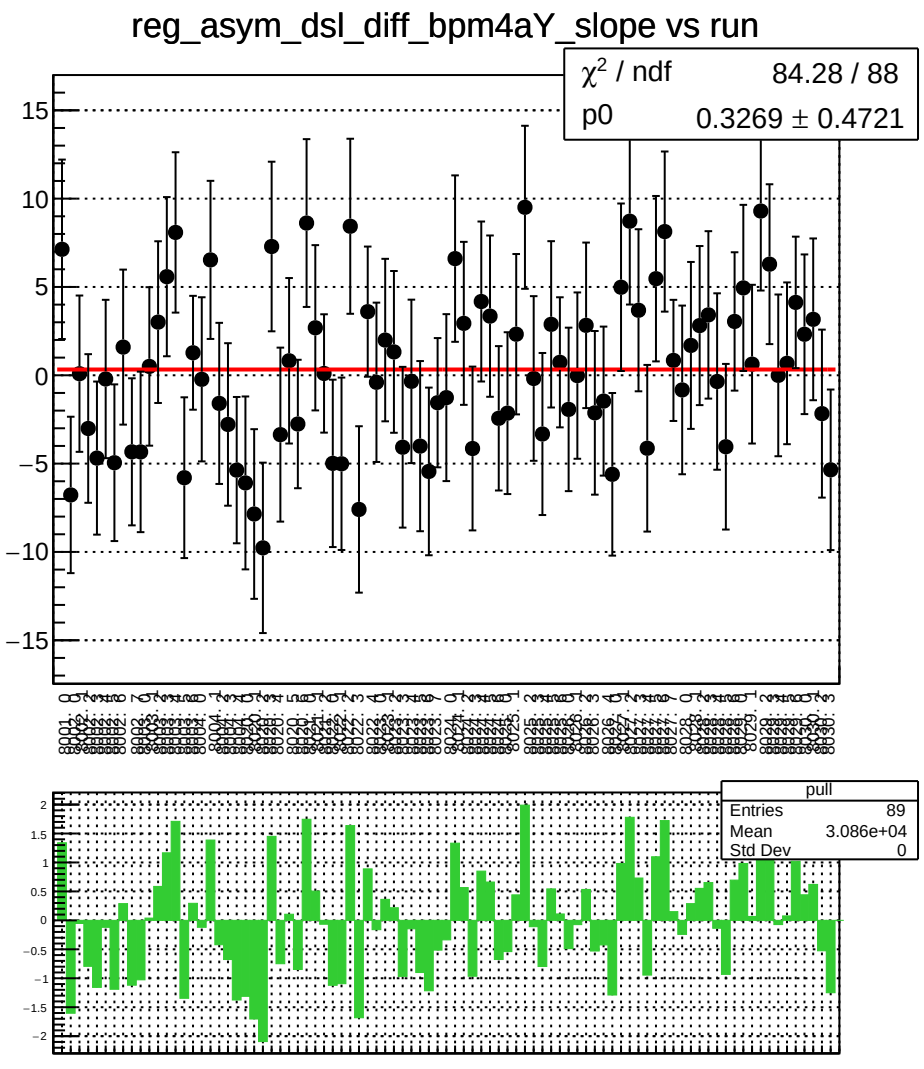

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 12.22 / 88
p0 −10.13 ± 5.005
pull
Entries 89
Mean −304.1
Std Dev 0

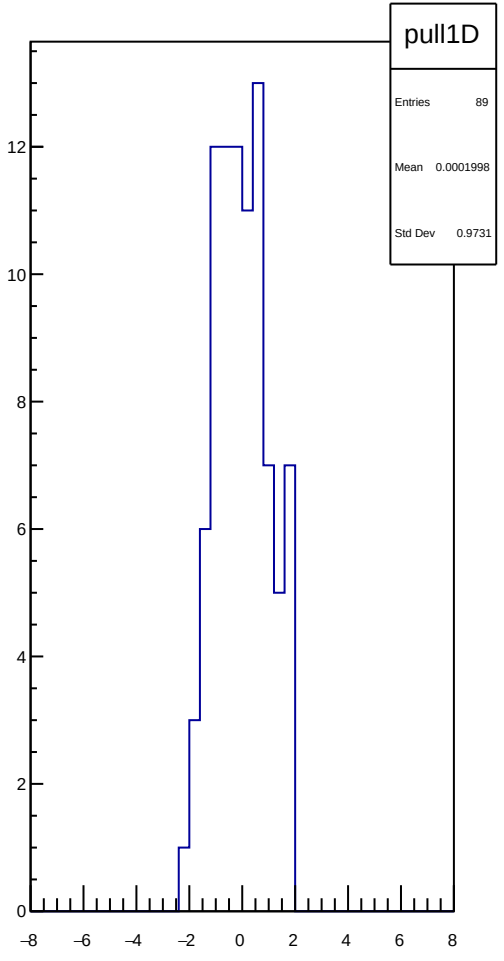

pull1D
Entries 89
Mean 0.00763
Std Dev 0.3705

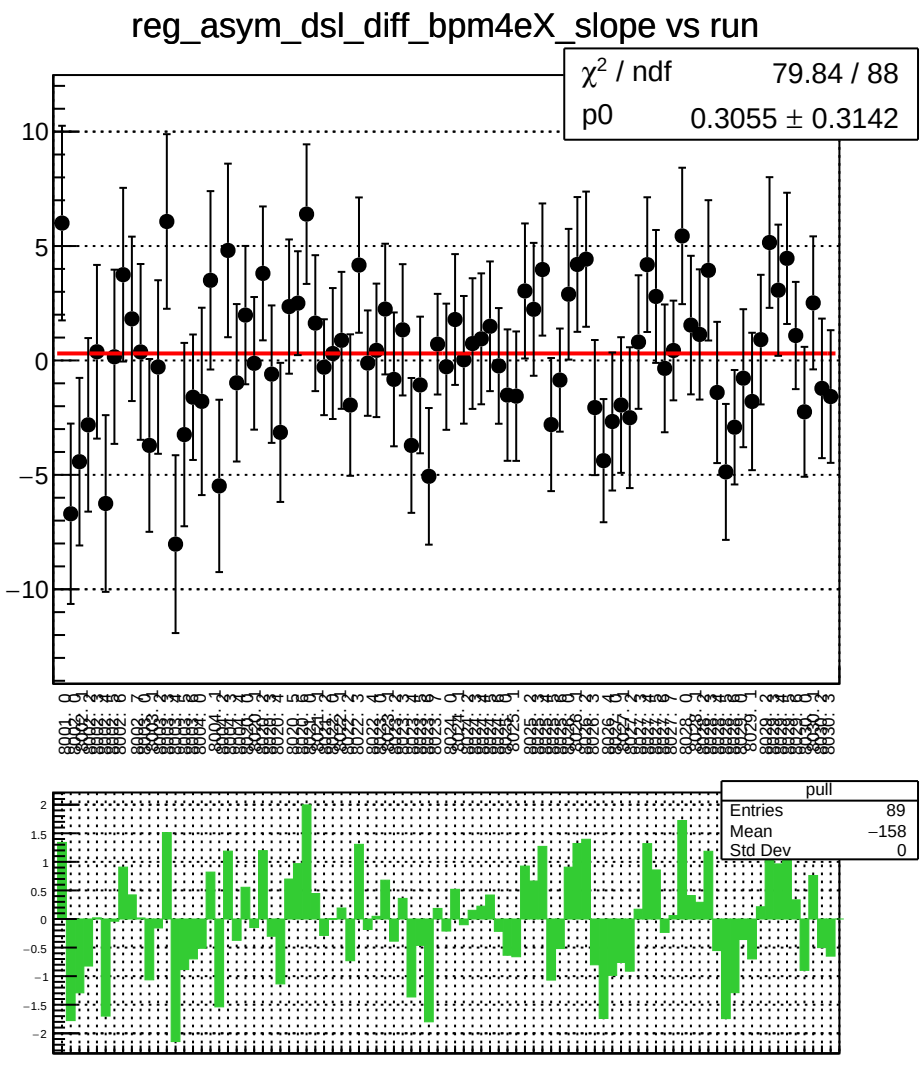

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 241.9 / 88
p0 −41.23 ± 0.2238
pull
Entries 89
Mean 101.9
Std Dev 0
pull1D
Entries 89
Mean −0.5032
Std Dev 1.57

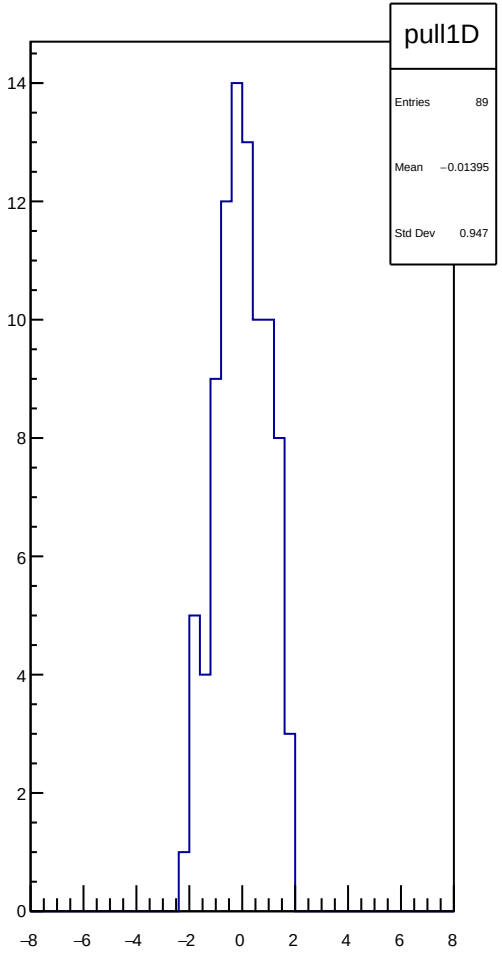

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 81.44 / 88
p0 −0.2803 ± 0.301
pull
Entries 89
Mean −107.8
Std Dev 0

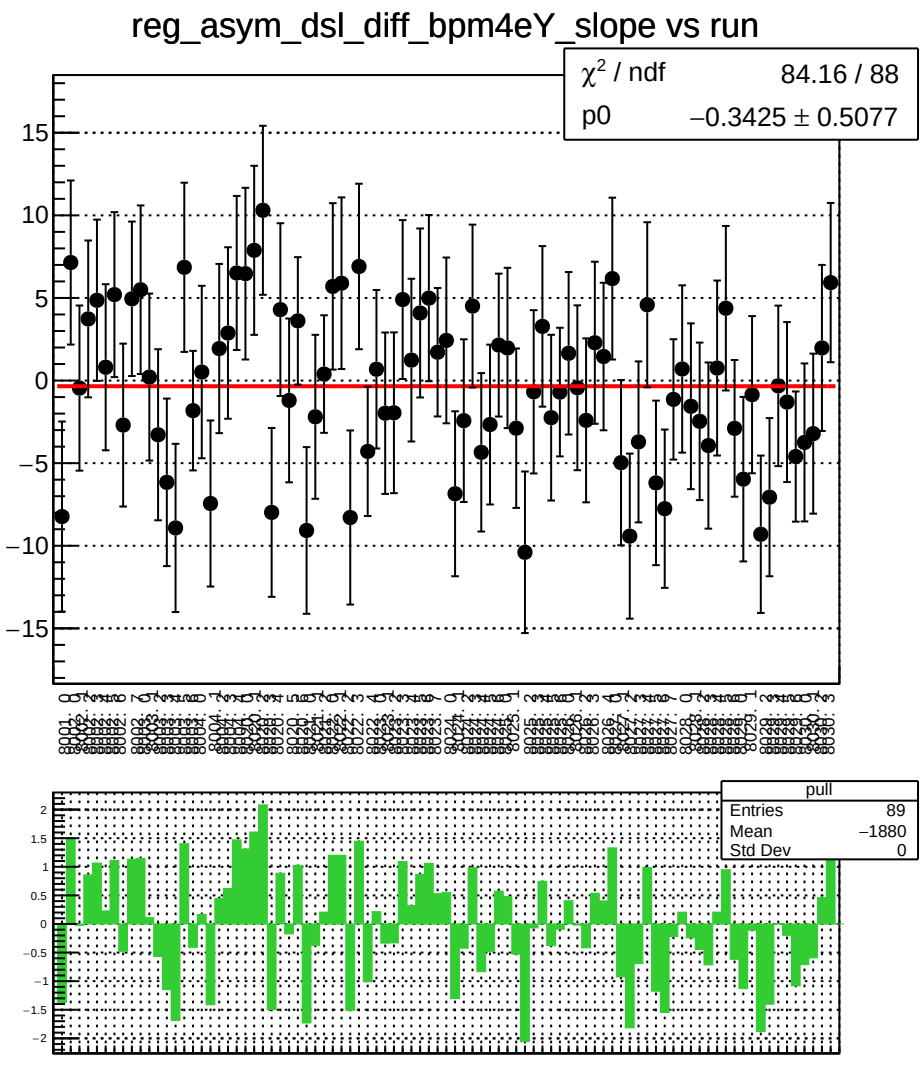

pull1D
Entries 89
Mean 0.02242
Std Dev 0.9563

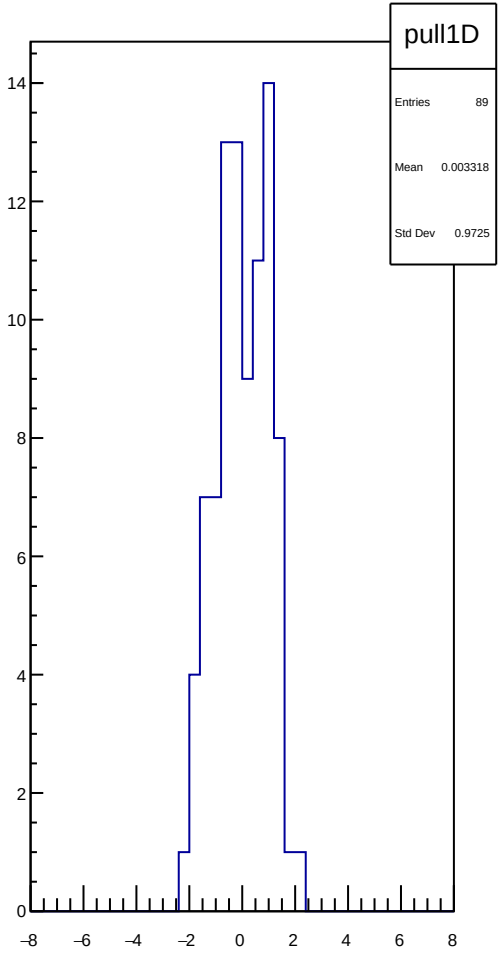

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 84.28 / 88
p0 0.3269 ± 0.4721
pull
Entries 89
Mean 3.086e+04
Std Dev 0

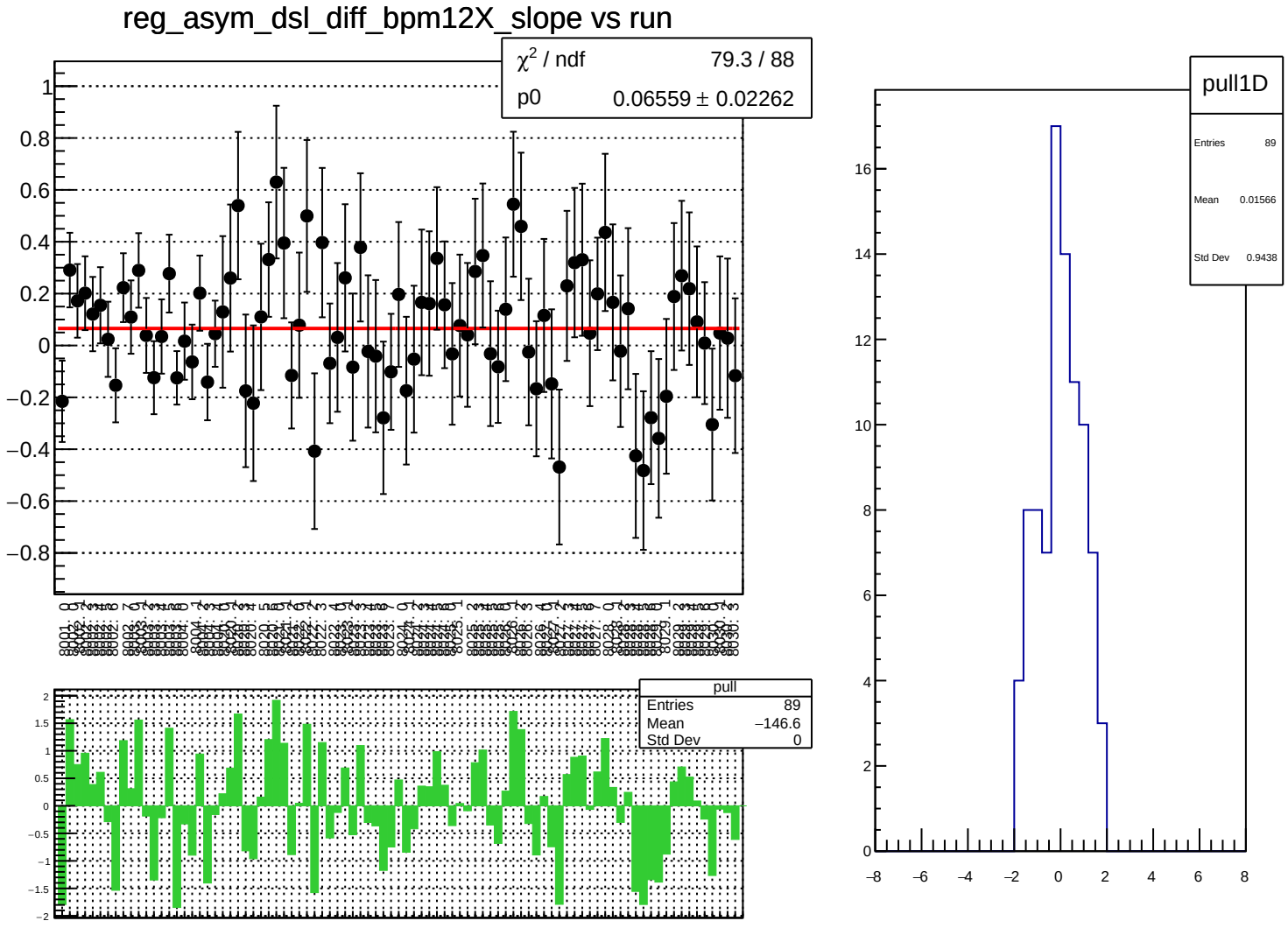

pull1D
Entries 89
Mean 0.0001998
Std Dev 0.9731

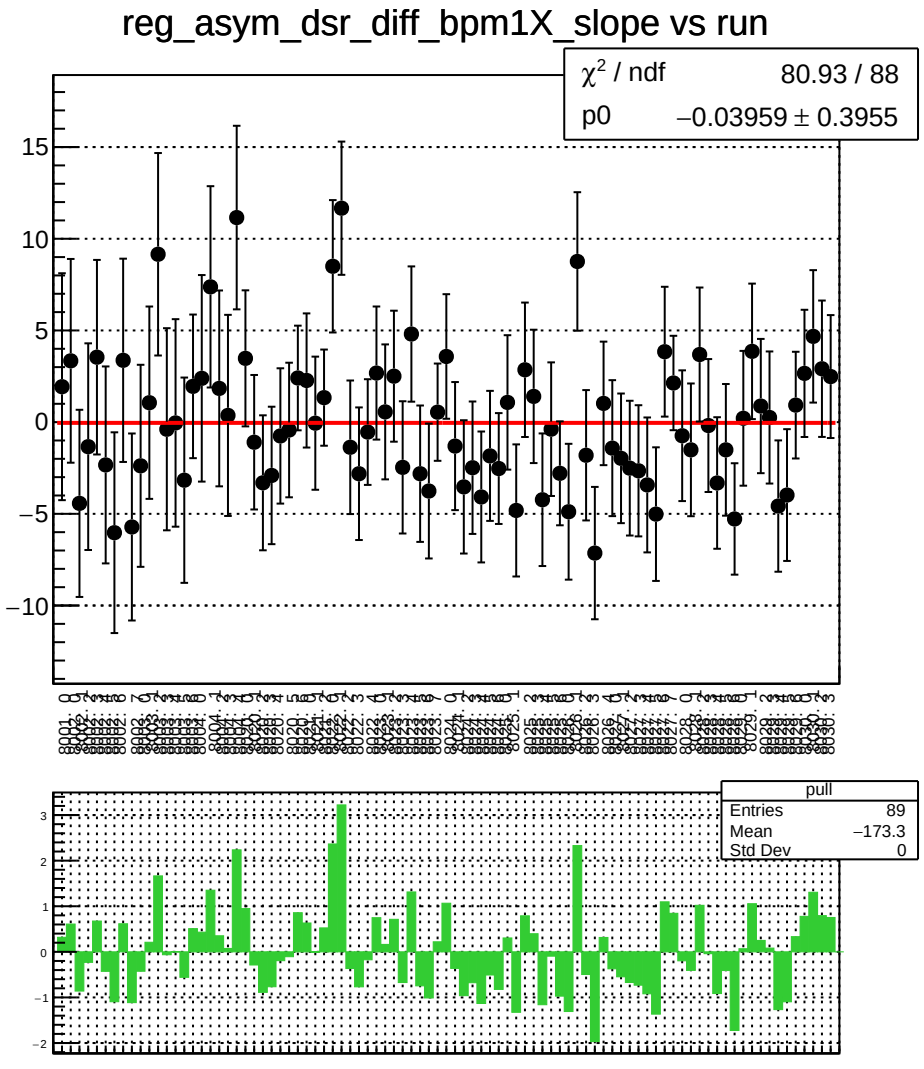

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 79.84 / 88
p0 0.3055 ± 0.3142
pull
Entries 89
Mean −158
Std Dev 0

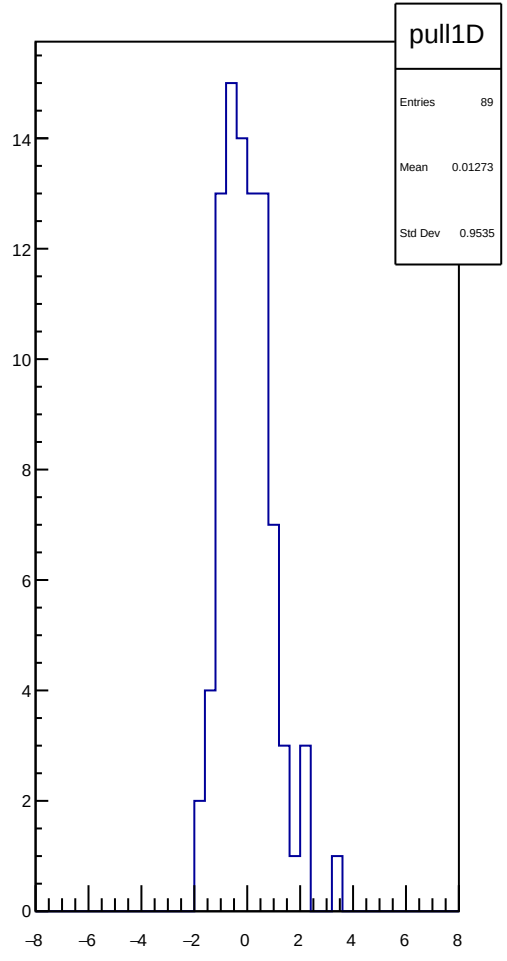

pull1D
Entries 89
Mean −0.01395
Std Dev 0.947

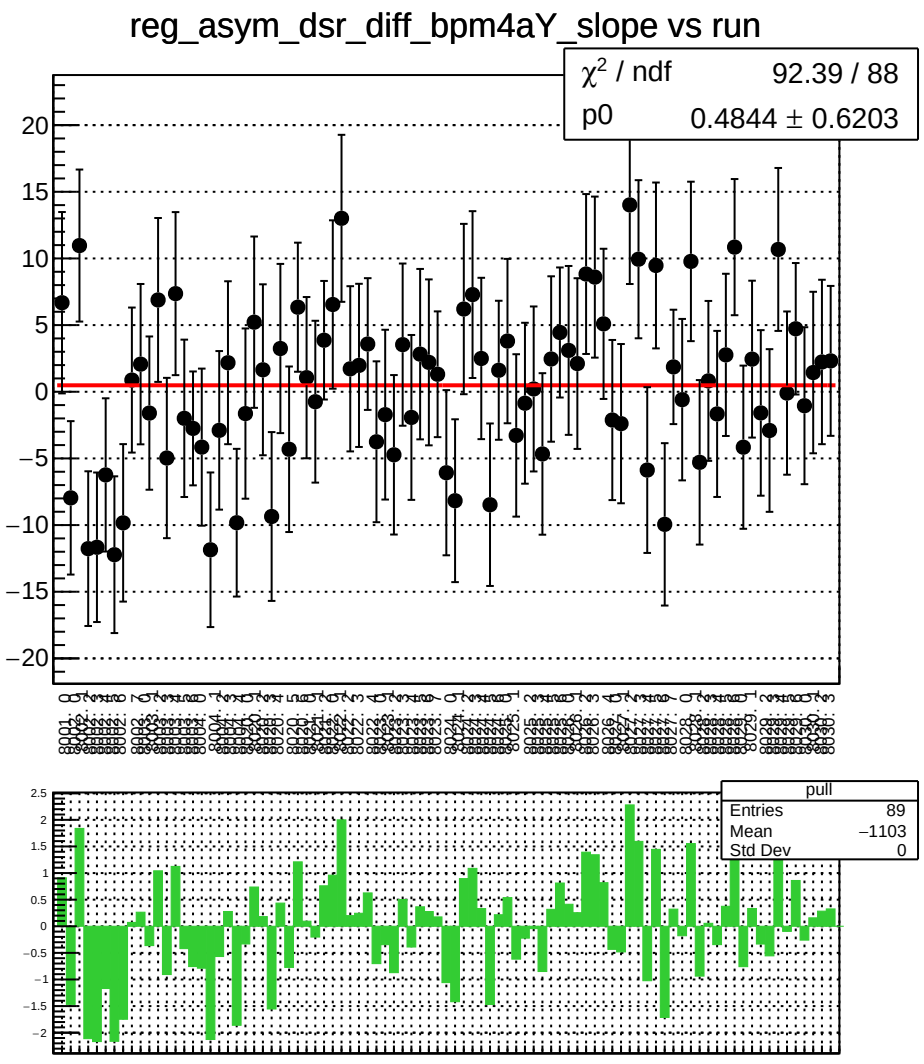

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 84.16 / 88
p0 −0.3425 ± 0.5077
pull
Entries 89
Mean −1880
Std Dev 0

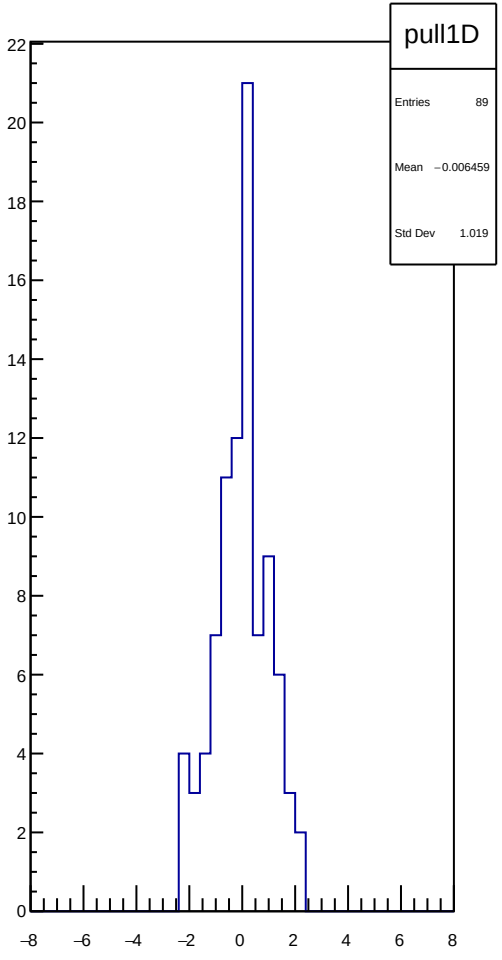

pull1D
Entries 89
Mean 0.003318
Std Dev 0.9725

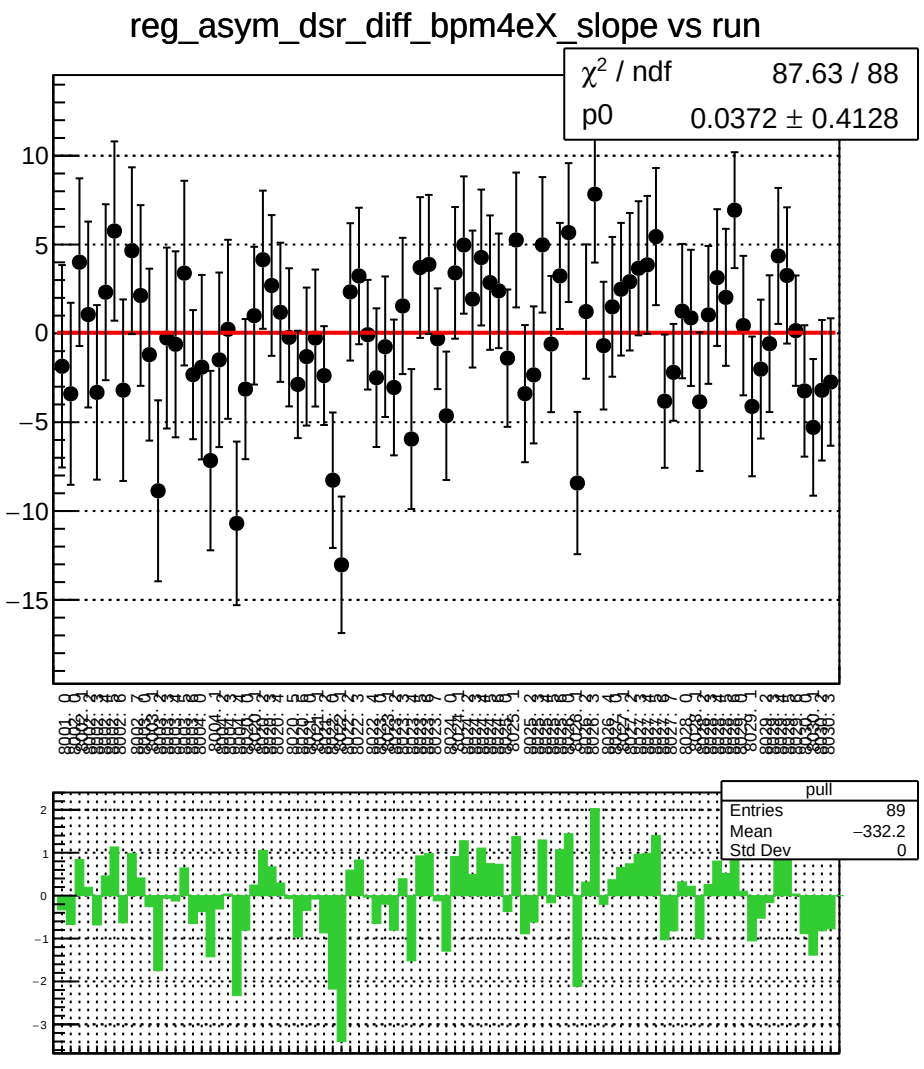

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 79.3 / 88
p0 0.06559 ± 0.02262
pull
Entries 89
Mean −146.6
Std Dev 0
pull1D
Entries 89
Mean 0.01566
Std Dev 0.9438

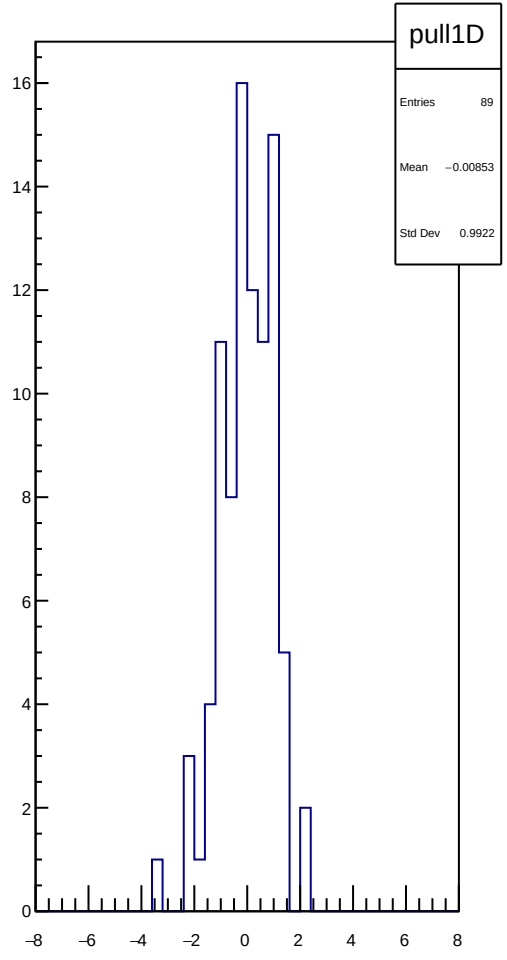

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 80.93 / 88
p0 −0.03959 ± 0.3955
pull
Entries 89
Mean −173.3
Std Dev 0

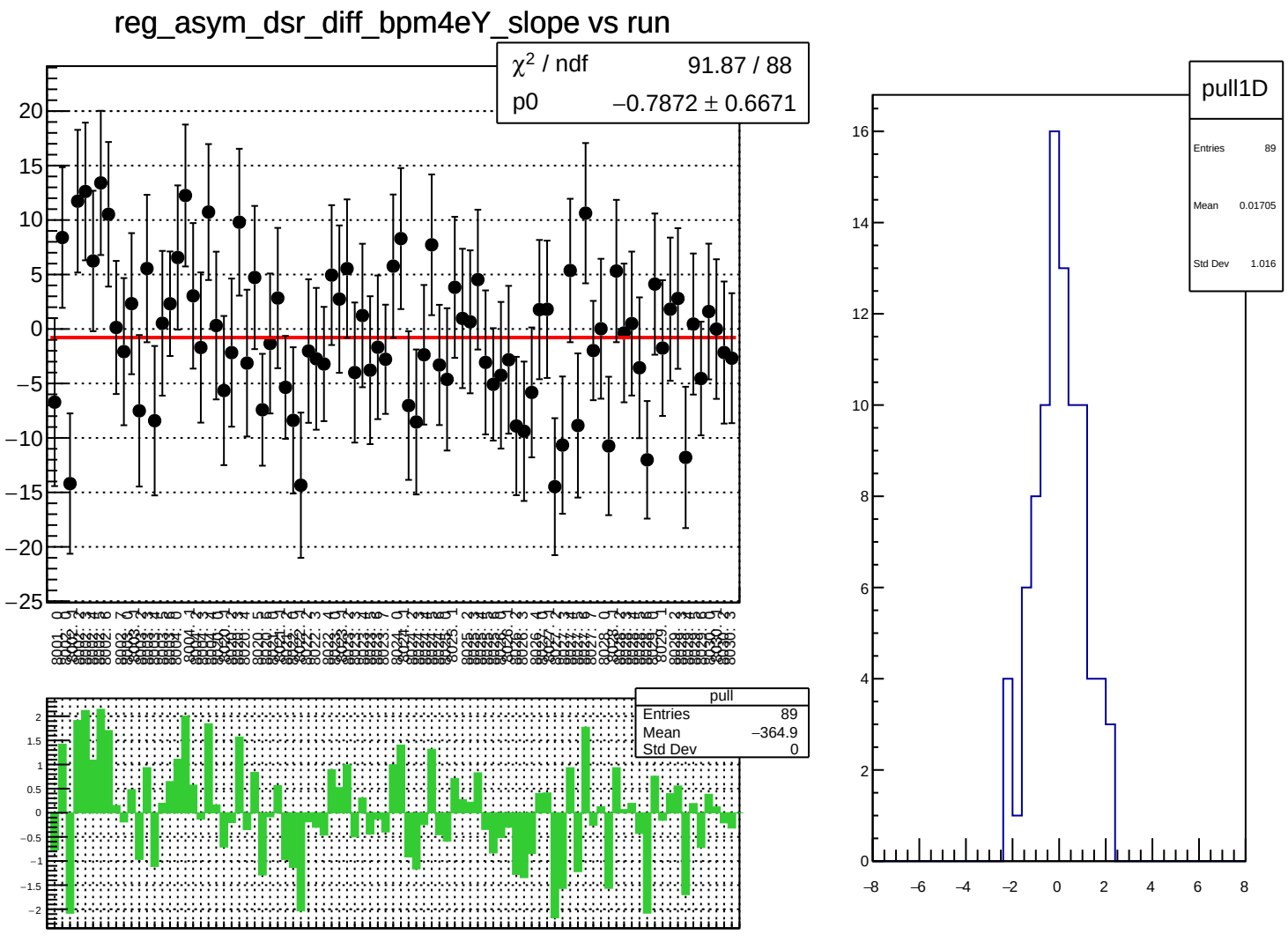

pull1D
Entries 89
Mean 0.01273
Std Dev 0.9535

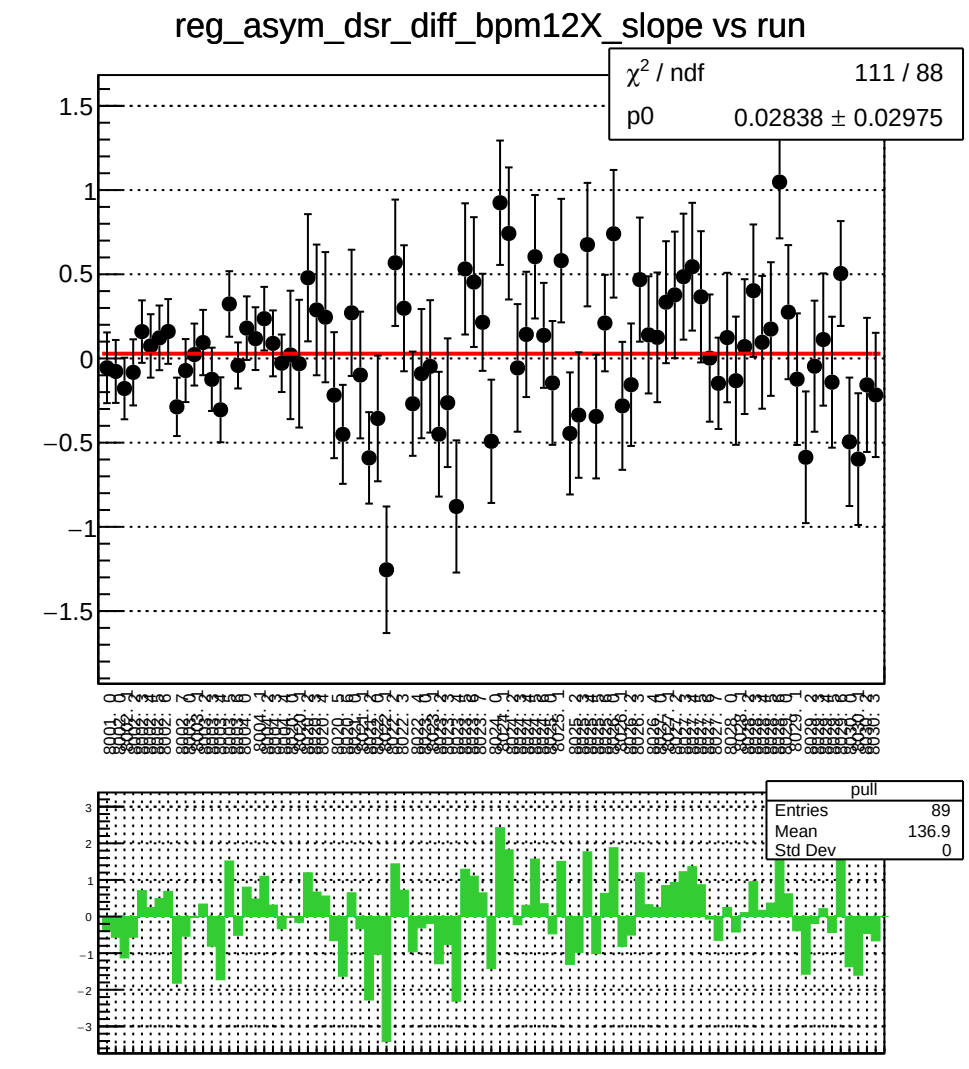

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 92.39 / 88
p0 0.4844 ± 0.6203
pull
Entries 89
Mean −1103
Std Dev 0

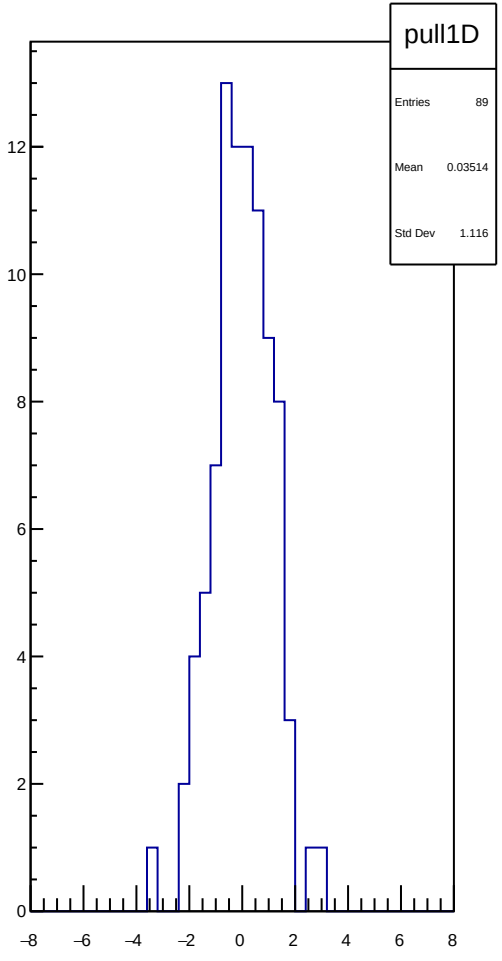

pull1D
Entries 89
Mean −0.006459
Std Dev 1.019

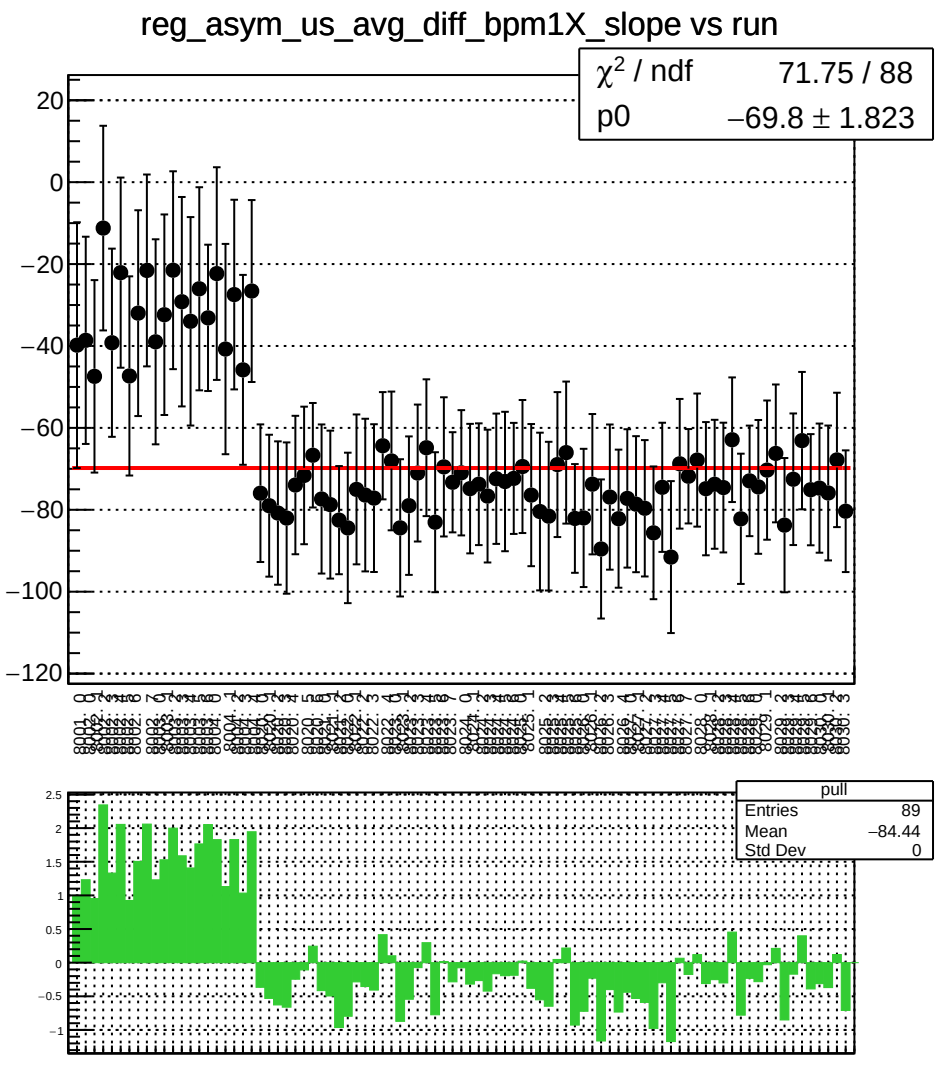

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 87.63 / 88
p0 0.0372 ± 0.4128
pull
Entries 89
Mean −332.2
Std Dev 0

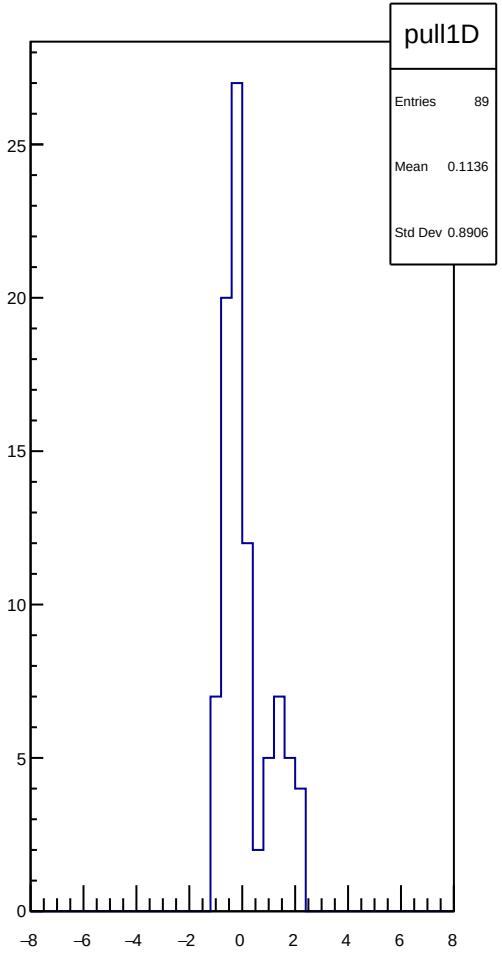

pull1D
Entries 89
Mean −0.00853
Std Dev 0.9922

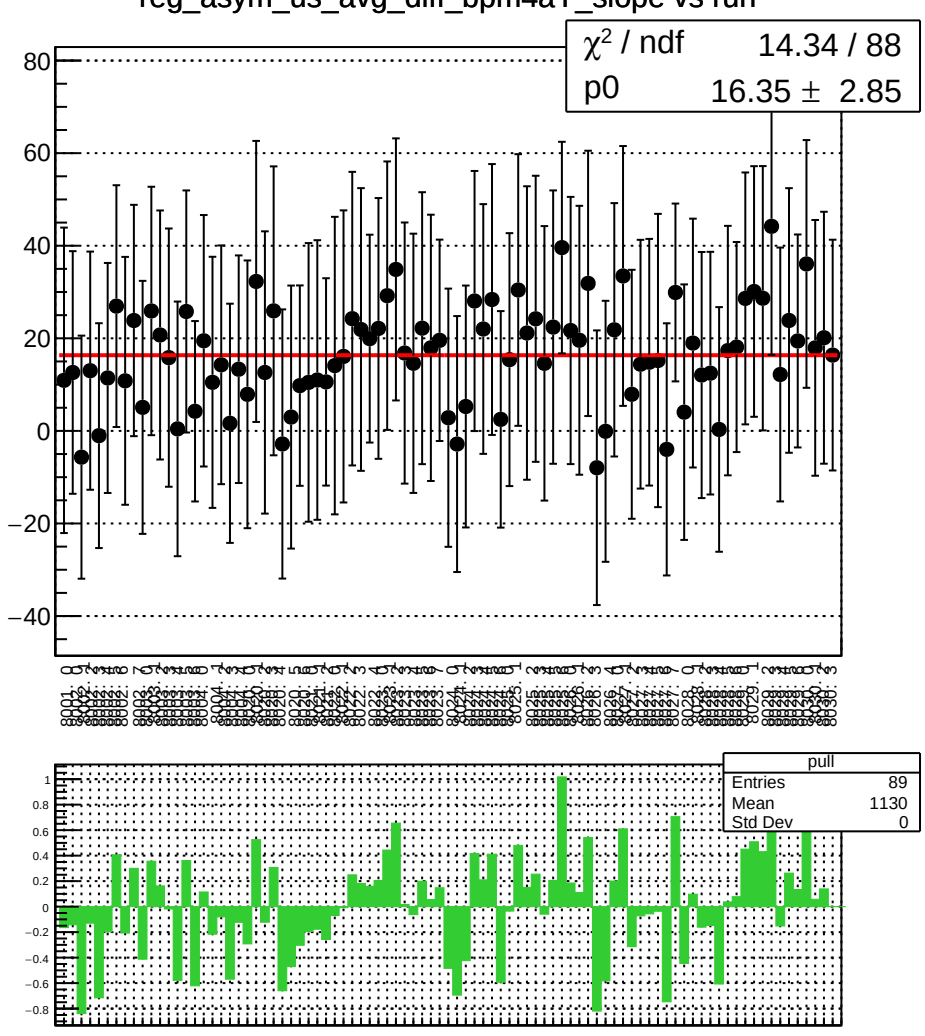

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 91.87 / 88
p0 −0.7872 ± 0.6671
pull
Entries 89
Mean −364.9
Std Dev 0
pull1D
Entries 89
Mean 0.01705
Std Dev 1.016

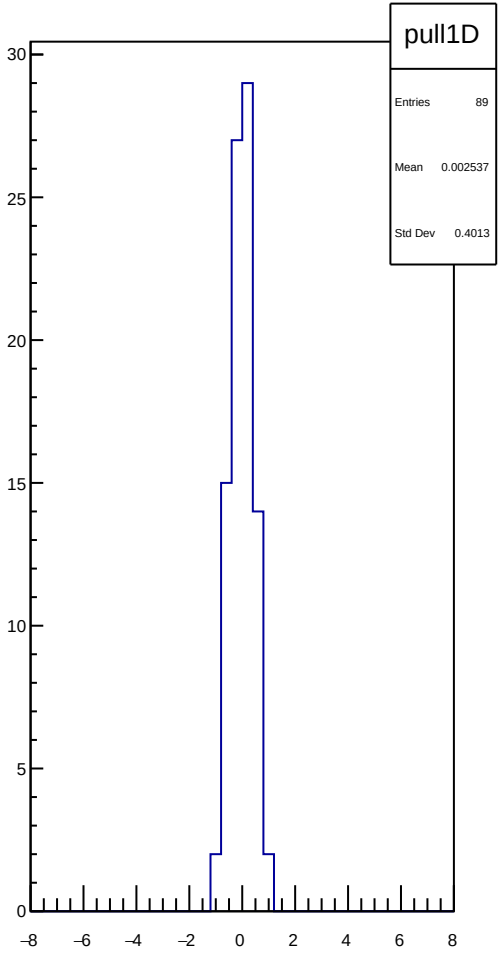

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 111 / 88
p0 0.02838 ± 0.02975
pull
Entries 89
Mean 136.9
Std Dev 0

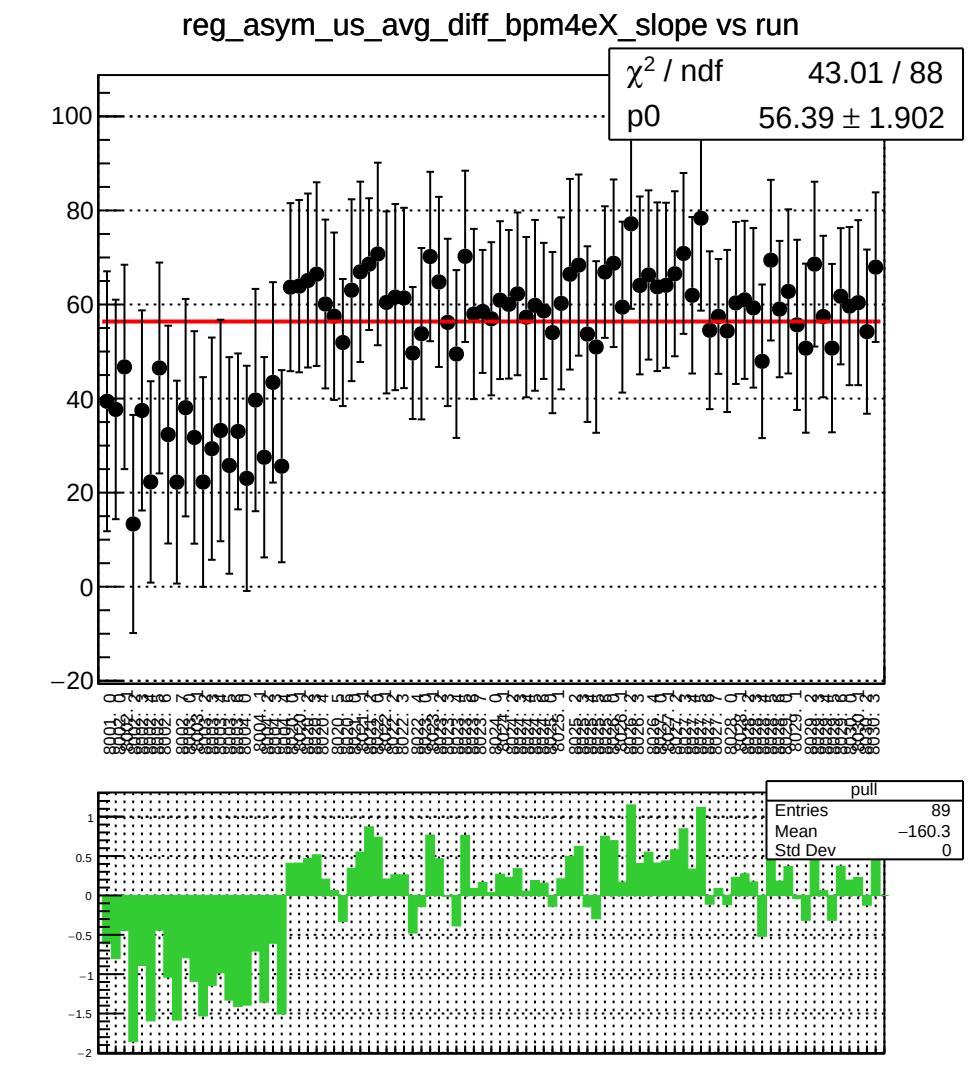

pull1D
Entries 89
Mean 0.03514
Std Dev 1.116

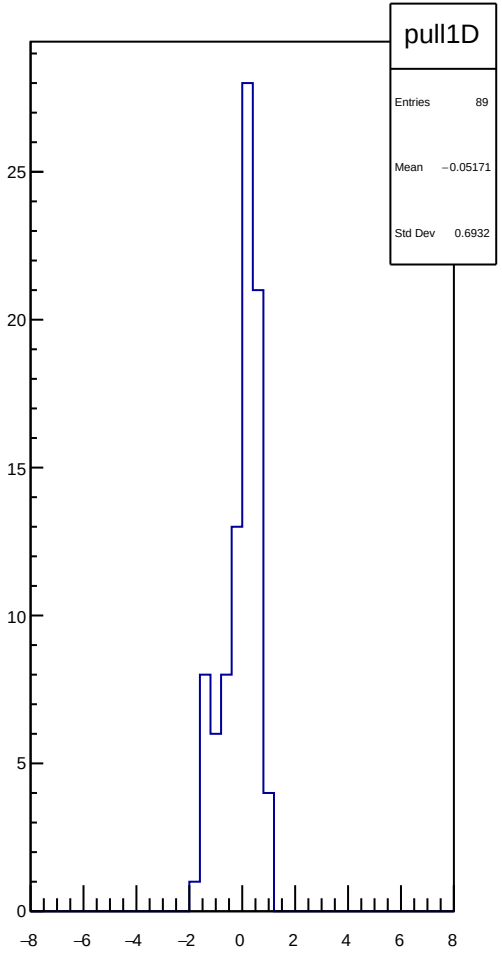

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 71.75 / 88
p0 −69.8 ± 1.823
pull
Entries 89
Mean −84.44
Std Dev 0

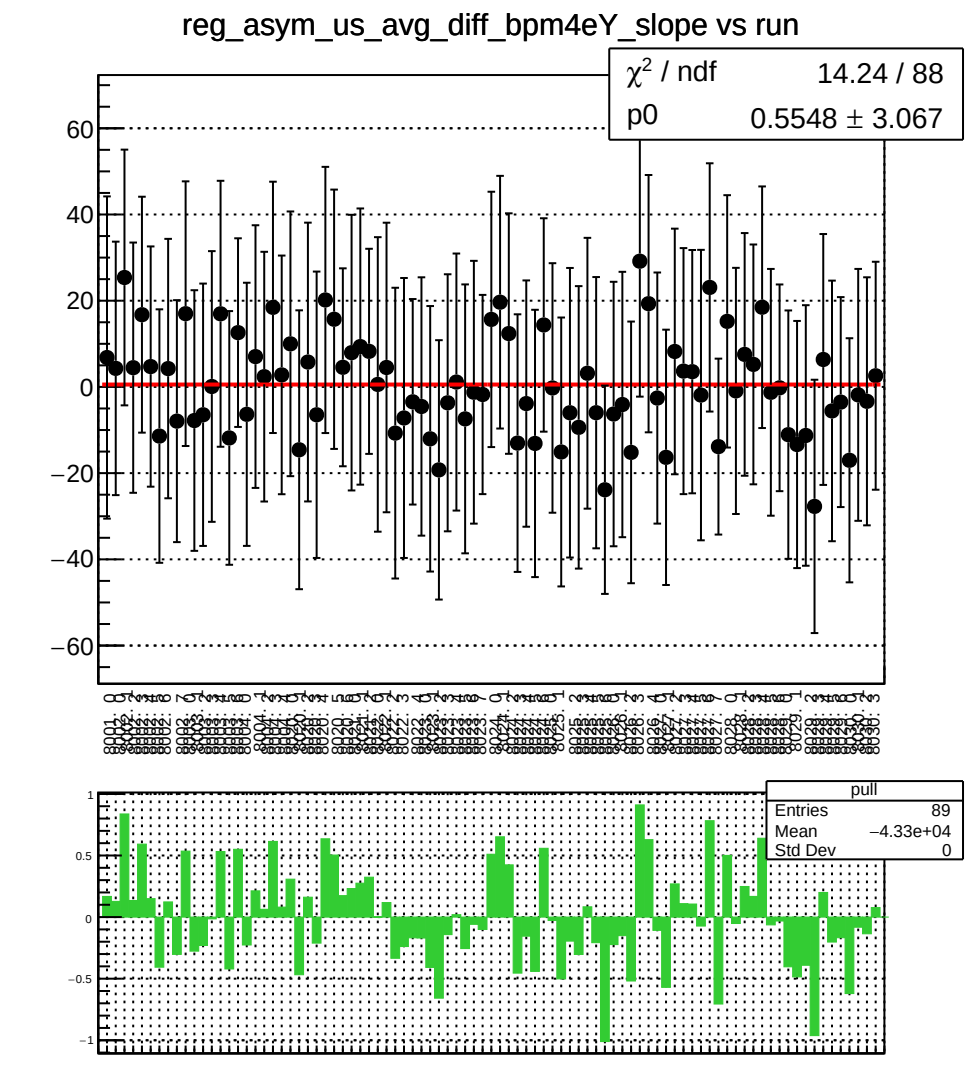

pull1D
Entries 89
Mean 0.1136
Std Dev 0.8906

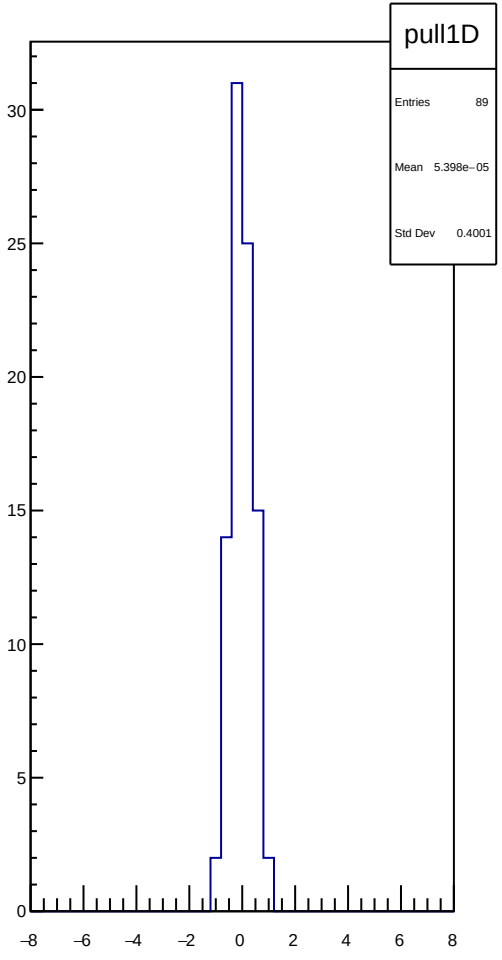

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 14.34 / 88
p0 16.35 ± 2.85
pull
Entries 89
Mean 1130
Std Dev 0

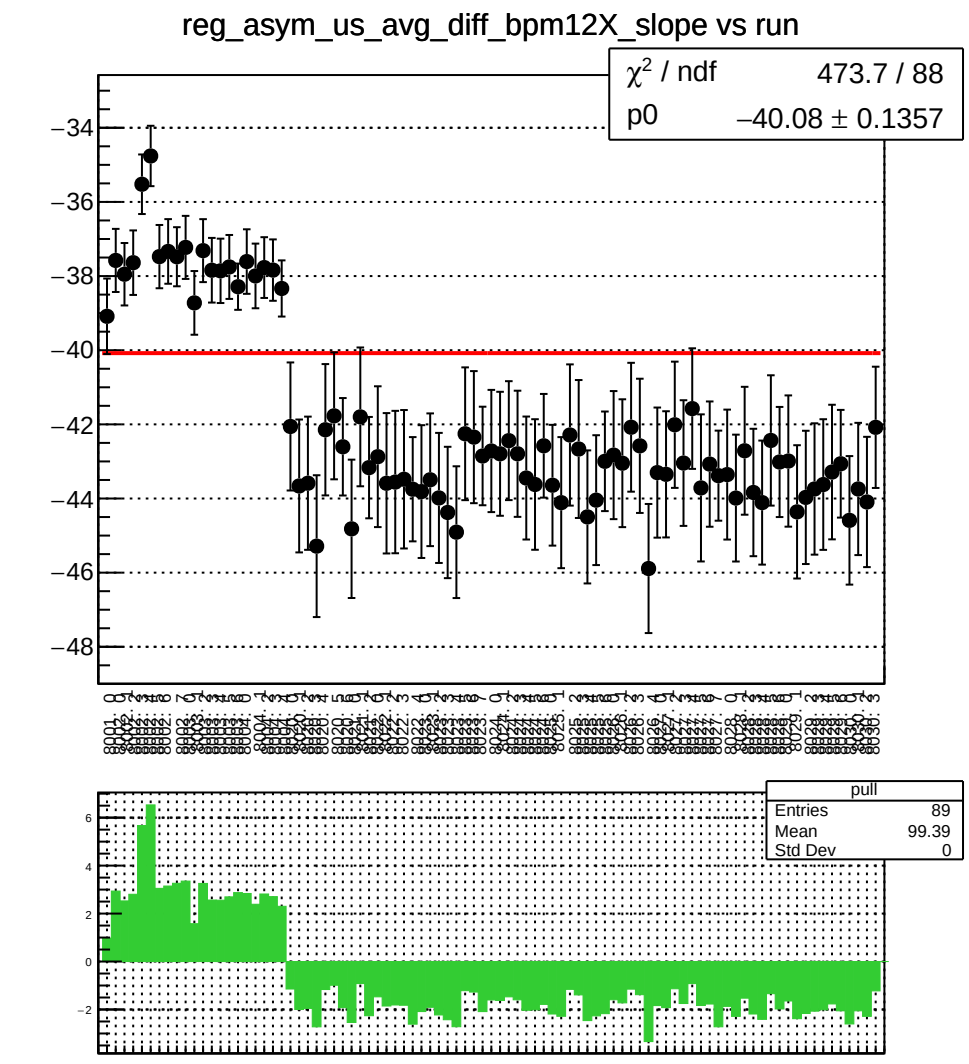

pull1D
Entries 89
Mean 0.002537
Std Dev 0.4013

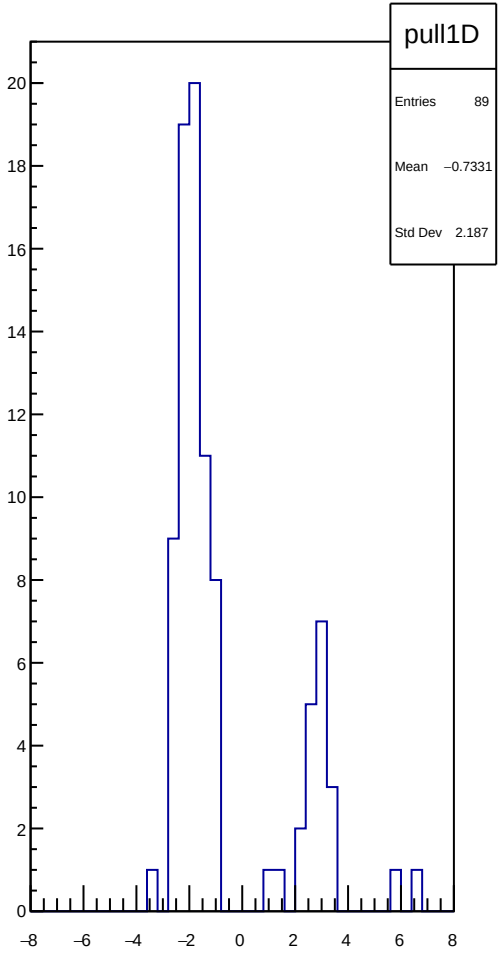

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 43.01 / 88
p0 56.39 ± 1.902
pull
Entries 89
Mean −160.3
Std Dev 0

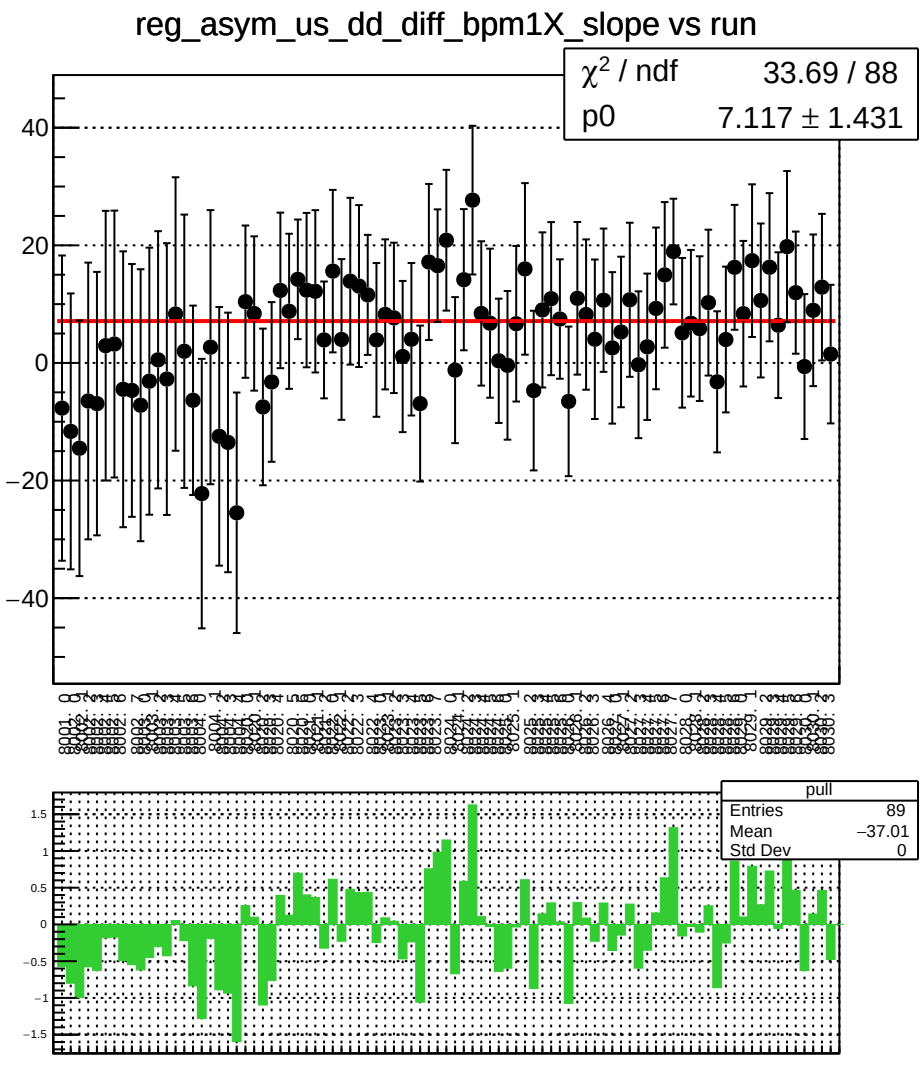

pull1D
Entries 89
Mean −0.05171
Std Dev 0.6932

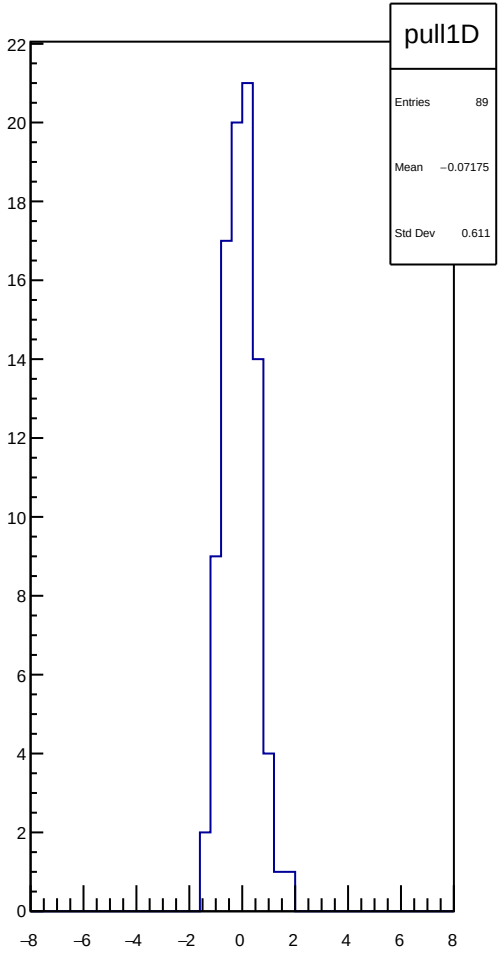

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 14.24 / 88
p0 0.5548 ± 3.067
pull
Entries 89
Mean −4.33e+04
Std Dev 0

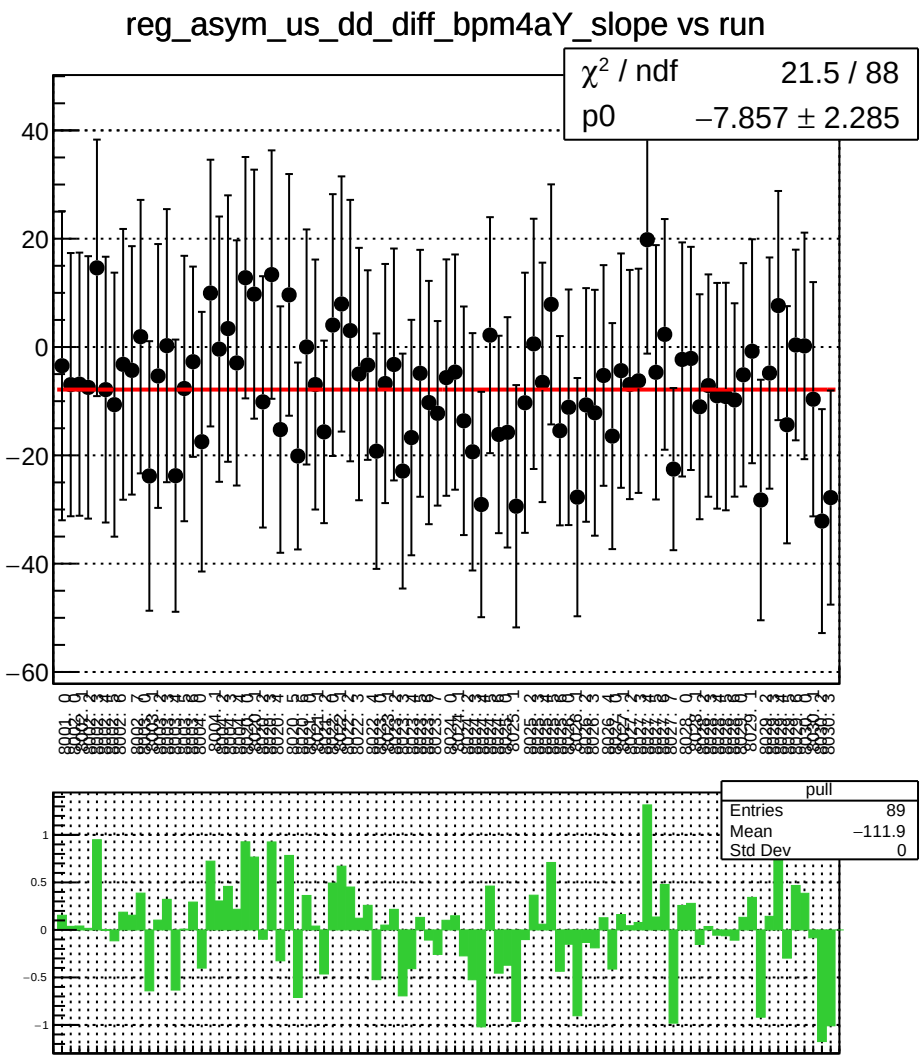

pull1D
Entries 89
Mean 5.398e−05
Std Dev 0.4001

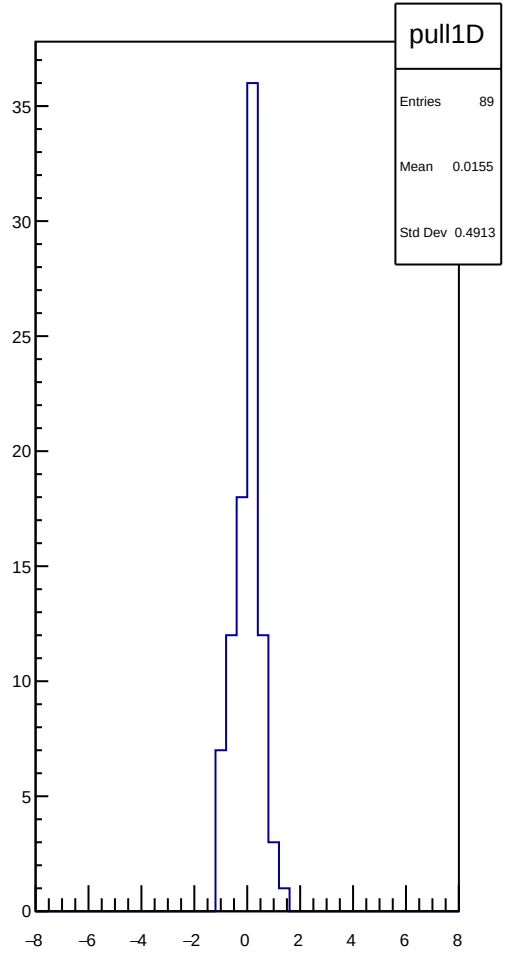

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 473.7 / 88
p0 −40.08 ± 0.1357
pull
Entries 89
Mean 99.39
Std Dev 0

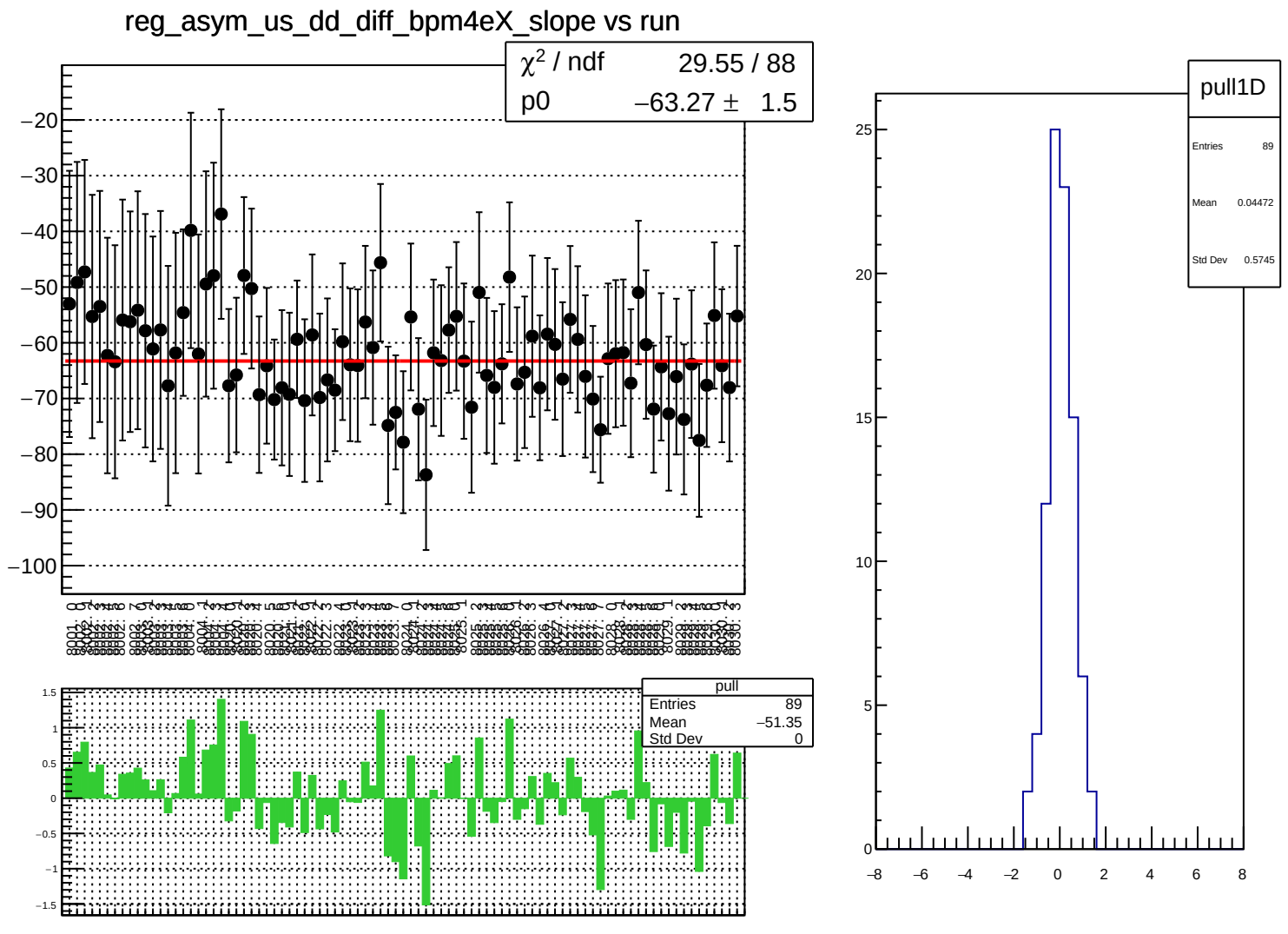

pull1D
Entries 89
Mean −0.7331
Std Dev 2.187

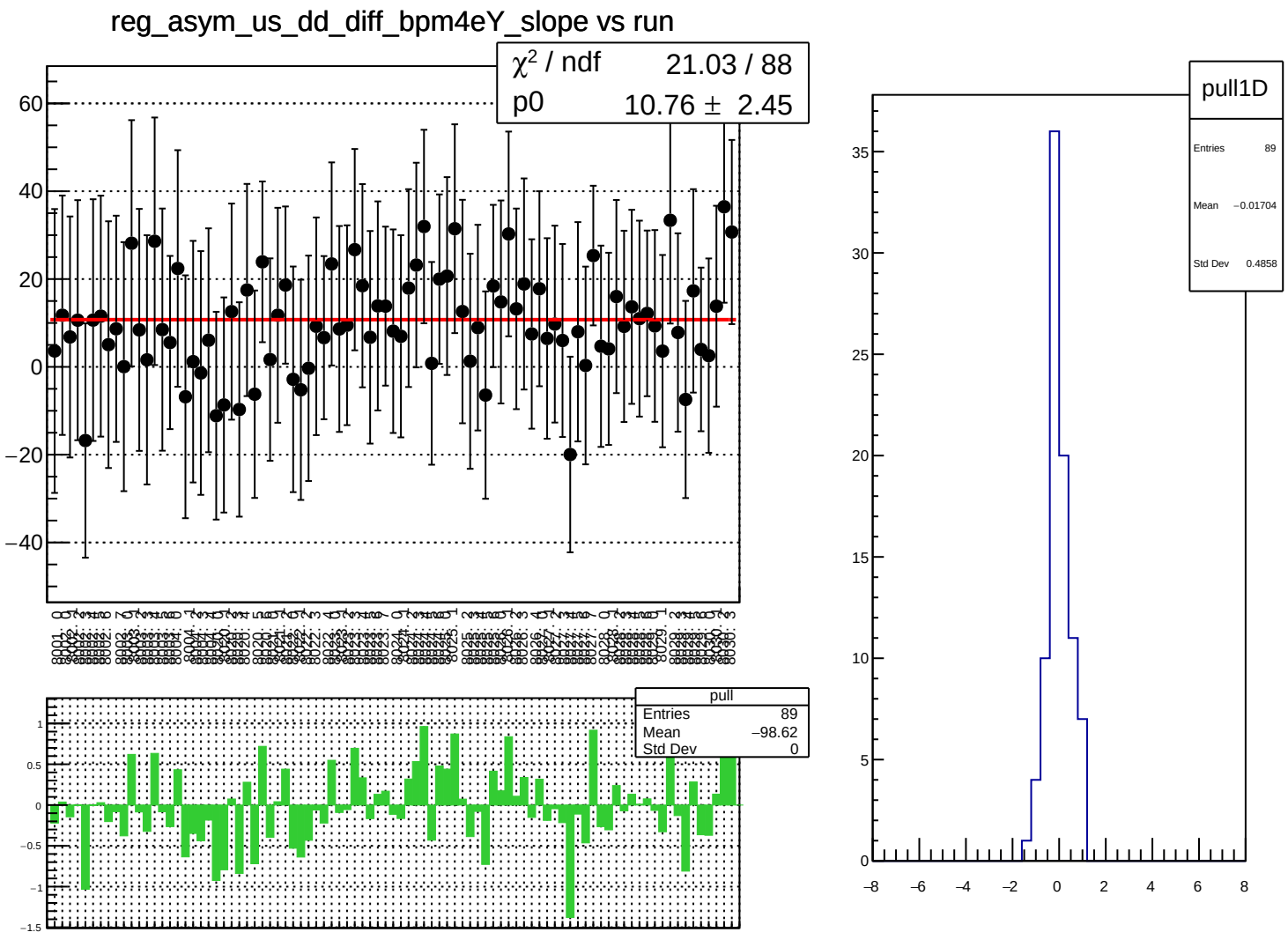

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 33.69 / 88
p0 7.117 ± 1.431
pull
Entries 89
Mean −37.01
Std Dev 0

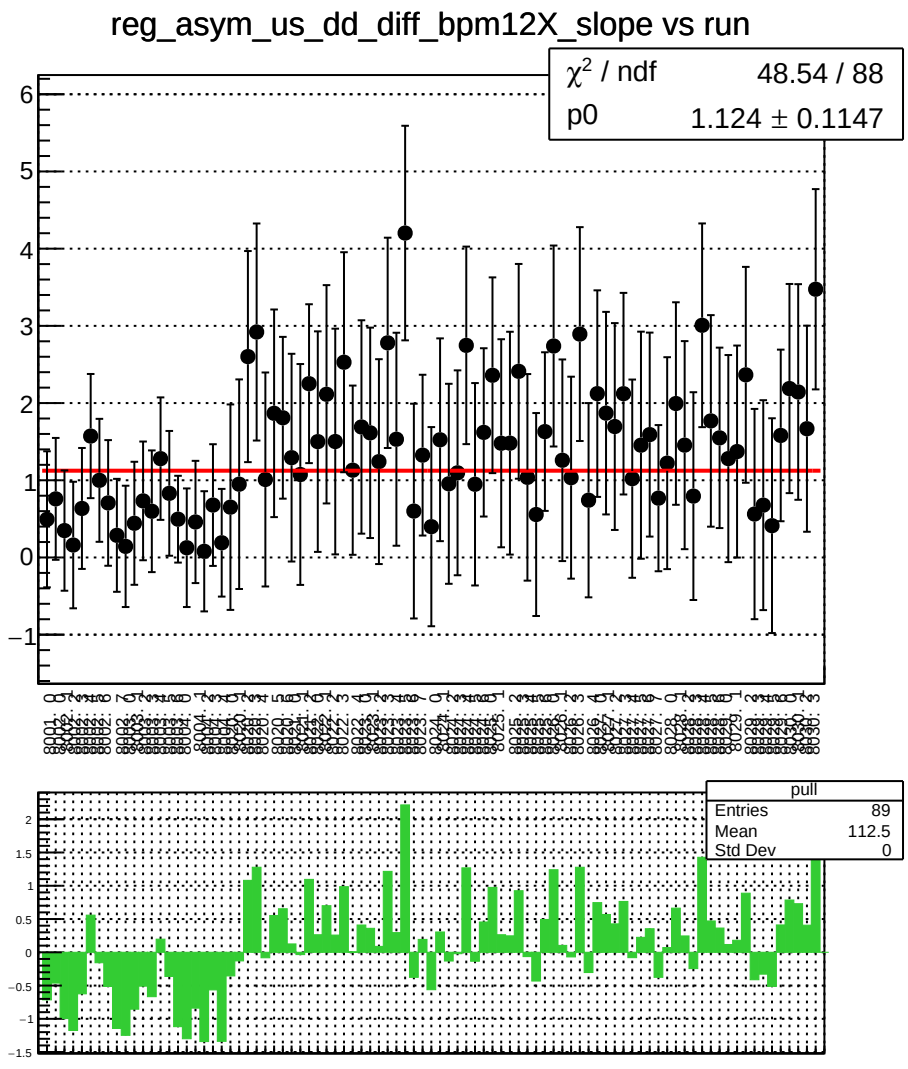

pull1D
Entries 89
Mean −0.07175
Std Dev 0.611

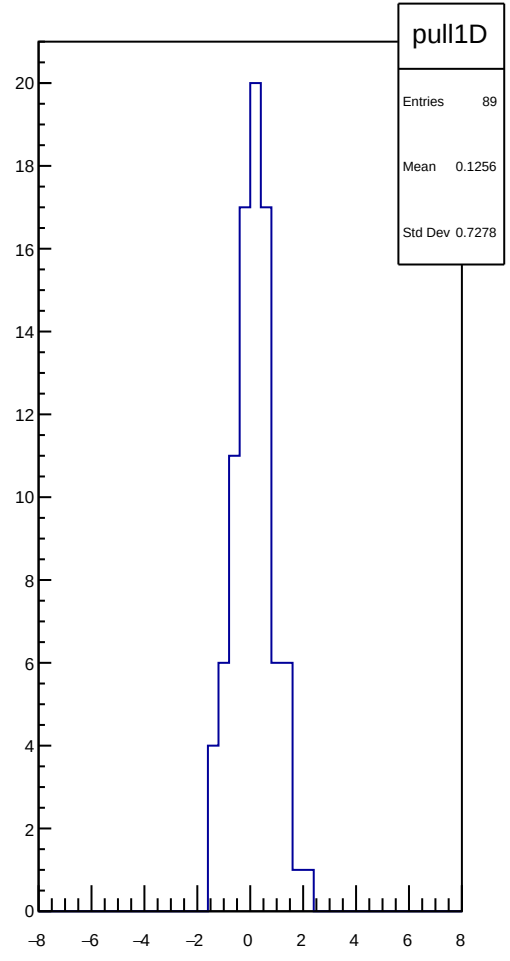

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 21.5 / 88
p0 −7.857 ± 2.285
pull
Entries 89
Mean −111.9
Std Dev 0

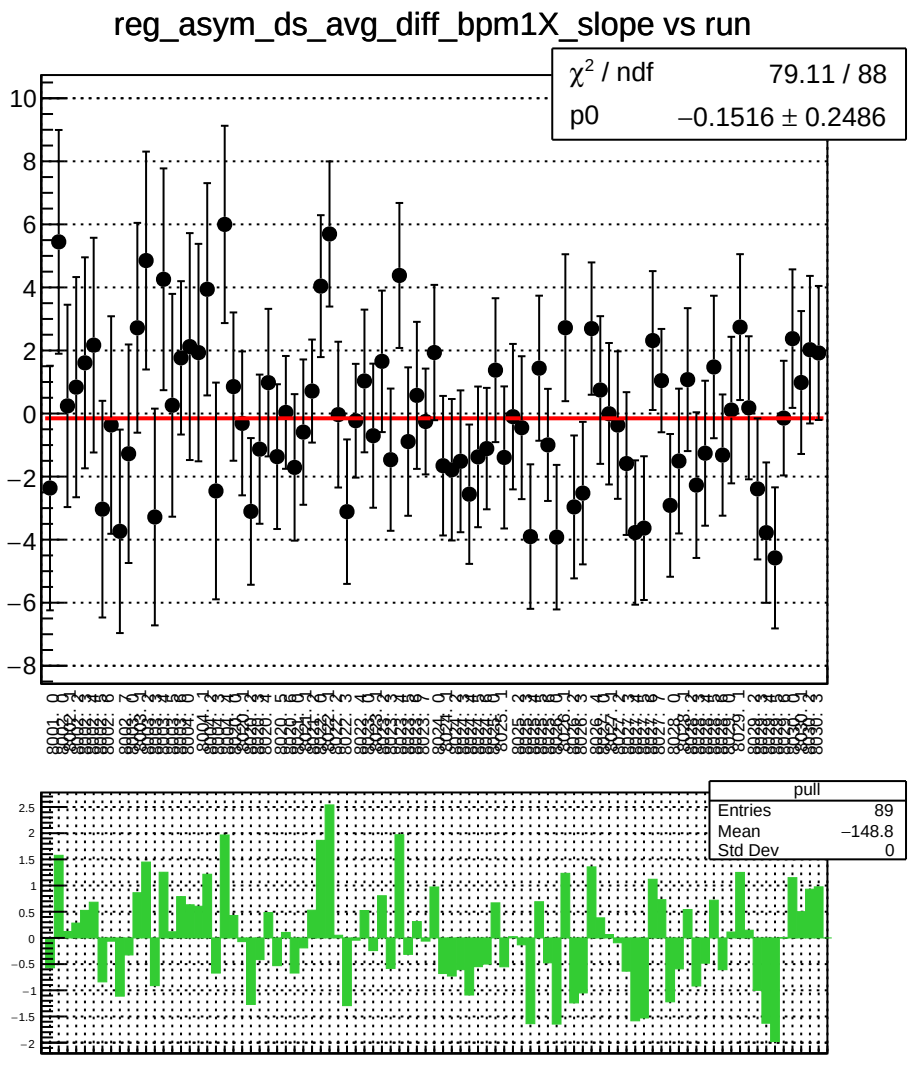

pull1D
Entries 89
Mean 0.0155
Std Dev 0.4913

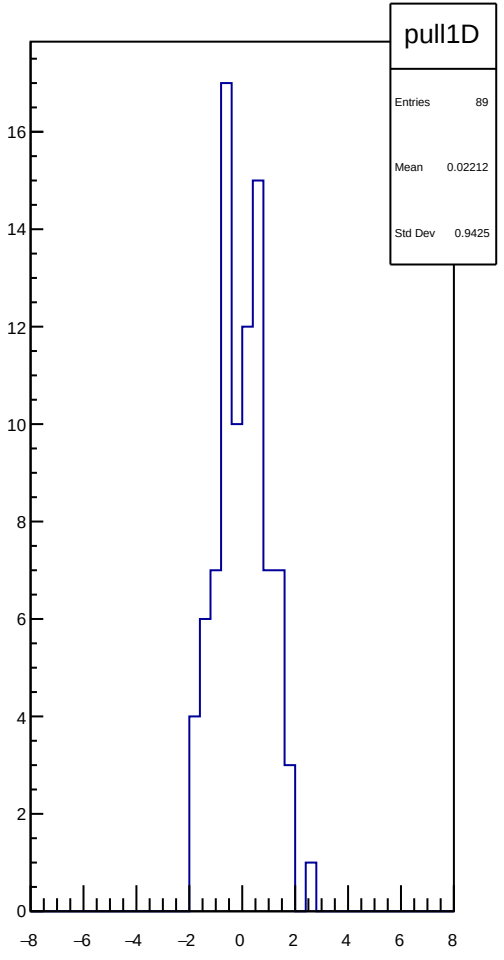

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 29.55 / 88
p0 −63.27 ± 1.5
pull
Entries 89
Mean −51.35
Std Dev 0
pull1D
Entries 89
Mean 0.04472
Std Dev 0.5745

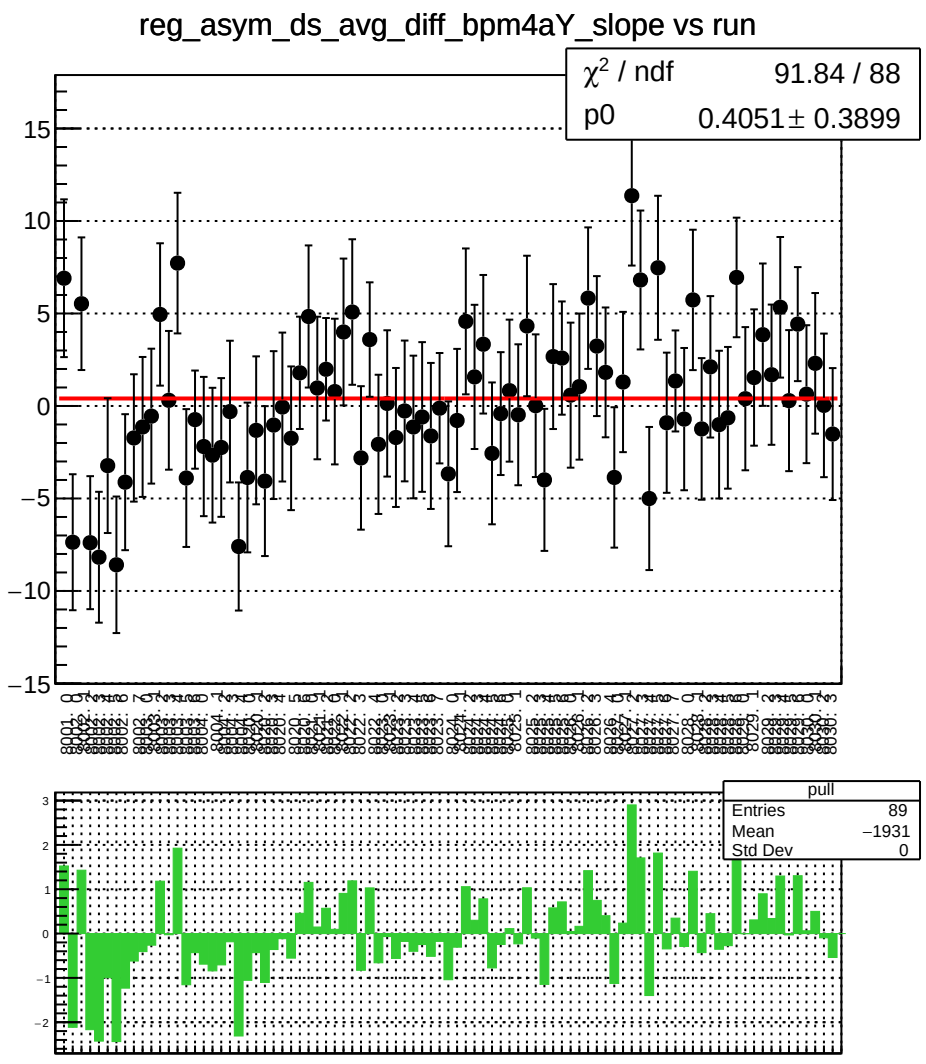

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 21.03 / 88
p0 10.76 ± 2.45
pull
Entries 89
Mean −98.62
Std Dev 0
pull1D
Entries 89
Mean −0.01704
Std Dev 0.4858

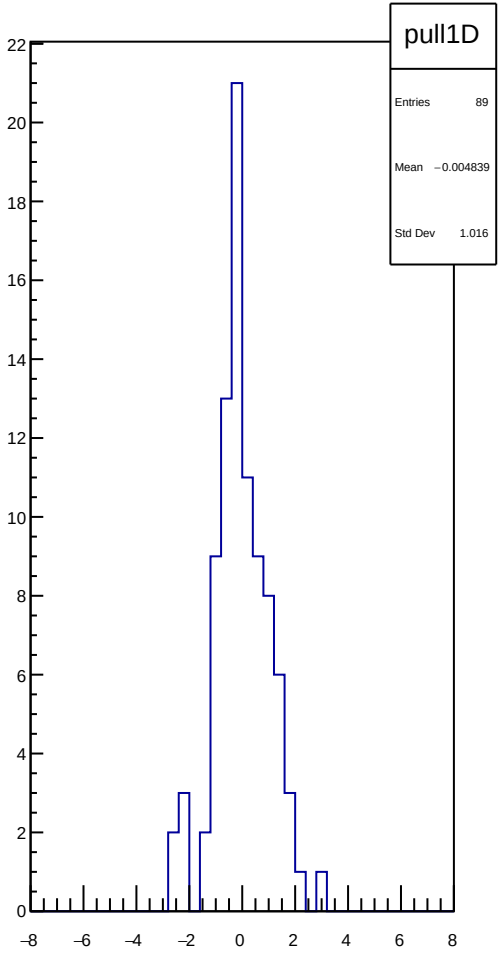

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 48.54 / 88
p0 1.124 ± 0.1147
pull
Entries 89
Mean 112.5
Std Dev 0

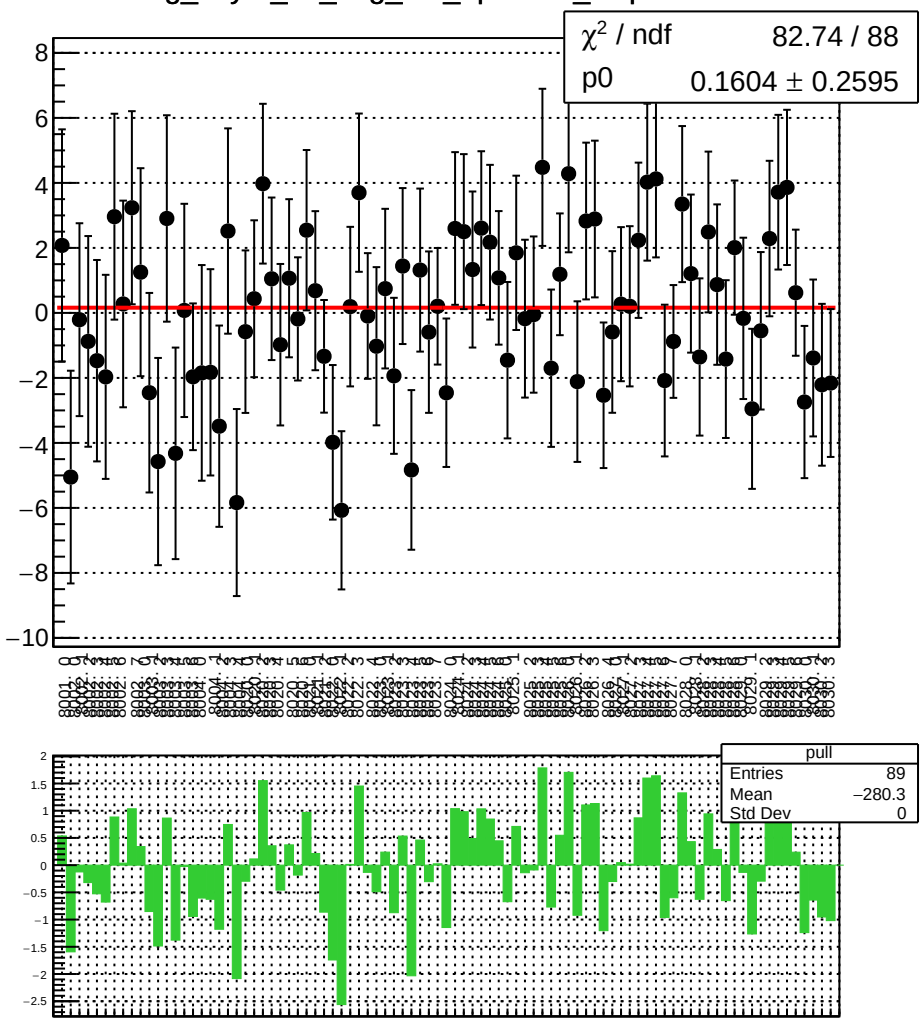

pull1D
Entries 89
Mean 0.1256
Std Dev 0.7278

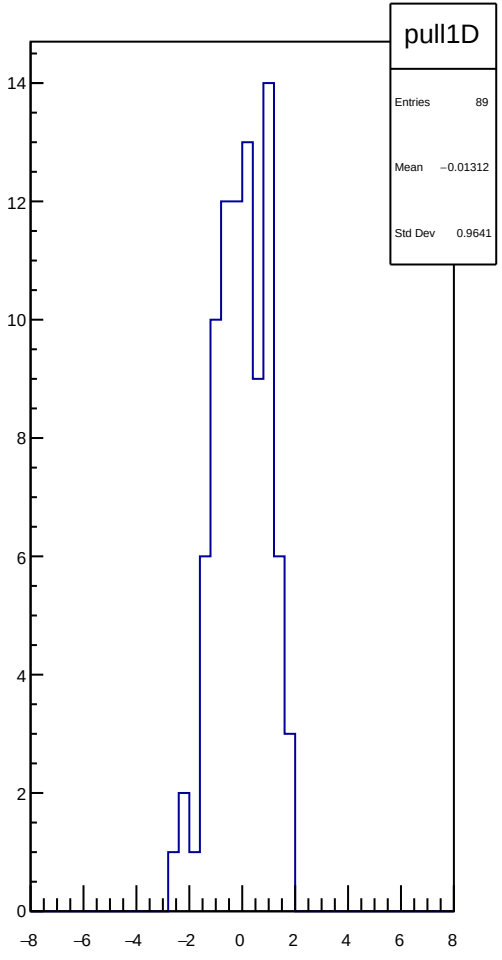

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ^2 / ndf 79.11 / 88
p0 −0.1516 ± 0.2486
pull
Entries 89
Mean −148.8
Std Dev 0

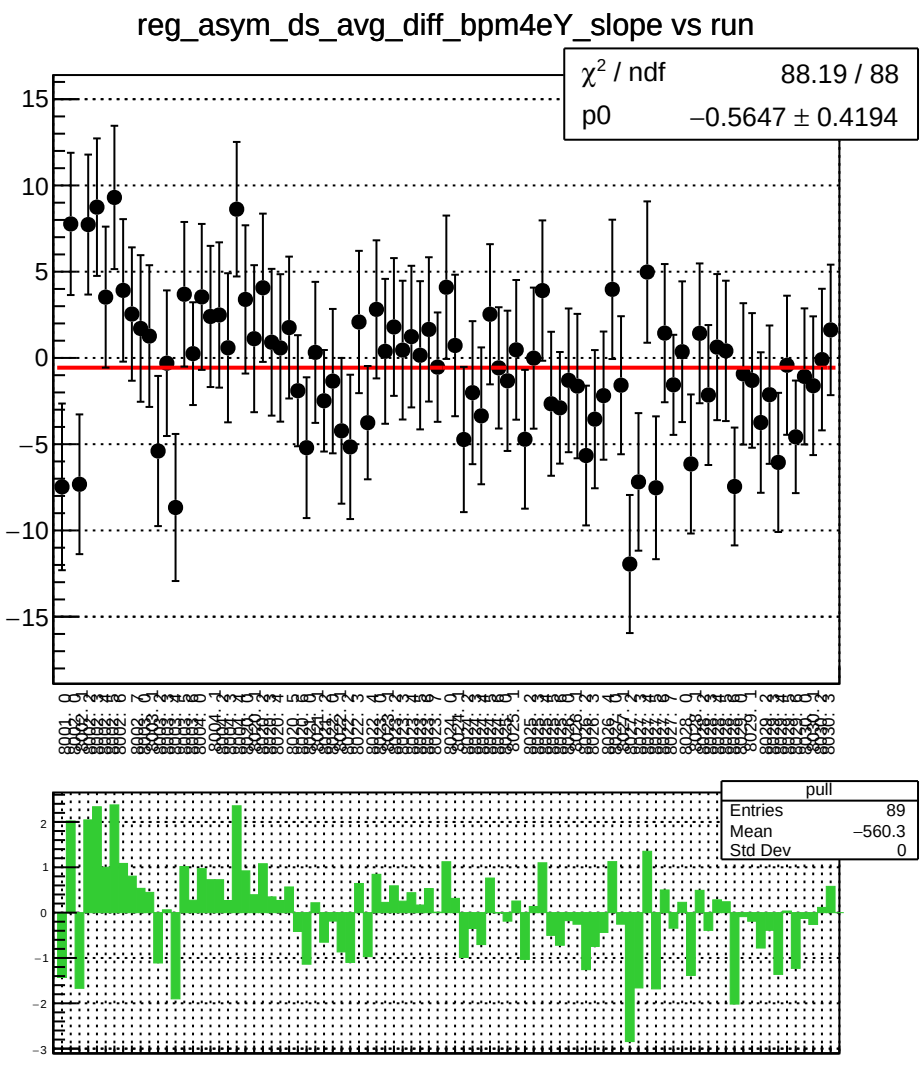

pull1D
Entries 89
Mean 0.02212
Std Dev 0.9425

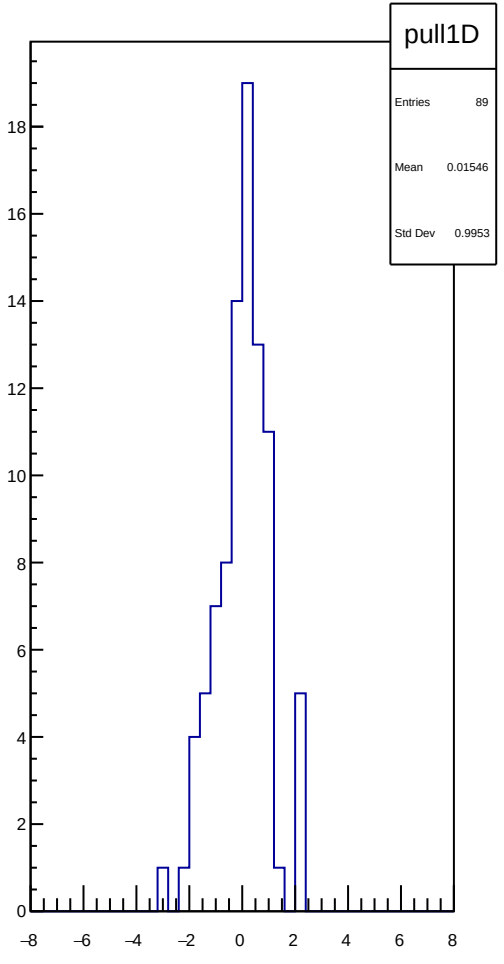

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 91.84 / 88
p0 0.4051± 0.3899
pull
Entries 89
Mean −1931
Std Dev 0

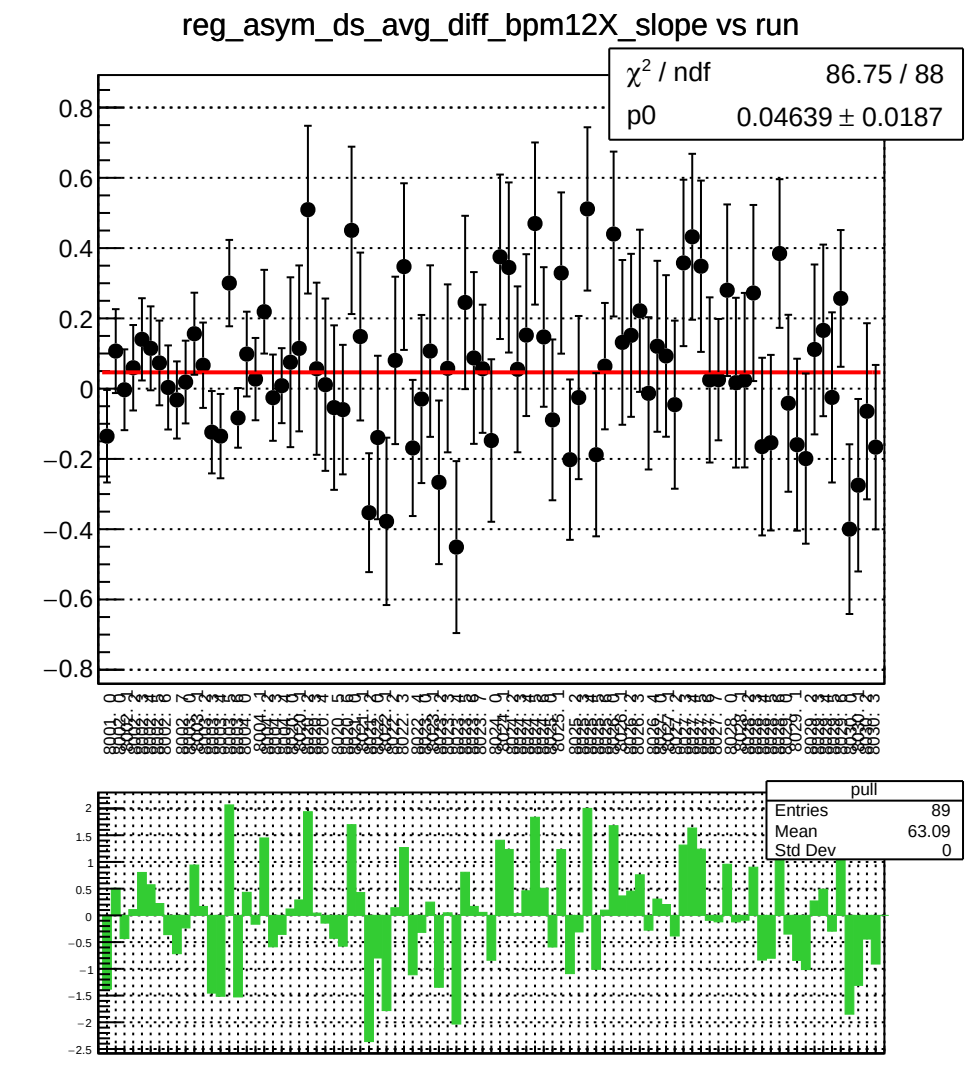

pull1D
Entries 89
Mean −0.004839
Std Dev 1.016

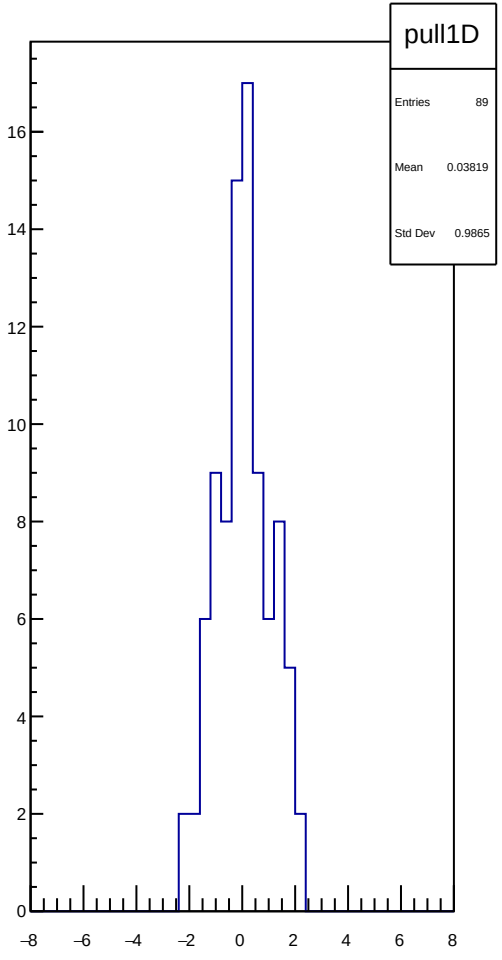

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 82.74 / 88
p0 0.1604 ± 0.2595
pull
Entries 89
Mean −280.3
Std Dev 0

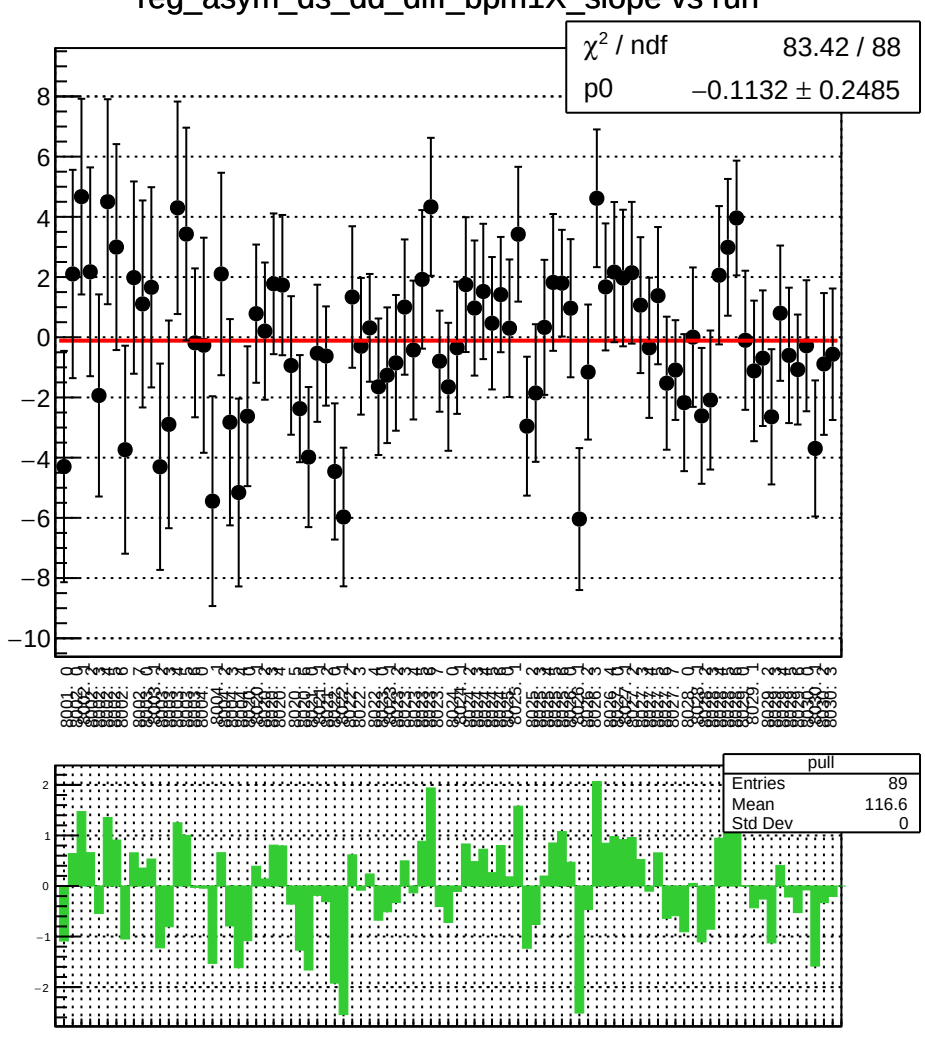

pull1D
Entries 89
Mean −0.01312
Std Dev 0.9641

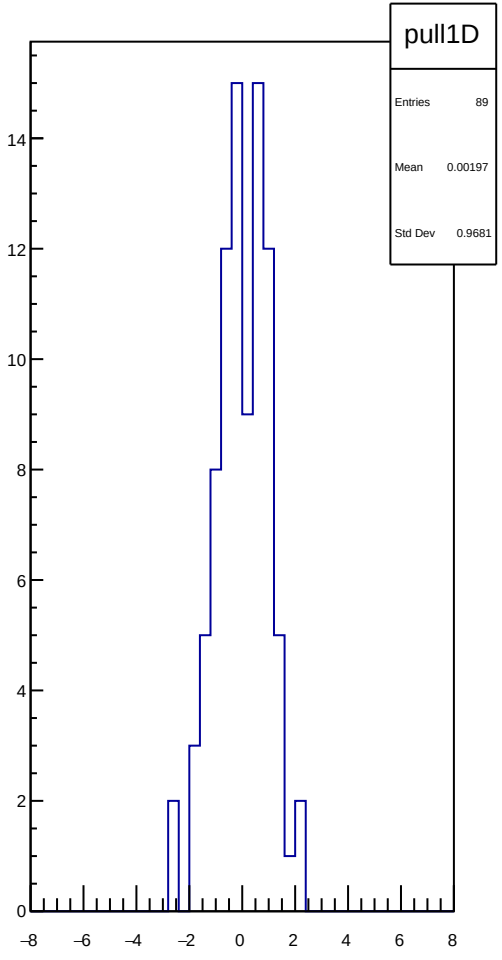

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 88.19 / 88
p0 −0.5647 ± 0.4194
pull
Entries 89
Mean −560.3
Std Dev 0

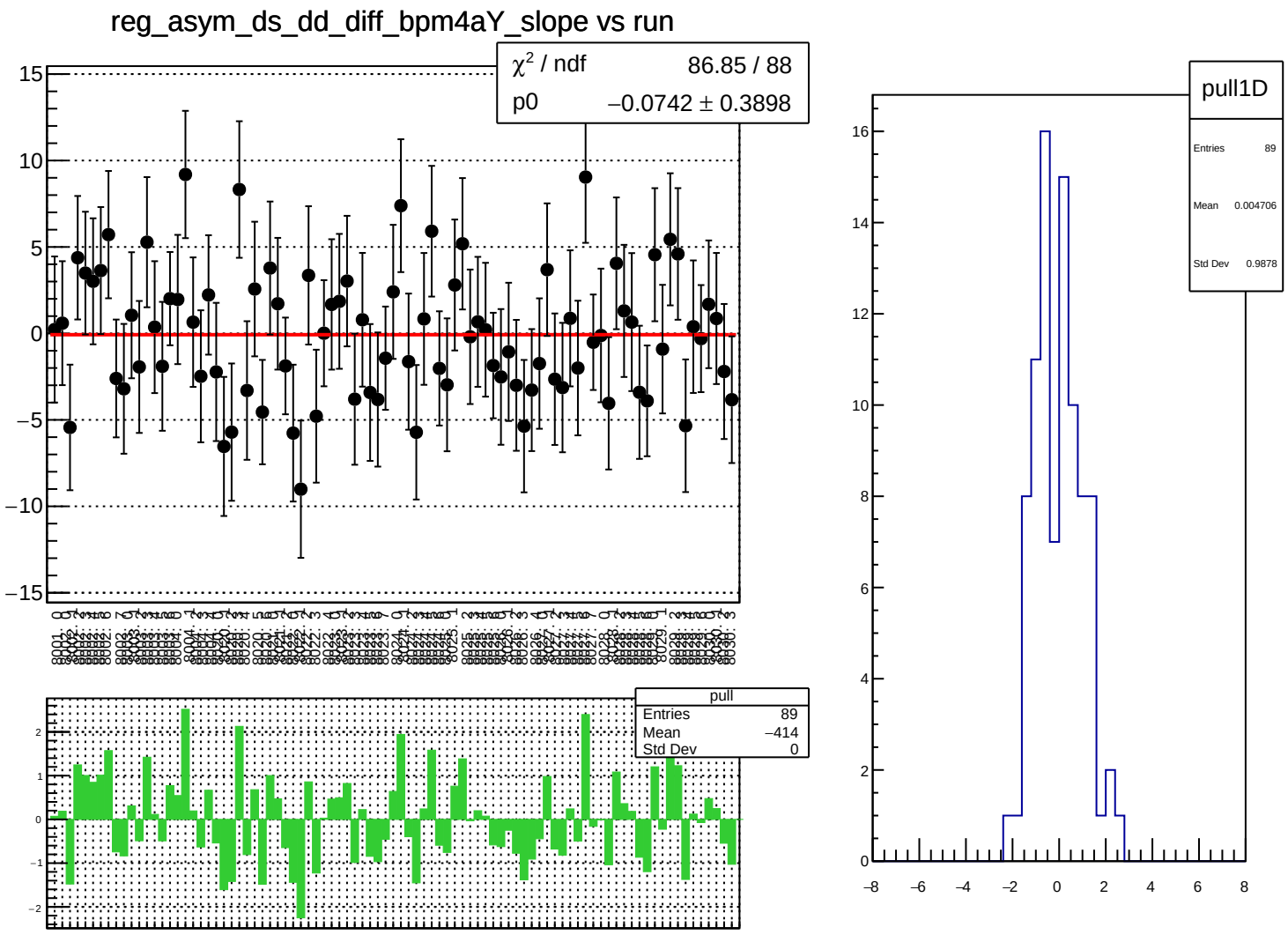

pull1D
Entries 89
Mean 0.01546
Std Dev 0.9953

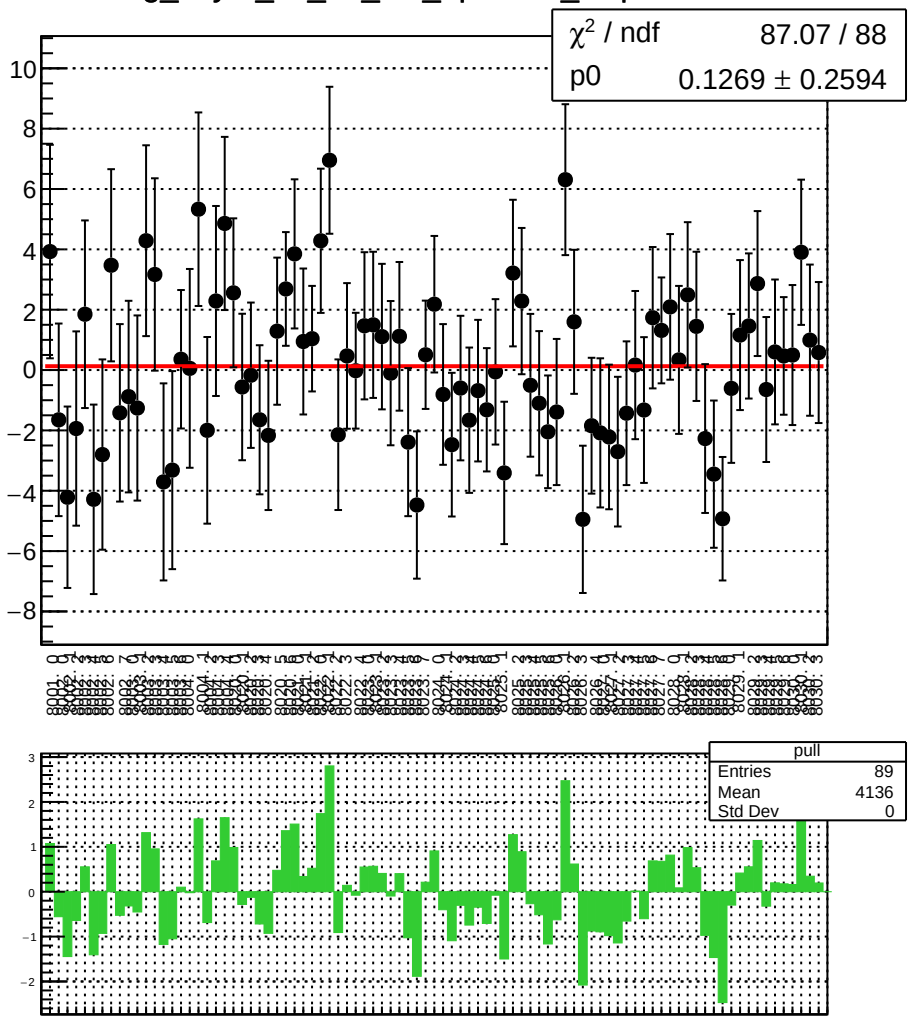

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 86.75 / 88
p0 0.04639 ± 0.0187
pull
Entries 89
Mean 63.09
Std Dev 0

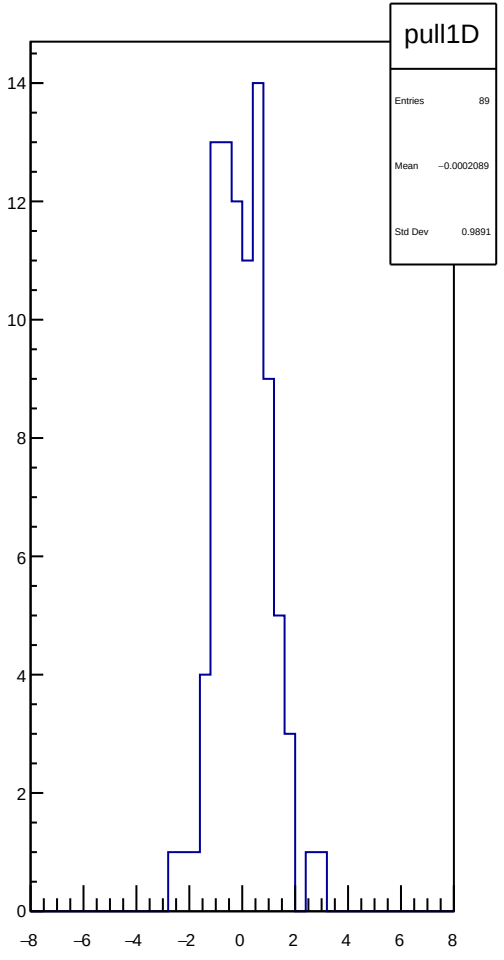

pull1D
Entries 89
Mean 0.03819
Std Dev 0.9865

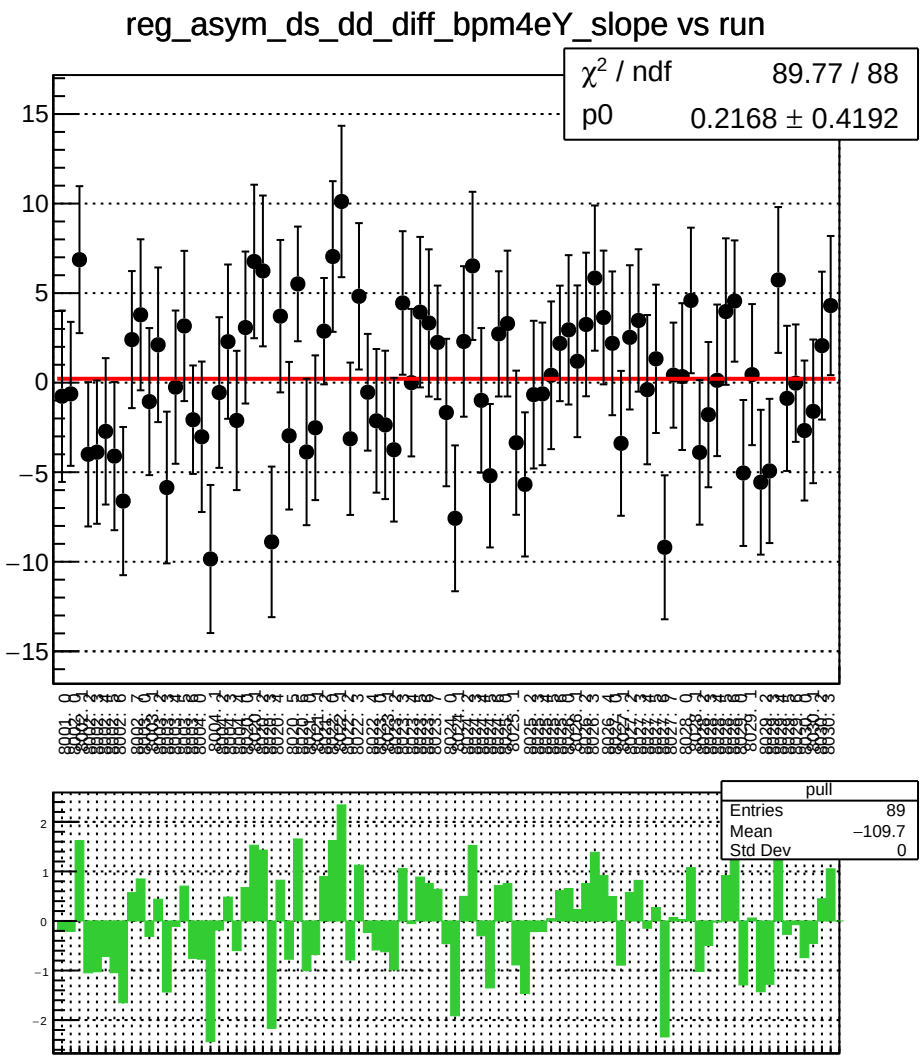

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 83.42 / 88
p0 −0.1132 ± 0.2485
pull
Entries 89
Mean 116.6
Std Dev 0

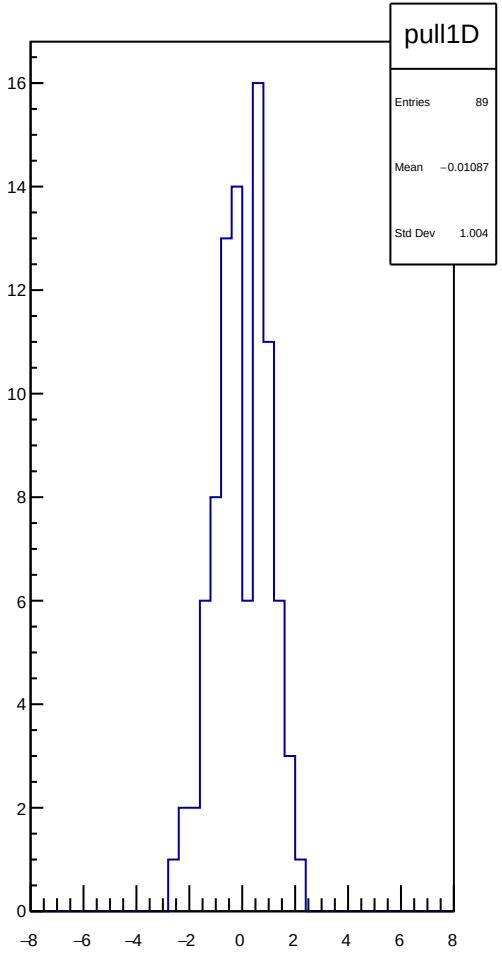

pull1D
Entries 89
Mean 0.00197
Std Dev 0.9681

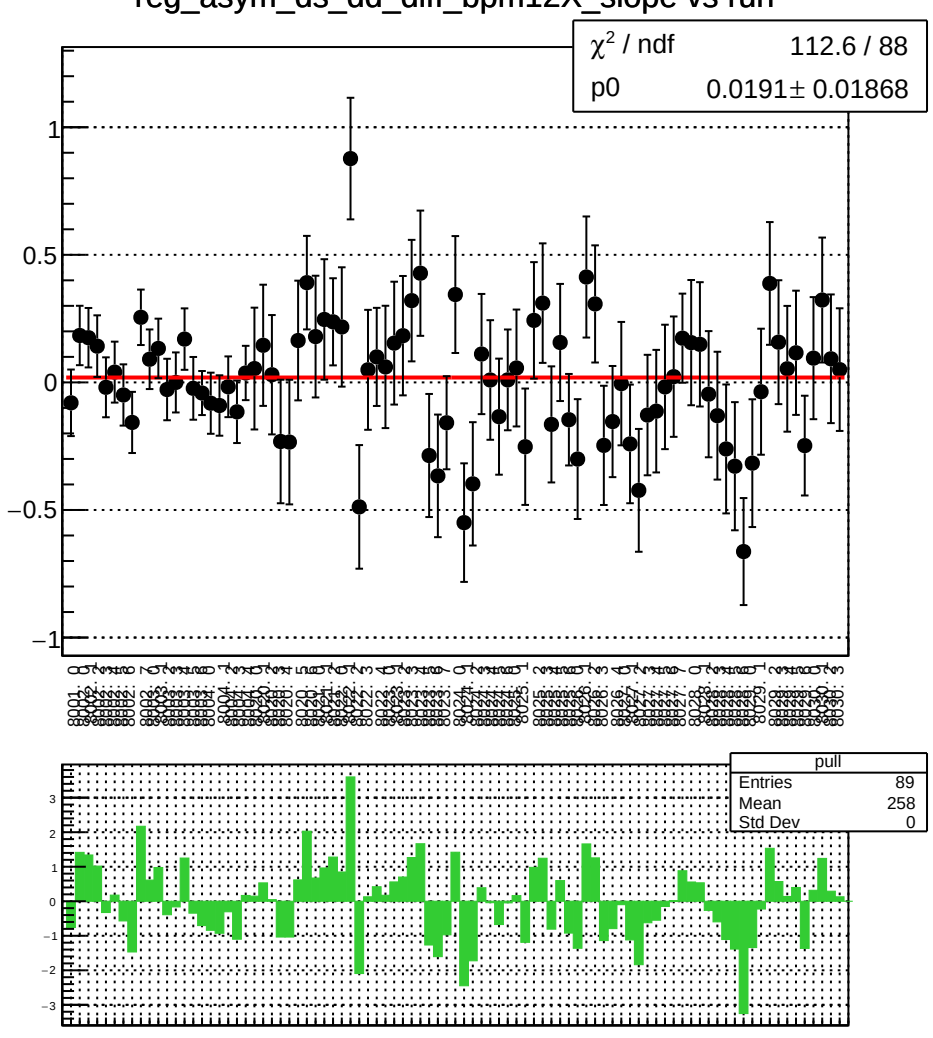

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 86.85 / 88
p0 −0.0742 ± 0.3898
pull
Entries 89
Mean −414
Std Dev 0
pull1D
Entries 89
Mean 0.004706
Std Dev 0.9878

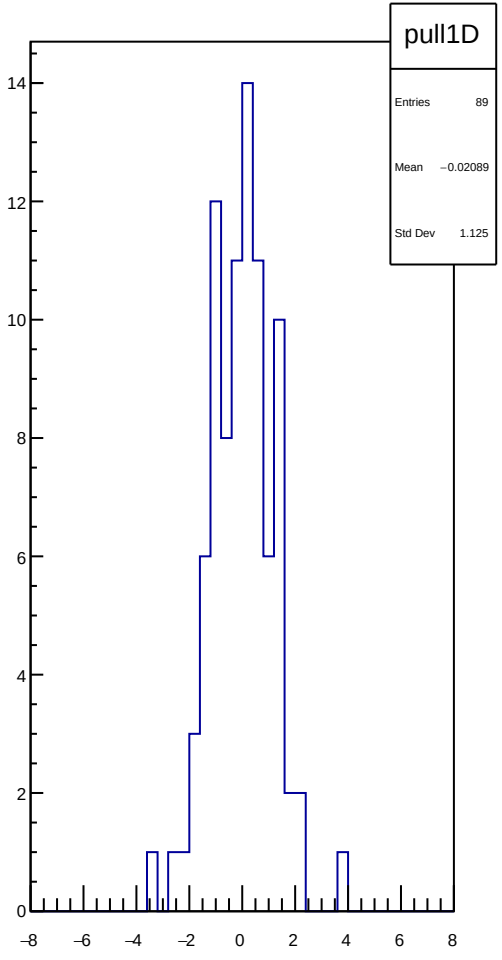

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 87.07 / 88
p0 0.1269 ± 0.2594
pull
Entries 89
Mean 4136
Std Dev 0

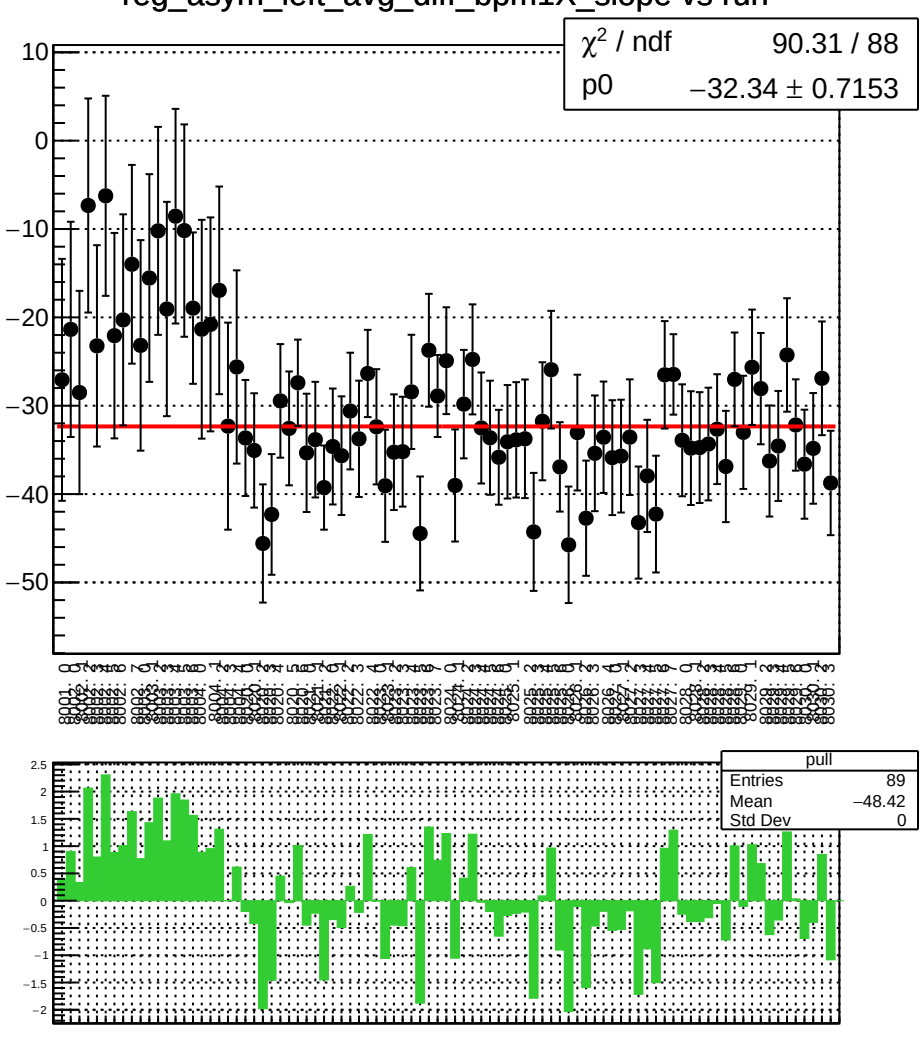

pull1D
Entries 89
Mean −0.0002089
Std Dev 0.9891

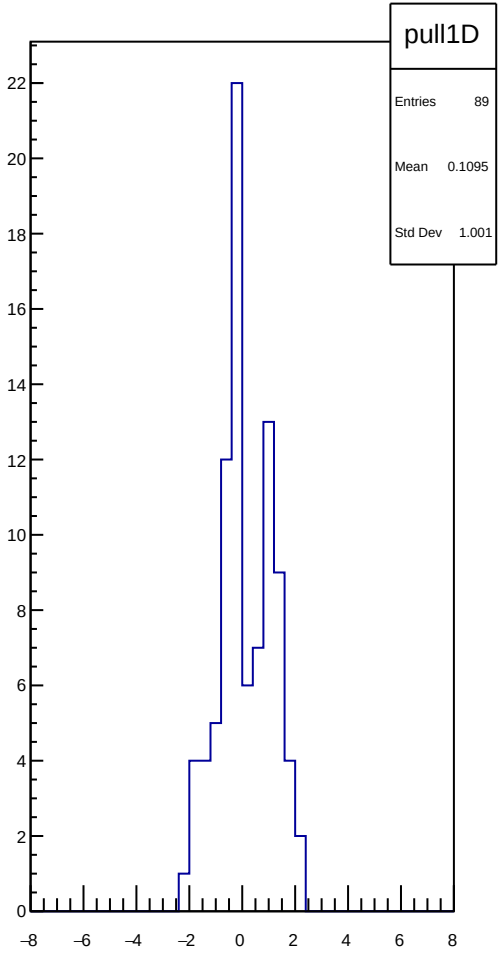

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 89.77 / 88
p0 0.2168 ± 0.4192
pull
Entries 89
Mean −109.7
Std Dev 0

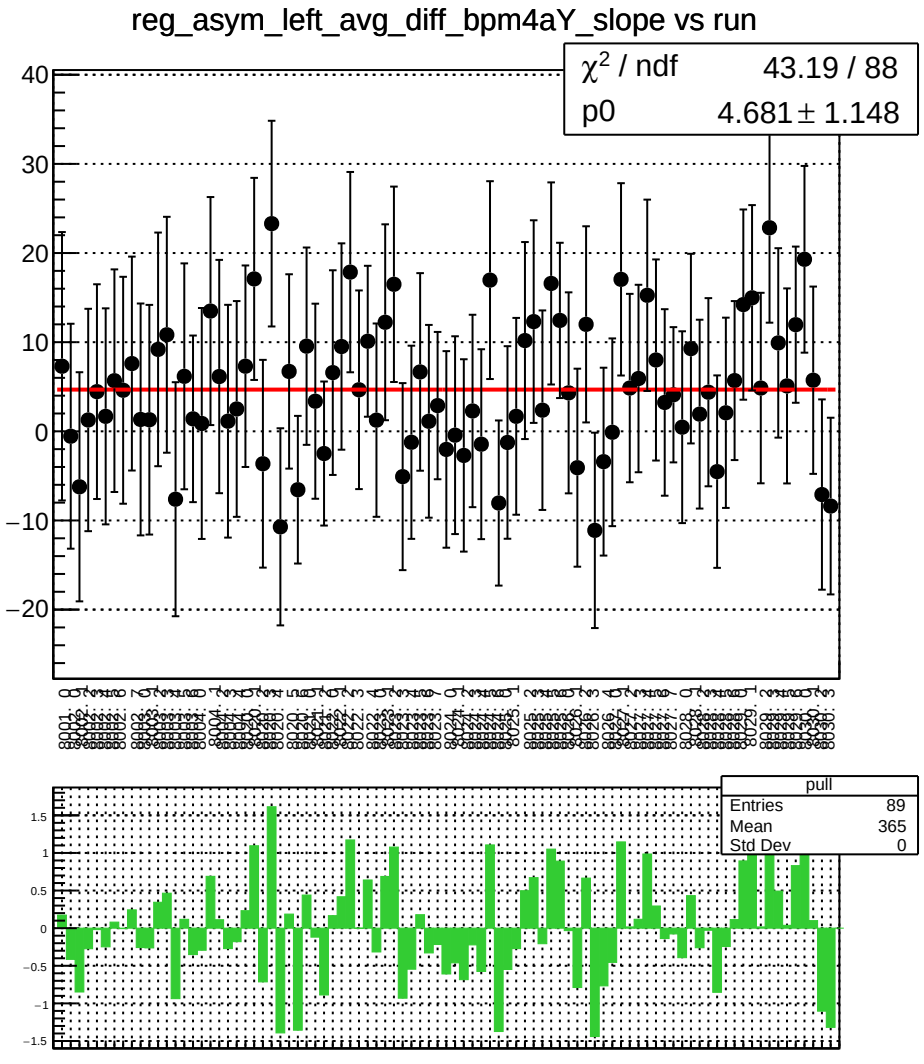

pull1D
Entries 89
Mean −0.01087
Std Dev 1.004

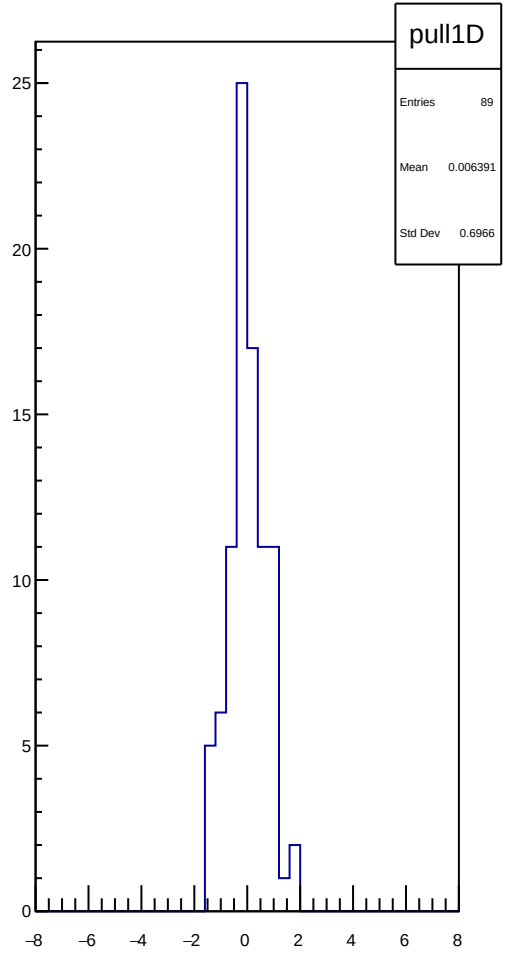

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 112.6 / 88
p0 0.0191± 0.01868
pull
Entries 89
Mean 258
Std Dev 0

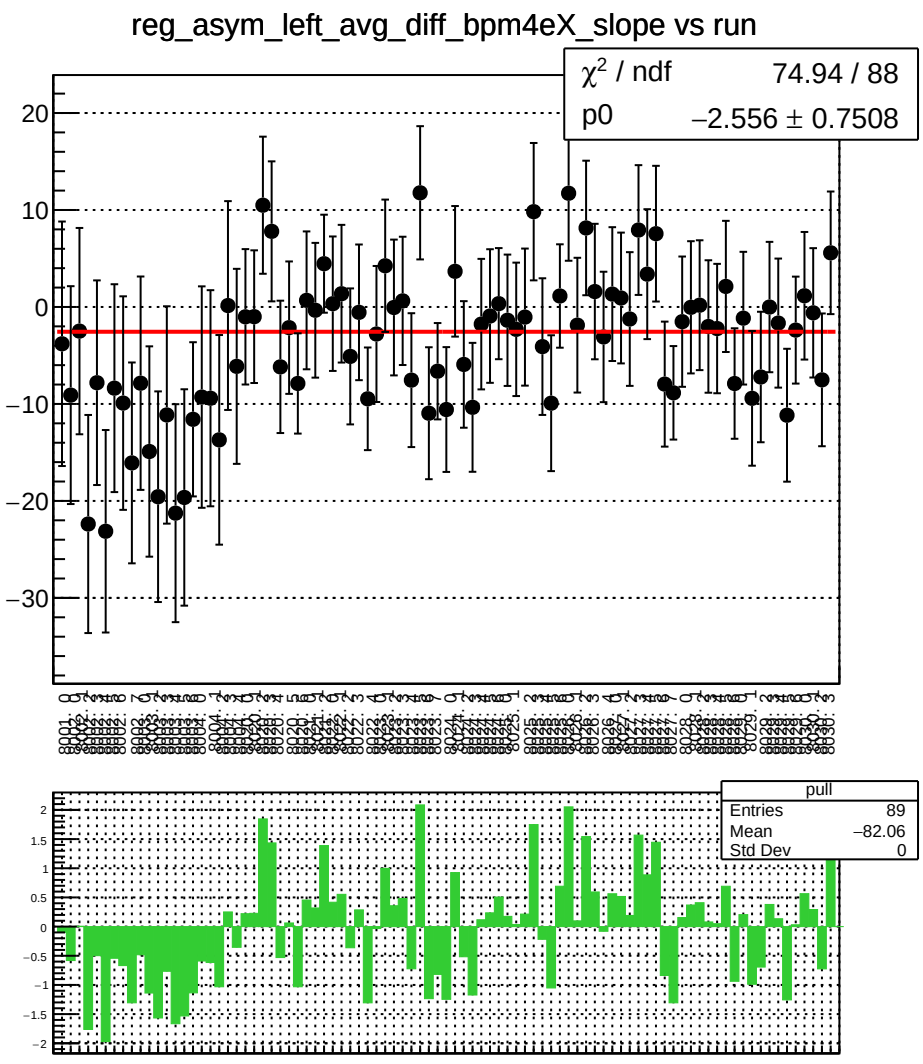

pull1D
Entries 89
Mean −0.02089
Std Dev 1.125

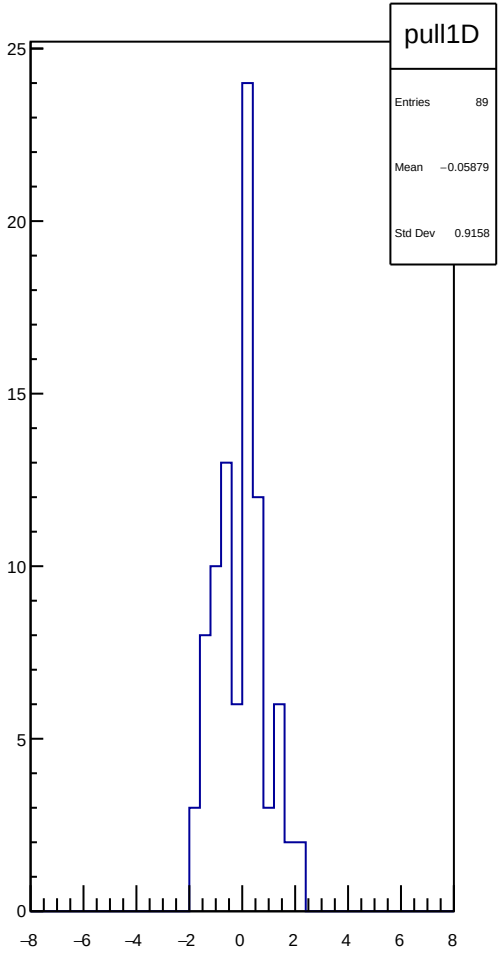

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 90.31 / 88
p0 −32.34 ± 0.7153
pull
Entries 89
Mean −48.42
Std Dev 0

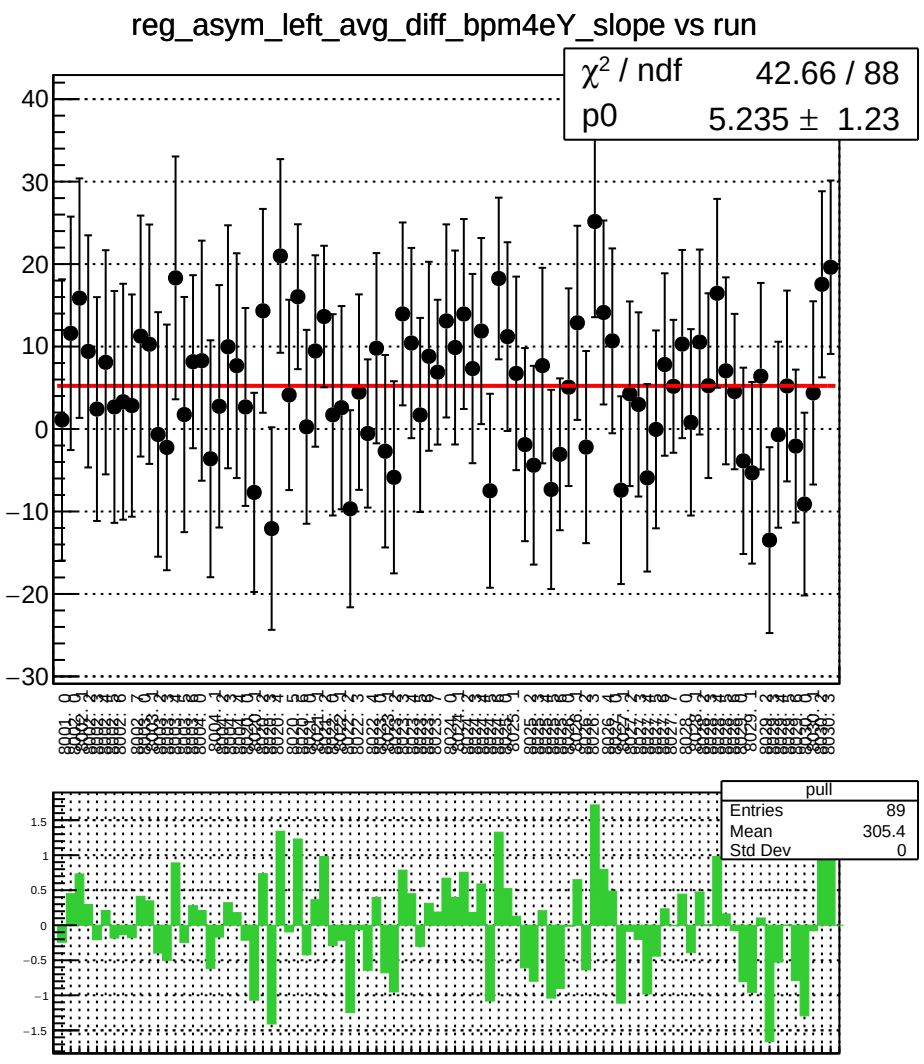

pull1D
Entries 89
Mean 0.1095
Std Dev 1.001

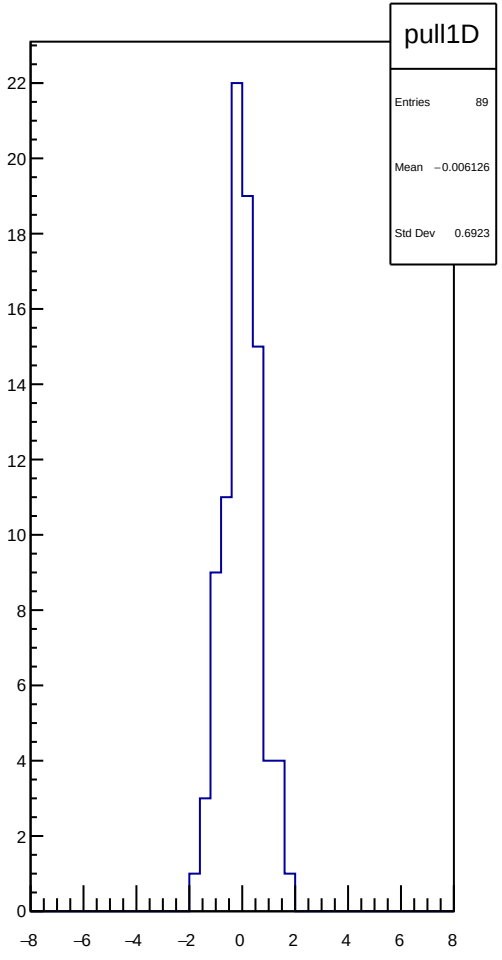

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 43.19 / 88
p0 4.681 ± 1.148
pull
Entries 89
Mean 365
Std Dev 0

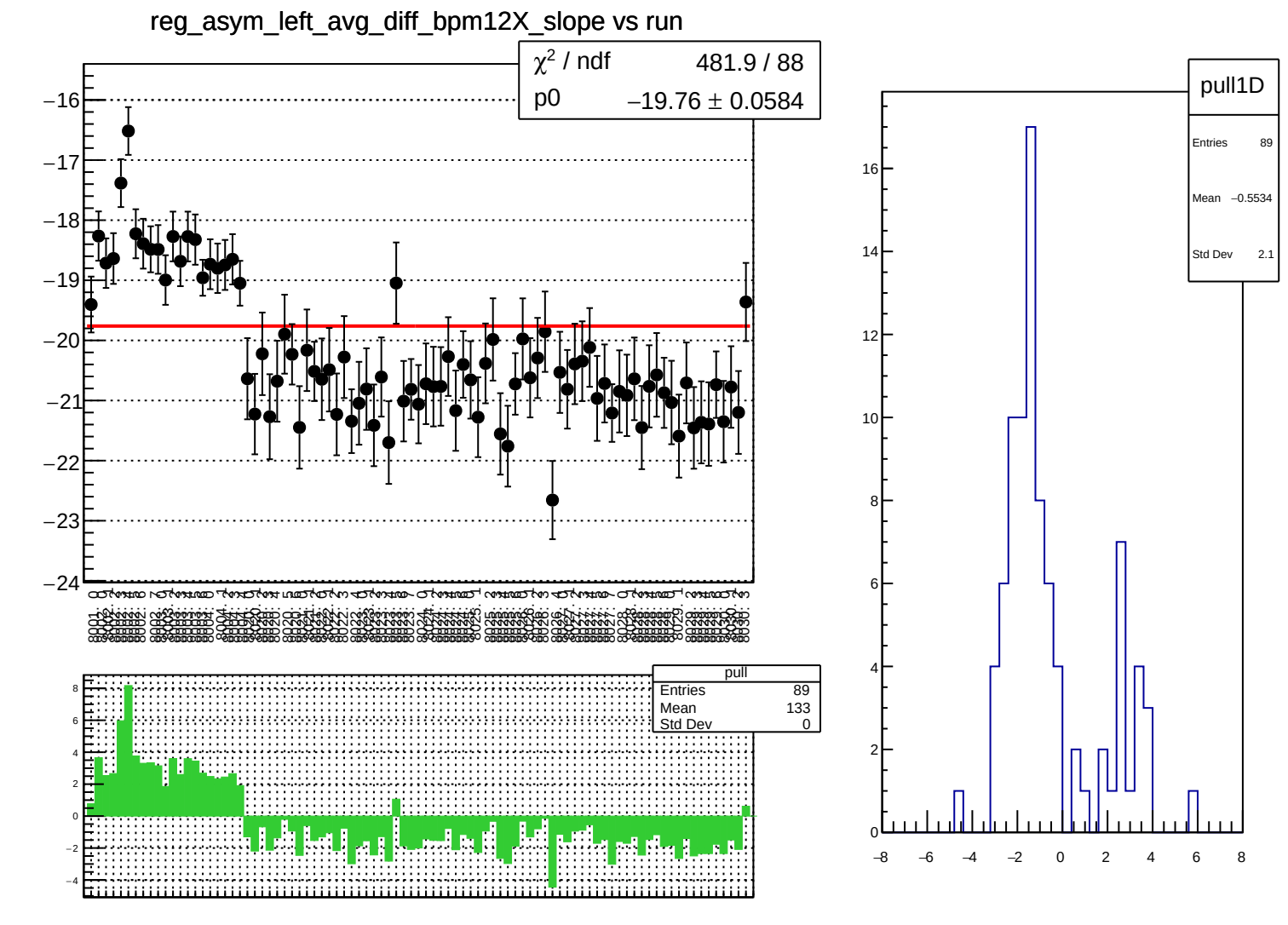

pull1D
Entries 89
Mean 0.006391
Std Dev 0.6966

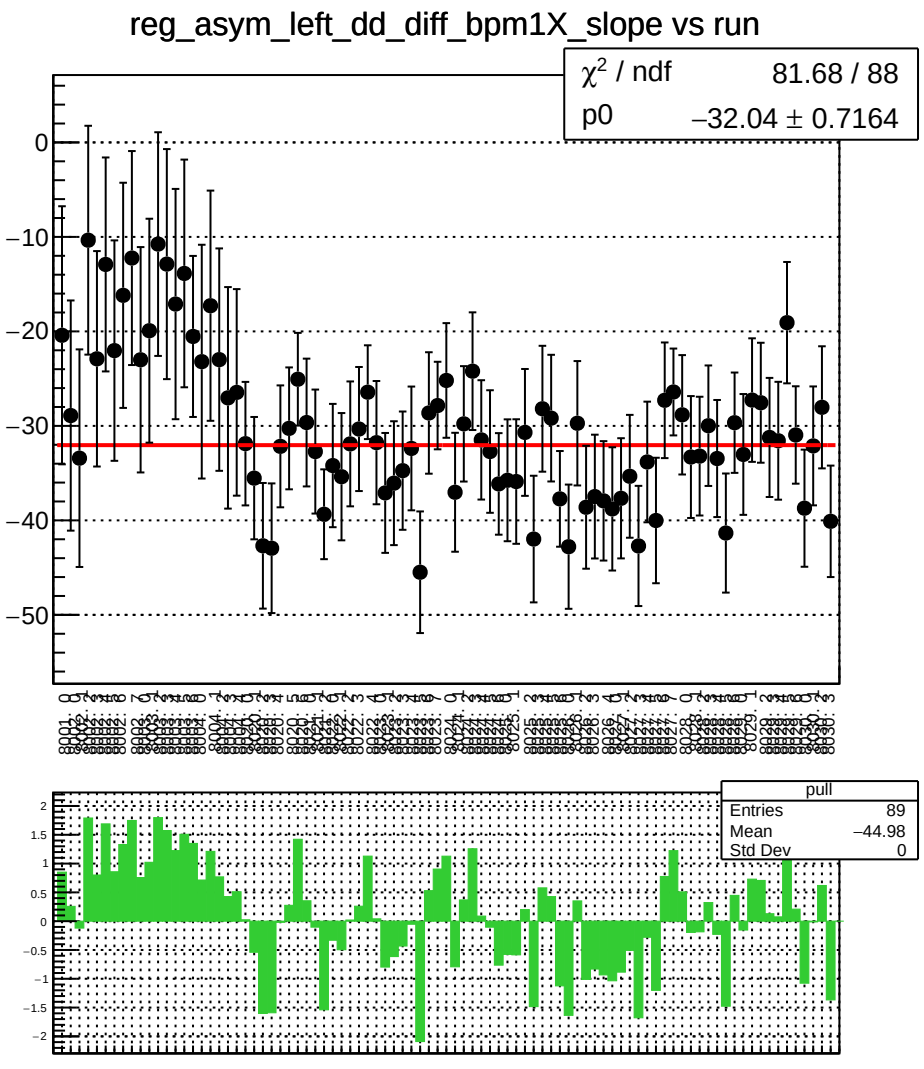

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 74.94 / 88
p0 −2.556 ± 0.7508
pull
Entries 89
Mean −82.06
Std Dev 0

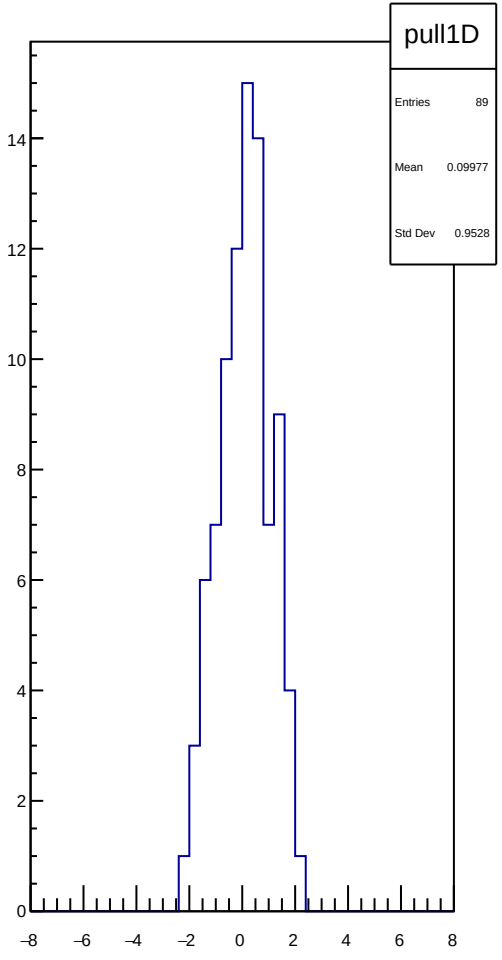

pull1D
Entries 89
Mean −0.05879
Std Dev 0.9158

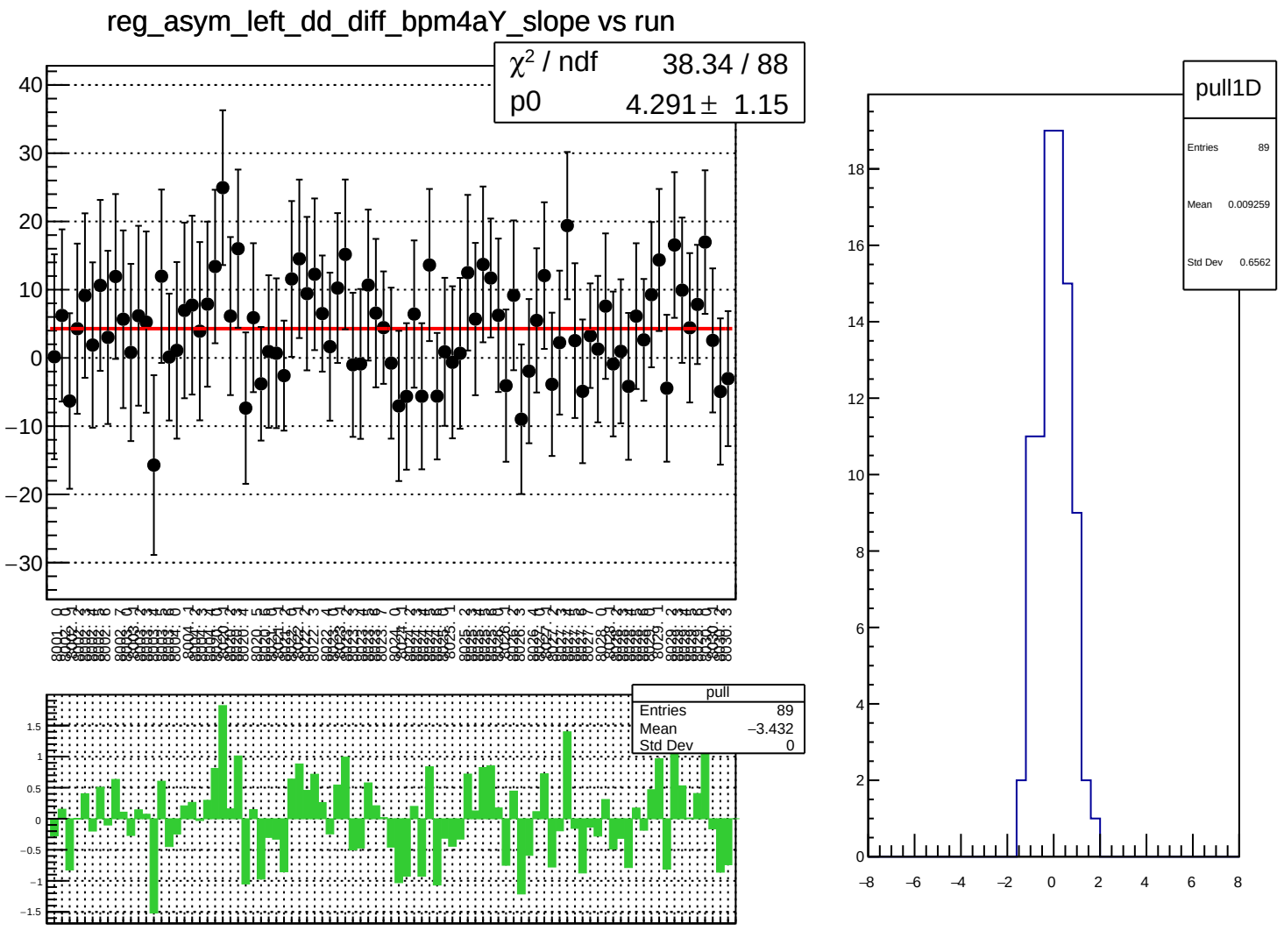

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 42.66 / 88
p0 5.235 ± 1.23
pull
Entries 89
Mean 305.4
Std Dev 0

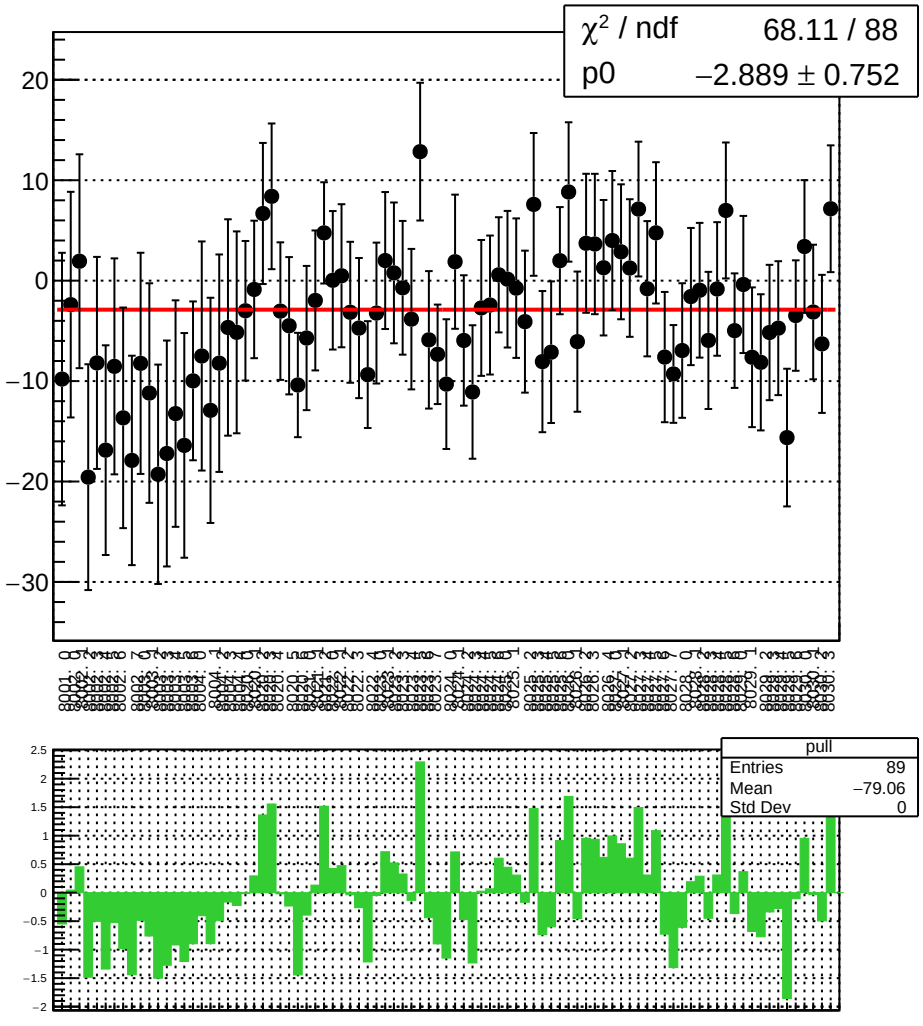

pull1D
Entries 89
Mean −0.006126
Std Dev 0.6923

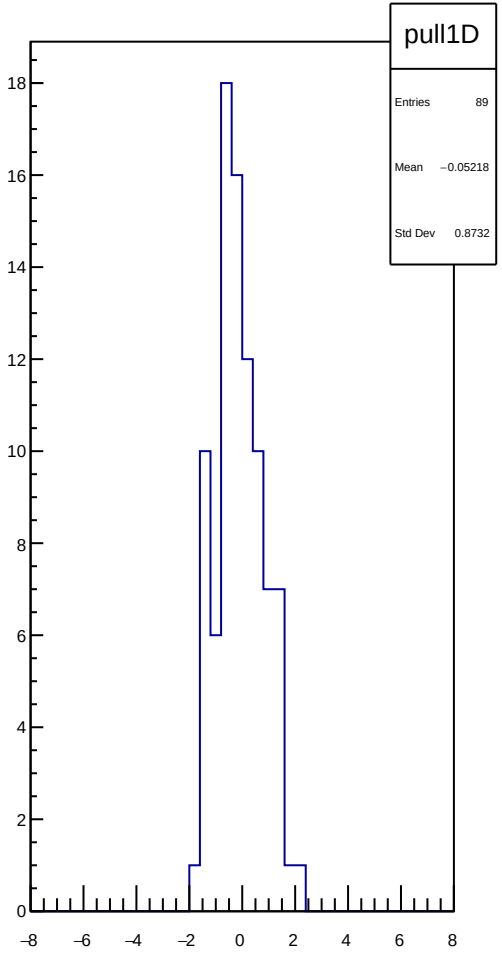

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 481.9 / 88
p0 −19.76 ± 0.0584
pull
Entries 89
Mean 133
Std Dev 0
pull1D
Entries 89
Mean −0.5534
Std Dev 2.1

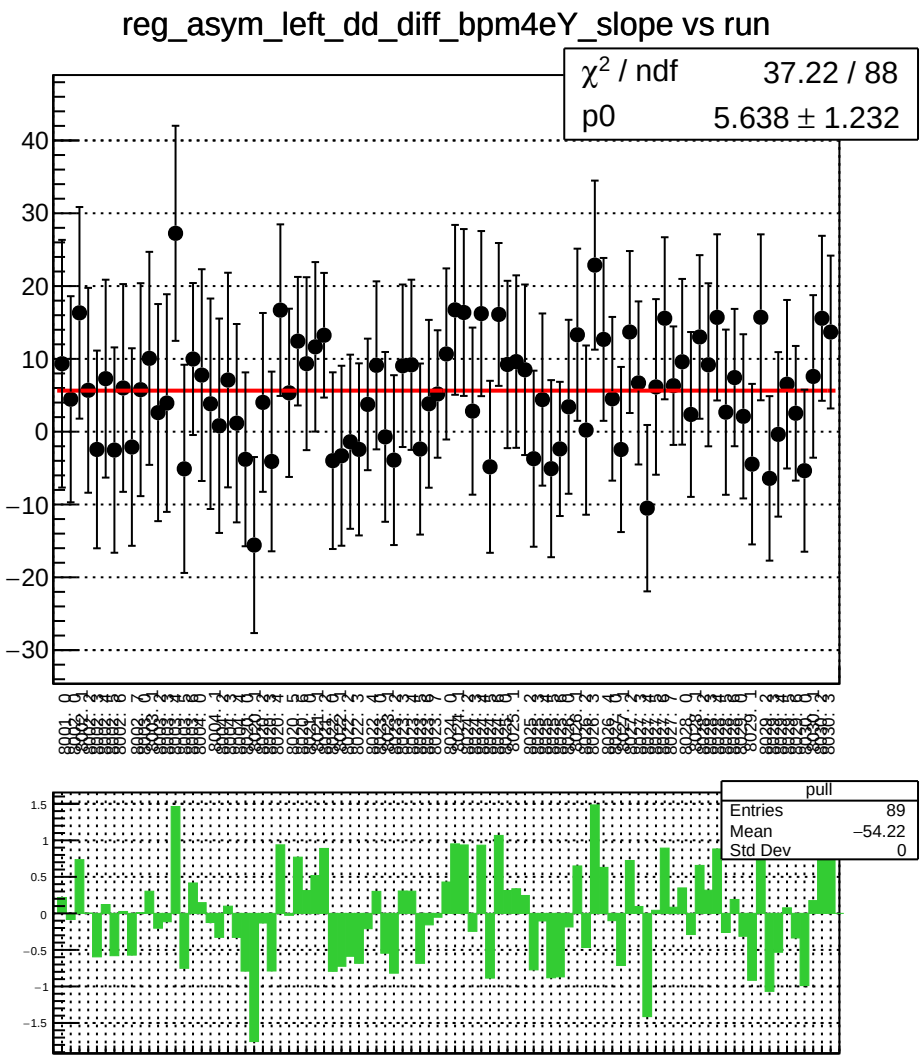

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 81.68 / 88
p0 −32.04 ± 0.7164
pull
Entries 89
Mean −44.98
Std Dev 0

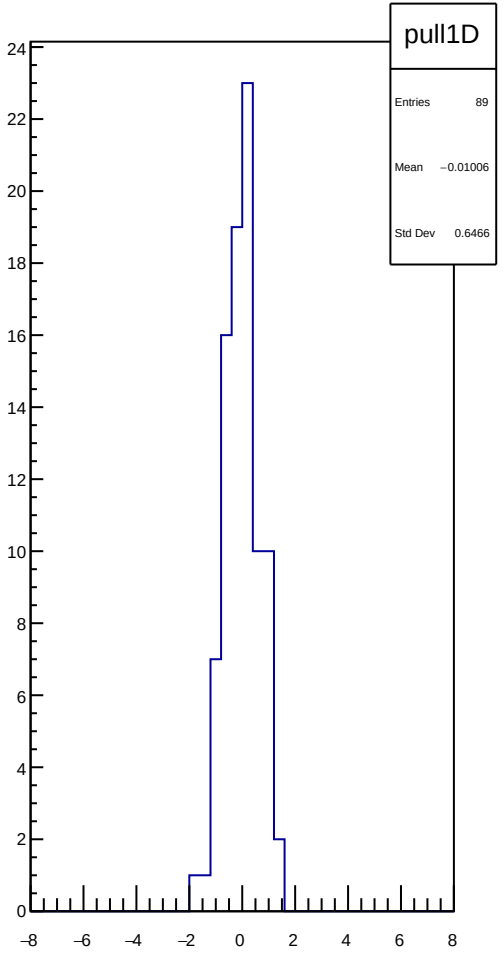

pull1D
Entries 89
Mean 0.09977
Std Dev 0.9528

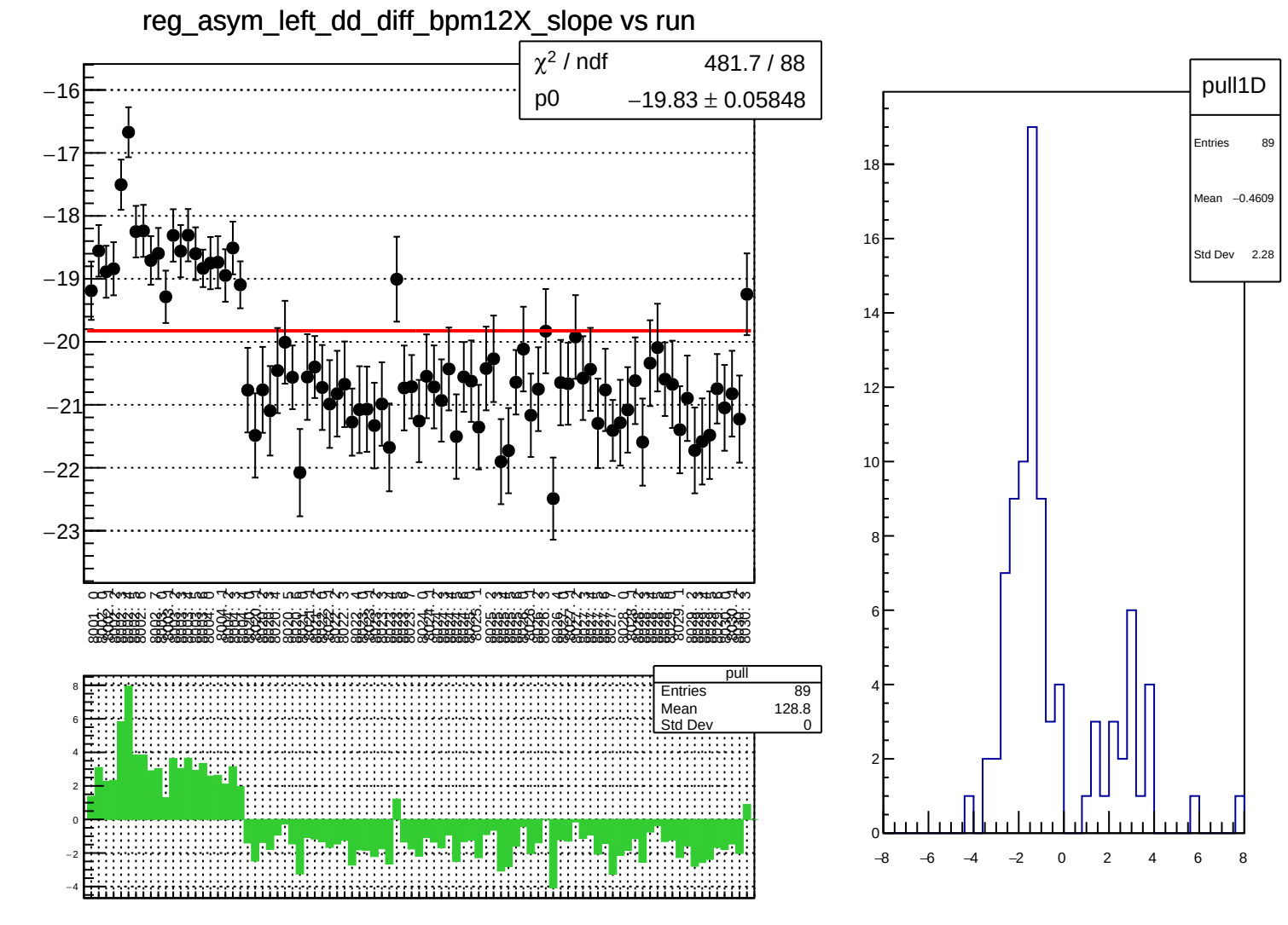

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 38.34 / 88
p0 4.291 ± 1.15
pull
Entries 89
Mean −3.432
Std Dev 0
pull1D
Entries 89
Mean 0.009259
Std Dev 0.6562

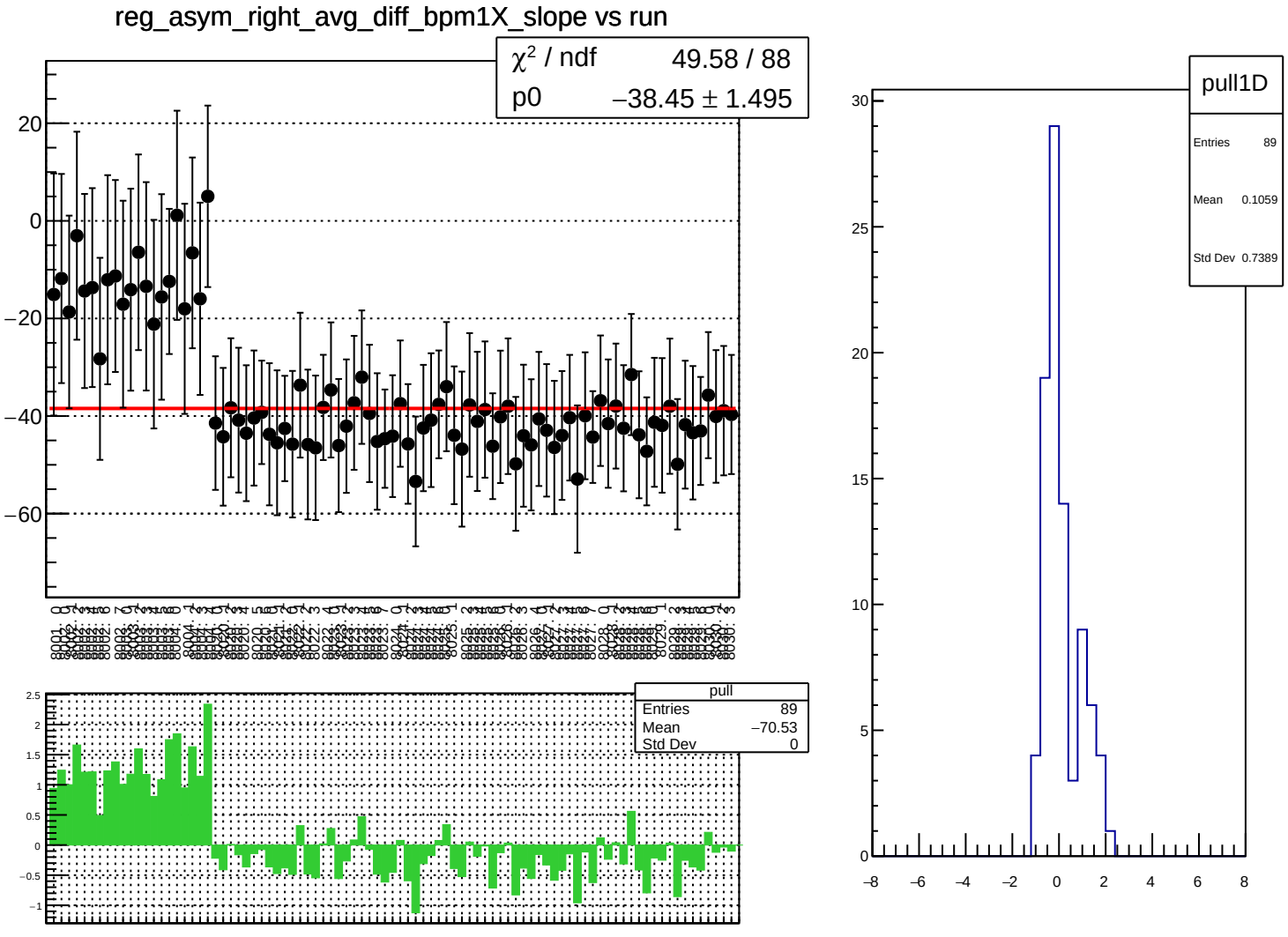

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 68.11 / 88
p0 −2.889 ± 0.752
pull
Entries 89
Mean −79.06
Std Dev 0

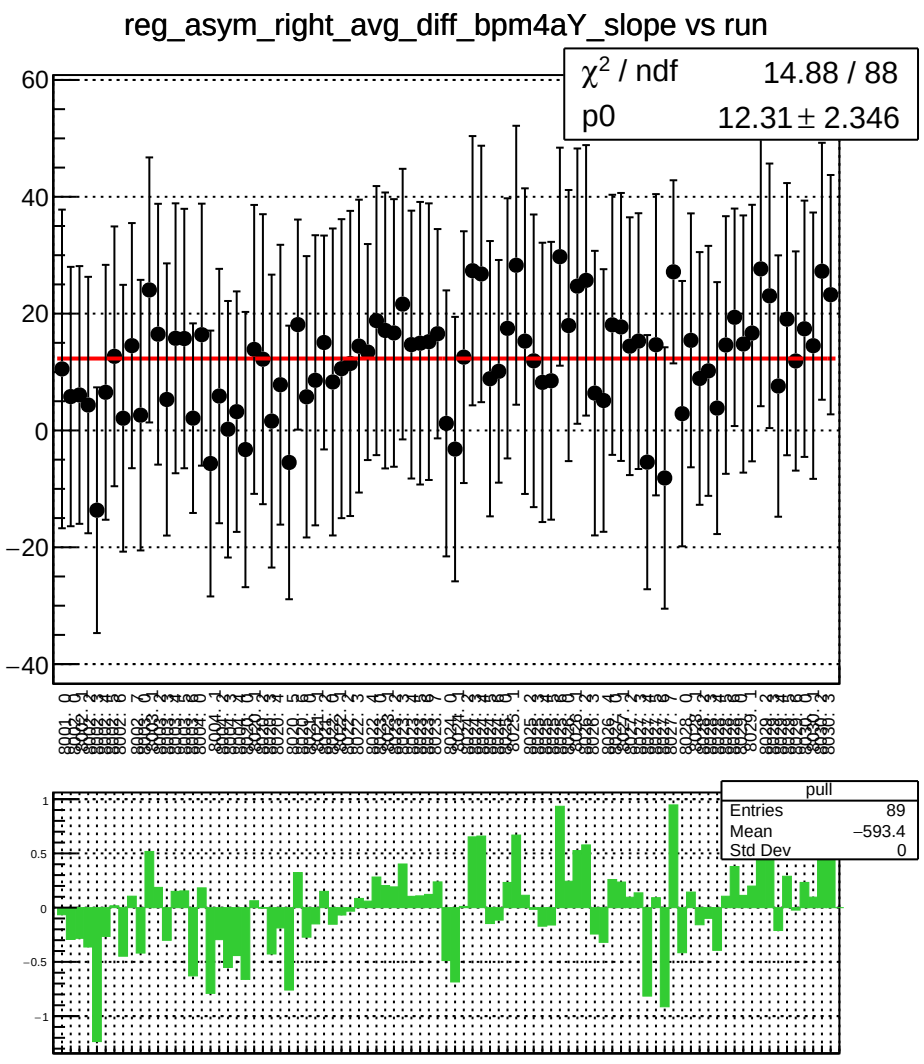

pull1D
Entries 89
Mean −0.05218
Std Dev 0.8732

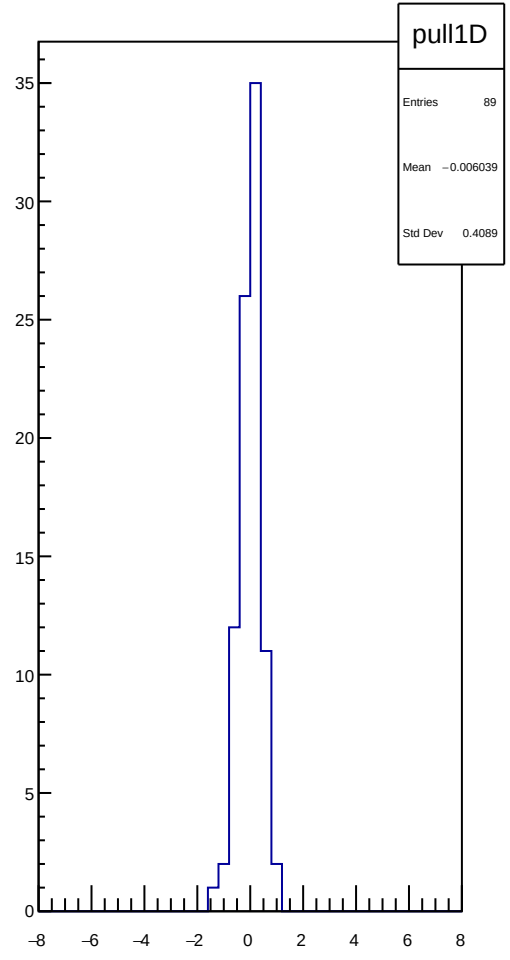

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 37.22 / 88
p0 5.638 ± 1.232
pull
Entries 89
Mean −54.22
Std Dev 0

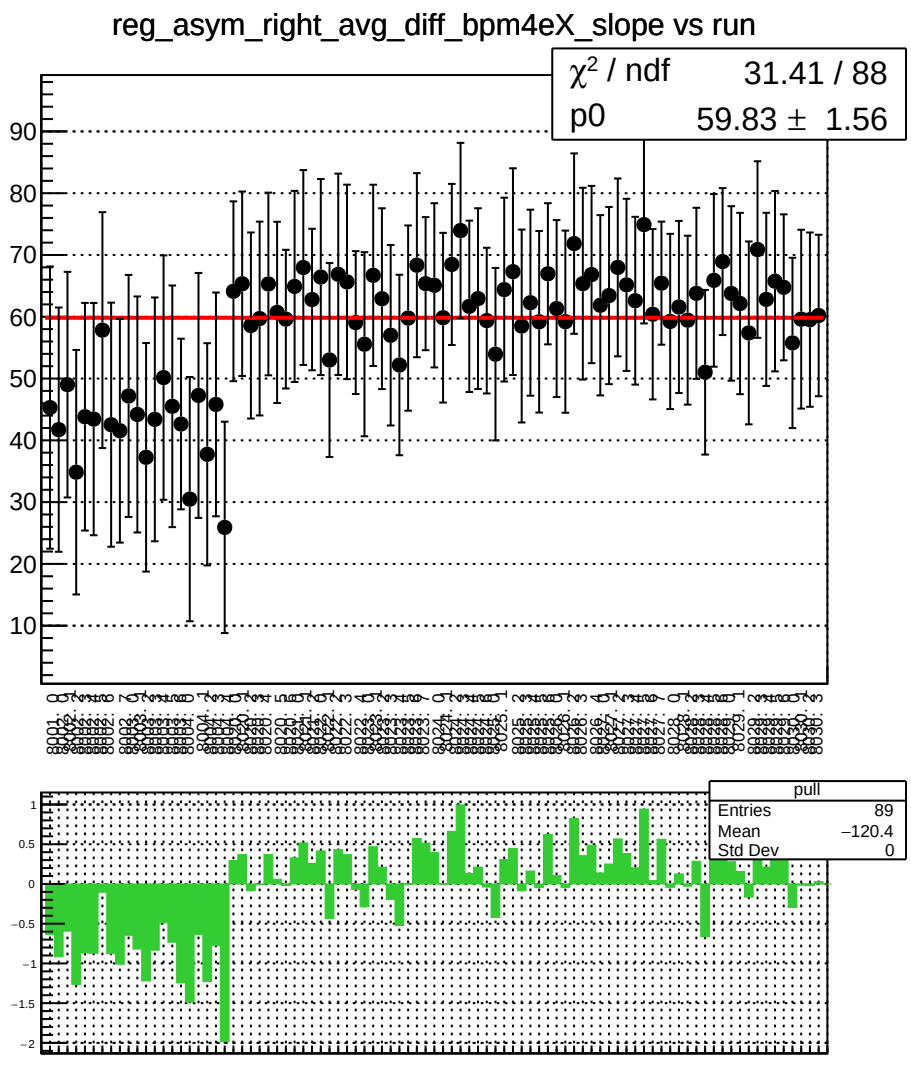

pull1D
Entries 89
Mean −0.01006
Std Dev 0.6466

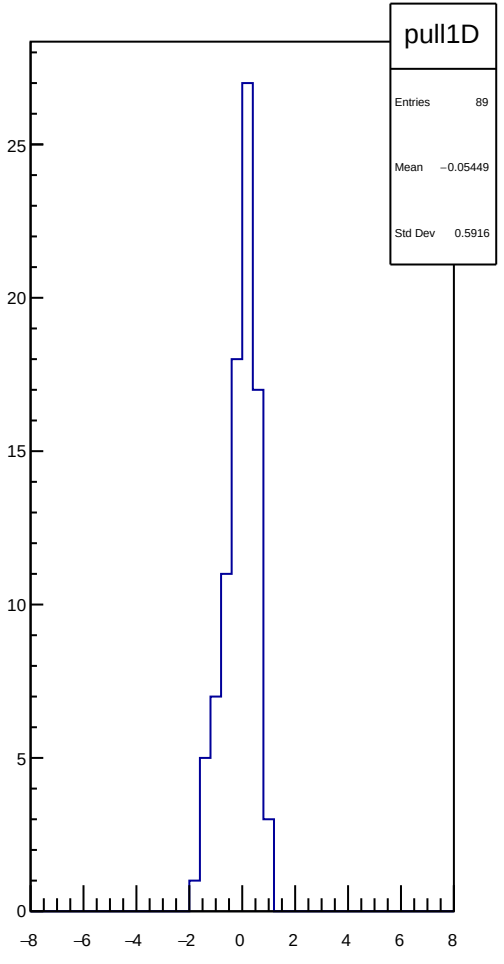

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 481.7 / 88
p0 −19.83 ± 0.05848
pull
Entries 89
Mean 128.8
Std Dev 0
pull1D
Entries 89
Mean −0.4609
Std Dev 2.28

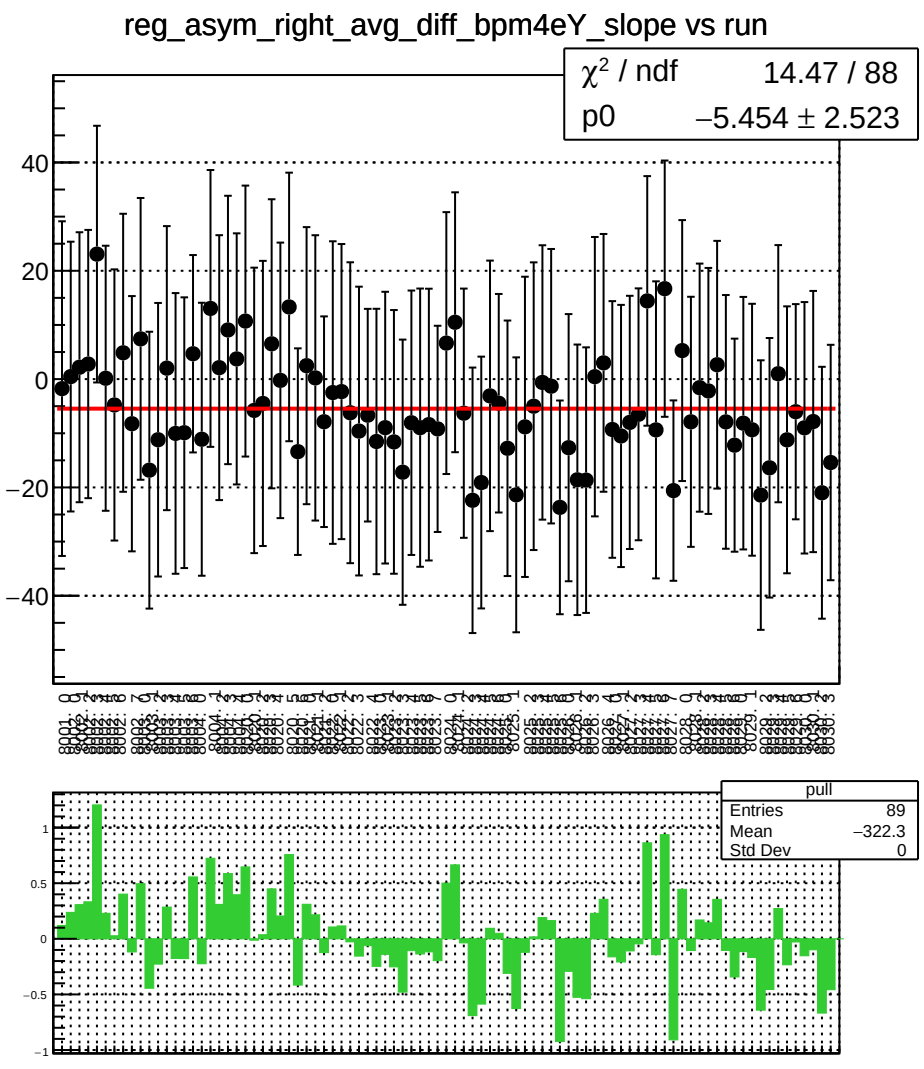

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 49.58 / 88
p0 −38.45 ± 1.495
pull
Entries 89
Mean −70.53
Std Dev 0
pull1D
Entries 89
Mean 0.1059
Std Dev 0.7389

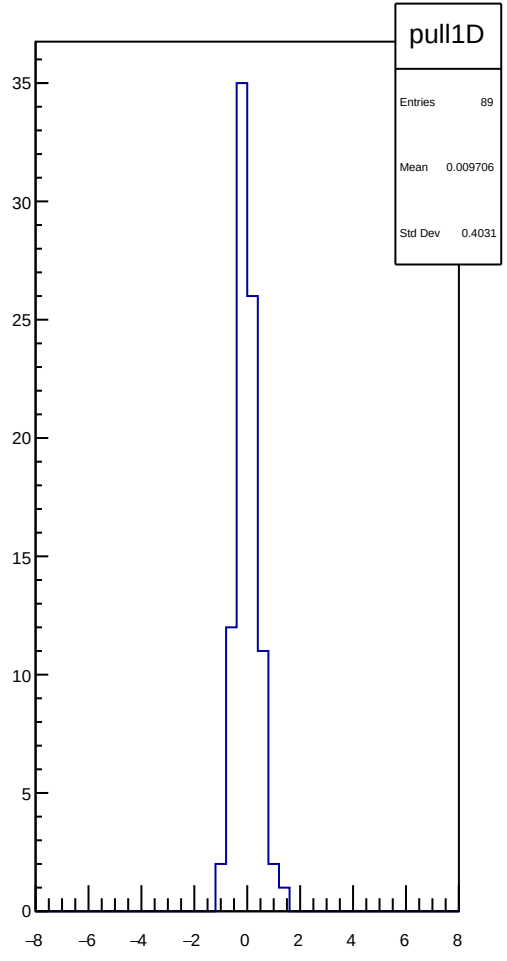

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 14.88 / 88
p0 12.31 ± 2.346
pull
Entries 89
Mean −593.4
Std Dev 0

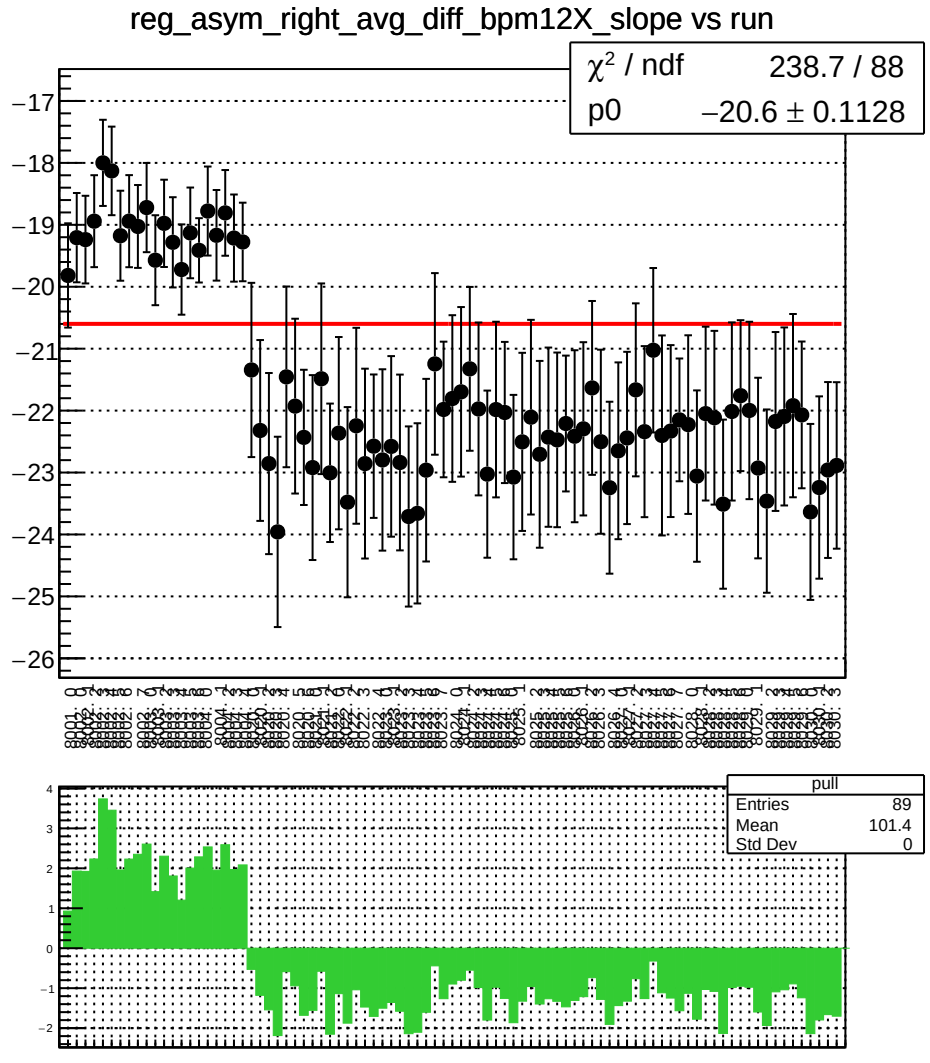

pull1D
Entries 89
Mean −0.006039
Std Dev 0.4089

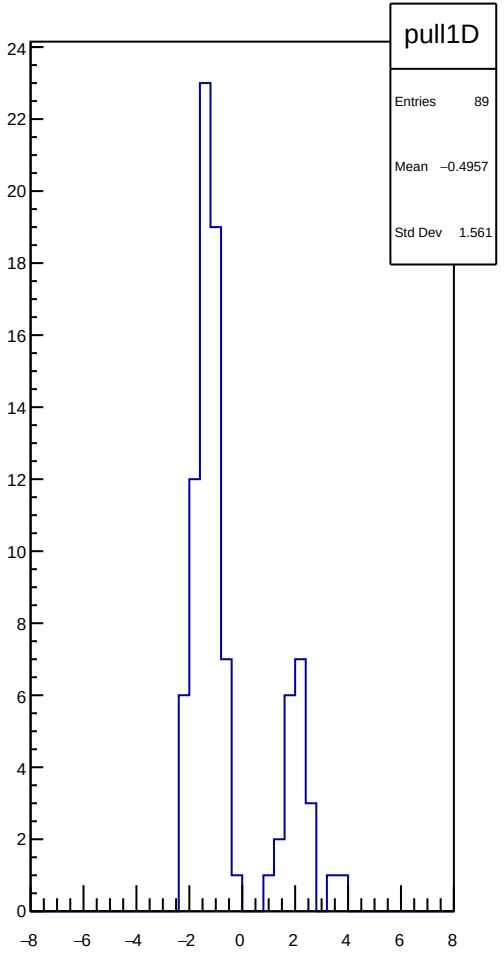

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 31.41 / 88
p0 59.83 ± 1.56
pull
Entries 89
Mean −120.4
Std Dev 0

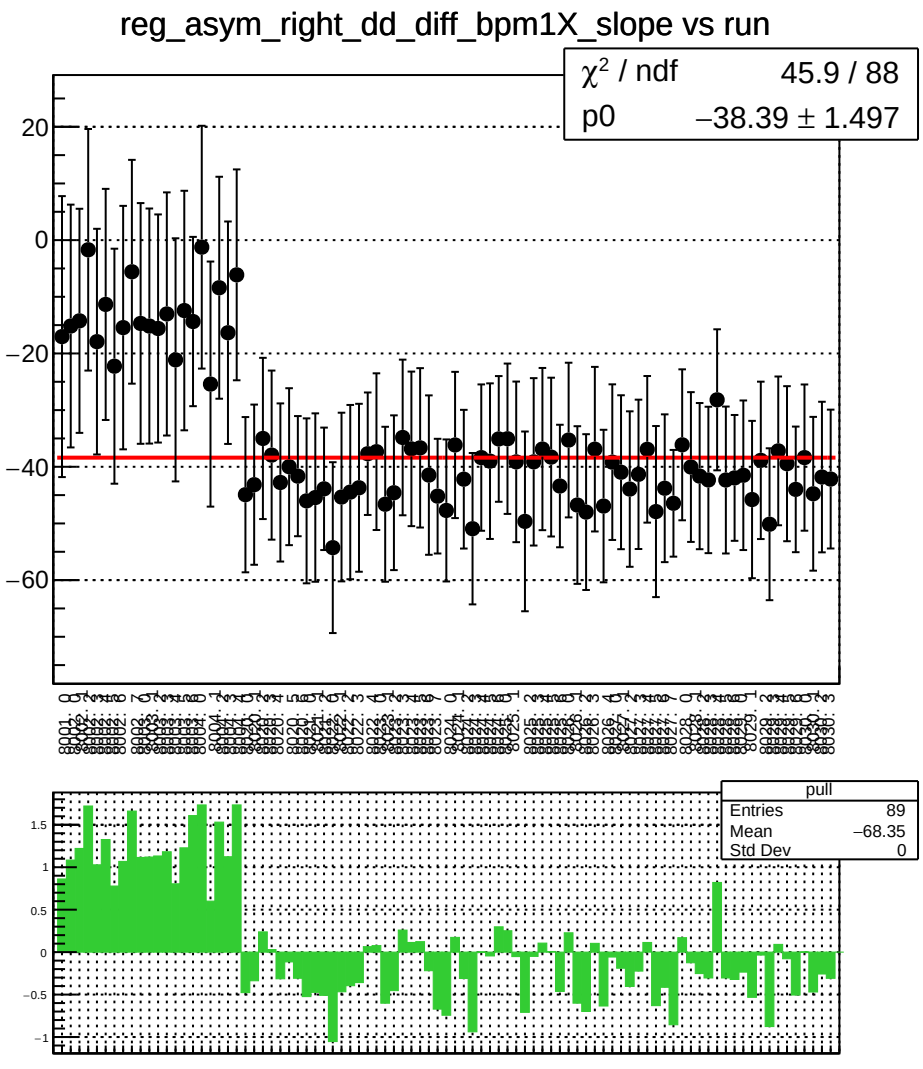

pull1D
Entries 89
Mean −0.05449
Std Dev 0.5916

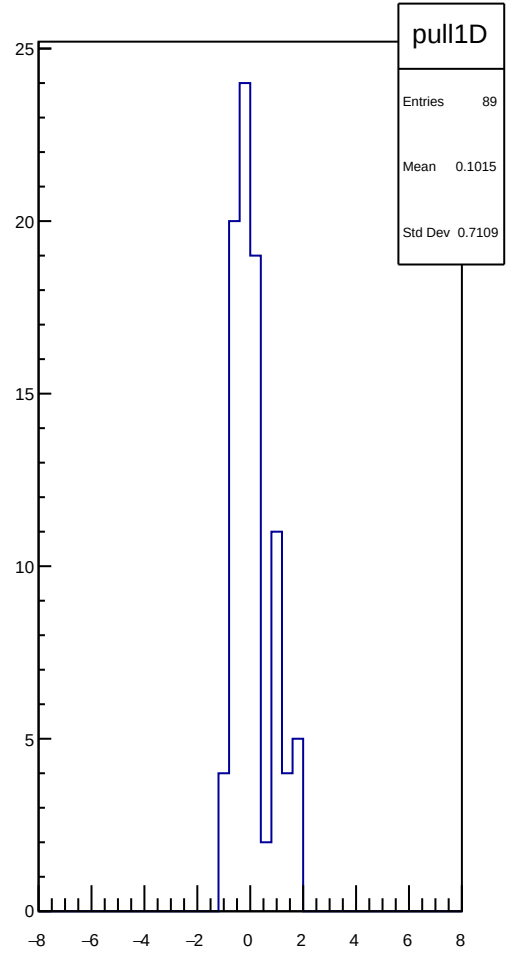

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 14.47 / 88
p0 −5.454 ± 2.523
40
20
0
−20
−40
pull
Entries 89
Mean −322.3
Std Dev 0
1
0.5
0
−0.5
−1

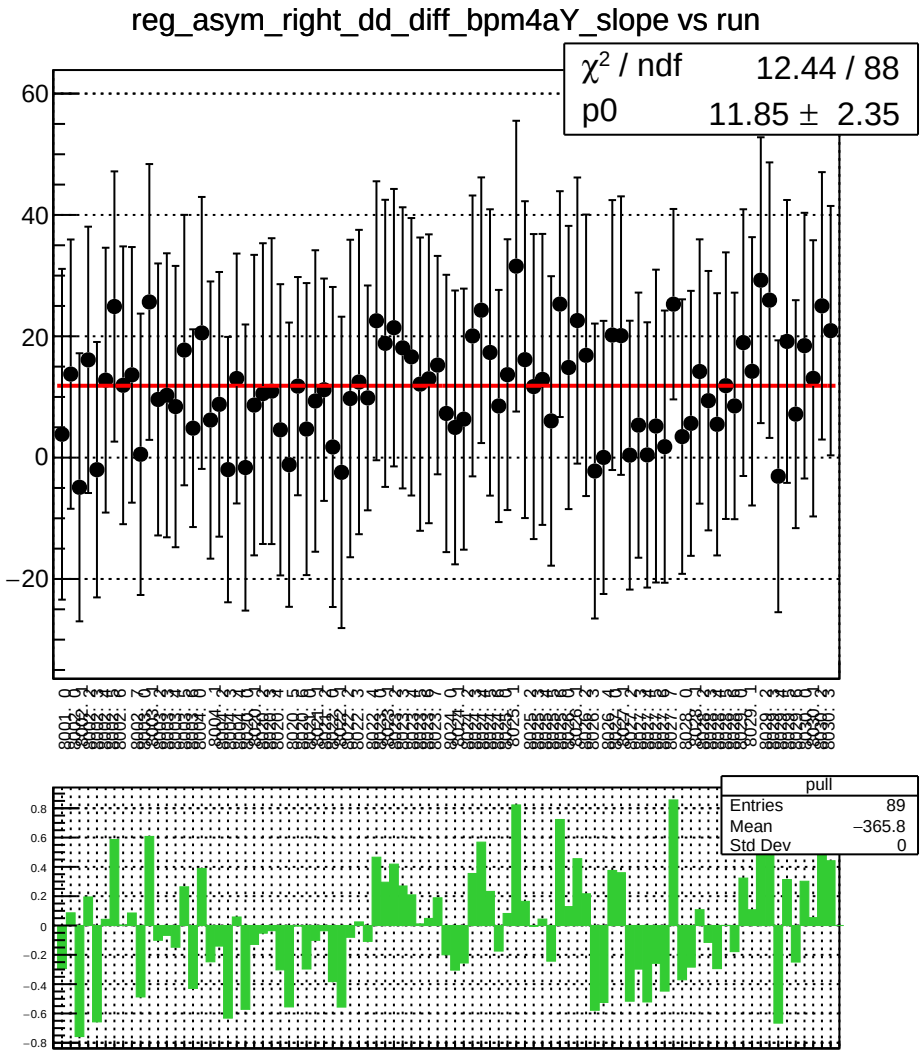

pull1D
Entries 89
Mean 0.009706
Std Dev 0.4031
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

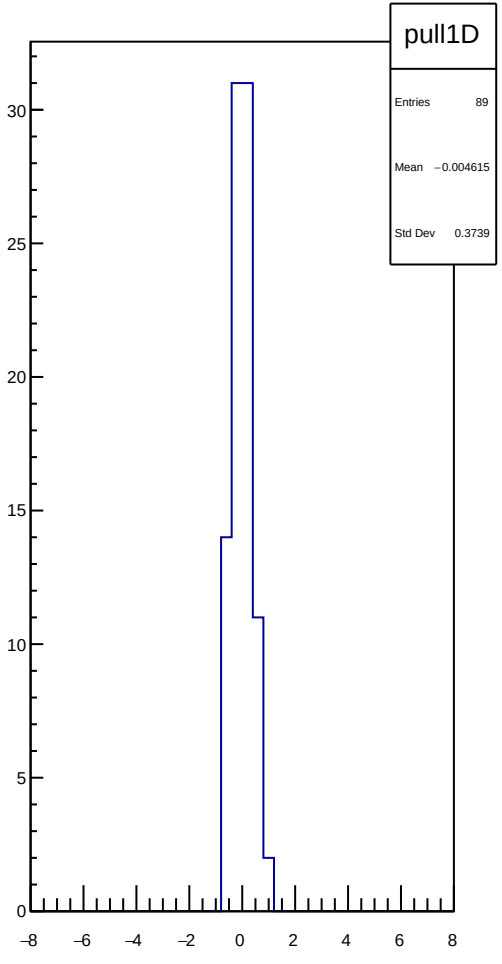

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 238.7 / 88
p0 −20.6 ± 0.1128
pull
Entries 89
Mean 101.4
Std Dev 0

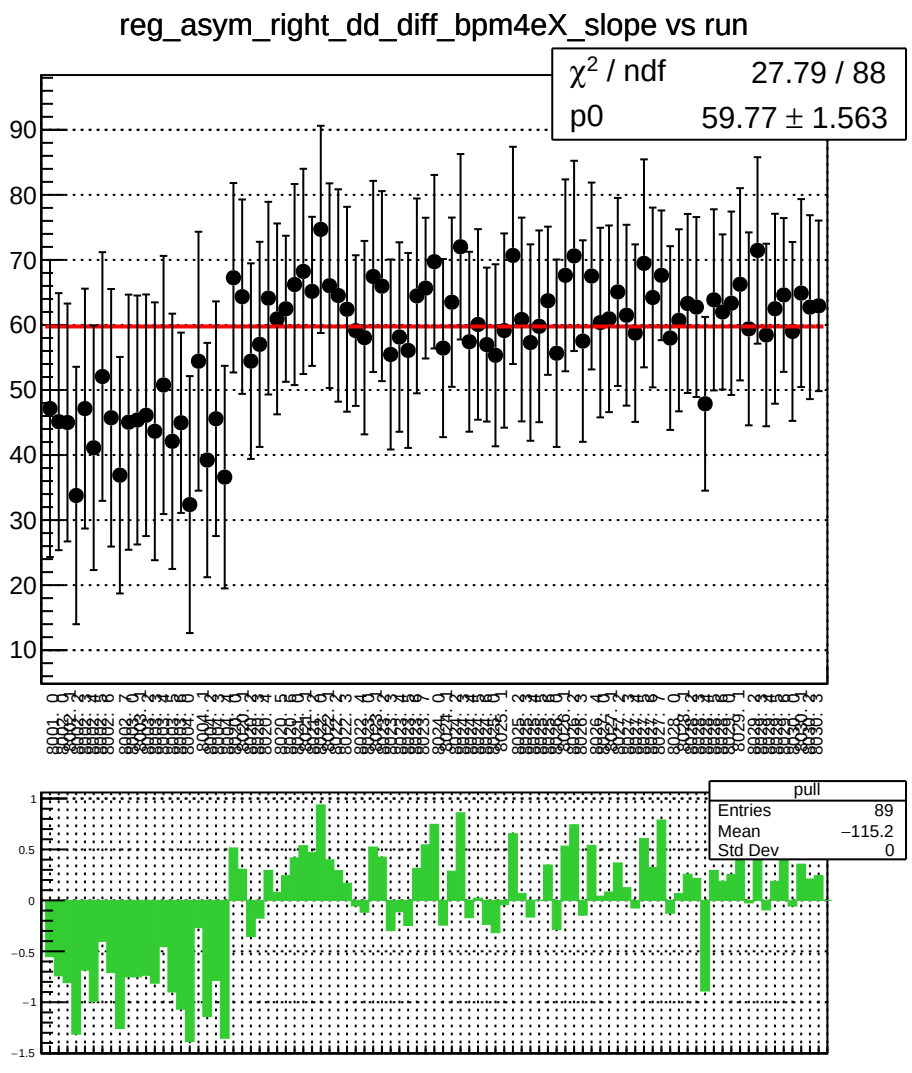

pull1D
Entries 89
Mean −0.4957
Std Dev 1.561

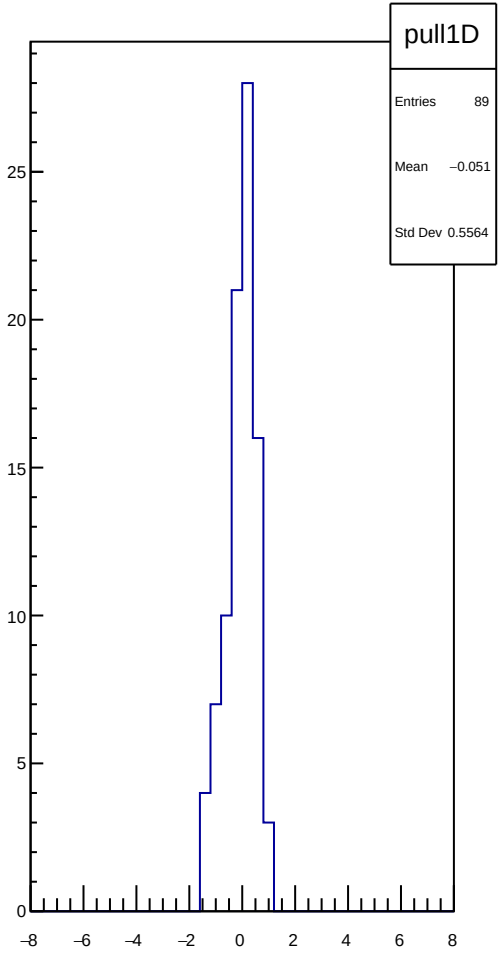

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 45.9 / 88
p0 −38.39 ± 1.497
pull
Entries 89
Mean −68.35
Std Dev 0

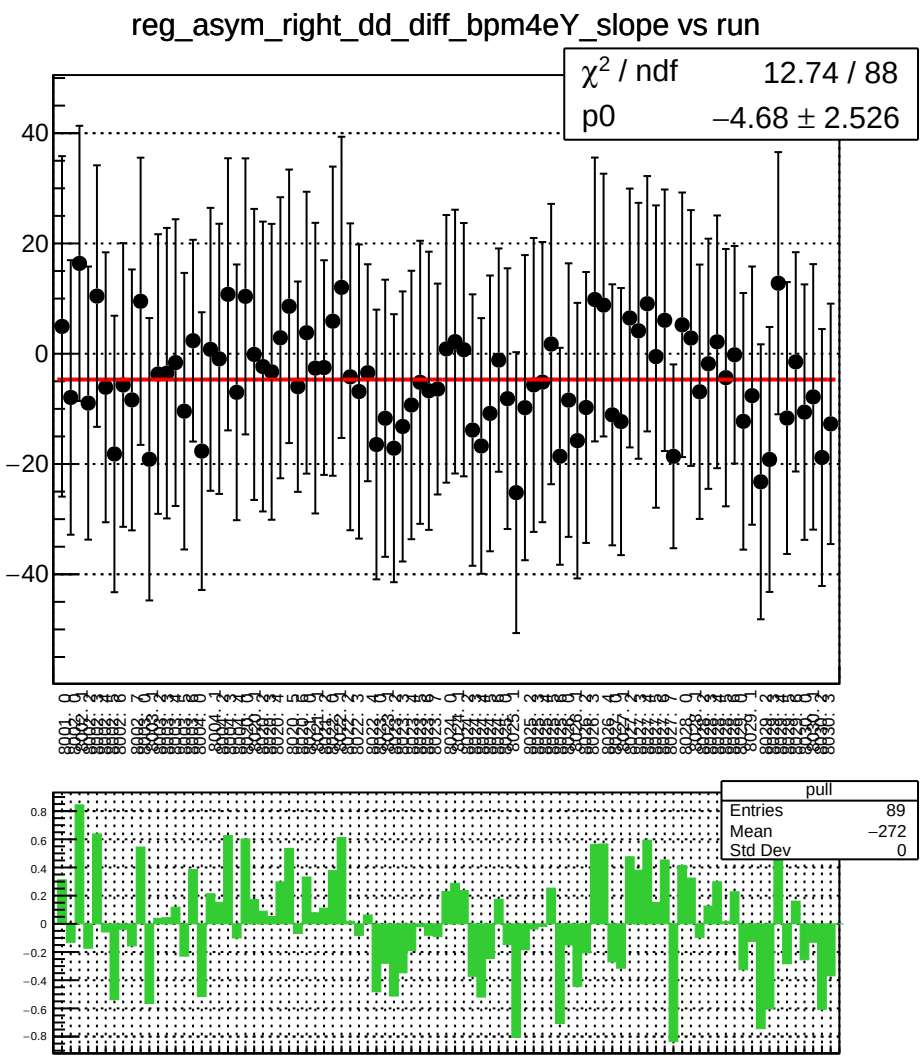

pull1D
Entries 89
Mean 0.1015
Std Dev 0.7109

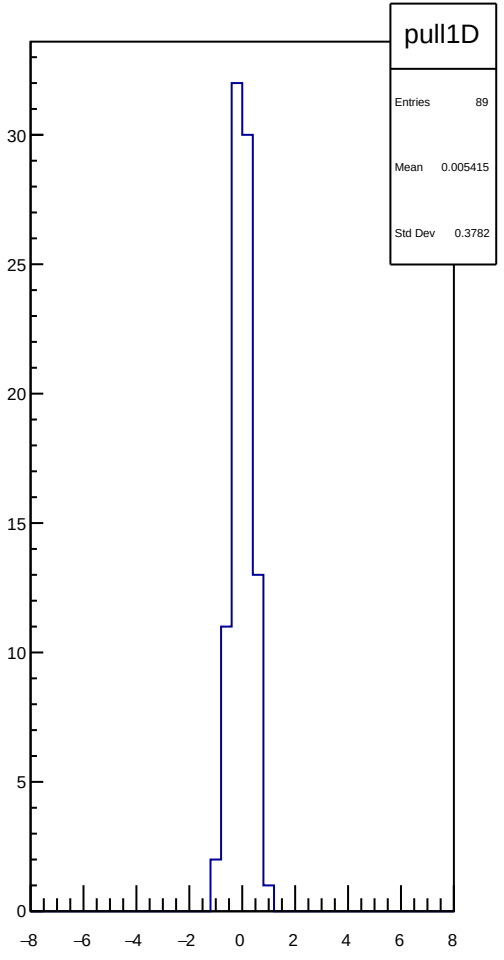

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 12.44 / 88
p0 11.85 ± 2.35
pull
Entries 89
Mean −365.8
Std Dev 0

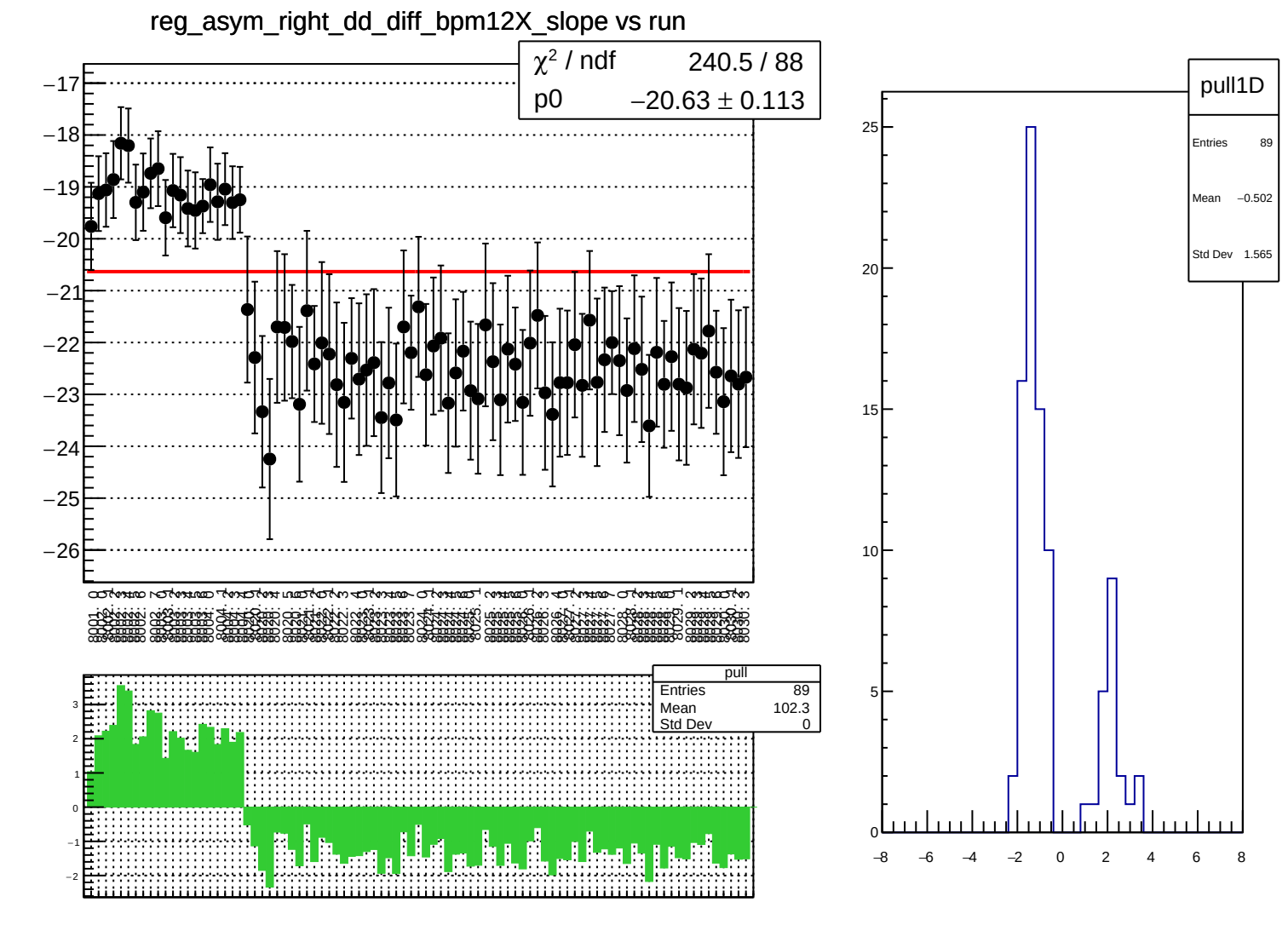

pull1D
Entries 89
Mean −0.004615
Std Dev 0.3739

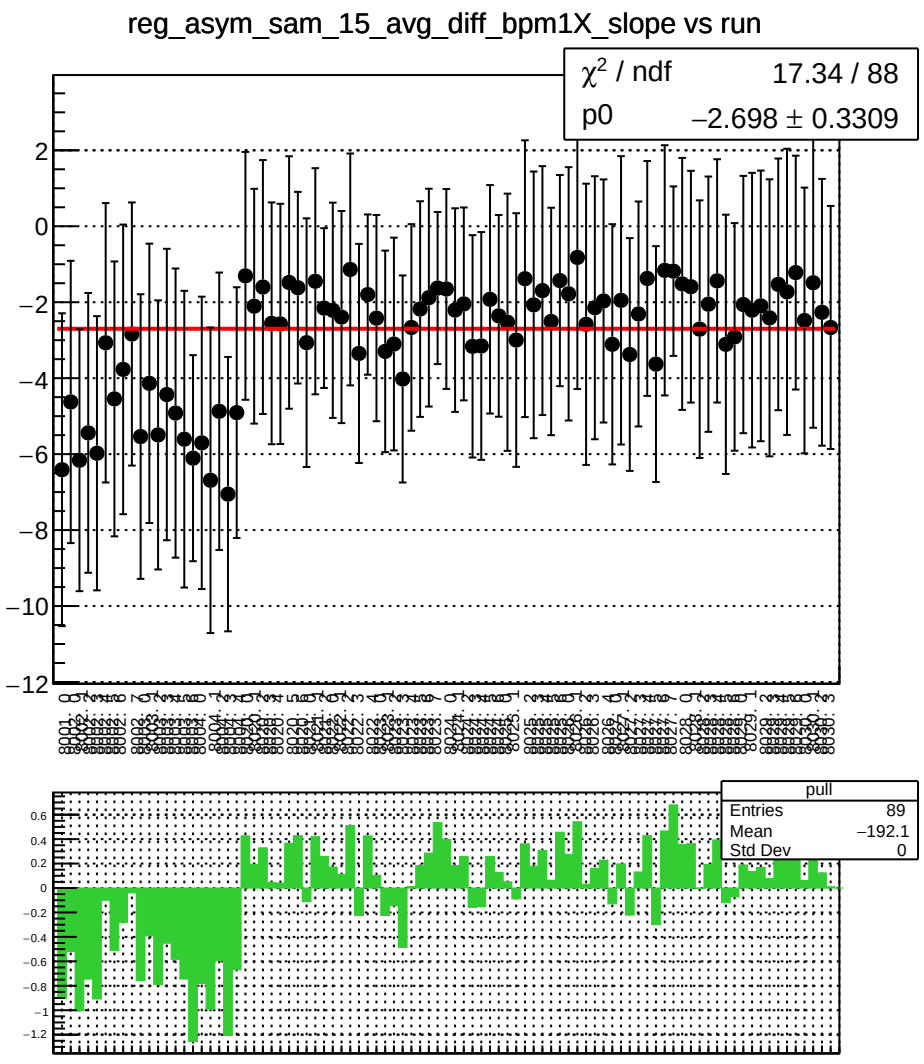

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 27.79 / 88
p0 59.77 ± 1.563
pull
Entries 89
Mean −115.2
Std Dev 0

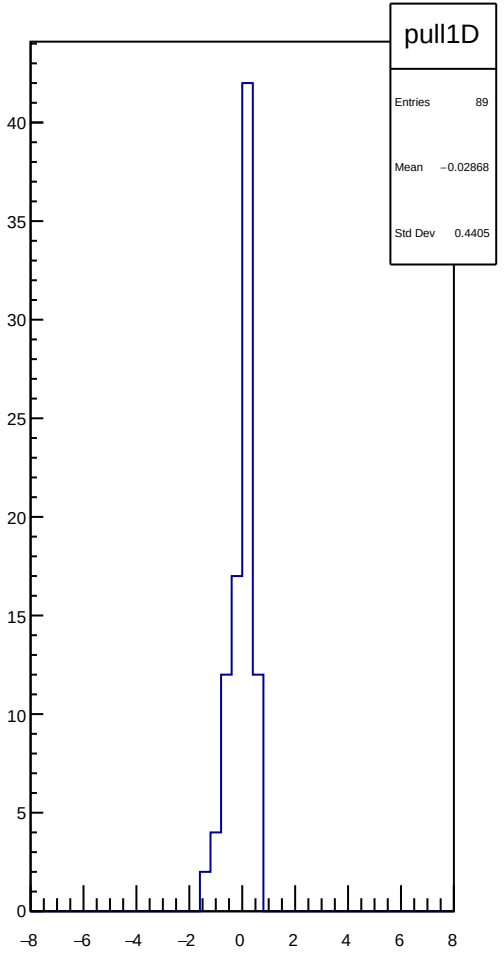

pull1D
Entries 89
Mean −0.051
Std Dev 0.5564

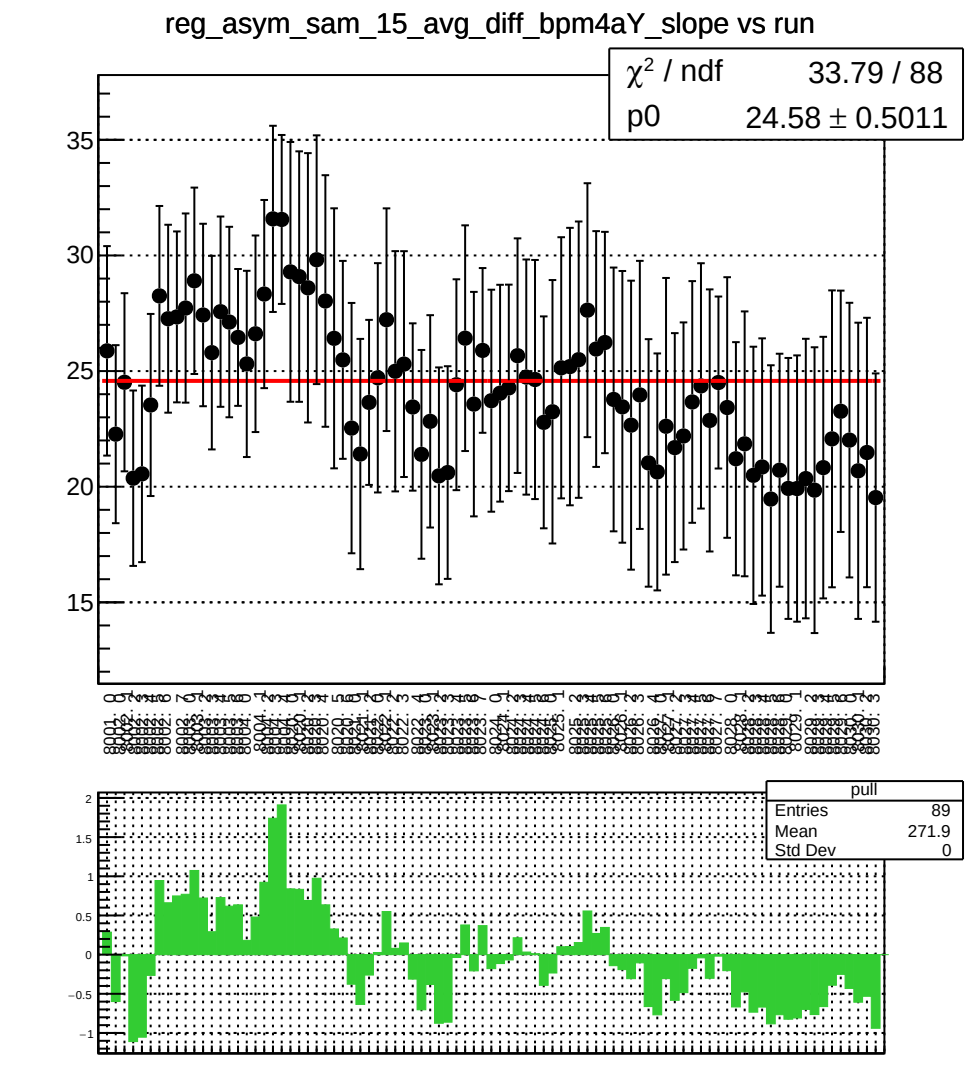

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.74 / 88
p0 −4.68 ± 2.526
40
20
0
−20
−40
pull
Entries 89
Mean −272
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

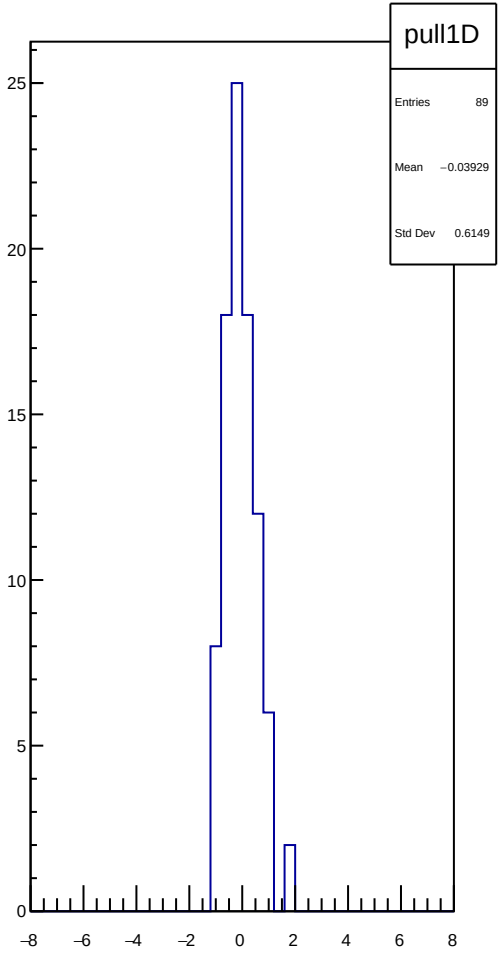

pull1D
Entries 89
Mean 0.005415
Std Dev 0.3782
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

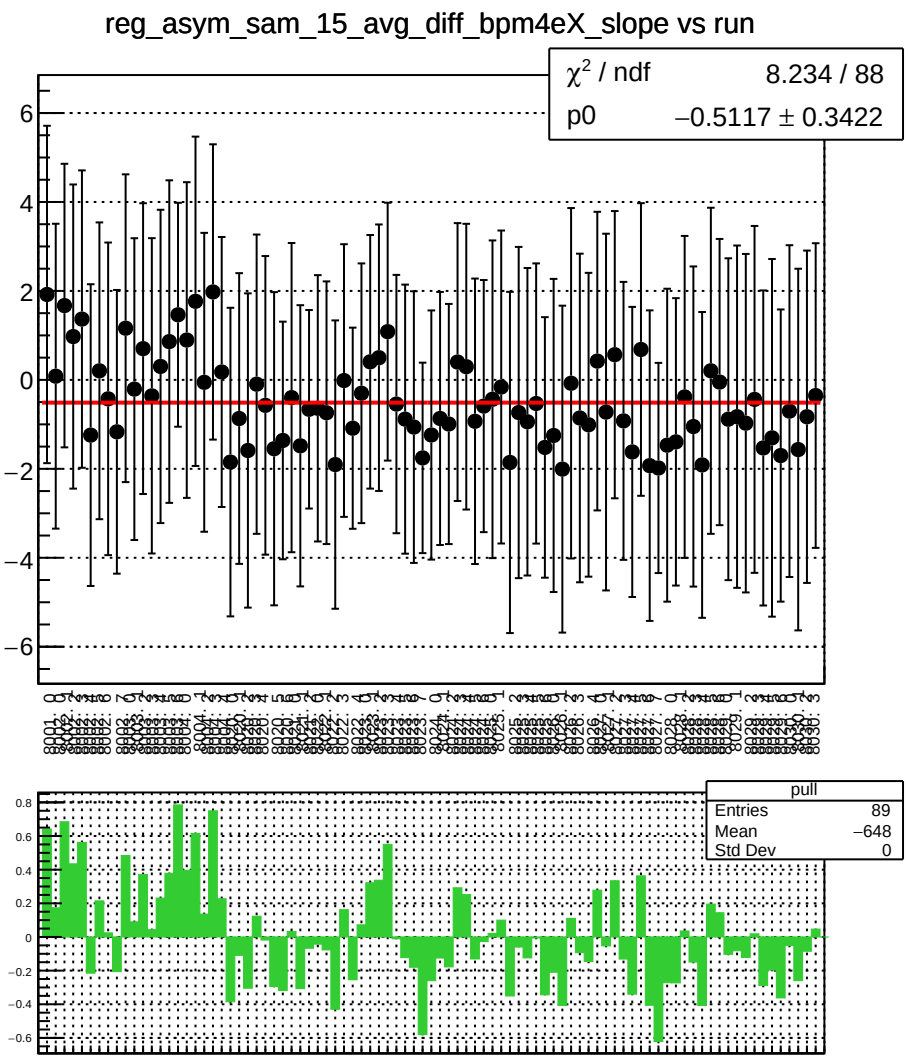

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 240.5 / 88
p0 −20.63 ± 0.113
pull
Entries 89
Mean 102.3
Std Dev 0
pull1D
Entries 89
Mean −0.502
Std Dev 1.565

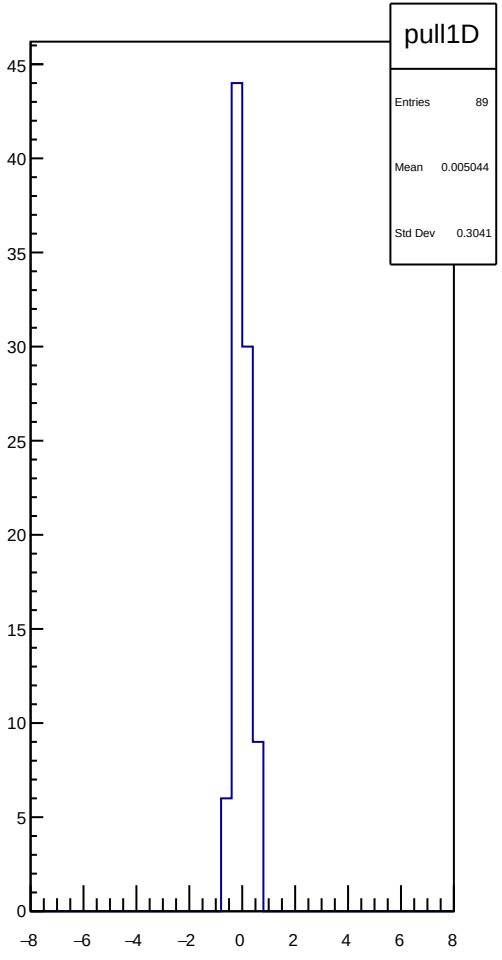

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 17.34 / 88
p0 −2.698 ± 0.3309
pull
Entries 89
Mean −192.1
Std Dev 0

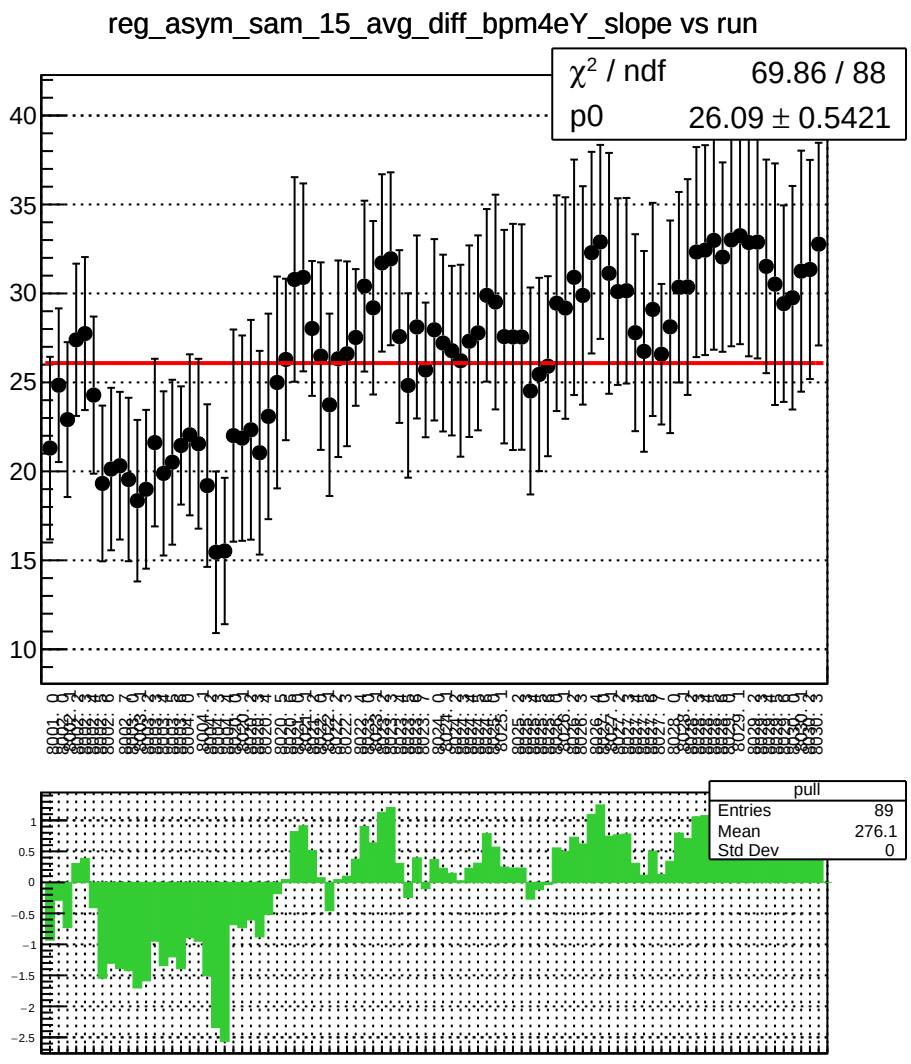

pull1D
Entries 89
Mean −0.02868
Std Dev 0.4405

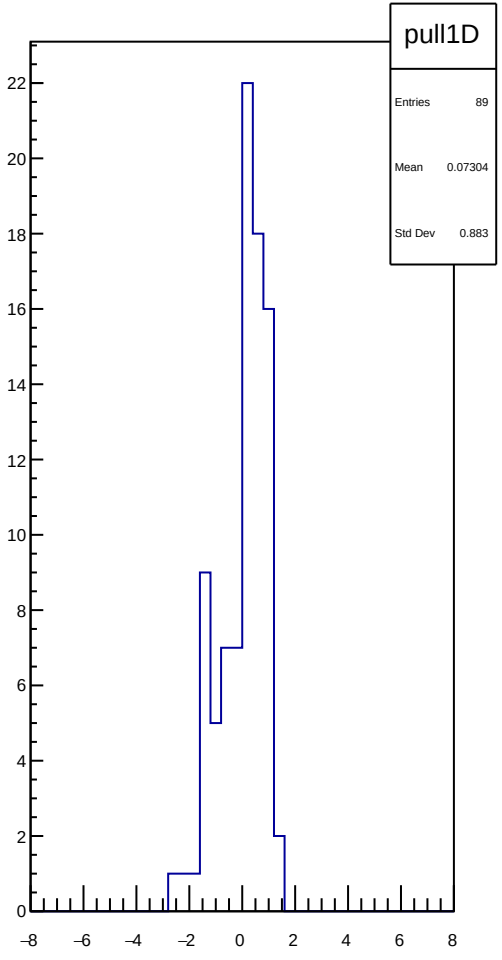

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 33.79 / 88
p0 24.58 ± 0.5011
pull
Entries 89
Mean 271.9
Std Dev 0

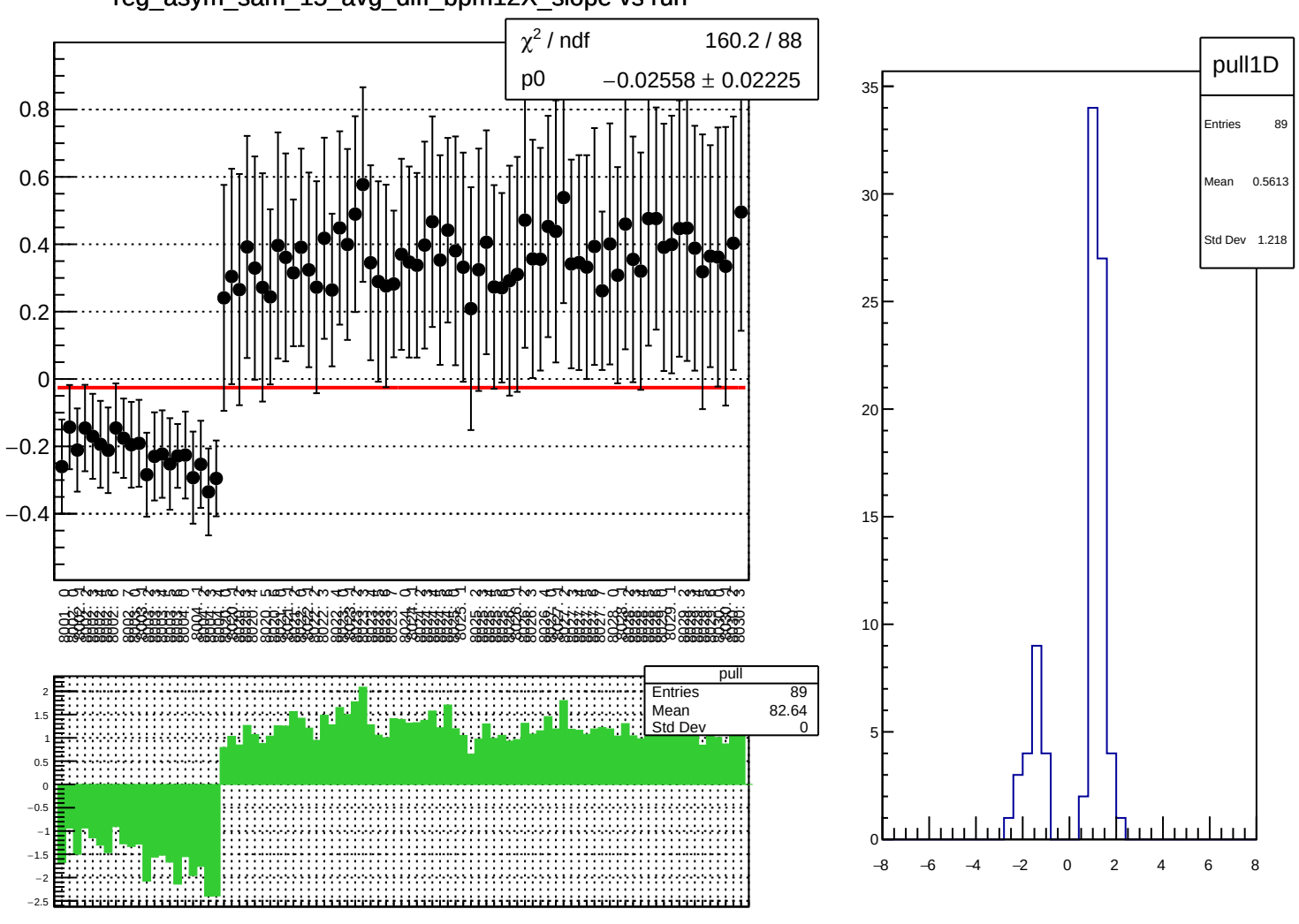

pull1D
Entries 89
Mean −0.03929
Std Dev 0.6149

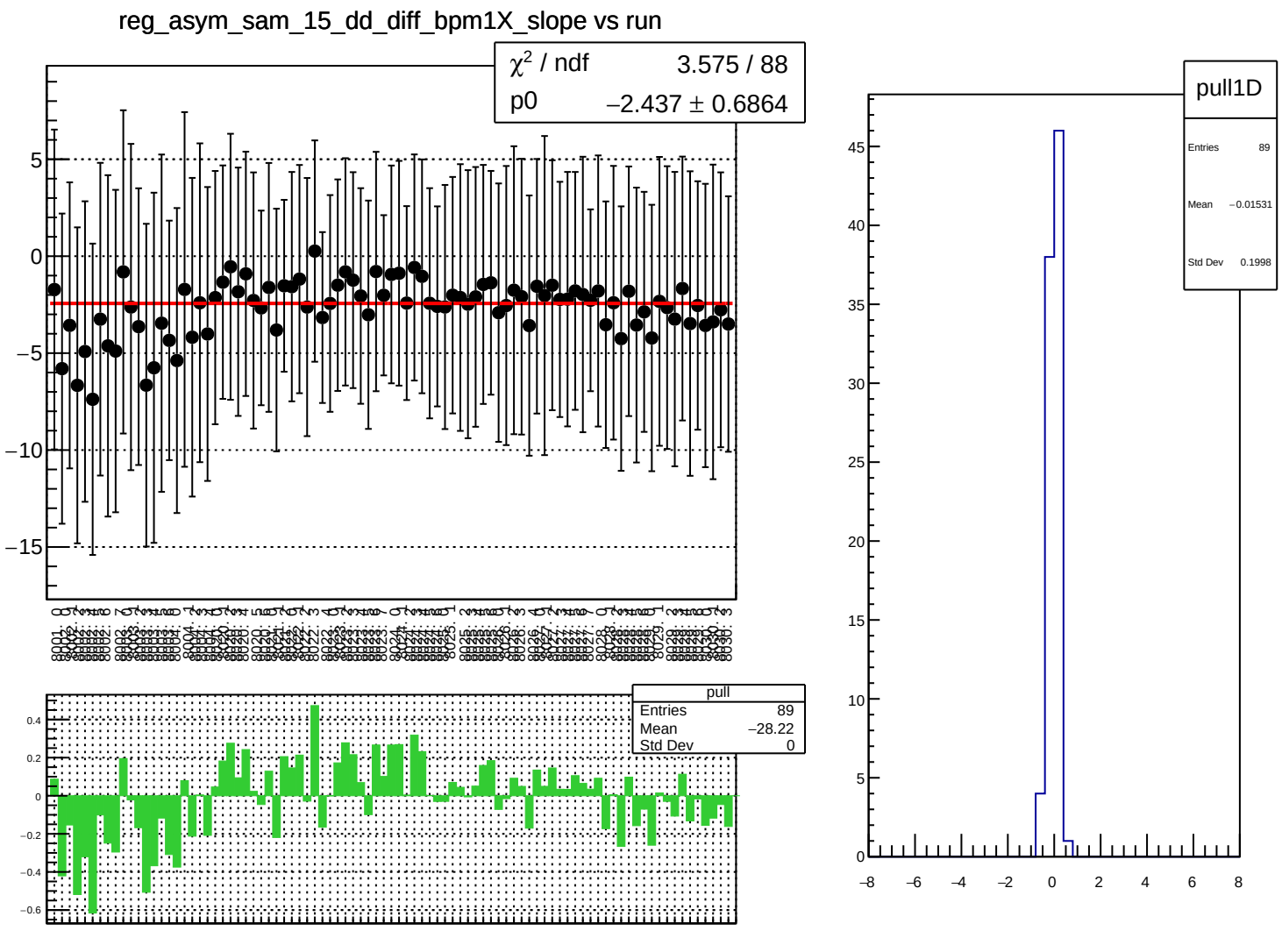

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.234 / 88
p0 −0.5117 ± 0.3422
pull
Entries 89
Mean −648
Std Dev 0

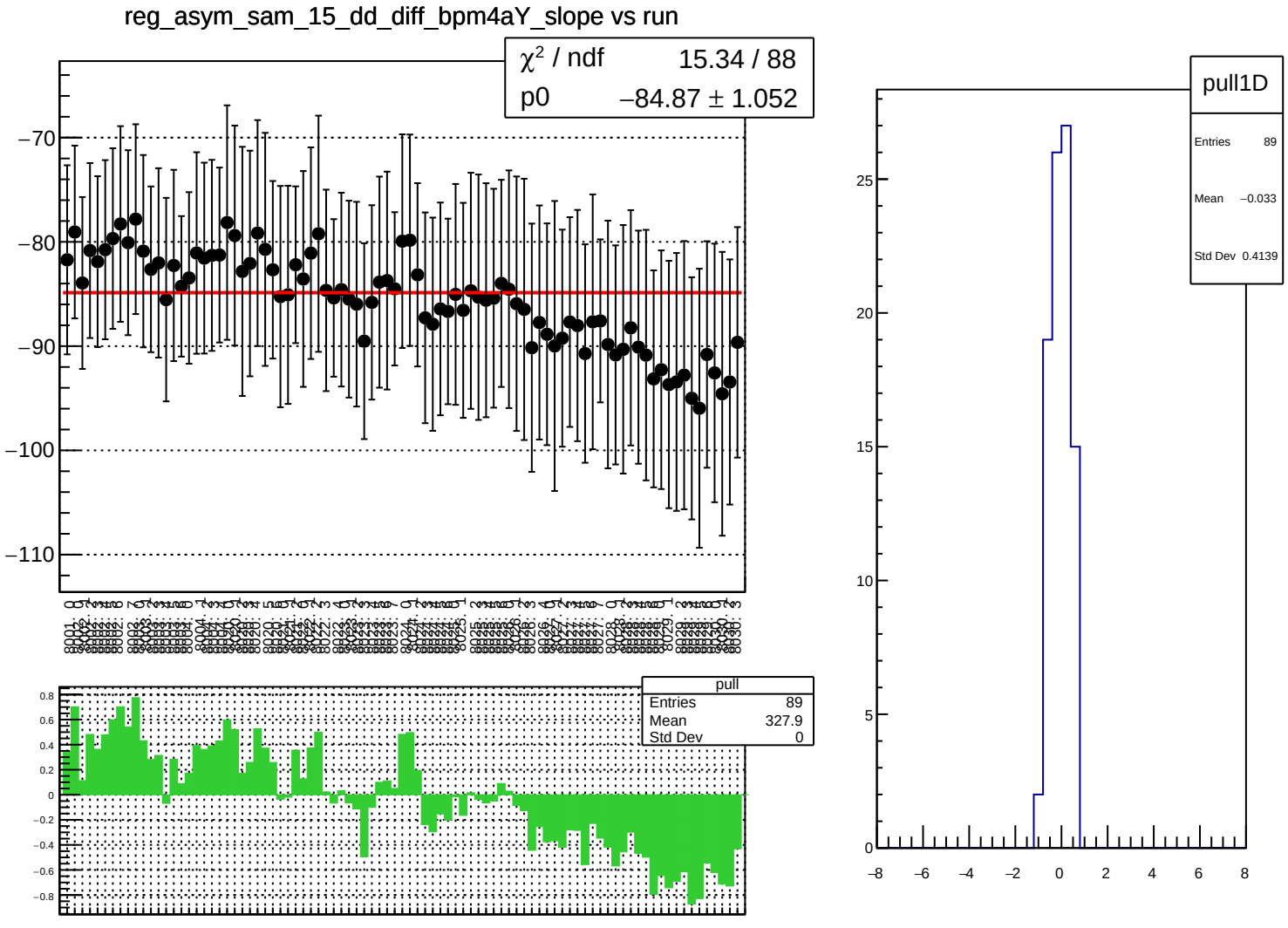

pull1D
Entries 89
Mean 0.005044
Std Dev 0.3041

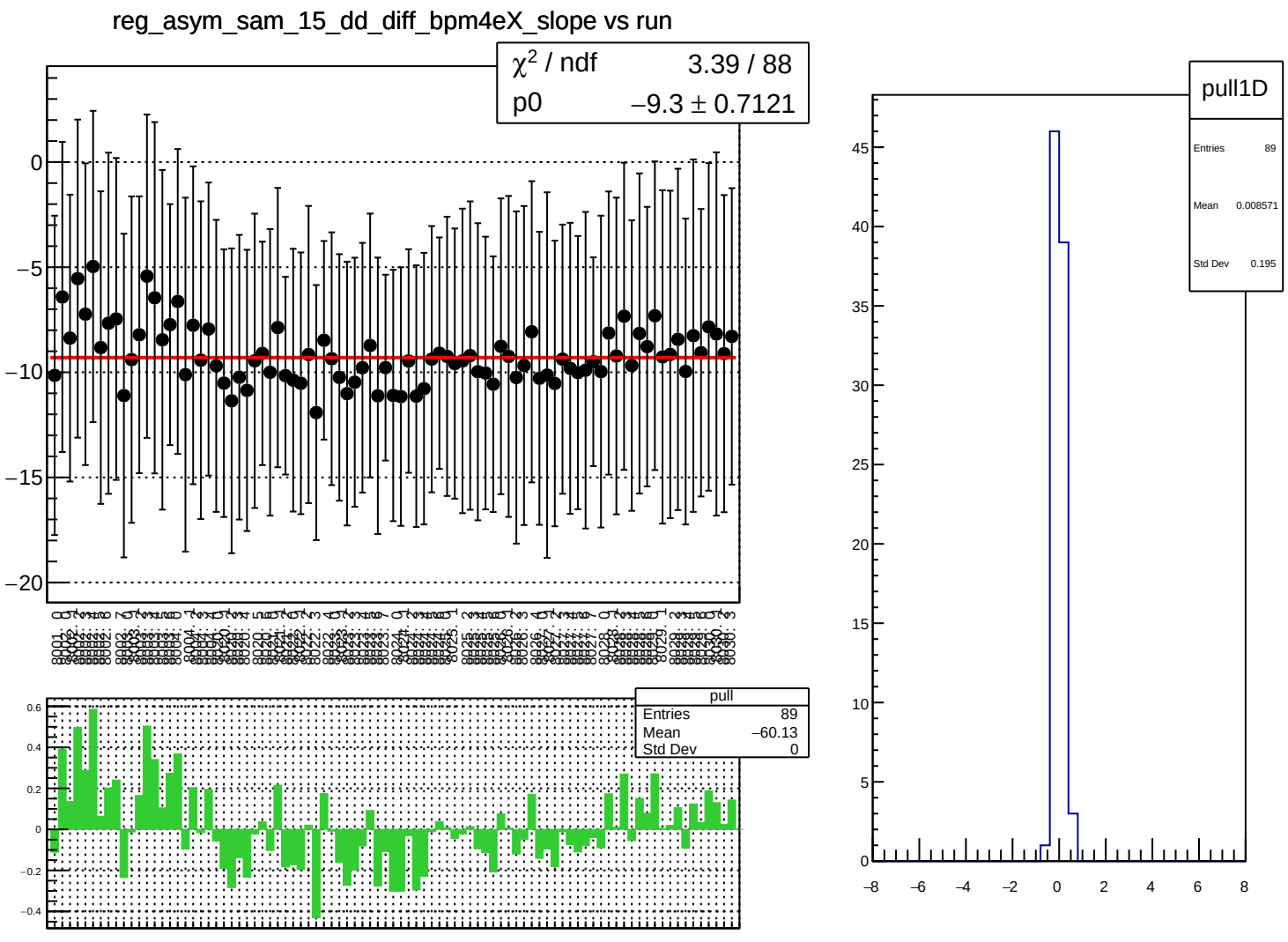

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 69.86 / 88
p0 26.09 ± 0.5421
pull
Entries 89
Mean 276.1
Std Dev 0

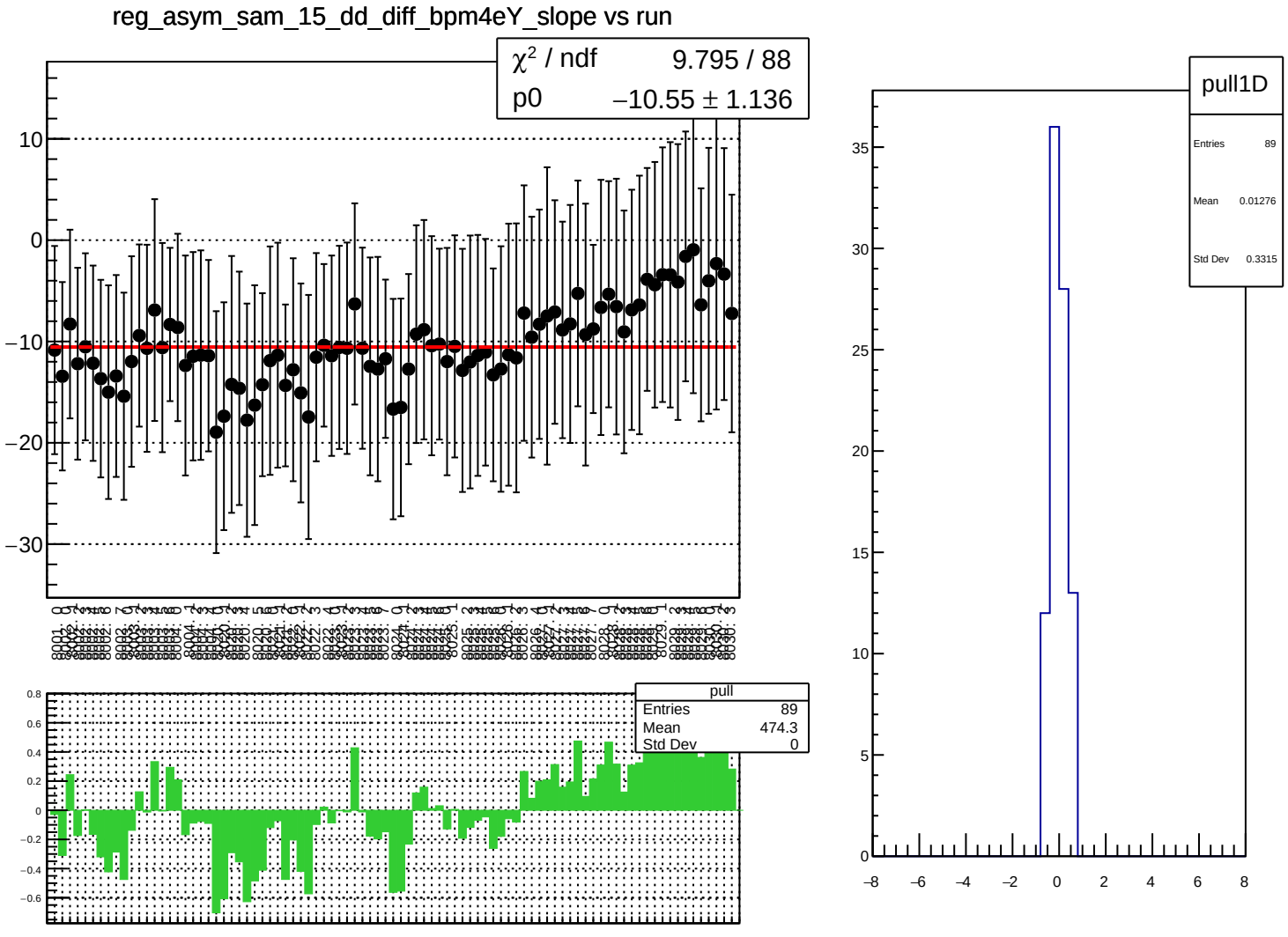

pull1D
Entries 89
Mean 0.07304
Std Dev 0.883

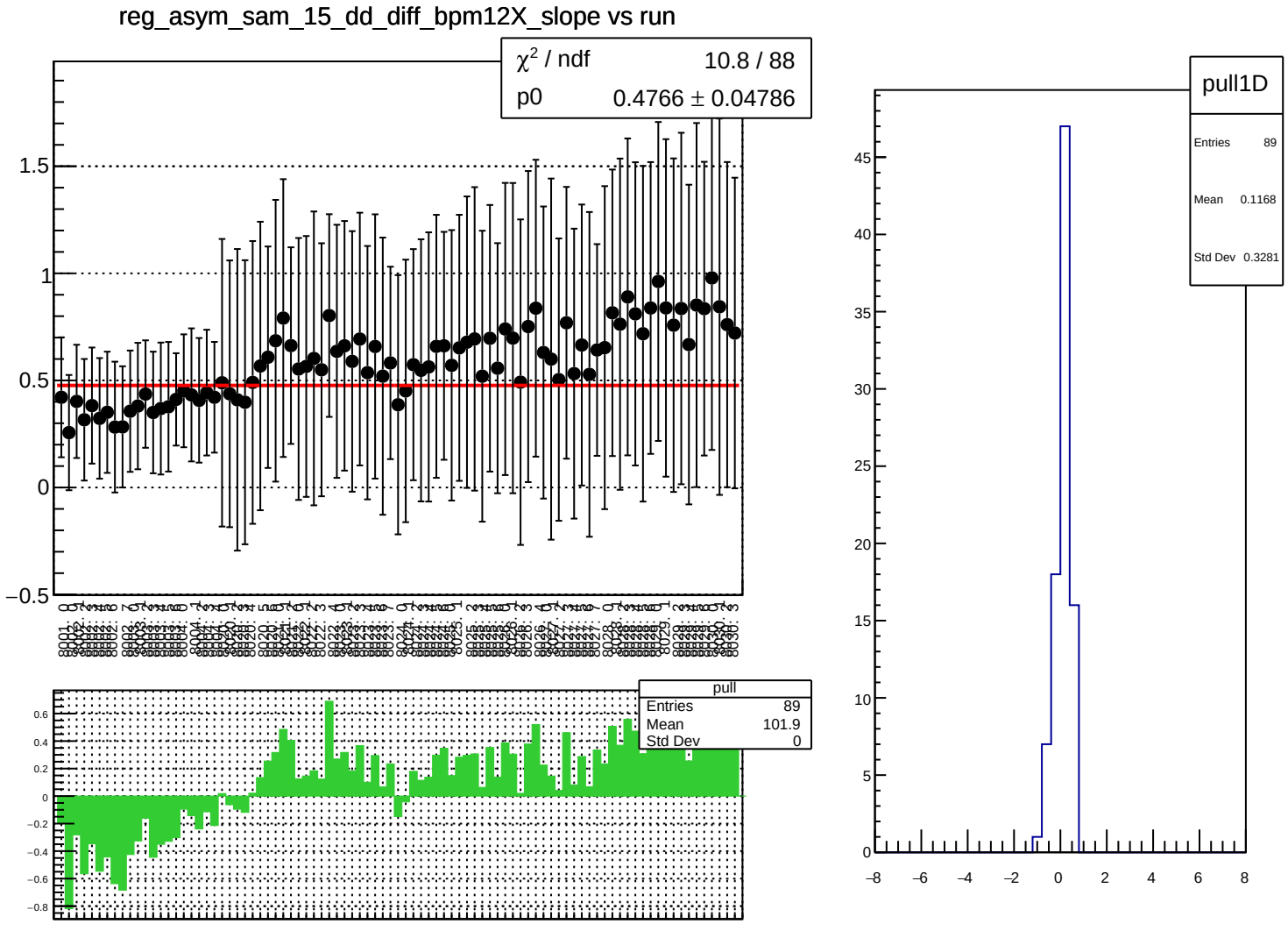

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 160.2 / 88
p0 −0.02558 ± 0.02225
pull
Entries 89
Mean 82.64
Std Dev 0
pull1D
Entries 89
Mean 0.5613
Std Dev 1.218

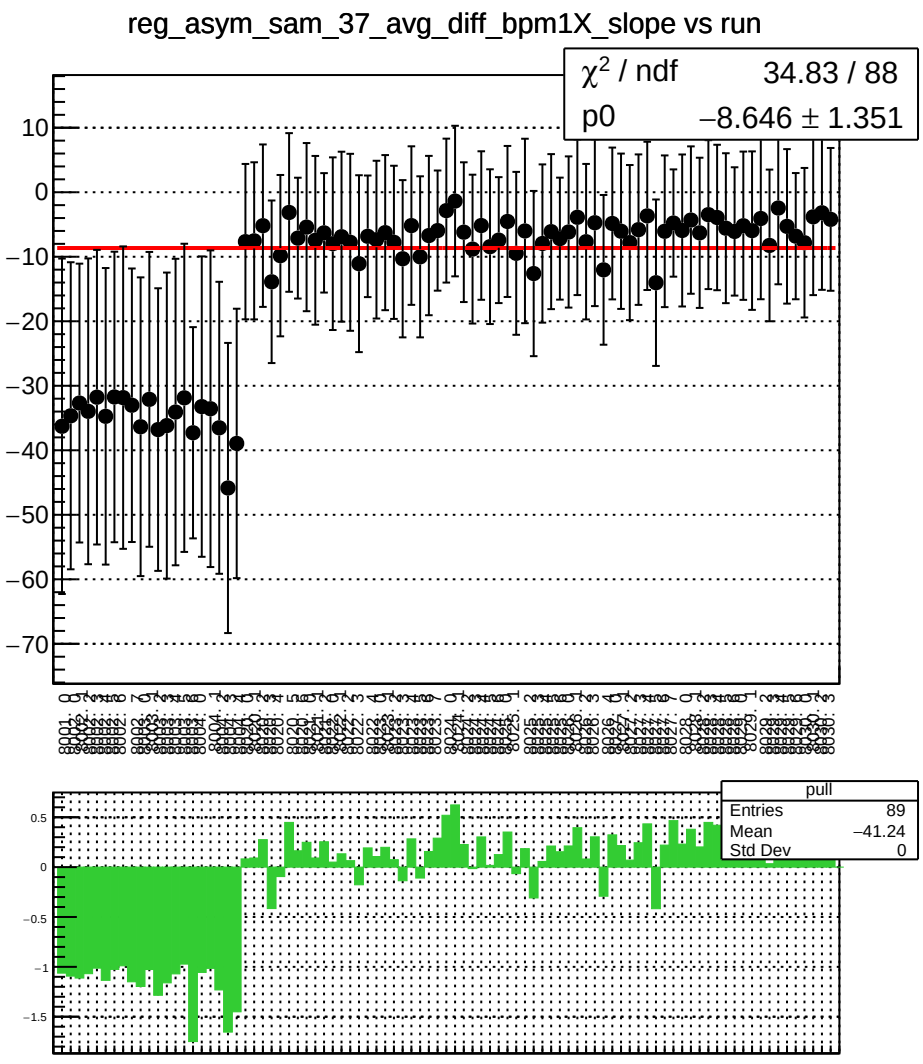

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 3.575 / 88
p0 −2.437 ± 0.6864
pull
Entries 89
Mean −28.22
Std Dev 0
pull1D
Entries 89
Mean −0.01531
Std Dev 0.1998

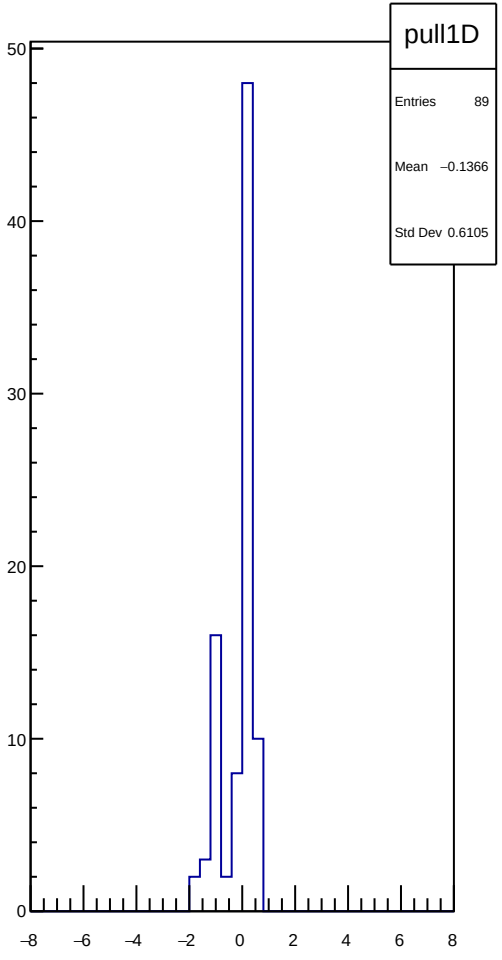

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 15.34 / 88
p0 −84.87 ± 1.052
−70
−80
−90
−100
−110
pull
Entries 89
Mean 327.9
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 89
Mean −0.033
Std Dev 0.4139
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

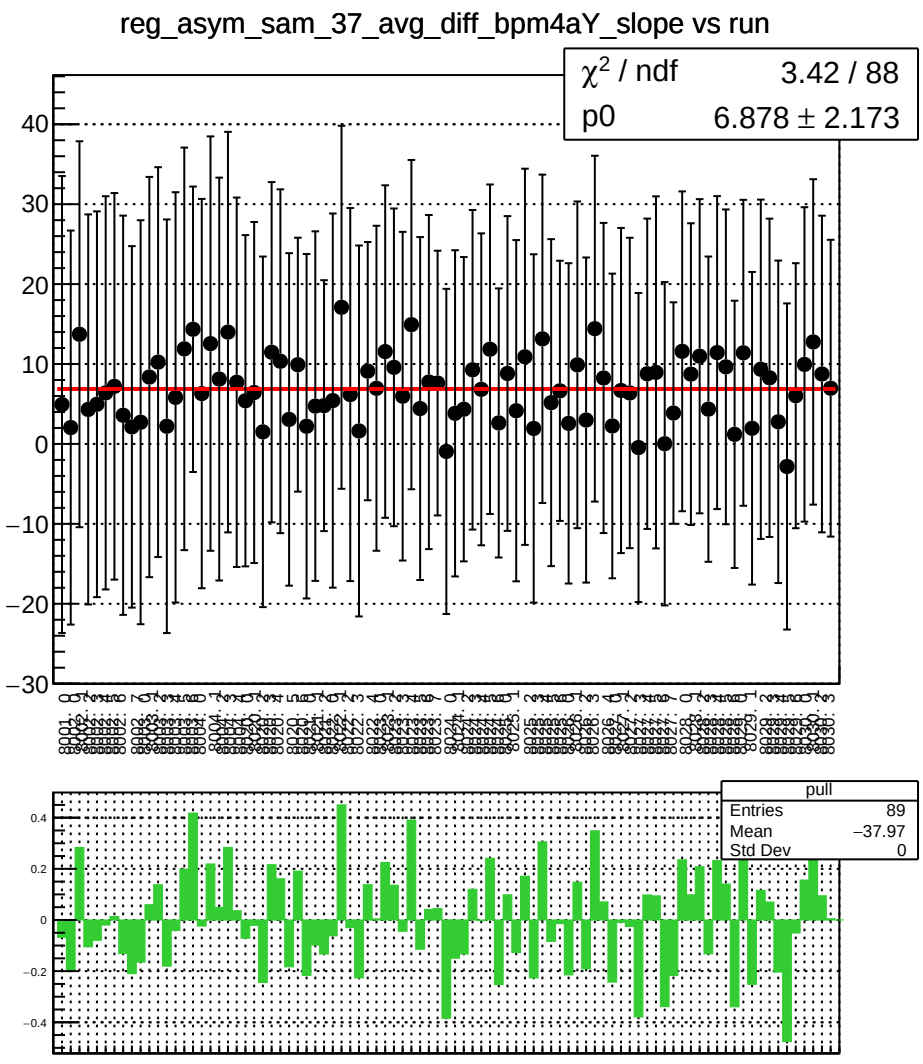

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.39 / 88
p0 −9.3 ± 0.7121
0
−5
−10
−15
−20
pull
Entries 89
Mean −60.13
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 89
Mean 0.008571
Std Dev 0.195
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

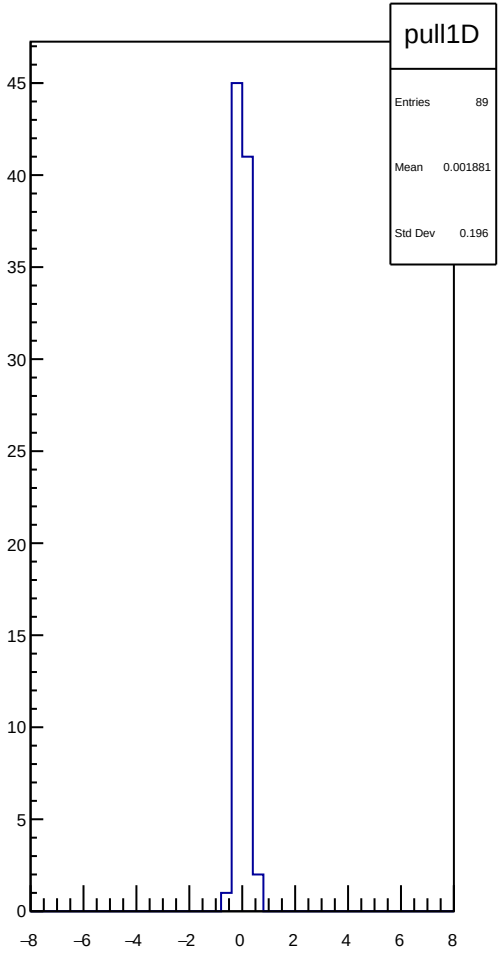

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.795 / 88
p0 −10.55 ± 1.136
pull
Entries 89
Mean 474.3
Std Dev 0
pull1D
Entries 89
Mean 0.01276
Std Dev 0.3315

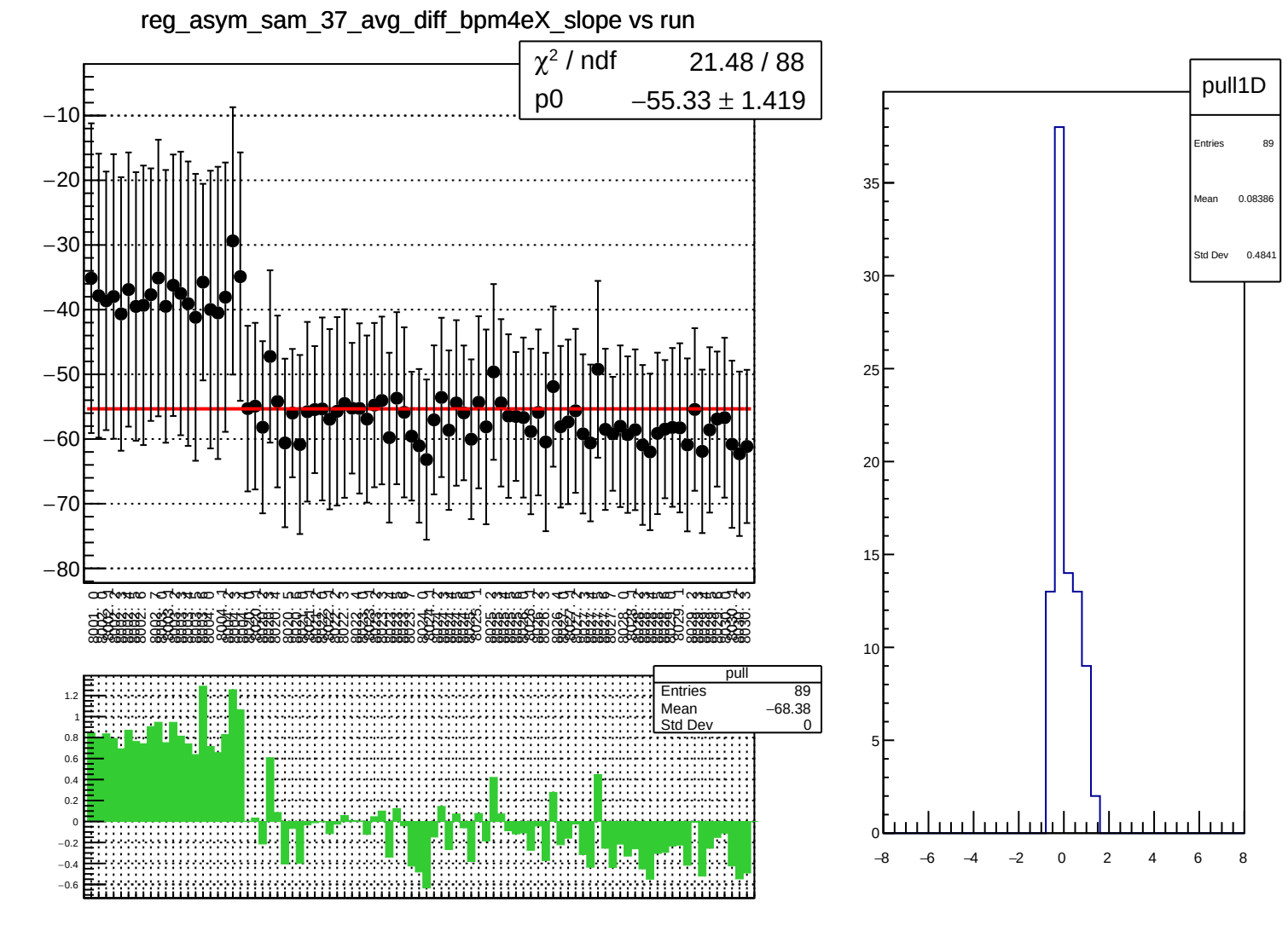

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 10.8 / 88
p0 0.4766 ± 0.04786
pull
Entries 89
Mean 101.9
Std Dev 0
pull1D
Entries 89
Mean 0.1168
Std Dev 0.3281

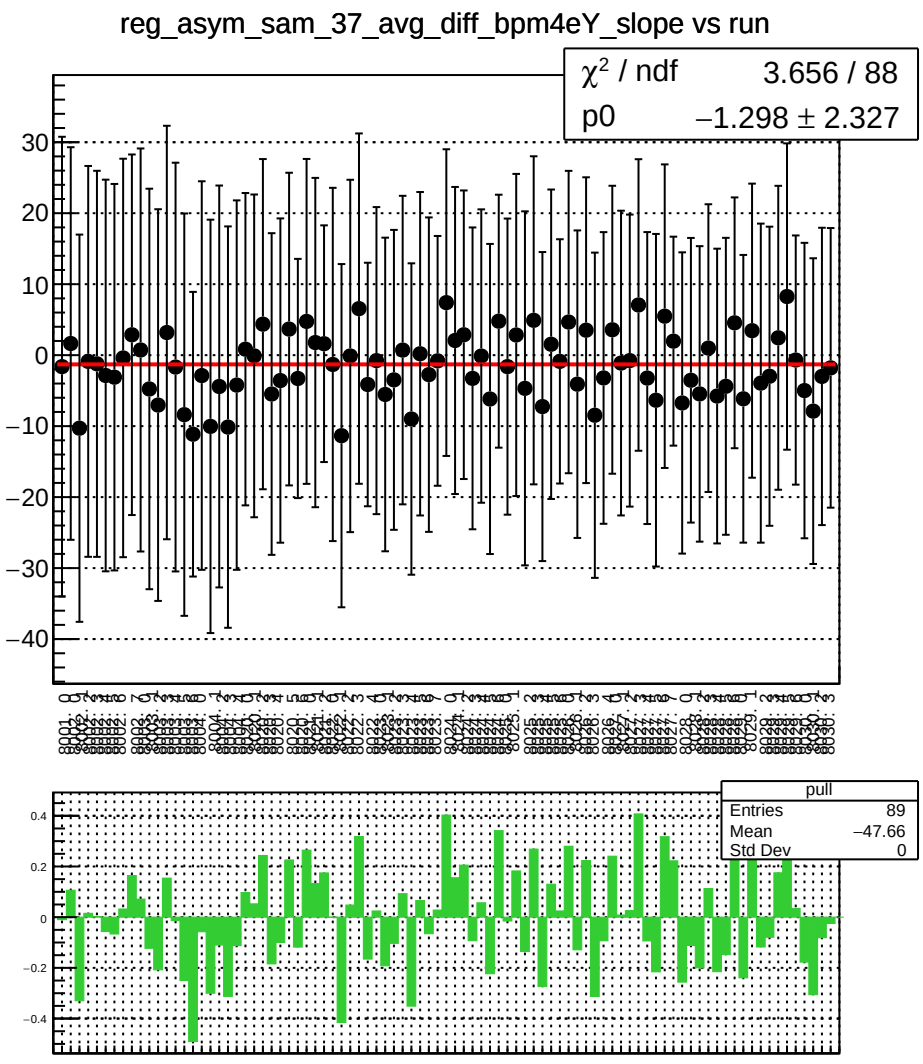

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 34.83 / 88
p0 −8.646 ± 1.351
pull
Entries 89
Mean −41.24
Std Dev 0

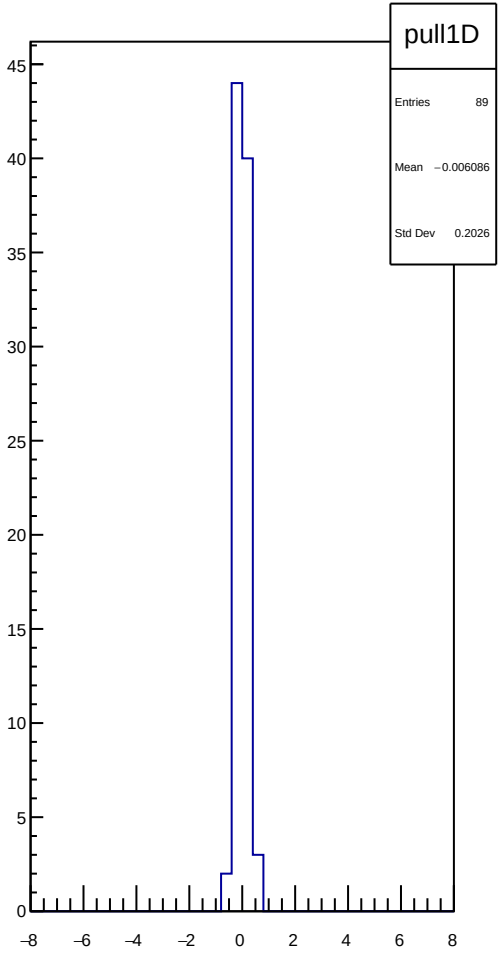

pull1D
Entries 89
Mean −0.1366
Std Dev 0.6105

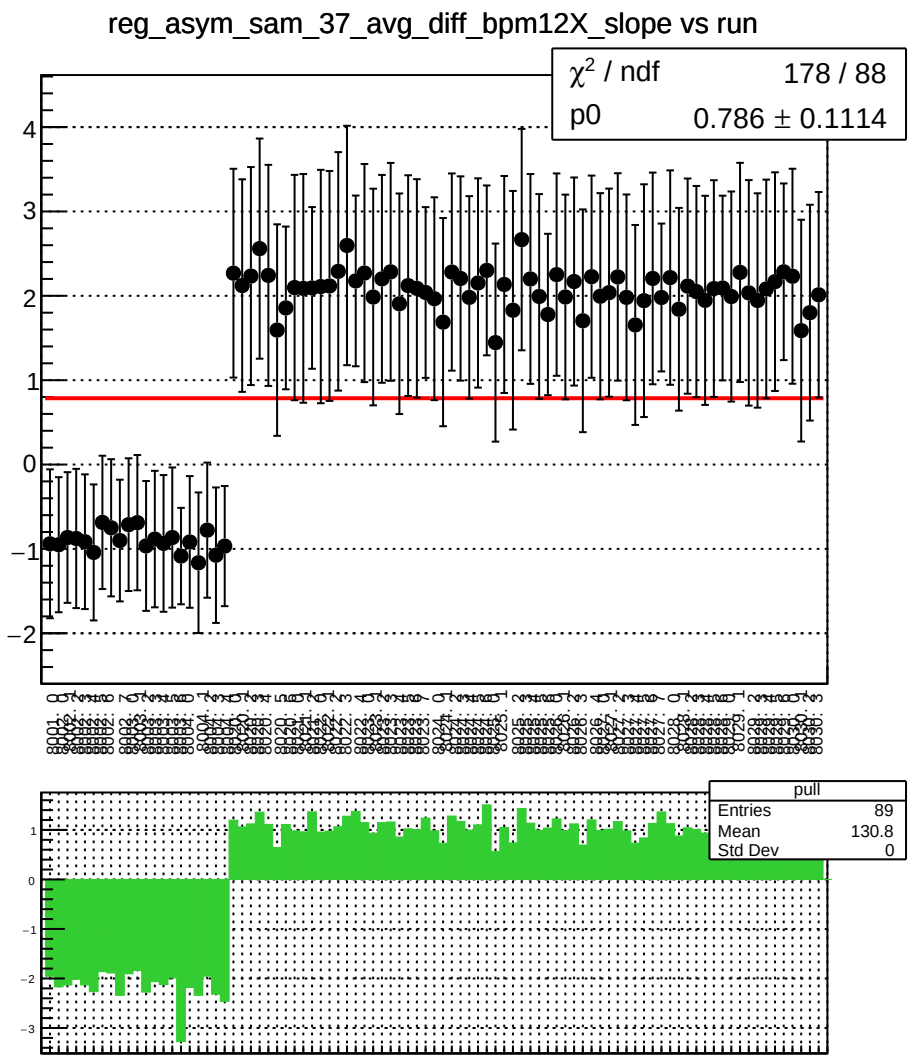

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.42 / 88
p0 6.878 ± 2.173
pull
Entries 89
Mean −37.97
Std Dev 0

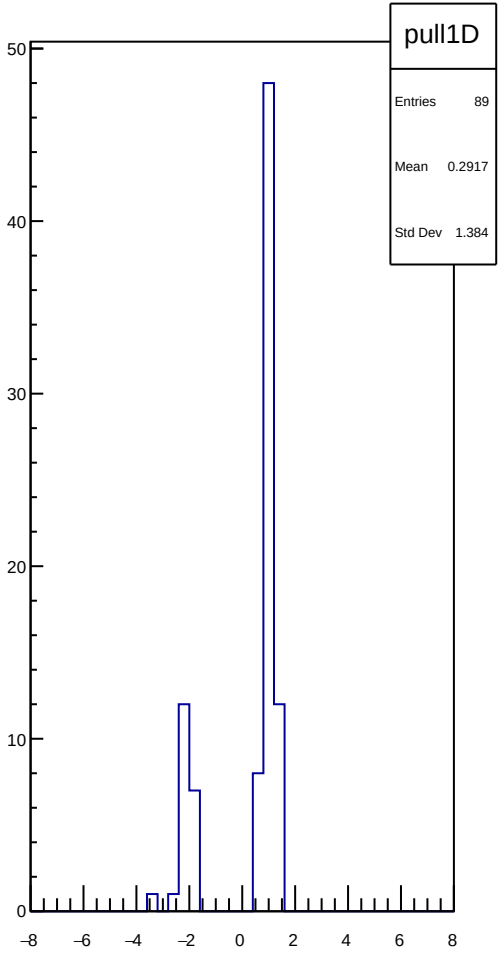

pull1D
Entries 89
Mean 0.001881
Std Dev 0.196

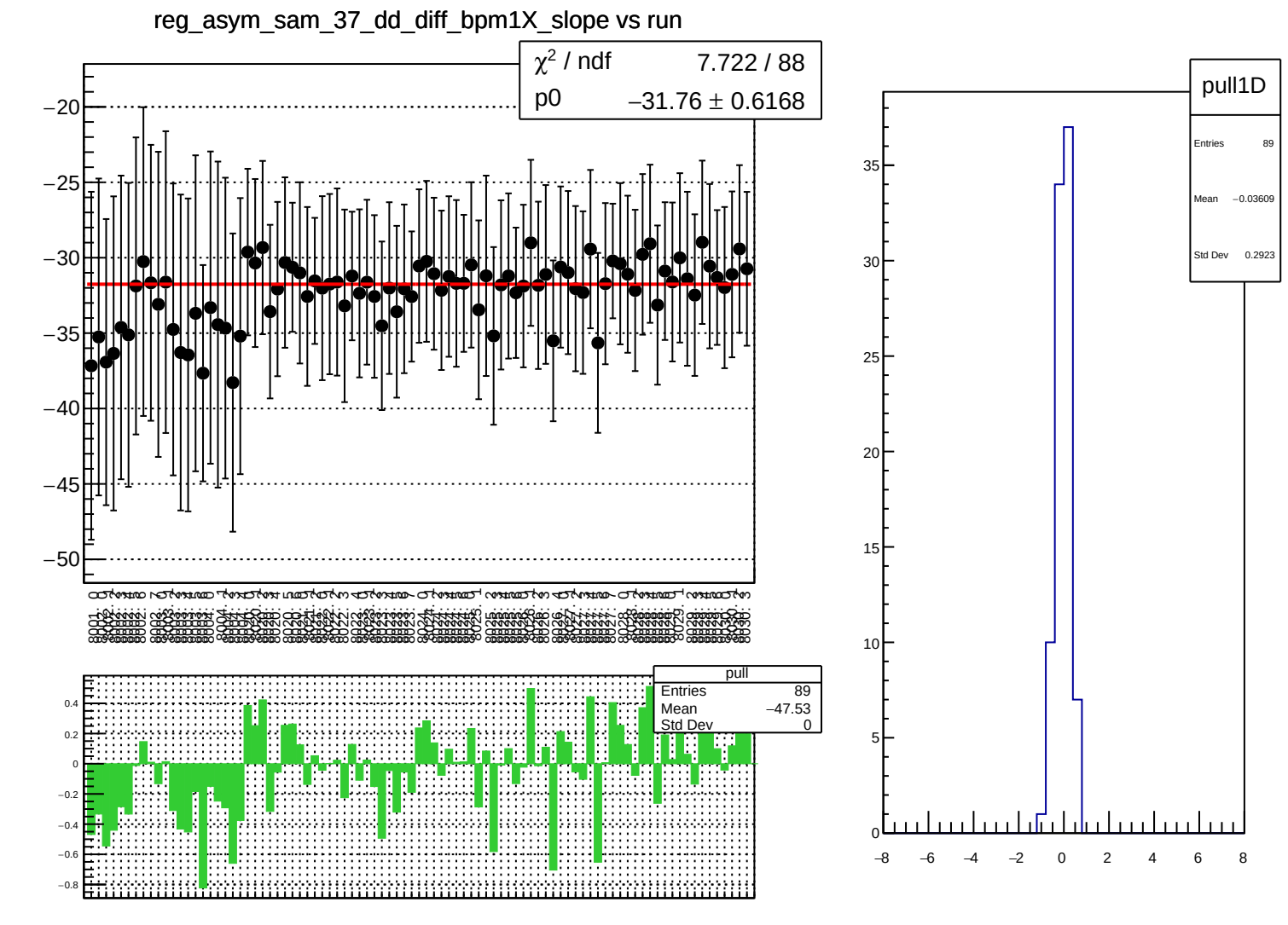

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 21.48 / 88
p0 −55.33 ± 1.419
pull
Entries 89
Mean −68.38
Std Dev 0
pull1D
Entries 89
Mean 0.08386
Std Dev 0.4841

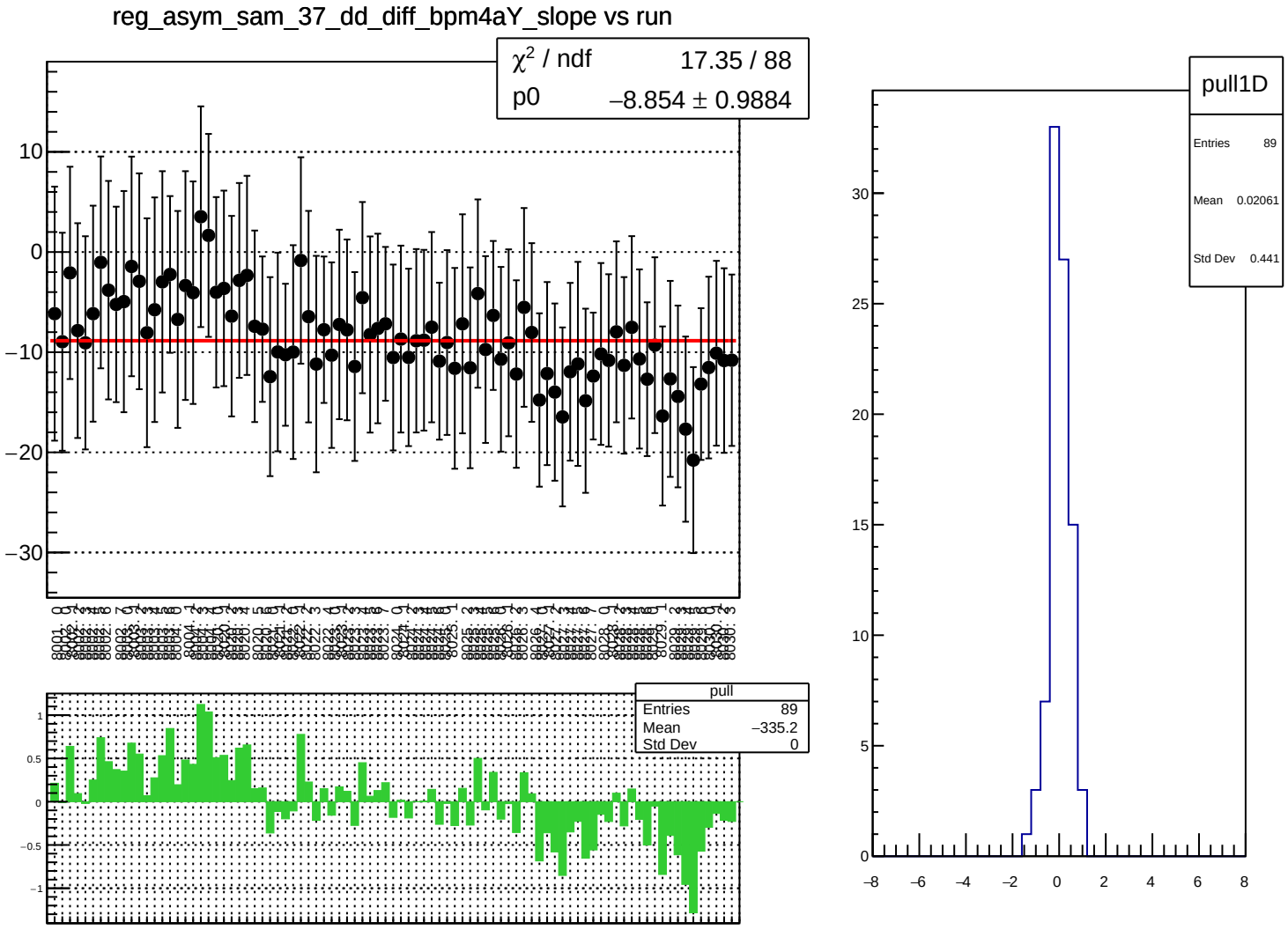

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.656 / 88
p0 −1.298 ± 2.327
pull
Entries 89
Mean −47.66
Std Dev 0

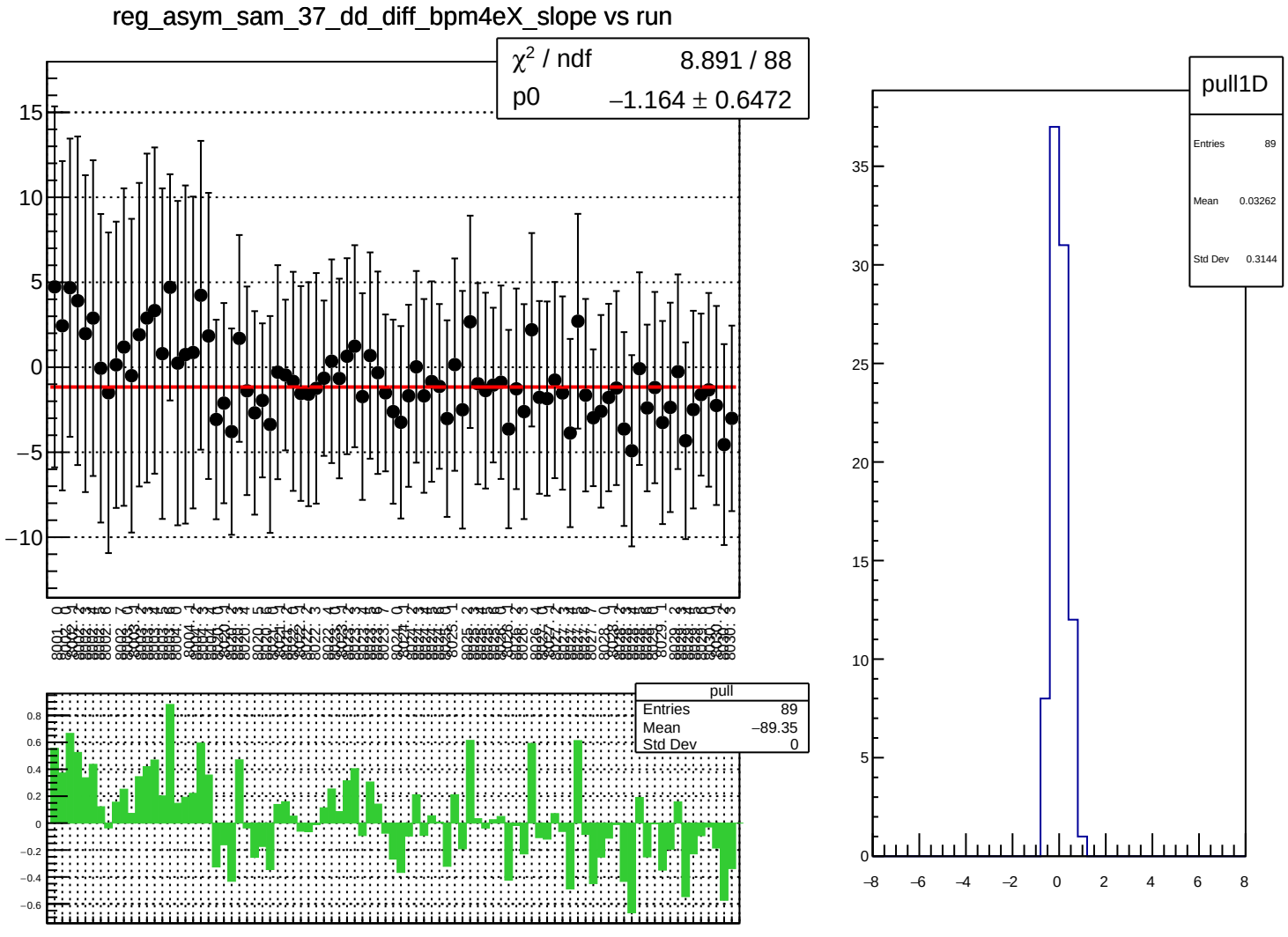

pull1D
Entries 89
Mean −0.006086
Std Dev 0.2026

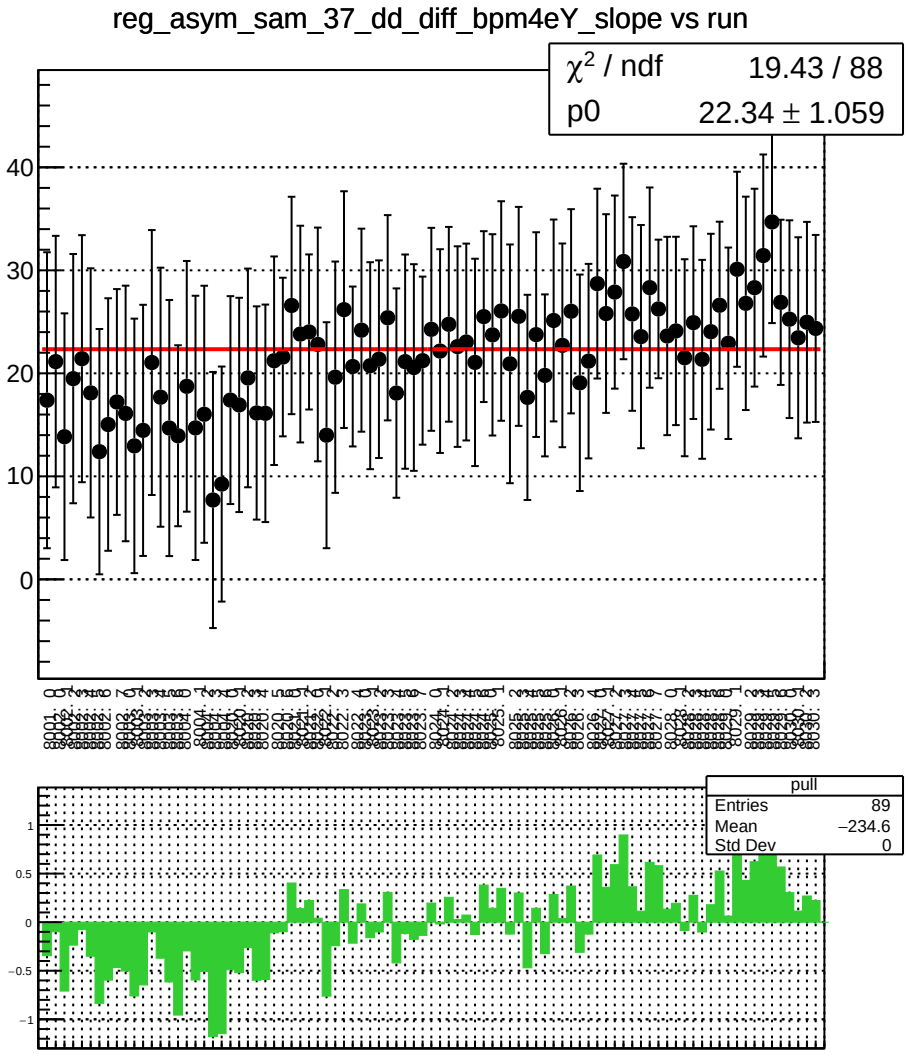

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 178 / 88
p0 0.786 ± 0.1114
pull
Entries 89
Mean 130.8
Std Dev 0

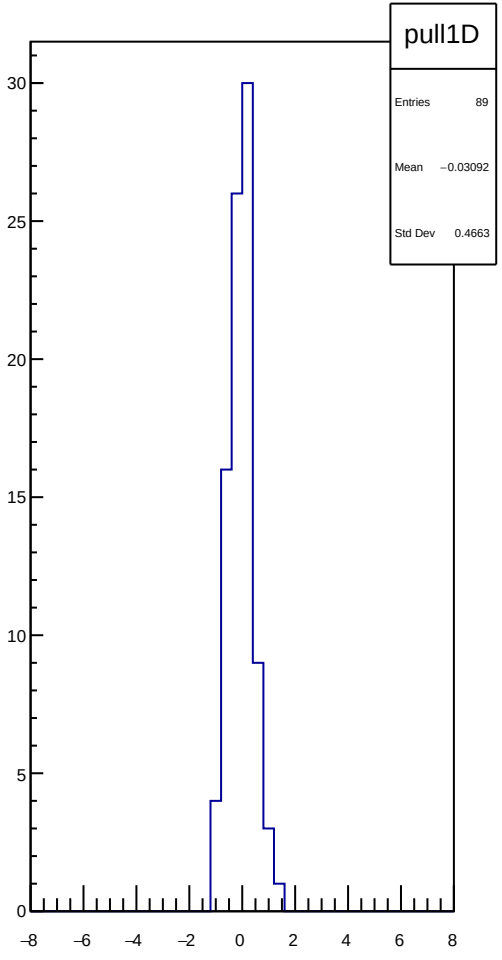

pull1D
Entries 89
Mean 0.2917
Std Dev 1.384

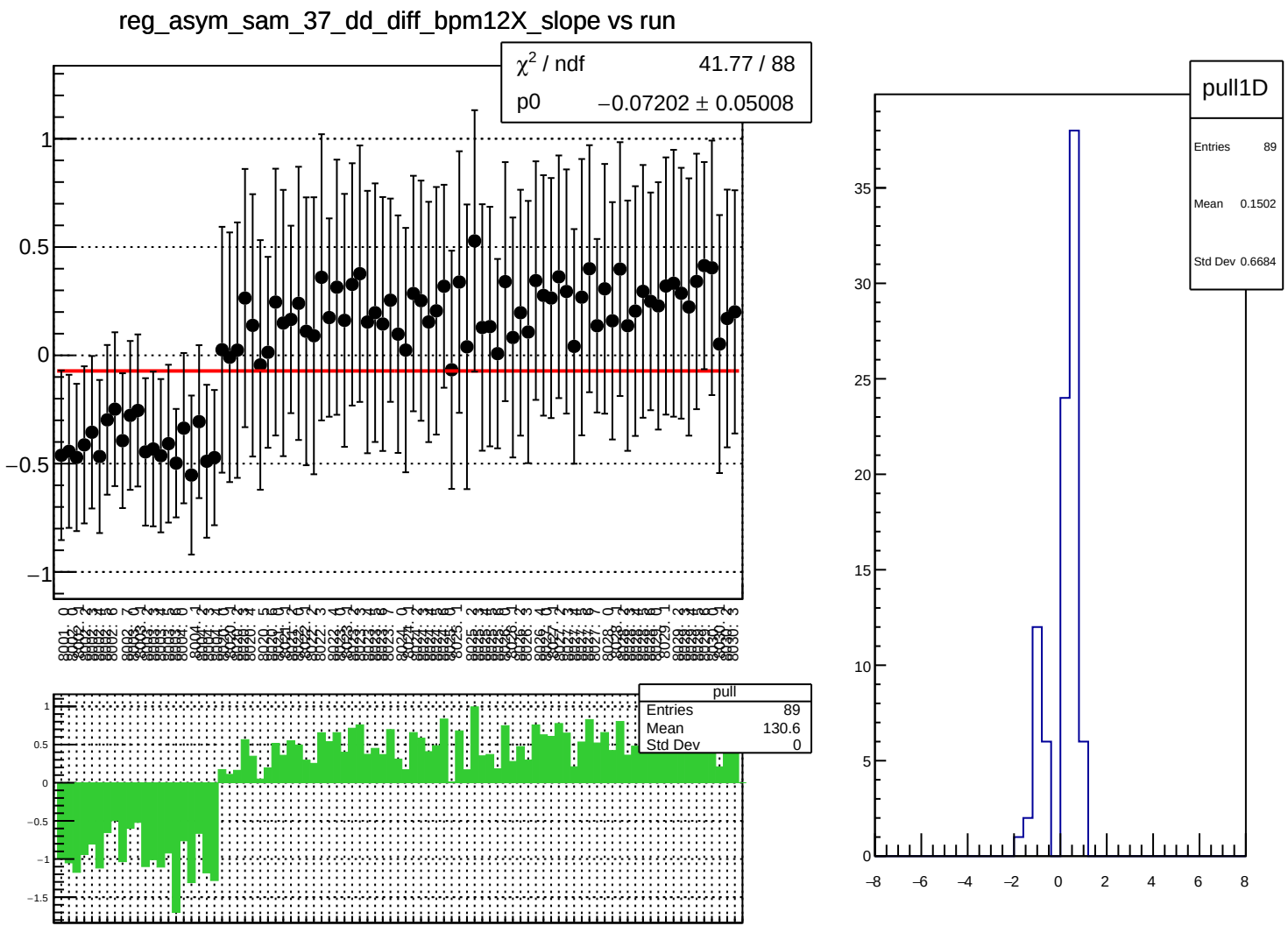

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 7.722 / 88
p0 −31.76 ± 0.6168
pull
Entries 89
Mean −47.53
Std Dev 0
pull1D
Entries 89
Mean −0.03609
Std Dev 0.2923

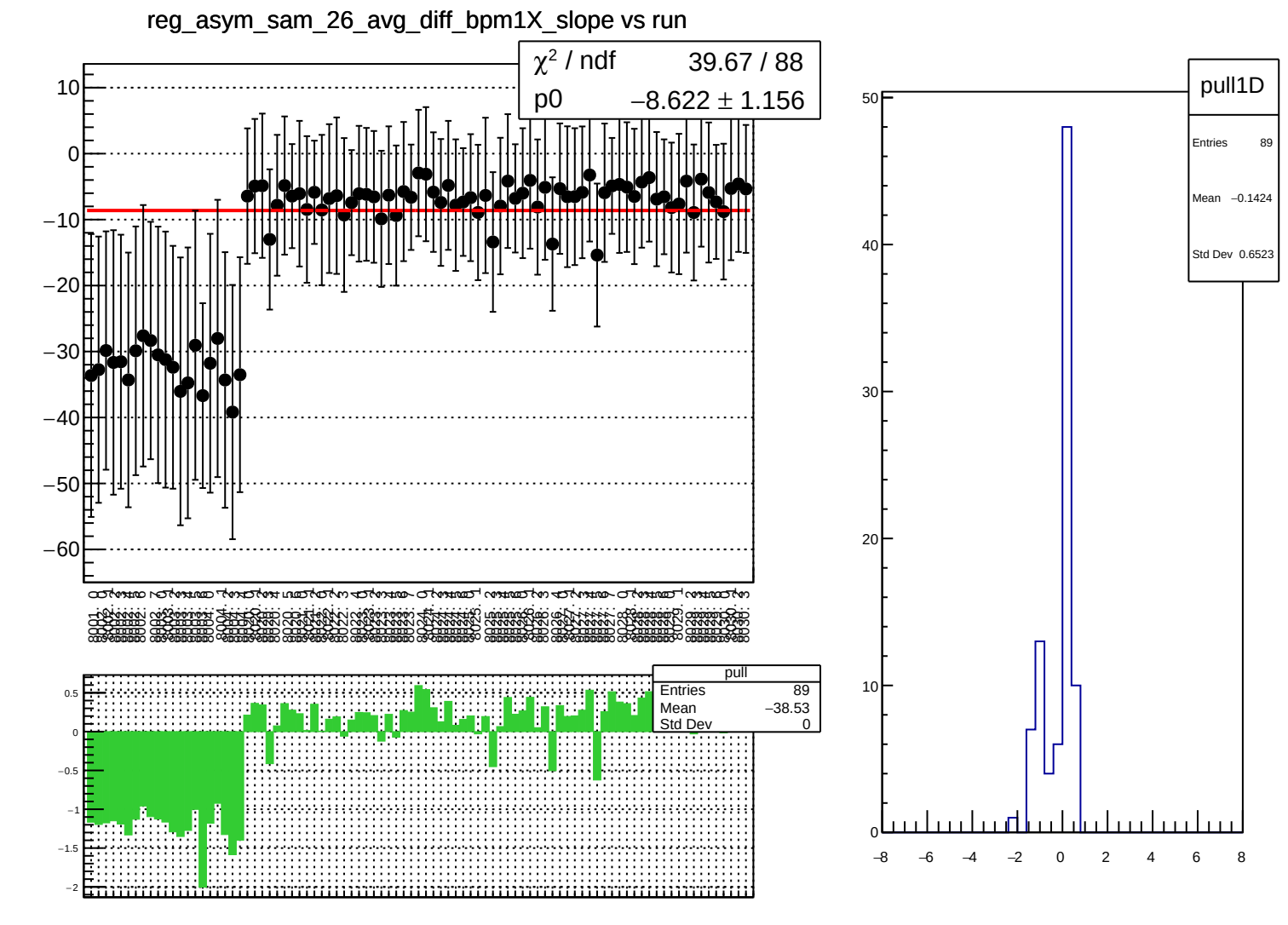

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 17.35 / 88
p0 −8.854 ± 0.9884
pull
Entries 89
Mean −335.2
Std Dev 0
pull1D
Entries 89
Mean 0.02061
Std Dev 0.441

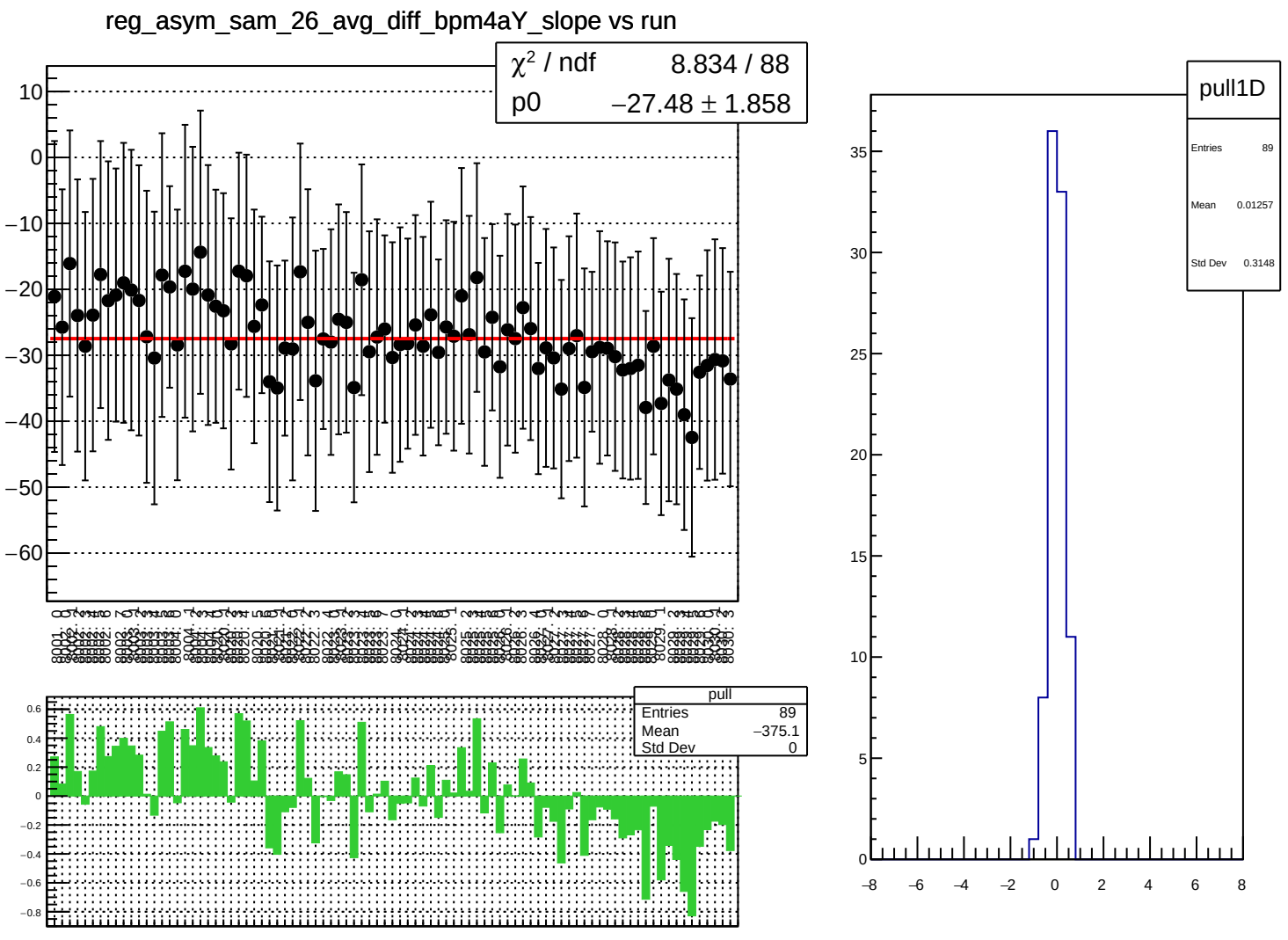

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.891 / 88
p0 −1.164 ± 0.6472
pull
Entries 89
Mean −89.35
Std Dev 0
pull1D
Entries 89
Mean 0.03262
Std Dev 0.3144

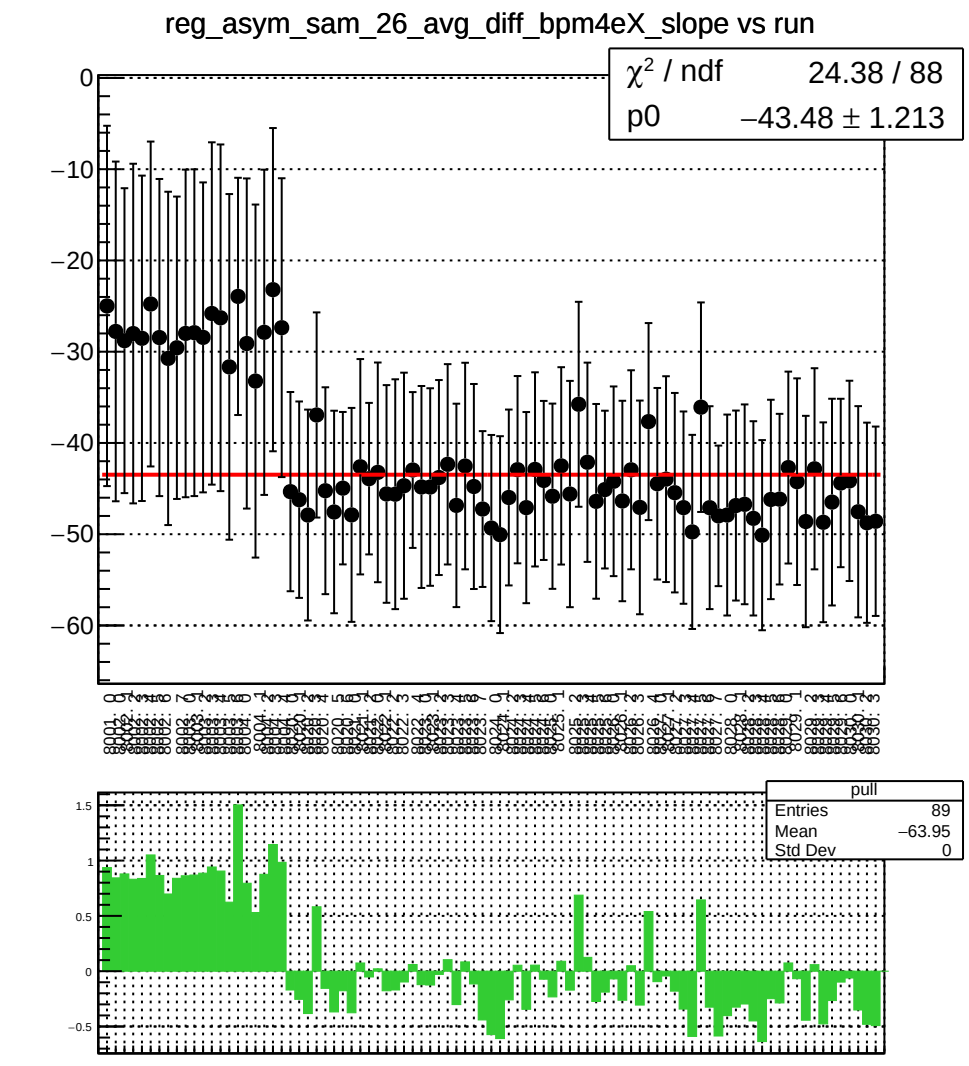

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 19.43 / 88
p0 22.34 ± 1.059
pull
Entries 89
Mean −234.6
Std Dev 0

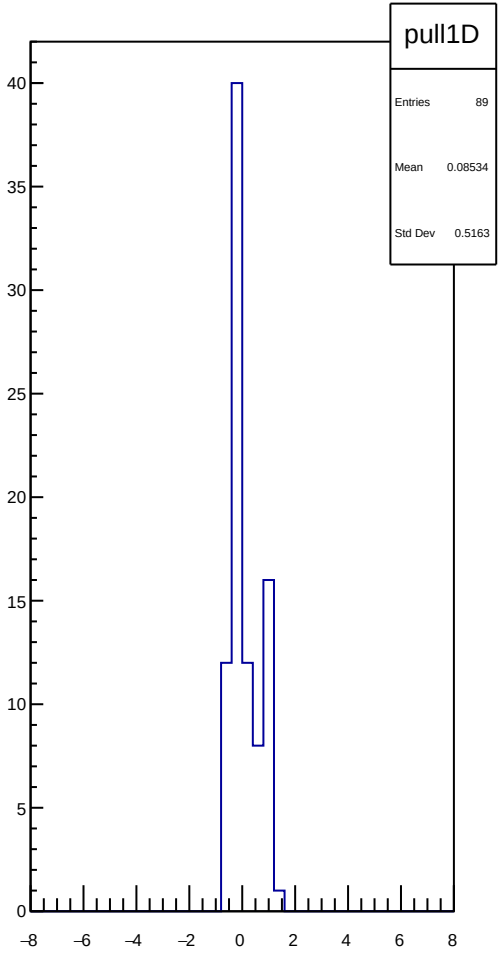

pull1D
Entries 89
Mean −0.03092
Std Dev 0.4663

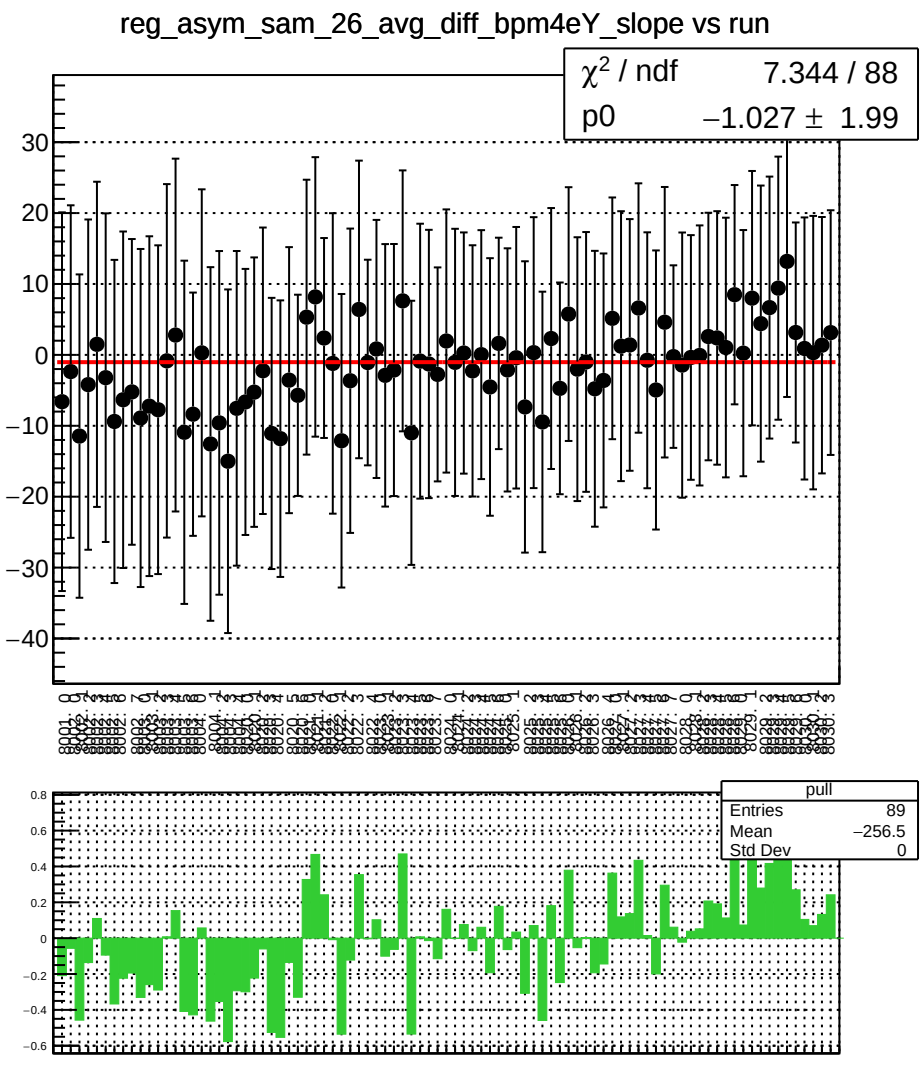

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 41.77 / 88
p0 −0.07202 ± 0.05008
pull
Entries 89
Mean 130.6
Std Dev 0
pull1D
Entries 89
Mean 0.1502
Std Dev 0.6684

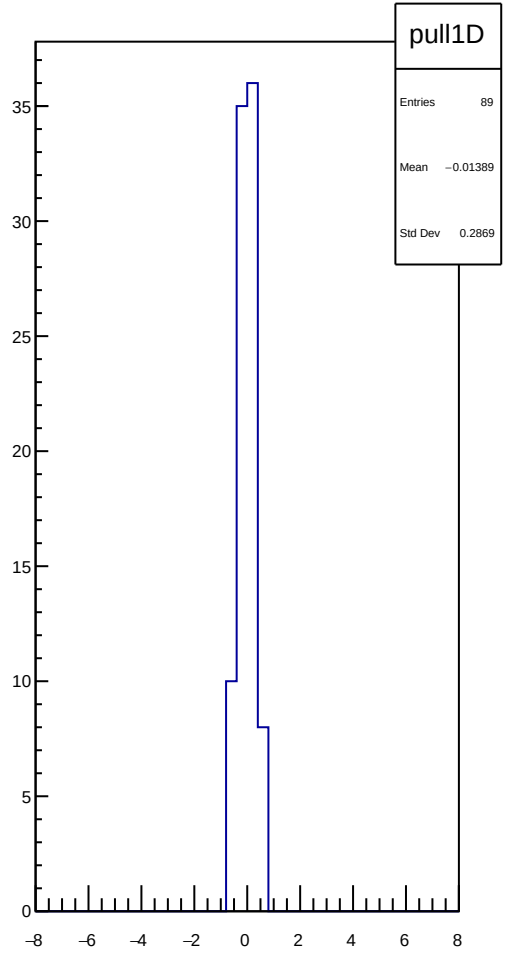

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 39.67 / 88
p0 −8.622 ± 1.156
pull
Entries 89
Mean −38.53
Std Dev 0
pull1D
Entries 89
Mean −0.1424
Std Dev 0.6523

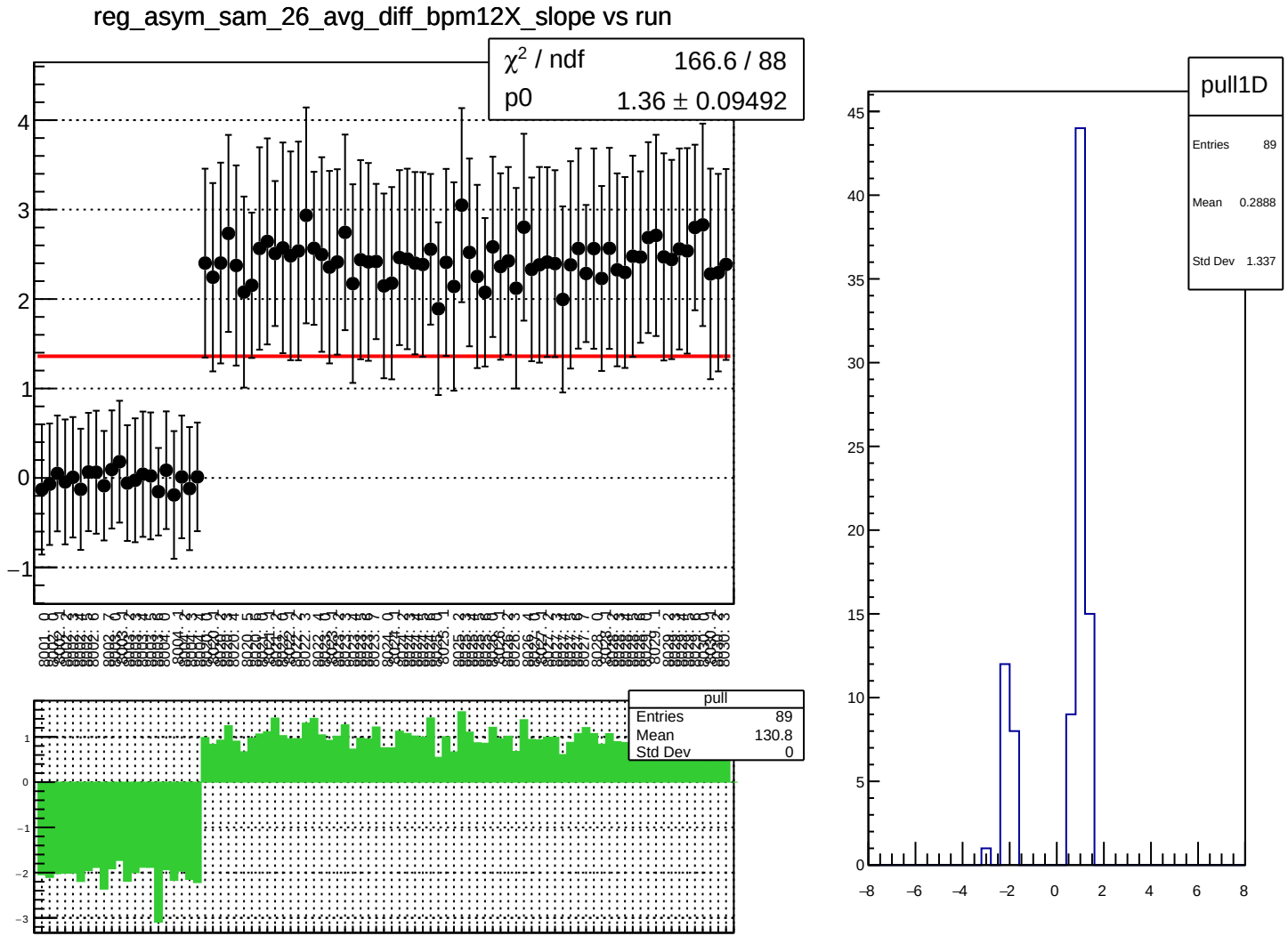

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.834 / 88
p0 −27.48 ± 1.858
pull
Entries 89
Mean −375.1
Std Dev 0
pull1D
Entries 89
Mean 0.01257
Std Dev 0.3148

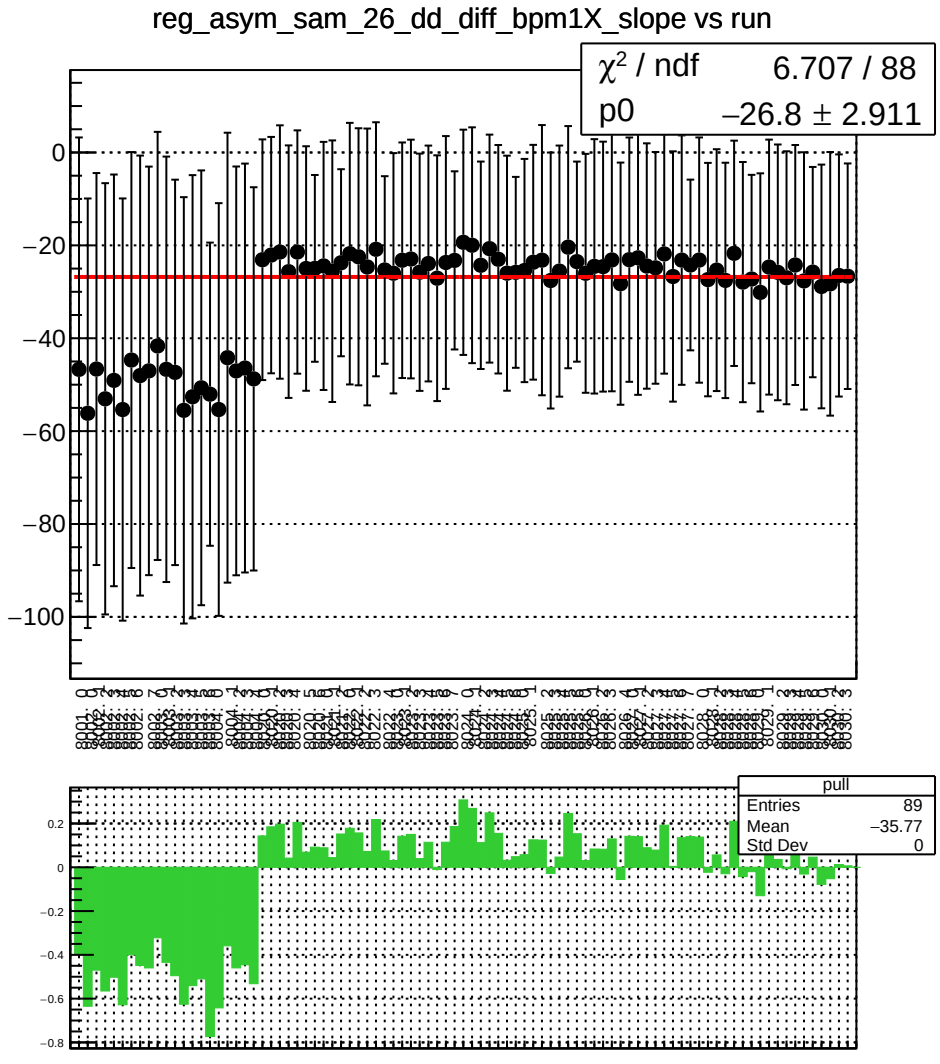

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 24.38 / 88
p0 −43.48 ± 1.213
pull
Entries 89
Mean −63.95
Std Dev 0

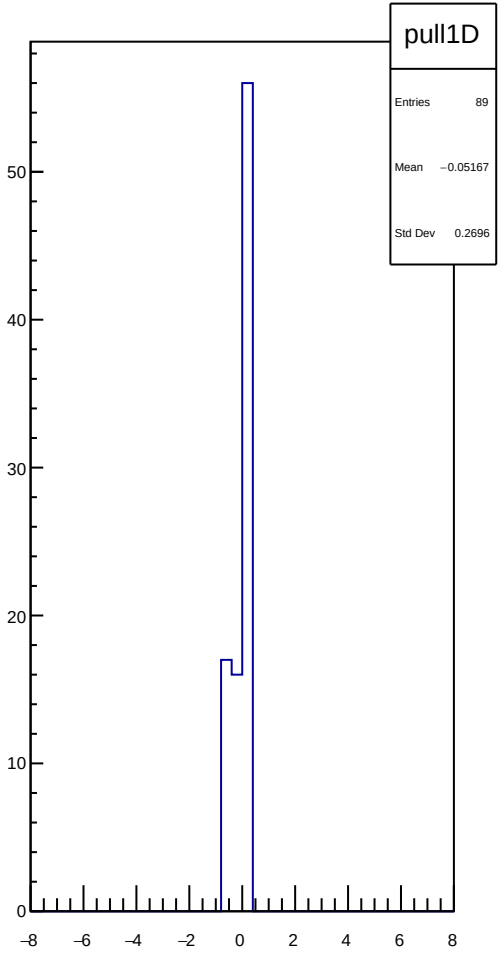

pull1D
Entries 89
Mean 0.08534
Std Dev 0.5163

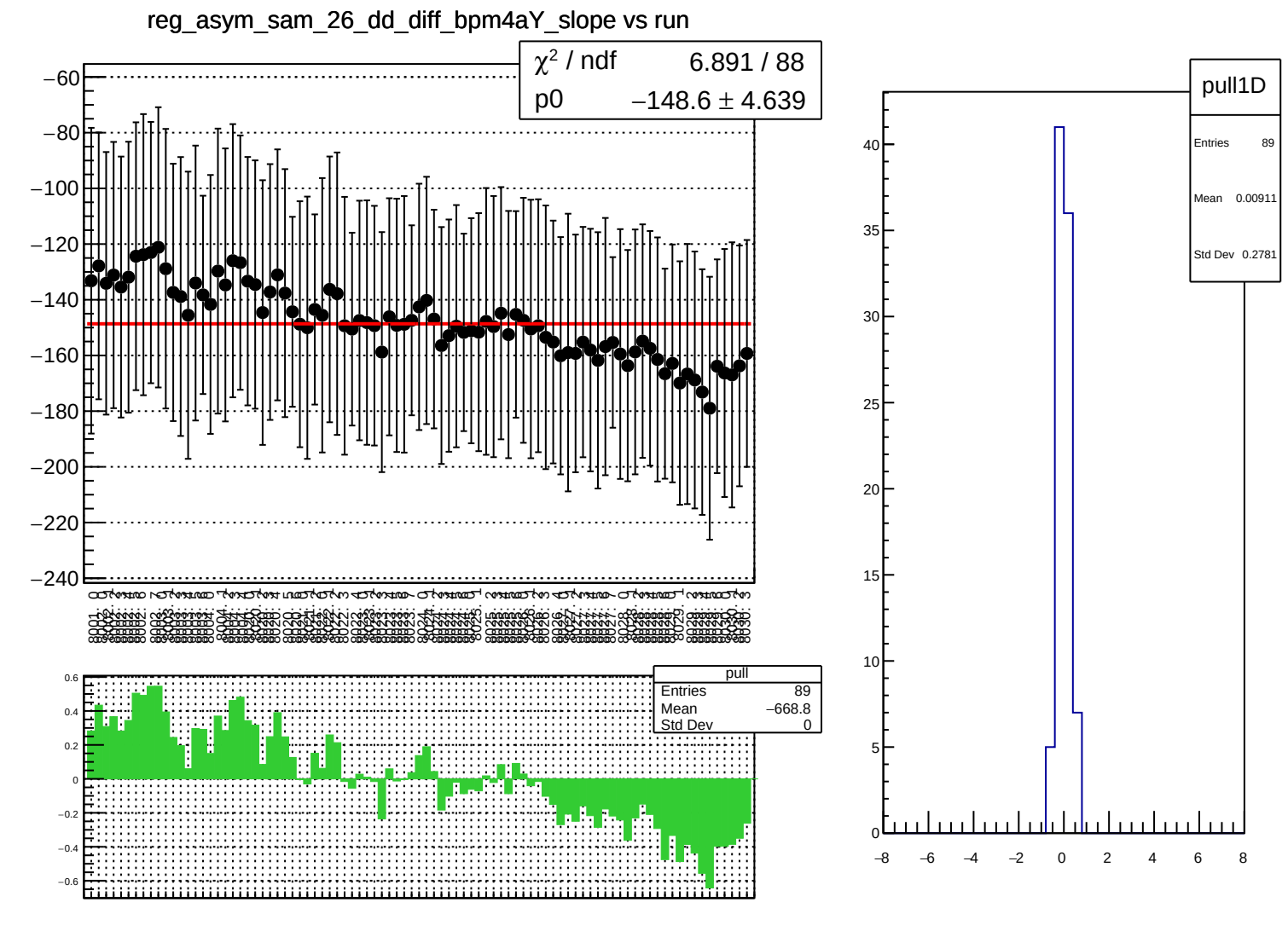

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.344 / 88
p0 −1.027 ± 1.99
pull
Entries 89
Mean −256.5
Std Dev 0

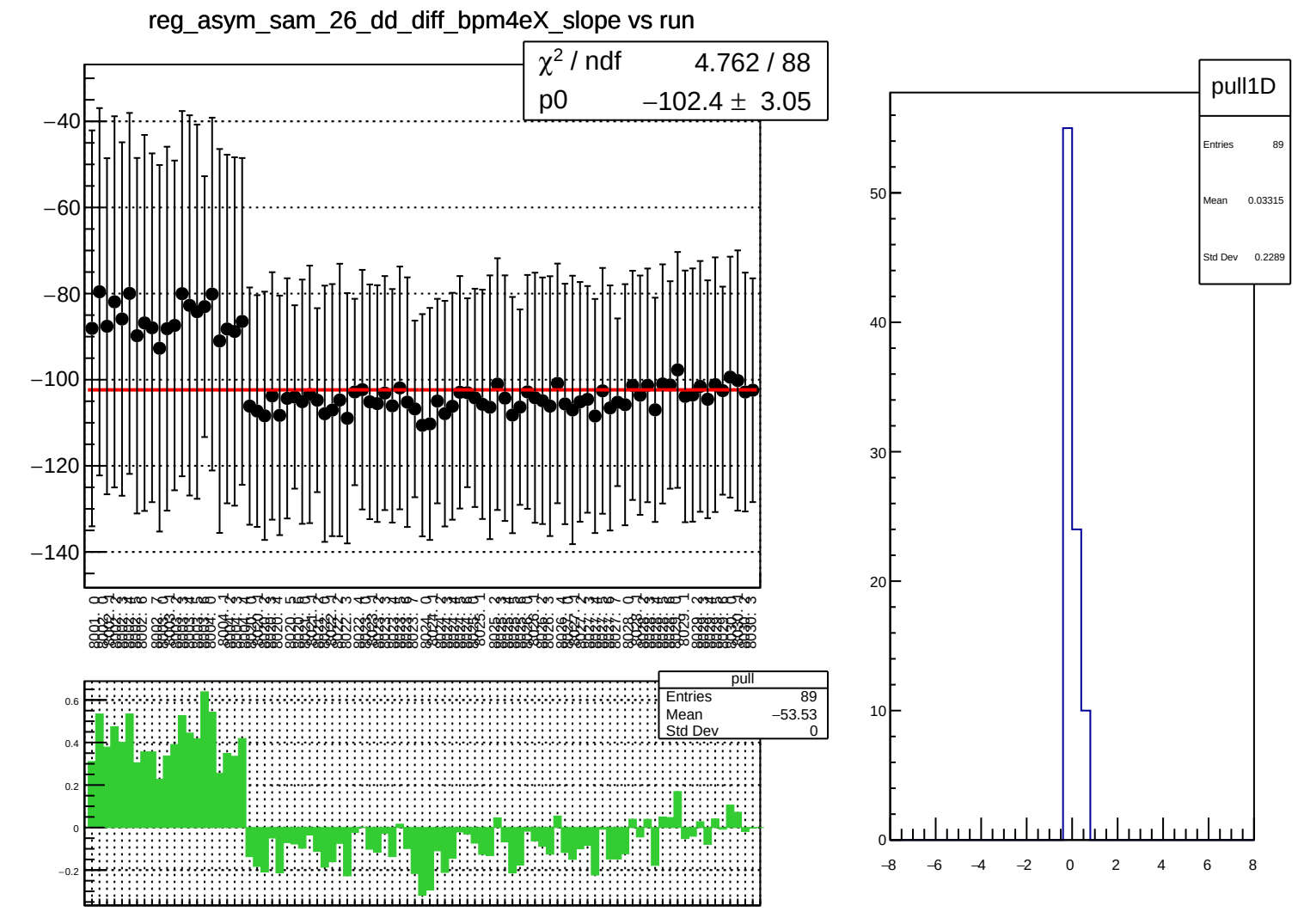

pull1D
Entries 89
Mean −0.01389
Std Dev 0.2869

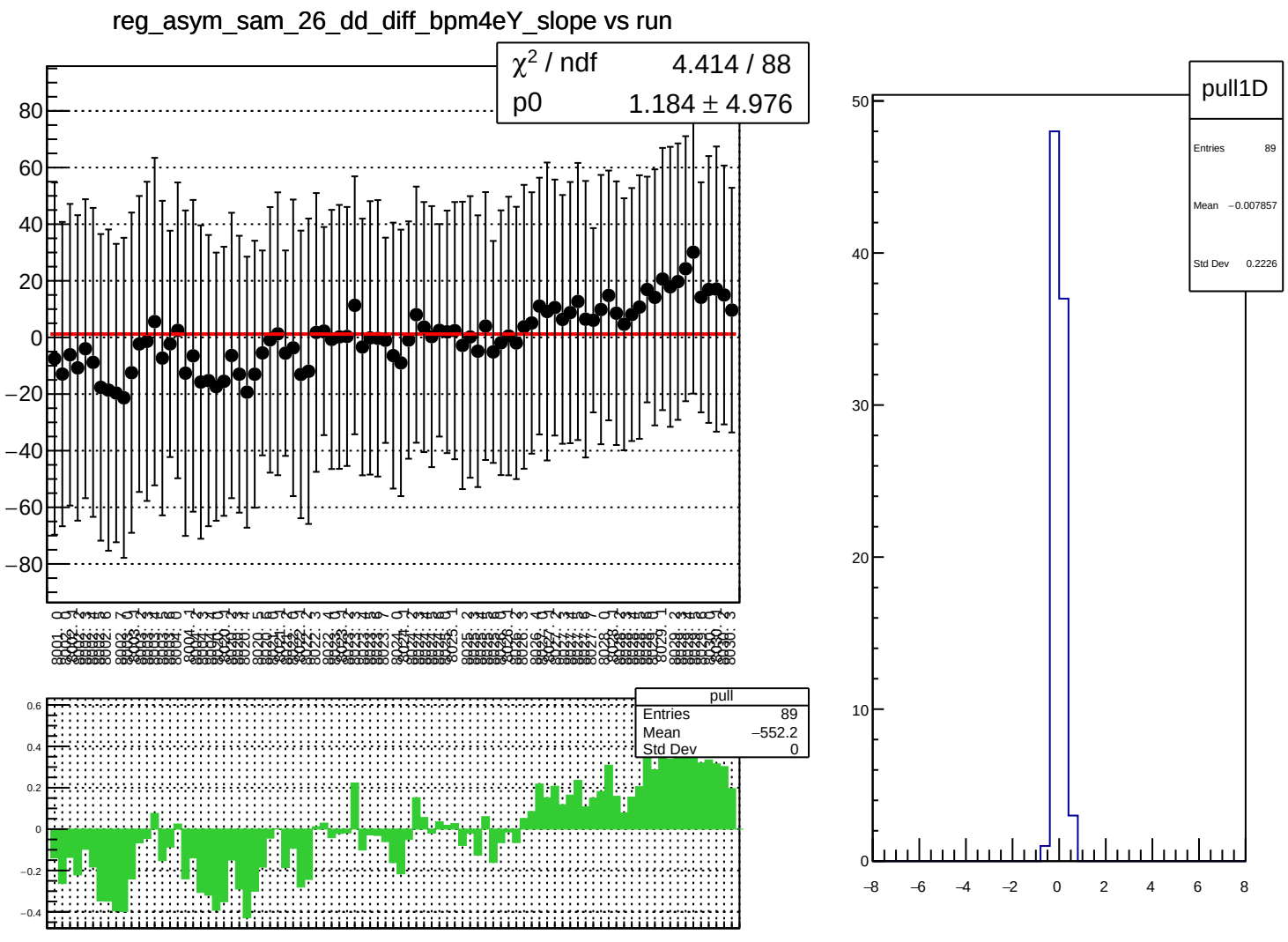

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 166.6 / 88
p0 1.36 ± 0.09492
pull
Entries 89
Mean 130.8
Std Dev 0
pull1D
Entries 89
Mean 0.2888
Std Dev 1.337

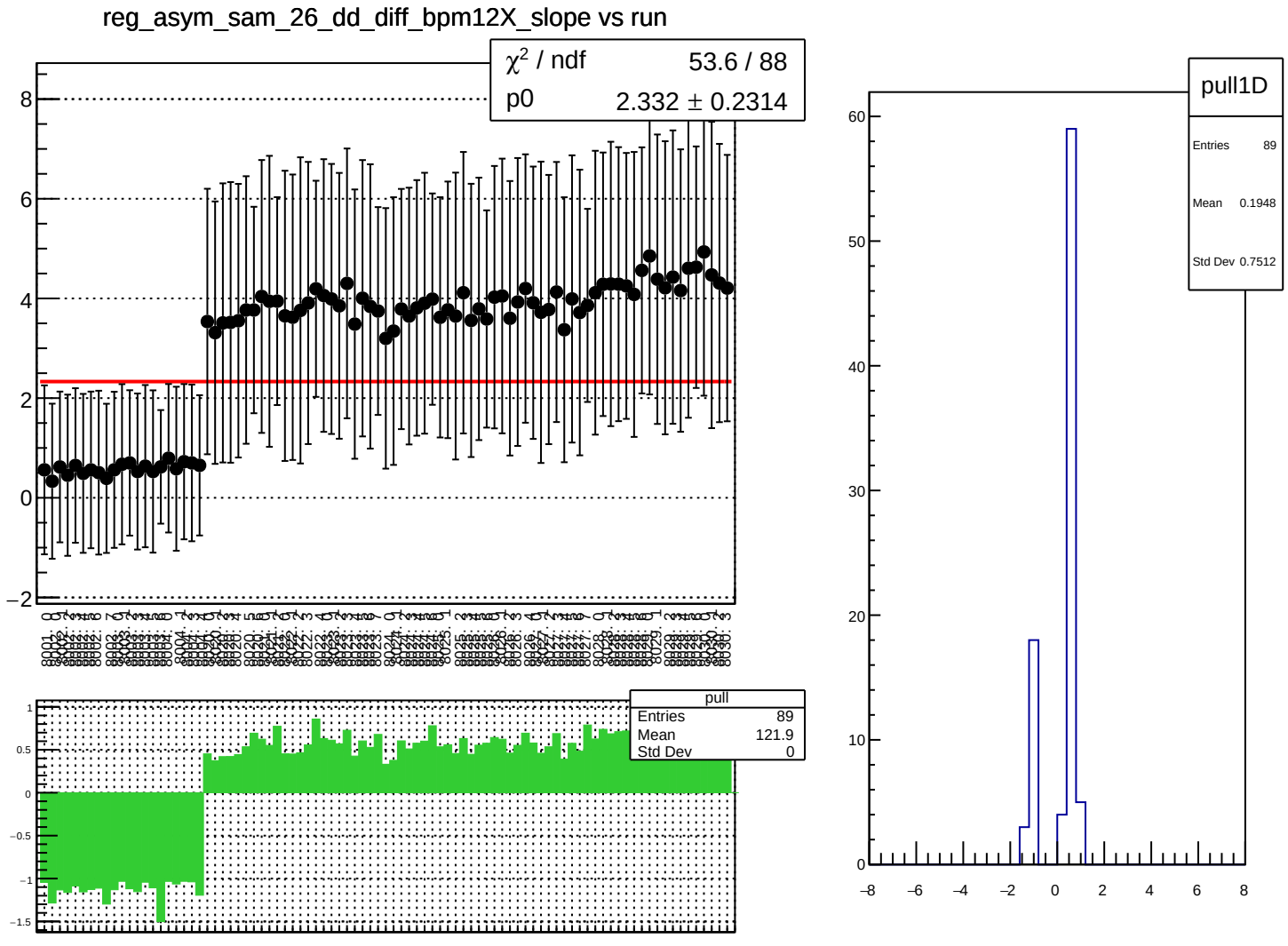

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 6.707 / 88
p0 −26.8 ± 2.911
pull
Entries 89
Mean −35.77
Std Dev 0

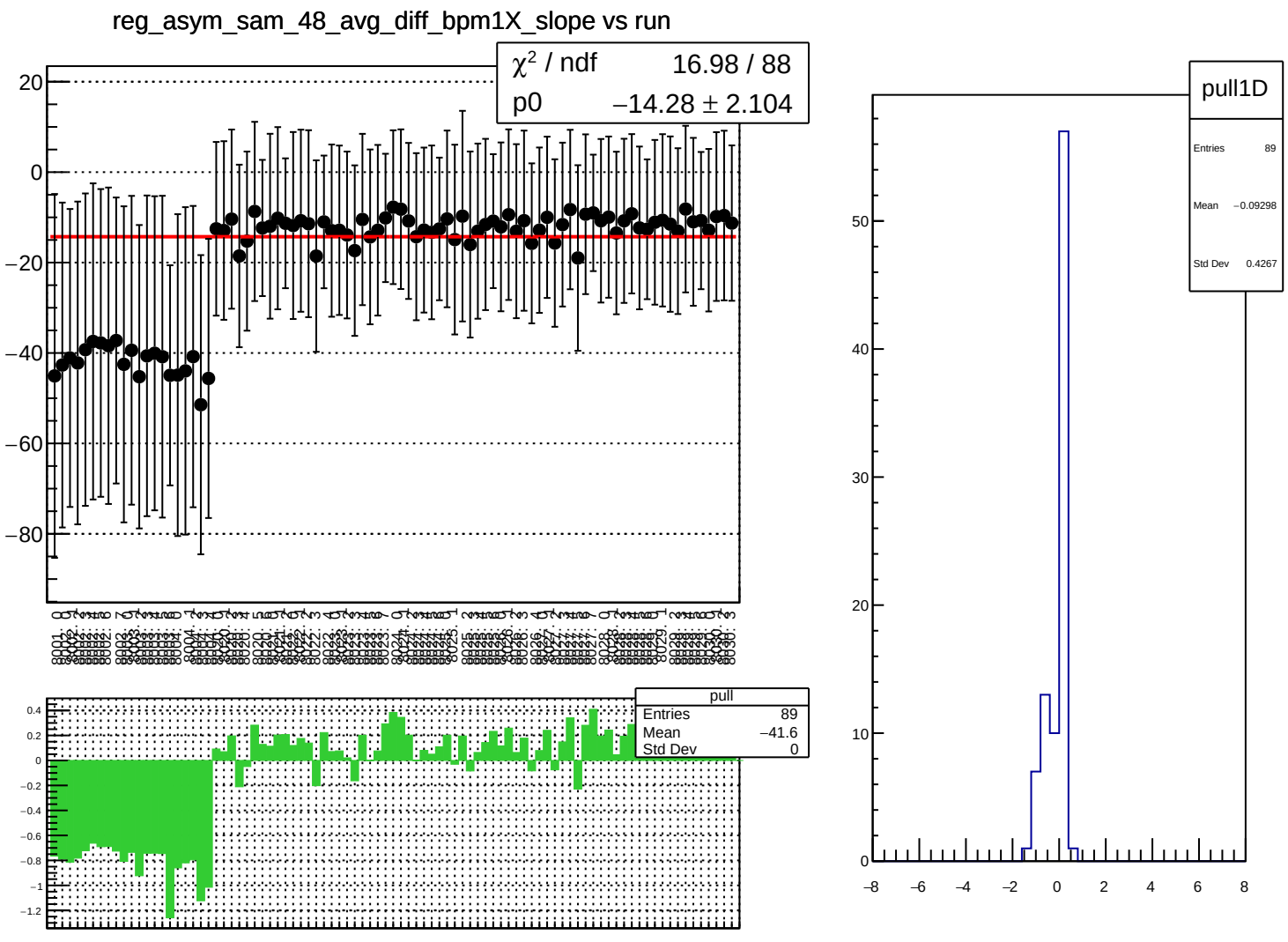

pull1D
Entries 89
Mean −0.05167
Std Dev 0.2696

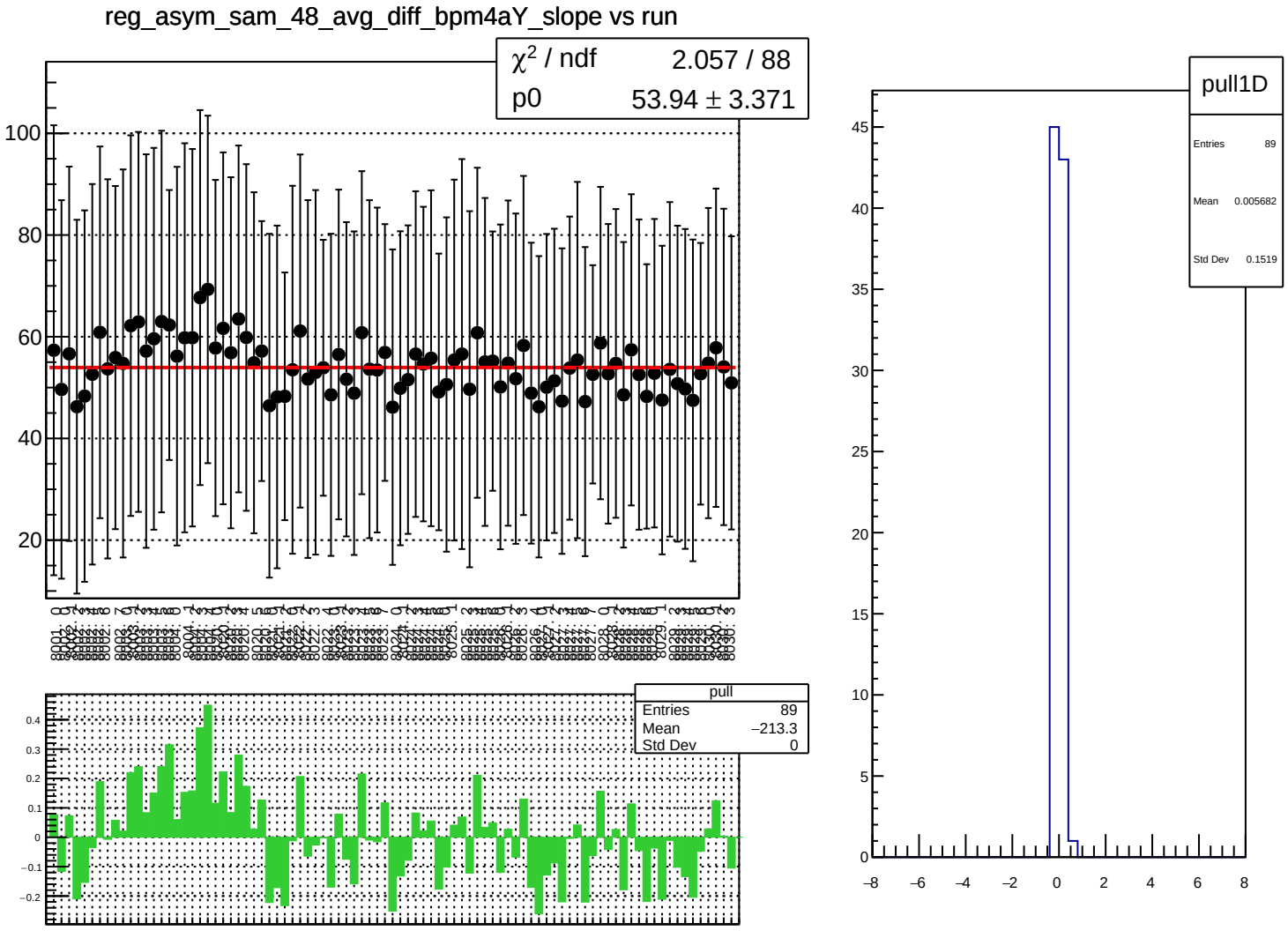

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.891 / 88
p0 −148.6 ± 4.639
pull
Entries 89
Mean −668.8
Std Dev 0
pull1D
Entries 89
Mean 0.00911
Std Dev 0.2781

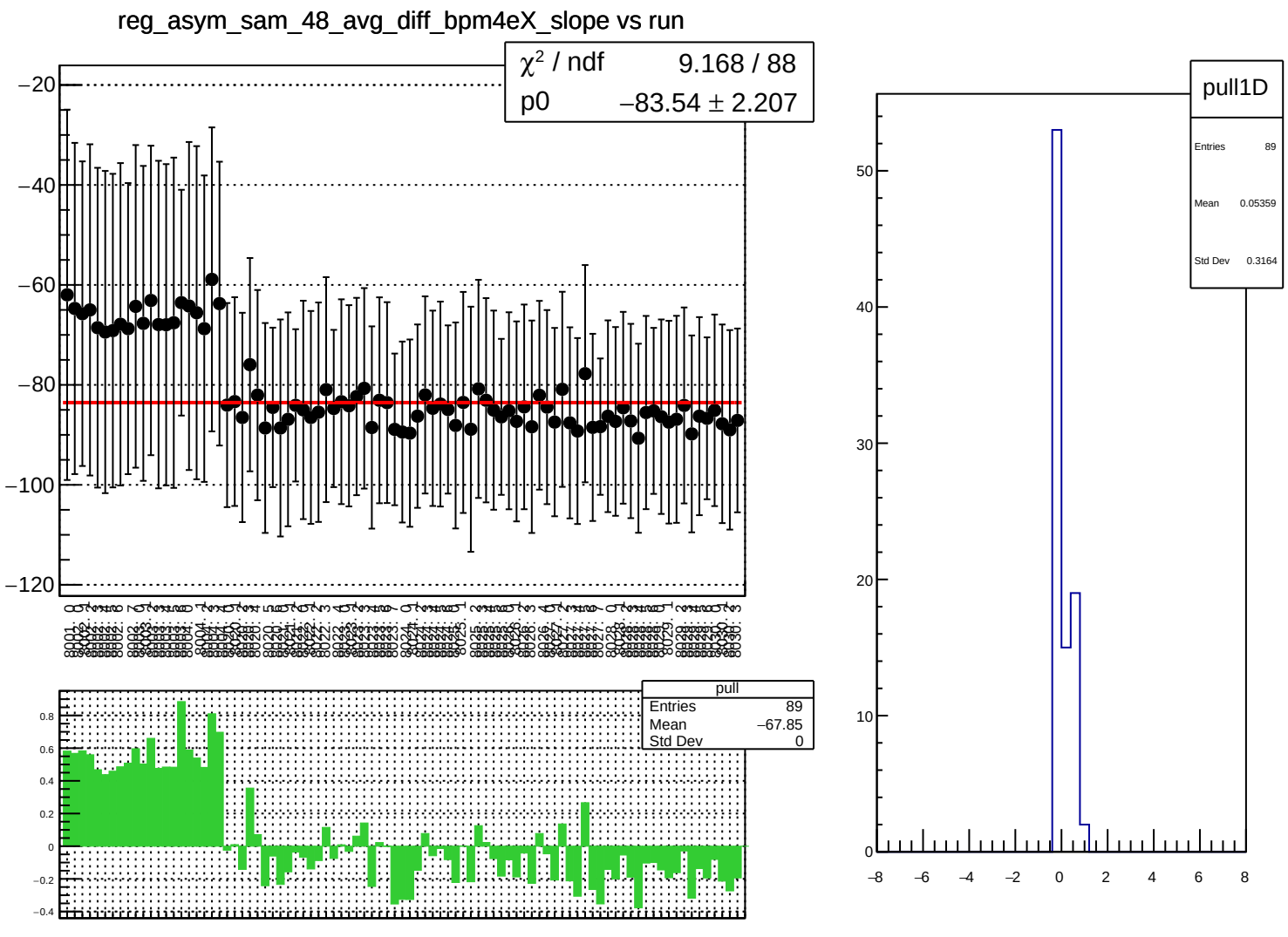

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.762 / 88
p0 −102.4 ± 3.05
−40
−60
−80
−100
−120
−140
pull
Entries 89
Mean −53.53
Std Dev 0
0.6
0.4
0.2
0
−0.2
pull1D
Entries 89
Mean 0.03315
Std Dev 0.2289
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

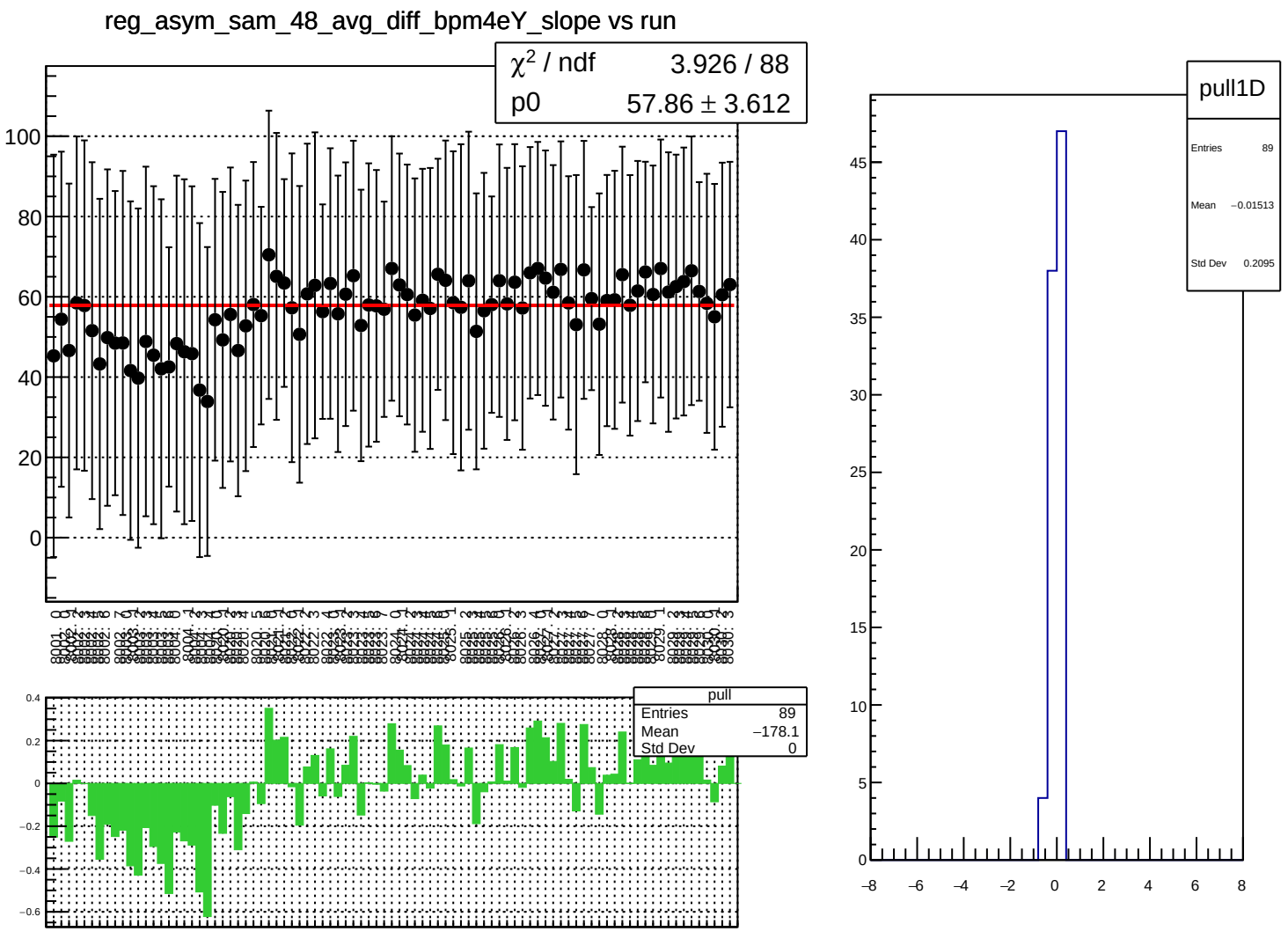

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.414 / 88
p0 1.184 ± 4.976
pull
Entries 89
Mean −552.2
Std Dev 0
pull1D
Entries 89
Mean −0.007857
Std Dev 0.2226

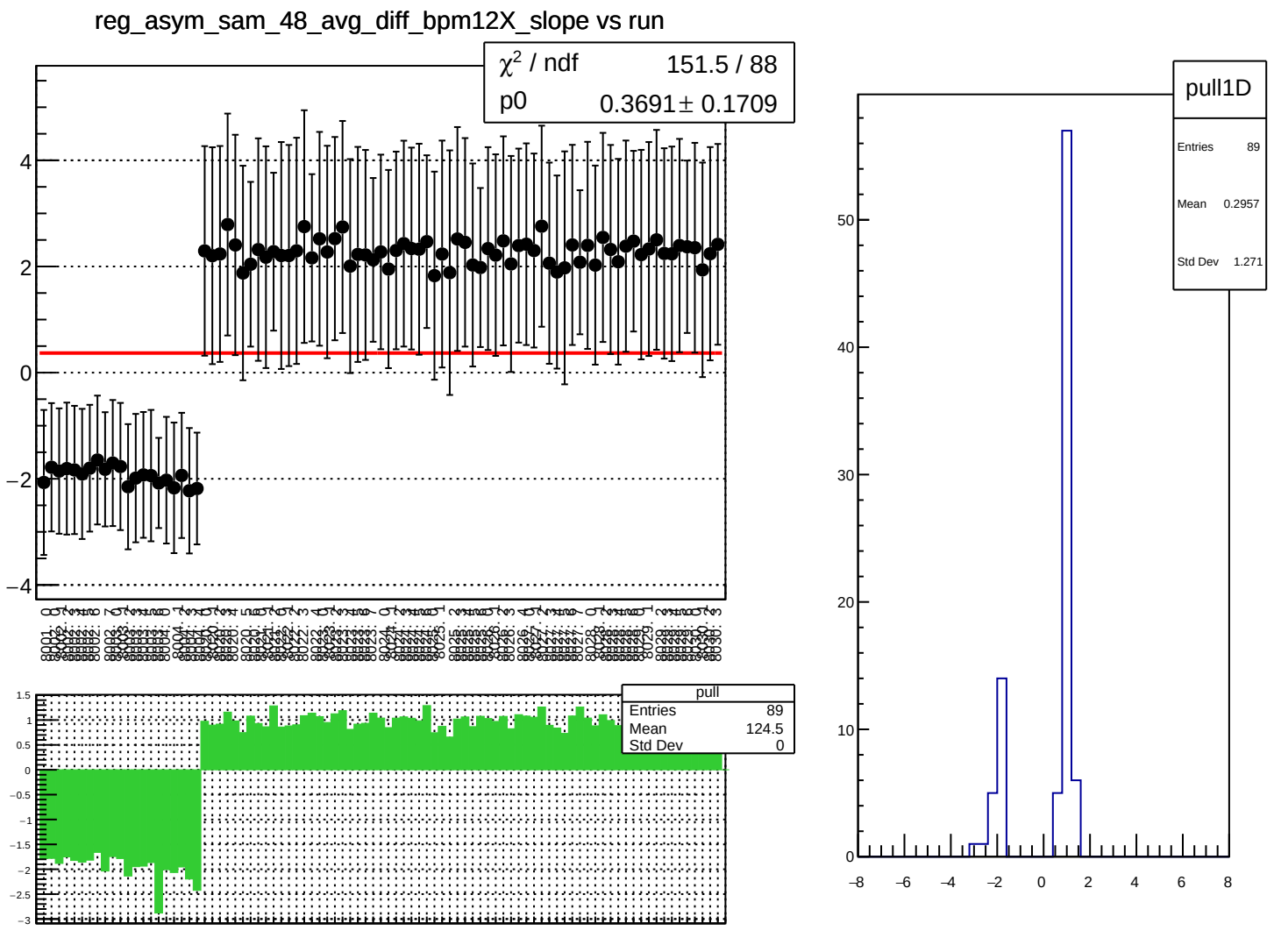

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 53.6 / 88
p0 2.332 ± 0.2314
pull
Entries 89
Mean 121.9
Std Dev 0
pull1D
Entries 89
Mean 0.1948
Std Dev 0.7512

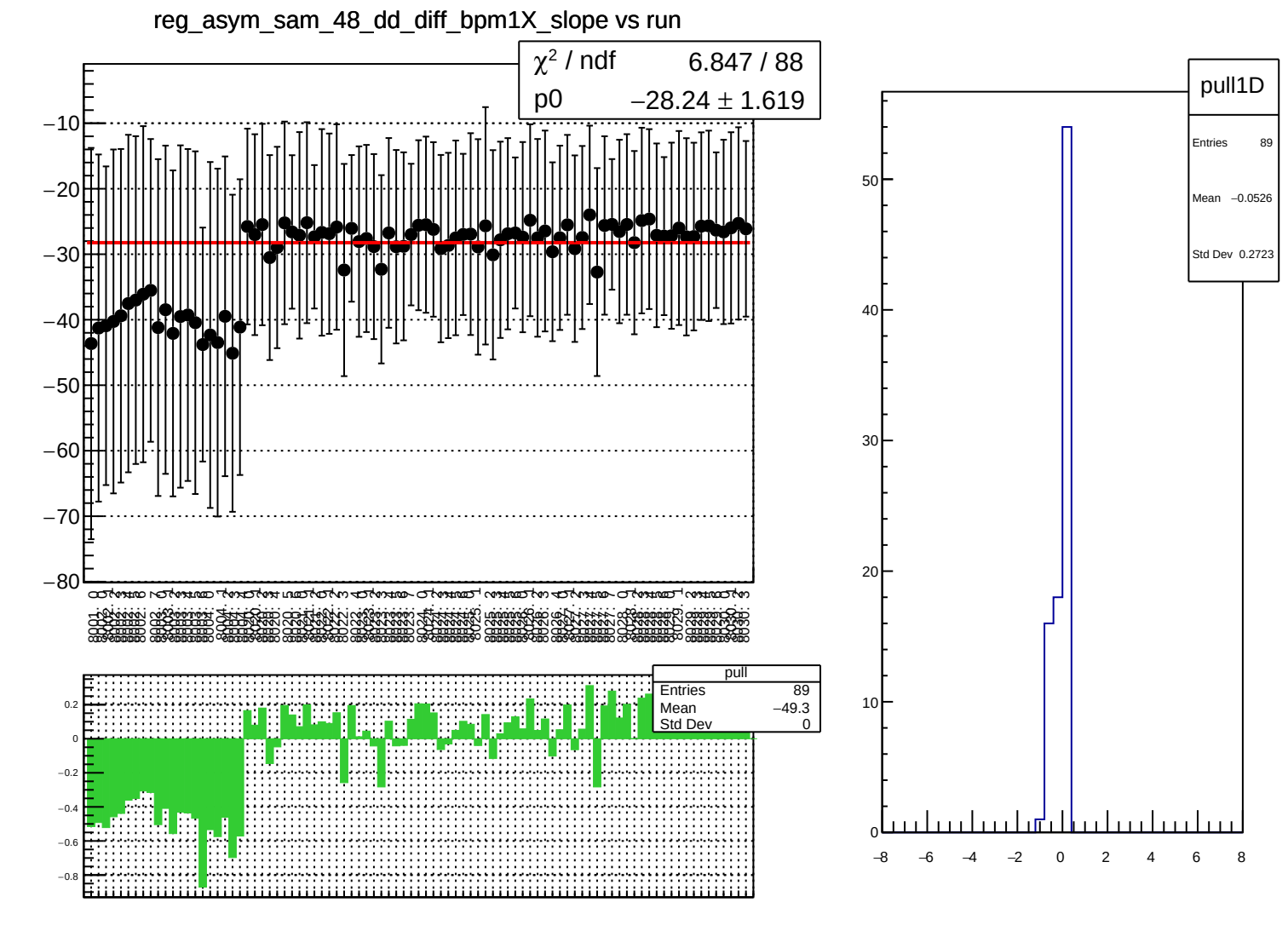

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 16.98 / 88
p0 −14.28 ± 2.104
pull
Entries 89
Mean −41.6
Std Dev 0
pull1D
Entries 89
Mean −0.09298
Std Dev 0.4267

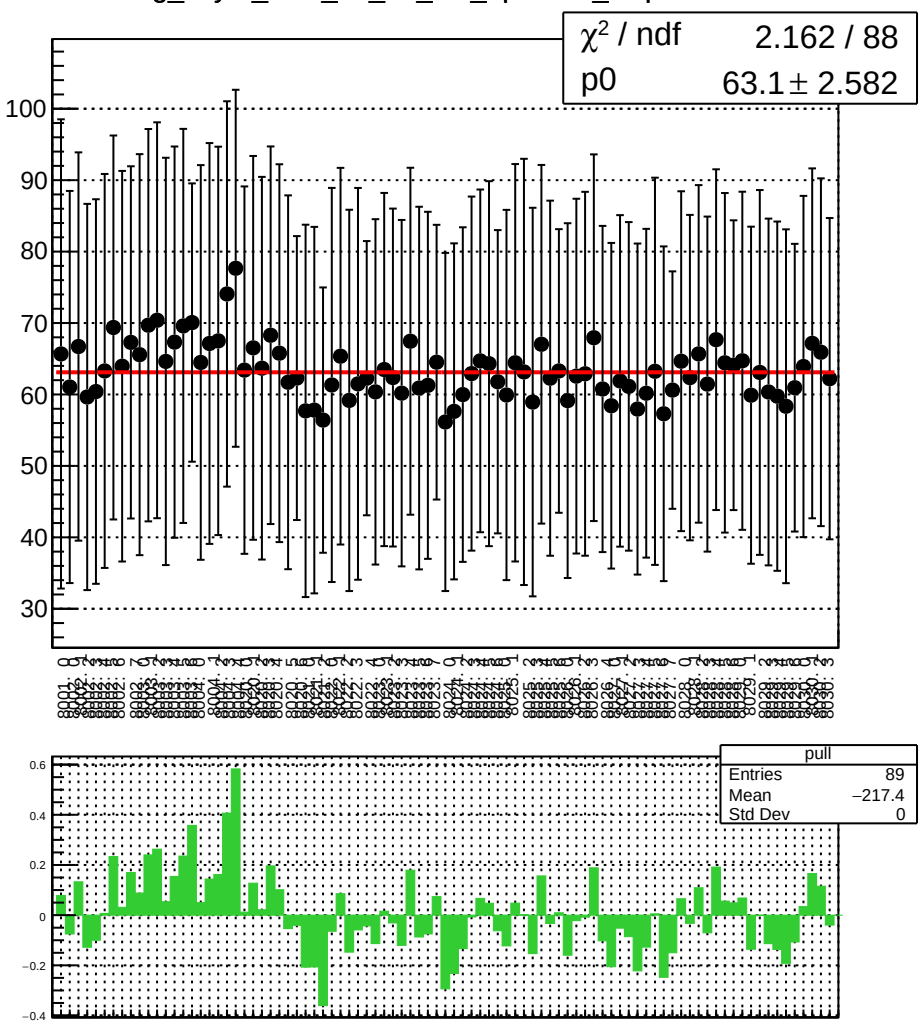

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.057 / 88
p0 53.94 ± 3.371
pull
Entries 89
Mean −213.3
Std Dev 0
pull1D
Entries 89
Mean 0.005682
Std Dev 0.1519

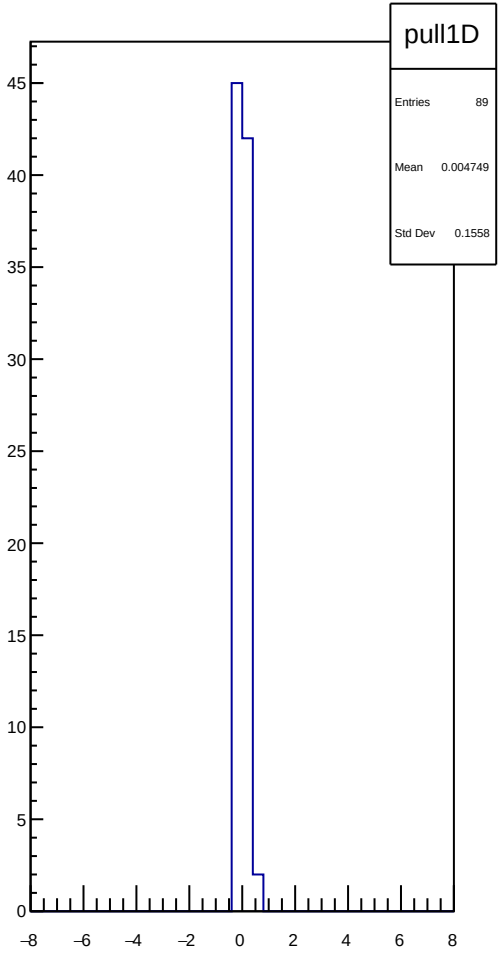

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.168 / 88
p0 −83.54 ± 2.207
pull
Entries 89
Mean −67.85
Std Dev 0
pull1D
Entries 89
Mean 0.05359
Std Dev 0.3164

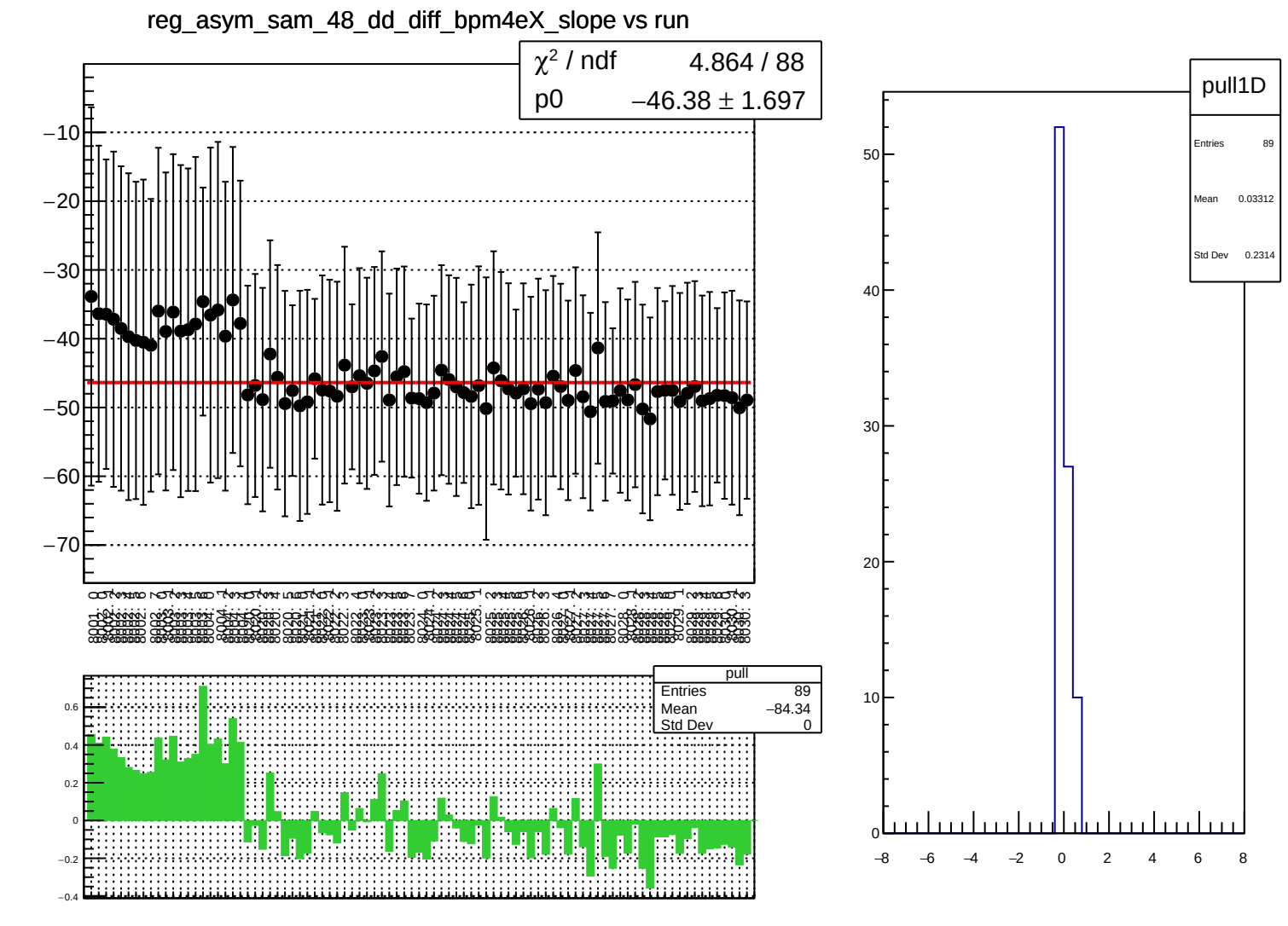

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.926 / 88
p0 57.86 ± 3.612
pull
Entries 89
Mean −178.1
Std Dev 0
pull1D
Entries 89
Mean −0.01513
Std Dev 0.2095

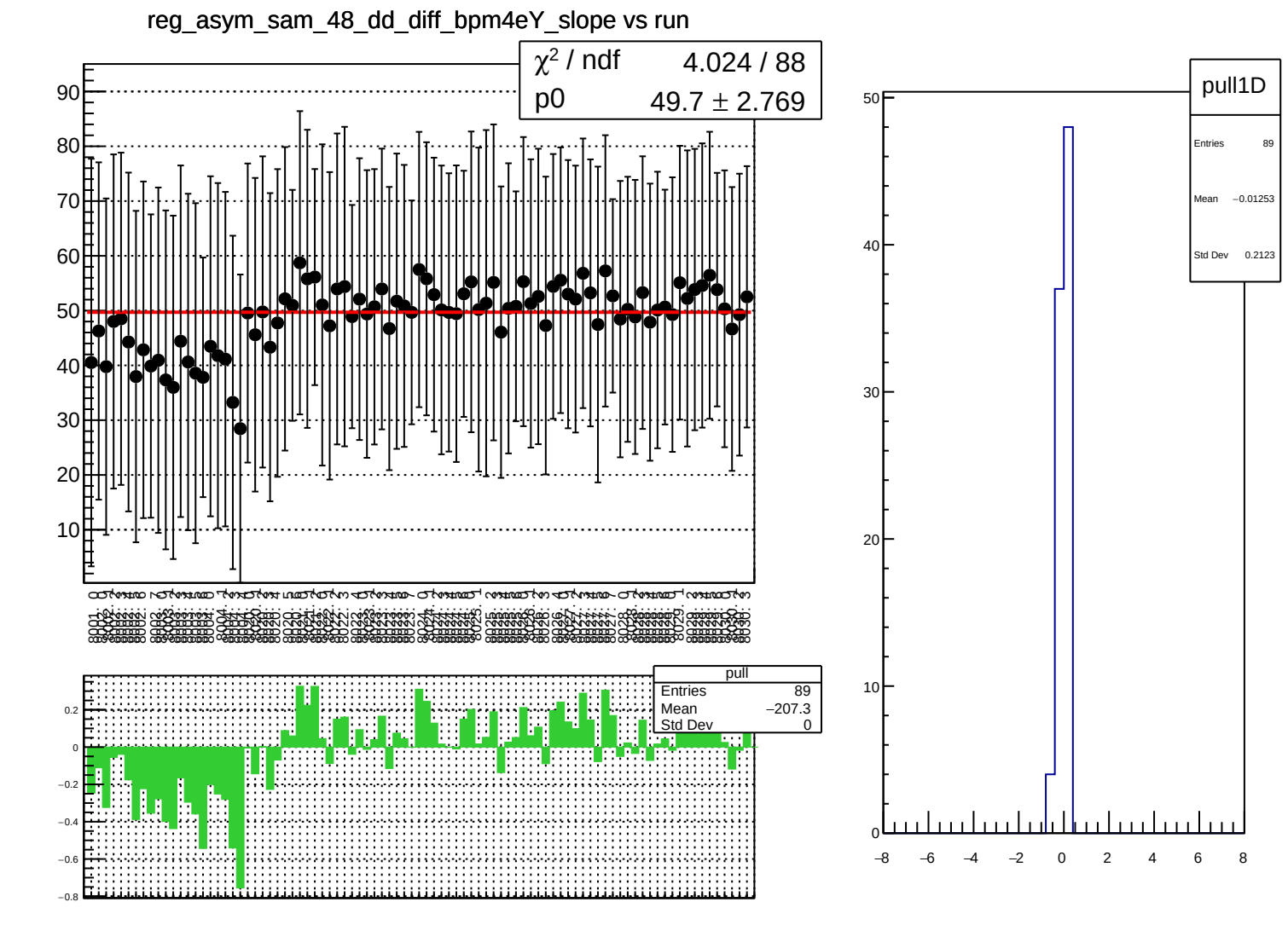

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 151.5 / 88
p0 0.3691 ± 0.1709
pull
Entries 89
Mean 124.5
Std Dev 0
pull1D
Entries 89
Mean 0.2957
Std Dev 1.271

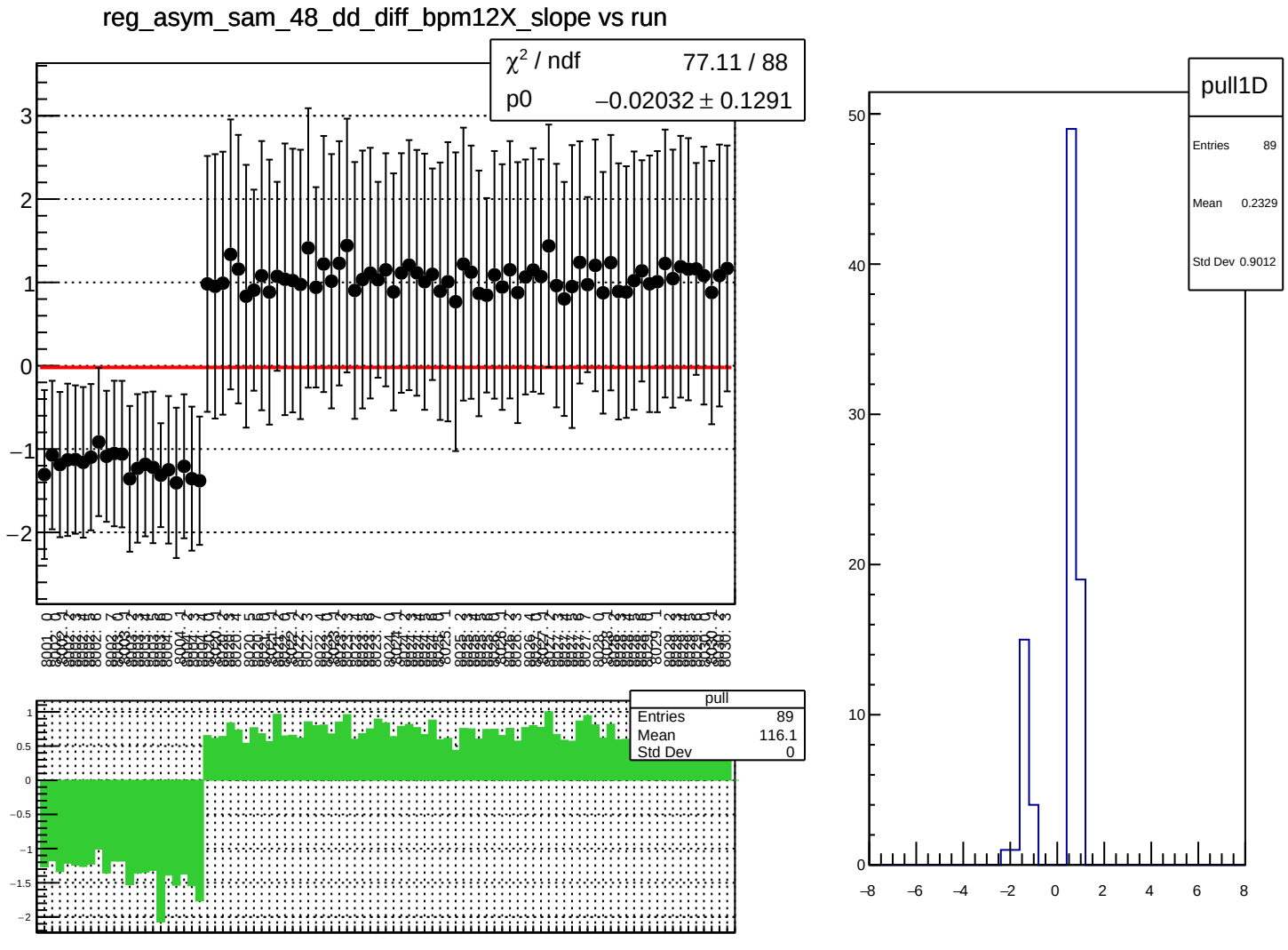

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 6.847 / 88
p0 −28.24 ± 1.619
pull
Entries 89
Mean −49.3
Std Dev 0
pull1D
Entries 89
Mean −0.0526
Std Dev 0.2723

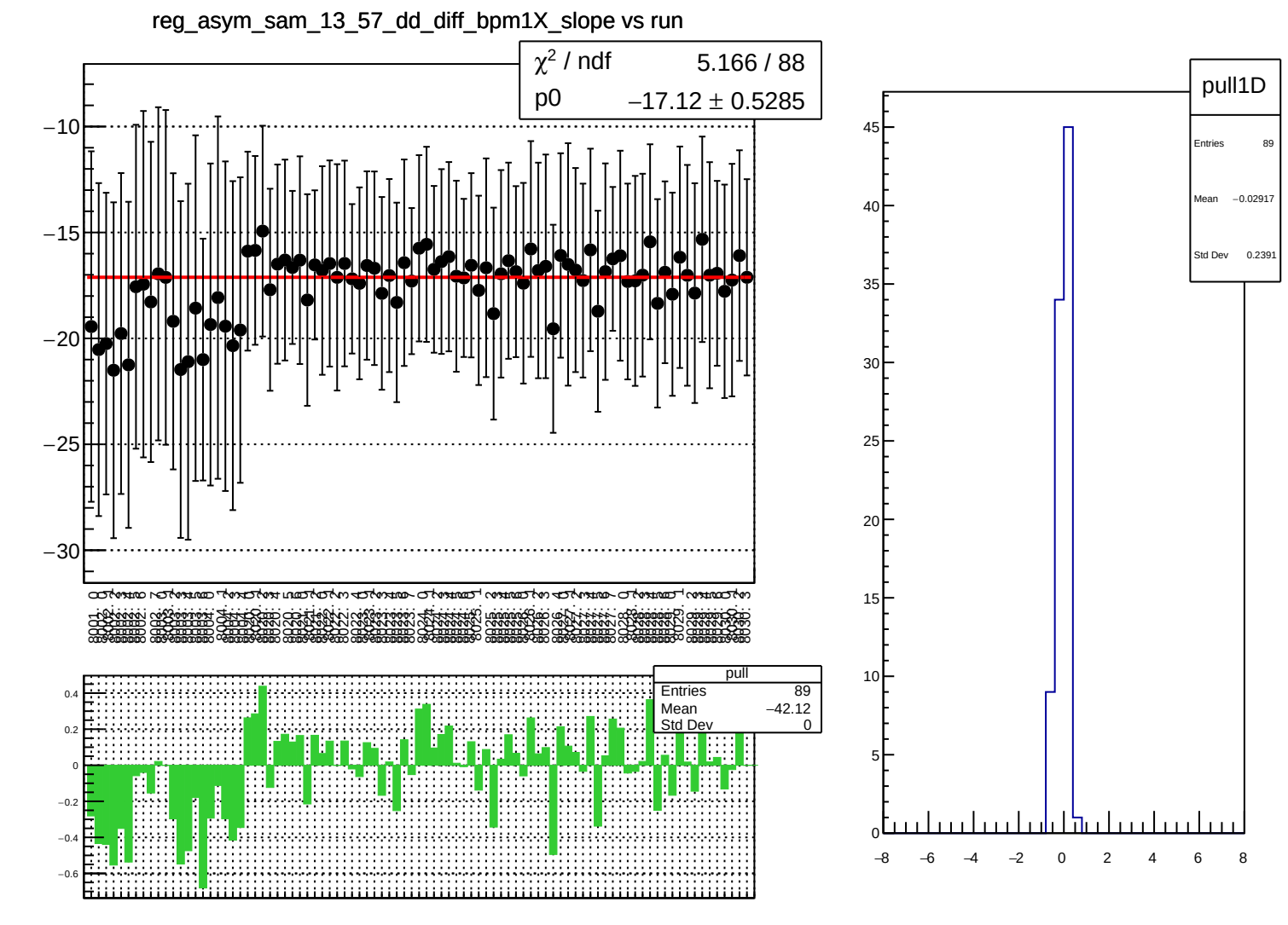

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.162 / 88
p0 63.1 ± 2.582
pull
Entries 89
Mean −217.4
Std Dev 0

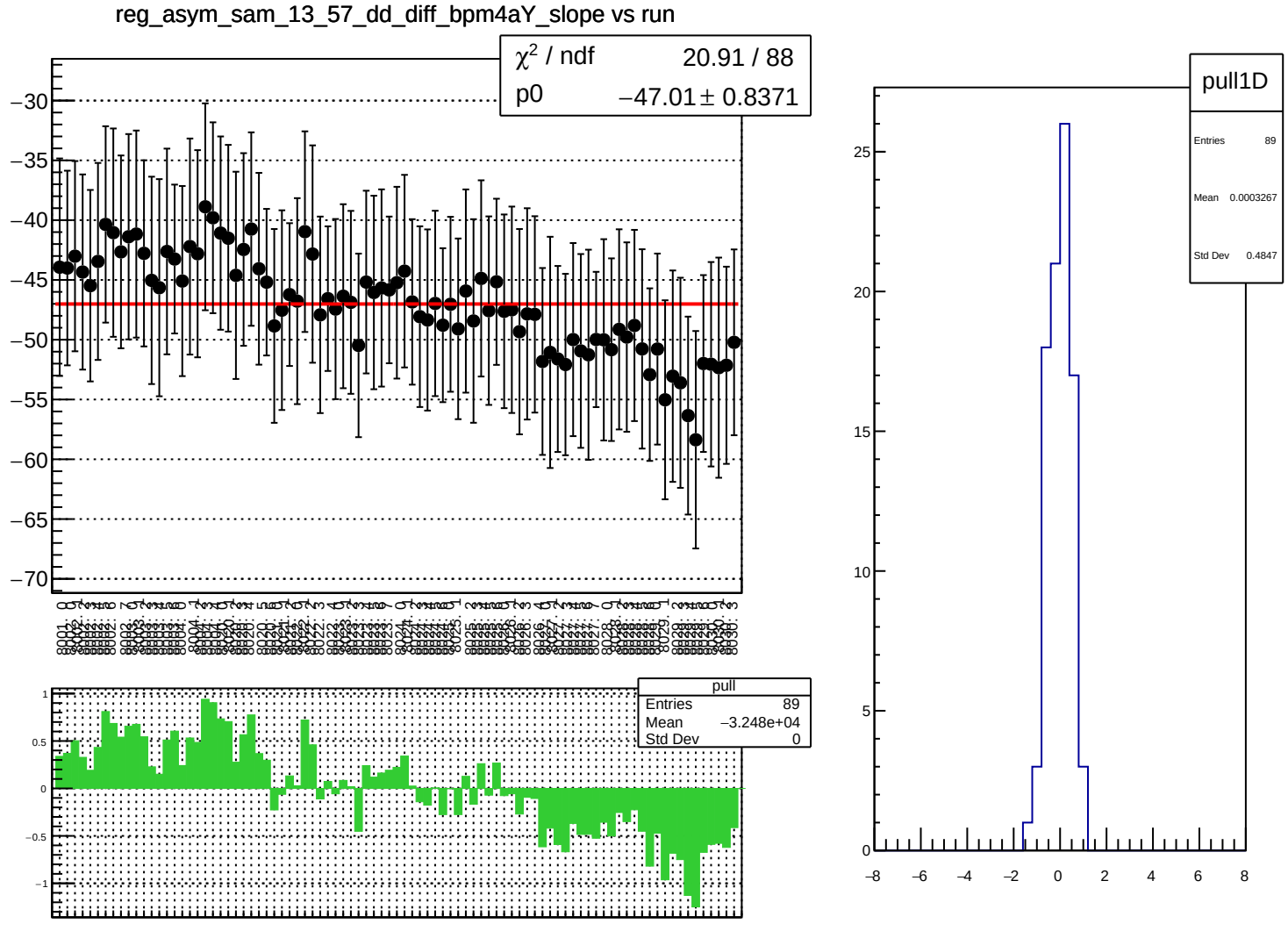

pull1D
Entries 89
Mean 0.004749
Std Dev 0.1558

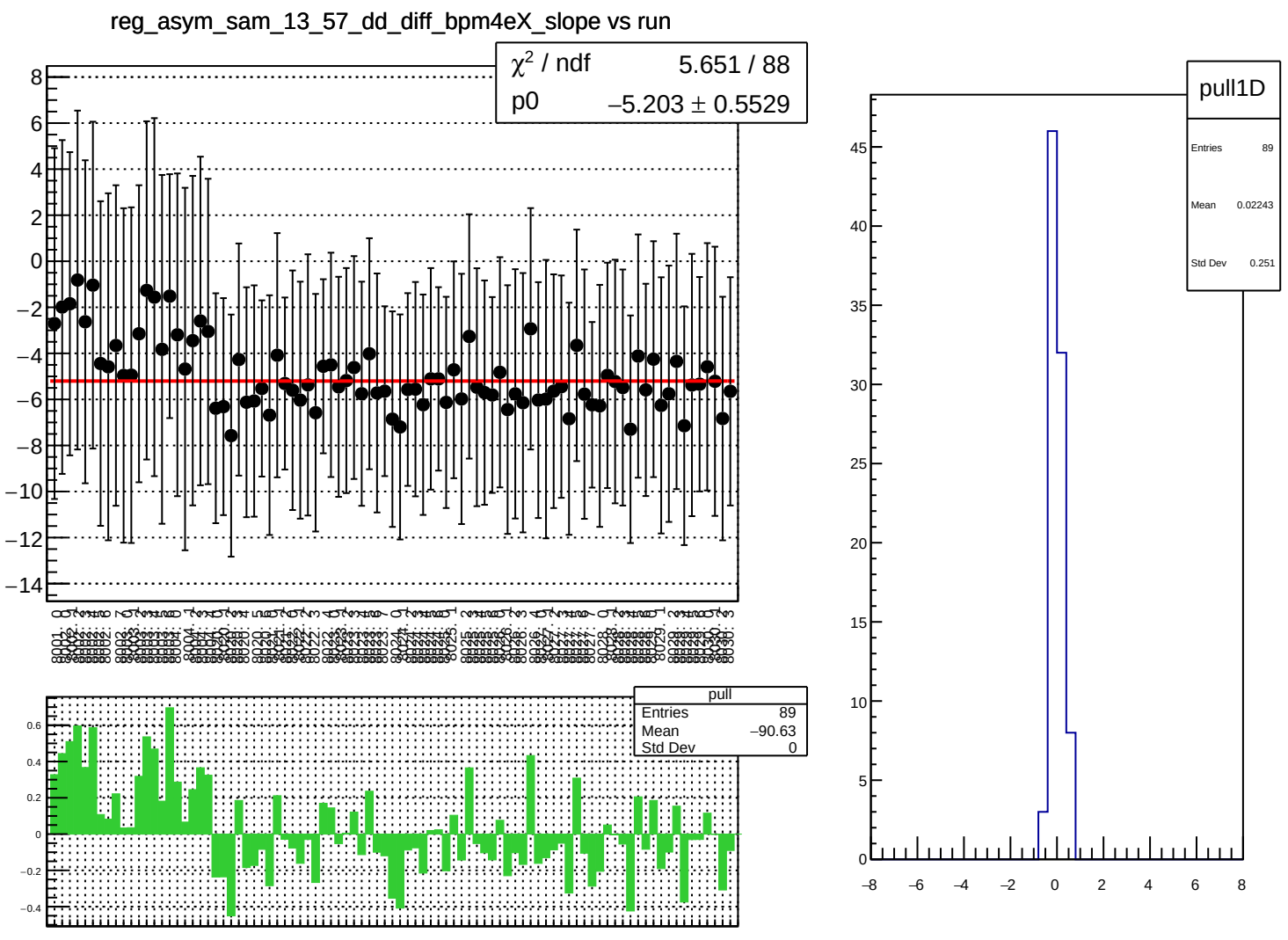

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.864 / 88
p0 −46.38 ± 1.697
−10
−20
−30
−40
−50
−60
−70
pull
Entries 89
Mean −84.34
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 89
Mean 0.03312
Std Dev 0.2314
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

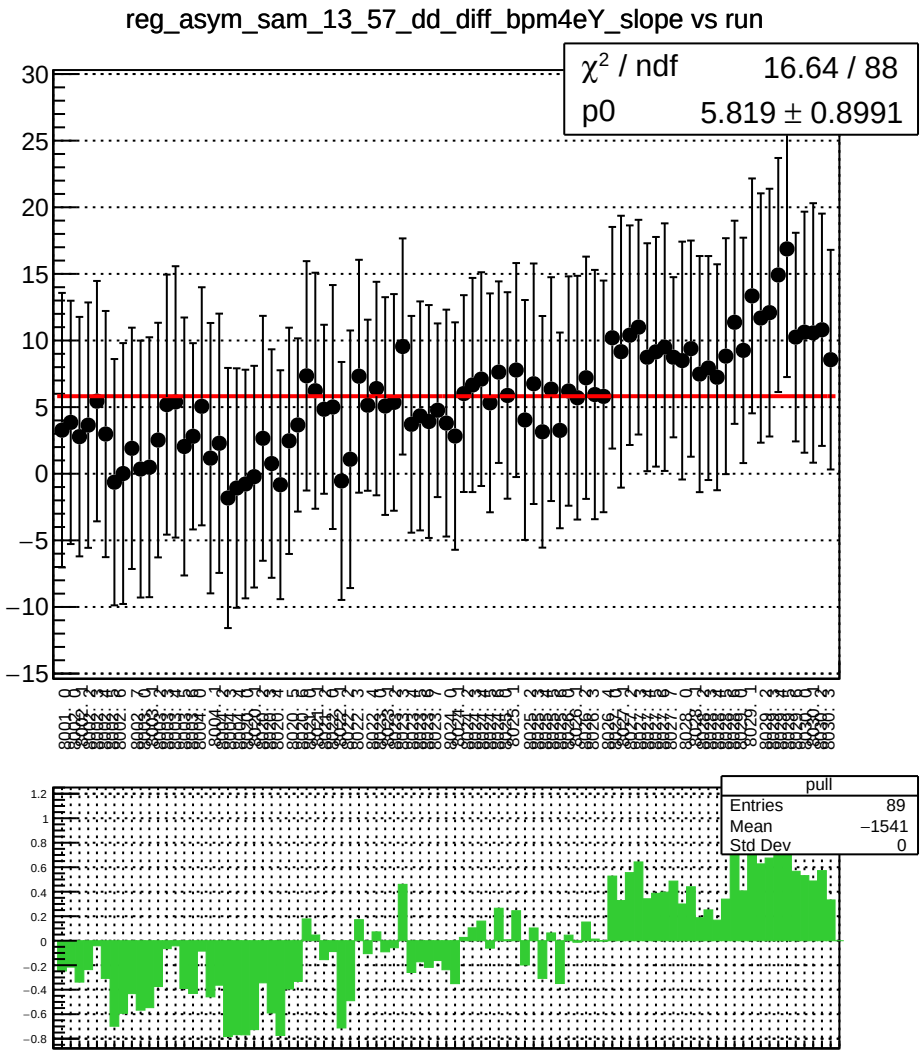

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.024 / 88
p0 49.7 ± 2.769
pull
Entries 89
Mean −207.3
Std Dev 0
pull1D
Entries 89
Mean −0.01253
Std Dev 0.2123

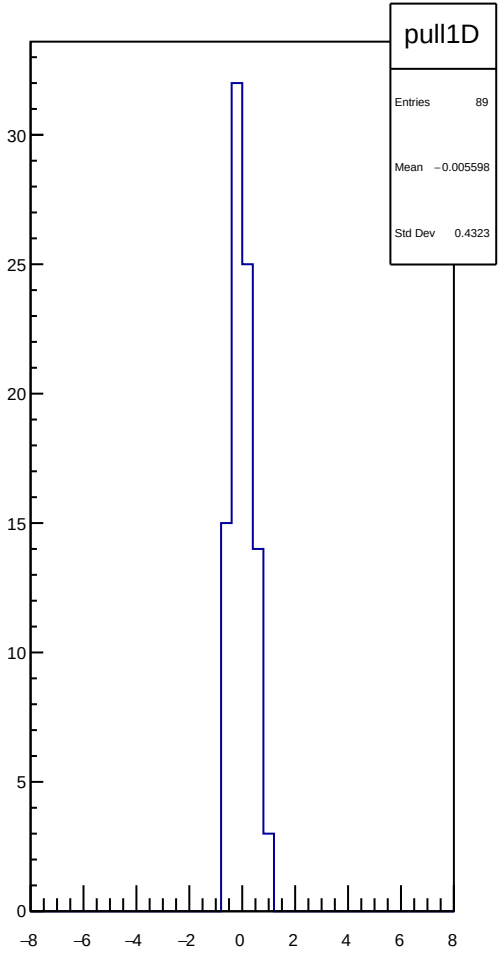

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 77.11 / 88
p0 −0.02032 ± 0.1291
pull
Entries 89
Mean 116.1
Std Dev 0
pull1D
Entries 89
Mean 0.2329
Std Dev 0.9012

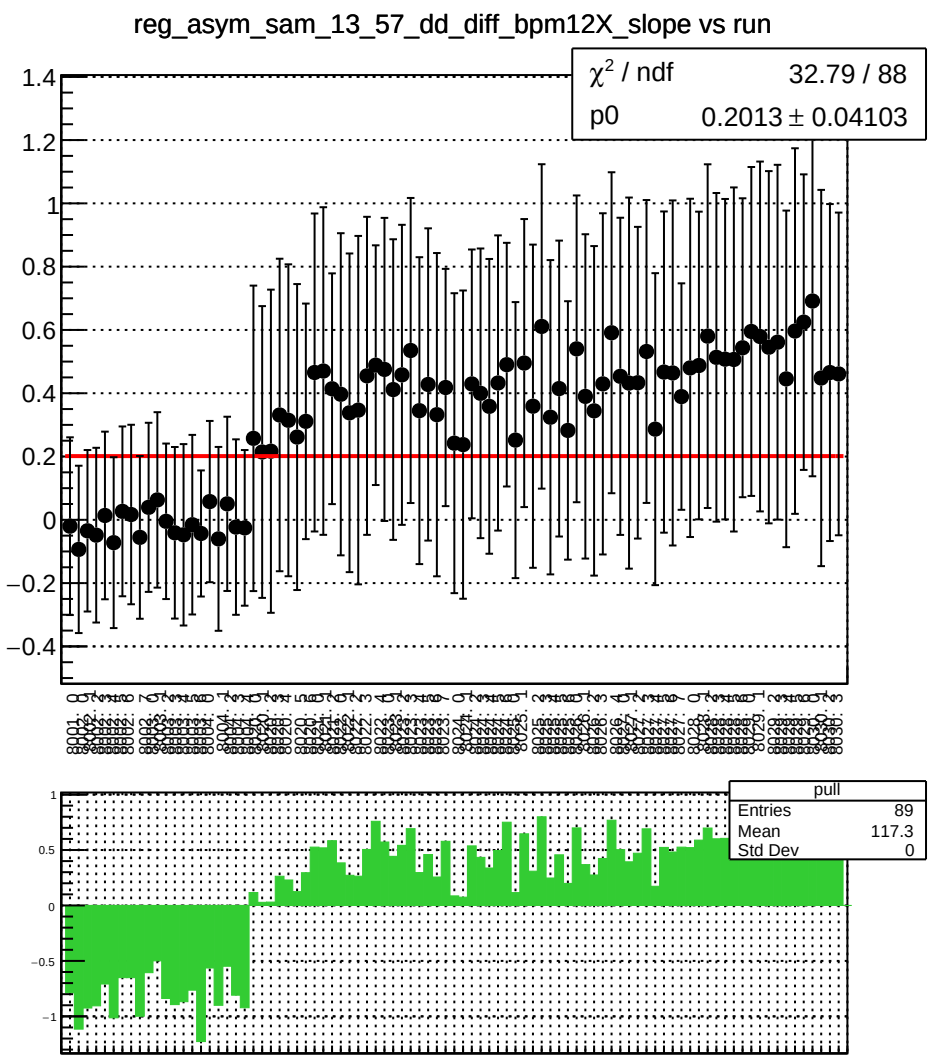

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 5.166 / 88
p0 −17.12 ± 0.5285
pull
Entries 89
Mean −42.12
Std Dev 0
pull1D
Entries 89
Mean −0.02917
Std Dev 0.2391

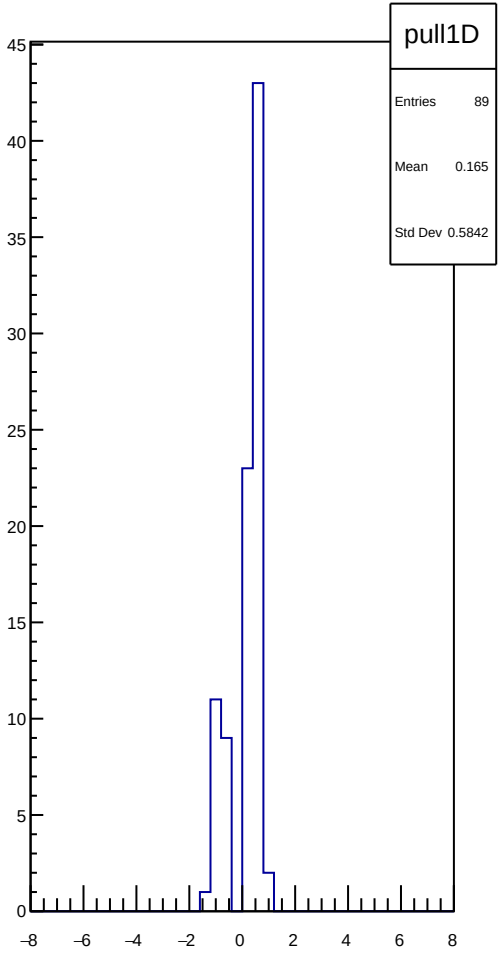

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 20.91 / 88
p0 −47.01 ± 0.8371
−30
−35
−40
−45
−50
−55
−60
−65
−70
pull
Entries 89
Mean −3.248e+04
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 89
Mean 0.0003267
Std Dev 0.4847
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

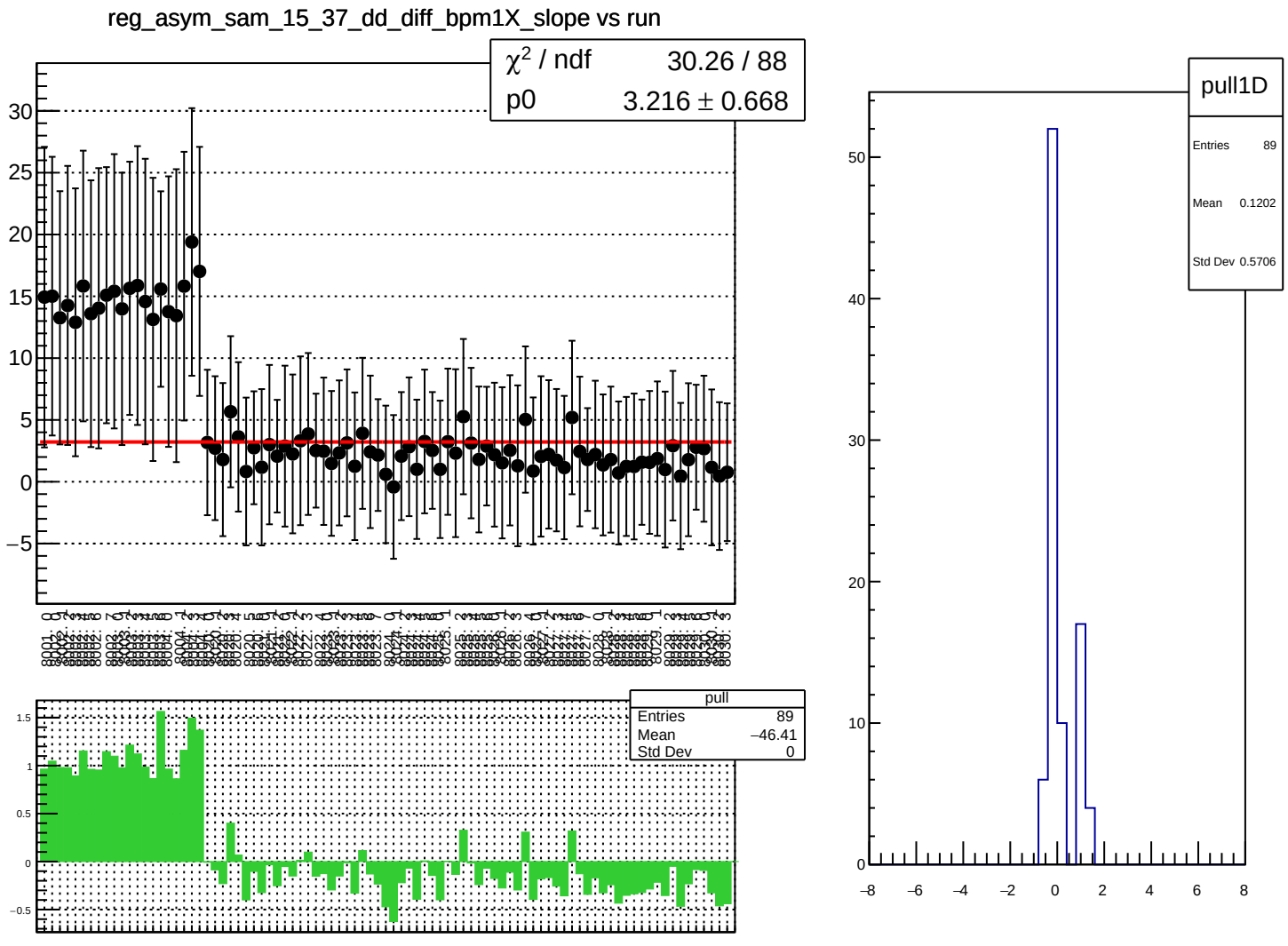

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.651 / 88
p0 −5.203 ± 0.5529
pull
Entries 89
Mean −90.63
Std Dev 0
pull1D
Entries 89
Mean 0.02243
Std Dev 0.251

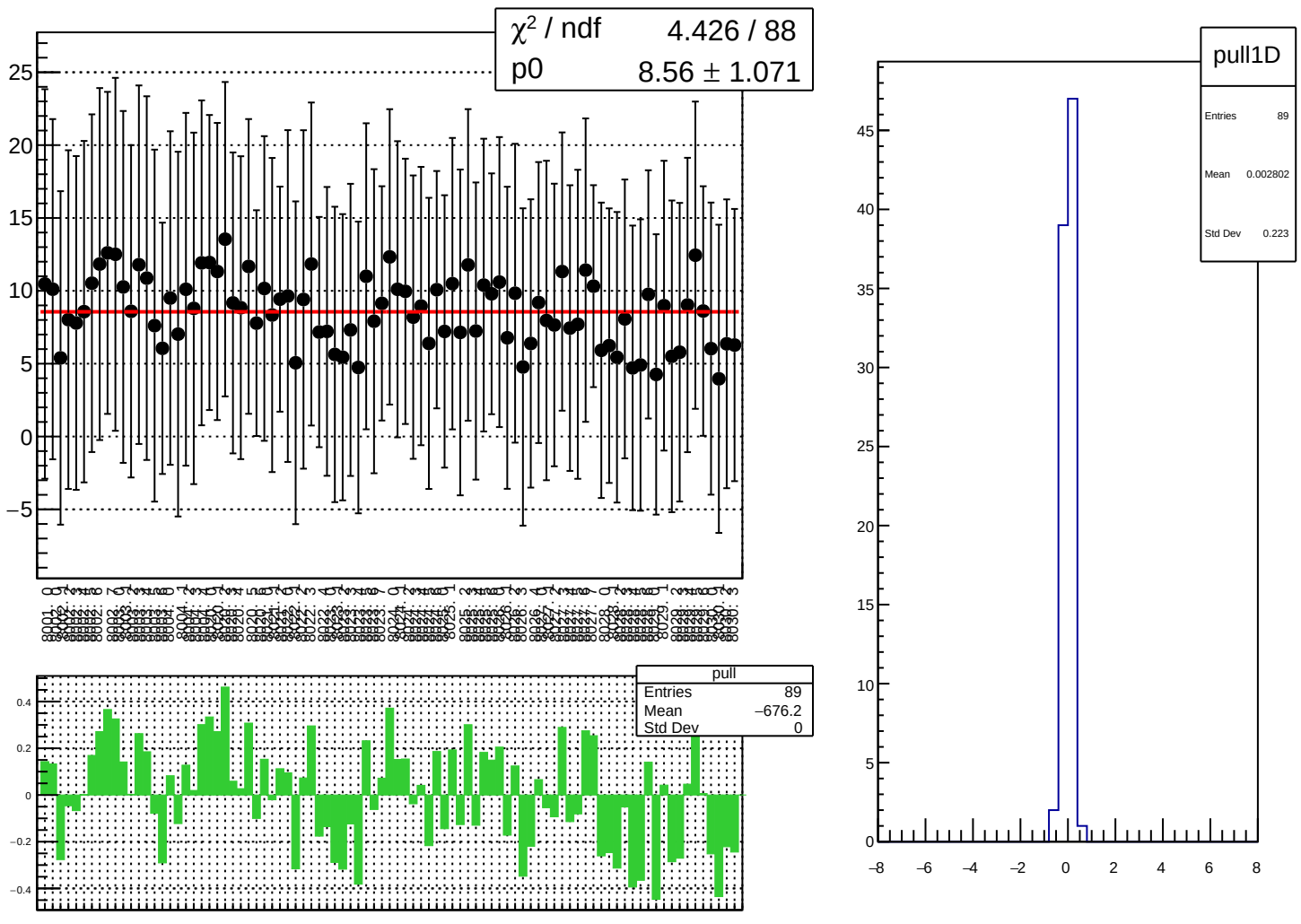

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 16.64 / 88
p0 5.819 ± 0.8991
pull
Entries 89
Mean −1541
Std Dev 0

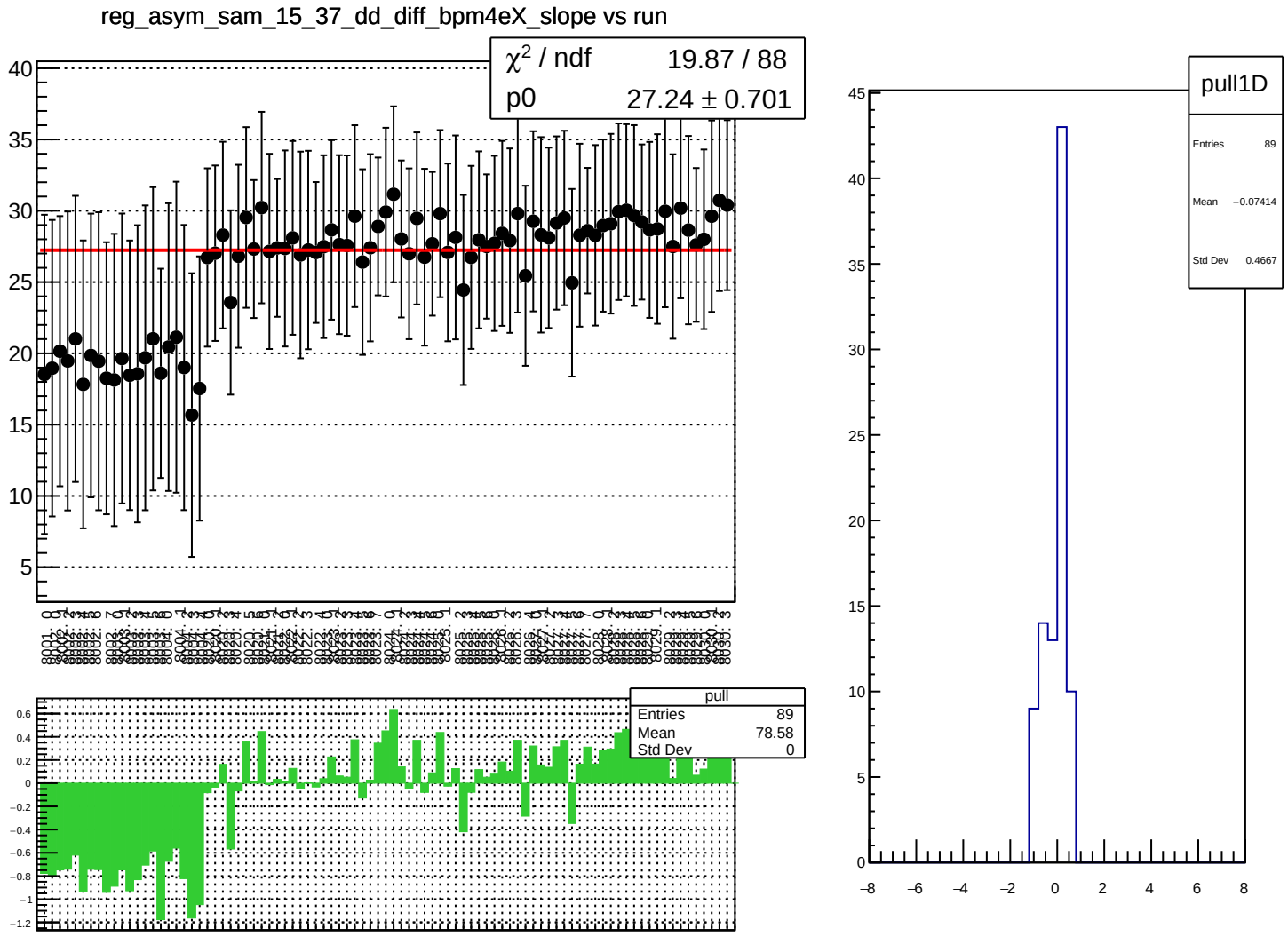

pull1D
Entries 89
Mean −0.005598
Std Dev 0.4323

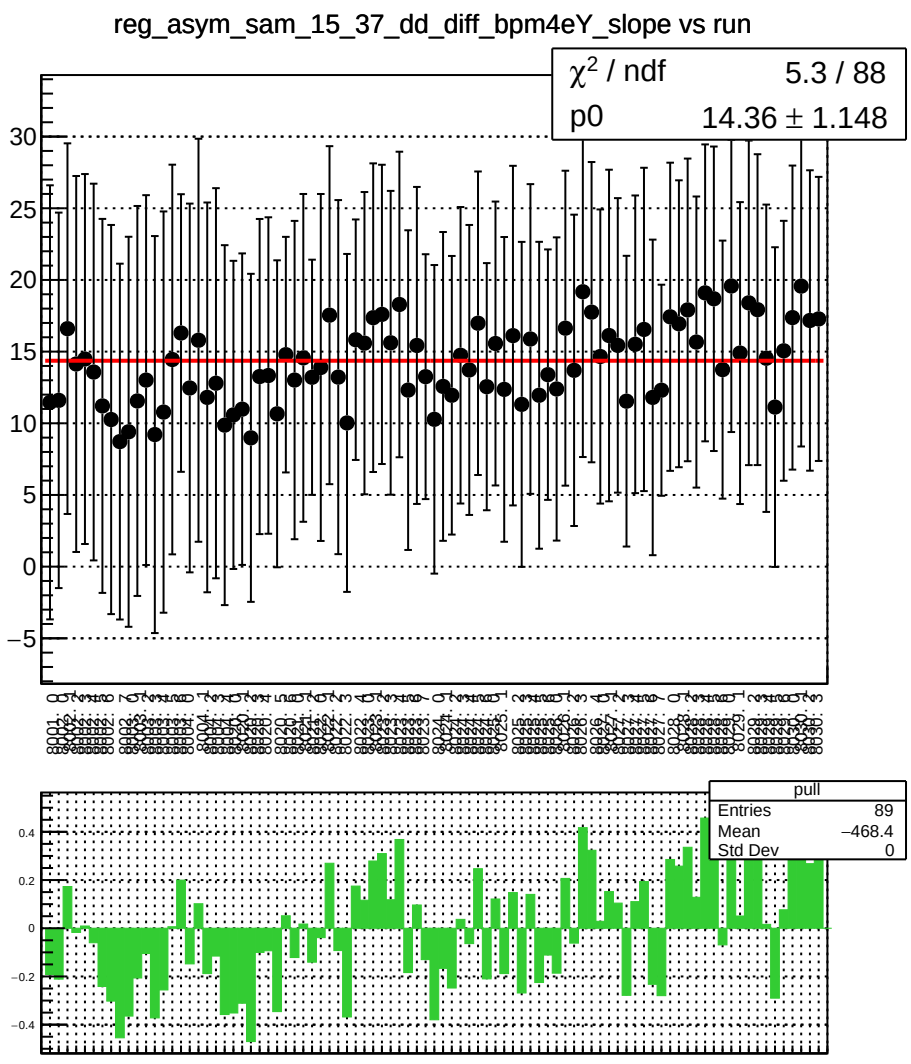

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 32.79 / 88
p0 0.2013 ± 0.04103
pull
Entries 89
Mean 117.3
Std Dev 0

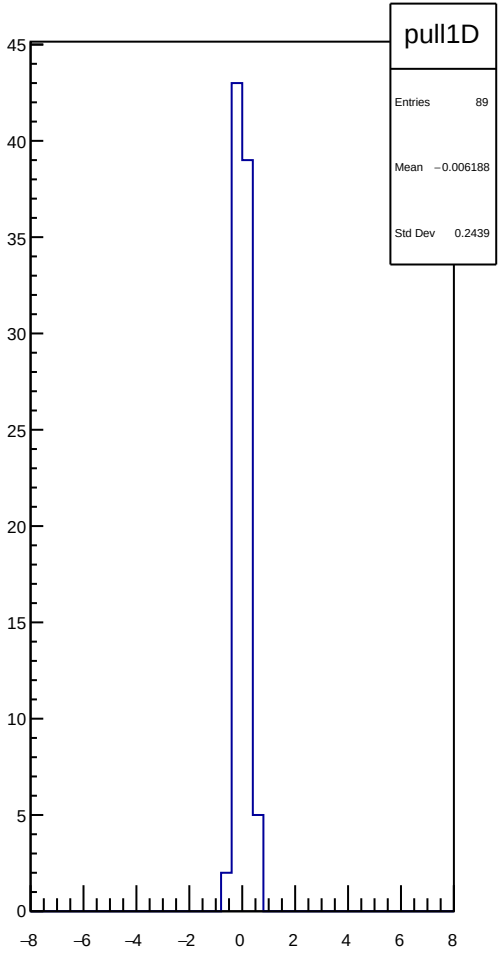

pull1D
Entries 89
Mean 0.165
Std Dev 0.5842

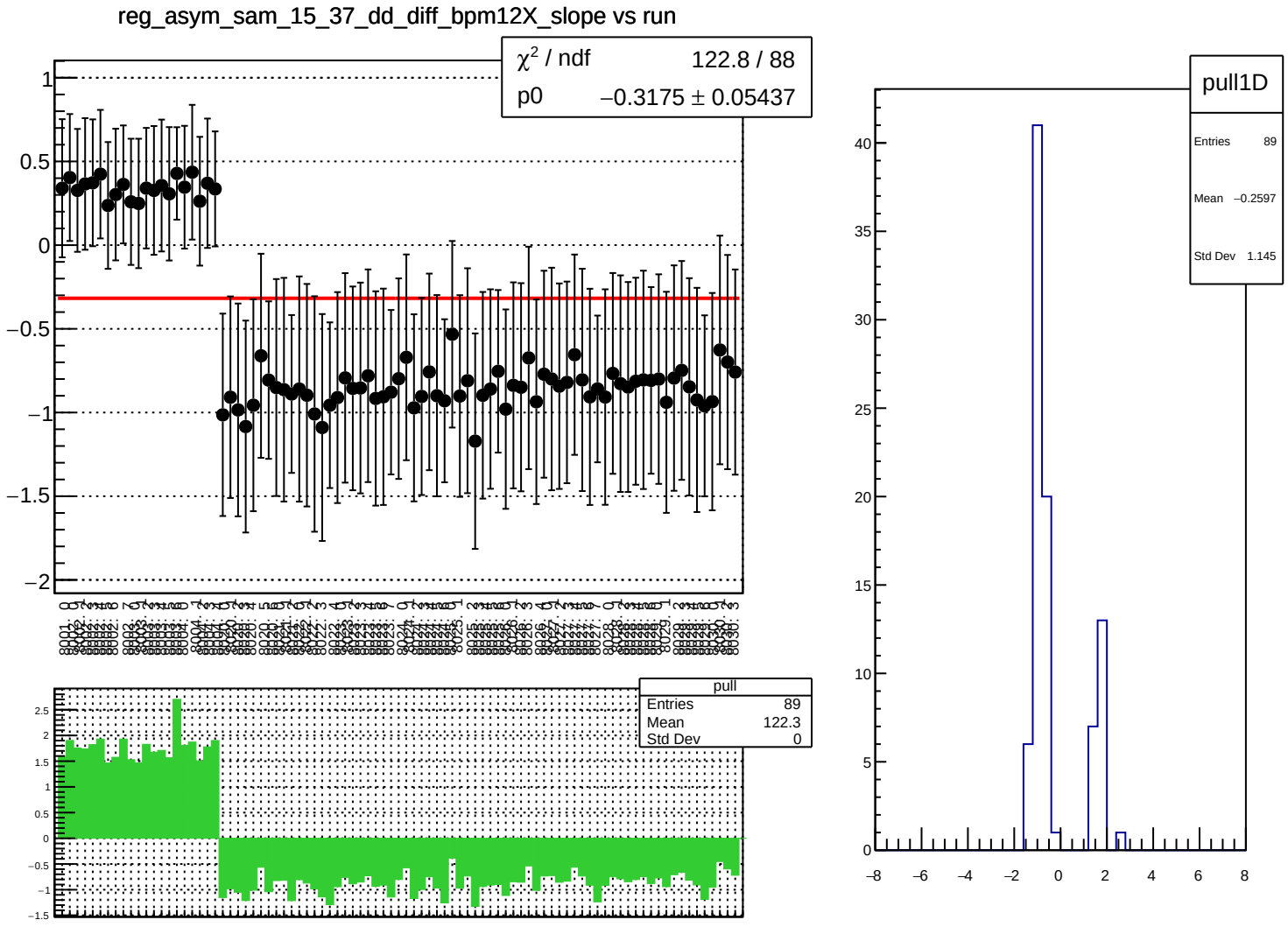

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 30.26 / 88
p0 3.216 ± 0.668
pull
Entries 89
Mean −46.41
Std Dev 0
pull1D
Entries 89
Mean 0.1202
Std Dev 0.5706

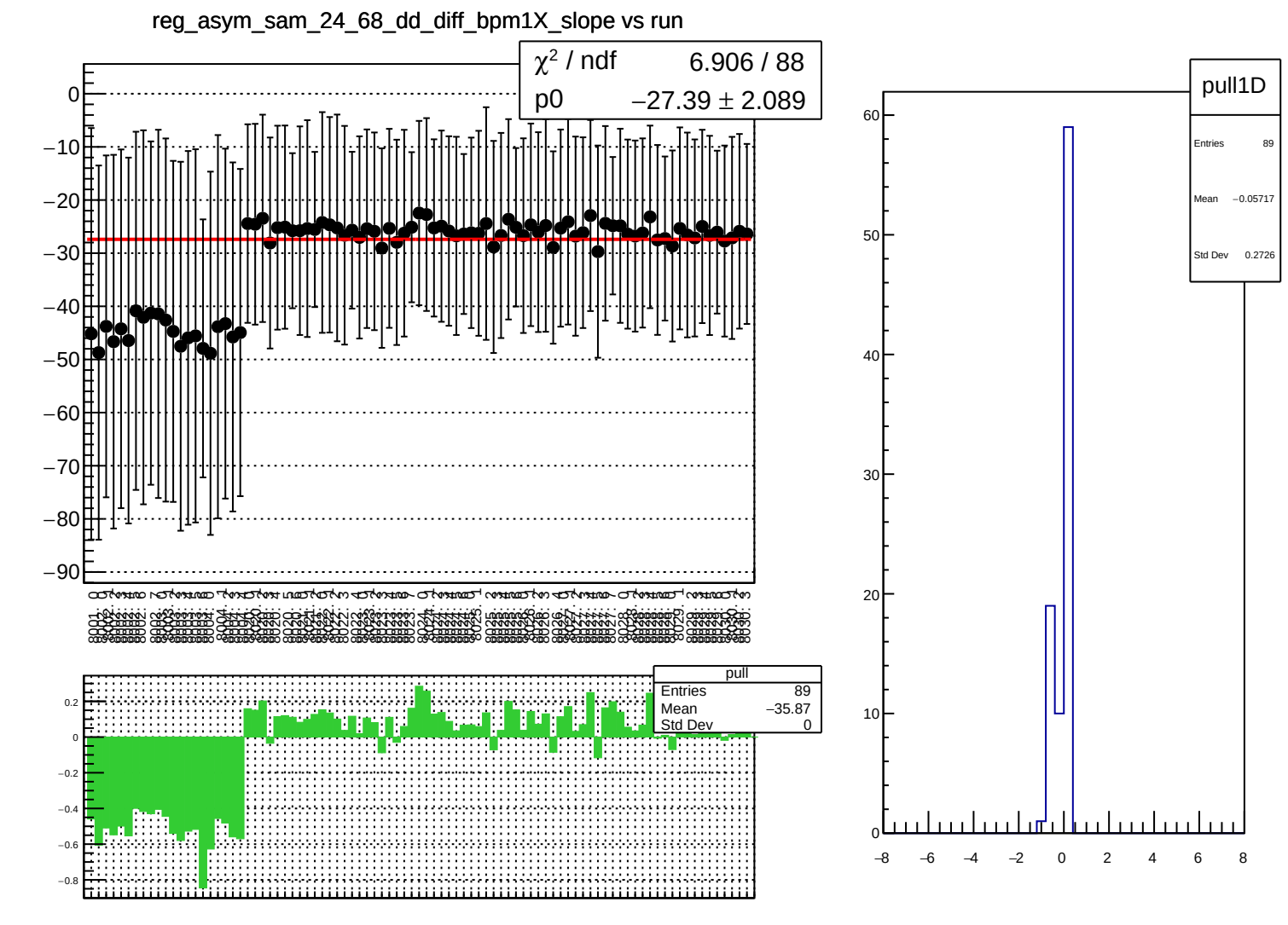

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.426 / 88
p0 8.56 ± 1.071
pull
Entries 89
Mean −676.2
Std Dev 0
pull1D
Entries 89
Mean 0.002802
Std Dev 0.223

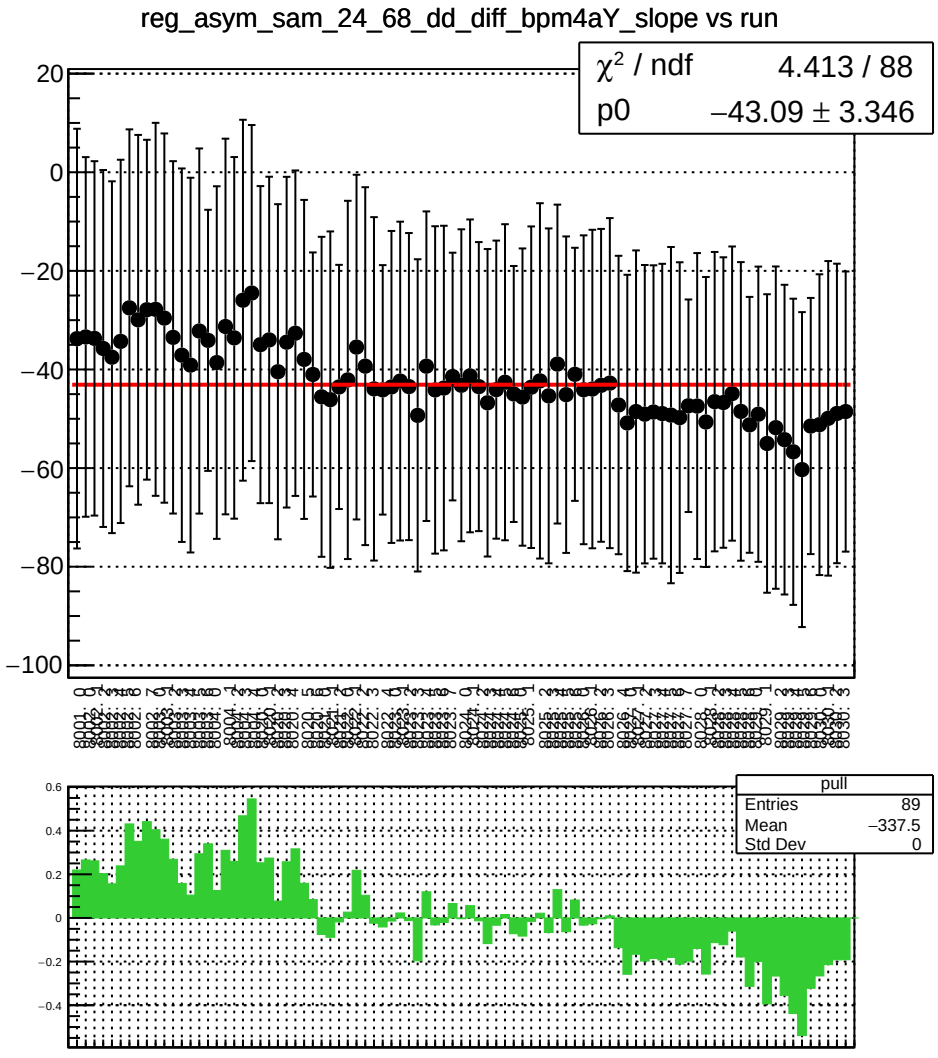

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 19.87 / 88
p0 27.24 ± 0.701
pull
Entries 89
Mean −78.58
Std Dev 0
pull1D
Entries 89
Mean −0.07414
Std Dev 0.4667

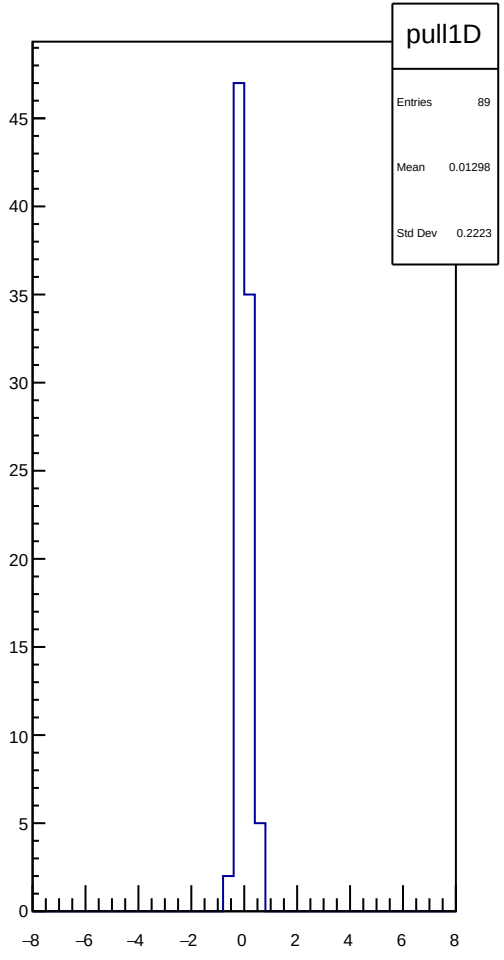

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.3 / 88
p0 14.36 ± 1.148
pull
Entries 89
Mean −468.4
Std Dev 0

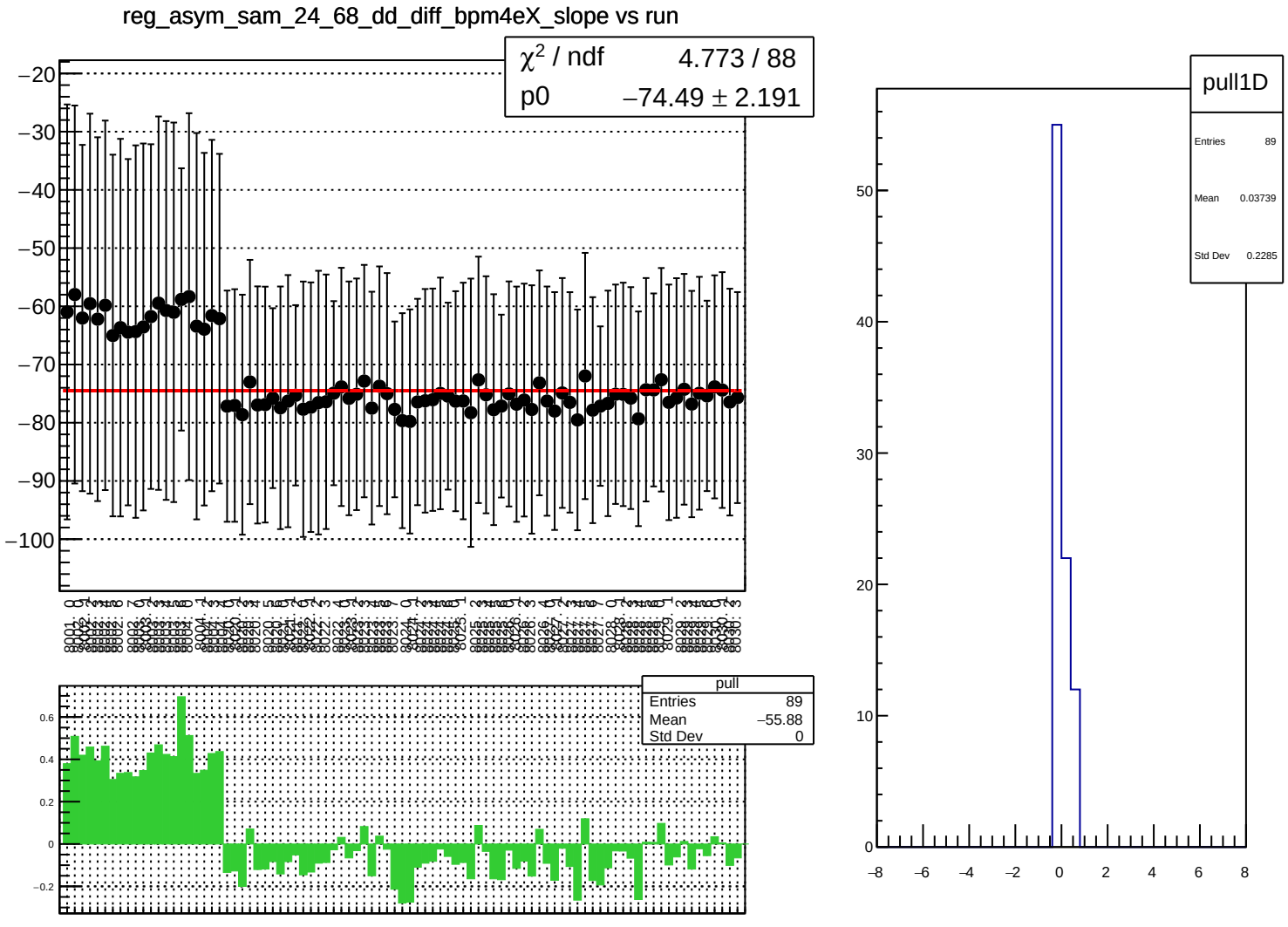

pull1D
Entries 89
Mean −0.006188
Std Dev 0.2439

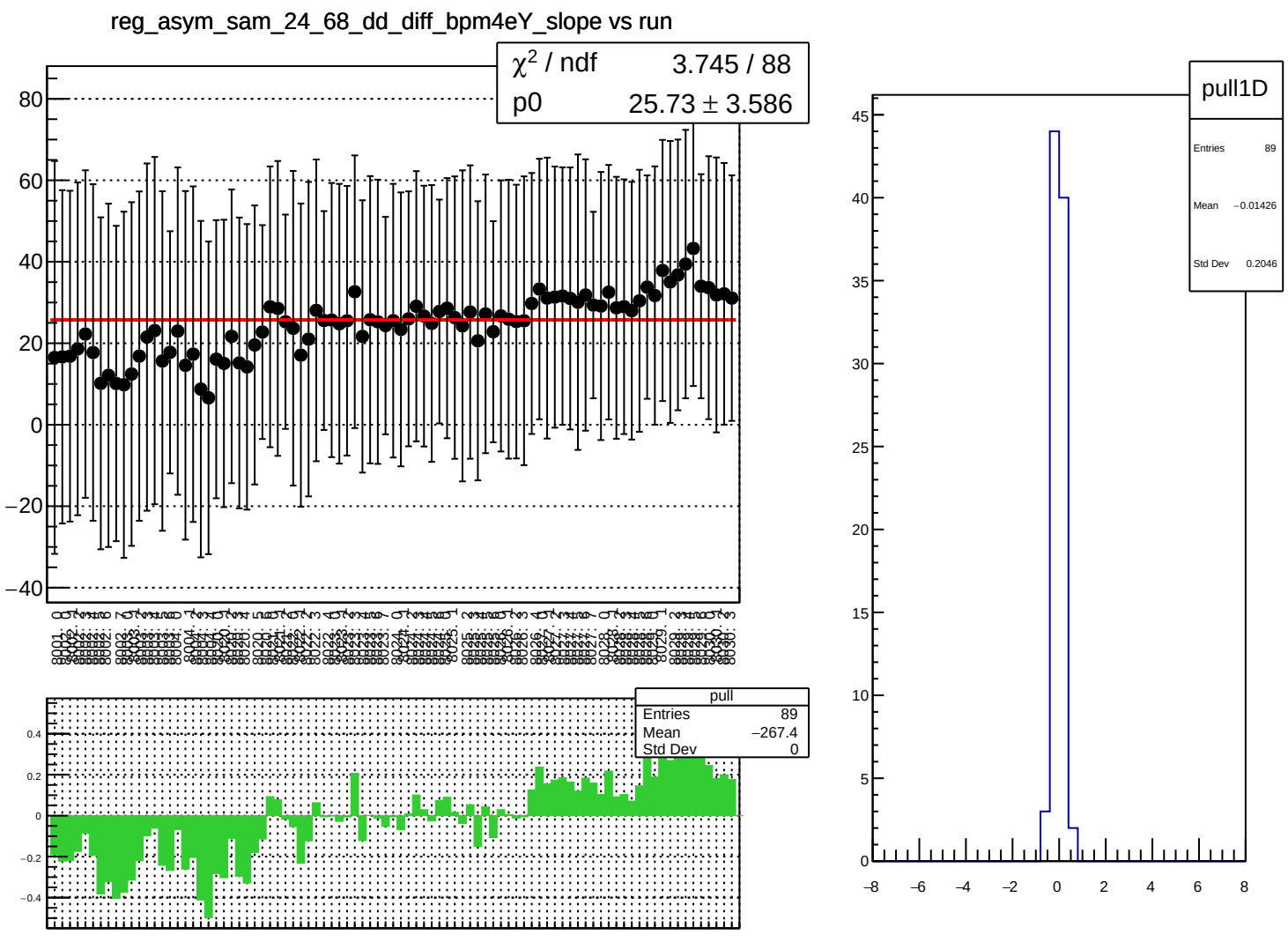

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 122.8 / 88
p0 −0.3175 ± 0.05437
pull
Entries 89
Mean 122.3
Std Dev 0
pull1D
Entries 89
Mean −0.2597
Std Dev 1.145

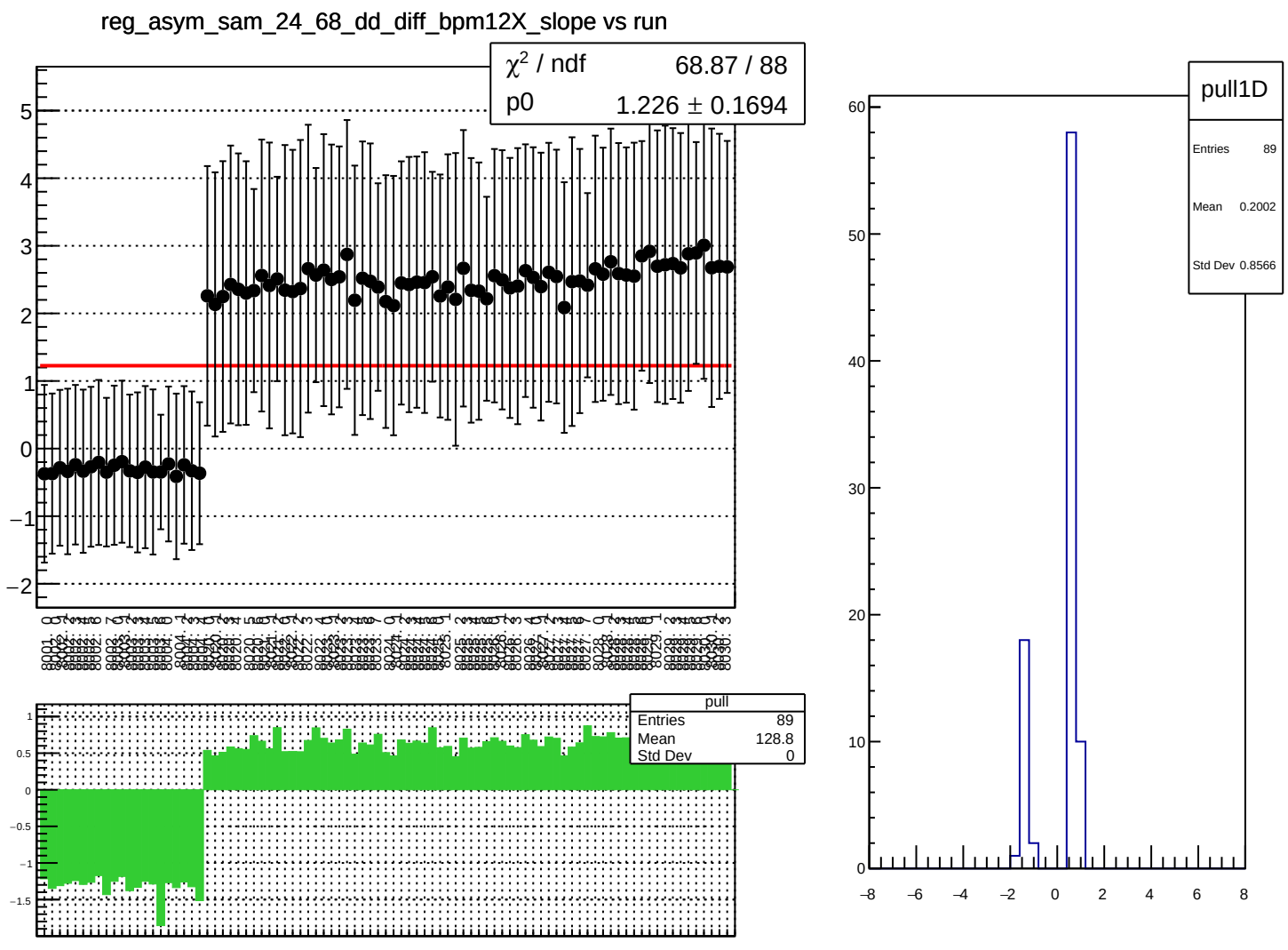

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 6.906 / 88
p0 −27.39 ± 2.089
pull
Entries 89
Mean −35.87
Std Dev 0
pull1D
Entries 89
Mean −0.05717
Std Dev 0.2726

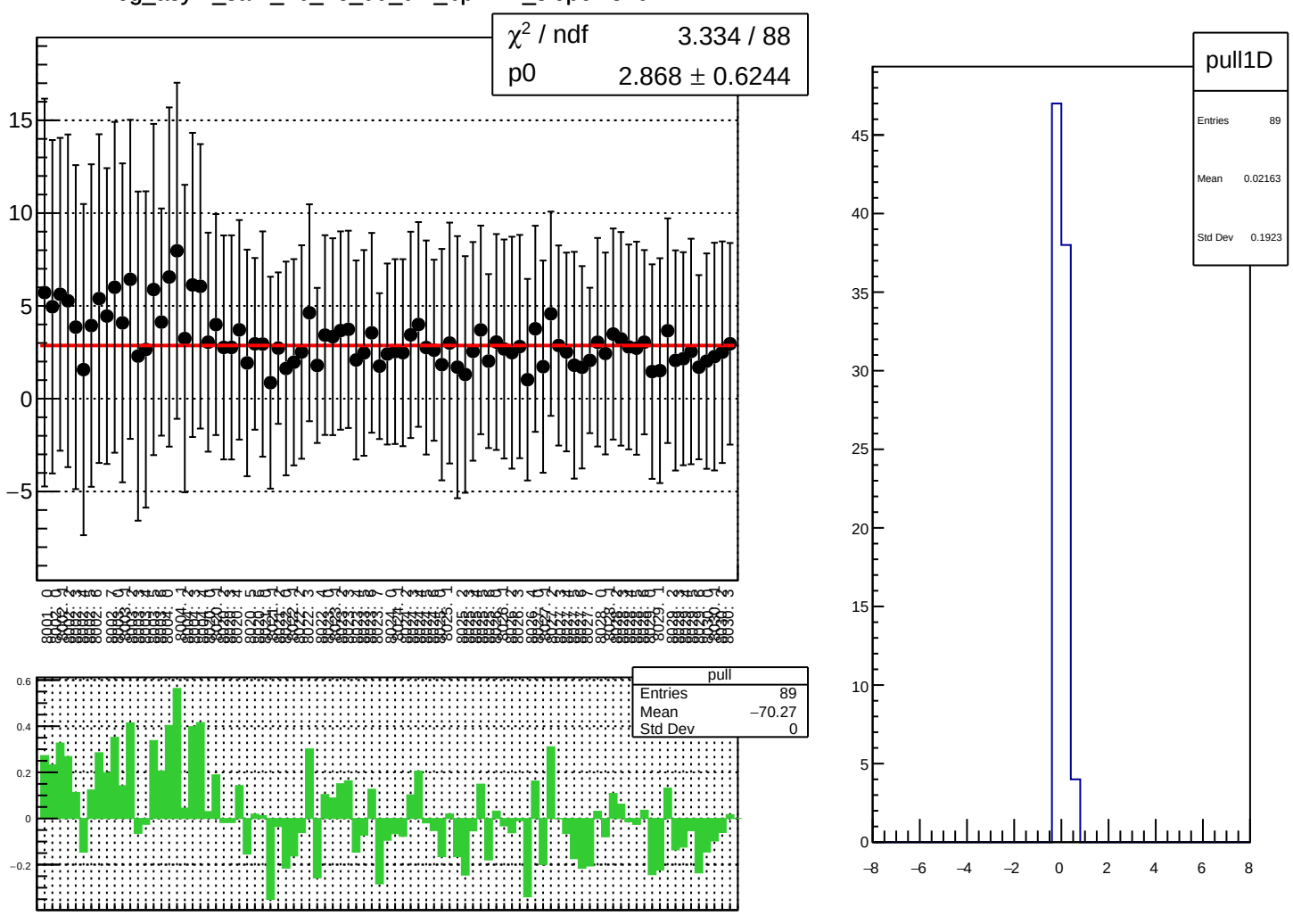

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.413 / 88
p0 −43.09 ± 3.346
pull
Entries 89
Mean −337.5
Std Dev 0

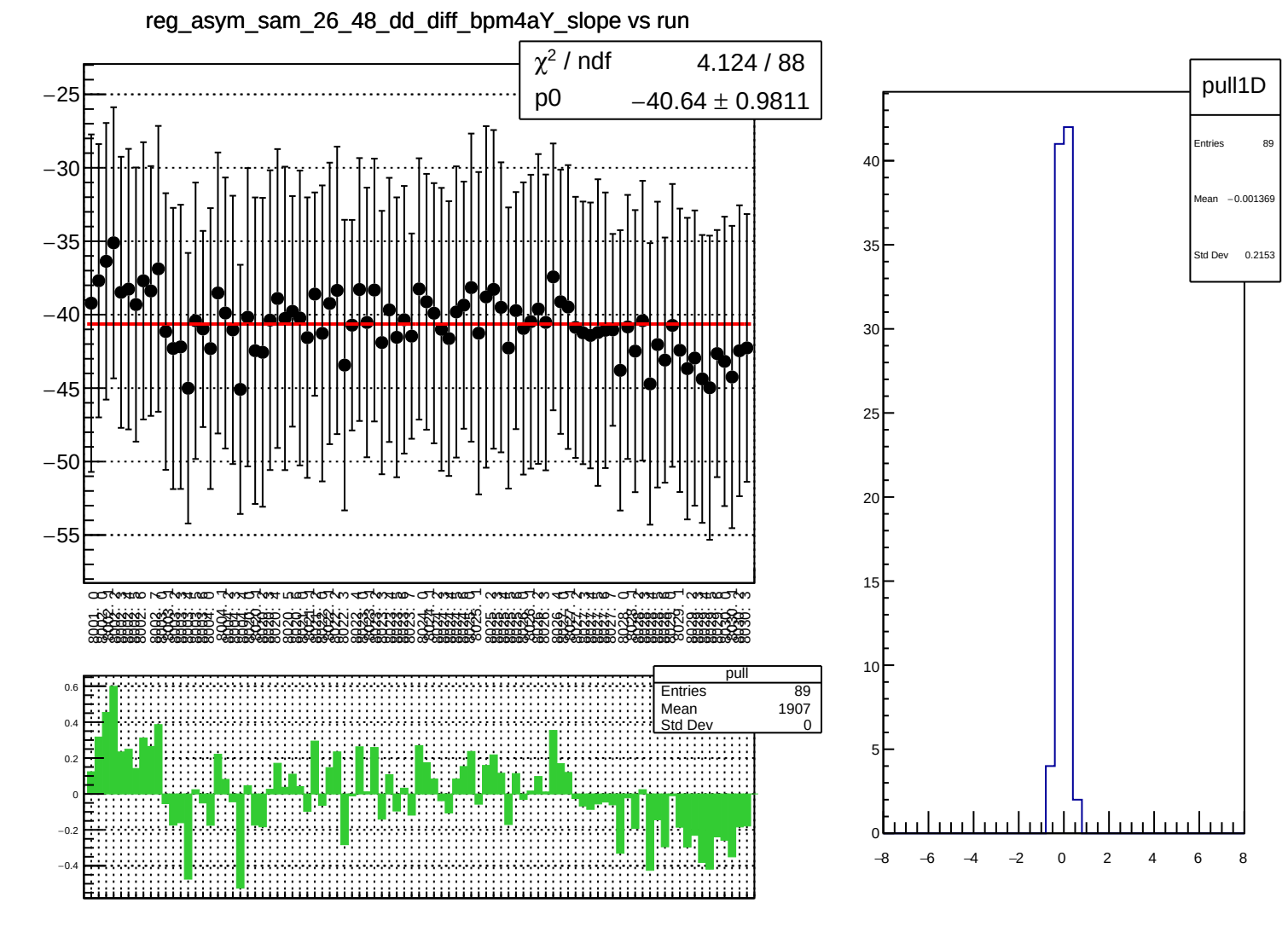

pull1D
Entries 89
Mean 0.01298
Std Dev 0.2223

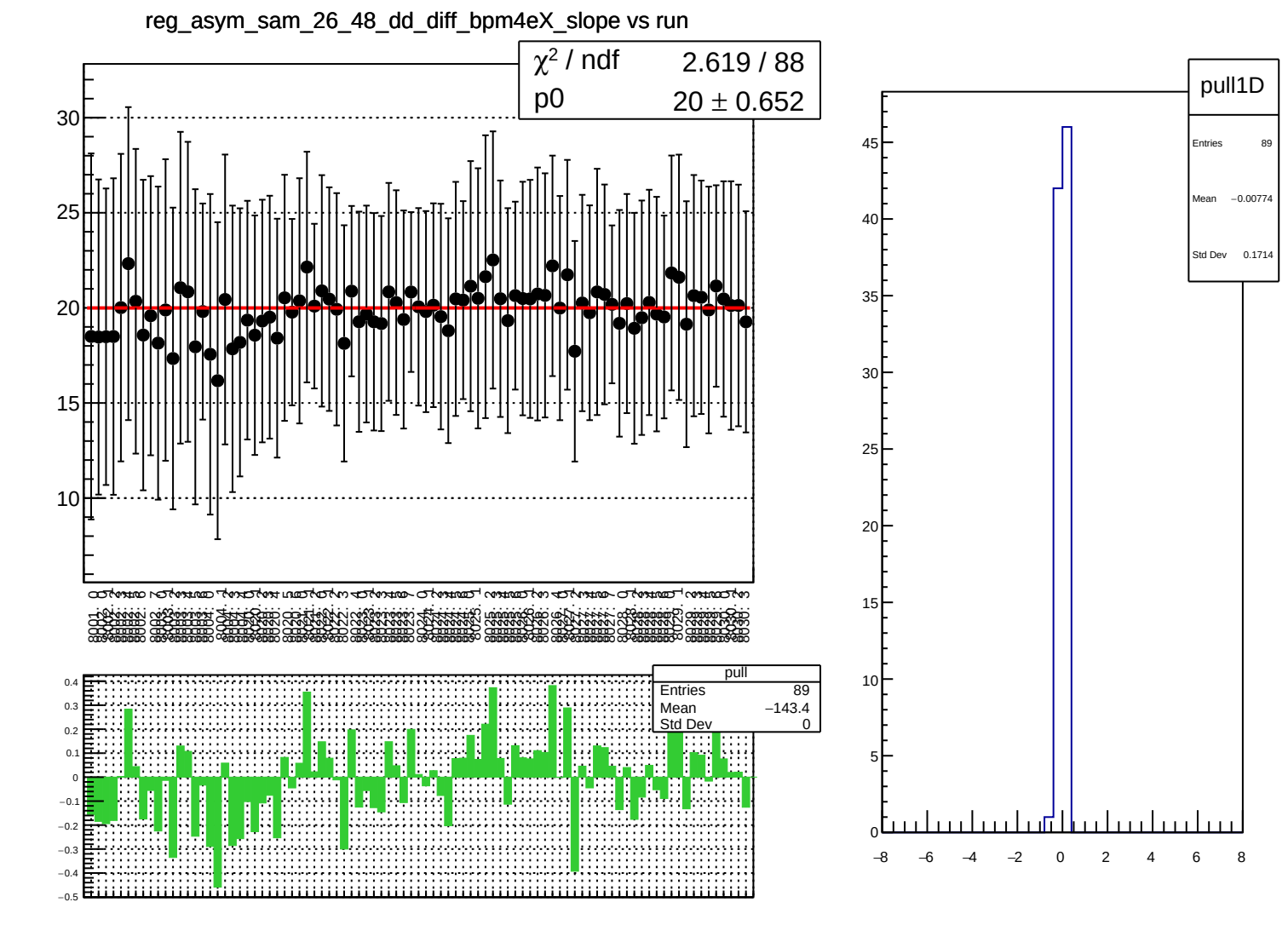

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.773 / 88
p0 −74.49 ± 2.191
pull
Entries 89
Mean −55.88
Std Dev 0
pull1D
Entries 89
Mean 0.03739
Std Dev 0.2285

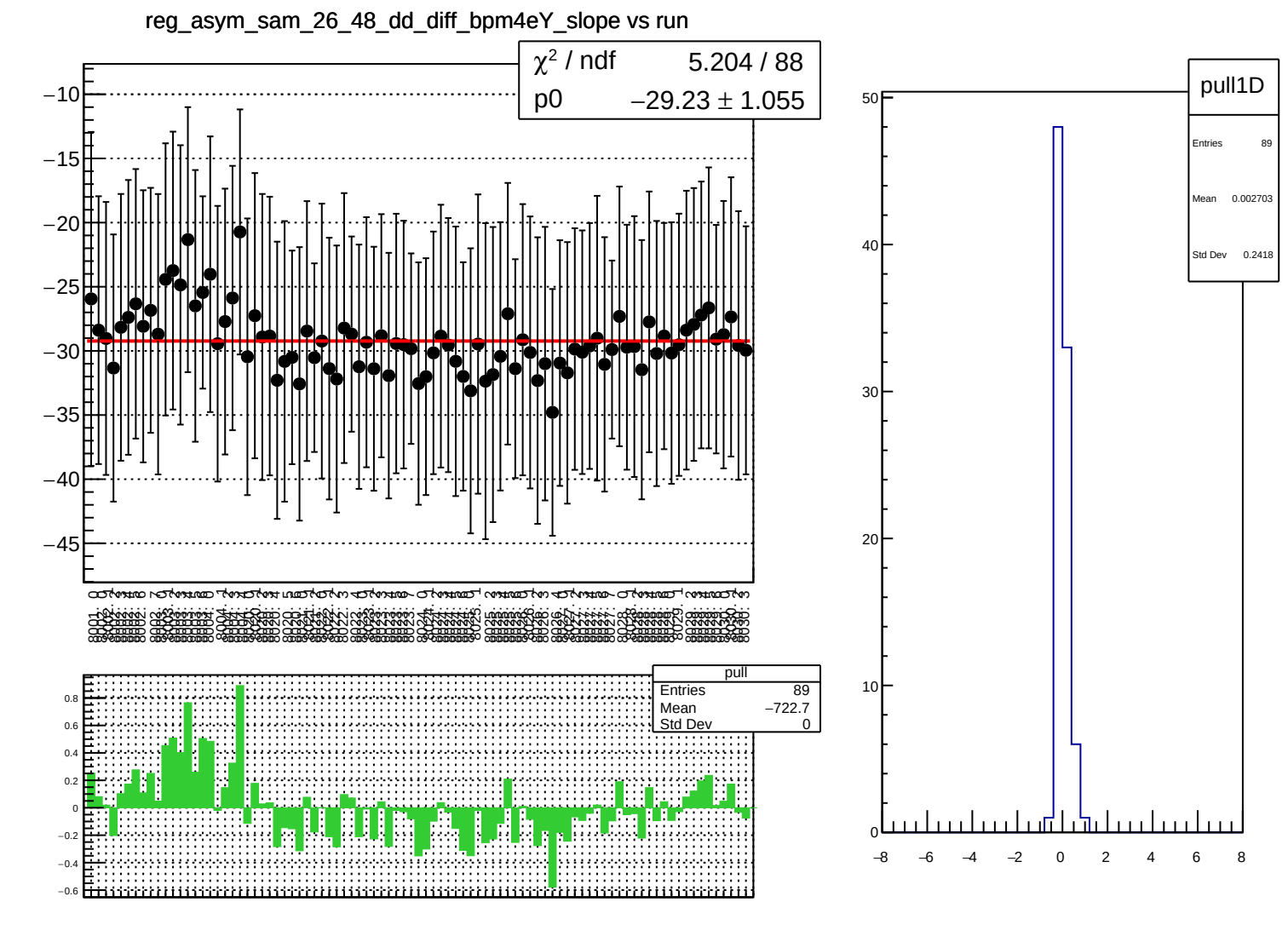

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.745 / 88
p0 25.73 ± 3.586
pull
Entries 89
Mean −267.4
Std Dev 0
pull1D
Entries 89
Mean −0.01426
Std Dev 0.2046

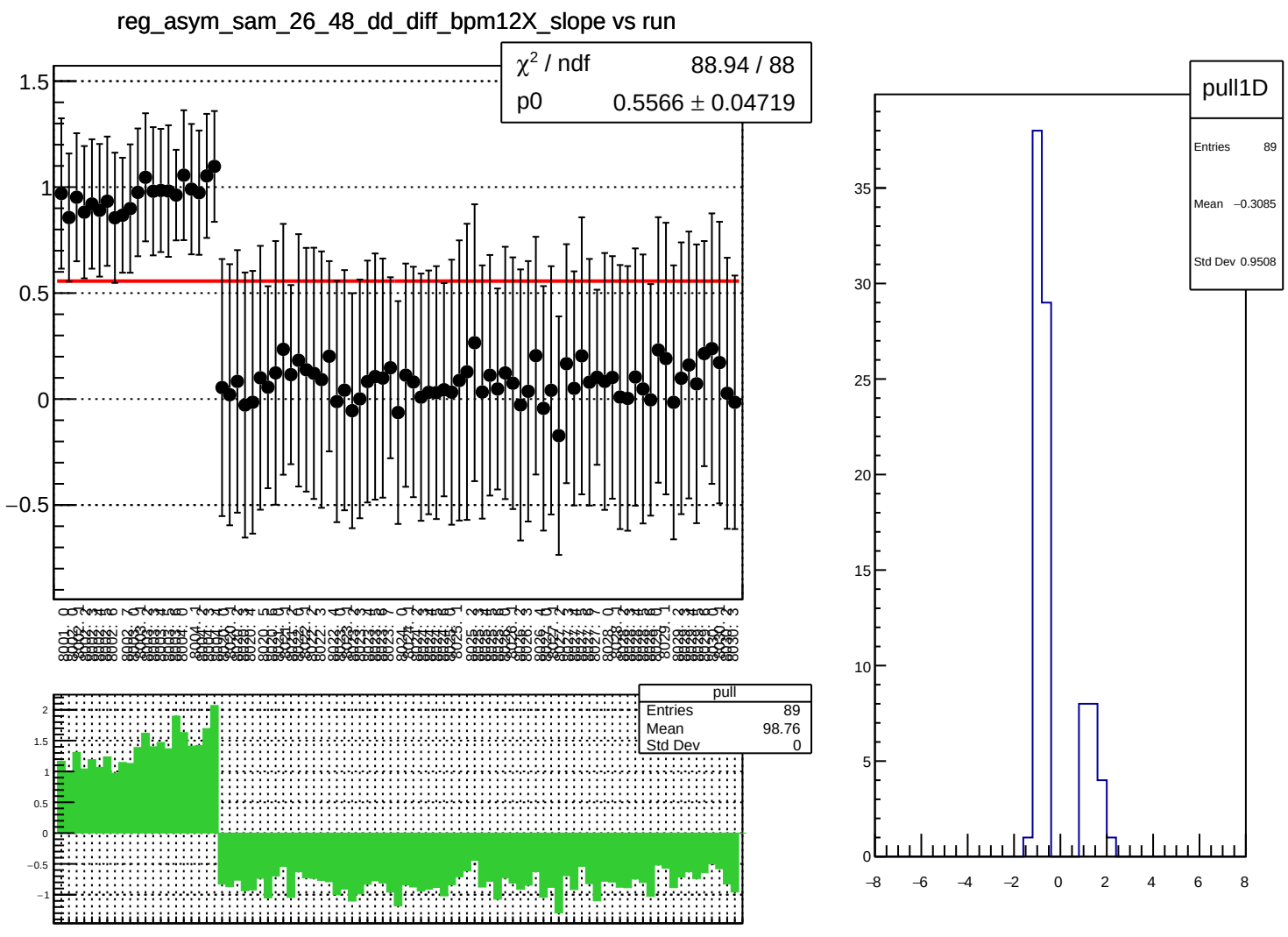

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 68.87 / 88
p0 1.226 ± 0.1694
pull
Entries 89
Mean 128.8
Std Dev 0
pull1D
Entries 89
Mean 0.2002
Std Dev 0.8566

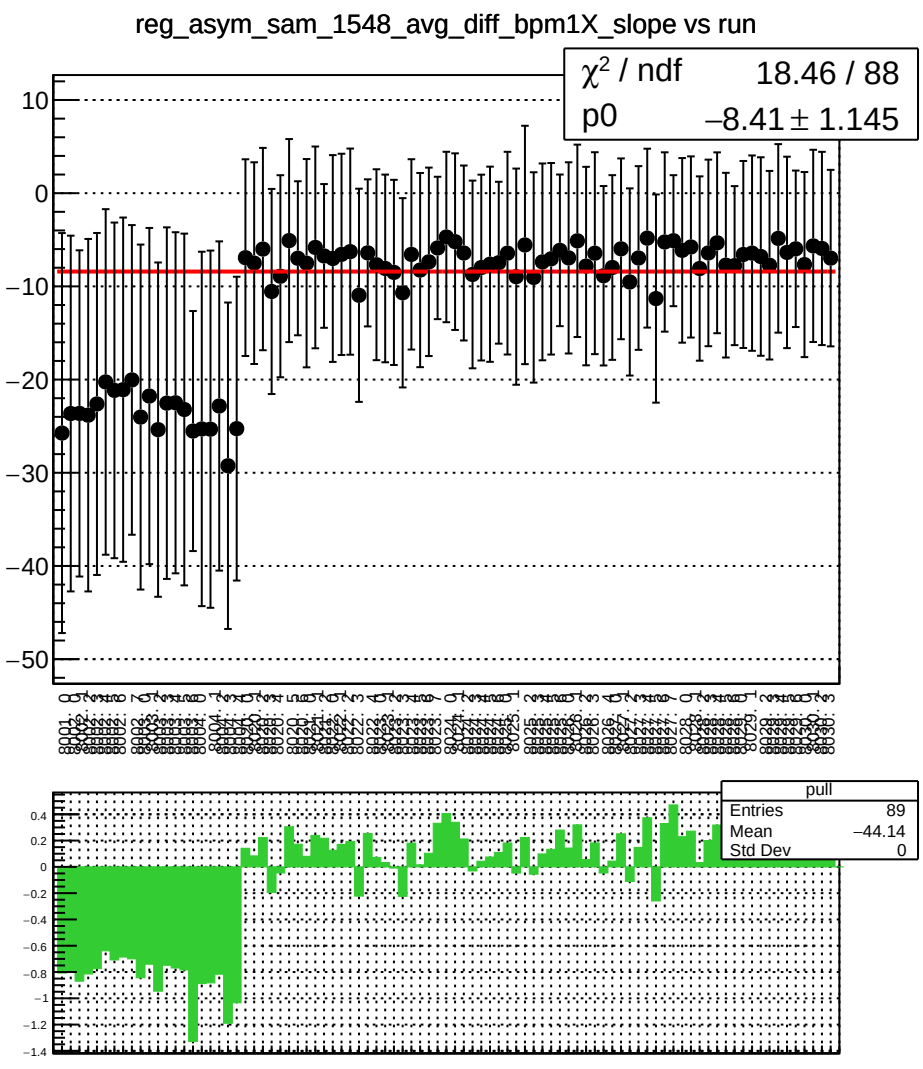

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 3.334 / 88
p0 2.868 ± 0.6244
pull
Entries 89
Mean −70.27
Std Dev 0
pull1D
Entries 89
Mean 0.02163
Std Dev 0.1923

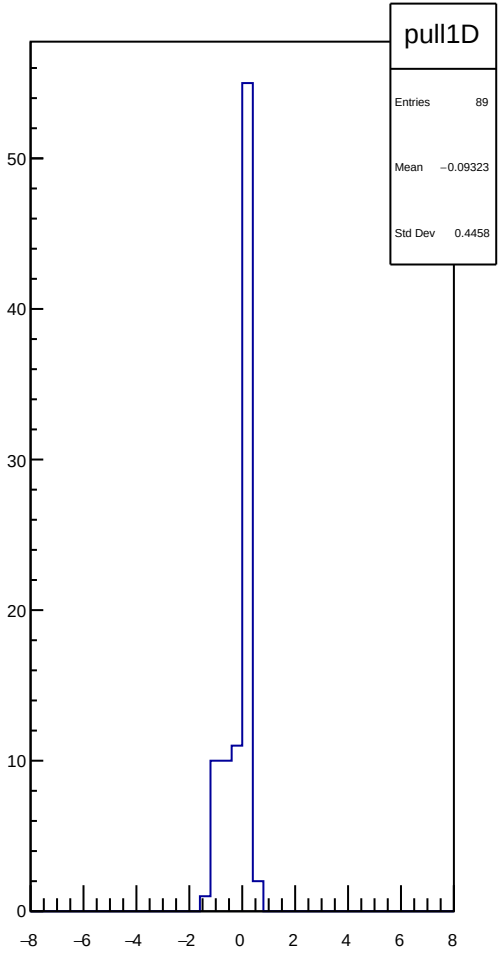

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.124 / 88
p0 −40.64 ± 0.9811
pull
Entries 89
Mean 1907
Std Dev 0
pull1D
Entries 89
Mean −0.001369
Std Dev 0.2153

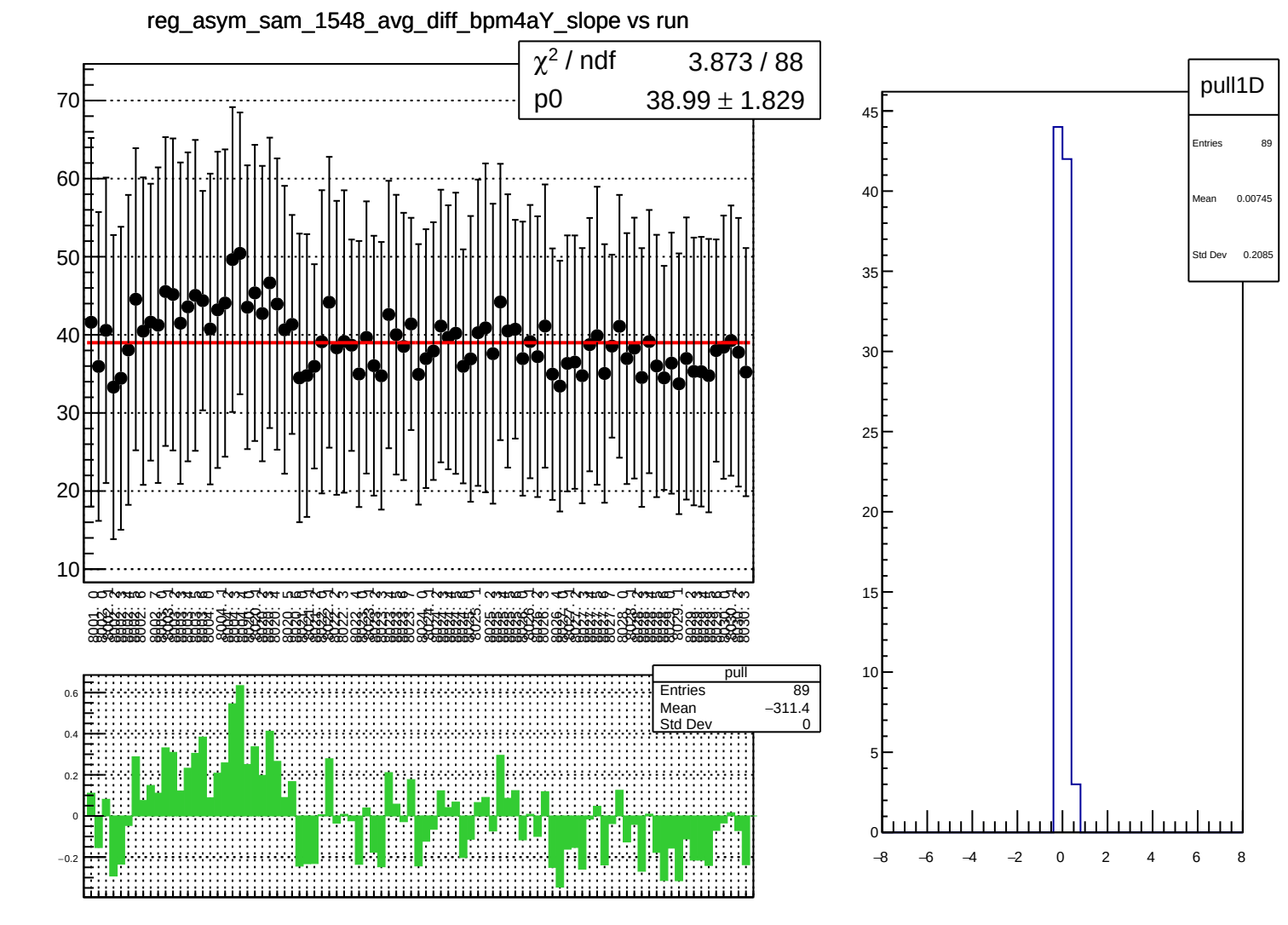

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.619 / 88
p0 20 ± 0.652
pull
Entries 89
Mean −143.4
Std Dev 0
pull1D
Entries 89
Mean −0.00774
Std Dev 0.1714

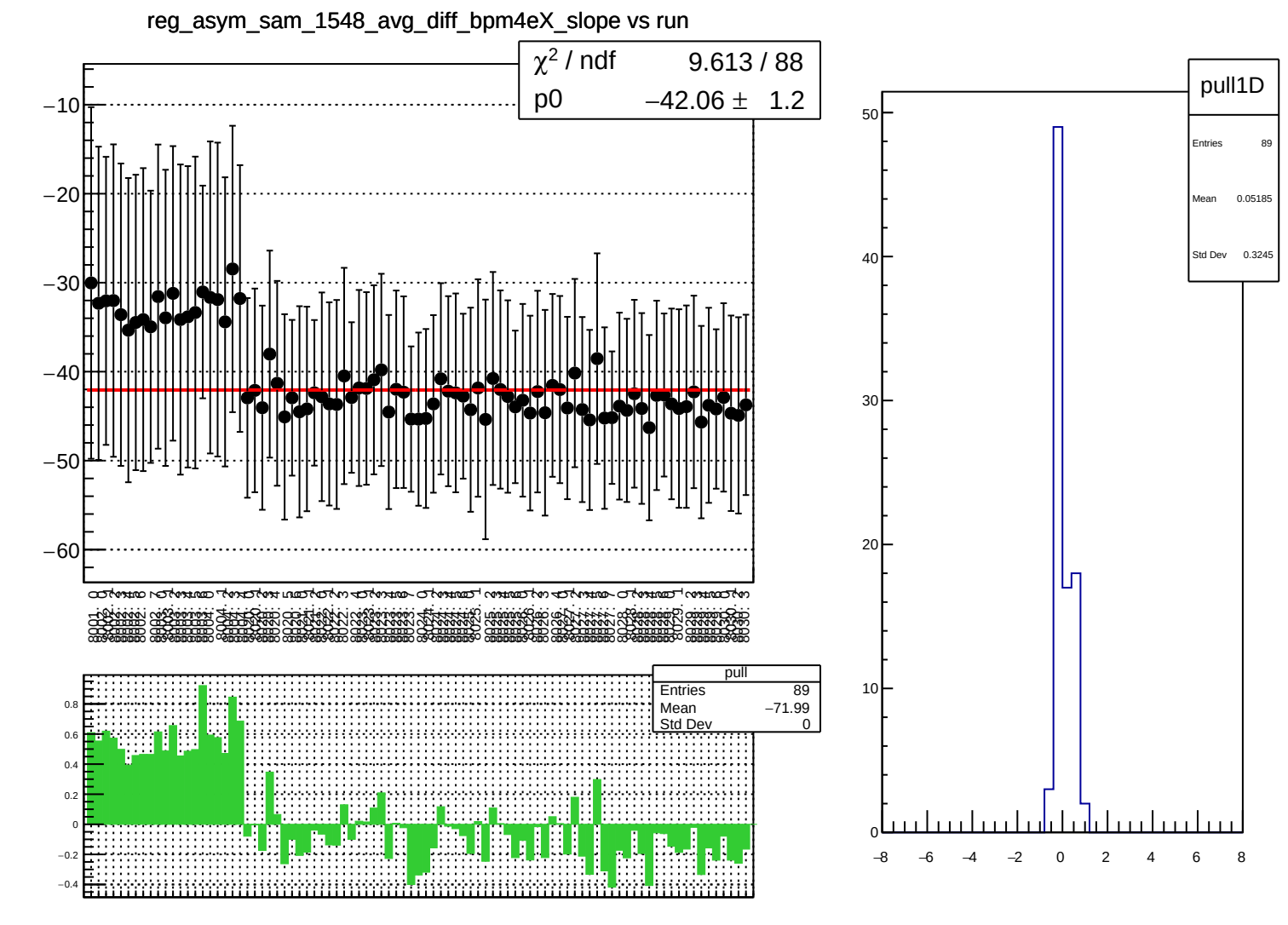

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.204 / 88
p0 −29.23 ± 1.055
pull
Entries 89
Mean −722.7
Std Dev 0
pull1D
Entries 89
Mean 0.002703
Std Dev 0.2418

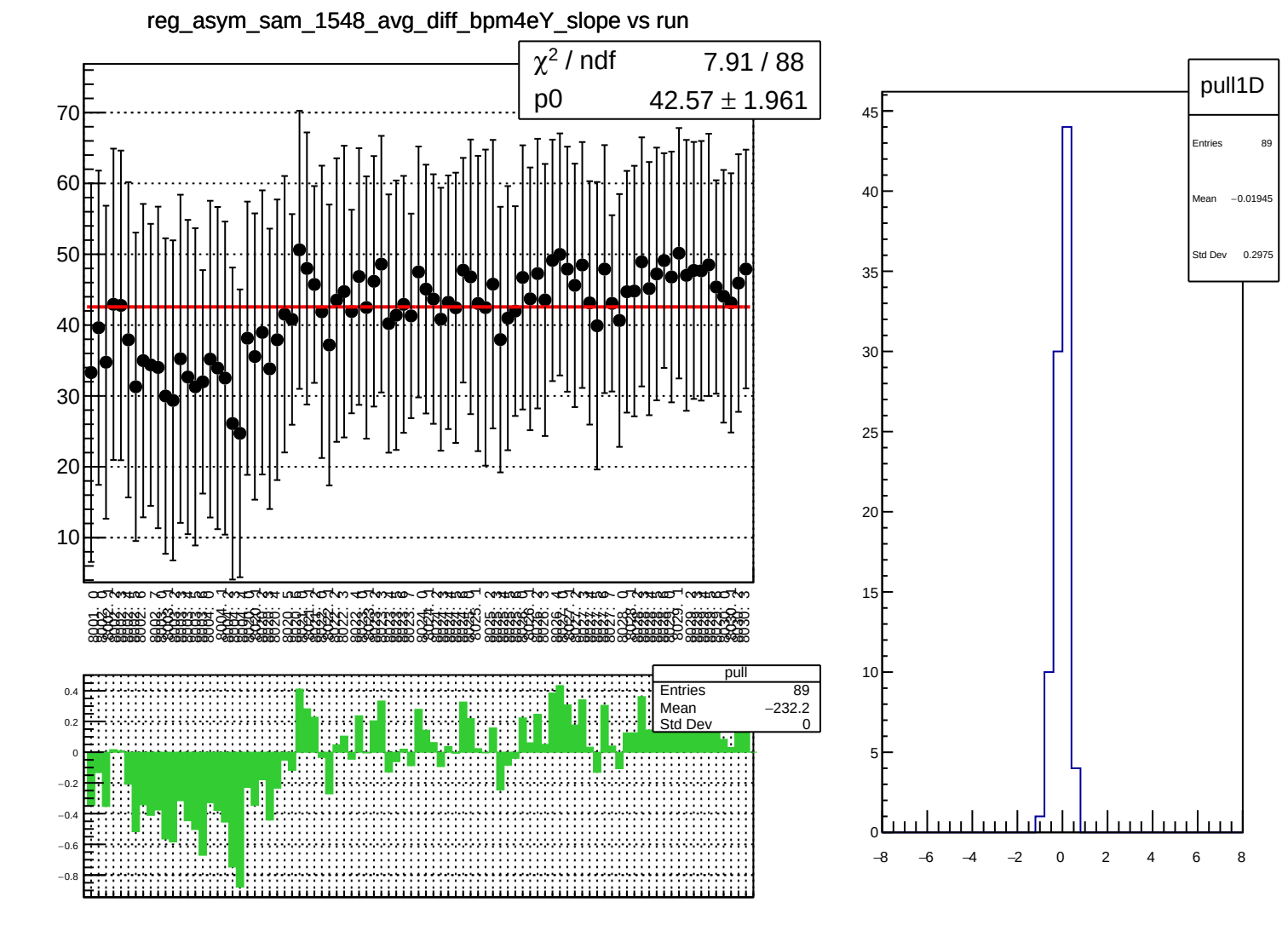

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 88.94 / 88
p0 0.5566 ± 0.04719
pull
Entries 89
Mean 98.76
Std Dev 0
pull1D
Entries 89
Mean −0.3085
Std Dev 0.9508

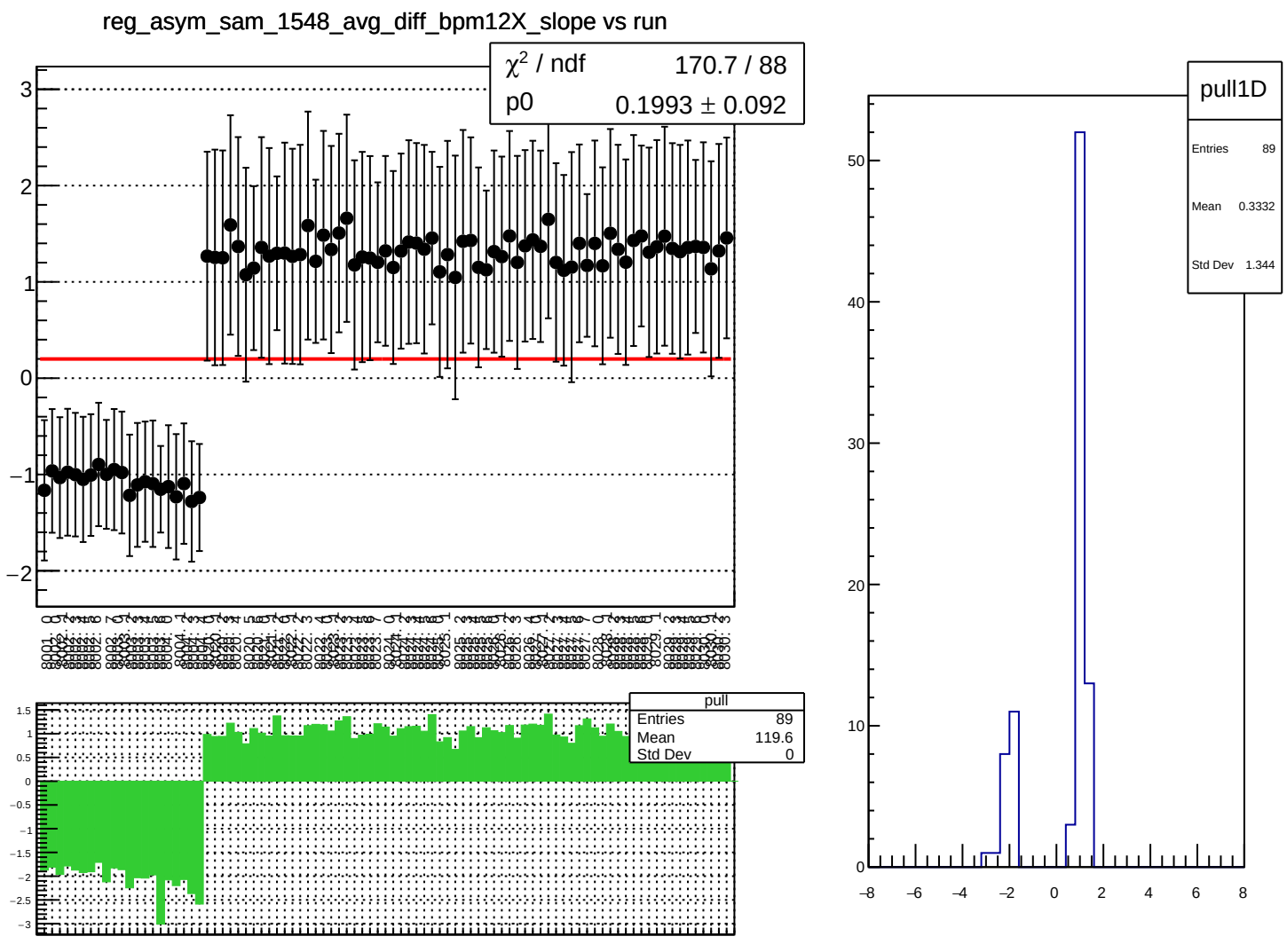

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 18.46 / 88
p0 −8.41 ± 1.145
pull
Entries 89
Mean −44.14
Std Dev 0

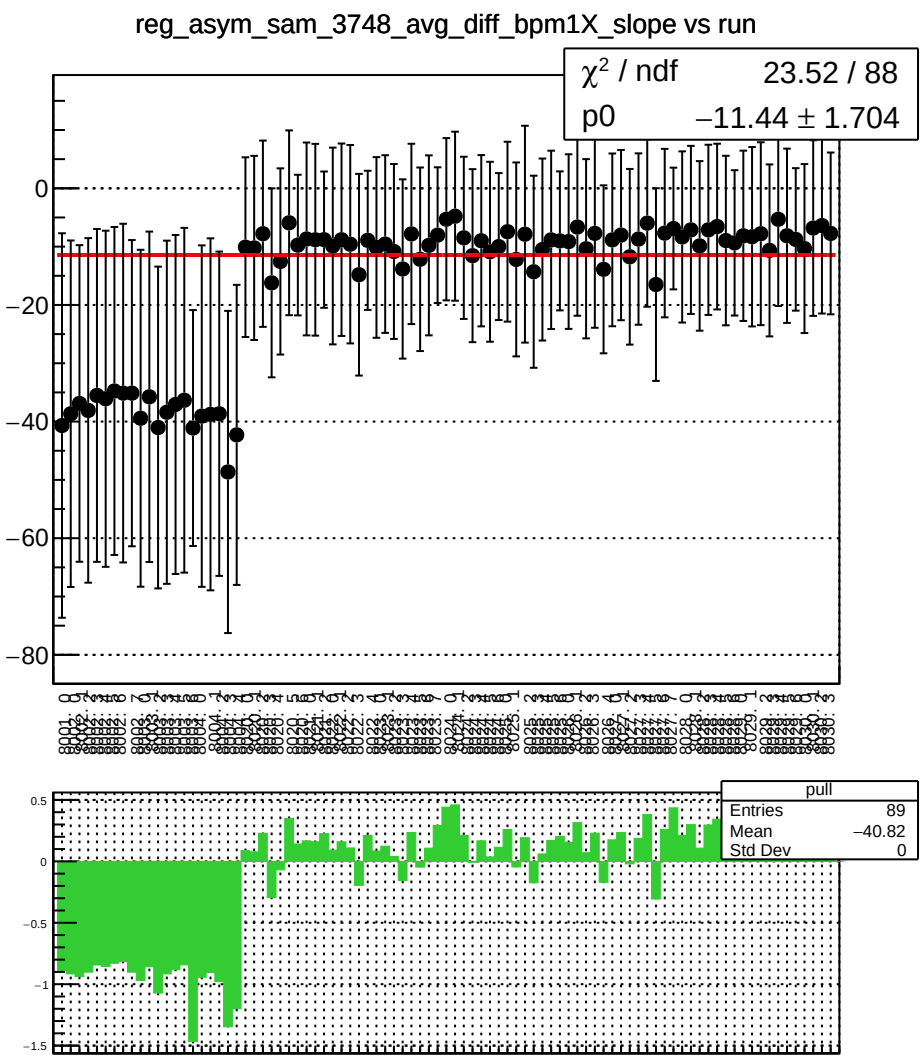

pull1D
Entries 89
Mean −0.09323
Std Dev 0.4458

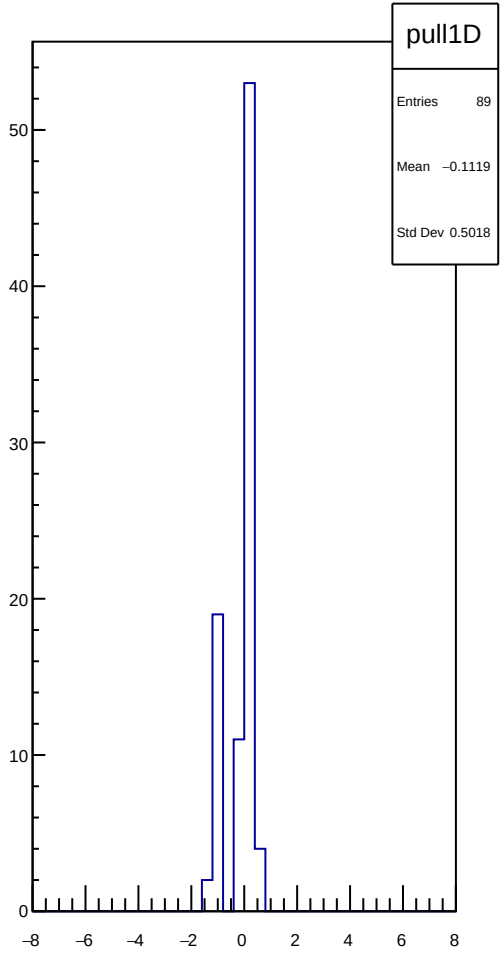

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.873 / 88
p0 38.99 ± 1.829
pull
Entries 89
Mean −311.4
Std Dev 0
pull1D
Entries 89
Mean 0.00745
Std Dev 0.2085

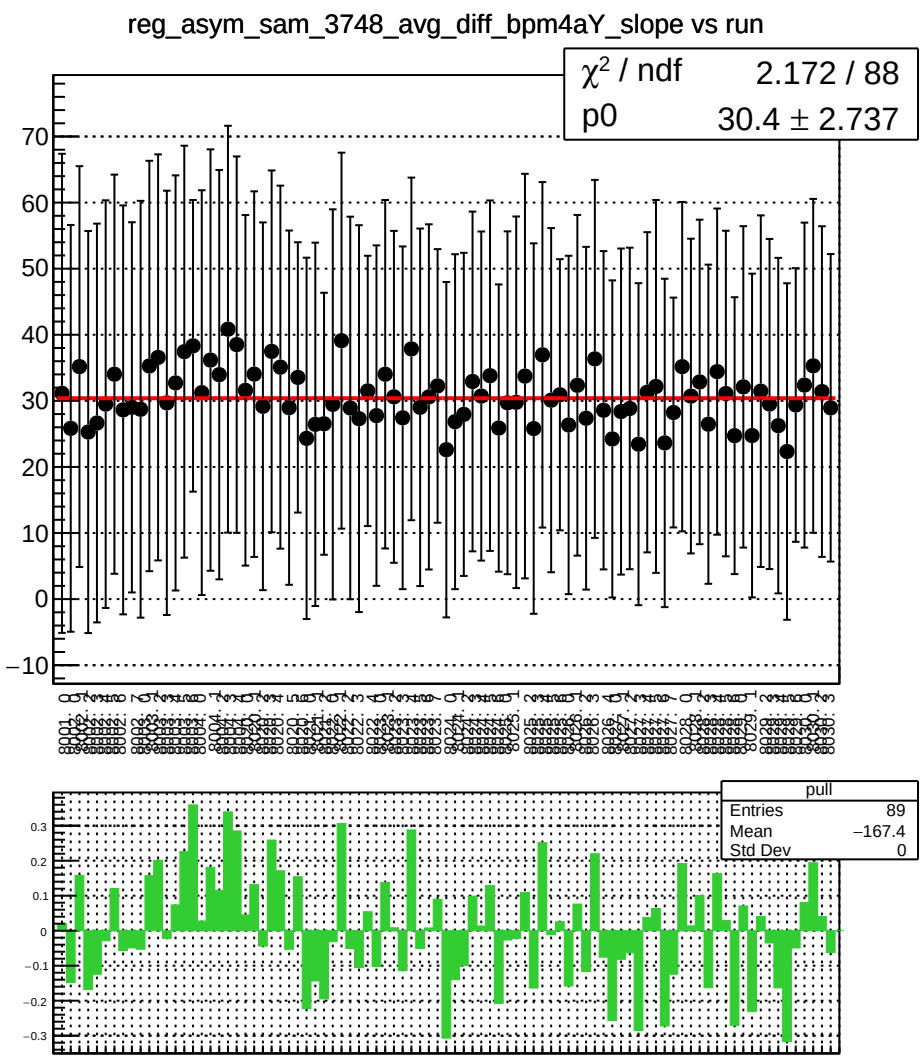

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.613 / 88
p0 −42.06 ± 1.2
pull
Entries 89
Mean −71.99
Std Dev 0
pull1D
Entries 89
Mean 0.05185
Std Dev 0.3245

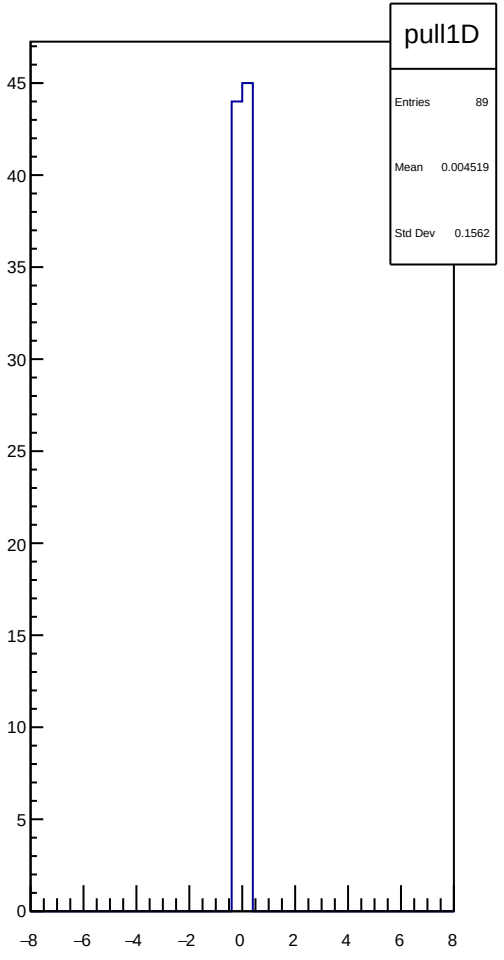

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.91 / 88
p0 42.57 ± 1.961
pull
Entries 89
Mean −232.2
Std Dev 0
pull1D
Entries 89
Mean −0.01945
Std Dev 0.2975

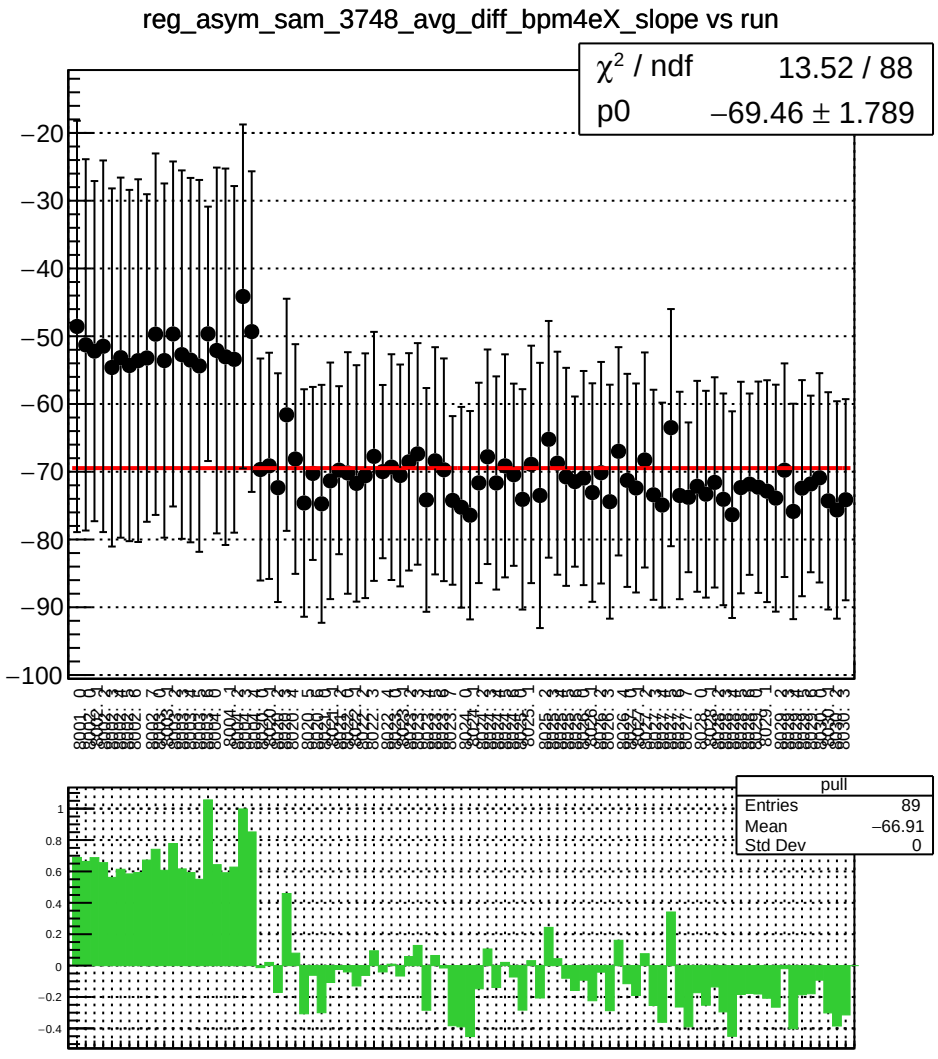

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 170.7 / 88
p0 0.1993 ± 0.092
pull
Entries 89
Mean 119.6
Std Dev 0
pull1D
Entries 89
Mean 0.3332
Std Dev 1.344

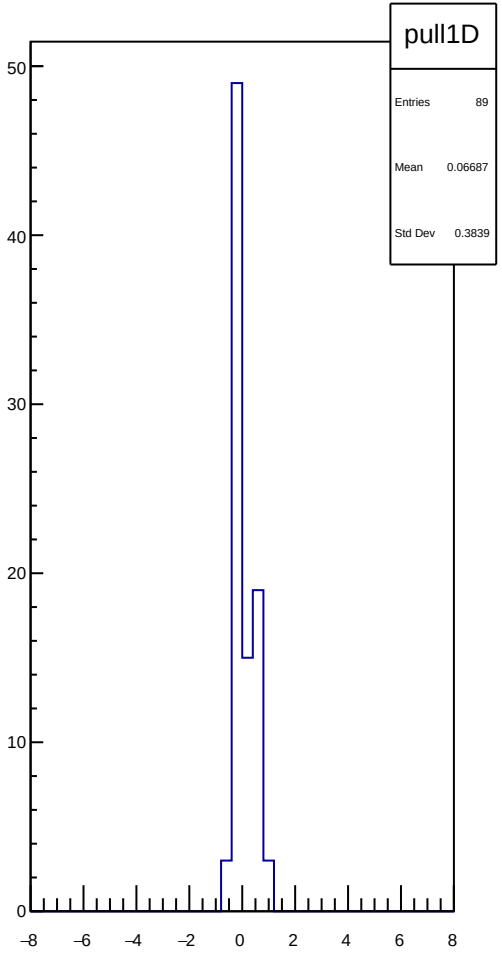

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 23.52 / 88
p0 −11.44 ± 1.704
0
−20
−40
−60
−80
pull
Entries 89
Mean −40.82
Std Dev 0
0.5
0
−0.5
−1
−1.5

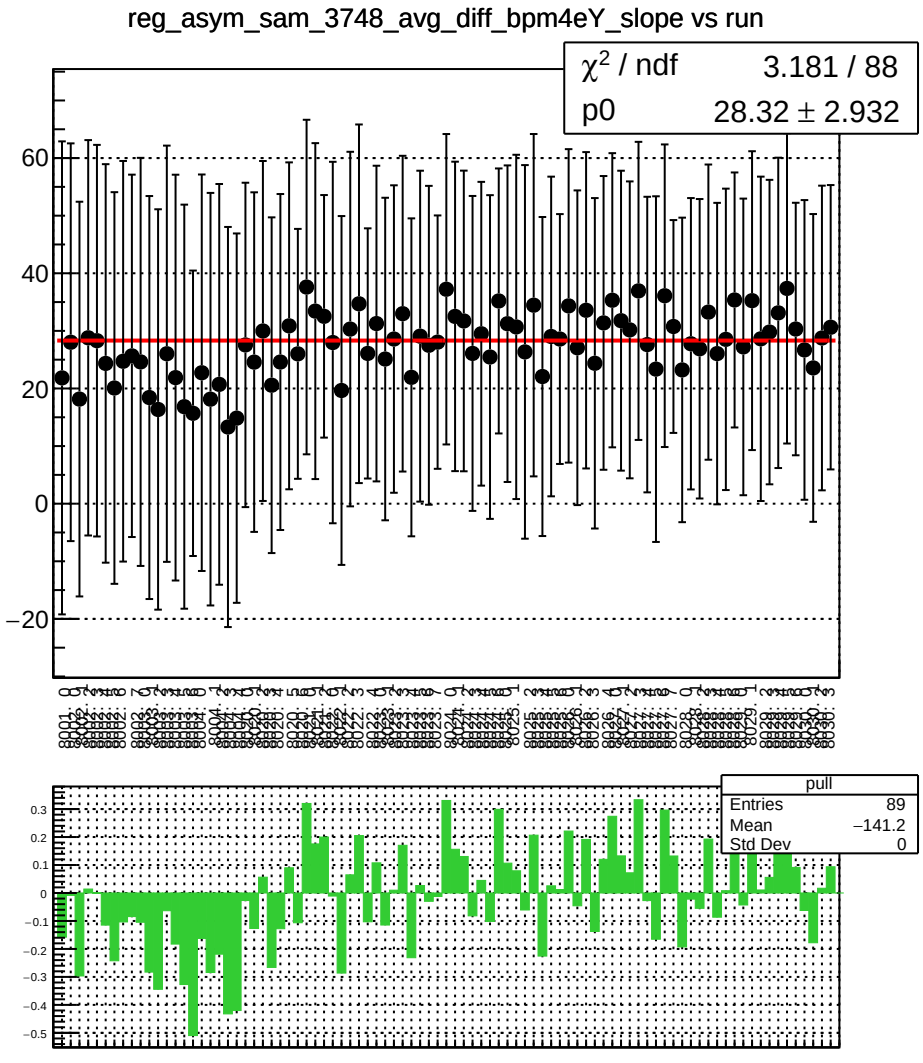

pull1D
Entries 89
Mean −0.1119
Std Dev 0.5018
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

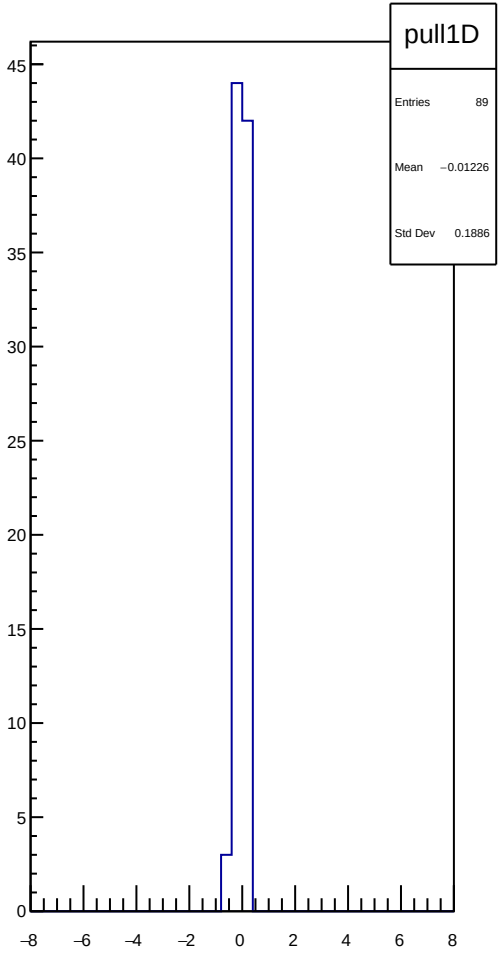

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.172 / 88
p0 30.4 ± 2.737
pull
Entries 89
Mean −167.4
Std Dev 0

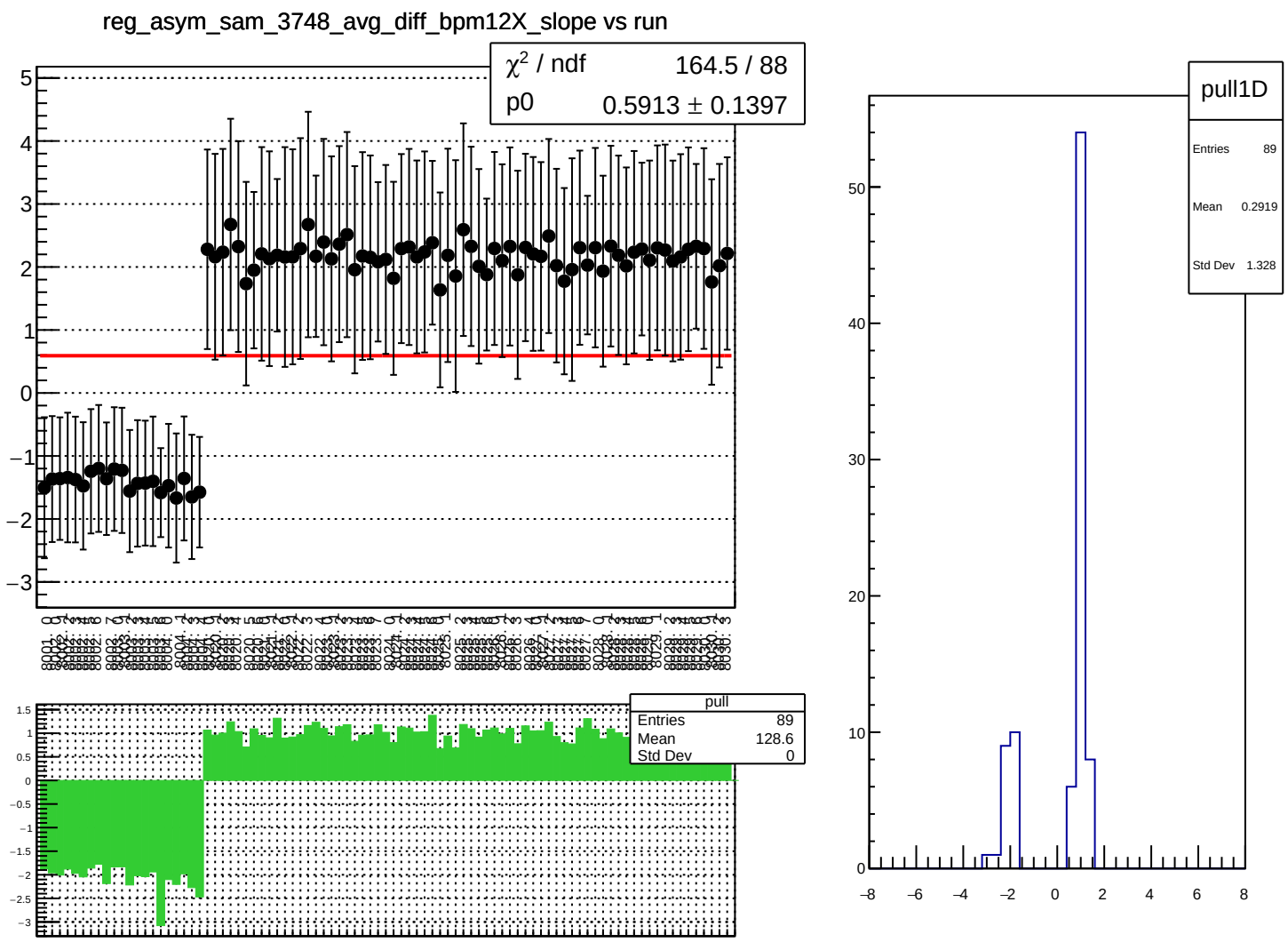

pull1D
Entries 89
Mean 0.004519
Std Dev 0.1562

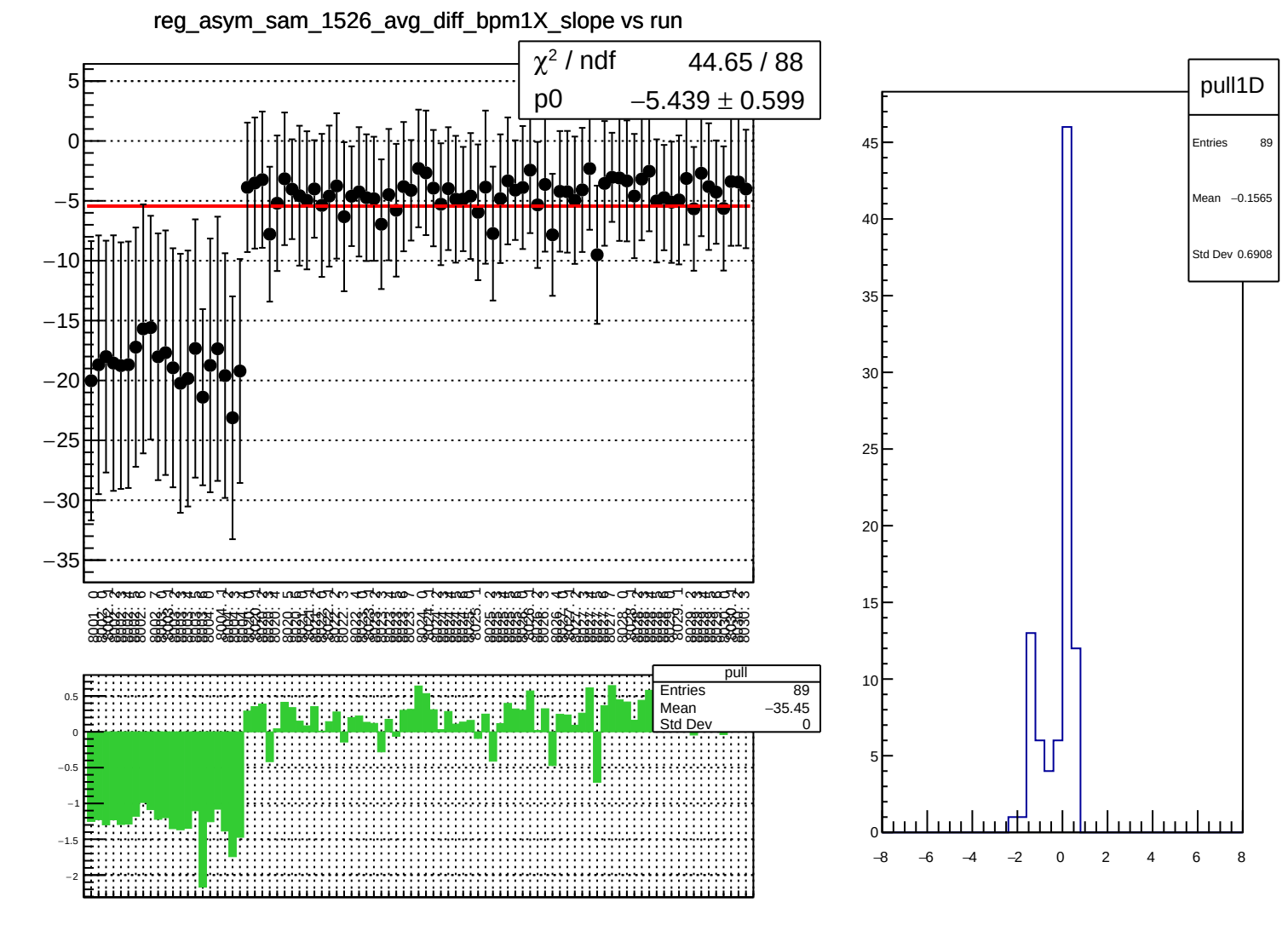

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 13.52 / 88
p0 −69.46 ± 1.789
pull
Entries 89
Mean −66.91
Std Dev 0

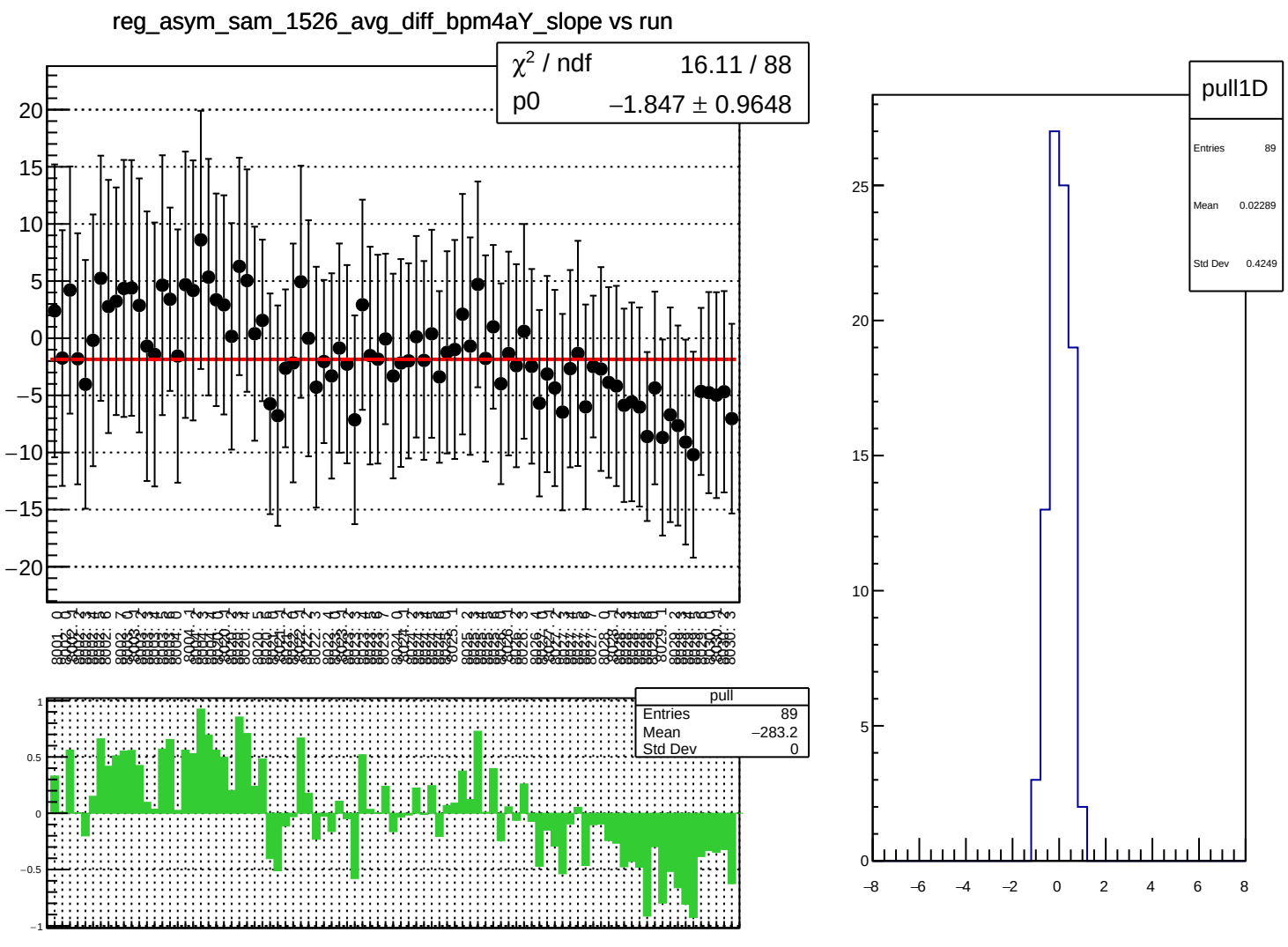

pull1D
Entries 89
Mean 0.06687
Std Dev 0.3839

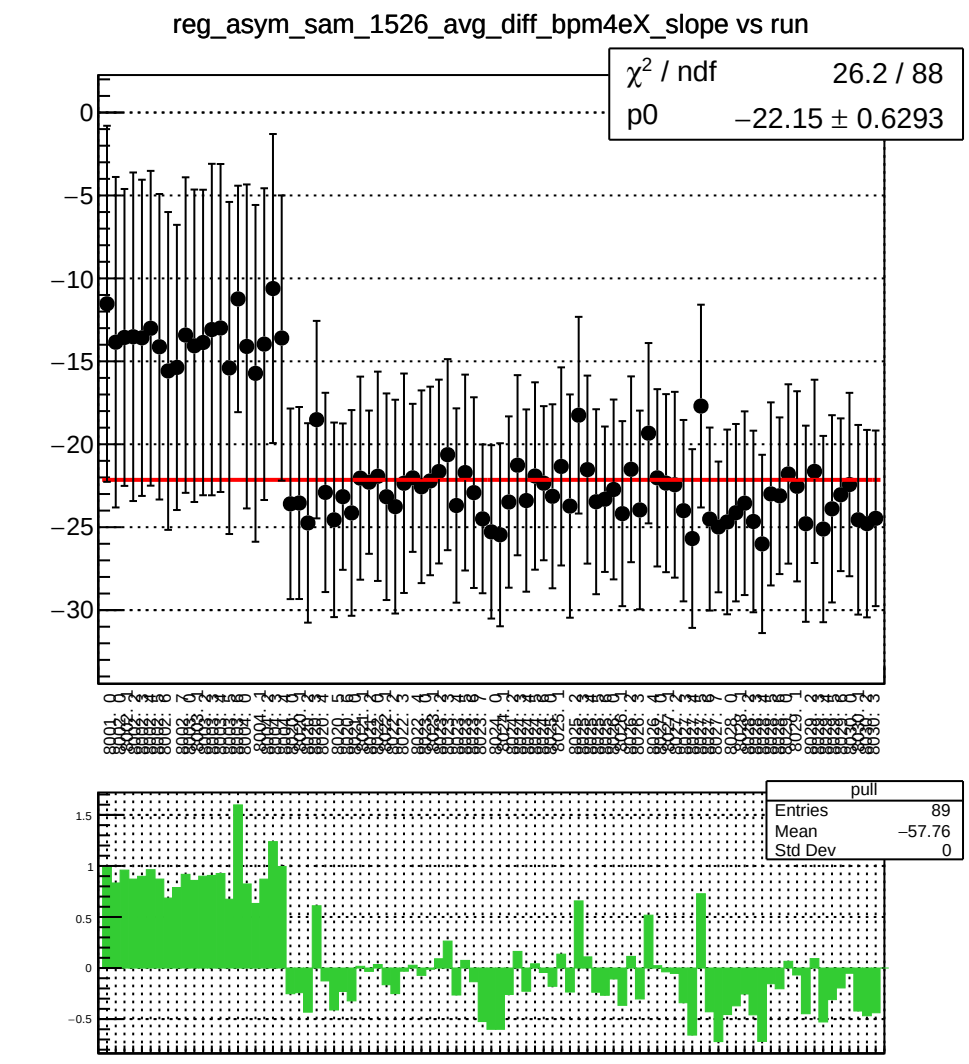

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.181 / 88
p0 28.32 ± 2.932
pull
Entries 89
Mean −141.2
Std Dev 0

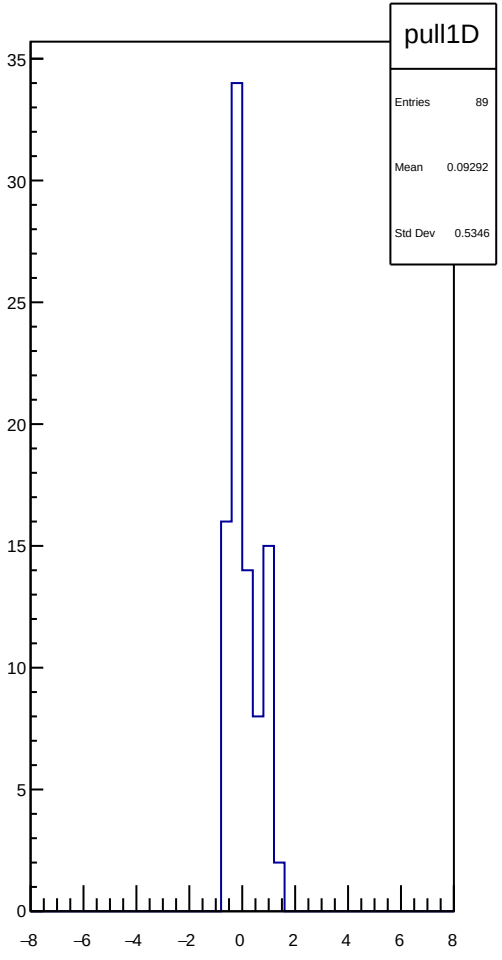

pull1D
Entries 89
Mean −0.01226
Std Dev 0.1886

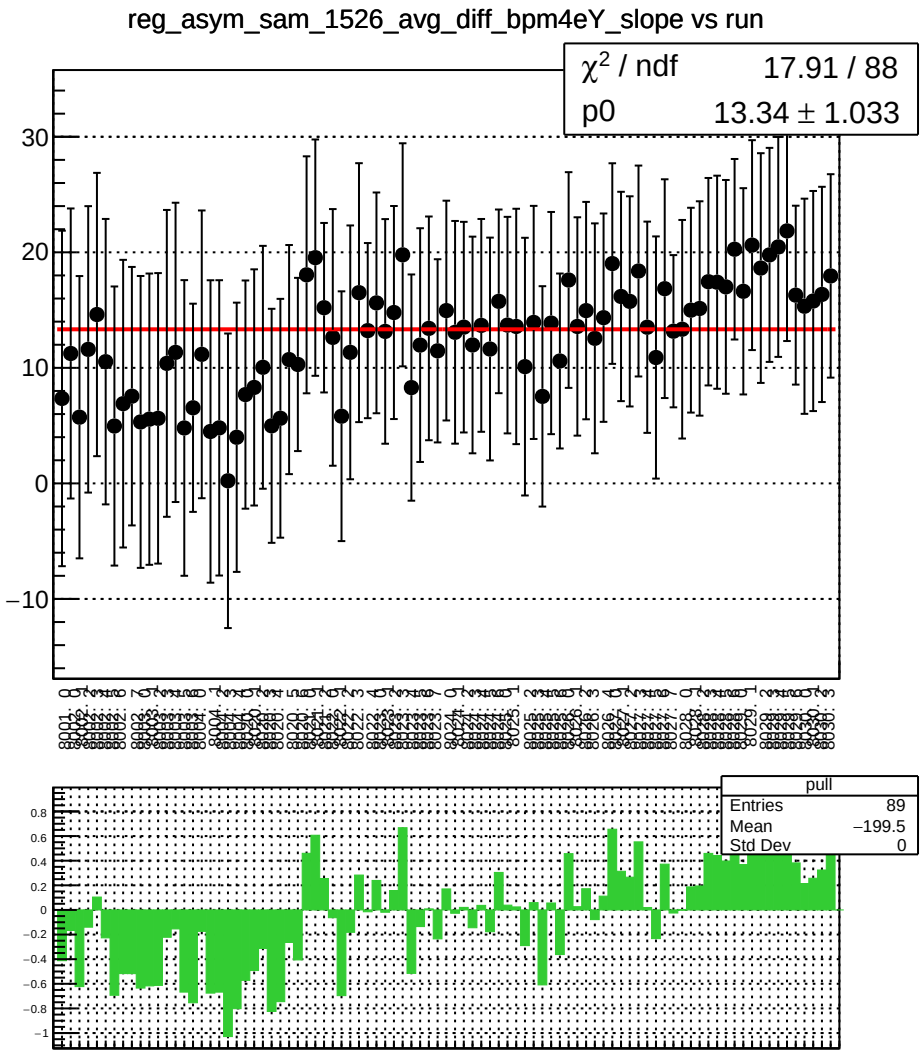

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 164.5 / 88
p0 0.5913 ± 0.1397
pull
Entries 89
Mean 128.6
Std Dev 0
pull1D
Entries 89
Mean 0.2919
Std Dev 1.328

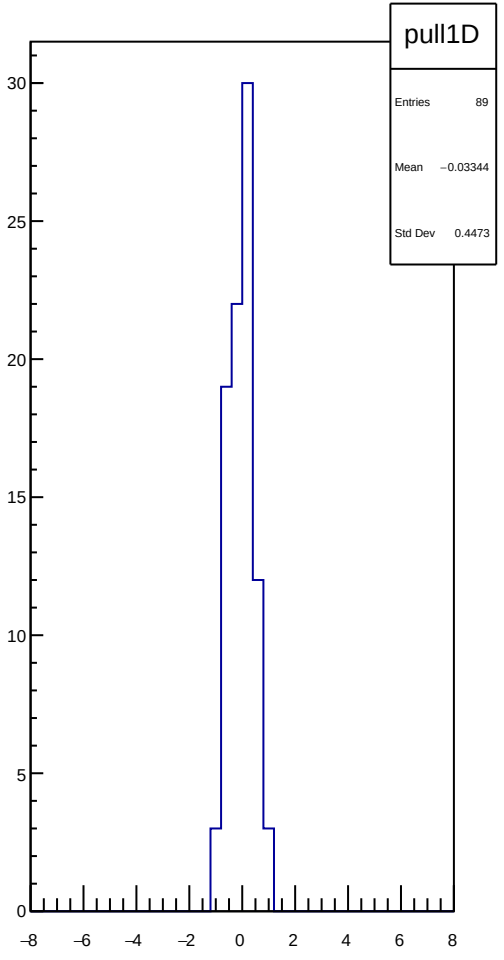

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 44.65 / 88
p0 −5.439 ± 0.599
pull
Entries 89
Mean −35.45
Std Dev 0
pull1D
Entries 89
Mean −0.1565
Std Dev 0.6908

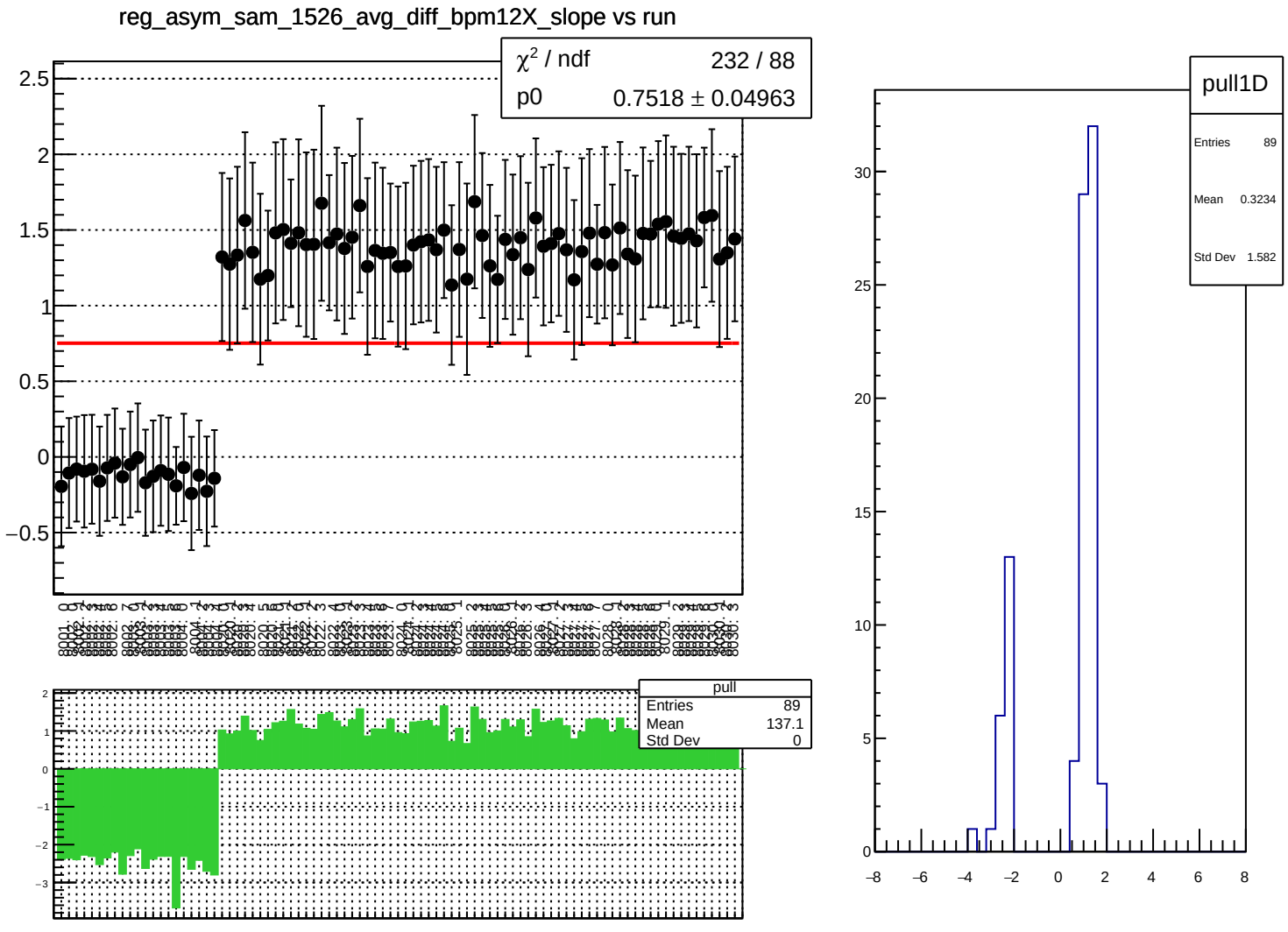

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 16.11 / 88
p0 −1.847 ± 0.9648
pull
Entries 89
Mean −283.2
Std Dev 0
pull1D
Entries 89
Mean 0.02289
Std Dev 0.4249

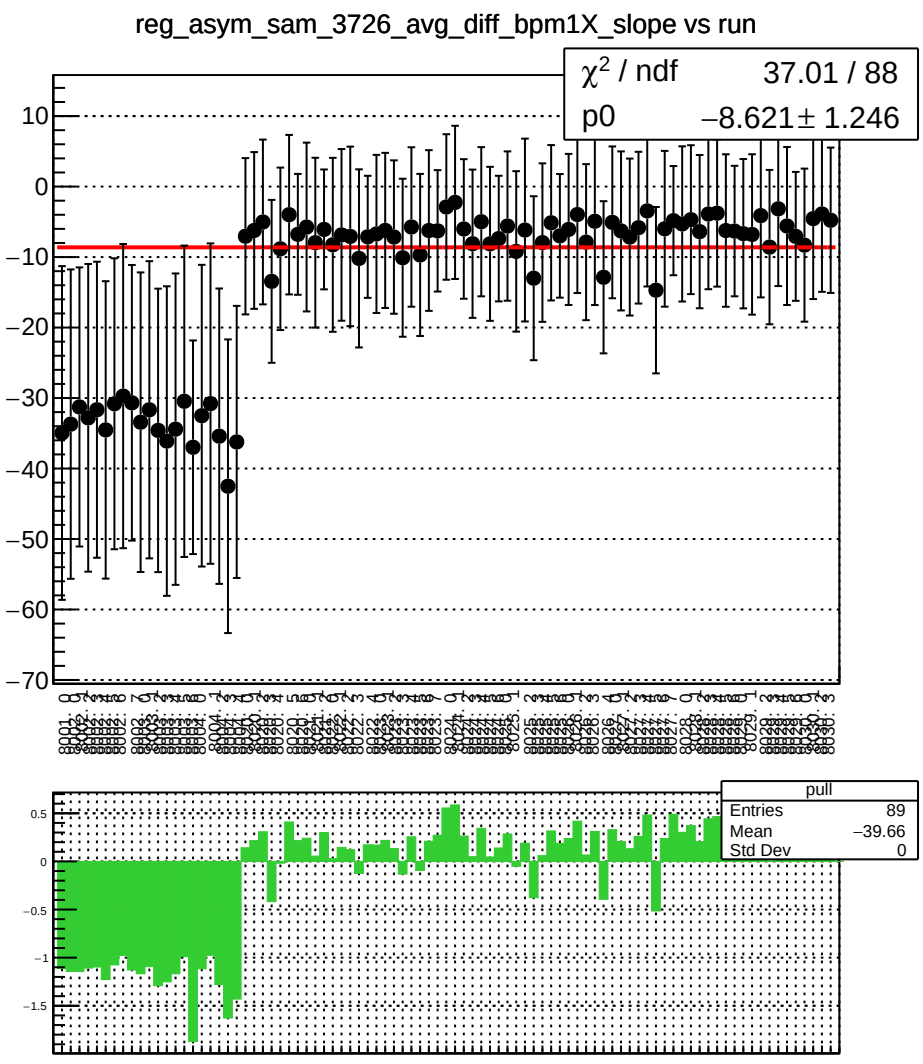

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 26.2 / 88
p0 −22.15 ± 0.6293
pull
Entries 89
Mean −57.76
Std Dev 0

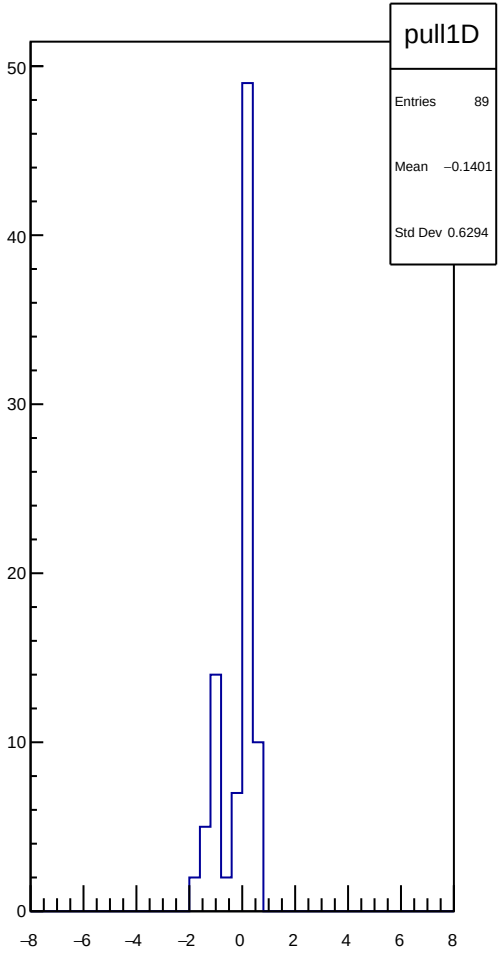

pull1D
Entries 89
Mean 0.09292
Std Dev 0.5346

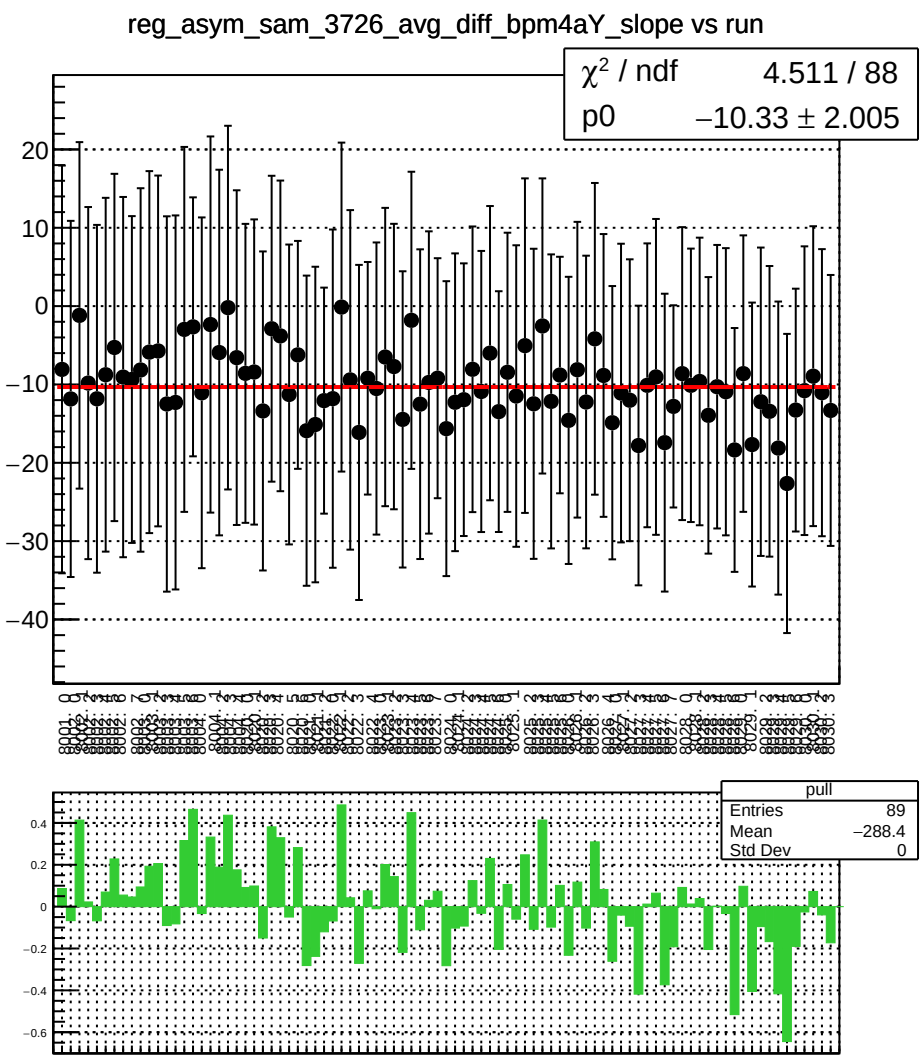

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 17.91 / 88
p0 13.34 ± 1.033
pull
Entries 89
Mean −199.5
Std Dev 0

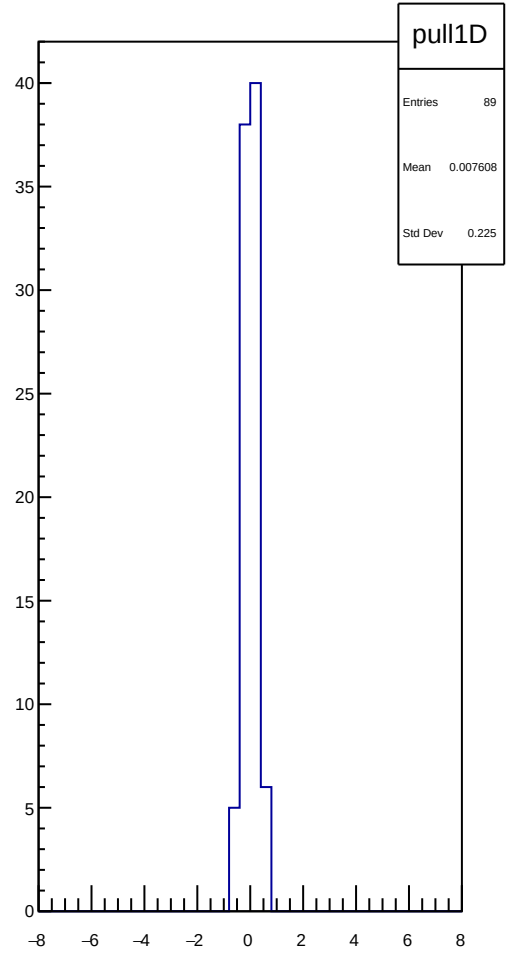

pull1D
Entries 89
Mean −0.03344
Std Dev 0.4473

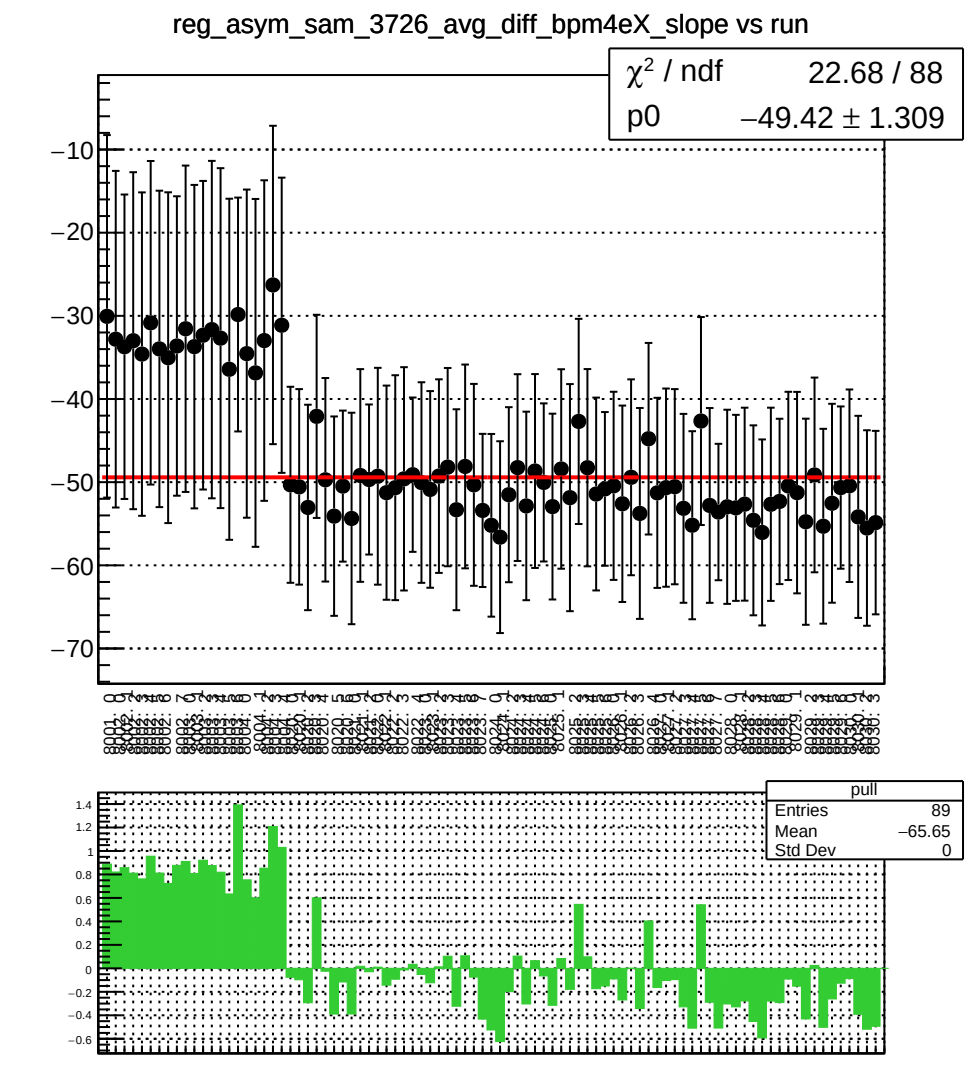

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 232 / 88
p0 0.7518 ± 0.04963
pull
Entries 89
Mean 137.1
Std Dev 0
pull1D
Entries 89
Mean 0.3234
Std Dev 1.582

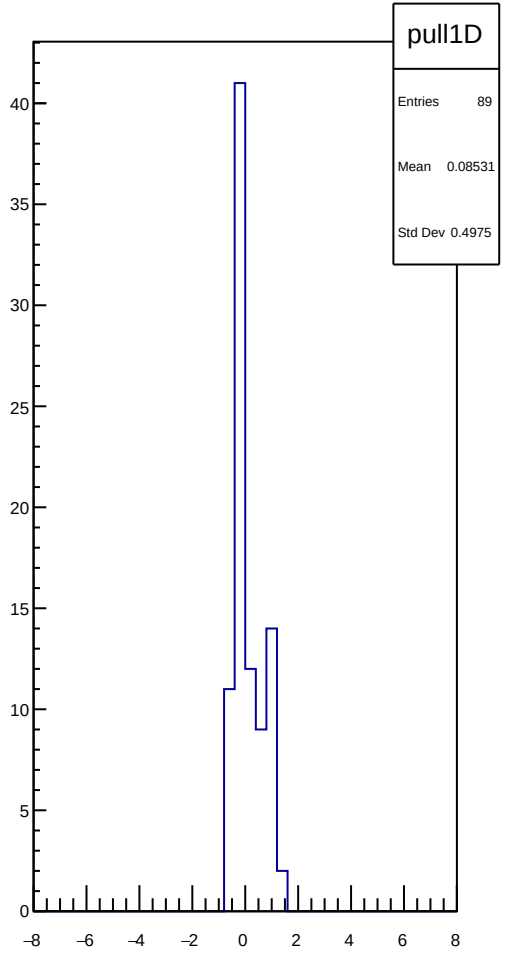

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 37.01 / 88
p0 −8.621 ± 1.246
pull
Entries 89
Mean −39.66
Std Dev 0

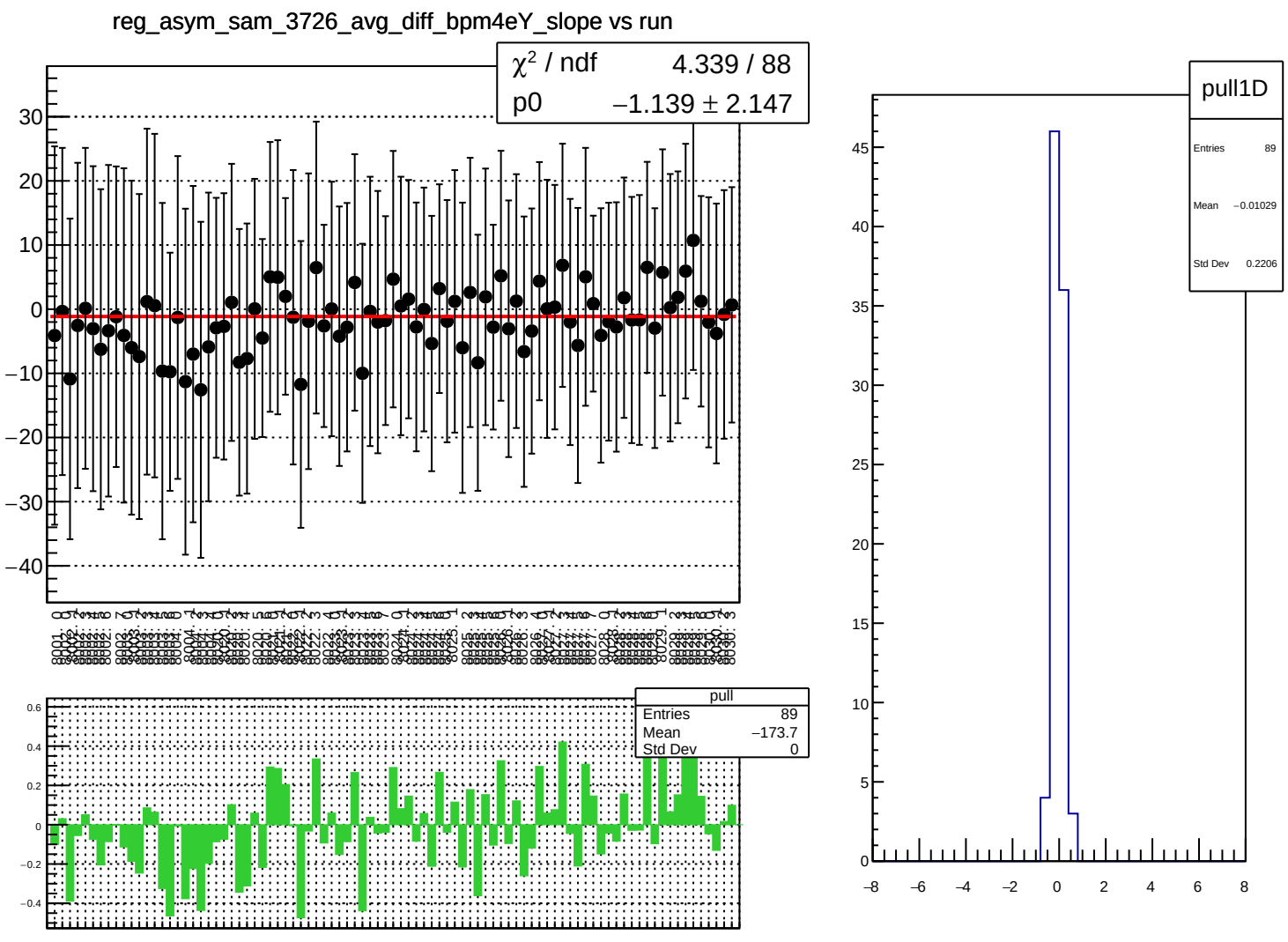

pull1D
Entries 89
Mean −0.1401
Std Dev 0.6294

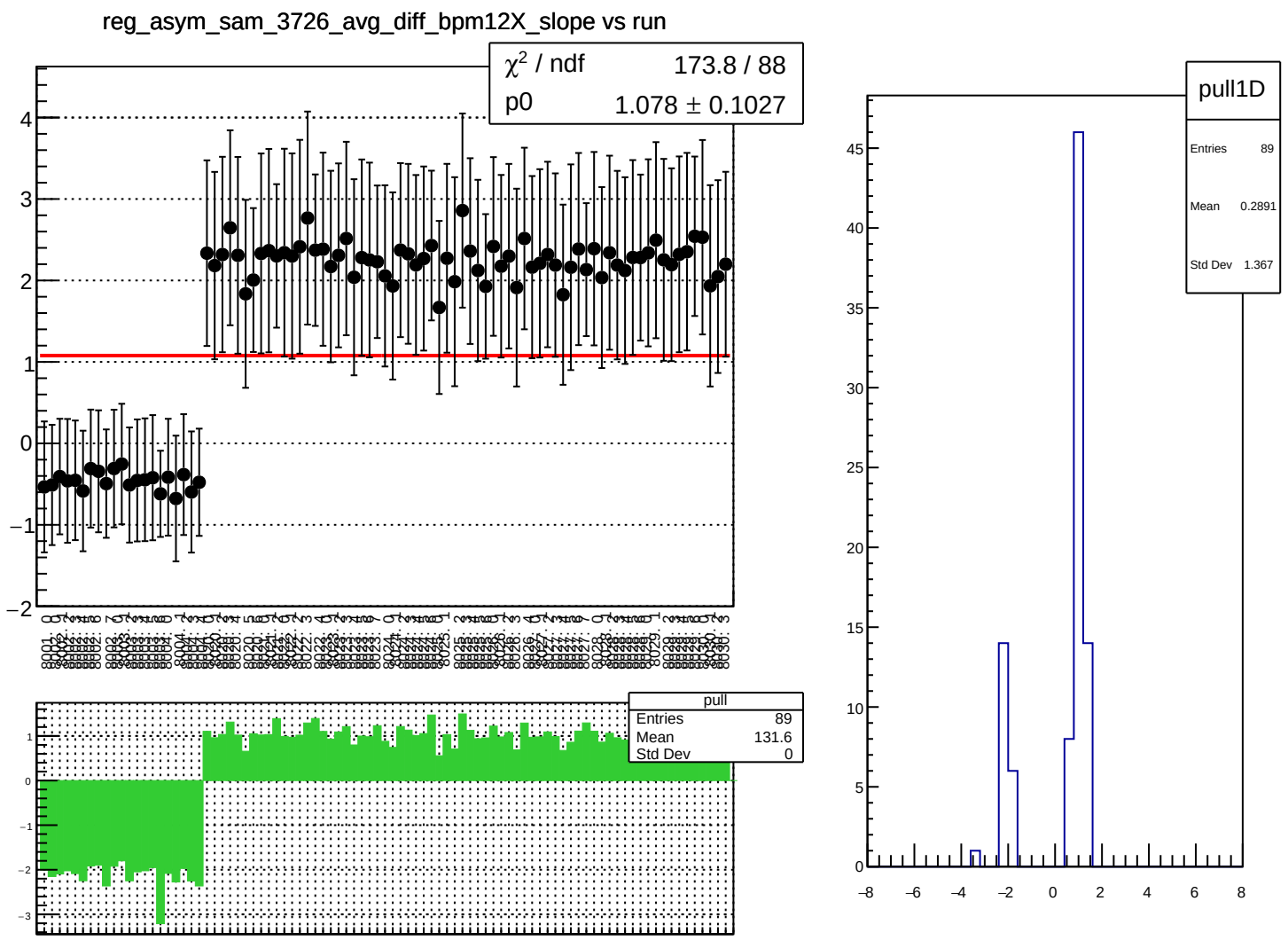

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.511 / 88
p0 −10.33 ± 2.005
pull
Entries 89
Mean −288.4
Std Dev 0

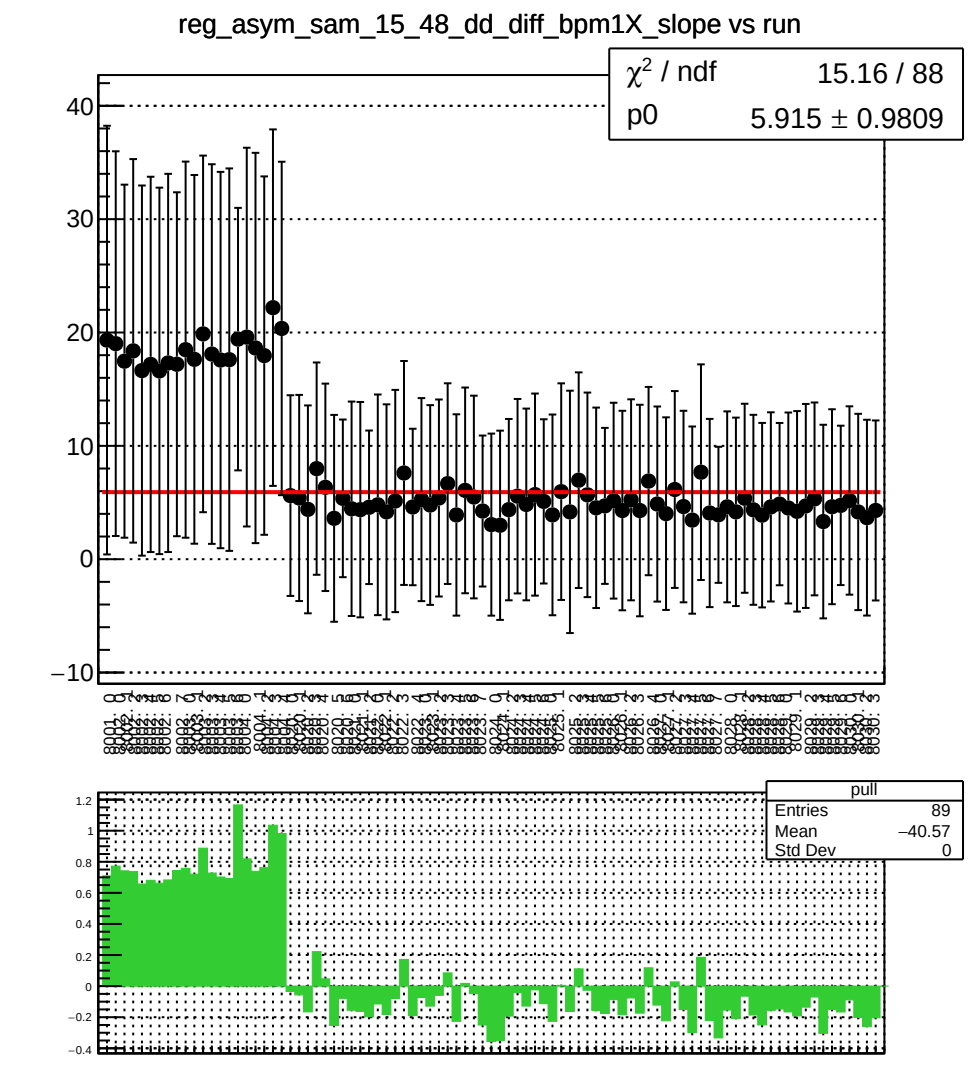

pull1D
Entries 89
Mean 0.007608
Std Dev 0.225

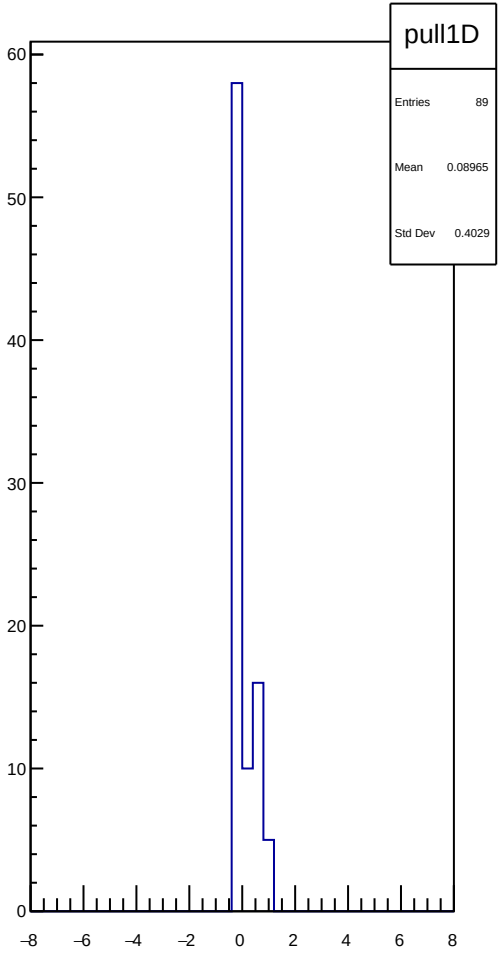

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 22.68 / 88
p0 −49.42 ± 1.309
pull
Entries 89
Mean −65.65
Std Dev 0

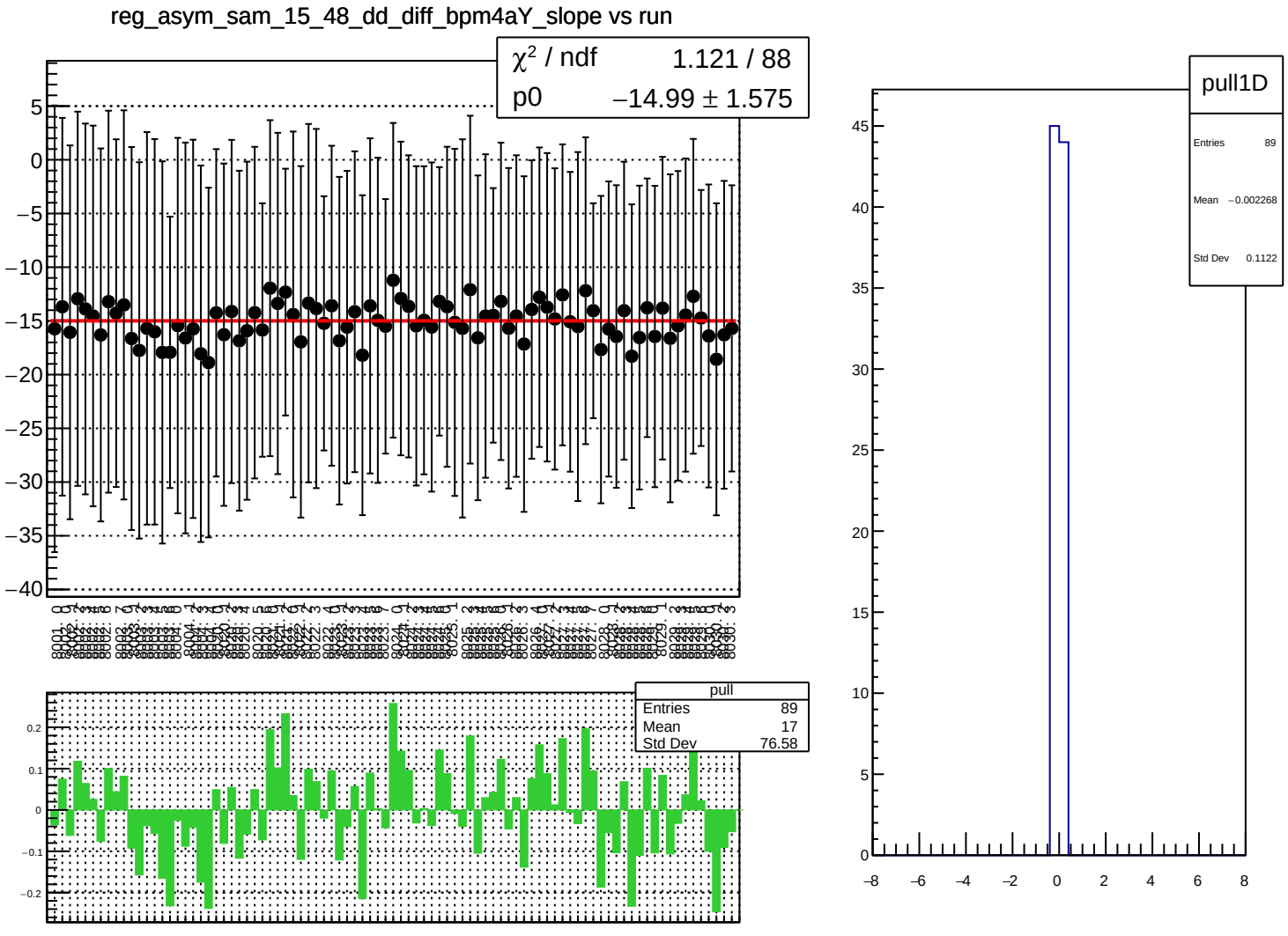

pull1D
Entries 89
Mean 0.08531
Std Dev 0.4975

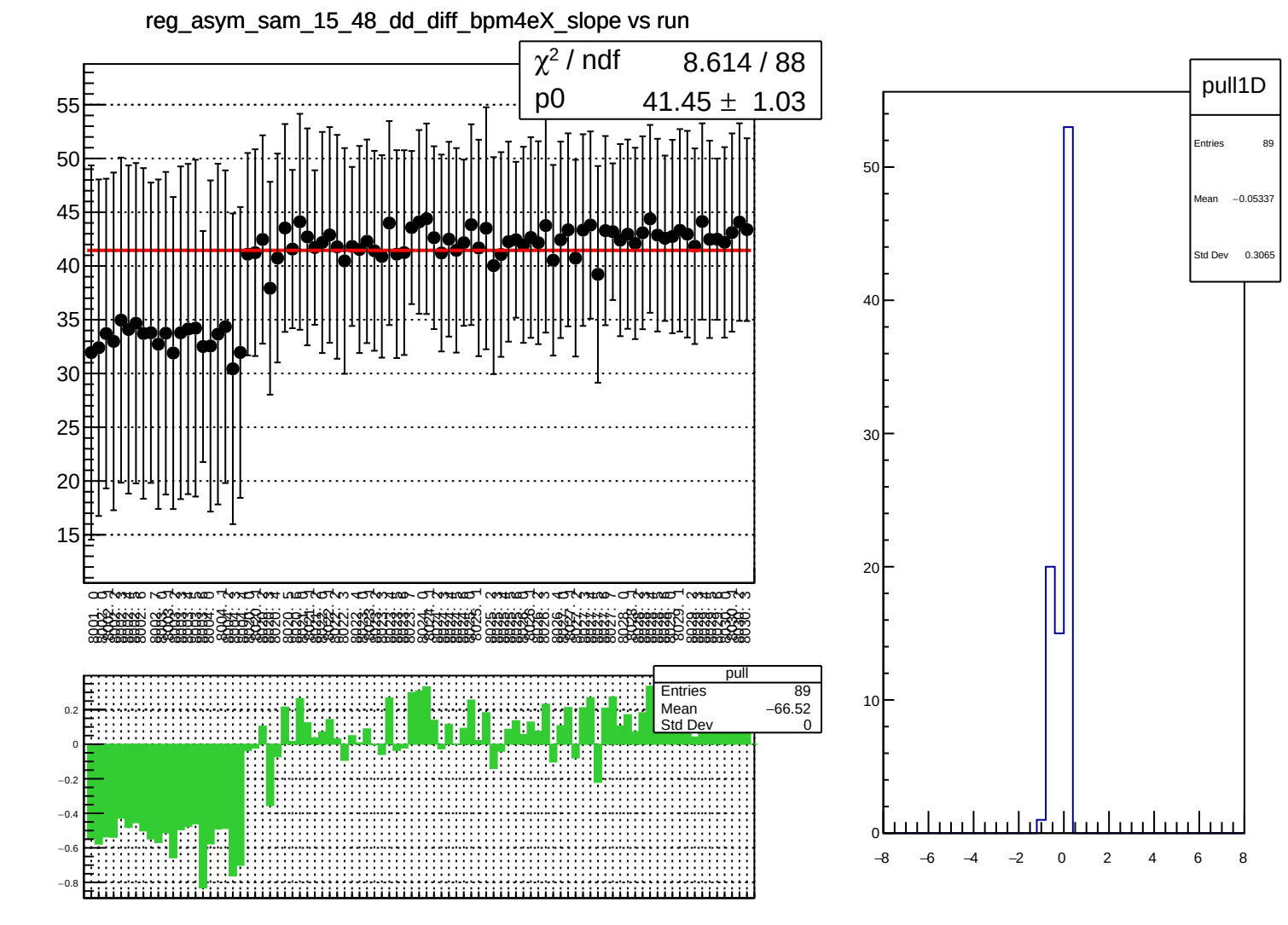

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.339 / 88
p0 −1.139 ± 2.147
pull
Entries 89
Mean −173.7
Std Dev 0
pull1D
Entries 89
Mean −0.01029
Std Dev 0.2206

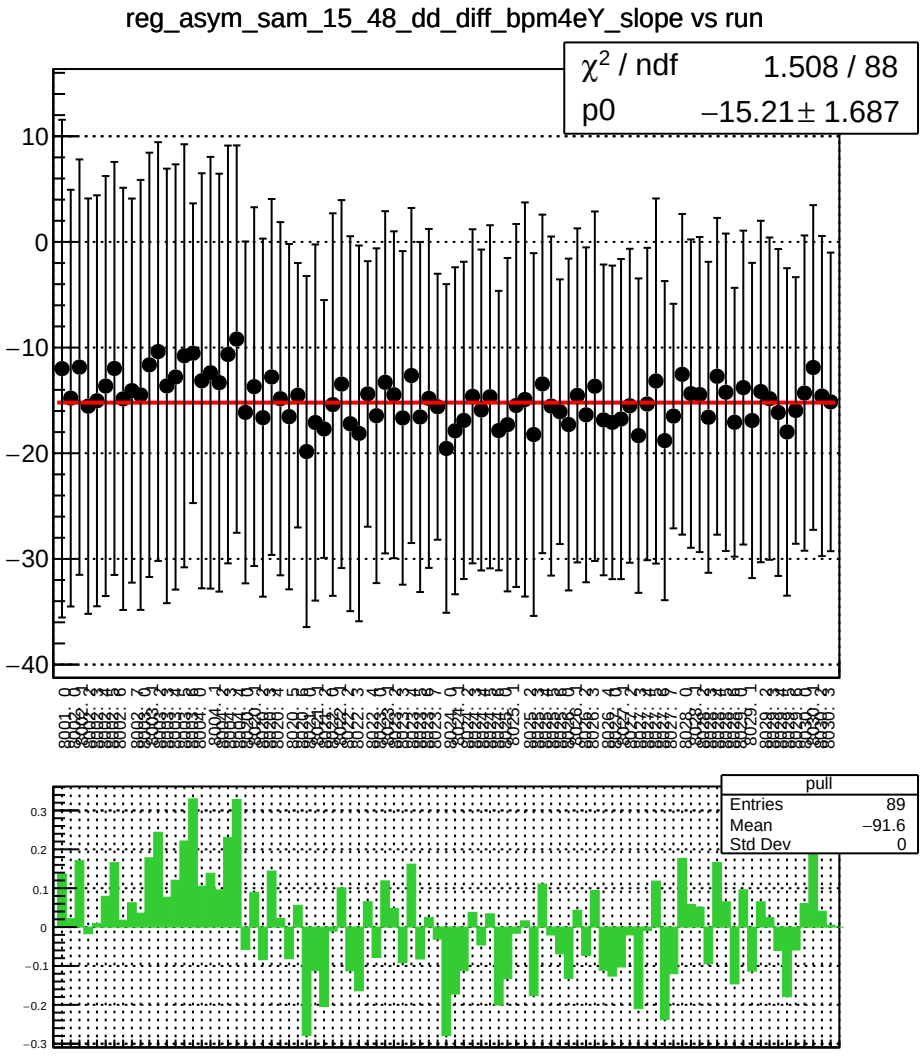

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 173.8 / 88
p0 1.078 ± 0.1027
pull
Entries 89
Mean 131.6
Std Dev 0
pull1D
Entries 89
Mean 0.2891
Std Dev 1.367

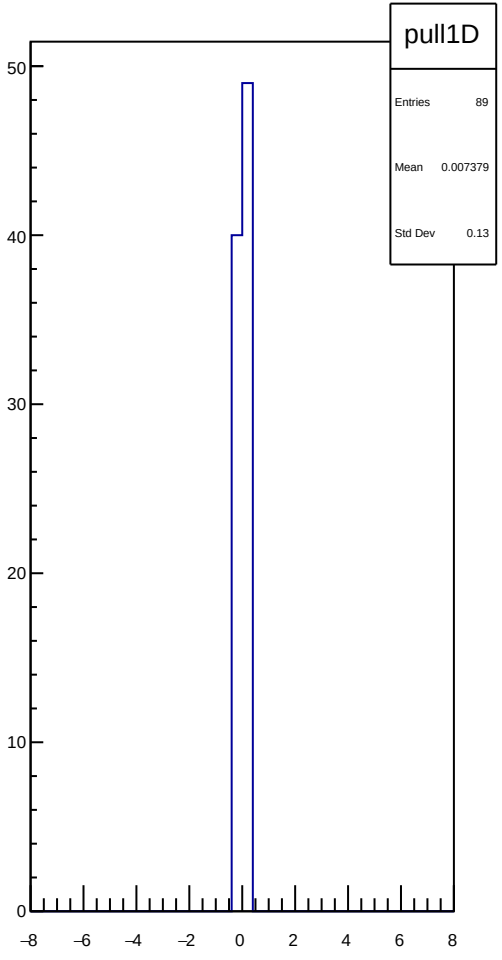

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 15.16 / 88
p0 5.915 ± 0.9809
pull
Entries 89
Mean −40.57
Std Dev 0

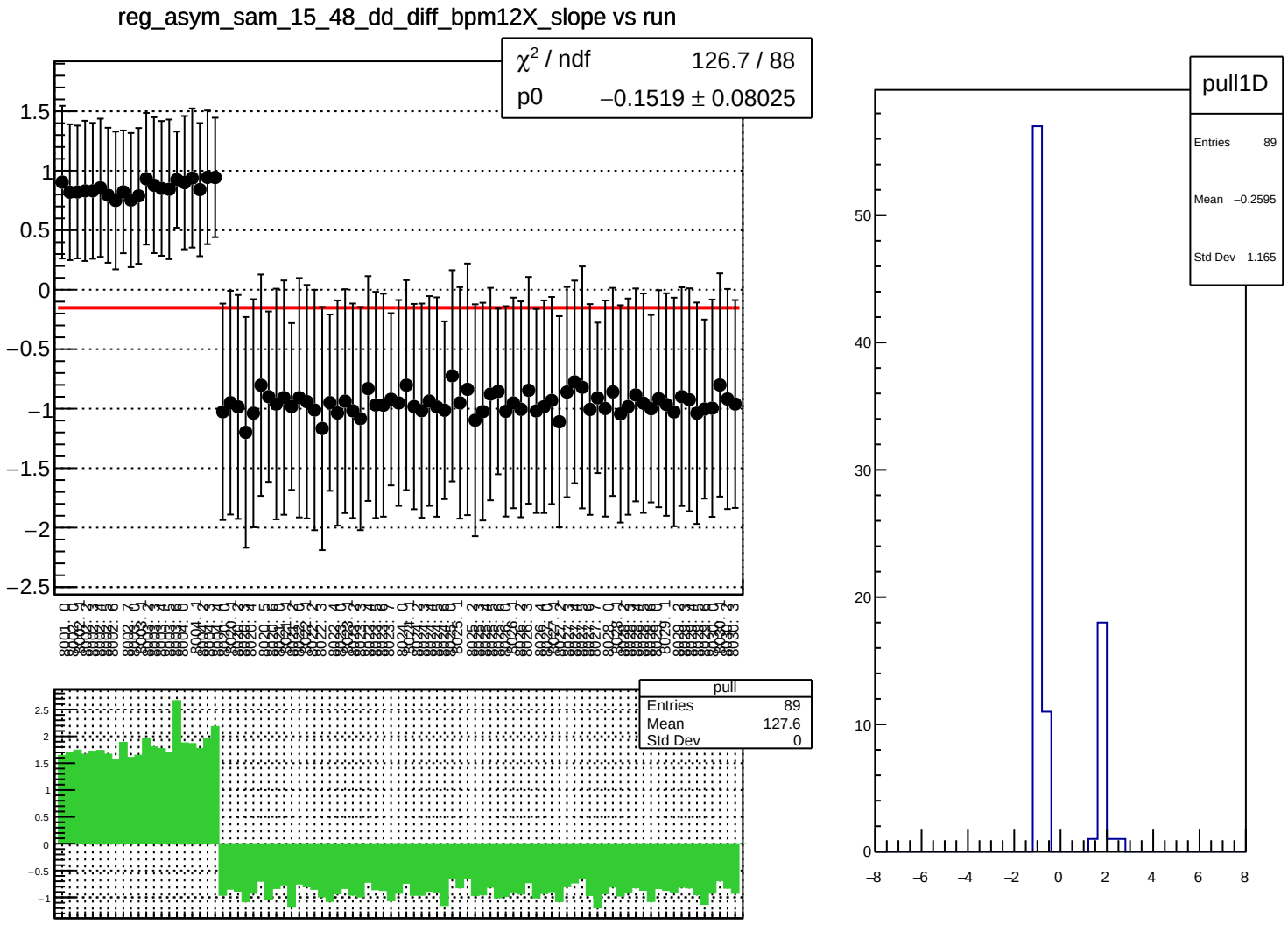

pull1D
Entries 89
Mean 0.08965
Std Dev 0.4029

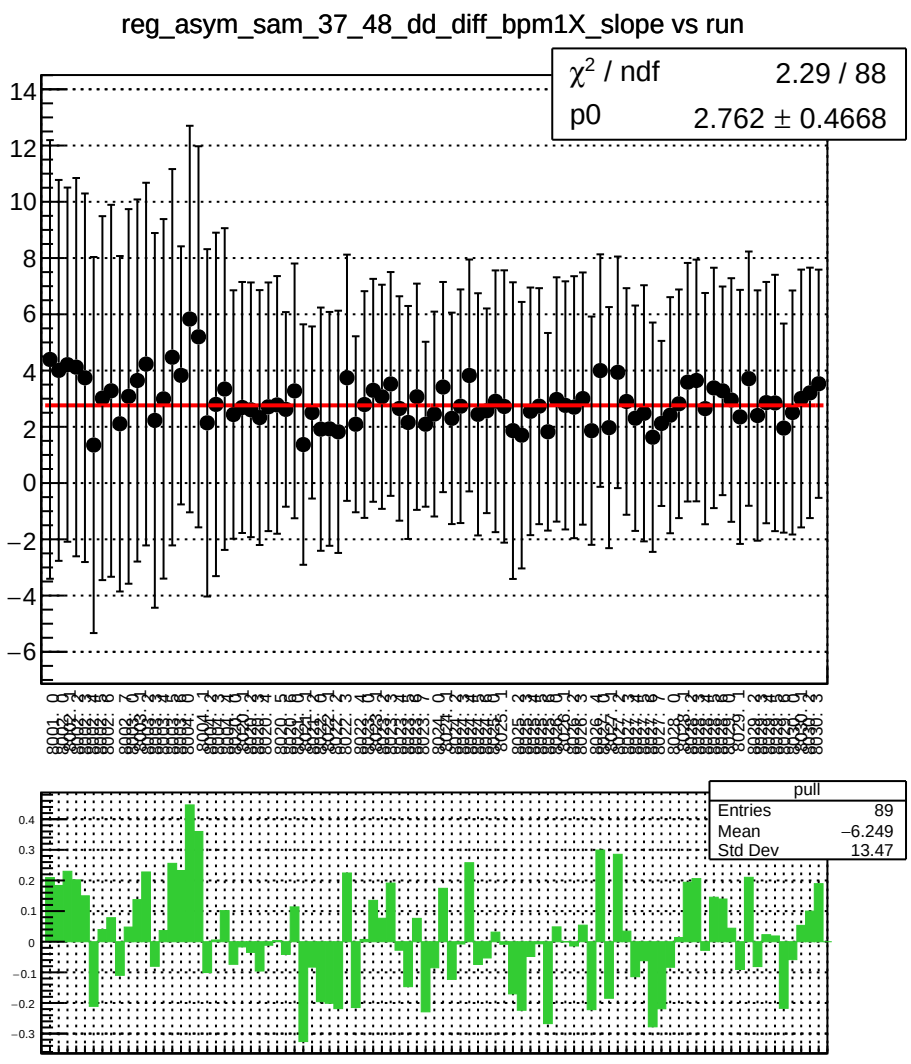

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.121 / 88
p0 −14.99 ± 1.575
pull
Entries 89
Mean 17
Std Dev 76.58
pull1D
Entries 89
Mean −0.002268
Std Dev 0.1122

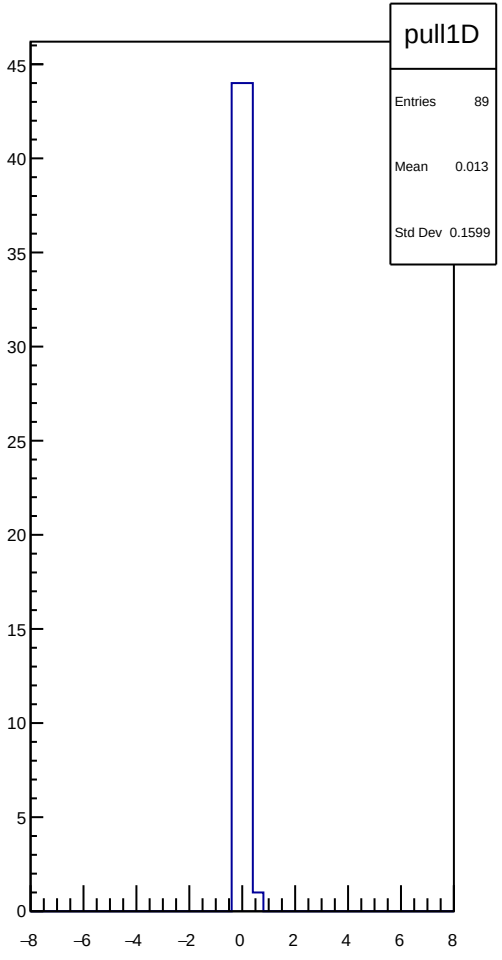

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.614 / 88
p0 41.45 ± 1.03
pull
Entries 89
Mean −66.52
Std Dev 0
pull1D
Entries 89
Mean −0.05337
Std Dev 0.3065

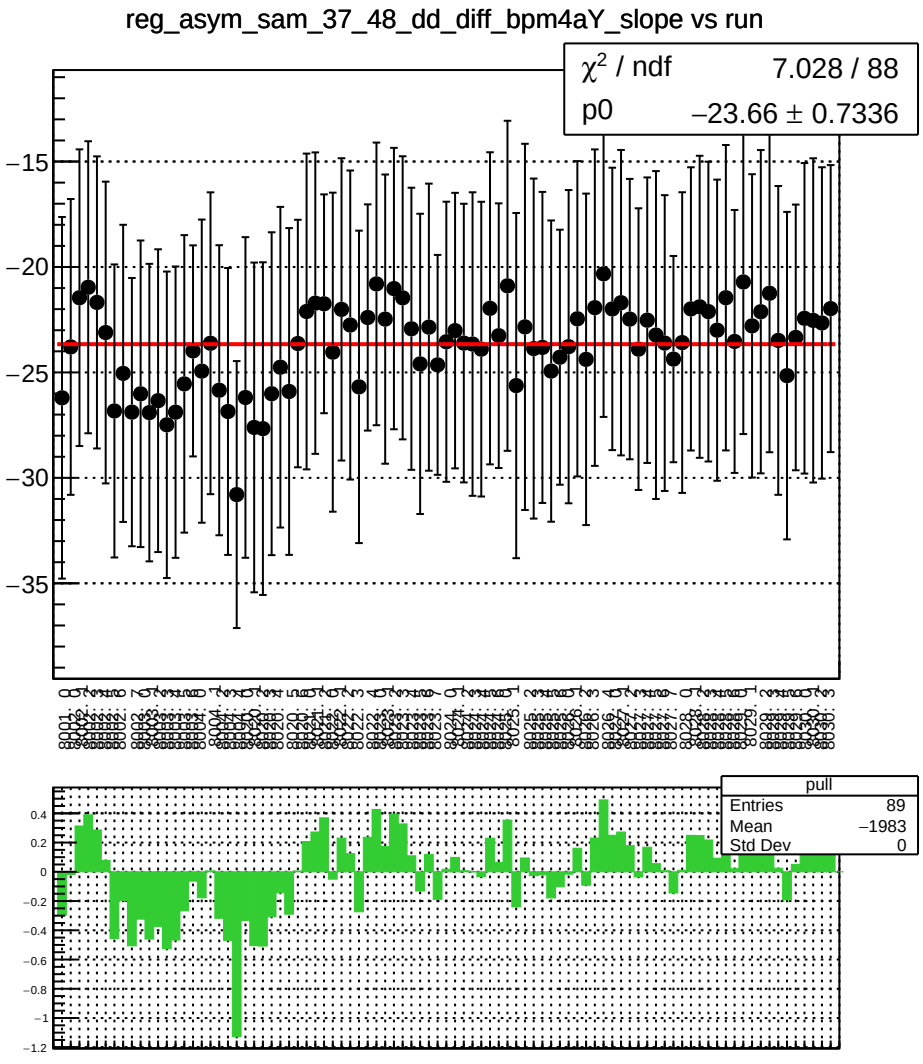

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.508 / 88
p0 −15.21± 1.687
pull
Entries 89
Mean −91.6
Std Dev 0

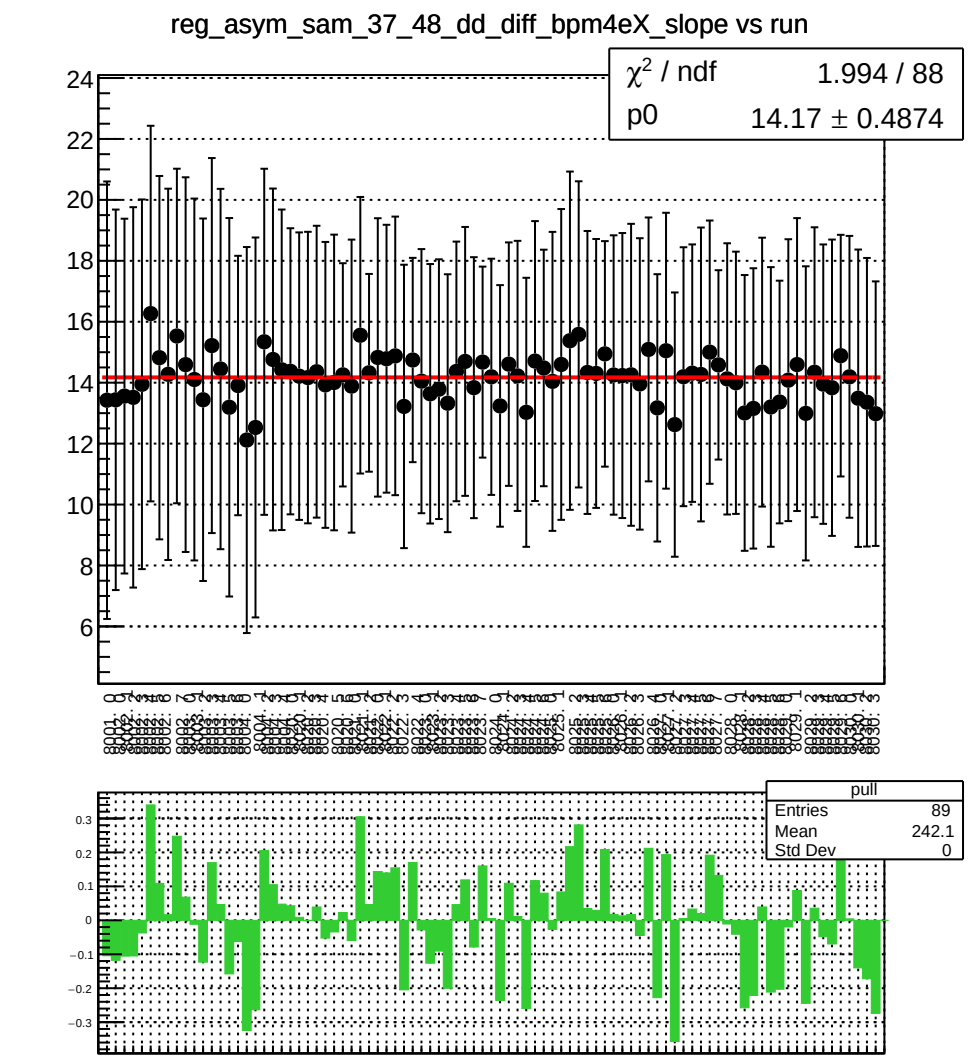

pull1D
Entries 89
Mean 0.007379
Std Dev 0.13

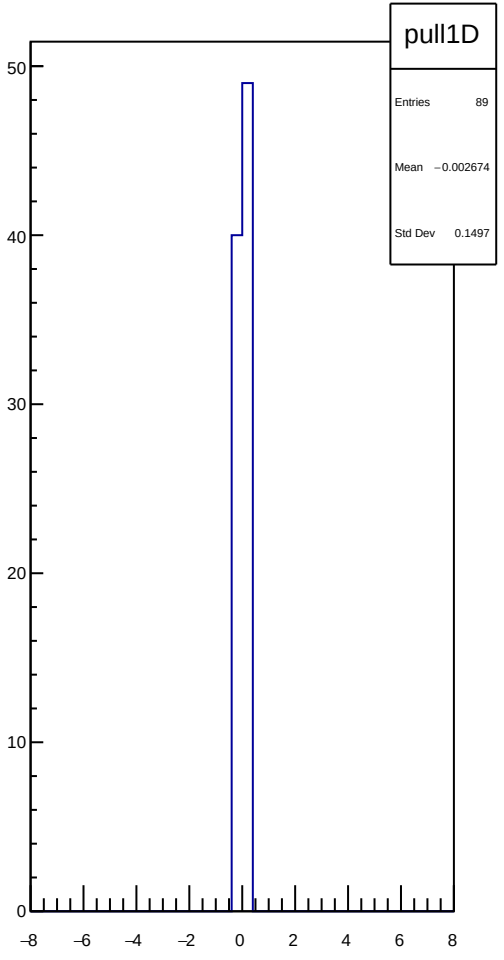

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 126.7 / 88
p0 −0.1519 ± 0.08025
pull
Entries 89
Mean 127.6
Std Dev 0
pull1D
Entries 89
Mean −0.2595
Std Dev 1.165

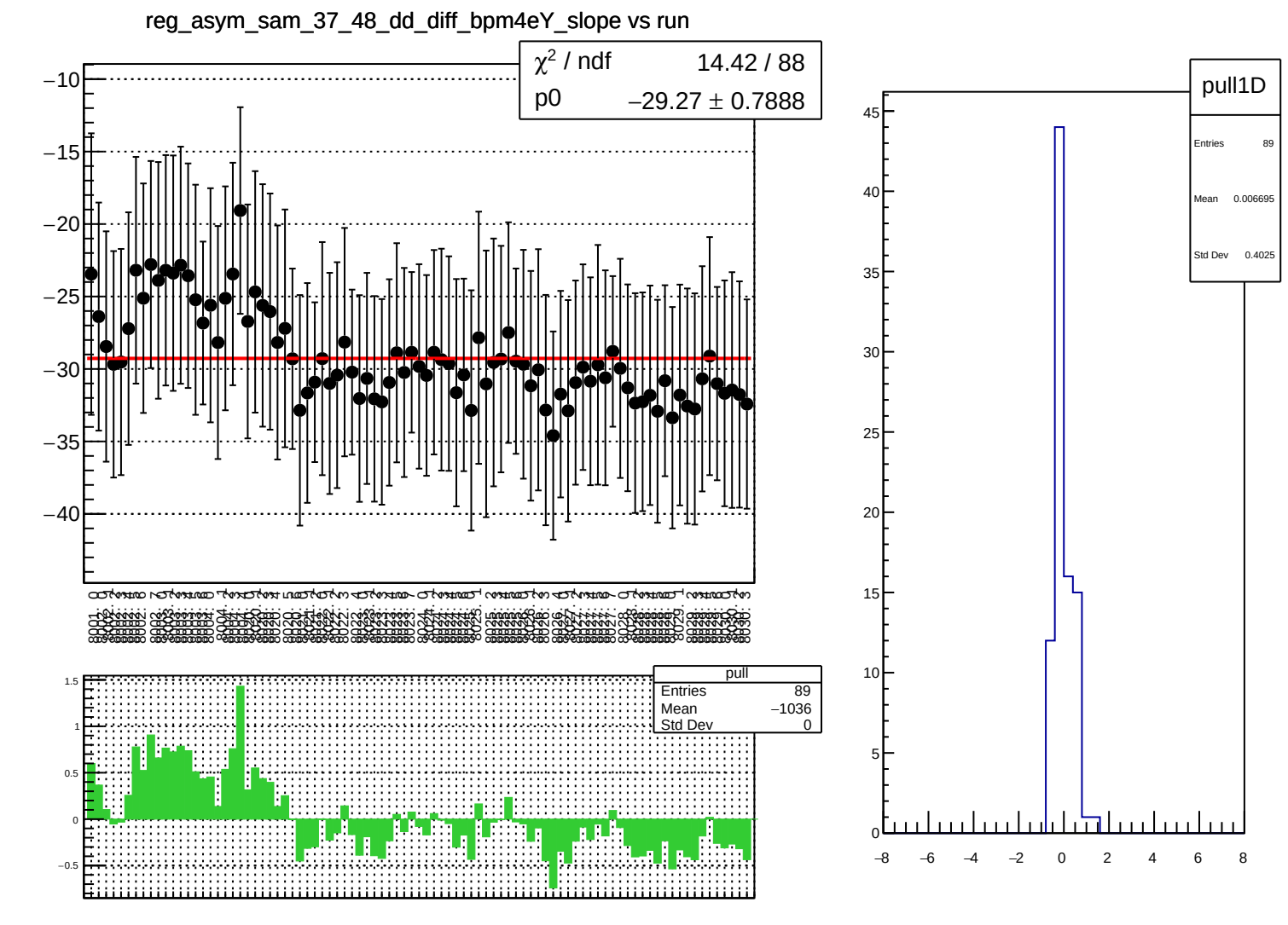

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 2.29 / 88
p0 2.762 ± 0.4668
pull
Entries 89
Mean −6.249
Std Dev 13.47

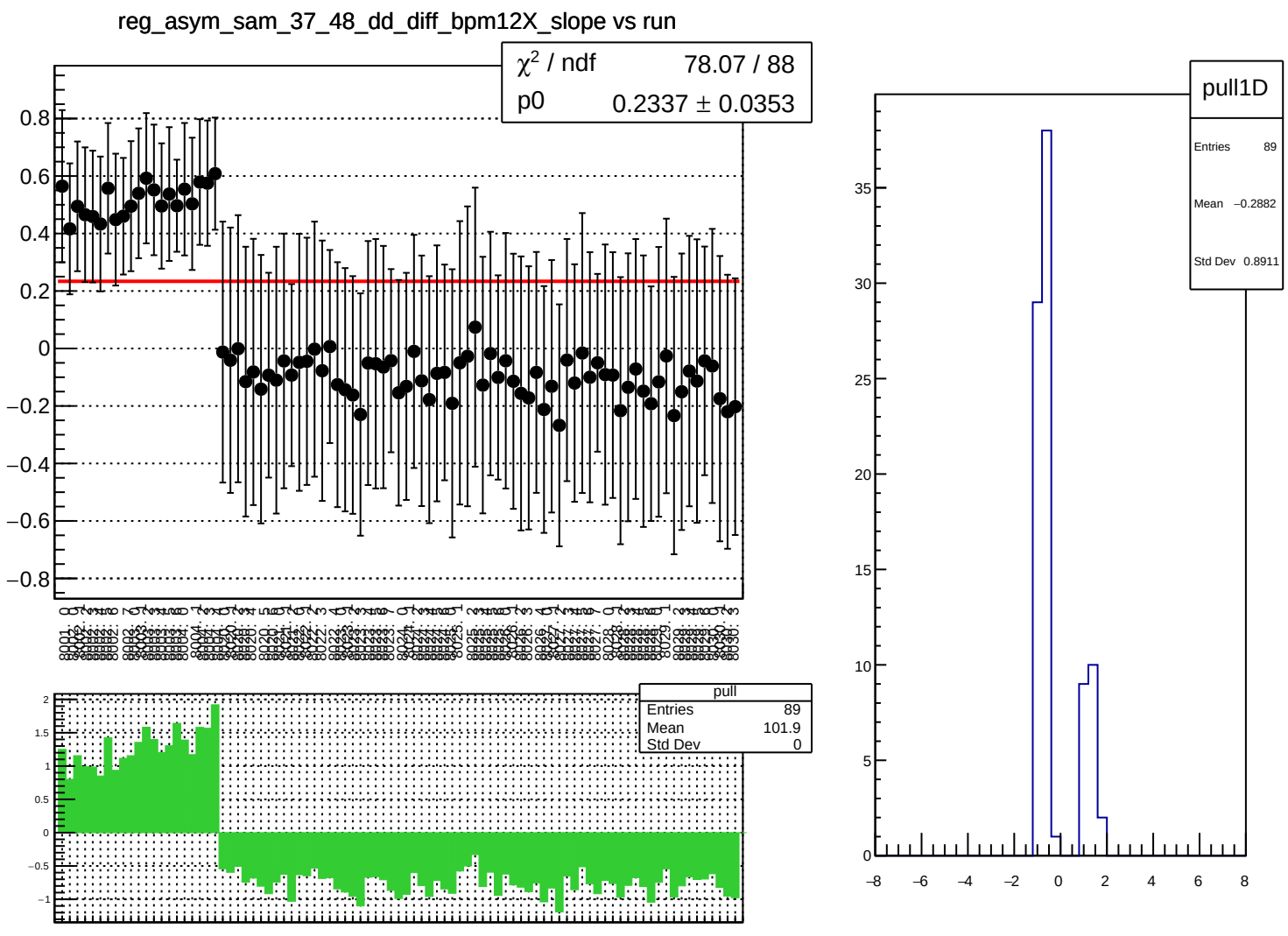

pull1D
Entries 89
Mean 0.013
Std Dev 0.1599

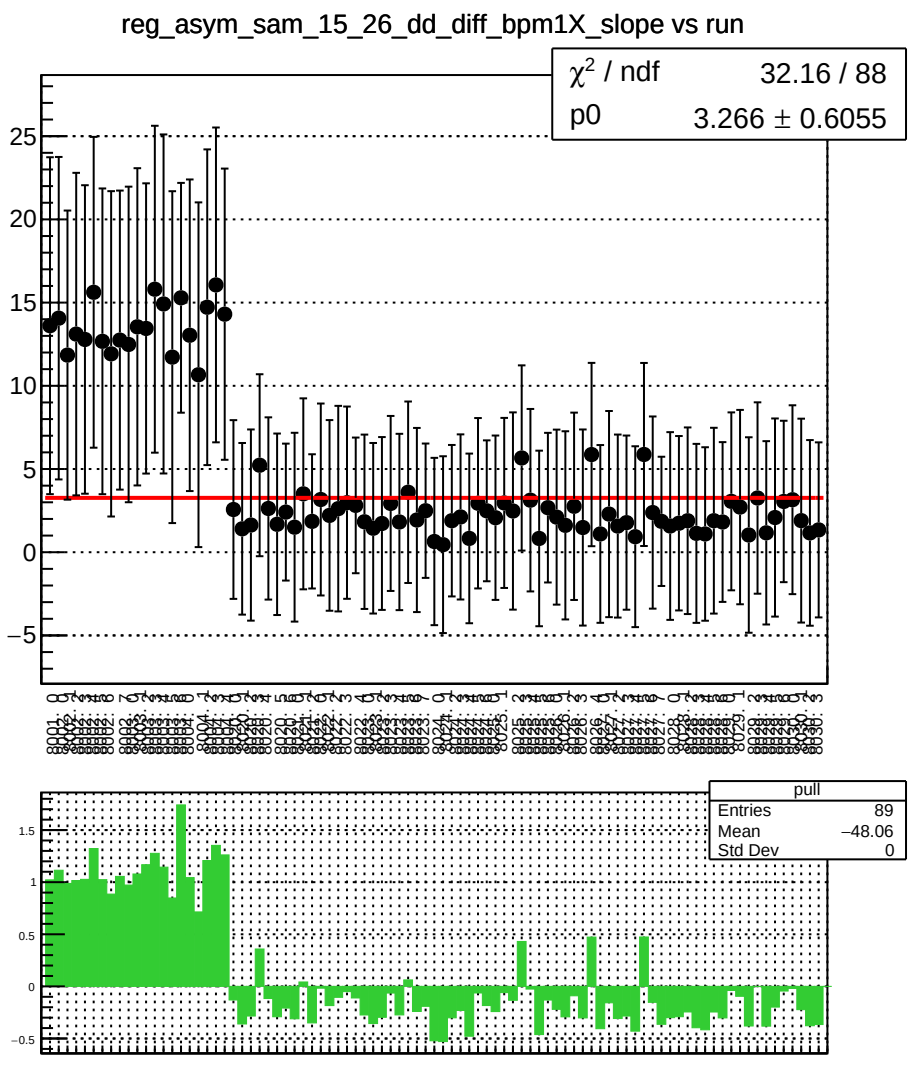

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.028 / 88
p0 −23.66 ± 0.7336
pull
Entries 89
Mean −1983
Std Dev 0
pull1D
Entries 89
Mean −0.001599
Std Dev 0.281

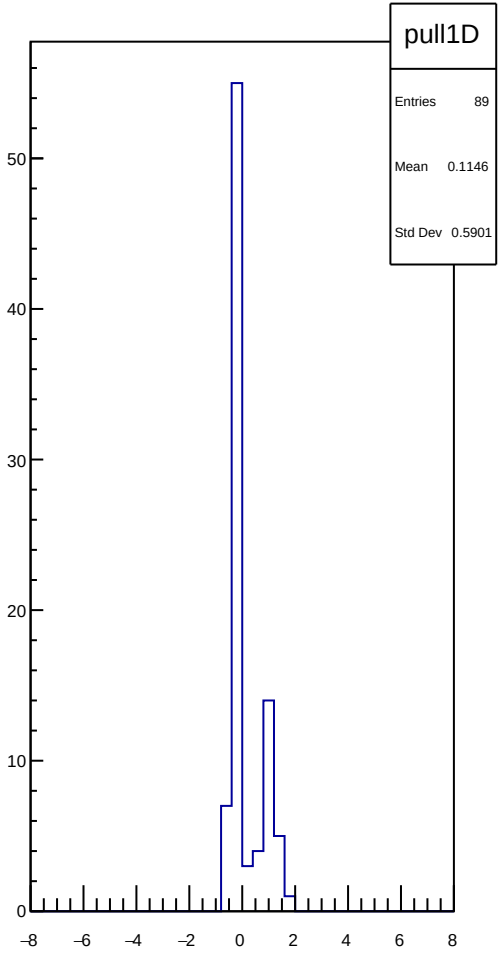

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.994 / 88
p0 14.17 ± 0.4874
pull
Entries 89
Mean 242.1
Std Dev 0

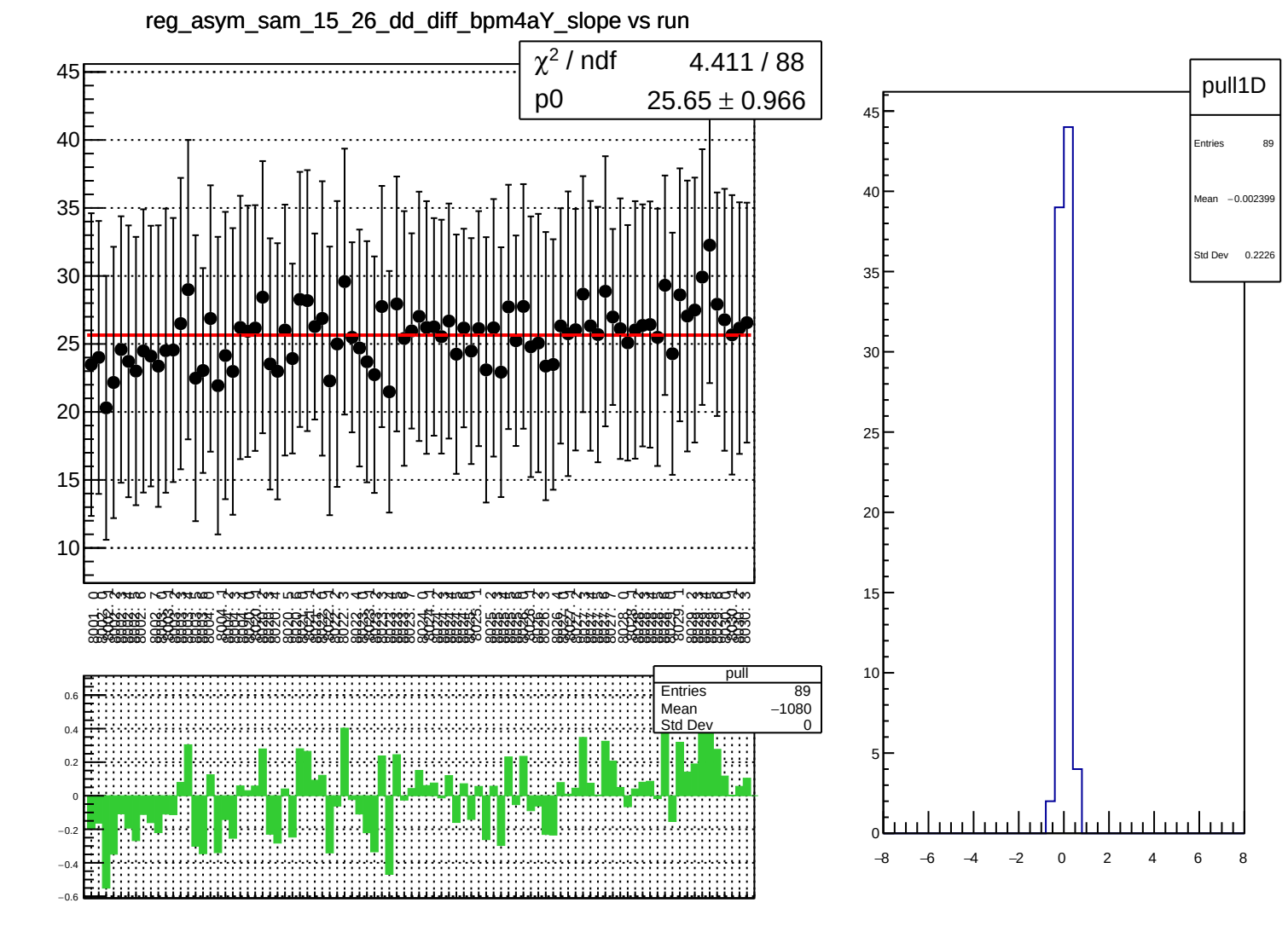

pull1D
Entries 89
Mean −0.002674
Std Dev 0.1497

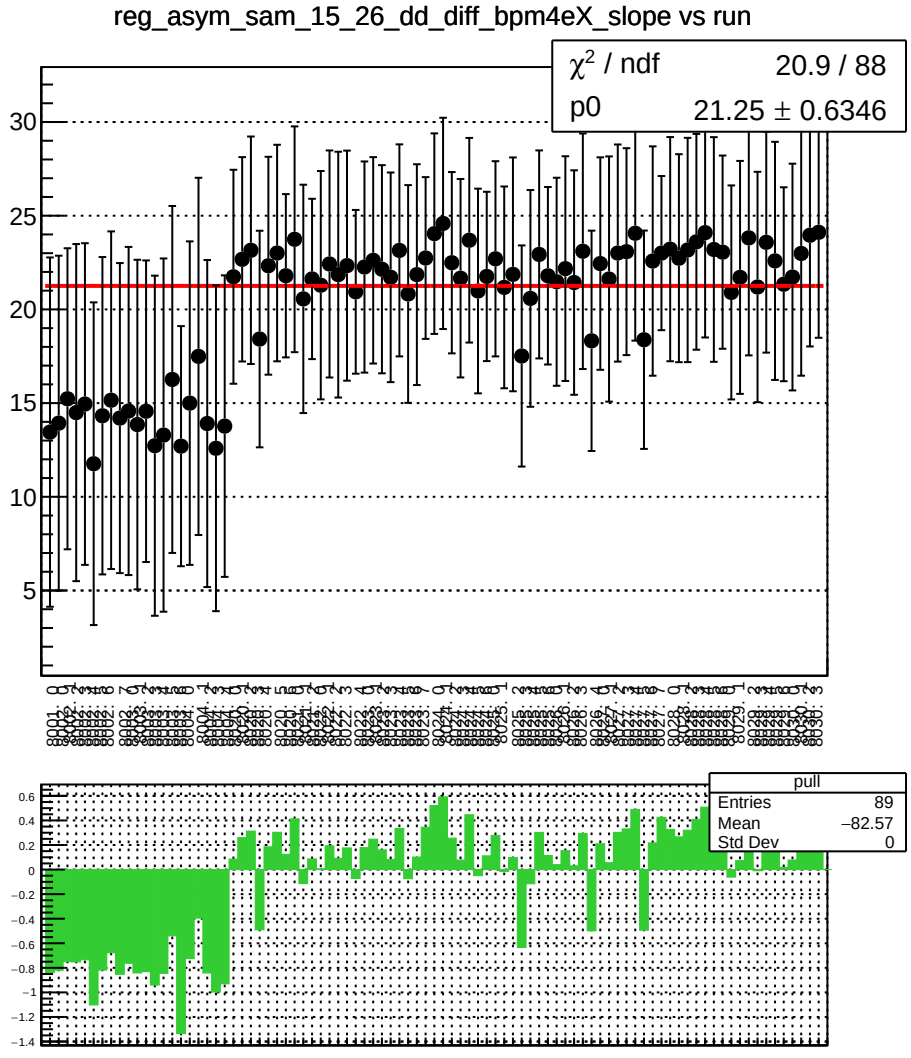

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.42 / 88
p0 −29.27 ± 0.7888
pull
Entries 89
Mean −1036
Std Dev 0
pull1D
Entries 89
Mean 0.006695
Std Dev 0.4025

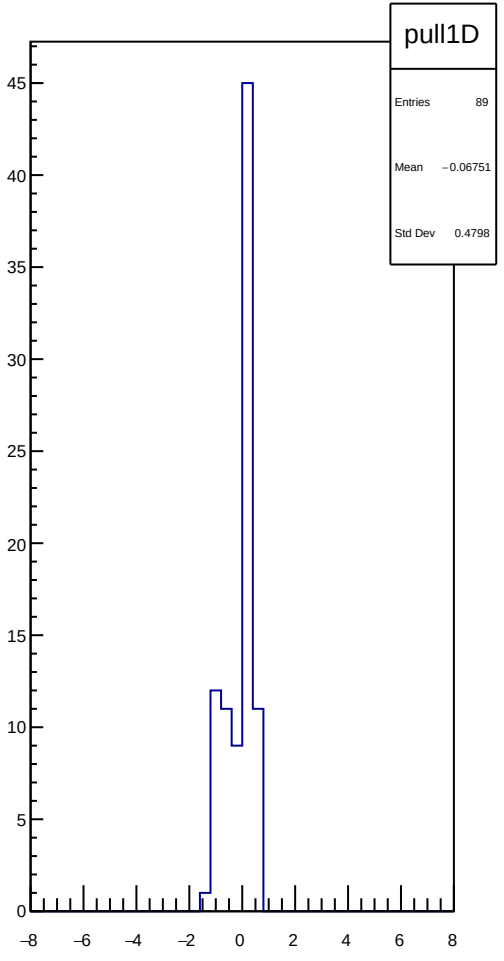

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 78.07 / 88
p0 0.2337 ± 0.0353
pull
Entries 89
Mean 101.9
Std Dev 0
pull1D
Entries 89
Mean −0.2882
Std Dev 0.8911

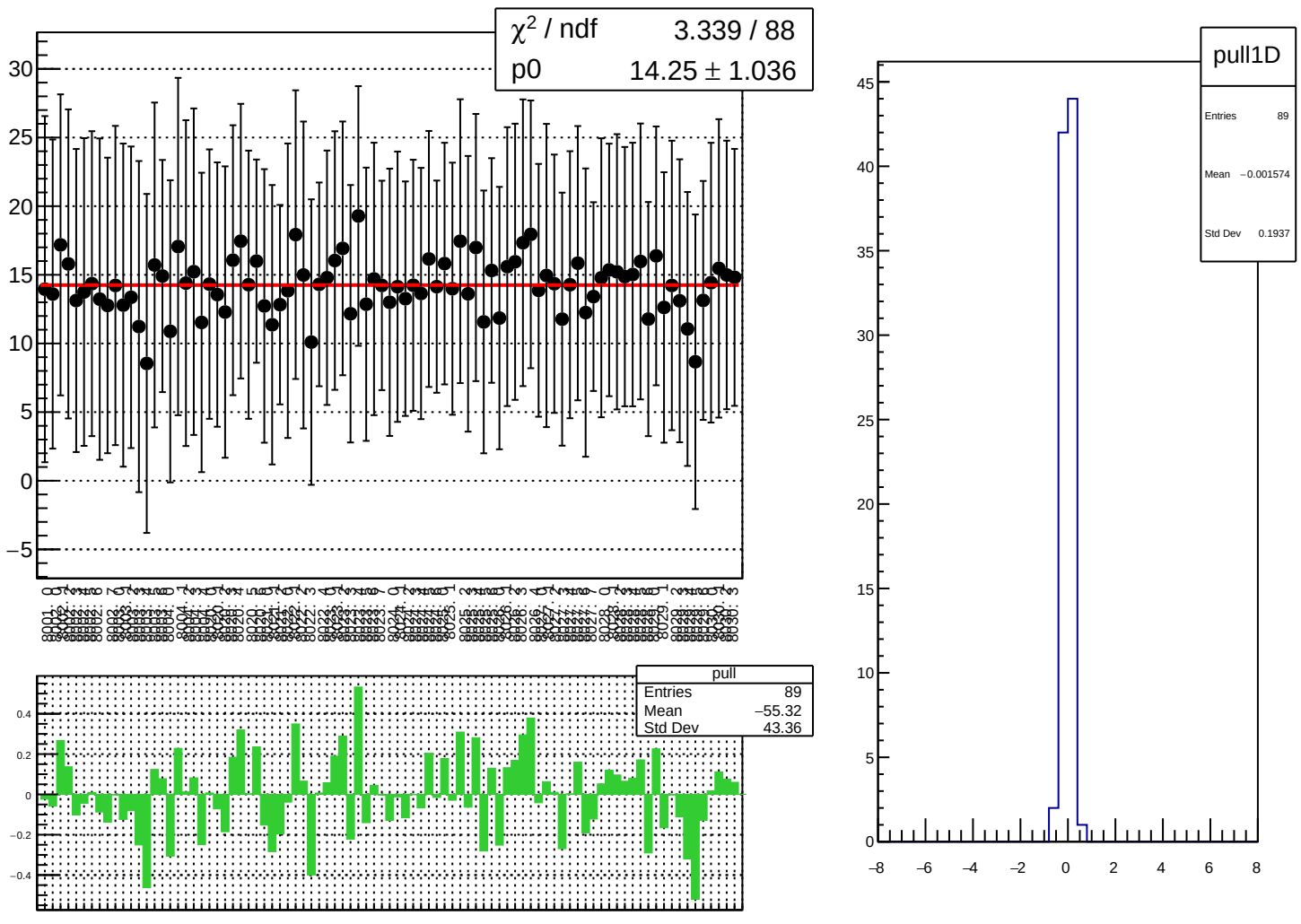

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 32.16 / 88
p0 3.266 ± 0.6055
pull
Entries 89
Mean −48.06
Std Dev 0

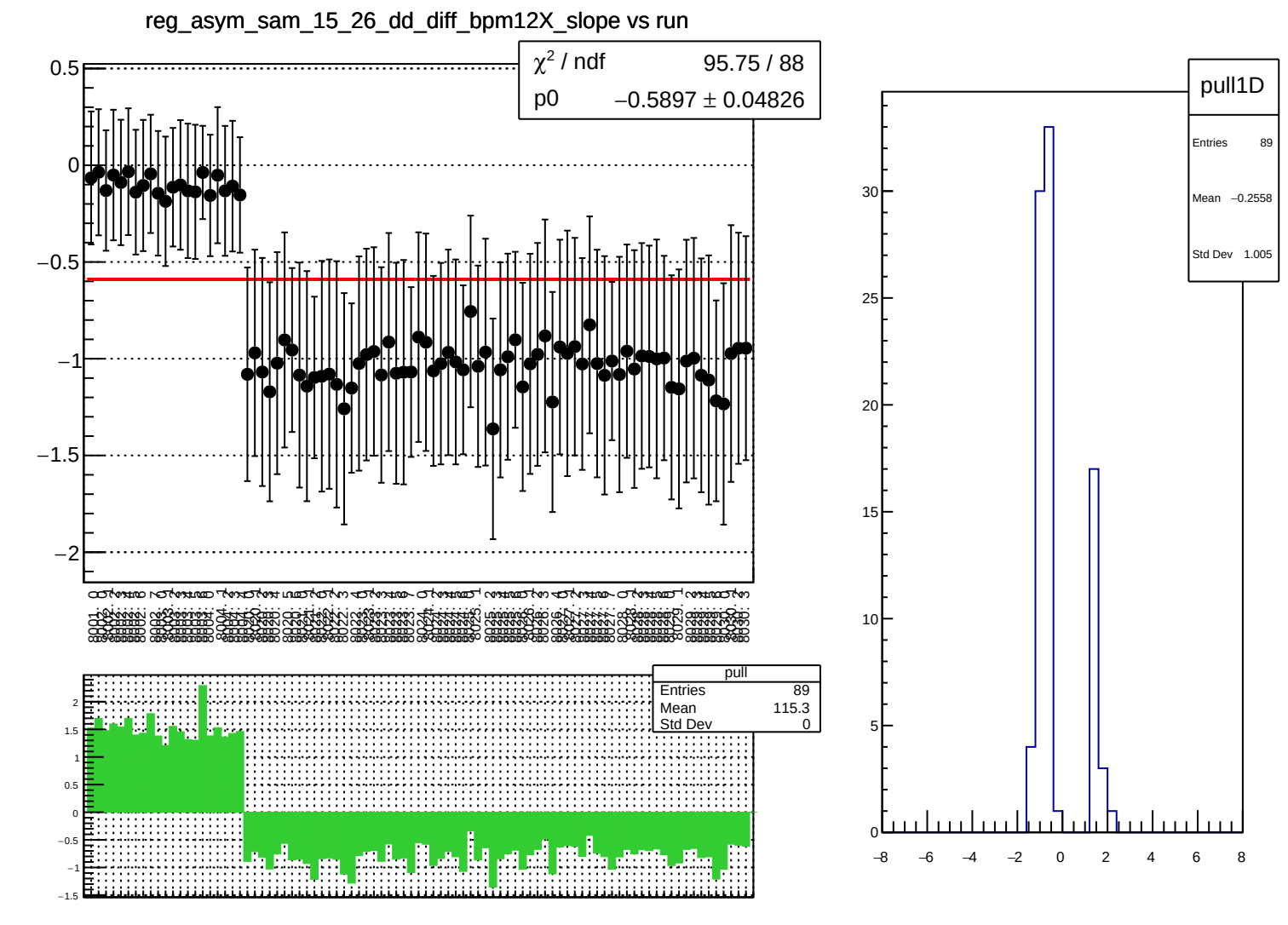

pull1D
Entries 89
Mean 0.1146
Std Dev 0.5901

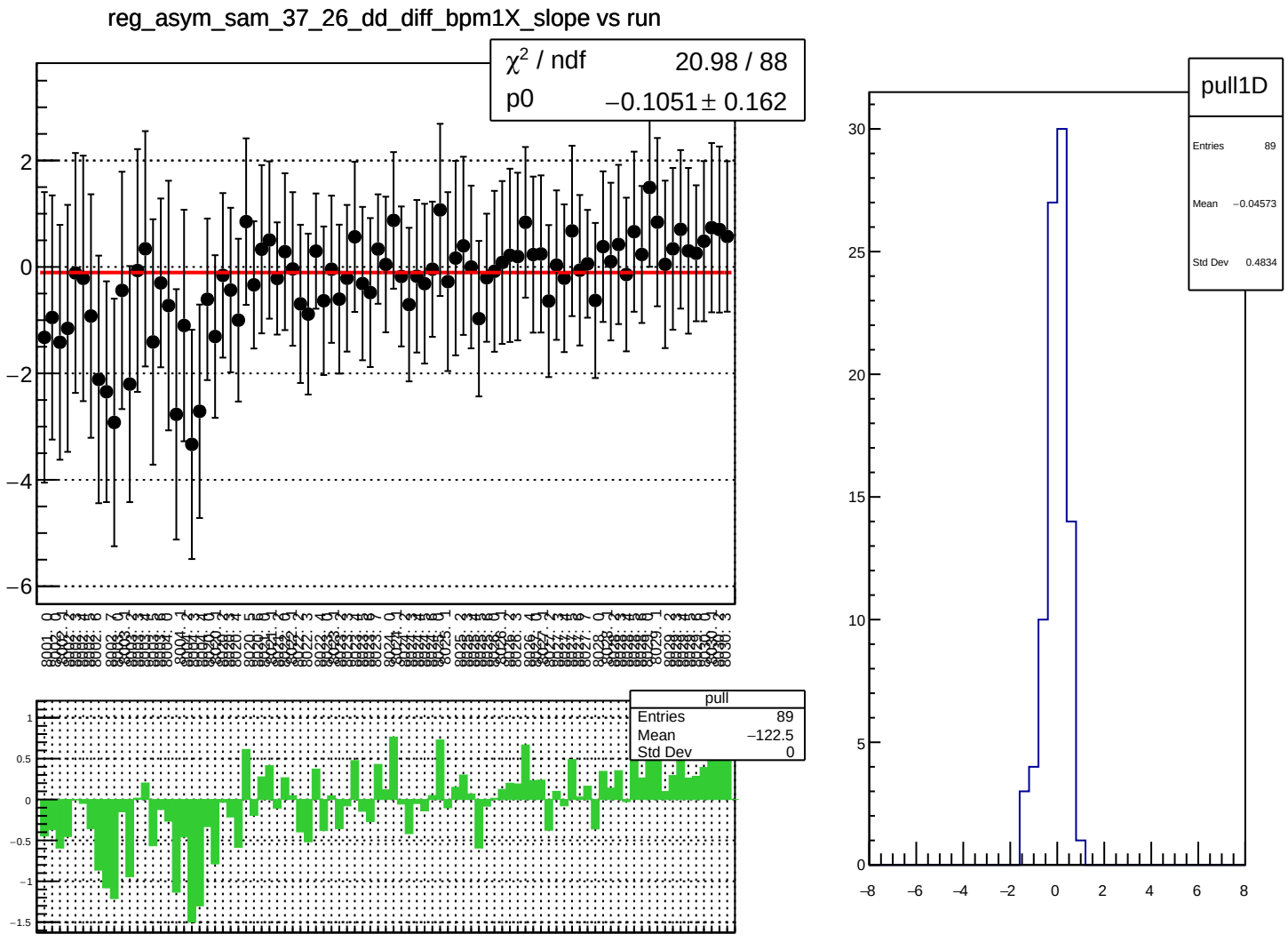

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.411 / 88
p0 25.65 ± 0.966
pull
Entries 89
Mean −1080
Std Dev 0
pull1D
Entries 89
Mean −0.002399
Std Dev 0.2226

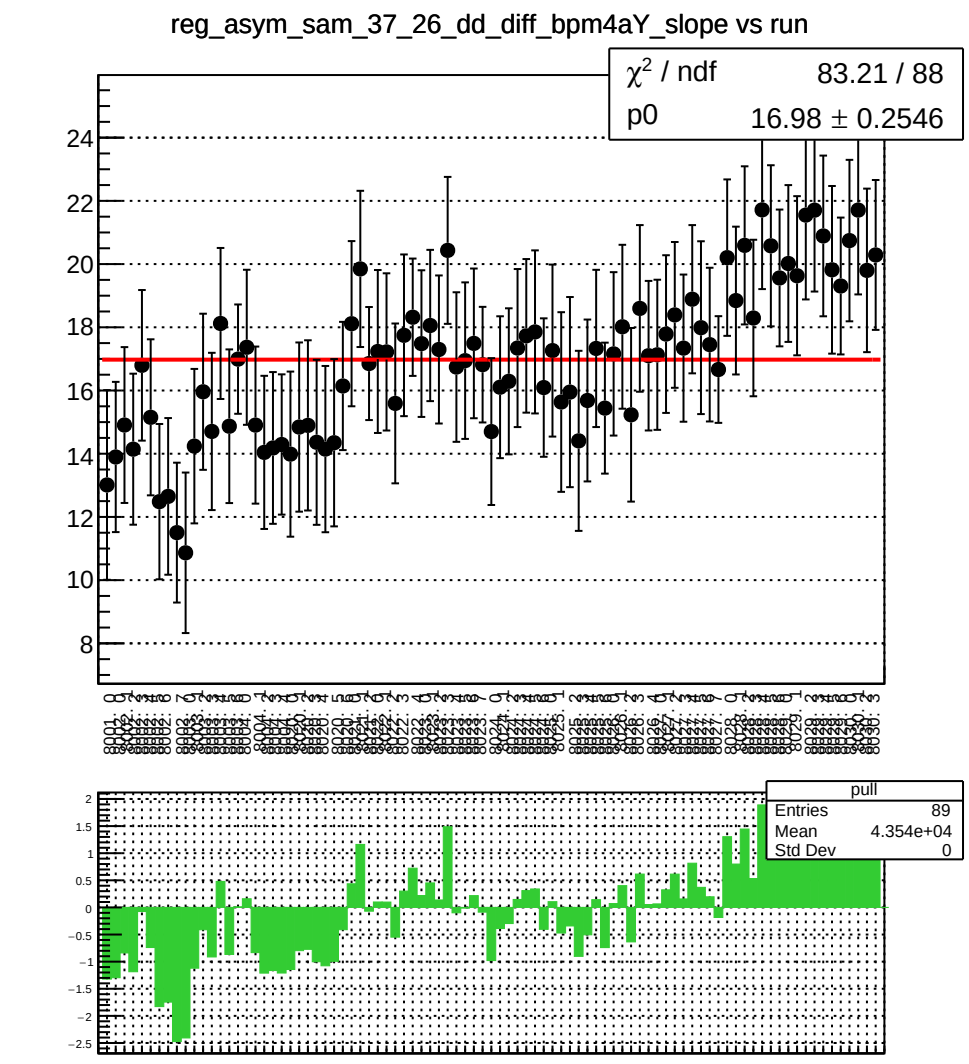

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 20.9 / 88
p0 21.25 ± 0.6346
pull
Entries 89
Mean −82.57
Std Dev 0

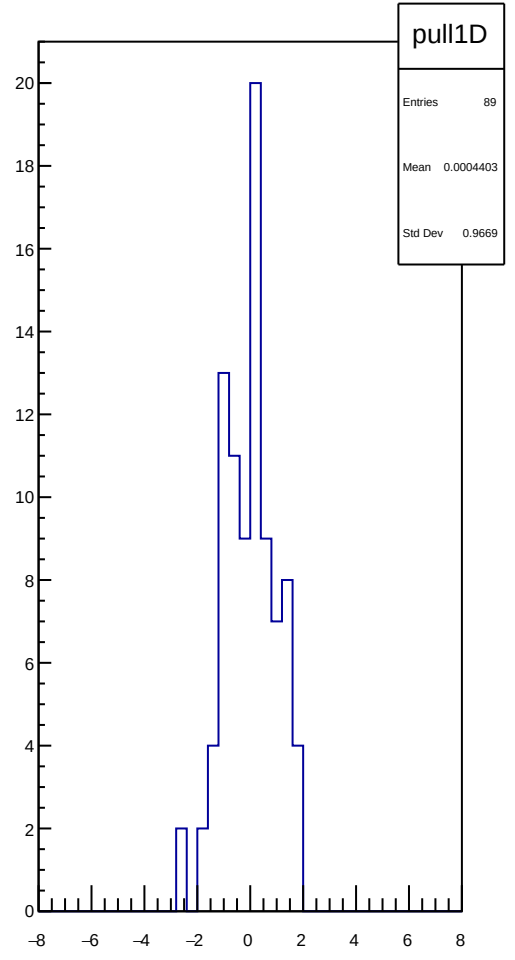

pull1D
Entries 89
Mean −0.06751
Std Dev 0.4798

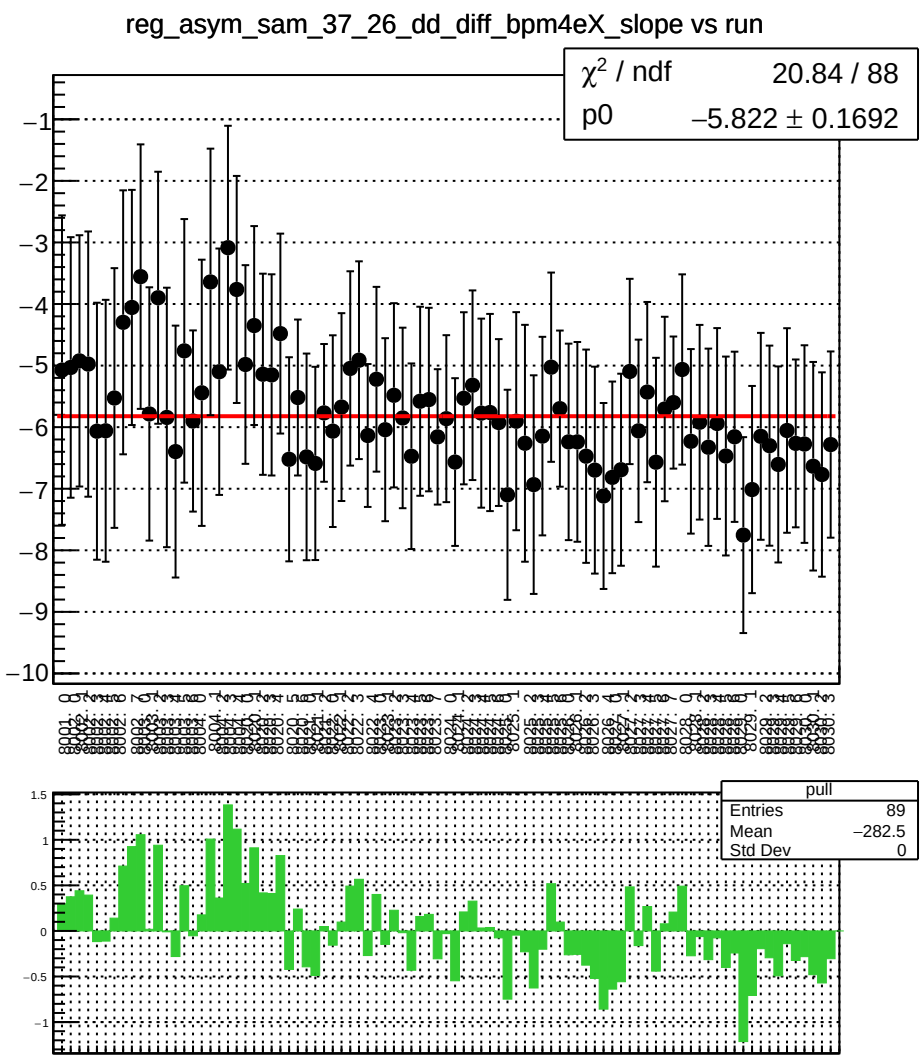

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.339 / 88
p0 14.25 ± 1.036
pull
Entries 89
Mean −55.32
Std Dev 43.36
pull1D
Entries 89
Mean −0.001574
Std Dev 0.1937

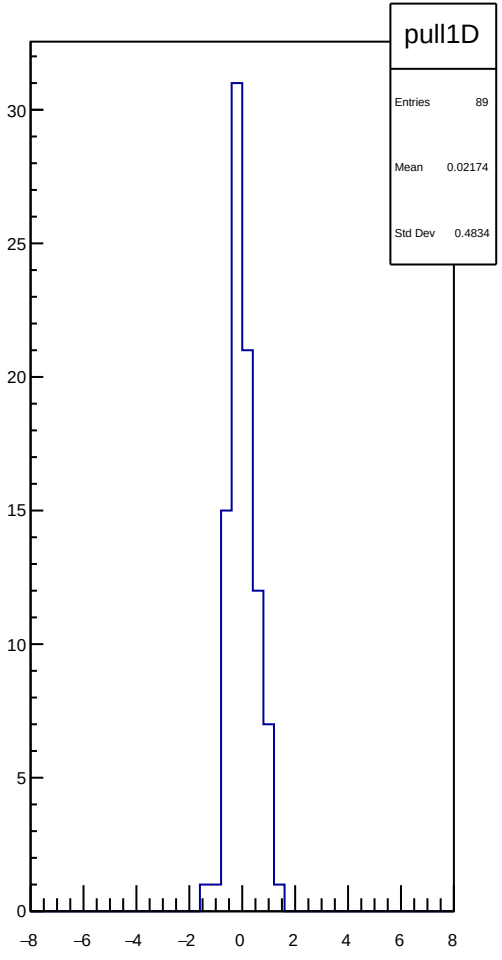

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 95.75 / 88
p0 −0.5897 ± 0.04826
pull
Entries 89
Mean 115.3
Std Dev 0
pull1D
Entries 89
Mean −0.2558
Std Dev 1.005

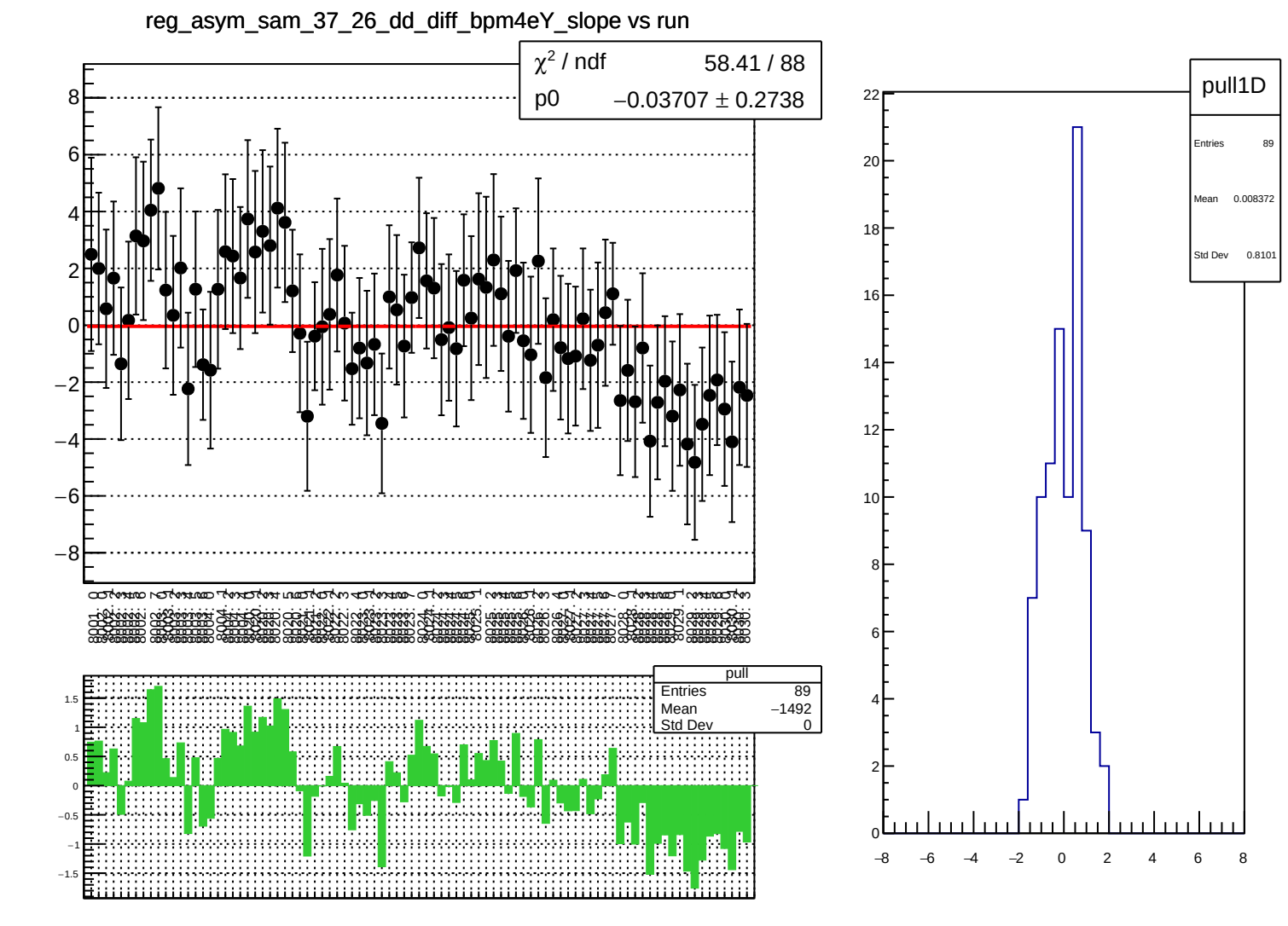

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 20.98 / 88
p0 −0.1051 ± 0.162
pull
Entries 89
Mean −122.5
Std Dev 0
pull1D
Entries 89
Mean −0.04573
Std Dev 0.4834

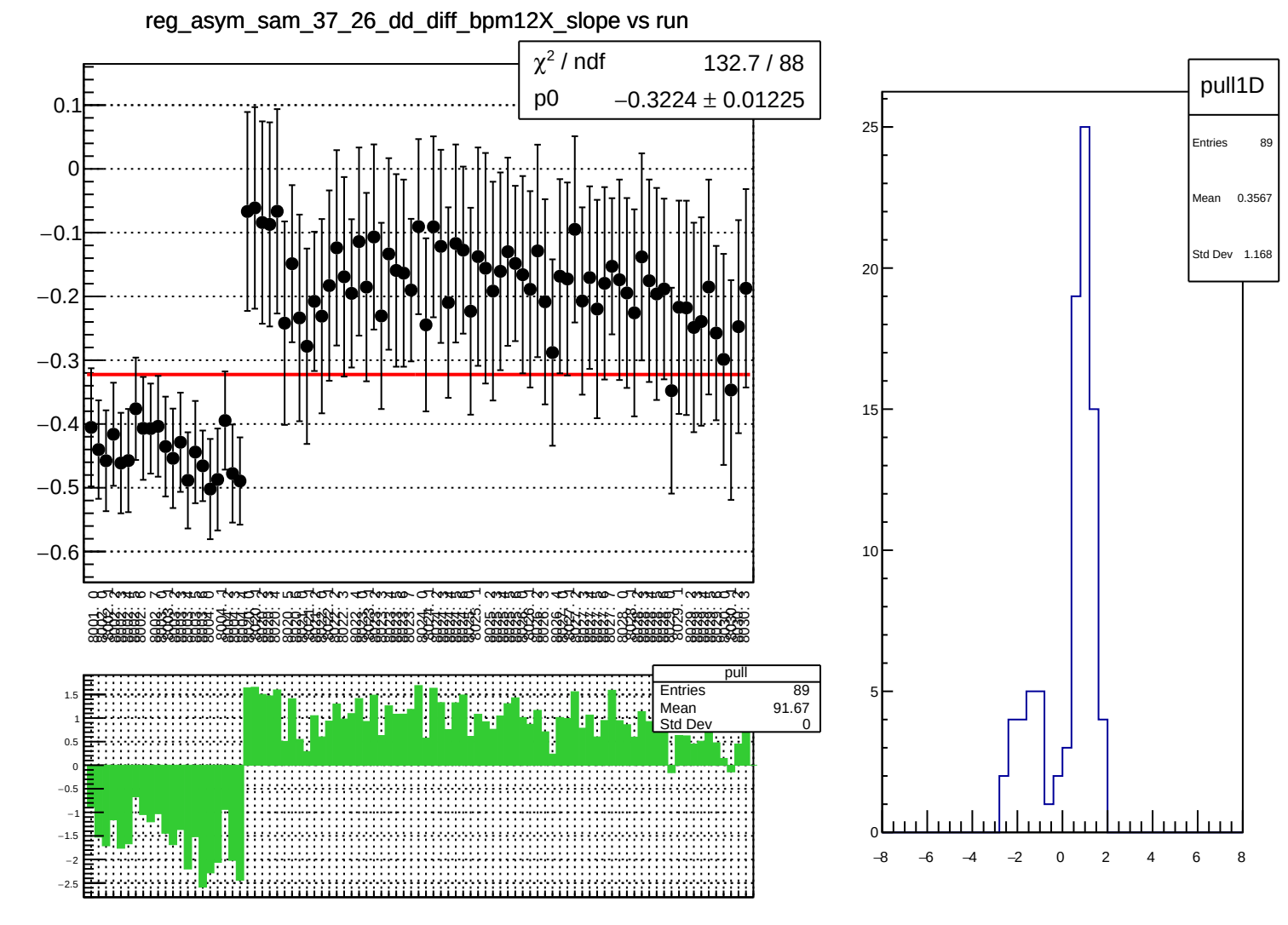

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 83.21 / 88
p0 16.98 ± 0.2546
pull
Entries 89
Mean 4.354e+04
Std Dev 0

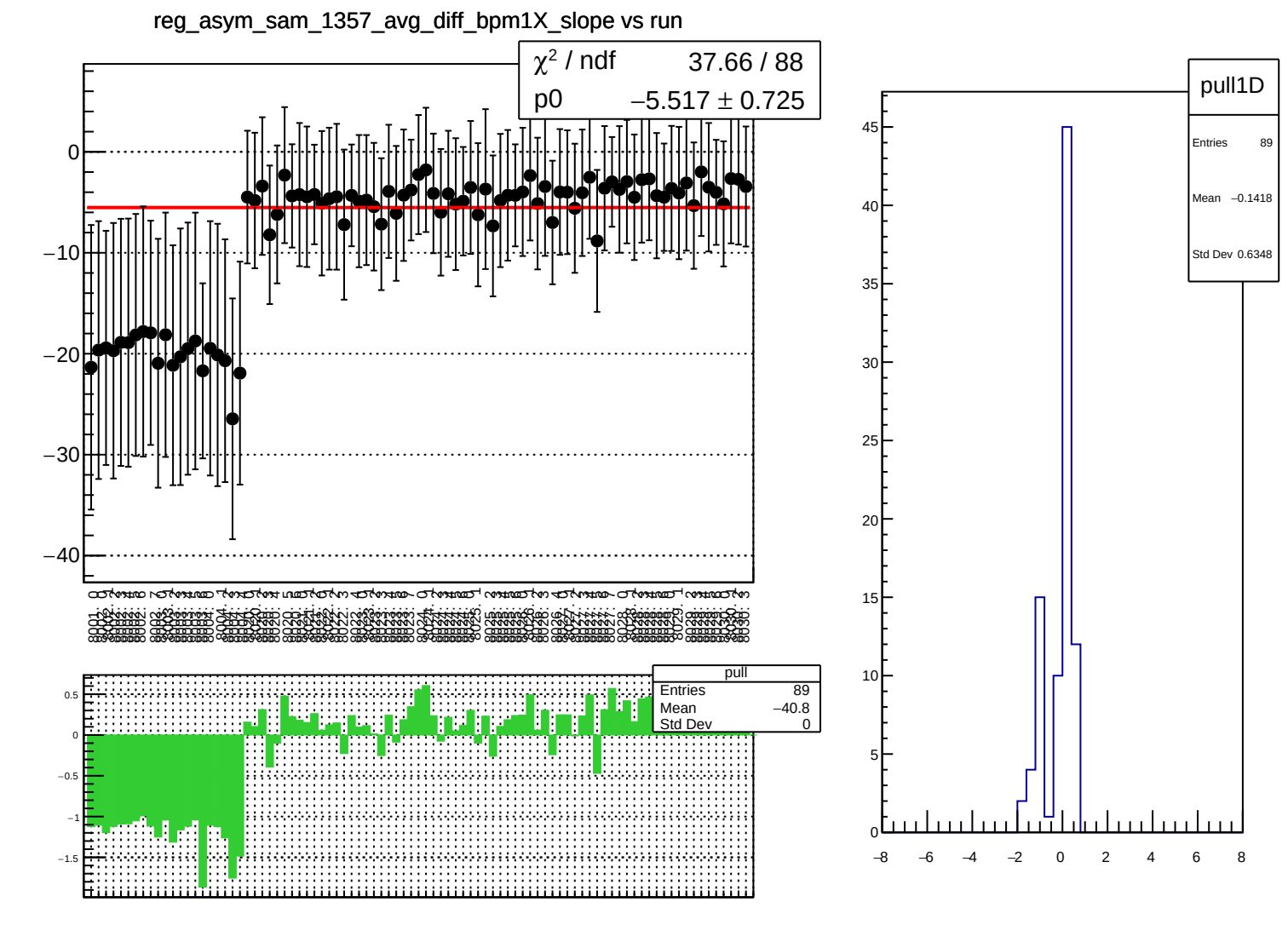

pull1D
Entries 89
Mean 0.0004403
Std Dev 0.9669

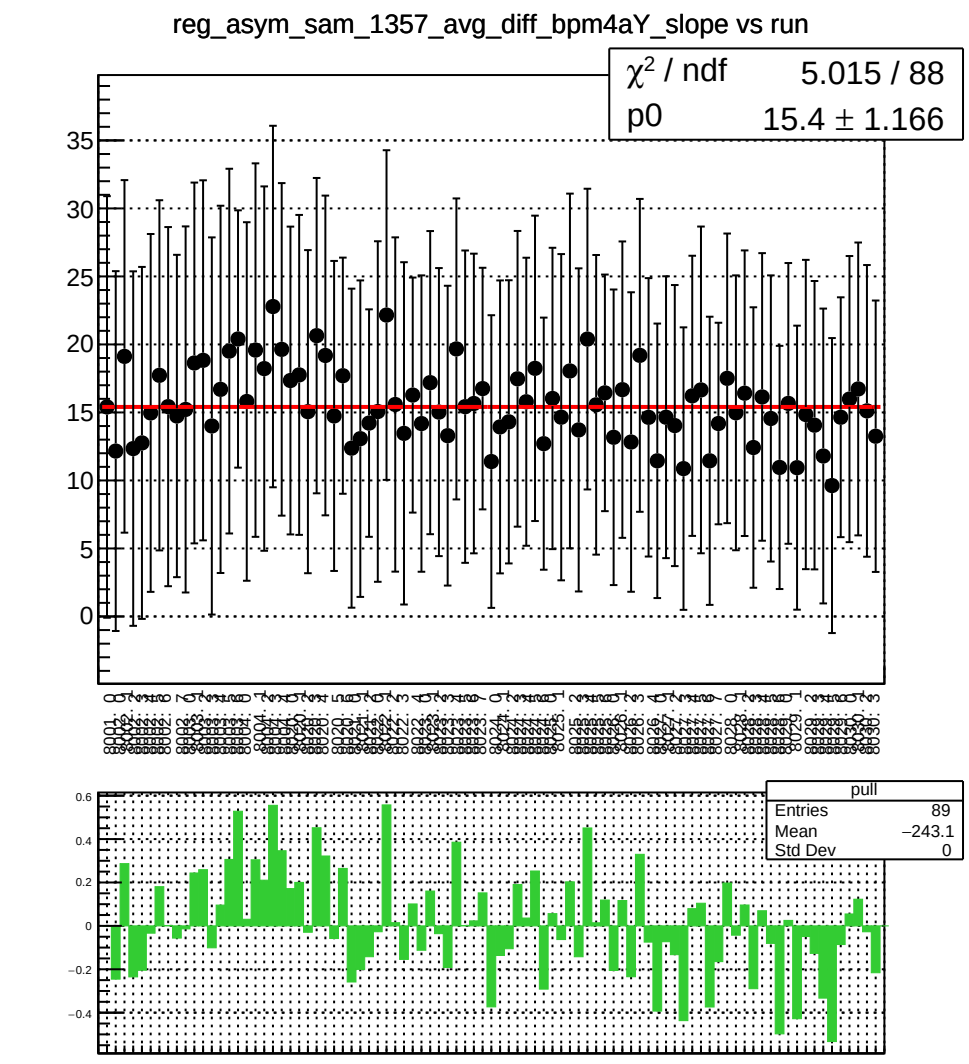

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 20.84 / 88
p0 −5.822 ± 0.1692
pull
Entries 89
Mean −282.5
Std Dev 0

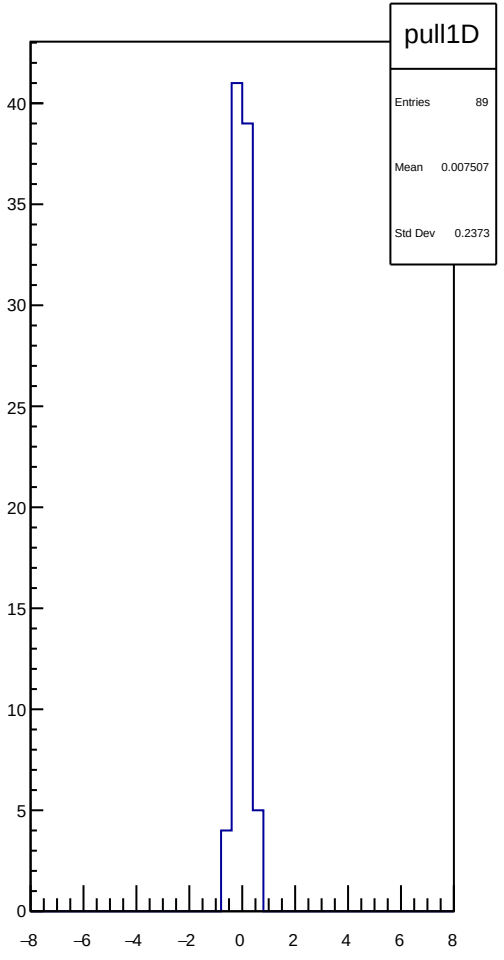

pull1D
Entries 89
Mean 0.02174
Std Dev 0.4834

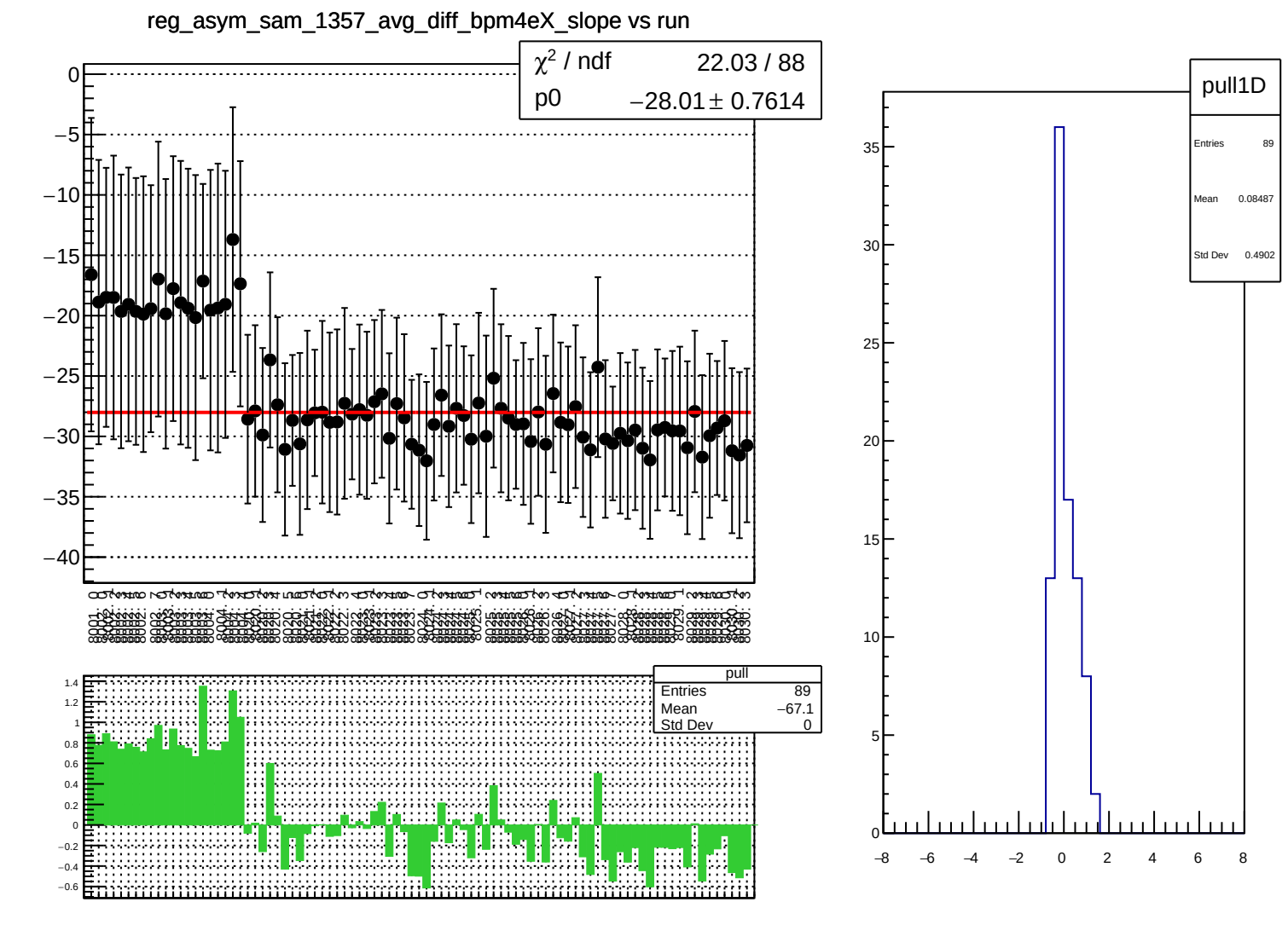

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 58.41 / 88
p0 −0.03707 ± 0.2738
pull
Entries 89
Mean −1492
Std Dev 0
pull1D
Entries 89
Mean 0.008372
Std Dev 0.8101

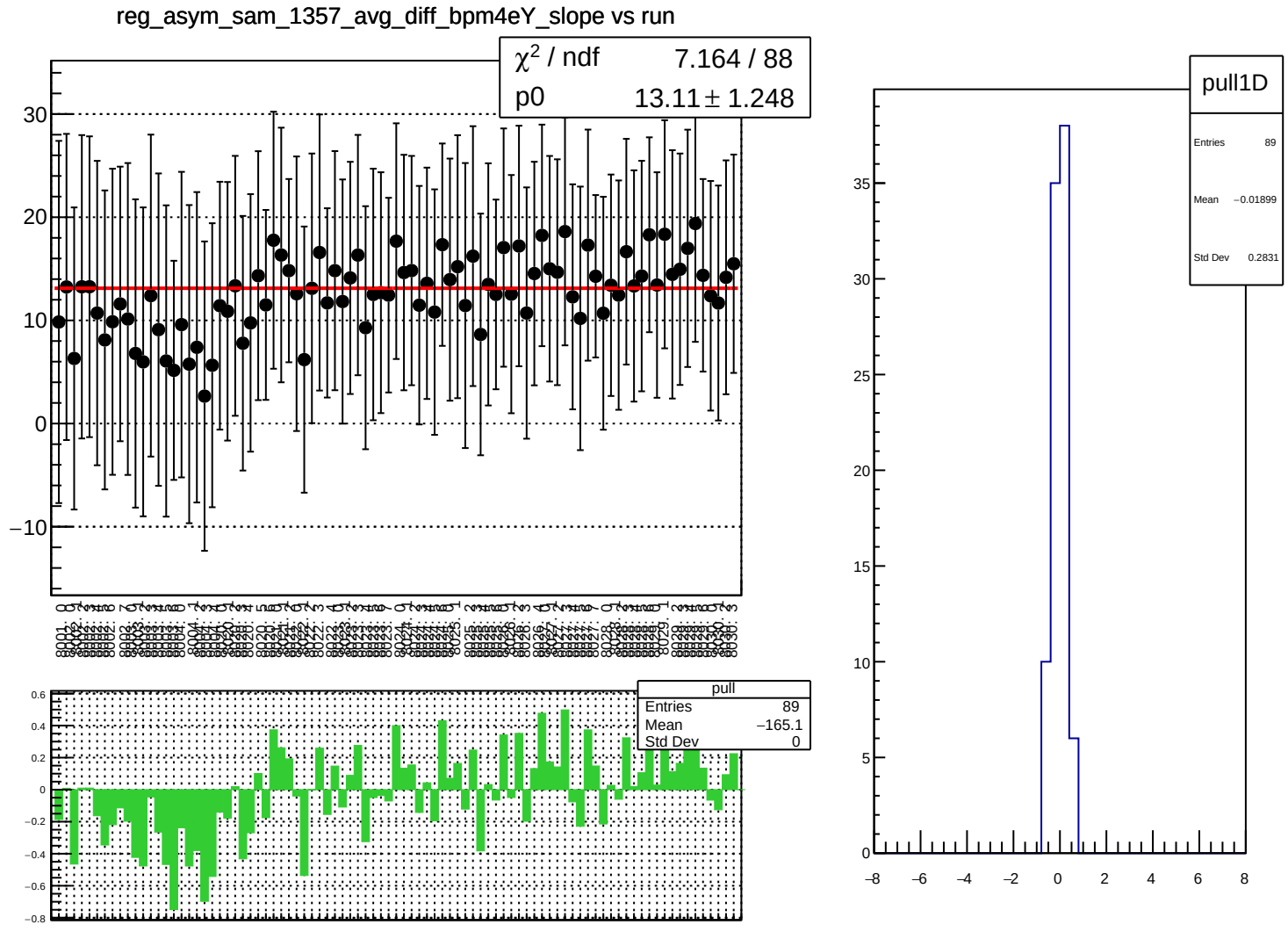

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 132.7 / 88
p0 −0.3224 ± 0.01225
pull
Entries 89
Mean 91.67
Std Dev 0
pull1D
Entries 89
Mean 0.3567
Std Dev 1.168

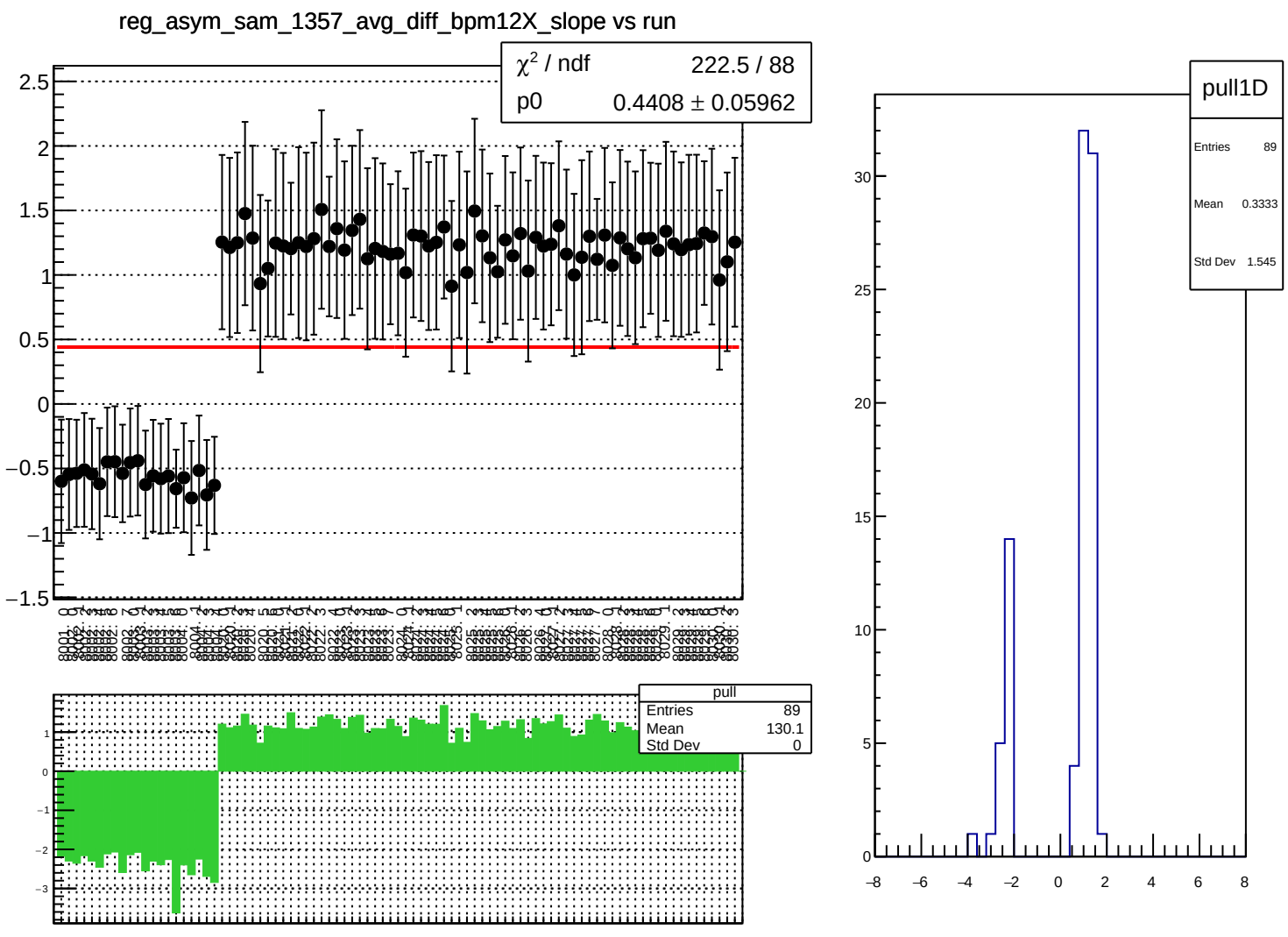

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 37.66 / 88
p0 −5.517 ± 0.725
0
−10
−20
−30
−40
pull
Entries 89
Mean −40.8
Std Dev 0
0.5
0
−0.5
−1
−1.5
pull1D
Entries 89
Mean −0.1418
Std Dev 0.6348
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

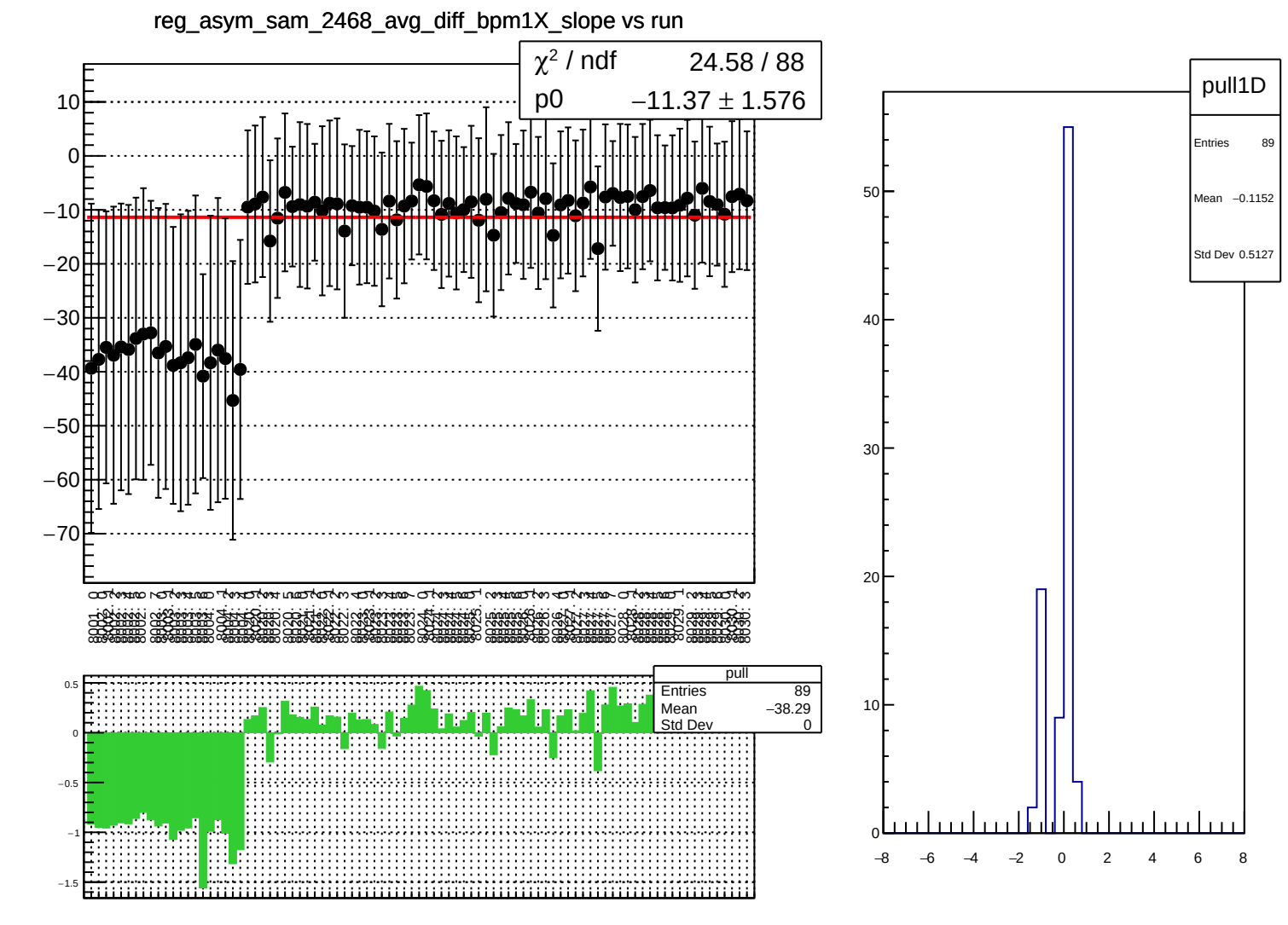

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.015 / 88
p0 15.4 ± 1.166
pull
Entries 89
Mean −243.1
Std Dev 0

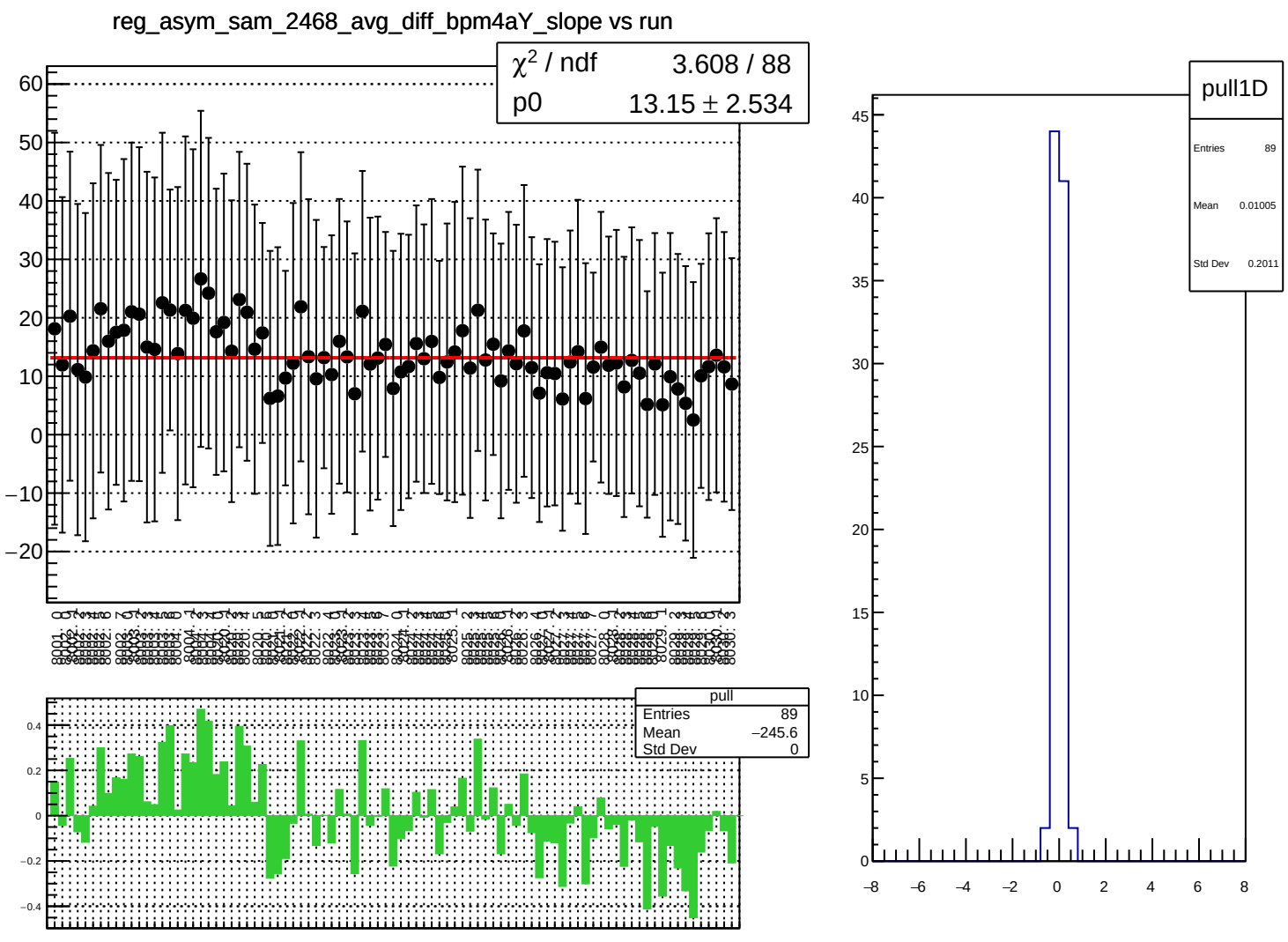

pull1D
Entries 89
Mean 0.007507
Std Dev 0.2373

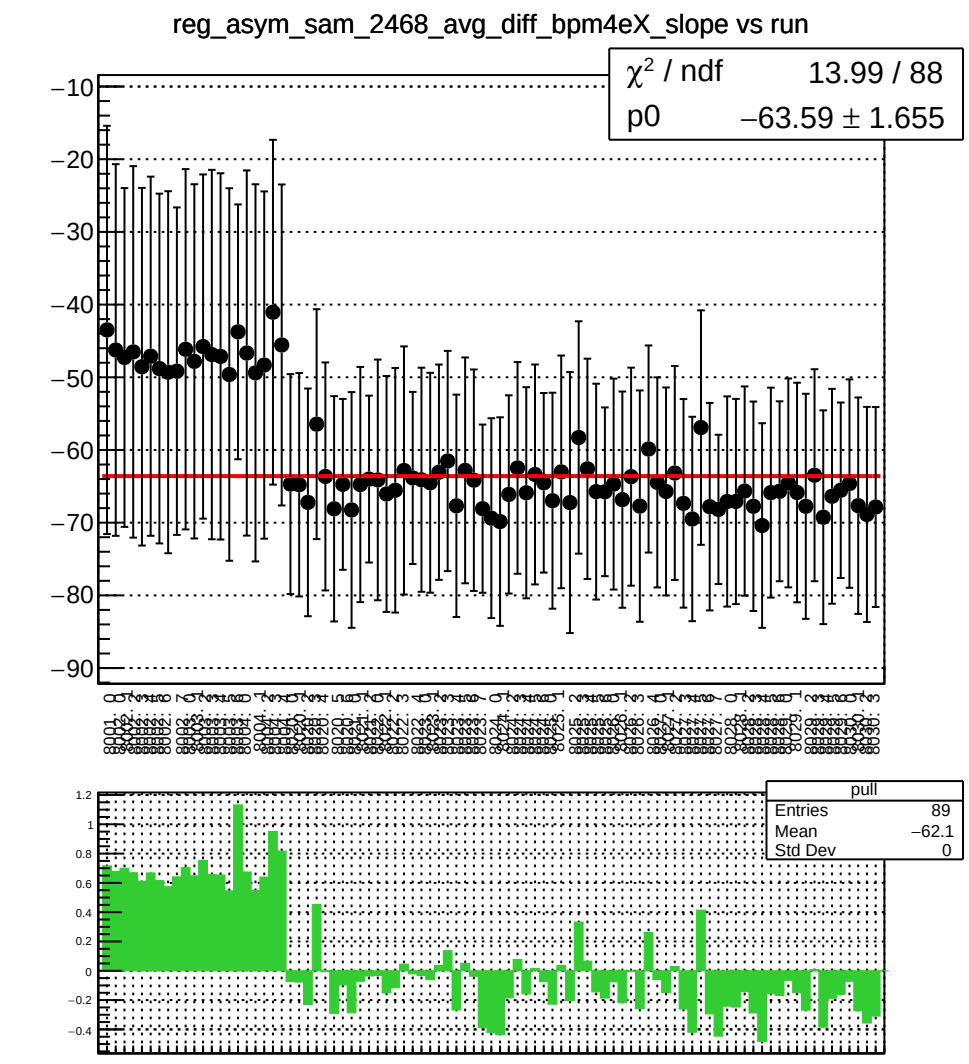

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 22.03 / 88
p0 −28.01 ± 0.7614
pull
Entries 89
Mean −67.1
Std Dev 0
pull1D
Entries 89
Mean 0.08487
Std Dev 0.4902

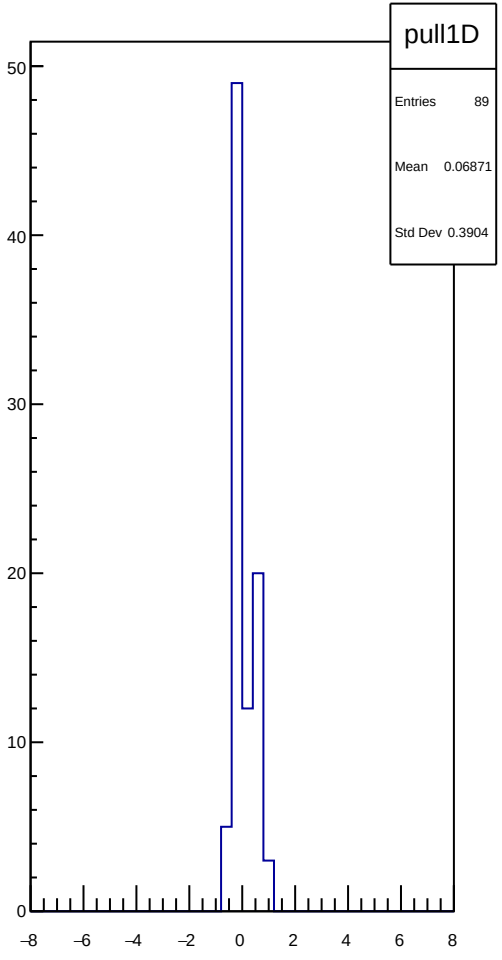

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.164 / 88
p0 13.11 ± 1.248
pull
Entries 89
Mean −165.1
Std Dev 0
pull1D
Entries 89
Mean −0.01899
Std Dev 0.2831

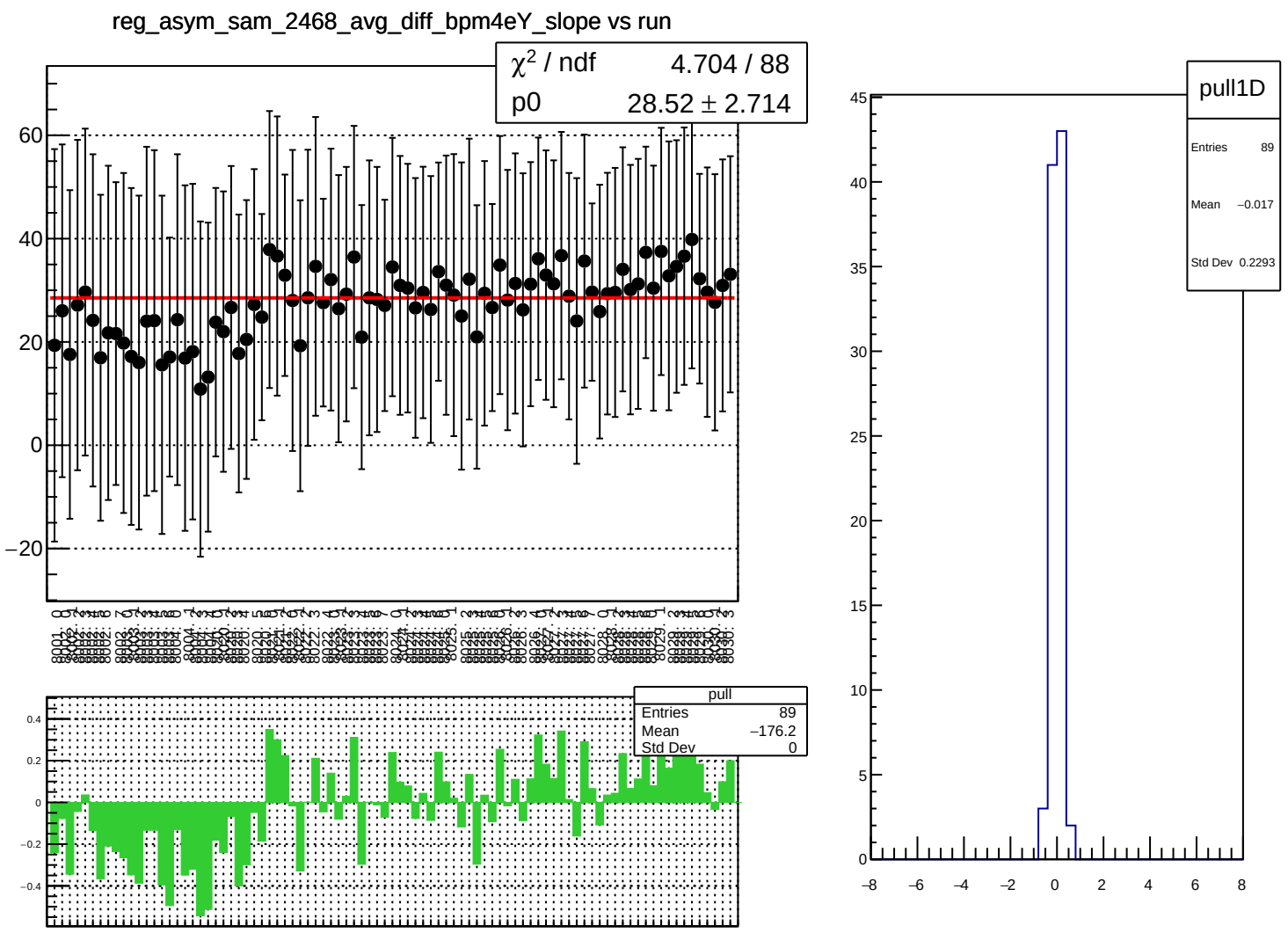

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 222.5 / 88
p0 0.4408 ± 0.05962
pull
Entries 89
Mean 130.1
Std Dev 0
pull1D
Entries 89
Mean 0.3333
Std Dev 1.545

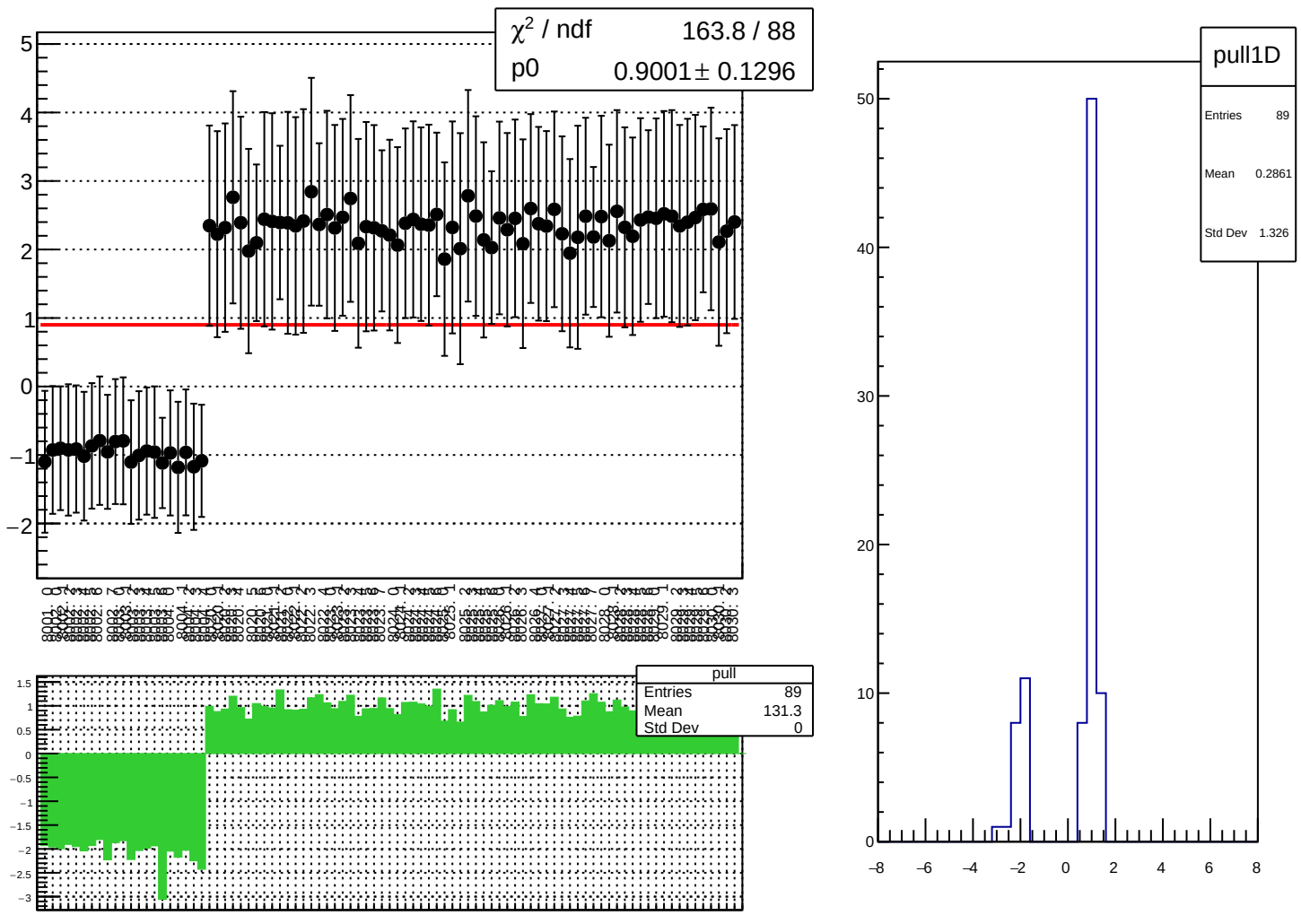

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 24.58 / 88
p0 −11.37 ± 1.576
pull
Entries 89
Mean −38.29
Std Dev 0
pull1D
Entries 89
Mean −0.1152
Std Dev 0.5127

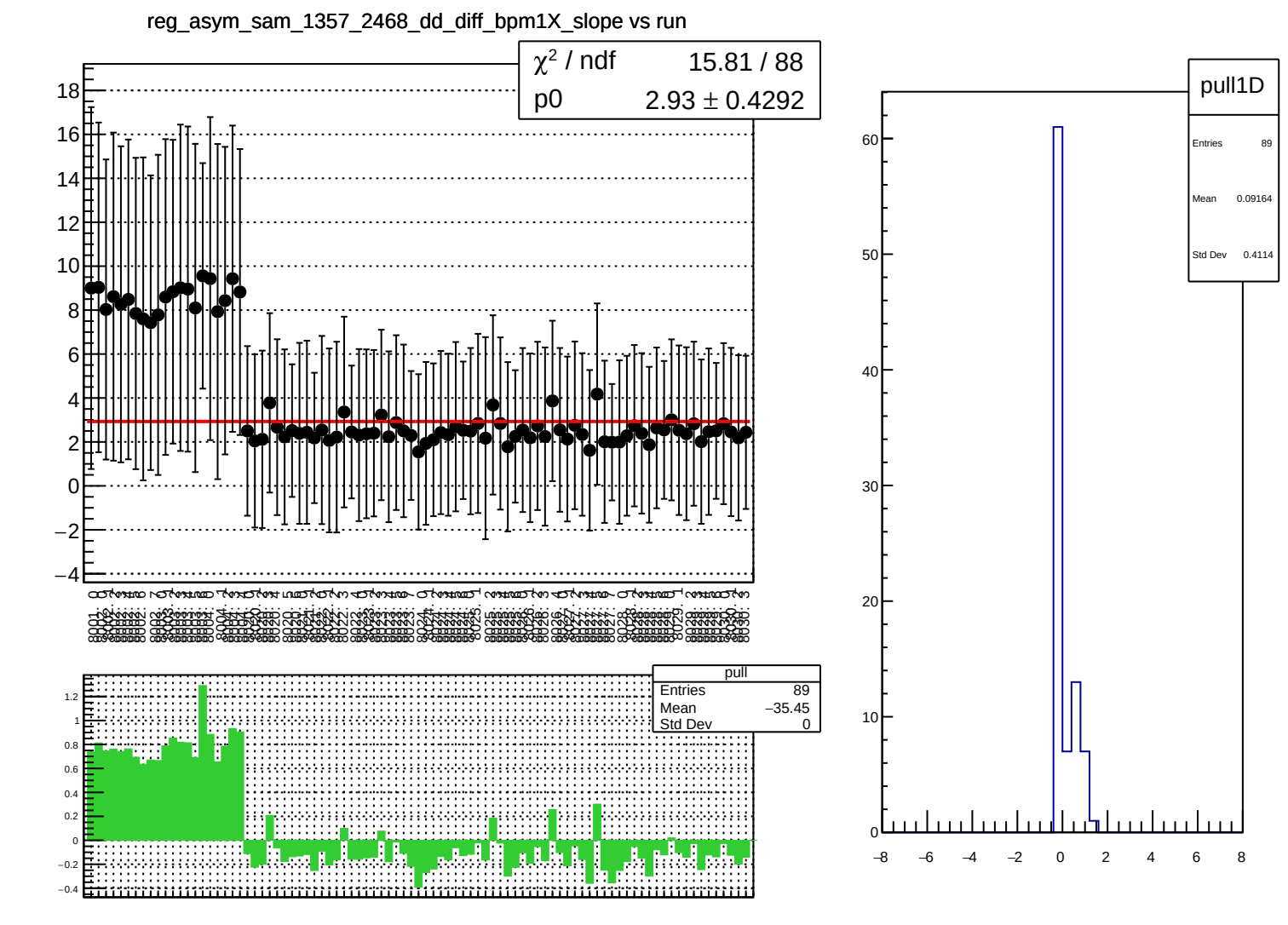

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.608 / 88
p0 13.15 ± 2.534
pull
Entries 89
Mean −245.6
Std Dev 0
pull1D
Entries 89
Mean 0.01005
Std Dev 0.2011

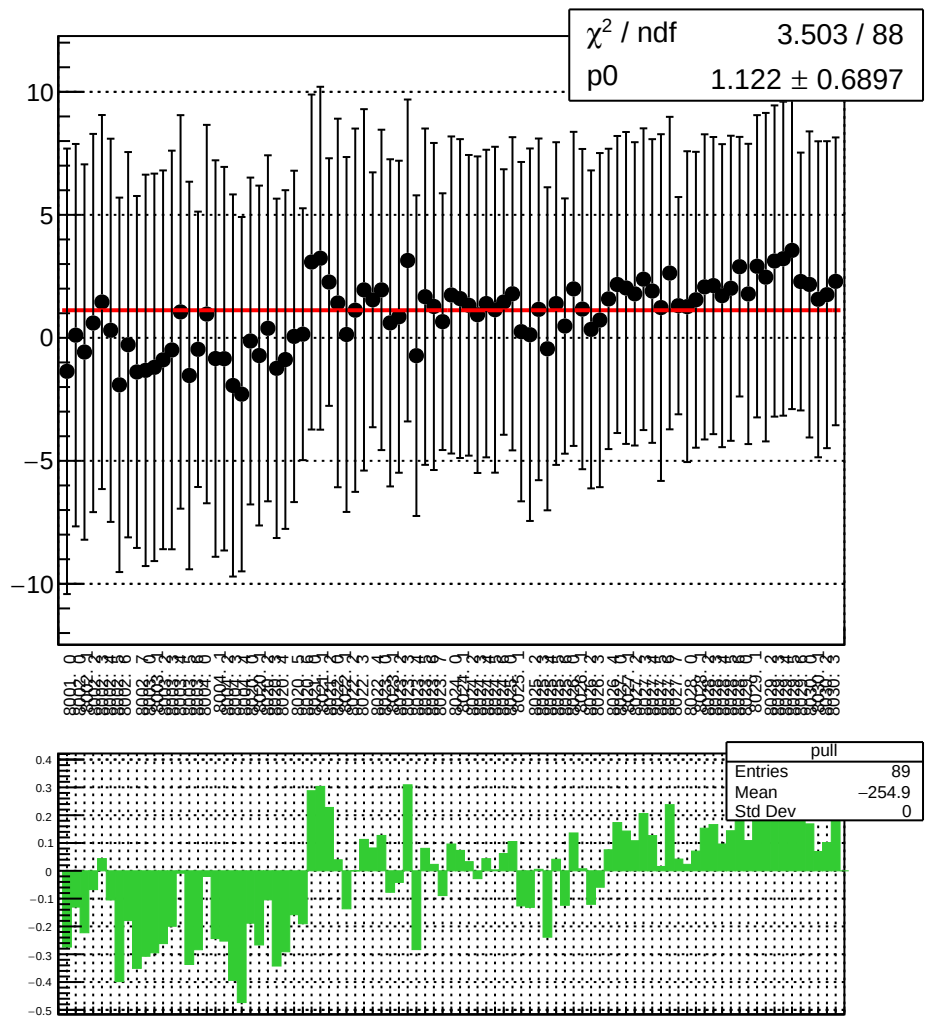

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 13.99 / 88
p0 −63.59 ± 1.655
pull
Entries 89
Mean −62.1
Std Dev 0

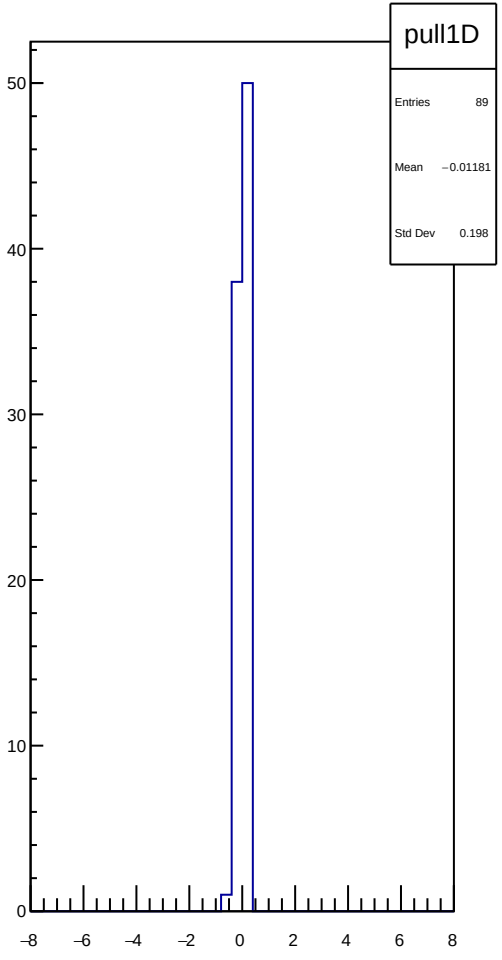

pull1D
Entries 89
Mean 0.06871
Std Dev 0.3904

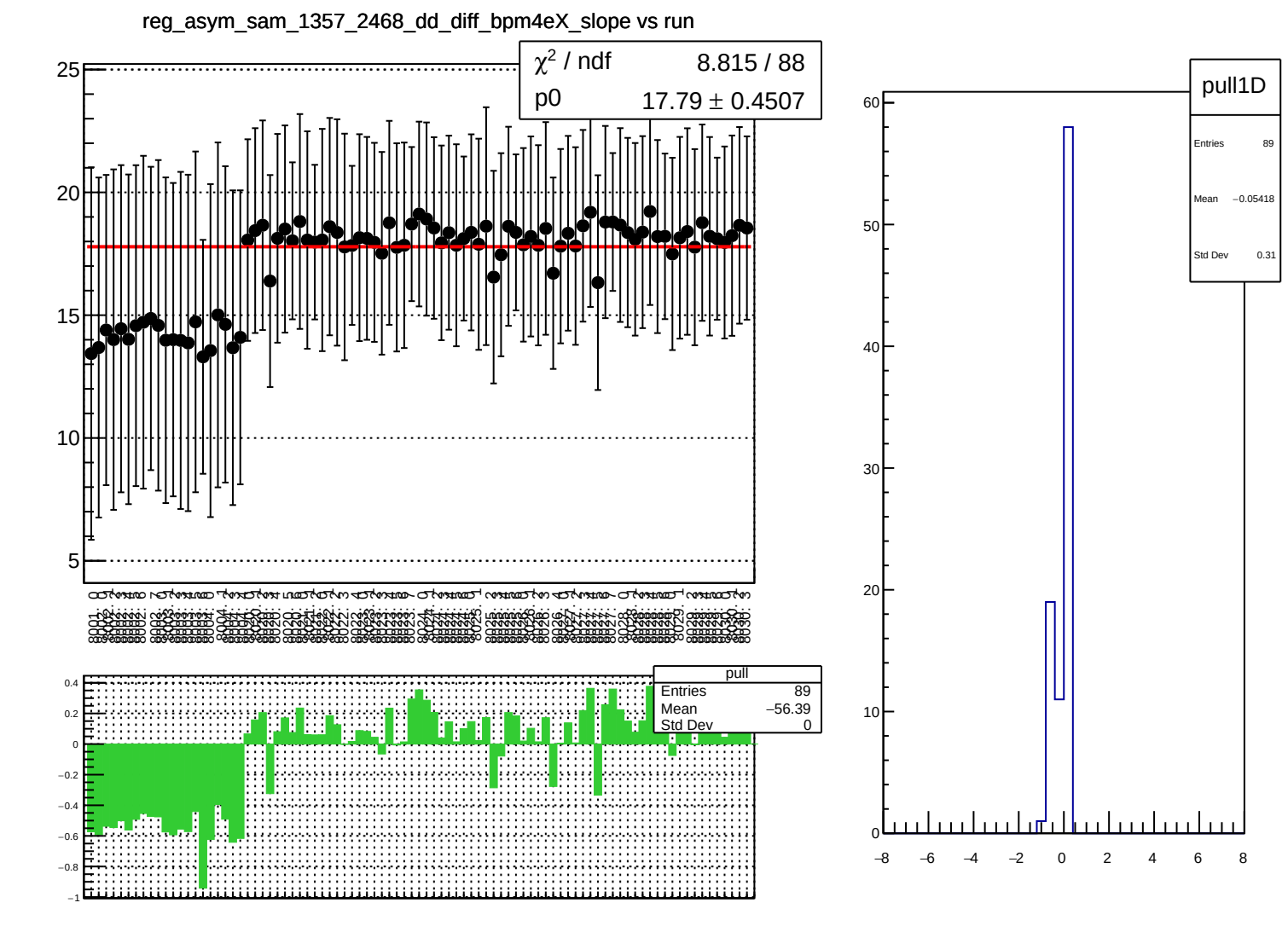

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.704 / 88
p0 28.52 ± 2.714
pull
Entries 89
Mean −176.2
Std Dev 0
pull1D
Entries 89
Mean −0.017
Std Dev 0.2293

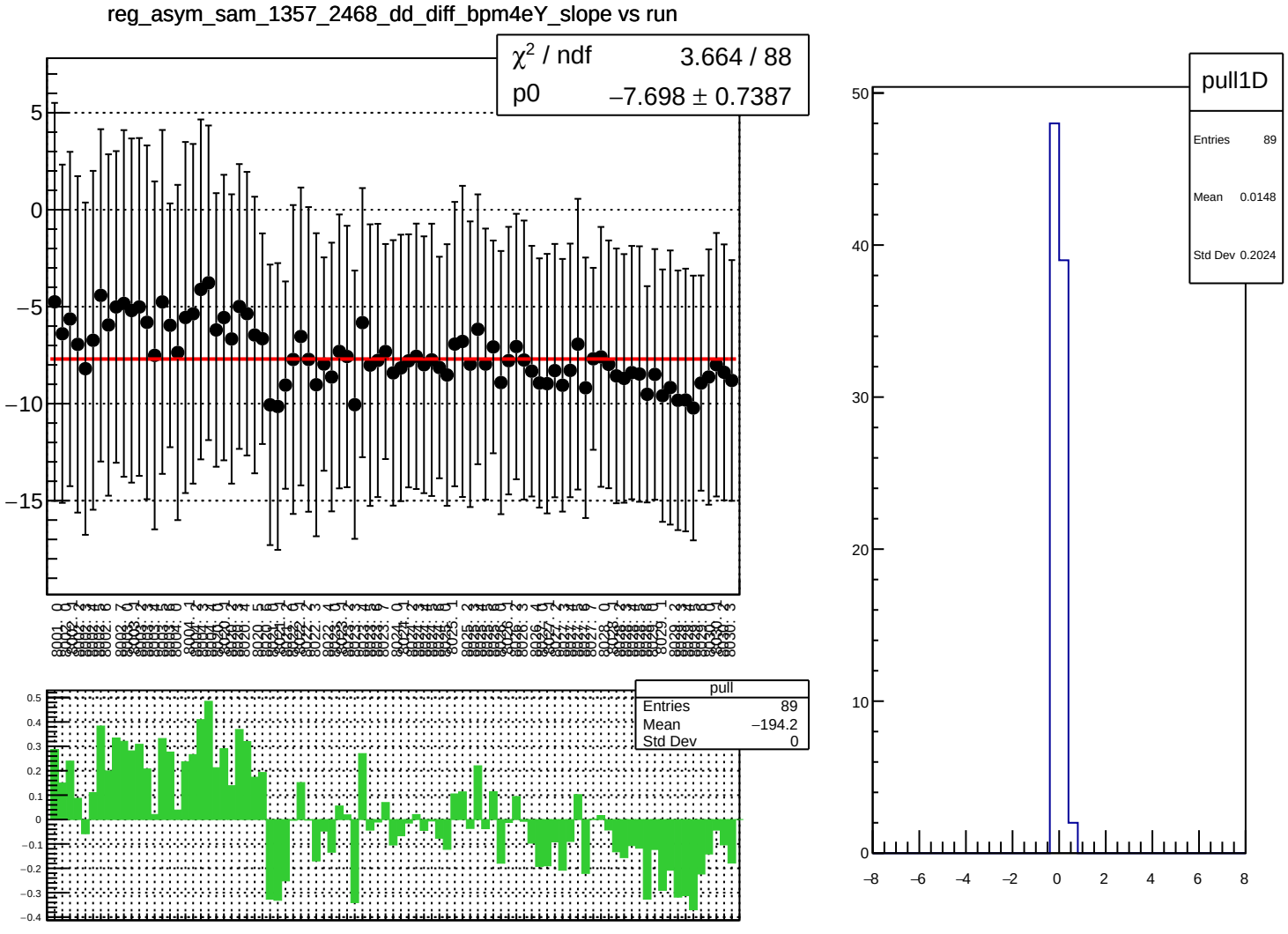

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 163.8 / 88
p0 0.9001 ± 0.1296
pull
Entries 89
Mean 131.3
Std Dev 0
pull1D
Entries 89
Mean 0.2861
Std Dev 1.326

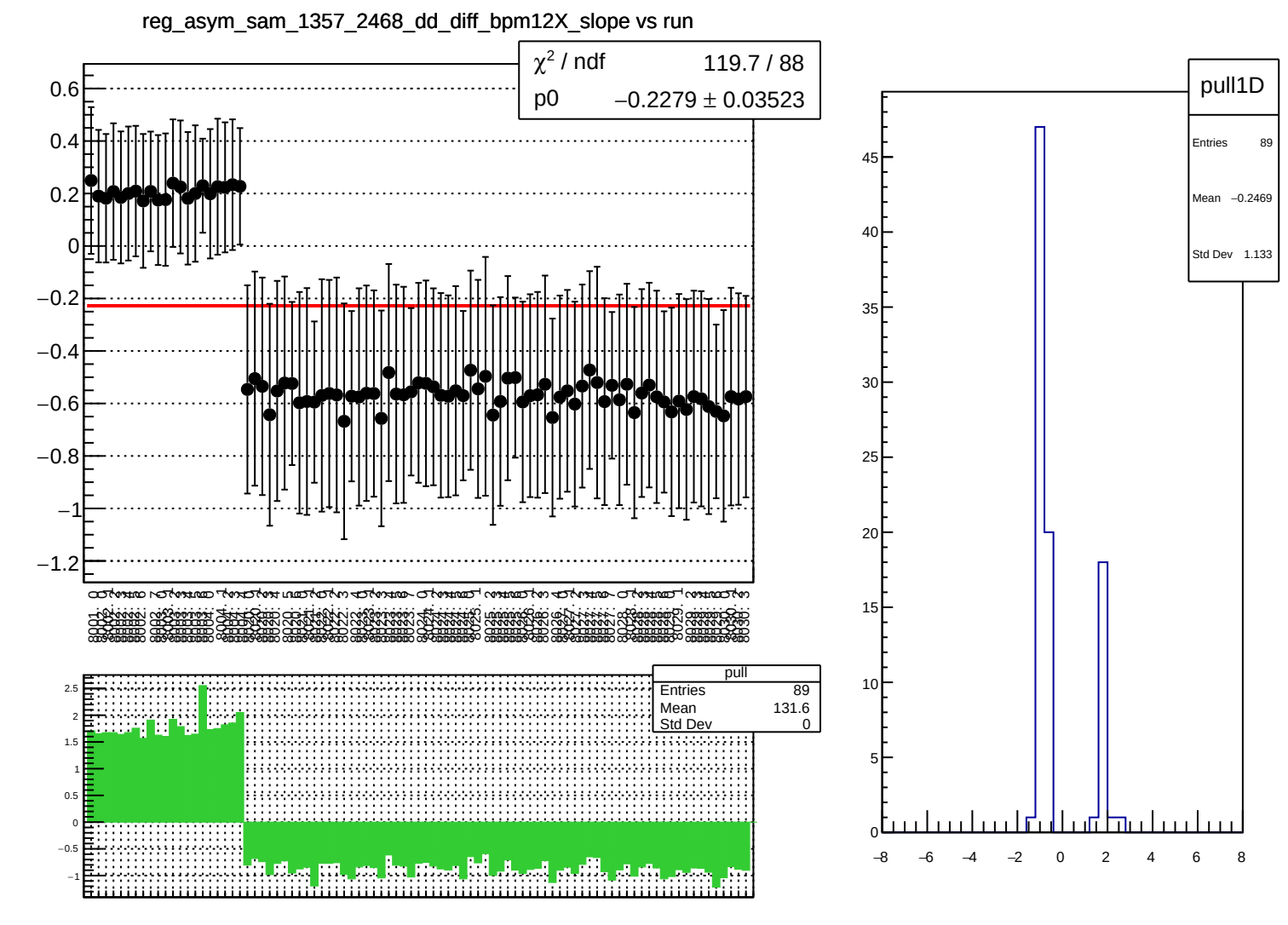

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 15.81 / 88
p0 2.93 ± 0.4292
pull
Entries 89
Mean −35.45
Std Dev 0
pull1D
Entries 89
Mean 0.09164
Std Dev 0.4114

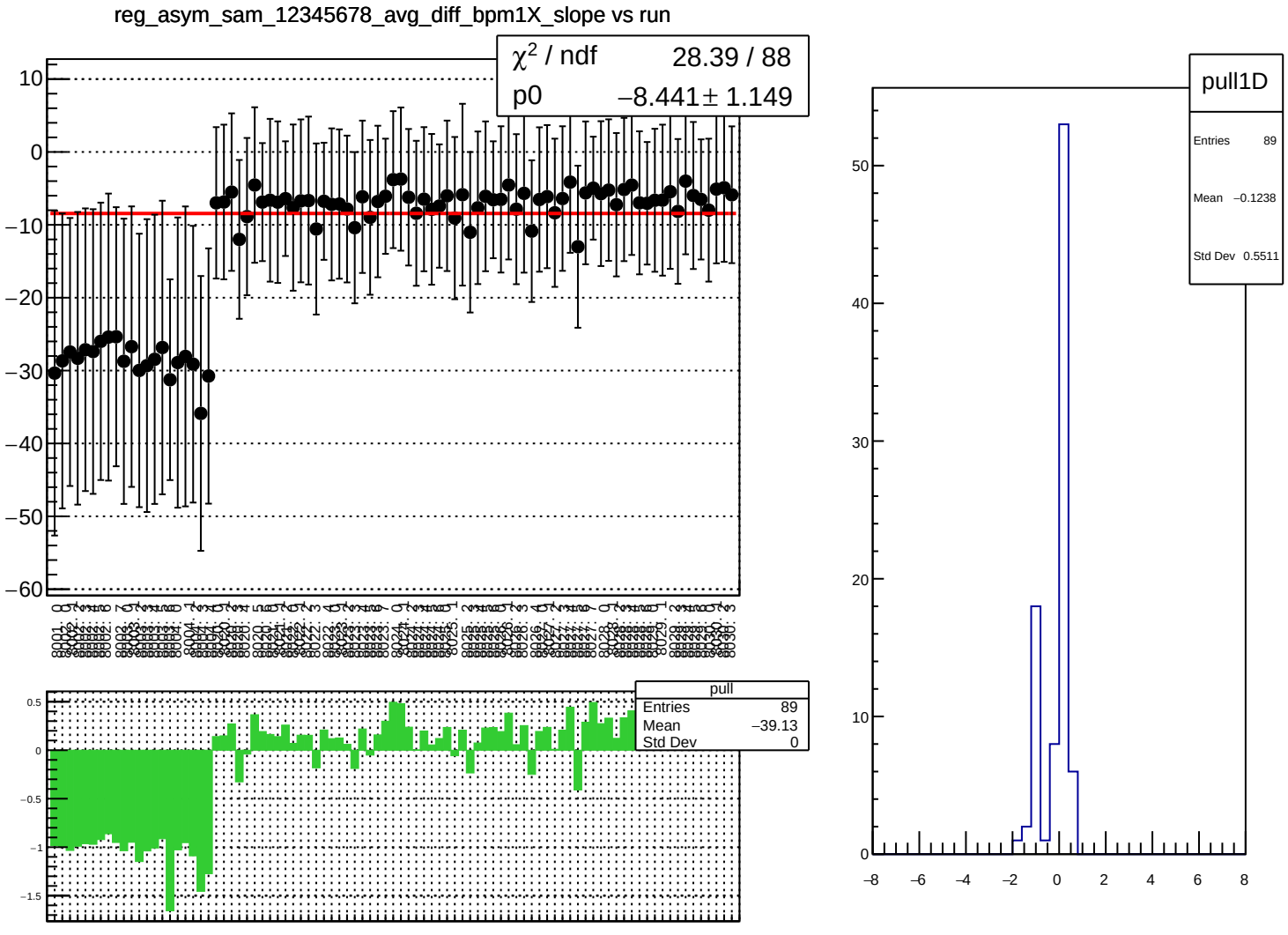

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.503 / 88
p0 1.122 ± 0.6897
pull
Entries 89
Mean −254.9
Std Dev 0

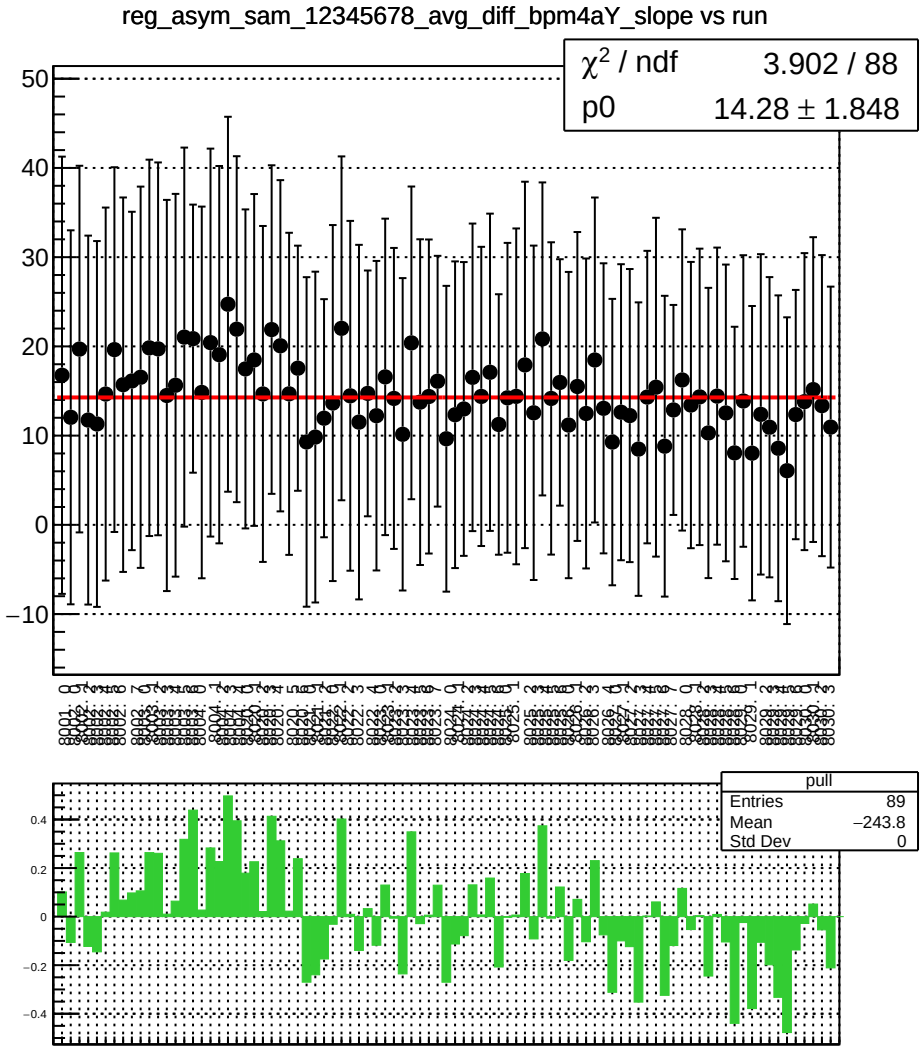

pull1D
Entries 89
Mean −0.01181
Std Dev 0.198

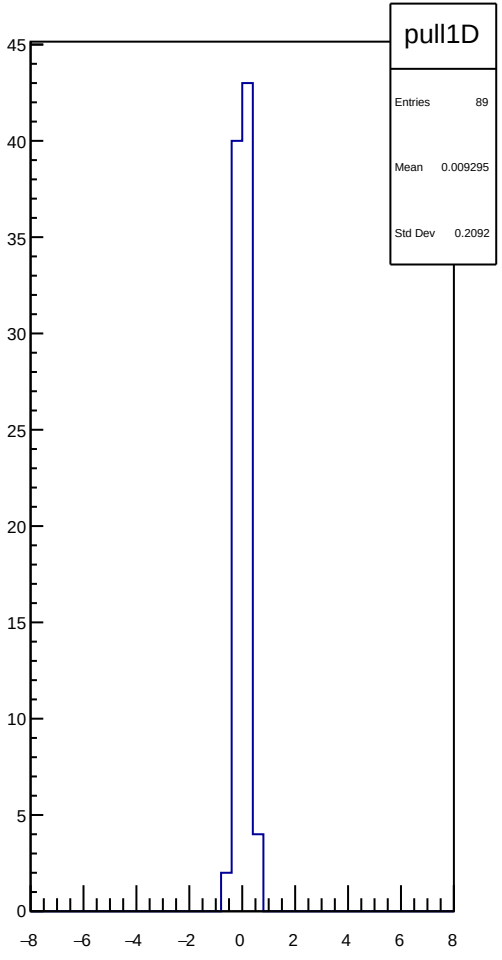

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.815 / 88
p0 17.79 ± 0.4507
pull
Entries 89
Mean −56.39
Std Dev 0
pull1D
Entries 89
Mean −0.05418
Std Dev 0.31

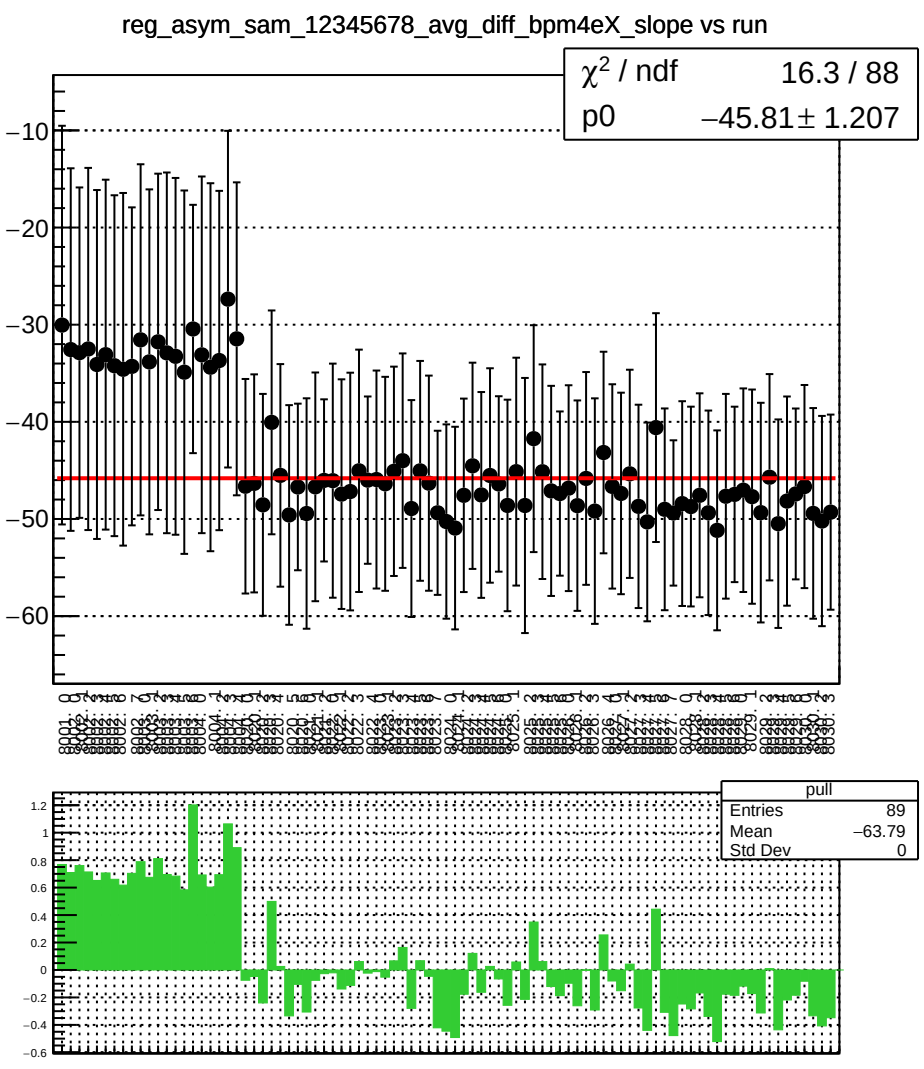

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.664 / 88
p0 −7.698 ± 0.7387
pull
Entries 89
Mean −194.2
Std Dev 0
pull1D
Entries 89
Mean 0.0148
Std Dev 0.2024

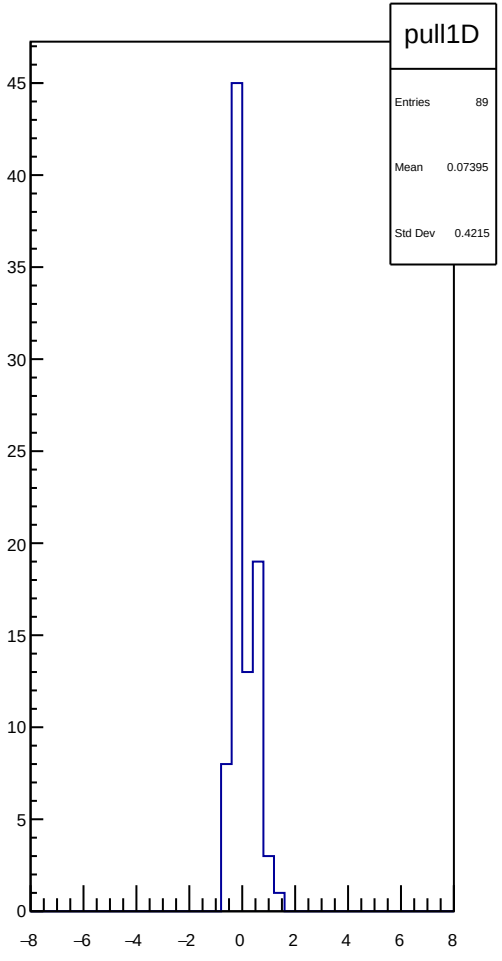

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 119.7 / 88
p0 −0.2279 ± 0.03523
pull
Entries 89
Mean 131.6
Std Dev 0
pull1D
Entries 89
Mean −0.2469
Std Dev 1.133

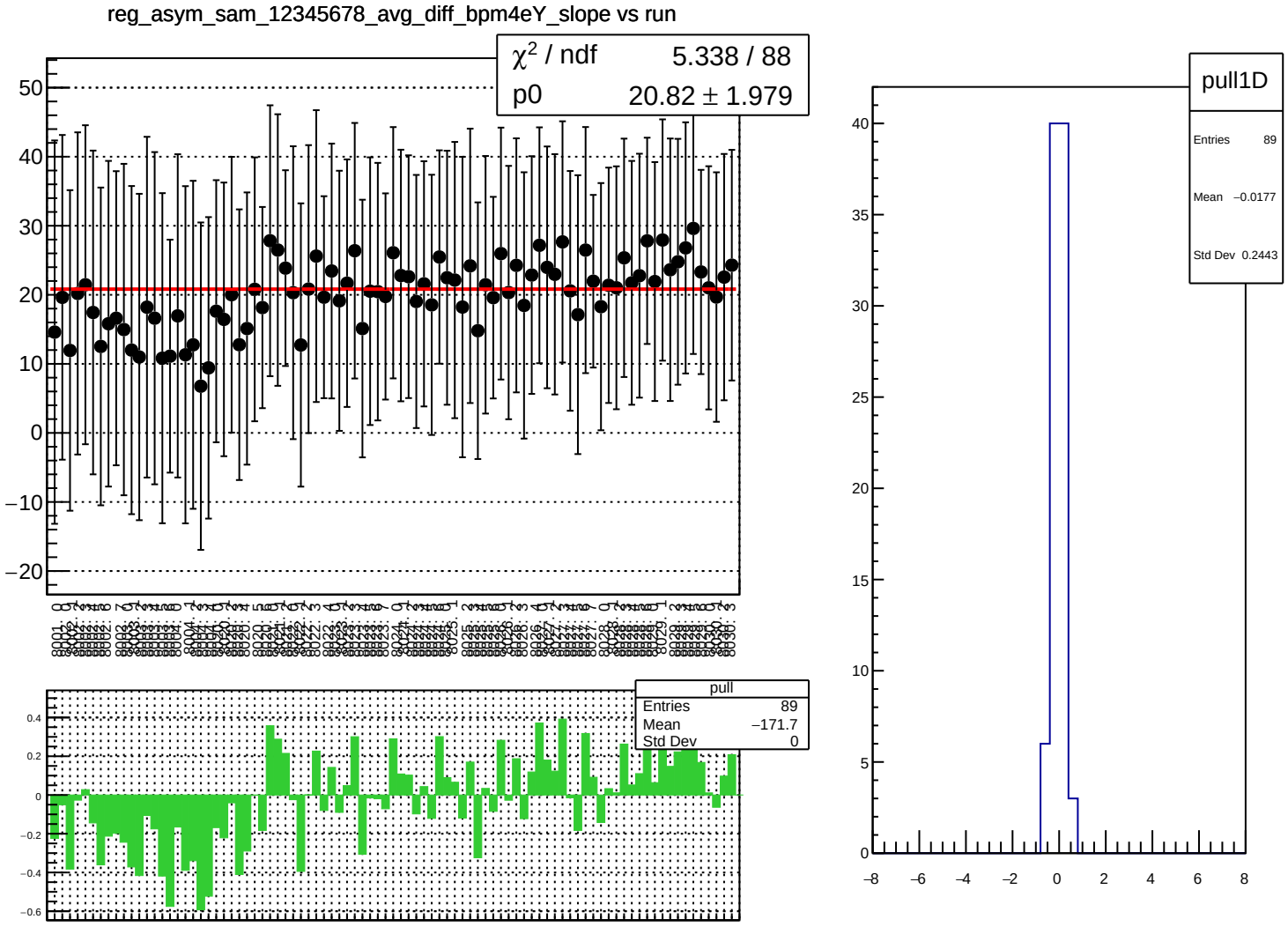

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 28.39 / 88
p0 −8.441 ± 1.149
pull
Entries 89
Mean −39.13
Std Dev 0
pull1D
Entries 89
Mean −0.1238
Std Dev 0.5511

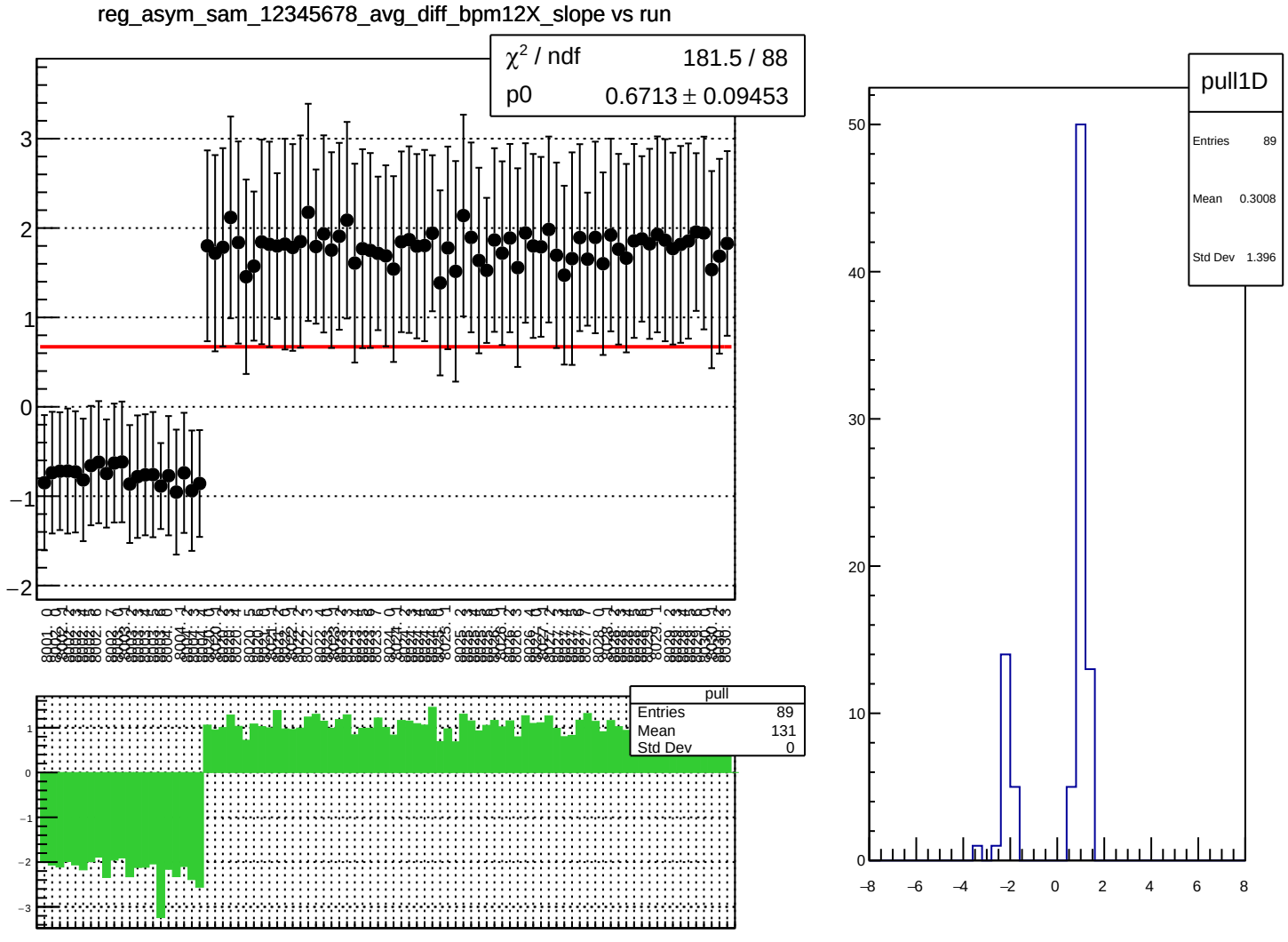

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.902 / 88
p0 14.28 ± 1.848
pull
Entries 89
Mean −243.8
Std Dev 0

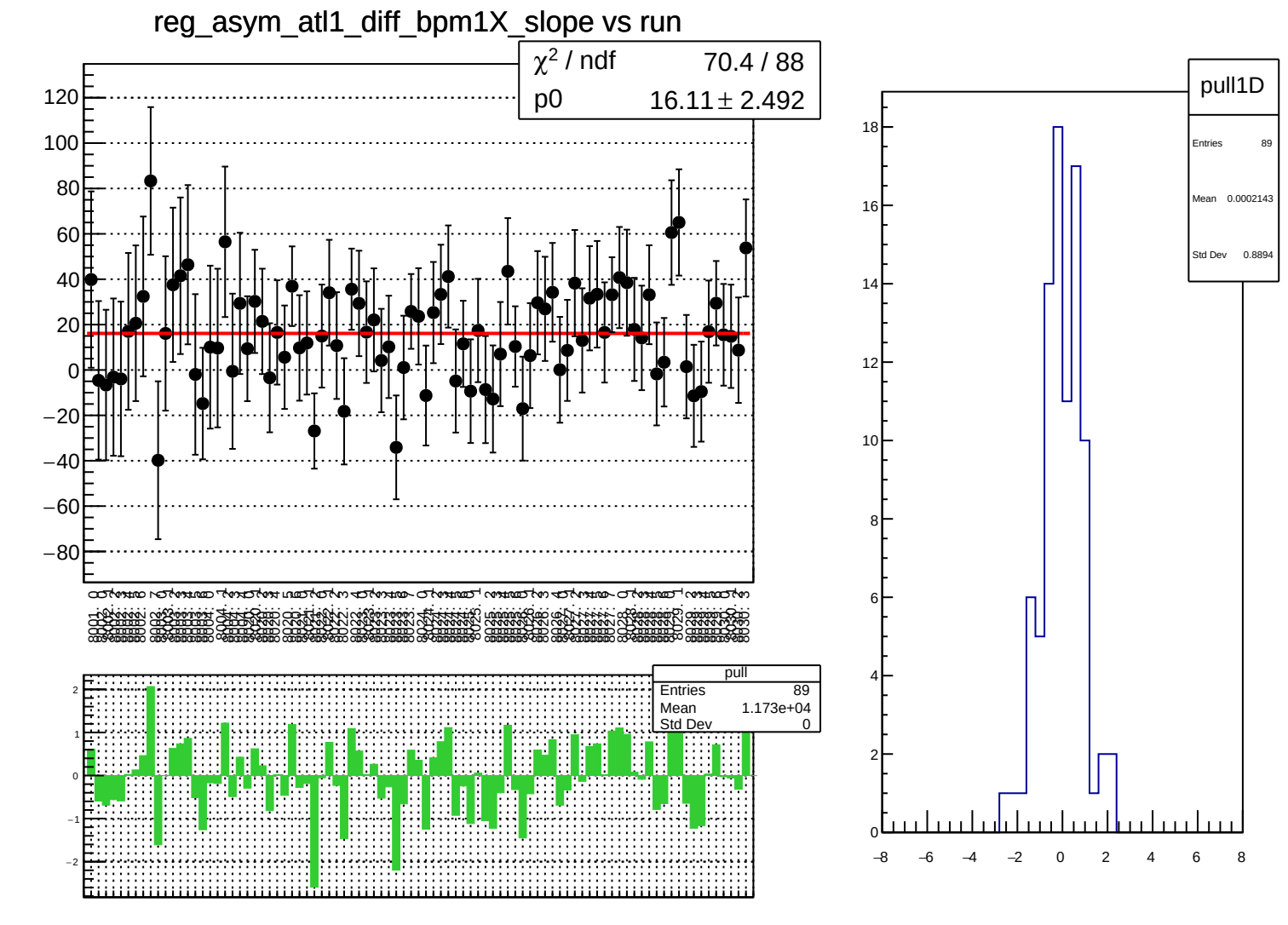

pull1D
Entries 89
Mean 0.009295
Std Dev 0.2092

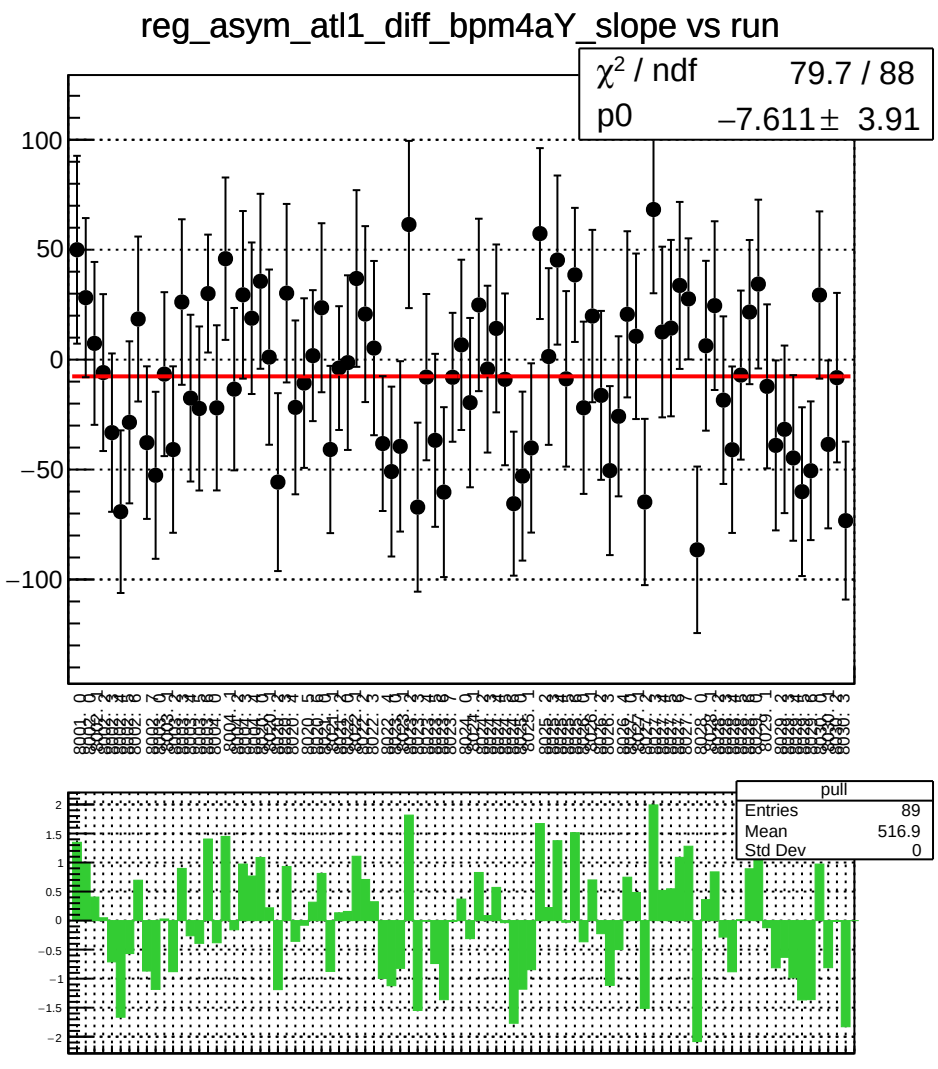

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 16.3 / 88
p0 −45.81 ± 1.207
pull
Entries 89
Mean −63.79
Std Dev 0

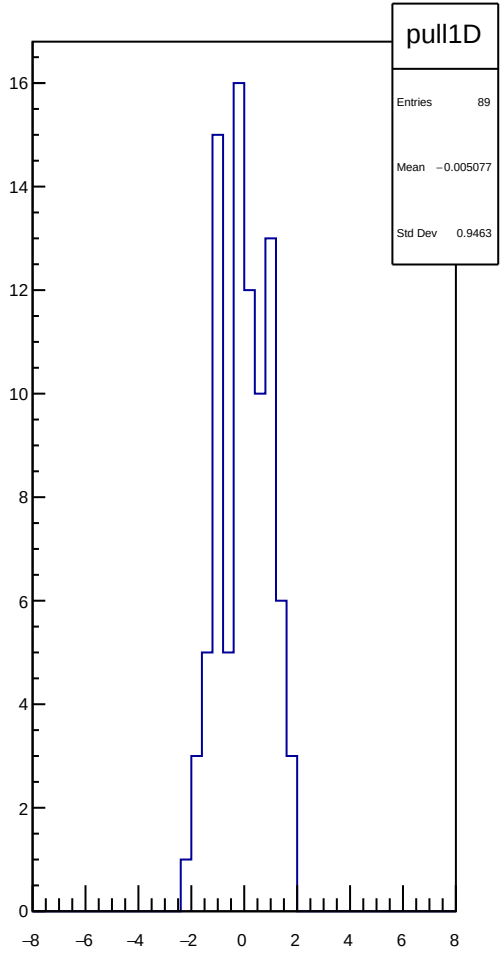

pull1D
Entries 89
Mean 0.07395
Std Dev 0.4215

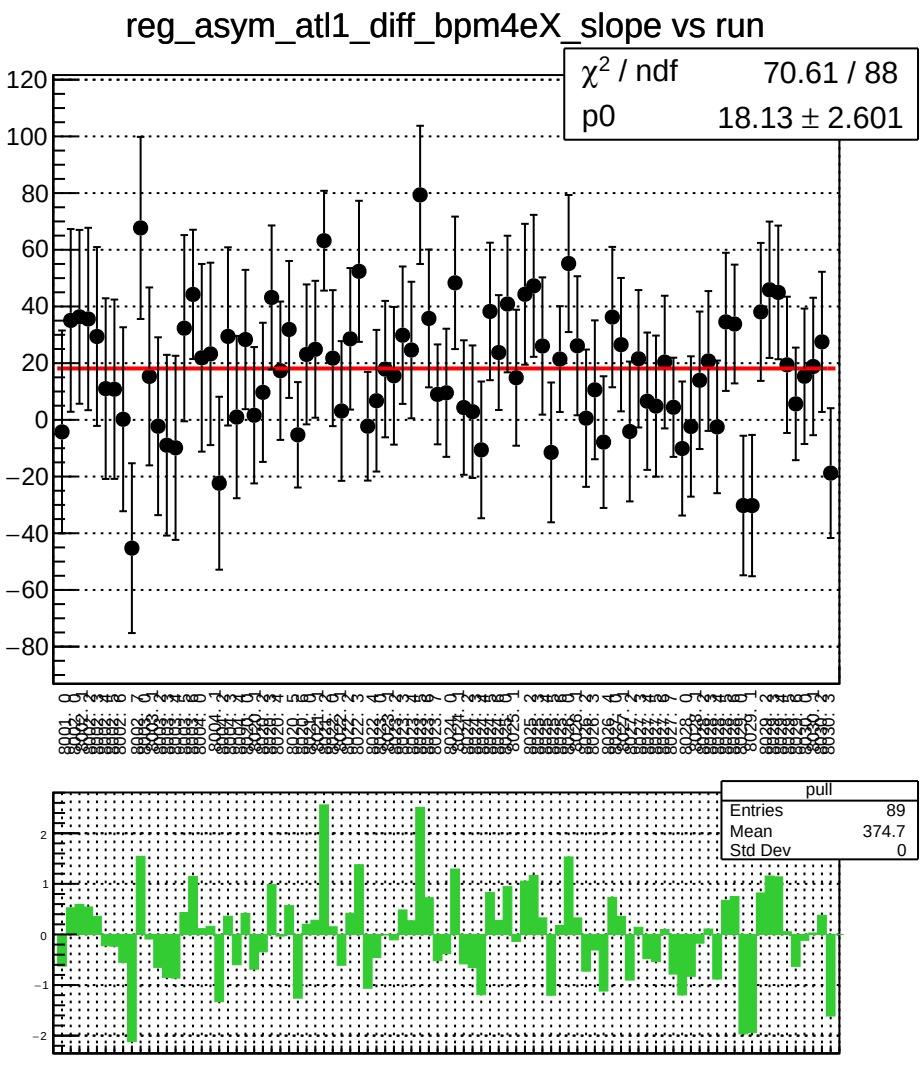

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.338 / 88
p0 20.82 ± 1.979
pull
Entries 89
Mean −171.7
Std Dev 0
pull1D
Entries 89
Mean −0.0177
Std Dev 0.2443

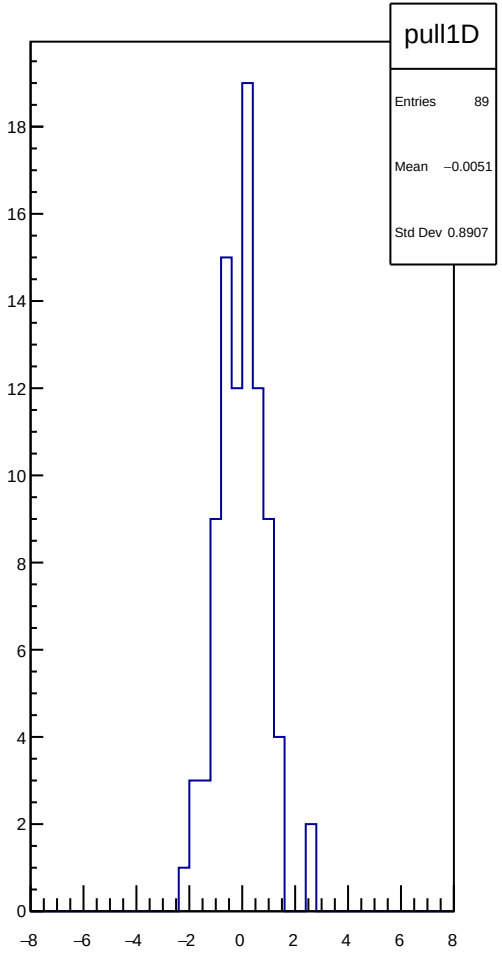

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 181.5 / 88
p0 0.6713 ± 0.09453
pull
Entries 89
Mean 131
Std Dev 0
pull1D
Entries 89
Mean 0.3008
Std Dev 1.396

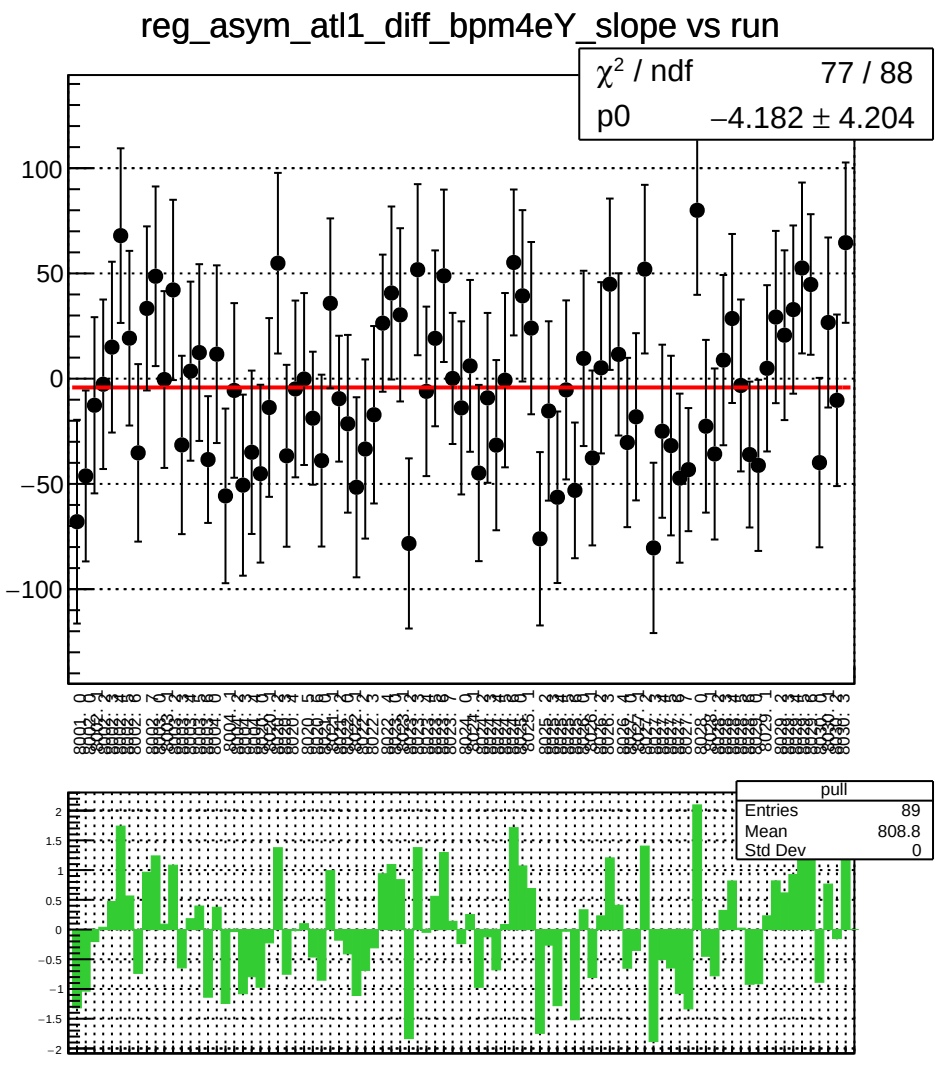

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 70.4 / 88
p0 16.11 ± 2.492
pull
Entries 89
Mean 1.173e+04
Std Dev 0
pull1D
Entries 89
Mean 0.0002143
Std Dev 0.8894

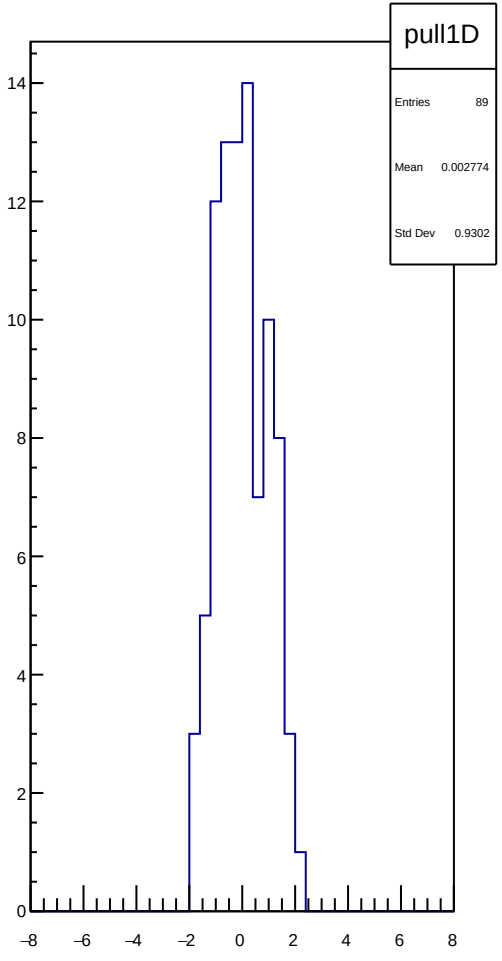

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 79.7 / 88
p0 −7.611 ± 3.91
100
50
0
−50
−100
pull
Entries 89
Mean 516.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

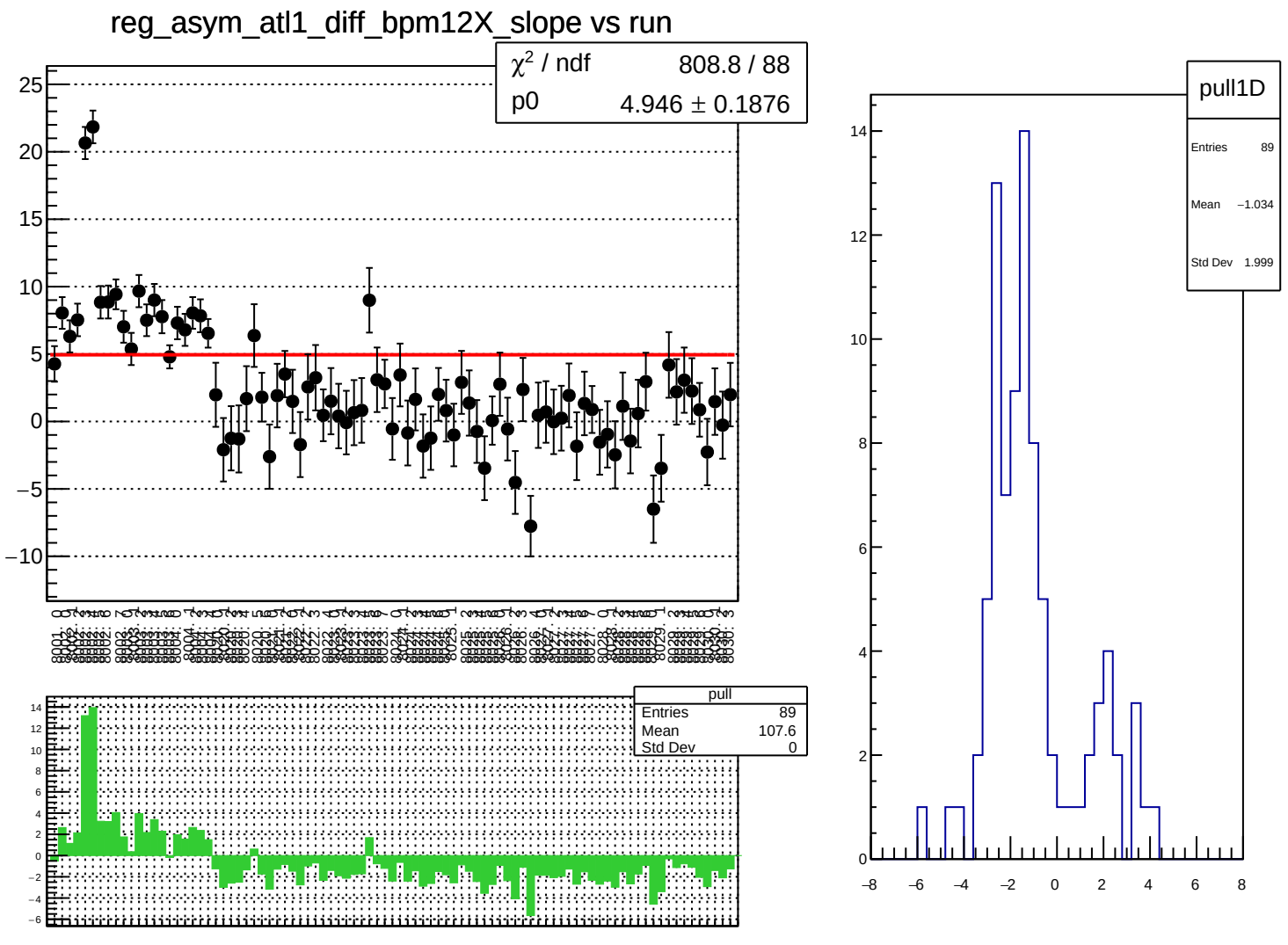

pull1D
Entries 89
Mean −0.005077
Std Dev 0.9463
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

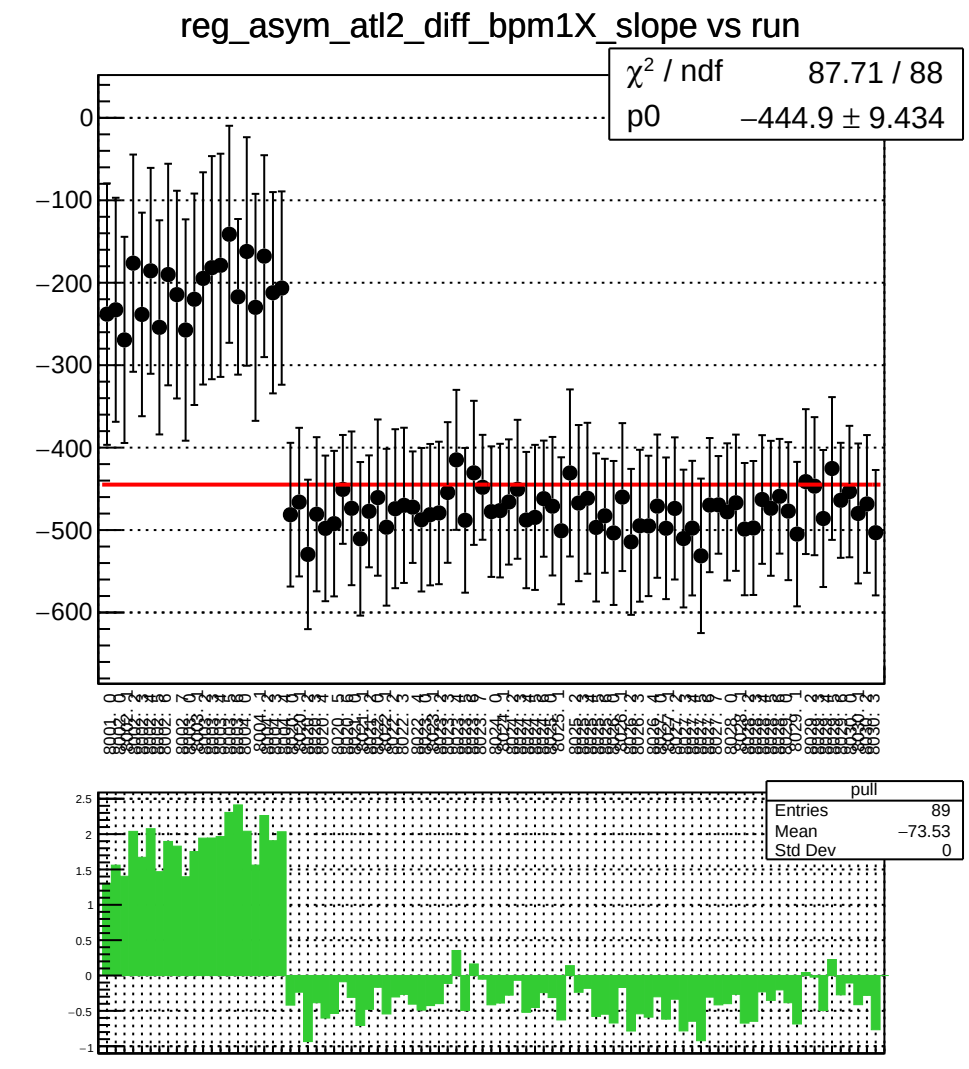

reg_asym_atl1_diff_bpm4eX_slope vs run
χ^2 / ndf 70.61 / 88
p0 18.13 ± 2.601
pull
Entries 89
Mean 374.7
Std Dev 0

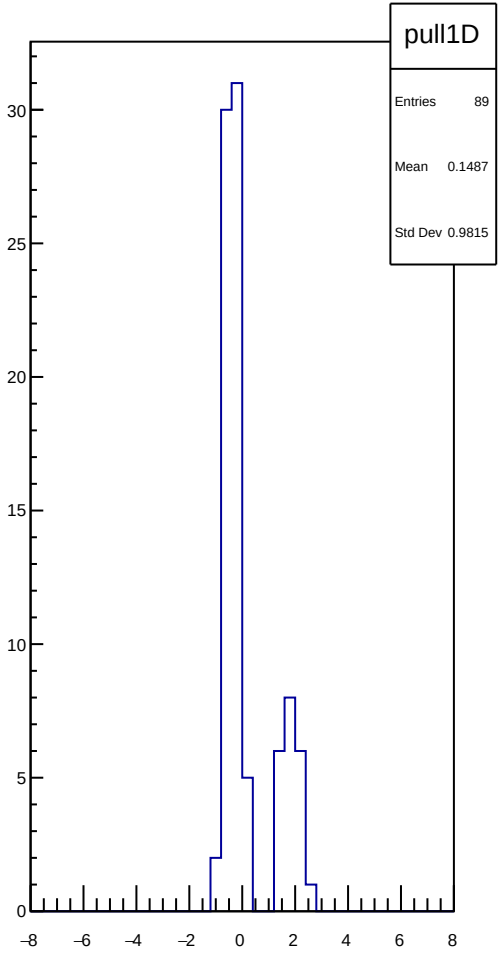

pull1D
Entries 89
Mean −0.0051
Std Dev 0.8907

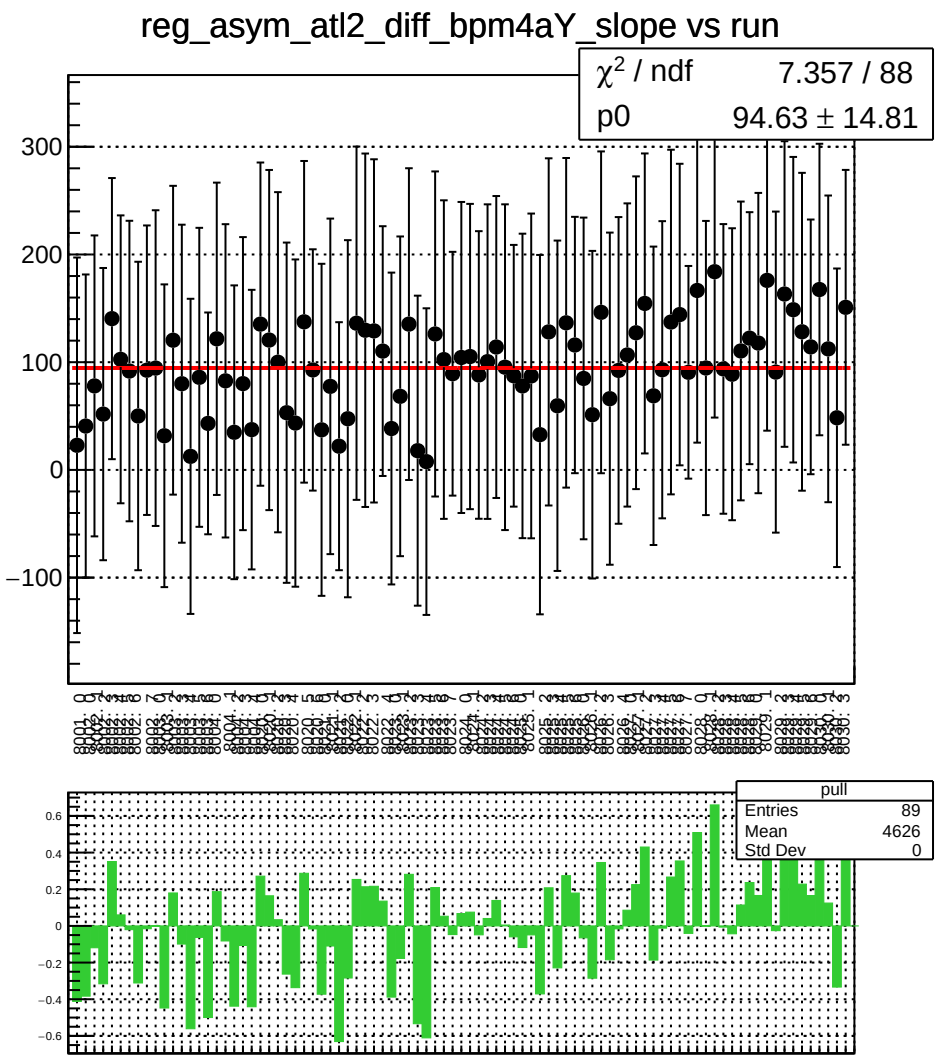

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 77 / 88
p0 −4.182 ± 4.204
pull
Entries 89
Mean 808.8
Std Dev 0

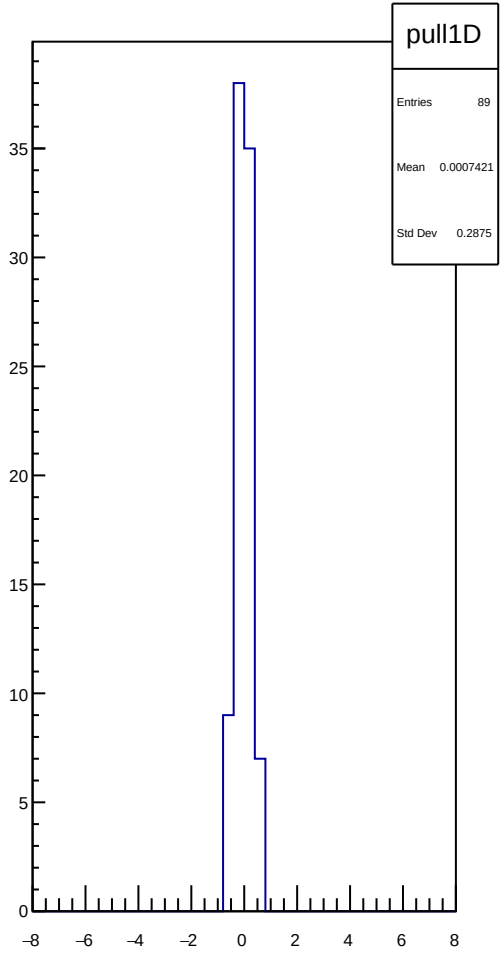

pull1D
Entries 89
Mean 0.002774
Std Dev 0.9302

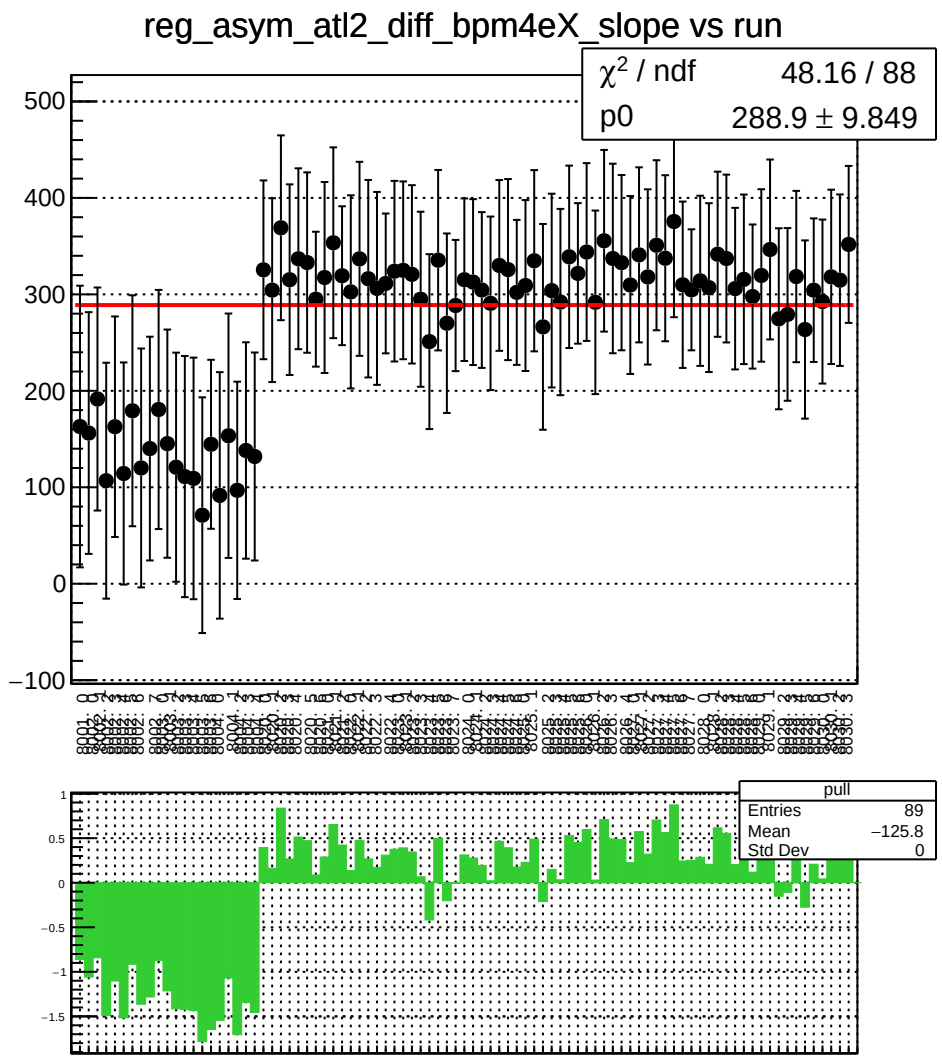

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 808.8 / 88
p0 4.946 ± 0.1876
pull
Entries 89
Mean 107.6
Std Dev 0
pull1D
Entries 89
Mean −1.034
Std Dev 1.999

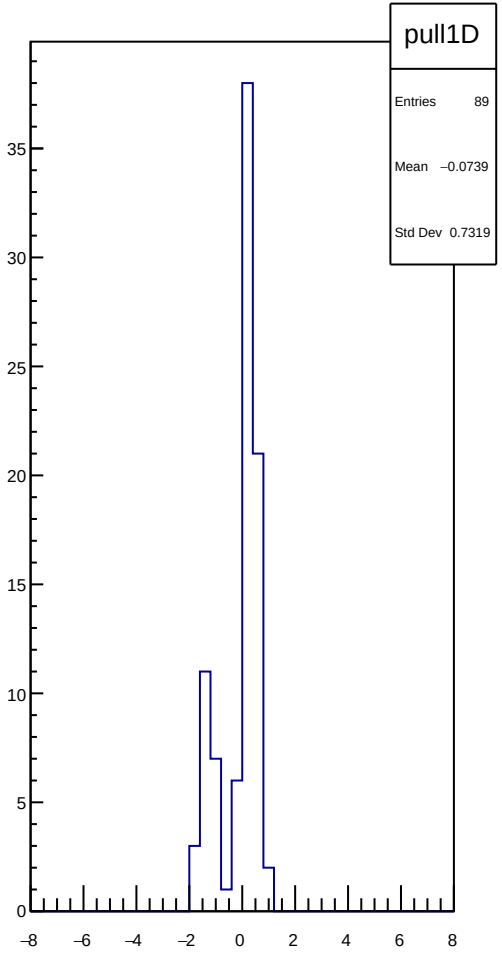

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 87.71 / 88
p0 −444.9 ± 9.434
pull
Entries 89
Mean −73.53
Std Dev 0

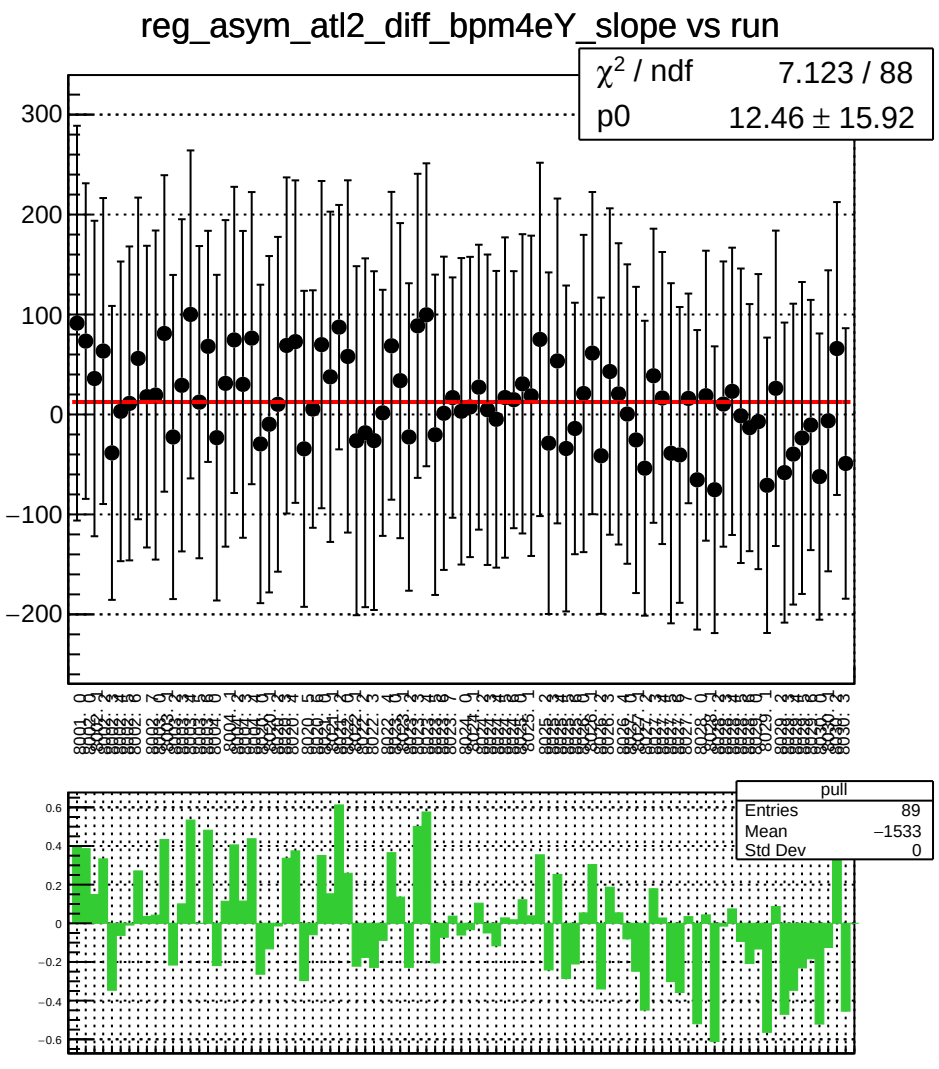

pull1D
Entries 89
Mean 0.1487
Std Dev 0.9815

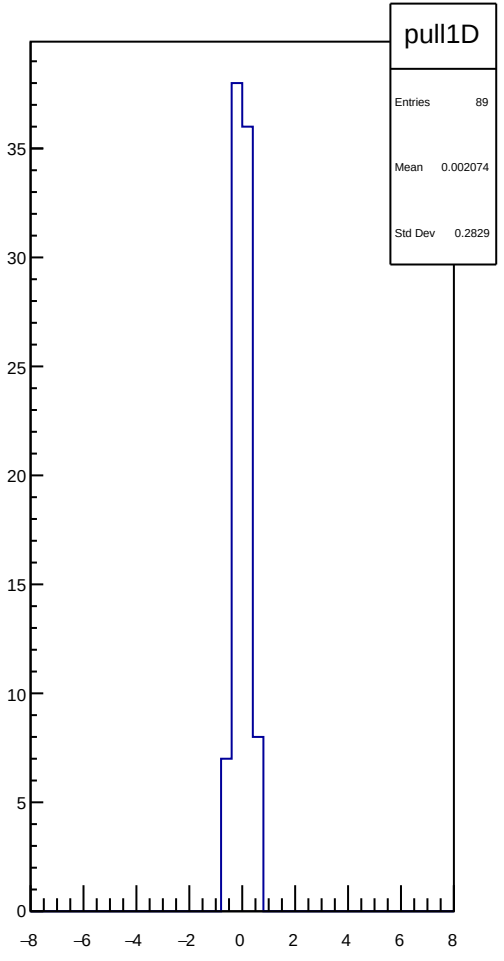

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 7.357 / 88
p0 94.63 ± 14.81
300
200
100
0
−100
pull
Entries 89
Mean 4626
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

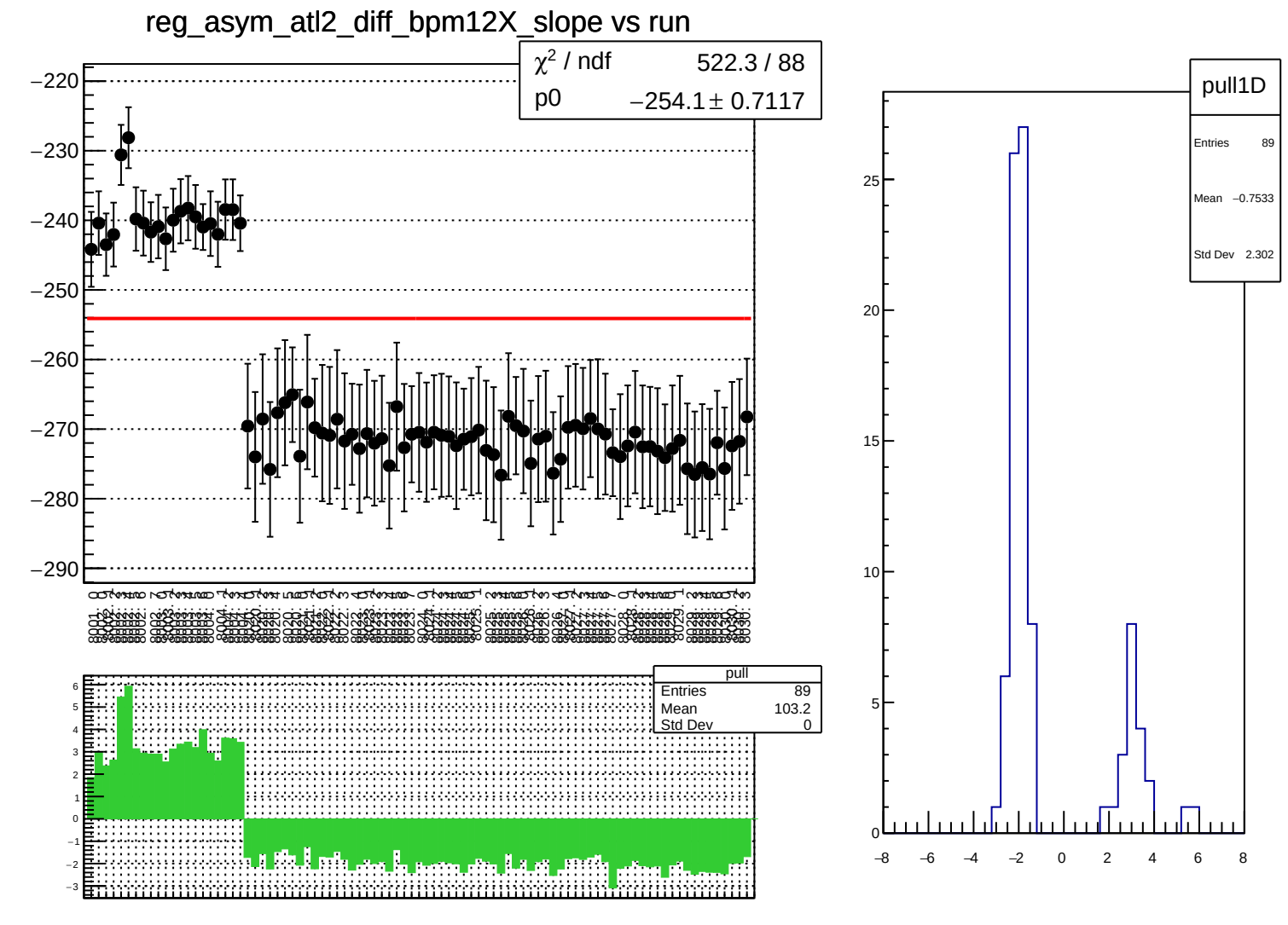

pull1D
Entries 89
Mean 0.0007421
Std Dev 0.2875
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

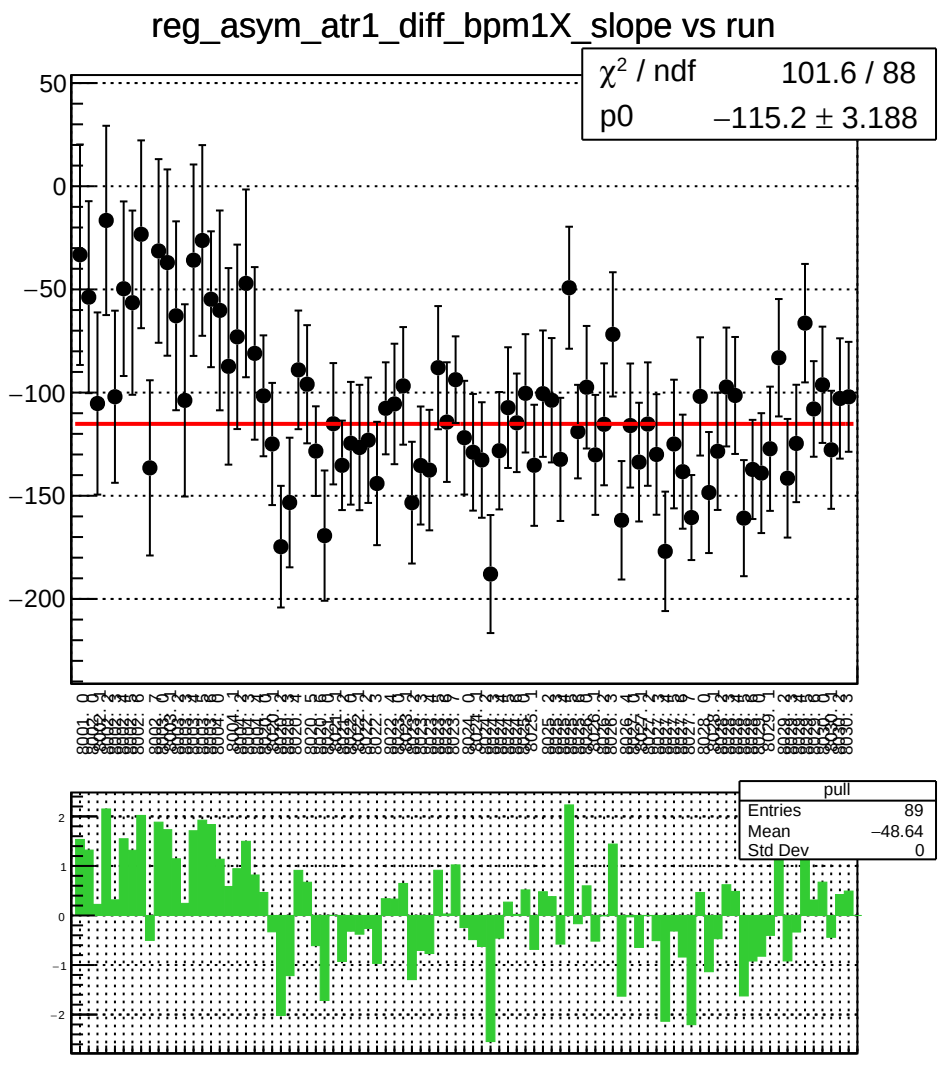

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 48.16 / 88
p0 288.9 ± 9.849
pull
Entries 89
Mean −125.8
Std Dev 0

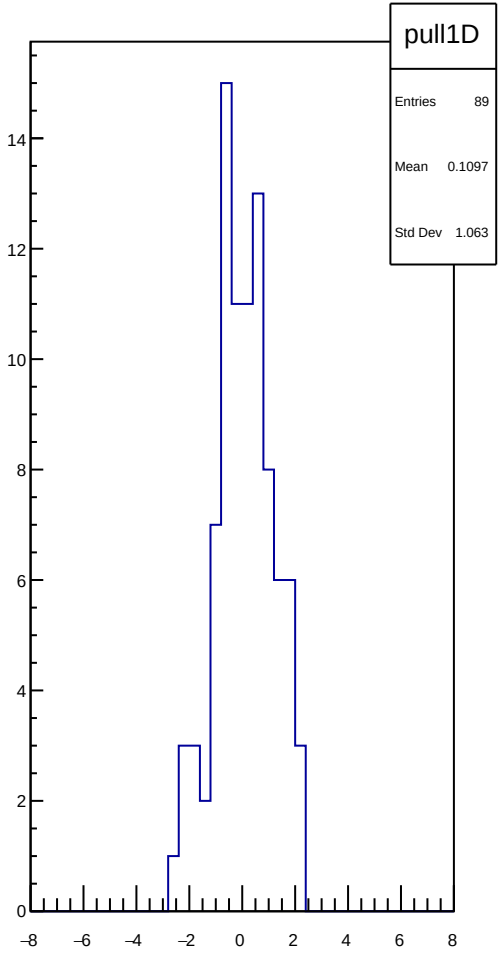

pull1D
Entries 89
Mean −0.0739
Std Dev 0.7319

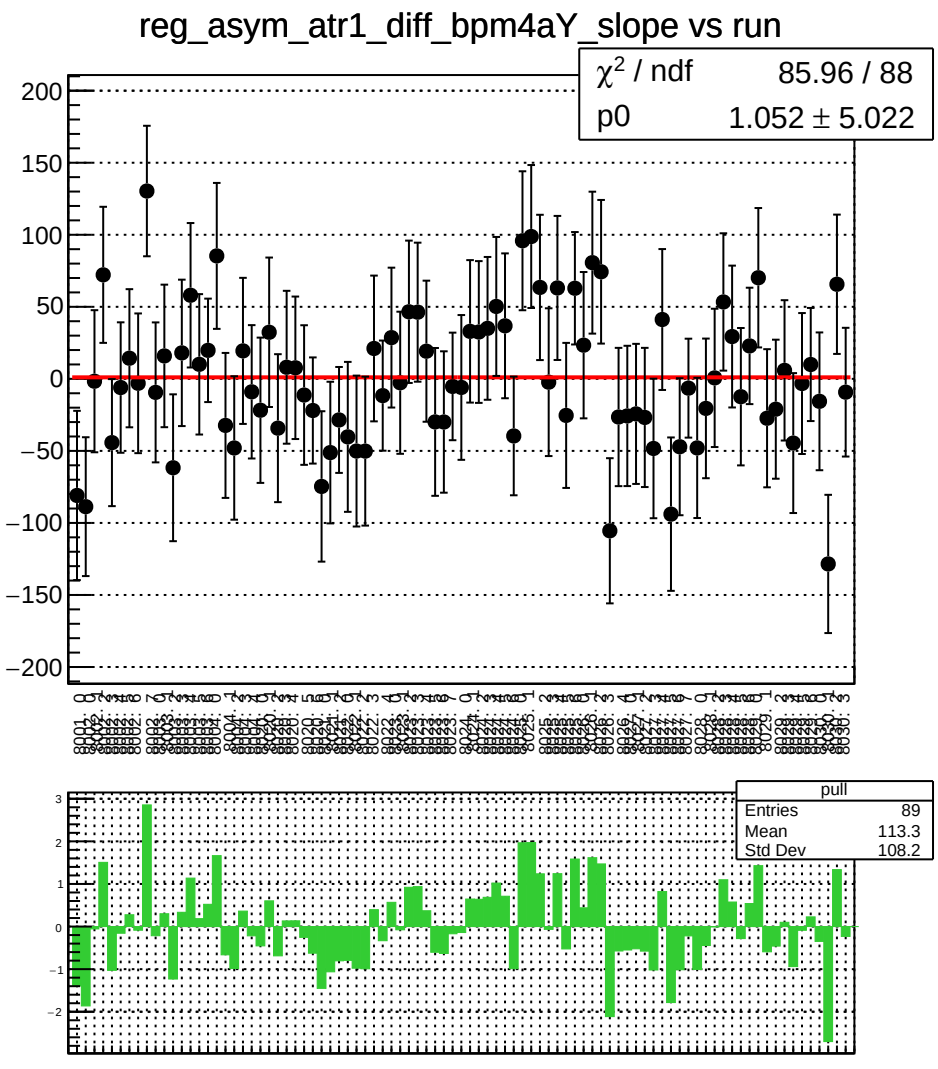

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 7.123 / 88
p0 12.46 ± 15.92
300
200
100
0
−100
−200
pull
Entries 89
Mean −1533
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

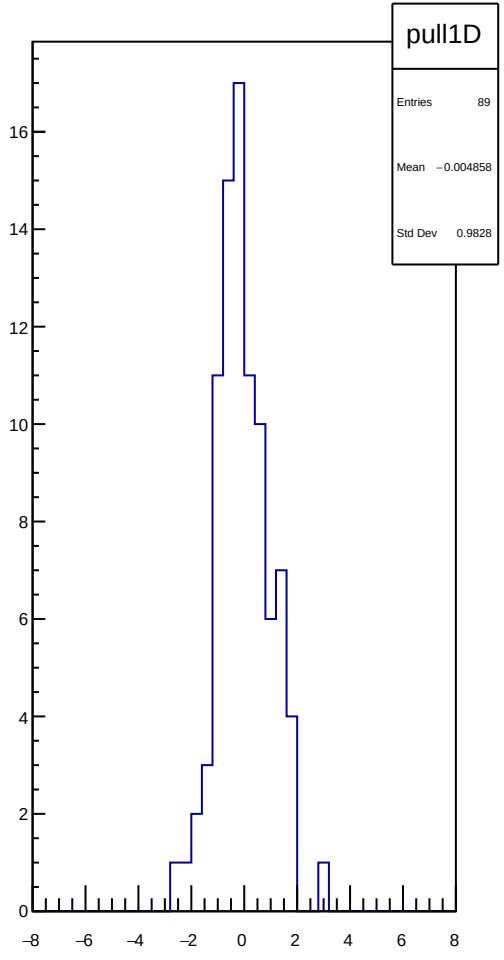

pull1D
Entries 89
Mean 0.002074
Std Dev 0.2829
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

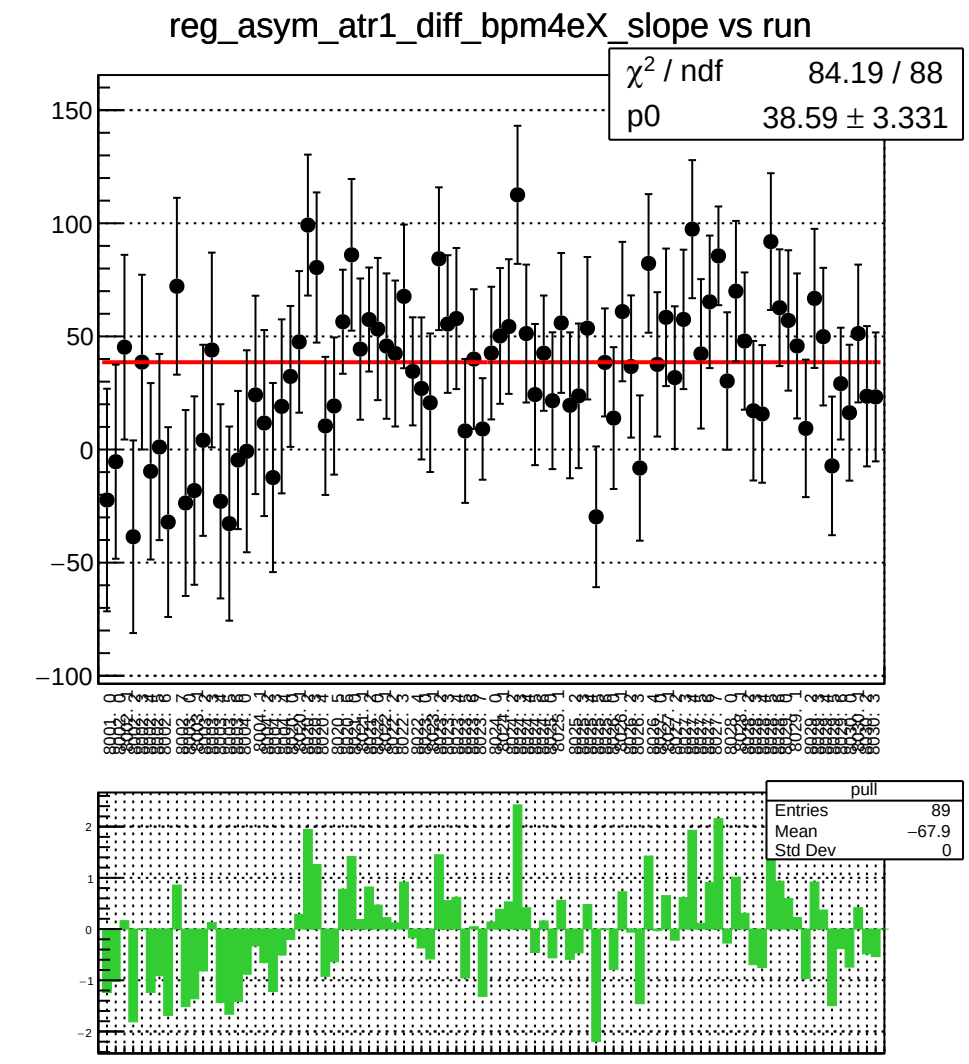

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 522.3 / 88
p0 −254.1 ± 0.7117
pull
Entries 89
Mean 103.2
Std Dev 0
pull1D
Entries 89
Mean −0.7533
Std Dev 2.302

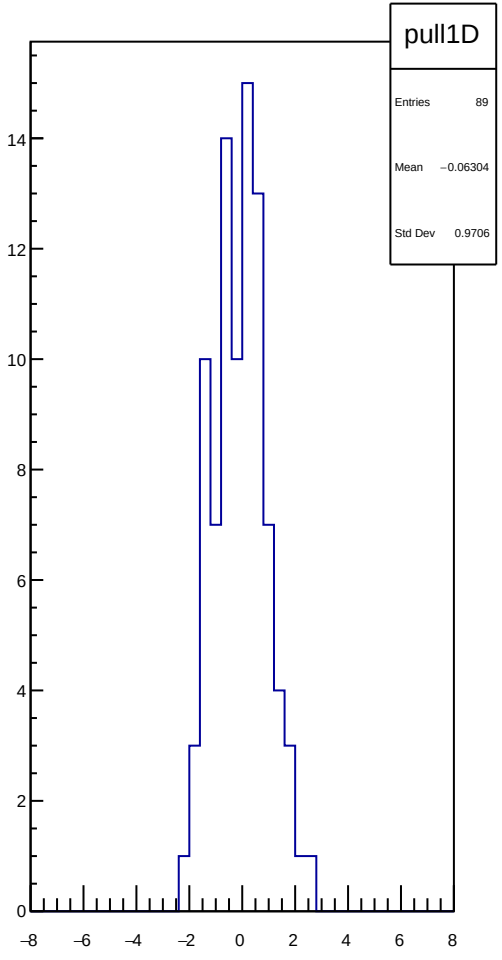

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 101.6 / 88
p0 −115.2 ± 3.188
pull
Entries 89
Mean −48.64
Std Dev 0

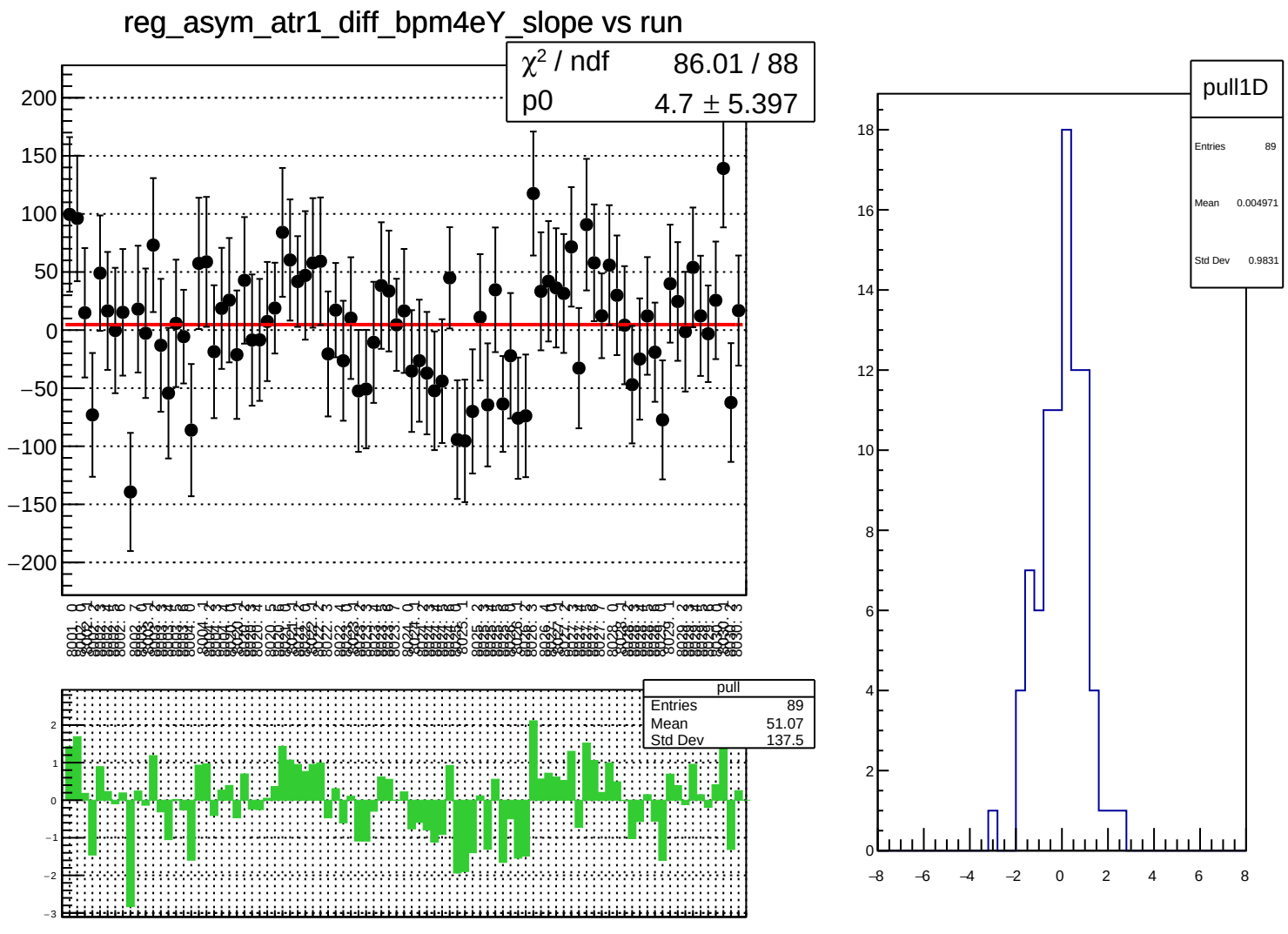

pull1D
Entries 89
Mean 0.1097
Std Dev 1.063

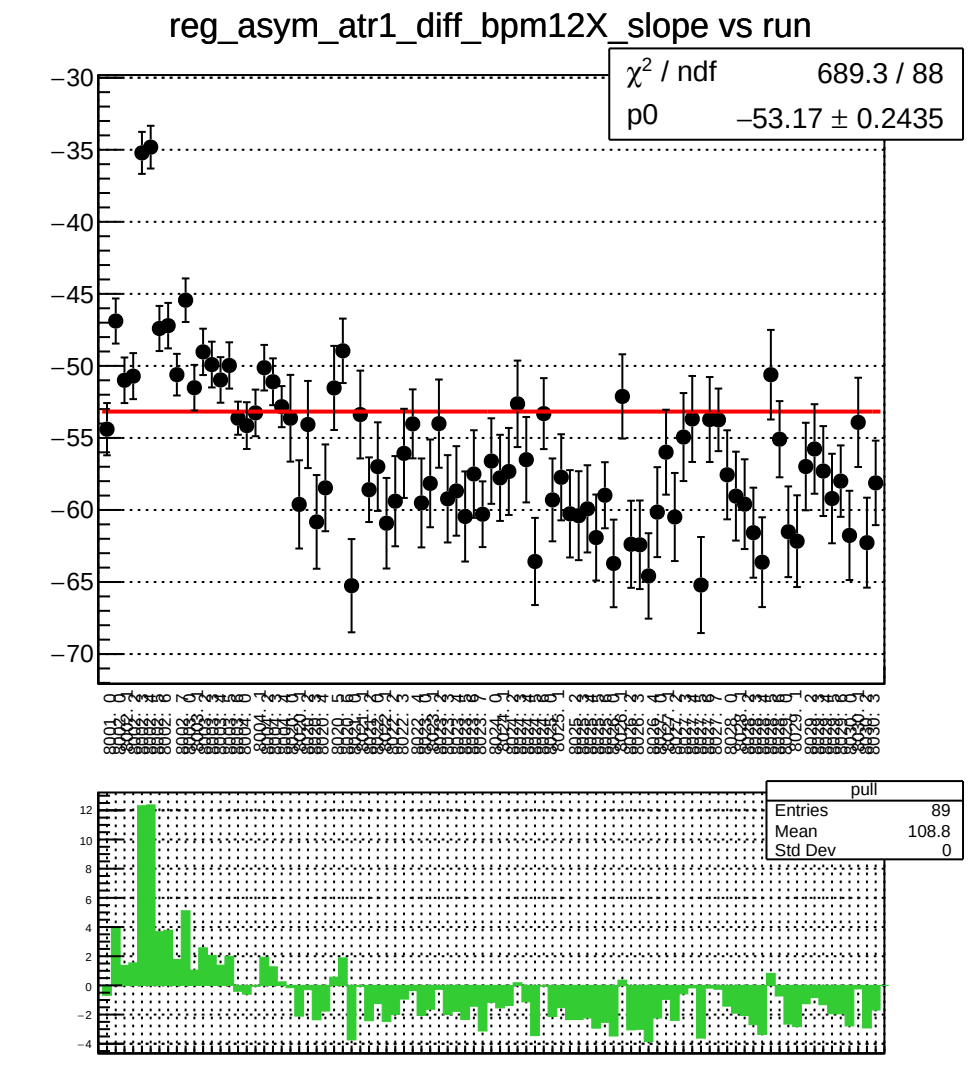

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 85.96 / 88
p0 1.052 ± 5.022
pull
Entries 89
Mean 113.3
Std Dev 108.2

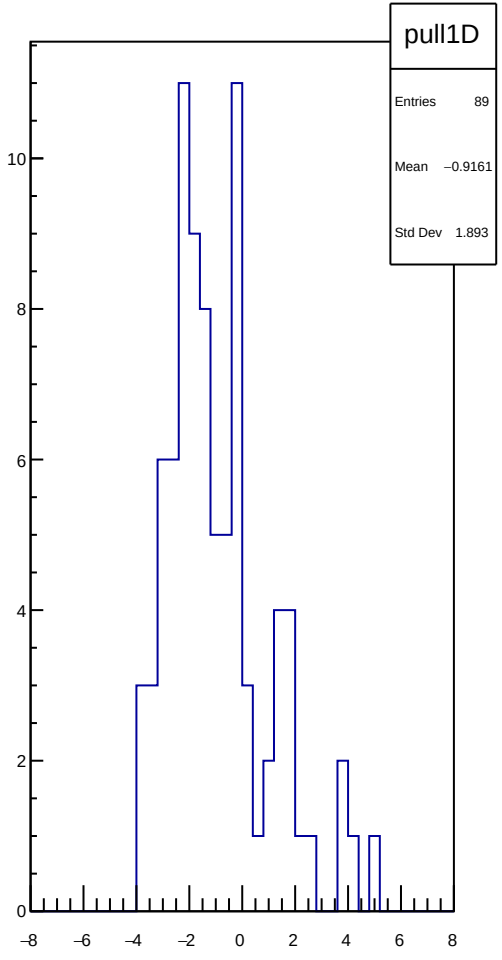

pull1D
Entries 89
Mean −0.004858
Std Dev 0.9828

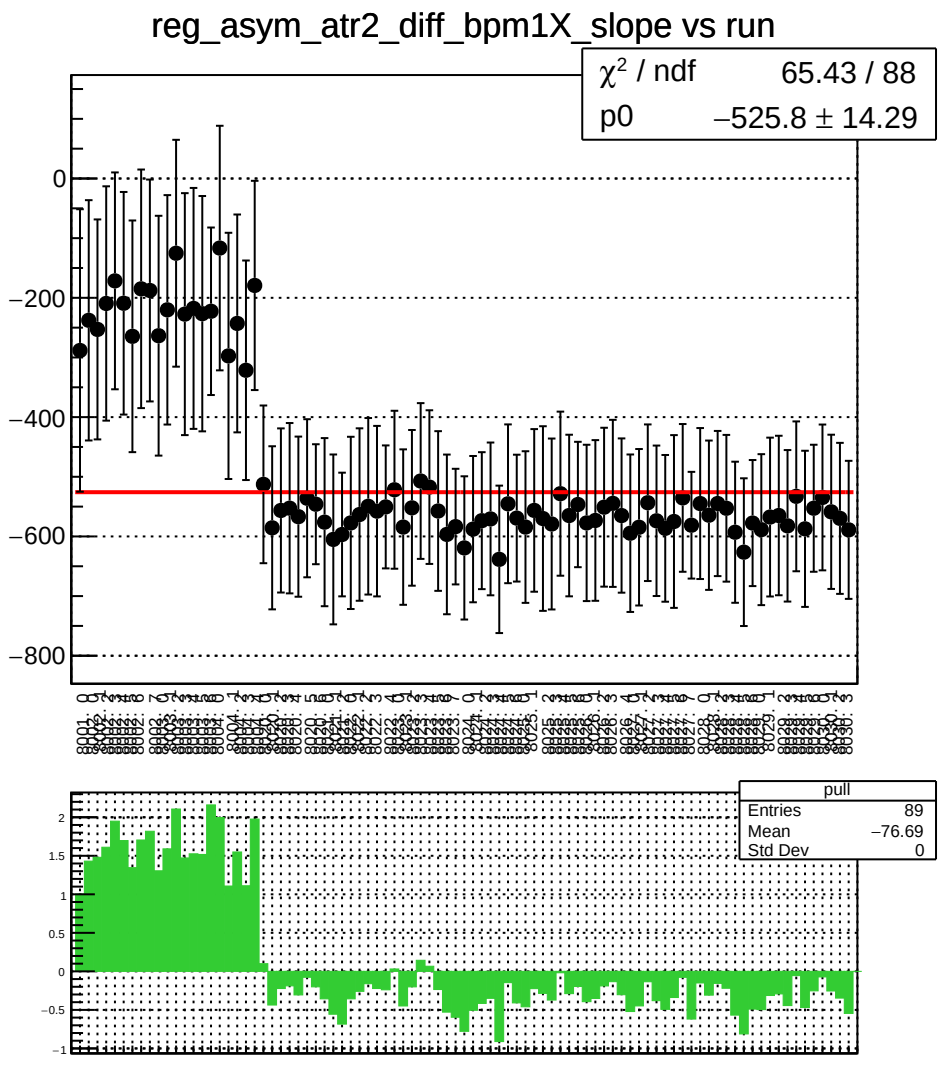

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 84.19 / 88
p0 38.59 ± 3.331
150
100
50
0
−50
−100
pull
Entries 89
Mean −67.9
Std Dev 0
2
1
0
−1
−2

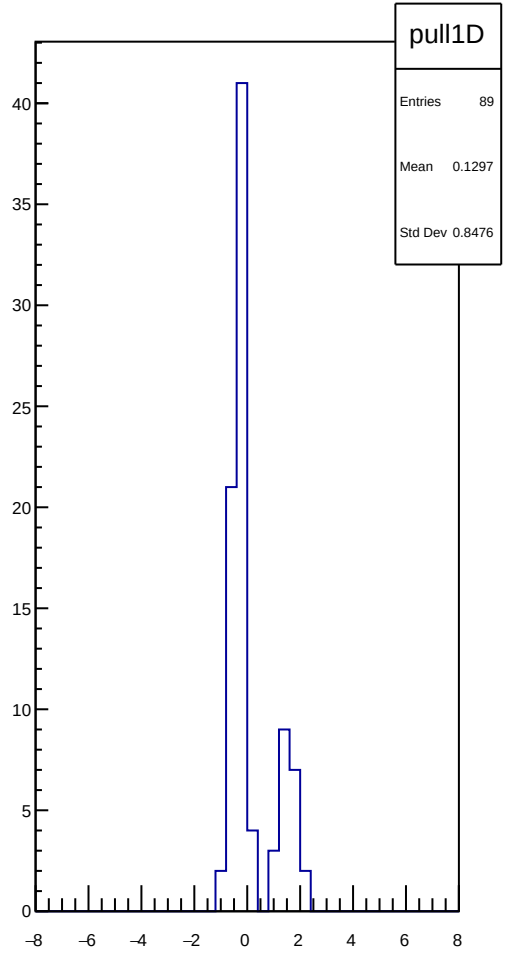

pull1D
Entries 89
Mean −0.06304
Std Dev 0.9706
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

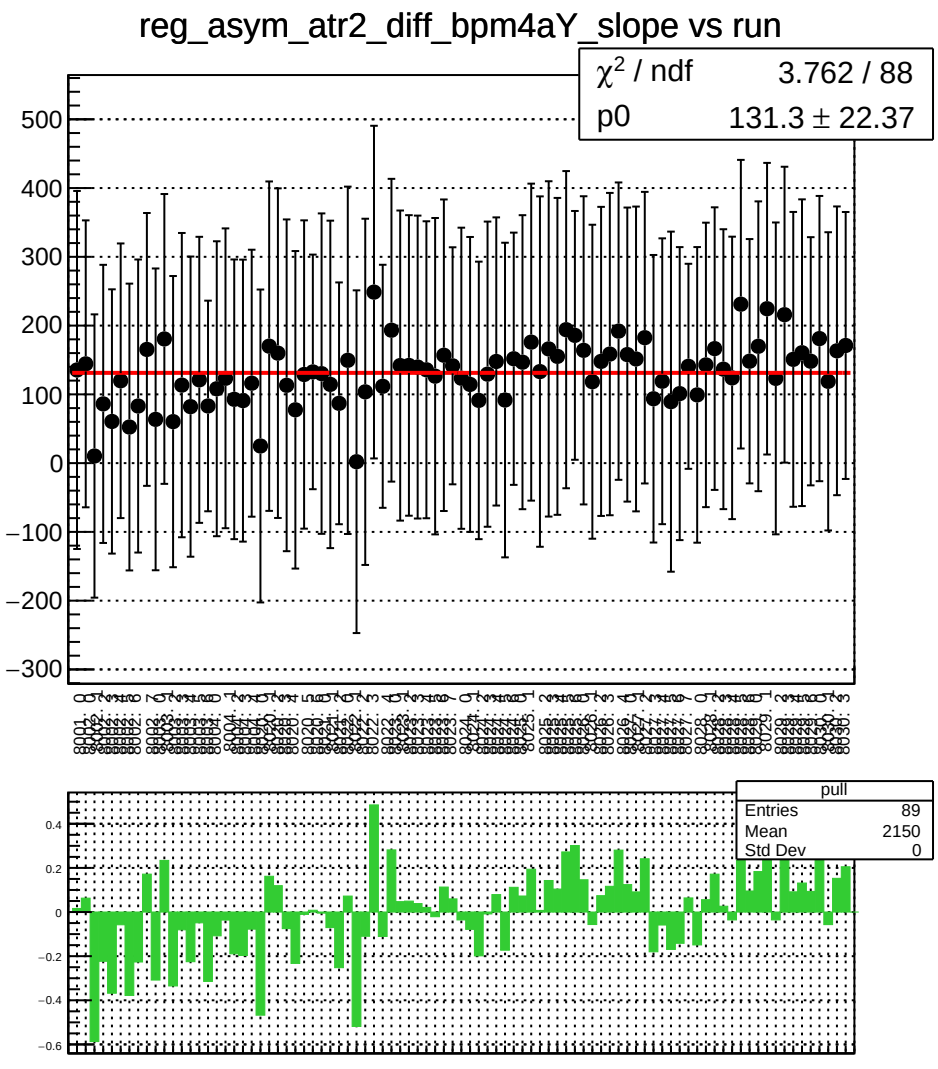

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 86.01 / 88
p0 4.7 ± 5.397
pull
Entries 89
Mean 51.07
Std Dev 137.5
pull1D
Entries 89
Mean 0.004971
Std Dev 0.9831

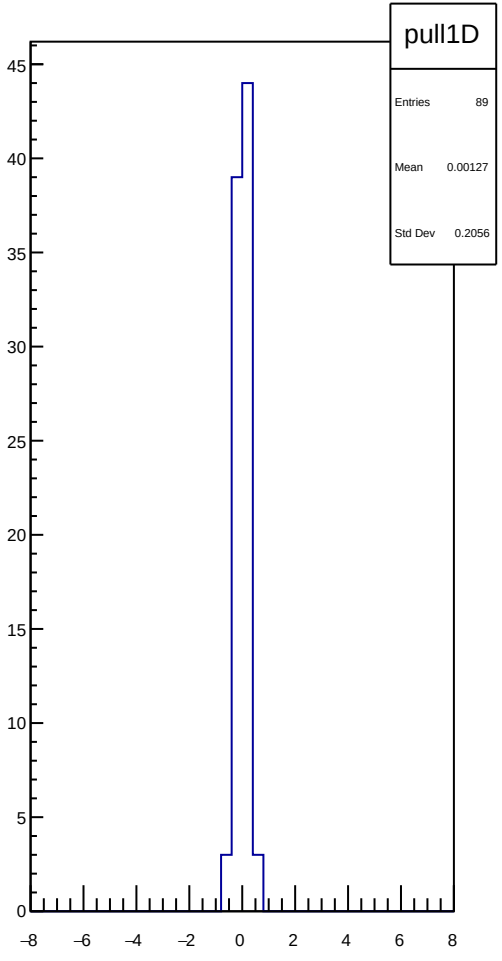

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 689.3 / 88
p0 −53.17 ± 0.2435
pull
Entries 89
Mean 108.8
Std Dev 0

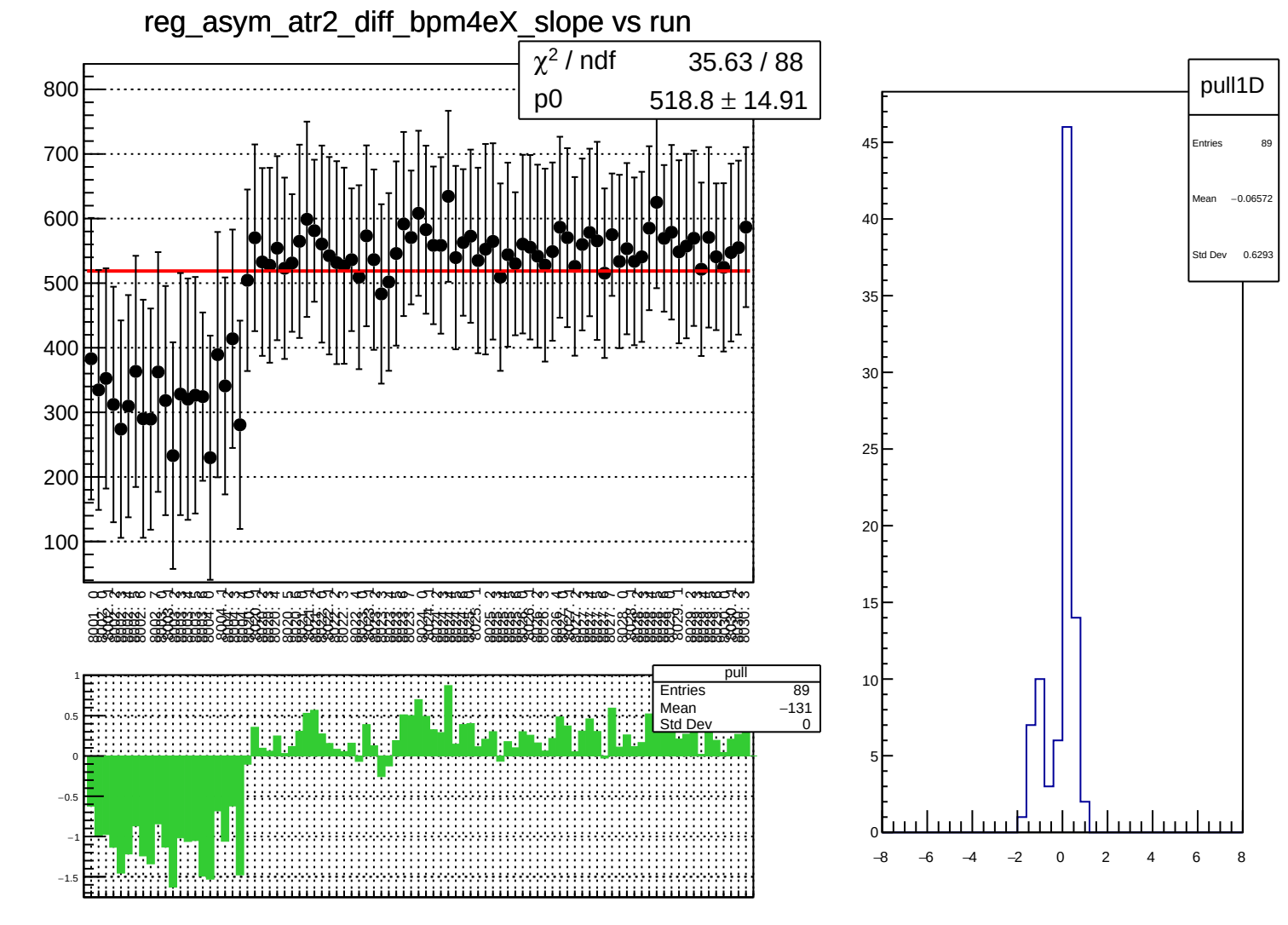

pull1D
Entries 89
Mean −0.9161
Std Dev 1.893

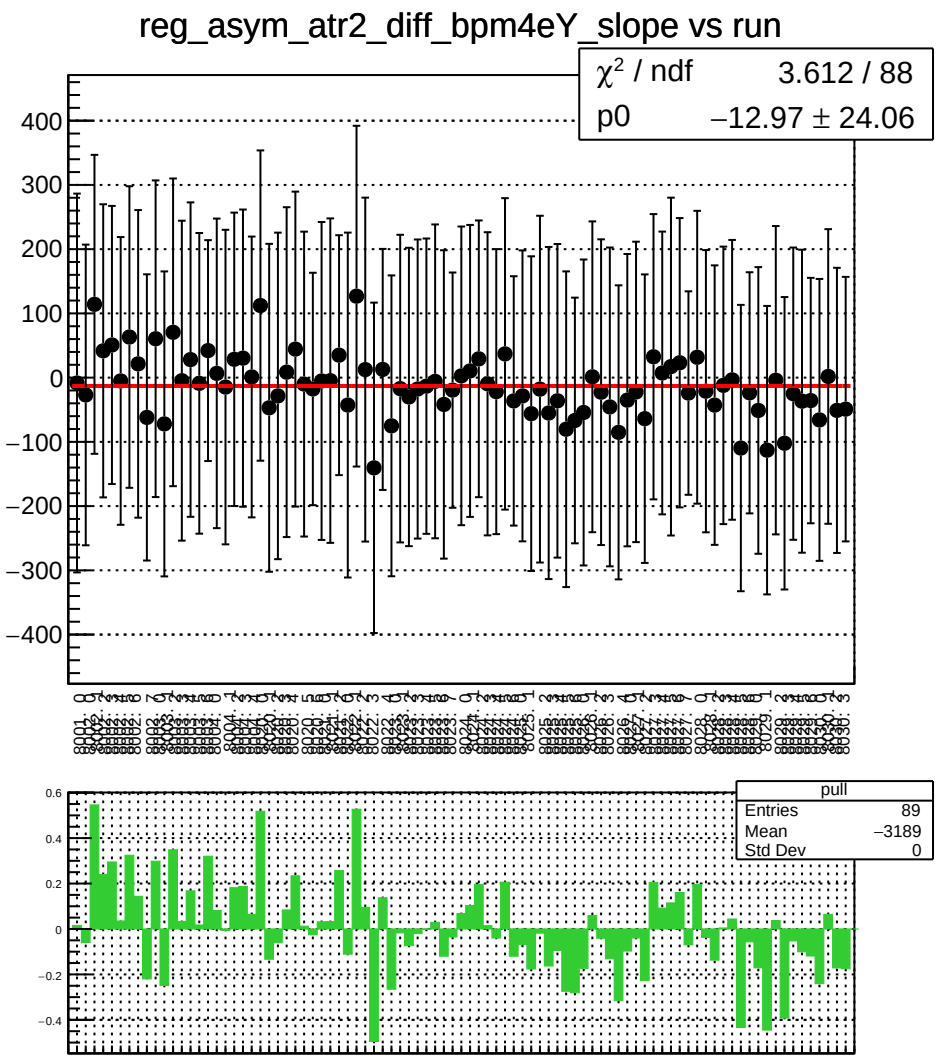

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 65.43 / 88
p0 −525.8 ± 14.29
0
−200
−400
−600
−800
pull
Entries 89
Mean −76.69
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

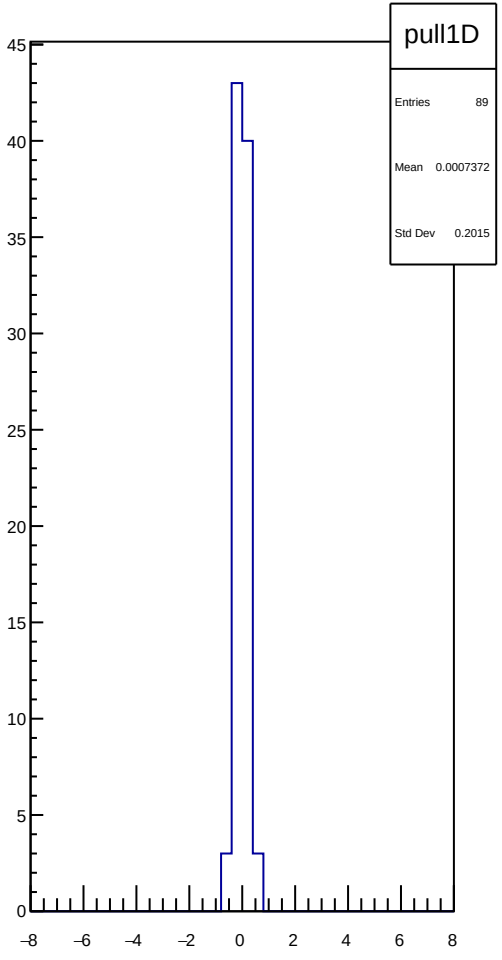

pull1D
Entries 89
Mean 0.1297
Std Dev 0.8476
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

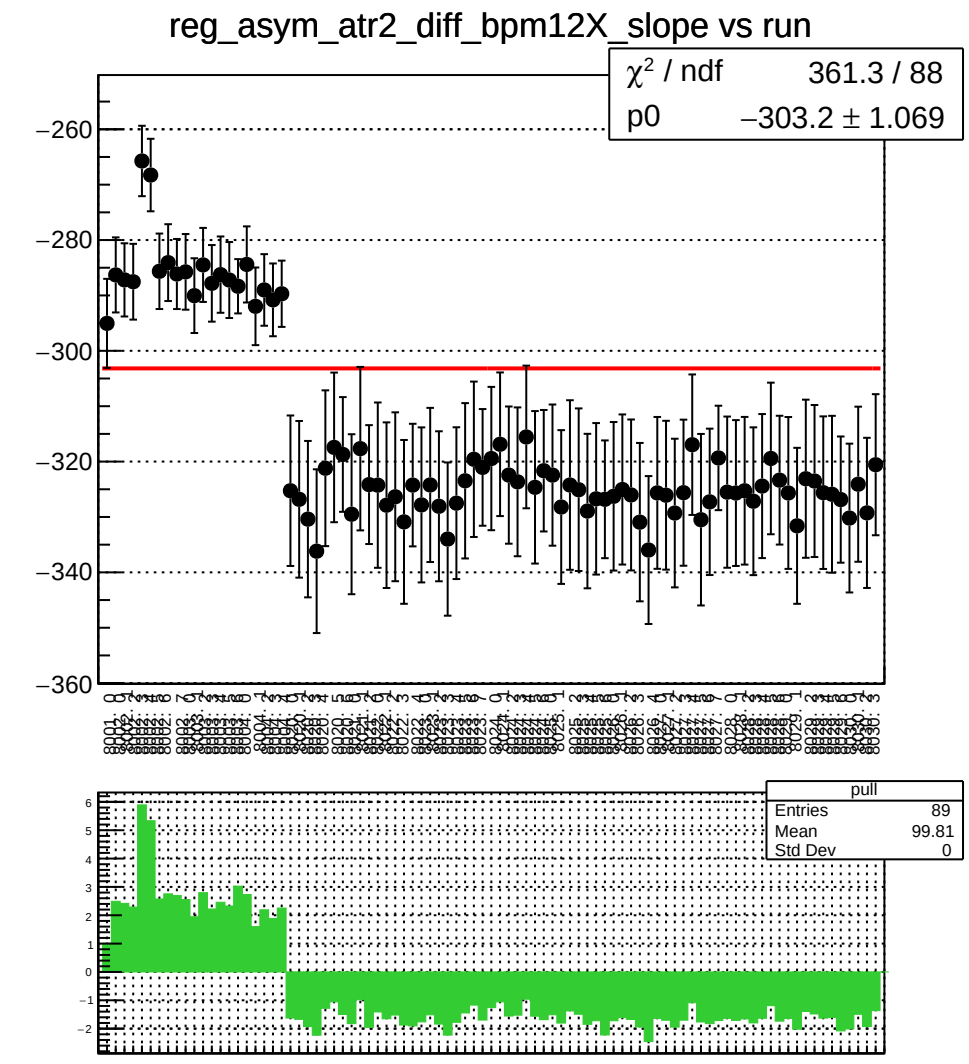

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 3.762 / 88
p0 131.3 ± 22.37
pull
Entries 89
Mean 2150
Std Dev 0

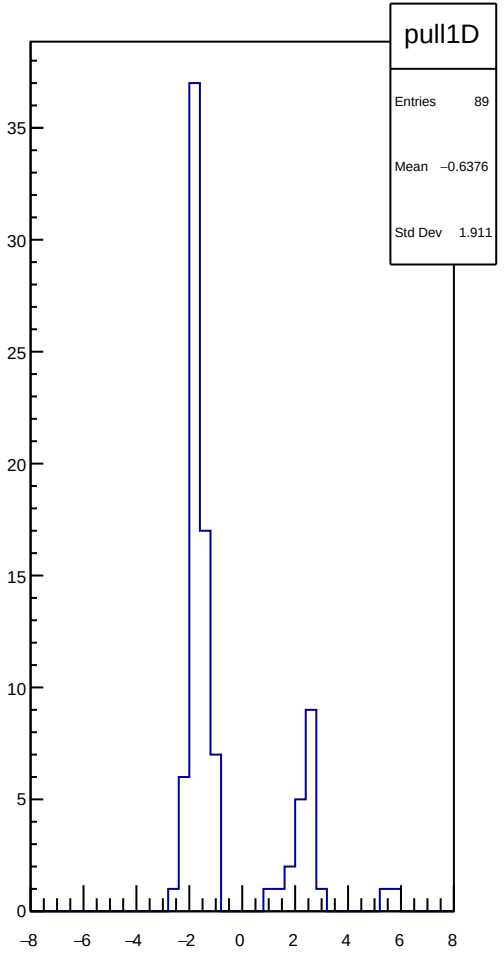

pull1D
Entries 89
Mean 0.00127
Std Dev 0.2056

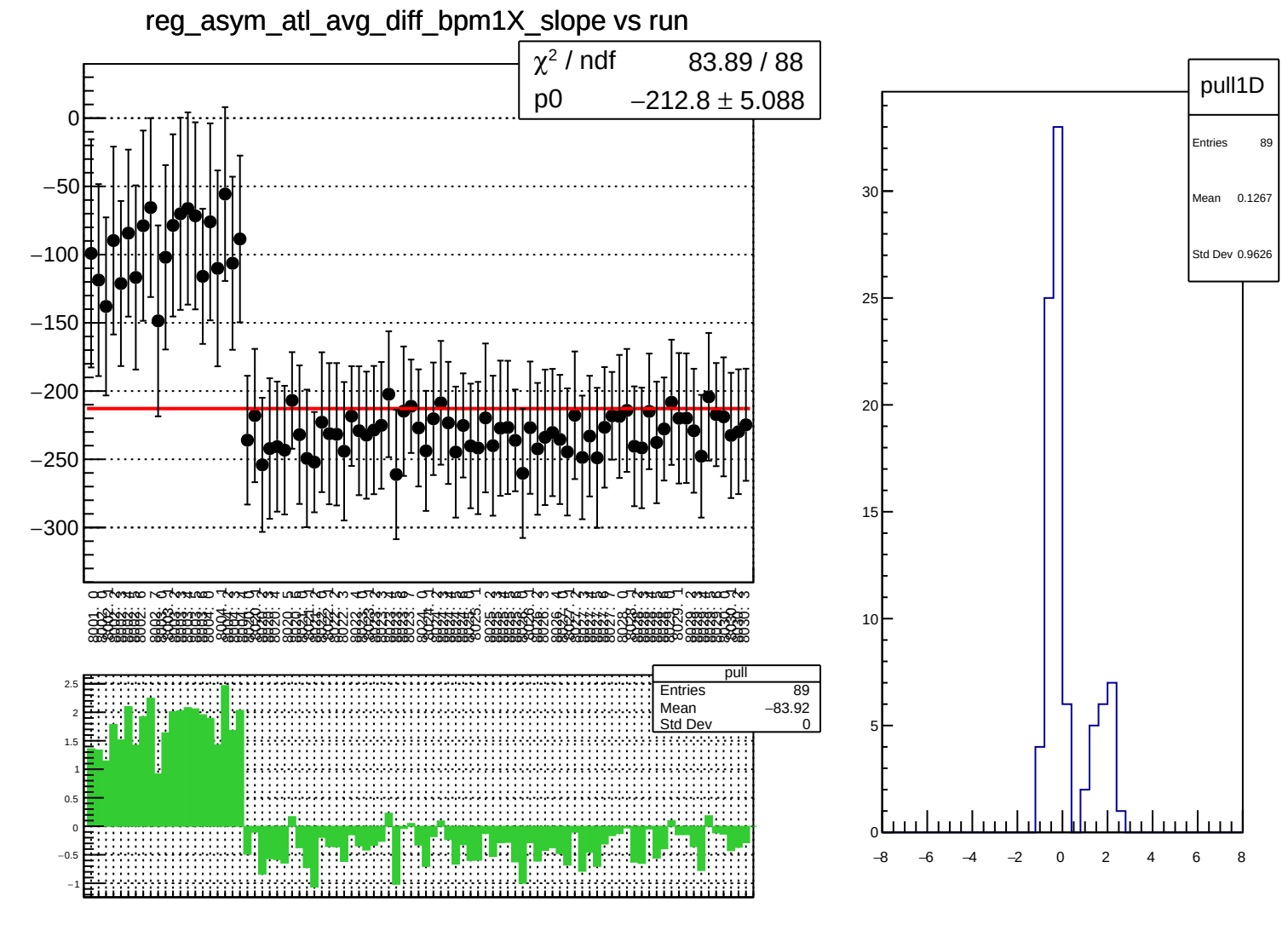

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 35.63 / 88
p0 518.8 ± 14.91
pull
Entries 89
Mean −131
Std Dev 0
pull1D
Entries 89
Mean −0.06572
Std Dev 0.6293

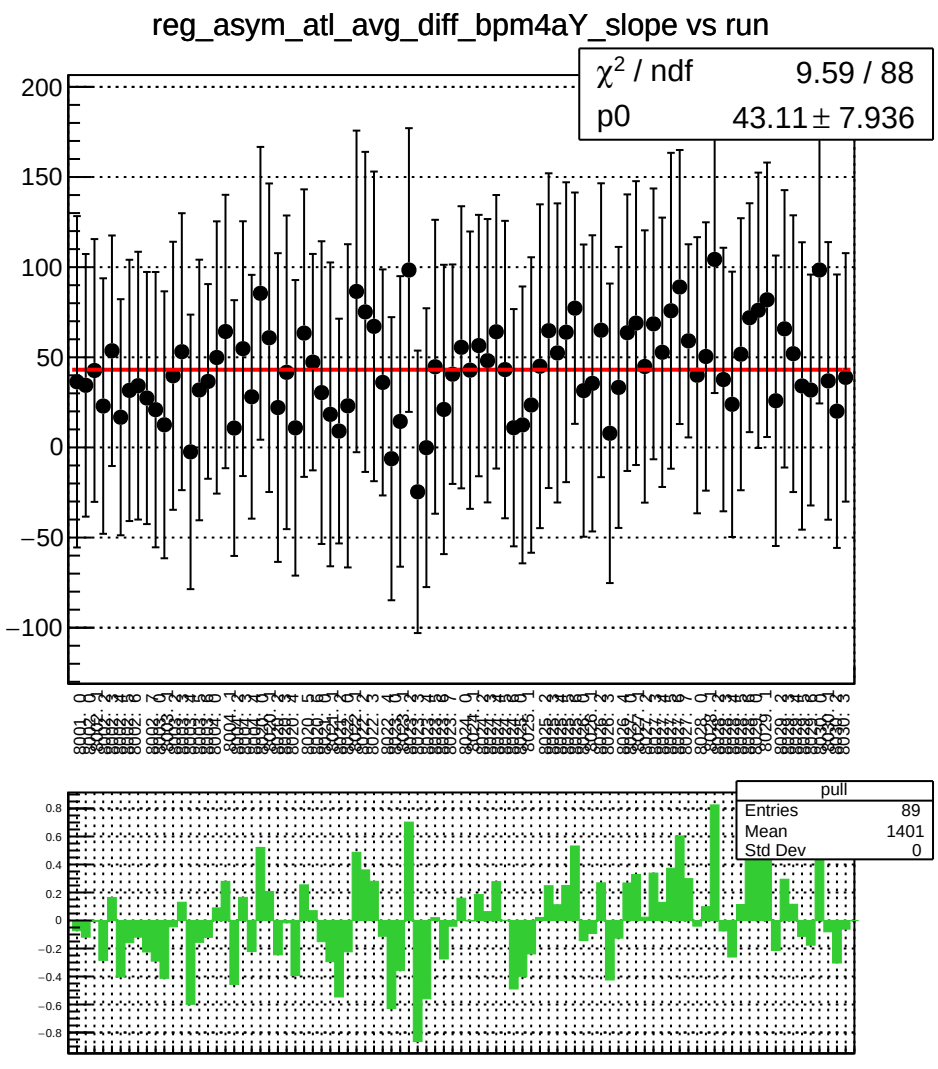

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 3.612 / 88
p0 −12.97 ± 24.06
pull
Entries 89
Mean −3189
Std Dev 0

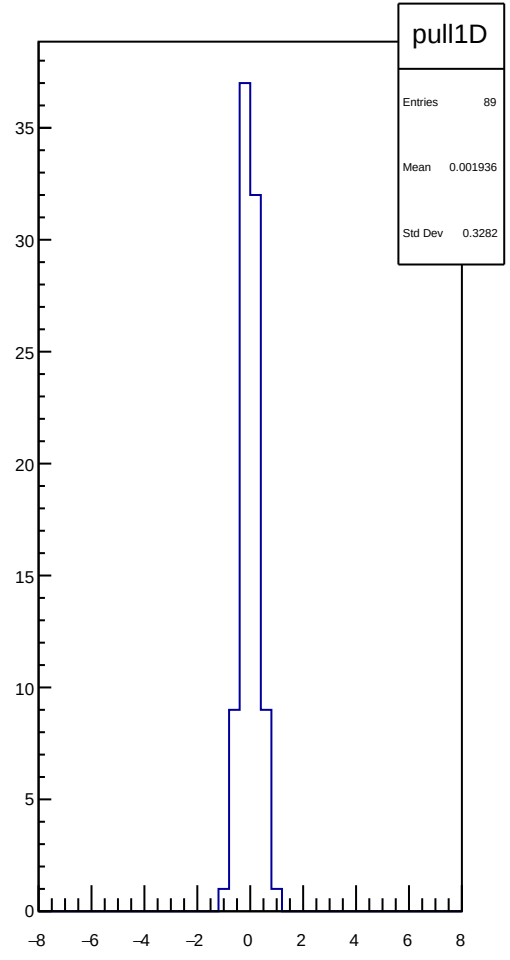

pull1D
Entries 89
Mean 0.0007372
Std Dev 0.2015

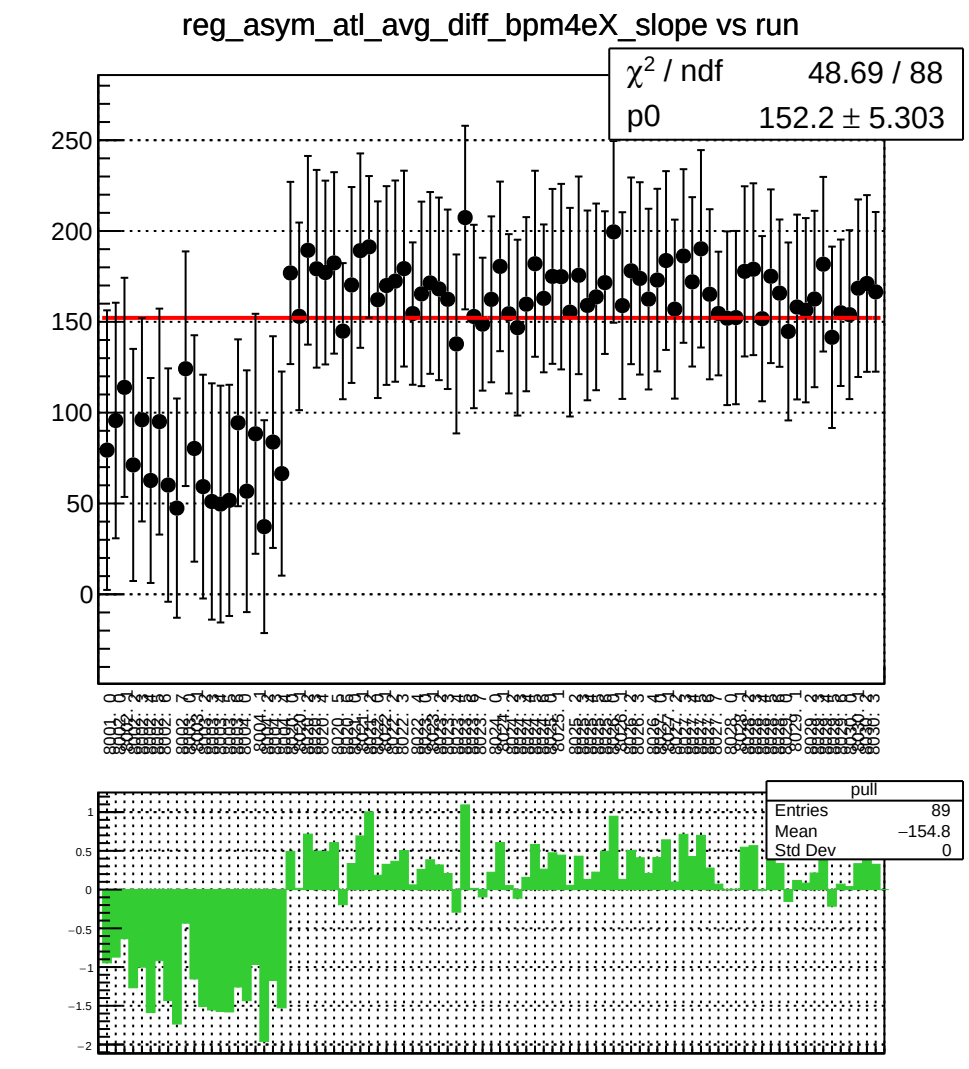

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 361.3 / 88
p0 −303.2 ± 1.069
pull
Entries 89
Mean 99.81
Std Dev 0

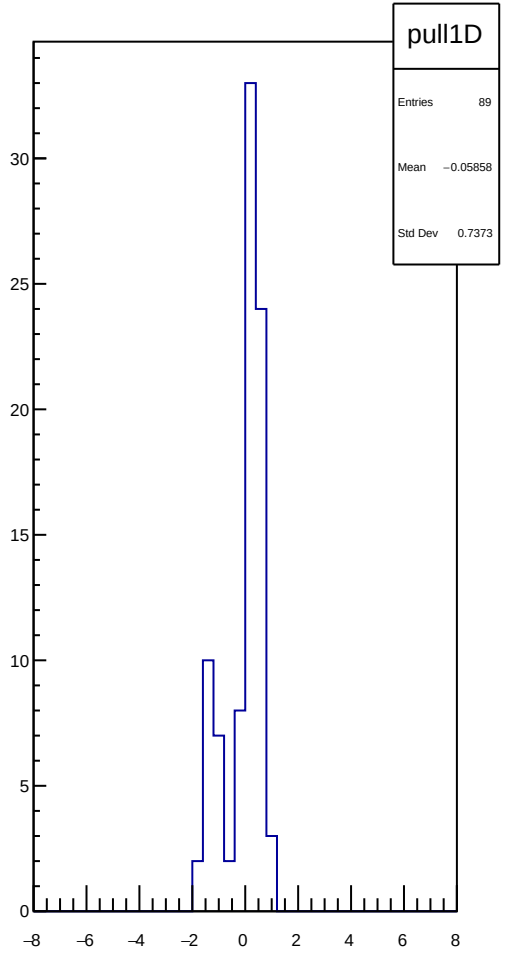

pull1D
Entries 89
Mean −0.6376
Std Dev 1.911

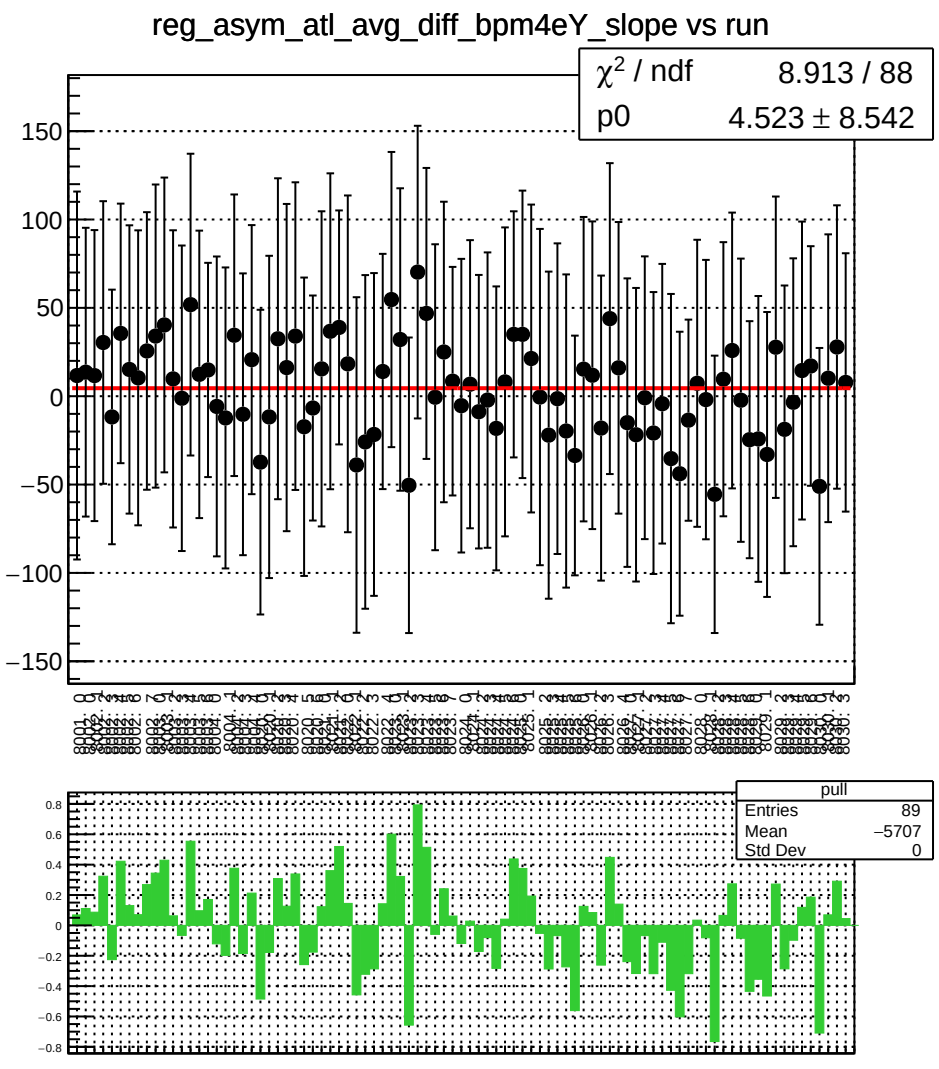

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 83.89 / 88
p0 −212.8 ± 5.088
pull
Entries 89
Mean −83.92
Std Dev 0
pull1D
Entries 89
Mean 0.1267
Std Dev 0.9626

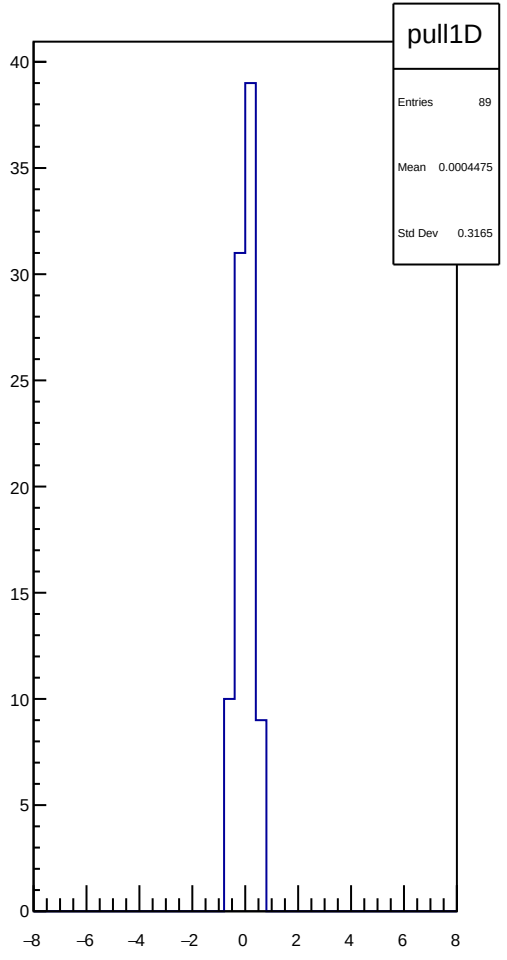

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.59 / 88
p0 43.11 ± 7.936
200
150
100
50
0
−50
−100
pull
Entries 89
Mean 1401
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

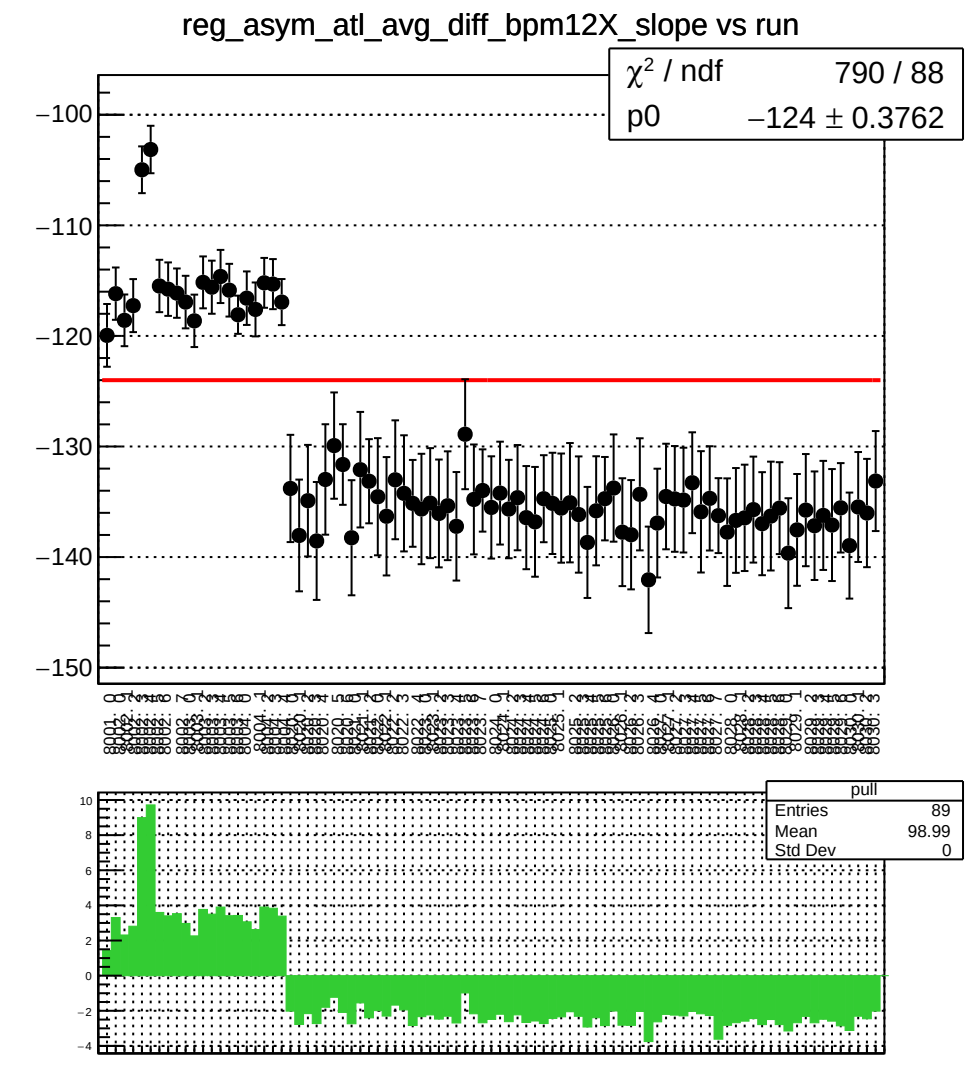

pull1D
Entries 89
Mean 0.001936
Std Dev 0.3282
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

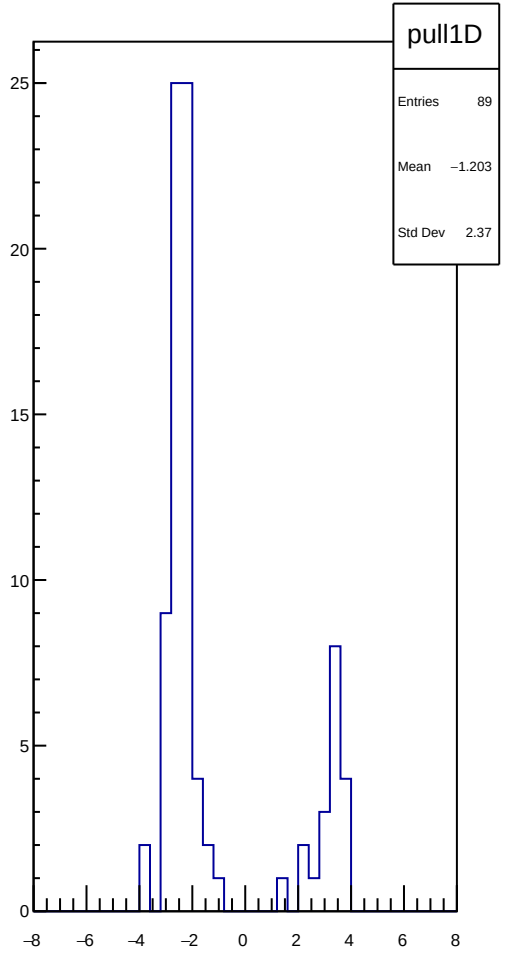

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 48.69 / 88
p0 152.2 ± 5.303
250
200
150
100
50
0
pull
Entries 89
Mean −154.8
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

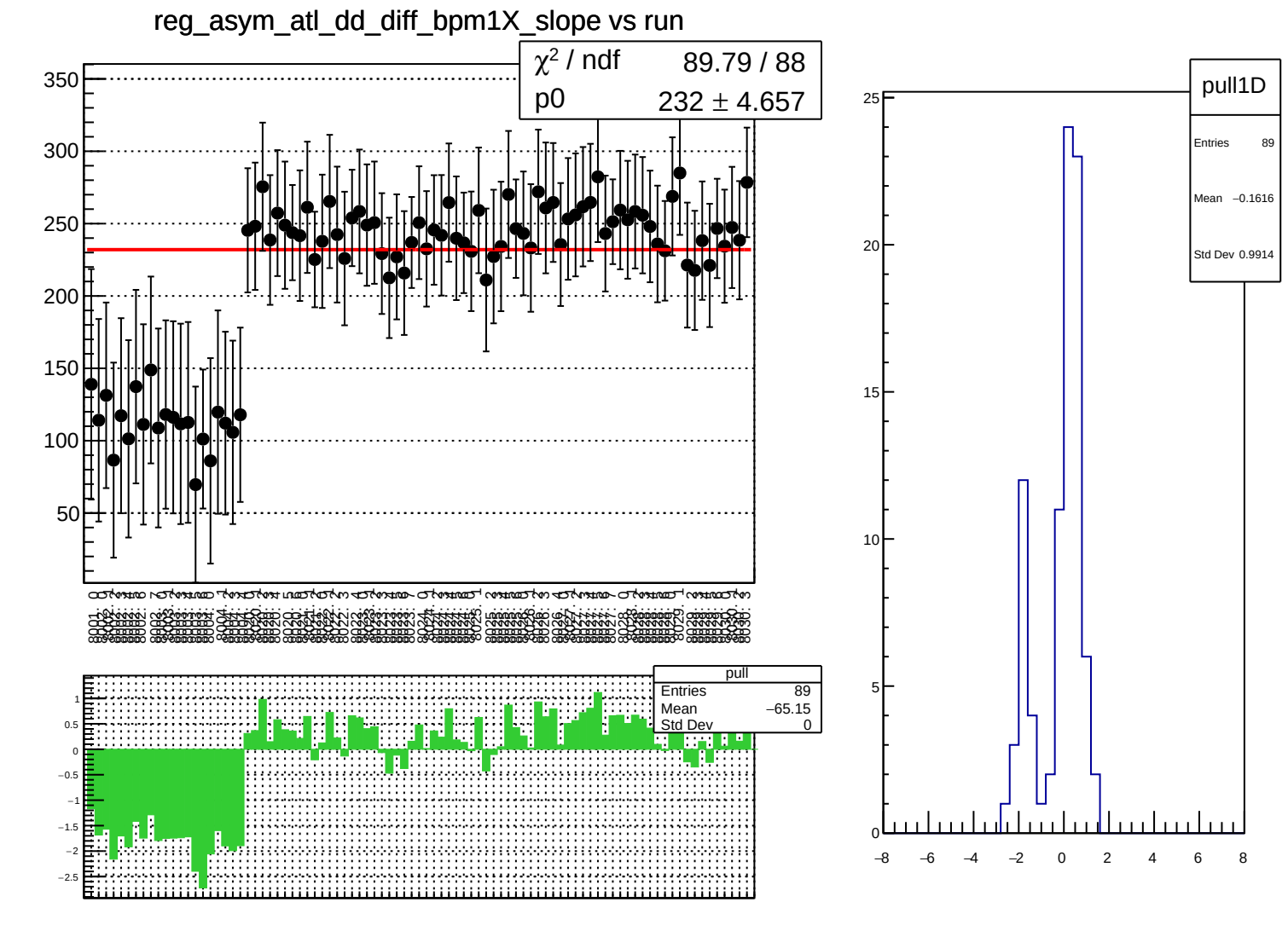

pull1D
Entries 89
Mean −0.05858
Std Dev 0.7373
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

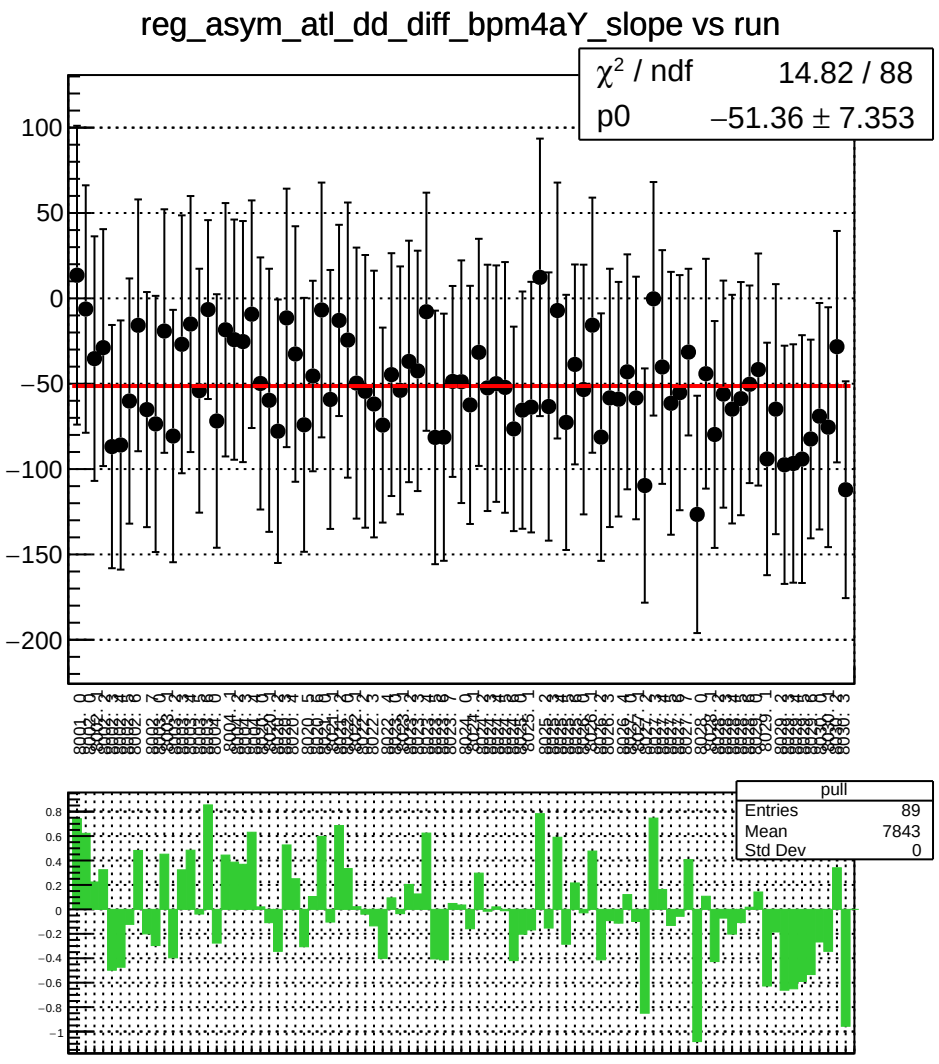

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.913 / 88
p0 4.523 ± 8.542
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −5707
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

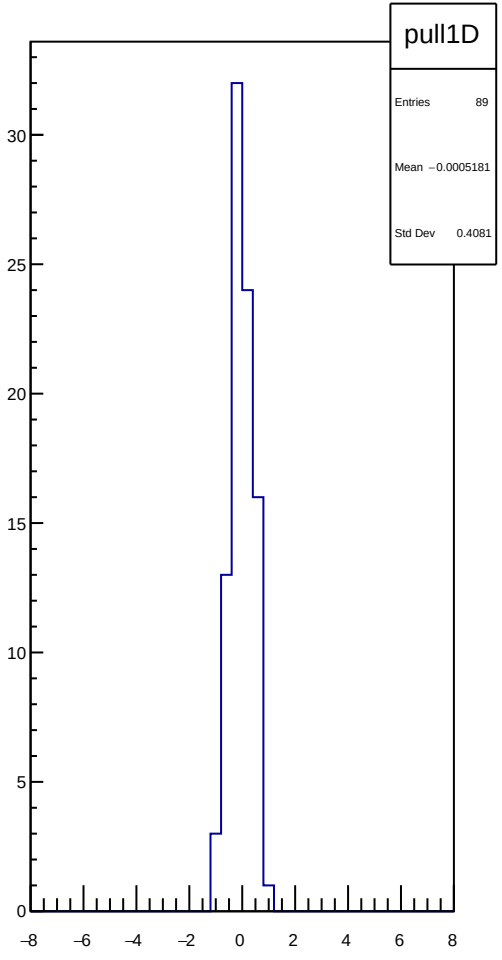

pull1D
Entries 89
Mean 0.0004475
Std Dev 0.3165
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

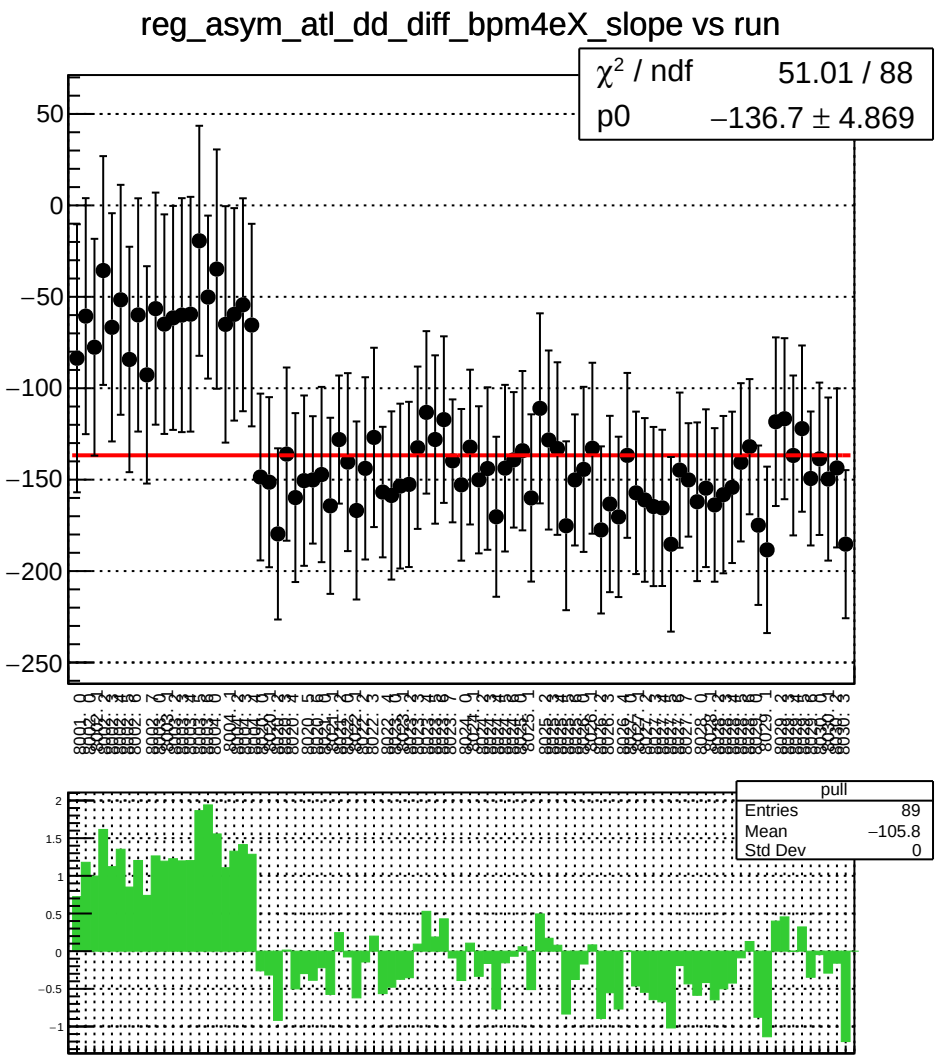

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 790 / 88
p0 −124 ± 0.3762
−100
−110
−120
−130
−140
−150
pull
Entries 89
Mean 98.99
Std Dev 0
10
8
6
4
2
0
−2
−4

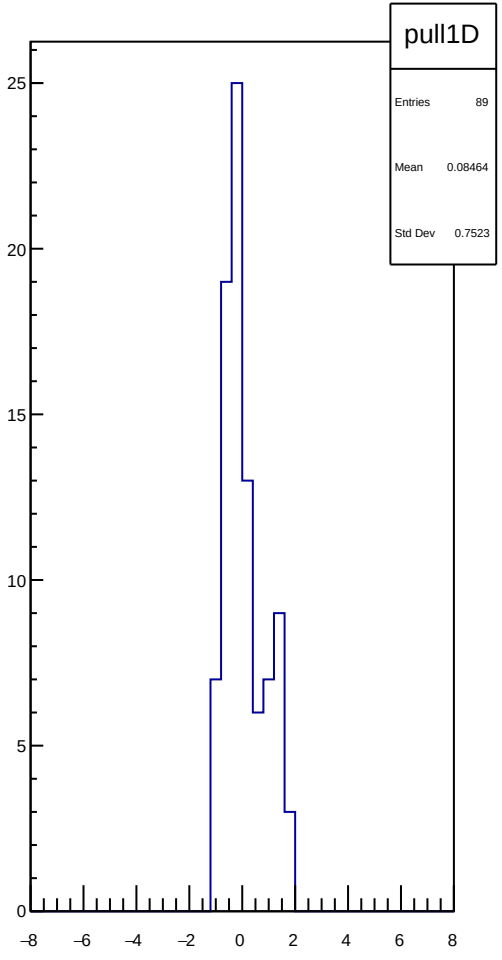

pull1D
Entries 89
Mean −1.203
Std Dev 2.37
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

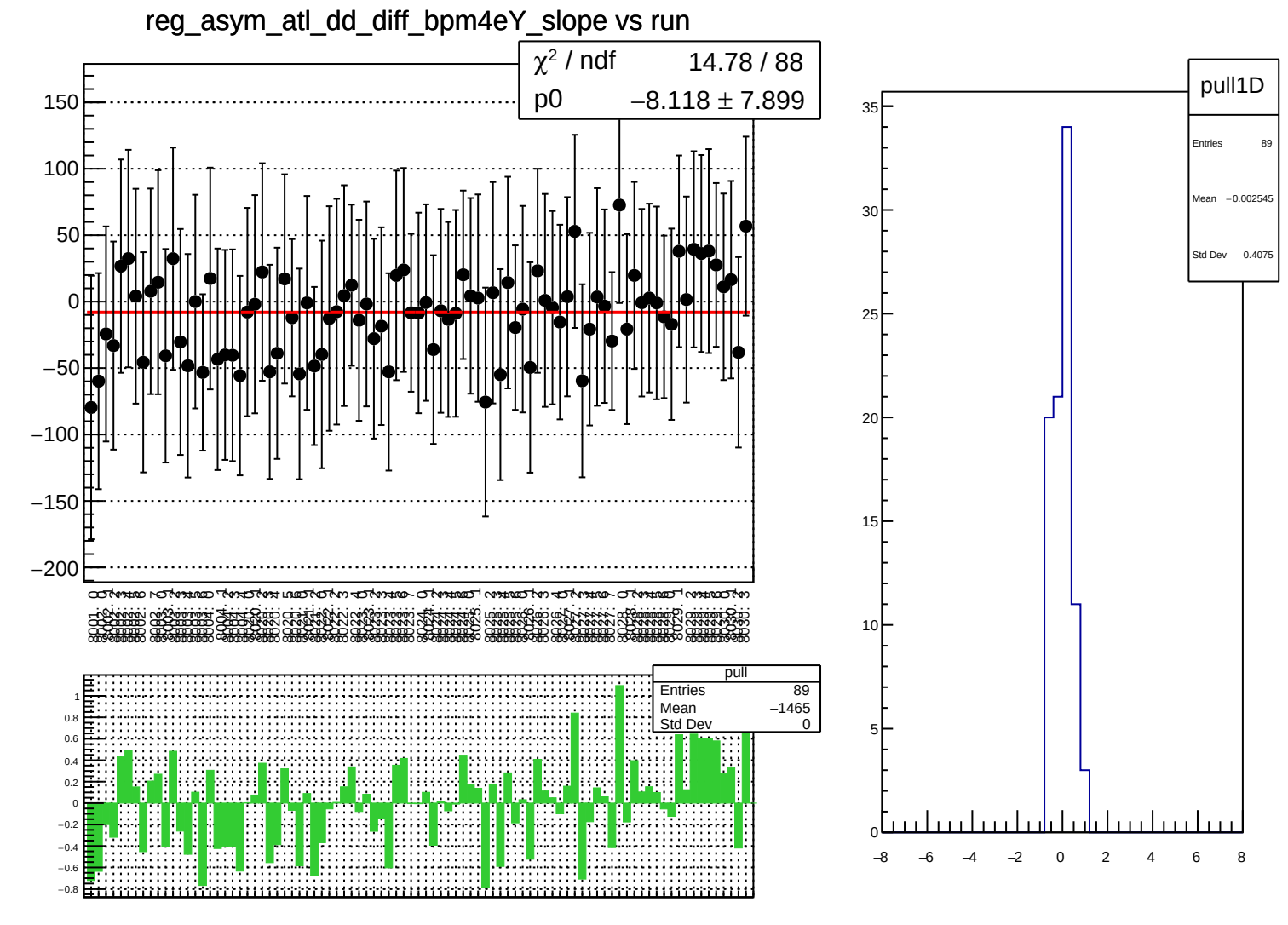

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 89.79 / 88
p0 232 ± 4.657
pull
Entries 89
Mean −65.15
Std Dev 0
pull1D
Entries 89
Mean −0.1616
Std Dev 0.9914

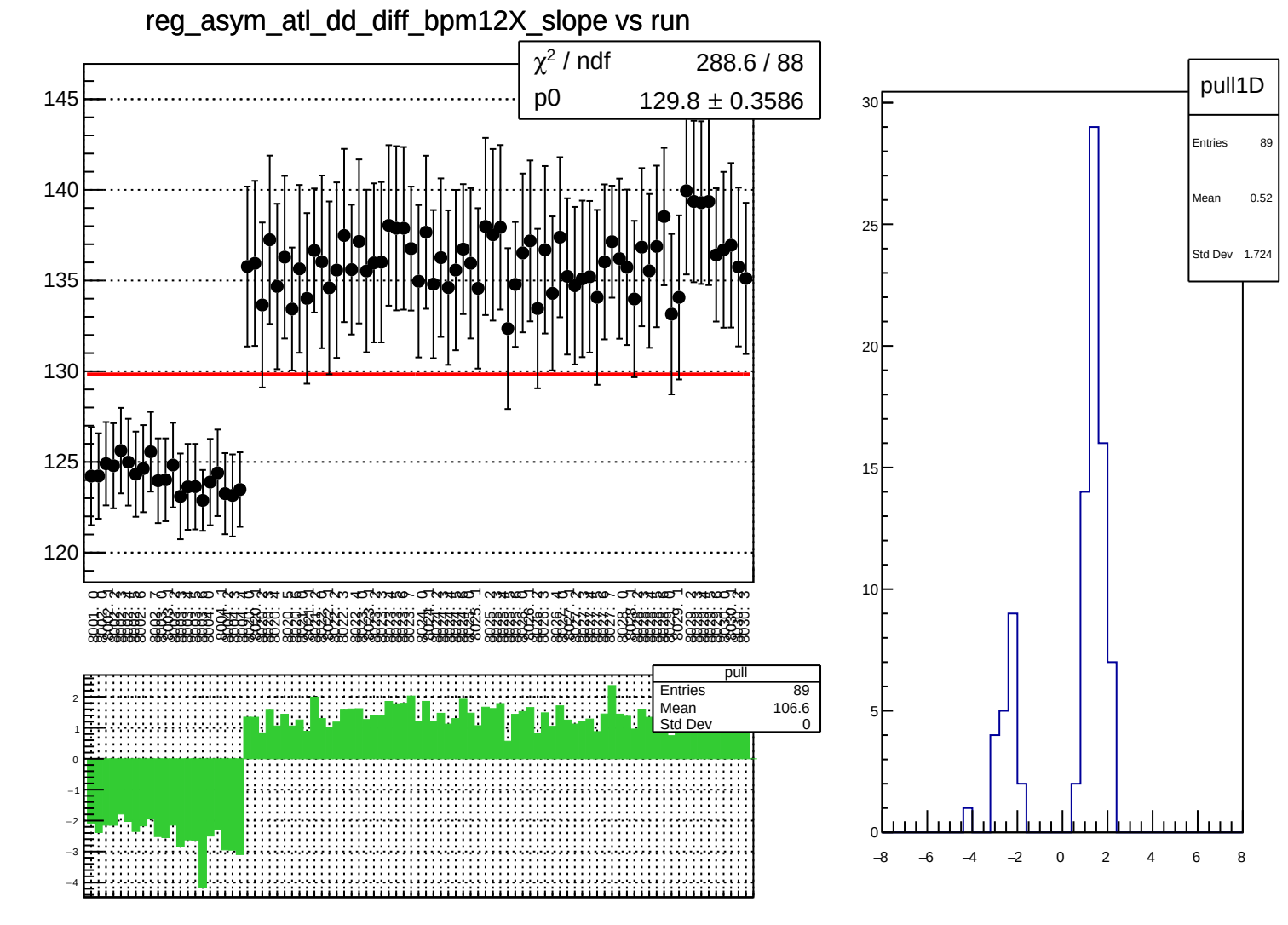

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.82 / 88
p0 −51.36 ± 7.353
pull
Entries 89
Mean 7843
Std Dev 0

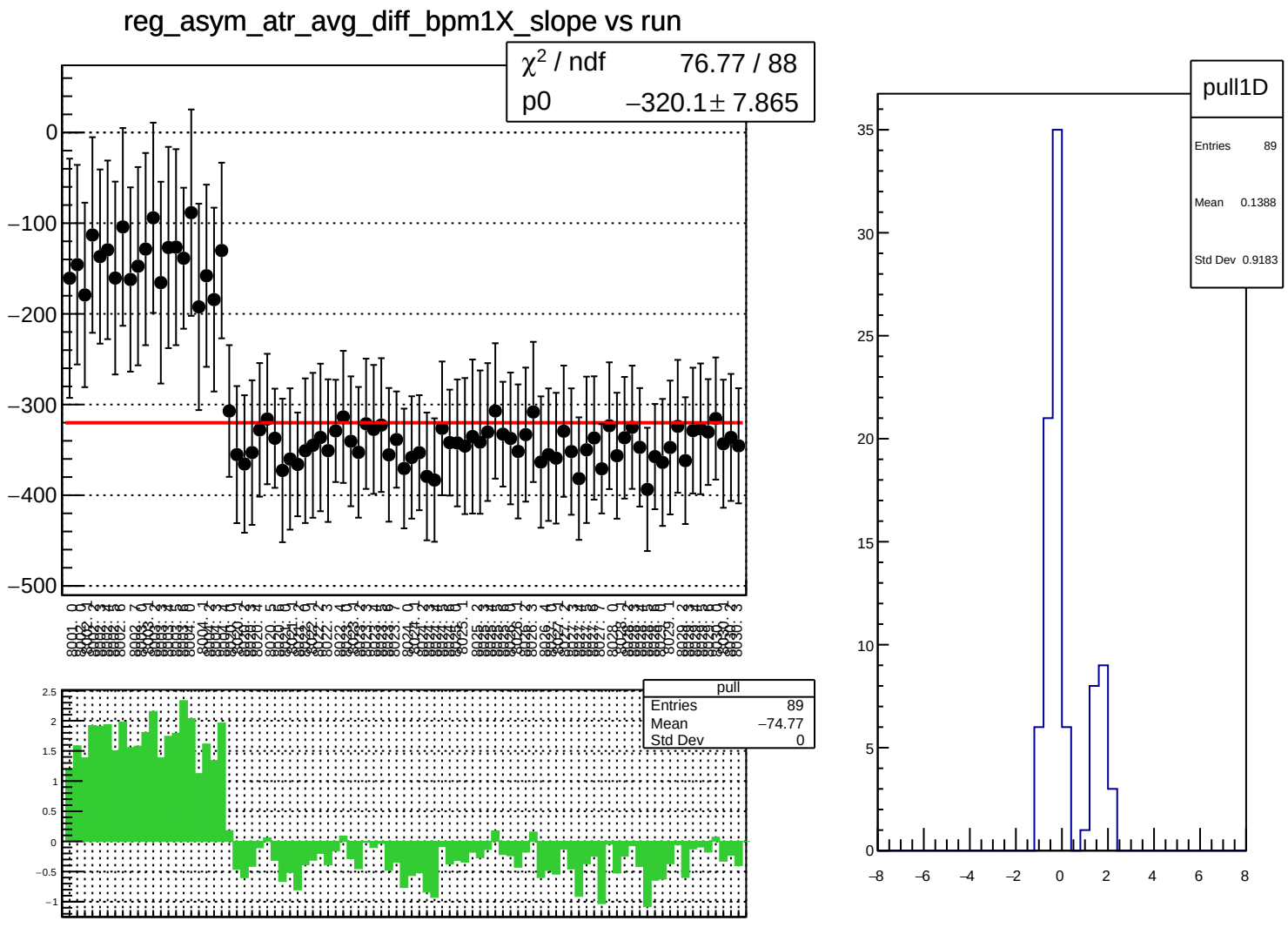

pull1D
Entries 89
Mean −0.0005181
Std Dev 0.4081

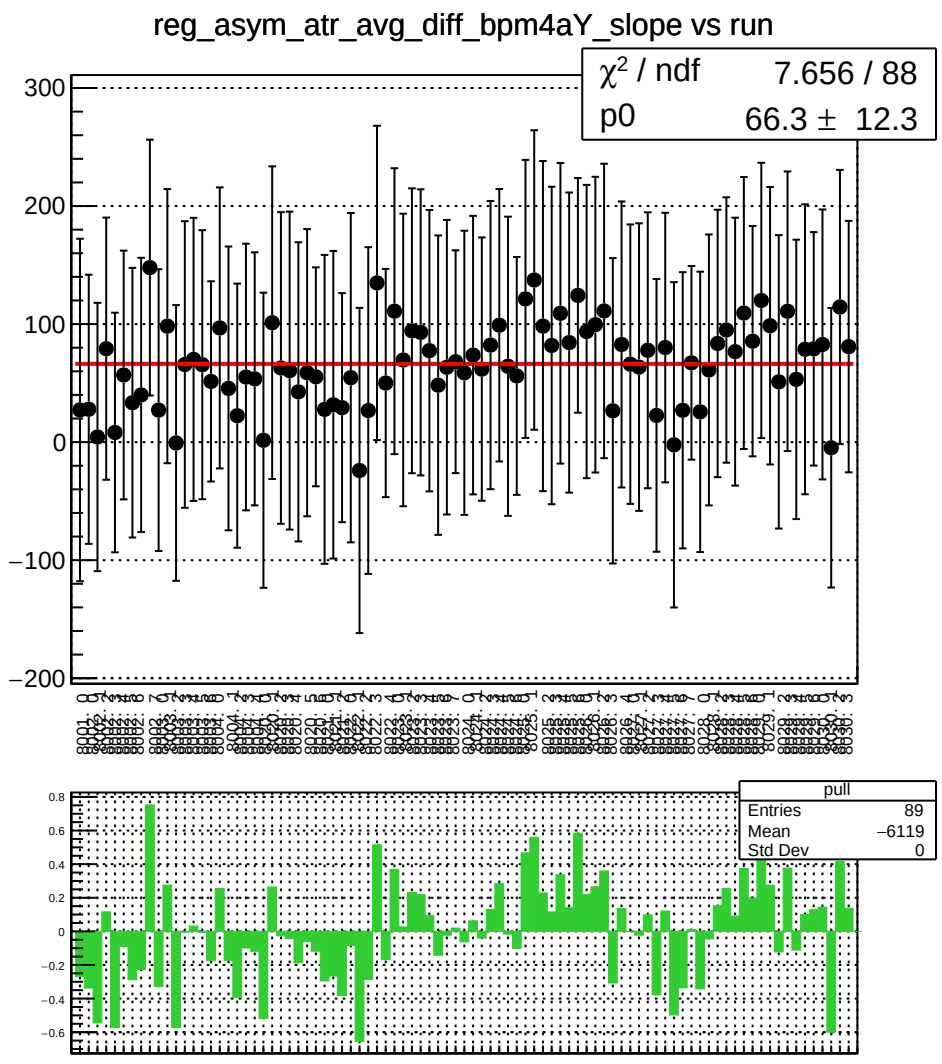

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 51.01 / 88
p0 −136.7 ± 4.869
pull
Entries 89
Mean −105.8
Std Dev 0

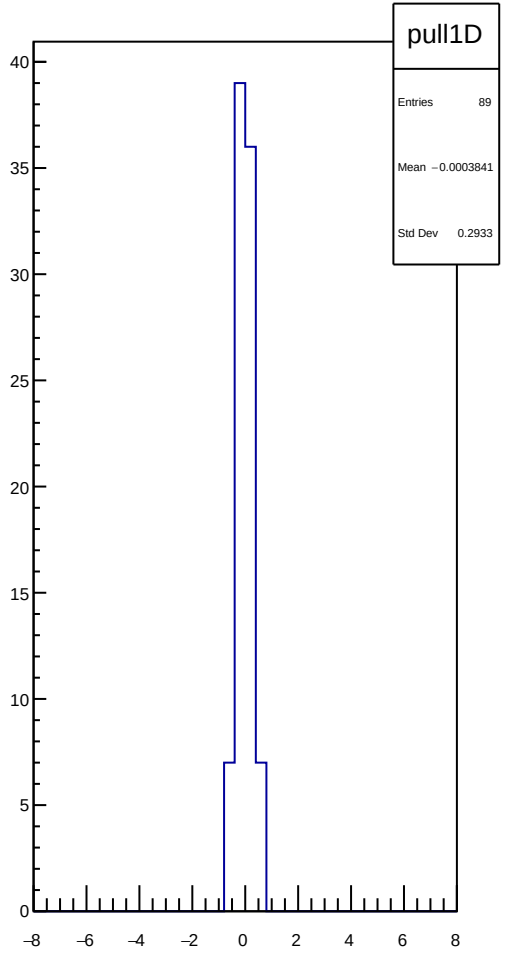

pull1D
Entries 89
Mean 0.08464
Std Dev 0.7523

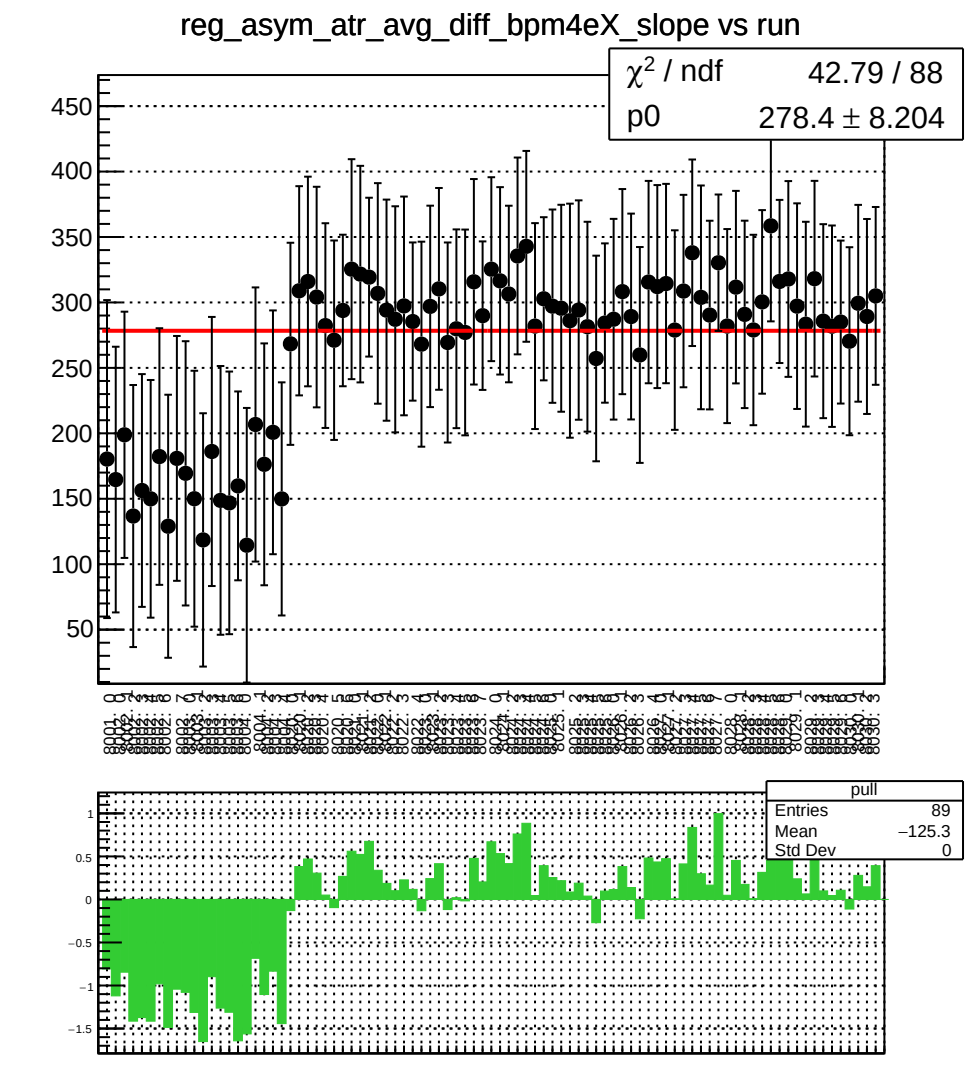

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.78 / 88
p0 −8.118 ± 7.899
pull
Entries 89
Mean −1465
Std Dev 0
pull1D
Entries 89
Mean −0.002545
Std Dev 0.4075

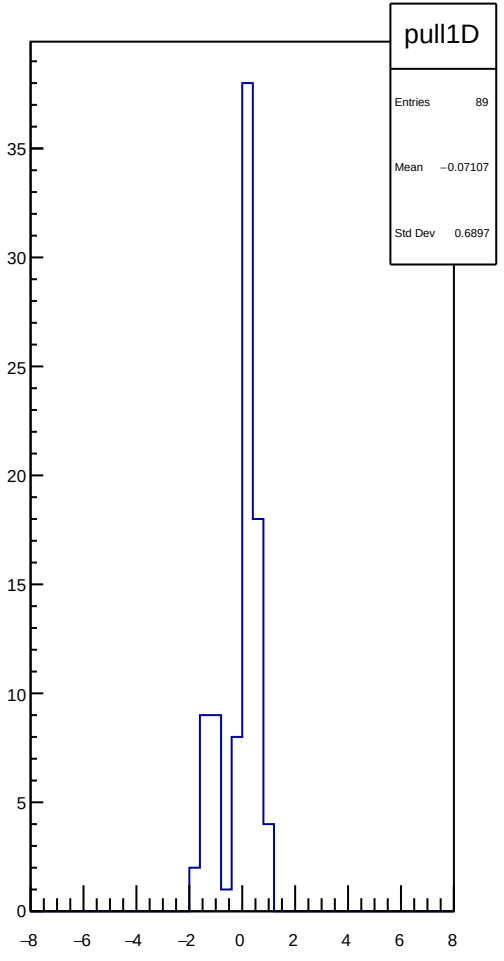

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 288.6 / 88
p0 129.8 ± 0.3586
145
140
135
130
125
120
pull
Entries 89
Mean 106.6
Std Dev 0
2
1
0
−1
−2
−3
−4
pull1D
Entries 89
Mean 0.52
Std Dev 1.724
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

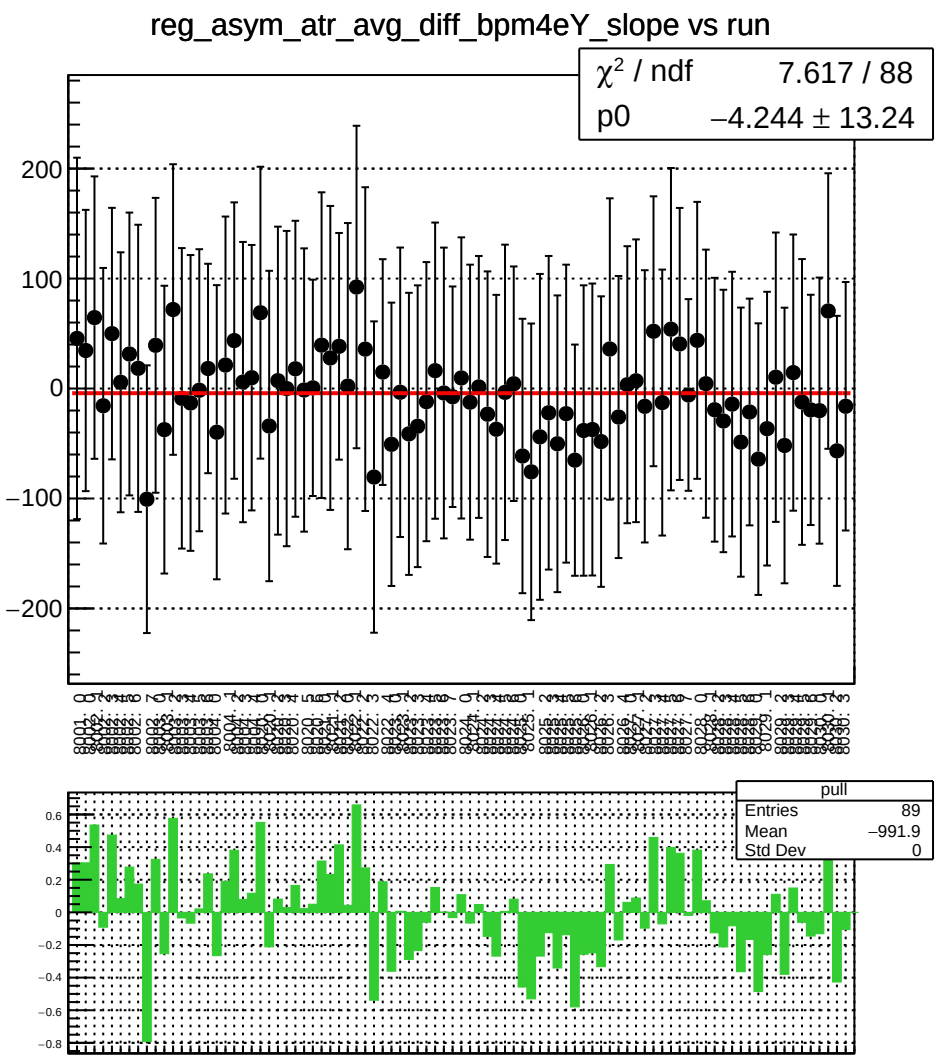

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 76.77 / 88
p0 −320.1± 7.865
pull
Entries 89
Mean −74.77
Std Dev 0
pull1D
Entries 89
Mean 0.1388
Std Dev 0.9183

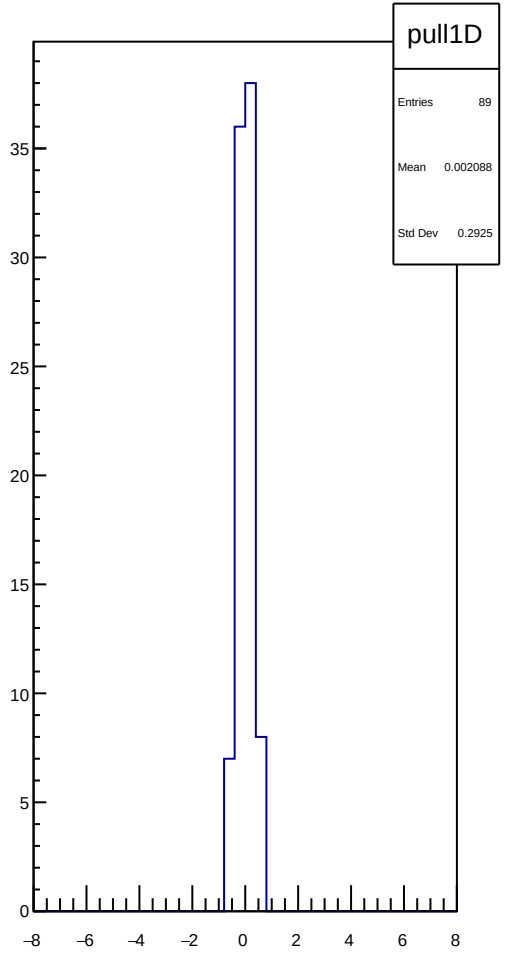

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.656 / 88
p0 66.3 ± 12.3
pull
Entries 89
Mean −6119
Std Dev 0

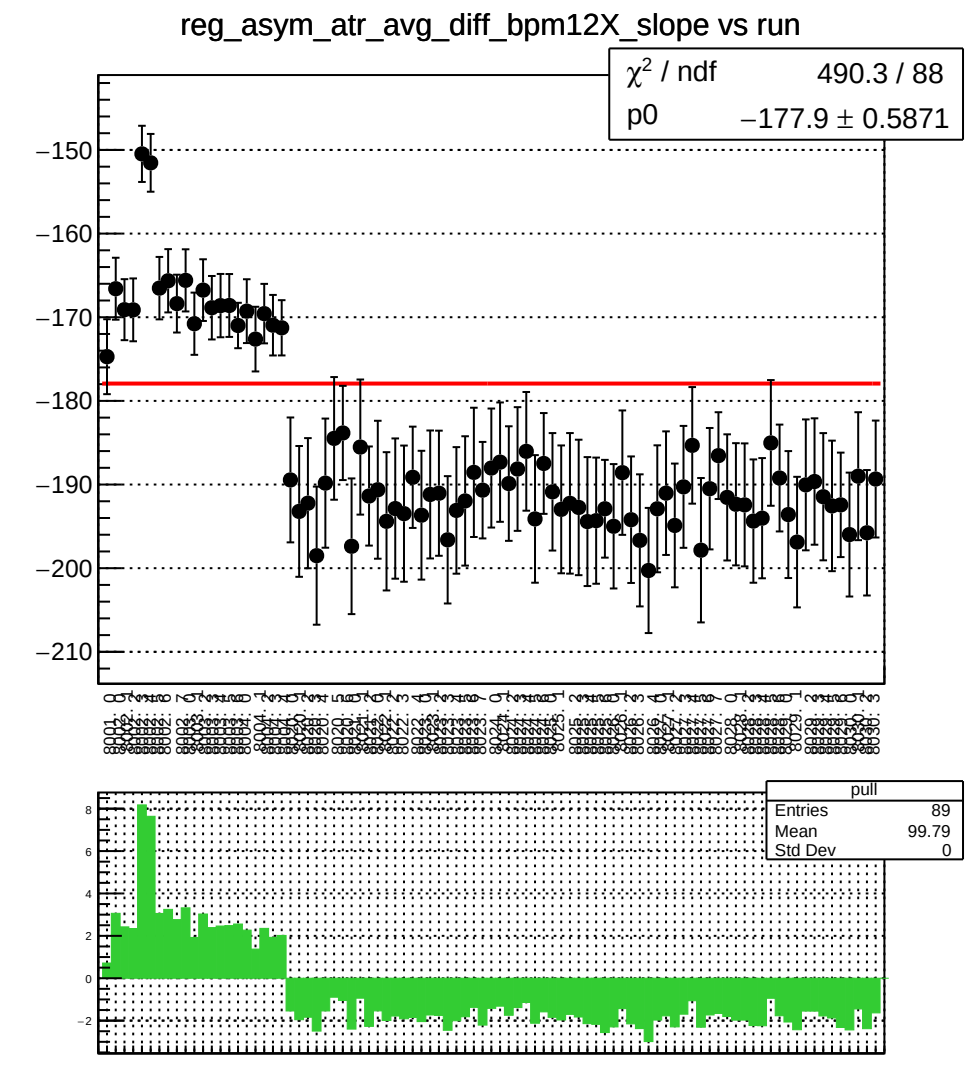

pull1D
Entries 89
Mean −0.0003841
Std Dev 0.2933

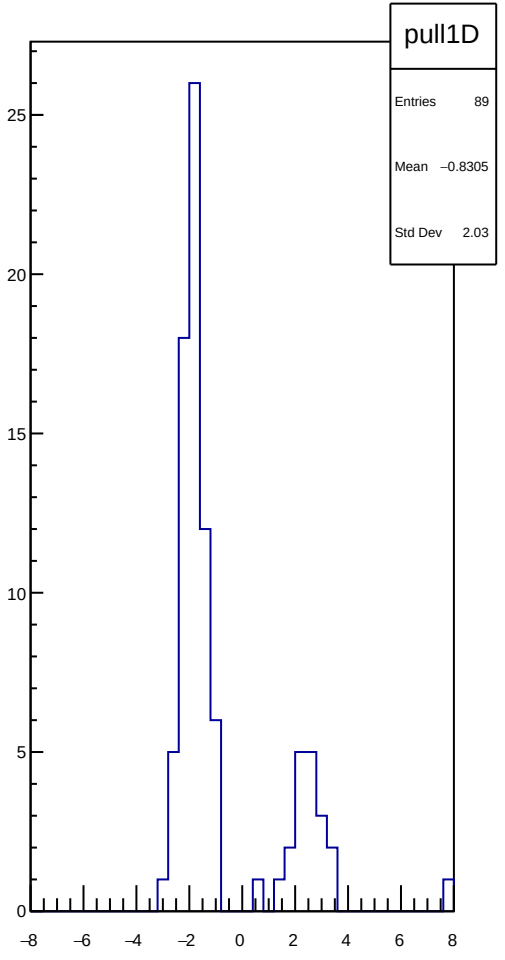

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 42.79 / 88
p0 278.4 ± 8.204
pull
Entries 89
Mean −125.3
Std Dev 0

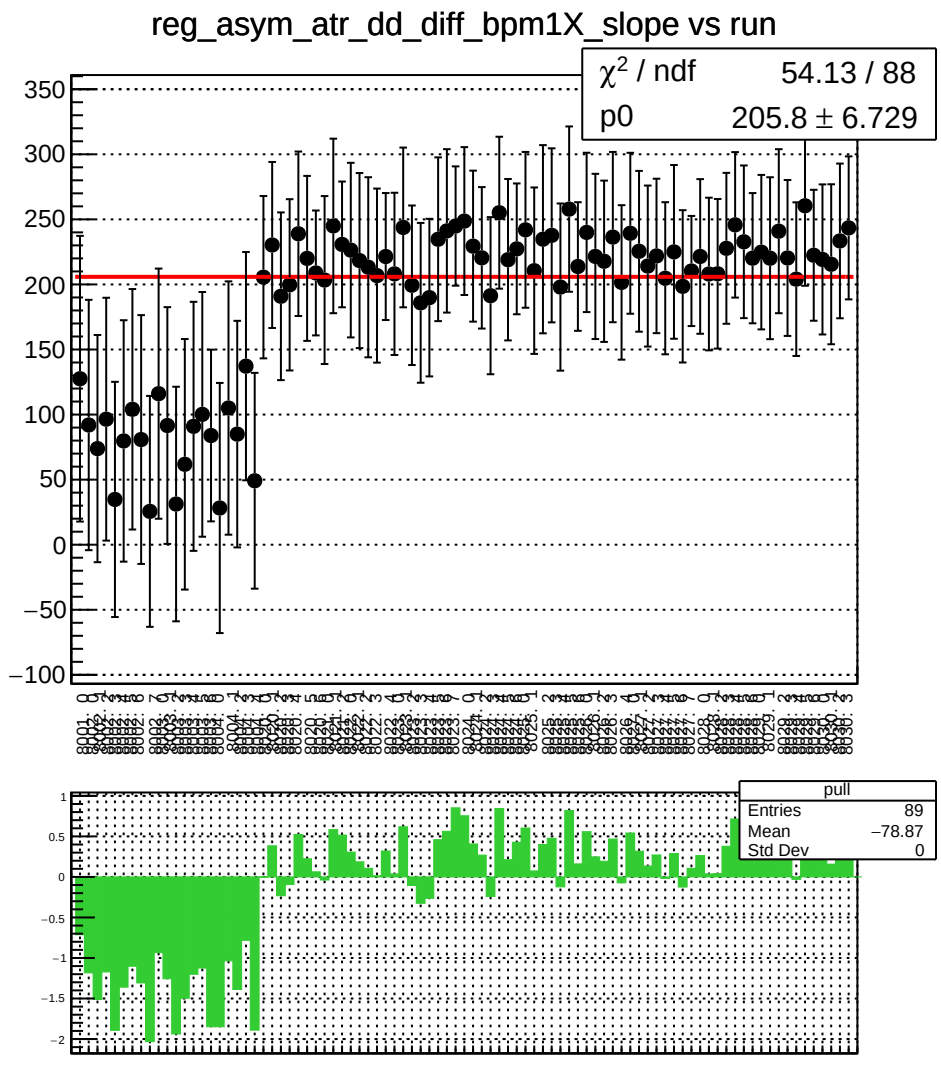

pull1D
Entries 89
Mean −0.07107
Std Dev 0.6897

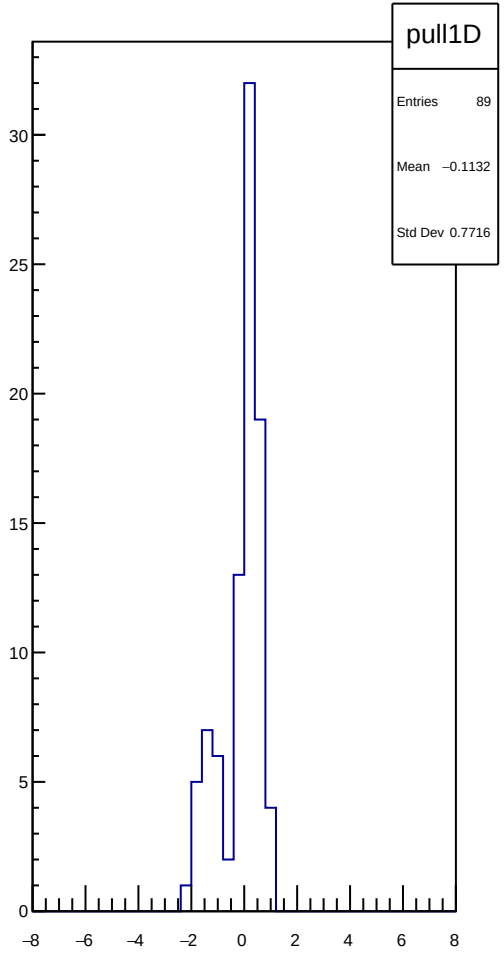

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.617 / 88
p0 −4.244 ± 13.24
200
100
0
−100
−200
pull
Entries 89
Mean −991.9
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

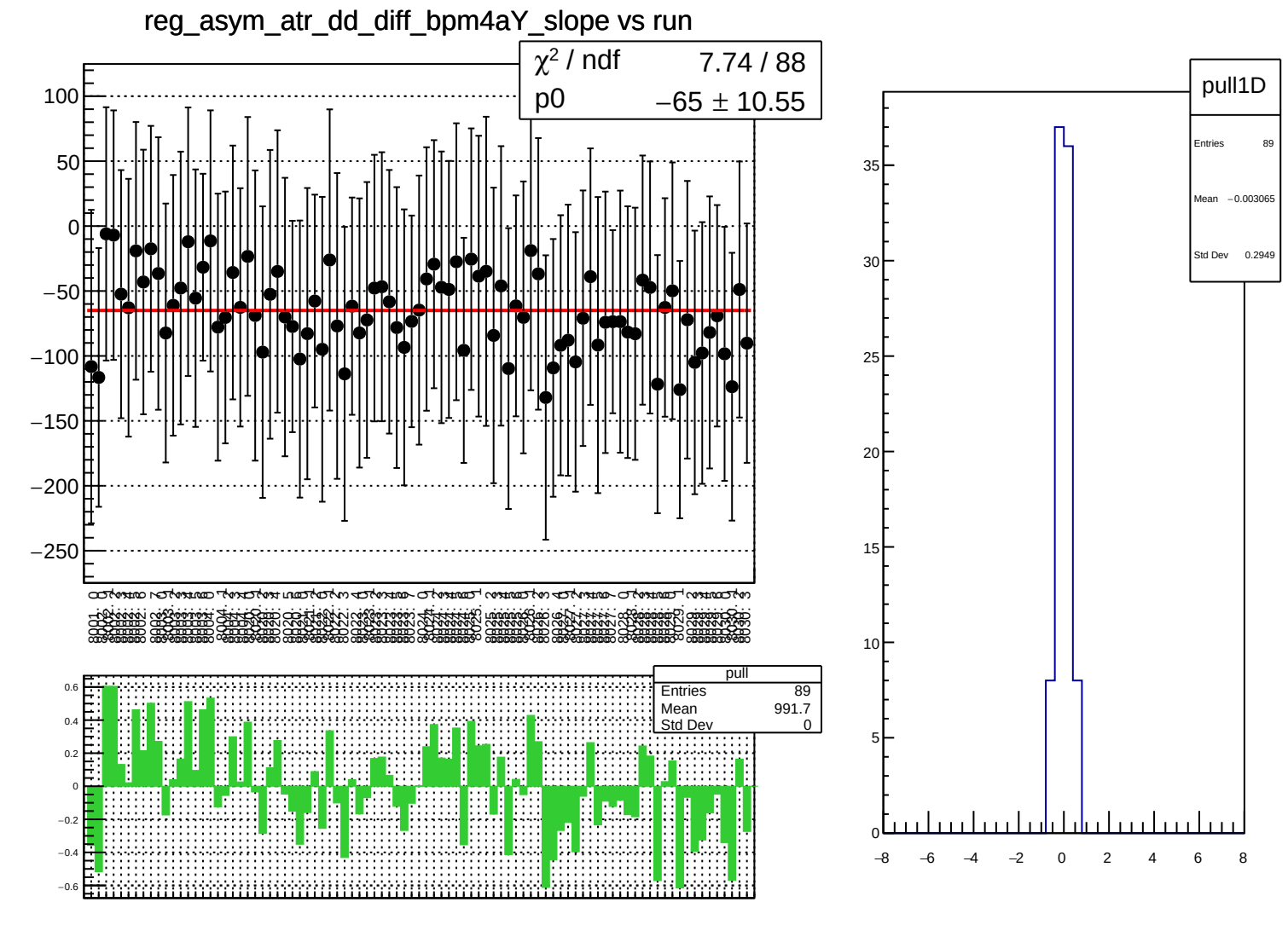

pull1D
Entries 89
Mean 0.002088
Std Dev 0.2925
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

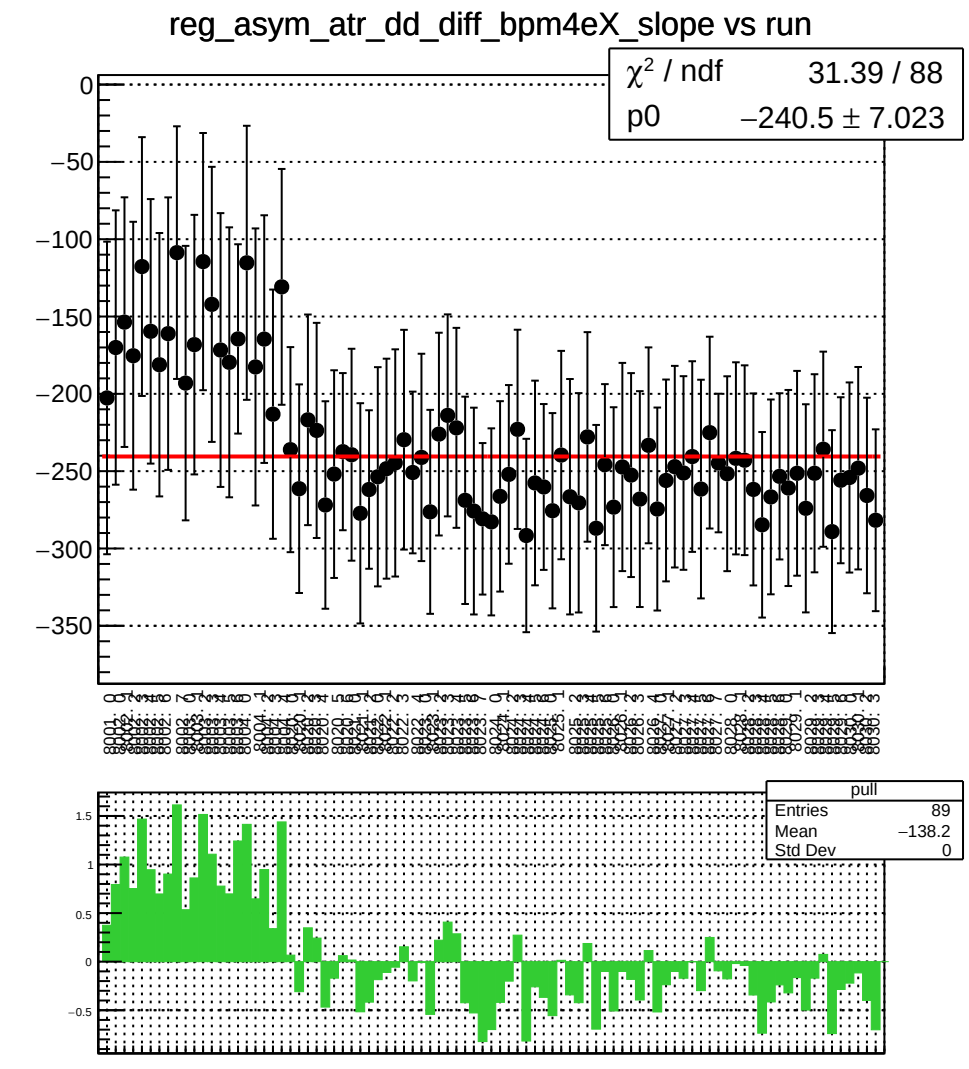

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 490.3 / 88
p0 −177.9 ± 0.5871
pull
Entries 89
Mean 99.79
Std Dev 0

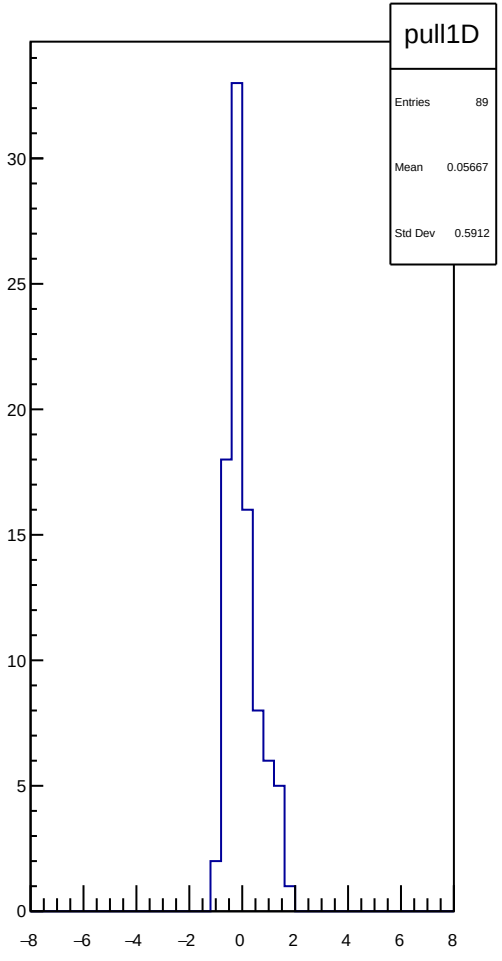

pull1D
Entries 89
Mean −0.8305
Std Dev 2.03

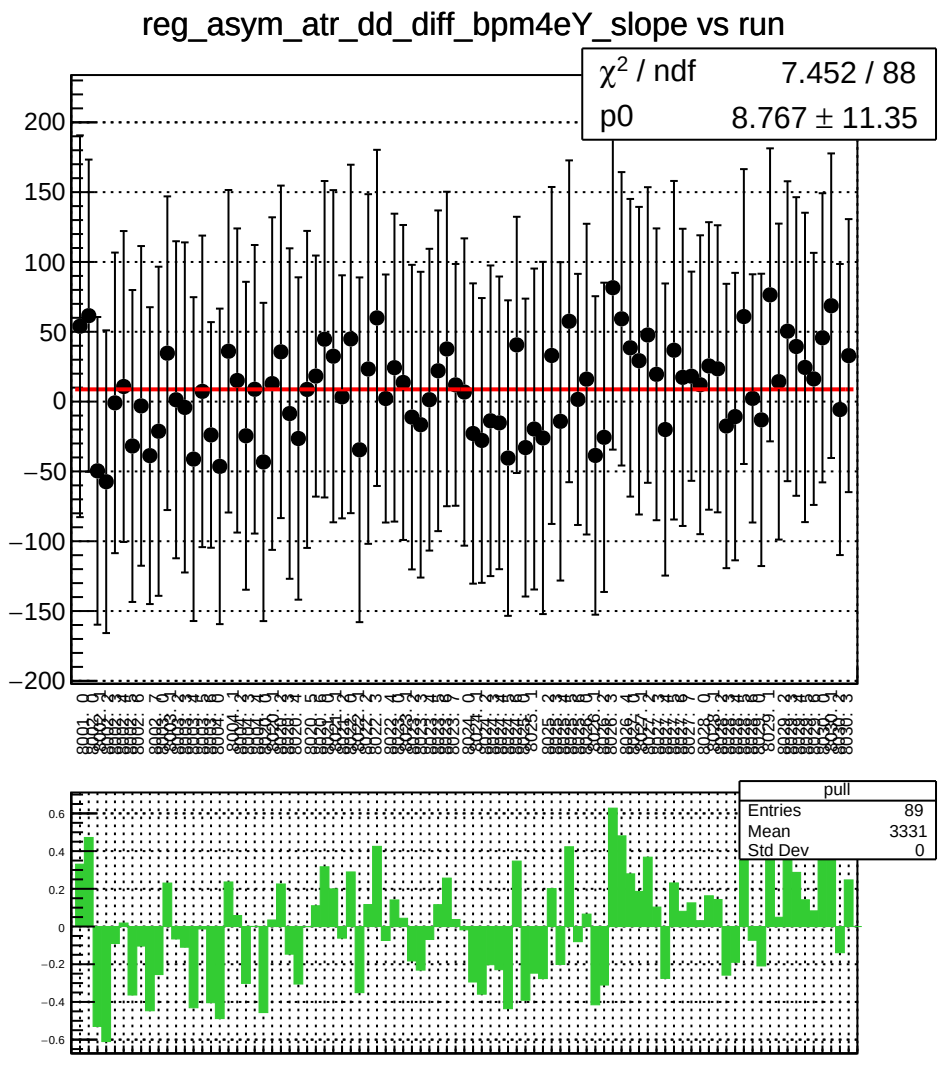

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 54.13 / 88
p0 205.8 ± 6.729
pull
Entries 89
Mean −78.87
Std Dev 0

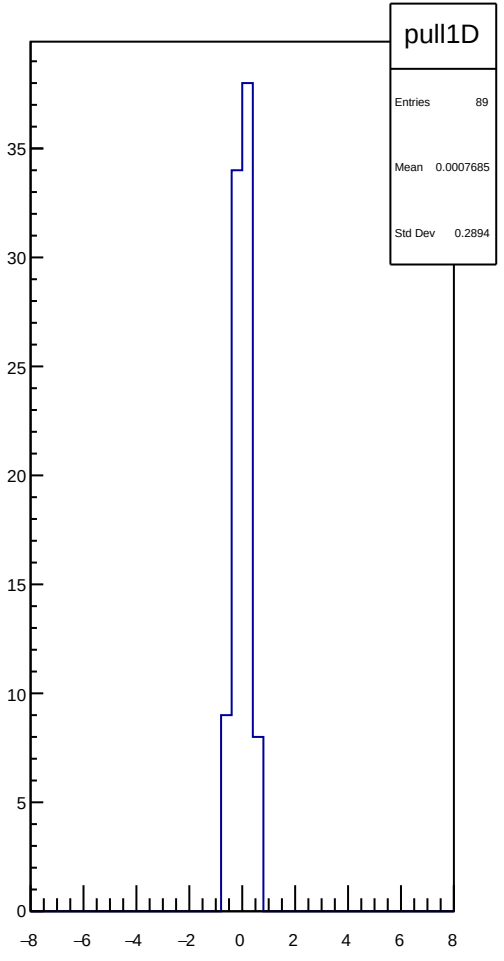

pull1D
Entries 89
Mean −0.1132
Std Dev 0.7716

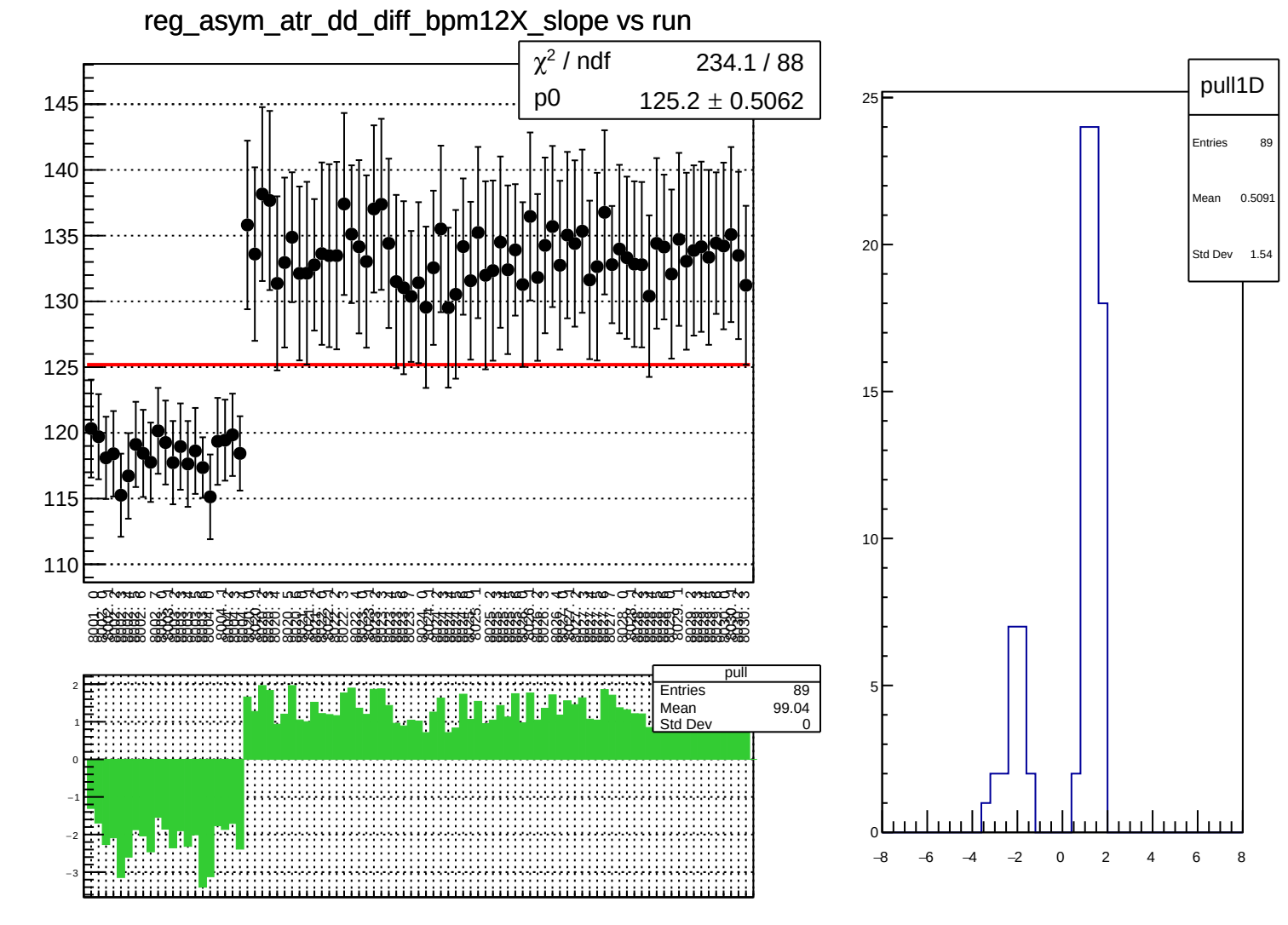

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.74 / 88
p0 −65 ± 10.55
pull
Entries 89
Mean 991.7
Std Dev 0
pull1D
Entries 89
Mean −0.003065
Std Dev 0.2949

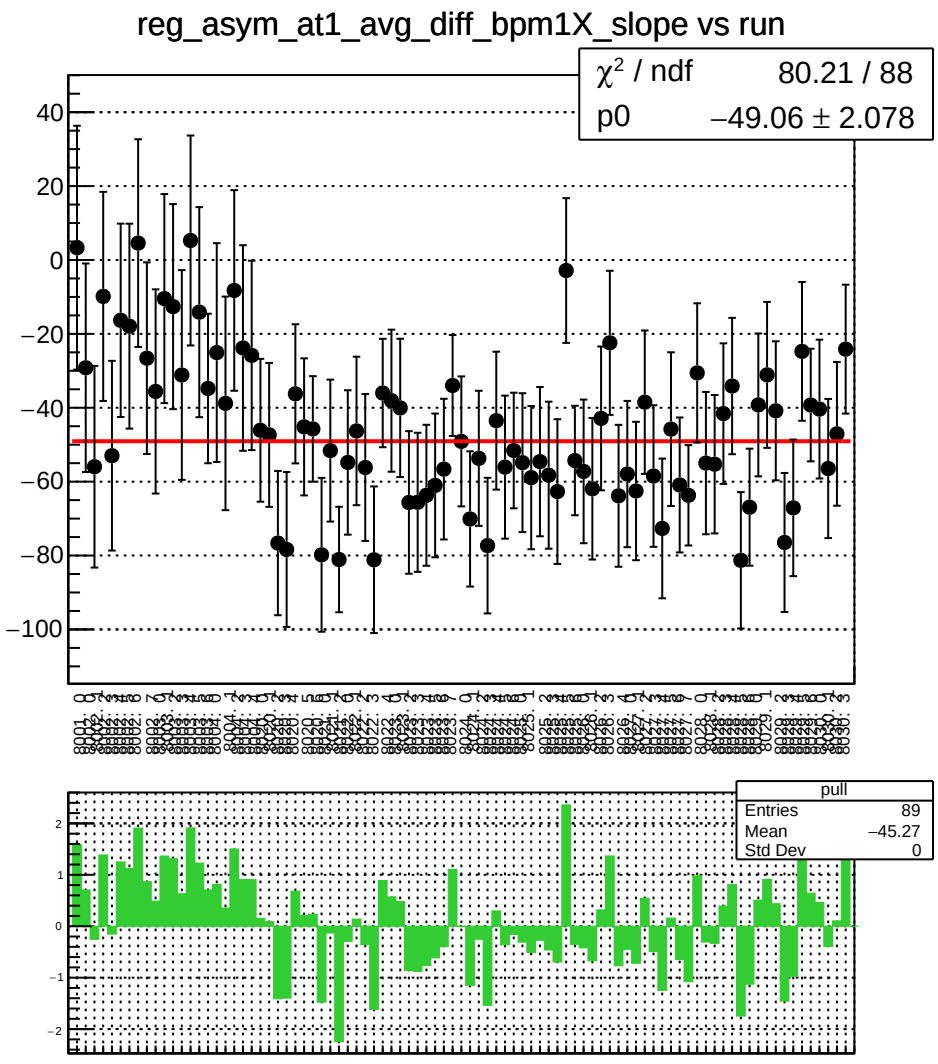

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 31.39 / 88
p0 −240.5 ± 7.023
pull
Entries 89
Mean −138.2
Std Dev 0

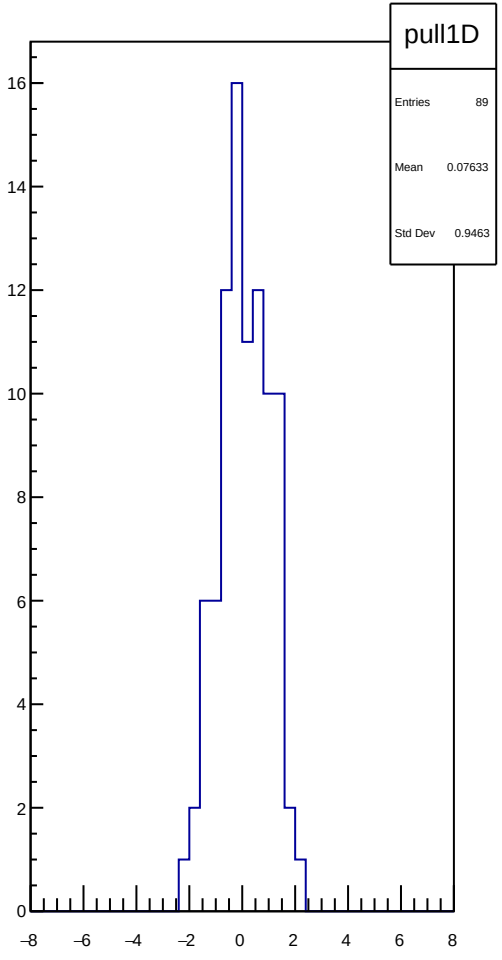

pull1D
Entries 89
Mean 0.05667
Std Dev 0.5912

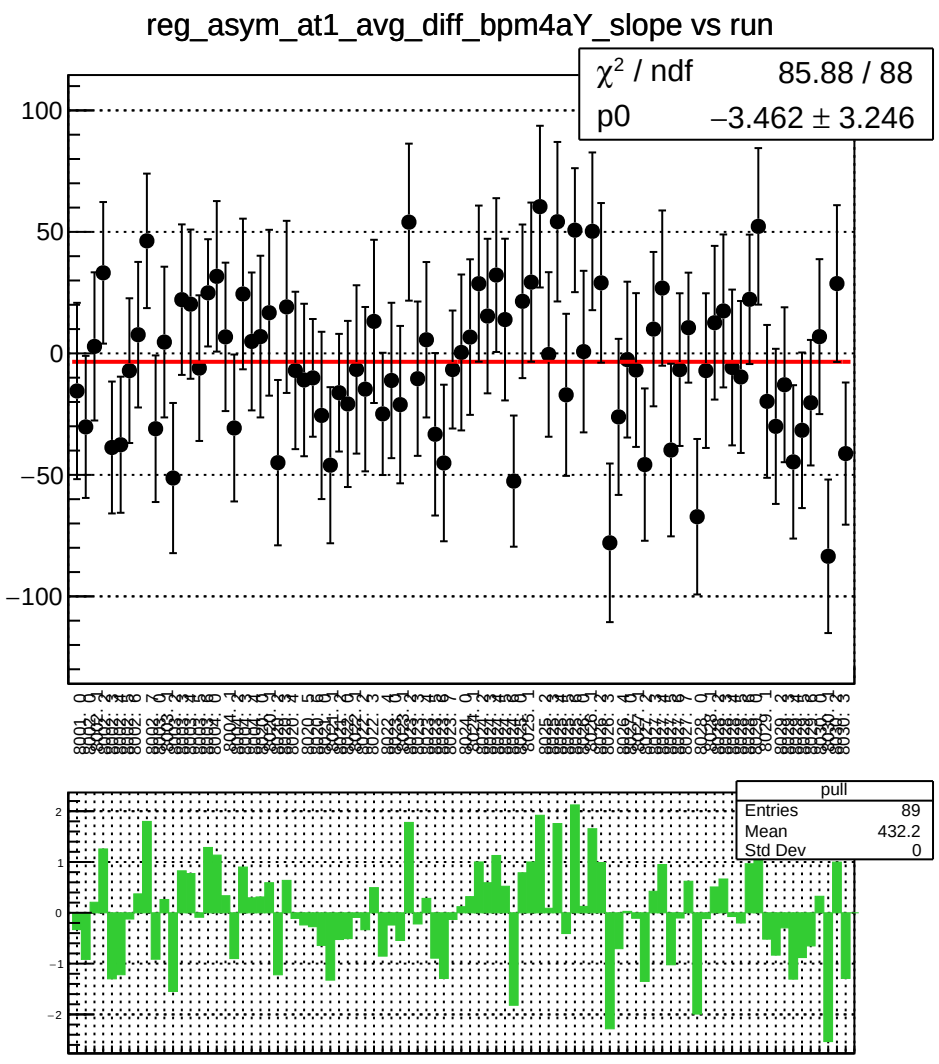

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.452 / 88
p0 8.767 ± 11.35
pull
Entries 89
Mean 3331
Std Dev 0

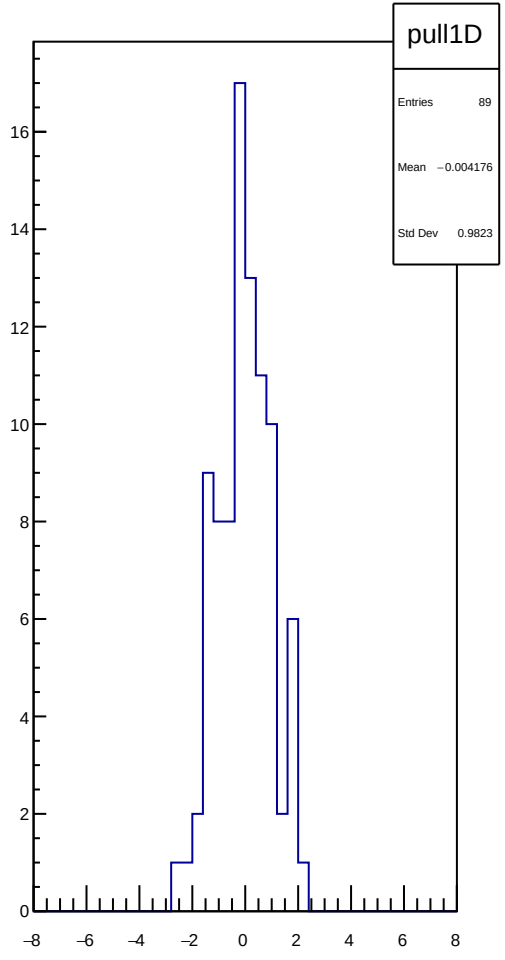

pull1D
Entries 89
Mean 0.0007685
Std Dev 0.2894

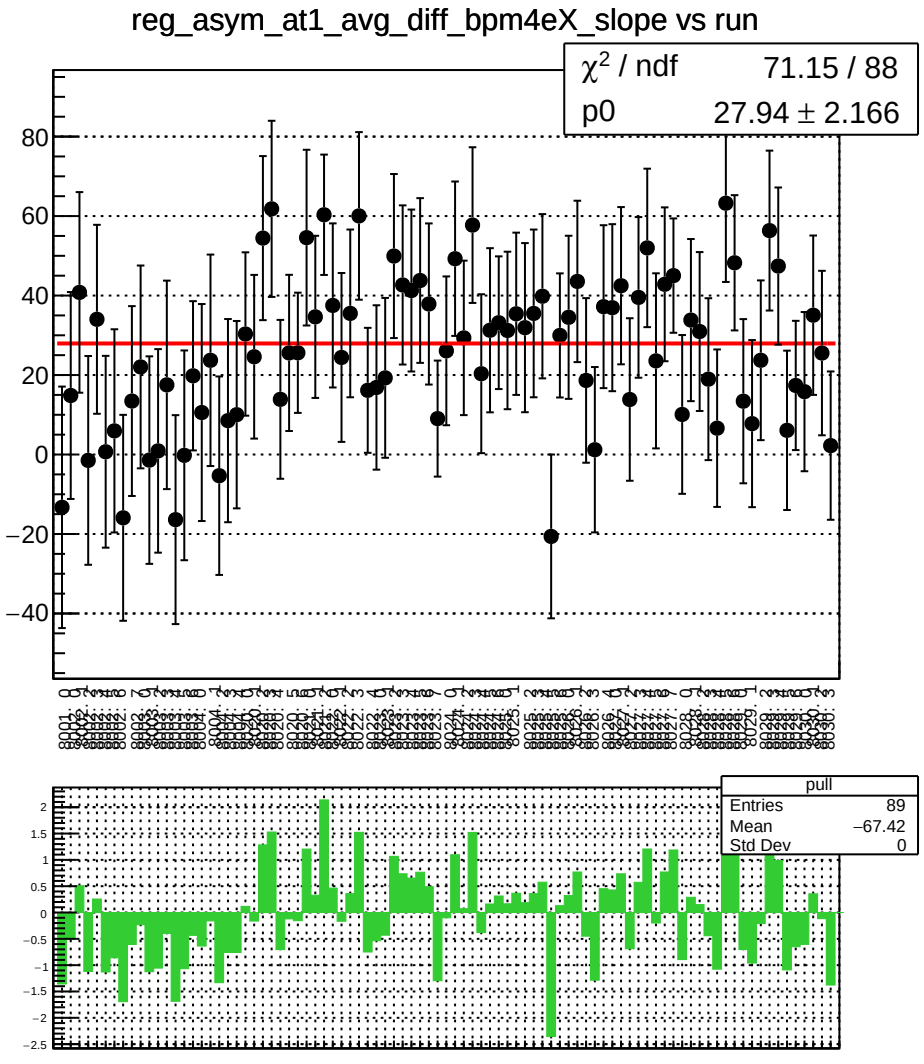

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 234.1 / 88
p0 125.2 ± 0.5062
pull
Entries 89
Mean 99.04
Std Dev 0
pull1D
Entries 89
Mean 0.5091
Std Dev 1.54

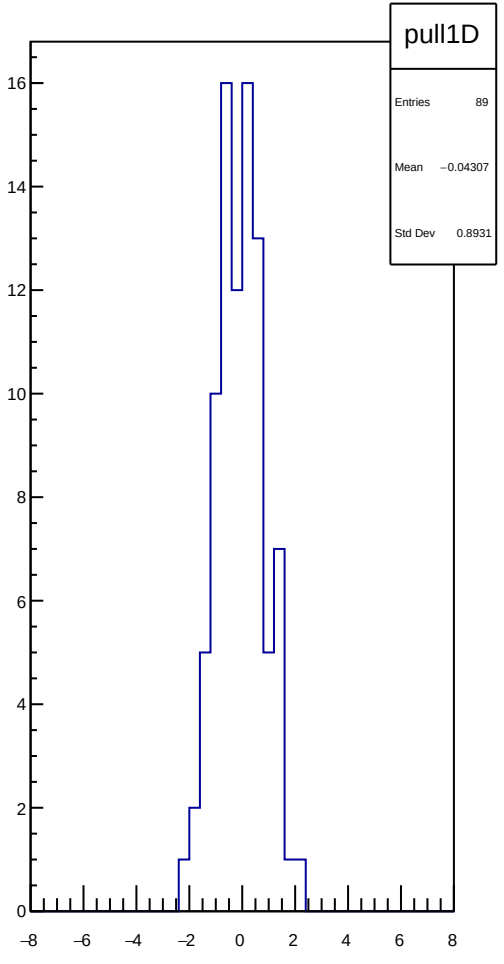

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 80.21 / 88
p0 −49.06 ± 2.078
pull
Entries 89
Mean −45.27
Std Dev 0

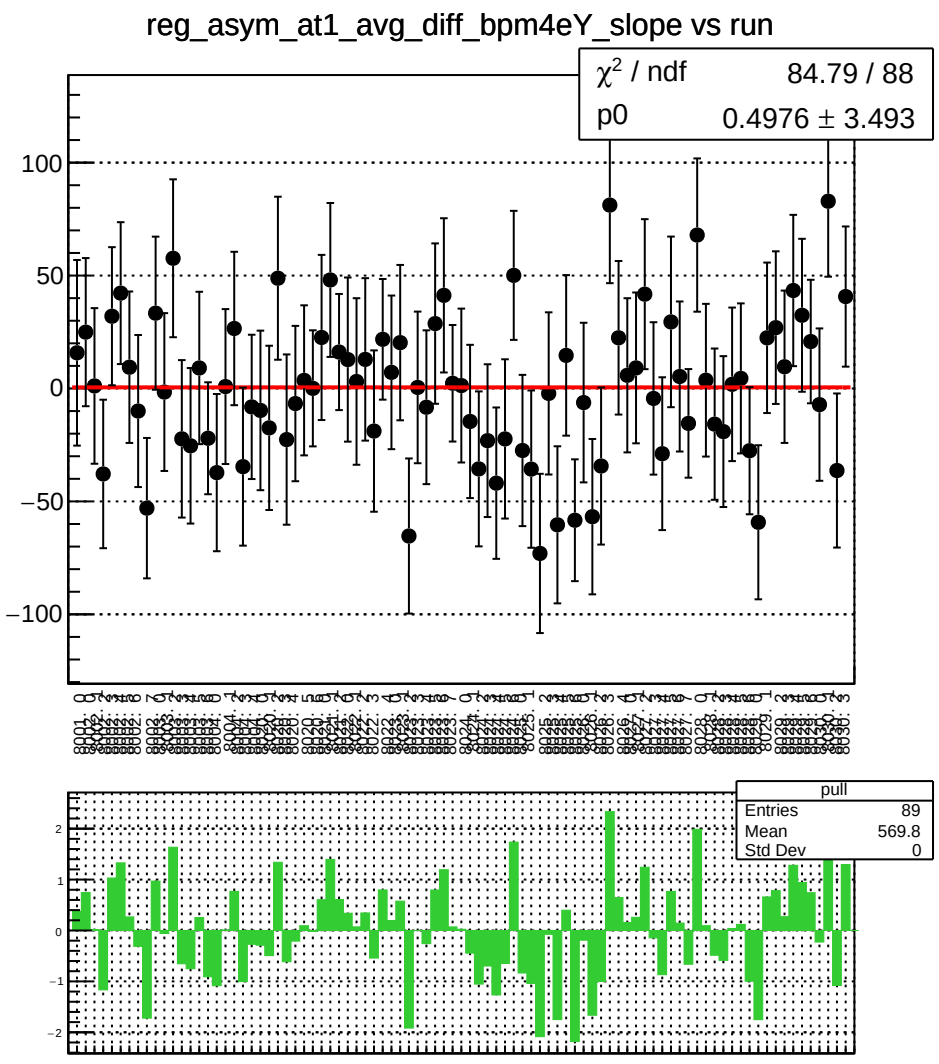

pull1D
Entries 89
Mean 0.07633
Std Dev 0.9463

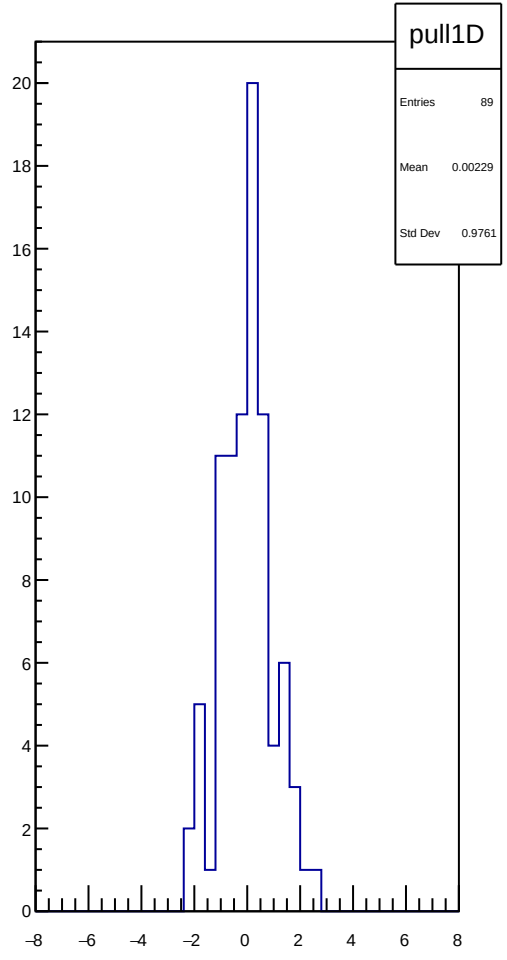

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 85.88 / 88
p0 −3.462 ± 3.246
100
50
0
−50
−100
pull
Entries 89
Mean 432.2
Std Dev 0
2
1
0
−1
−2

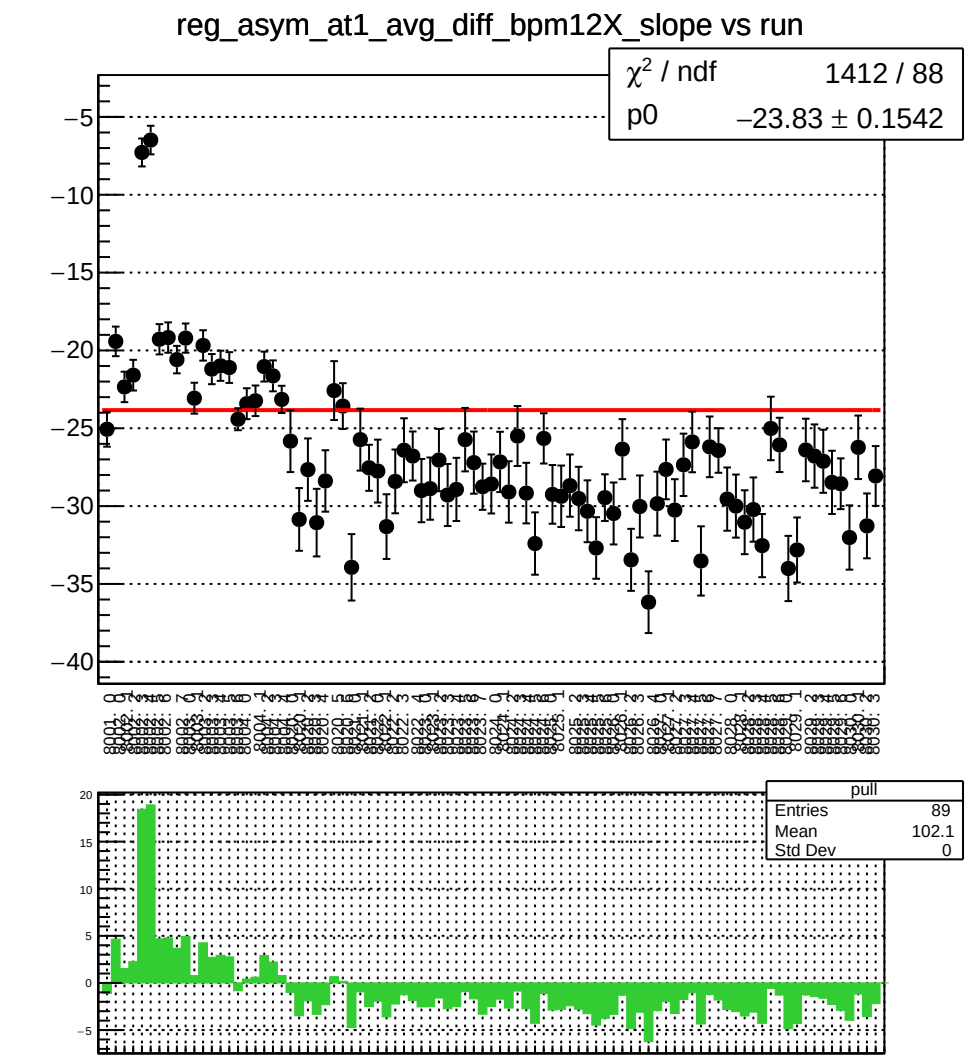

pull1D
Entries 89
Mean −0.004176
Std Dev 0.9823
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

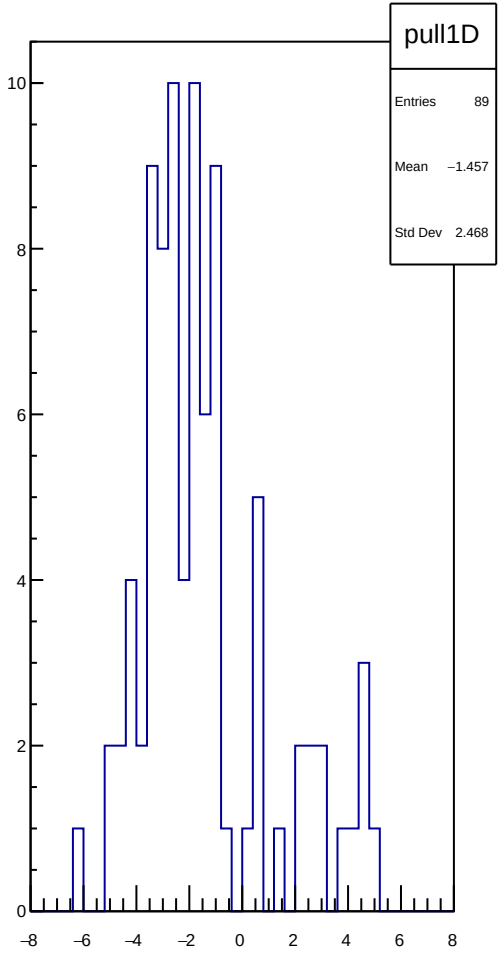

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 71.15 / 88
p0 27.94 ± 2.166
pull
Entries 89
Mean −67.42
Std Dev 0

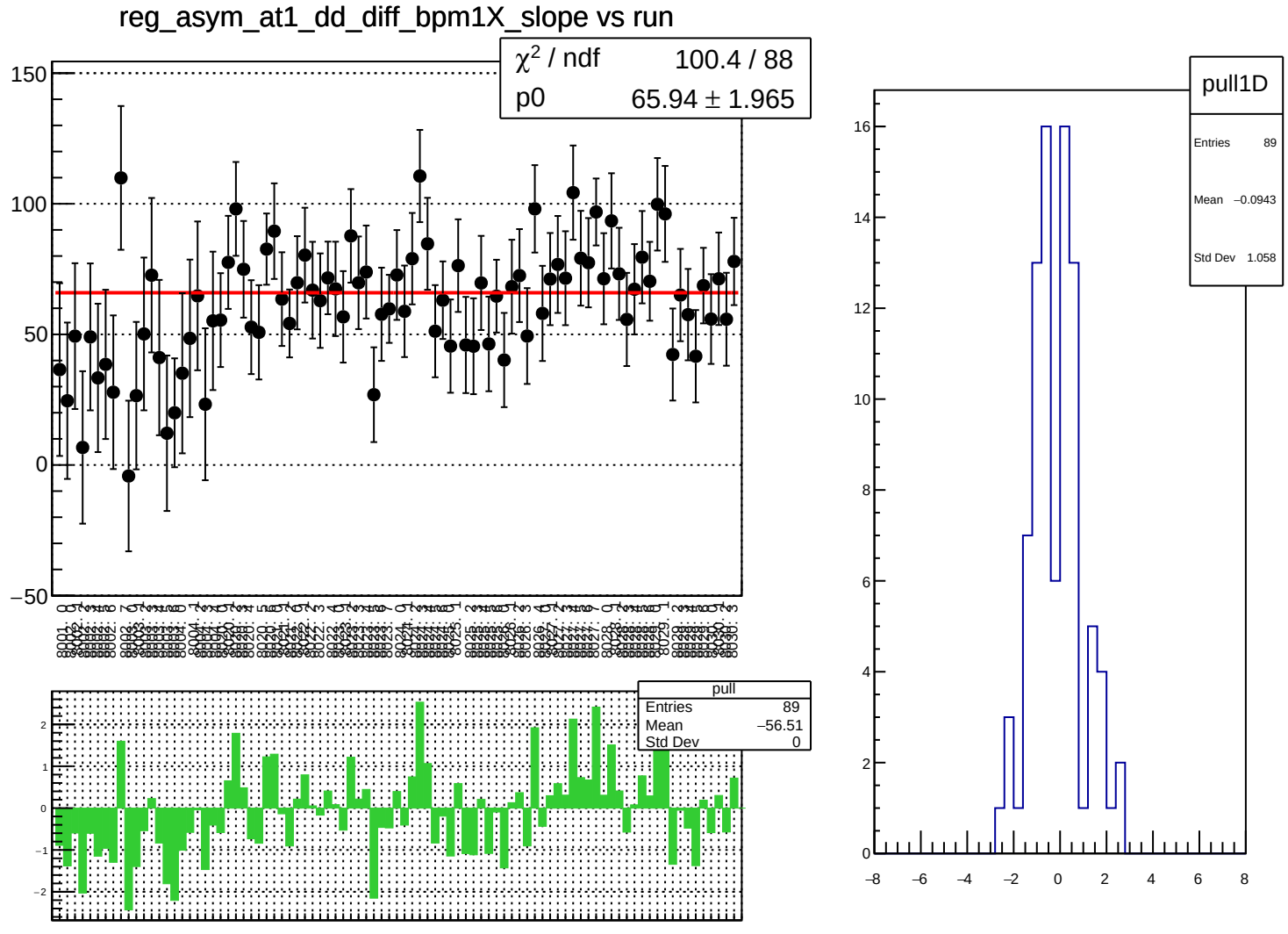

pull1D
Entries 89
Mean −0.04307
Std Dev 0.8931

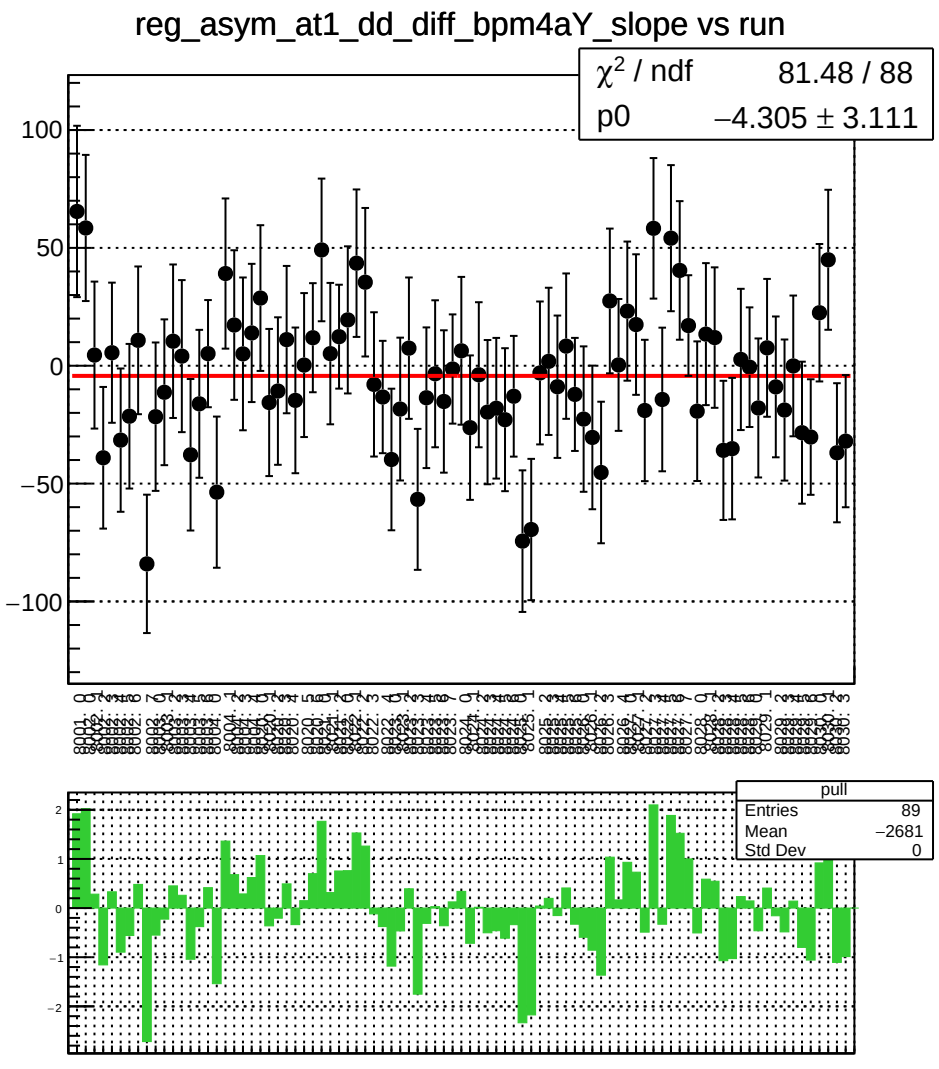

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 84.79 / 88
p0 0.4976 ± 3.493
100
50
0
−50
−100
pull
Entries 89
Mean 569.8
Std Dev 0
2
1
0
−1
−2

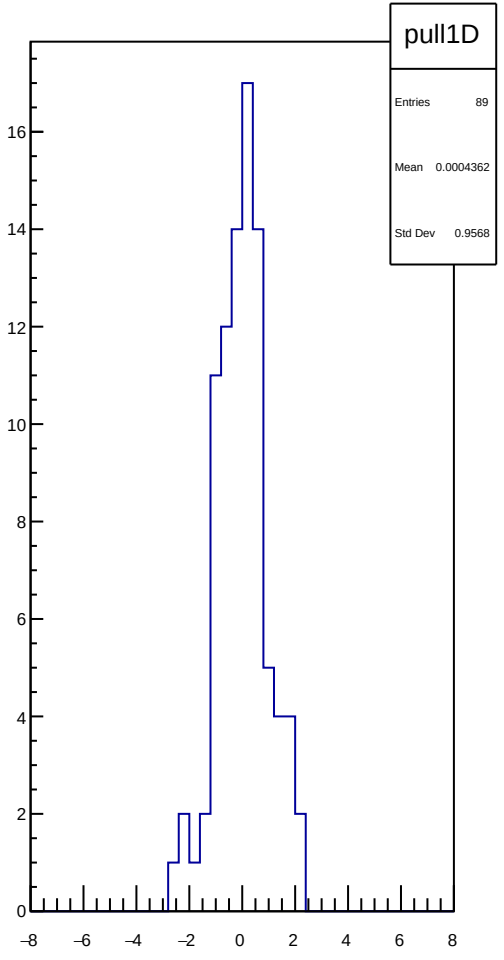

pull1D
Entries 89
Mean 0.00229
Std Dev 0.9761
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

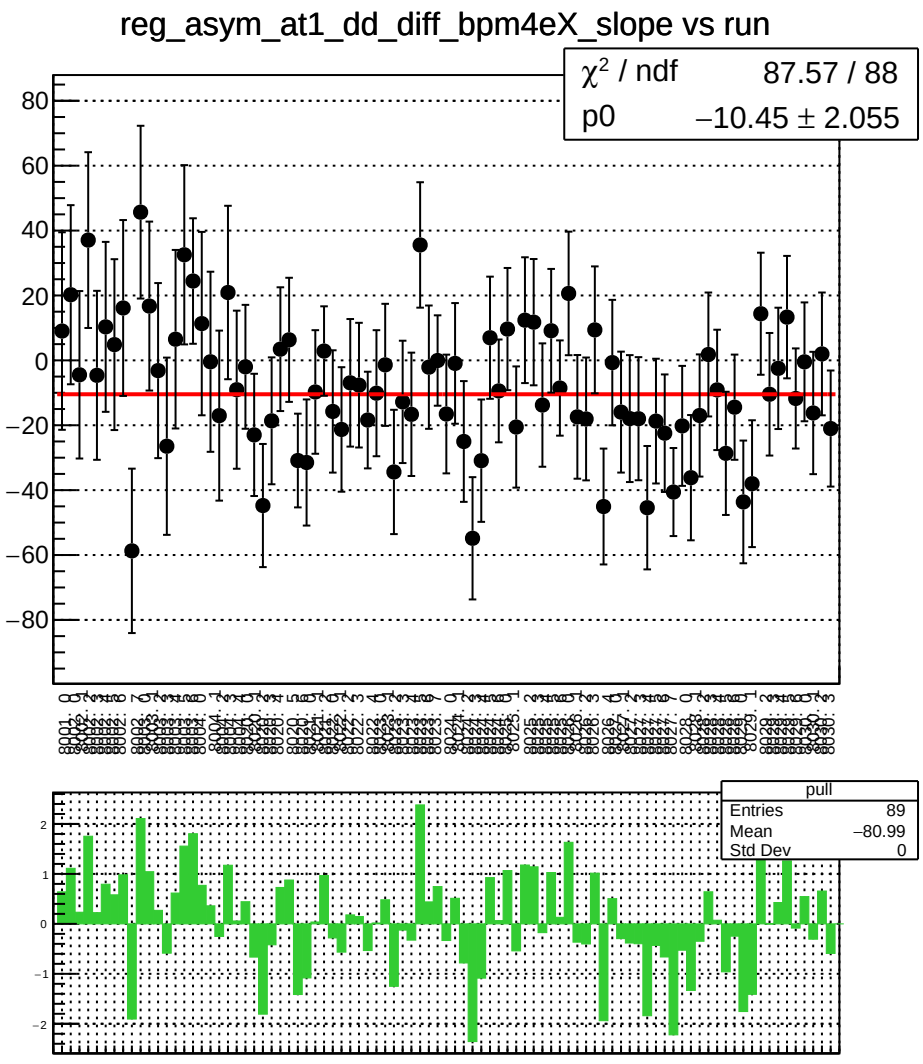

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 1412 / 88
p0 −23.83 ± 0.1542
pull
Entries 89
Mean 102.1
Std Dev 0

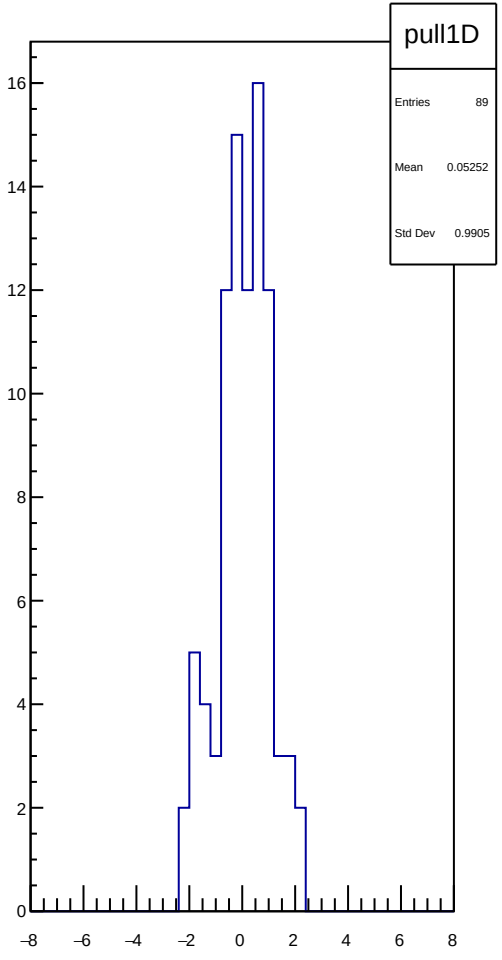

pull1D
Entries 89
Mean −1.457
Std Dev 2.468

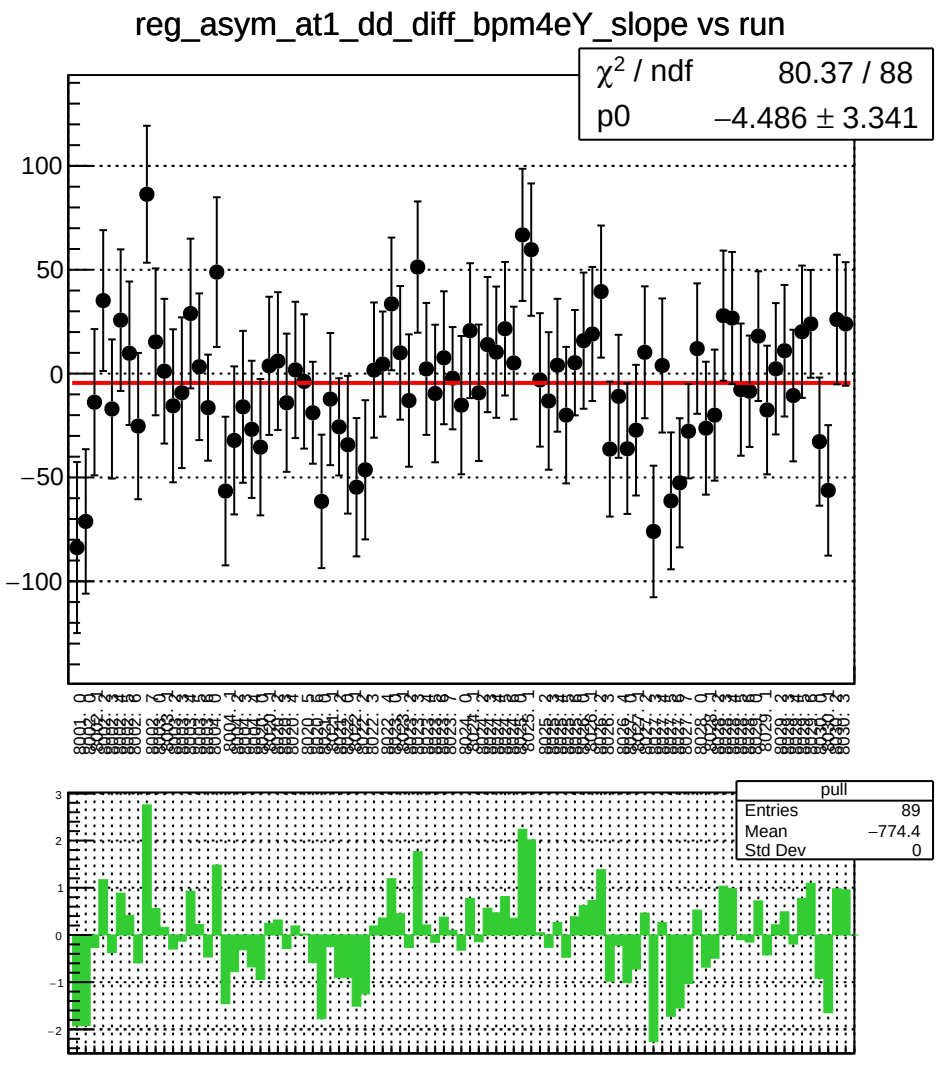

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 100.4 / 88
p0 65.94 ± 1.965
150
100
50
0
−50
pull
Entries 89
Mean −56.51
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.0943
Std Dev 1.058
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

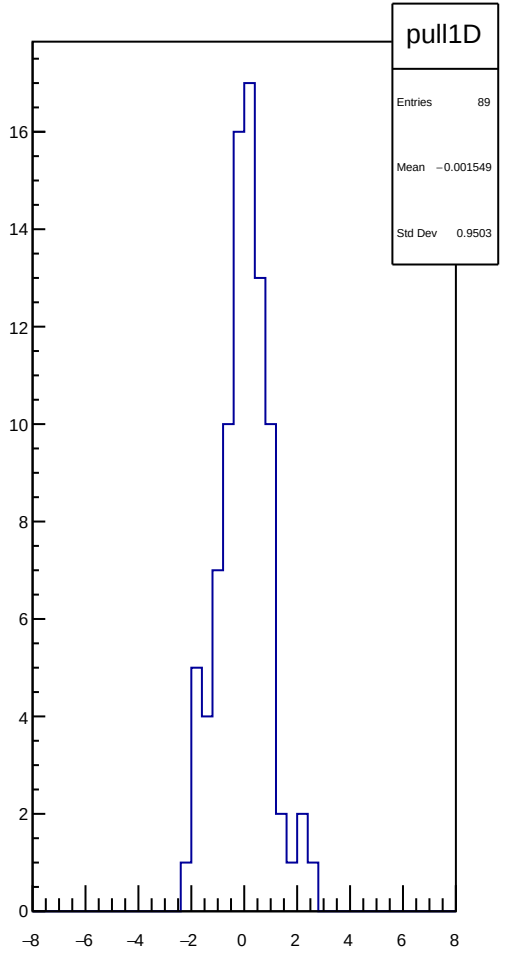

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 81.48 / 88
p0 −4.305 ± 3.111
100
50
0
−50
−100
pull
Entries 89
Mean −2681
Std Dev 0
2
1
0
−1
−2

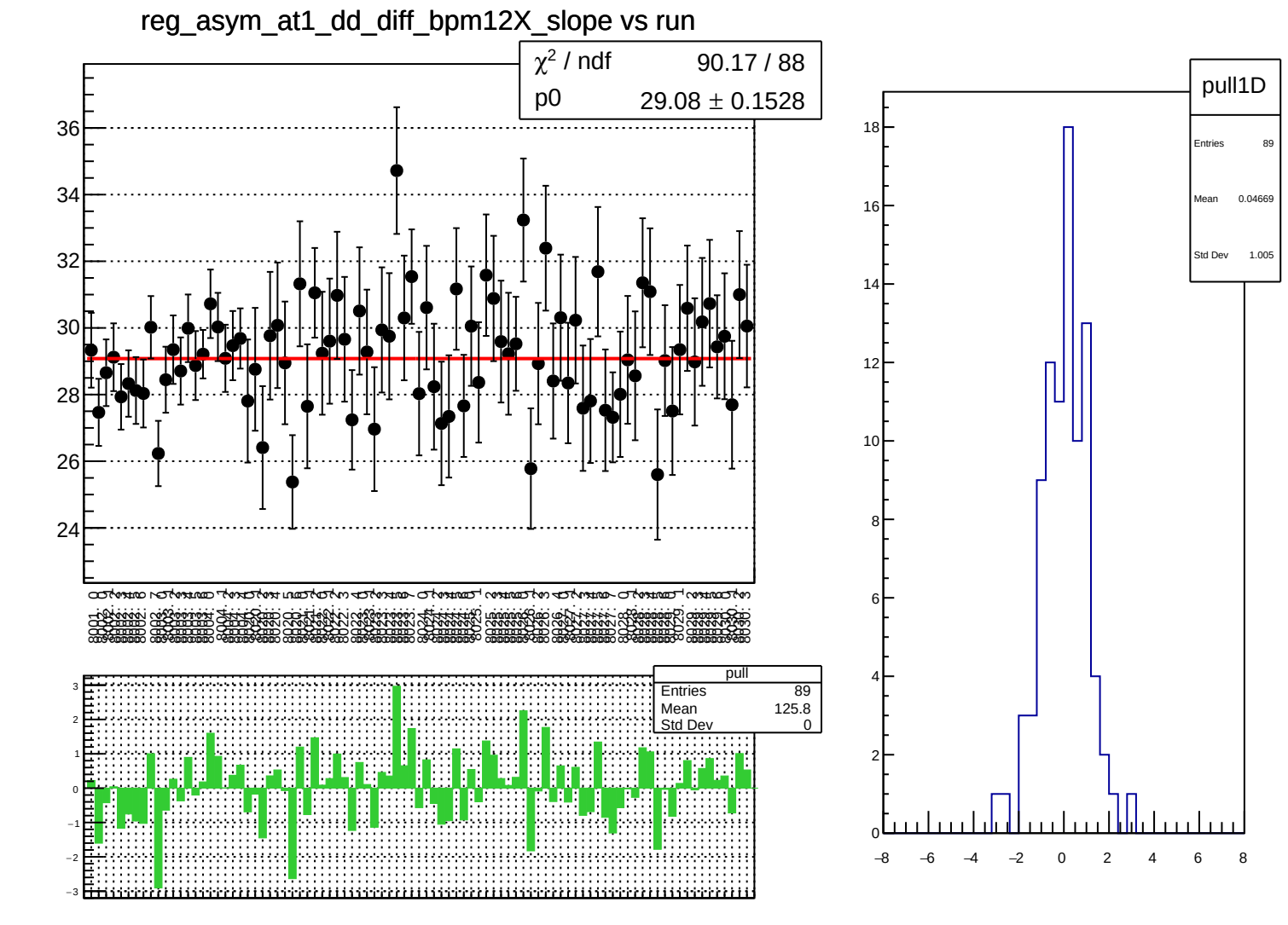

pull1D
Entries 89
Mean 0.0004362
Std Dev 0.9568
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

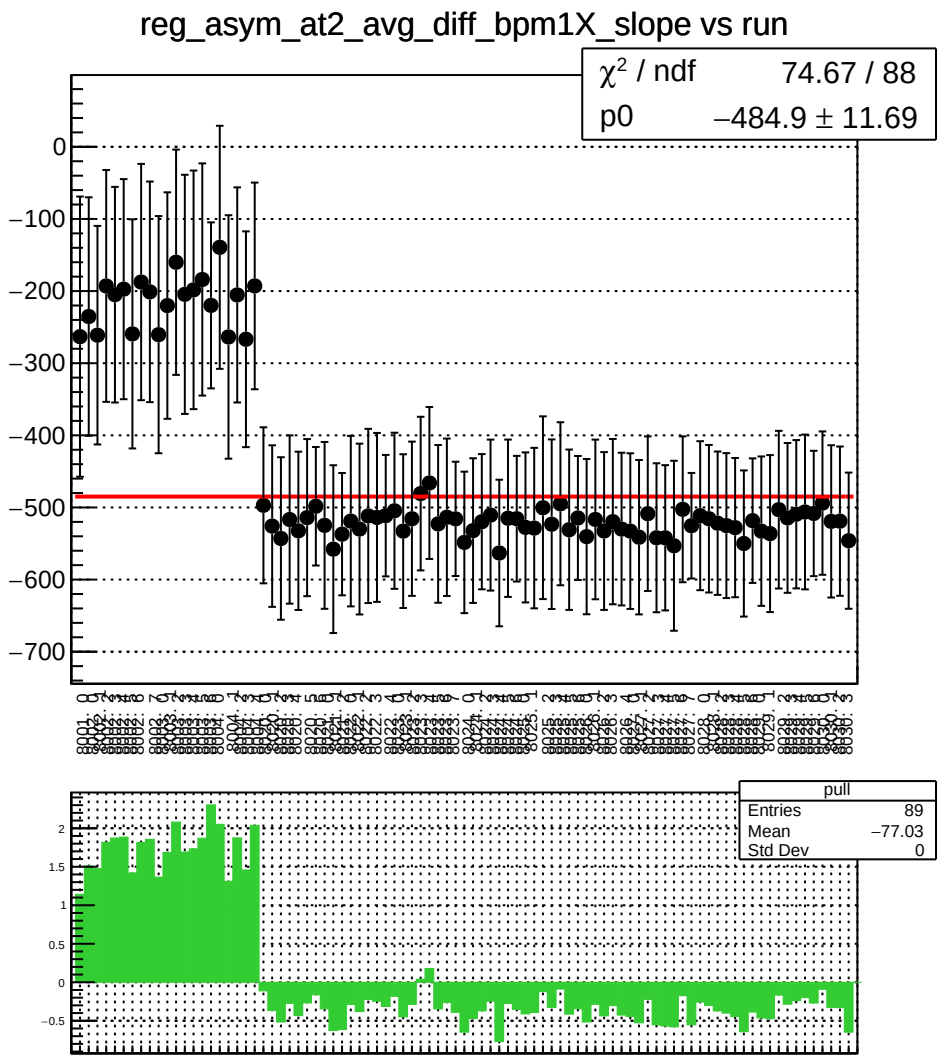

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 87.57 / 88
p0 −10.45 ± 2.055
pull
Entries 89
Mean −80.99
Std Dev 0

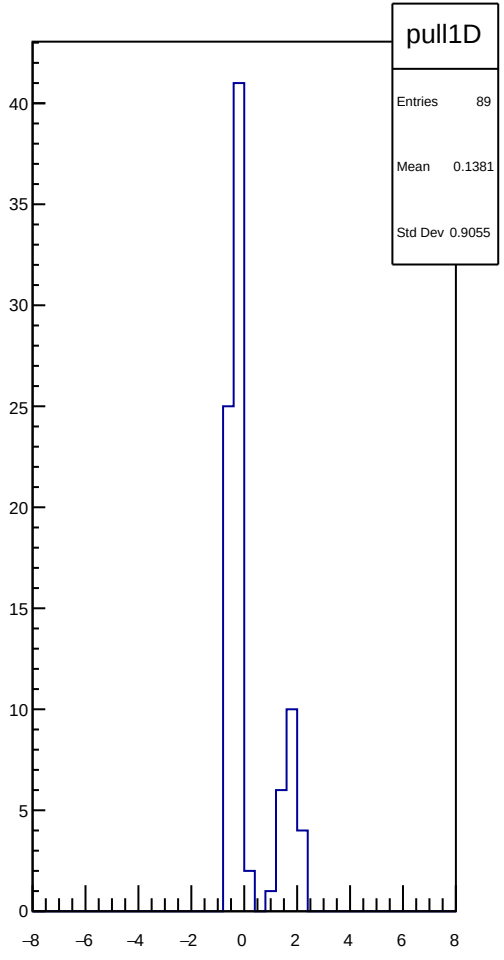

pull1D
Entries 89
Mean 0.05252
Std Dev 0.9905

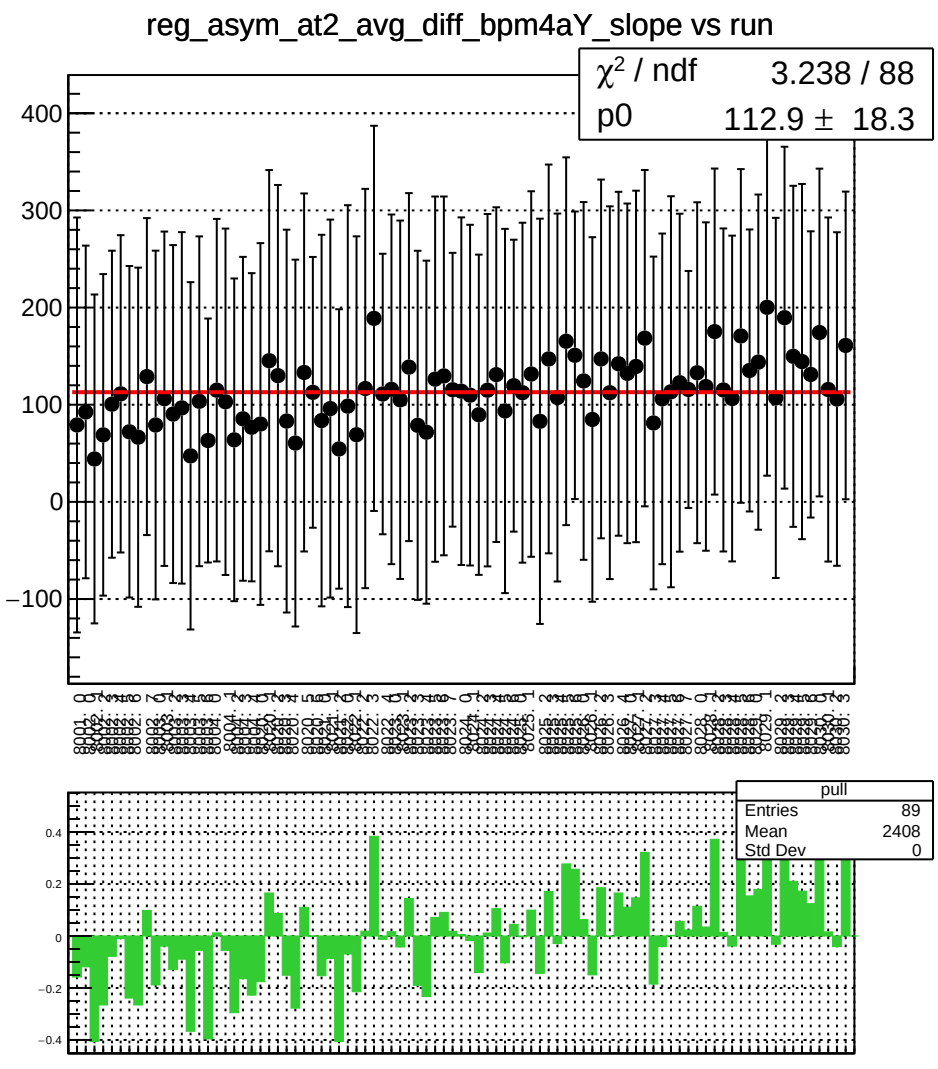

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 80.37 / 88
p0 −4.486 ± 3.341
100
50
0
−50
−100
pull
Entries 89
Mean −774.4
Std Dev 0
3
2
1
0
−1
−2

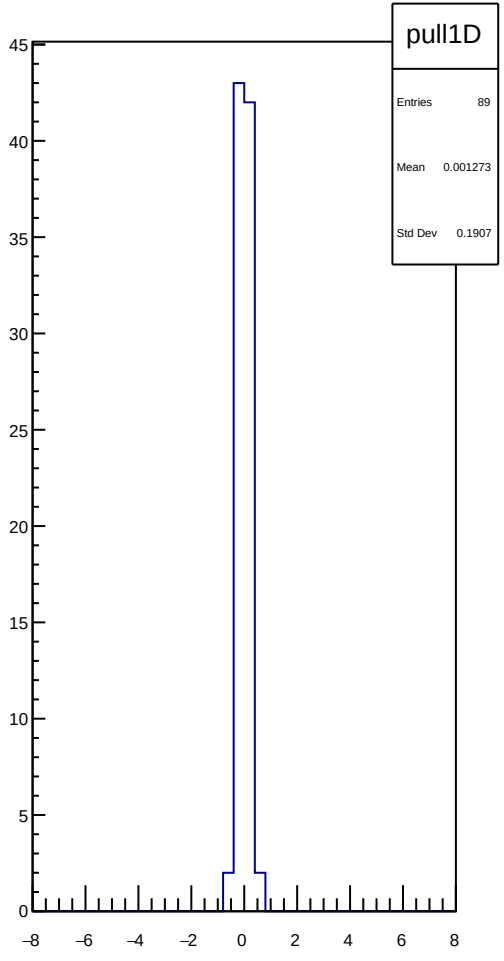

pull1D
Entries 89
Mean −0.001549
Std Dev 0.9503
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

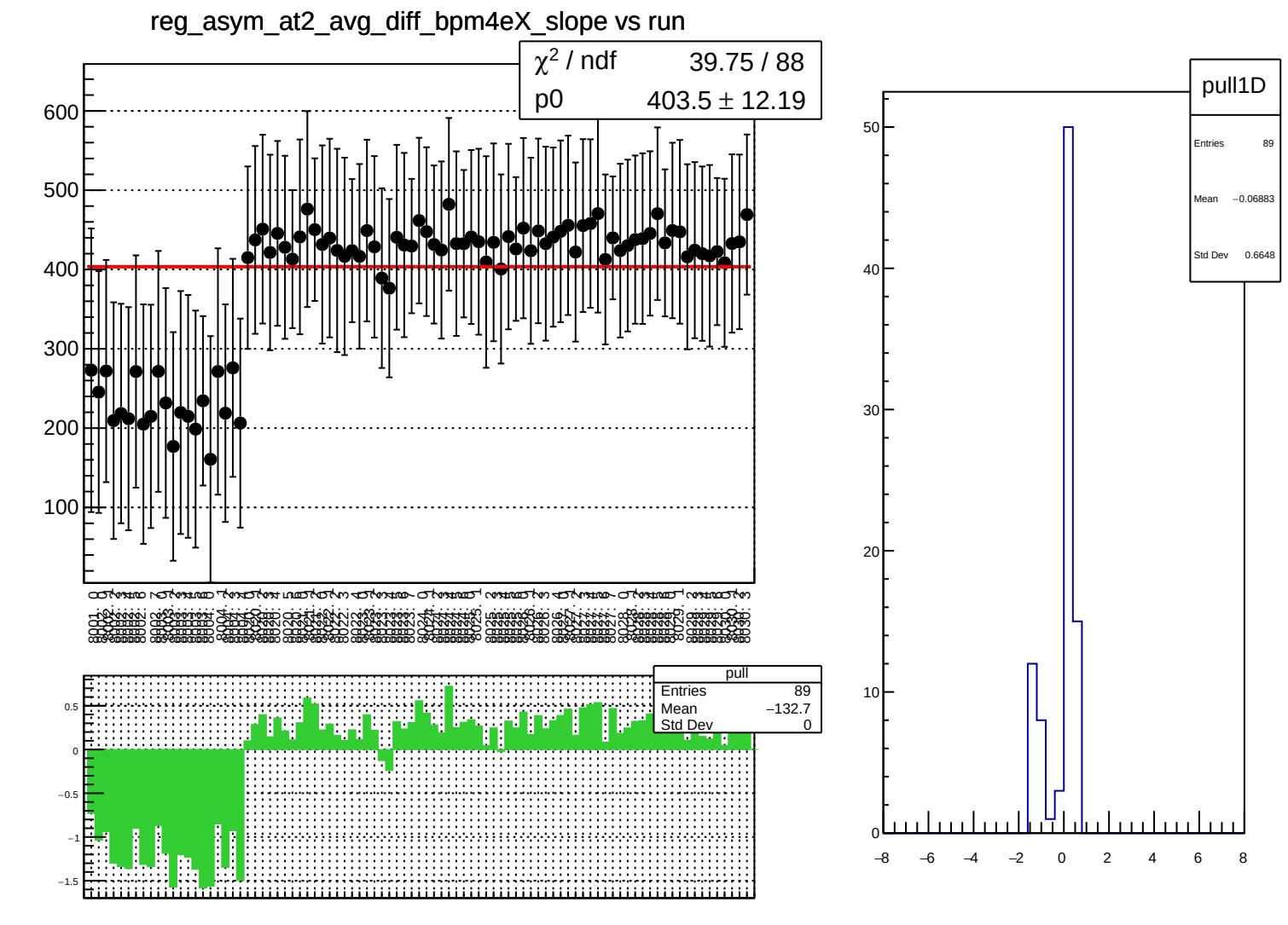

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 90.17 / 88
p0 29.08 ± 0.1528
pull
Entries 89
Mean 125.8
Std Dev 0
pull1D
Entries 89
Mean 0.04669
Std Dev 1.005

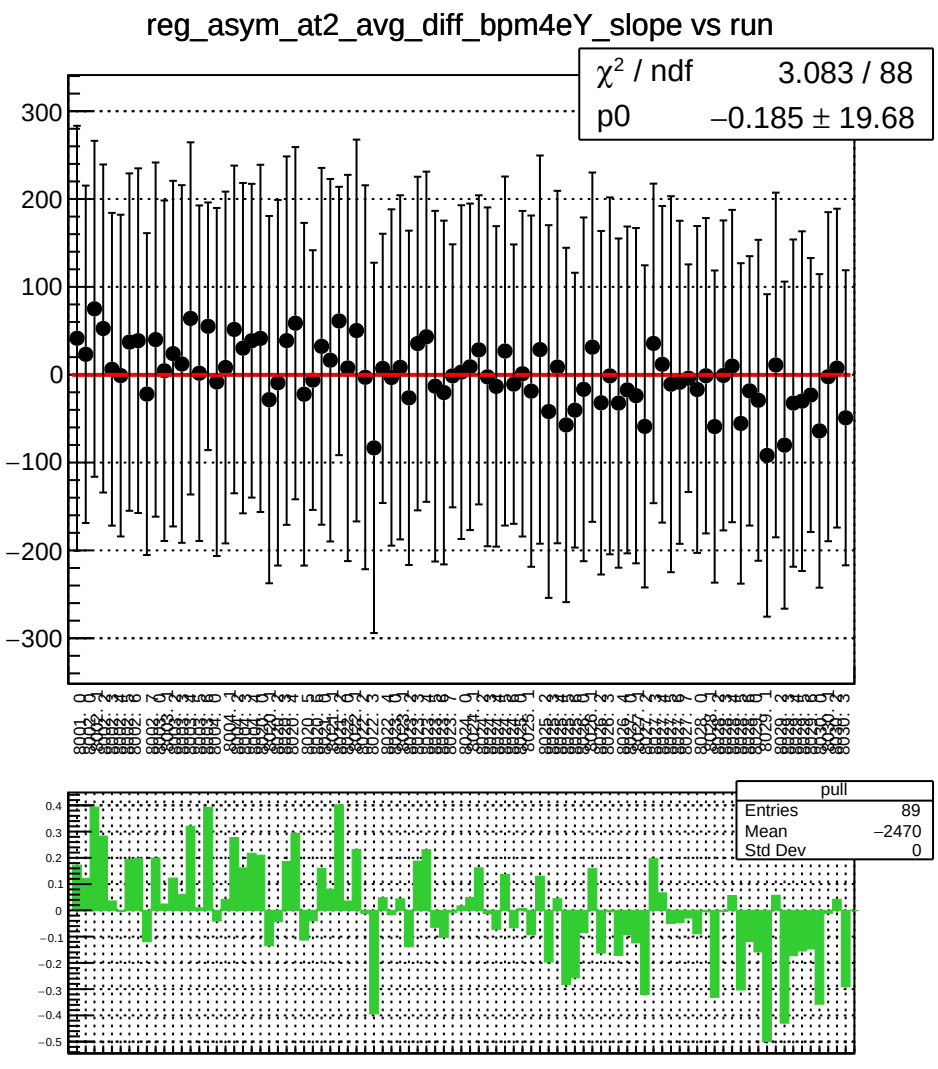

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 74.67 / 88
p0 −484.9 ± 11.69
pull
Entries 89
Mean −77.03
Std Dev 0

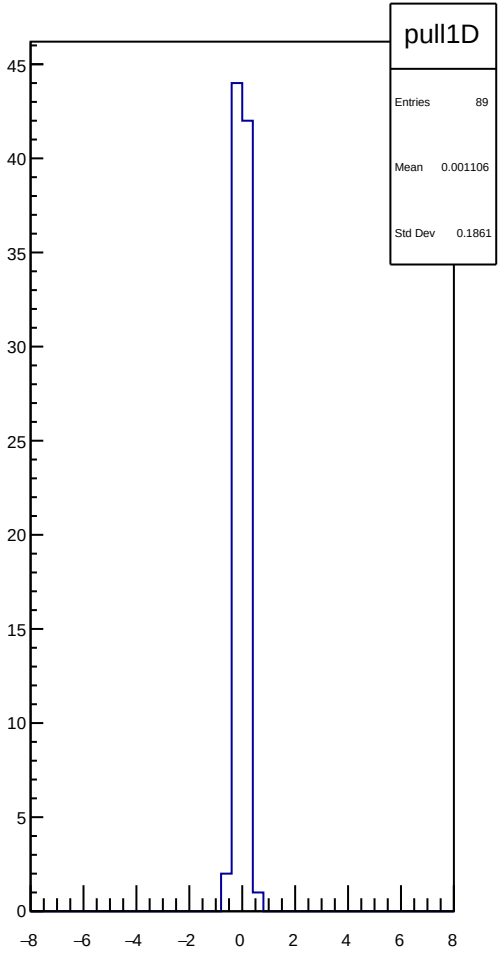

pull1D
Entries 89
Mean 0.1381
Std Dev 0.9055

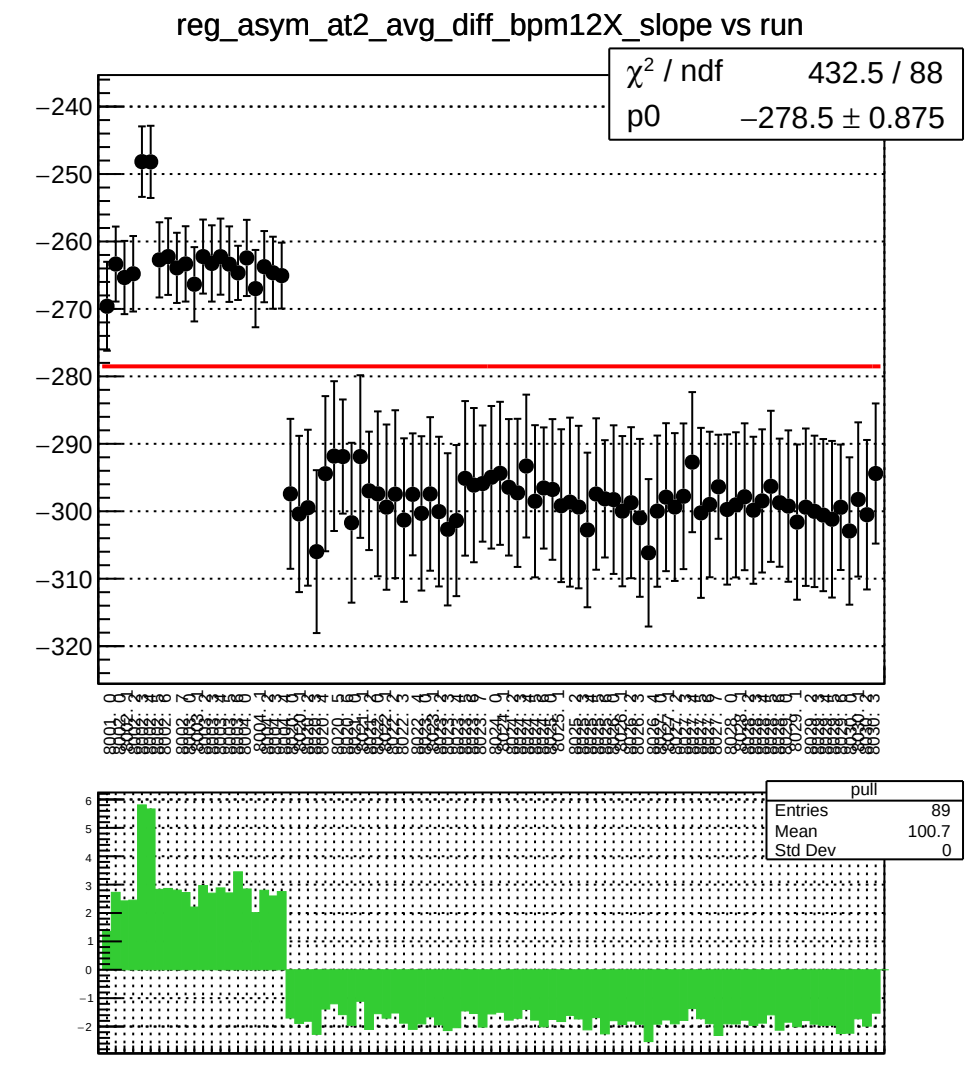

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.238 / 88
p0 112.9 ± 18.3
400
300
200
100
0
−100
pull
Entries 89
Mean 2408
Std Dev 0
0.4
0.2
0
−0.2
−0.4

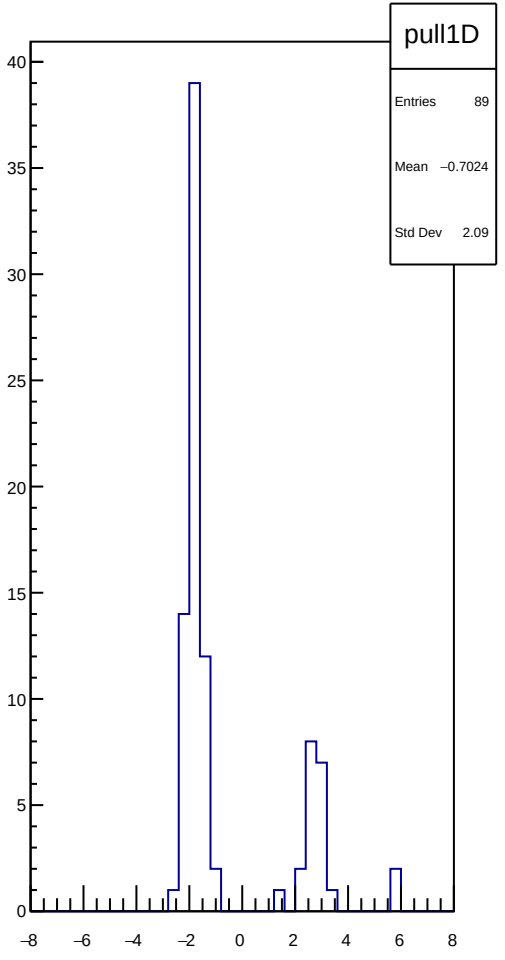

pull1D
Entries 89
Mean 0.001273
Std Dev 0.1907
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

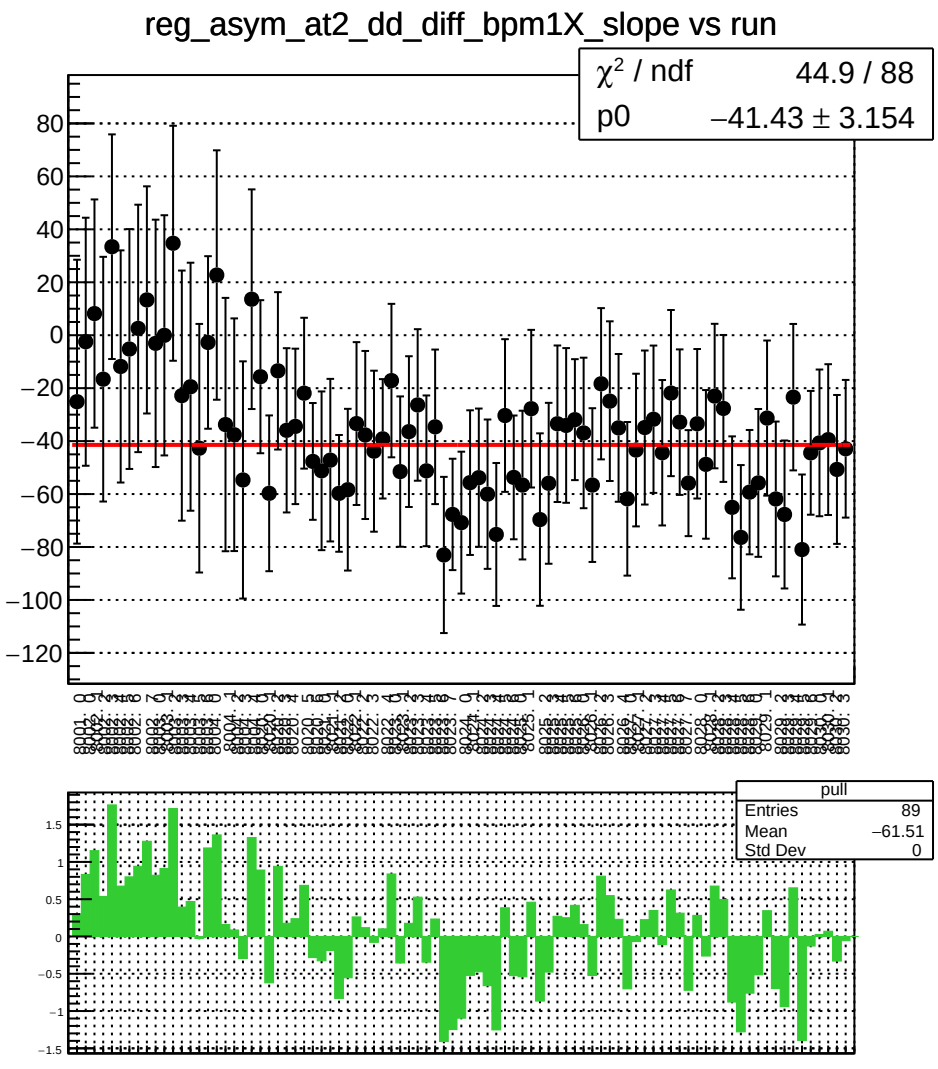

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 39.75 / 88
p0 403.5 ± 12.19
600
500
400
300
200
100
pull
Entries 89
Mean −132.7
Std Dev 0
0.5
0
−0.5
−1
−1.5
pull1D
Entries 89
Mean −0.06883
Std Dev 0.6648
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

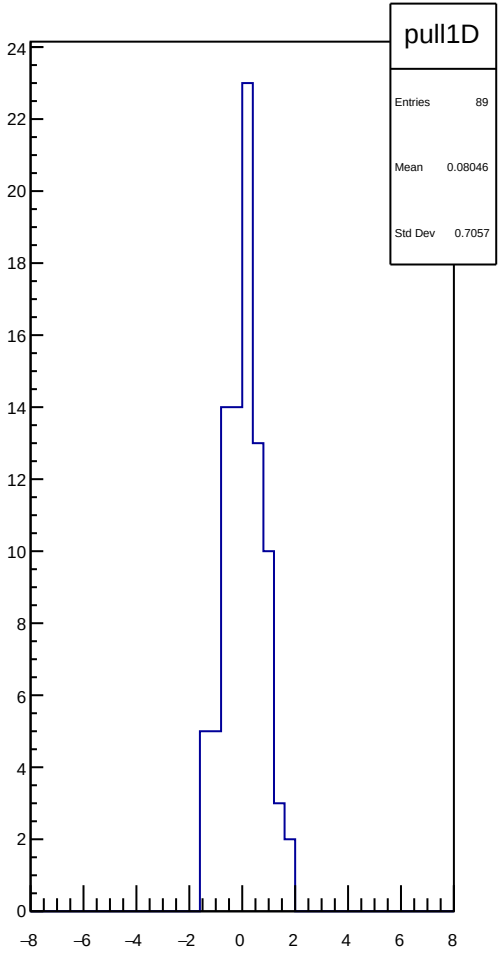

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.083 / 88
p0 −0.185 ± 19.68
pull
Entries 89
Mean −2470
Std Dev 0

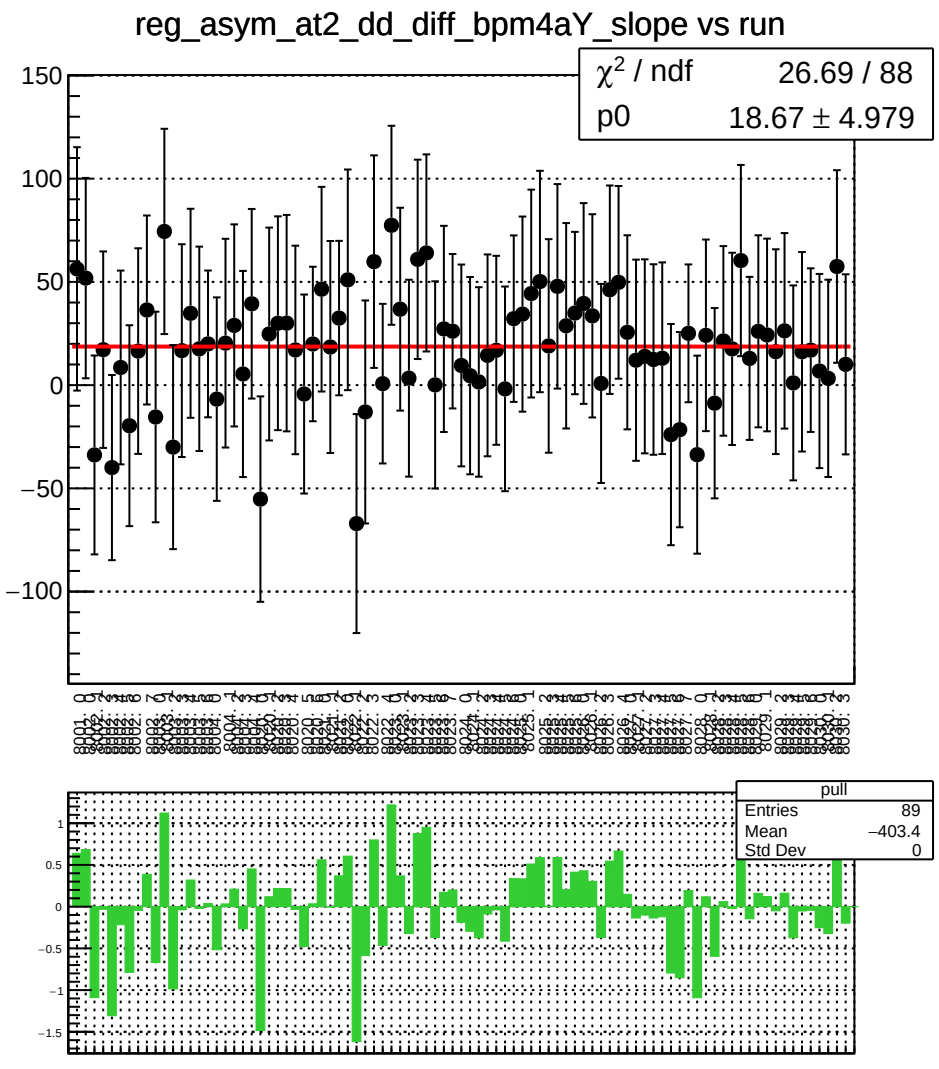

pull1D
Entries 89
Mean 0.001106
Std Dev 0.1861

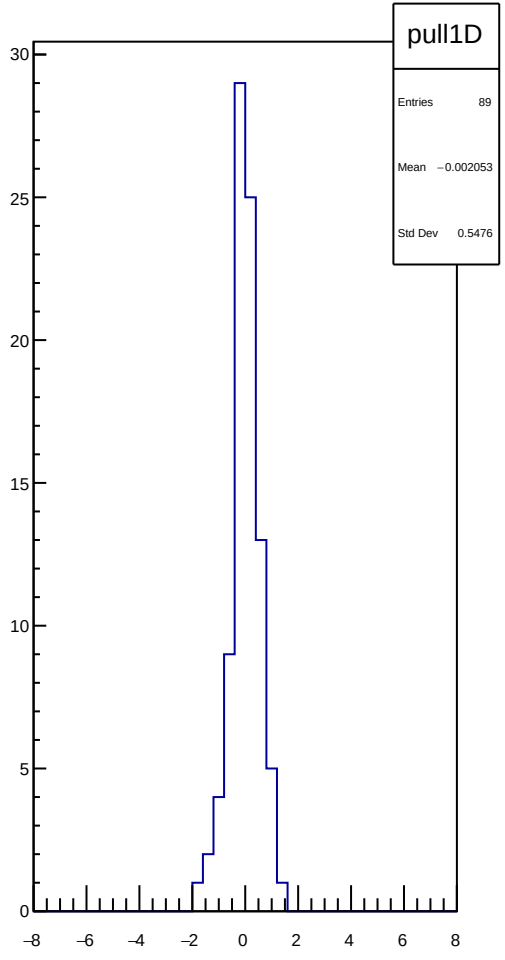

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 432.5 / 88
p0 −278.5 ± 0.875
pull
Entries 89
Mean 100.7
Std Dev 0

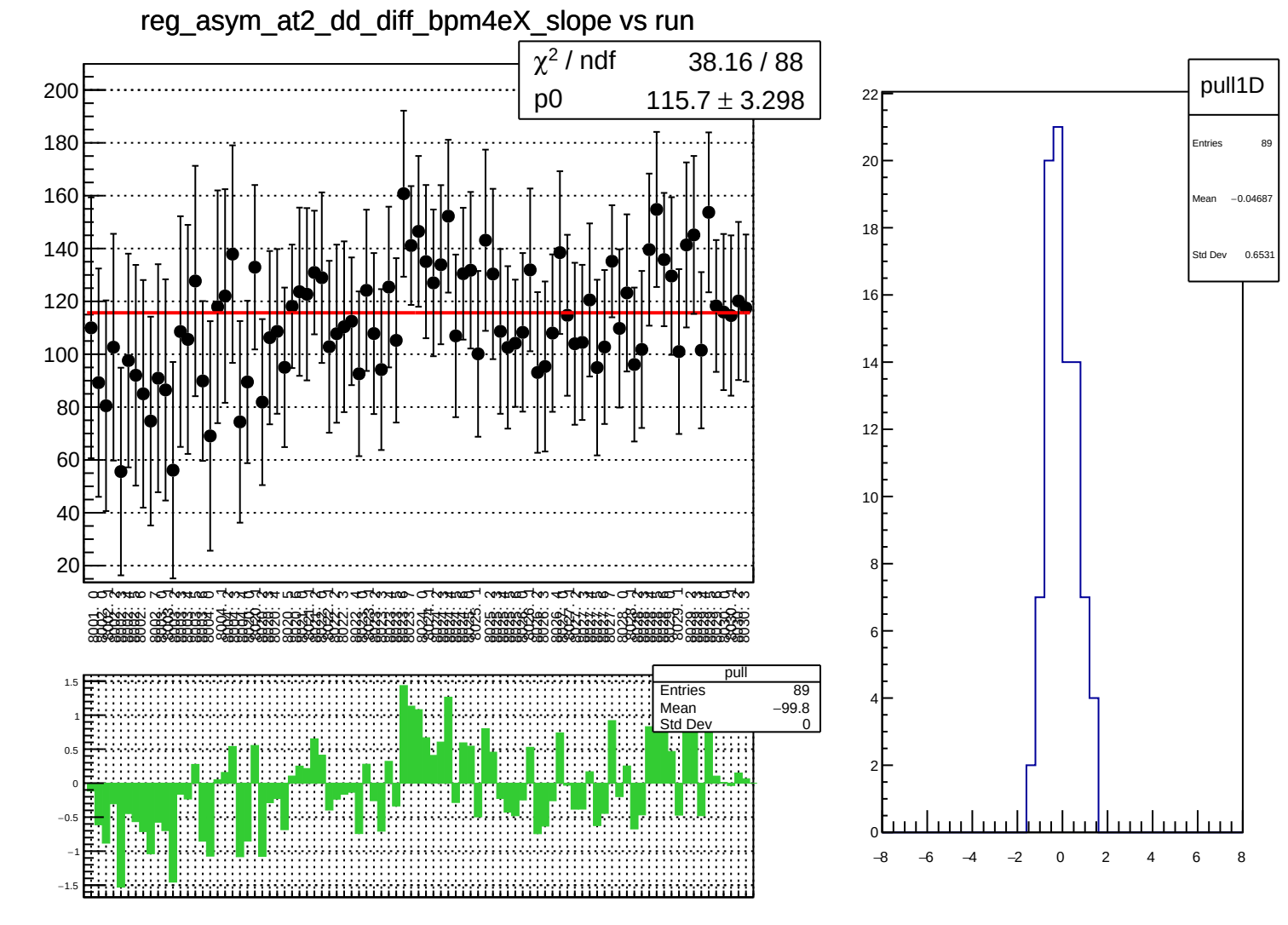

pull1D
Entries 89
Mean −0.7024
Std Dev 2.09

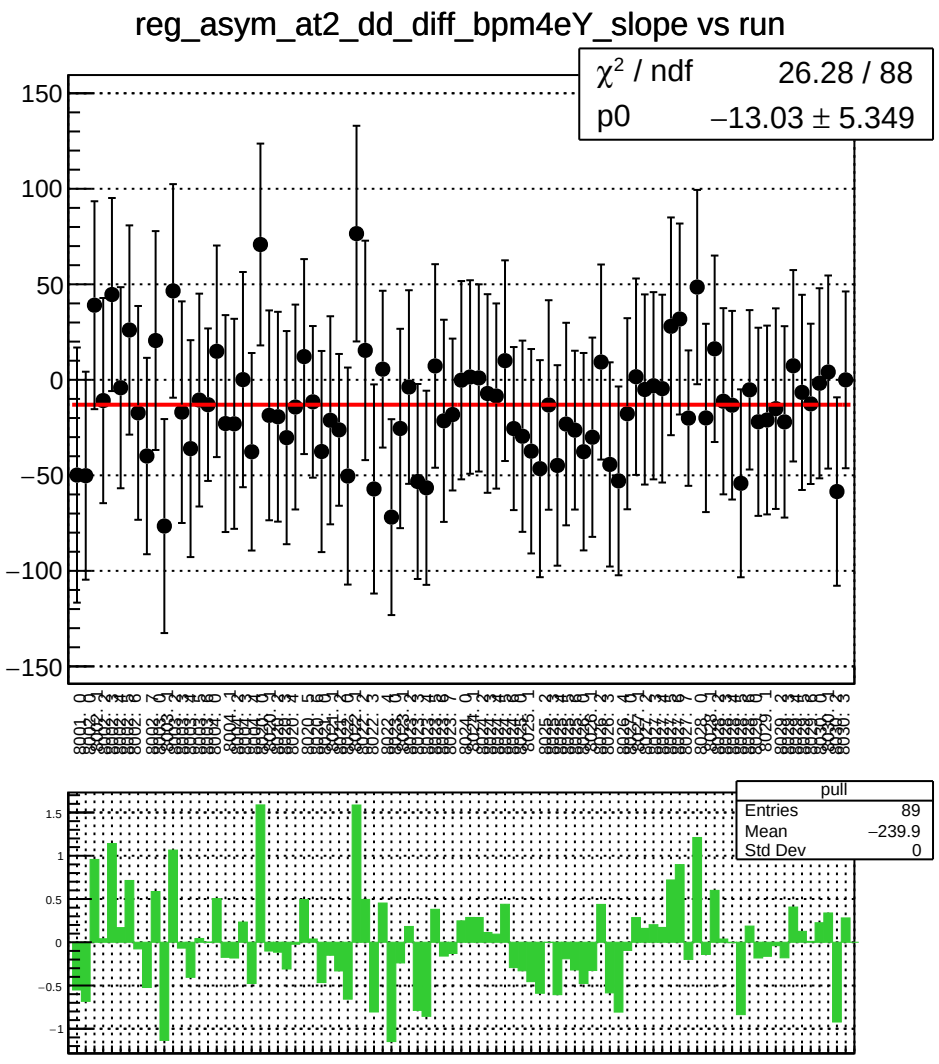

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 44.9 / 88
p0 −41.43 ± 3.154
pull
Entries 89
Mean −61.51
Std Dev 0

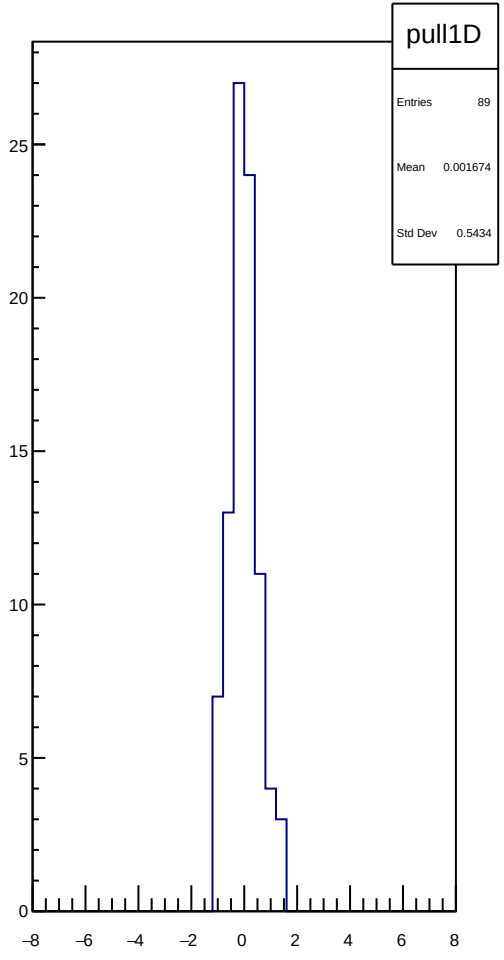

pull1D
Entries 89
Mean 0.08046
Std Dev 0.7057

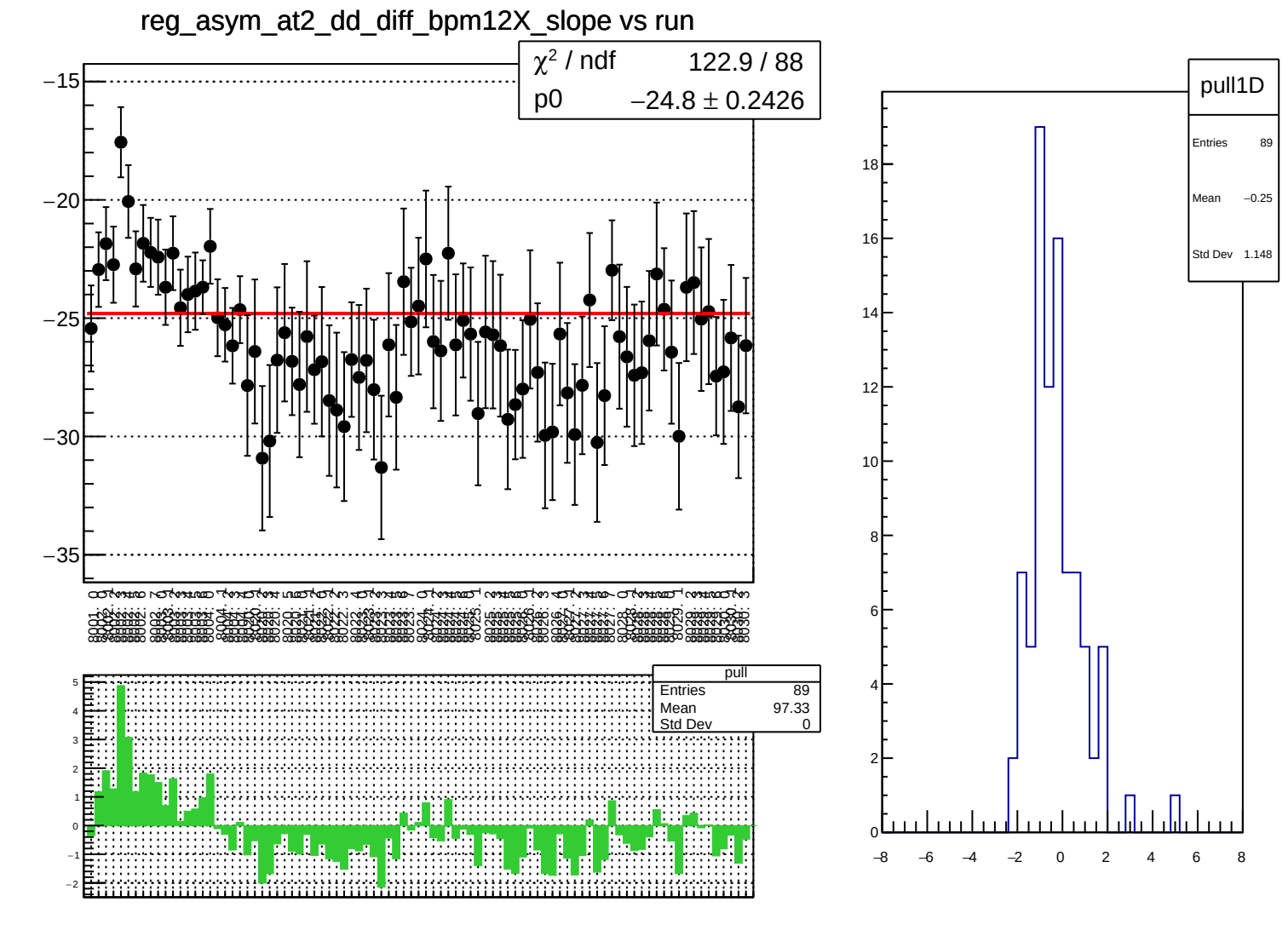

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 26.69 / 88
p0 18.67 ± 4.979
150
100
50
0
−50
−100
pull
Entries 89
Mean −403.4
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

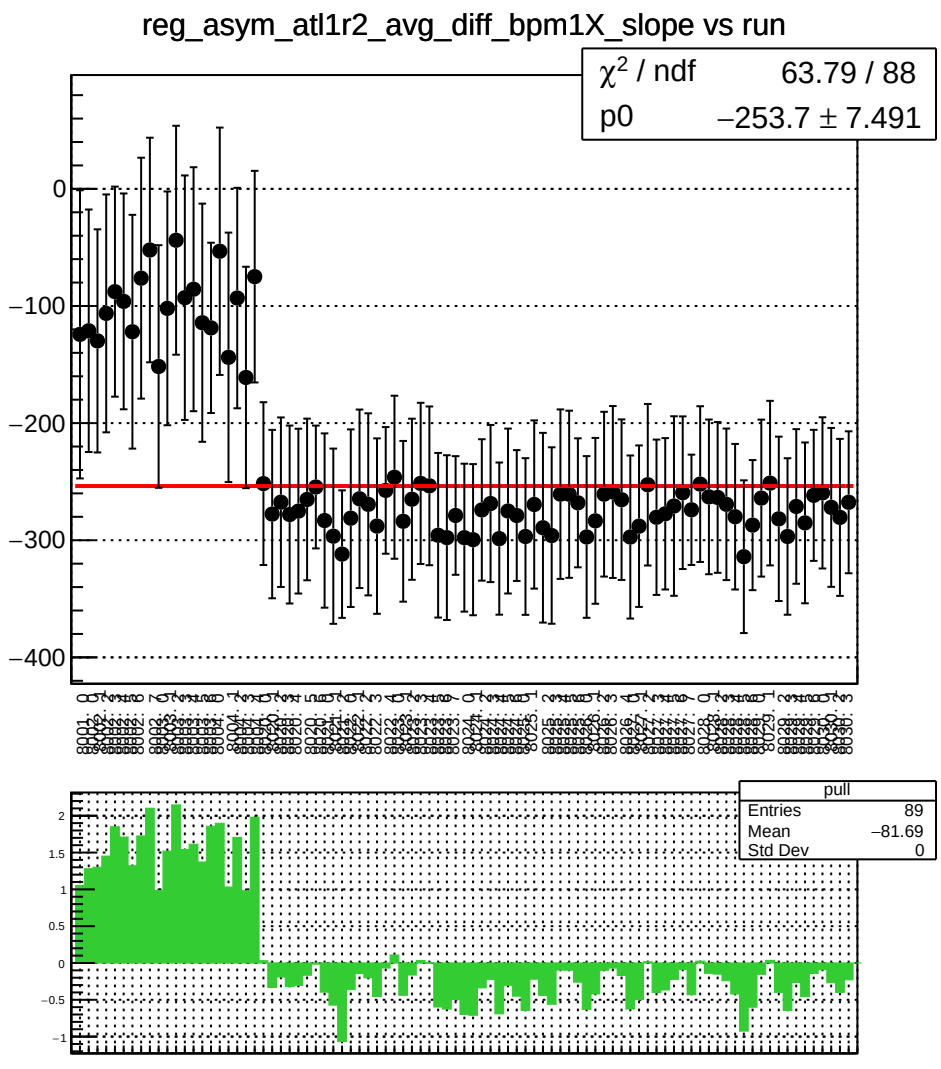

pull1D
Entries 89
Mean −0.002053
Std Dev 0.5476
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

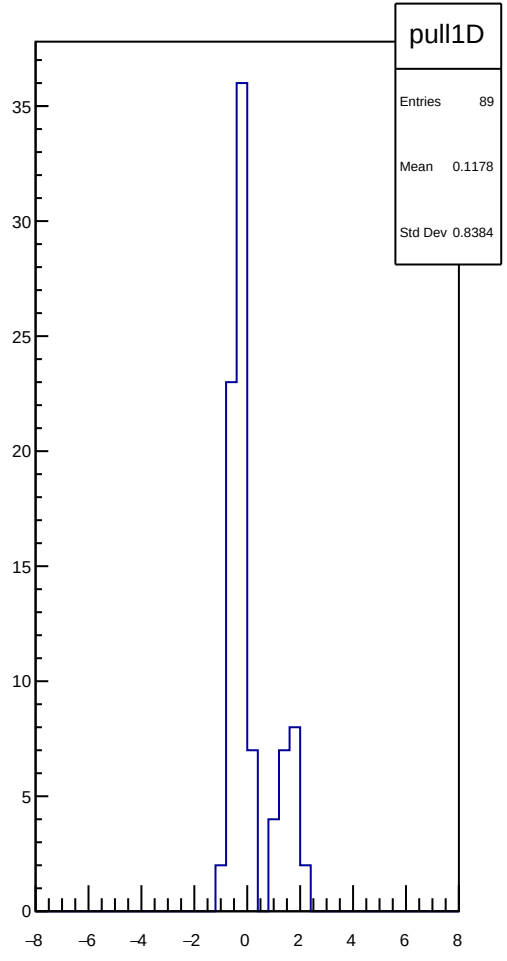

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 38.16 / 88
p0 115.7 ± 3.298
pull
Entries 89
Mean −99.8
Std Dev 0
pull1D
Entries 89
Mean −0.04687
Std Dev 0.6531

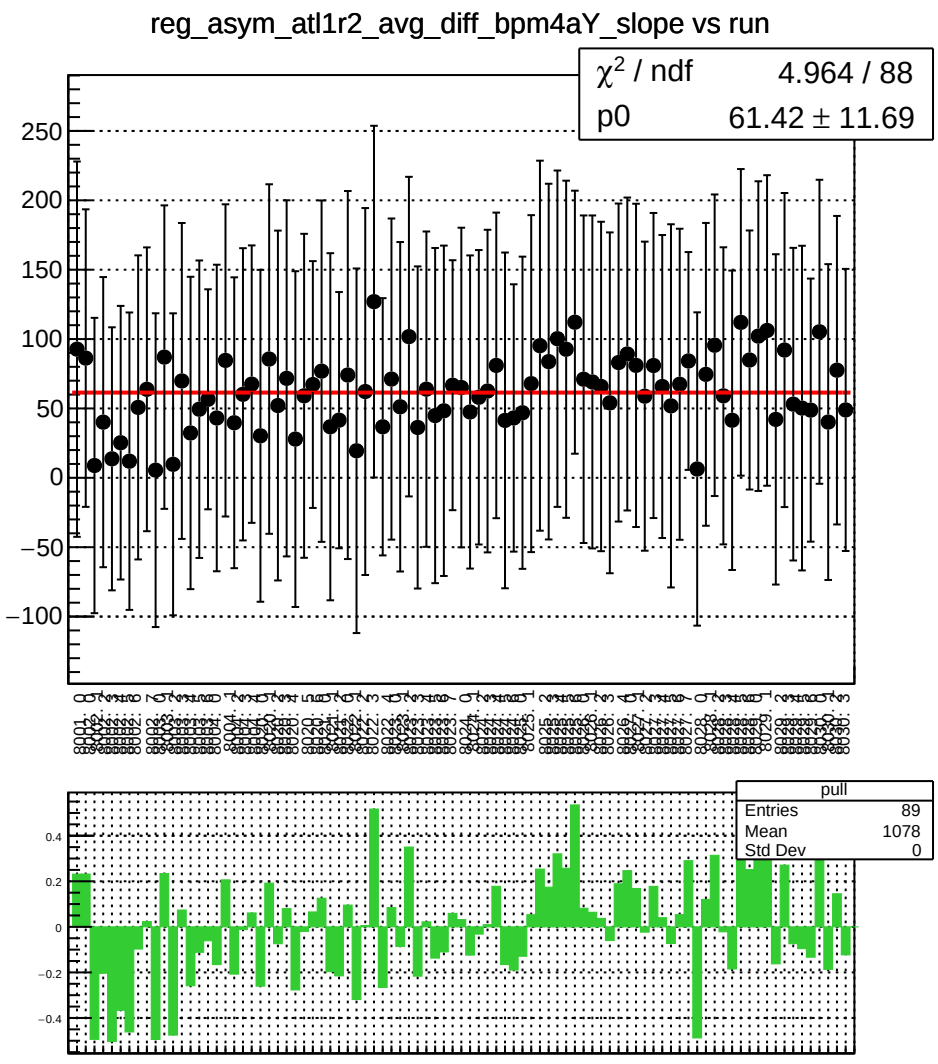

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 26.28 / 88
p0 −13.03 ± 5.349
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −239.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1

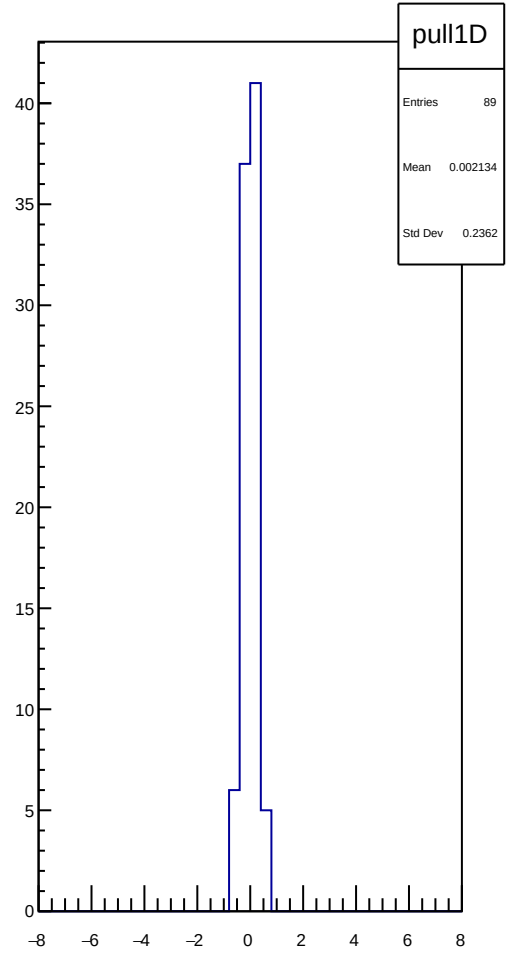

pull1D
Entries 89
Mean 0.001674
Std Dev 0.5434
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

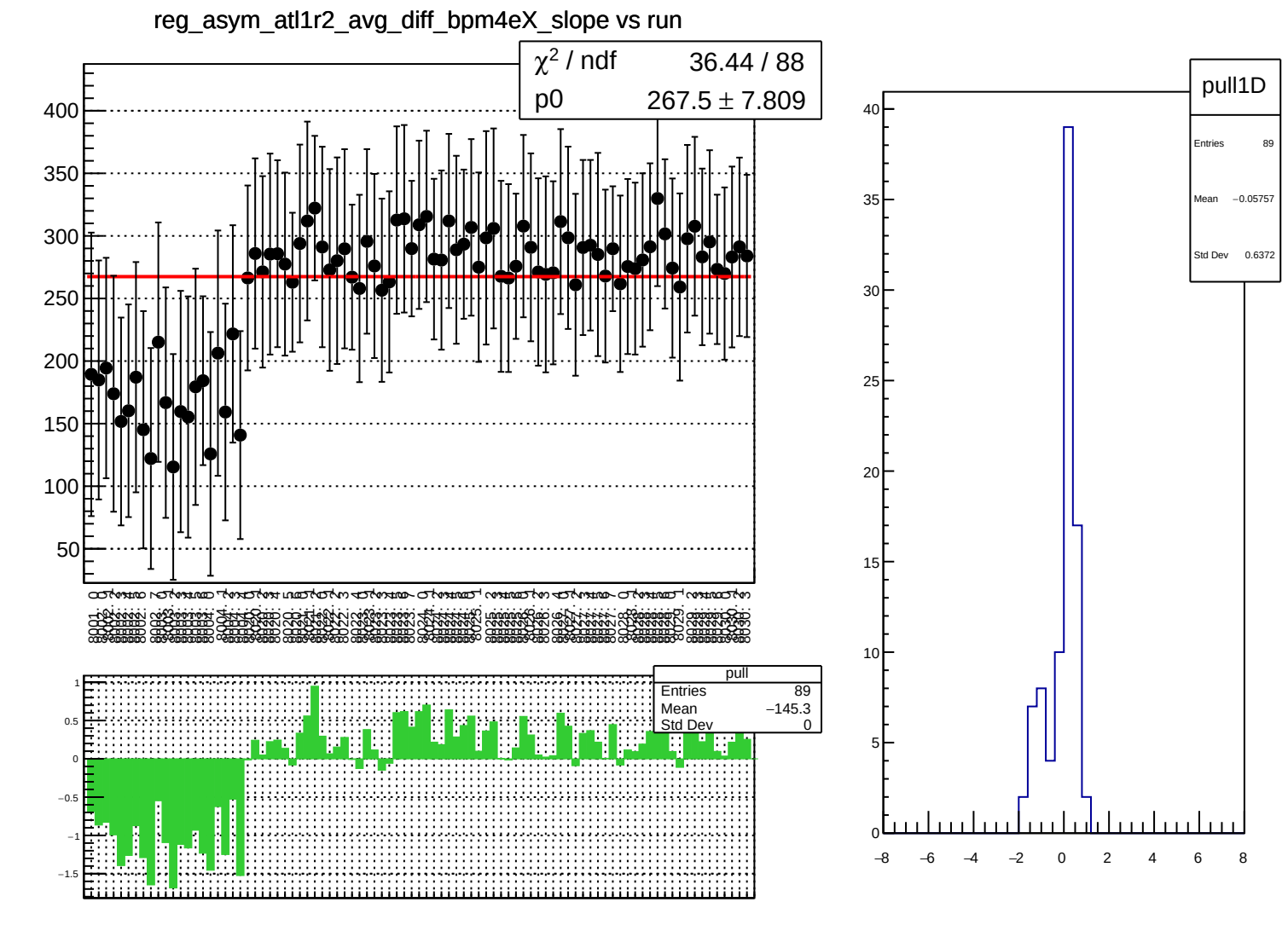

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 122.9 / 88
p0 −24.8 ± 0.2426
pull
Entries 89
Mean 97.33
Std Dev 0
pull1D
Entries 89
Mean −0.25
Std Dev 1.148

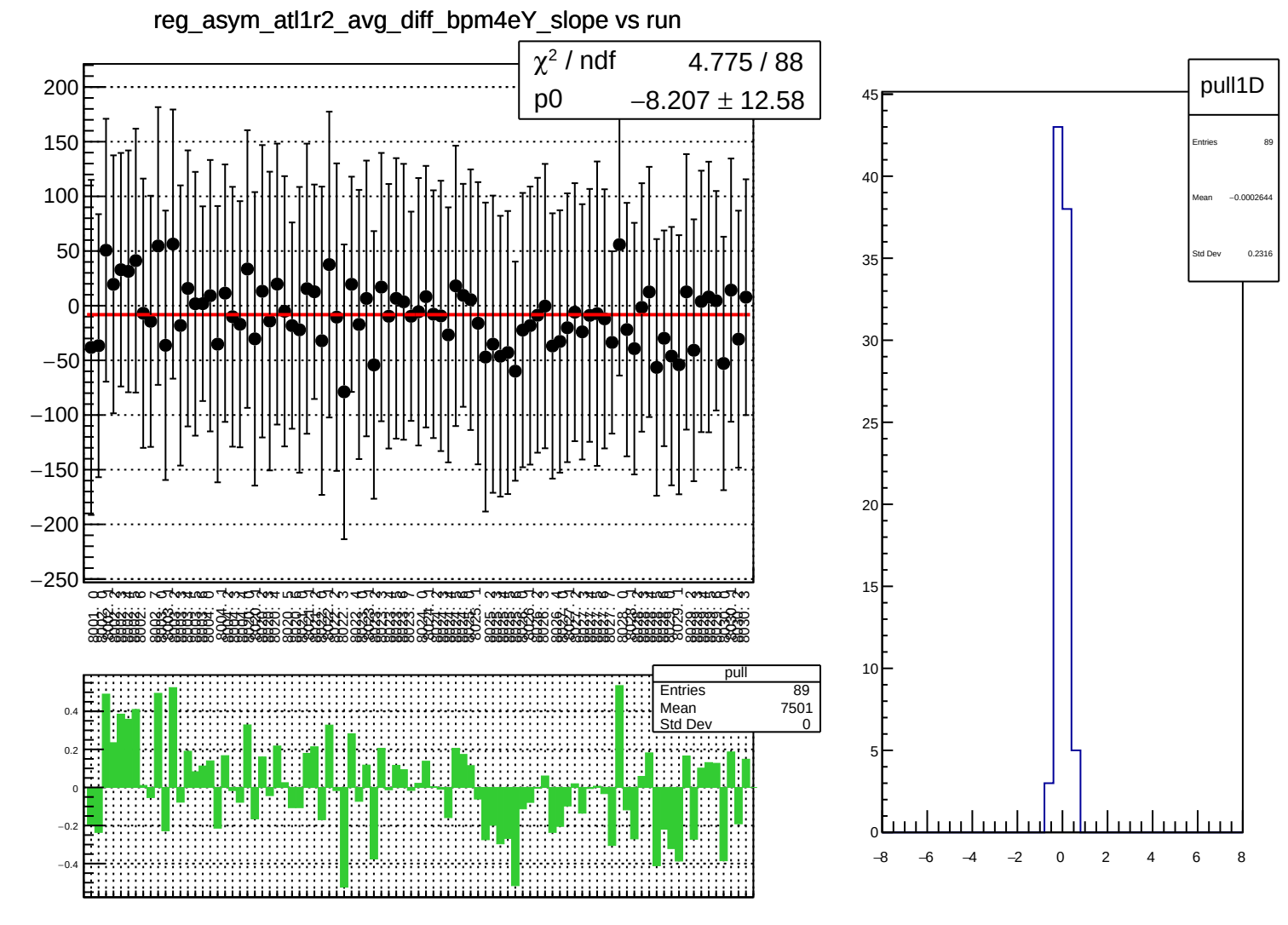

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 63.79 / 88
p0 −253.7 ± 7.491
0
−100
−200
−300
−400
pull
Entries 89
Mean −81.69
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

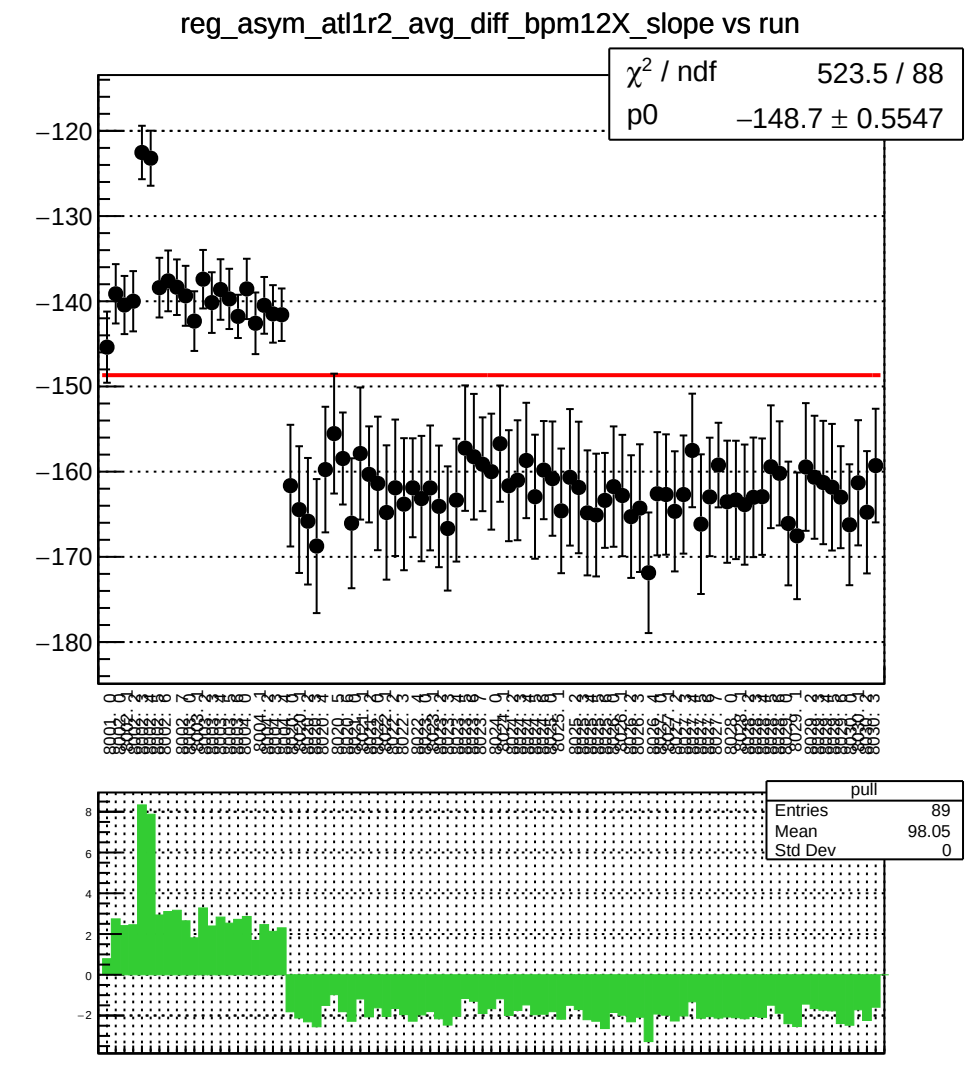

pull1D
Entries 89
Mean 0.1178
Std Dev 0.8384
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

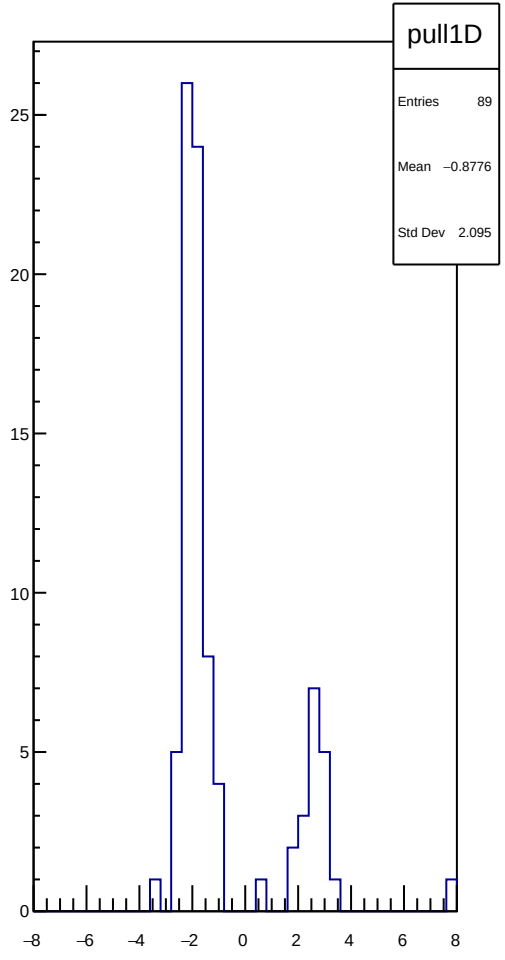

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.964 / 88
p0 61.42 ± 11.69
250
200
150
100
50
0
−50
−100
pull
Entries 89
Mean 1078
Std Dev 0
0.4
0.2
0
−0.2
−0.4

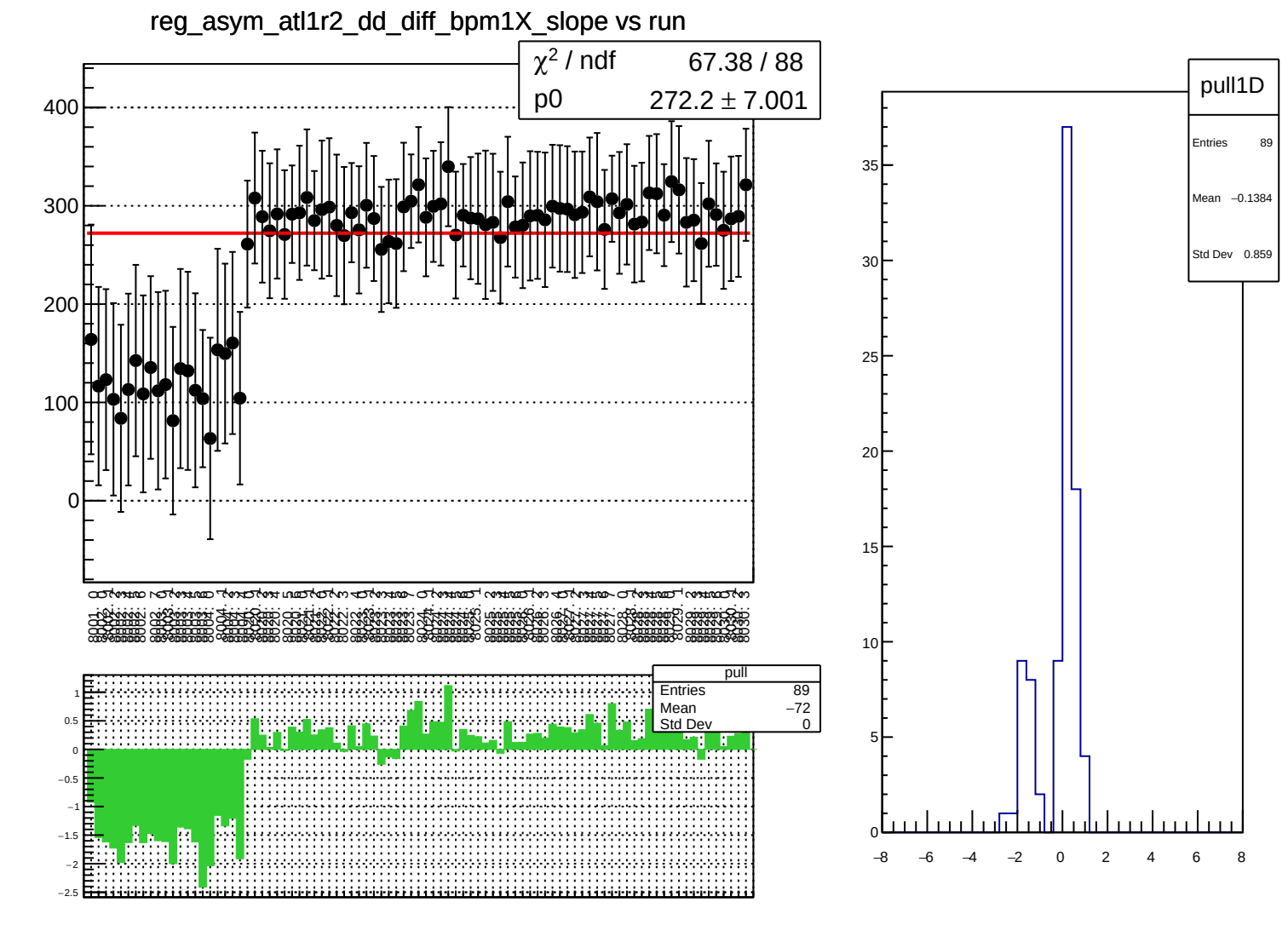

pull1D
Entries 89
Mean 0.002134
Std Dev 0.2362
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

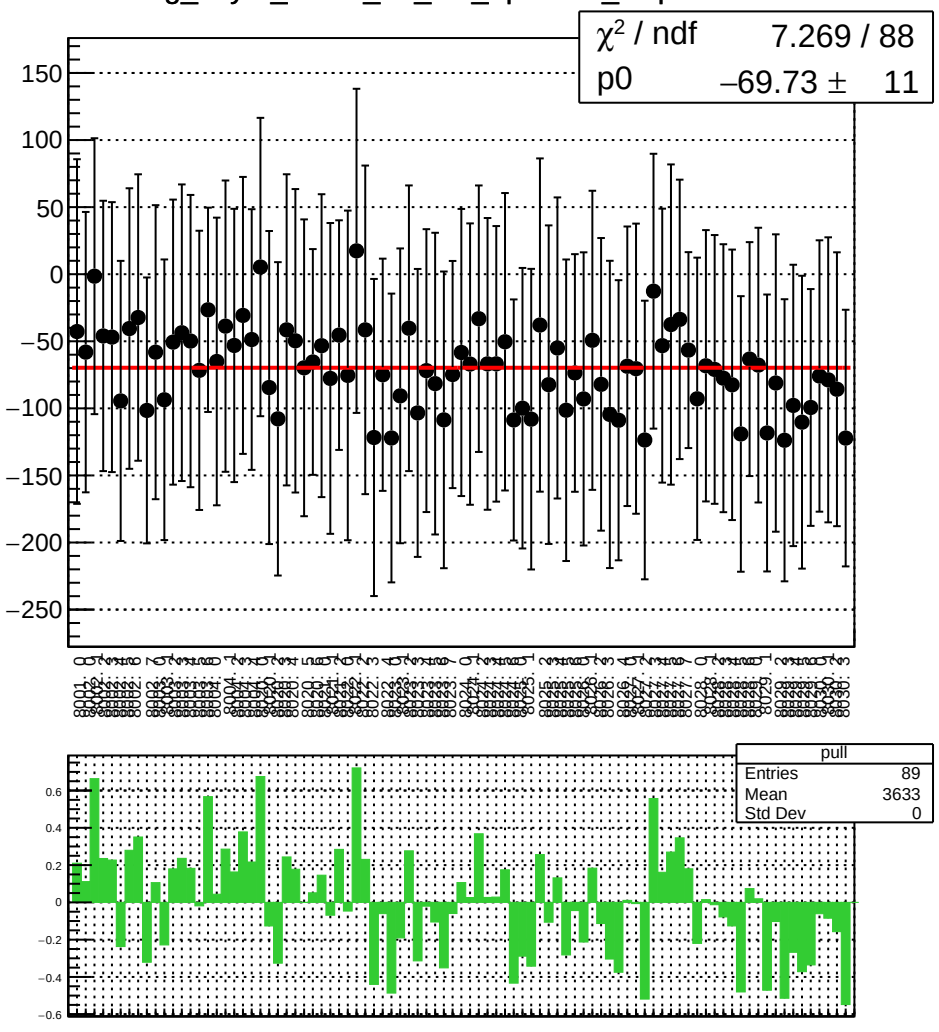

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 36.44 / 88
p0 267.5 ± 7.809
pull
Entries 89
Mean −145.3
Std Dev 0
pull1D
Entries 89
Mean −0.05757
Std Dev 0.6372

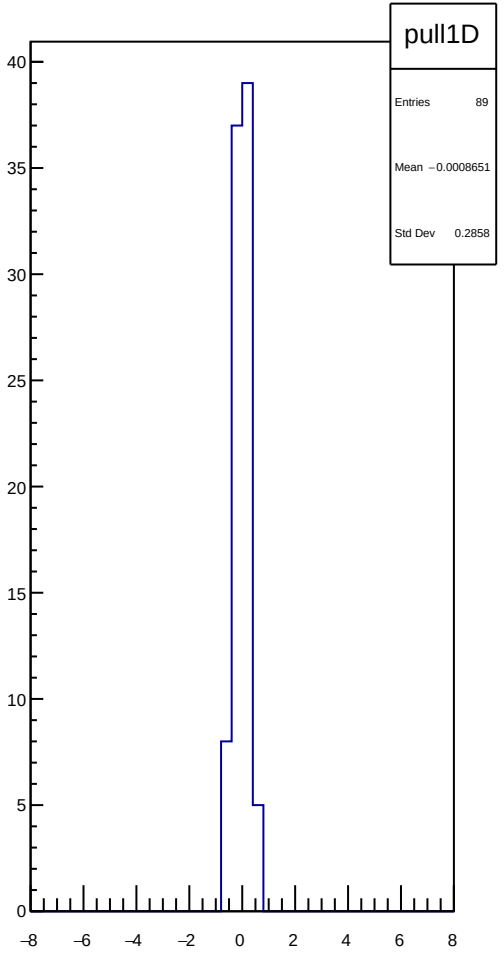

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.775 / 88
p0 −8.207 ± 12.58
pull
Entries 89
Mean 7501
Std Dev 0
pull1D
Entries 89
Mean −0.0002644
Std Dev 0.2316

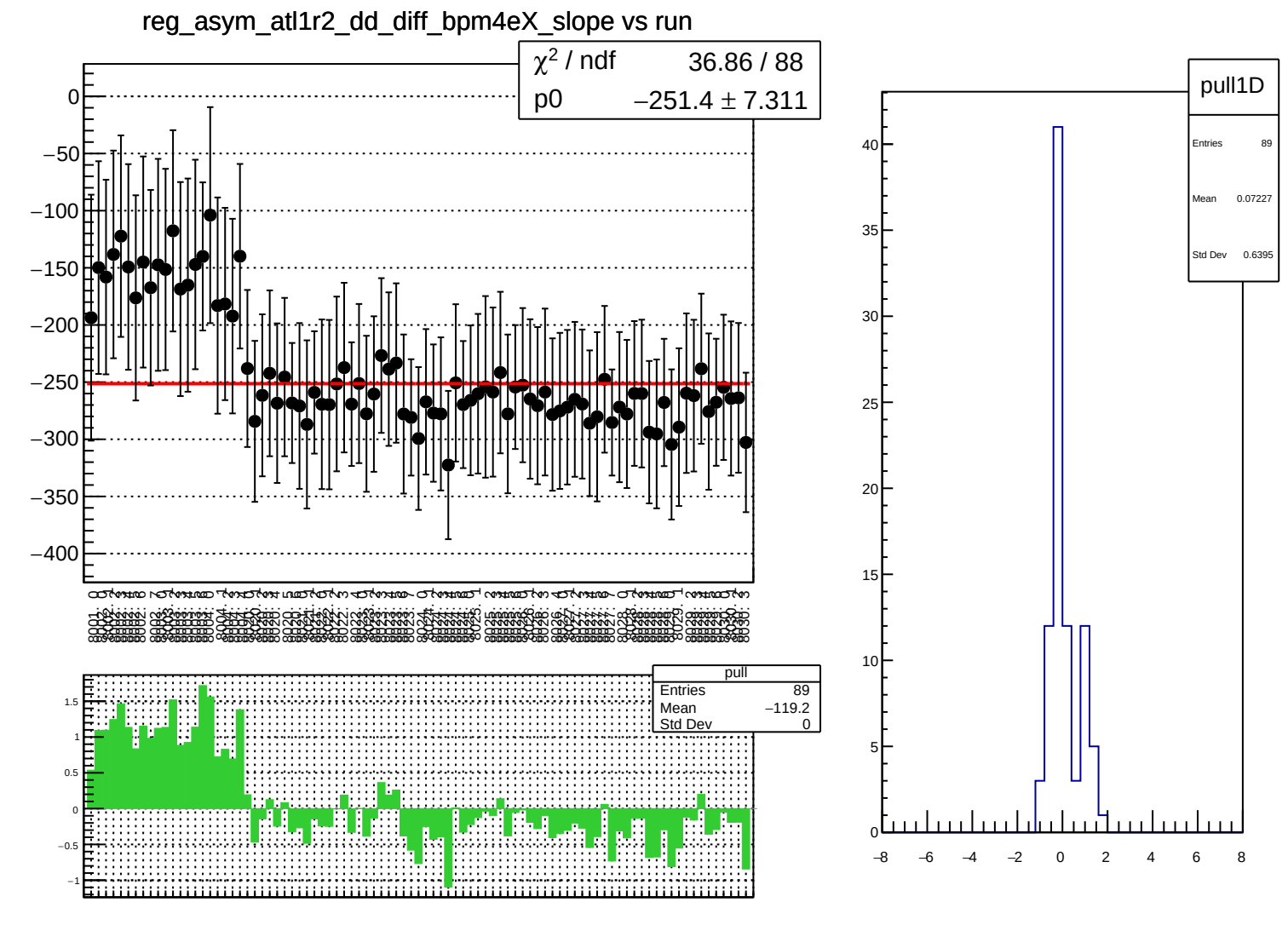

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 523.5 / 88
p0 −148.7 ± 0.5547
−120
−130
−140
−150
−160
−170
−180
pull
Entries 89
Mean 98.05
Std Dev 0
8
6
4
2
0
−2

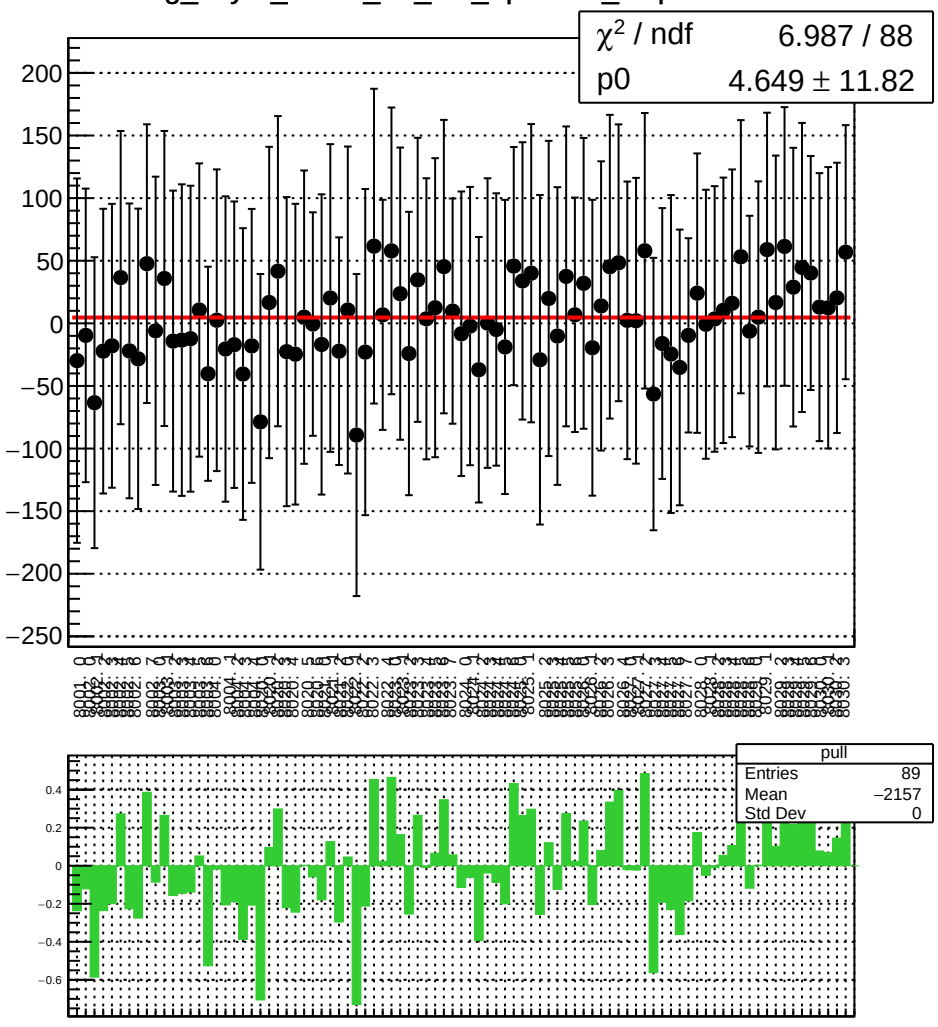

pull1D
Entries 89
Mean −0.8776
Std Dev 2.095
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

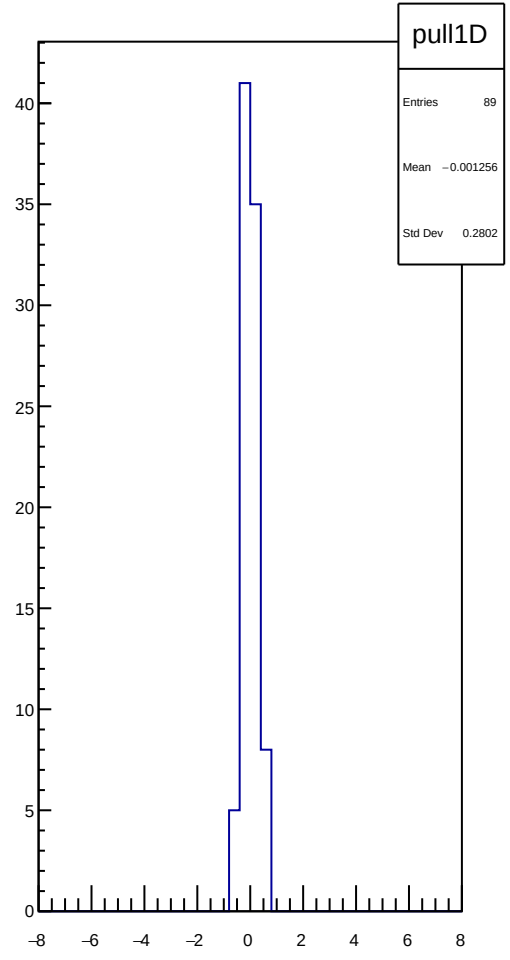

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 67.38 / 88
p0 272.2 ± 7.001
400
300
200
100
0
pull
Entries 89
Mean −72
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 89
Mean −0.1384
Std Dev 0.859
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

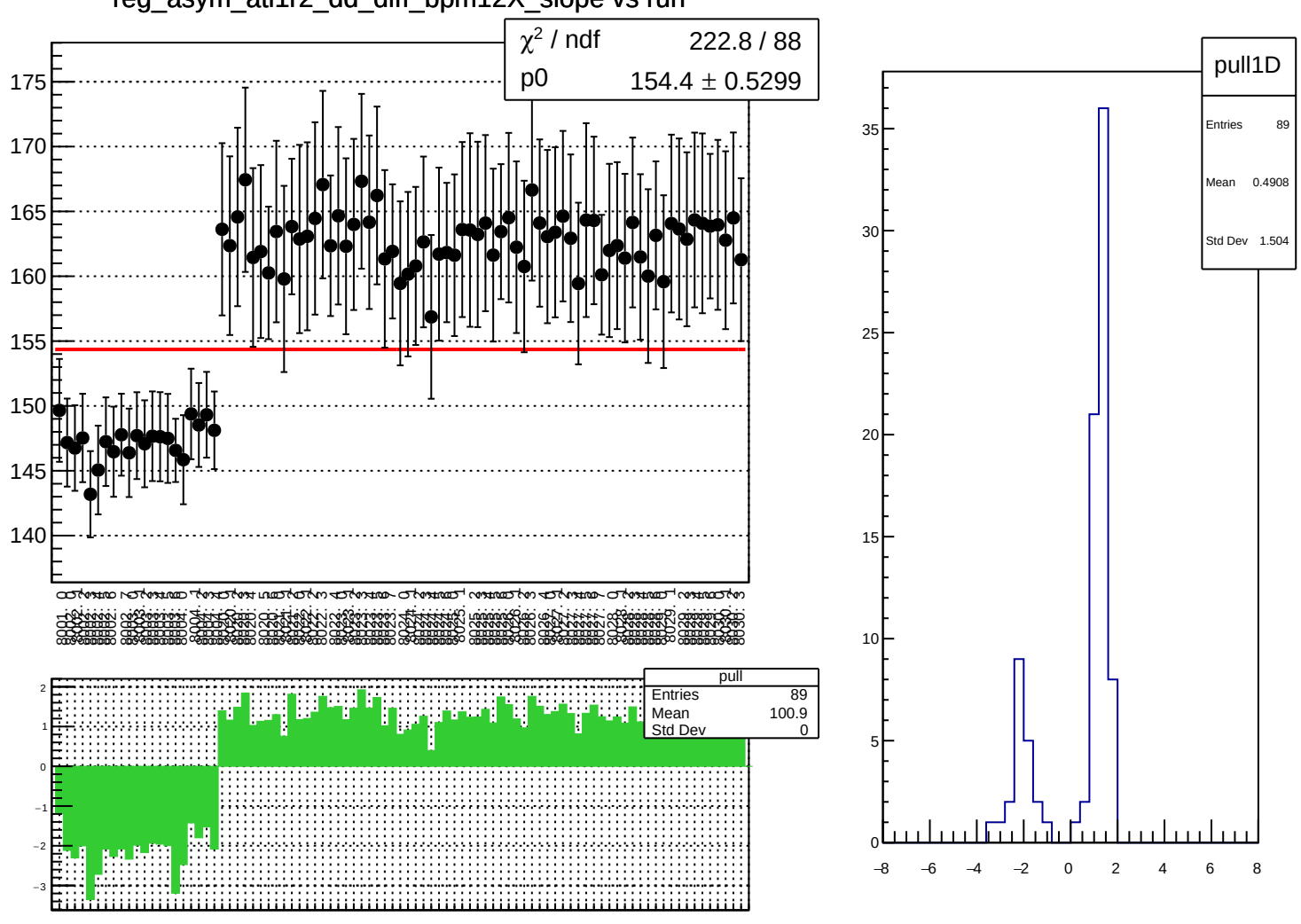

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.269 / 88
p0 −69.73 ± 11
pull
Entries 89
Mean 3633
Std Dev 0

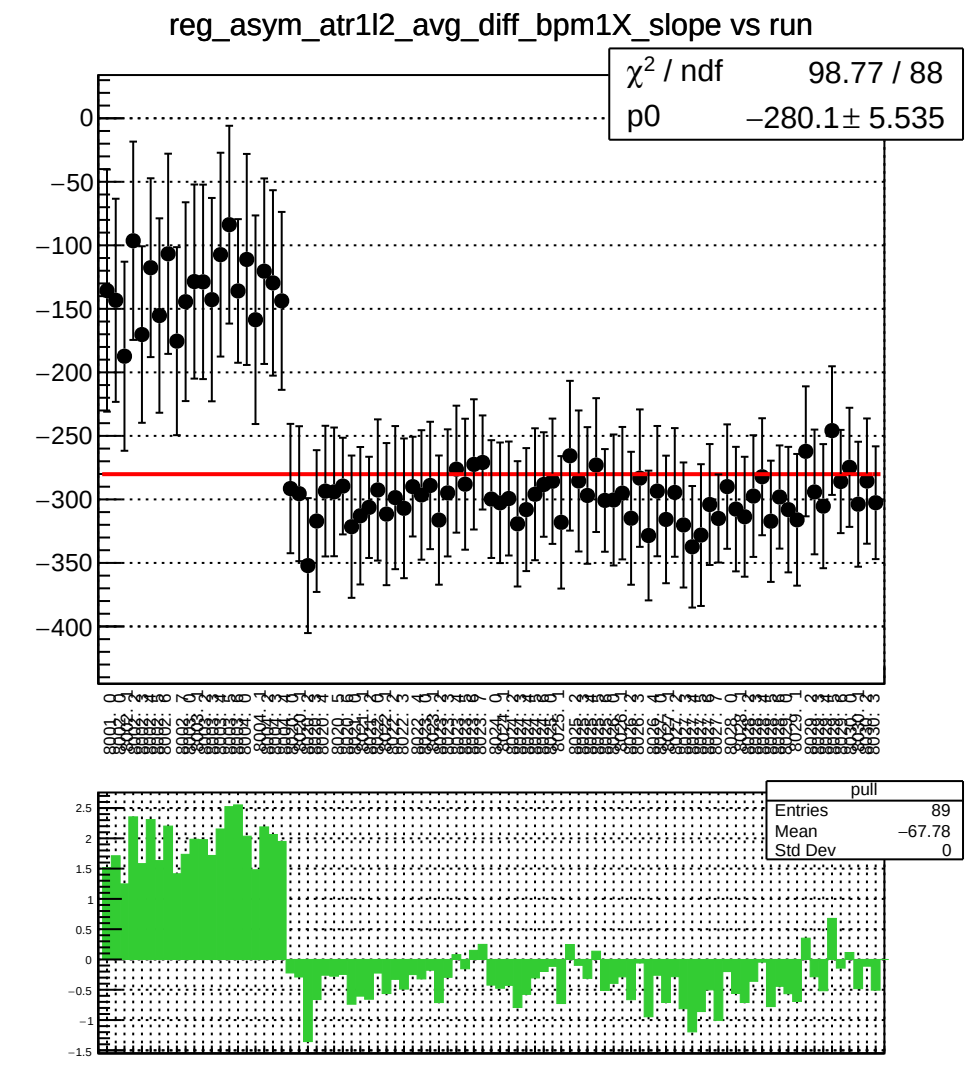

pull1D
Entries 89
Mean −0.0008651
Std Dev 0.2858

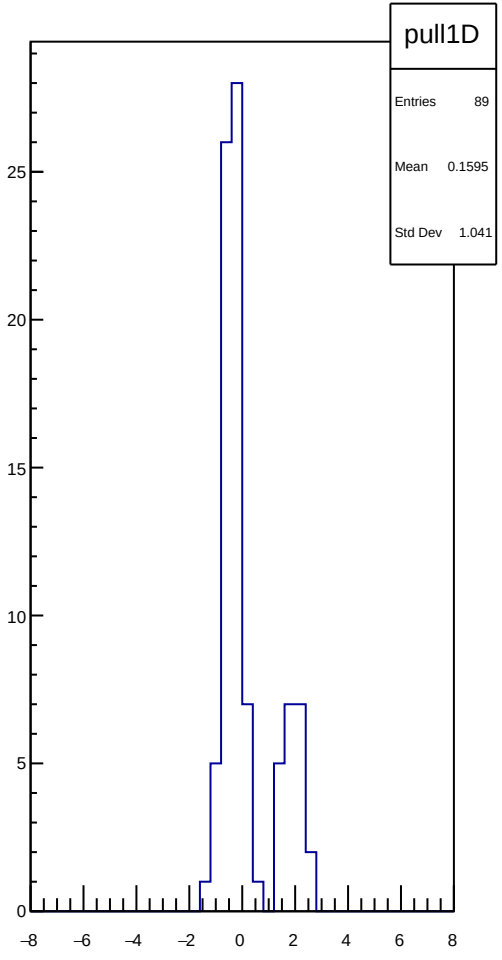

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 36.86 / 88
p0 −251.4 ± 7.311
pull
Entries 89
Mean −119.2
Std Dev 0
pull1D
Entries 89
Mean 0.07227
Std Dev 0.6395

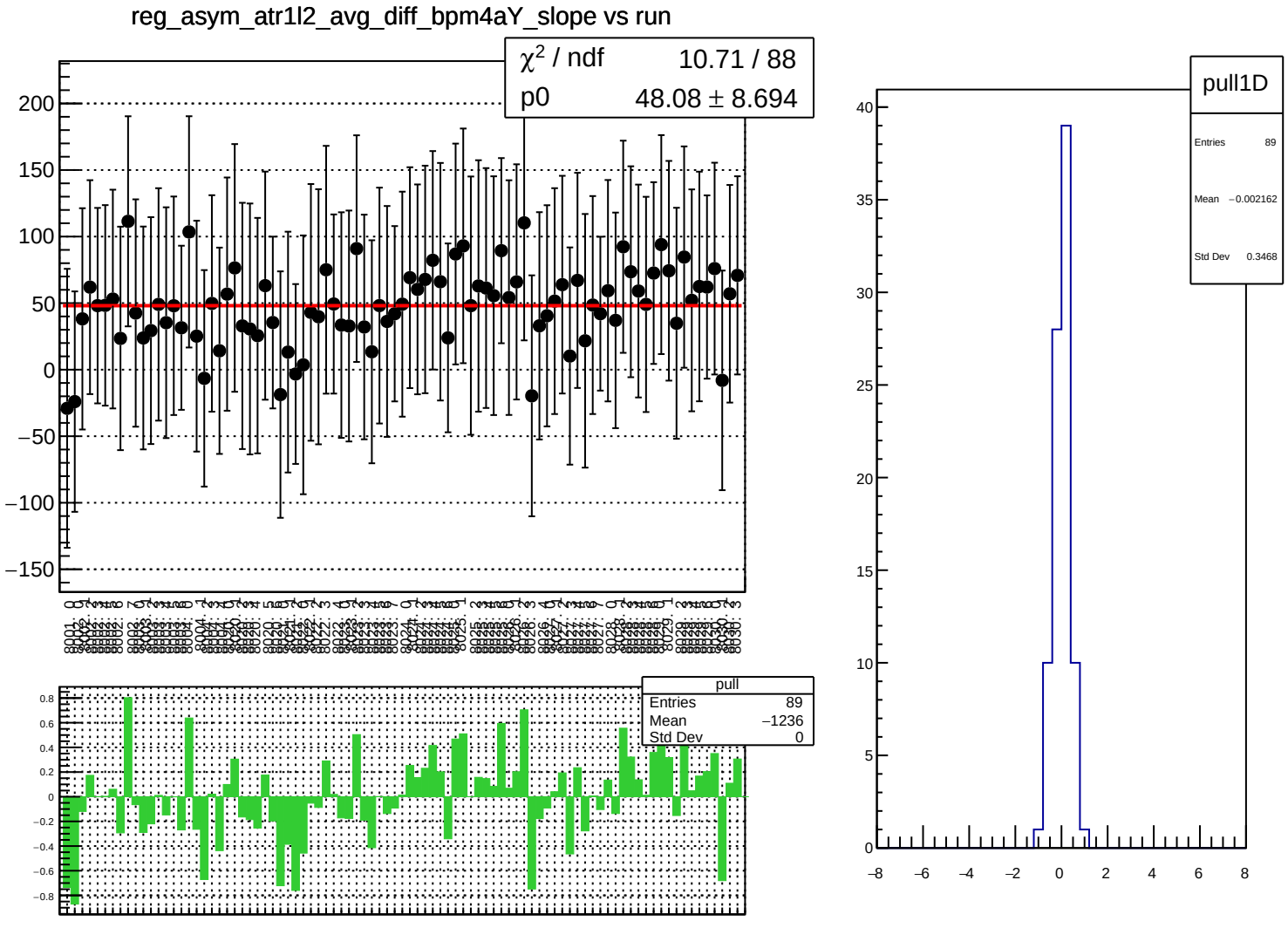

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.987 / 88
p0 4.649 ± 11.82
pull
Entries 89
Mean −2157
Std Dev 0

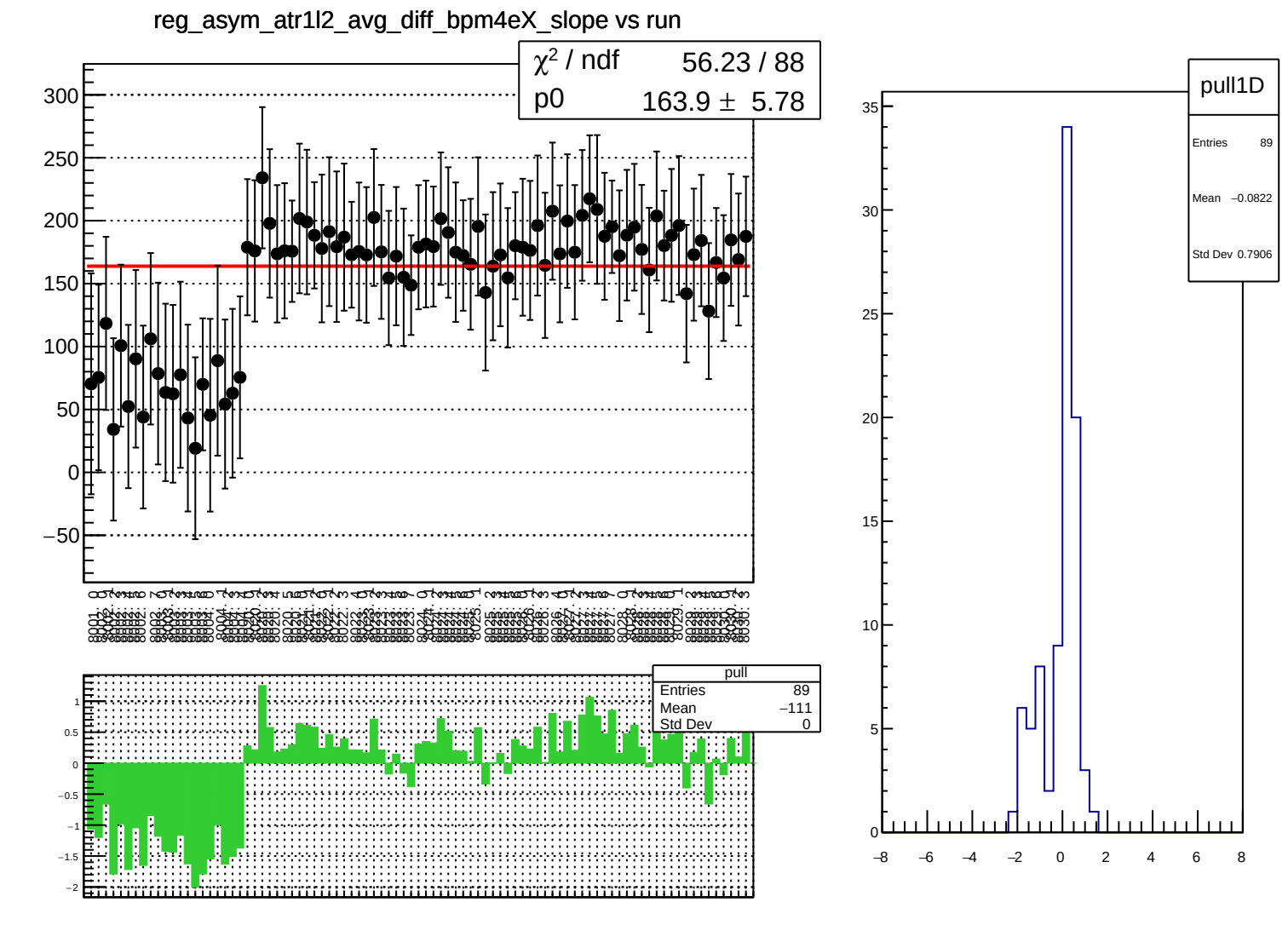

pull1D
Entries 89
Mean −0.001256
Std Dev 0.2802

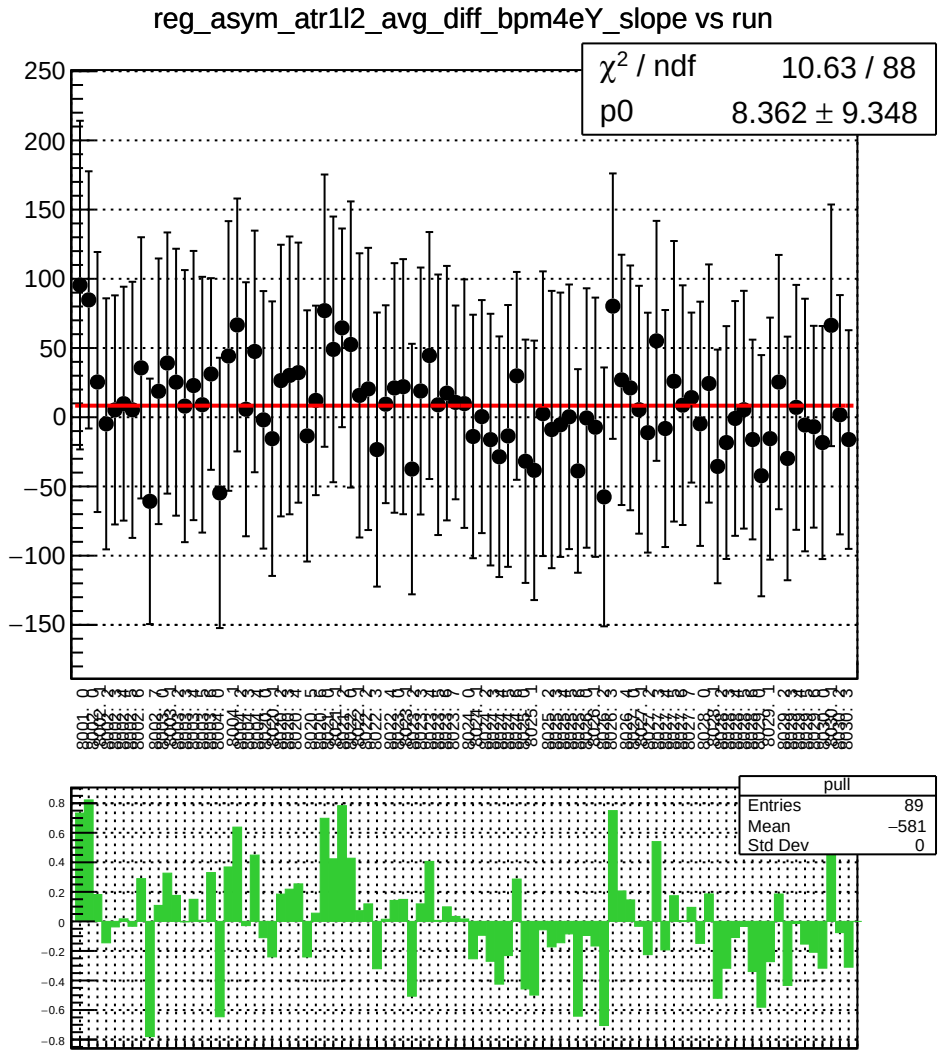

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 222.8 / 88
p0 154.4 ± 0.5299
175
170
165
160
155
150
145
140
pull
Entries 89
Mean 100.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean 0.4908
Std Dev 1.504
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

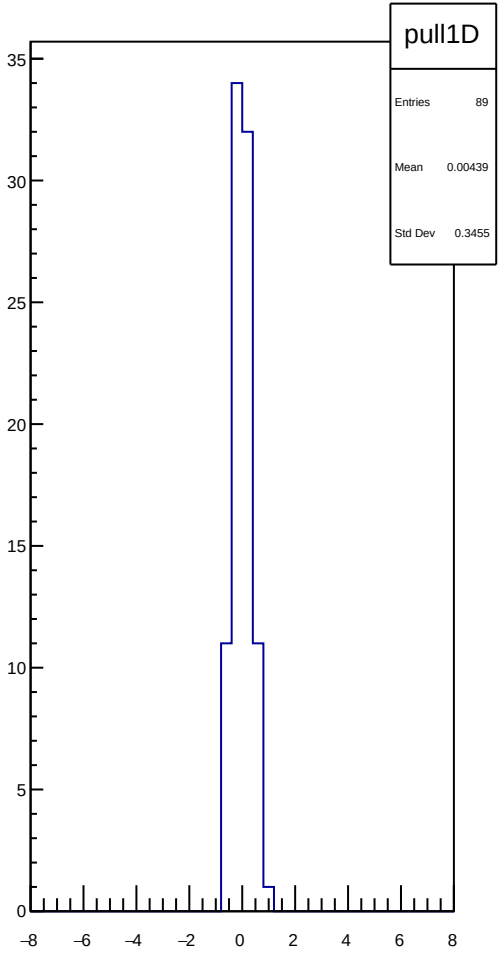

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 98.77 / 88
p0 −280.1 ± 5.535
pull
Entries 89
Mean −67.78
Std Dev 0

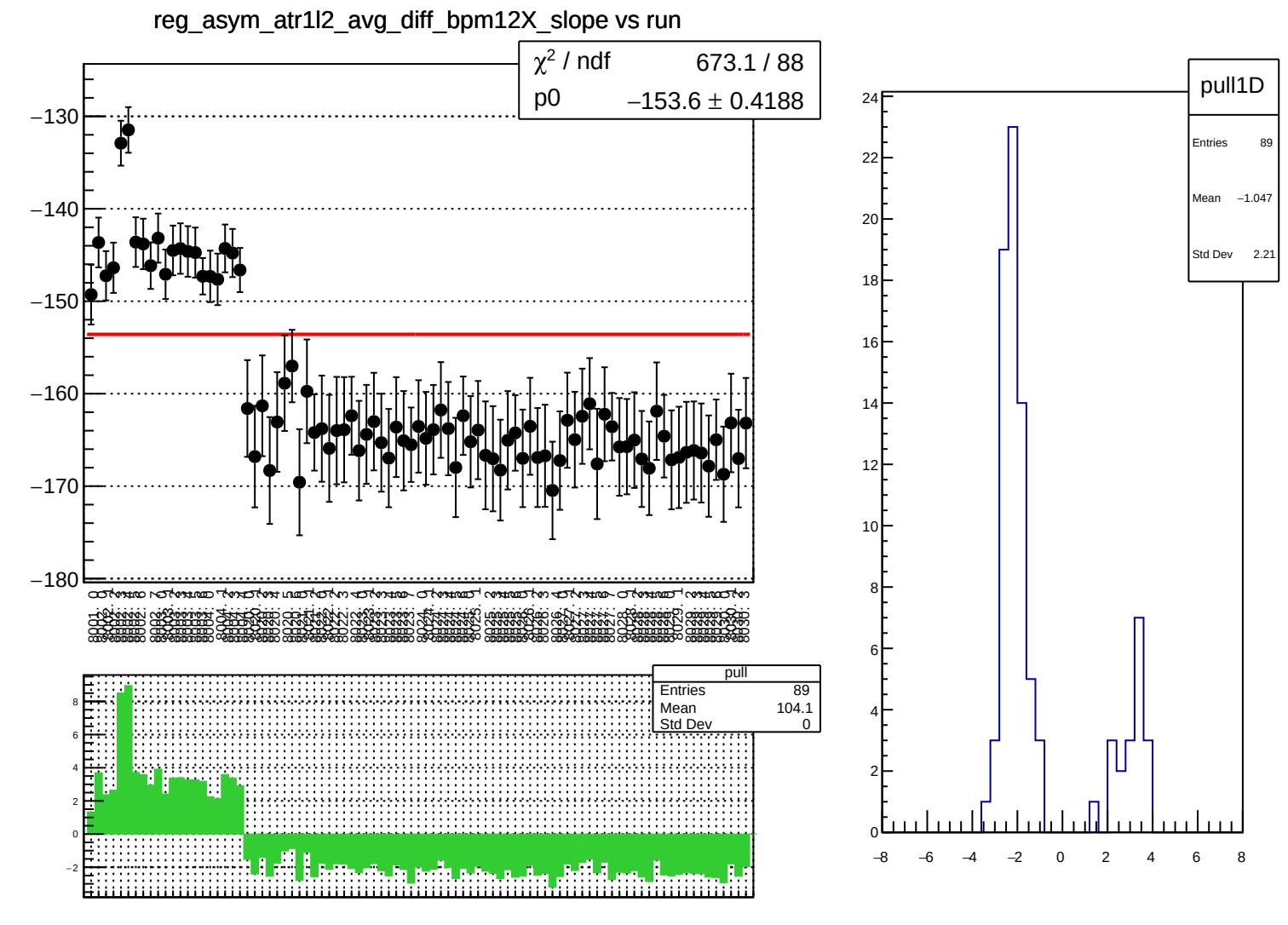

pull1D
Entries 89
Mean 0.1595
Std Dev 1.041

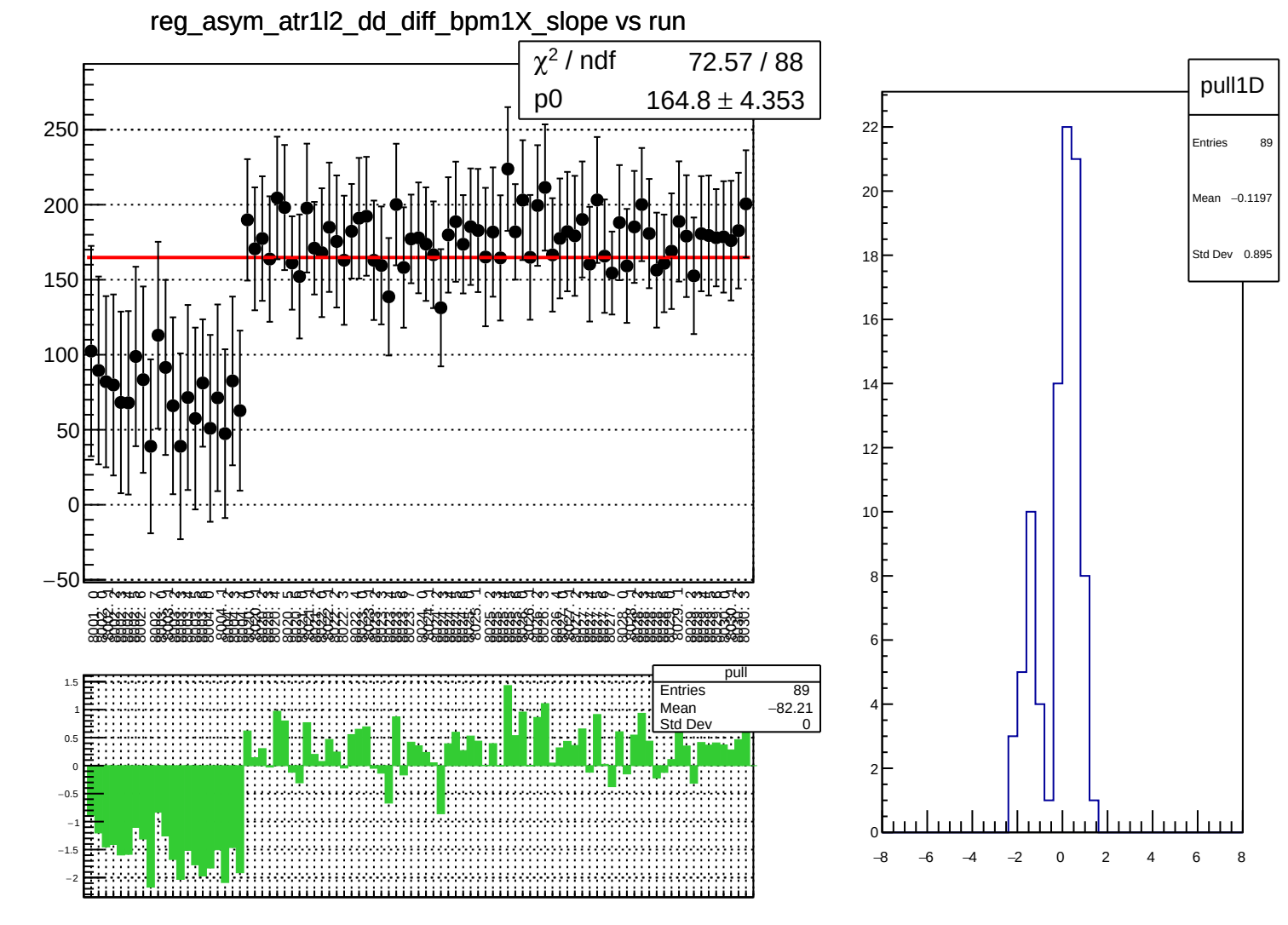

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 10.71 / 88
p0 48.08 ± 8.694
pull
Entries 89
Mean −1236
Std Dev 0
pull1D
Entries 89
Mean −0.002162
Std Dev 0.3468

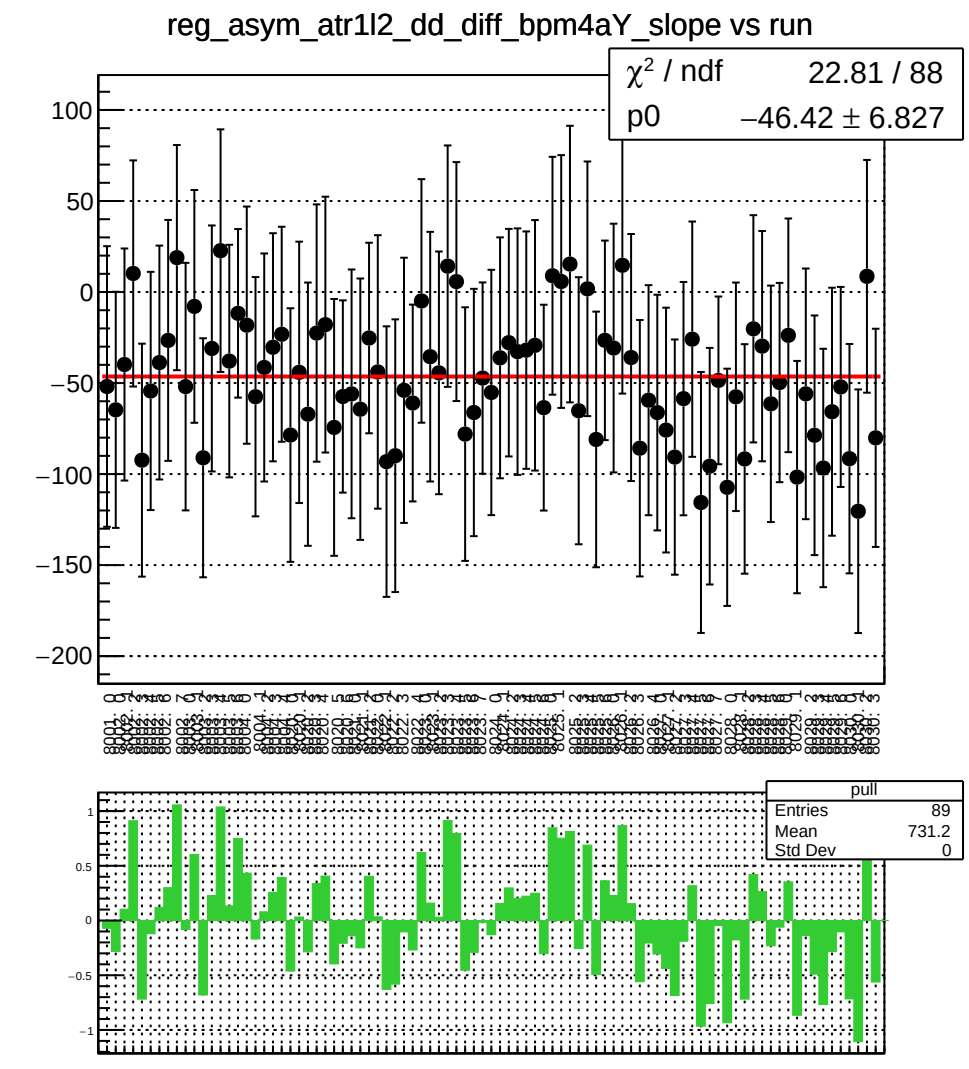

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 56.23 / 88
p0 163.9 ± 5.78
pull
Entries 89
Mean −111
Std Dev 0
pull1D
Entries 89
Mean −0.0822
Std Dev 0.7906

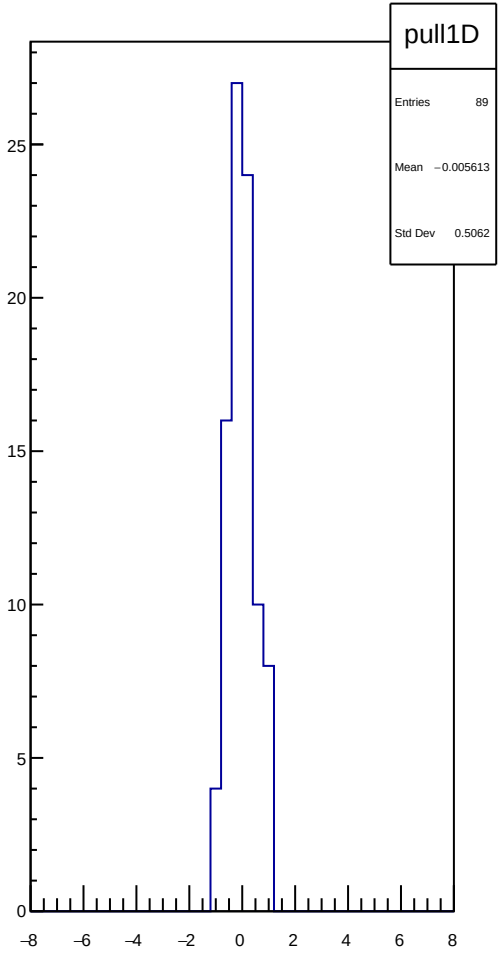

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 10.63 / 88
p0 8.362 ± 9.348
pull
Entries 89
Mean −581
Std Dev 0

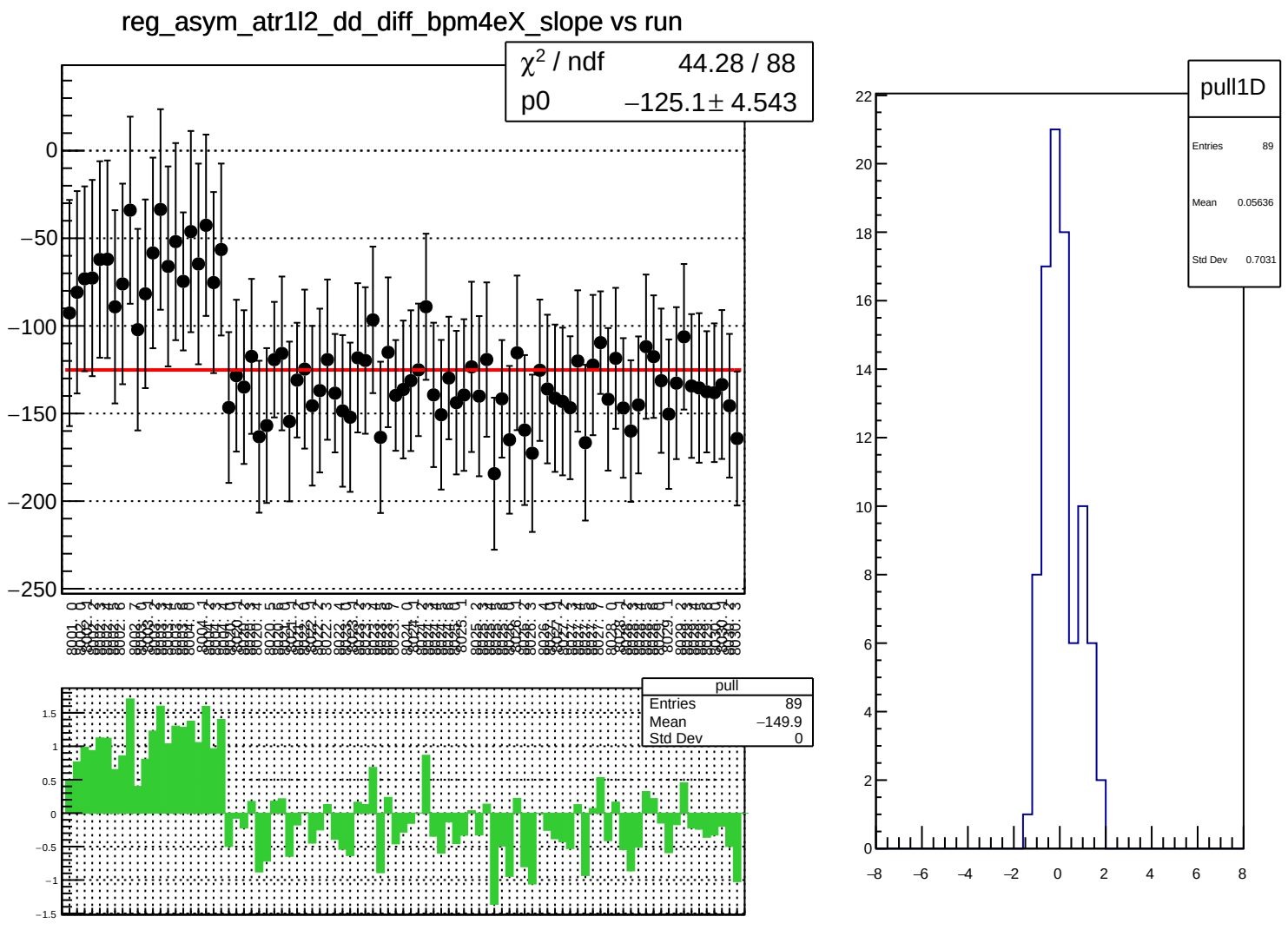

pull1D
Entries 89
Mean 0.00439
Std Dev 0.3455

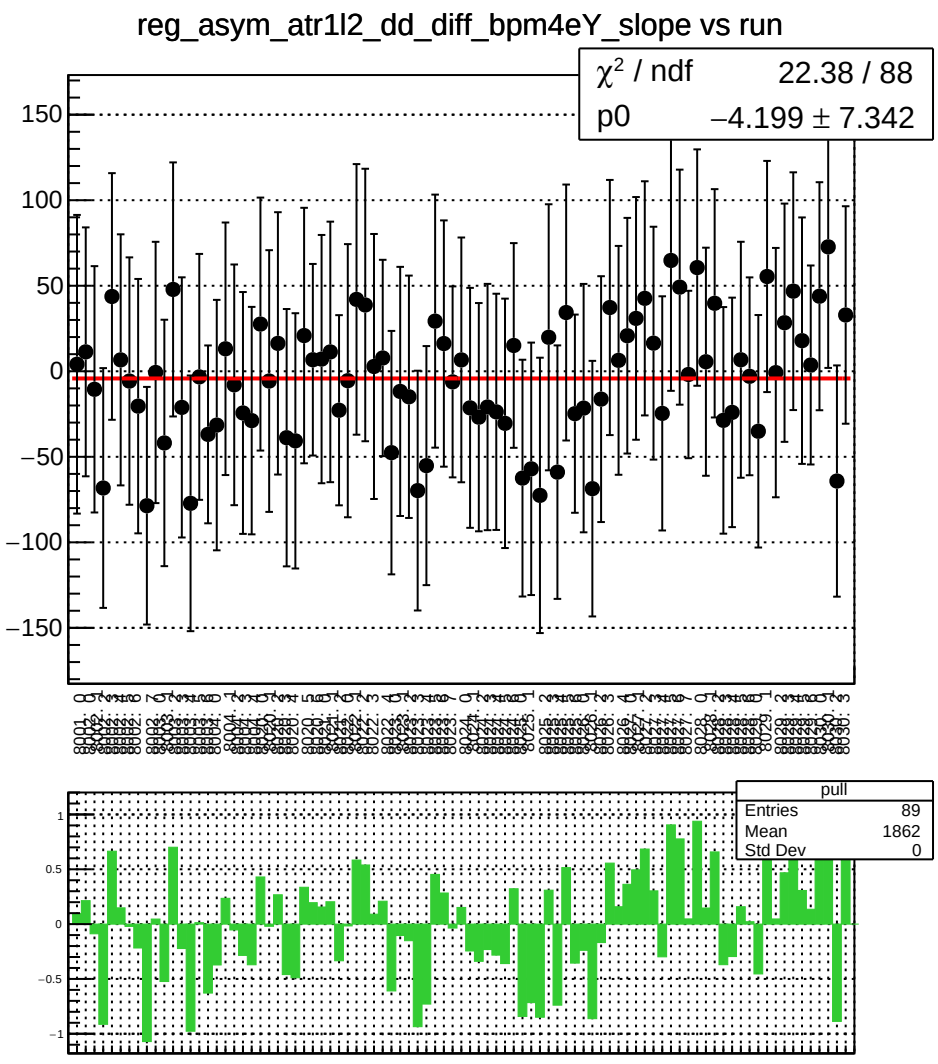

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 673.1 / 88
p0 −153.6 ± 0.4188
pull
Entries 89
Mean 104.1
Std Dev 0
pull1D
Entries 89
Mean −1.047
Std Dev 2.21

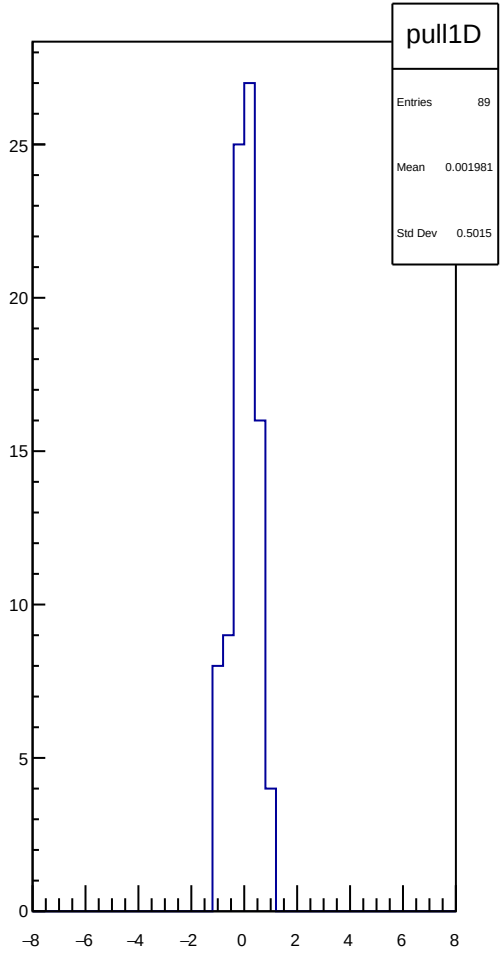

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 72.57 / 88
p0 164.8 ± 4.353
pull
Entries 89
Mean −82.21
Std Dev 0
pull1D
Entries 89
Mean −0.1197
Std Dev 0.895

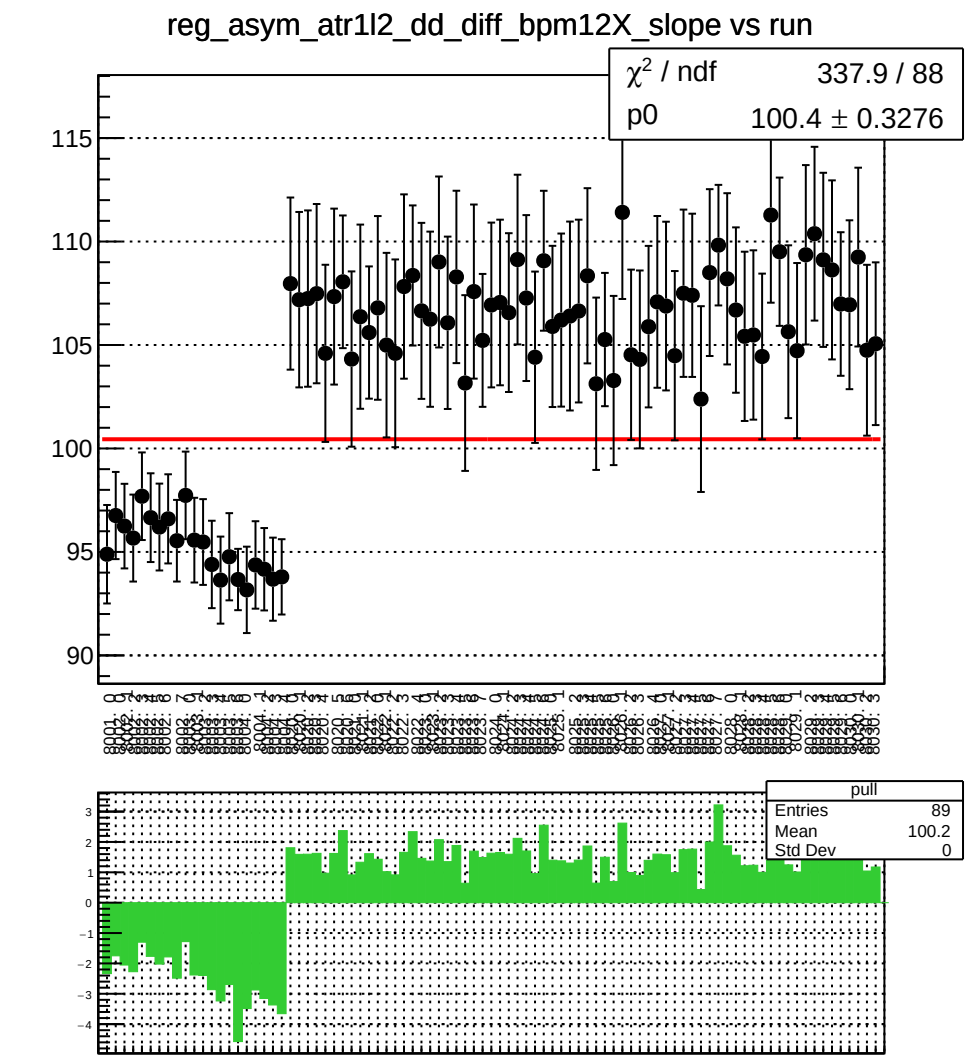

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 22.81 / 88
p0 −46.42 ± 6.827
pull
Entries 89
Mean 731.2
Std Dev 0

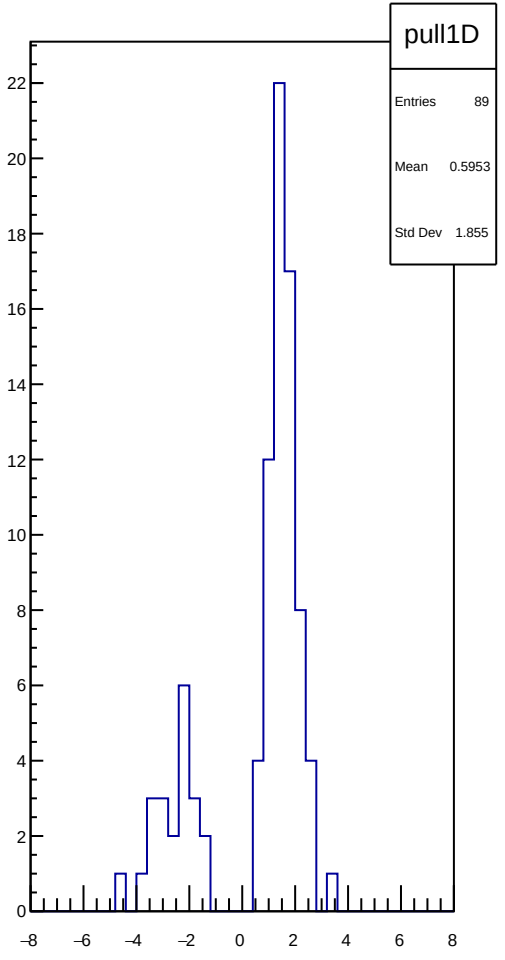

pull1D
Entries 89
Mean −0.005613
Std Dev 0.5062

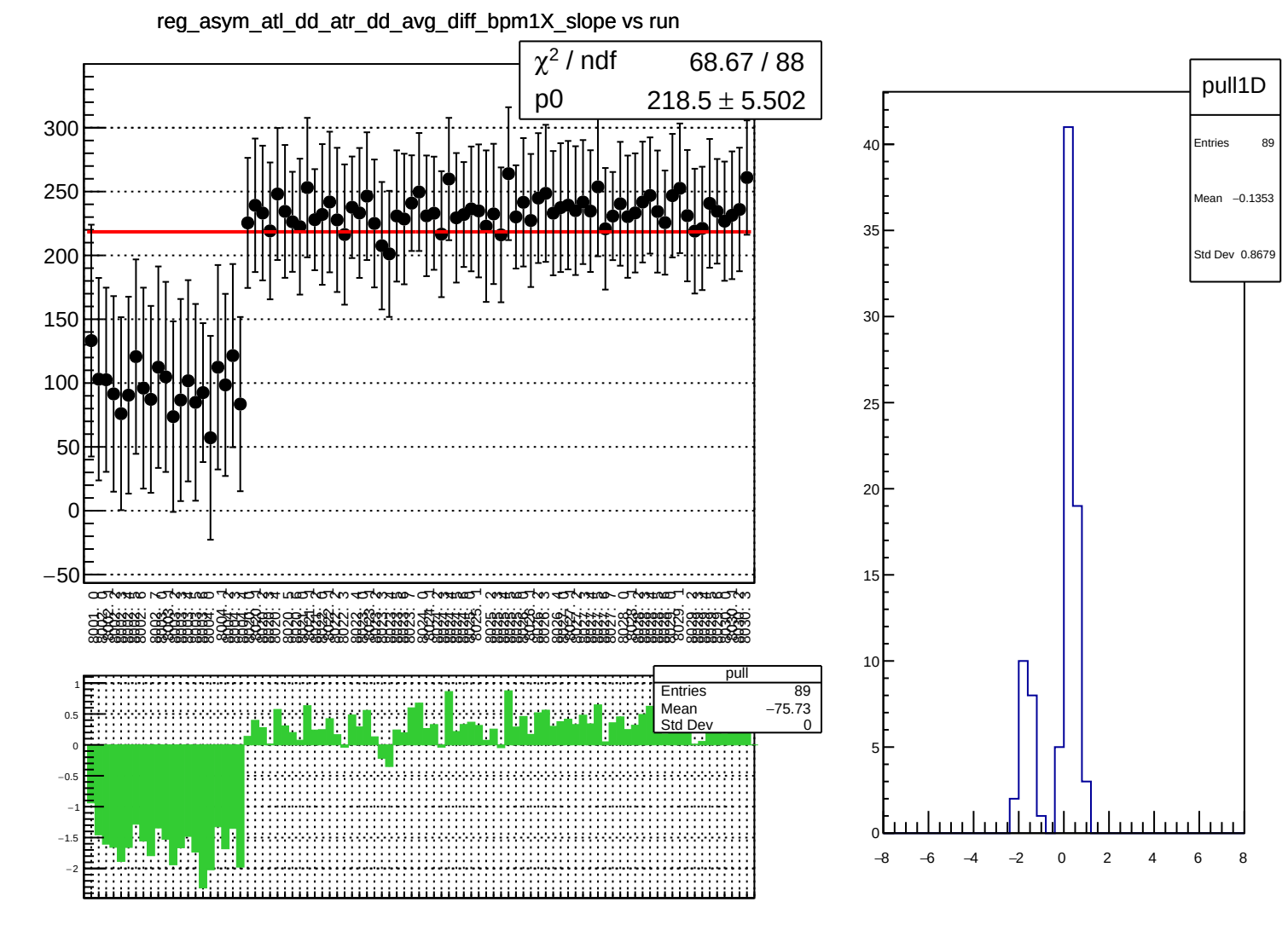

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 44.28 / 88
p0 −125.1 ± 4.543
0
−50
−100
−150
−200
−250
pull
Entries 89
Mean −149.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 89
Mean 0.05636
Std Dev 0.7031
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

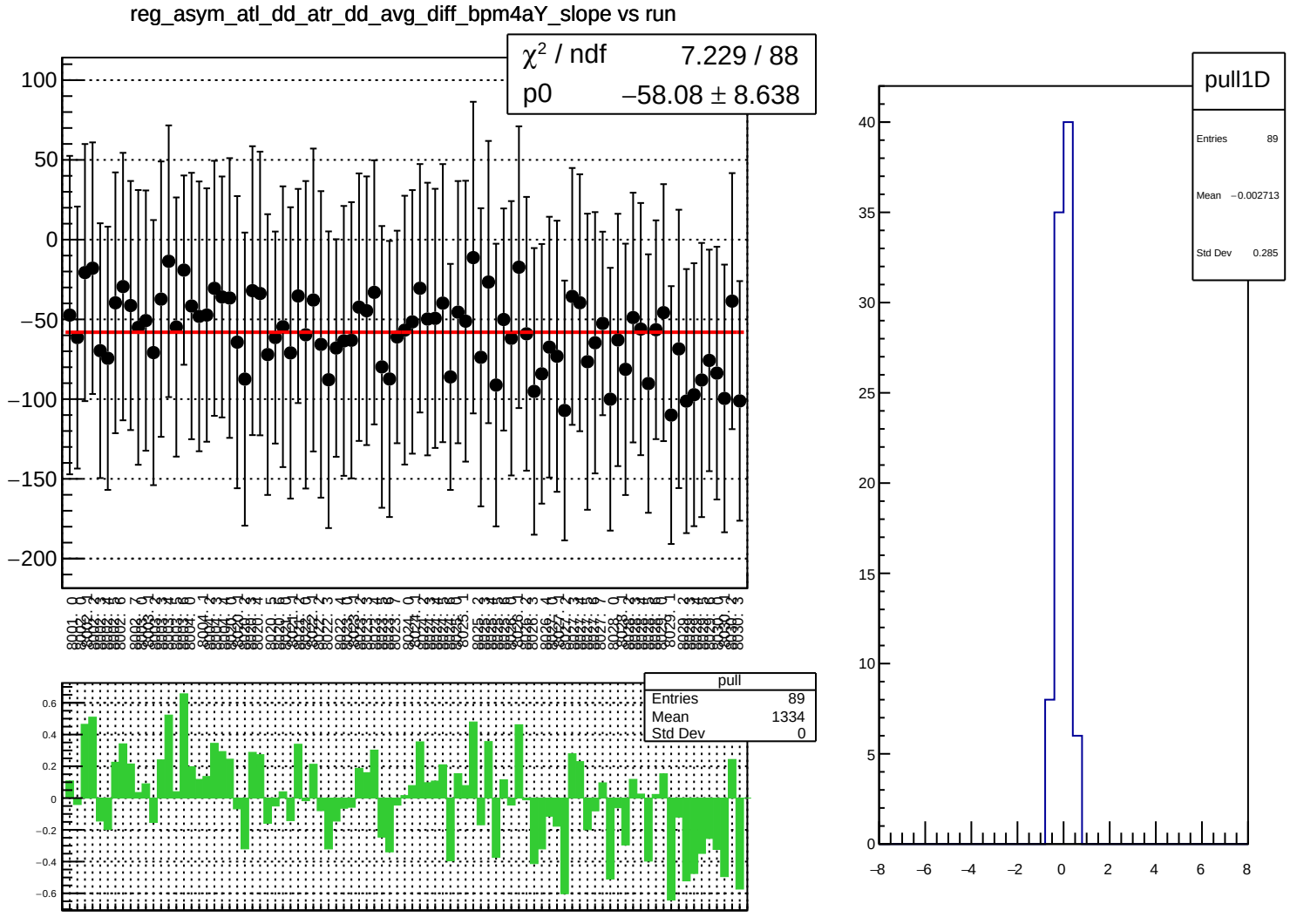

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 22.38 / 88
p0 −4.199 ± 7.342
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean 1862
Std Dev 0
1
0.5
0
−0.5
−1

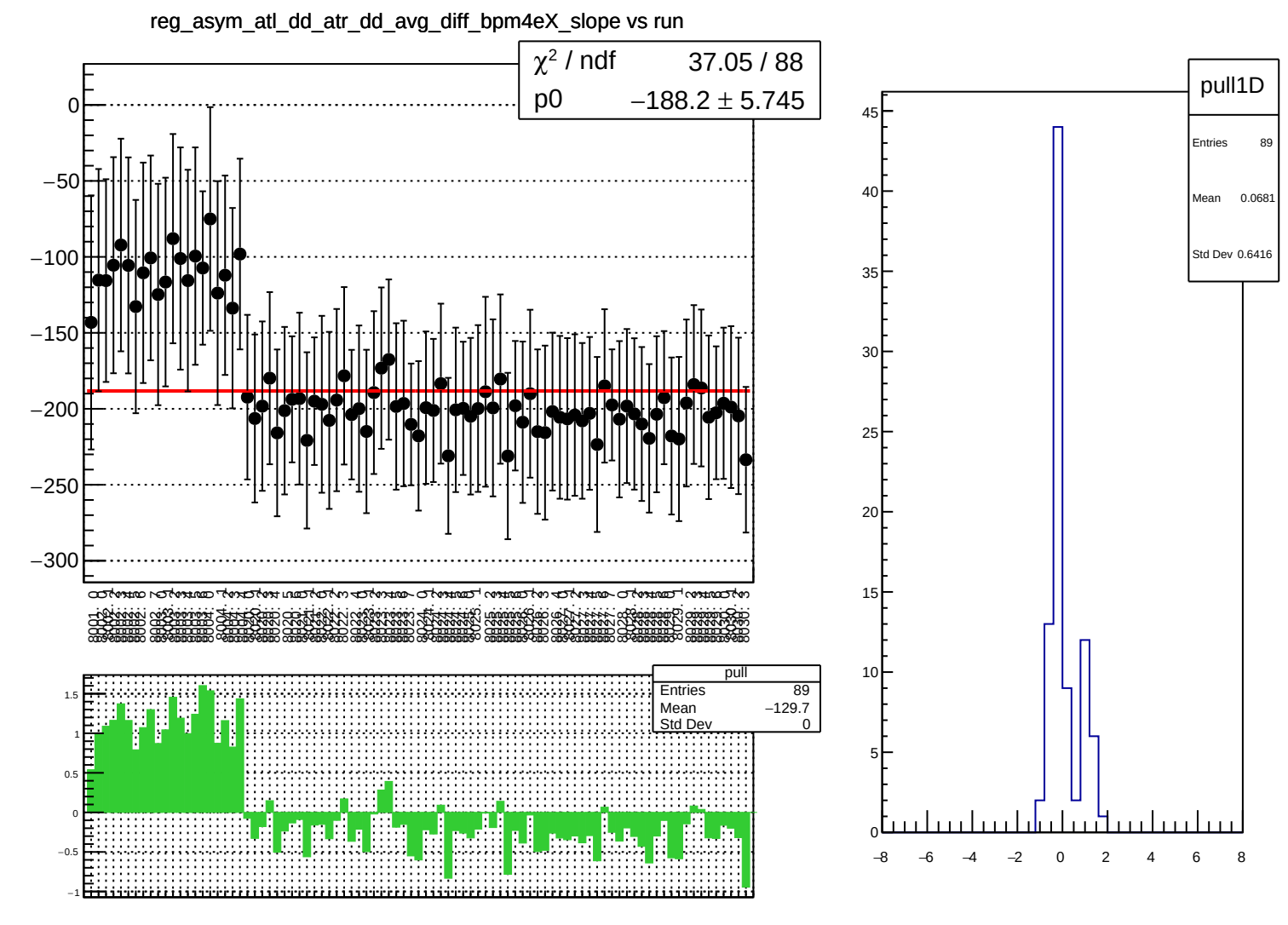

pull1D
Entries 89
Mean 0.001981
Std Dev 0.5015
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

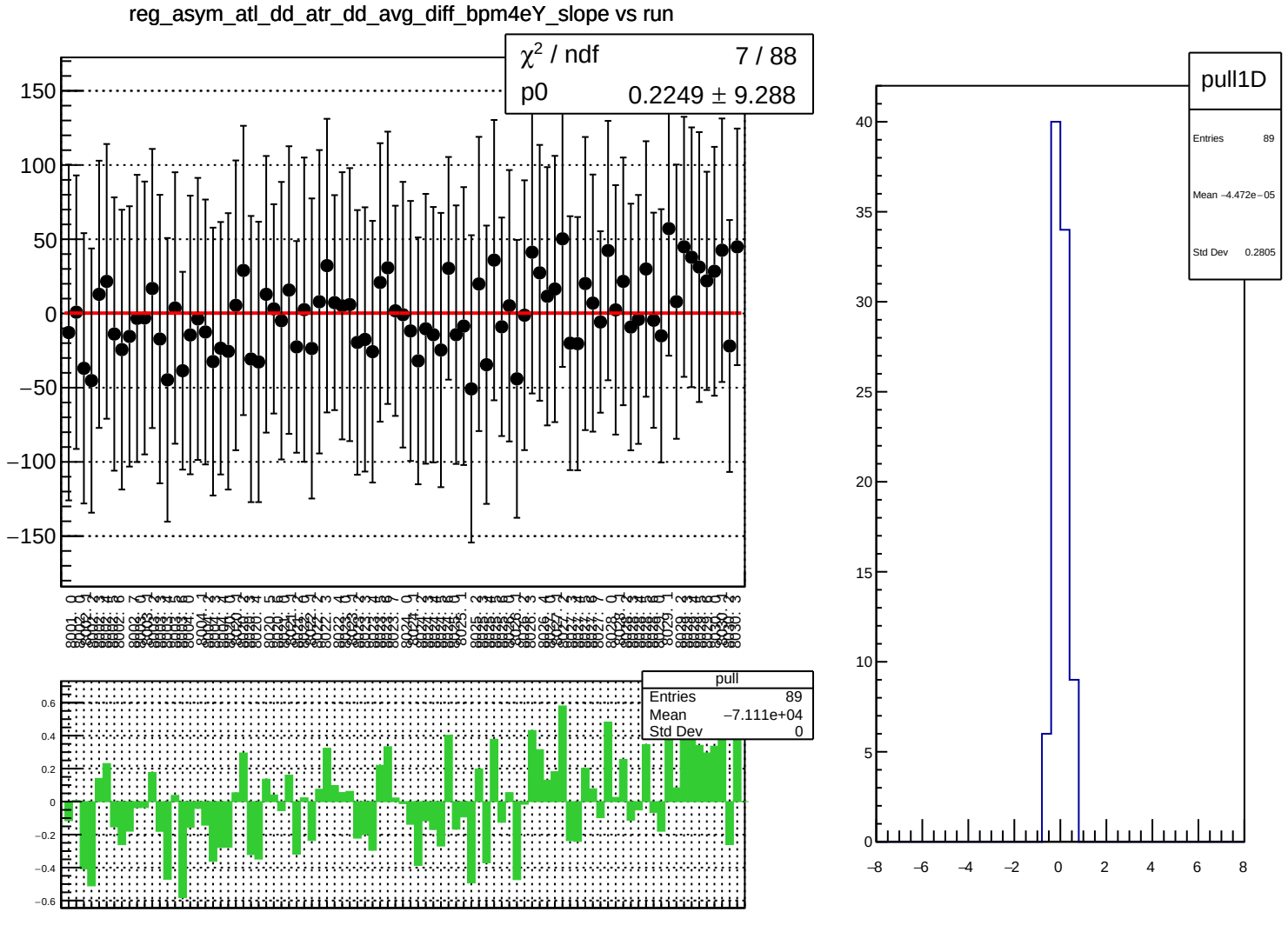

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 337.9 / 88
p0 100.4 ± 0.3276
pull
Entries 89
Mean 100.2
Std Dev 0

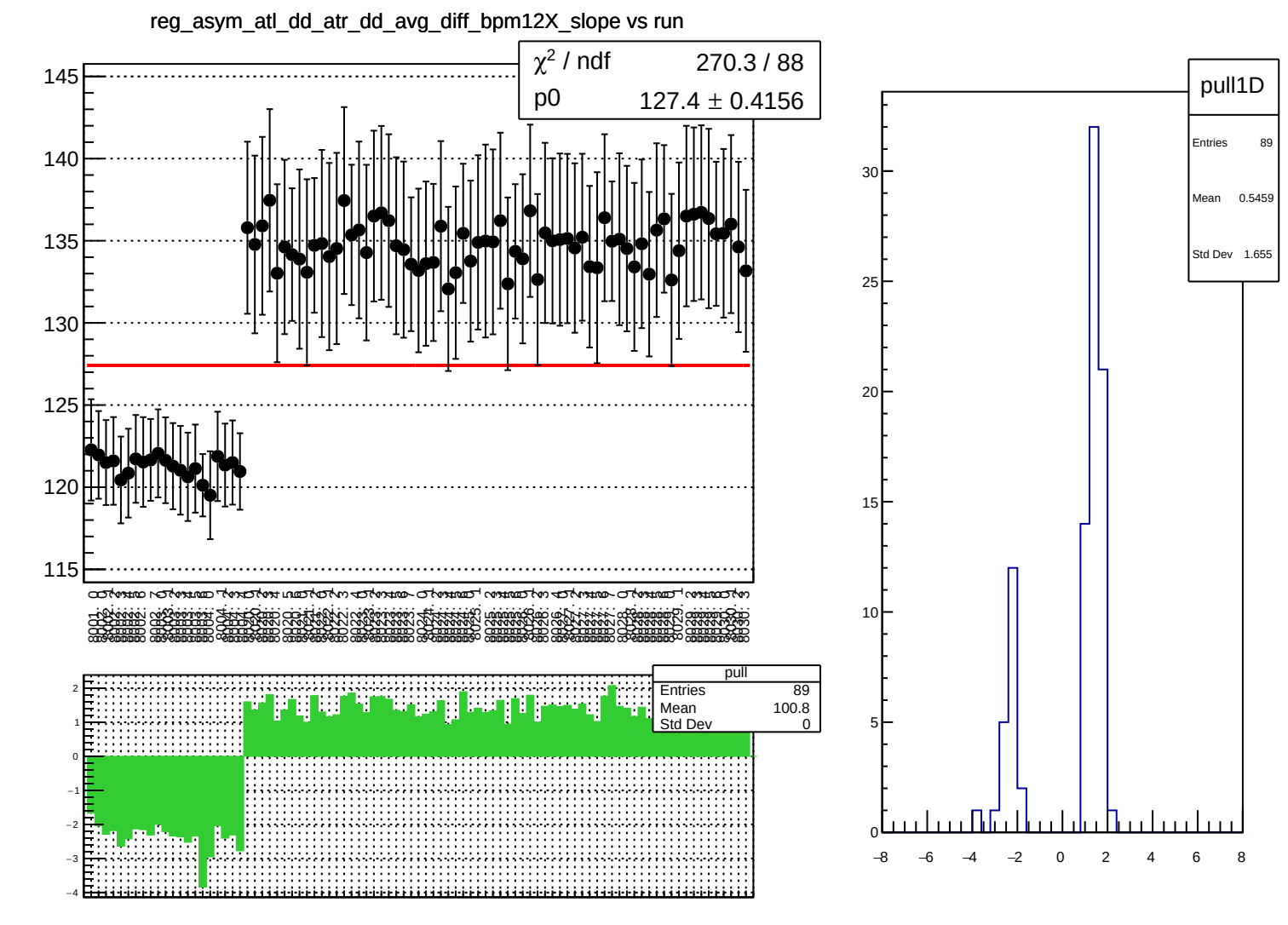

pull1D
Entries 89
Mean 0.5953
Std Dev 1.855

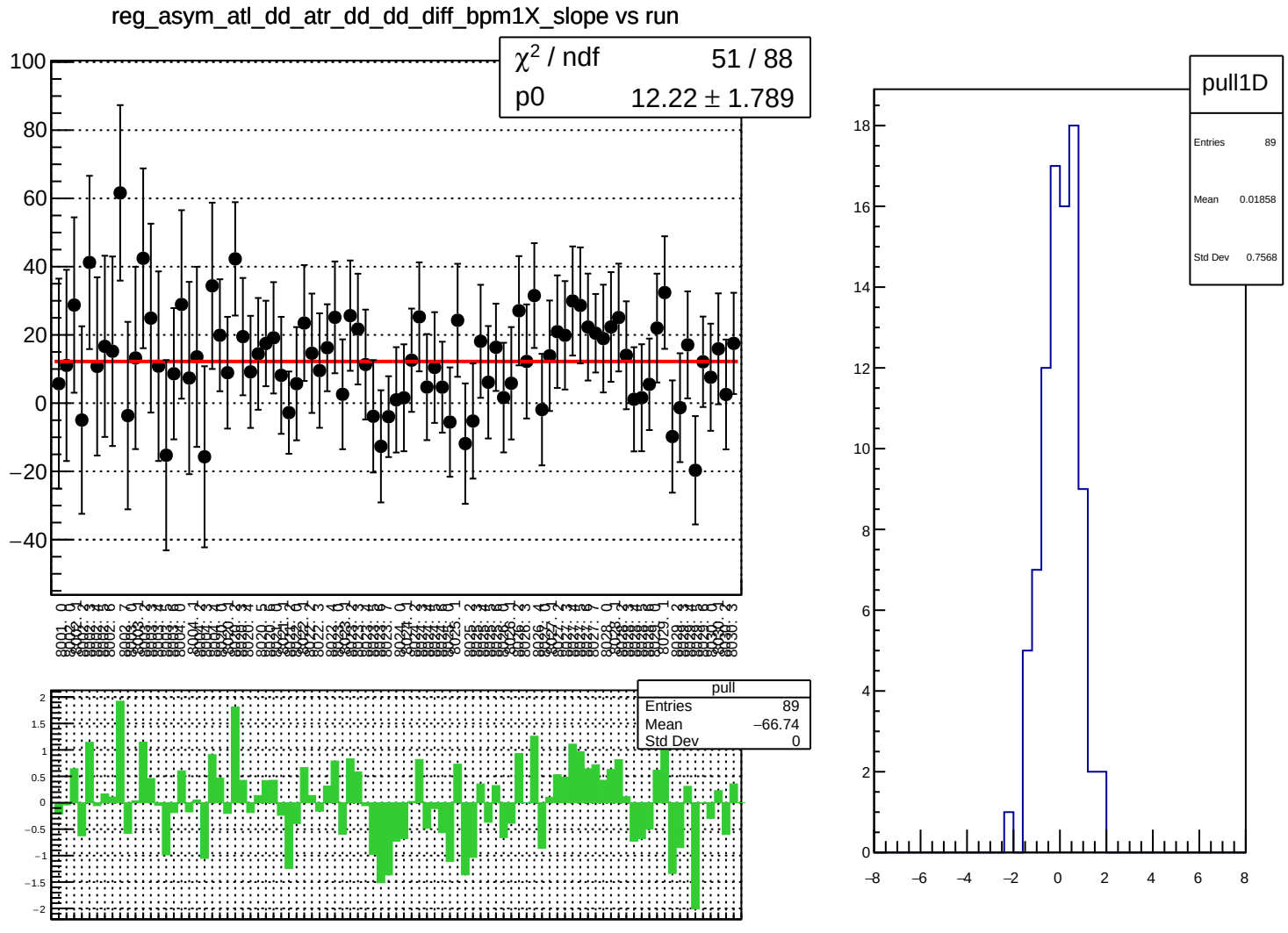

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 68.67 / 88
p0 218.5 ± 5.502
pull
Entries 89
Mean −75.73
Std Dev 0
pull1D
Entries 89
Mean −0.1353
Std Dev 0.8679

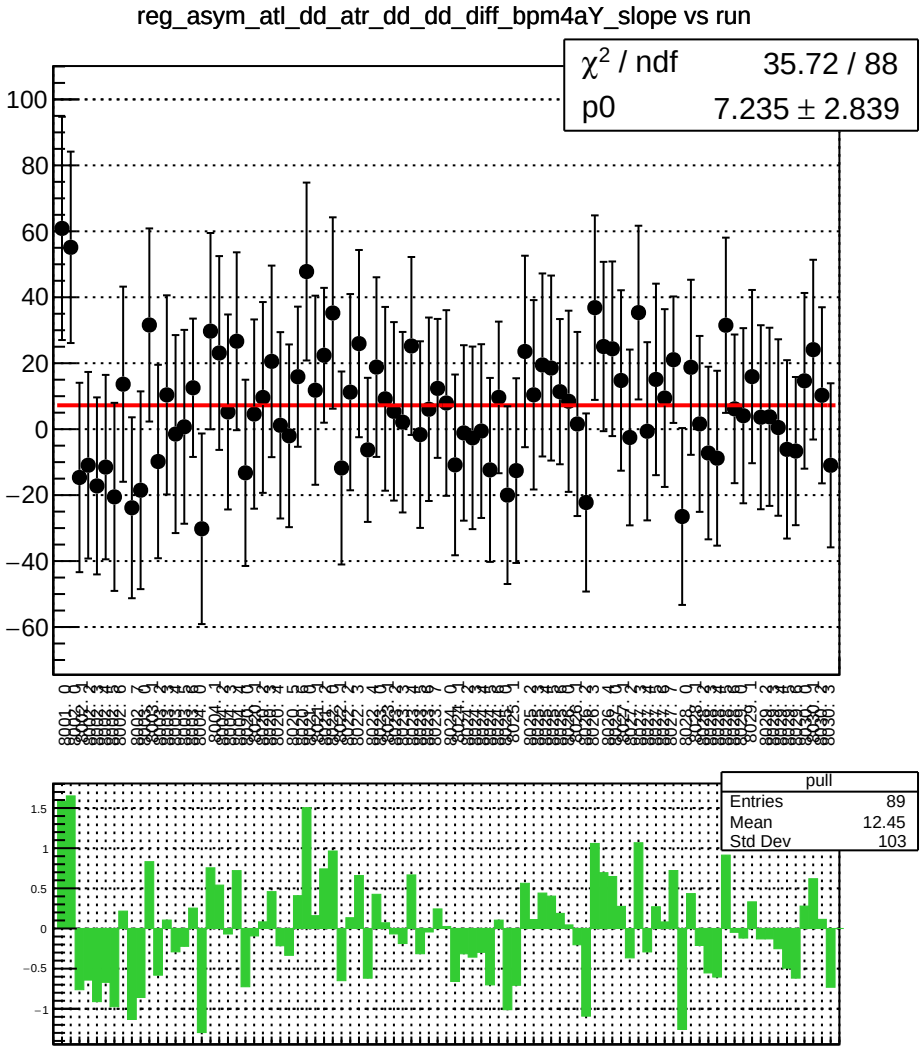

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.229 / 88
p0 −58.08 ± 8.638
pull
Entries 89
Mean 1334
Std Dev 0
pull1D
Entries 89
Mean −0.002713
Std Dev 0.285

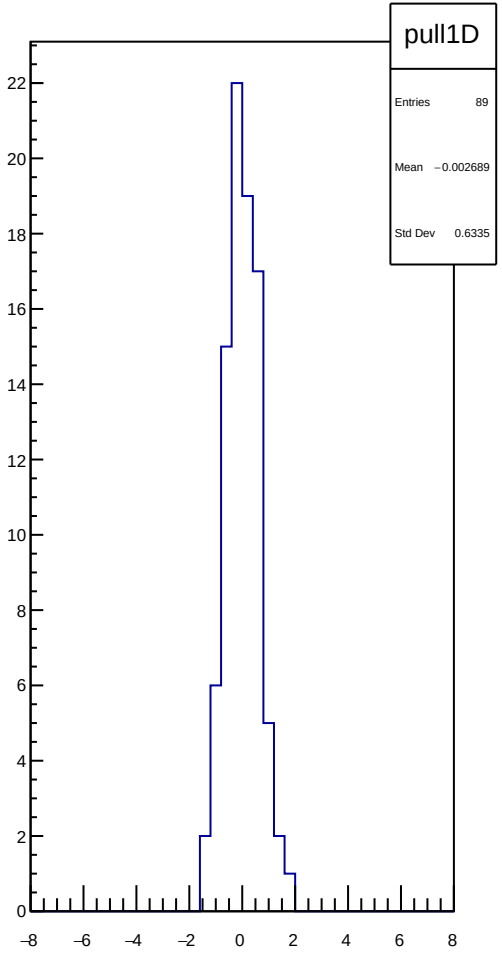

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 37.05 / 88
p0 −188.2 ± 5.745
pull
Entries 89
Mean −129.7
Std Dev 0
pull1D
Entries 89
Mean 0.0681
Std Dev 0.6416

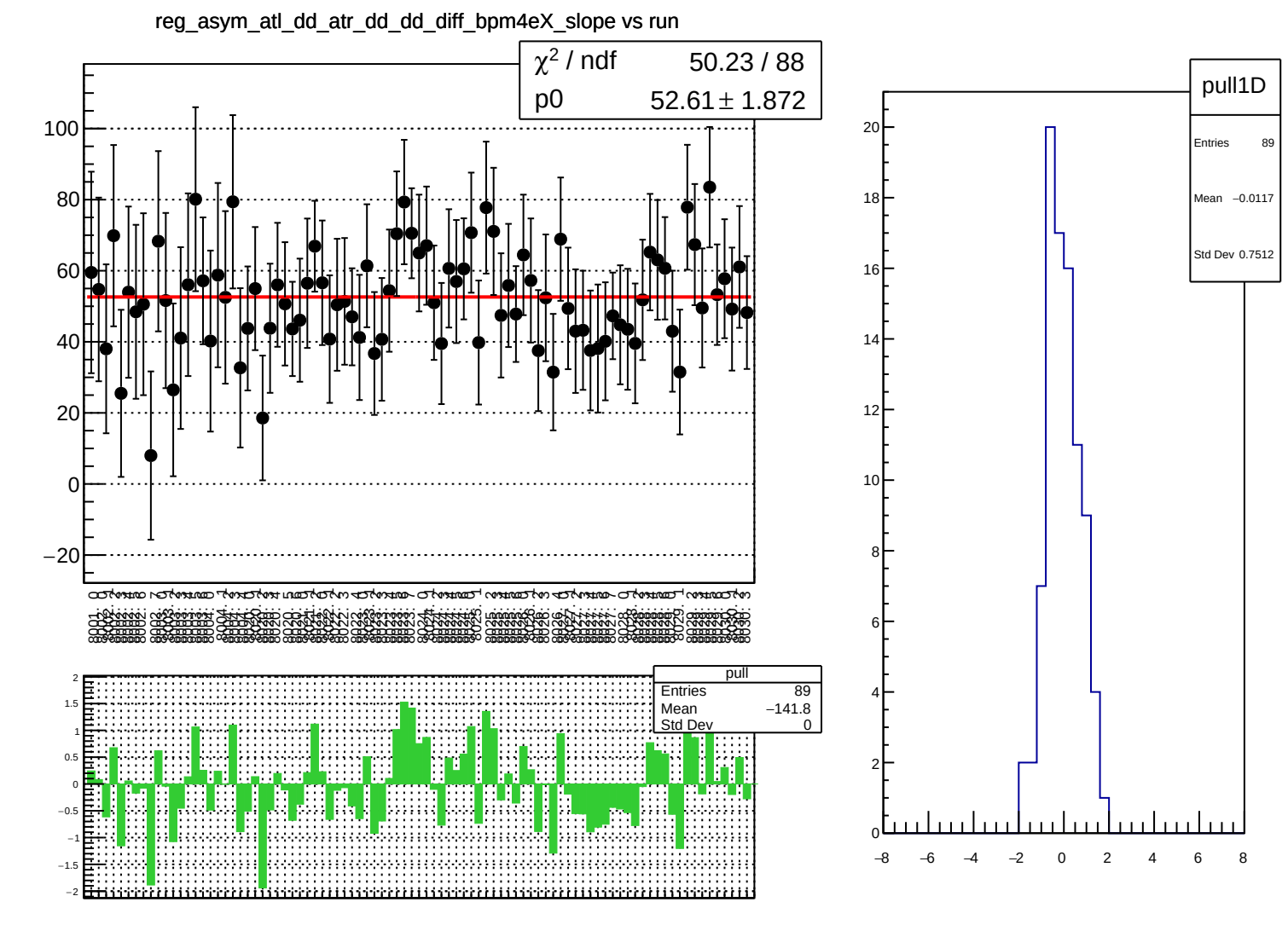

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 7 / 88
p0 0.2249 ± 9.288
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −7.111e+04
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 89
Mean −4.472e−05
Std Dev 0.2805
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

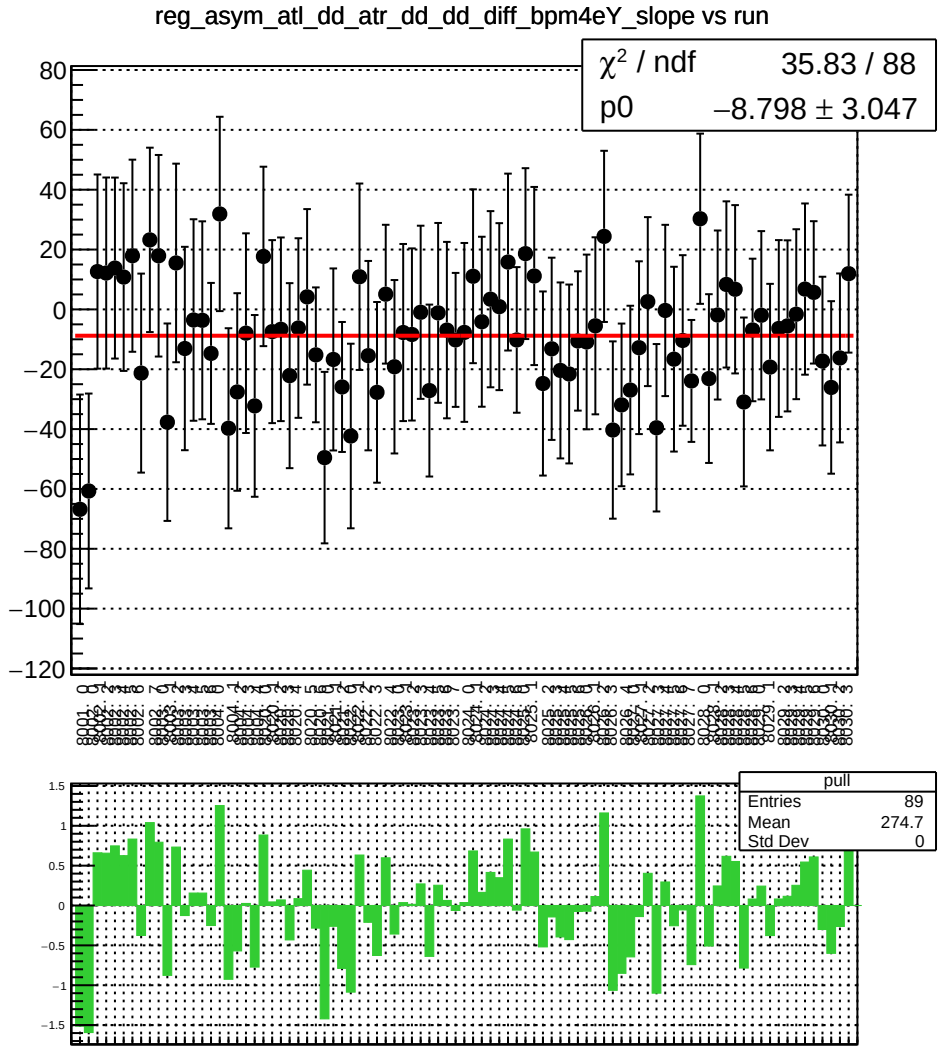

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 270.3 / 88
p0 127.4 ± 0.4156
145
140
135
130
125
120
115
pull
Entries 89
Mean 100.8
Std Dev 0
2
1
0
−1
−2
−3
−4
pull1D
Entries 89
Mean 0.5459
Std Dev 1.655
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

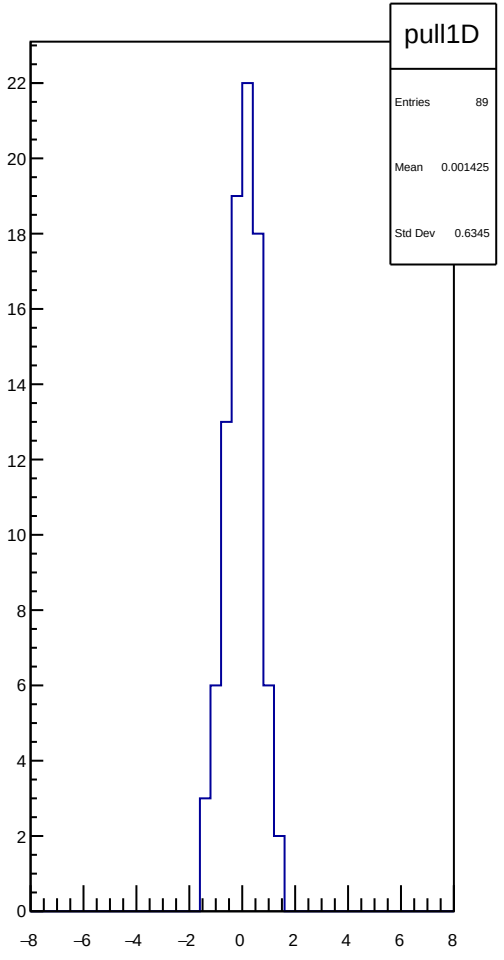

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 51 / 88
p0 12.22 ± 1.789
pull
Entries 89
Mean −66.74
Std Dev 0
pull1D
Entries 89
Mean 0.01858
Std Dev 0.7568

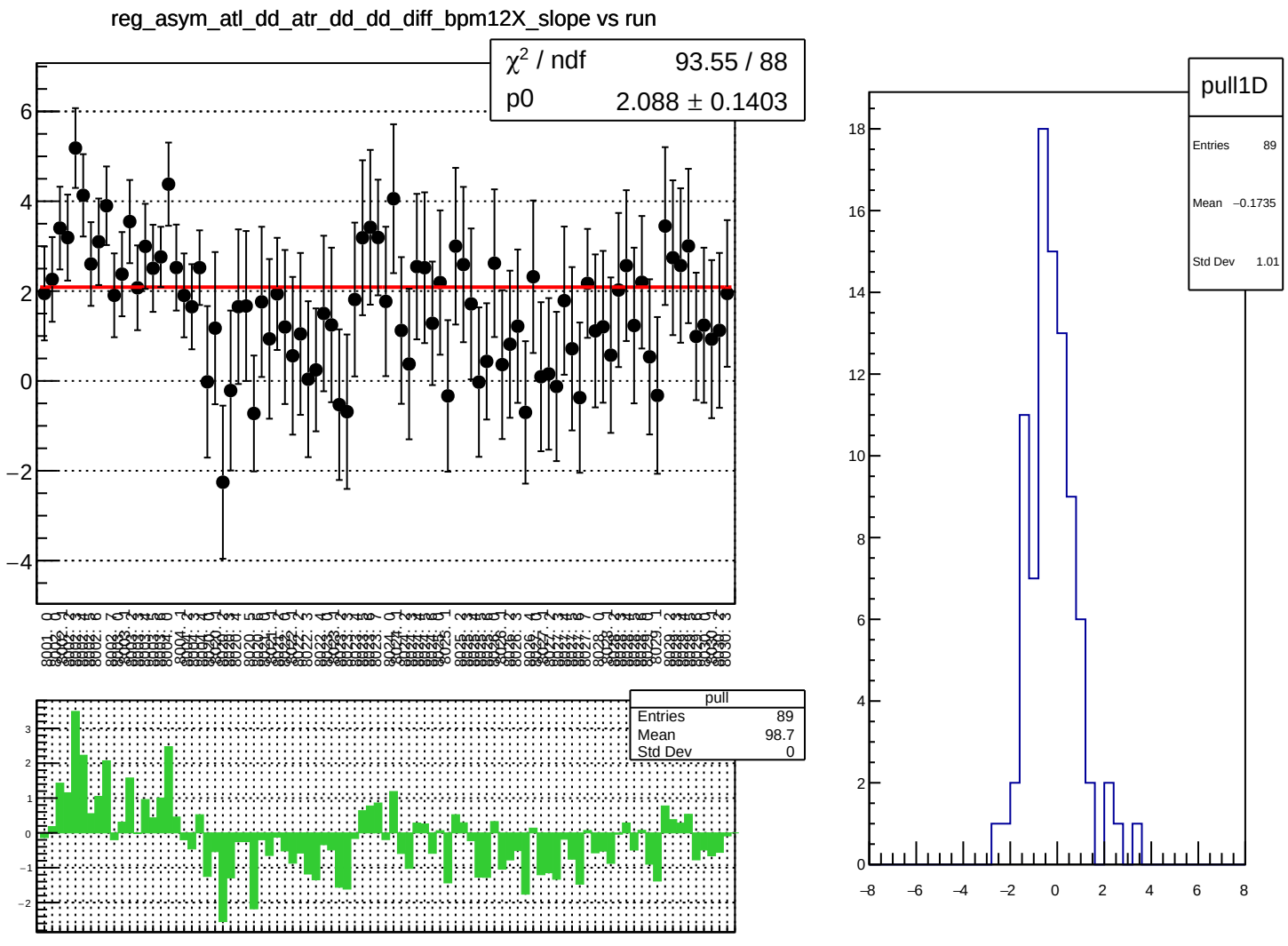

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 35.72 / 88
p0 7.235 ± 2.839
pull
Entries 89
Mean 12.45
Std Dev 103

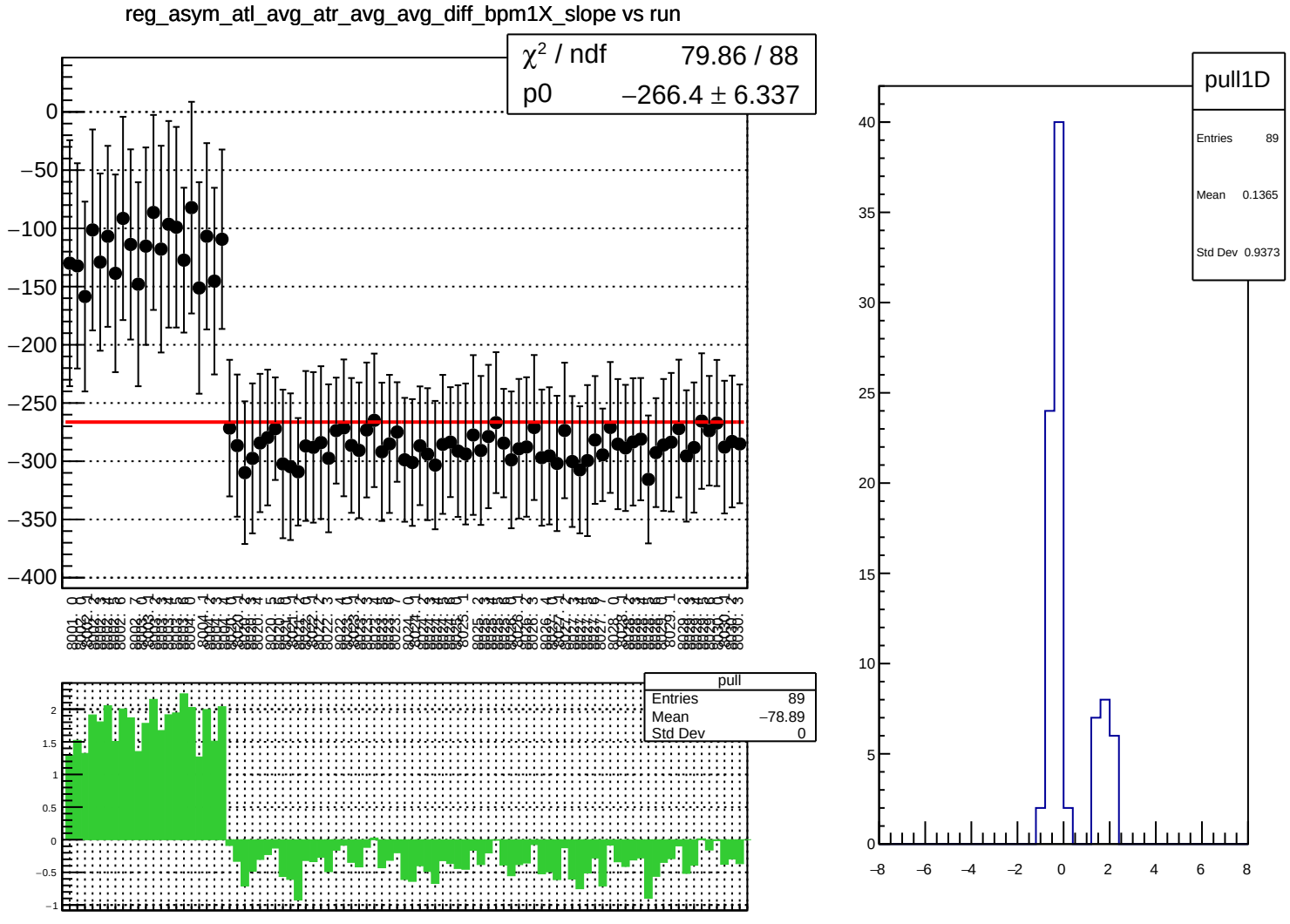

pull1D
Entries 89
Mean −0.002689
Std Dev 0.6335

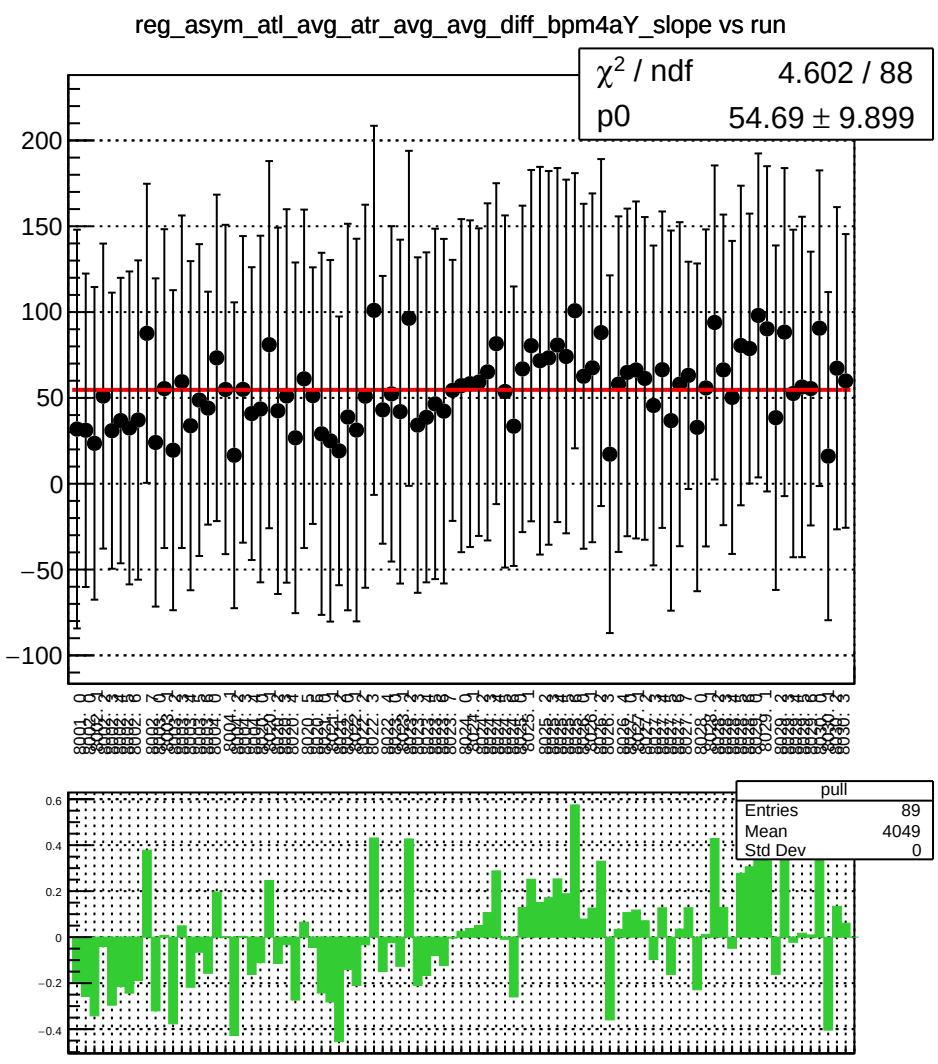

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 50.23 / 88
p0 52.61 ± 1.872
pull
Entries 89
Mean −141.8
Std Dev 0
pull1D
Entries 89
Mean −0.0117
Std Dev 0.7512

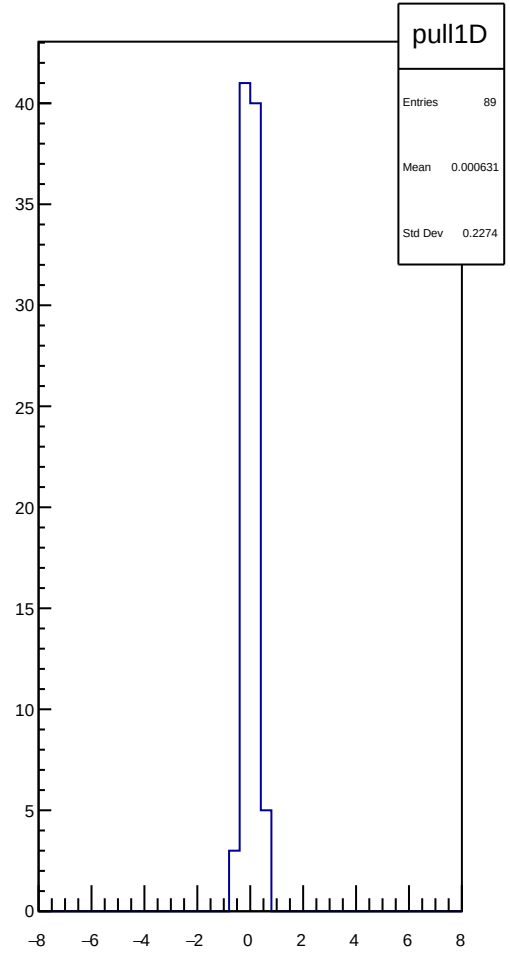

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 35.83 / 88
p0 −8.798 ± 3.047
pull
Entries 89
Mean 274.7
Std Dev 0

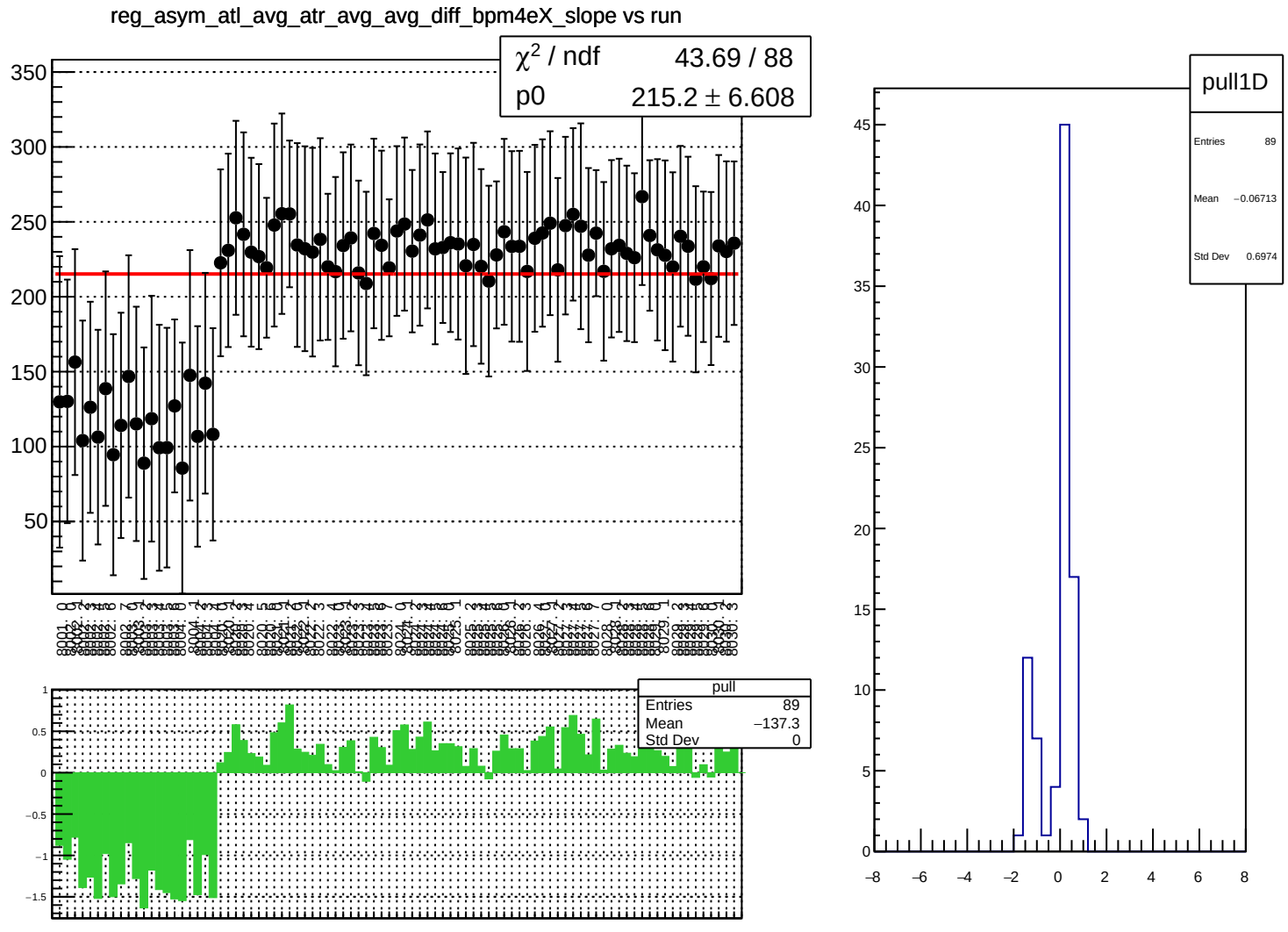

pull1D
Entries 89
Mean 0.001425
Std Dev 0.6345

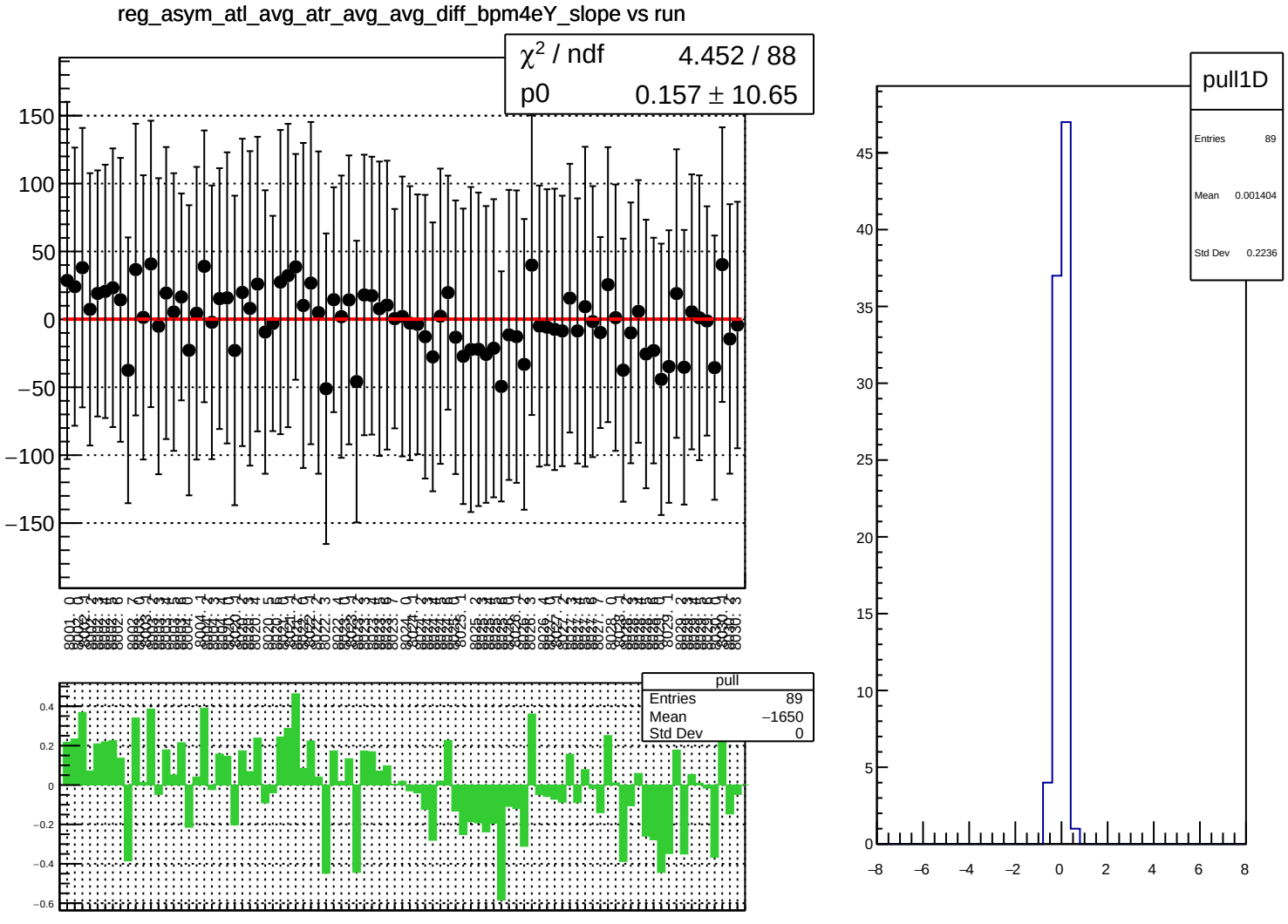

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 93.55 / 88
p0 2.088 ± 0.1403
pull
Entries 89
Mean 98.7
Std Dev 0
pull1D
Entries 89
Mean −0.1735
Std Dev 1.01

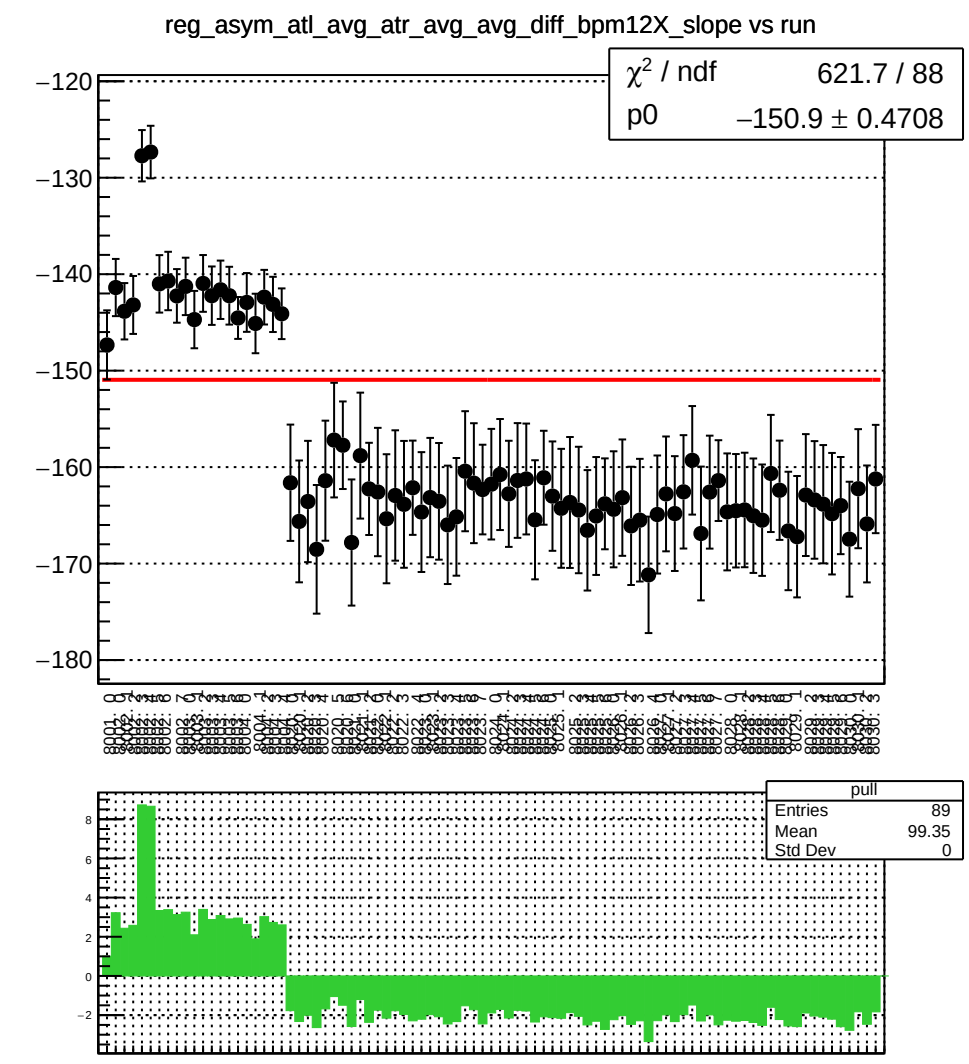

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 79.86 / 88
p0 −266.4 ± 6.337
pull
Entries 89
Mean −78.89
Std Dev 0
pull1D
Entries 89
Mean 0.1365
Std Dev 0.9373

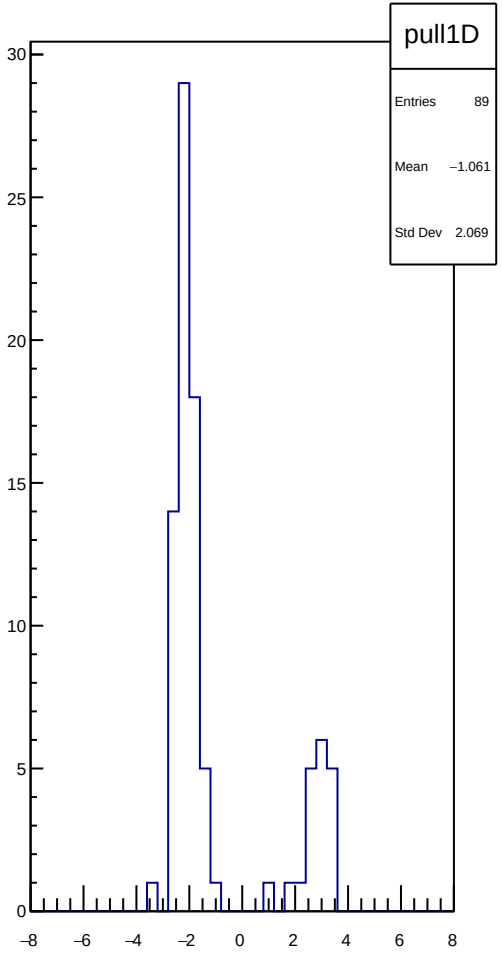

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.602 / 88
p0 54.69 ± 9.899
200
150
100
50
0
−50
−100
pull
Entries 89
Mean 4049
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4

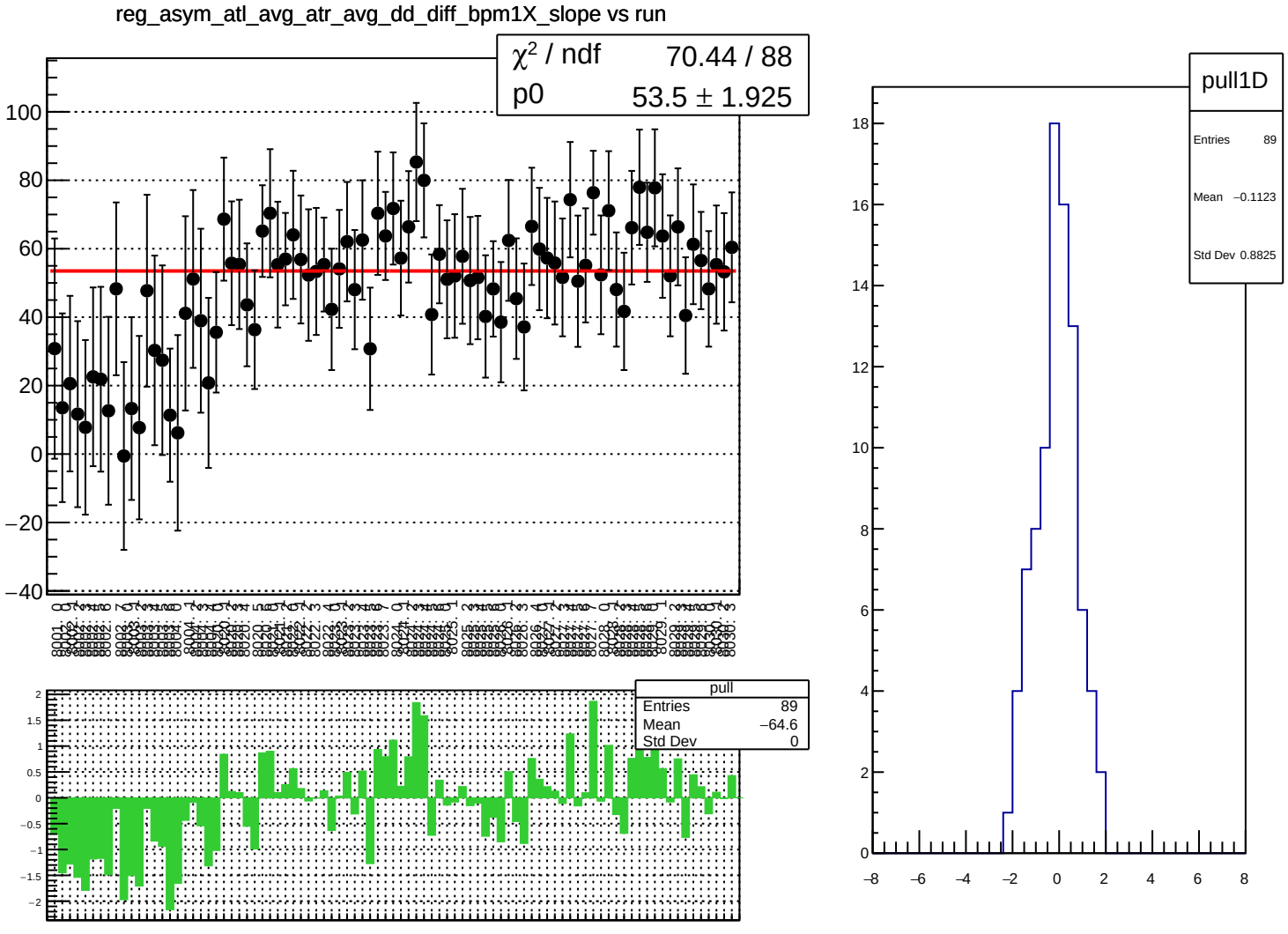

pull1D
Entries 89
Mean 0.000631
Std Dev 0.2274
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

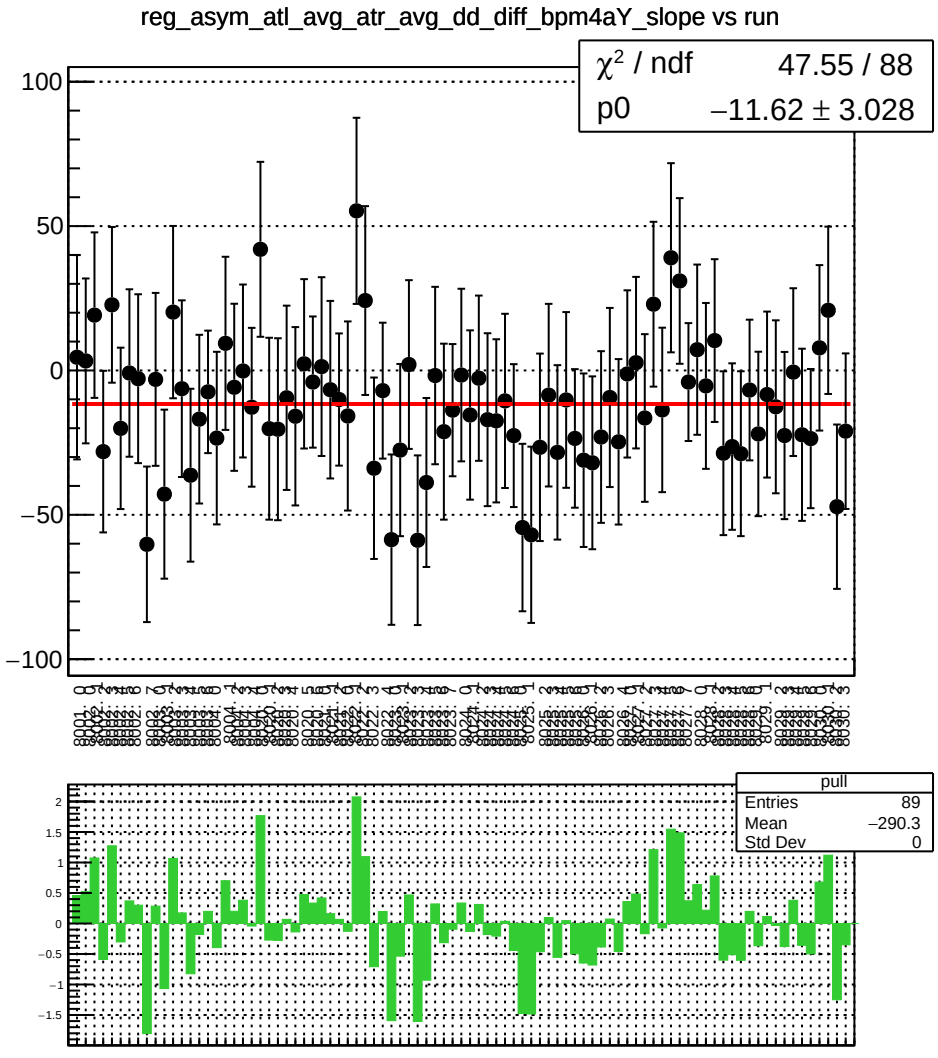

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 43.69 / 88
p0 215.2 ± 6.608
350
300
250
200
150
100
50
pull
Entries 89
Mean −137.3
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 89
Mean −0.06713
Std Dev 0.6974
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

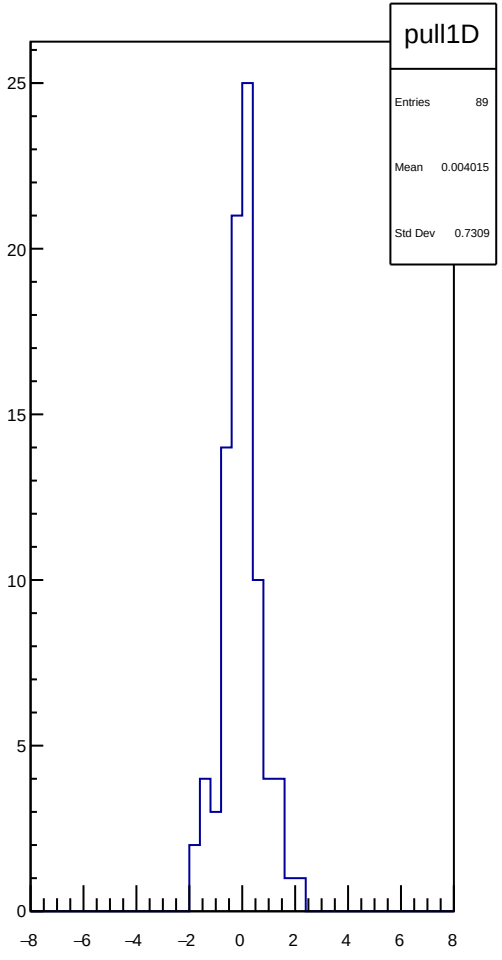

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.452 / 88
p0 0.157 ± 10.65
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −1650
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 89
Mean 0.001404
Std Dev 0.2236
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

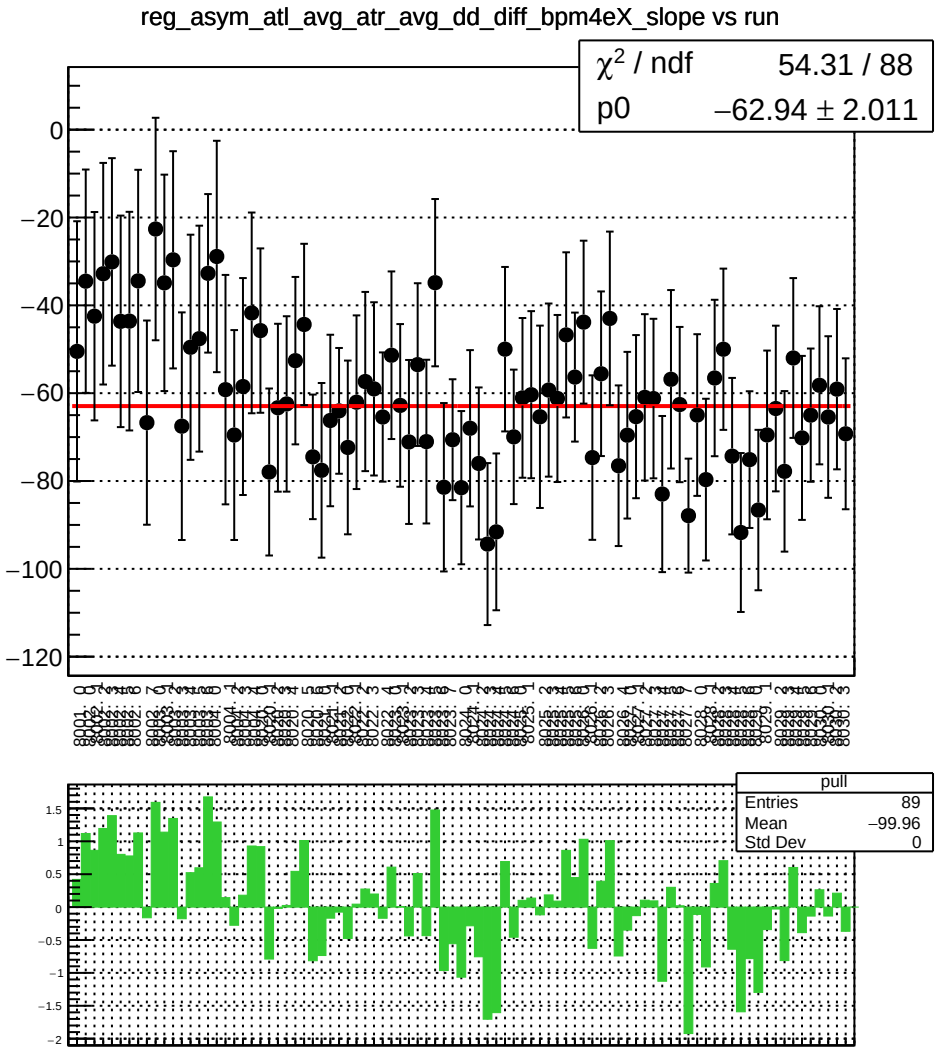

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 621.7 / 88
p0 −150.9 ± 0.4708
pull
Entries 89
Mean 99.35
Std Dev 0

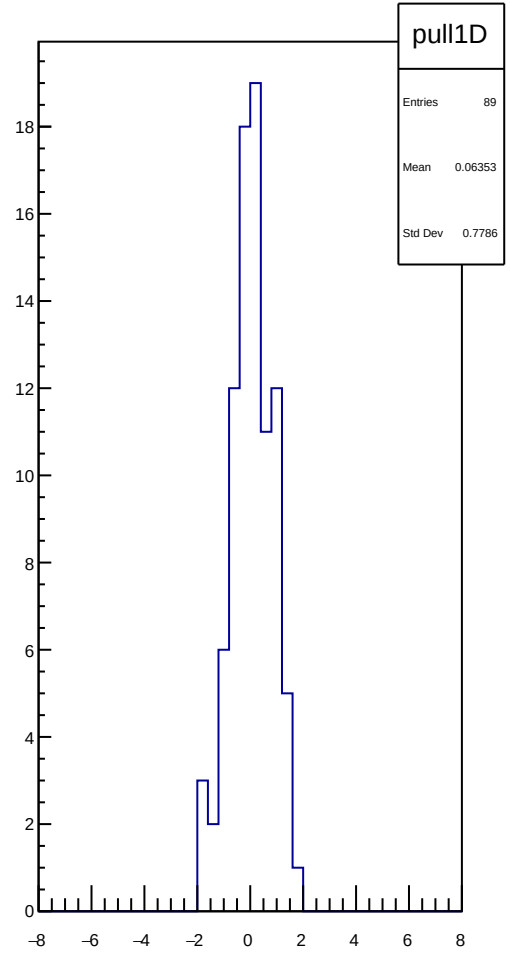

pull1D
Entries 89
Mean −1.061
Std Dev 2.069

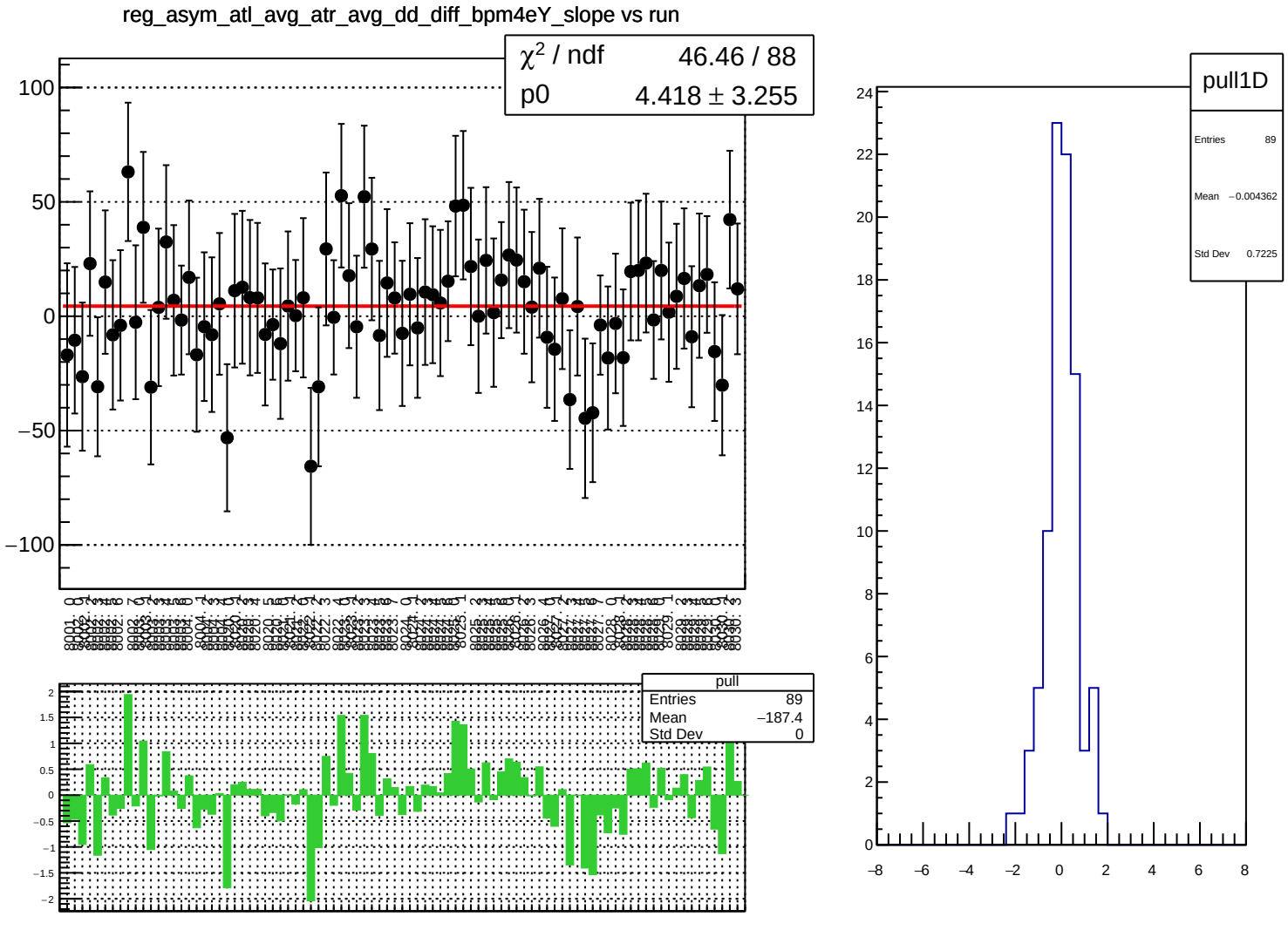

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 70.44 / 88
p0 53.5 ± 1.925
pull
Entries 89
Mean −64.6
Std Dev 0
pull1D
Entries 89
Mean −0.1123
Std Dev 0.8825

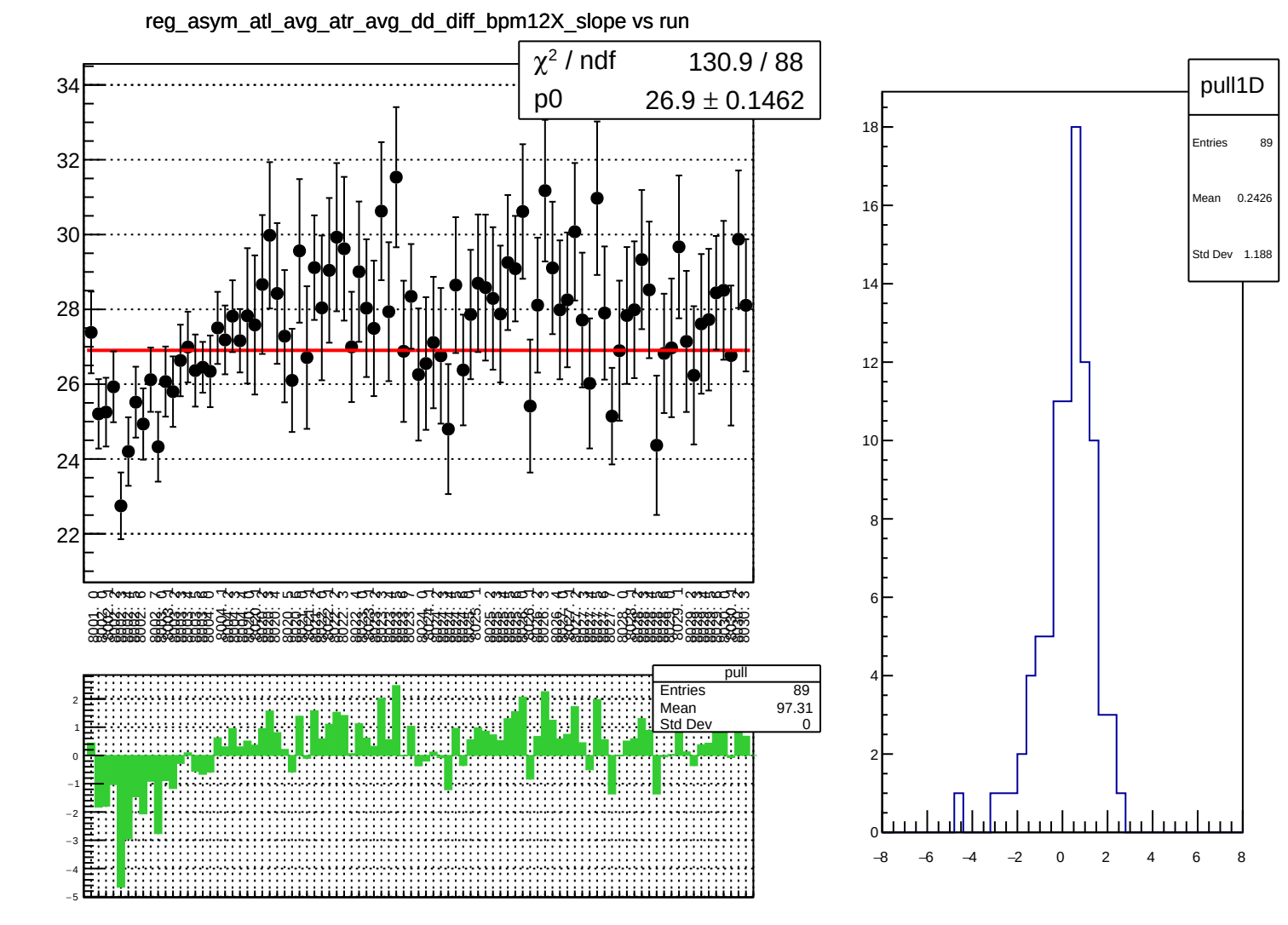

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 47.55 / 88
p0 −11.62 ± 3.028
pull
Entries 89
Mean −290.3
Std Dev 0

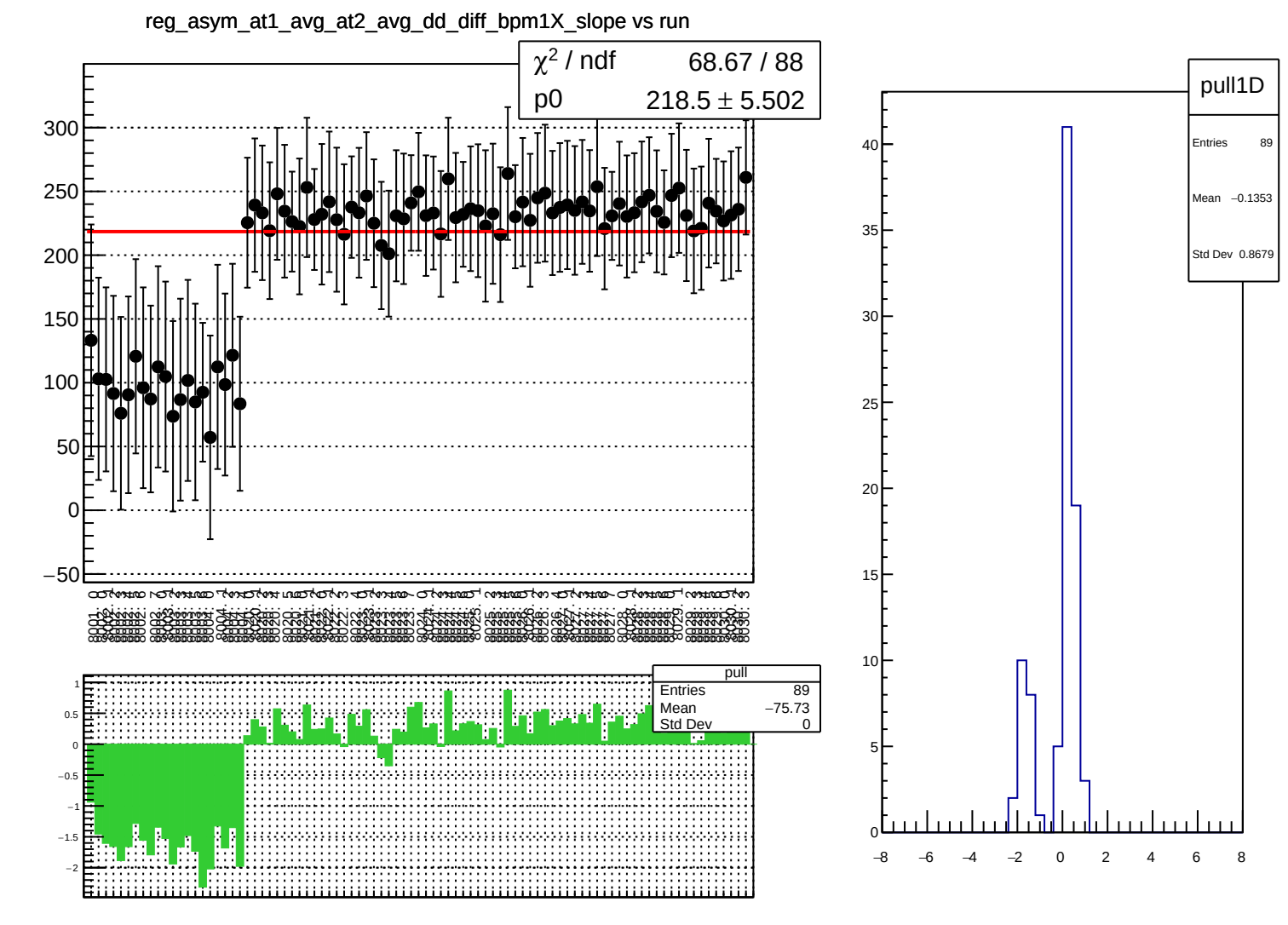

pull1D
Entries 89
Mean 0.004015
Std Dev 0.7309

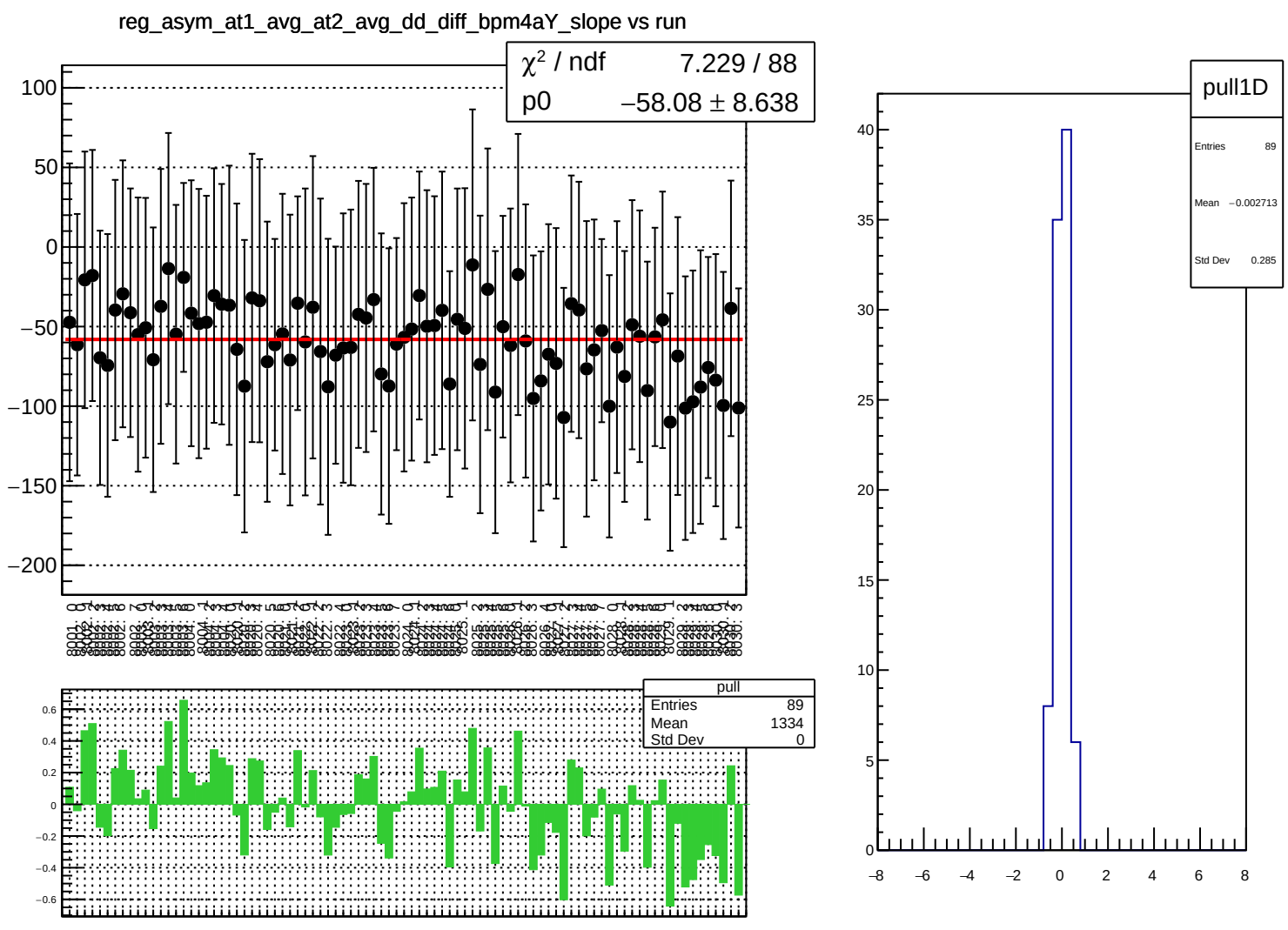

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 54.31 / 88
p0 −62.94 ± 2.011
pull
Entries 89
Mean −99.96
Std Dev 0

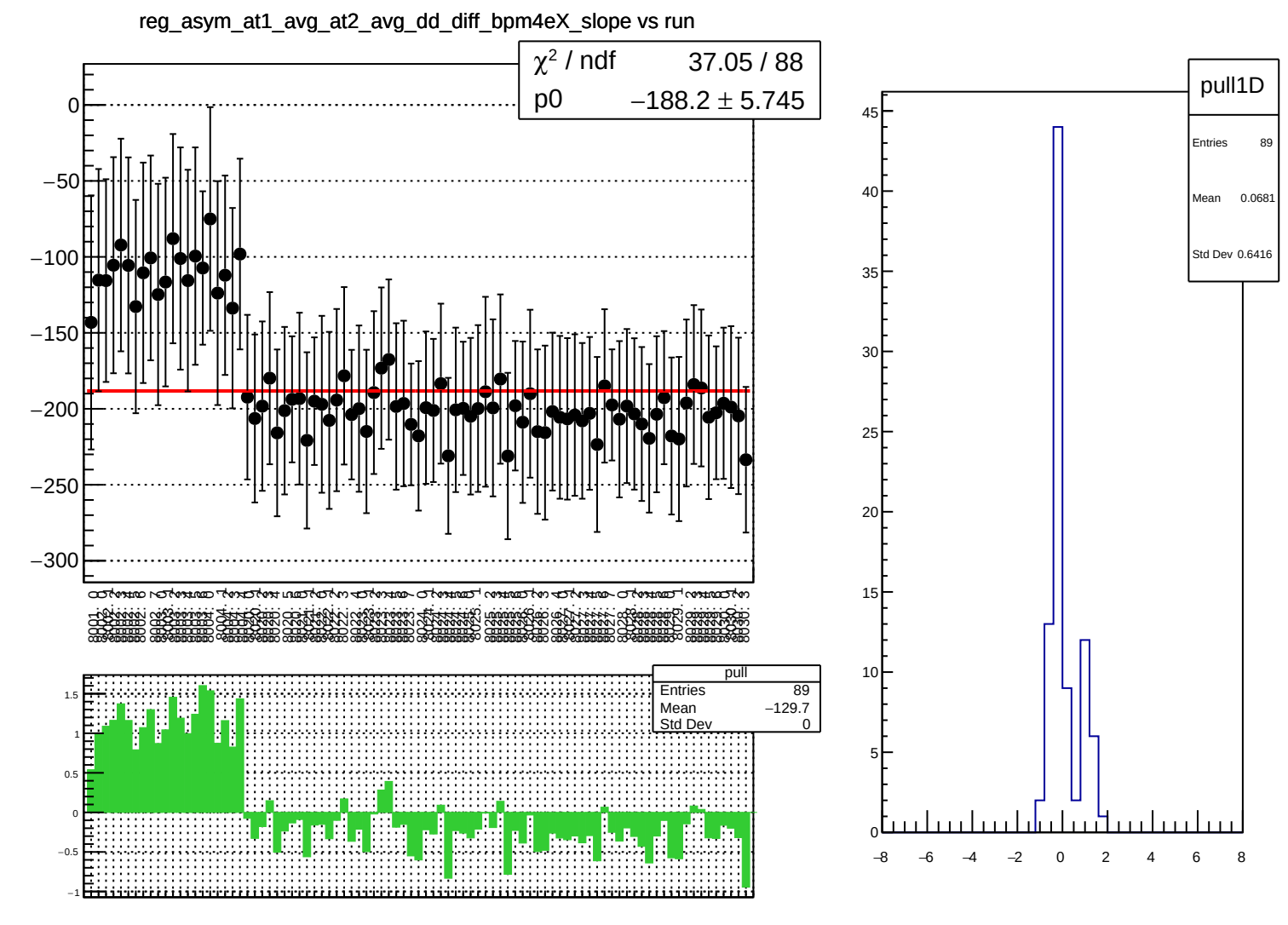

pull1D
Entries 89
Mean 0.06353
Std Dev 0.7786

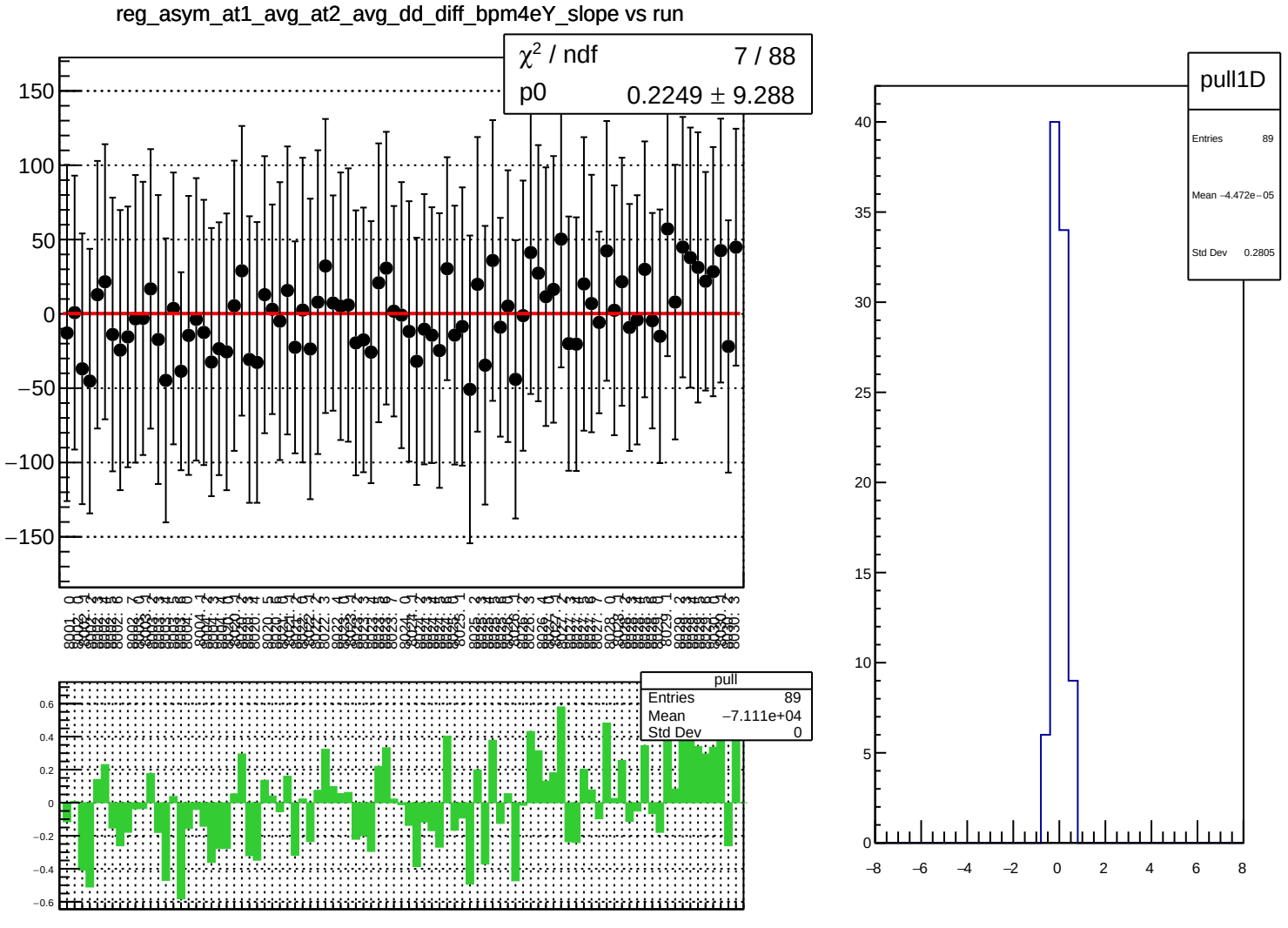

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 46.46 / 88
p0 4.418 ± 3.255
pull
Entries 89
Mean −187.4
Std Dev 0
pull1D
Entries 89
Mean −0.004362
Std Dev 0.7225

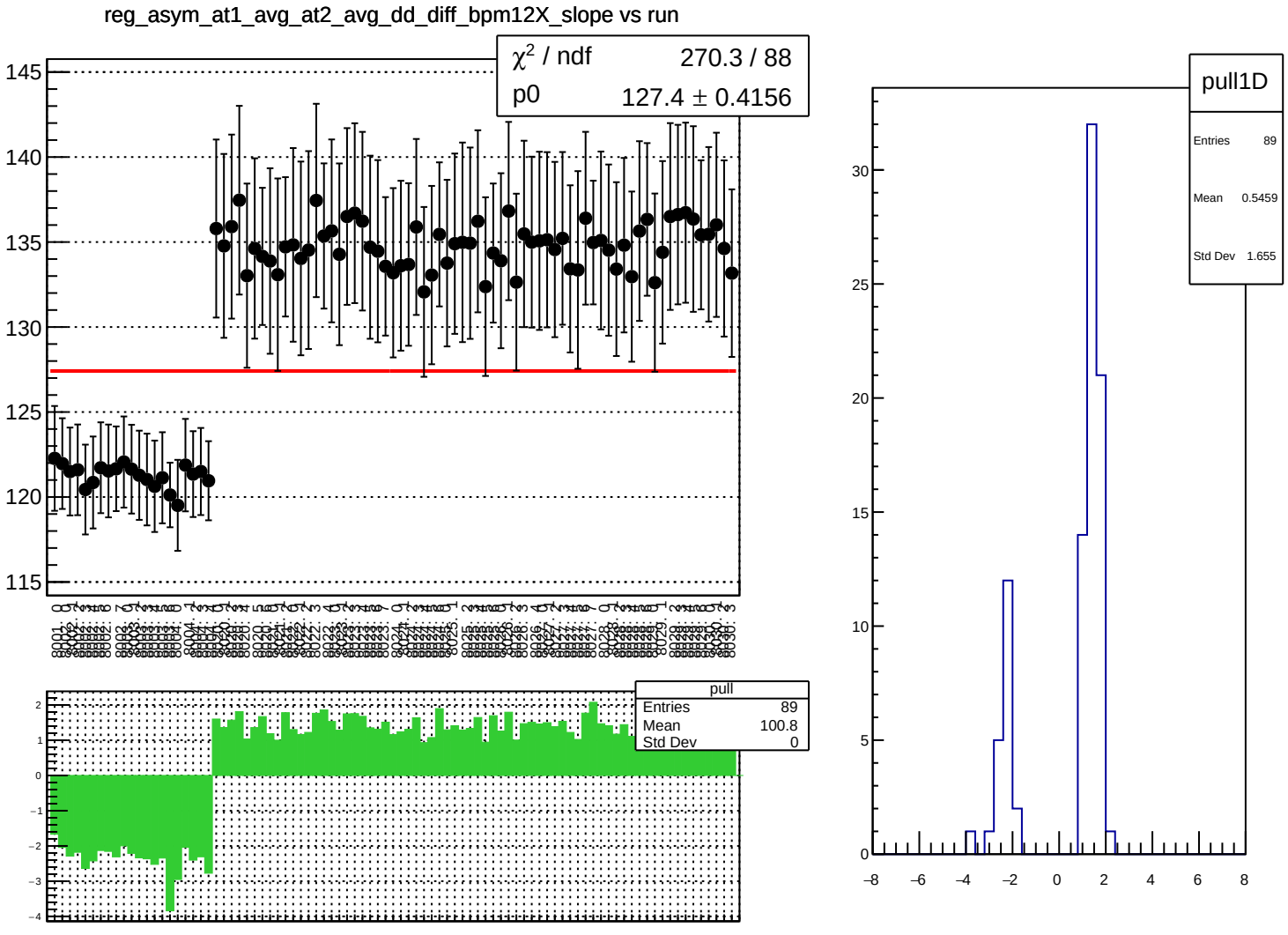

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 130.9 / 88
p0 26.9 ± 0.1462
pull
Entries 89
Mean 97.31
Std Dev 0
pull1D
Entries 89
Mean 0.2426
Std Dev 1.188

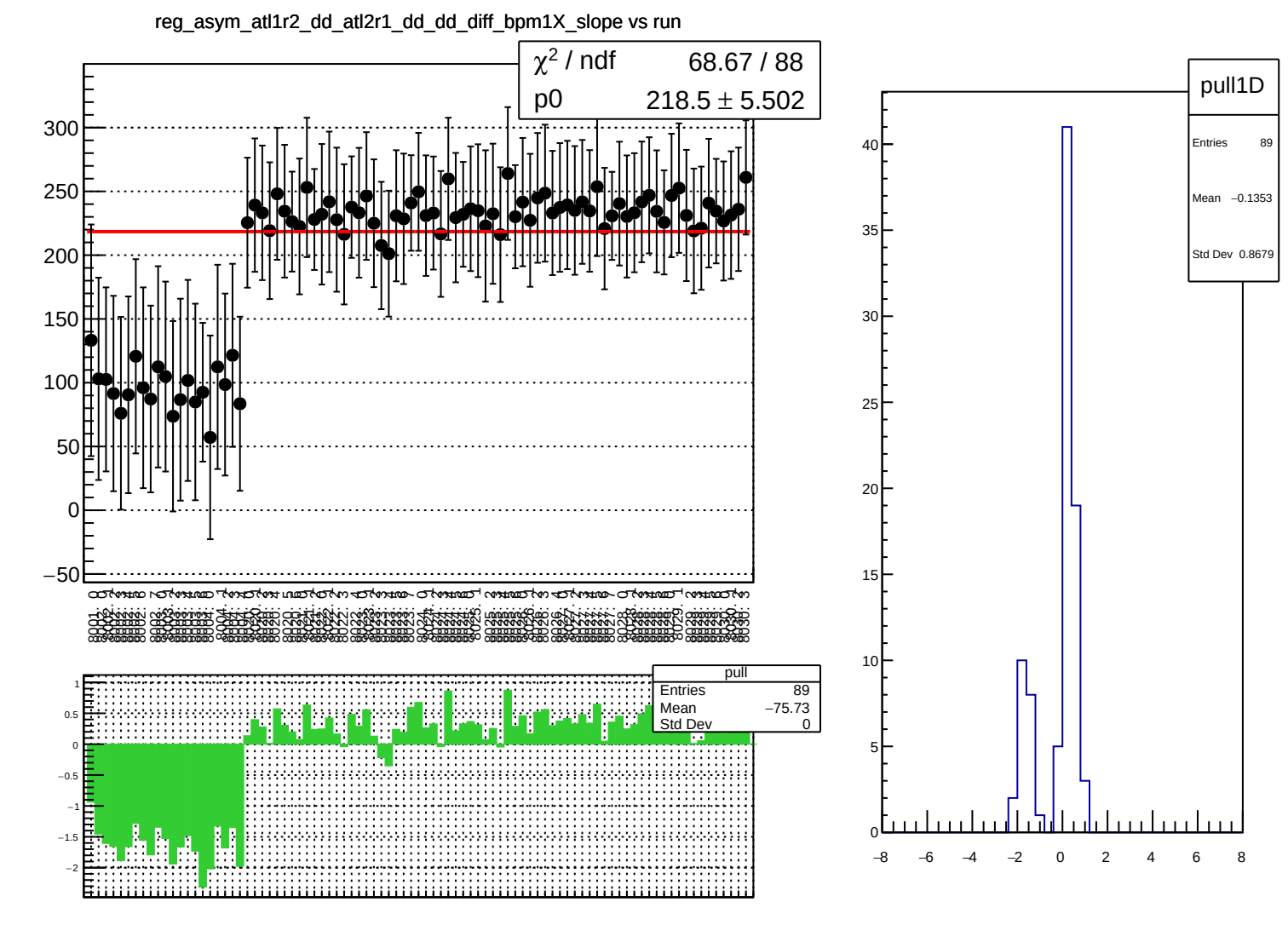

reg_asym_at1_avg_at2_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 68.67 / 88
p0 218.5 ± 5.502
pull
Entries 89
Mean −75.73
Std Dev 0
pull1D
Entries 89
Mean −0.1353
Std Dev 0.8679

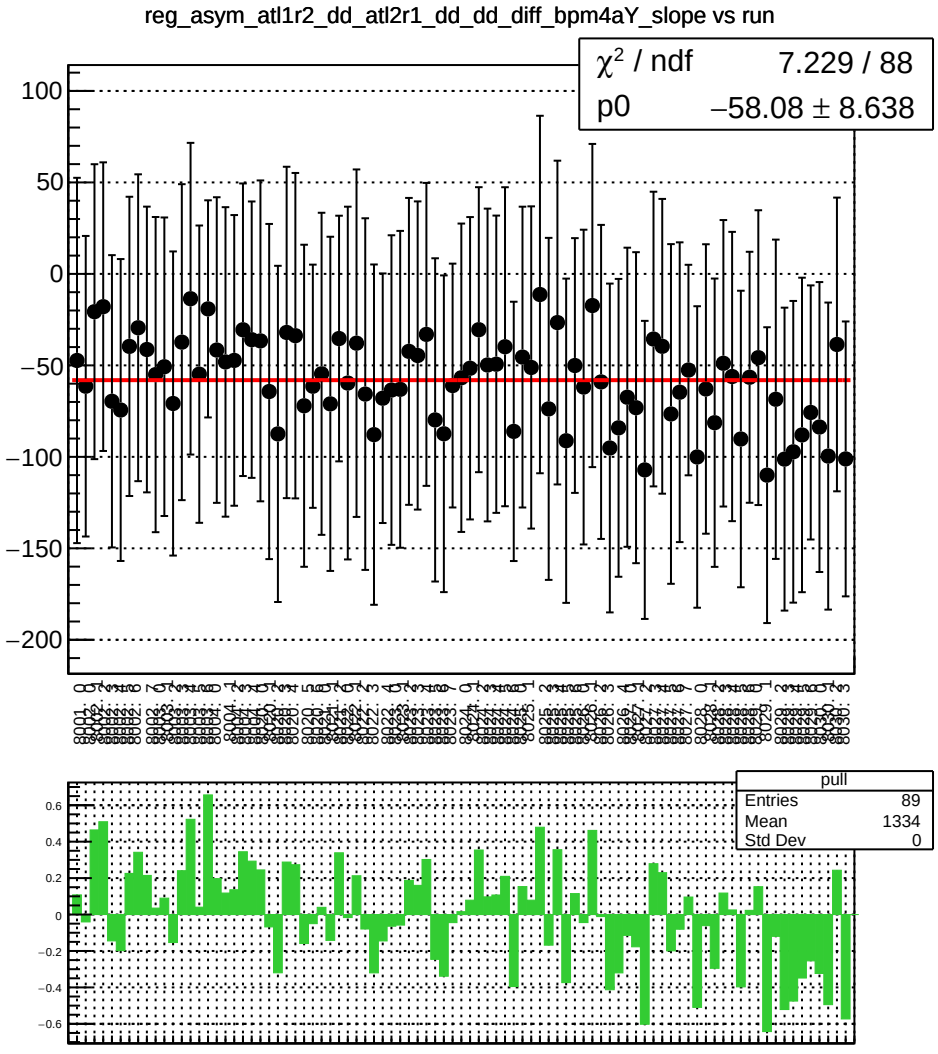

reg_asym_at1_avg_at2_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.229 / 88
p0 −58.08 ± 8.638
pull
Entries 89
Mean 1334
Std Dev 0
pull1D
Entries 89
Mean −0.002713
Std Dev 0.285

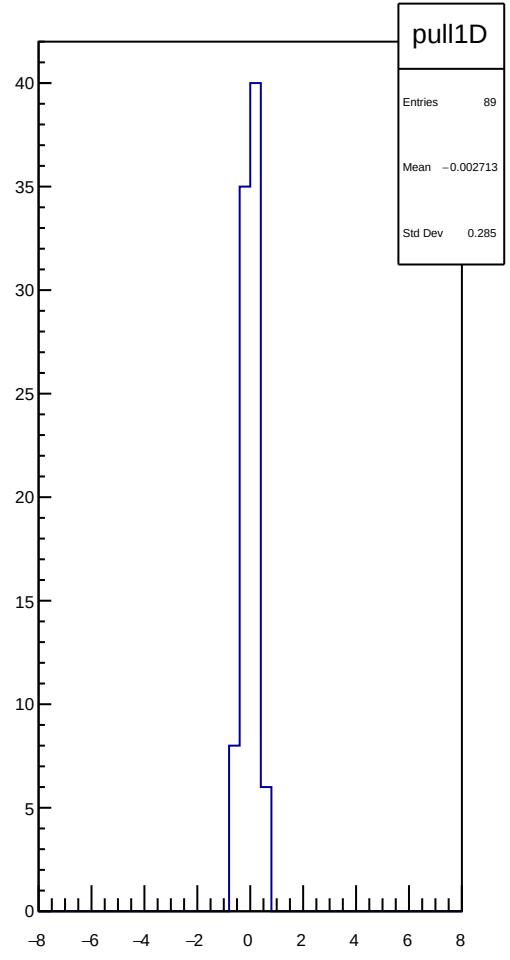

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 37.05 / 88
p0 −188.2 ± 5.745
pull
Entries 89
Mean −129.7
Std Dev 0
pull1D
Entries 89
Mean 0.0681
Std Dev 0.6416

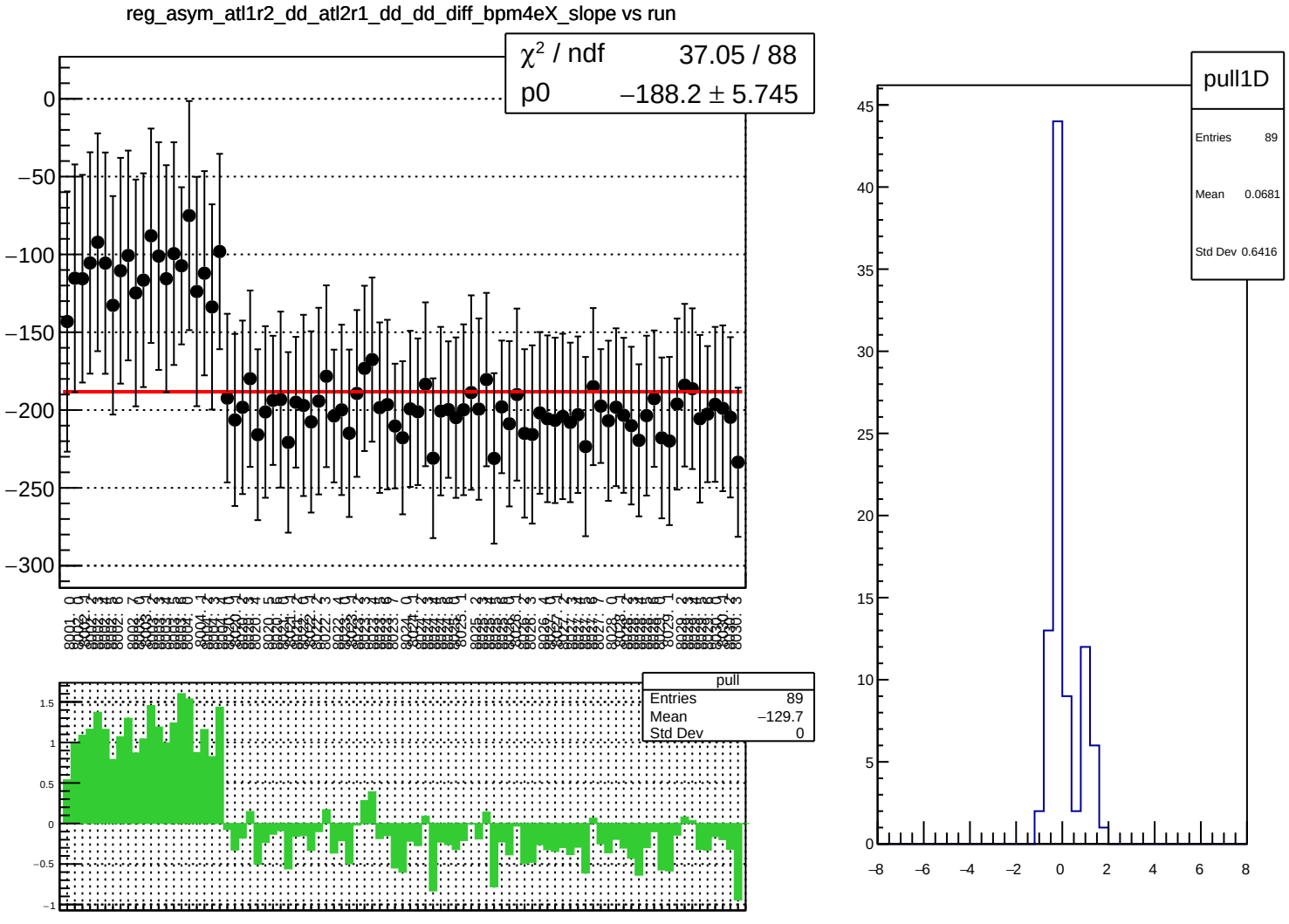

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 7 / 88
p0 0.2249 ± 9.288
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −7.111e+04
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 89
Mean −4.472e−05
Std Dev 0.2805
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

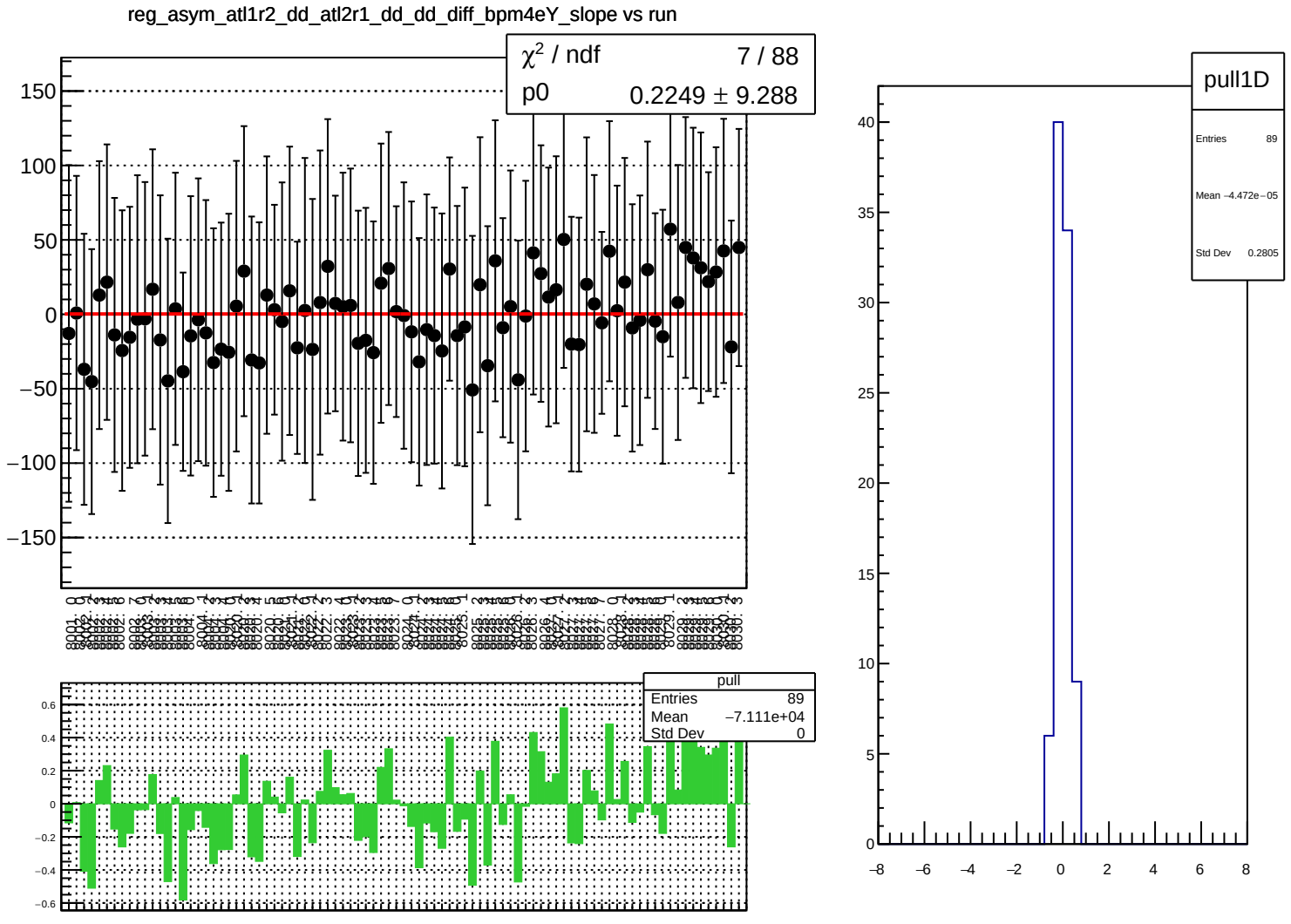

reg_asym_at1_avg_at2_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 270.3 / 88
p0 127.4 ± 0.4156
145
140
135
130
125
120
115
pull
Entries 89
Mean 100.8
Std Dev 0
2
1
0
−1
−2
−3
−4
pull1D
Entries 89
Mean 0.5459
Std Dev 1.655
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

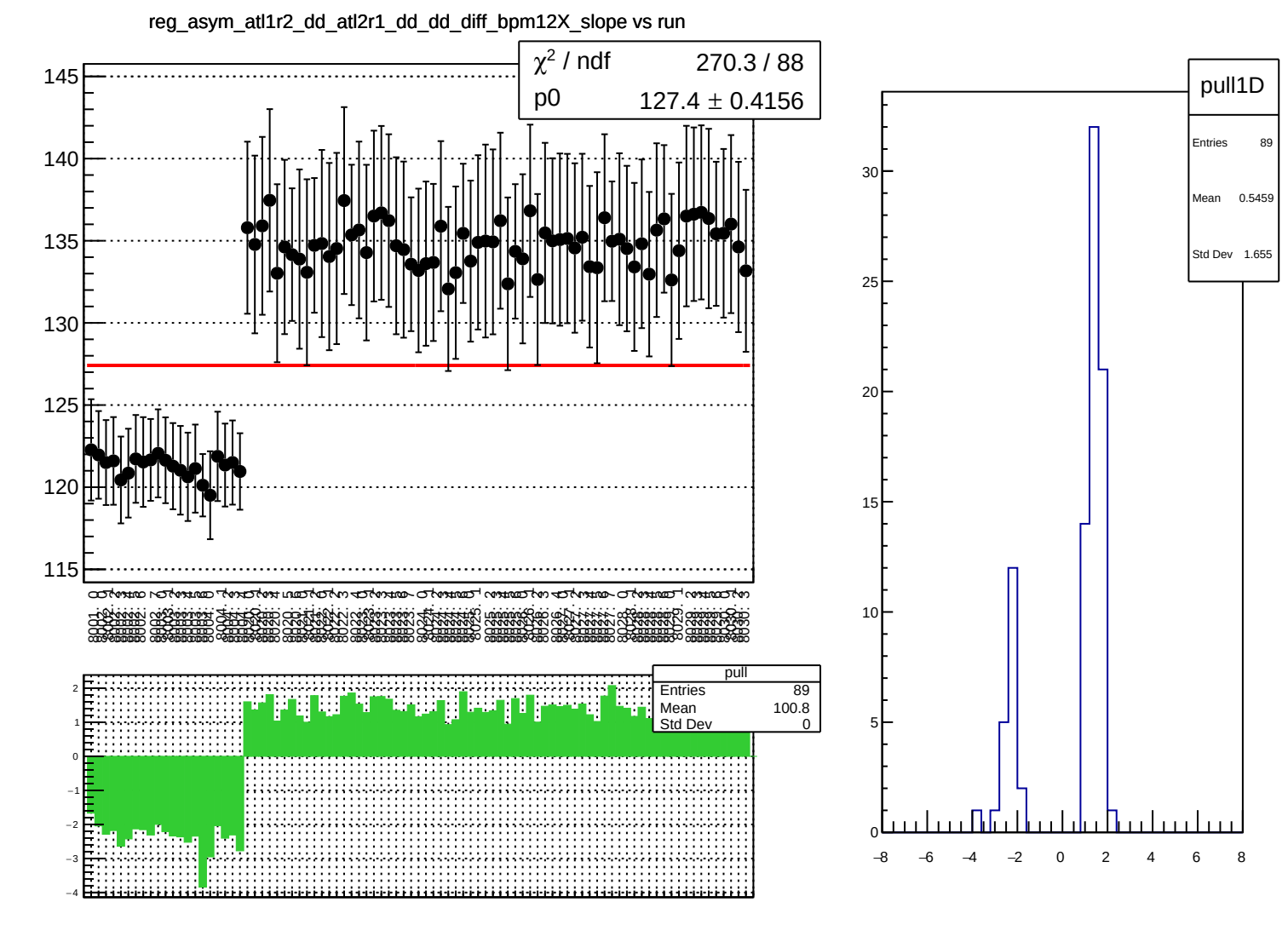

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 68.67 / 88
p0 218.5 ± 5.502
pull
Entries 89
Mean −75.73
Std Dev 0
pull1D
Entries 89
Mean −0.1353
Std Dev 0.8679

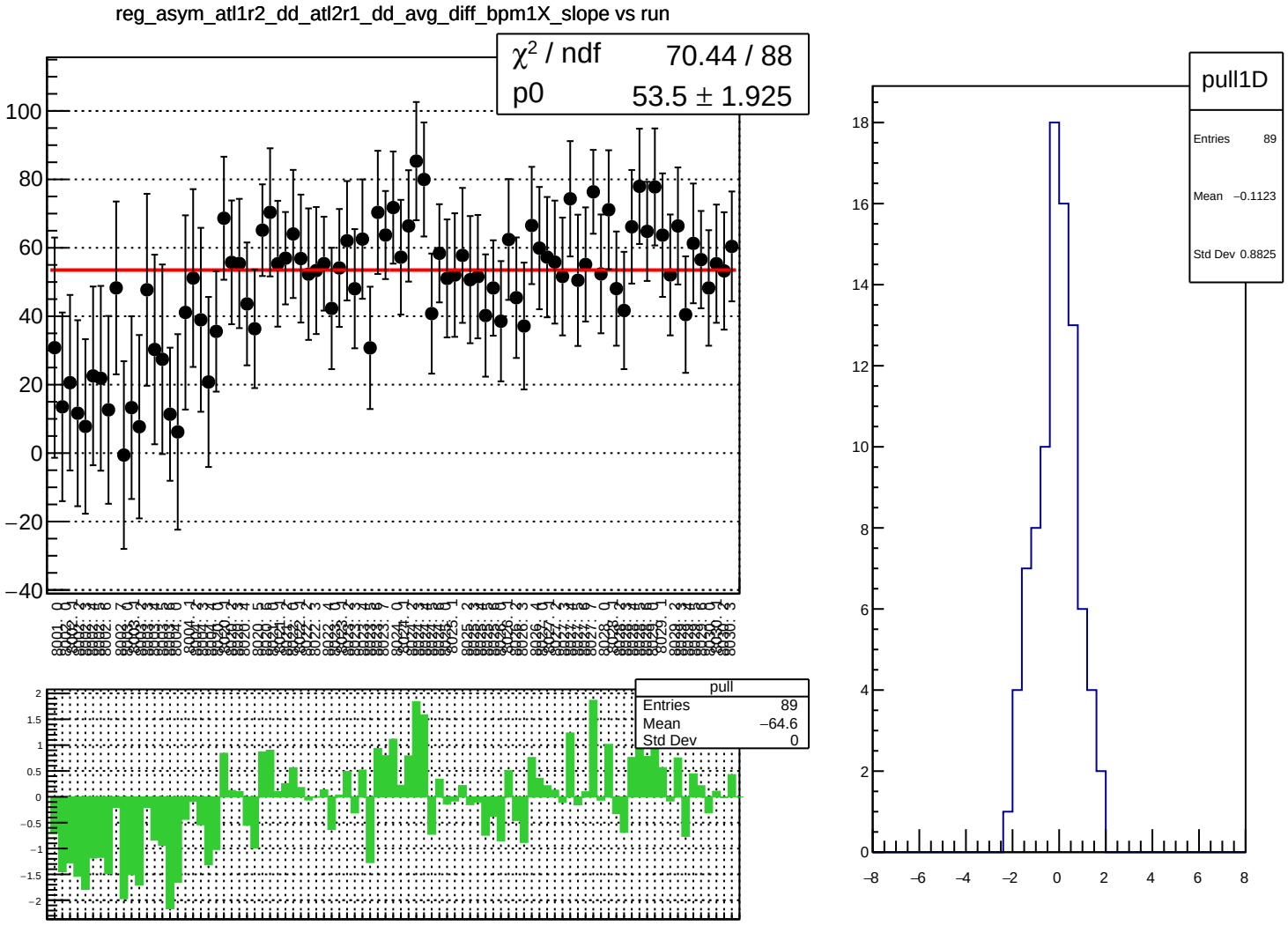

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.229 / 88
p0 −58.08 ± 8.638
pull
Entries 89
Mean 1334
Std Dev 0

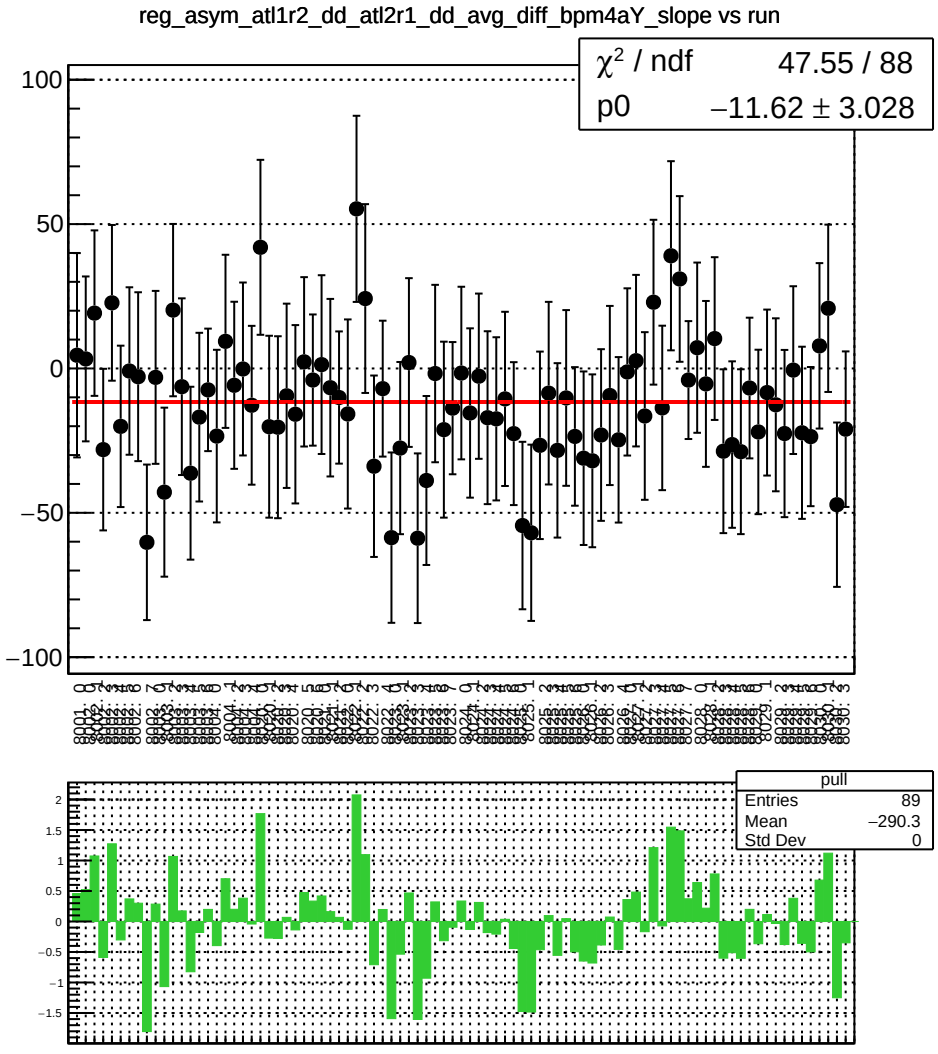

pull1D
Entries 89
Mean −0.002713
Std Dev 0.285

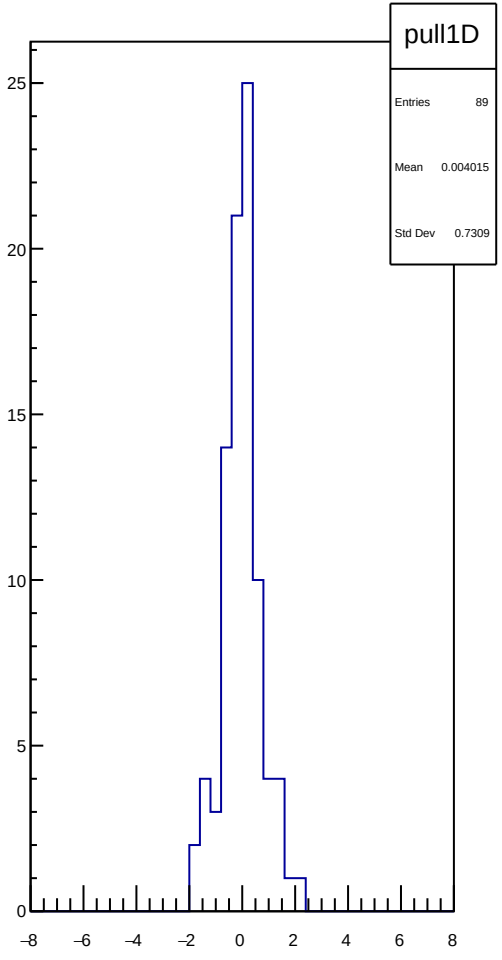

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 37.05 / 88
p0 −188.2 ± 5.745
pull
Entries 89
Mean −129.7
Std Dev 0
pull1D
Entries 89
Mean 0.0681
Std Dev 0.6416

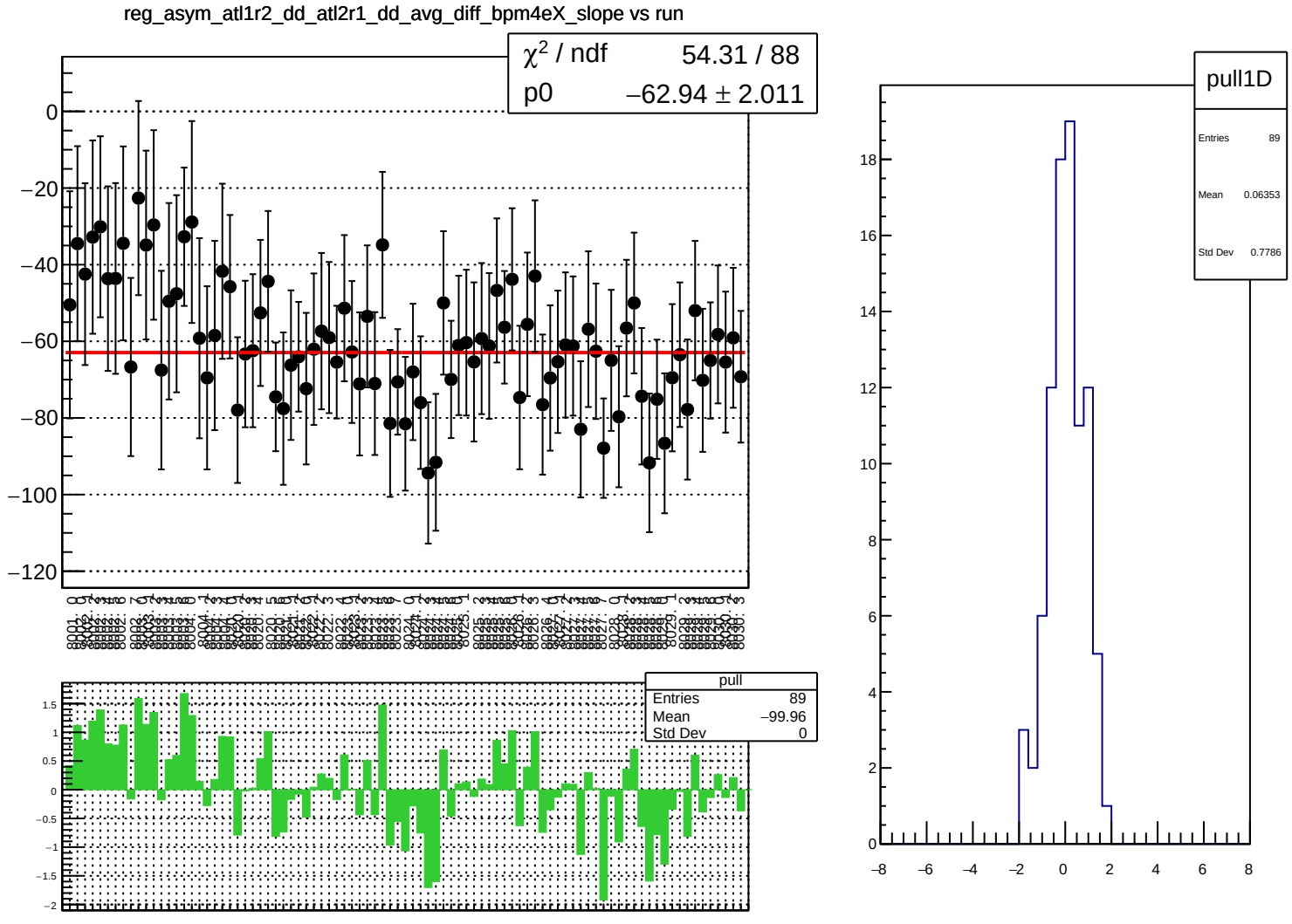

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 7 / 88
p0 0.2249 ± 9.288
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −7.111e+04
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 89
Mean −4.472e−05
Std Dev 0.2805
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

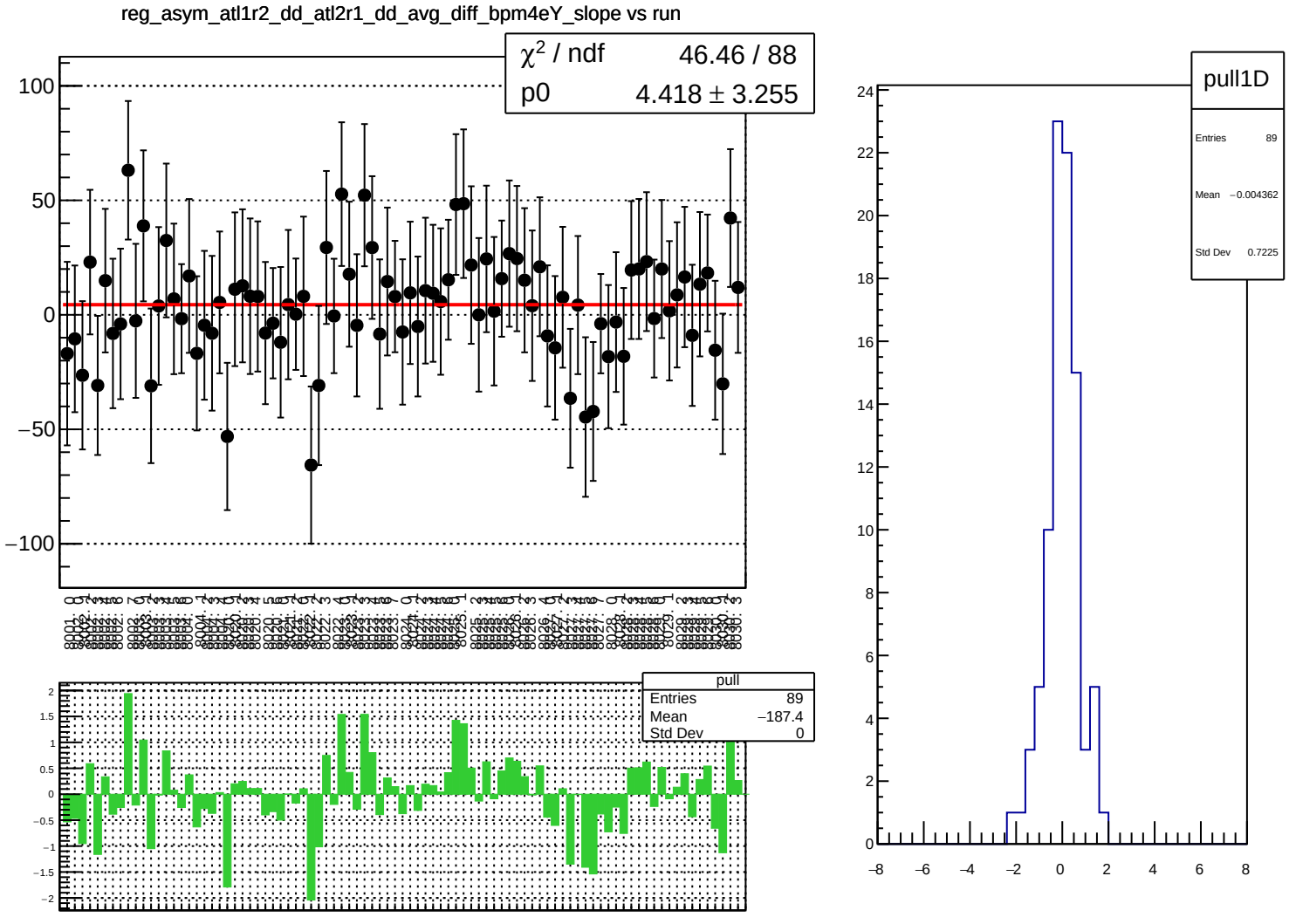

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 270.3 / 88
p0 127.4 ± 0.4156
145
140
135
130
125
120
115
pull
Entries 89
Mean 100.8
Std Dev 0
2
1
0
−1
−2
−3
−4
pull1D
Entries 89
Mean 0.5459
Std Dev 1.655
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

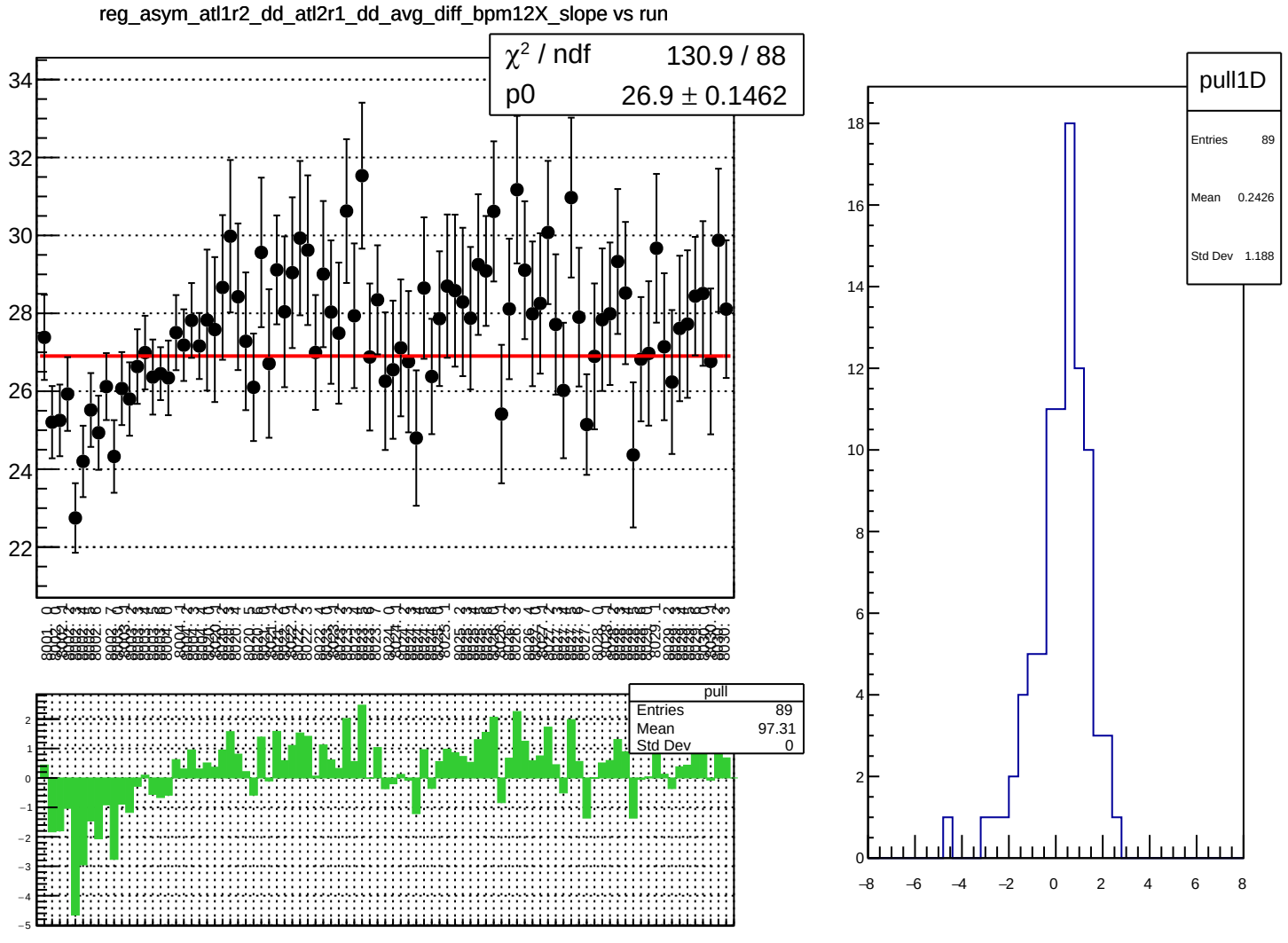

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 70.44 / 88
p0 53.5 ± 1.925
pull
Entries 89
Mean −64.6
Std Dev 0
pull1D
Entries 89
Mean −0.1123
Std Dev 0.8825

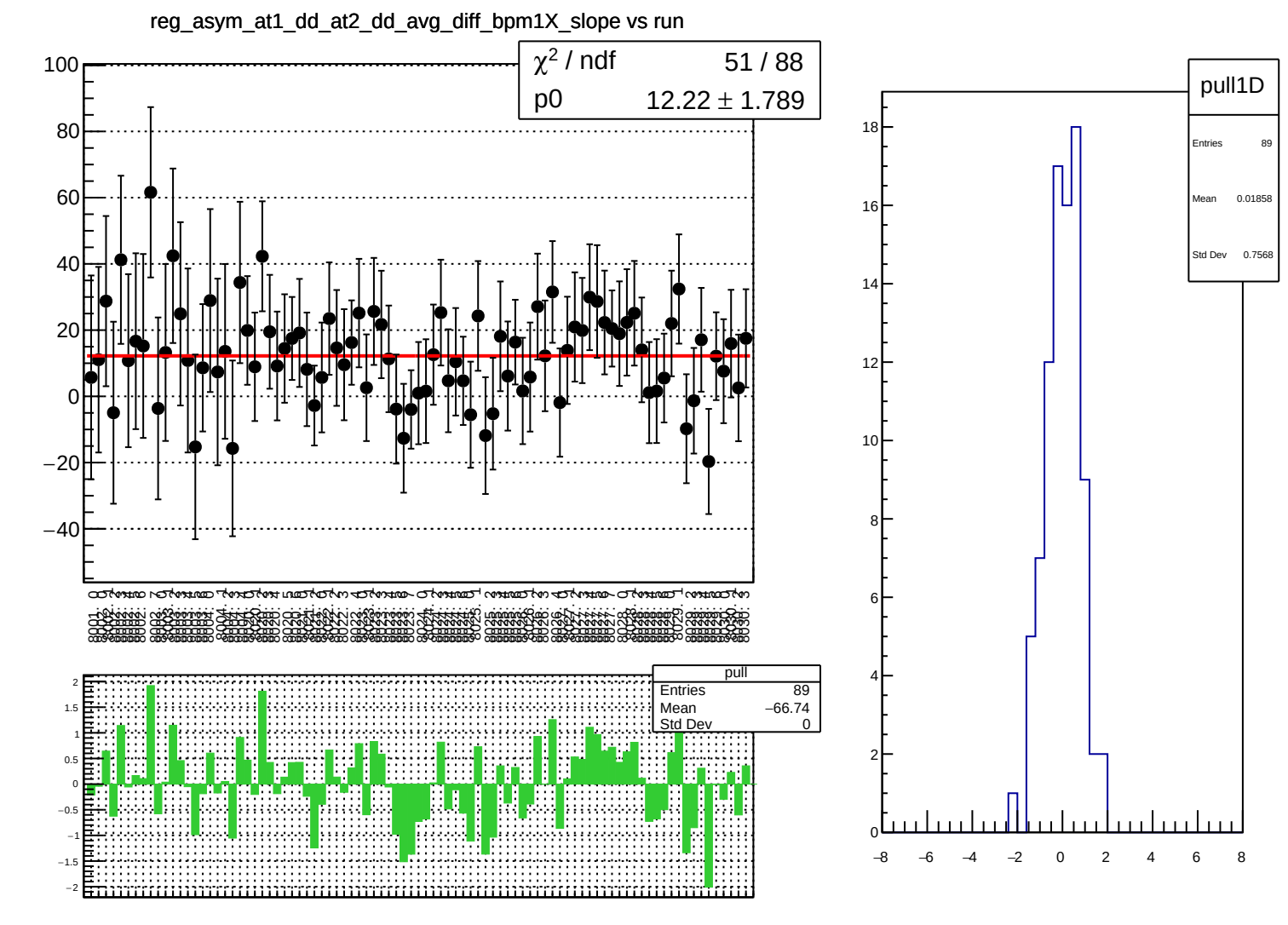

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 47.55 / 88
p0 −11.62 ± 3.028
pull
Entries 89
Mean −290.3
Std Dev 0

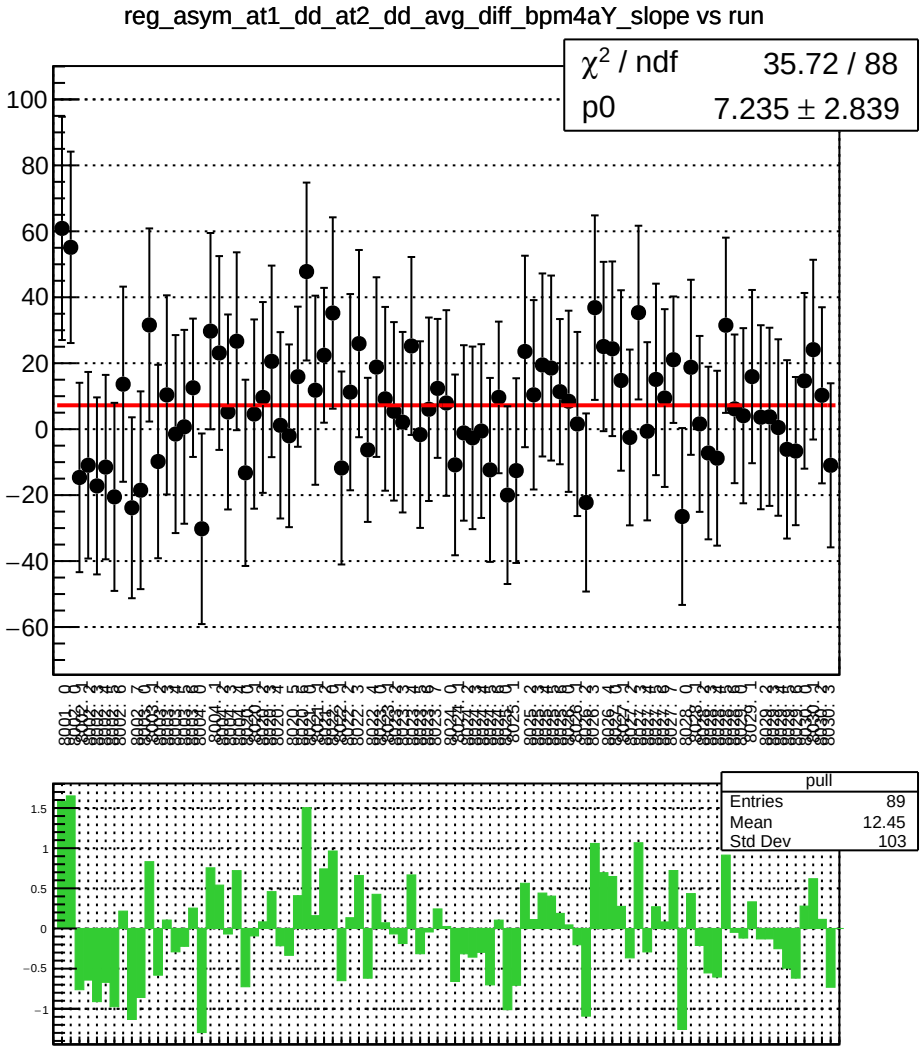

pull1D
Entries 89
Mean 0.004015
Std Dev 0.7309

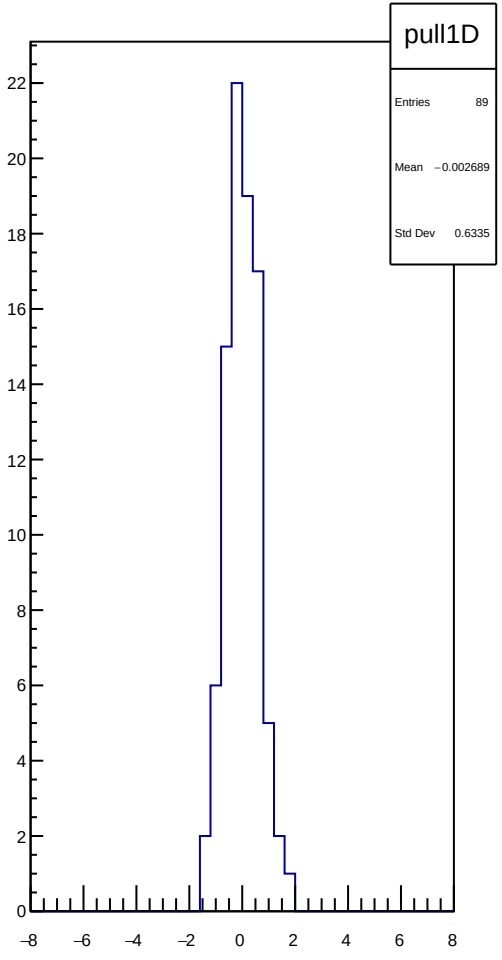

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 54.31 / 88
p0 −62.94 ± 2.011
pull
Entries 89
Mean −99.96
Std Dev 0
pull1D
Entries 89
Mean 0.06353
Std Dev 0.7786

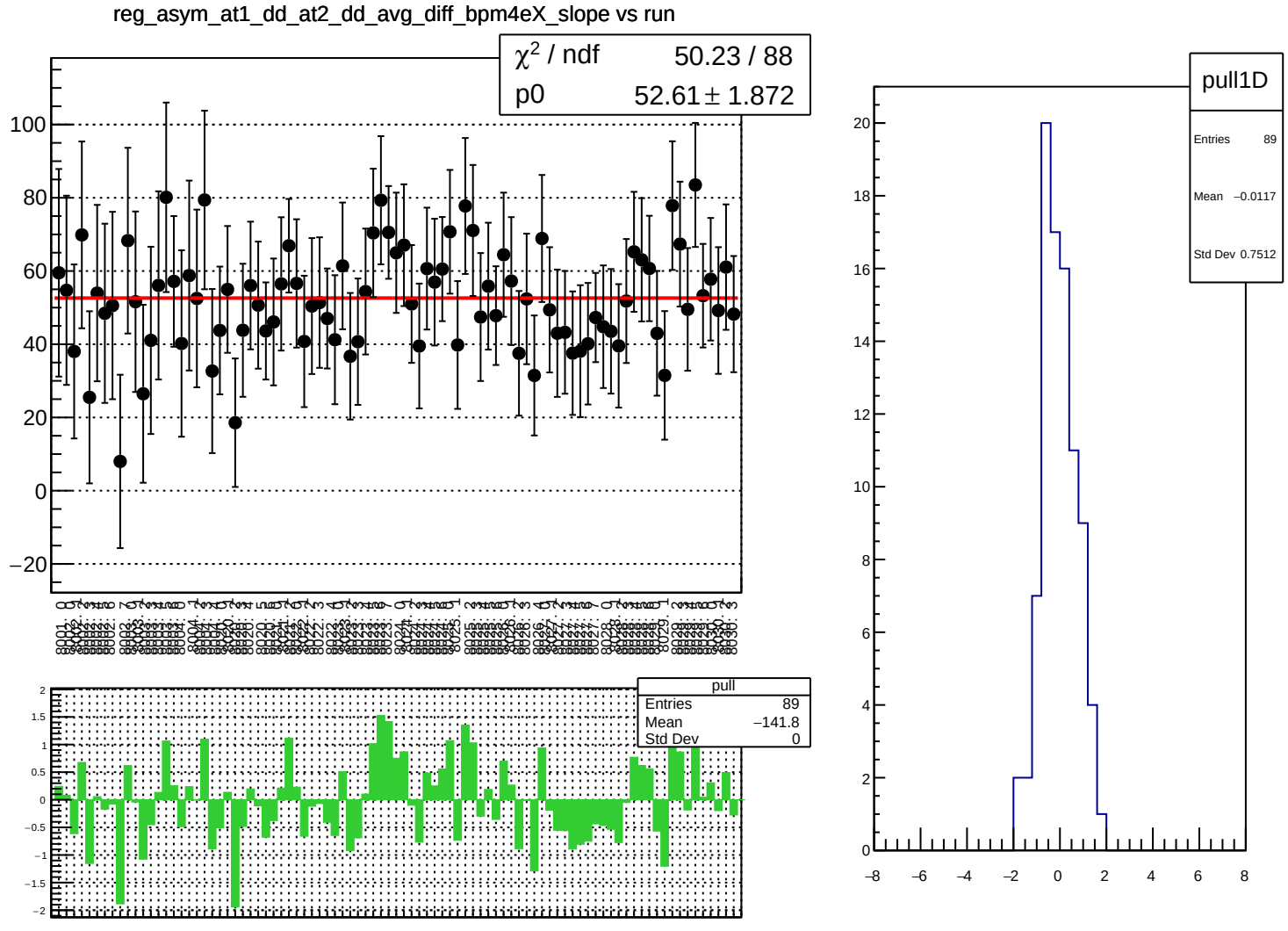

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 46.46 / 88
p0 4.418 ± 3.255
100
50
0
−50
−100
pull
Entries 89
Mean −187.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean −0.004362
Std Dev 0.7225
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

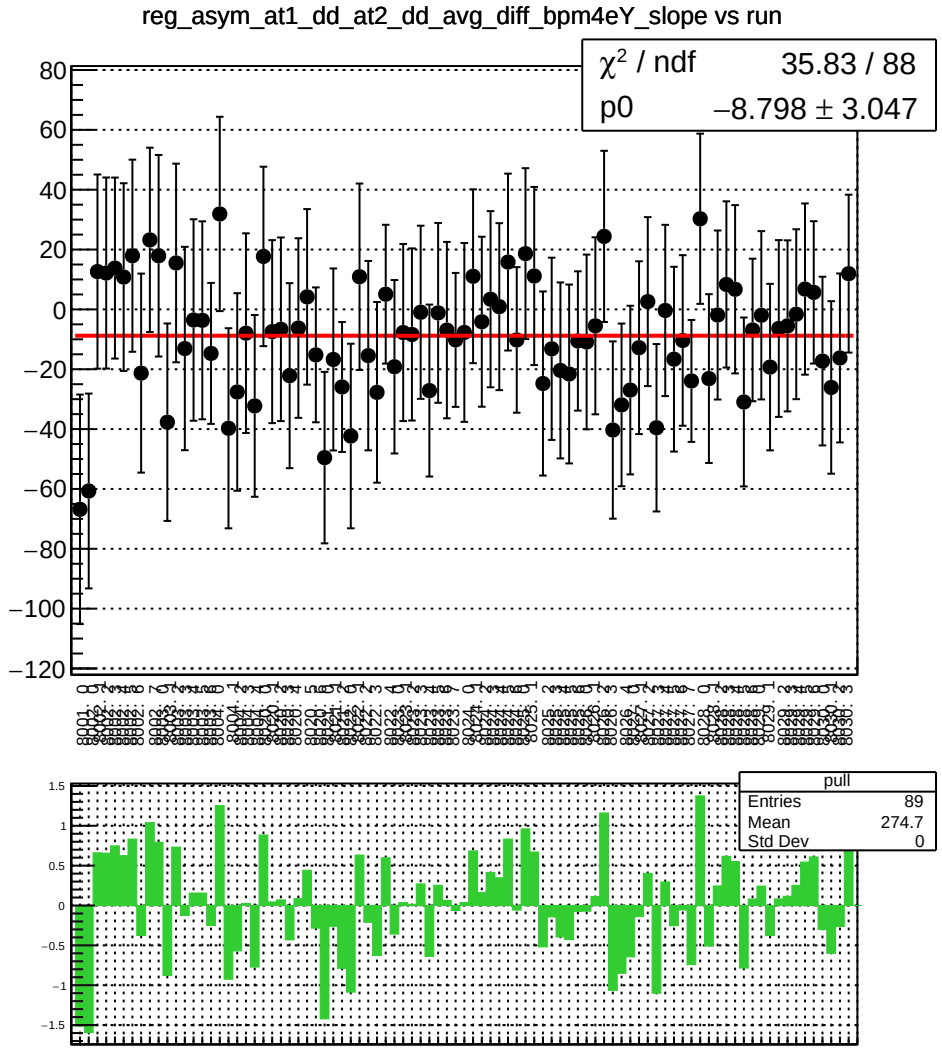

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 130.9 / 88
p0 26.9 ± 0.1462
pull
Entries 89
Mean 97.31
Std Dev 0
pull1D
Entries 89
Mean 0.2426
Std Dev 1.188

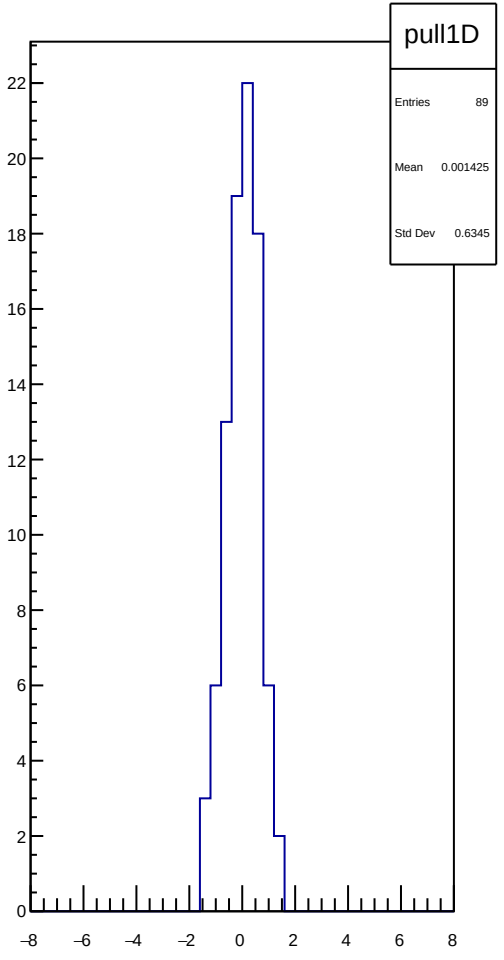

reg_asym_at1_dd_at2_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 51 / 88
p0 12.22 ± 1.789
pull
Entries 89
Mean −66.74
Std Dev 0
pull1D
Entries 89
Mean 0.01858
Std Dev 0.7568

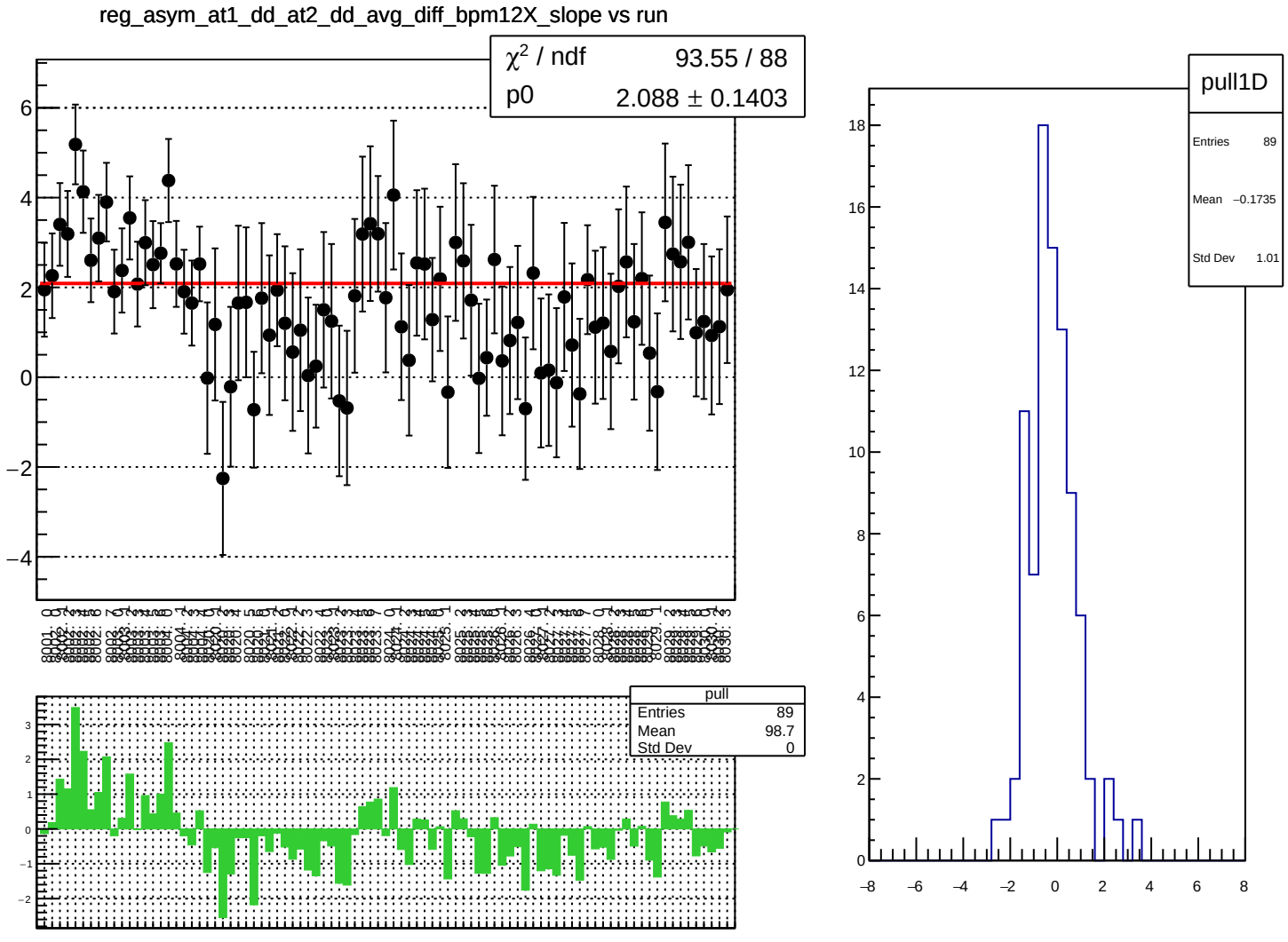

reg_asym_at1_dd_at2_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 35.72 / 88
p0 7.235 ± 2.839
pull
Entries 89
Mean 12.45
Std Dev 103

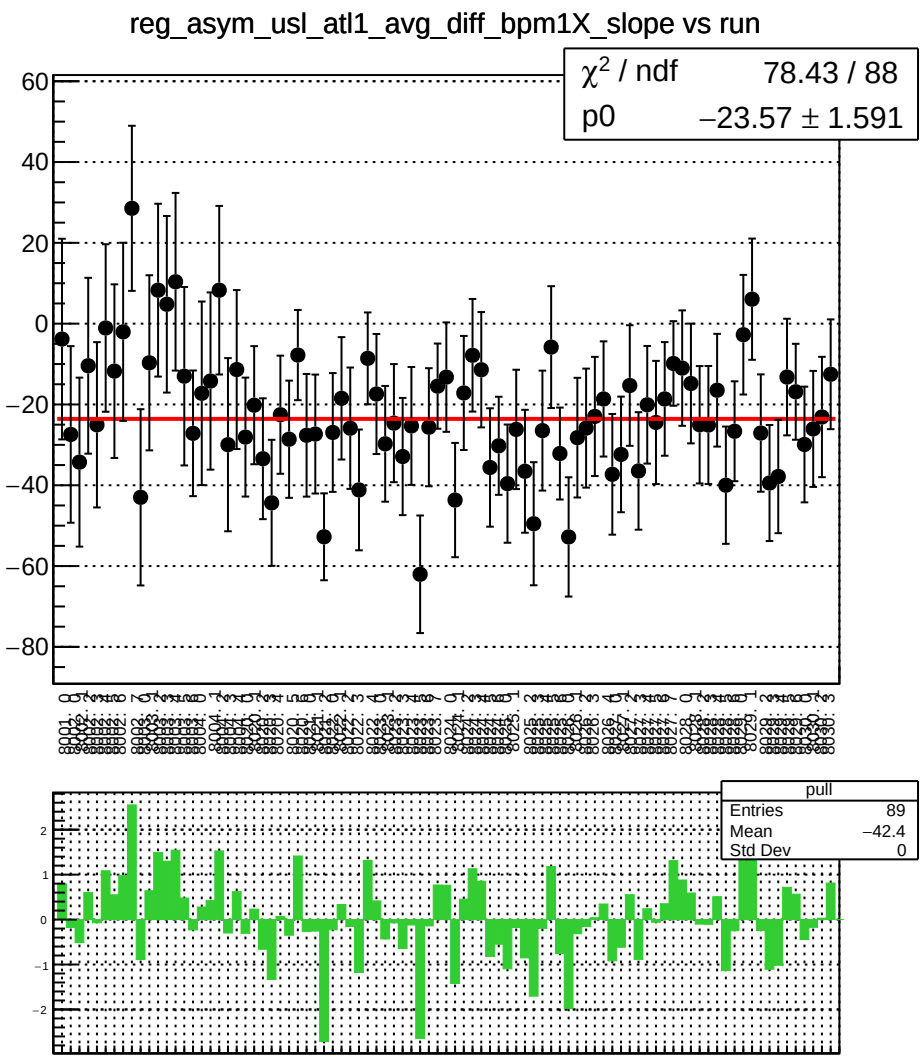

pull1D
Entries 89
Mean −0.002689
Std Dev 0.6335

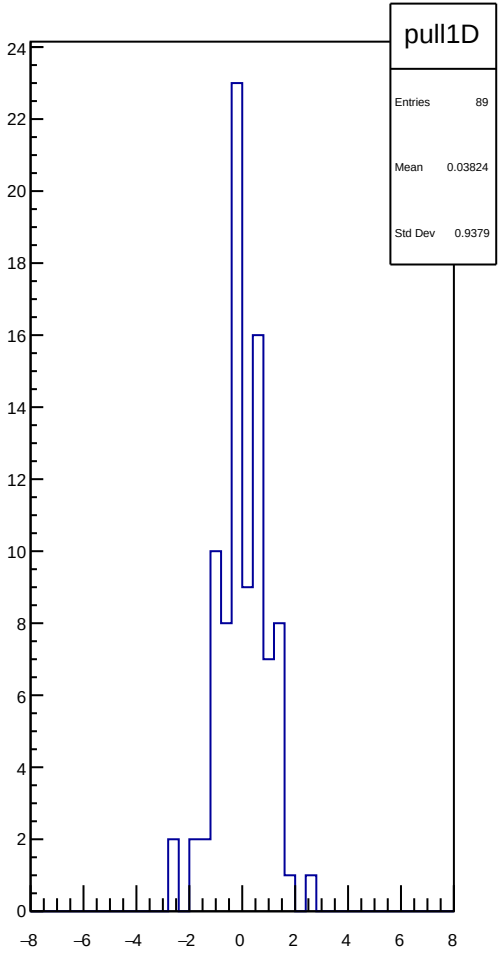

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 50.23 / 88
p0 52.61 ± 1.872
pull
Entries 89
Mean −141.8
Std Dev 0
pull1D
Entries 89
Mean −0.0117
Std Dev 0.7512

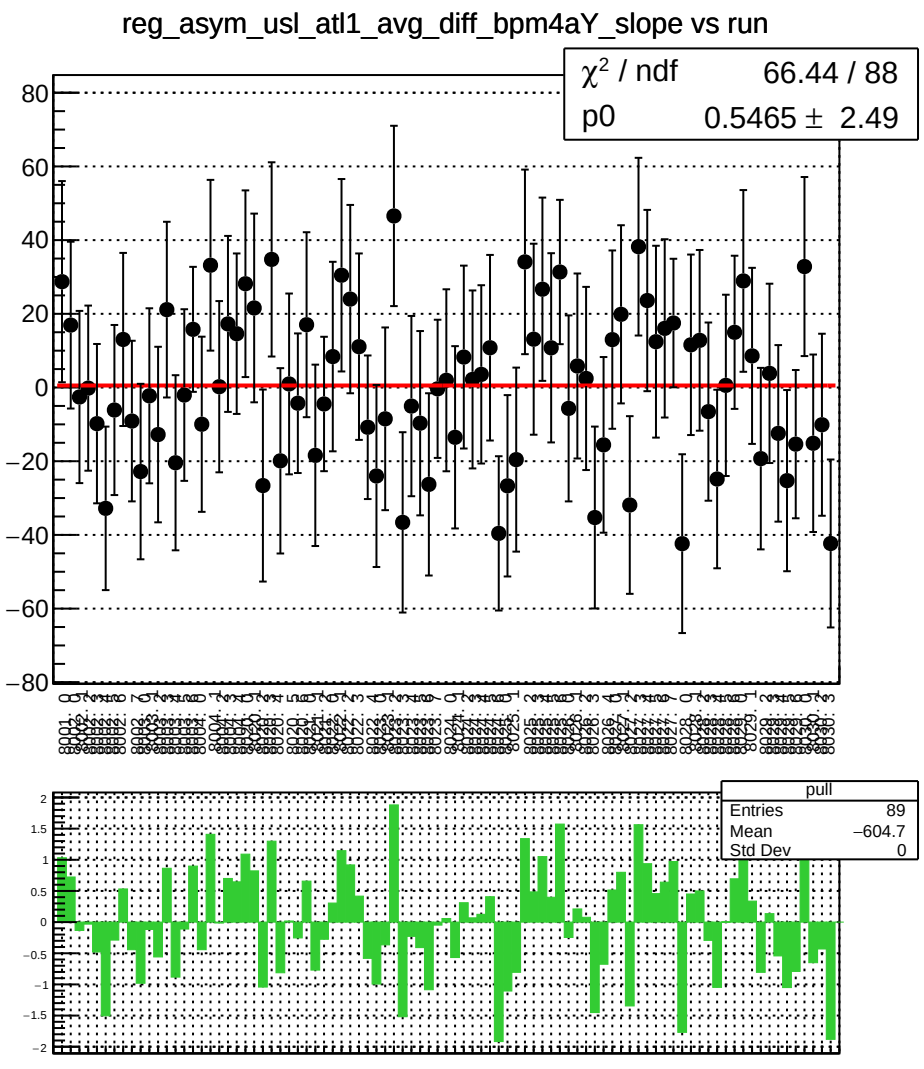

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 35.83 / 88
p0 −8.798 ± 3.047
pull
Entries 89
Mean 274.7
Std Dev 0

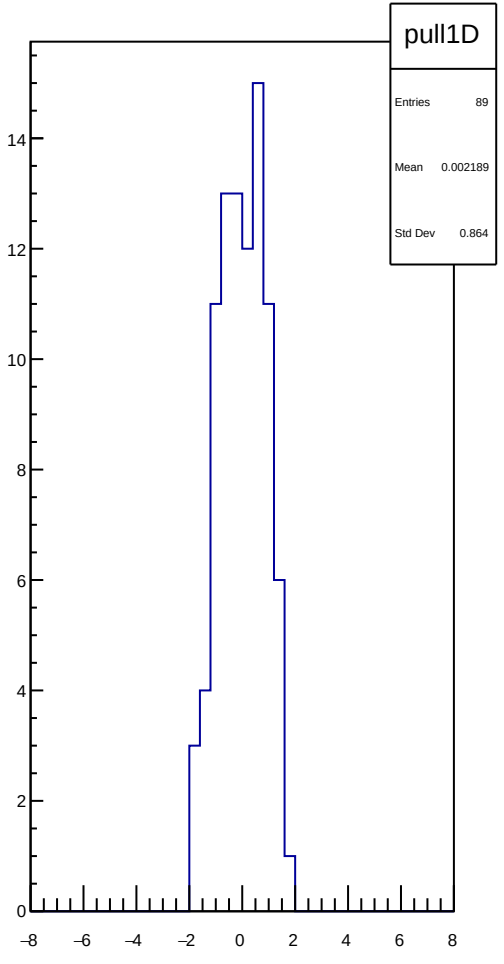

pull1D
Entries 89
Mean 0.001425
Std Dev 0.6345

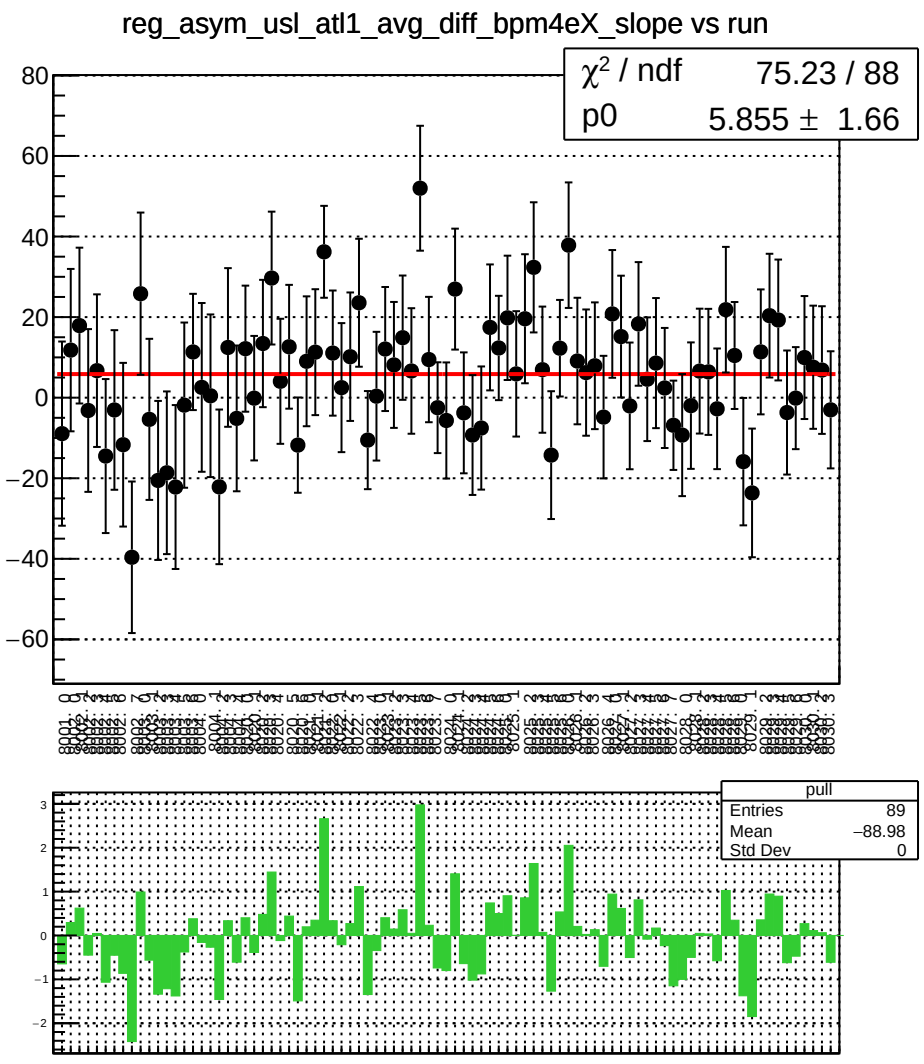

reg_asym_at1_dd_at2_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 93.55 / 88
p0 2.088 ± 0.1403
pull
Entries 89
Mean 98.7
Std Dev 0
pull1D
Entries 89
Mean −0.1735
Std Dev 1.01

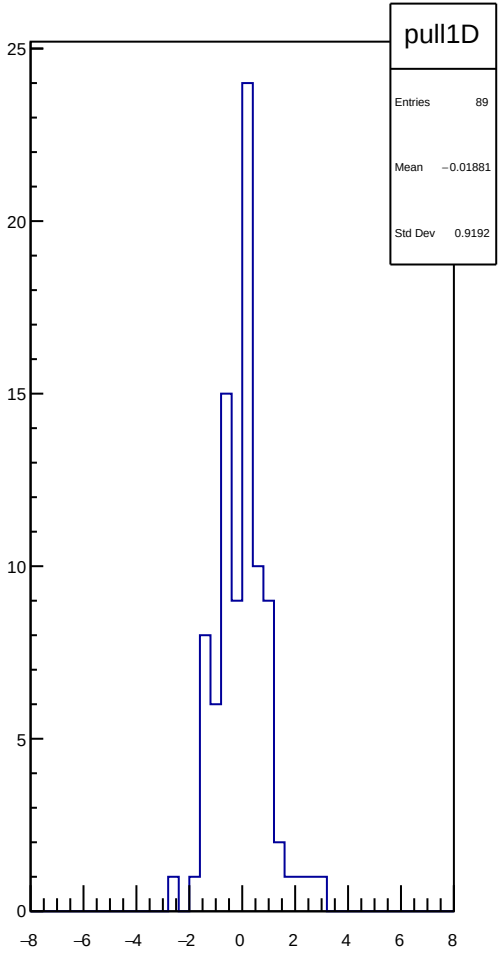

reg_asym_usl_atl1_avg_diff_bpm1X_slope vs run
χ² / ndf 78.43 / 88
p0 −23.57 ± 1.591
pull
Entries 89
Mean −42.4
Std Dev 0

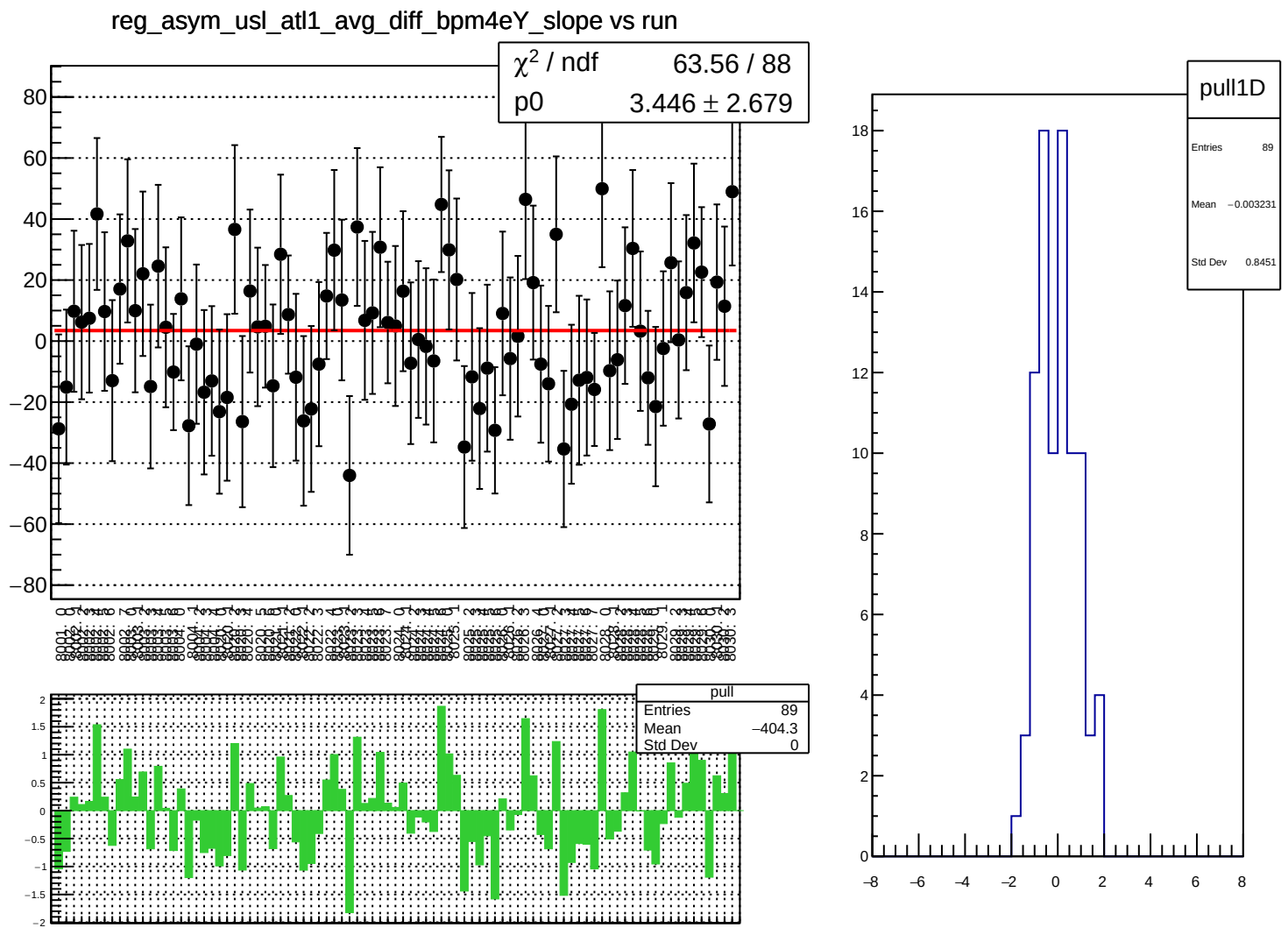

pull1D
Entries 89
Mean 0.03824
Std Dev 0.9379

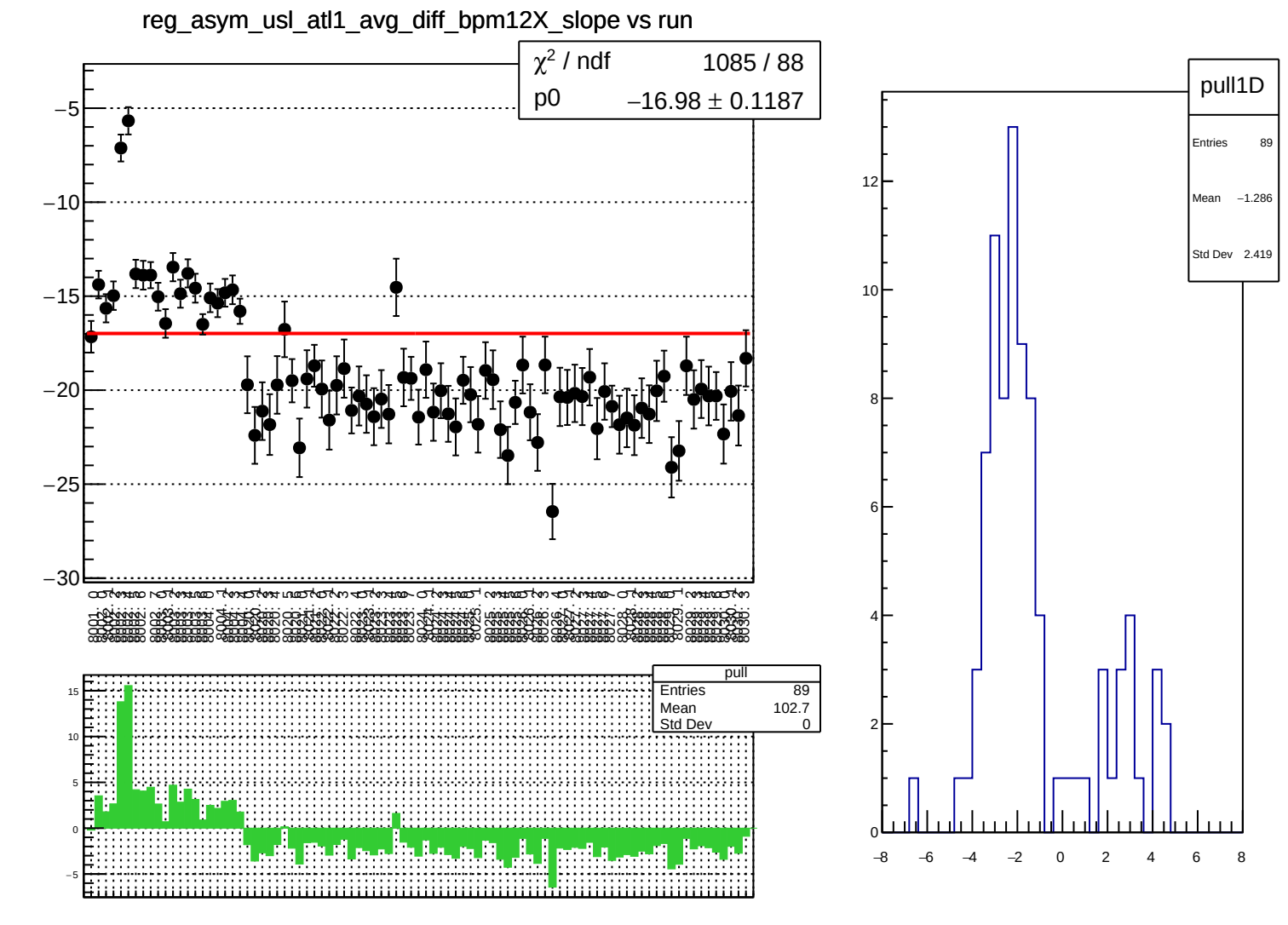

reg_asym_usl_atl1_avg_diff_bpm4aY_slope vs run
χ² / ndf 66.44 / 88
p0 0.5465 ± 2.49
pull
Entries 89
Mean −604.7
Std Dev 0

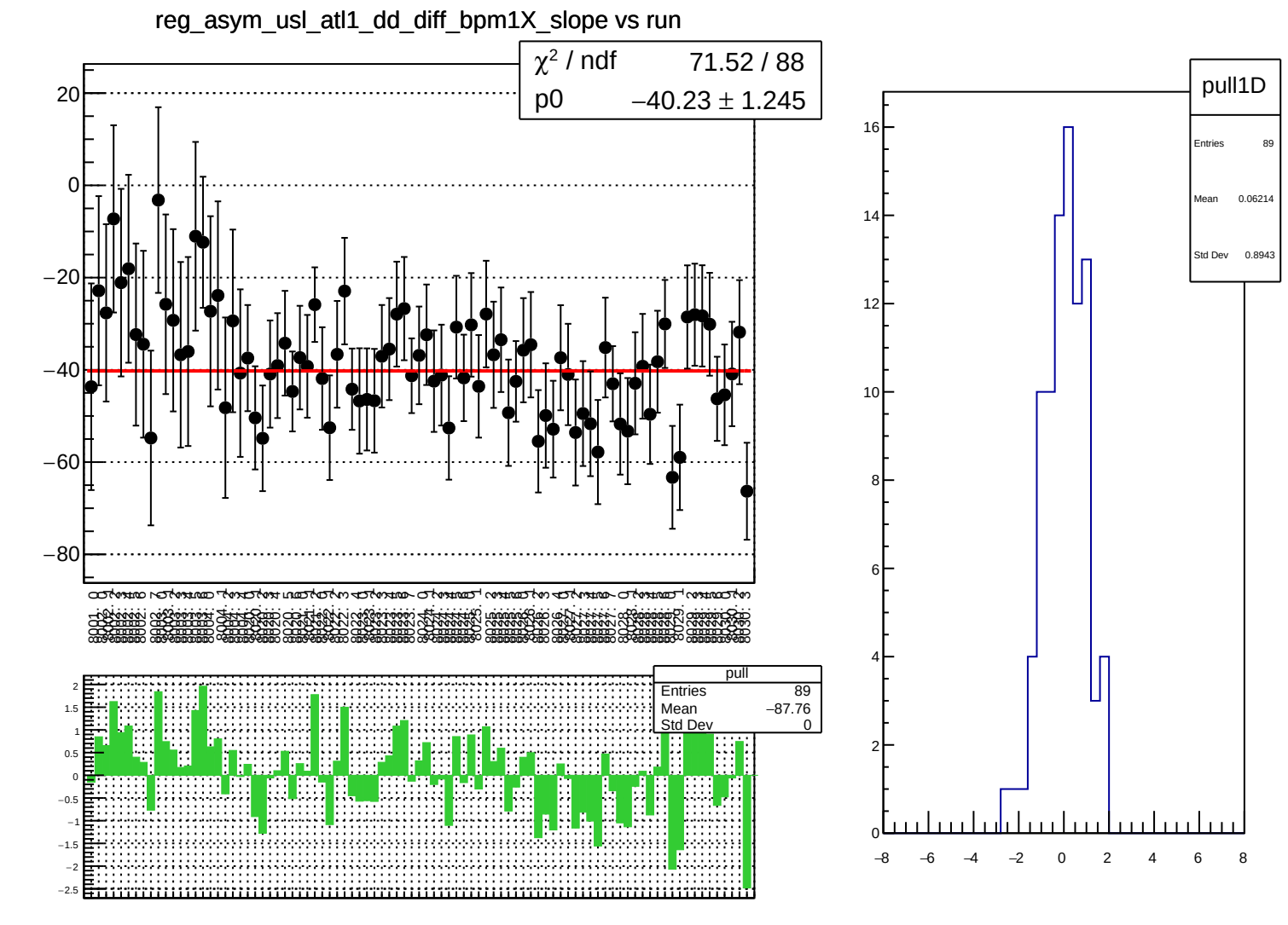

pull1D
Entries 89
Mean 0.002189
Std Dev 0.864

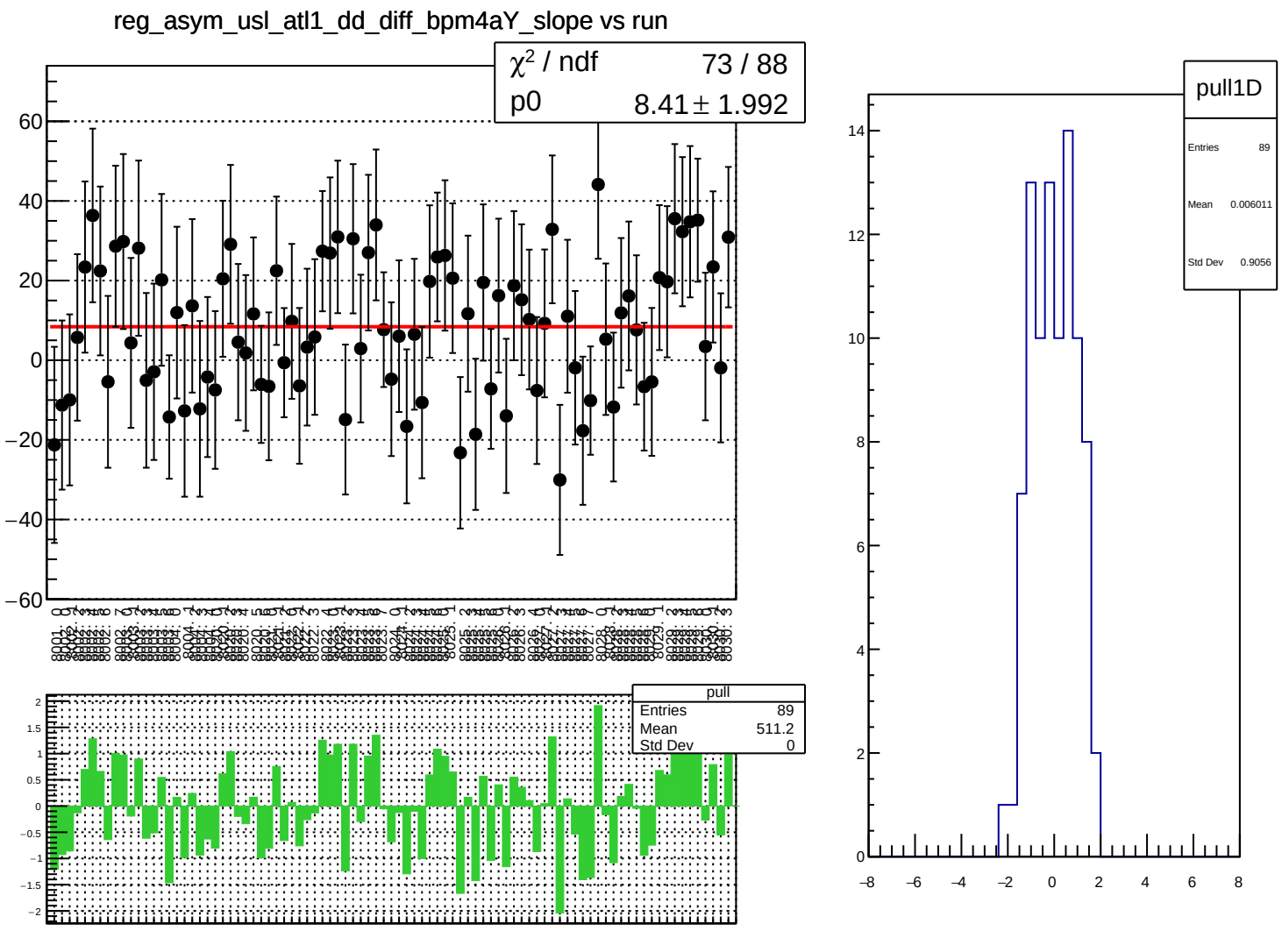

reg_asym_usl_atl1_avg_diff_bpm4eX_slope vs run
χ² / ndf 75.23 / 88
p0 5.855 ± 1.66
pull
Entries 89
Mean −88.98
Std Dev 0

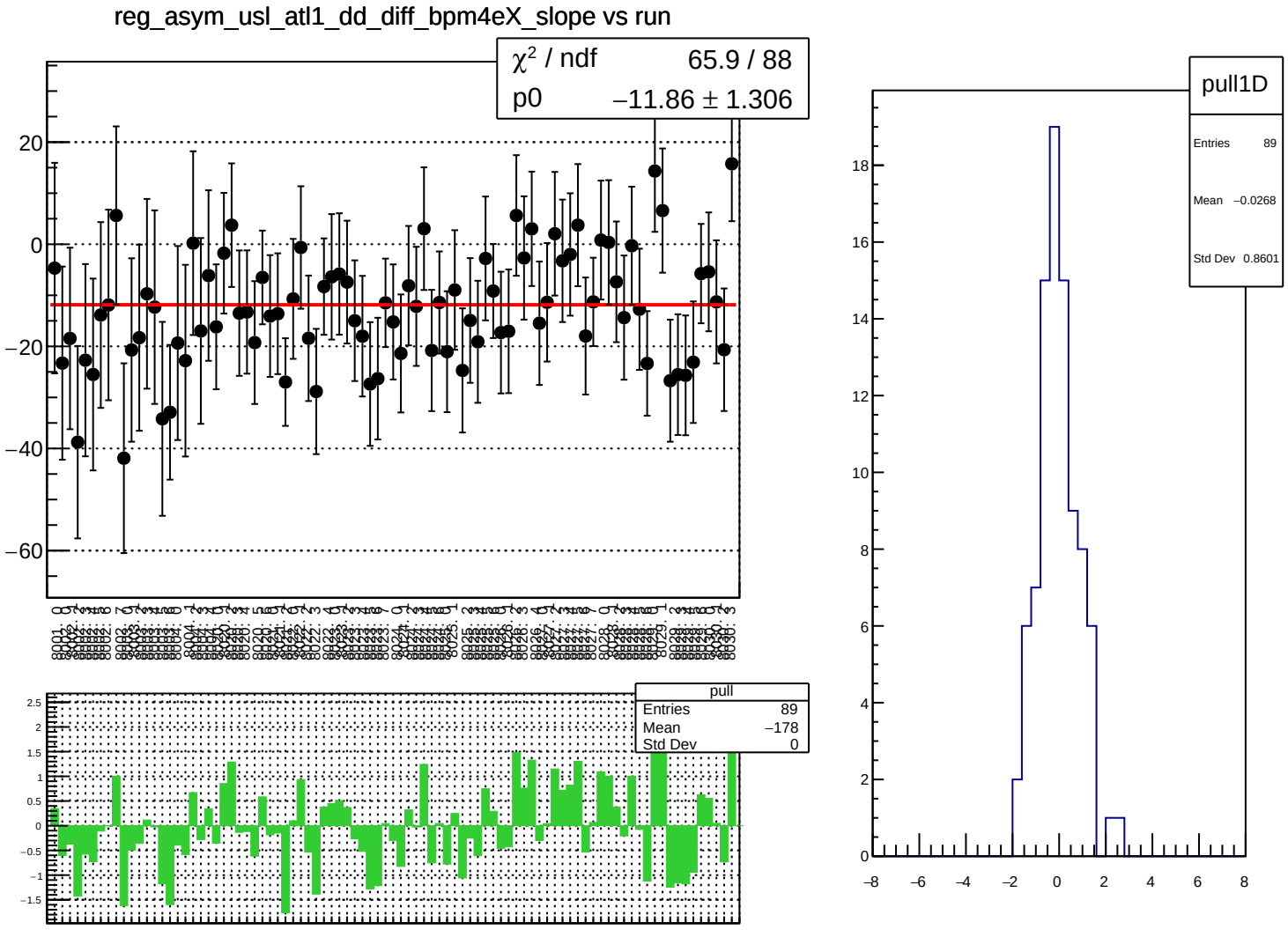

pull1D
Entries 89
Mean −0.01881
Std Dev 0.9192

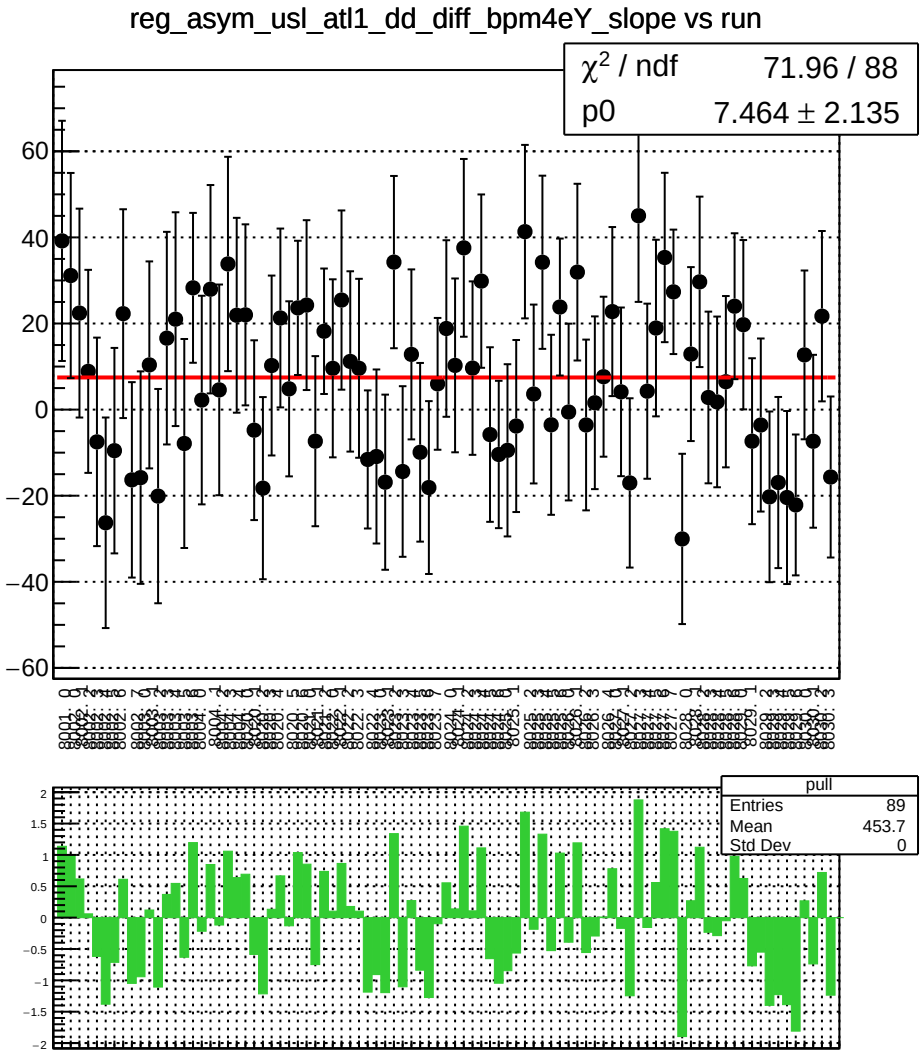

reg_asym_usl_atl1_avg_diff_bpm4eY_slope vs run
χ² / ndf 63.56 / 88
p0 3.446 ± 2.679
pull
Entries 89
Mean −404.3
Std Dev 0
pull1D
Entries 89
Mean −0.003231
Std Dev 0.8451

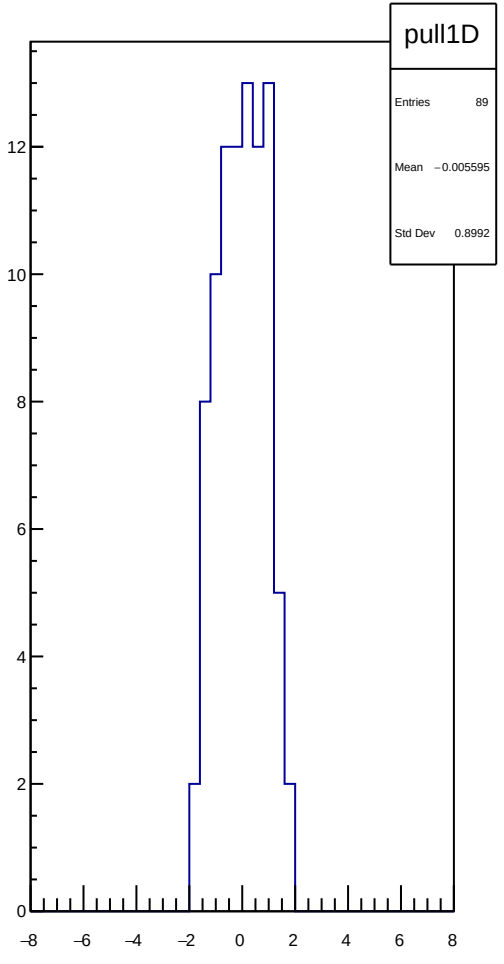

reg_asym_usl_atl1_avg_diff_bpm12X_slope vs run
χ² / ndf 1085 / 88
p0 −16.98 ± 0.1187
pull
Entries 89
Mean 102.7
Std Dev 0
pull1D
Entries 89
Mean −1.286
Std Dev 2.419

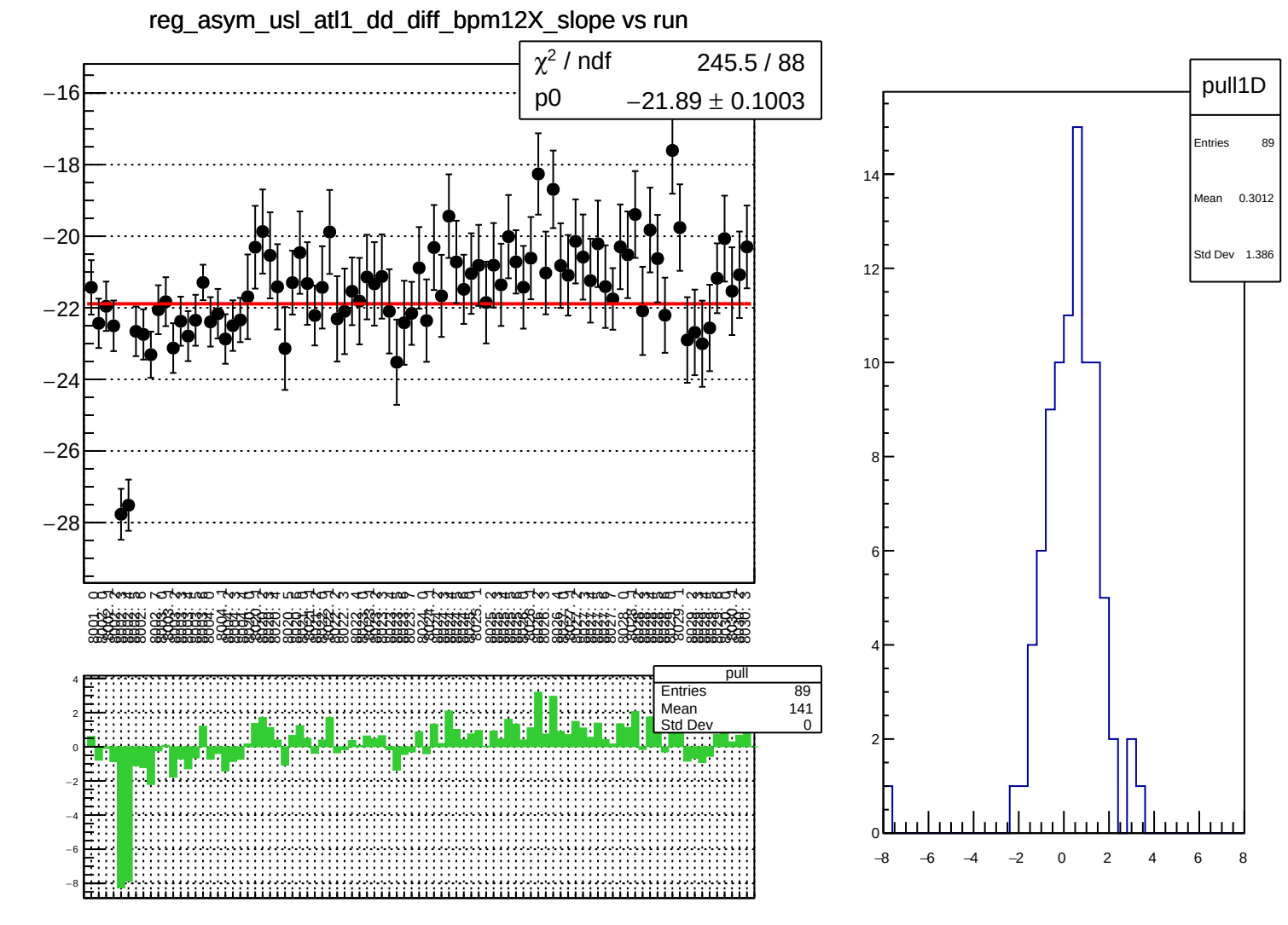

reg_asym_usl_atl1_dd_diff_bpm1X_slope vs run
χ² / ndf 71.52 / 88
p0 −40.23 ± 1.245
pull
Entries 89
Mean −87.76
Std Dev 0
pull1D
Entries 89
Mean 0.06214
Std Dev 0.8943

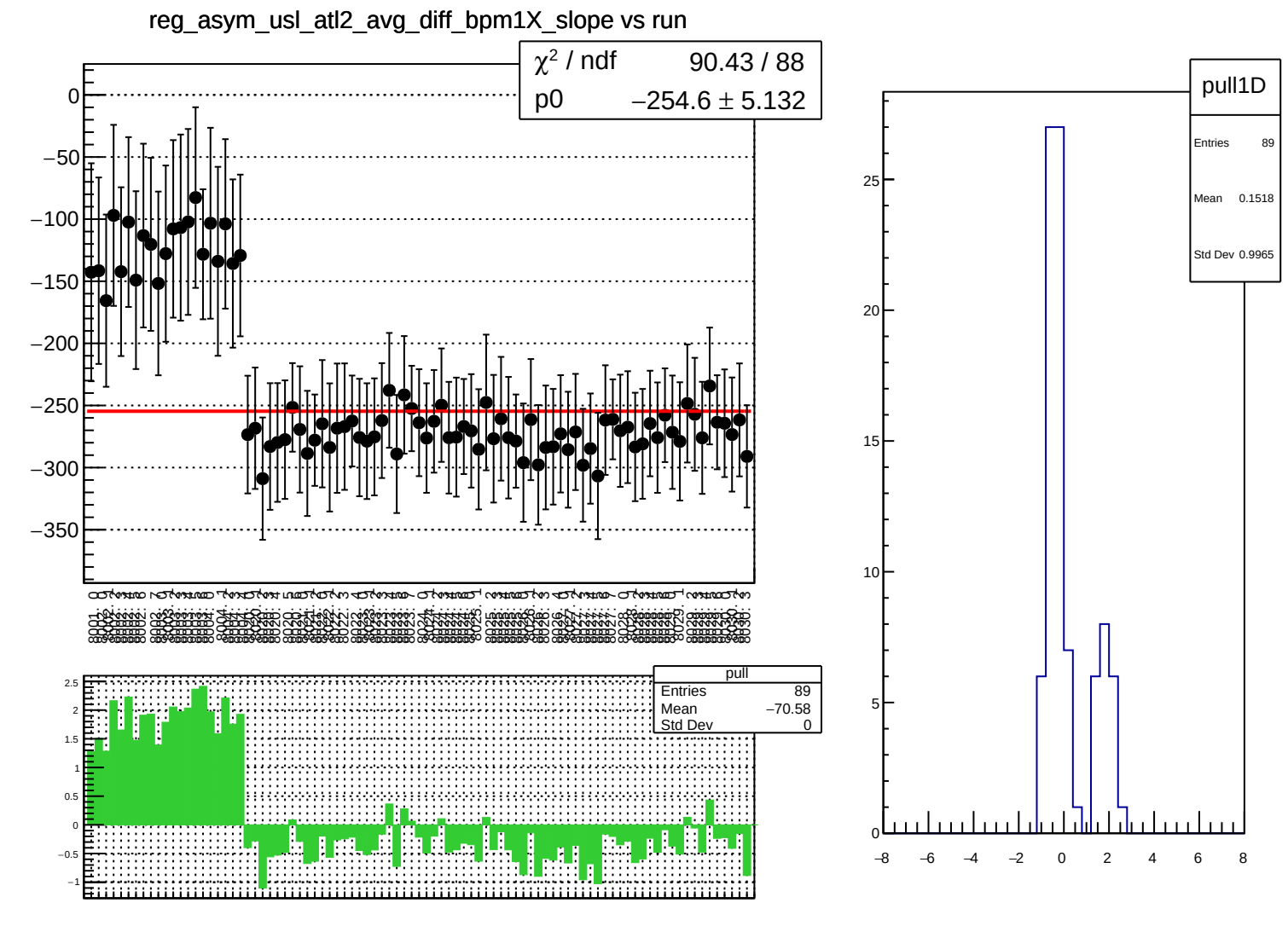

reg_asym_usl_atl1_dd_diff_bpm4aY_slope vs run
χ² / ndf 73 / 88
p0 8.41 ± 1.992
pull
Entries 89
Mean 511.2
Std Dev 0
pull1D
Entries 89
Mean 0.006011
Std Dev 0.9056

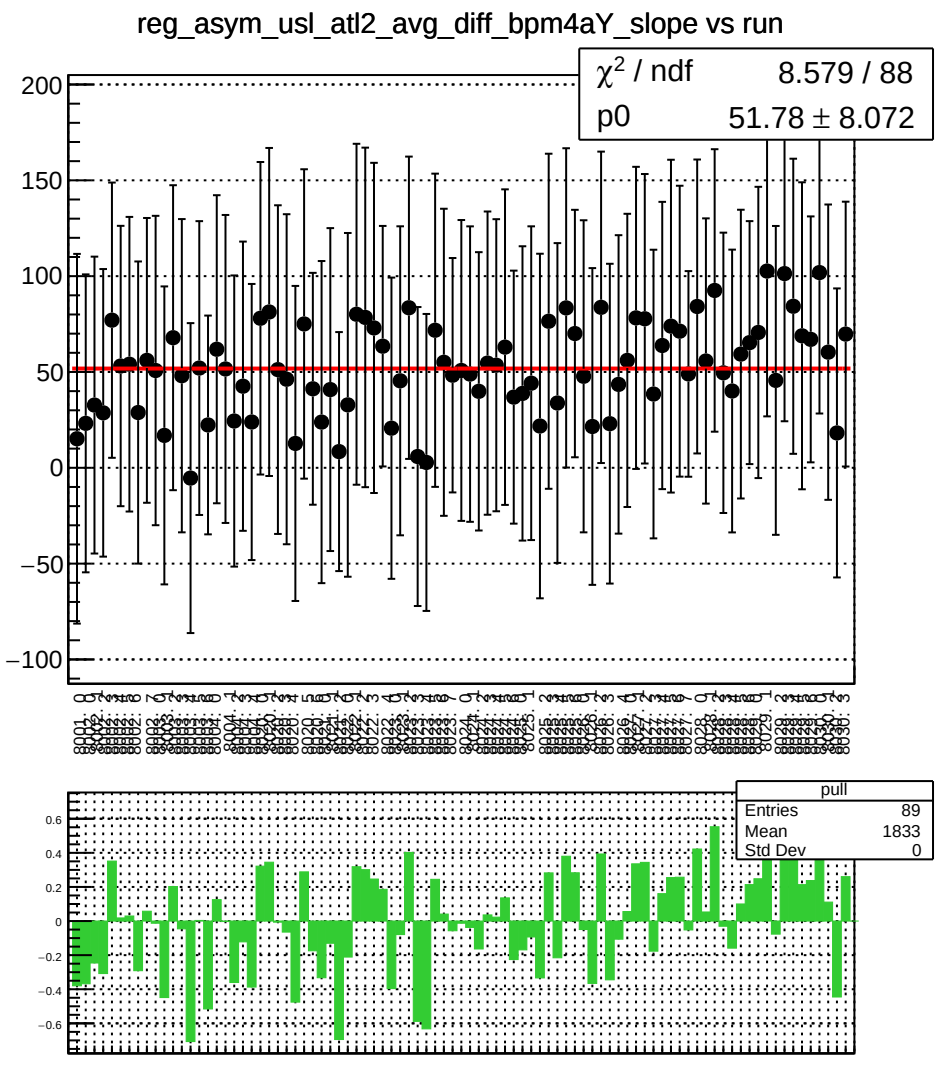

reg_asym_usl_atl1_dd_diff_bpm4eX_slope vs run
χ² / ndf 65.9 / 88
p0 −11.86 ± 1.306
pull
Entries 89
Mean −178
Std Dev 0
pull1D
Entries 89
Mean −0.0268
Std Dev 0.8601

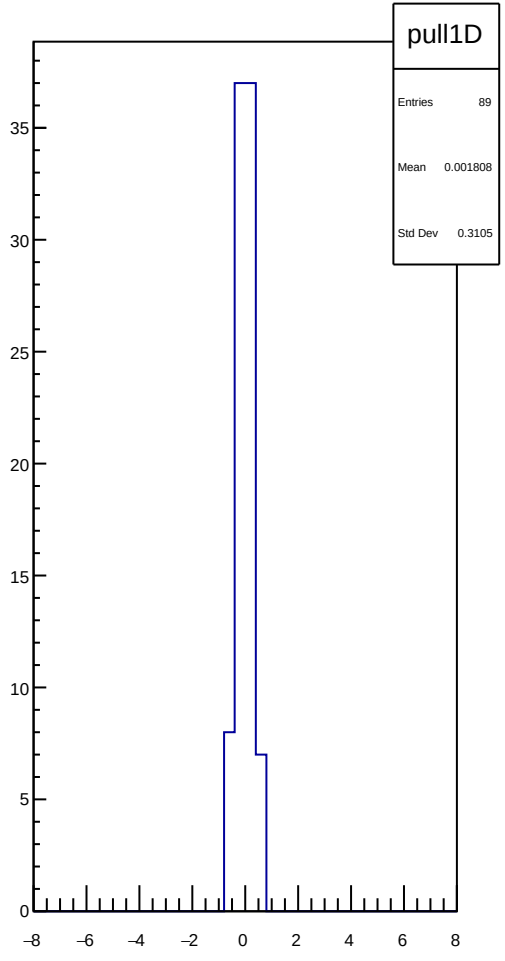

reg_asym_usl_atl1_dd_diff_bpm4eY_slope vs run
χ² / ndf 71.96 / 88
p0 7.464 ± 2.135
pull
Entries 89
Mean 453.7
Std Dev 0

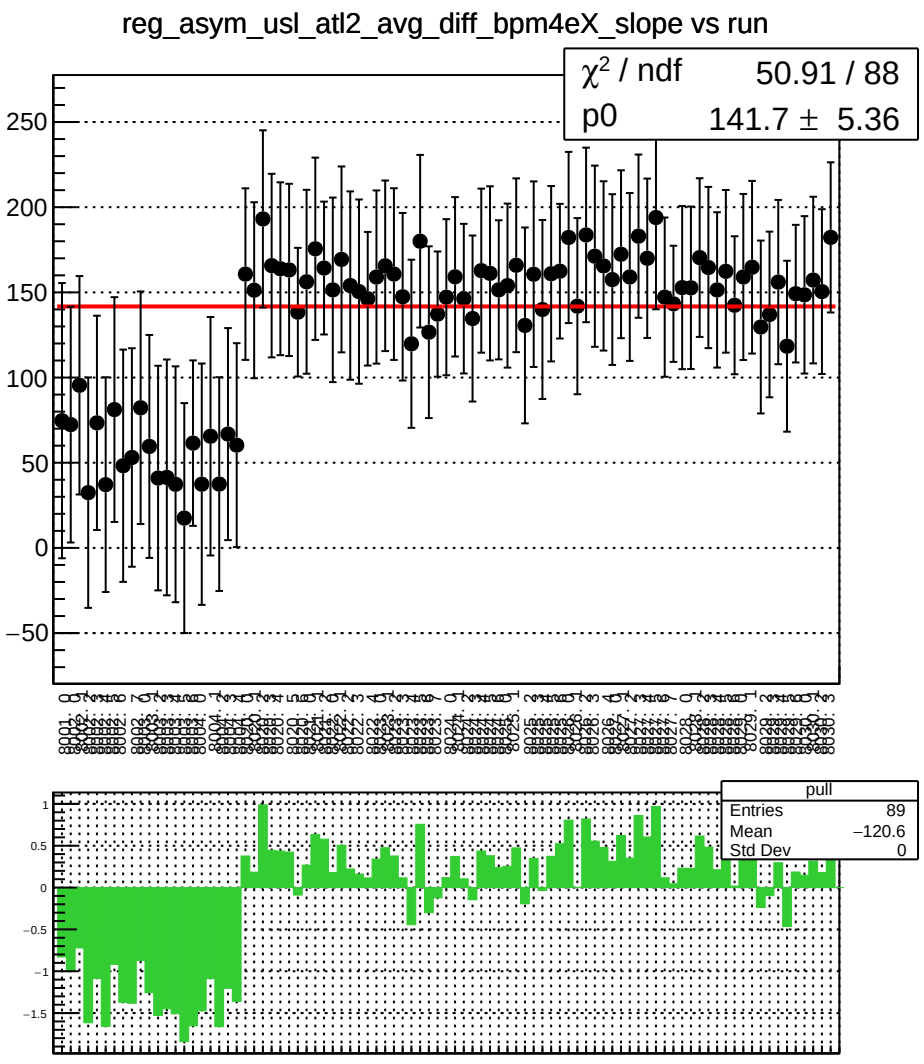

pull1D
Entries 89
Mean −0.005595
Std Dev 0.8992

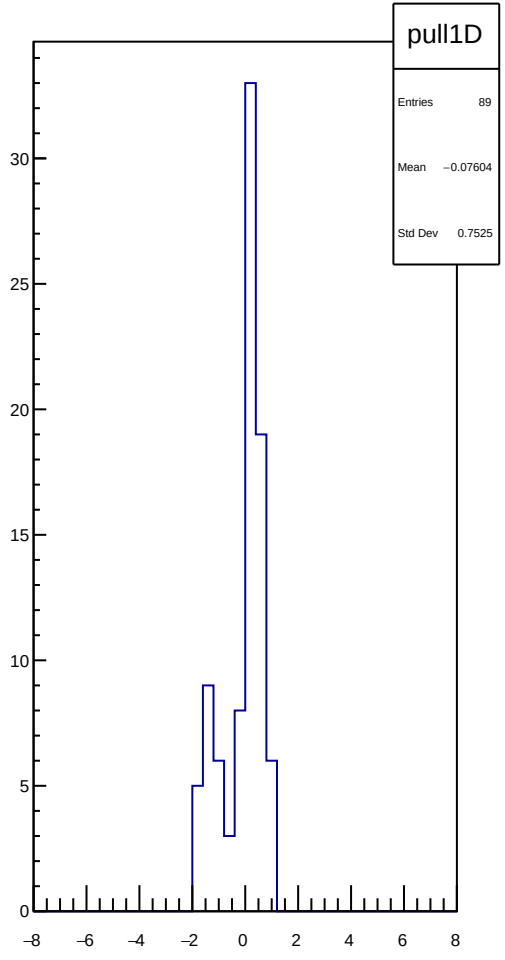

reg_asym_usl_atl1_dd_diff_bpm12X_slope vs run
χ² / ndf 245.5 / 88
p0 −21.89 ± 0.1003
pull
Entries 89
Mean 141
Std Dev 0
pull1D
Entries 89
Mean 0.3012
Std Dev 1.386

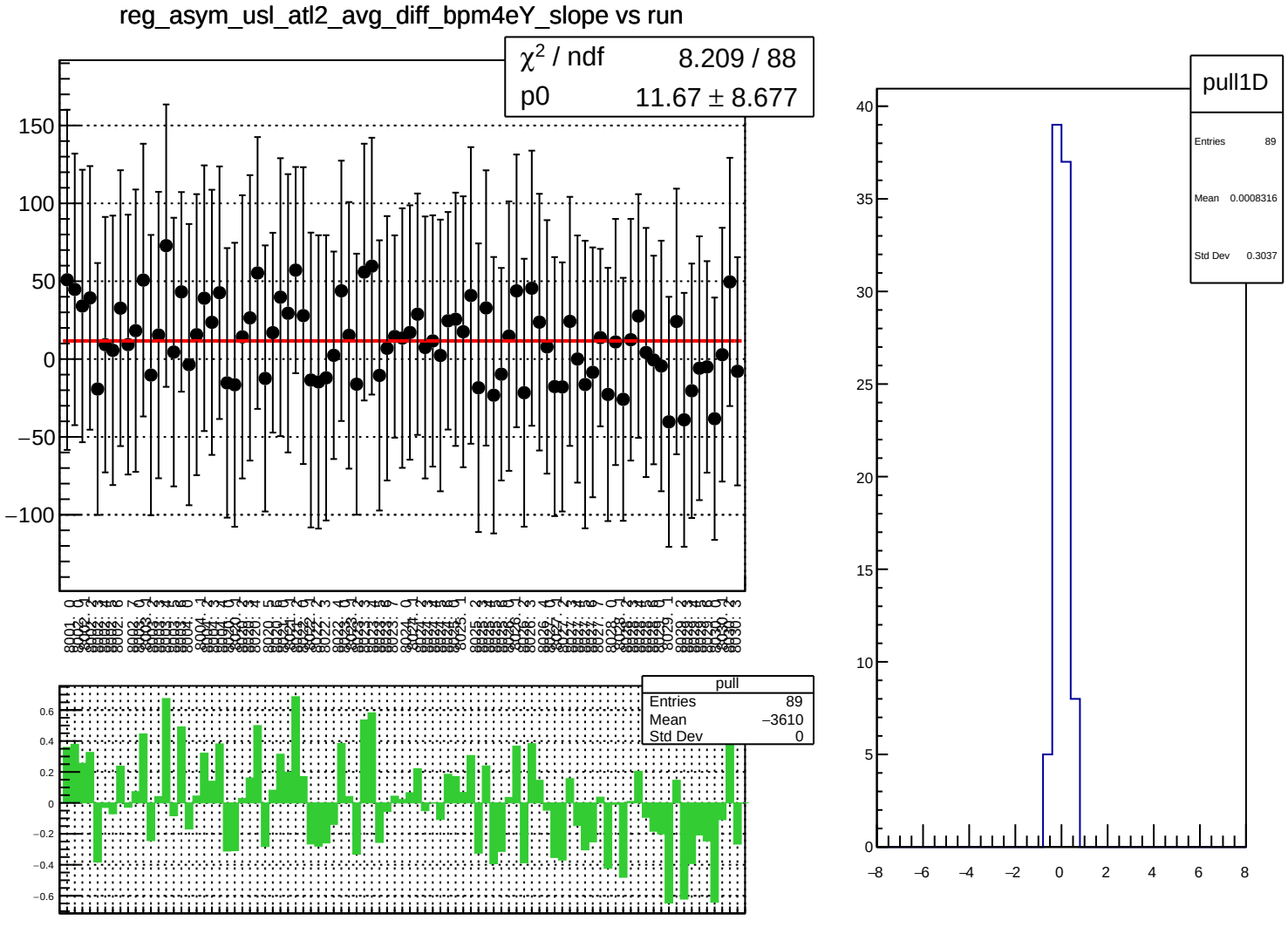

reg_asym_usl_atl2_avg_diff_bpm1X_slope vs run
χ² / ndf 90.43 / 88
p0 −254.6 ± 5.132
pull
Entries 89
Mean −70.58
Std Dev 0
pull1D
Entries 89
Mean 0.1518
Std Dev 0.9965

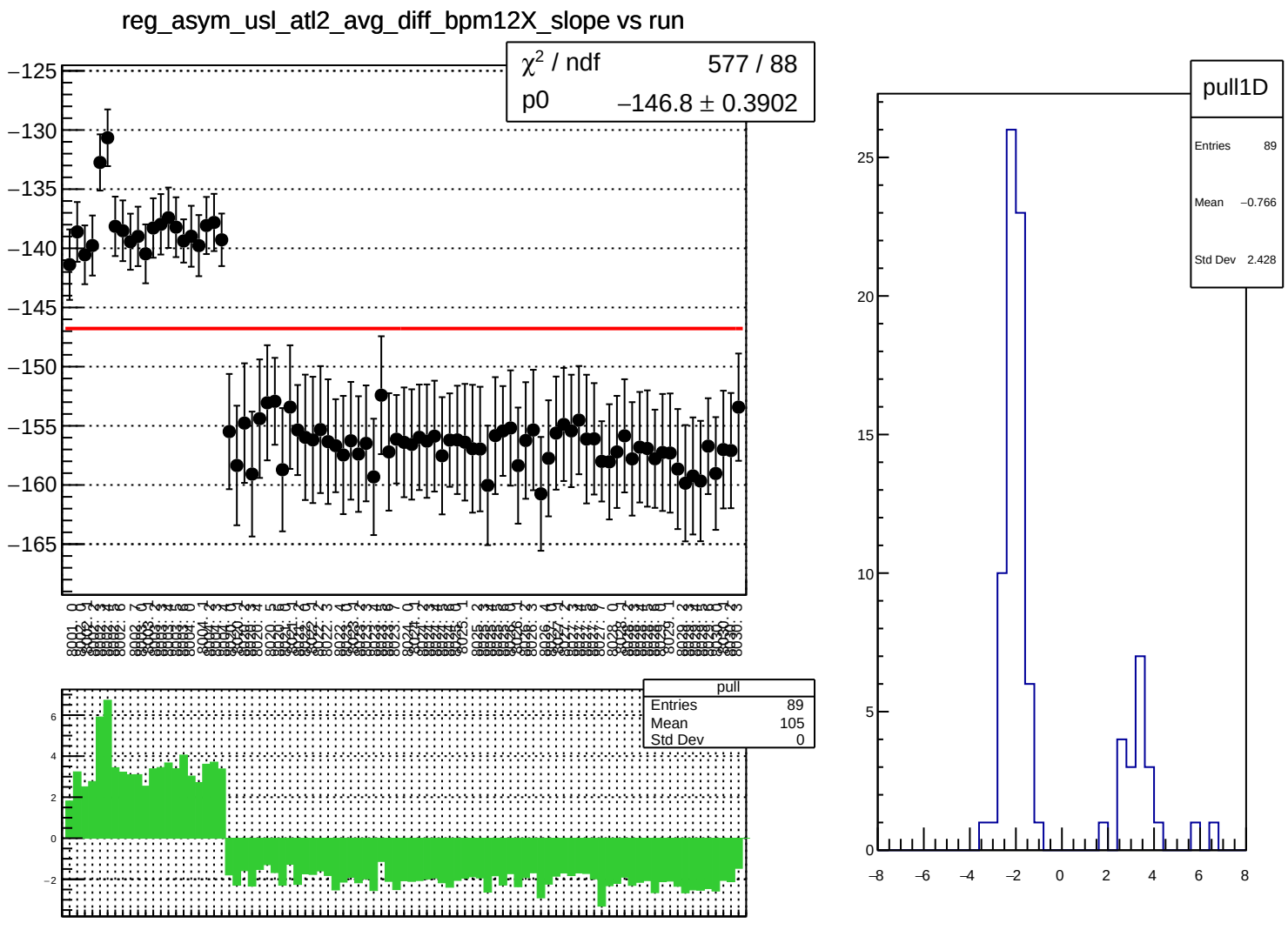

reg_asym_usl_atl2_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.579 / 88
p0 51.78 ± 8.072
200
150
100
50
0
−50
−100
pull
Entries 89
Mean 1833
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

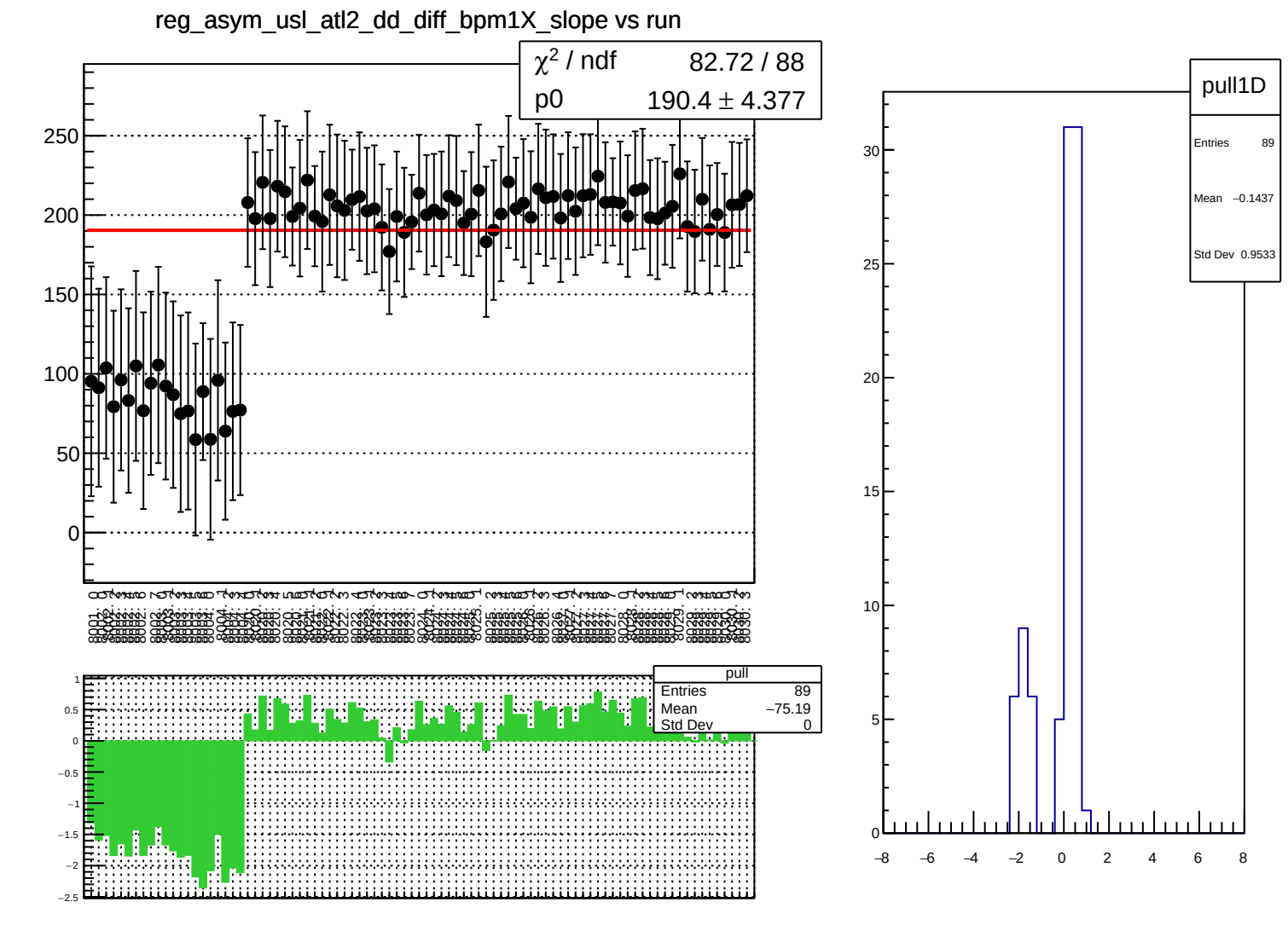

pull1D
Entries 89
Mean 0.001808
Std Dev 0.3105
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

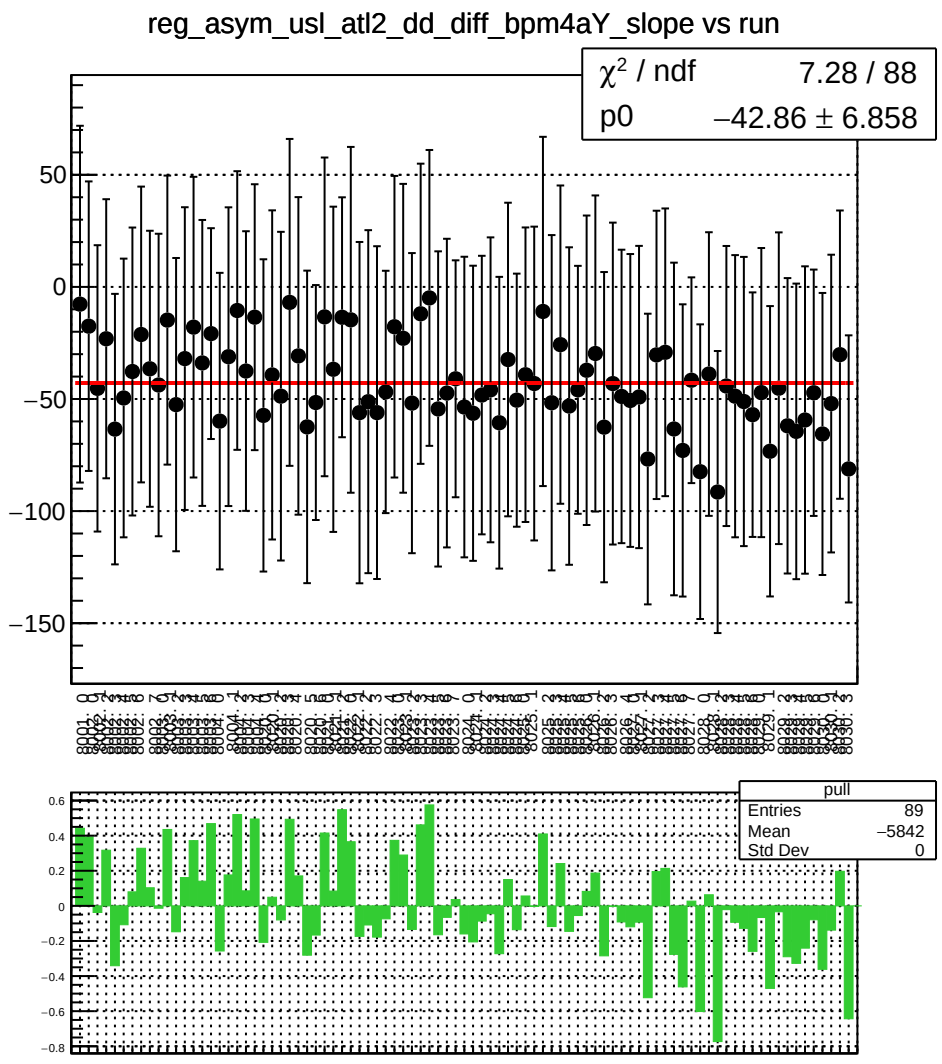

reg_asym_usl_atl2_avg_diff_bpm4eX_slope vs run
χ² / ndf 50.91 / 88
p0 141.7 ± 5.36
250
200
150
100
50
0
−50
pull
Entries 89
Mean −120.6
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

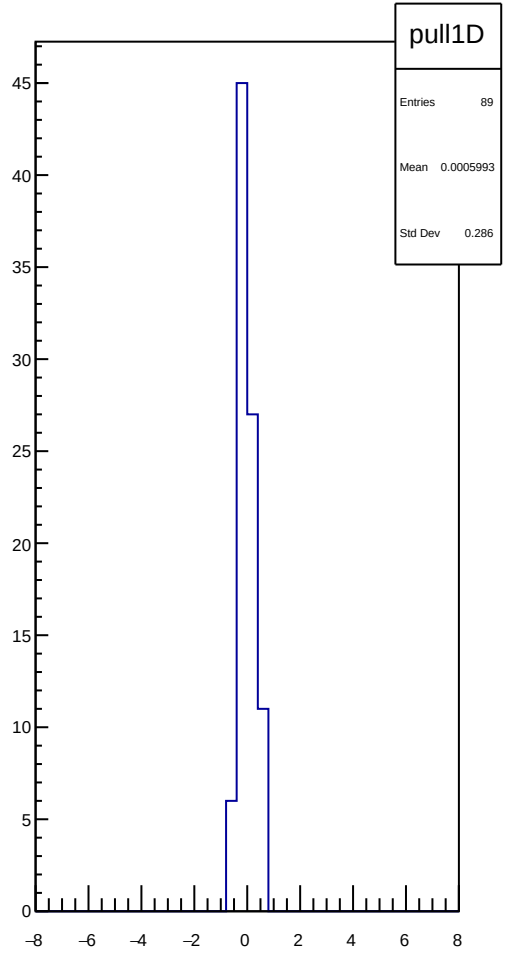

pull1D
Entries 89
Mean −0.07604
Std Dev 0.7525
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

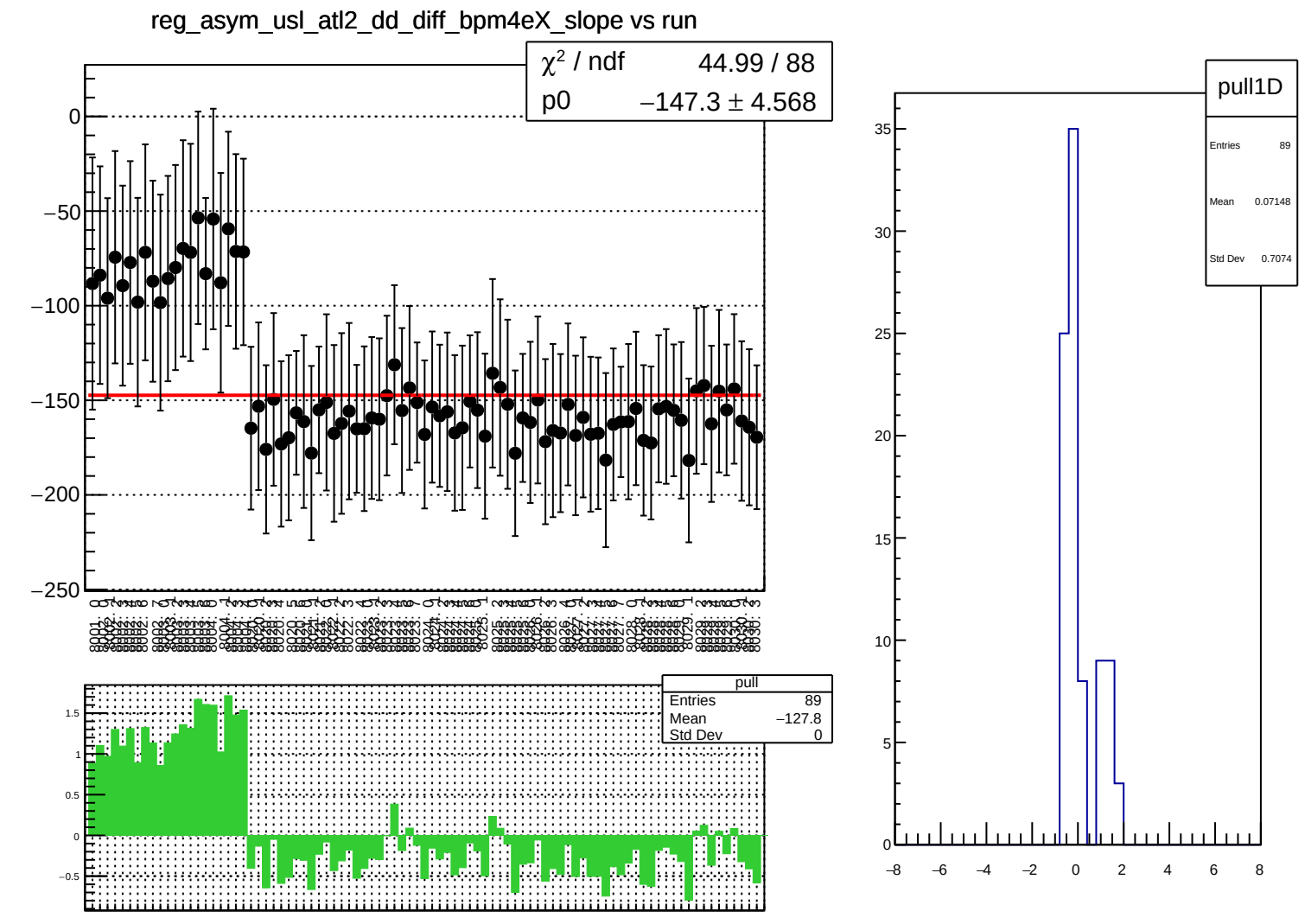

reg_asym_usl_atl2_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.209 / 88
p0 11.67 ± 8.677
150
100
50
0
−50
−100
pull
Entries 89
Mean −3610
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 89
Mean 0.0008316
Std Dev 0.3037
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

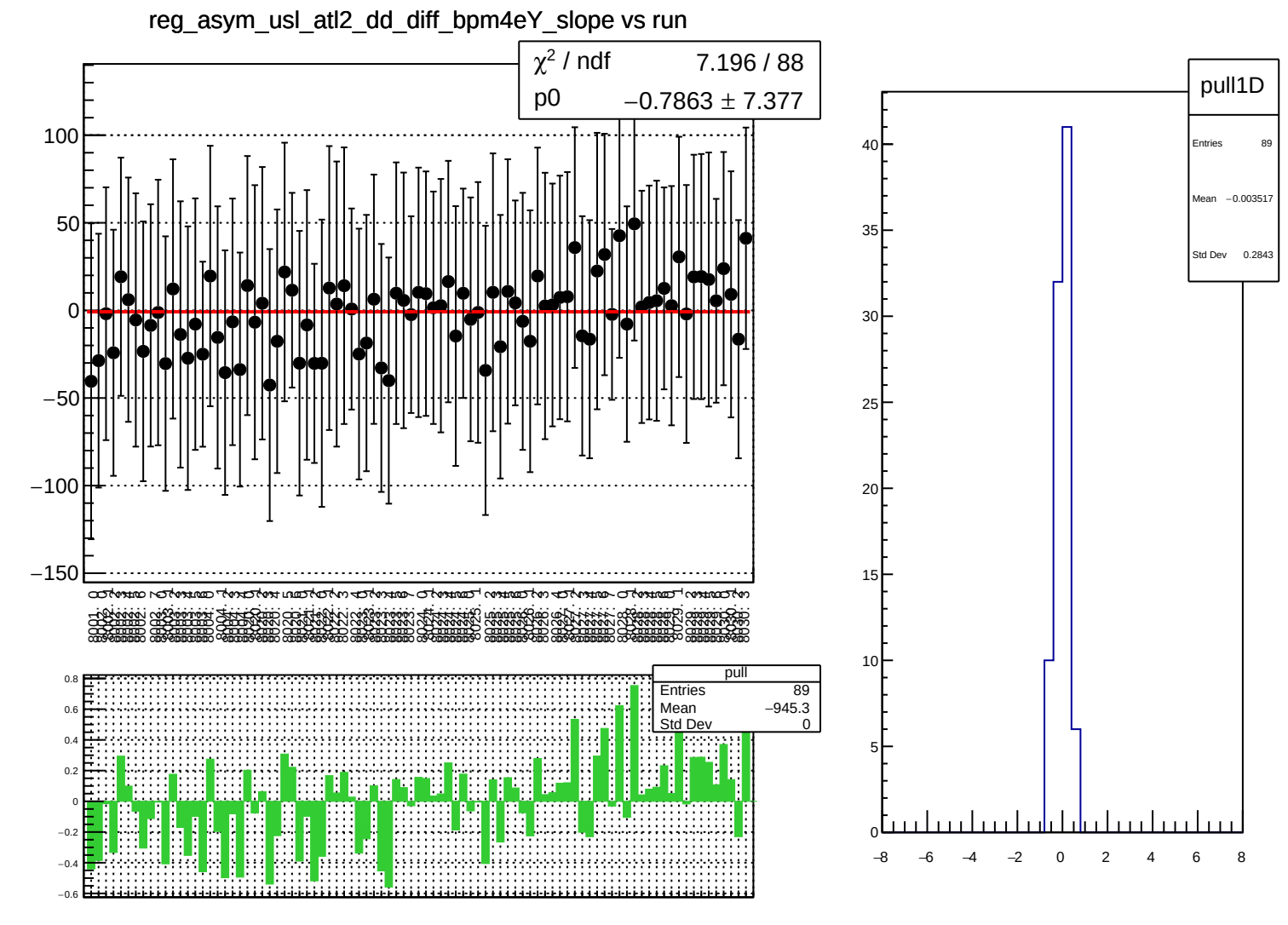

reg_asym_usl_atl2_avg_diff_bpm12X_slope vs run
χ² / ndf 577 / 88
p0 −146.8 ± 0.3902
pull
Entries 89
Mean 105
Std Dev 0
pull1D
Entries 89
Mean −0.766
Std Dev 2.428

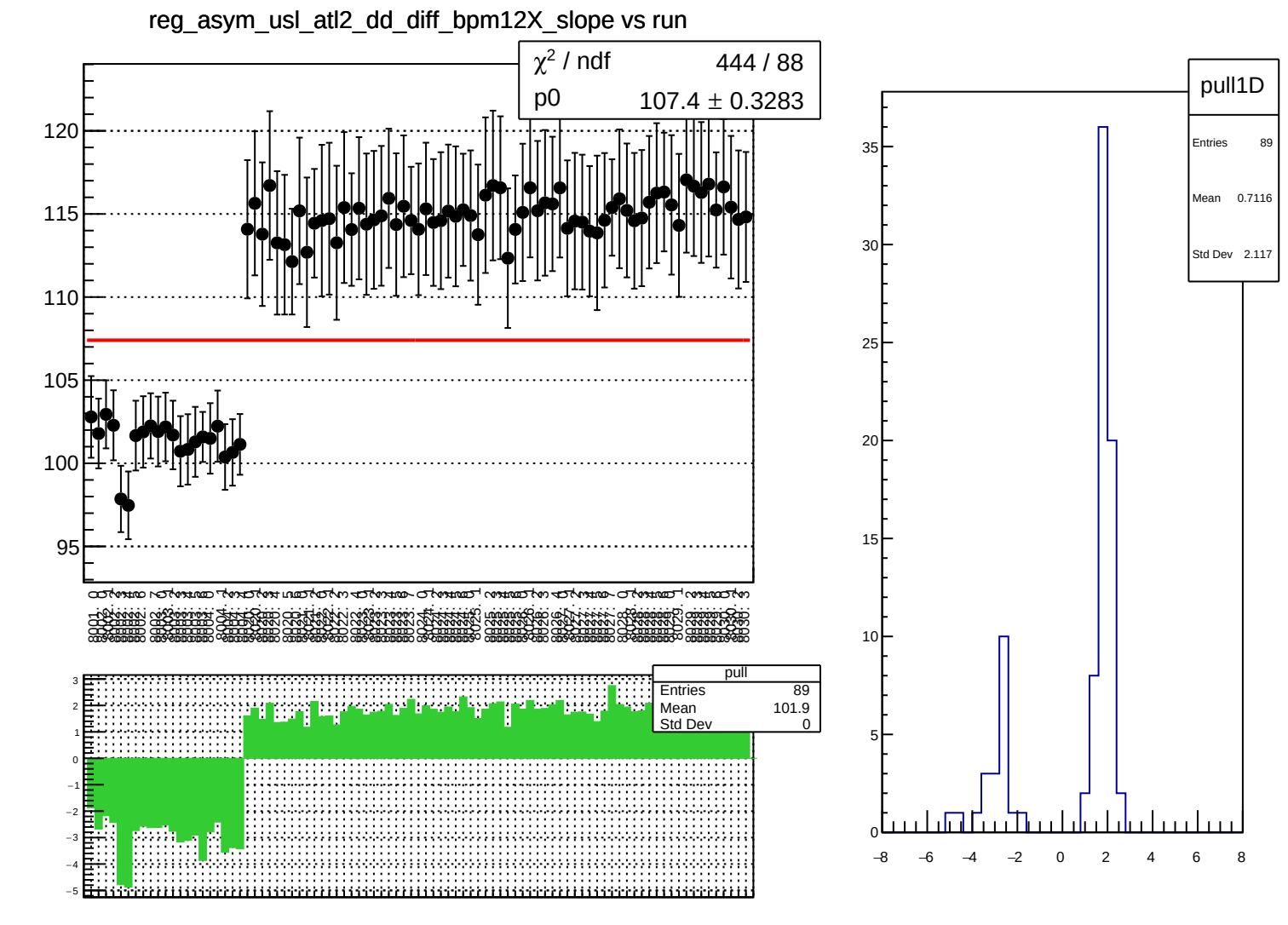

reg_asym_usl_atl2_dd_diff_bpm1X_slope vs run
χ² / ndf 82.72 / 88
p0 190.4 ± 4.377
250
200
150
100
50
0
pull
Entries 89
Mean −75.19
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 89
Mean −0.1437
Std Dev 0.9533
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

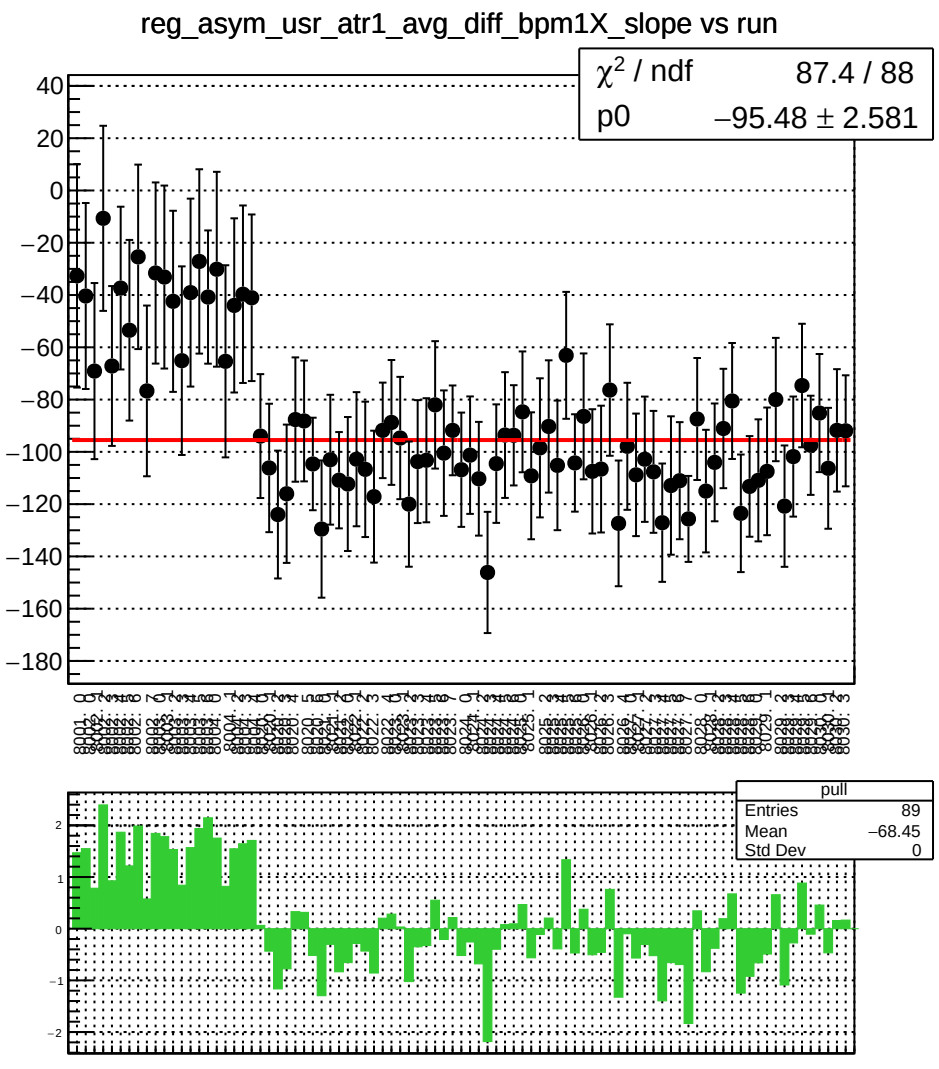

reg_asym_usl_atl2_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.28 / 88
p0 −42.86 ± 6.858
50
0
−50
−100
−150
pull
Entries 89
Mean −5842
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

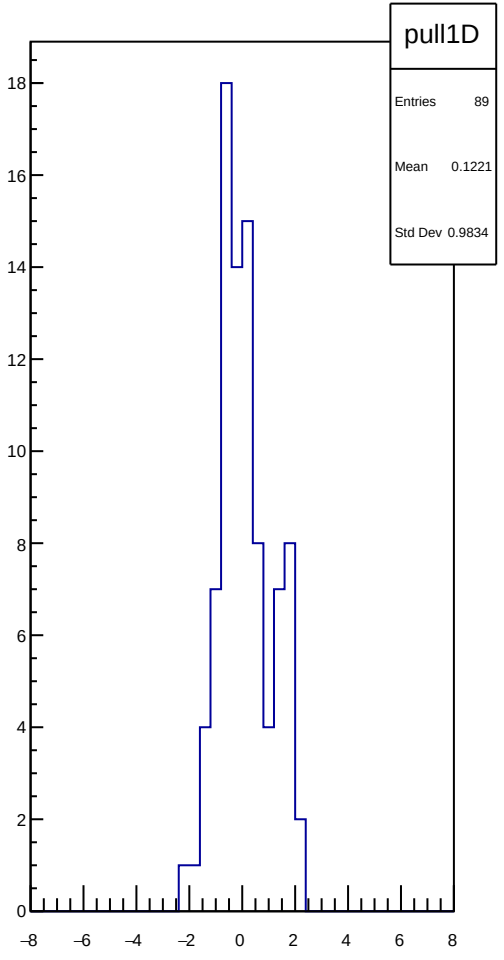

pull1D
Entries 89
Mean 0.0005993
Std Dev 0.286
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

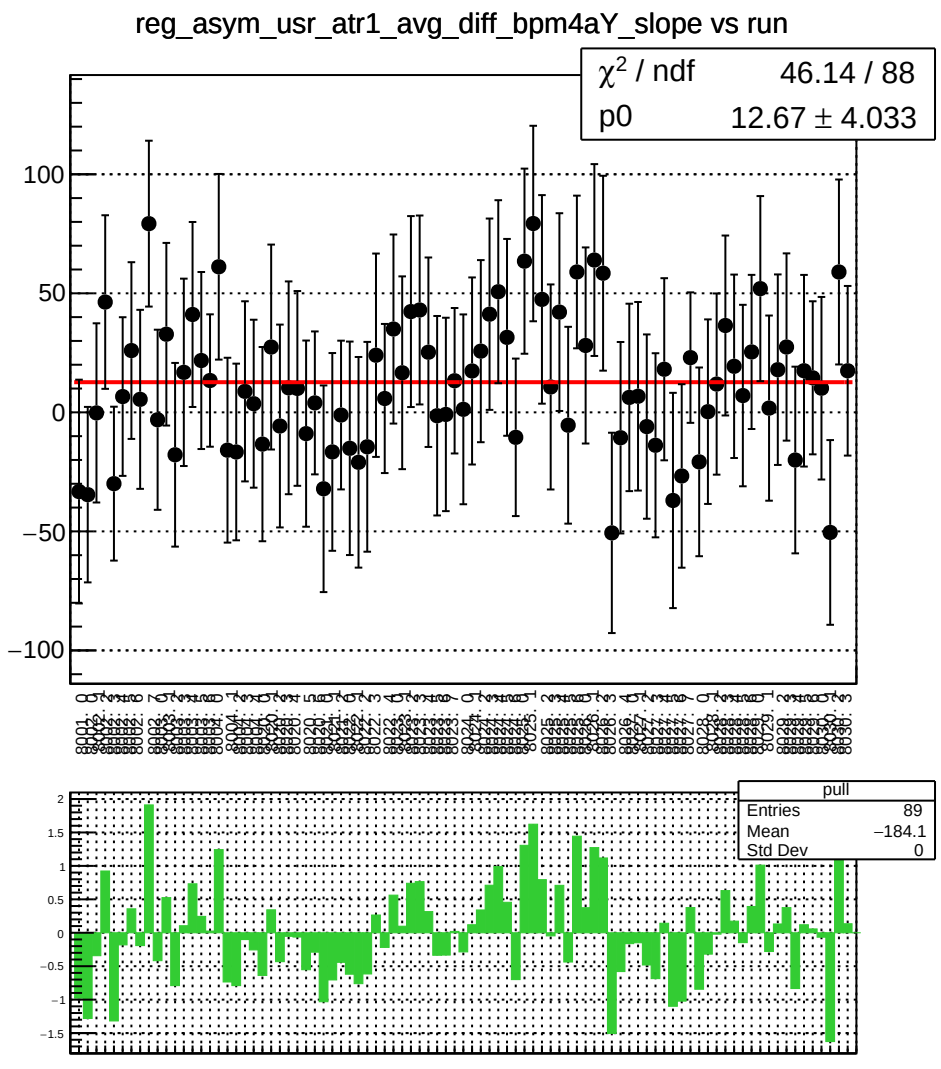

reg_asym_usl_atl2_dd_diff_bpm4eX_slope vs run
χ² / ndf 44.99 / 88
p0 −147.3 ± 4.568
pull
Entries 89
Mean −127.8
Std Dev 0
pull1D
Entries 89
Mean 0.07148
Std Dev 0.7074

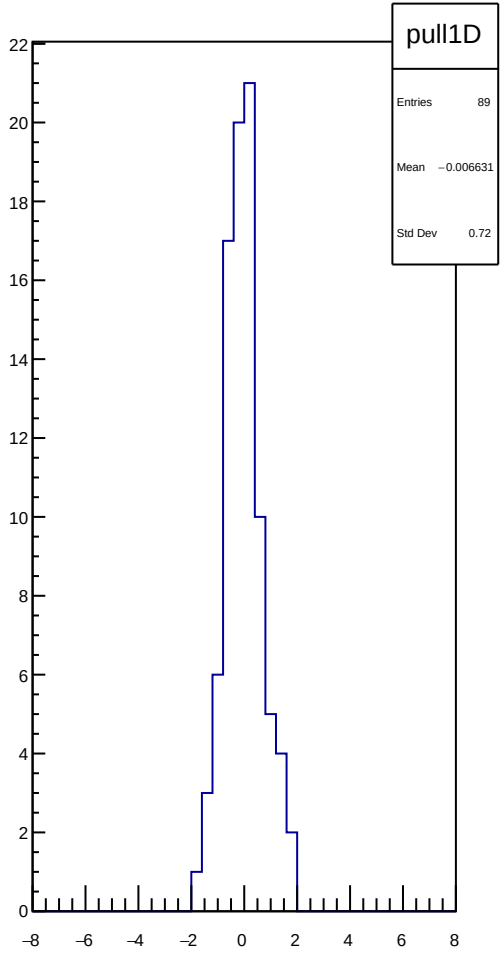

reg_asym_usl_atl2_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.196 / 88
p0 −0.7863 ± 7.377
pull
Entries 89
Mean −945.3
Std Dev 0
pull1D
Entries 89
Mean −0.003517
Std Dev 0.2843

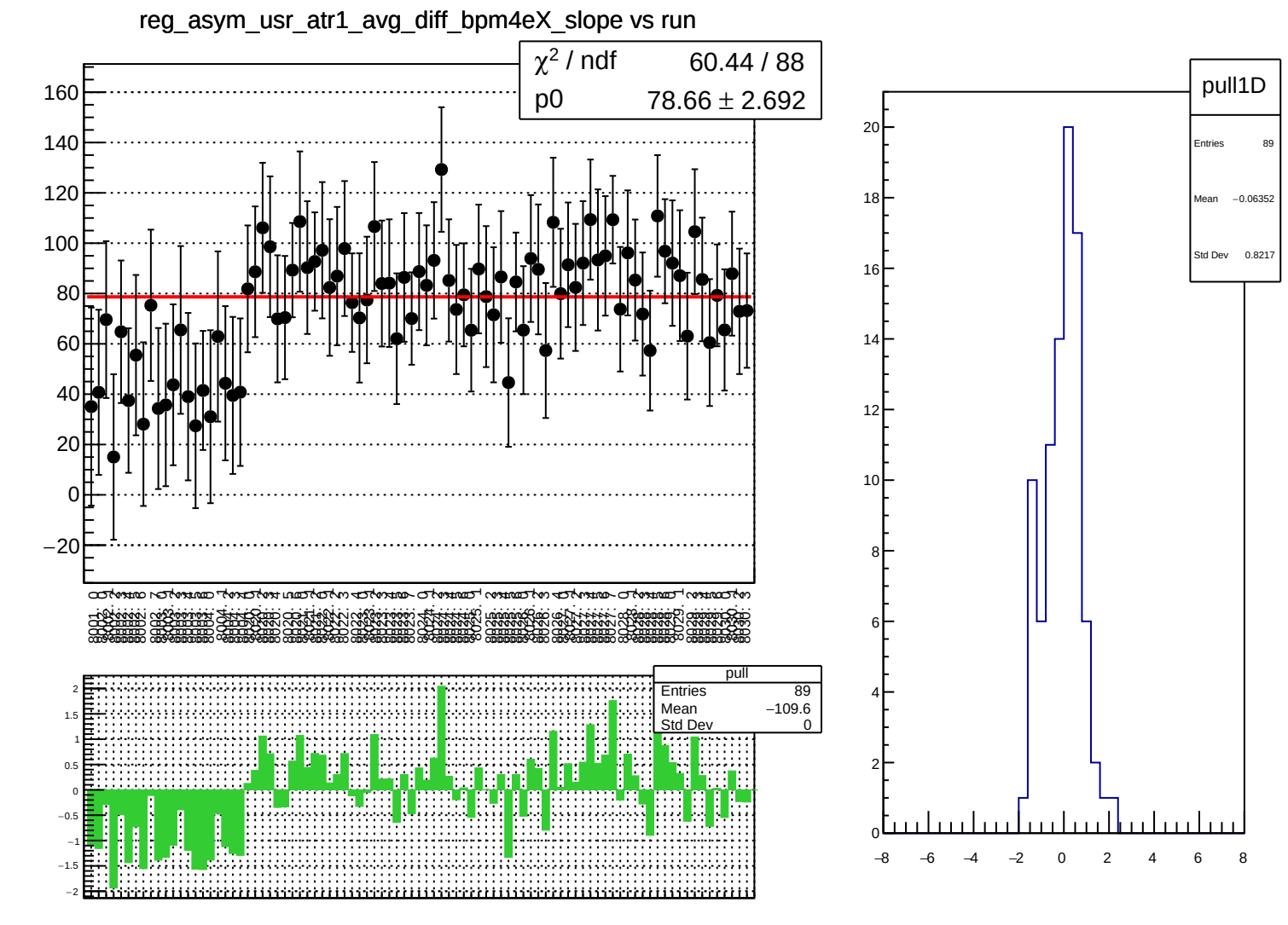

reg_asym_usl_atl2_dd_diff_bpm12X_slope vs run
χ² / ndf 444 / 88
p0 107.4 ± 0.3283
120
115
110
105
100
95
pull
Entries 89
Mean 101.9
Std Dev 0
3
2
1
0
−1
−2
−3
−4
−5
pull1D
Entries 89
Mean 0.7116
Std Dev 2.117
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

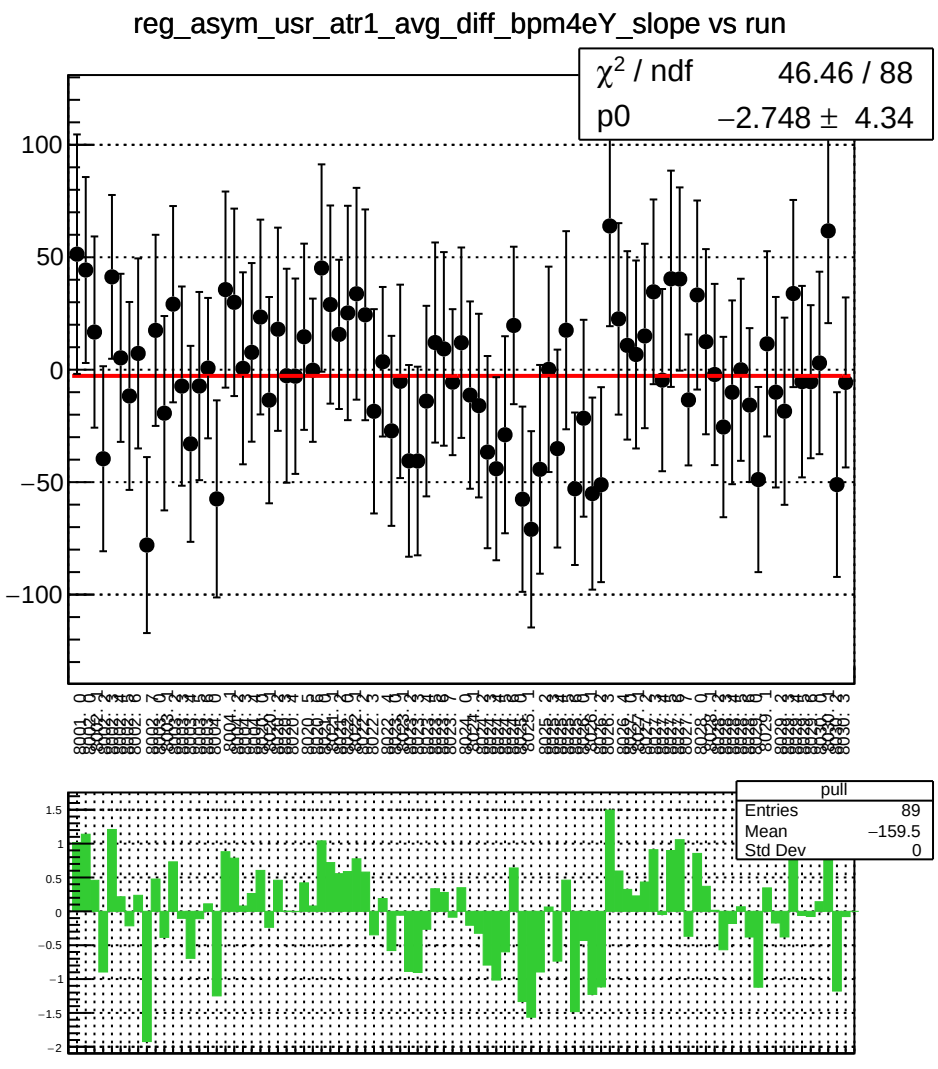

reg_asym_usr_atr1_avg_diff_bpm1X_slope vs run
χ² / ndf 87.4 / 88
p0 −95.48 ± 2.581
pull
Entries 89
Mean −68.45
Std Dev 0

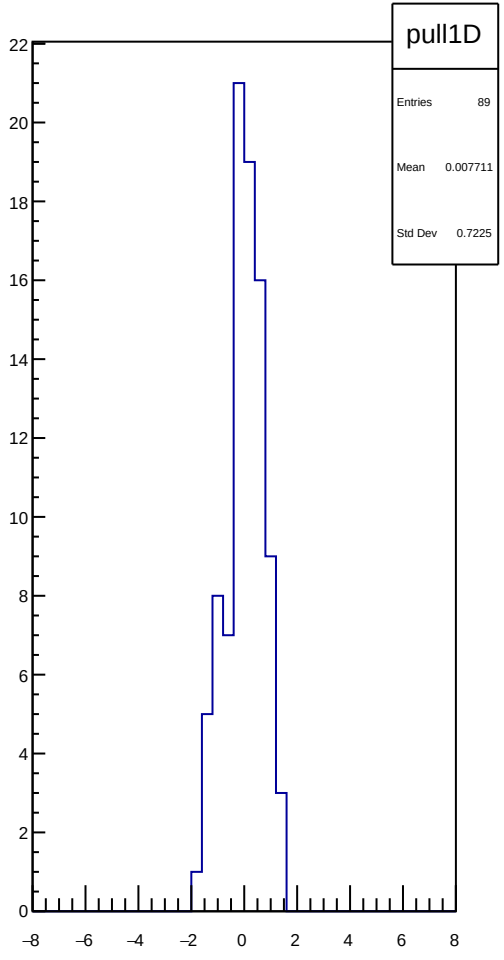

pull1D
Entries 89
Mean 0.1221
Std Dev 0.9834

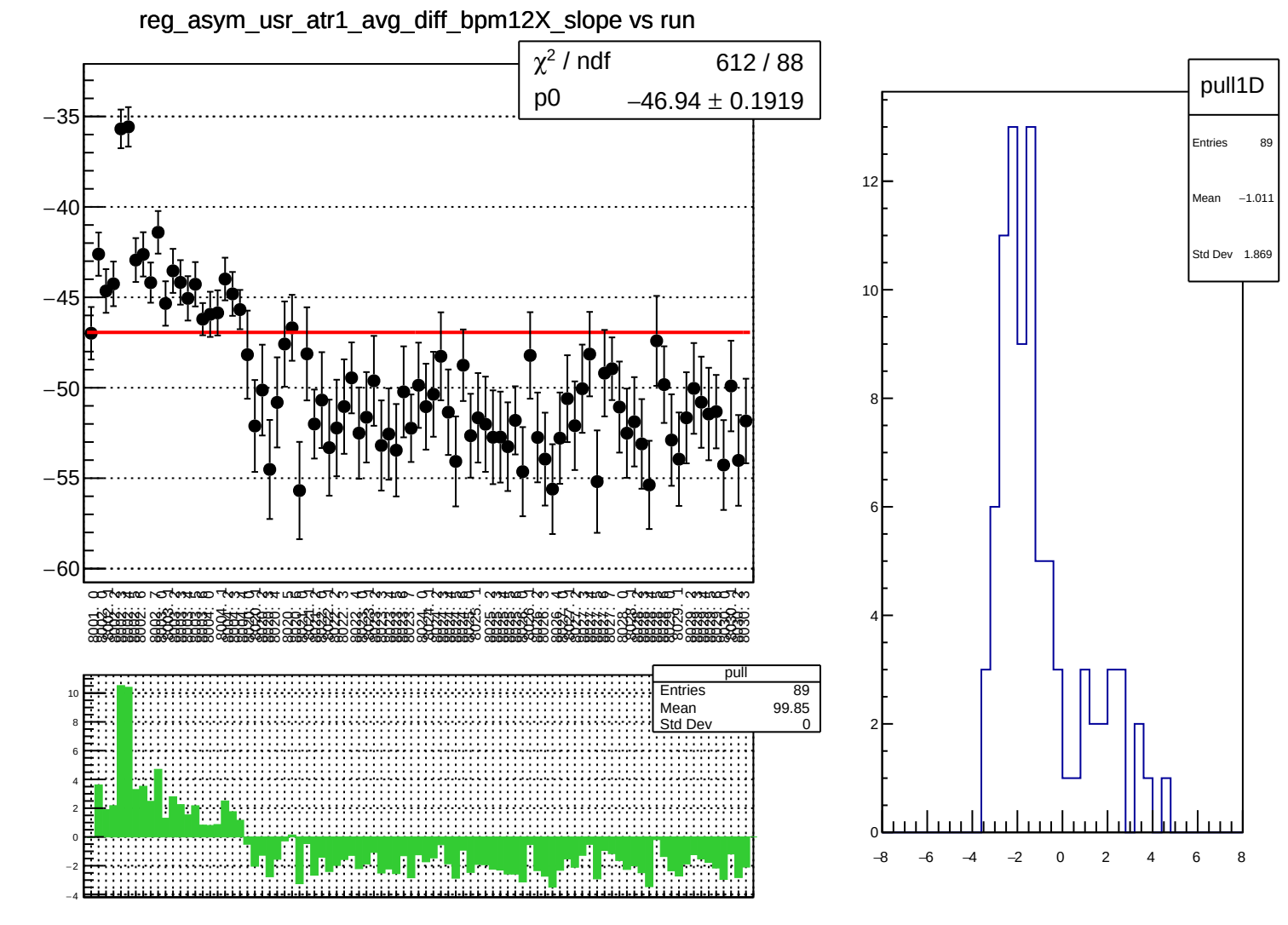

reg_asym_usr_atr1_avg_diff_bpm4aY_slope vs run
χ² / ndf 46.14 / 88
p0 12.67 ± 4.033
100
50
0
−50
−100
pull
Entries 89
Mean −184.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

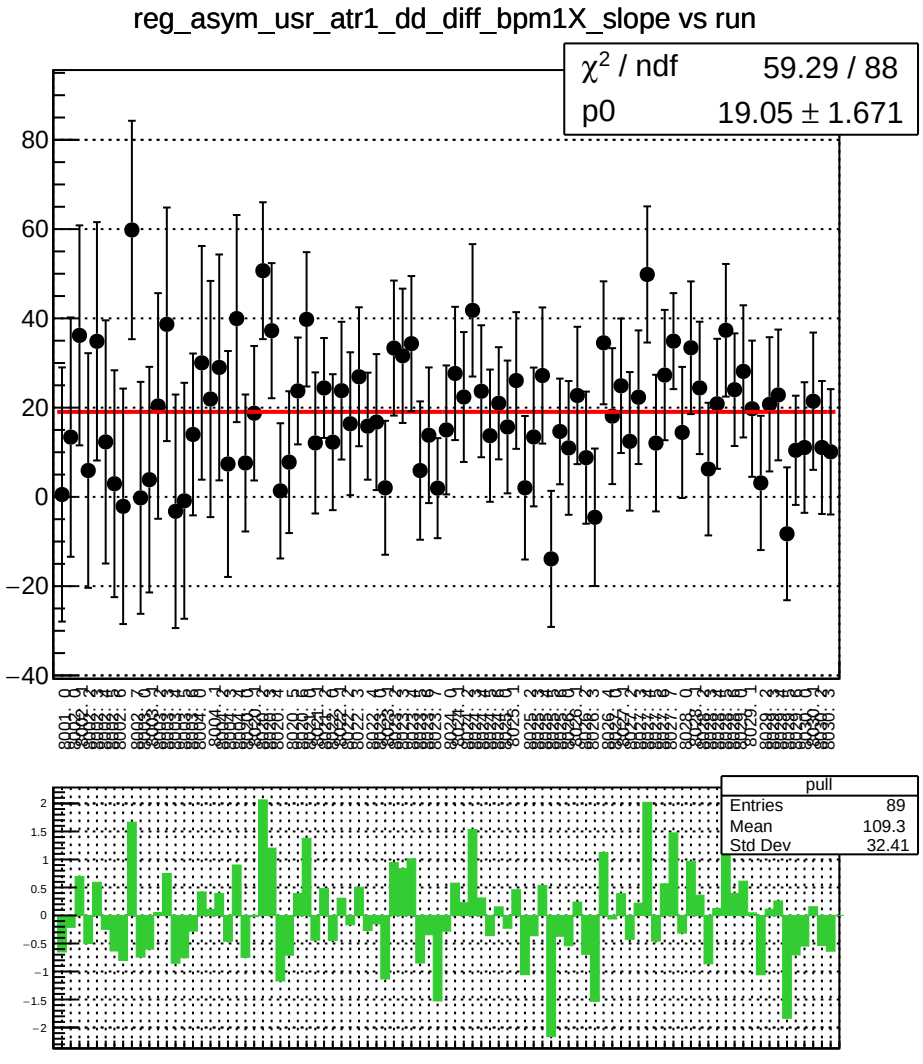

pull1D
Entries 89
Mean −0.006631
Std Dev 0.72
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

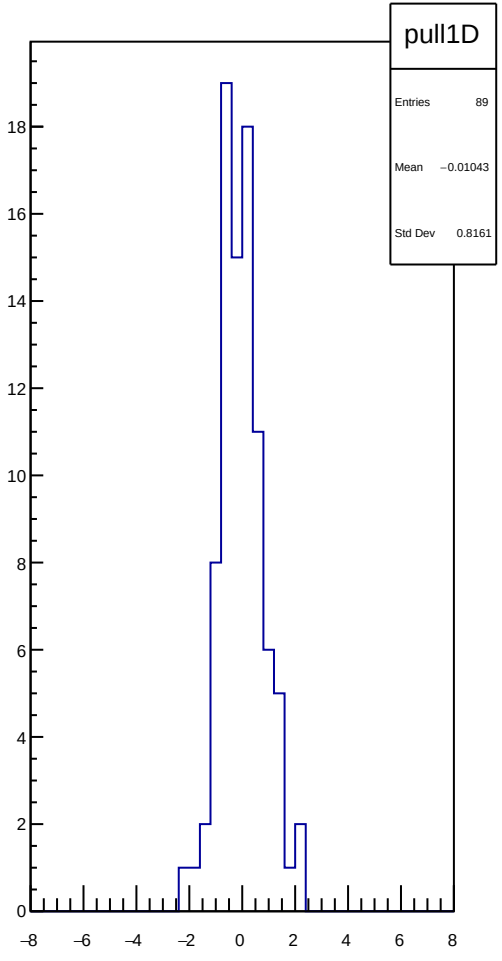

reg_asym_usr_atr1_avg_diff_bpm4eX_slope vs run
χ² / ndf 60.44 / 88
p0 78.66 ± 2.692
pull
Entries 89
Mean −109.6
Std Dev 0
pull1D
Entries 89
Mean −0.06352
Std Dev 0.8217

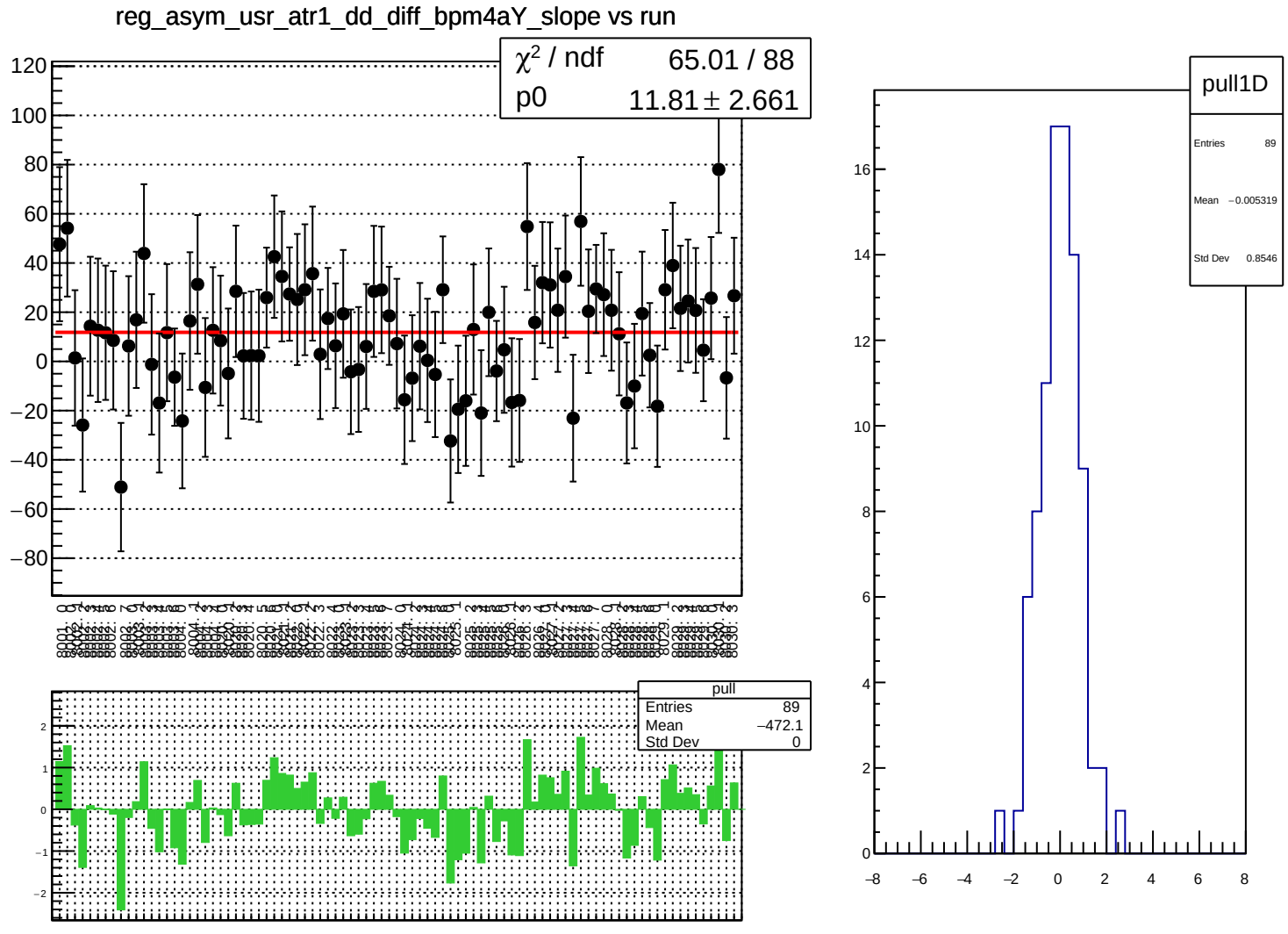

reg_asym_usr_atr1_avg_diff_bpm4eY_slope vs run
χ² / ndf 46.46 / 88
p0 −2.748 ± 4.34
100
50
0
−50
−100
pull
Entries 89
Mean −159.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

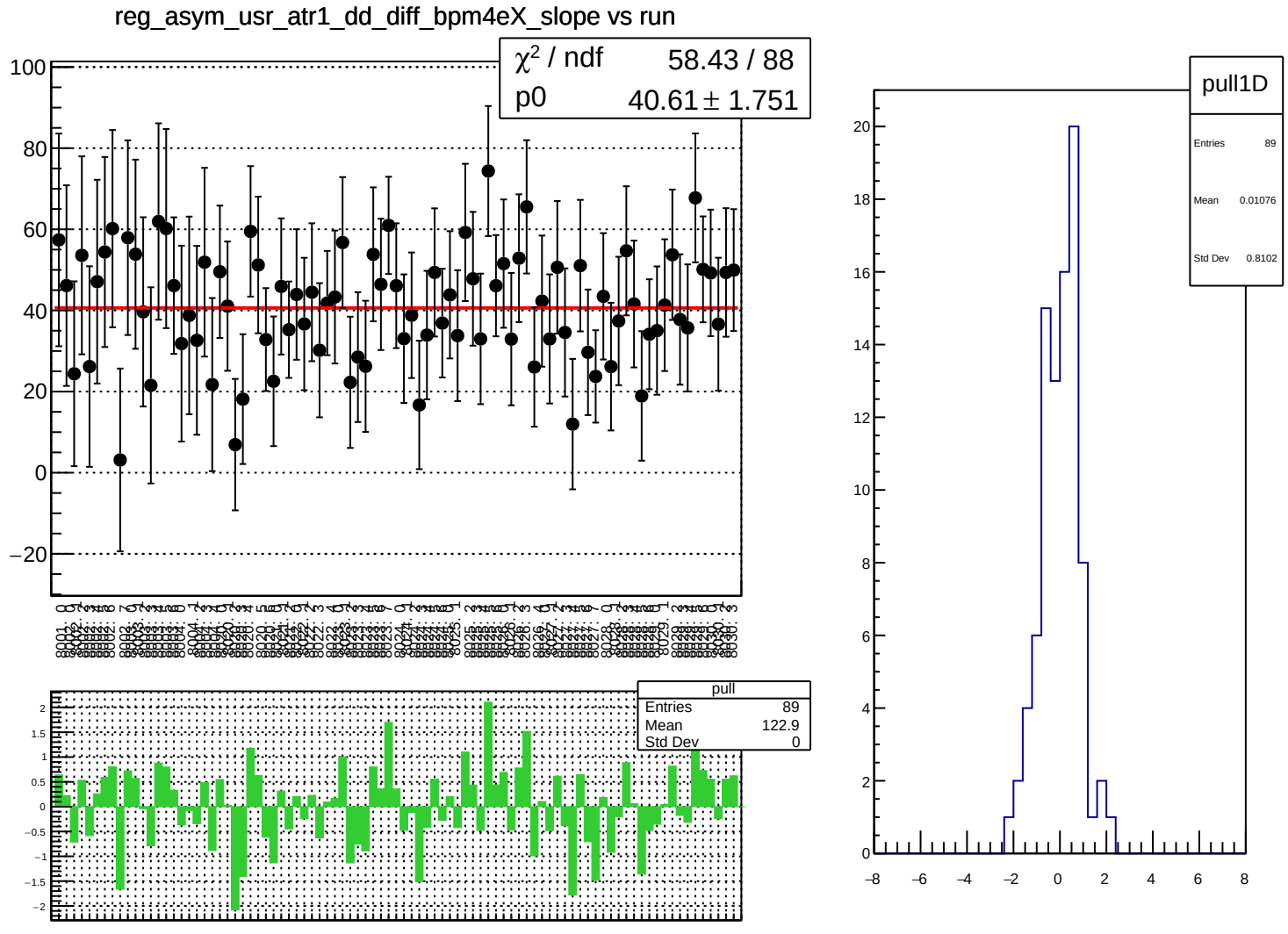

pull1D
Entries 89
Mean 0.007711
Std Dev 0.7225
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

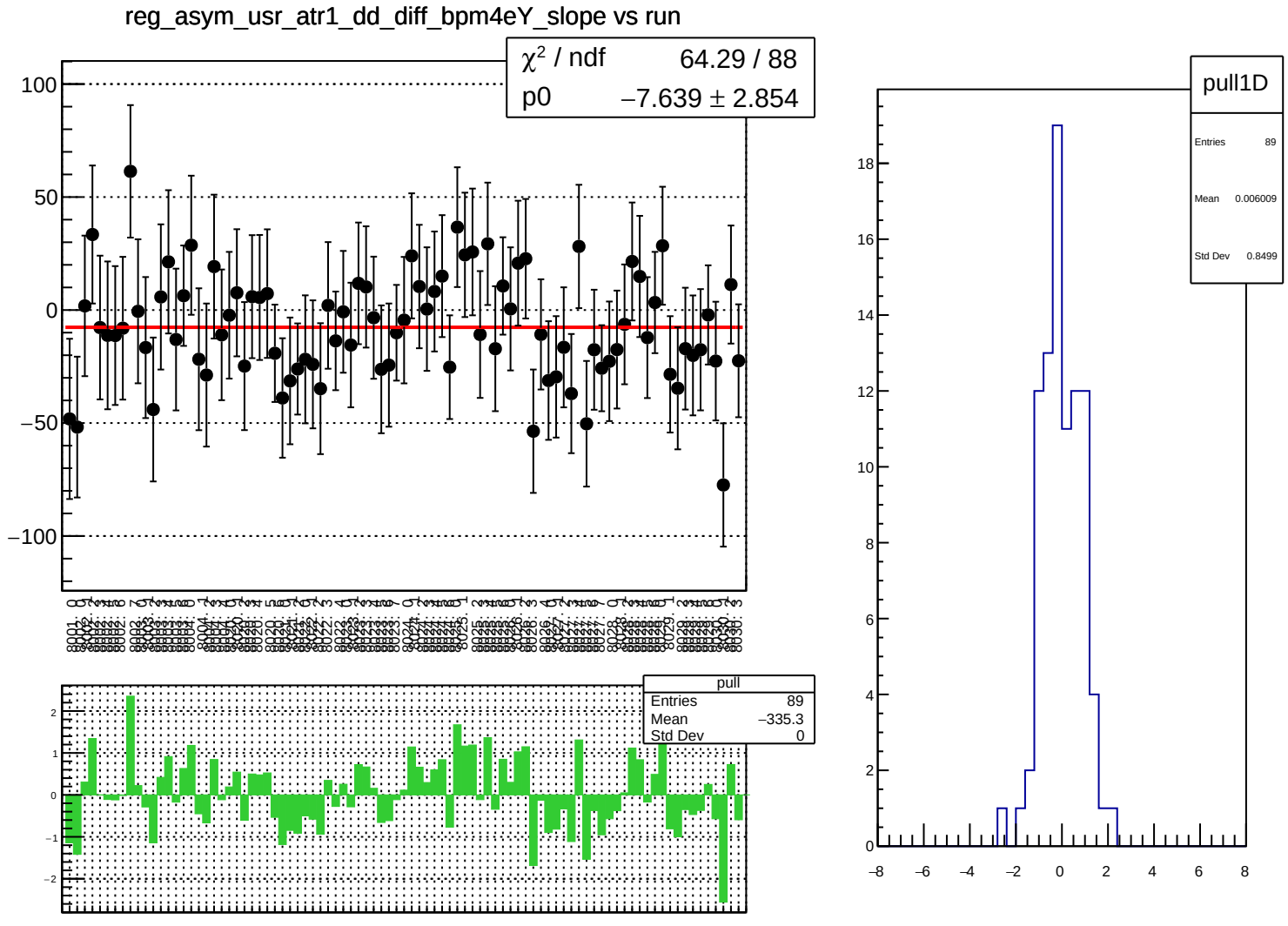

reg_asym_usr_atr1_avg_diff_bpm12X_slope vs run
χ² / ndf 612 / 88
p0 −46.94 ± 0.1919
pull
Entries 89
Mean 99.85
Std Dev 0
pull1D
Entries 89
Mean −1.011
Std Dev 1.869

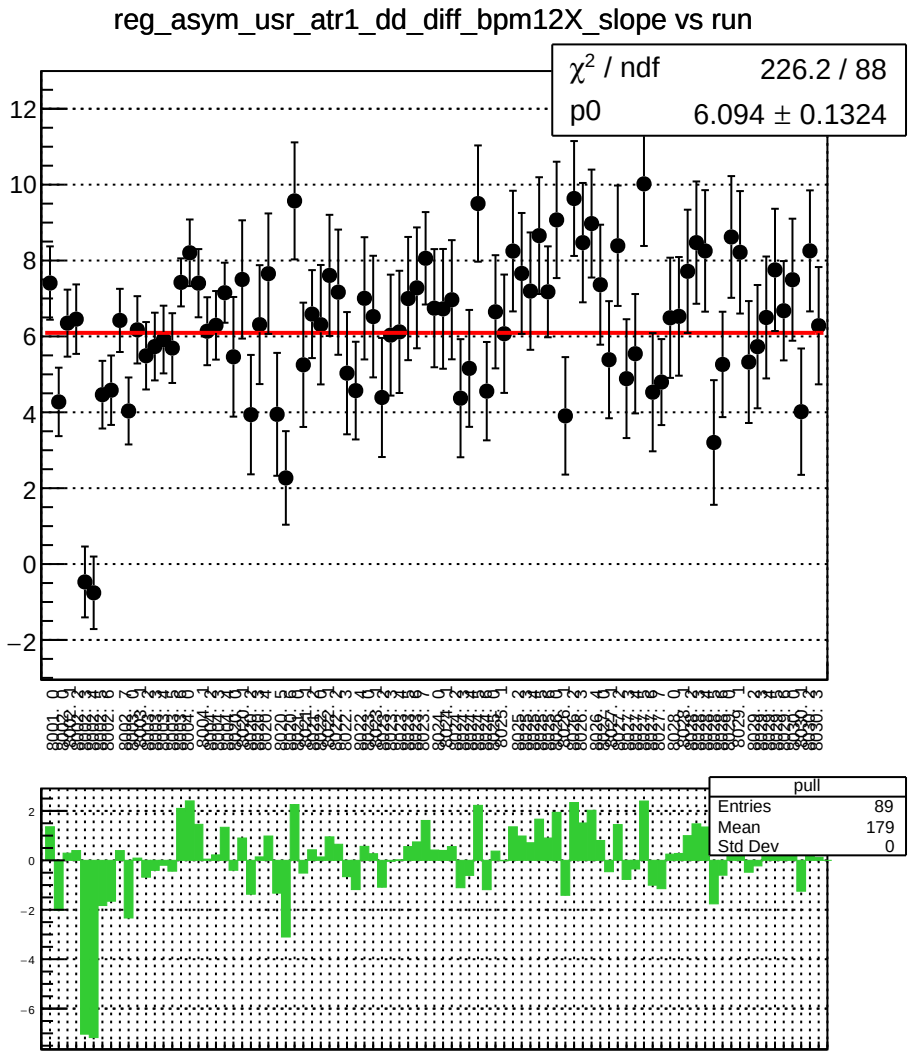

reg_asym_usr_atr1_dd_diff_bpm1X_slope vs run
χ² / ndf 59.29 / 88
p0 19.05 ± 1.671
pull
Entries 89
Mean 109.3
Std Dev 32.41

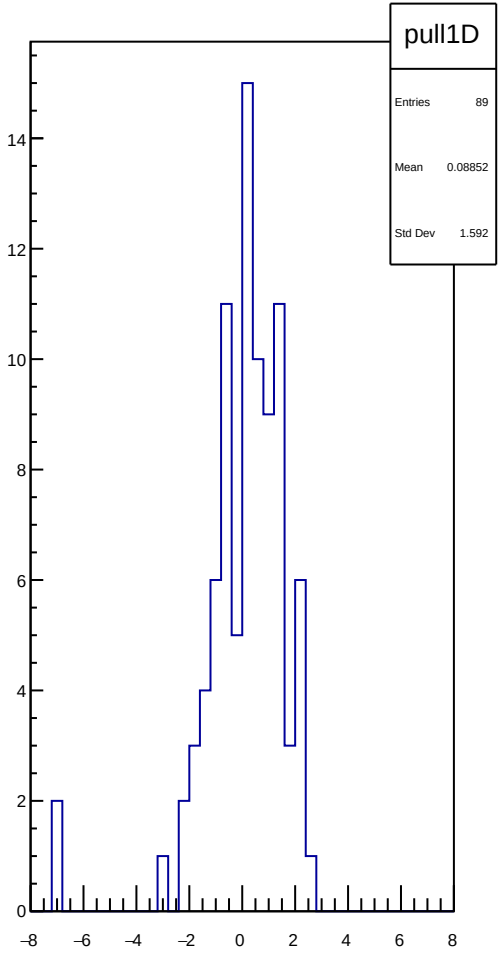

pull1D
Entries 89
Mean −0.01043
Std Dev 0.8161

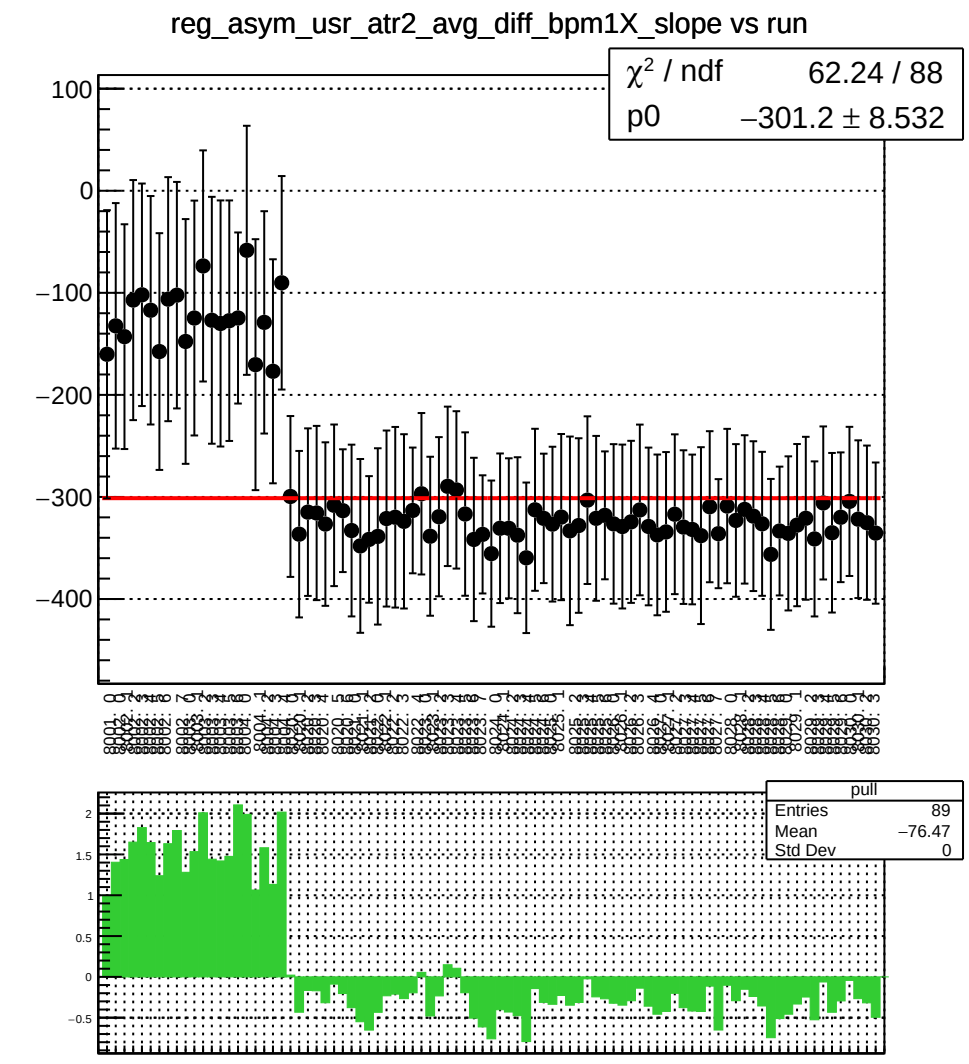

reg_asym_usr_atr1_dd_diff_bpm4aY_slope vs run
χ² / ndf 65.01 / 88
p0 11.81 ± 2.661
pull
Entries 89
Mean −472.1
Std Dev 0
pull1D
Entries 89
Mean −0.005319
Std Dev 0.8546

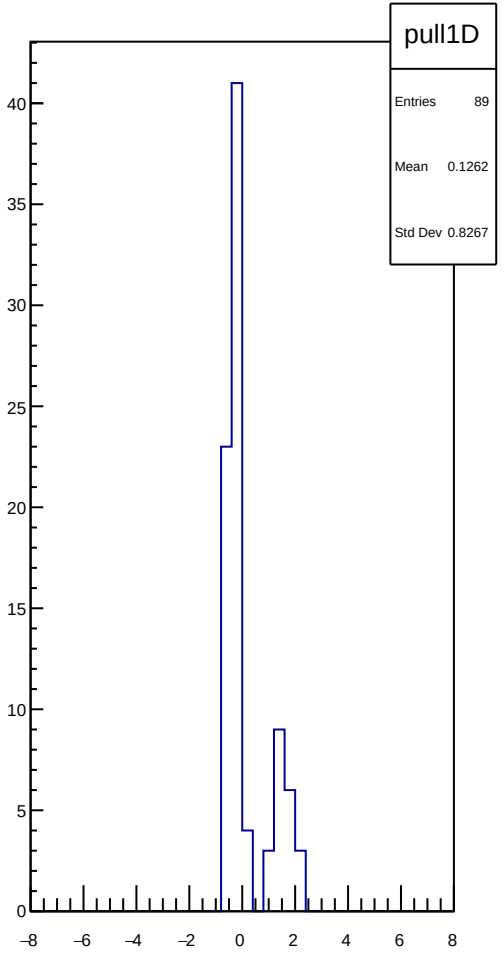

reg_asym_usr_atr1_dd_diff_bpm4eX_slope vs run
χ² / ndf 58.43 / 88
p0 40.61 ± 1.751
pull
Entries 89
Mean 122.9
Std Dev 0
pull1D
Entries 89
Mean 0.01076
Std Dev 0.8102

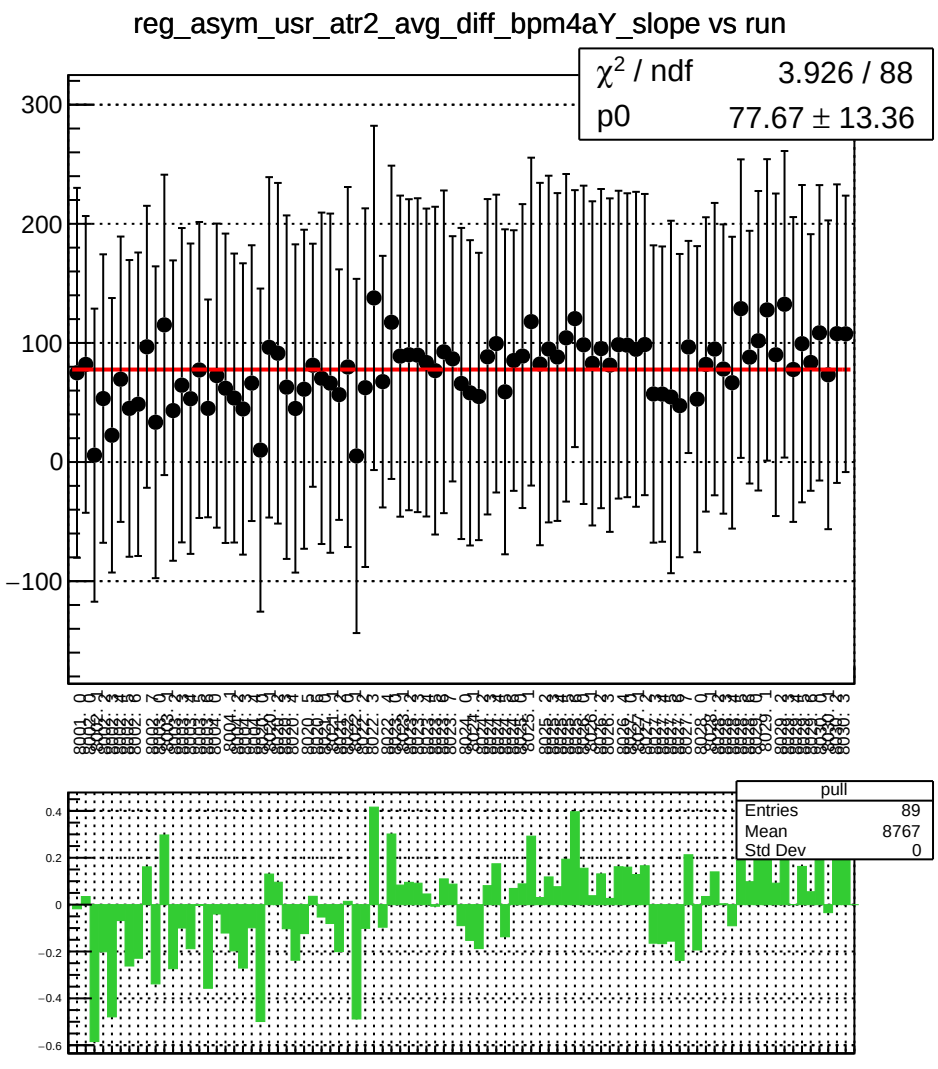

reg_asym_usr_atr1_dd_diff_bpm4eY_slope vs run
χ² / ndf 64.29 / 88
p0 −7.639 ± 2.854
100
50
0
−50
−100
pull
Entries 89
Mean −335.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.006009
Std Dev 0.8499
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

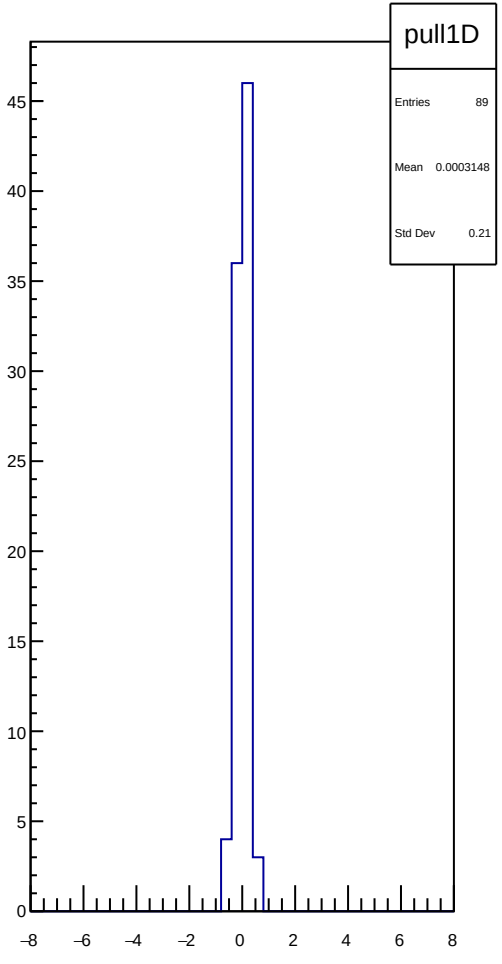

reg_asym_usr_atr1_dd_diff_bpm12X_slope vs run
χ² / ndf 226.2 / 88
p0 6.094 ± 0.1324
pull
Entries 89
Mean 179
Std Dev 0

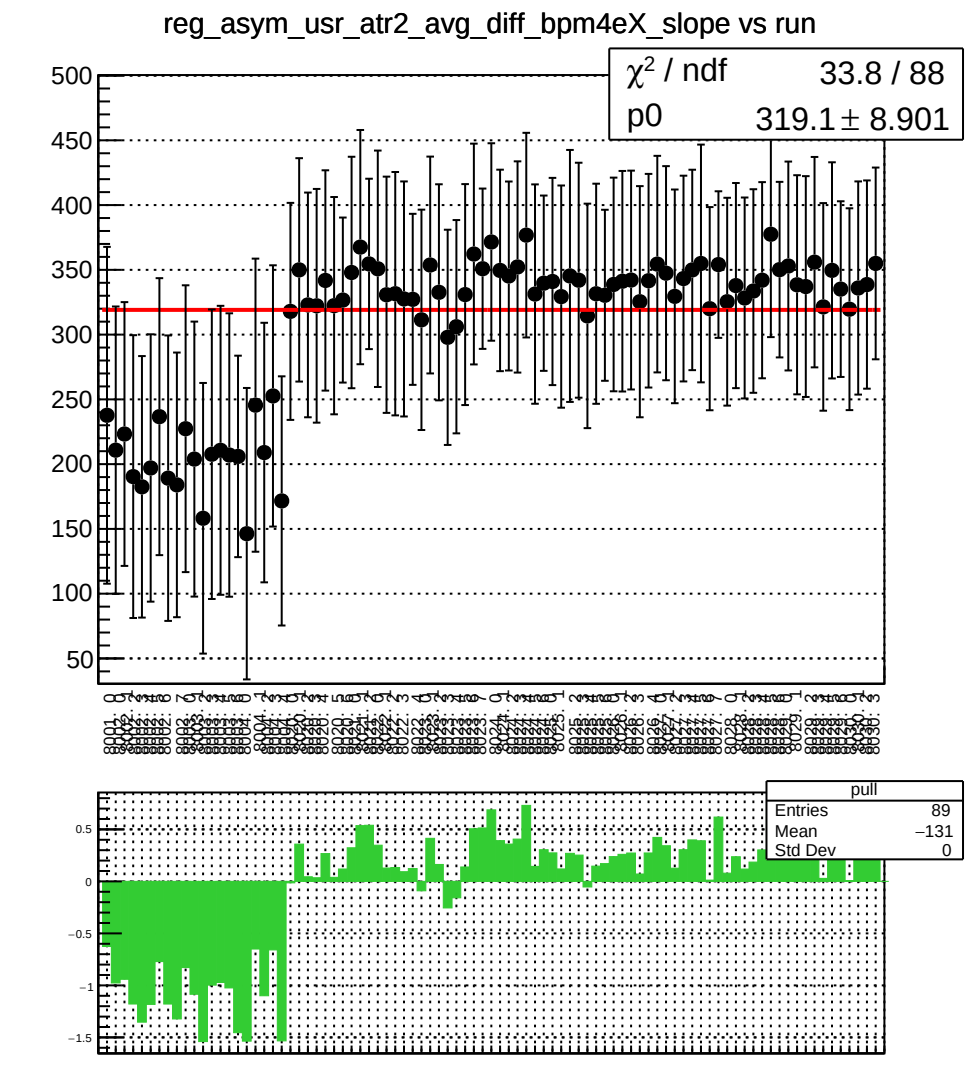

pull1D
Entries 89
Mean 0.08852
Std Dev 1.592

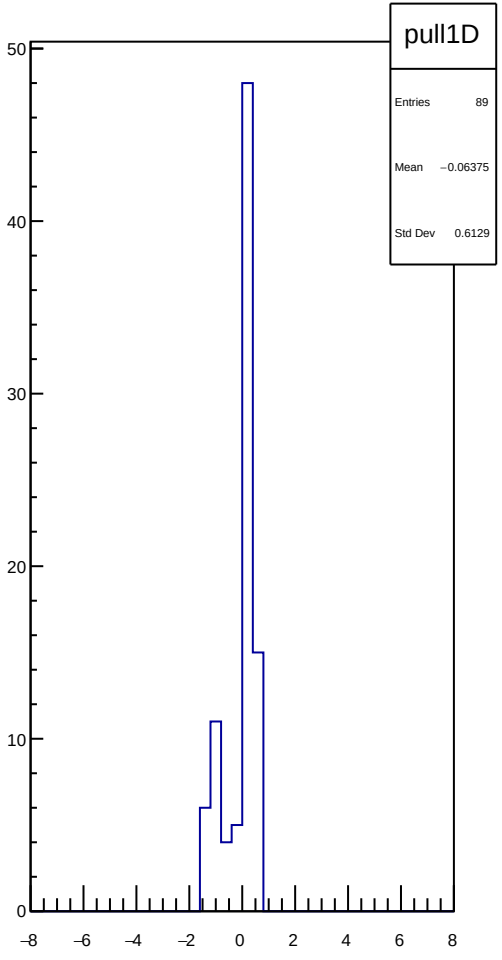

reg_asym_usr_atr2_avg_diff_bpm1X_slope vs run
χ² / ndf 62.24 / 88
p0 −301.2 ± 8.532
100
0
−100
−200
−300
−400
pull
Entries 89
Mean −76.47
Std Dev 0
2
1.5
1
0.5
0
−0.5

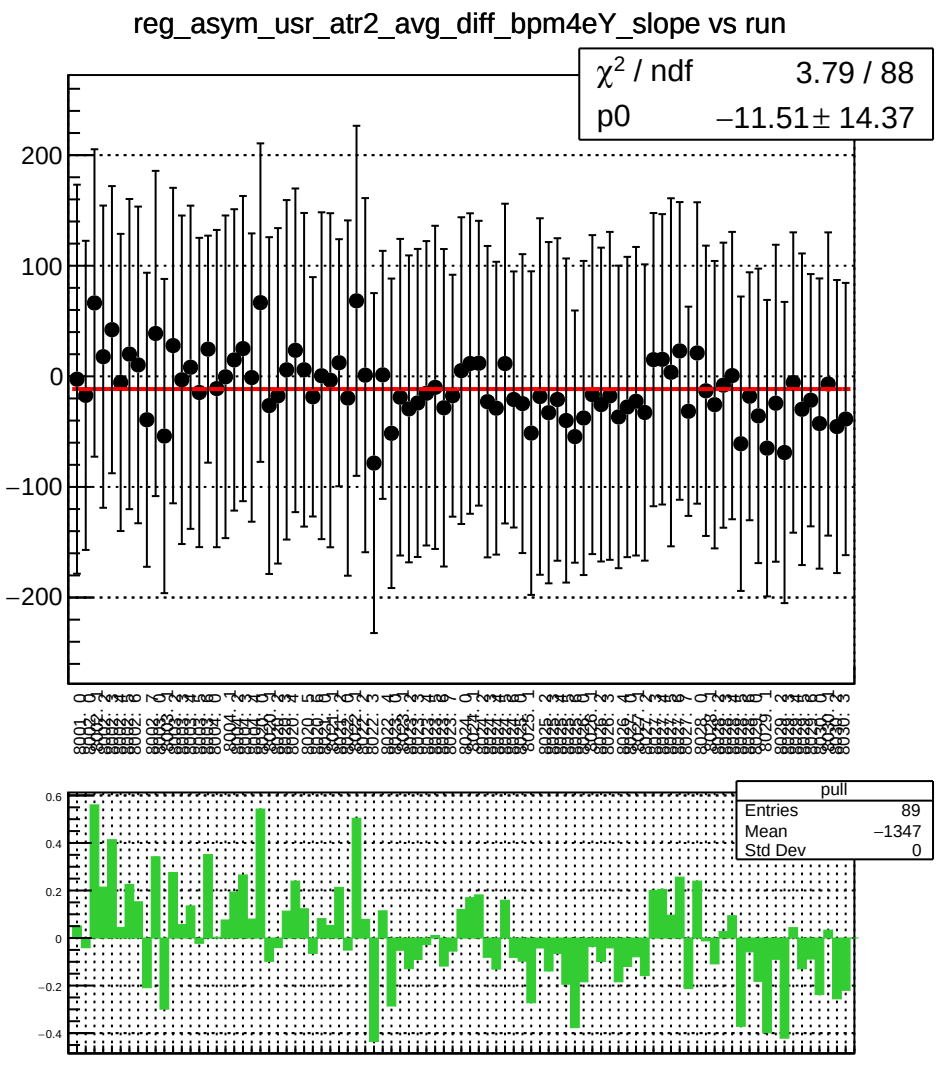

pull1D
Entries 89
Mean 0.1262
Std Dev 0.8267
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

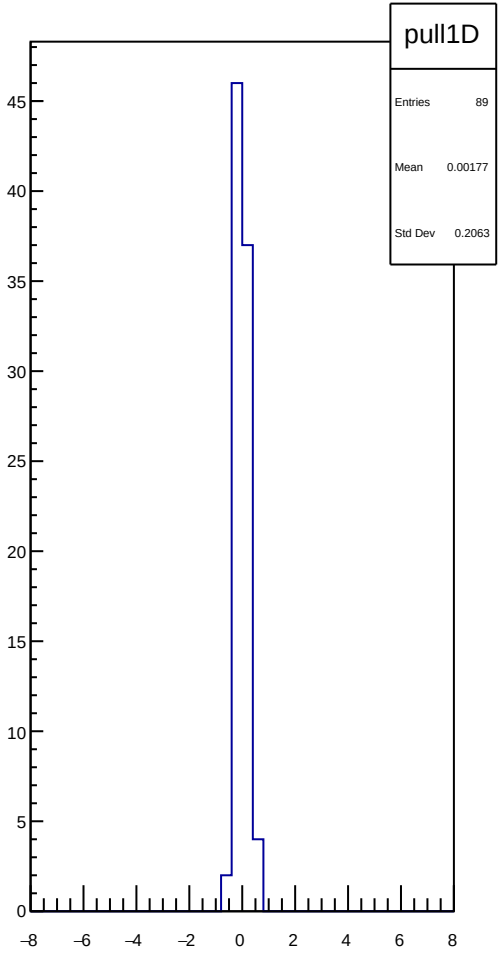

reg_asym_usr_atr2_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.926 / 88
p0 77.67 ± 13.36
300
200
100
0
−100
pull
Entries 89
Mean 8767
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6

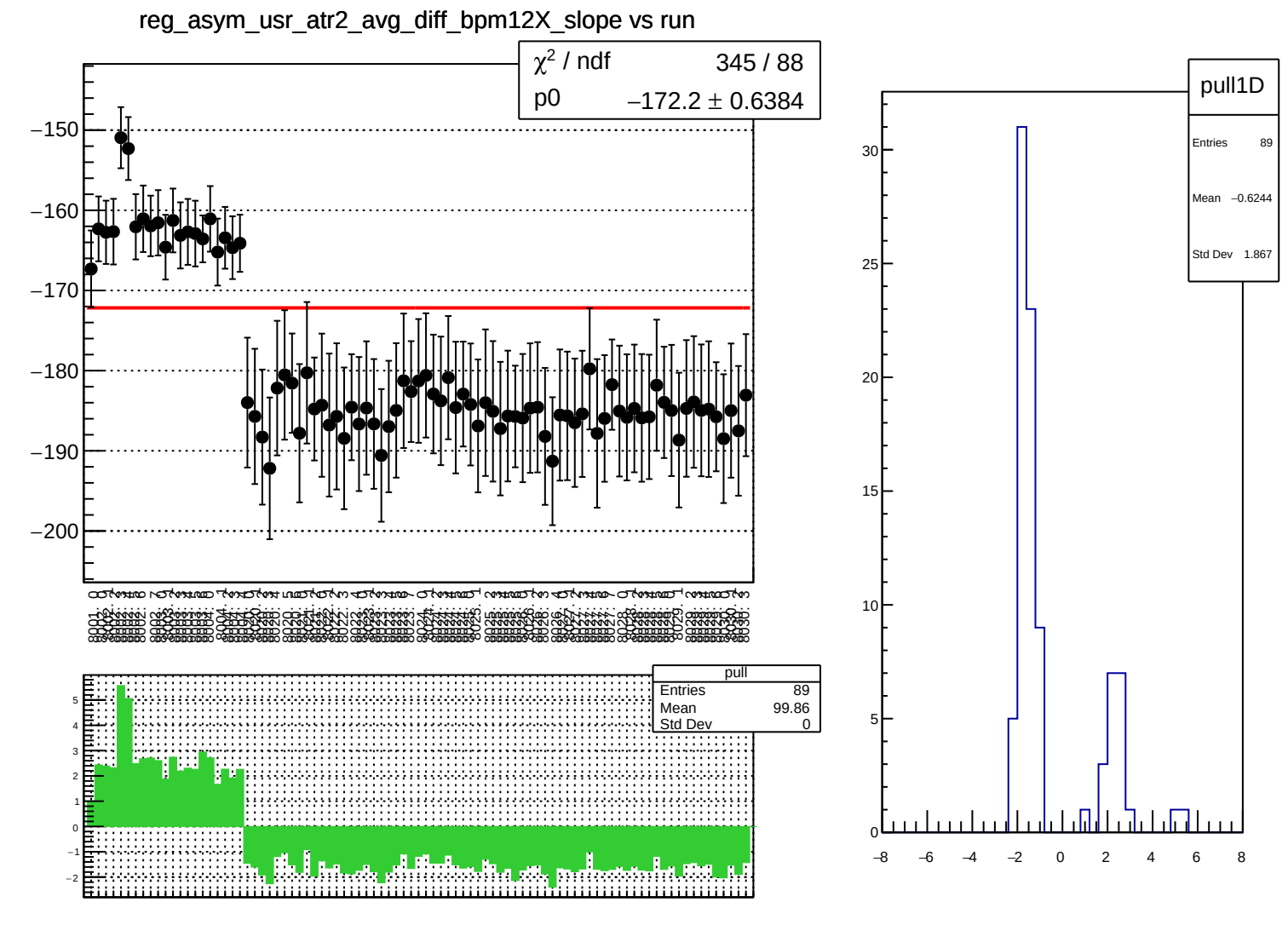

pull1D
Entries 89
Mean 0.0003148
Std Dev 0.21
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

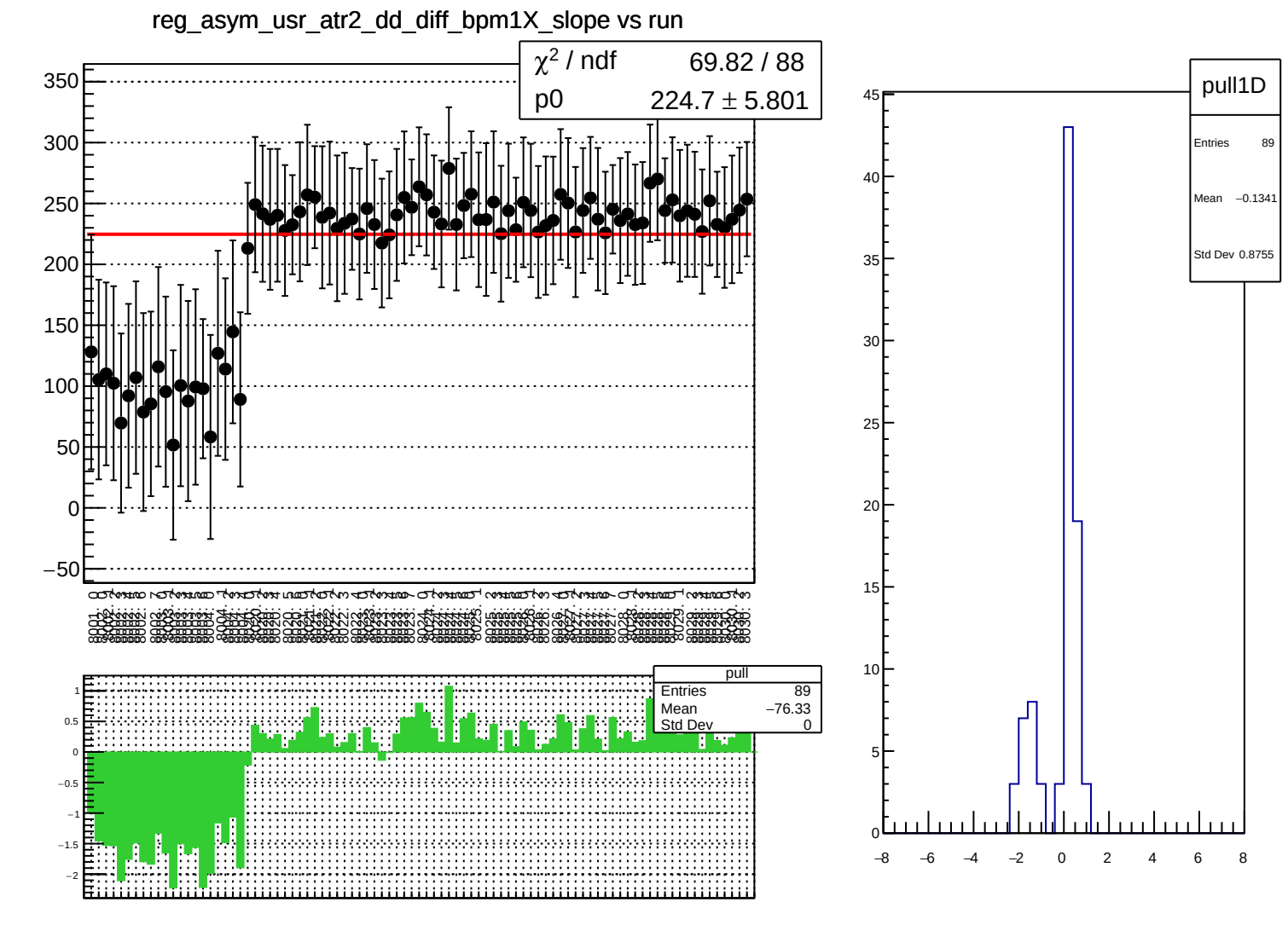

reg_asym_usr_atr2_avg_diff_bpm4eX_slope vs run
χ² / ndf 33.8 / 88
p0 319.1 ± 8.901
pull
Entries 89
Mean −131
Std Dev 0

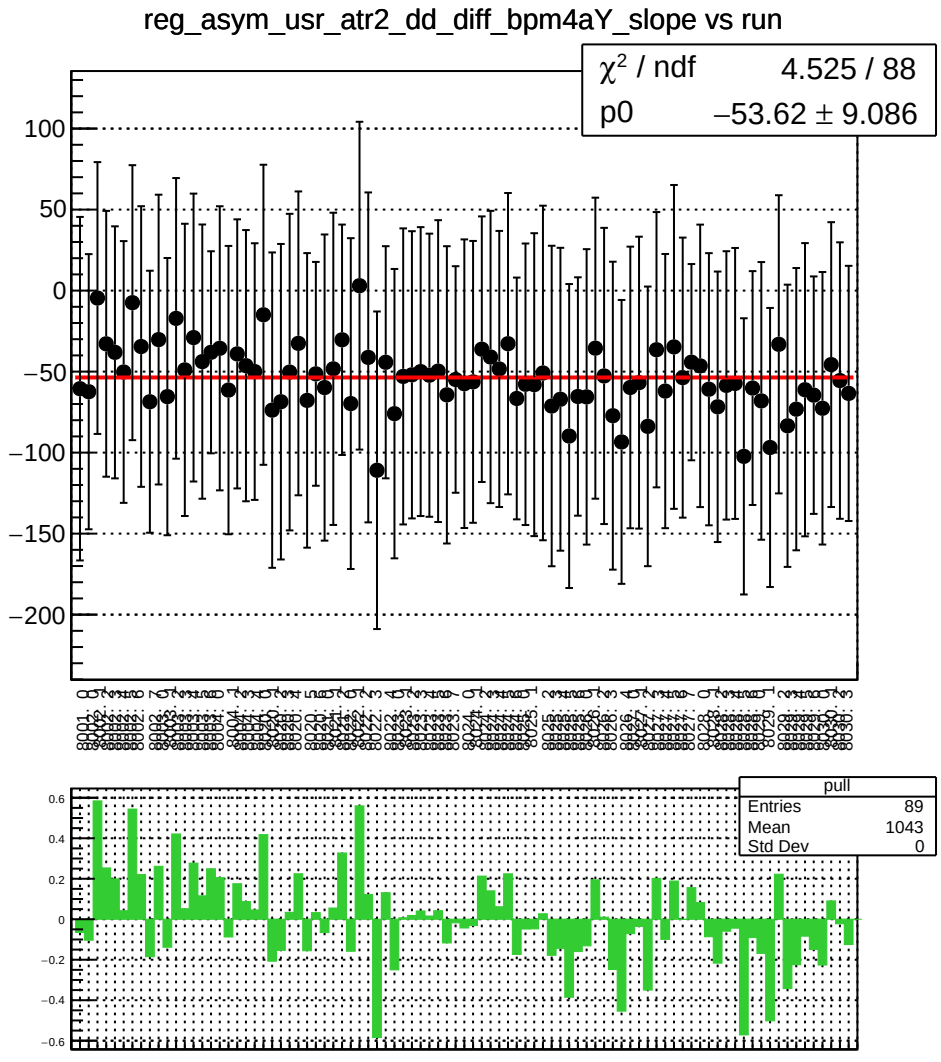

pull1D
Entries 89
Mean −0.06375
Std Dev 0.6129

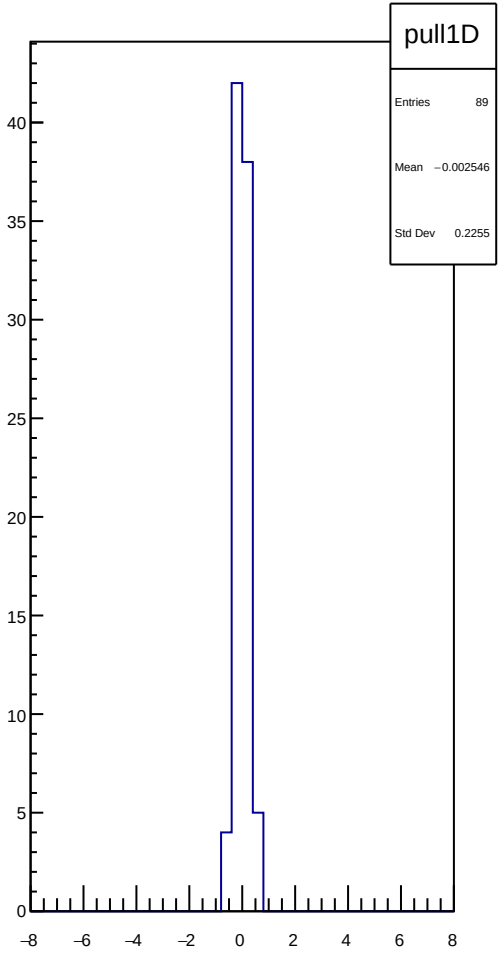

reg_asym_usr_atr2_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.79 / 88
p0 −11.51± 14.37
200
100
0
−100
−200
pull
Entries 89
Mean −1347
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4

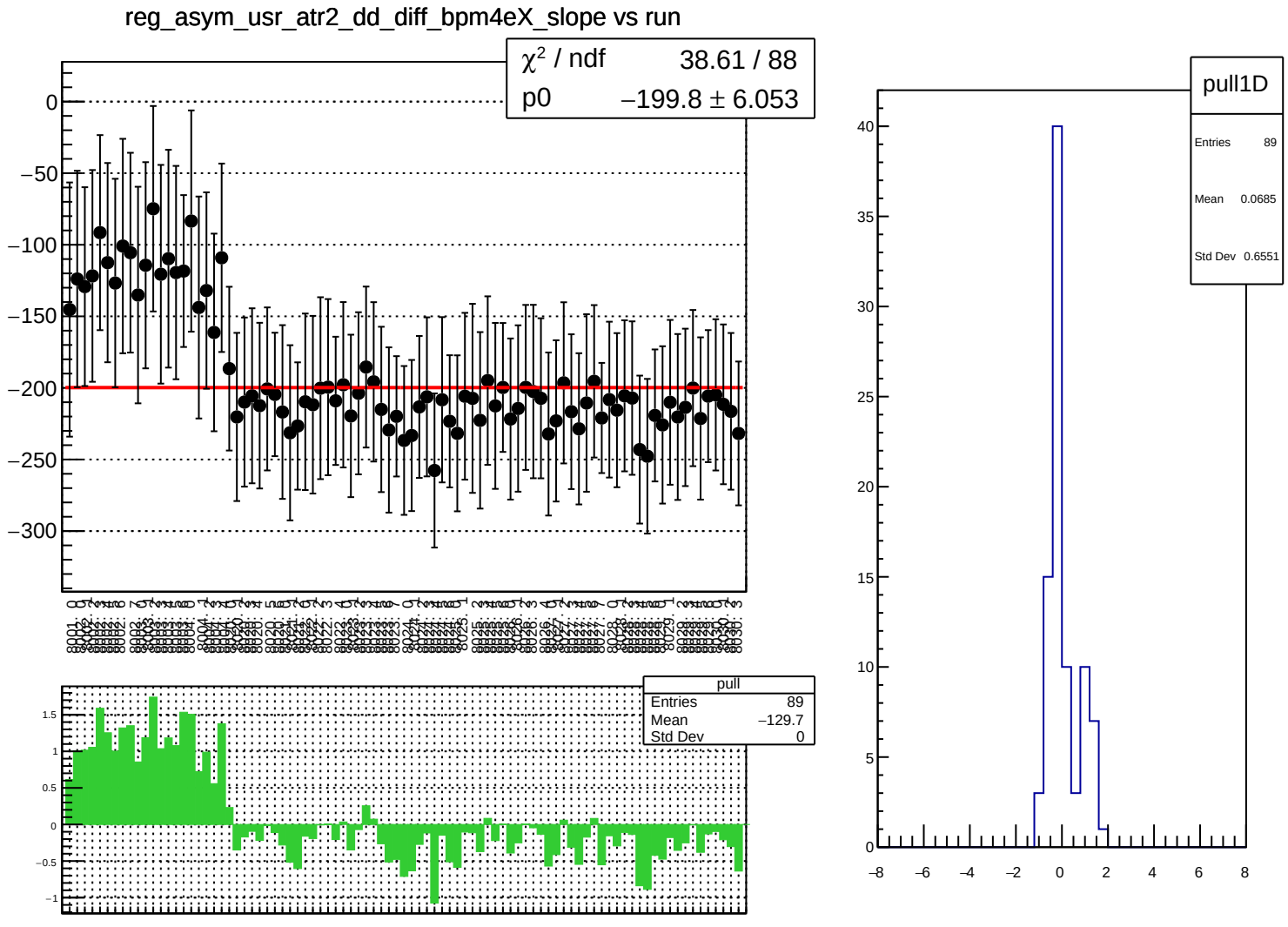

pull1D
Entries 89
Mean 0.00177
Std Dev 0.2063
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

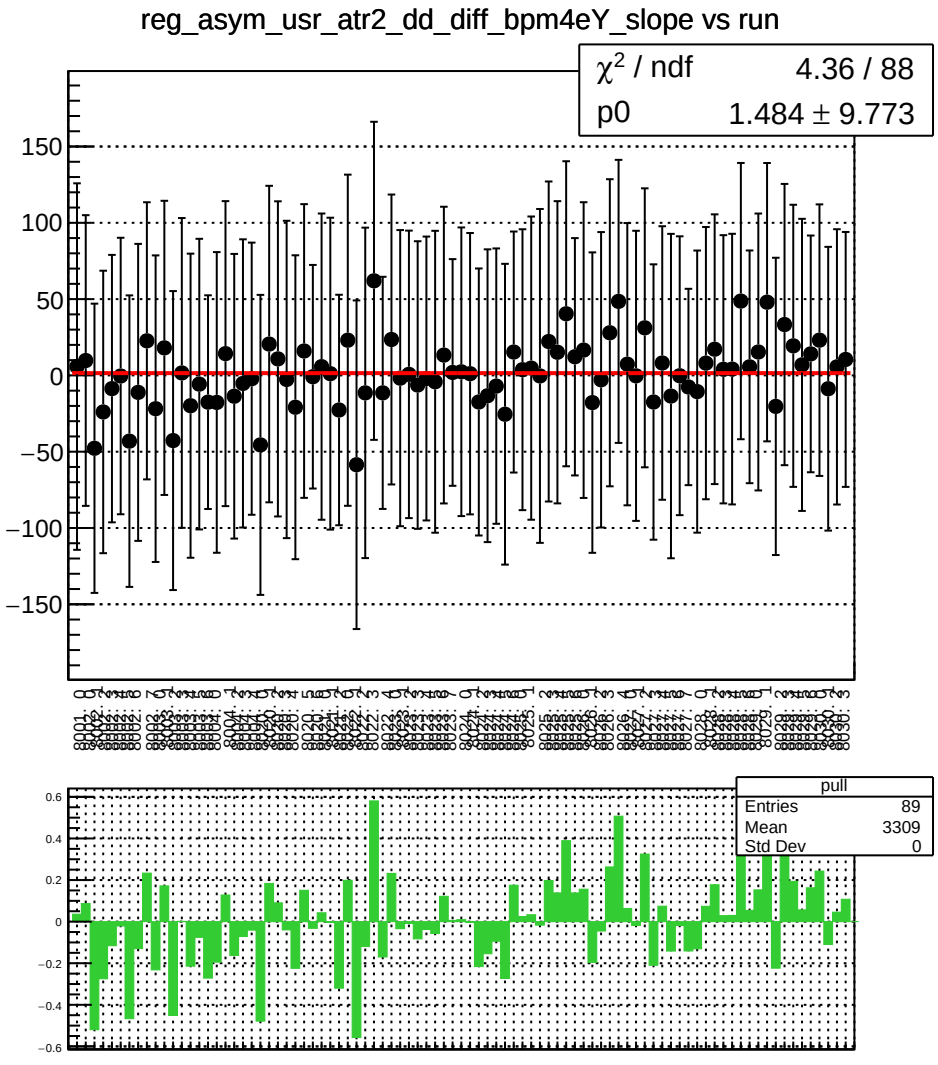

reg_asym_usr_atr2_avg_diff_bpm12X_slope vs run
χ² / ndf 345 / 88
p0 −172.2 ± 0.6384
−150
−160
−170
−180
−190
−200
pull
Entries 89
Mean 99.86
Std Dev 0
5
4
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.6244
Std Dev 1.867
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

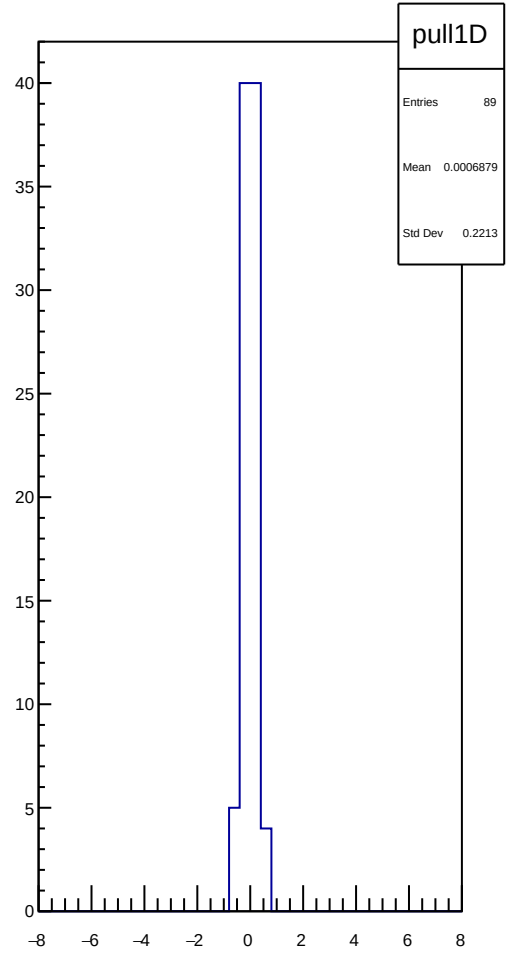

reg_asym_usr_atr2_dd_diff_bpm1X_slope vs run
χ² / ndf 69.82 / 88
p0 224.7 ± 5.801
pull
Entries 89
Mean −76.33
Std Dev 0
pull1D
Entries 89
Mean −0.1341
Std Dev 0.8755

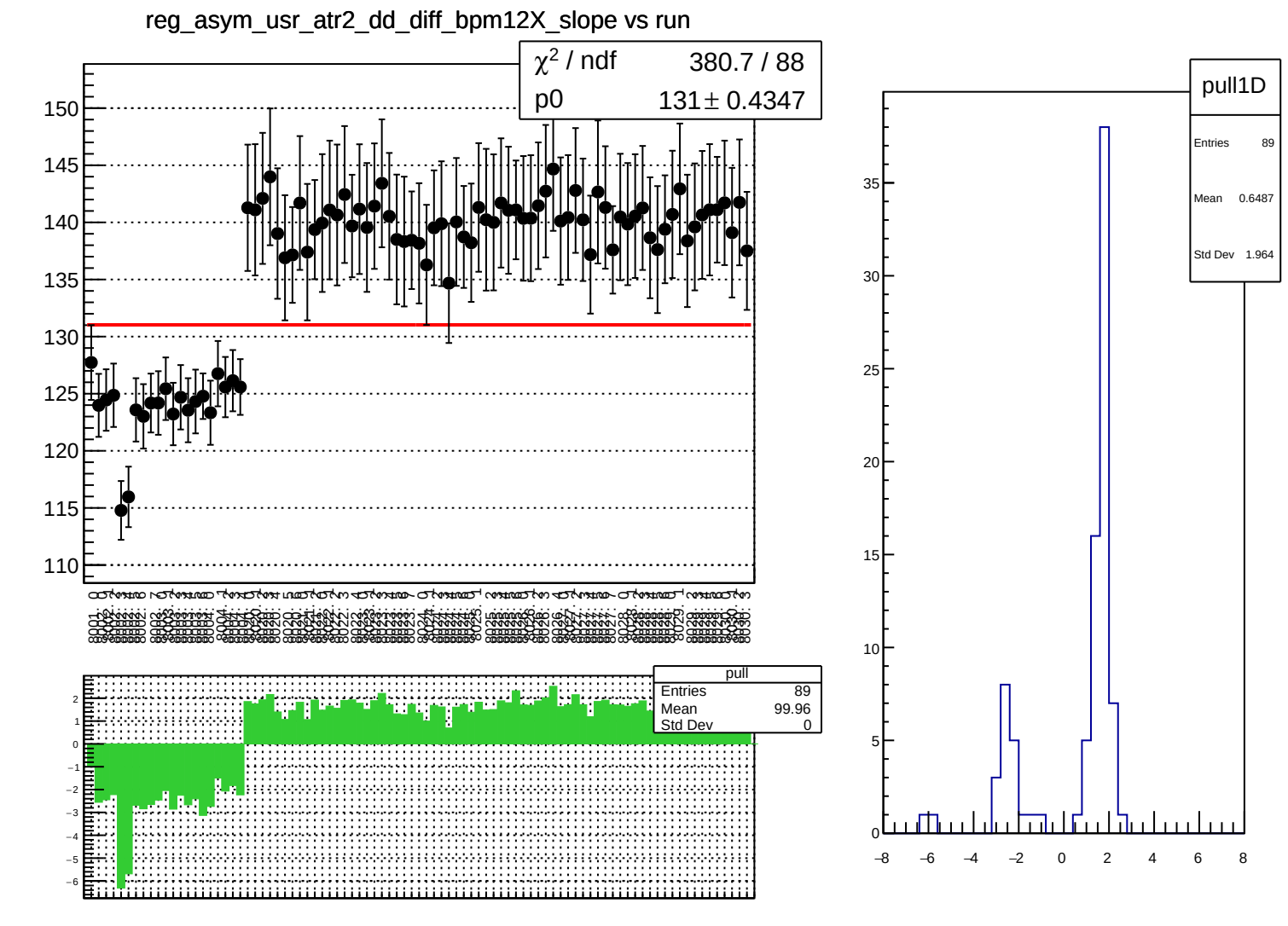

reg_asym_usr_atr2_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.525 / 88
p0 −53.62 ± 9.086
pull
Entries 89
Mean 1043
Std Dev 0

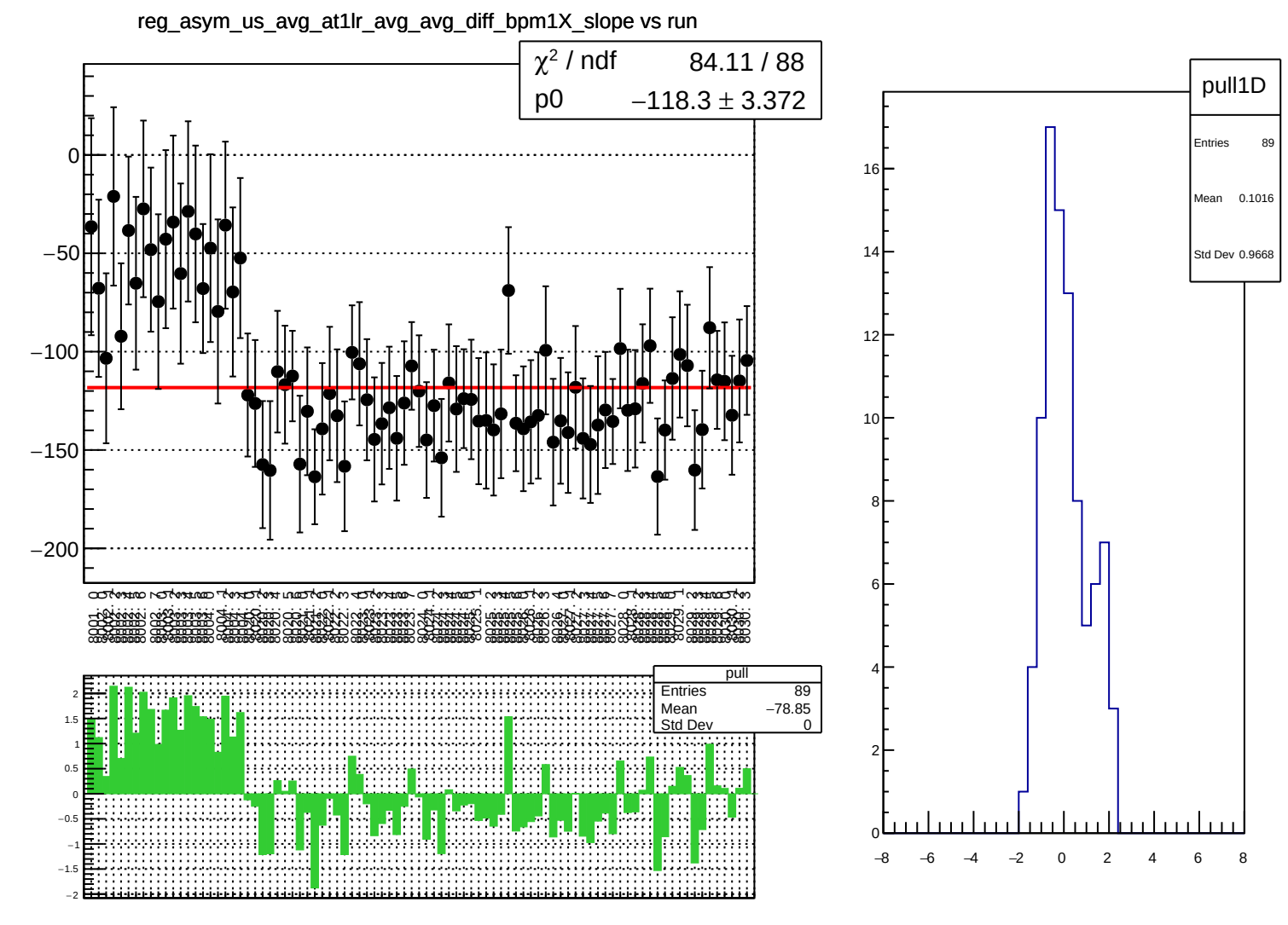

pull1D
Entries 89
Mean −0.002546
Std Dev 0.2255

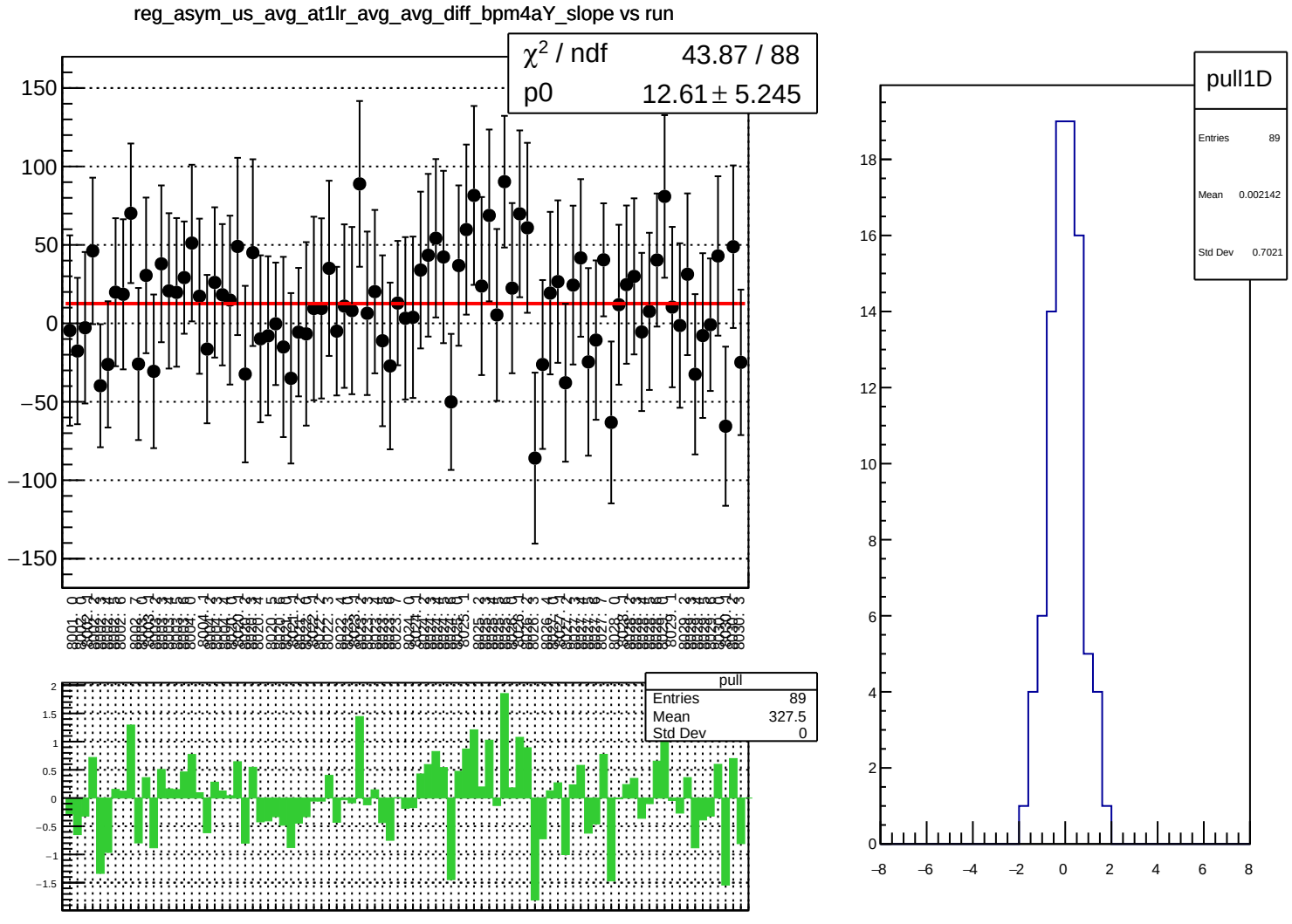

reg_asym_usr_atr2_dd_diff_bpm4eX_slope vs run
χ² / ndf 38.61 / 88
p0 −199.8 ± 6.053
0
−50
−100
−150
−200
−250
−300
pull
Entries 89
Mean −129.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 89
Mean 0.0685
Std Dev 0.6551
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

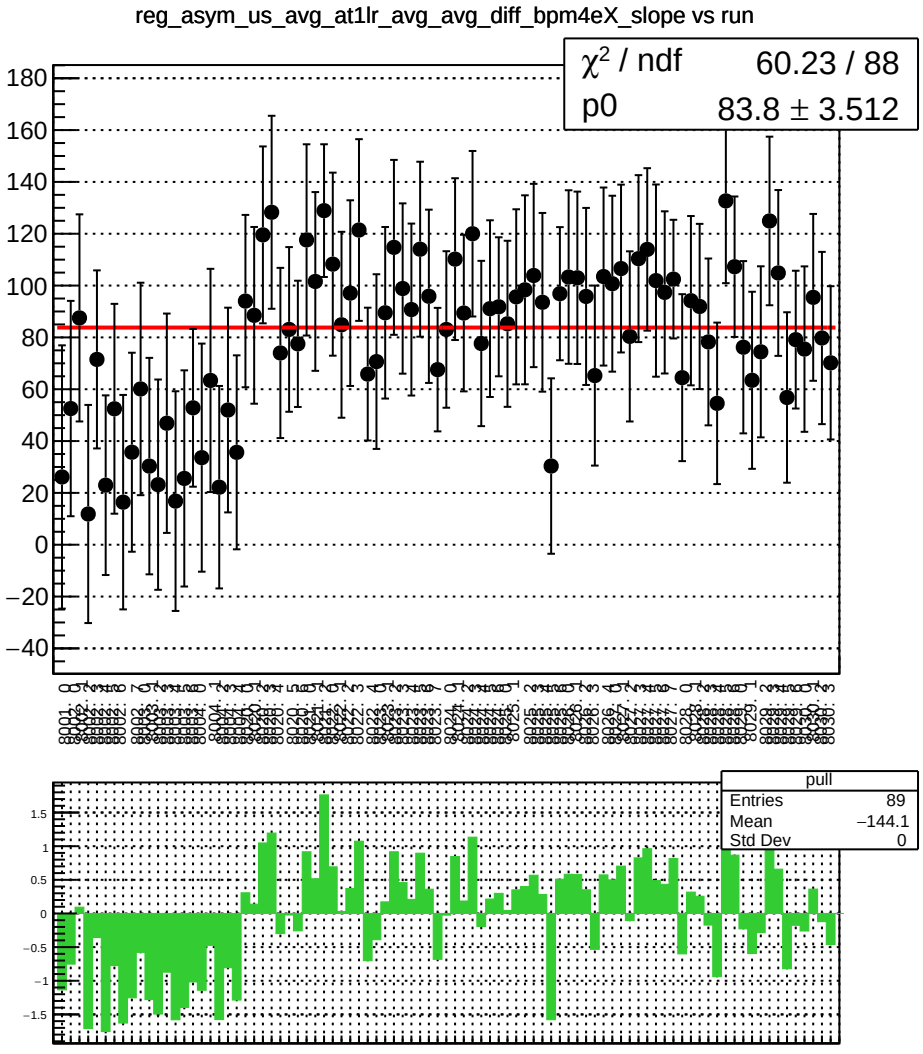

reg_asym_usr_atr2_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.36 / 88
p0 1.484 ± 9.773
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean 3309
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

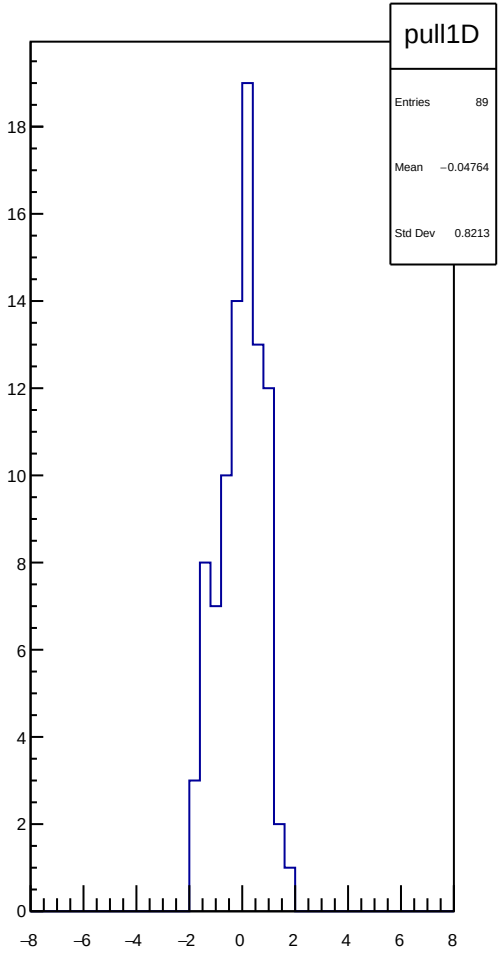

pull1D
Entries 89
Mean 0.0006879
Std Dev 0.2213
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

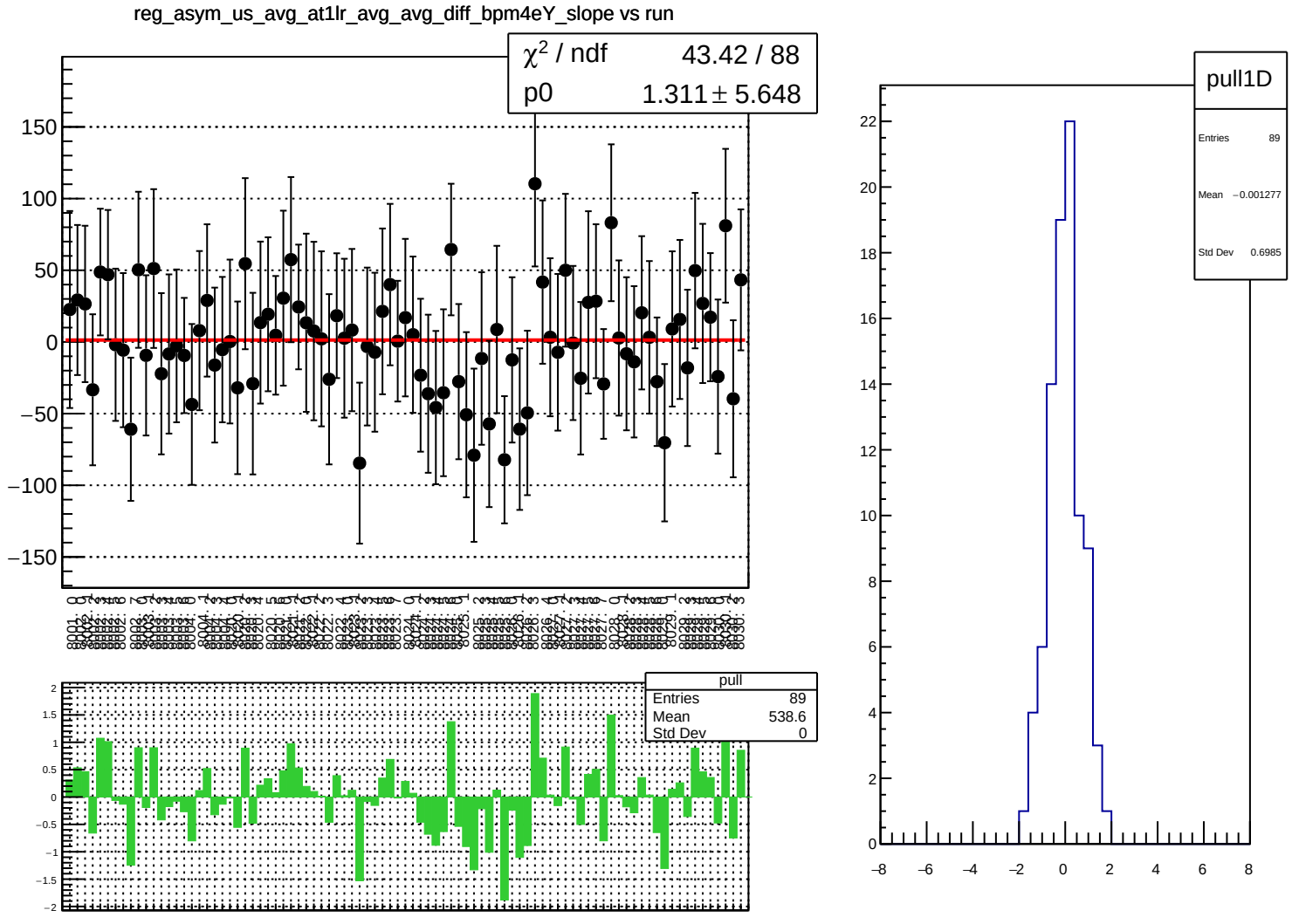

reg_asym_usr_atr2_dd_diff_bpm12X_slope vs run
χ² / ndf 380.7 / 88
p0 131 ± 0.4347
150
145
140
135
130
125
120
115
110
pull
Entries 89
Mean 99.96
Std Dev 0
2
1
0
−1
−2
−3
−4
−5
−6
pull1D
Entries 89
Mean 0.6487
Std Dev 1.964
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

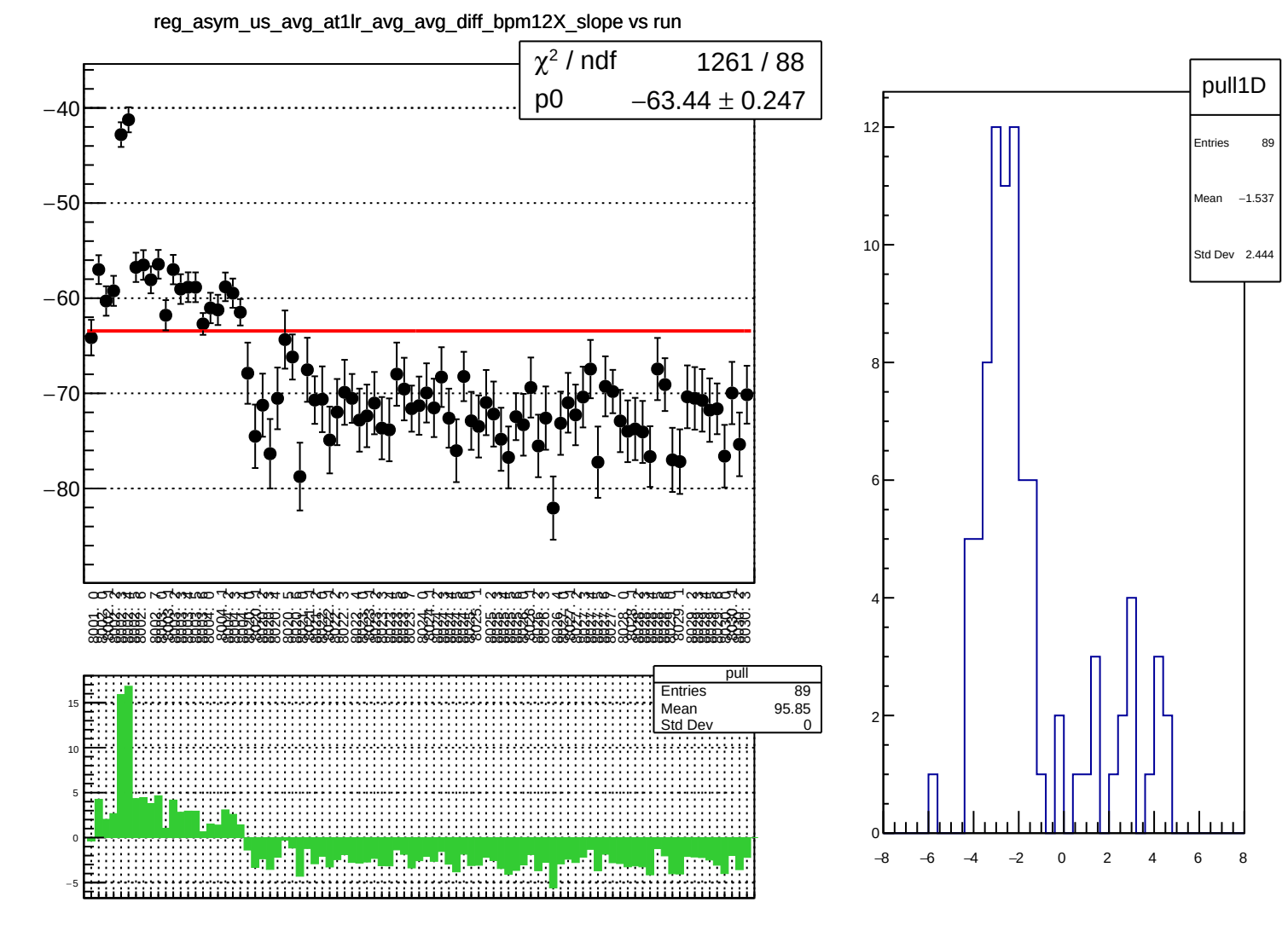

reg_asym_us_avg_at1lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 84.11 / 88
p0 −118.3 ± 3.372
pull
Entries 89
Mean −78.85
Std Dev 0
pull1D
Entries 89
Mean 0.1016
Std Dev 0.9668

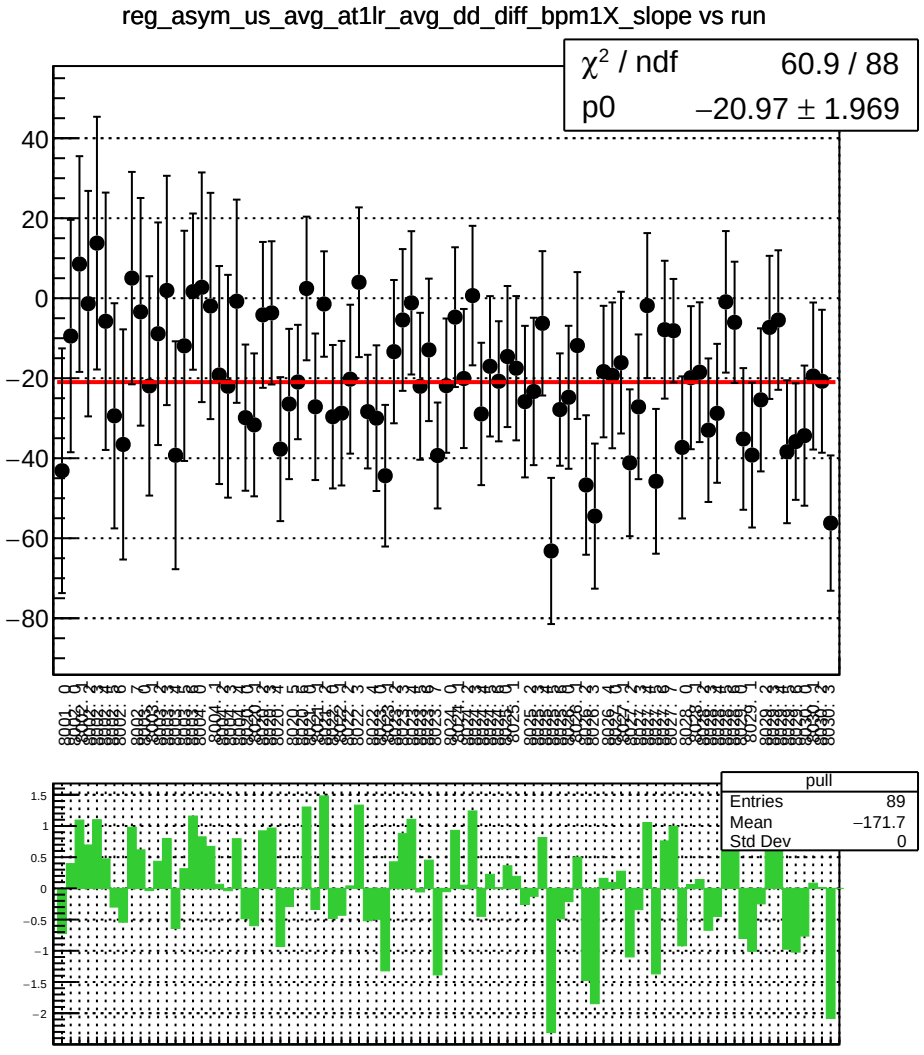

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 43.87 / 88
p0 12.61 ± 5.245
pull
Entries 89
Mean 327.5
Std Dev 0
pull1D
Entries 89
Mean 0.002142
Std Dev 0.7021

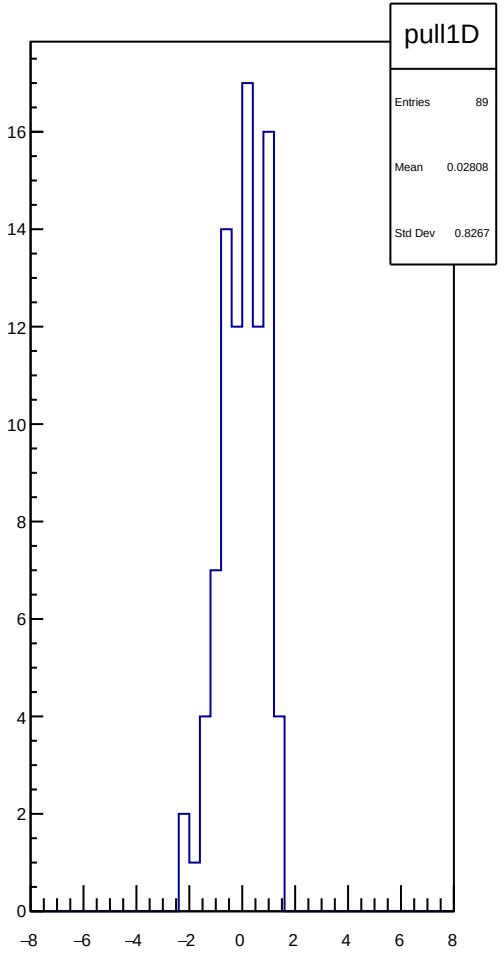

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 60.23 / 88
p0 83.8 ± 3.512
pull
Entries 89
Mean −144.1
Std Dev 0

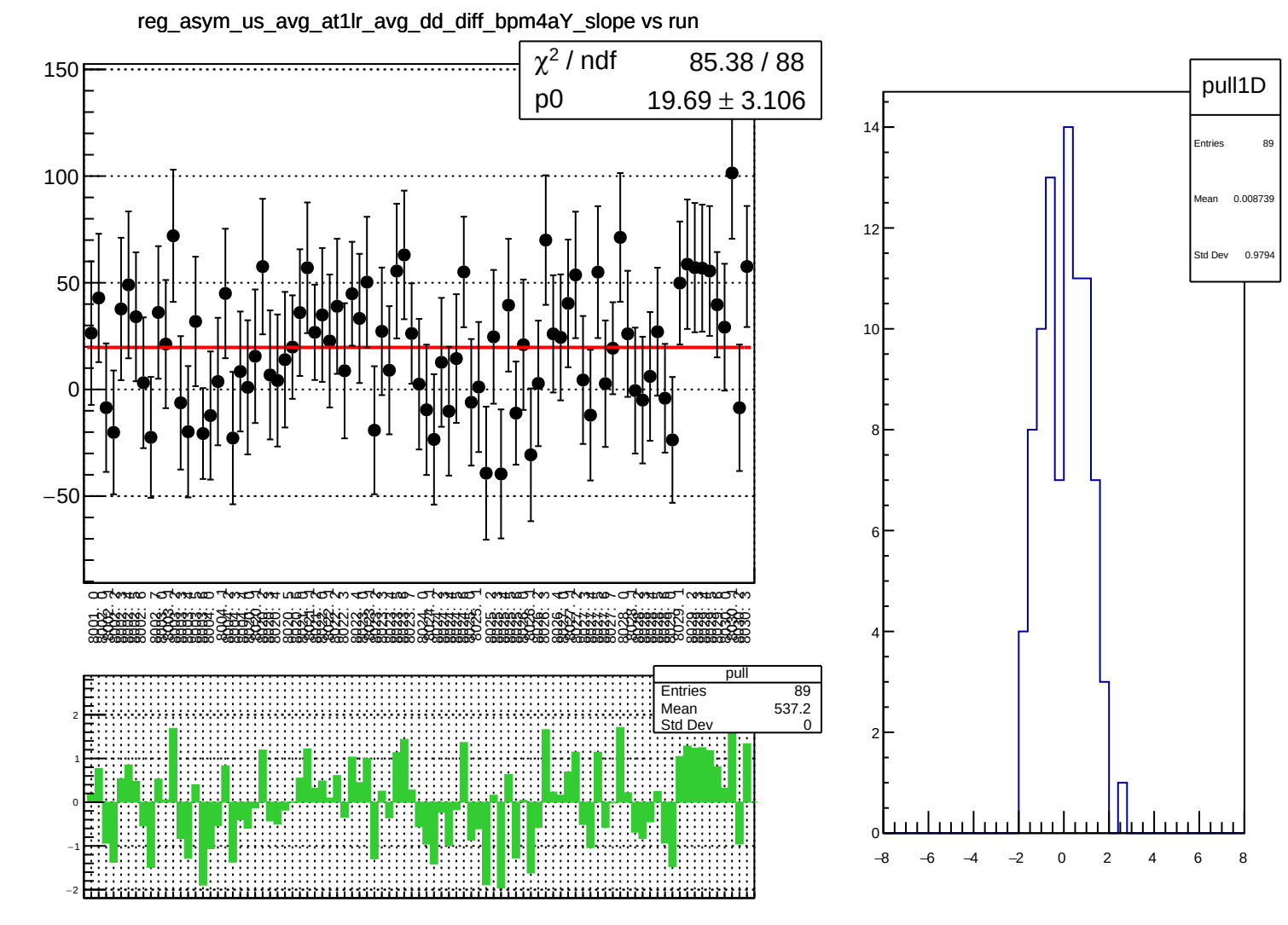

pull1D
Entries 89
Mean −0.04764
Std Dev 0.8213

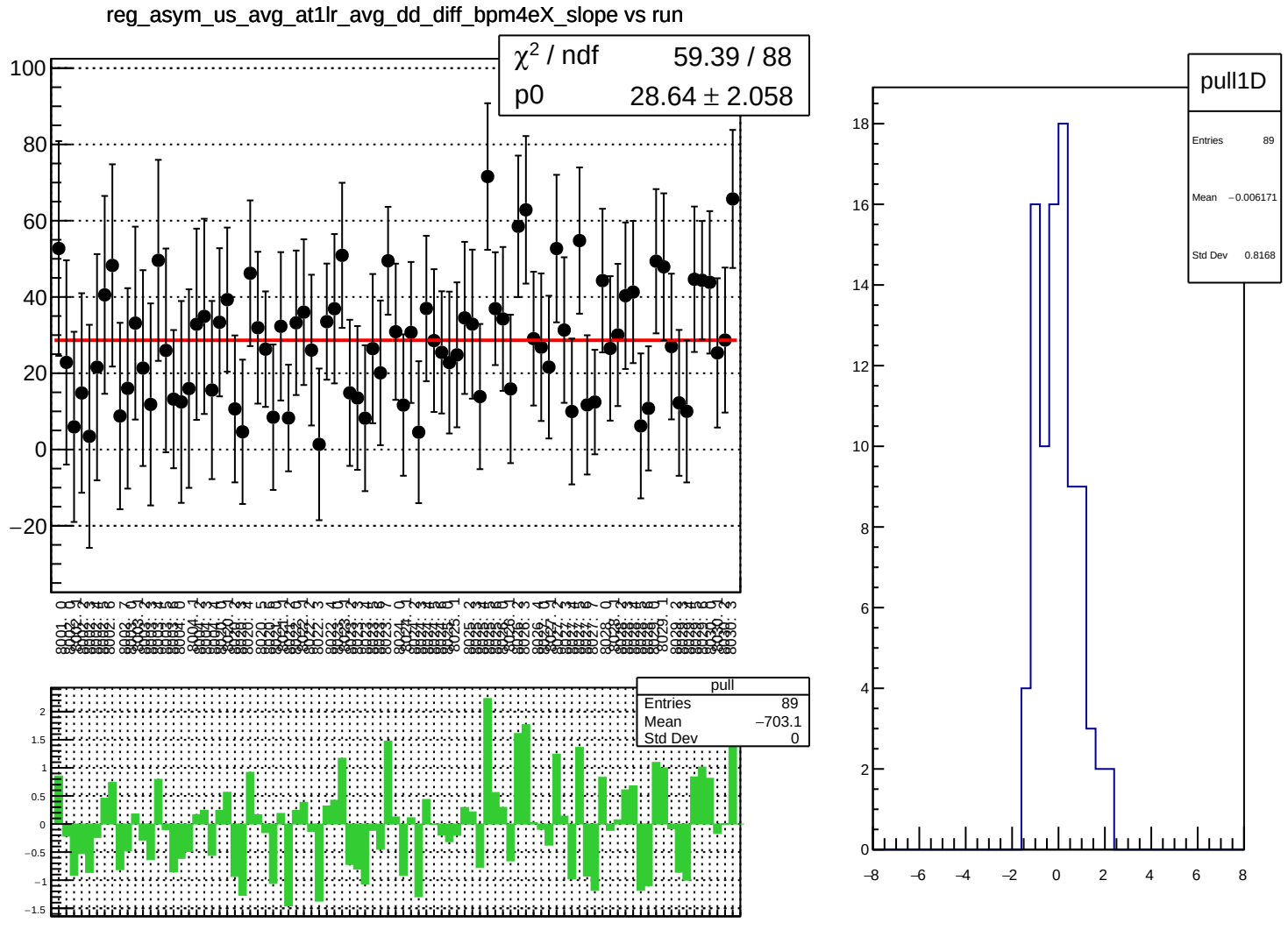

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 43.42 / 88
p0 1.311 ± 5.648
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean 538.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean −0.001277
Std Dev 0.6985
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

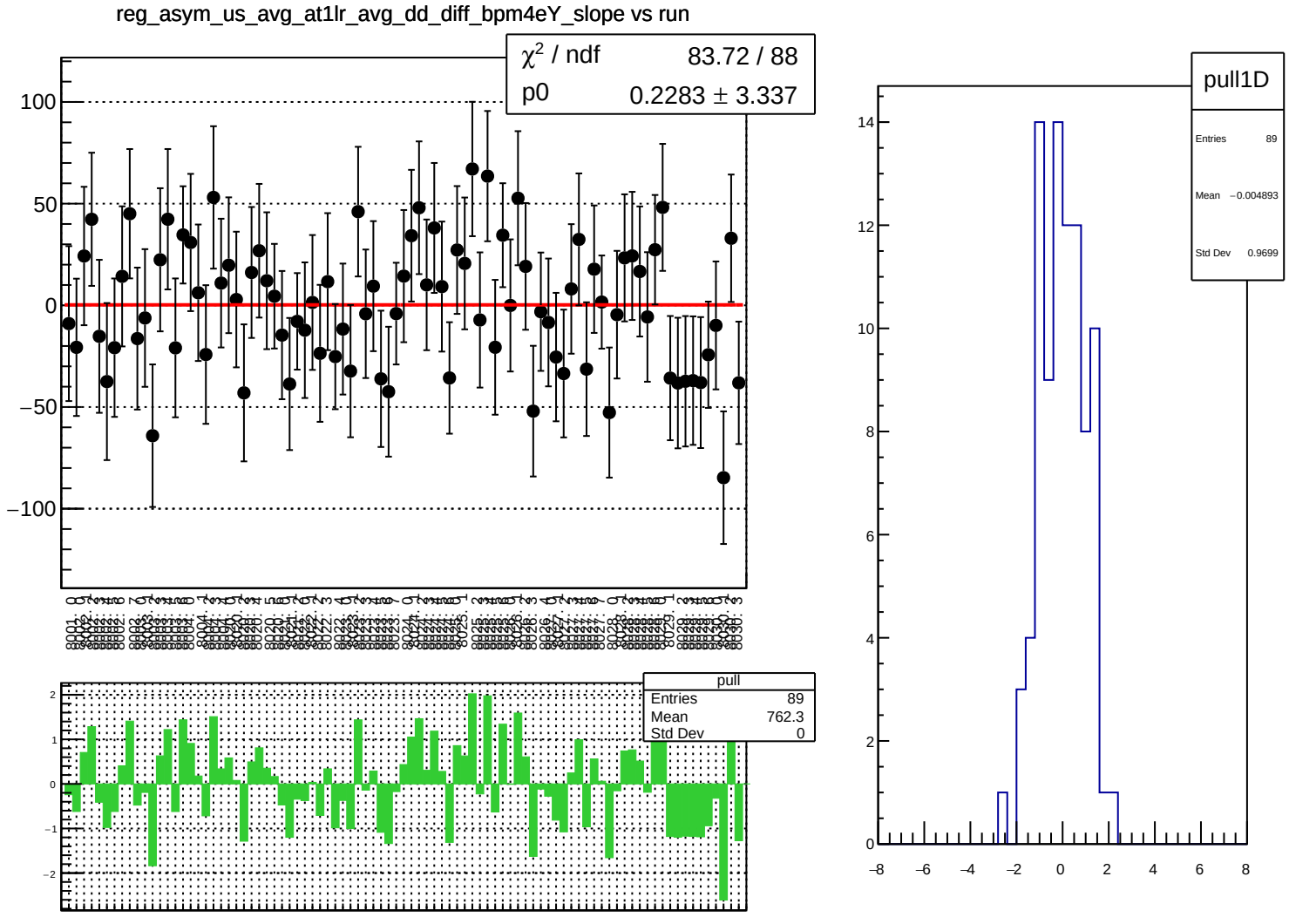

reg_asym_us_avg_at1lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 1261 / 88
p0 −63.44 ± 0.247
−40
−50
−60
−70
−80
pull
Entries 89
Mean 95.85
Std Dev 0
15
10
5
0
−5
pull1D
Entries 89
Mean −1.537
Std Dev 2.444
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

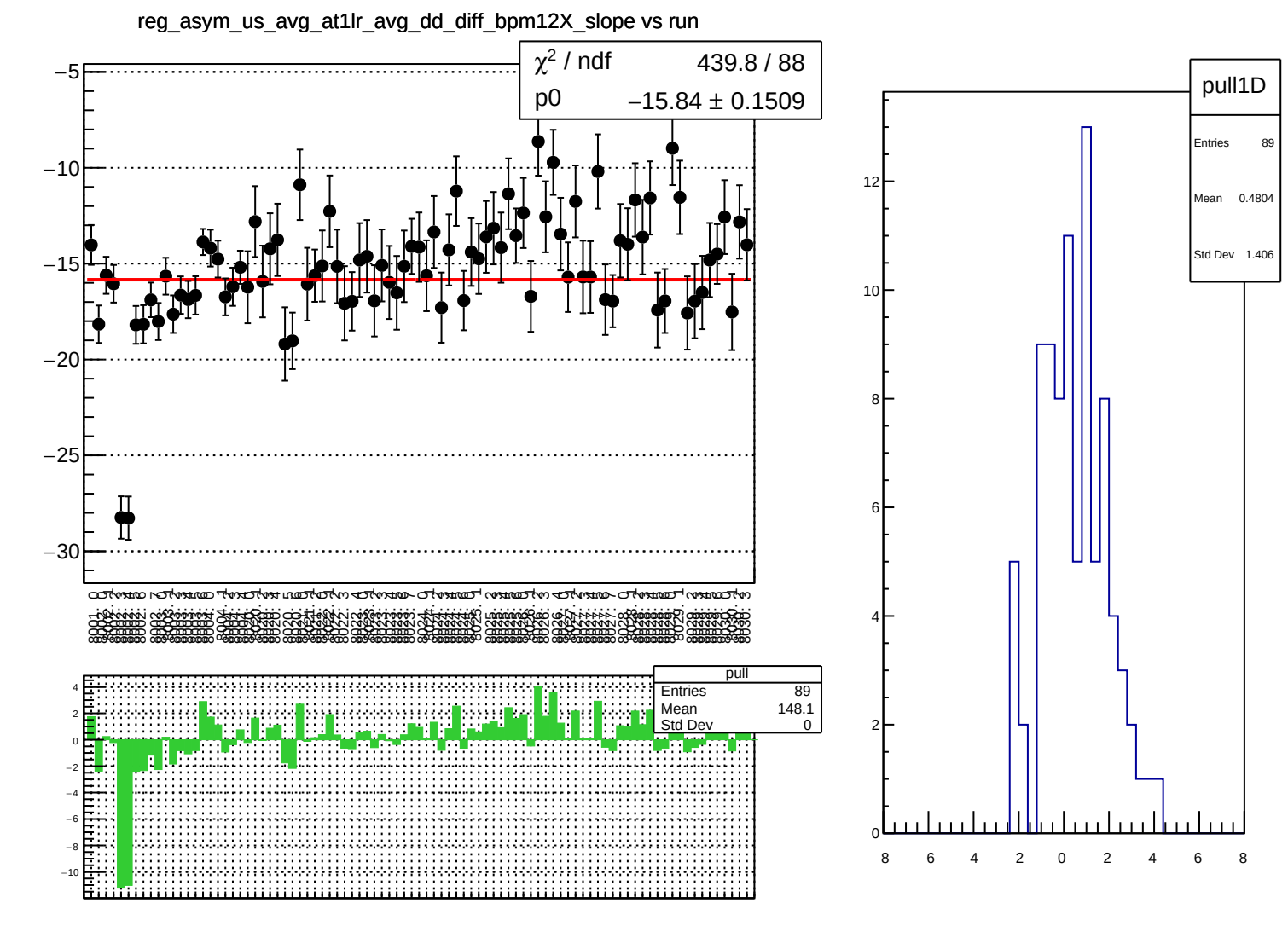

reg_asym_us_avg_at1lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 60.9 / 88
p0 −20.97 ± 1.969
pull
Entries 89
Mean −171.7
Std Dev 0

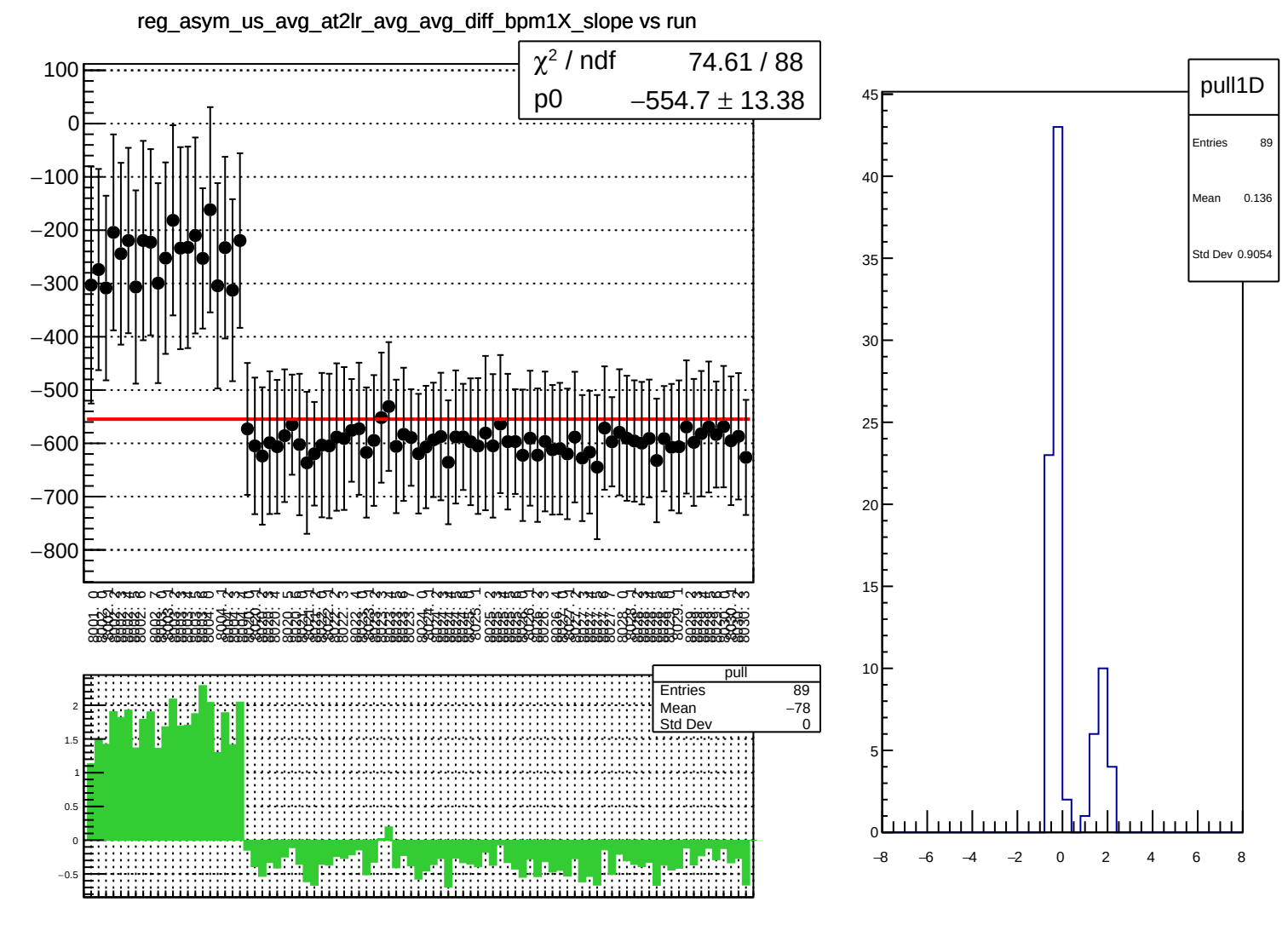

pull1D
Entries 89
Mean 0.02808
Std Dev 0.8267

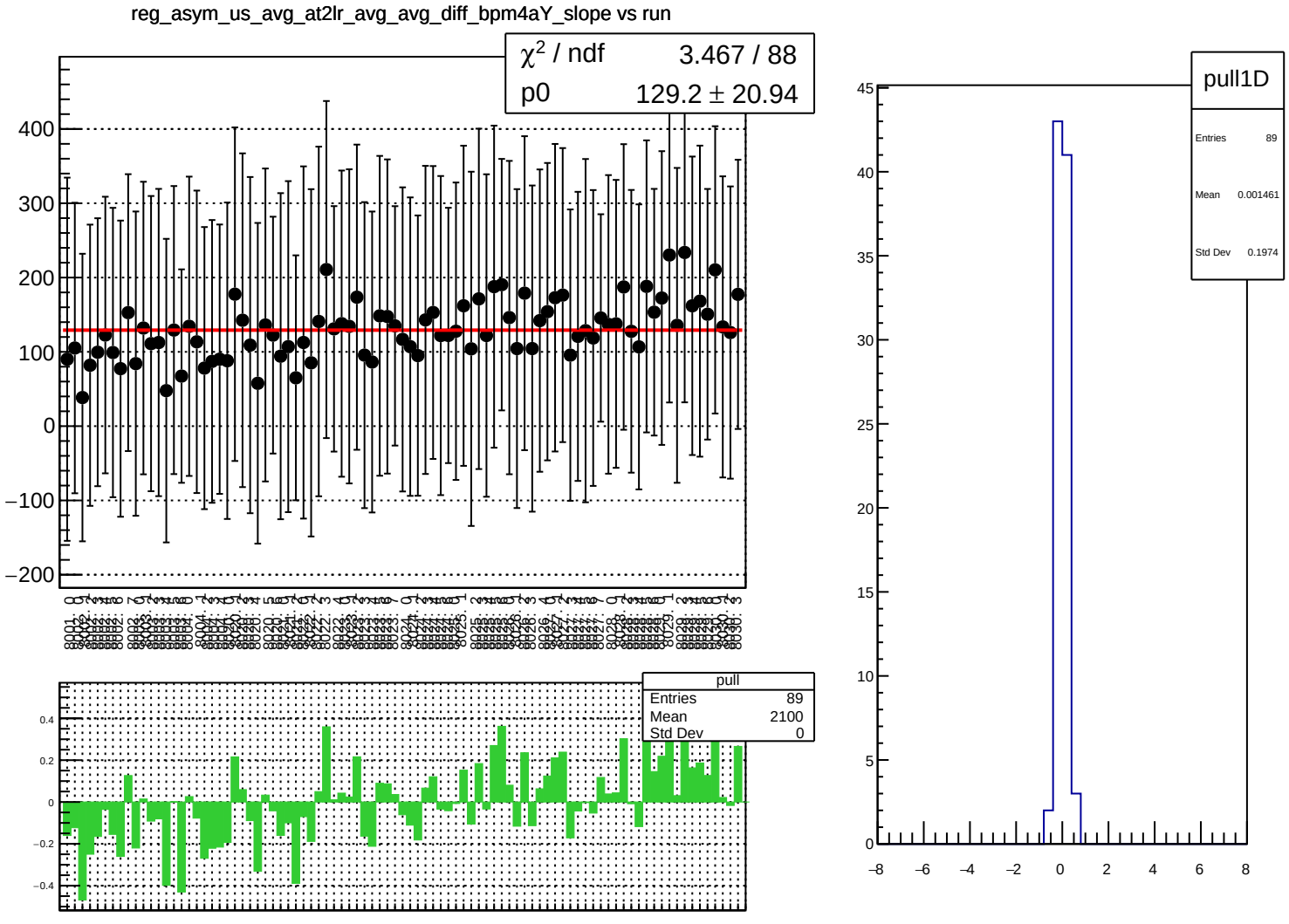

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 85.38 / 88
p0 19.69 ± 3.106
150
100
50
0
−50
pull
Entries 89
Mean 537.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.008739
Std Dev 0.9794
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

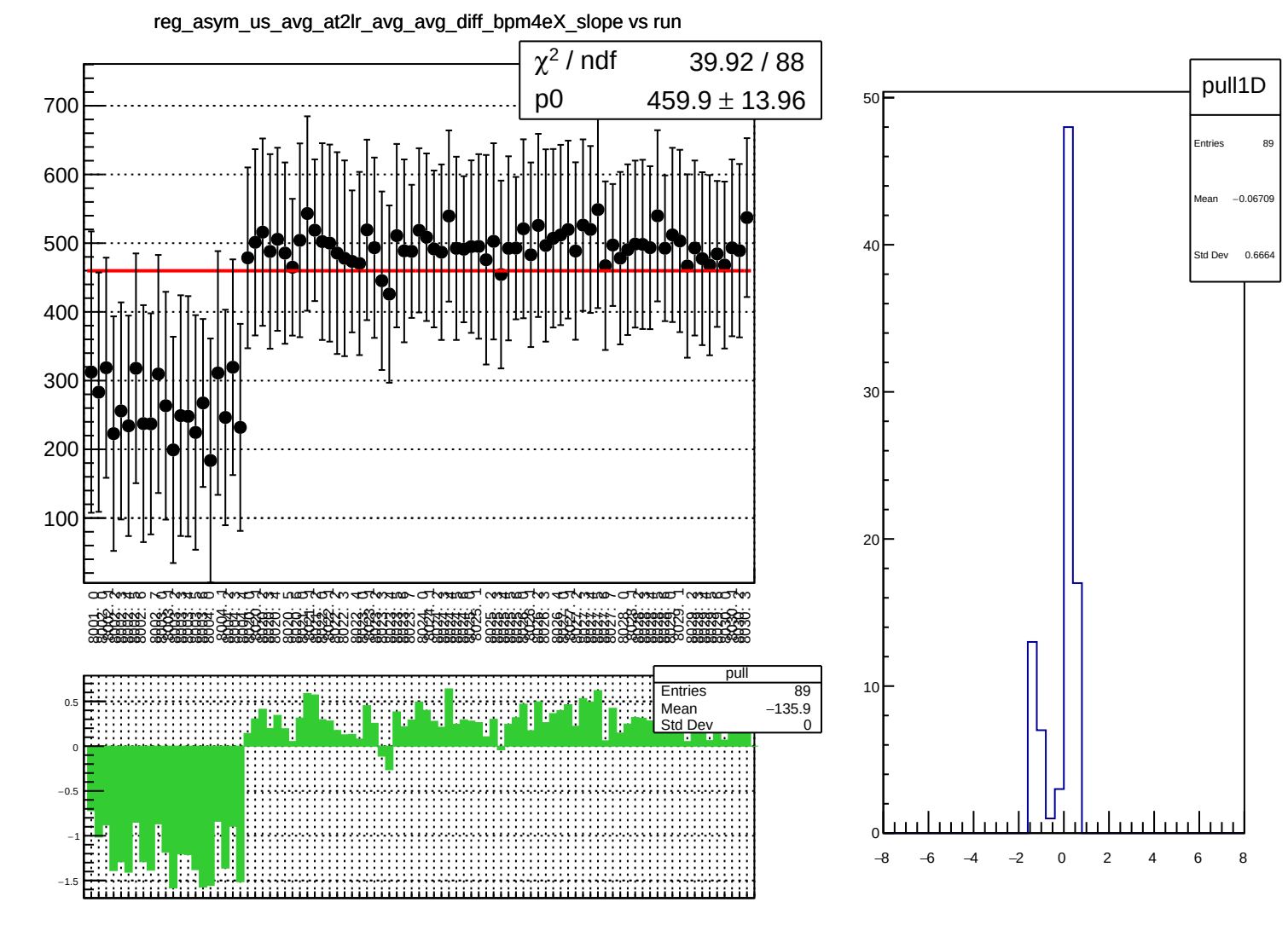

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 59.39 / 88
p0 28.64 ± 2.058
pull
Entries 89
Mean −703.1
Std Dev 0
pull1D
Entries 89
Mean −0.006171
Std Dev 0.8168

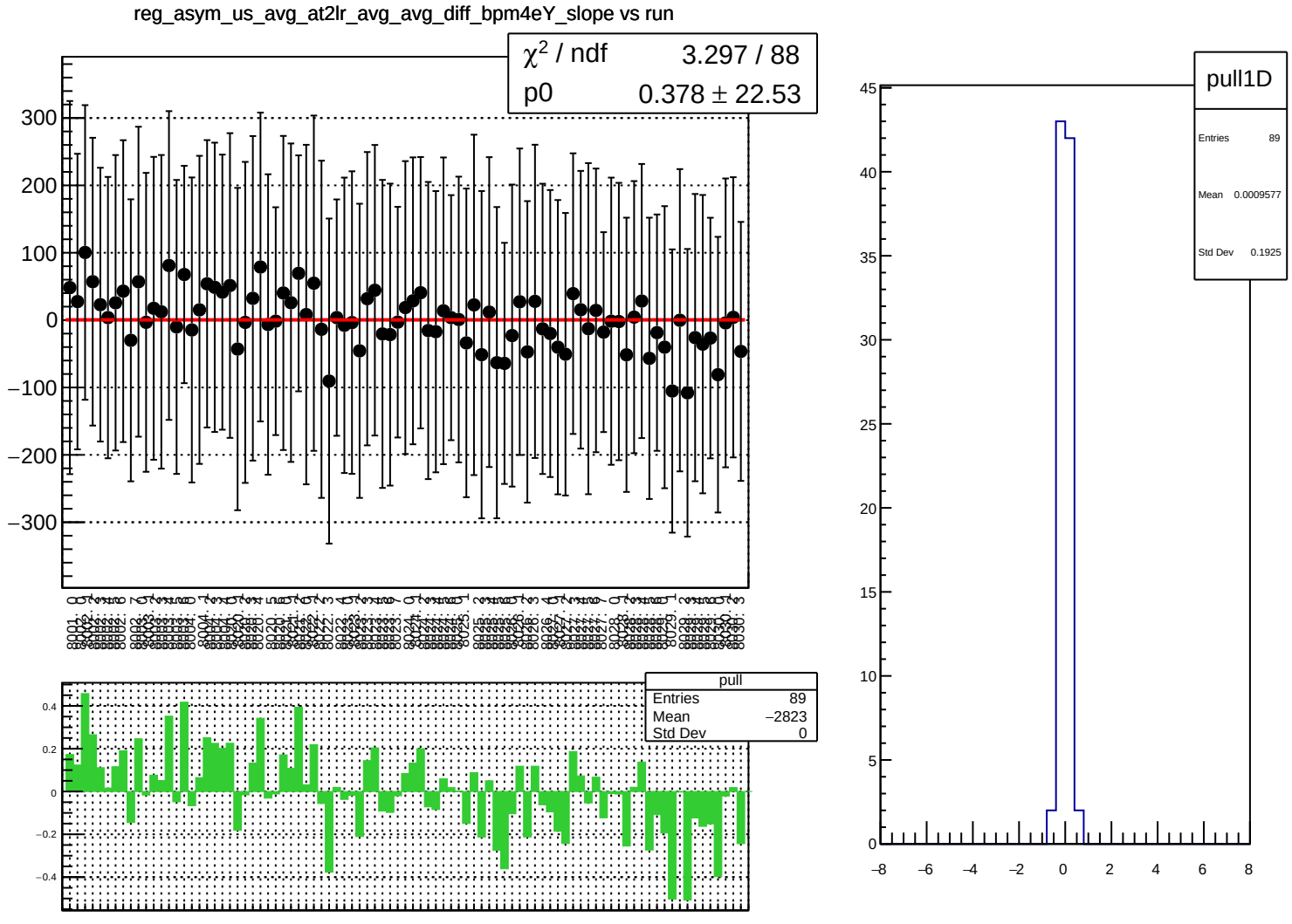

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 83.72 / 88
p0 0.2283 ± 3.337
100
50
0
−50
−100
pull
Entries 89
Mean 762.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.004893
Std Dev 0.9699
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

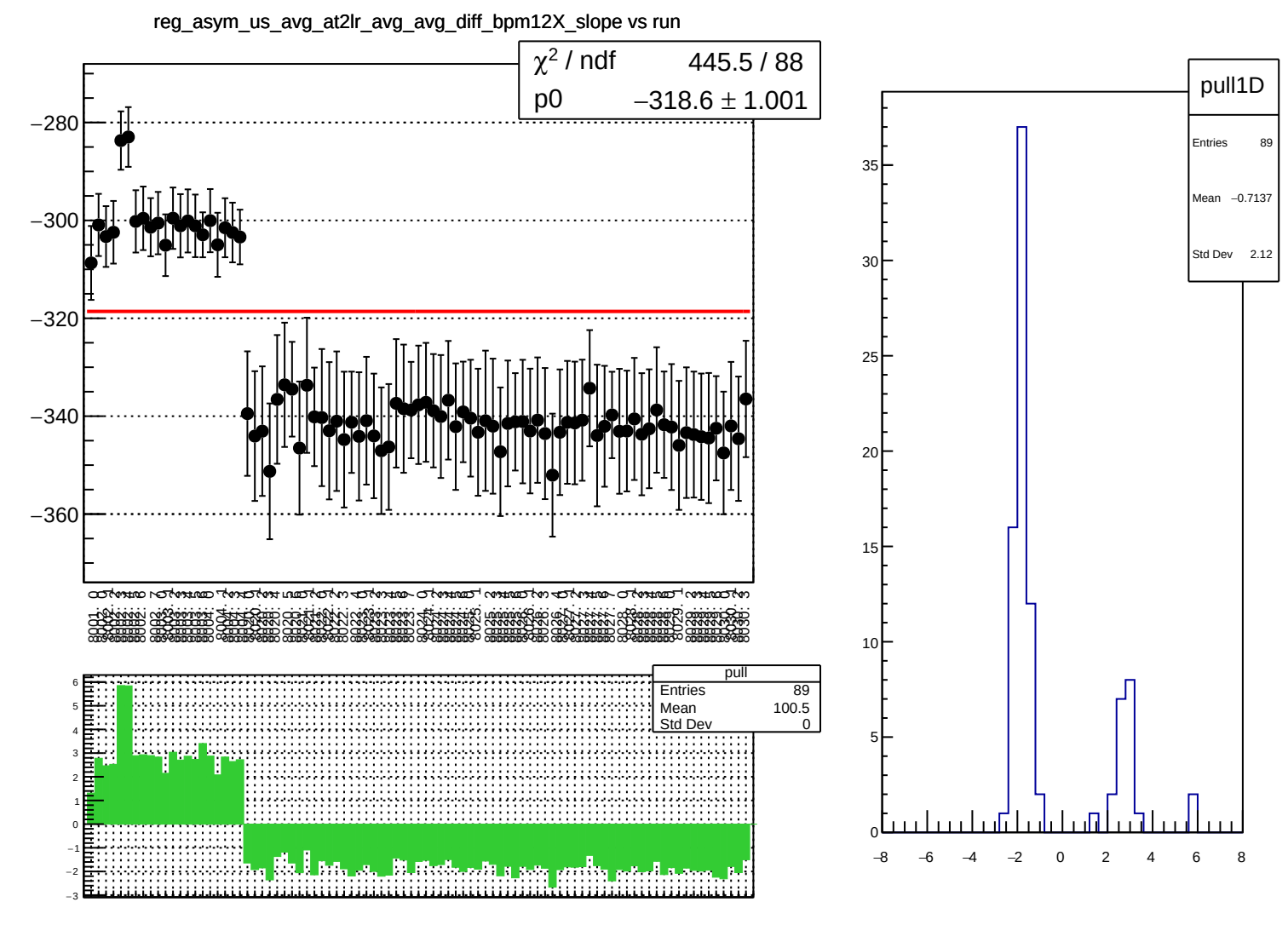

reg_asym_us_avg_at1lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 439.8 / 88
p0 −15.84 ± 0.1509
pull
Entries 89
Mean 148.1
Std Dev 0
pull1D
Entries 89
Mean 0.4804
Std Dev 1.406

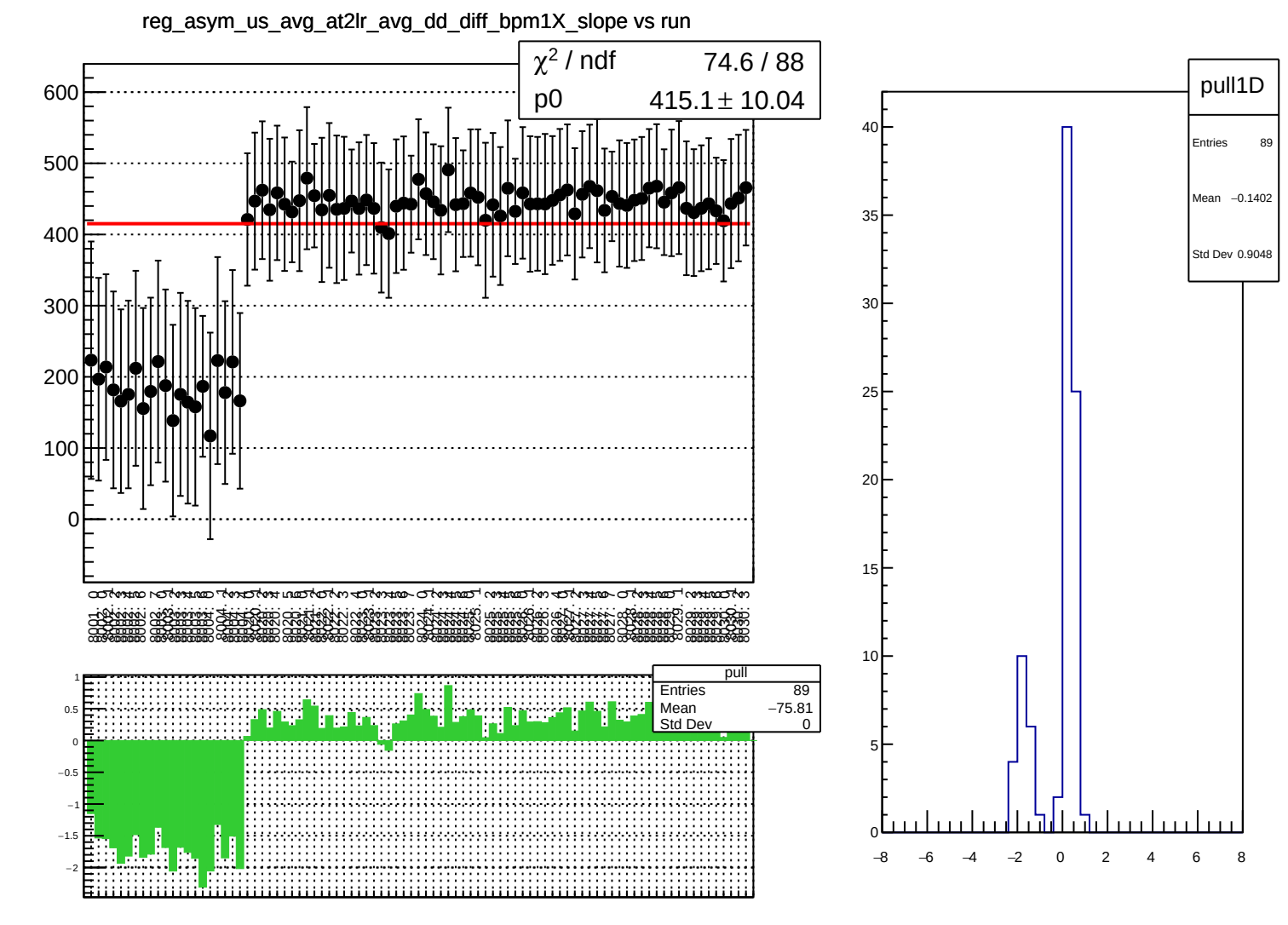

reg_asym_us_avg_at2lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 74.61 / 88
p0 −554.7 ± 13.38
pull
Entries 89
Mean −78
Std Dev 0
pull1D
Entries 89
Mean 0.136
Std Dev 0.9054

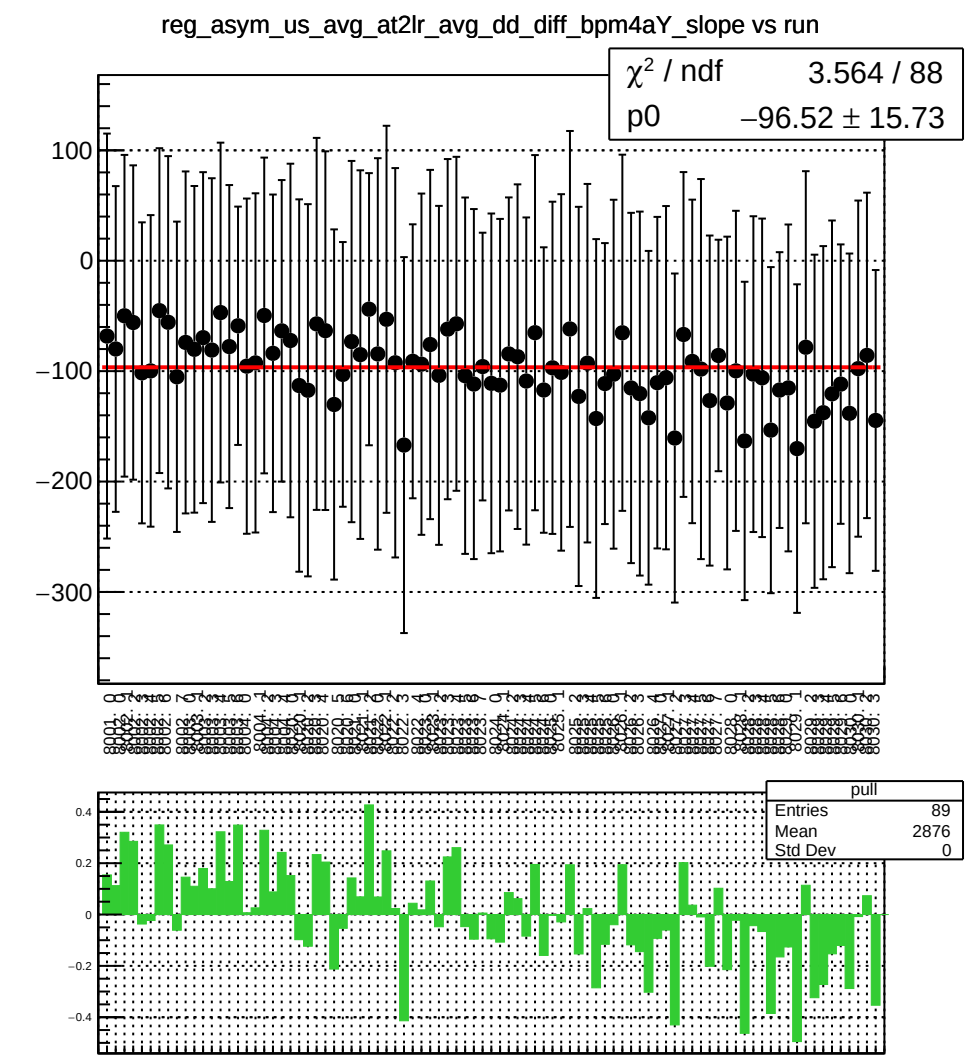

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.467 / 88
p0 129.2 ± 20.94
pull
Entries 89
Mean 2100
Std Dev 0
pull1D
Entries 89
Mean 0.001461
Std Dev 0.1974

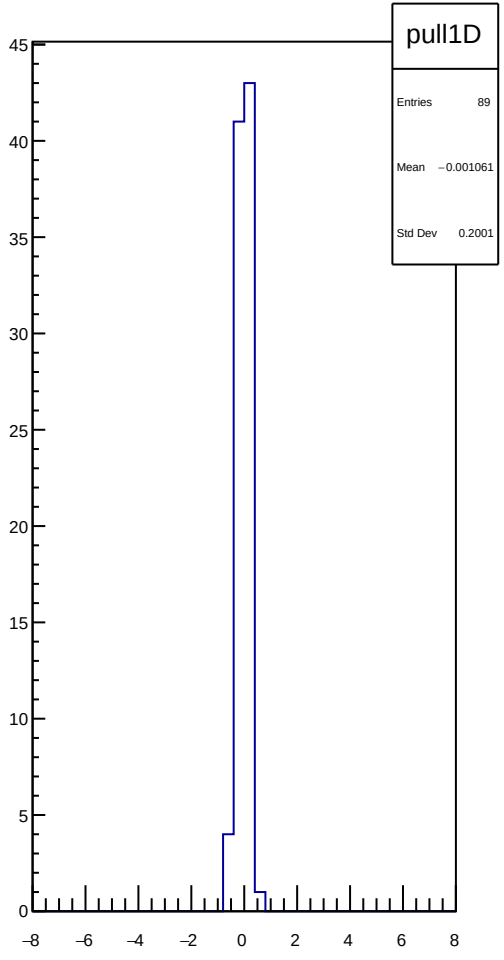

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 39.92 / 88
p0 459.9 ± 13.96
700
600
500
400
300
200
100
pull
Entries 89
Mean −135.9
Std Dev 0
0.5
0
−0.5
−1
−1.5
pull1D
Entries 89
Mean −0.06709
Std Dev 0.6664
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

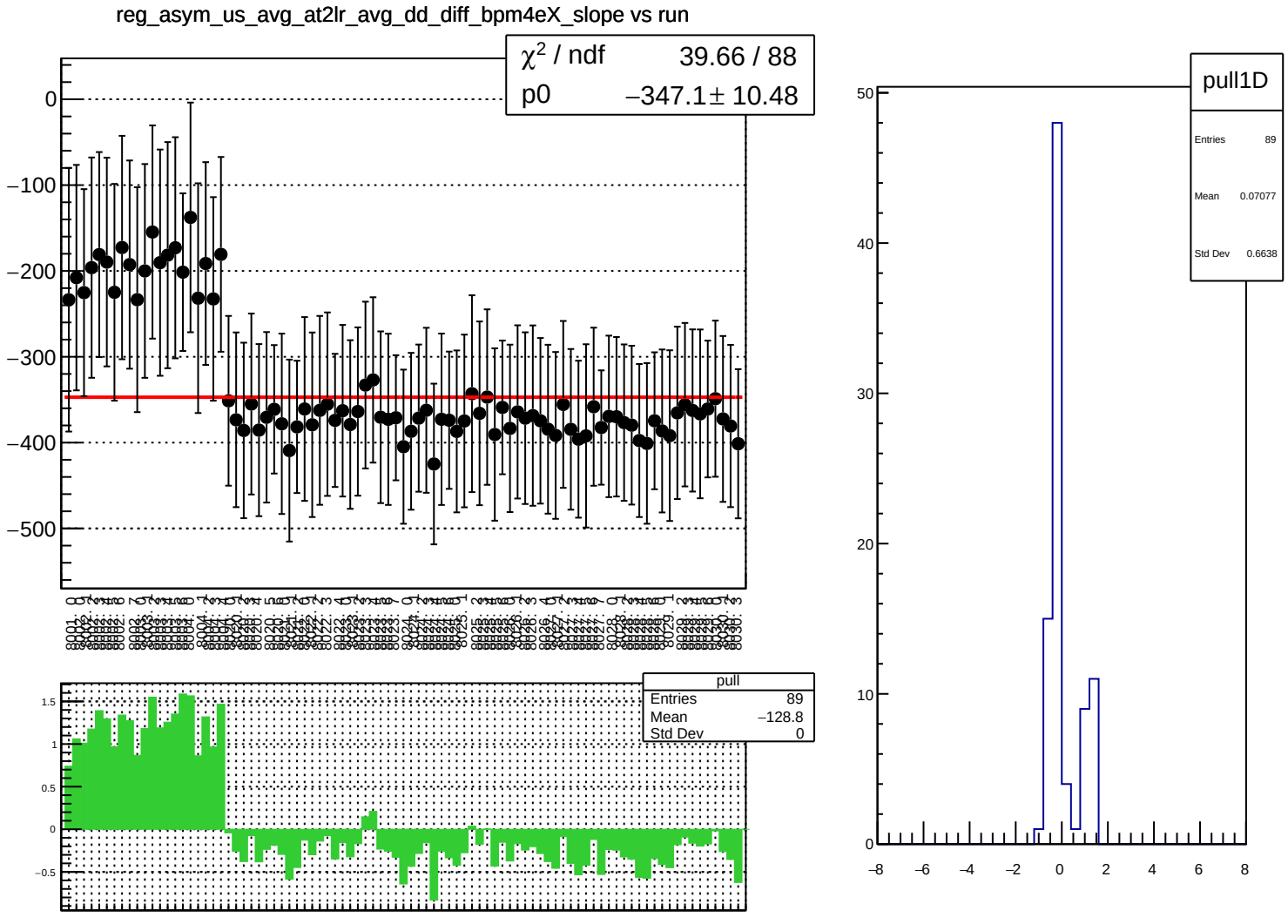

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.297 / 88
p0 0.378 ± 22.53
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −2823
Std Dev 0
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 89
Mean 0.0009577
Std Dev 0.1925
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

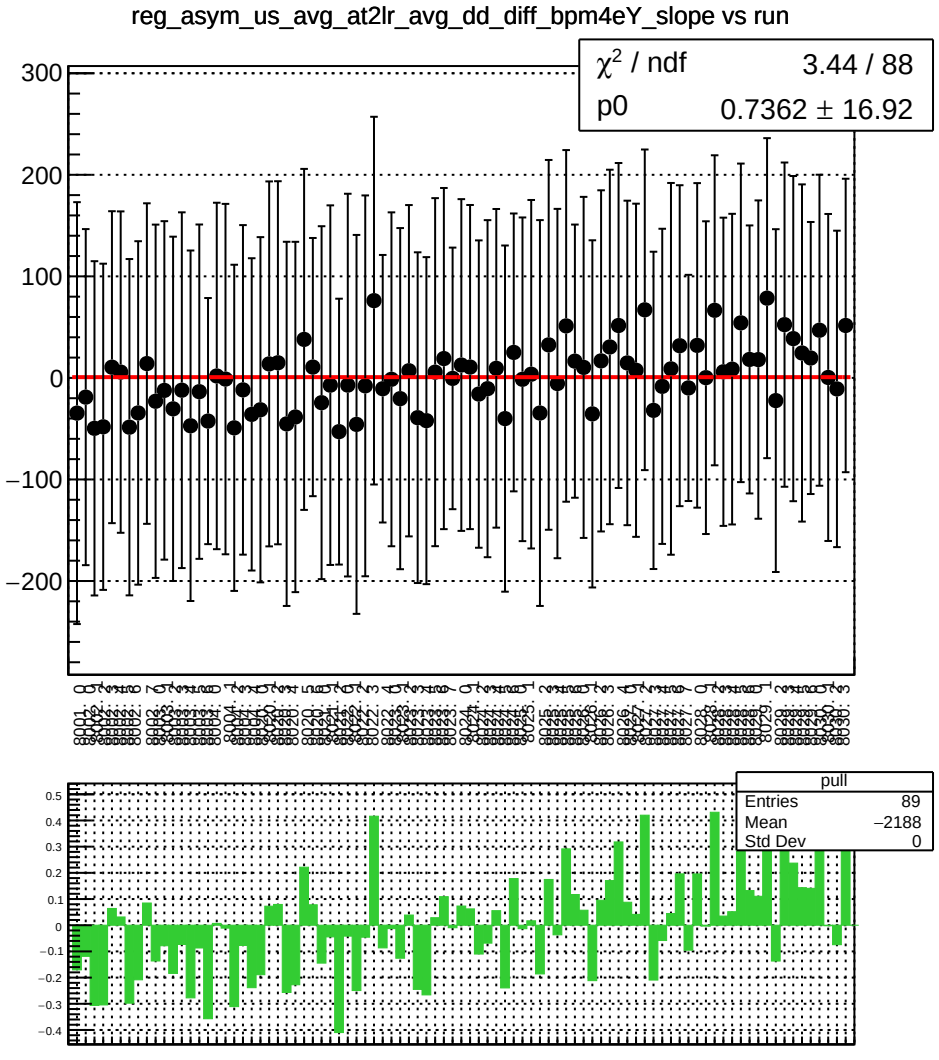

reg_asym_us_avg_at2lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 445.5 / 88
p0 −318.6 ± 1.001
−280
−300
−320
−340
−360
pull
Entries 89
Mean 100.5
Std Dev 0
pull1D
Entries 89
Mean −0.7137
Std Dev 2.12

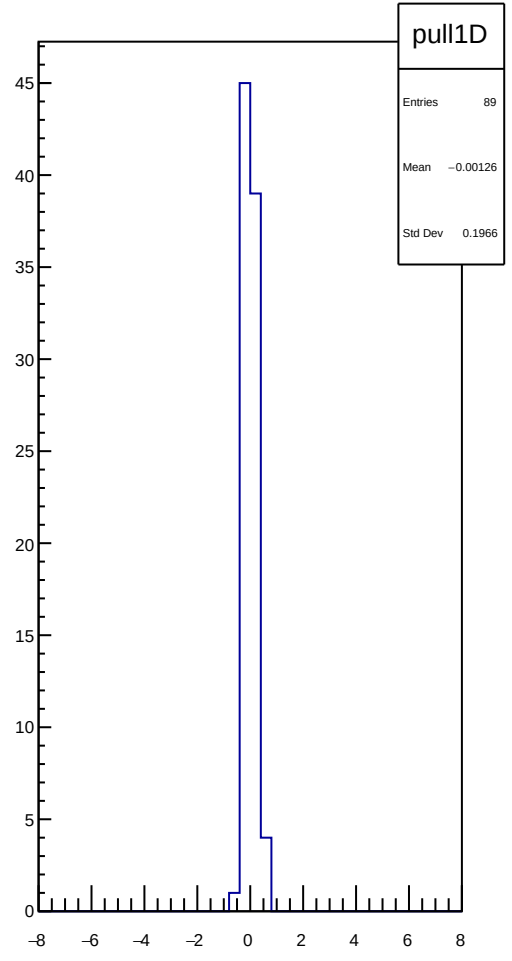

reg_asym_us_avg_at2lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 74.6 / 88
p0 415.1 ± 10.04
pull
Entries 89
Mean −75.81
Std Dev 0
pull1D
Entries 89
Mean −0.1402
Std Dev 0.9048

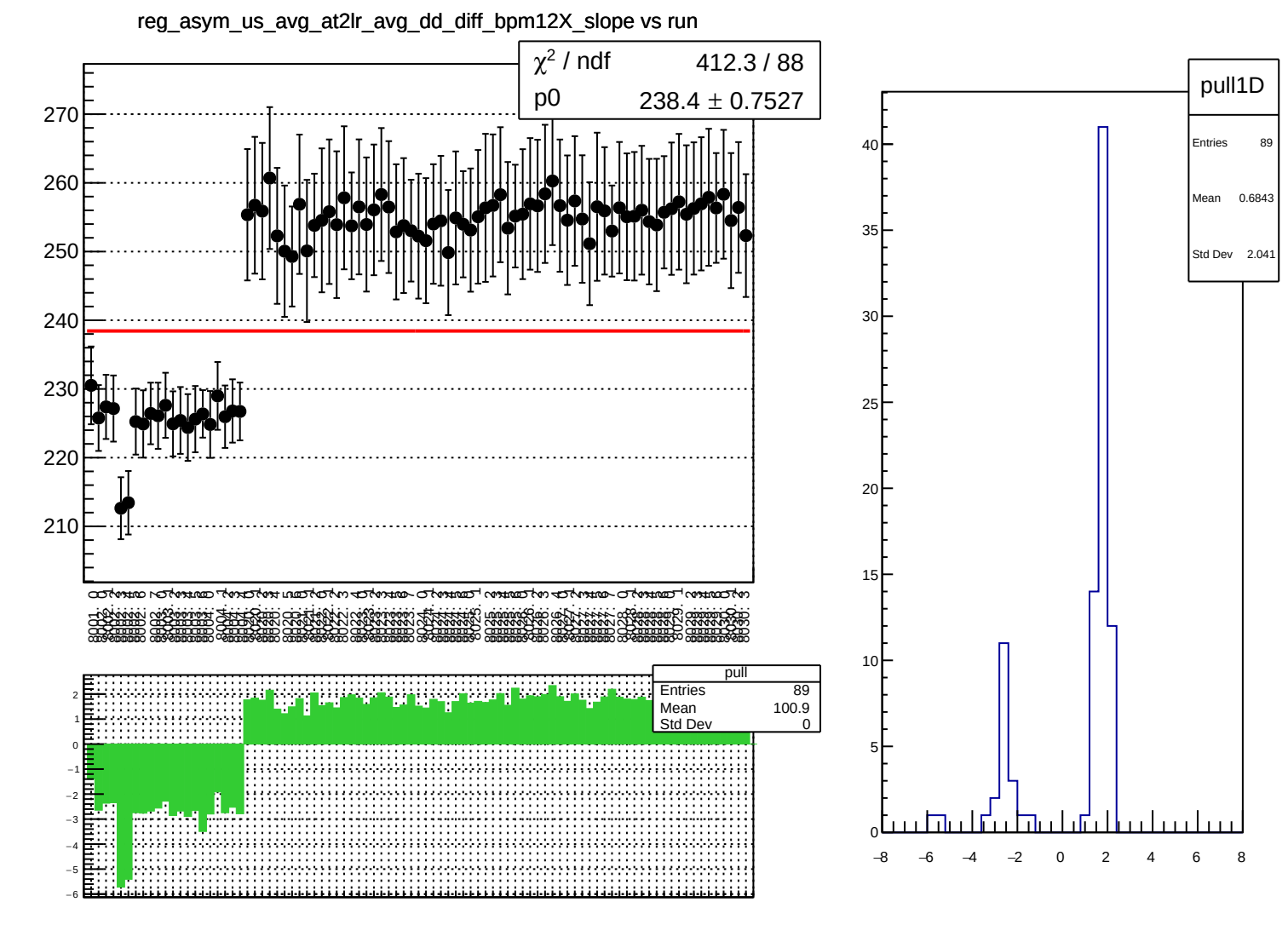

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.564 / 88
p0 −96.52 ± 15.73
100
0
−100
−200
−300
pull
Entries 89
Mean 2876
Std Dev 0
0.4
0.2
0
−0.2
−0.4

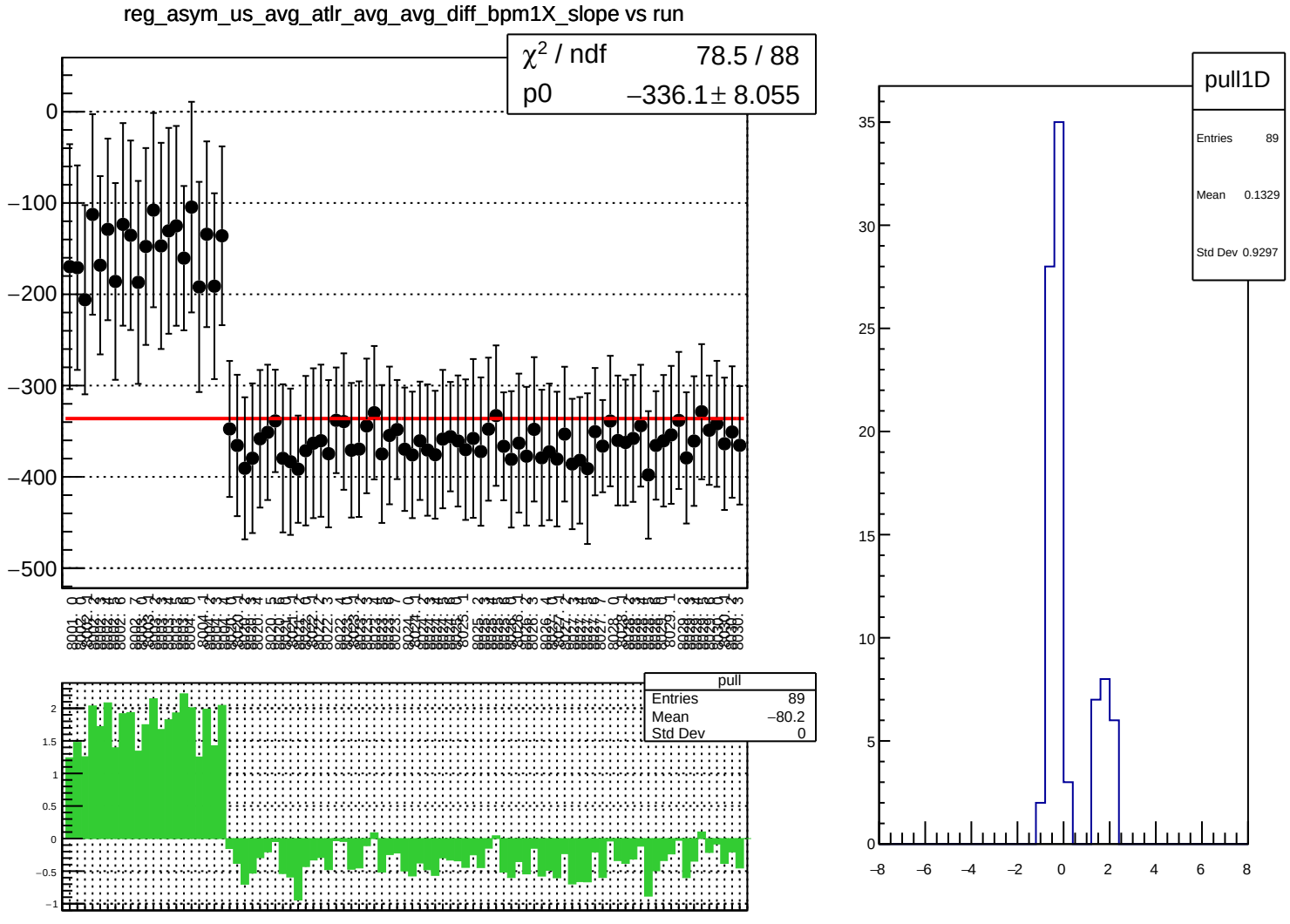

pull1D
Entries 89
Mean −0.001061
Std Dev 0.2001
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

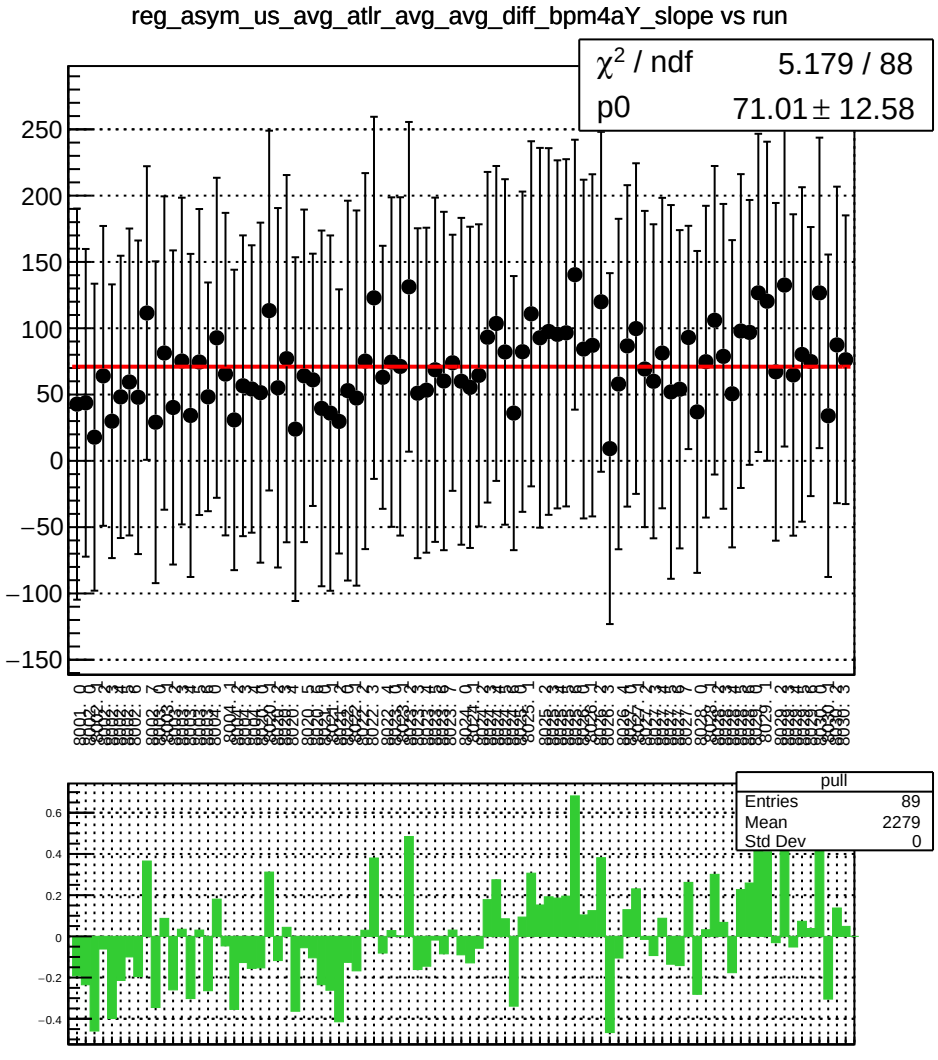

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 39.66 / 88
p0 −347.1± 10.48
pull
Entries 89
Mean −128.8
Std Dev 0
pull1D
Entries 89
Mean 0.07077
Std Dev 0.6638

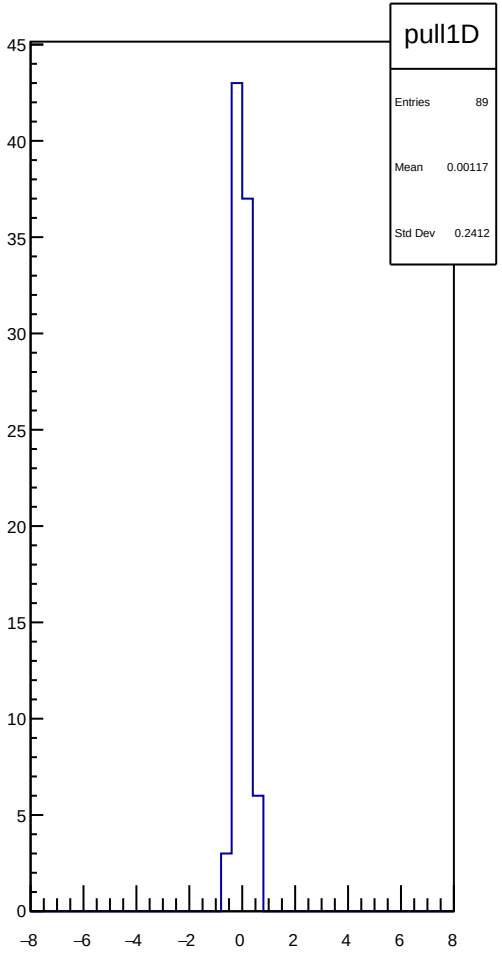

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.44 / 88
p0 0.7362 ± 16.92
pull
Entries 89
Mean −2188
Std Dev 0

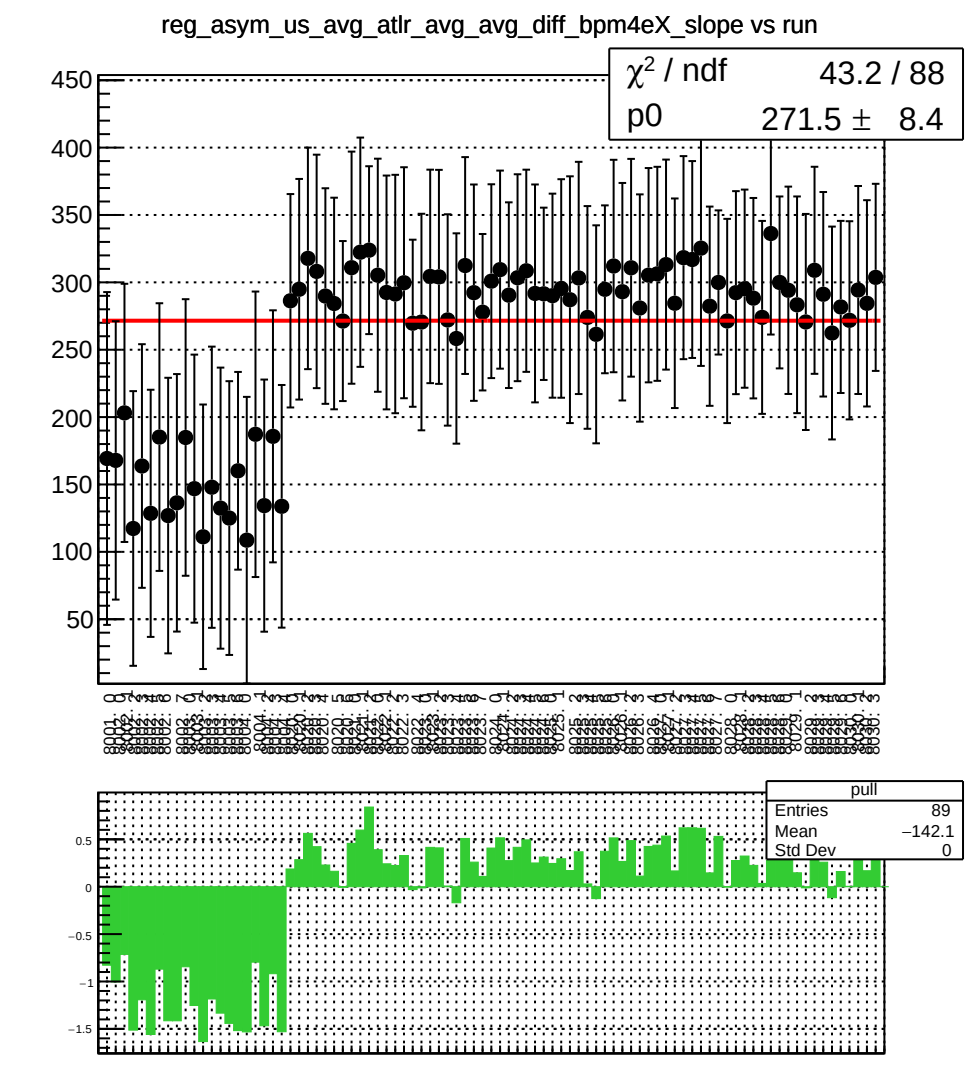

pull1D
Entries 89
Mean −0.00126
Std Dev 0.1966

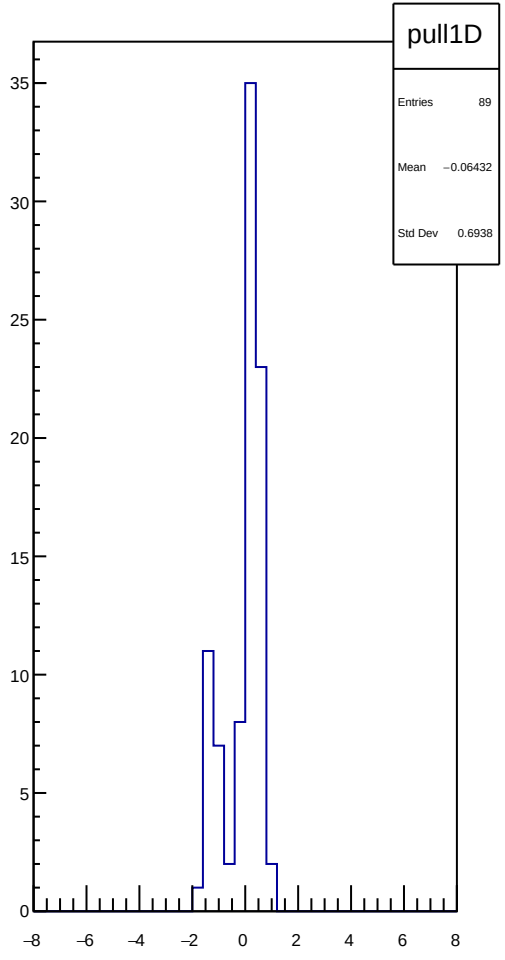

reg_asym_us_avg_at2lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 412.3 / 88
p0 238.4 ± 0.7527
pull
Entries 89
Mean 100.9
Std Dev 0
pull1D
Entries 89
Mean 0.6843
Std Dev 2.041

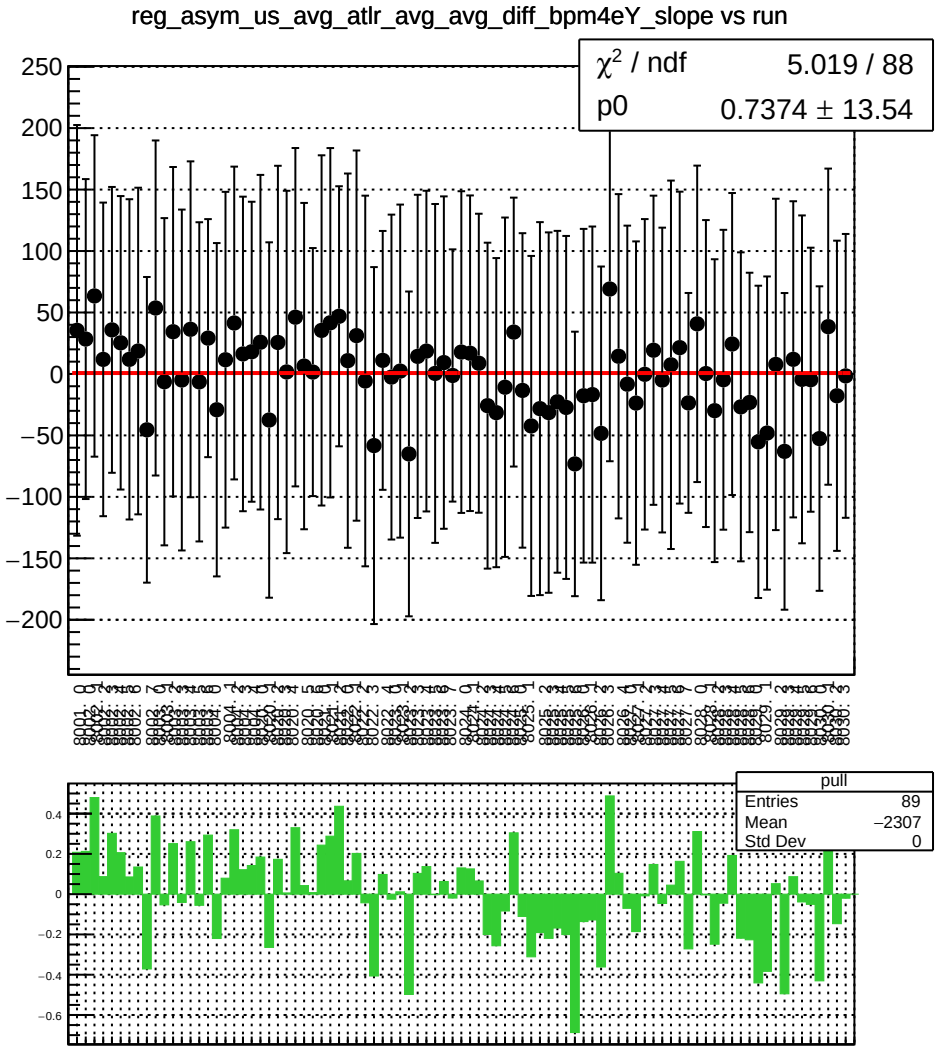

reg_asym_us_avg_atlr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 78.5 / 88
p0 −336.1 ± 8.055
pull
Entries 89
Mean −80.2
Std Dev 0
pull1D
Entries 89
Mean 0.1329
Std Dev 0.9297

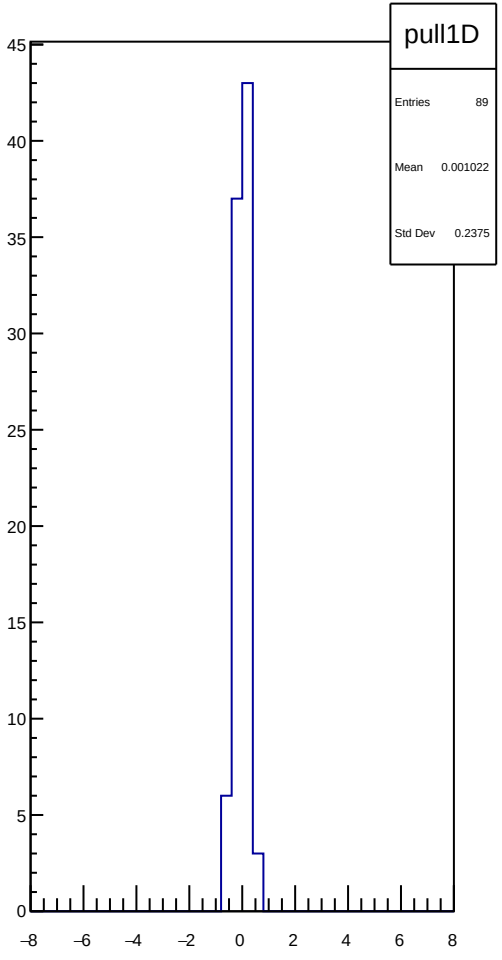

reg_asym_us_avg_atlr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.179 / 88
p0 71.01 ± 12.58
pull
Entries 89
Mean 2279
Std Dev 0

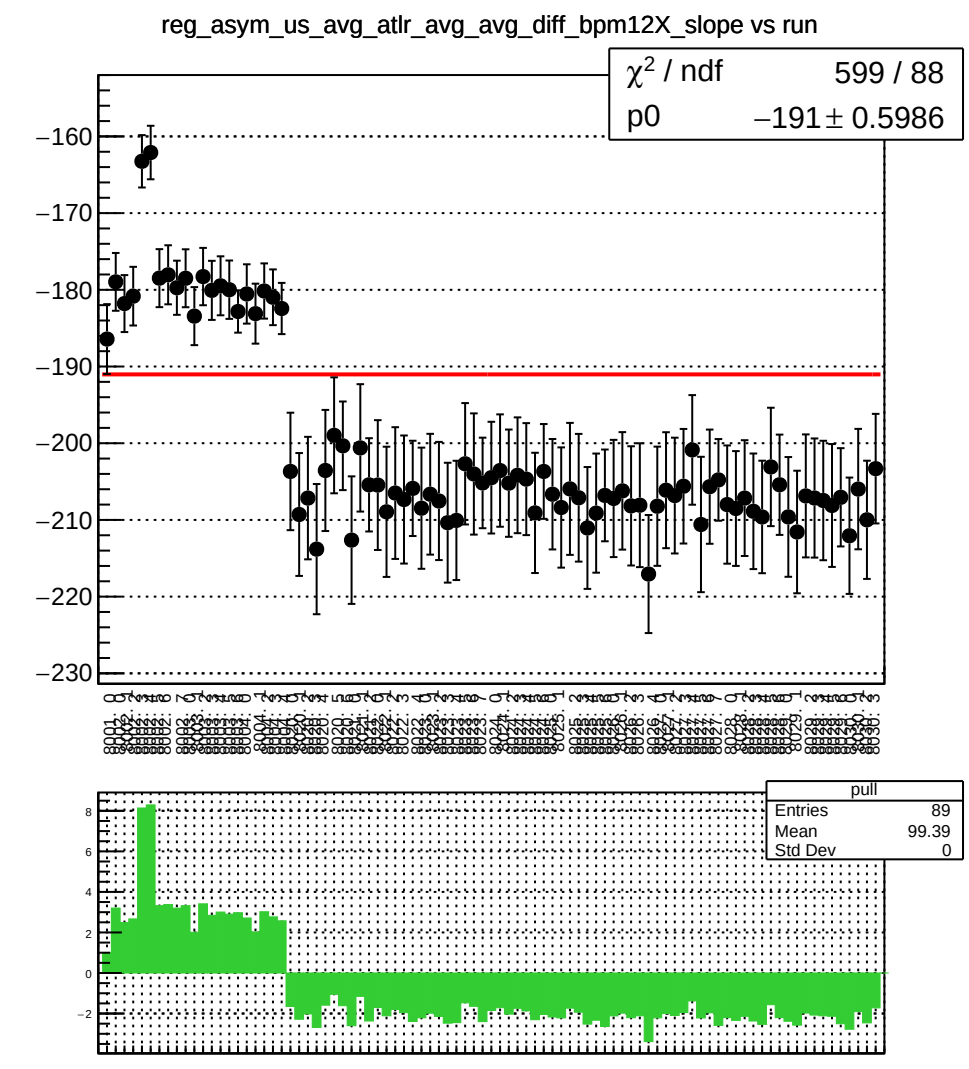

pull1D
Entries 89
Mean 0.00117
Std Dev 0.2412

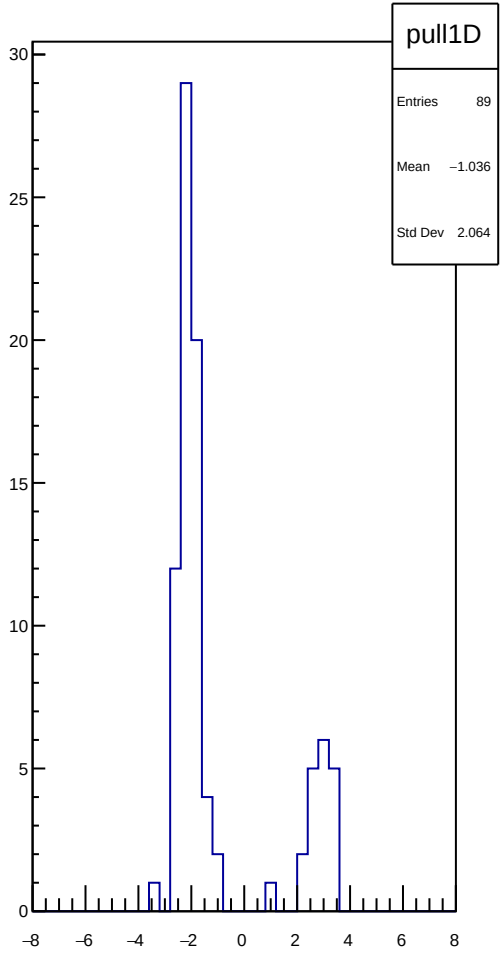

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 43.2 / 88
p0 271.5 ± 8.4
pull
Entries 89
Mean −142.1
Std Dev 0

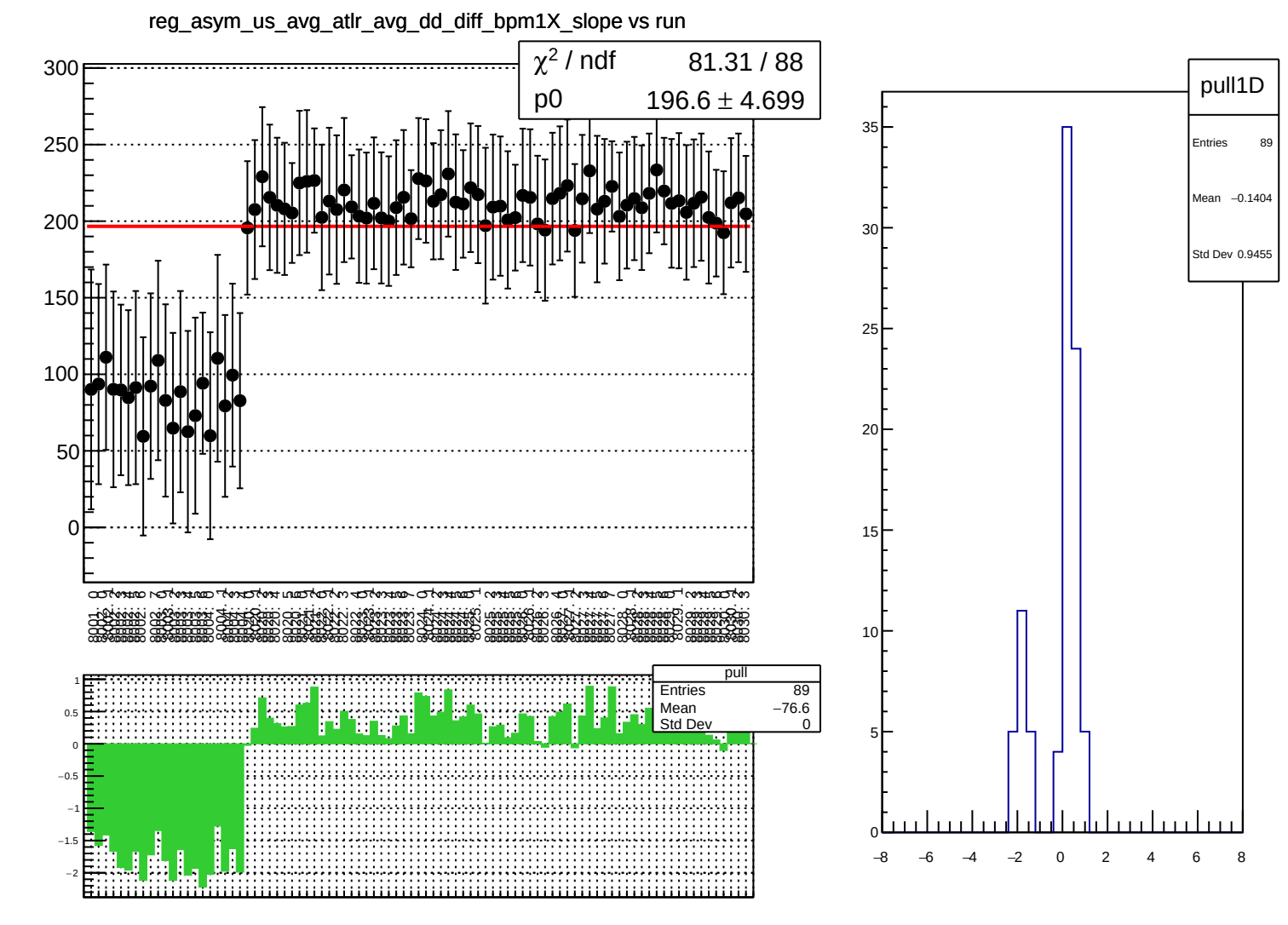

pull1D
Entries 89
Mean −0.06432
Std Dev 0.6938

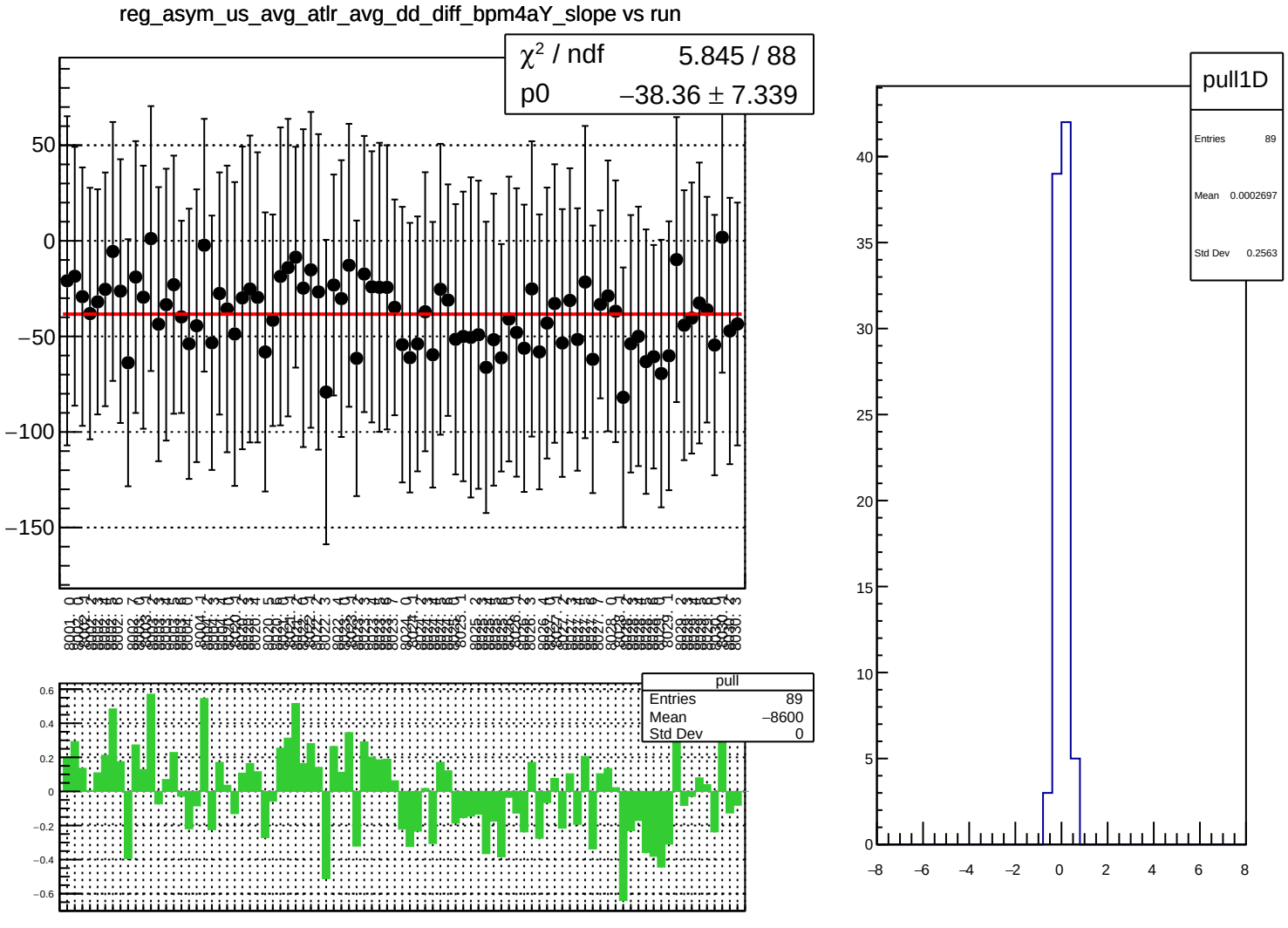

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.019 / 88
p0 0.7374 ± 13.54
pull
Entries 89
Mean −2307
Std Dev 0

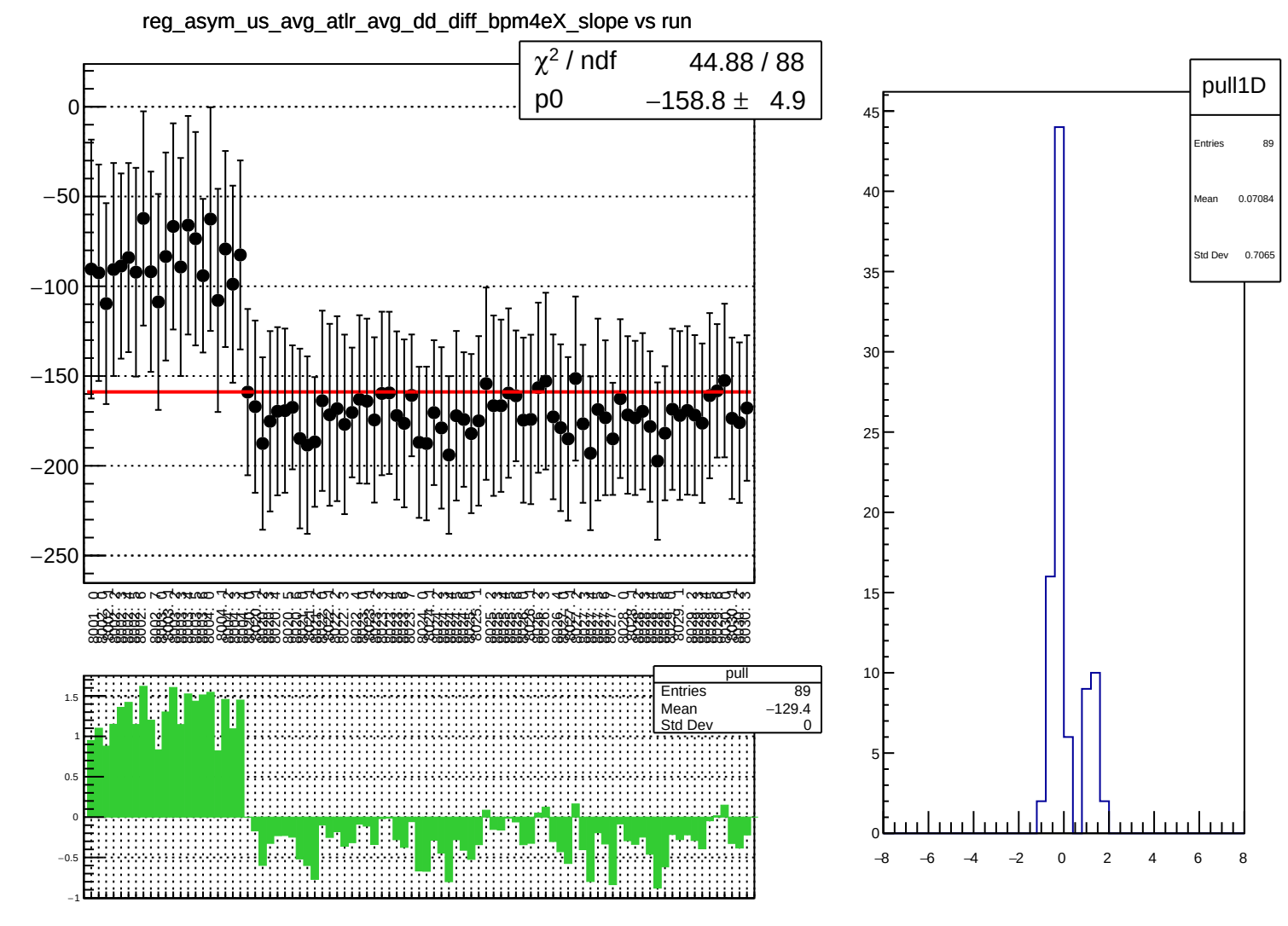

pull1D
Entries 89
Mean 0.001022
Std Dev 0.2375

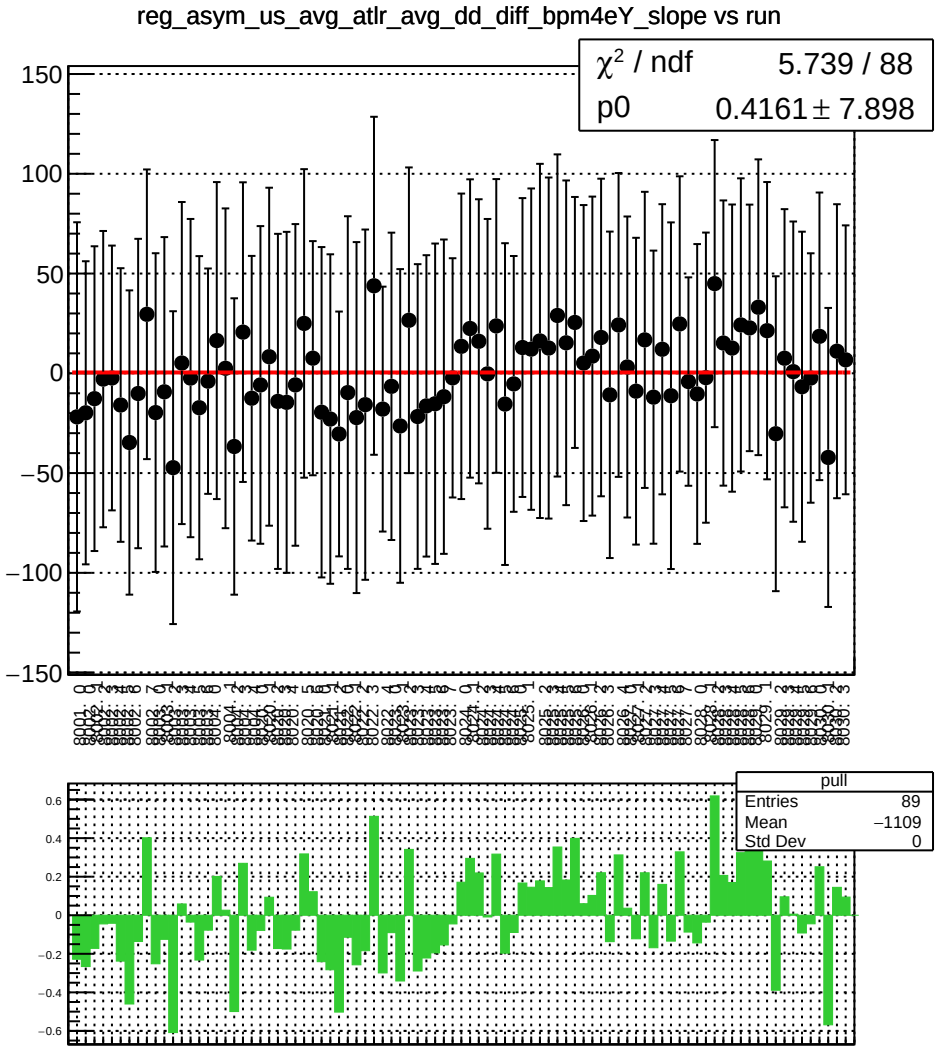

reg_asym_us_avg_atlr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 599 / 88
p0 −191 ± 0.5986
−160
−170
−180
−190
−200
−210
−220
−230
pull
Entries 89
Mean 99.39
Std Dev 0
8
6
4
2
0
−2

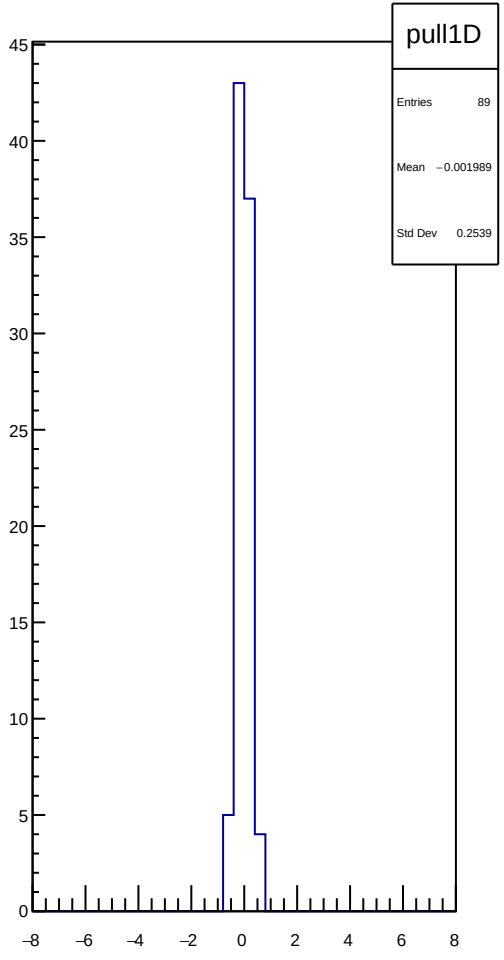

pull1D
Entries 89
Mean −1.036
Std Dev 2.064
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

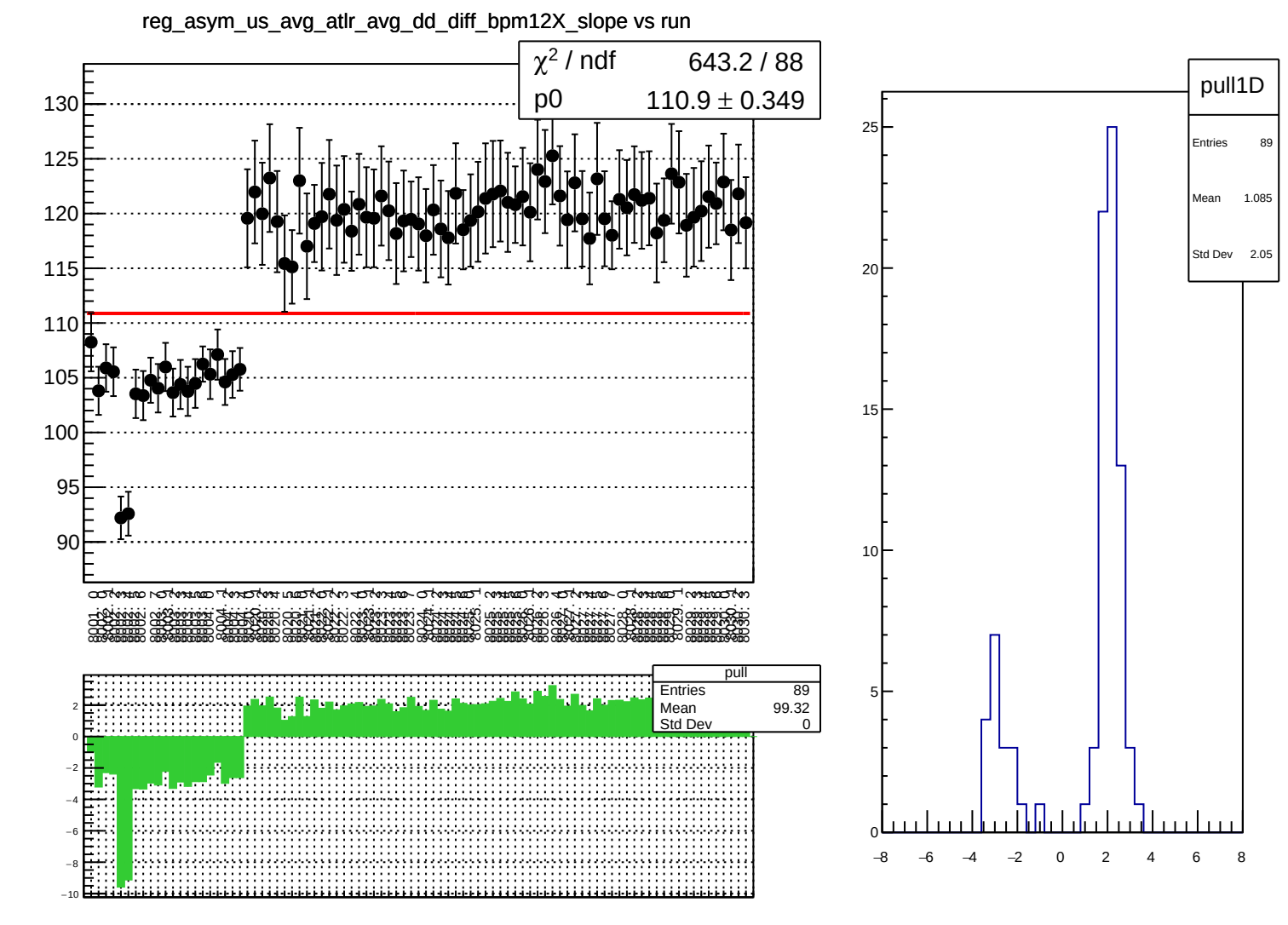

reg_asym_us_avg_atlr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 81.31 / 88
p0 196.6 ± 4.699
pull
Entries 89
Mean −76.6
Std Dev 0
pull1D
Entries 89
Mean −0.1404
Std Dev 0.9455

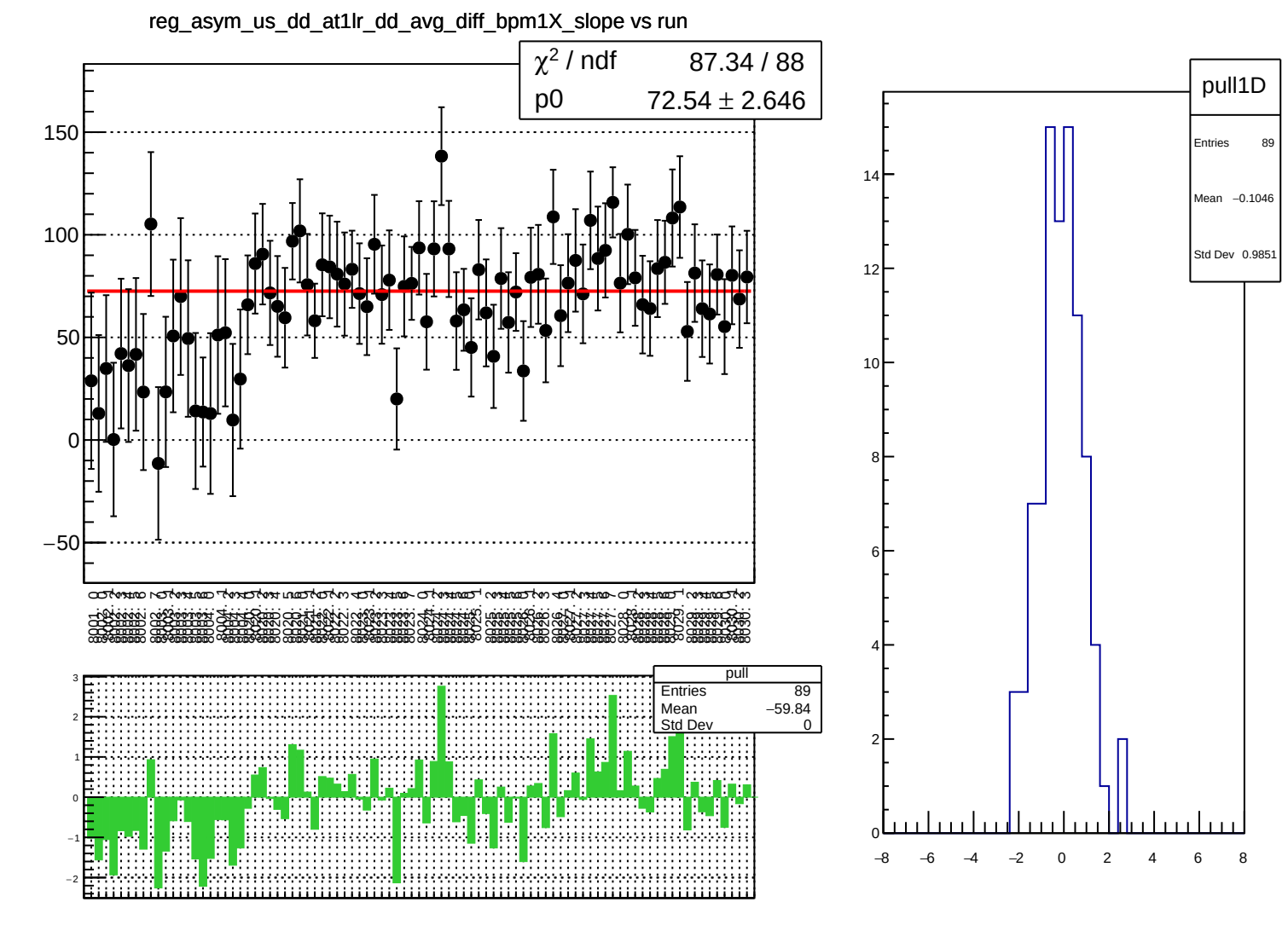

reg_asym_us_avg_atlr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.845 / 88
p0 −38.36 ± 7.339
50
0
−50
−100
−150
pull
Entries 89
Mean −8600
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 89
Mean 0.0002697
Std Dev 0.2563
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

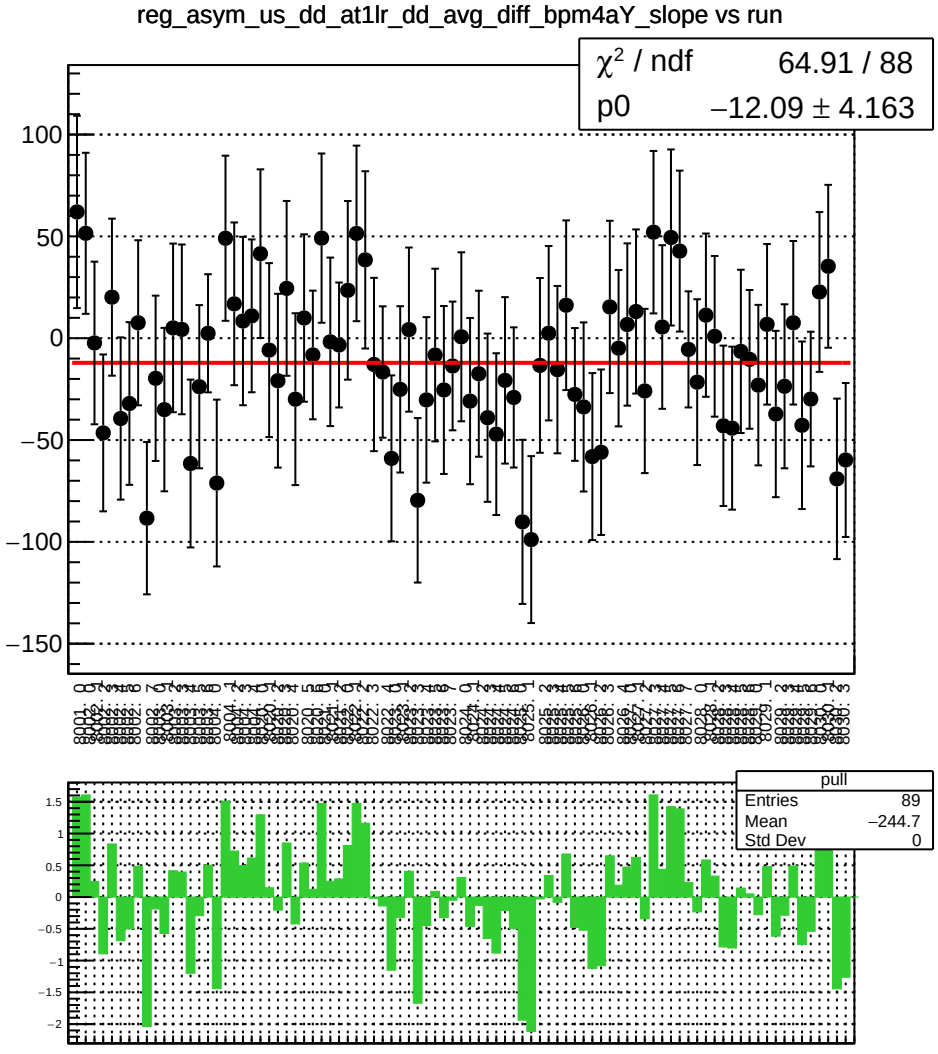

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 44.88 / 88
p0 −158.8 ± 4.9
pull
Entries 89
Mean −129.4
Std Dev 0
pull1D
Entries 89
Mean 0.07084
Std Dev 0.7065

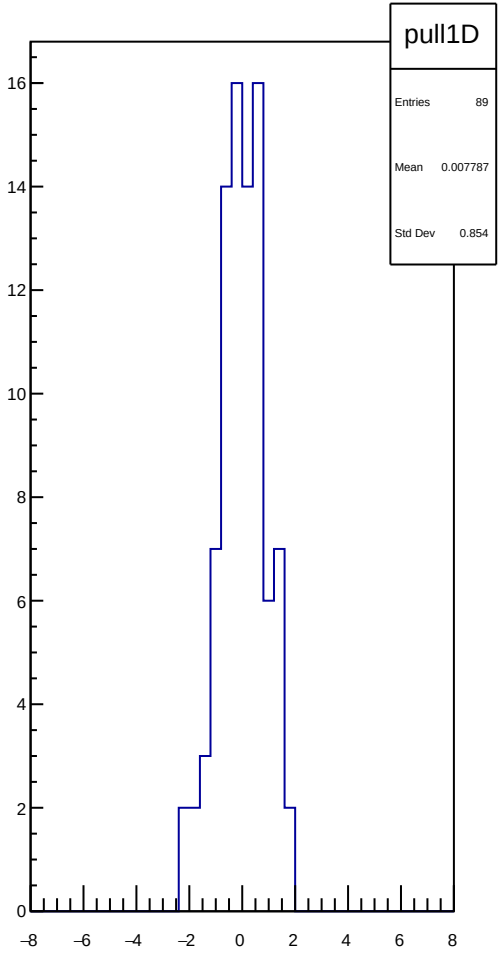

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.739 / 88
p0 0.4161 ± 7.898
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −1109
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

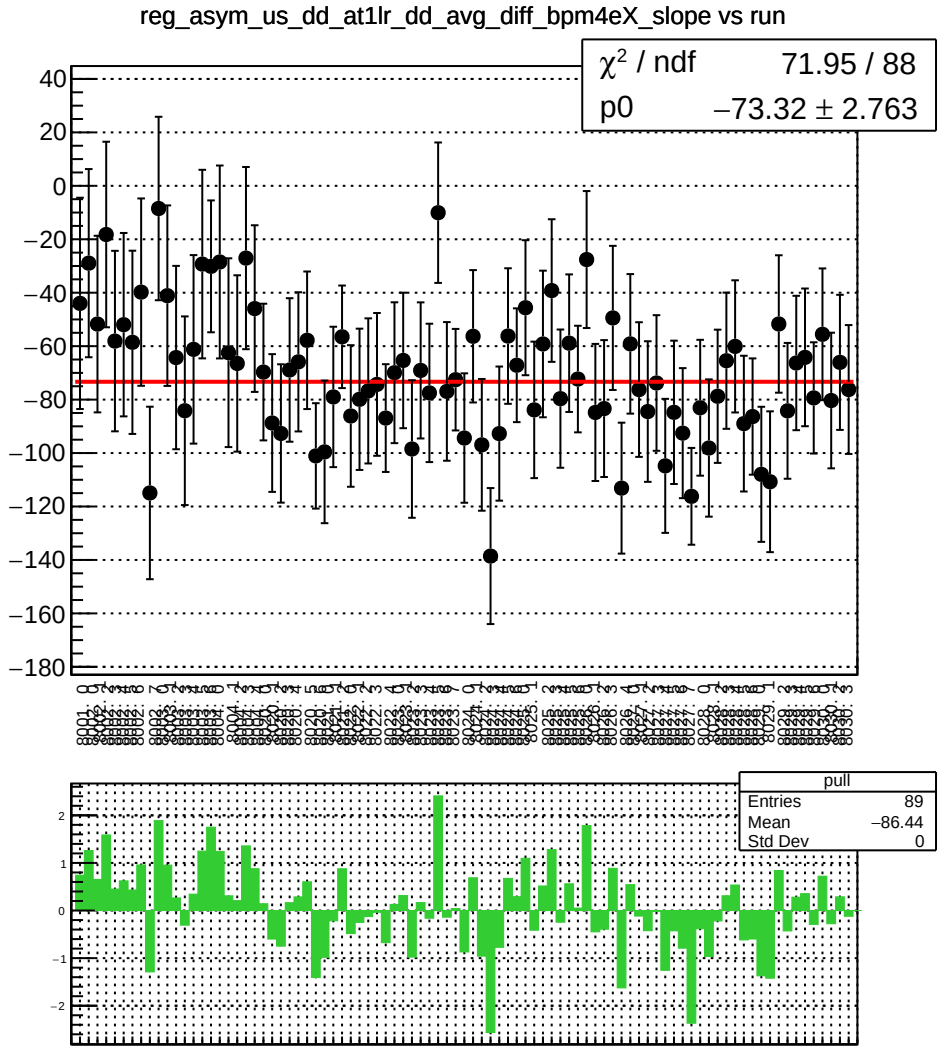

pull1D
Entries 89
Mean −0.001989
Std Dev 0.2539
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

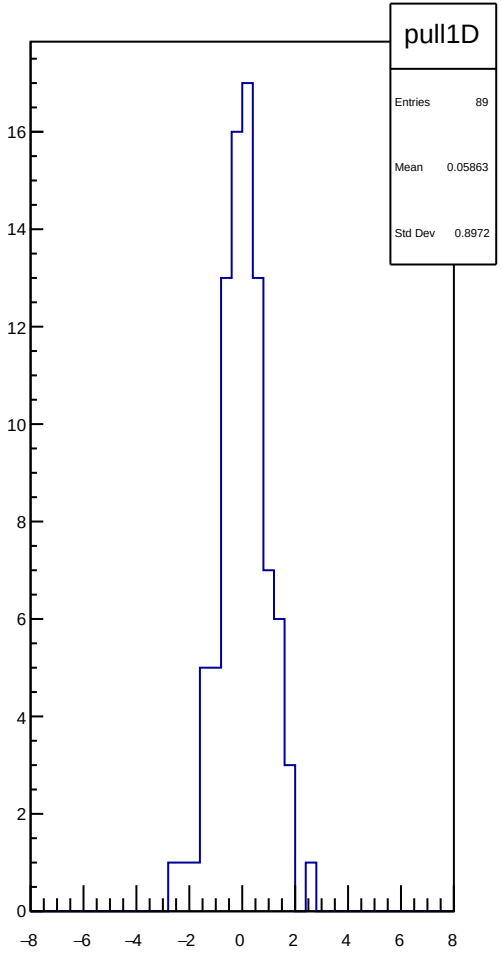

reg_asym_us_avg_atlr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 643.2 / 88
p0 110.9 ± 0.349
pull
Entries 89
Mean 99.32
Std Dev 0
pull1D
Entries 89
Mean 1.085
Std Dev 2.05

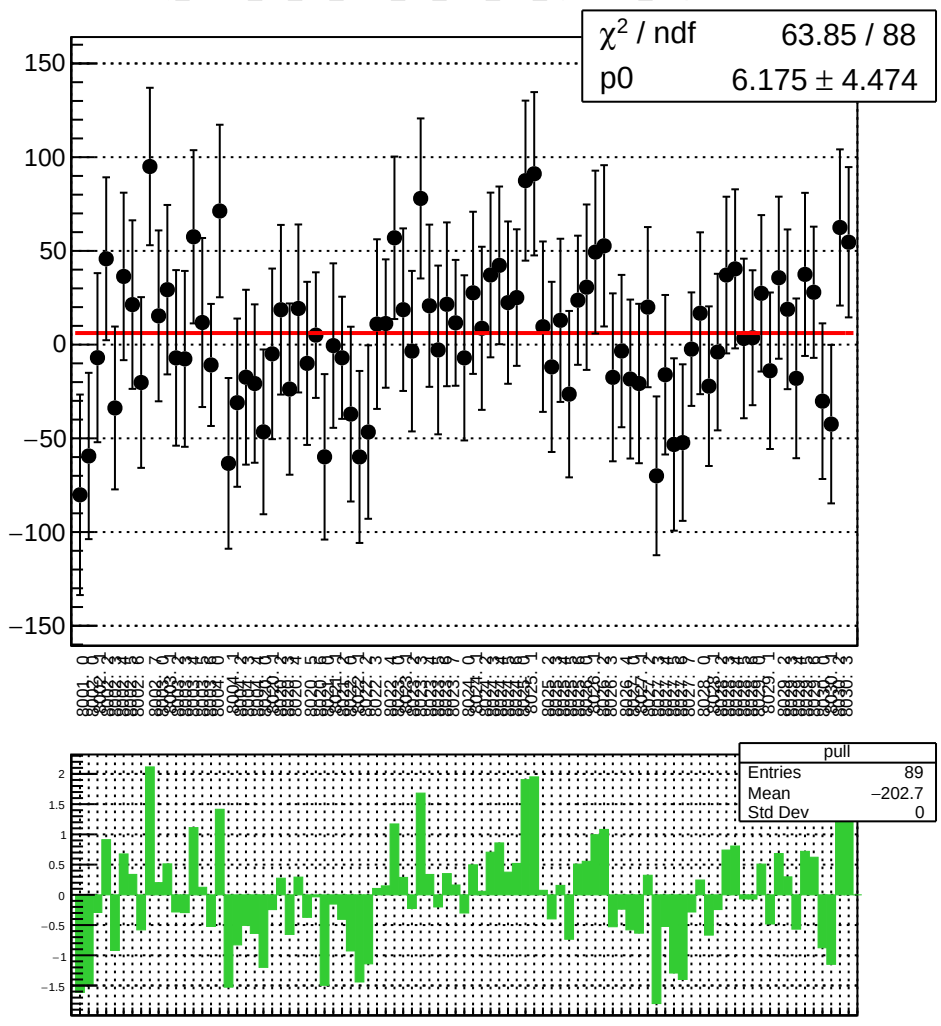

reg_asym_us_dd_at1lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 87.34 / 88
p0 72.54 ± 2.646
150
100
50
0
−50
pull
Entries 89
Mean −59.84
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.1046
Std Dev 0.9851
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

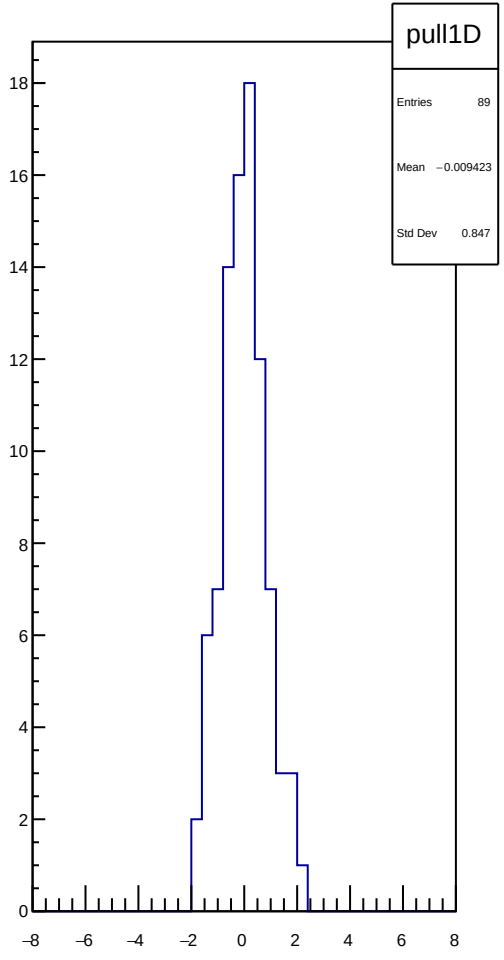

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 64.91 / 88
p0 −12.09 ± 4.163
pull
Entries 89
Mean −244.7
Std Dev 0

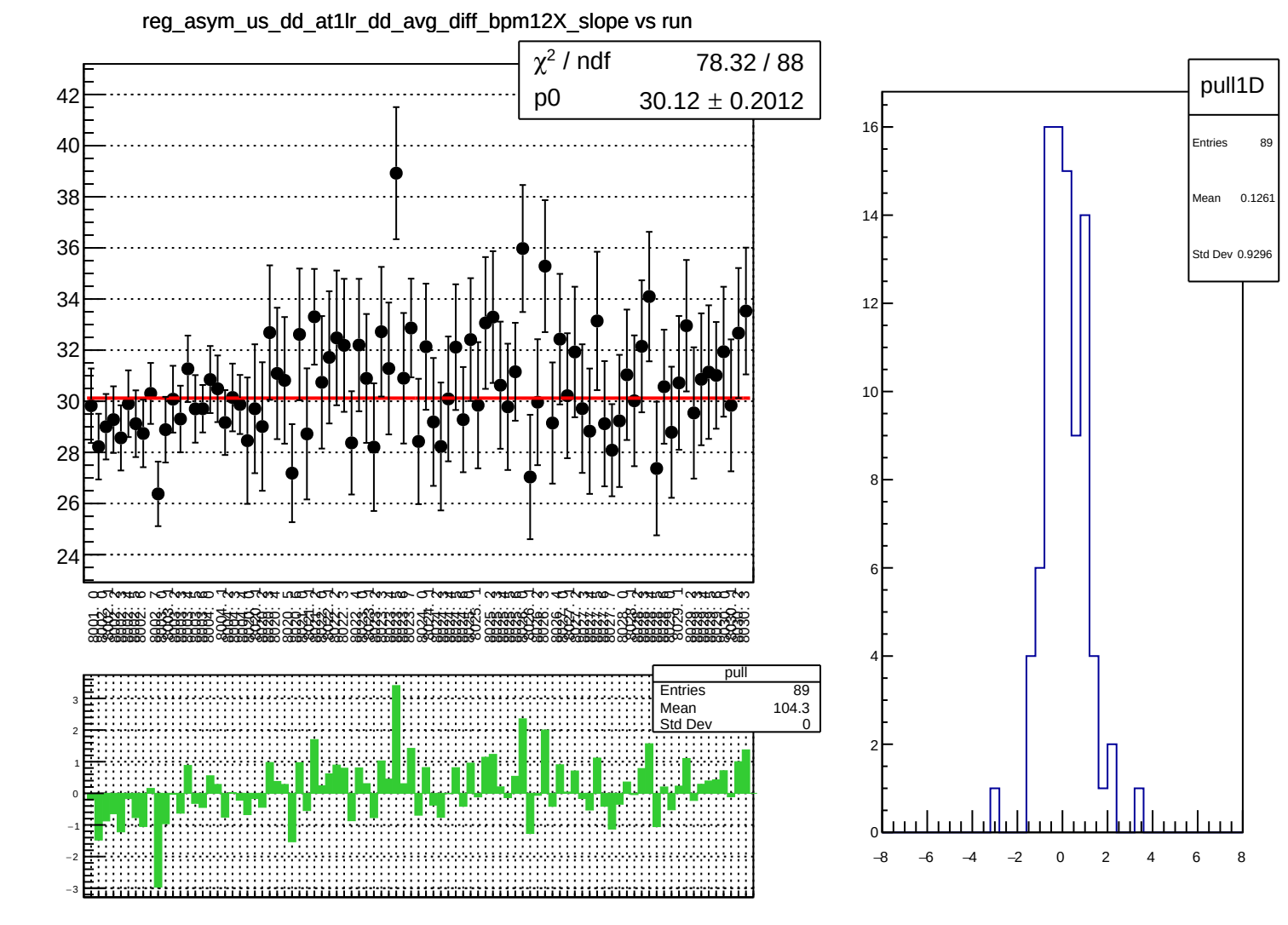

pull1D
Entries 89
Mean 0.007787
Std Dev 0.854

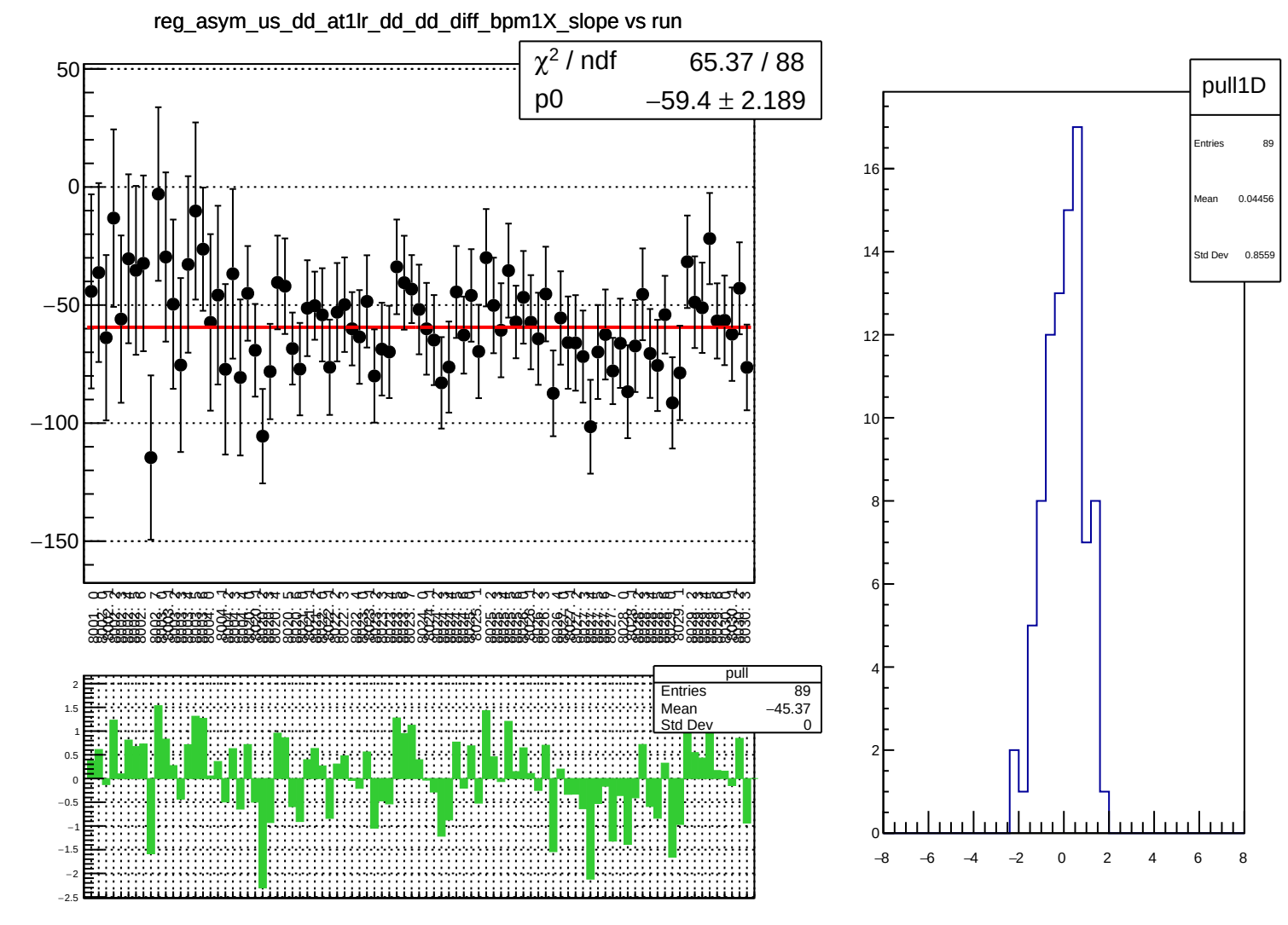

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 71.95 / 88
p0 −73.32 ± 2.763
pull
Entries 89
Mean −86.44
Std Dev 0

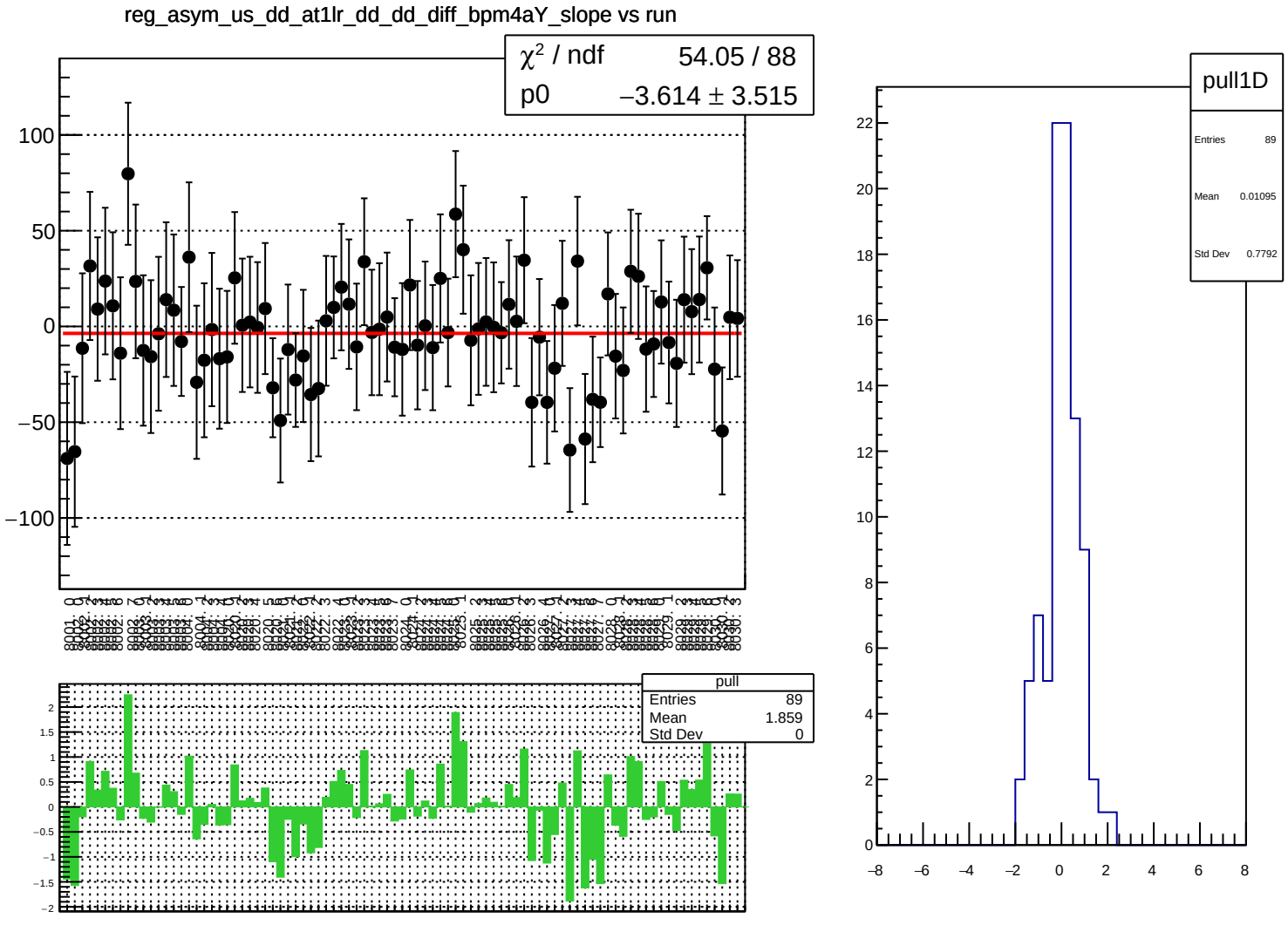

pull1D
Entries 89
Mean 0.05863
Std Dev 0.8972

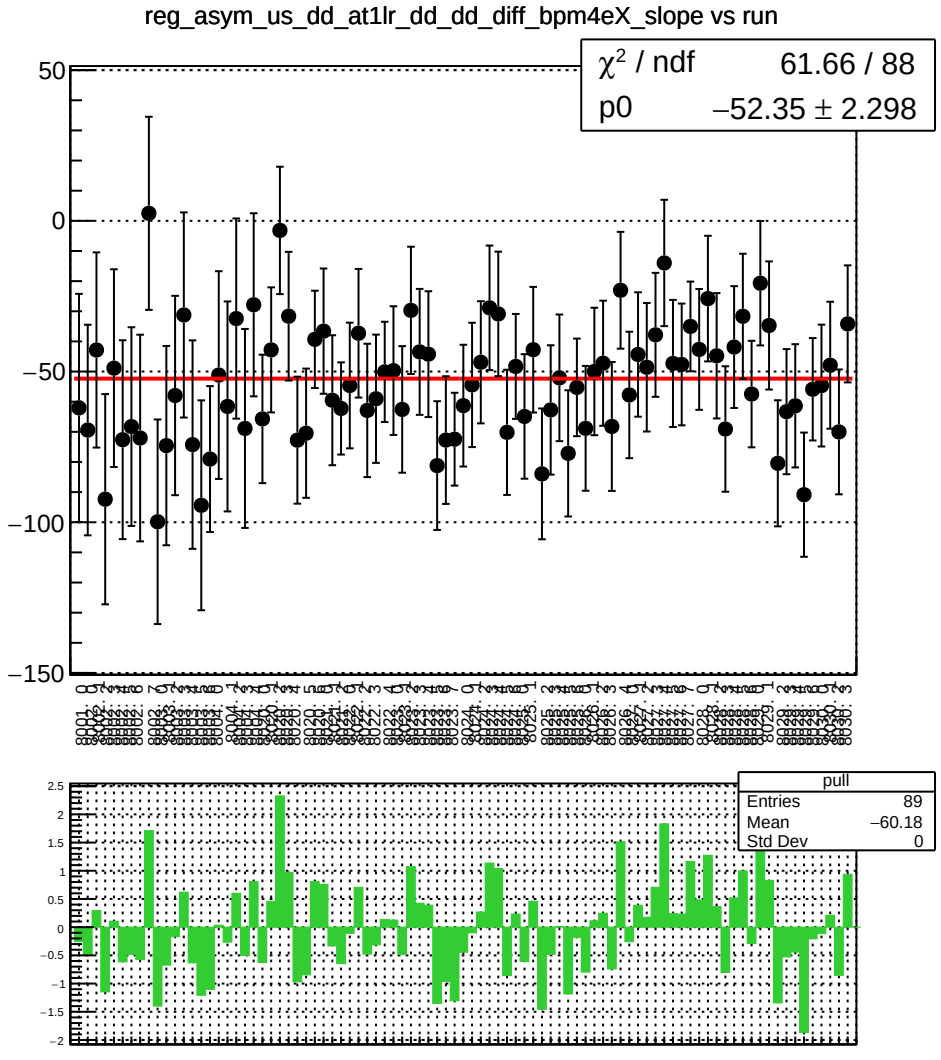

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 63.85 / 88
p0 6.175 ± 4.474
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −202.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

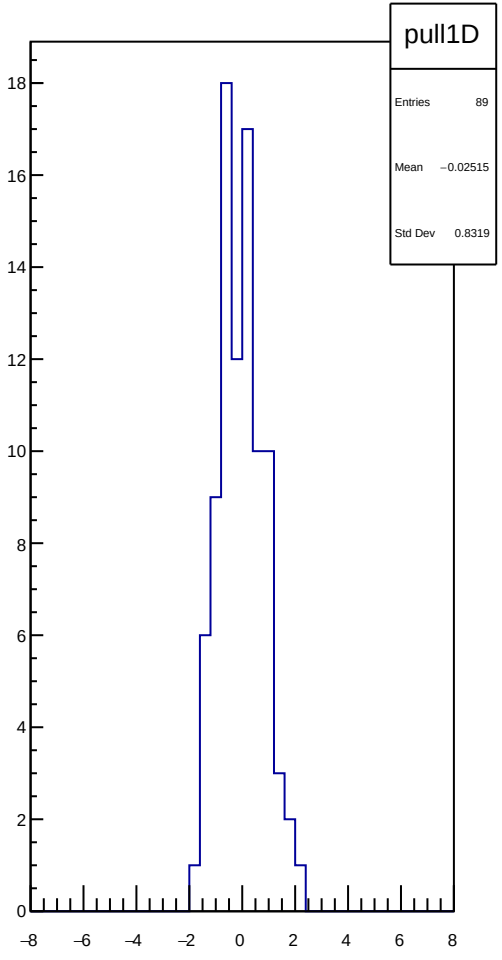

pull1D
Entries 89
Mean −0.009423
Std Dev 0.847
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

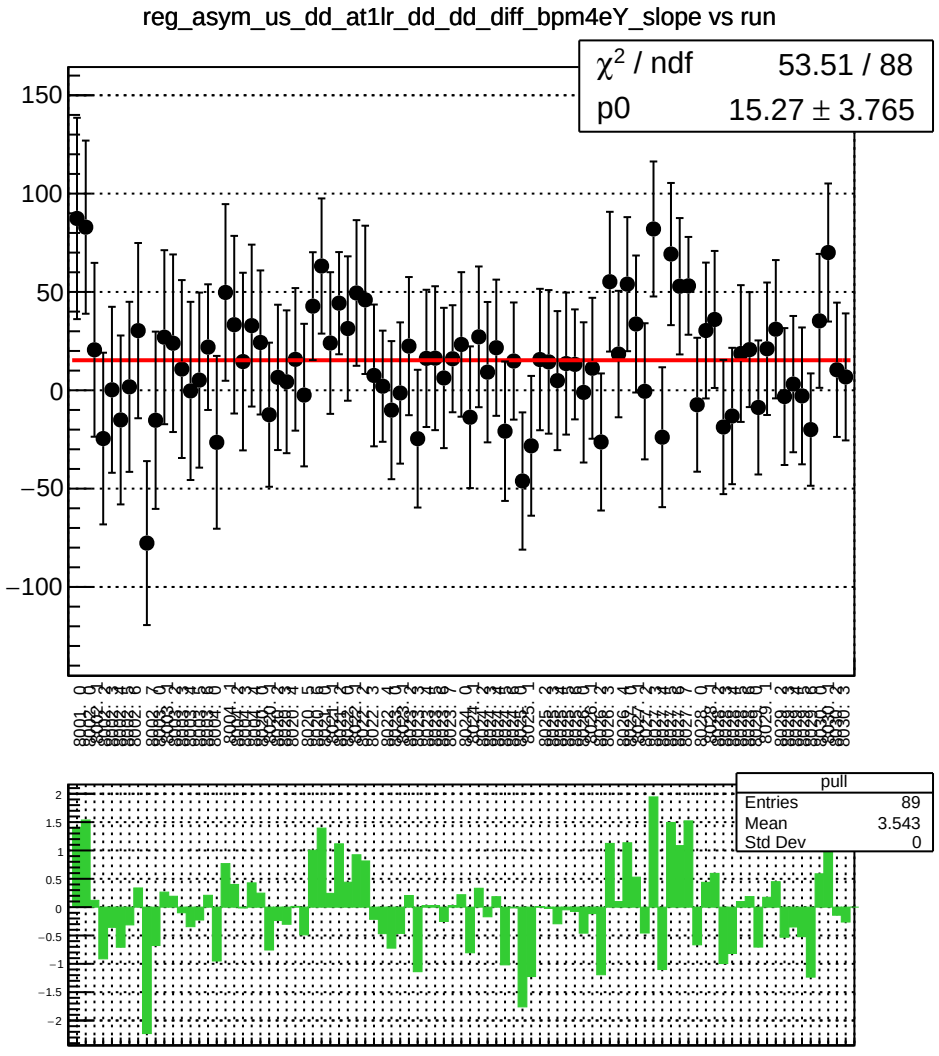

reg_asym_us_dd_at1lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 78.32 / 88
p0 30.12 ± 0.2012
pull
Entries 89
Mean 104.3
Std Dev 0
pull1D
Entries 89
Mean 0.1261
Std Dev 0.9296

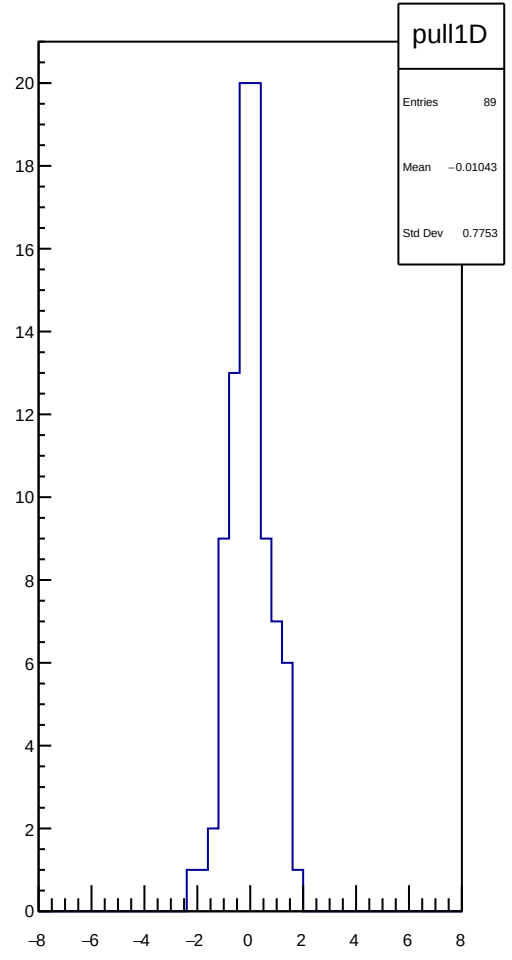

reg_asym_us_dd_at1lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 65.37 / 88
p0 −59.4 ± 2.189
50
0
−50
−100
−150
pull
Entries 89
Mean −45.37
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 89
Mean 0.04456
Std Dev 0.8559
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

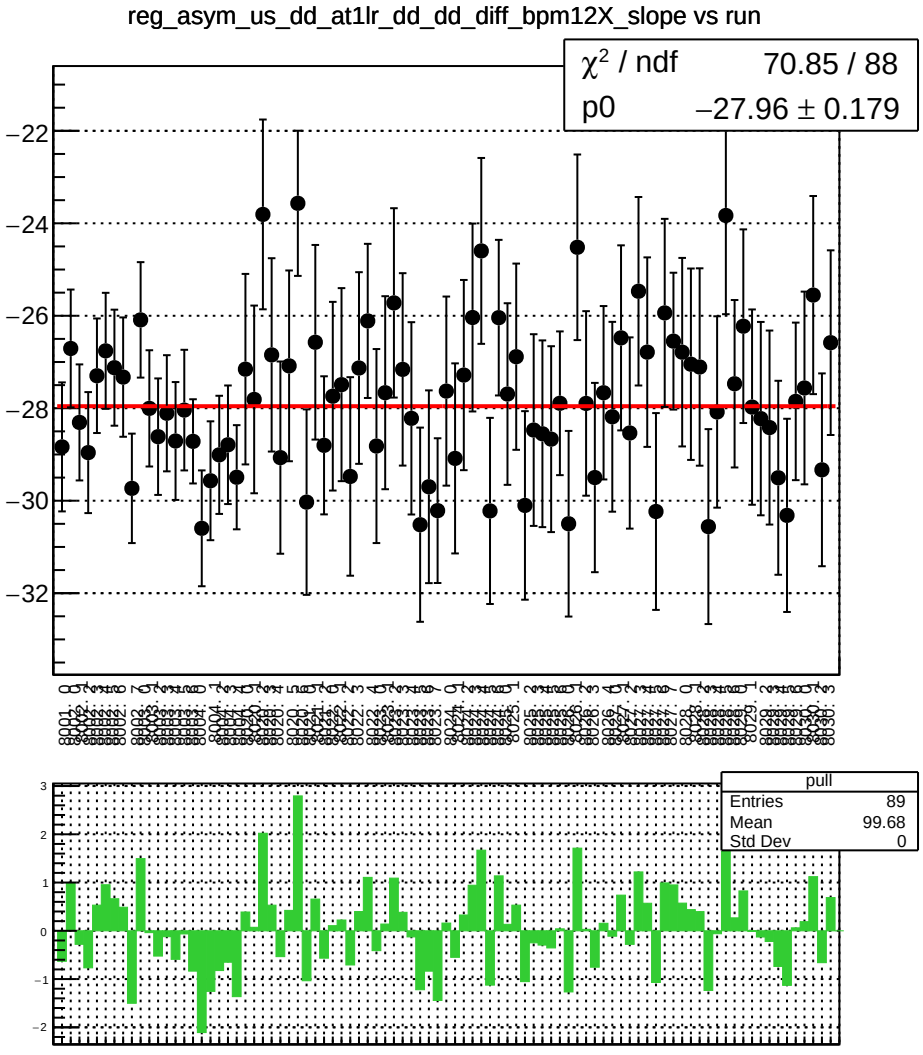

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 54.05 / 88
p0 −3.614 ± 3.515
pull
Entries 89
Mean 1.859
Std Dev 0
pull1D
Entries 89
Mean 0.01095
Std Dev 0.7792

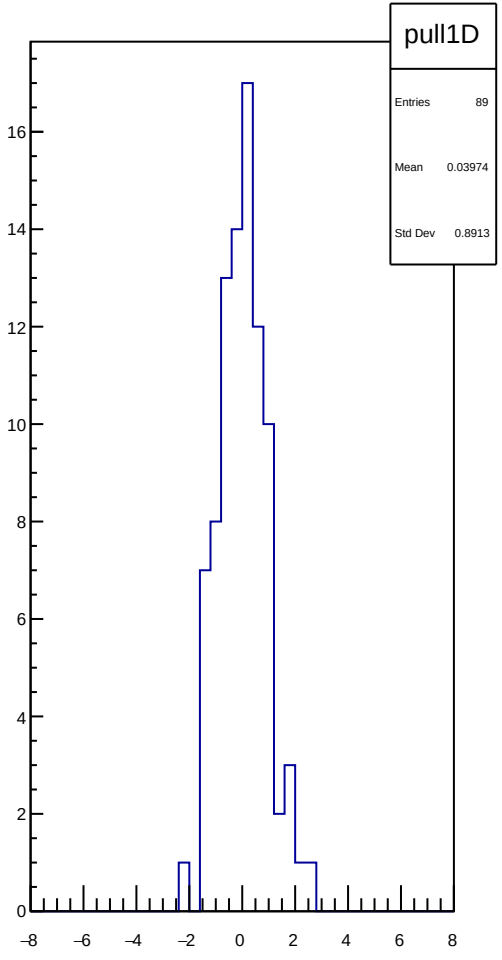

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 61.66 / 88
p0 −52.35 ± 2.298
pull
Entries 89
Mean −60.18
Std Dev 0

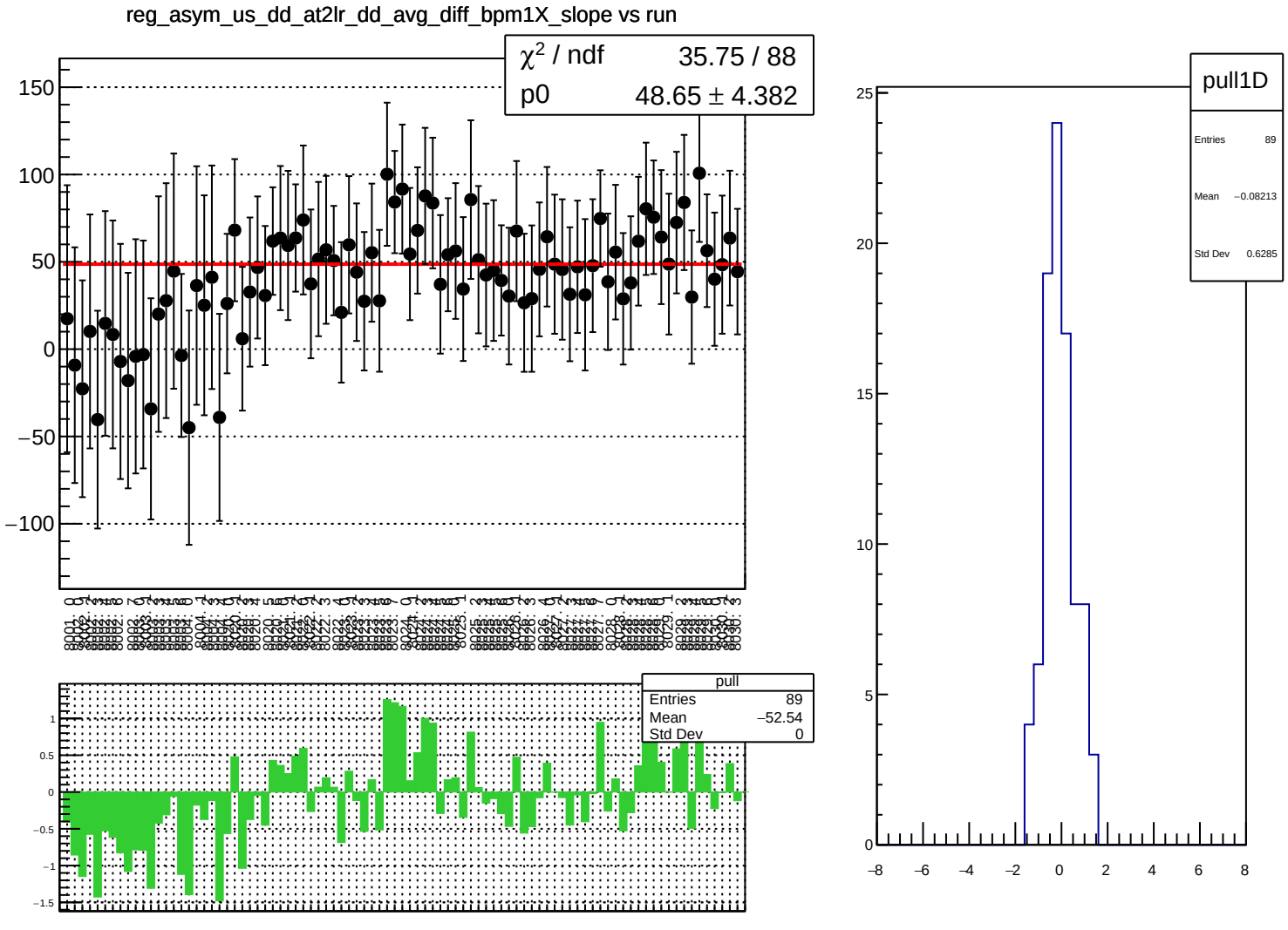

pull1D
Entries 89
Mean −0.02515
Std Dev 0.8319

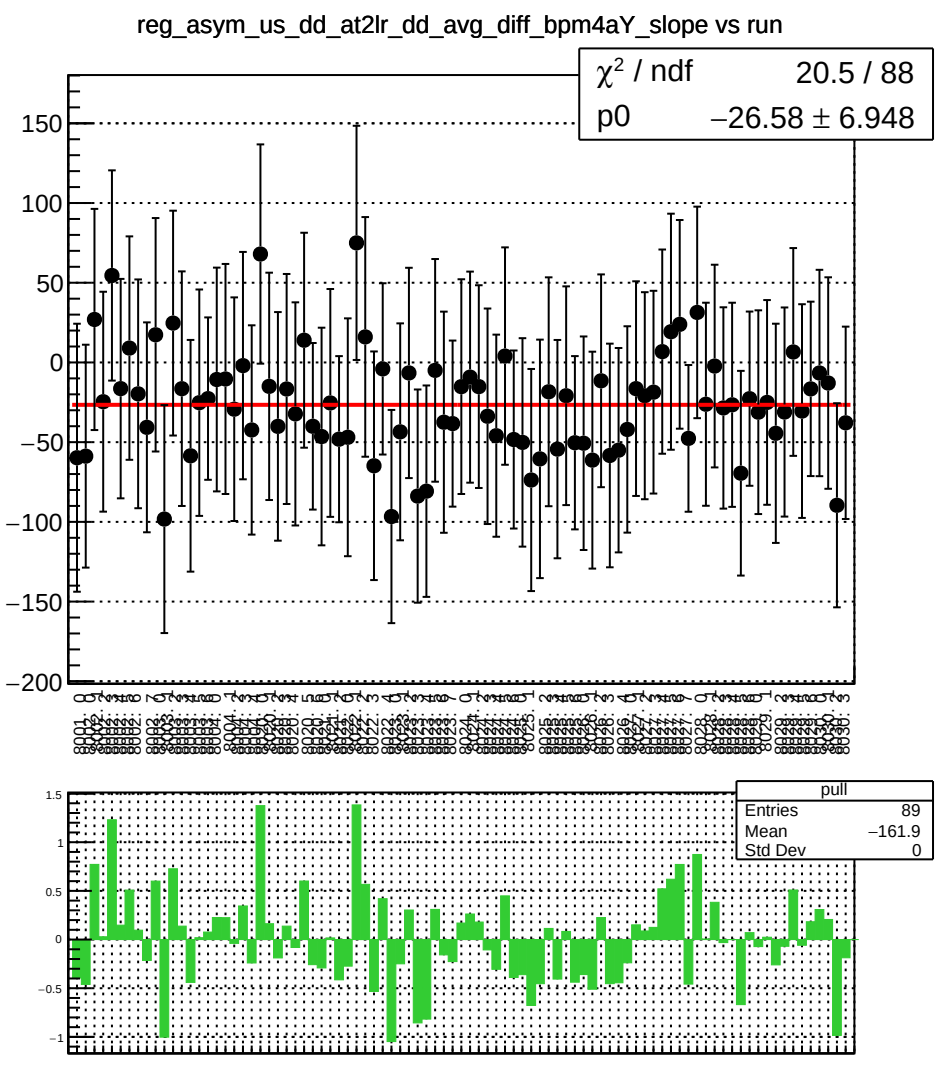

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 53.51 / 88
p0 15.27 ± 3.765
150
100
50
0
−50
−100
pull
Entries 89
Mean 3.543
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

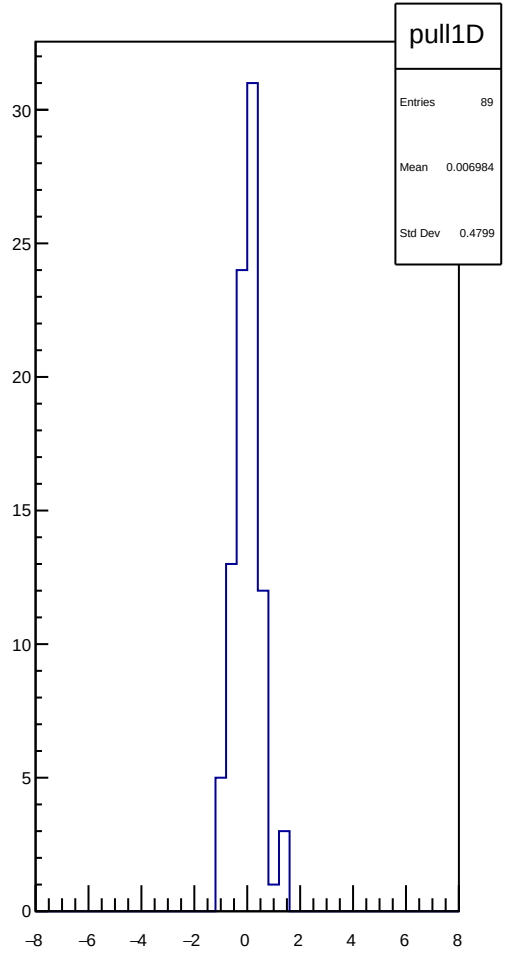

pull1D
Entries 89
Mean −0.01043
Std Dev 0.7753
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

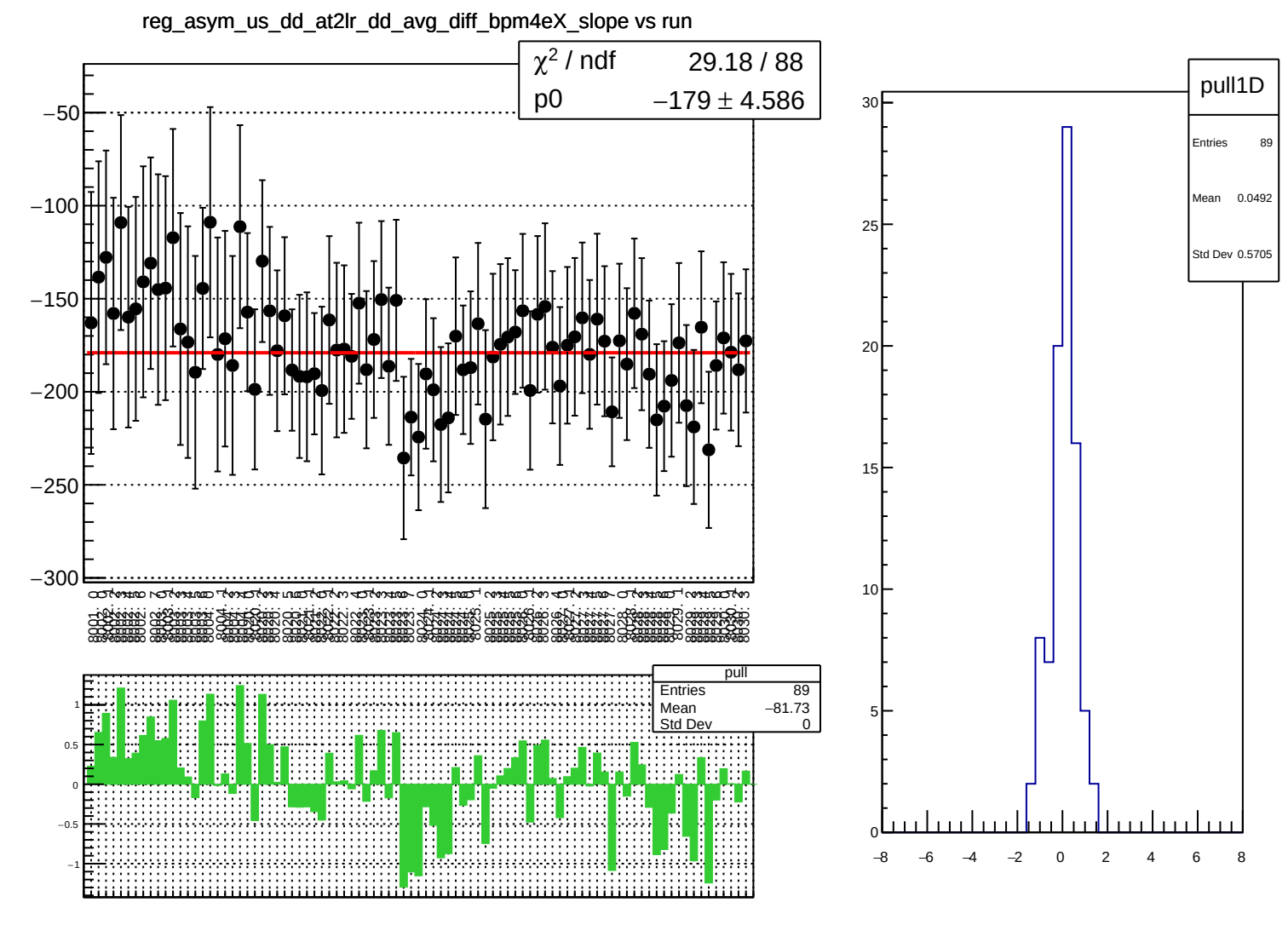

reg_asym_us_dd_at1lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 70.85 / 88
p0 −27.96 ± 0.179
pull
Entries 89
Mean 99.68
Std Dev 0

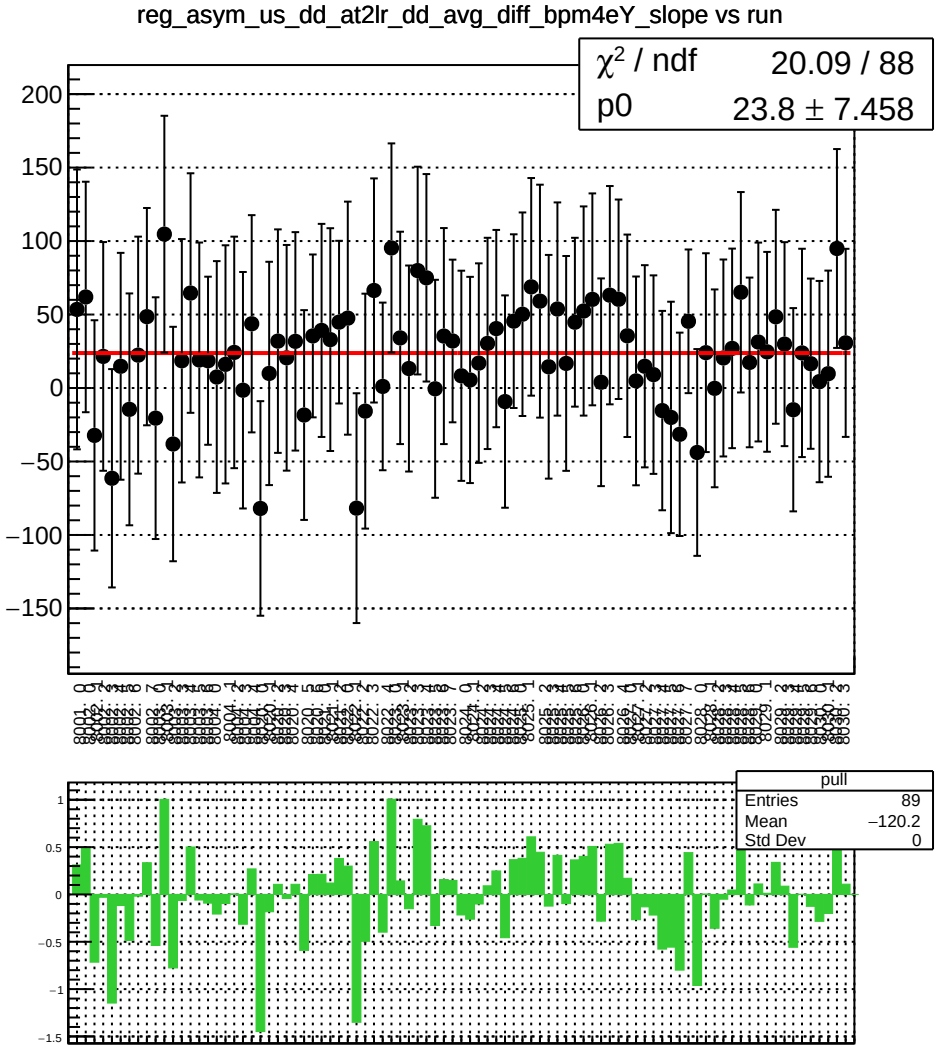

pull1D
Entries 89
Mean 0.03974
Std Dev 0.8913

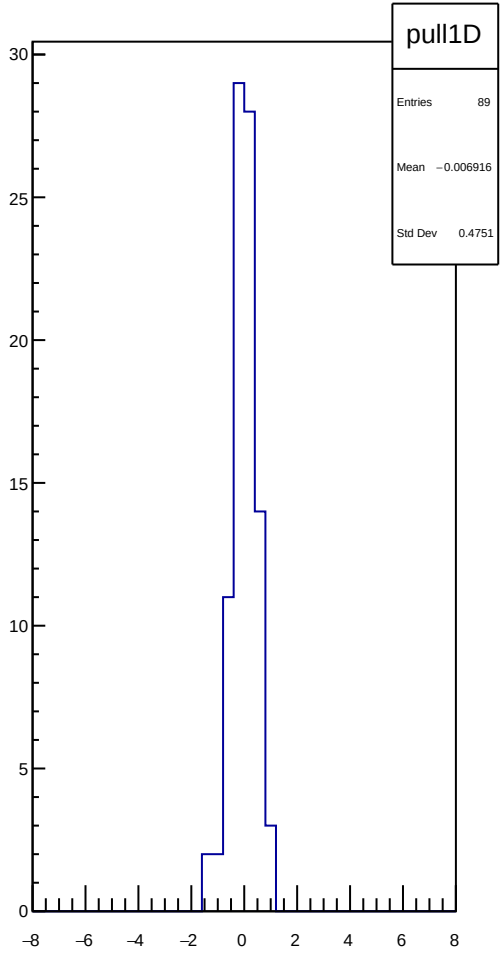

reg_asym_us_dd_at2lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 35.75 / 88
p0 48.65 ± 4.382
150
100
50
0
−50
−100
pull
Entries 89
Mean −52.54
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 89
Mean −0.08213
Std Dev 0.6285
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

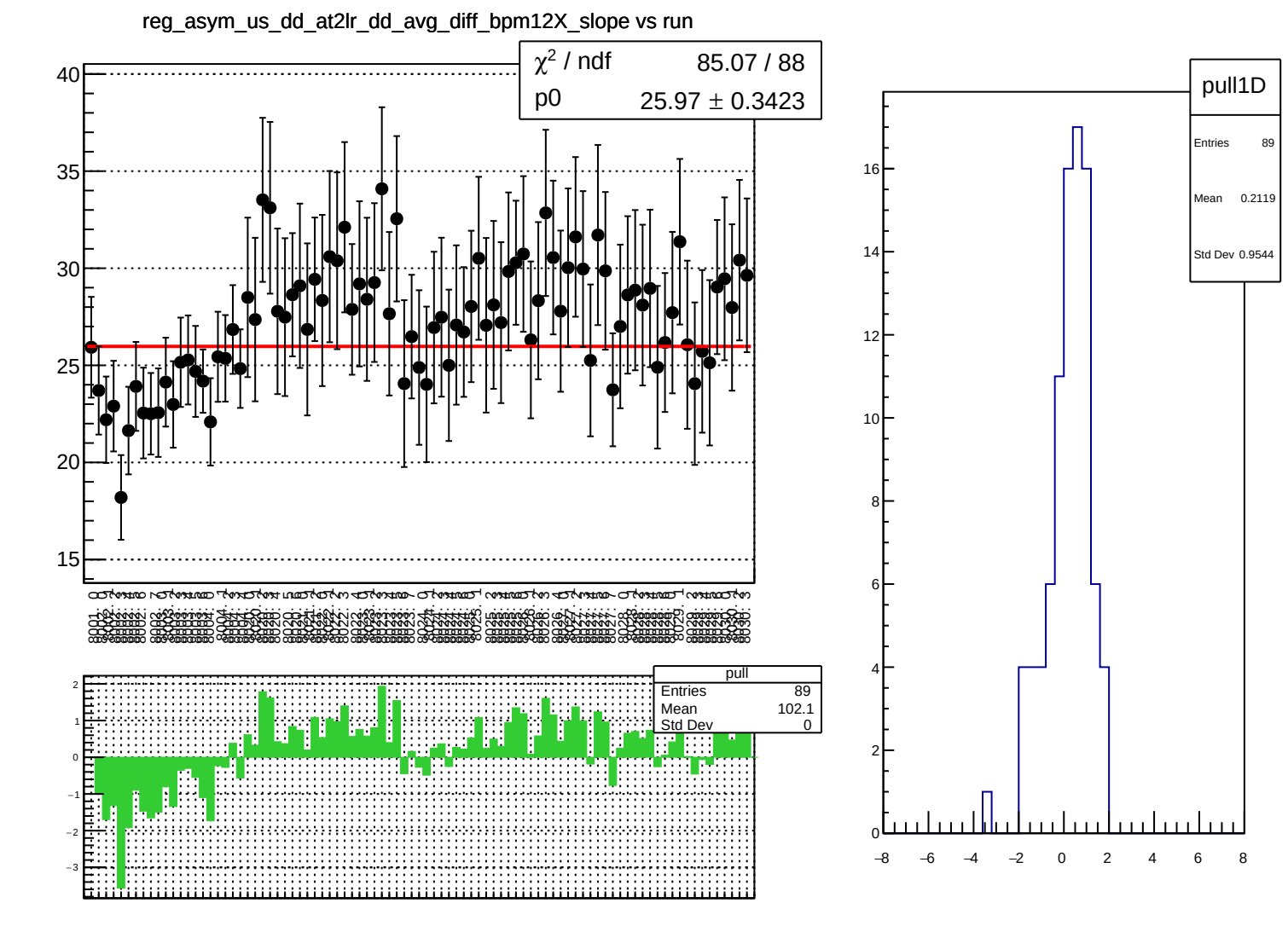

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 20.5 / 88
p0 −26.58 ± 6.948
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean −161.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1

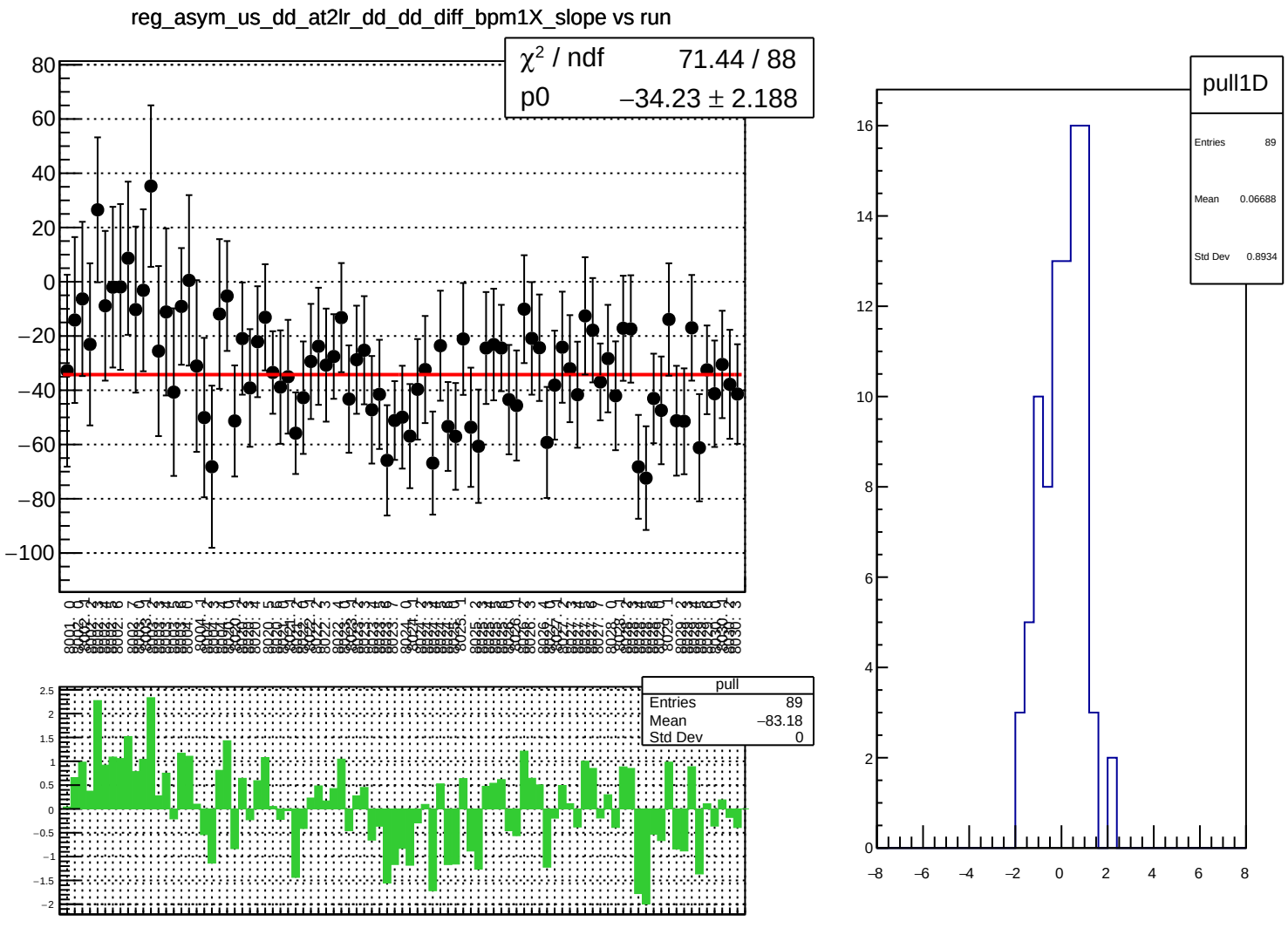

pull1D
Entries 89
Mean 0.006984
Std Dev 0.4799
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

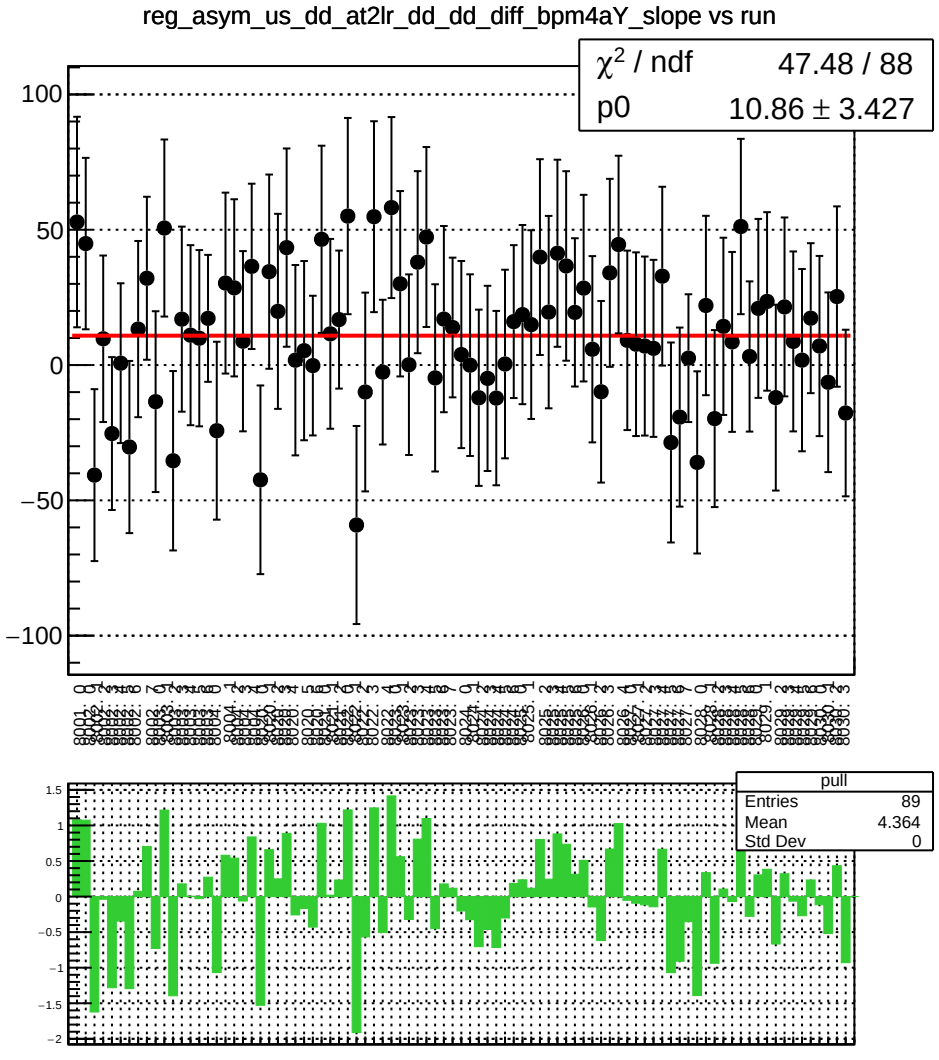

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 29.18 / 88
p0 −179 ± 4.586
−50
−100
−150
−200
−250
−300
pull
Entries 89
Mean −81.73
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 89
Mean 0.0492
Std Dev 0.5705
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

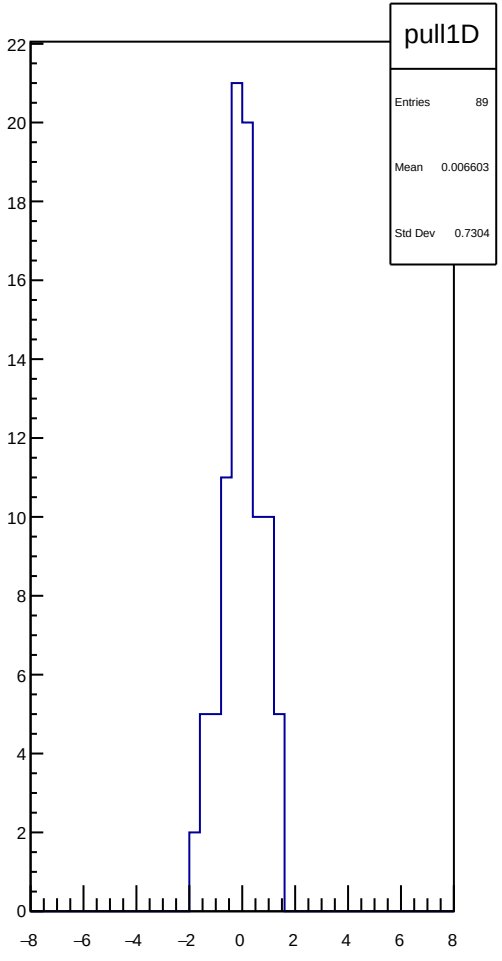

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 20.09 / 88
p0 23.8 ± 7.458
pull
Entries 89
Mean −120.2
Std Dev 0

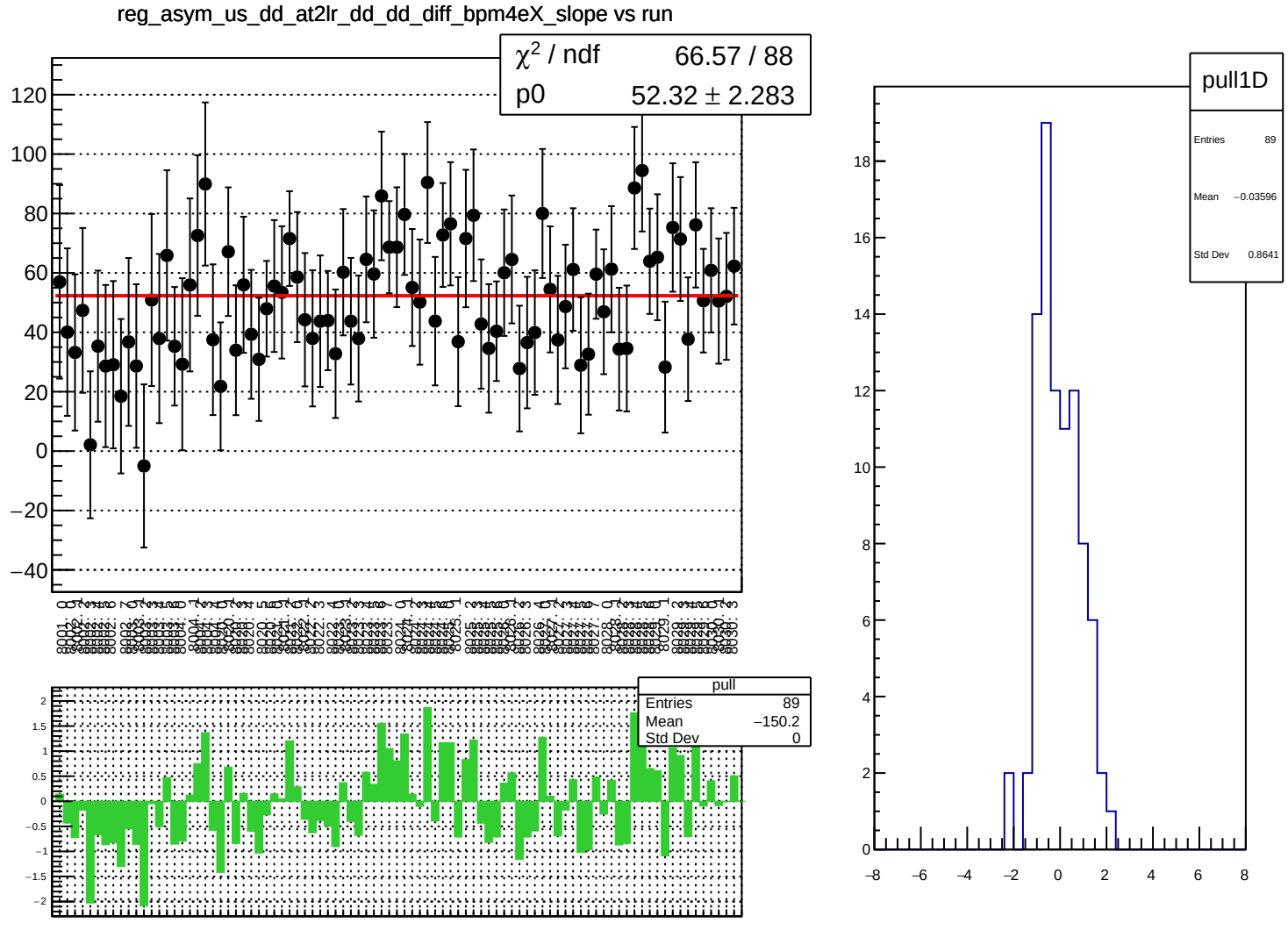

pull1D
Entries 89
Mean −0.006916
Std Dev 0.4751

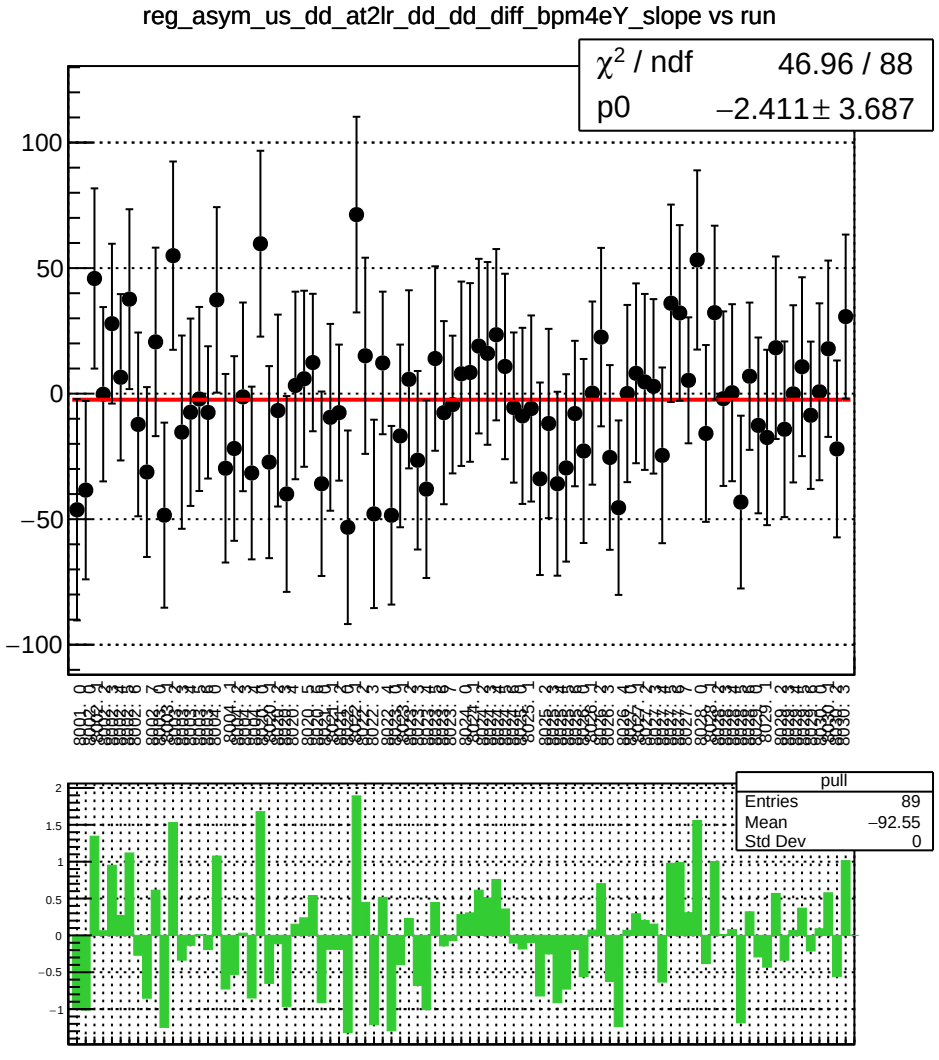

reg_asym_us_dd_at2lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 85.07 / 88
p0 25.97 ± 0.3423
pull
Entries 89
Mean 102.1
Std Dev 0
pull1D
Entries 89
Mean 0.2119
Std Dev 0.9544

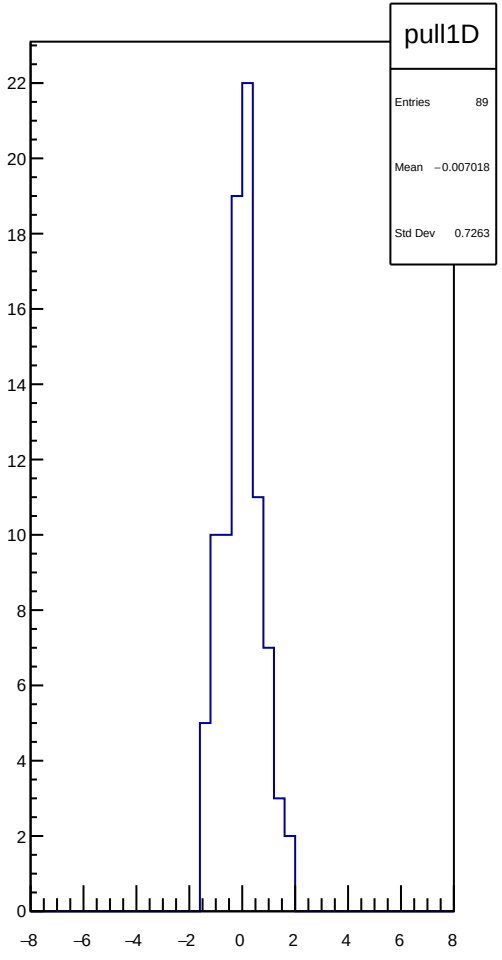

reg_asym_us_dd_at2lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 71.44 / 88
p0 −34.23 ± 2.188
pull
Entries 89
Mean −83.18
Std Dev 0
pull1D
Entries 89
Mean 0.06688
Std Dev 0.8934

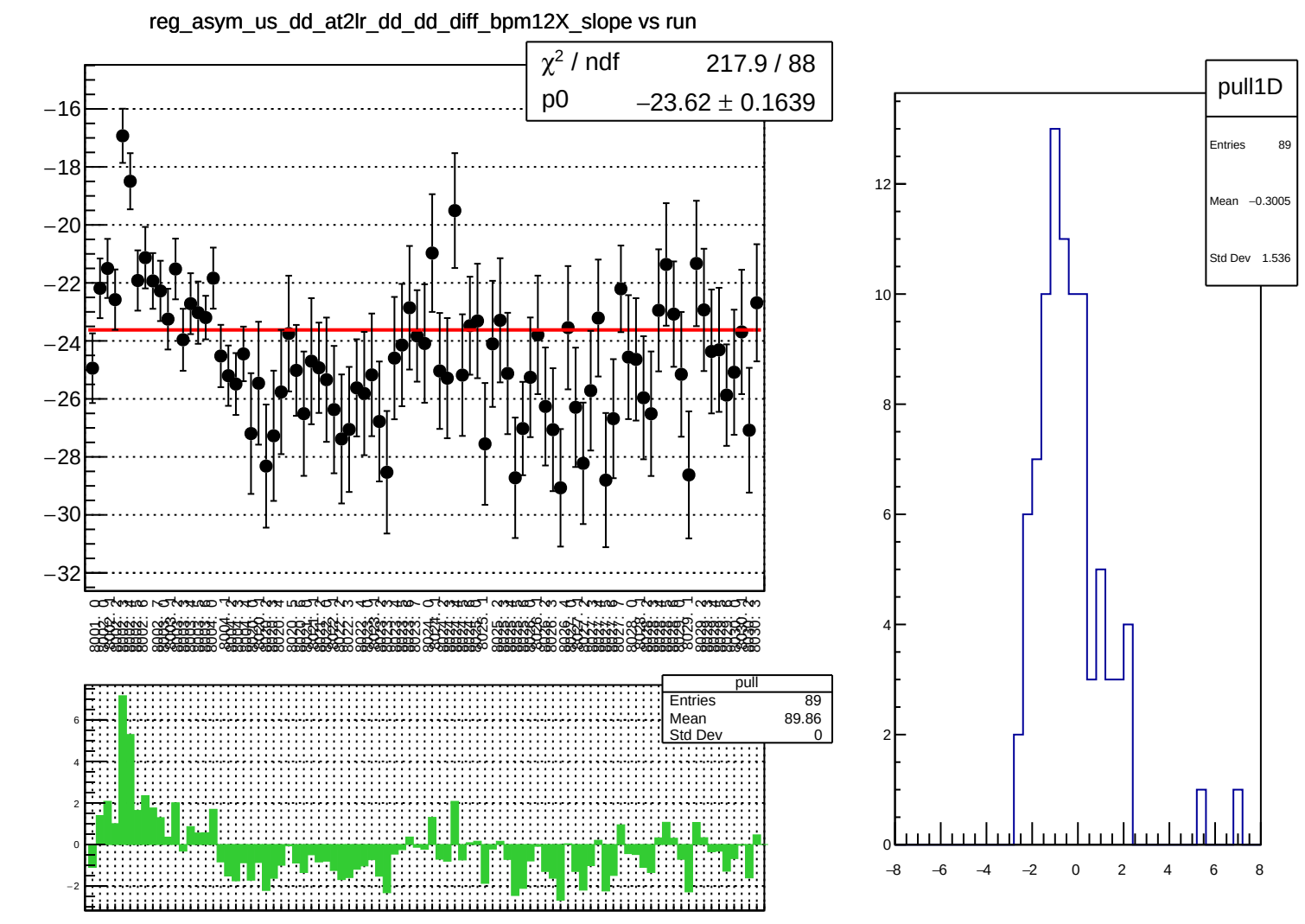

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 47.48 / 88
p0 10.86 ± 3.427
pull
Entries 89
Mean 4.364
Std Dev 0

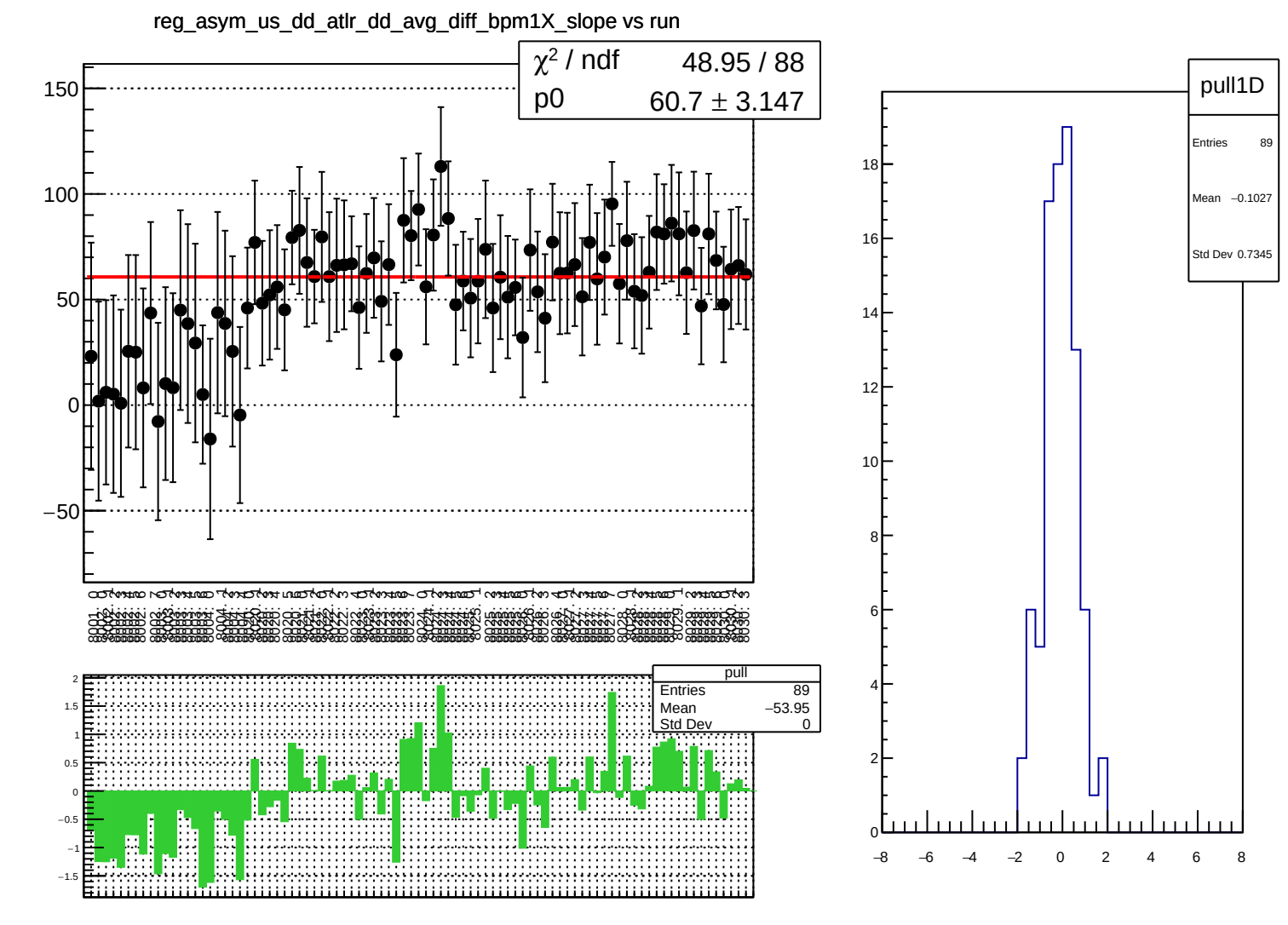

pull1D
Entries 89
Mean 0.006603
Std Dev 0.7304

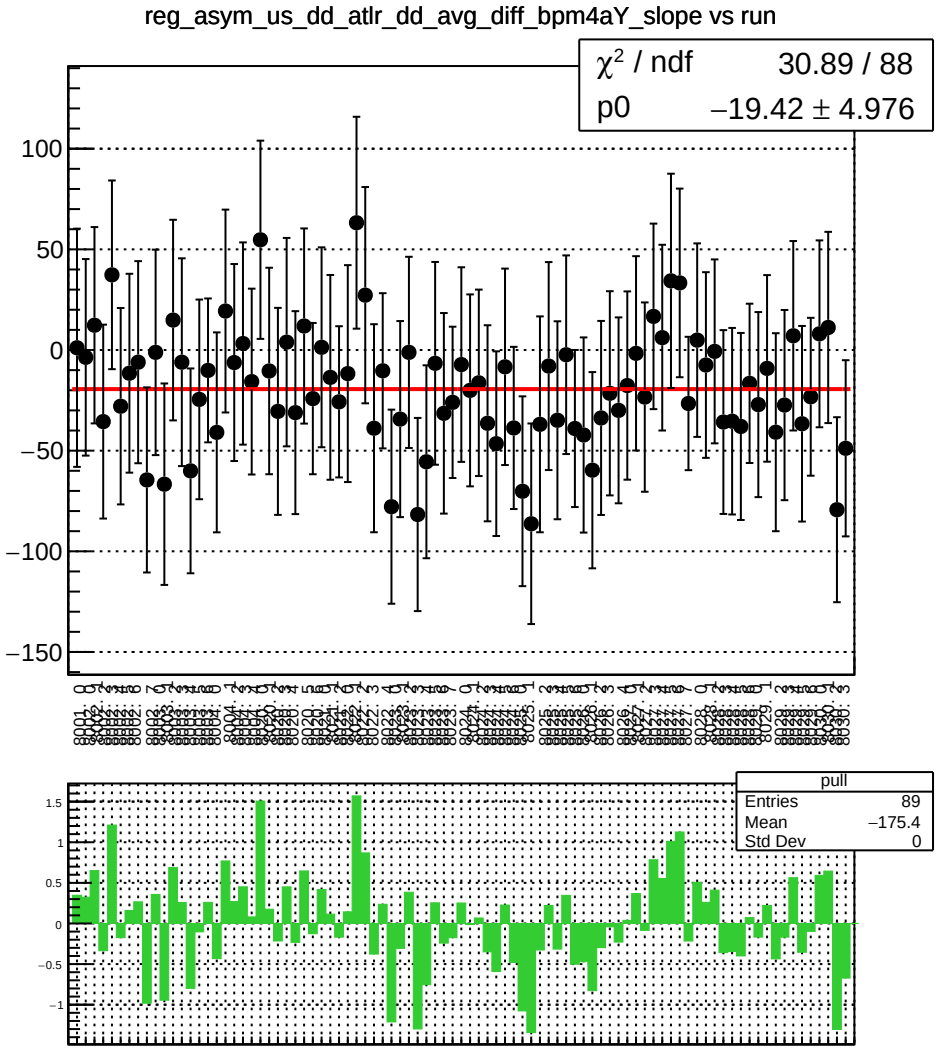

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 66.57 / 88
p0 52.32 ± 2.283
pull
Entries 89
Mean −150.2
Std Dev 0
pull1D
Entries 89
Mean −0.03596
Std Dev 0.8641

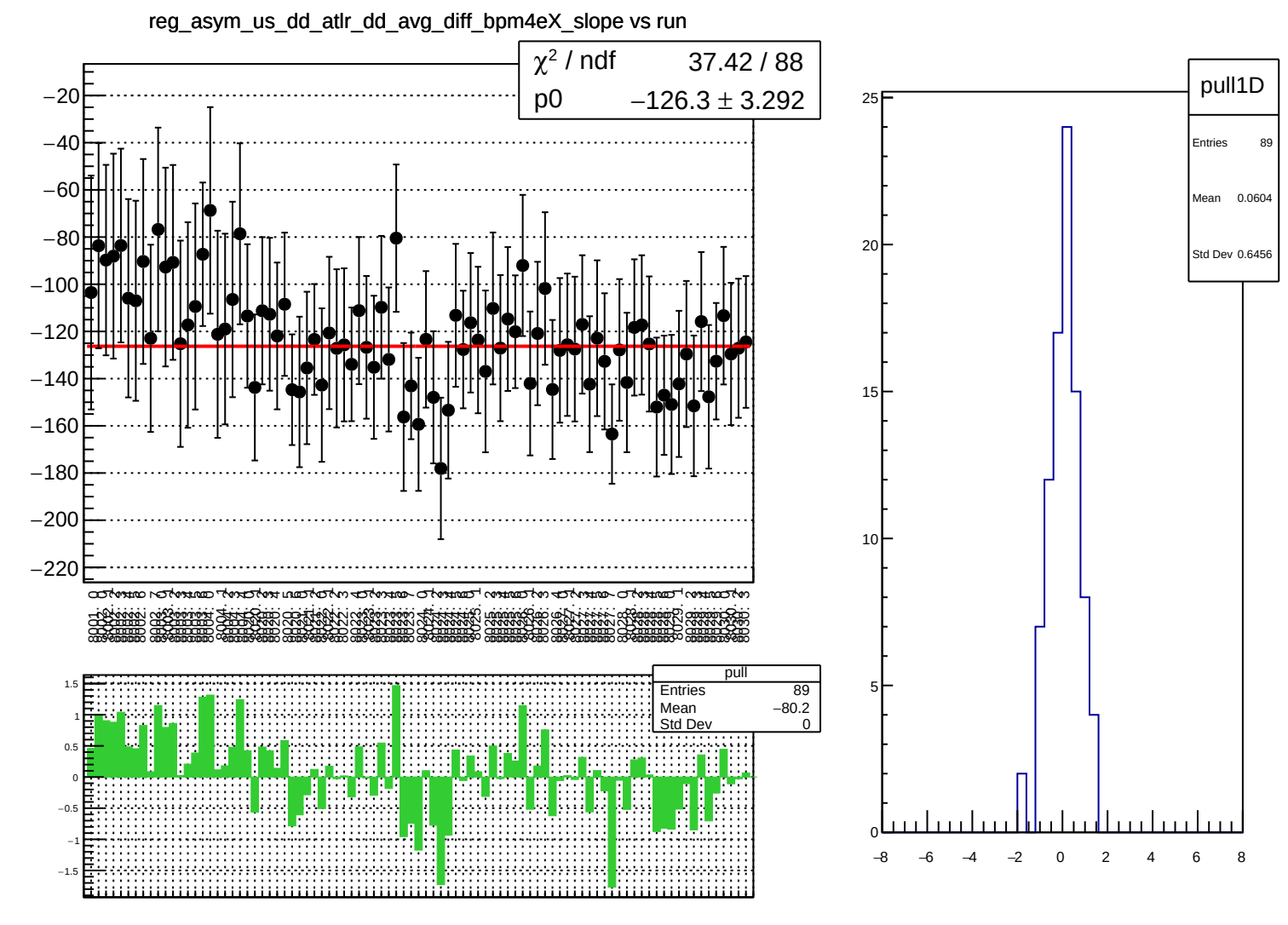

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 46.96 / 88
p0 −2.411 ± 3.687
100
50
0
−50
−100
pull
Entries 89
Mean −92.55
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

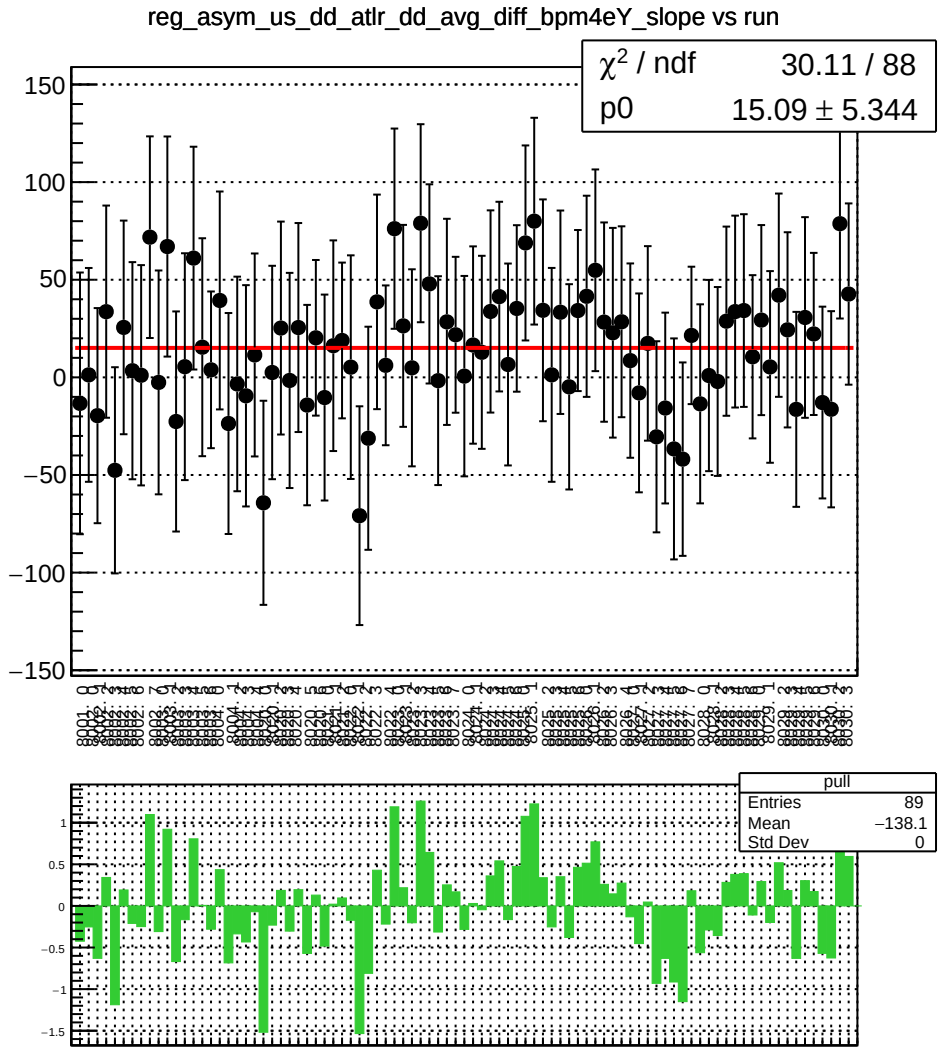

pull1D
Entries 89
Mean −0.007018
Std Dev 0.7263
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

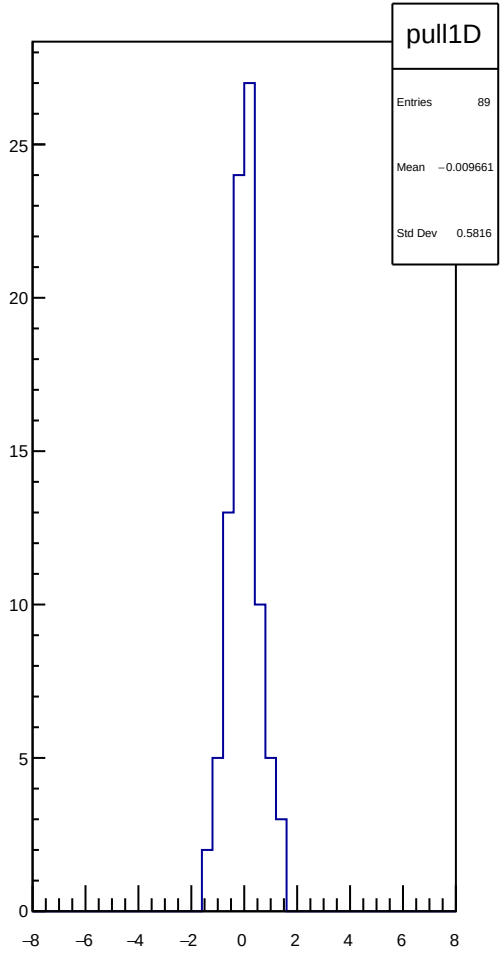

reg_asym_us_dd_at2lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 217.9 / 88
p0 −23.62 ± 0.1639
pull
Entries 89
Mean 89.86
Std Dev 0
pull1D
Entries 89
Mean −0.3005
Std Dev 1.536

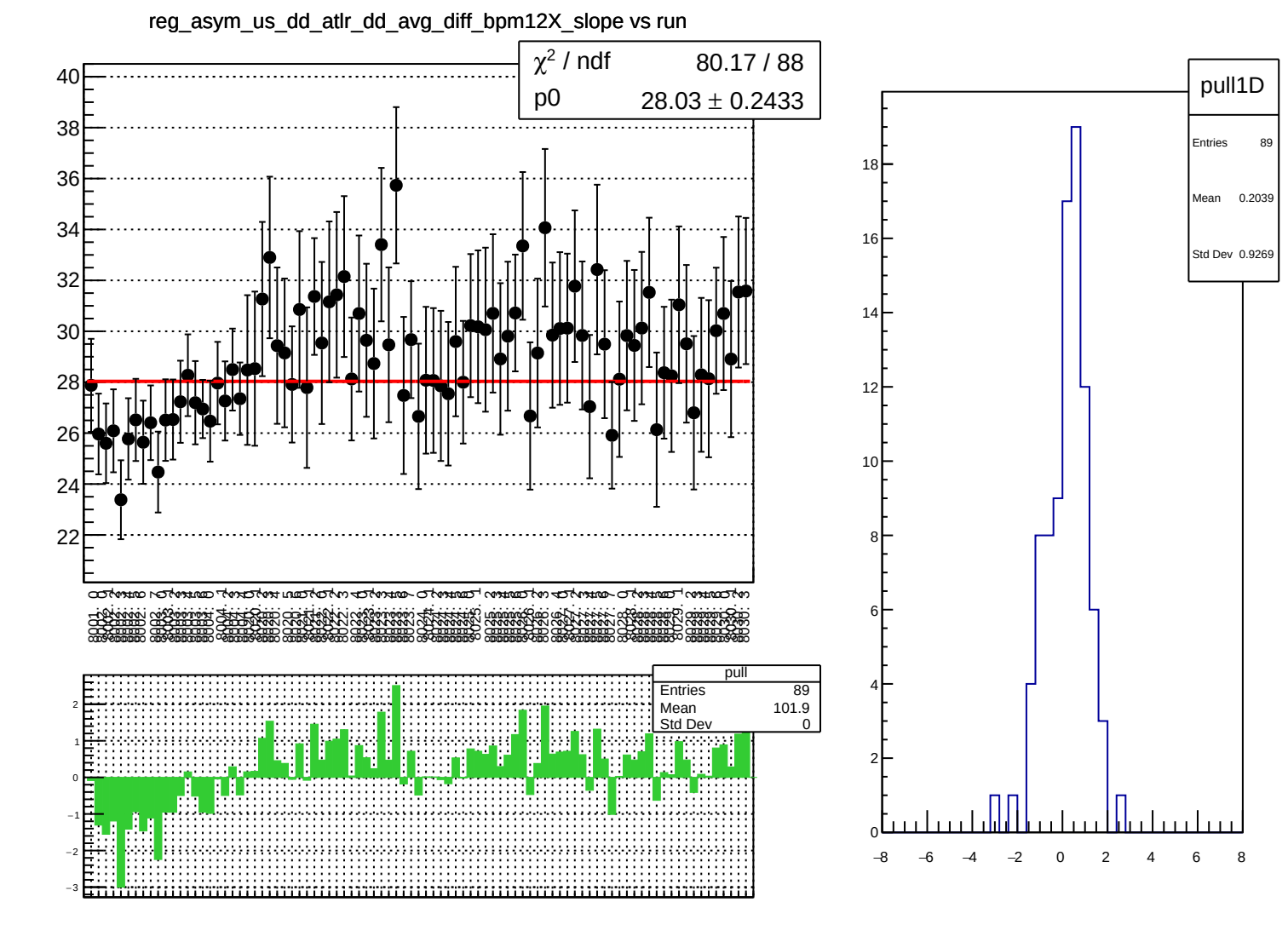

reg_asym_us_dd_atlr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 48.95 / 88
p0 60.7 ± 3.147
150
100
50
0
−50
pull
Entries 89
Mean −53.95
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 89
Mean −0.1027
Std Dev 0.7345
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

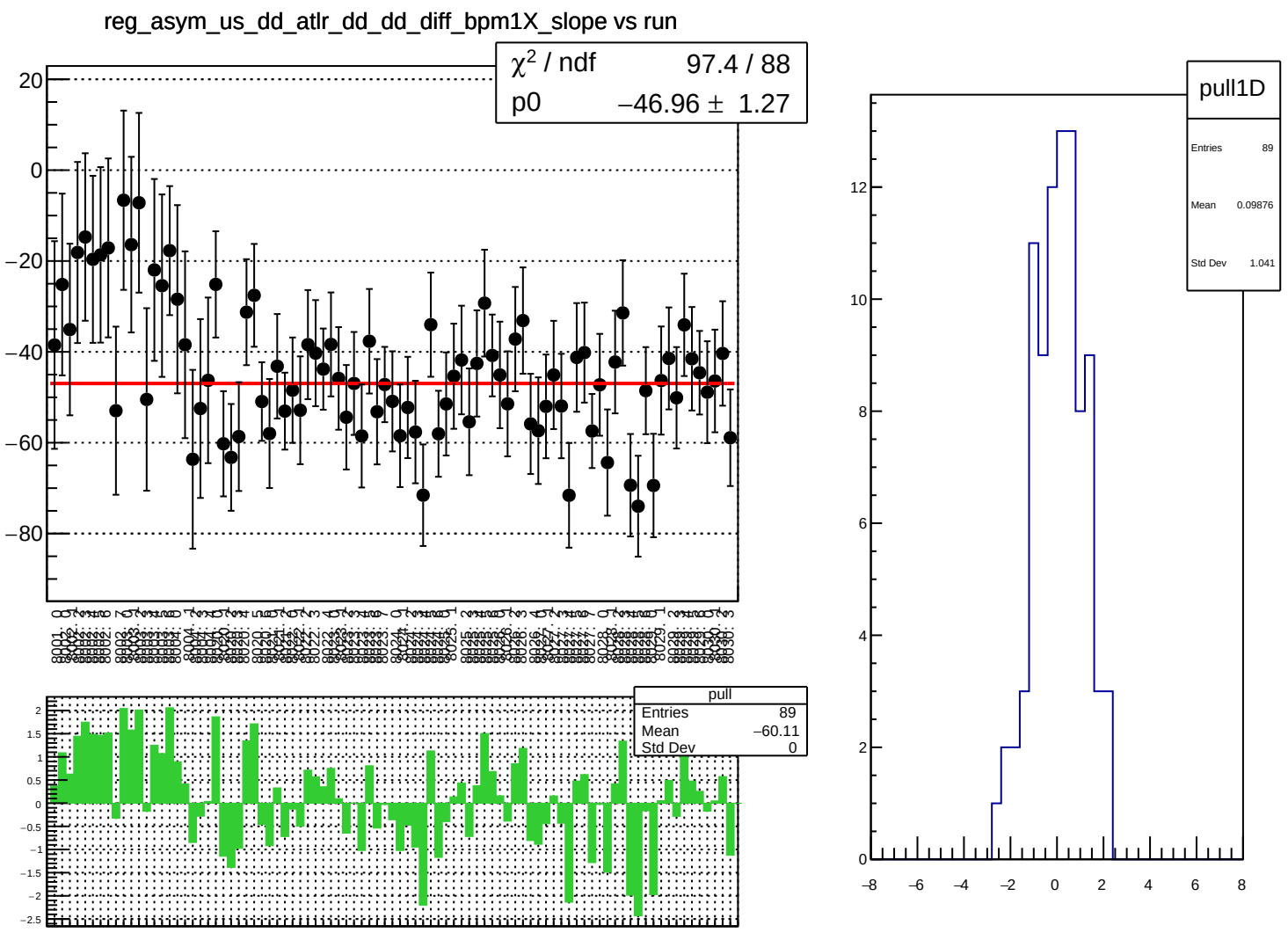

reg_asym_us_dd_atlr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 30.89 / 88
p0 −19.42 ± 4.976
pull
Entries 89
Mean −175.4
Std Dev 0
pull1D
Entries 89
Mean 0.008868
Std Dev 0.589

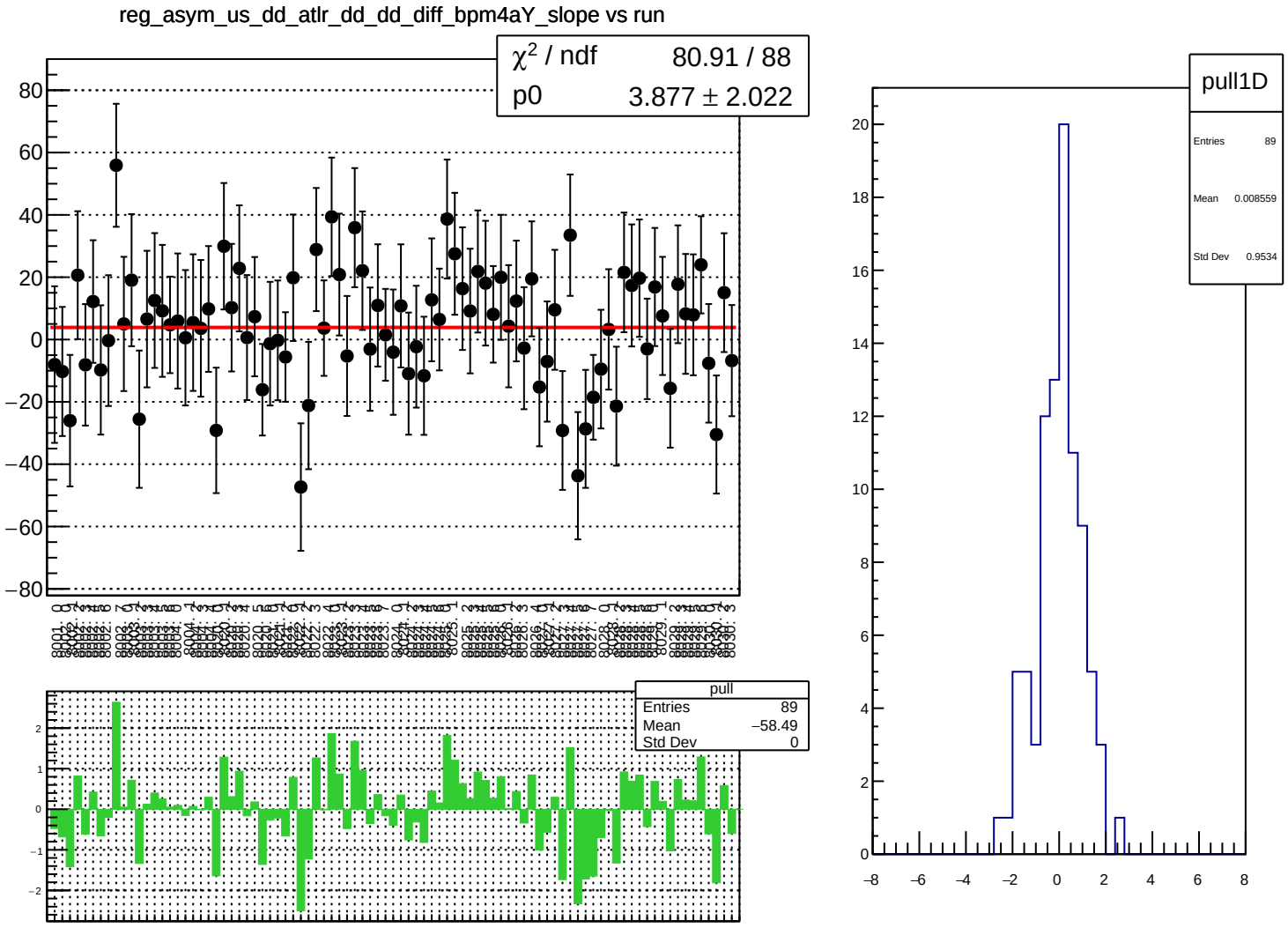

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 37.42 / 88
p0 −126.3 ± 3.292
pull
Entries 89
Mean −80.2
Std Dev 0
pull1D
Entries 89
Mean 0.0604
Std Dev 0.6456

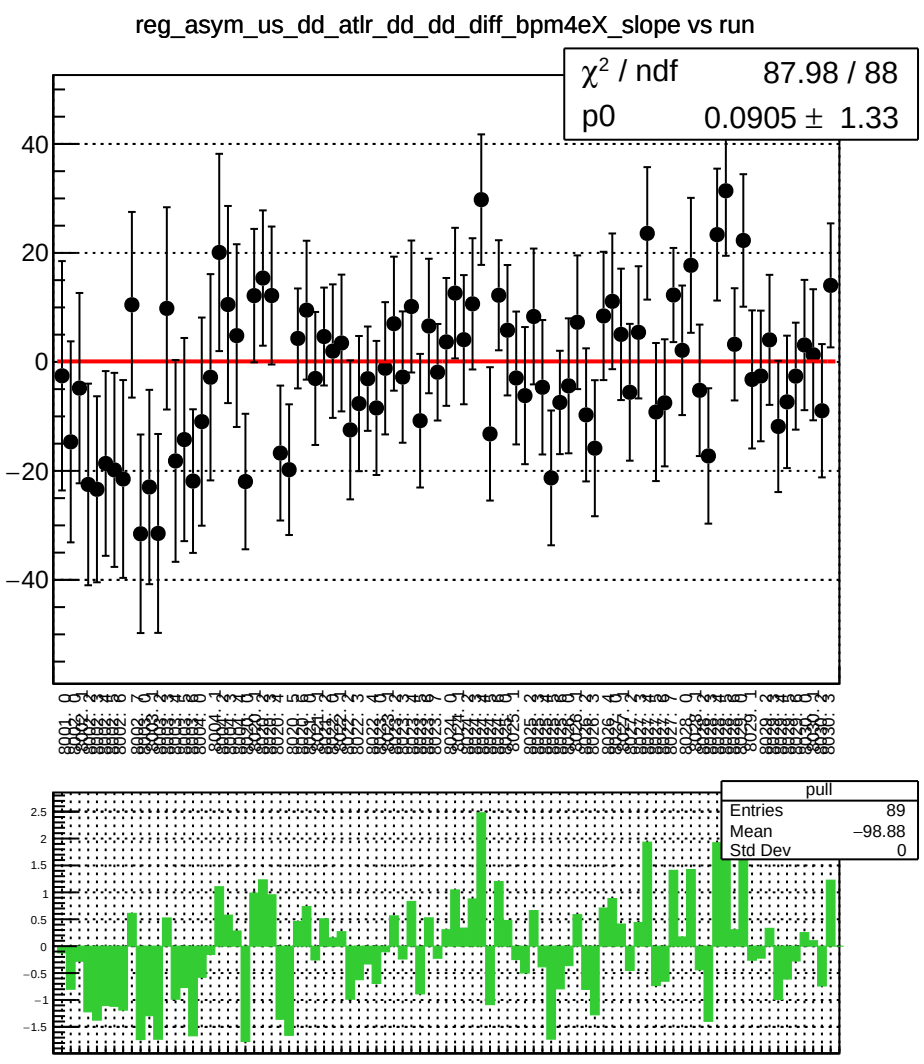

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 30.11 / 88
p0 15.09 ± 5.344
150
100
50
0
−50
−100
−150
pull
Entries 89
Mean −138.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

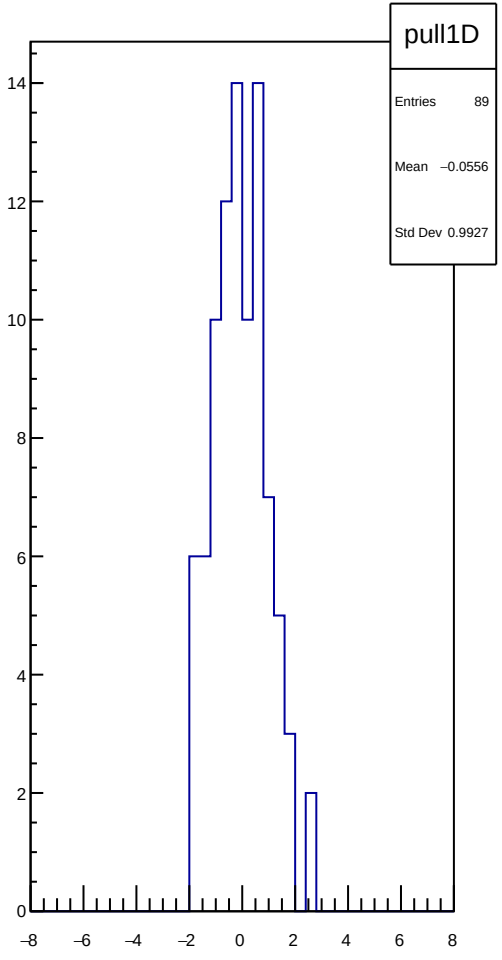

pull1D
Entries 89
Mean −0.009661
Std Dev 0.5816
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

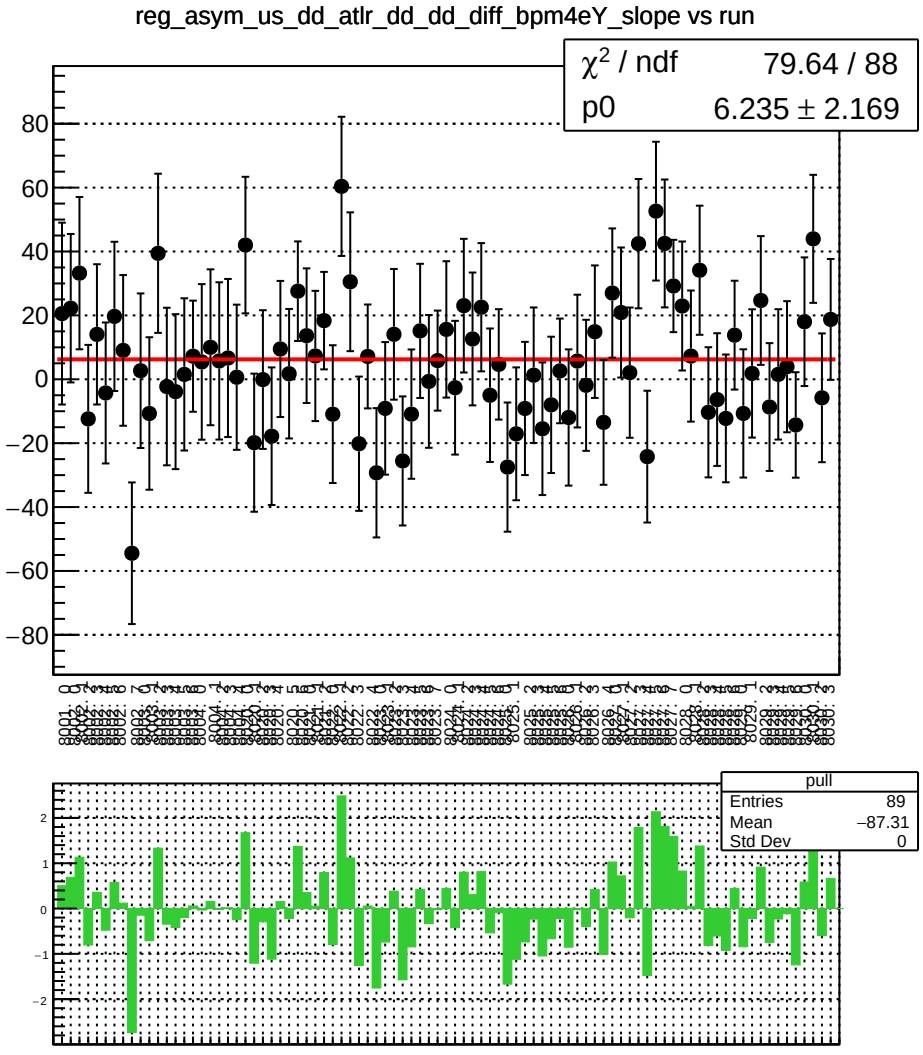

reg_asym_us_dd_atlr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 80.17 / 88
p0 28.03 ± 0.2433
pull
Entries 89
Mean 101.9
Std Dev 0
pull1D
Entries 89
Mean 0.2039
Std Dev 0.9269

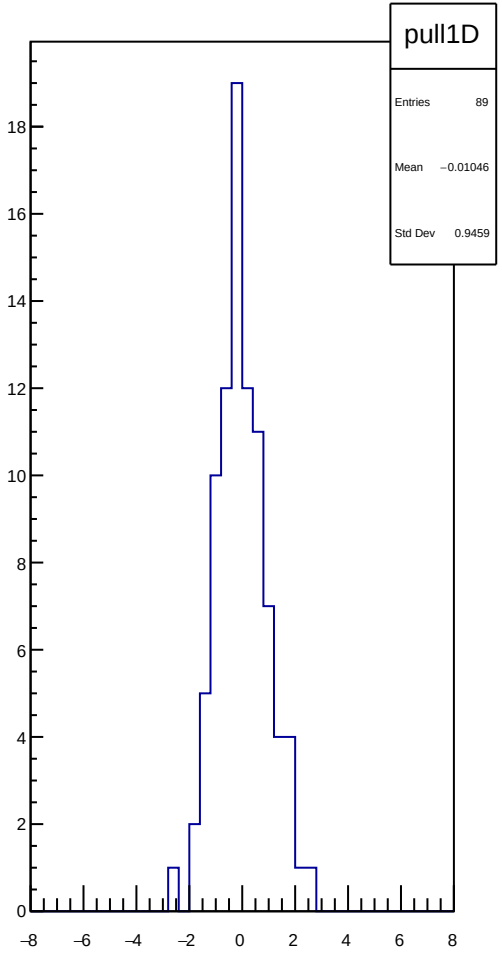

reg_asym_us_dd_atlr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 97.4 / 88
p0 −46.96 ± 1.27
pull
Entries 89
Mean −60.11
Std Dev 0
pull1D
Entries 89
Mean 0.09876
Std Dev 1.041

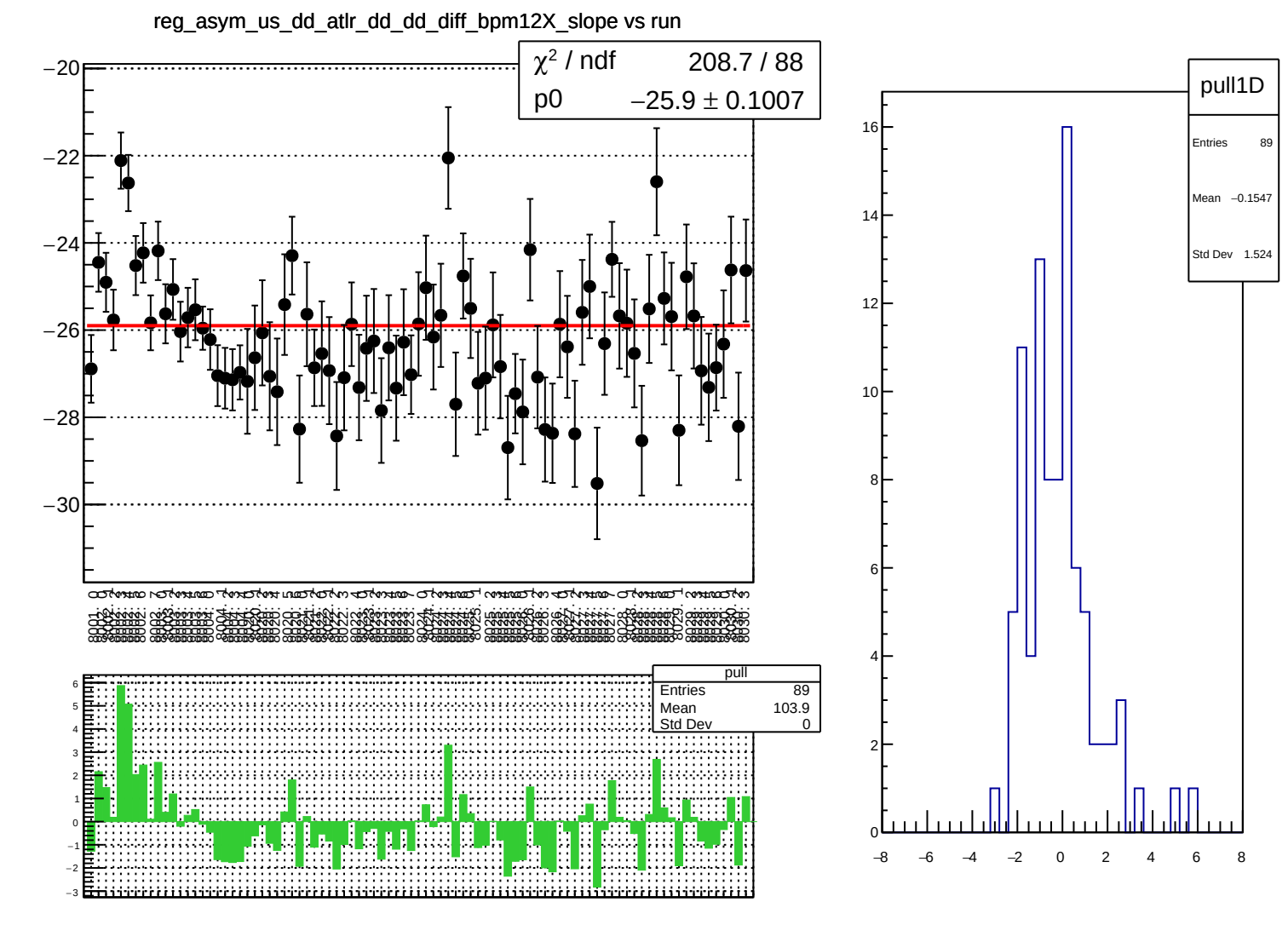

reg_asym_us_dd_atlr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 80.91 / 88
p0 3.877 ± 2.022
pull
Entries 89
Mean −58.49
Std Dev 0
pull1D
Entries 89
Mean 0.008559
Std Dev 0.9534

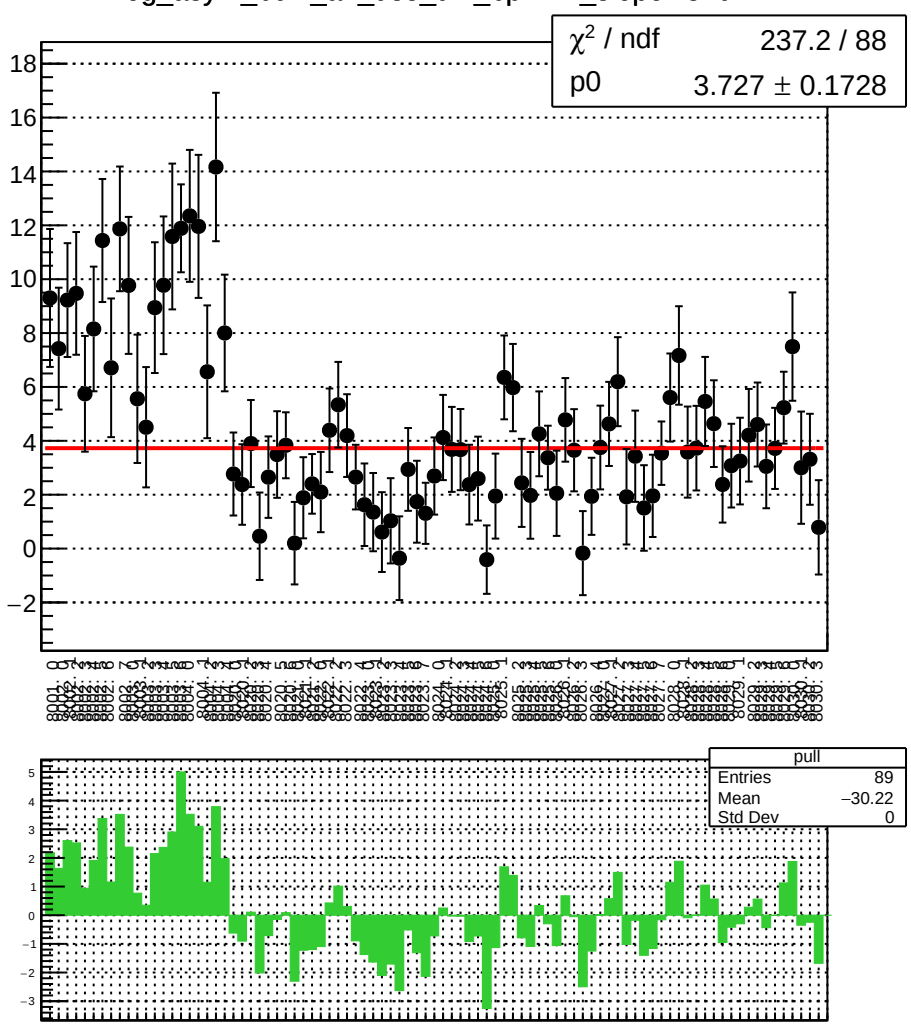

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 87.98 / 88
p0 0.0905 ± 1.33
pull
Entries 89
Mean −98.88
Std Dev 0

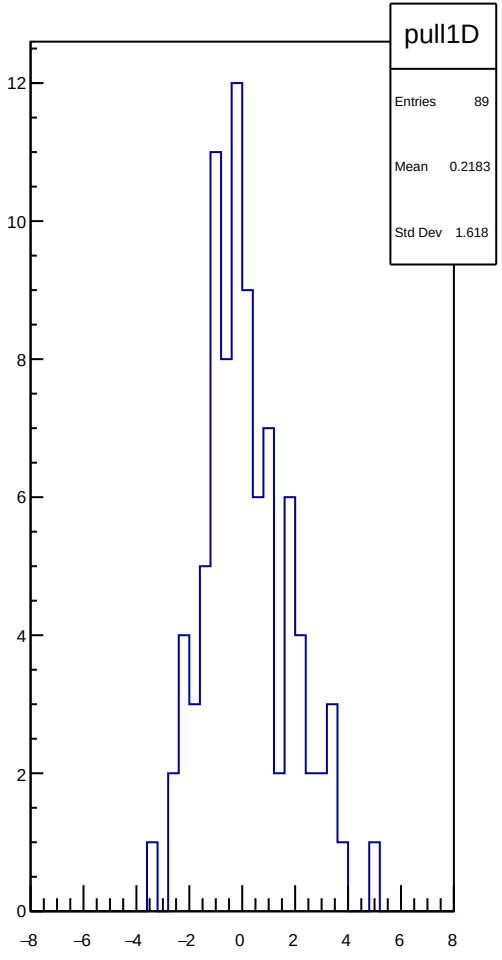

pull1D
Entries 89
Mean −0.0556
Std Dev 0.9927

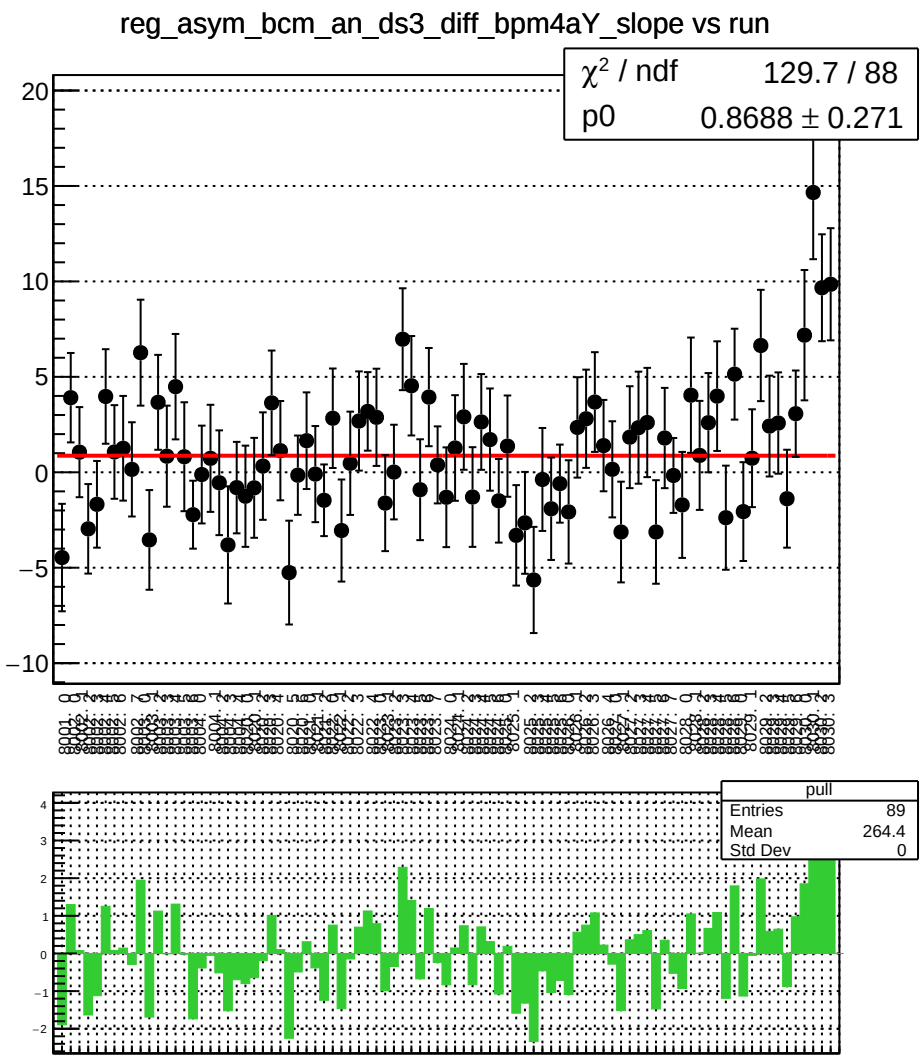

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 79.64 / 88
p0 6.235 ± 2.169
pull
Entries 89
Mean −87.31
Std Dev 0

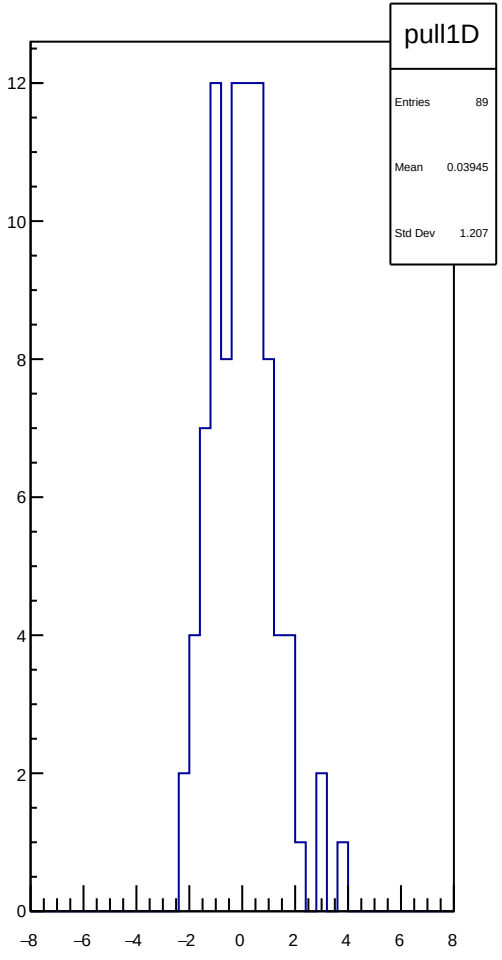

pull1D
Entries 89
Mean −0.01046
Std Dev 0.9459

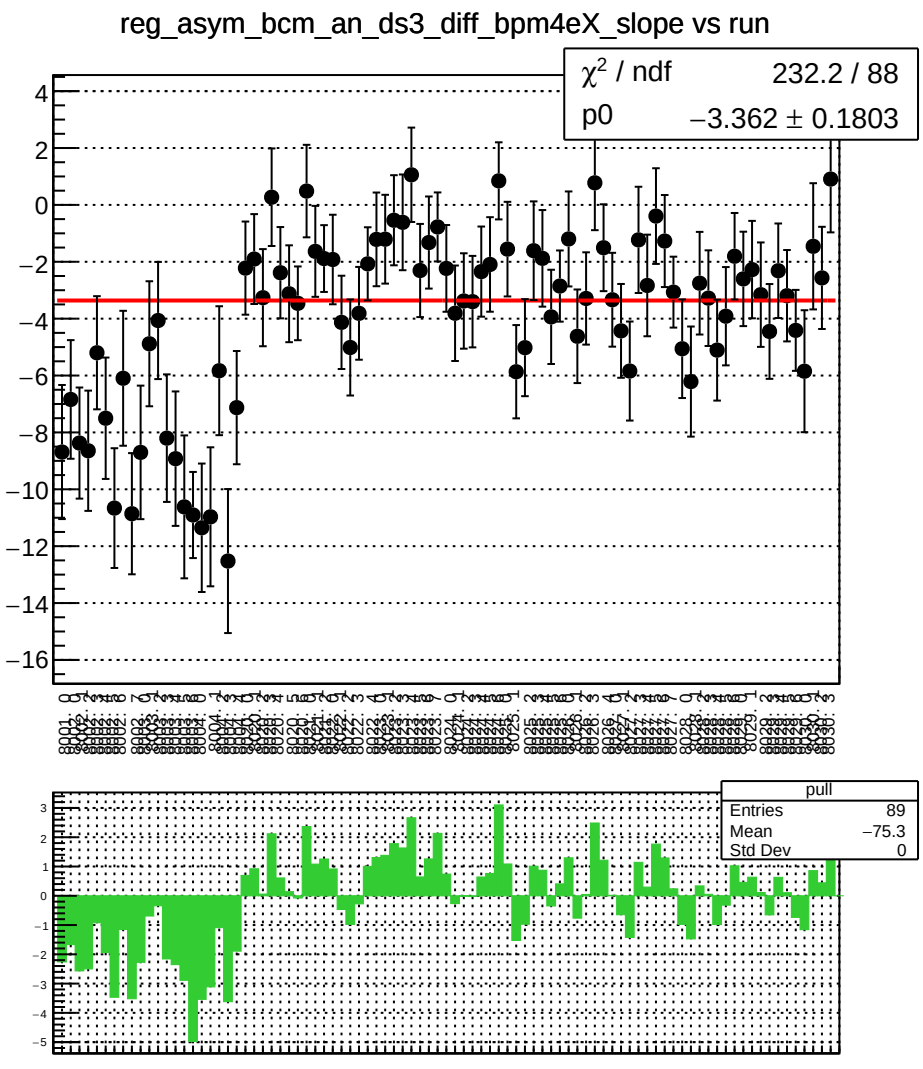

reg_asym_us_dd_atlr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 208.7 / 88
p0 −25.9 ± 0.1007
pull
Entries 89
Mean 103.9
Std Dev 0
pull1D
Entries 89
Mean −0.1547
Std Dev 1.524

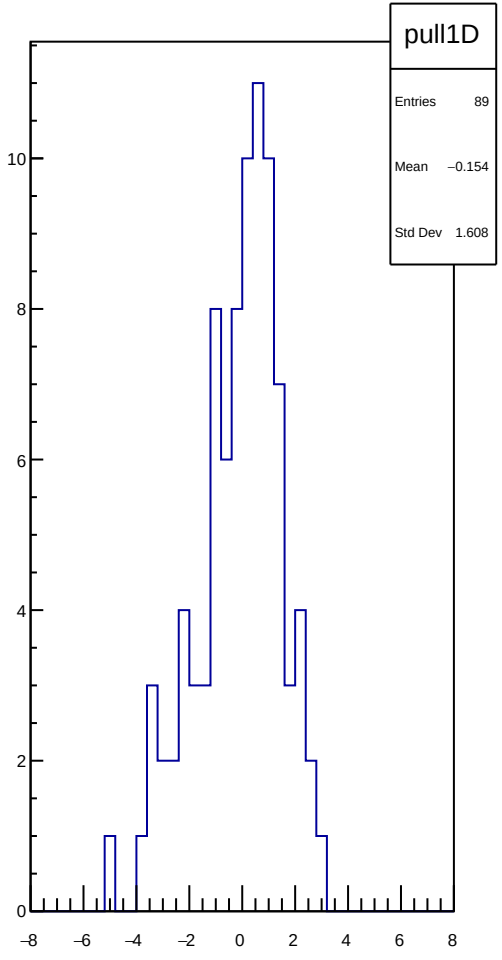

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 237.2 / 88
p0 3.727 ± 0.1728
pull
Entries 89
Mean −30.22
Std Dev 0

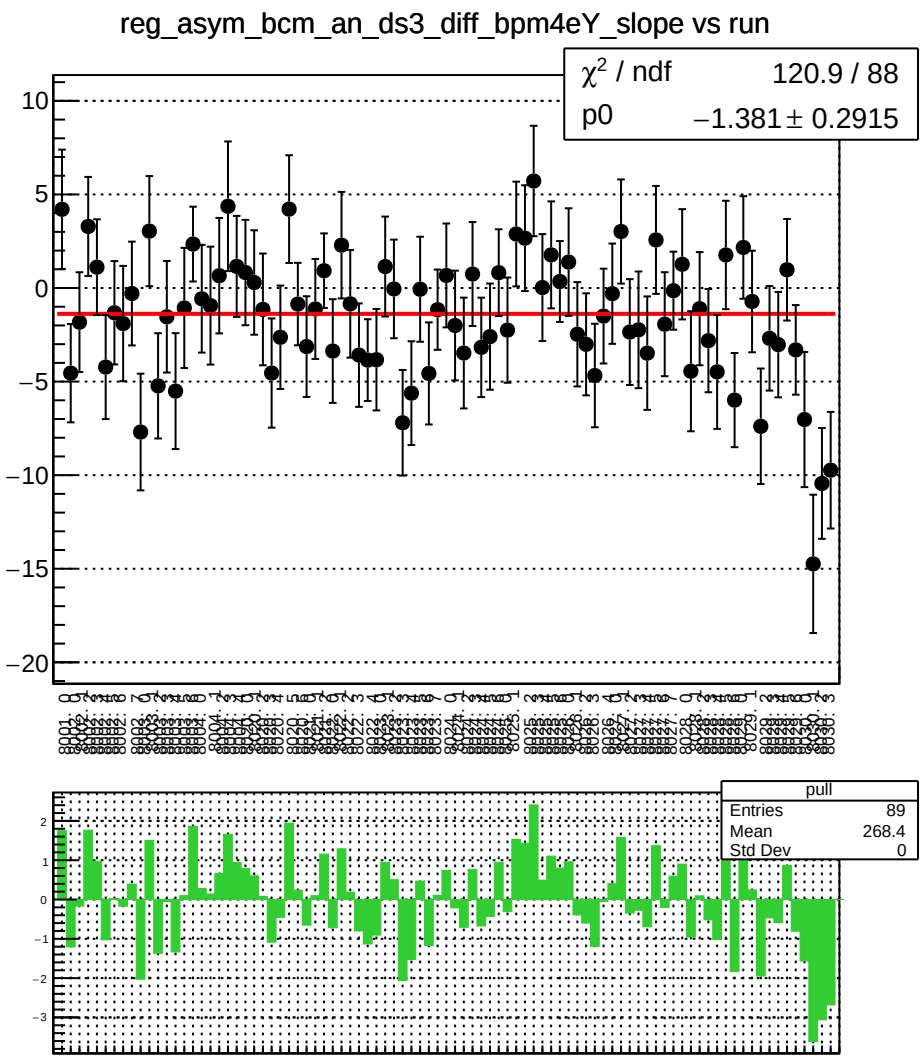

pull1D
Entries 89
Mean 0.2183
Std Dev 1.618

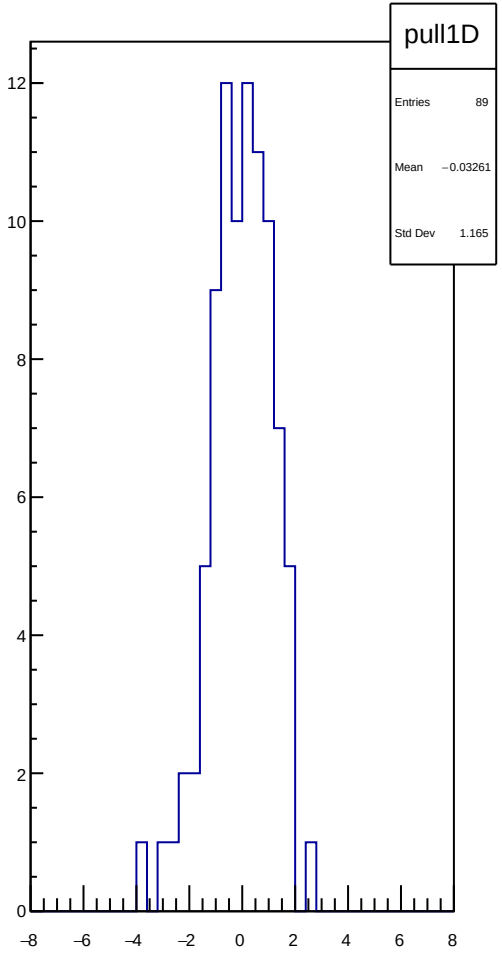

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 129.7 / 88
p0 0.8688 ± 0.271
pull
Entries 89
Mean 264.4
Std Dev 0

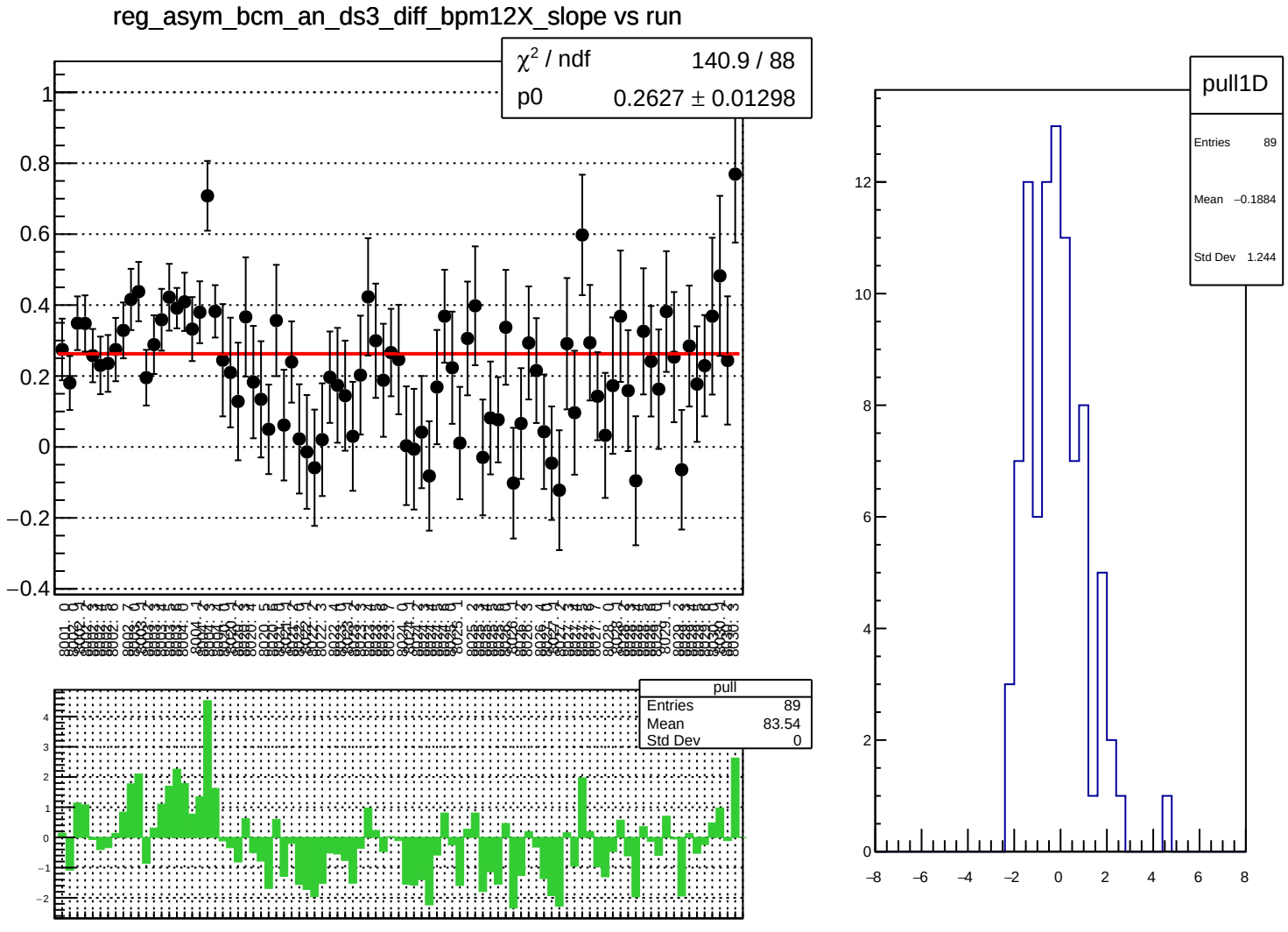

pull1D
Entries 89
Mean 0.03945
Std Dev 1.207

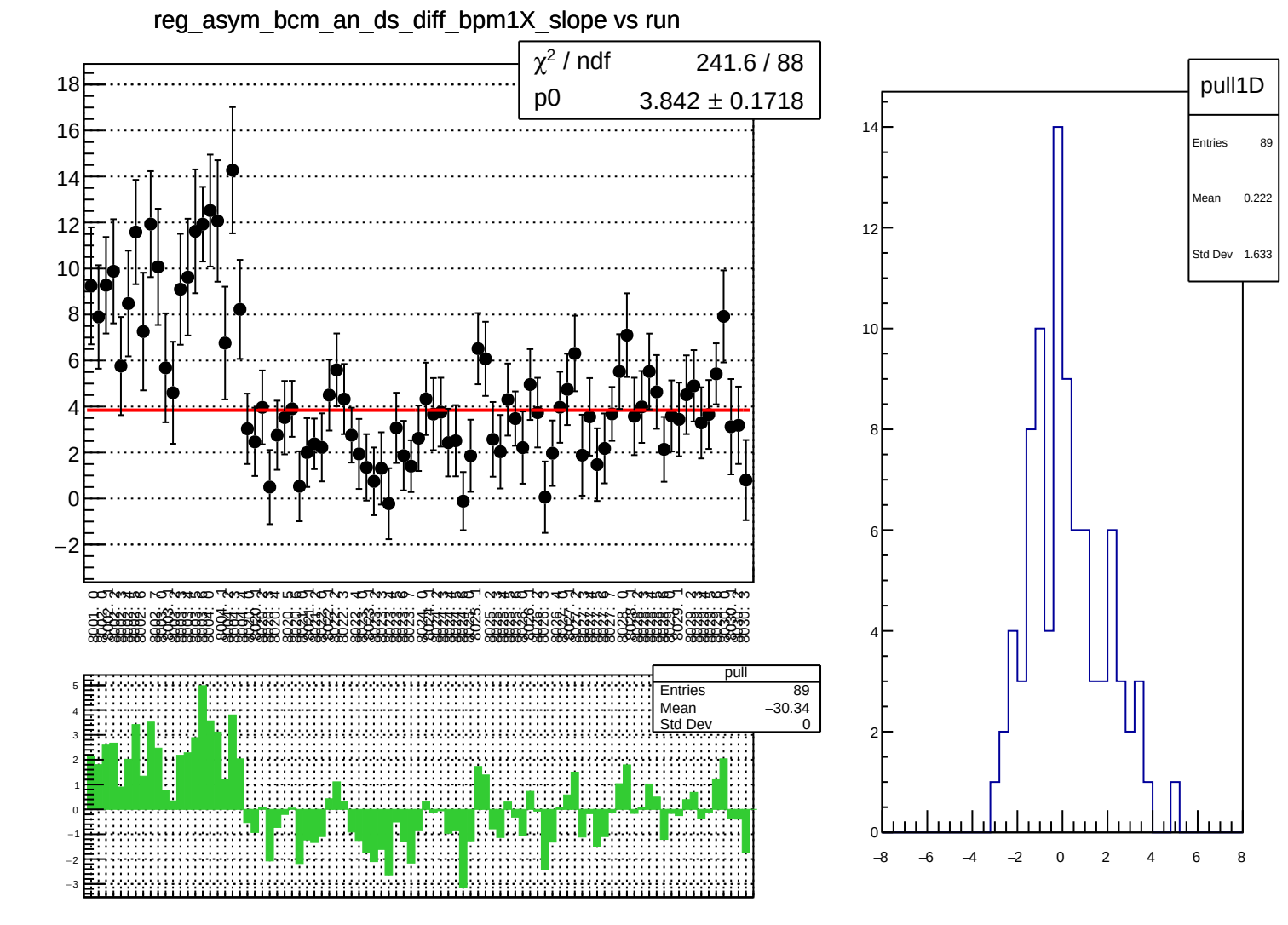

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 232.2 / 88
p0 −3.362 ± 0.1803
pull
Entries 89
Mean −75.3
Std Dev 0

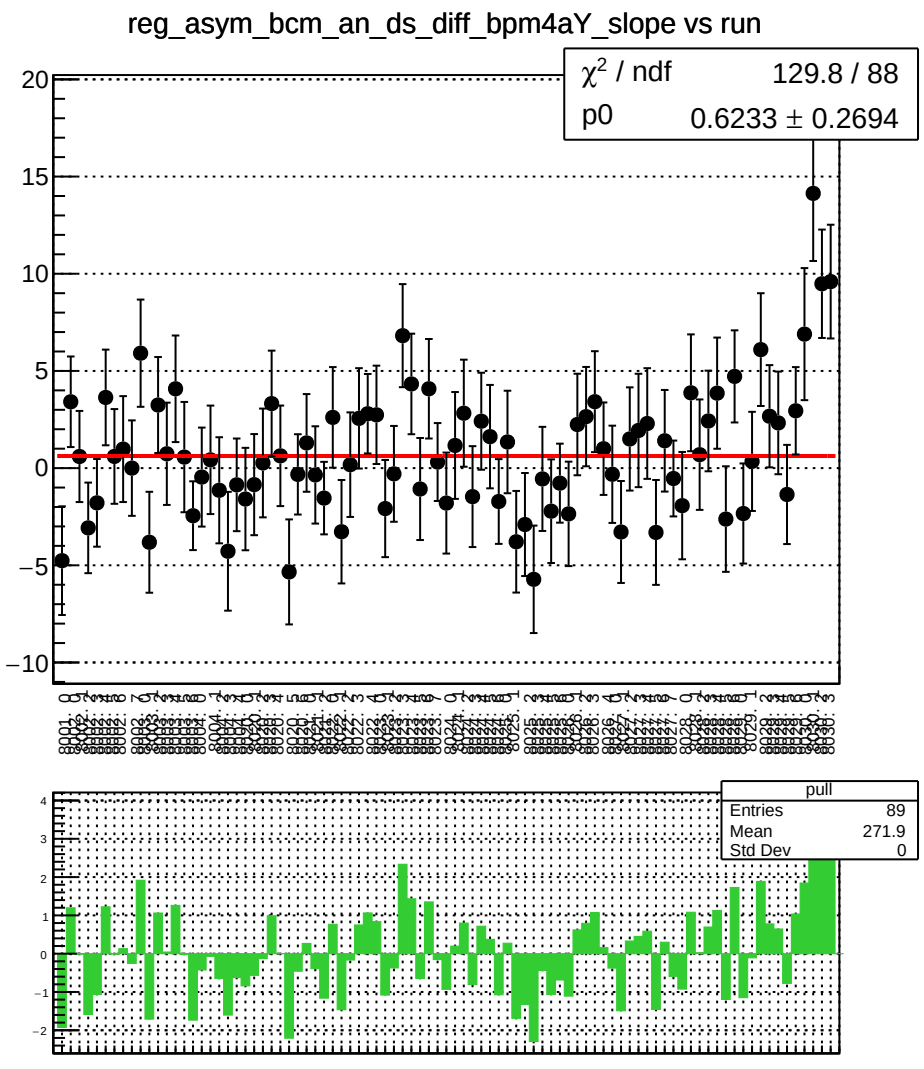

pull1D
Entries 89
Mean −0.154
Std Dev 1.608

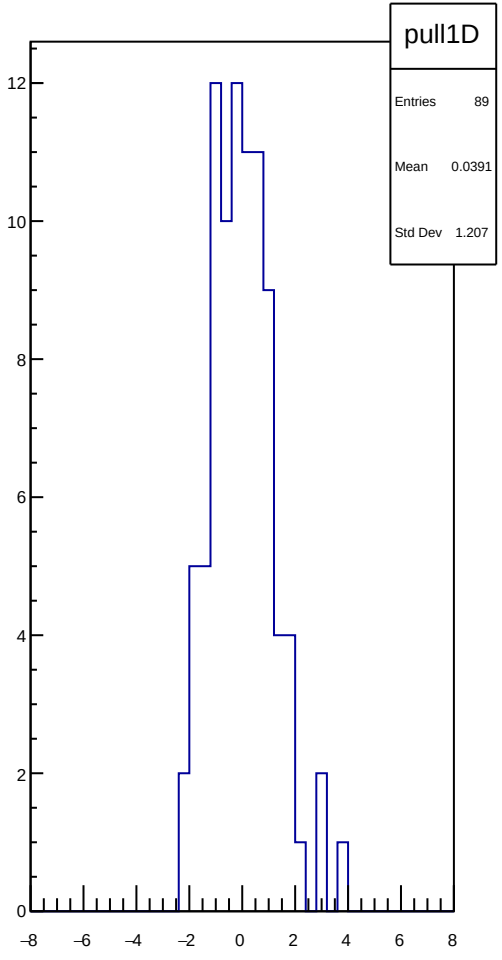

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 120.9 / 88
p0 −1.381 ± 0.2915
pull
Entries 89
Mean 268.4
Std Dev 0

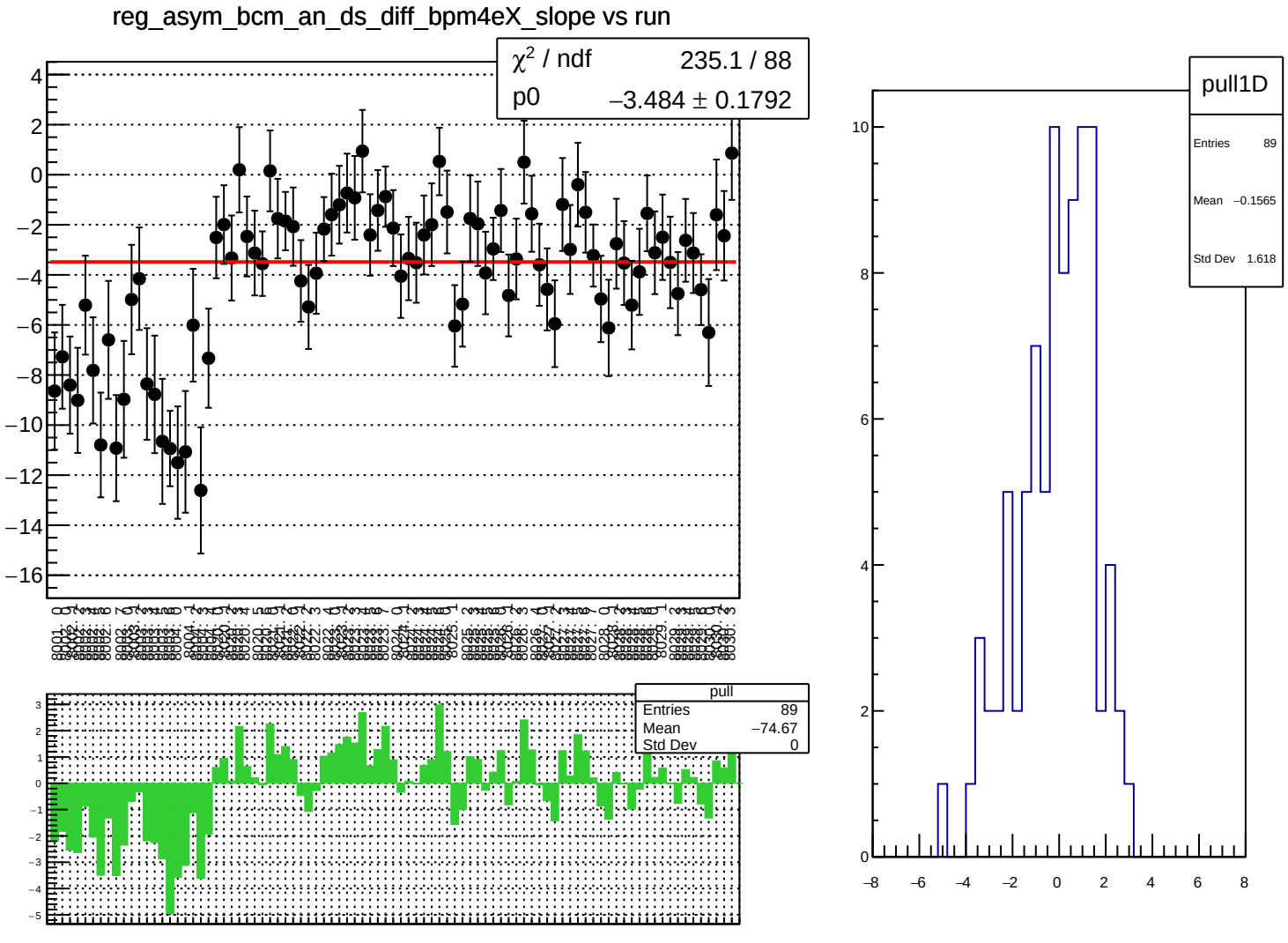

pull1D
Entries 89
Mean −0.03261
Std Dev 1.165

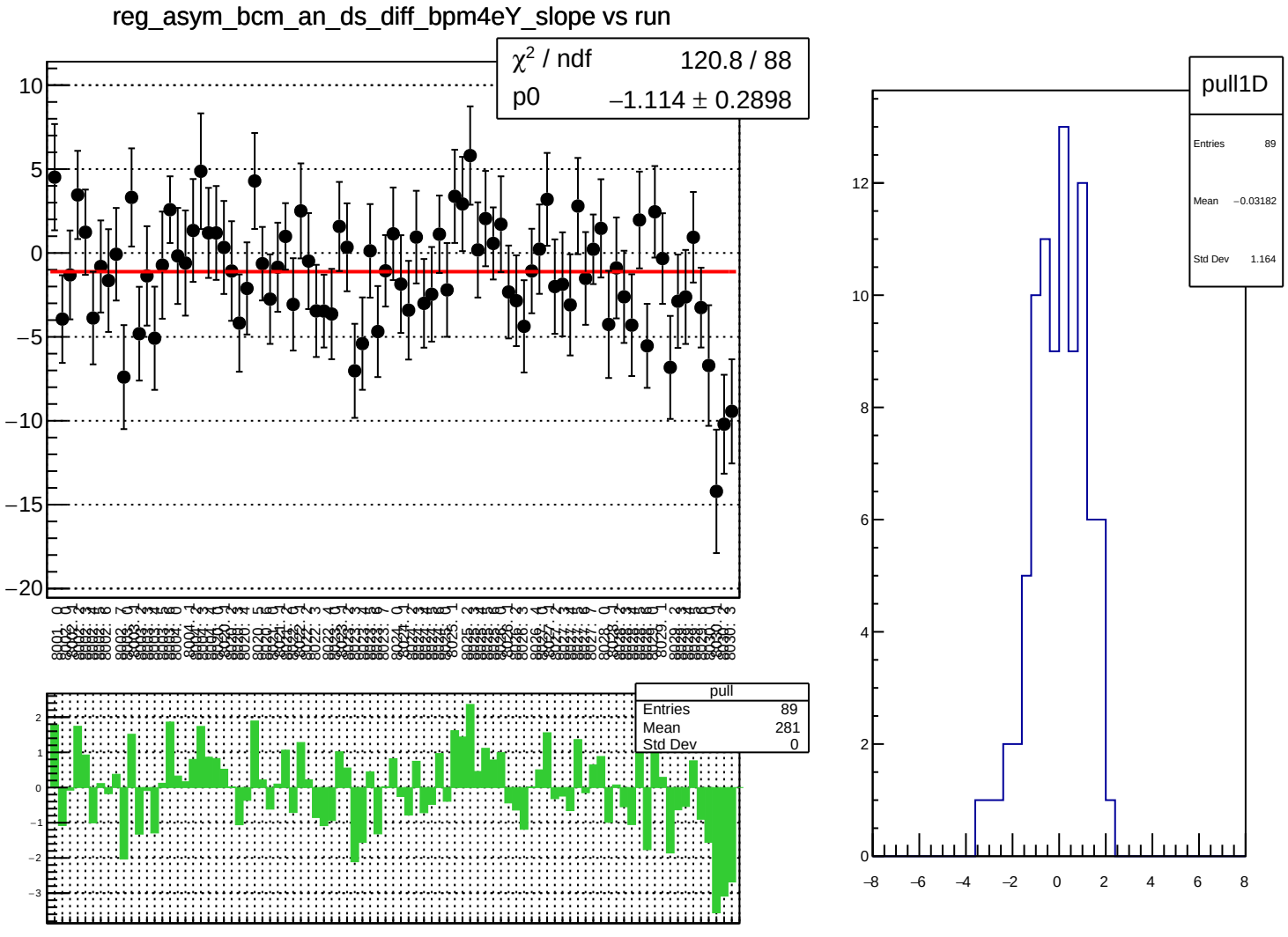

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 140.9 / 88
p0 0.2627 ± 0.01298
pull
Entries 89
Mean 83.54
Std Dev 0
pull1D
Entries 89
Mean −0.1884
Std Dev 1.244

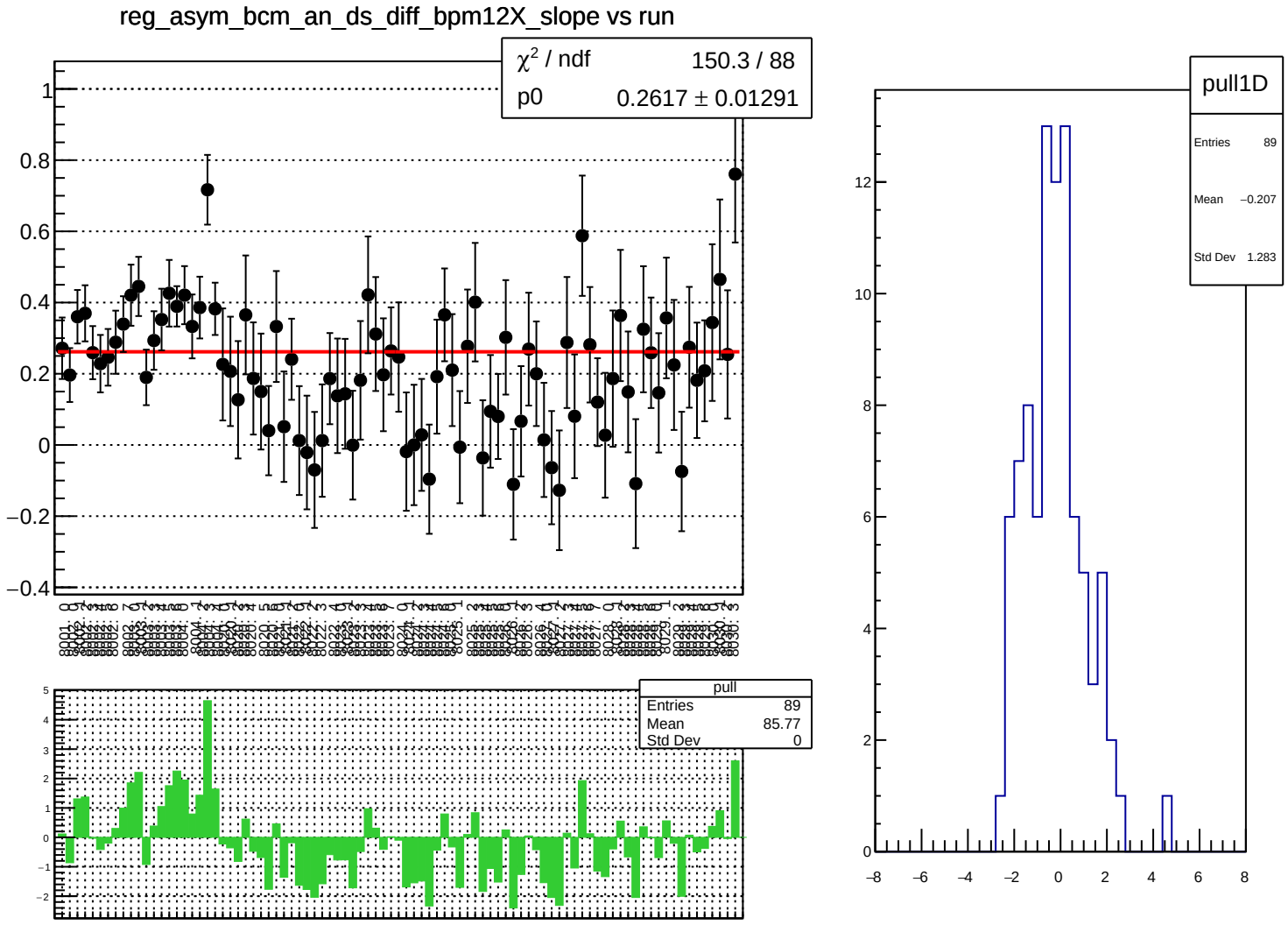

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 241.6 / 88
p0 3.842 ± 0.1718
pull
Entries 89
Mean −30.34
Std Dev 0
pull1D
Entries 89
Mean 0.222
Std Dev 1.633

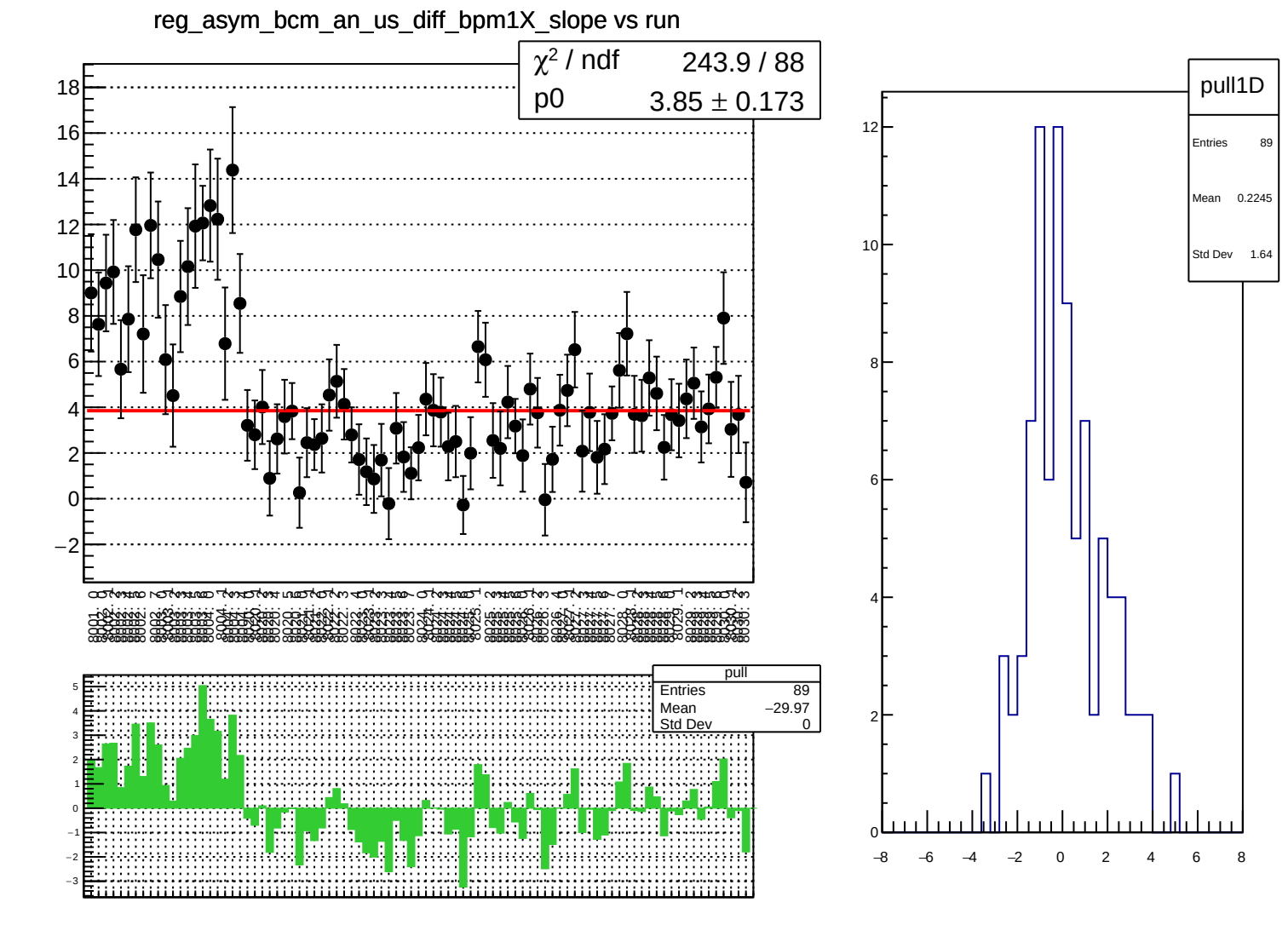

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 129.8 / 88
p0 0.6233 ± 0.2694
pull
Entries 89
Mean 271.9
Std Dev 0

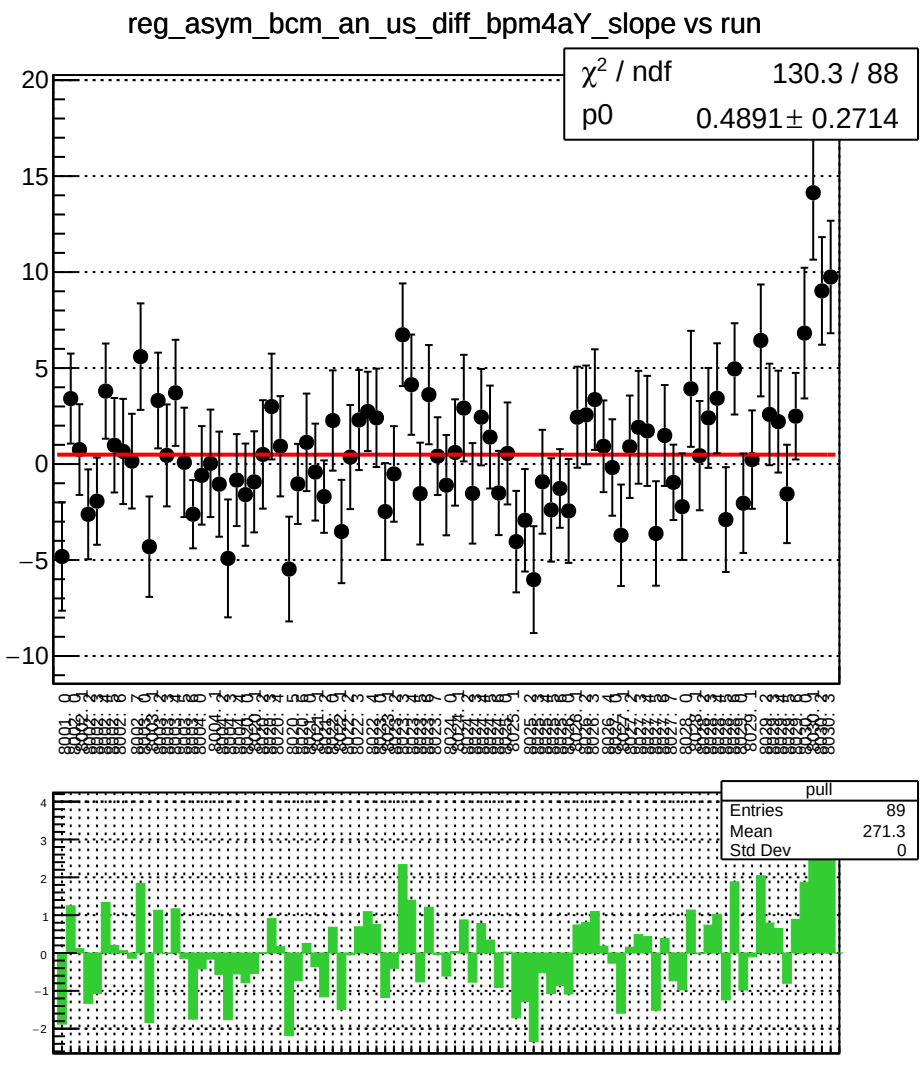

pull1D
Entries 89
Mean 0.0391
Std Dev 1.207

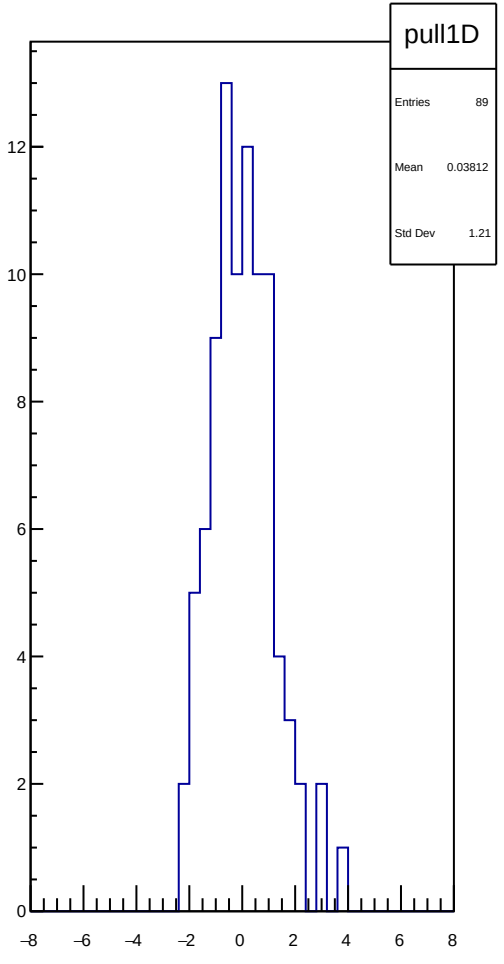

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 235.1 / 88
p0 −3.484 ± 0.1792
pull
Entries 89
Mean −74.67
Std Dev 0
pull1D
Entries 89
Mean −0.1565
Std Dev 1.618

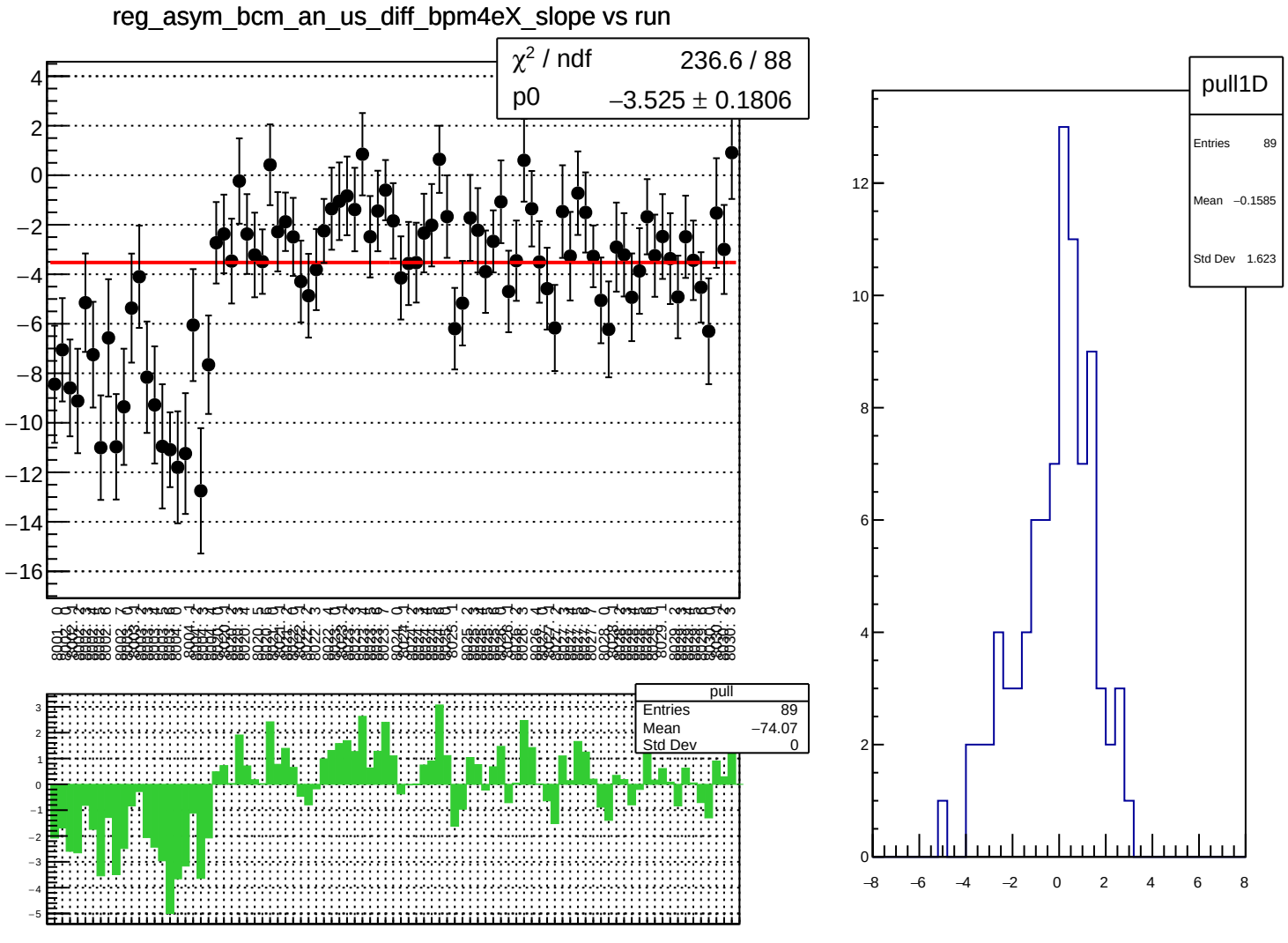

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 120.8 / 88
p0 −1.114 ± 0.2898
pull
Entries 89
Mean 281
Std Dev 0
pull1D
Entries 89
Mean −0.03182
Std Dev 1.164

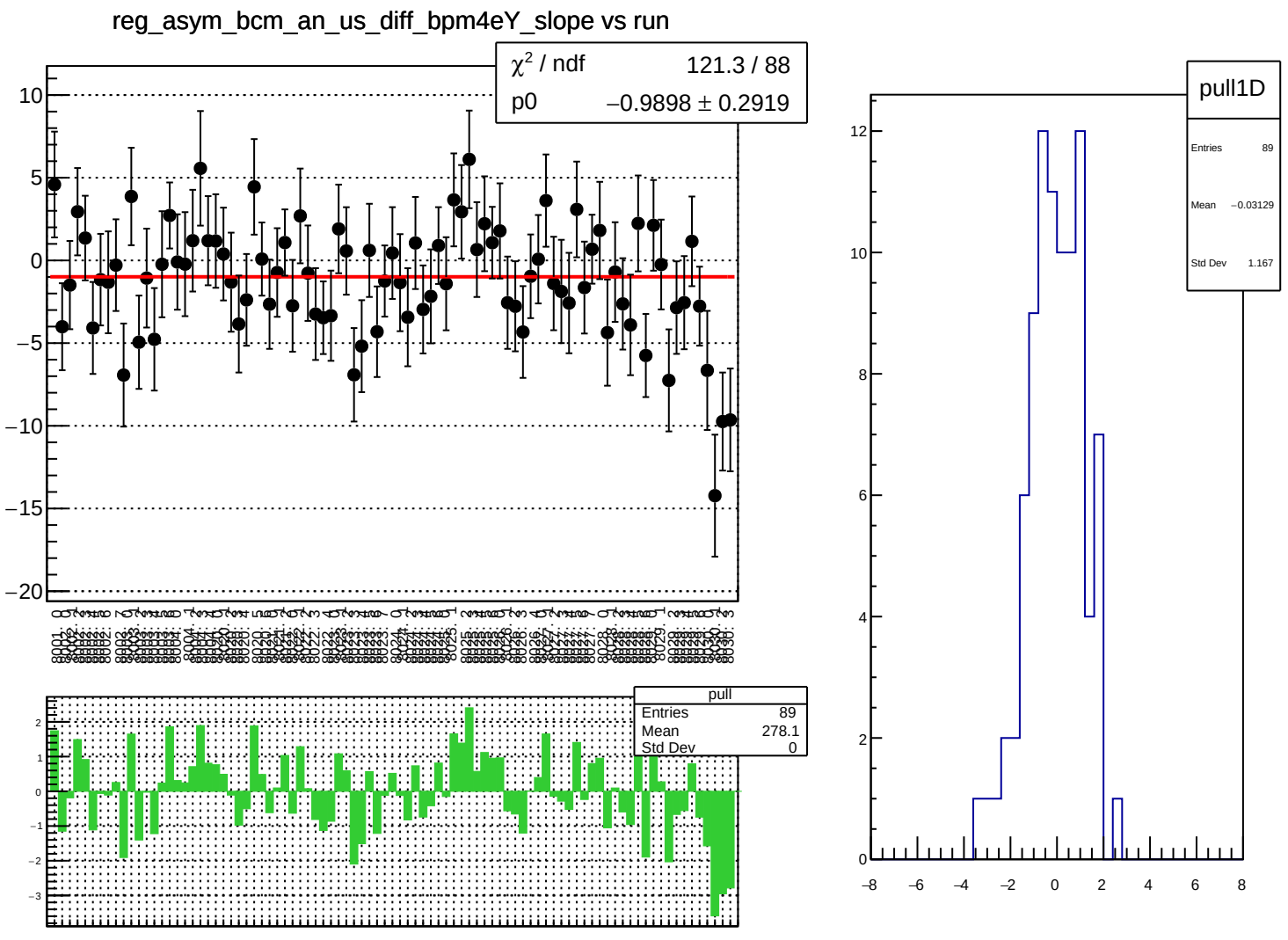

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 150.3 / 88
p0 0.2617 ± 0.01291
pull
Entries 89
Mean 85.77
Std Dev 0
pull1D
Entries 89
Mean −0.207
Std Dev 1.283

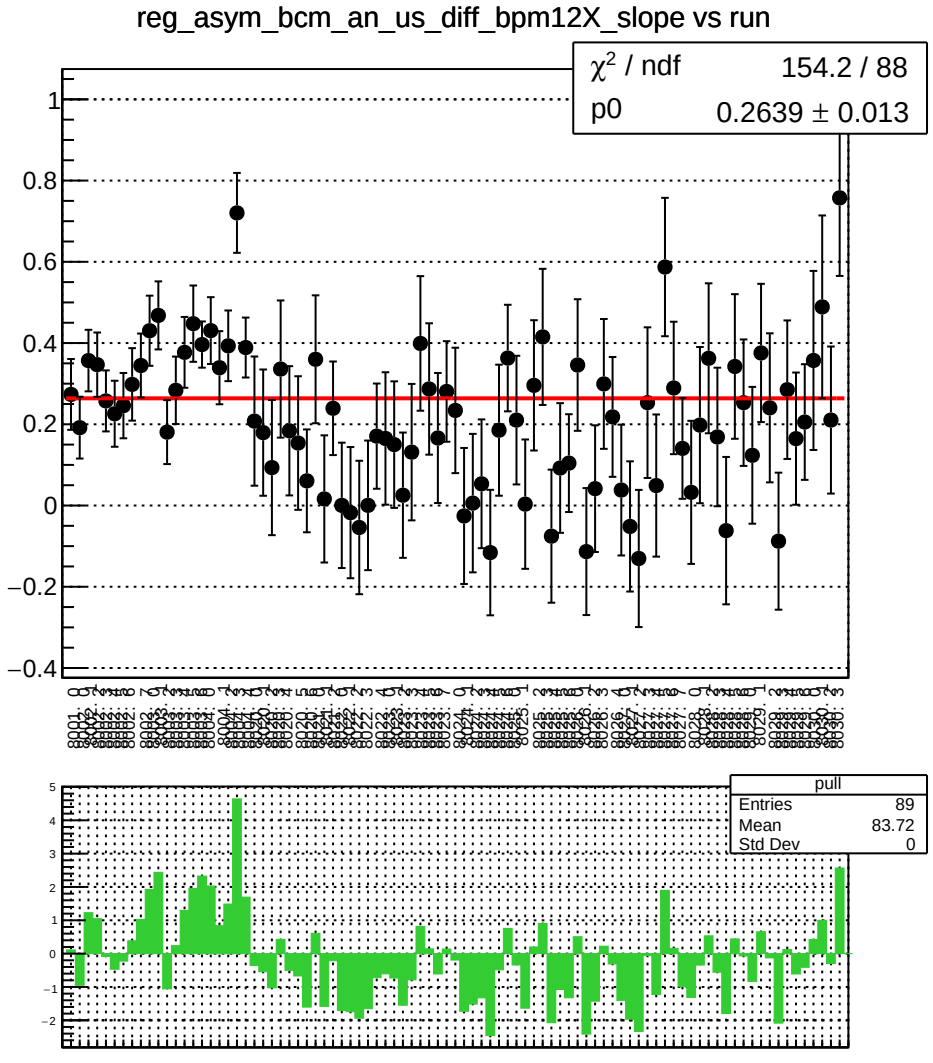

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 243.9 / 88
p0 3.85 ± 0.173
pull
Entries 89
Mean −29.97
Std Dev 0
pull1D
Entries 89
Mean 0.2245
Std Dev 1.64

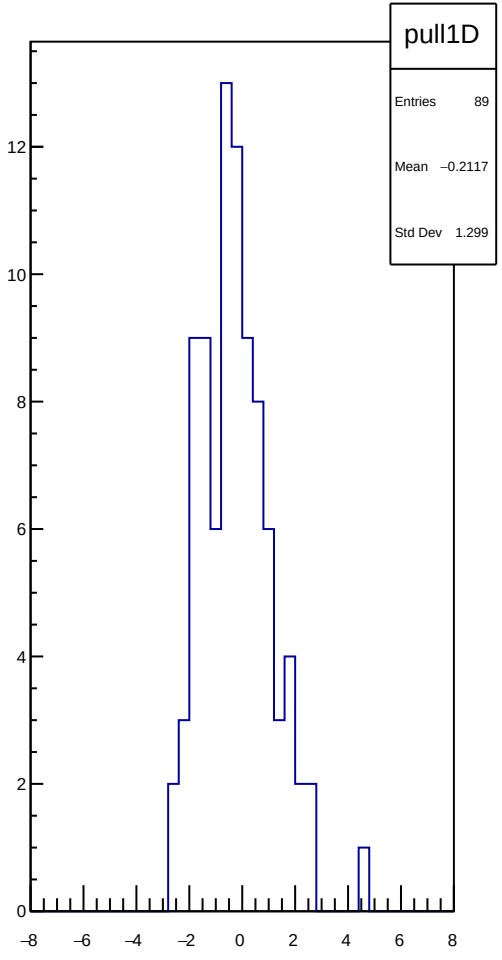

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 130.3 / 88
p0 0.4891± 0.2714
pull
Entries 89
Mean 271.3
Std Dev 0

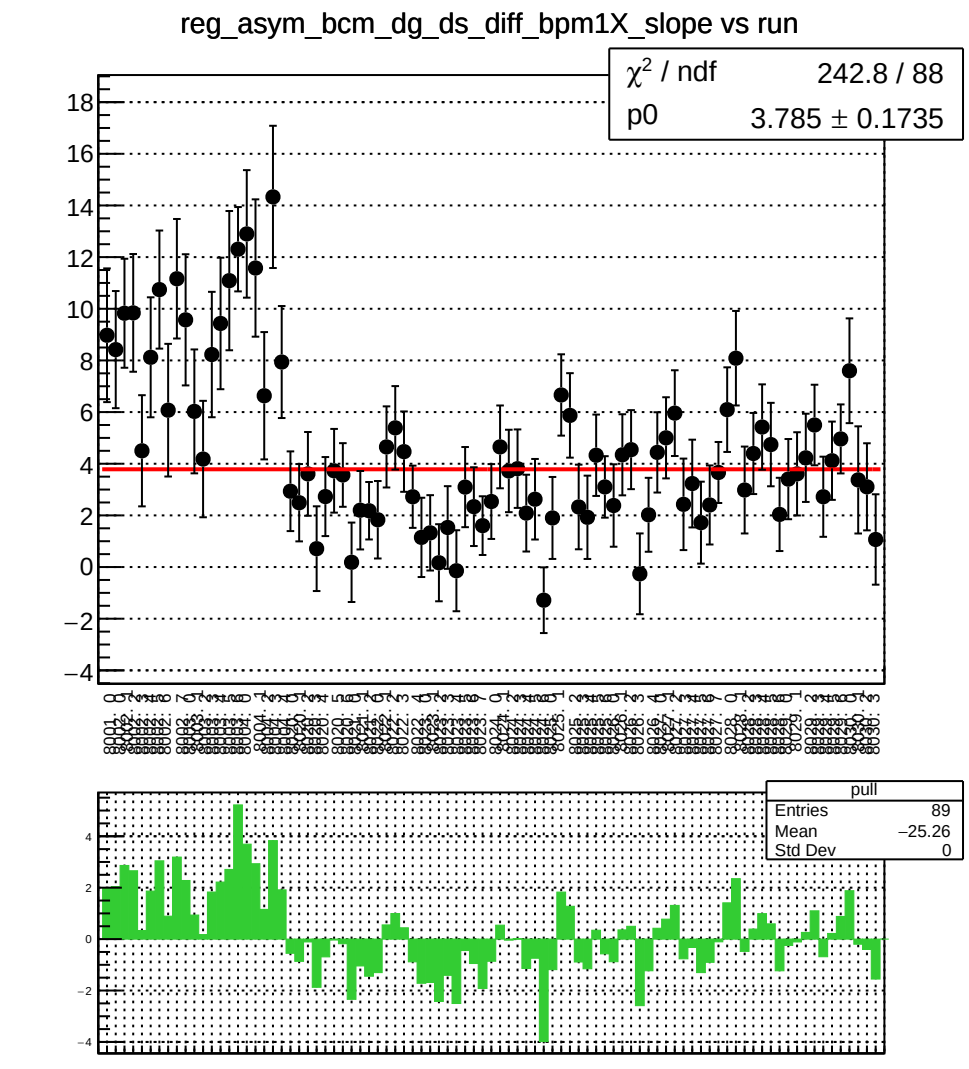

pull1D
Entries 89
Mean 0.03812
Std Dev 1.21

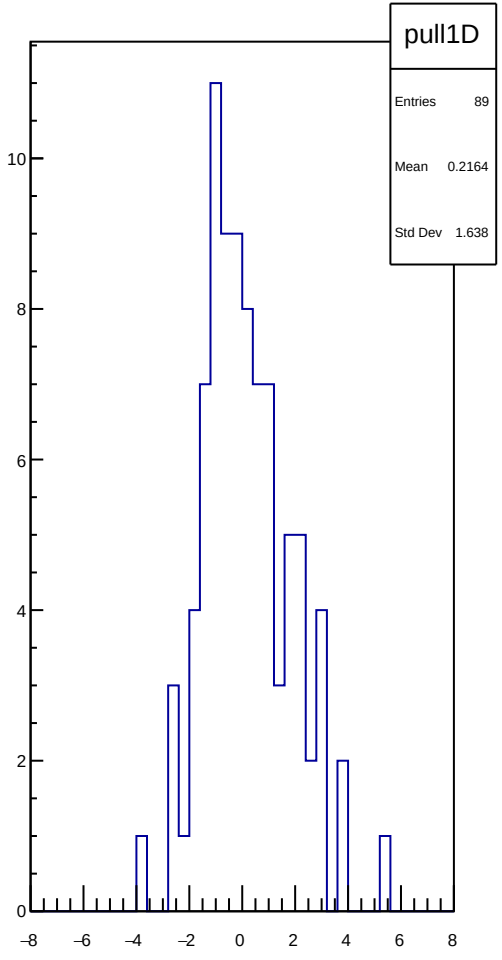

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 236.6 / 88
p0 −3.525 ± 0.1806
pull
Entries 89
Mean −74.07
Std Dev 0
pull1D
Entries 89
Mean −0.1585
Std Dev 1.623

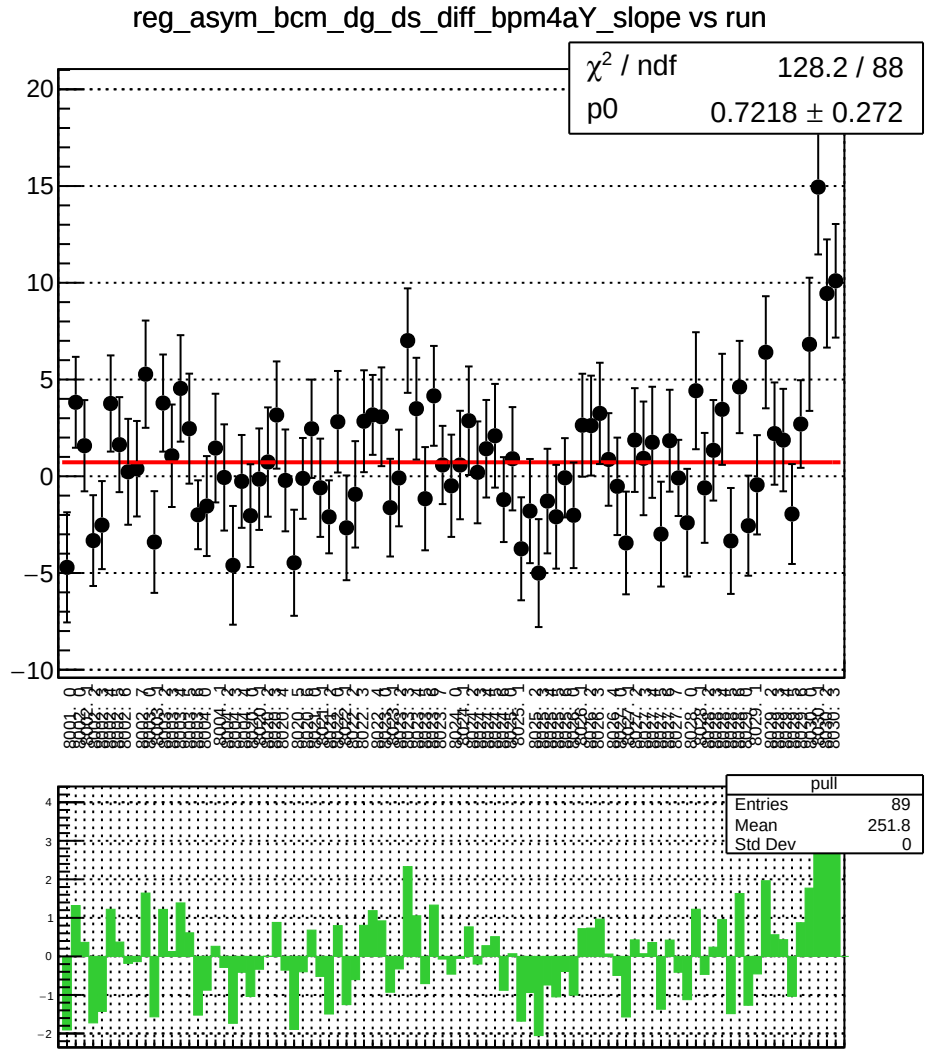

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 121.3 / 88
p0 −0.9898 ± 0.2919
pull
Entries 89
Mean 278.1
Std Dev 0
pull1D
Entries 89
Mean −0.03129
Std Dev 1.167

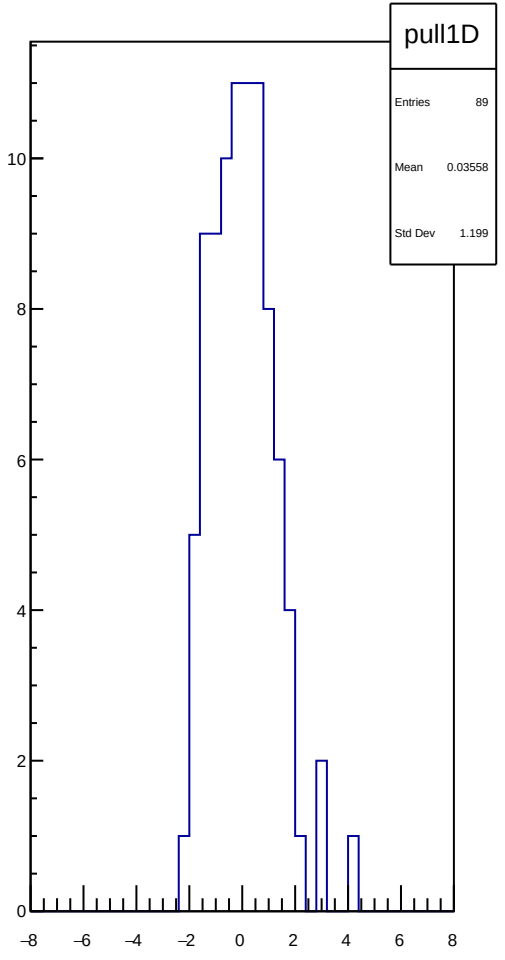

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 154.2 / 88
p0 0.2639 ± 0.013
pull
Entries 89
Mean 83.72
Std Dev 0

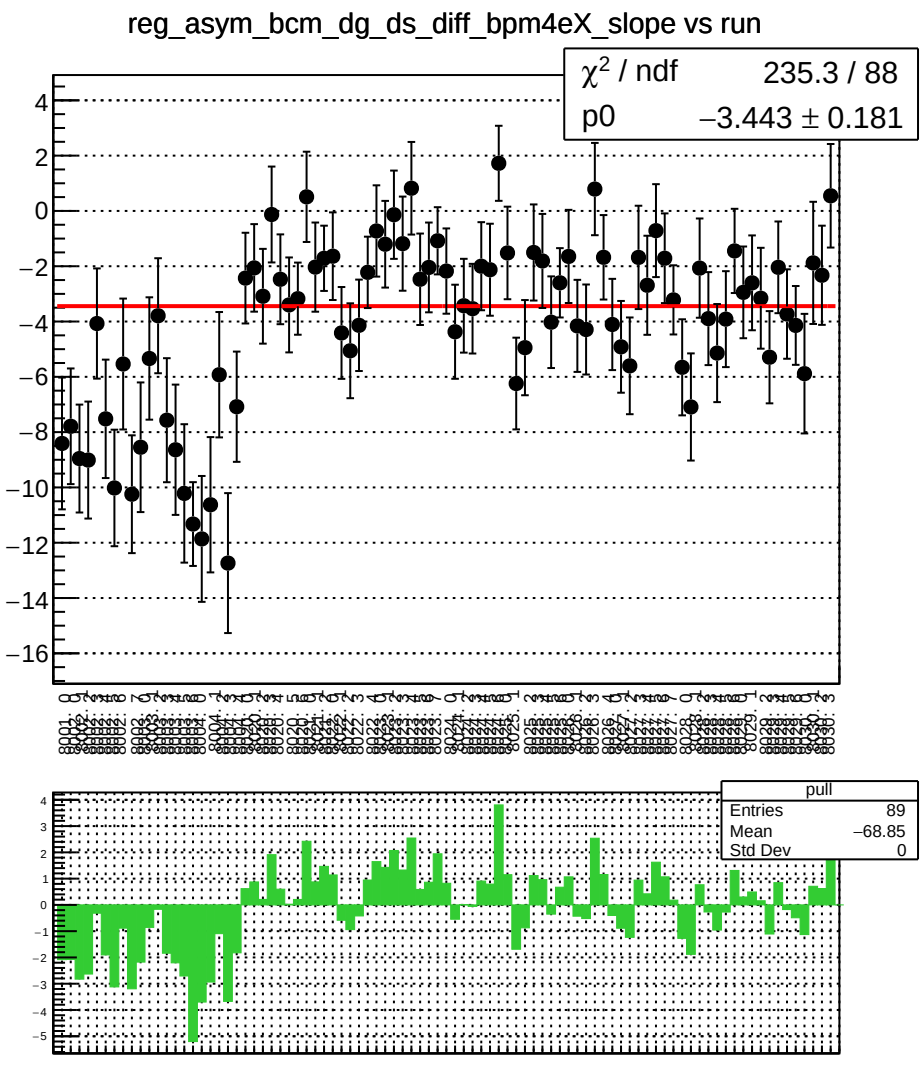

pull1D
Entries 89
Mean −0.2117
Std Dev 1.299

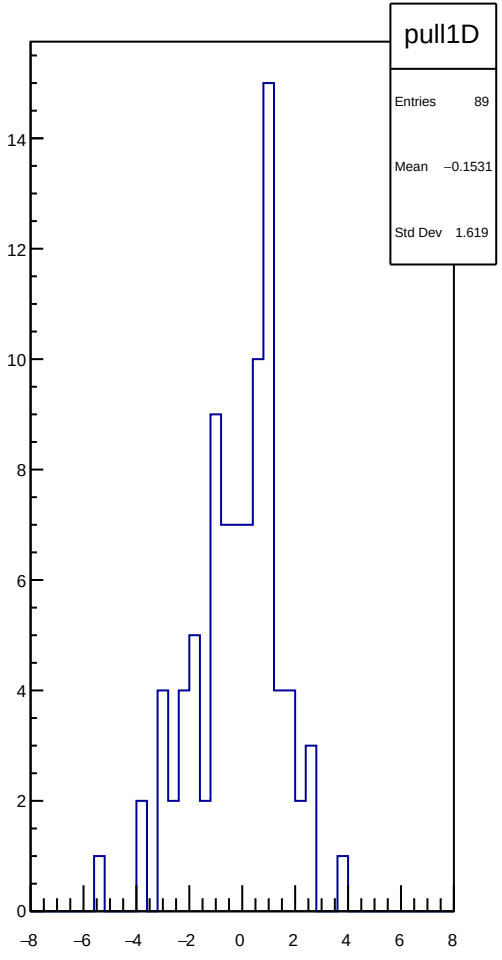

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 242.8 / 88
p0 3.785 ± 0.1735
pull
Entries 89
Mean −25.26
Std Dev 0

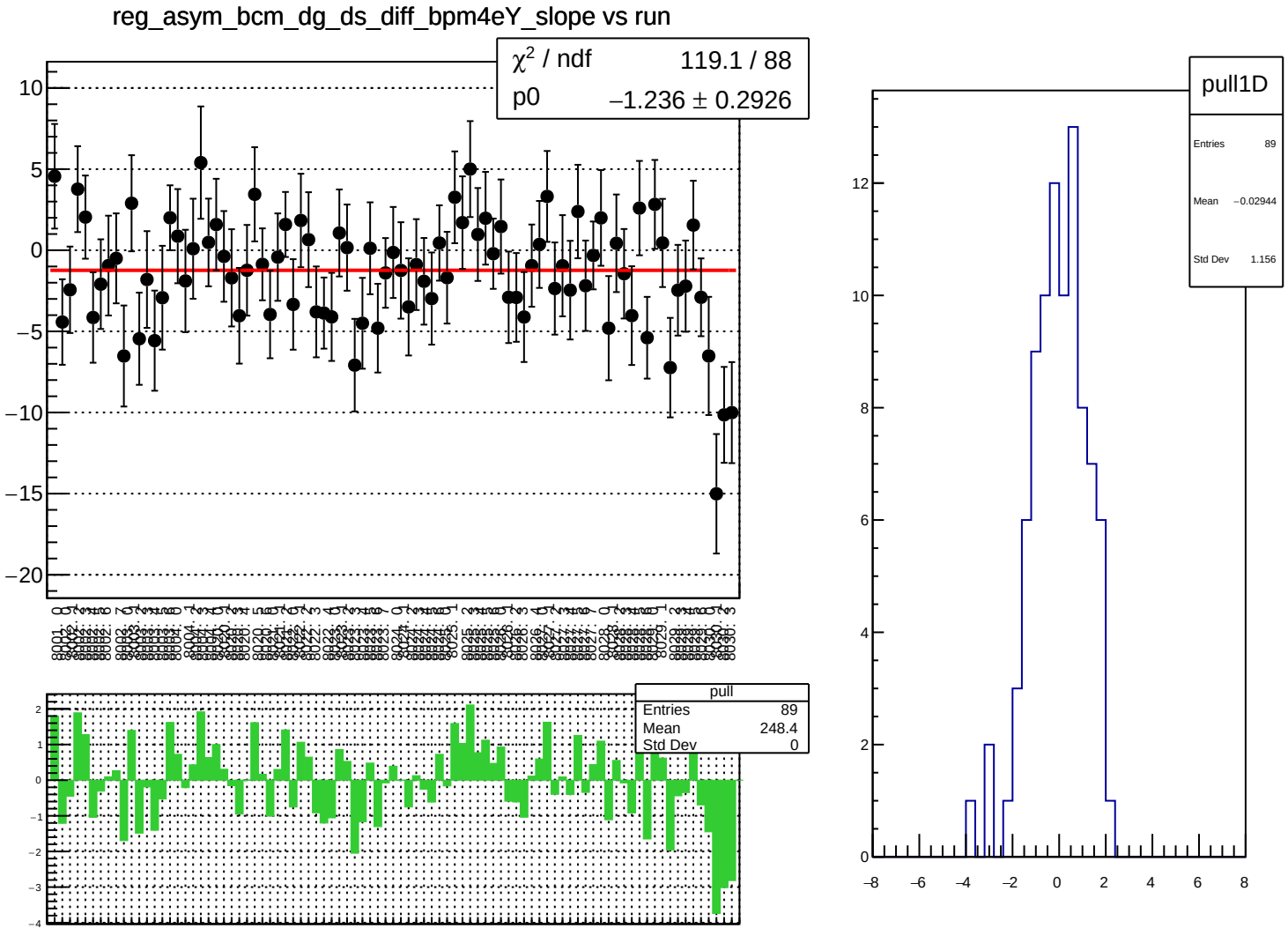

pull1D
Entries 89
Mean 0.2164
Std Dev 1.638

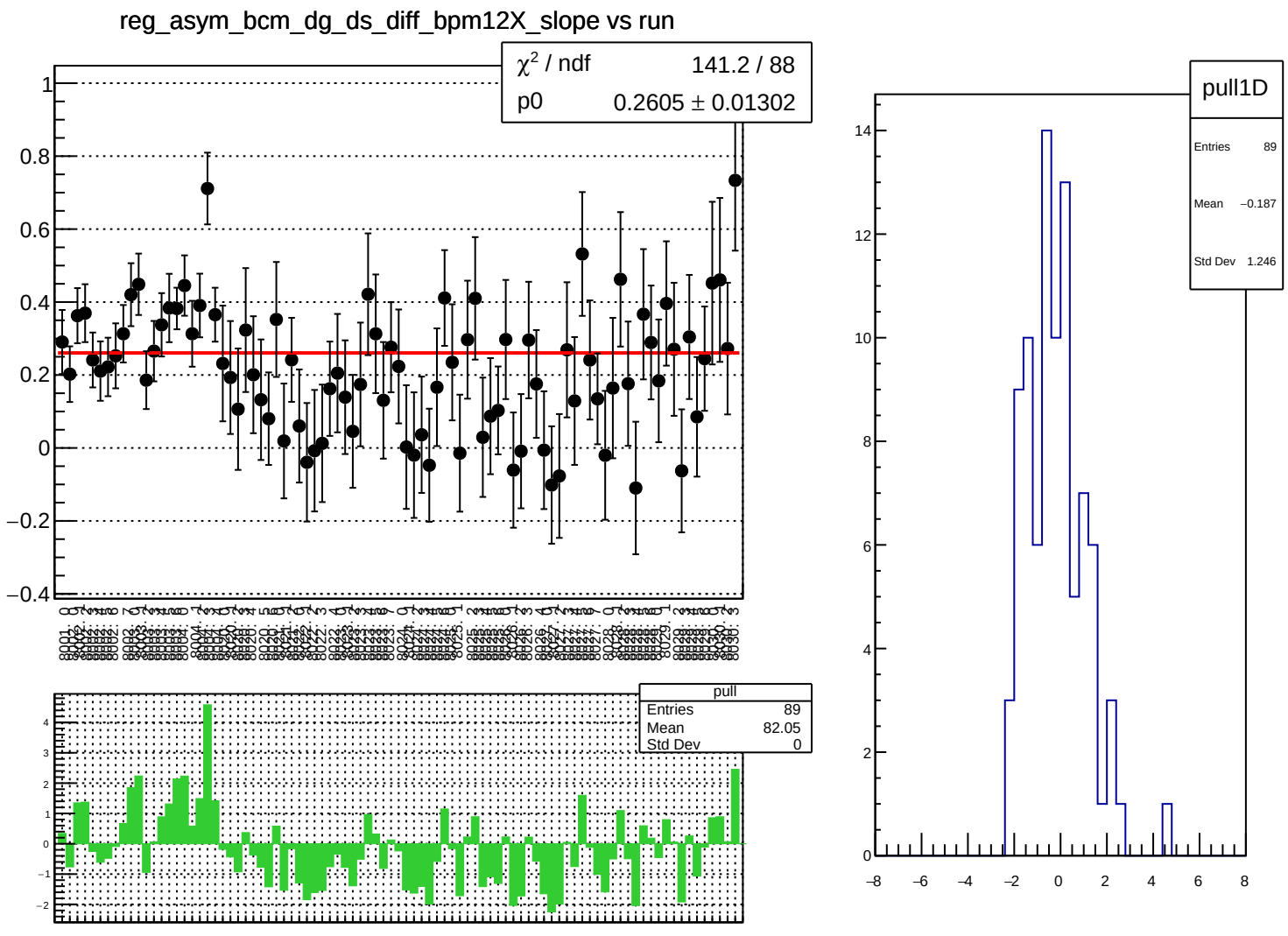

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 128.2 / 88
p0 0.7218 ± 0.272
pull
Entries 89
Mean 251.8
Std Dev 0

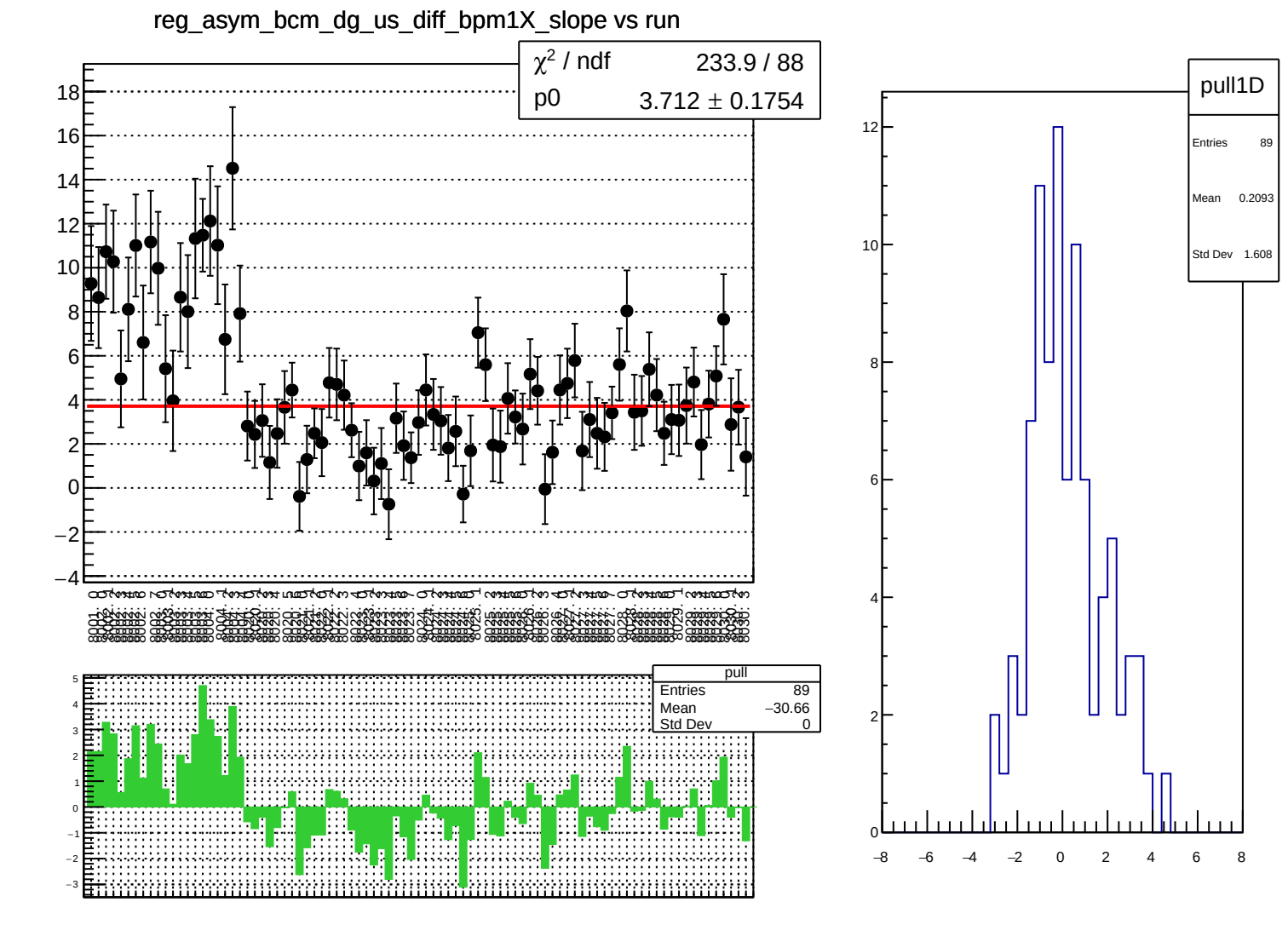

pull1D
Entries 89
Mean 0.03558
Std Dev 1.199

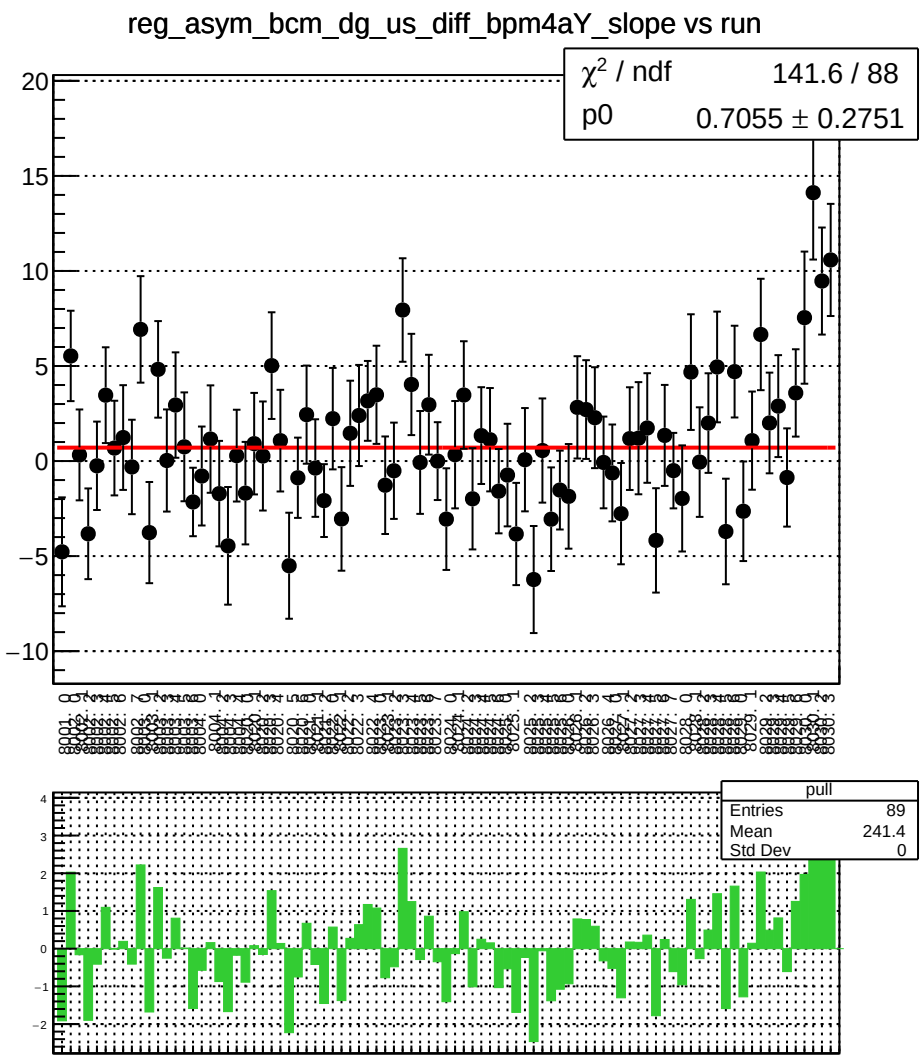

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 235.3 / 88
p0 −3.443 ± 0.181
pull
Entries 89
Mean −68.85
Std Dev 0

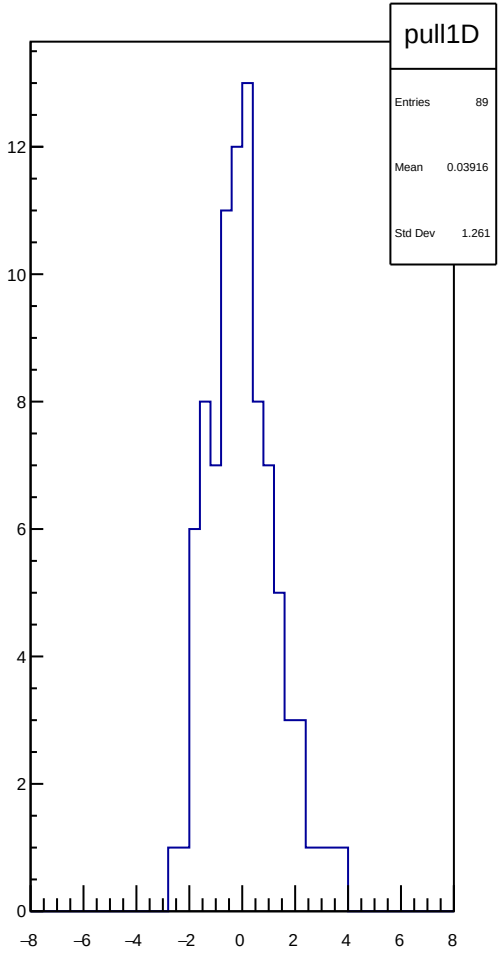

pull1D
Entries 89
Mean −0.1531
Std Dev 1.619

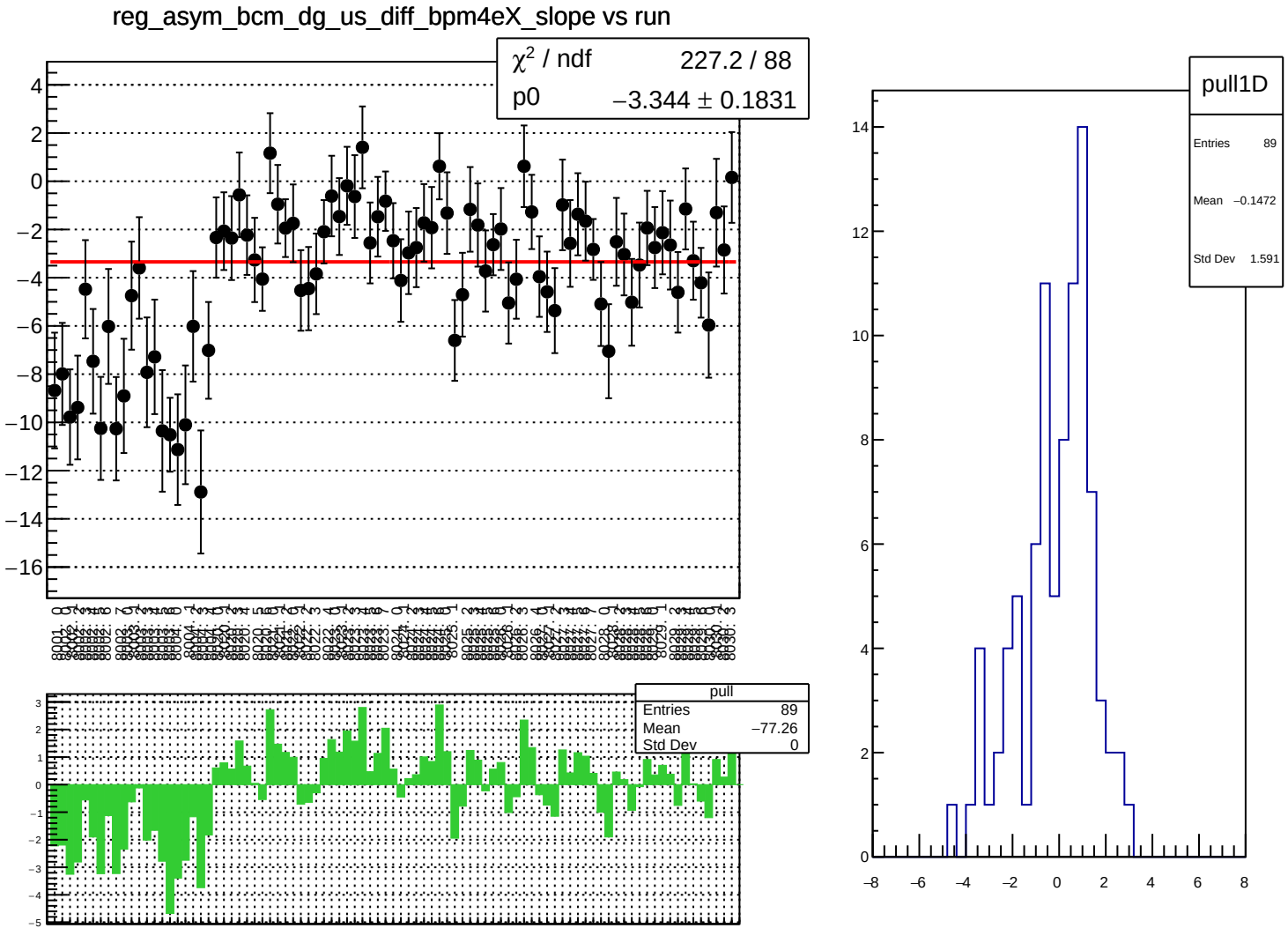

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 119.1 / 88
p0 −1.236 ± 0.2926
pull
Entries 89
Mean 248.4
Std Dev 0
pull1D
Entries 89
Mean −0.02944
Std Dev 1.156

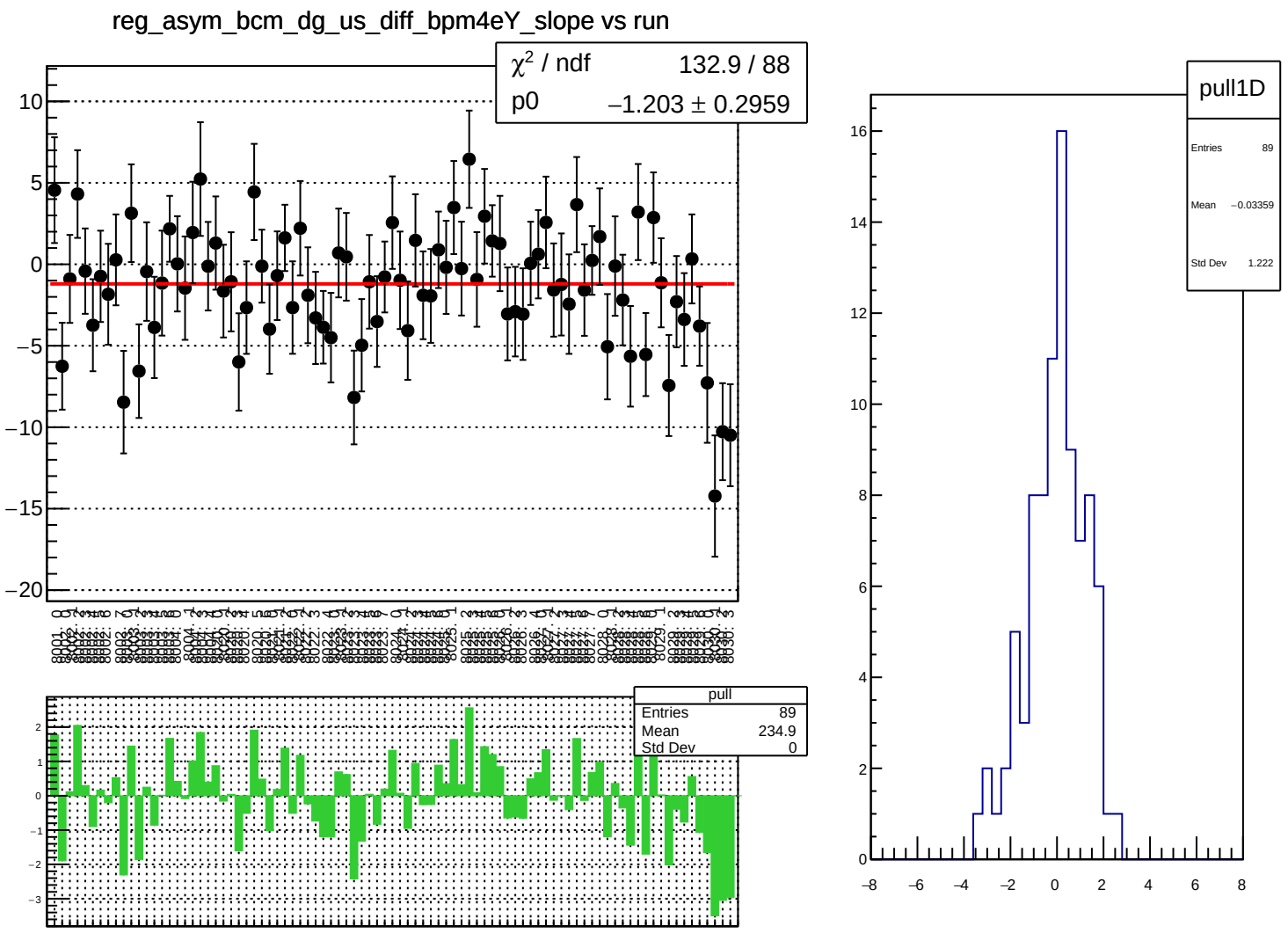

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 141.2 / 88
p0 0.2605 ± 0.01302
pull
Entries 89
Mean 82.05
Std Dev 0
pull1D
Entries 89
Mean −0.187
Std Dev 1.246

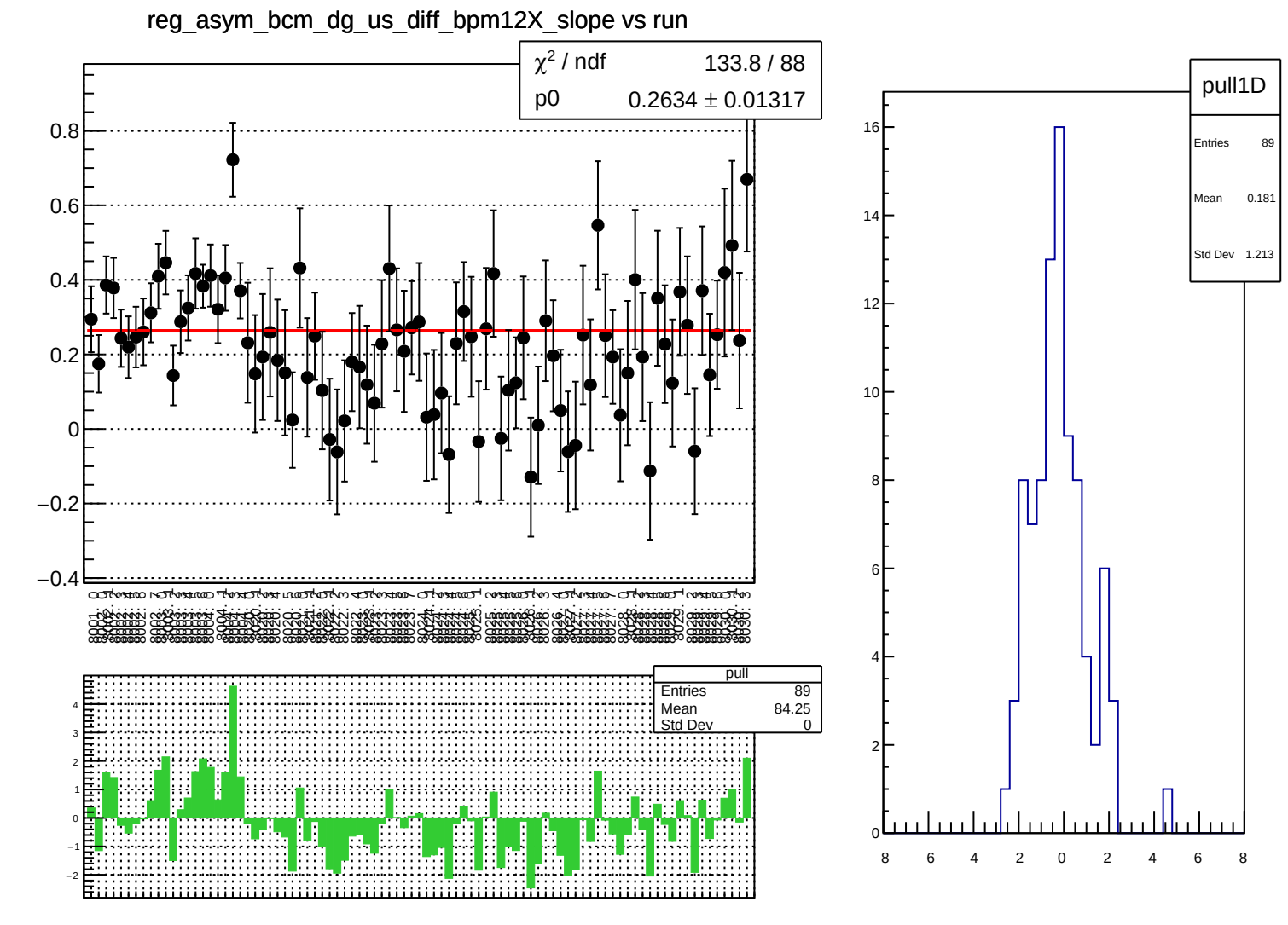

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 233.9 / 88
p0 3.712 ± 0.1754
pull
Entries 89
Mean −30.66
Std Dev 0
pull1D
Entries 89
Mean 0.2093
Std Dev 1.608

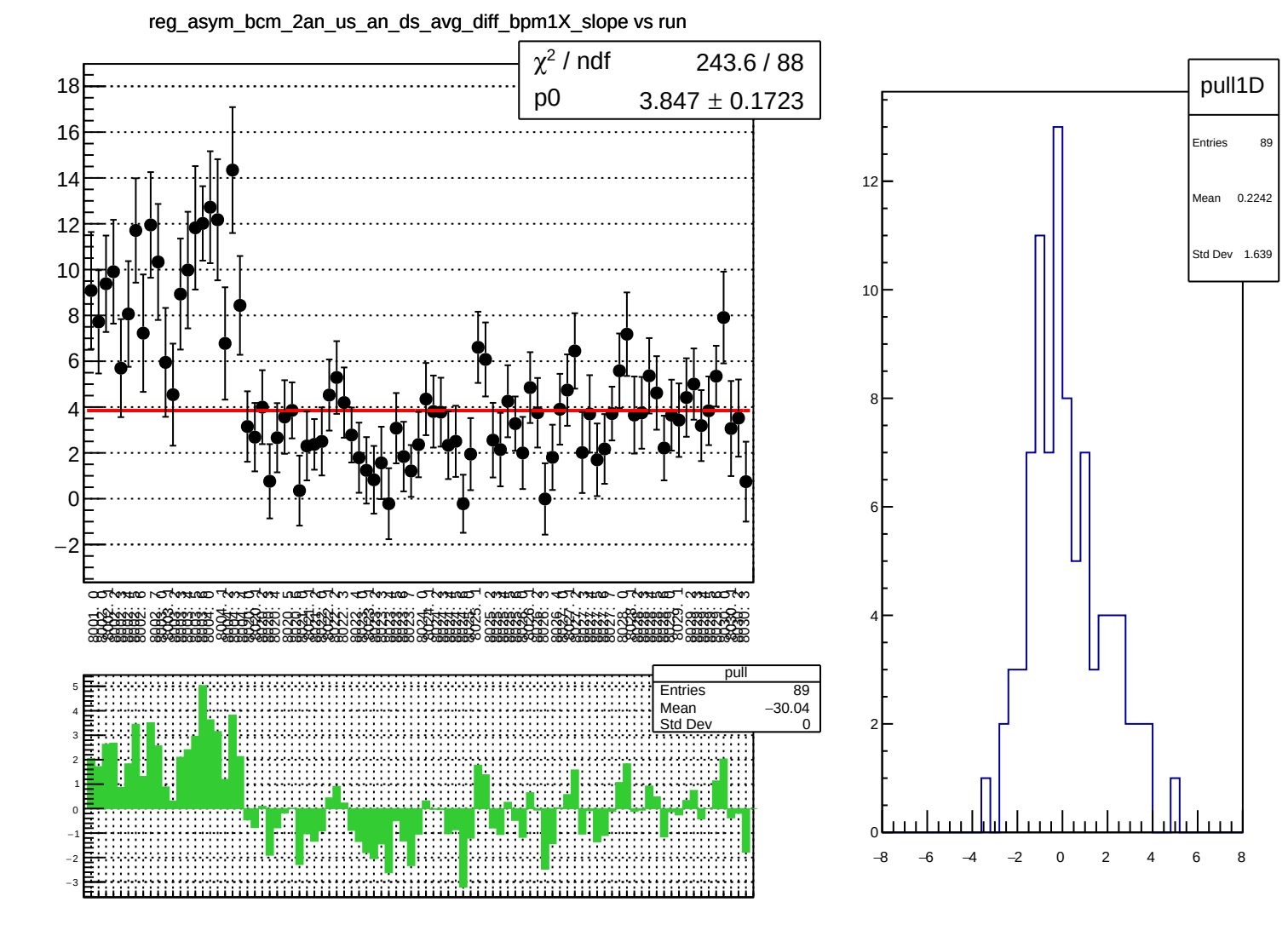

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 141.6 / 88
p0 0.7055 ± 0.2751
pull
Entries 89
Mean 241.4
Std Dev 0

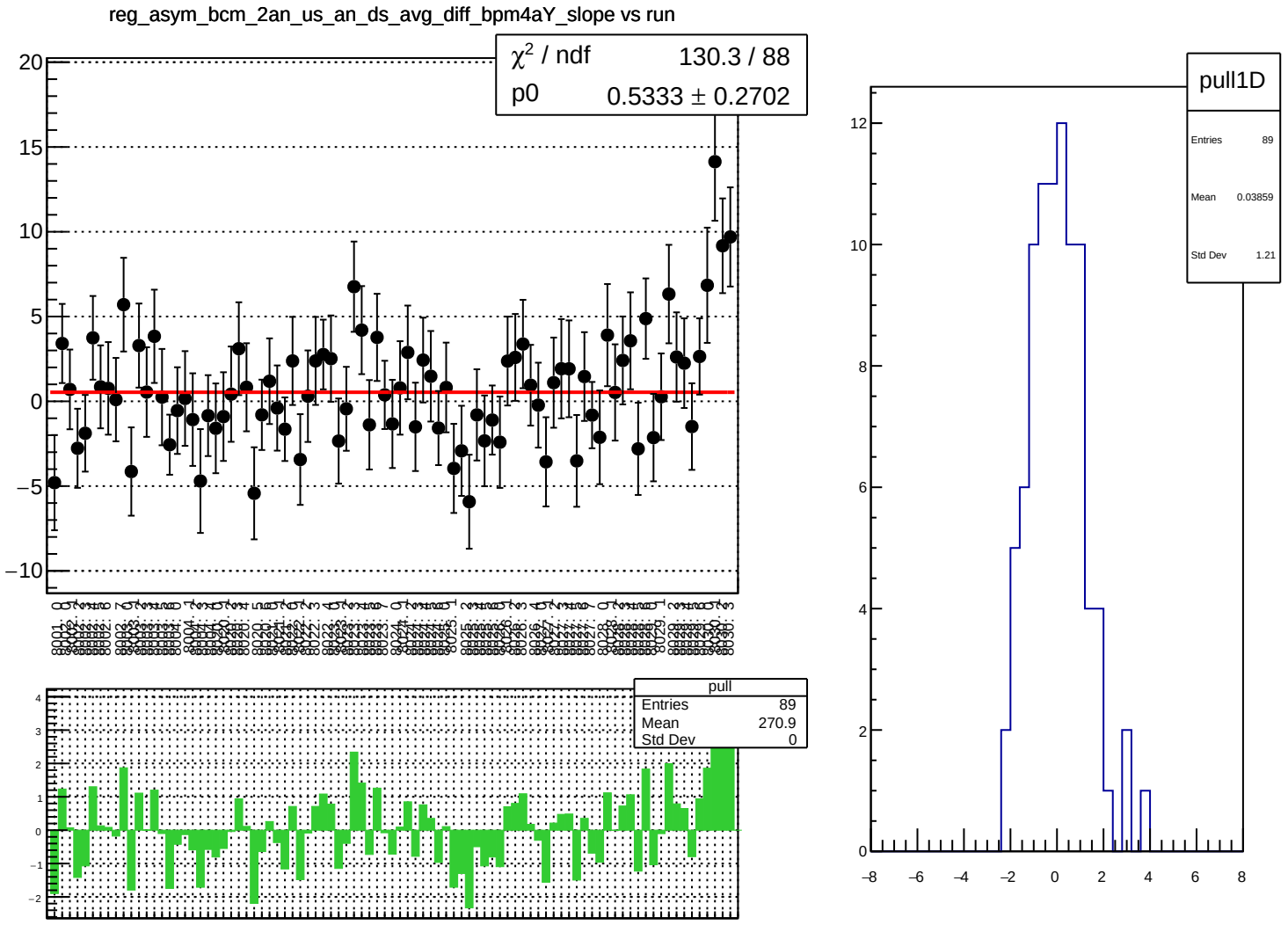

pull1D
Entries 89
Mean 0.03916
Std Dev 1.261

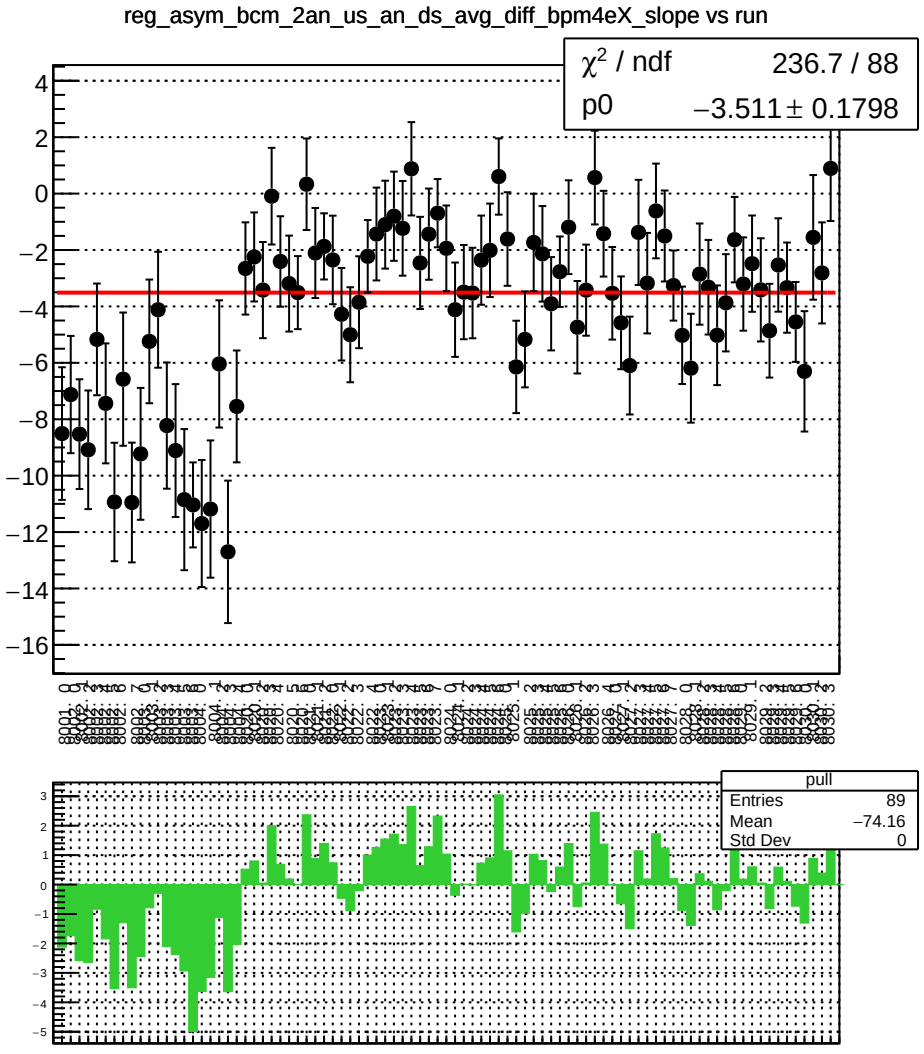

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 227.2 / 88
p0 −3.344 ± 0.1831
pull
Entries 89
Mean −77.26
Std Dev 0
pull1D
Entries 89
Mean −0.1472
Std Dev 1.591

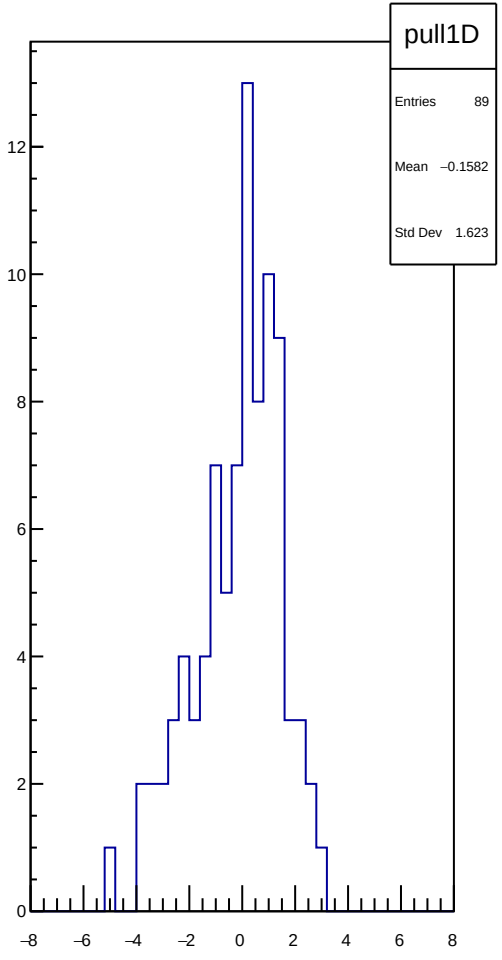

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 132.9 / 88
p0 −1.203 ± 0.2959
pull
Entries 89
Mean 234.9
Std Dev 0
pull1D
Entries 89
Mean −0.03359
Std Dev 1.222

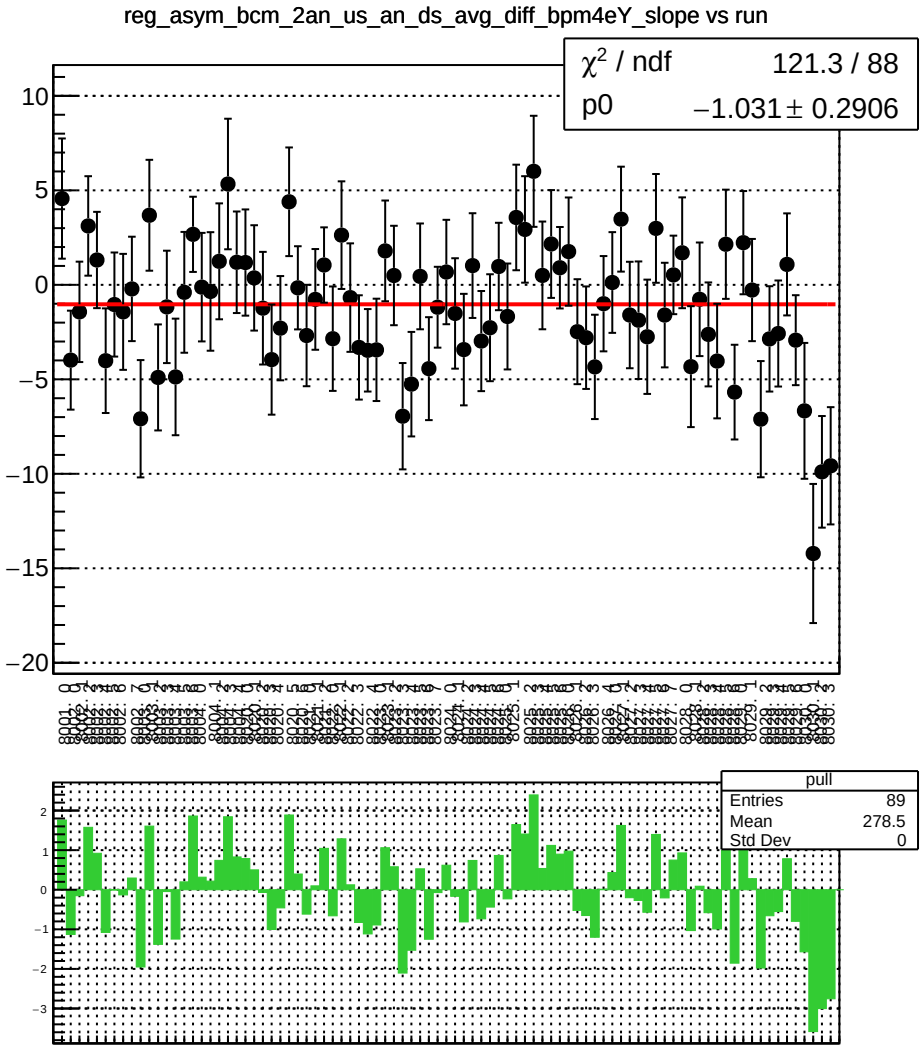

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 133.8 / 88
p0 0.2634 ± 0.01317
pull
Entries 89
Mean 84.25
Std Dev 0
pull1D
Entries 89
Mean −0.181
Std Dev 1.213

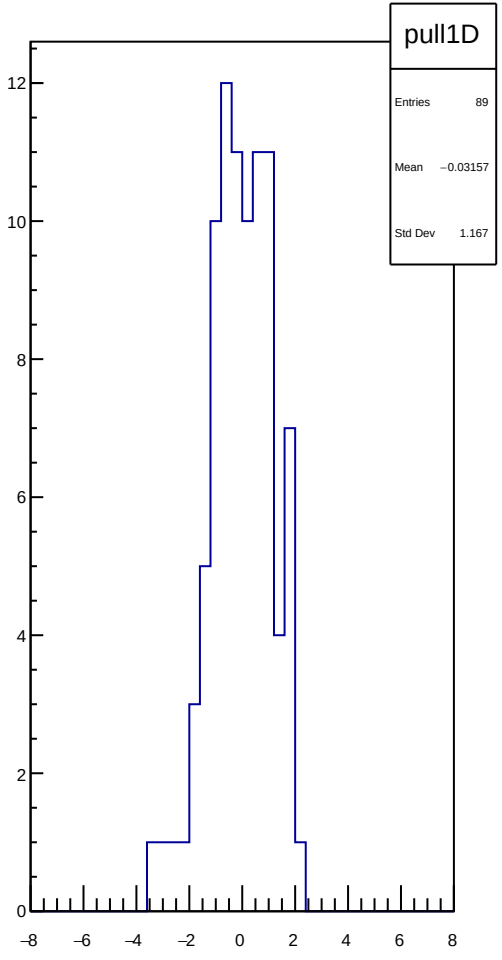

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 243.6 / 88
p0 3.847 ± 0.1723
pull
Entries 89
Mean −30.04
Std Dev 0
pull1D
Entries 89
Mean 0.2242
Std Dev 1.639

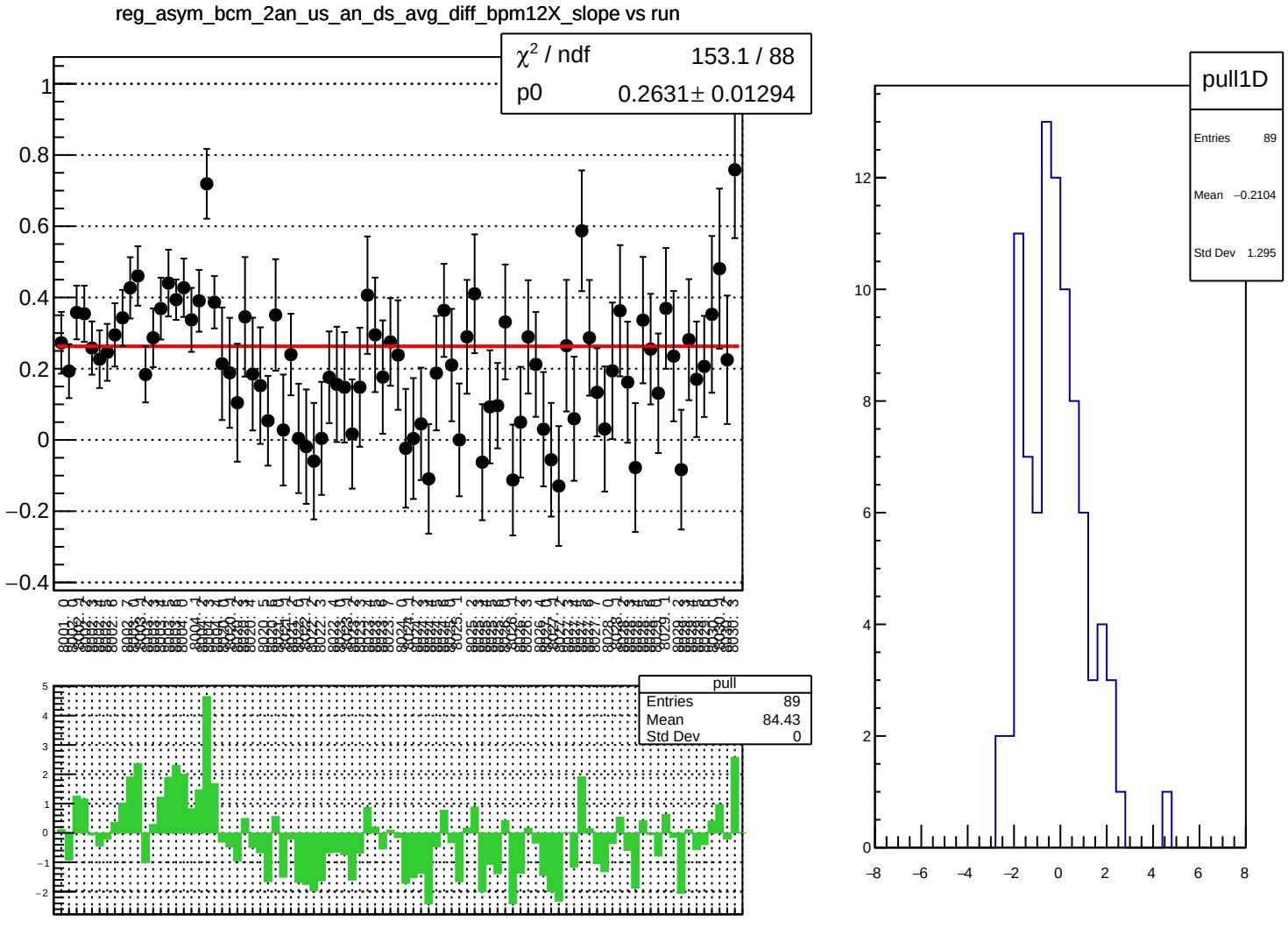

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 130.3 / 88
p0 0.5333 ± 0.2702
pull
Entries 89
Mean 270.9
Std Dev 0
pull1D
Entries 89
Mean 0.03859
Std Dev 1.21

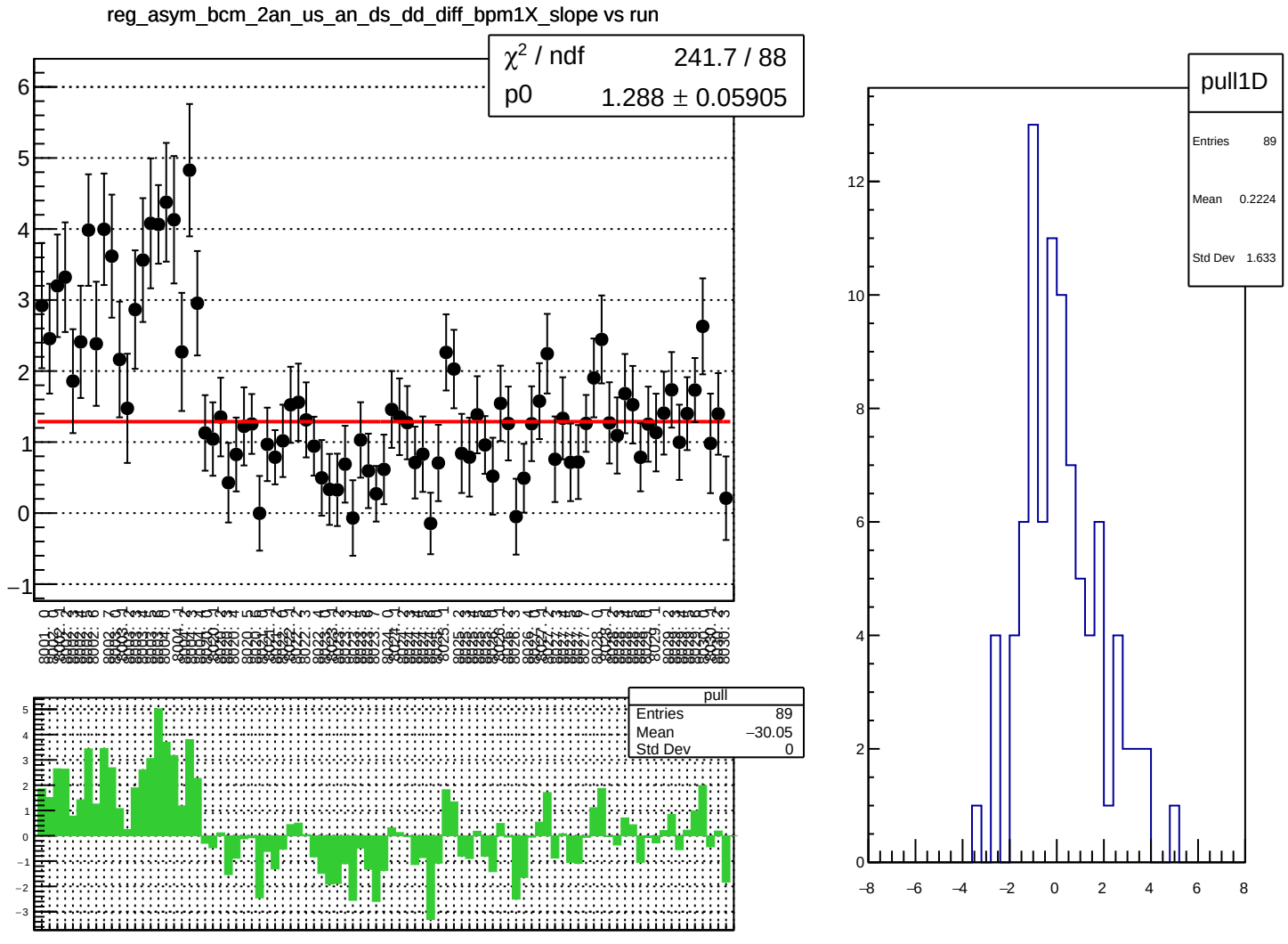

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 236.7 / 88
p0 −3.511 ± 0.1798
pull
Entries 89
Mean −74.16
Std Dev 0

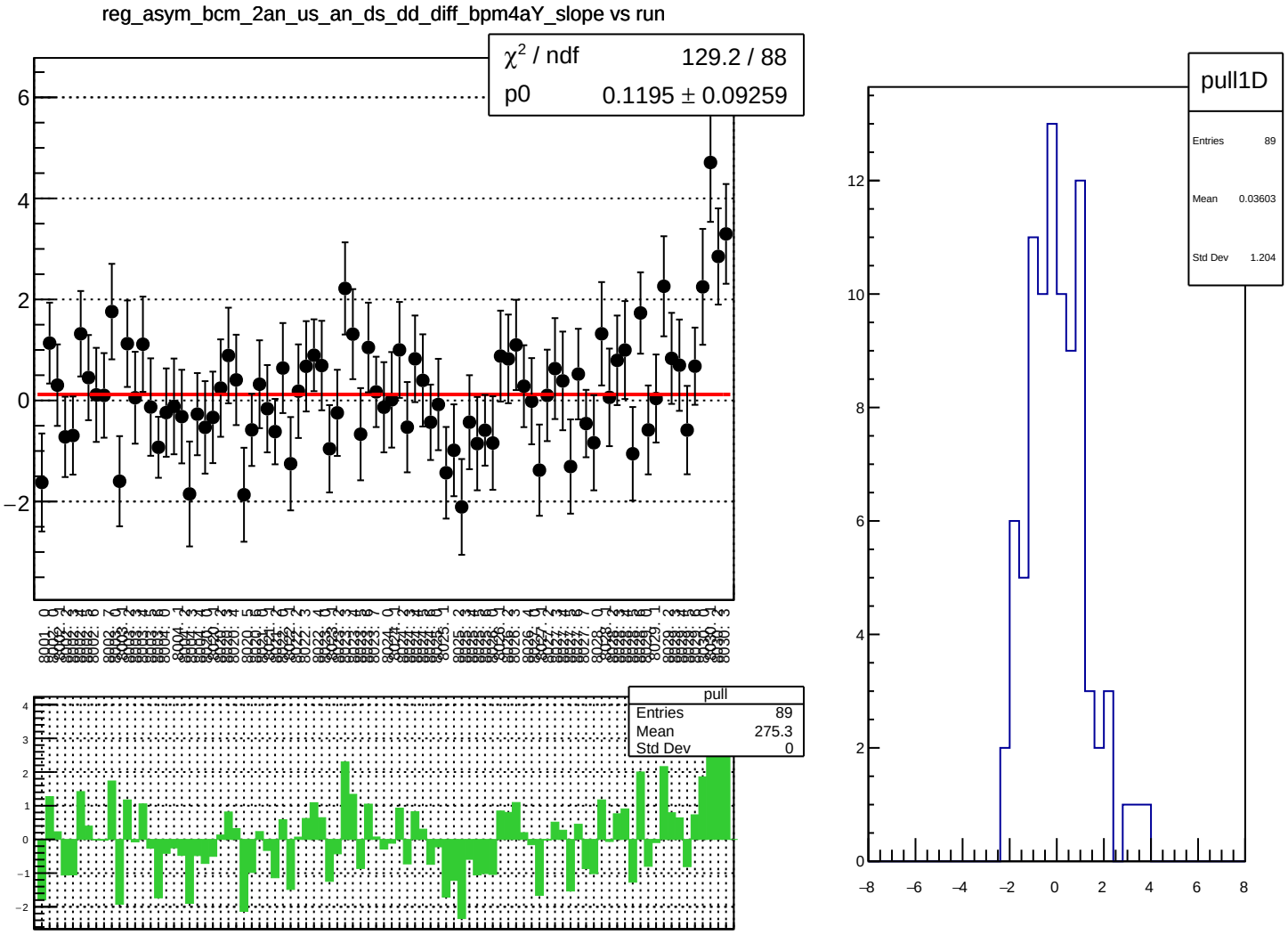

pull1D
Entries 89
Mean −0.1582
Std Dev 1.623

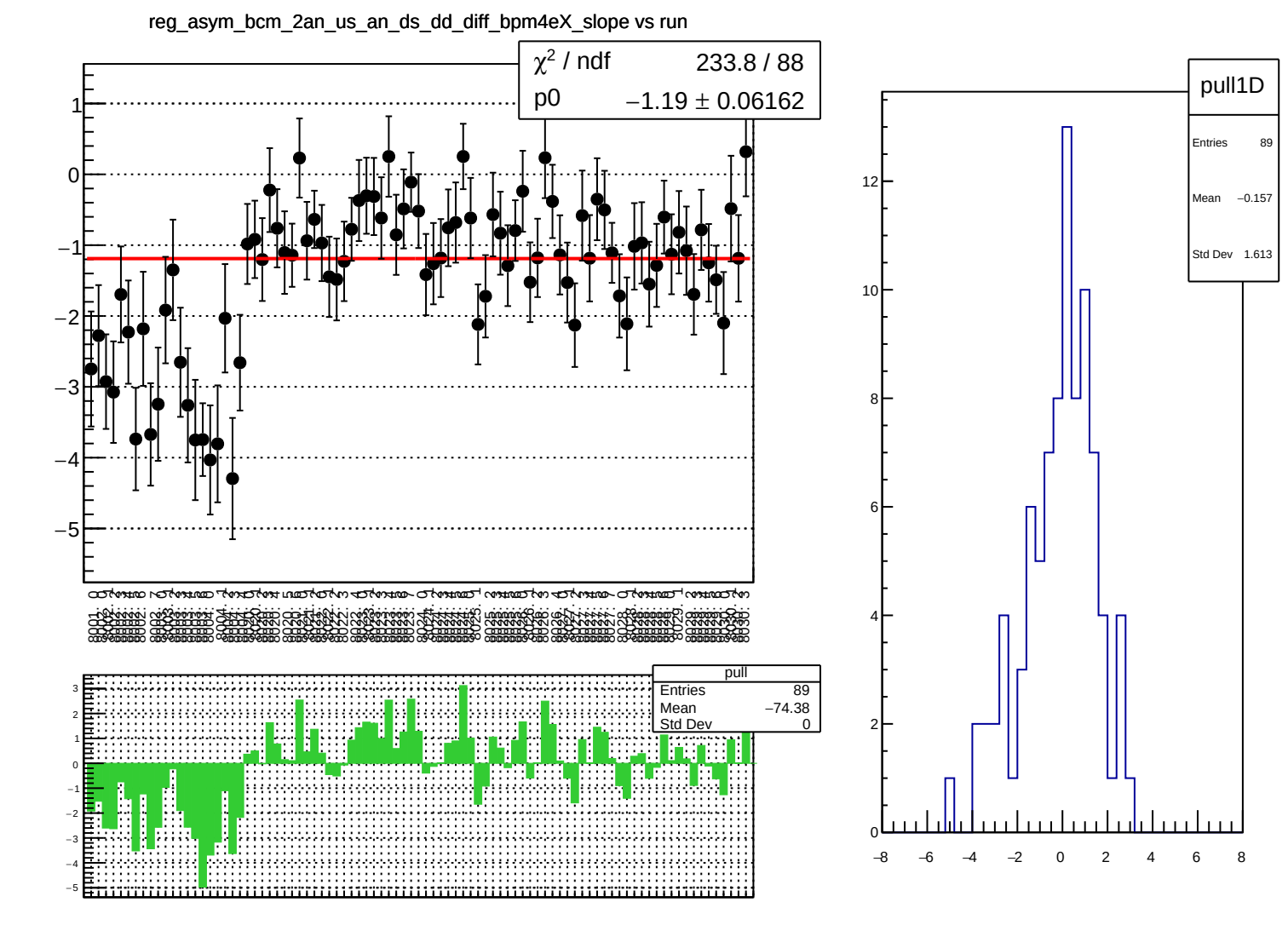

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 121.3 / 88
p0 −1.031 ± 0.2906
pull
Entries 89
Mean 278.5
Std Dev 0

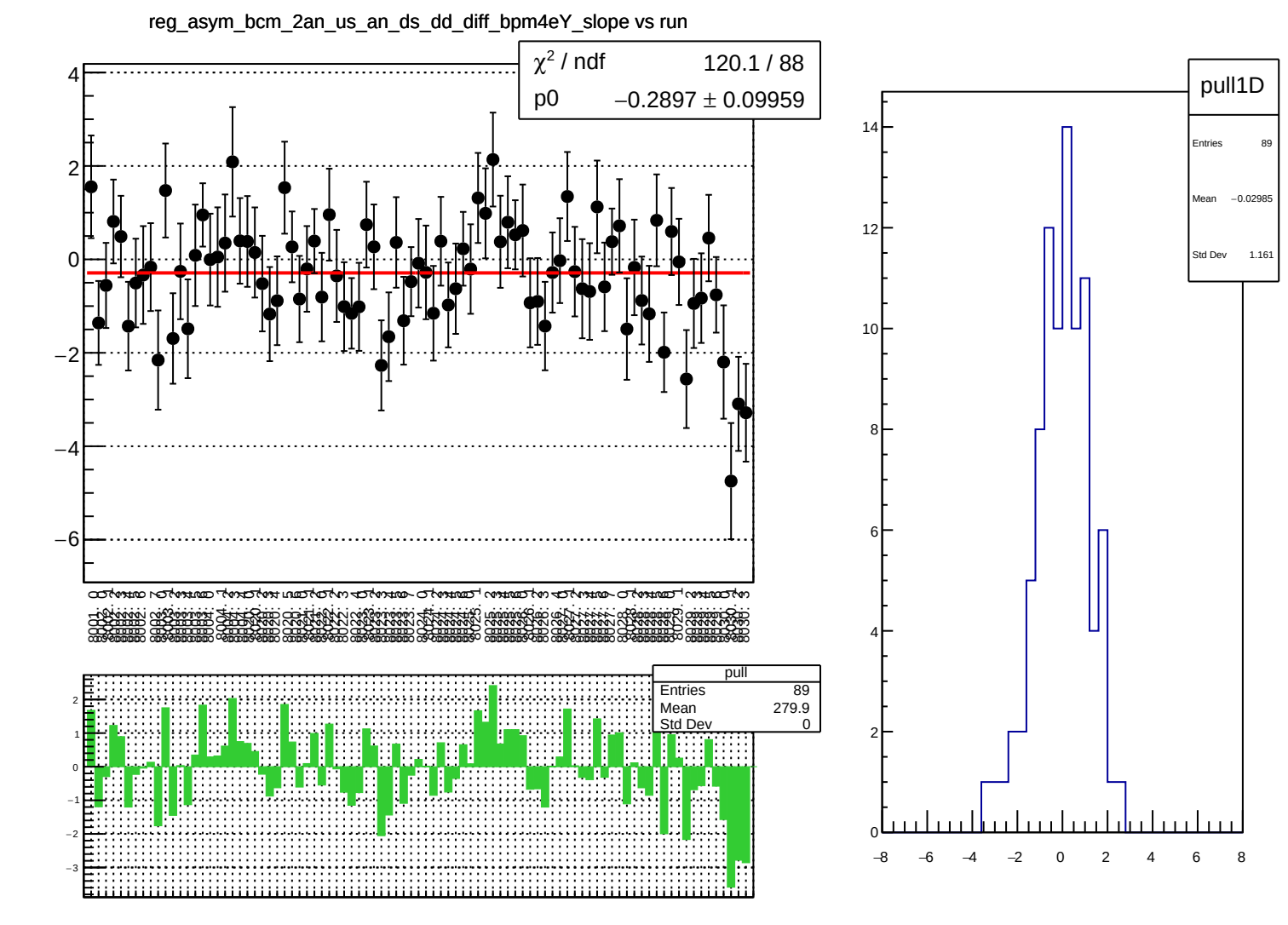

pull1D
Entries 89
Mean −0.03157
Std Dev 1.167

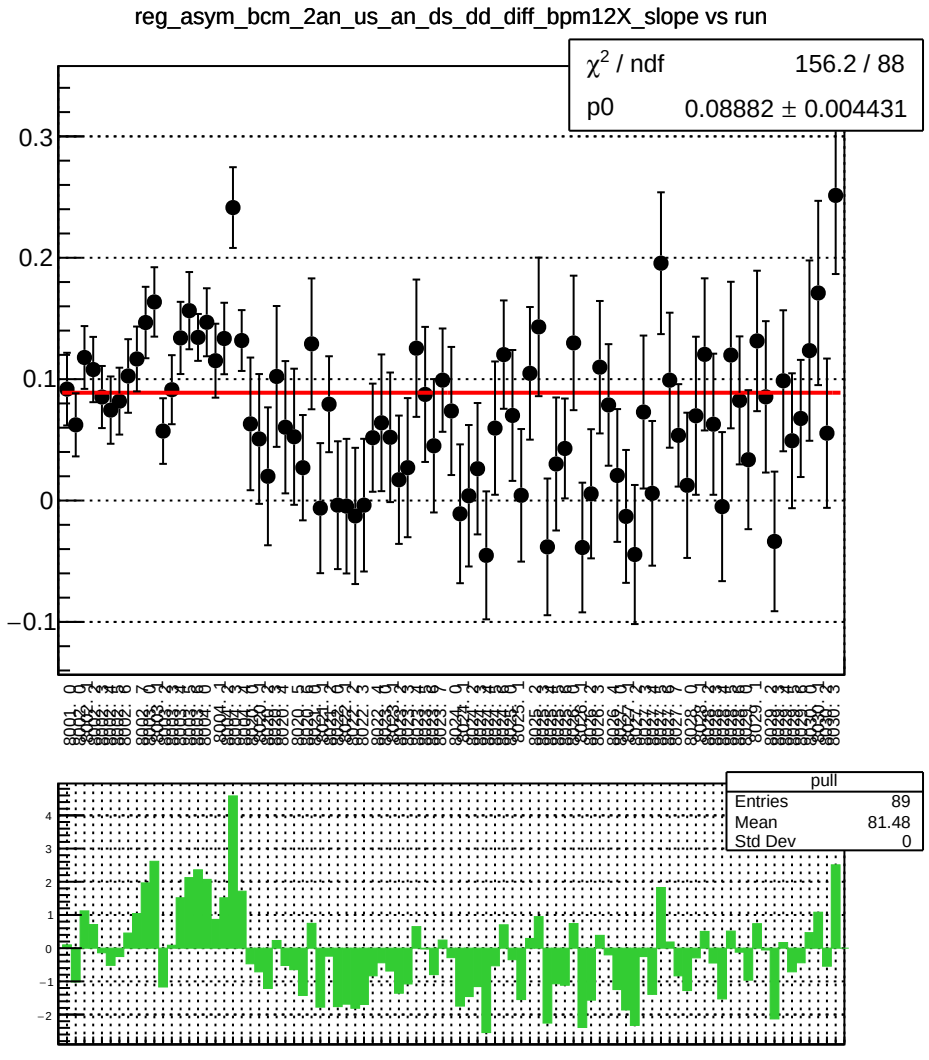

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 153.1 / 88
p0 0.2631± 0.01294
pull
Entries 89
Mean 84.43
Std Dev 0
pull1D
Entries 89
Mean −0.2104
Std Dev 1.295

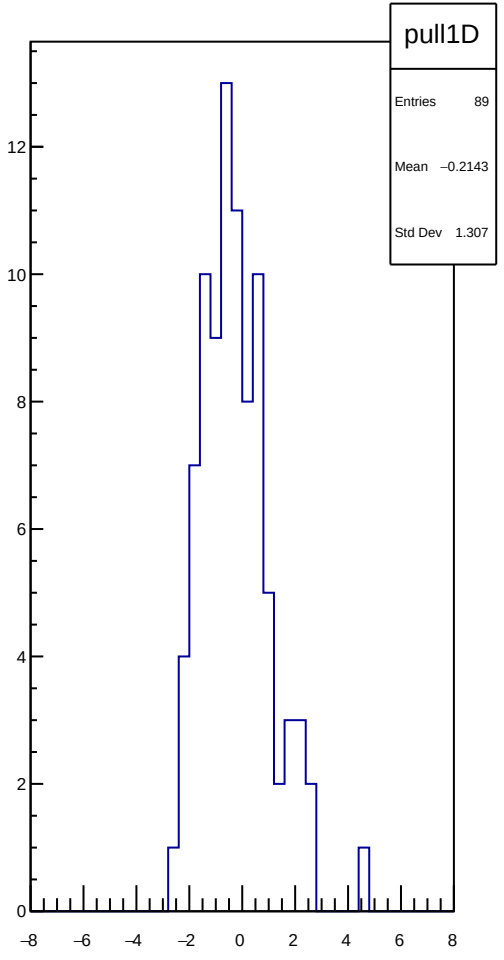

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 241.7 / 88
p0 1.288 ± 0.05905
pull
Entries 89
Mean −30.05
Std Dev 0
pull1D
Entries 89
Mean 0.2224
Std Dev 1.633

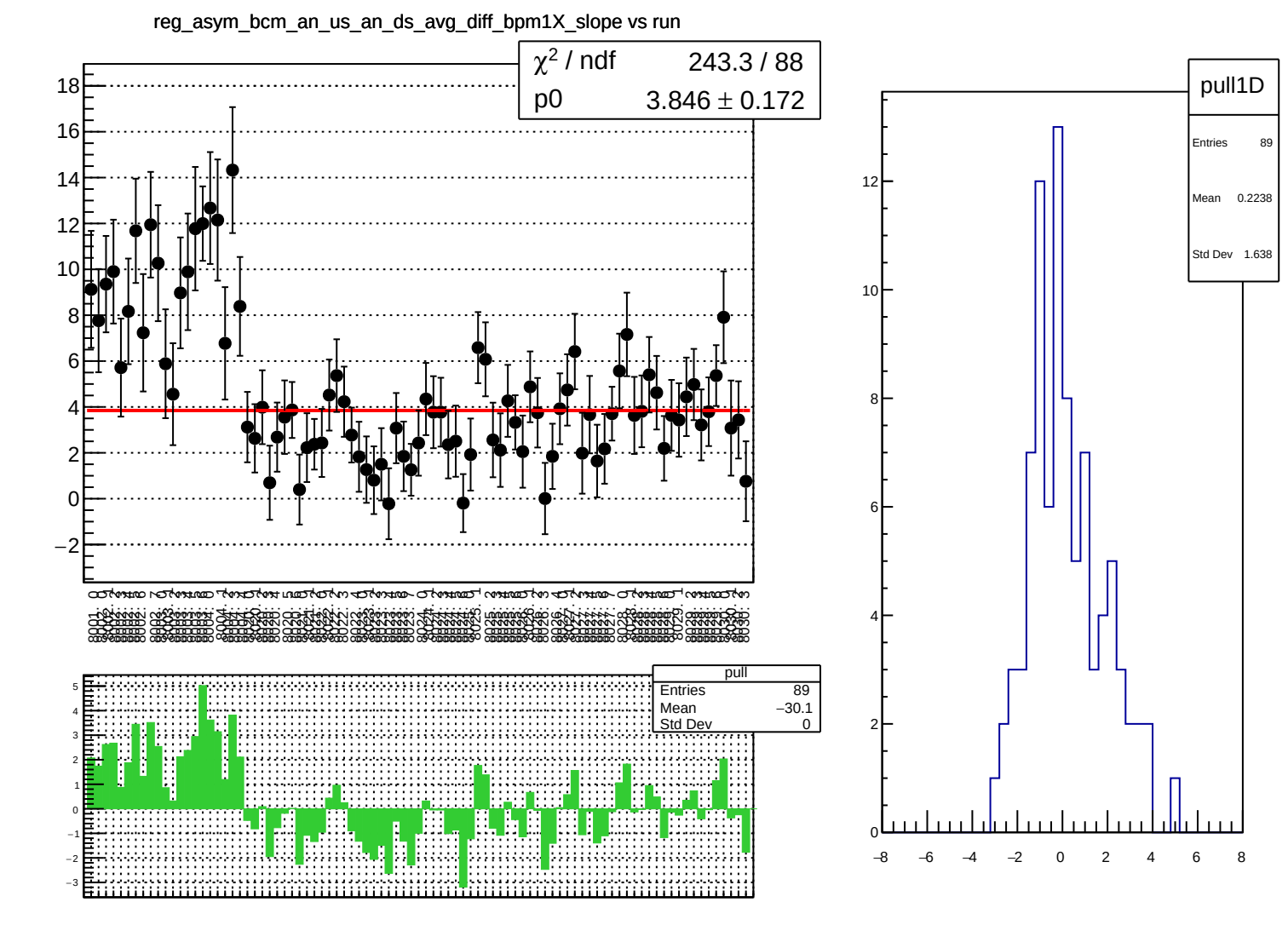

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 129.2 / 88
p0 0.1195 ± 0.09259
pull
Entries 89
Mean 275.3
Std Dev 0
pull1D
Entries 89
Mean 0.03603
Std Dev 1.204

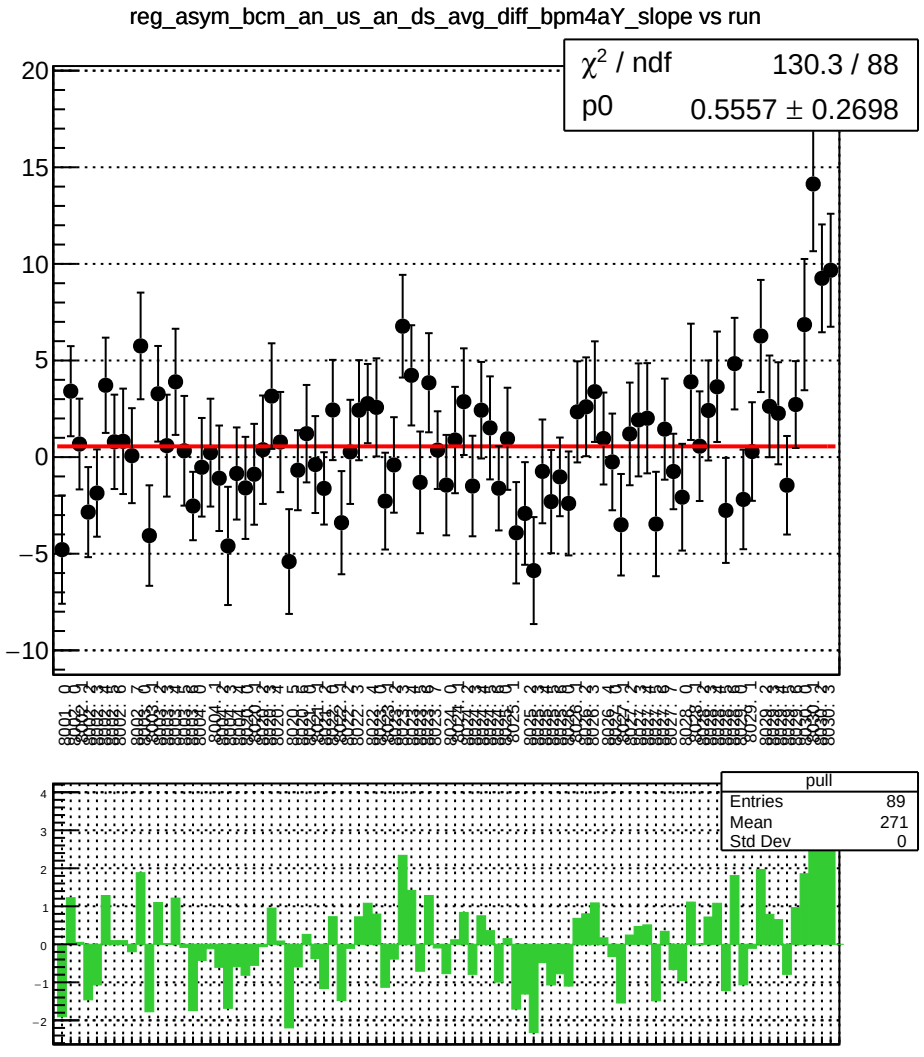

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 233.8 / 88
p0 −1.19 ± 0.06162
pull
Entries 89
Mean −74.38
Std Dev 0
pull1D
Entries 89
Mean −0.157
Std Dev 1.613

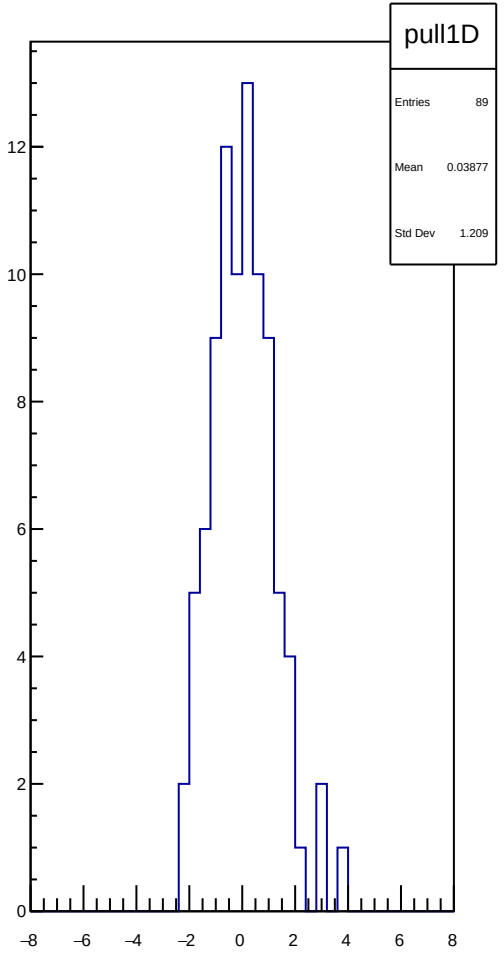

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 120.1 / 88
p0 −0.2897 ± 0.09959
pull
Entries 89
Mean 279.9
Std Dev 0
pull1D
Entries 89
Mean −0.02985
Std Dev 1.161

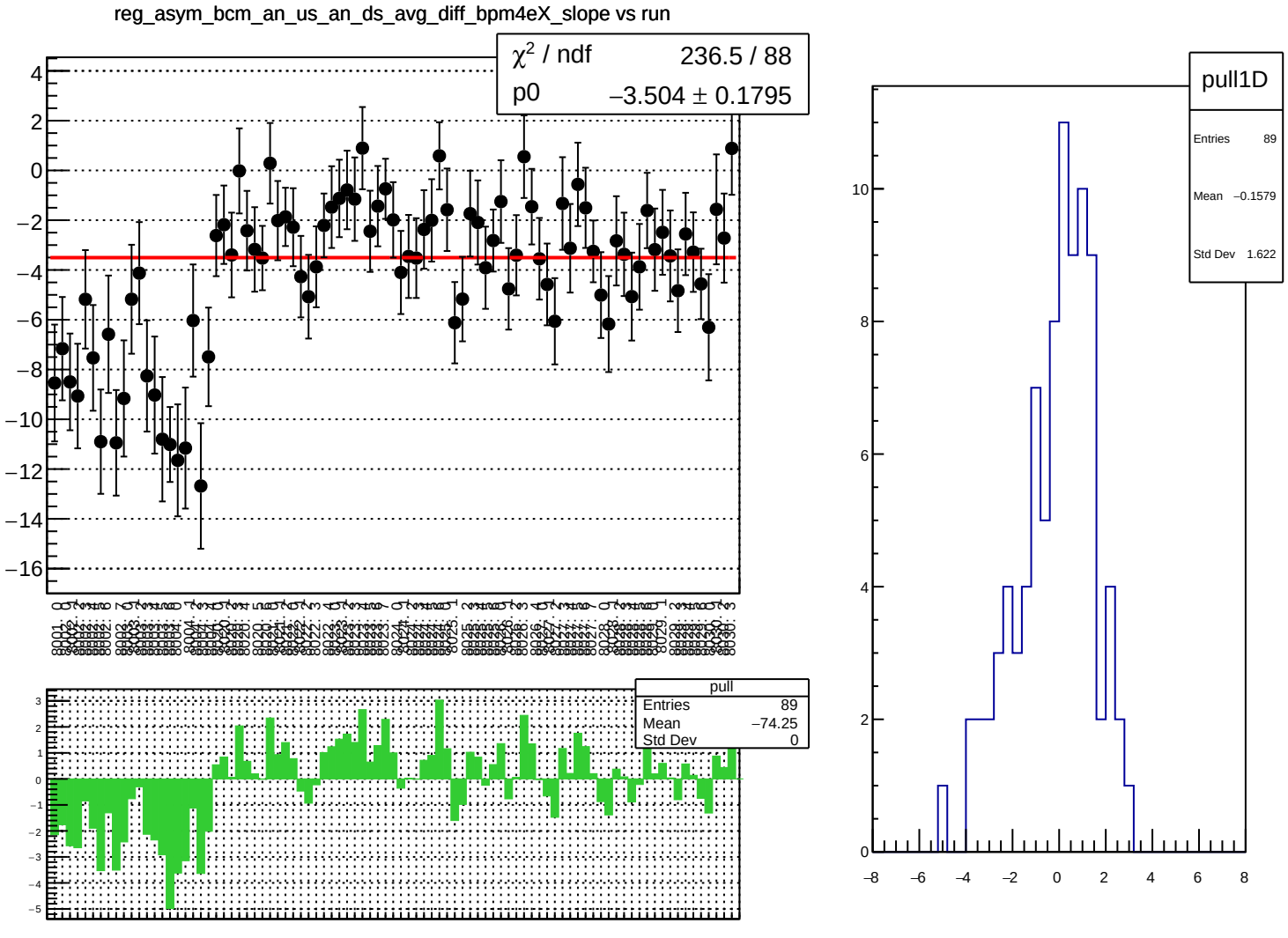

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 156.2 / 88
p0 0.08882 ± 0.004431
pull
Entries 89
Mean 81.48
Std Dev 0

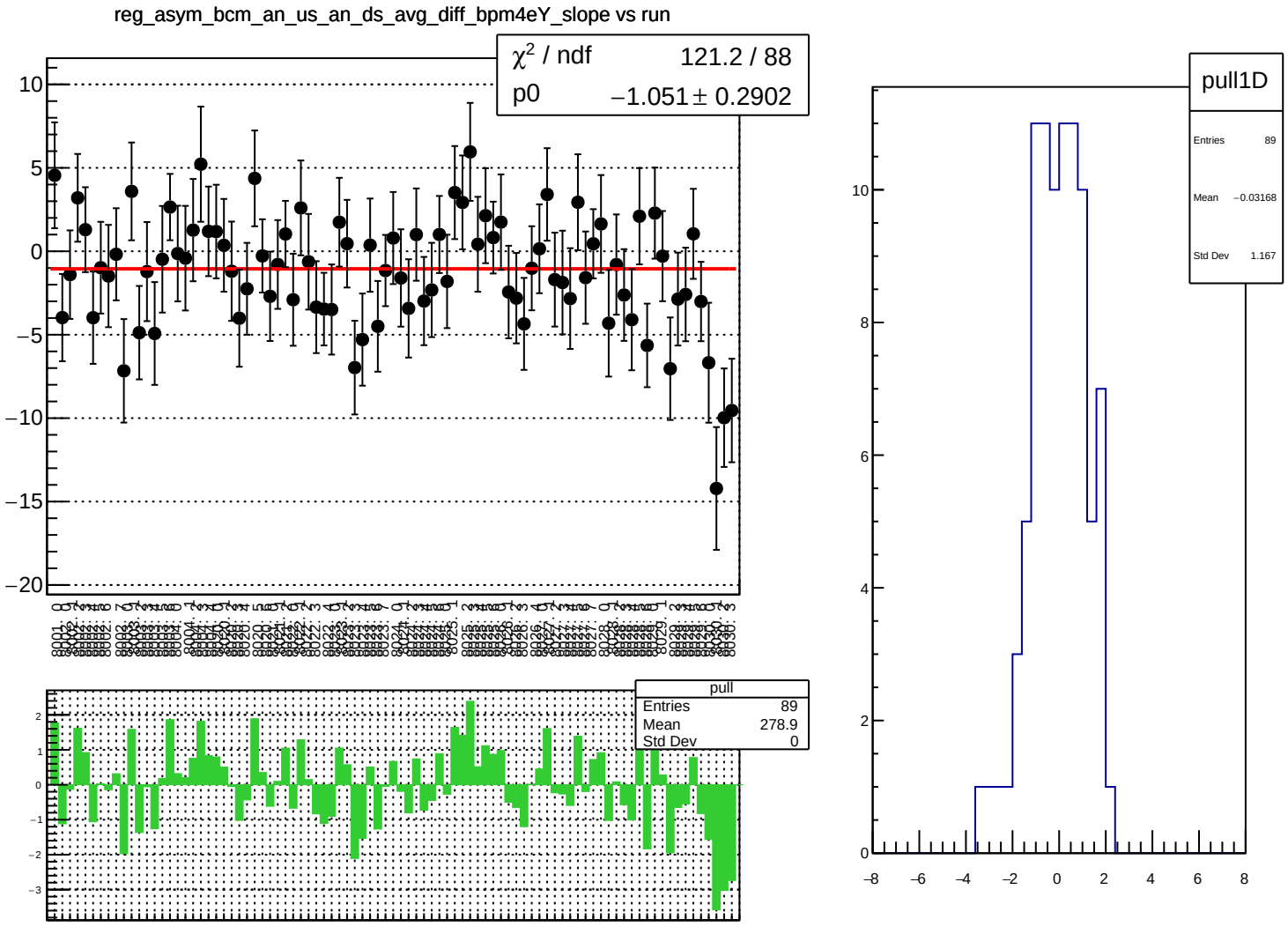

pull1D
Entries 89
Mean −0.2143
Std Dev 1.307

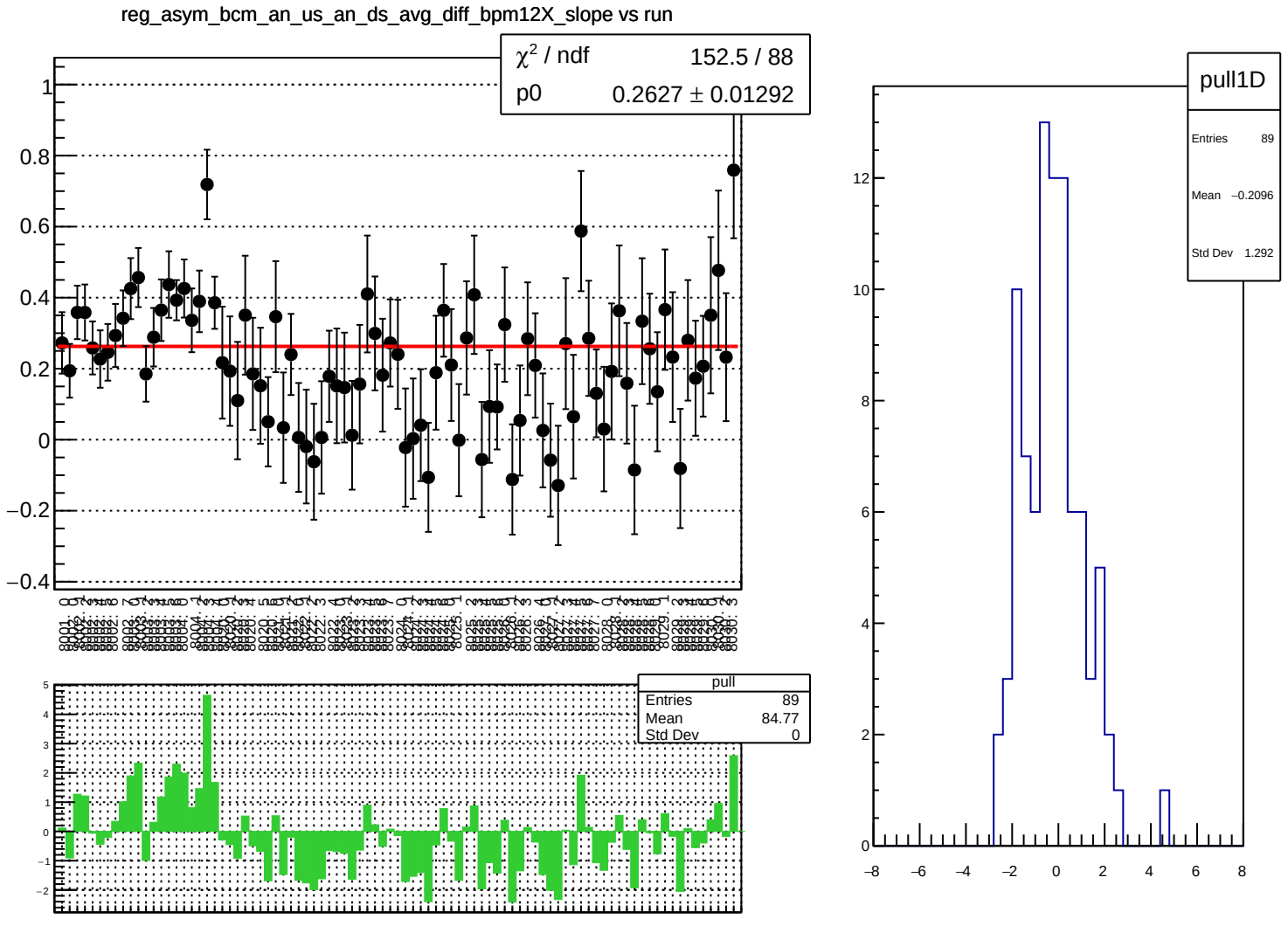

reg_asym_bcm_an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 243.3 / 88
p0 3.846 ± 0.172
pull
Entries 89
Mean −30.1
Std Dev 0
pull1D
Entries 89
Mean 0.2238
Std Dev 1.638

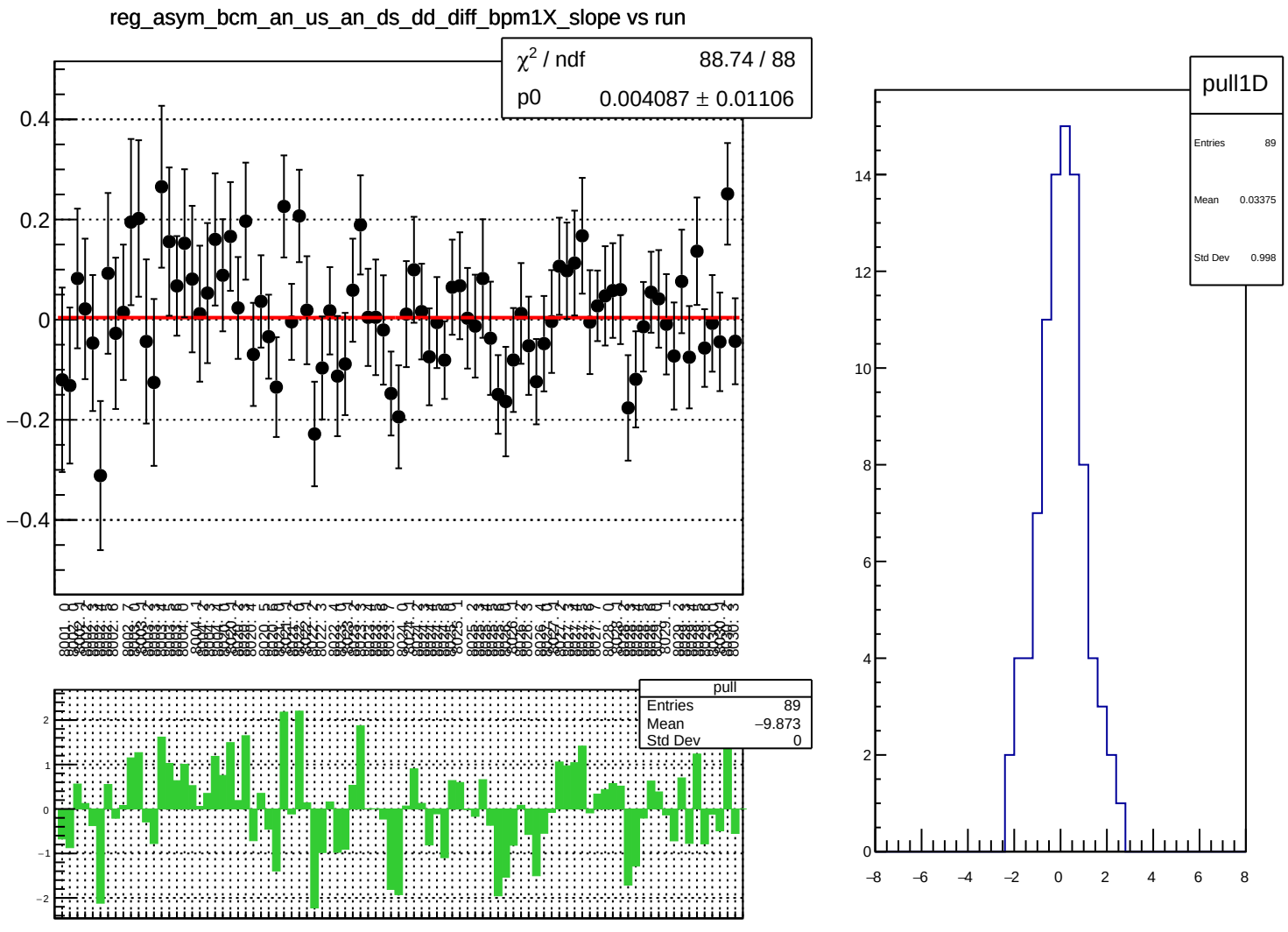

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 130.3 / 88
p0 0.5557 ± 0.2698
pull
Entries 89
Mean 271
Std Dev 0

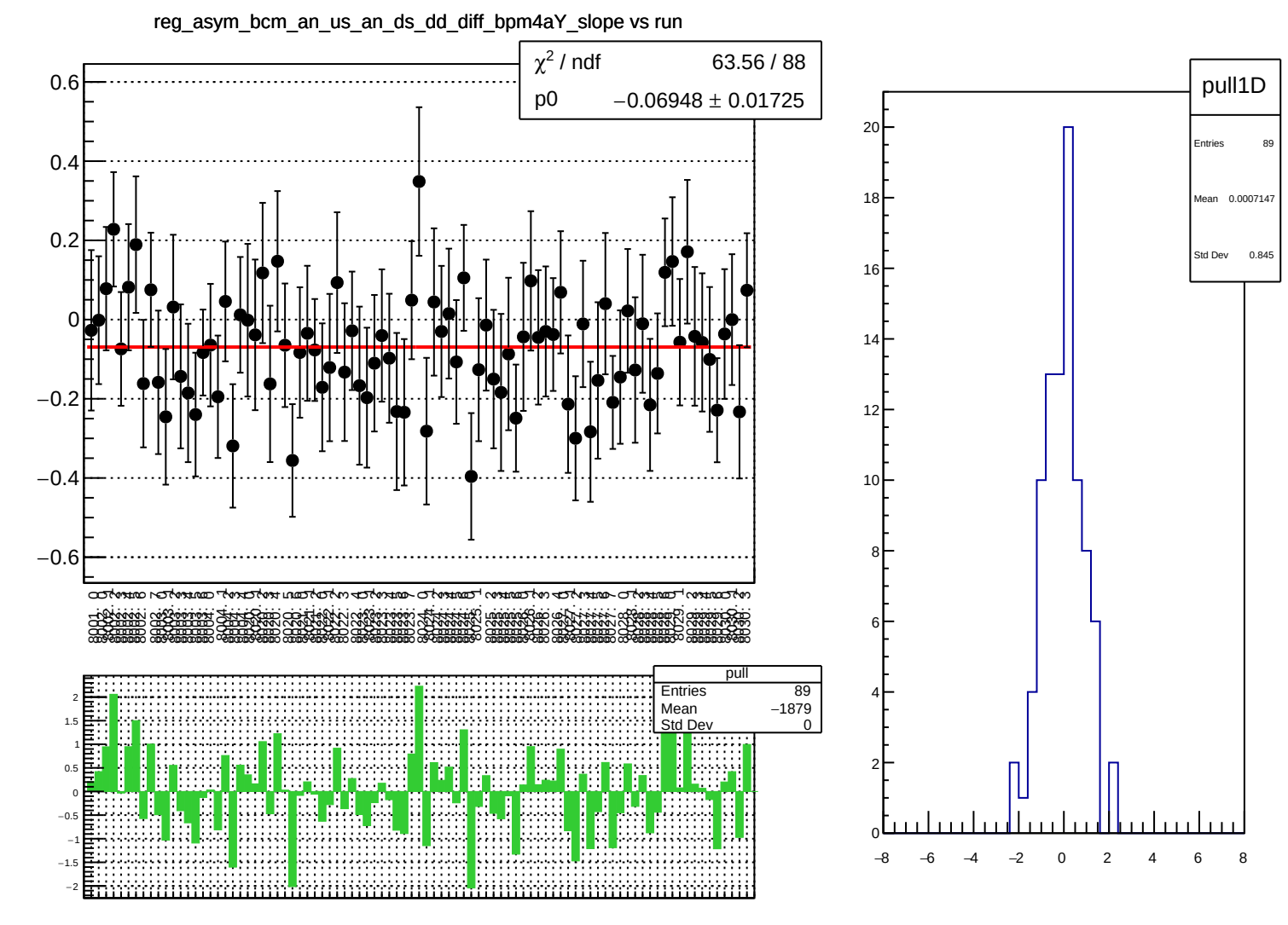

pull1D
Entries 89
Mean 0.03877
Std Dev 1.209

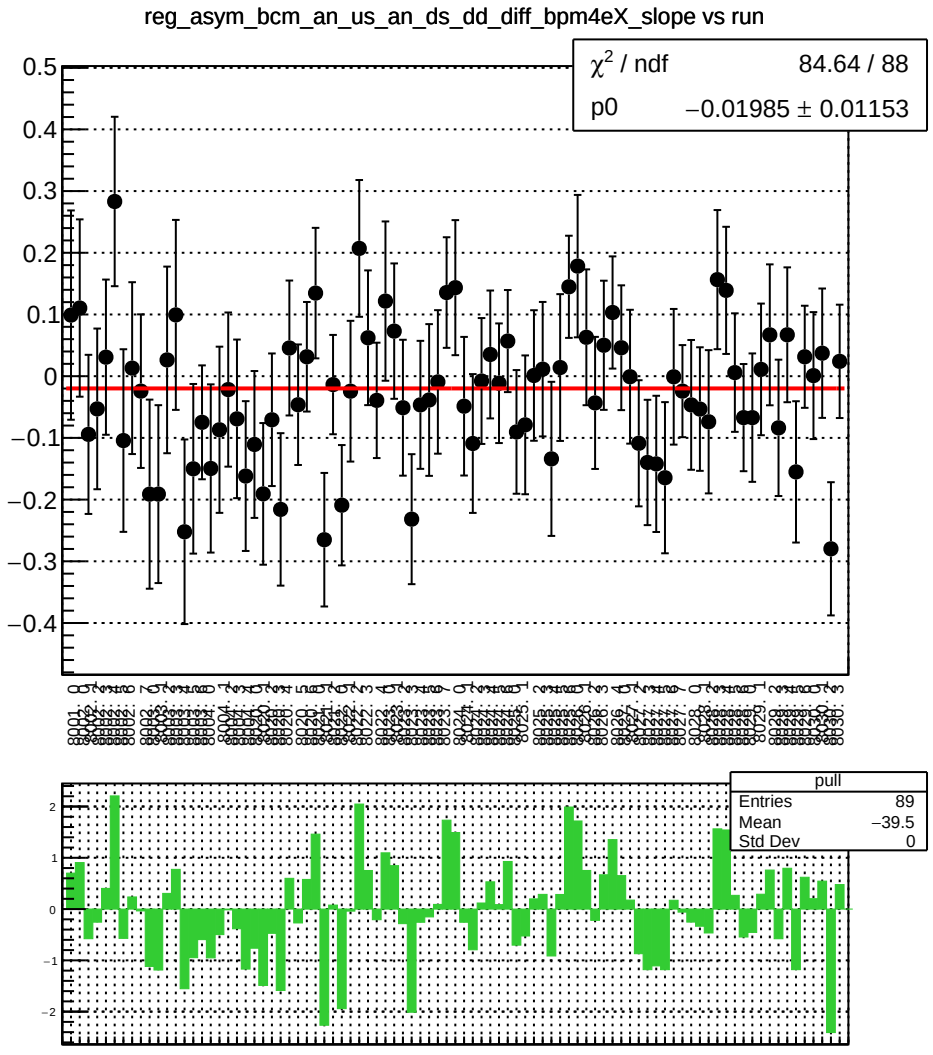

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 236.5 / 88
p0 −3.504 ± 0.1795
pull
Entries 89
Mean −74.25
Std Dev 0
pull1D
Entries 89
Mean −0.1579
Std Dev 1.622

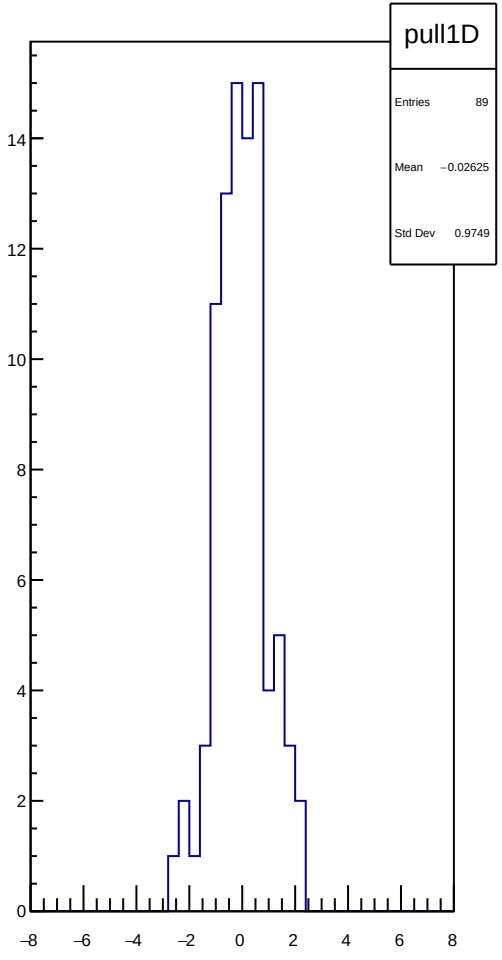

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 121.2 / 88
p0 −1.051 ± 0.2902
pull
Entries 89
Mean 278.9
Std Dev 0
pull1D
Entries 89
Mean −0.03168
Std Dev 1.167

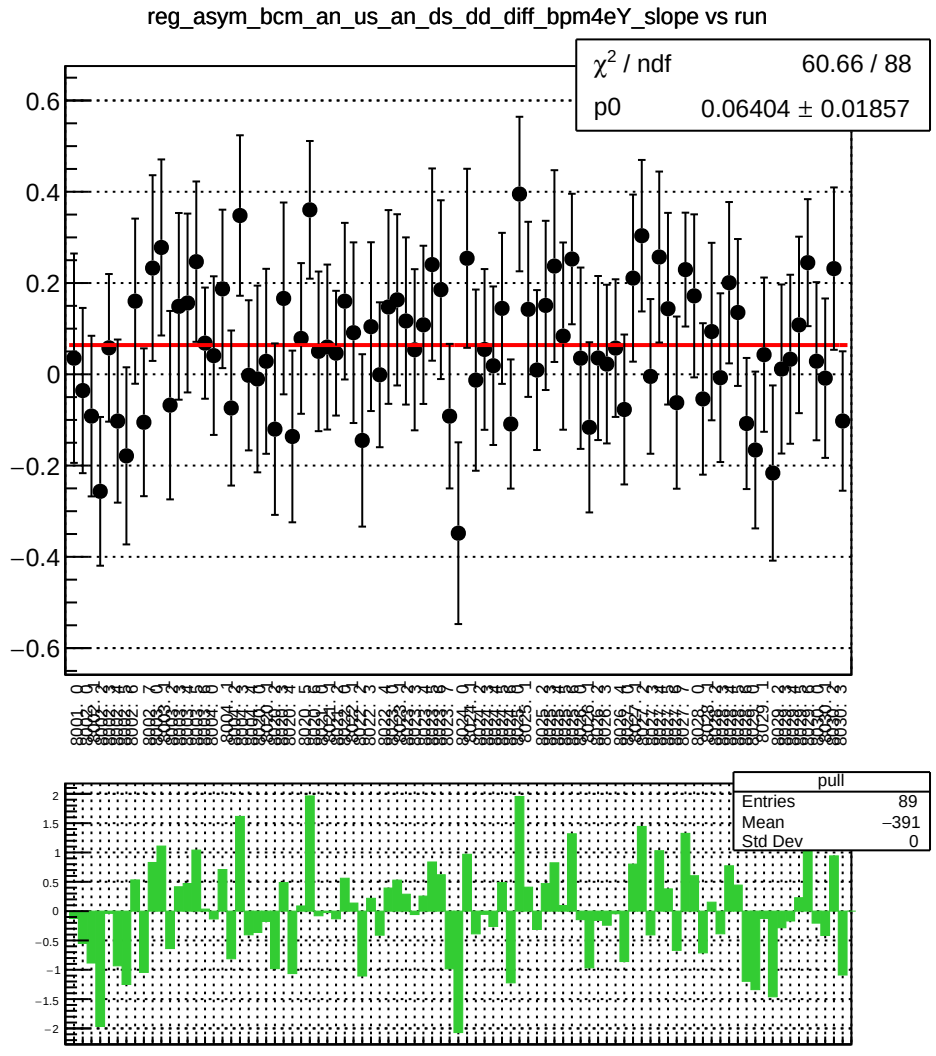

reg_asym_bcm_an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 152.5 / 88
p0 0.2627 ± 0.01292
pull
Entries 89
Mean 84.77
Std Dev 0
pull1D
Entries 89
Mean −0.2096
Std Dev 1.292

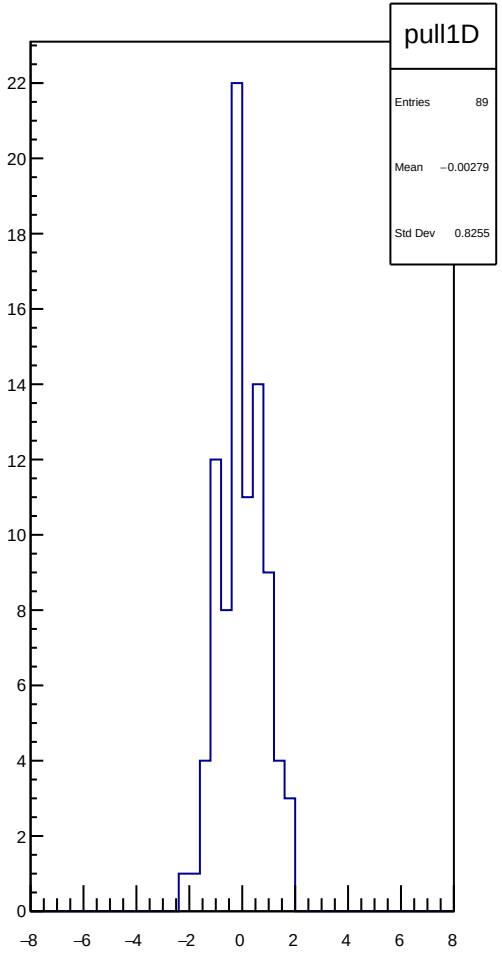

reg_asym_bcm_an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 88.74 / 88
p0 0.004087 ± 0.01106
pull
Entries 89
Mean −9.873
Std Dev 0
pull1D
Entries 89
Mean 0.03375
Std Dev 0.998

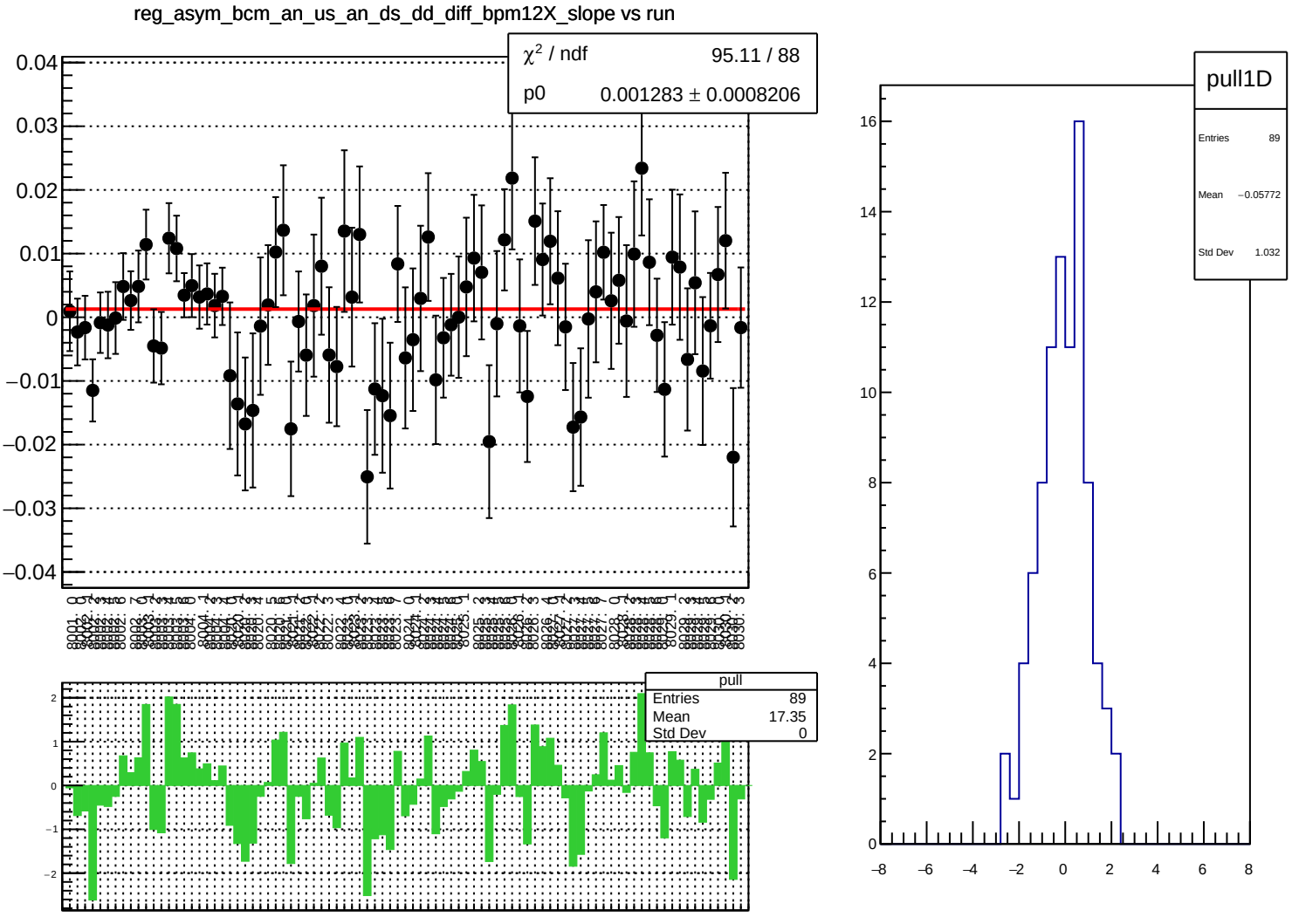

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 63.56 / 88
p0 −0.06948 ± 0.01725
pull
Entries 89
Mean −1879
Std Dev 0
pull1D
Entries 89
Mean 0.0007147
Std Dev 0.845

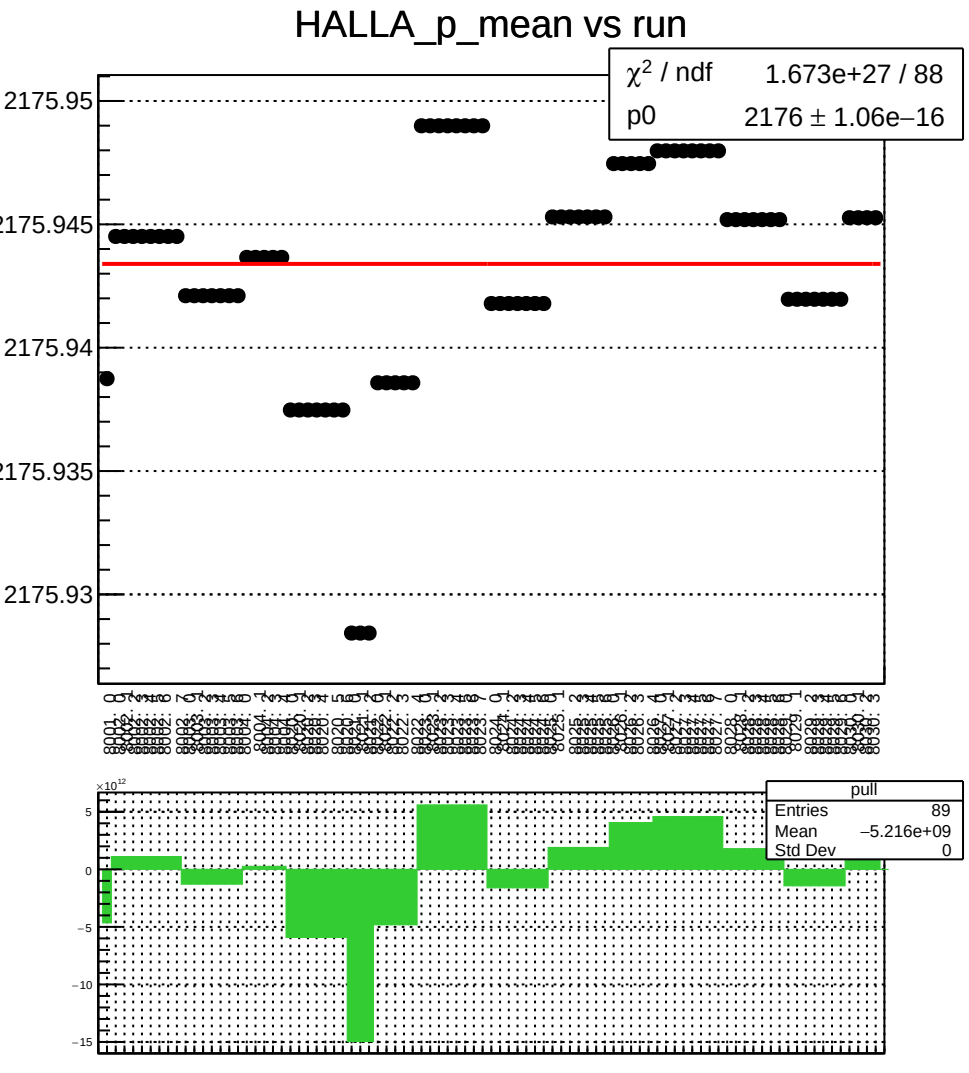

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 84.64 / 88
p0 −0.01985 ± 0.01153
pull
Entries 89
Mean −39.5
Std Dev 0

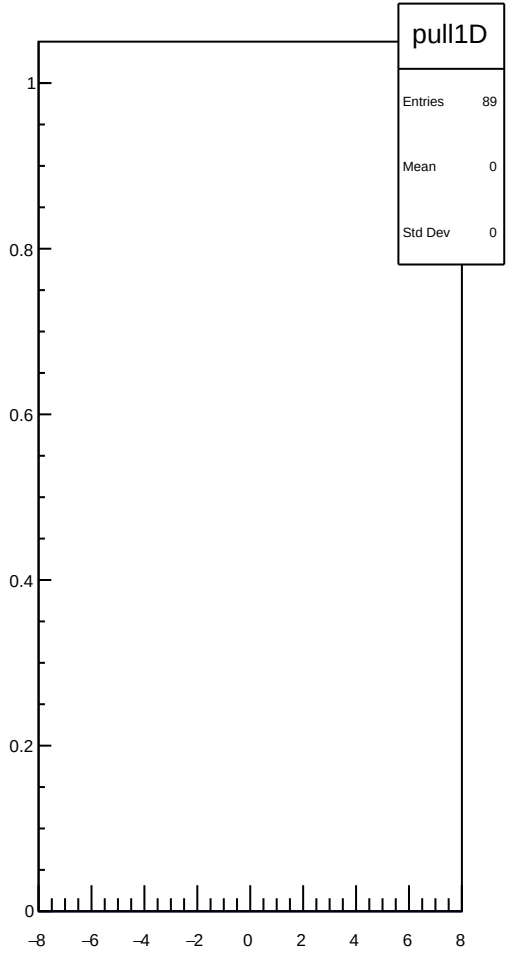

pull1D
Entries 89
Mean −0.02625
Std Dev 0.9749

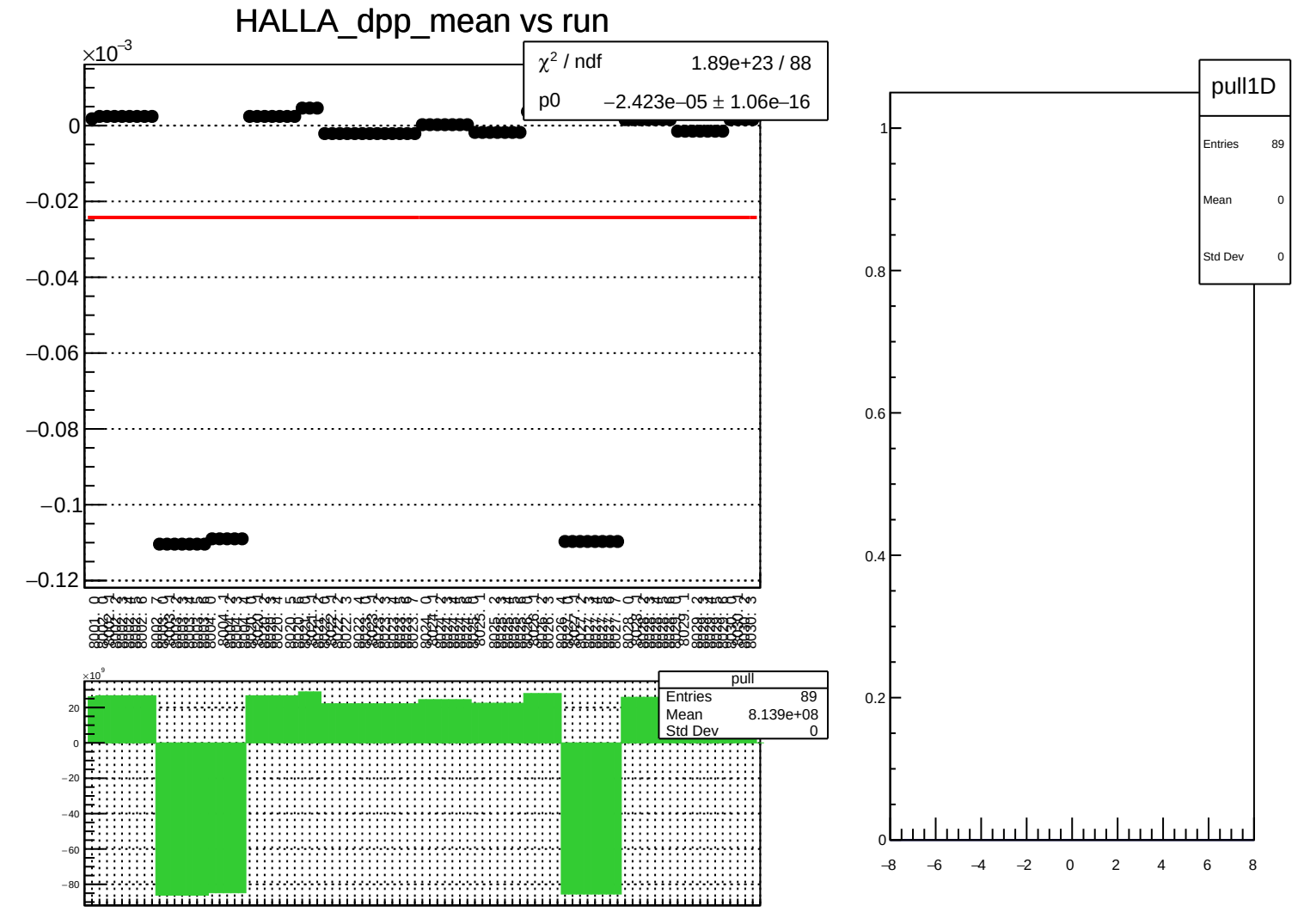

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 60.66 / 88
p0 0.06404 ± 0.01857
pull
Entries 89
Mean −391
Std Dev 0

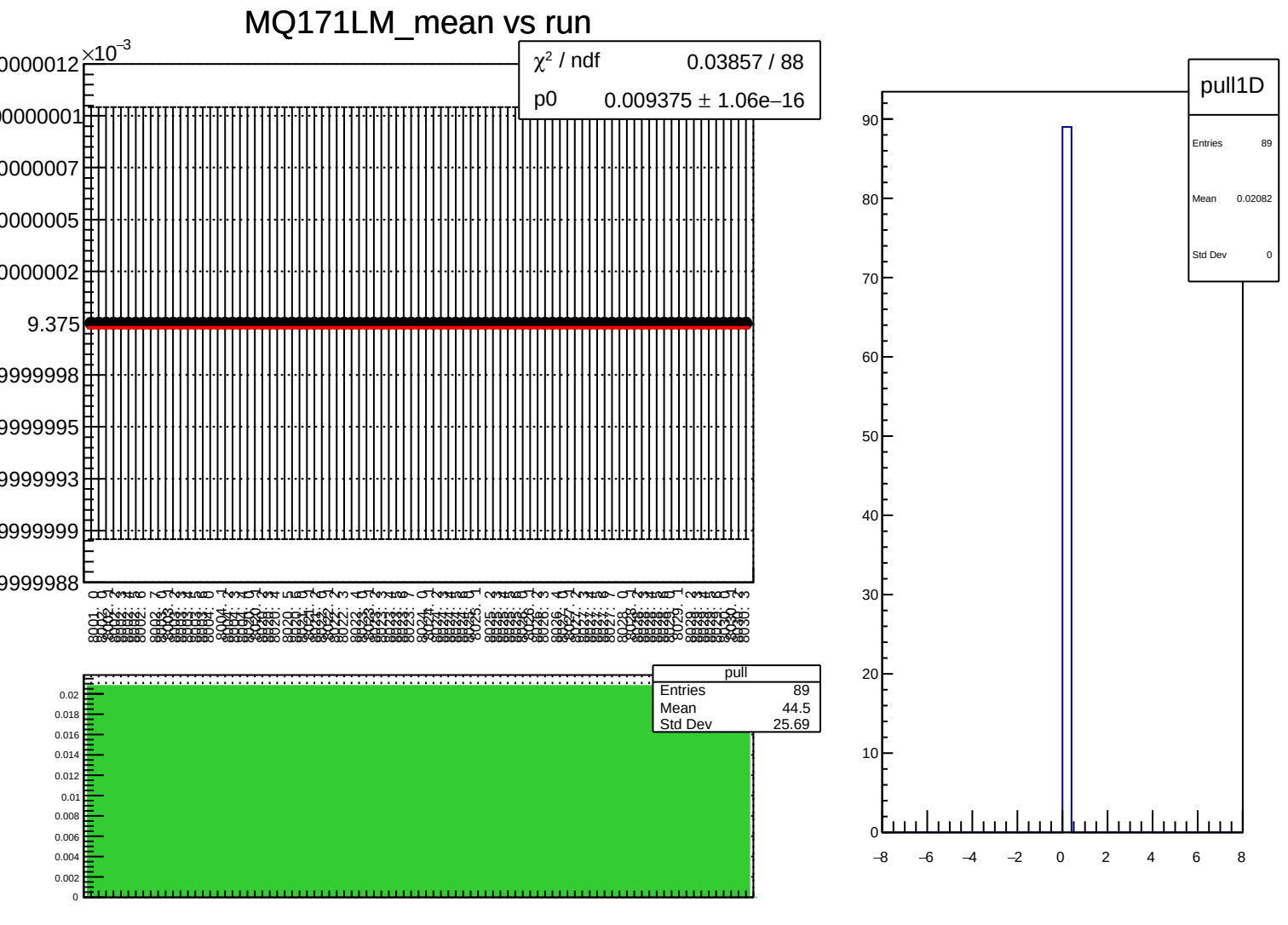

pull1D
Entries 89
Mean −0.00279
Std Dev 0.8255

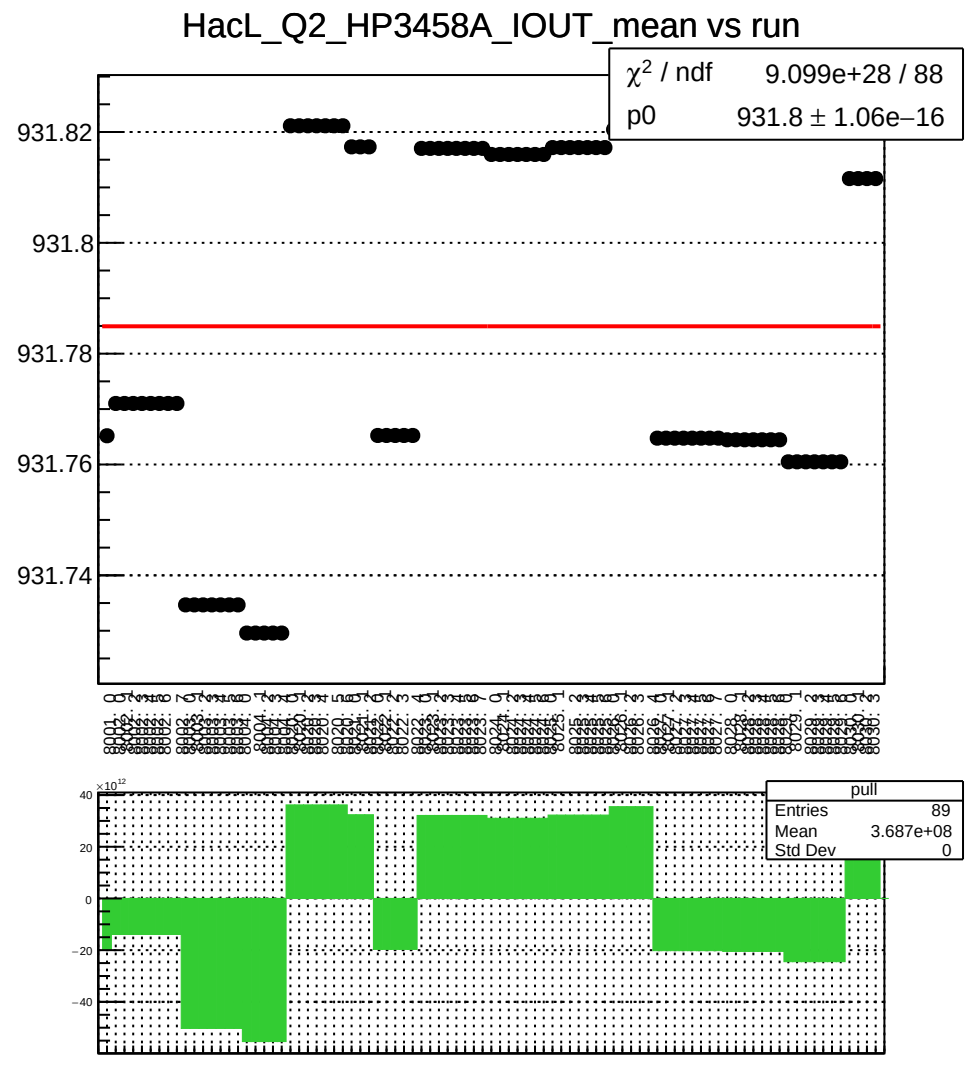

reg_asym_bcm_an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 95.11 / 88
p0 0.001283 ± 0.0008206
pull
Entries 89
Mean 17.35
Std Dev 0
pull1D
Entries 89
Mean −0.05772
Std Dev 1.032

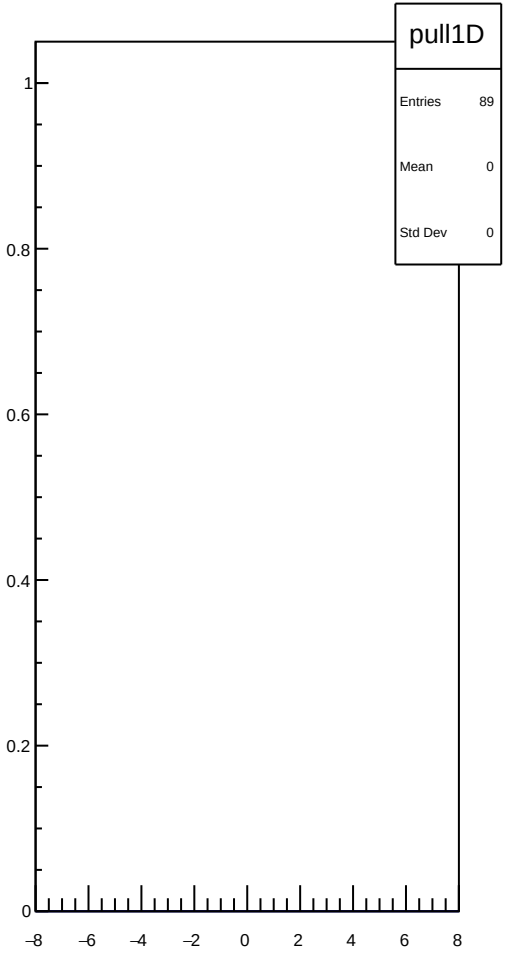

HALLA_p_mean vs run
χ² / ndf 1.673e+27 / 88
p0 2176 ± 1.06e−16
2175.95
2175.945
2175.94
2175.935
2175.93
pull
Entries 89
Mean −5.216e+09
Std Dev 0
×10¹²
5
0
−5
−10
−15

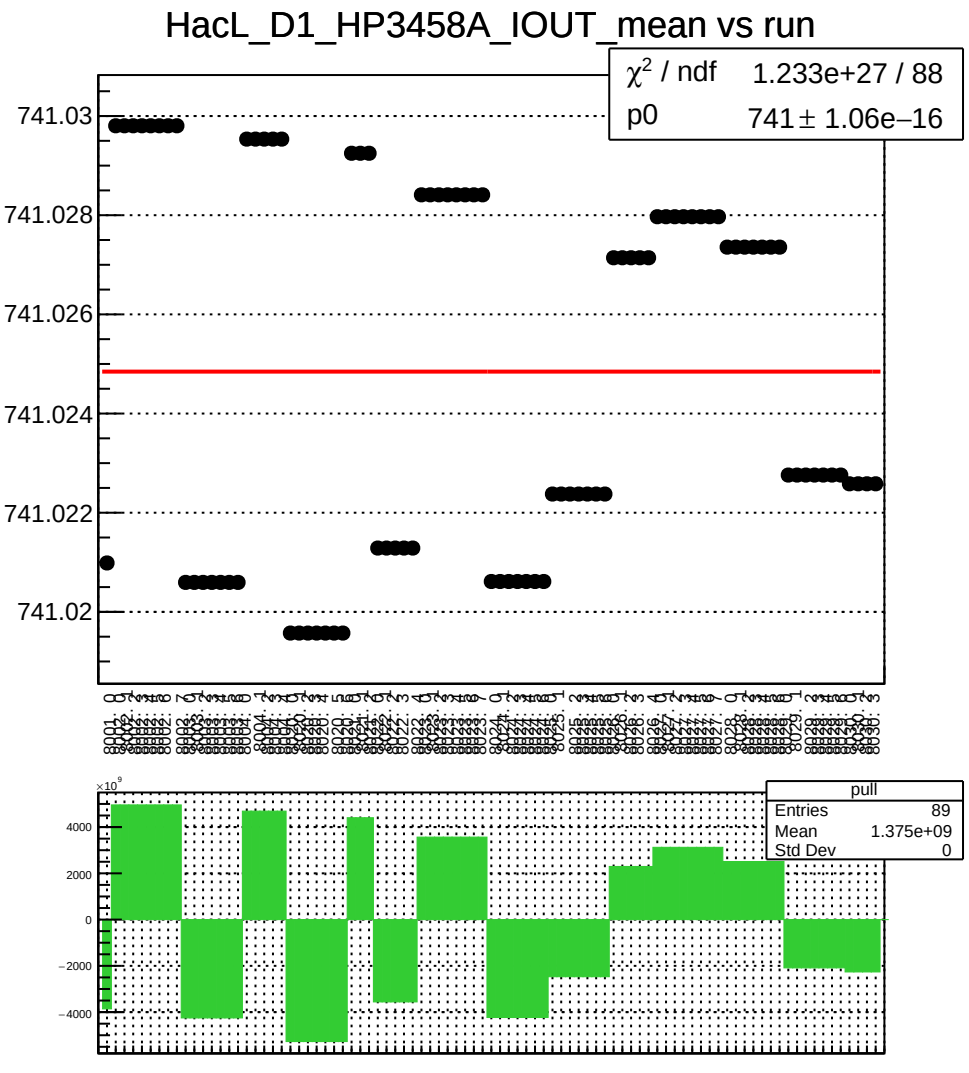

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

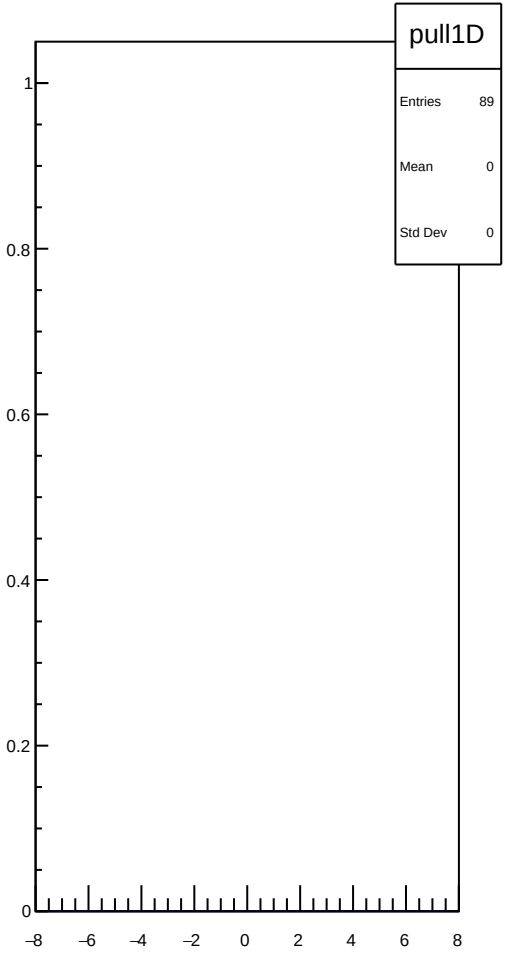

HALLA_dpp_mean vs run
×10⁻³
χ² / ndf 1.89e+23 / 88
p0 −2.423e−05 ± 1.06e−16
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
×10⁹
20
0
−20
−40
−60
−80
pull
Entries 89
Mean 8.139e+08
Std Dev 0
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

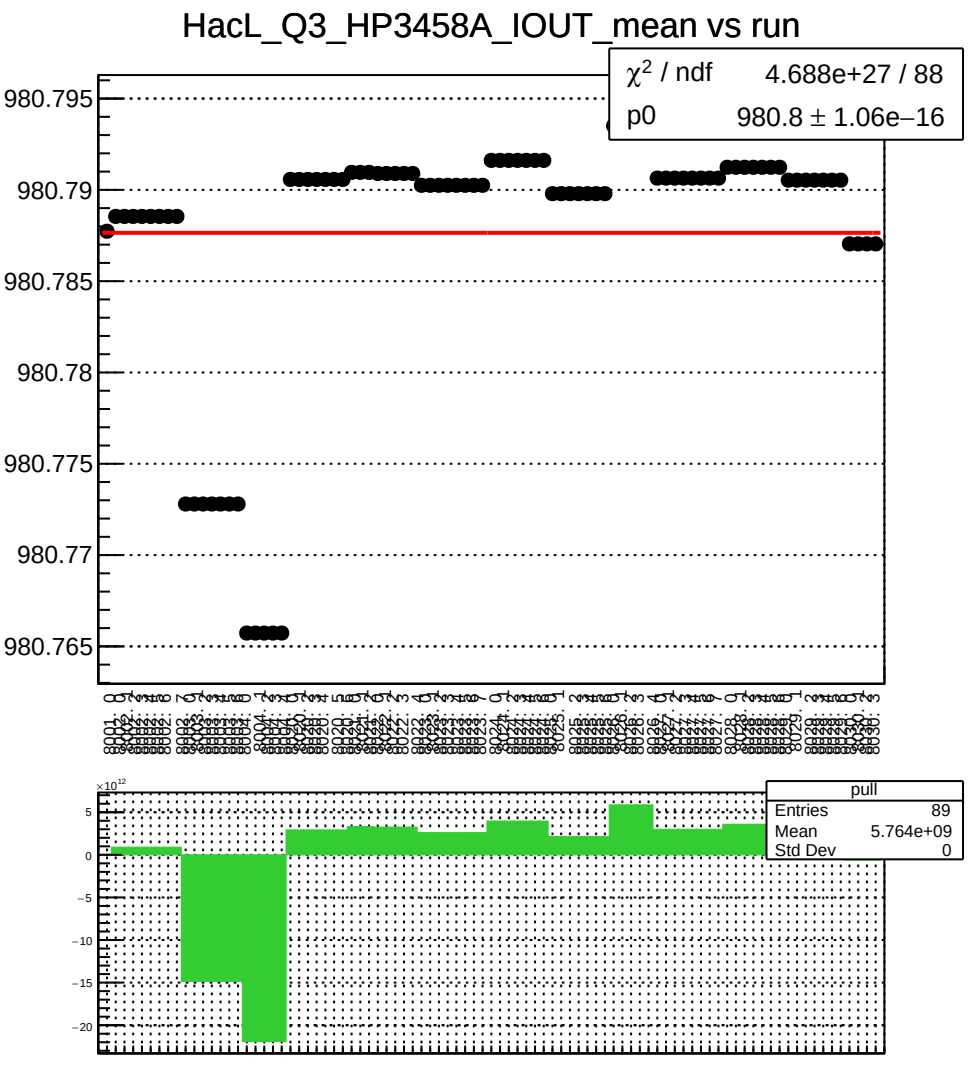

MQ171LM_mean vs run
χ² / ndf 0.03857 / 88
p0 0.009375 ± 1.06e−16
×10⁻³
pull
Entries 89
Mean 44.5
Std Dev 25.69
pull1D
Entries 89
Mean 0.02082
Std Dev 0

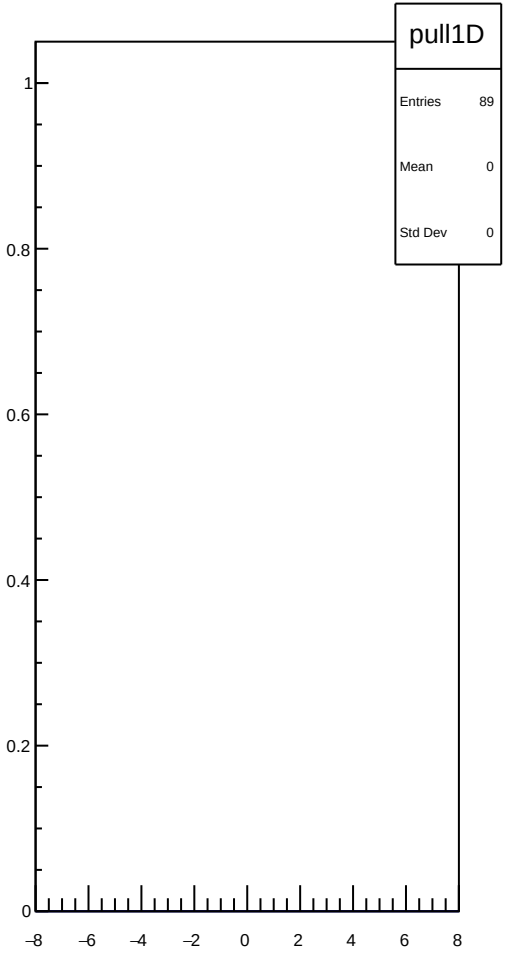

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 9.099e+28 / 88
p0 931.8 ± 1.06e−16
931.82
931.8
931.78
931.76
931.74
pull
Entries 89
Mean 3.687e+08
Std Dev 0
×10¹²
40
20
0
−20
−40

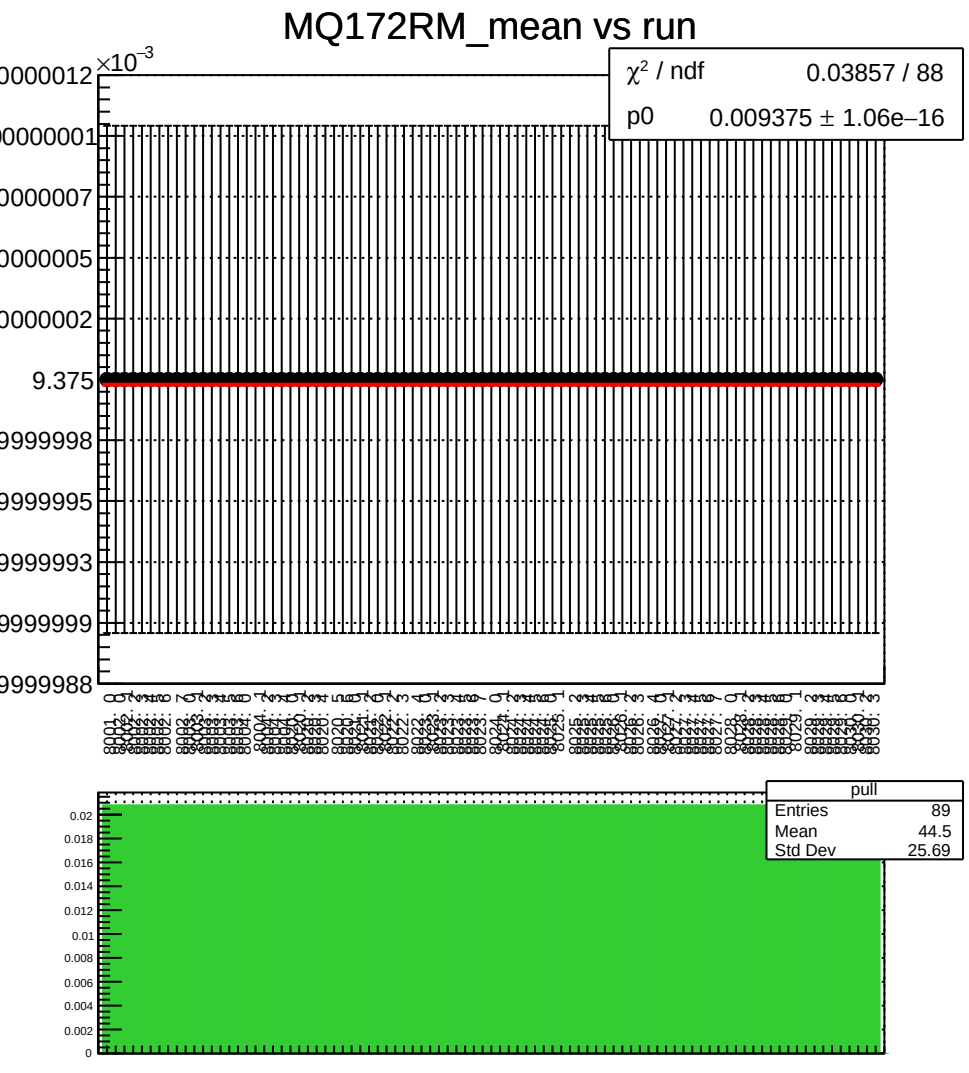

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

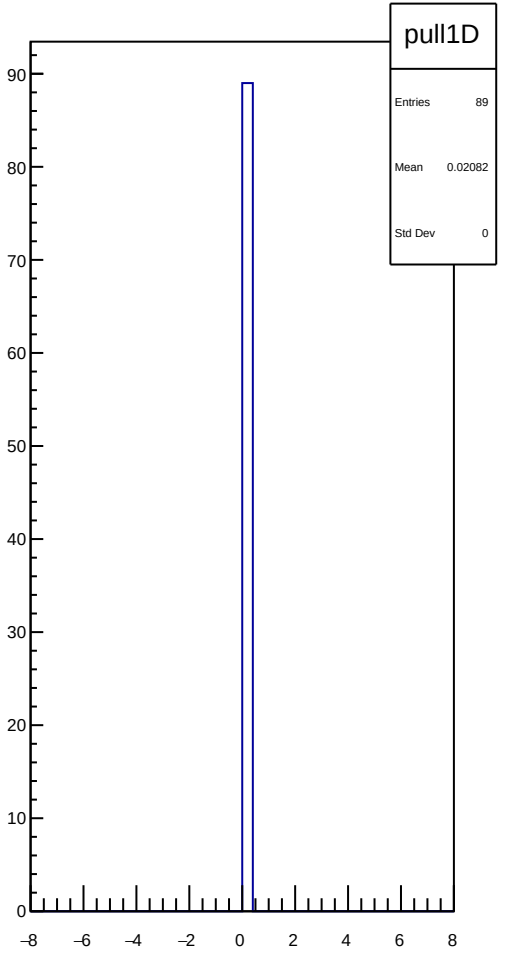

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 1.233e+27 / 88
p0 741 ± 1.06e−16
741.03
741.028
741.026
741.024
741.022
741.02
×10⁹
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 1.375e+09
Std Dev 0

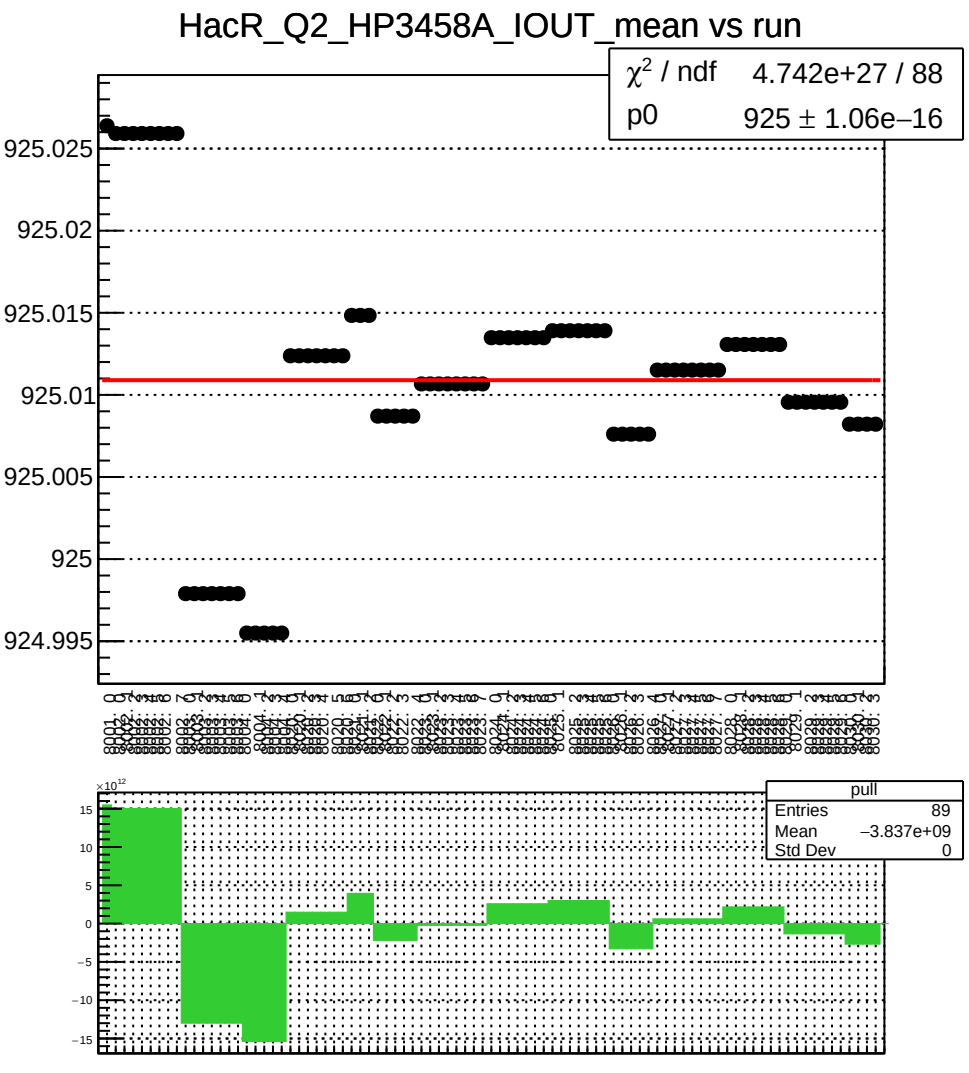

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

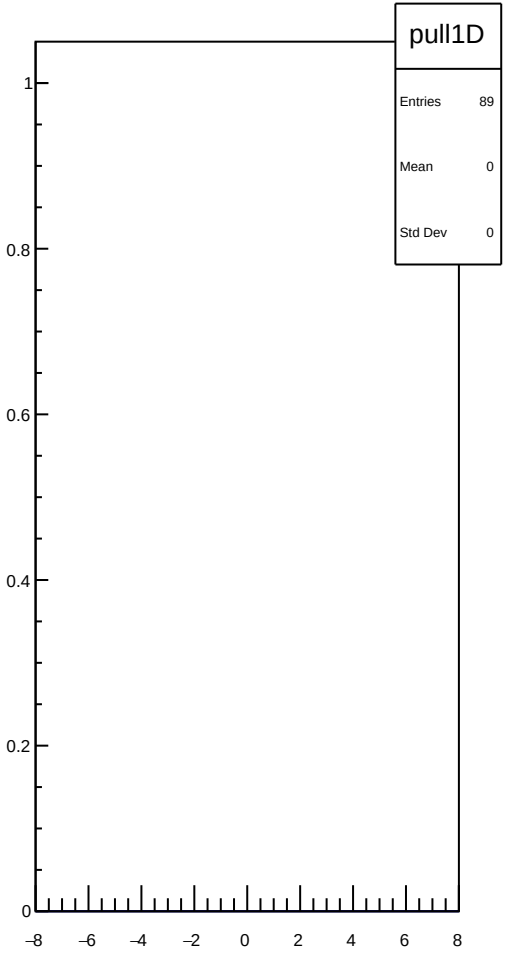

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 4.688e+27 / 88
p0 980.8 ± 1.06e−16
980.795
980.79
980.785
980.78
980.775
980.77
980.765
pull
Entries 89
Mean 5.764e+09
Std Dev 0
×10¹²
5
0
−5
−10
−15
−20

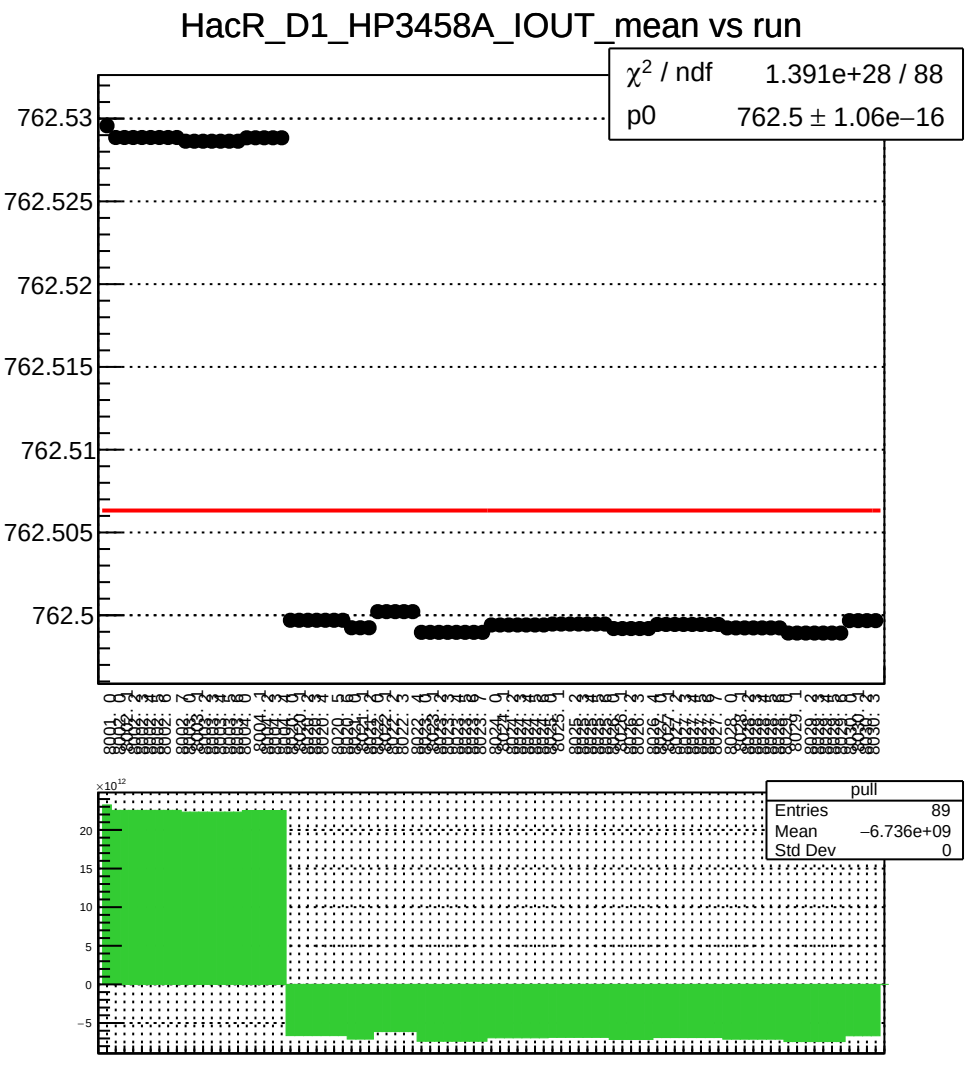

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

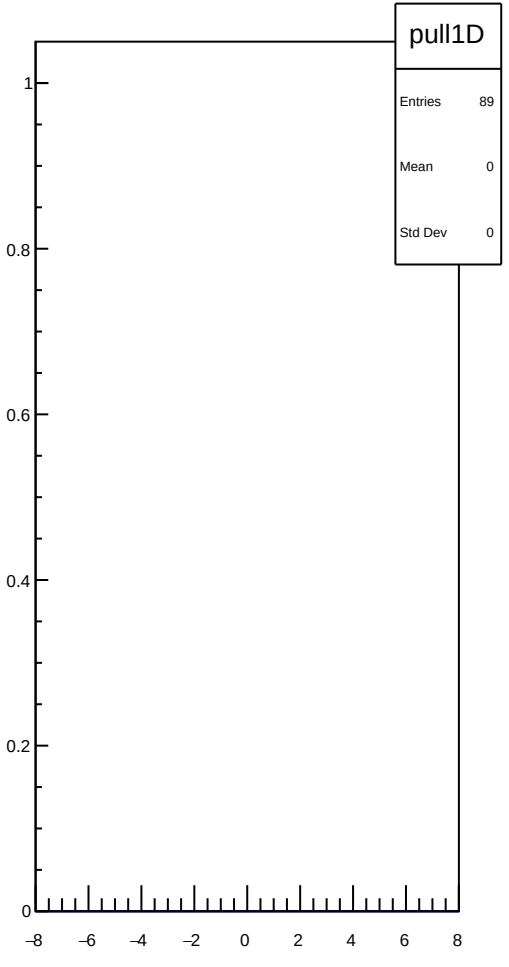

MQ172RM_mean vs run
χ² / ndf 0.03857 / 88
p0 0.009375 ± 1.06e−16
×10⁻³
pull
Entries 89
Mean 44.5
Std Dev 25.69

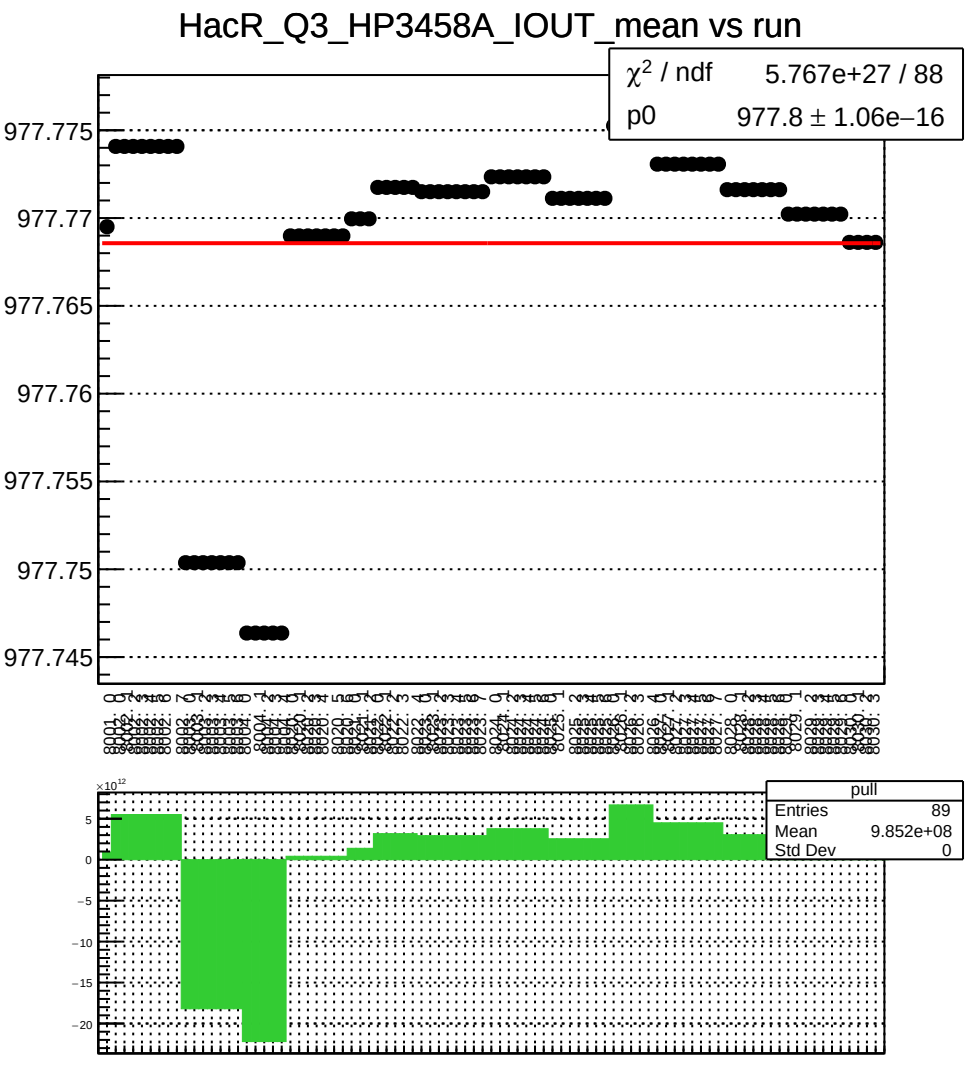

pull1D
Entries 89
Mean 0.02082
Std Dev 0

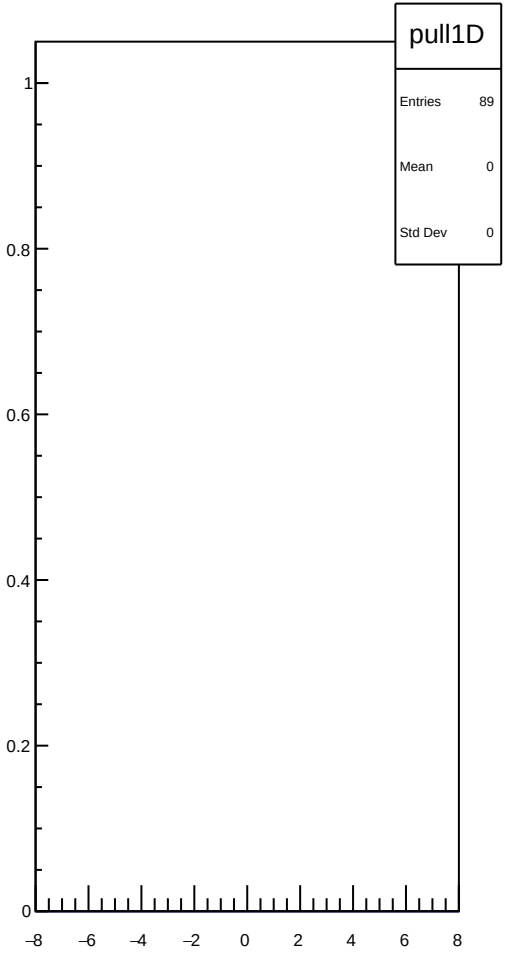

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 4.742e+27 / 88
p0 925 ± 1.06e−16
925.025
925.02
925.015
925.01
925.005
925
924.995
pull
Entries 89
Mean −3.837e+09
Std Dev 0
×10¹²
15
10
5
0
−5
−10
−15

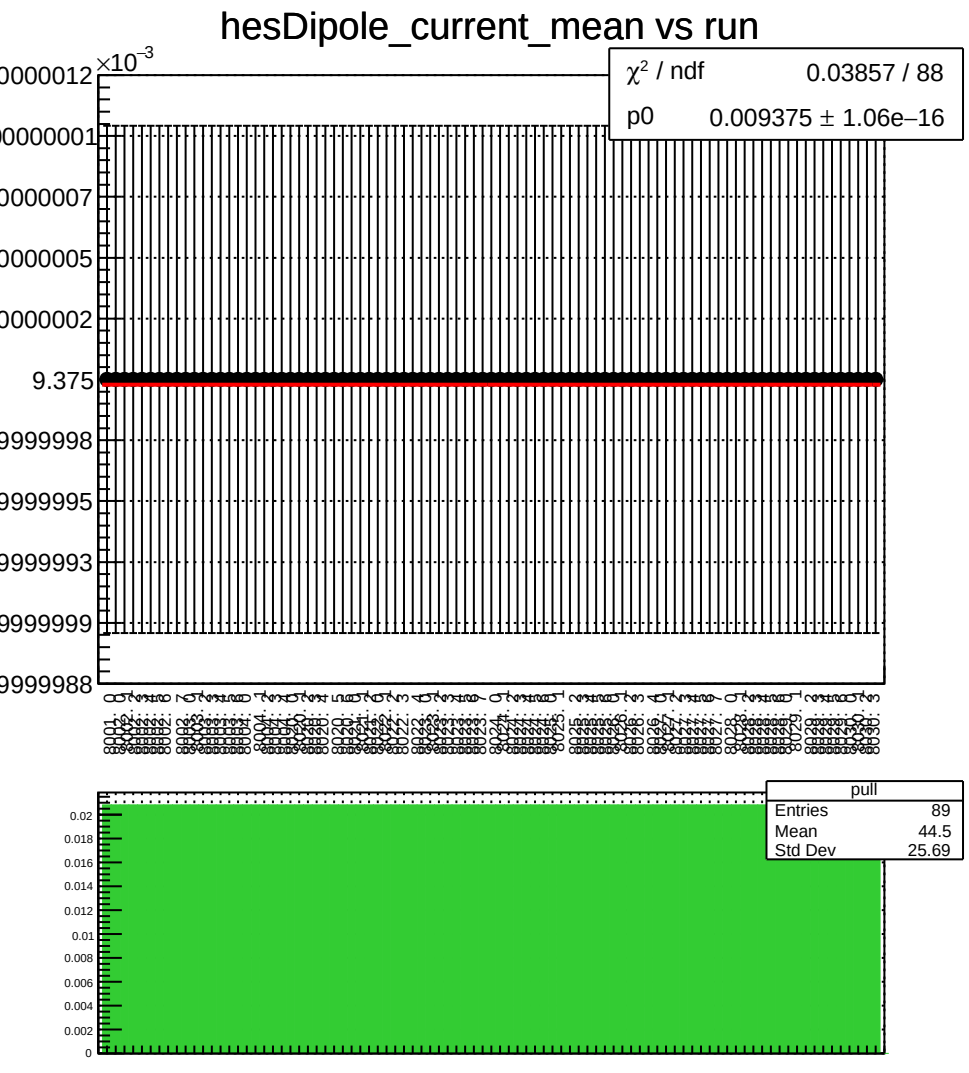

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

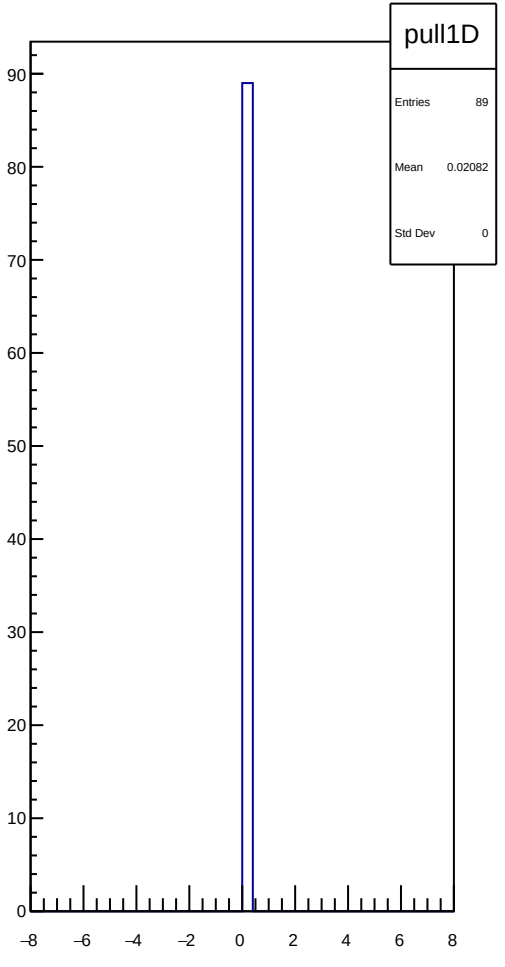

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 1.391e+28 / 88
p0 762.5 ± 1.06e−16
762.53
762.525
762.52
762.515
762.51
762.505
762.5
pull
Entries 89
Mean −6.736e+09
Std Dev 0
×10¹²
20
15
10
5
0
−5

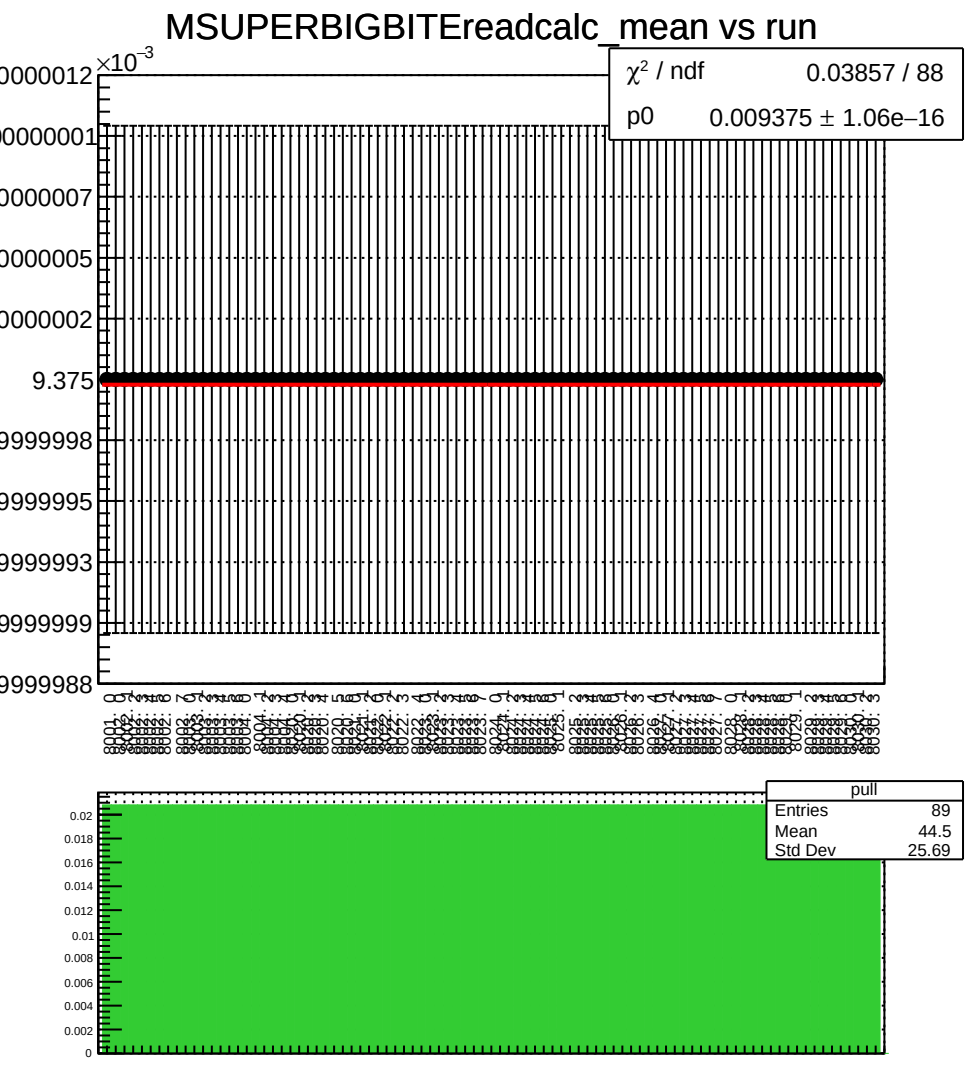

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

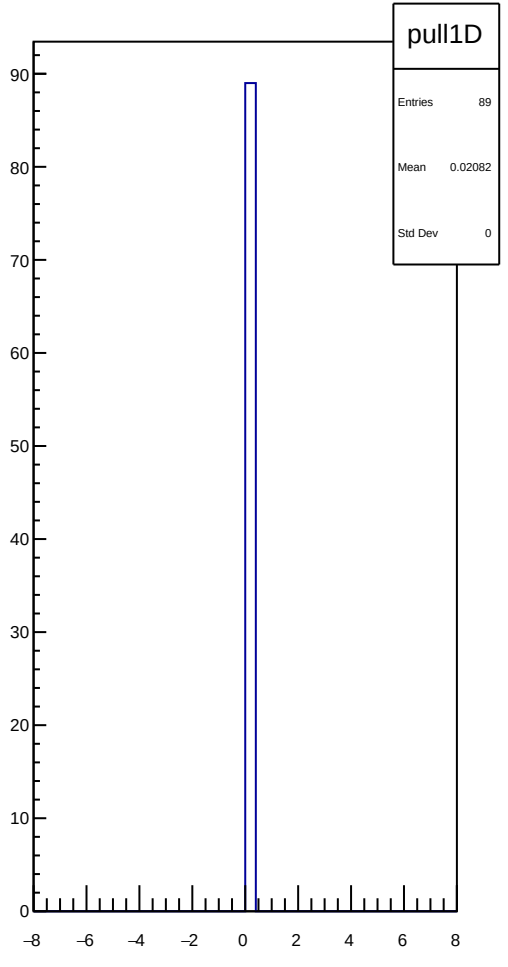

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 5.767e+27 / 88
p0 977.8 ± 1.06e−16
977.775
977.77
977.765
977.76
977.755
977.75
977.745
pull
Entries 89
Mean 9.852e+08
Std Dev 0
×10¹²
5
0
−5
−10
−15
−20

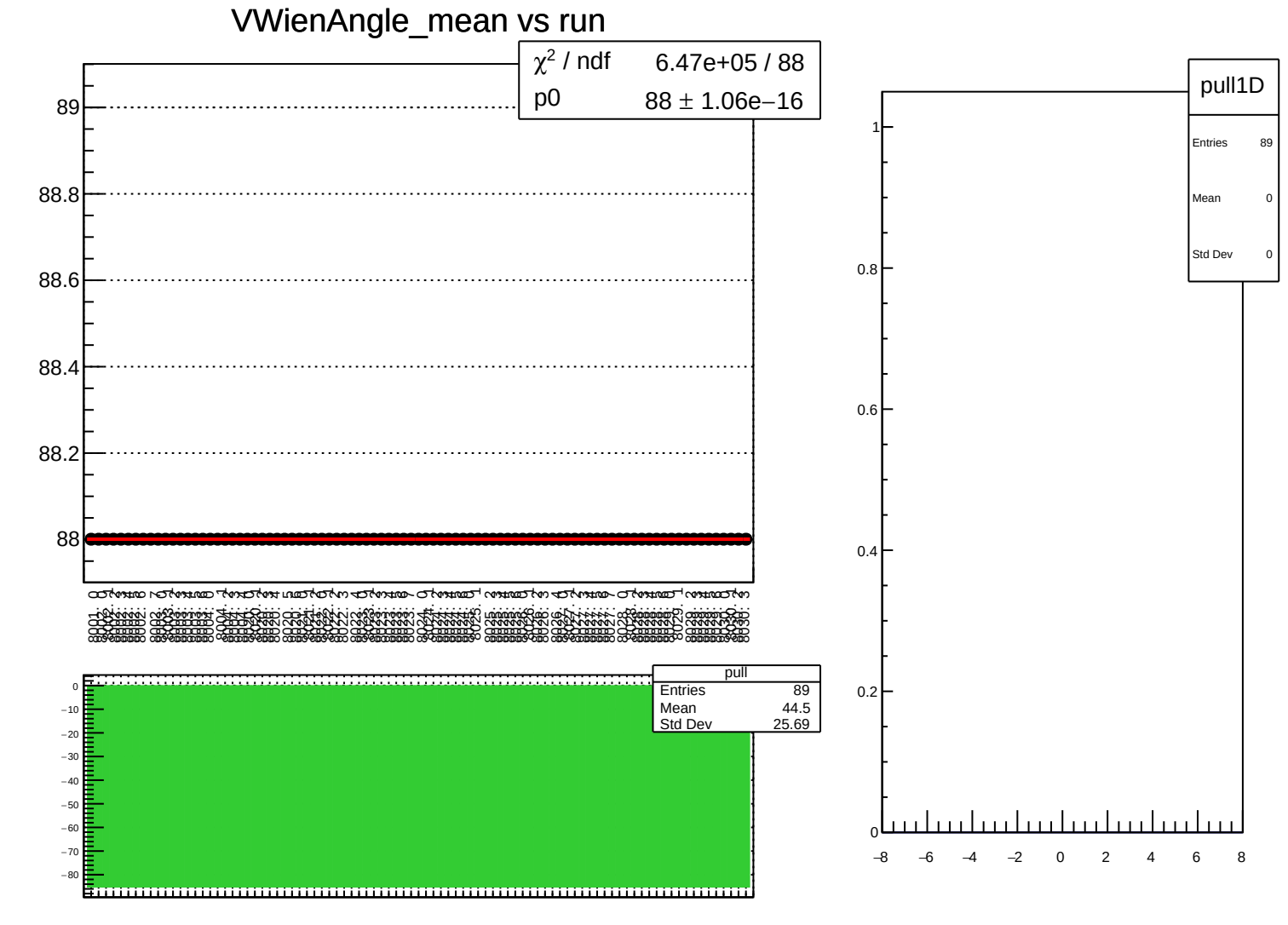

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

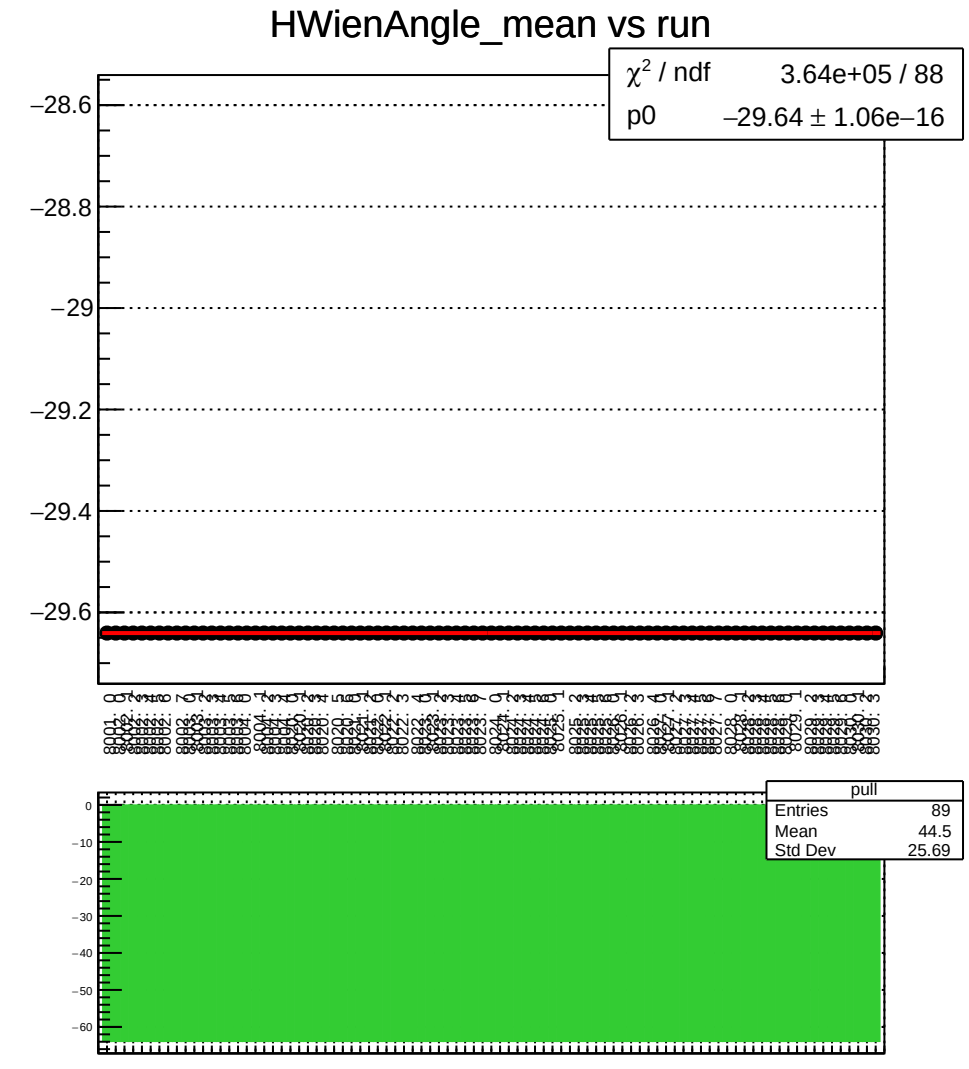

hesDipole_current_mean vs run
χ² / ndf 0.03857 / 88
p0 0.009375 ± 1.06e−16
×10⁻³
pull
Entries 89
Mean 44.5
Std Dev 25.69

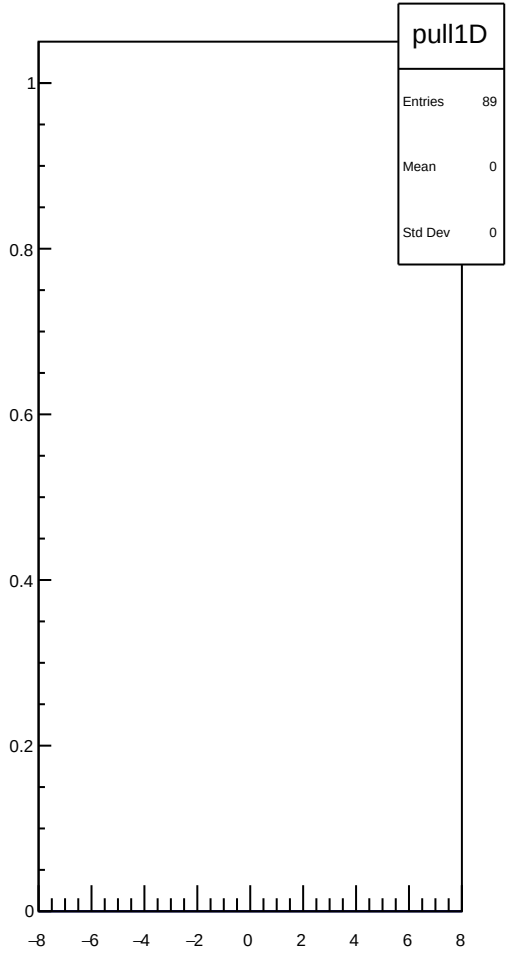

pull1D
Entries 89
Mean 0.02082
Std Dev 0

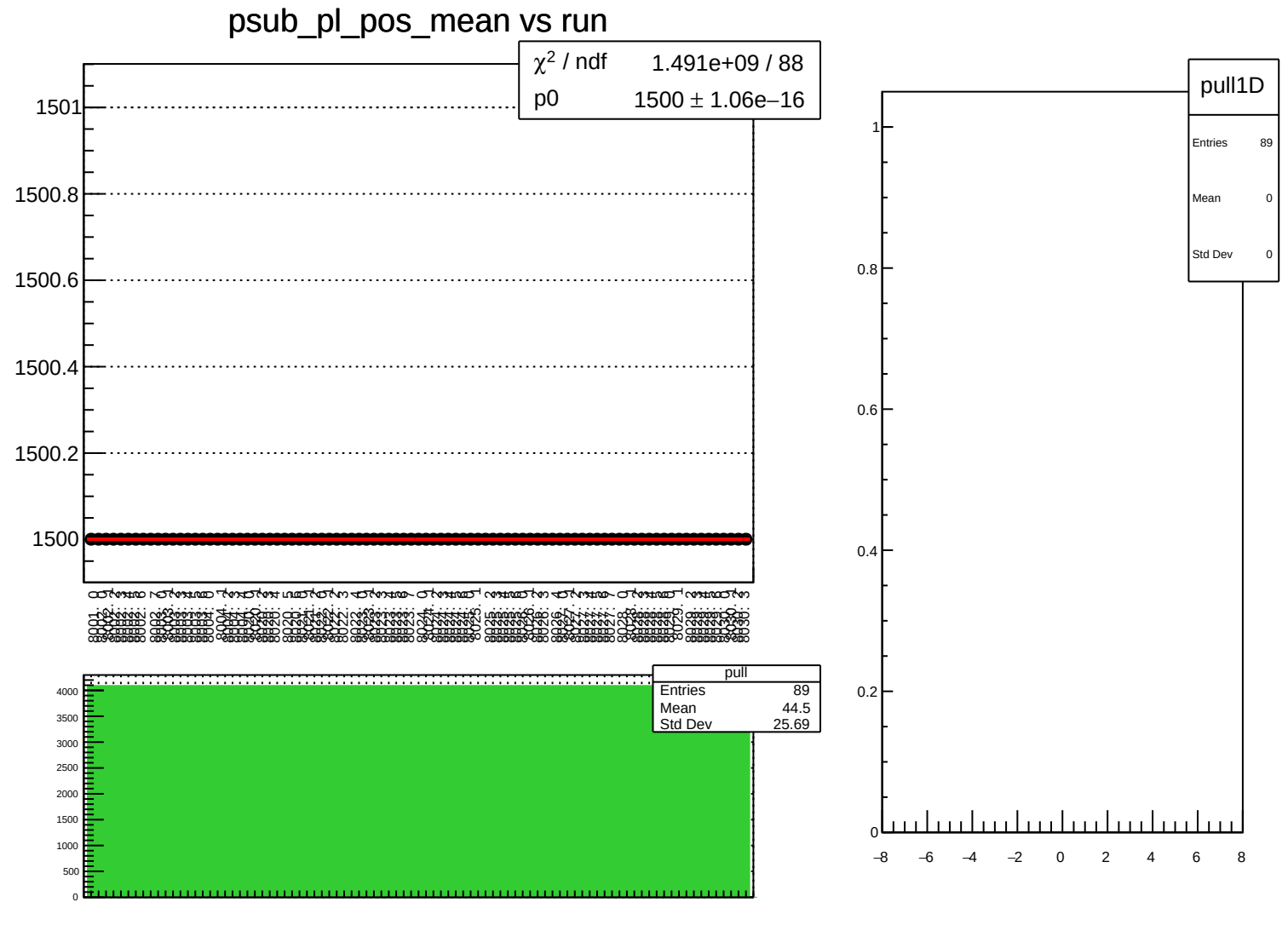

MSUPERBIGBITEreadcalc_mean vs run
×10⁻³
χ² / ndf 0.03857 / 88
p0 0.009375 ± 1.06e−16
pull
Entries 89
Mean 44.5
Std Dev 25.69

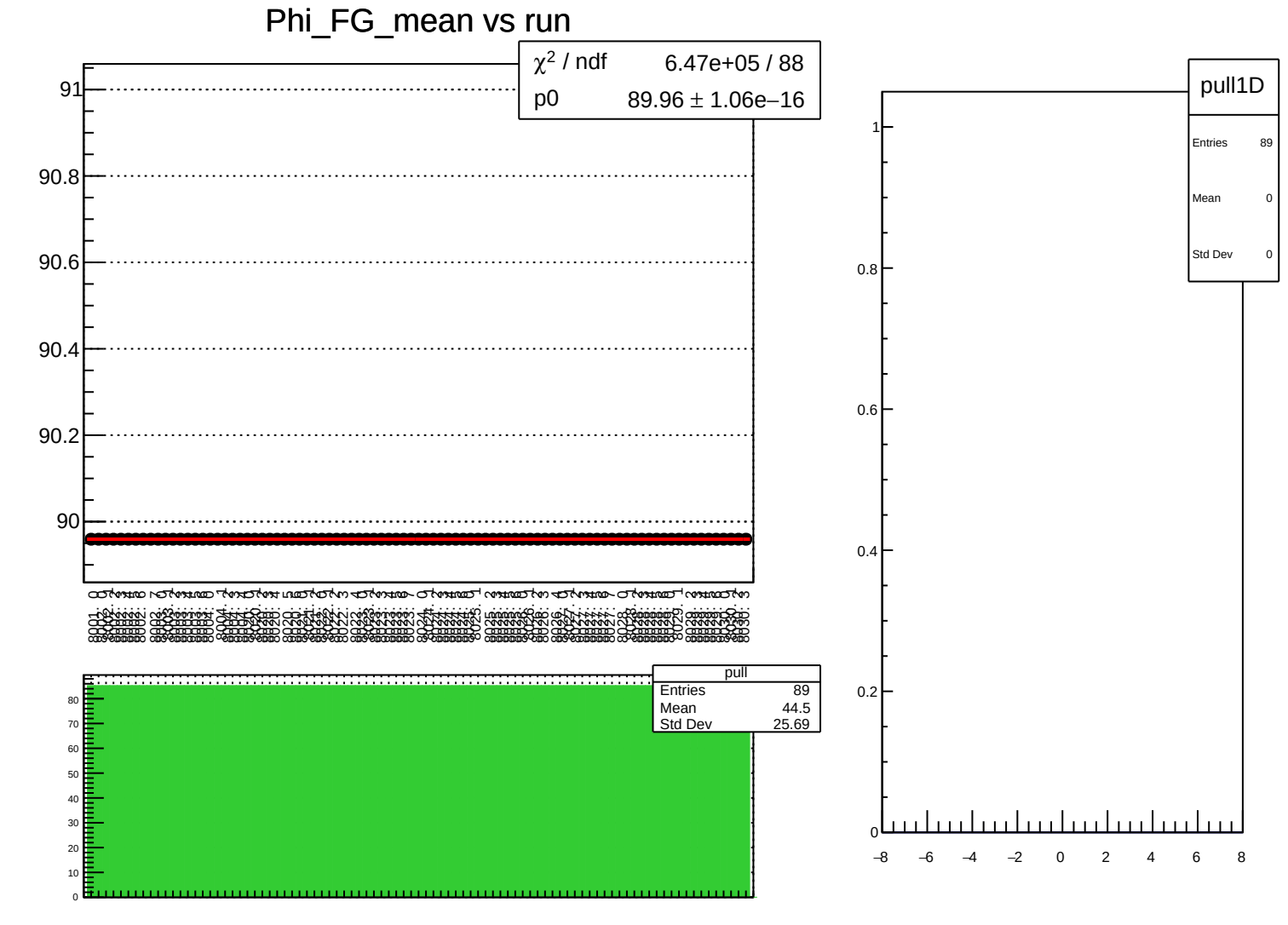

pull1D
Entries 89
Mean 0.02082
Std Dev 0

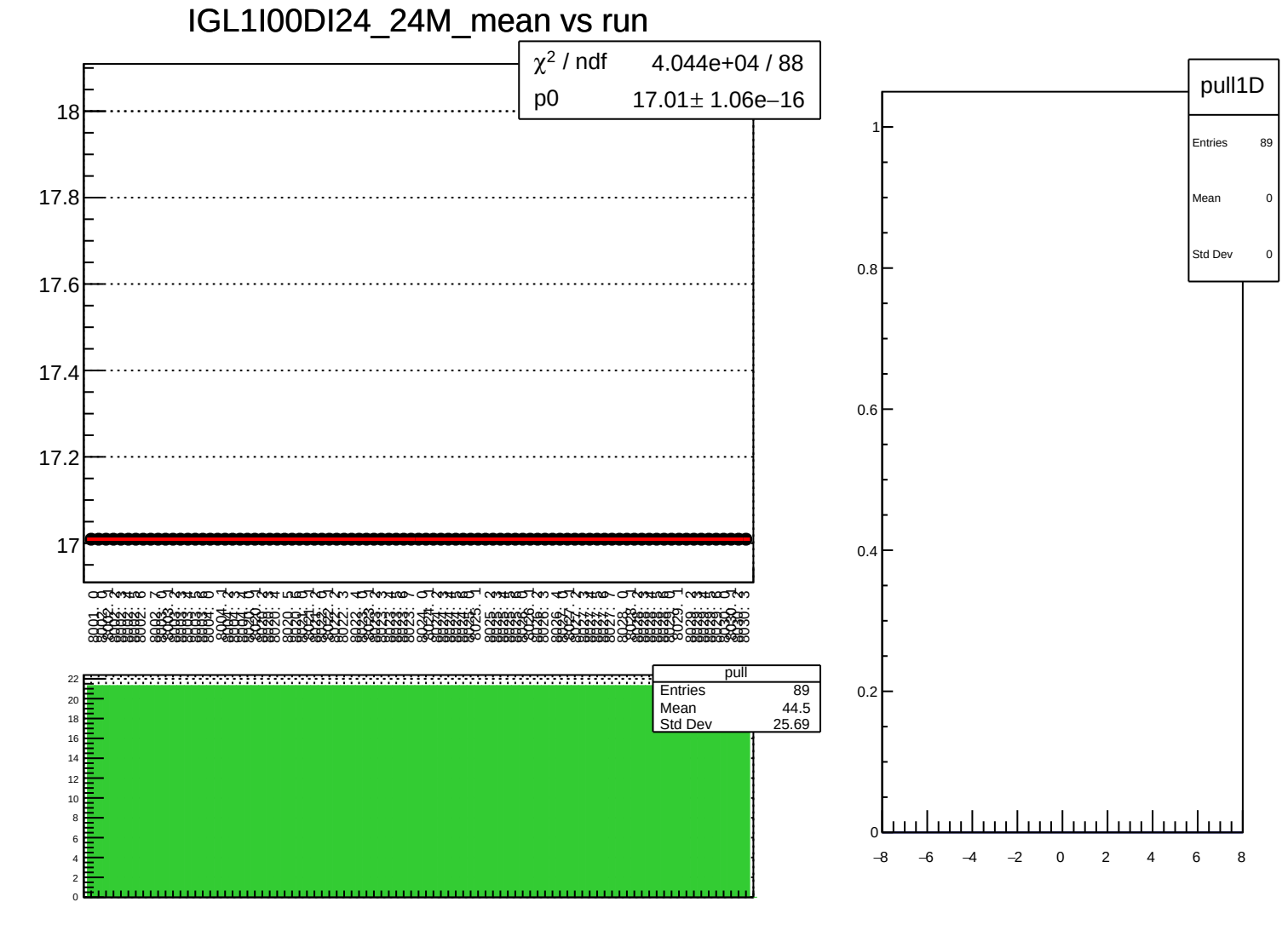

VWienAngle_mean vs run
χ² / ndf 6.47e+05 / 88
p0 88 ± 1.06e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 89
Mean 44.5
Std Dev 25.69
0
−10
−20
−30
−40
−50
−60
−70
−80
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

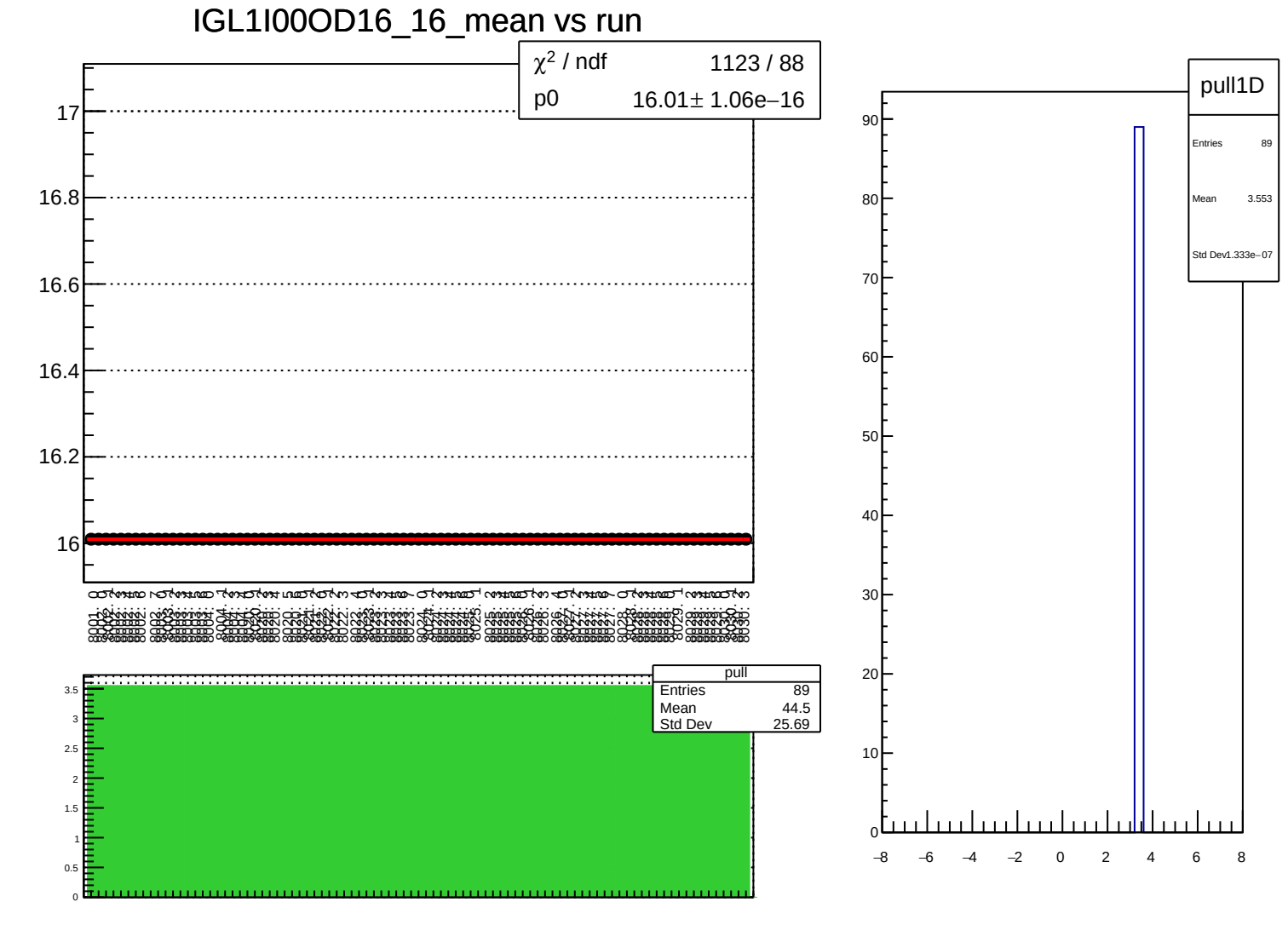

HWienAngle_mean vs run
χ² / ndf 3.64e+05 / 88
p0 −29.64 ± 1.06e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 89
Mean 44.5
Std Dev 25.69
0
−10
−20
−30
−40
−50
−60

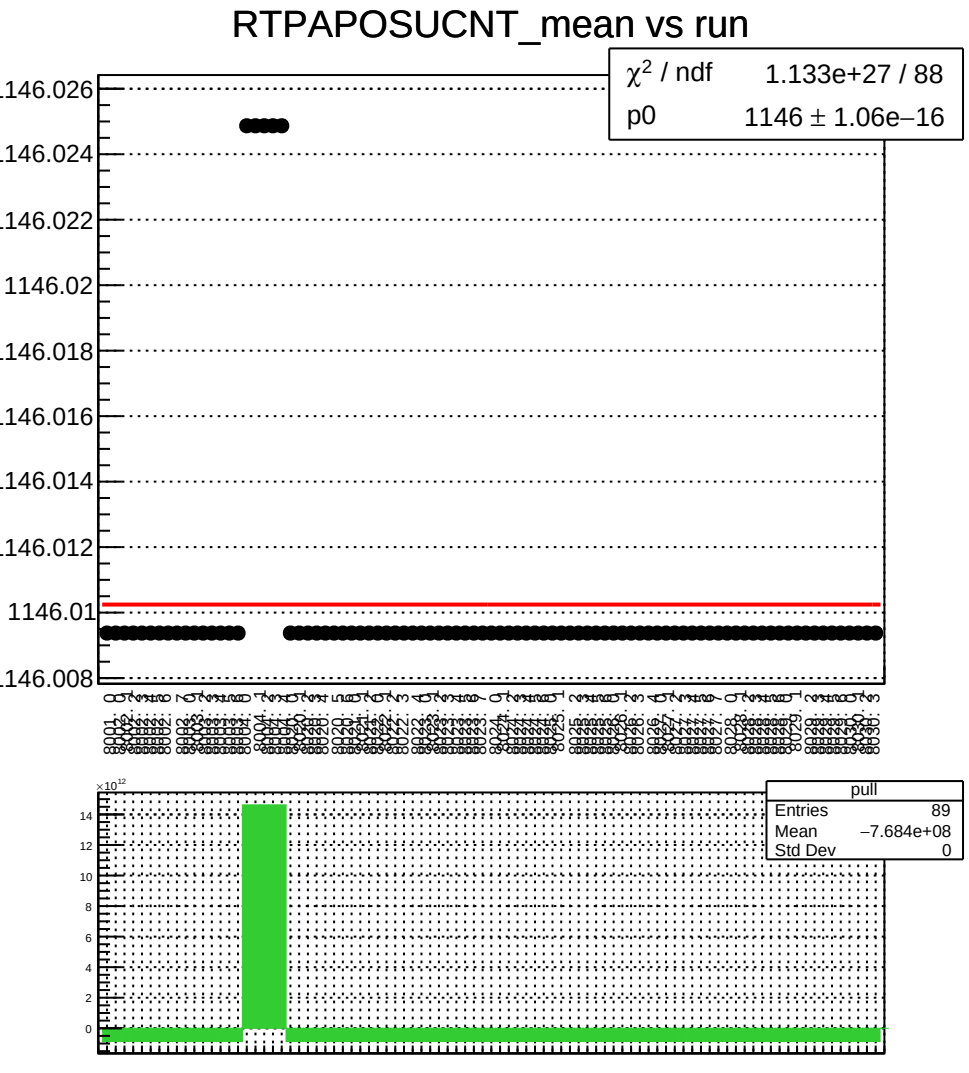

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

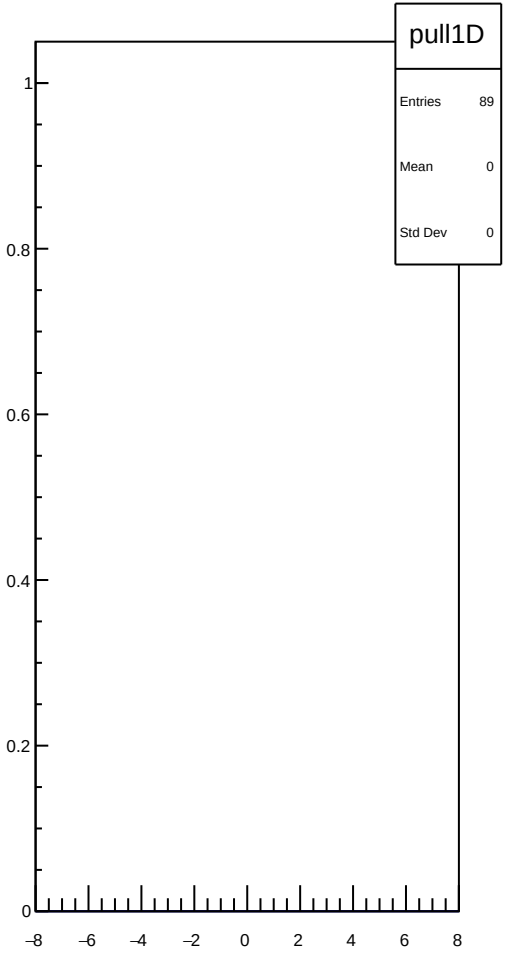

psub_pl_pos_mean vs run
χ² / ndf 1.491e+09 / 88
p0 1500 ± 1.06e−16
1501
1500.8
1500.6
1500.4
1500.2
1500
pull
Entries 89
Mean 44.5
Std Dev 25.69
4000
3500
3000
2500
2000
1500
1000
500
0
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

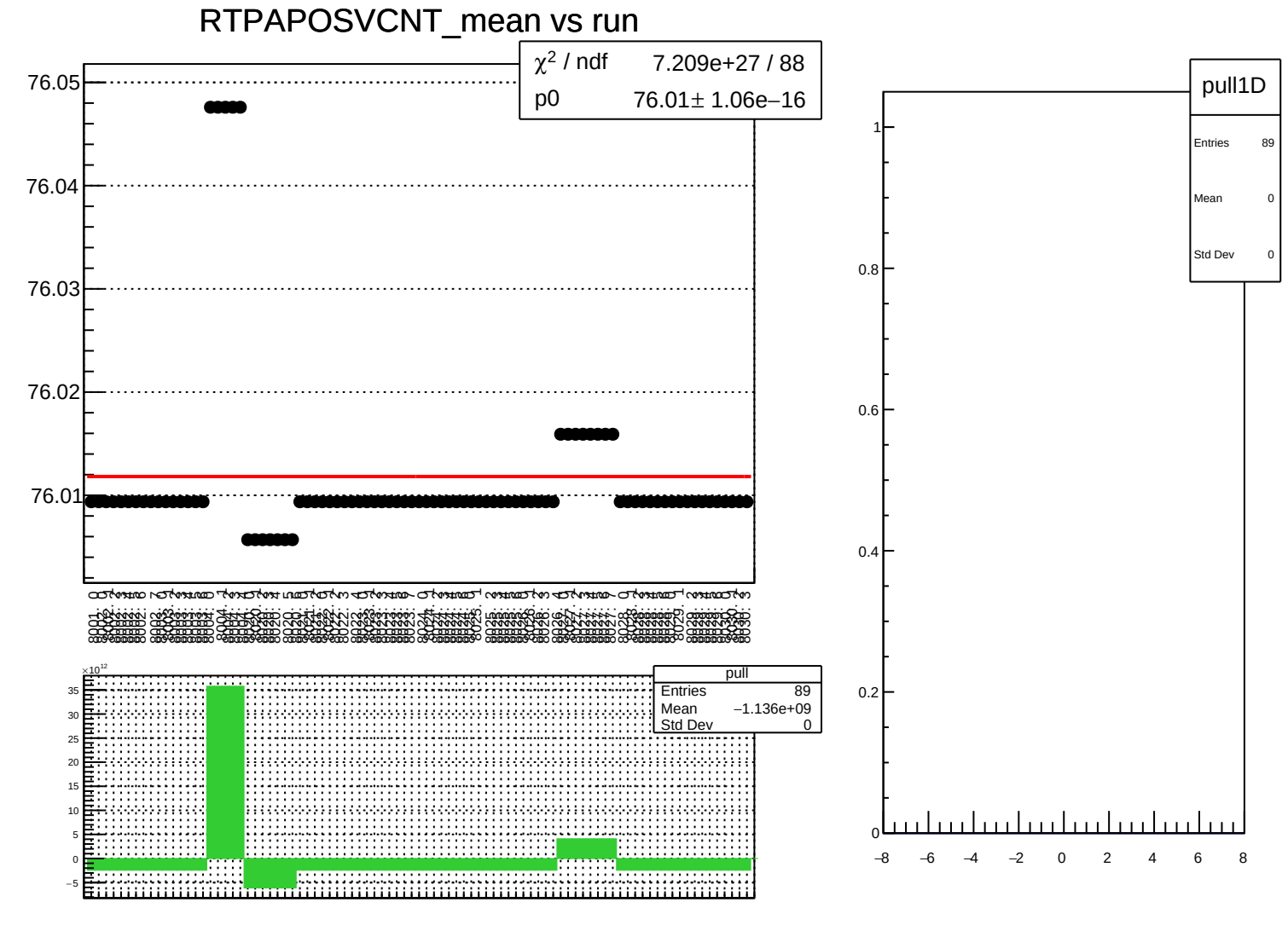

Phi_FG_mean vs run
χ² / ndf 6.47e+05 / 88
p0 89.96 ± 1.06e−16
91
90.8
90.6
90.4
90.2
90
pull
Entries 89
Mean 44.5
Std Dev 25.69
80
70
60
50
40
30
20
10
0
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

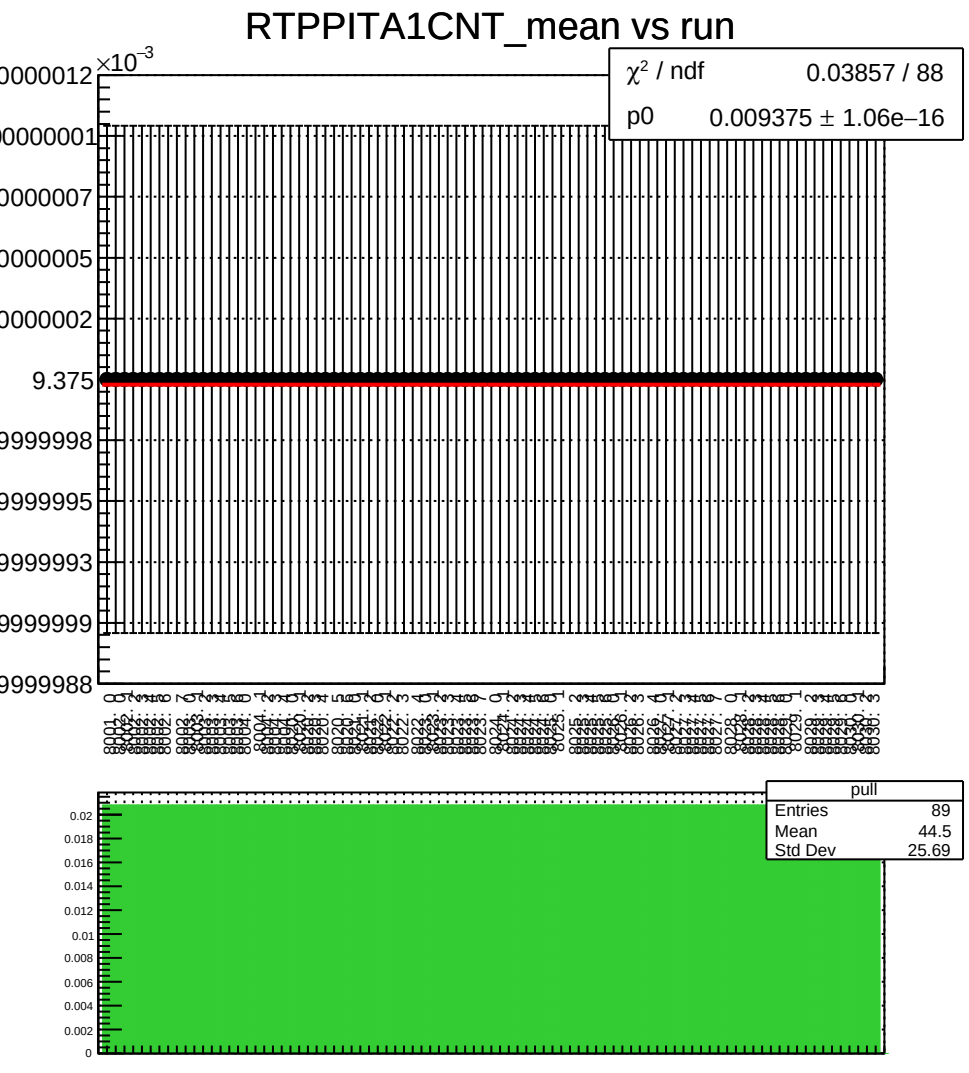

IGL1I00DI24_24M_mean vs run
χ² / ndf 4.044e+04 / 88
p0 17.01± 1.06e−16
18
17.8
17.6
17.4
17.2
17
pull
Entries 89
Mean 44.5
Std Dev 25.69
22
20
18
16
14
12
10
8
6
4
2
0
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

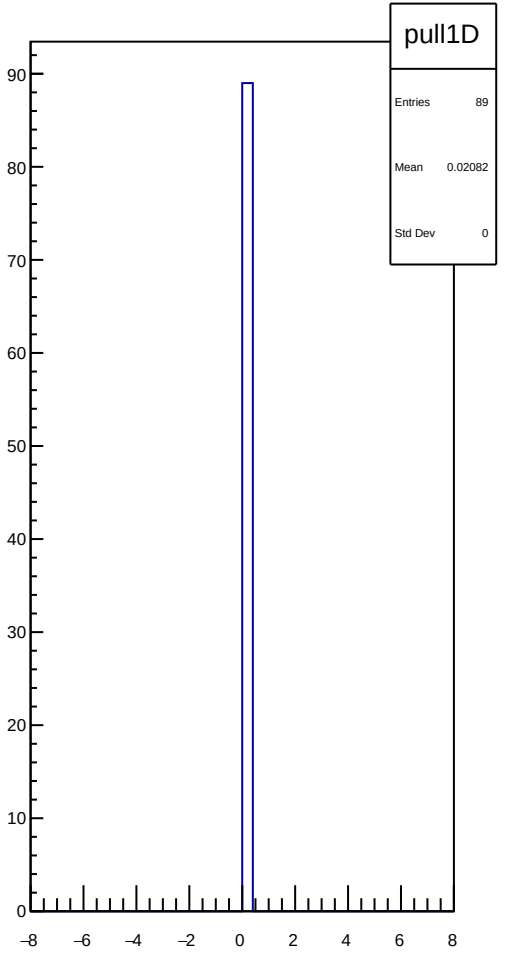

IGL1I00OD16_16_mean vs run
χ² / ndf 1123 / 88
p0 16.01± 1.06e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 89
Mean 44.5
Std Dev 25.69
3.5
3
2.5
2
1.5
1
0.5
0
pull1D
Entries 89
Mean 3.553
Std Dev1.333e−07
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

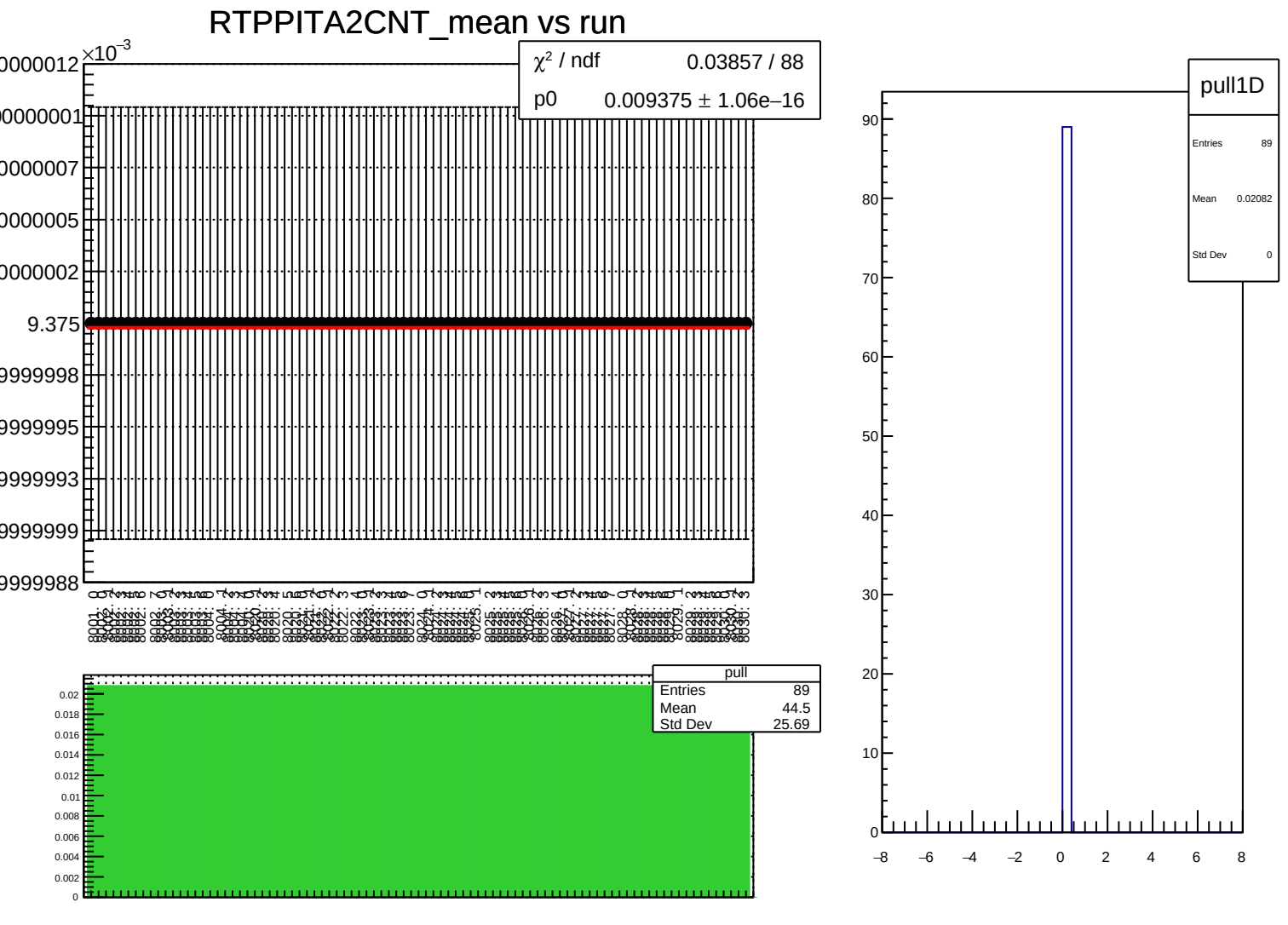

RTPAPOSUCNT_mean vs run
χ² / ndf 1.133e+27 / 88
p0 1146 ± 1.06e−16
1146.026
1146.024
1146.022
1146.02
1146.018
1146.016
1146.014
1146.012
1146.01
1146.008
pull
Entries 89
Mean −7.684e+08
Std Dev 0
×10¹²
14
12
10
8
6
4
2
0


pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSVCNT_mean vs run
χ² / ndf 7.209e+27 / 88
p0 76.01± 1.06e−16
76.05
76.04
76.03
76.02
76.01
pull
Entries 89
Mean −1.136e+09
Std Dev 0
×10¹²
35
30
25
20
15
10
5
0
−5
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPPITA1CNT_mean vs run
χ² / ndf 0.03857 / 88
p0 0.009375 ± 1.06e−16
×10⁻³
pull
Entries 89
Mean 44.5
Std Dev 25.69


pull1D
Entries 89
Mean 0.02082
Std Dev 0


RTPPITA2CNT_mean vs run
χ² / ndf 0.03857 / 88
p0 0.009375 ± 1.06e−16
×10⁻³
pull
Entries 89
Mean 44.5
Std Dev 25.69
pull1D
Entries 89
Mean 0.02082
Std Dev 0