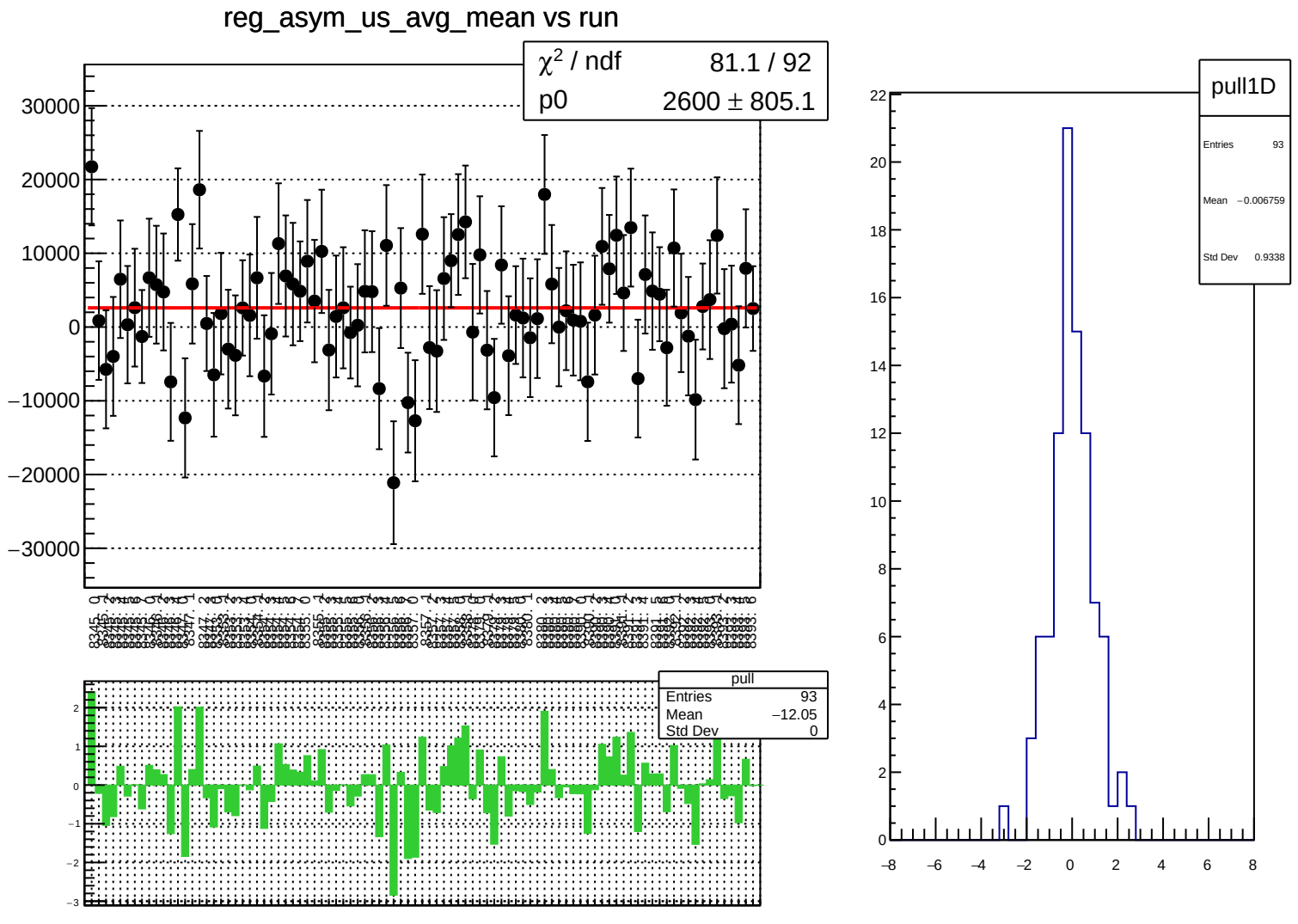
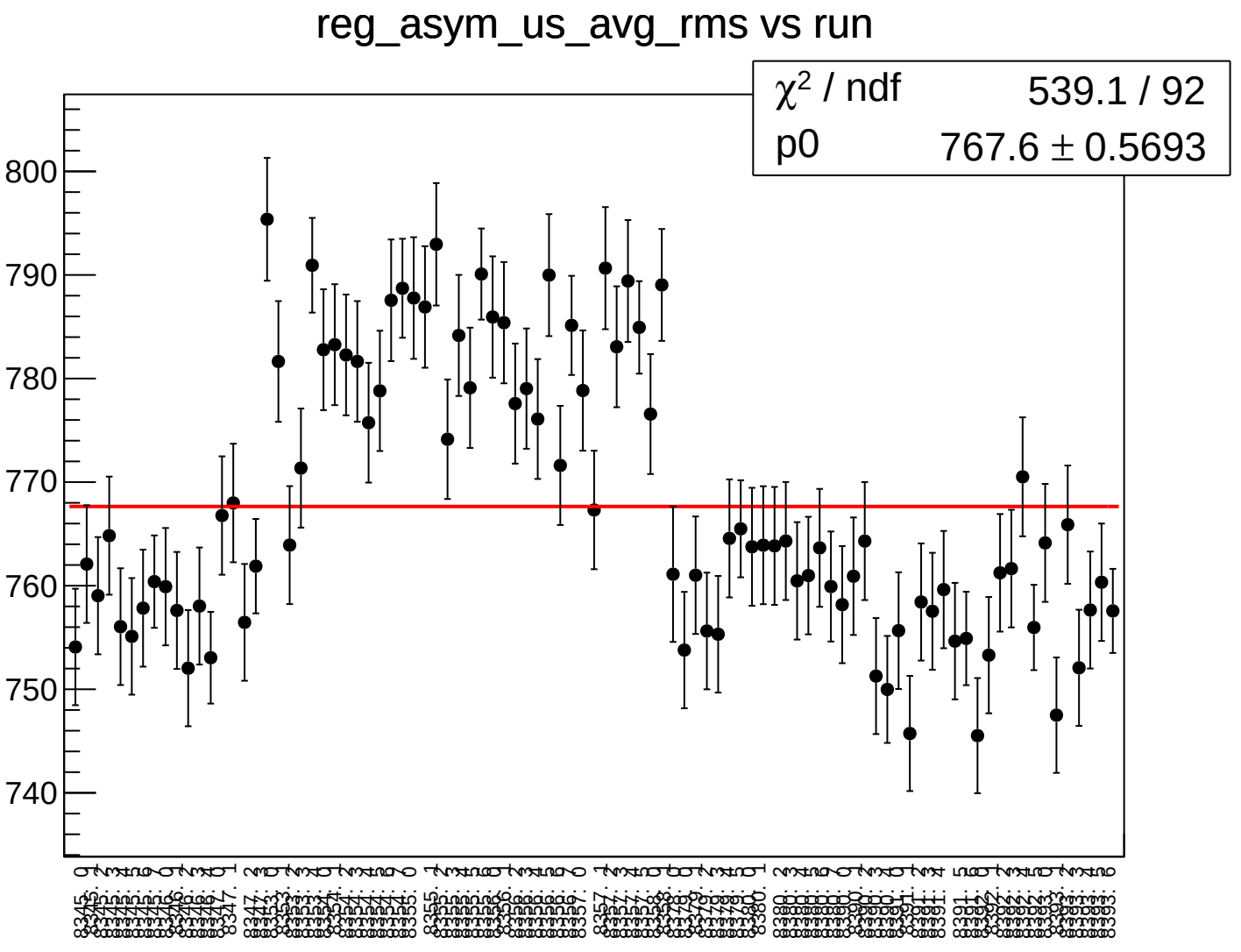
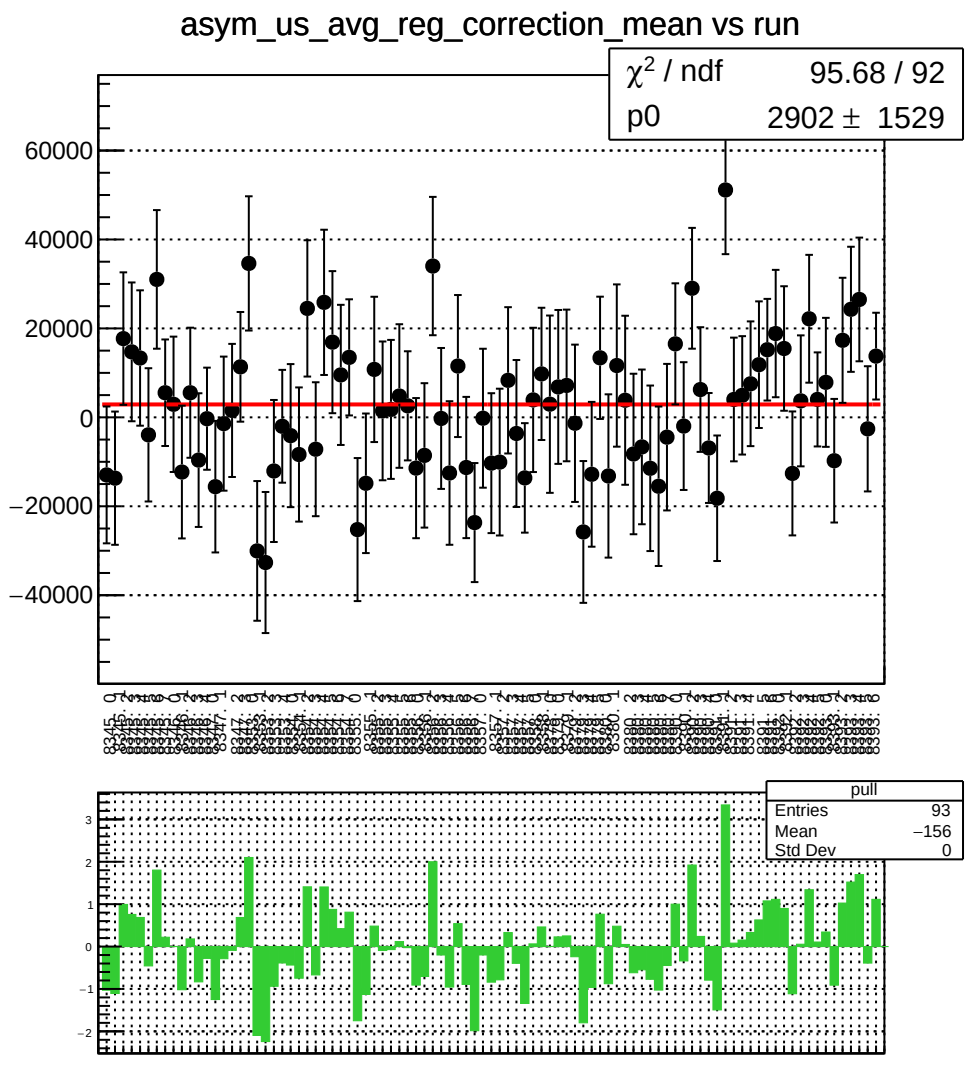
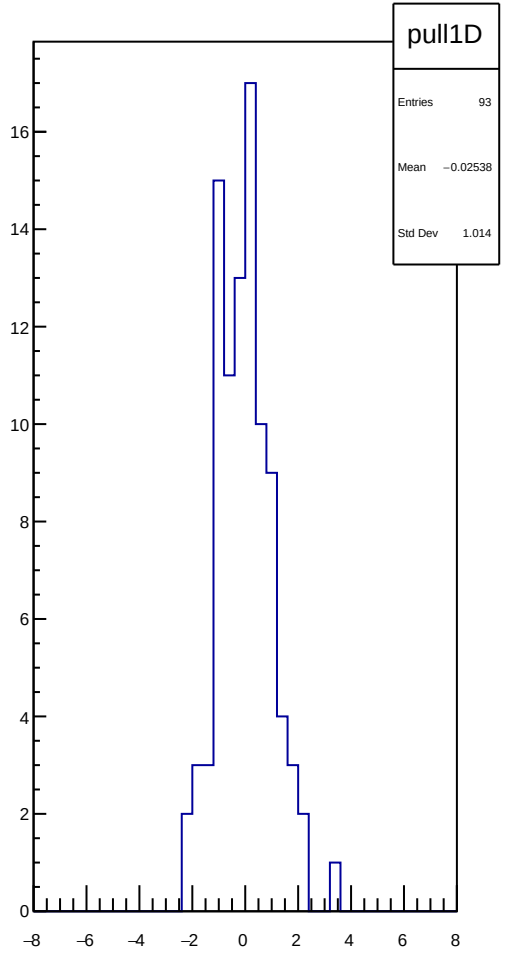
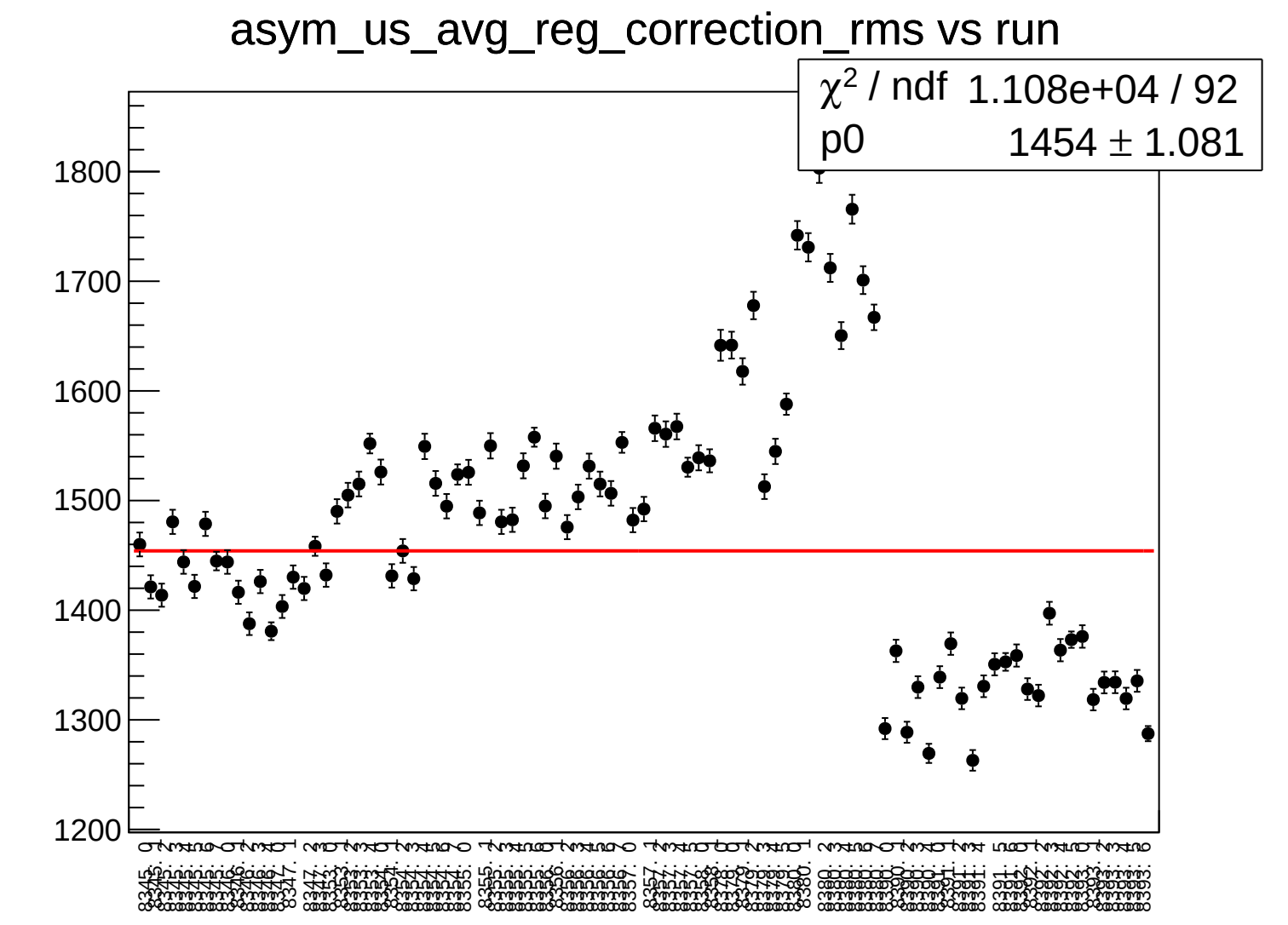
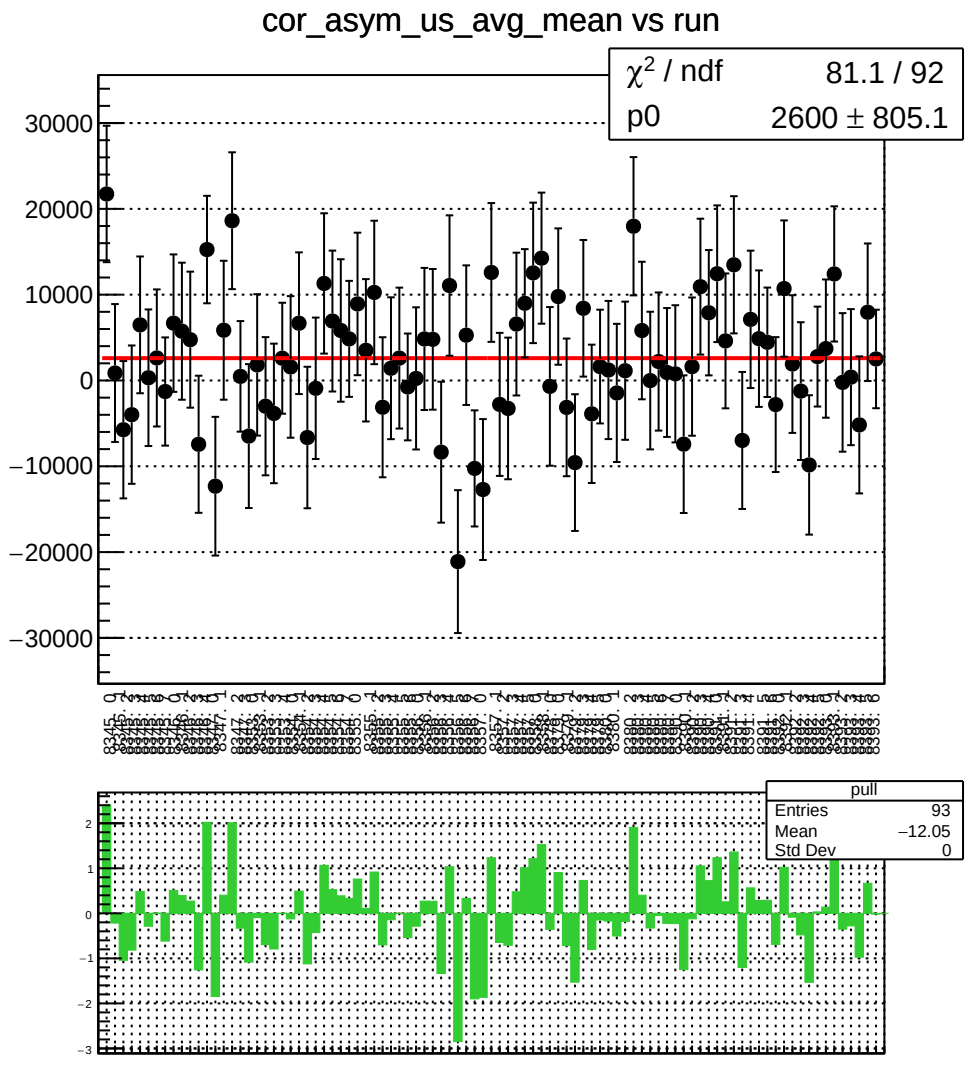

reg_asym_us_avg_mean vs run
χ² / ndf 81.1 / 92
p0 2600 ± 805.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −12.05
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.006759
Std Dev 0.9338
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

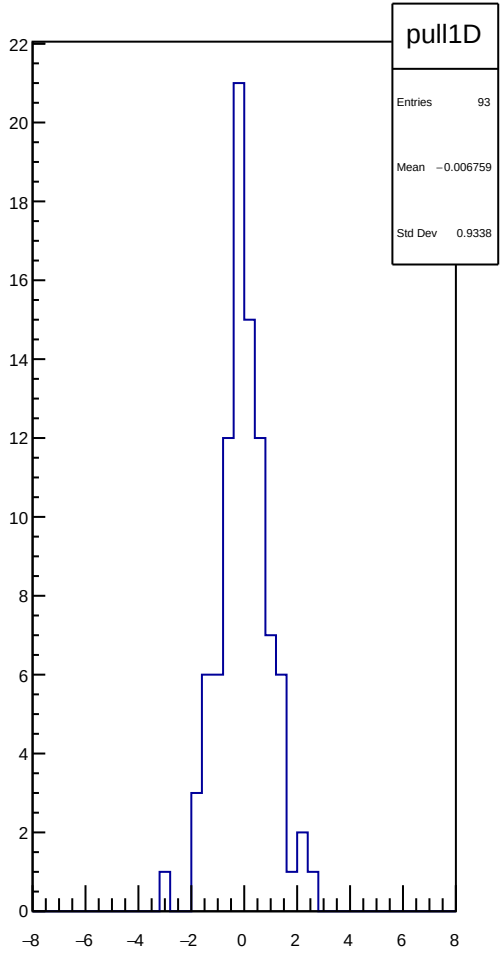

reg_asym_us_avg_rms vs run
χ^2 / ndf 539.1 / 92
p0 767.6 ± 0.5693
800
790
780
770
760
750
740

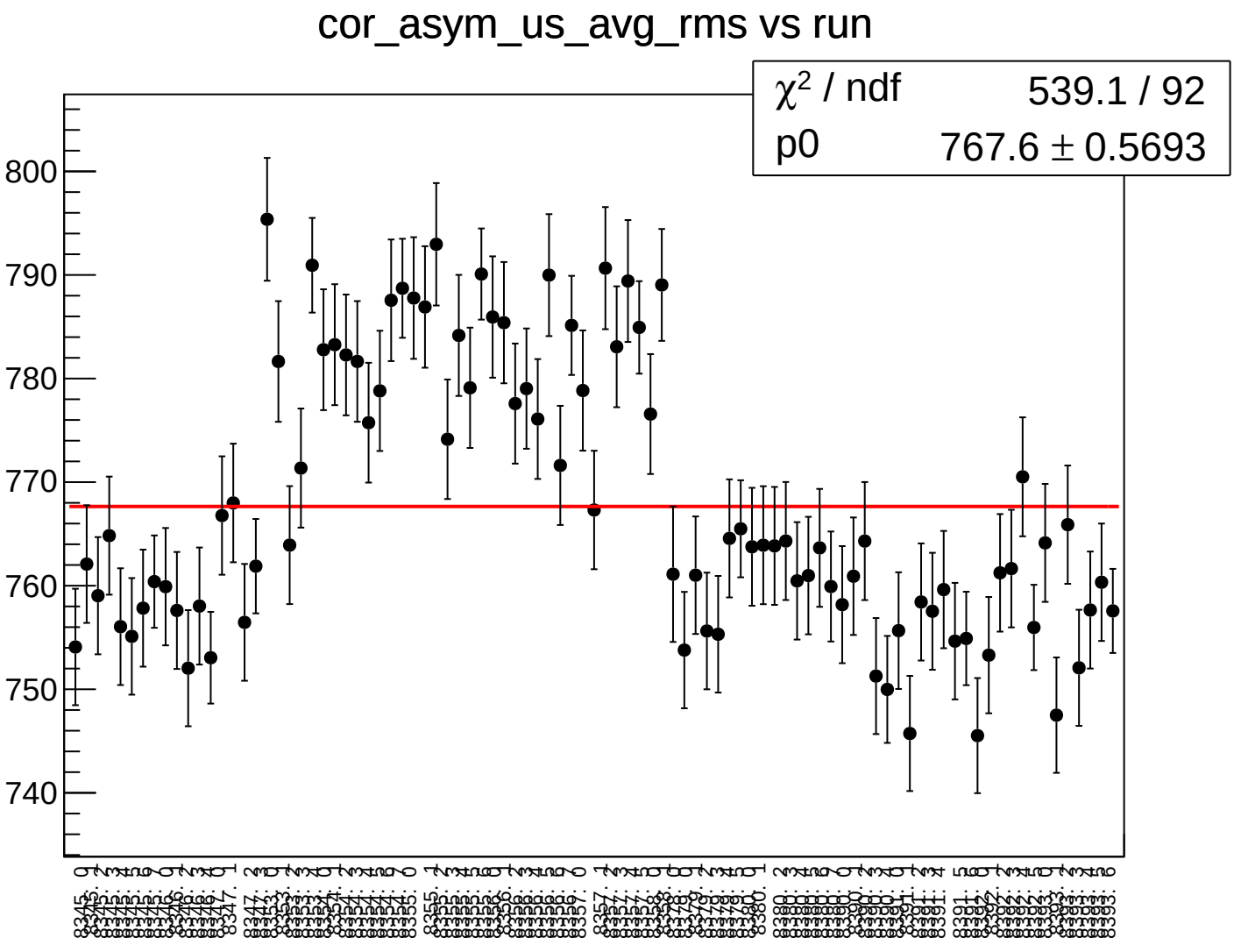

asym_us_avg_reg_correction_mean vs run
χ² / ndf 95.68 / 92
p0 2902 ± 1529
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −156
Std Dev 0
3
2
1
0
−1
−2

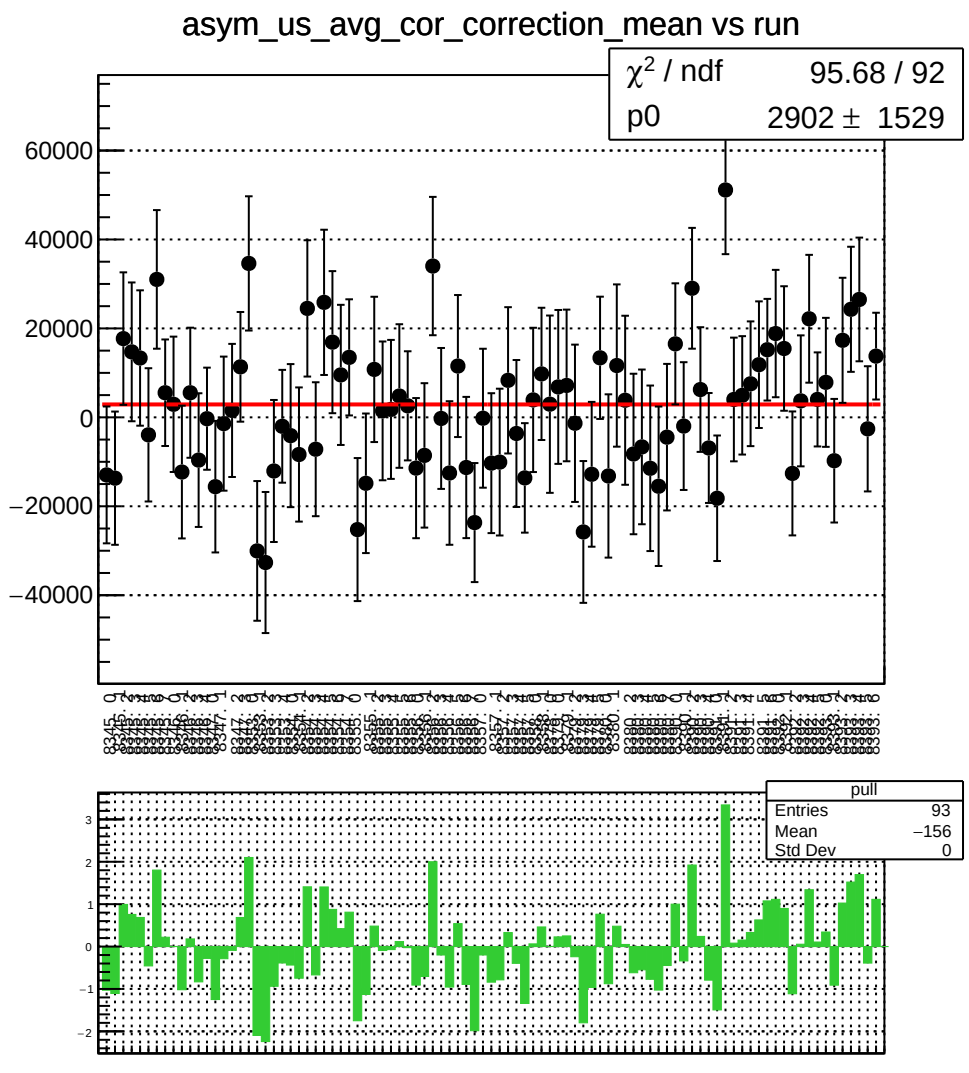

pull1D
Entries 93
Mean −0.02538
Std Dev 1.014
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

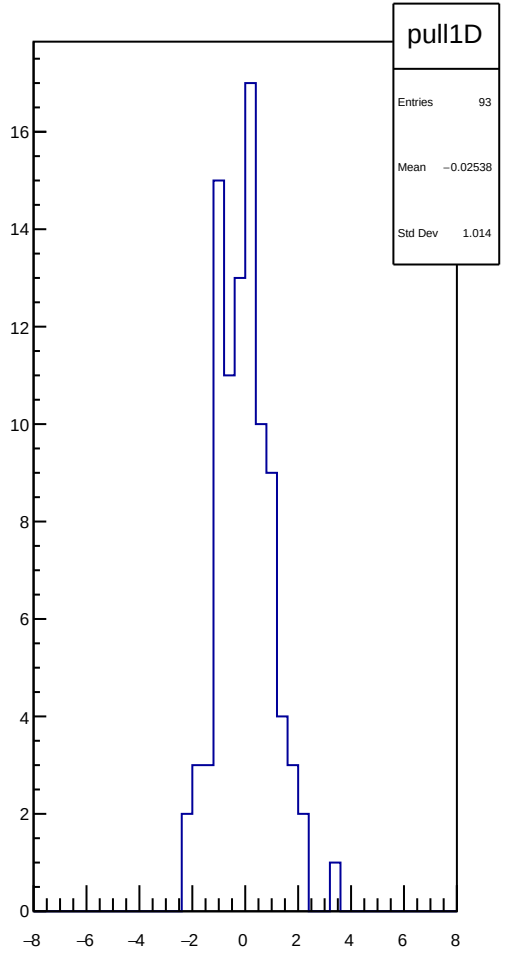

asym_us_avg_reg_correction_rms vs run
χ² / ndf 1.108e+04 / 92
p0 1454 ± 1.081
1800
1700
1600
1500
1400
1300
1200

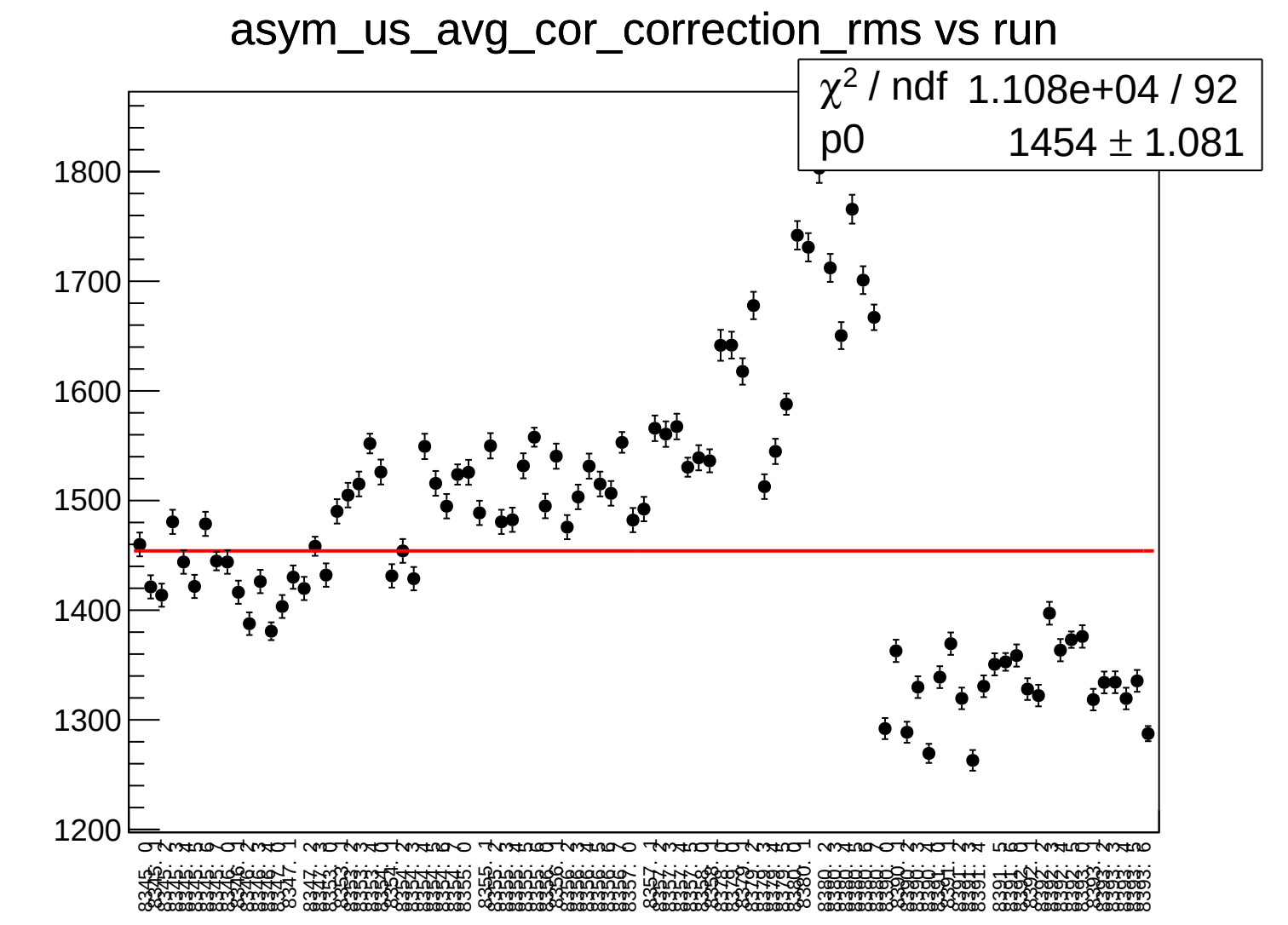

cor_asym_us_avg_mean vs run
χ² / ndf 81.1 / 92
p0 2600 ± 805.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −12.05
Std Dev 0
2
1
0
−1
−2
−3

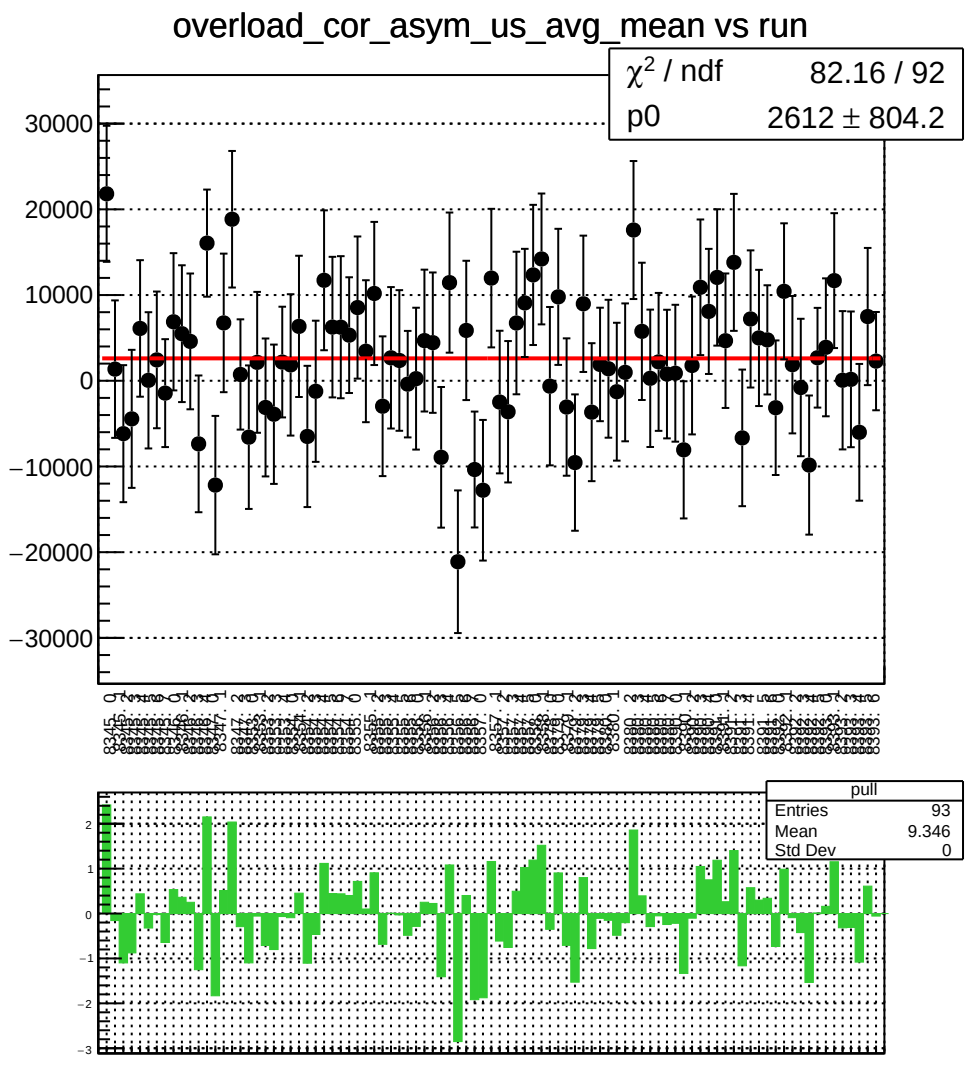

pull1D
Entries 93
Mean −0.006759
Std Dev 0.9338
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

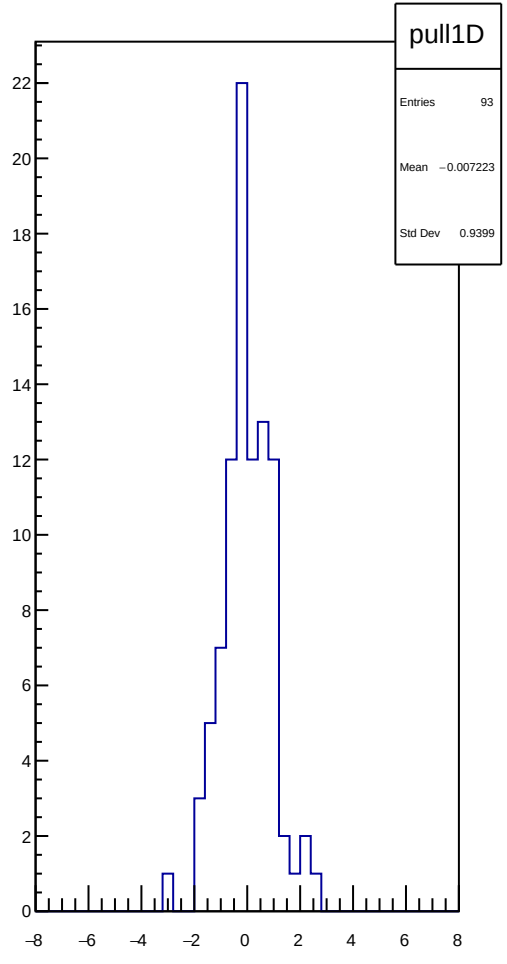

cor_asym_us_avg_rms vs run
χ^2 / ndf 539.1 / 92
p0 767.6 ± 0.5693
800
790
780
770
760
750
740

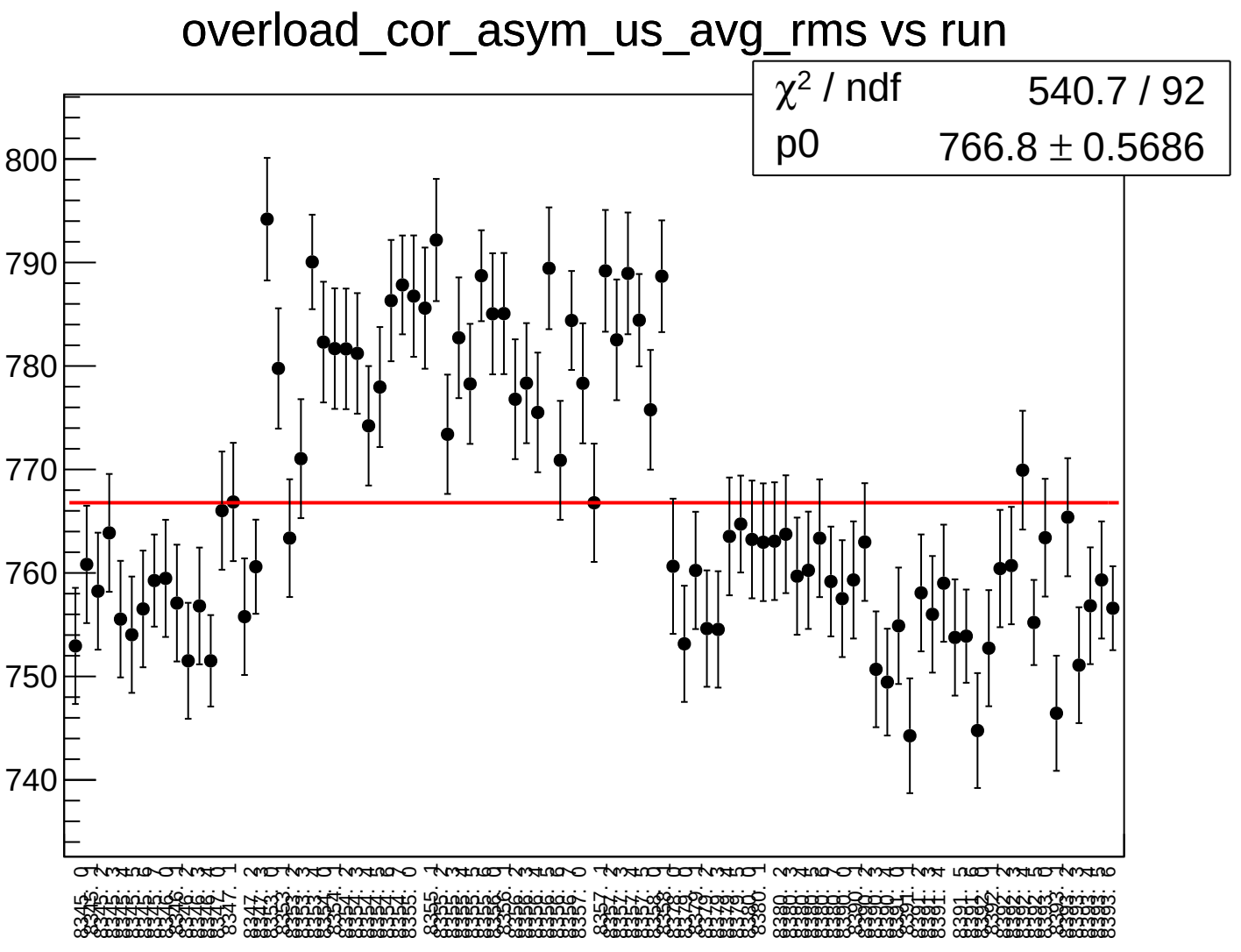

asym_us_avg_cor_correction_mean vs run
χ² / ndf 95.68 / 92
p0 2902 ± 1529
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −156
Std Dev 0
3
2
1
0
−1
−2

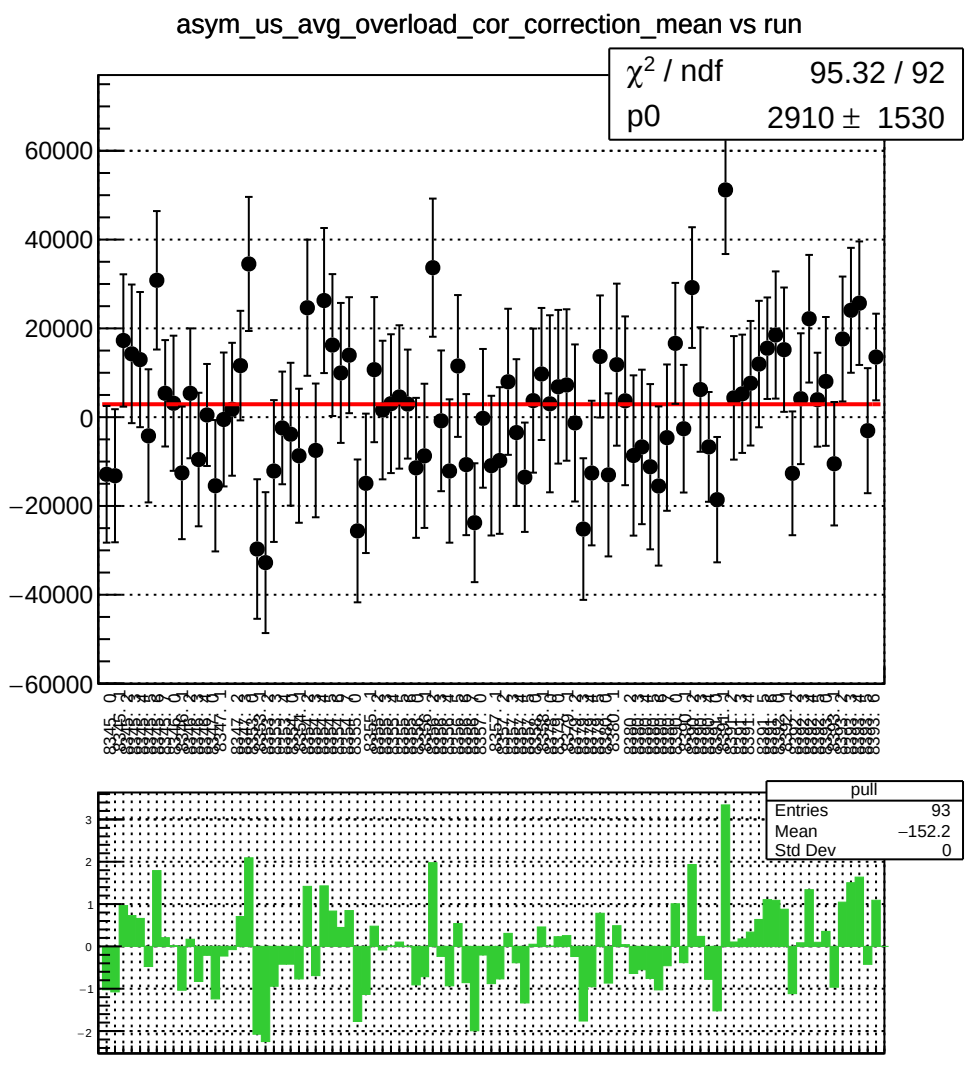

pull1D
Entries 93
Mean −0.02538
Std Dev 1.014
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

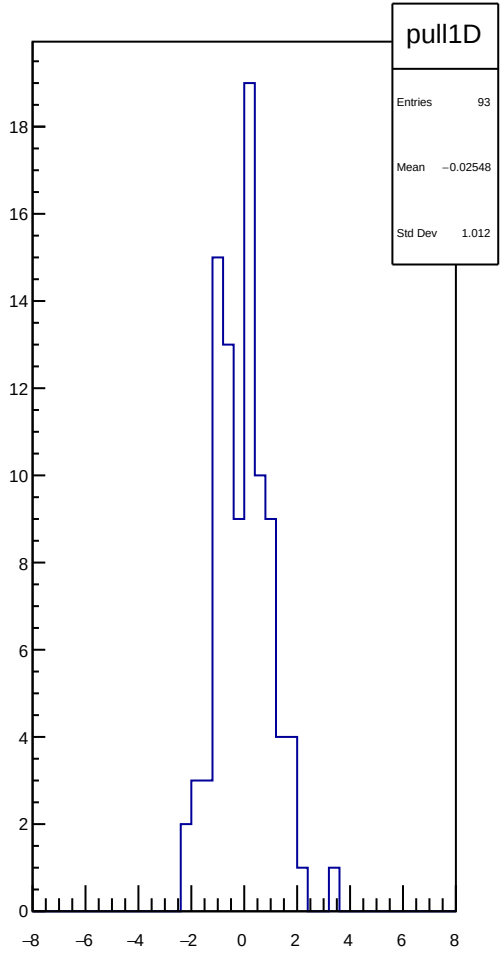

asym_us_avg_cor_correction_rms vs run
χ² / ndf 1.108e+04 / 92
p0 1454 ± 1.081
1800
1700
1600
1500
1400
1300
1200

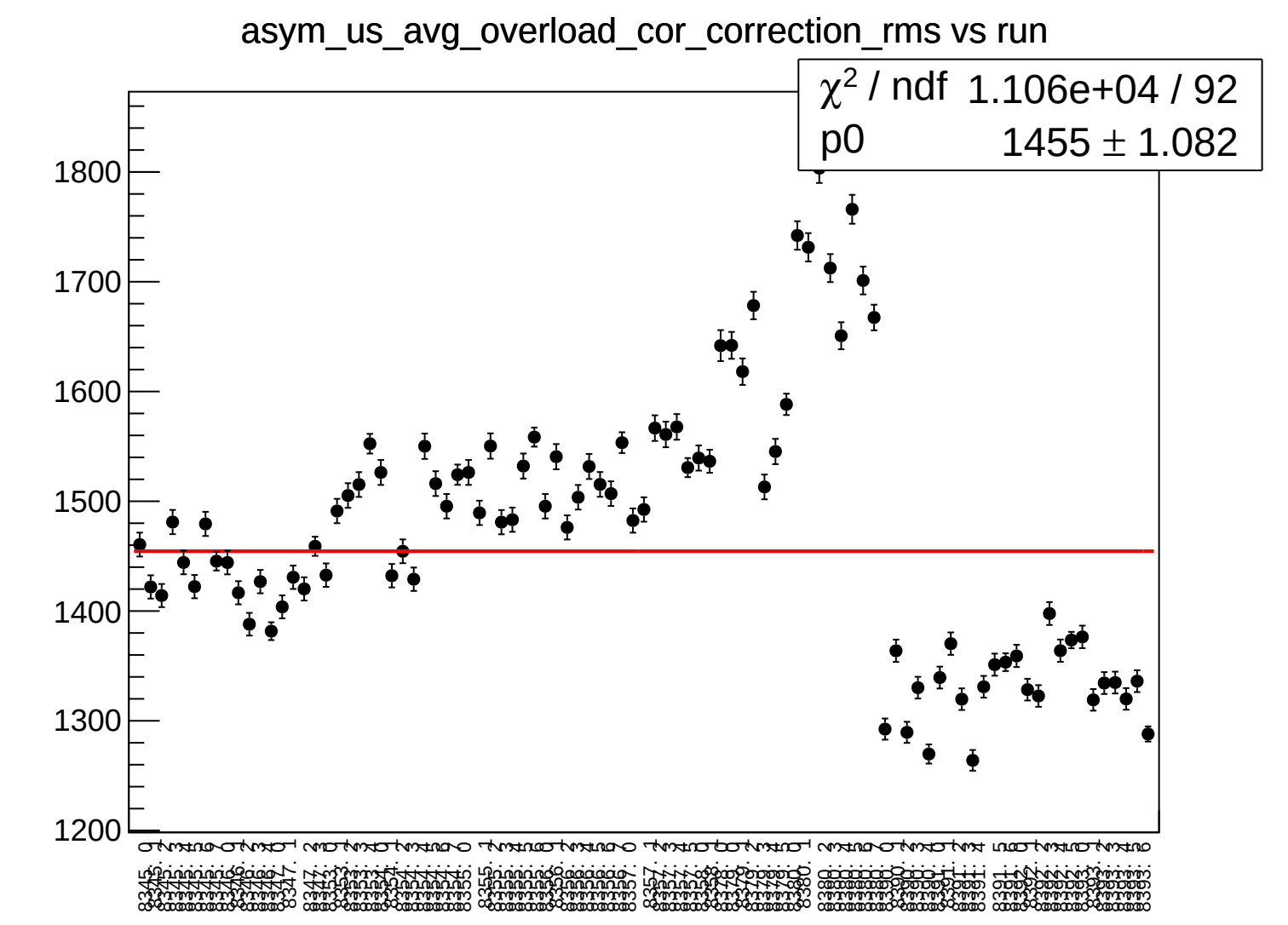

overload_cor_asym_us_avg_mean vs run
χ² / ndf 82.16 / 92
p0 2612 ± 804.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean 9.346
Std Dev 0
2
1
0
−1
−2
−3

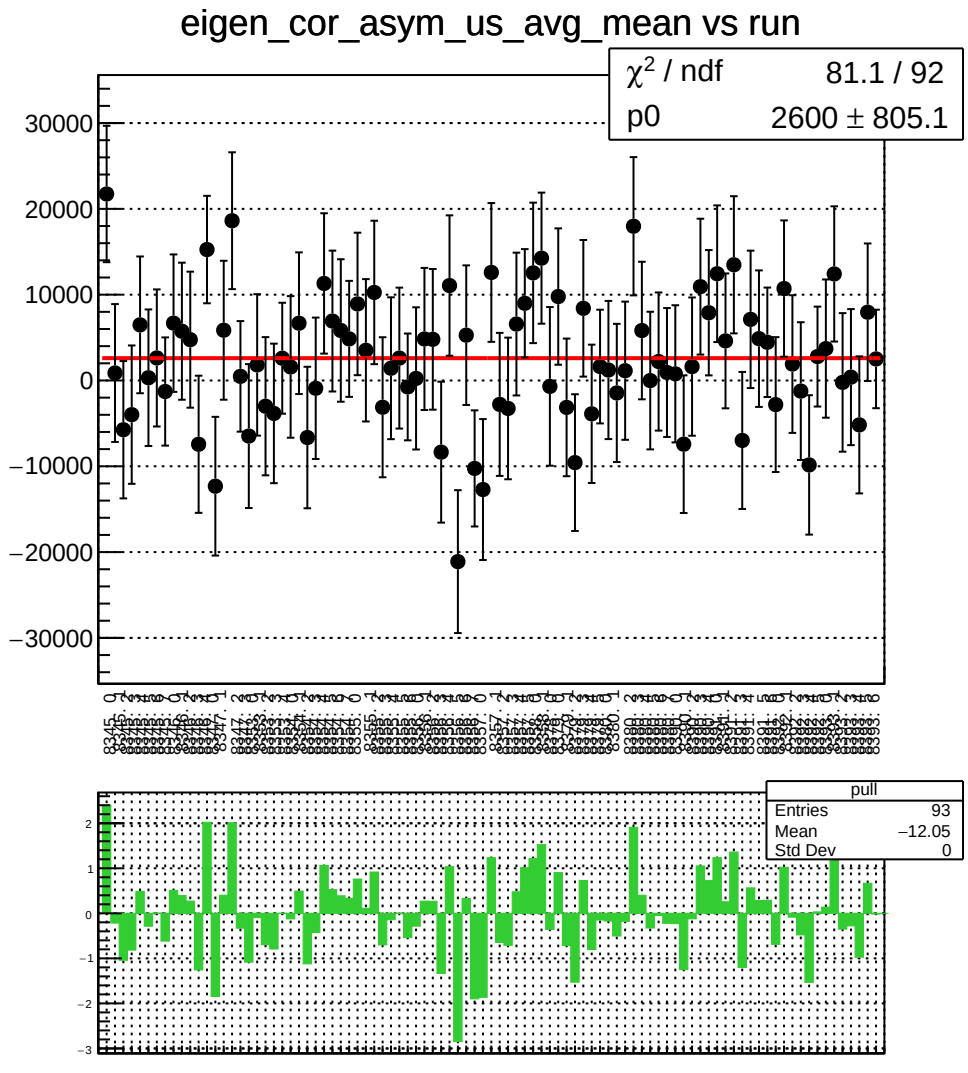

pull1D
Entries 93
Mean −0.007223
Std Dev 0.9399
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

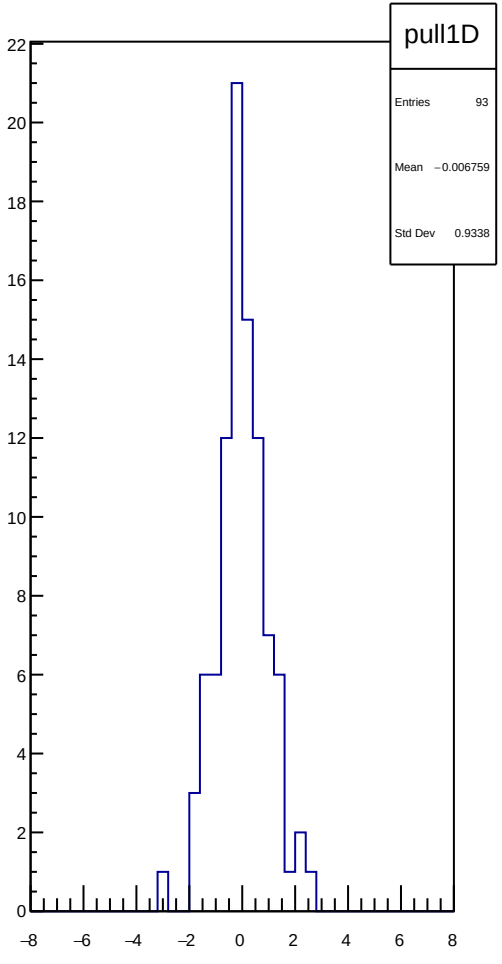

overload_cor_asym_us_avg_rms vs run
χ² / ndf 540.7 / 92
p0 766.8 ± 0.5686
800
790
780
770
760
750
740

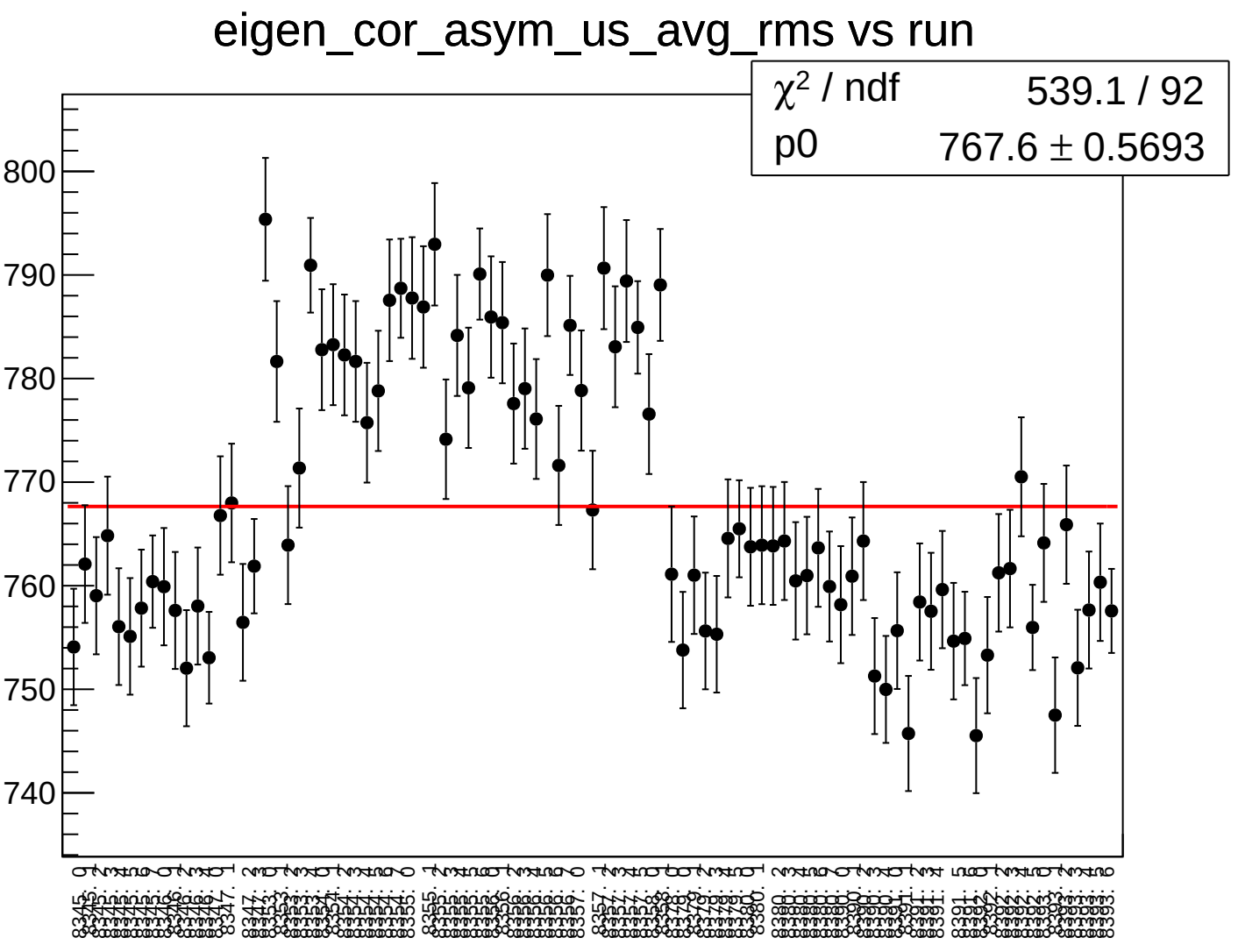

asym_us_avg_overload_cor_correction_mean vs run
χ² / ndf 95.32 / 92
p0 2910 ± 1530
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −152.2
Std Dev 0
3
2
1
0
−1
−2

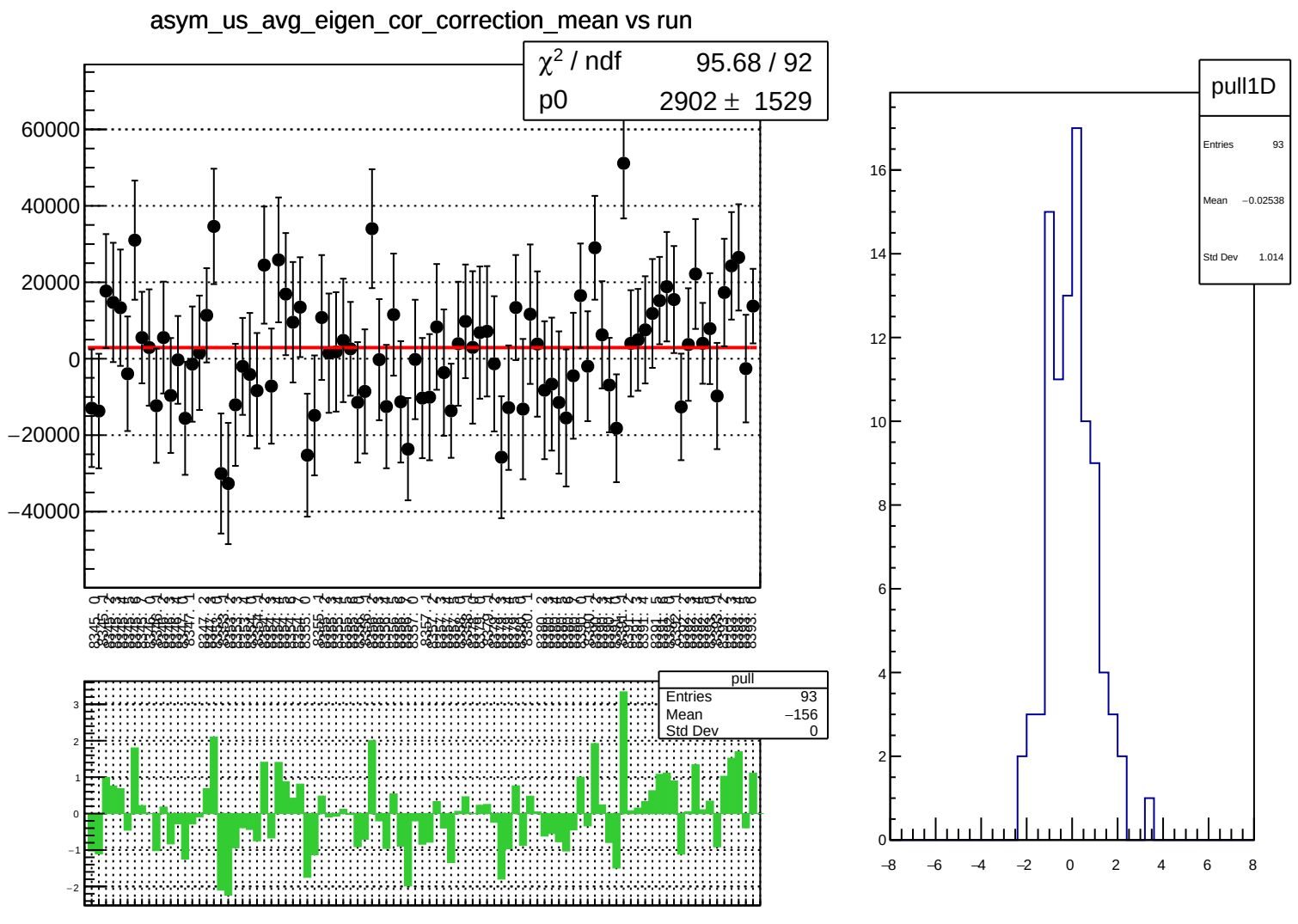

pull1D
Entries 93
Mean −0.02548
Std Dev 1.012
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

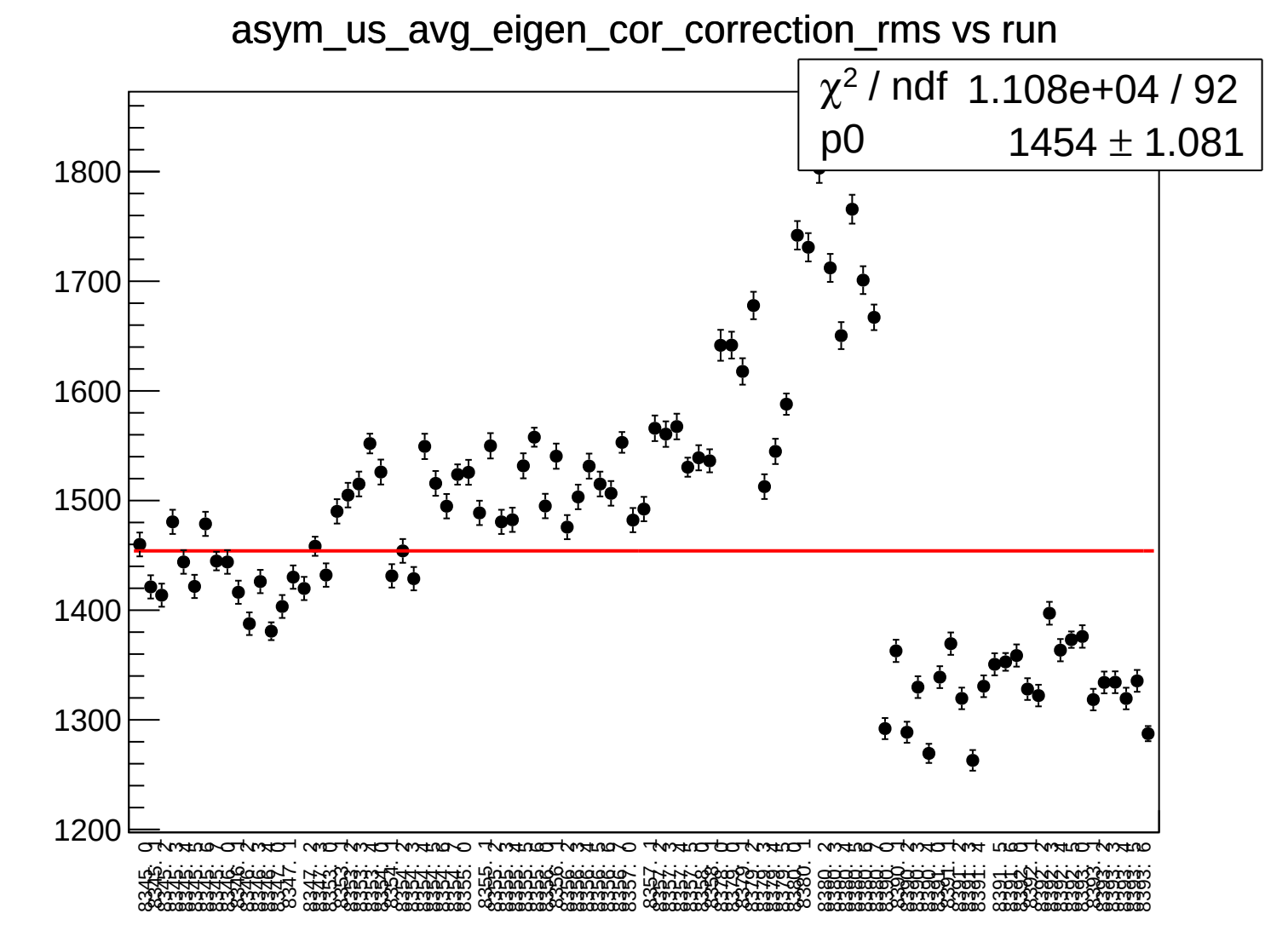

asym_us_avg_overload_cor_correction_rms vs run
χ² / ndf 1.106e+04 / 92
p0 1455 ± 1.082
1800
1700
1600
1500
1400
1300
1200

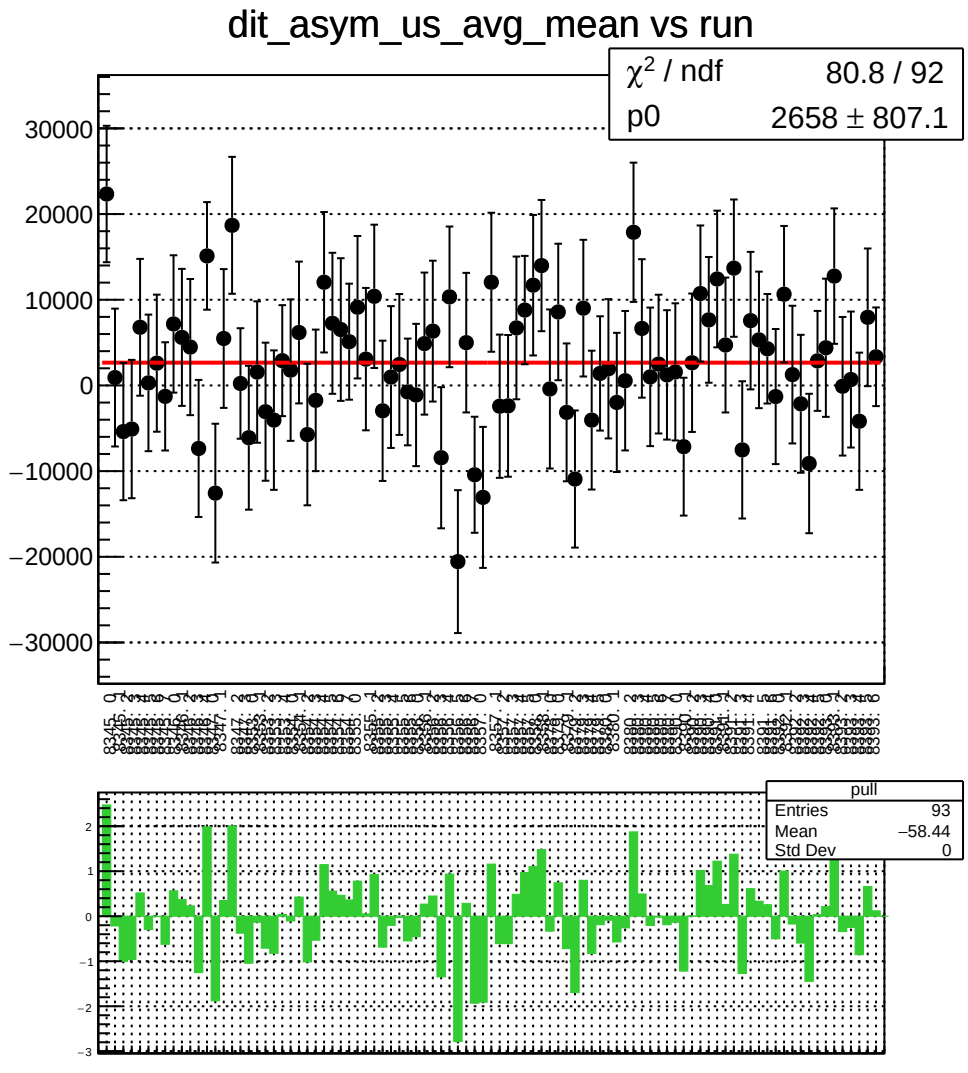

eigen_cor_asym_us_avg_mean vs run
χ² / ndf 81.1 / 92
p0 2600 ± 805.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −12.05
Std Dev 0
2
1
0
−1
−2
−3

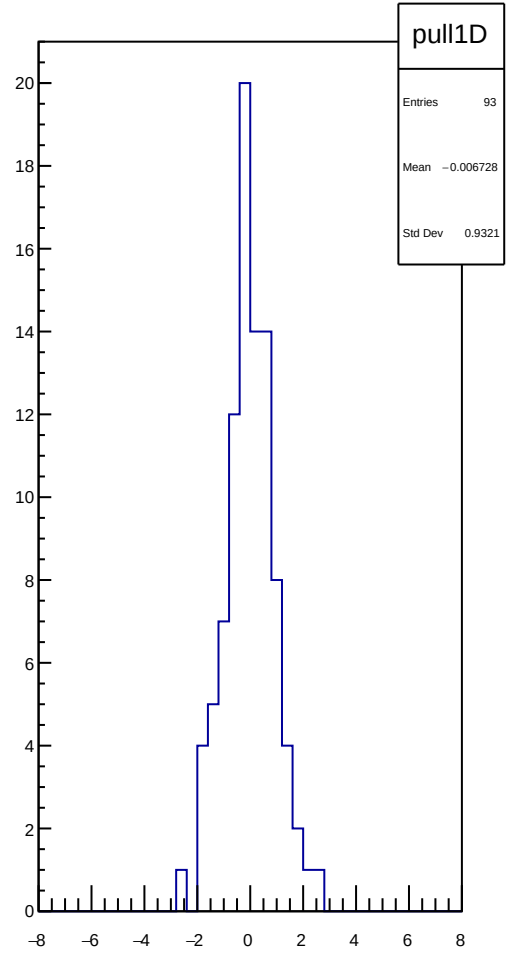

pull1D
Entries 93
Mean −0.006759
Std Dev 0.9338
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

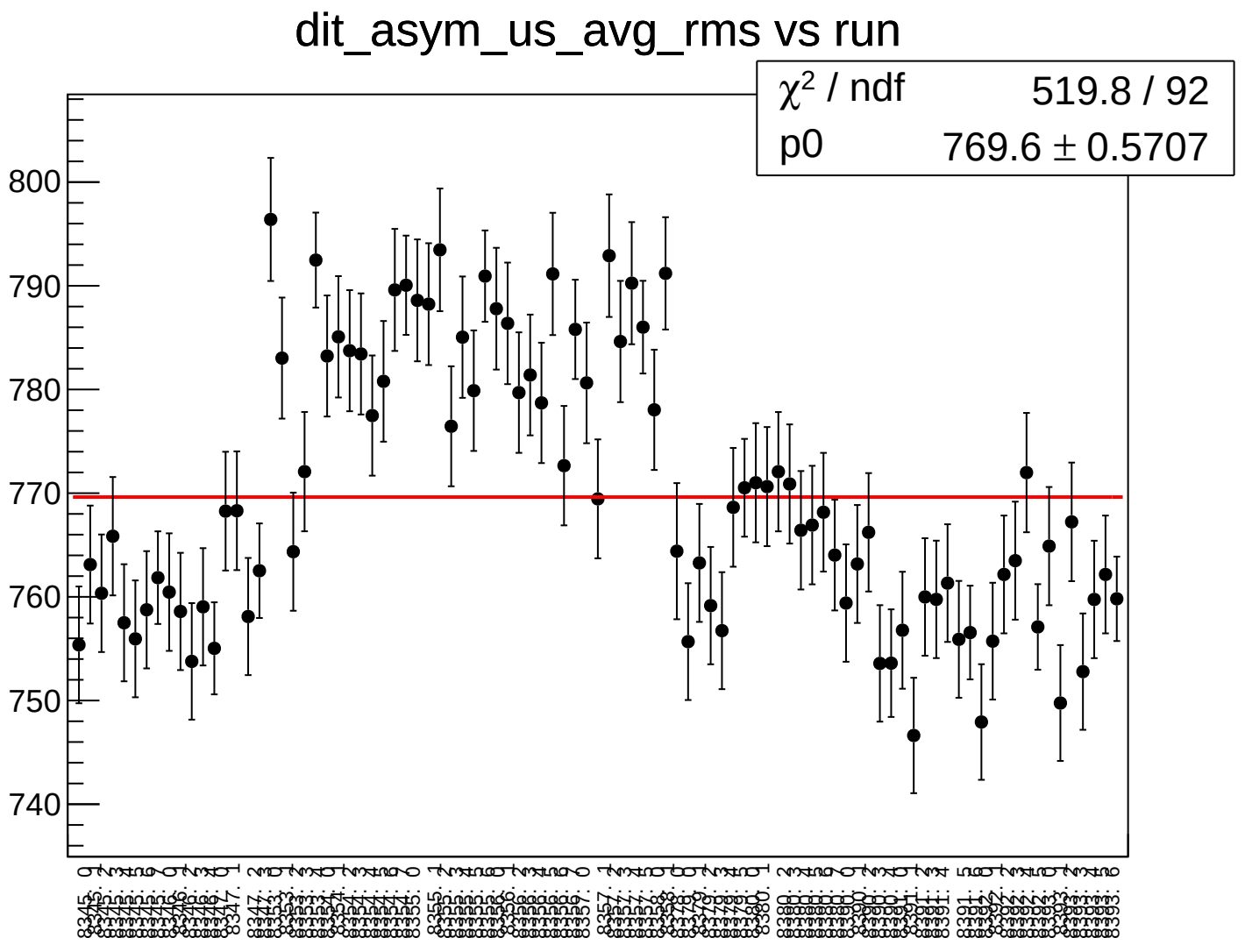

eigen_cor_asym_us_avg_rms vs run
χ² / ndf 539.1 / 92
p0 767.6 ± 0.5693
800
790
780
770
760
750
740

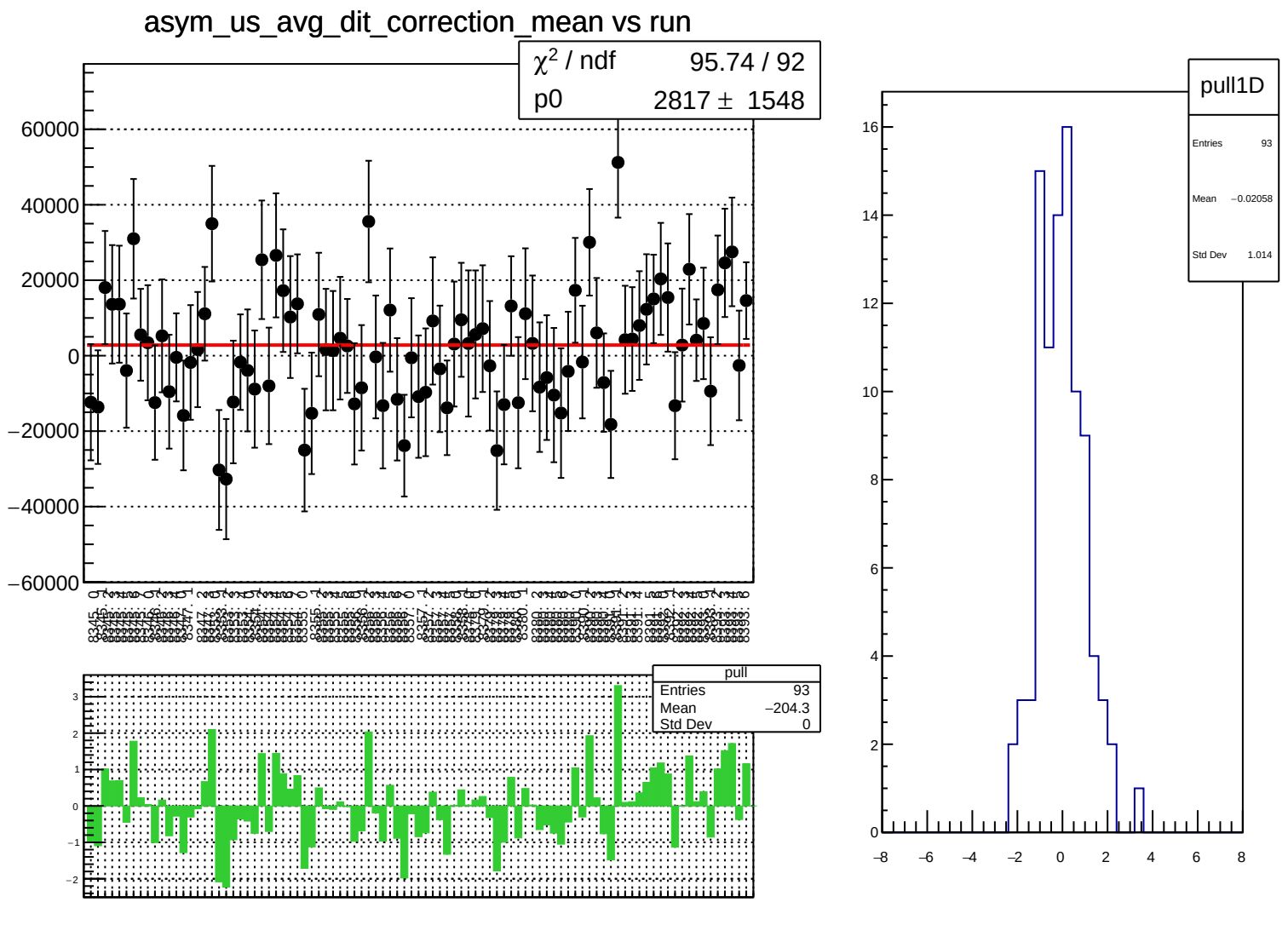

asym_us_avg_eigen_cor_correction_mean vs run
χ² / ndf 95.68 / 92
p0 2902 ± 1529
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −156
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.02538
Std Dev 1.014
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

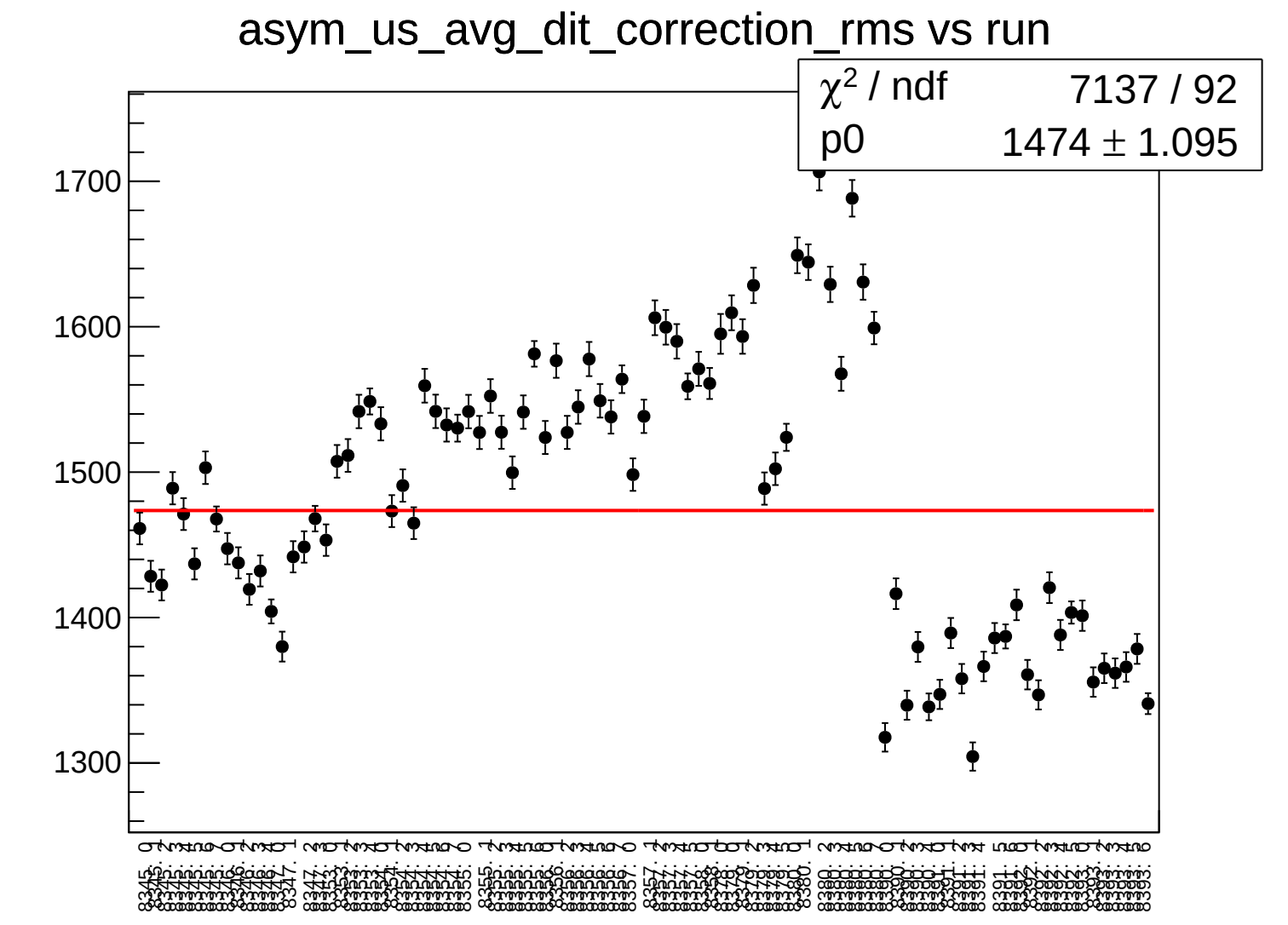

asym_us_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 1.108e+04 / 92
p0 1454 ± 1.081
1800
1700
1600
1500
1400
1300
1200

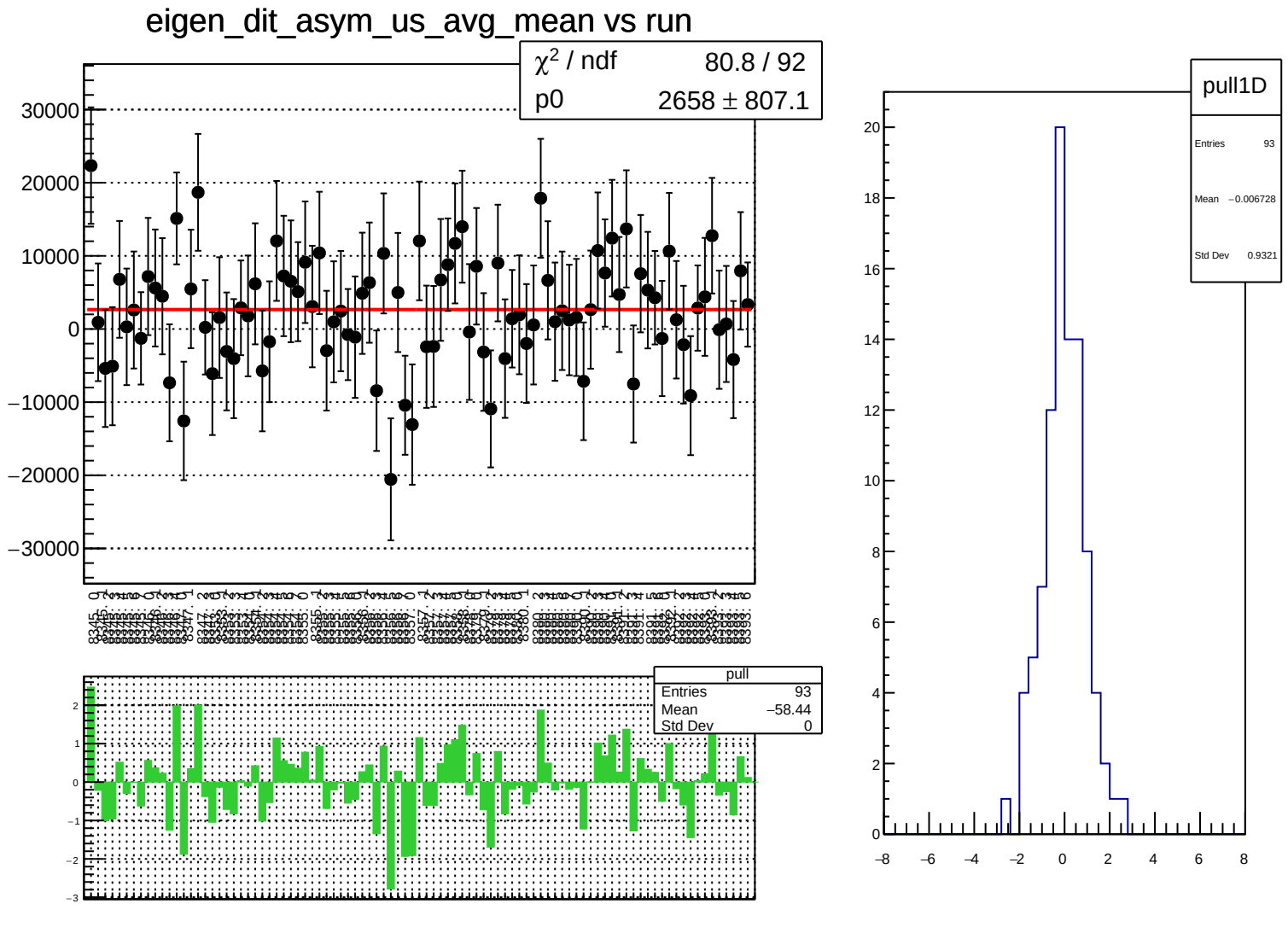

dit_asym_us_avg_mean vs run
χ² / ndf 80.8 / 92
p0 2658 ± 807.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −58.44
Std Dev 0
2
1
0
−1
−2
−3

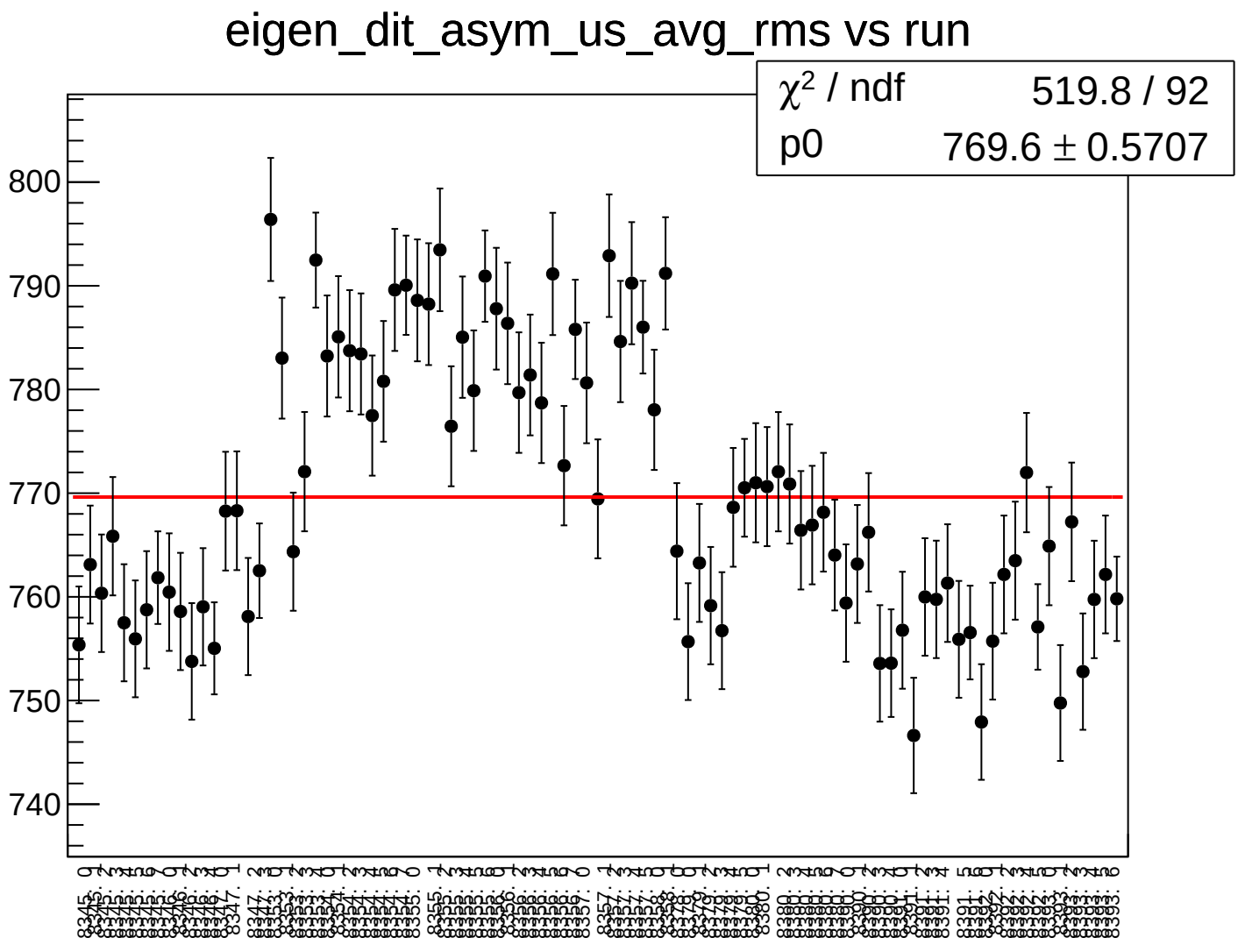

pull1D
Entries 93
Mean −0.006728
Std Dev 0.9321
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

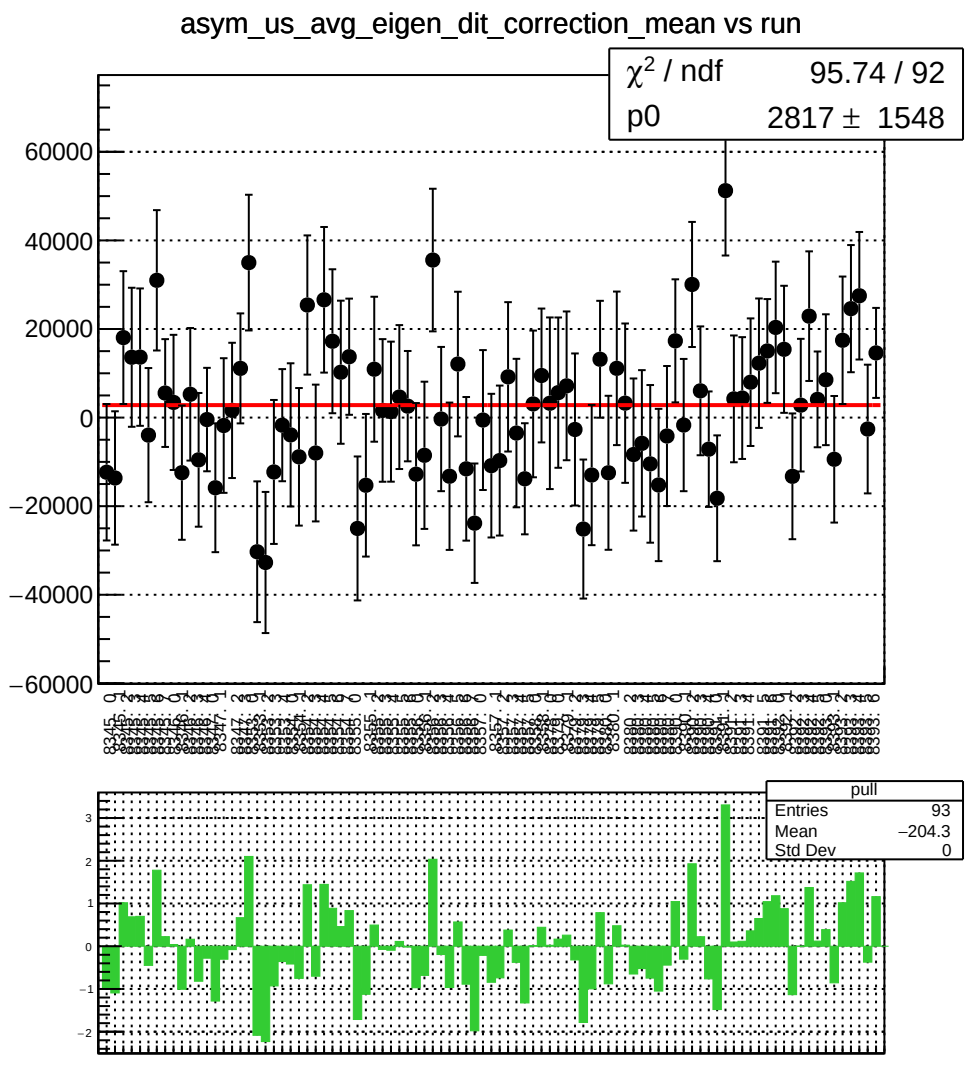

dit_asym_us_avg_rms vs run
χ² / ndf 519.8 / 92
p0 769.6 ± 0.5707
800
790
780
770
760
750
740

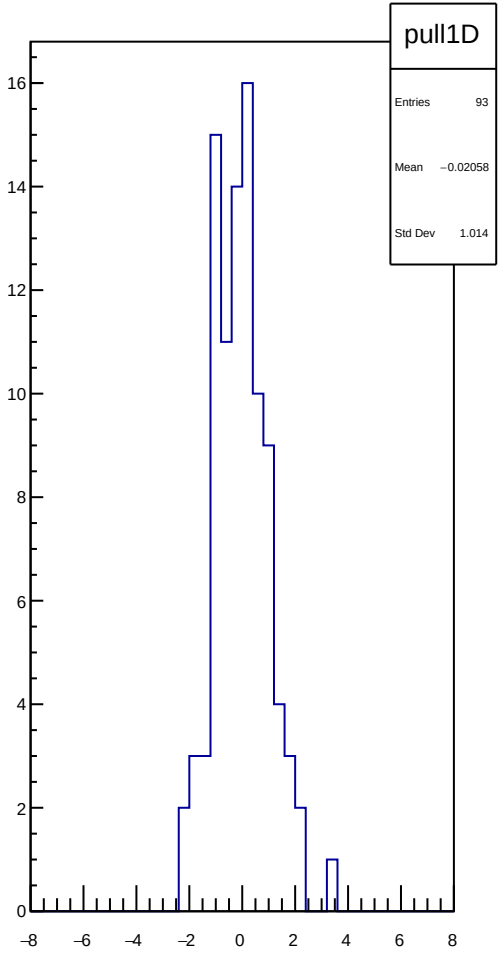

asym_us_avg_dit_correction_mean vs run
χ² / ndf 95.74 / 92
p0 2817 ± 1548
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −204.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.02058
Std Dev 1.014
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

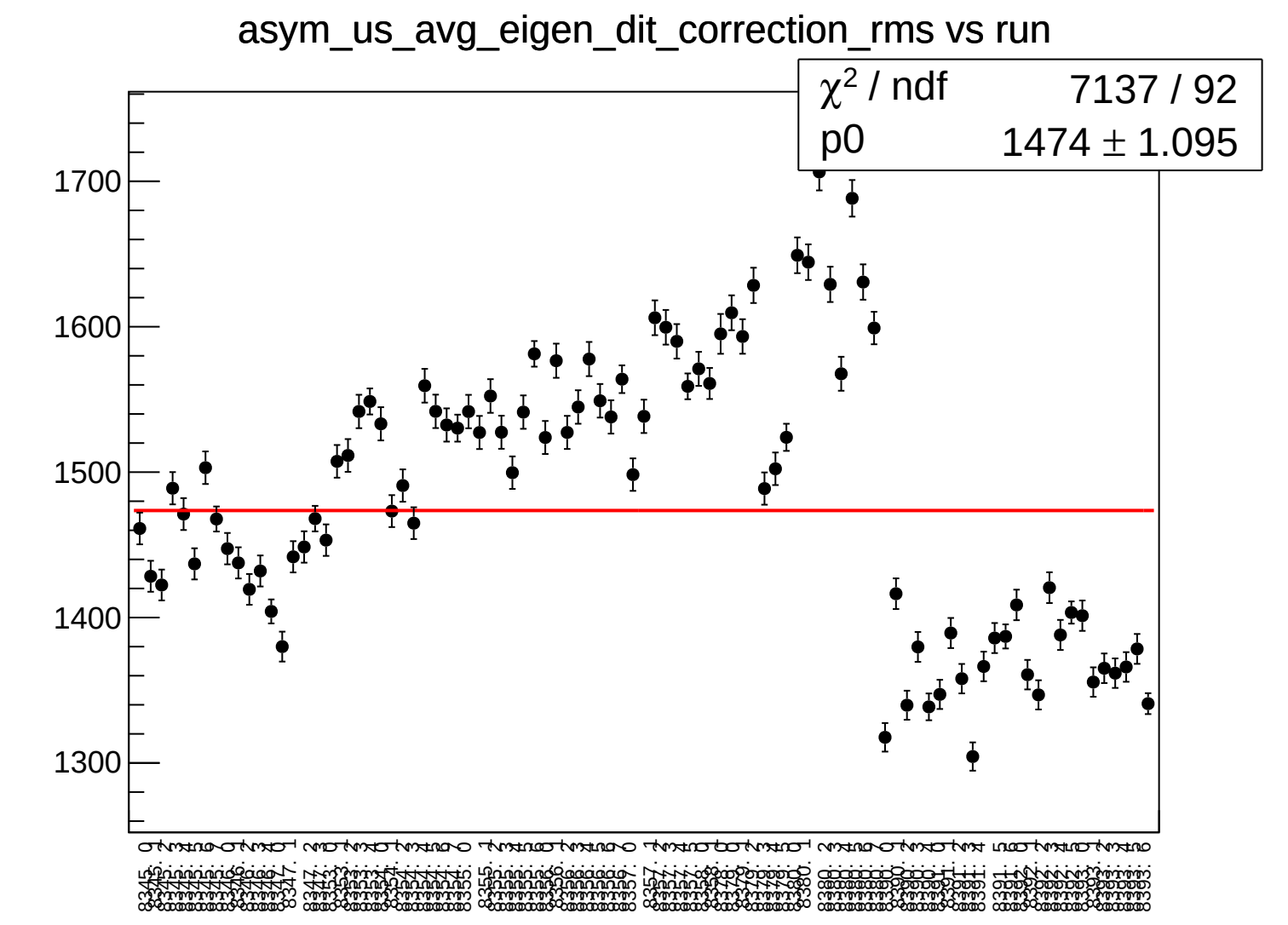

asym_us_avg_dit_correction_rms vs run
χ² / ndf 7137 / 92
p0 1474 ± 1.095
1700
1600
1500
1400
1300

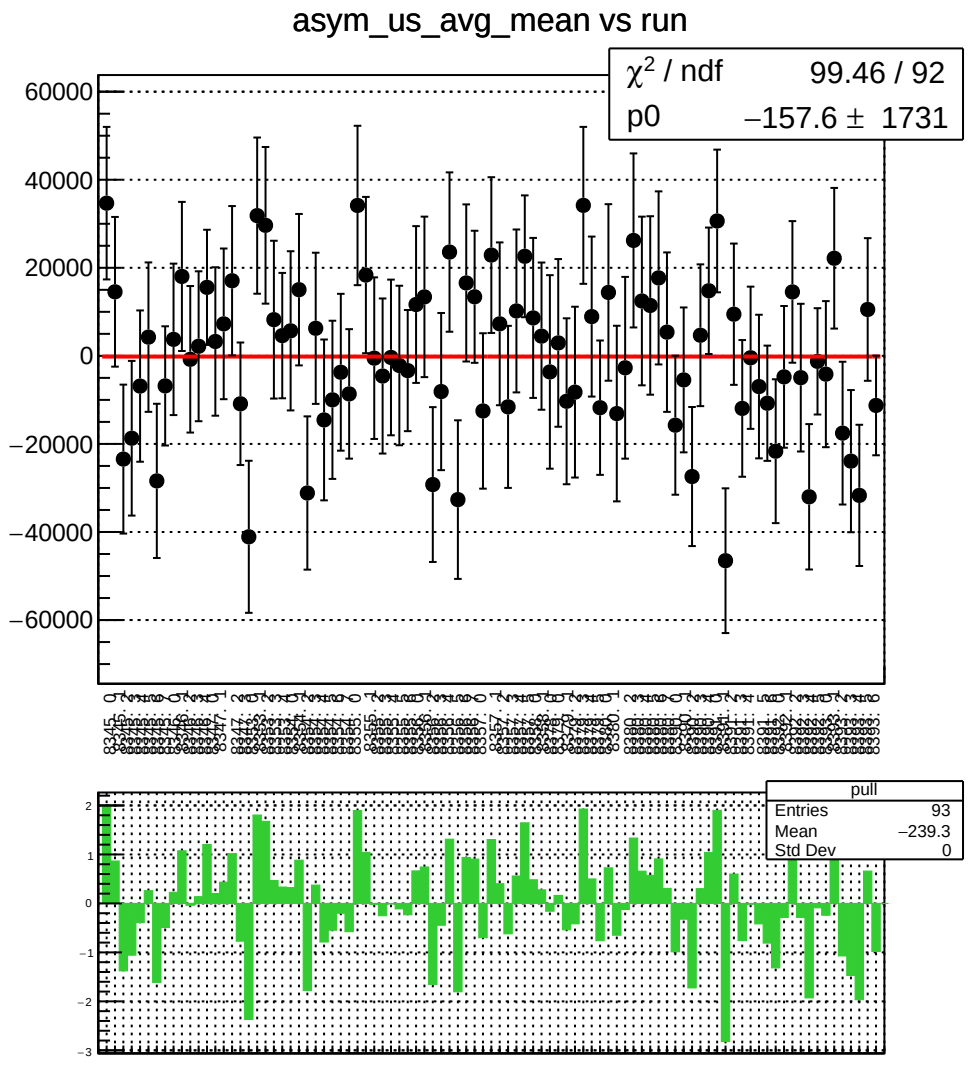

eigen_dit_asym_us_avg_mean vs run
χ² / ndf 80.8 / 92
p0 2658 ± 807.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −58.44
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.006728
Std Dev 0.9321
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

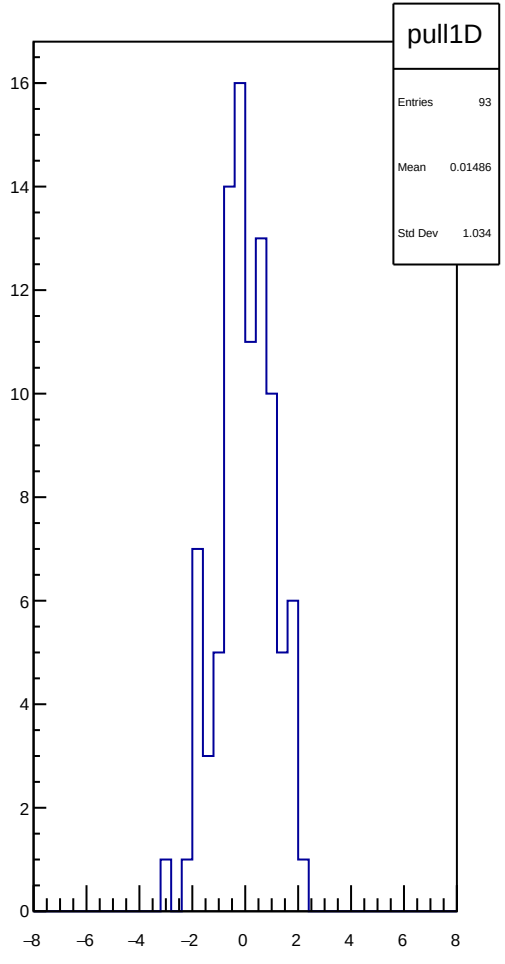

eigen_dit_asym_us_avg_rms vs run
χ² / ndf 519.8 / 92
p0 769.6 ± 0.5707
800
790
780
770
760
750
740

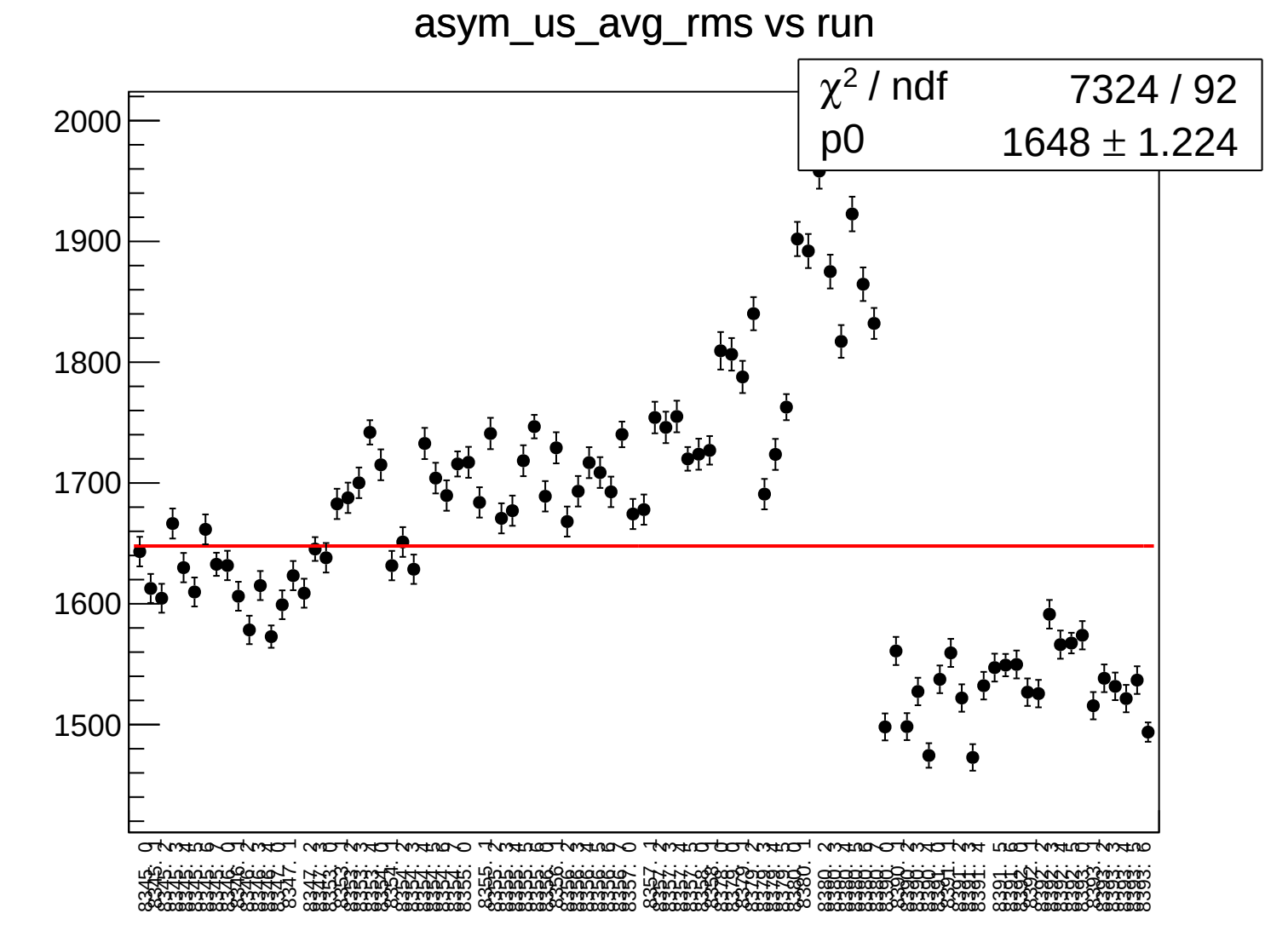

asym_us_avg_eigen_dit_correction_mean vs run
χ² / ndf 95.74 / 92
p0 2817 ± 1548
pull
Entries 93
Mean −204.3
Std Dev 0

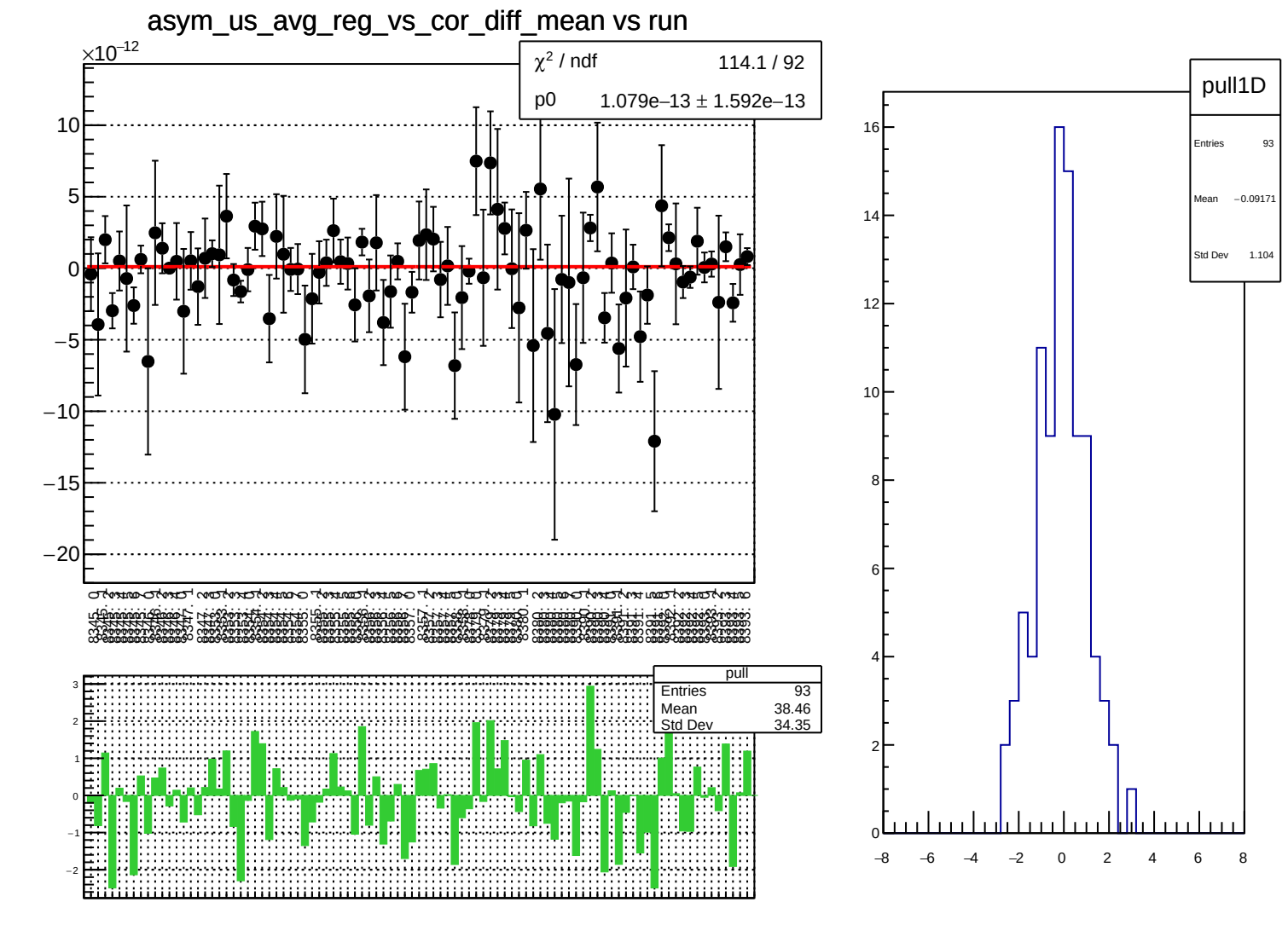

pull1D
Entries 93
Mean −0.02058
Std Dev 1.014

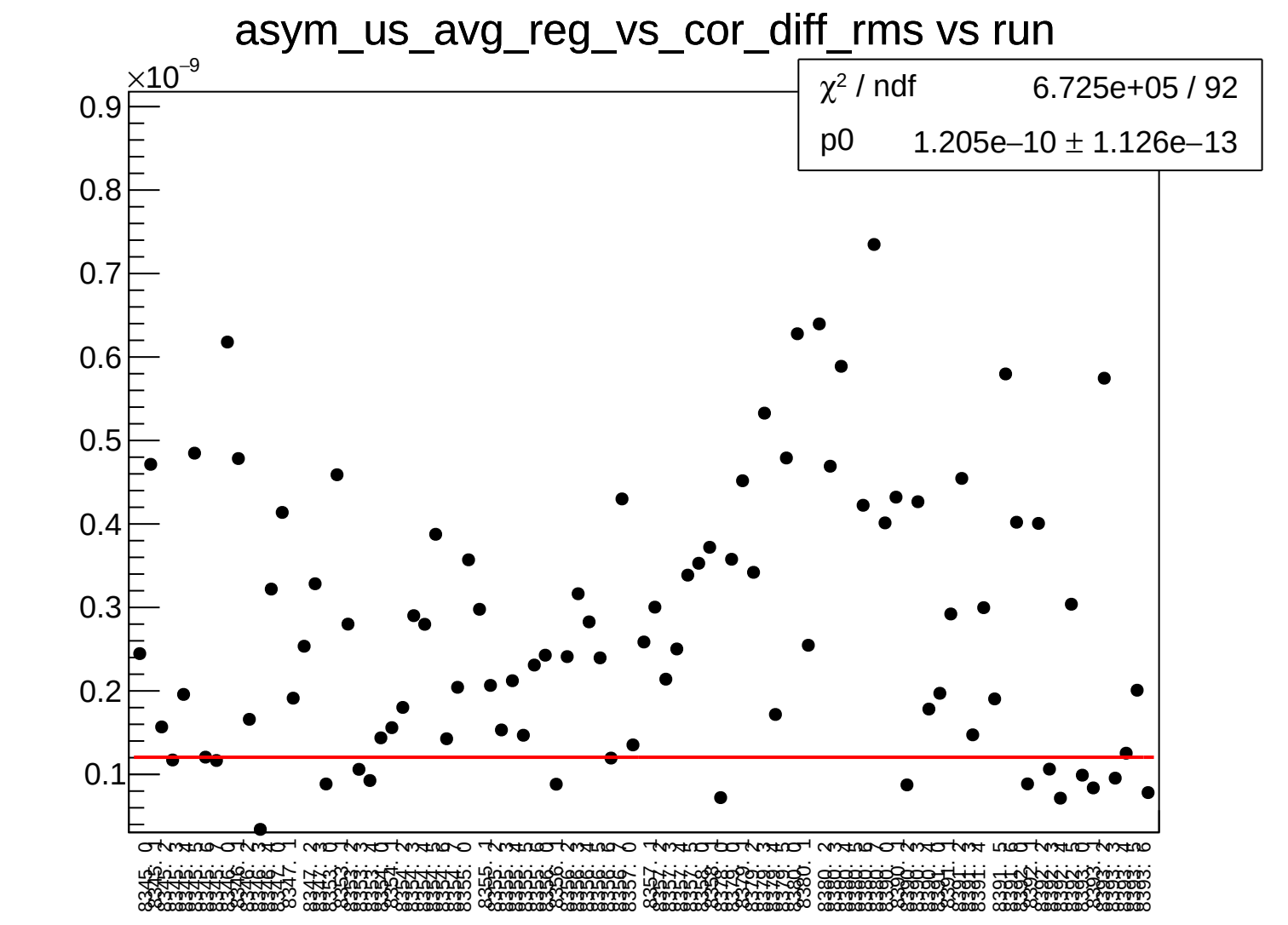

asym_us_avg_eigen_dit_correction_rms vs run
χ² / ndf 7137 / 92
p0 1474 ± 1.095
1700
1600
1500
1400
1300

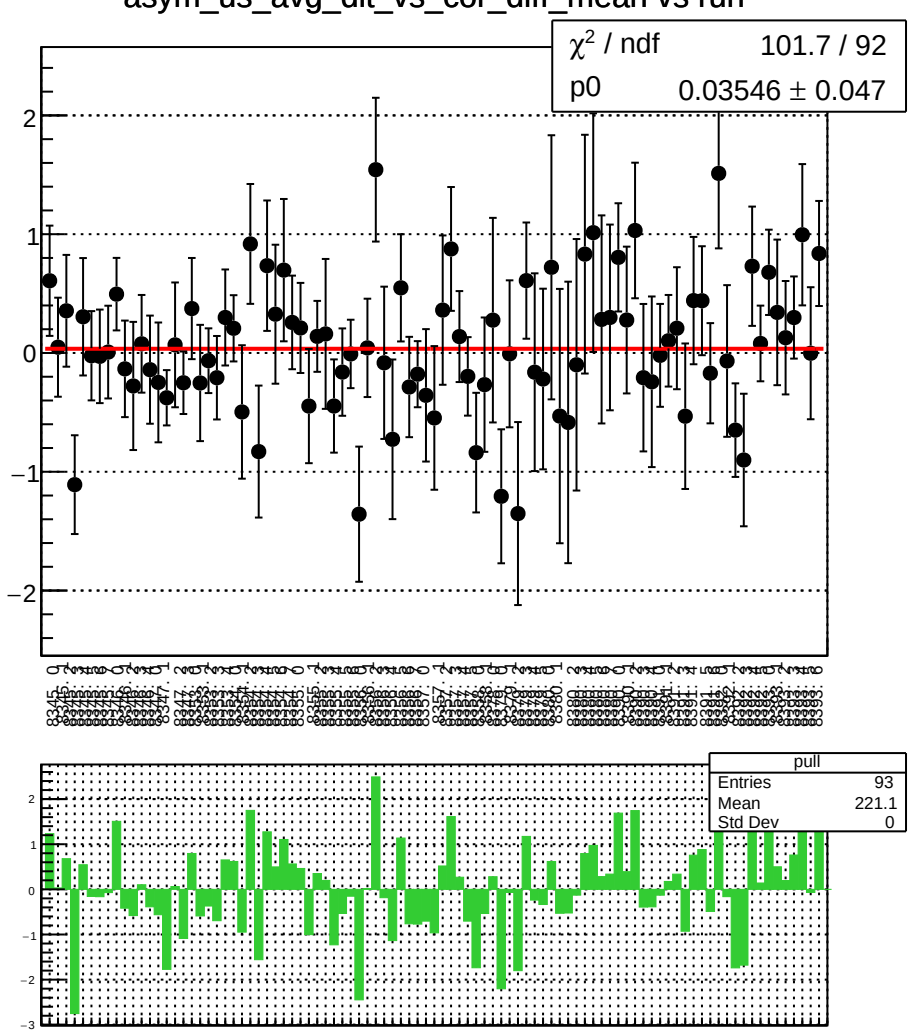

asym_us_avg_mean vs run
χ² / ndf 99.46 / 92
p0 −157.6 ± 1731
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −239.3
Std Dev 0
2
1
0
−1
−2
−3

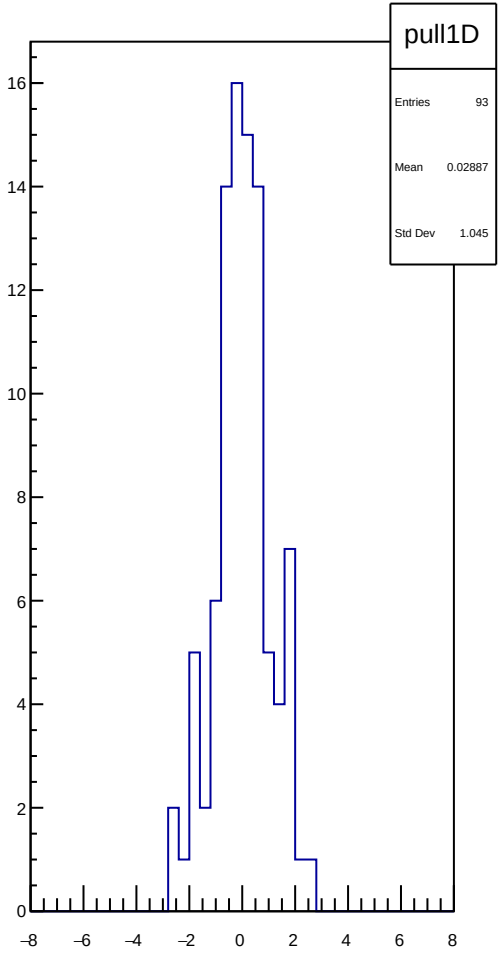

pull1D
Entries 93
Mean 0.01486
Std Dev 1.034
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

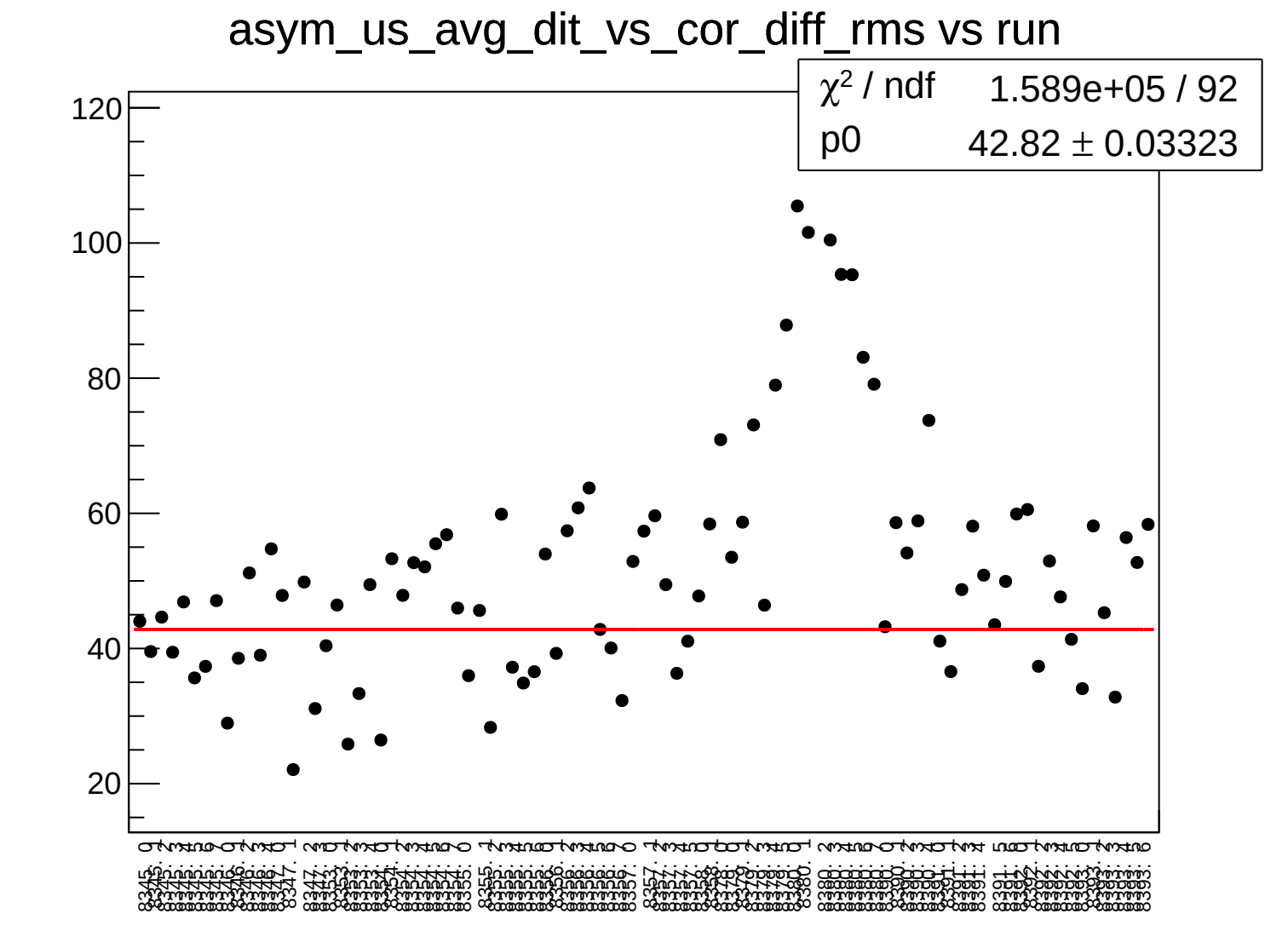

asym_us_avg_rms vs run
χ² / ndf 7324 / 92
p0 1648 ± 1.224
2000
1900
1800
1700
1600
1500

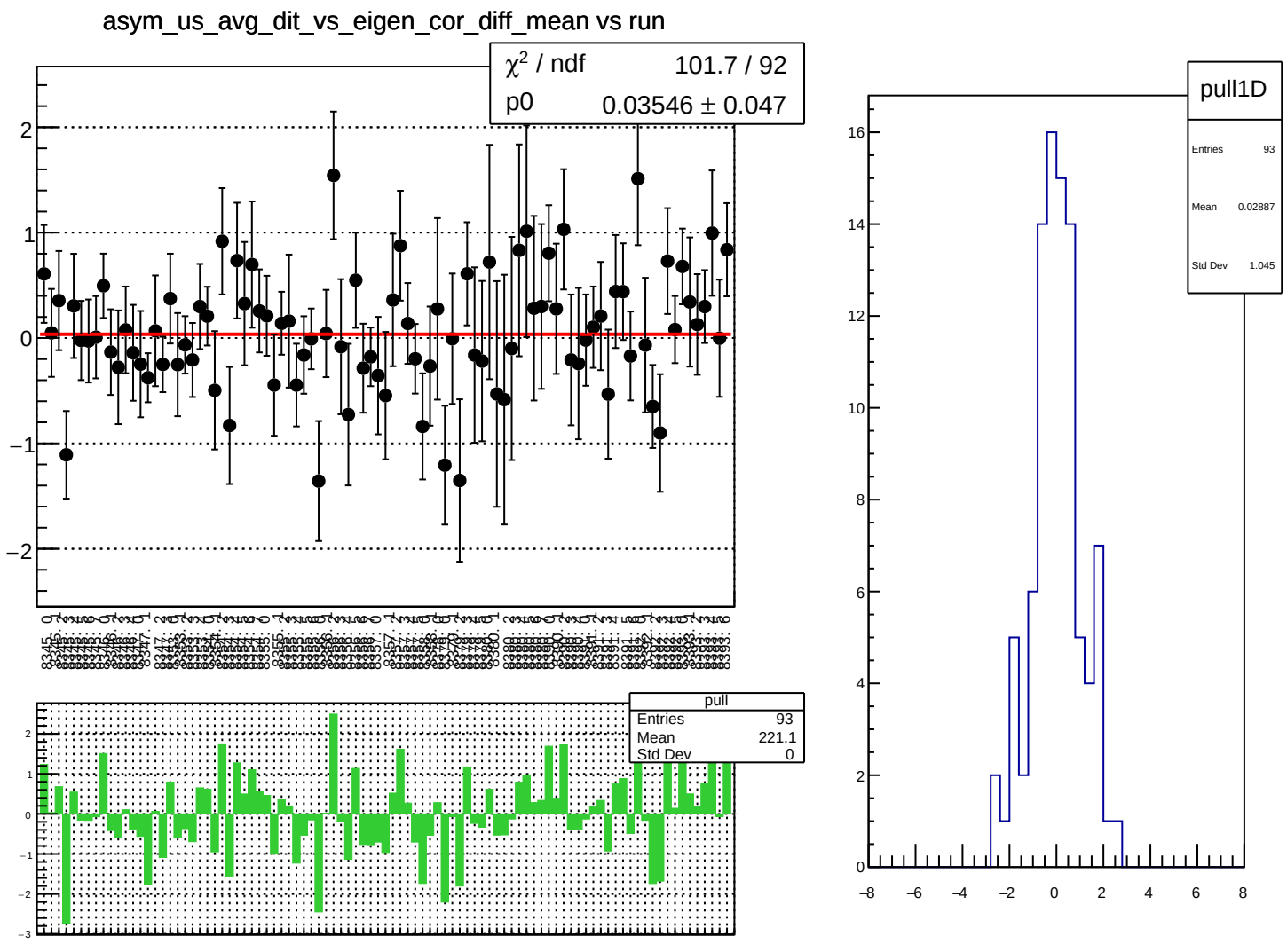

asym_us_avg_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 114.1 / 92
p0 1.079e−13 ± 1.592e−13
pull
Entries 93
Mean 38.46
Std Dev 34.35
pull1D
Entries 93
Mean −0.09171
Std Dev 1.104

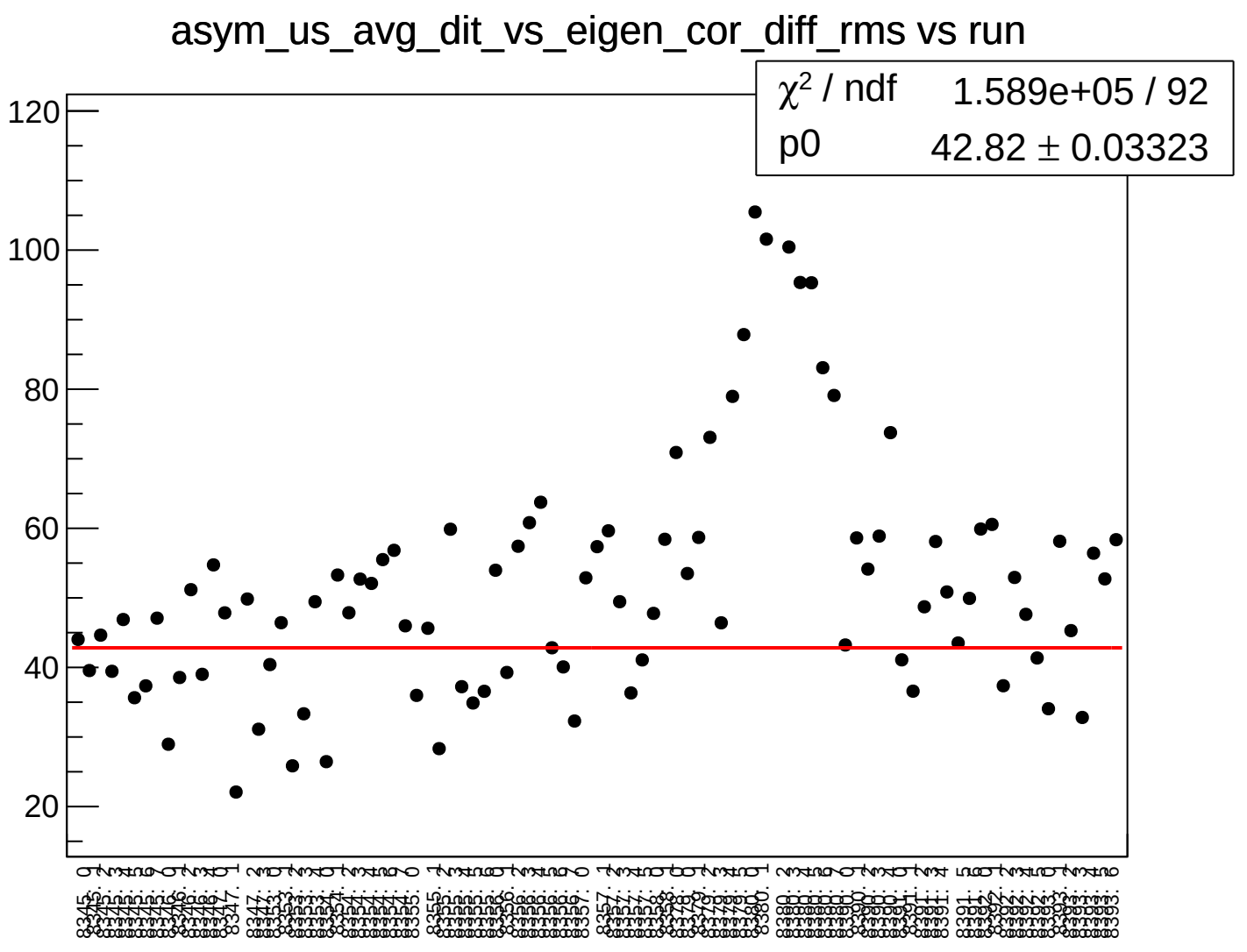

asym_us_avg_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.725e+05 / 92
p0 1.205e−10 ± 1.126e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

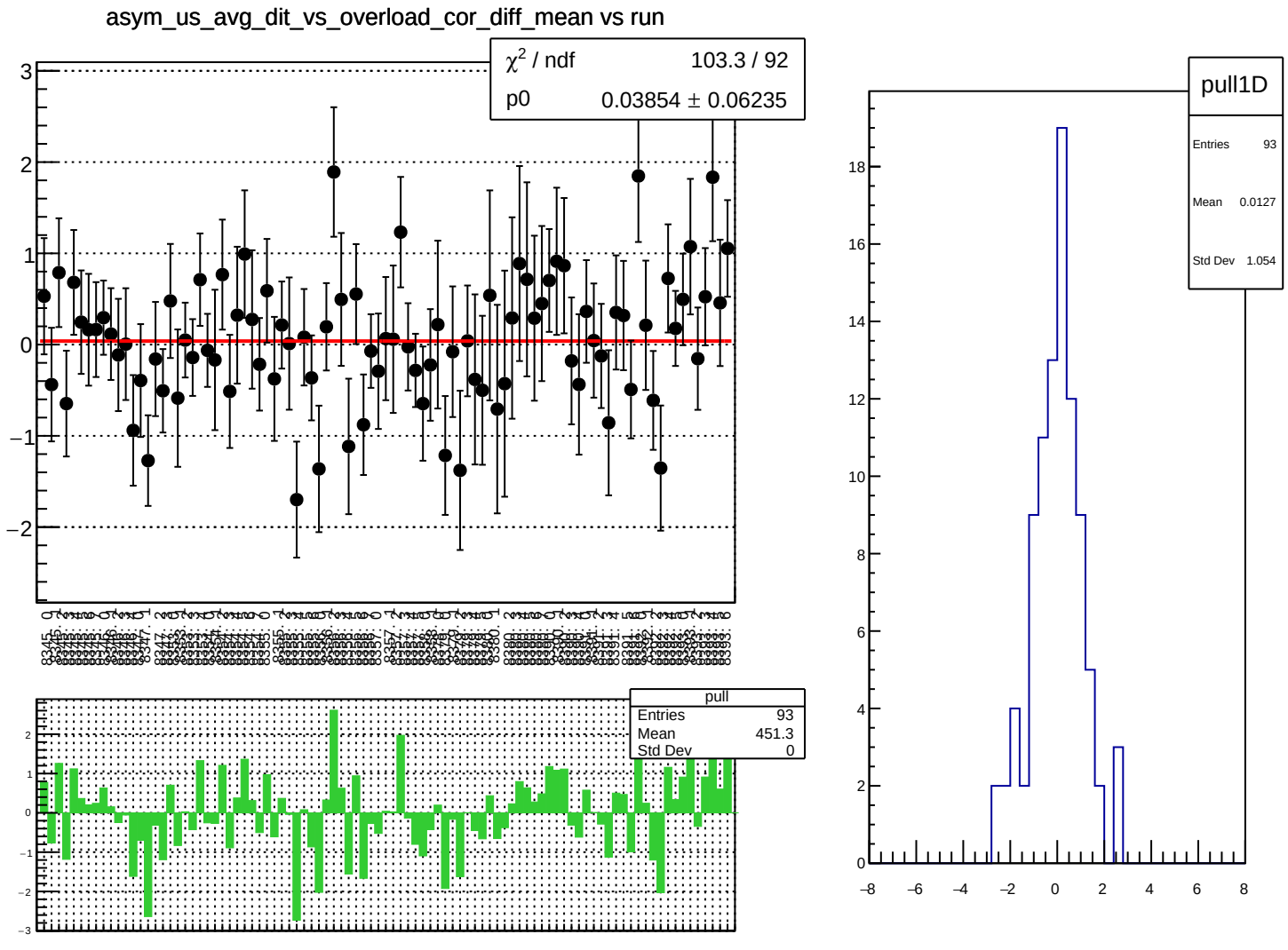

asym_us_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 101.7 / 92
p0 0.03546 ± 0.047
pull
Entries 93
Mean 221.1
Std Dev 0

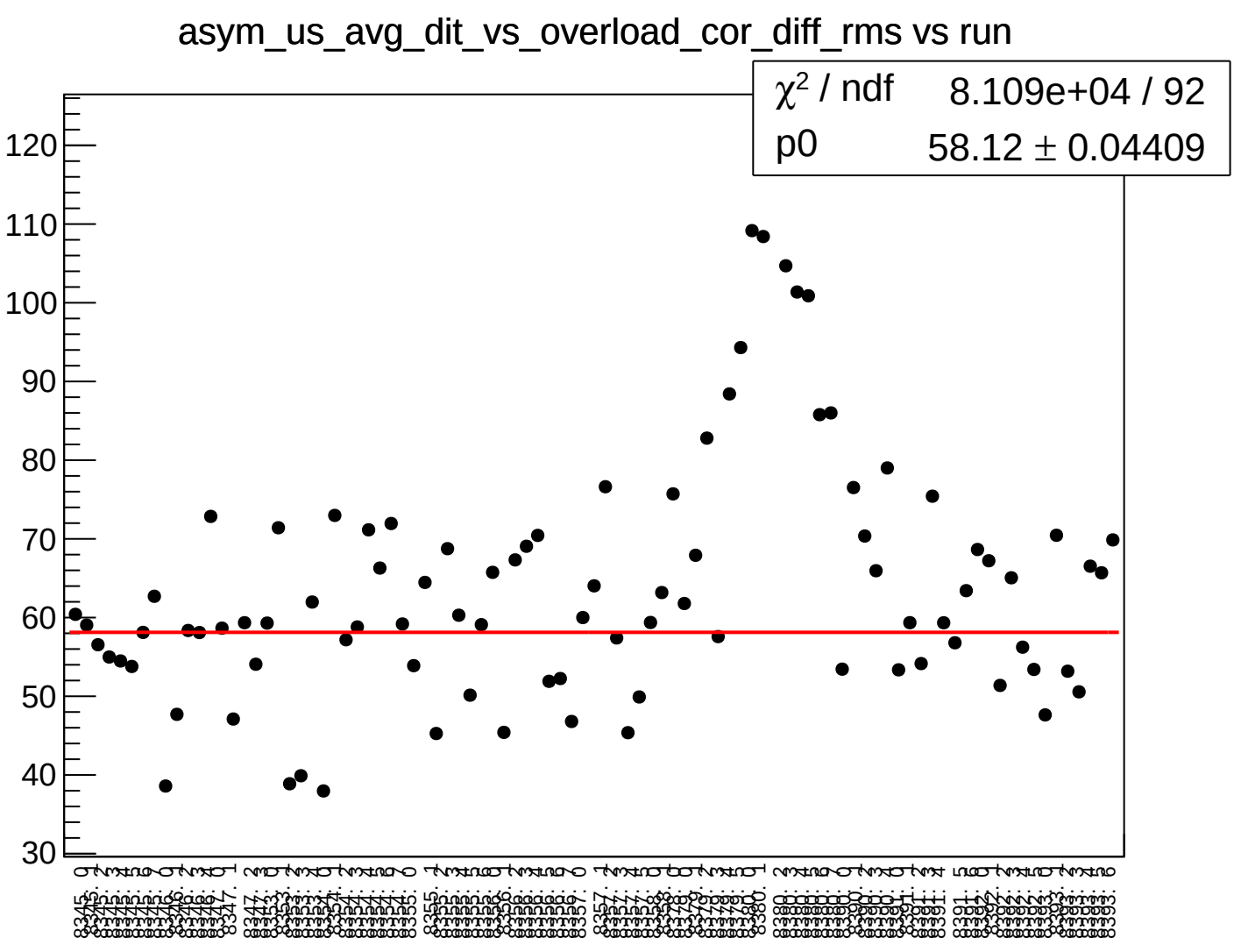

pull1D
Entries 93
Mean 0.02887
Std Dev 1.045

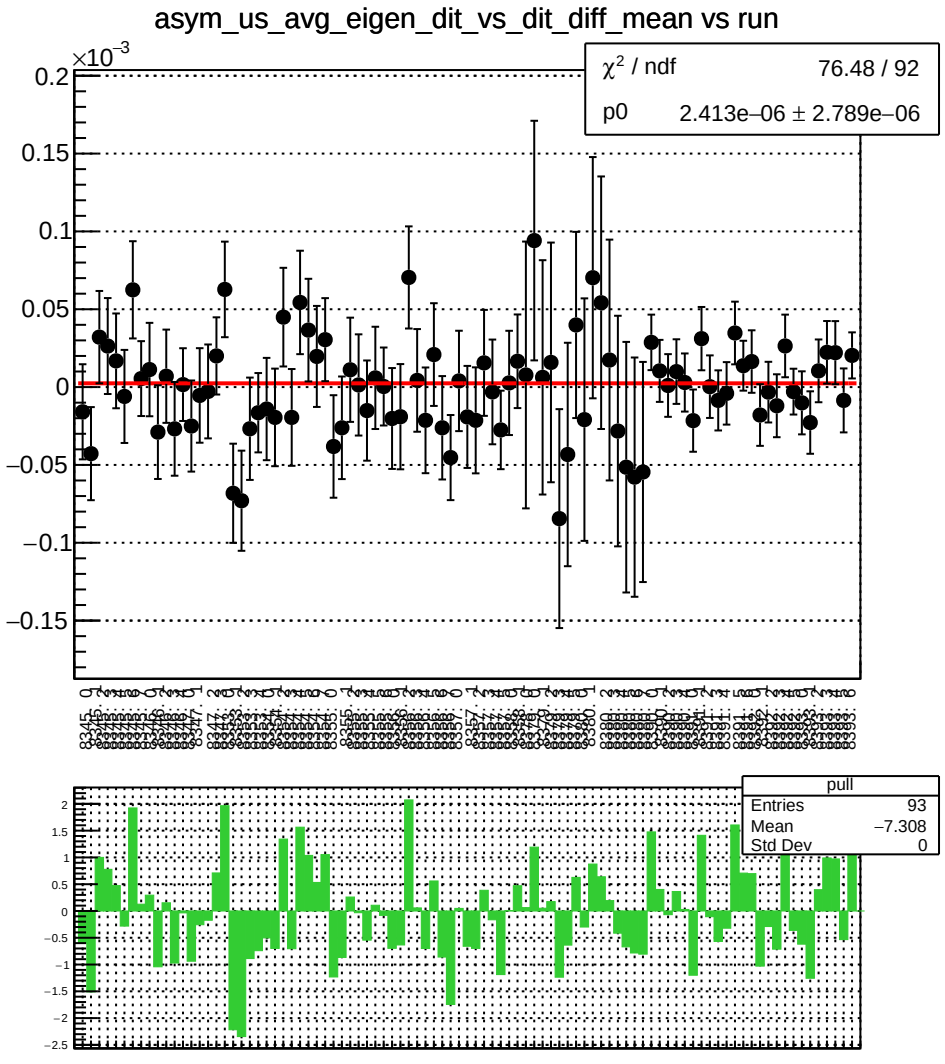

asym_us_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.589e+05 / 92
p0 42.82 ± 0.03323
120
100
80
60
40
20

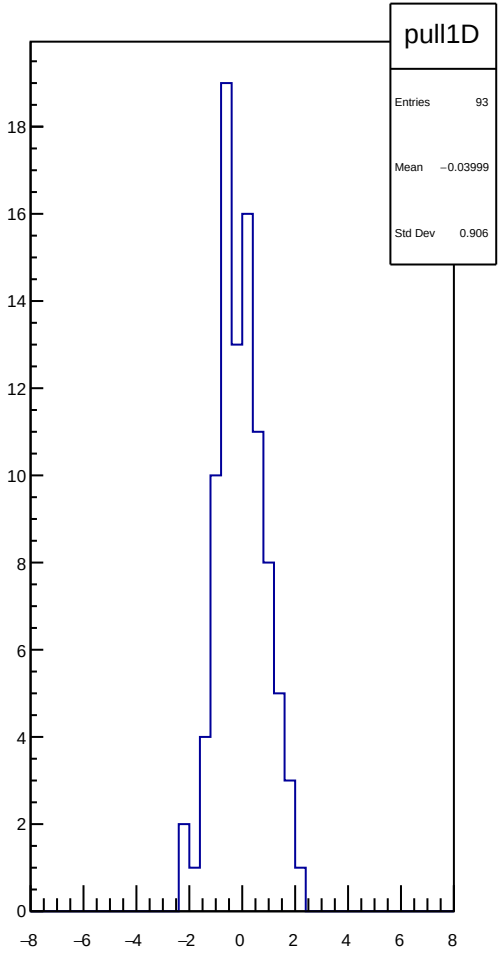

asym_us_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.7 / 92
p0 0.03546 ± 0.047
pull
Entries 93
Mean 221.1
Std Dev 0
pull1D
Entries 93
Mean 0.02887
Std Dev 1.045

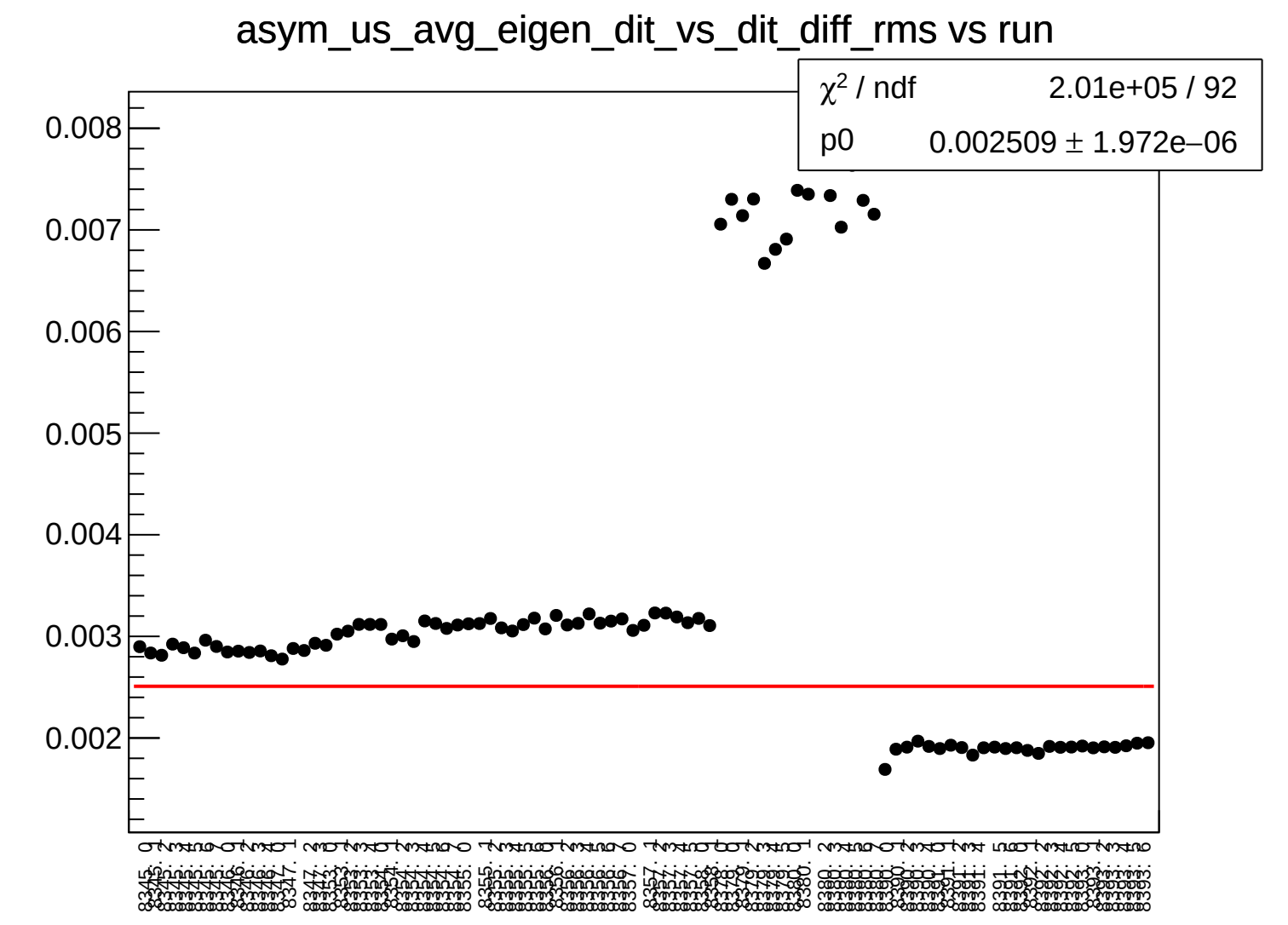

asym_us_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.589e+05 / 92
p0 42.82 ± 0.03323
120
100
80
60
40
20

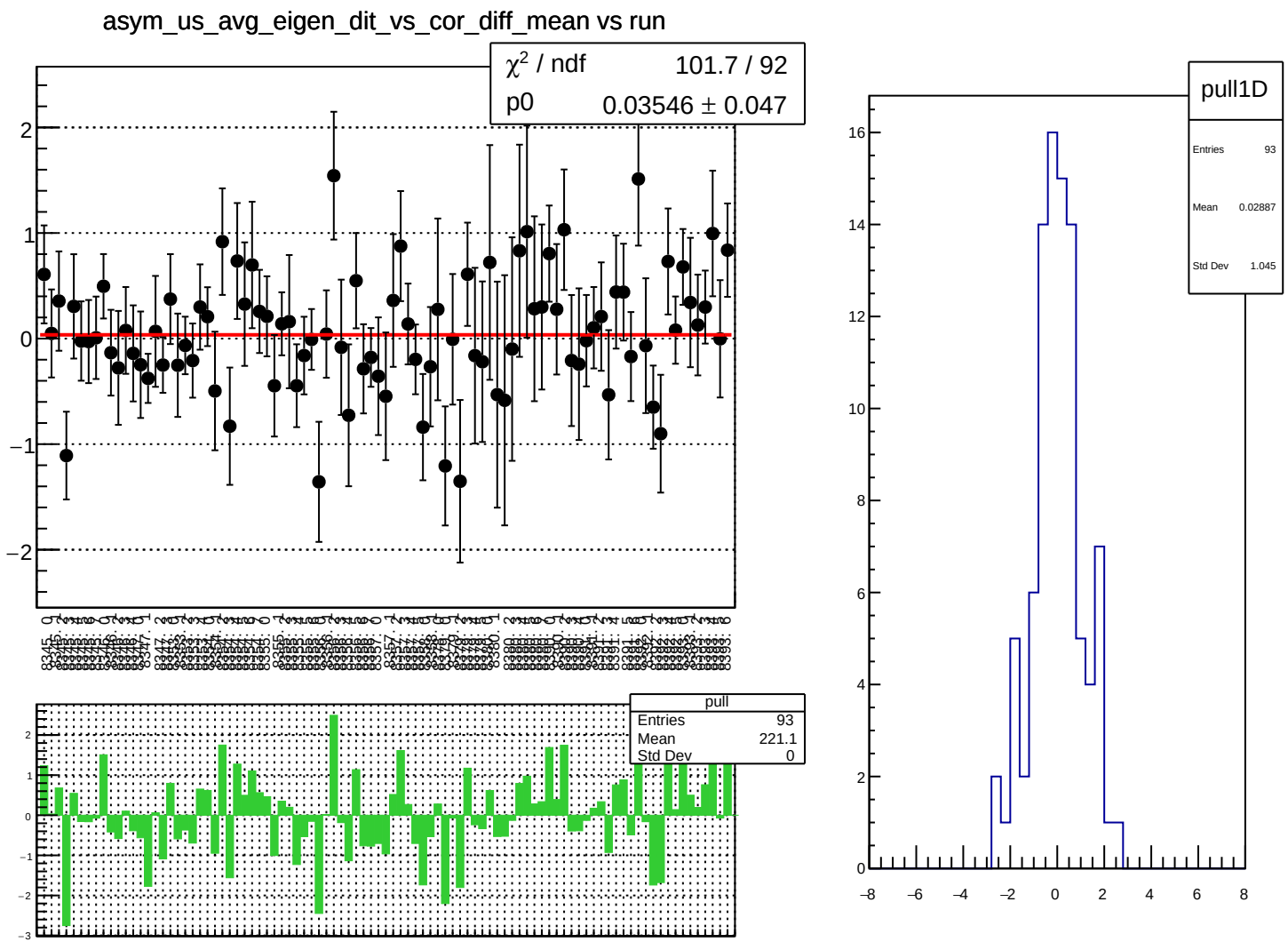

asym_us_avg_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 103.3 / 92
p0 0.03854 ± 0.06235
pull
Entries 93
Mean 451.3
Std Dev 0
pull1D
Entries 93
Mean 0.0127
Std Dev 1.054

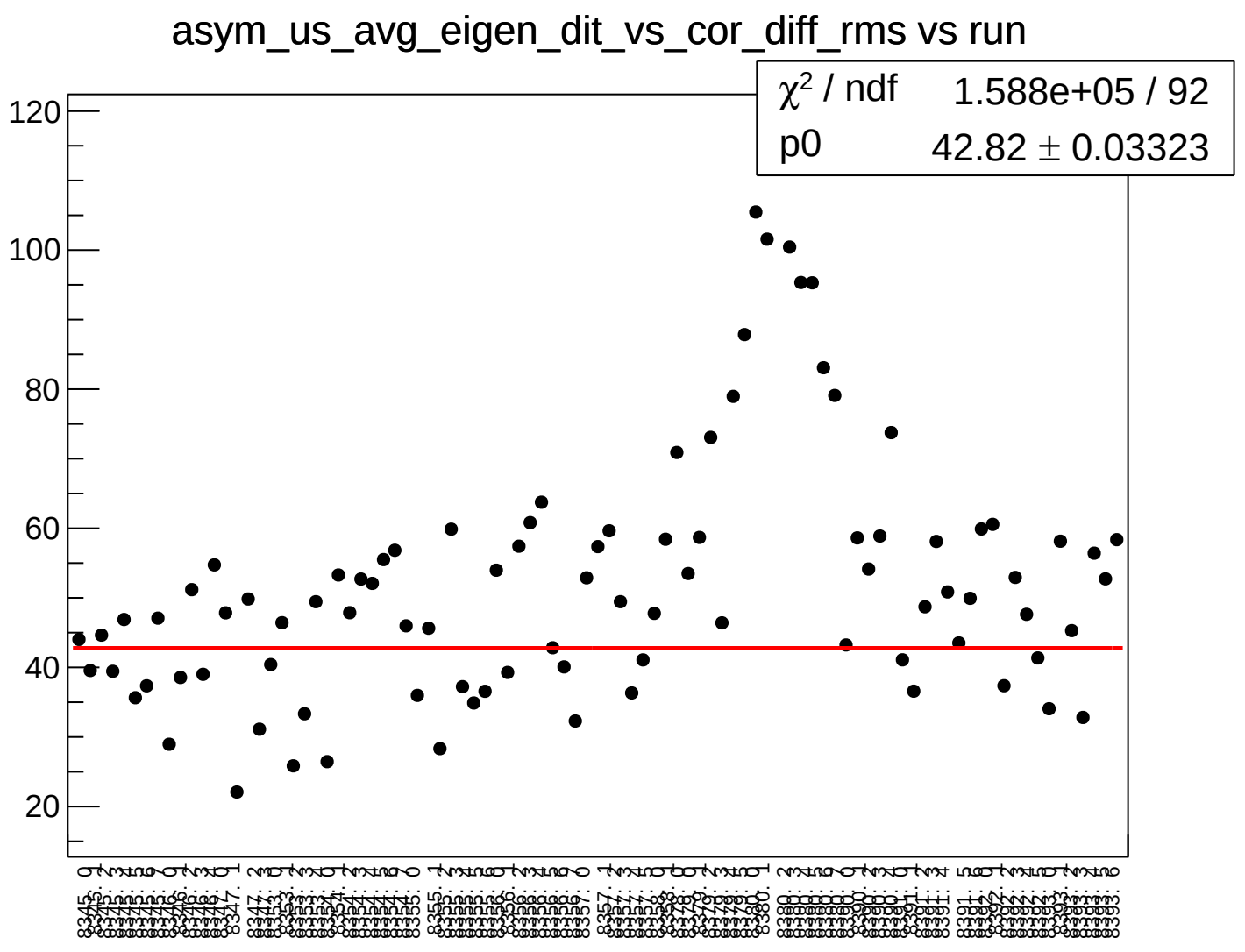

asym_us_avg_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 8.109e+04 / 92
p0 58.12 ± 0.04409
120
110
100
90
80
70
60
50
40
30

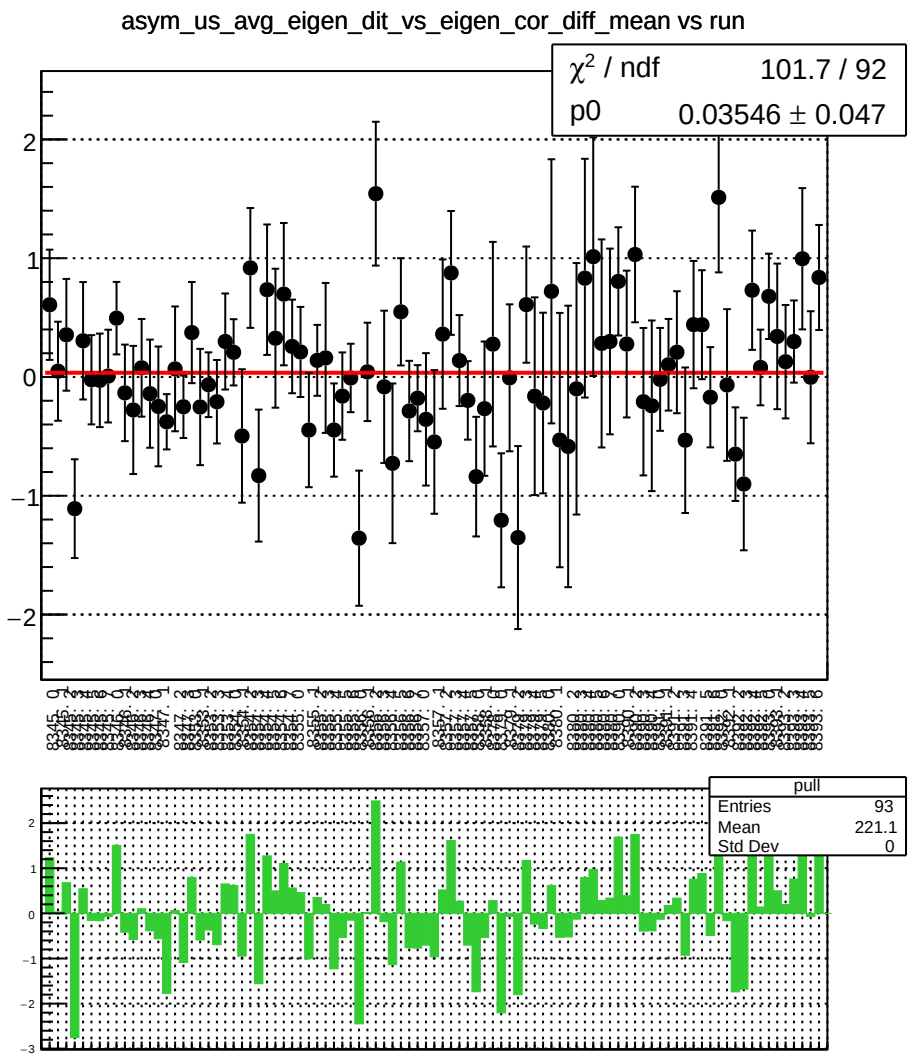

asym_us_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.48 / 92
p0 2.413e−06 ± 2.789e−06
pull
Entries 93
Mean −7.308
Std Dev 0

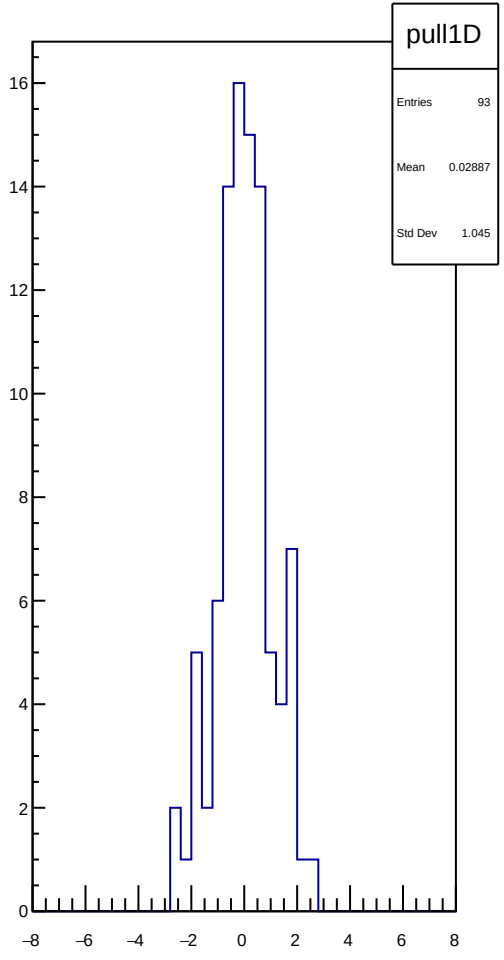

pull1D
Entries 93
Mean −0.03999
Std Dev 0.906

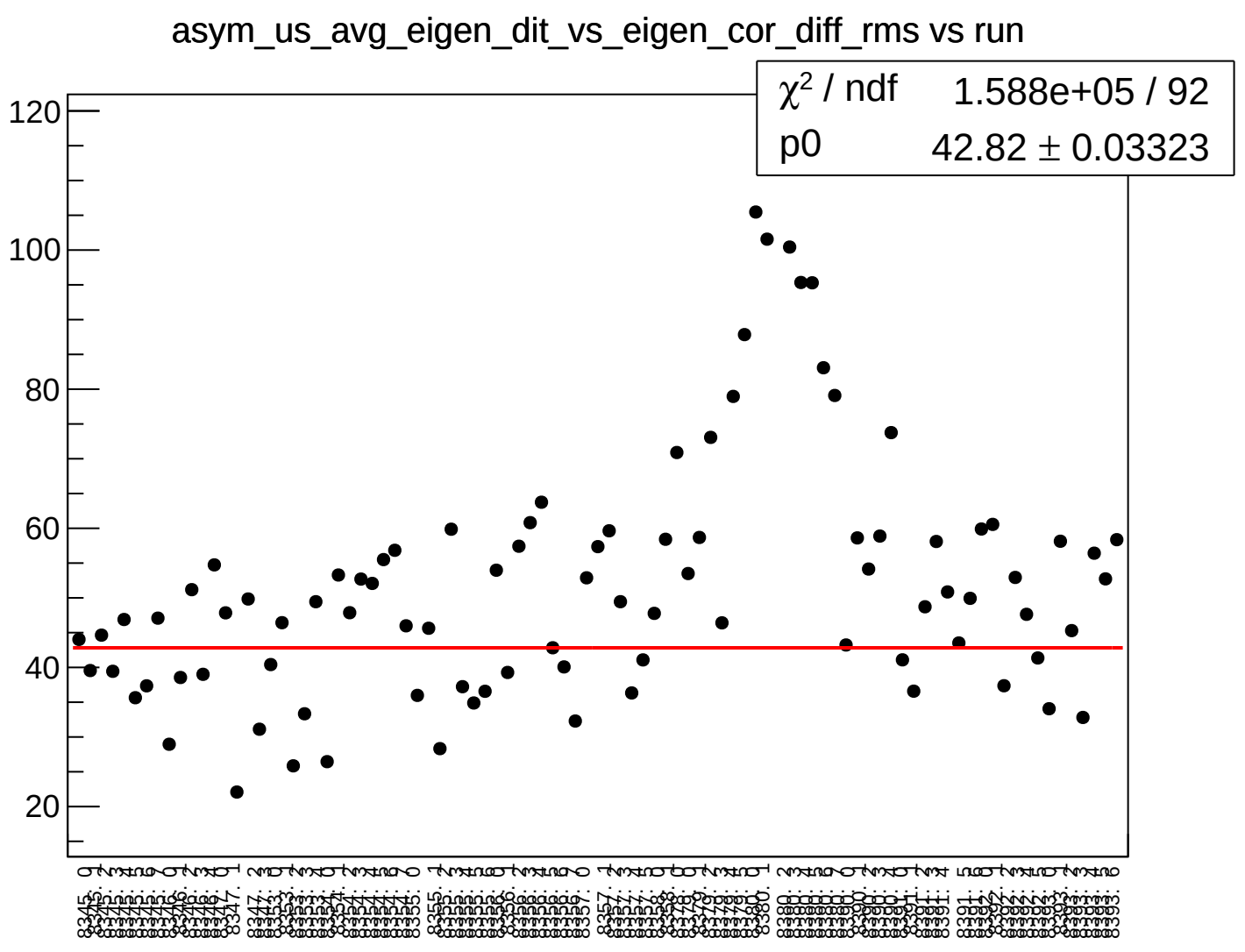

asym_us_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.01e+05 / 92
p0 0.002509 ± 1.972e−06
0.008
0.007
0.006
0.005
0.004
0.003
0.002

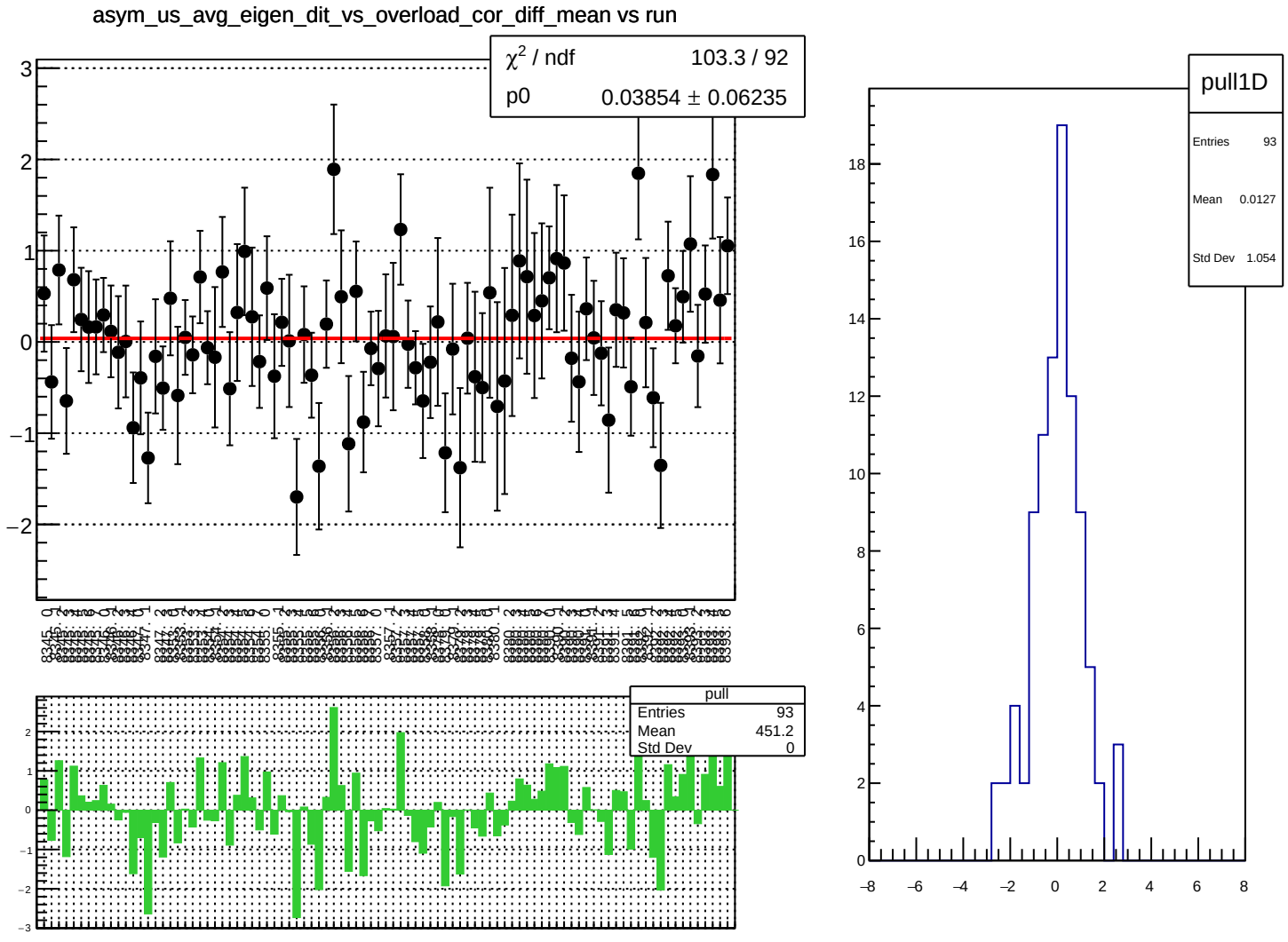

asym_us_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 101.7 / 92
p0 0.03546 ± 0.047
pull
Entries 93
Mean 221.1
Std Dev 0
pull1D
Entries 93
Mean 0.02887
Std Dev 1.045

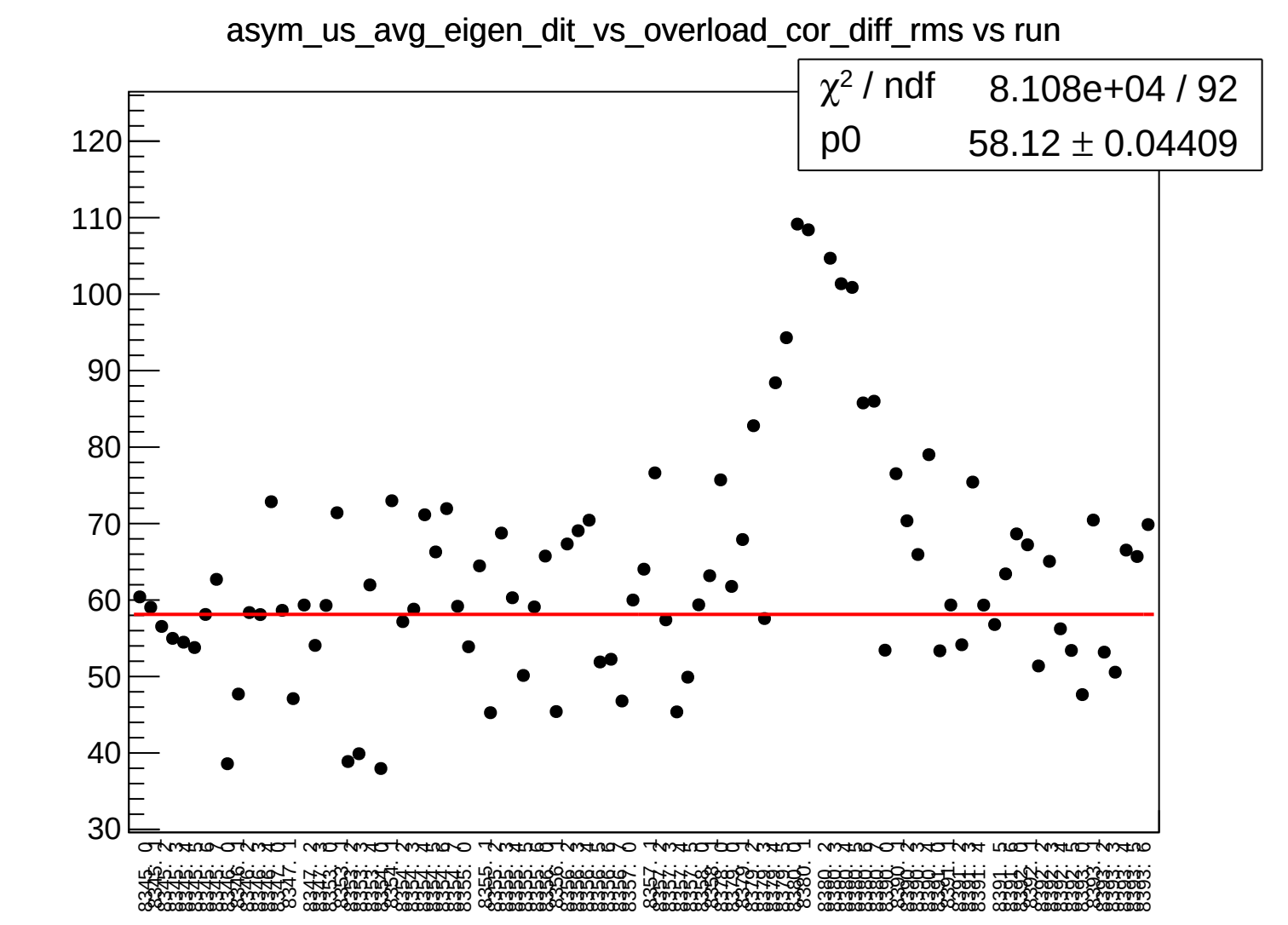

asym_us_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.588e+05 / 92
p0 42.82 ± 0.03323
120
100
80
60
40
20

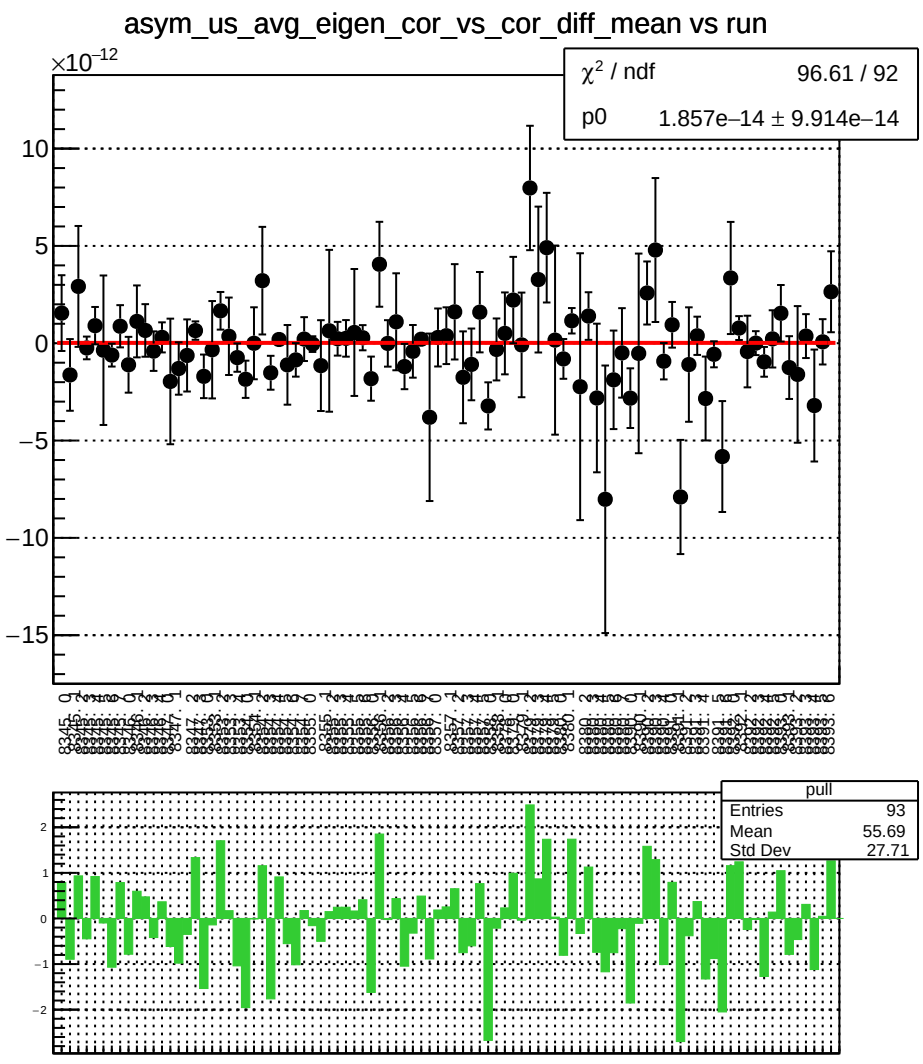

asym_us_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.7 / 92
p0 0.03546 ± 0.047
pull
Entries 93
Mean 221.1
Std Dev 0

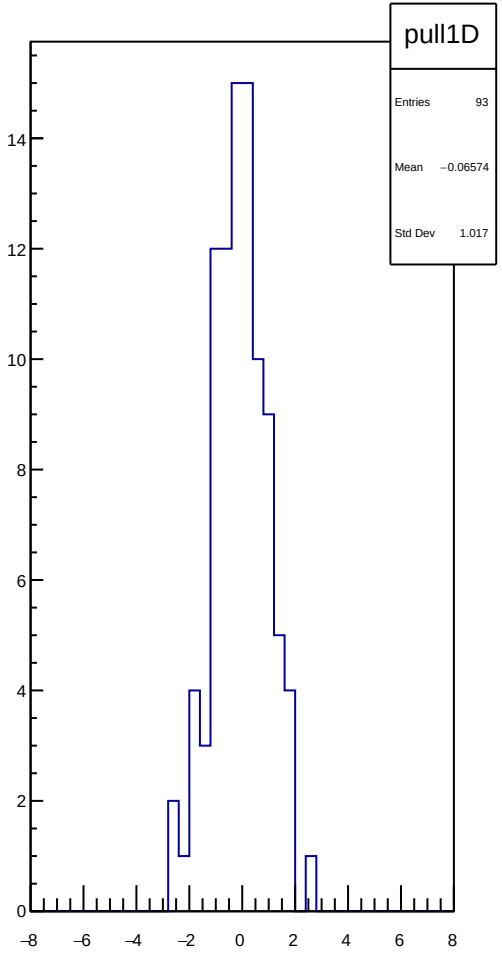

pull1D
Entries 93
Mean 0.02887
Std Dev 1.045

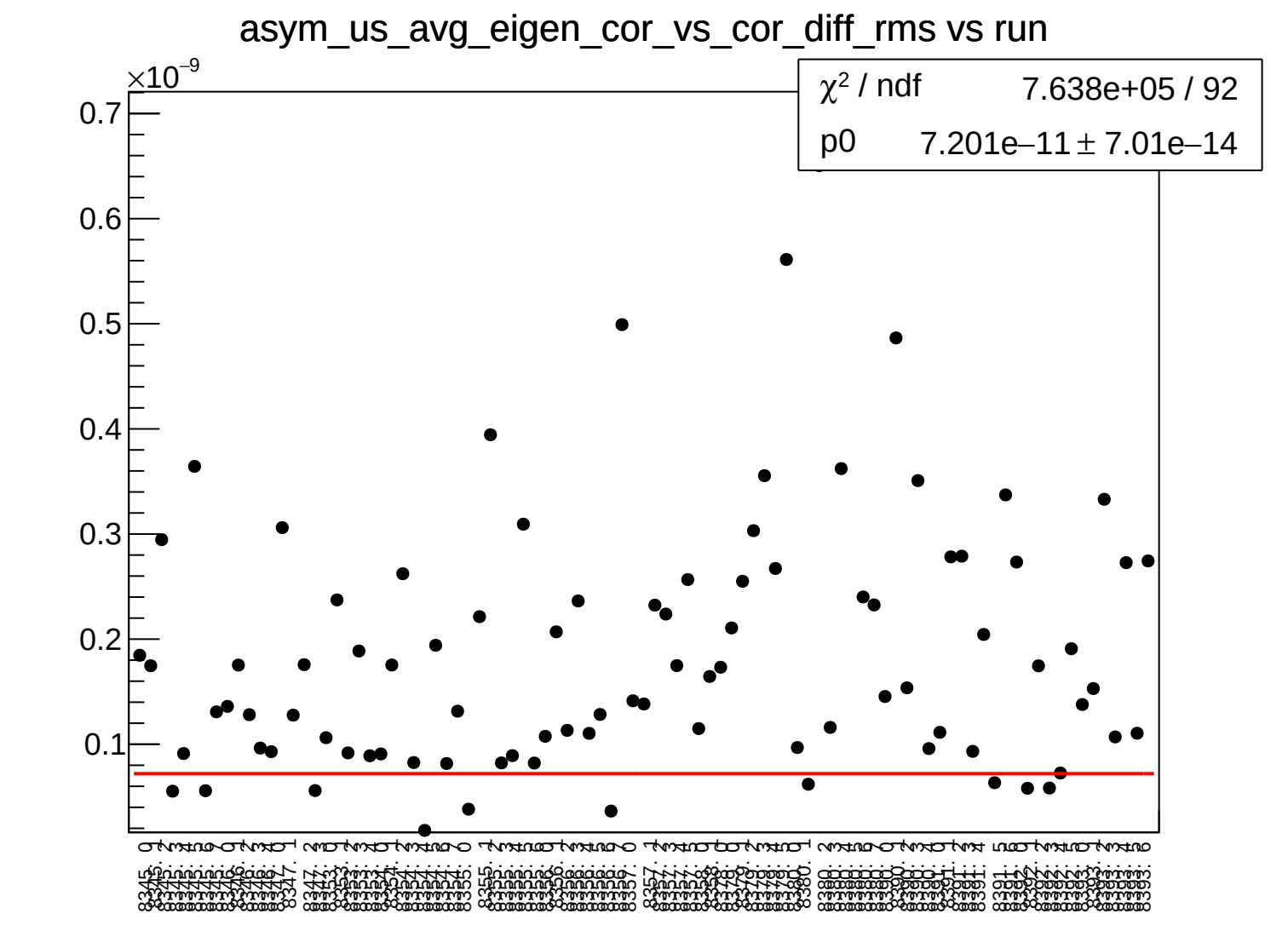

asym_us_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.588e+05 / 92
p0 42.82 ± 0.03323
120
100
80
60
40
20

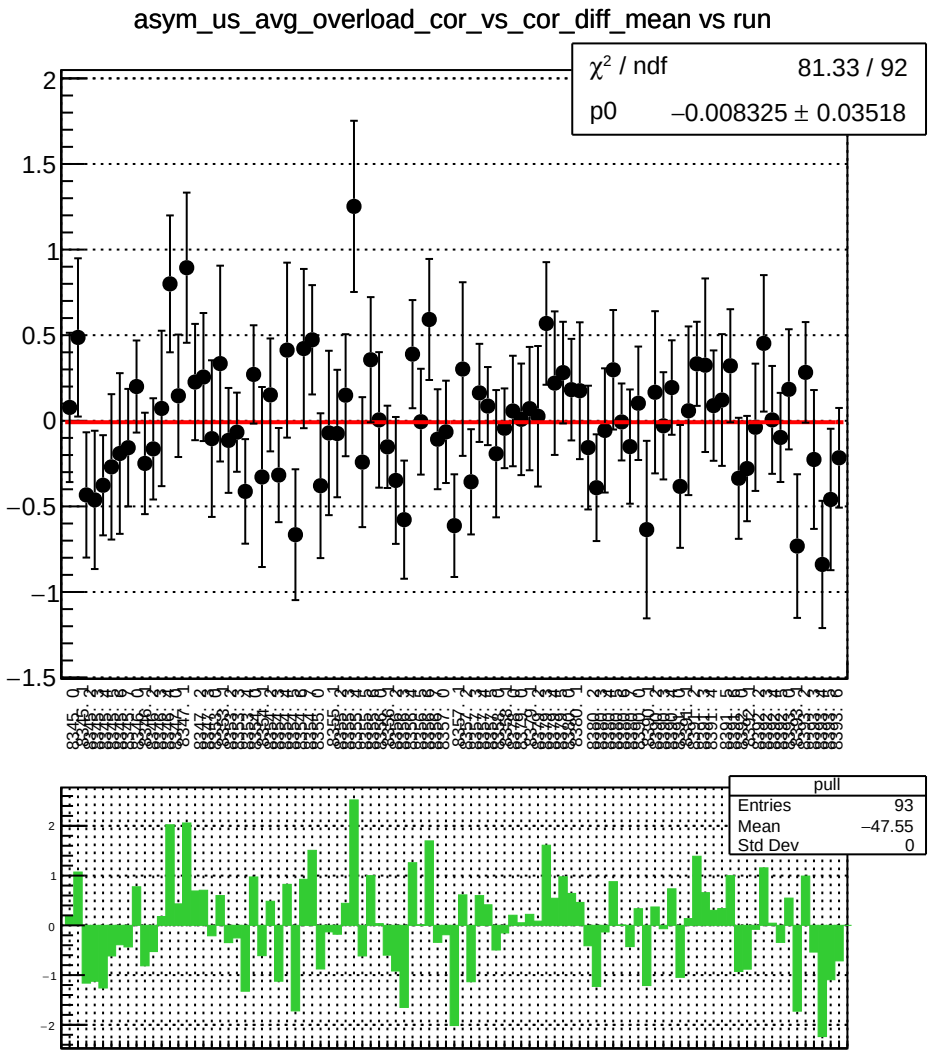

asym_us_avg_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 103.3 / 92
p0 0.03854 ± 0.06235
pull
Entries 93
Mean 451.2
Std Dev 0
pull1D
Entries 93
Mean 0.0127
Std Dev 1.054

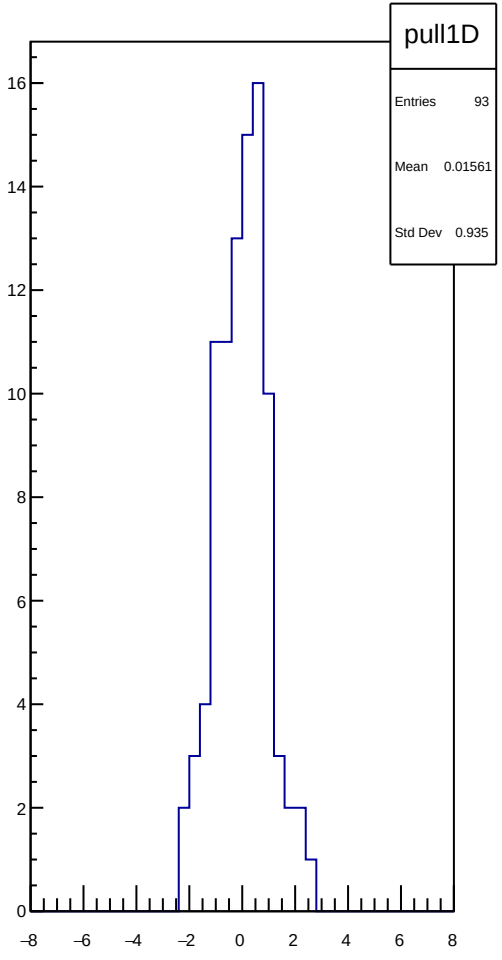

asym_us_avg_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 8.108e+04 / 92
p0 58.12 ± 0.04409
120
110
100
90
80
70
60
50
40
30

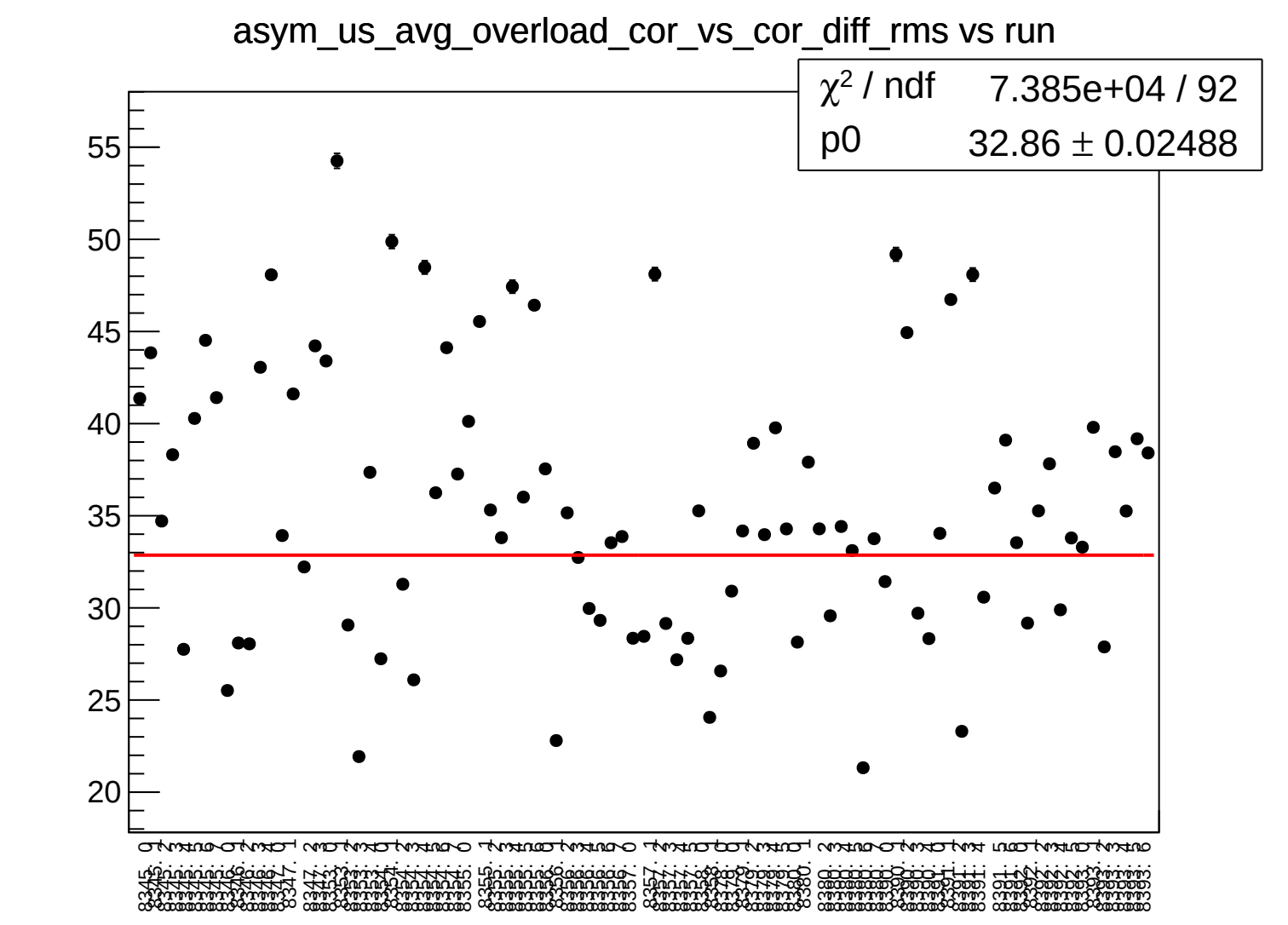

asym_us_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.61 / 92
p0 1.857e−14 ± 9.914e−14
10
5
0
−5
−10
−15
pull
Entries 93
Mean 55.69
Std Dev 27.71
2
1
0
−1
−2

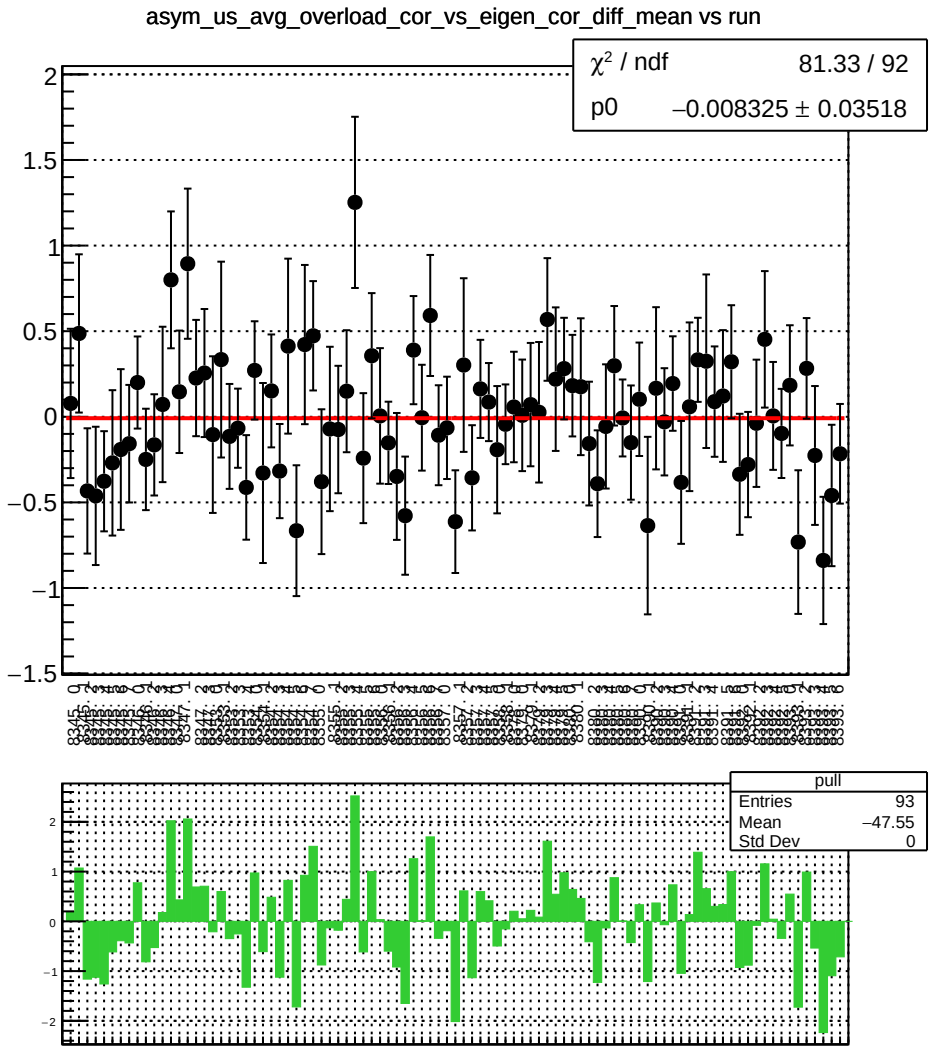

pull1D
Entries 93
Mean −0.06574
Std Dev 1.017
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

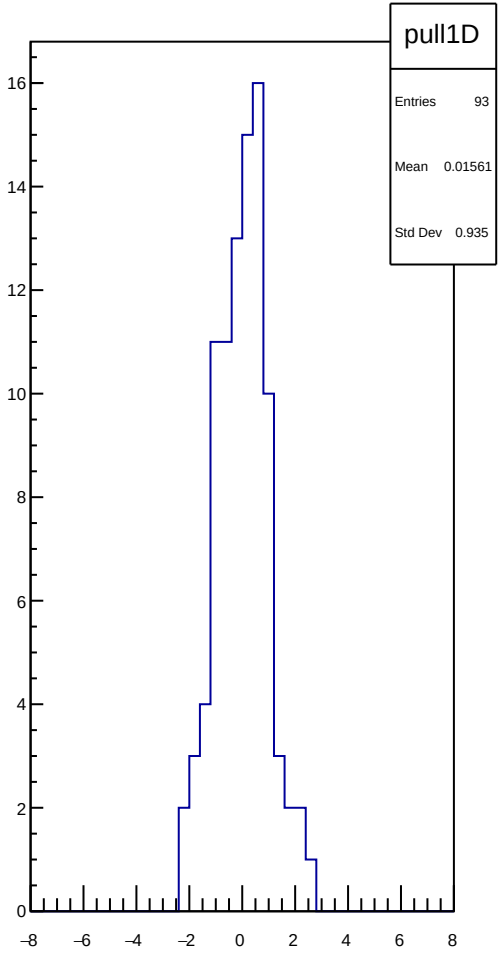

asym_us_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.638e+05 / 92
p0 7.201e−11 ± 7.01e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

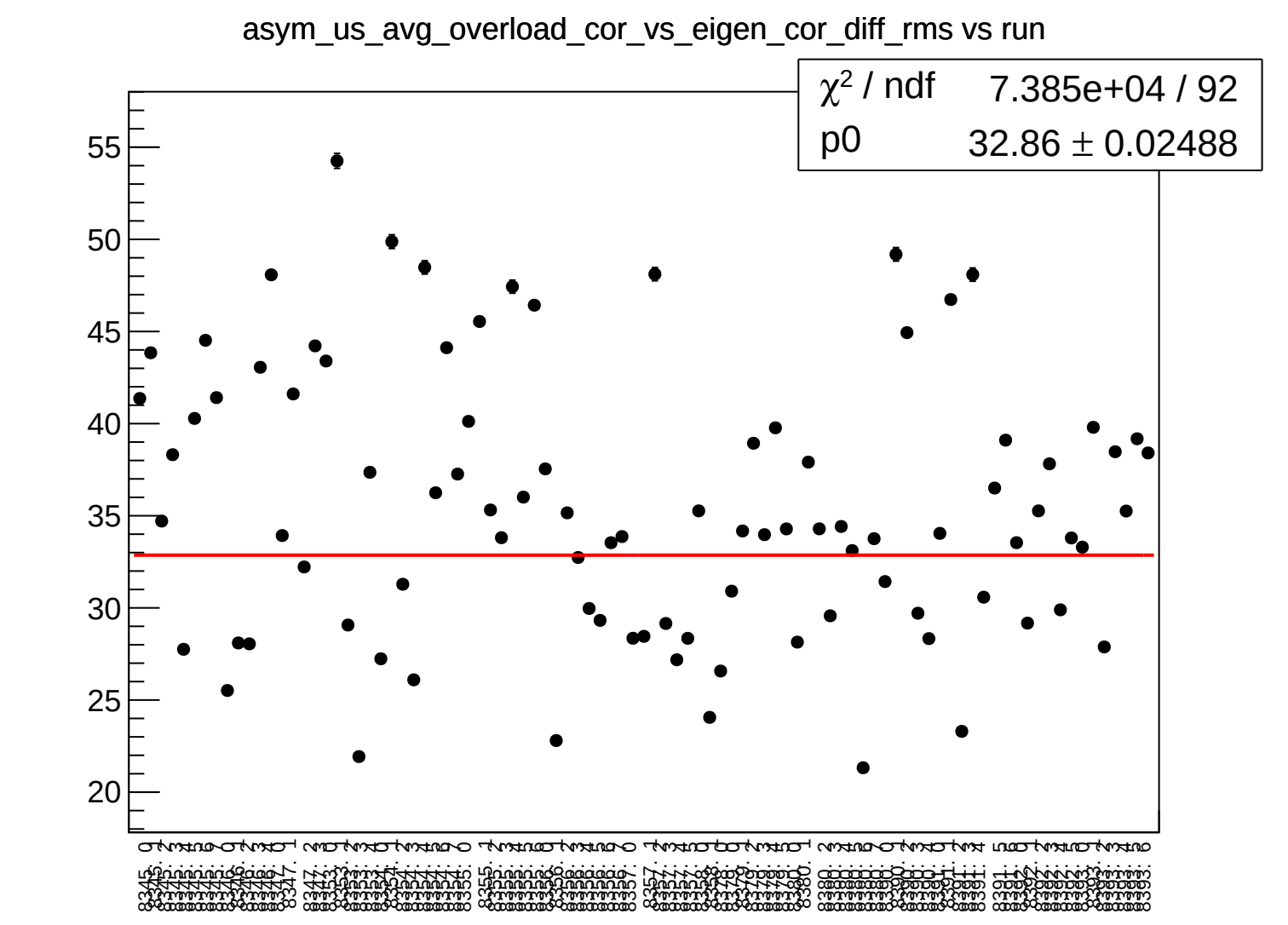

asym_us_avg_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 81.33 / 92
p0 −0.008325 ± 0.03518
pull
Entries 93
Mean −47.55
Std Dev 0

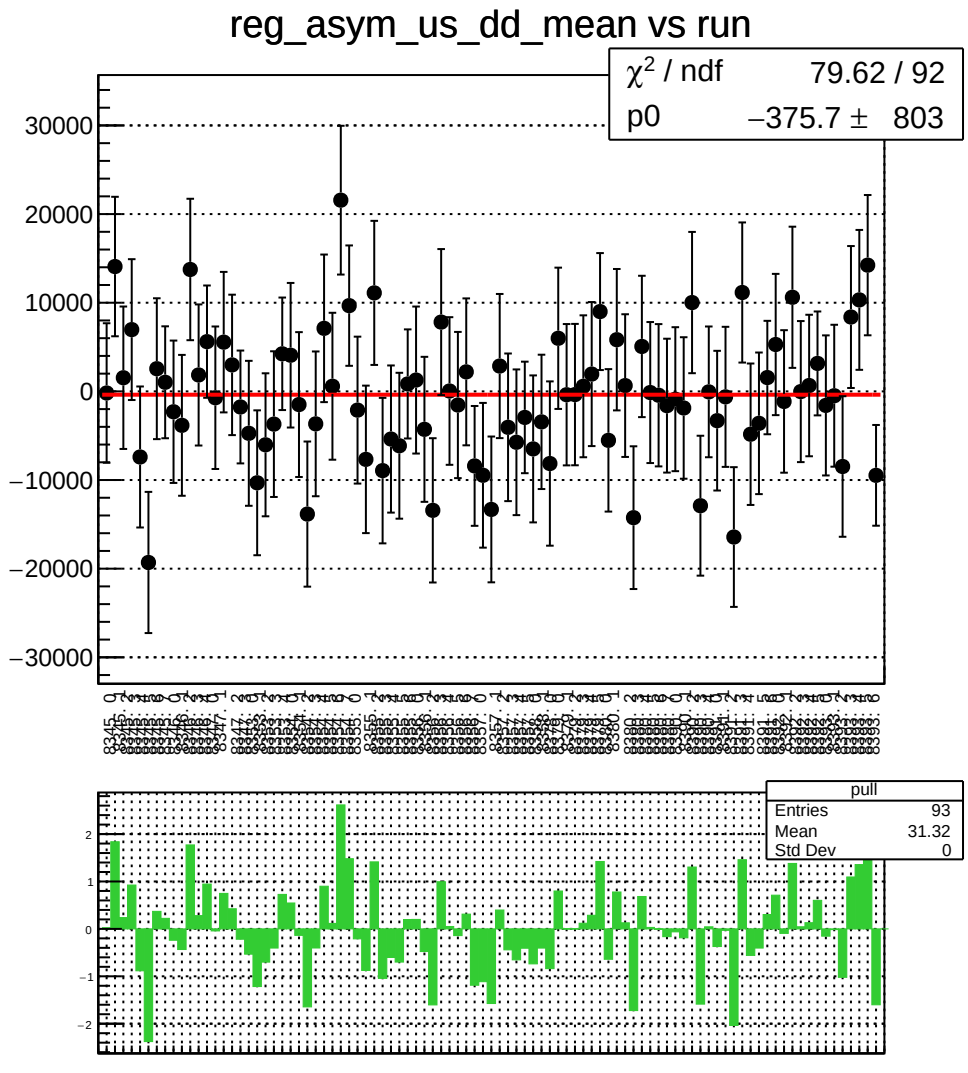

pull1D
Entries 93
Mean 0.01561
Std Dev 0.935

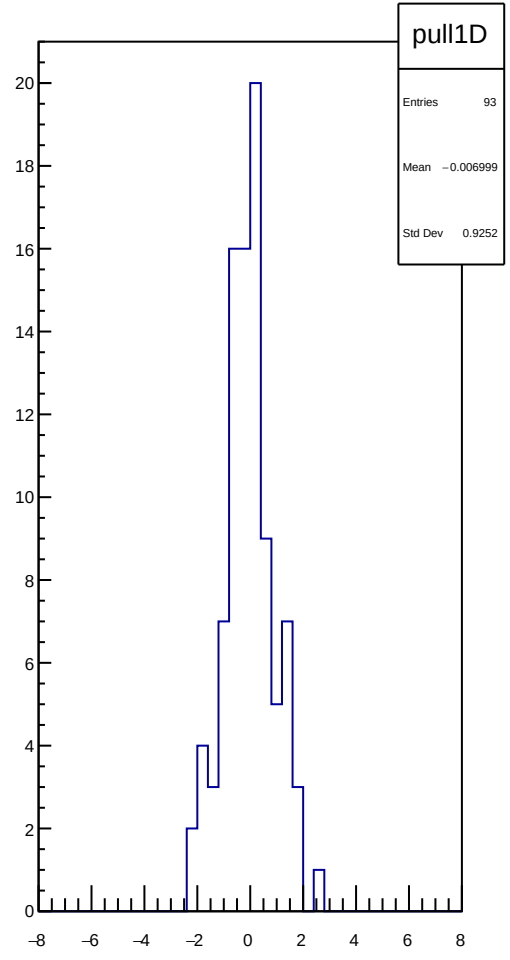

asym_us_avg_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 7.385e+04 / 92
p0 32.86 ± 0.02488
55
50
45
40
35
30
25
20

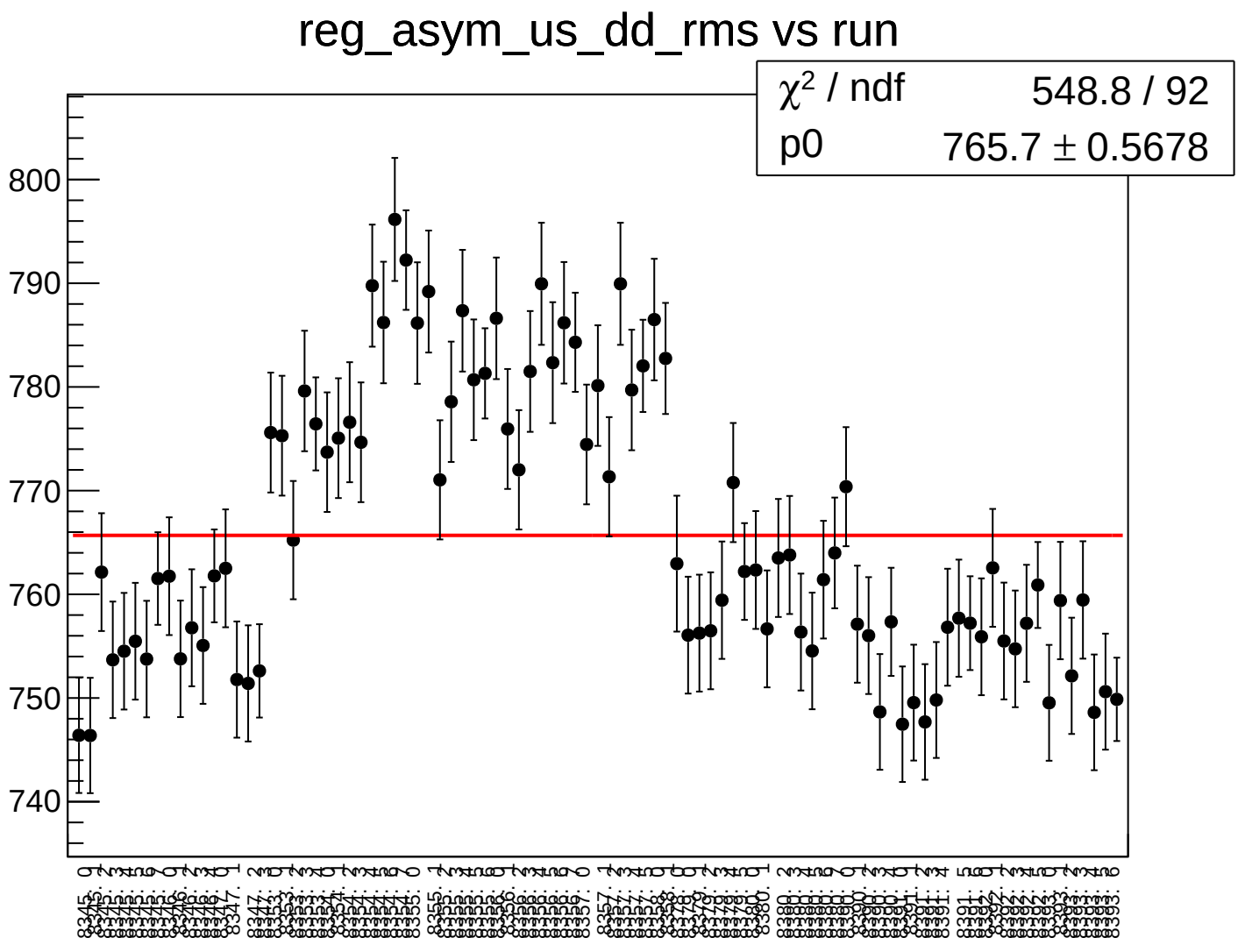

asym_us_avg_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.33 / 92
p0 −0.008325 ± 0.03518
pull
Entries 93
Mean −47.55
Std Dev 0

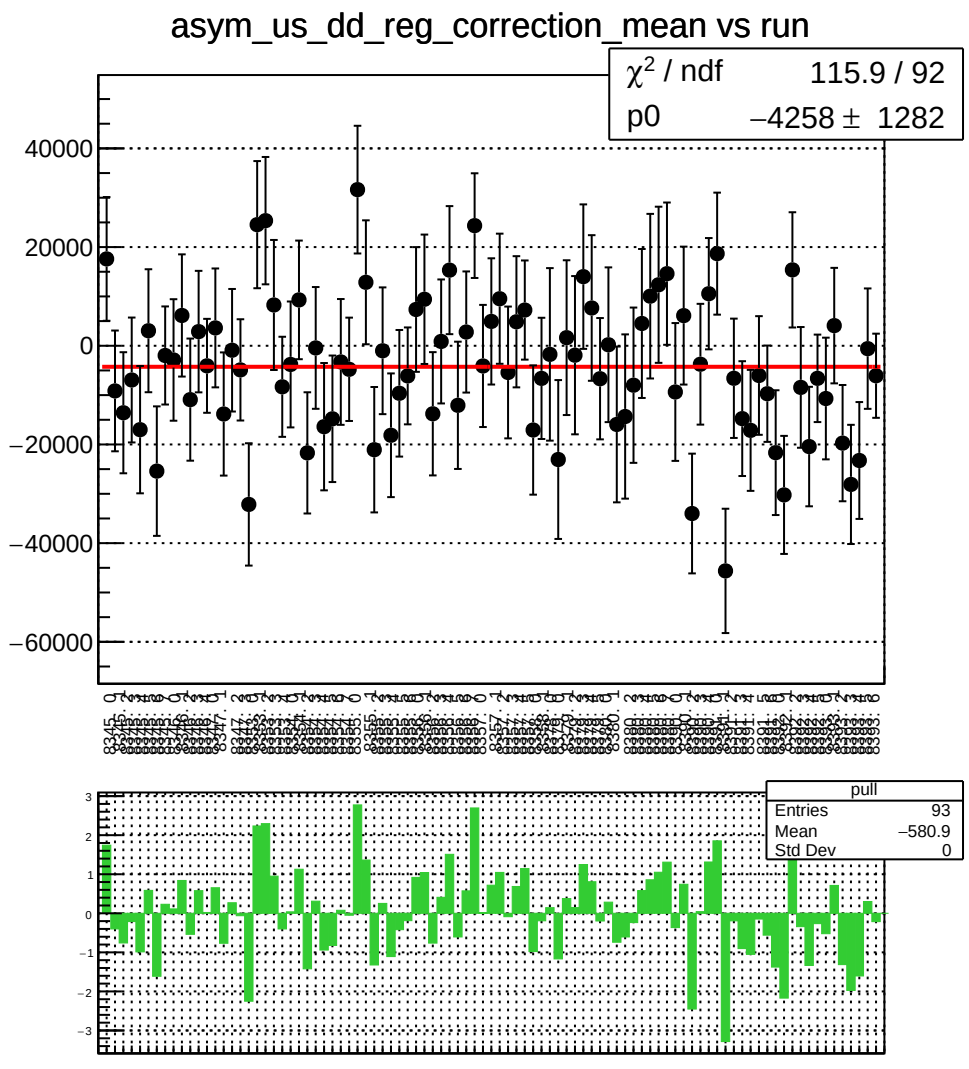

pull1D
Entries 93
Mean 0.01561
Std Dev 0.935

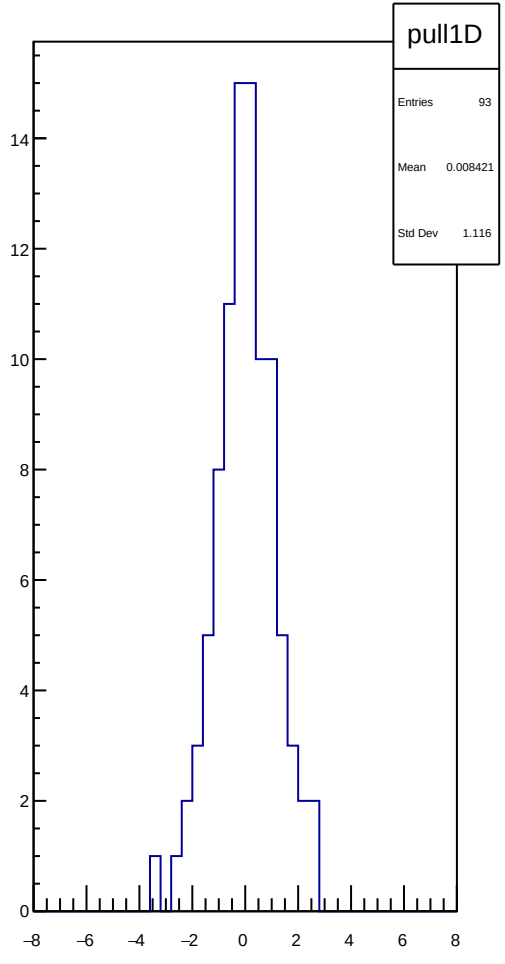

asym_us_avg_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.385e+04 / 92
p0 32.86 ± 0.02488
55
50
45
40
35
30
25
20

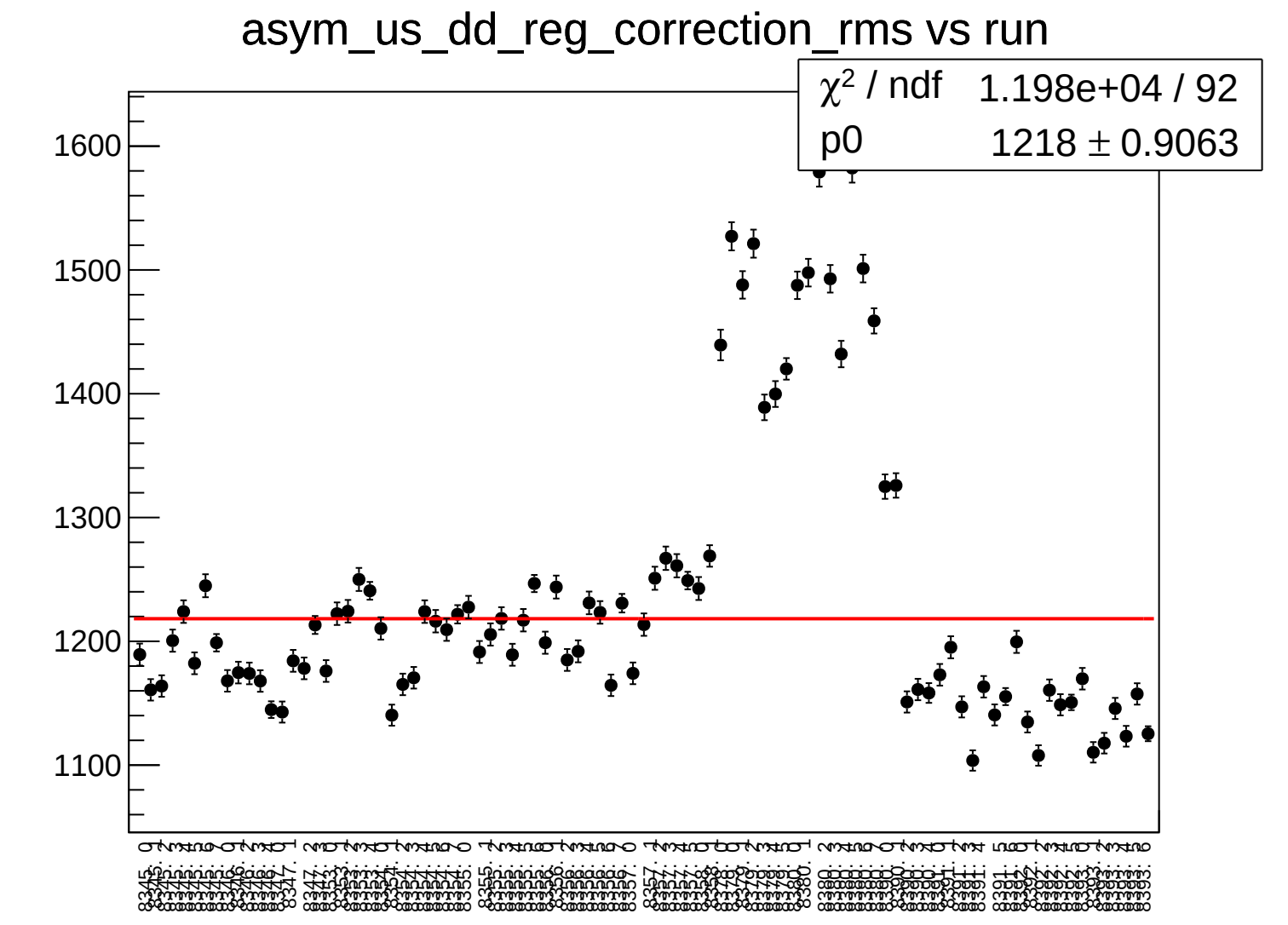

reg_asym_us_dd_mean vs run
χ² / ndf 79.62 / 92
p0 −375.7 ± 803
pull
Entries 93
Mean 31.32
Std Dev 0

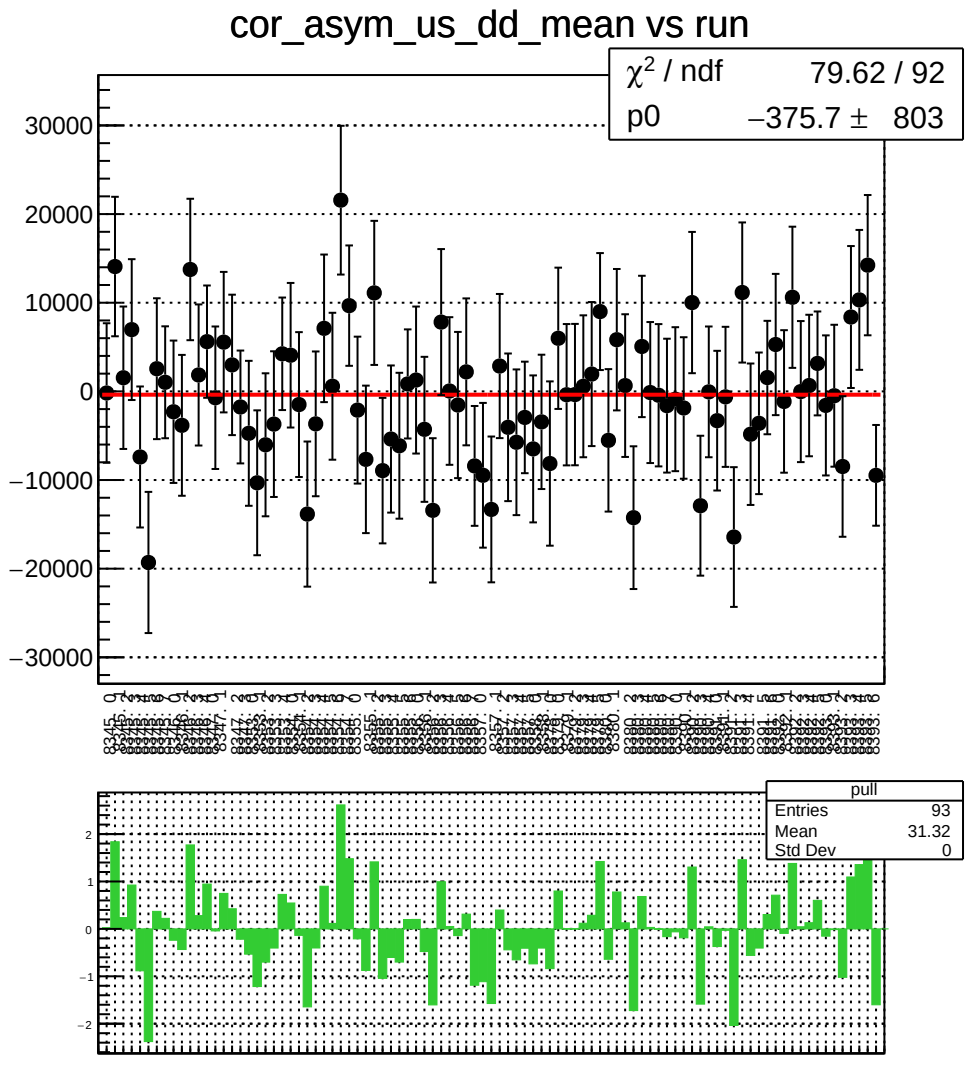

pull1D
Entries 93
Mean −0.006999
Std Dev 0.9252

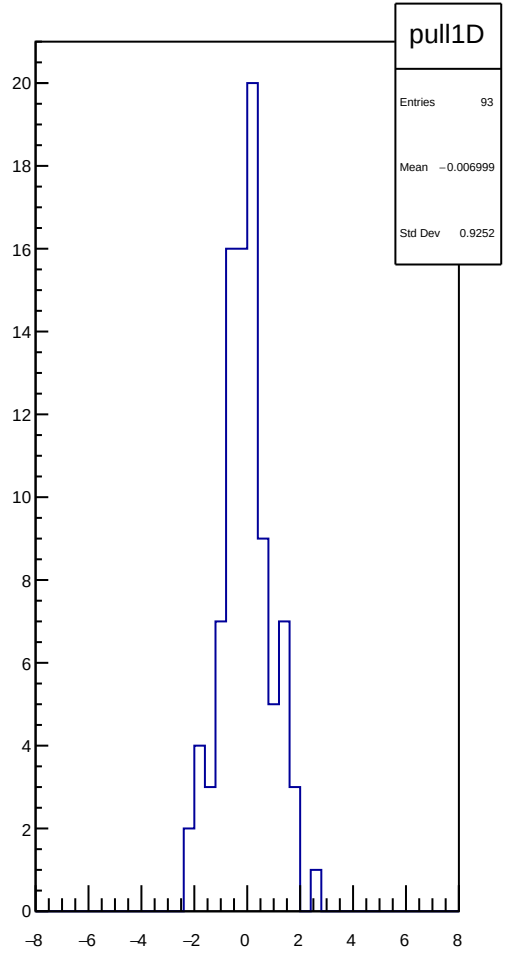

reg_asym_us_dd_rms vs run
χ² / ndf 548.8 / 92
p0 765.7 ± 0.5678
800
790
780
770
760
750
740

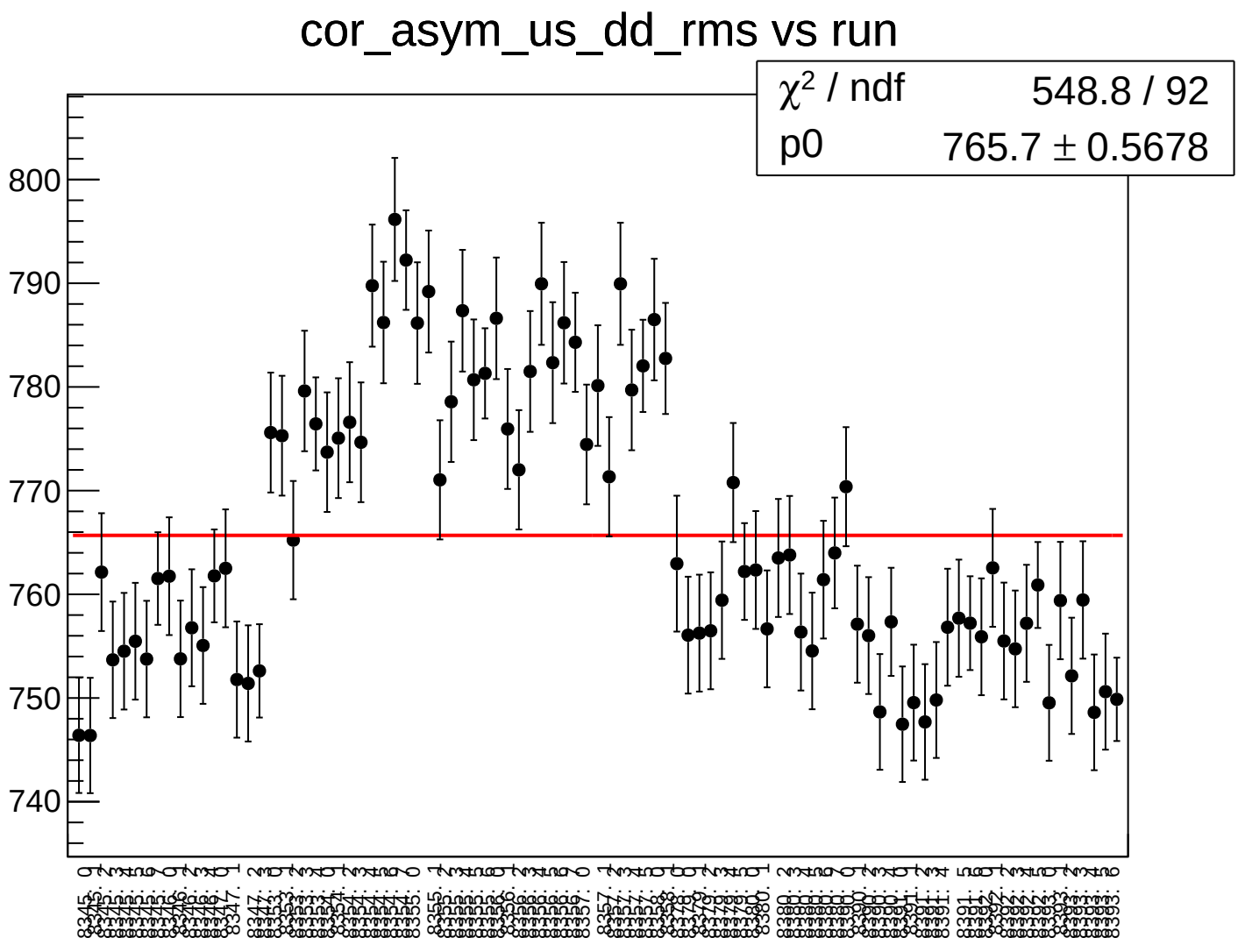

asym_us_dd_reg_correction_mean vs run
χ² / ndf 115.9 / 92
p0 −4258 ± 1282
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −580.9
Std Dev 0
3
2
1
0
−1
−2
−3

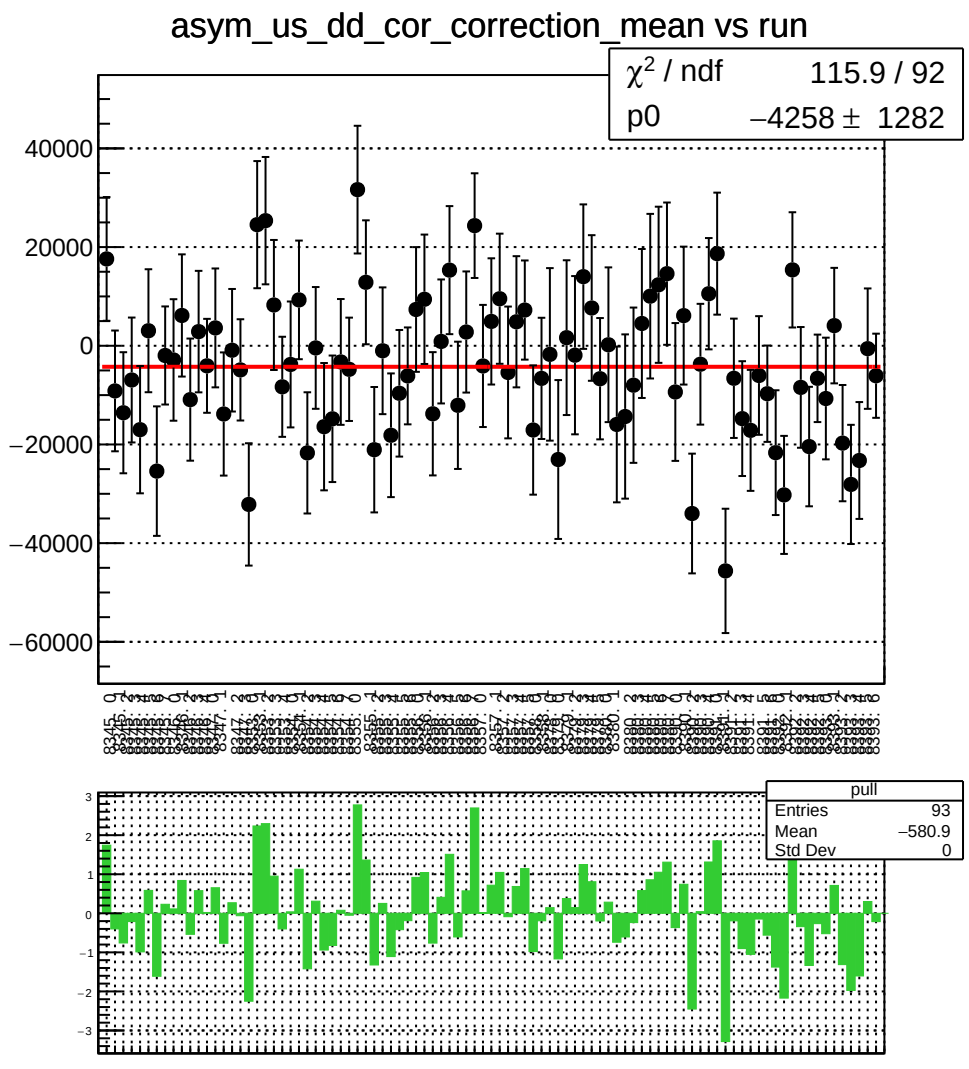

pull1D
Entries 93
Mean 0.008421
Std Dev 1.116
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

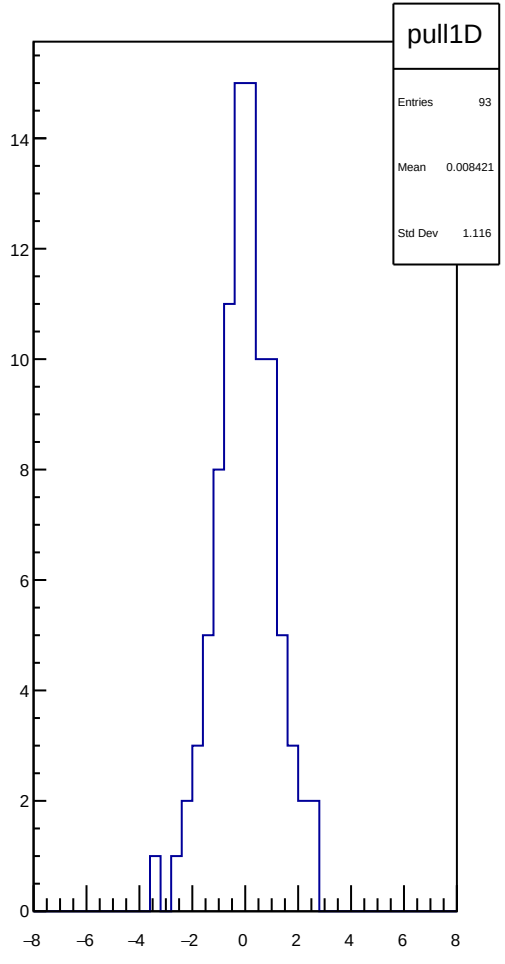

asym_us_dd_reg_correction_rms vs run
χ² / ndf 1.198e+04 / 92
p0 1218 ± 0.9063
1600
1500
1400
1300
1200
1100

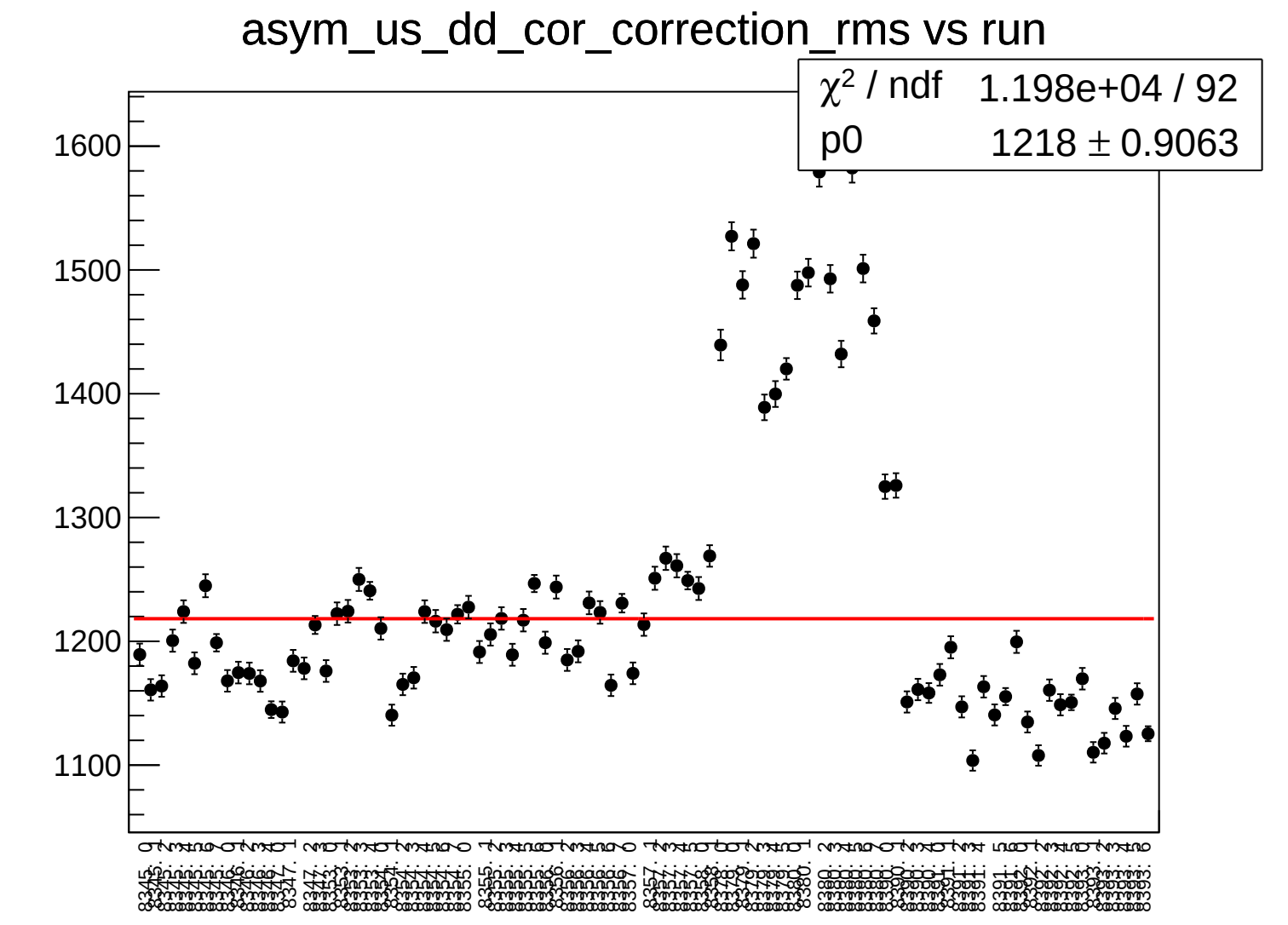

cor_asym_us_dd_mean vs run
χ² / ndf 79.62 / 92
p0 −375.7 ± 803
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean 31.32
Std Dev 0
2
1
0
−1
−2

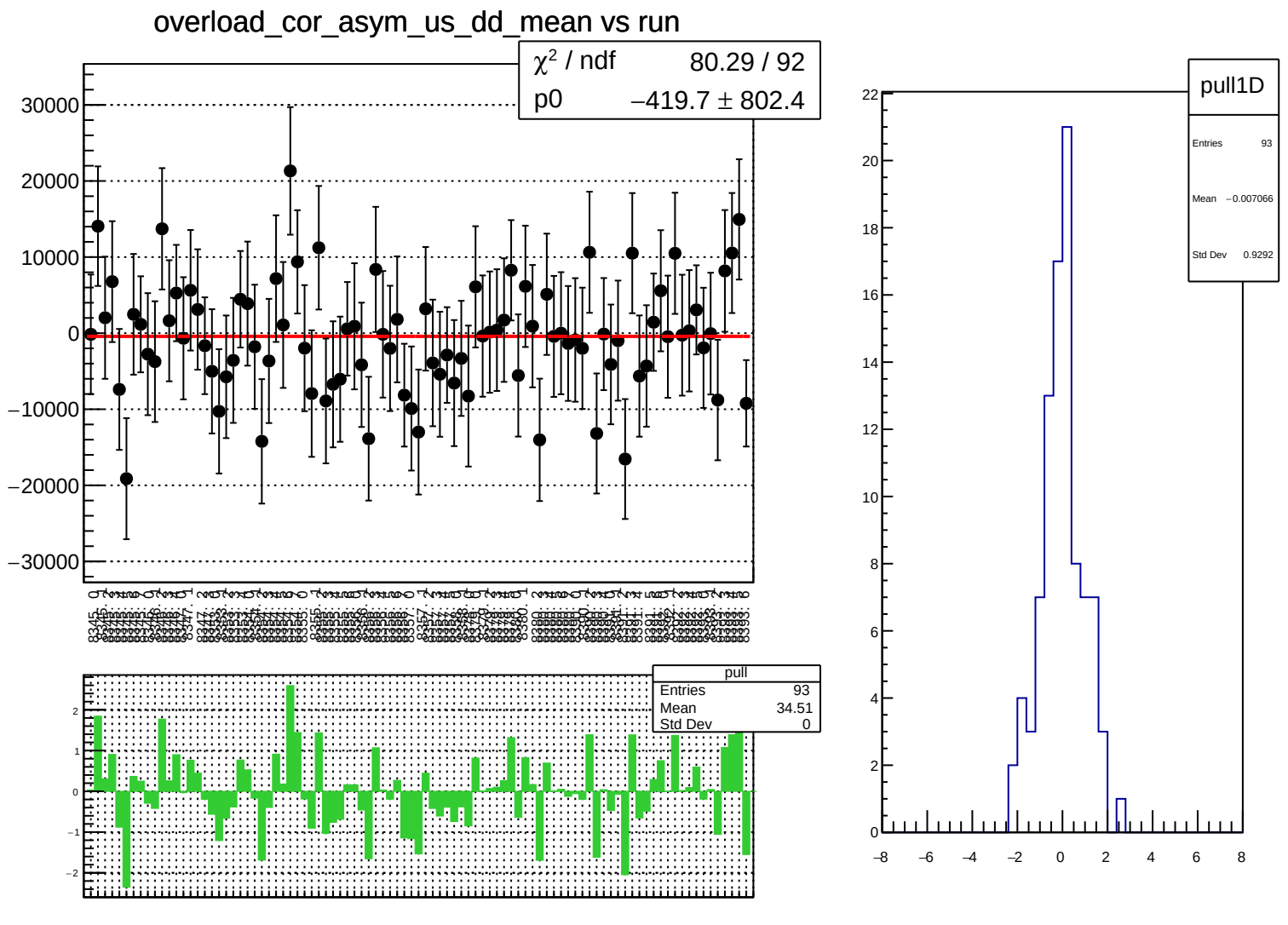

pull1D
Entries 93
Mean −0.006999
Std Dev 0.9252
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

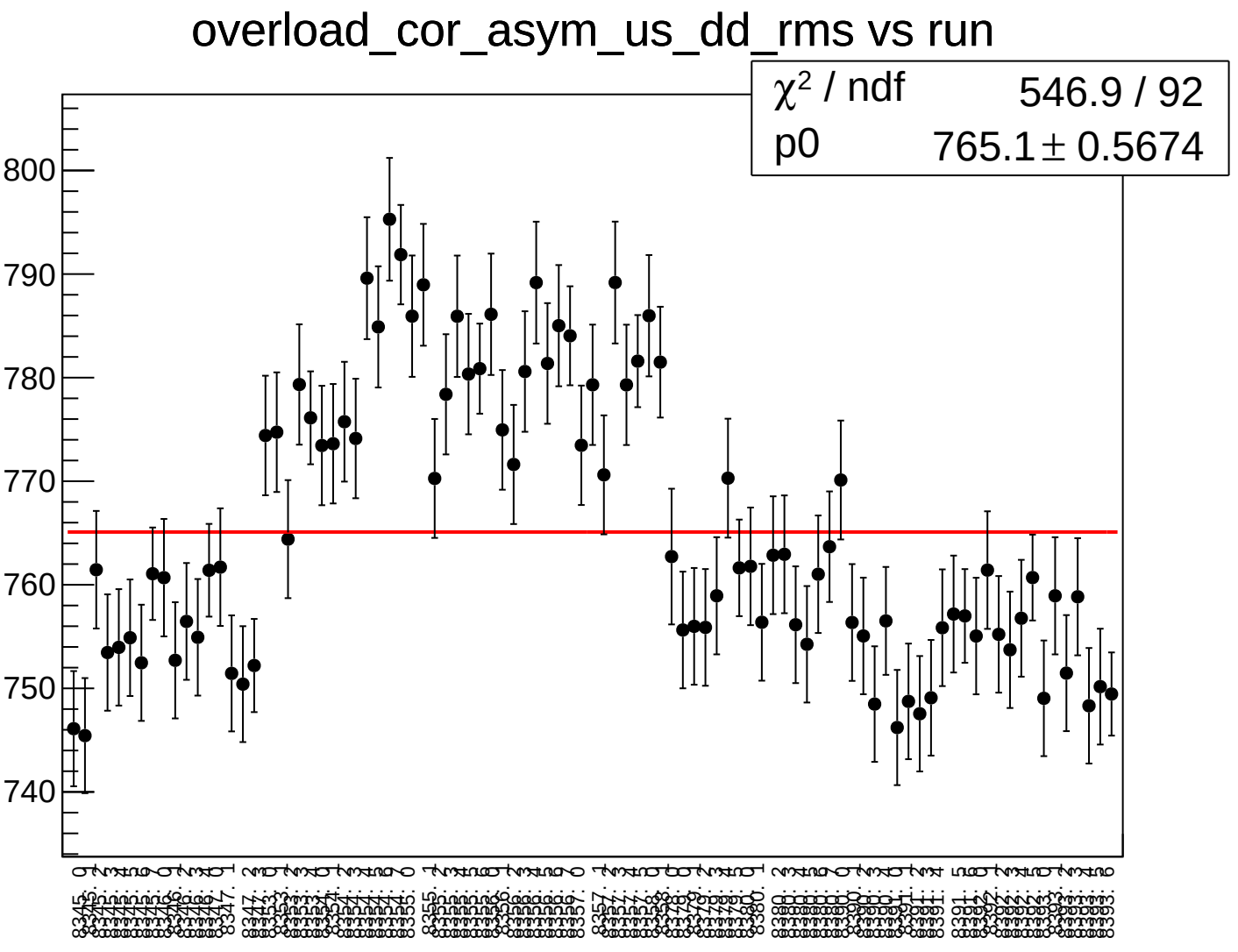

cor_asym_us_dd_rms vs run
χ² / ndf 548.8 / 92
p0 765.7 ± 0.5678
800
790
780
770
760
750
740

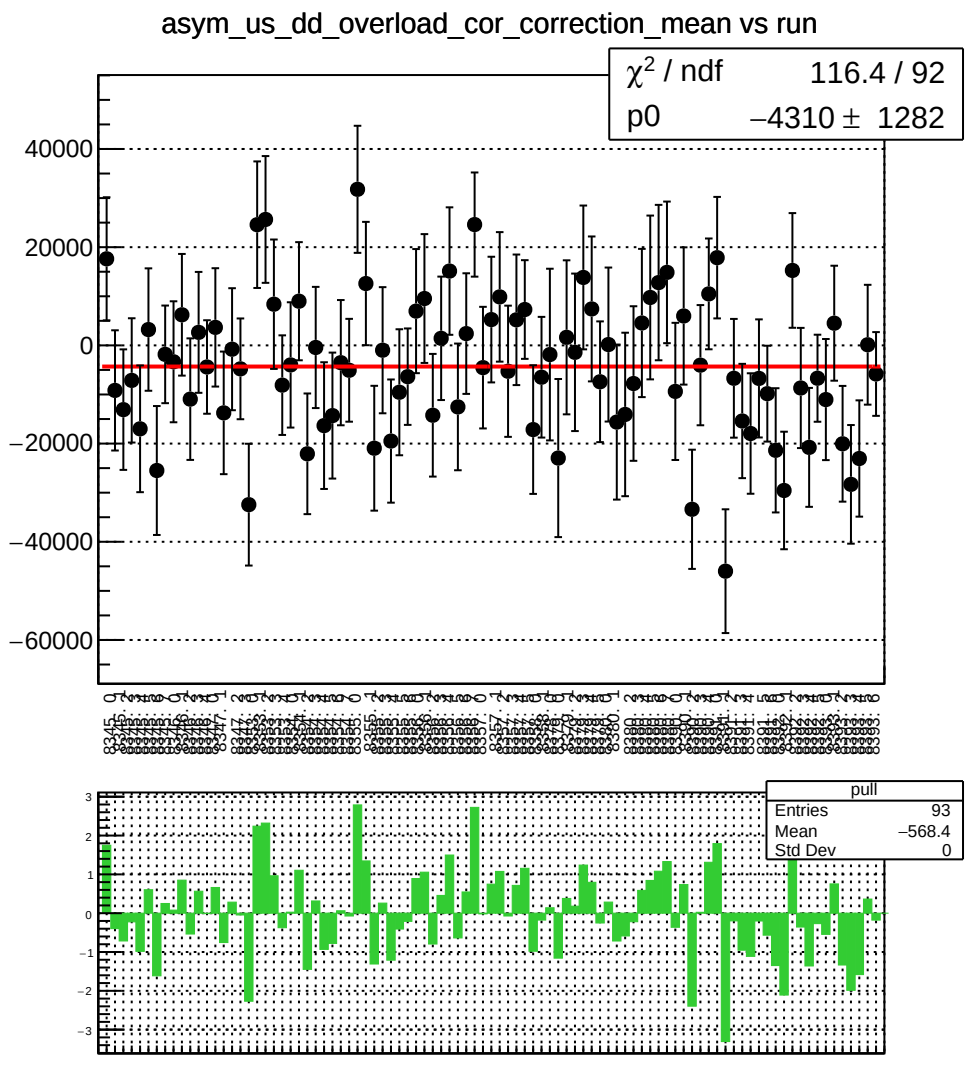

asym_us_dd_cor_correction_mean vs run
χ² / ndf 115.9 / 92
p0 −4258 ± 1282
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −580.9
Std Dev 0
3
2
1
0
−1
−2
−3

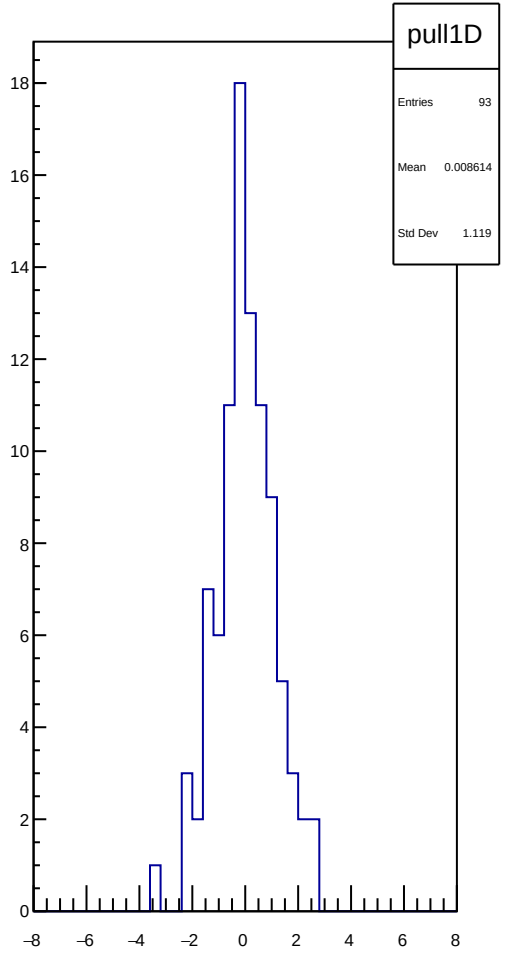

pull1D
Entries 93
Mean 0.008421
Std Dev 1.116
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

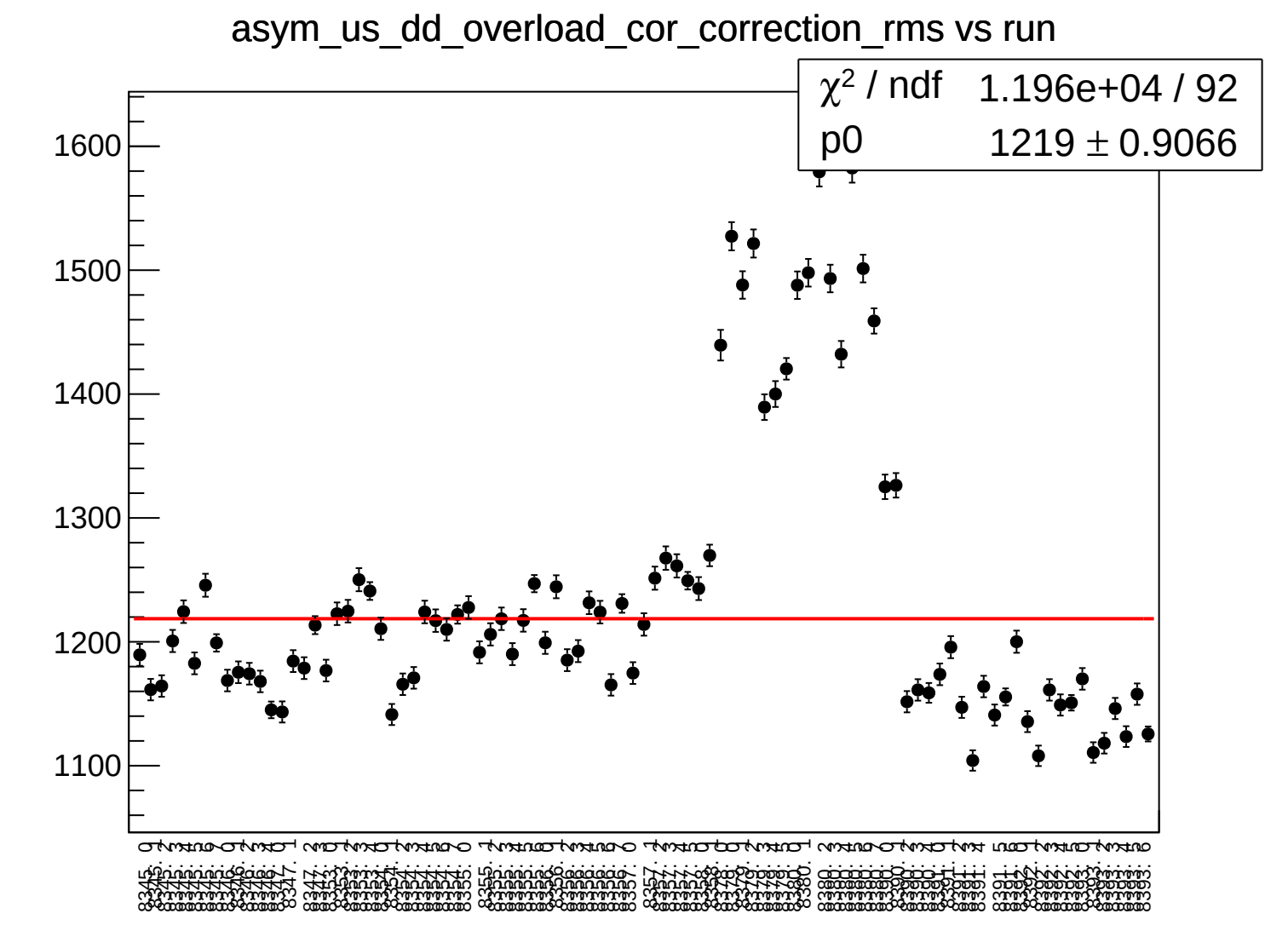

asym_us_dd_cor_correction_rms vs run
χ² / ndf 1.198e+04 / 92
p0 1218 ± 0.9063
1600
1500
1400
1300
1200
1100

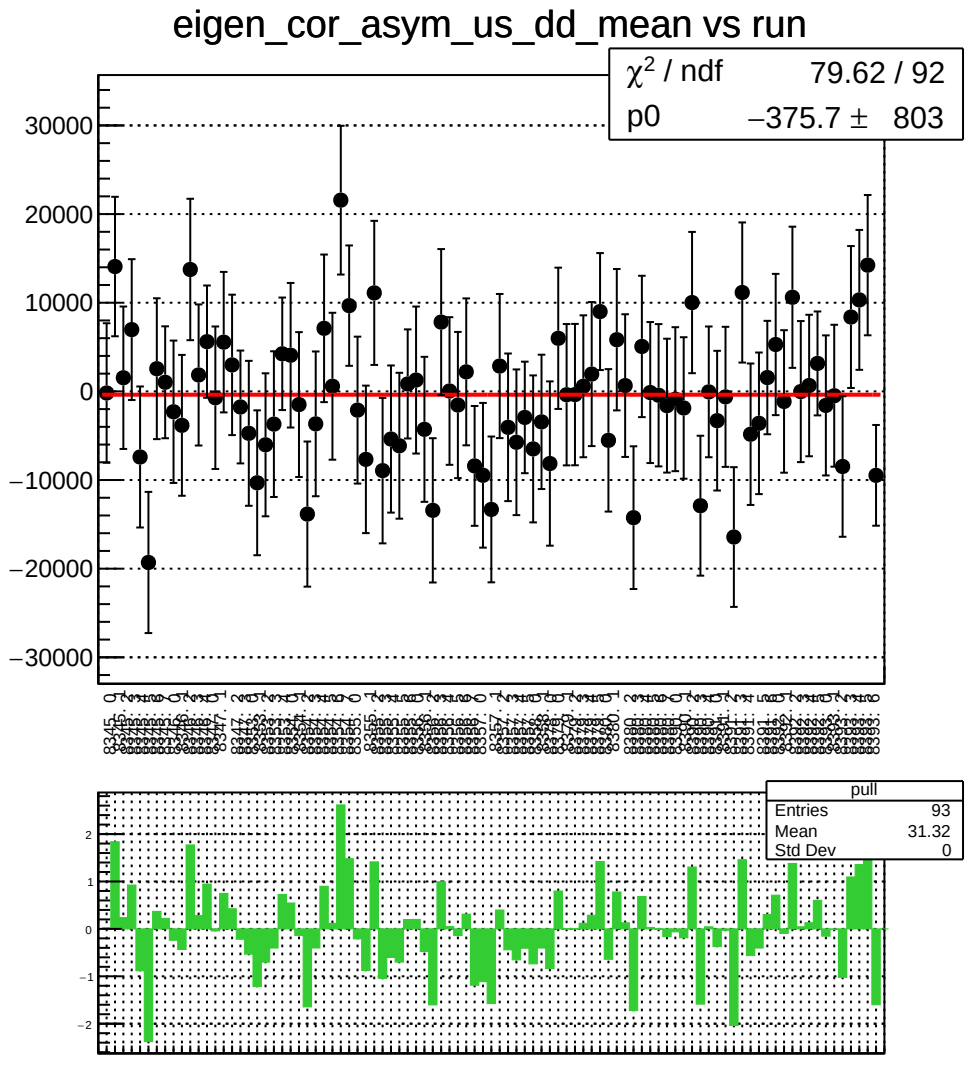

overload_cor_asym_us_dd_mean vs run
χ² / ndf 80.29 / 92
p0 −419.7 ± 802.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean 34.51
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.007066
Std Dev 0.9292
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

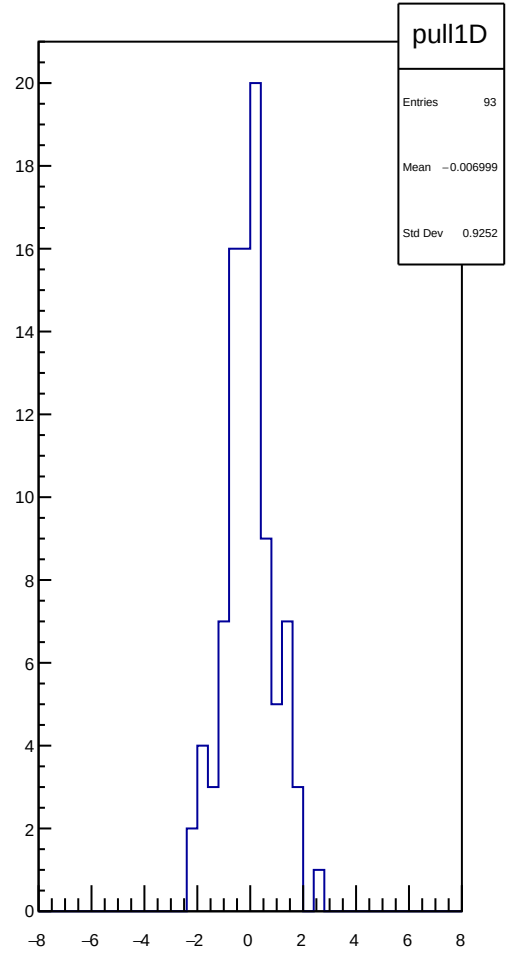

overload_cor_asym_us_dd_rms vs run
χ² / ndf 546.9 / 92
p0 765.1 ± 0.5674
800
790
780
770
760
750
740

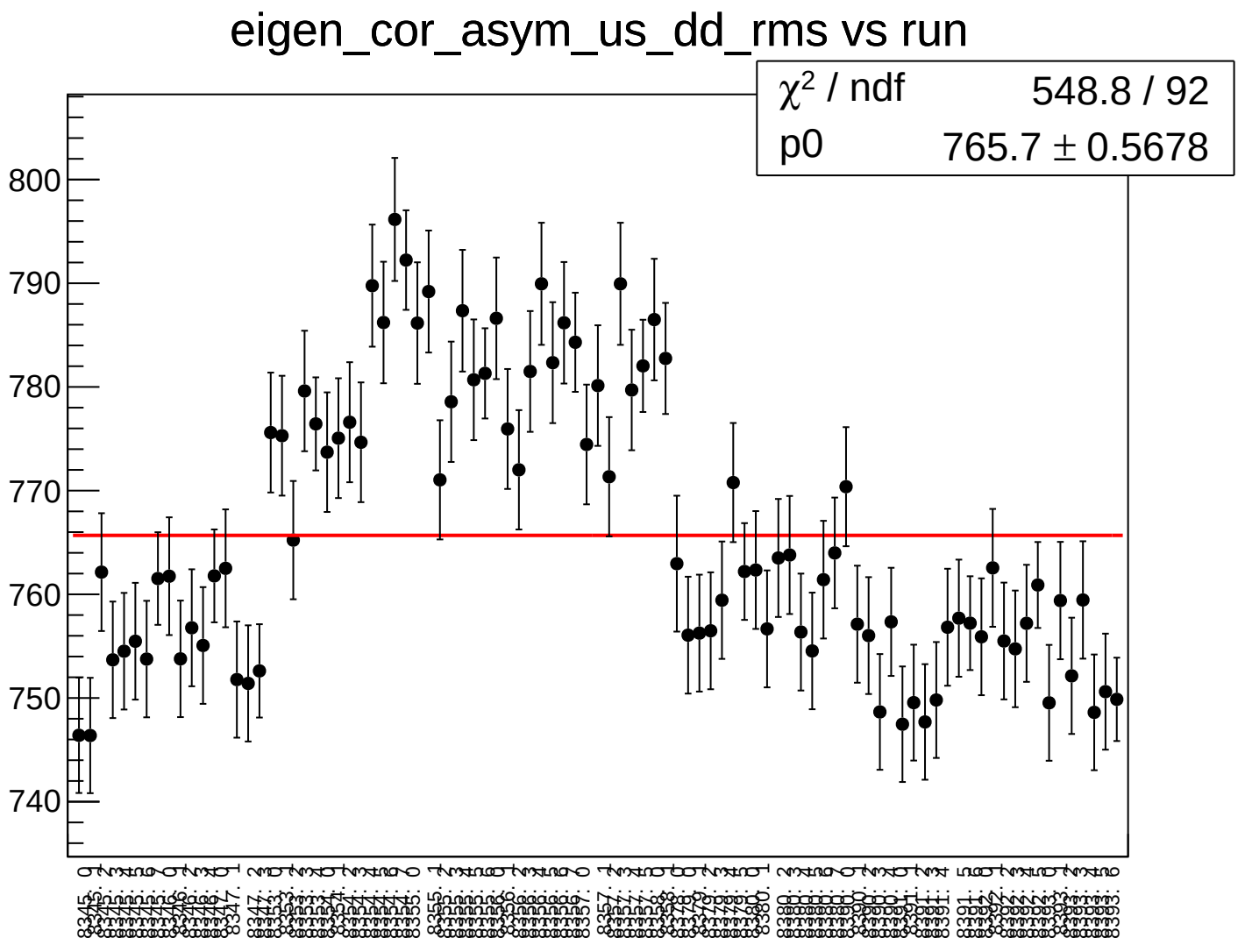

asym_us_dd_overload_cor_correction_mean vs run
χ² / ndf 116.4 / 92
p0 −4310 ± 1282
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −568.4
Std Dev 0
3
2
1
0
−1
−2
−3

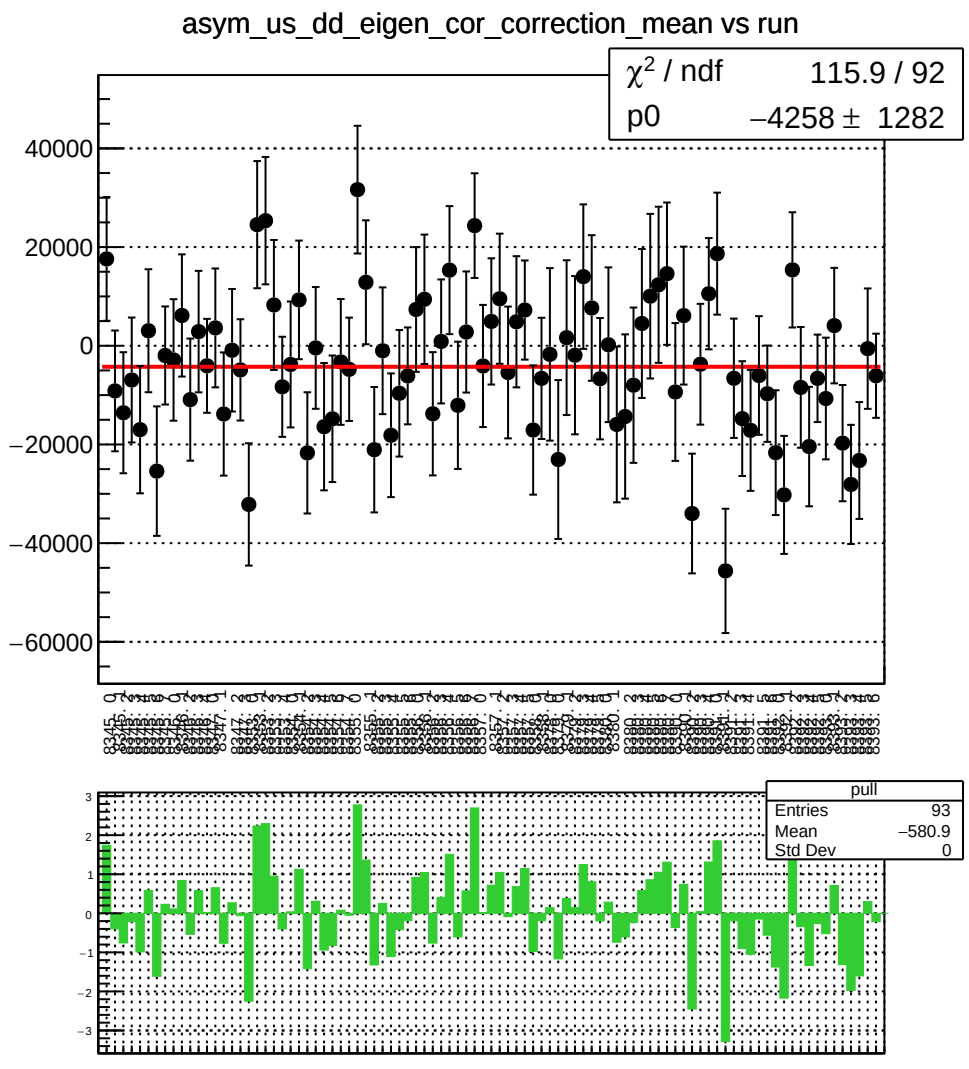

pull1D
Entries 93
Mean 0.008614
Std Dev 1.119
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

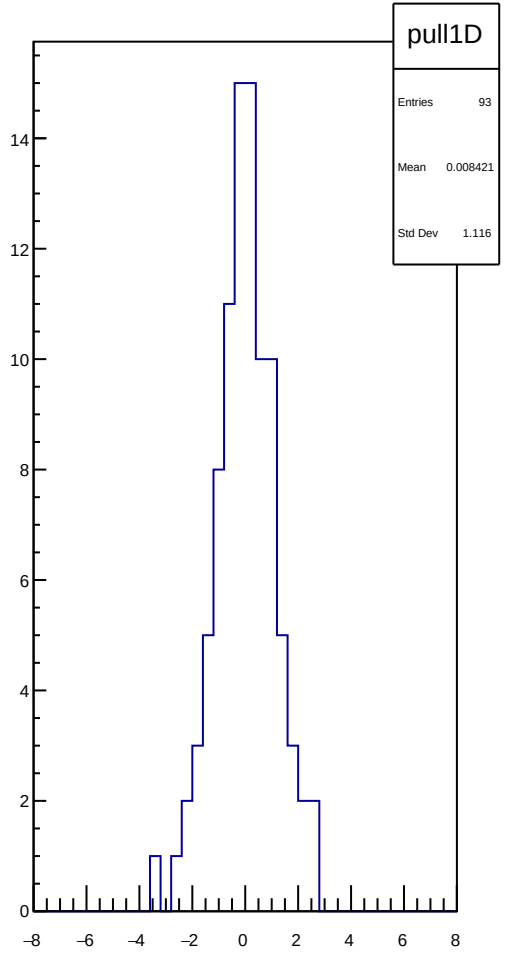

asym_us_dd_overload_cor_correction_rms vs run
χ² / ndf 1.196e+04 / 92
p0 1219 ± 0.9066
1600
1500
1400
1300
1200
1100

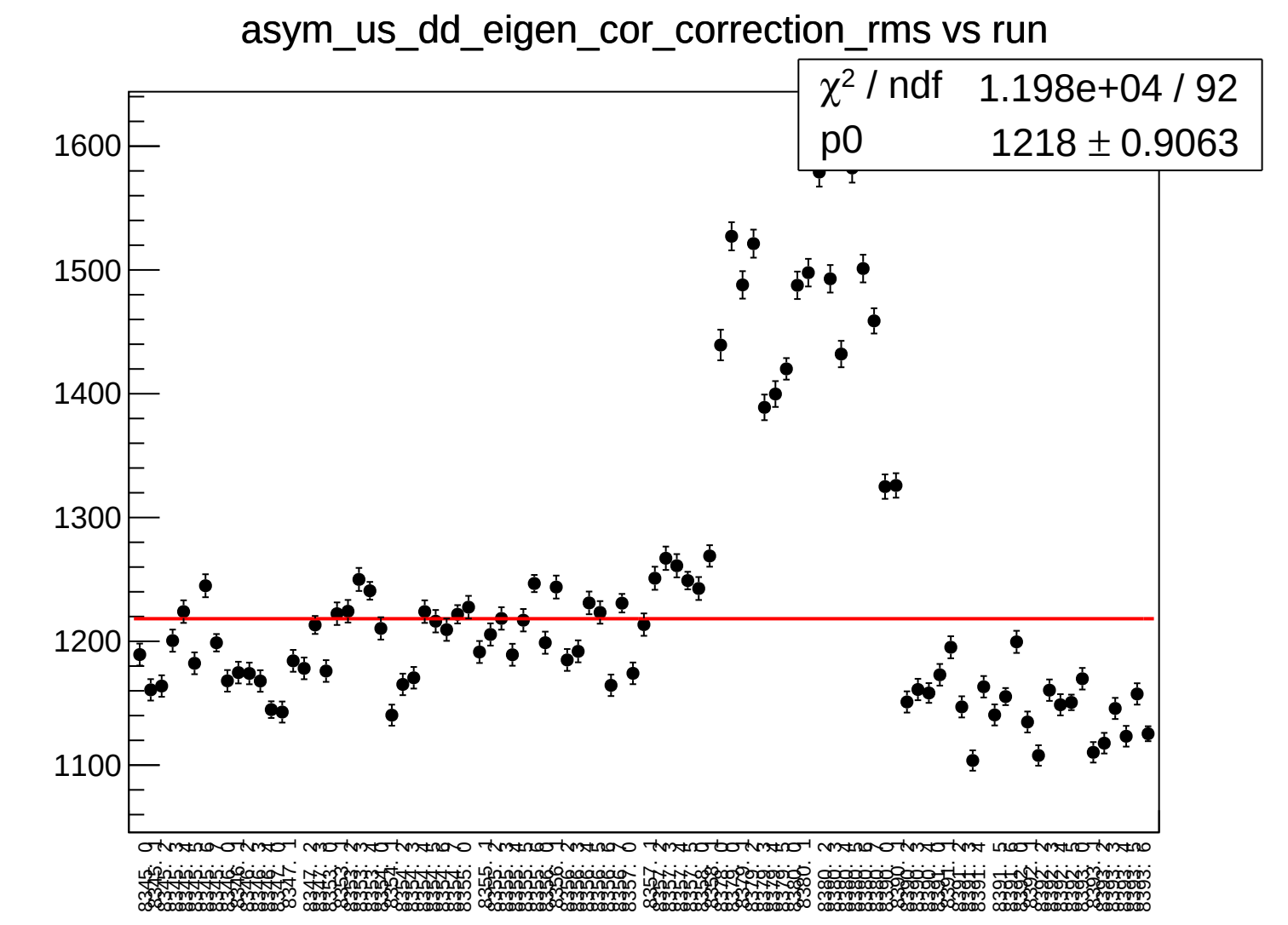

eigen_cor_asym_us_dd_mean vs run
χ² / ndf 79.62 / 92
p0 −375.7 ± 803
pull
Entries 93
Mean 31.32
Std Dev 0

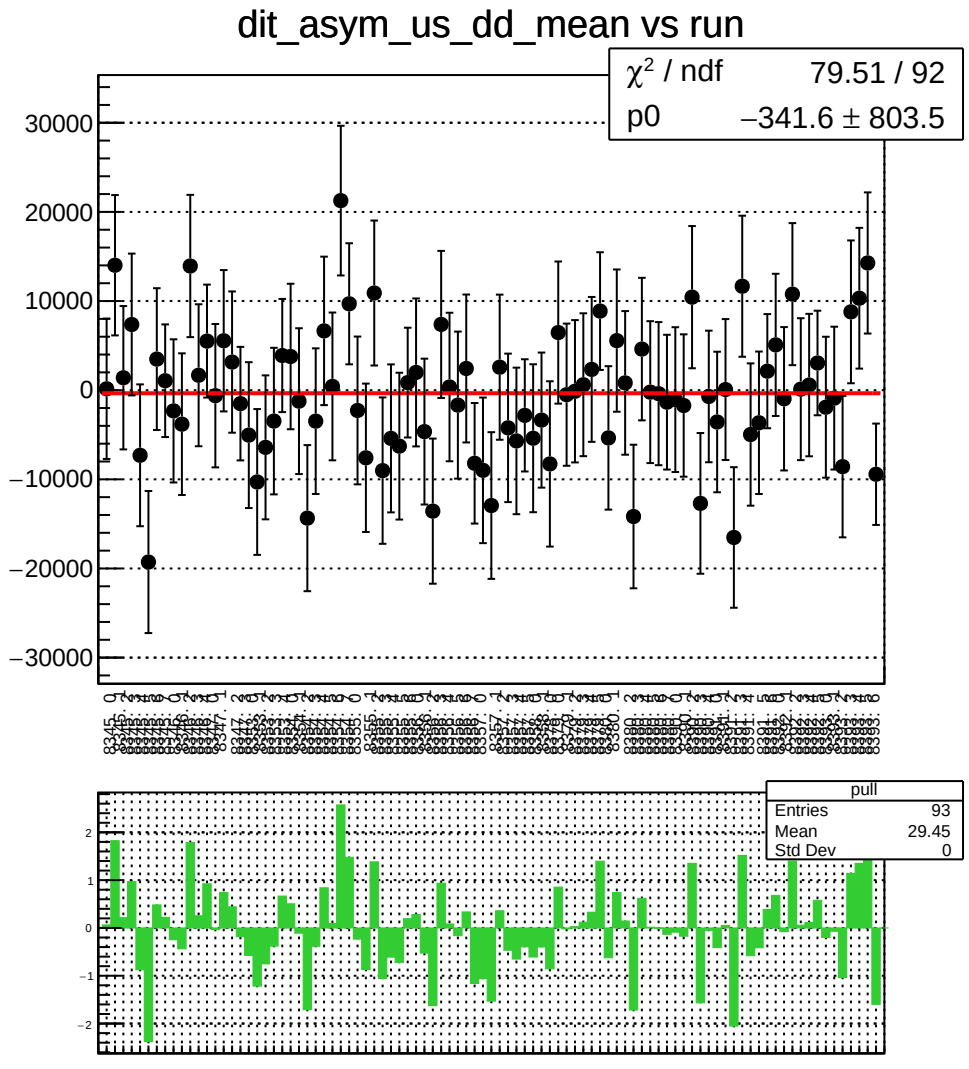

pull1D
Entries 93
Mean −0.006999
Std Dev 0.9252

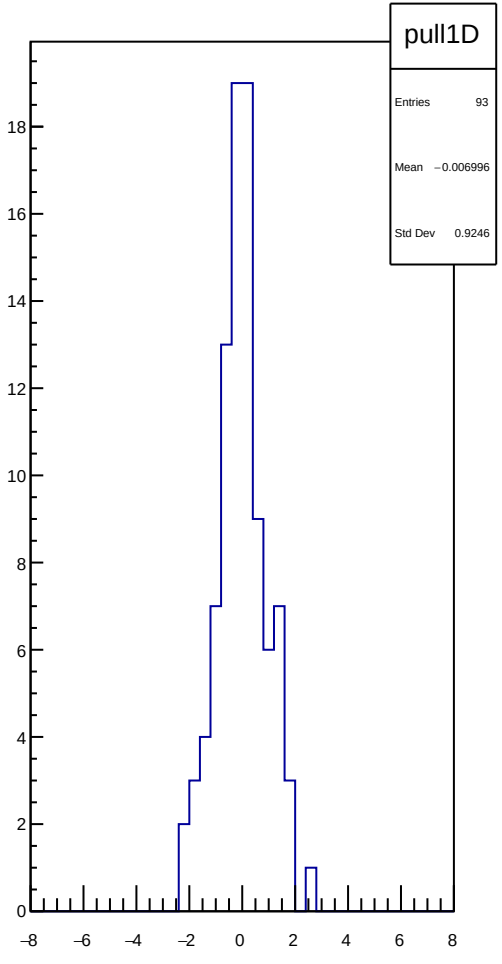

eigen_cor_asym_us_dd_rms vs run
χ² / ndf 548.8 / 92
p0 765.7 ± 0.5678
800
790
780
770
760
750
740

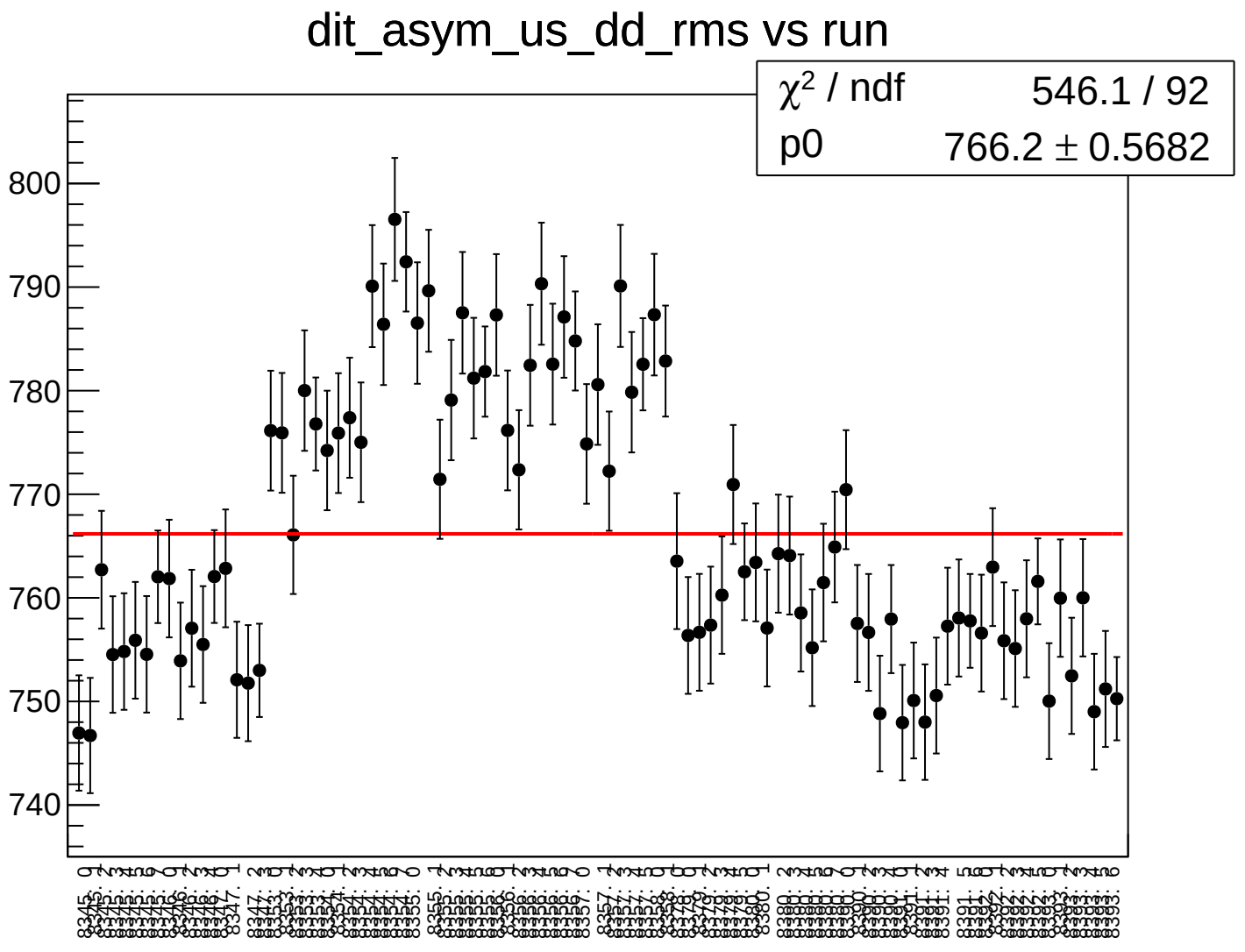

asym_us_dd_eigen_cor_correction_mean vs run
χ² / ndf 115.9 / 92
p0 −4258 ± 1282
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −580.9
Std Dev 0
3
2
1
0
−1
−2
−3

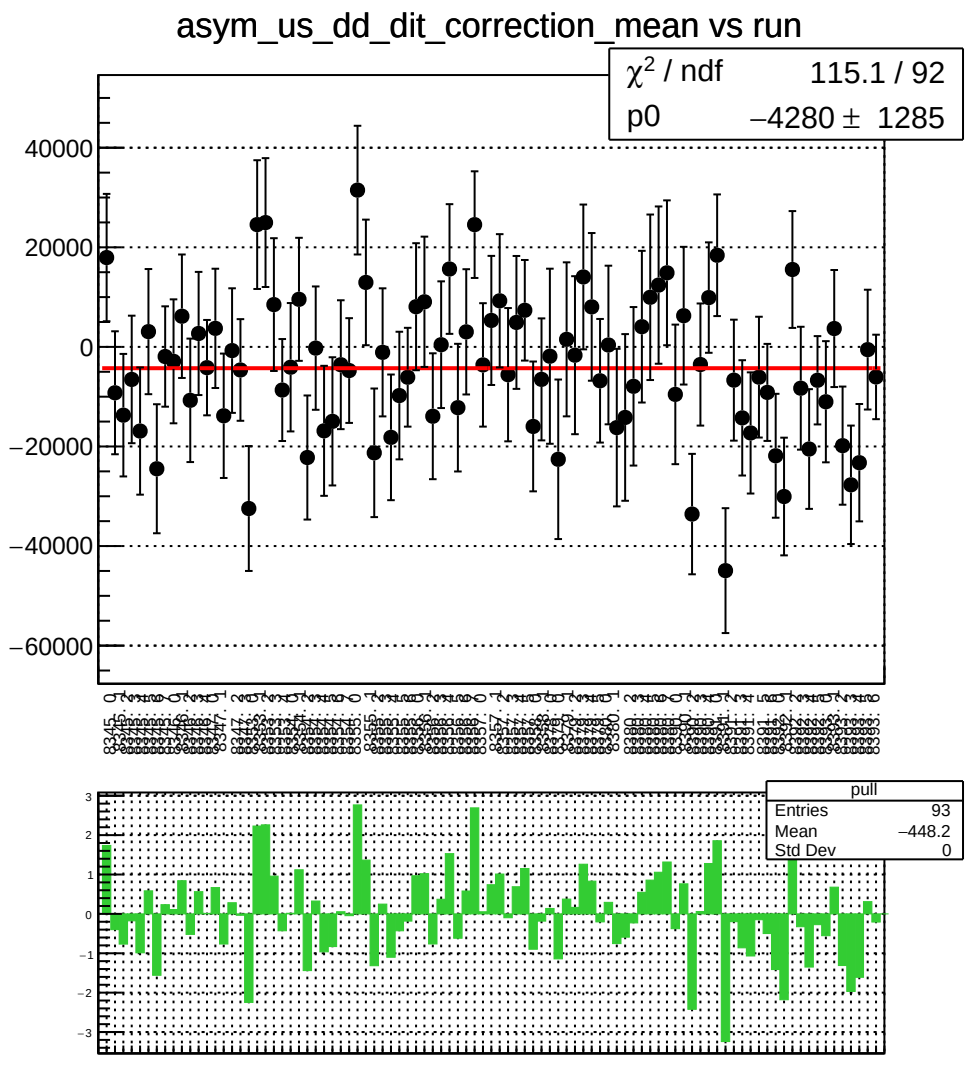

pull1D
Entries 93
Mean 0.008421
Std Dev 1.116
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

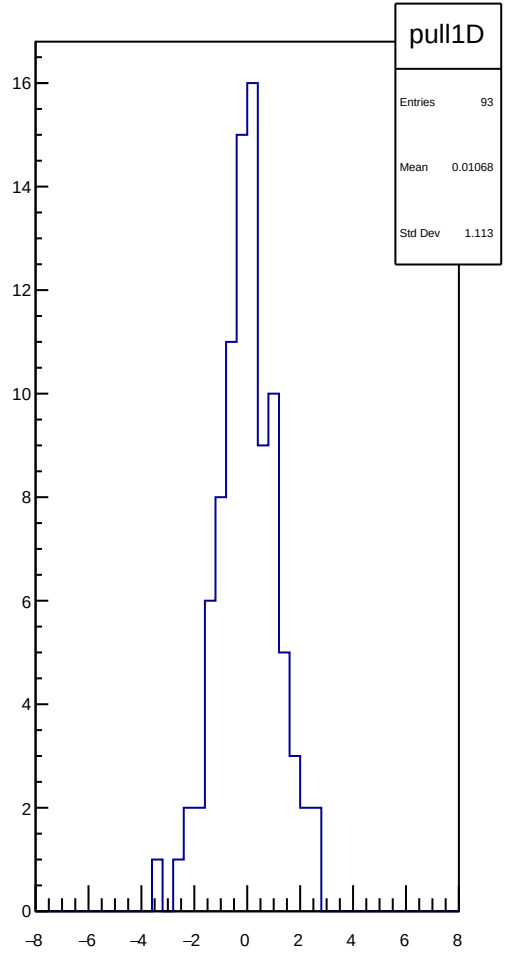

asym_us_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.198e+04 / 92
p0 1218 ± 0.9063
1600
1500
1400
1300
1200
1100

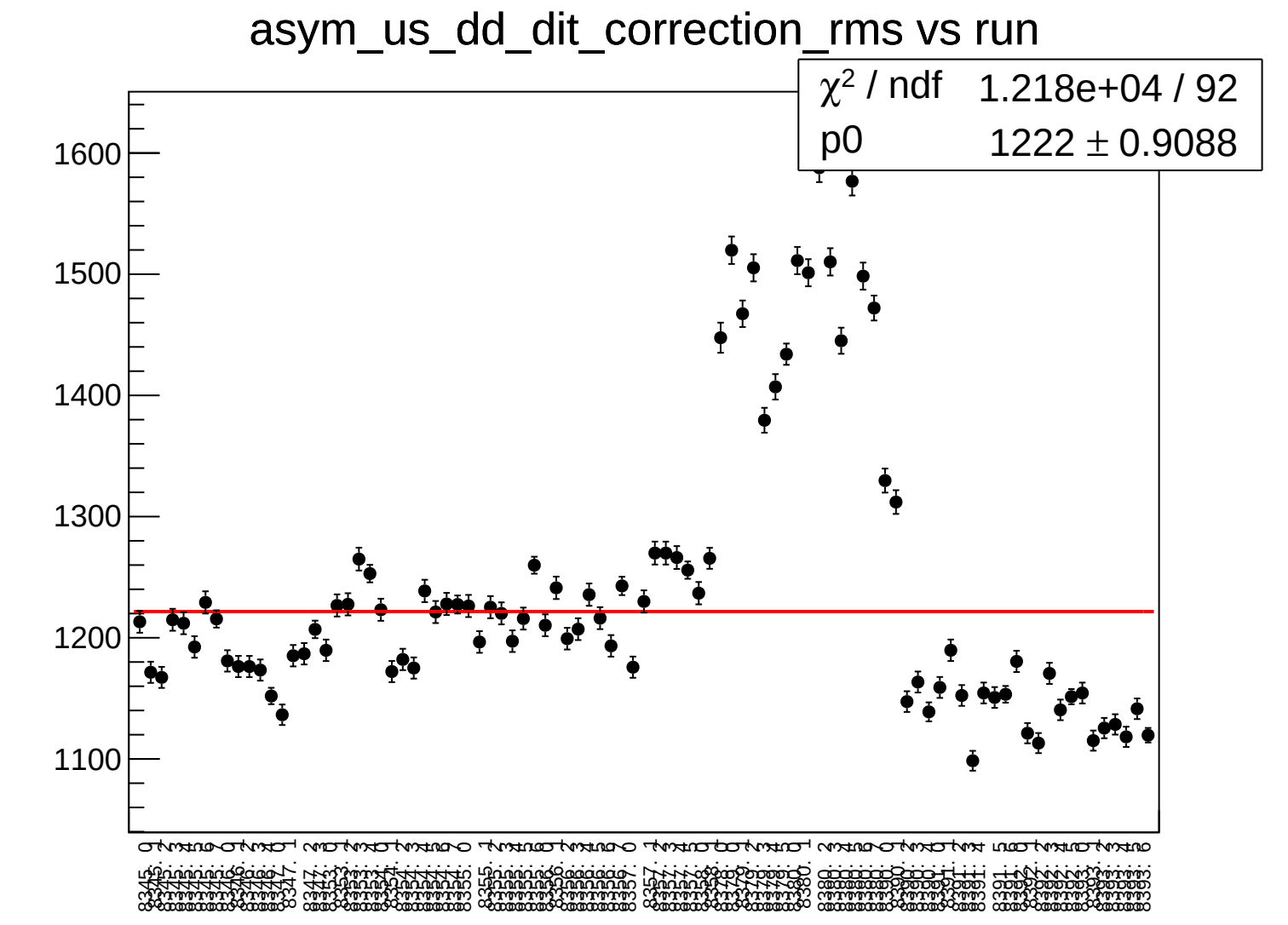

dit_asym_us_dd_mean vs run
χ² / ndf 79.51 / 92
p0 −341.6 ± 803.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean 29.45
Std Dev 0
2
1
0
−1
−2

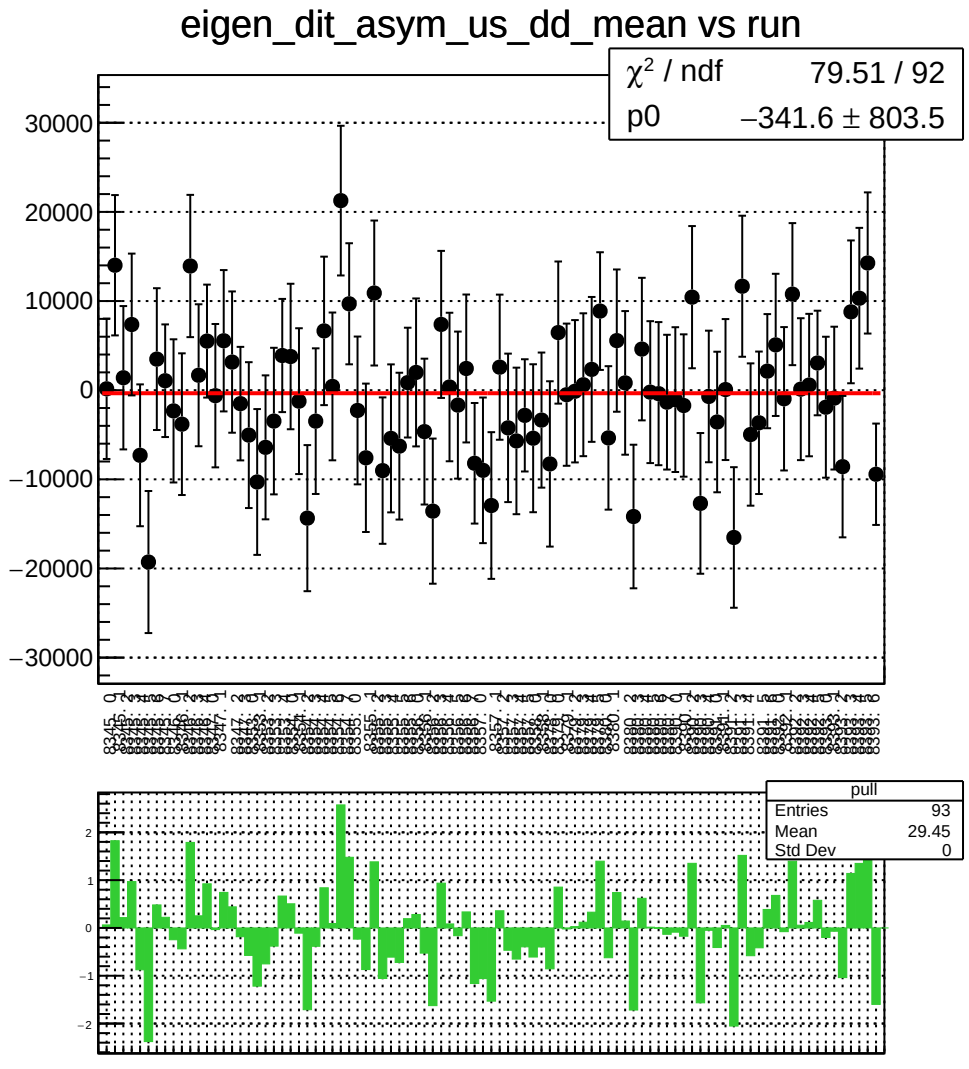

pull1D
Entries 93
Mean −0.006996
Std Dev 0.9246
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

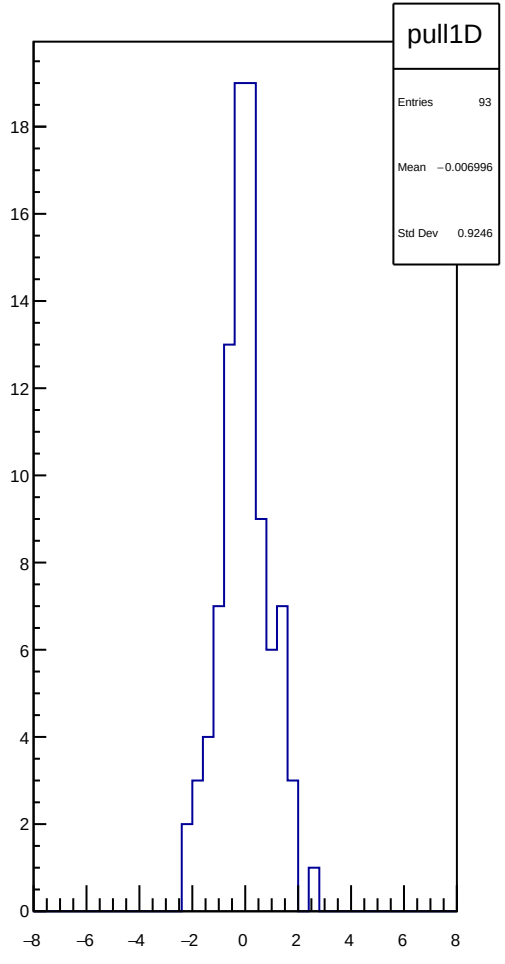

dit_asym_us_dd_rms vs run
χ^2 / ndf 546.1 / 92
p0 766.2 ± 0.5682
800
790
780
770
760
750
740

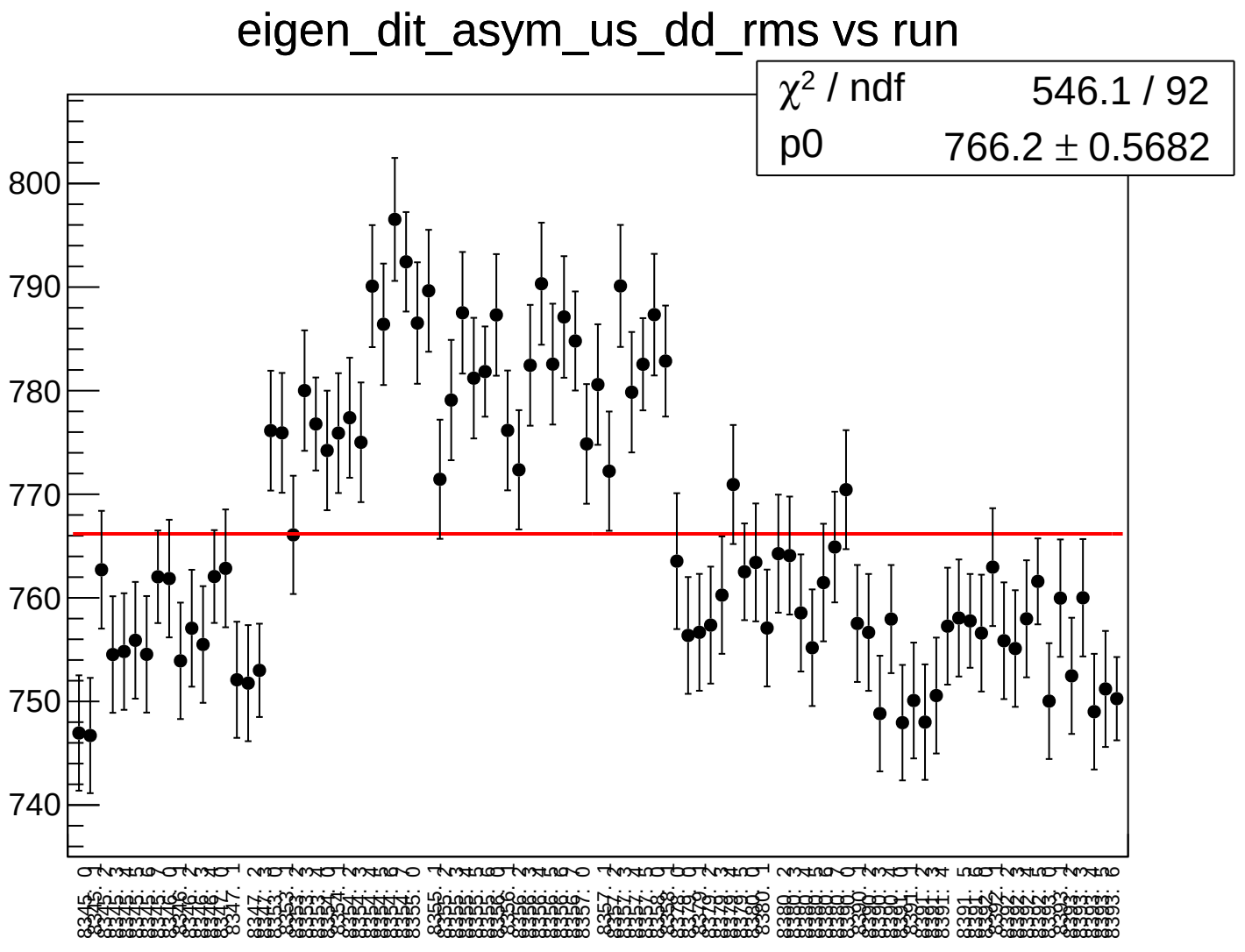

asym_us_dd_dit_correction_mean vs run
χ² / ndf 115.1 / 92
p0 −4280 ± 1285
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −448.2
Std Dev 0
3
2
1
0
−1
−2
−3

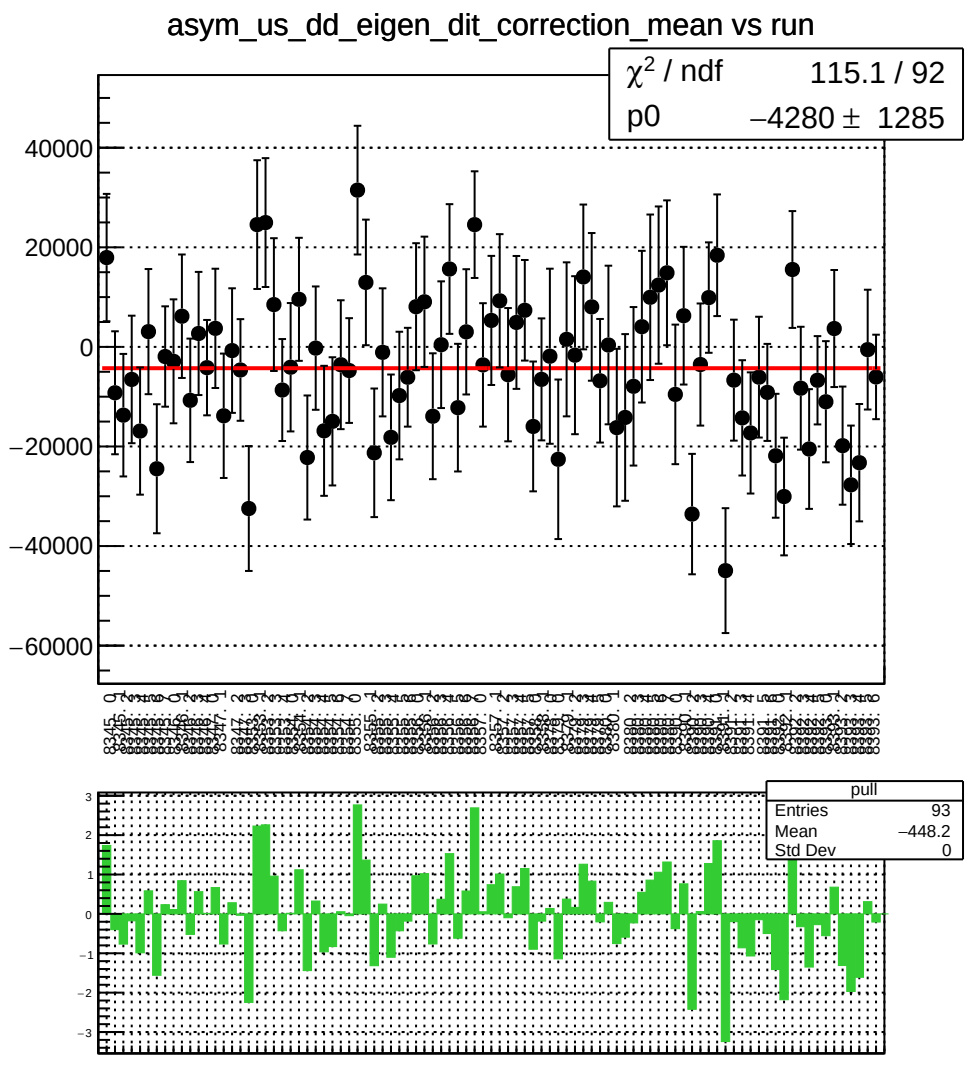

pull1D
Entries 93
Mean 0.01068
Std Dev 1.113
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

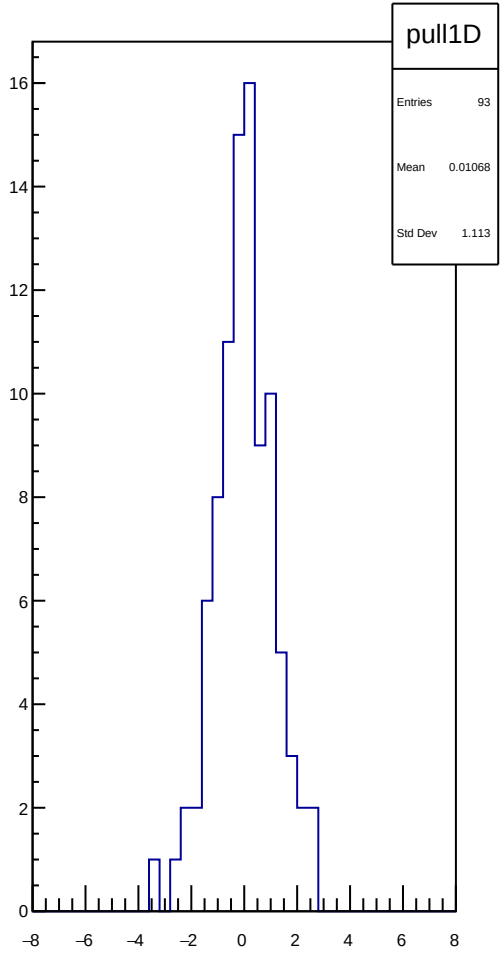

asym_us_dd_dit_correction_rms vs run
χ² / ndf 1.218e+04 / 92
p0 1222 ± 0.9088
1600
1500
1400
1300
1200
1100

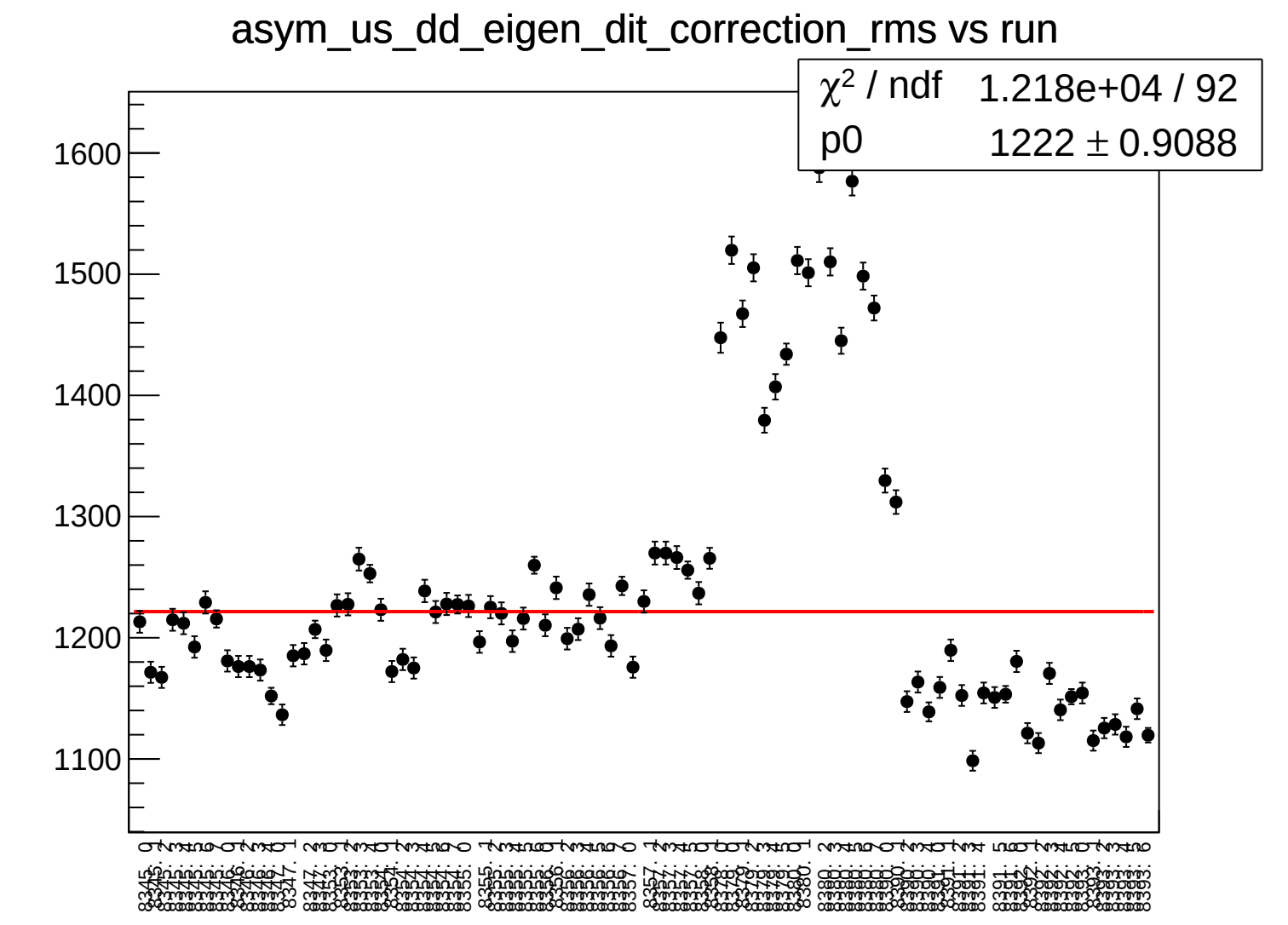

eigen_dit_asym_us_dd_mean vs run
χ² / ndf 79.51 / 92
p0 −341.6 ± 803.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean 29.45
Std Dev 0
2
1
0
−1
−2

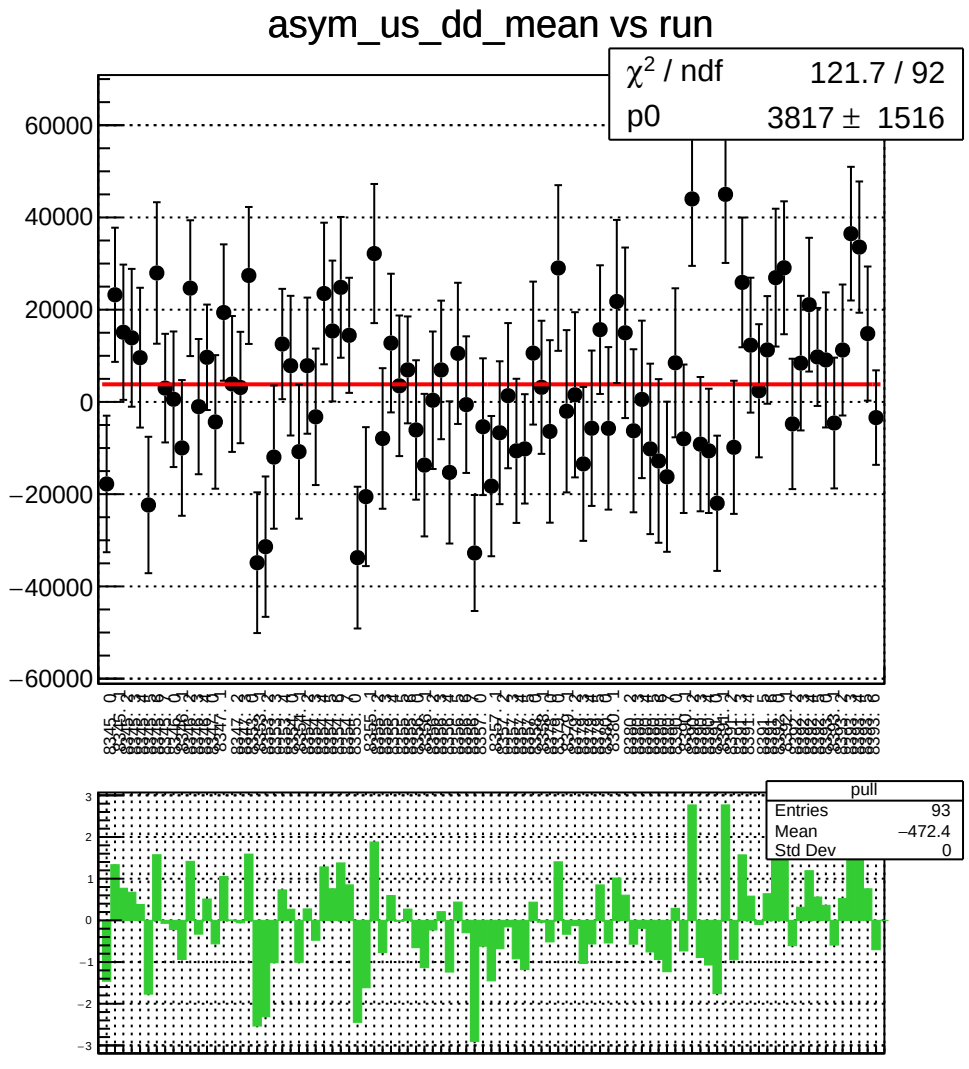

pull1D
Entries 93
Mean −0.006996
Std Dev 0.9246
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

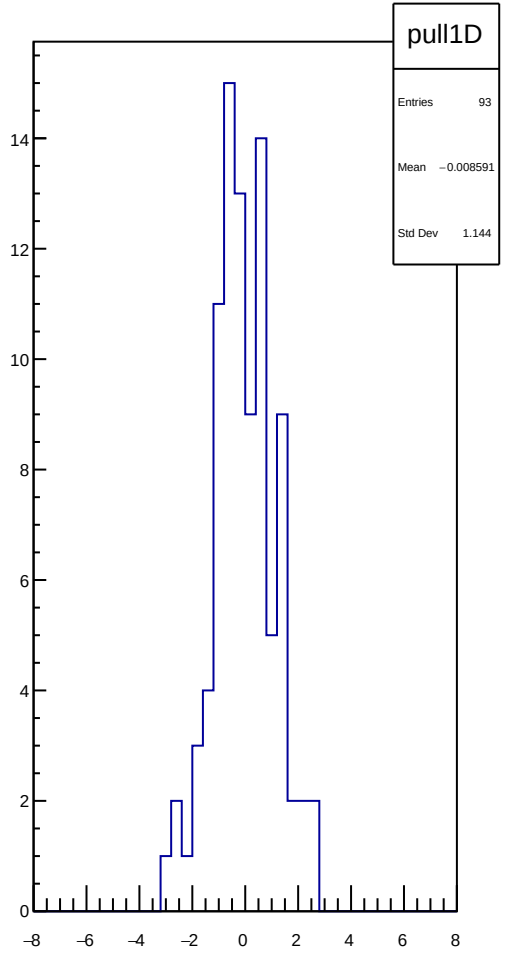

eigen_dit_asym_us_dd_rms vs run
χ² / ndf 546.1 / 92
p0 766.2 ± 0.5682
800
790
780
770
760
750
740

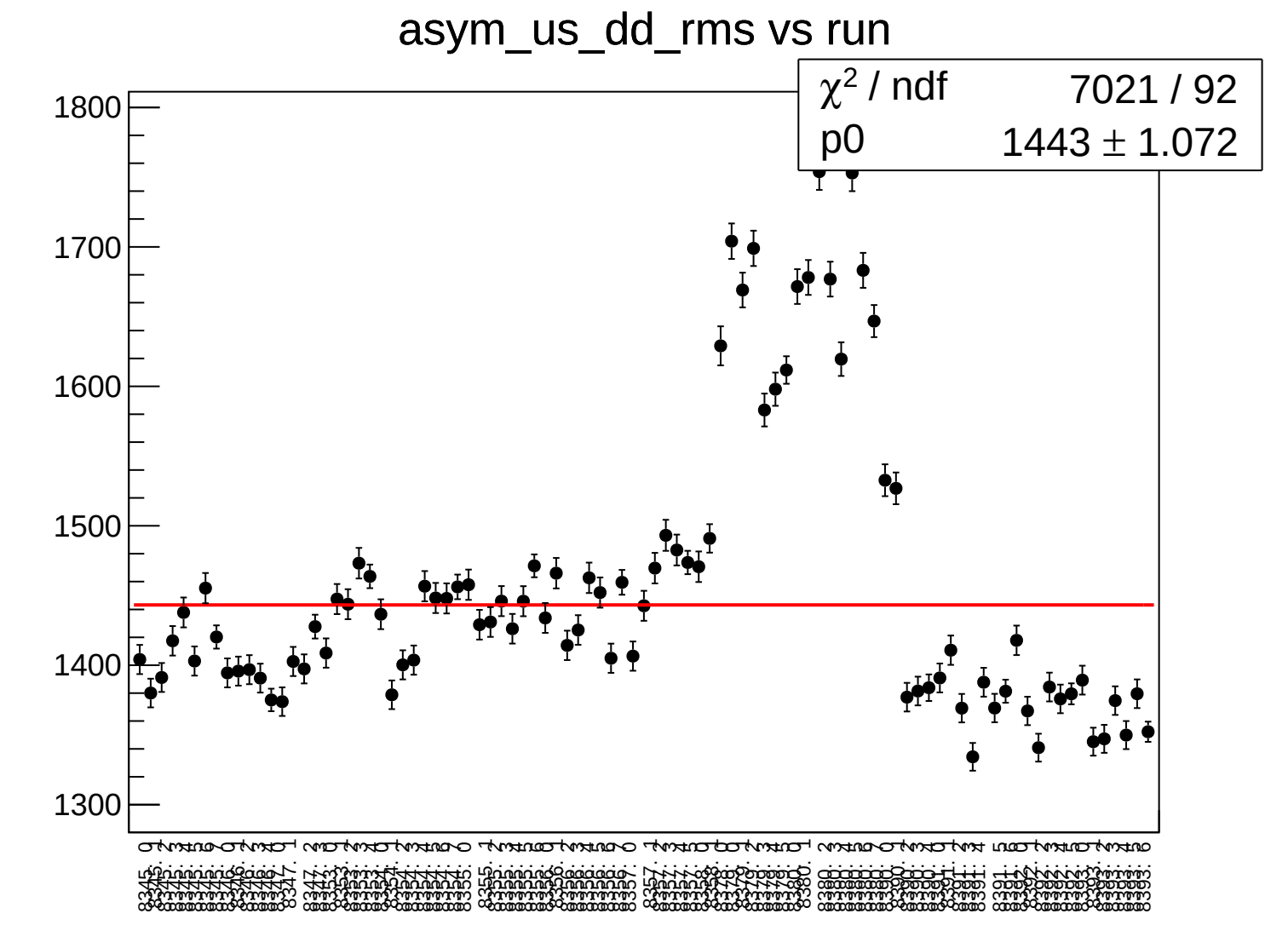

asym_us_dd_eigen_dit_correction_mean vs run
χ² / ndf 115.1 / 92
p0 −4280 ± 1285
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −448.2
Std Dev 0
3
2
1
0
−1
−2
−3

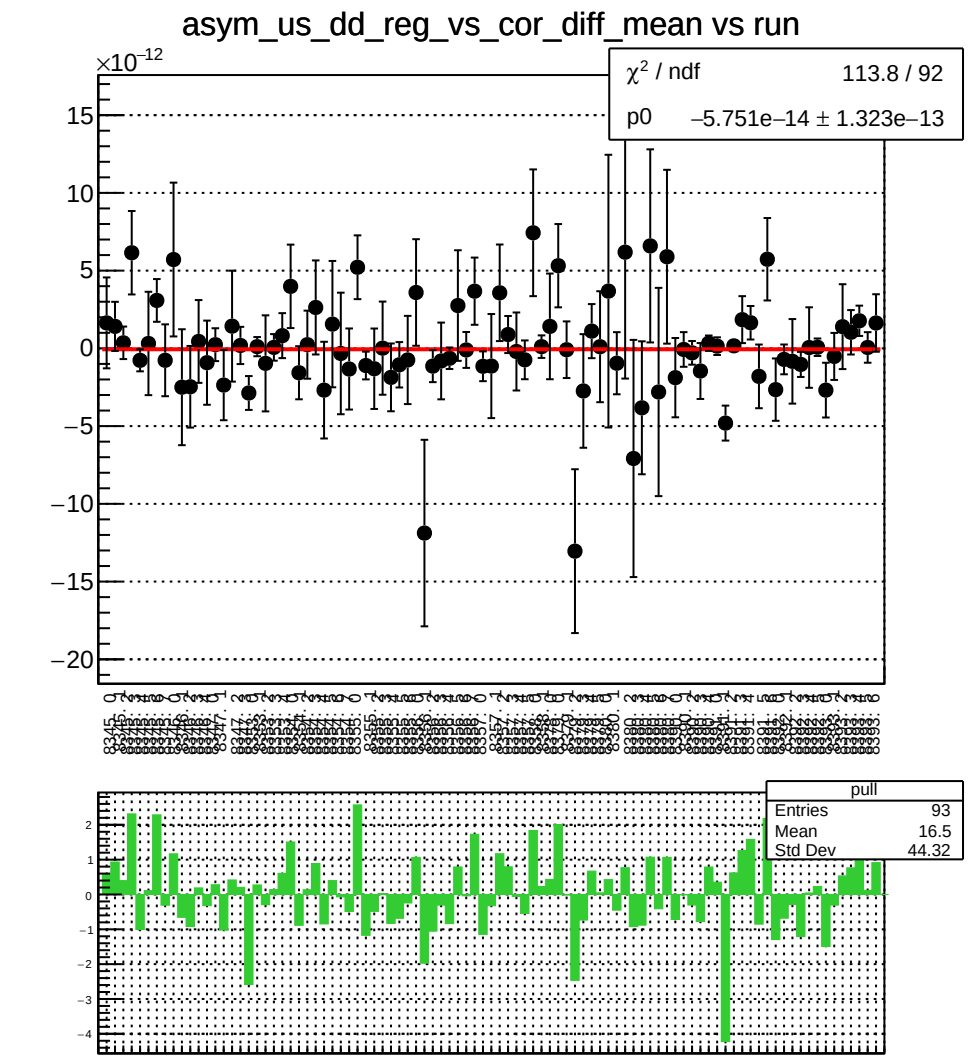

pull1D
Entries 93
Mean 0.01068
Std Dev 1.113
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

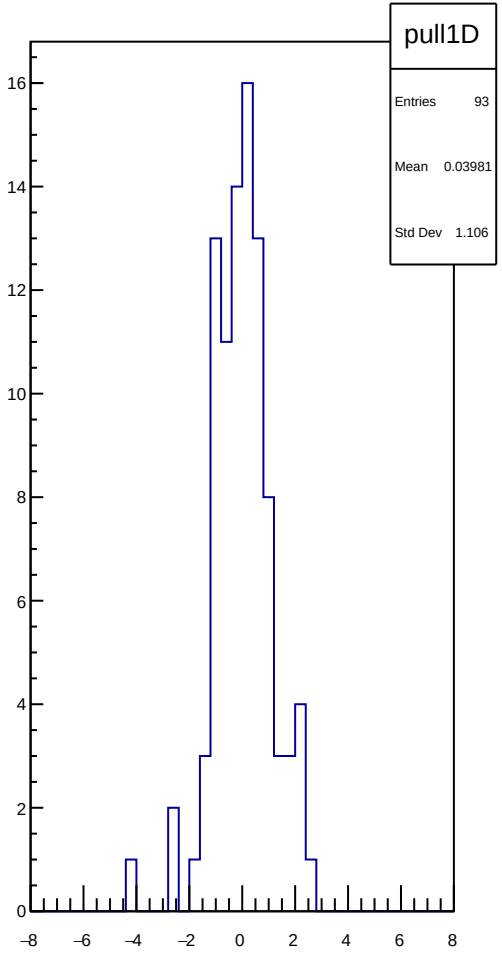

asym_us_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.218e+04 / 92
p0 1222 ± 0.9088
1600
1500
1400
1300
1200
1100

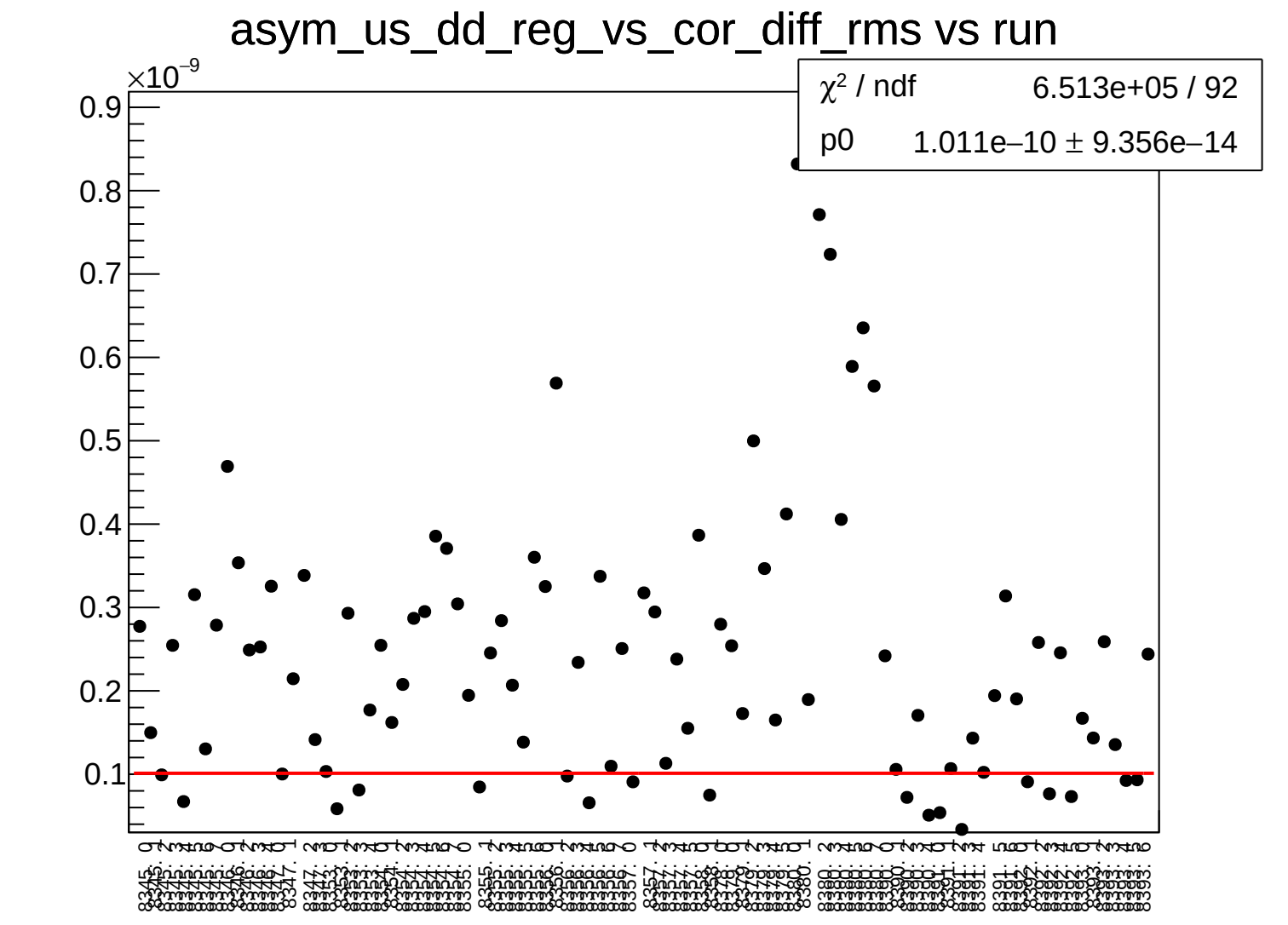

asym_us_dd_mean vs run
χ^2 / ndf 121.7 / 92
p0 3817 ± 1516
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −472.4
Std Dev 0
3
2
1
0
−1
−2
−3

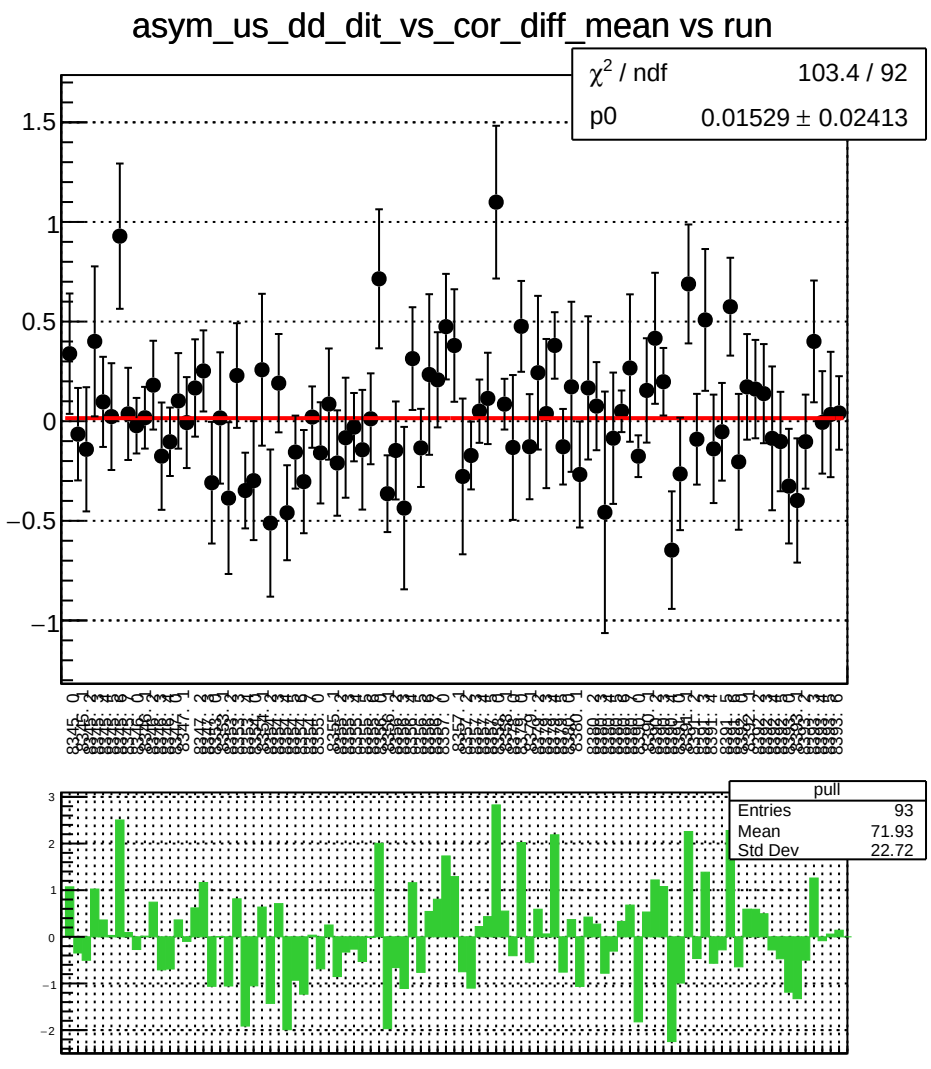

pull1D
Entries 93
Mean −0.008591
Std Dev 1.144
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

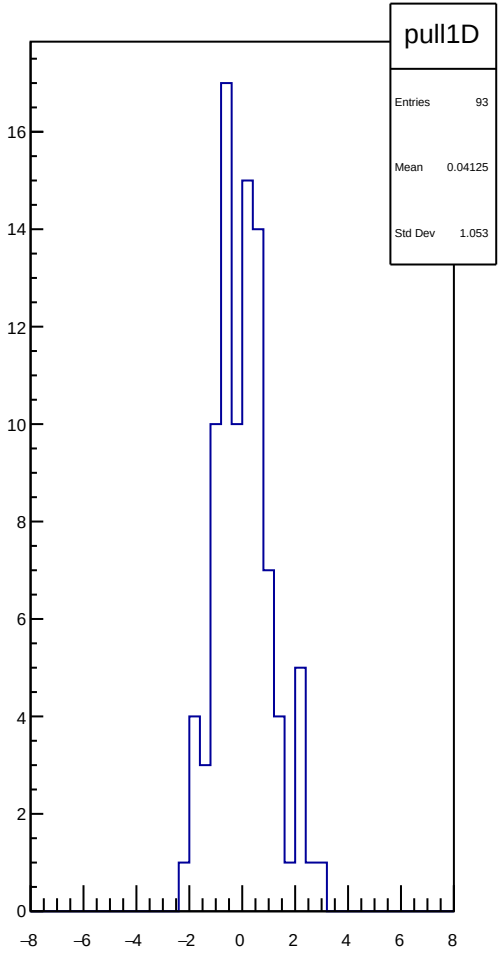

asym_us_dd_rms vs run
χ^2 / ndf 7021 / 92
p0 1443 ± 1.072
1800
1700
1600
1500
1400
1300

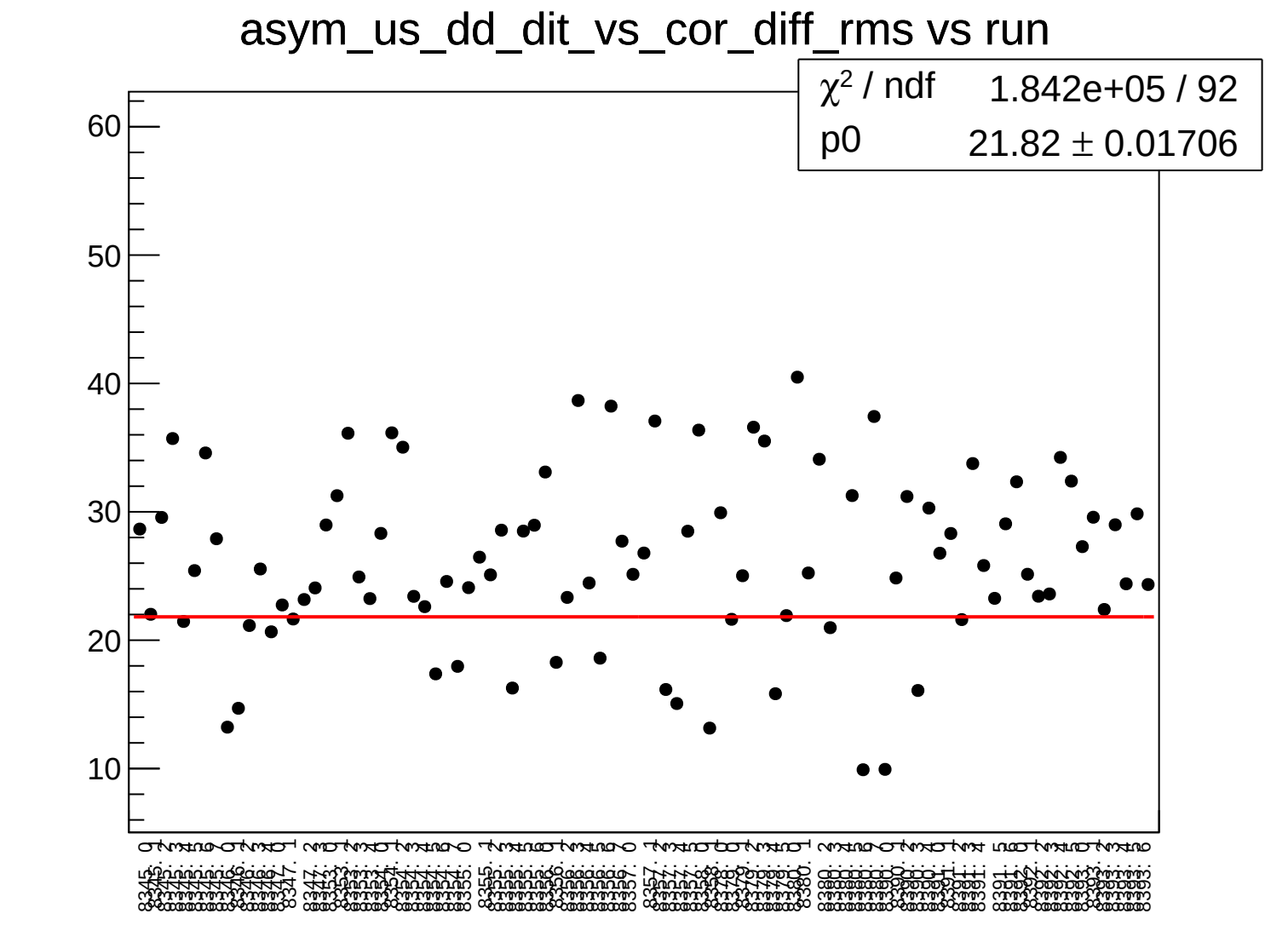

asym_us_dd_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 113.8 / 92
p0 −5.751e−14 ± 1.323e−13
pull
Entries 93
Mean 16.5
Std Dev 44.32

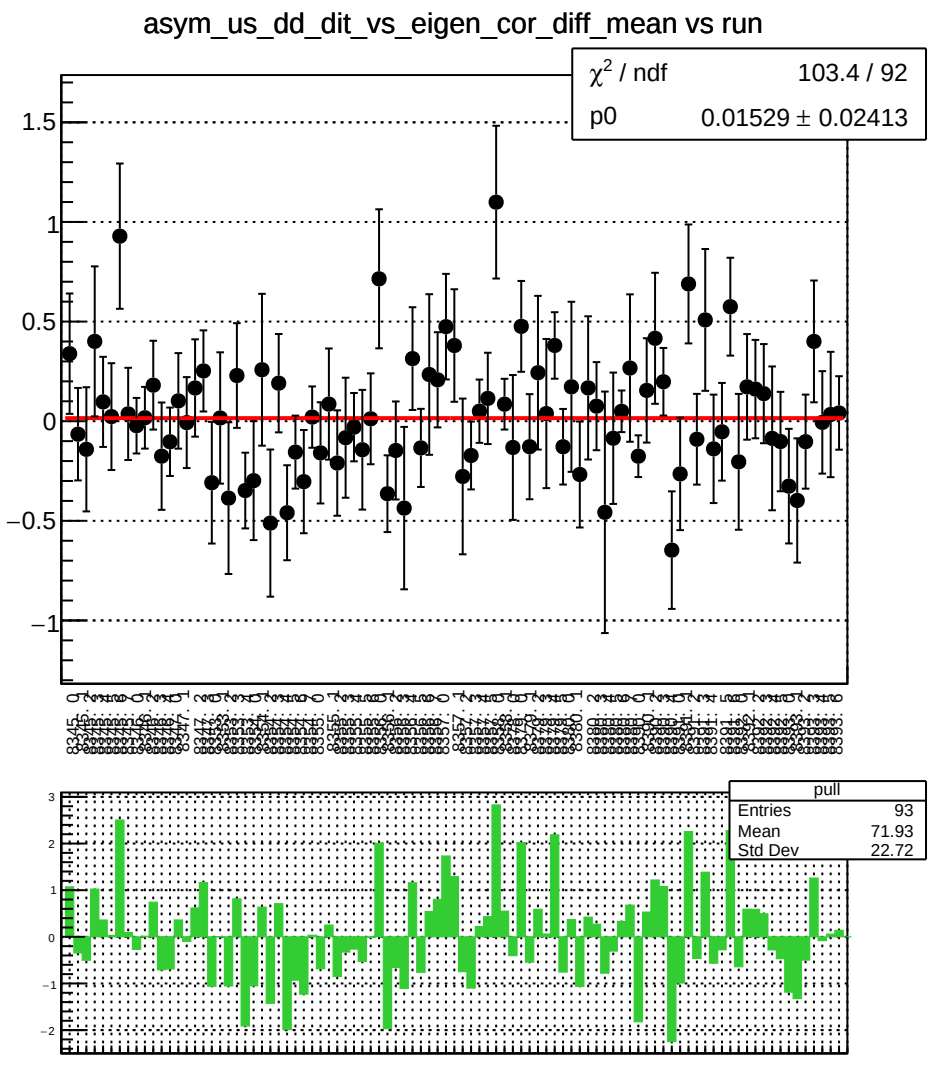

pull1D
Entries 93
Mean 0.03981
Std Dev 1.106

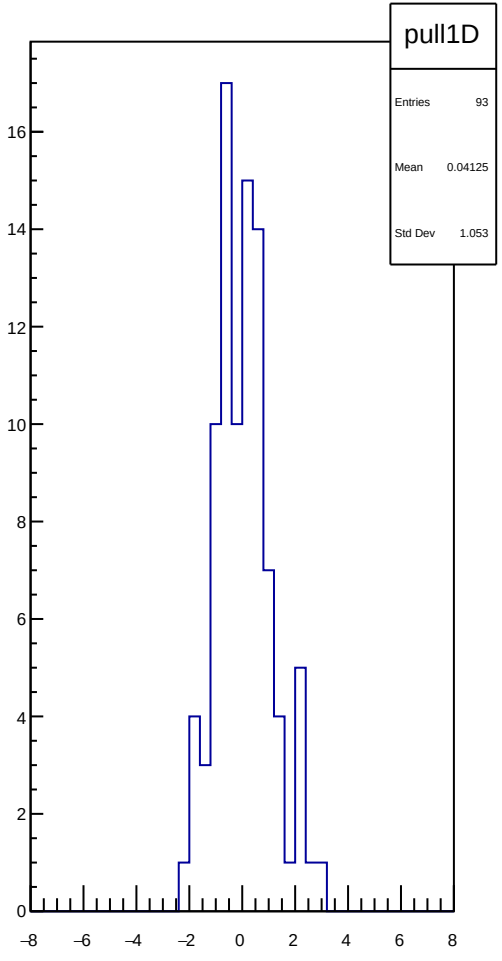

asym_us_dd_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.513e+05 / 92
p0 1.011e−10 ± 9.356e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

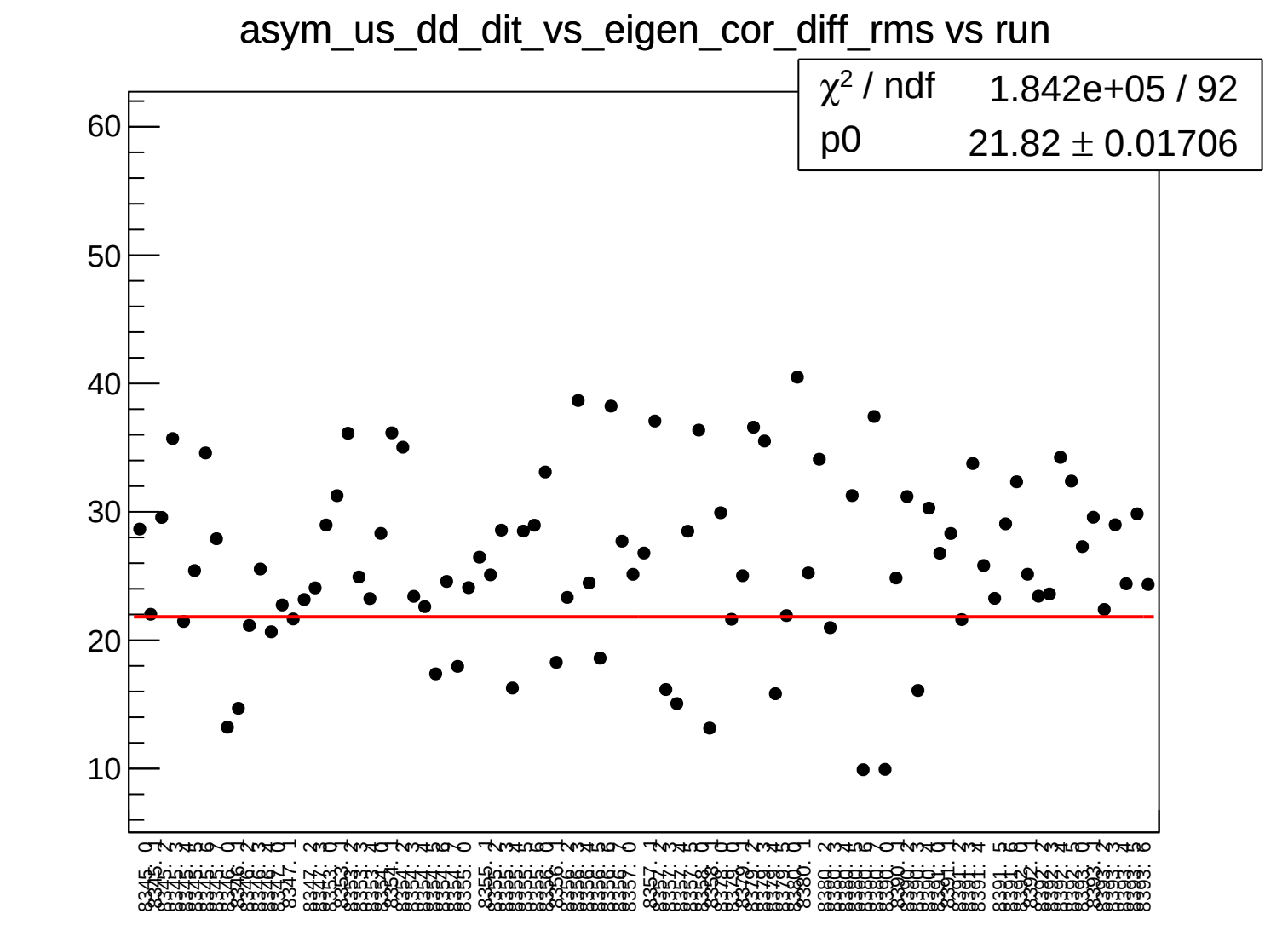

asym_us_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 103.4 / 92
p0 0.01529 ± 0.02413
pull
Entries 93
Mean 71.93
Std Dev 22.72

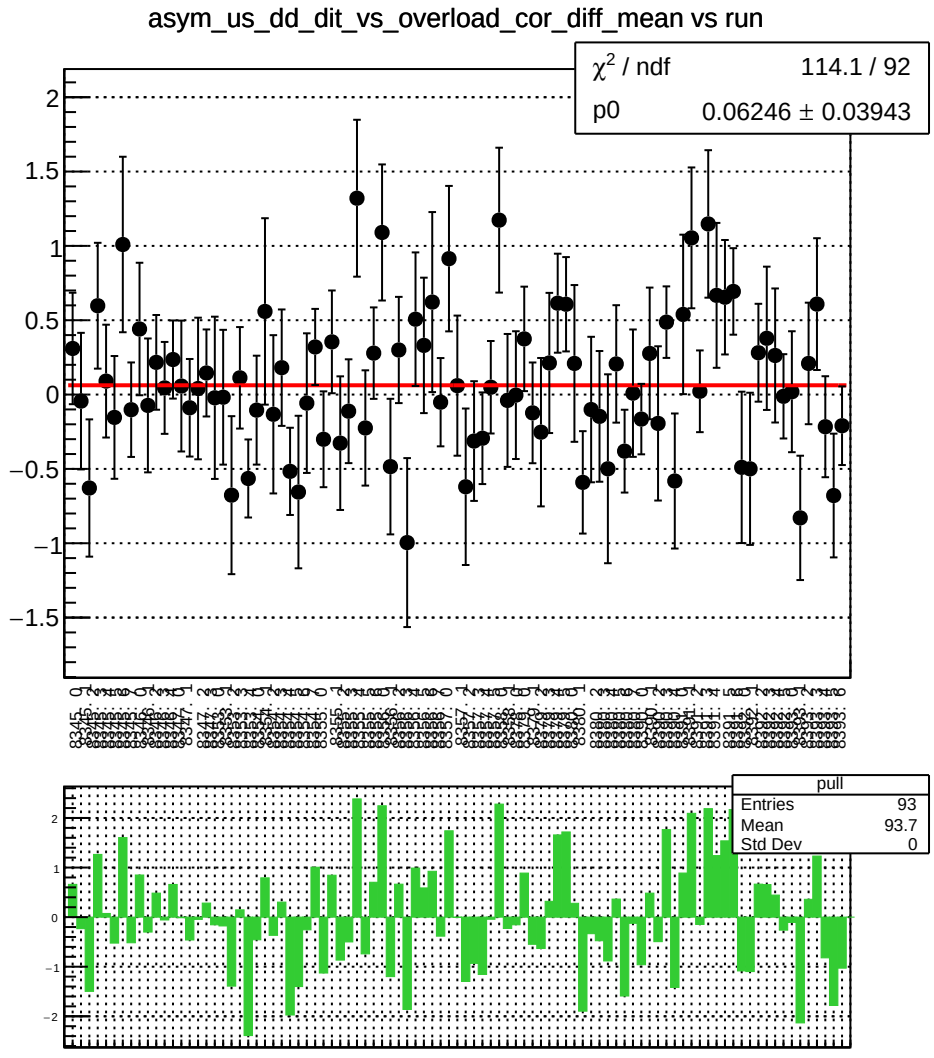

pull1D
Entries 93
Mean 0.04125
Std Dev 1.053

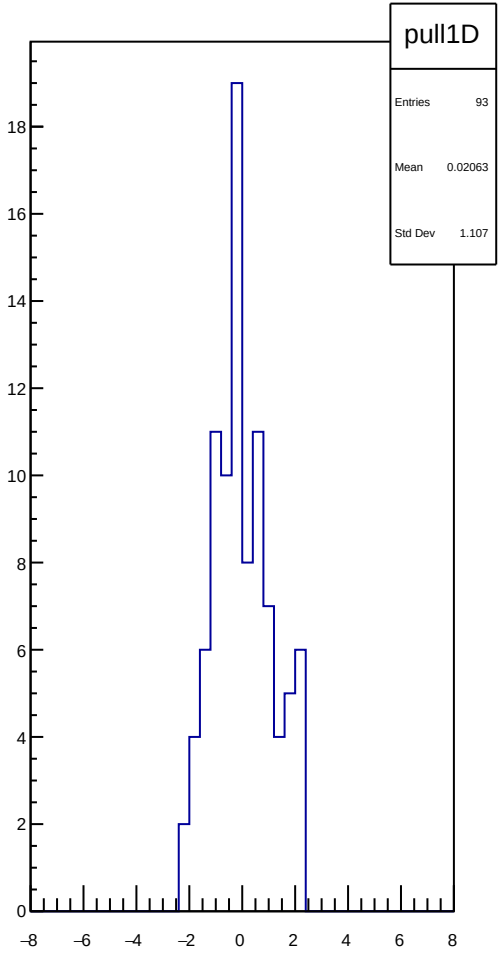

asym_us_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.842e+05 / 92
p0 21.82 ± 0.01706
60
50
40
30
20
10

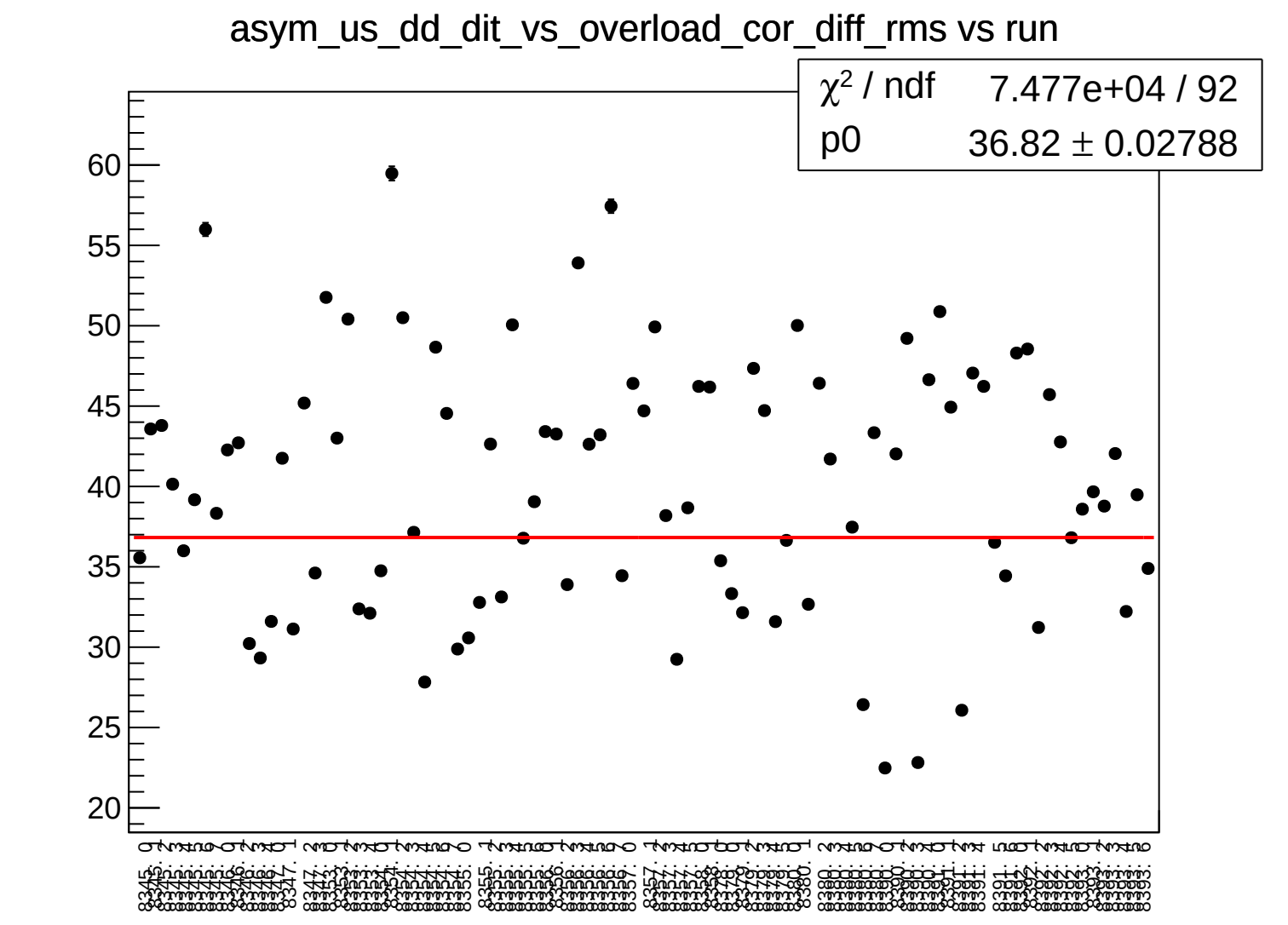

asym_us_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.4 / 92
p0 0.01529 ± 0.02413
pull
Entries 93
Mean 71.93
Std Dev 22.72

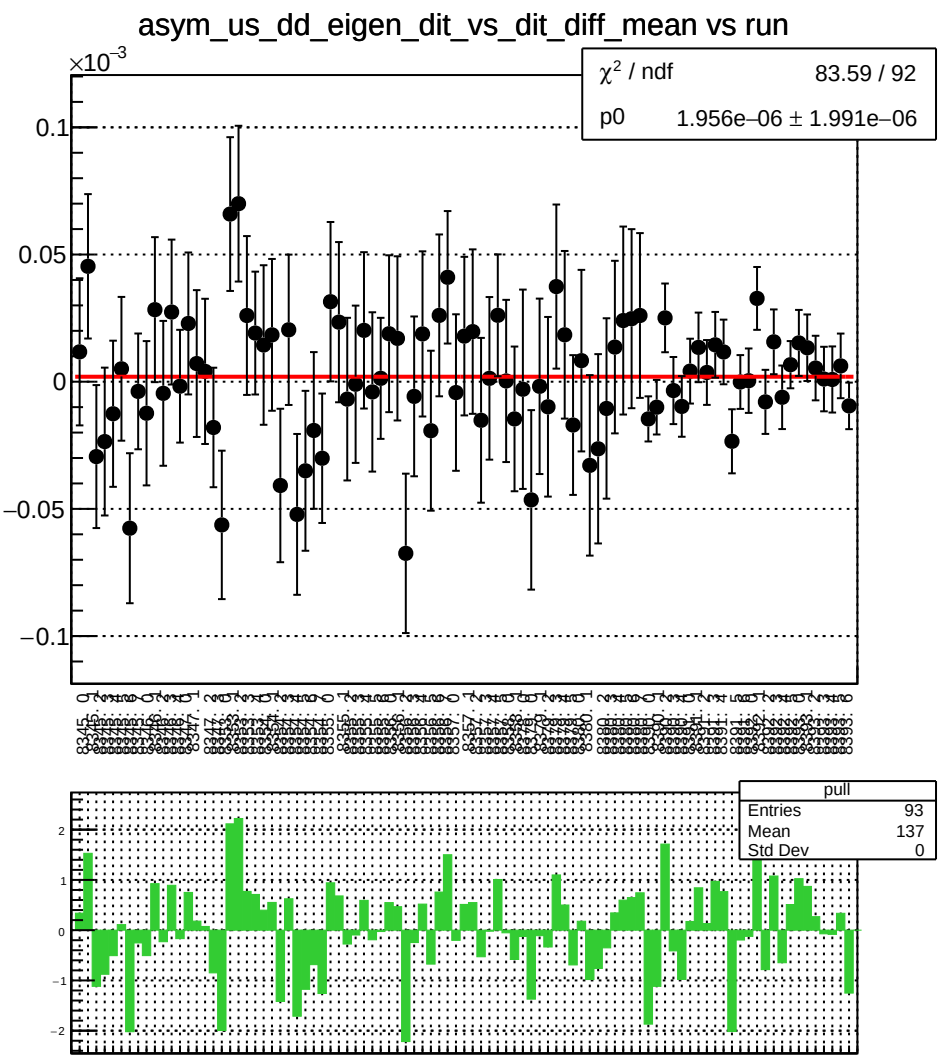

pull1D
Entries 93
Mean 0.04125
Std Dev 1.053

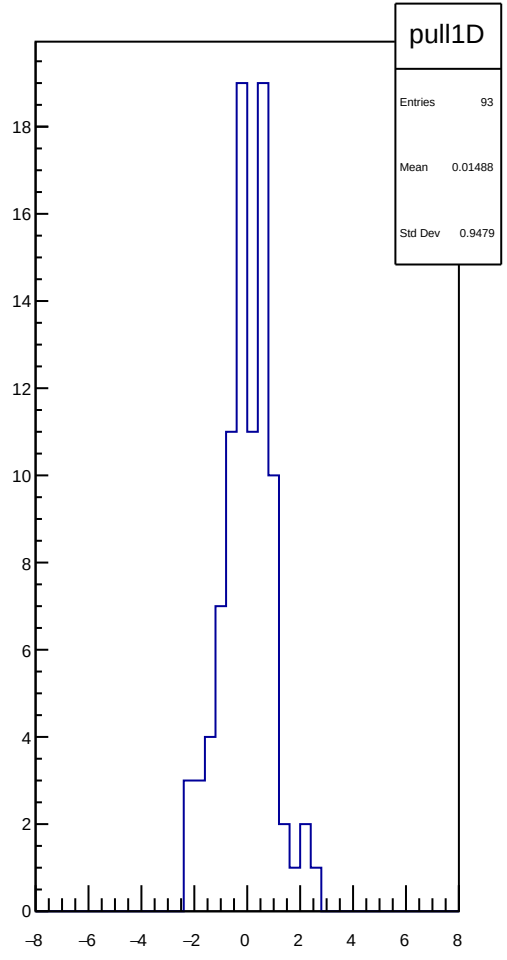

asym_us_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.842e+05 / 92
p0 21.82 ± 0.01706
60
50
40
30
20
10

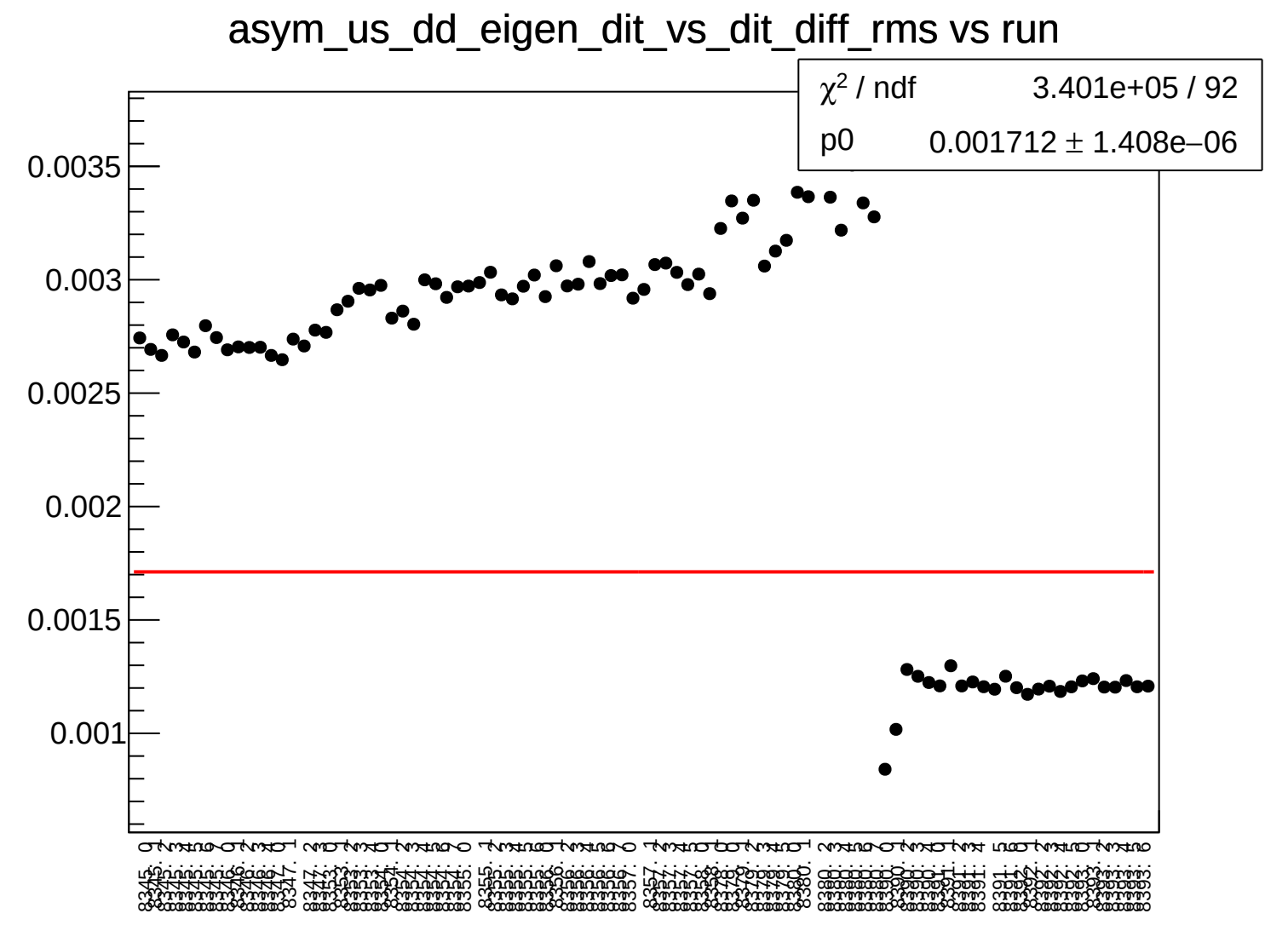

asym_us_dd_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 114.1 / 92
p0 0.06246 ± 0.03943
pull
Entries 93
Mean 93.7
Std Dev 0

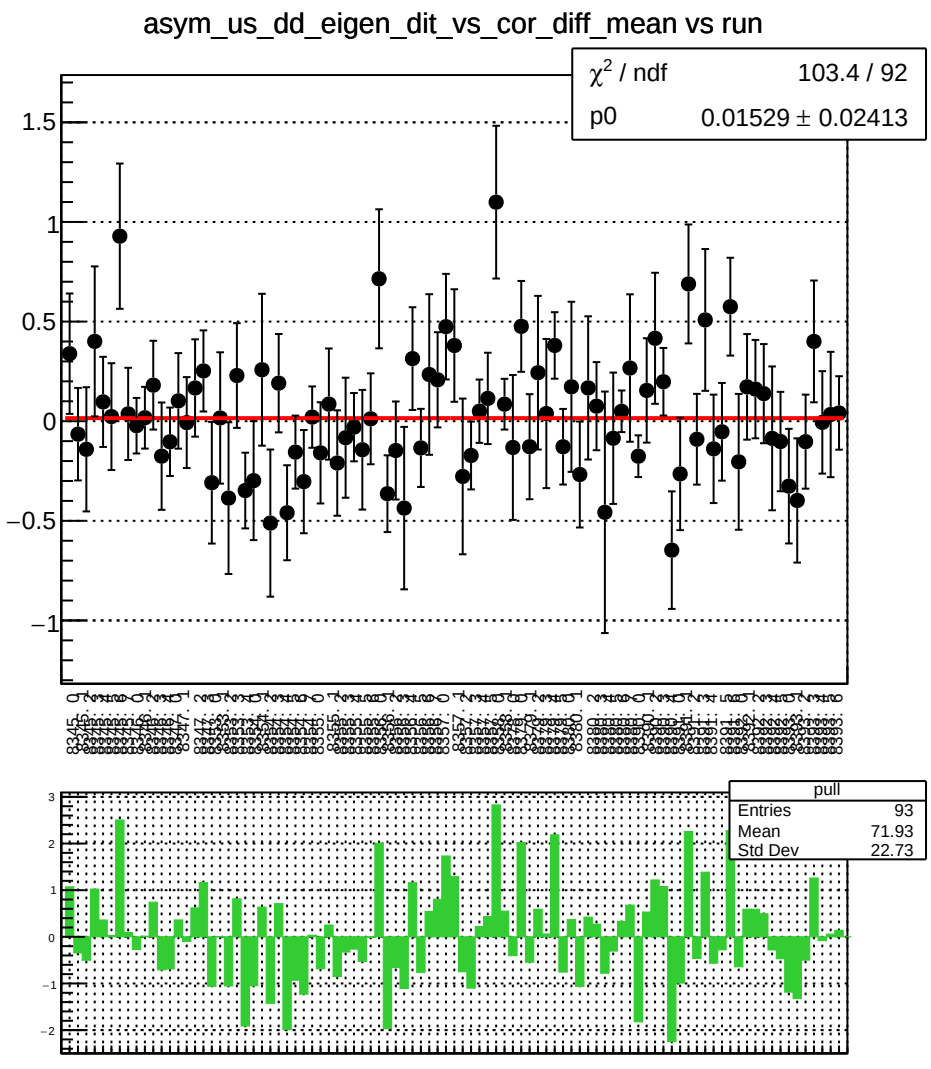

pull1D
Entries 93
Mean 0.02063
Std Dev 1.107

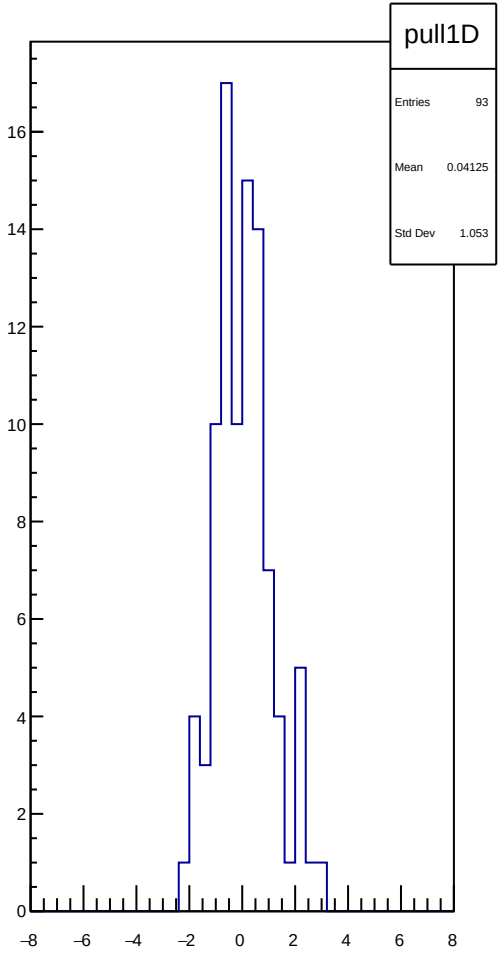

asym_us_dd_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 7.477e+04 / 92
p0 36.82 ± 0.02788
60
55
50
45
40
35
30
25
20

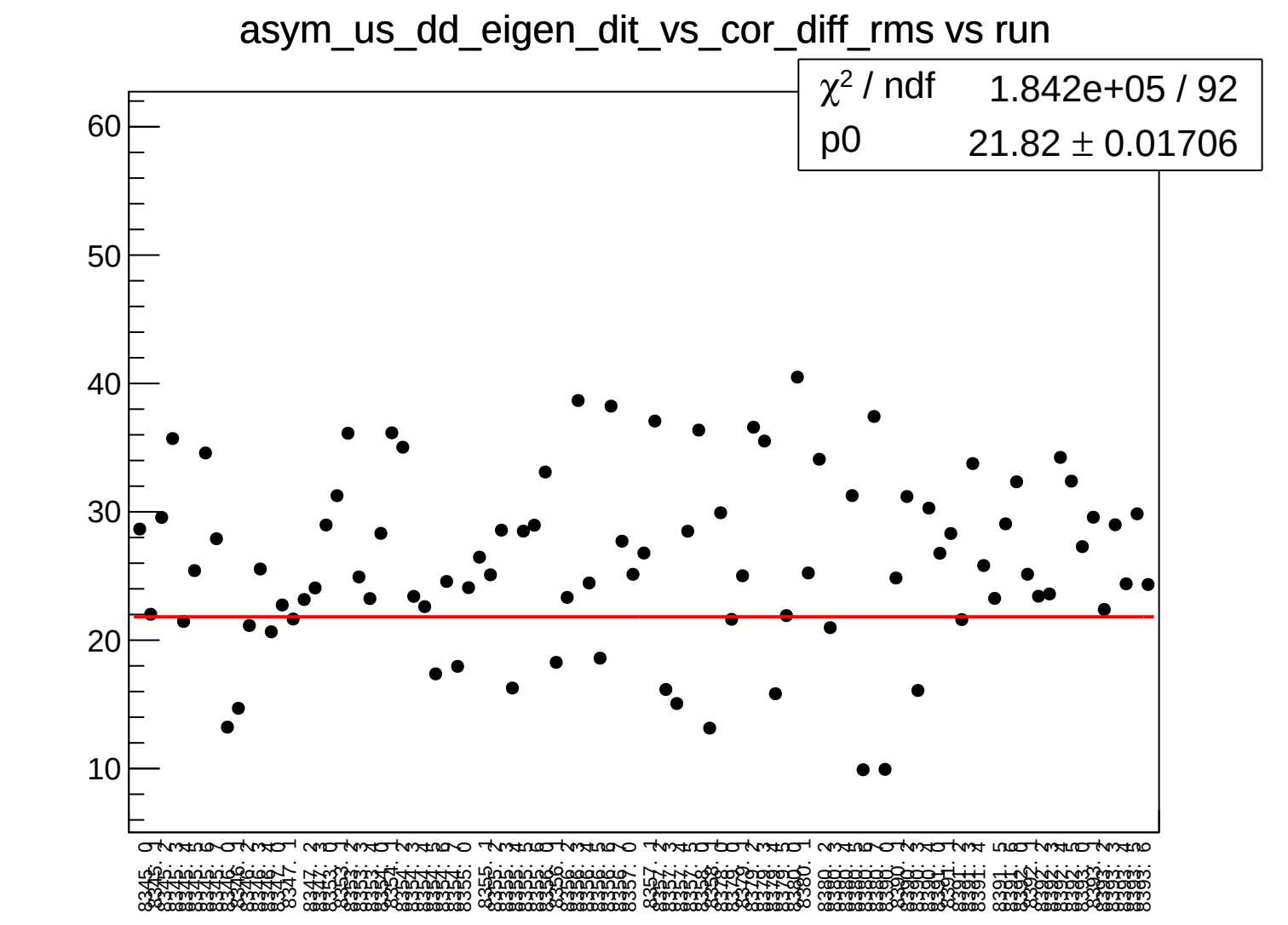

asym_us_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83.59 / 92
p0 1.956e−06 ± 1.991e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 93
Mean 137
Std Dev 0
2
1
0
−1
−2

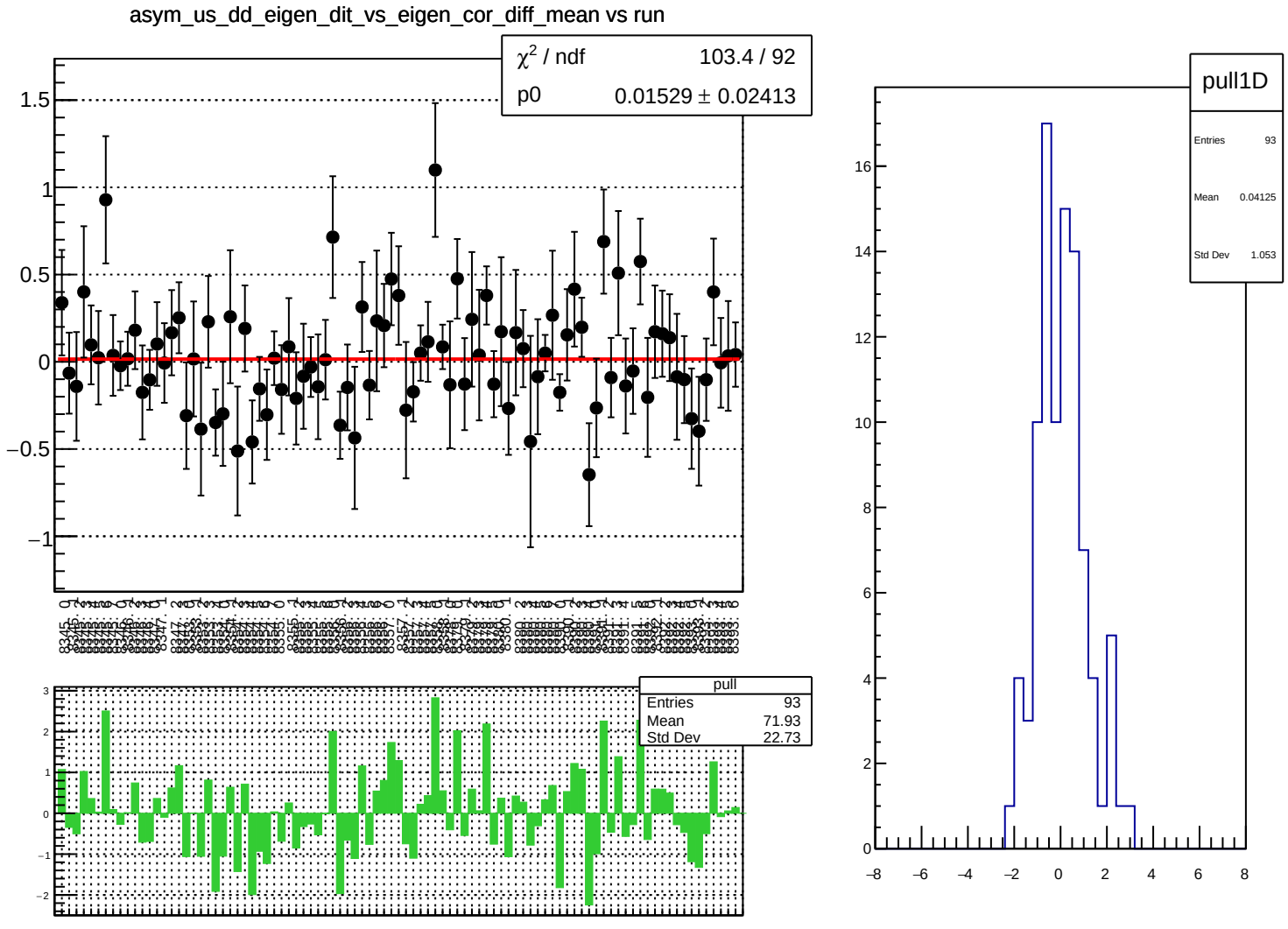

pull1D
Entries 93
Mean 0.01488
Std Dev 0.9479
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

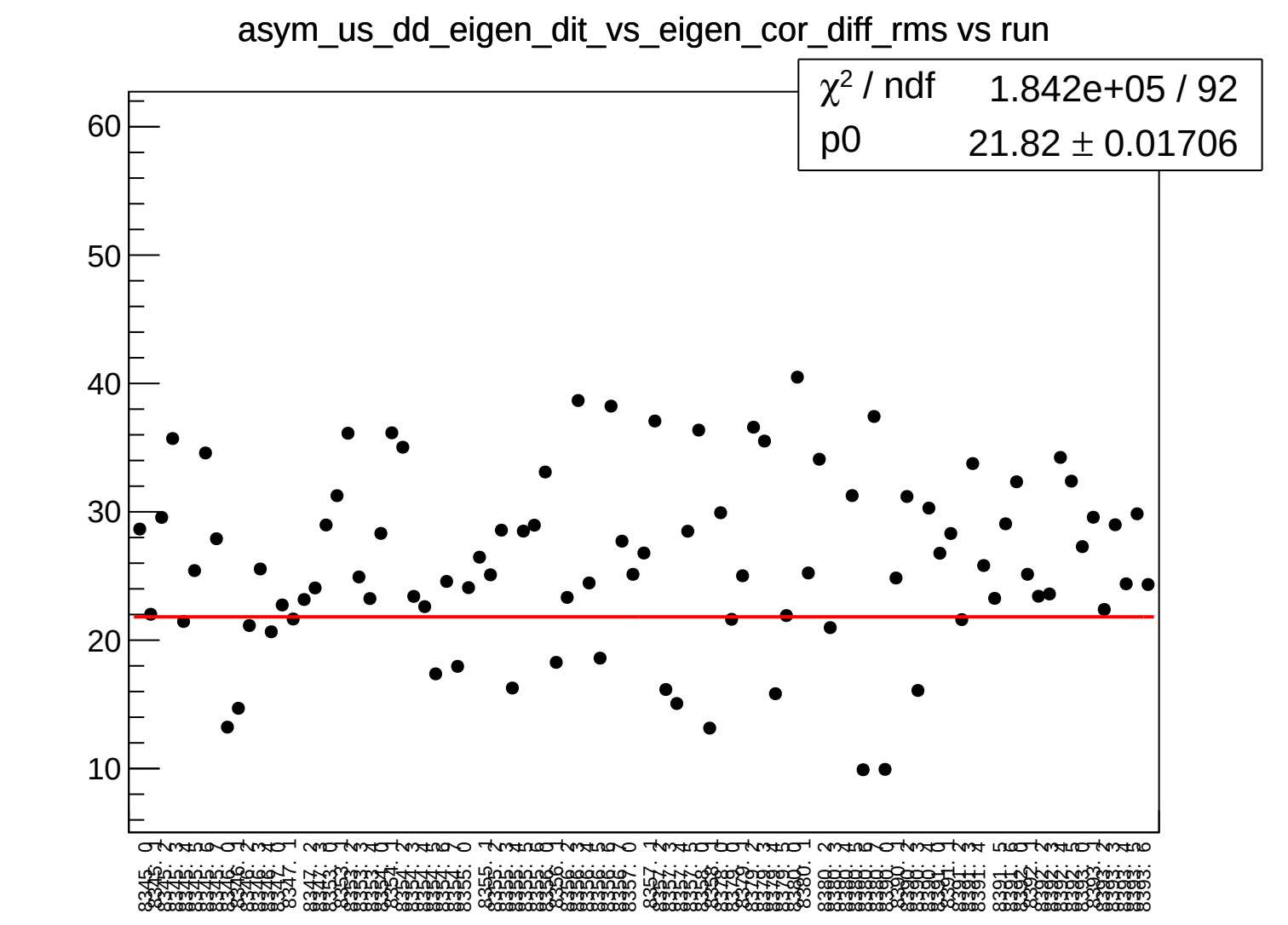

asym_us_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.401e+05 / 92
p0 0.001712 ± 1.408e−06
0.0035
0.003
0.0025
0.002
0.0015
0.001

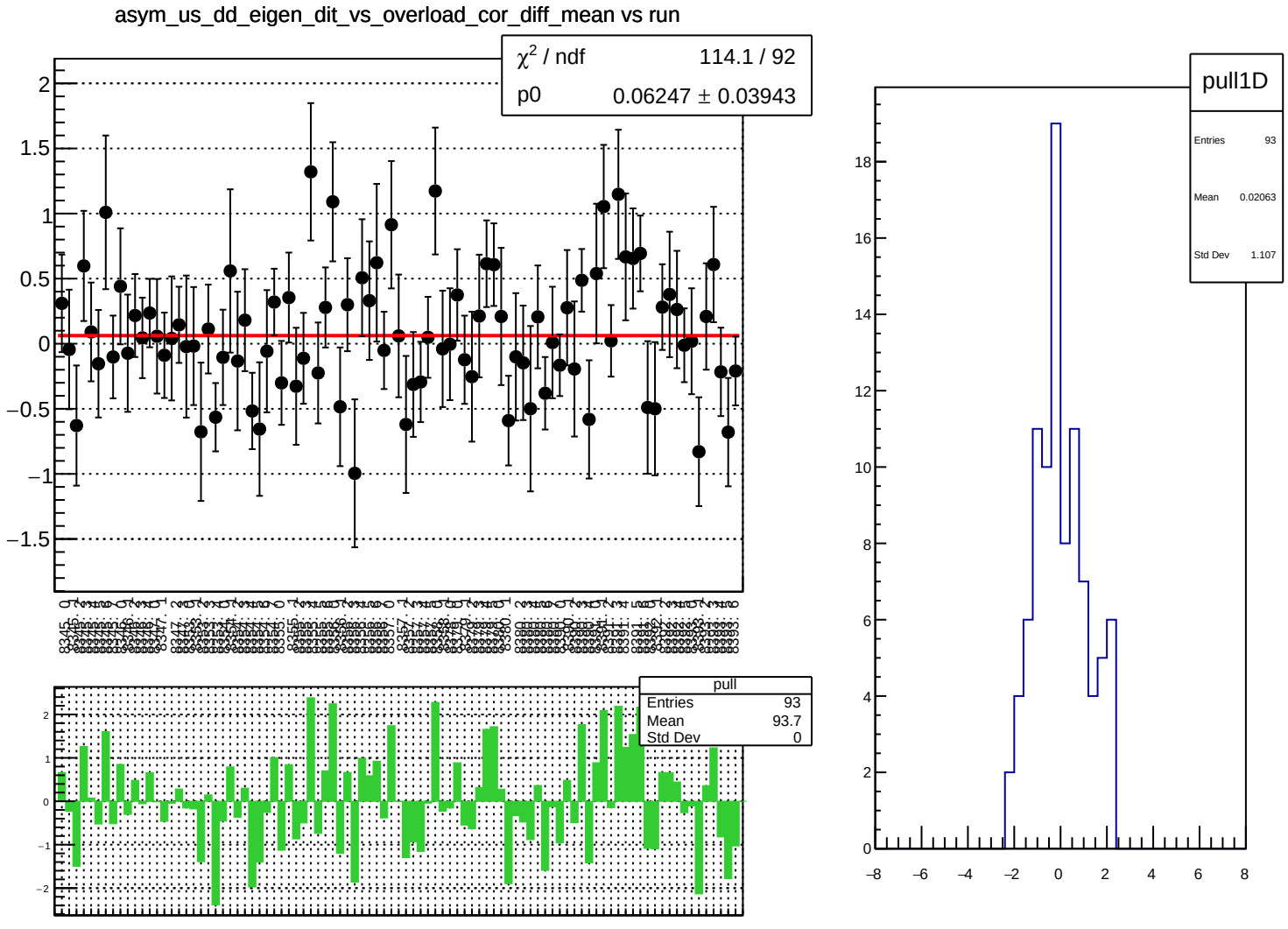

asym_us_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 103.4 / 92
p0 0.01529 ± 0.02413
pull
Entries 93
Mean 71.93
Std Dev 22.73

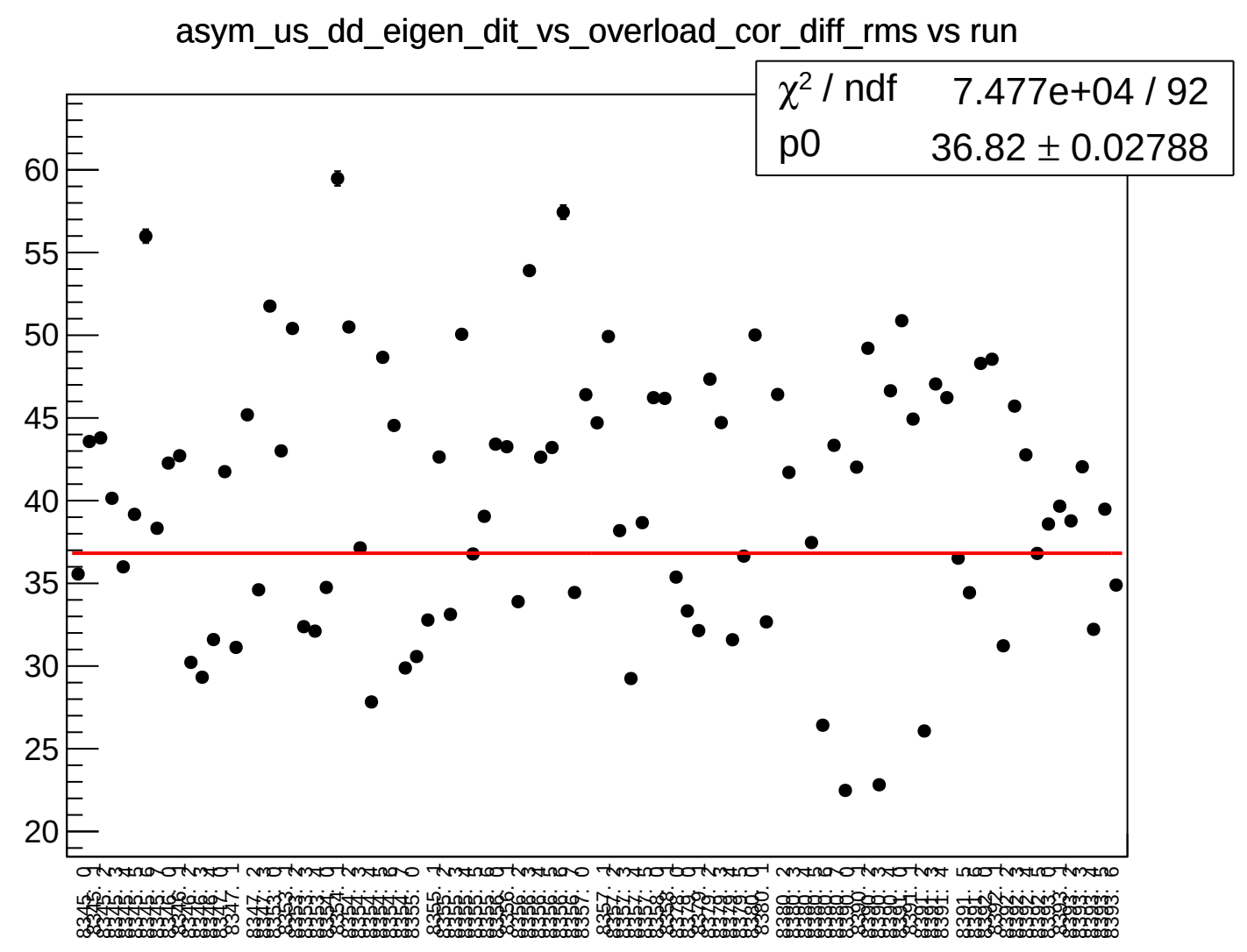

pull1D
Entries 93
Mean 0.04125
Std Dev 1.053

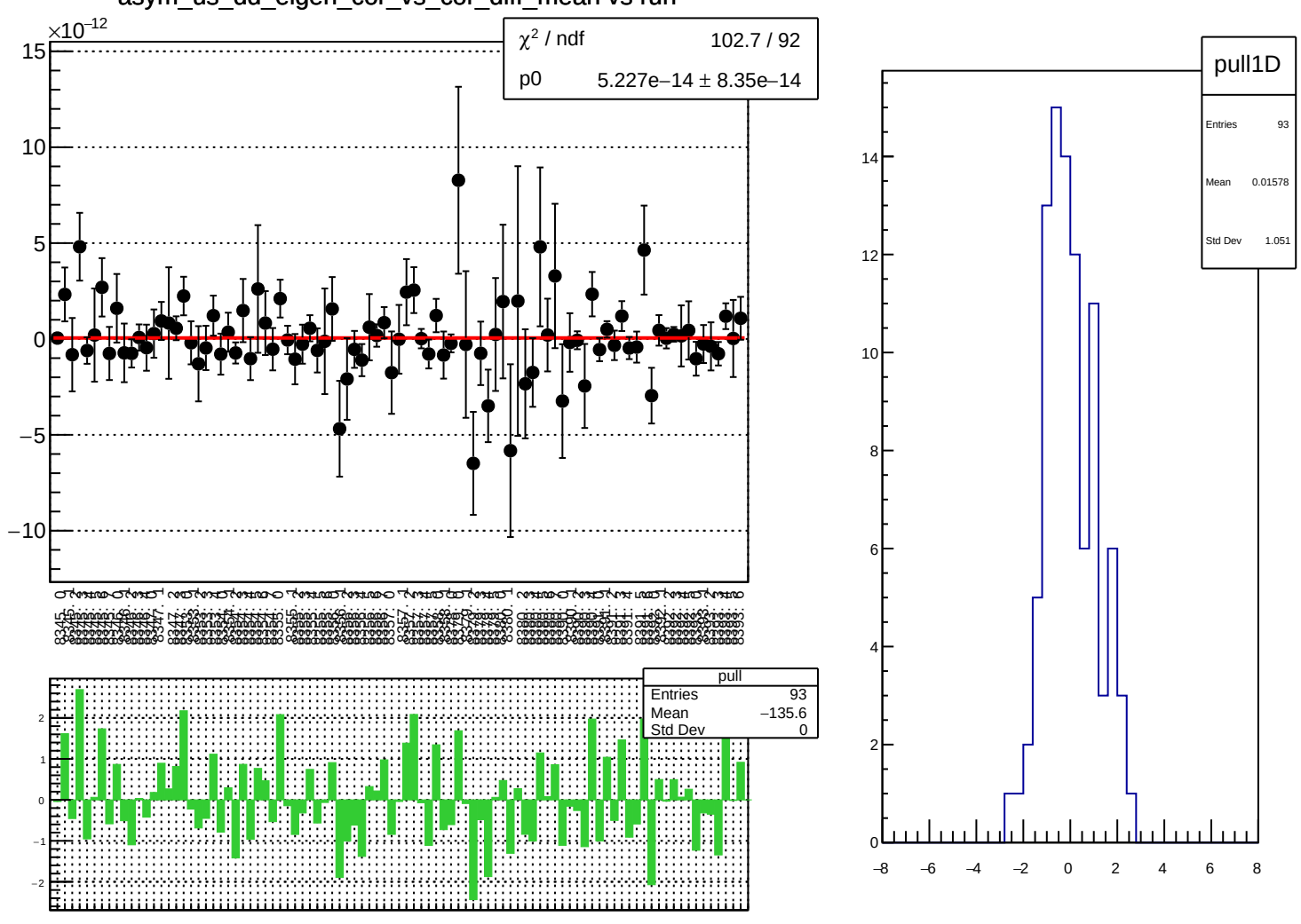

asym_us_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.842e+05 / 92
p0 21.82 ± 0.01706
60
50
40
30
20
10

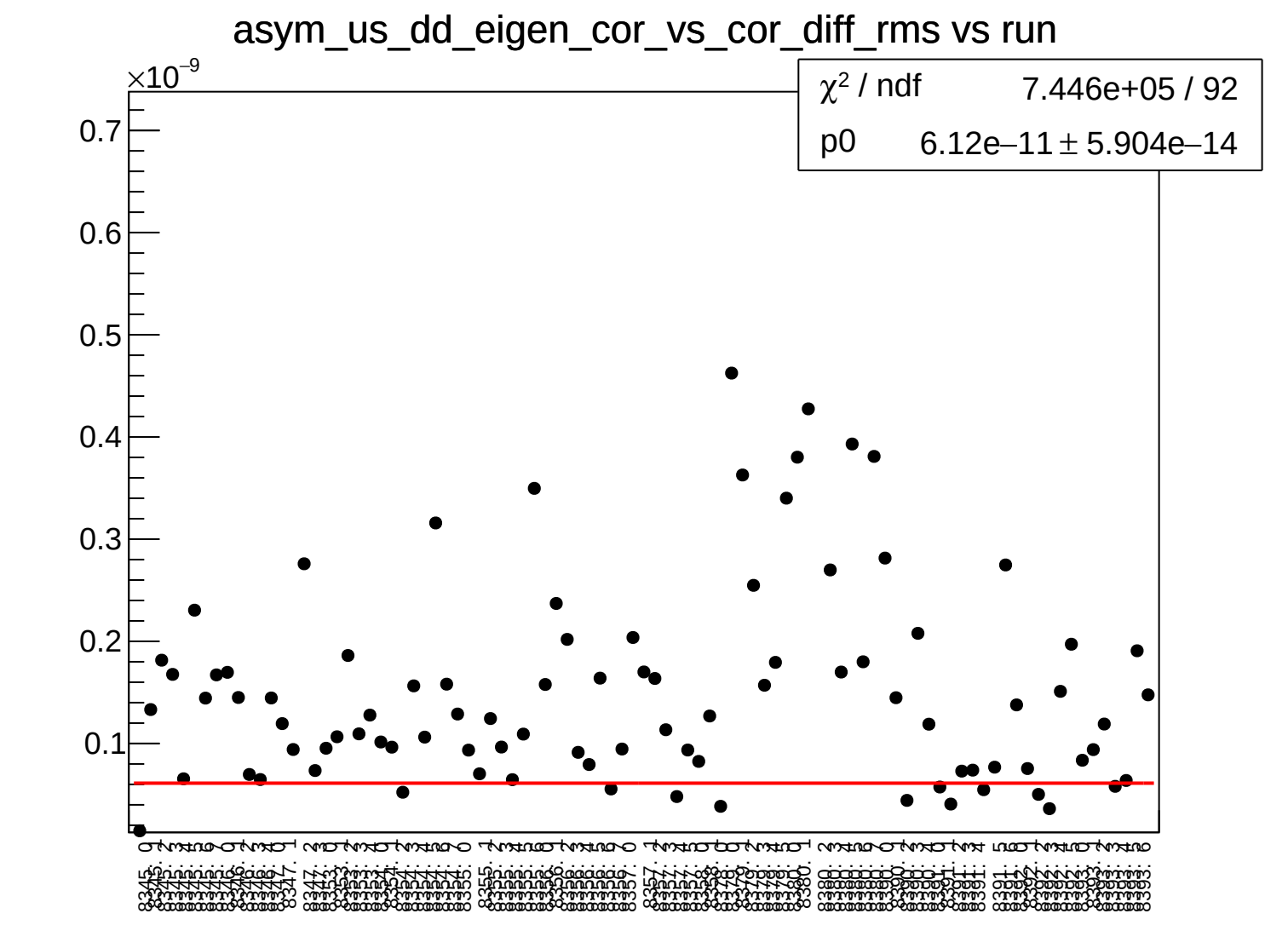

asym_us_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.4 / 92
p0 0.01529 ± 0.02413
pull
Entries 93
Mean 71.93
Std Dev 22.73
pull1D
Entries 93
Mean 0.04125
Std Dev 1.053

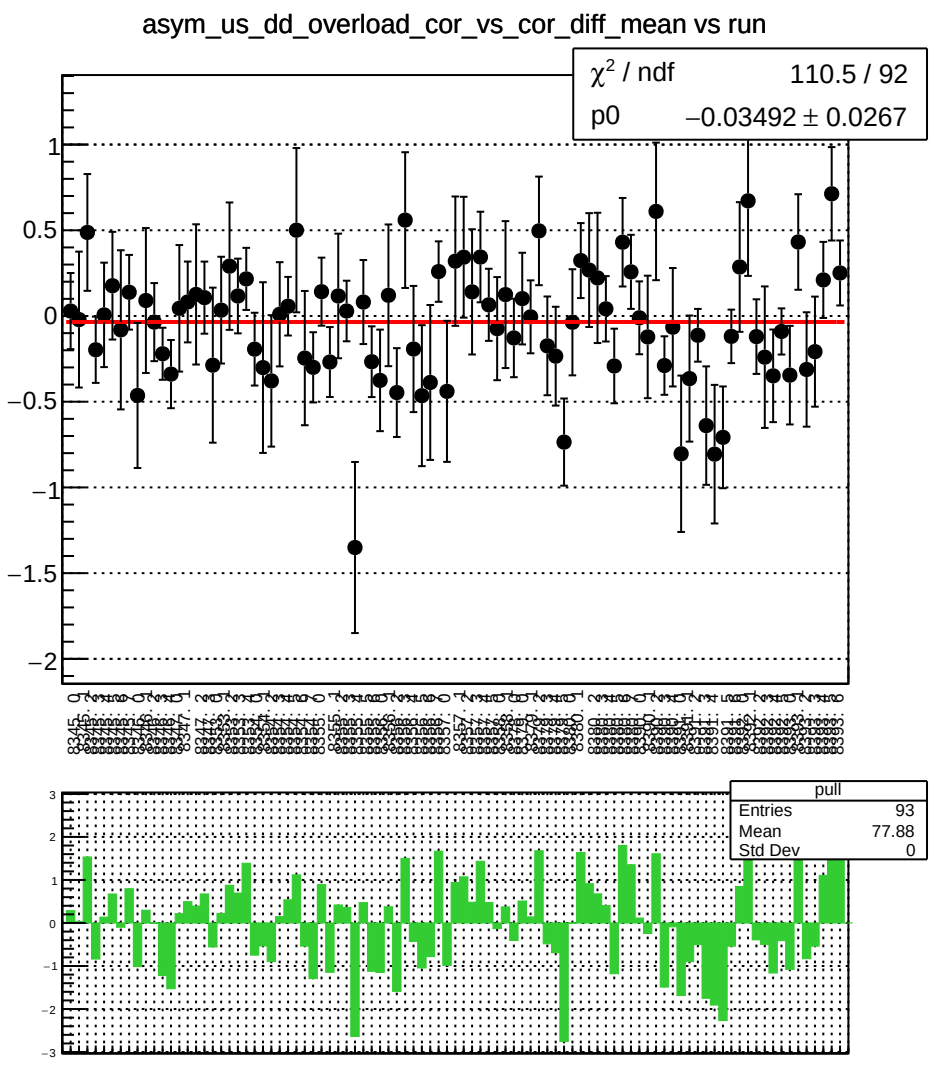

asym_us_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.842e+05 / 92
p0 21.82 ± 0.01706
60
50
40
30
20
10

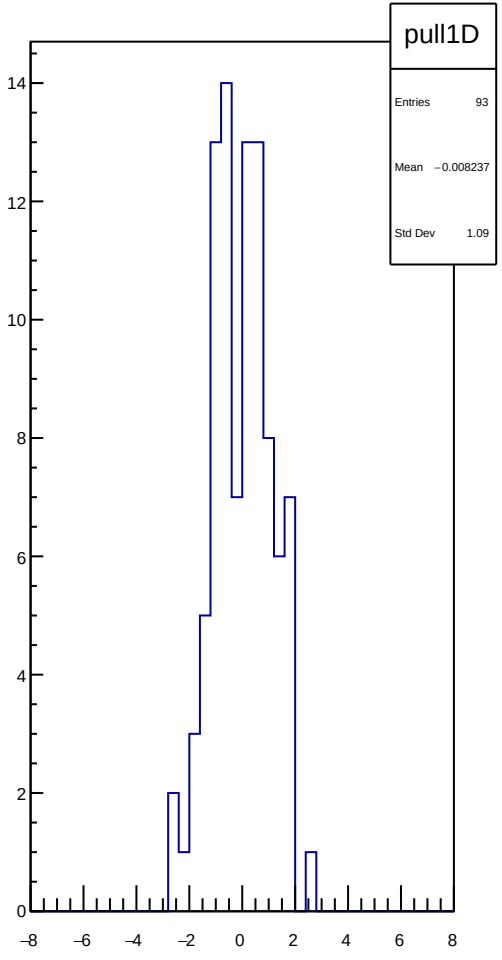

asym_us_dd_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 114.1 / 92
p0 0.06247 ± 0.03943
pull
Entries 93
Mean 93.7
Std Dev 0
pull1D
Entries 93
Mean 0.02063
Std Dev 1.107

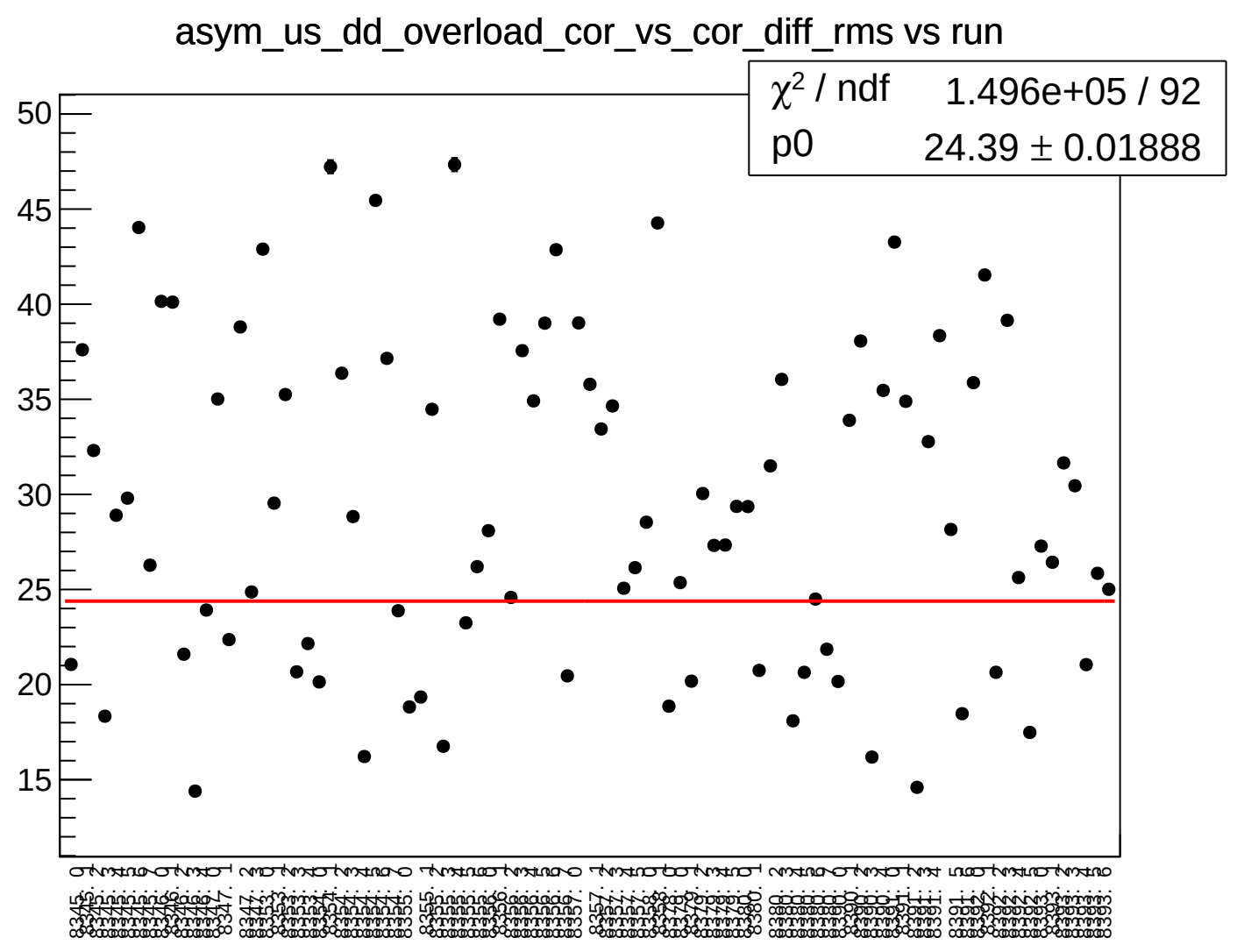

asym_us_dd_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 7.477e+04 / 92
p0 36.82 ± 0.02788
60
55
50
45
40
35
30
25
20

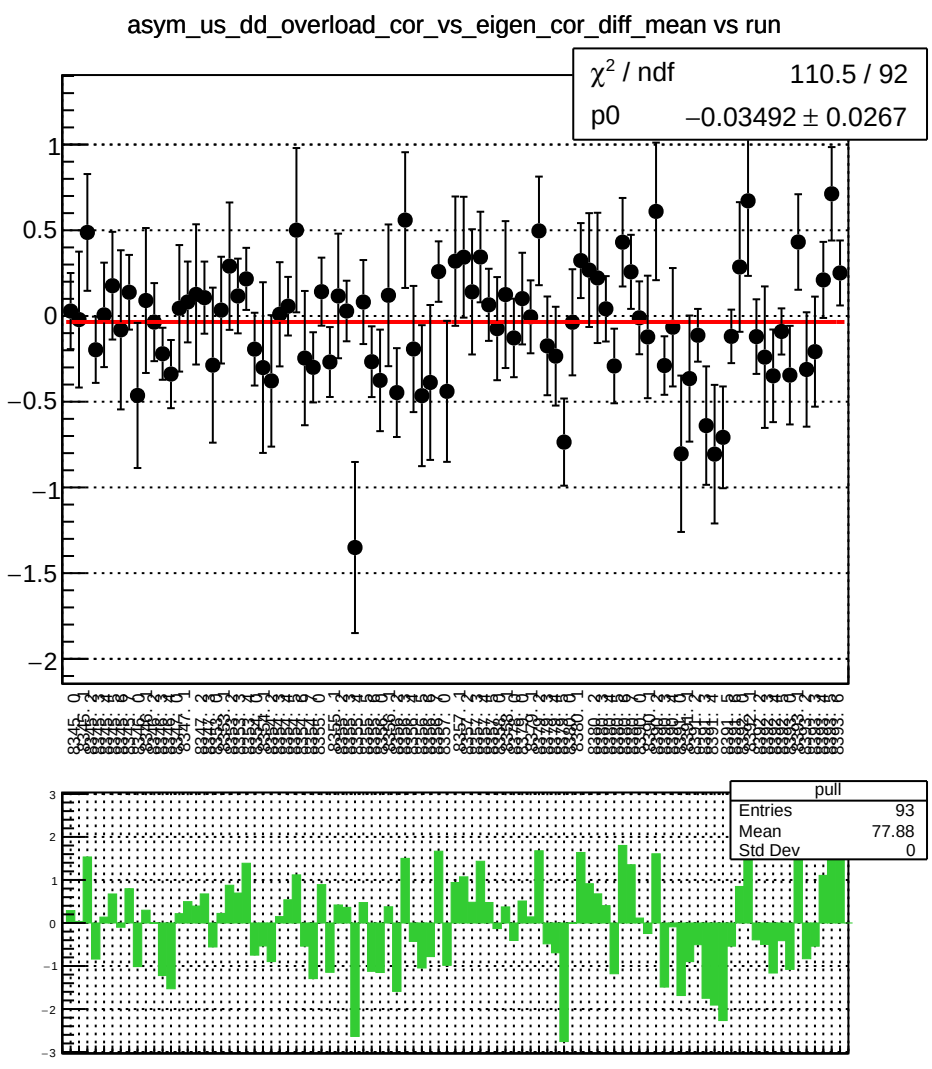

asym_us_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 102.7 / 92
p0 5.227e−14 ± 8.35e−14
15
10
5
0
−5
−10
pull
Entries 93
Mean −135.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.01578
Std Dev 1.051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

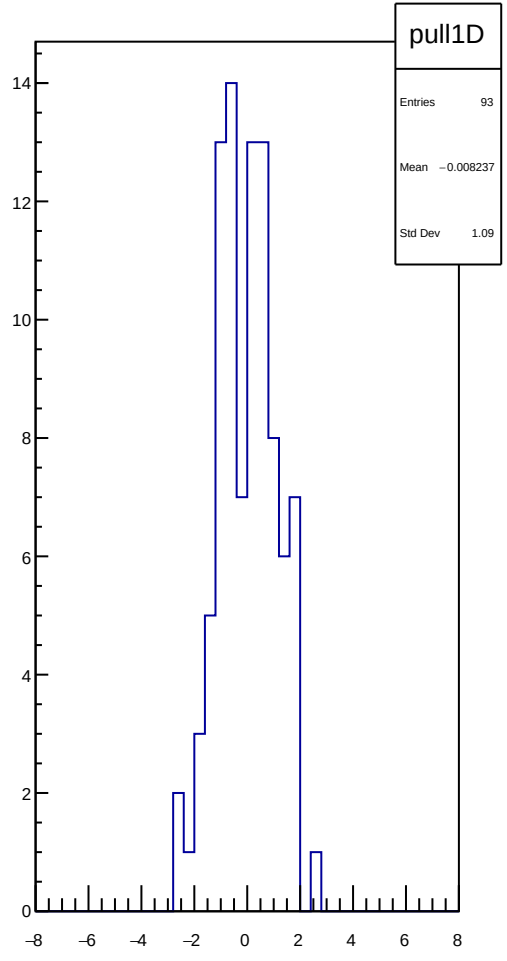

asym_us_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.446e+05 / 92
p0 6.12e−11 ± 5.904e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

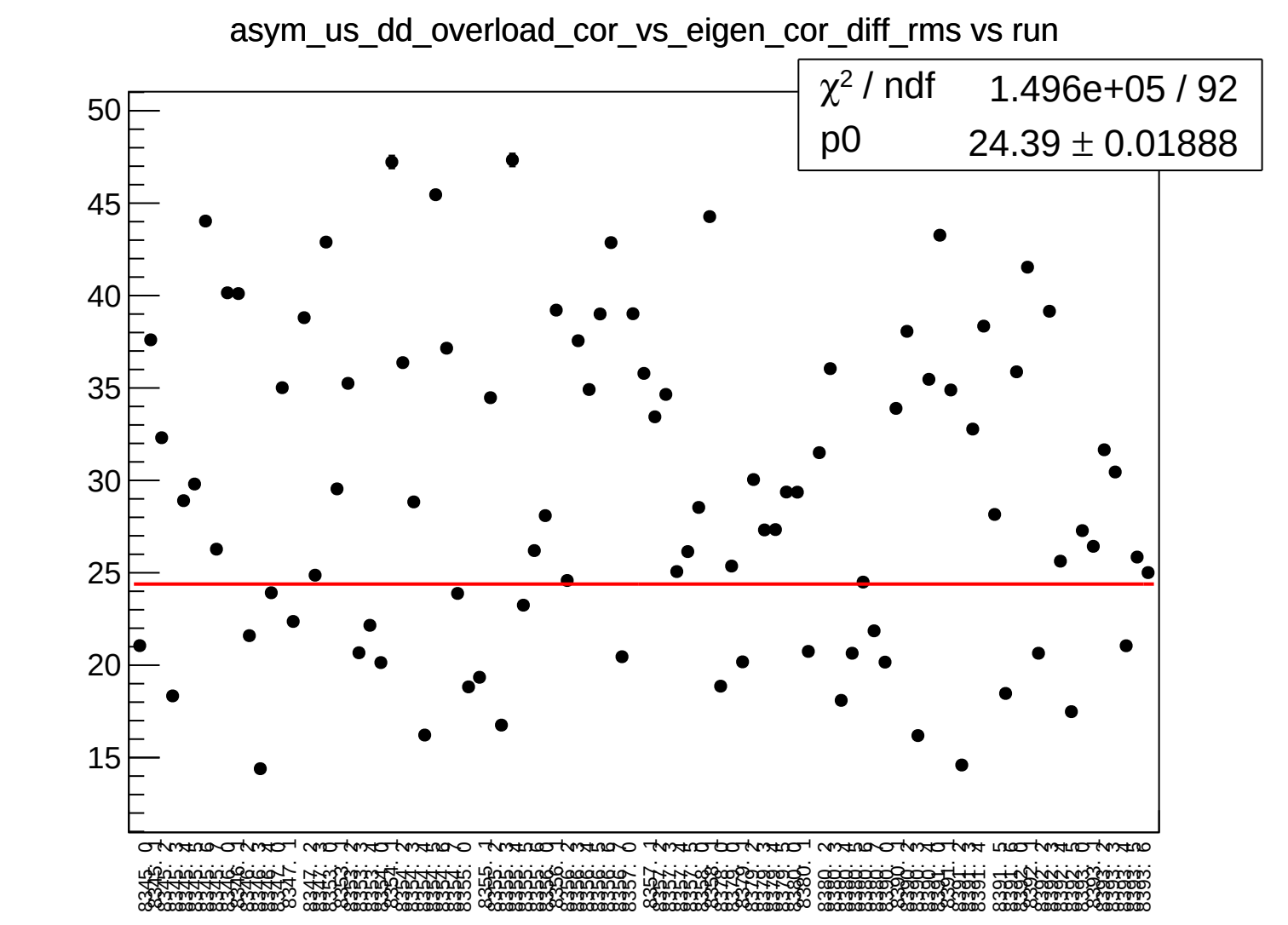

asym_us_dd_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 110.5 / 92
p0 −0.03492 ± 0.0267
pull
Entries 93
Mean 77.88
Std Dev 0

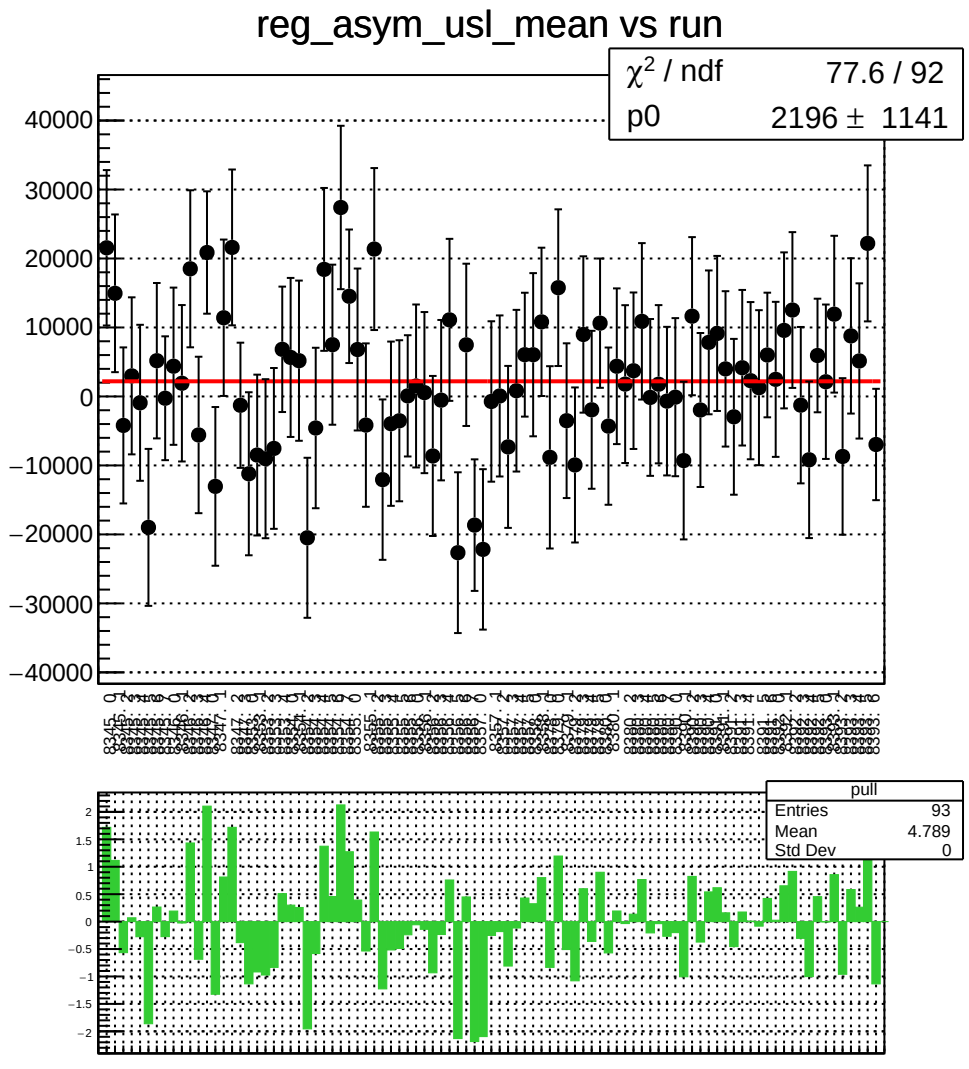

pull1D
Entries 93
Mean −0.008237
Std Dev 1.09

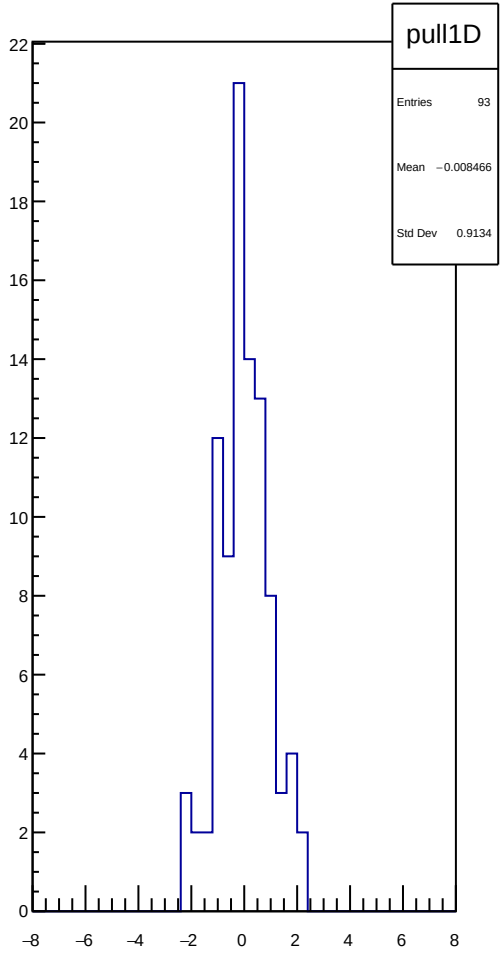

asym_us_dd_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.496e+05 / 92
p0 24.39 ± 0.01888
50
45
40
35
30
25
20
15

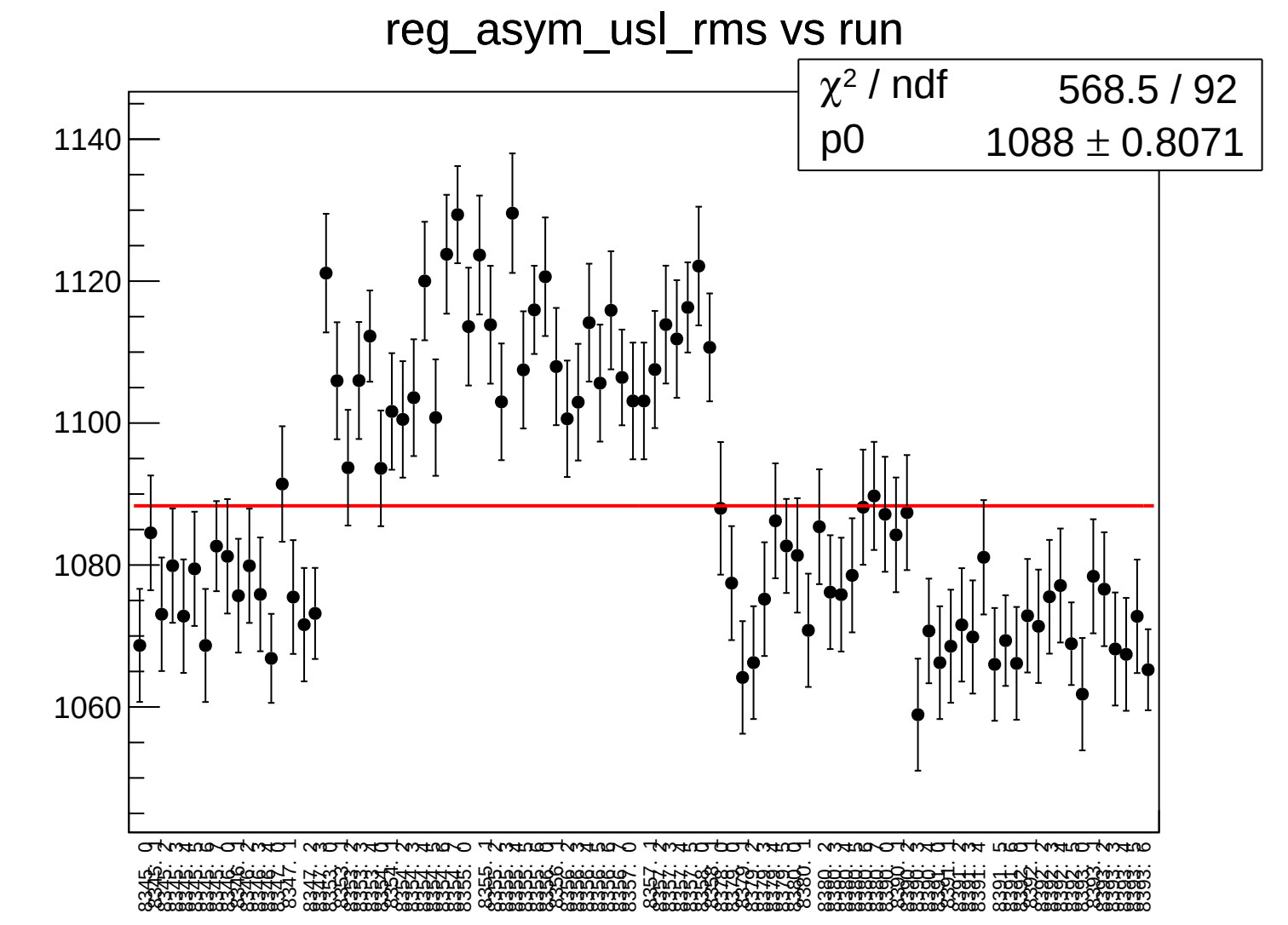

asym_us_dd_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 110.5 / 92
p0 −0.03492 ± 0.0267
pull
Entries 93
Mean 77.88
Std Dev 0

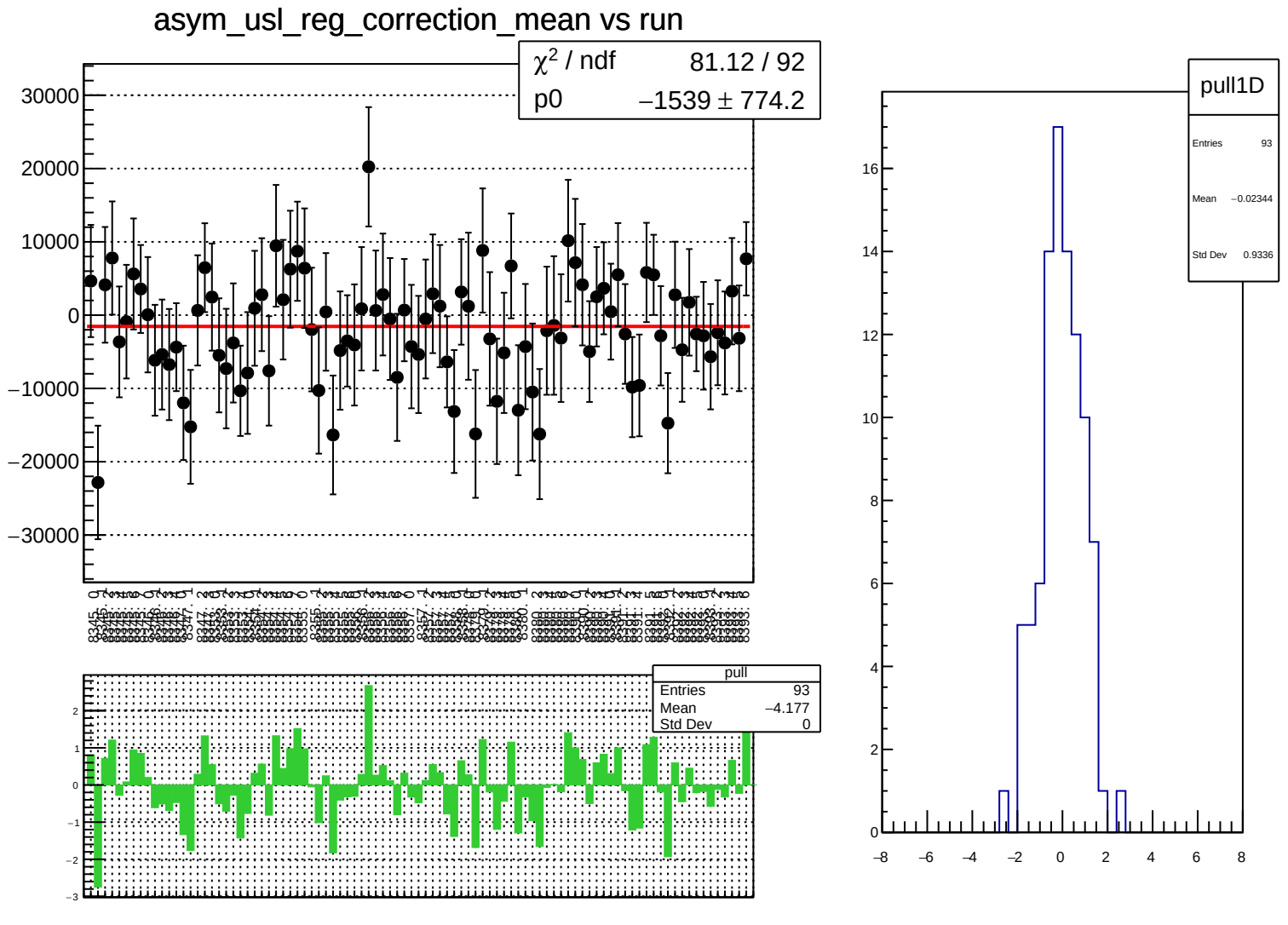

pull1D
Entries 93
Mean −0.008237
Std Dev 1.09

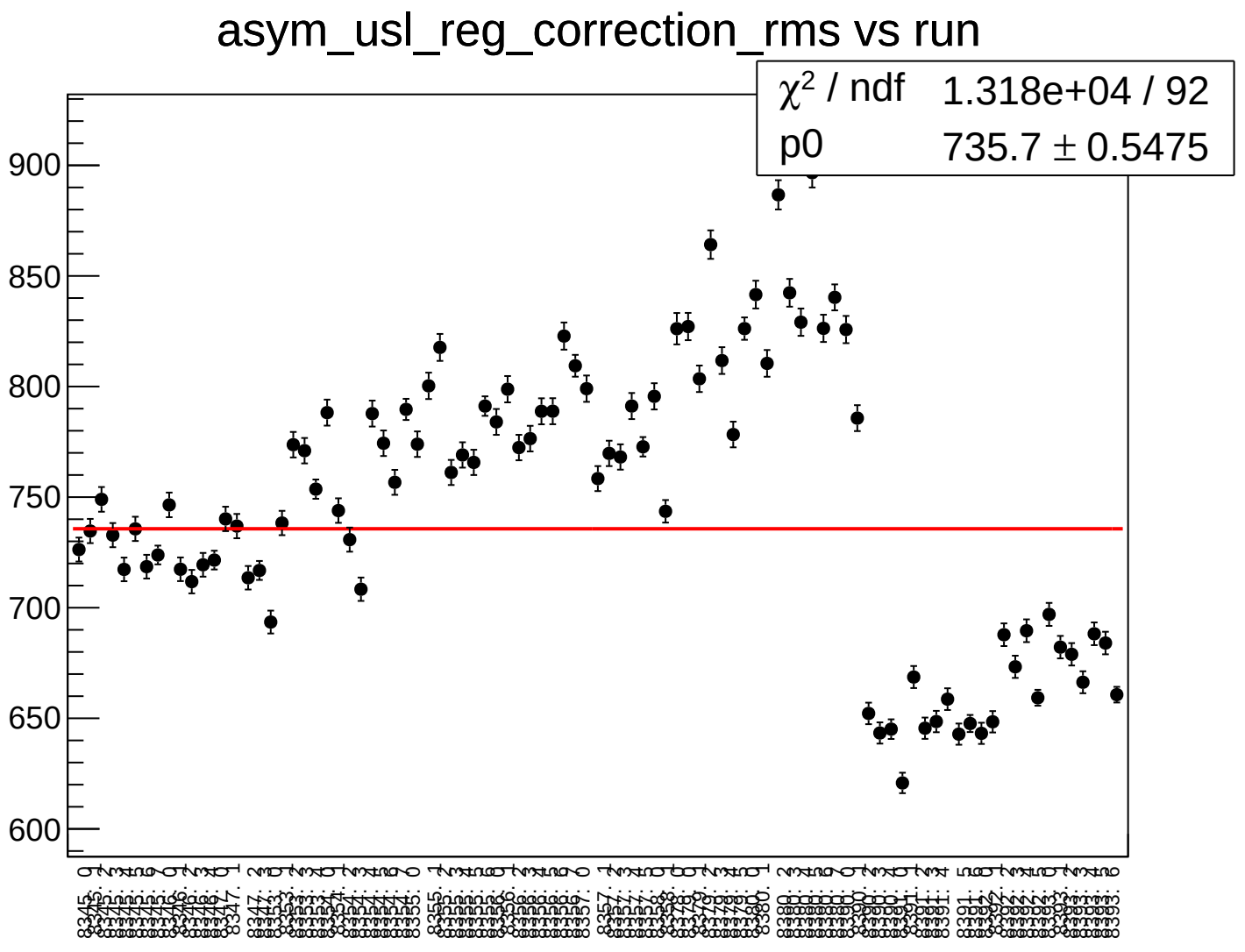

asym_us_dd_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.496e+05 / 92
p0 24.39 ± 0.01888
50
45
40
35
30
25
20
15

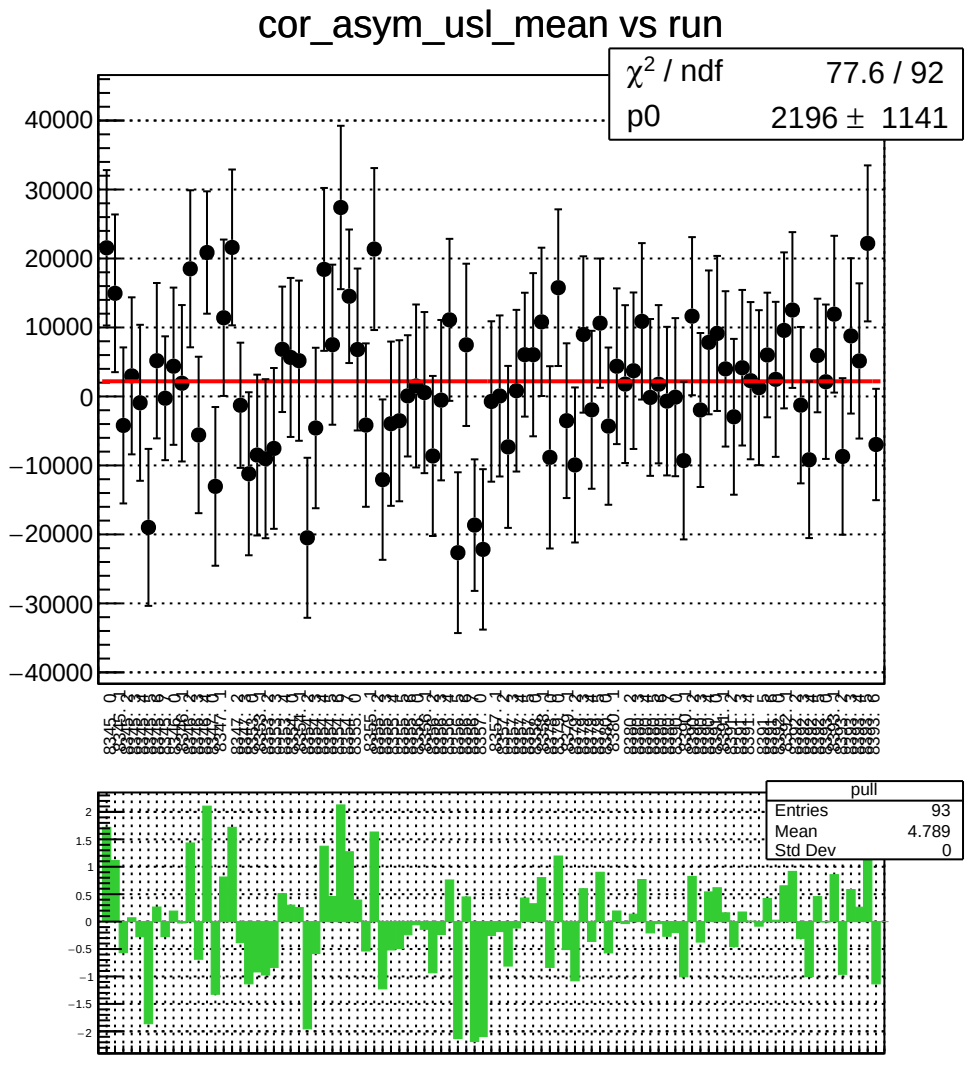

reg_asym_usl_mean vs run
χ² / ndf 77.6 / 92
p0 2196 ± 1141
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean 4.789
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

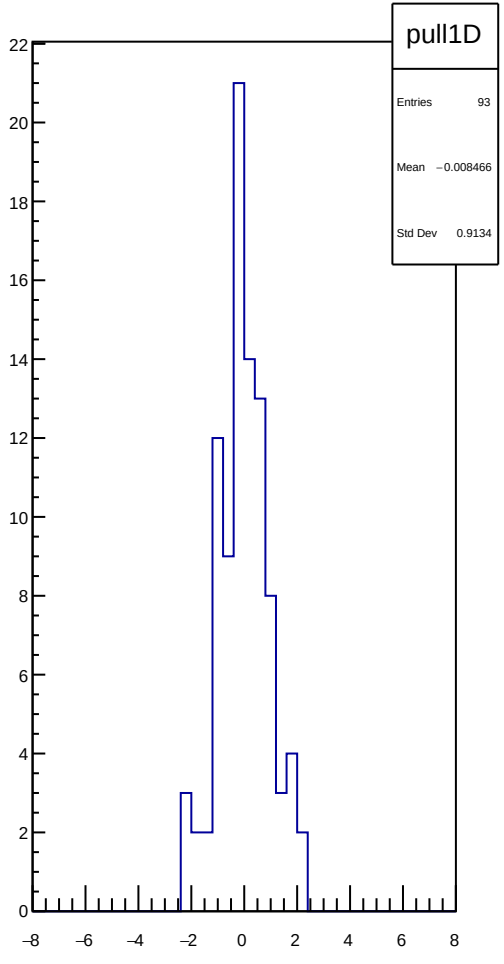

pull1D
Entries 93
Mean −0.008466
Std Dev 0.9134
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

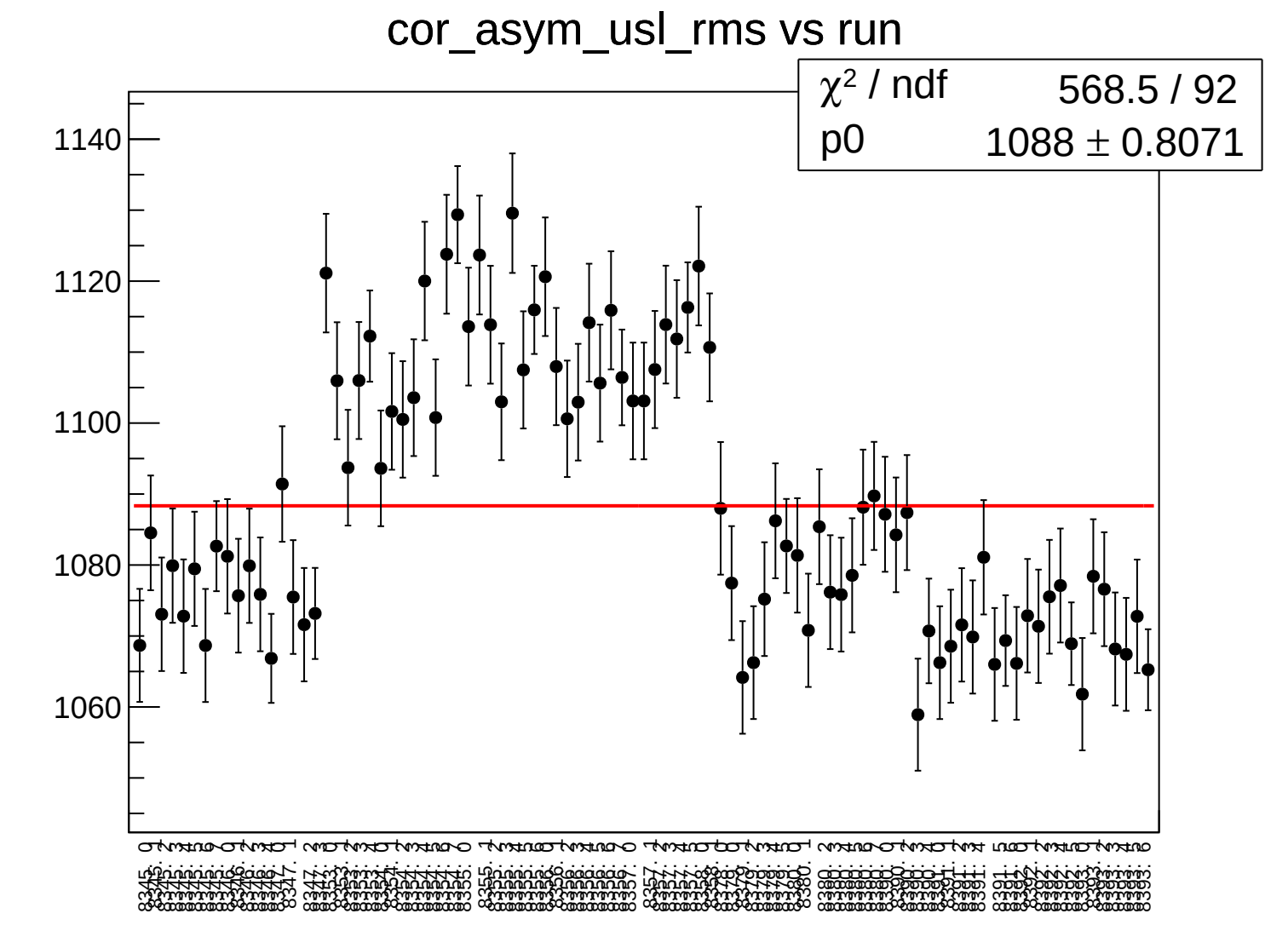

reg_asym_usl_rms vs run
χ² / ndf 568.5 / 92
p0 1088 ± 0.8071
1140
1120
1100
1080
1060

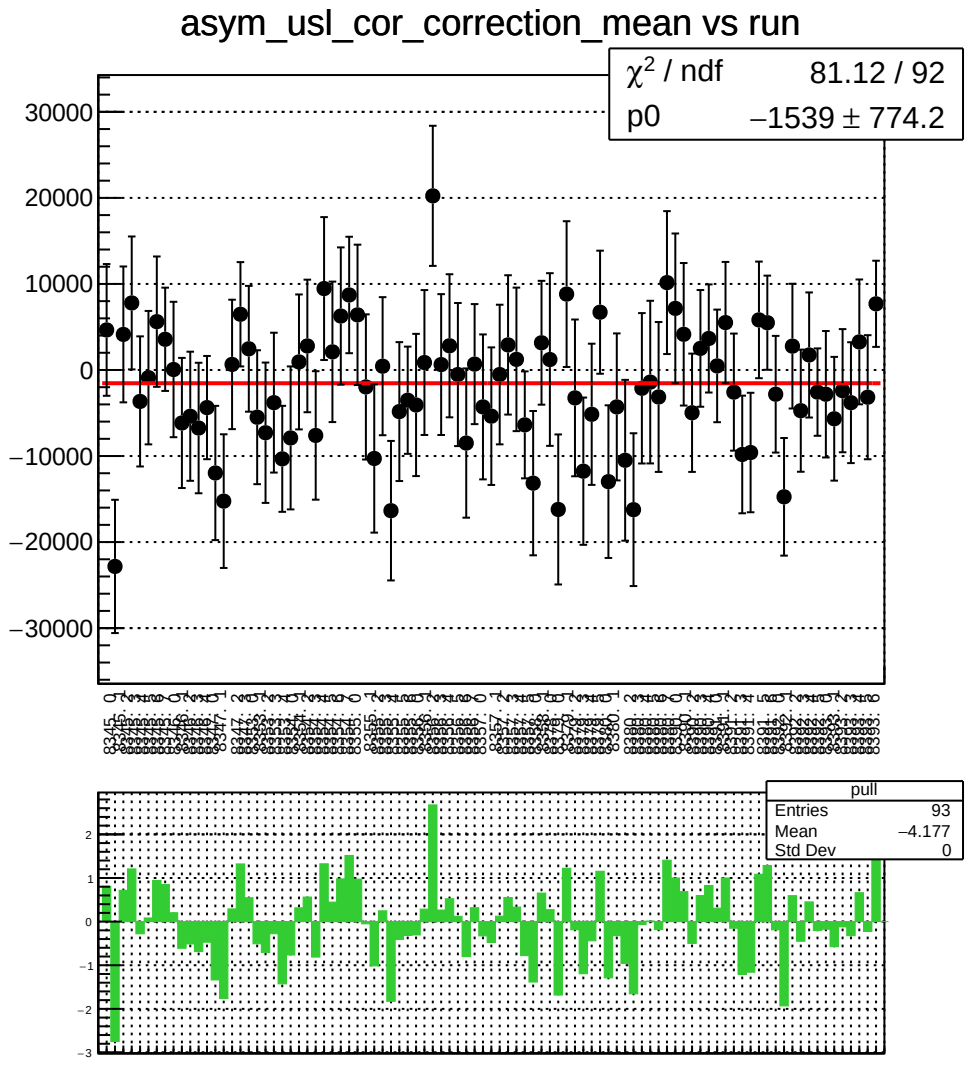

asym_usl_reg_correction_mean vs run
χ² / ndf 81.12 / 92
p0 −1539 ± 774.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −4.177
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.02344
Std Dev 0.9336
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

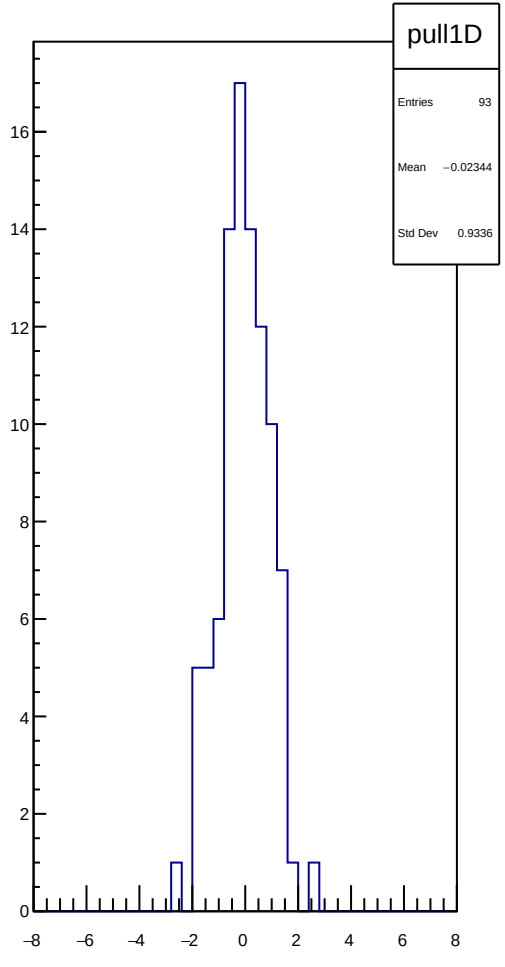

asym_usl_reg_correction_rms vs run
χ² / ndf 1.318e+04 / 92
p0 735.7 ± 0.5475
900
850
800
750
700
650
600

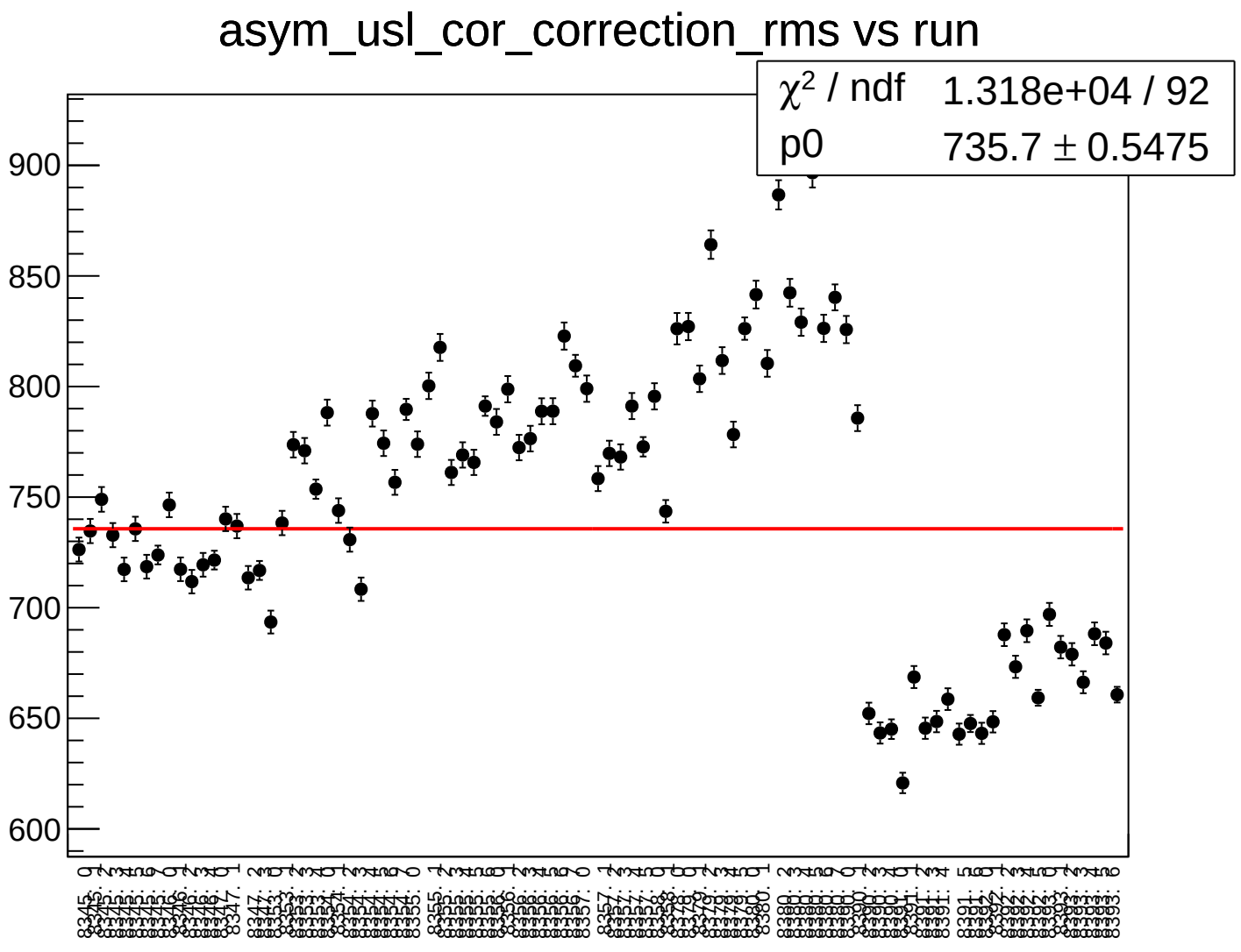

cor_asym_usl_mean vs run
χ² / ndf 77.6 / 92
p0 2196 ± 1141
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean 4.789
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

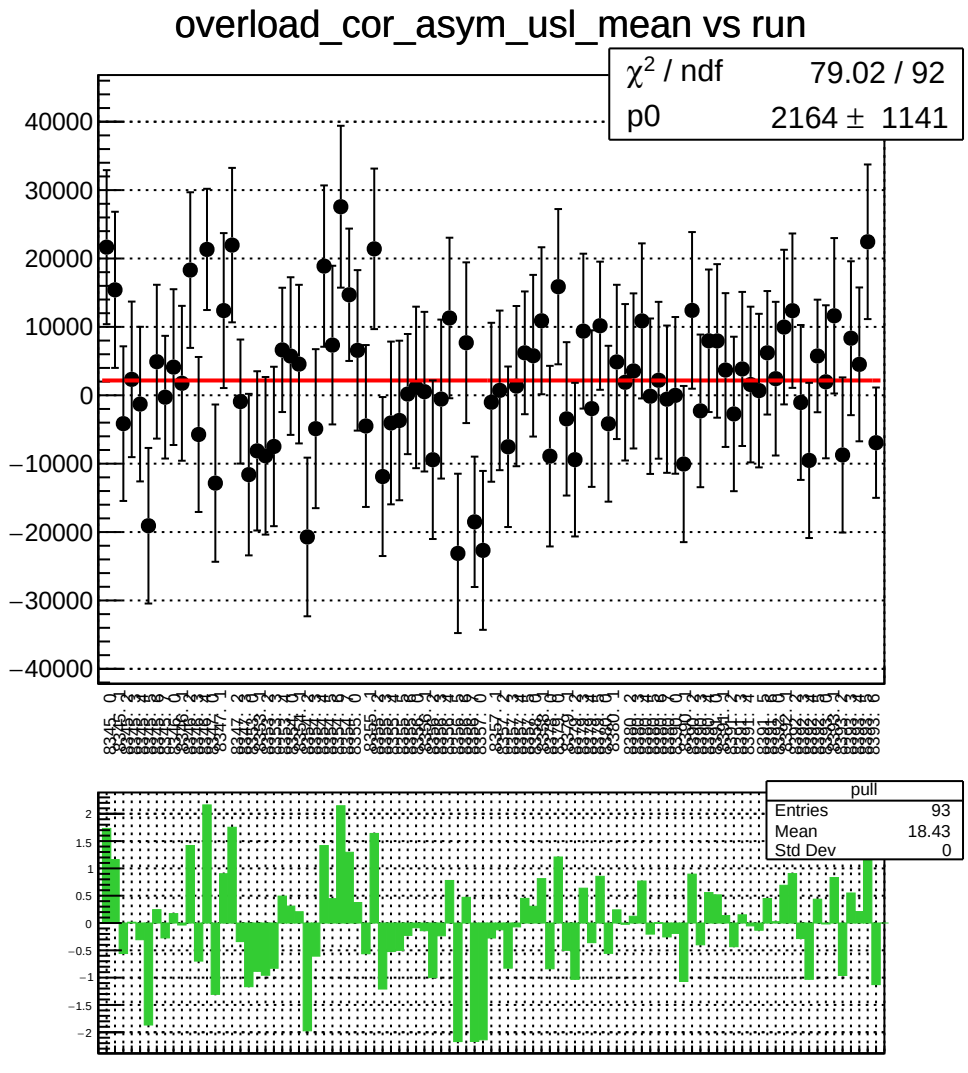

pull1D
Entries 93
Mean −0.008466
Std Dev 0.9134
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

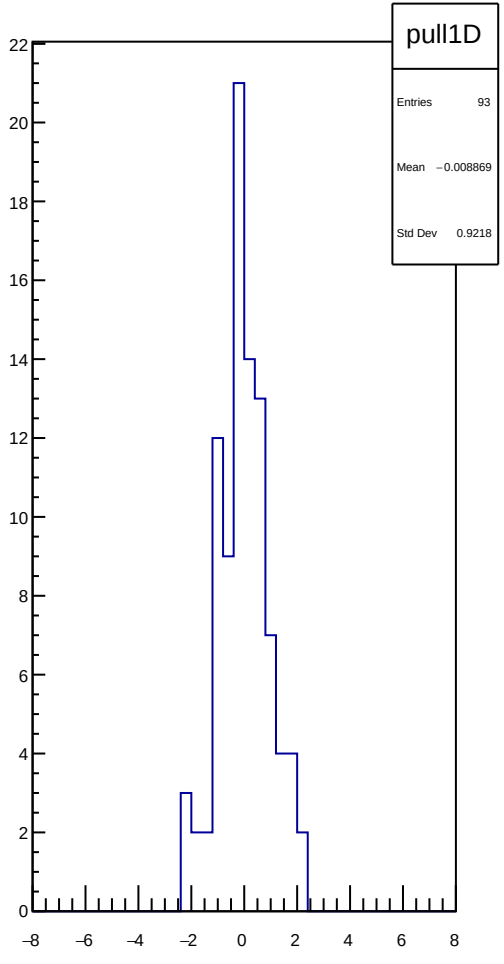

cor_asym_usl_rms vs run
χ² / ndf 568.5 / 92
p0 1088 ± 0.8071
1140
1120
1100
1080
1060

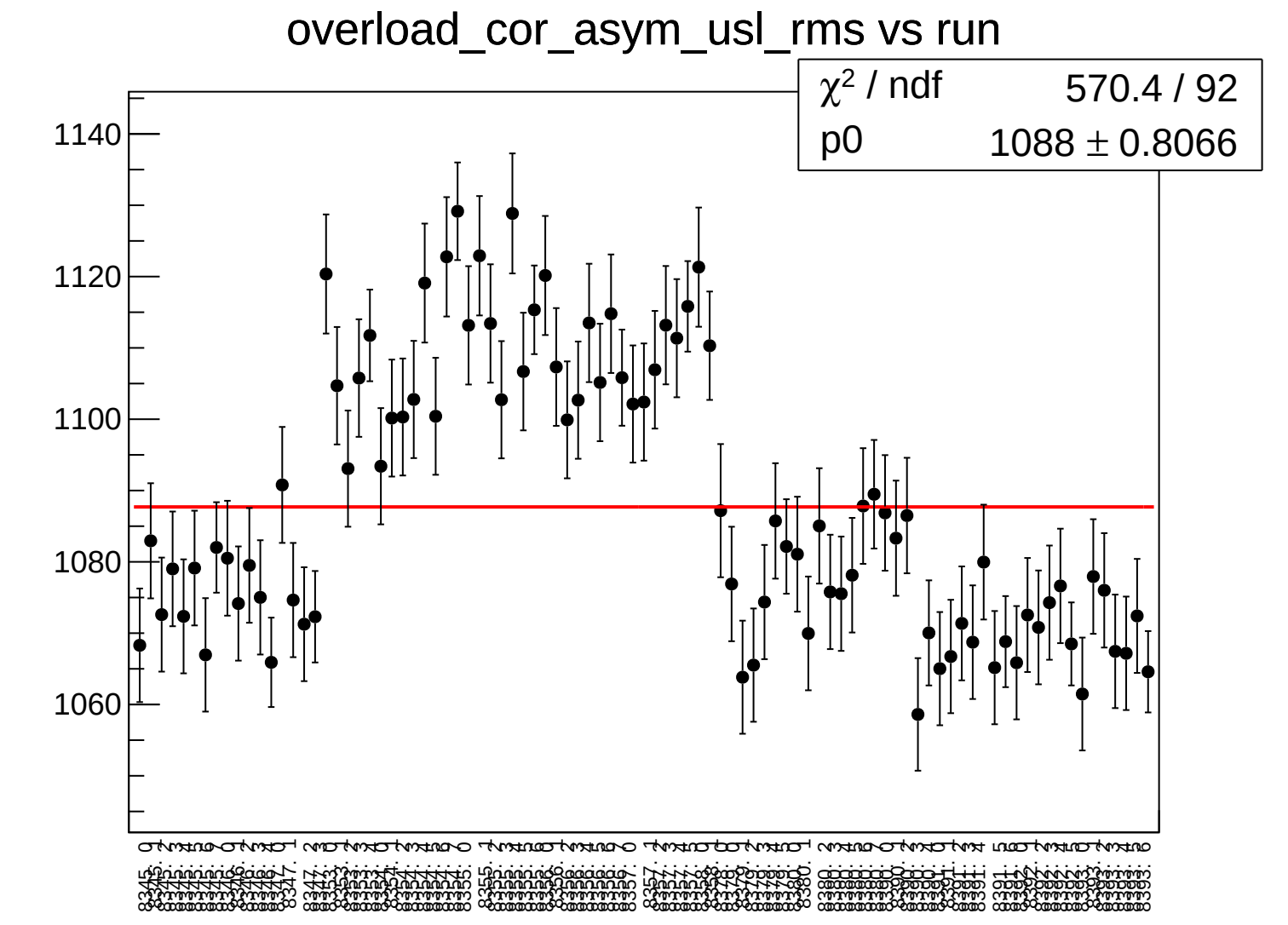

asym_usl_cor_correction_mean vs run
χ² / ndf 81.12 / 92
p0 −1539 ± 774.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −4.177
Std Dev 0
2
1
0
−1
−2
−3

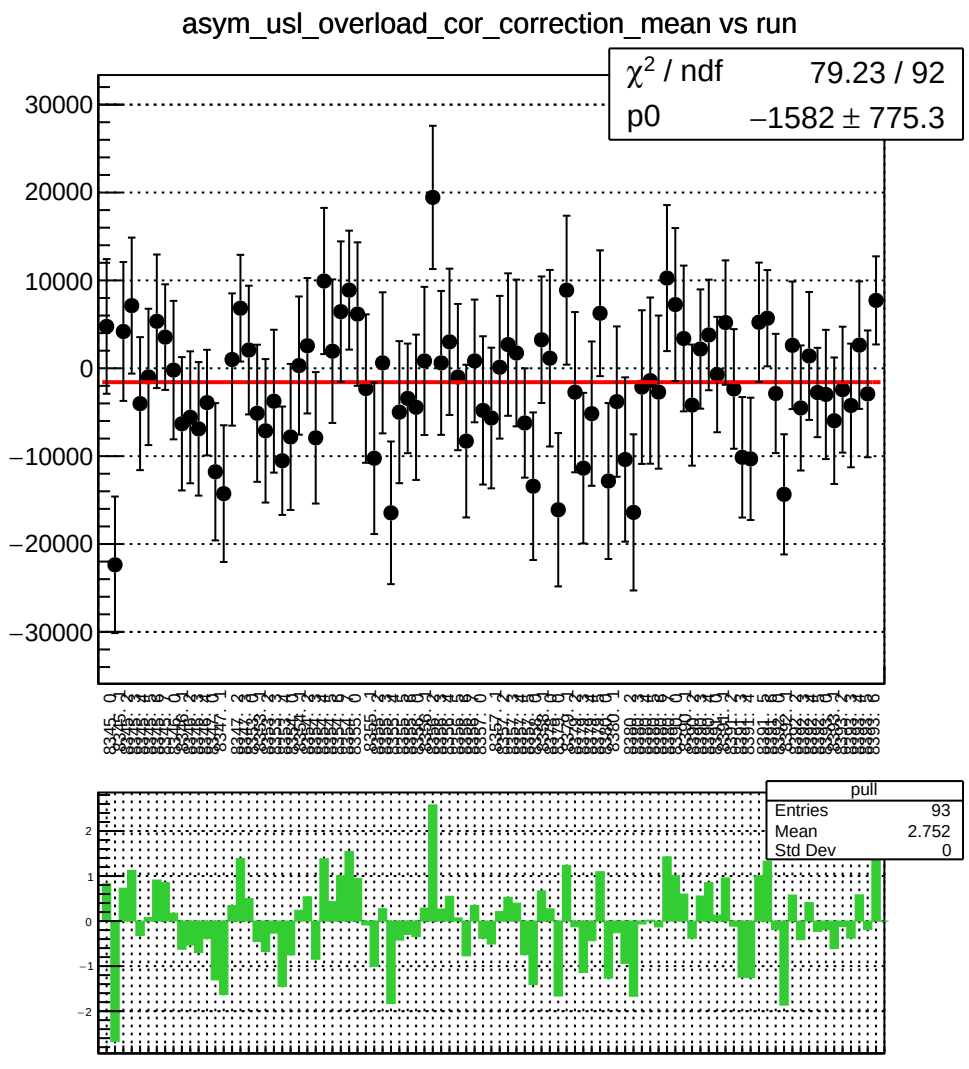

pull1D
Entries 93
Mean −0.02344
Std Dev 0.9336
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

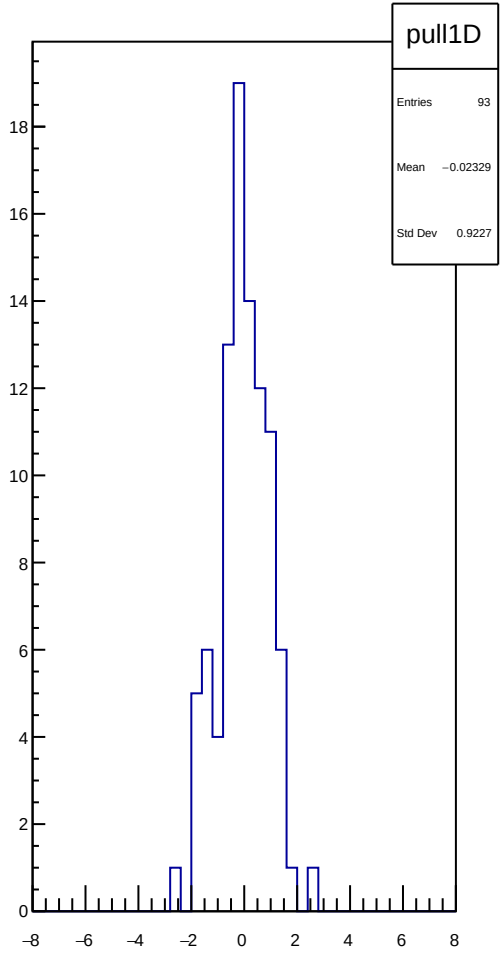

asym_usl_cor_correction_rms vs run
χ² / ndf 1.318e+04 / 92
p0 735.7 ± 0.5475
900
850
800
750
700
650
600

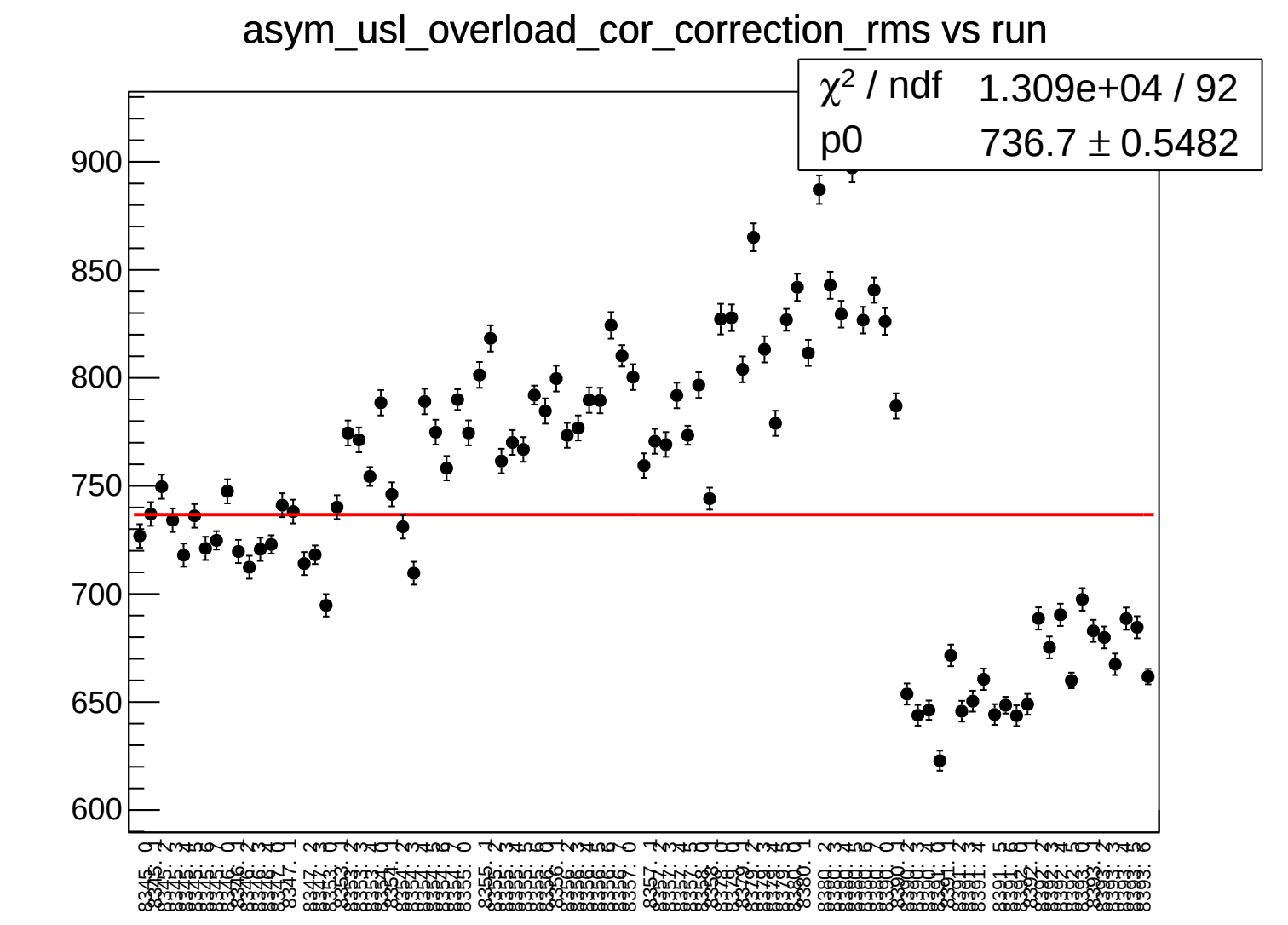

overload_cor_asym_usl_mean vs run
χ² / ndf 79.02 / 92
p0 2164 ± 1141
pull
Entries 93
Mean 18.43
Std Dev 0

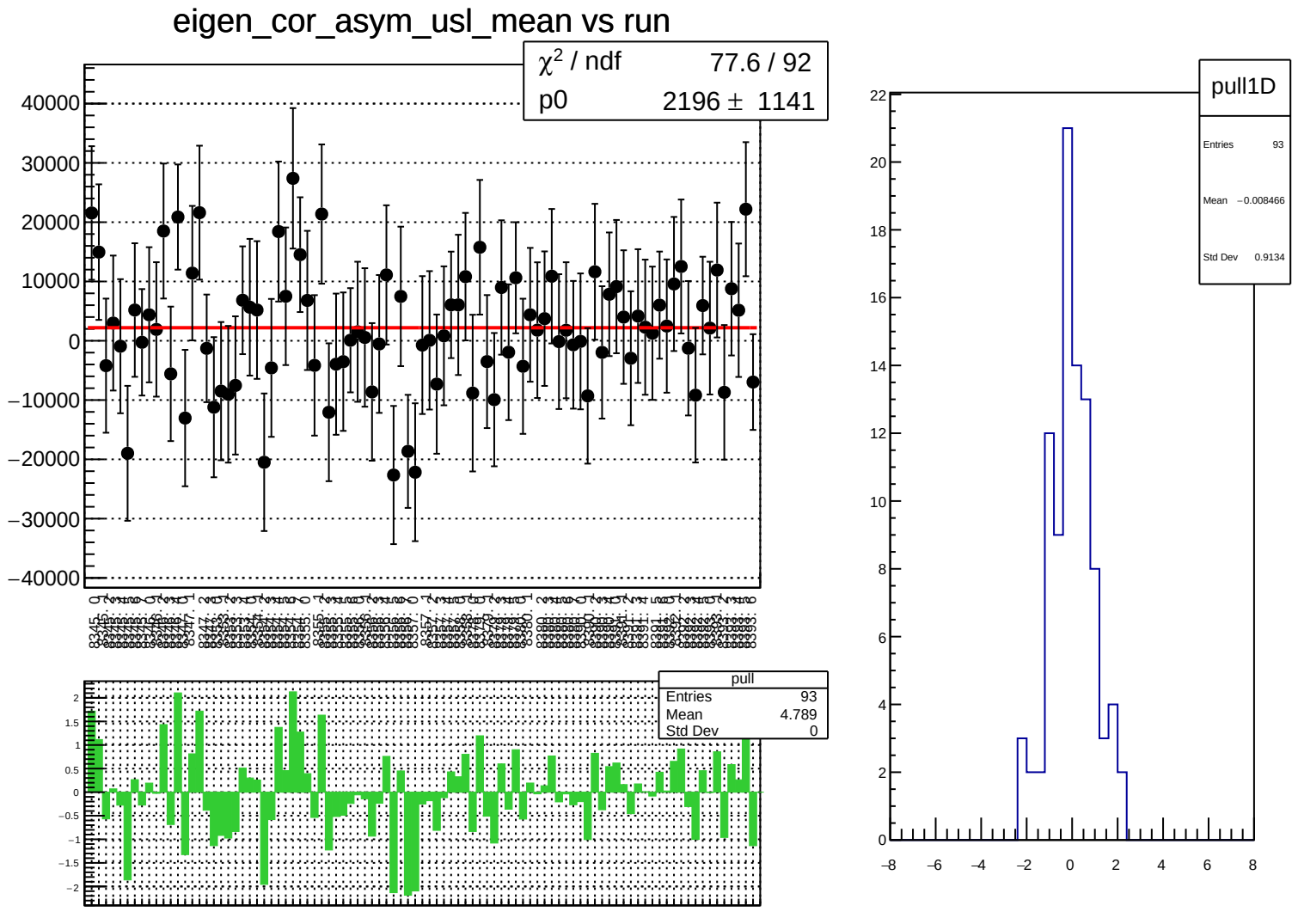

pull1D
Entries 93
Mean −0.008869
Std Dev 0.9218

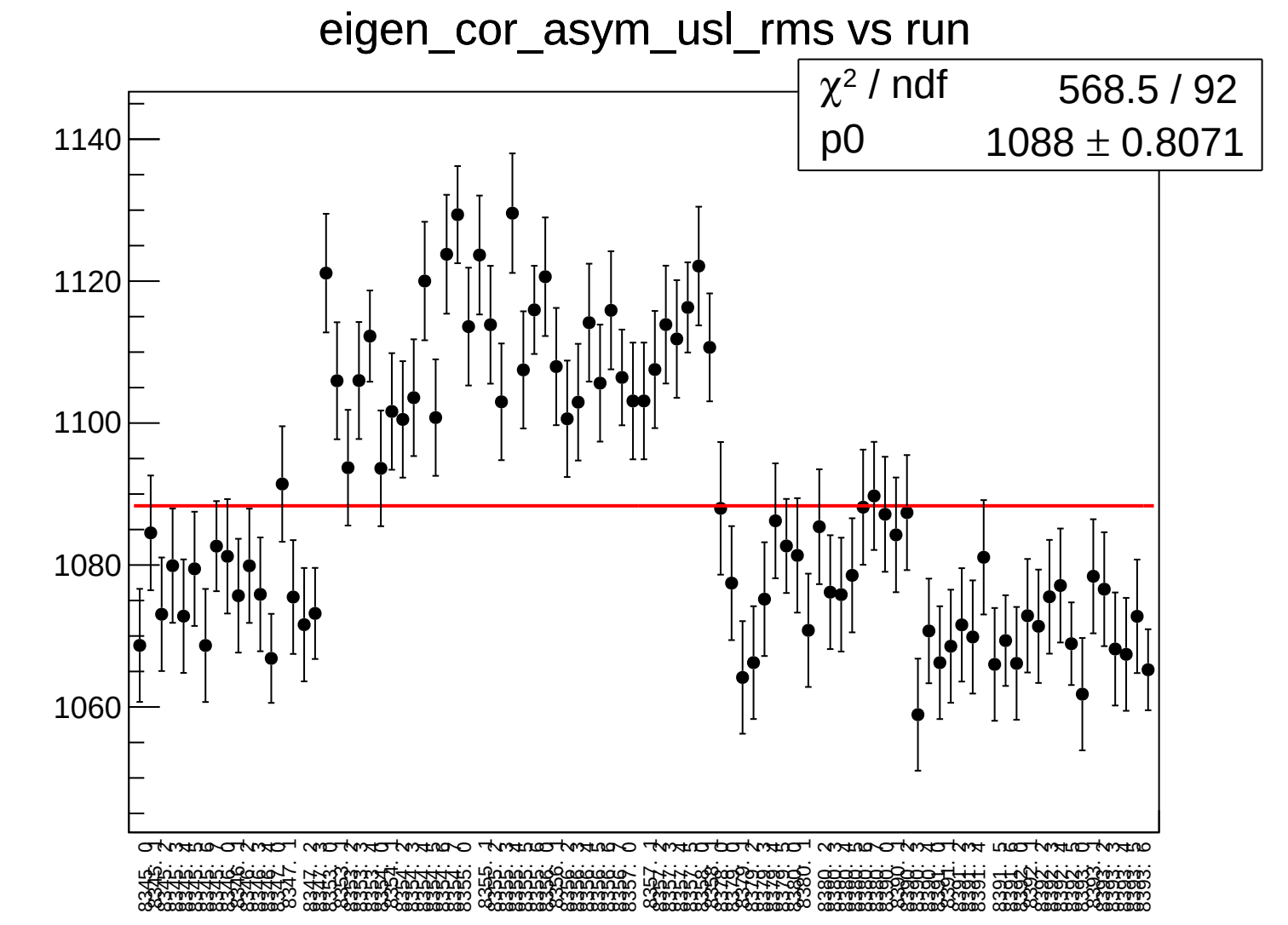

overload_cor_asym_usl_rms vs run
χ² / ndf 570.4 / 92
p0 1088 ± 0.8066
1140
1120
1100
1080
1060

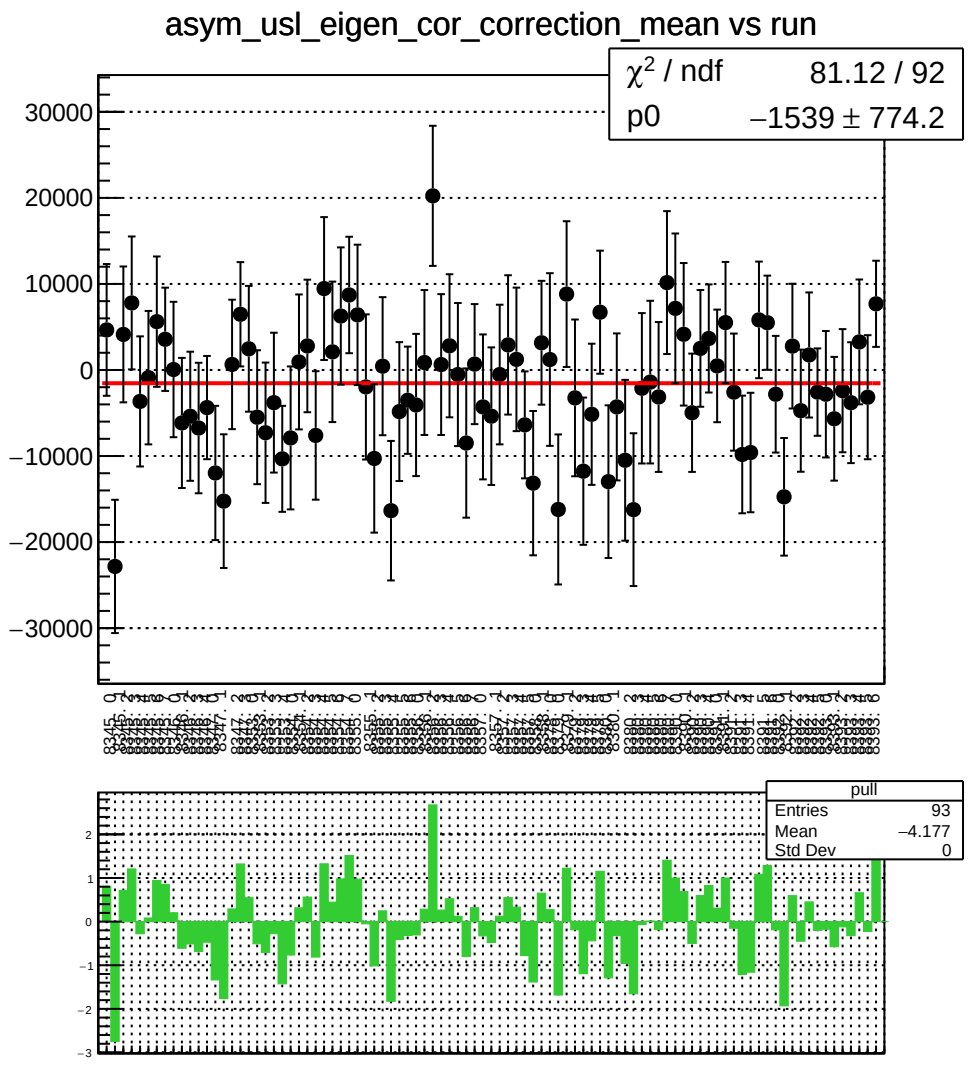

asym_usl_overload_cor_correction_mean vs run
χ² / ndf 79.23 / 92
p0 −1582 ± 775.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean 2.752
Std Dev 0
2
1
0
−1
−2

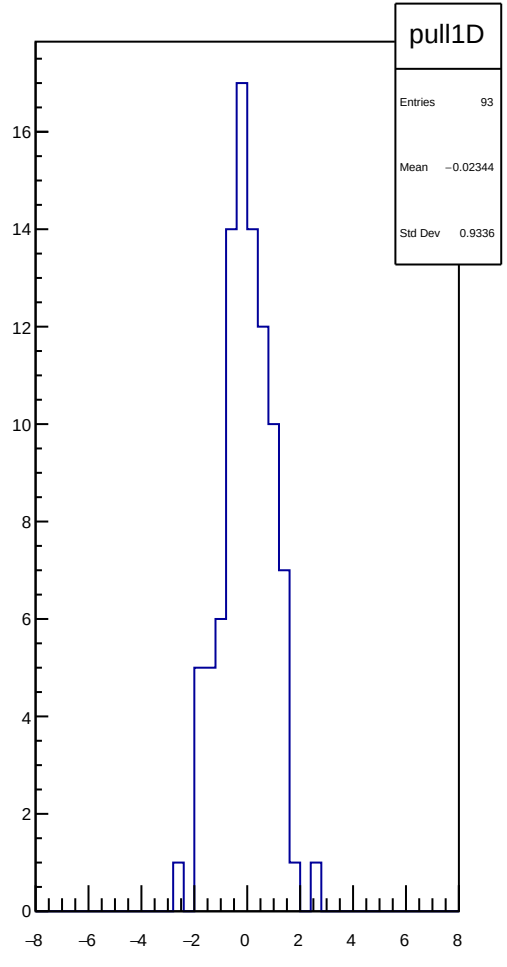

pull1D
Entries 93
Mean −0.02329
Std Dev 0.9227
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

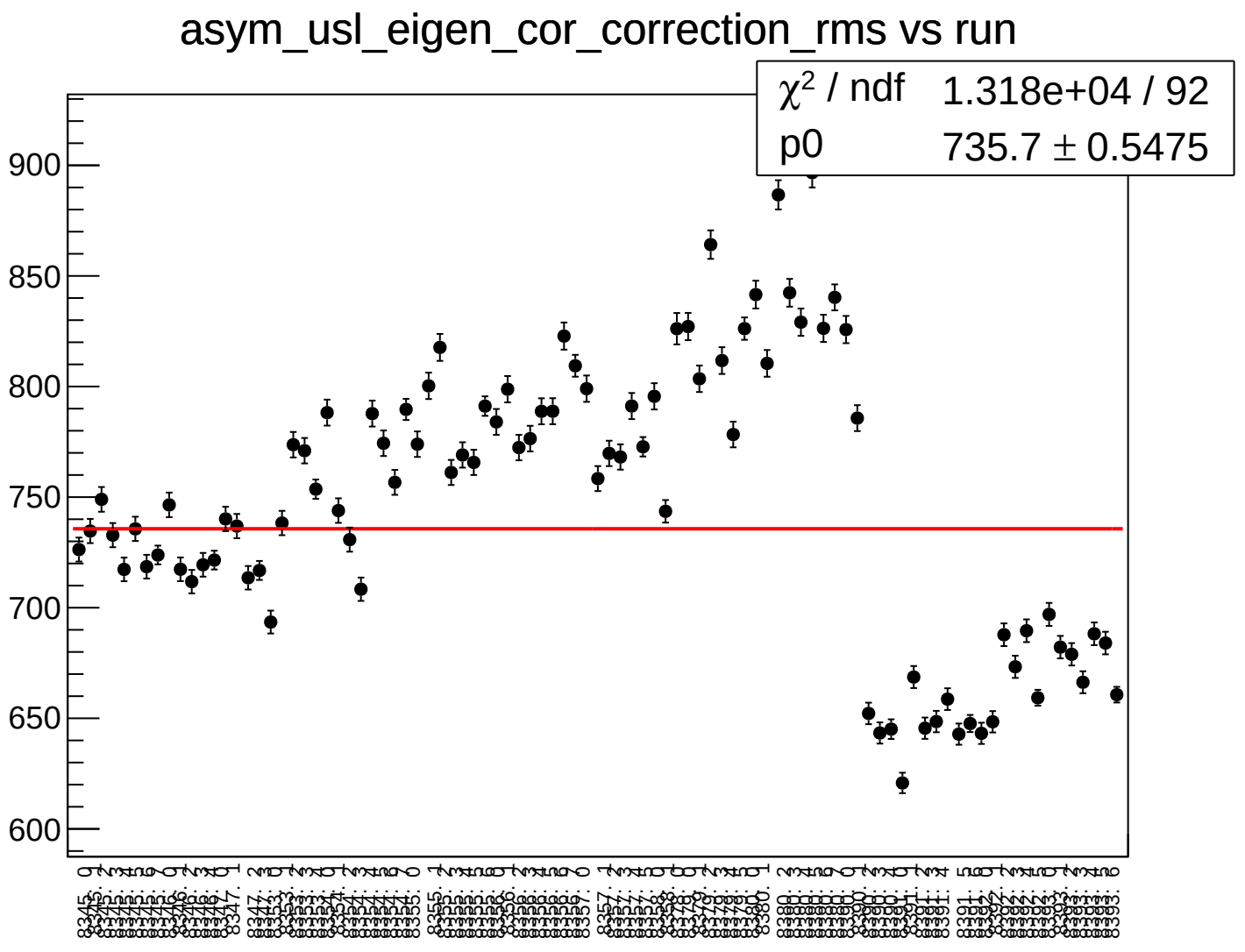

asym_usl_overload_cor_correction_rms vs run
χ^2 / ndf 1.309e+04 / 92
p0 736.7 ± 0.5482
900
850
800
750
700
650
600

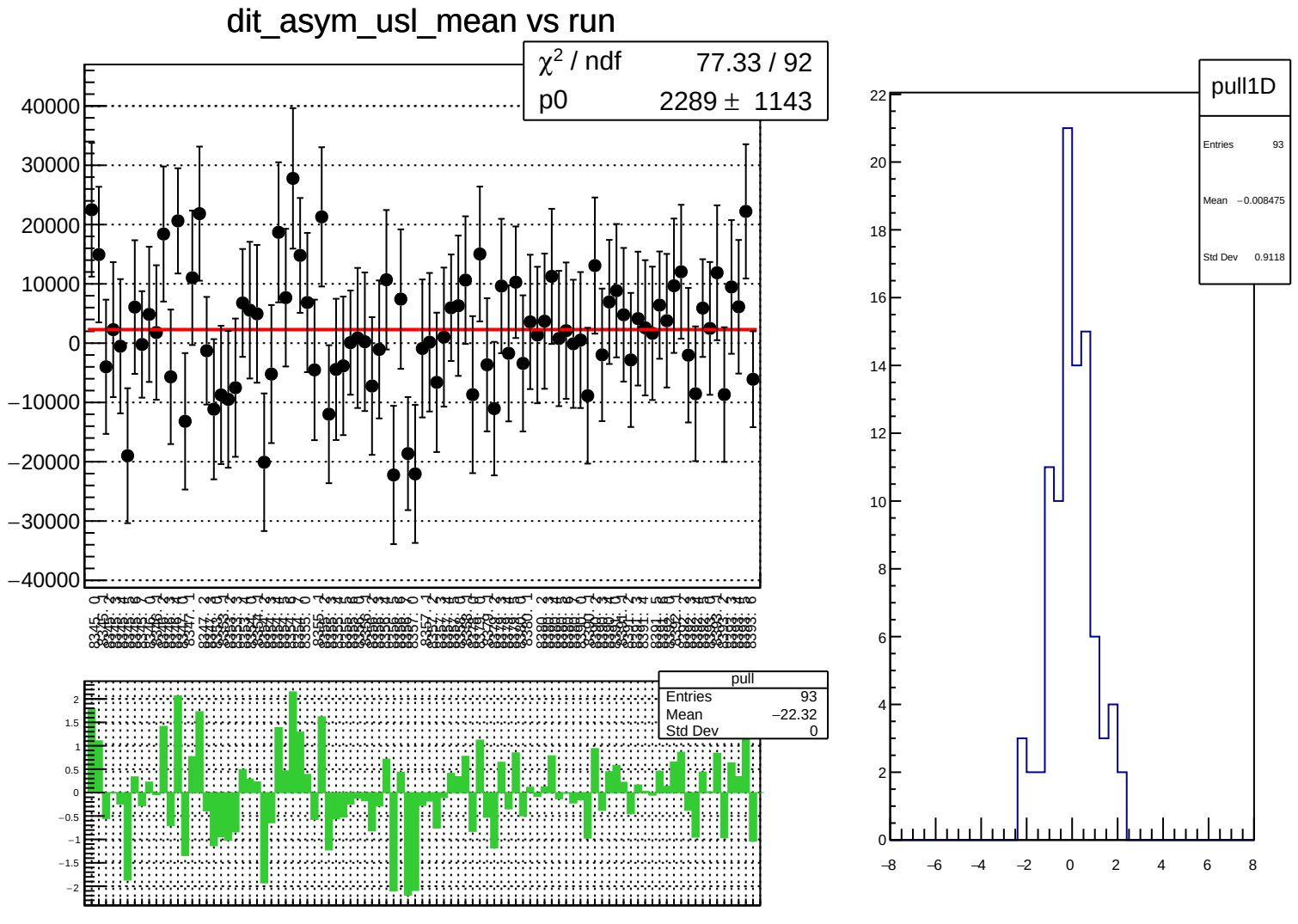

eigen_cor_asym_usl_mean vs run
χ² / ndf 77.6 / 92
p0 2196 ± 1141
pull
Entries 93
Mean 4.789
Std Dev 0
pull1D
Entries 93
Mean −0.008466
Std Dev 0.9134

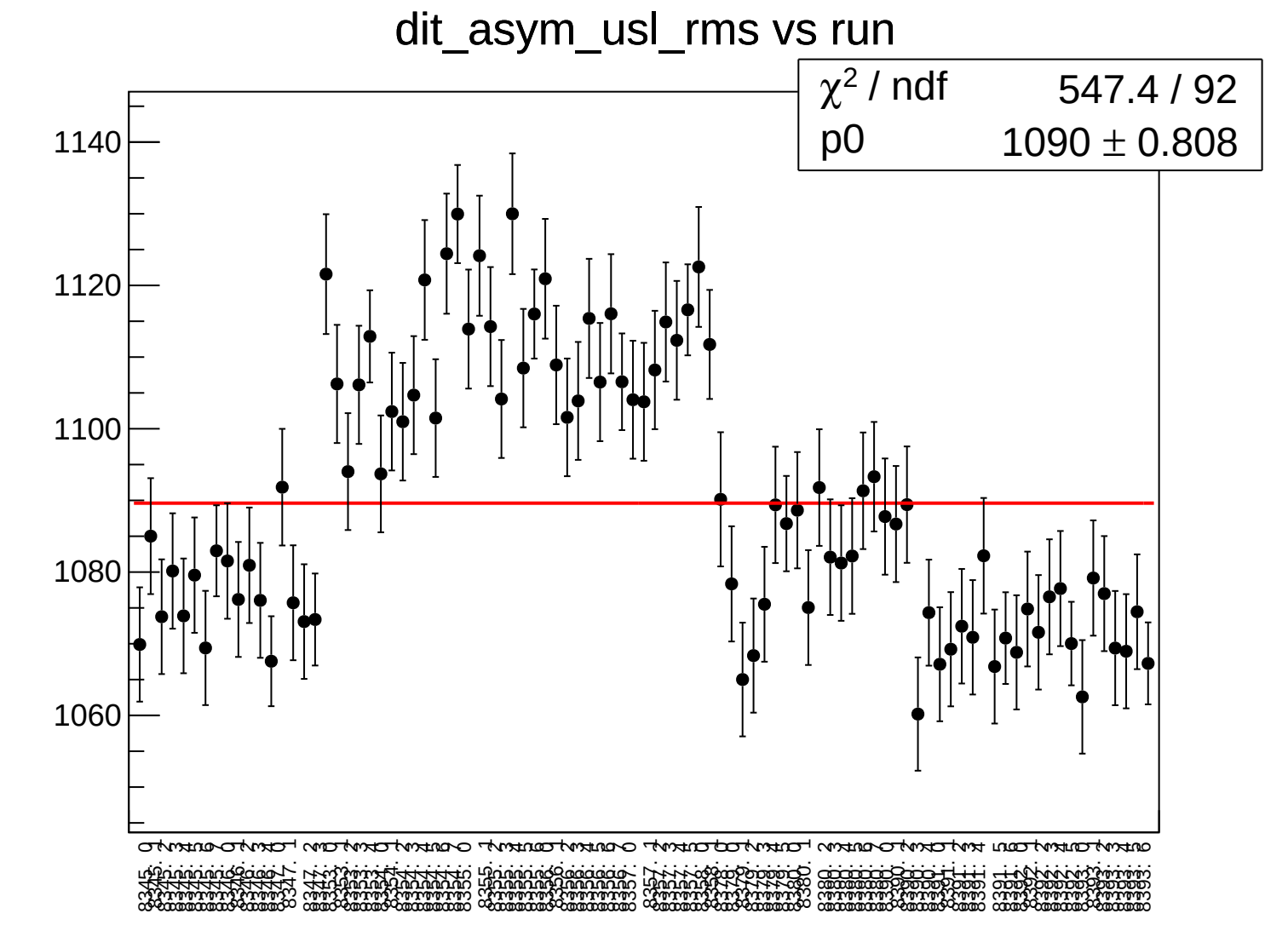

eigen_cor_asym_usl_rms vs run
χ² / ndf 568.5 / 92
p0 1088 ± 0.8071
1140
1120
1100
1080
1060

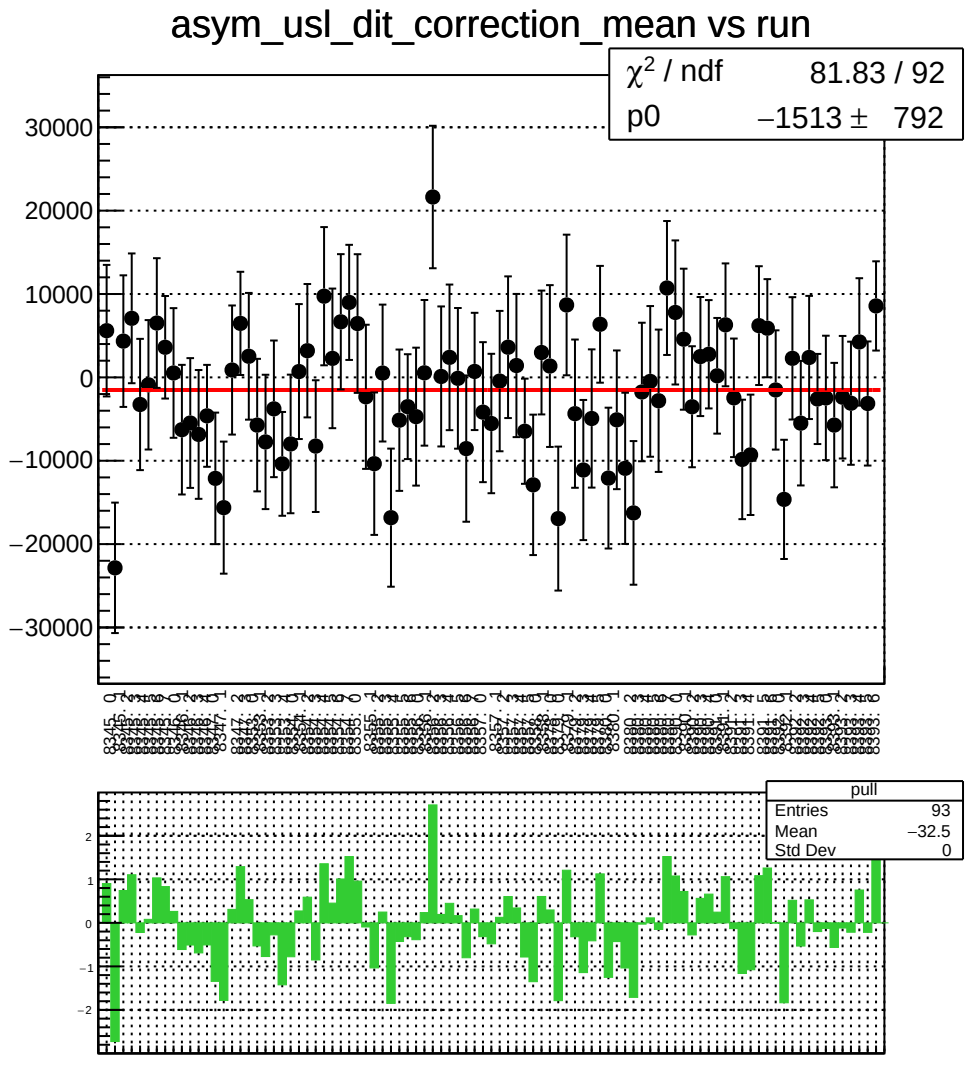

asym_usl_eigen_cor_correction_mean vs run
χ² / ndf 81.12 / 92
p0 −1539 ± 774.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −4.177
Std Dev 0
2
1
0
−1
−2
−3

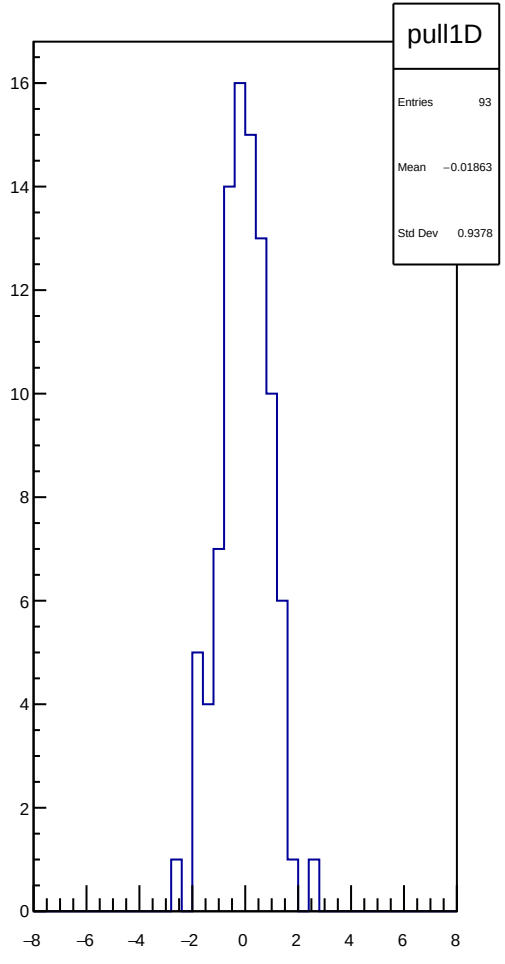

pull1D
Entries 93
Mean −0.02344
Std Dev 0.9336
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

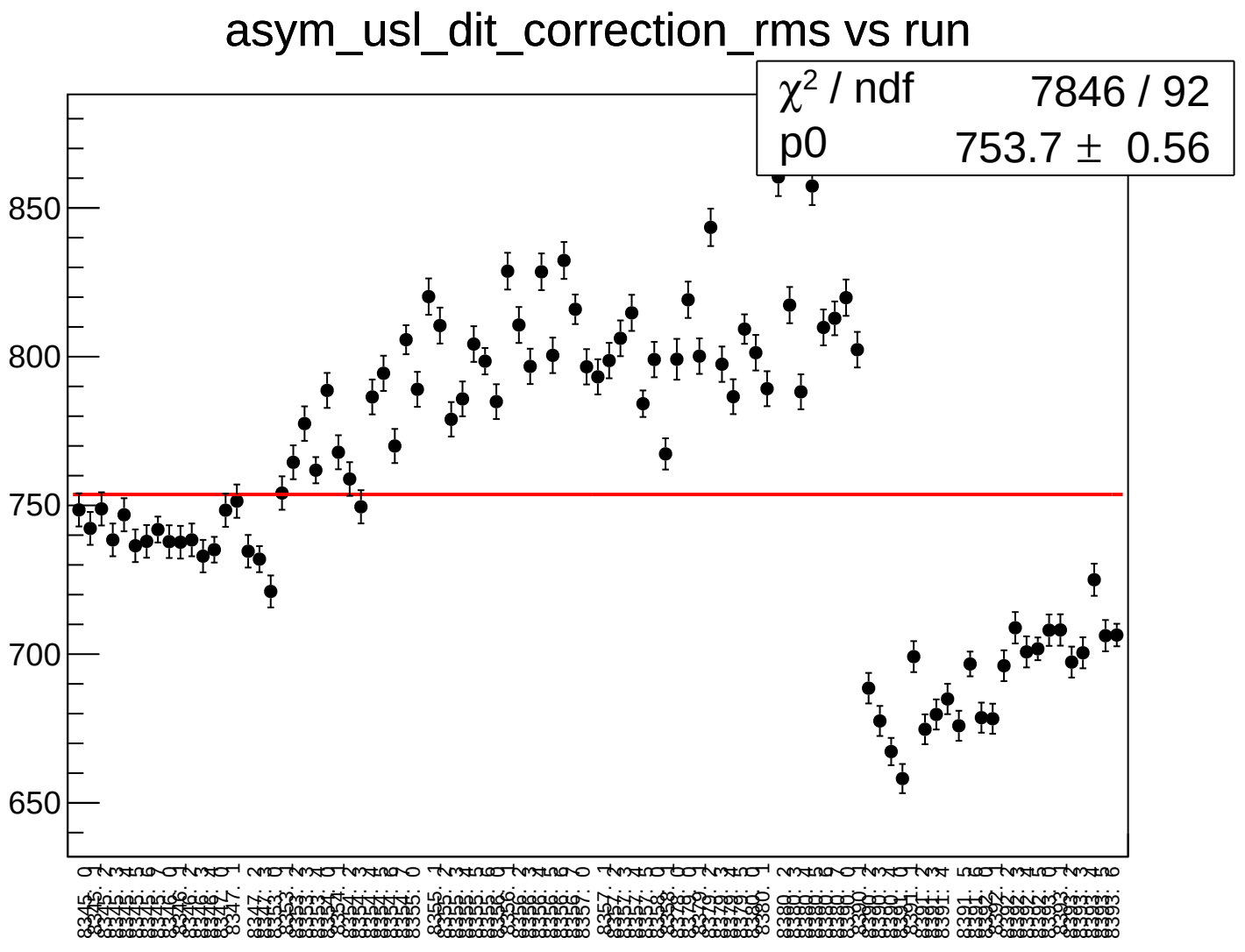

asym_usl_eigen_cor_correction_rms vs run
χ² / ndf 1.318e+04 / 92
p0 735.7 ± 0.5475
900
850
800
750
700
650
600

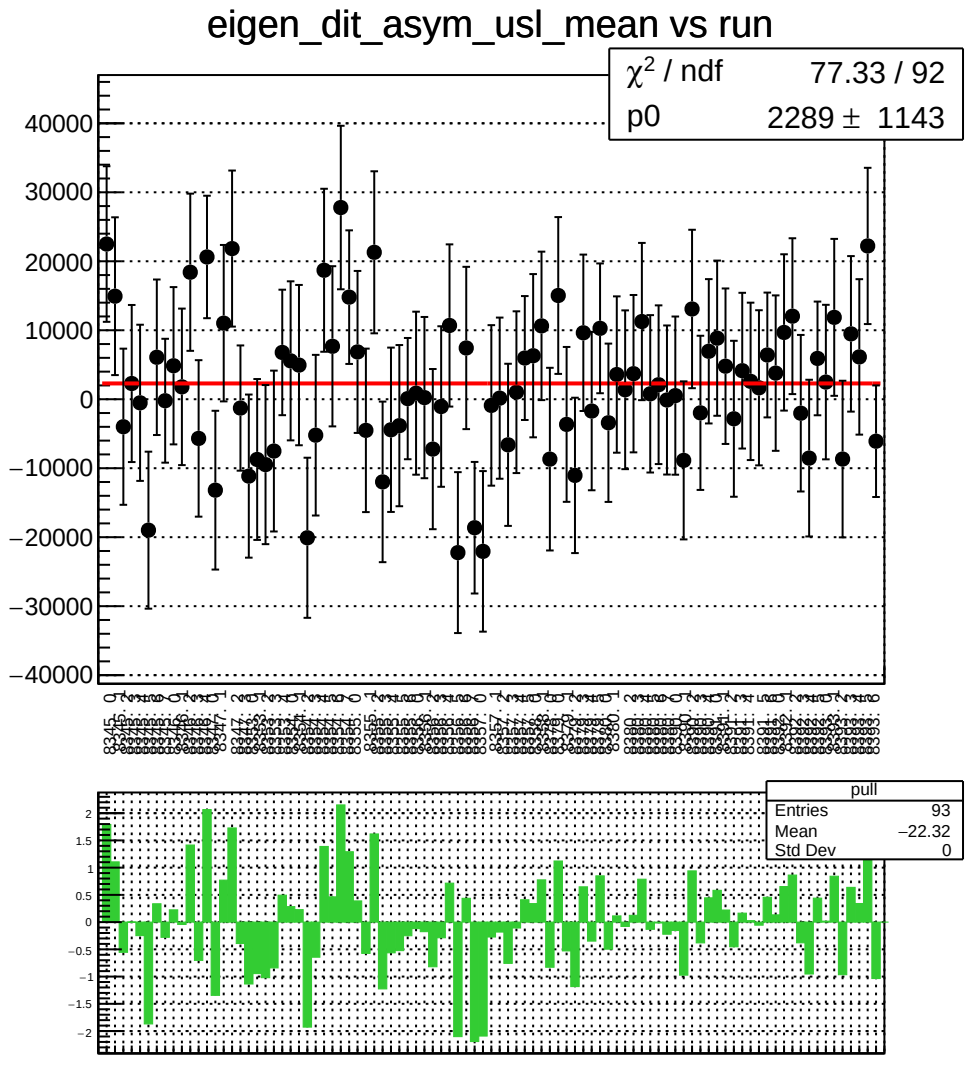

dit_asym_usl_mean vs run
χ² / ndf 77.33 / 92
p0 2289 ± 1143
pull
Entries 93
Mean −22.32
Std Dev 0
pull1D
Entries 93
Mean −0.008475
Std Dev 0.9118

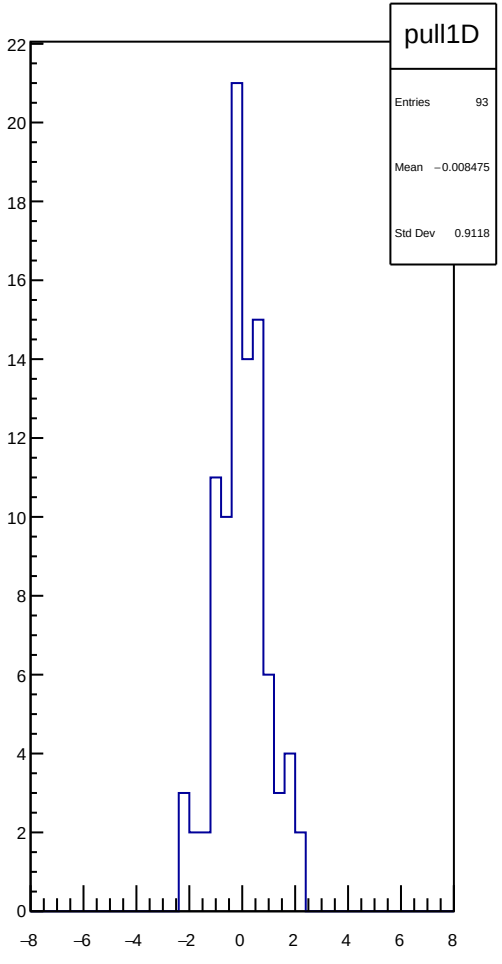

dit_asym_usl_rms vs run
χ² / ndf 547.4 / 92
p0 1090 ± 0.808
1140
1120
1100
1080
1060

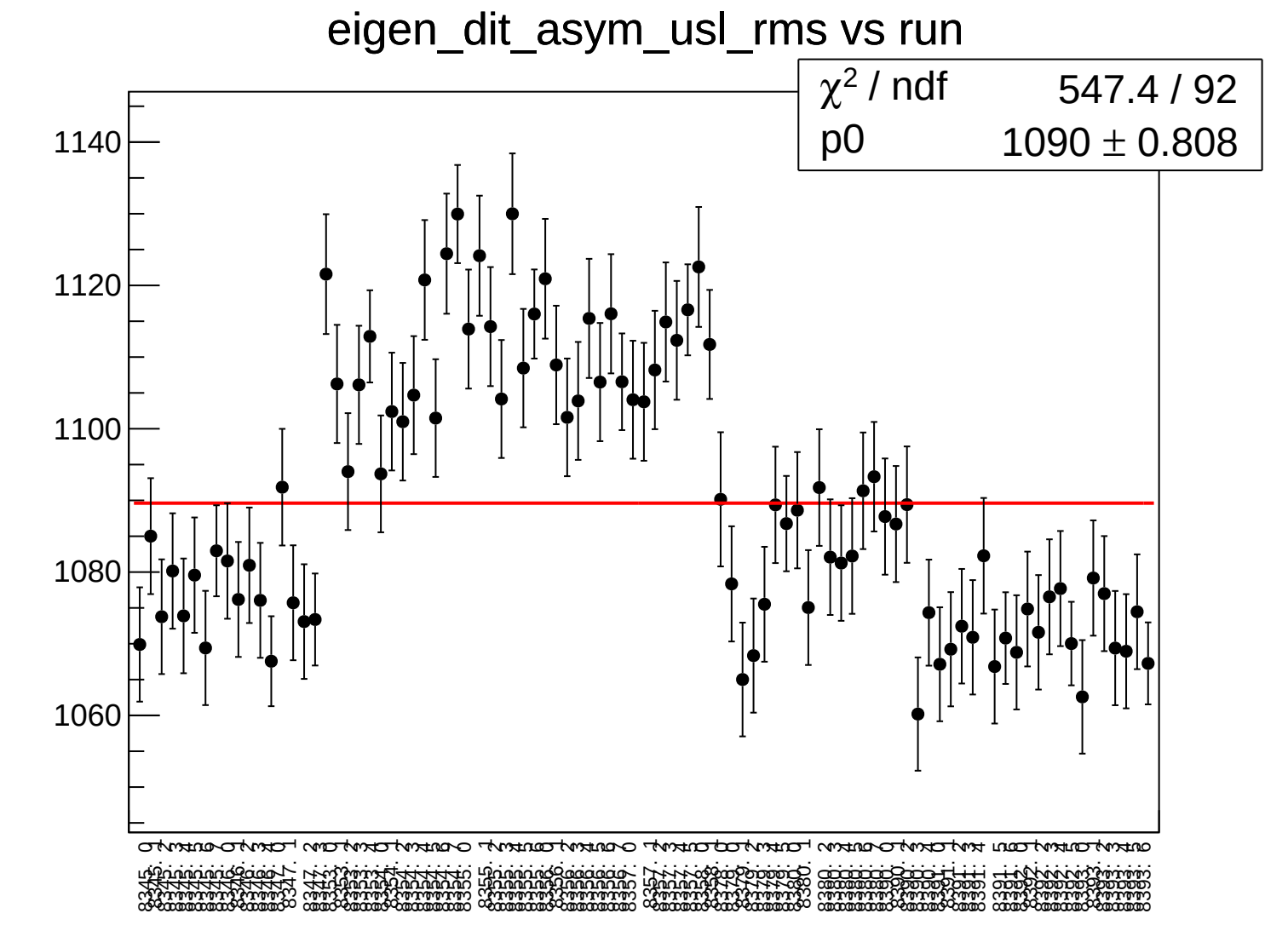

asym_usl_dit_correction_mean vs run
χ² / ndf 81.83 / 92
p0 −1513 ± 792
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −32.5
Std Dev 0
2
1
0
−1
−2

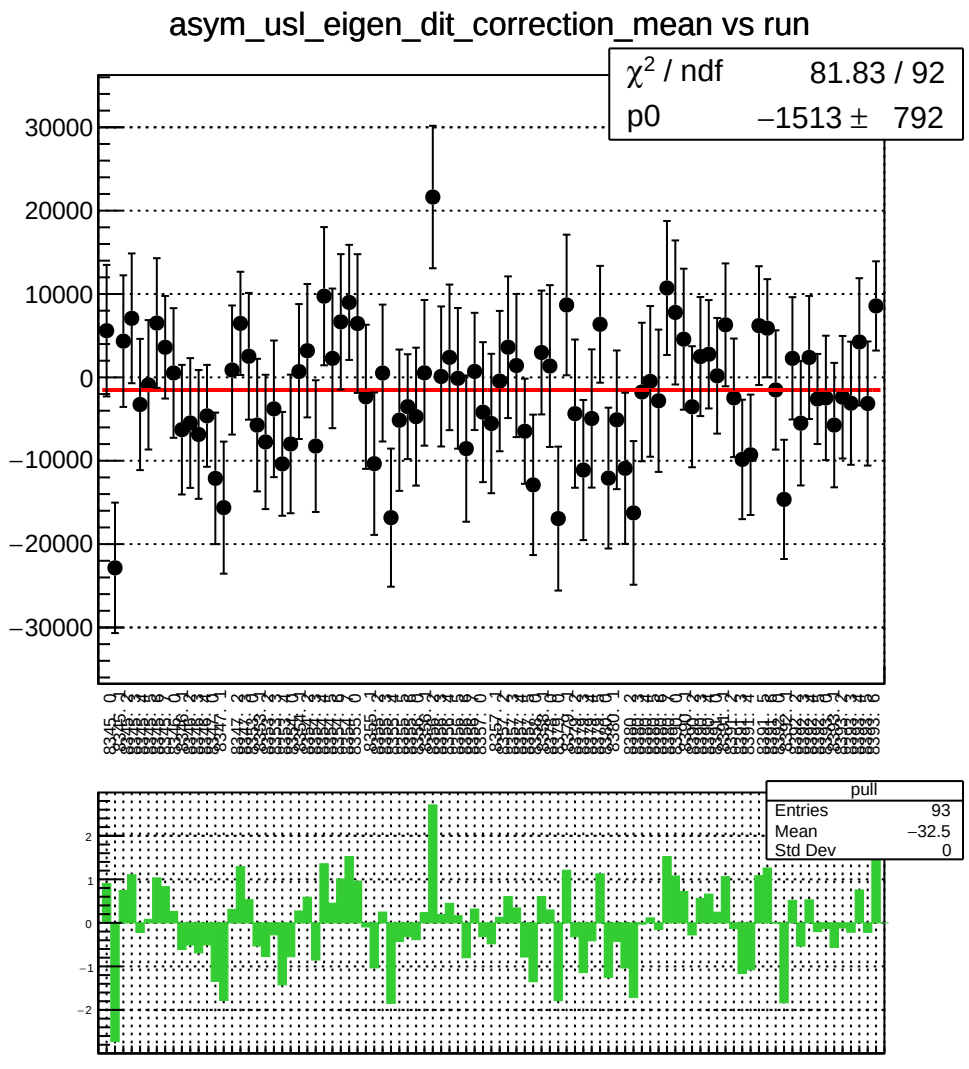

pull1D
Entries 93
Mean −0.01863
Std Dev 0.9378
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

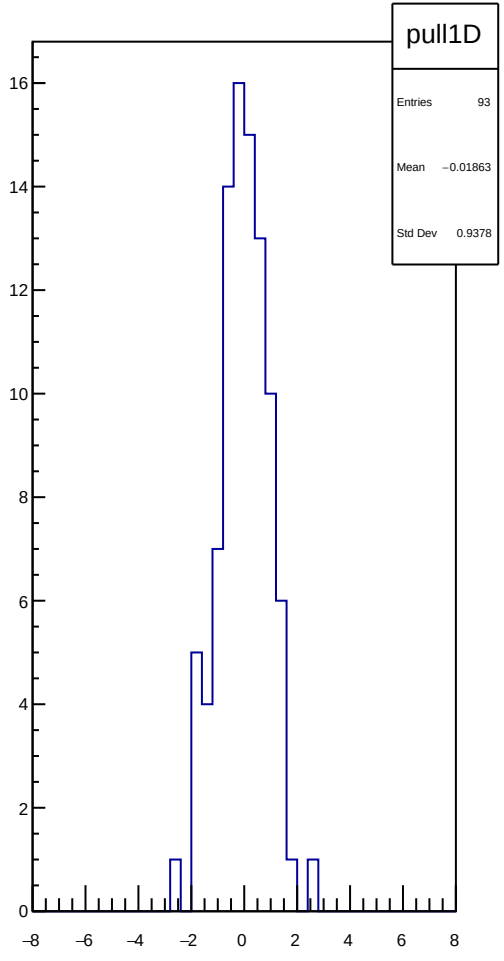

asym_usl_dit_correction_rms vs run
χ² / ndf 7846 / 92
p0 753.7 ± 0.56
850
800
750
700
650

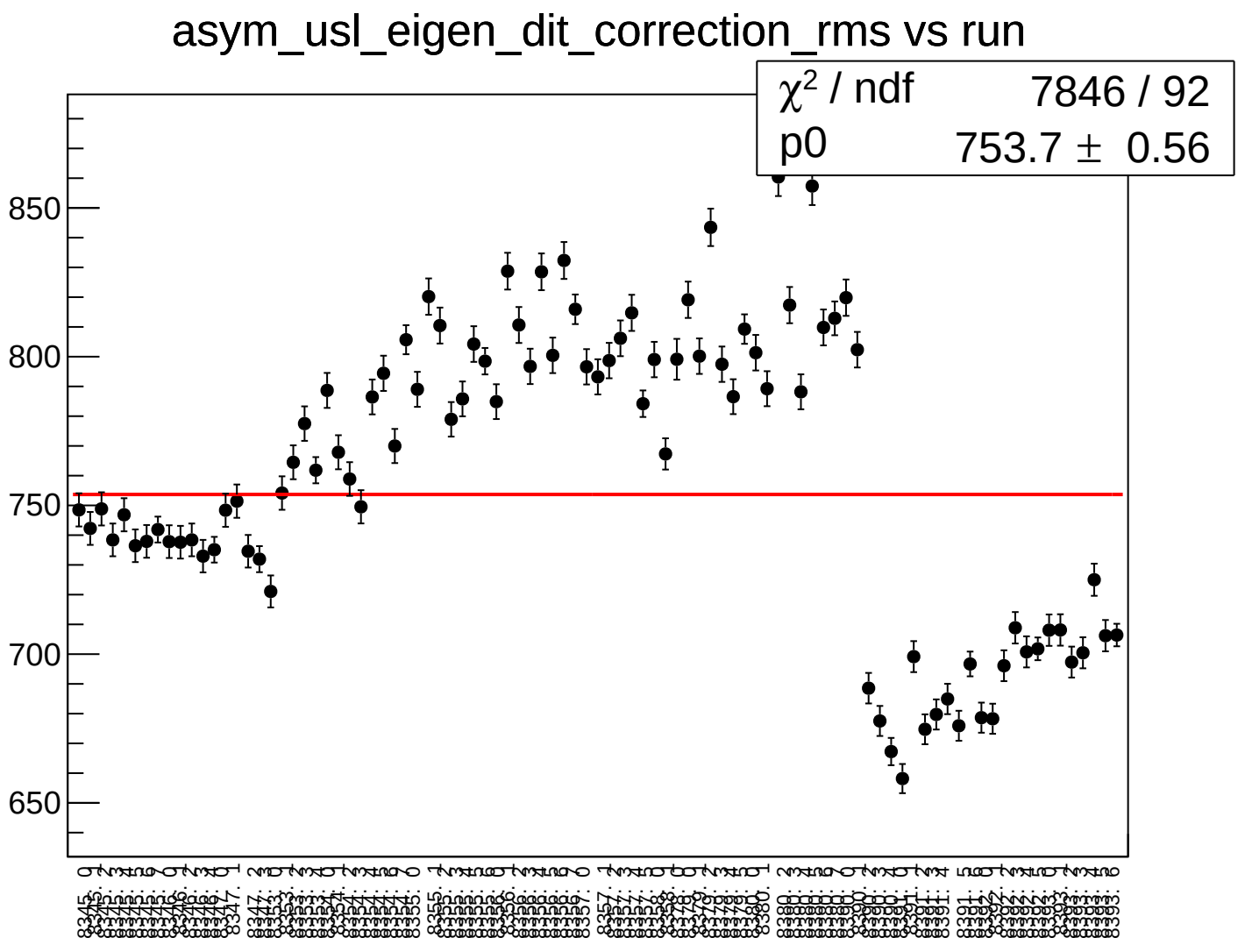

eigen_dit_asym_usl_mean vs run
χ² / ndf 77.33 / 92
p0 2289 ± 1143
pull
Entries 93
Mean −22.32
Std Dev 0

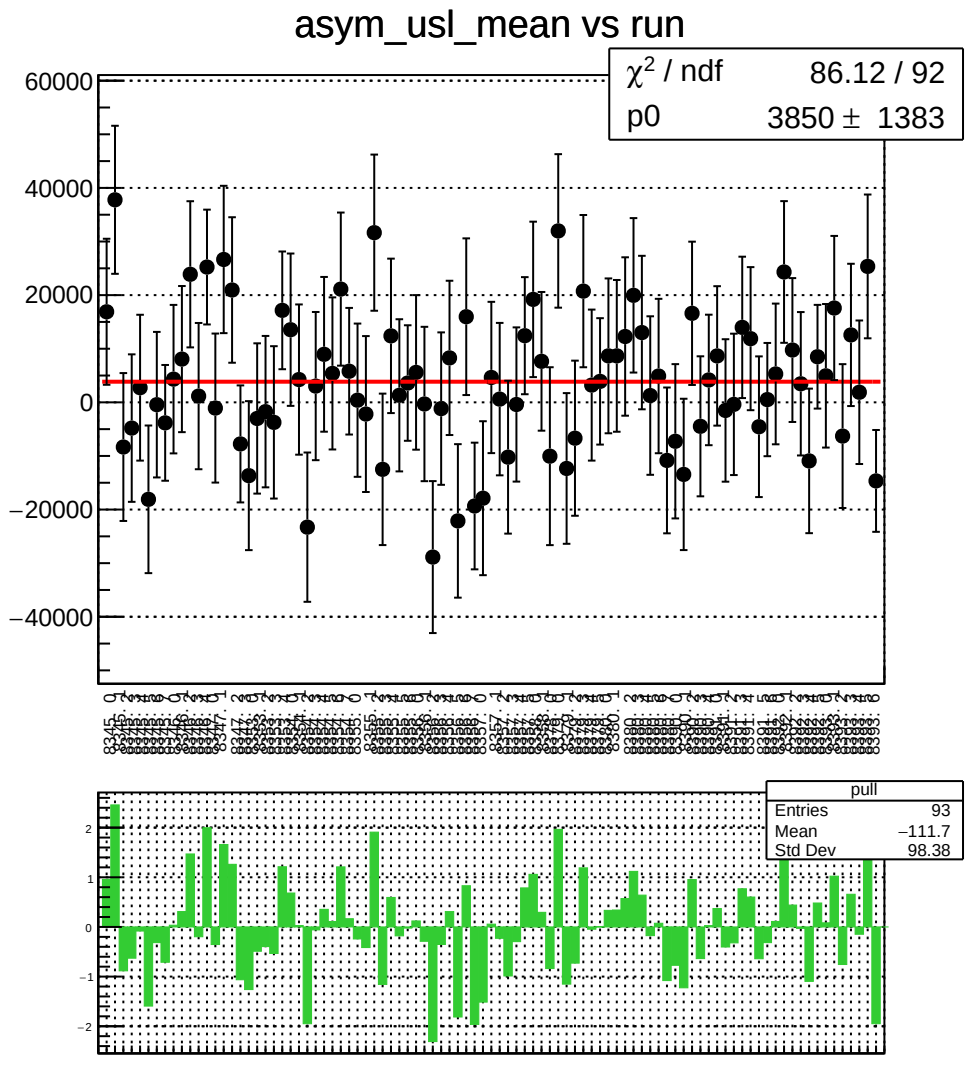

pull1D
Entries 93
Mean −0.008475
Std Dev 0.9118

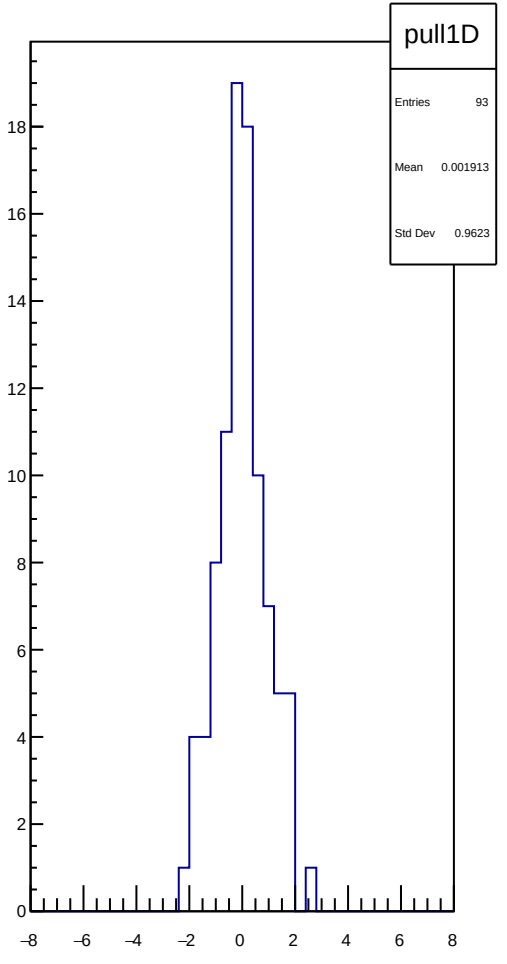

eigen_dit_asym_usl_rms vs run
χ^2 / ndf 547.4 / 92
p0 1090 ± 0.808
1140
1120
1100
1080
1060

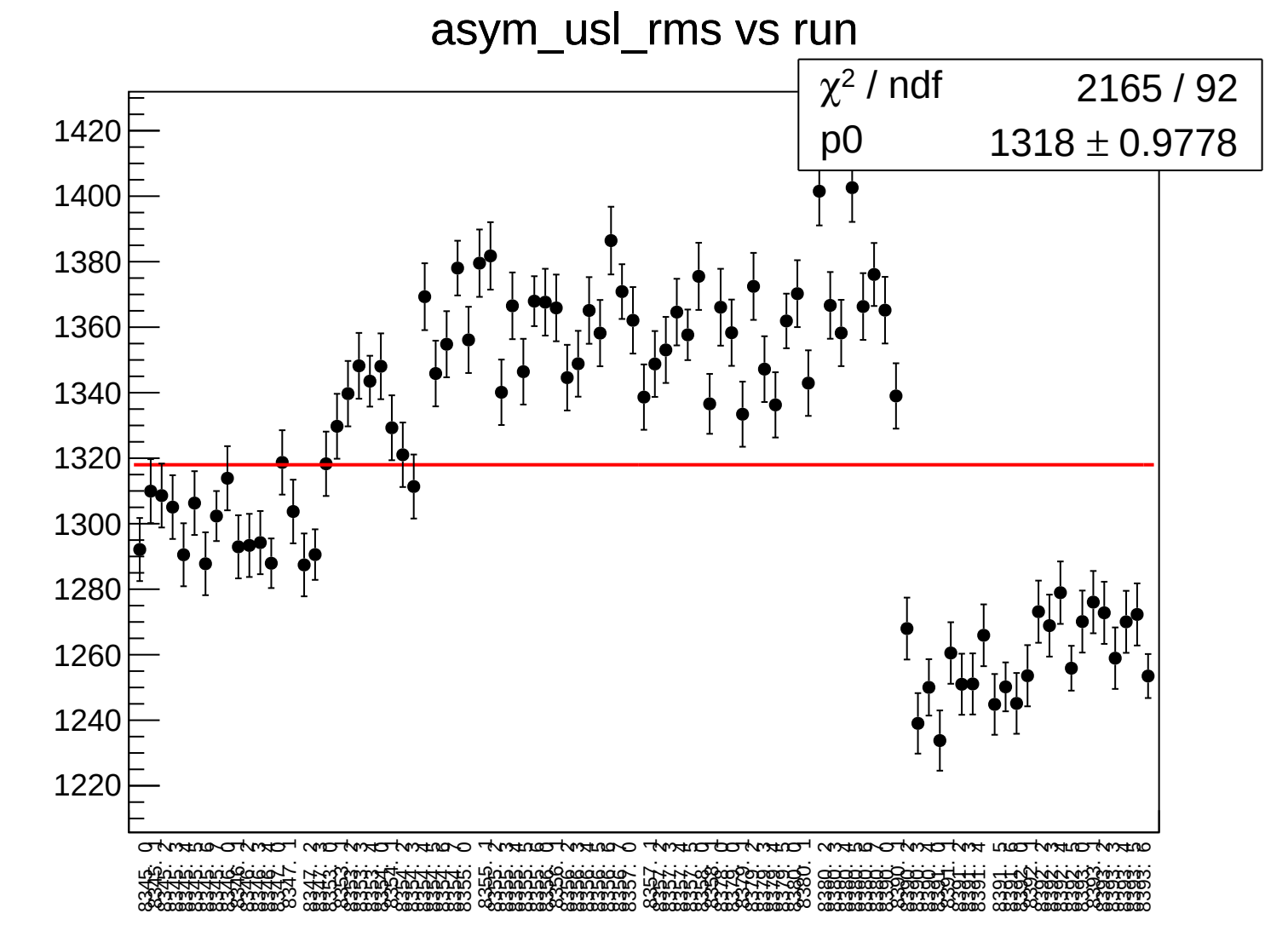

asym_usl_eigen_dit_correction_mean vs run
χ² / ndf 81.83 / 92
p0 −1513 ± 792
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −32.5
Std Dev 0
2
1
0
−1
−2

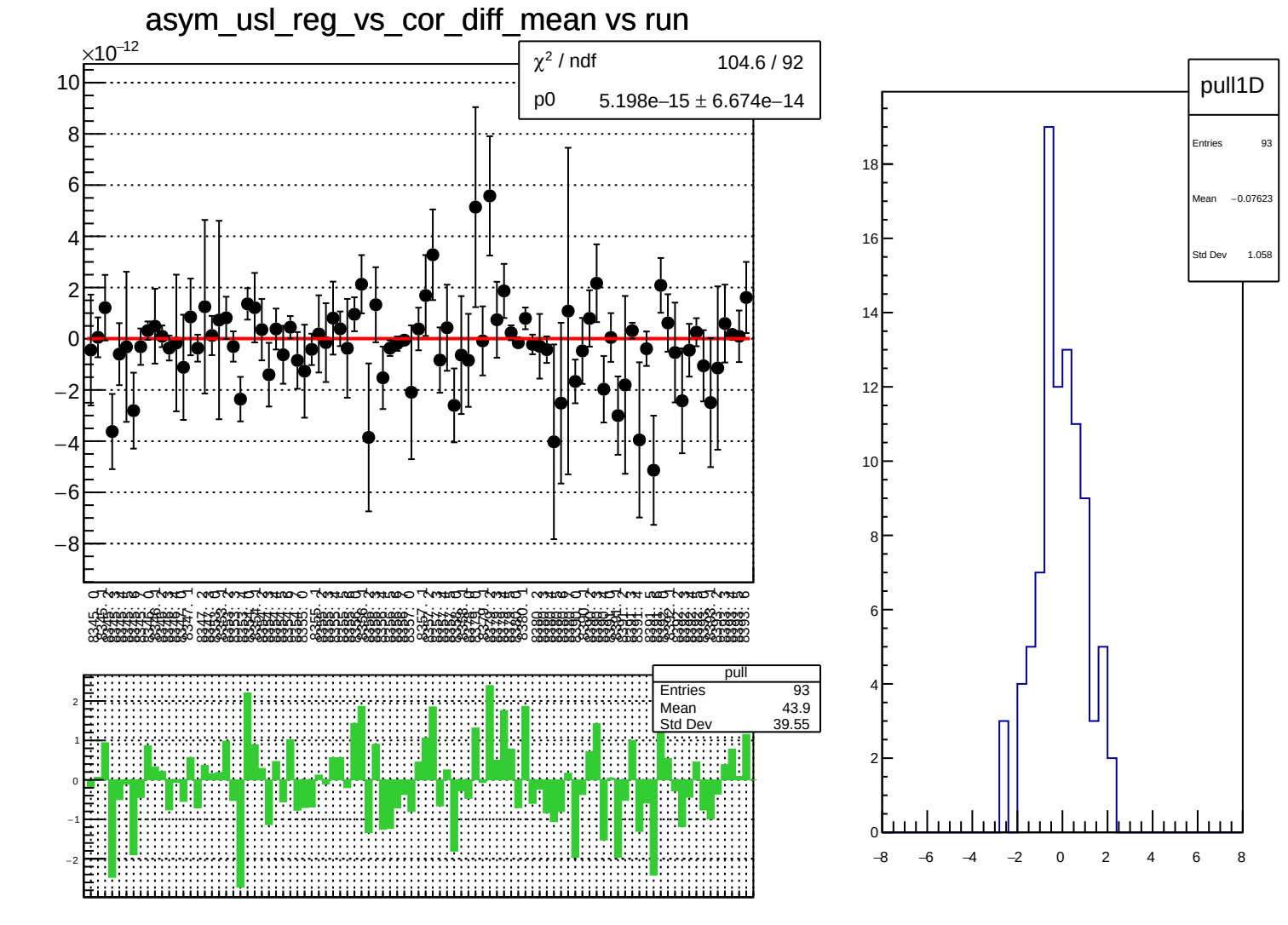

pull1D
Entries 93
Mean −0.01863
Std Dev 0.9378
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

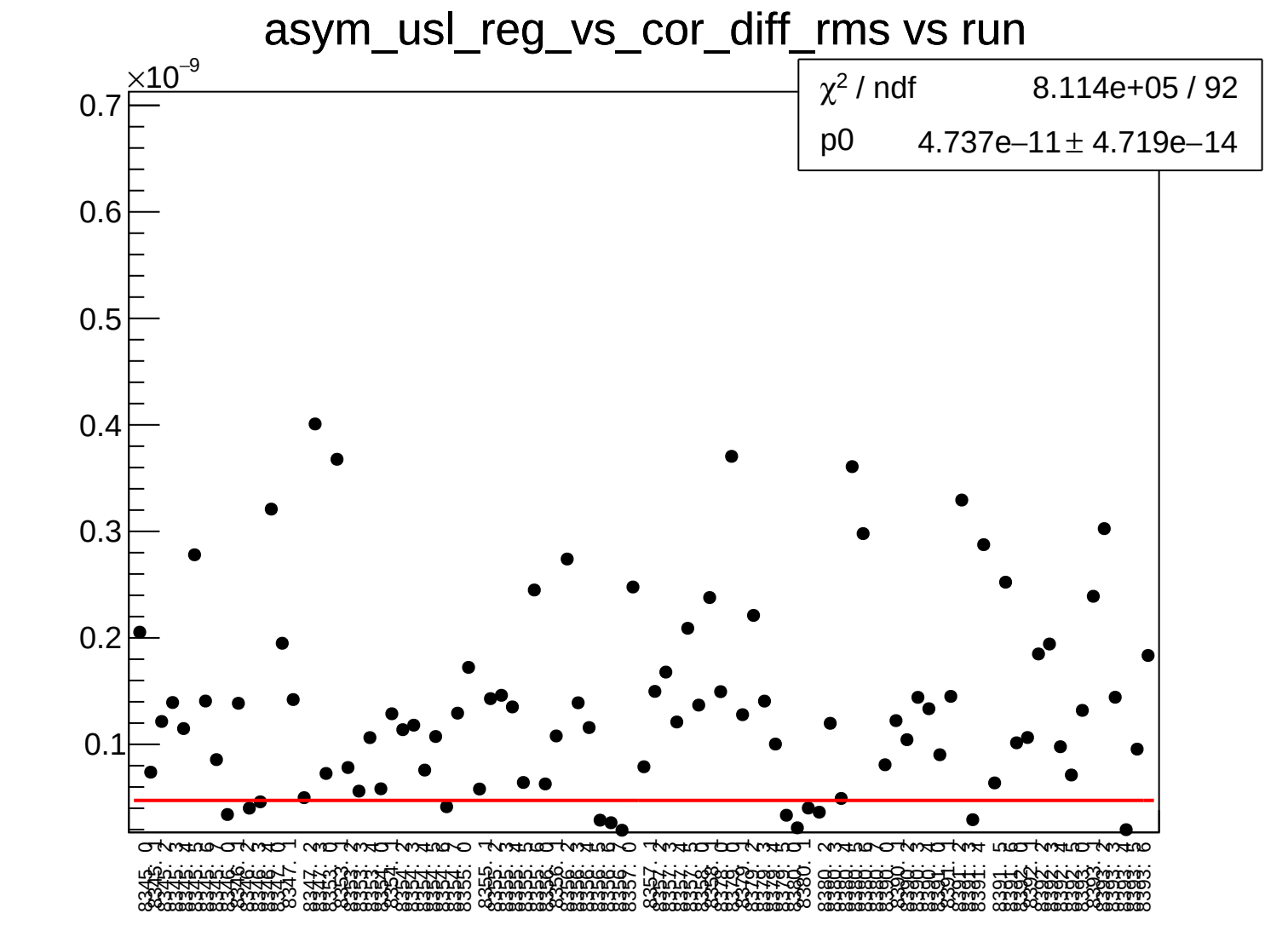

asym_usl_eigen_dit_correction_rms vs run
χ² / ndf 7846 / 92
p0 753.7 ± 0.56
850
800
750
700
650

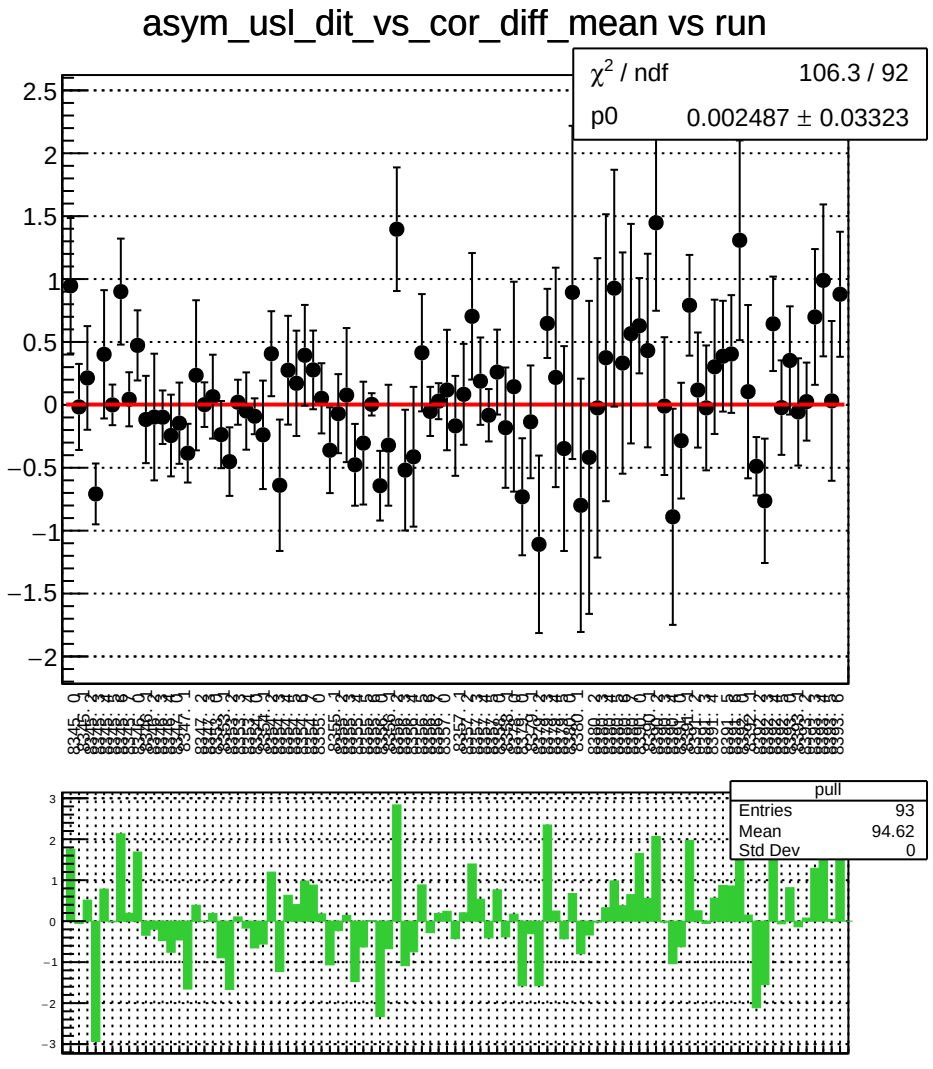

asym_usl_mean vs run
χ² / ndf 86.12 / 92
p0 3850 ± 1383
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −111.7
Std Dev 98.38
2
1
0
−1
−2

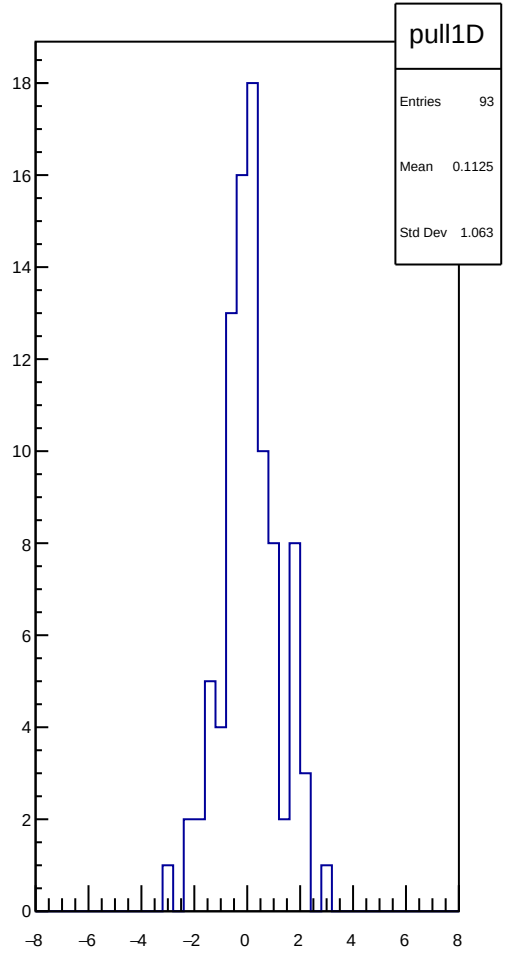

pull1D
Entries 93
Mean 0.001913
Std Dev 0.9623
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

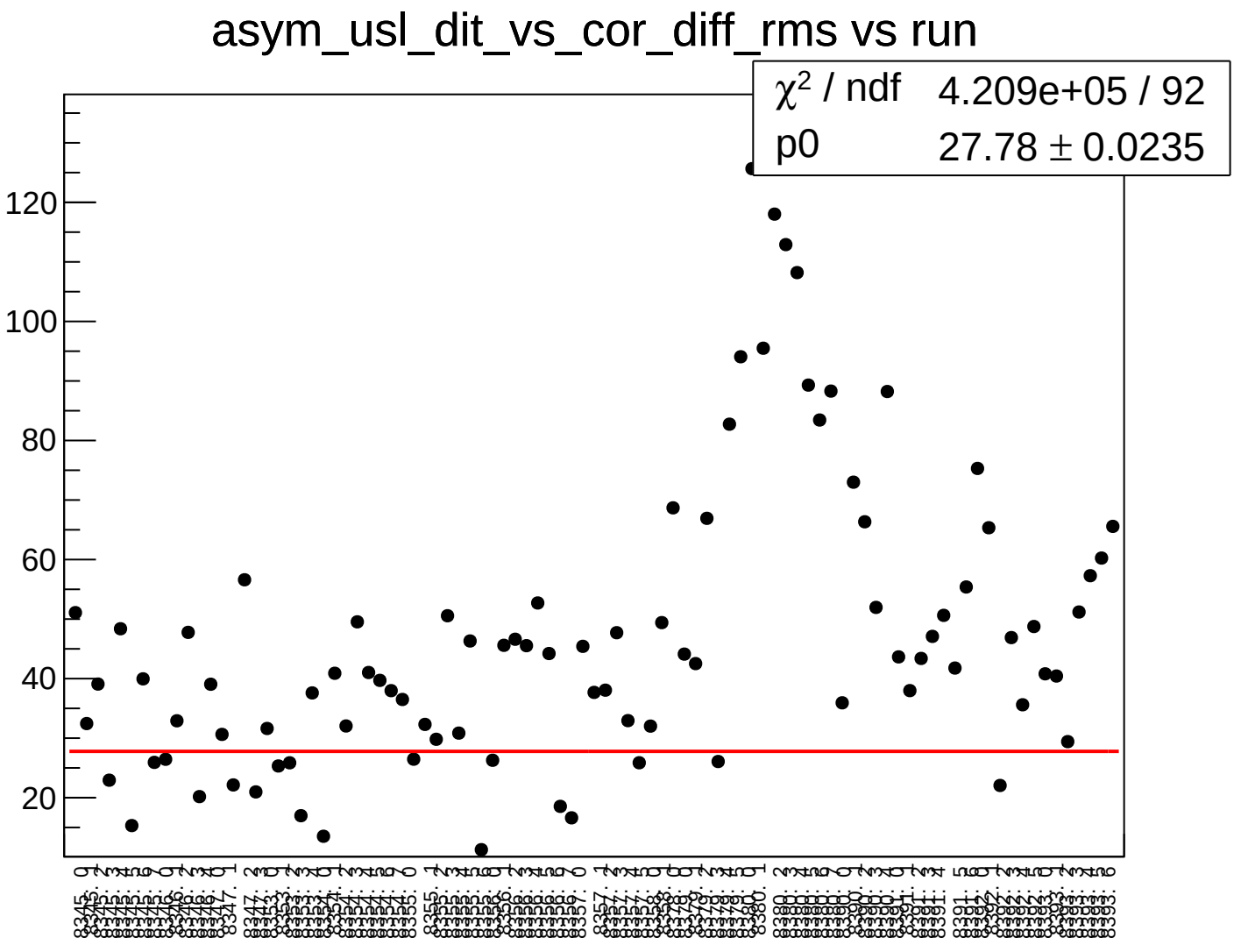

asym_usl_rms vs run
χ² / ndf 2165 / 92
p0 1318 ± 0.9778
1420
1400
1380
1360
1340
1320
1300
1280
1260
1240
1220

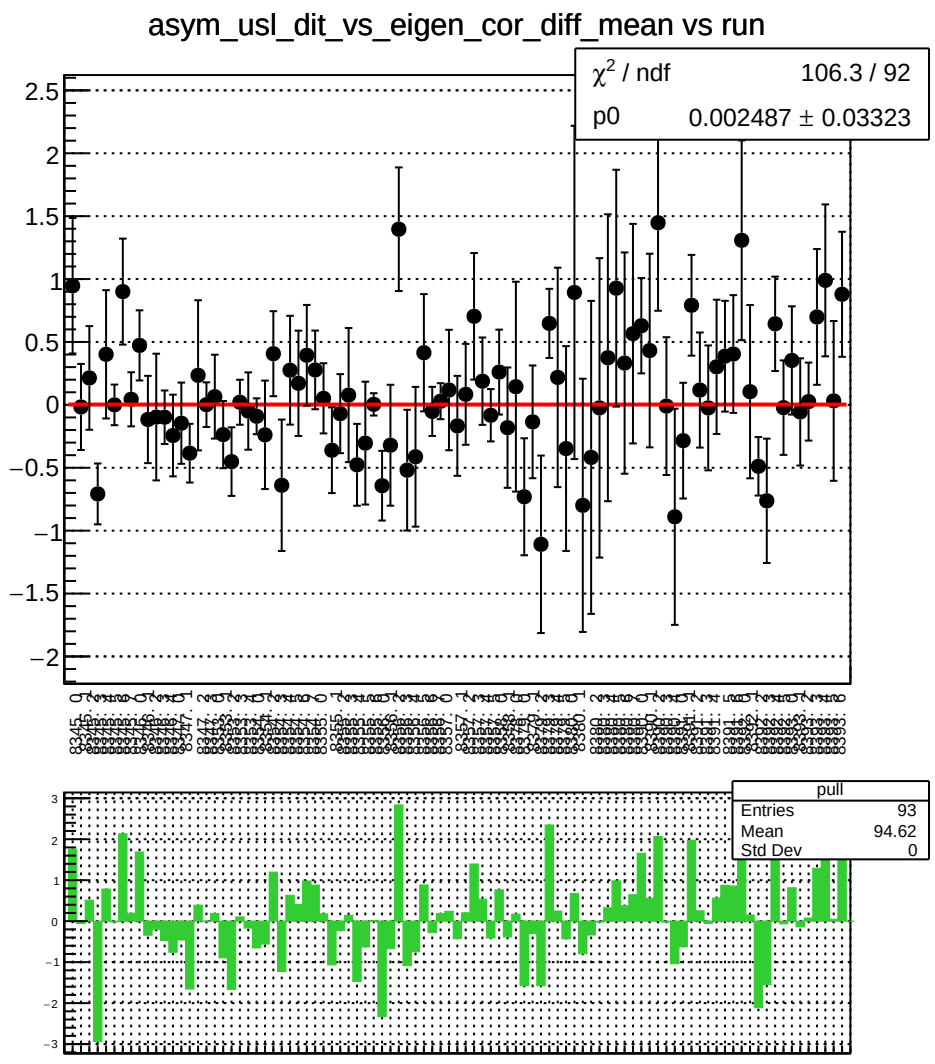

asym_usl_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 104.6 / 92
p0 5.198e−15 ± 6.674e−14
pull
Entries 93
Mean 43.9
Std Dev 39.55
pull1D
Entries 93
Mean −0.07623
Std Dev 1.058

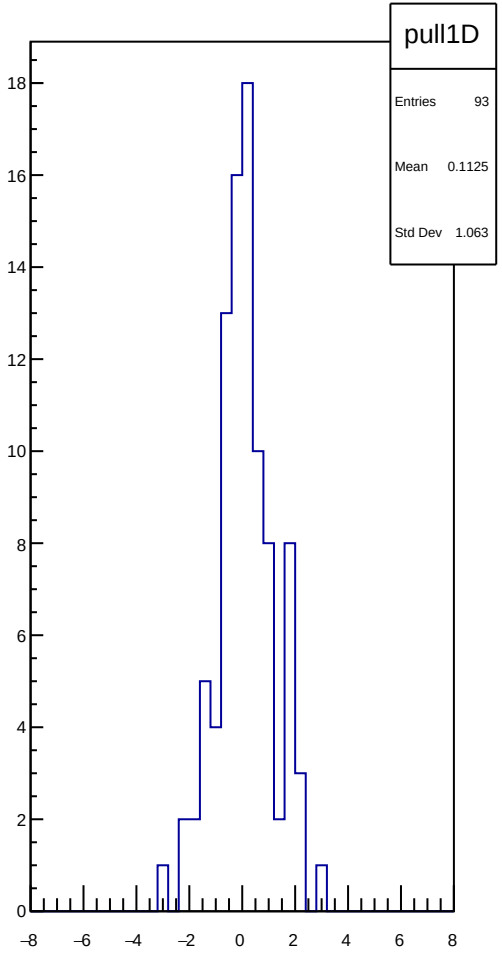

asym_usl_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.114e+05 / 92
p0 4.737e−11 ± 4.719e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

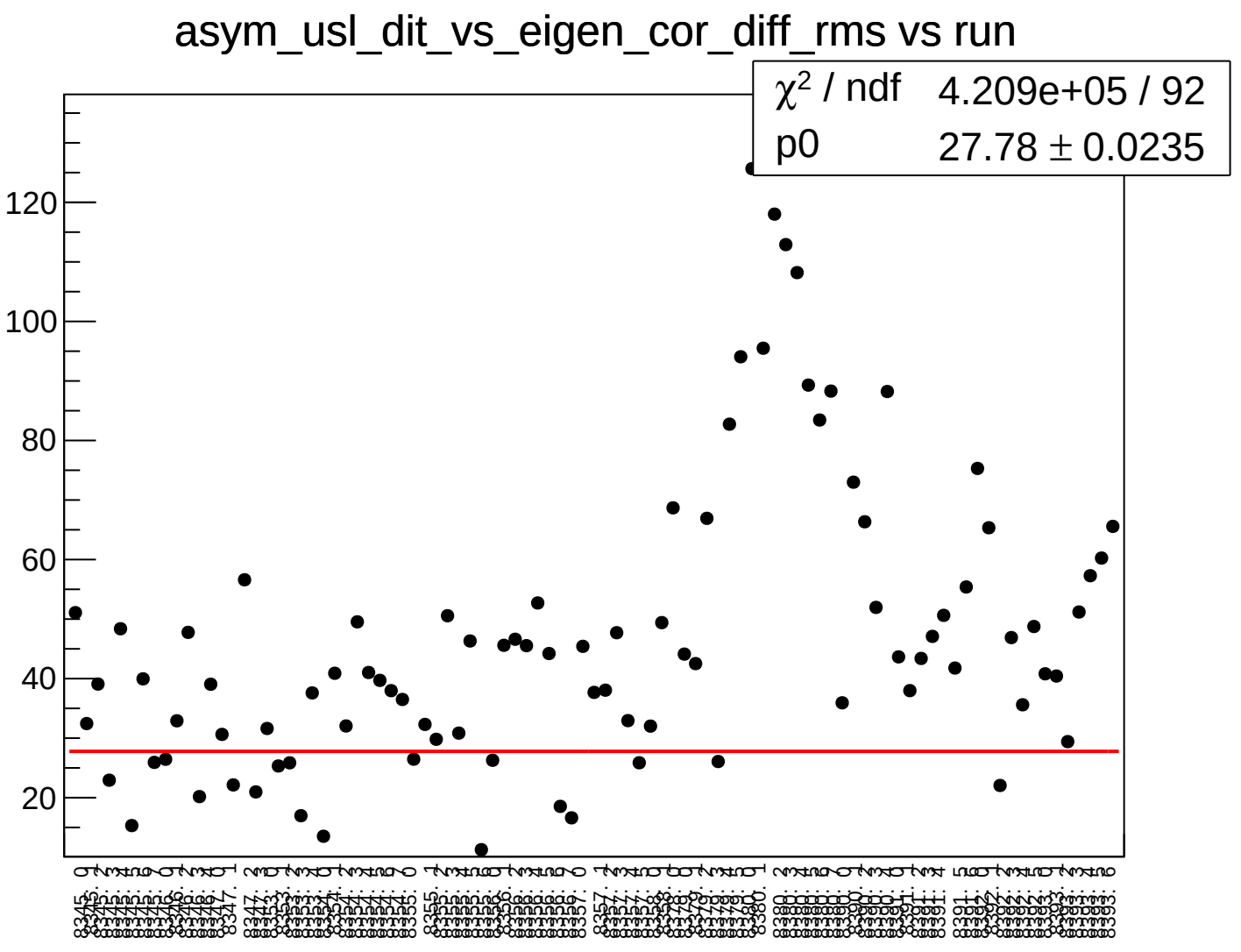

asym_usl_dit_vs_cor_diff_mean vs run
χ² / ndf 106.3 / 92
p0 0.002487 ± 0.03323
pull
Entries 93
Mean 94.62
Std Dev 0

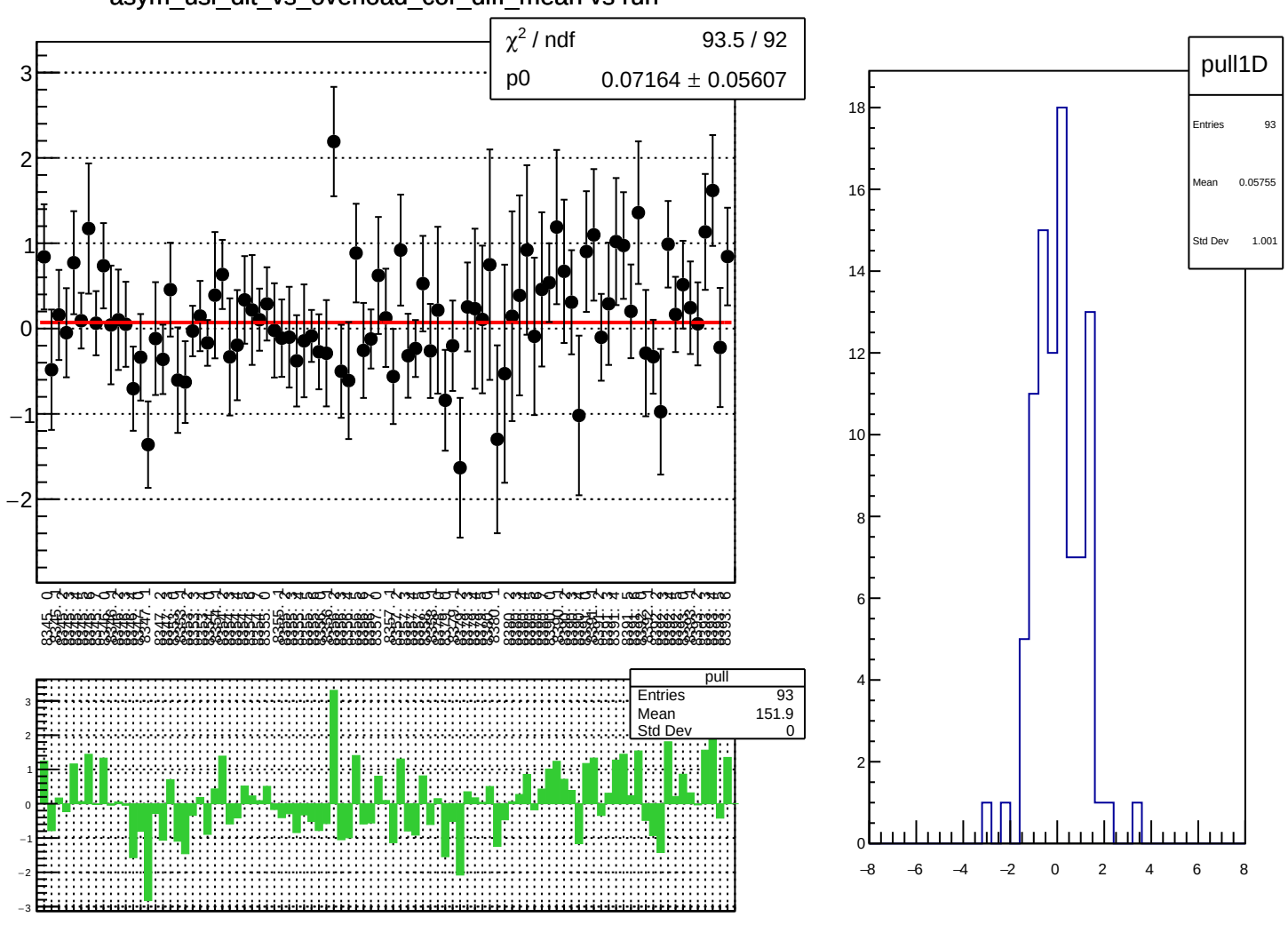

pull1D
Entries 93
Mean 0.1125
Std Dev 1.063

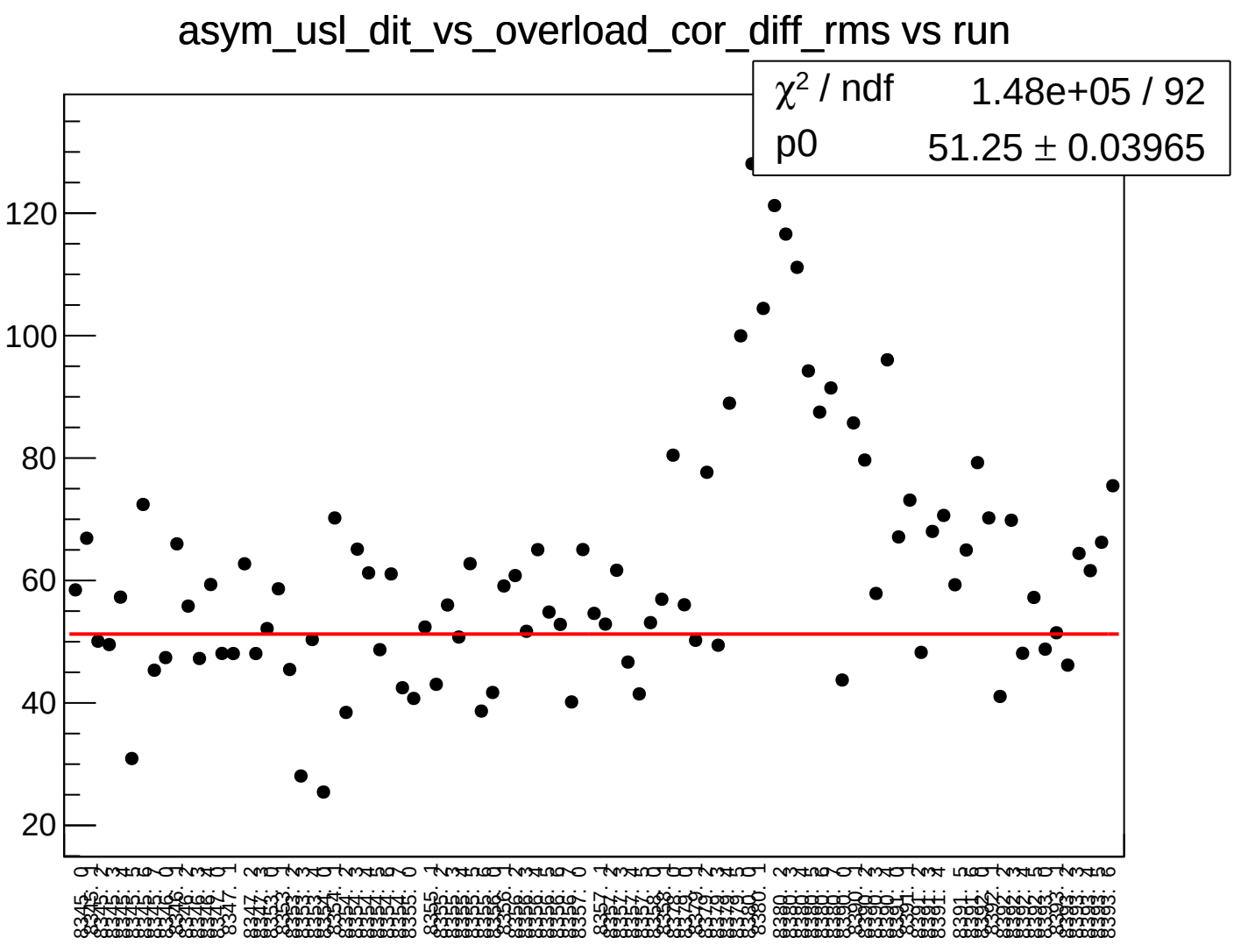

asym_usl_dit_vs_cor_diff_rms vs run
χ² / ndf 4.209e+05 / 92
p0 27.78 ± 0.0235
120
100
80
60
40
20

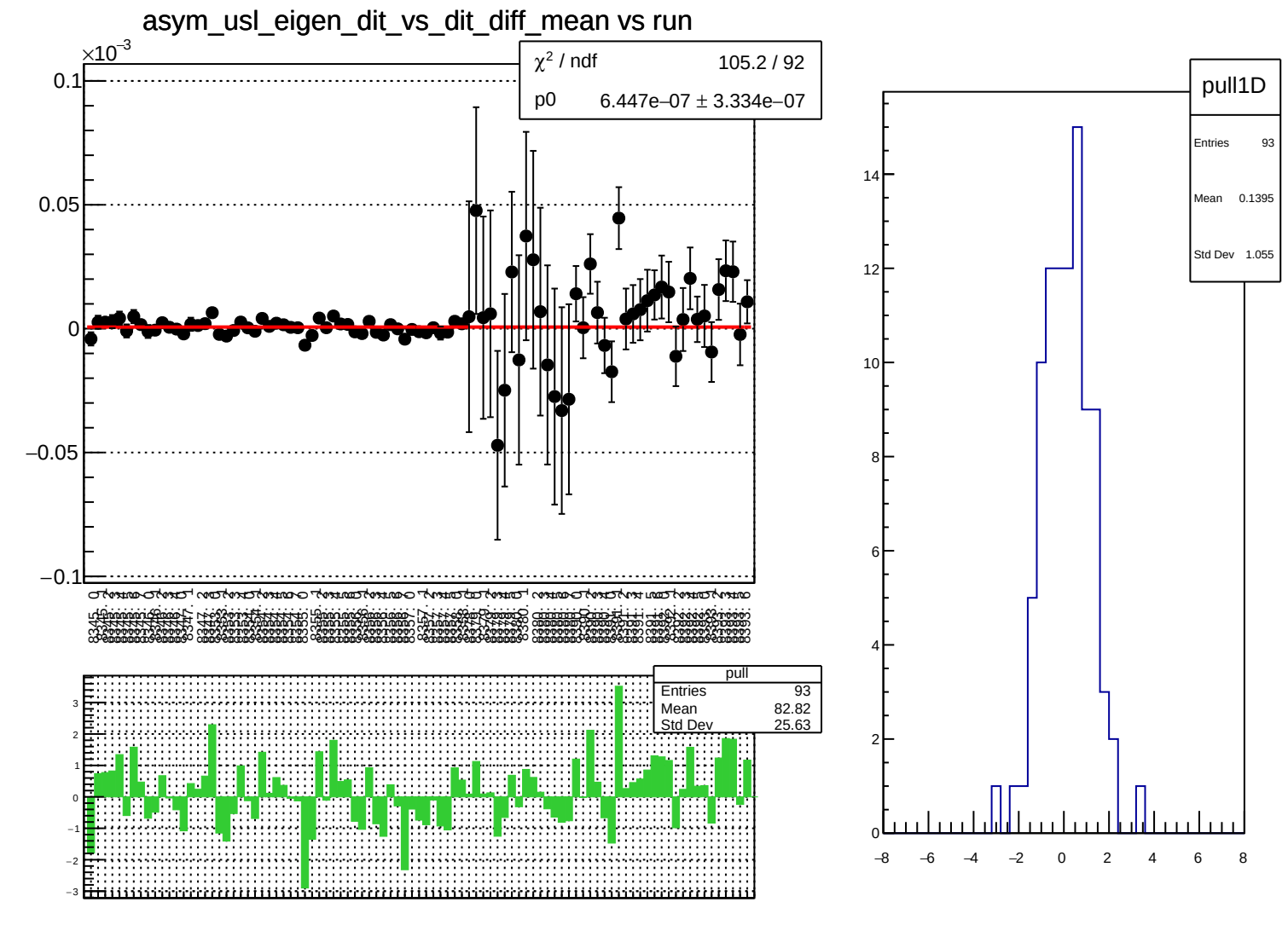

asym_usl_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.3 / 92
p0 0.002487 ± 0.03323
pull
Entries 93
Mean 94.62
Std Dev 0

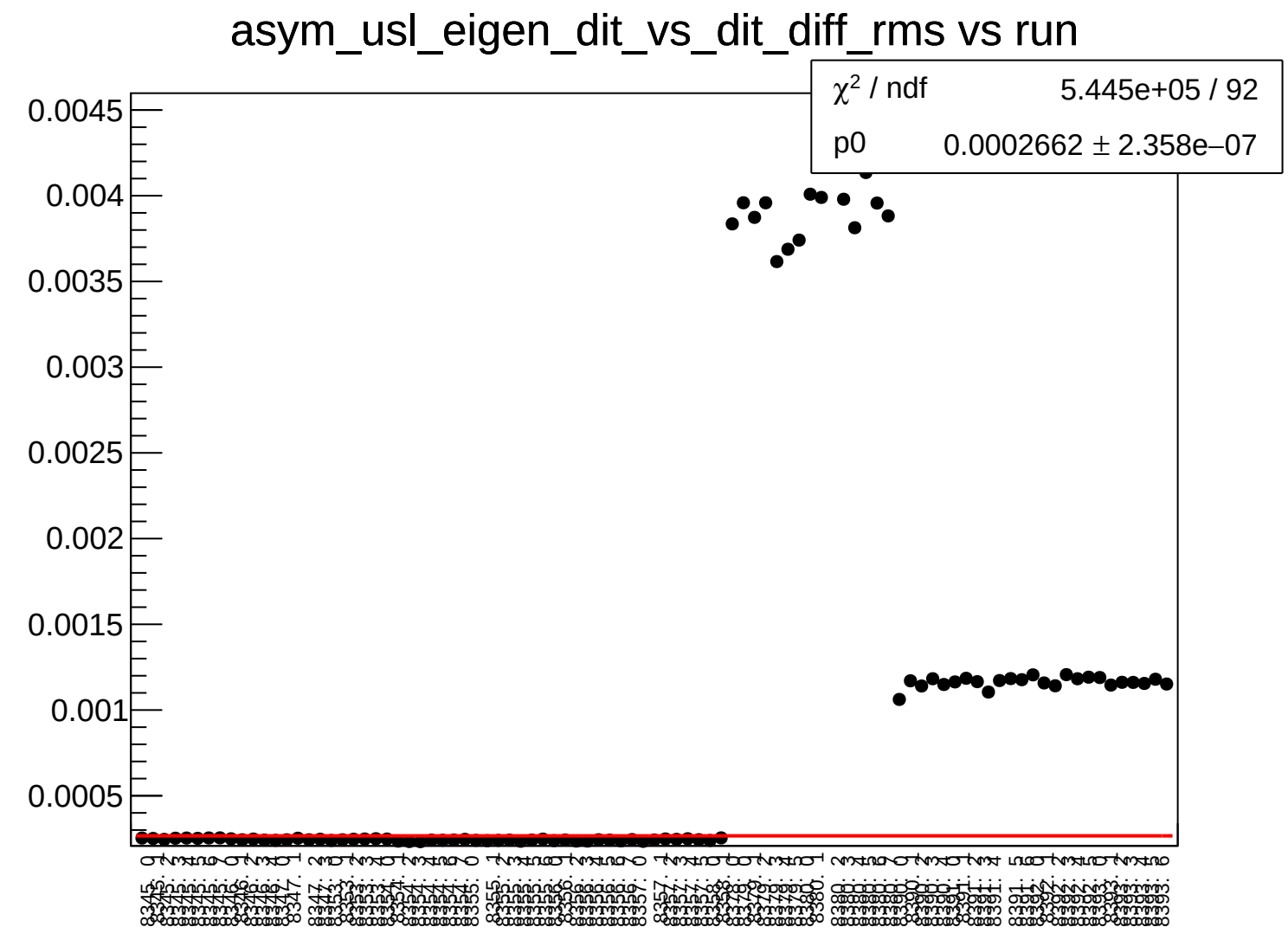

pull1D
Entries 93
Mean 0.1125
Std Dev 1.063

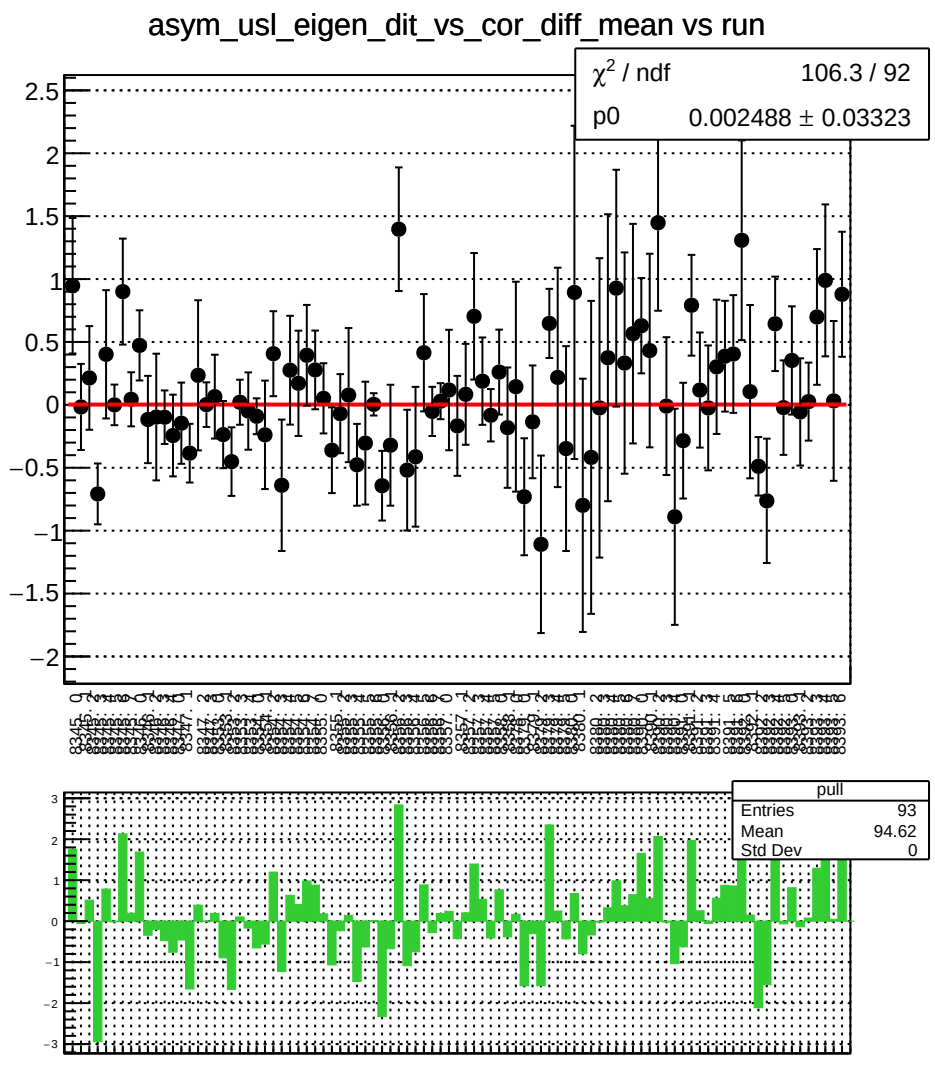

asym_usl_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.209e+05 / 92
p0 27.78 ± 0.0235
120
100
80
60
40
20

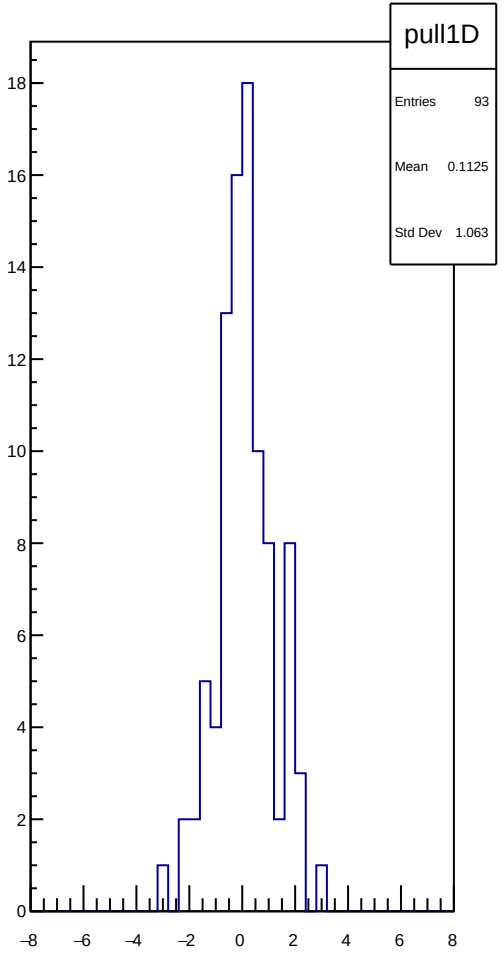

asym_usl_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 93.5 / 92
p0 0.07164 ± 0.05607
pull
Entries 93
Mean 151.9
Std Dev 0
pull1D
Entries 93
Mean 0.05755
Std Dev 1.001

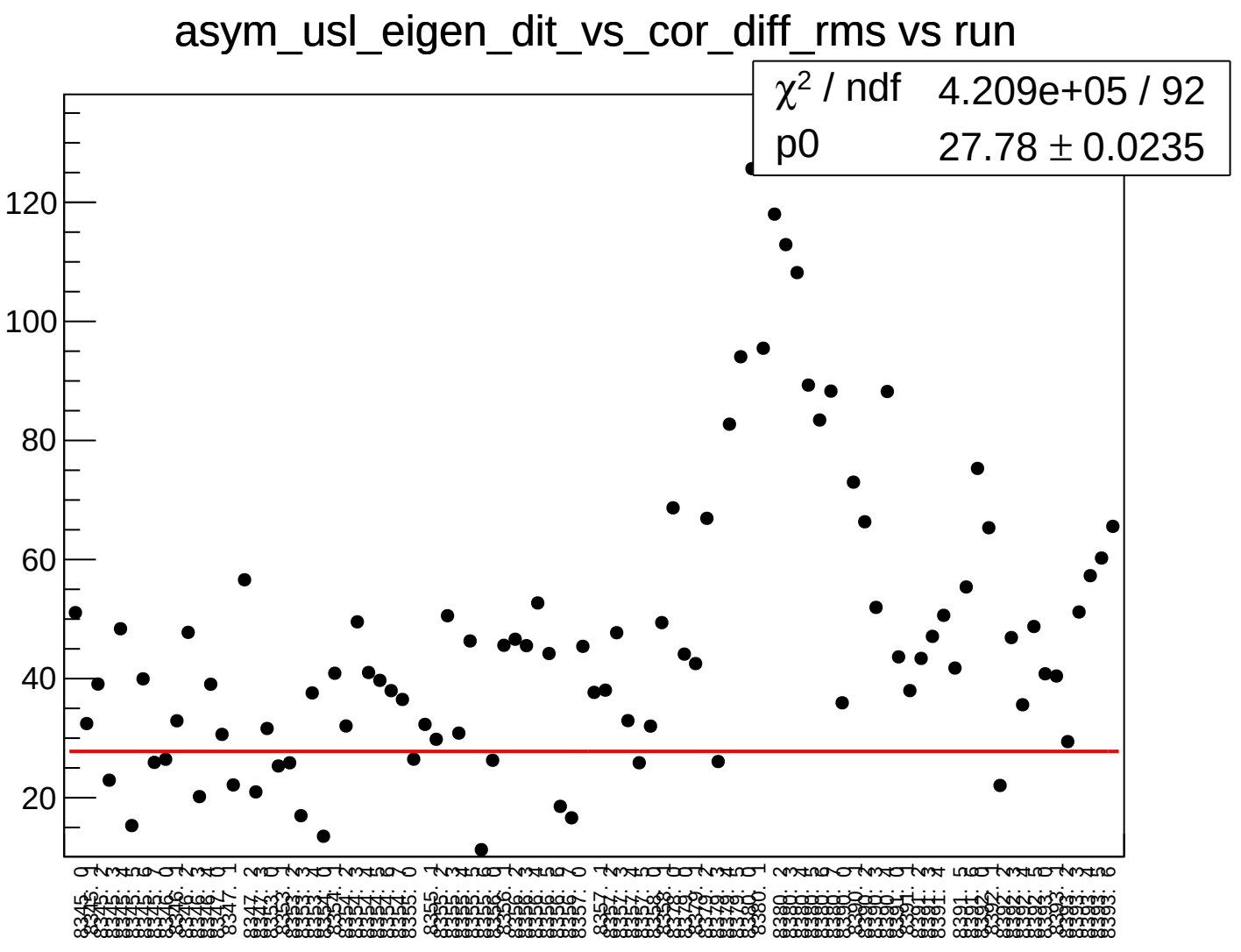

asym_usl_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.48e+05 / 92
p0 51.25 ± 0.03965
120
100
80
60
40
20

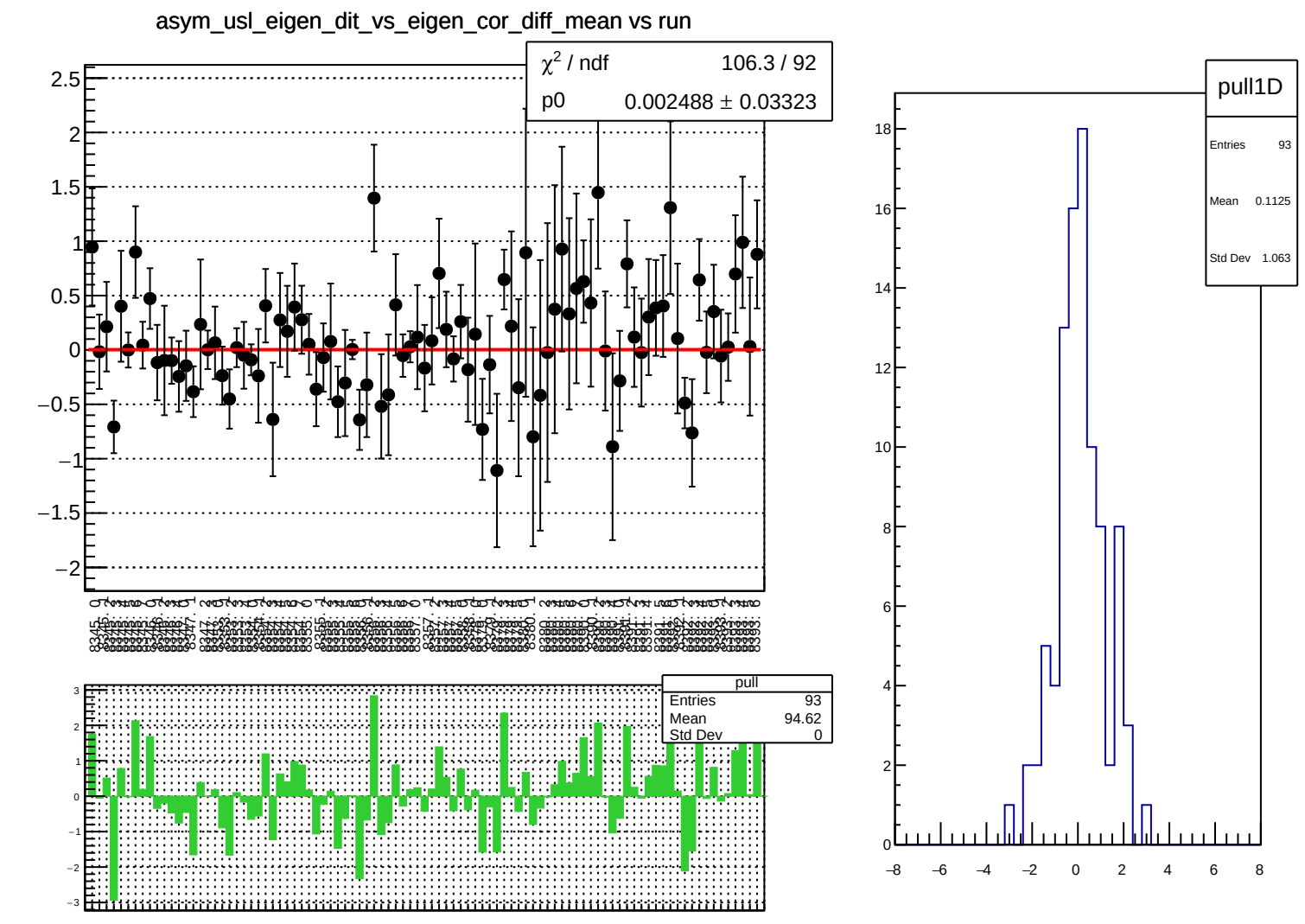

asym_usl_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 105.2 / 92
p0 6.447e−07 ± 3.334e−07
pull
Entries 93
Mean 82.82
Std Dev 25.63
pull1D
Entries 93
Mean 0.1395
Std Dev 1.055

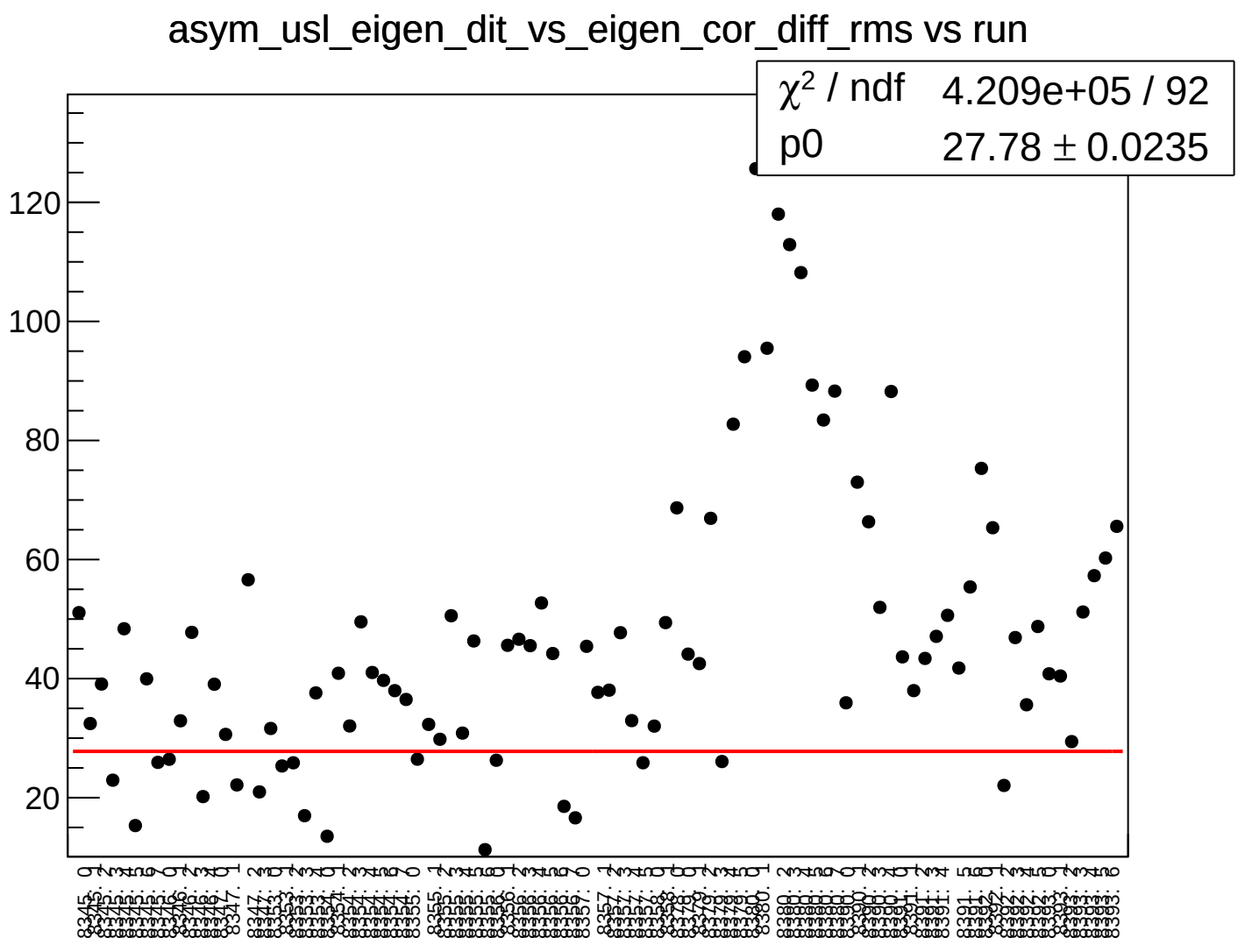

asym_usl_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.445e+05 / 92
p0 0.0002662 ± 2.358e−07
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005

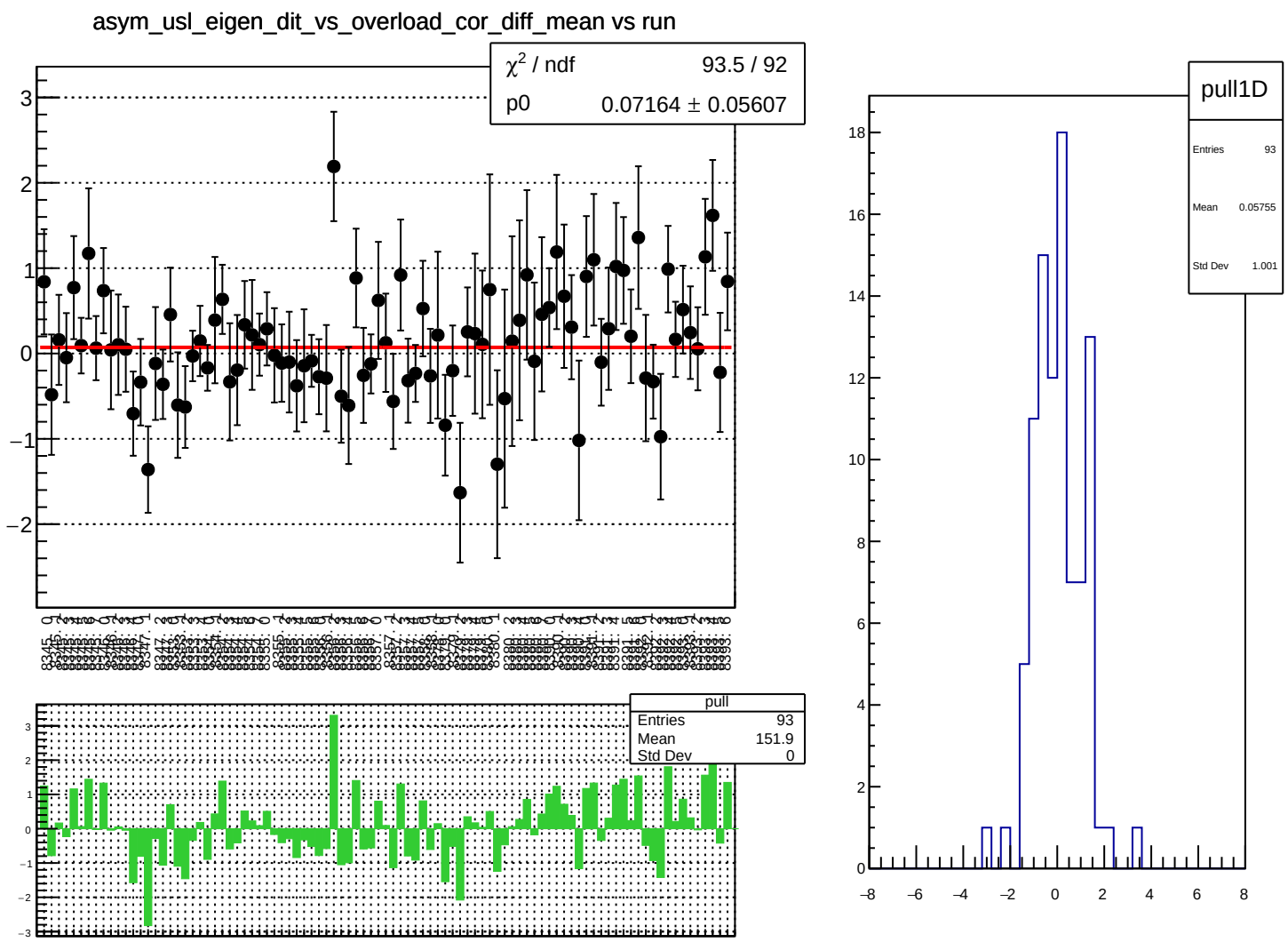

asym_usl_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 106.3 / 92
p0 0.002488 ± 0.03323
pull
Entries 93
Mean 94.62
Std Dev 0

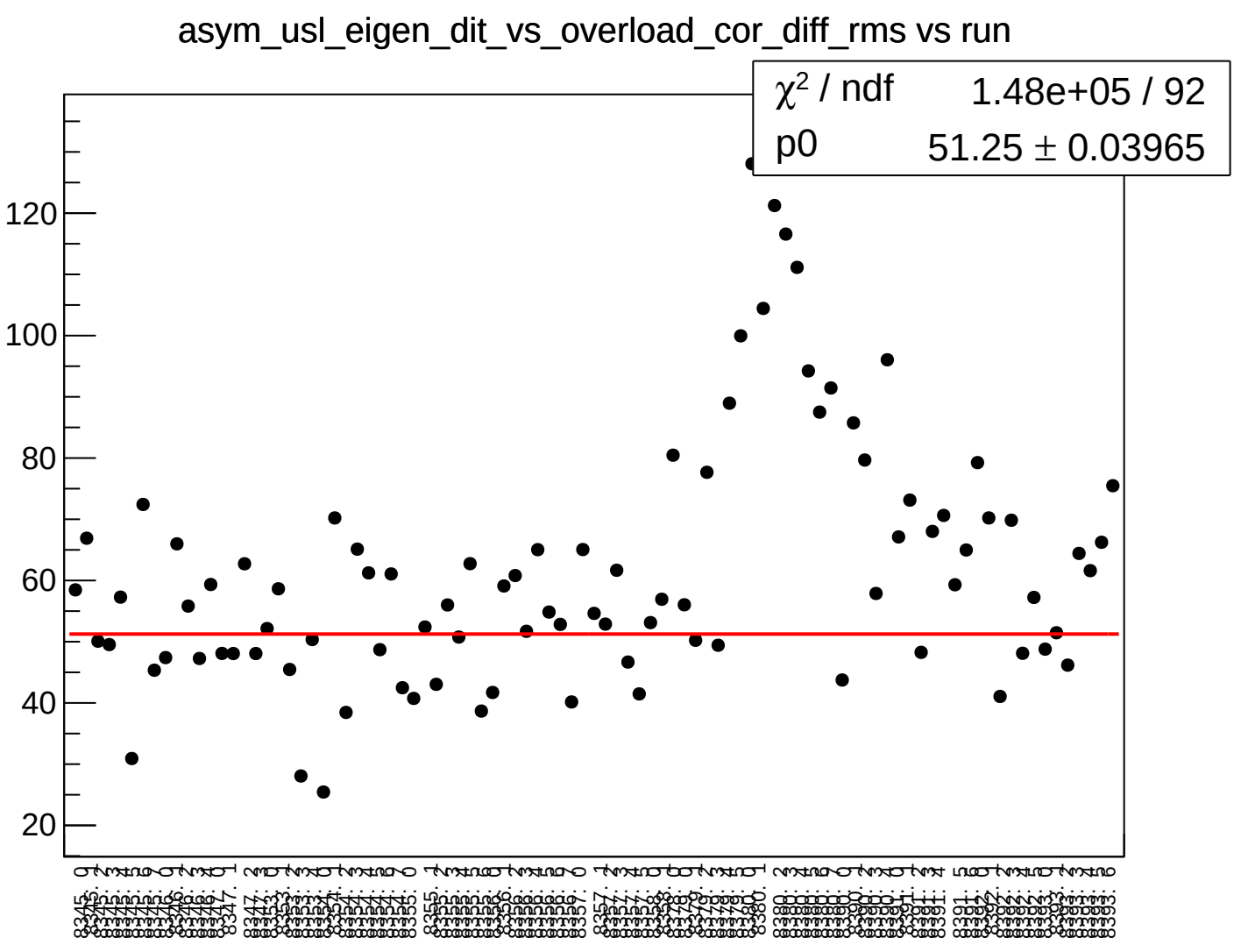

pull1D
Entries 93
Mean 0.1125
Std Dev 1.063

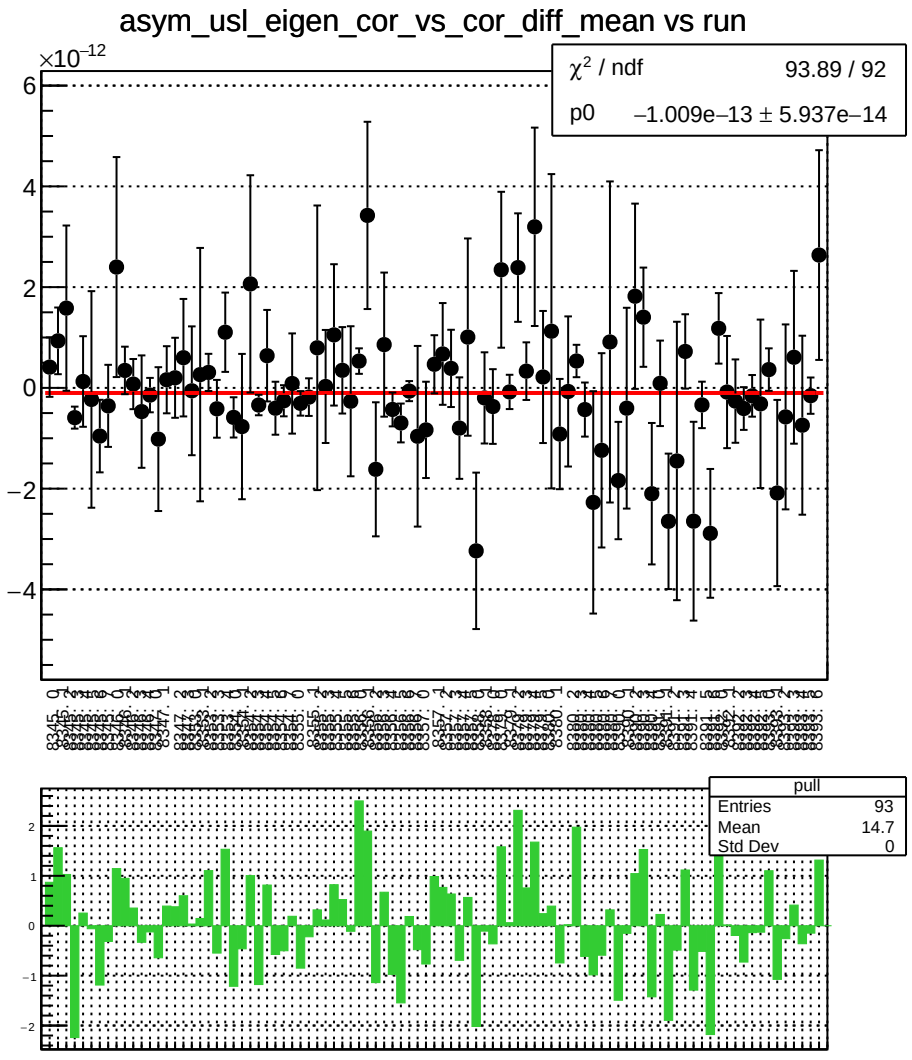

asym_usl_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.209e+05 / 92
p0 27.78 ± 0.0235
120
100
80
60
40
20

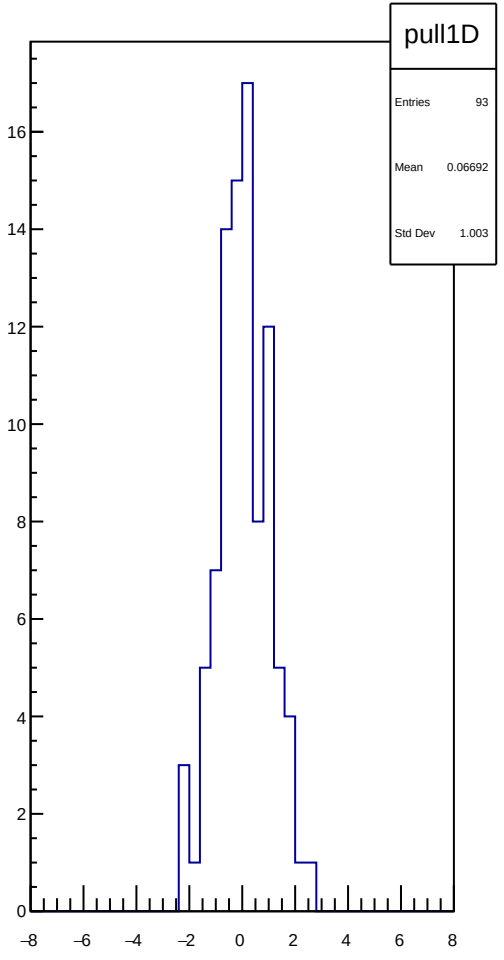

asym_usl_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.3 / 92
p0 0.002488 ± 0.03323
pull
Entries 93
Mean 94.62
Std Dev 0
pull1D
Entries 93
Mean 0.1125
Std Dev 1.063

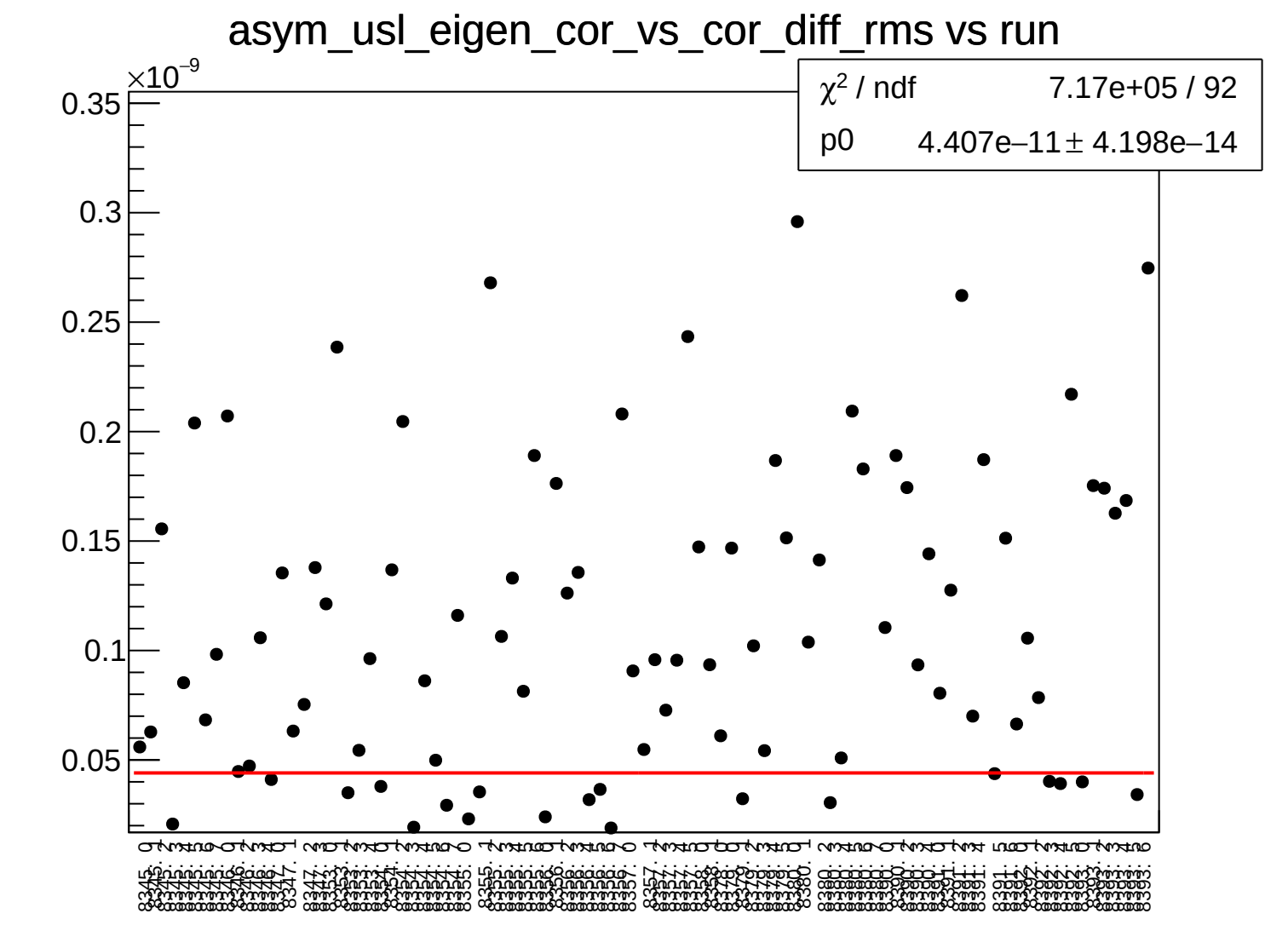

asym_usl_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.209e+05 / 92
p0 27.78 ± 0.0235
120
100
80
60
40
20

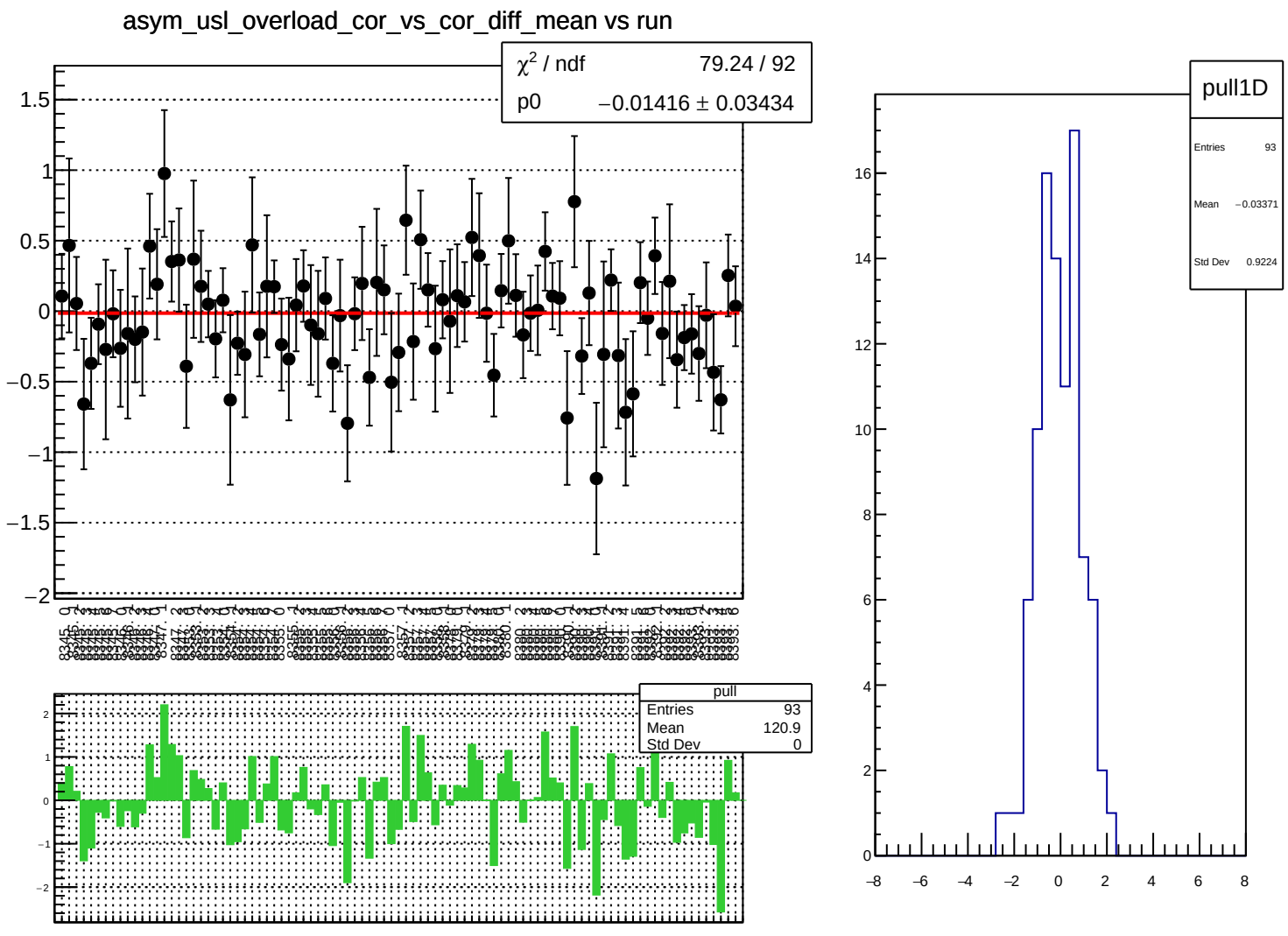

asym_usl_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 93.5 / 92
p0 0.07164 ± 0.05607
pull
Entries 93
Mean 151.9
Std Dev 0
pull1D
Entries 93
Mean 0.05755
Std Dev 1.001

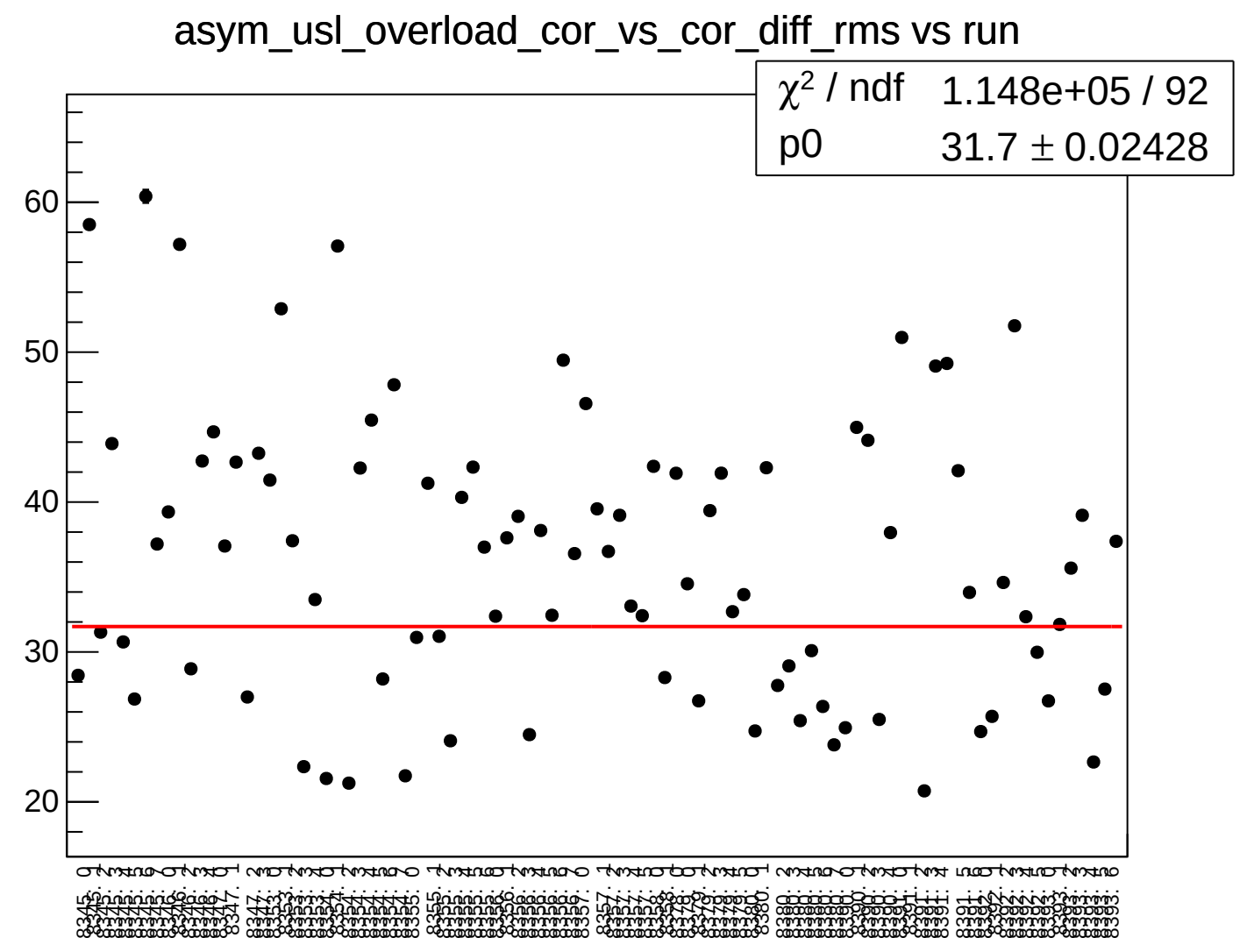

asym_usl_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.48e+05 / 92
p0 51.25 ± 0.03965
120
100
80
60
40
20

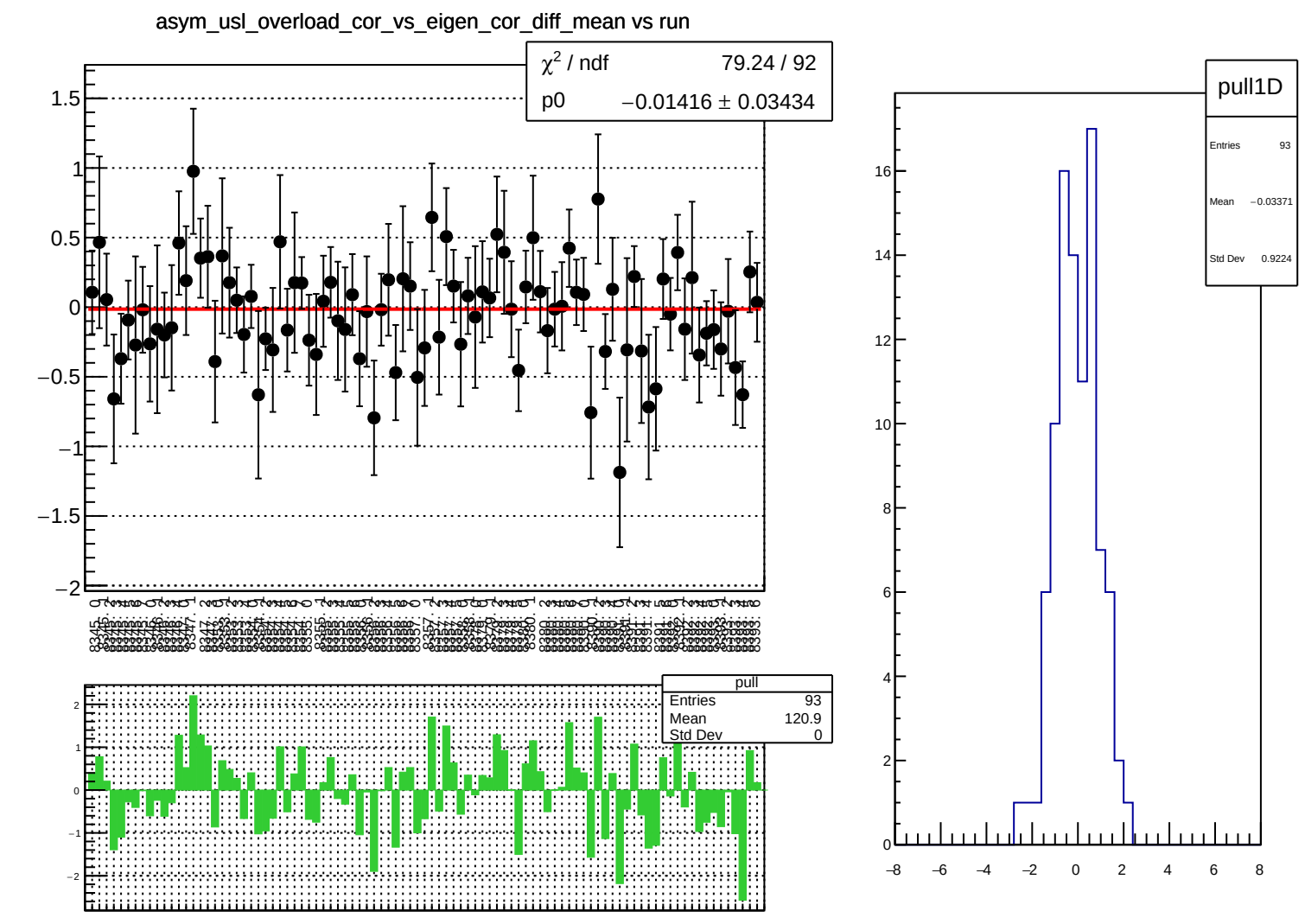

asym_usl_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.89 / 92
p0 −1.009e−13 ± 5.937e−14
pull
Entries 93
Mean 14.7
Std Dev 0

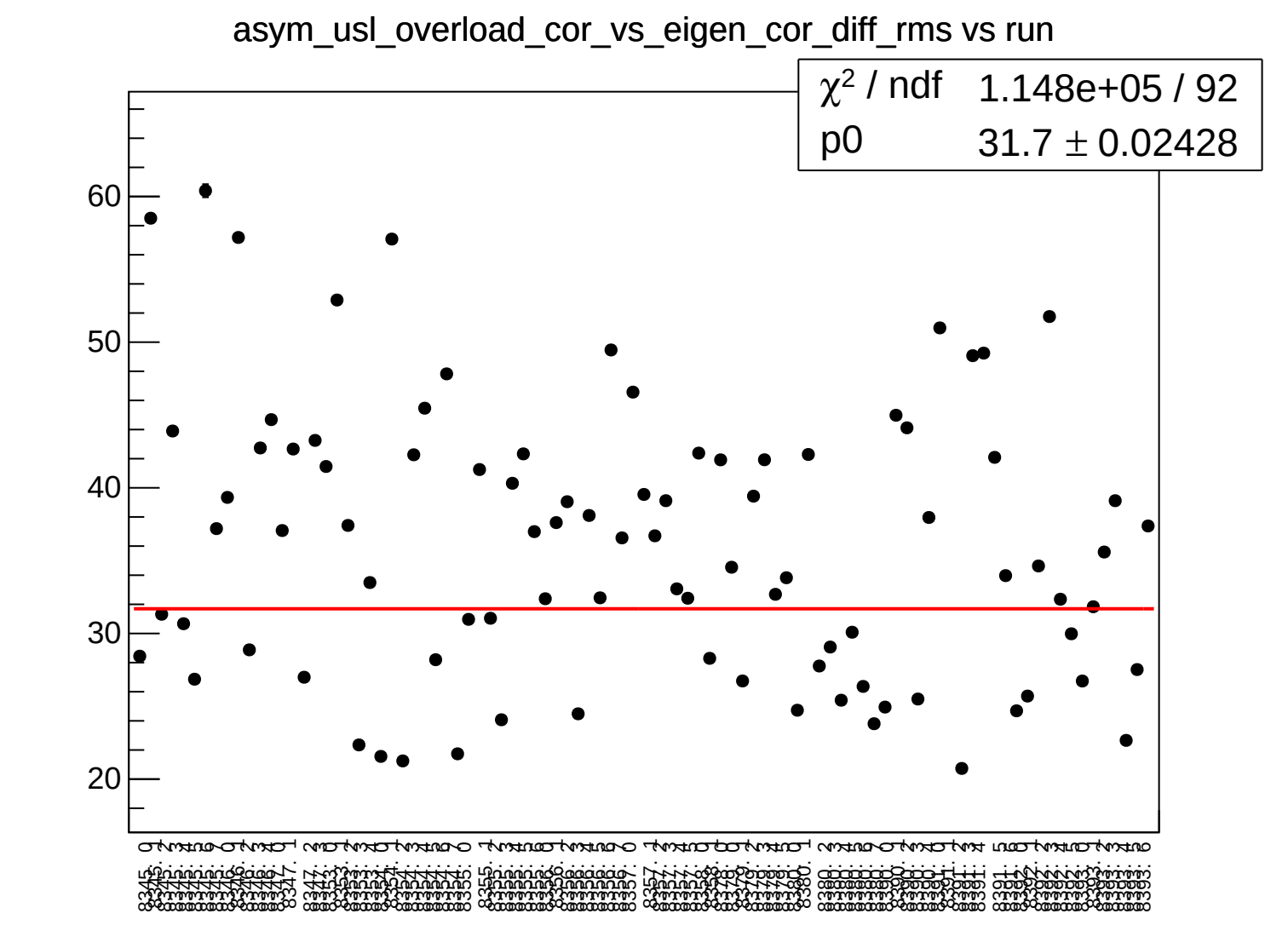

pull1D
Entries 93
Mean 0.06692
Std Dev 1.003

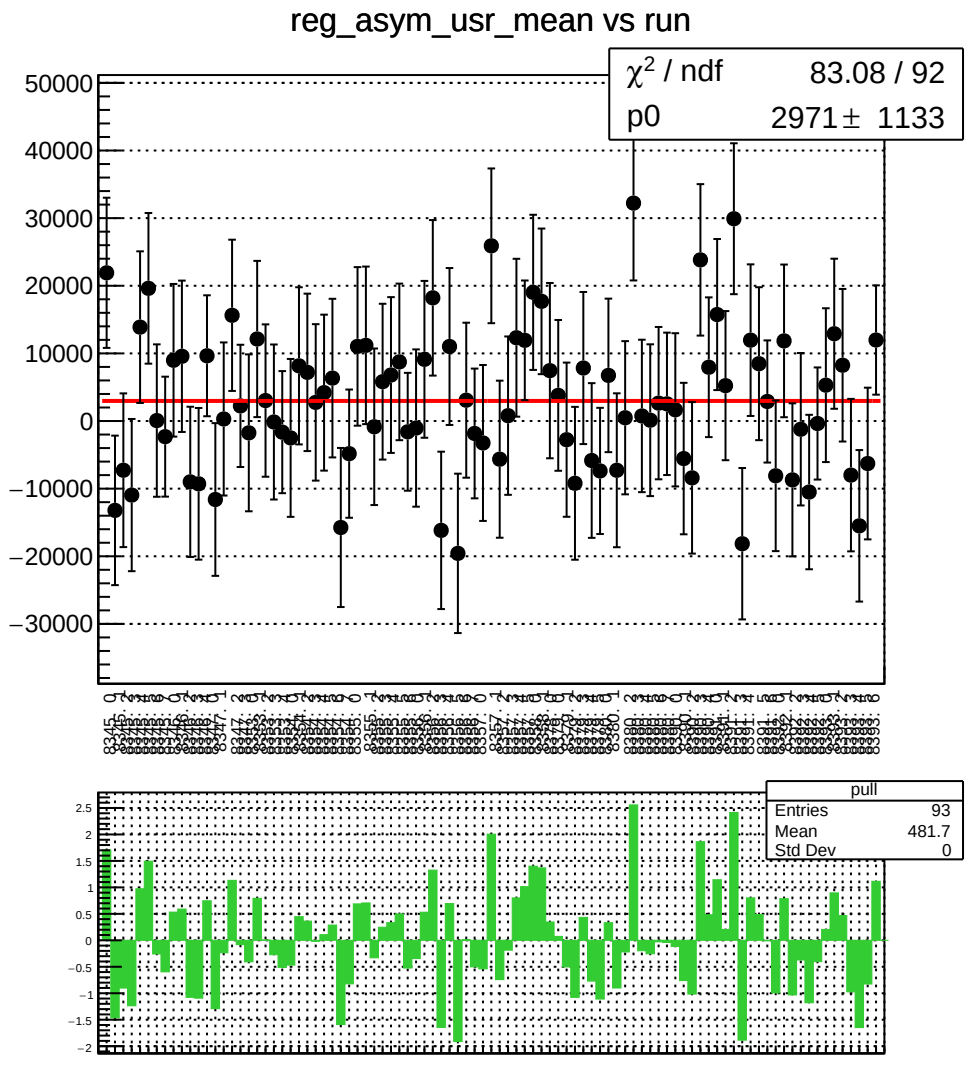

asym_usl_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.17e+05 / 92
p0 4.407e−11 ± 4.198e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

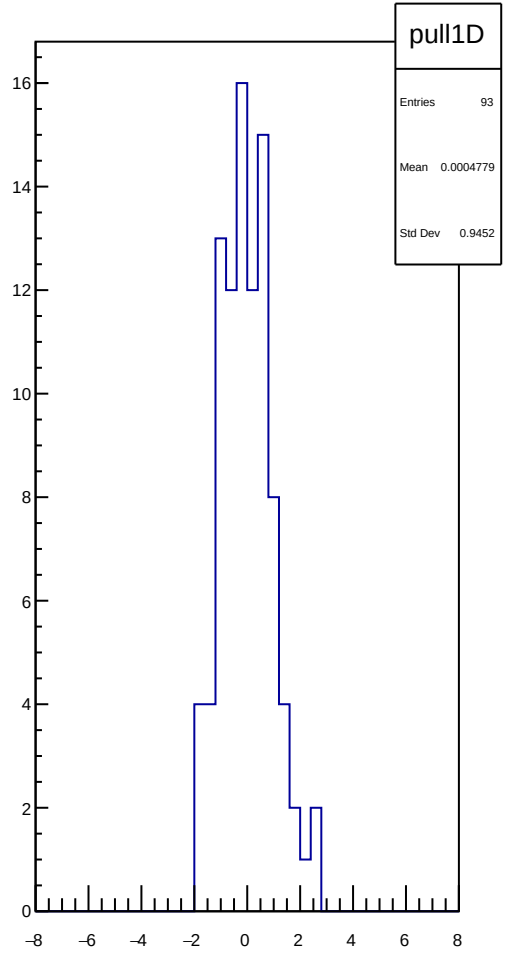

asym_usl_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 79.24 / 92
p0 −0.01416 ± 0.03434
pull
Entries 93
Mean 120.9
Std Dev 0
pull1D
Entries 93
Mean −0.03371
Std Dev 0.9224

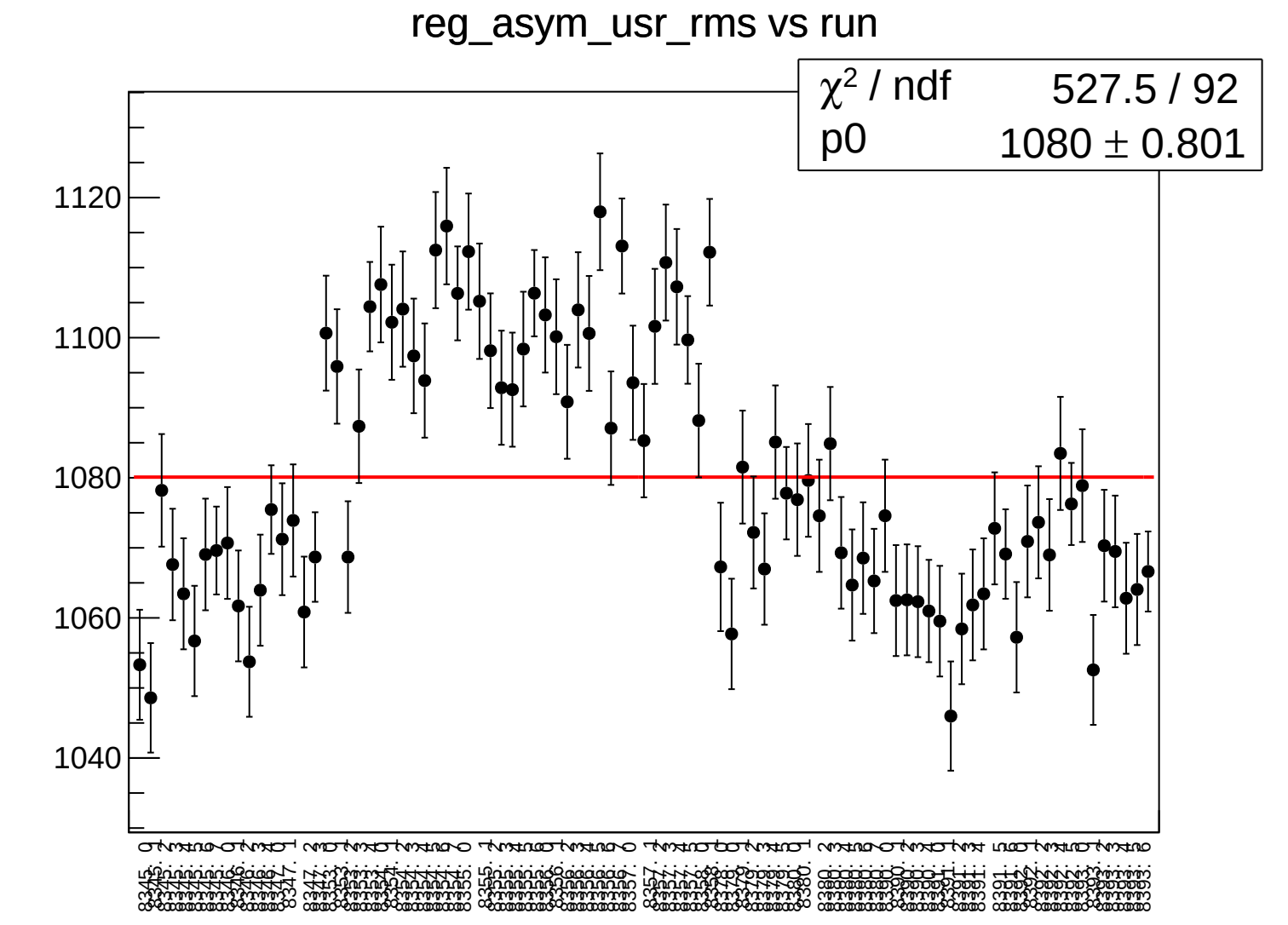

asym_usl_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.148e+05 / 92
p0 31.7 ± 0.02428
60
50
40
30
20

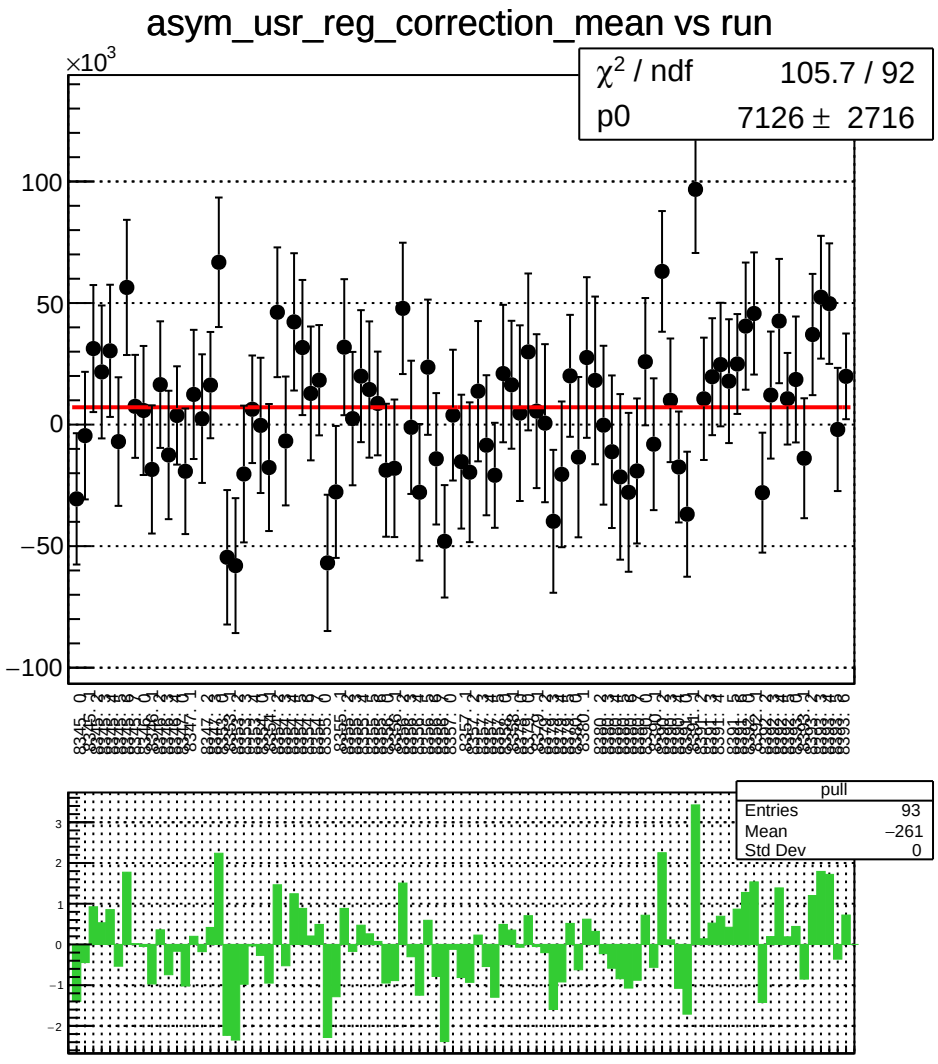

asym_usl_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.24 / 92
p0 −0.01416 ± 0.03434
pull
Entries 93
Mean 120.9
Std Dev 0
pull1D
Entries 93
Mean −0.03371
Std Dev 0.9224

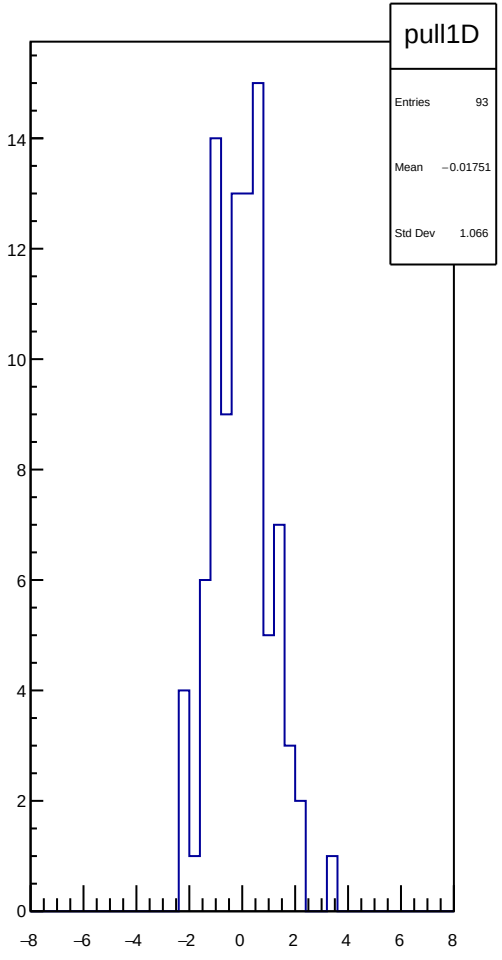

asym_usl_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.148e+05 / 92
p0 31.7 ± 0.02428
60
50
40
30
20

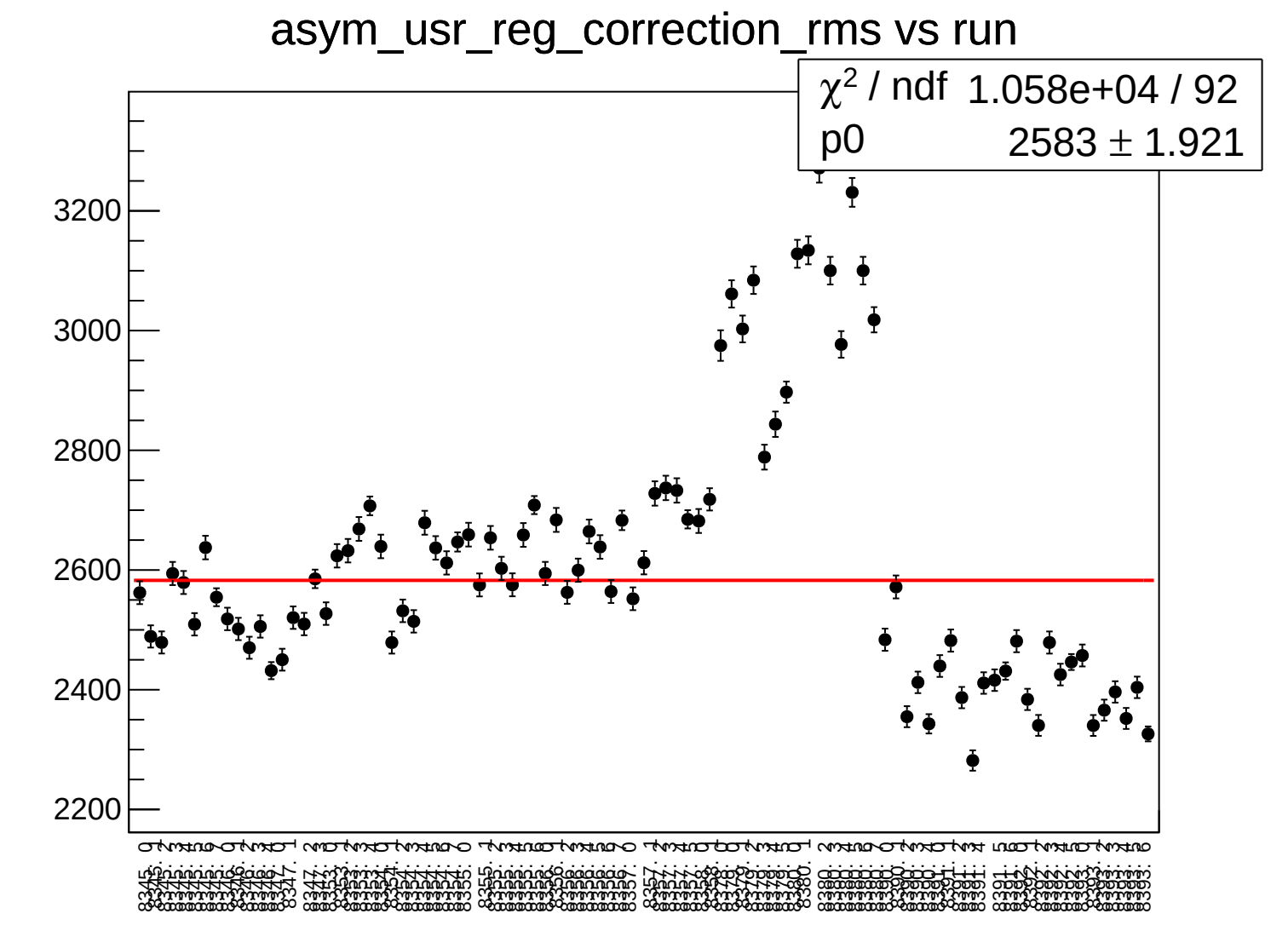

reg_asym_usr_mean vs run
χ² / ndf 83.08 / 92
p0 2971 ± 1133
pull
Entries 93
Mean 481.7
Std Dev 0

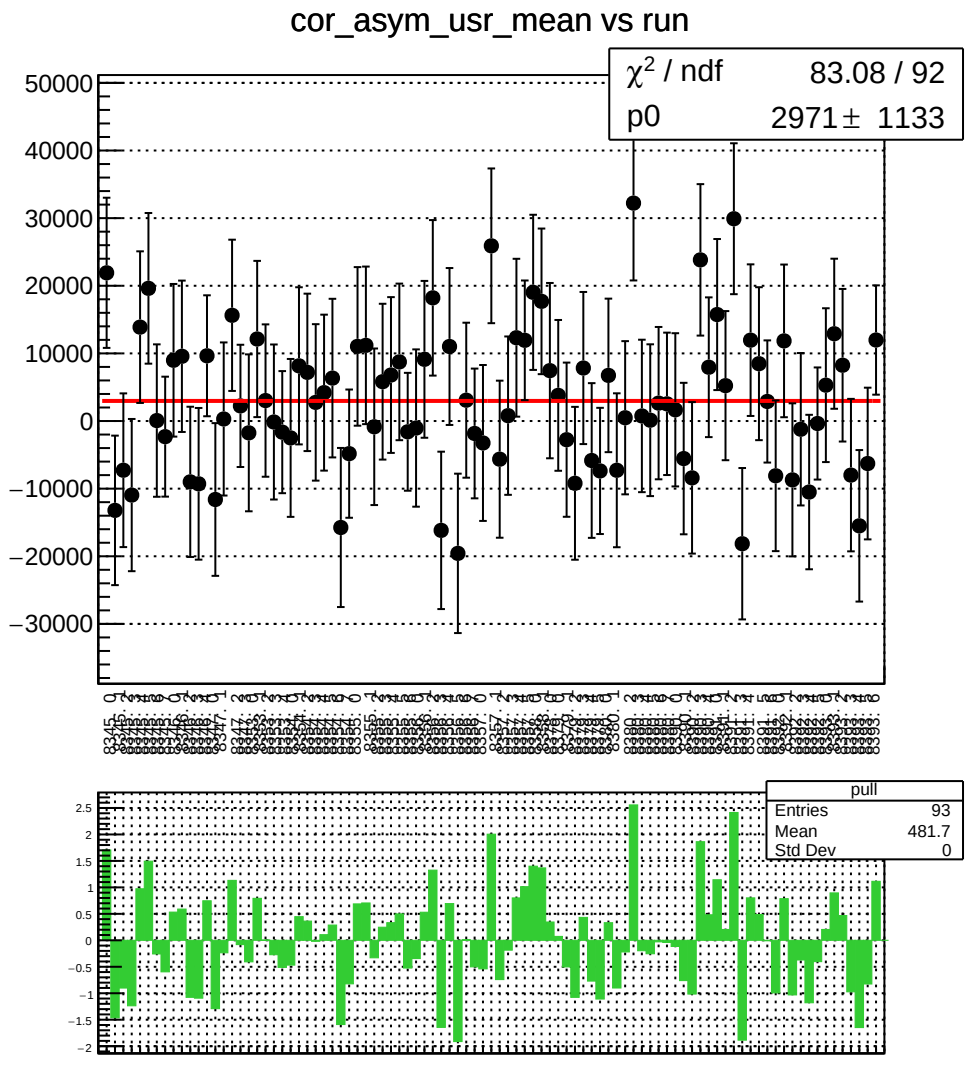

pull1D
Entries 93
Mean 0.0004779
Std Dev 0.9452

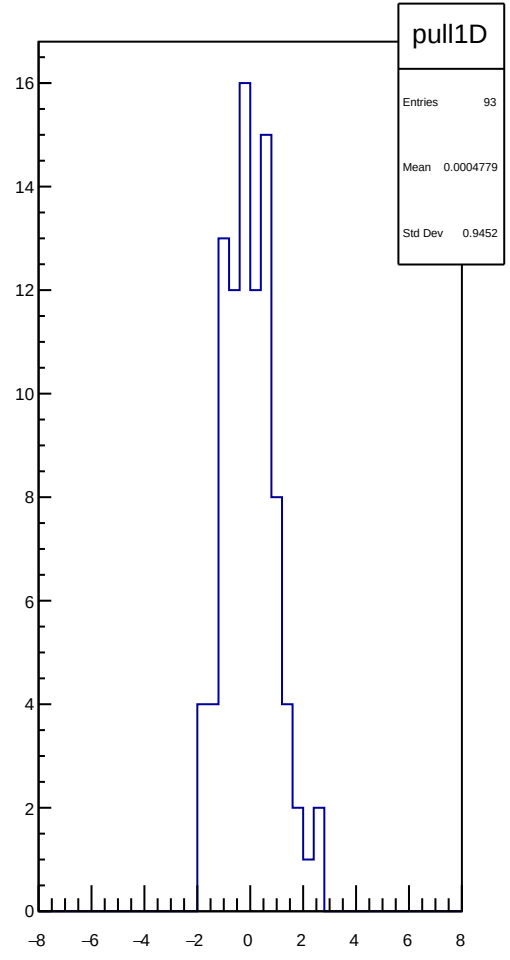

reg_asym_usr_rms vs run
χ^2 / ndf 527.5 / 92
p0 1080 ± 0.801
1120
1100
1080
1060
1040

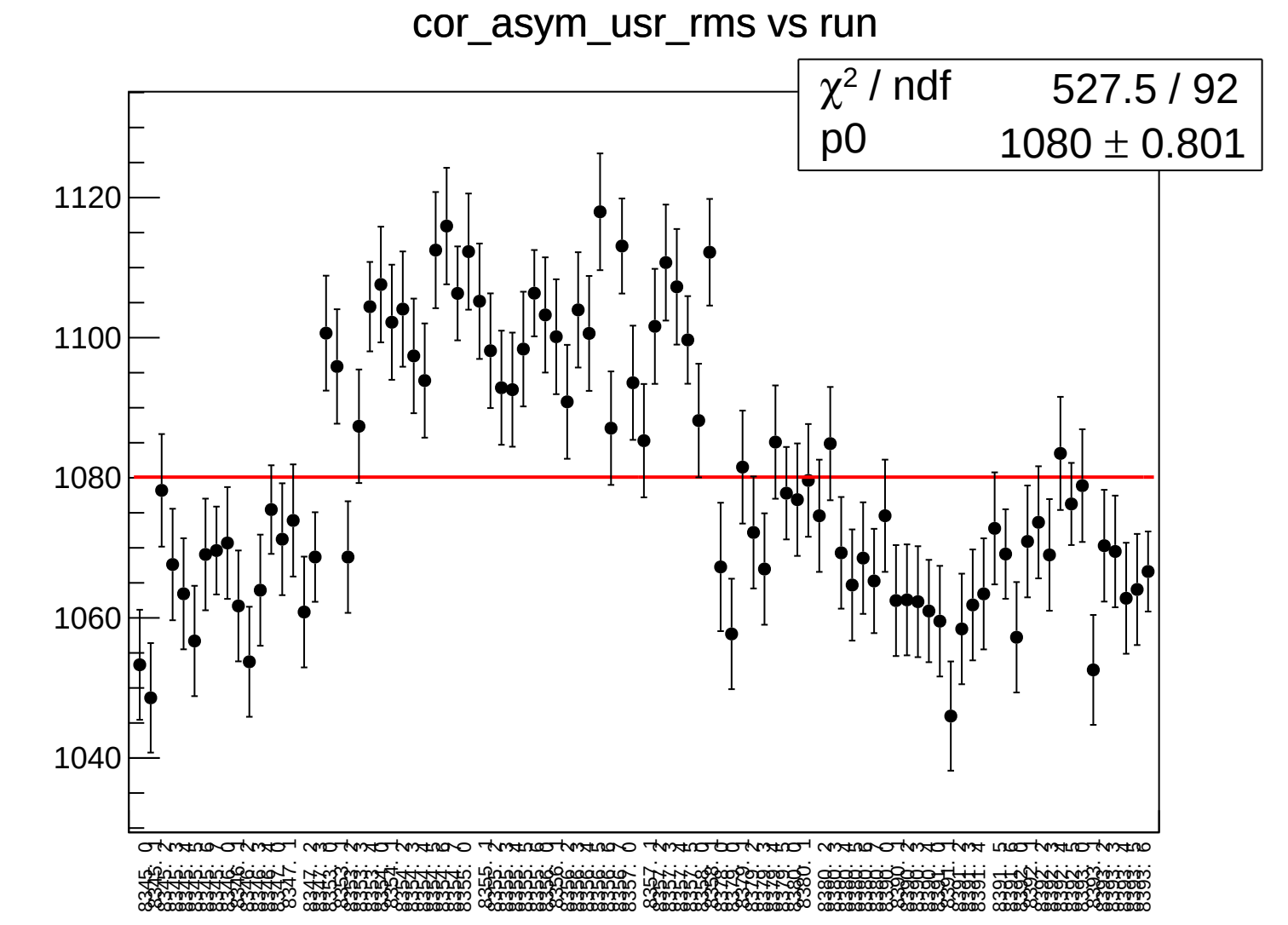

asym_usr_reg_correction_mean vs run
×10^3
χ^2 / ndf 105.7 / 92
p0 7126 ± 2716
100
50
0
−50
−100
pull
Entries 93
Mean −261
Std Dev 0
3
2
1
0
−1
−2

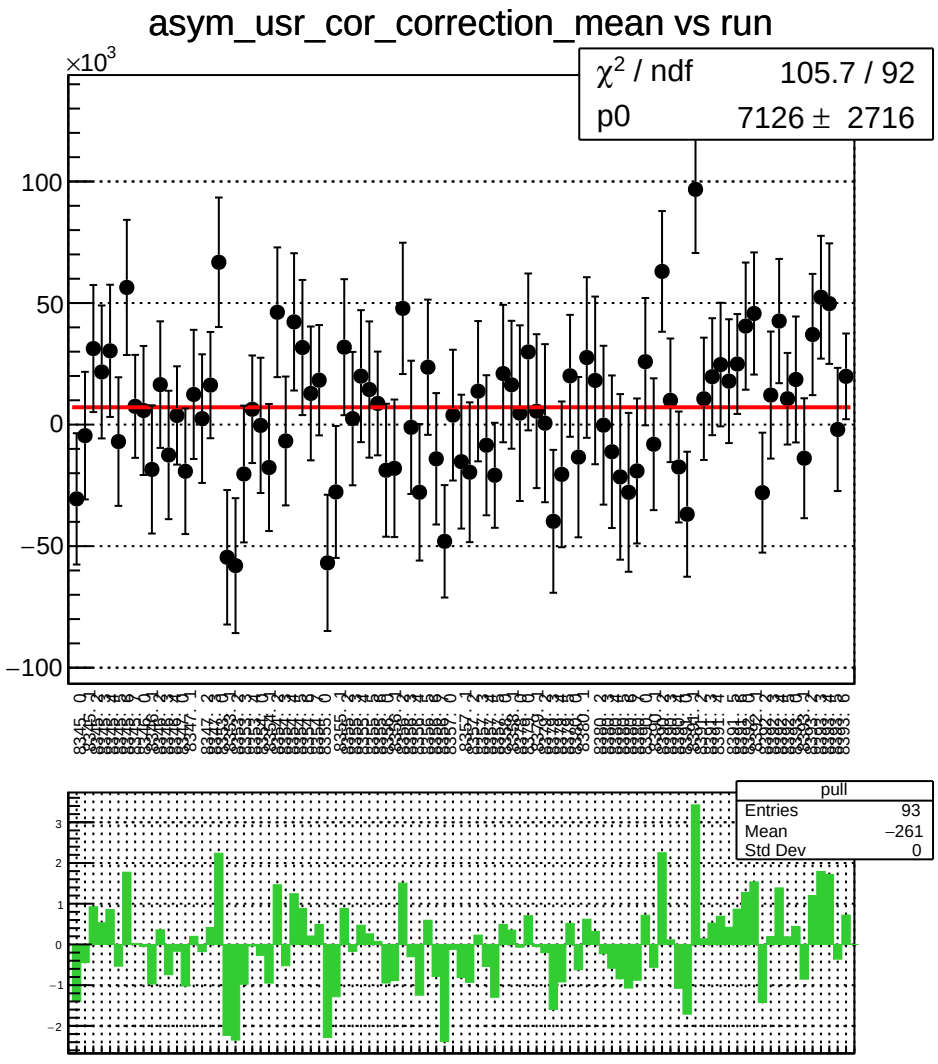

pull1D
Entries 93
Mean −0.01751
Std Dev 1.066
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

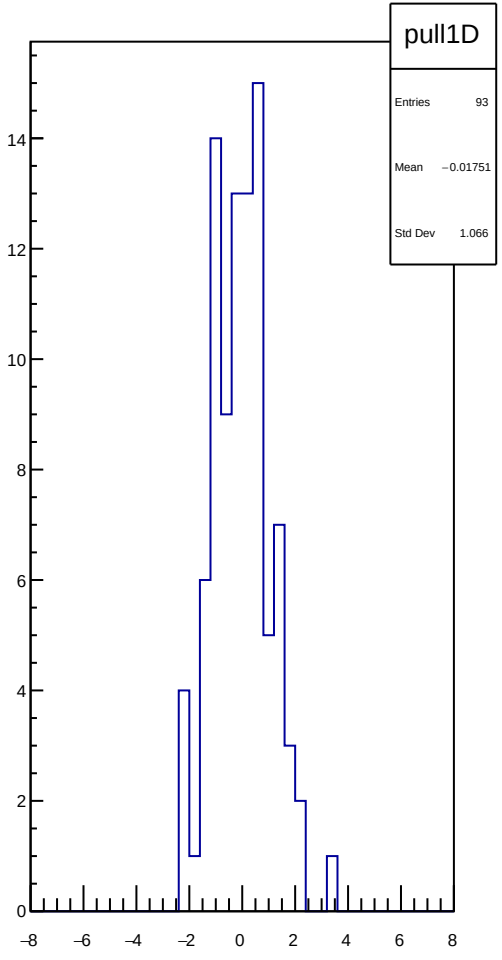

asym_usr_reg_correction_rms vs run
χ² / ndf 1.058e+04 / 92
p0 2583 ± 1.921
3200
3000
2800
2600
2400
2200

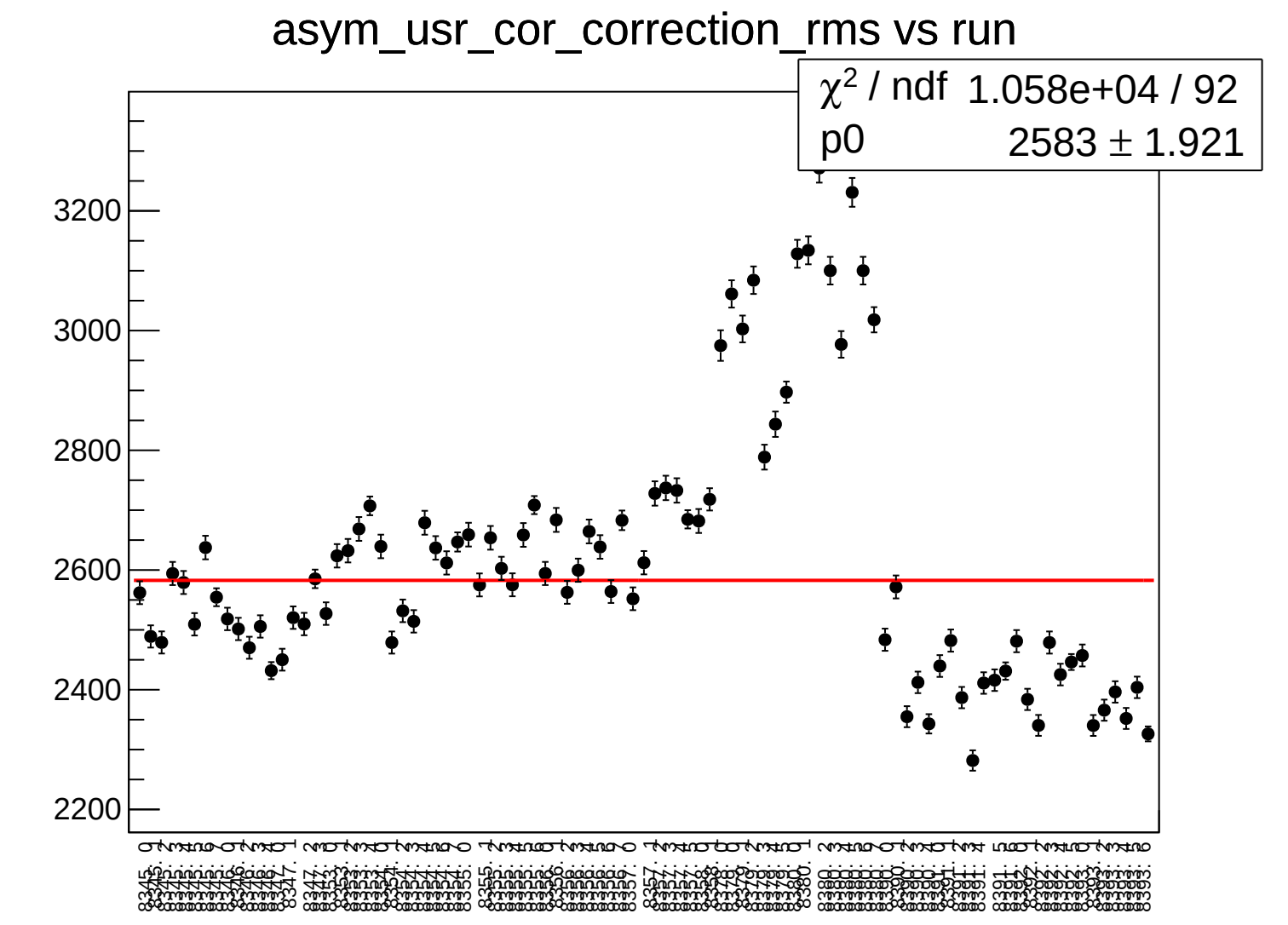

cor_asym_usr_mean vs run
χ² / ndf 83.08 / 92
p0 2971 ± 1133
pull
Entries 93
Mean 481.7
Std Dev 0

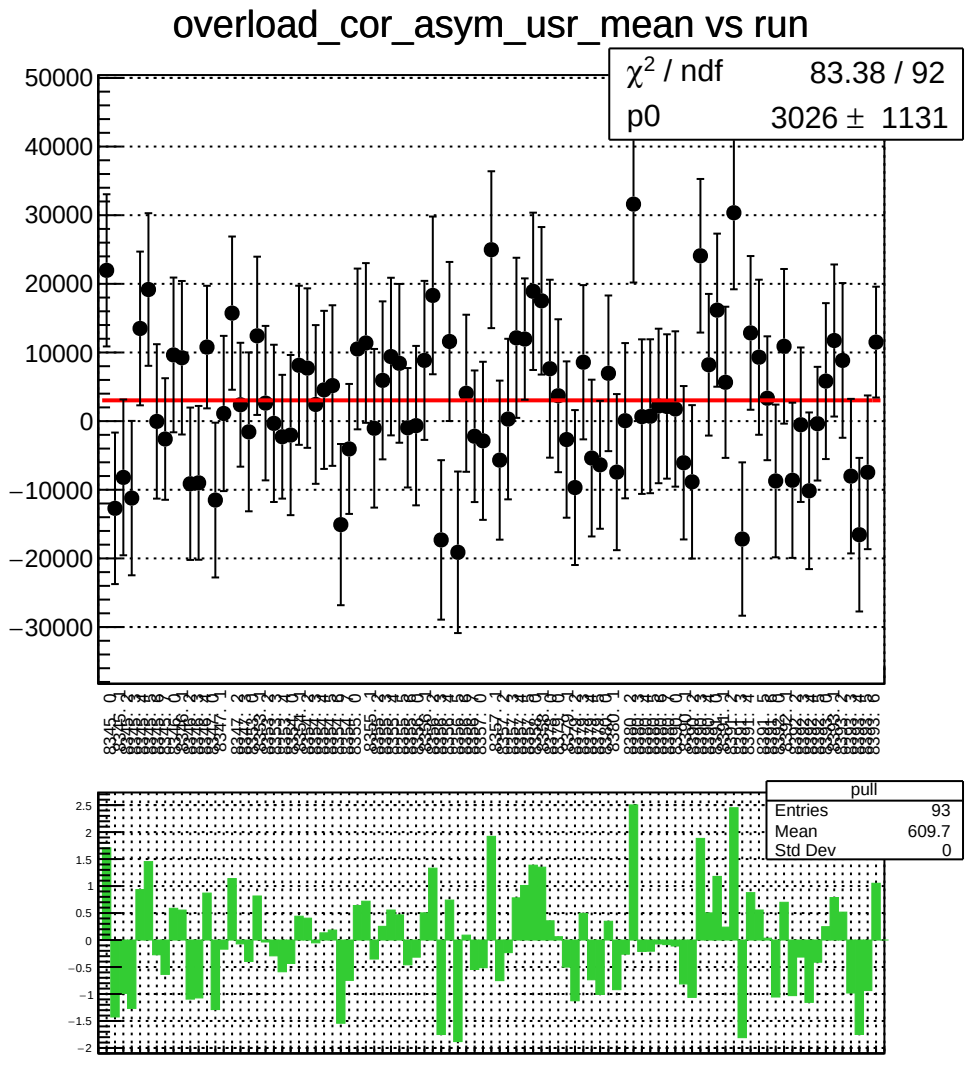

pull1D
Entries 93
Mean 0.0004779
Std Dev 0.9452

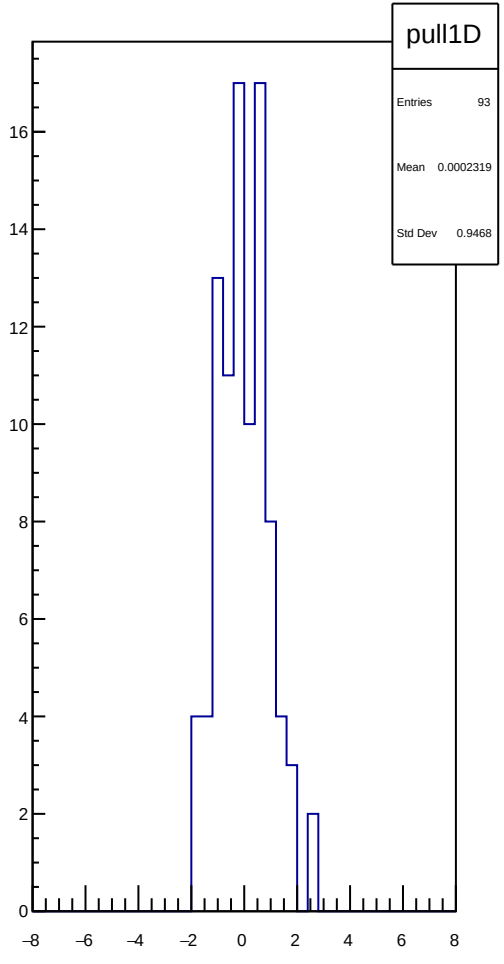

cor_asym_usr_rms vs run
χ^2 / ndf 527.5 / 92
p0 1080 ± 0.801
1120
1100
1080
1060
1040

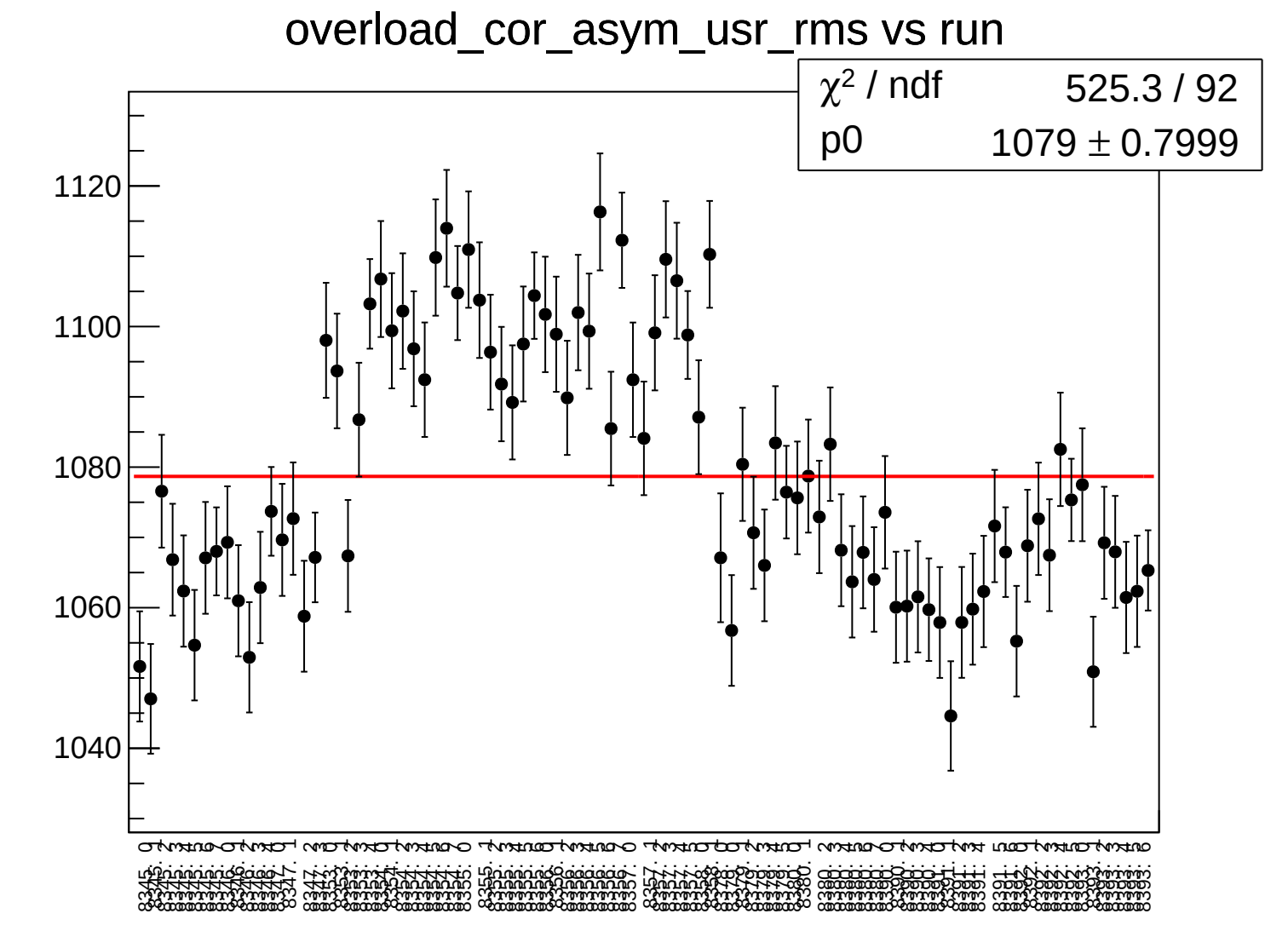

asym_usr_cor_correction_mean vs run
×10^3
χ^2 / ndf 105.7 / 92
p0 7126 ± 2716
100
50
0
−50
−100
pull
Entries 93
Mean −261
Std Dev 0
3
2
1
0
−1
−2

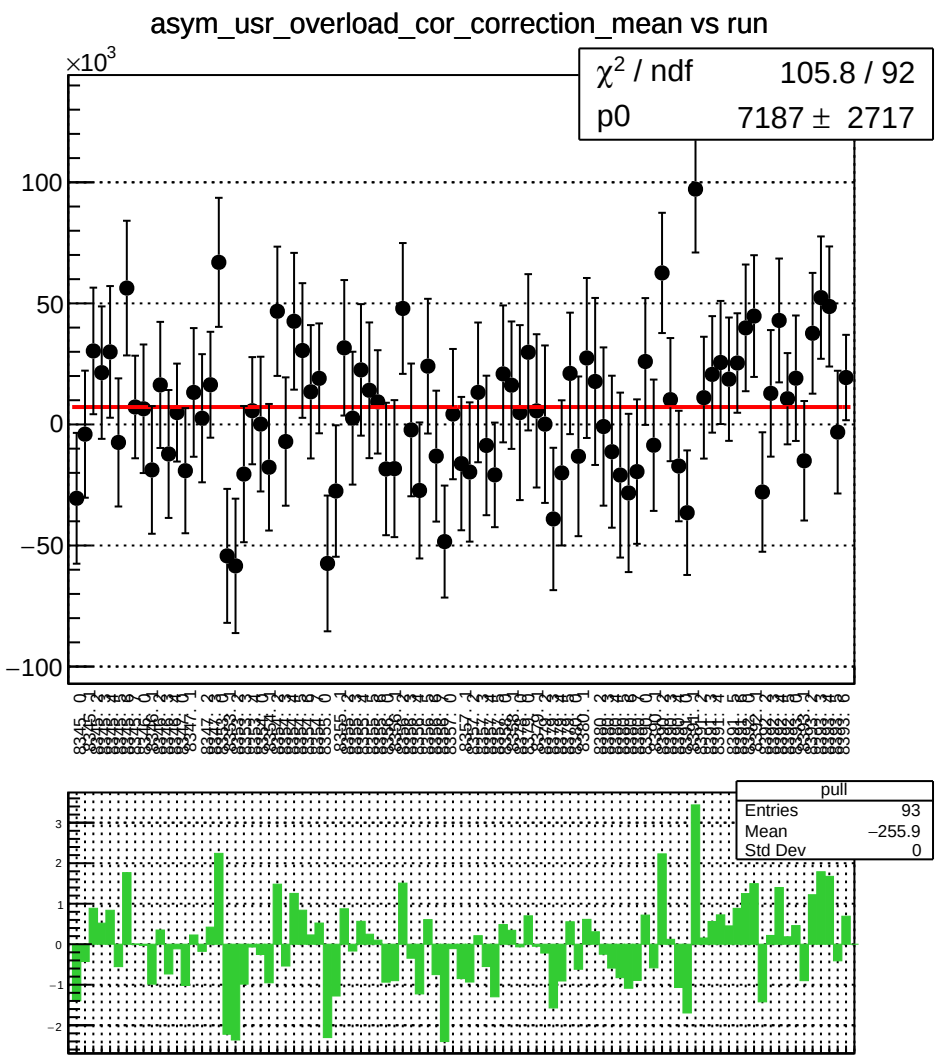

pull1D
Entries 93
Mean −0.01751
Std Dev 1.066
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

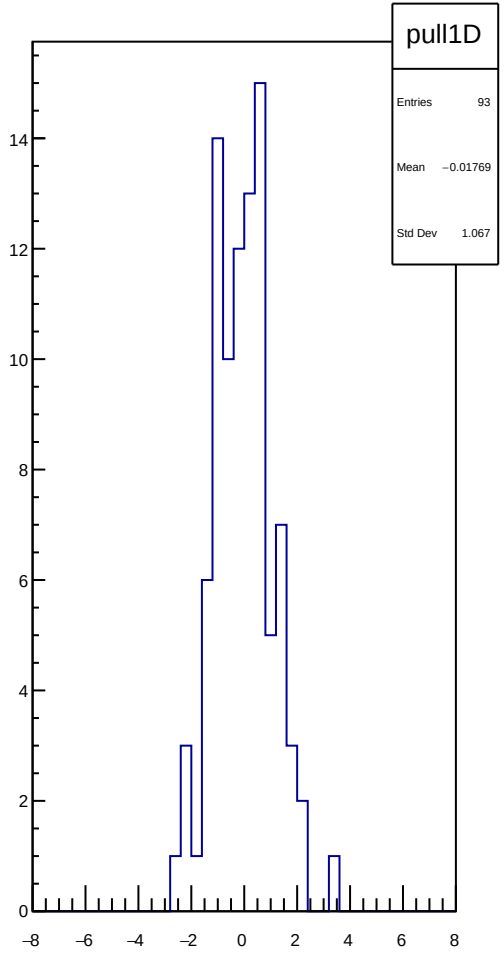

asym_usr_cor_correction_rms vs run
χ² / ndf 1.058e+04 / 92
p0 2583 ± 1.921
3200
3000
2800
2600
2400
2200

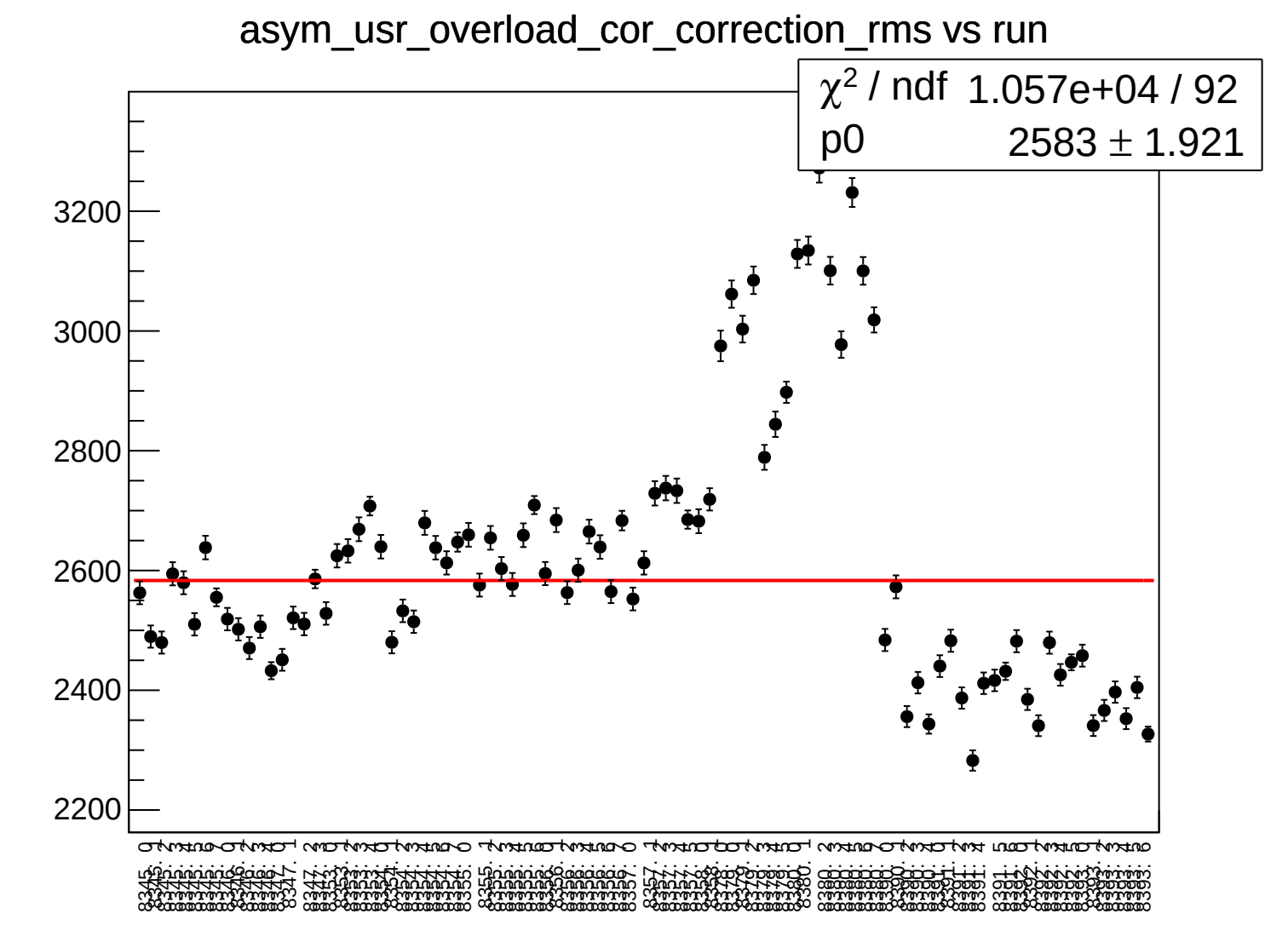

overload_cor_asym_usr_mean vs run
χ² / ndf 83.38 / 92
p0 3026 ± 1131
pull
Entries 93
Mean 609.7
Std Dev 0

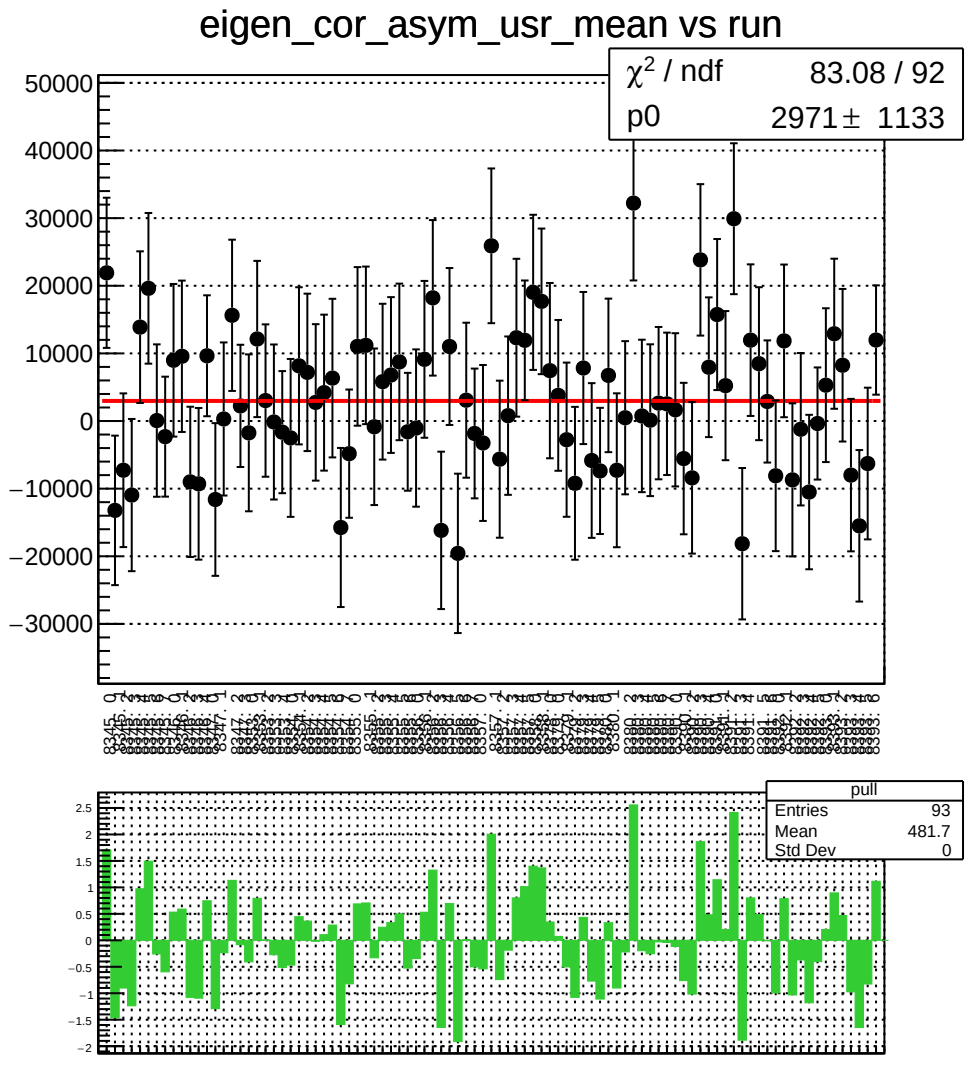

pull1D
Entries 93
Mean 0.0002319
Std Dev 0.9468

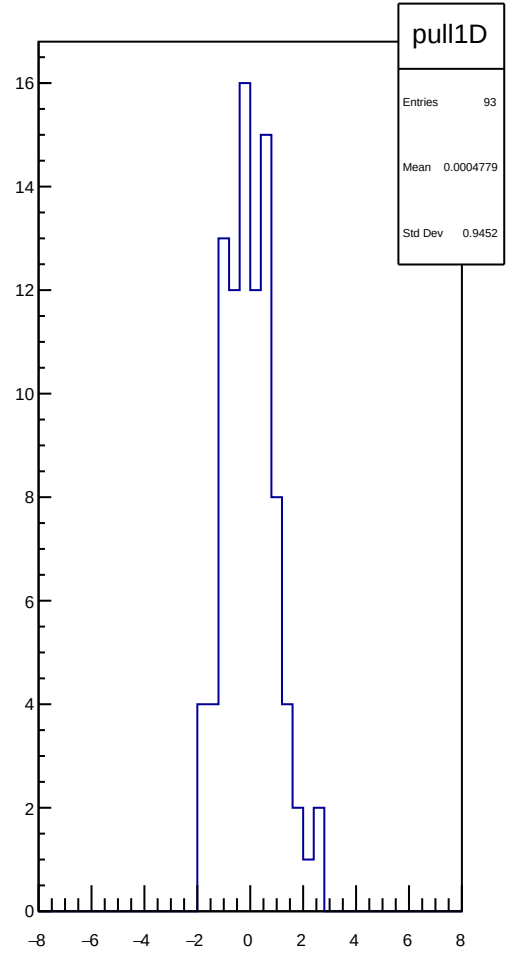

overload_cor_asym_usr_rms vs run
χ² / ndf 525.3 / 92
p0 1079 ± 0.7999
1120
1100
1080
1060
1040

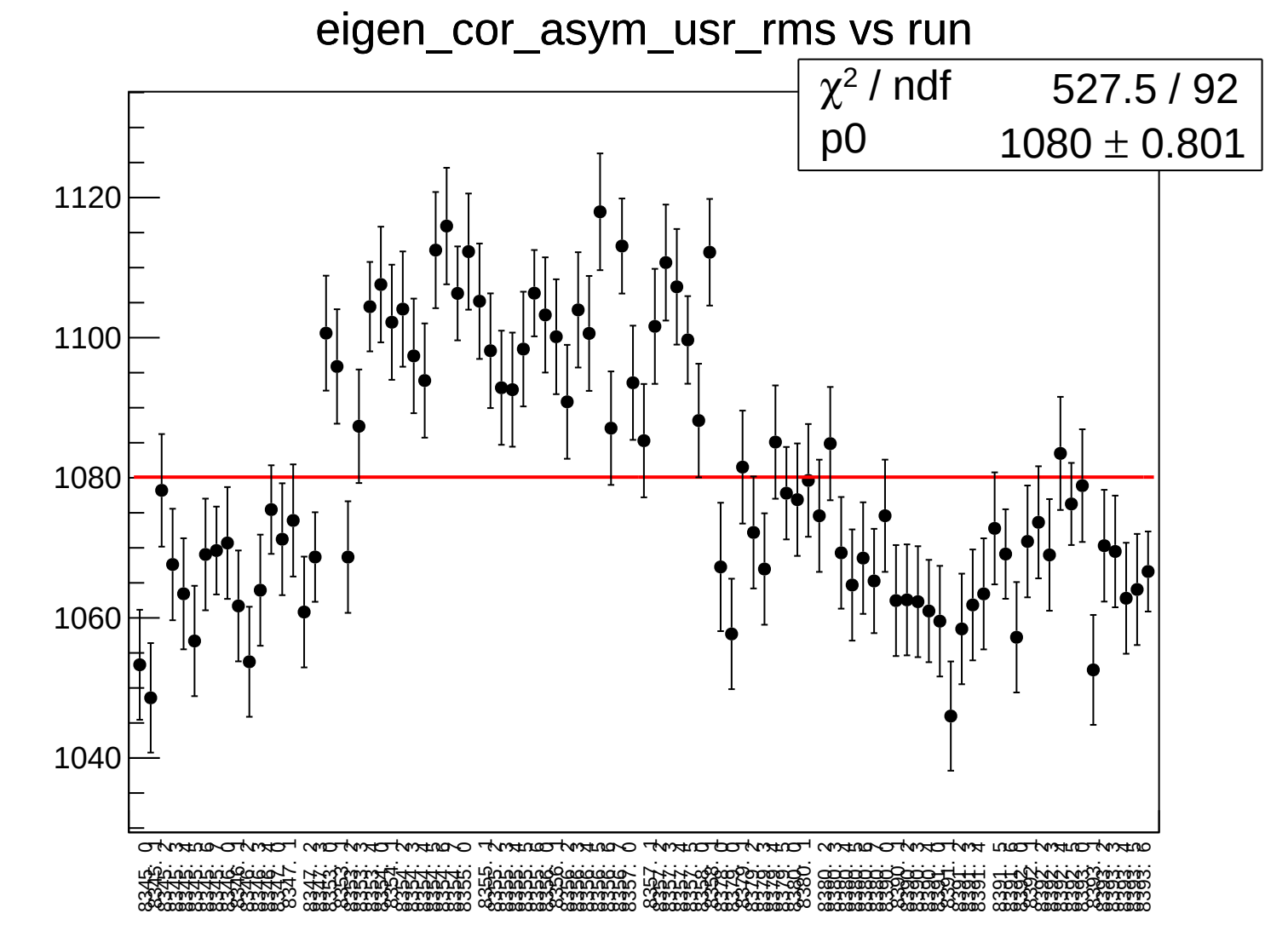

asym_usr_overload_cor_correction_mean vs run
×10^3
χ^2 / ndf 105.8 / 92
p0 7187 ± 2717
100
50
0
−50
−100
pull
Entries 93
Mean −255.9
Std Dev 0
3
2
1
0
−1
−2

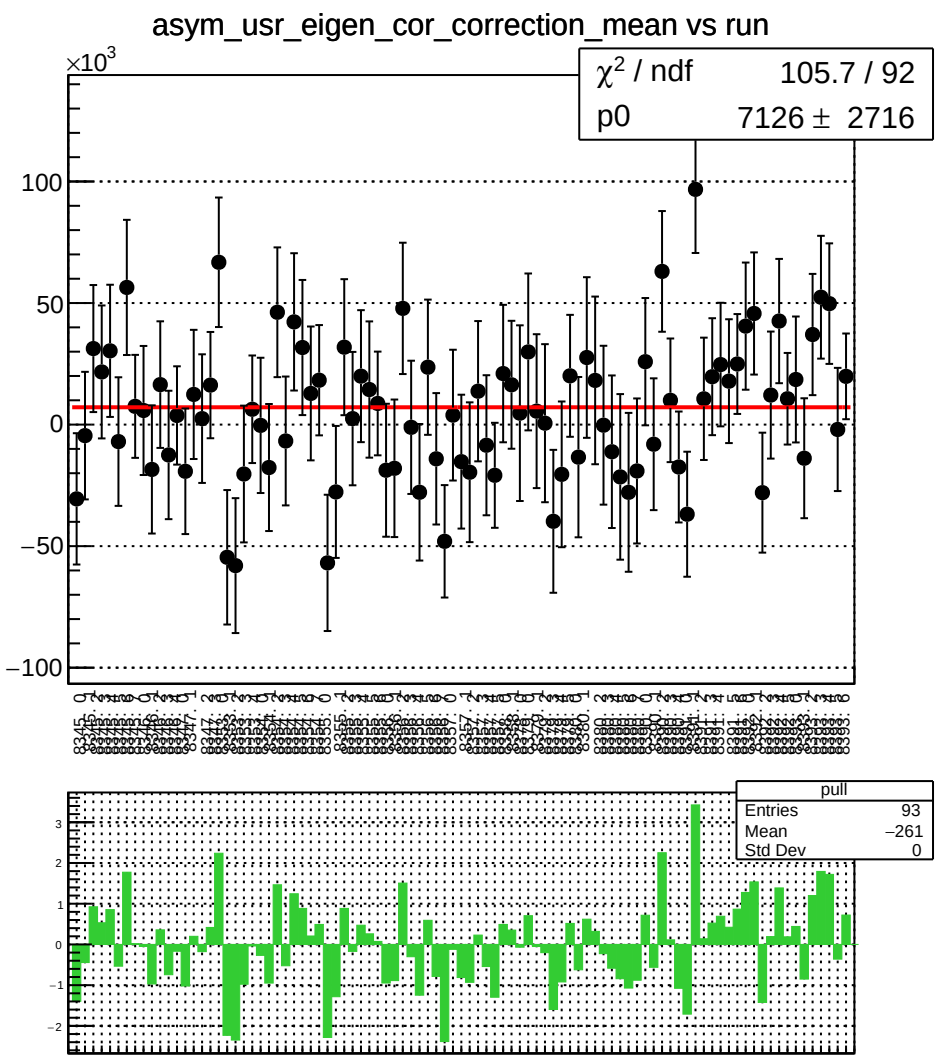

pull1D
Entries 93
Mean −0.01769
Std Dev 1.067
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

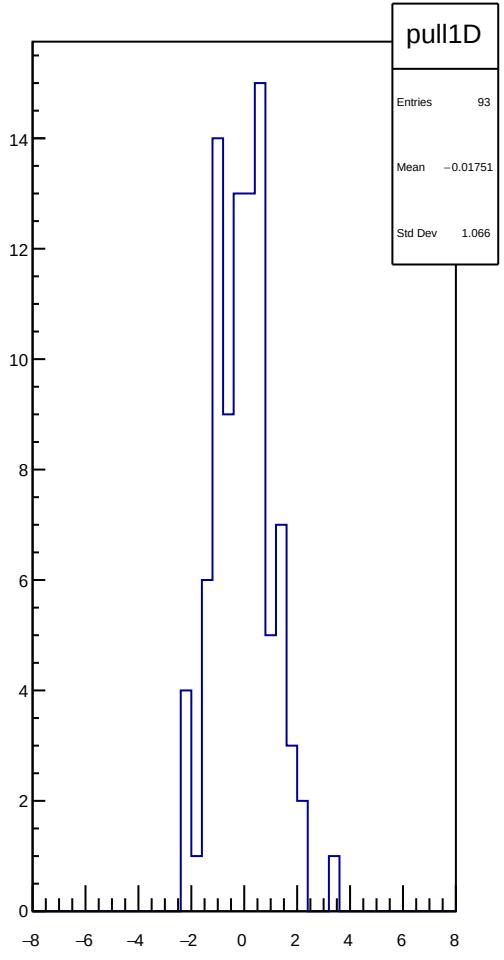

asym_usr_overload_cor_correction_rms vs run
χ² / ndf 1.057e+04 / 92
p0 2583 ± 1.921
3200
3000
2800
2600
2400
2200

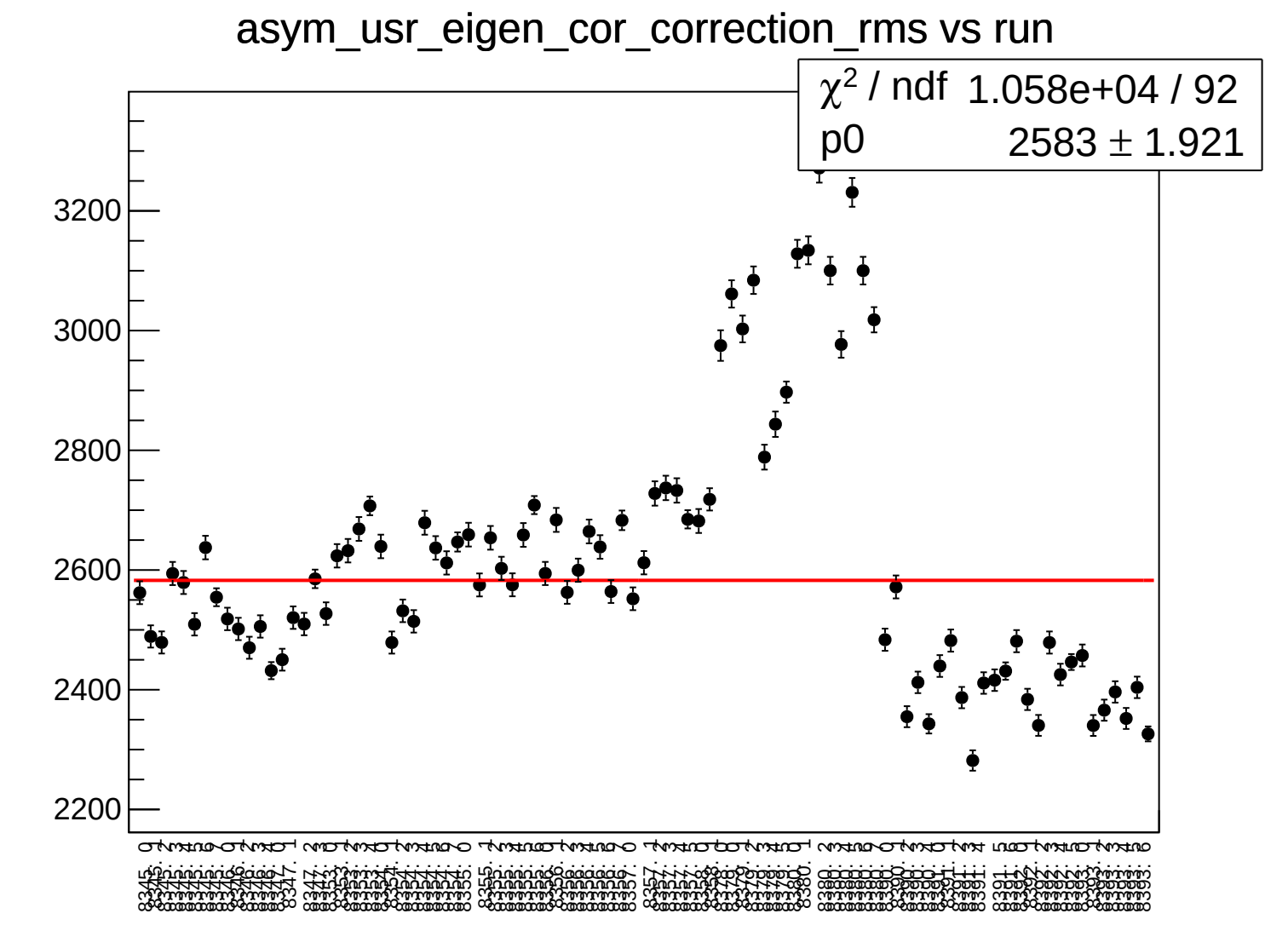

eigen_cor_asym_usr_mean vs run
χ² / ndf 83.08 / 92
p0 2971 ± 1133
pull
Entries 93
Mean 481.7
Std Dev 0

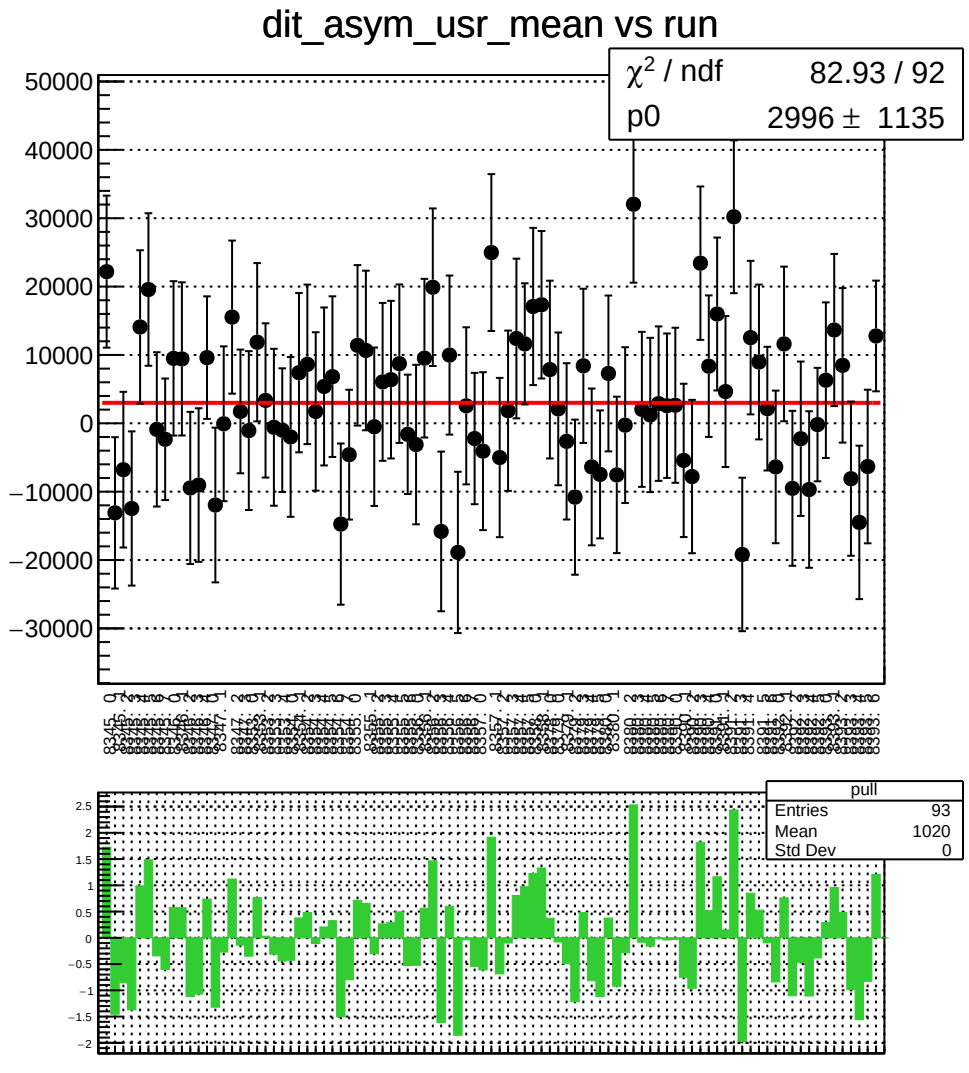

pull1D
Entries 93
Mean 0.0004779
Std Dev 0.9452

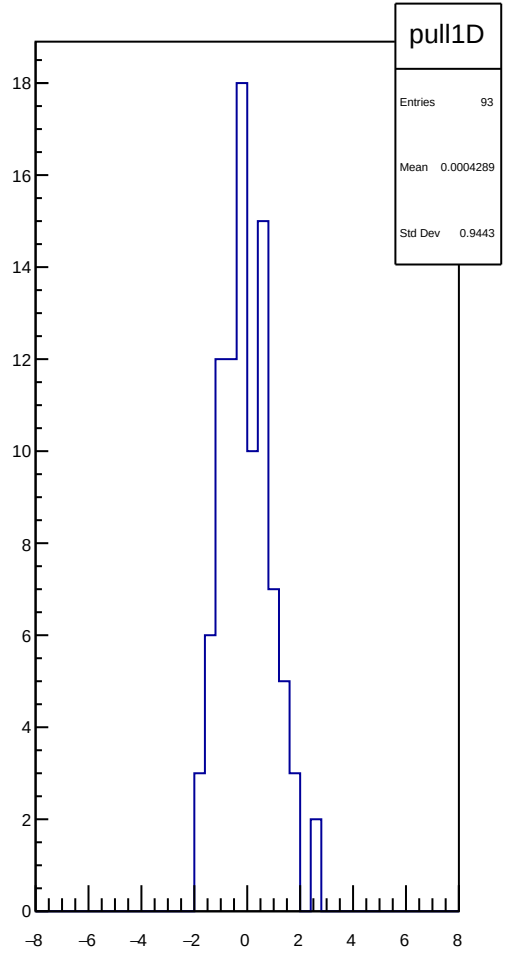

eigen_cor_asym_usr_rms vs run
χ^2 / ndf 527.5 / 92
p0 1080 ± 0.801
1120
1100
1080
1060
1040

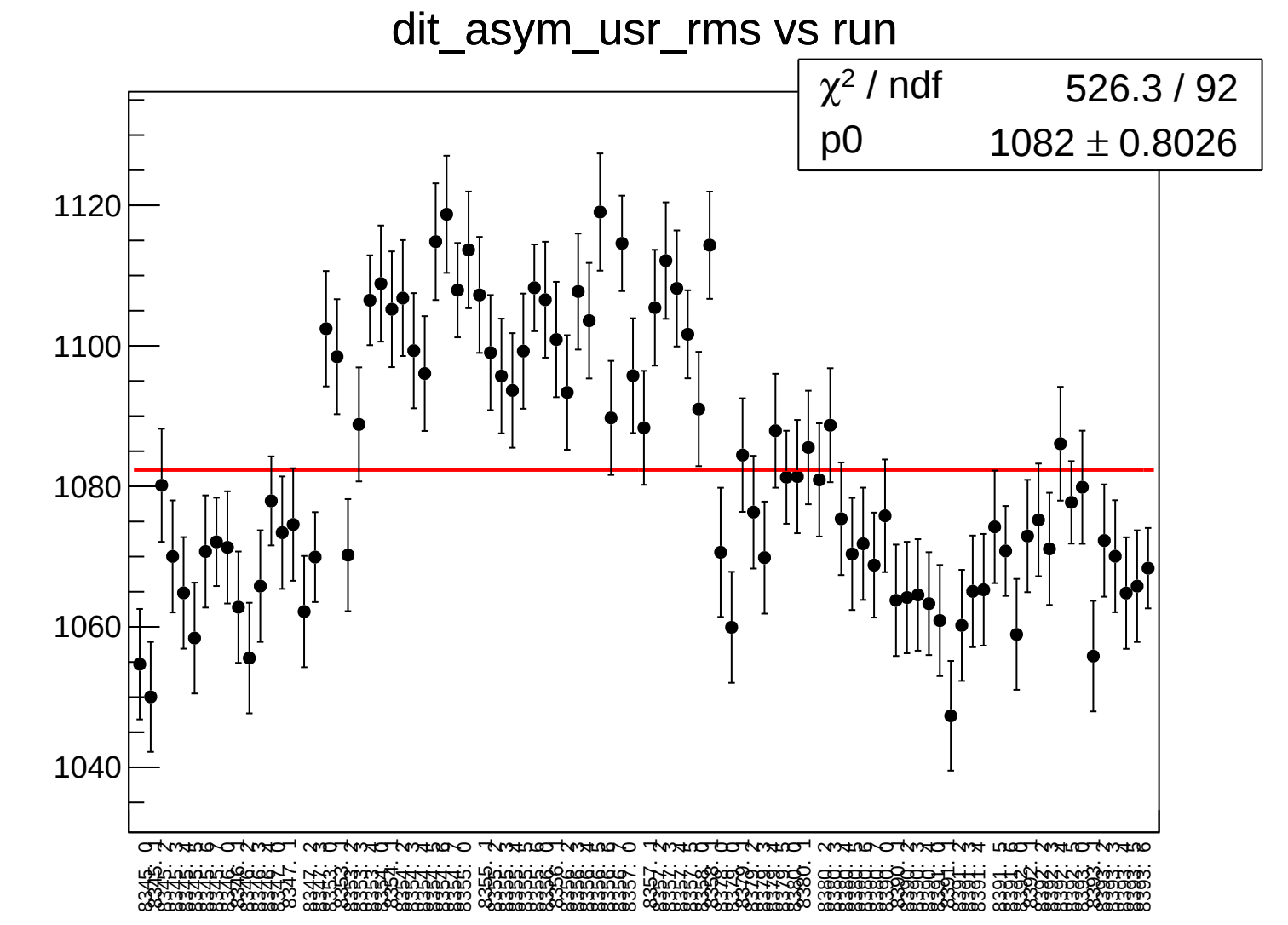

asym_usr_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 105.7 / 92
p0 7126 ± 2716
100
50
0
−50
−100
pull
Entries 93
Mean −261
Std Dev 0
3
2
1
0
−1
−2

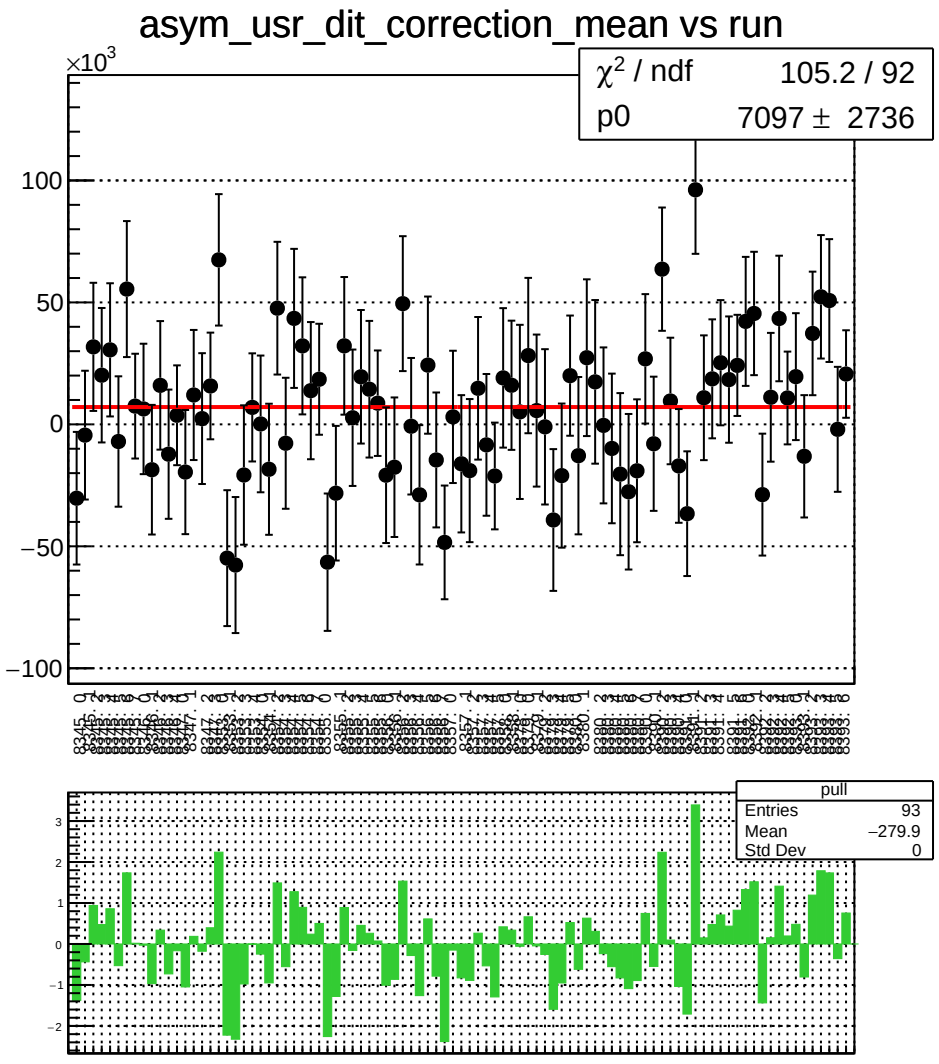

pull1D
Entries 93
Mean −0.01751
Std Dev 1.066
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

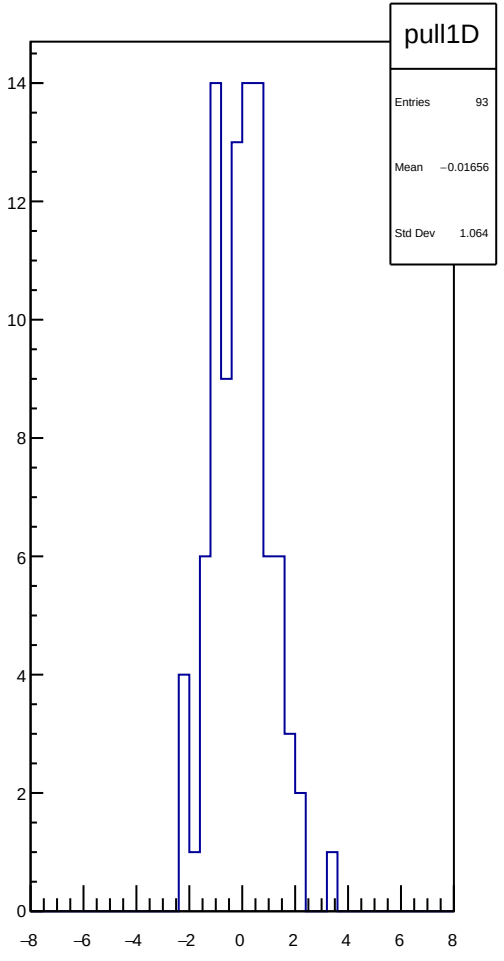

asym_usr_eigen_cor_correction_rms vs run
χ^2 / ndf 1.058e+04 / 92
p0 2583 ± 1.921
3200
3000
2800
2600
2400
2200

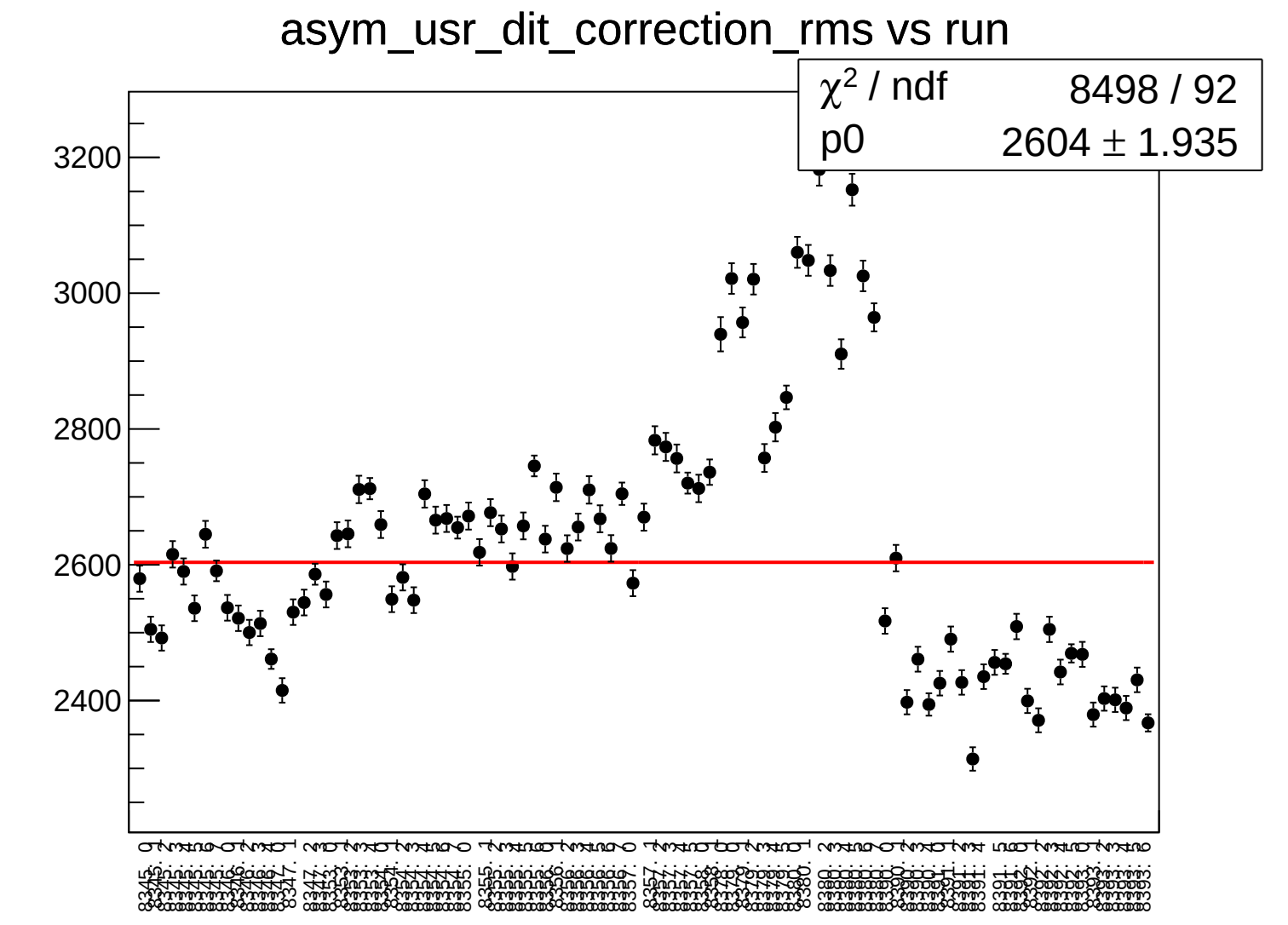

dit_asym_usr_mean vs run
χ² / ndf 82.93 / 92
p0 2996 ± 1135
pull
Entries 93
Mean 1020
Std Dev 0

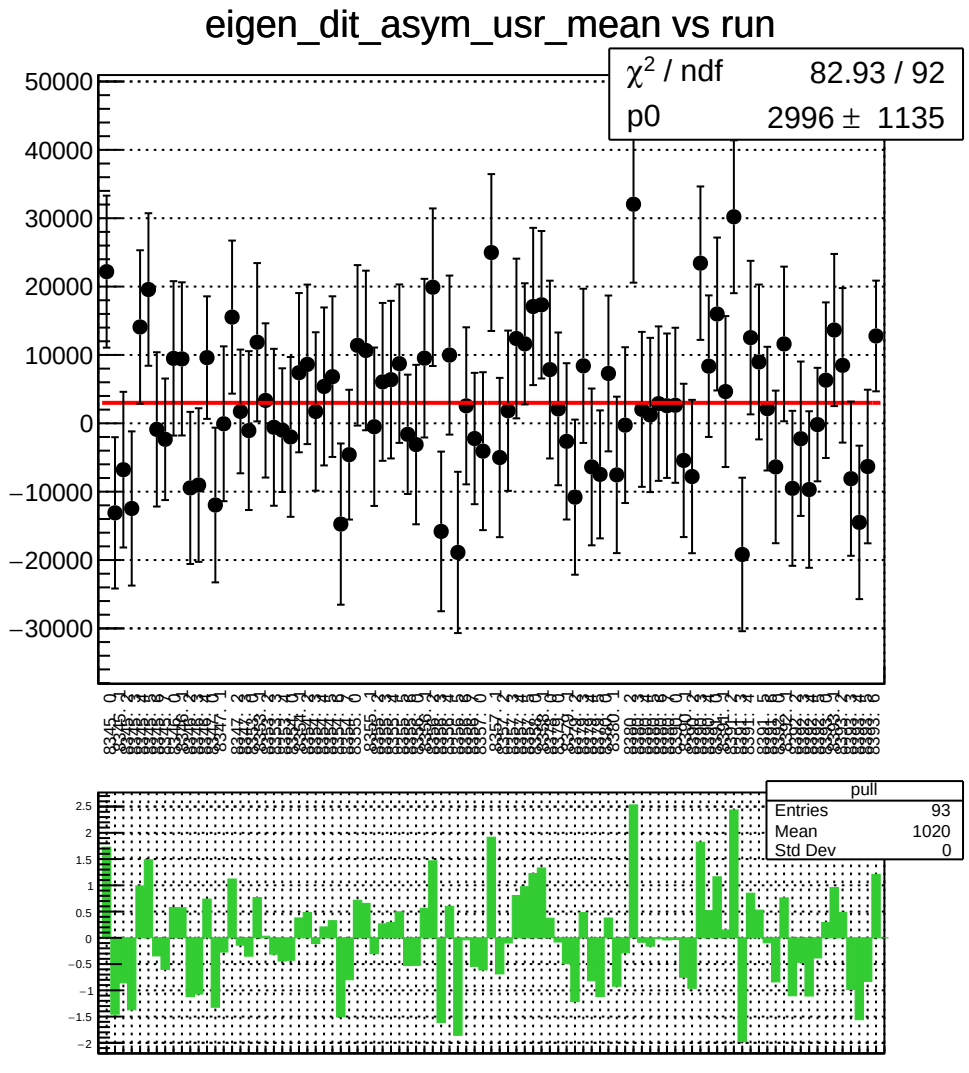

pull1D
Entries 93
Mean 0.0004289
Std Dev 0.9443

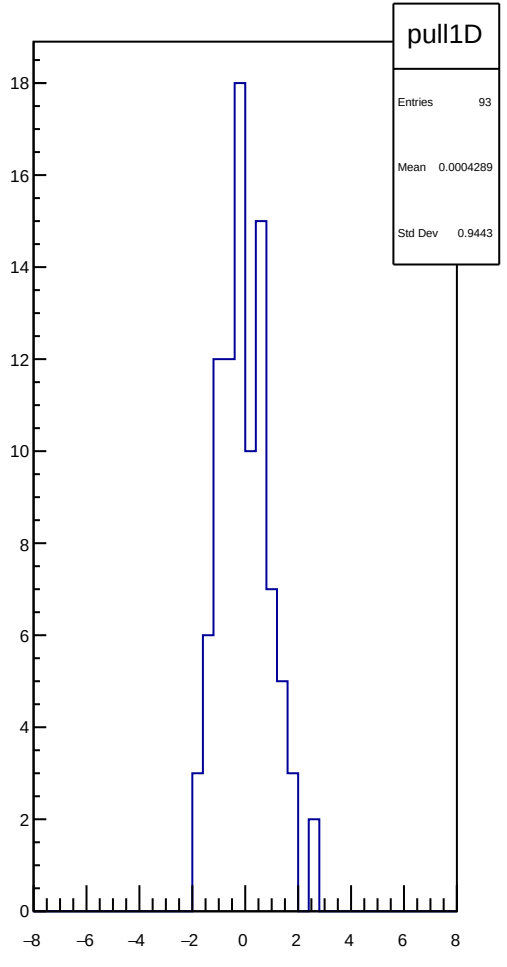

dit_asym_usr_rms vs run
χ² / ndf 526.3 / 92
p0 1082 ± 0.8026
1120
1100
1080
1060
1040

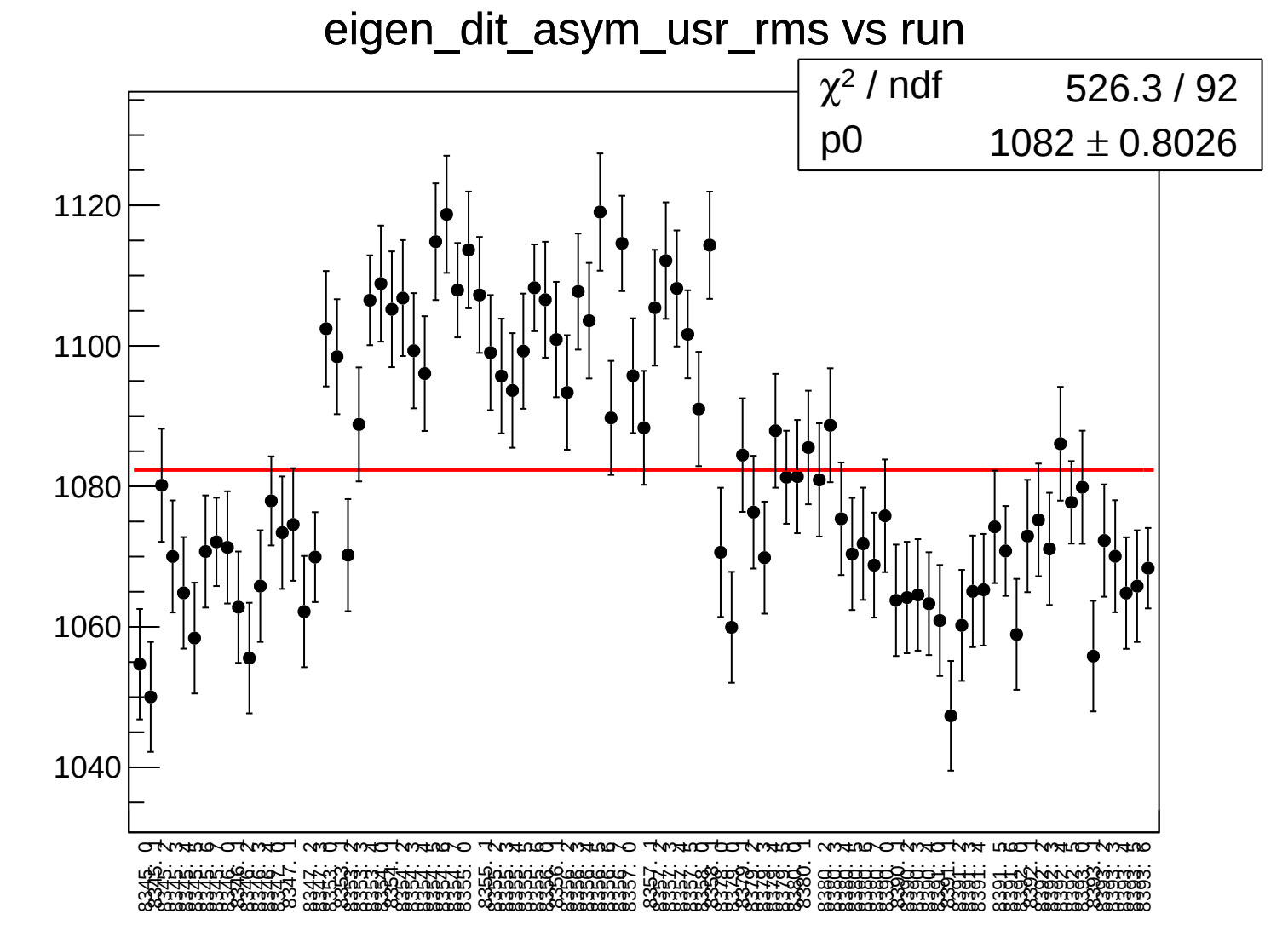

asym_usr_dit_correction_mean vs run
×10^3
χ^2 / ndf 105.2 / 92
p0 7097 ± 2736
100
50
0
−50
−100
pull
Entries 93
Mean −279.9
Std Dev 0
3
2
1
0
−1
−2

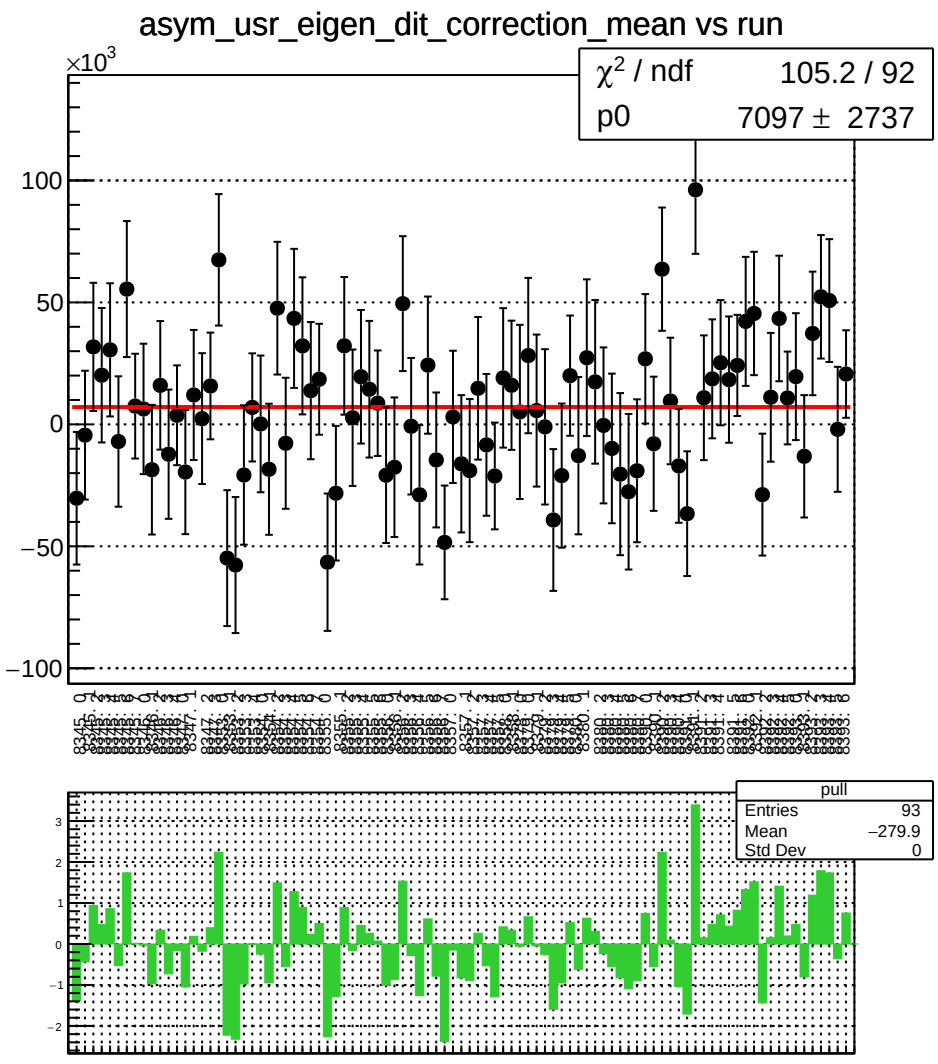

pull1D
Entries 93
Mean −0.01656
Std Dev 1.064
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

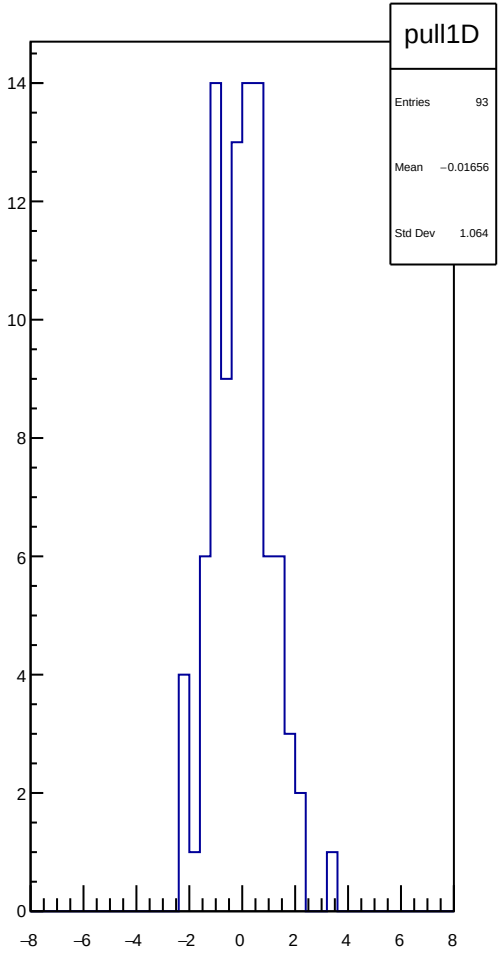

asym_usr_dit_correction_rms vs run
χ² / ndf 8498 / 92
p0 2604 ± 1.935
3200
3000
2800
2600
2400

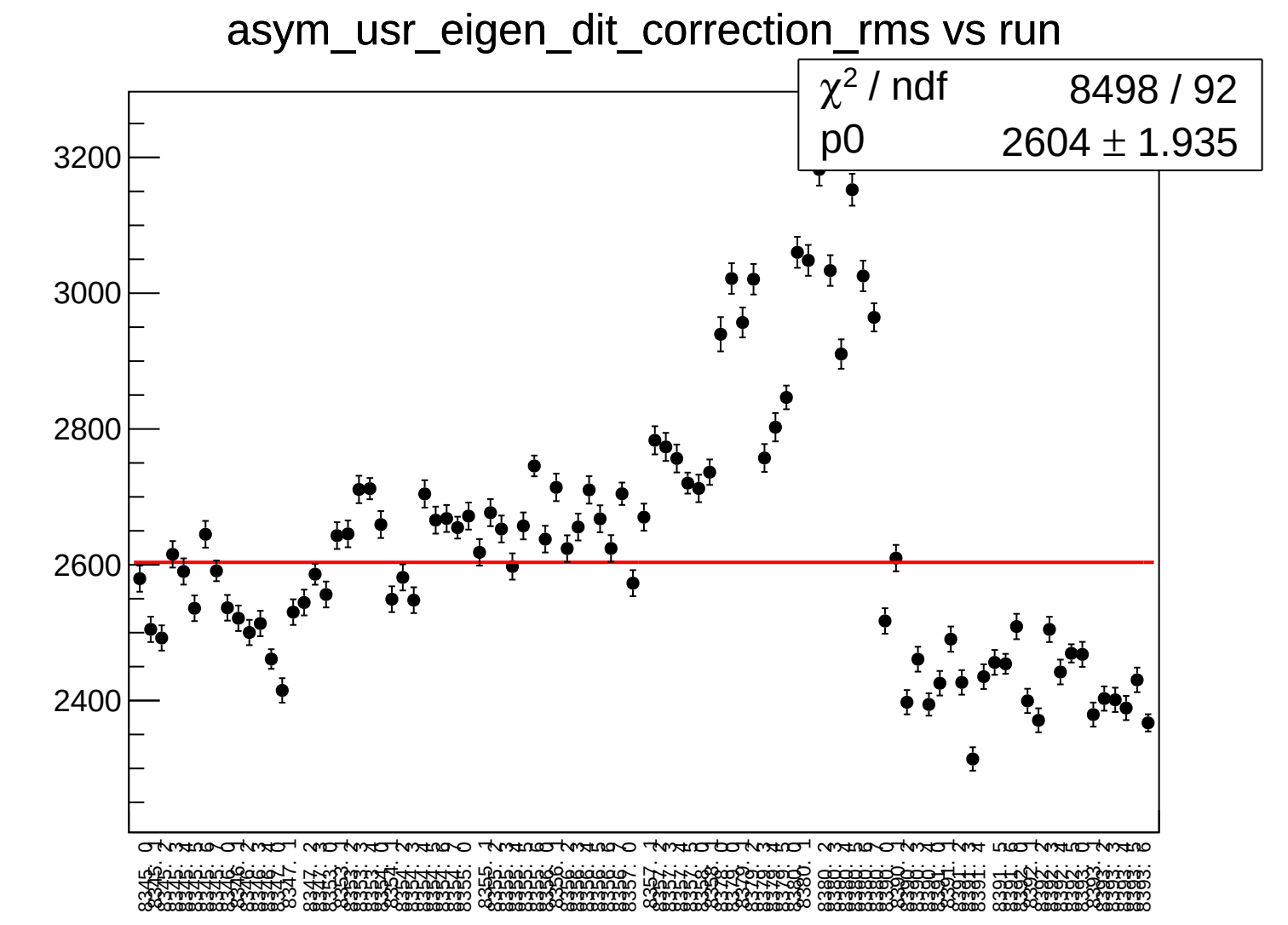

eigen_dit_asym_usr_mean vs run
χ² / ndf 82.93 / 92
p0 2996 ± 1135
pull
Entries 93
Mean 1020
Std Dev 0

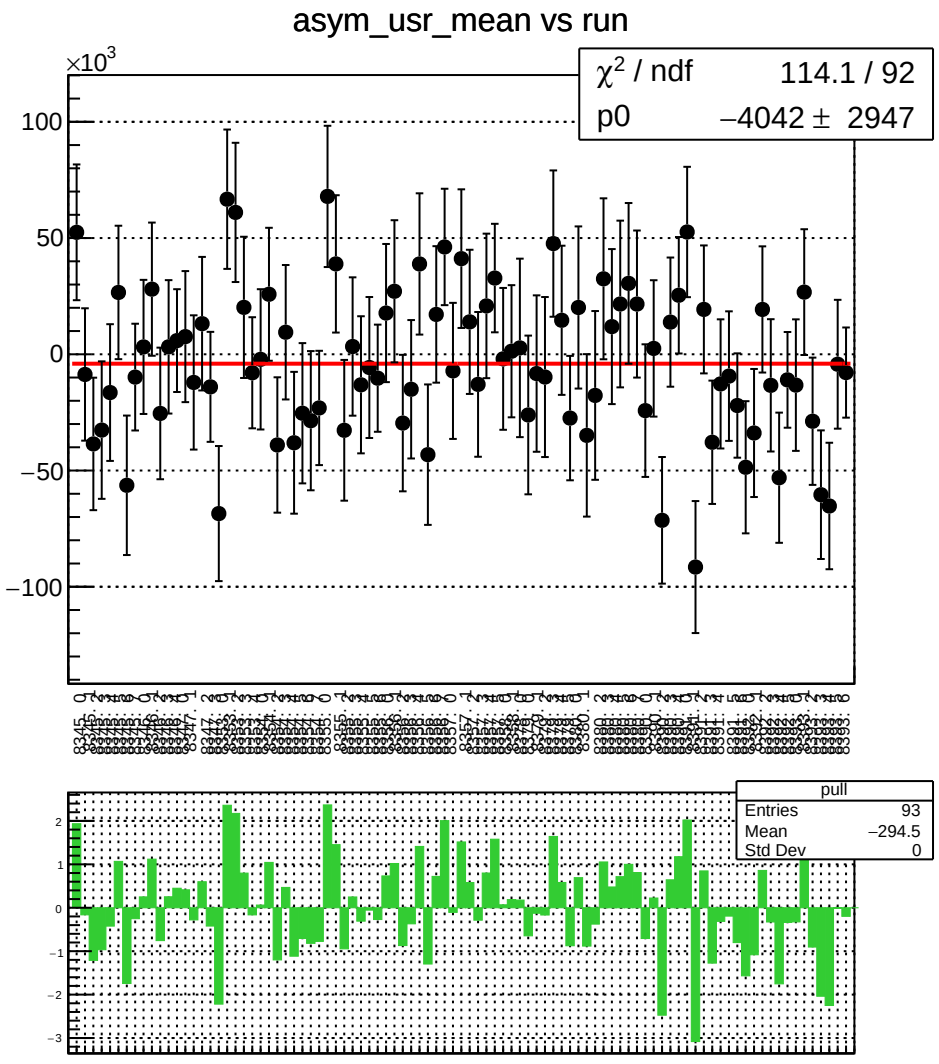

pull1D
Entries 93
Mean 0.0004289
Std Dev 0.9443

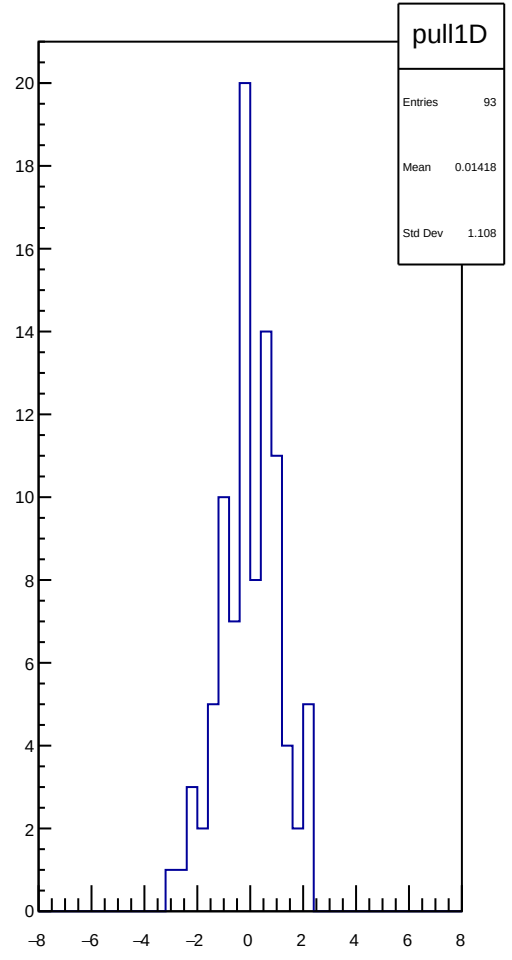

eigen_dit_asym_usr_rms vs run
χ^2 / ndf 526.3 / 92
p0 1082 ± 0.8026
1120
1100
1080
1060
1040

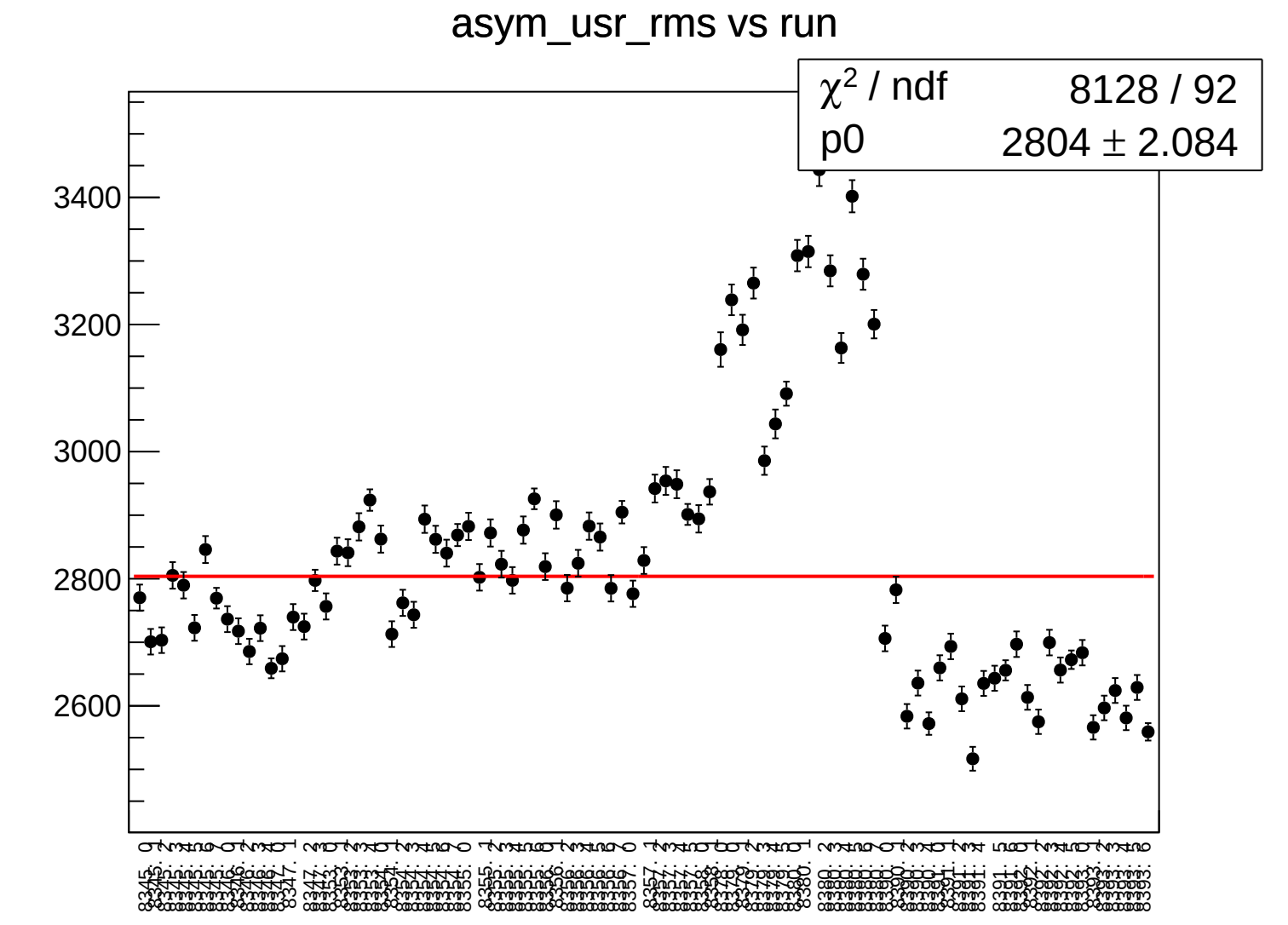

asym_usr_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 105.2 / 92
p0 7097 ± 2737
100
50
0
−50
−100
pull
Entries 93
Mean −279.9
Std Dev 0
3
2
1
0
−1
−2

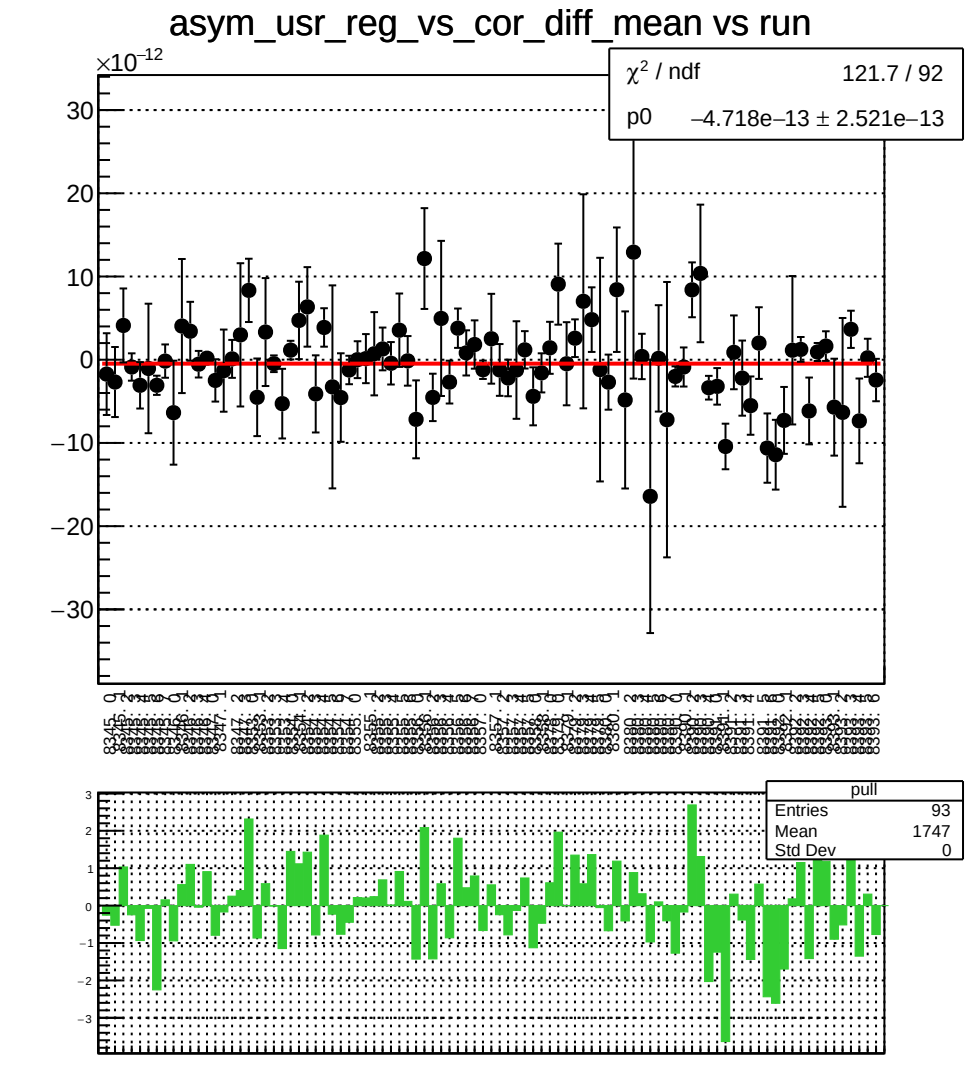

pull1D
Entries 93
Mean −0.01656
Std Dev 1.064
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

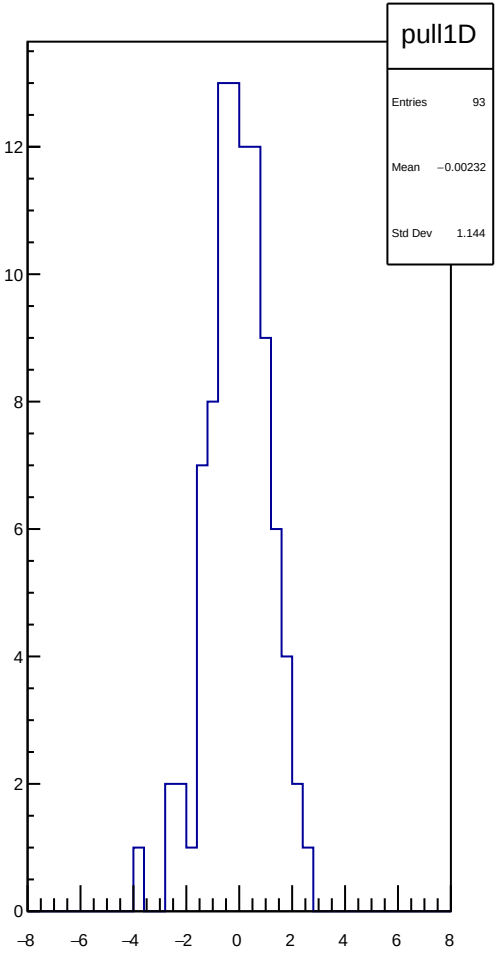

asym_usr_eigen_dit_correction_rms vs run
χ² / ndf 8498 / 92
p0 2604 ± 1.935
3200
3000
2800
2600
2400

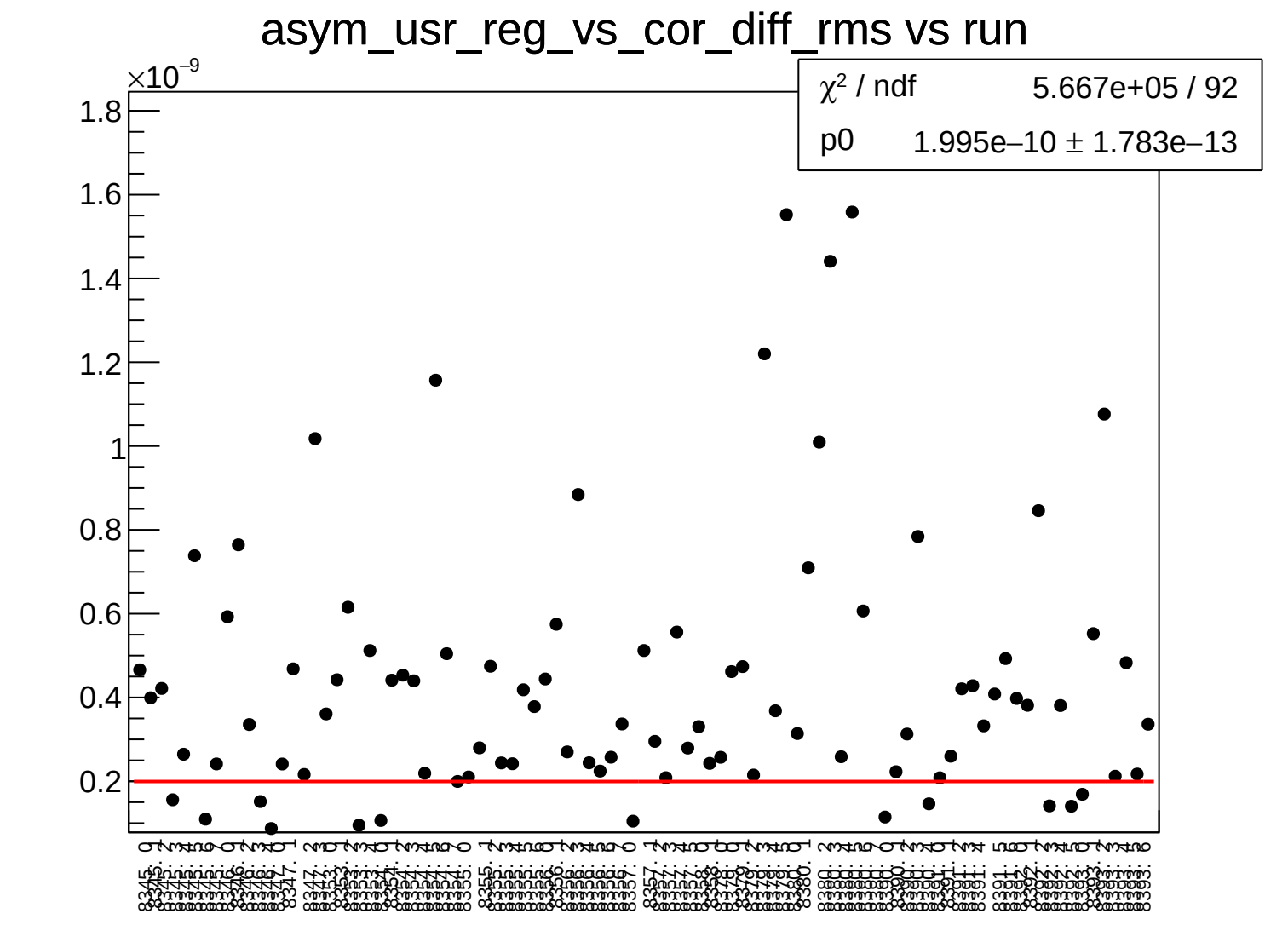

asym_usr_mean vs run
×10^3
χ² / ndf 114.1 / 92
p0 −4042 ± 2947
100
50
0
−50
−100
pull
Entries 93
Mean −294.5
Std Dev 0
2
1
0
−1
−2
−3

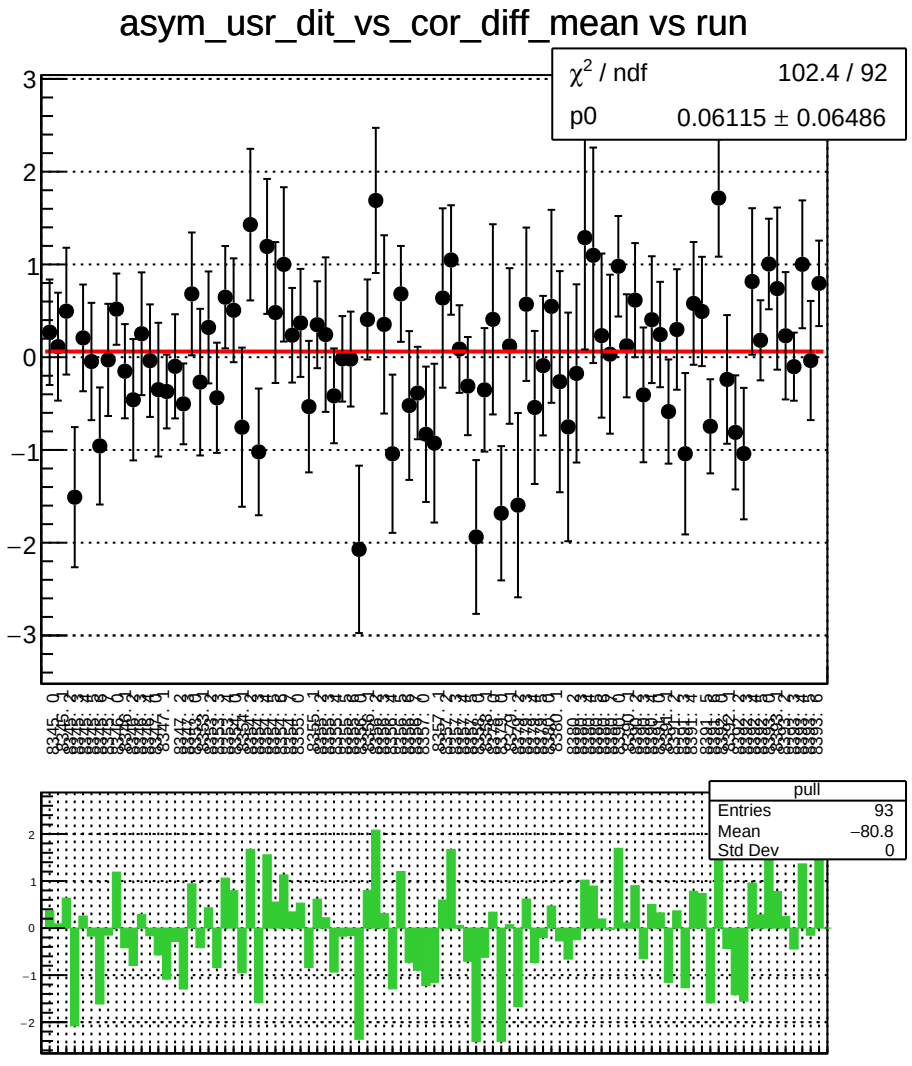

pull1D
Entries 93
Mean 0.01418
Std Dev 1.108
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

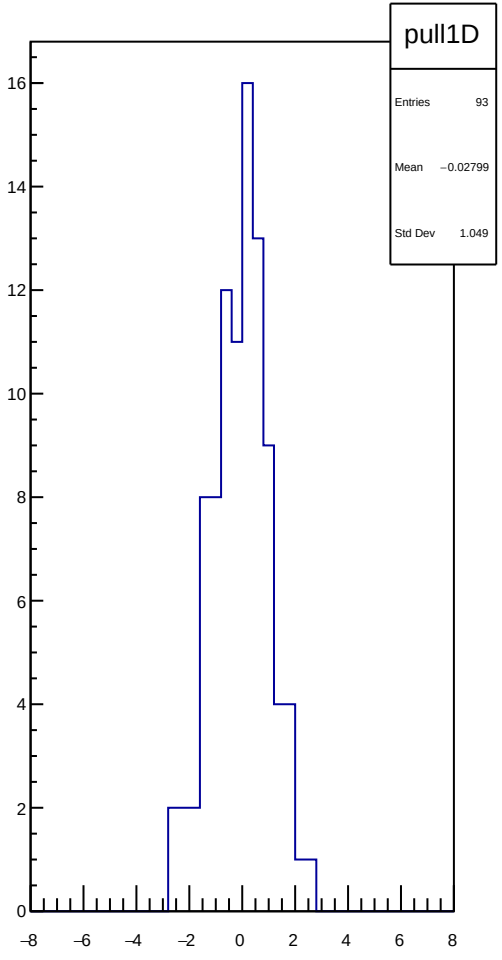

asym_usr_rms vs run
χ² / ndf 8128 / 92
p0 2804 ± 2.084
3400
3200
3000
2800
2600

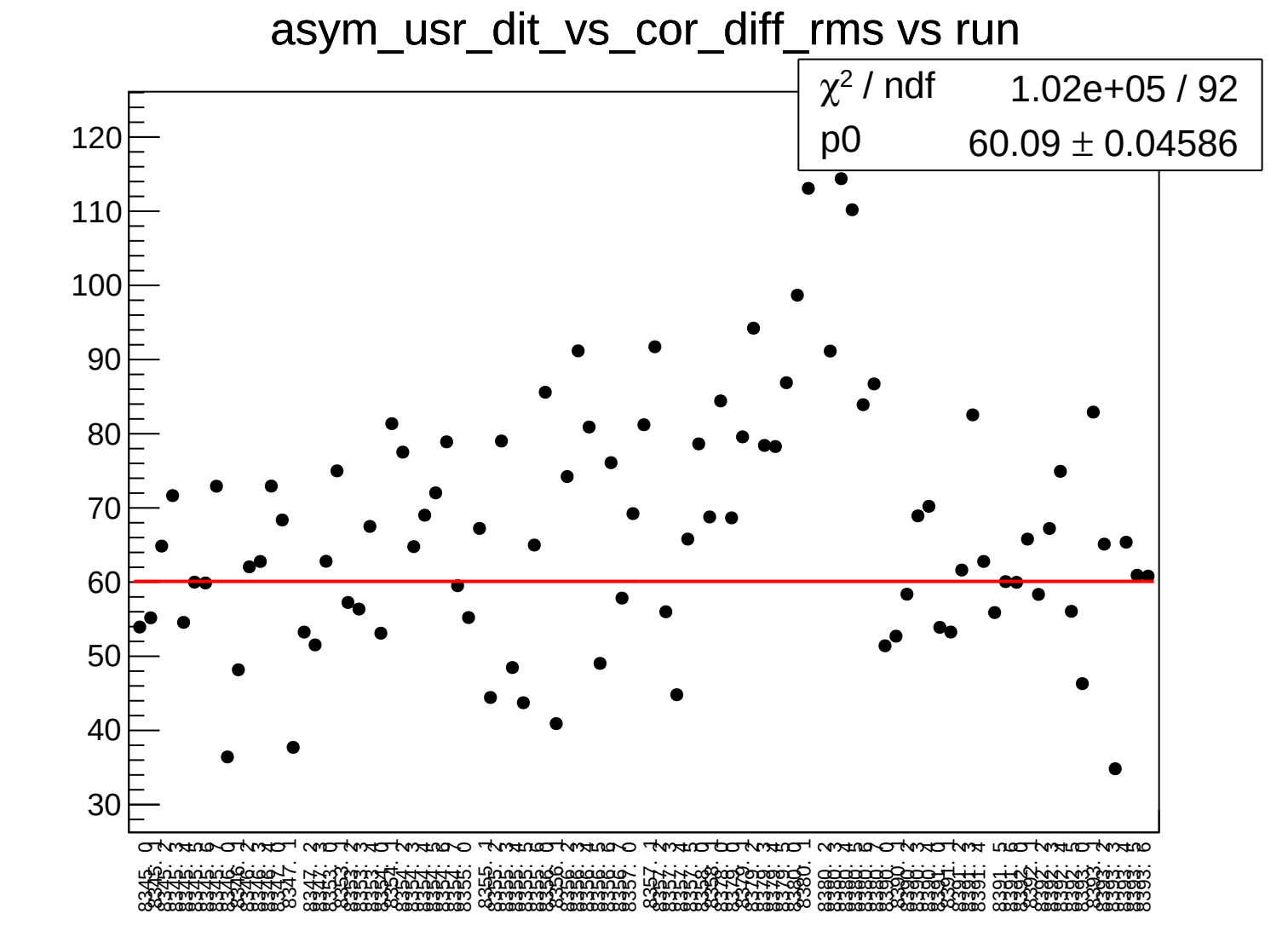

asym_usr_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 121.7 / 92
p0 −4.718e−13 ± 2.521e−13
pull
Entries 93
Mean 1747
Std Dev 0

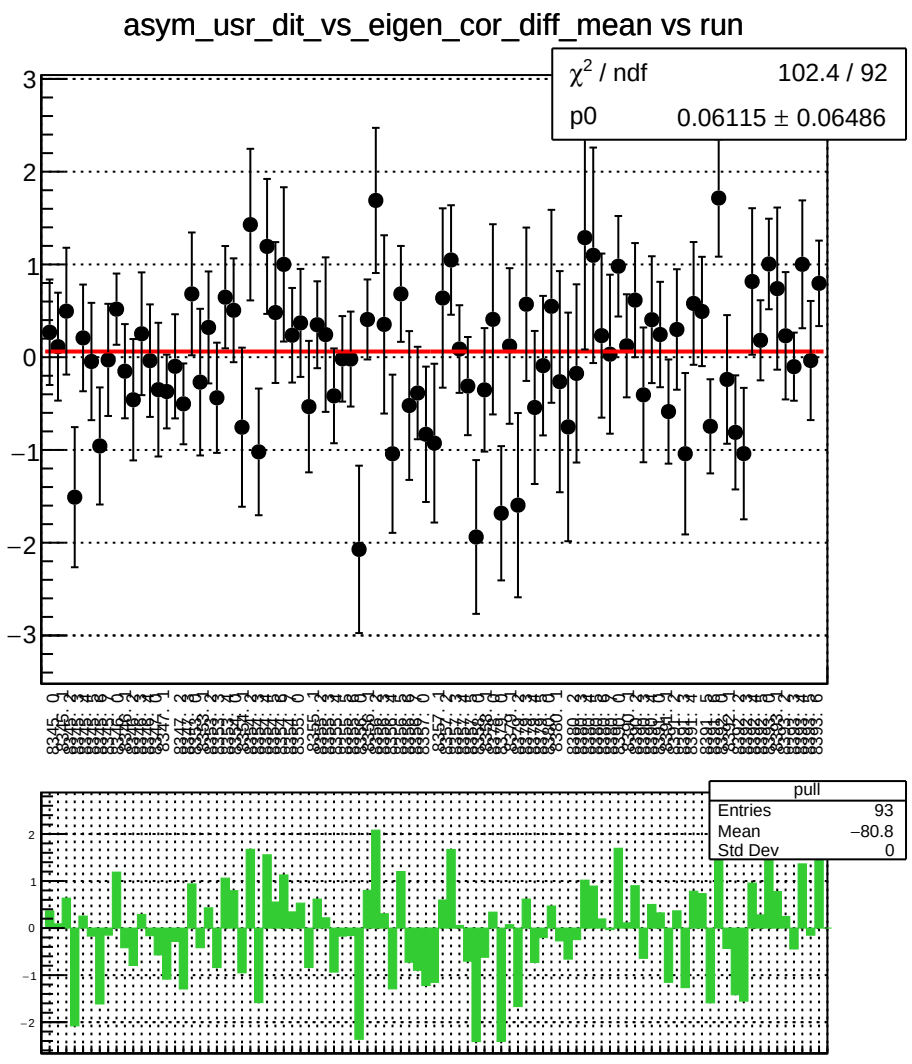

pull1D
Entries 93
Mean −0.00232
Std Dev 1.144

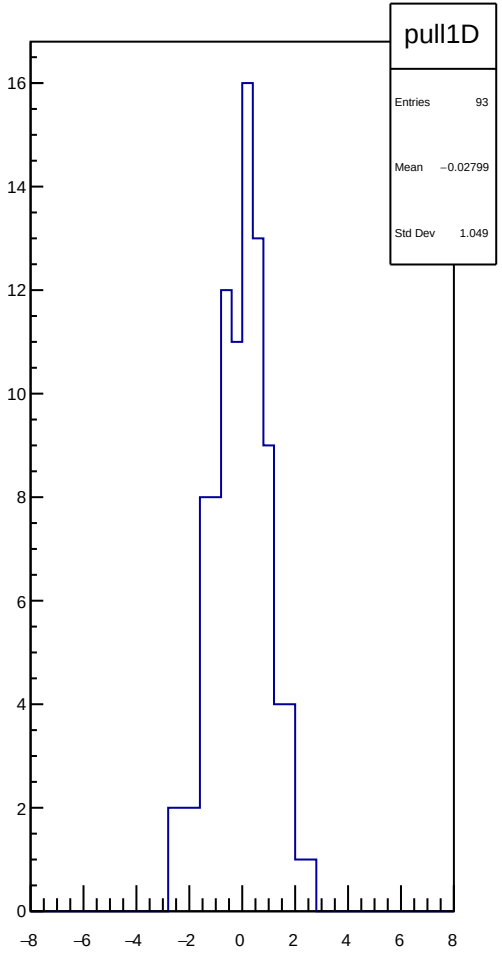

asym_usr_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.667e+05 / 92
p0 1.995e−10 ± 1.783e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

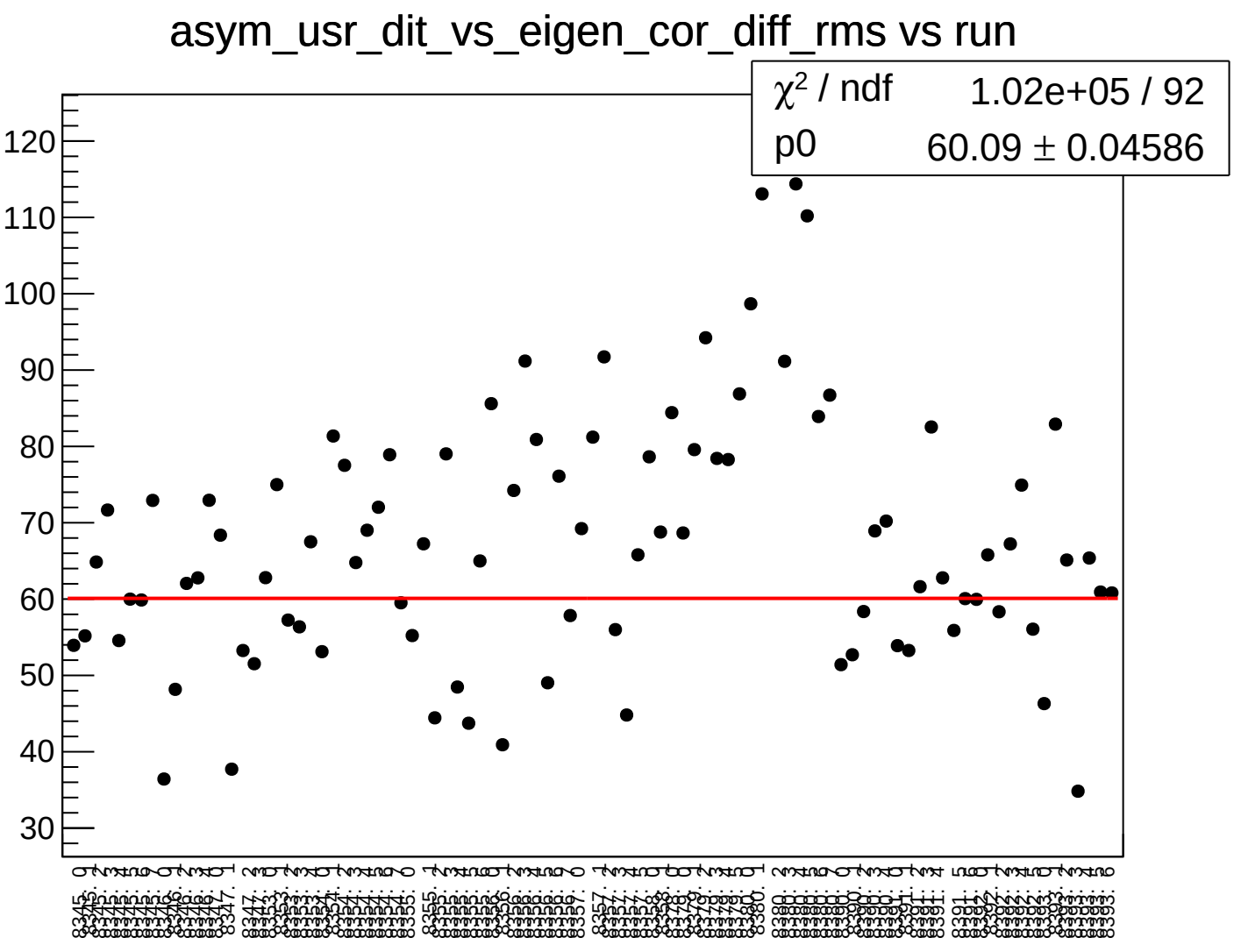

asym_usr_dit_vs_cor_diff_mean vs run
χ² / ndf 102.4 / 92
p0 0.06115 ± 0.06486
pull
Entries 93
Mean −80.8
Std Dev 0

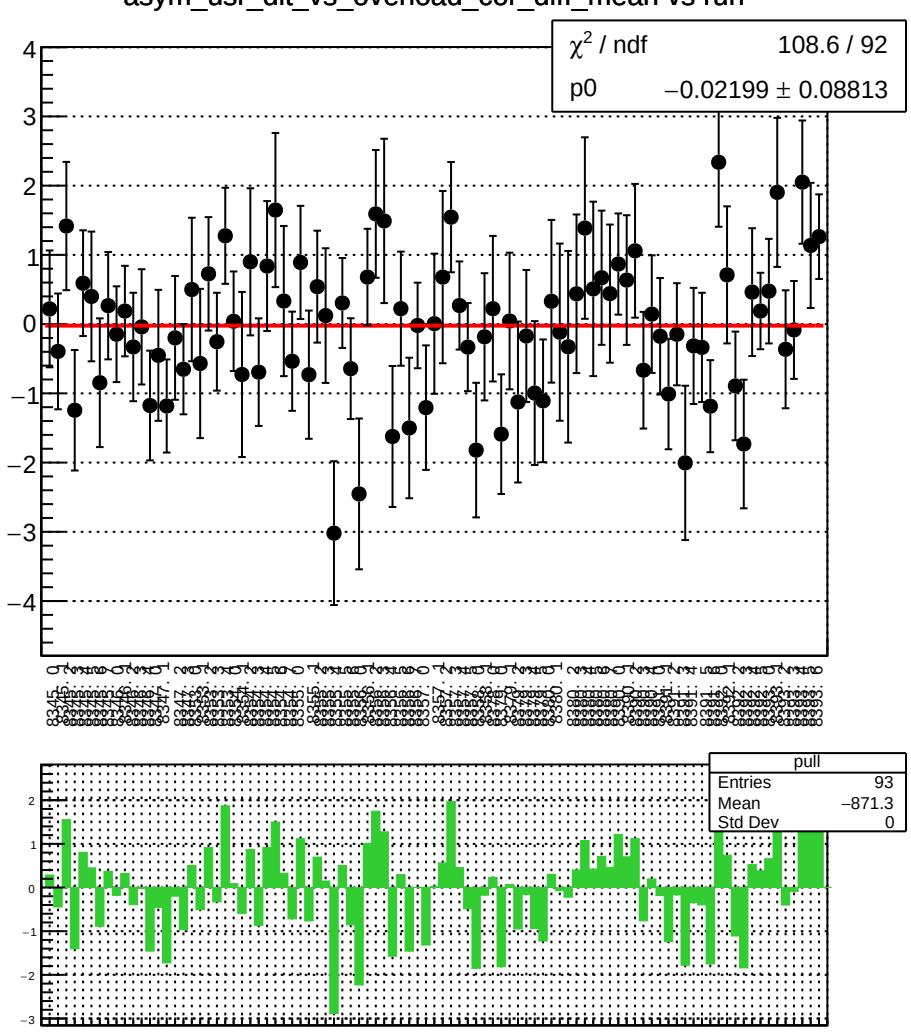

pull1D
Entries 93
Mean −0.02799
Std Dev 1.049

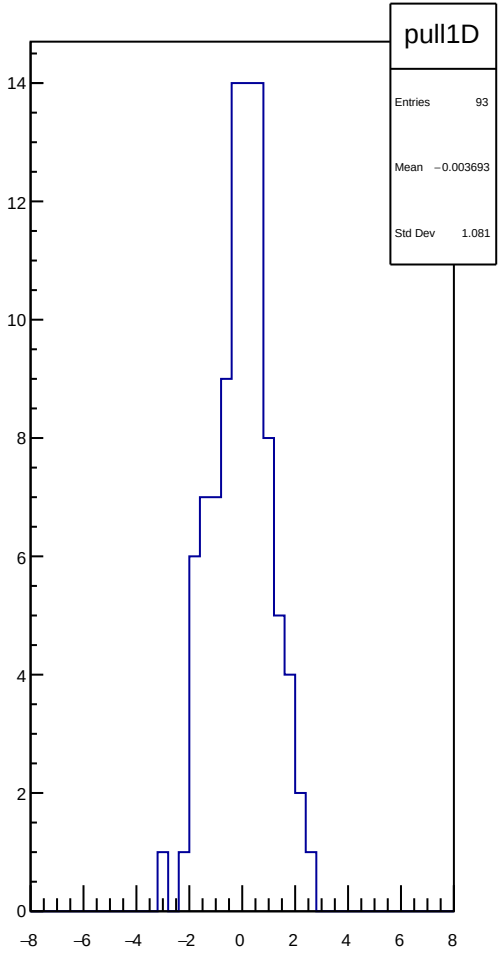

asym_usr_dit_vs_cor_diff_rms vs run
χ² / ndf 1.02e+05 / 92
p0 60.09 ± 0.04586
120
110
100
90
80
70
60
50
40
30

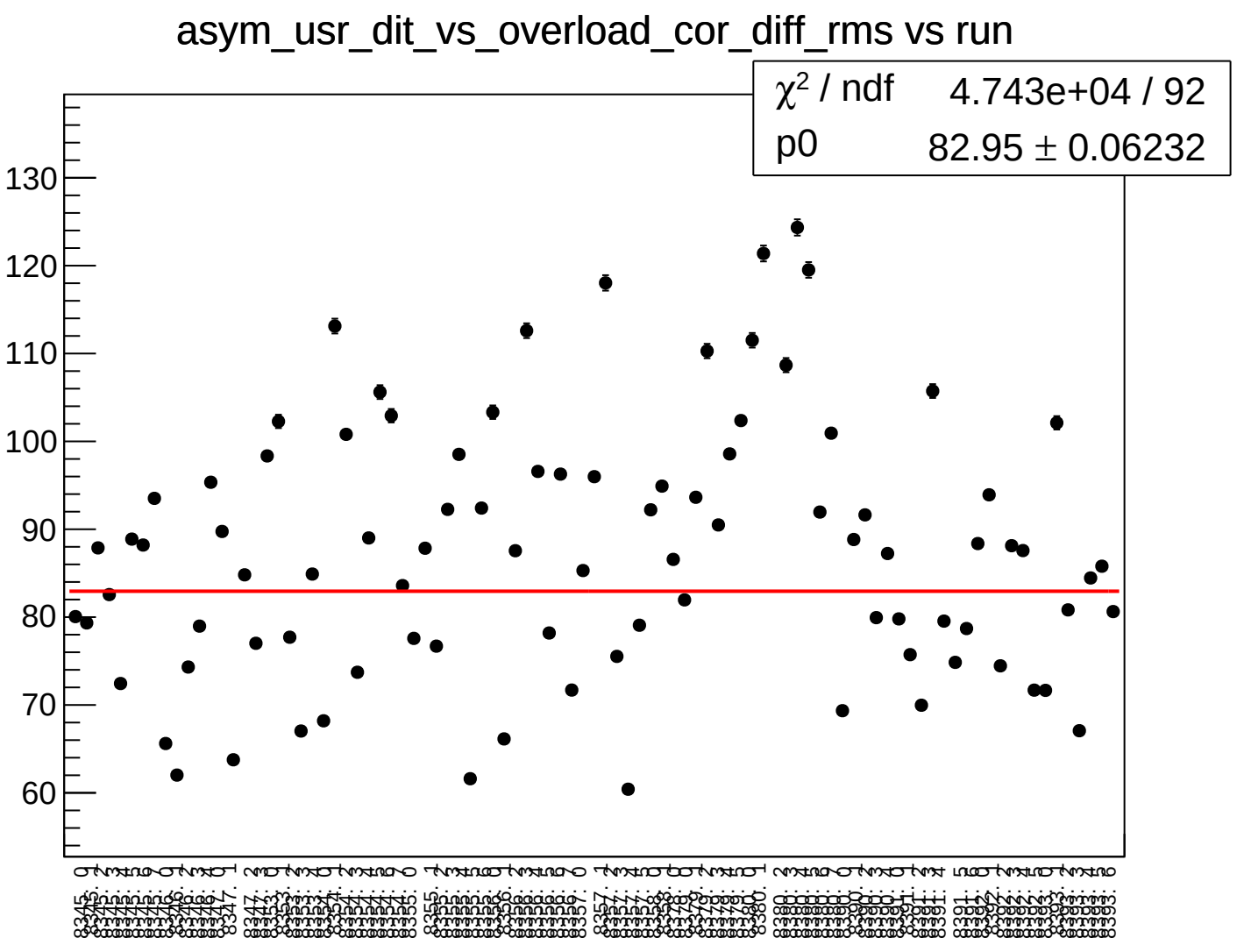

asym_usr_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.4 / 92
p0 0.06115 ± 0.06486
pull
Entries 93
Mean −80.8
Std Dev 0

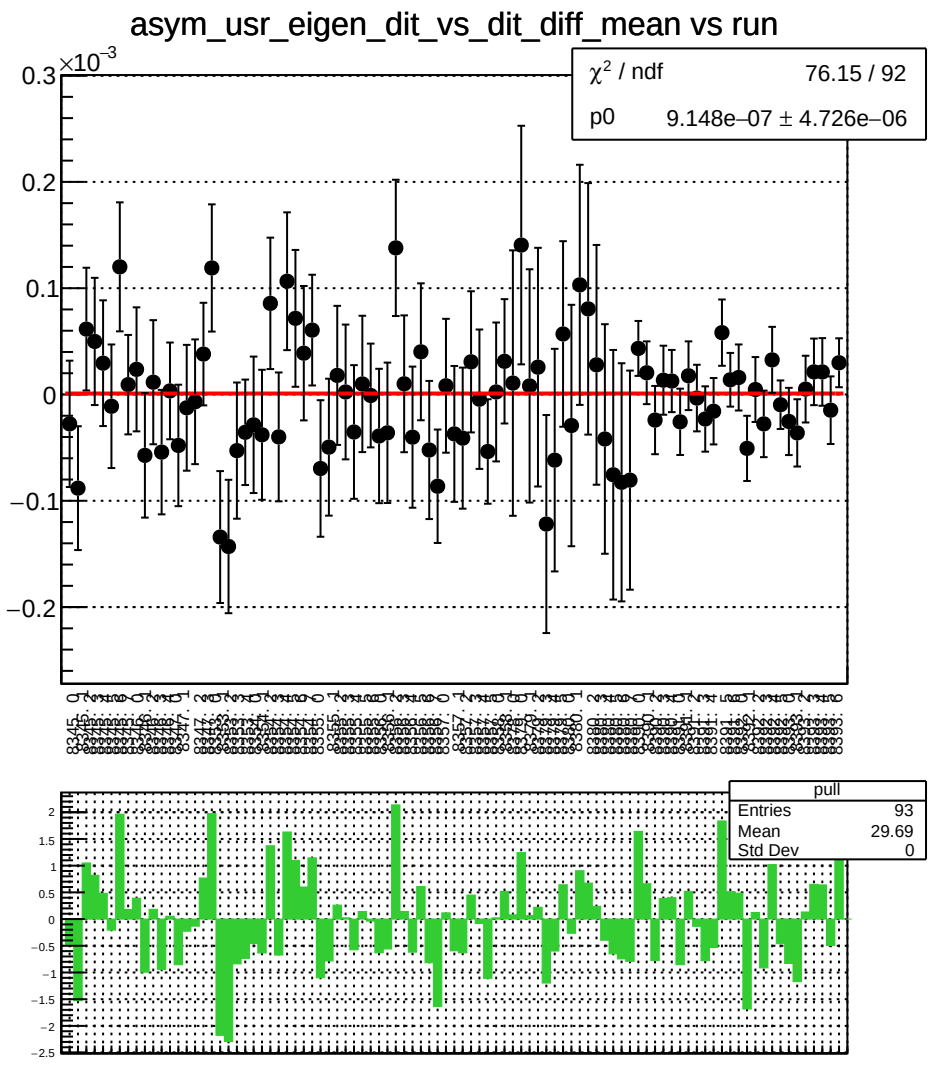

pull1D
Entries 93
Mean −0.02799
Std Dev 1.049

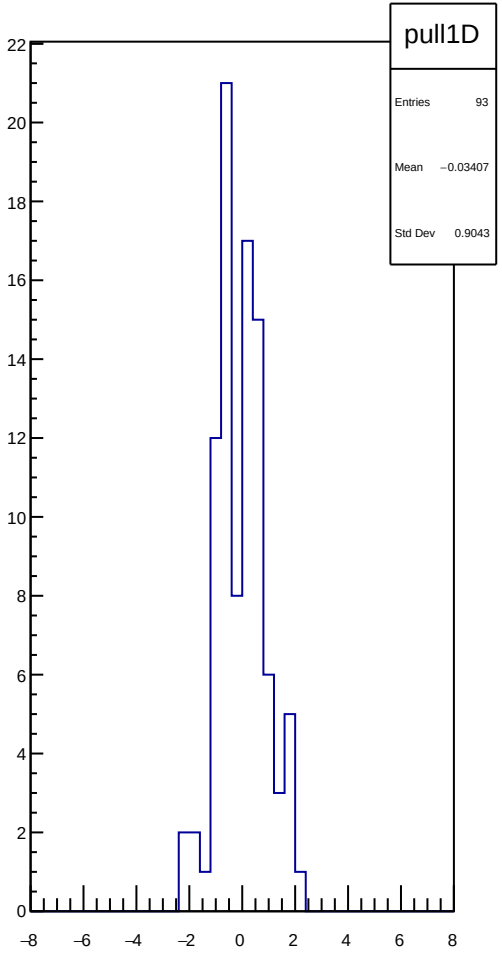

asym_usr_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.02e+05 / 92
p0 60.09 ± 0.04586
120
110
100
90
80
70
60
50
40
30

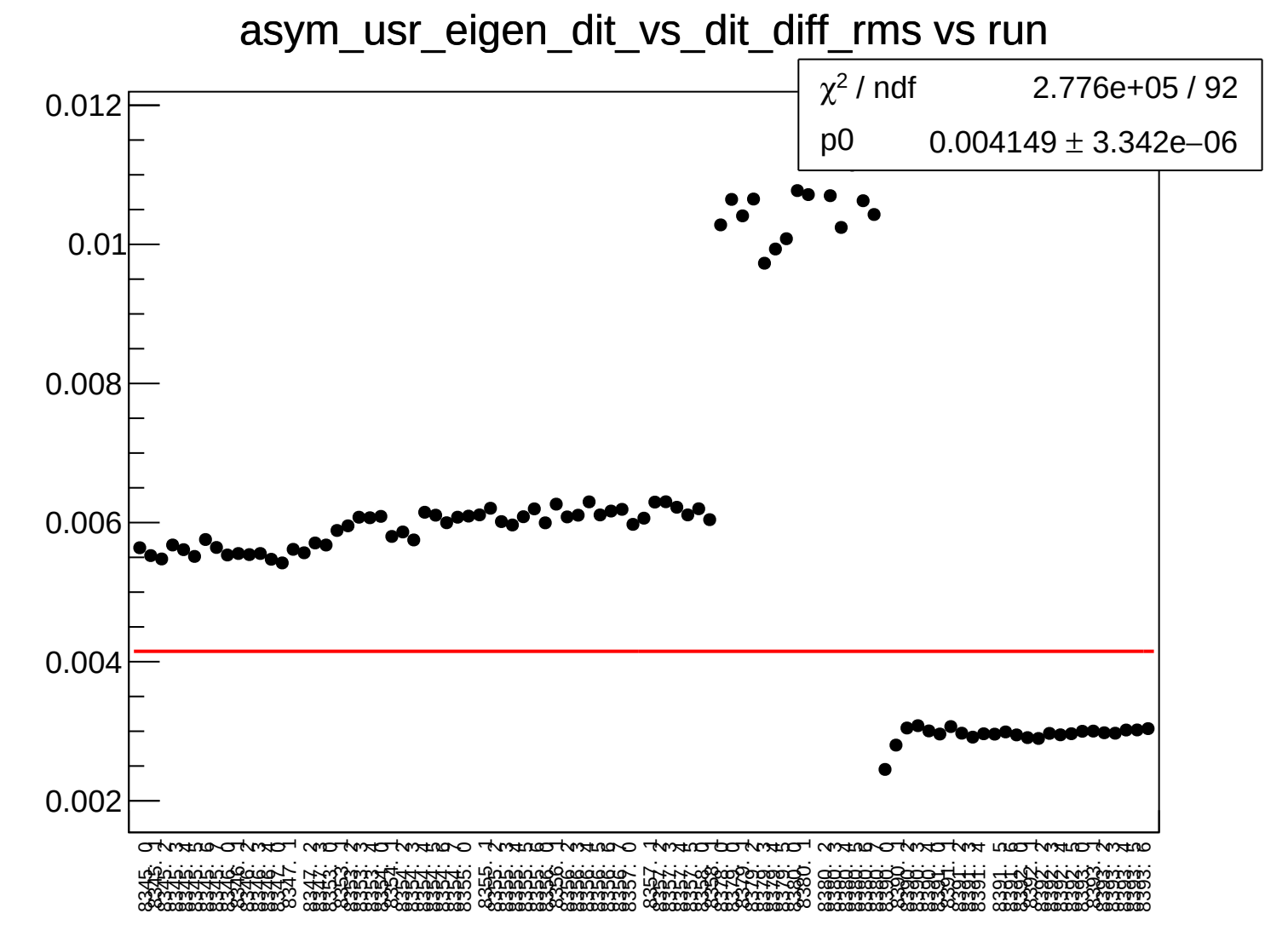

asym_usr_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 108.6 / 92
p0 −0.02199 ± 0.08813
pull
Entries 93
Mean −871.3
Std Dev 0

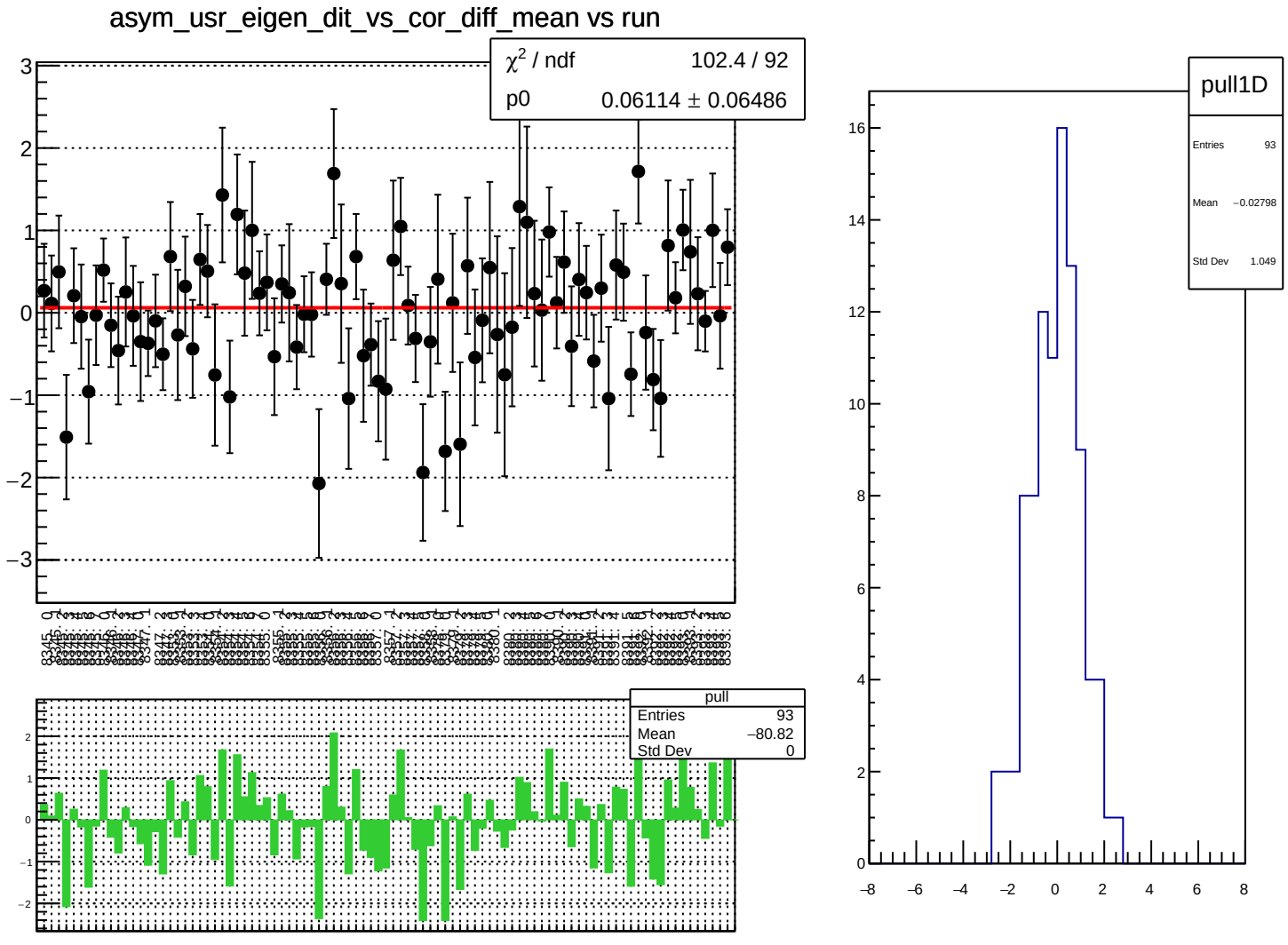

pull1D
Entries 93
Mean −0.003693
Std Dev 1.081

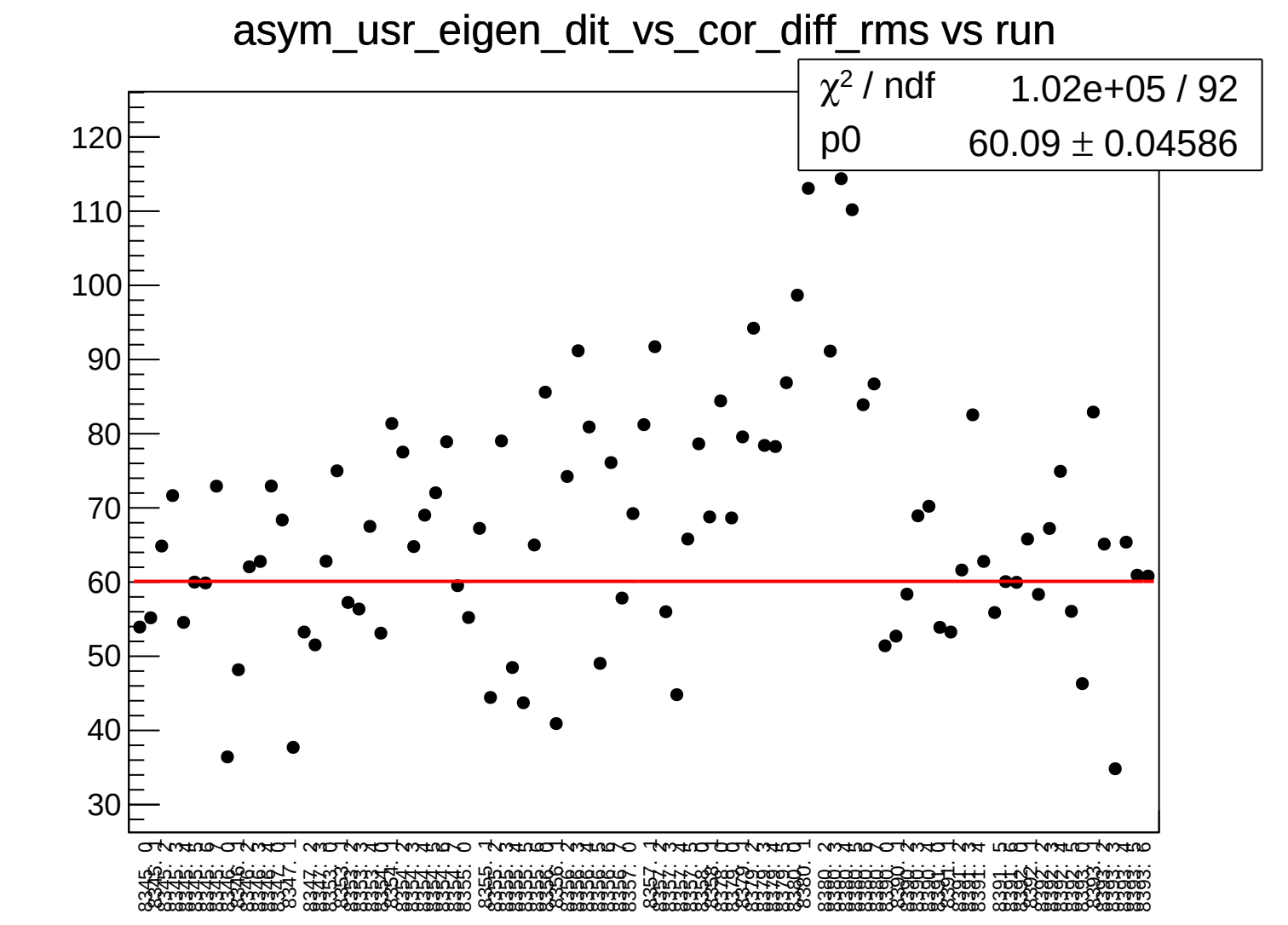

asym_usr_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 4.743e+04 / 92
p0 82.95 ± 0.06232
130
120
110
100
90
80
70
60

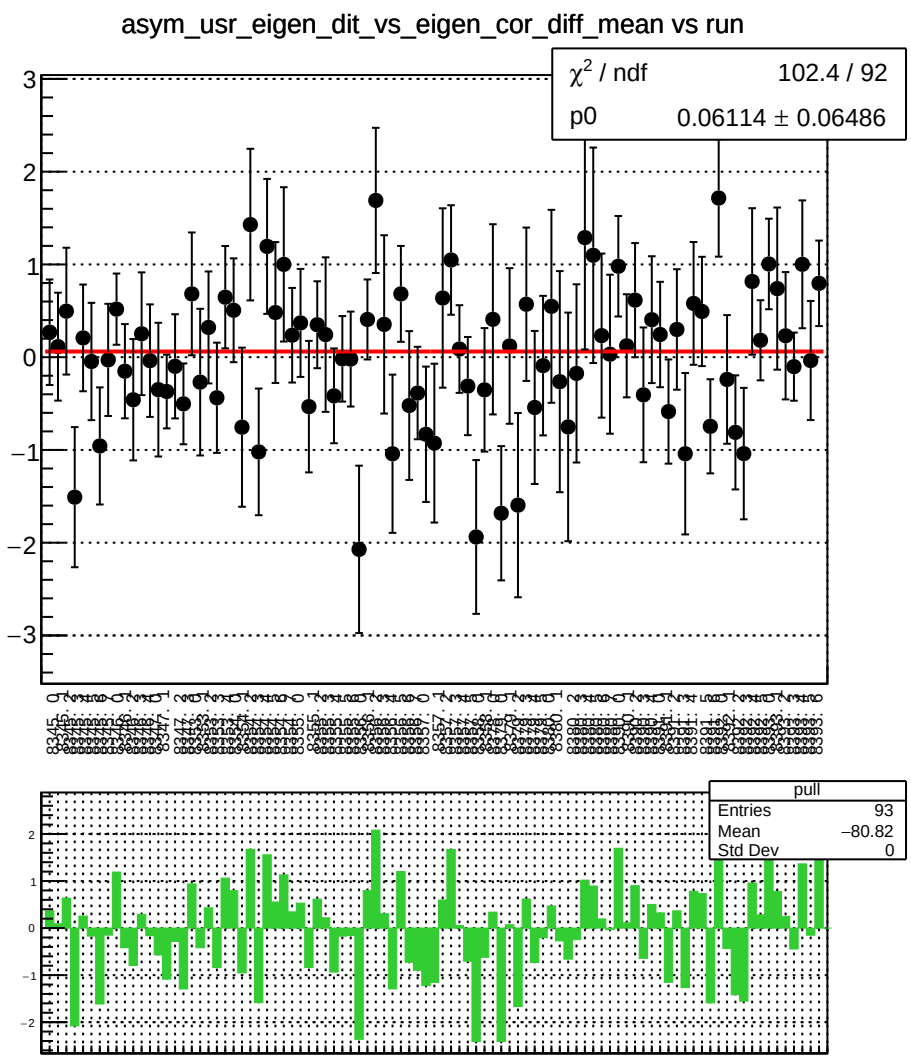

asym_usr_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.15 / 92
p0 9.148e−07 ± 4.726e−06
pull
Entries 93
Mean 29.69
Std Dev 0

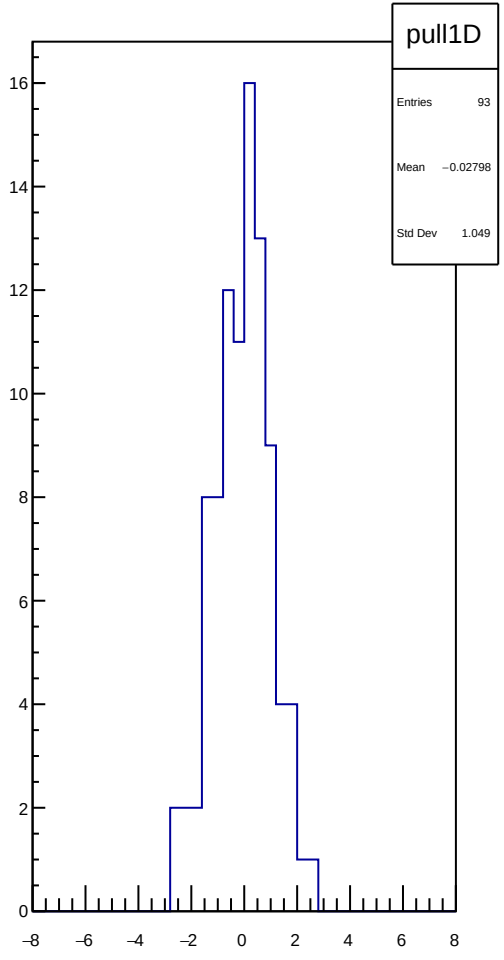

pull1D
Entries 93
Mean −0.03407
Std Dev 0.9043

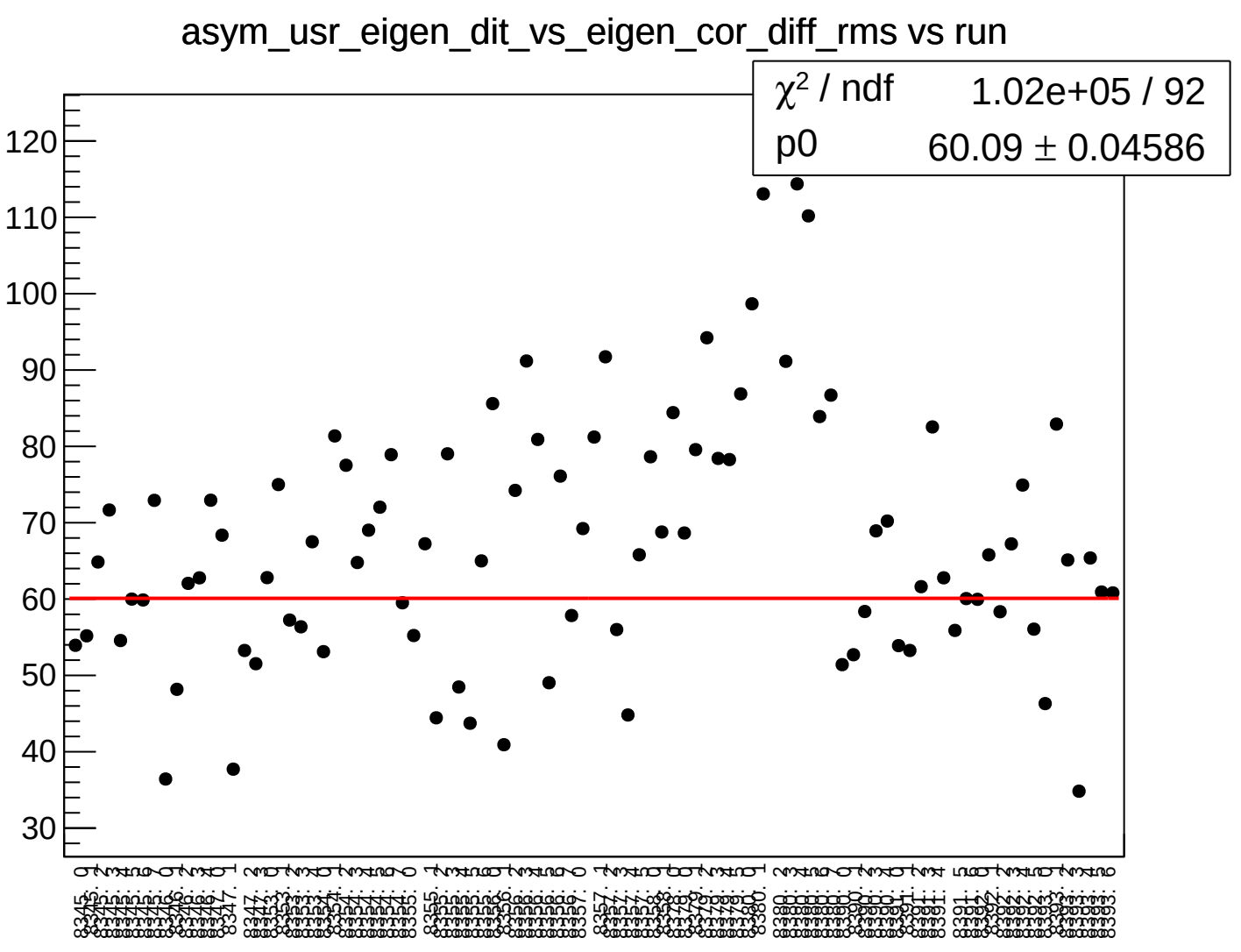

asym_usr_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.776e+05 / 92
p0 0.004149 ± 3.342e−06
0.012
0.01
0.008
0.006
0.004
0.002

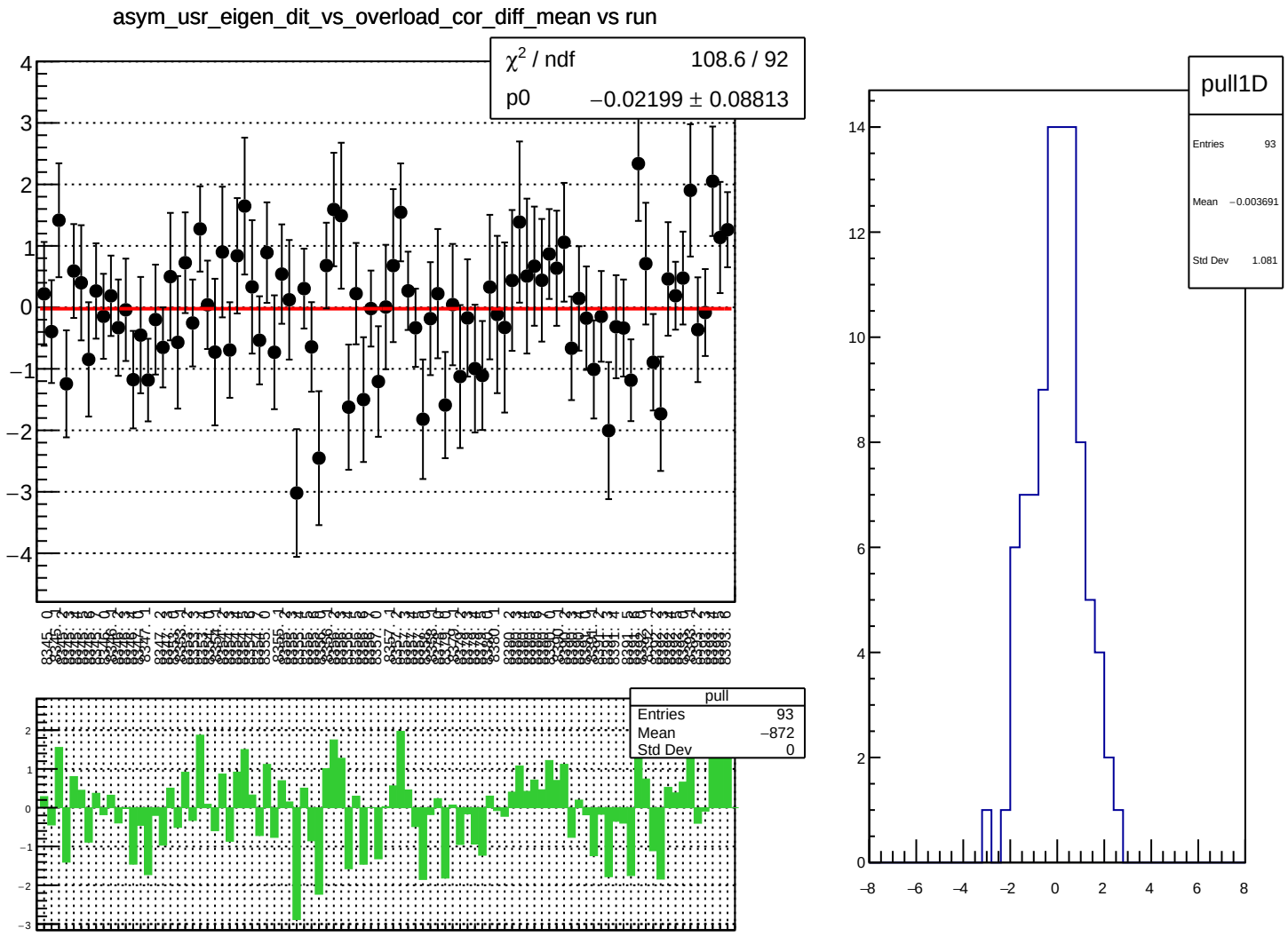

asym_usr_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 102.4 / 92
p0 0.06114 ± 0.06486
pull
Entries 93
Mean −80.82
Std Dev 0
pull1D
Entries 93
Mean −0.02798
Std Dev 1.049

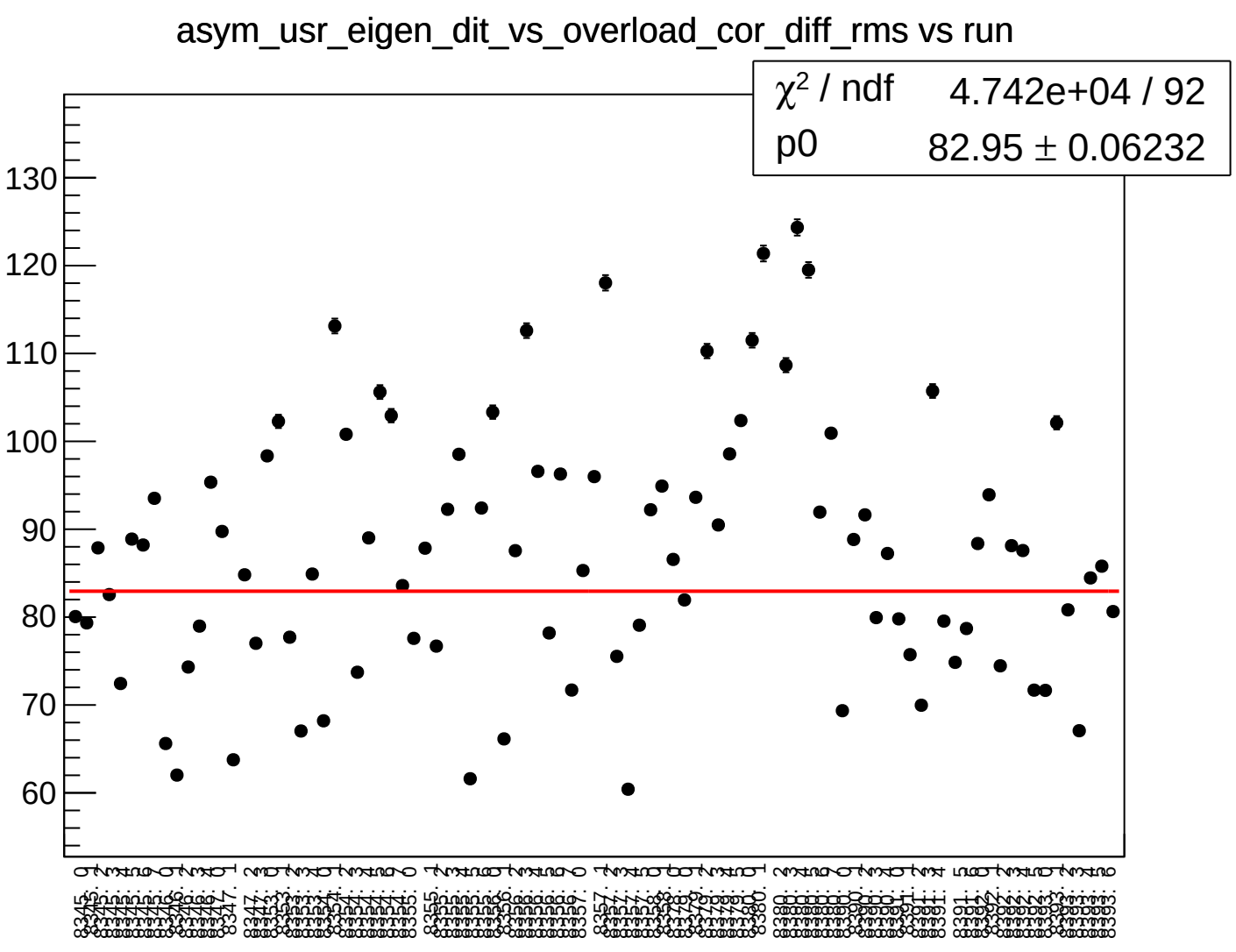

asym_usr_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.02e+05 / 92
p0 60.09 ± 0.04586
120
110
100
90
80
70
60
50
40
30

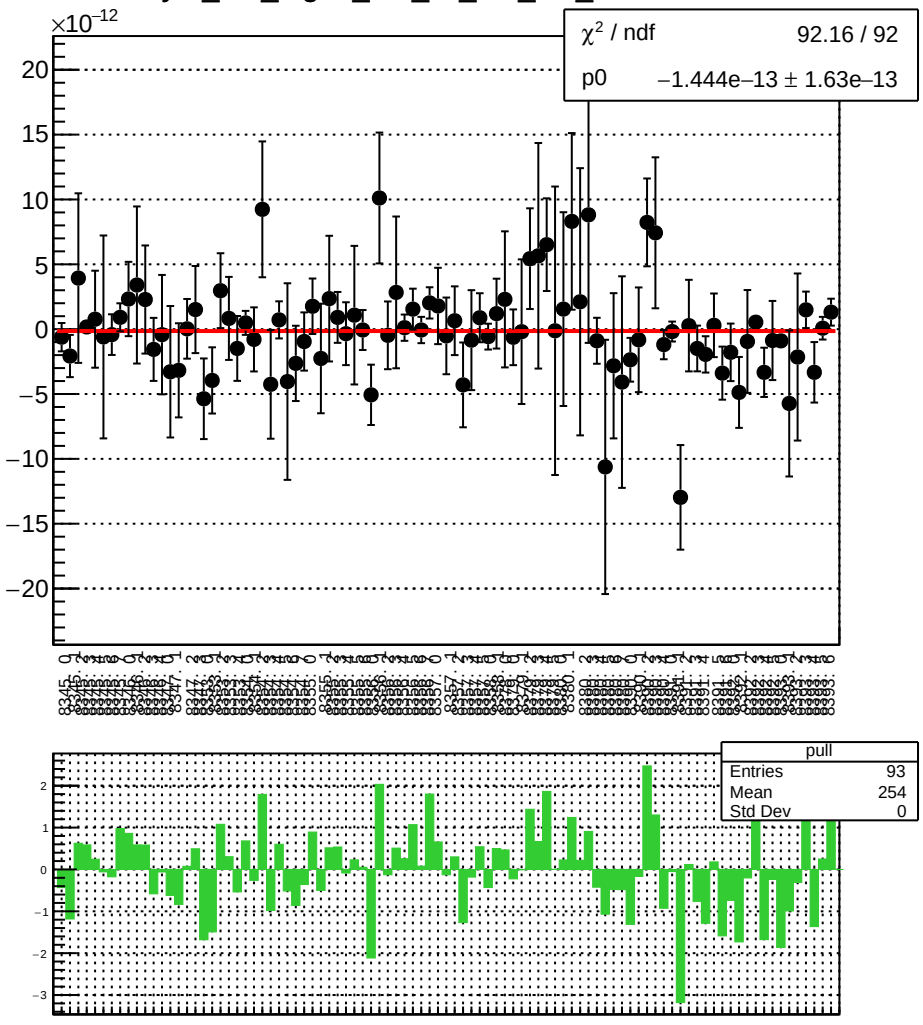

asym_usr_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.4 / 92
p0 0.06114 ± 0.06486
pull
Entries 93
Mean −80.82
Std Dev 0

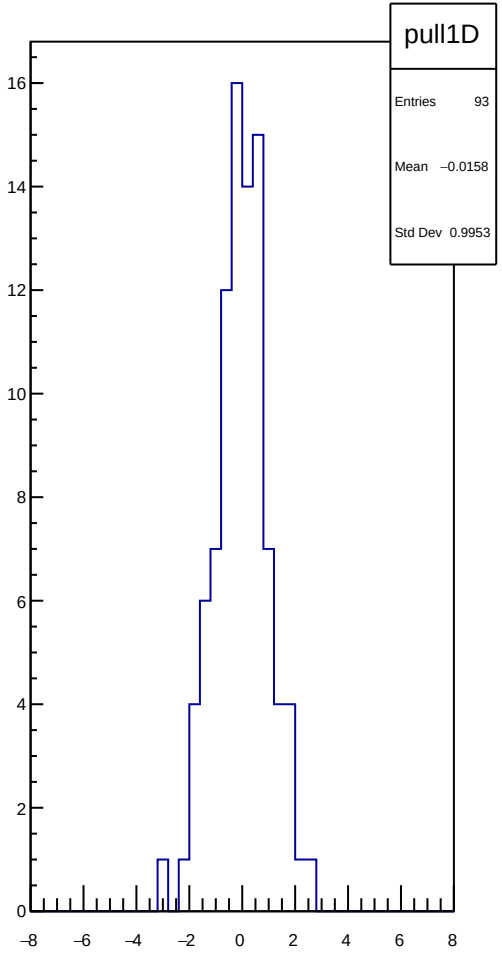

pull1D
Entries 93
Mean −0.02798
Std Dev 1.049

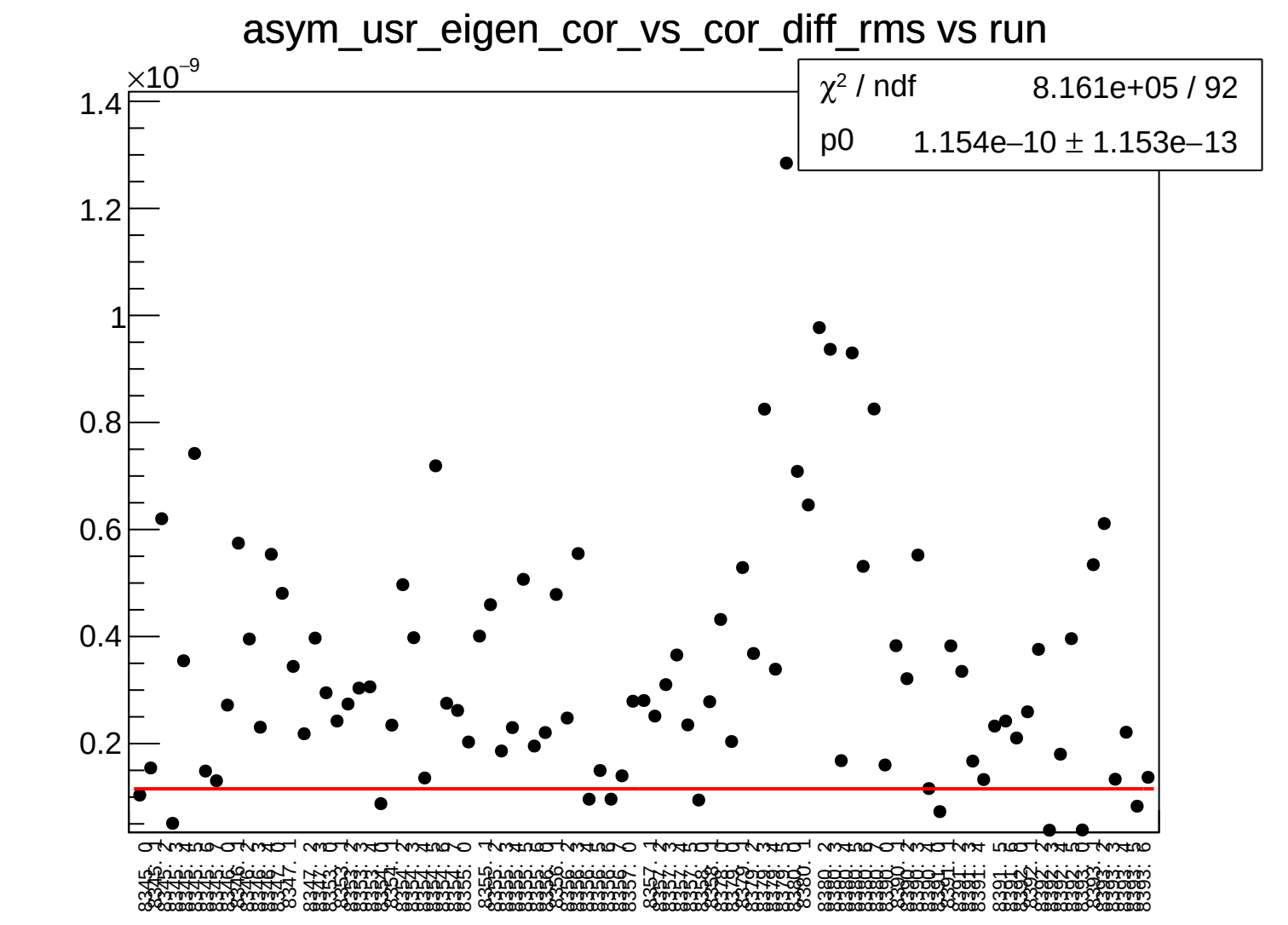

asym_usr_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.02e+05 / 92
p0 60.09 ± 0.04586
120
110
100
90
80
70
60
50
40
30

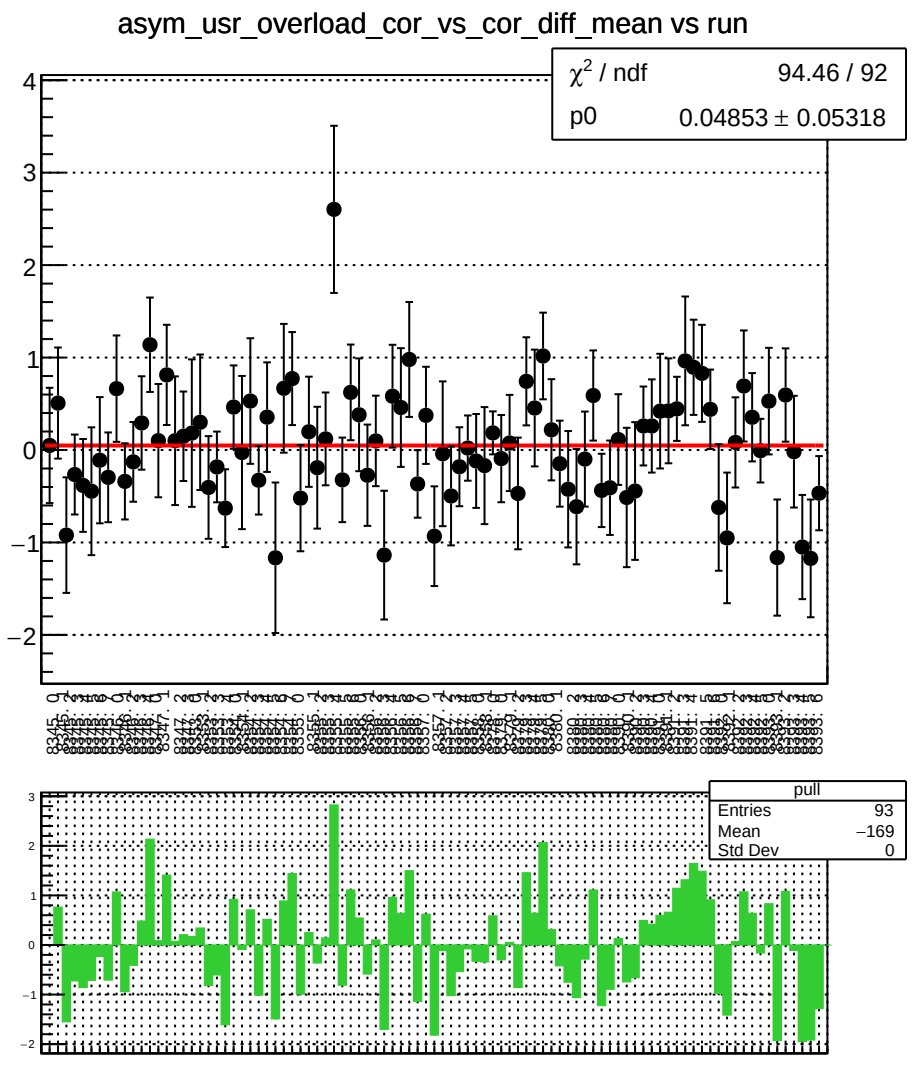

asym_usr_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 108.6 / 92
p0 −0.02199 ± 0.08813
pull
Entries 93
Mean −872
Std Dev 0
pull1D
Entries 93
Mean −0.003691
Std Dev 1.081

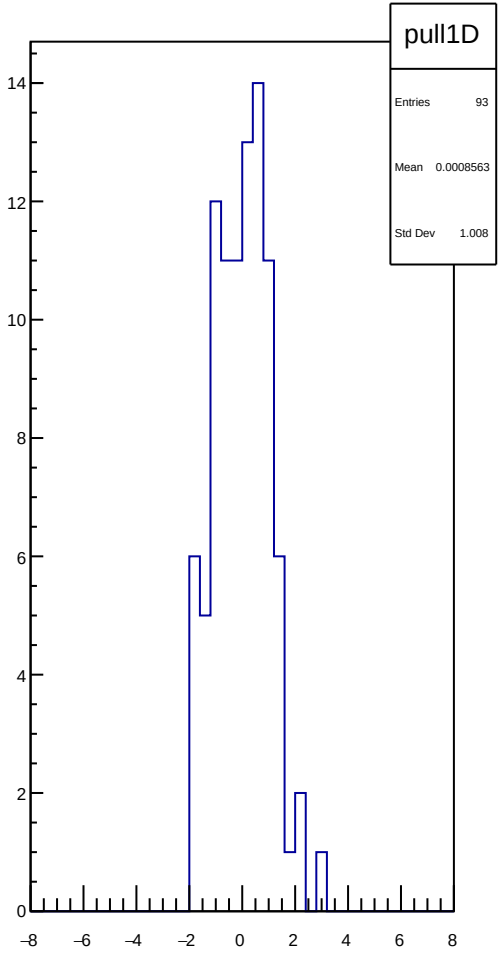

asym_usr_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 4.742e+04 / 92
p0 82.95 ± 0.06232
130
120
110
100
90
80
70
60

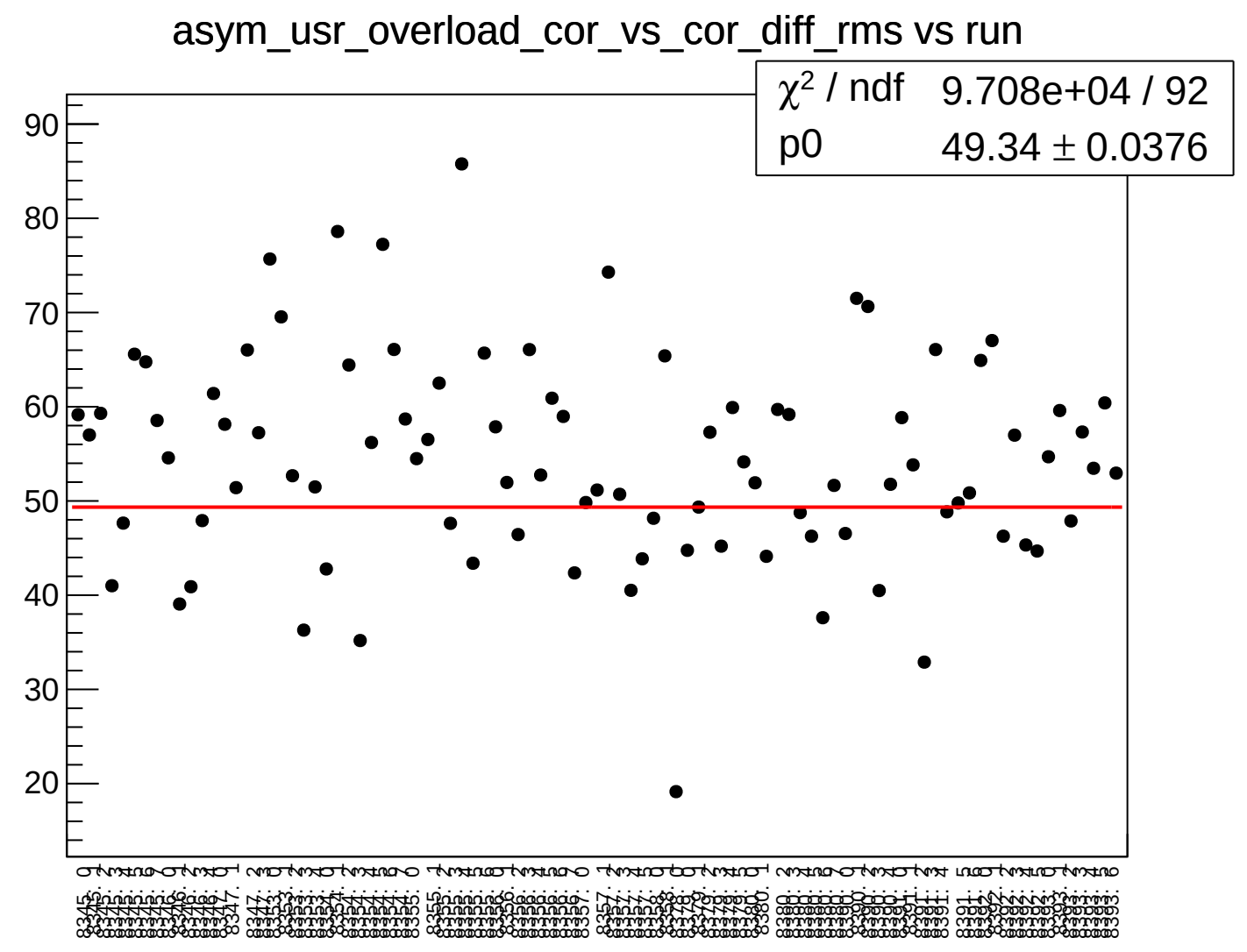

asym_usr_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.16 / 92
p0 −1.444e−13 ± 1.63e−13
pull
Entries 93
Mean 254
Std Dev 0

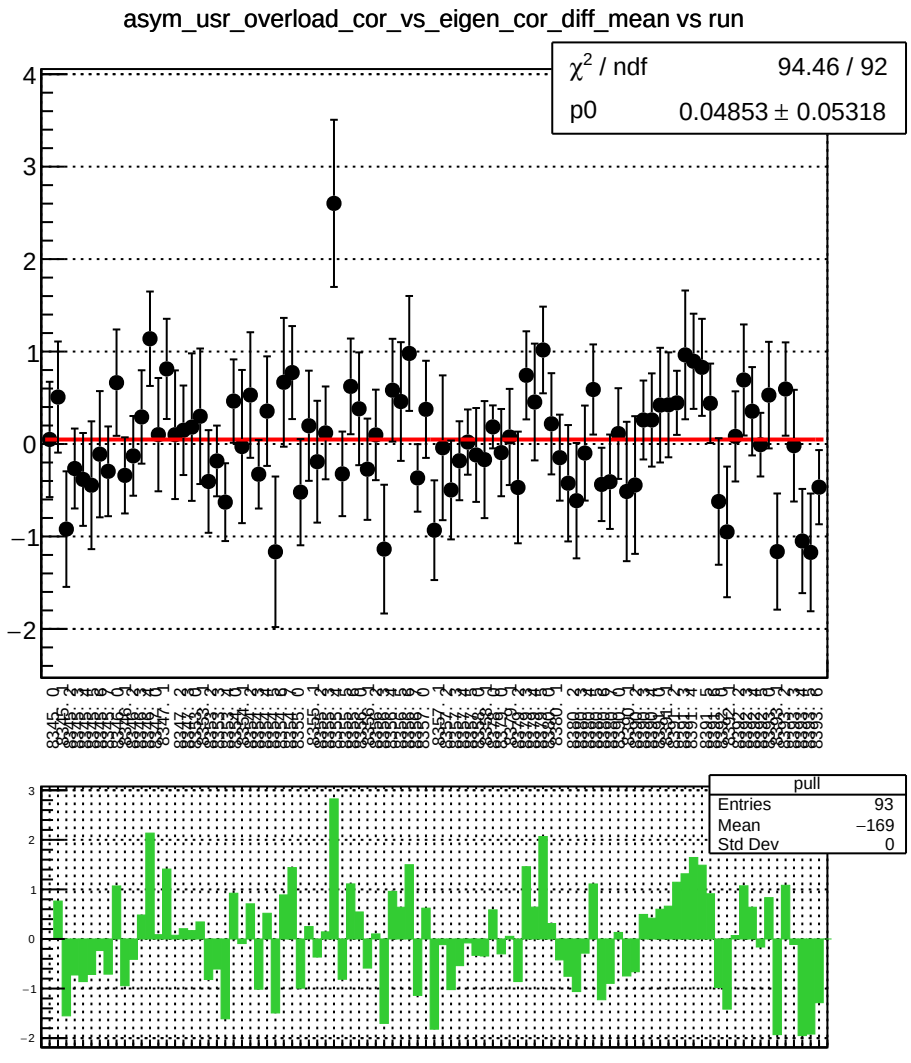

pull1D
Entries 93
Mean −0.0158
Std Dev 0.9953

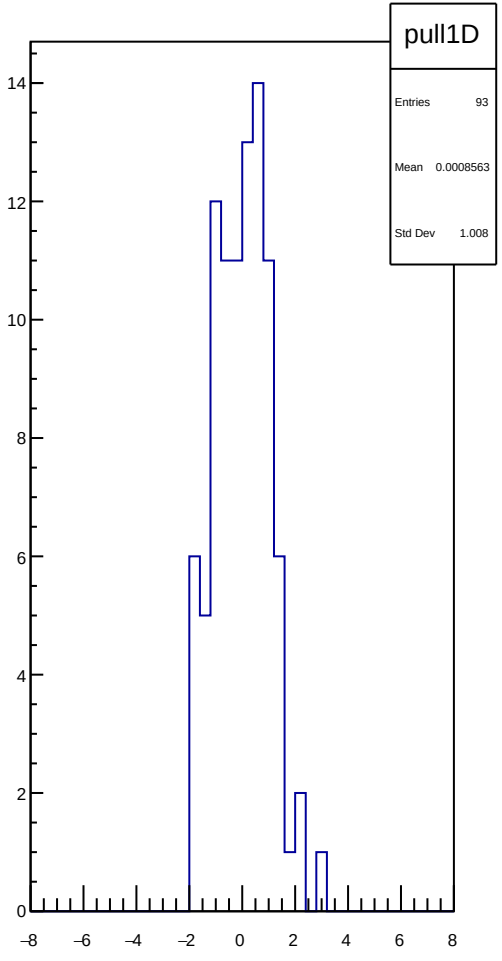

asym_usr_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.161e+05 / 92
p0 1.154e−10 ± 1.153e−13
1.4
1.2
1
0.8
0.6
0.4
0.2

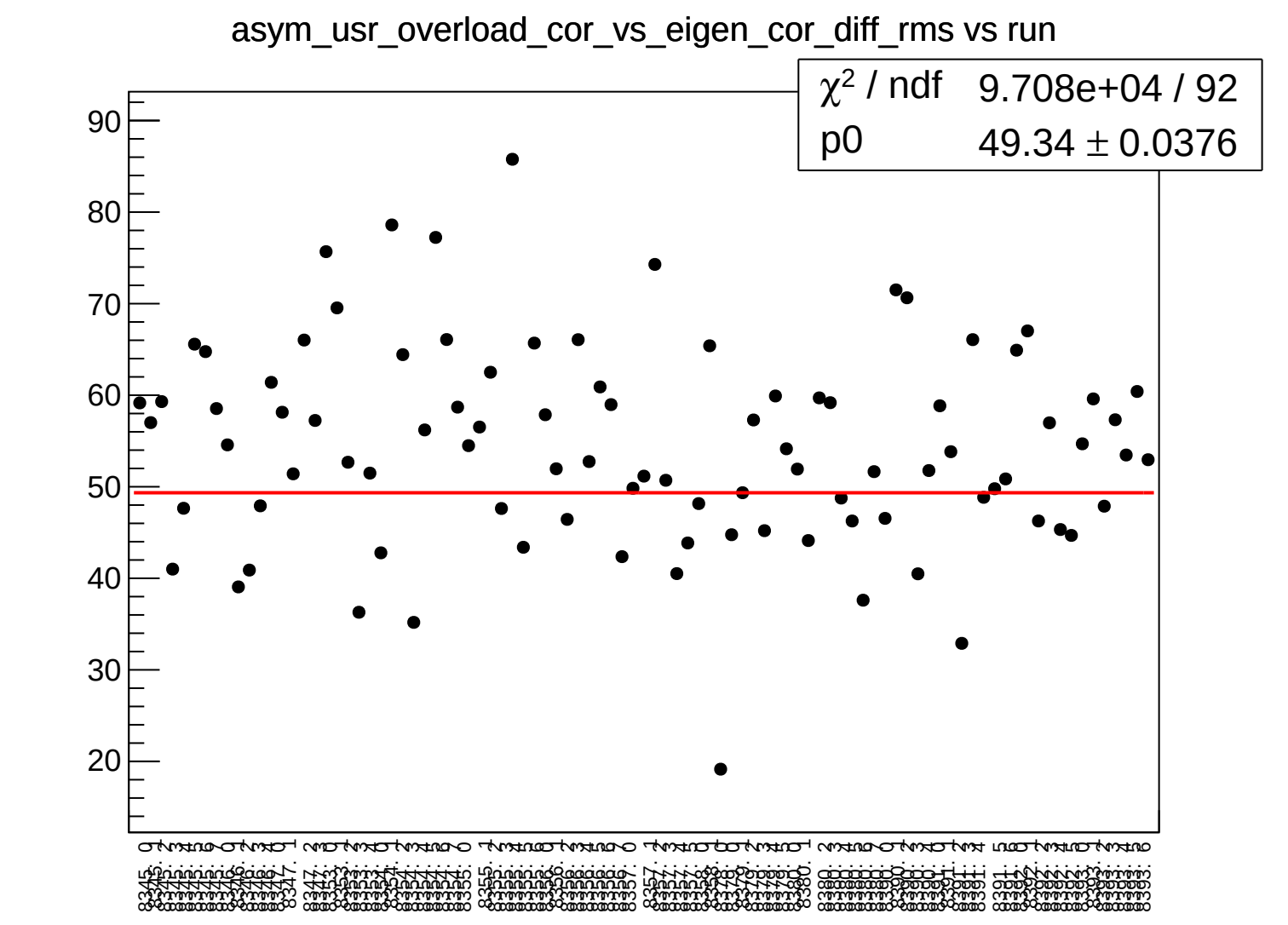

asym_usr_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 94.46 / 92
p0 0.04853 ± 0.05318
pull
Entries 93
Mean −169
Std Dev 0

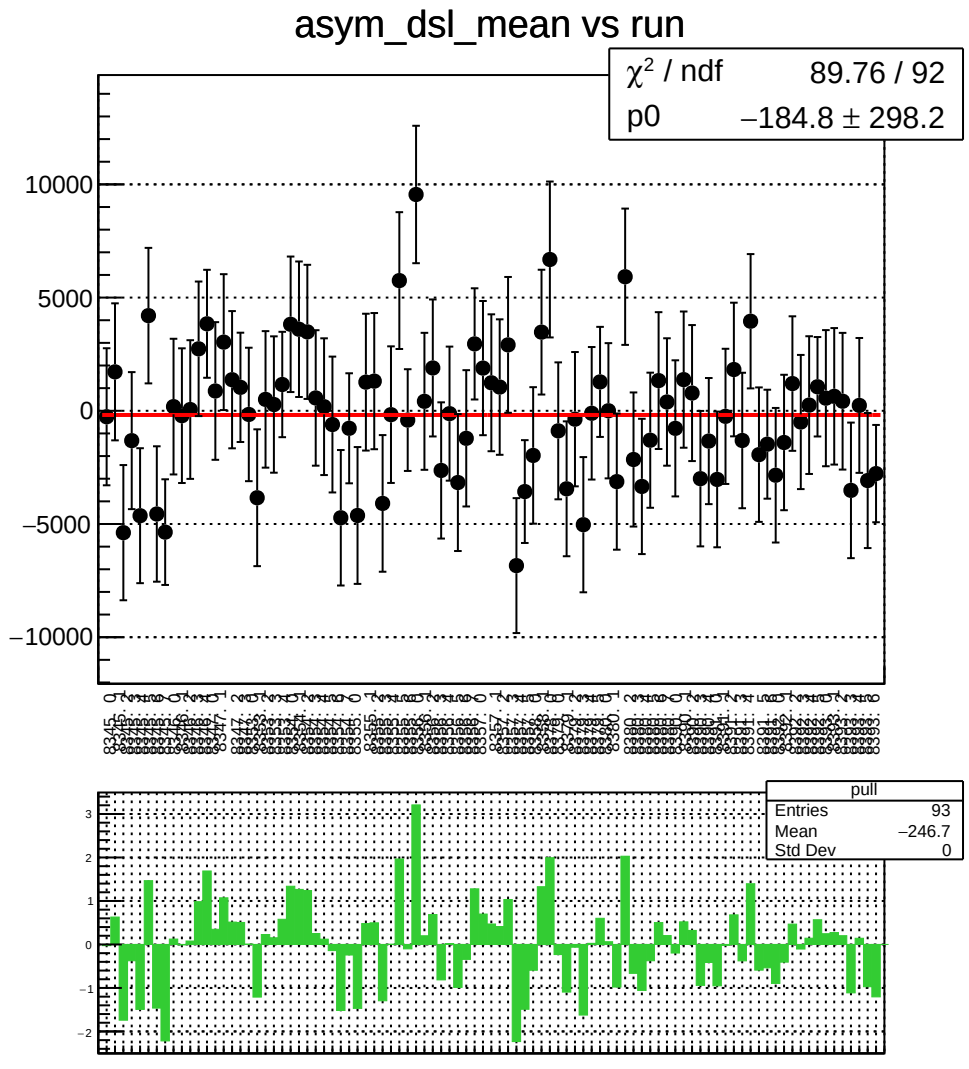

pull1D
Entries 93
Mean 0.0008563
Std Dev 1.008

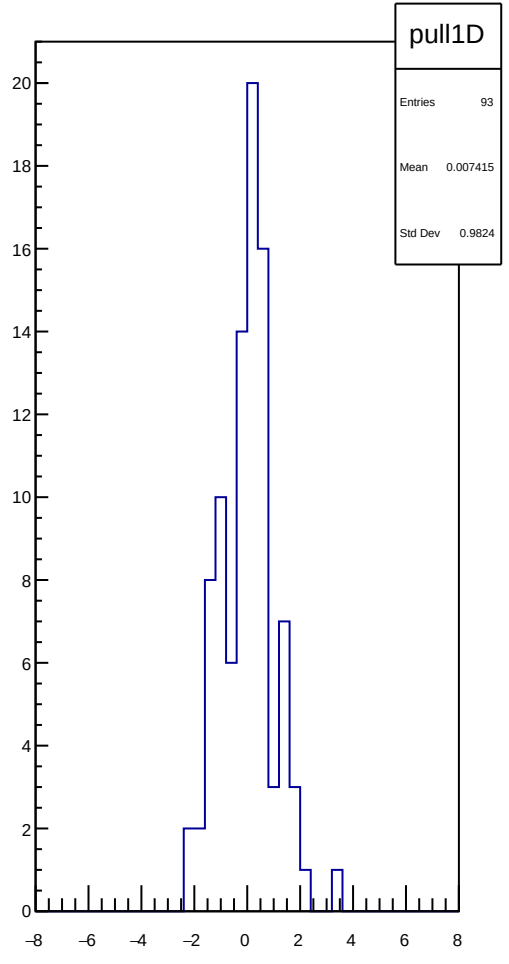

asym_usr_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 9.708e+04 / 92
p0 49.34 ± 0.0376
90
80
70
60
50
40
30
20

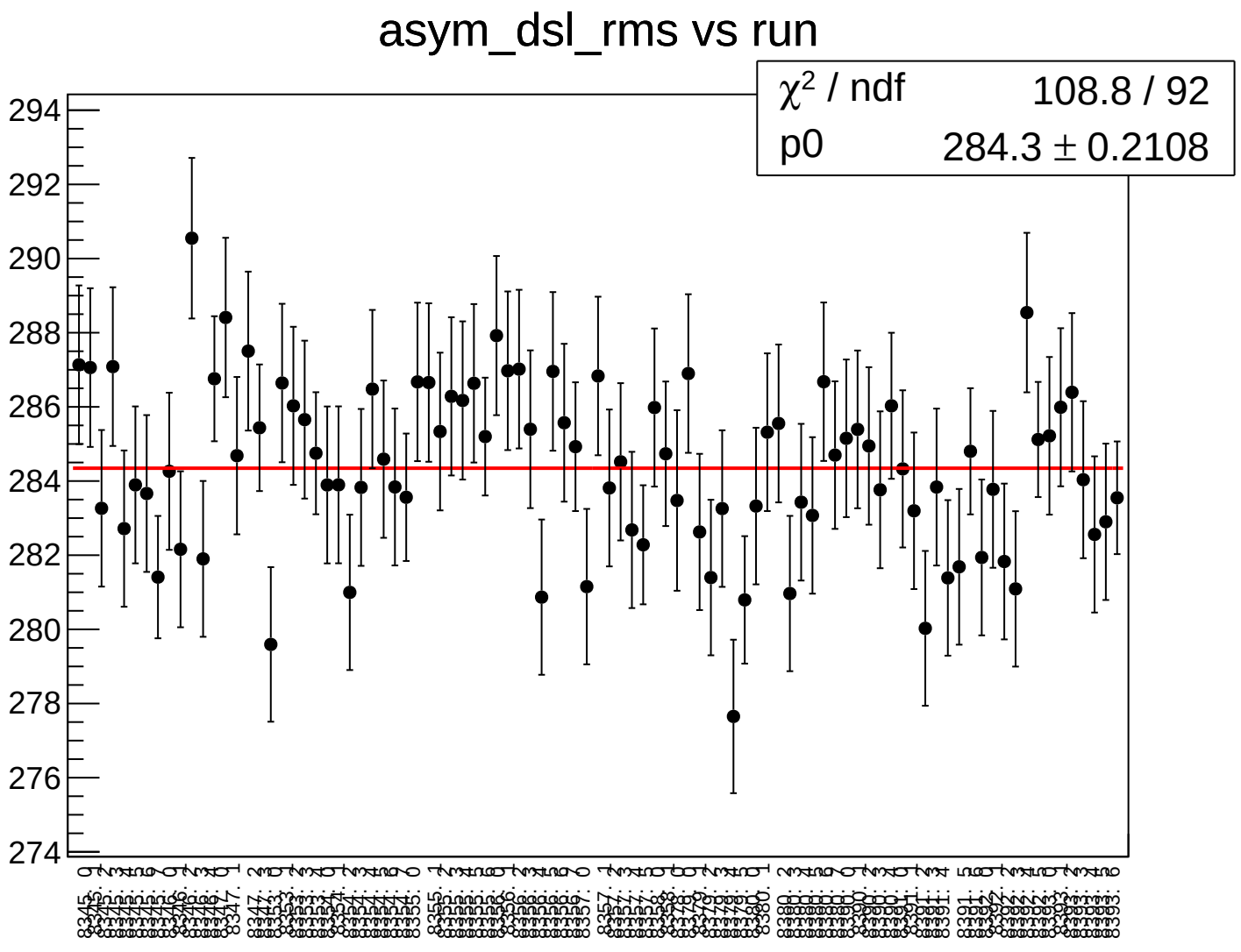

asym_usr_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.46 / 92
p0 0.04853 ± 0.05318
pull
Entries 93
Mean −169
Std Dev 0

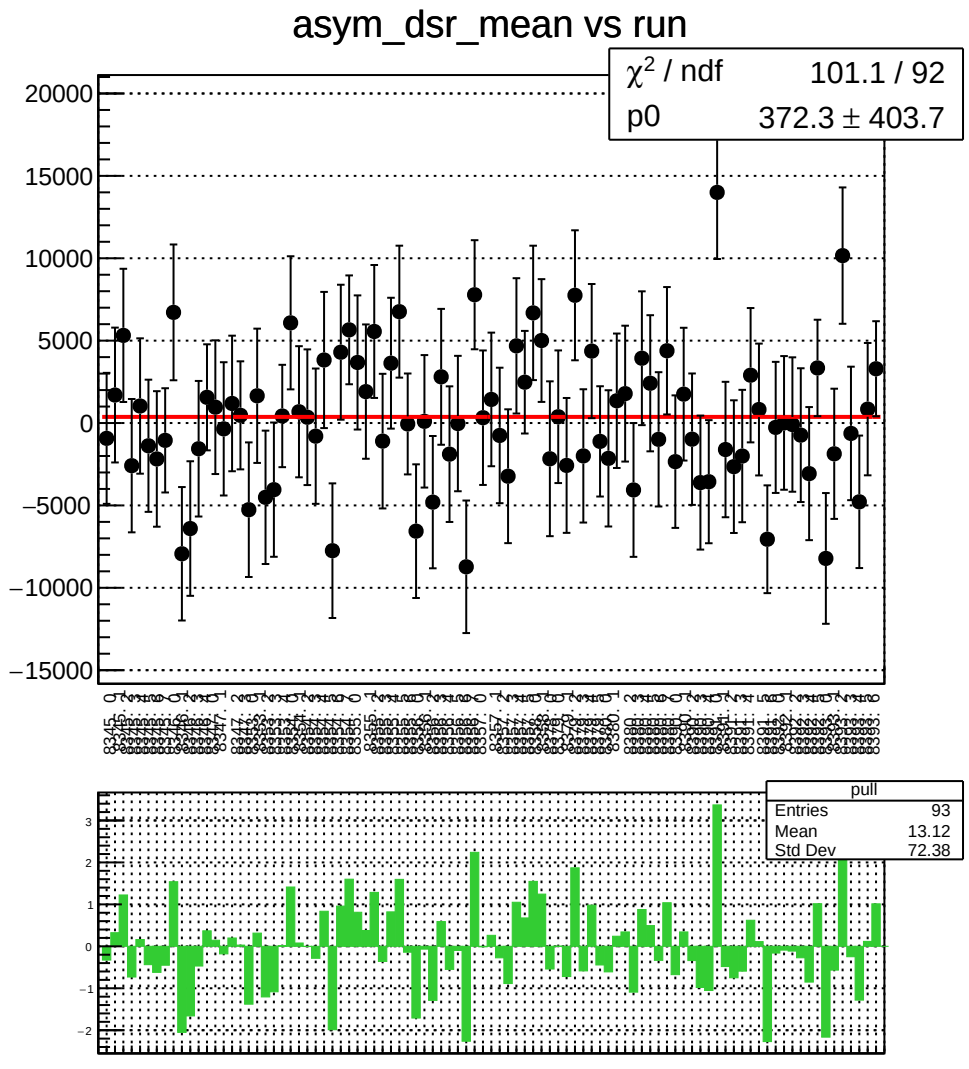

pull1D
Entries 93
Mean 0.0008563
Std Dev 1.008

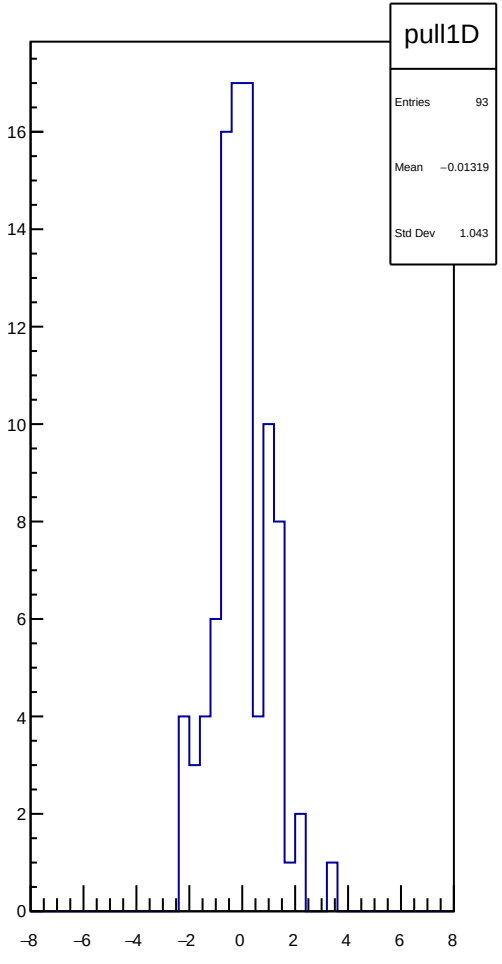

asym_usr_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.708e+04 / 92
p0 49.34 ± 0.0376
90
80
70
60
50
40
30
20

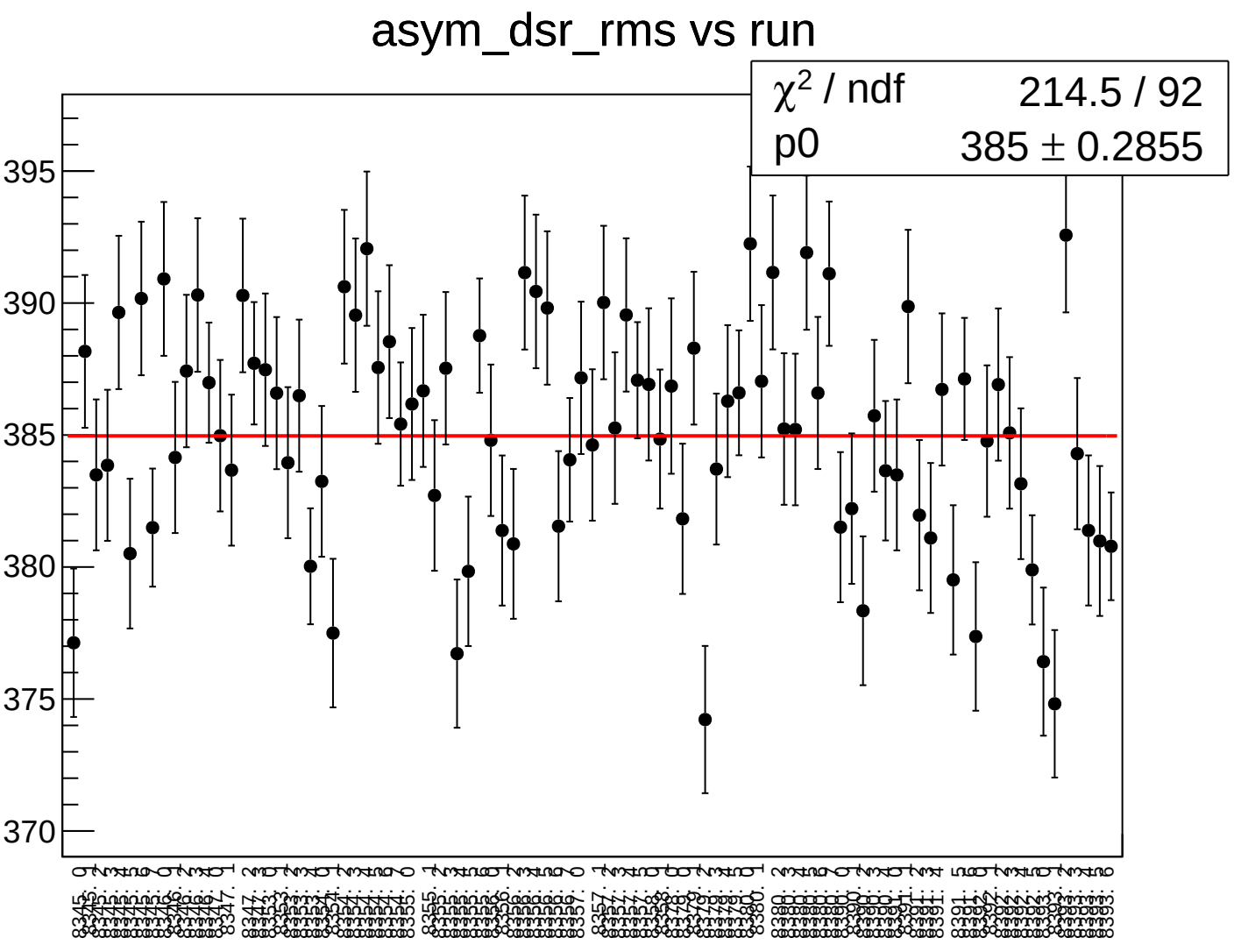

asym_dsl_mean vs run
χ² / ndf 89.76 / 92
p0 −184.8 ± 298.2
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −246.7
Std Dev 0
3
2
1
0
−1
−2

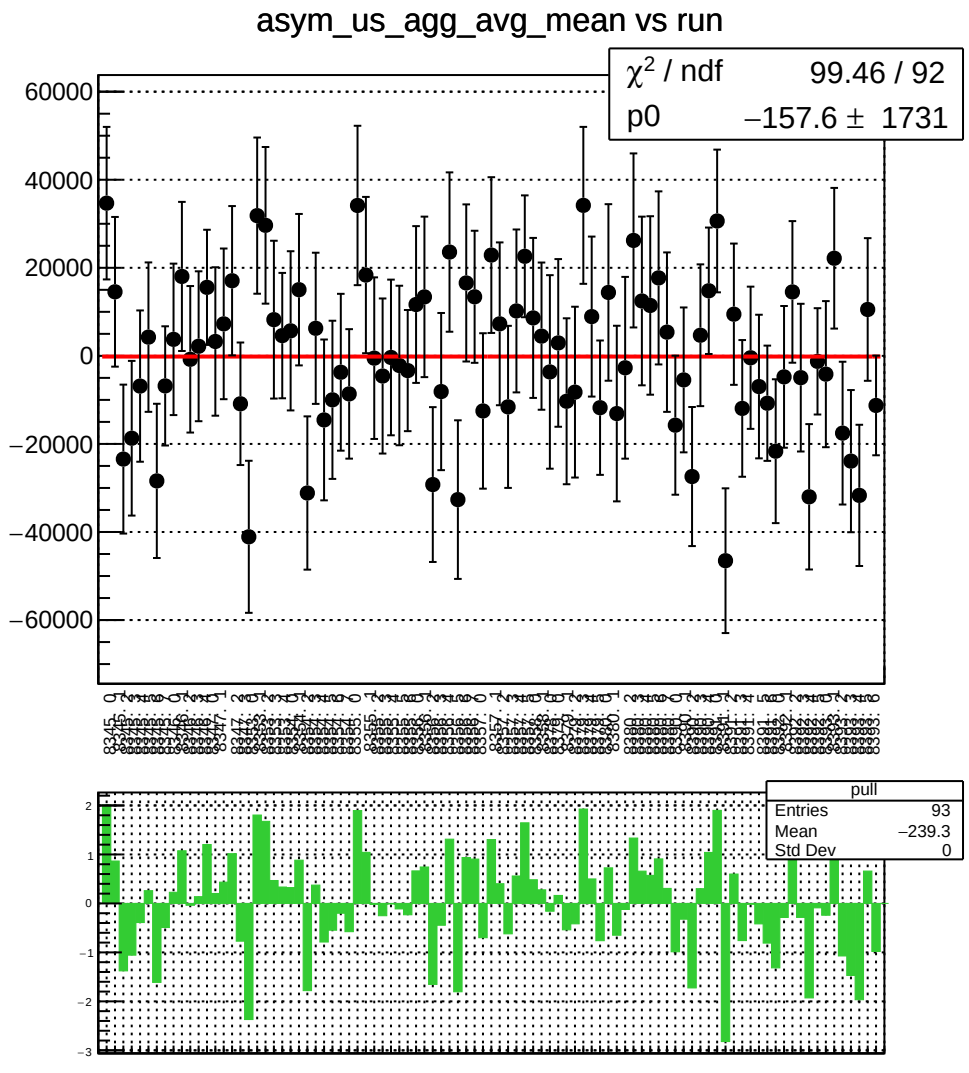

pull1D
Entries 93
Mean 0.007415
Std Dev 0.9824
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

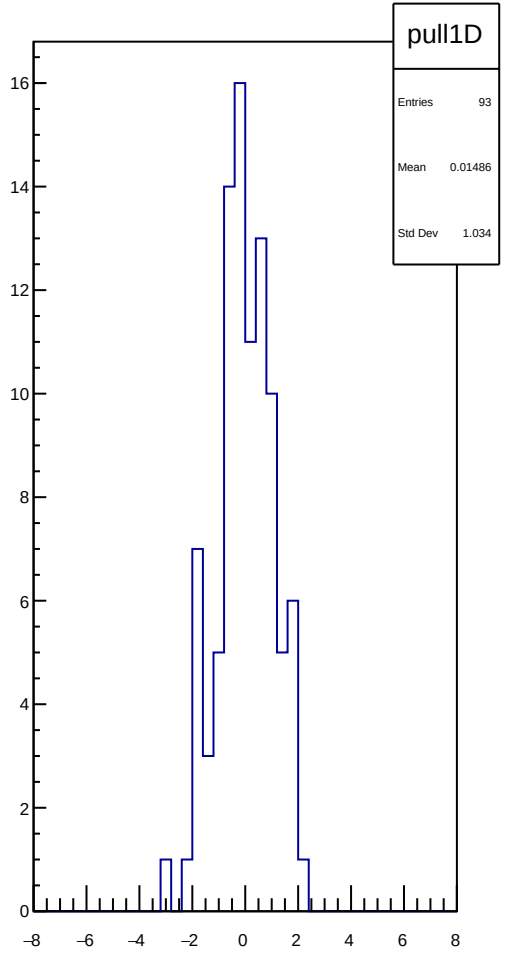

asym_dsl_rms vs run
χ^2 / ndf 108.8 / 92
p0 284.3 ± 0.2108
294
292
290
288
286
284
282
280
278
276
274

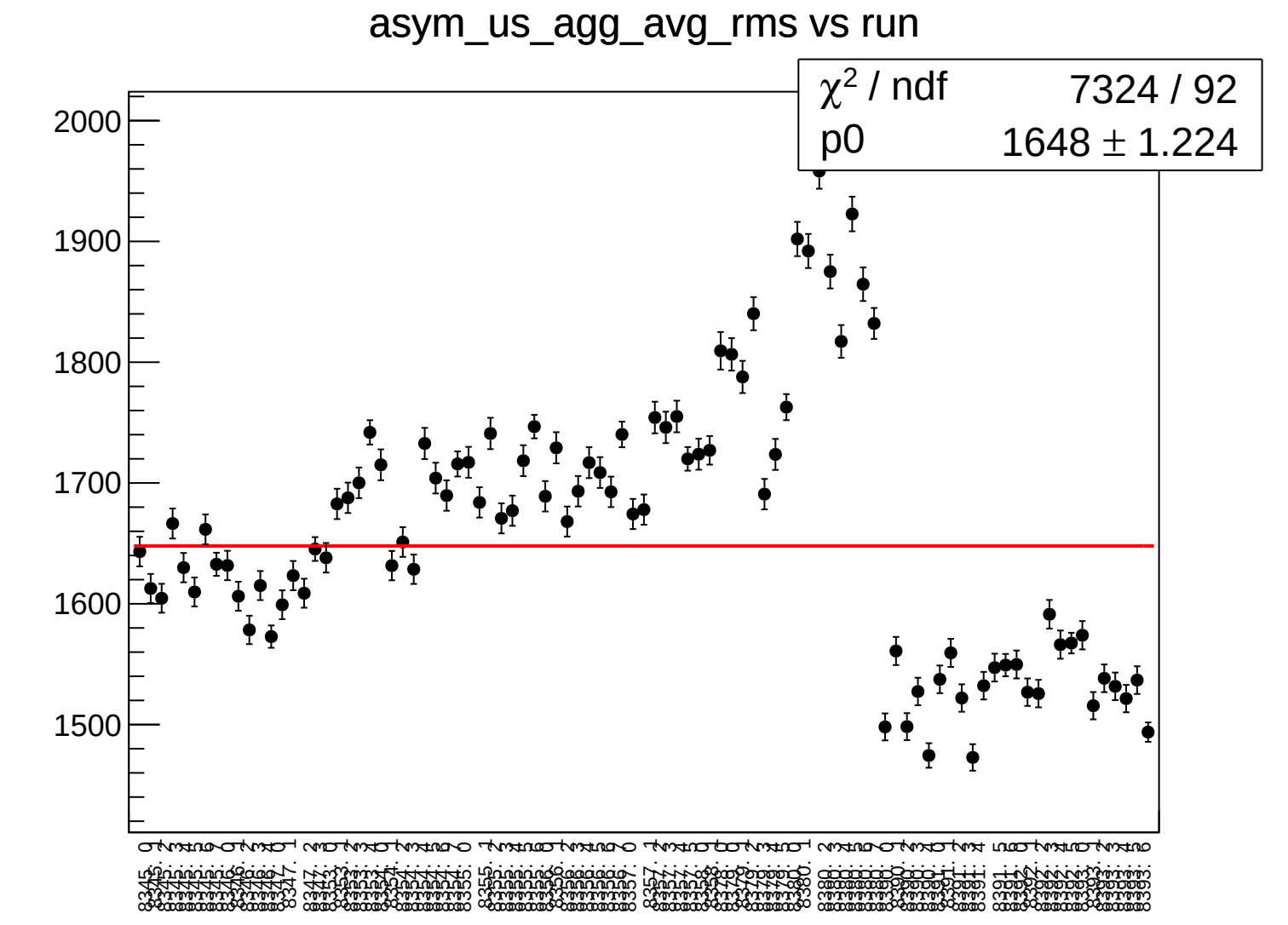

asym_dsr_mean vs run
χ² / ndf 101.1 / 92
p0 372.3 ± 403.7
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean 13.12
Std Dev 72.38
3
2
1
0
−1
−2

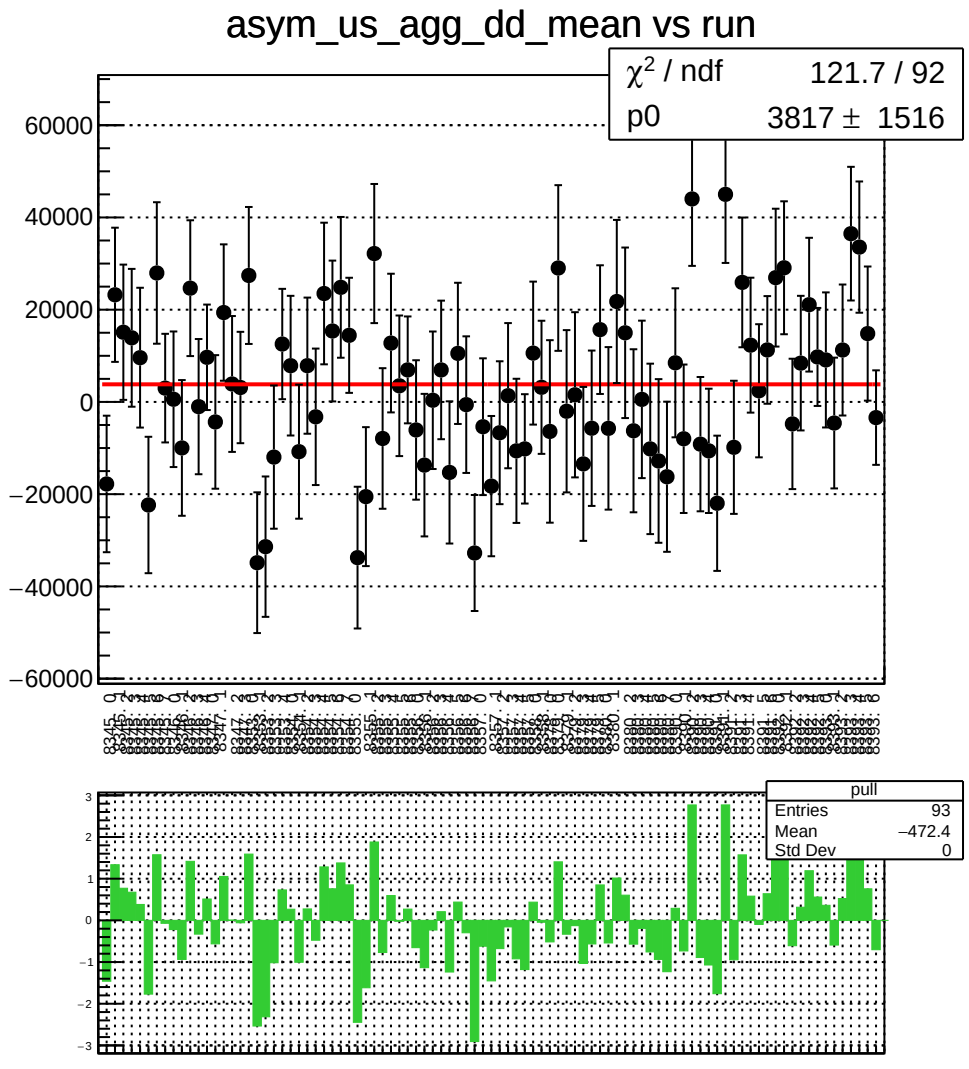

pull1D
Entries 93
Mean −0.01319
Std Dev 1.043
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

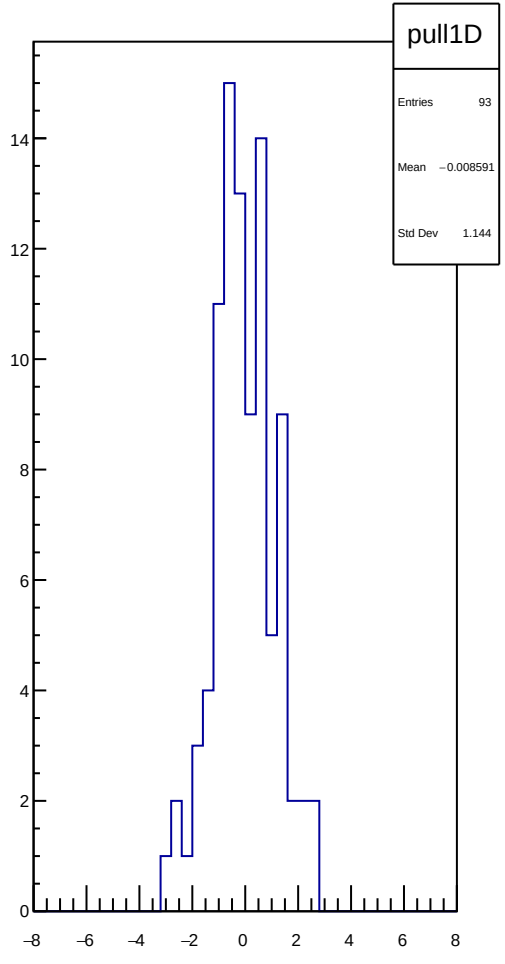

asym_dsr_rms vs run
χ^2 / ndf 214.5 / 92
p0 385 ± 0.2855
395
390
385
380
375
370

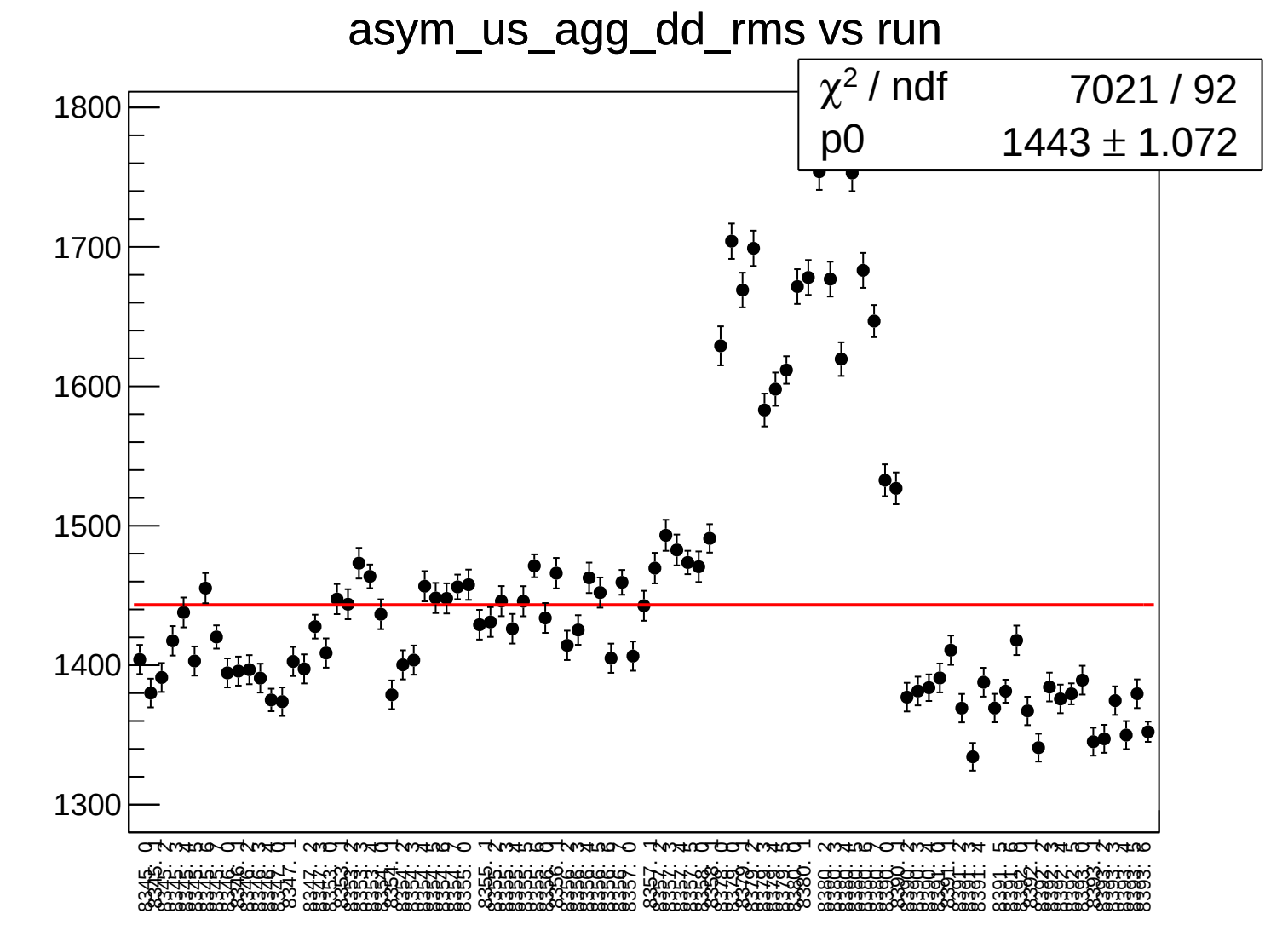

asym_us_agg_avg_mean vs run
χ² / ndf 99.46 / 92
p0 −157.6 ± 1731
pull
Entries 93
Mean −239.3
Std Dev 0

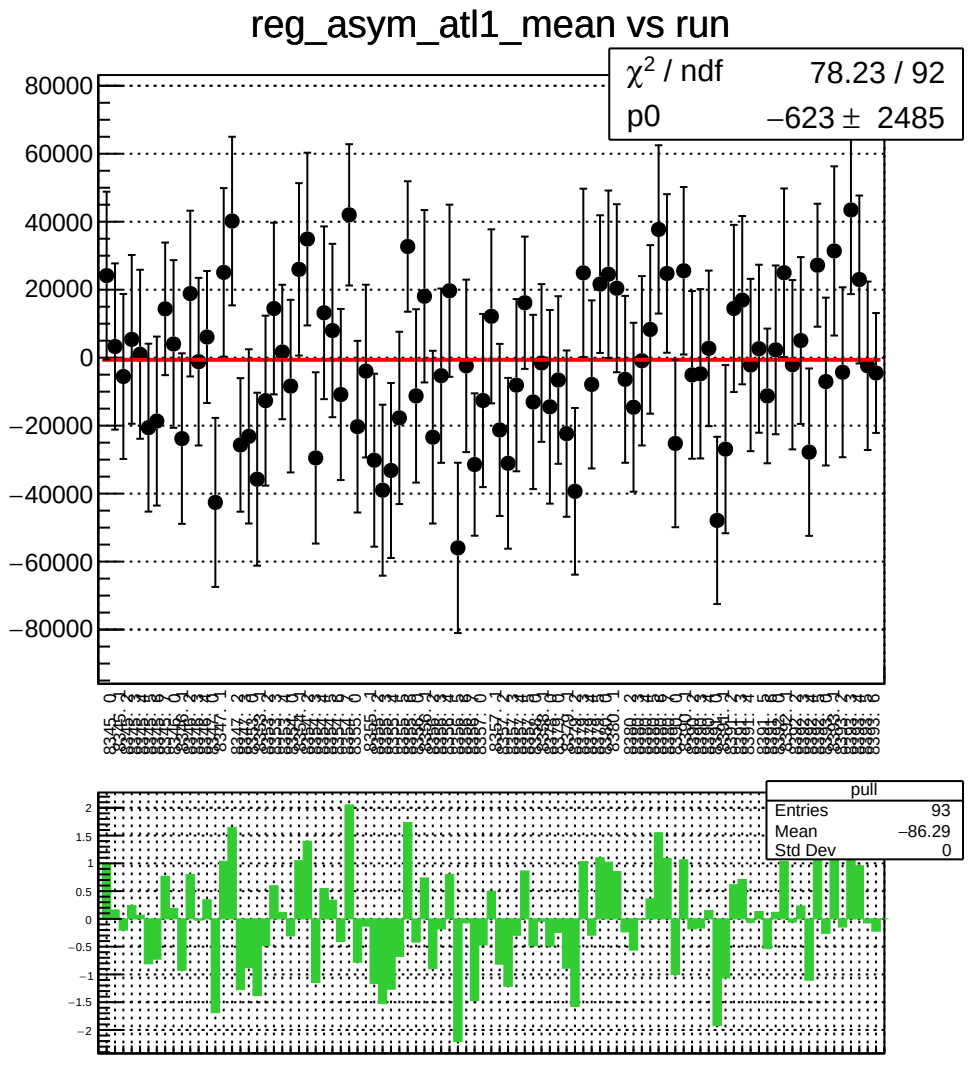

pull1D
Entries 93
Mean 0.01486
Std Dev 1.034

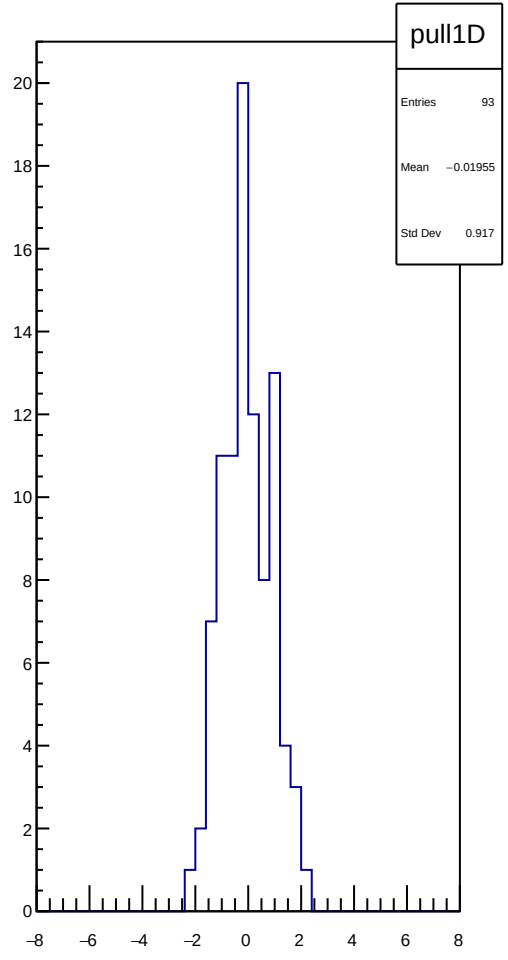

asym_us_agg_avg_rms vs run
χ² / ndf 7324 / 92
p0 1648 ± 1.224
2000
1900
1800
1700
1600
1500

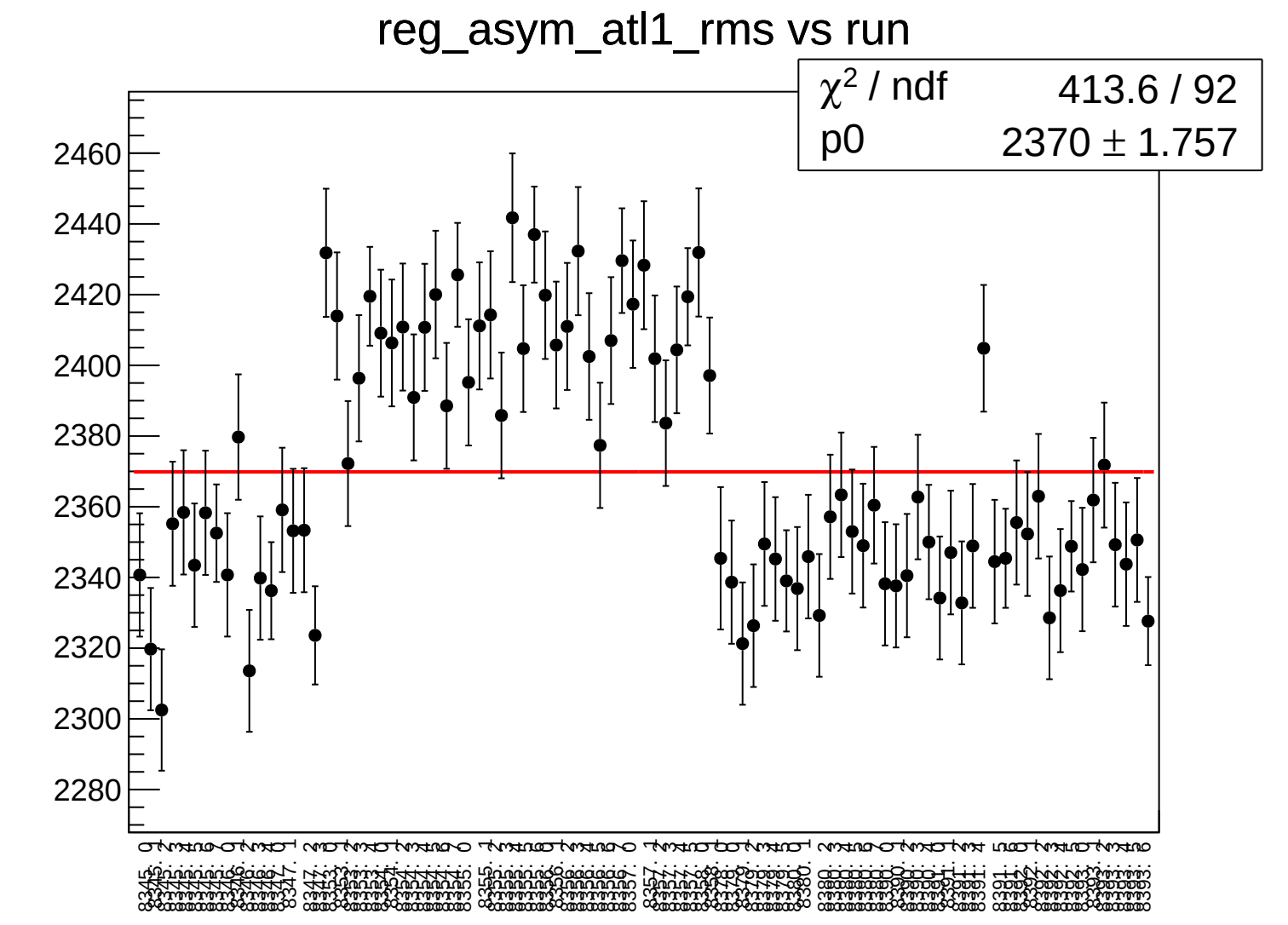

asym_us_agg_dd_mean vs run
χ² / ndf 121.7 / 92
p0 3817 ± 1516
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −472.4
Std Dev 0
3
2
1
0
−1
−2
−3

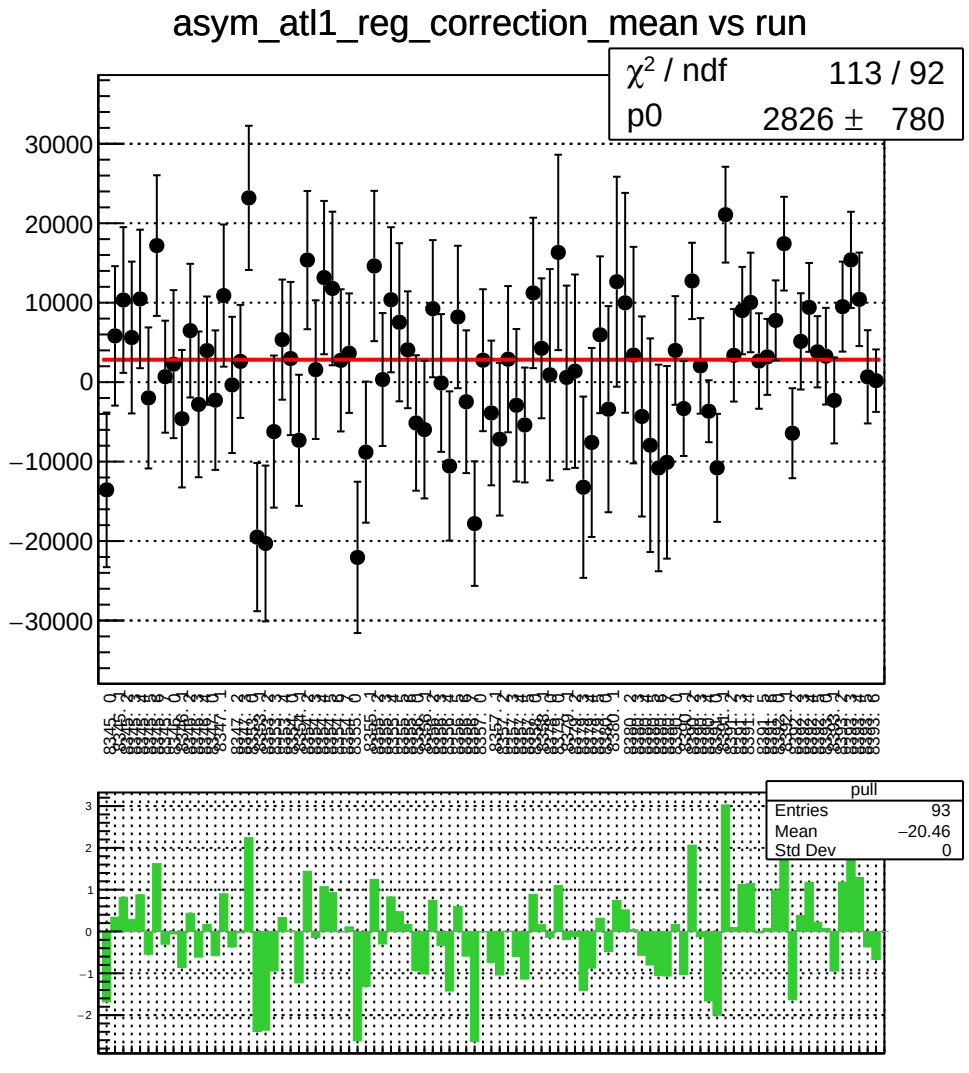

pull1D
Entries 93
Mean −0.008591
Std Dev 1.144
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

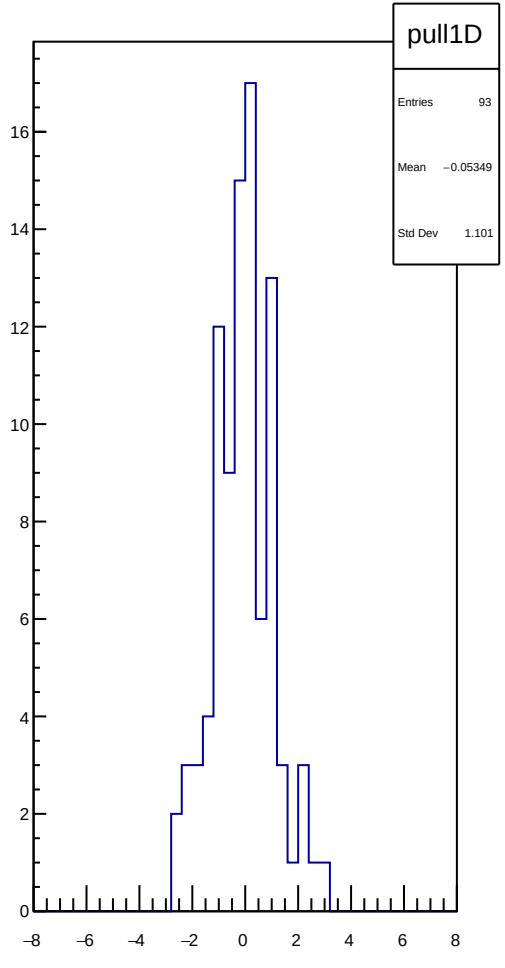

asym_us_agg_dd_rms vs run
χ² / ndf 7021 / 92
p0 1443 ± 1.072
1800
1700
1600
1500
1400
1300

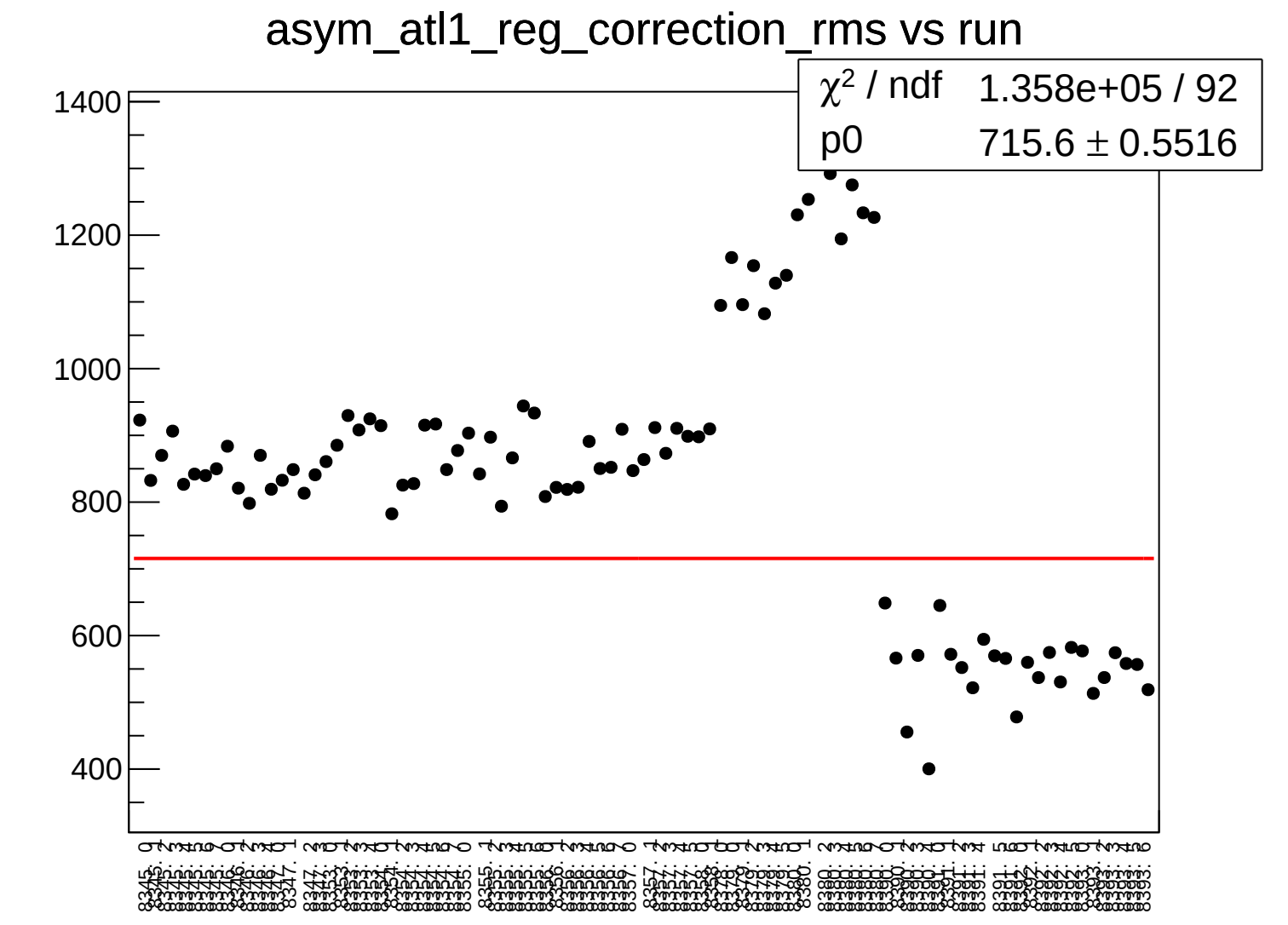

reg_asym_atl1_mean vs run
χ² / ndf 78.23 / 92
p0 −623 ± 2485
pull
Entries 93
Mean −86.29
Std Dev 0

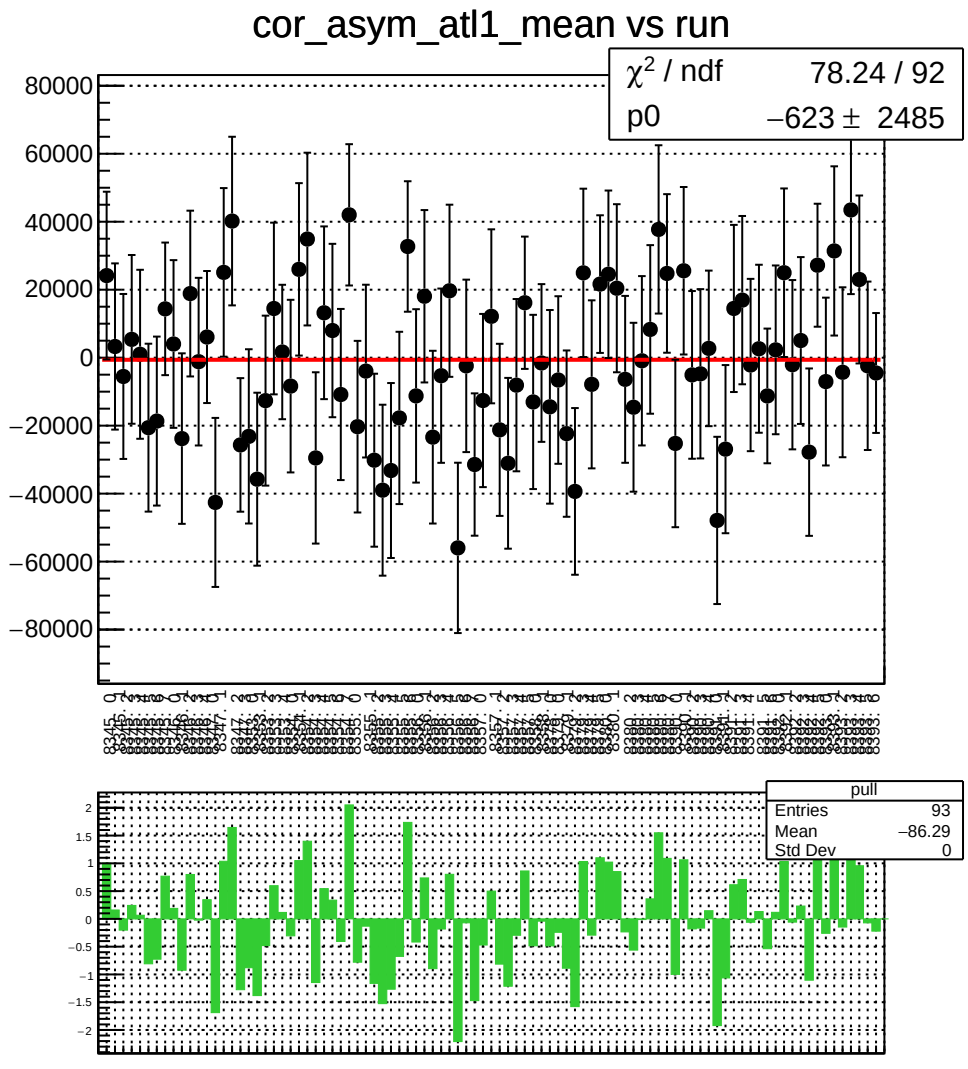

pull1D
Entries 93
Mean −0.01955
Std Dev 0.917

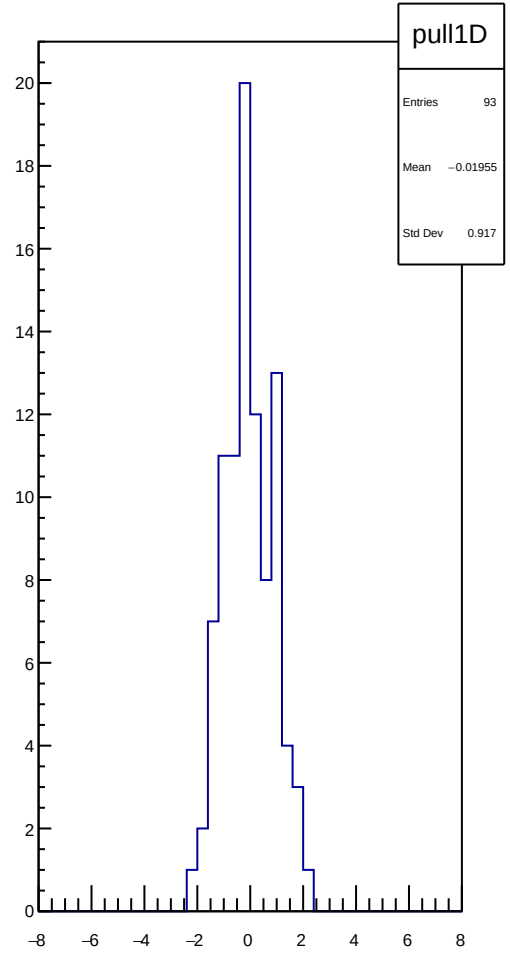

reg_asym_atl1_rms vs run
χ^2 / ndf 413.6 / 92
p0 2370 ± 1.757
2460
2440
2420
2400
2380
2360
2340
2320
2300
2280

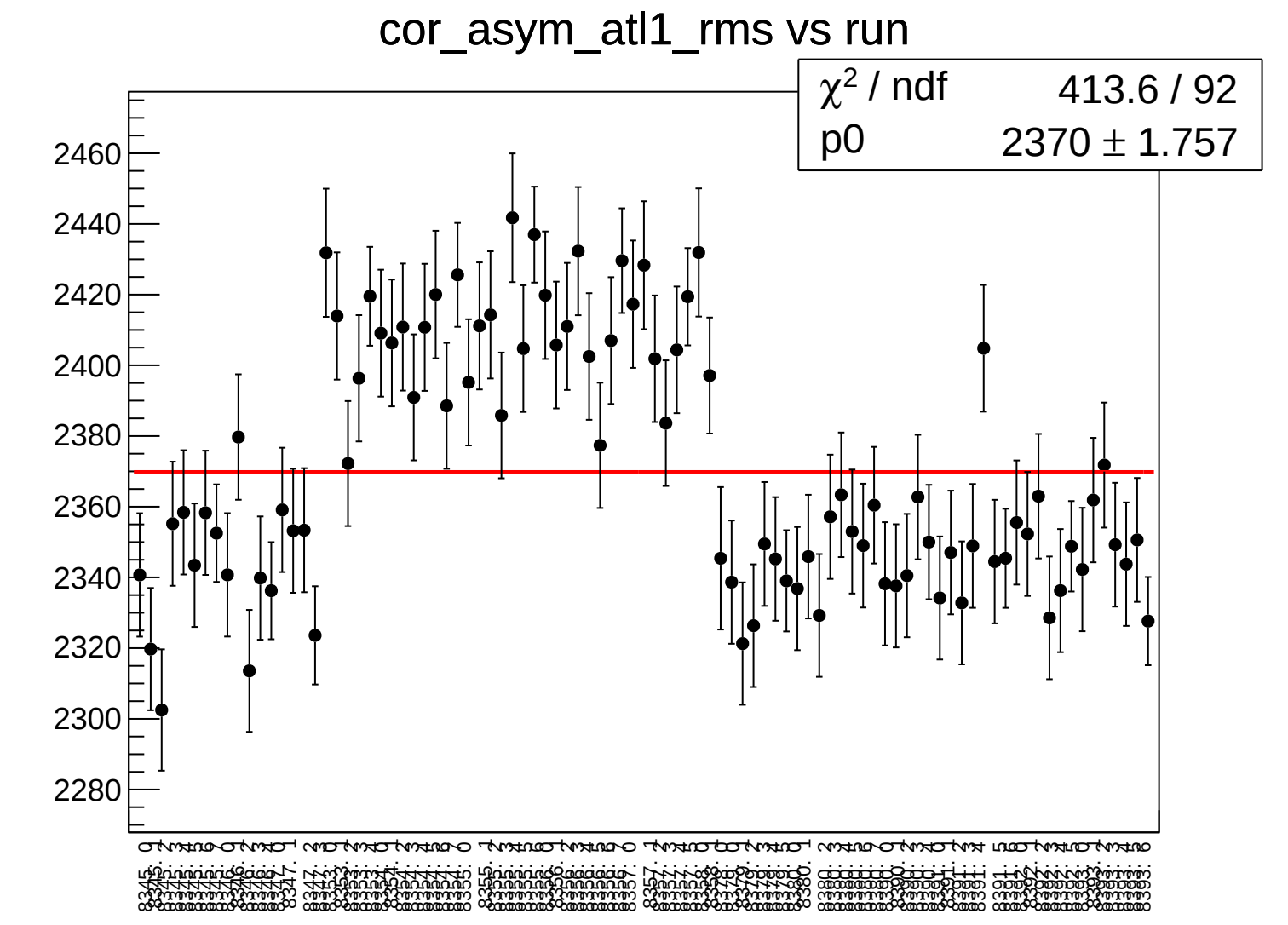

asym_atl1_reg_correction_mean vs run
χ² / ndf 113 / 92
p0 2826 ± 780
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −20.46
Std Dev 0
3
2
1
0
−1
−2

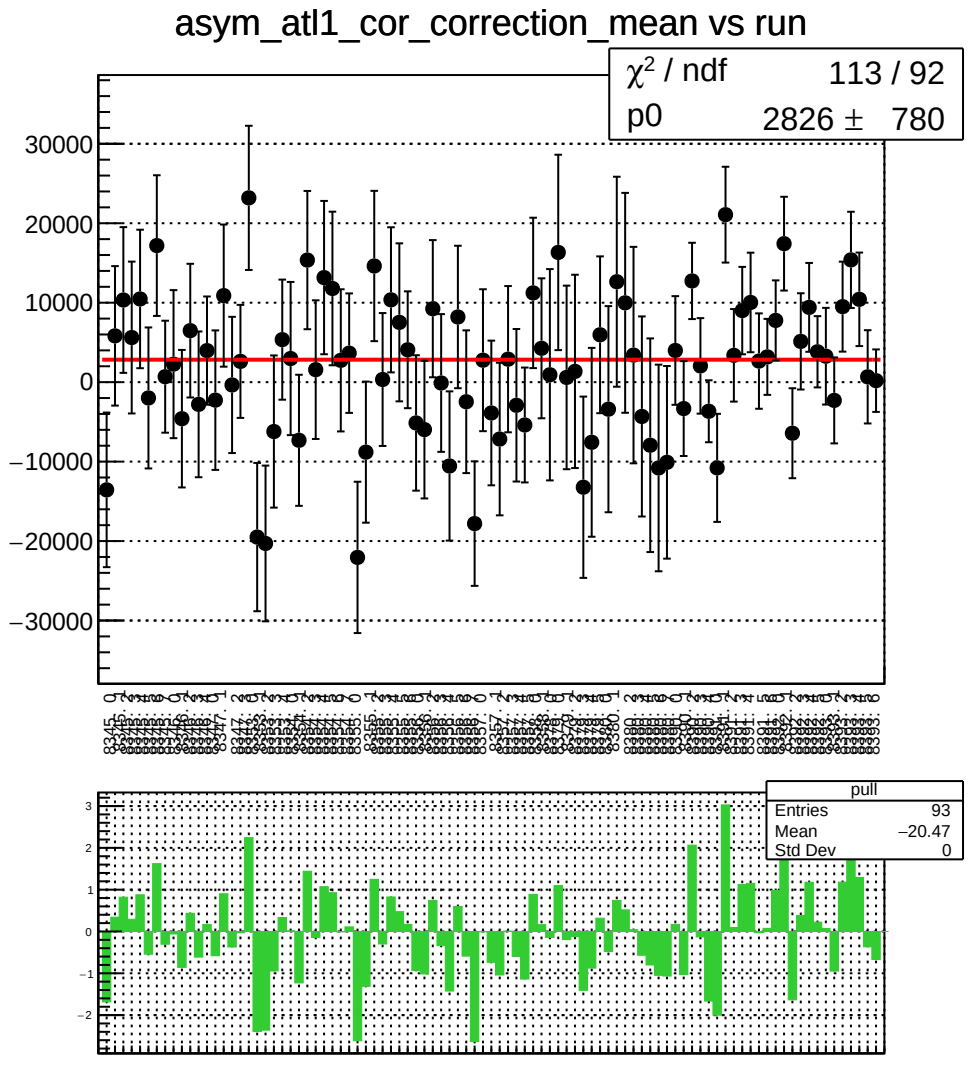

pull1D
Entries 93
Mean −0.05349
Std Dev 1.101
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

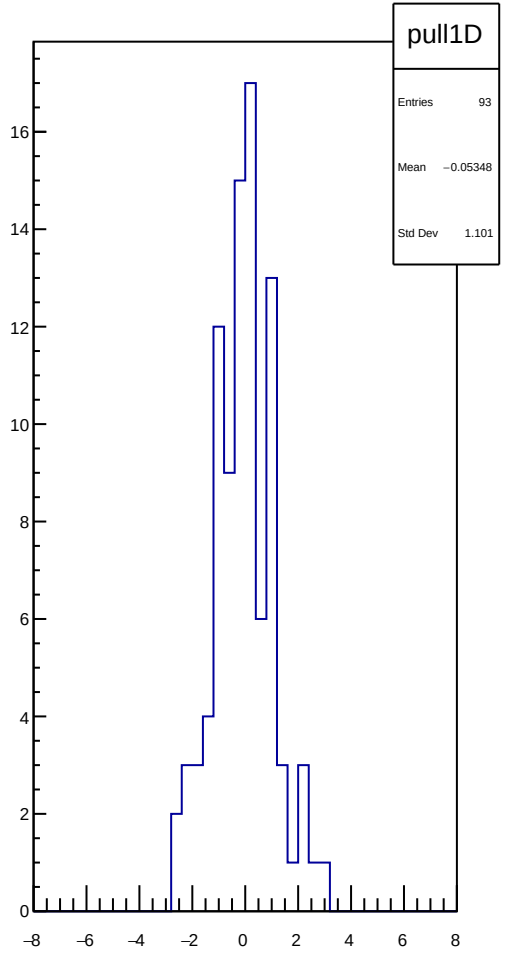

asym_atl1_reg_correction_rms vs run
χ² / ndf 1.358e+05 / 92
p0 715.6 ± 0.5516
1400
1200
1000
800
600
400

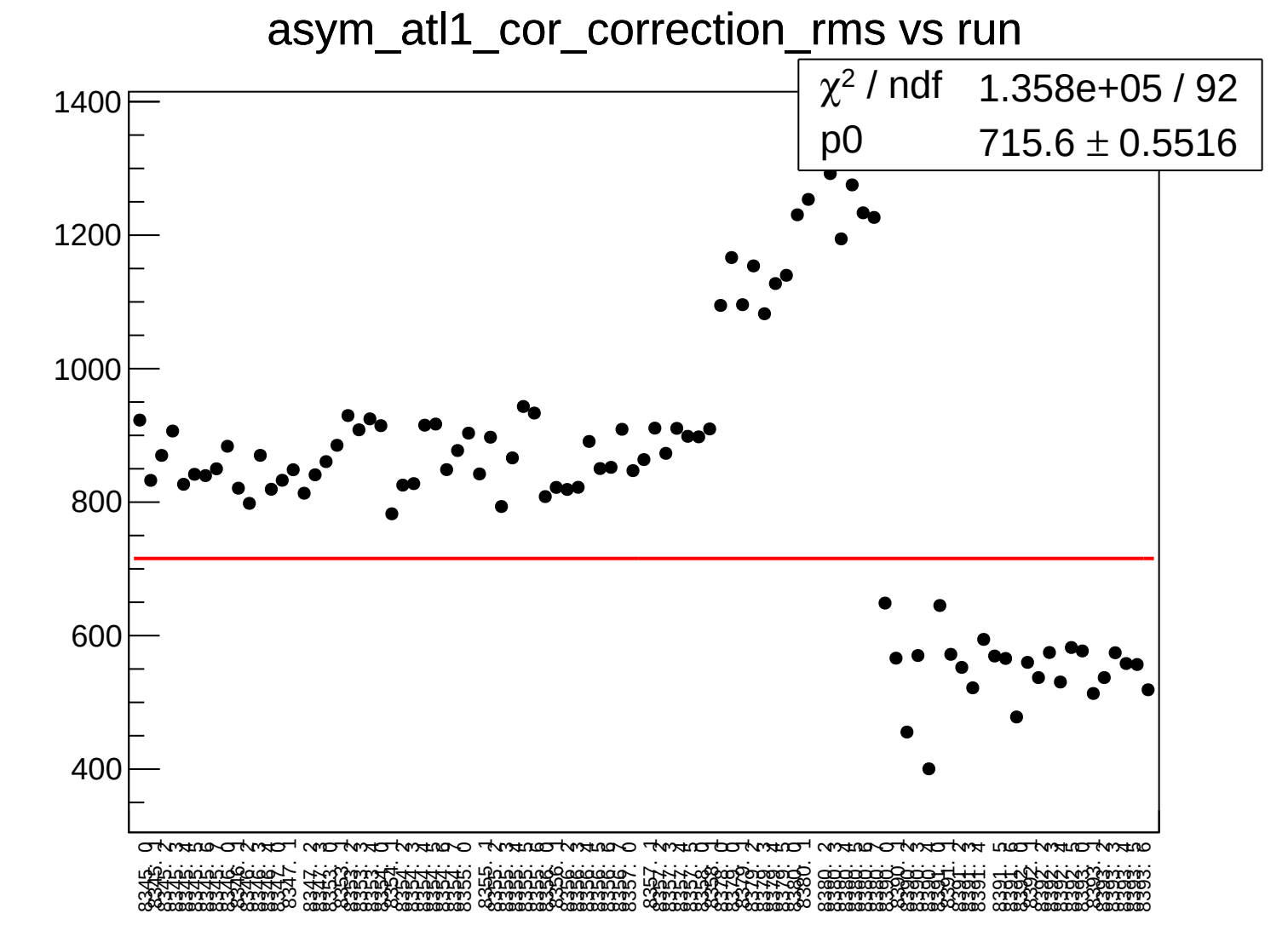

cor_asym_atl1_mean vs run
χ² / ndf 78.24 / 92
p0 −623 ± 2485
pull
Entries 93
Mean −86.29
Std Dev 0

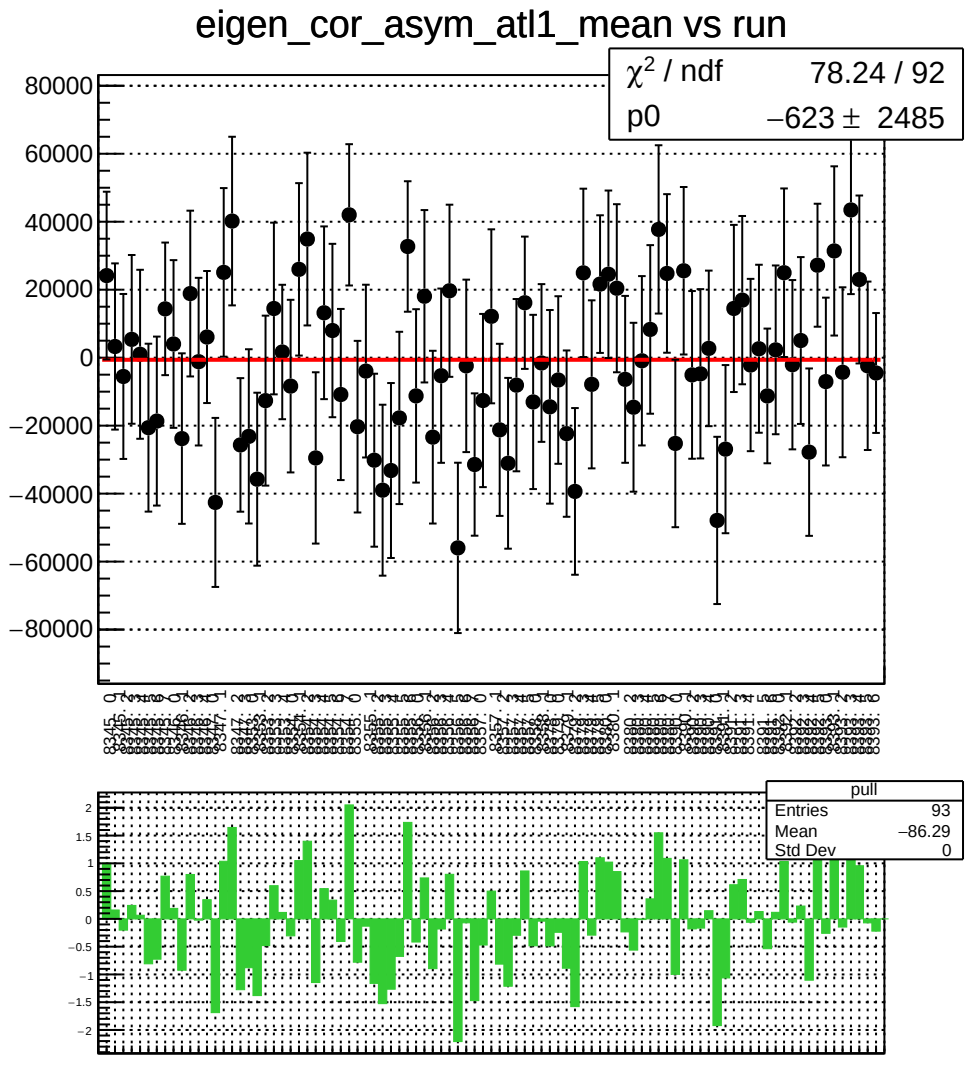

pull1D
Entries 93
Mean −0.01955
Std Dev 0.917

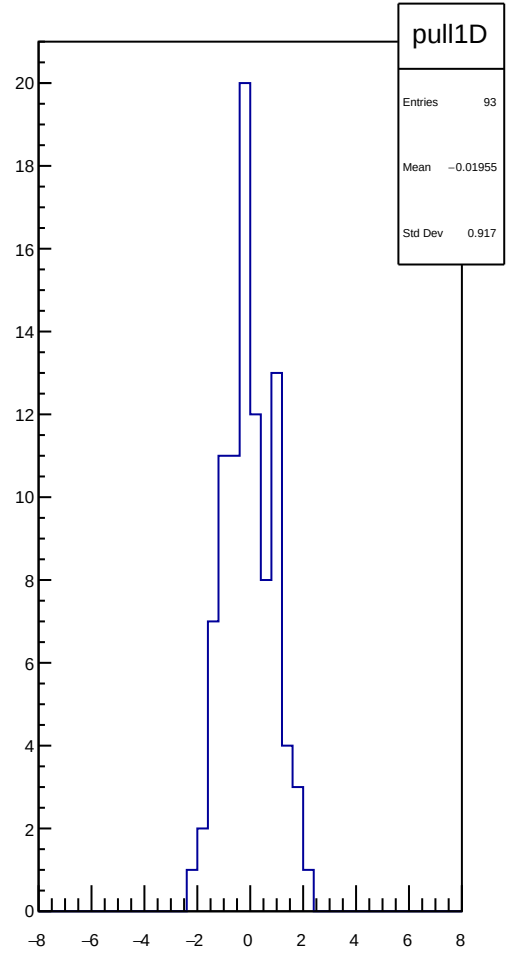

cor_asym_atl1_rms vs run
χ^2 / ndf 413.6 / 92
p0 2370 ± 1.757
2460
2440
2420
2400
2380
2360
2340
2320
2300
2280

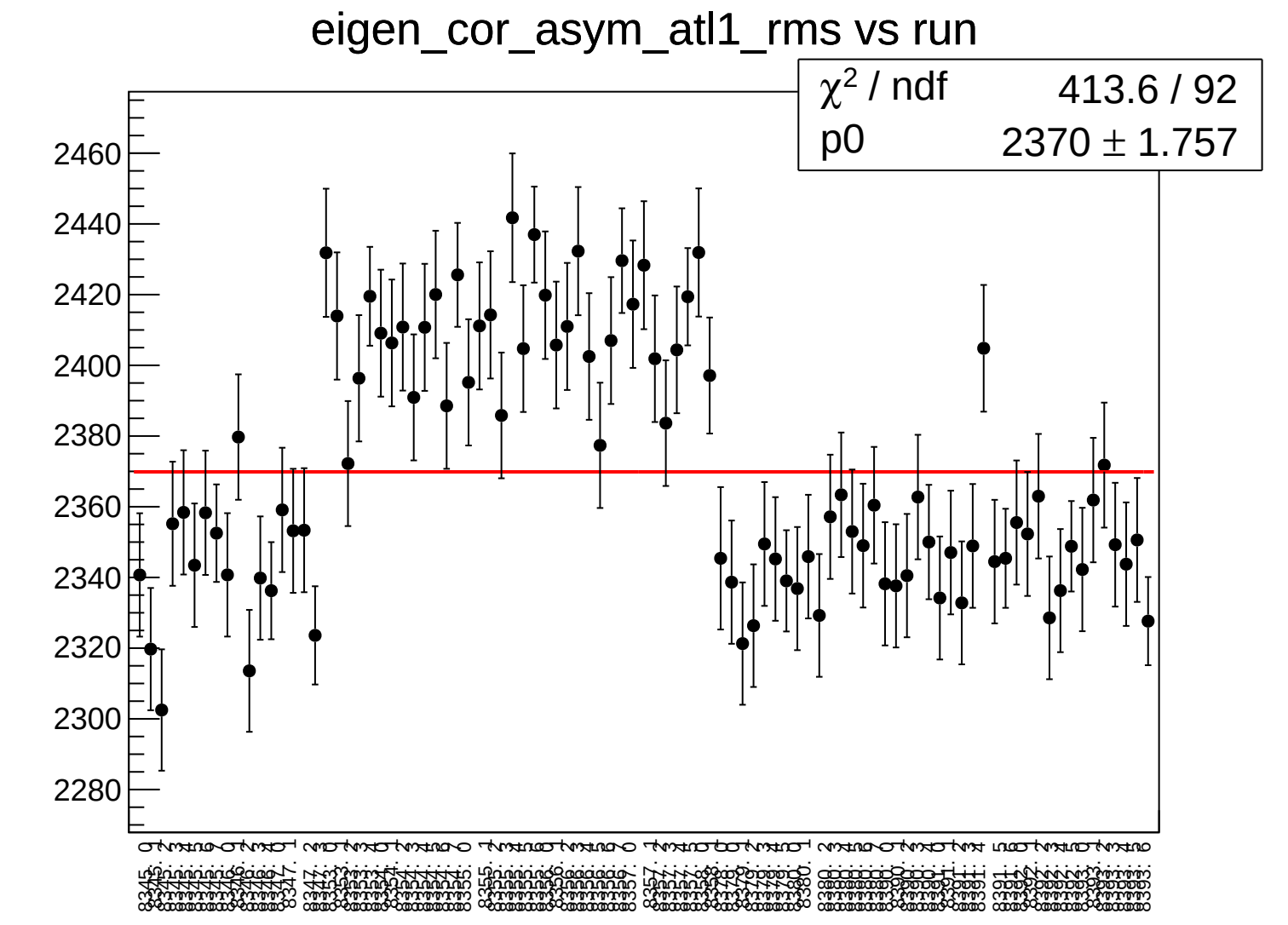

asym_atl1_cor_correction_mean vs run
χ² / ndf 113 / 92
p0 2826 ± 780
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −20.47
Std Dev 0
3
2
1
0
−1
−2

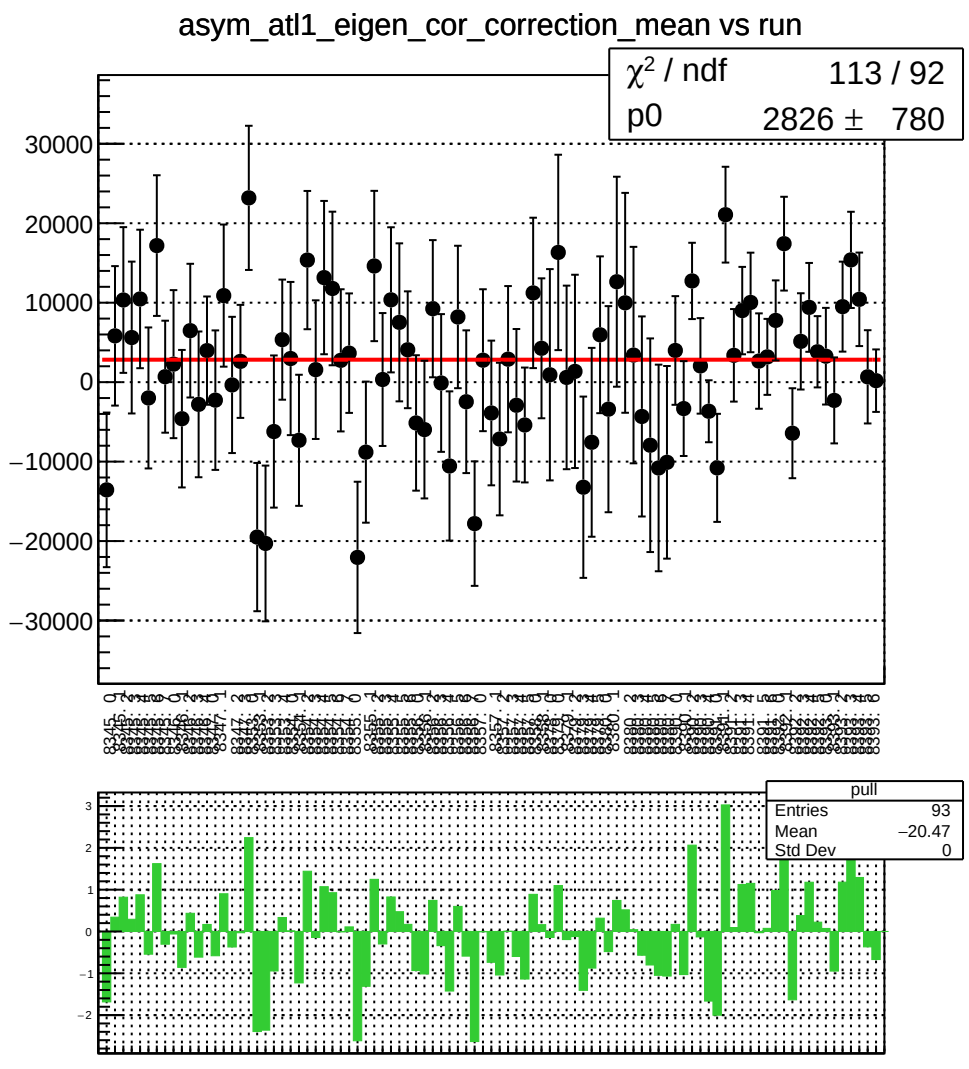

pull1D
Entries 93
Mean −0.05348
Std Dev 1.101
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

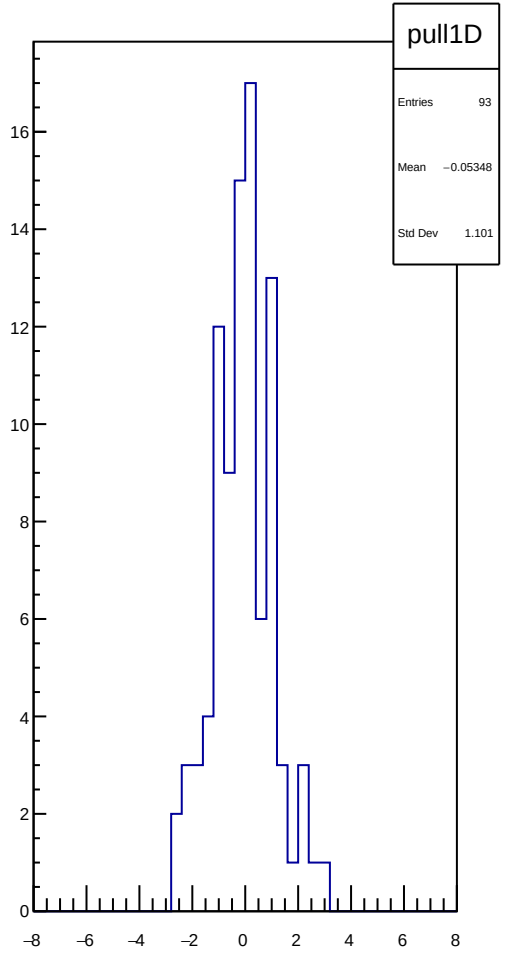

asym_atl1_cor_correction_rms vs run
χ² / ndf 1.358e+05 / 92
p0 715.6 ± 0.5516
1400
1200
1000
800
600
400

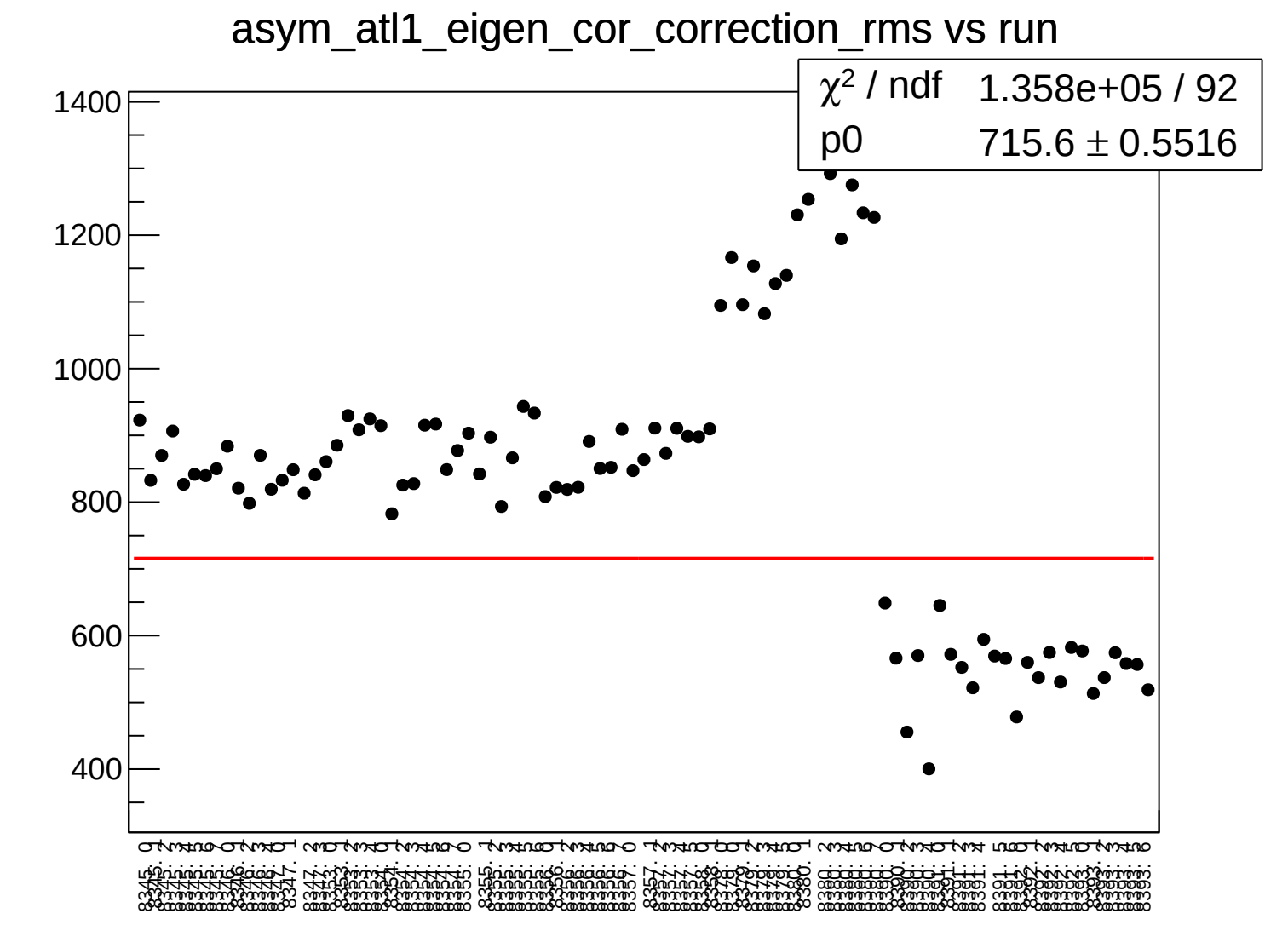

eigen_cor_asym_atl1_mean vs run
χ² / ndf 78.24 / 92
p0 −623 ± 2485
pull
Entries 93
Mean −86.29
Std Dev 0

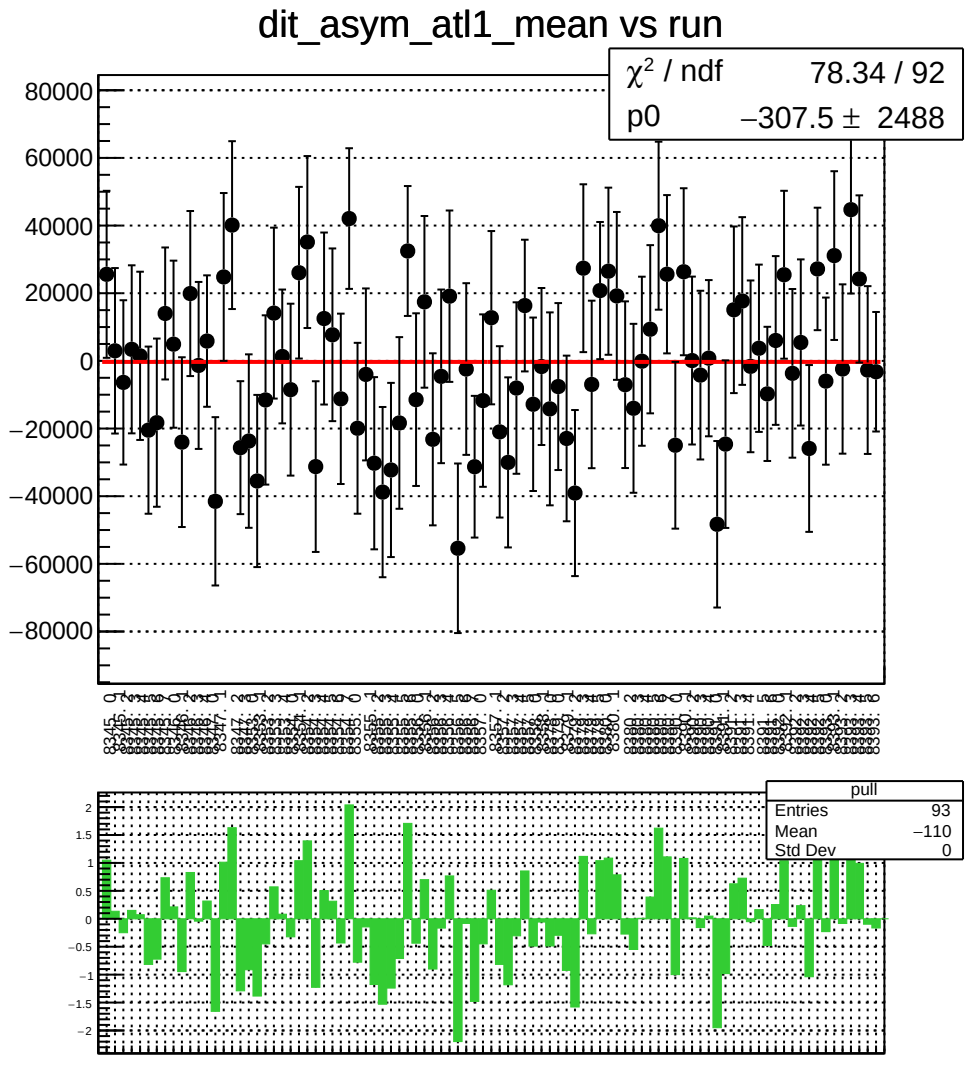

pull1D
Entries 93
Mean −0.01955
Std Dev 0.917

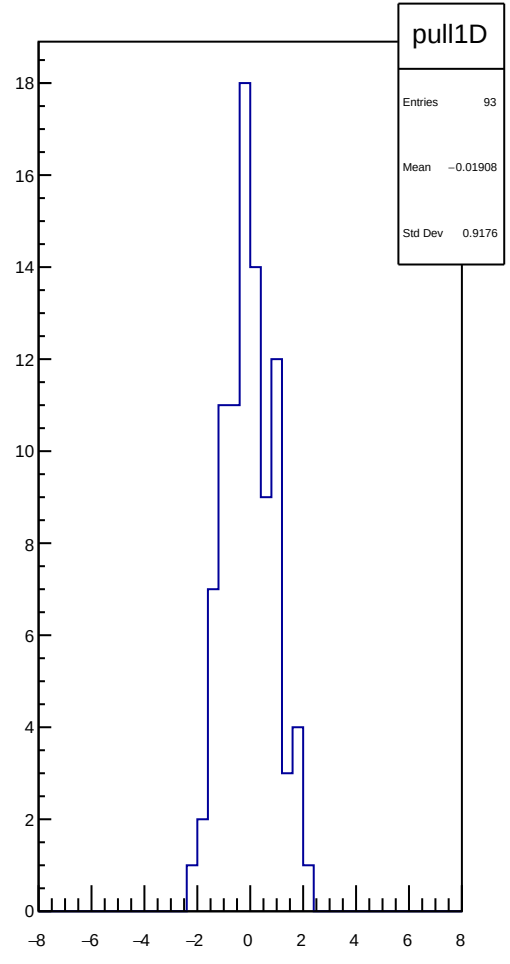

eigen_cor_asym_atl1_rms vs run
χ² / ndf 413.6 / 92
p0 2370 ± 1.757
2460
2440
2420
2400
2380
2360
2340
2320
2300
2280

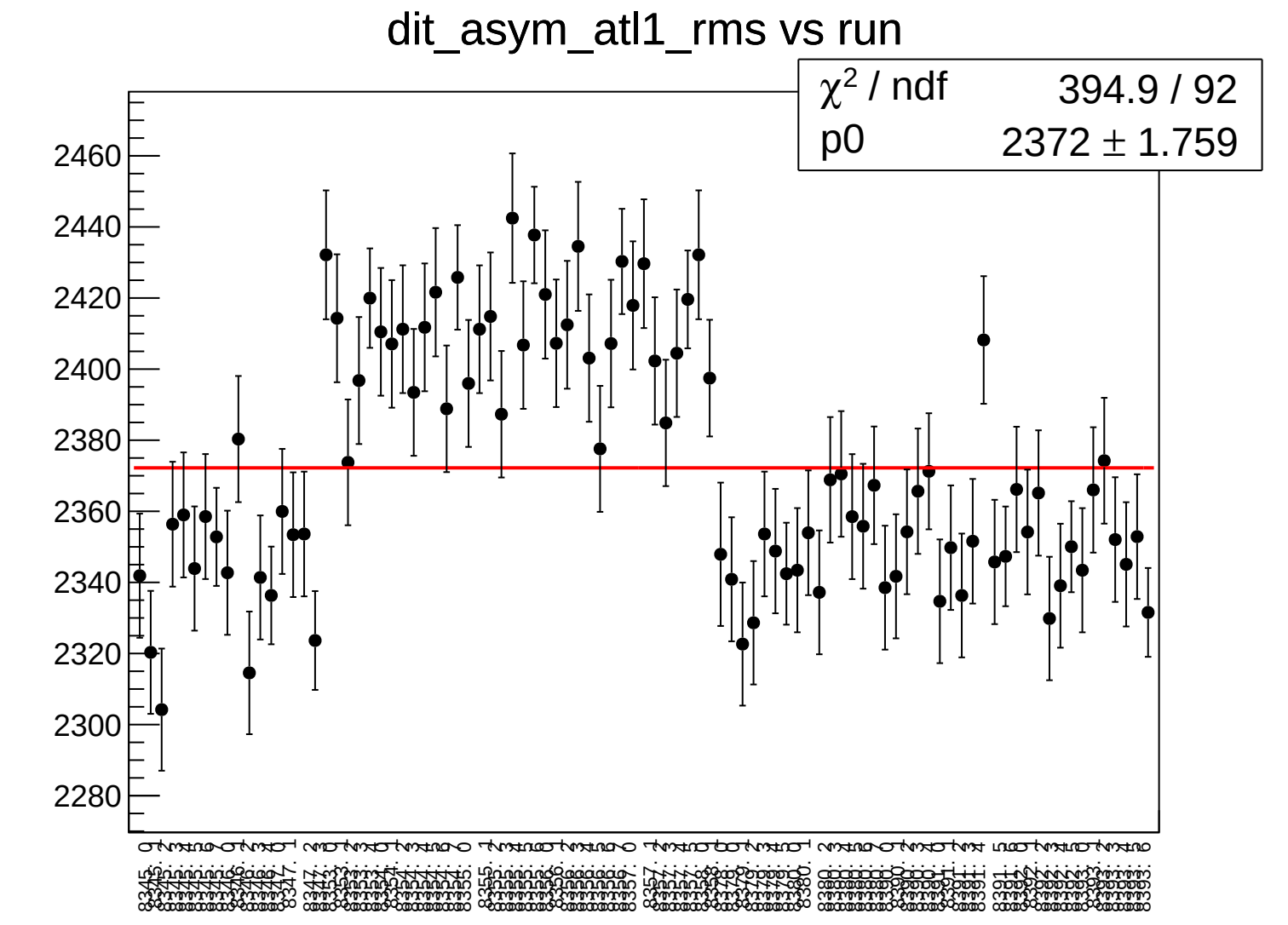

asym_atl1_eigen_cor_correction_mean vs run
χ² / ndf 113 / 92
p0 2826 ± 780
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −20.47
Std Dev 0
3
2
1
0
−1
−2

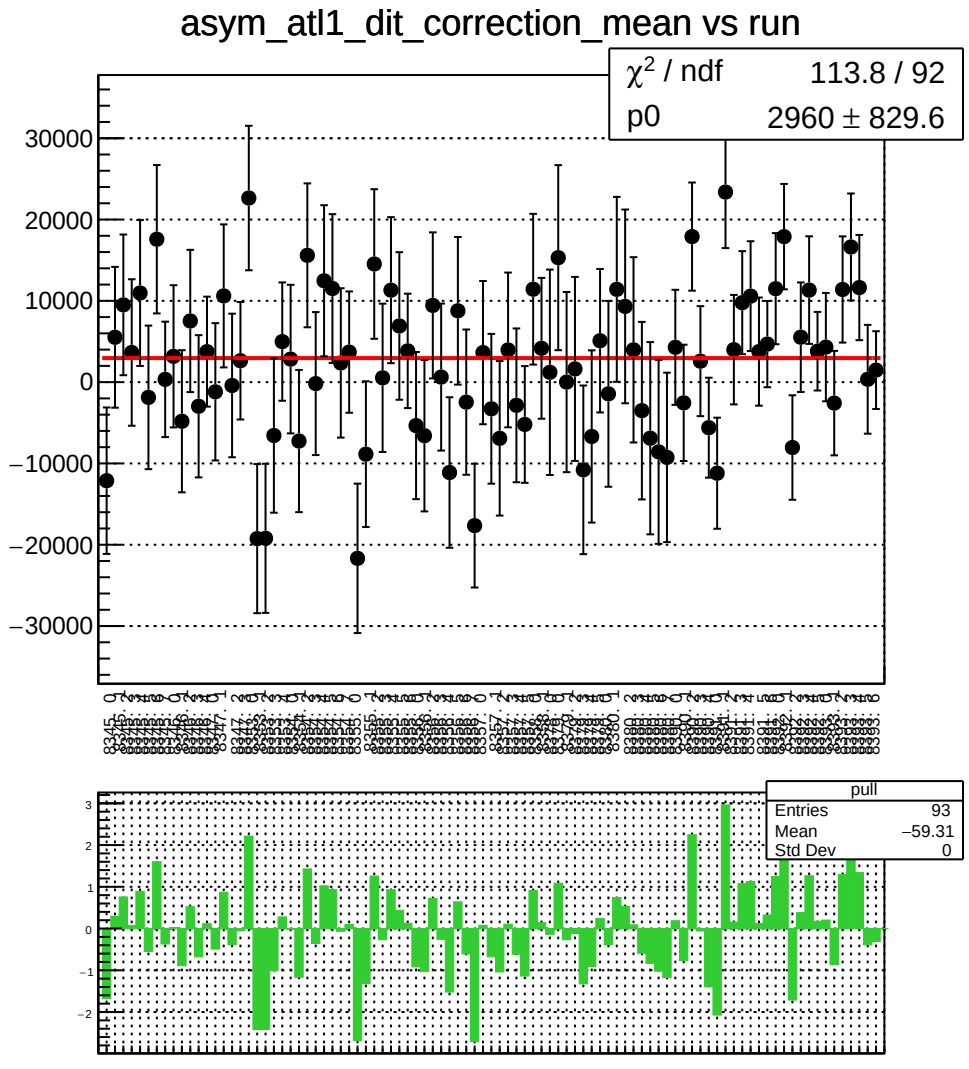

pull1D
Entries 93
Mean −0.05348
Std Dev 1.101
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

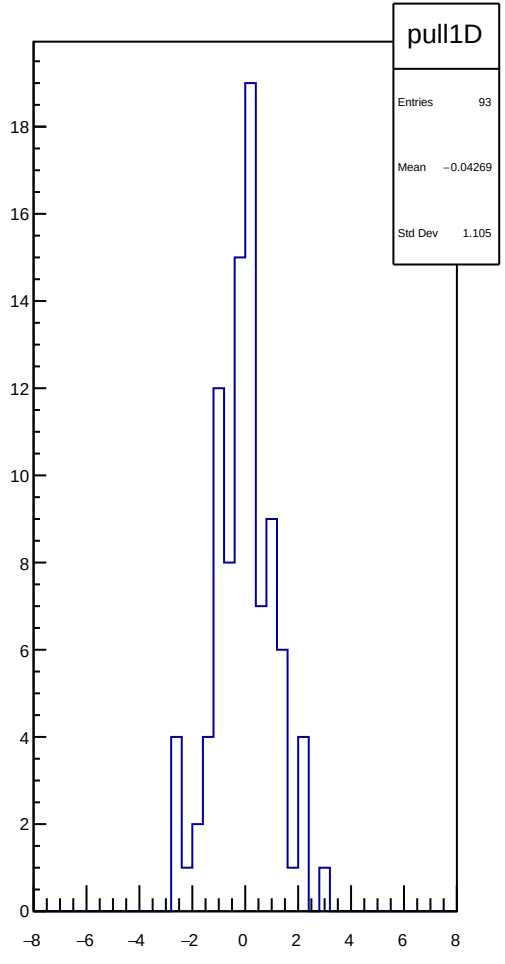

asym_atl1_eigen_cor_correction_rms vs run
χ² / ndf 1.358e+05 / 92
p0 715.6 ± 0.5516
1400
1200
1000
800
600
400

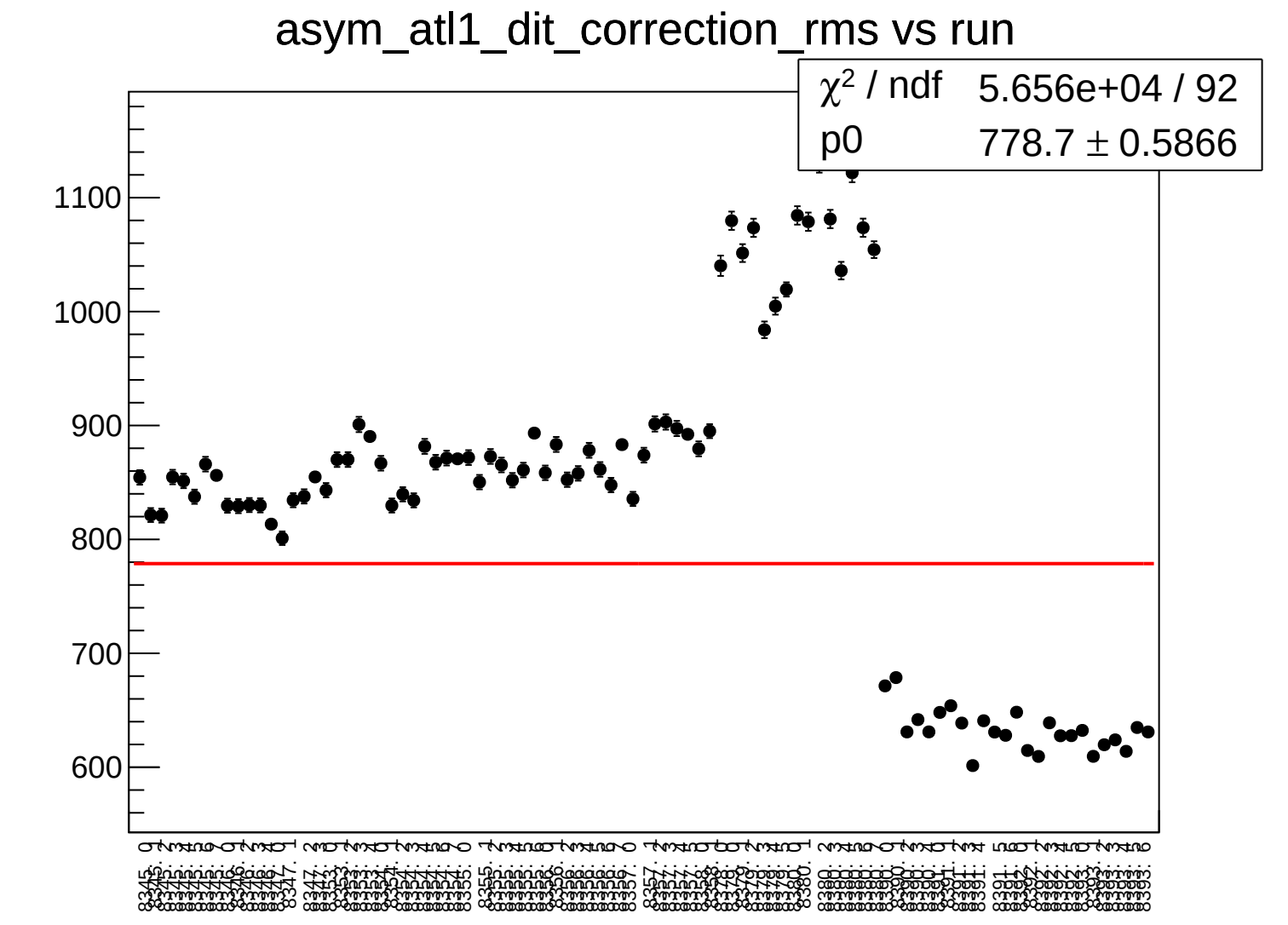

dit_asym_atl1_mean vs run
χ² / ndf 78.34 / 92
p0 −307.5 ± 2488
pull
Entries 93
Mean −110
Std Dev 0

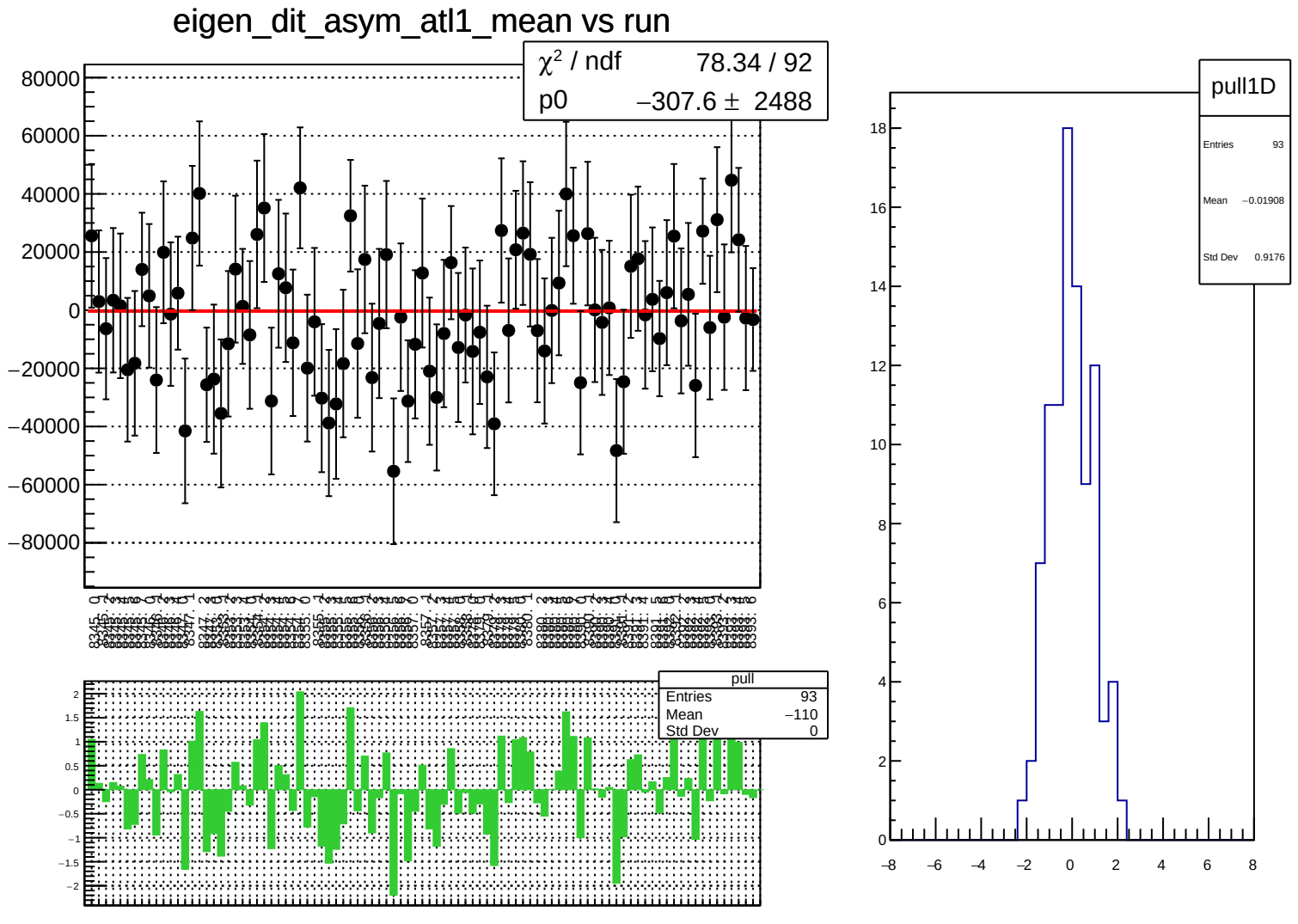

pull1D
Entries 93
Mean −0.01908
Std Dev 0.9176

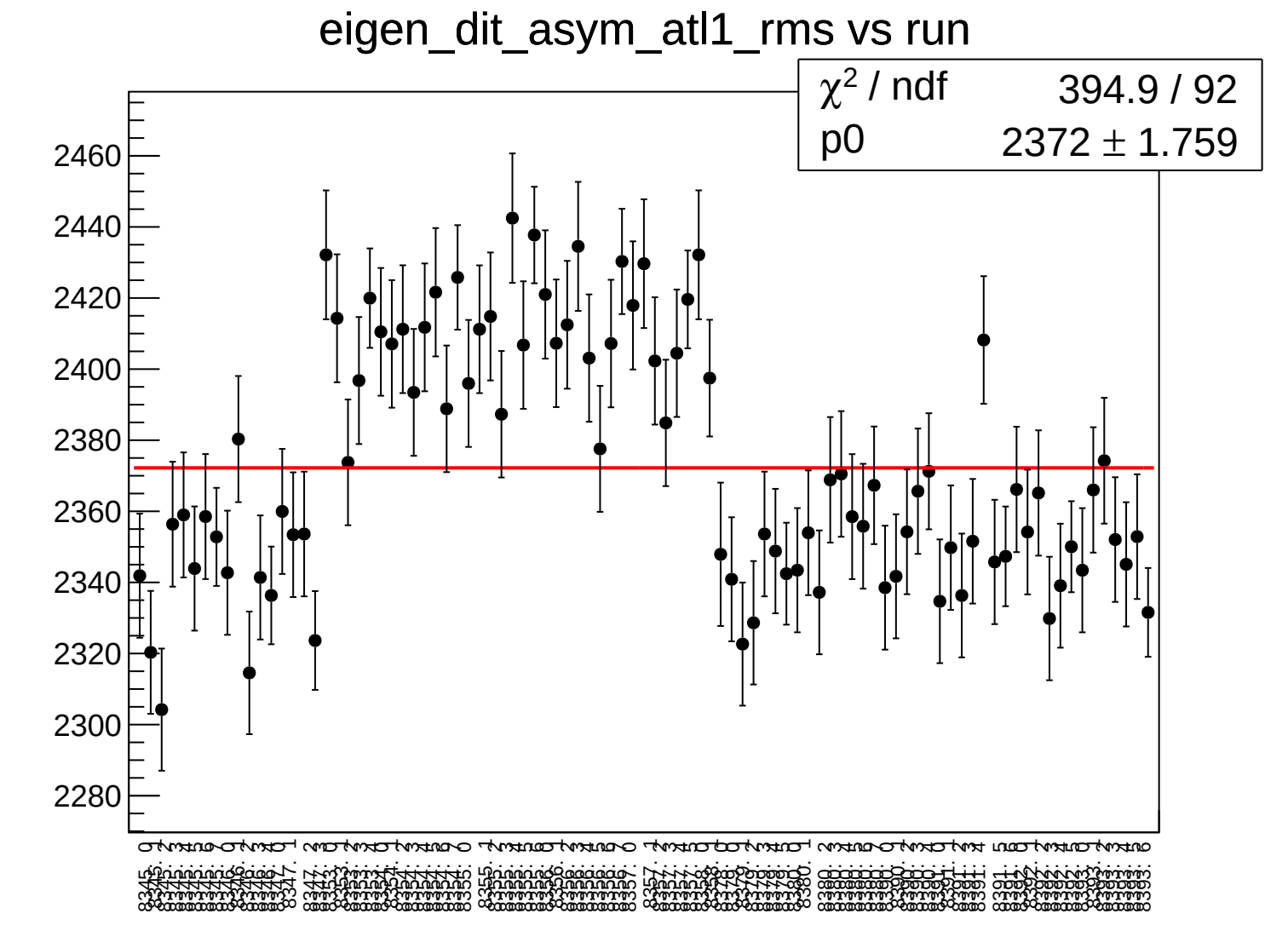

dit_asym_atl1_rms vs run
χ² / ndf 394.9 / 92
p0 2372 ± 1.759
2460
2440
2420
2400
2380
2360
2340
2320
2300
2280

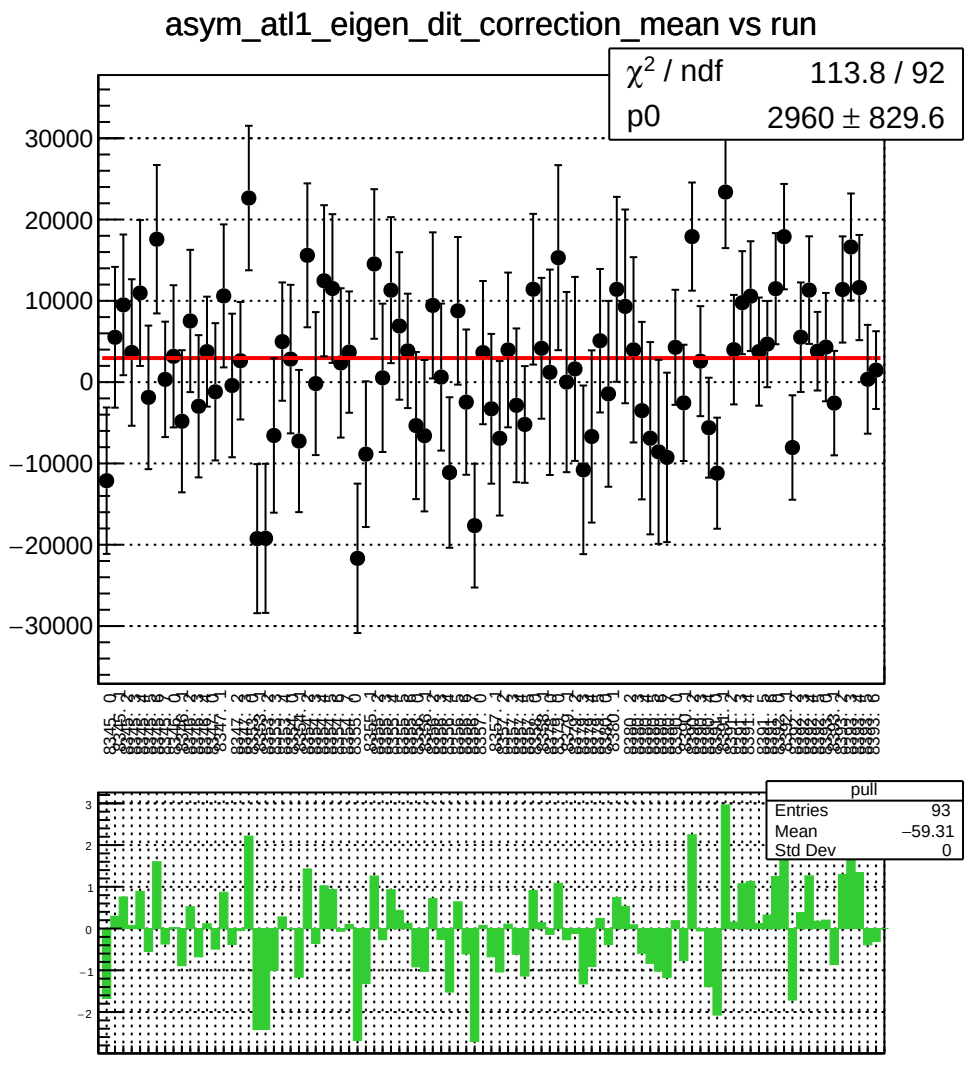

asym_atl1_dit_correction_mean vs run
χ² / ndf 113.8 / 92
p0 2960 ± 829.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −59.31
Std Dev 0
3
2
1
0
−1
−2

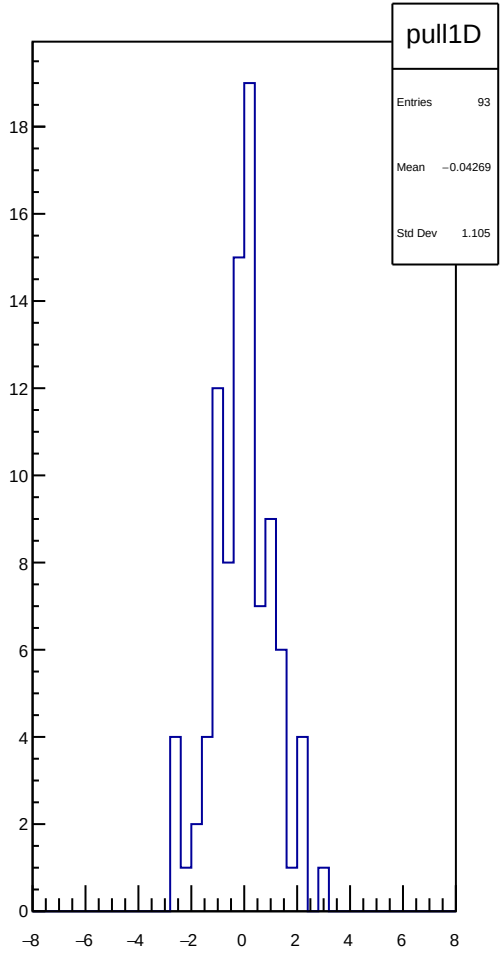

pull1D
Entries 93
Mean −0.04269
Std Dev 1.105
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

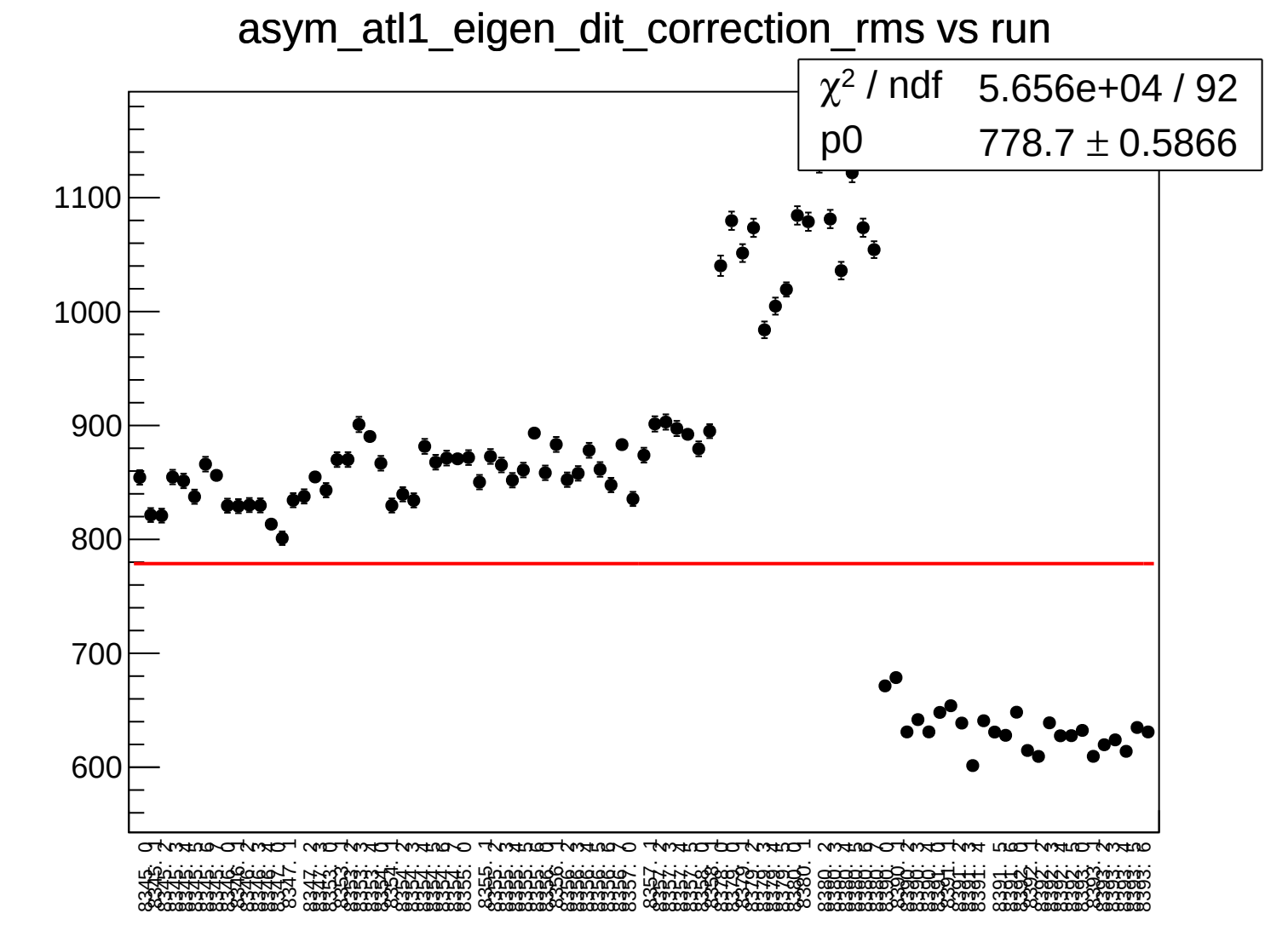

asym_atl1_dit_correction_rms vs run
χ² / ndf 5.656e+04 / 92
p0 778.7 ± 0.5866
1100
1000
900
800
700
600

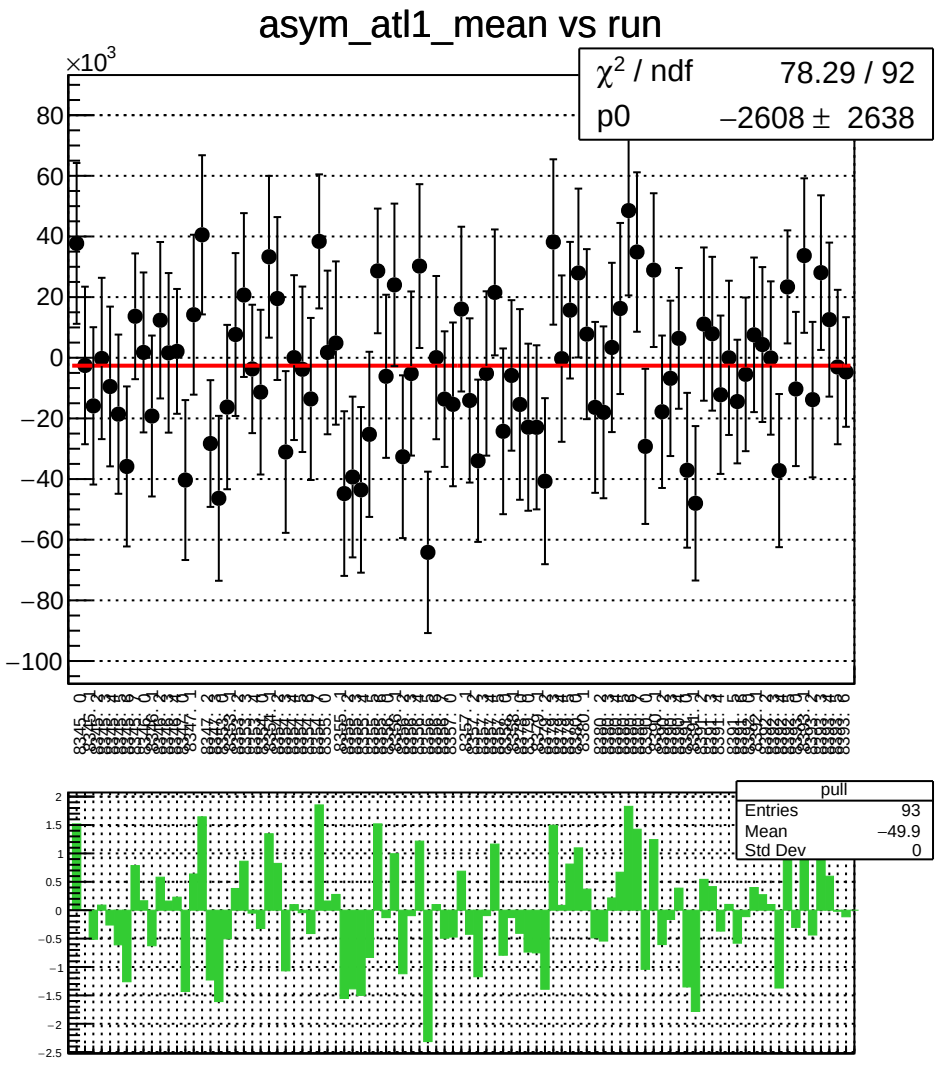

eigen_dit_asym_atl1_mean vs run
χ² / ndf 78.34 / 92
p0 −307.6 ± 2488
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean −110
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean −0.01908
Std Dev 0.9176
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

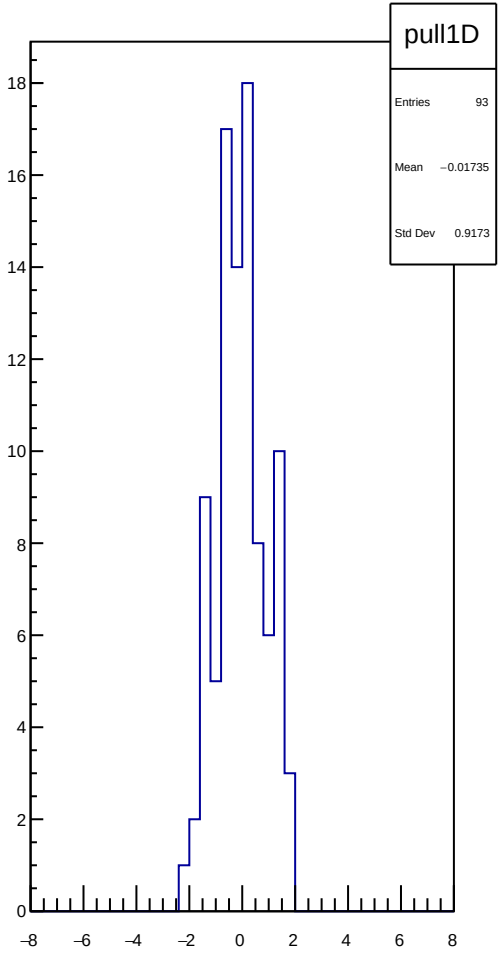

eigen_dit_asym_atl1_rms vs run
χ² / ndf 394.9 / 92
p0 2372 ± 1.759
2460
2440
2420
2400
2380
2360
2340
2320
2300
2280

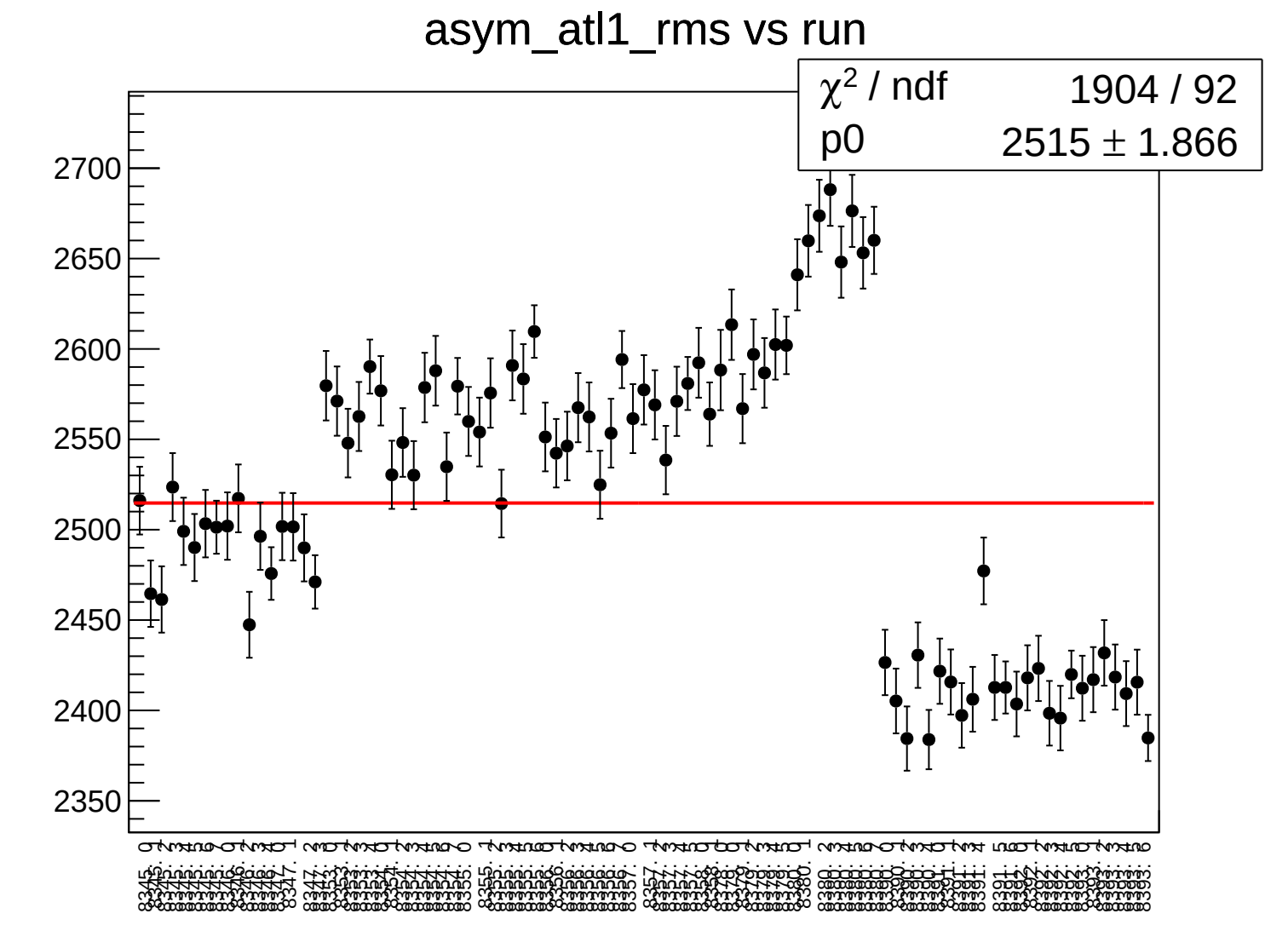

asym_atl1_eigen_dit_correction_mean vs run
χ² / ndf 113.8 / 92
p0 2960 ± 829.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −59.31
Std Dev 0
3
2
1
0
−1
−2

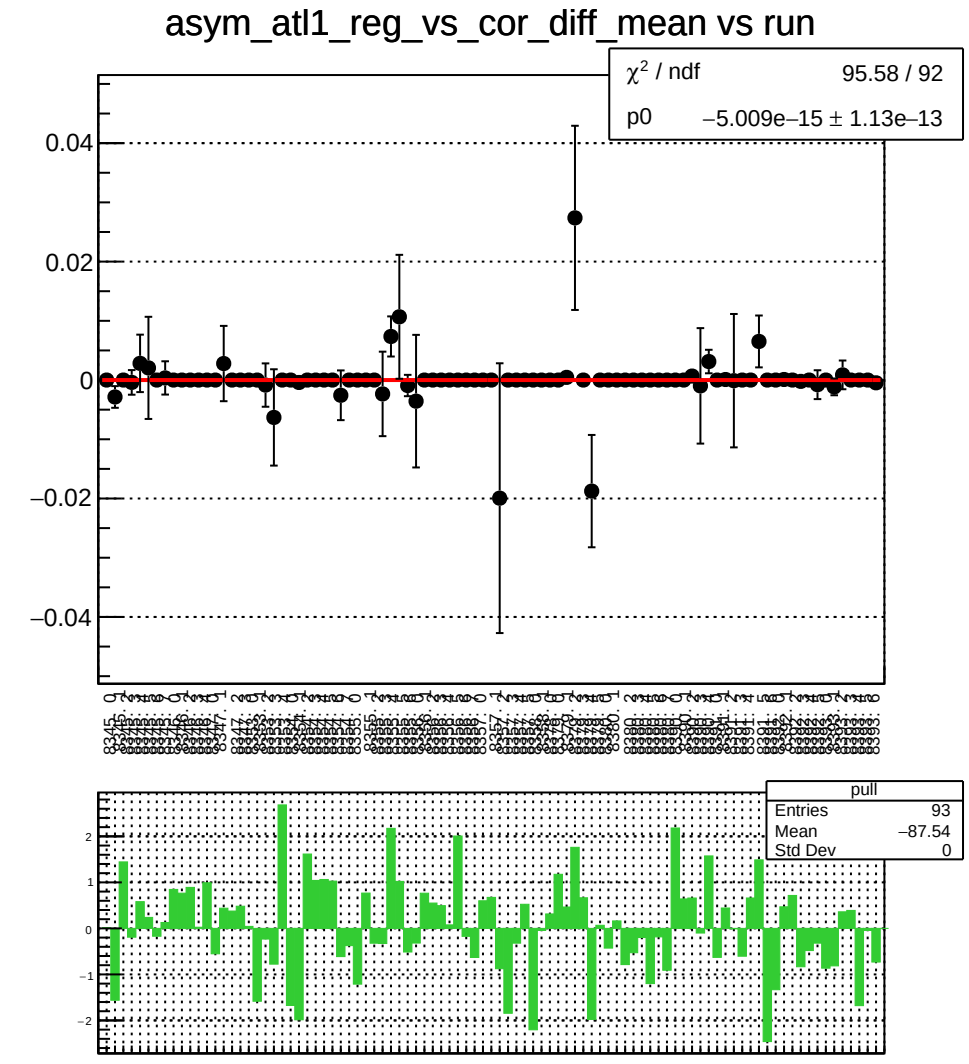

pull1D
Entries 93
Mean −0.04269
Std Dev 1.105
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

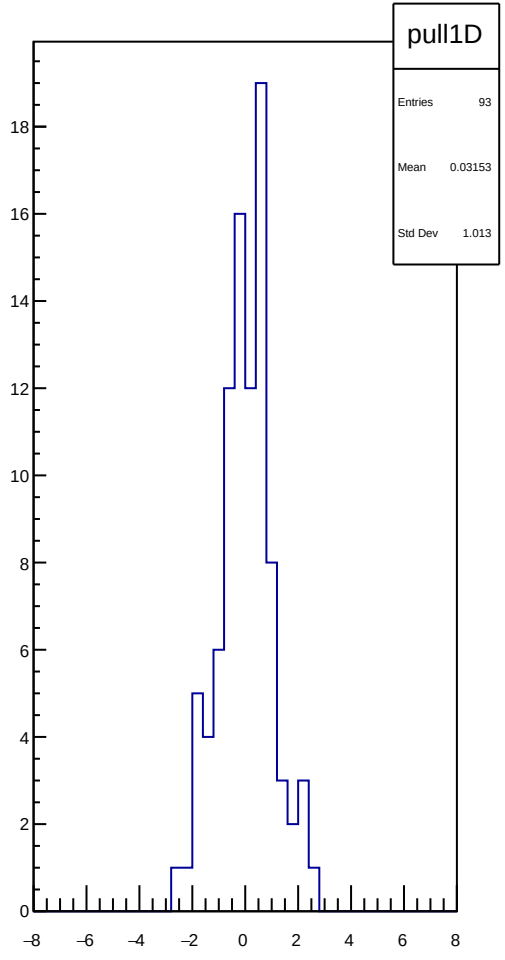

asym_atl1_eigen_dit_correction_rms vs run
χ² / ndf 5.656e+04 / 92
p0 778.7 ± 0.5866
1100
1000
900
800
700
600

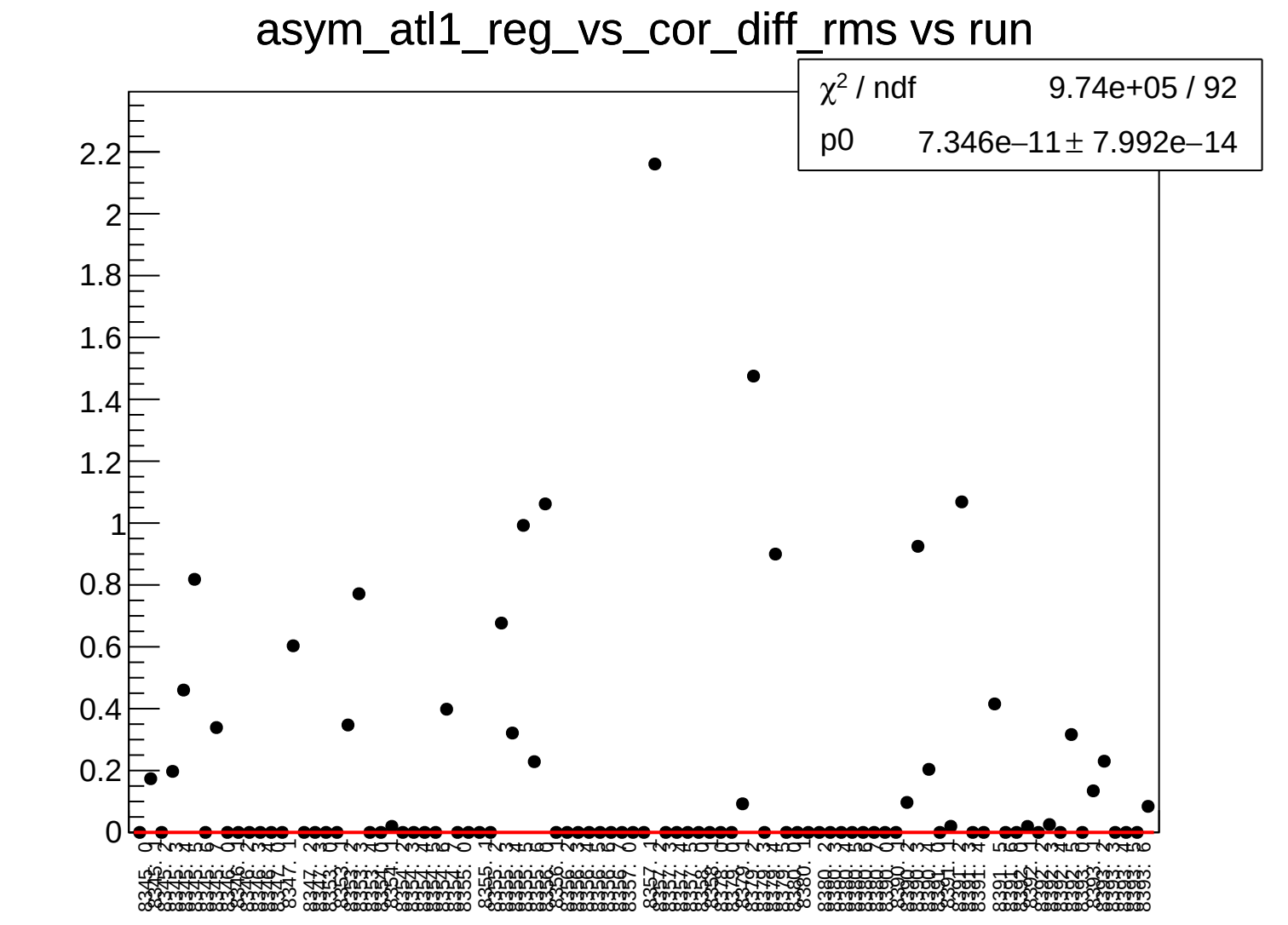

asym_atl1_mean vs run
χ^2 / ndf 78.29 / 92
p0 −2608 ± 2638
×10^3
pull
Entries 93
Mean −49.9
Std Dev 0

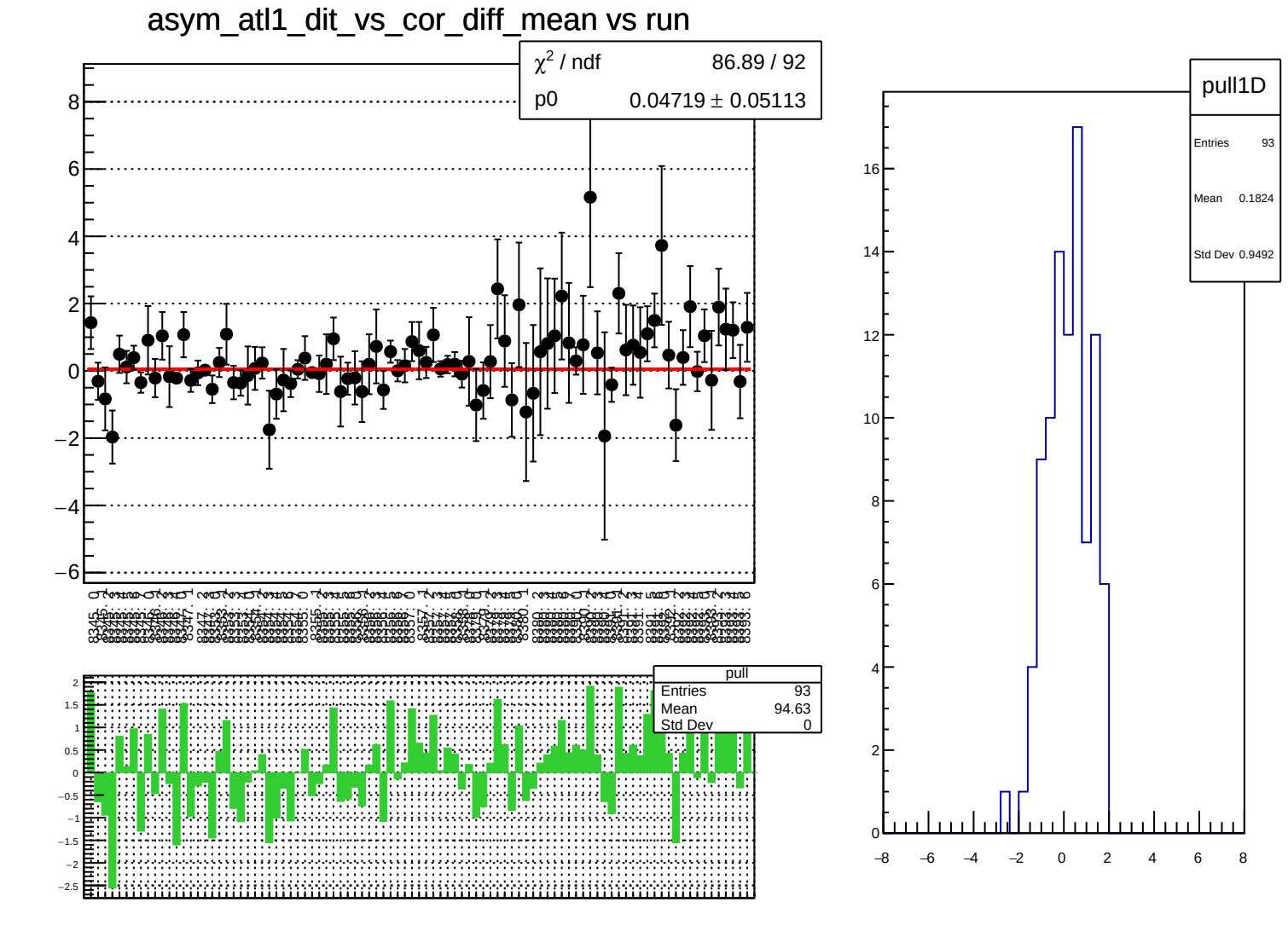

pull1D
Entries 93
Mean −0.01735
Std Dev 0.9173

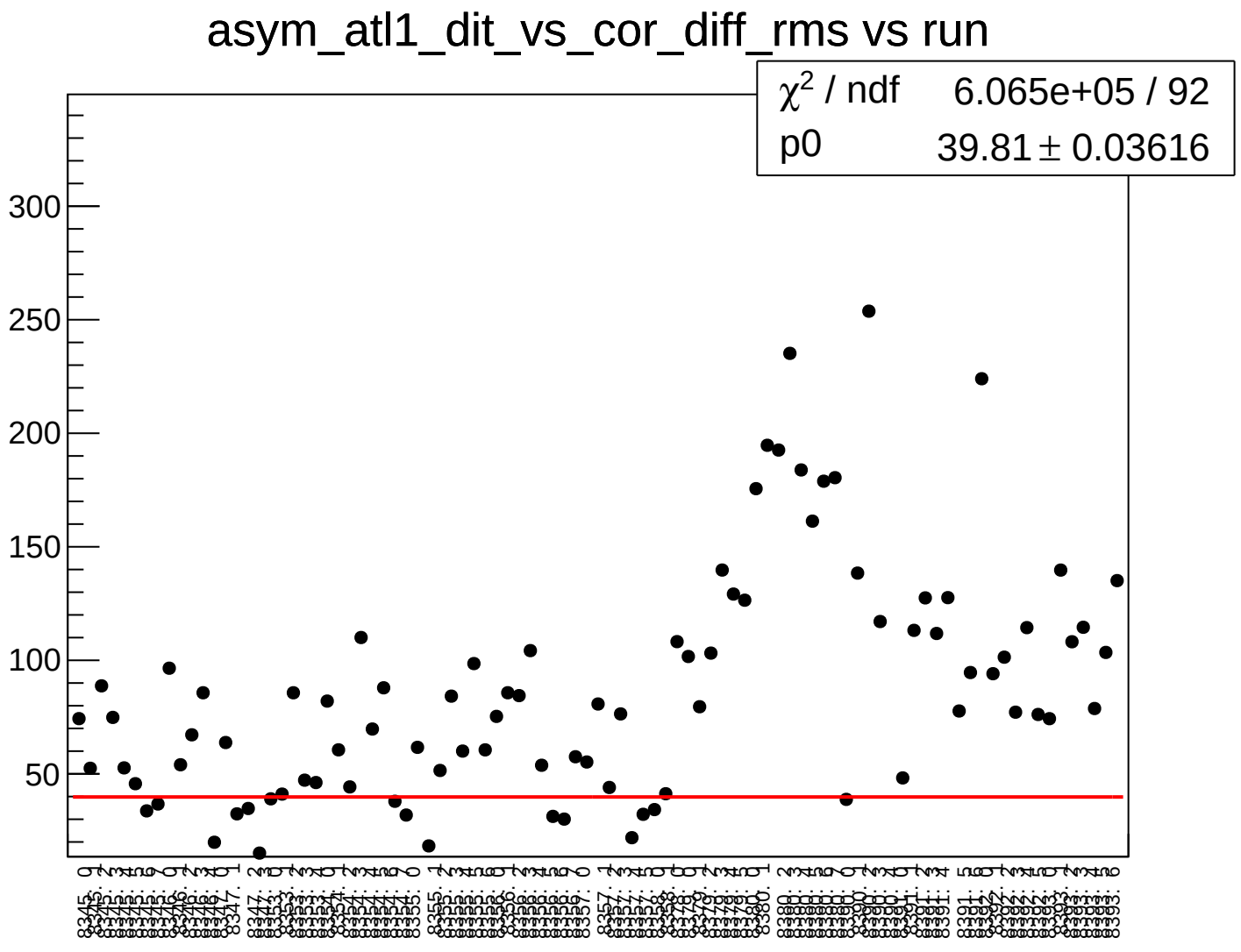

asym_atl1_rms vs run
χ² / ndf 1904 / 92
p0 2515 ± 1.866
2700
2650
2600
2550
2500
2450
2400
2350

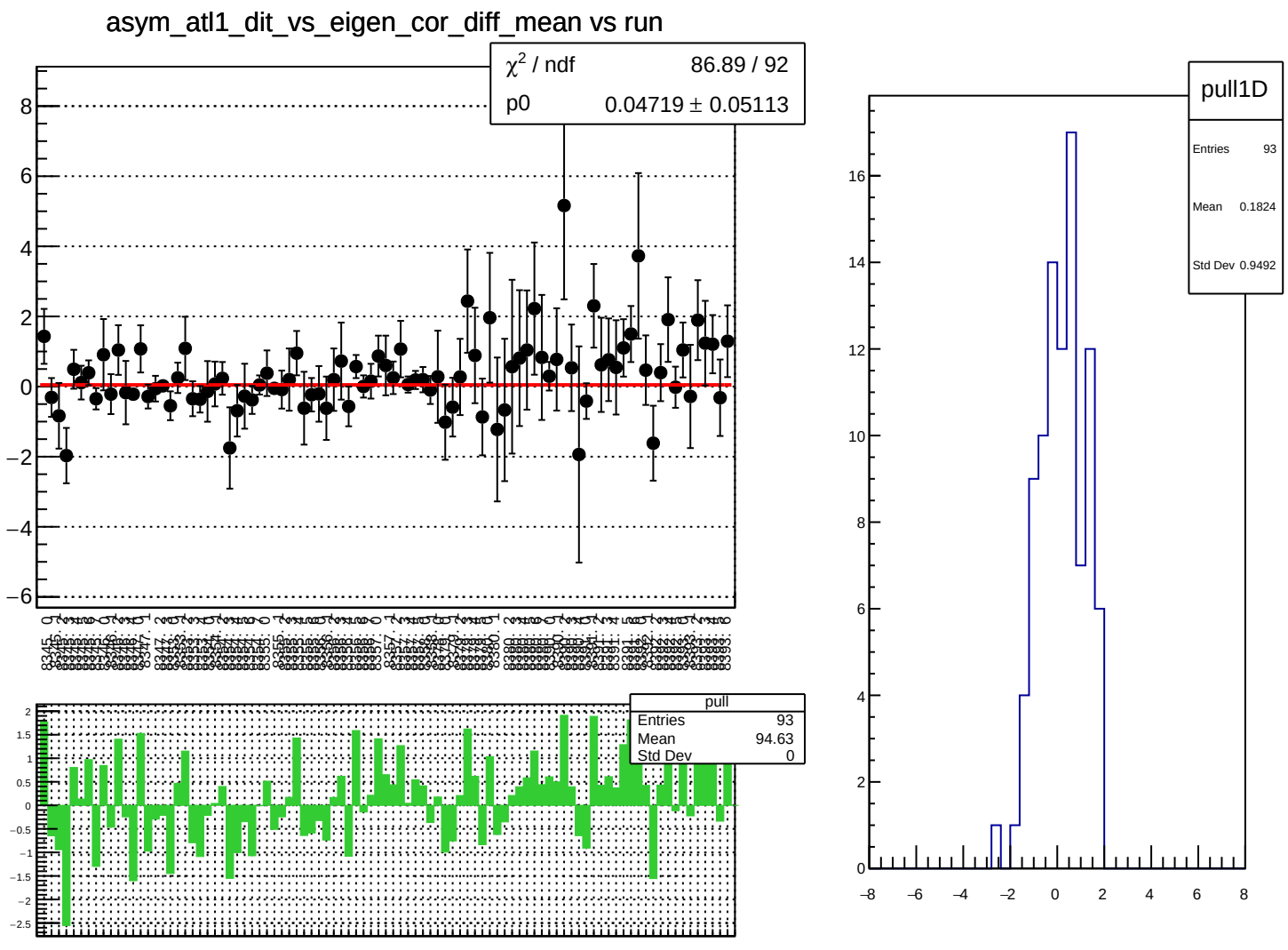

asym_atl1_reg_vs_cor_diff_mean vs run
χ² / ndf 95.58 / 92
p0 −5.009e−15 ± 1.13e−13
0.04
0.02
0
−0.02
−0.04
pull
Entries 93
Mean −87.54
Std Dev 0
2
1
0
−1
−2

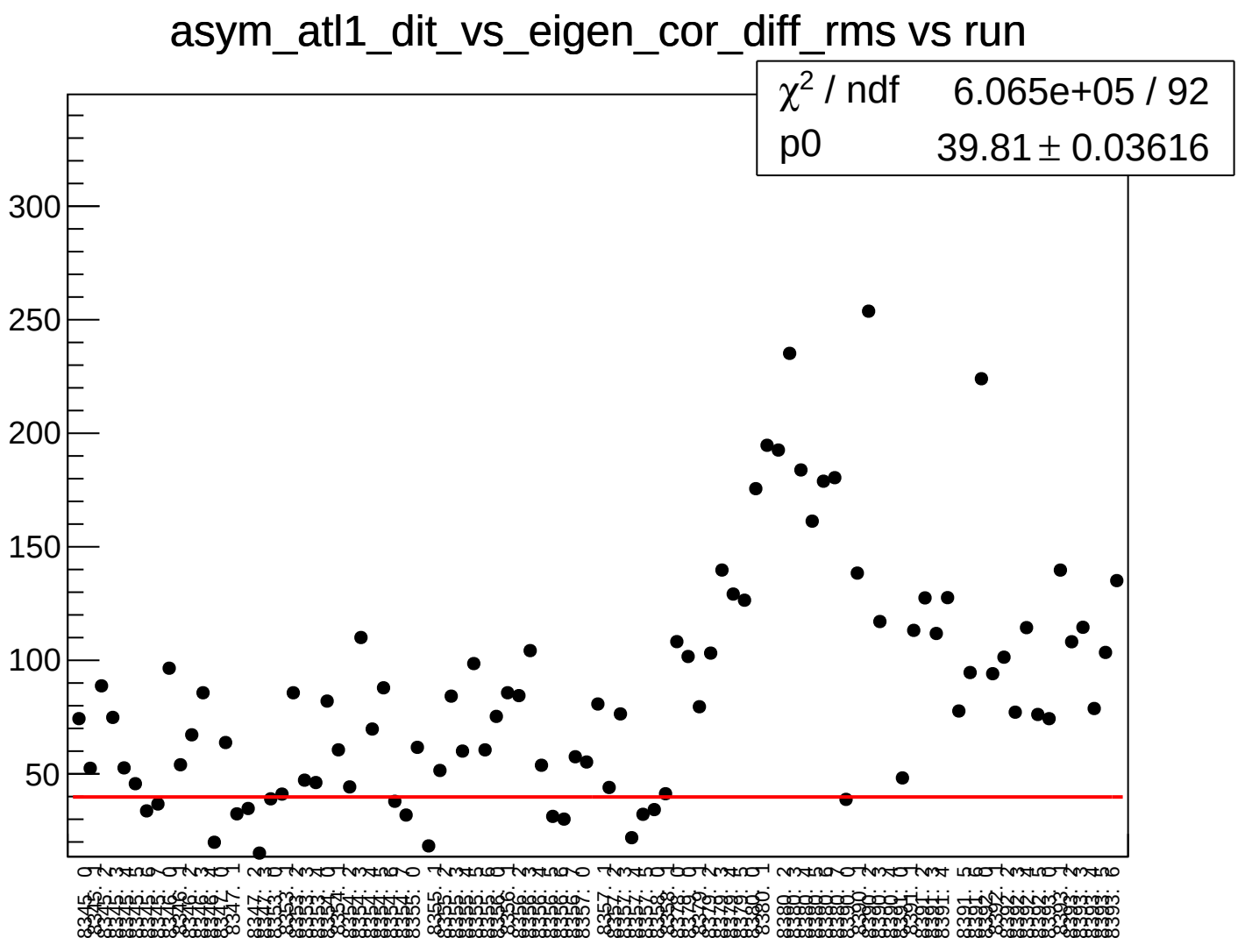

pull1D
Entries 93
Mean 0.03153
Std Dev 1.013
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

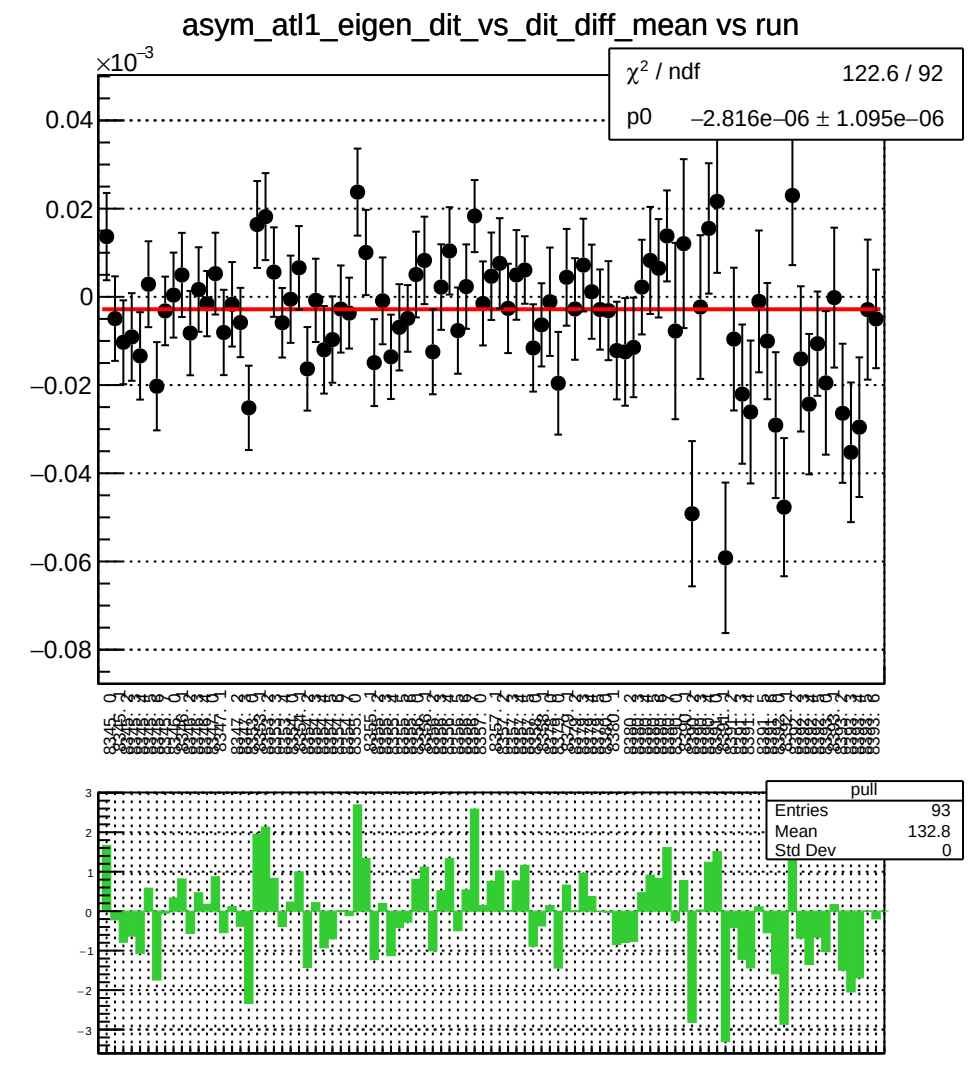

asym_atl1_reg_vs_cor_diff_rms vs run
χ² / ndf 9.74e+05 / 92
p0 7.346e−11 ± 7.992e−14
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

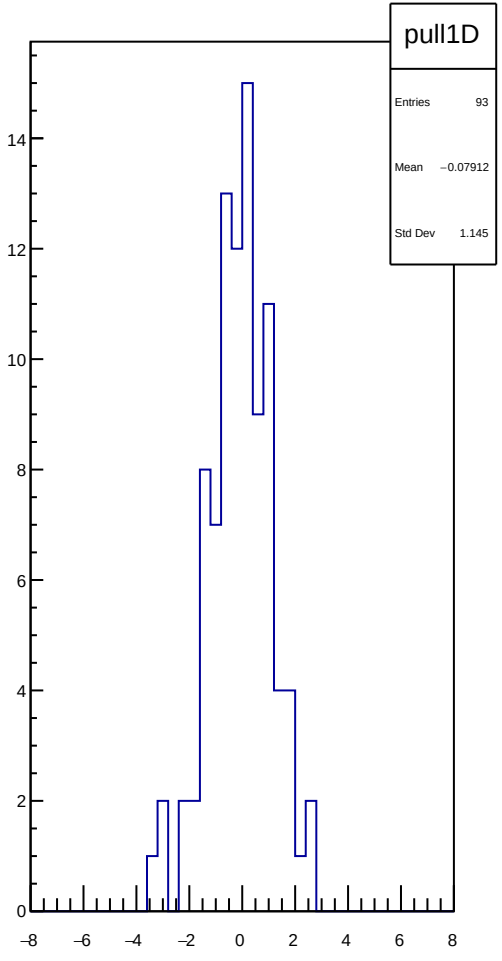

asym_atl1_dit_vs_cor_diff_mean vs run
χ² / ndf 86.89 / 92
p0 0.04719 ± 0.05113
pull
Entries 93
Mean 94.63
Std Dev 0
pull1D
Entries 93
Mean 0.1824
Std Dev 0.9492

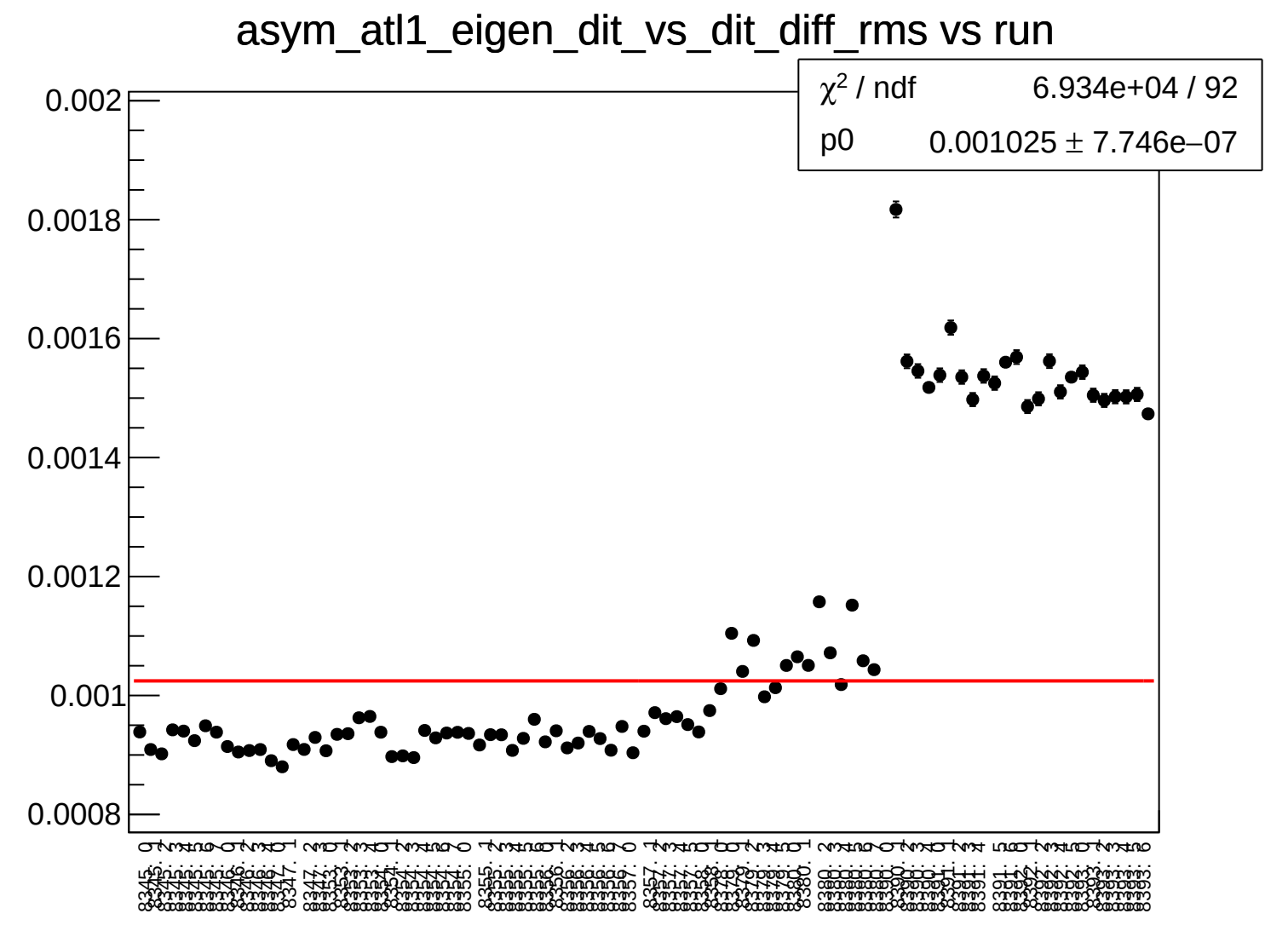

asym_atl1_dit_vs_cor_diff_rms vs run
χ² / ndf 6.065e+05 / 92
p0 39.81 ± 0.03616
300
250
200
150
100
50

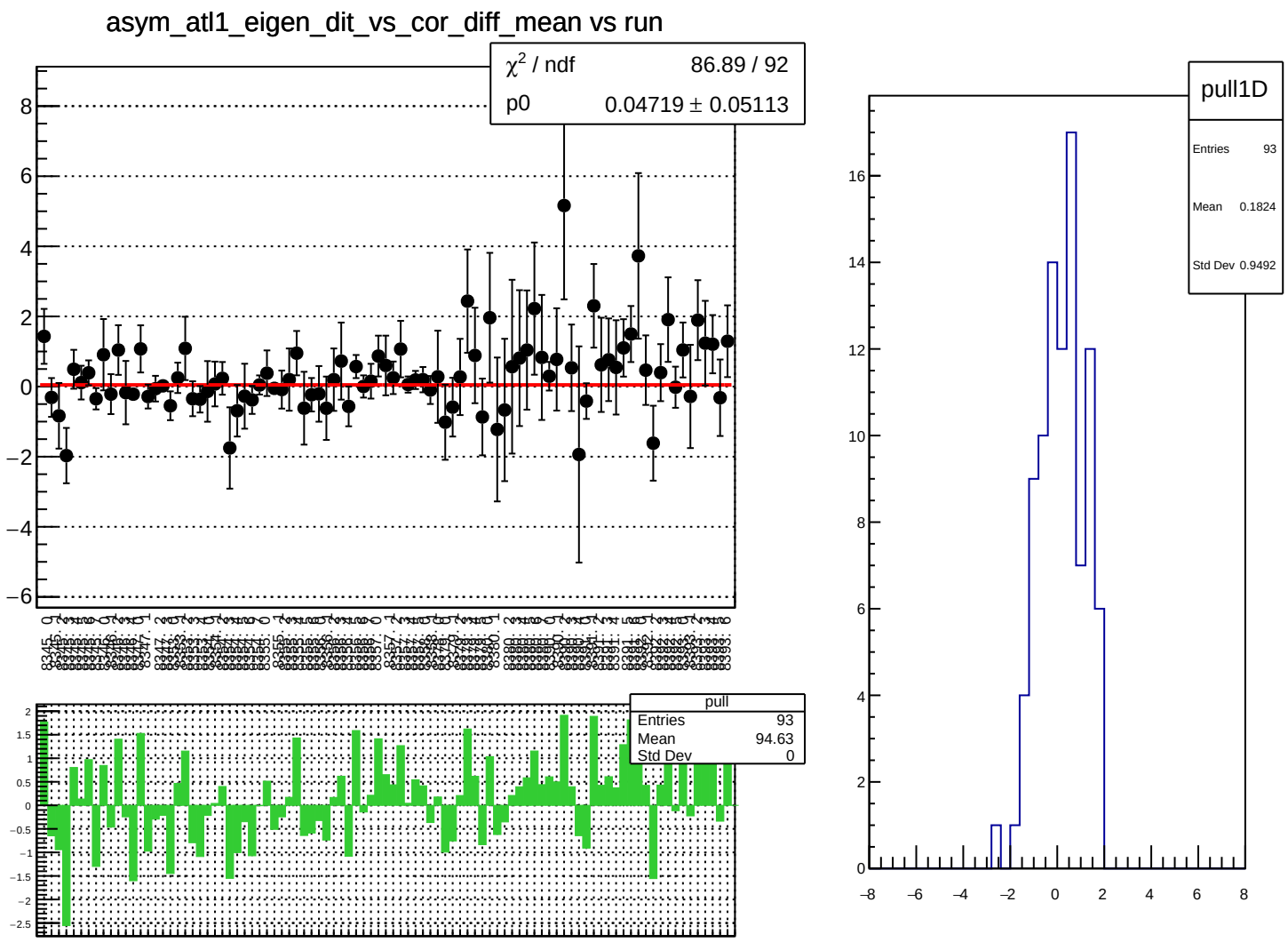

asym_atl1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.89 / 92
p0 0.04719 ± 0.05113
pull
Entries 93
Mean 94.63
Std Dev 0
pull1D
Entries 93
Mean 0.1824
Std Dev 0.9492

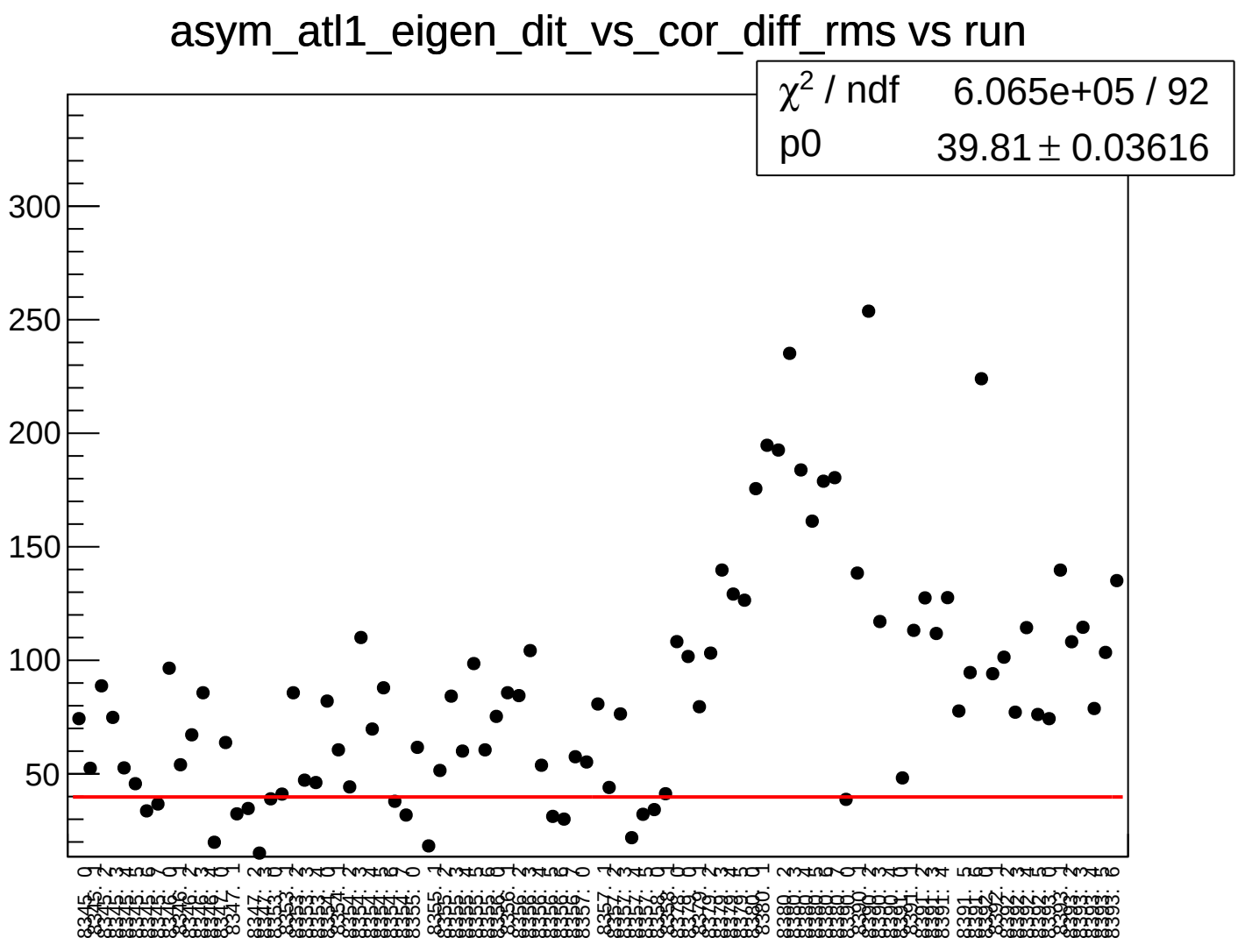

asym_atl1_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 6.065e+05 / 92
p0 39.81 ± 0.03616
300
250
200
150
100
50

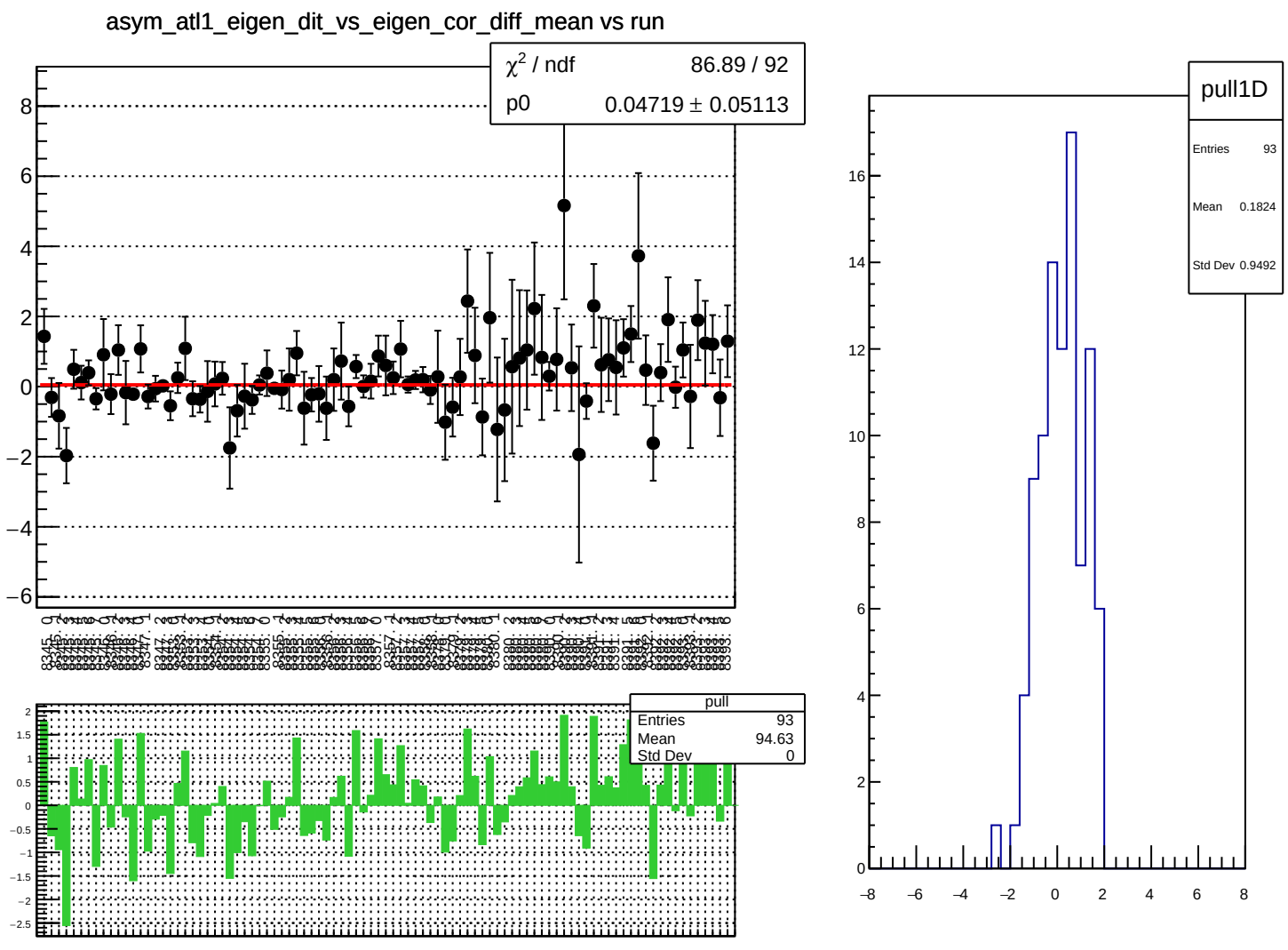

asym_atl1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 122.6 / 92
p0 −2.816e−06 ± 1.095e−06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 93
Mean 132.8
Std Dev 0
3
2
1
0
−1
−2
−3

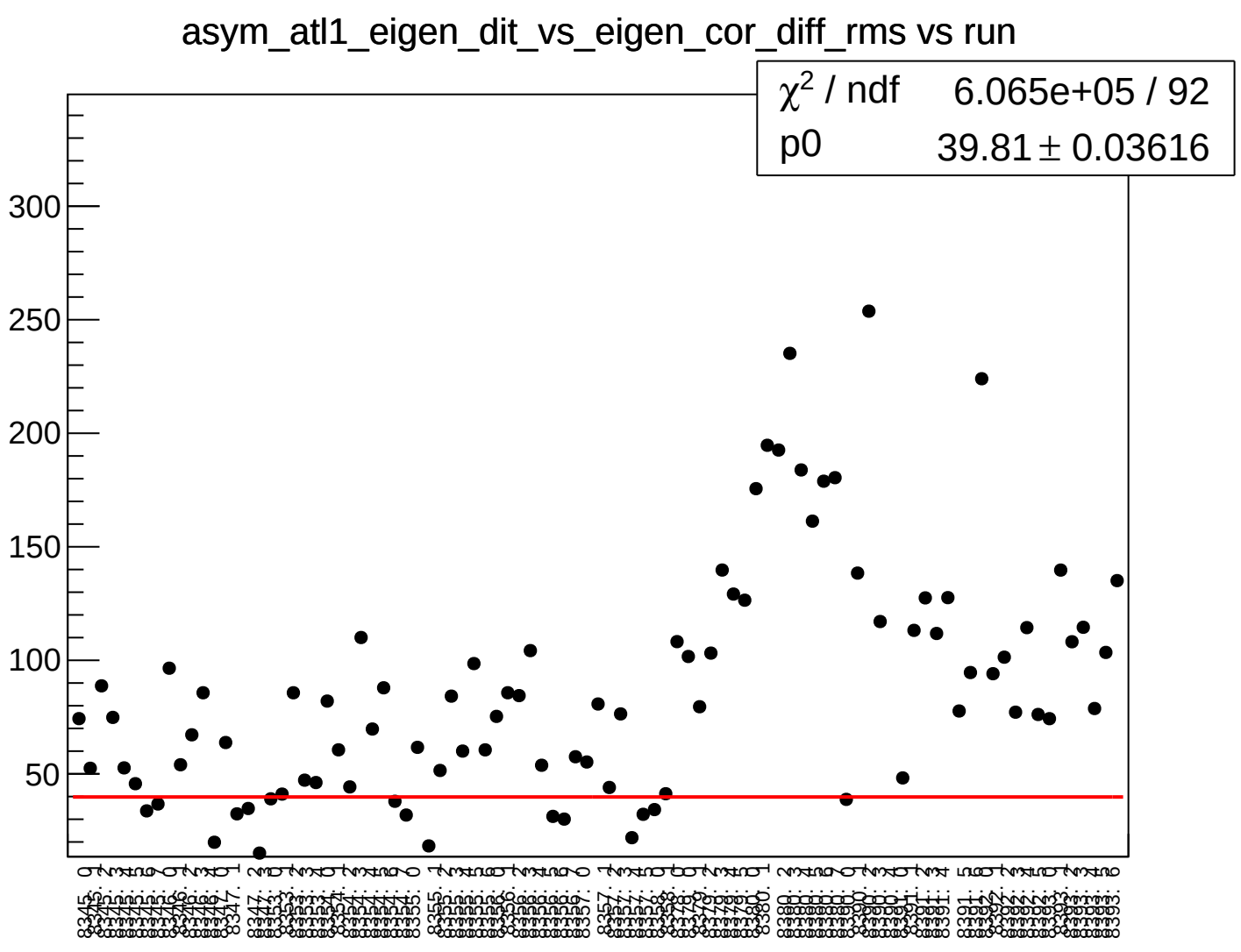

pull1D
Entries 93
Mean −0.07912
Std Dev 1.145
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

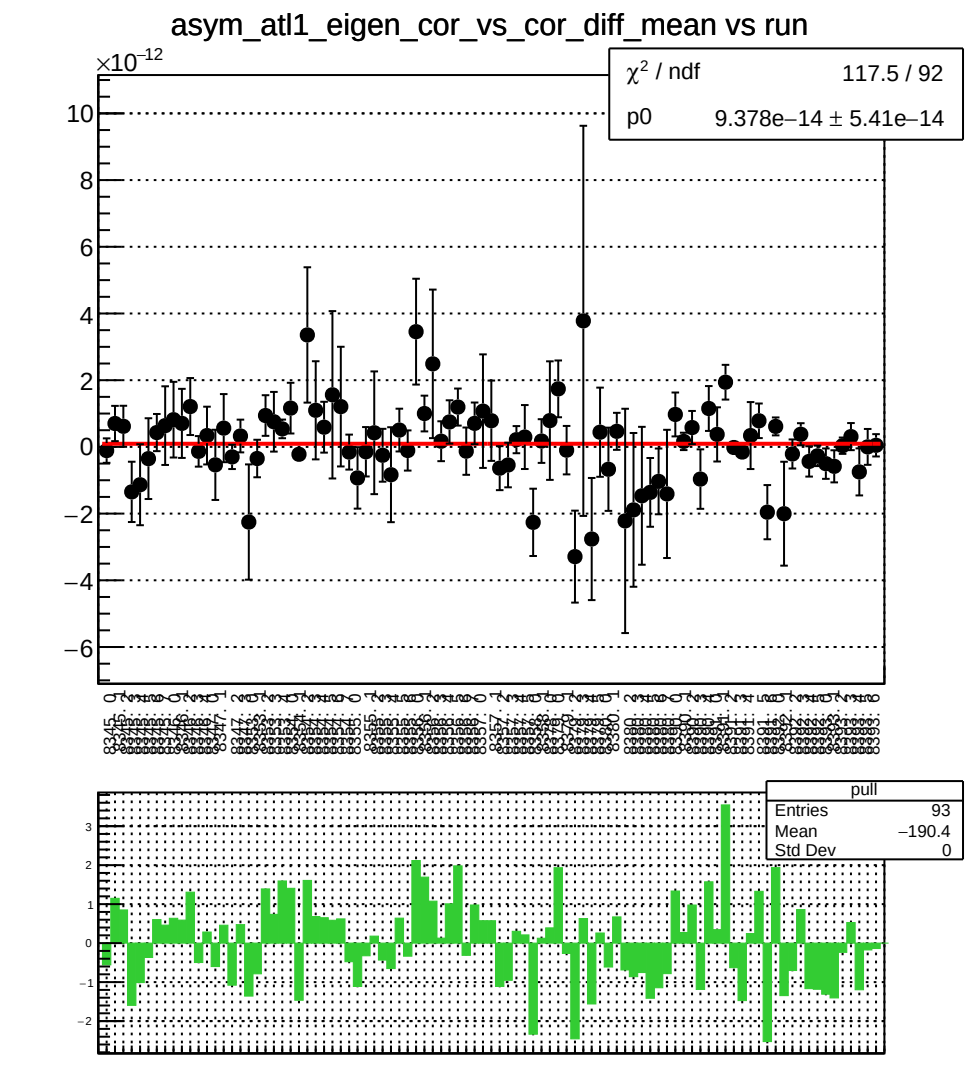

asym_atl1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.934e+04 / 92
p0 0.001025 ± 7.746e−07
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008

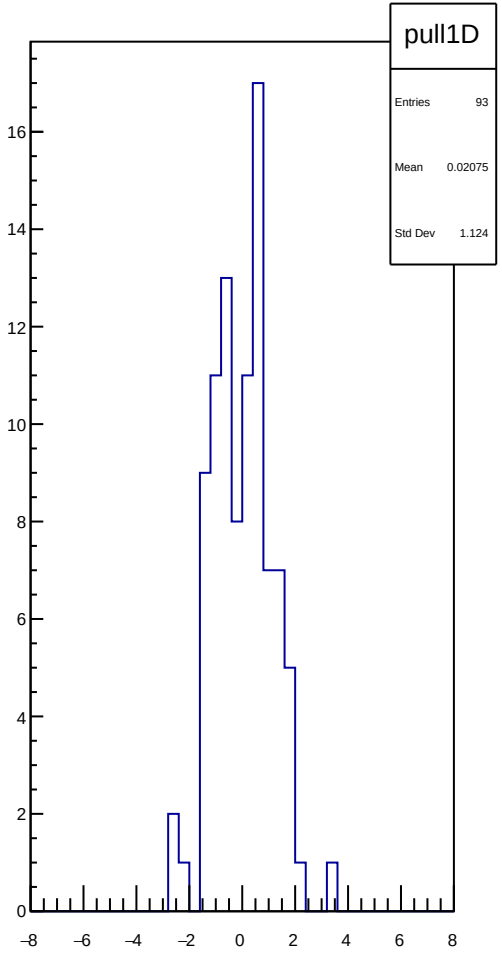

asym_atl1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.89 / 92
p0 0.04719 ± 0.05113
pull
Entries 93
Mean 94.63
Std Dev 0
pull1D
Entries 93
Mean 0.1824
Std Dev 0.9492

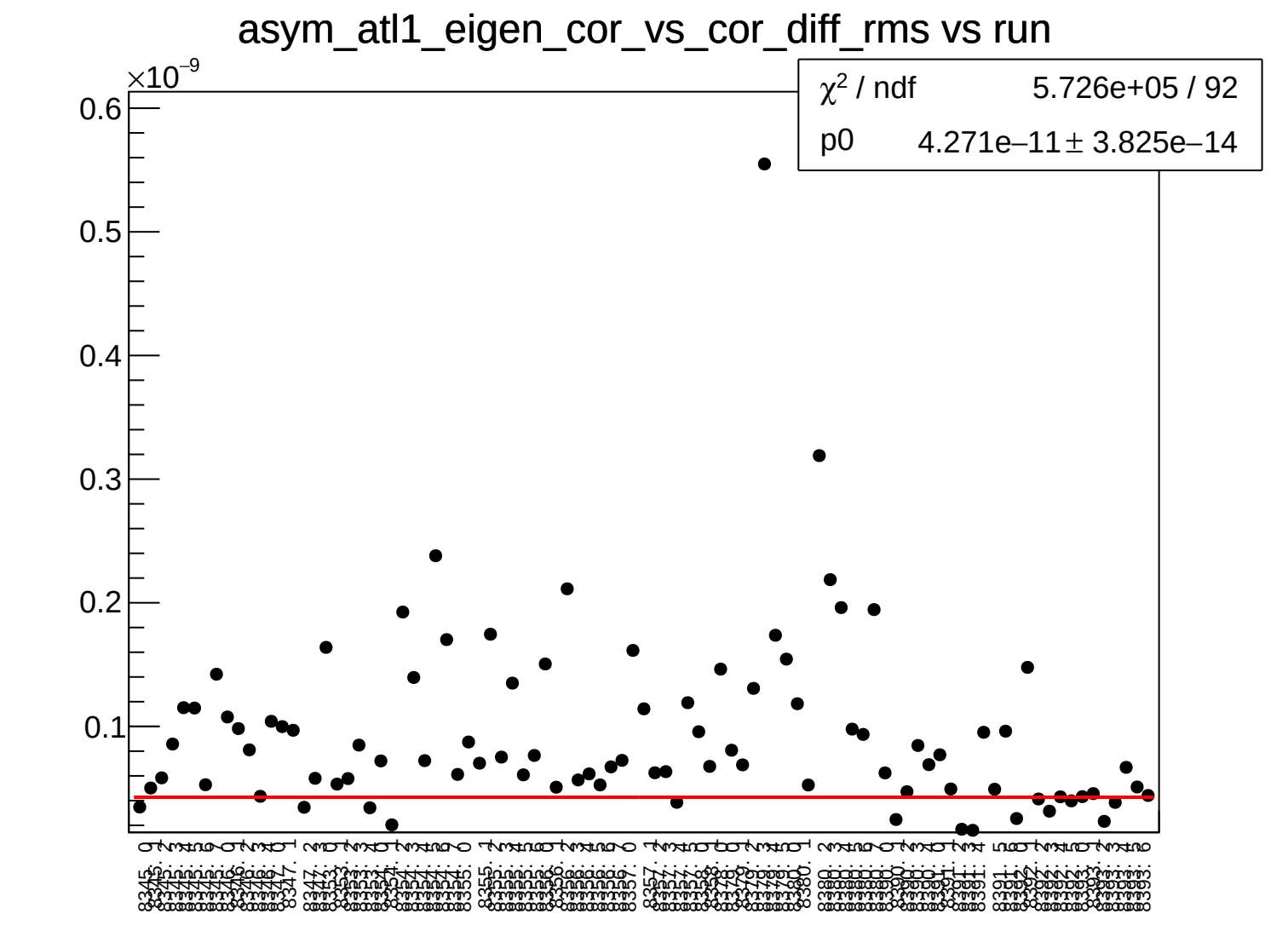

asym_atl1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.065e+05 / 92
p0 39.81 ± 0.03616
300
250
200
150
100
50

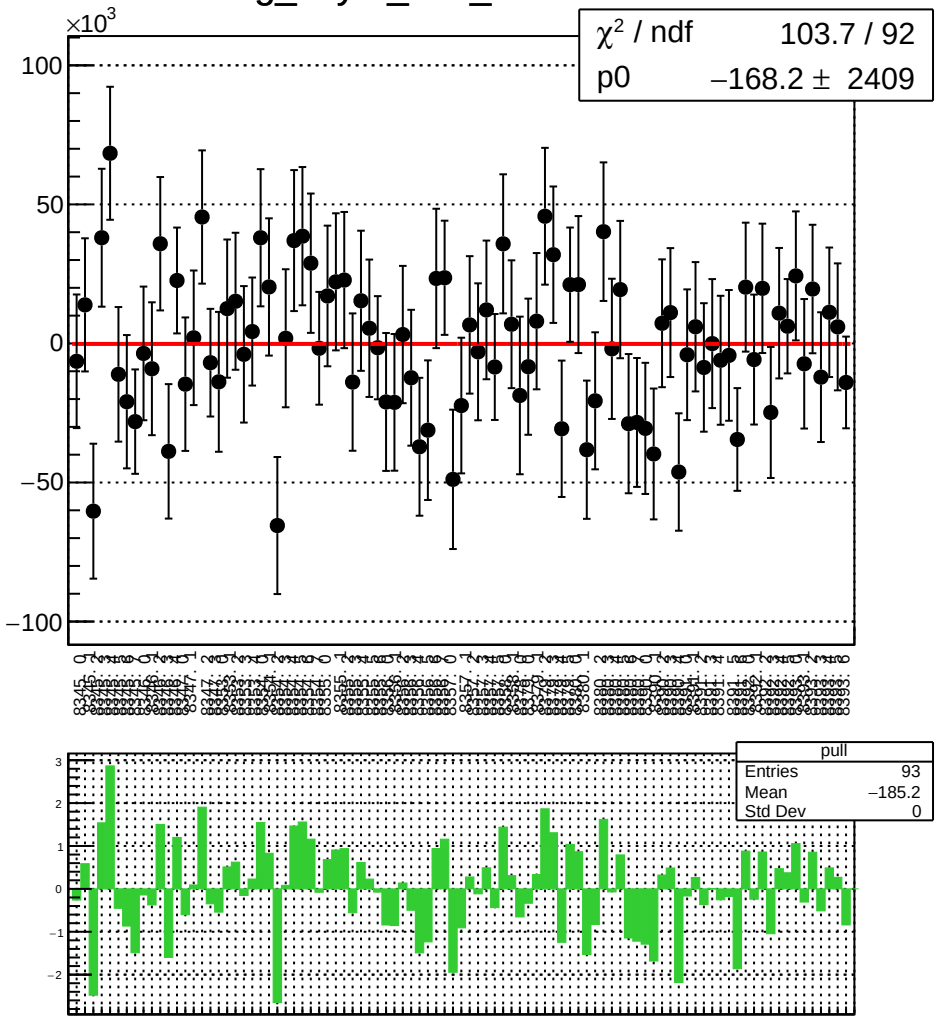

asym_atl1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.89 / 92
p0 0.04719 ± 0.05113
pull
Entries 93
Mean 94.63
Std Dev 0
pull1D
Entries 93
Mean 0.1824
Std Dev 0.9492

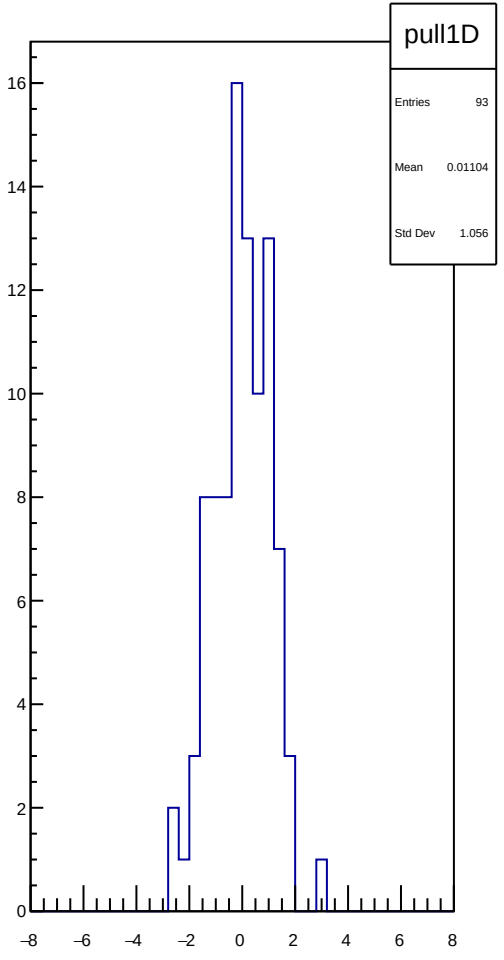

asym_atl1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.065e+05 / 92
p0 39.81 ± 0.03616
300
250
200
150
100
50

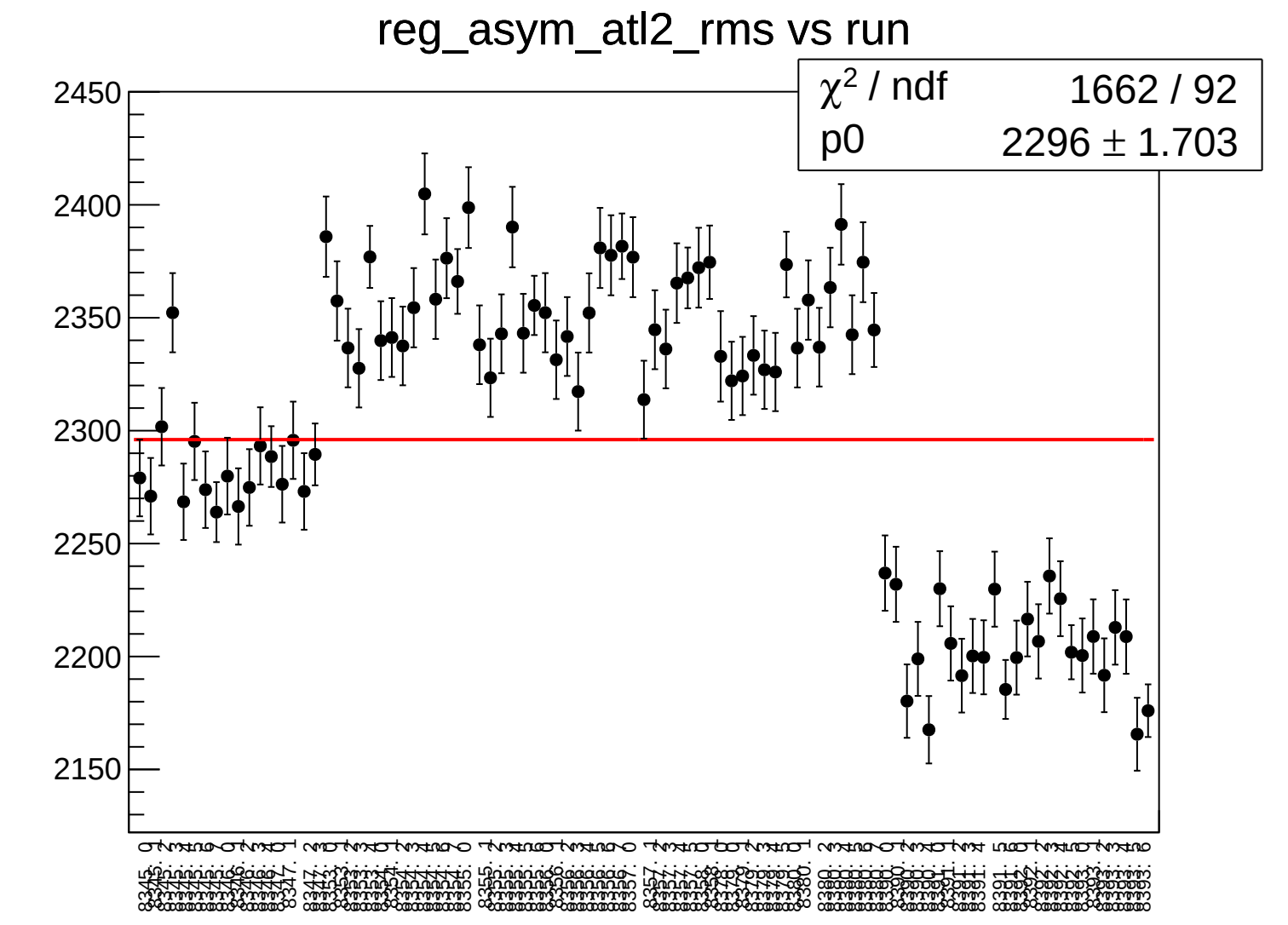

asym_atl1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 117.5 / 92
p0 9.378e−14 ± 5.41e−14
pull
Entries 93
Mean −190.4
Std Dev 0

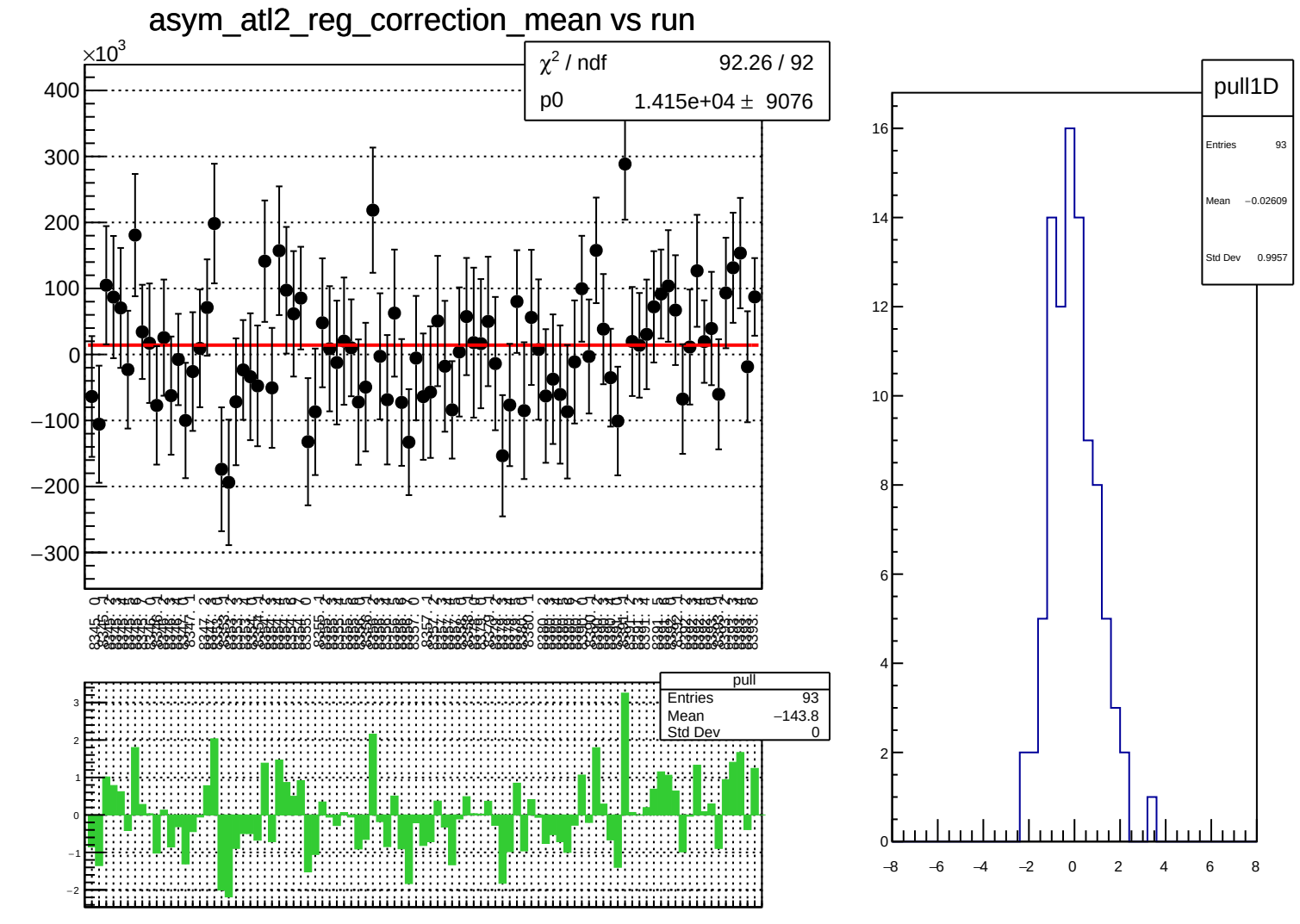

pull1D
Entries 93
Mean 0.02075
Std Dev 1.124

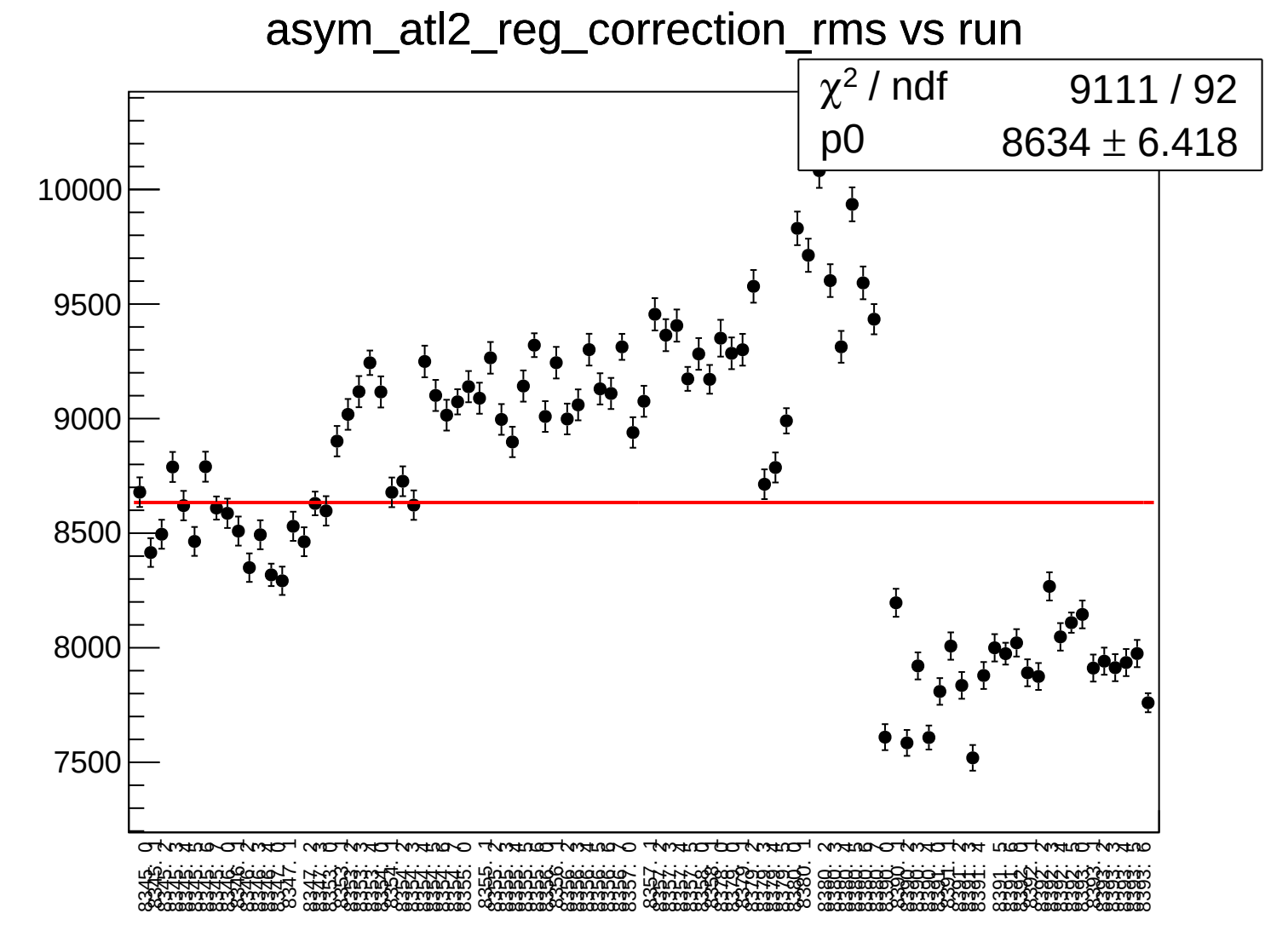

asym_atl1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.726e+05 / 92
p0 4.271e−11 ± 3.825e−14
0.6
0.5
0.4
0.3
0.2
0.1

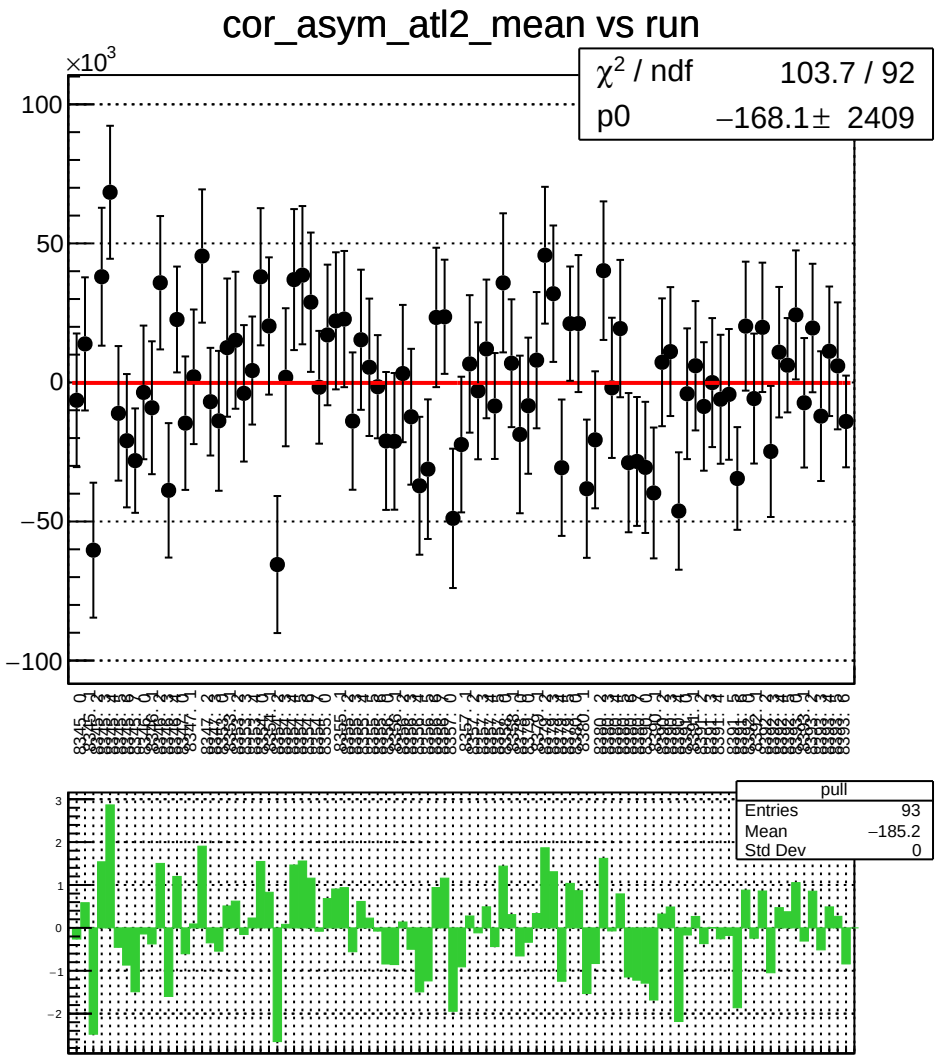

reg_asym_atl2_mean vs run
×10^3
χ² / ndf 103.7 / 92
p0 −168.2 ± 2409
100
50
0
−50
−100
pull
Entries 93
Mean −185.2
Std Dev 0
3
2
1
0
−1
−2

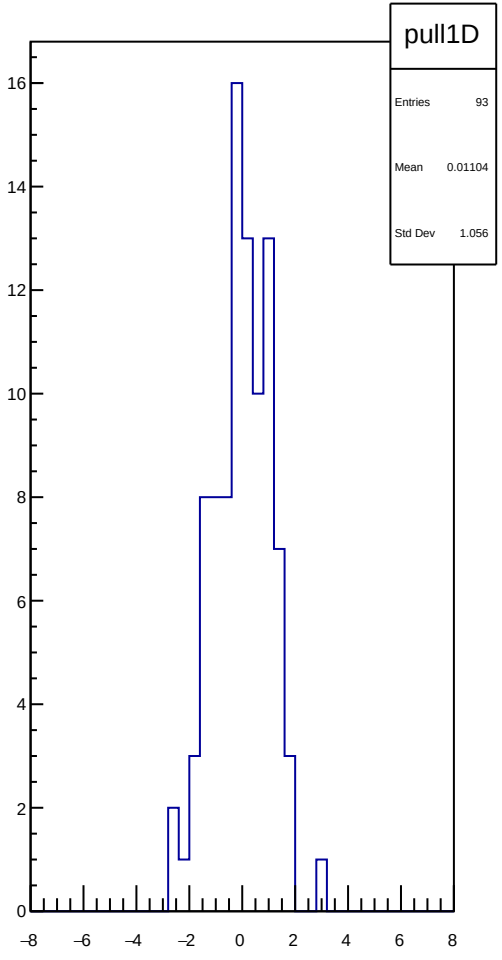

pull1D
Entries 93
Mean 0.01104
Std Dev 1.056
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

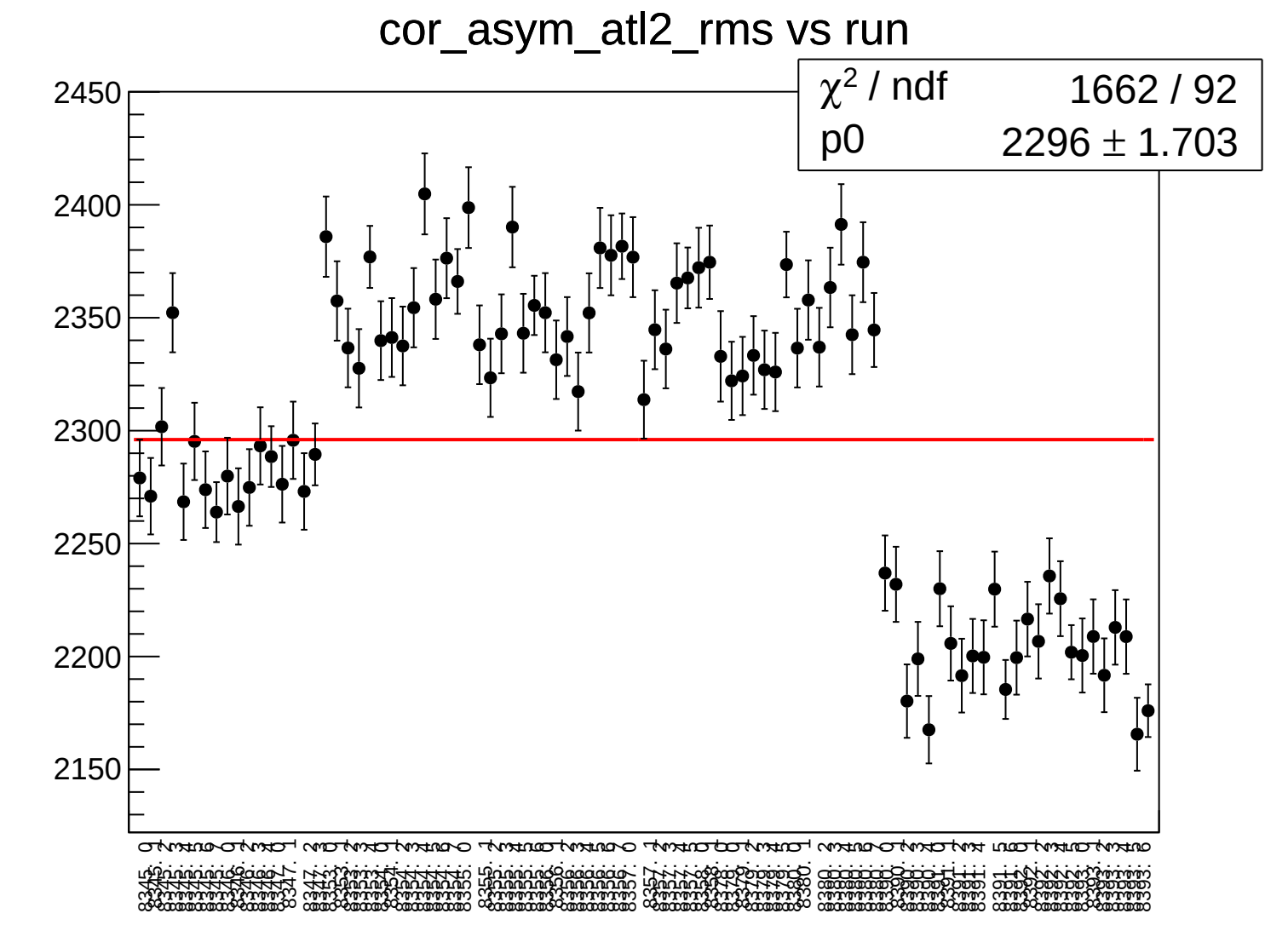

reg_asym_atl2_rms vs run
χ^2 / ndf 1662 / 92
p0 2296 ± 1.703
2450
2400
2350
2300
2250
2200
2150

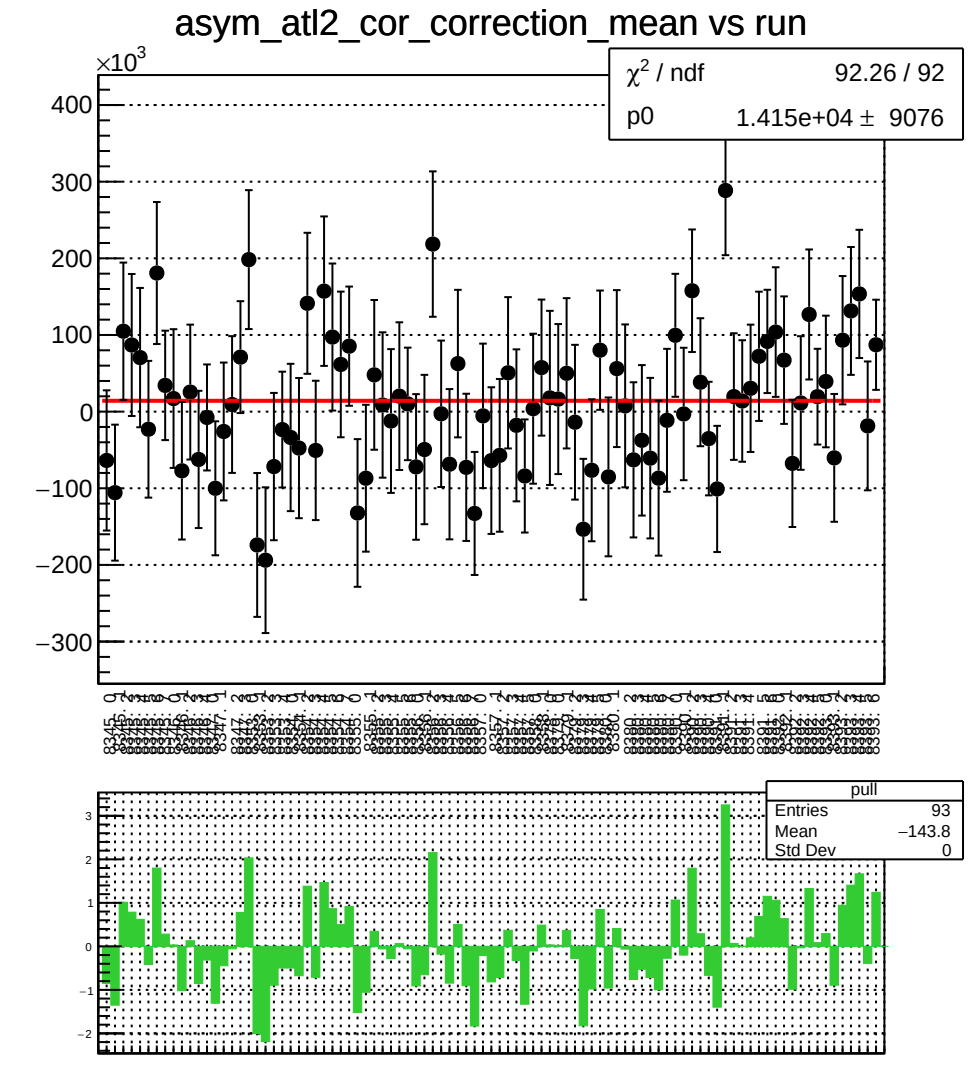

asym_atl2_reg_correction_mean vs run
×10^3
χ² / ndf 92.26 / 92
p0 1.415e+04 ± 9076
pull
Entries 93
Mean −143.8
Std Dev 0
pull1D
Entries 93
Mean −0.02609
Std Dev 0.9957

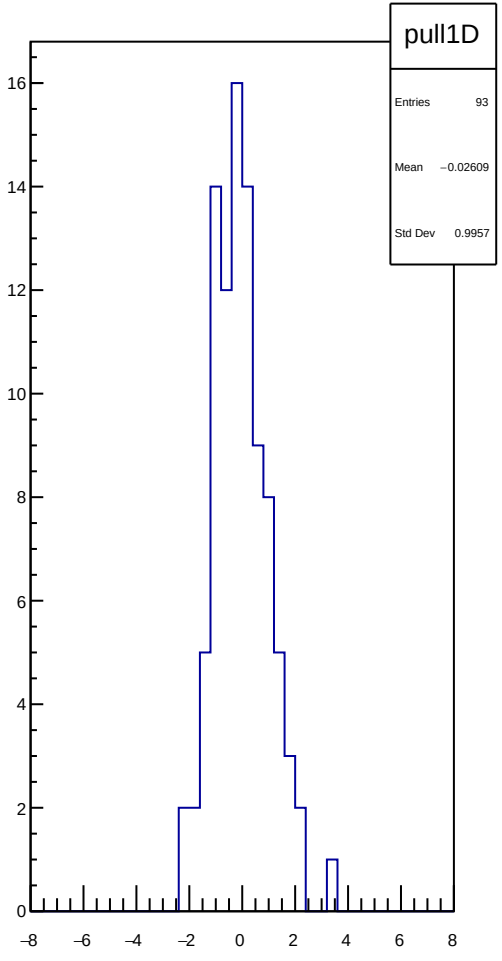

asym_atl2_reg_correction_rms vs run
χ^2 / ndf 9111 / 92
p0 8634 ± 6.418
10000
9500
9000
8500
8000
7500

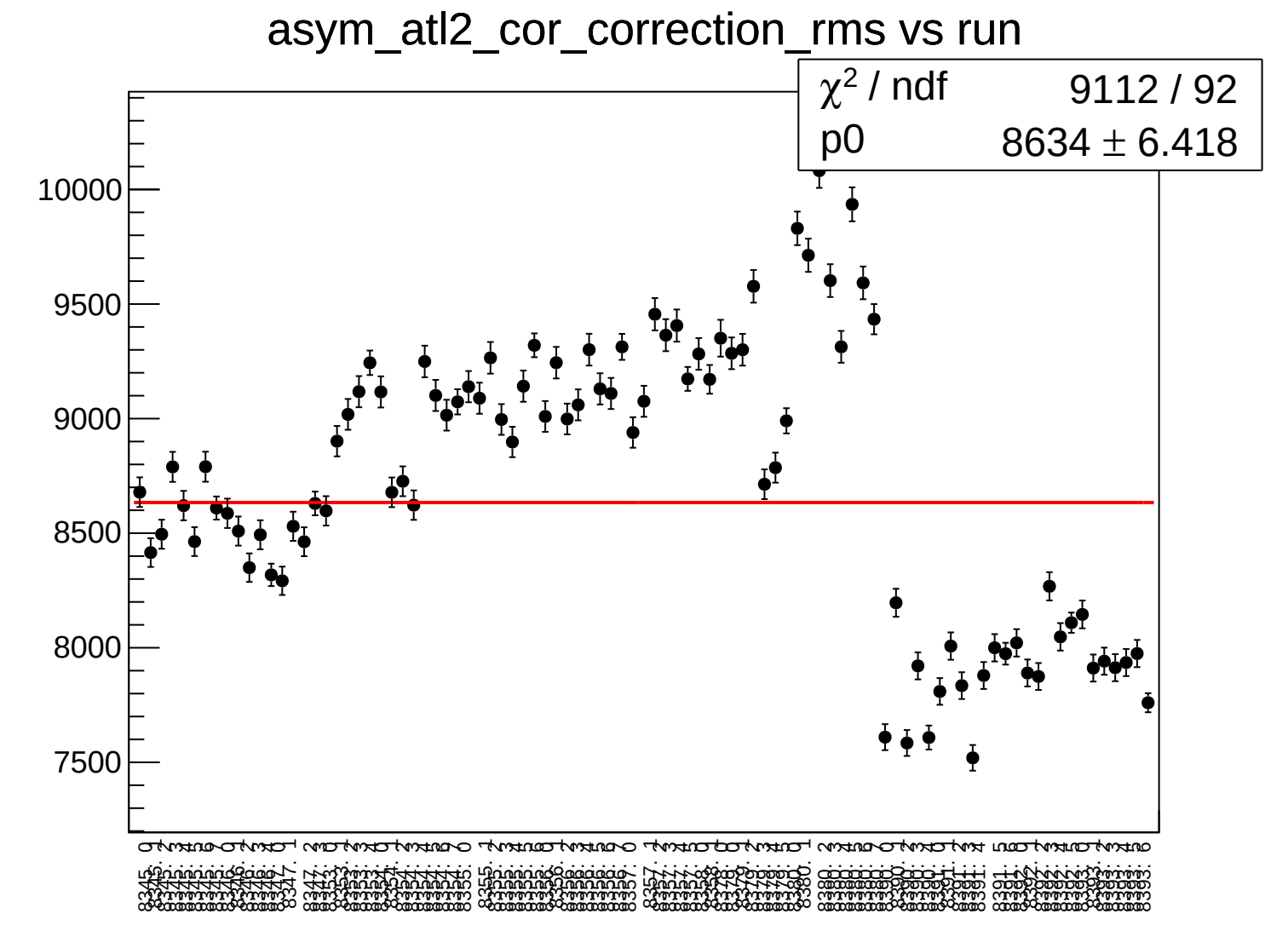

cor_asym_atl2_mean vs run
×10^3
χ^2 / ndf 103.7 / 92
p0 −168.1± 2409
100
50
0
−50
−100
pull
Entries 93
Mean −185.2
Std Dev 0
3
2
1
0
−1
−2

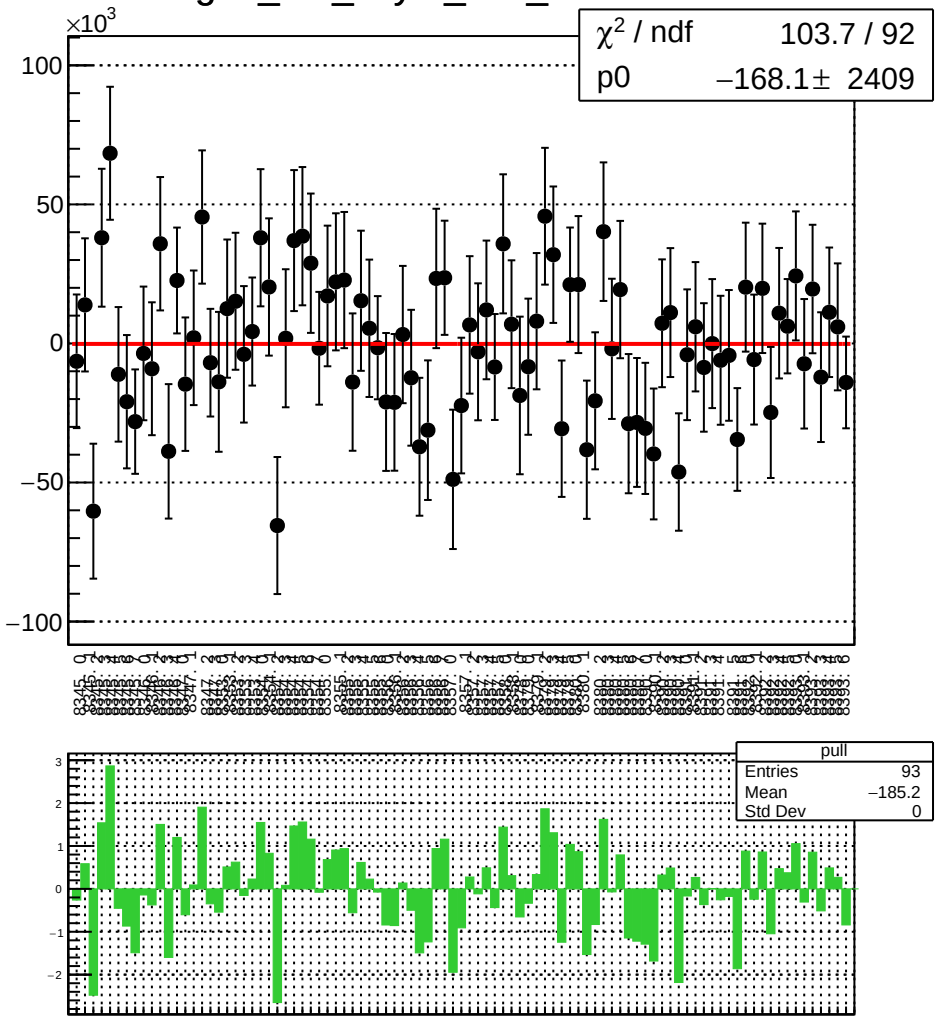

pull1D
Entries 93
Mean 0.01104
Std Dev 1.056
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

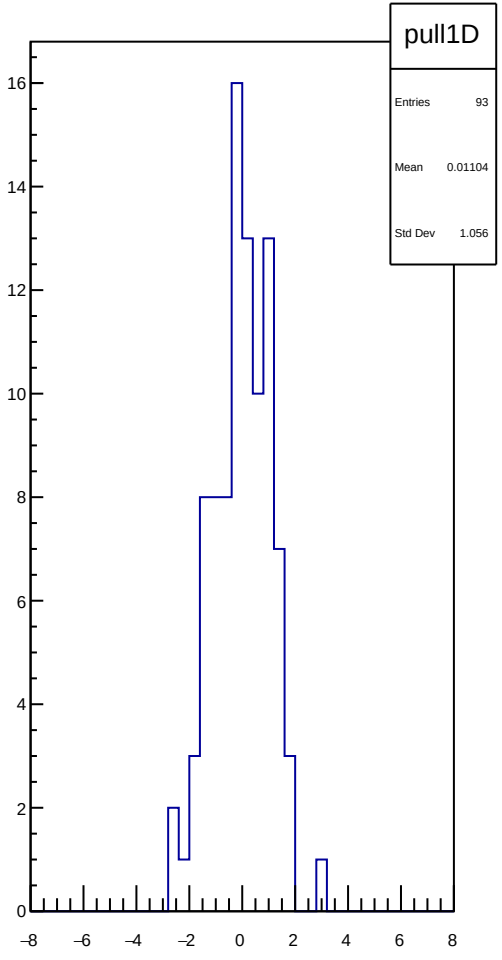

cor_asym_atl2_rms vs run
χ² / ndf 1662 / 92
p0 2296 ± 1.703
2450
2400
2350
2300
2250
2200
2150

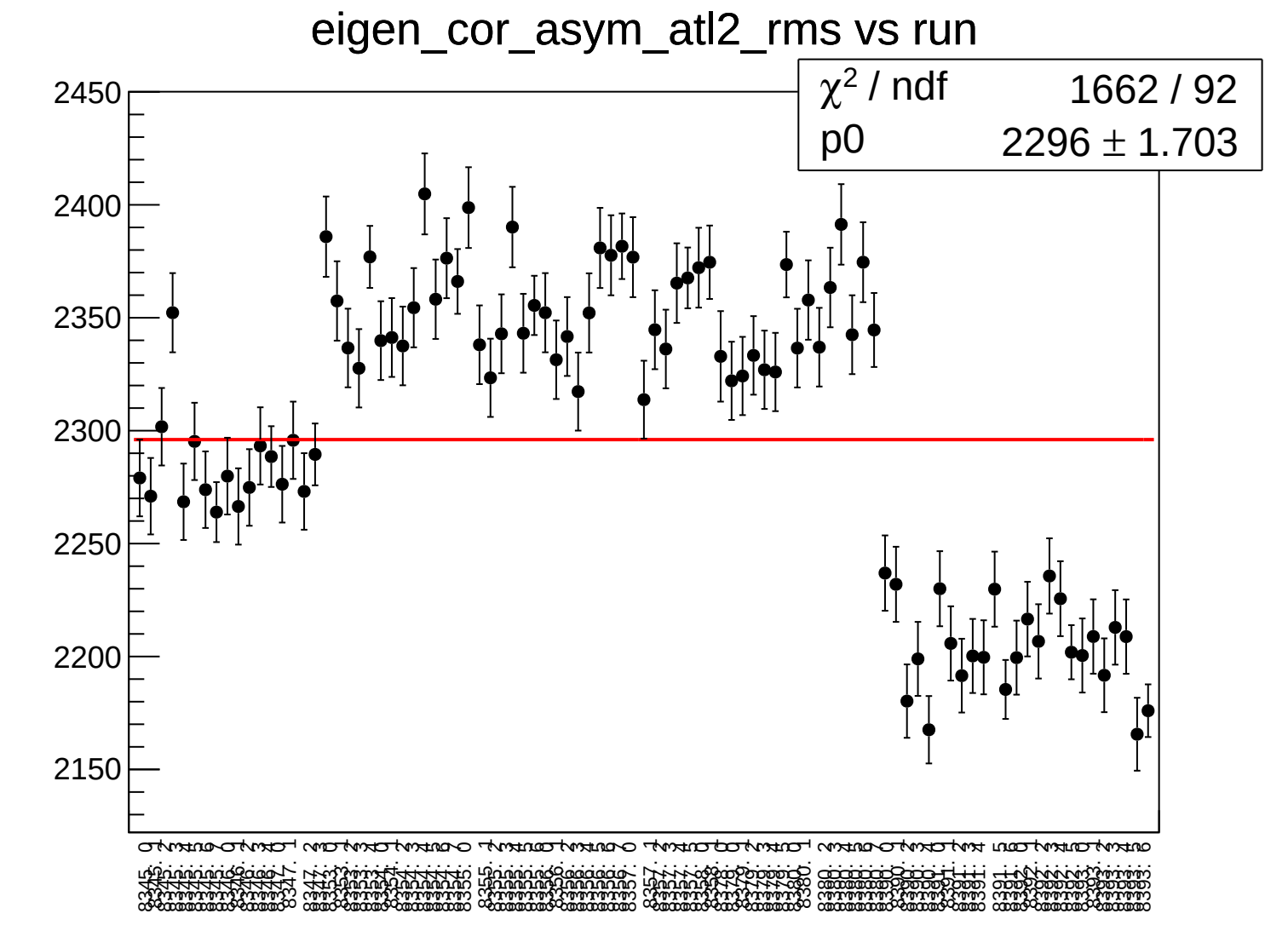

asym_atl2_cor_correction_mean vs run
×10^3
χ² / ndf 92.26 / 92
p0 1.415e+04 ± 9076
pull
Entries 93
Mean −143.8
Std Dev 0

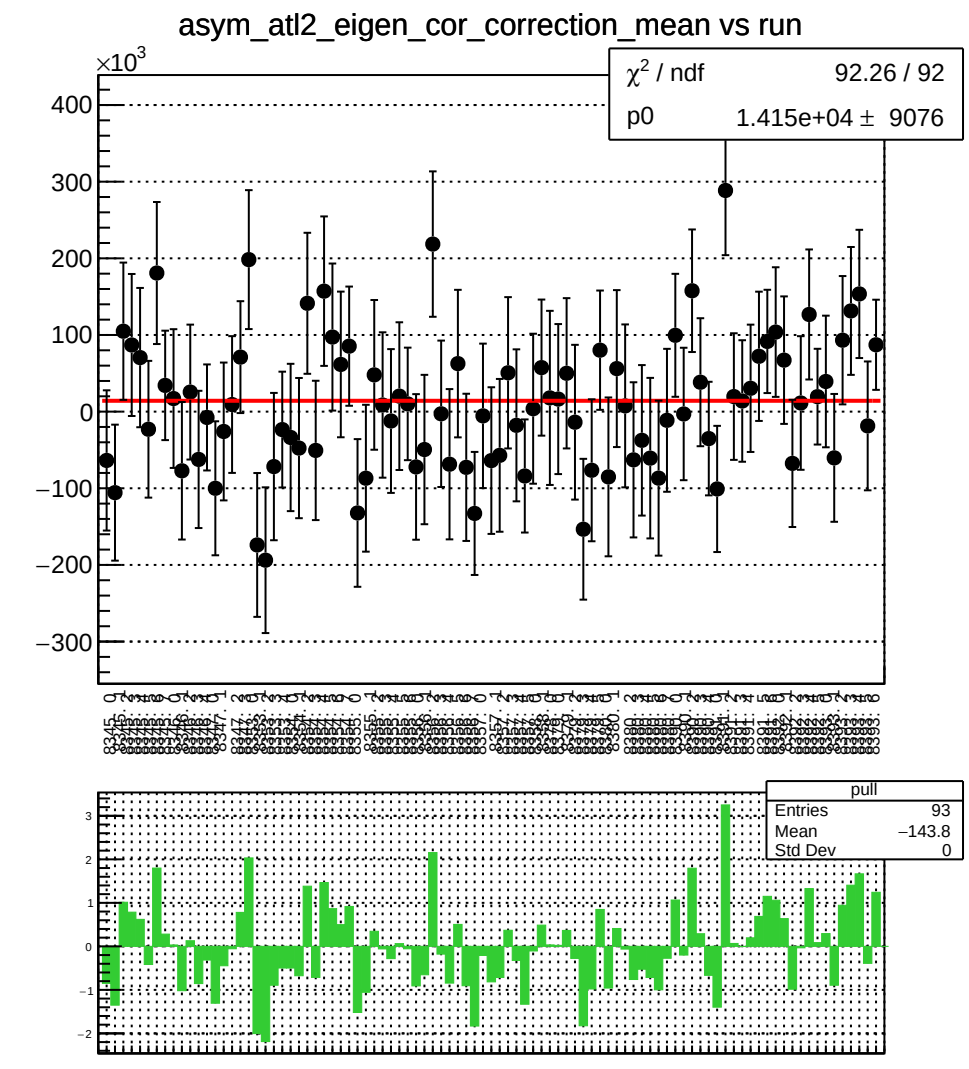

pull1D
Entries 93
Mean −0.02609
Std Dev 0.9957

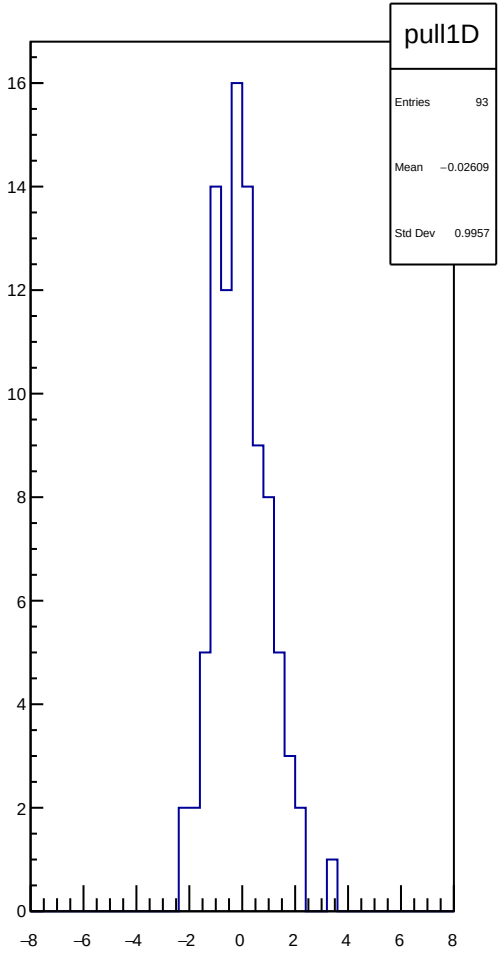

asym_atl2_cor_correction_rms vs run
χ² / ndf 9112 / 92
p0 8634 ± 6.418
10000
9500
9000
8500
8000
7500

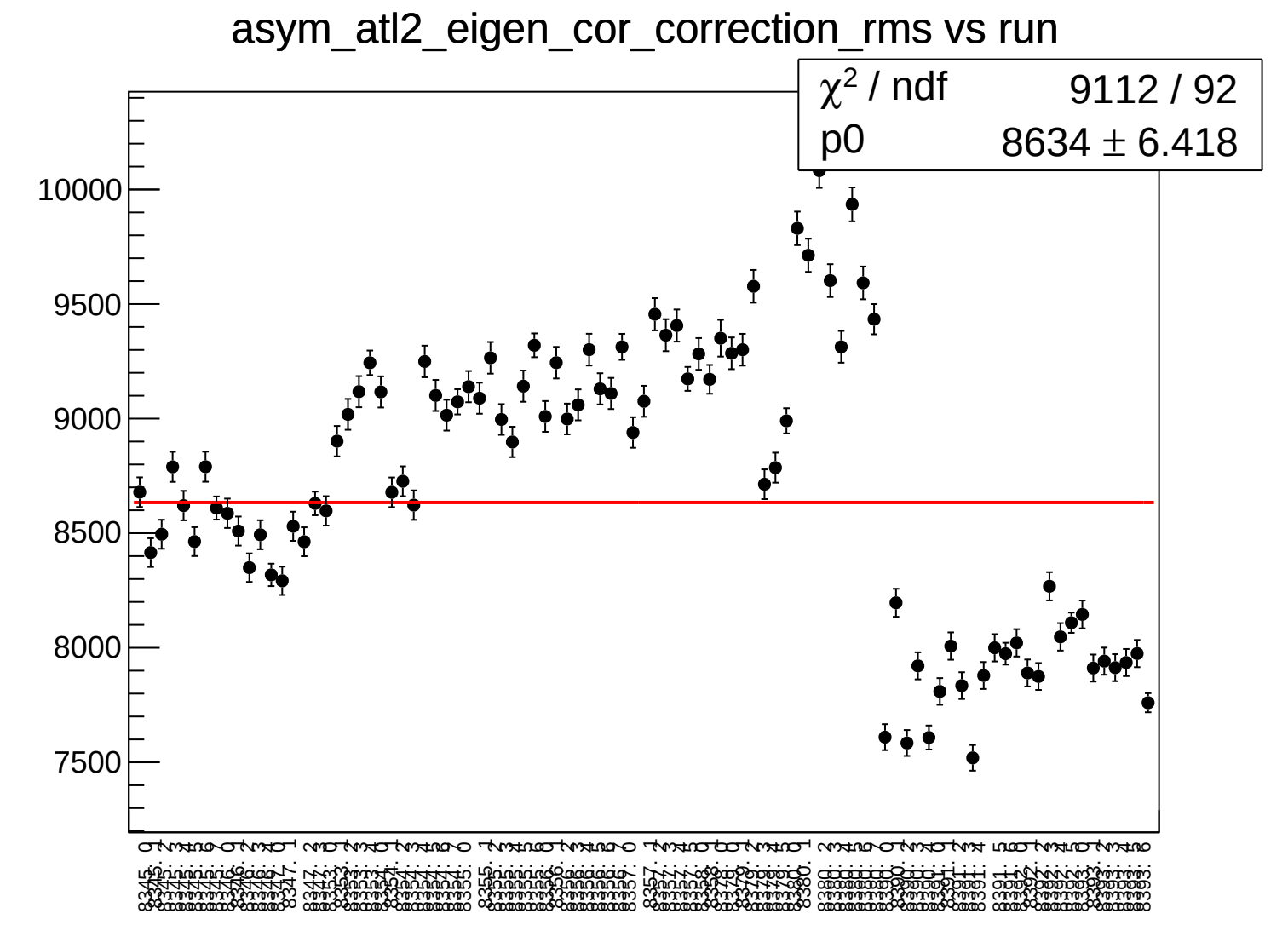

eigen_cor_asym_atl2_mean vs run
×10^3
χ^2 / ndf 103.7 / 92
p0 −168.1± 2409
pull
Entries 93
Mean −185.2
Std Dev 0

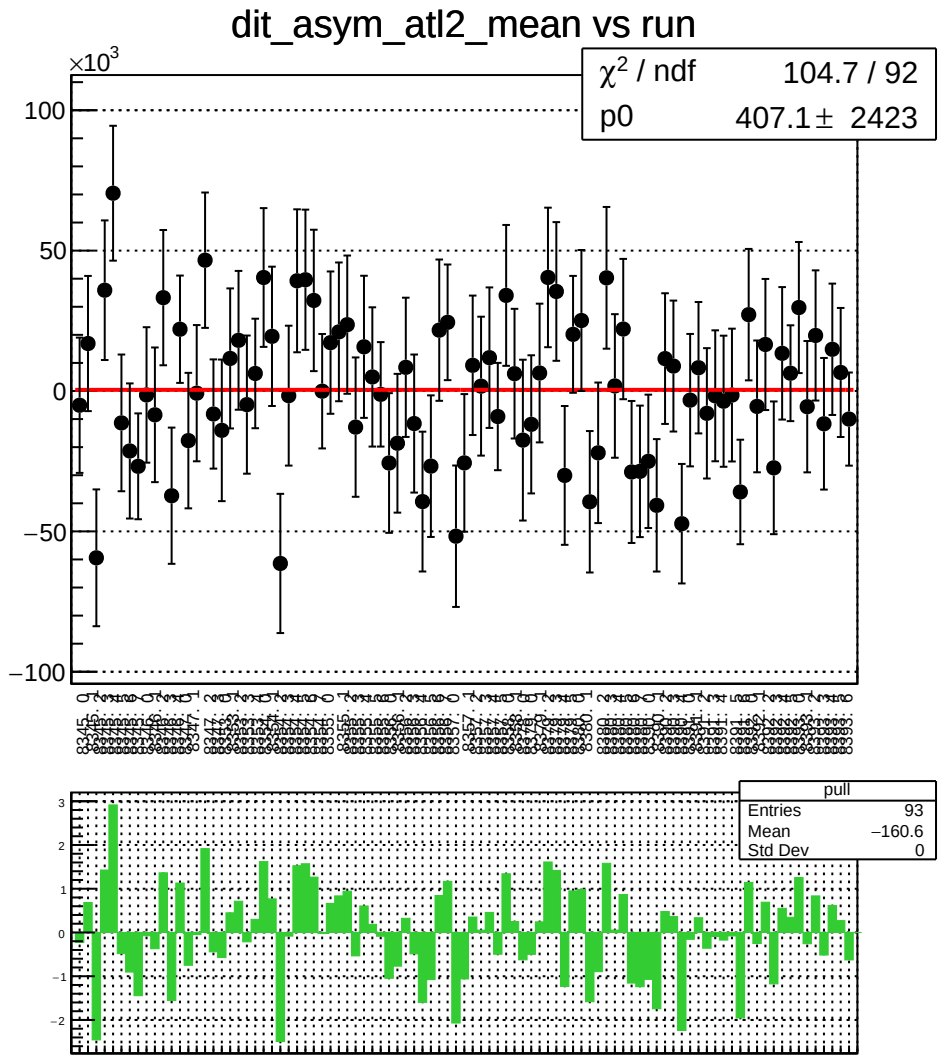

pull1D
Entries 93
Mean 0.01104
Std Dev 1.056

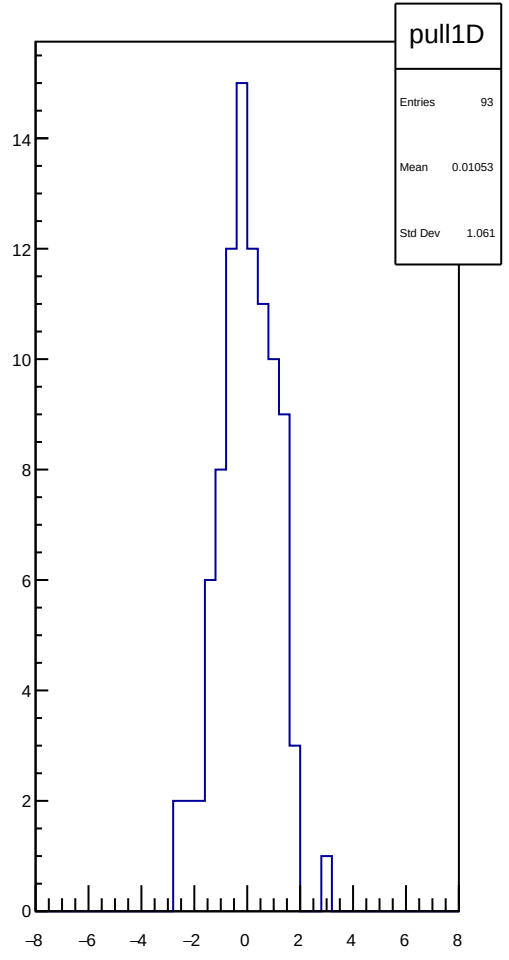

eigen_cor_asym_atl2_rms vs run
χ² / ndf 1662 / 92
p0 2296 ± 1.703
2450
2400
2350
2300
2250
2200
2150

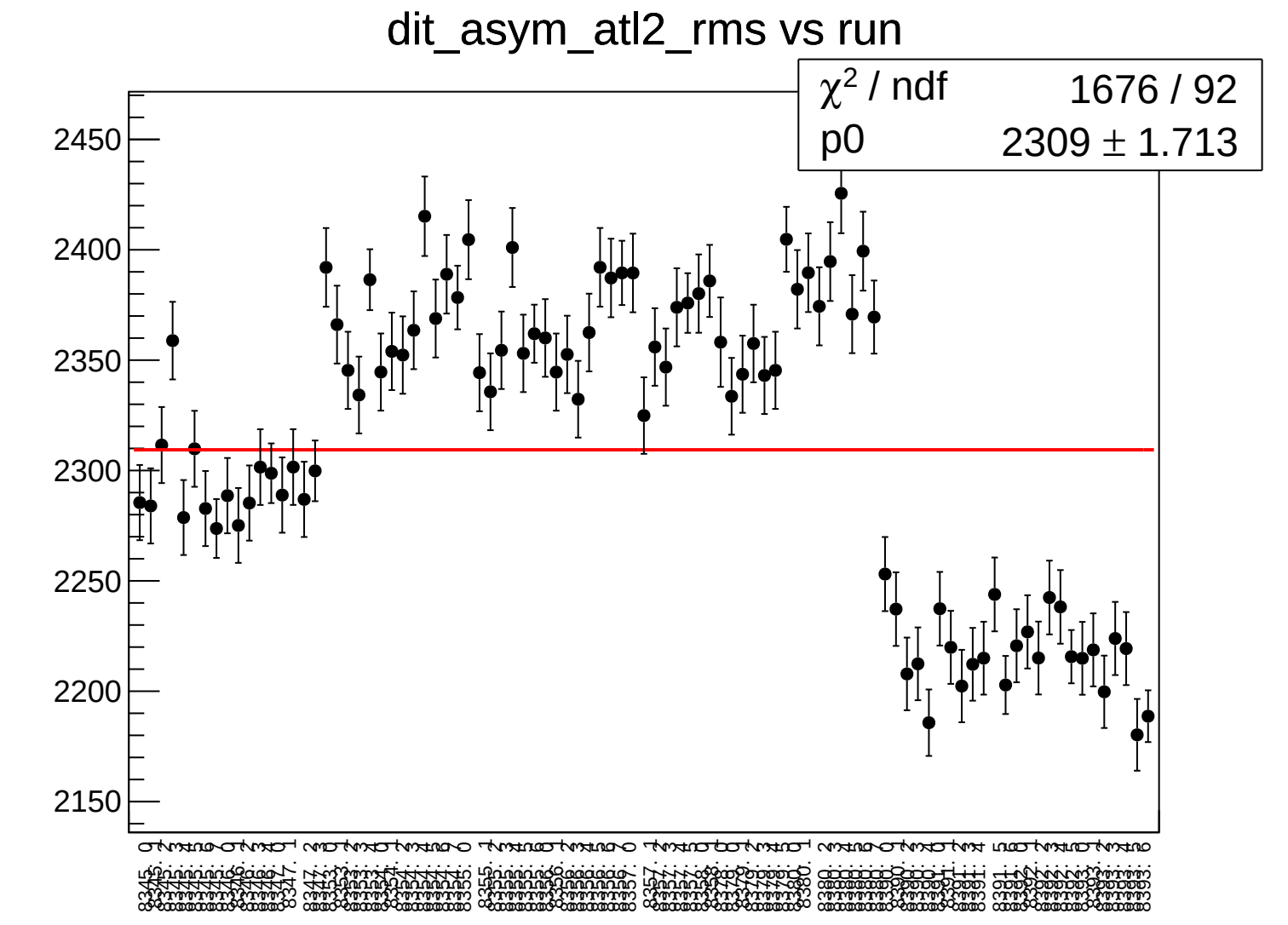

asym_atl2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 92.26 / 92
p0 1.415e+04 ± 9076
pull
Entries 93
Mean −143.8
Std Dev 0

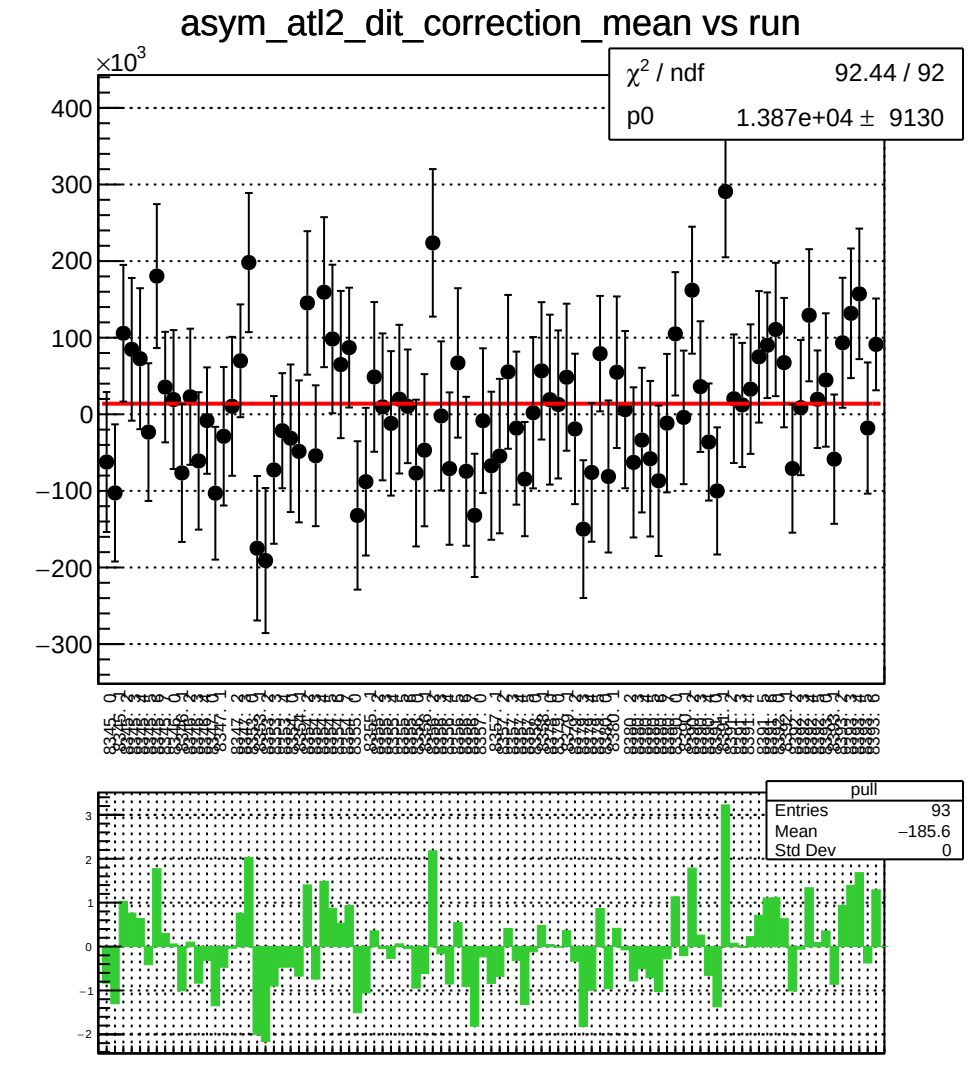

pull1D
Entries 93
Mean −0.02609
Std Dev 0.9957

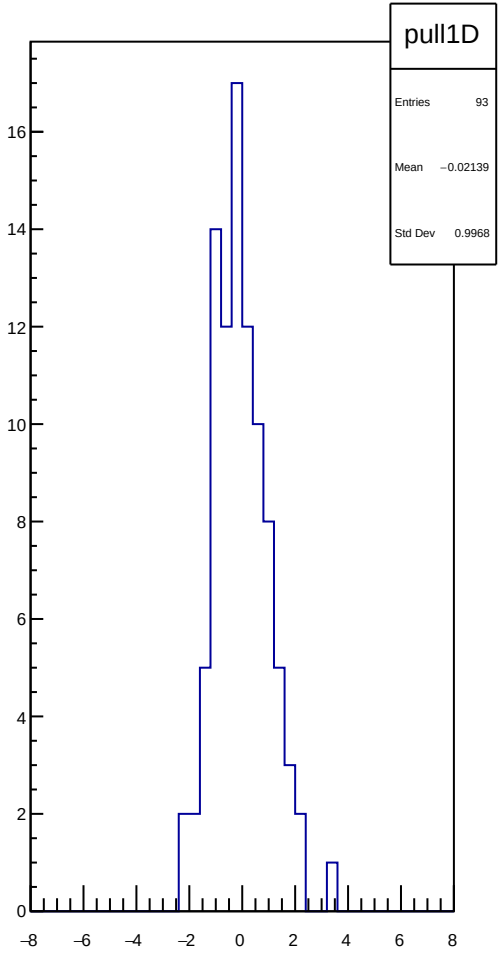

asym_atl2_eigen_cor_correction_rms vs run
χ^2 / ndf 9112 / 92
p0 8634 ± 6.418
10000
9500
9000
8500
8000
7500

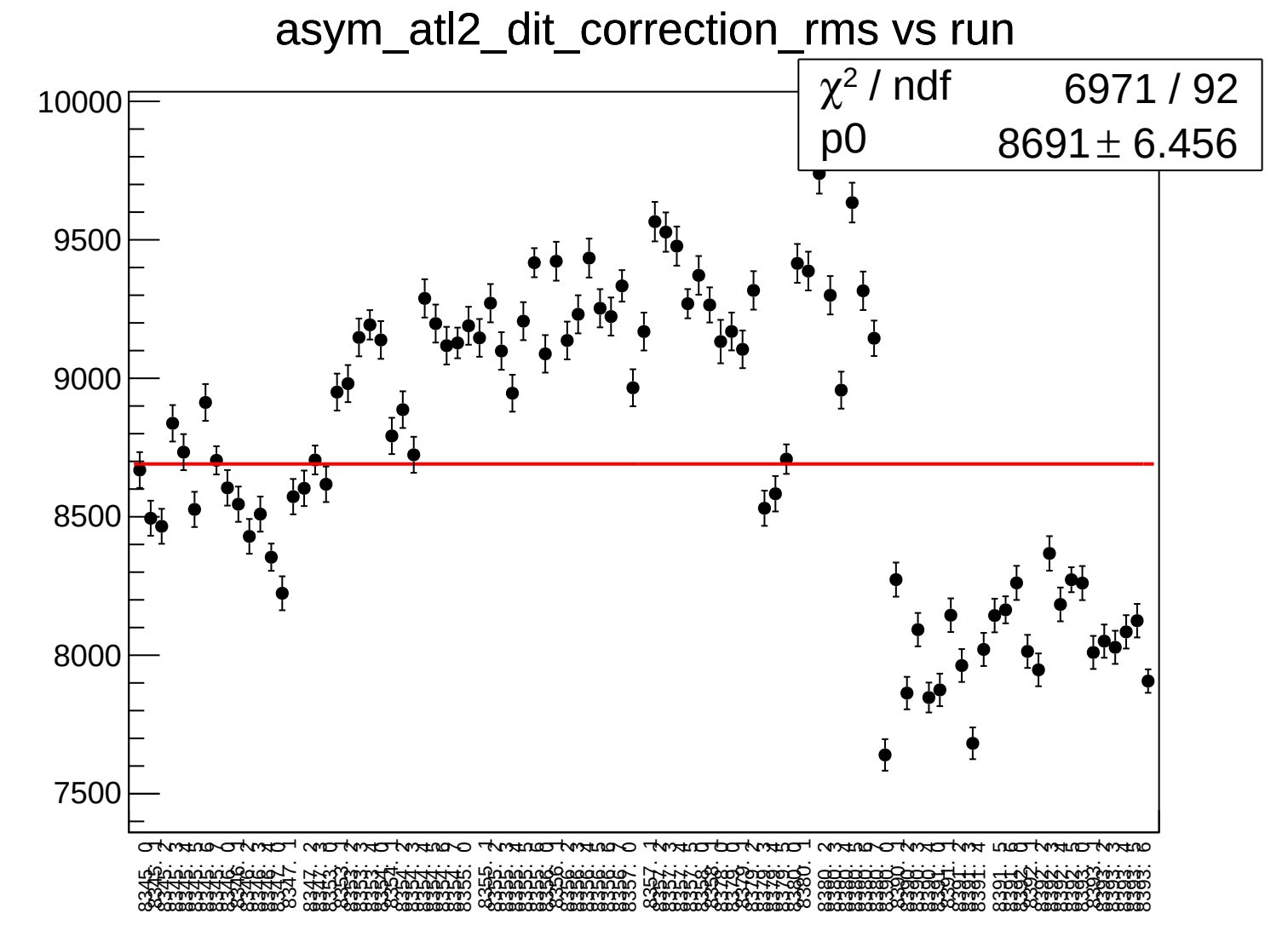

dit_asym_atl2_mean vs run
×10^3
χ^2 / ndf 104.7 / 92
p0 407.1± 2423
100
50
0
−50
−100
pull
Entries 93
Mean −160.6
Std Dev 0
3
2
1
0
−1
−2

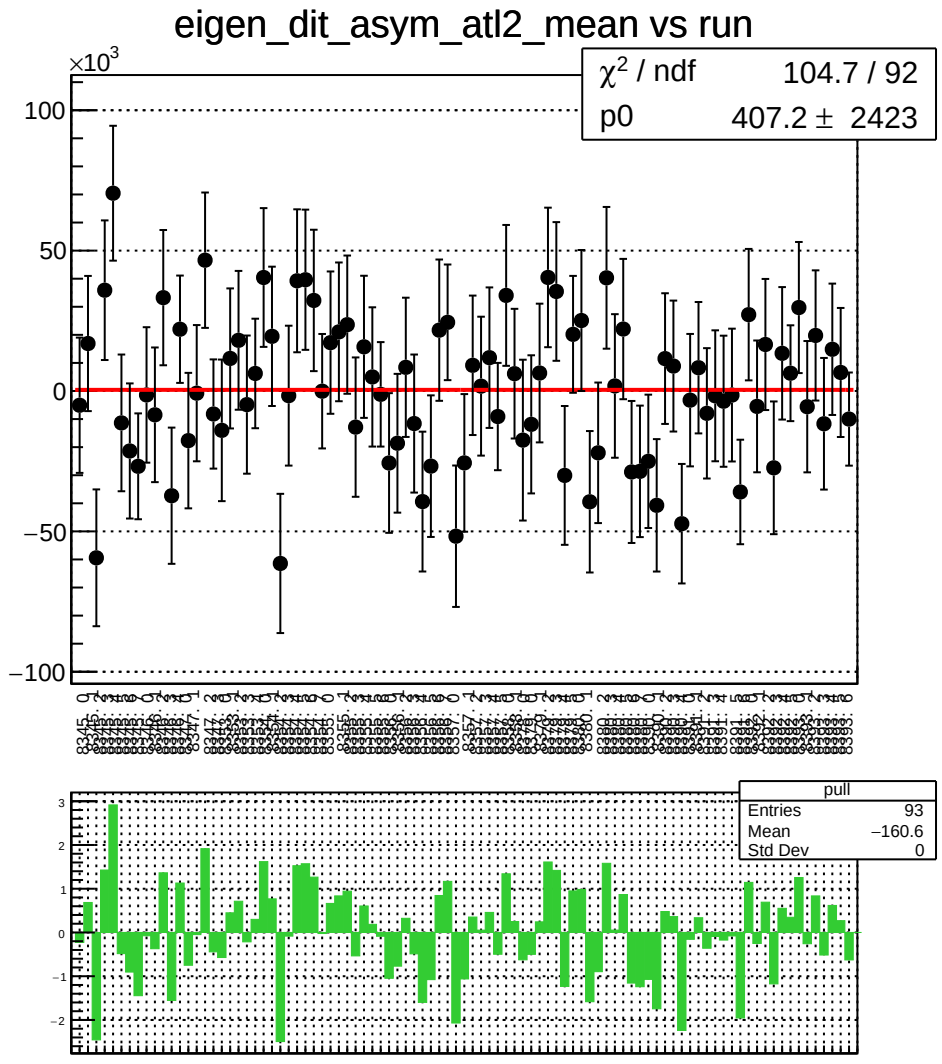

pull1D
Entries 93
Mean 0.01053
Std Dev 1.061
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

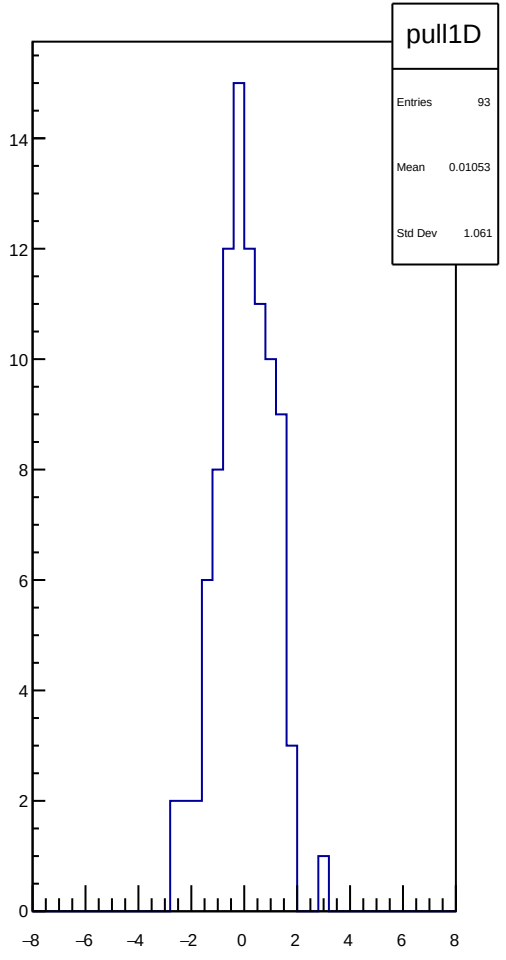

dit_asym_atl2_rms vs run
χ^2 / ndf 1676 / 92
p0 2309 ± 1.713
2450
2400
2350
2300
2250
2200
2150

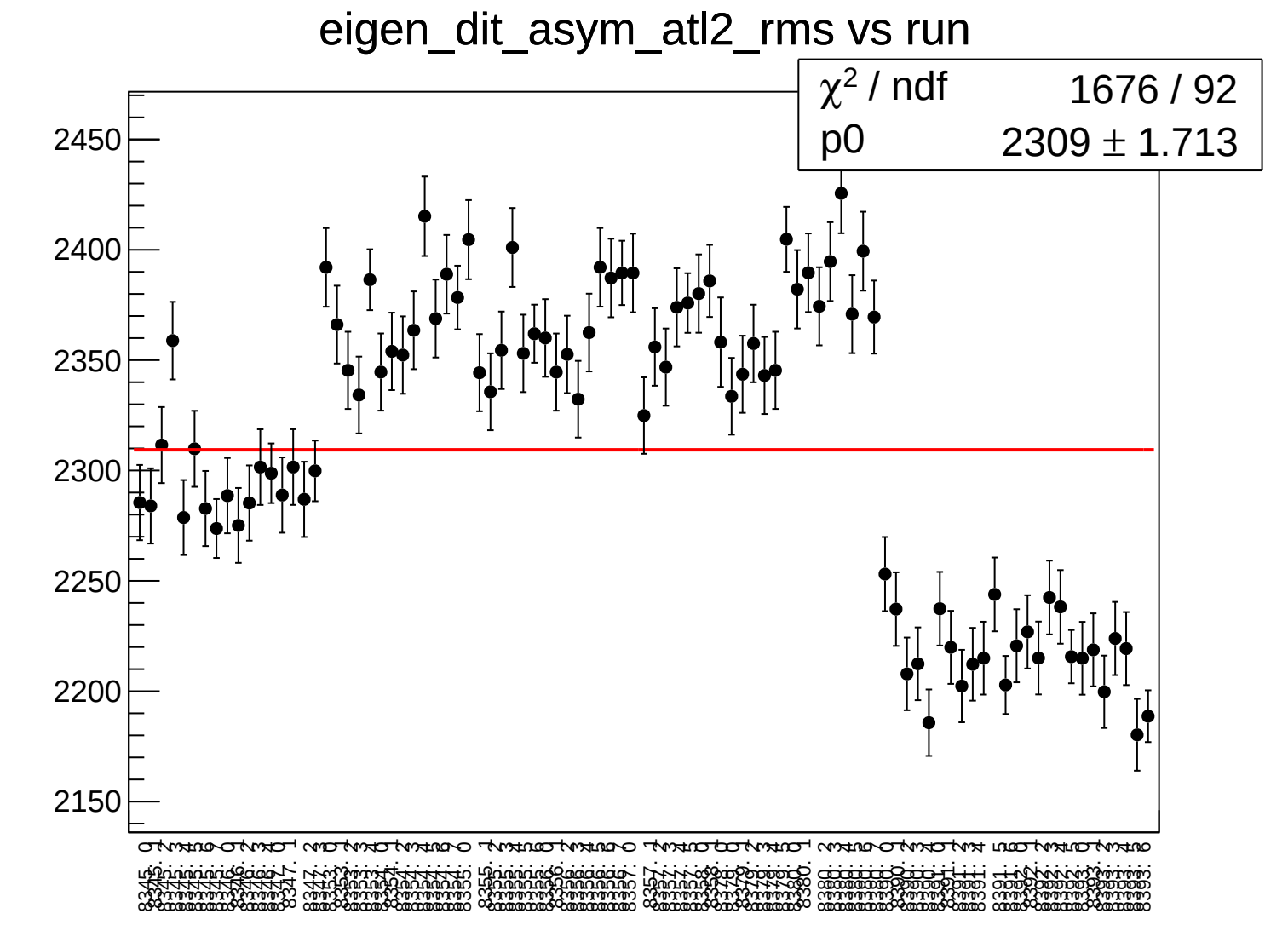

asym_atl2_dit_correction_mean vs run
×10^3
χ² / ndf 92.44 / 92
p0 1.387e+04 ± 9130
pull
Entries 93
Mean −185.6
Std Dev 0

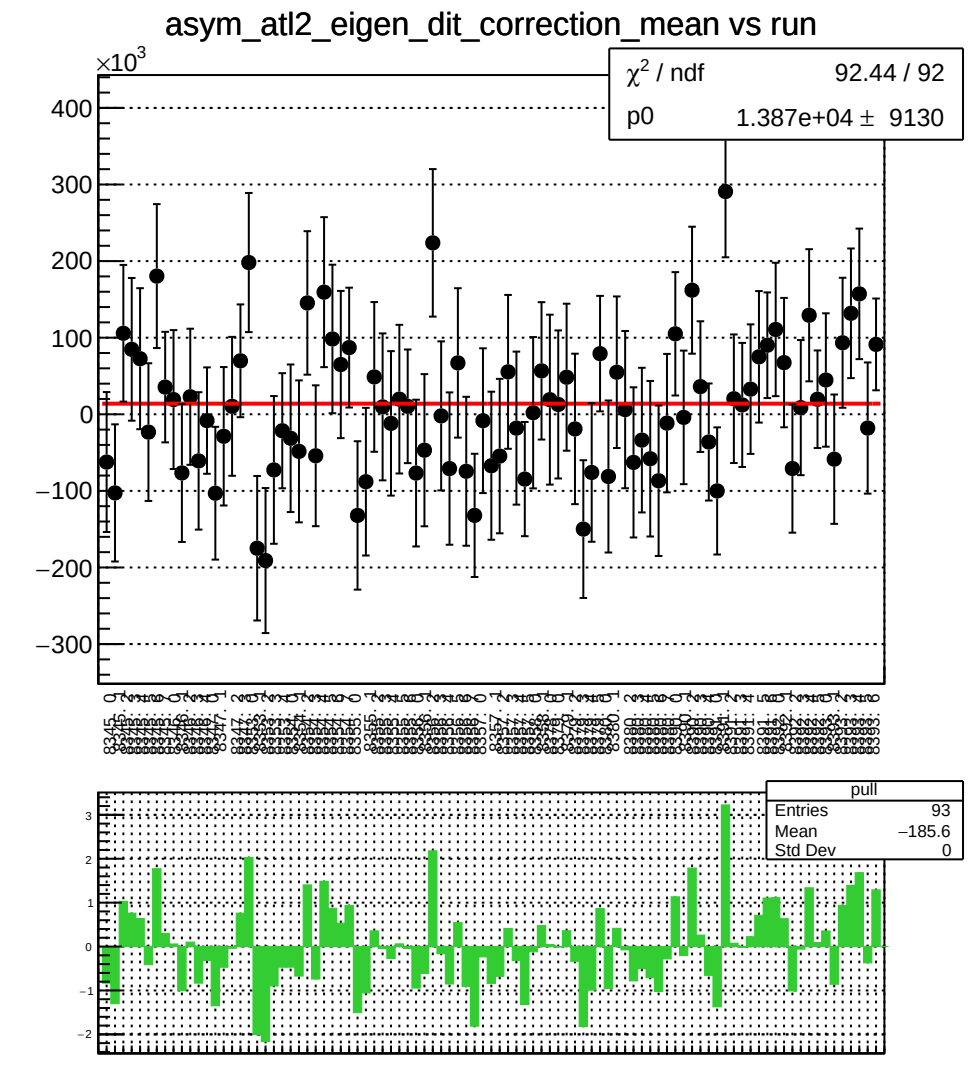

pull1D
Entries 93
Mean −0.02139
Std Dev 0.9968

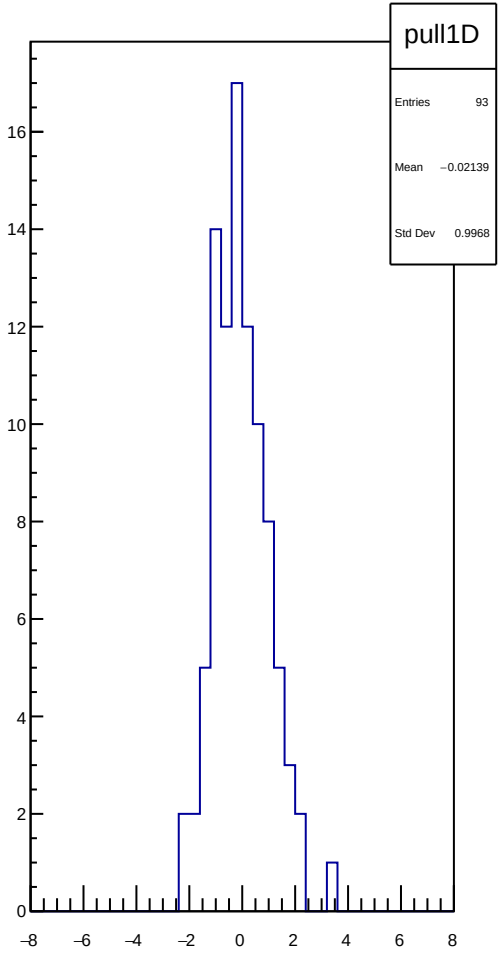

asym_atl2_dit_correction_rms vs run
χ² / ndf 6971 / 92
p0 8691 ± 6.456
10000
9500
9000
8500
8000
7500

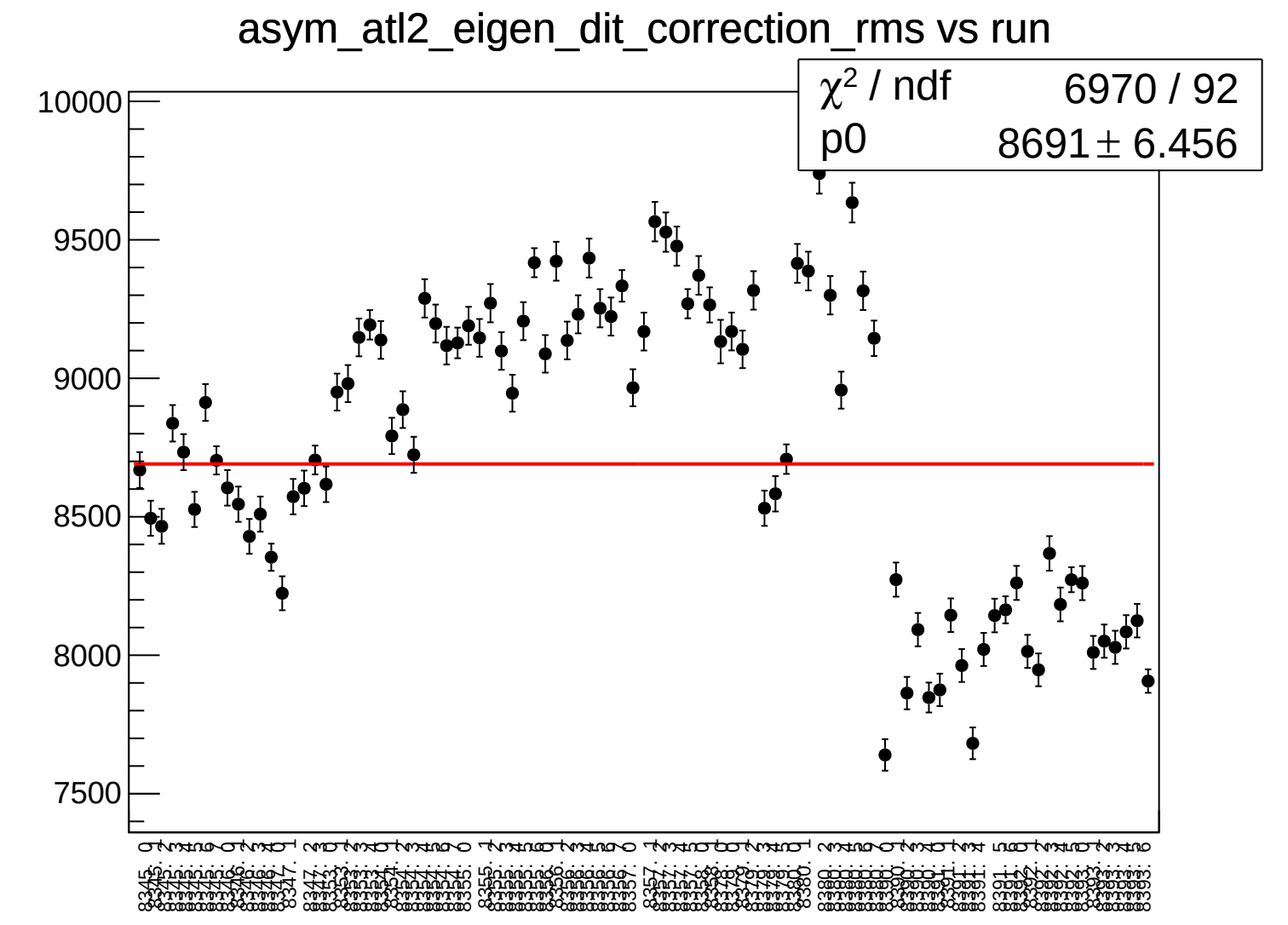

eigen_dit_asym_atl2_mean vs run
×10^3
χ² / ndf 104.7 / 92
p0 407.2 ± 2423
100
50
0
−50
−100
pull
Entries 93
Mean −160.6
Std Dev 0
3
2
1
0
−1
−2

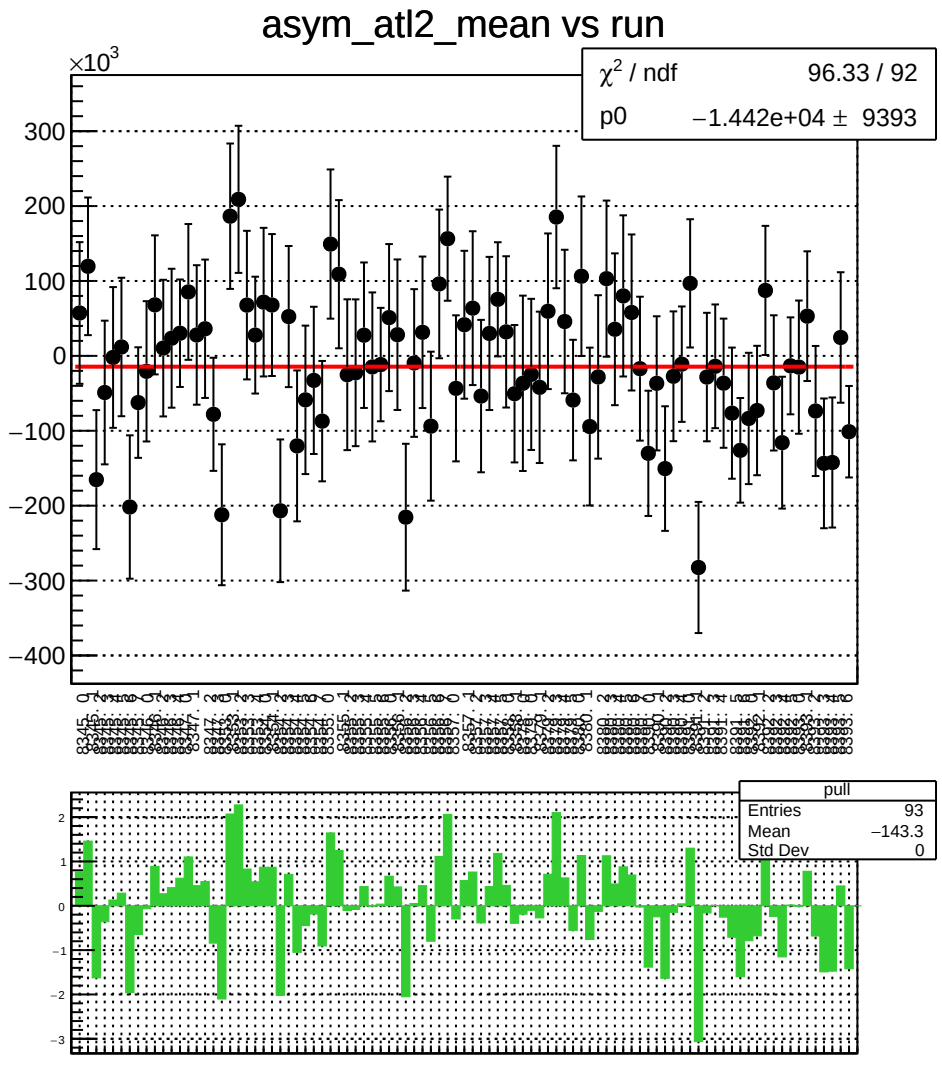

pull1D
Entries 93
Mean 0.01053
Std Dev 1.061
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

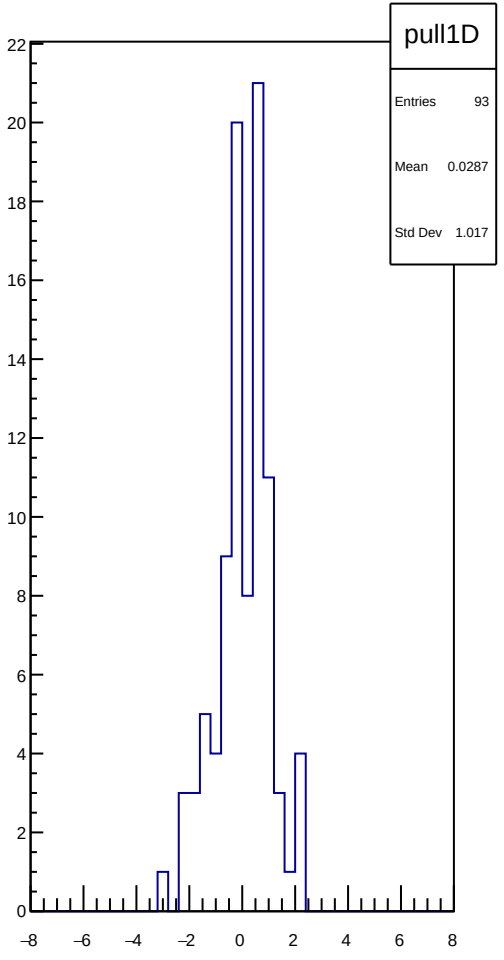

eigen_dit_asym_atl2_rms vs run
χ^2 / ndf 1676 / 92
p0 2309 ± 1.713
2450
2400
2350
2300
2250
2200
2150

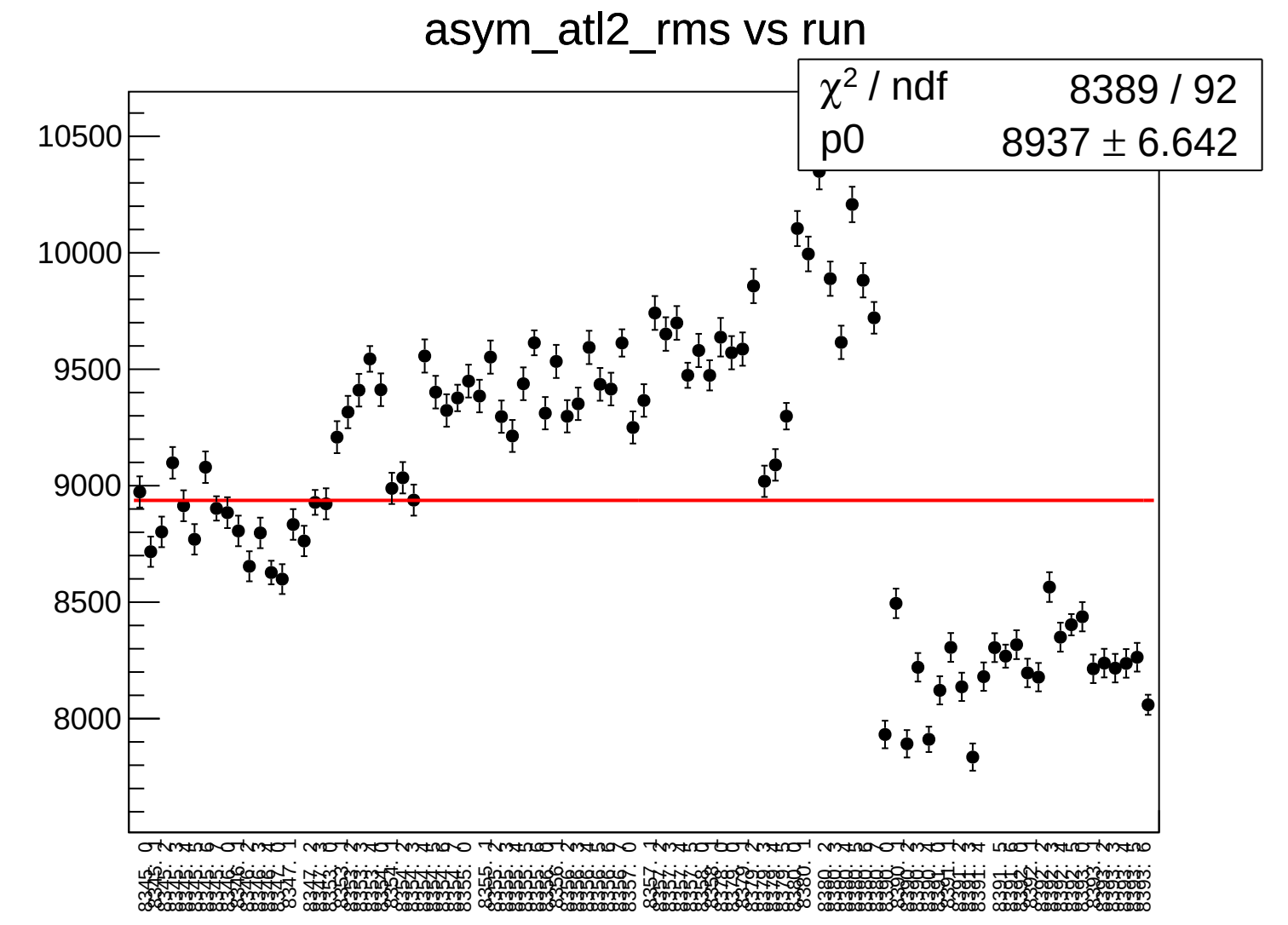

asym_atl2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 92.44 / 92
p0 1.387e+04 ± 9130
pull
Entries 93
Mean −185.6
Std Dev 0

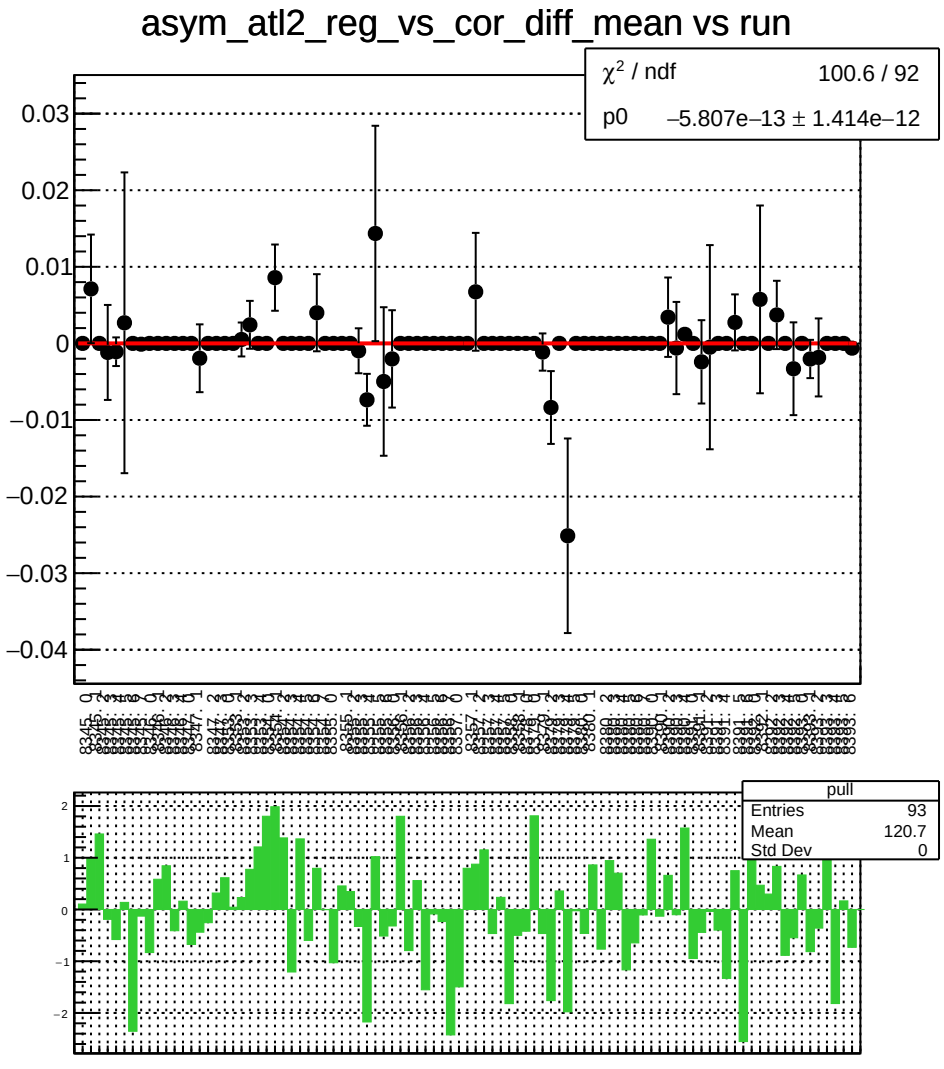

pull1D
Entries 93
Mean −0.02139
Std Dev 0.9968

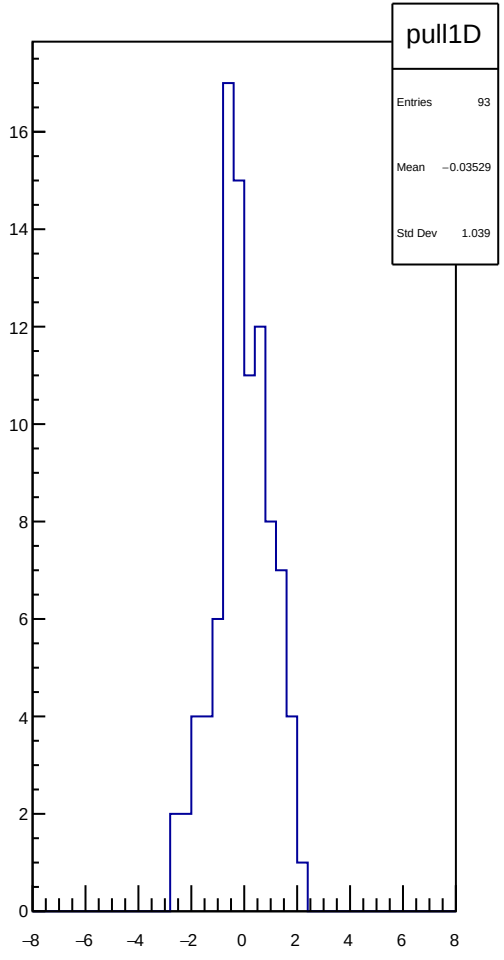

asym_atl2_eigen_dit_correction_rms vs run
χ² / ndf 6970 / 92
p0 8691 ± 6.456
10000
9500
9000
8500
8000
7500

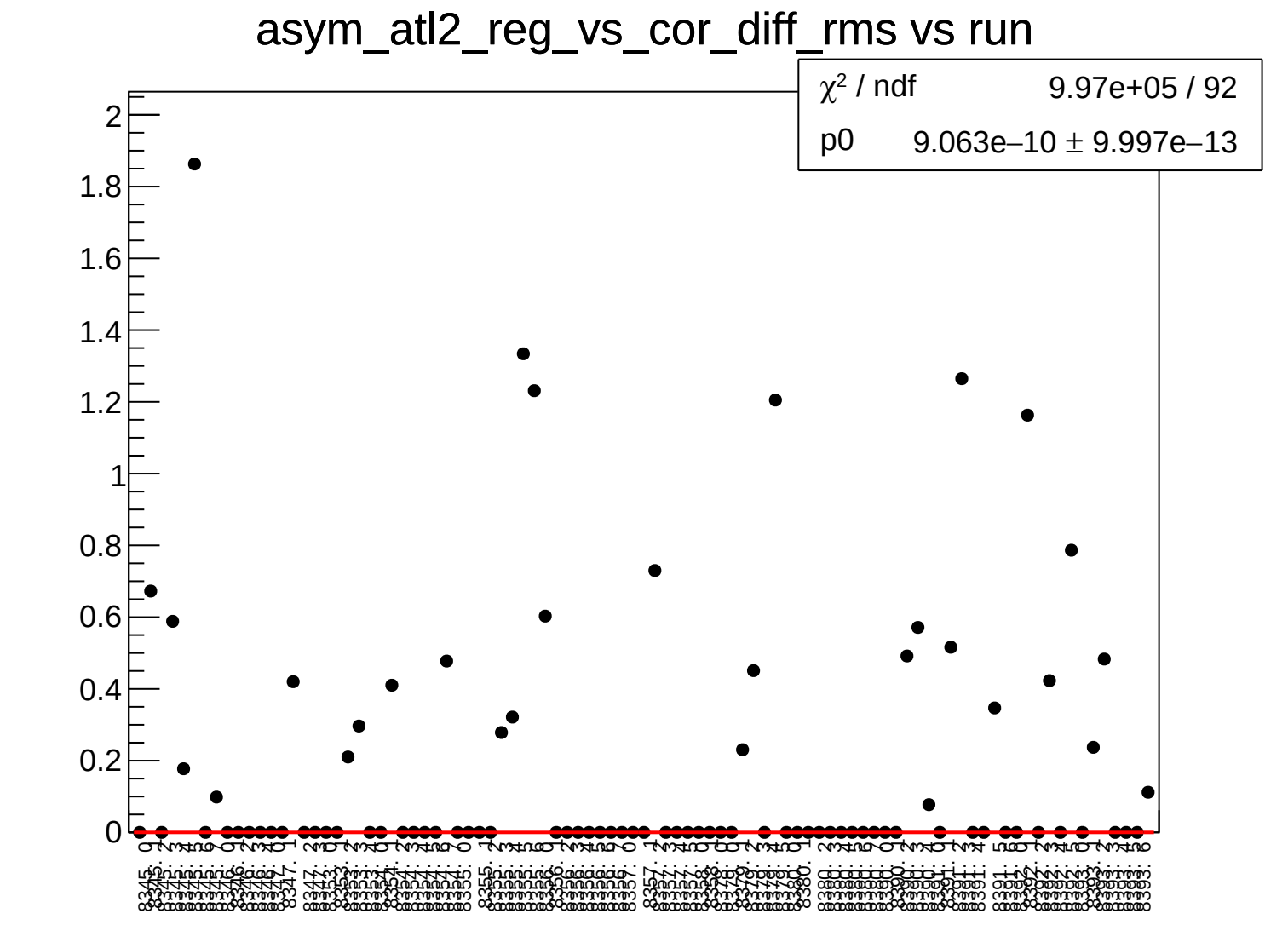

asym_atl2_mean vs run
×10^3
χ² / ndf 96.33 / 92
p0 −1.442e+04 ± 9393
300
200
100
0
−100
−200
−300
−400
pull
Entries 93
Mean −143.3
Std Dev 0
2
1
0
−1
−2
−3

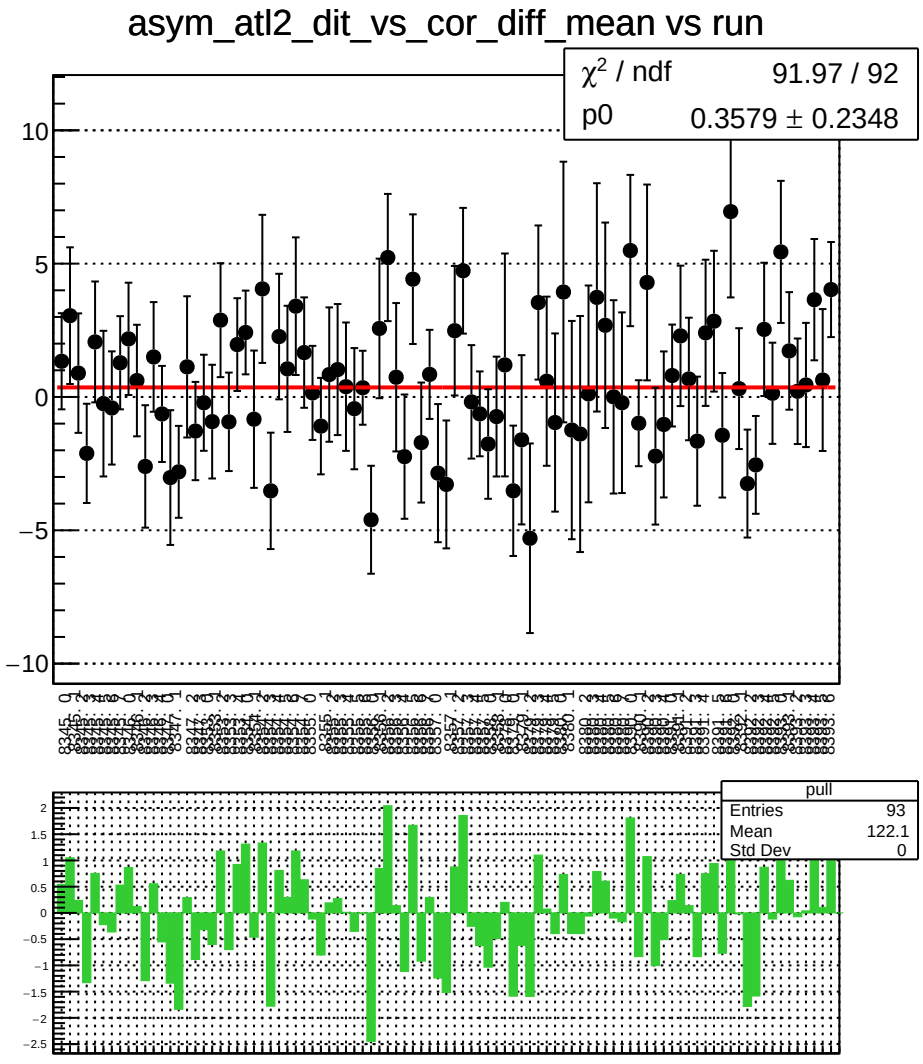

pull1D
Entries 93
Mean 0.0287
Std Dev 1.017
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

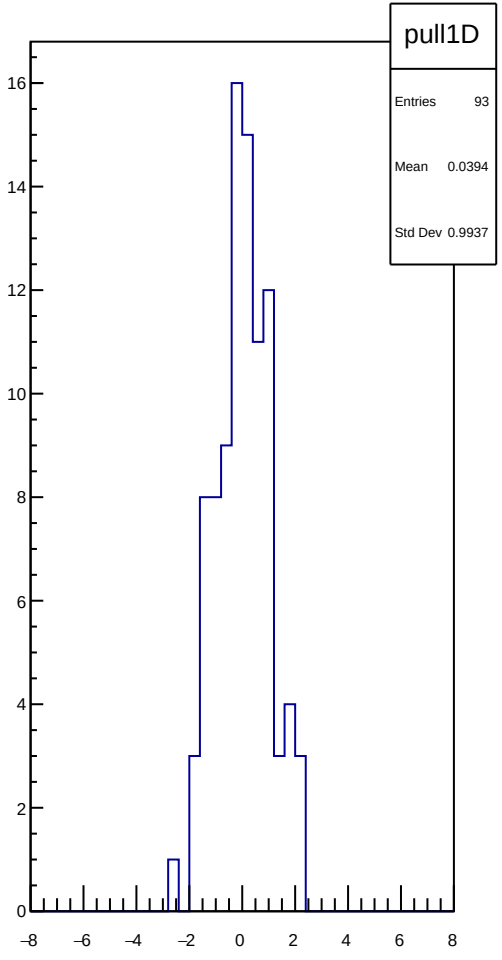

asym_atl2_rms vs run
χ² / ndf 8389 / 92
p0 8937 ± 6.642
10500
10000
9500
9000
8500
8000

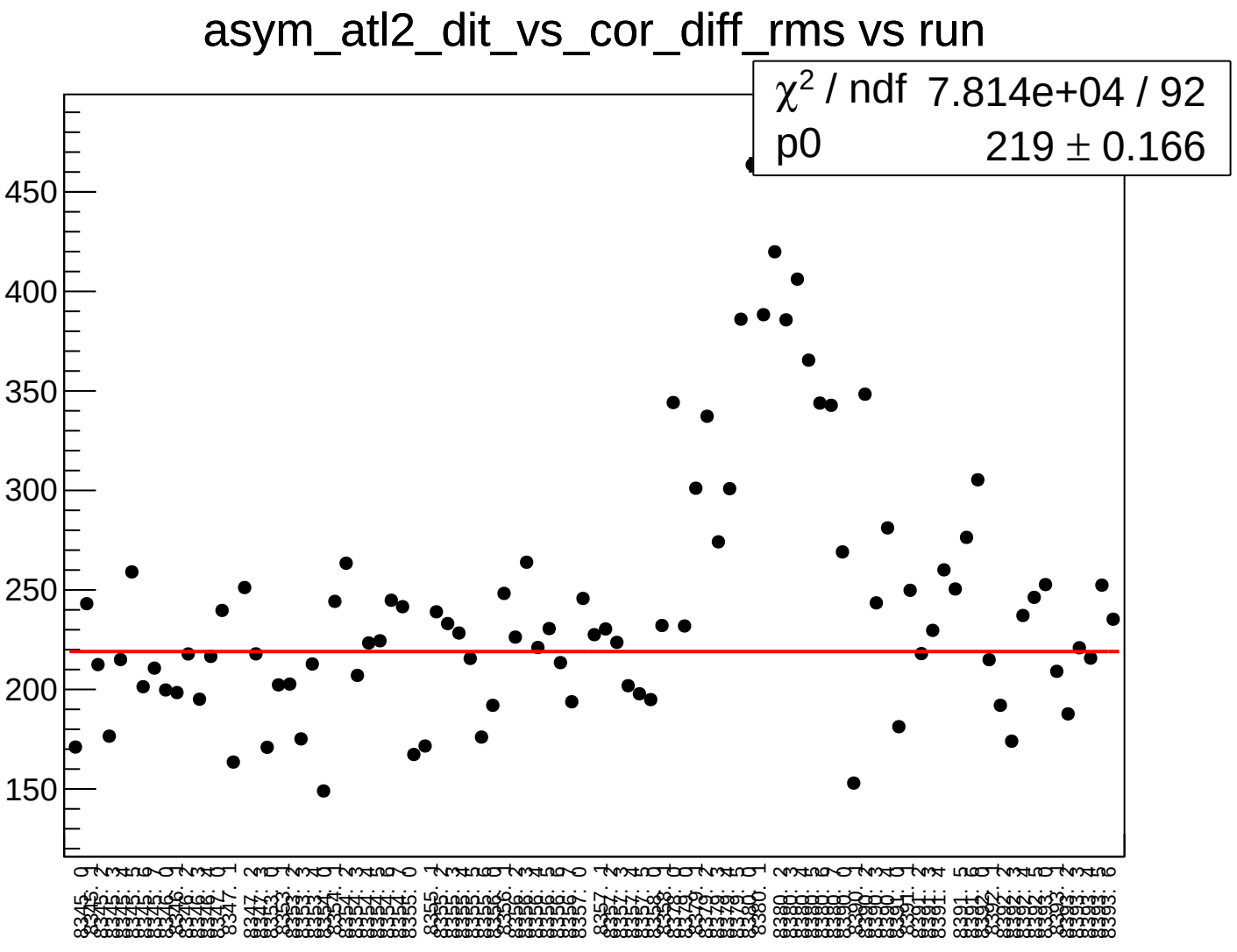

asym_atl2_reg_vs_cor_diff_mean vs run
χ² / ndf 100.6 / 92
p0 −5.807e−13 ± 1.414e−12
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 93
Mean 120.7
Std Dev 0
2
1
0
−1
−2

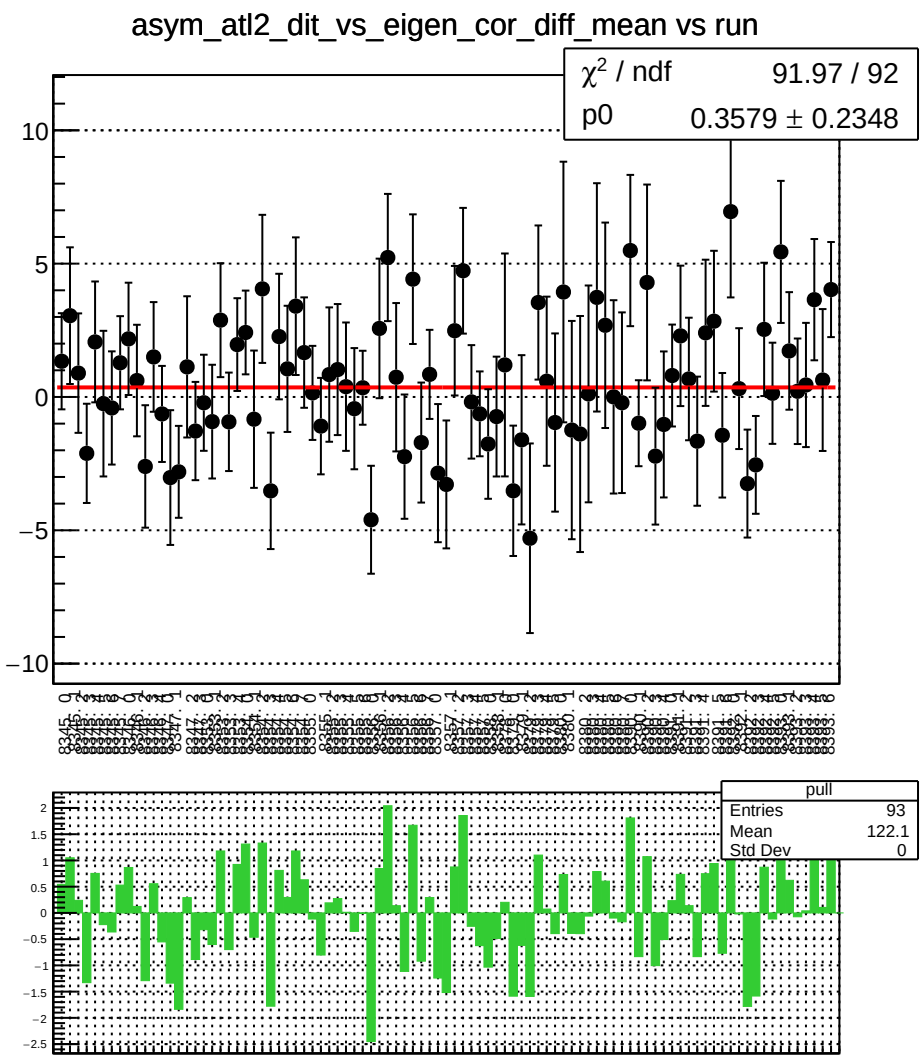

pull1D
Entries 93
Mean −0.03529
Std Dev 1.039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

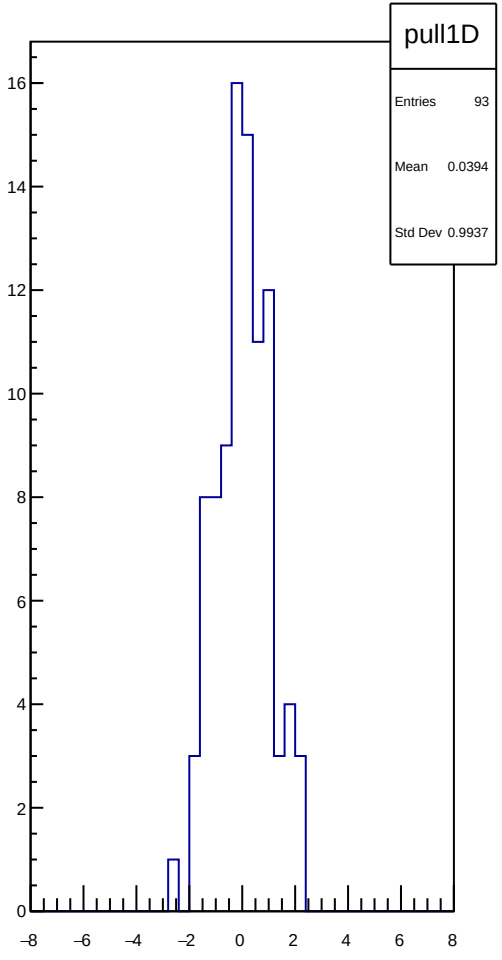

asym_atl2_reg_vs_cor_diff_rms vs run
χ² / ndf 9.97e+05 / 92
p0 9.063e−10 ± 9.997e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

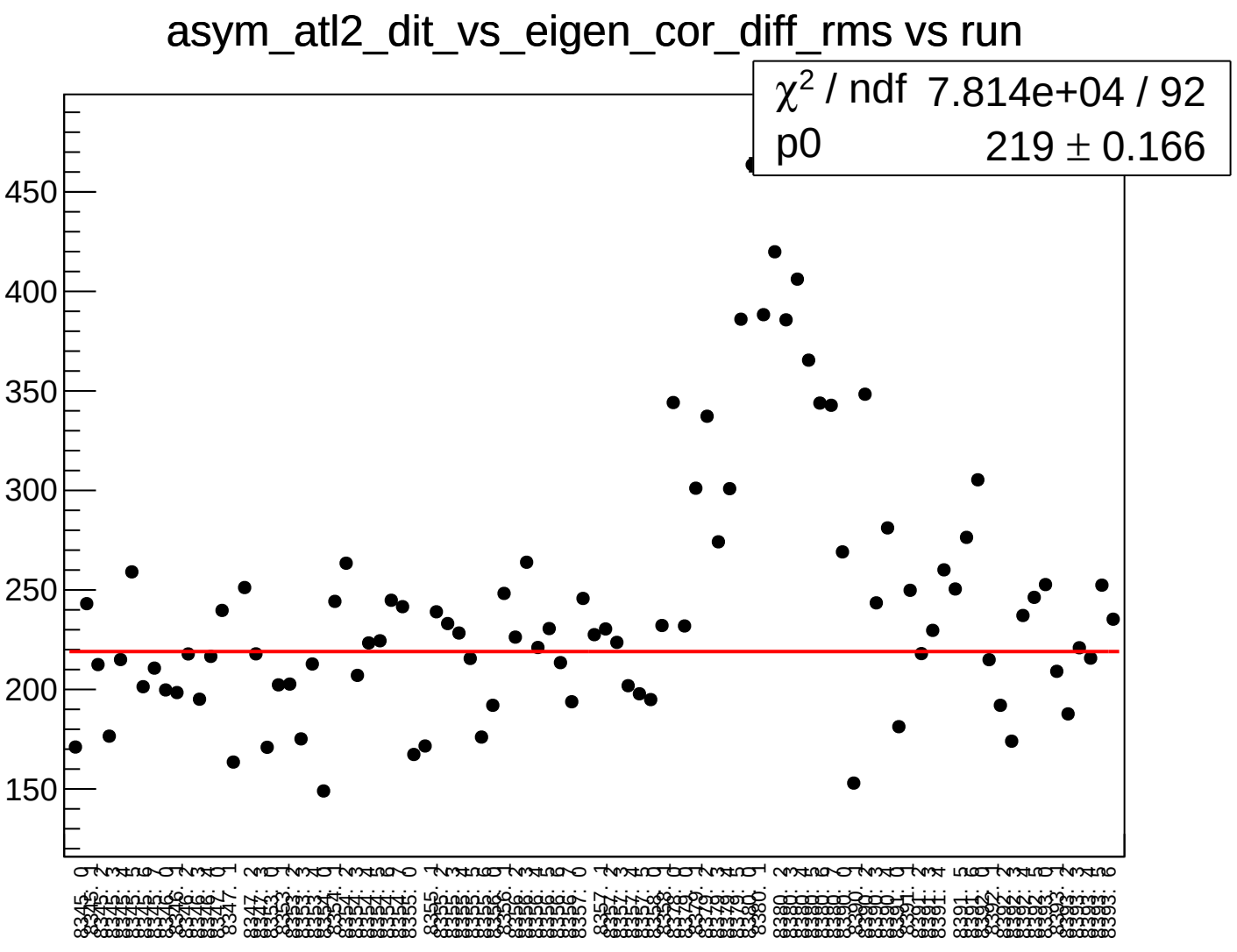

asym_atl2_dit_vs_cor_diff_mean vs run
χ² / ndf 91.97 / 92
p0 0.3579 ± 0.2348
pull
Entries 93
Mean 122.1
Std Dev 0

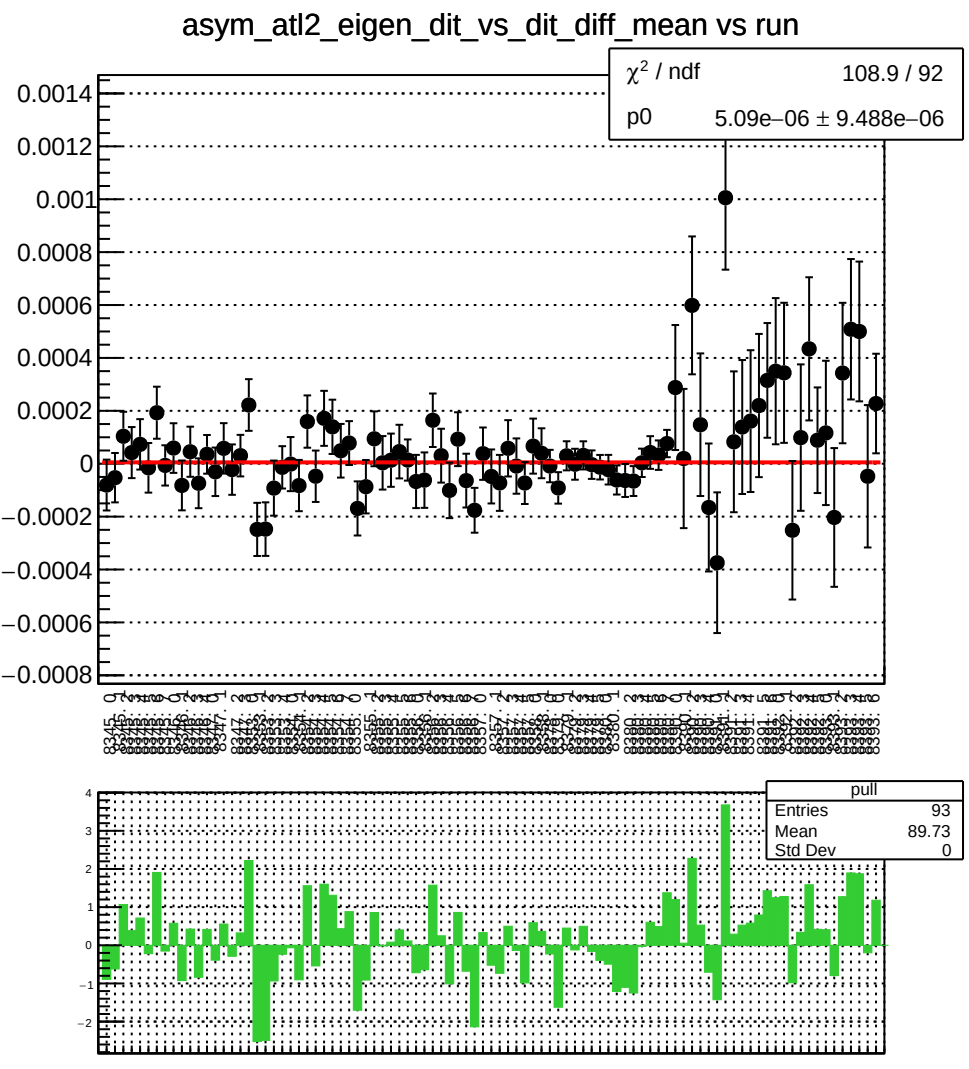

pull1D
Entries 93
Mean 0.0394
Std Dev 0.9937

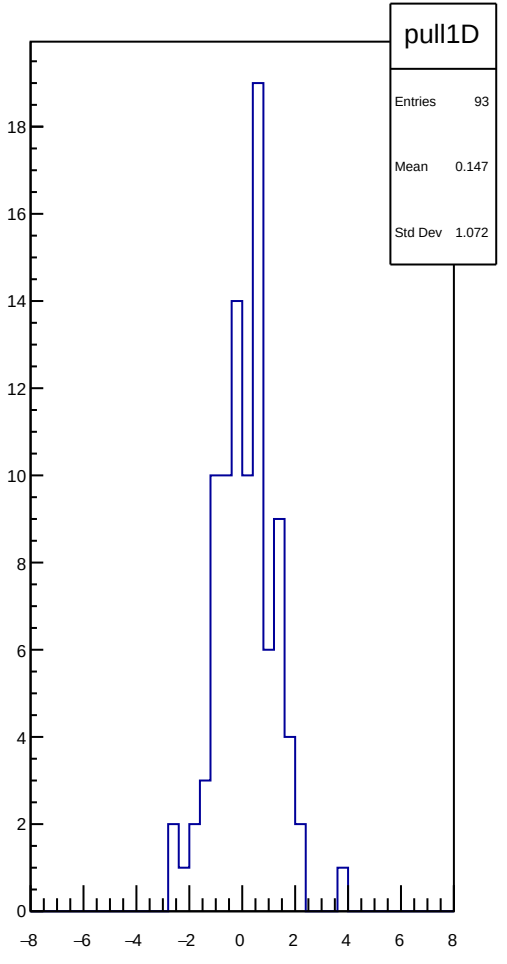

asym_atl2_dit_vs_cor_diff_rms vs run
χ^2 / ndf 7.814e+04 / 92
p0 219 ± 0.166
450
400
350
300
250
200
150

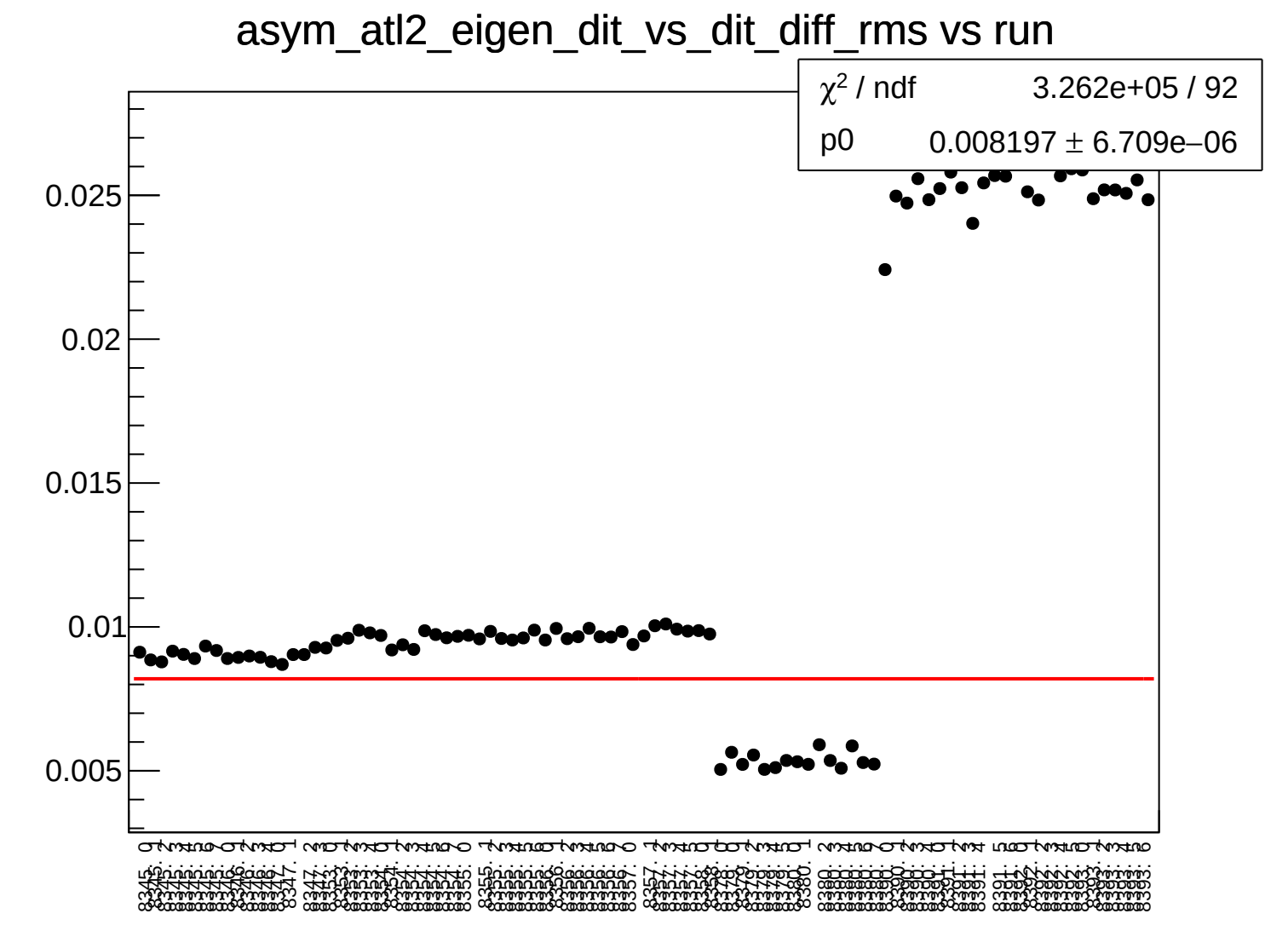

asym_atl2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.97 / 92
p0 0.3579 ± 0.2348
pull
Entries 93
Mean 122.1
Std Dev 0

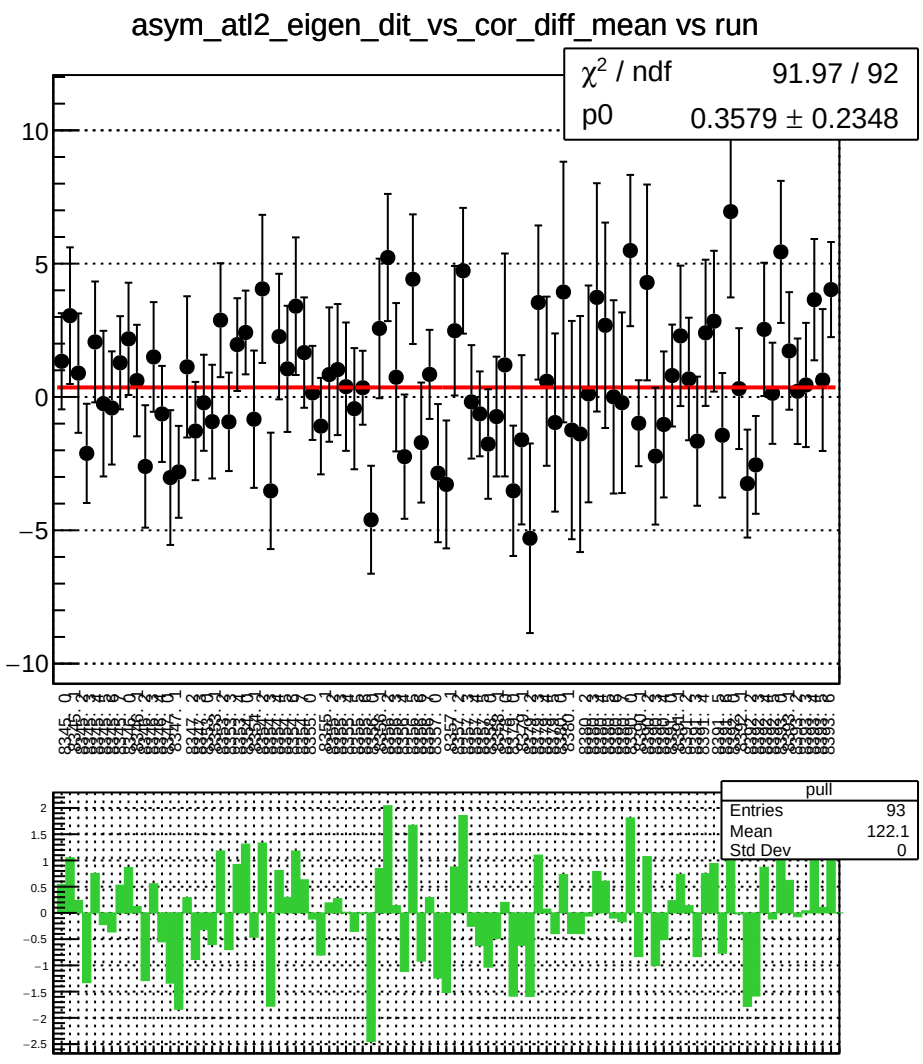

pull1D
Entries 93
Mean 0.0394
Std Dev 0.9937

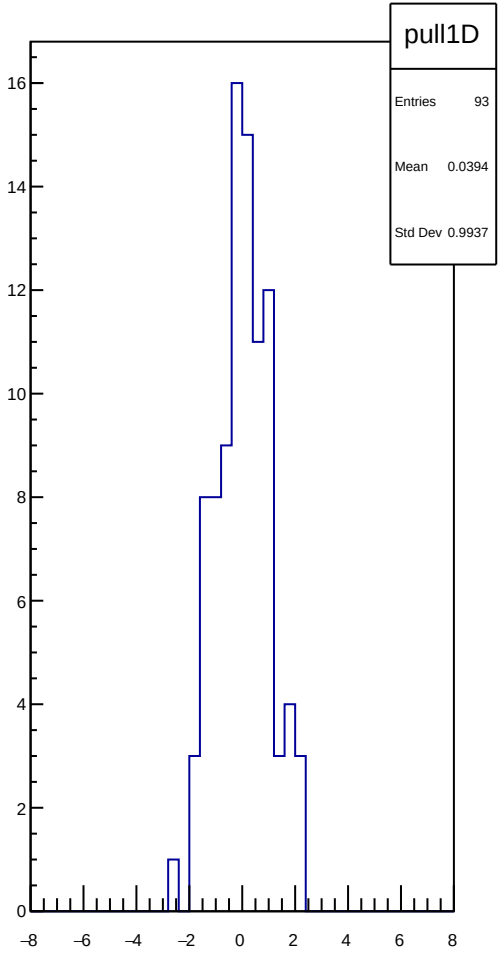

asym_atl2_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 7.814e+04 / 92
p0 219 ± 0.166
450
400
350
300
250
200
150

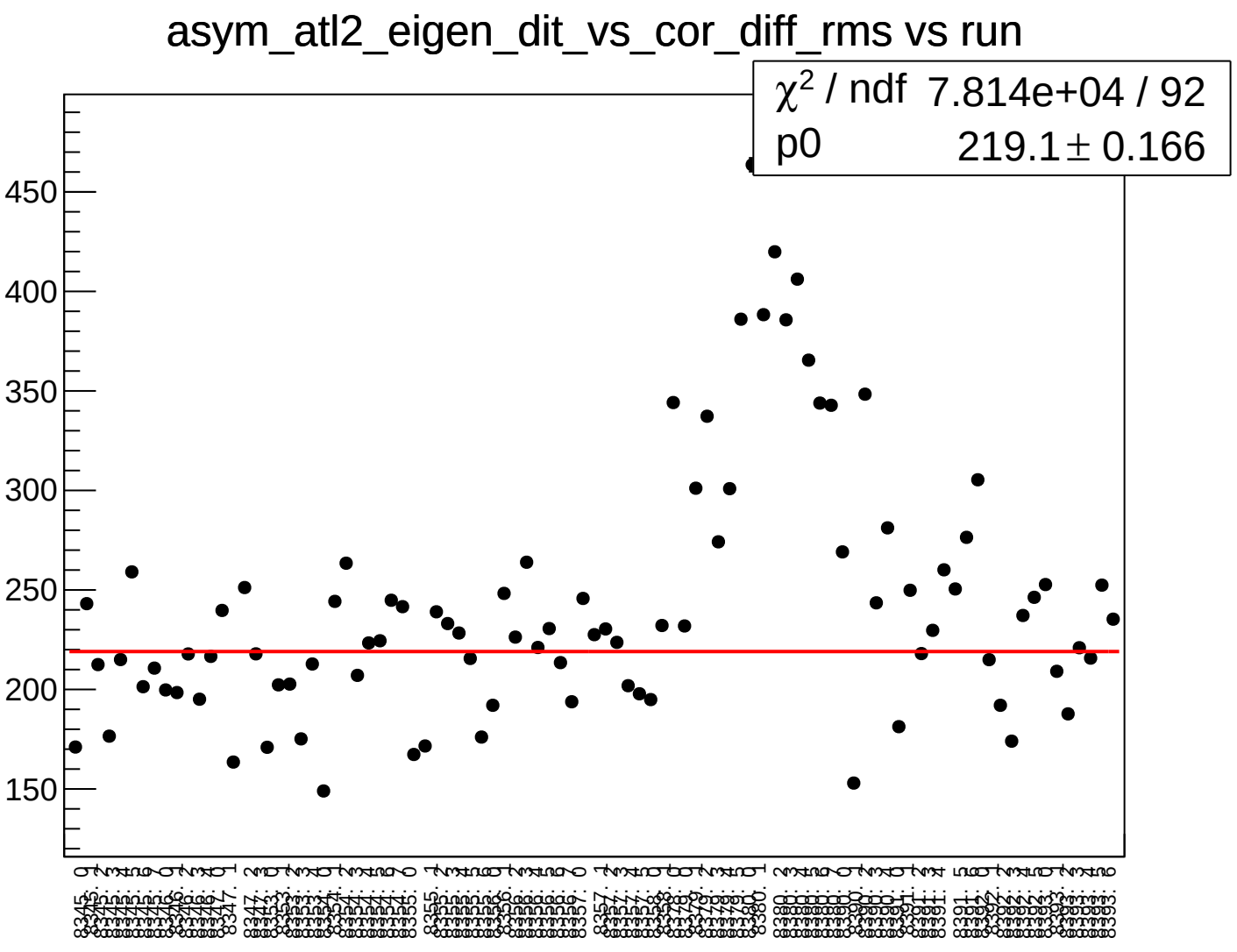

asym_atl2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 108.9 / 92
p0 5.09e−06 ± 9.488e−06
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
pull
Entries 93
Mean 89.73
Std Dev 0
4
3
2
1
0
−1
−2

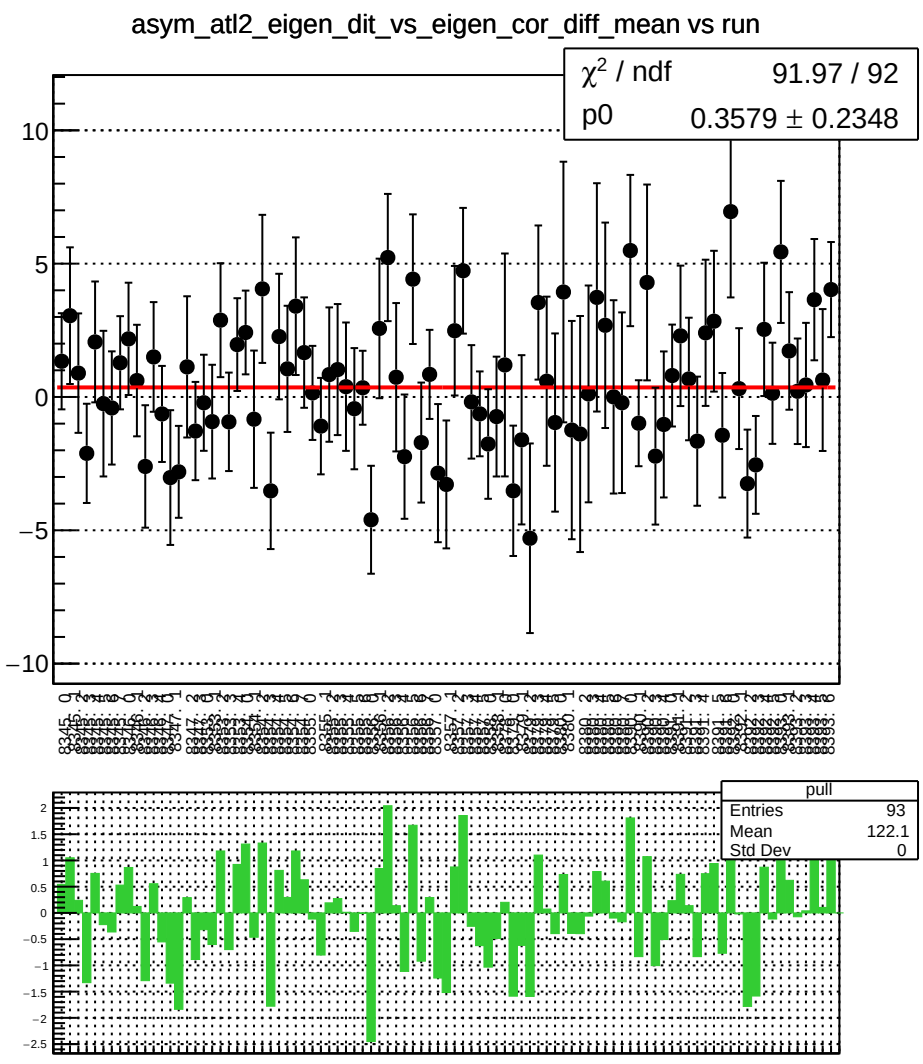

pull1D
Entries 93
Mean 0.147
Std Dev 1.072
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

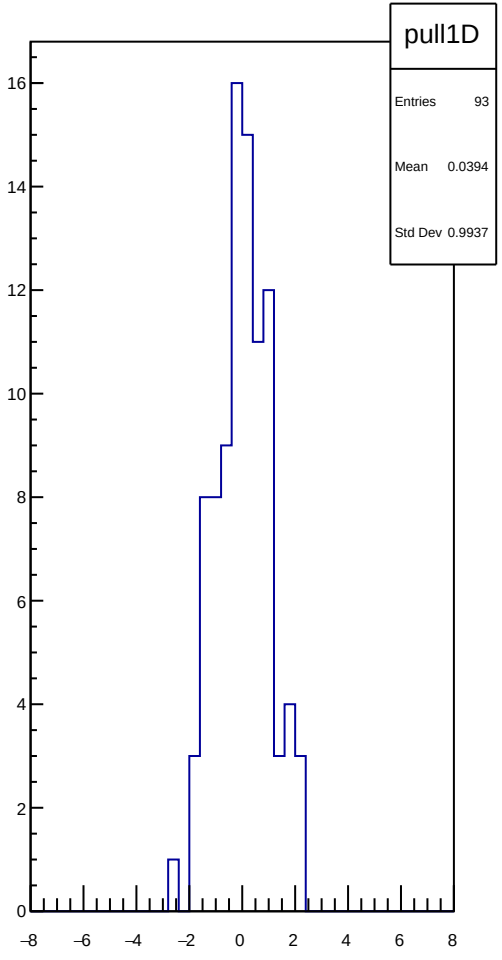

asym_atl2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.262e+05 / 92
p0 0.008197 ± 6.709e−06
0.025
0.02
0.015
0.01
0.005

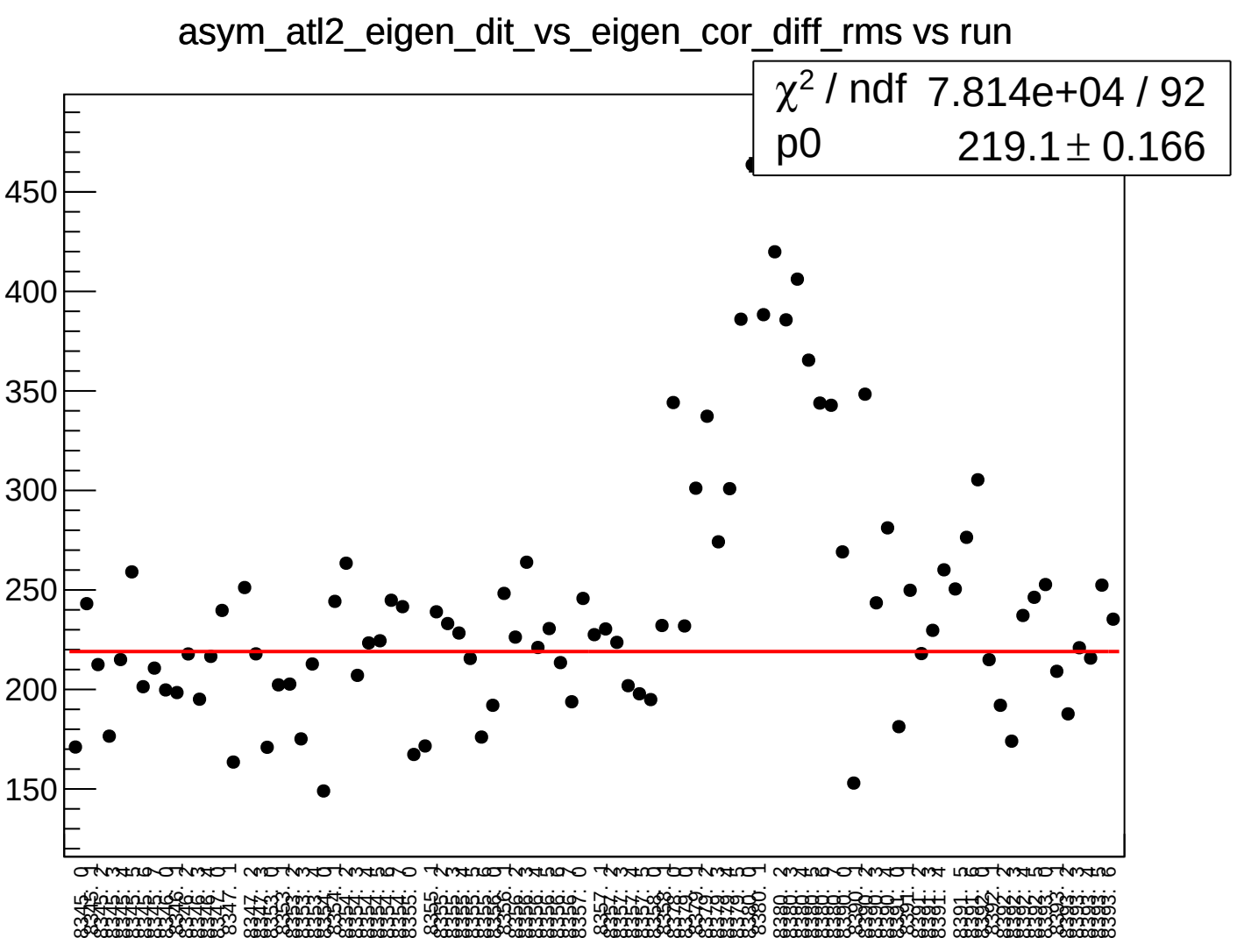

asym_atl2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.97 / 92
p0 0.3579 ± 0.2348
pull
Entries 93
Mean 122.1
Std Dev 0

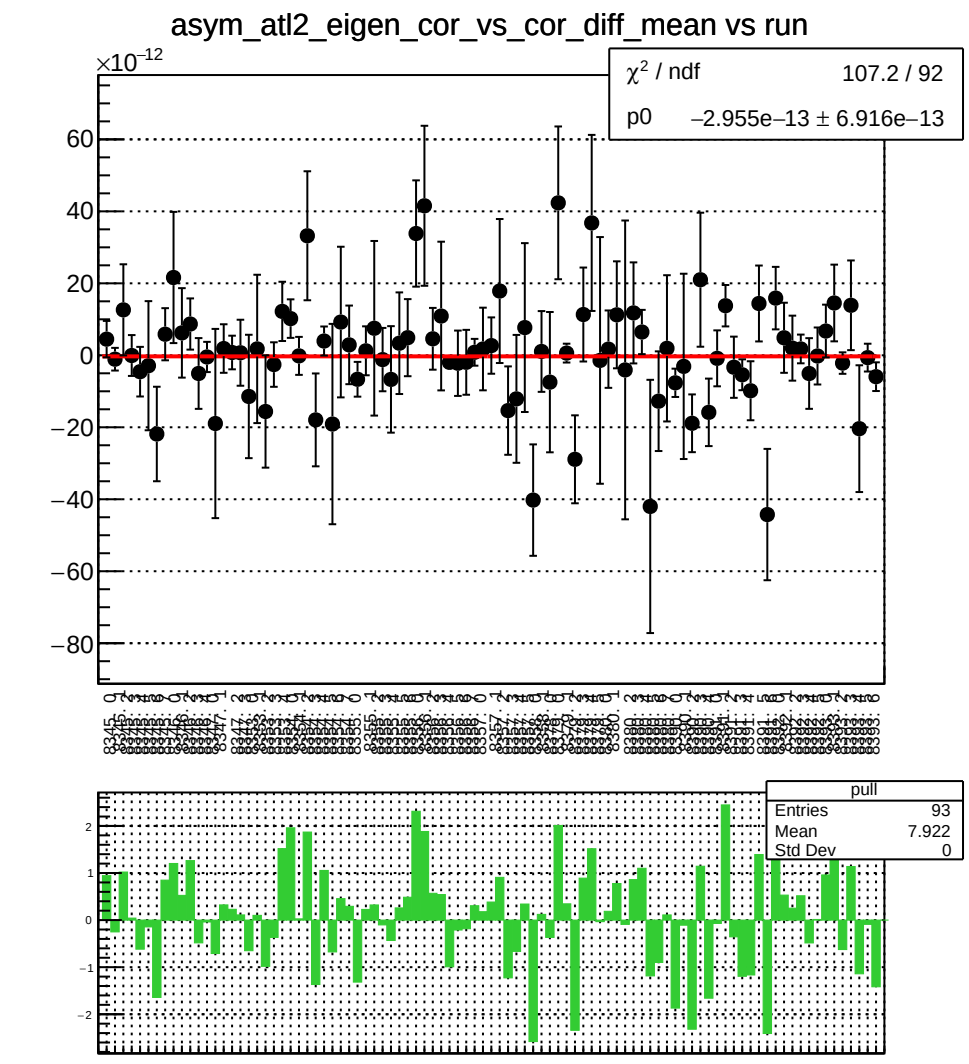

pull1D
Entries 93
Mean 0.0394
Std Dev 0.9937

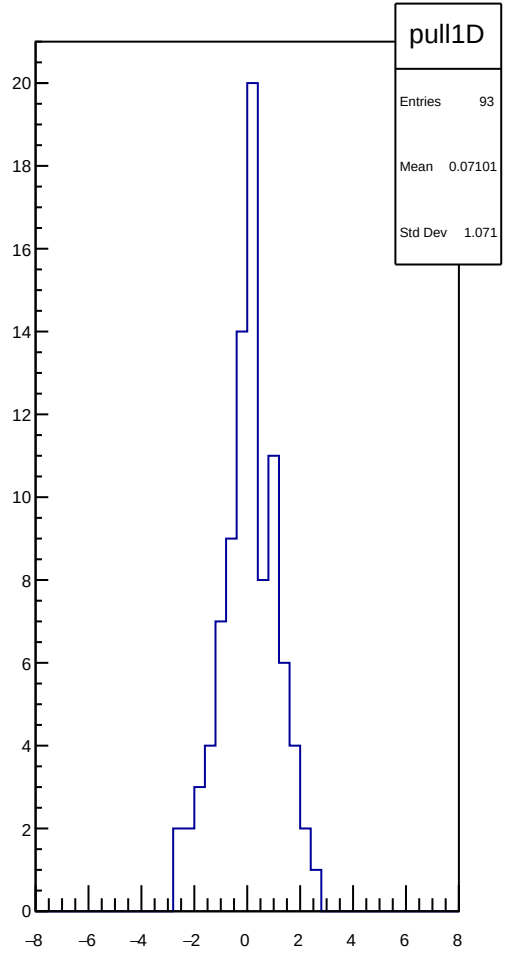

asym_atl2_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 7.814e+04 / 92
p0 219.1 ± 0.166
450
400
350
300
250
200
150

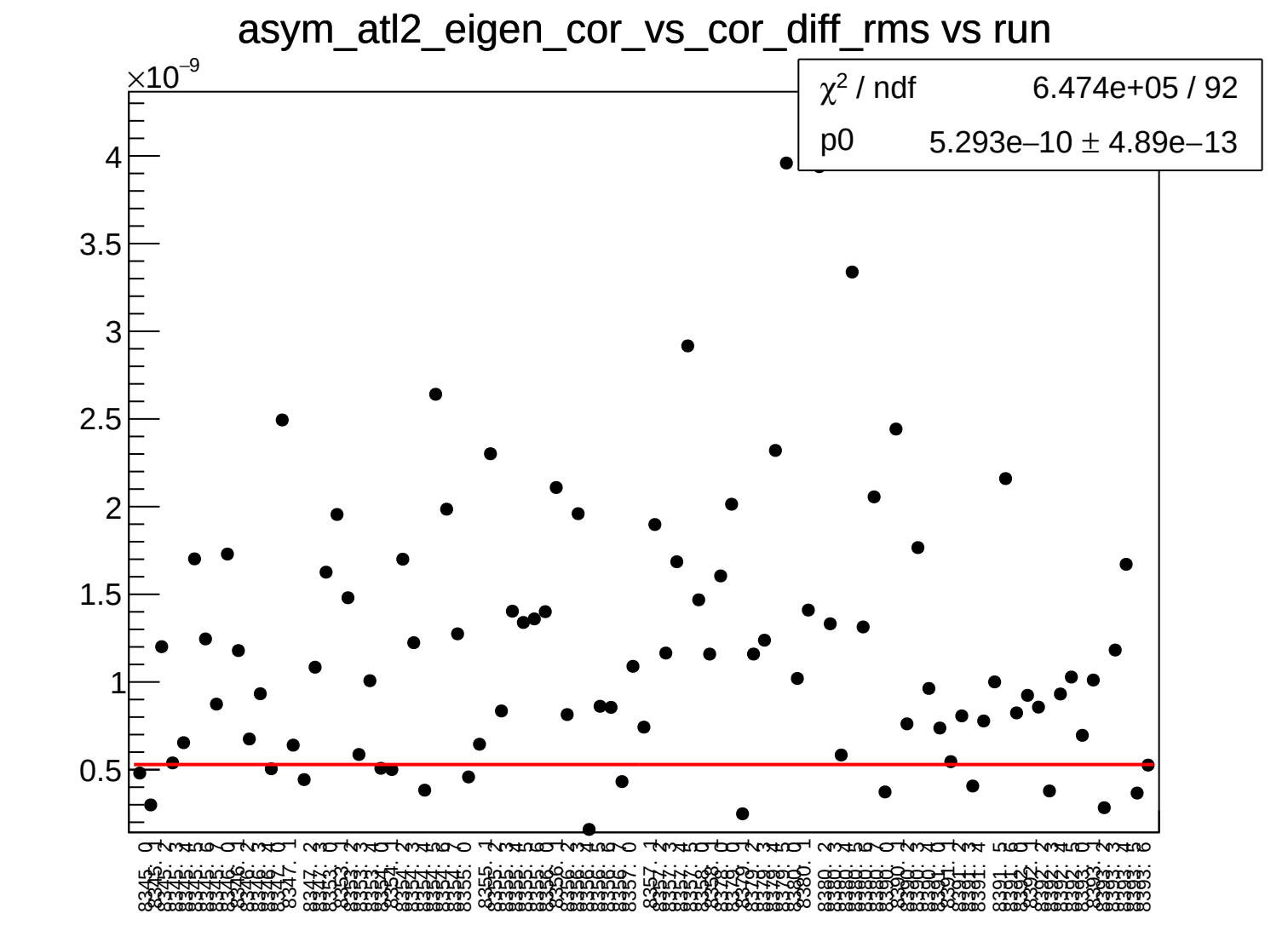

asym_atl2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.97 / 92
p0 0.3579 ± 0.2348
pull
Entries 93
Mean 122.1
Std Dev 0

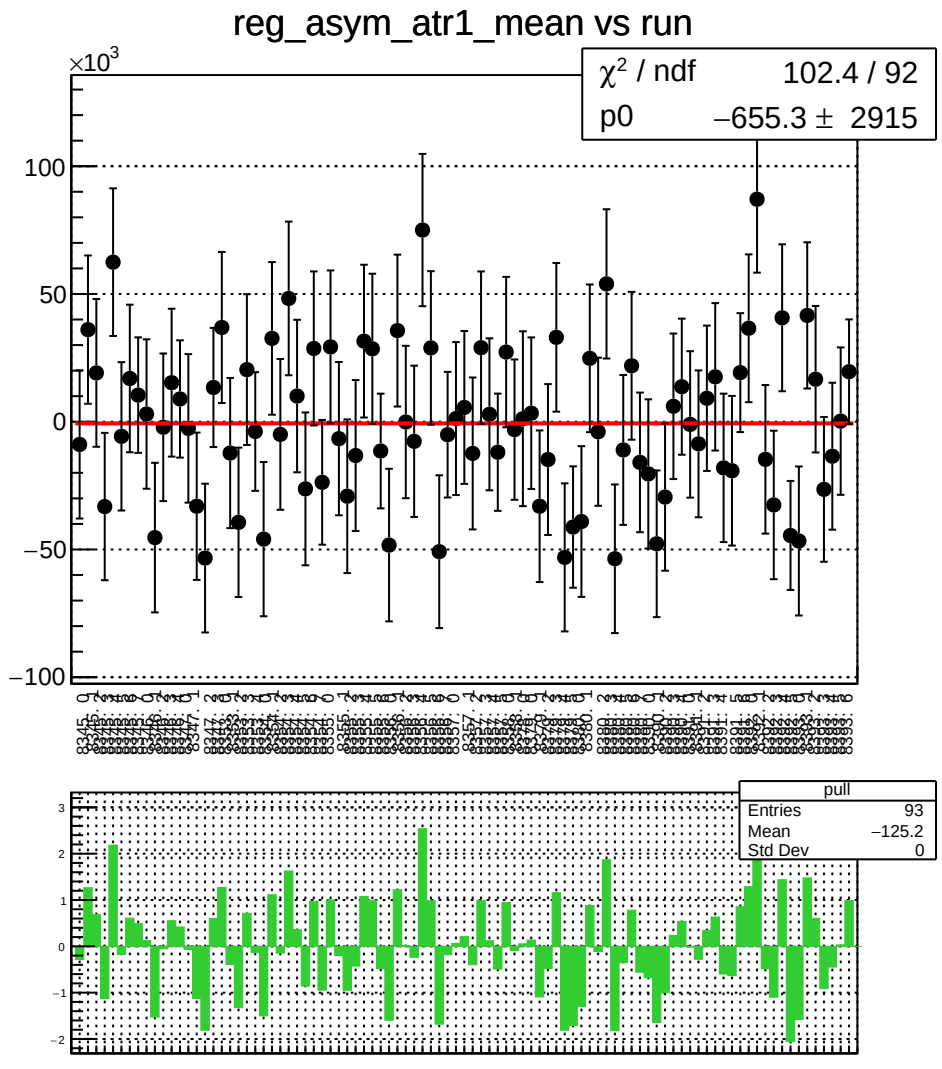

pull1D
Entries 93
Mean 0.0394
Std Dev 0.9937

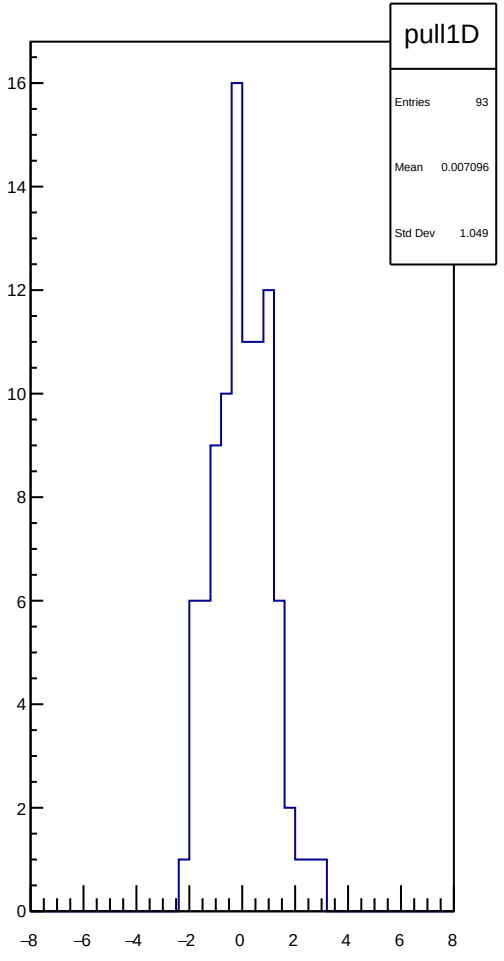

asym_atl2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.814e+04 / 92
p0 219.1 ± 0.166
450
400
350
300
250
200
150

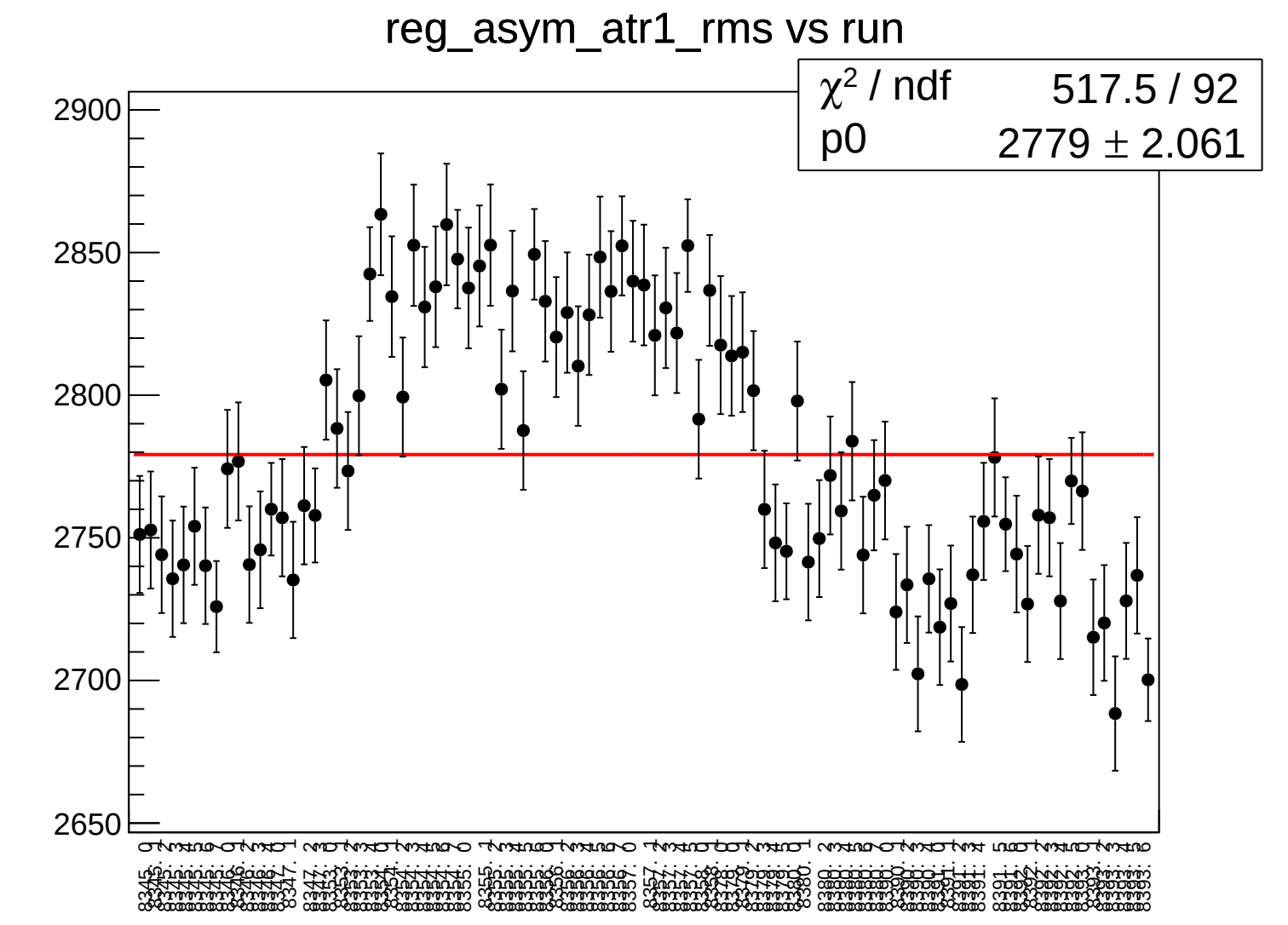

asym_atl2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 107.2 / 92
p0 −2.955e−13 ± 6.916e−13
pull
Entries 93
Mean 7.922
Std Dev 0

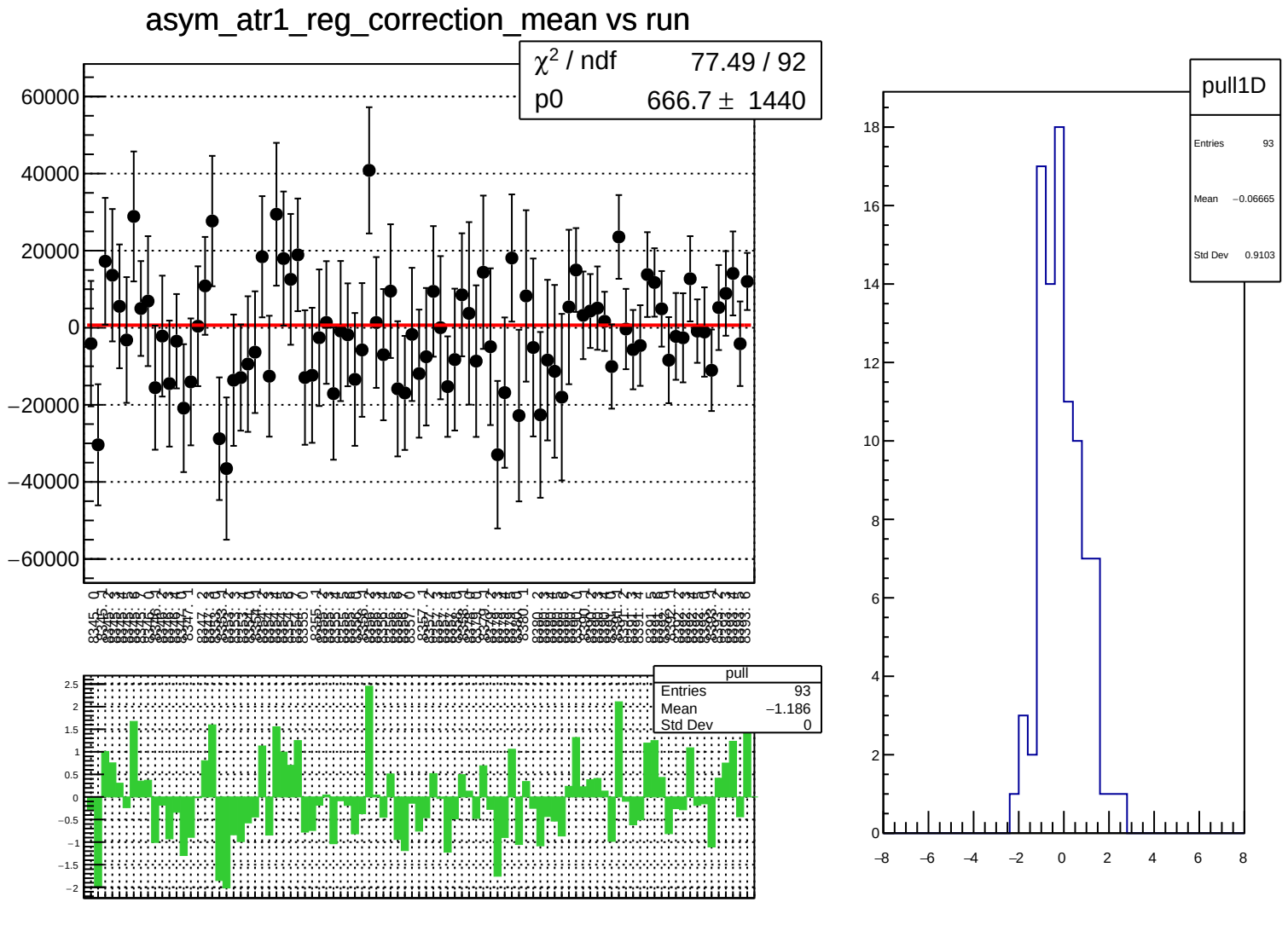

pull1D
Entries 93
Mean 0.07101
Std Dev 1.071

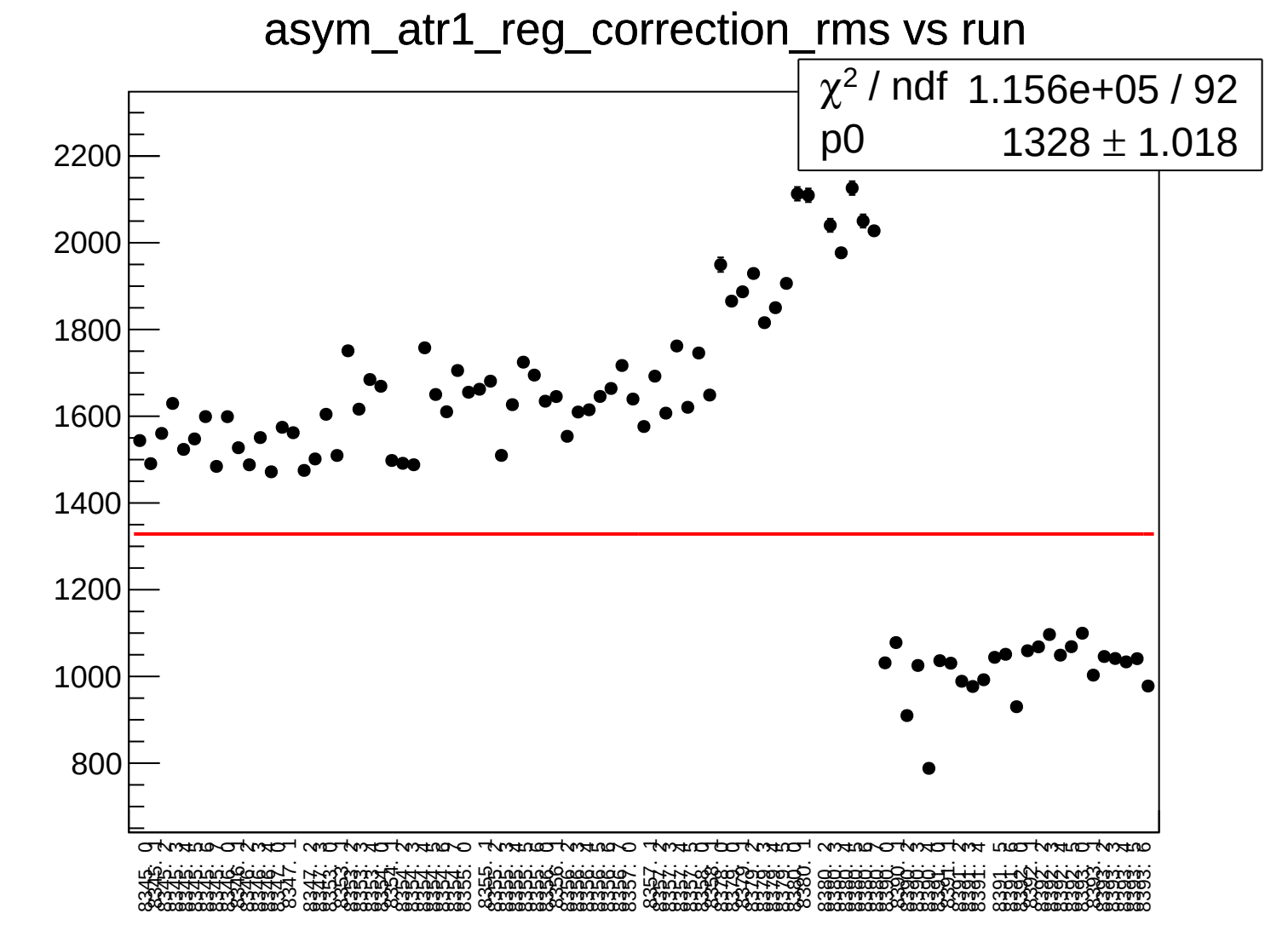

asym_atl2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.474e+05 / 92
p0 5.293e−10 ± 4.89e−13
4
3.5
3
2.5
2
1.5
1
0.5

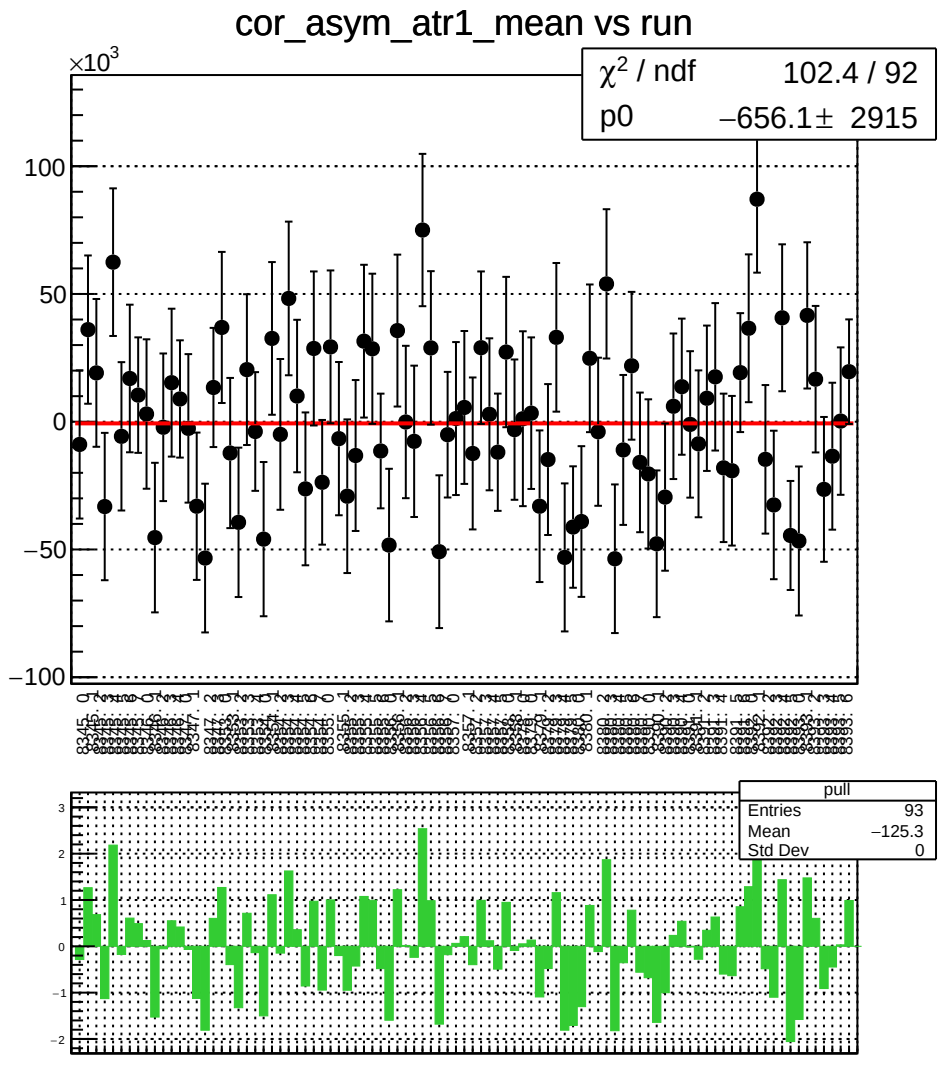

reg_asym_atr1_mean vs run
×10^3
χ² / ndf 102.4 / 92
p0 −655.3 ± 2915
100
50
0
−50
−100
pull
Entries 93
Mean −125.2
Std Dev 0
3
2
1
0
−1
−2

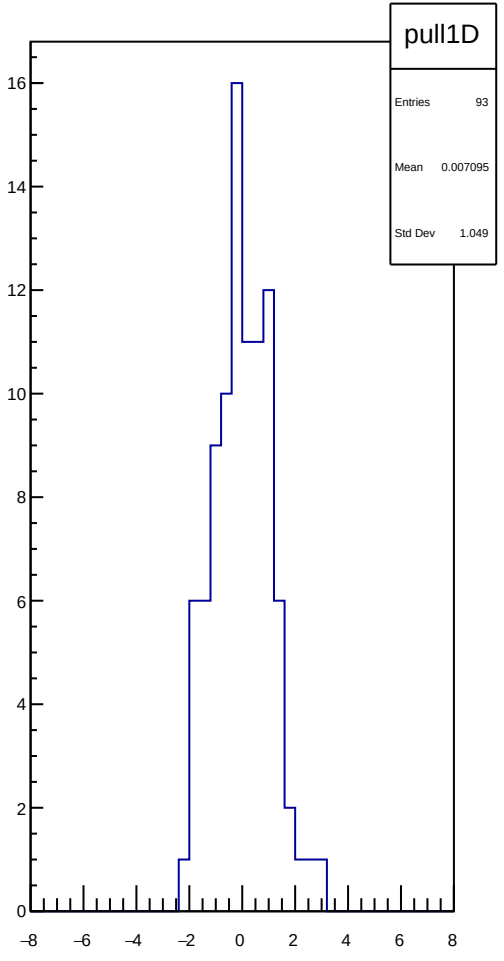

pull1D
Entries 93
Mean 0.007096
Std Dev 1.049
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

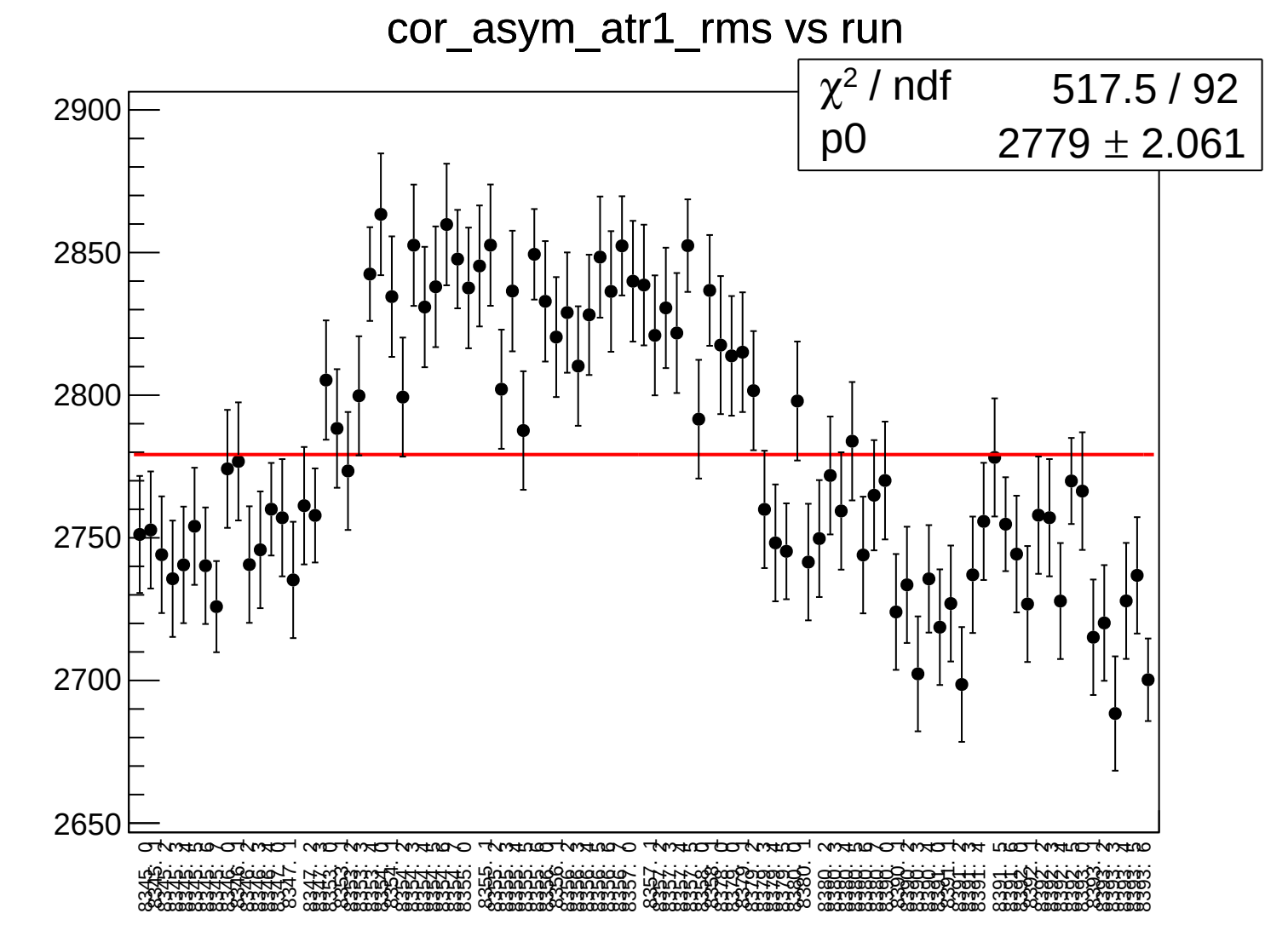

reg_asym_atr1_rms vs run
χ² / ndf 517.5 / 92
p0 2779 ± 2.061
2900
2850
2800
2750
2700
2650

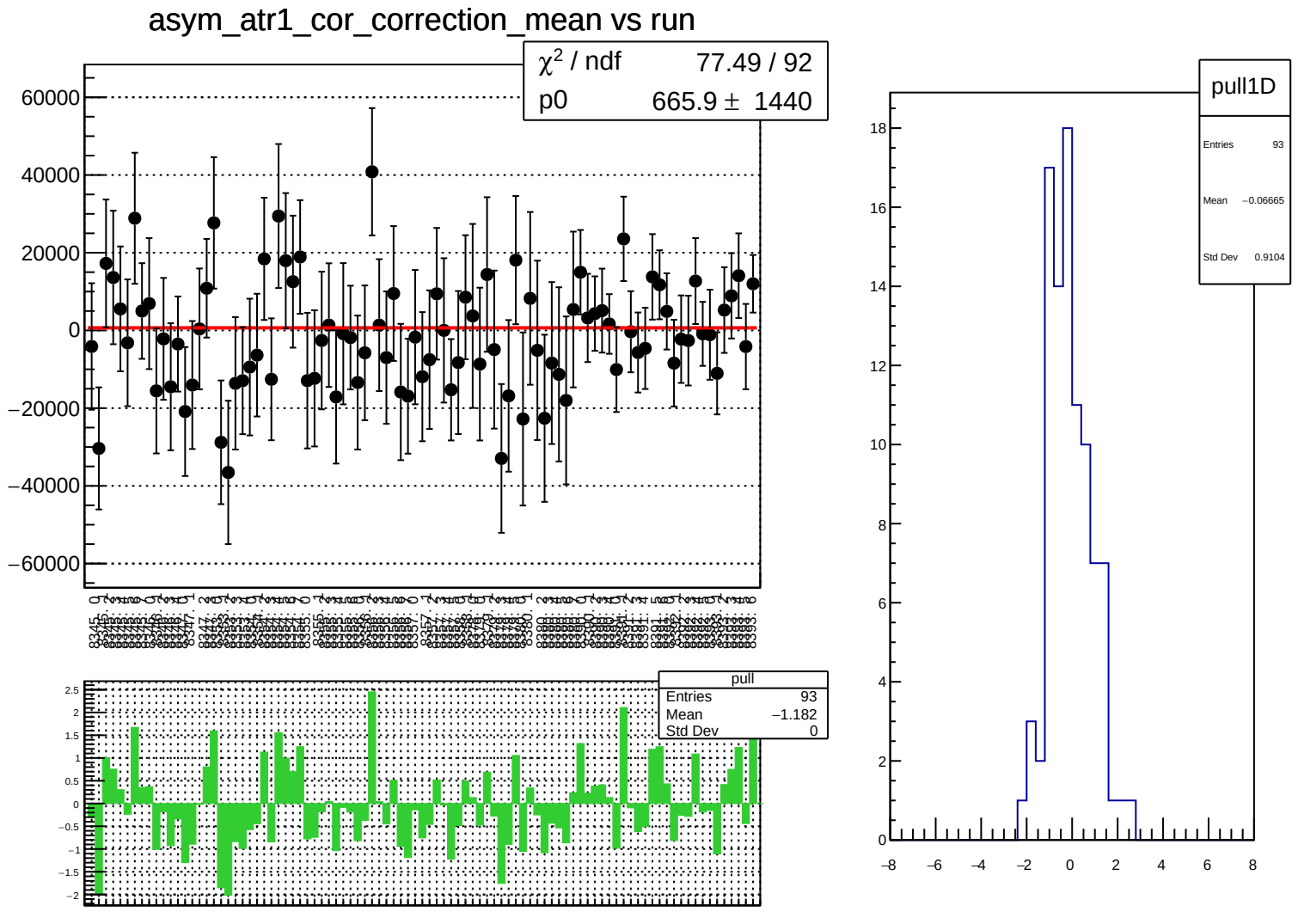

asym_atr1_reg_correction_mean vs run
χ² / ndf 77.49 / 92
p0 666.7 ± 1440
pull
Entries 93
Mean −1.186
Std Dev 0
pull1D
Entries 93
Mean −0.06665
Std Dev 0.9103

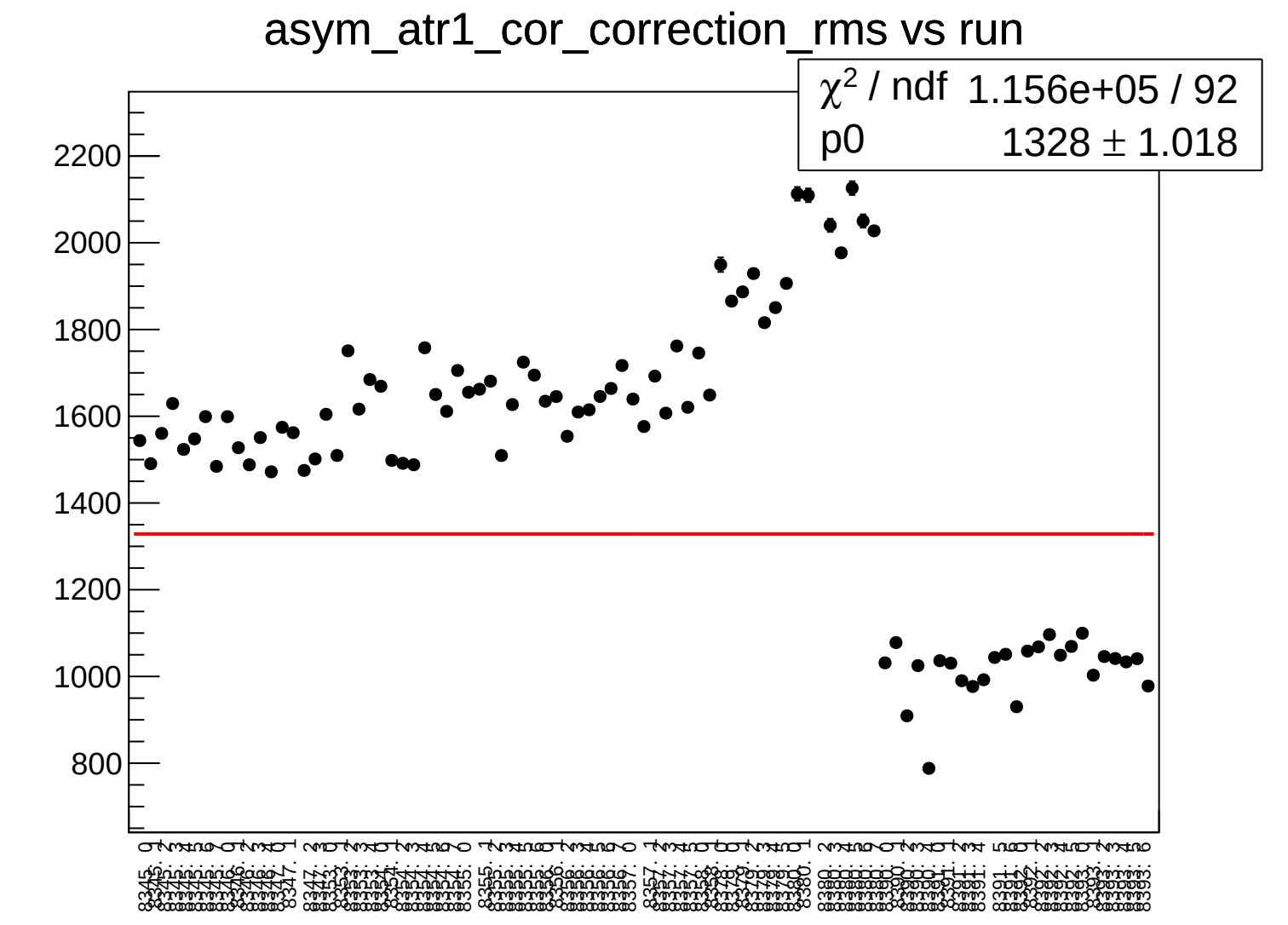

asym_atr1_reg_correction_rms vs run
χ² / ndf 1.156e+05 / 92
p0 1328 ± 1.018
2200
2000
1800
1600
1400
1200
1000
800

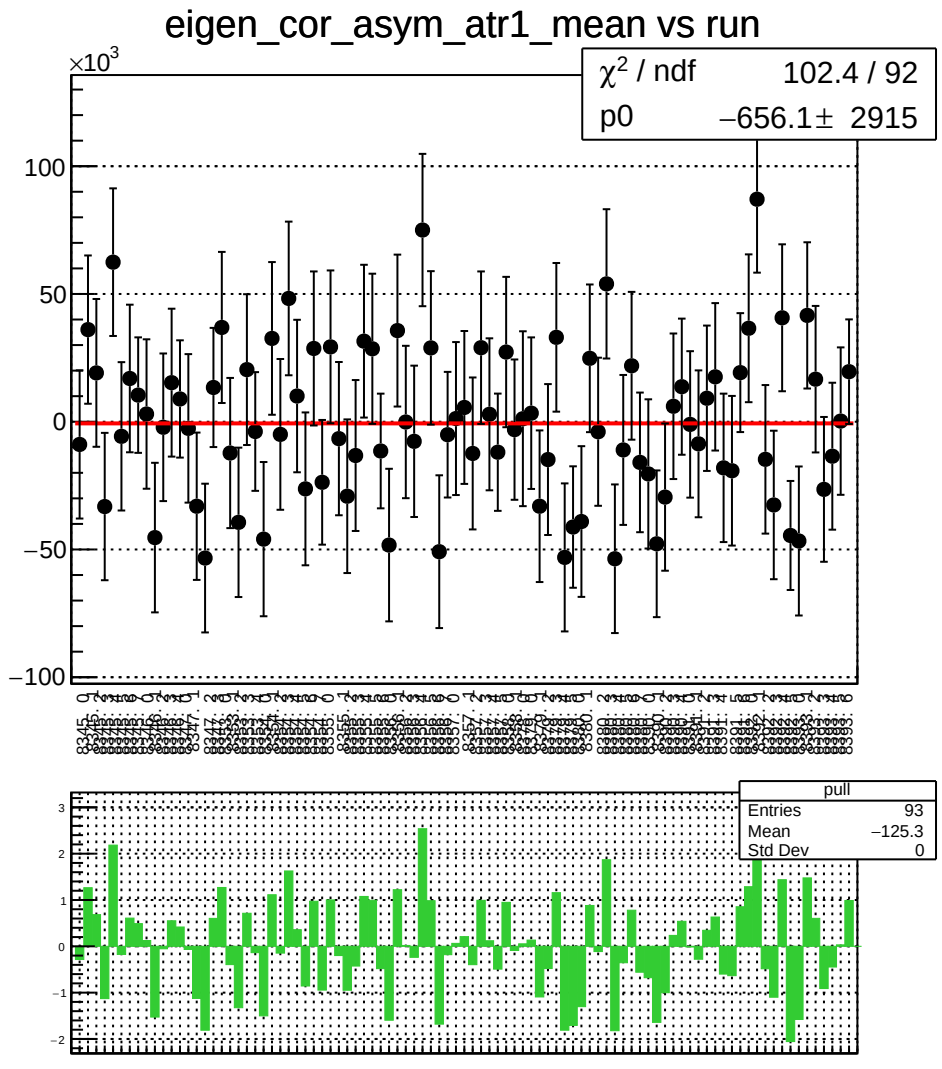

cor_asym_atr1_mean vs run
×10^3
χ^2 / ndf 102.4 / 92
p0 −656.1± 2915
100
50
0
−50
−100
pull
Entries 93
Mean −125.3
Std Dev 0
3
2
1
0
−1
−2

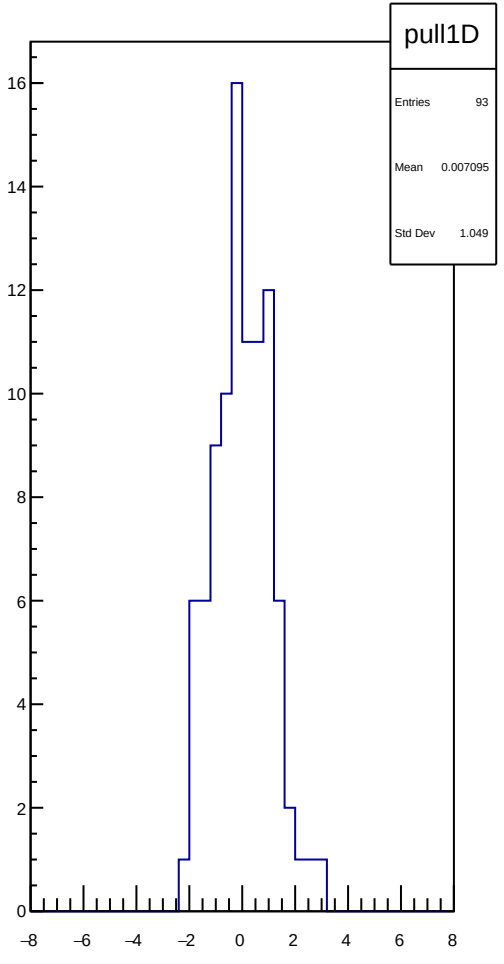

pull1D
Entries 93
Mean 0.007095
Std Dev 1.049
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

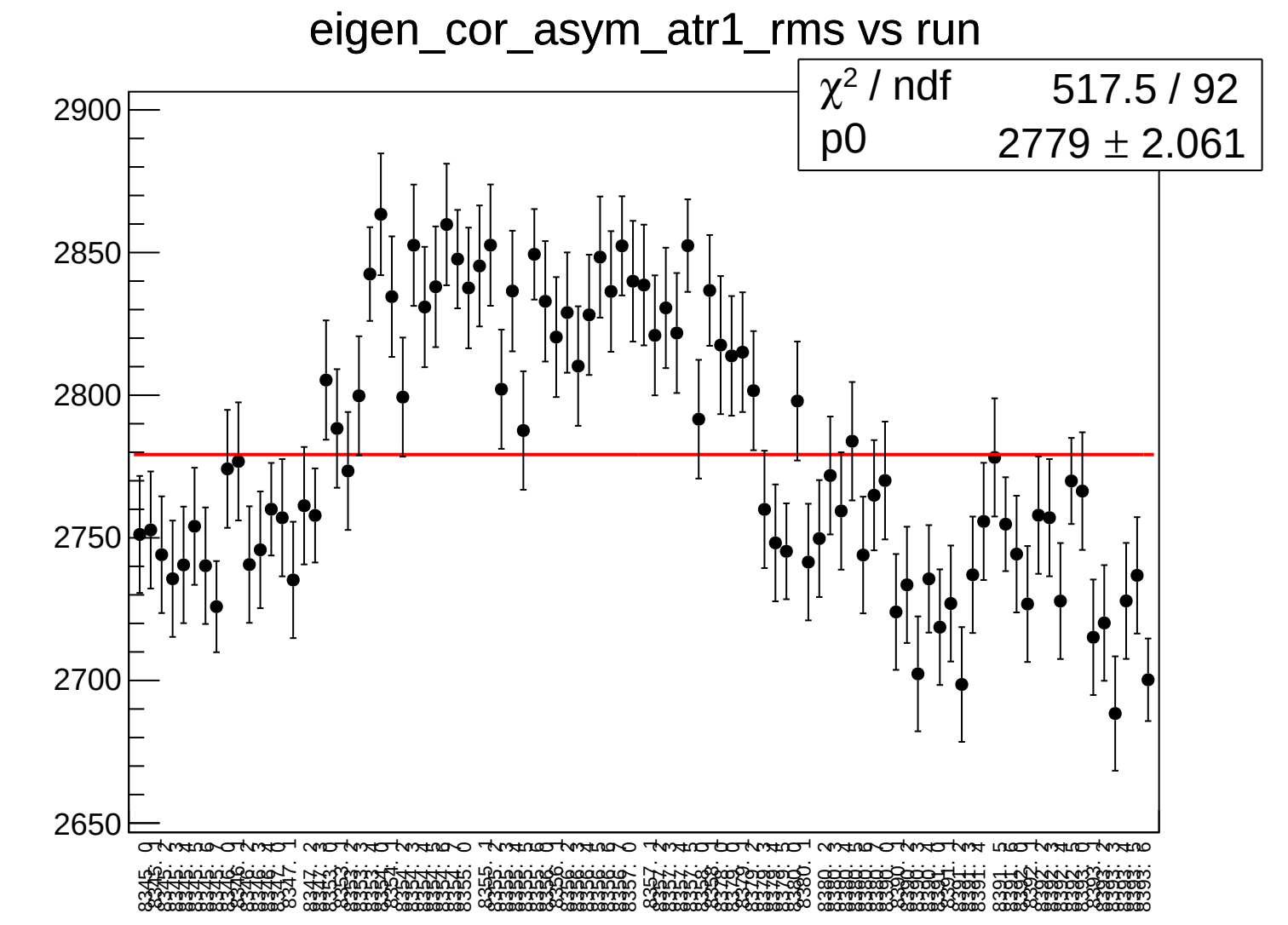

cor_asym_atr1_rms vs run
χ² / ndf 517.5 / 92
p0 2779 ± 2.061
2900
2850
2800
2750
2700
2650

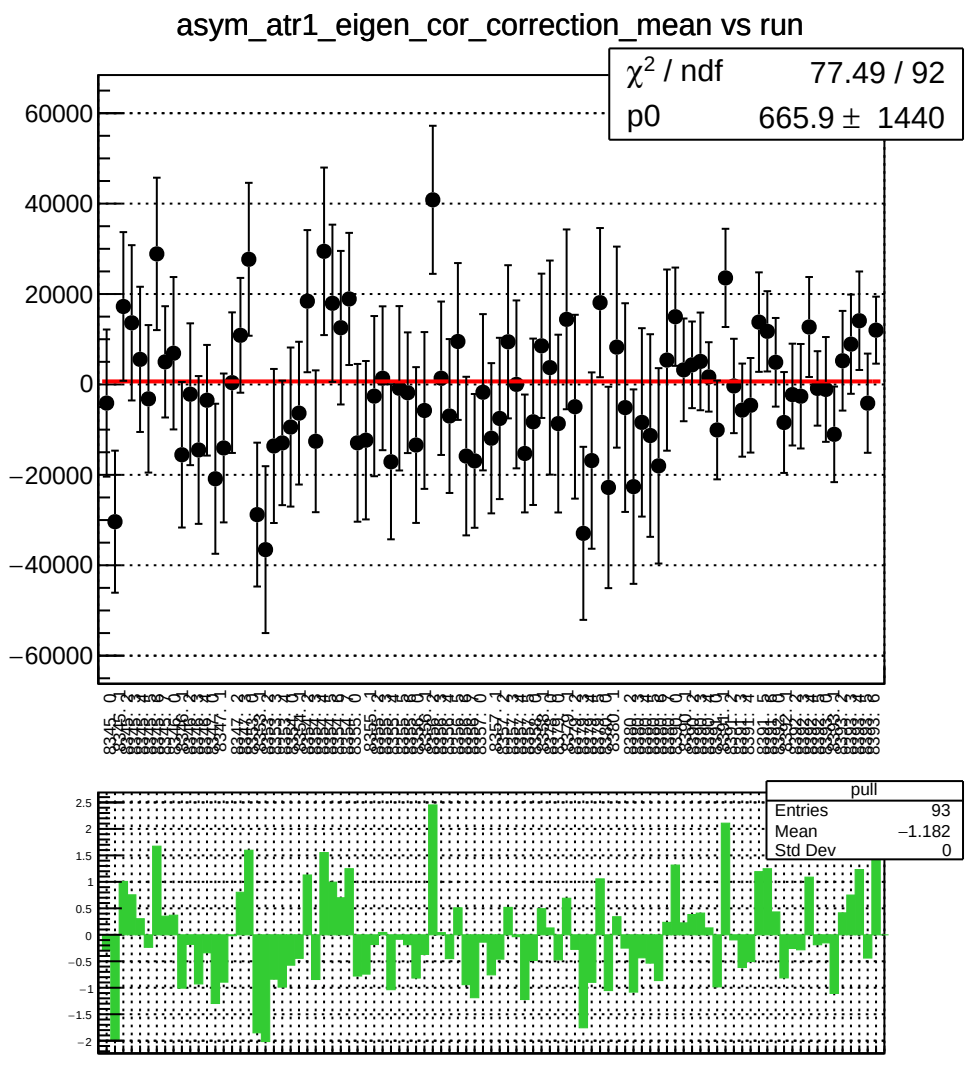

asym_atr1_cor_correction_mean vs run
χ² / ndf 77.49 / 92
p0 665.9 ± 1440
pull
Entries 93
Mean −1.182
Std Dev 0
pull1D
Entries 93
Mean −0.06665
Std Dev 0.9104

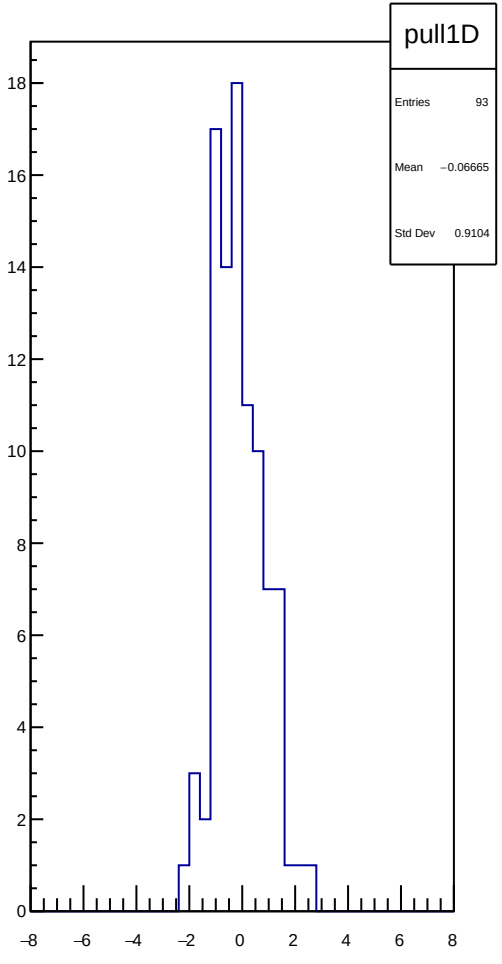

asym_atr1_cor_correction_rms vs run
χ² / ndf 1.156e+05 / 92
p0 1328 ± 1.018
2200
2000
1800
1600
1400
1200
1000
800

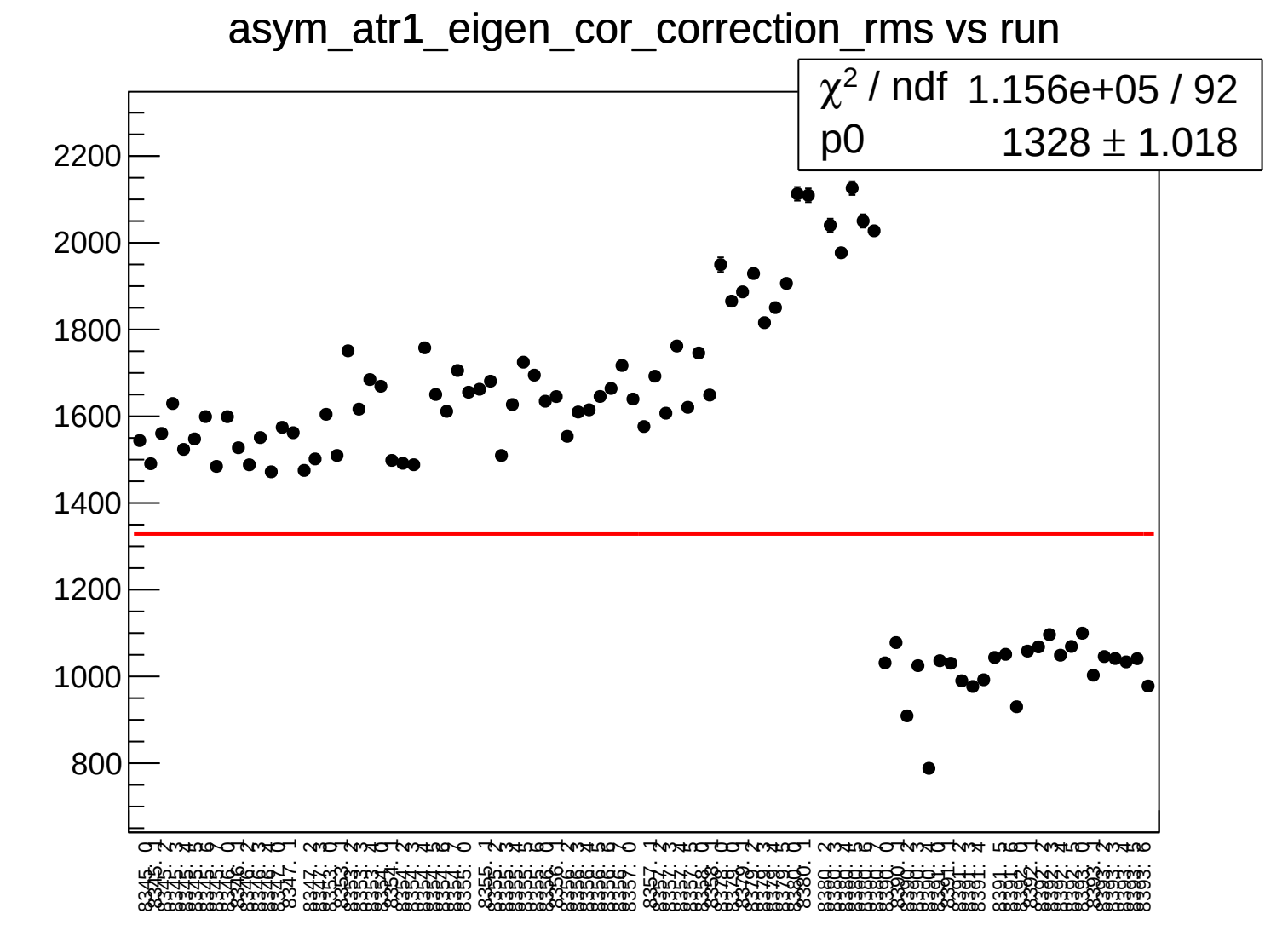

eigen_cor_asym_atr1_mean vs run
×10^3
χ^2 / ndf 102.4 / 92
p0 −656.1± 2915
100
50
0
−50
−100
pull
Entries 93
Mean −125.3
Std Dev 0
3
2
1
0
−1
−2

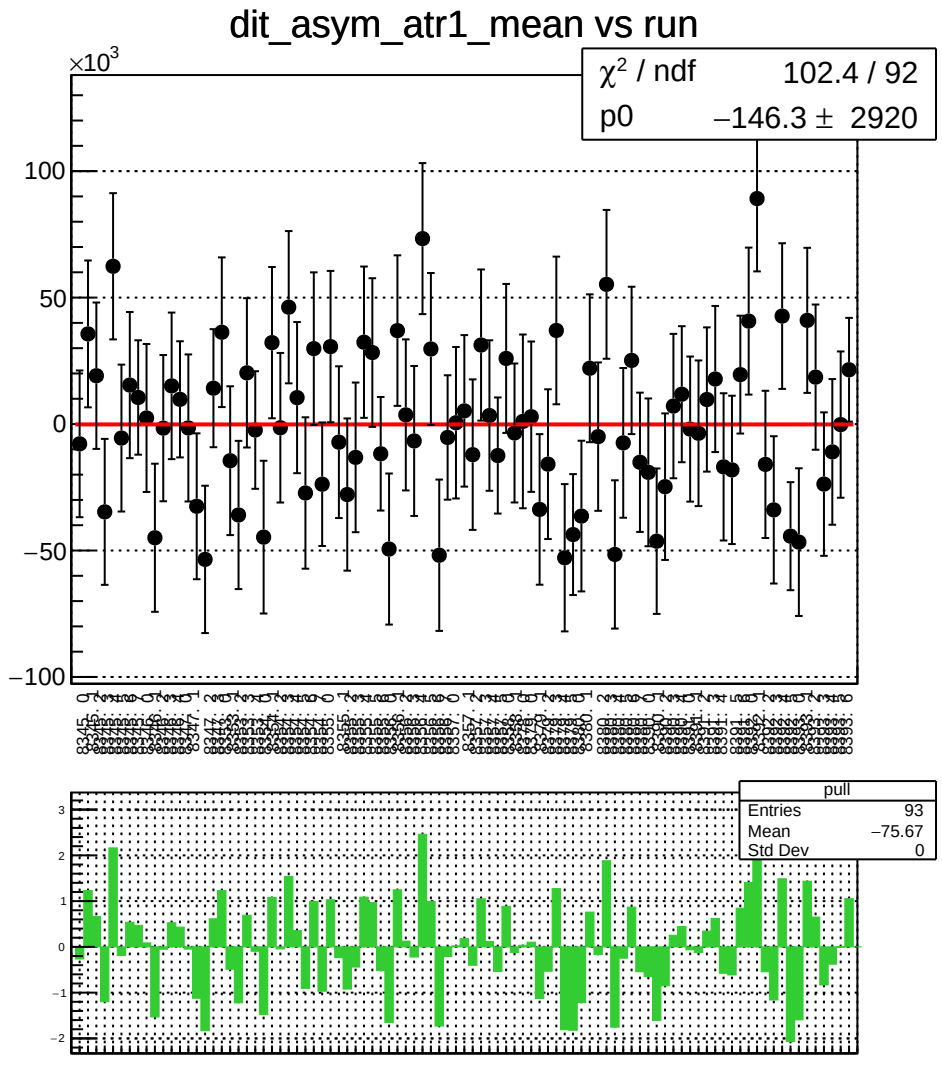

pull1D
Entries 93
Mean 0.007095
Std Dev 1.049
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

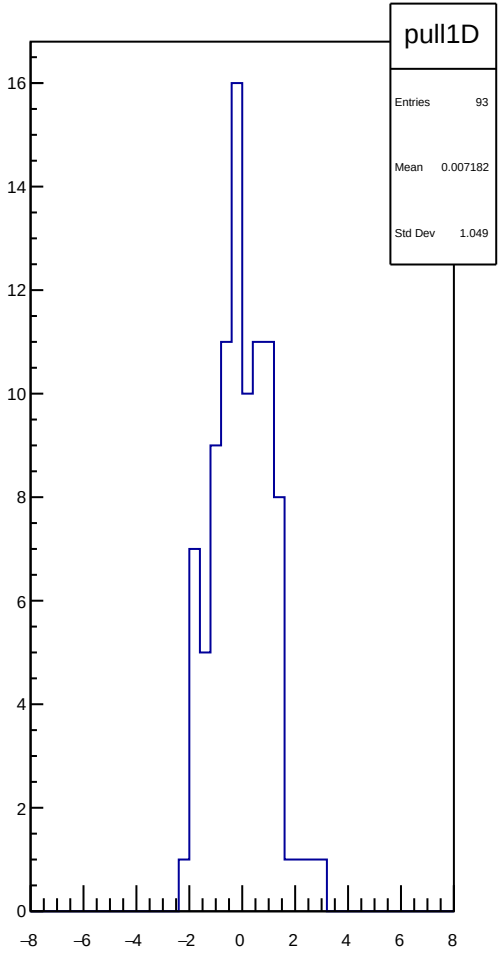

eigen_cor_asym_atr1_rms vs run
χ² / ndf 517.5 / 92
p0 2779 ± 2.061
2900
2850
2800
2750
2700
2650

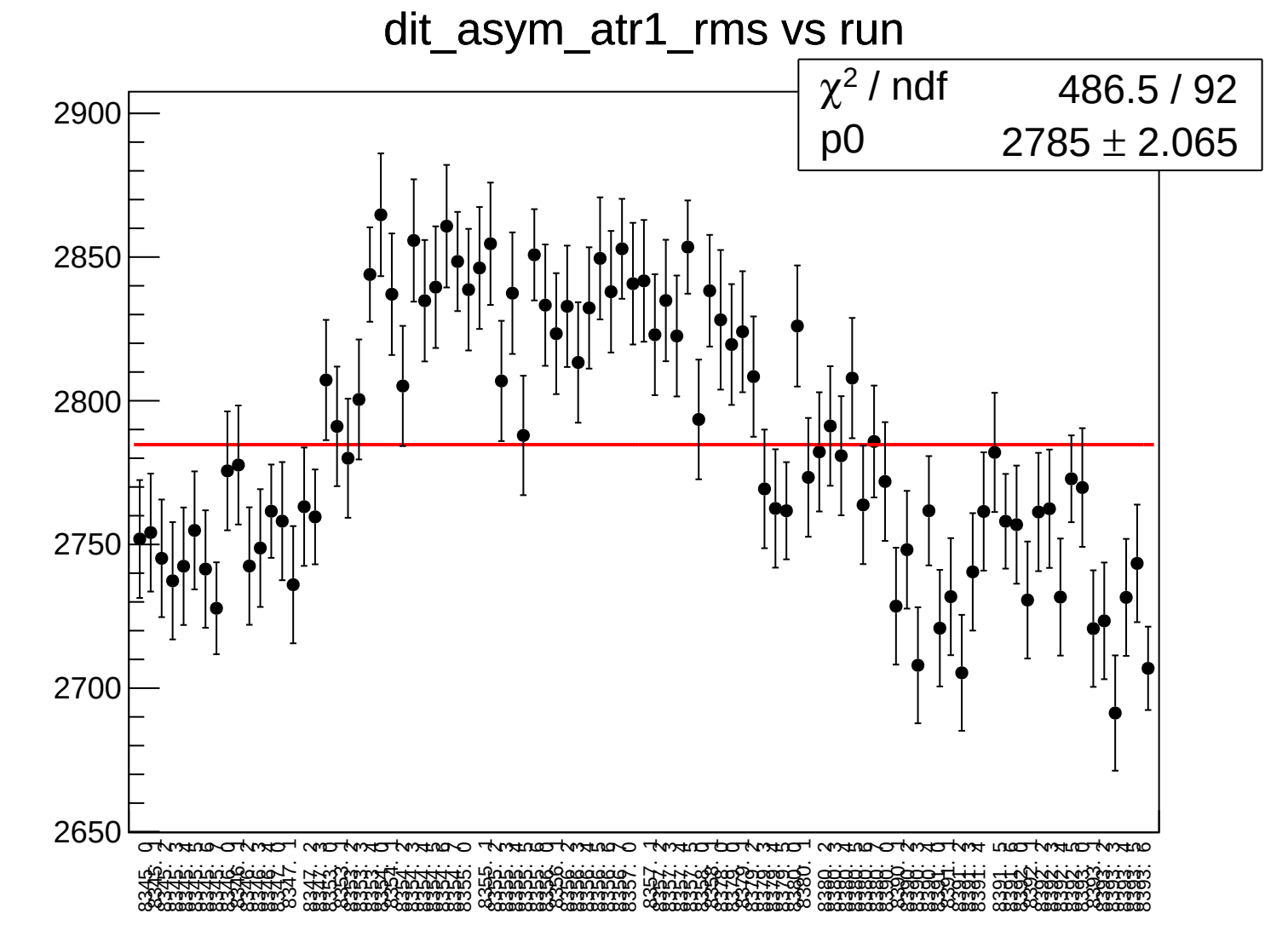

asym_atr1_eigen_cor_correction_mean vs run
χ² / ndf 77.49 / 92
p0 665.9 ± 1440
pull
Entries 93
Mean −1.182
Std Dev 0

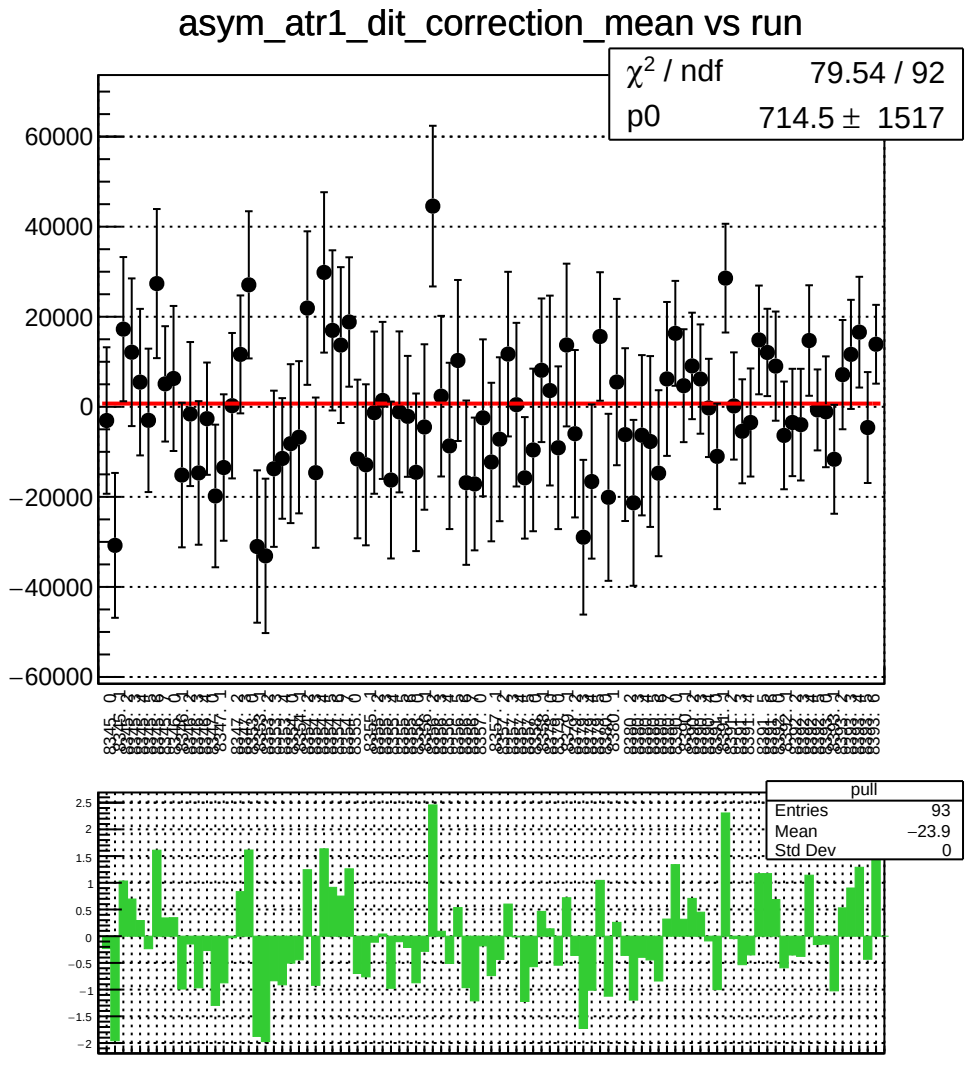

pull1D
Entries 93
Mean −0.06665
Std Dev 0.9104

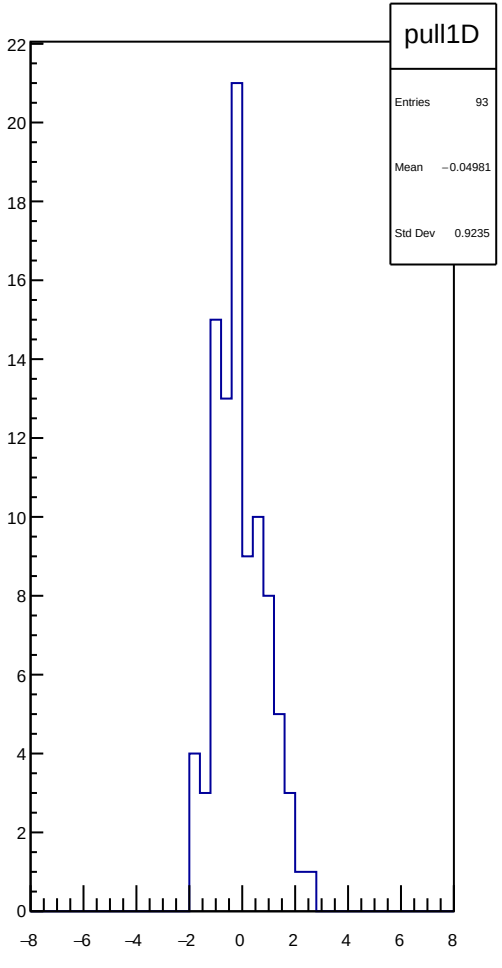

asym_atr1_eigen_cor_correction_rms vs run
χ^2 / ndf 1.156e+05 / 92
p0 1328 ± 1.018
2200
2000
1800
1600
1400
1200
1000
800

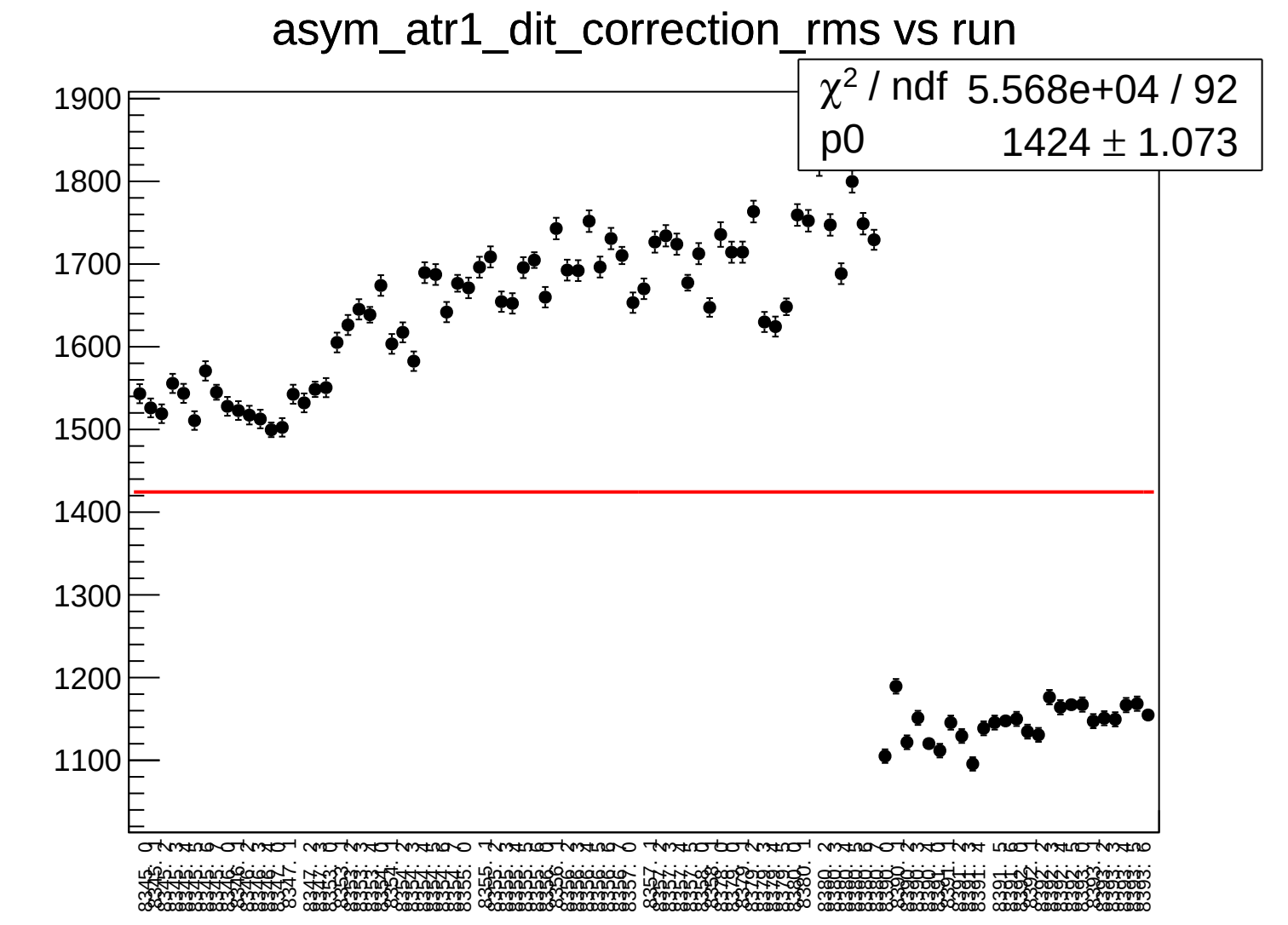

dit_asym_atr1_mean vs run
×10^3
χ² / ndf 102.4 / 92
p0 −146.3 ± 2920
100
50
0
−50
−100
pull
Entries 93
Mean −75.67
Std Dev 0
3
2
1
0
−1
−2

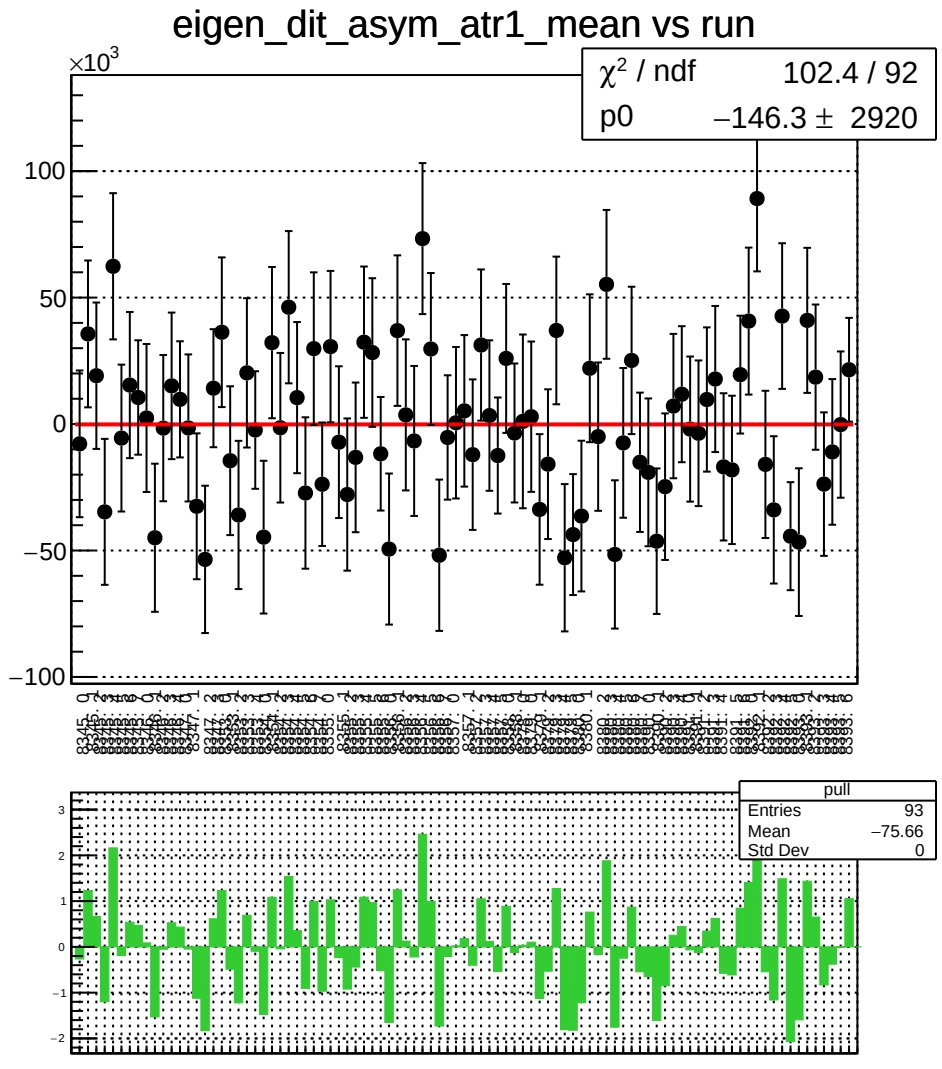

pull1D
Entries 93
Mean 0.007182
Std Dev 1.049
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

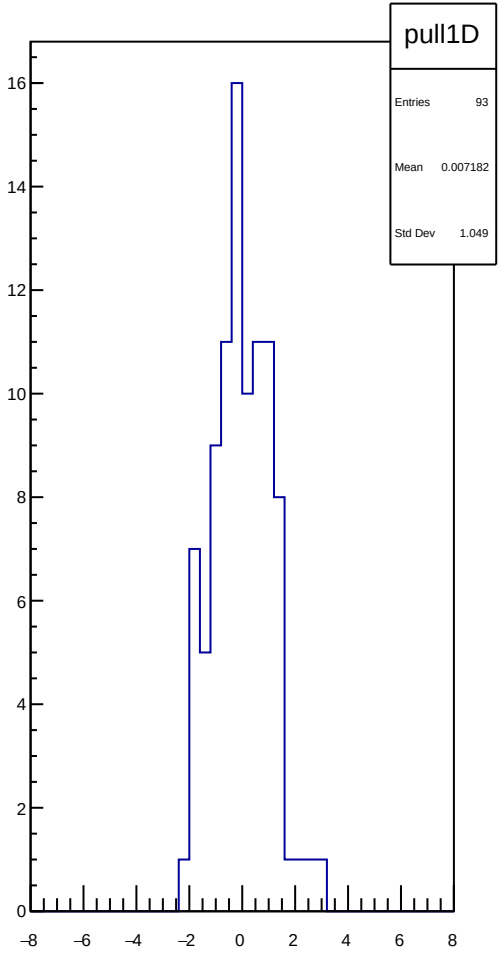

dit_asym_atr1_rms vs run
χ² / ndf 486.5 / 92
p0 2785 ± 2.065
2900
2850
2800
2750
2700
2650

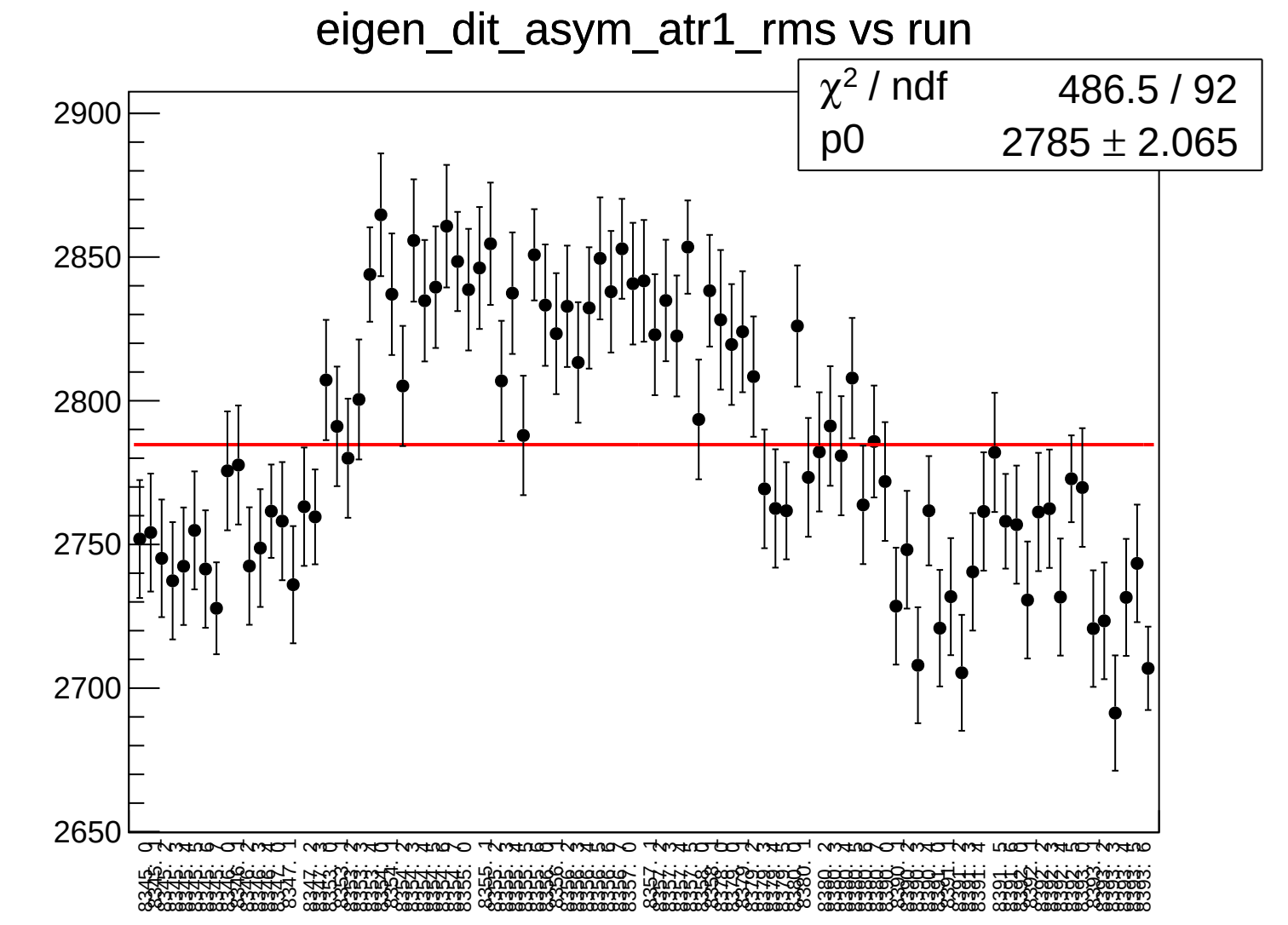

asym_atr1_dit_correction_mean vs run
χ² / ndf 79.54 / 92
p0 714.5 ± 1517
pull
Entries 93
Mean −23.9
Std Dev 0

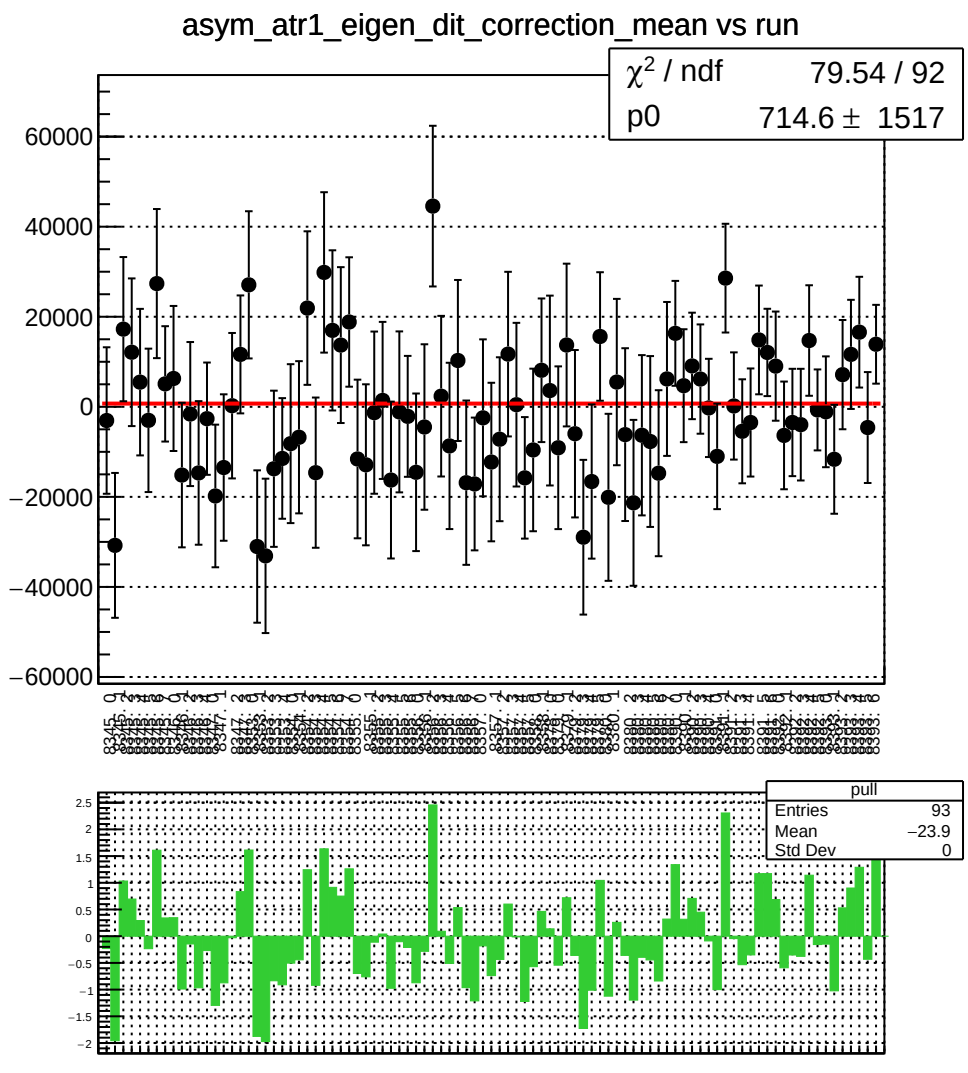

pull1D
Entries 93
Mean −0.04981
Std Dev 0.9235

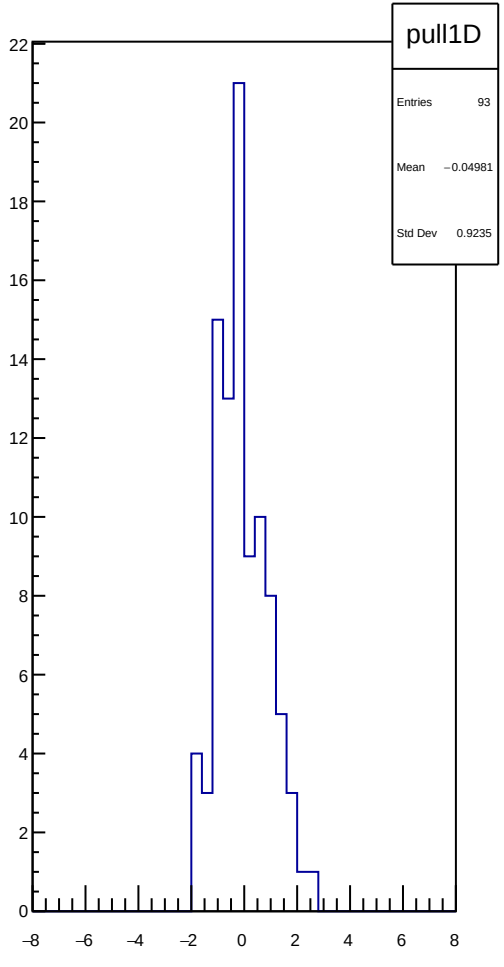

asym_atr1_dit_correction_rms vs run
χ² / ndf 5.568e+04 / 92
p0 1424 ± 1.073
1900
1800
1700
1600
1500
1400
1300
1200
1100

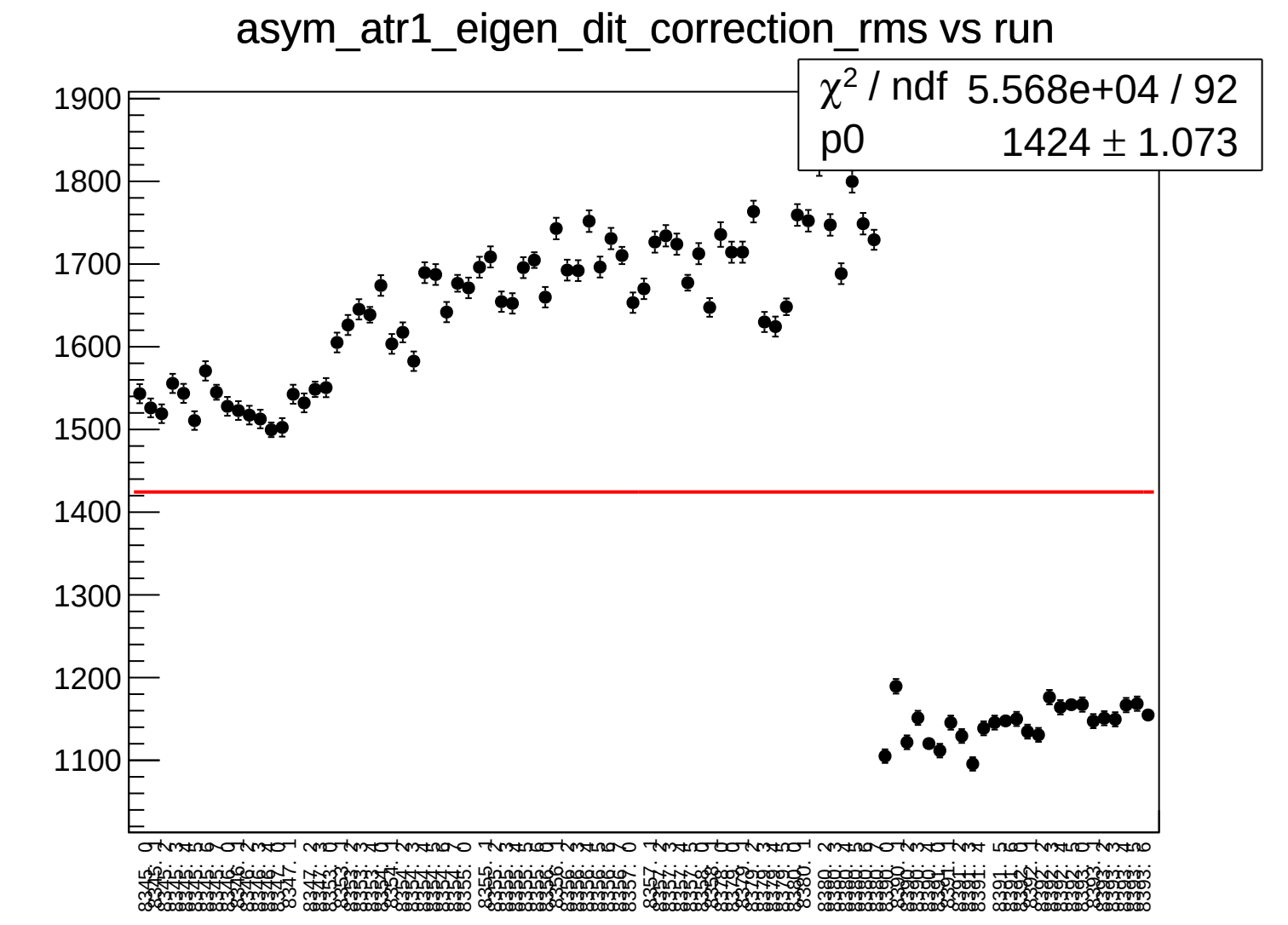

eigen_dit_asym_atr1_mean vs run
×10^3
χ² / ndf 102.4 / 92
p0 −146.3 ± 2920
100
50
0
−50
−100
pull
Entries 93
Mean −75.66
Std Dev 0
3
2
1
0
−1
−2

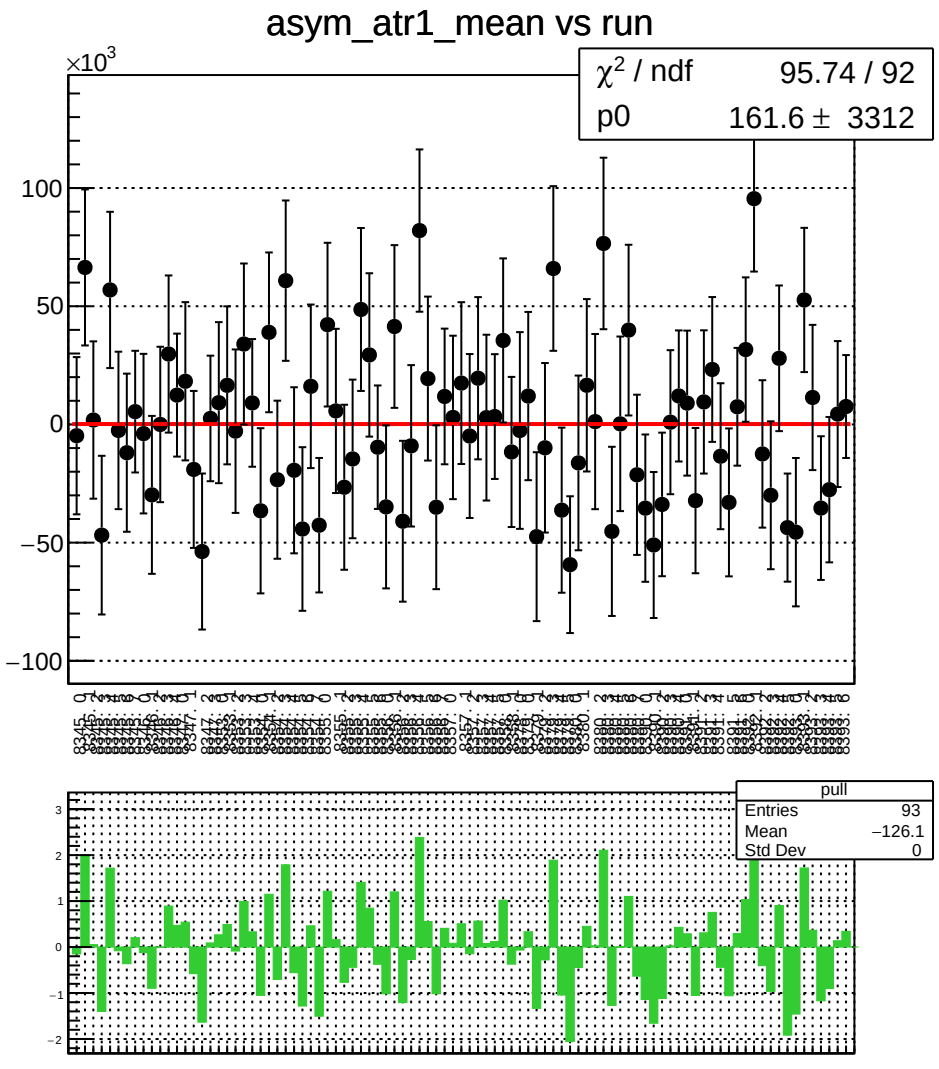

pull1D
Entries 93
Mean 0.007182
Std Dev 1.049
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

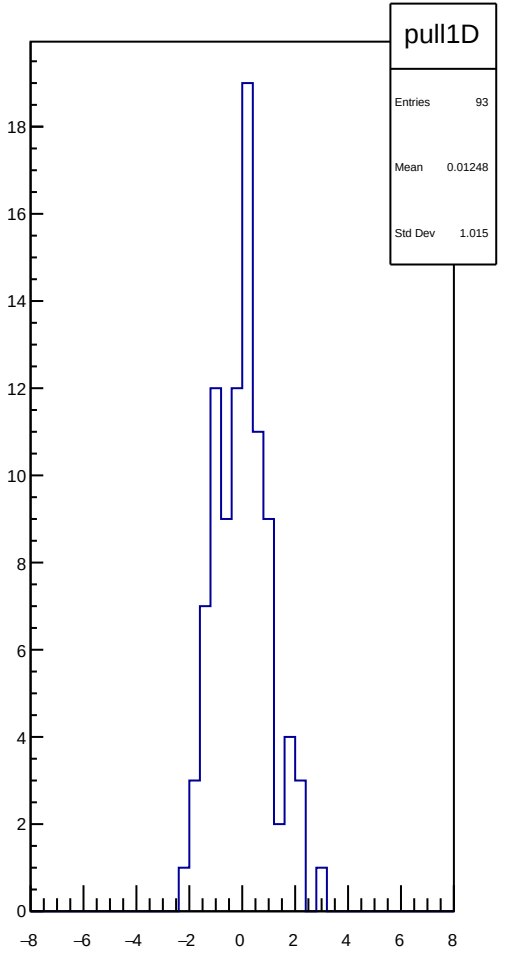

eigen_dit_asym_atr1_rms vs run
χ² / ndf 486.5 / 92
p0 2785 ± 2.065
2900
2850
2800
2750
2700
2650

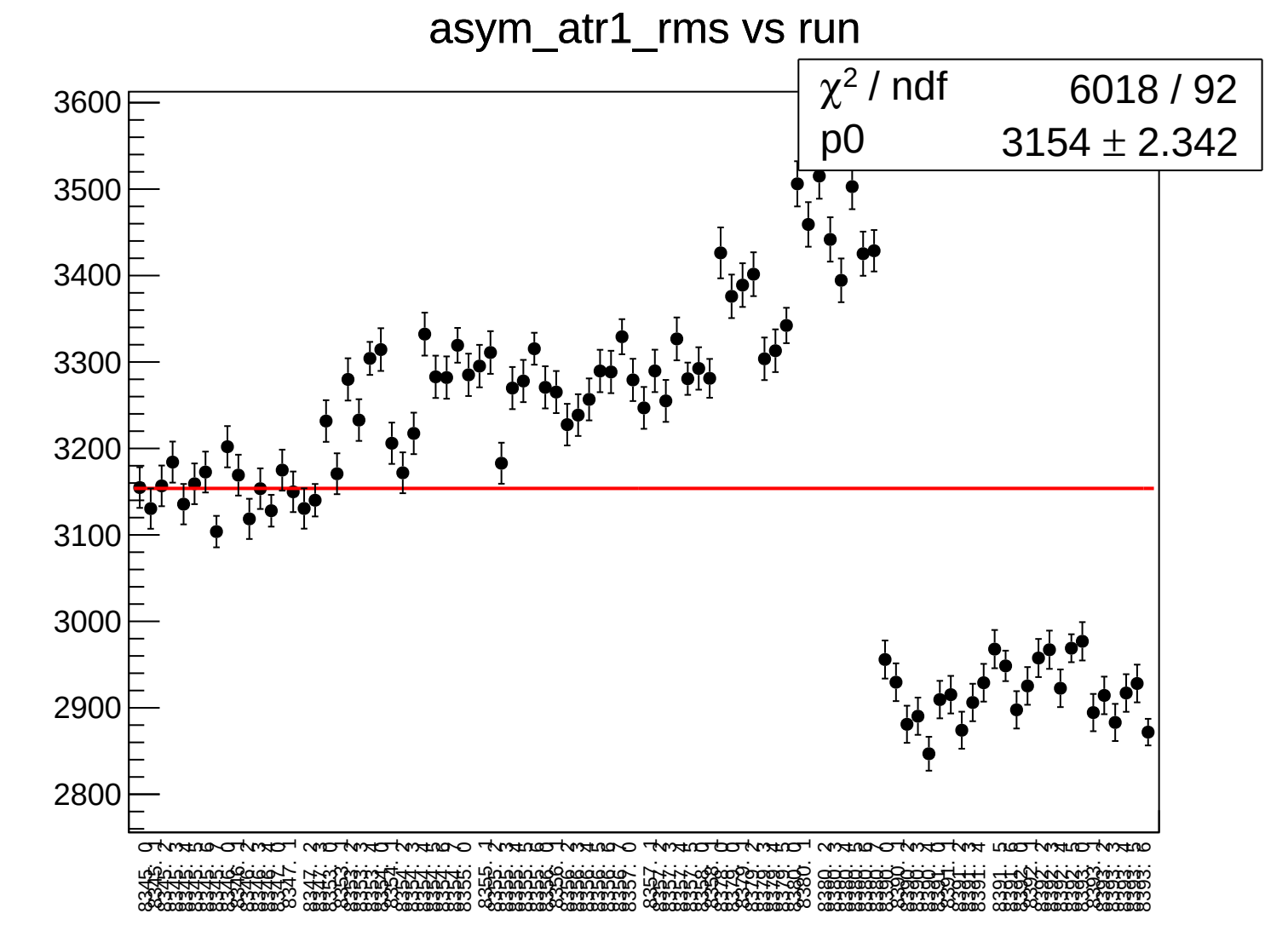

asym_atr1_eigen_dit_correction_mean vs run
χ² / ndf 79.54 / 92
p0 714.6 ± 1517
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −23.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

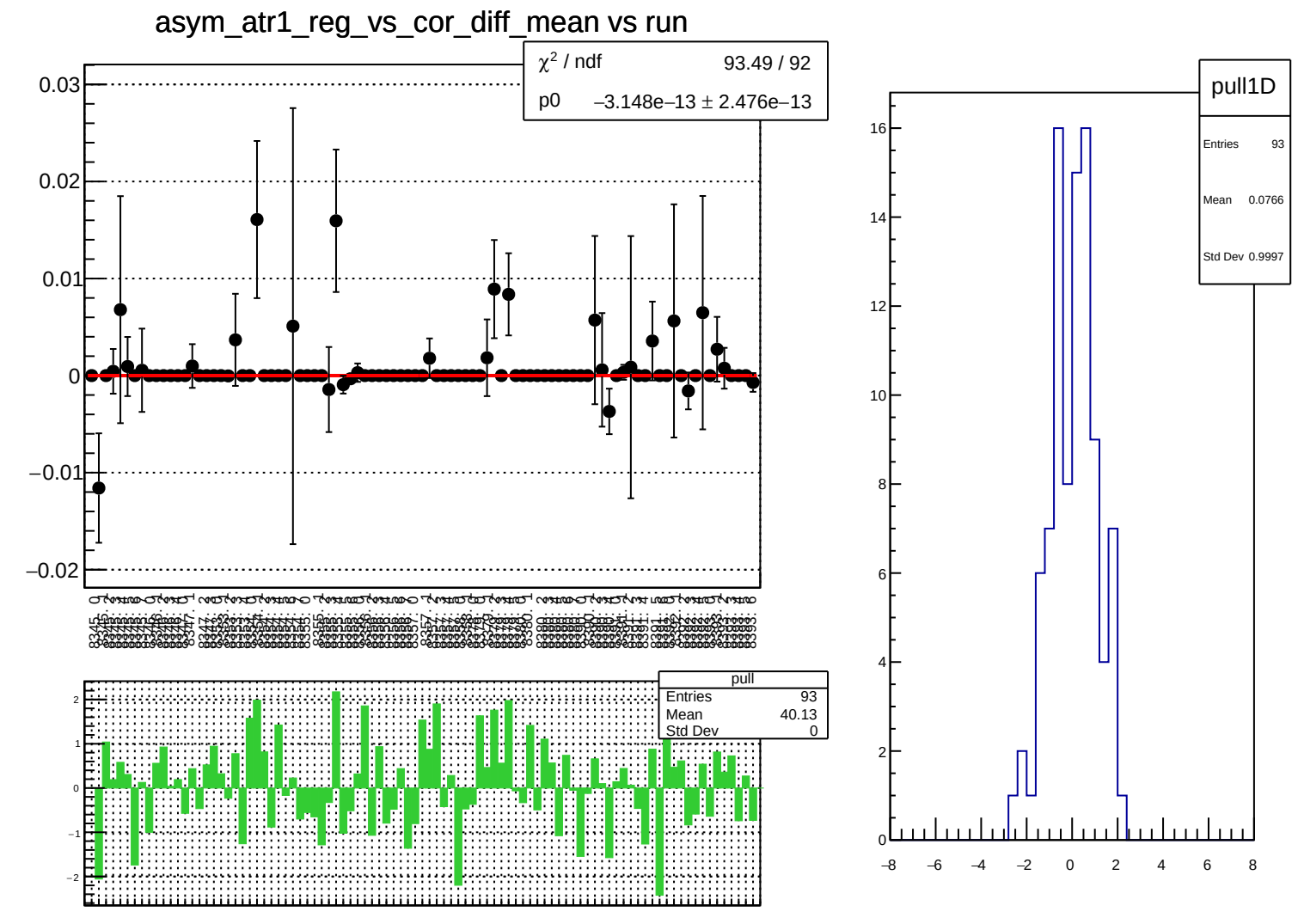

pull1D
Entries 93
Mean −0.04981
Std Dev 0.9235
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

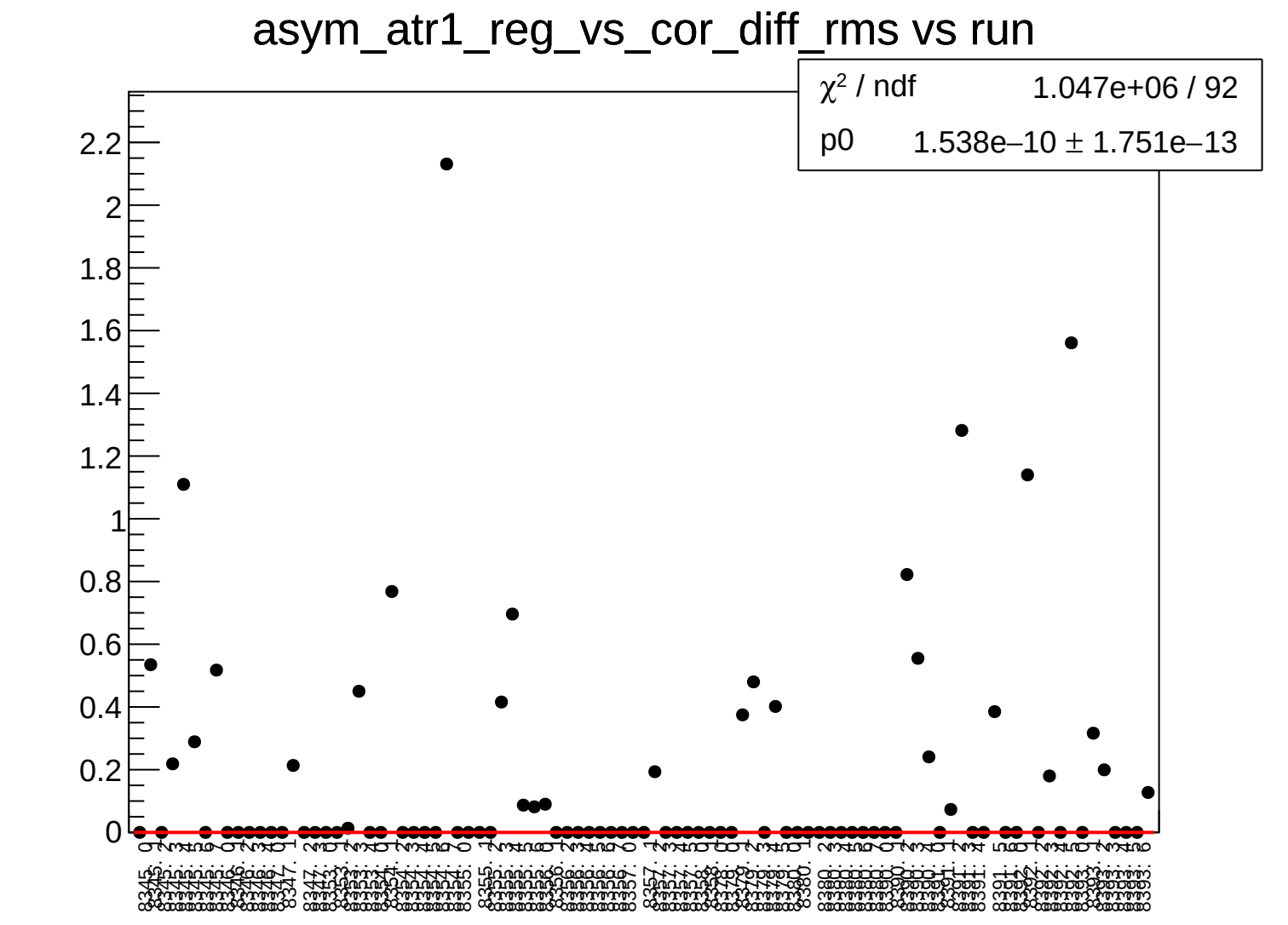

asym_atr1_eigen_dit_correction_rms vs run
χ² / ndf 5.568e+04 / 92
p0 1424 ± 1.073
1900
1800
1700
1600
1500
1400
1300
1200
1100

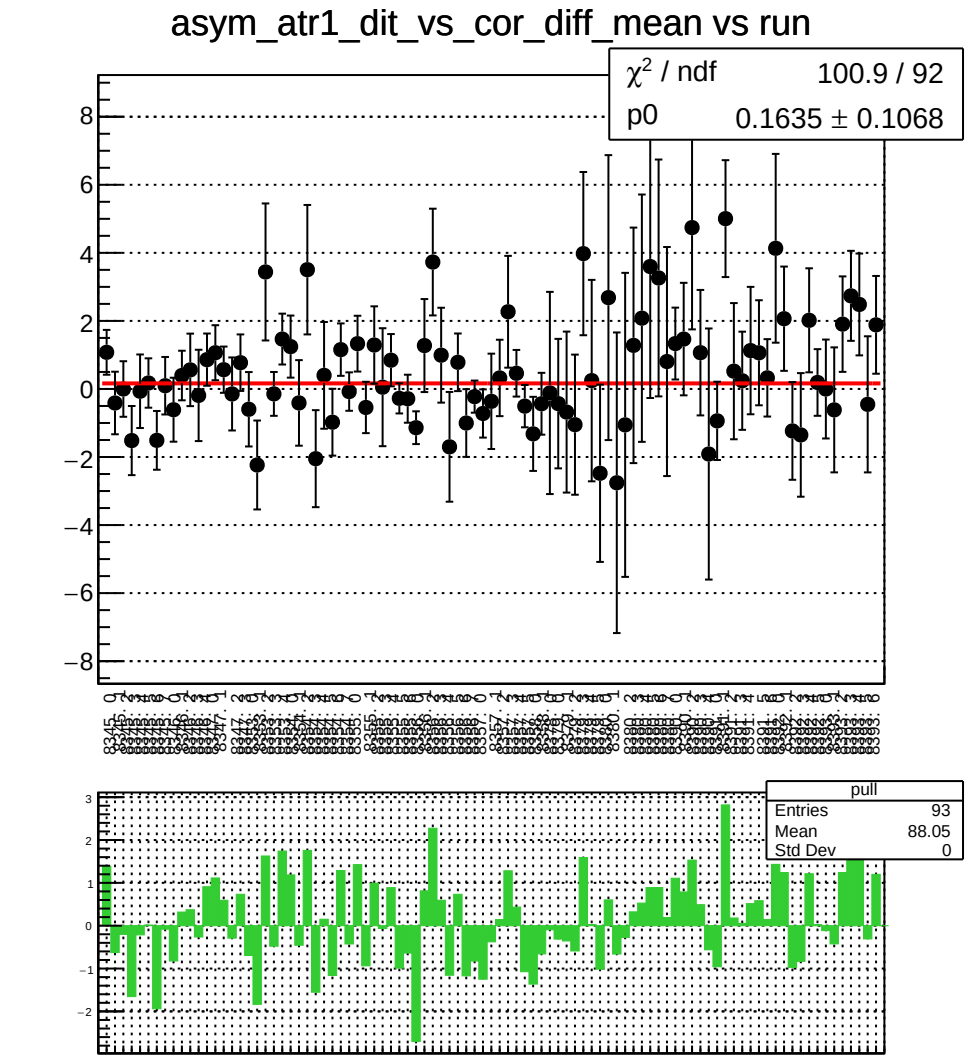

asym_atr1_mean vs run
×10^3
χ^2 / ndf 95.74 / 92
p0 161.6 ± 3312
100
50
0
−50
−100
pull
Entries 93
Mean −126.1
Std Dev 0
3
2
1
0
−1
−2

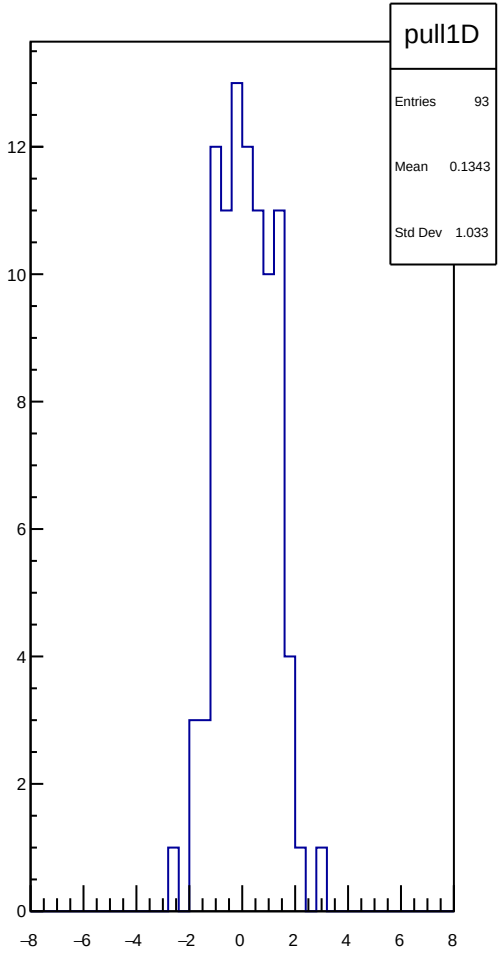

pull1D
Entries 93
Mean 0.01248
Std Dev 1.015
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

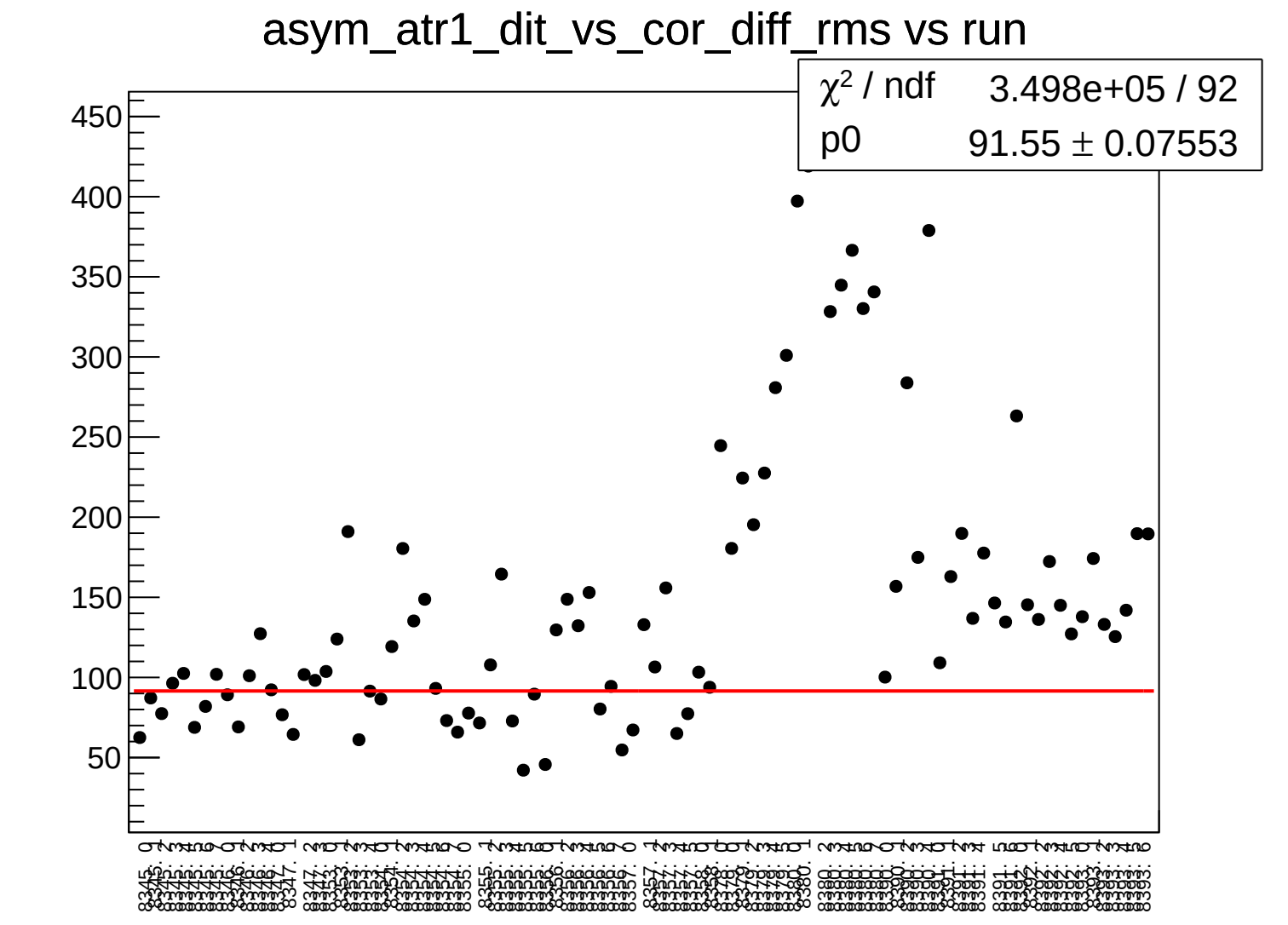

asym_atr1_rms vs run
χ² / ndf 6018 / 92
p0 3154 ± 2.342
3600
3500
3400
3300
3200
3100
3000
2900
2800

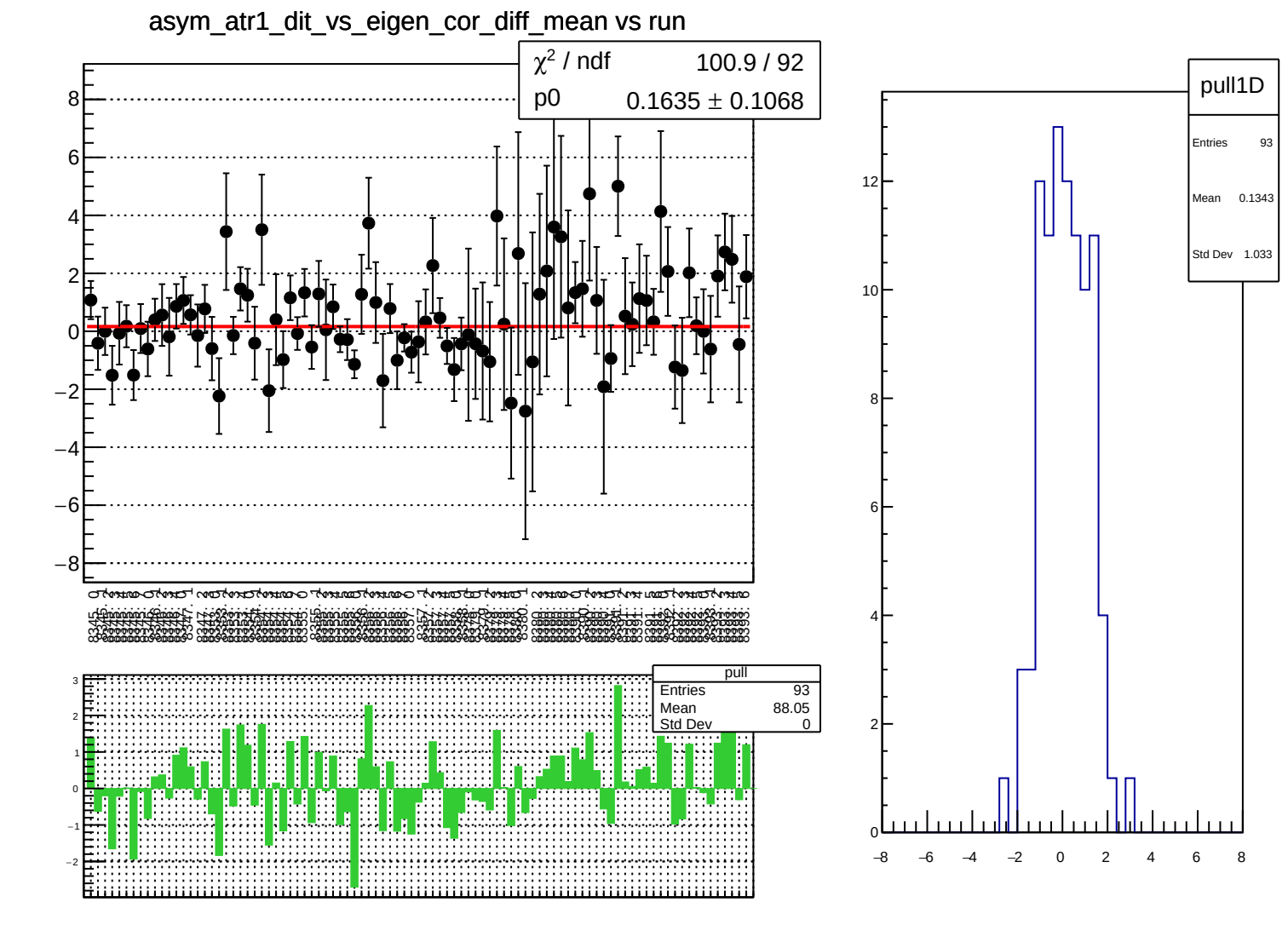

asym_atr1_reg_vs_cor_diff_mean vs run
χ² / ndf 93.49 / 92
p0 −3.148e−13 ± 2.476e−13
pull
Entries 93
Mean 40.13
Std Dev 0
pull1D
Entries 93
Mean 0.0766
Std Dev 0.9997

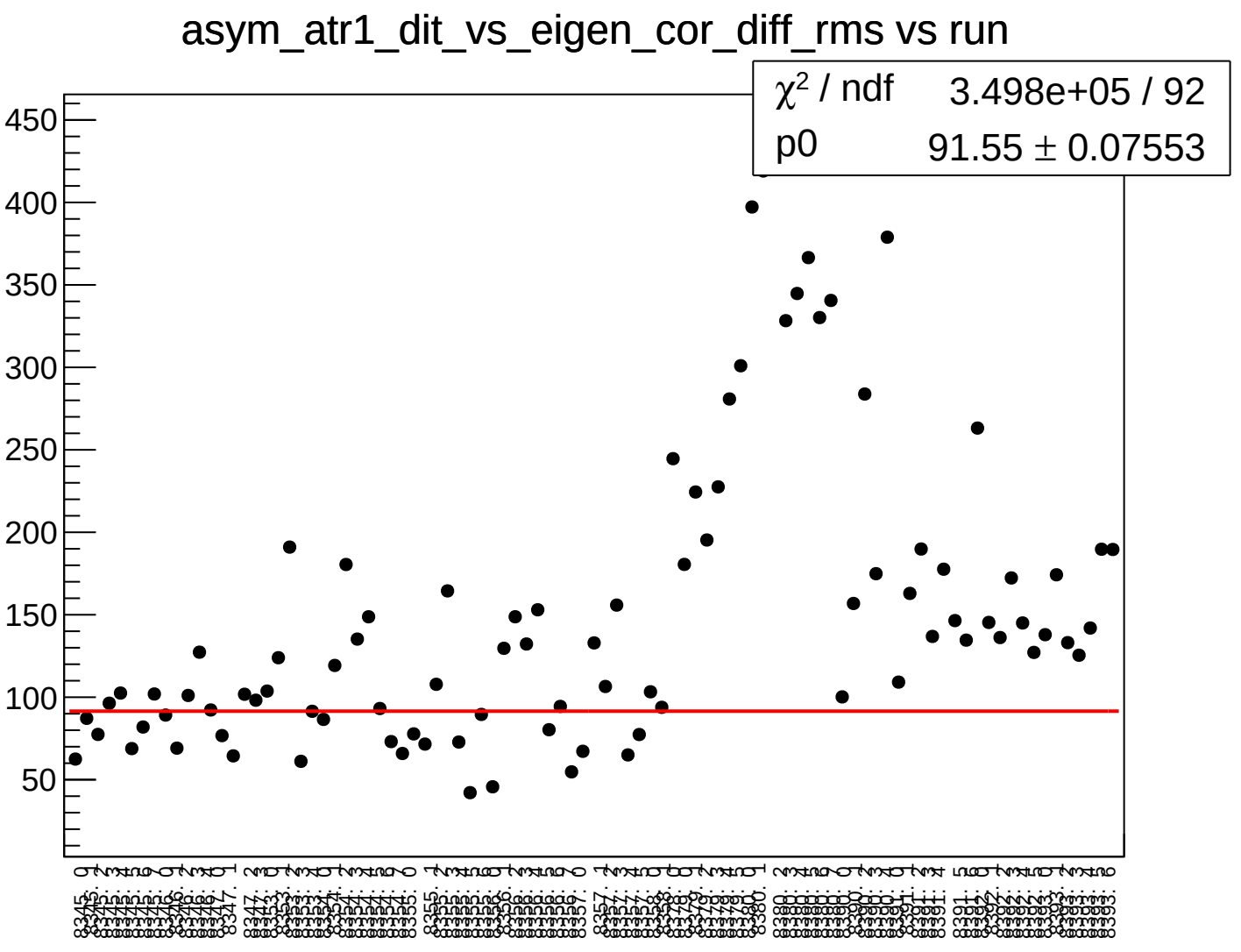

asym_atr1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.047e+06 / 92
p0 1.538e−10 ± 1.751e−13
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

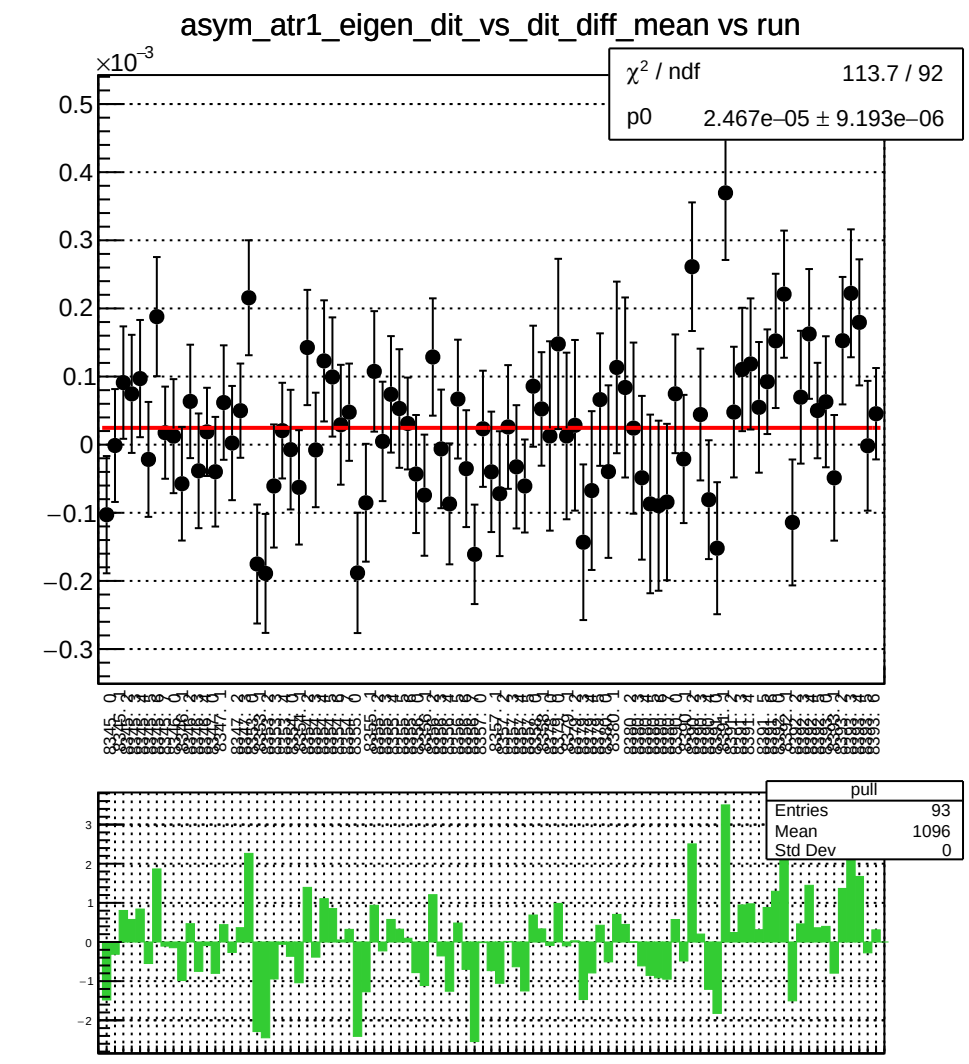

asym_atr1_dit_vs_cor_diff_mean vs run
χ² / ndf 100.9 / 92
p0 0.1635 ± 0.1068
pull
Entries 93
Mean 88.05
Std Dev 0

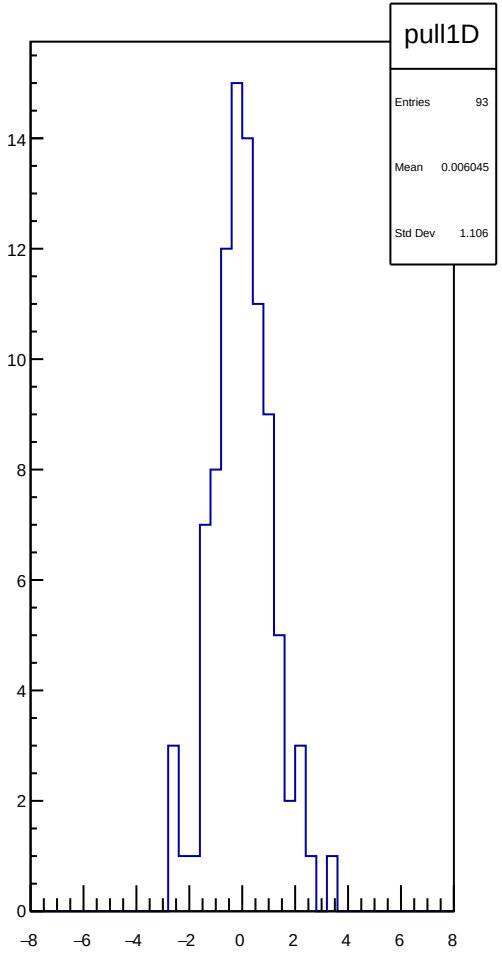

pull1D
Entries 93
Mean 0.1343
Std Dev 1.033

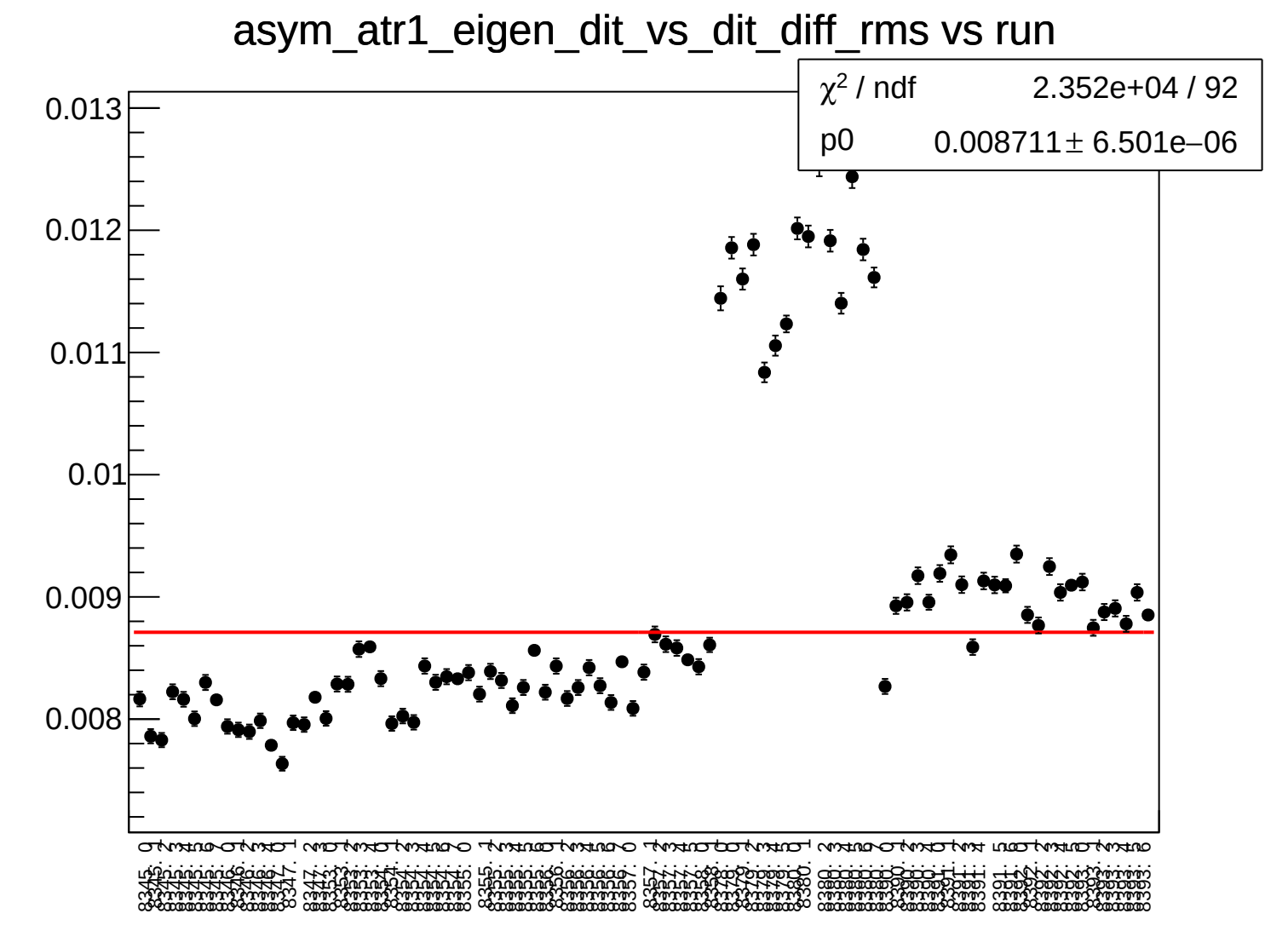

asym_atr1_dit_vs_cor_diff_rms vs run
χ² / ndf 3.498e+05 / 92
p0 91.55 ± 0.07553
450
400
350
300
250
200
150
100
50

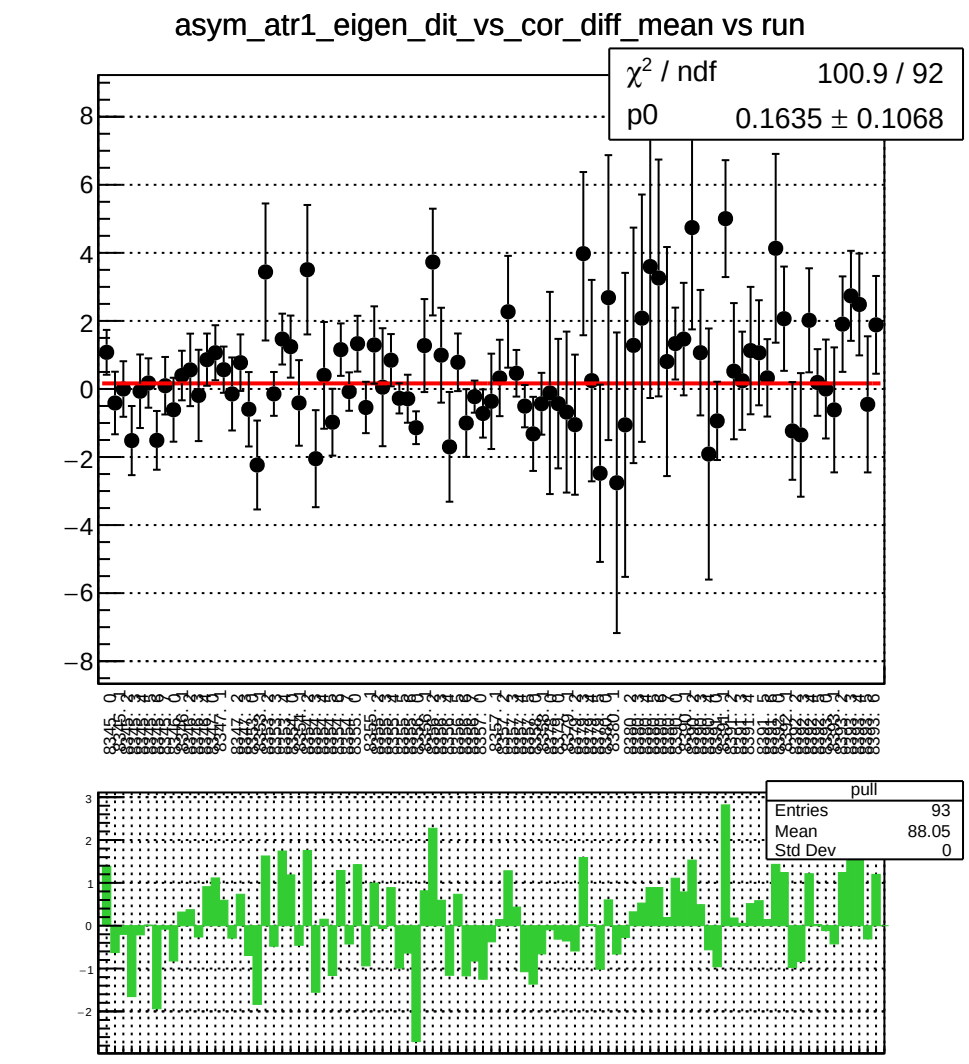

asym_atr1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.9 / 92
p0 0.1635 ± 0.1068
pull
Entries 93
Mean 88.05
Std Dev 0
pull1D
Entries 93
Mean 0.1343
Std Dev 1.033

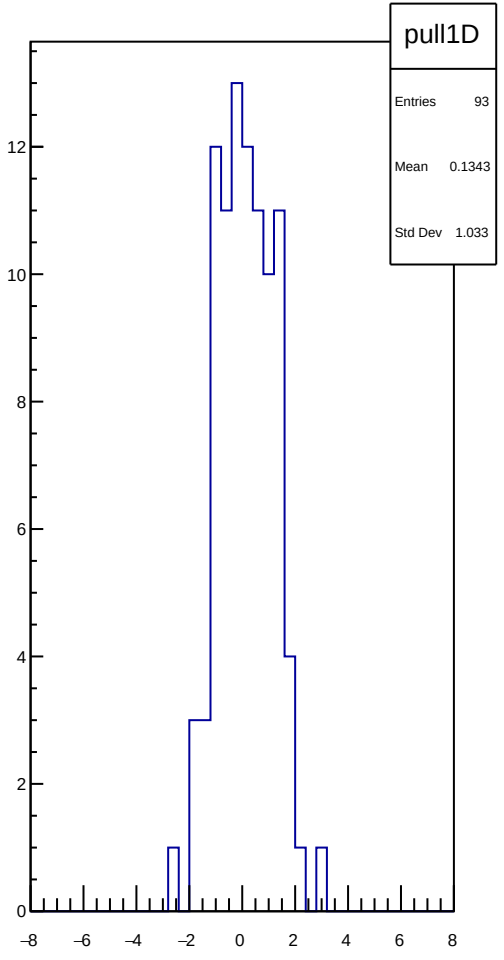

asym_atr1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.498e+05 / 92
p0 91.55 ± 0.07553
450
400
350
300
250
200
150
100
50

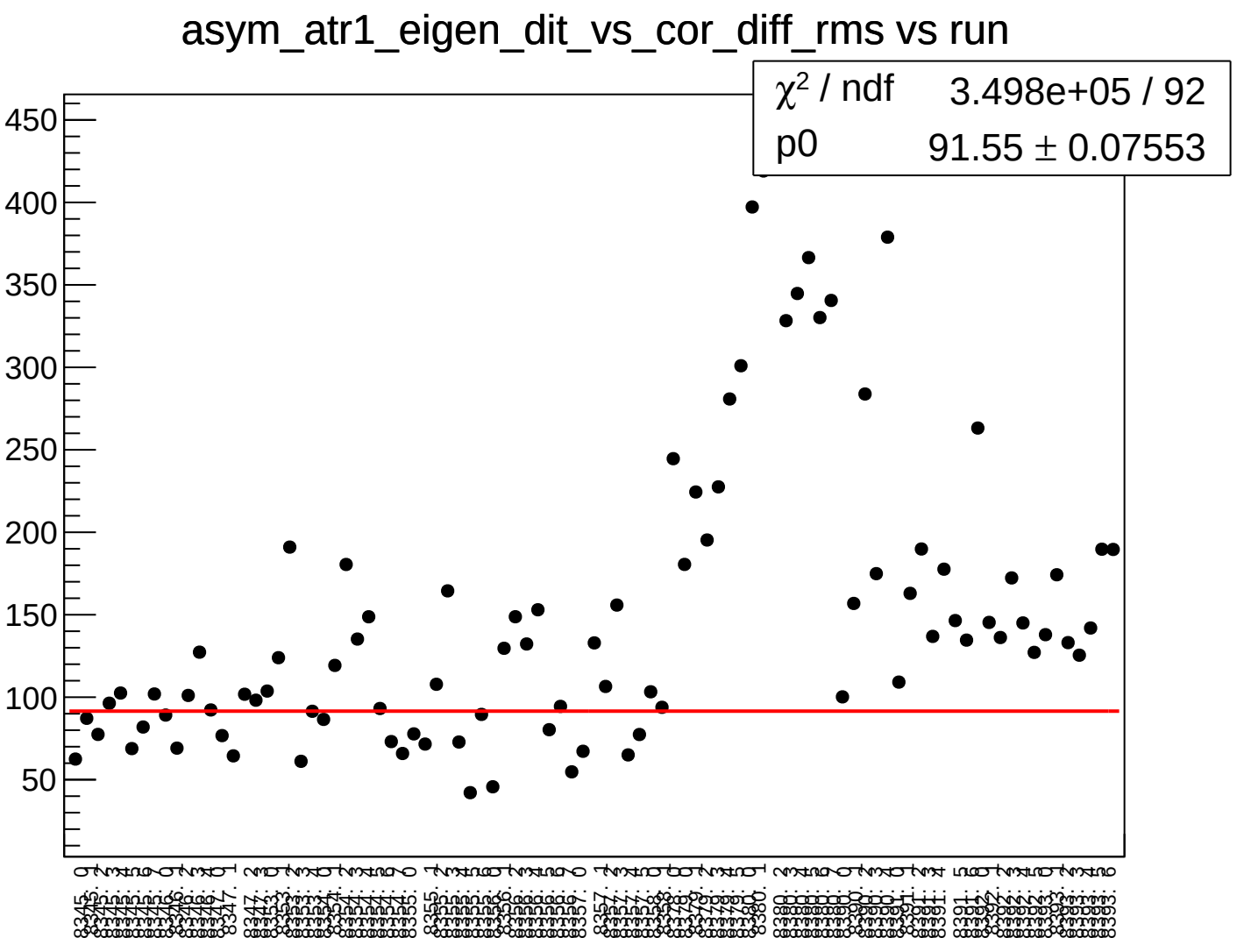

asym_atr1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 113.7 / 92
p0 2.467e−05 ± 9.193e−06
pull
Entries 93
Mean 1096
Std Dev 0

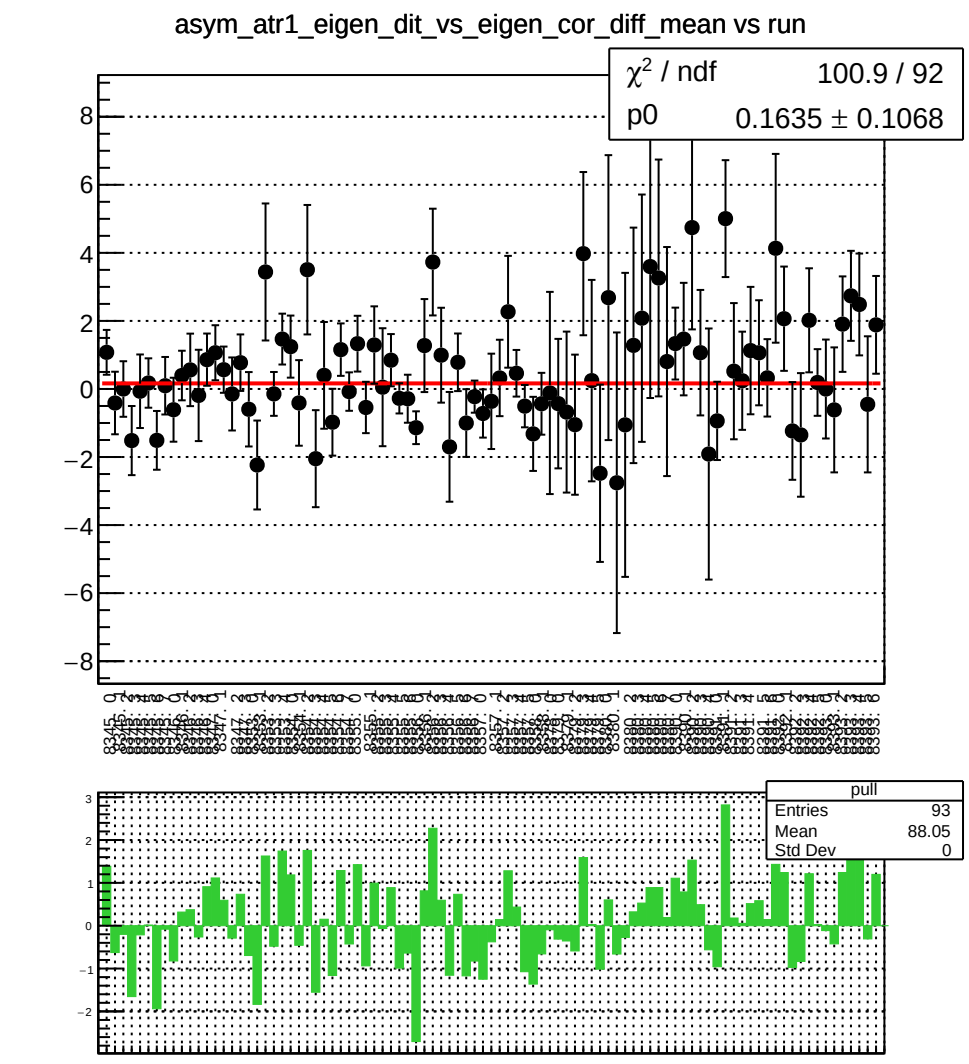

pull1D
Entries 93
Mean 0.006045
Std Dev 1.106

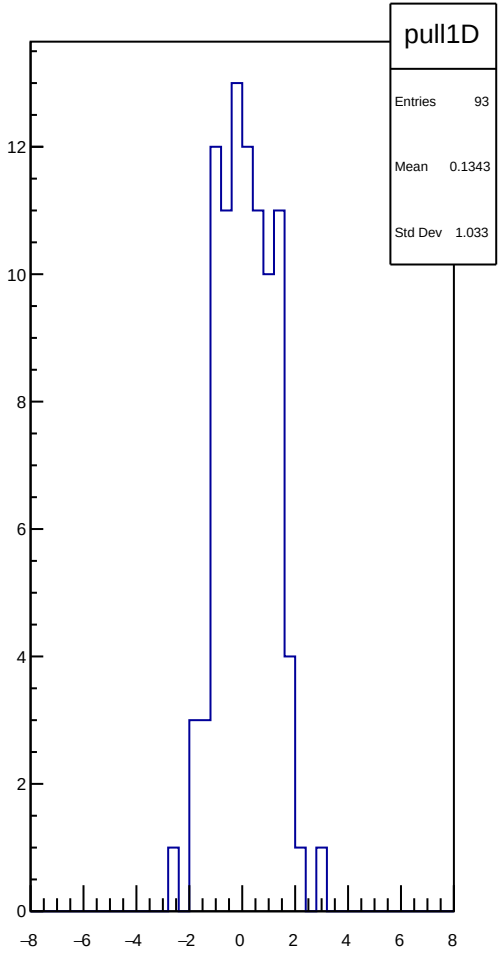

asym_atr1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.352e+04 / 92
p0 0.008711 ± 6.501e−06
0.013
0.012
0.011
0.01
0.009
0.008

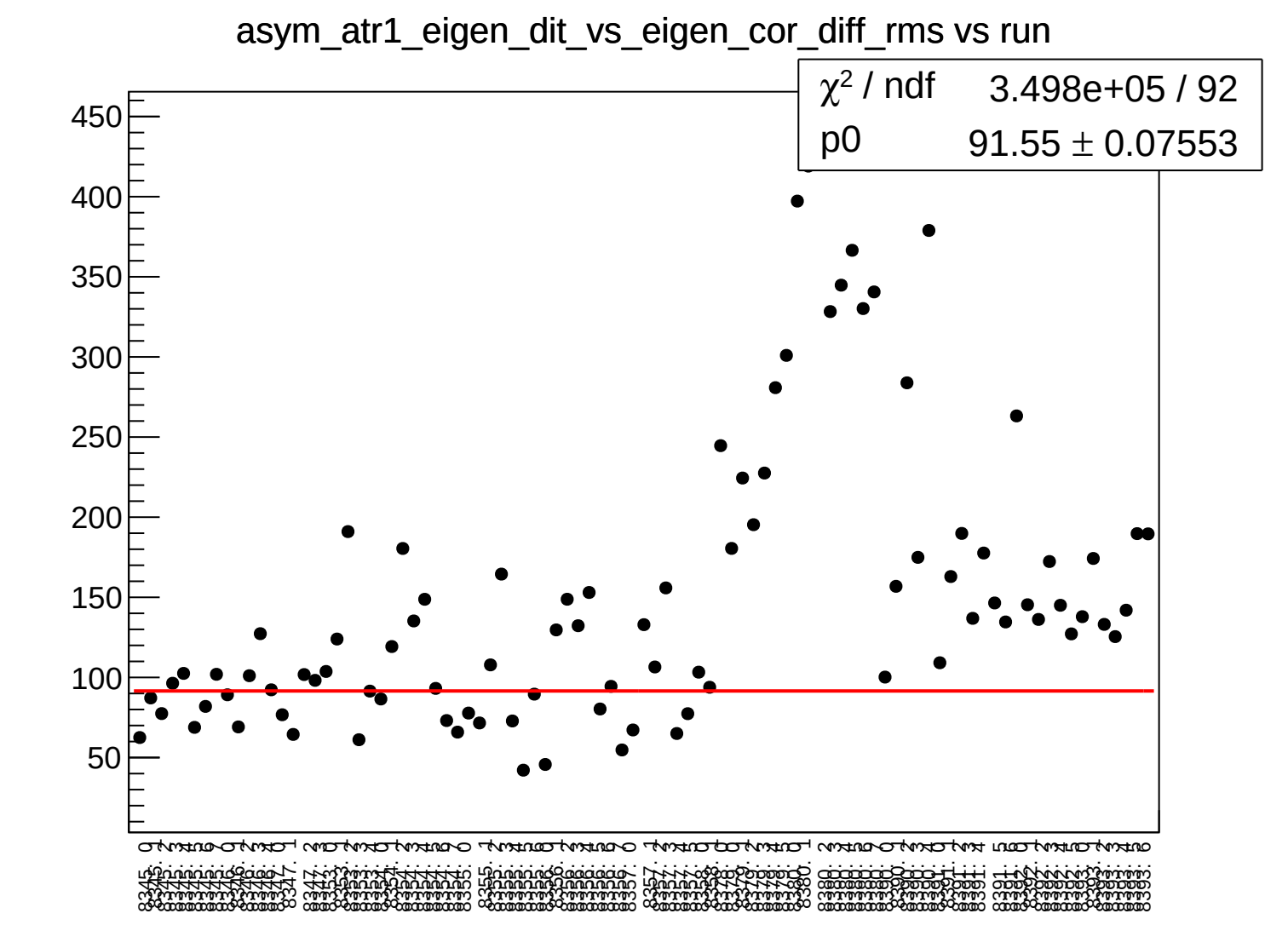

asym_atr1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 100.9 / 92
p0 0.1635 ± 0.1068
pull
Entries 93
Mean 88.05
Std Dev 0

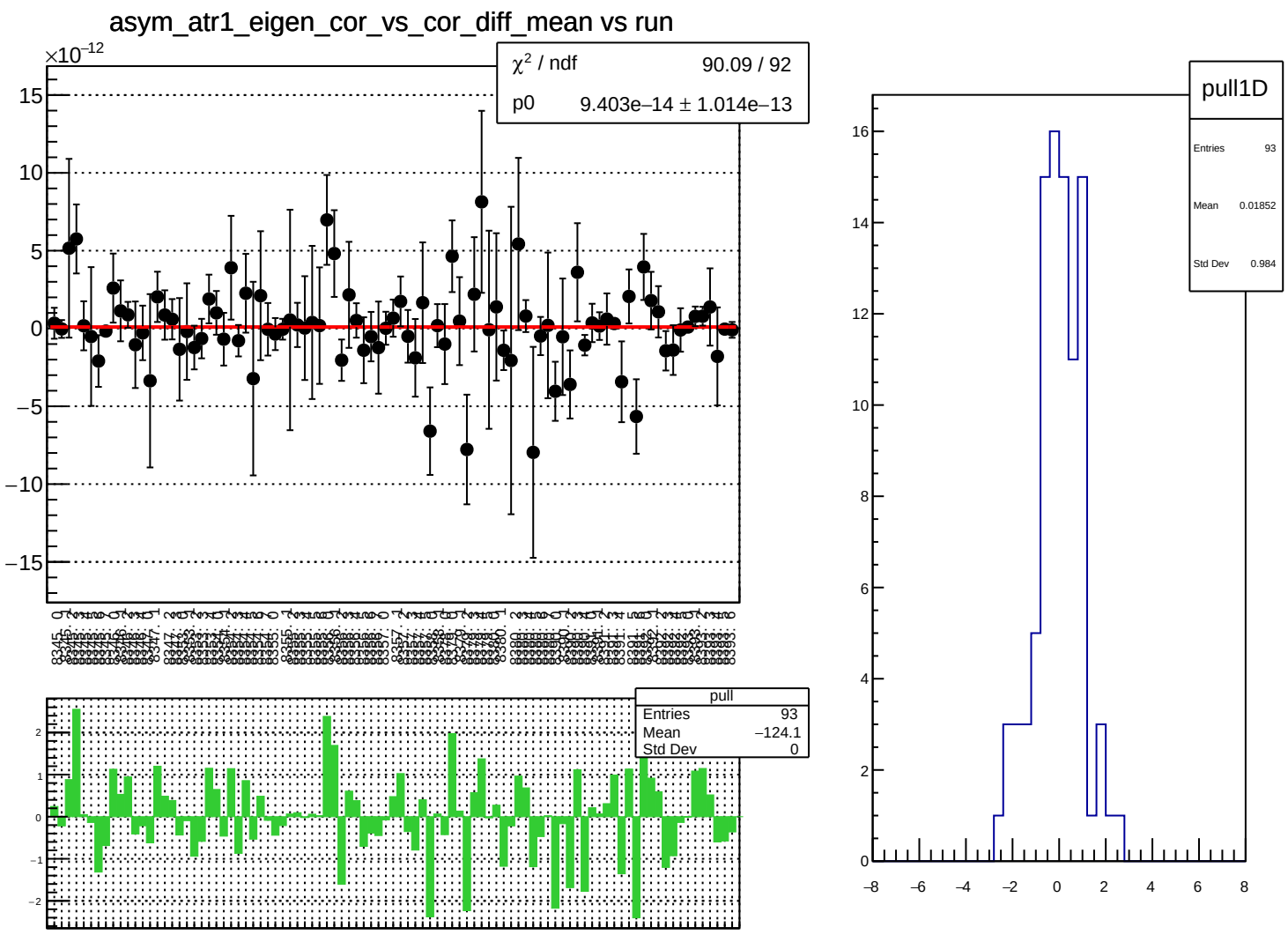

pull1D
Entries 93
Mean 0.1343
Std Dev 1.033

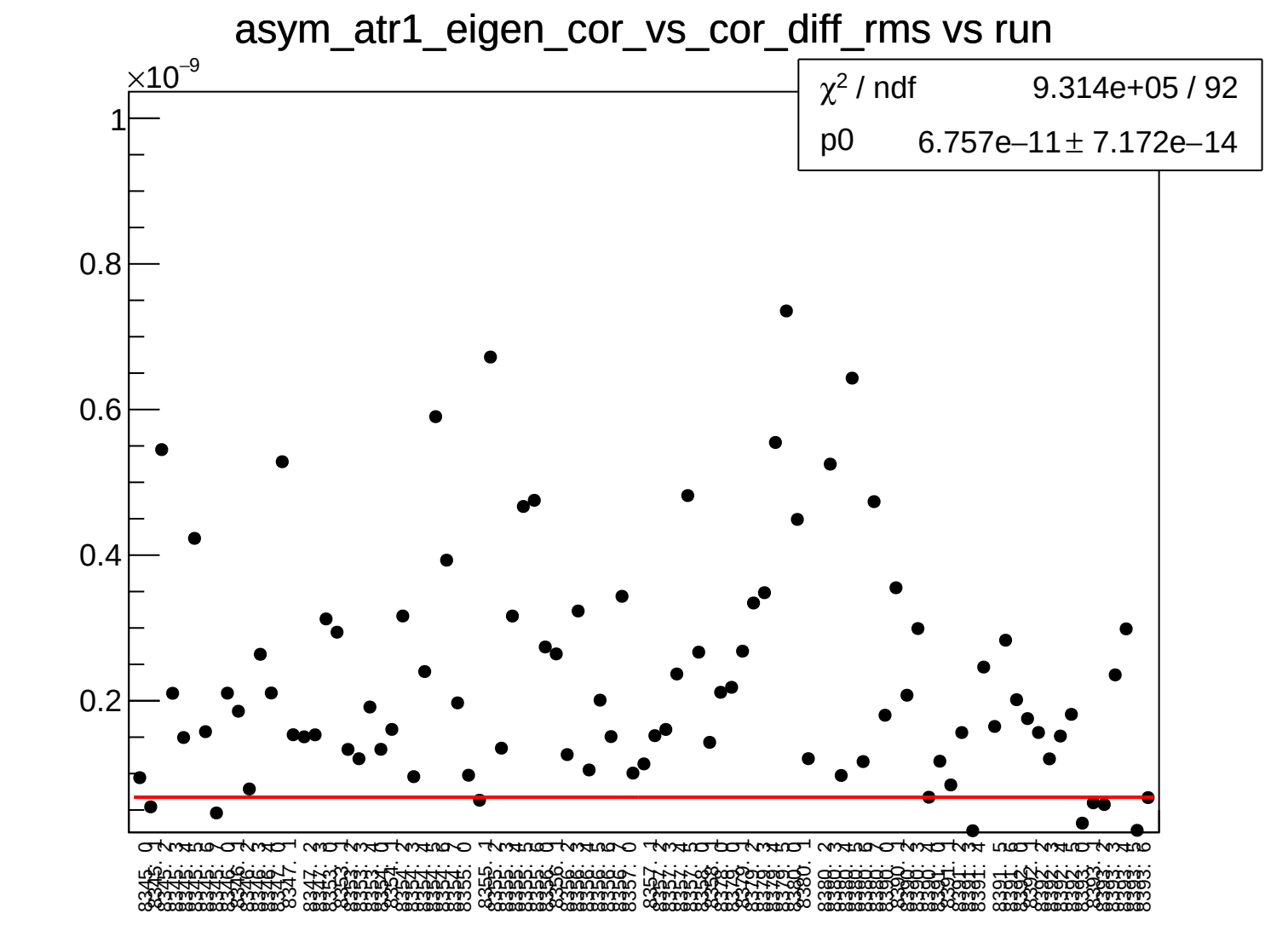

asym_atr1_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.498e+05 / 92
p0 91.55 ± 0.07553
450
400
350
300
250
200
150
100
50

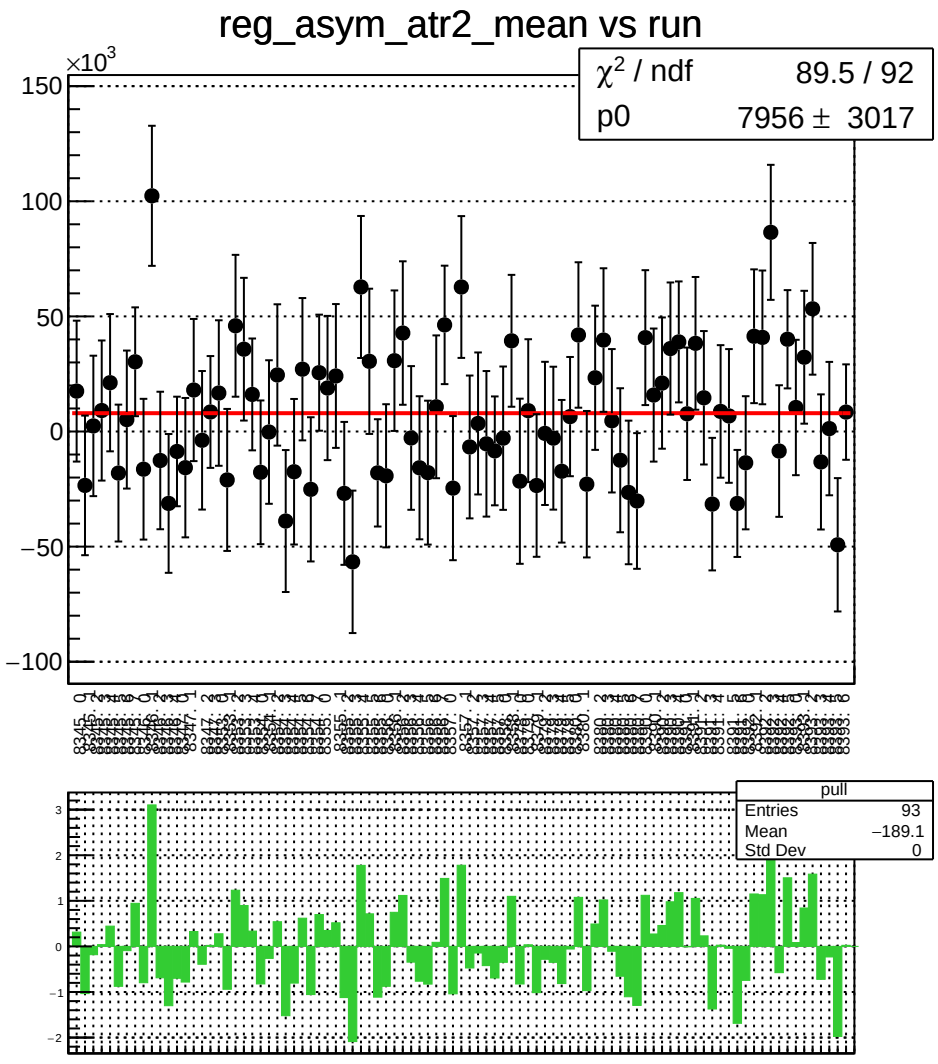

asym_atr1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.9 / 92
p0 0.1635 ± 0.1068
pull
Entries 93
Mean 88.05
Std Dev 0

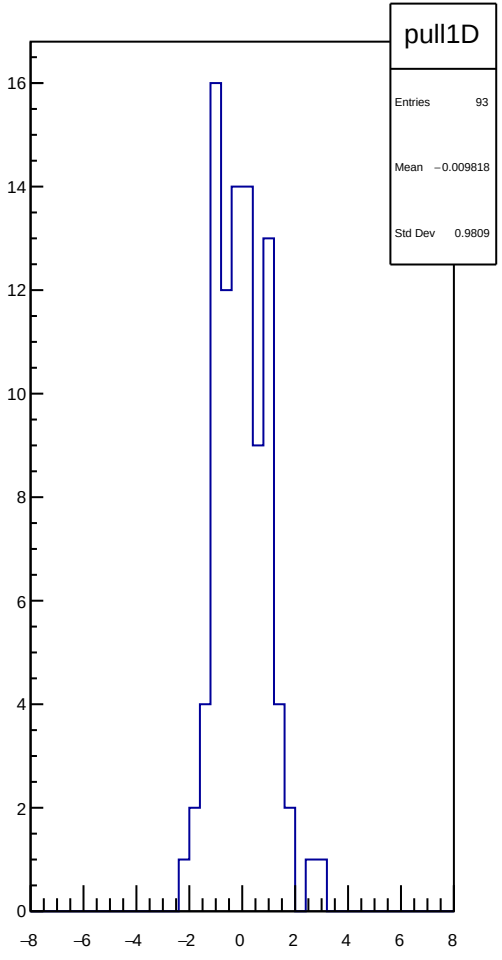

pull1D
Entries 93
Mean 0.1343
Std Dev 1.033

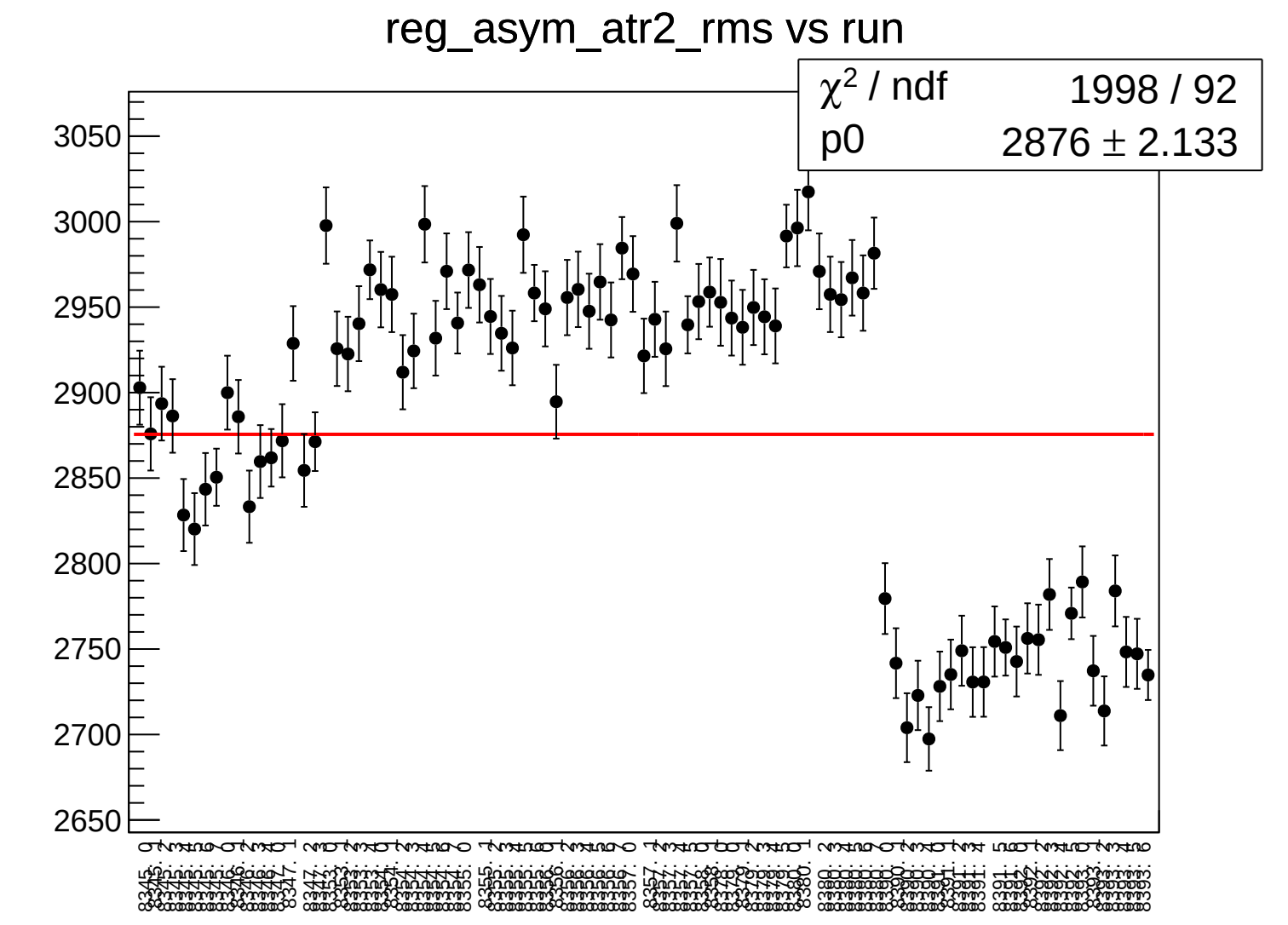

asym_atr1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.498e+05 / 92
p0 91.55 ± 0.07553
450
400
350
300
250
200
150
100
50

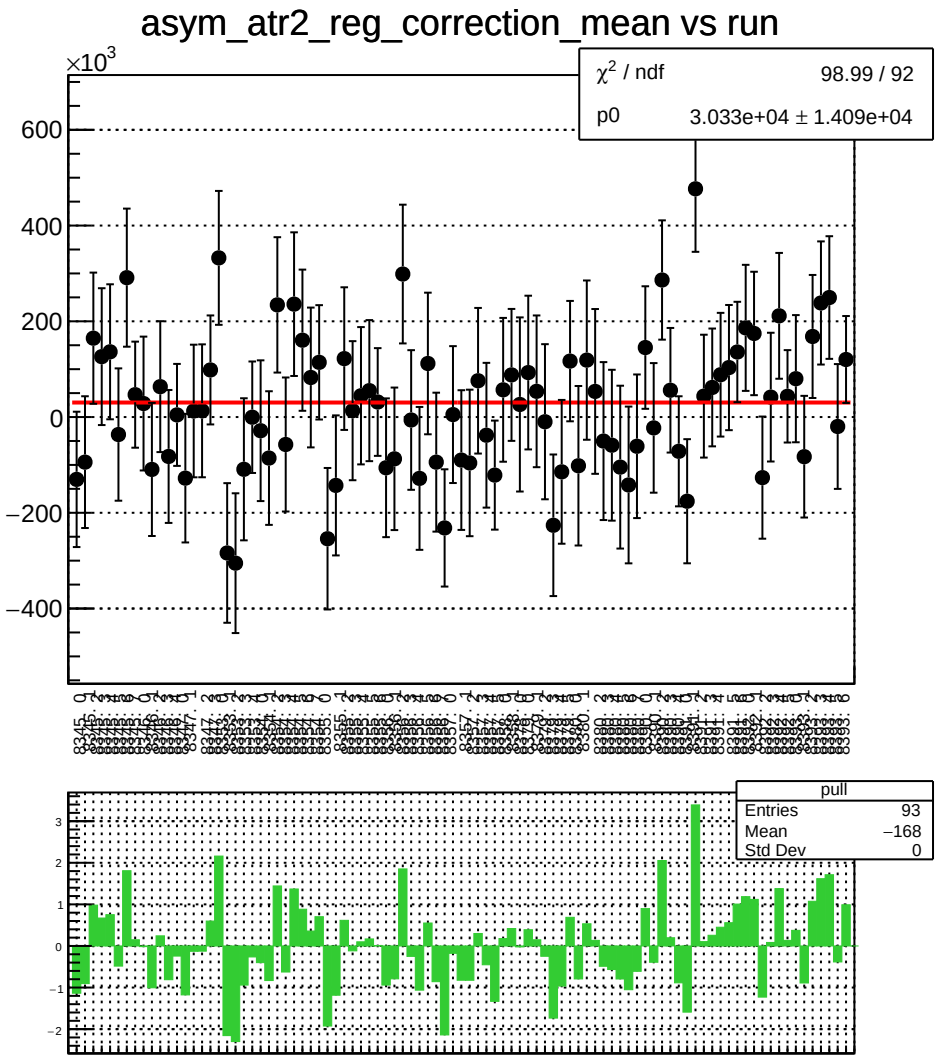

asym_atr1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.09 / 92
p0 9.403e−14 ± 1.014e−13
pull
Entries 93
Mean −124.1
Std Dev 0
pull1D
Entries 93
Mean 0.01852
Std Dev 0.984

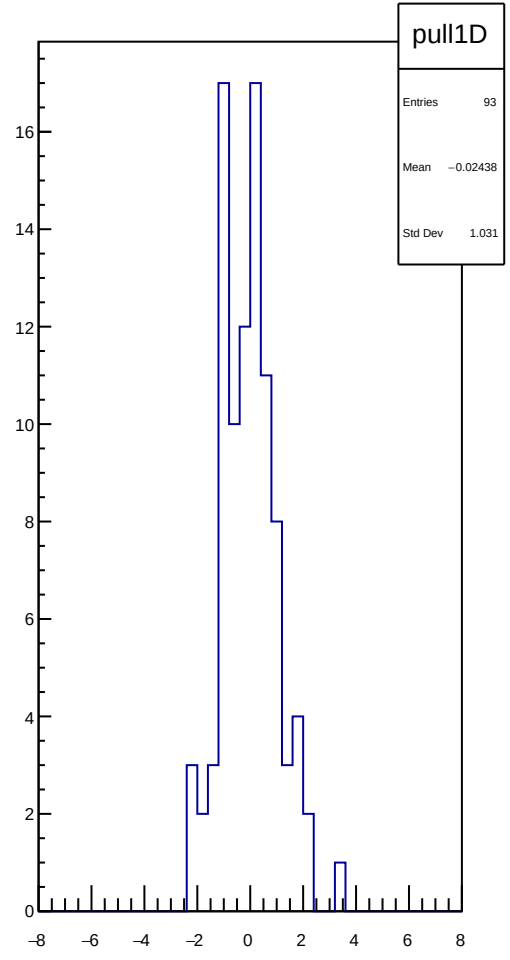

asym_atr1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.314e+05 / 92
p0 6.757e−11 ± 7.172e−14
1
0.8
0.6
0.4
0.2

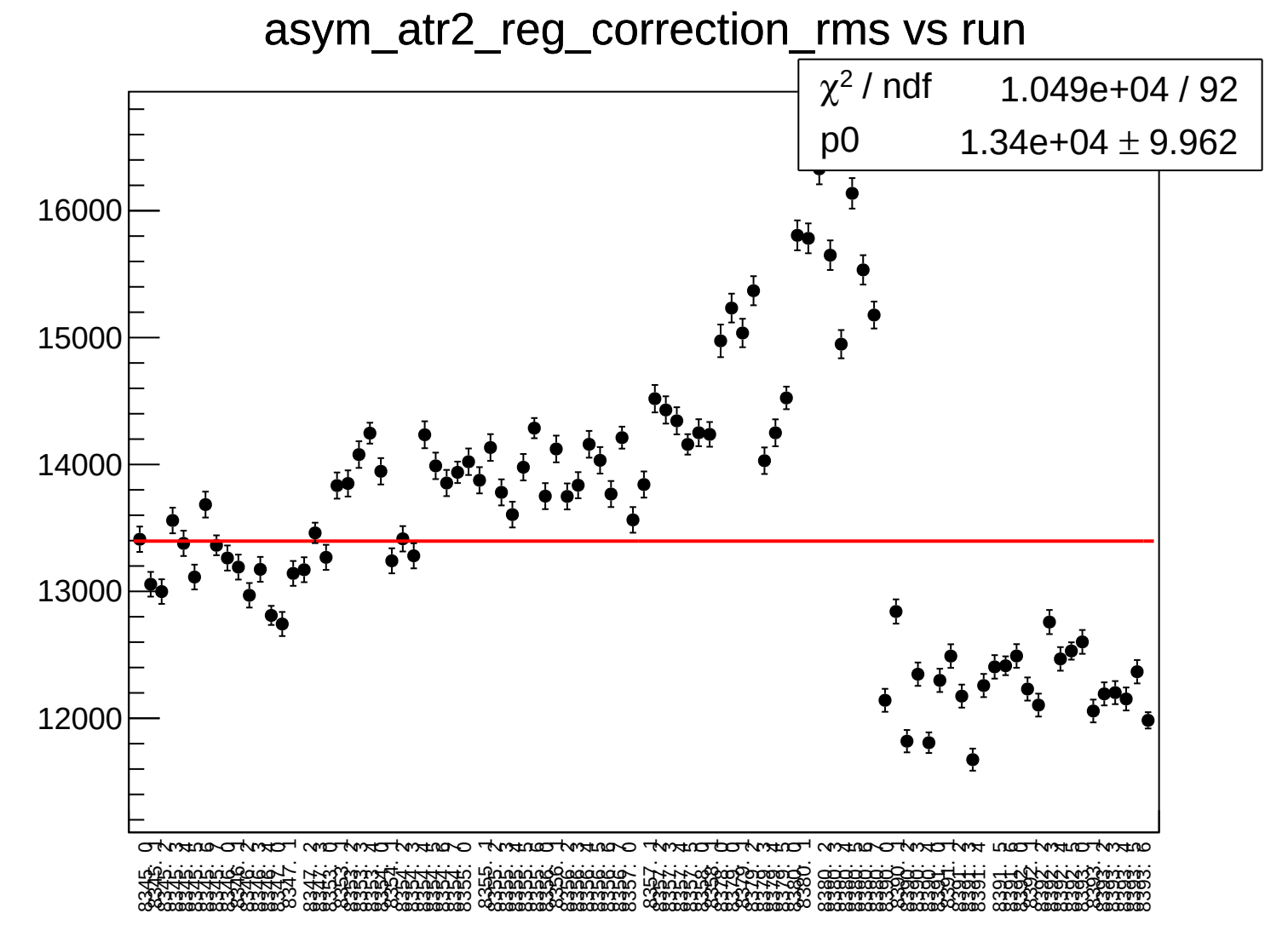

reg_asym_atr2_mean vs run
×10^3
χ² / ndf 89.5 / 92
p0 7956 ± 3017
150
100
50
0
−50
−100
pull
Entries 93
Mean −189.1
Std Dev 0
3
2
1
0
−1
−2

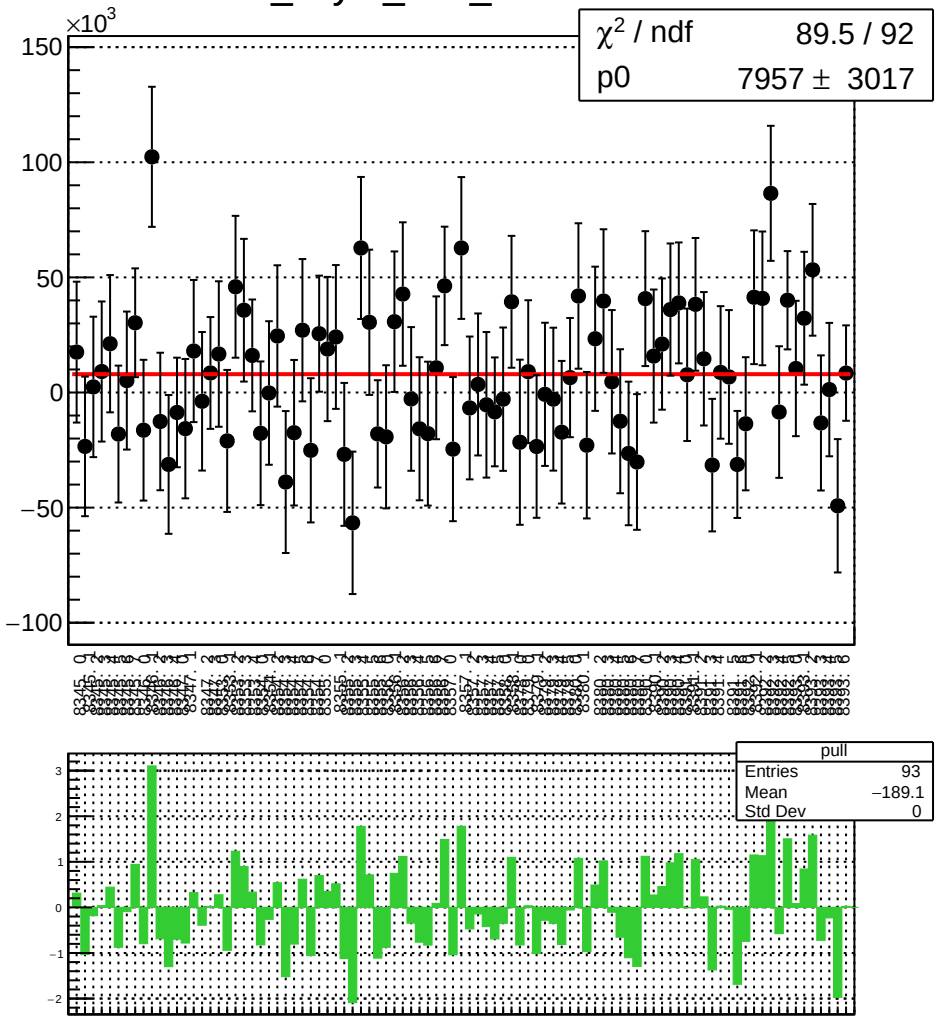

pull1D
Entries 93
Mean −0.009818
Std Dev 0.9809
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

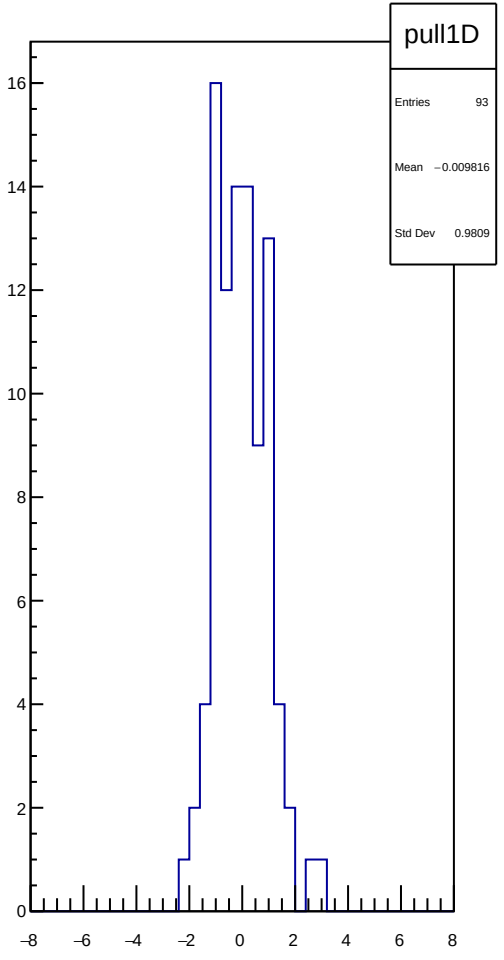

reg_asym_atr2_rms vs run
χ² / ndf 1998 / 92
p0 2876 ± 2.133
3050
3000
2950
2900
2850
2800
2750
2700
2650

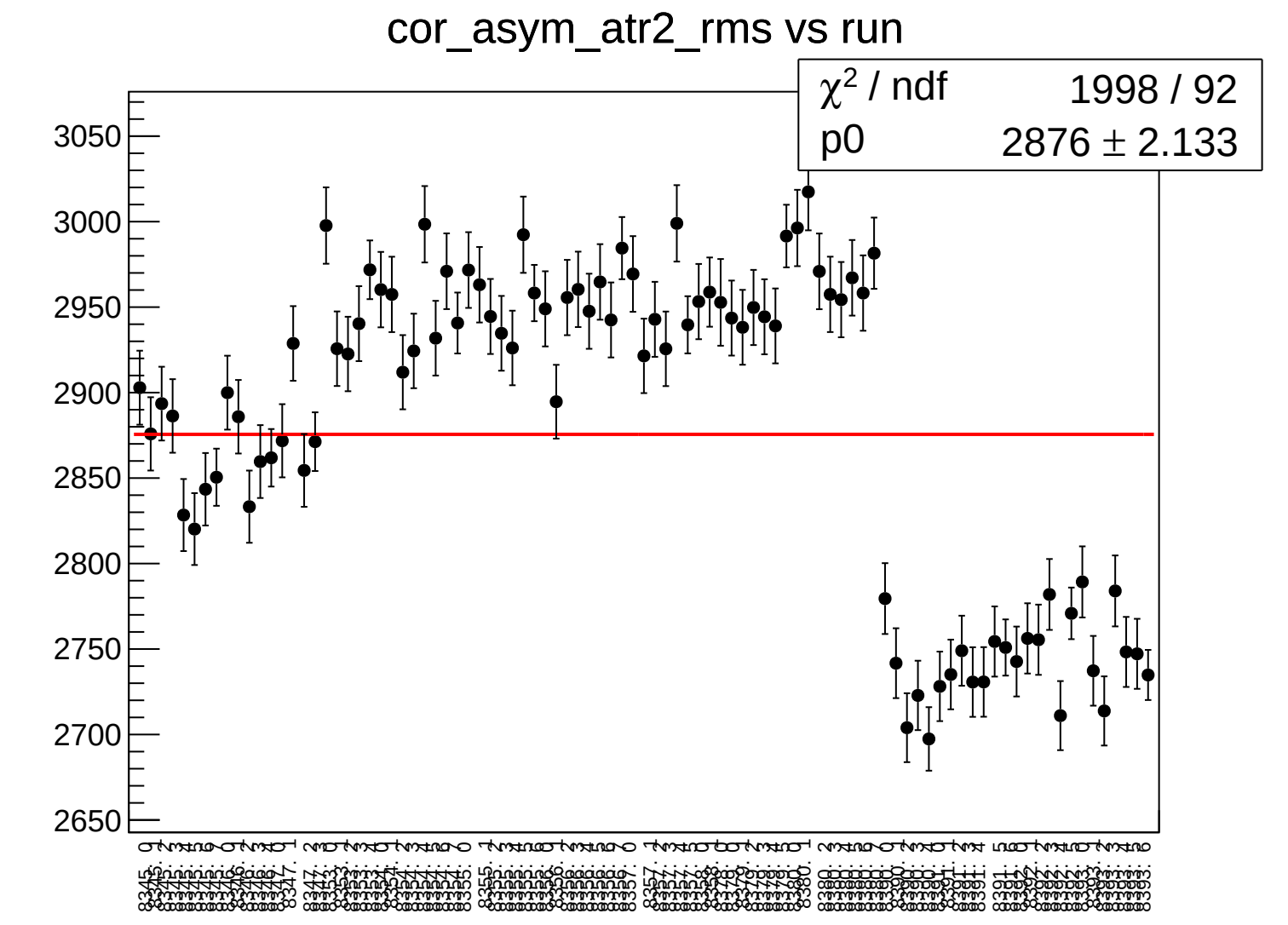

asym_atr2_reg_correction_mean vs run
×10^3
χ² / ndf 98.99 / 92
p0 3.033e+04 ± 1.409e+04
600
400
200
0
−200
−400
pull
Entries 93
Mean −168
Std Dev 0
3
2
1
0
−1
−2

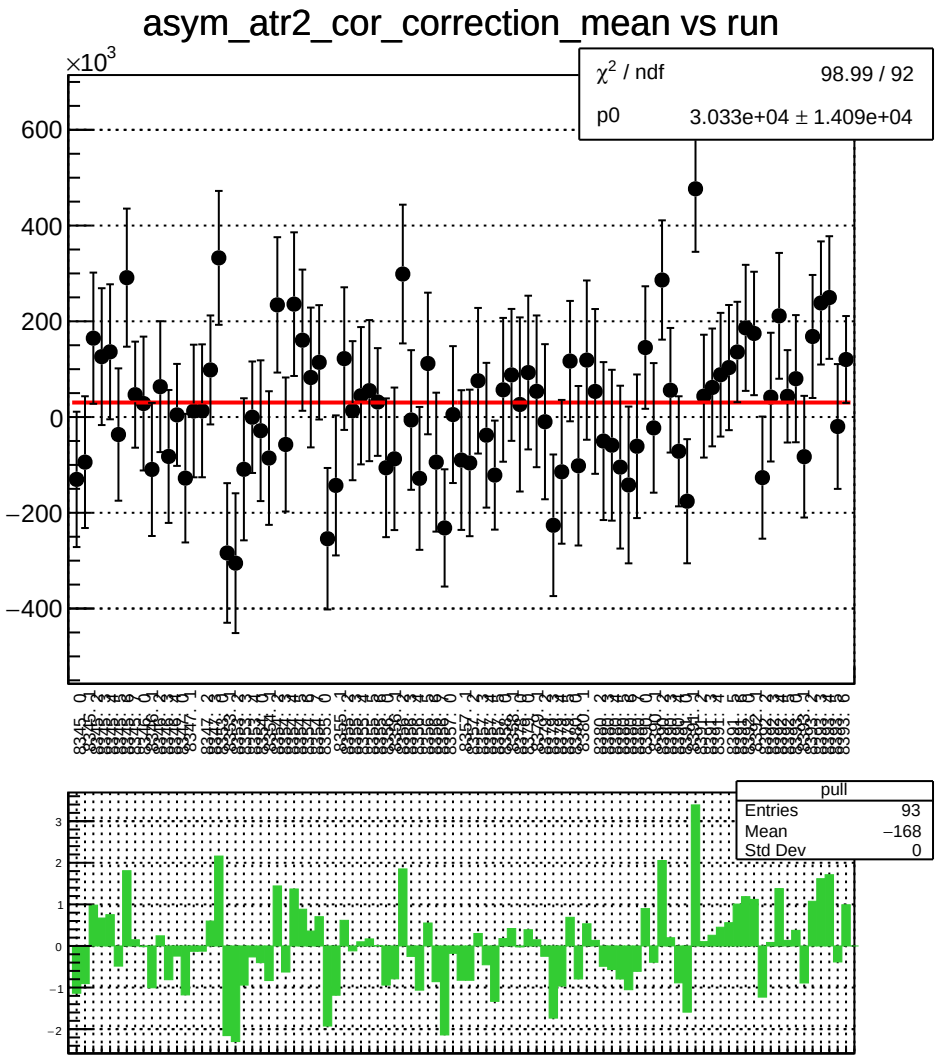

pull1D
Entries 93
Mean −0.02438
Std Dev 1.031
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

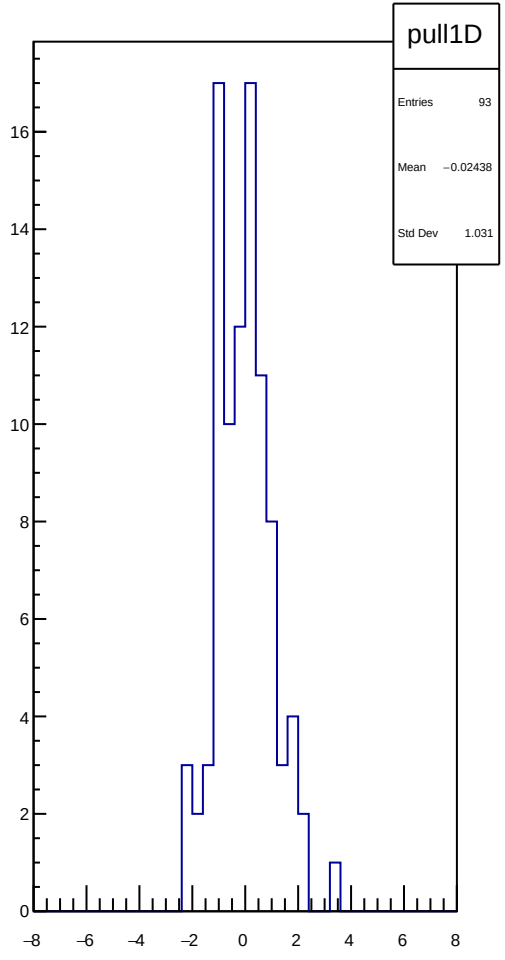

asym_atr2_reg_correction_rms vs run
χ² / ndf 1.049e+04 / 92
p0 1.34e+04 ± 9.962
16000
15000
14000
13000
12000

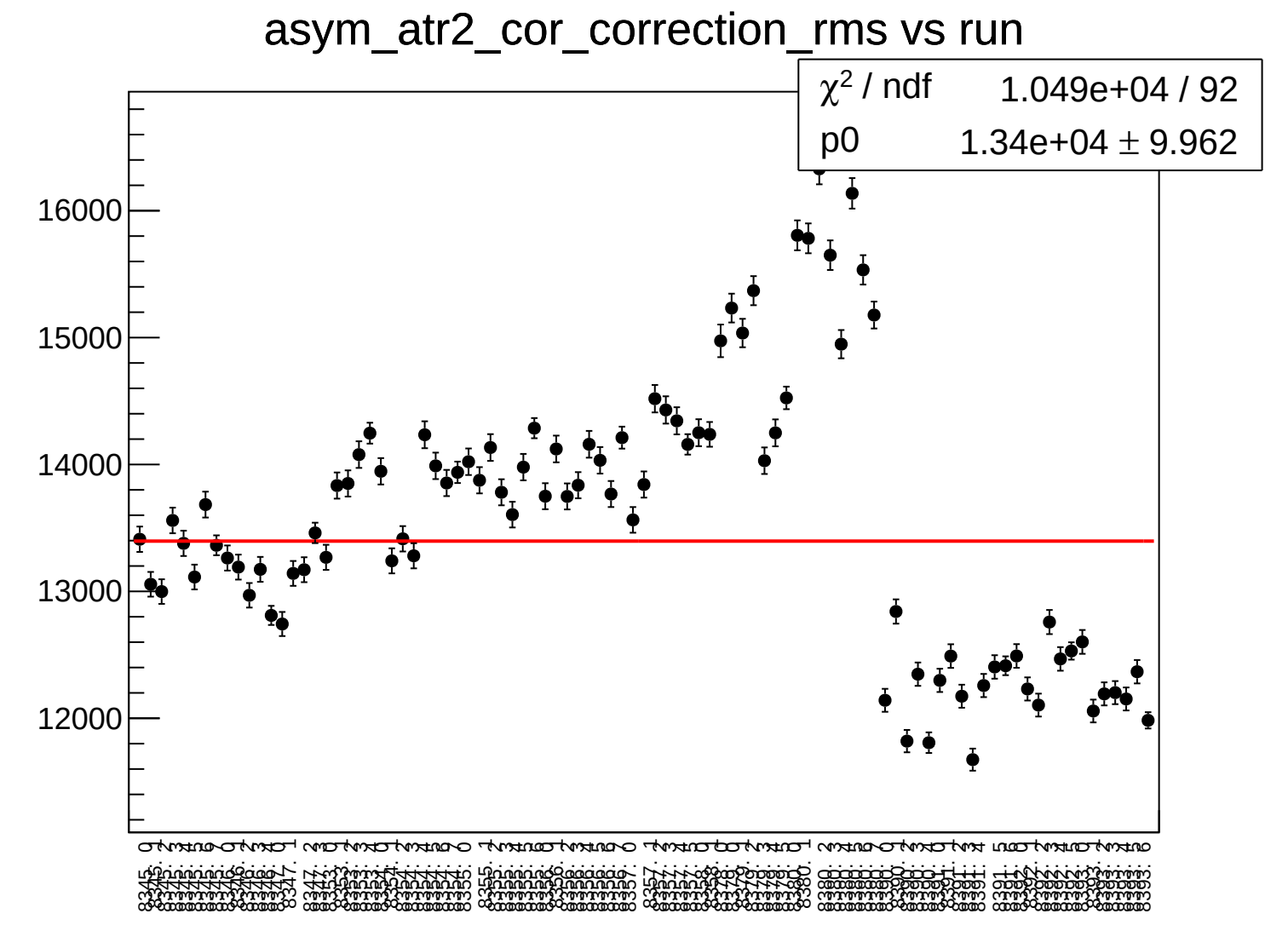

cor_asym_atr2_mean vs run
×10^3
χ² / ndf 89.5 / 92
p0 7957 ± 3017
150
100
50
0
−50
−100
pull
Entries 93
Mean −189.1
Std Dev 0
3
2
1
0
−1
−2

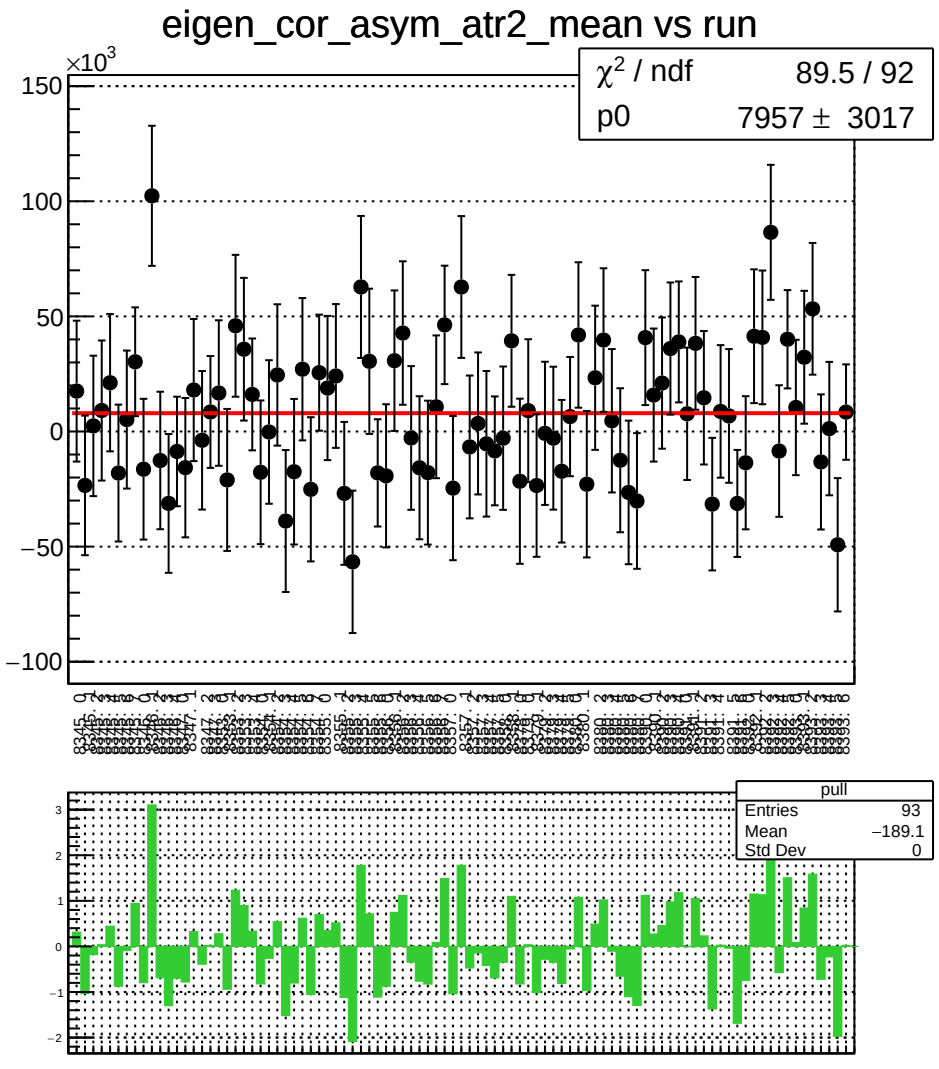

pull1D
Entries 93
Mean −0.009816
Std Dev 0.9809
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

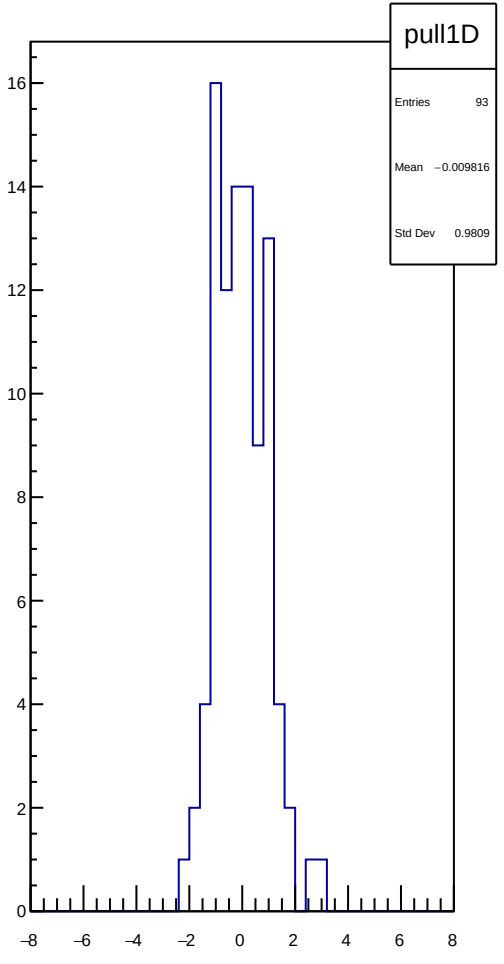

cor_asym_atr2_rms vs run
χ² / ndf 1998 / 92
p0 2876 ± 2.133
3050
3000
2950
2900
2850
2800
2750
2700
2650

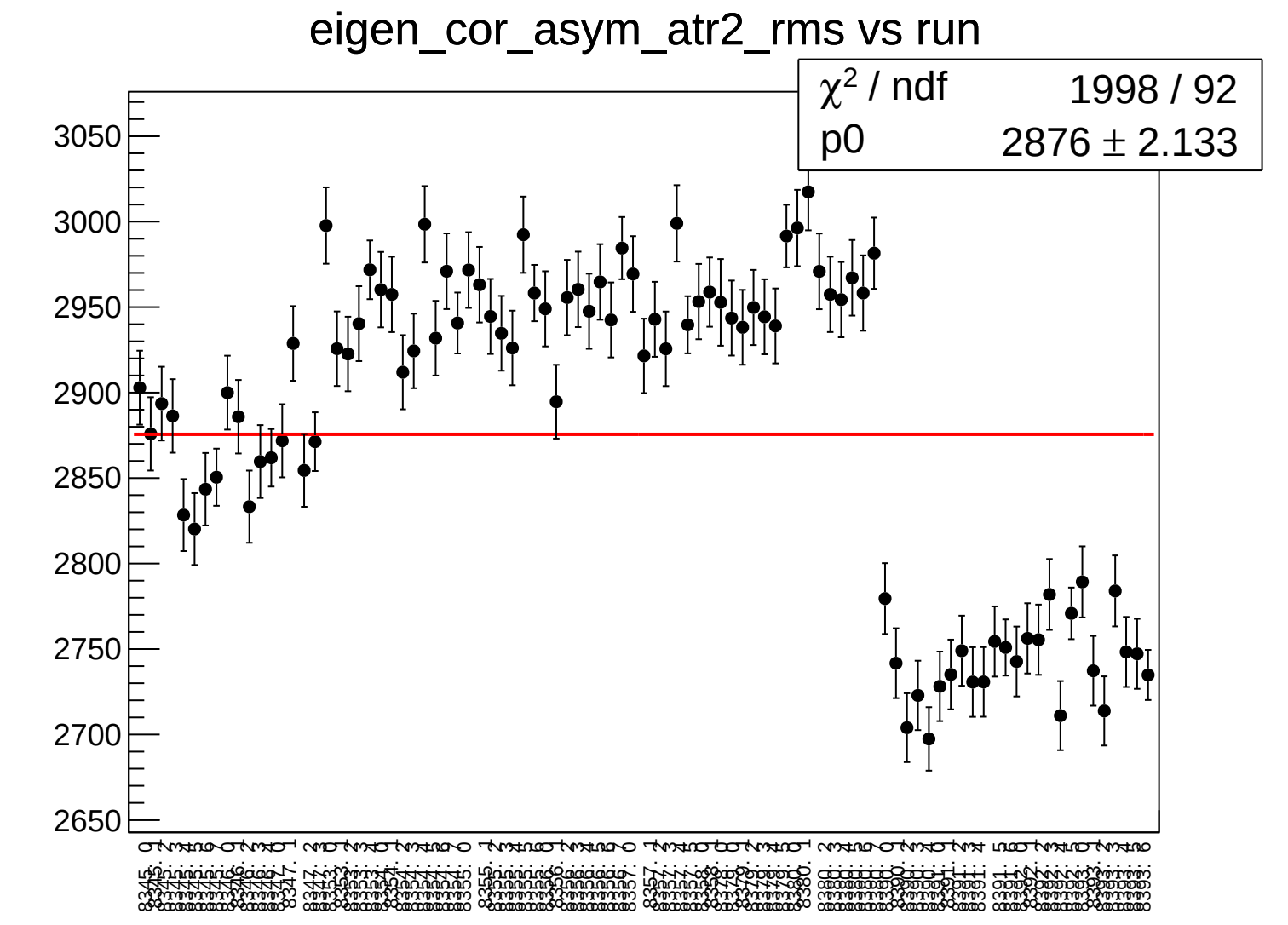

asym_atr2_cor_correction_mean vs run
×10^3
χ² / ndf 98.99 / 92
p0 3.033e+04 ± 1.409e+04
600
400
200
0
−200
−400
pull
Entries 93
Mean −168
Std Dev 0
3
2
1
0
−1
−2

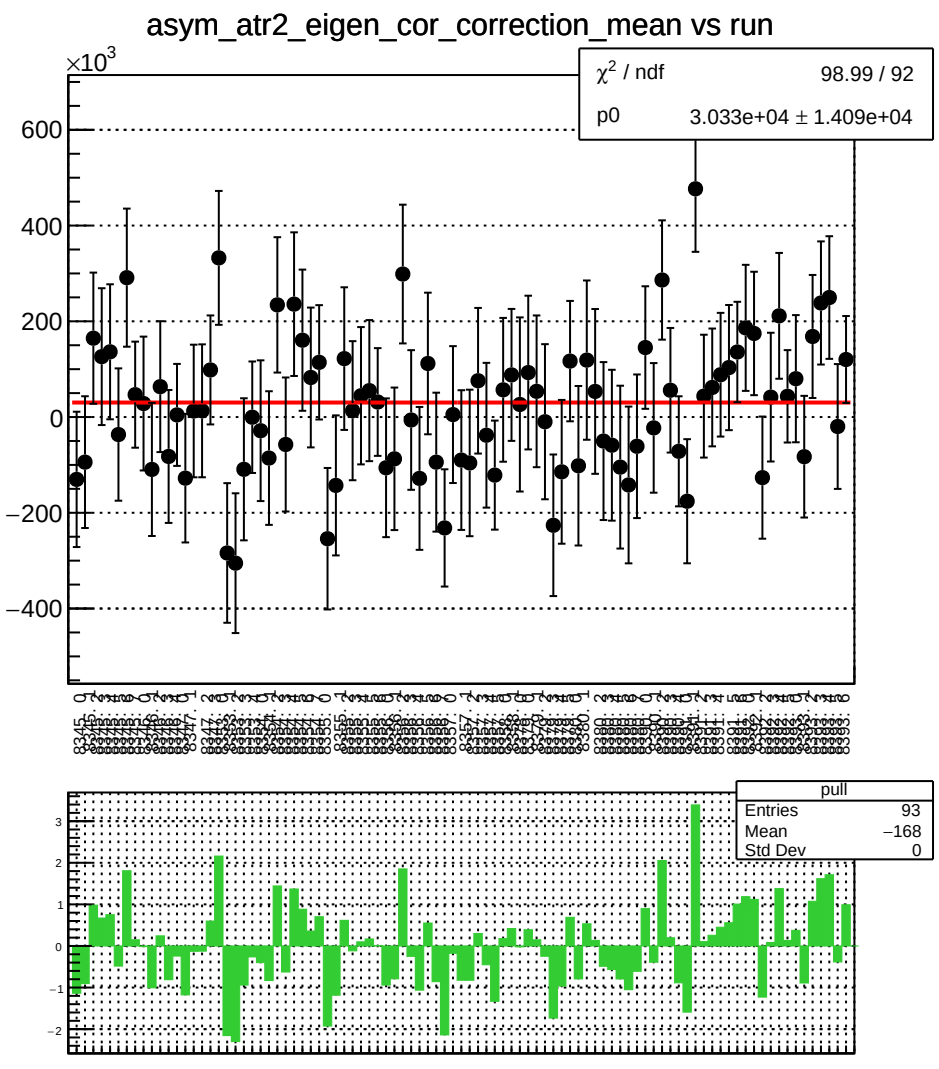

pull1D
Entries 93
Mean −0.02438
Std Dev 1.031
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

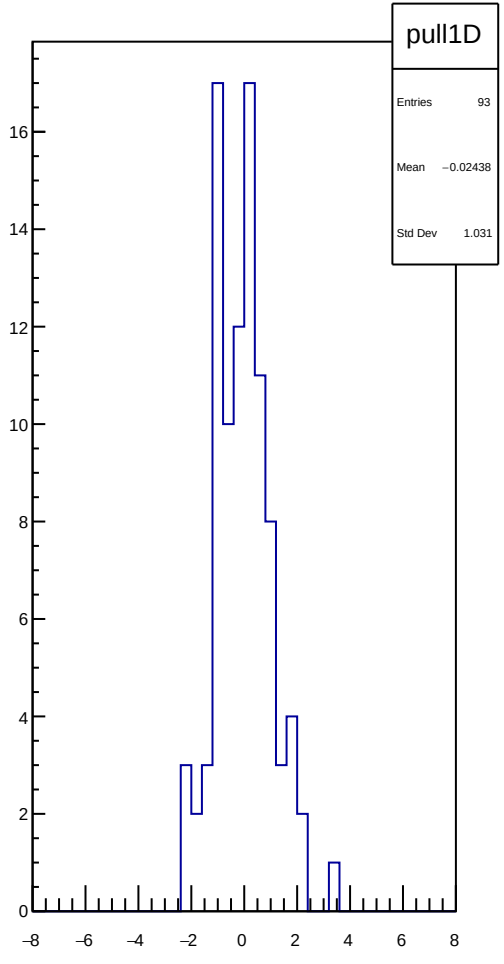

asym_atr2_cor_correction_rms vs run
χ² / ndf 1.049e+04 / 92
p0 1.34e+04 ± 9.962
16000
15000
14000
13000
12000

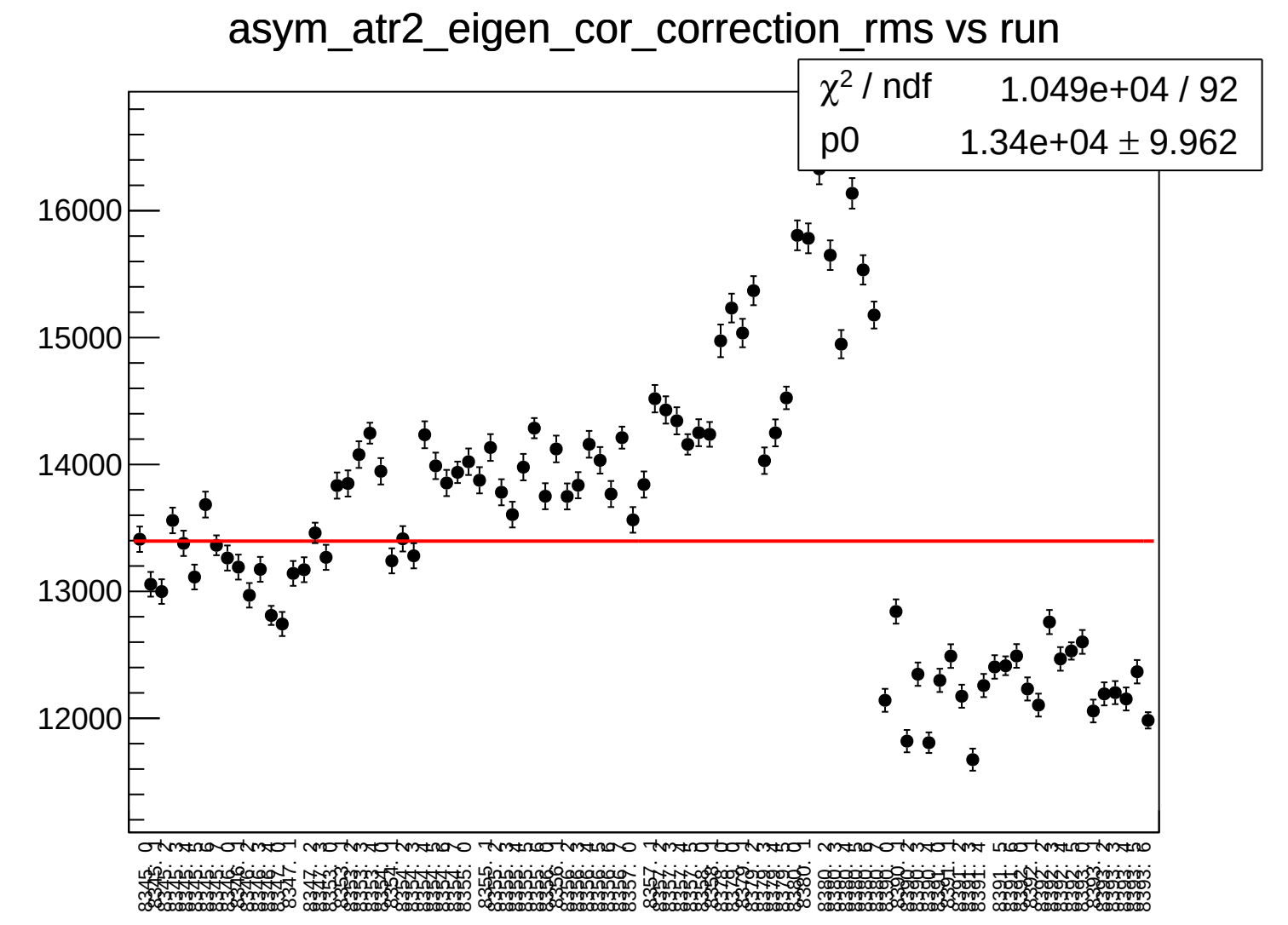

eigen_cor_asym_atr2_mean vs run
×10^3
χ² / ndf 89.5 / 92
p0 7957 ± 3017
150
100
50
0
−50
−100
pull
Entries 93
Mean −189.1
Std Dev 0
3
2
1
0
−1
−2

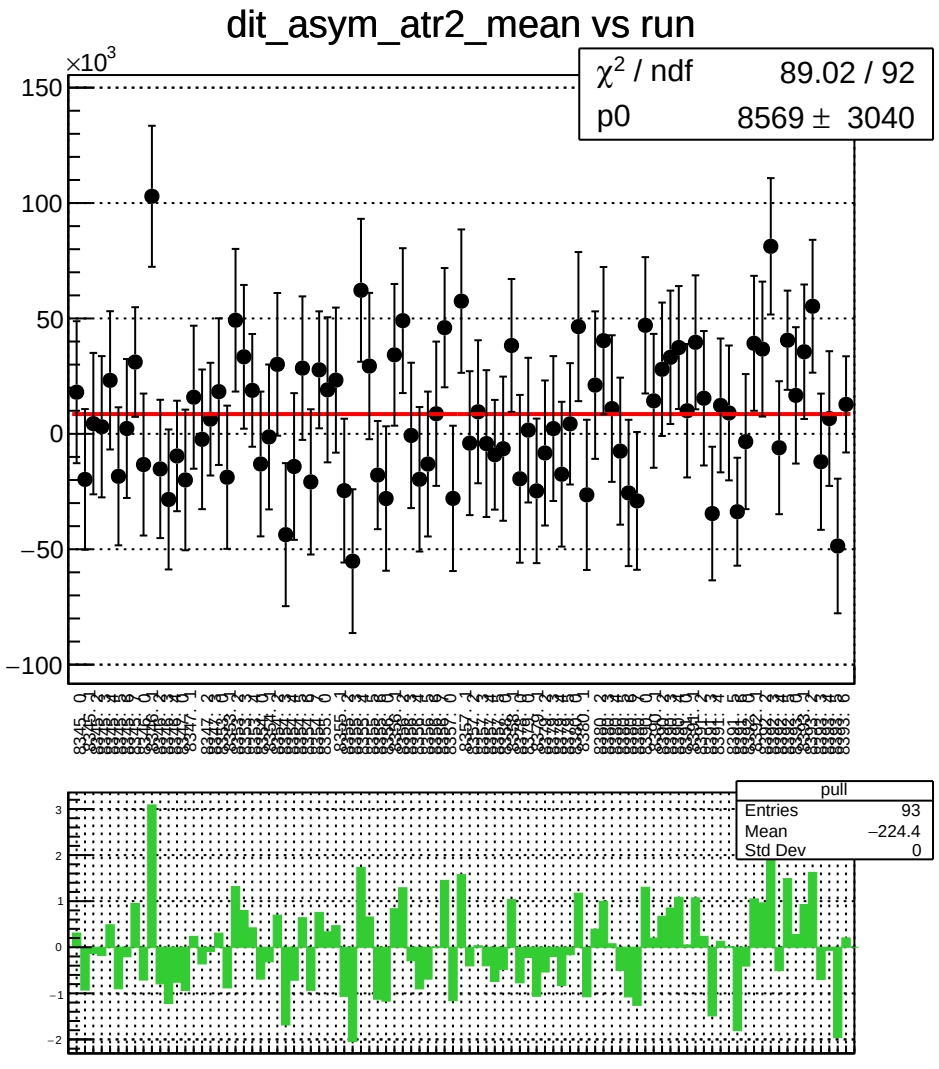

pull1D
Entries 93
Mean −0.009816
Std Dev 0.9809
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

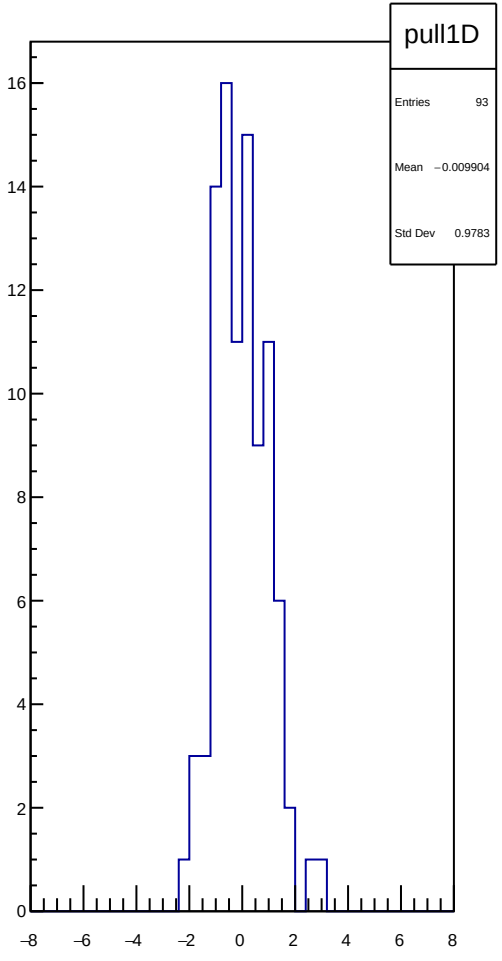

eigen_cor_asym_atr2_rms vs run
χ^2 / ndf 1998 / 92
p0 2876 ± 2.133
3050
3000
2950
2900
2850
2800
2750
2700
2650

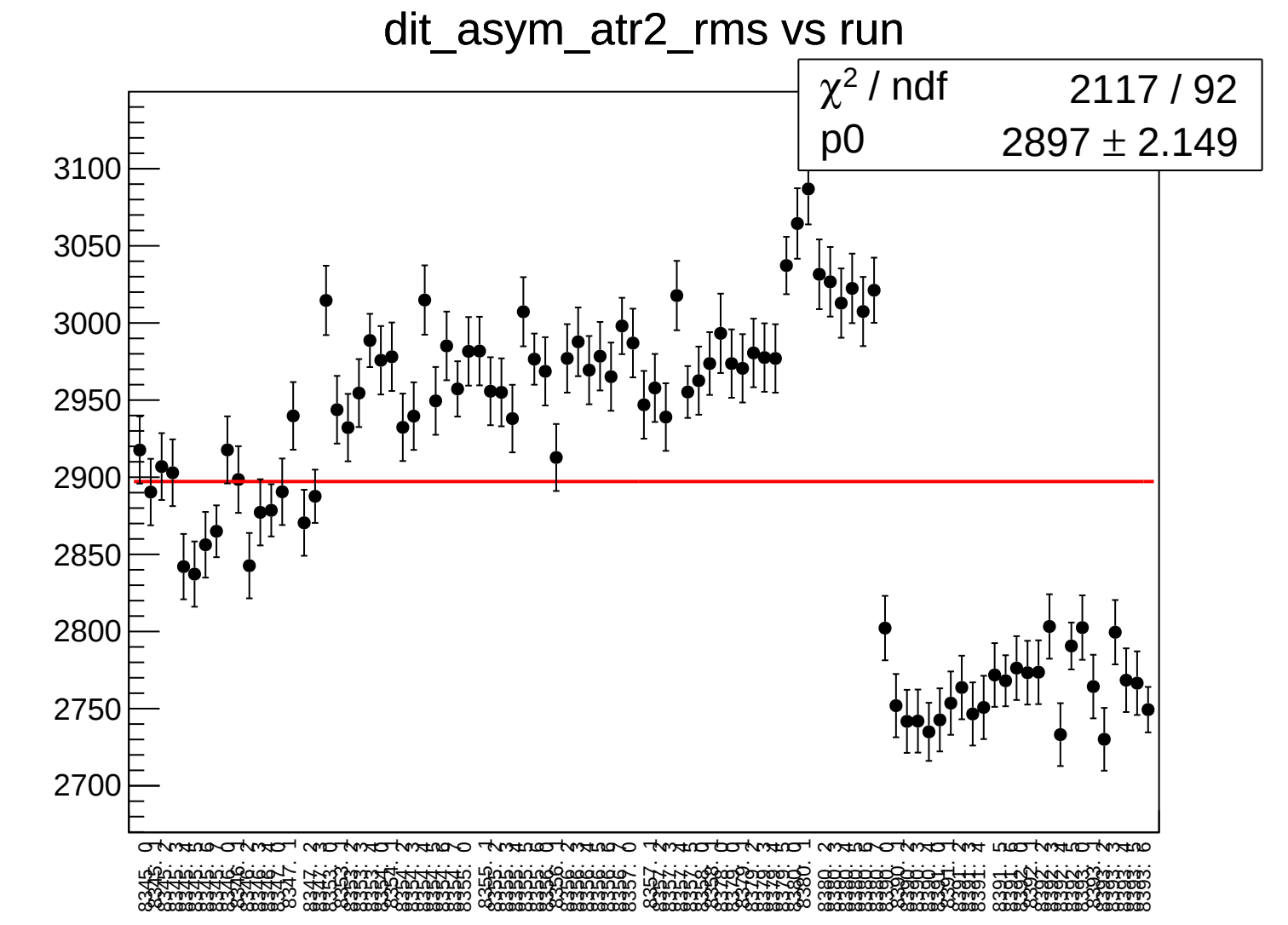

asym_atr2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 98.99 / 92
p0 3.033e+04 ± 1.409e+04
pull
Entries 93
Mean −168
Std Dev 0

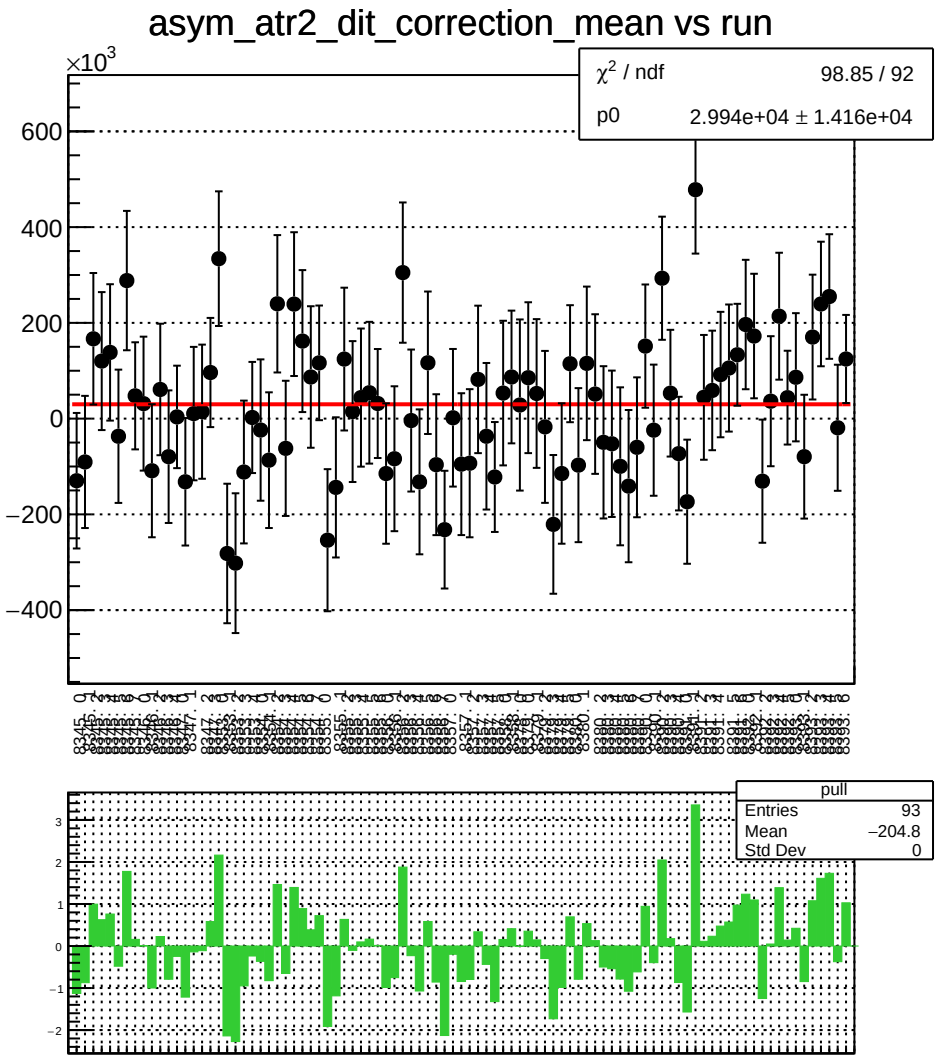

pull1D
Entries 93
Mean −0.02438
Std Dev 1.031

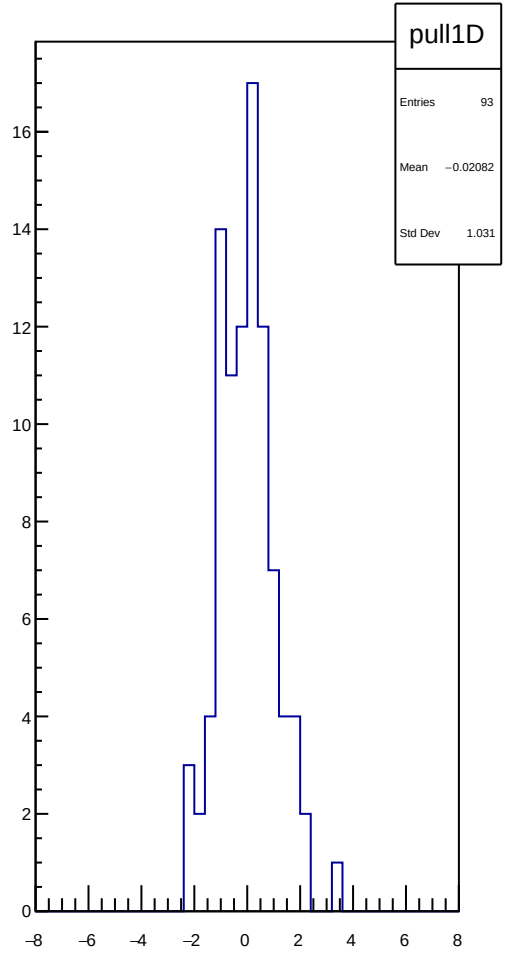

asym_atr2_eigen_cor_correction_rms vs run
χ² / ndf 1.049e+04 / 92
p0 1.34e+04 ± 9.962
16000
15000
14000
13000
12000

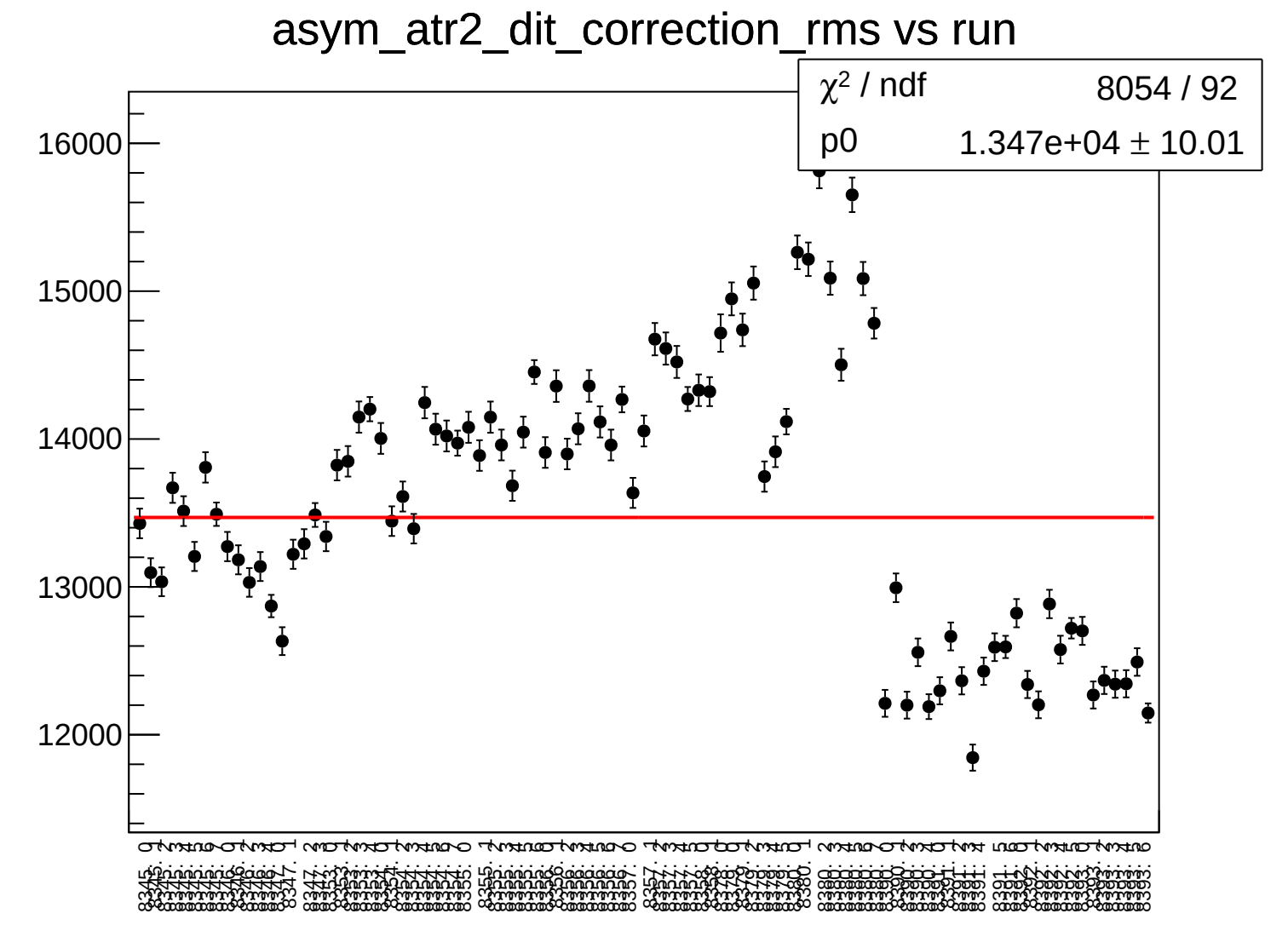

dit_asym_atr2_mean vs run
×10^3
χ^2 / ndf 89.02 / 92
p0 8569 ± 3040
150
100
50
0
−50
−100
pull
Entries 93
Mean −224.4
Std Dev 0
3
2
1
0
−1
−2

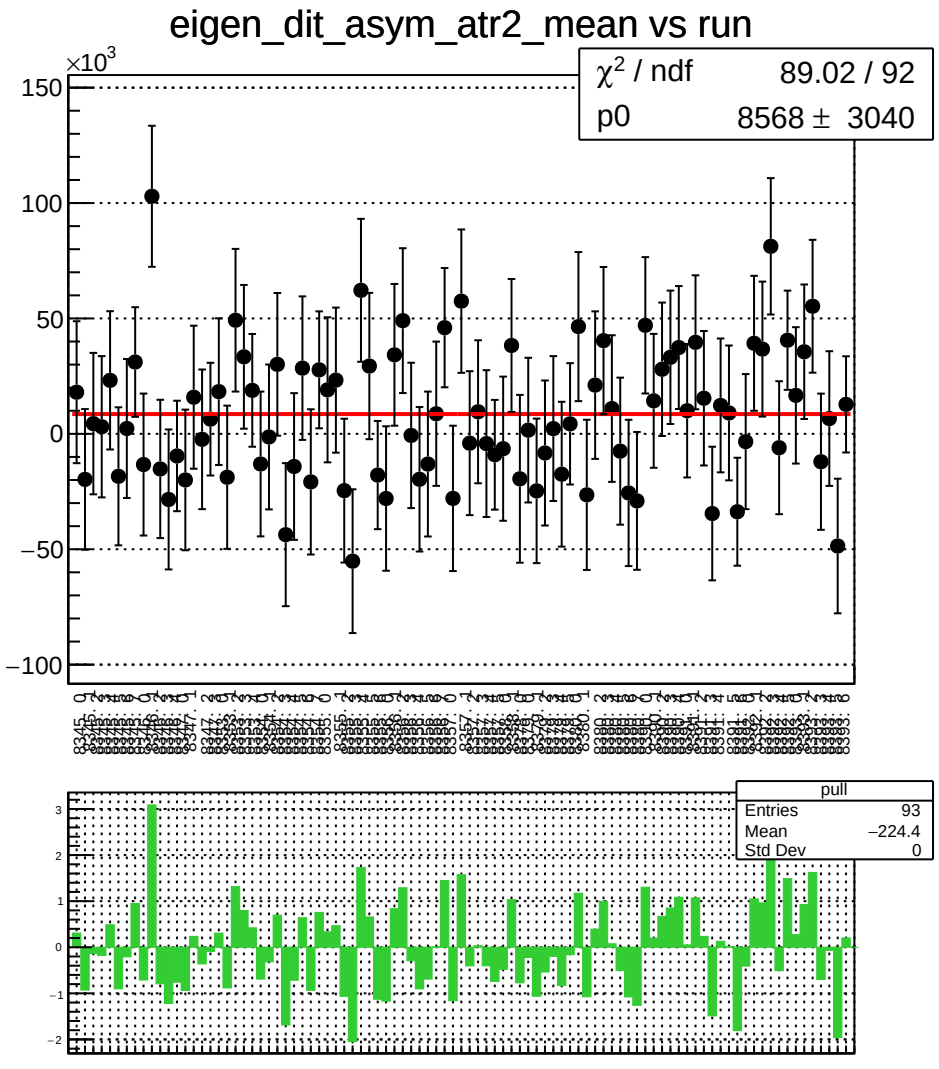

pull1D
Entries 93
Mean −0.009904
Std Dev 0.9783
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

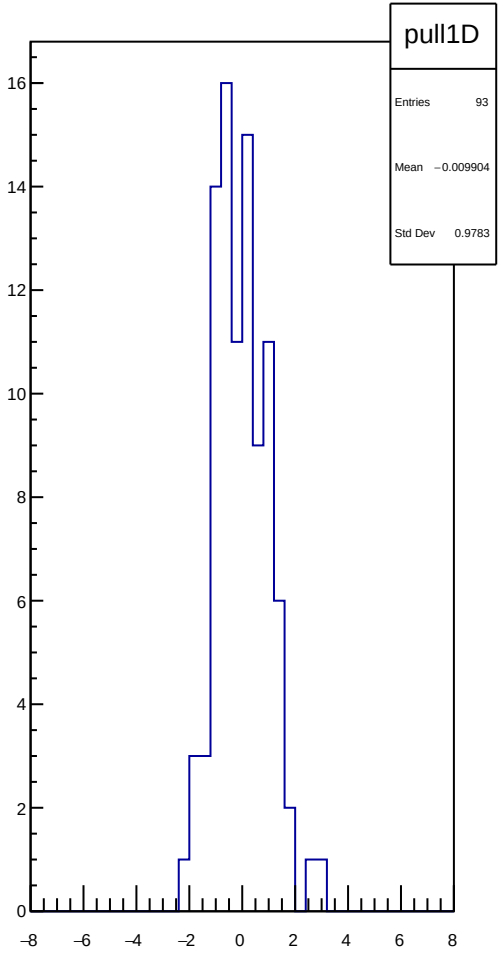

dit_asym_atr2_rms vs run
χ² / ndf 2117 / 92
p0 2897 ± 2.149
3100
3050
3000
2950
2900
2850
2800
2750
2700

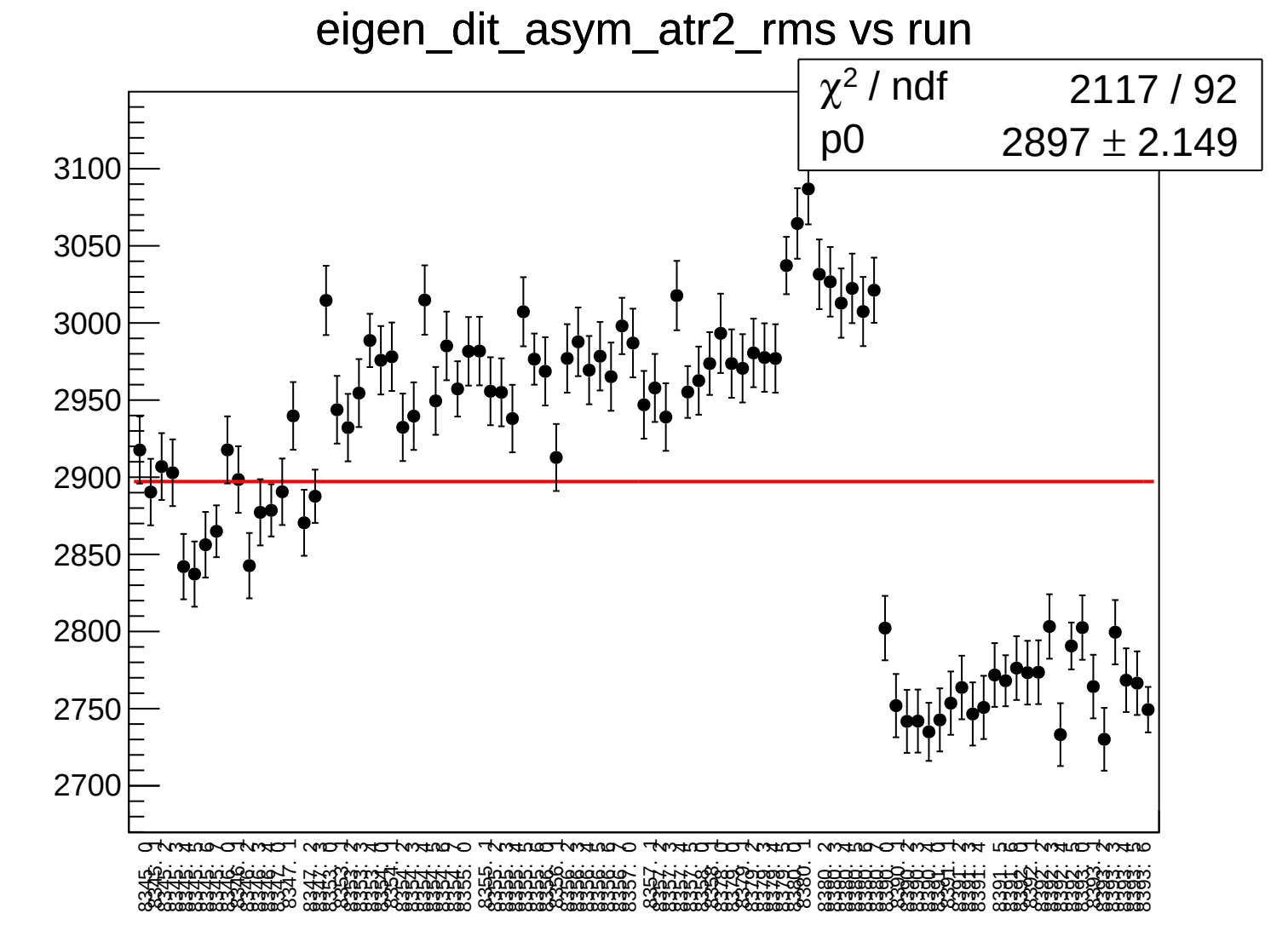

asym_atr2_dit_correction_mean vs run
×10^3
χ² / ndf 98.85 / 92
p0 2.994e+04 ± 1.416e+04
600
400
200
0
−200
−400
pull
Entries 93
Mean −204.8
Std Dev 0
3
2
1
0
−1
−2

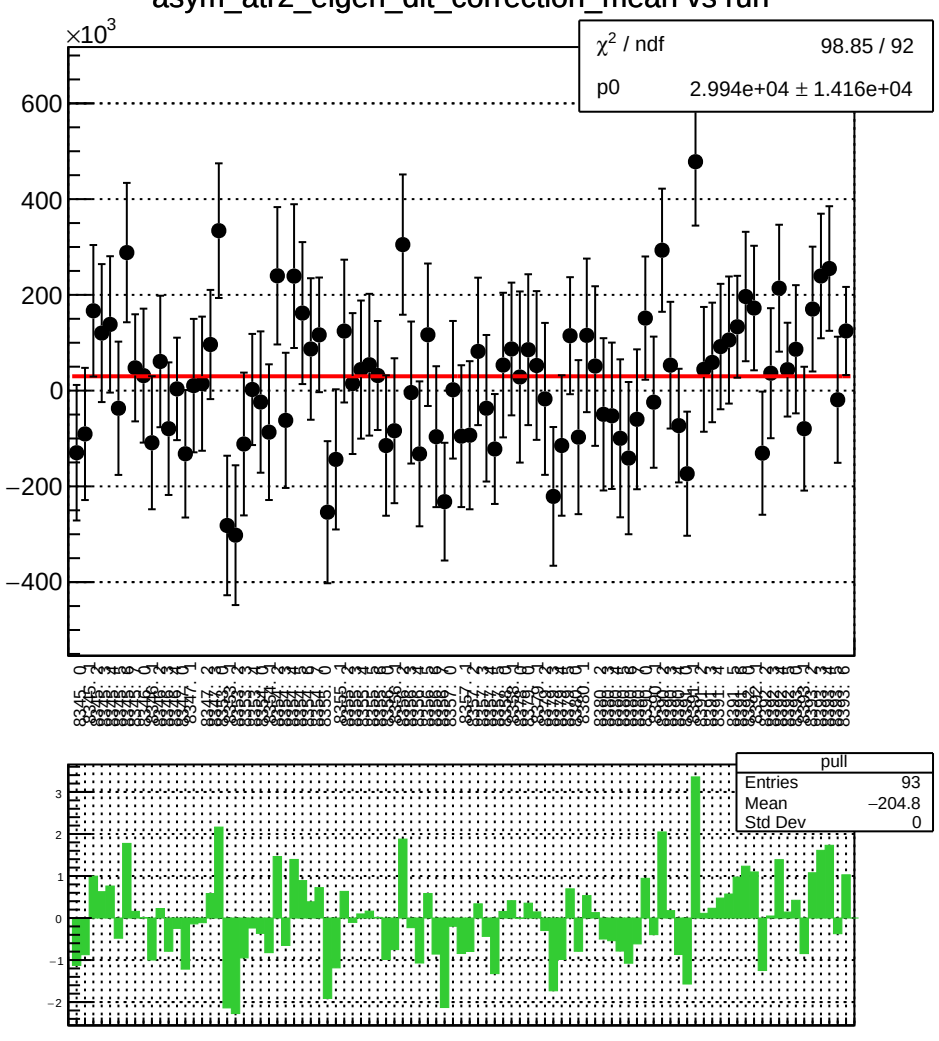

pull1D
Entries 93
Mean −0.02082
Std Dev 1.031
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

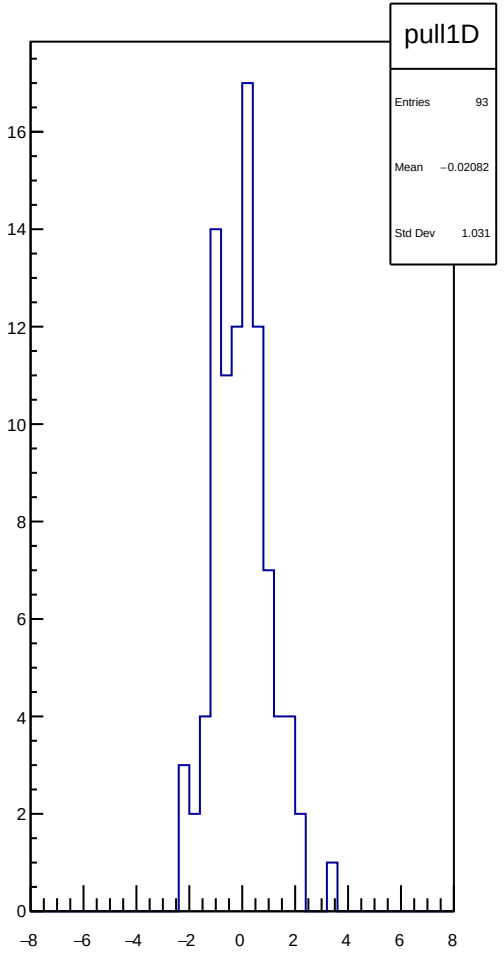

asym_atr2_dit_correction_rms vs run
χ² / ndf 8054 / 92
p0 1.347e+04 ± 10.01
16000
15000
14000
13000
12000

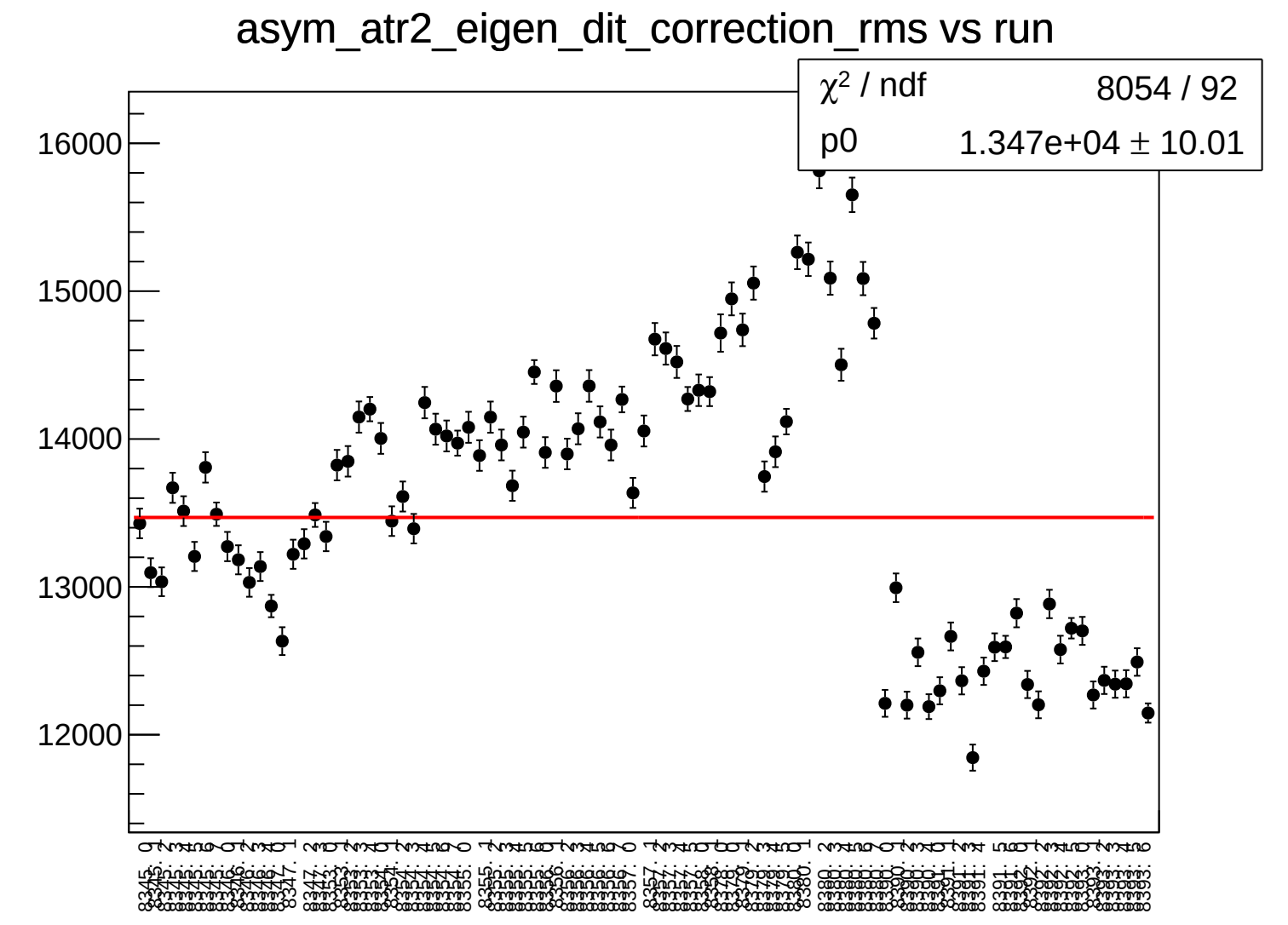

eigen_dit_asym_atr2_mean vs run
×10^3
χ² / ndf 89.02 / 92
p0 8568 ± 3040
150
100
50
0
−50
−100
pull
Entries 93
Mean −224.4
Std Dev 0
3
2
1
0
−1
−2

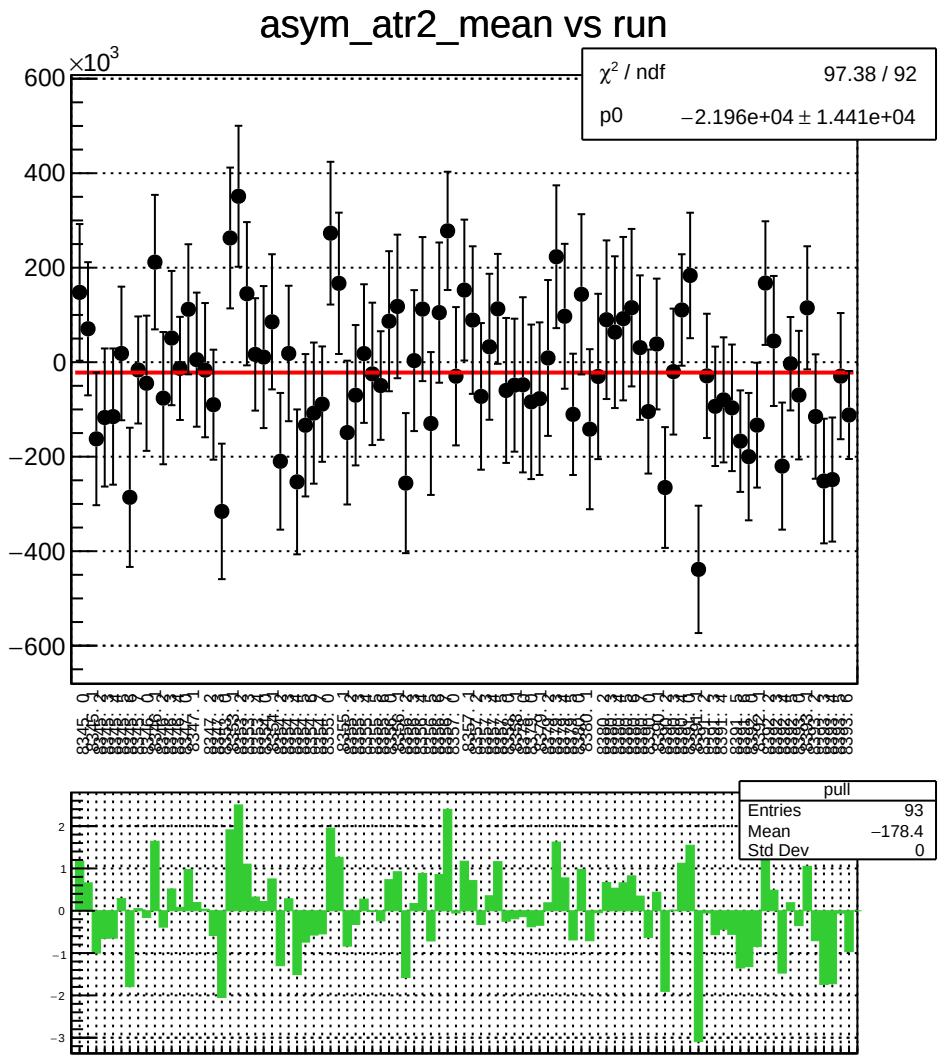

pull1D
Entries 93
Mean −0.009904
Std Dev 0.9783
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

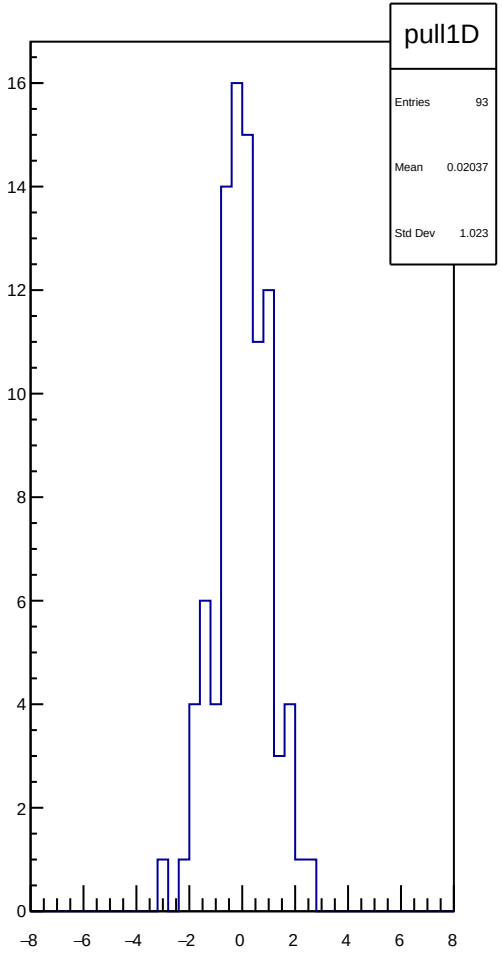

eigen_dit_asym_atr2_rms vs run
χ² / ndf 2117 / 92
p0 2897 ± 2.149
3100
3050
3000
2950
2900
2850
2800
2750
2700

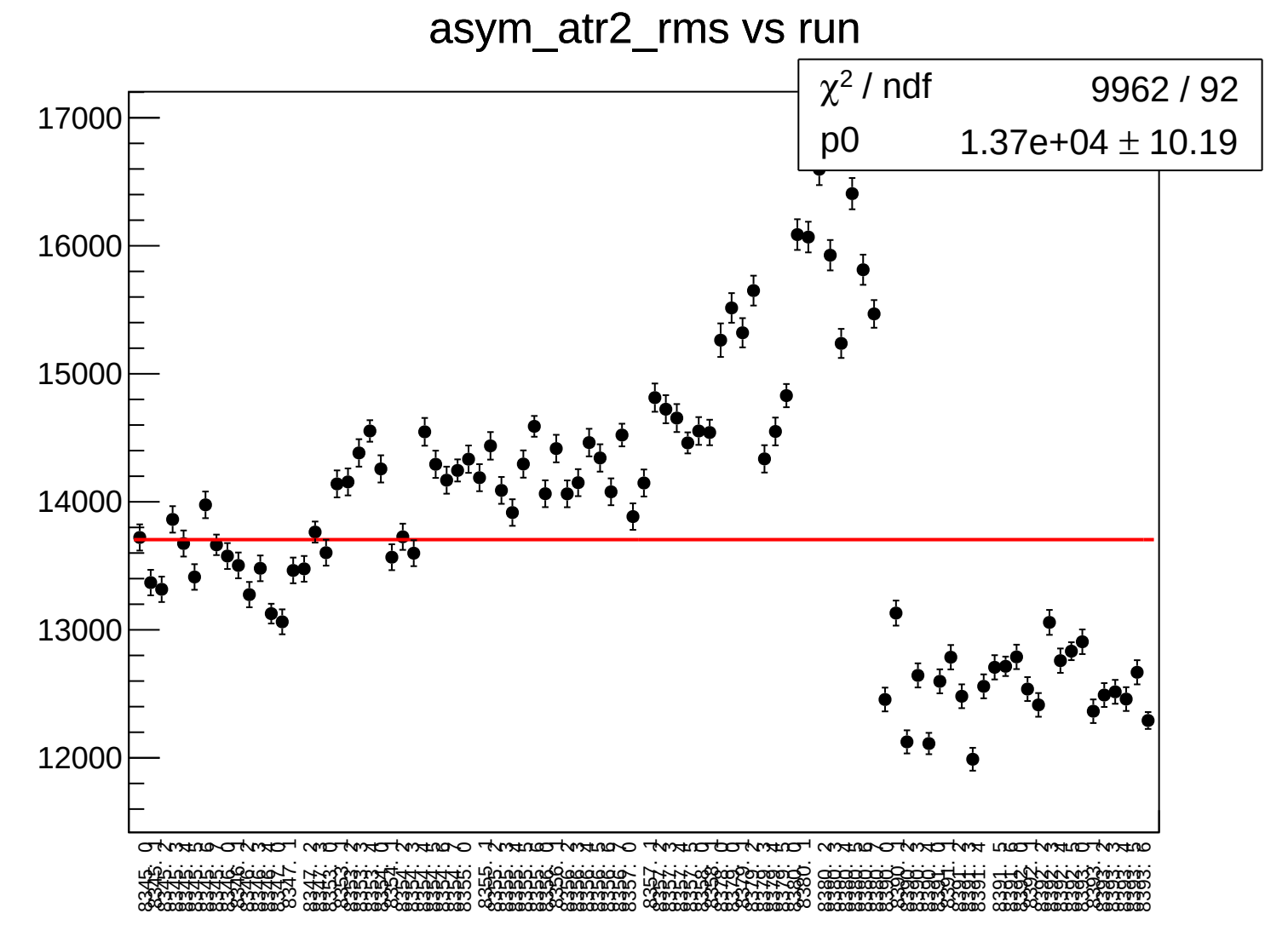

asym_atr2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 98.85 / 92
p0 2.994e+04 ± 1.416e+04
600
400
200
0
−200
−400
pull
Entries 93
Mean −204.8
Std Dev 0
3
2
1
0
−1
−2

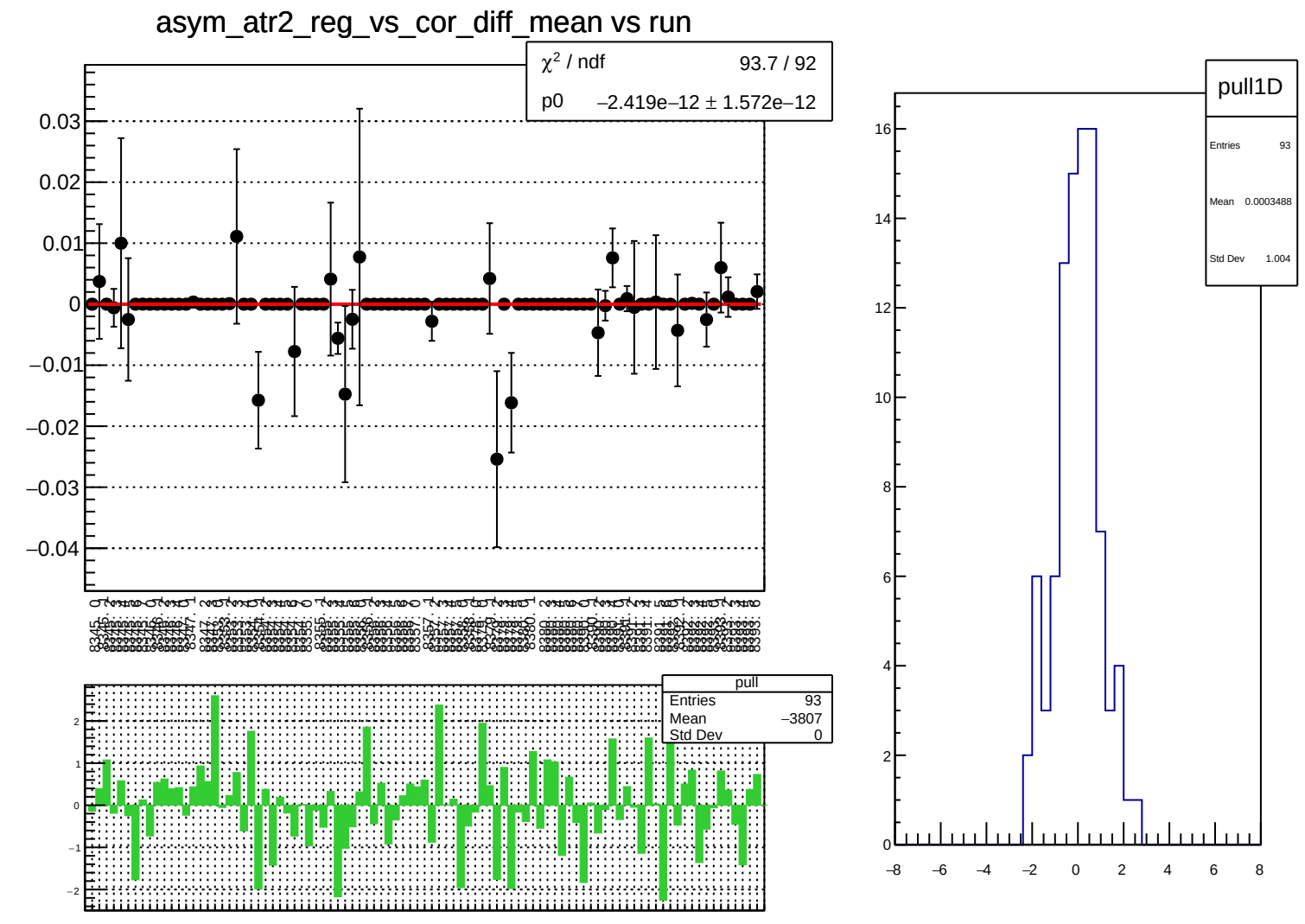

pull1D
Entries 93
Mean −0.02082
Std Dev 1.031
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

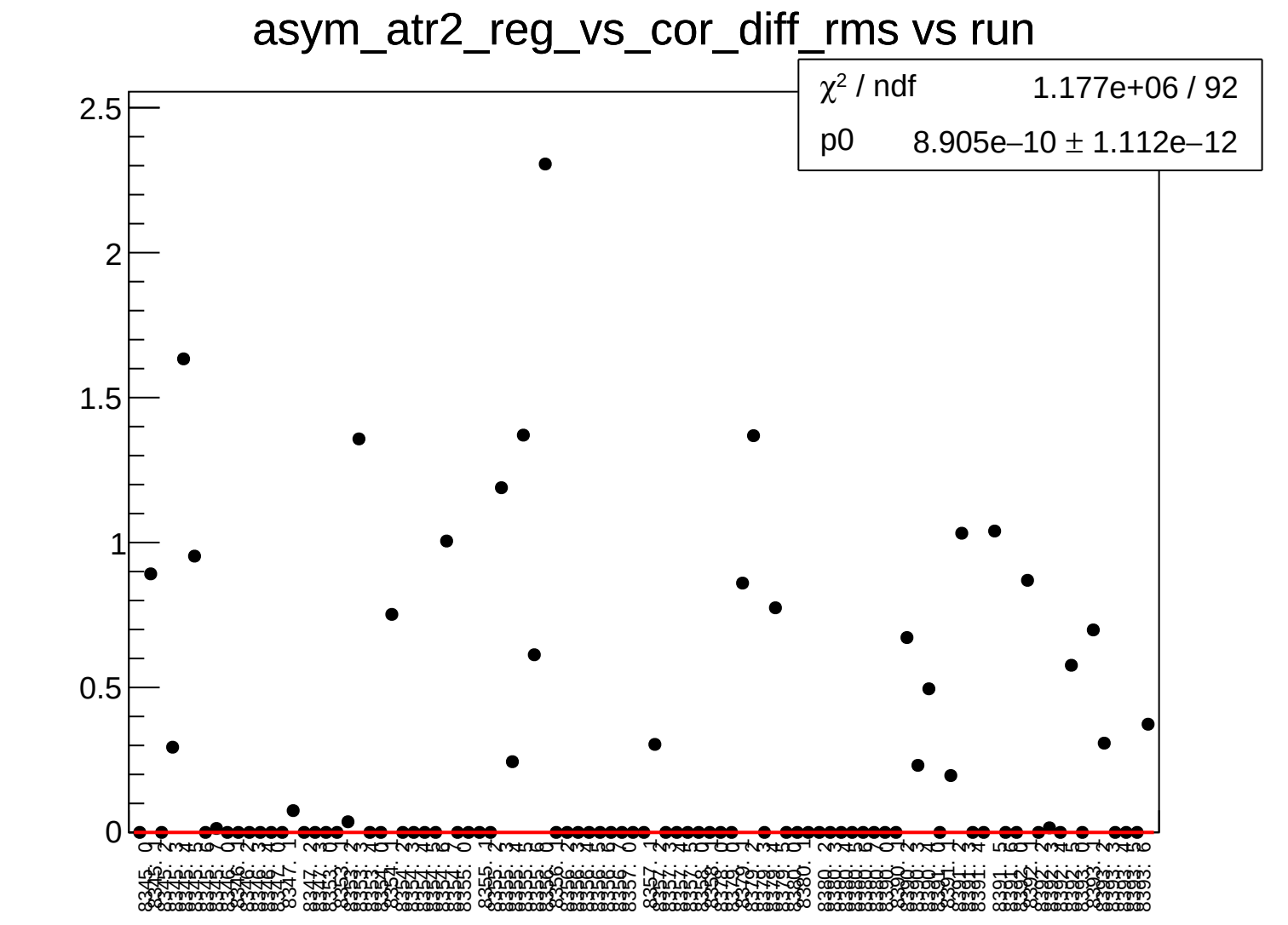

asym_atr2_eigen_dit_correction_rms vs run
χ² / ndf 8054 / 92
p0 1.347e+04 ± 10.01
16000
15000
14000
13000
12000

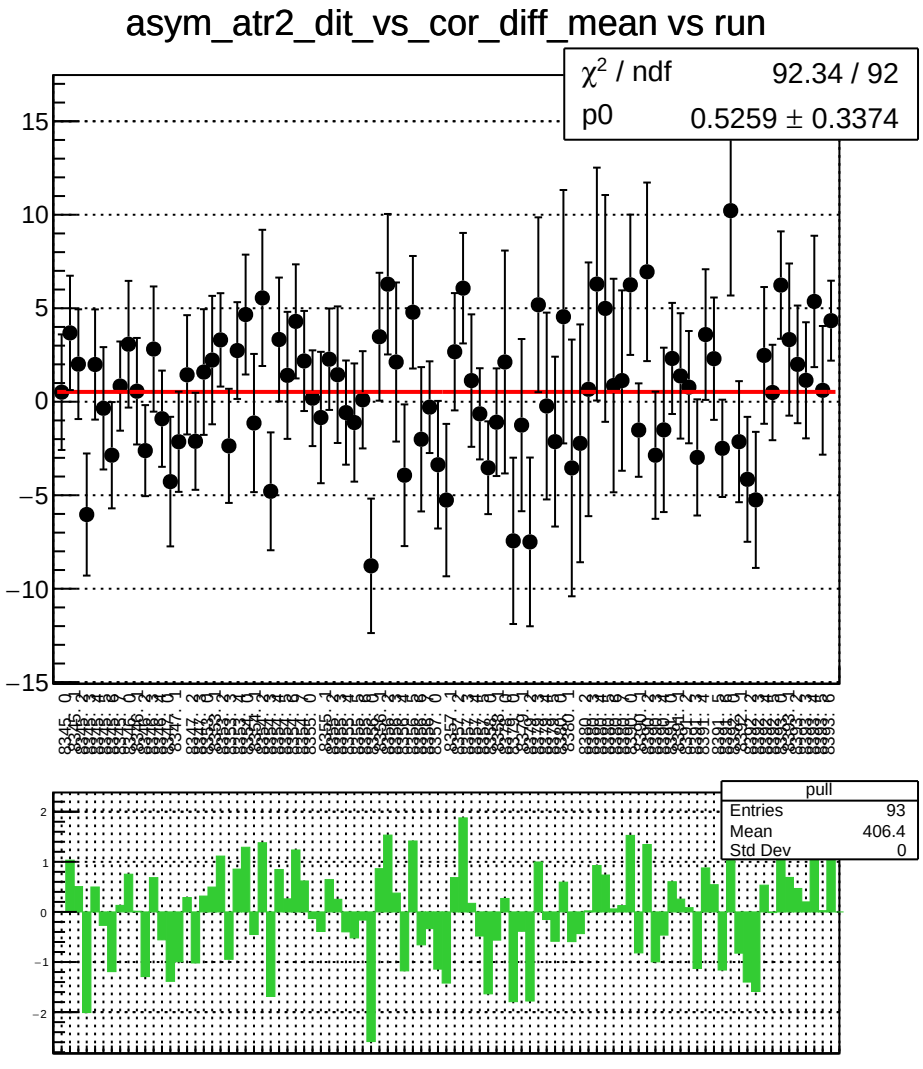

asym_atr2_mean vs run
×10^3
600
400
200
0
−200
−400
−600
χ² / ndf 97.38 / 92
p0 −2.196e+04 ± 1.441e+04
pull
Entries 93
Mean −178.4
Std Dev 0
2
1
0
−1
−2
−3

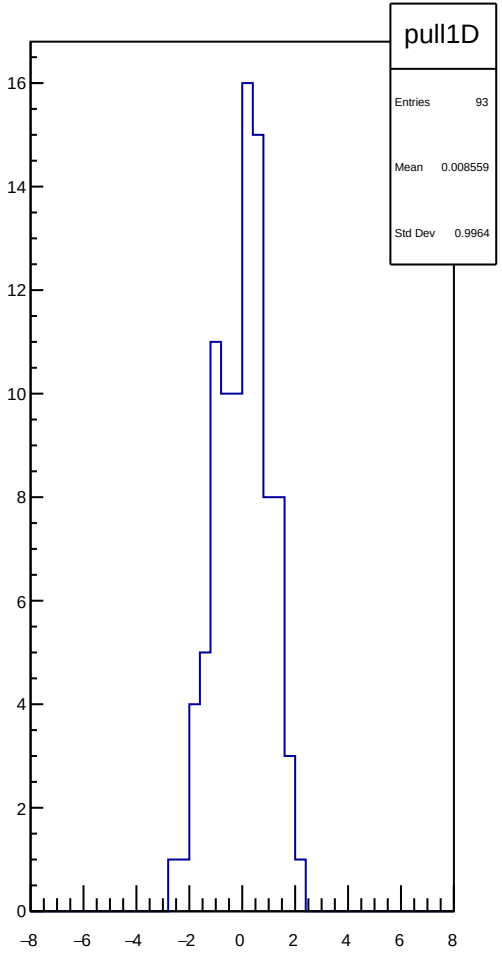

pull1D
Entries 93
Mean 0.02037
Std Dev 1.023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

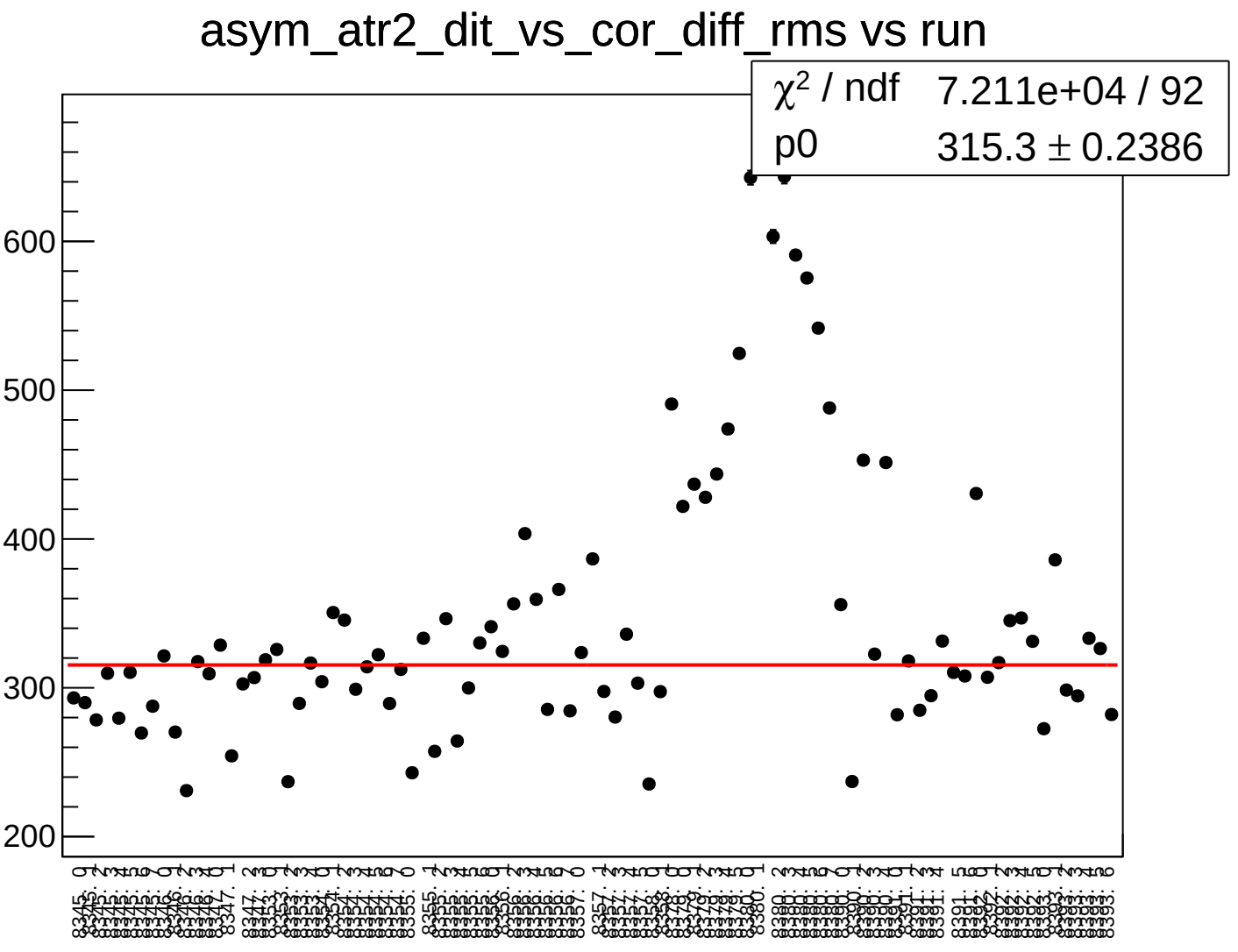

asym_atr2_rms vs run
χ^2 / ndf 9962 / 92
p0 1.37e+04 ± 10.19
17000
16000
15000
14000
13000
12000

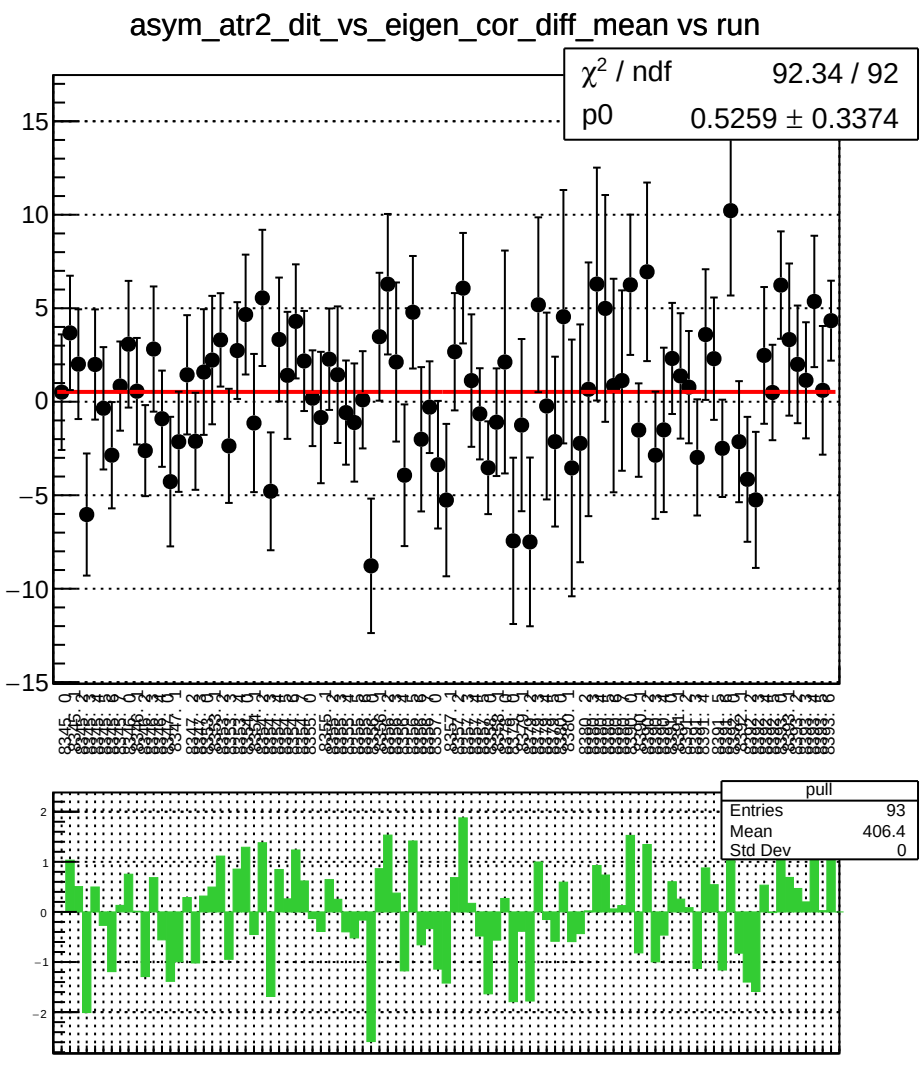

asym_atr2_reg_vs_cor_diff_mean vs run
χ² / ndf 93.7 / 92
p0 −2.419e−12 ± 1.572e−12
pull
Entries 93
Mean −3807
Std Dev 0
pull1D
Entries 93
Mean 0.0003488
Std Dev 1.004

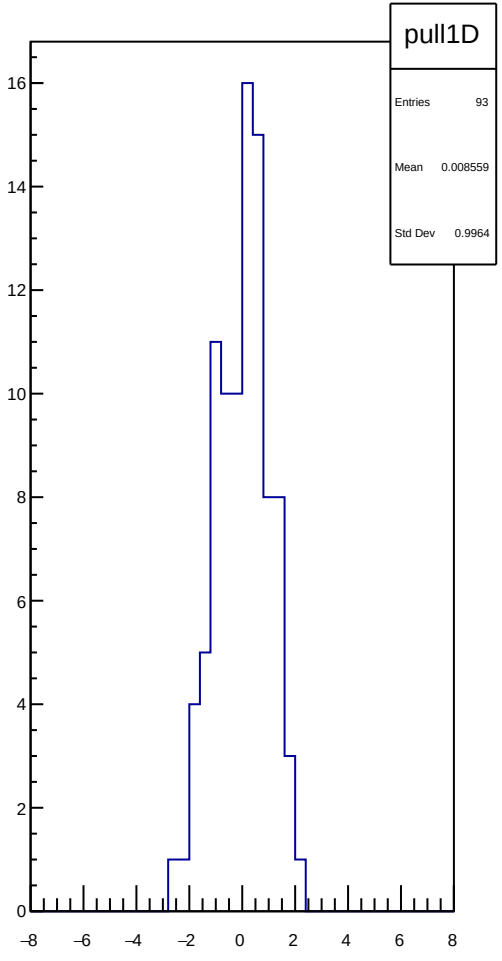

asym_atr2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.177e+06 / 92
p0 8.905e−10 ± 1.112e−12
2.5
2
1.5
1
0.5
0

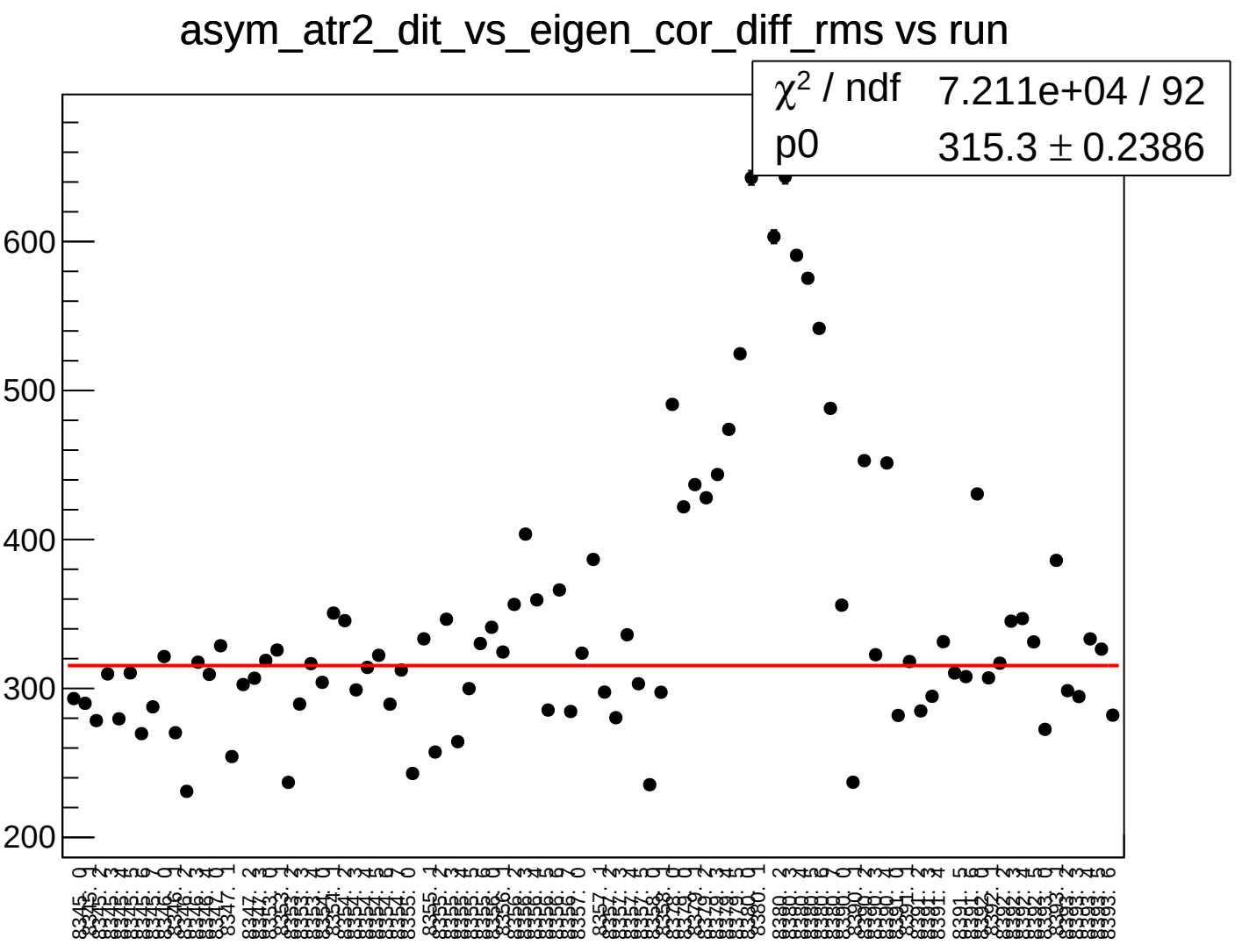

asym_atr2_dit_vs_cor_diff_mean vs run
χ² / ndf 92.34 / 92
p0 0.5259 ± 0.3374
pull
Entries 93
Mean 406.4
Std Dev 0

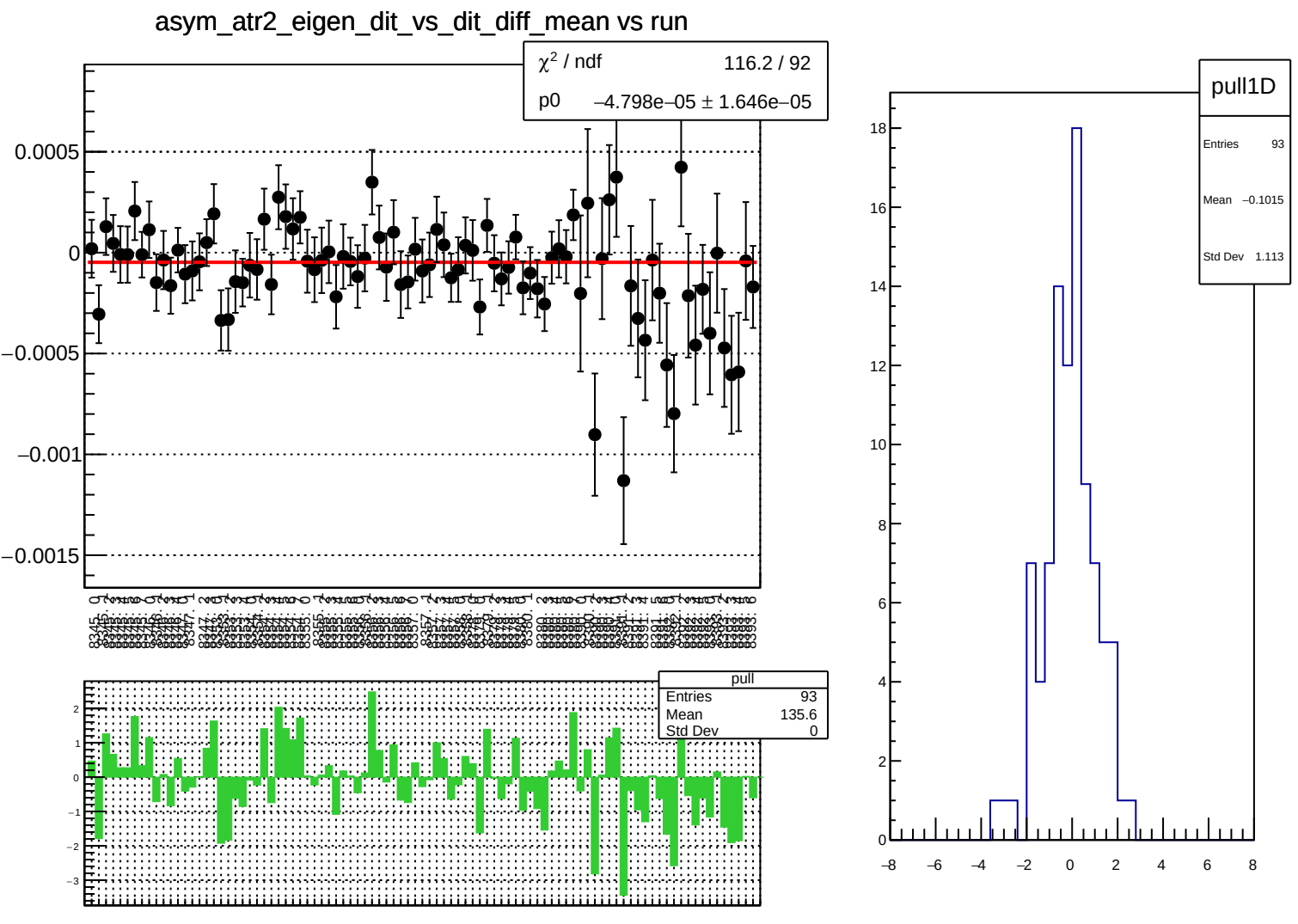

pull1D
Entries 93
Mean 0.008559
Std Dev 0.9964

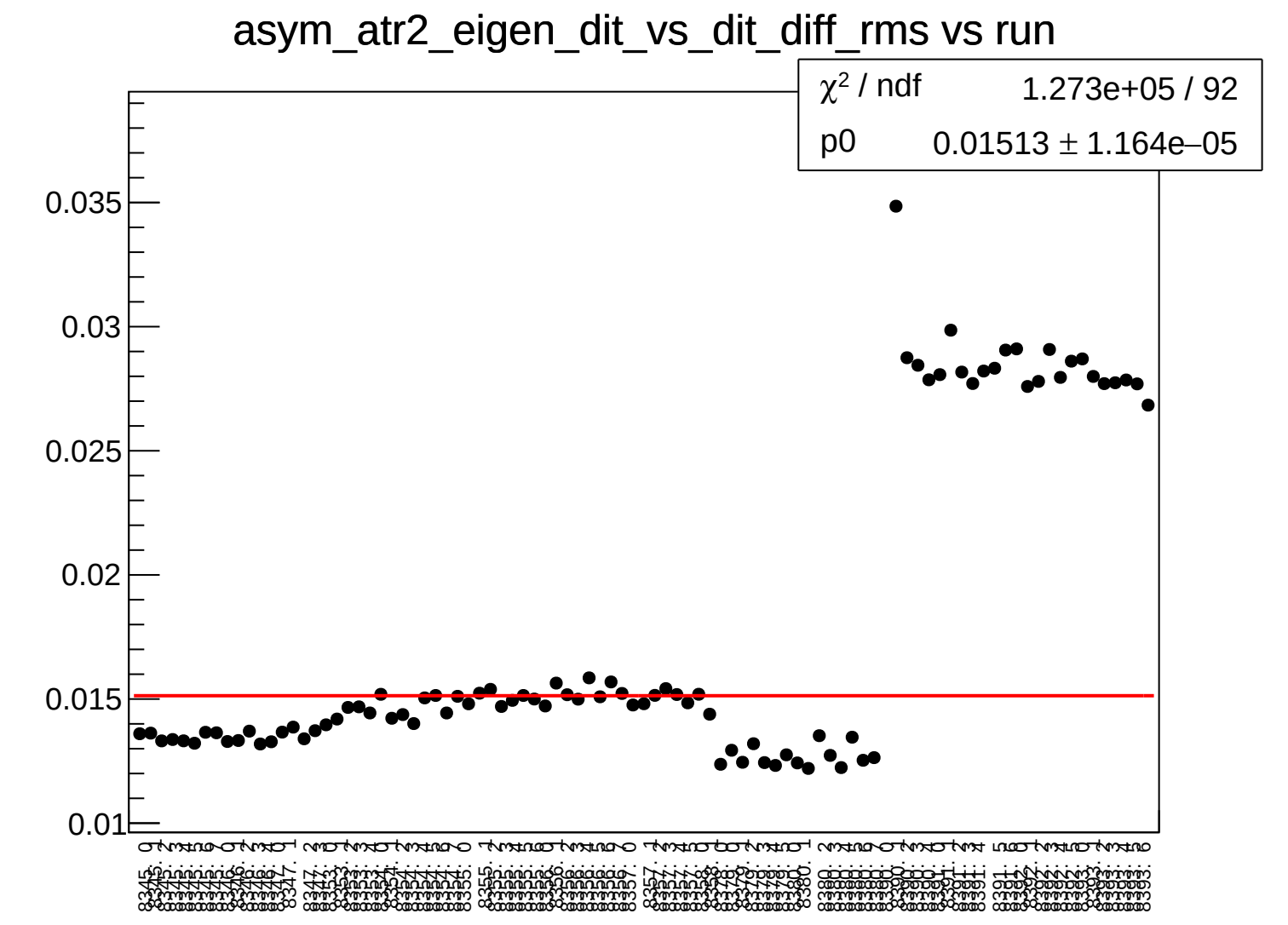

asym_atr2_dit_vs_cor_diff_rms vs run
χ² / ndf 7.211e+04 / 92
p0 315.3 ± 0.2386
600
500
400
300
200

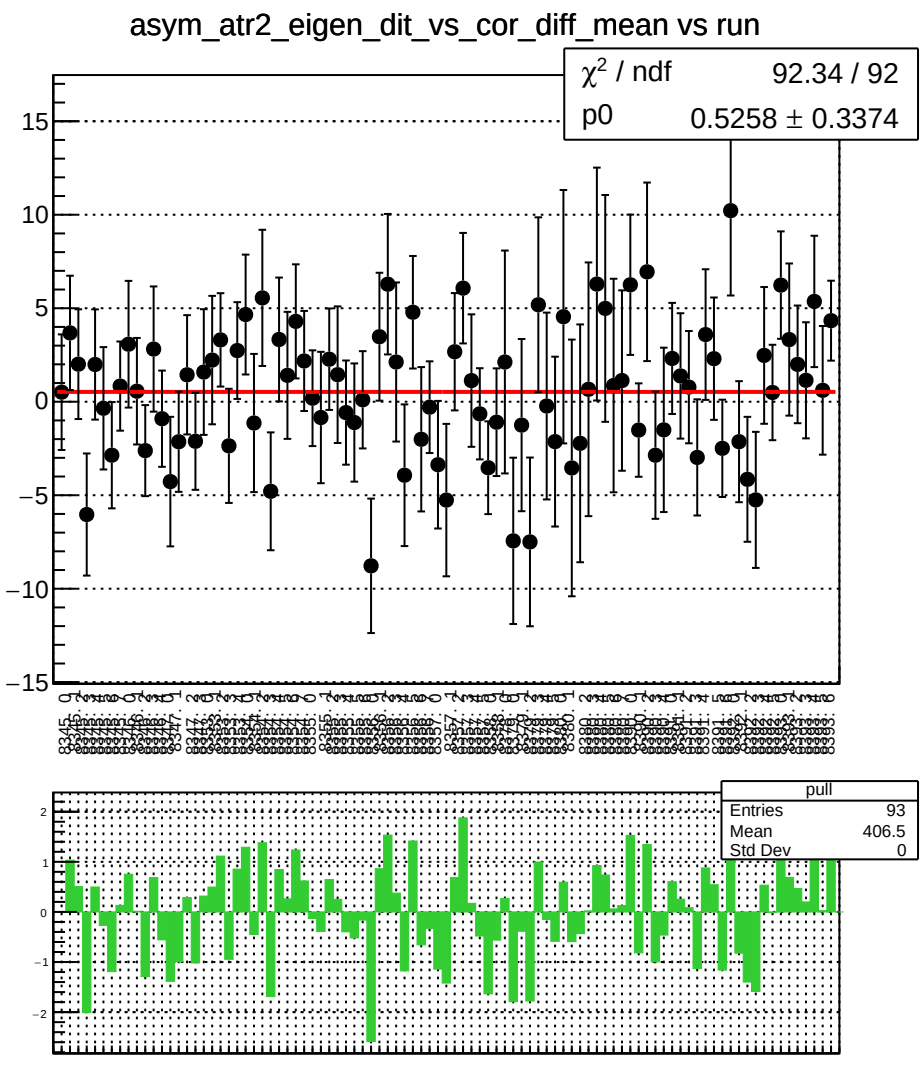

asym_atr2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.34 / 92
p0 0.5259 ± 0.3374
pull
Entries 93
Mean 406.4
Std Dev 0

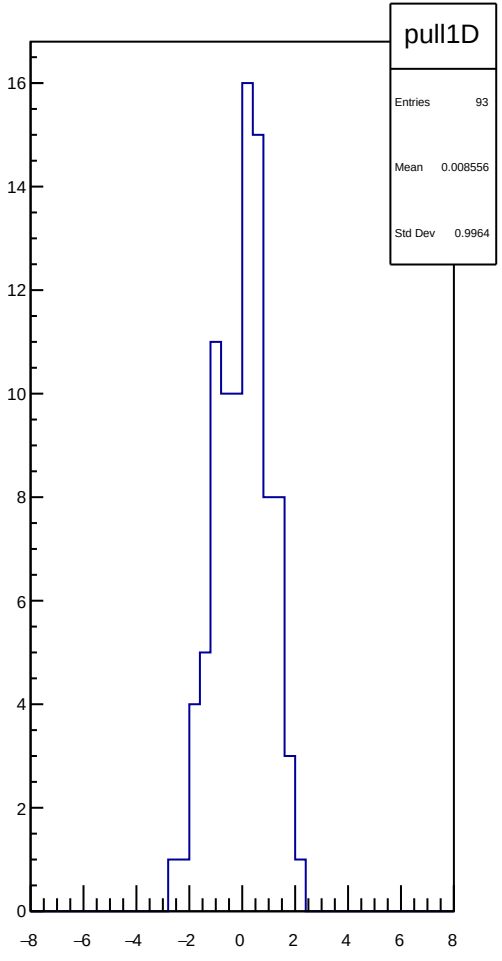

pull1D
Entries 93
Mean 0.008559
Std Dev 0.9964

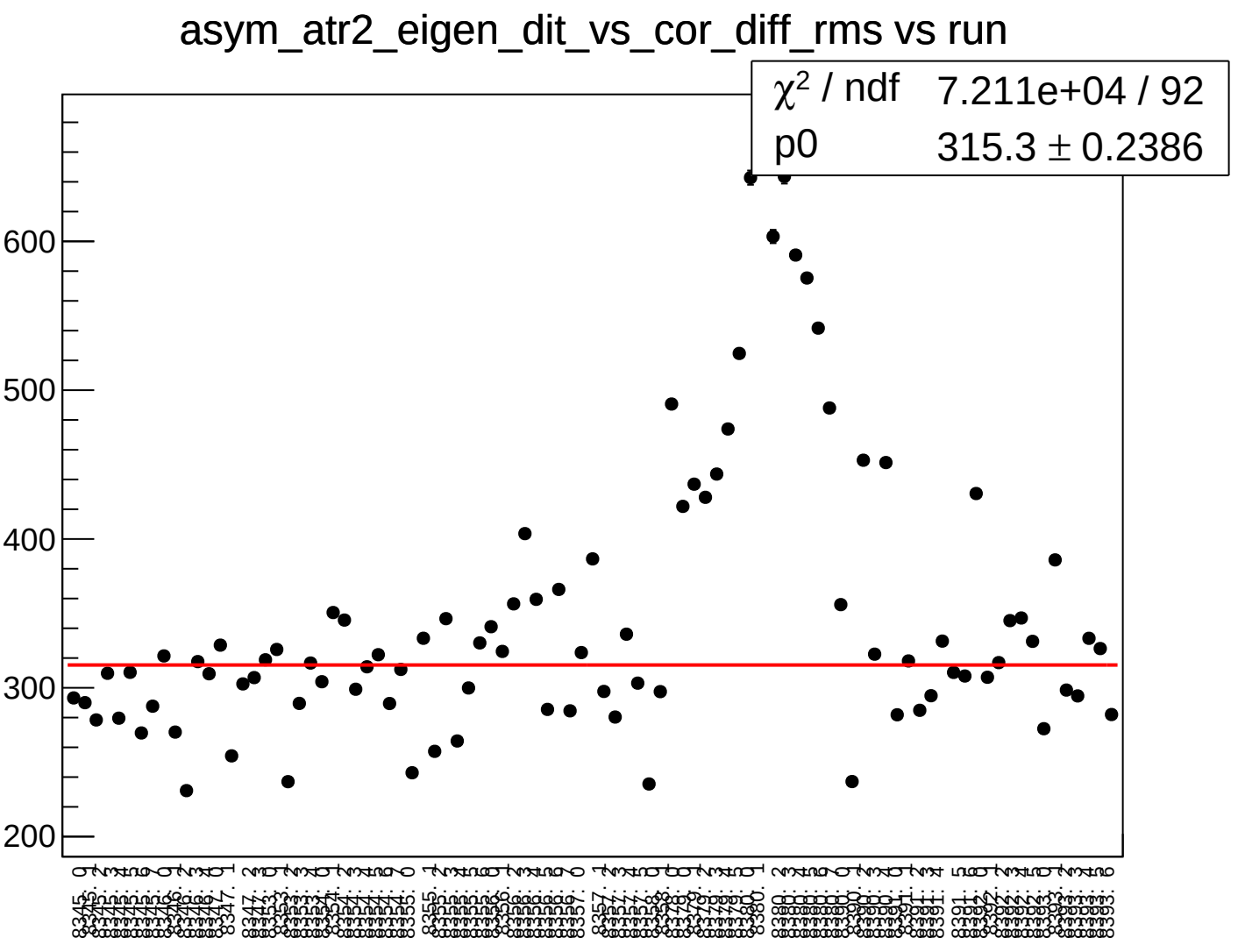

asym_atr2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.211e+04 / 92
p0 315.3 ± 0.2386
600
500
400
300
200

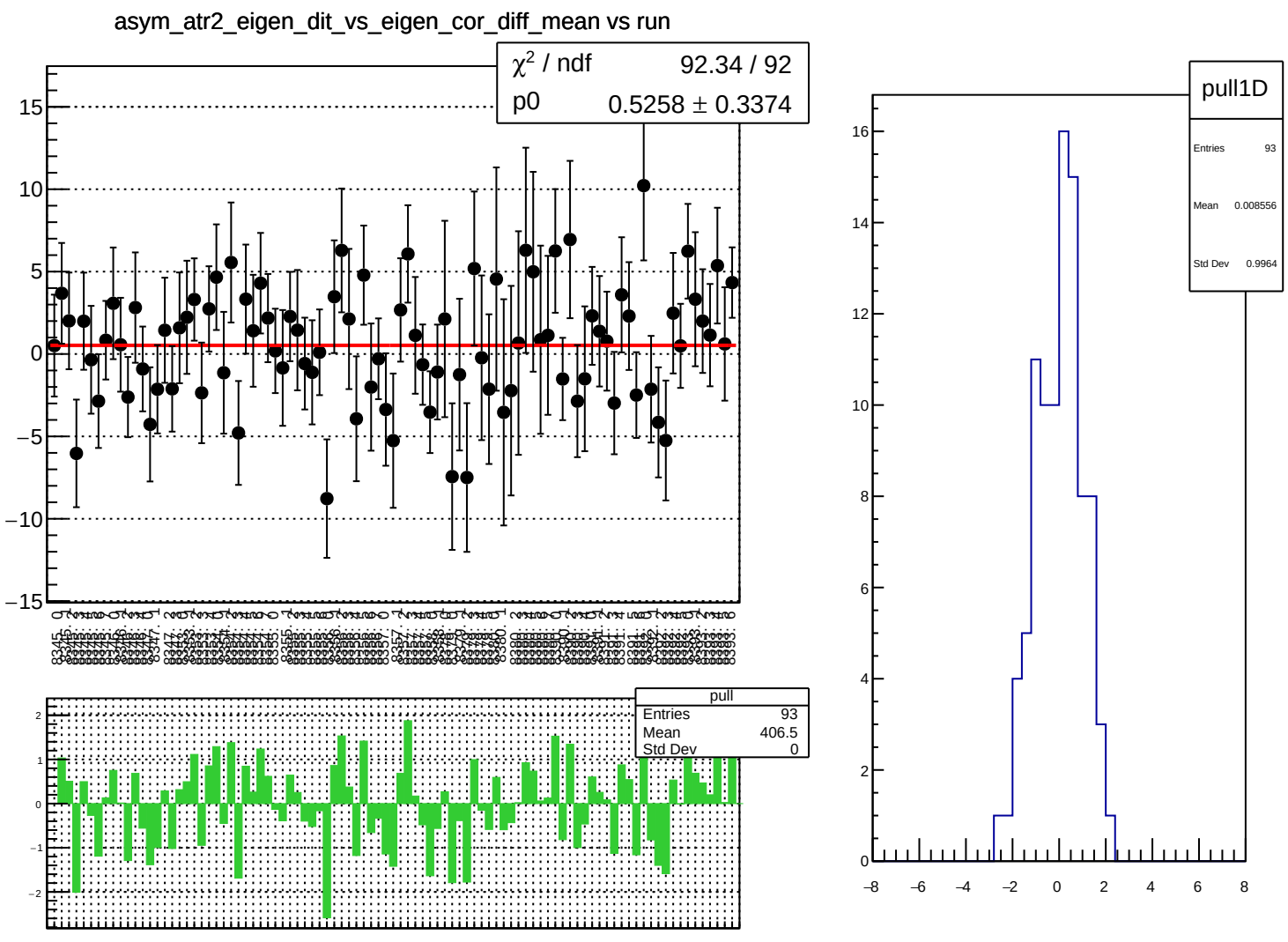

asym_atr2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 116.2 / 92
p0 −4.798e−05 ± 1.646e−05
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 93
Mean 135.6
Std Dev 0
pull1D
Entries 93
Mean −0.1015
Std Dev 1.113

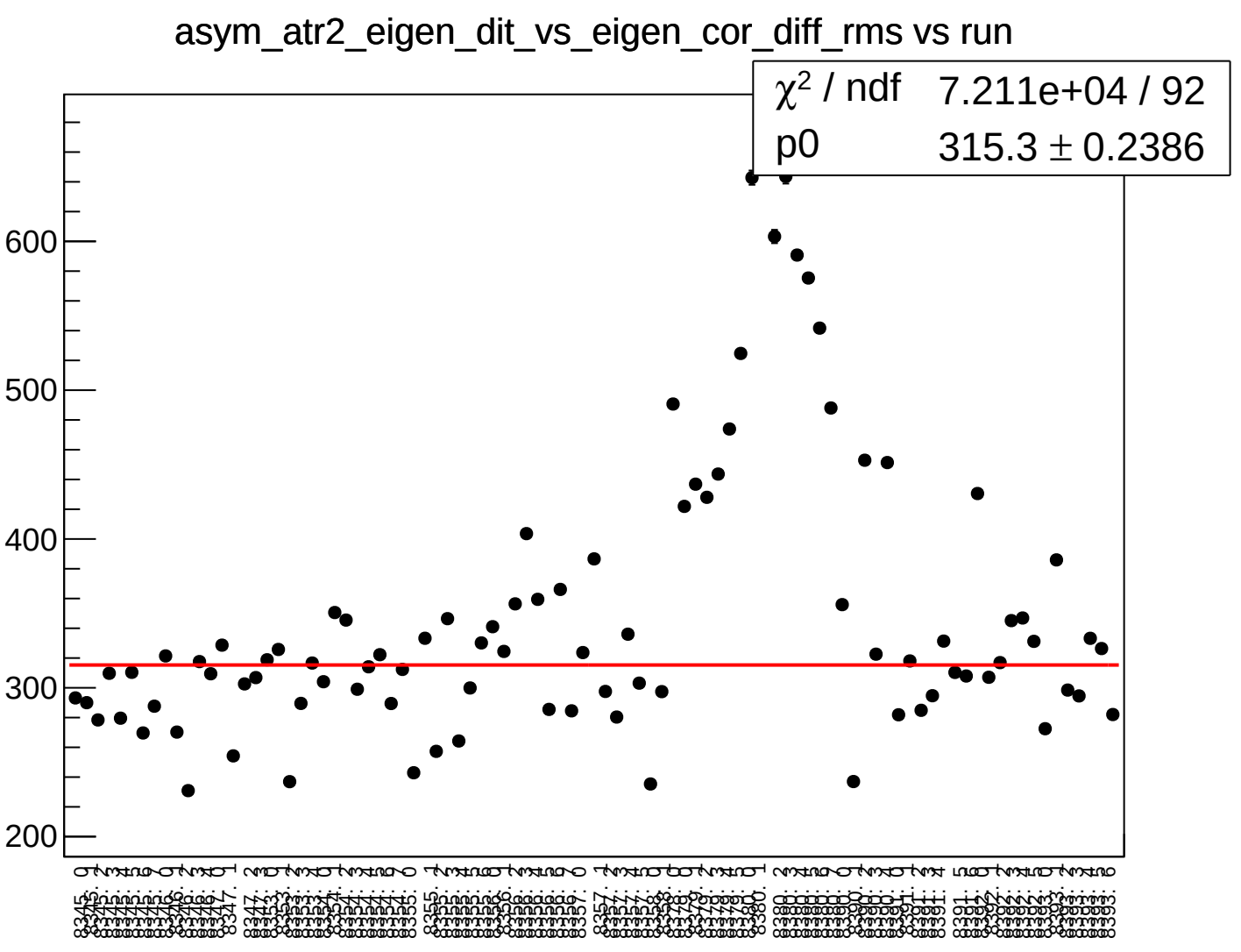

asym_atr2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.273e+05 / 92
p0 0.01513 ± 1.164e−05
0.035
0.03
0.025
0.02
0.015
0.01

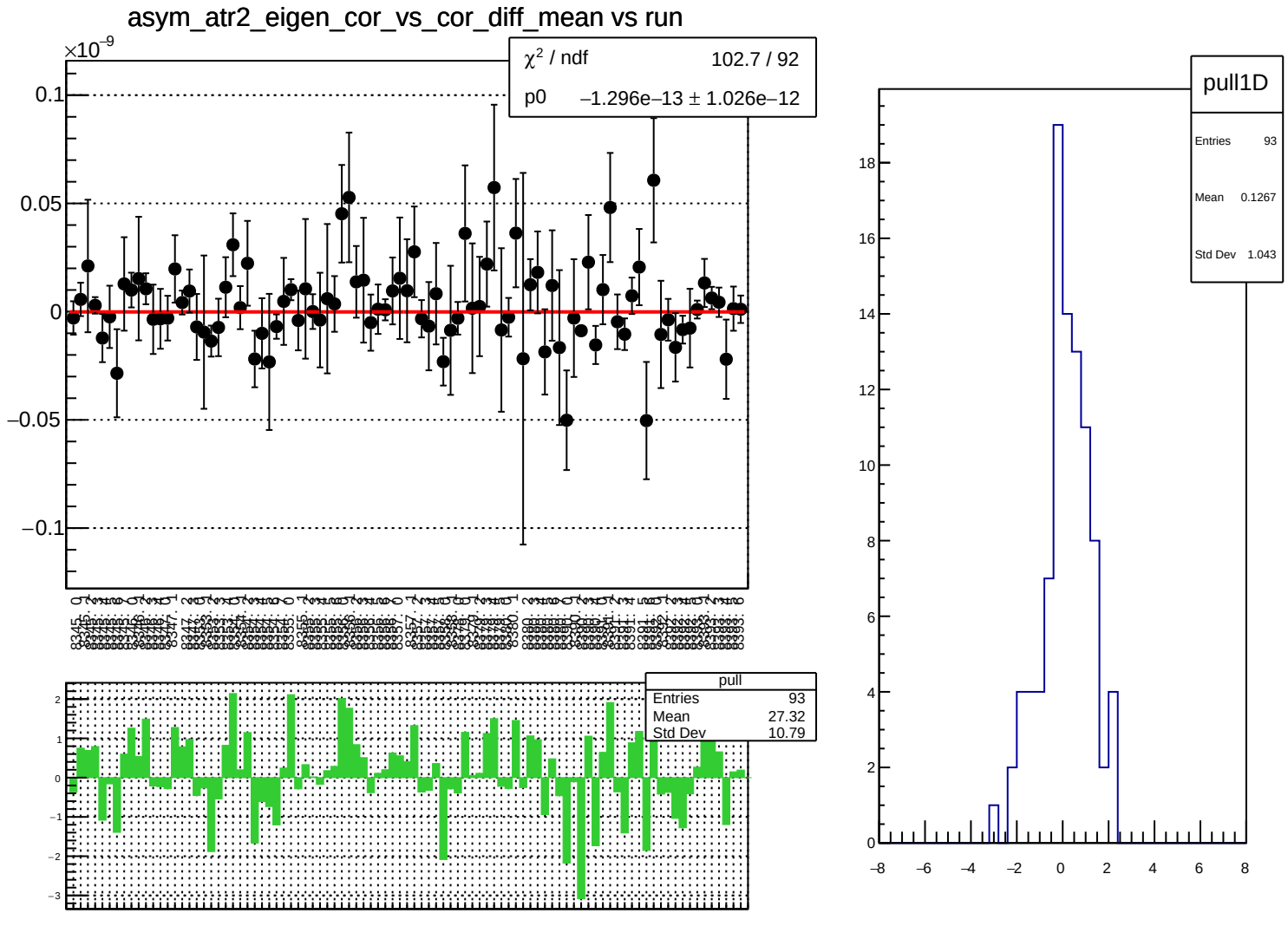

asym_atr2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.34 / 92
p0 0.5258 ± 0.3374
pull
Entries 93
Mean 406.5
Std Dev 0

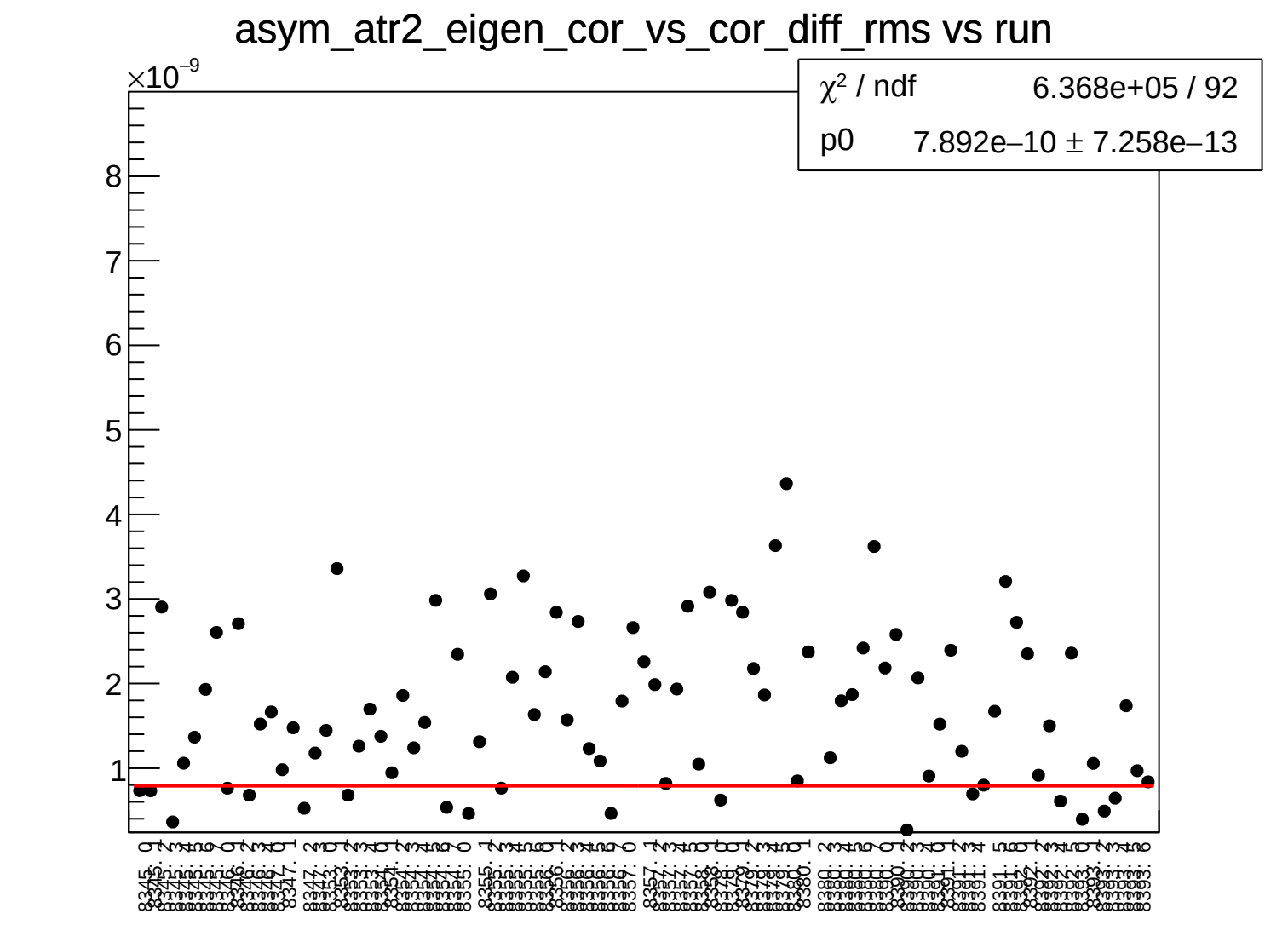

pull1D
Entries 93
Mean 0.008556
Std Dev 0.9964

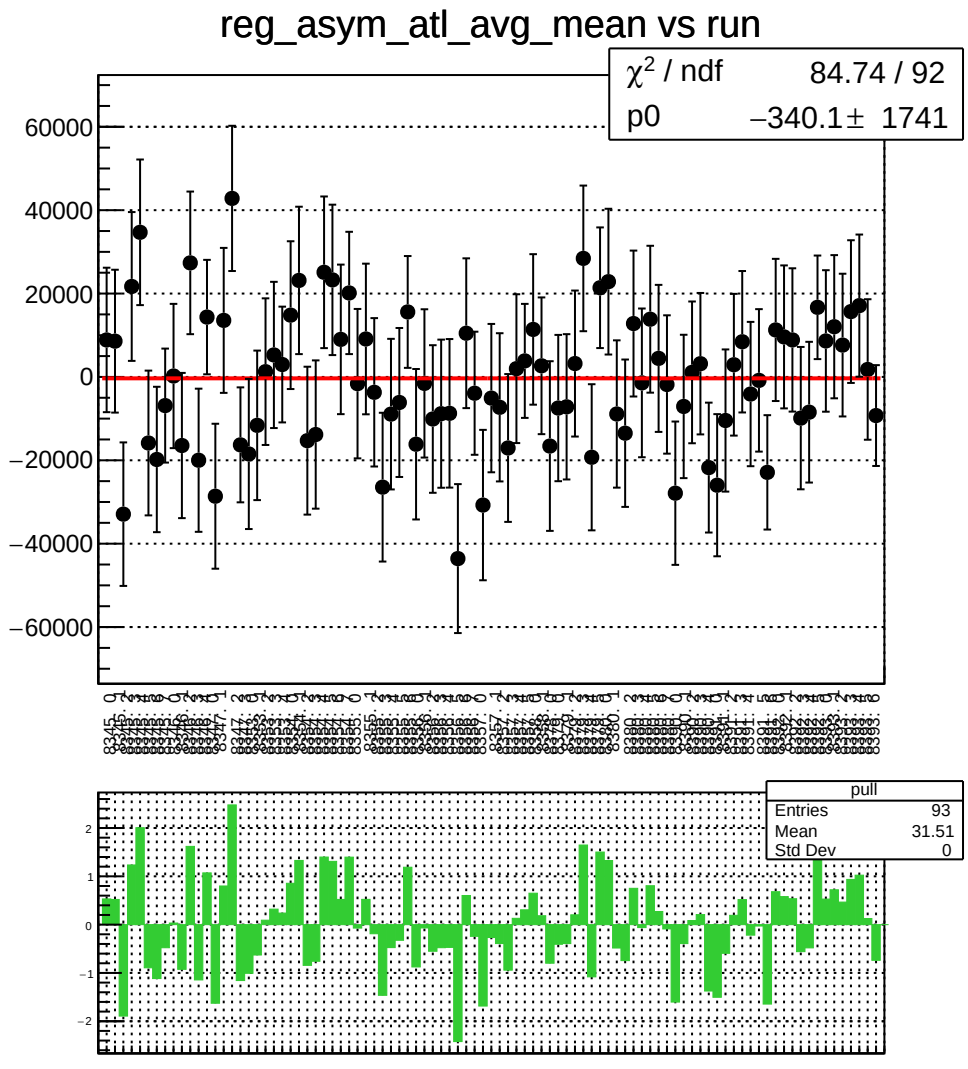

asym_atr2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.211e+04 / 92
p0 315.3 ± 0.2386
600
500
400
300
200

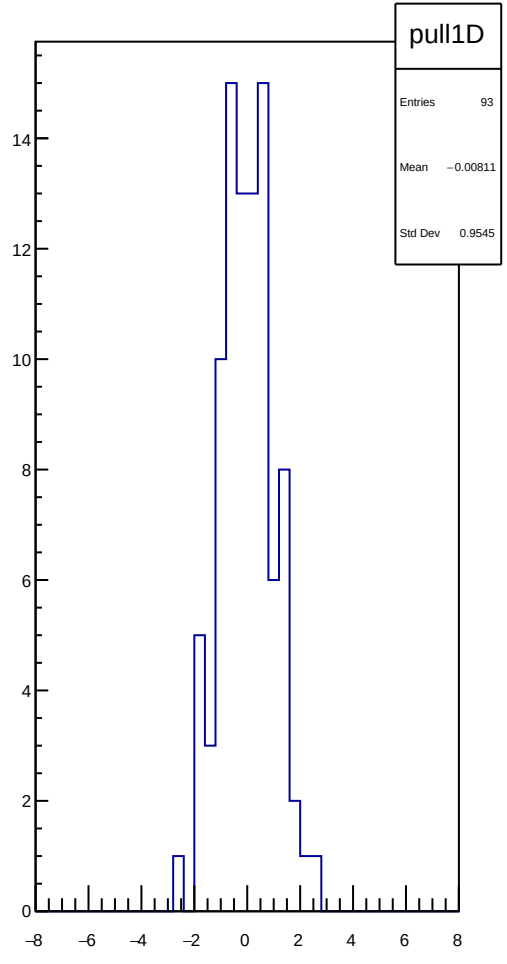

asym_atr2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.34 / 92
p0 0.5258 ± 0.3374
pull
Entries 93
Mean 406.5
Std Dev 0
pull1D
Entries 93
Mean 0.008556
Std Dev 0.9964

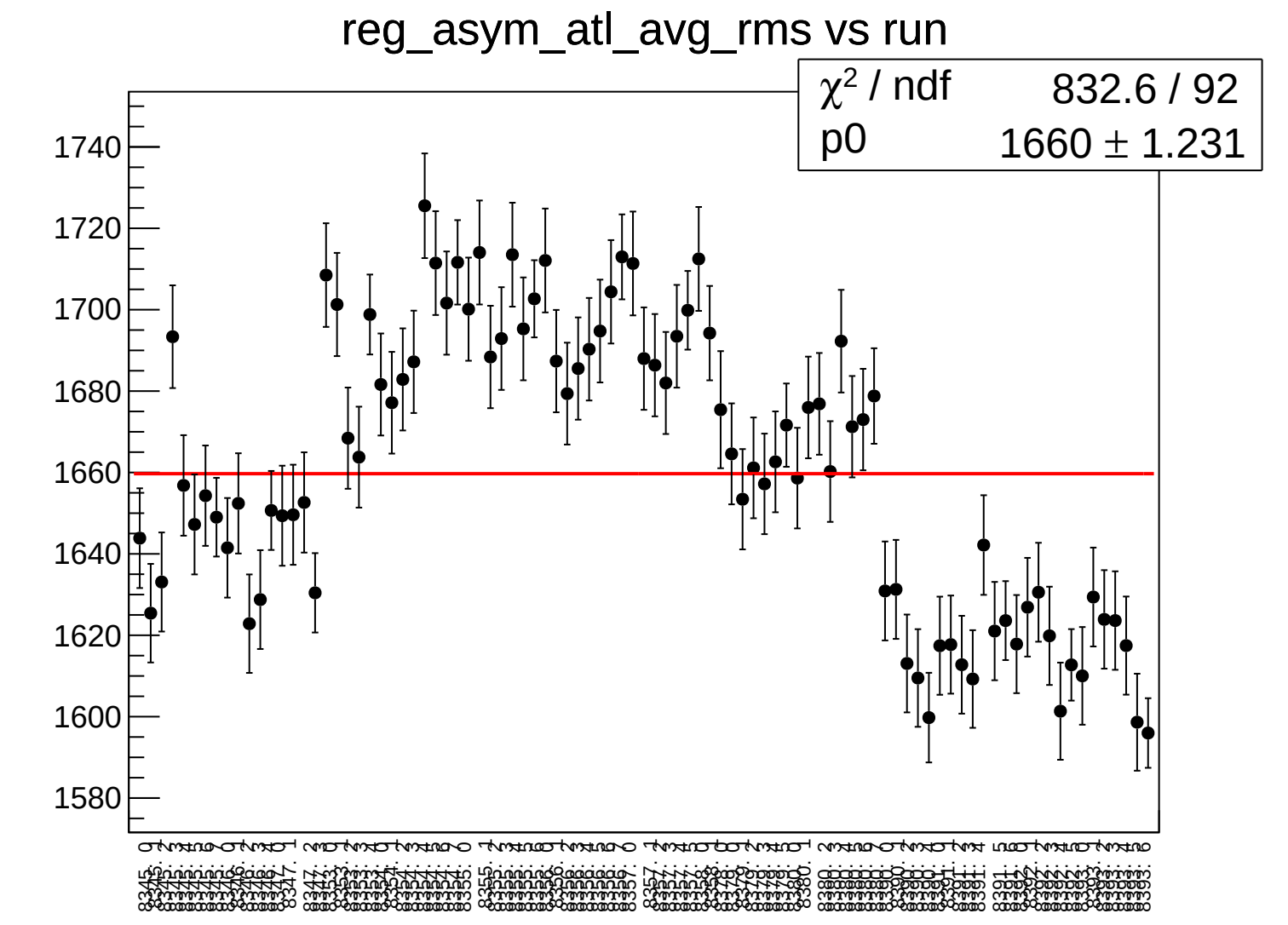

asym_atr2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.211e+04 / 92
p0 315.3 ± 0.2386
600
500
400
300
200

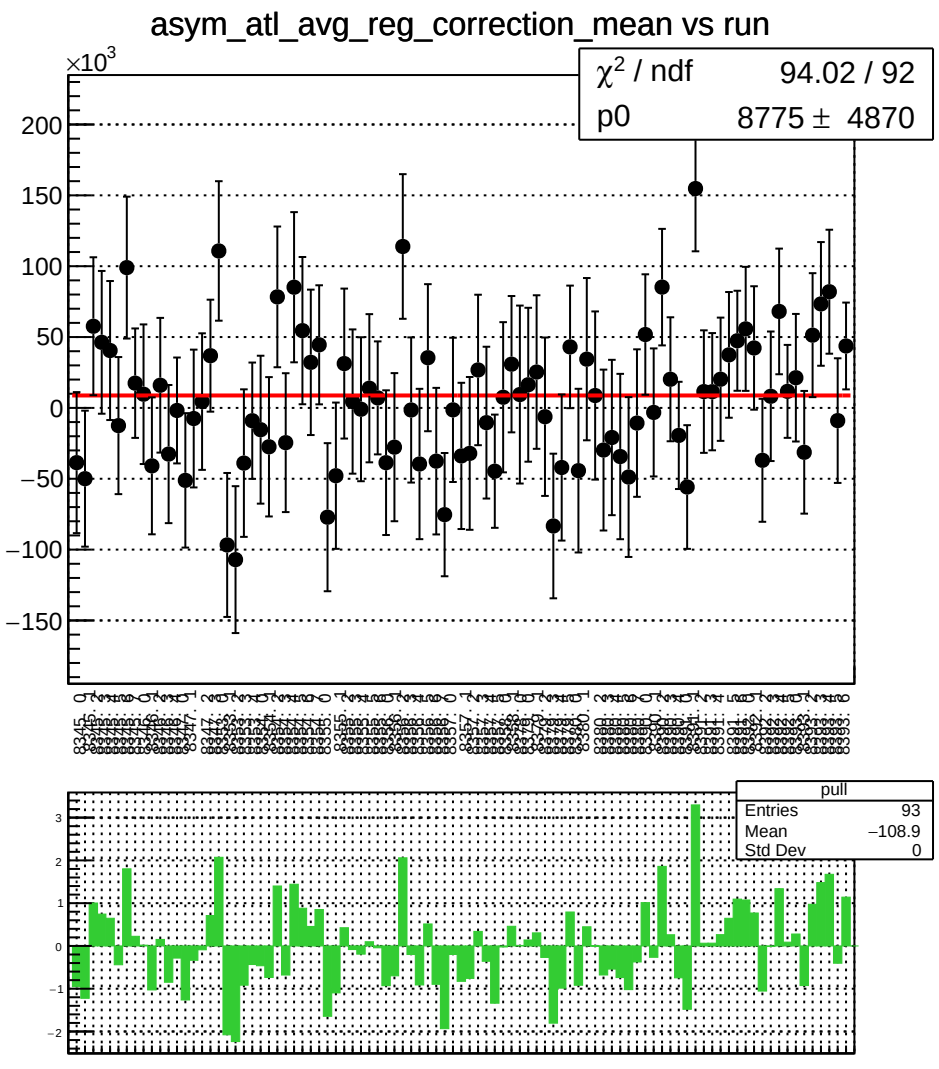

asym_atr2_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 102.7 / 92
p0 −1.296e−13 ± 1.026e−12
0.1
0.05
0
−0.05
−0.1
pull
Entries 93
Mean 27.32
Std Dev 10.79
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.1267
Std Dev 1.043
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

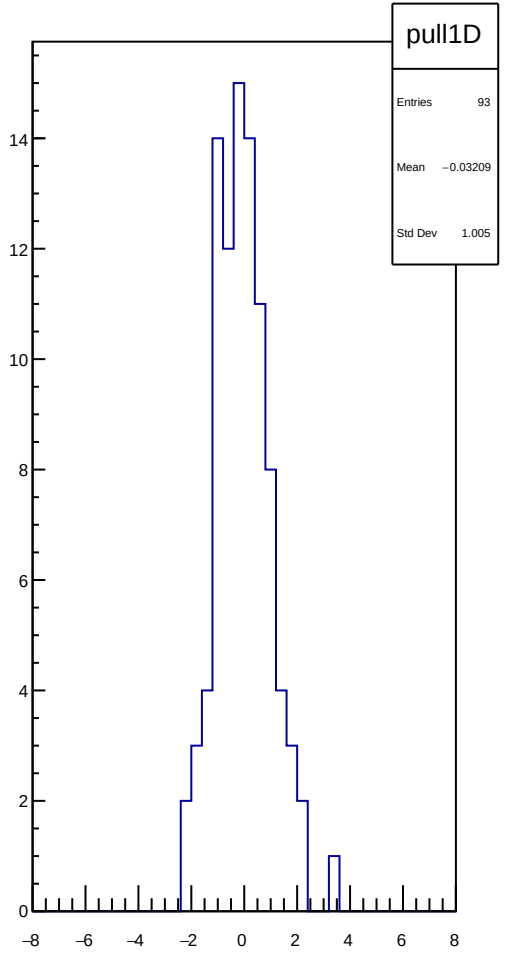

asym_atr2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.368e+05 / 92
p0 7.892e−10 ± 7.258e−13
8
7
6
5
4
3
2
1

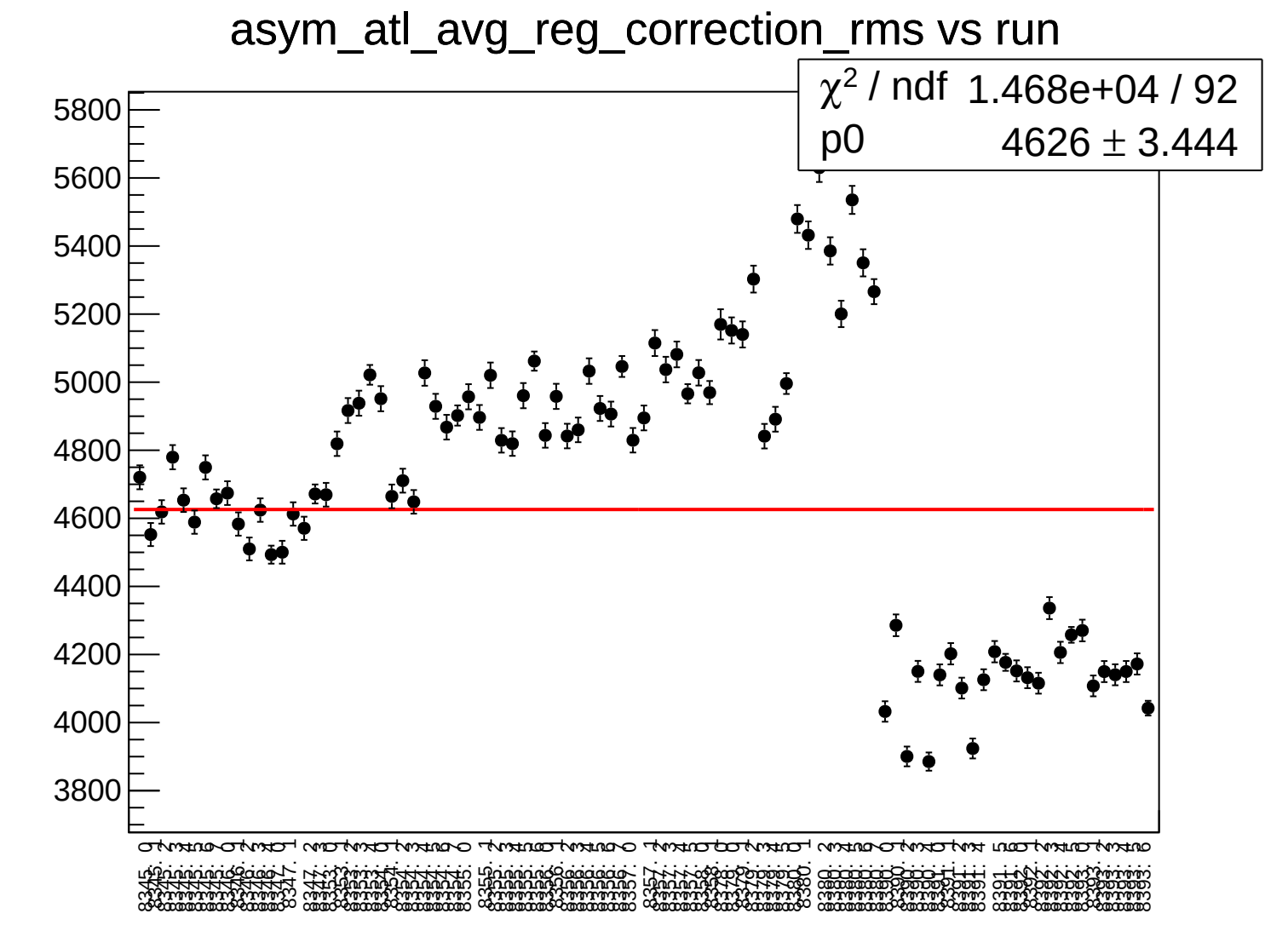

reg_asym_atl_avg_mean vs run
χ² / ndf 84.74 / 92
p0 −340.1± 1741
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 31.51
Std Dev 0
2
1
0
−1
−2

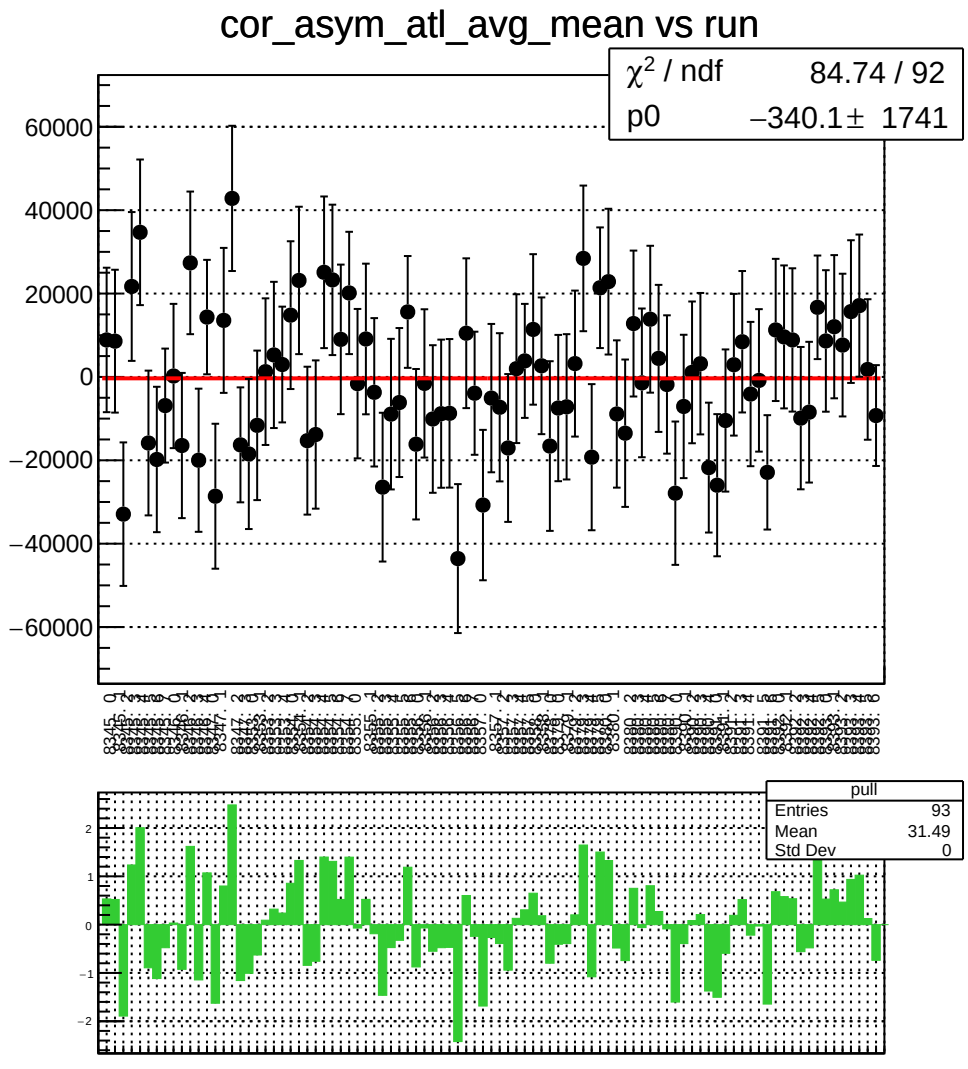

pull1D
Entries 93
Mean −0.00811
Std Dev 0.9545
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

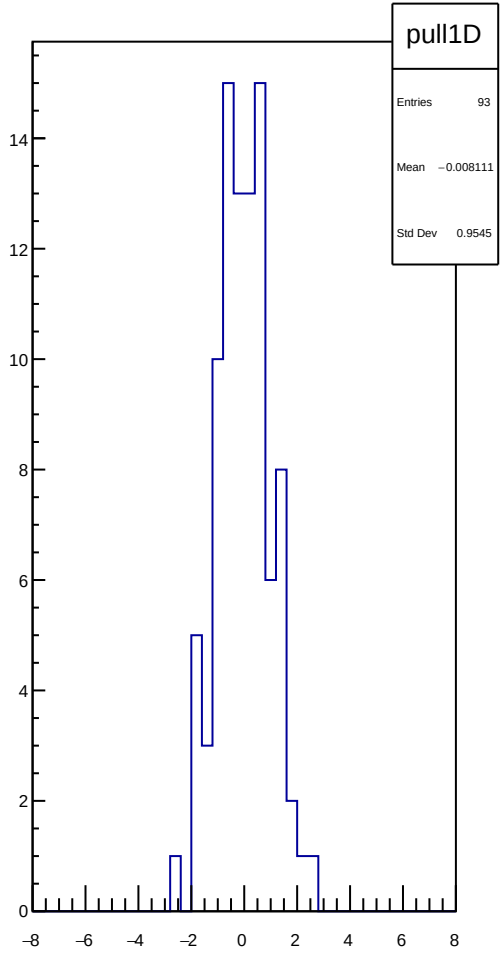

reg_asym_atl_avg_rms vs run
χ² / ndf 832.6 / 92
p0 1660 ± 1.231
1740
1720
1700
1680
1660
1640
1620
1600
1580

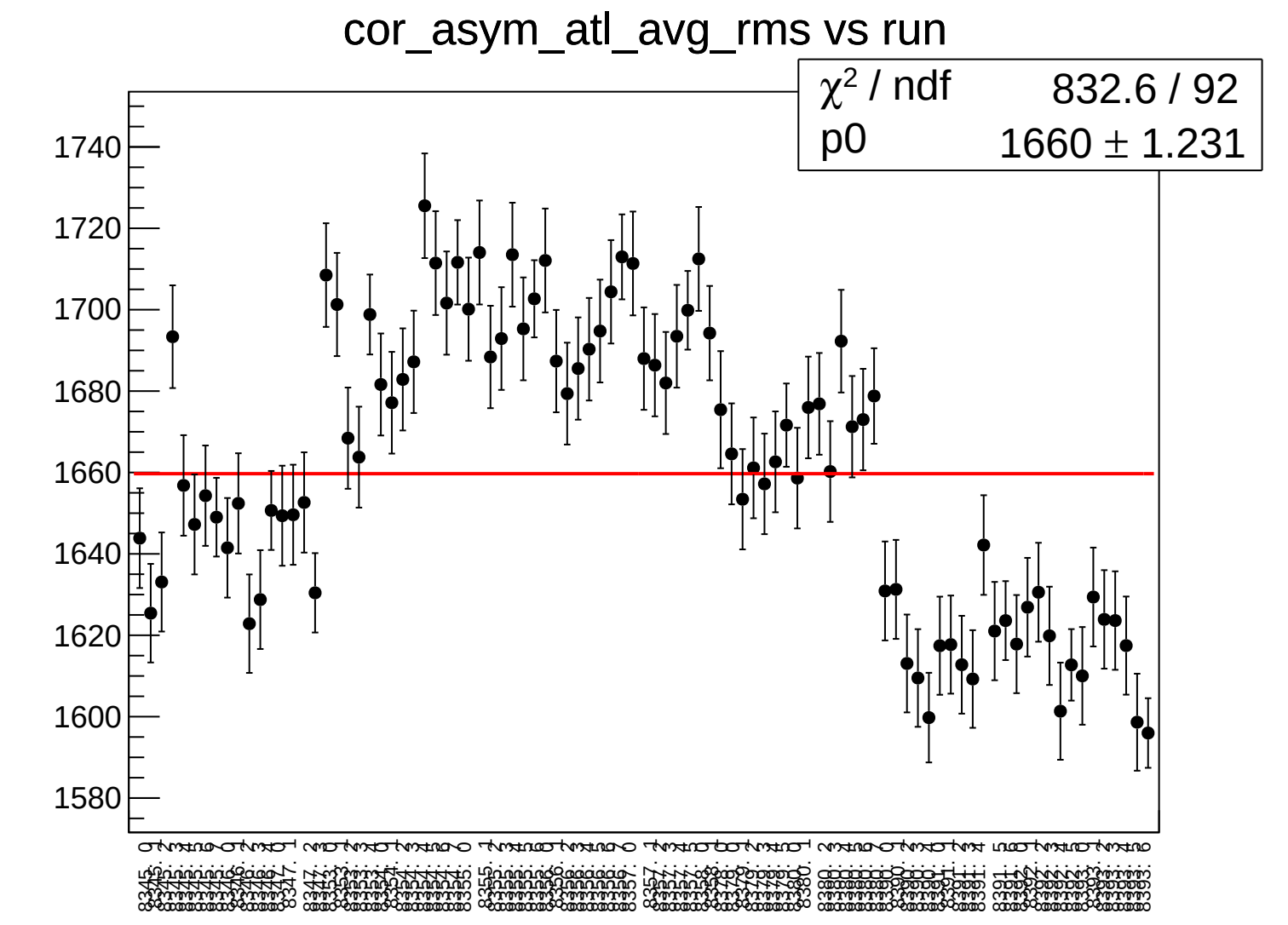

asym_atl_avg_reg_correction_mean vs run
×10^3
χ² / ndf 94.02 / 92
p0 8775 ± 4870
200
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean −108.9
Std Dev 0
3
2
1
0
−1
−2

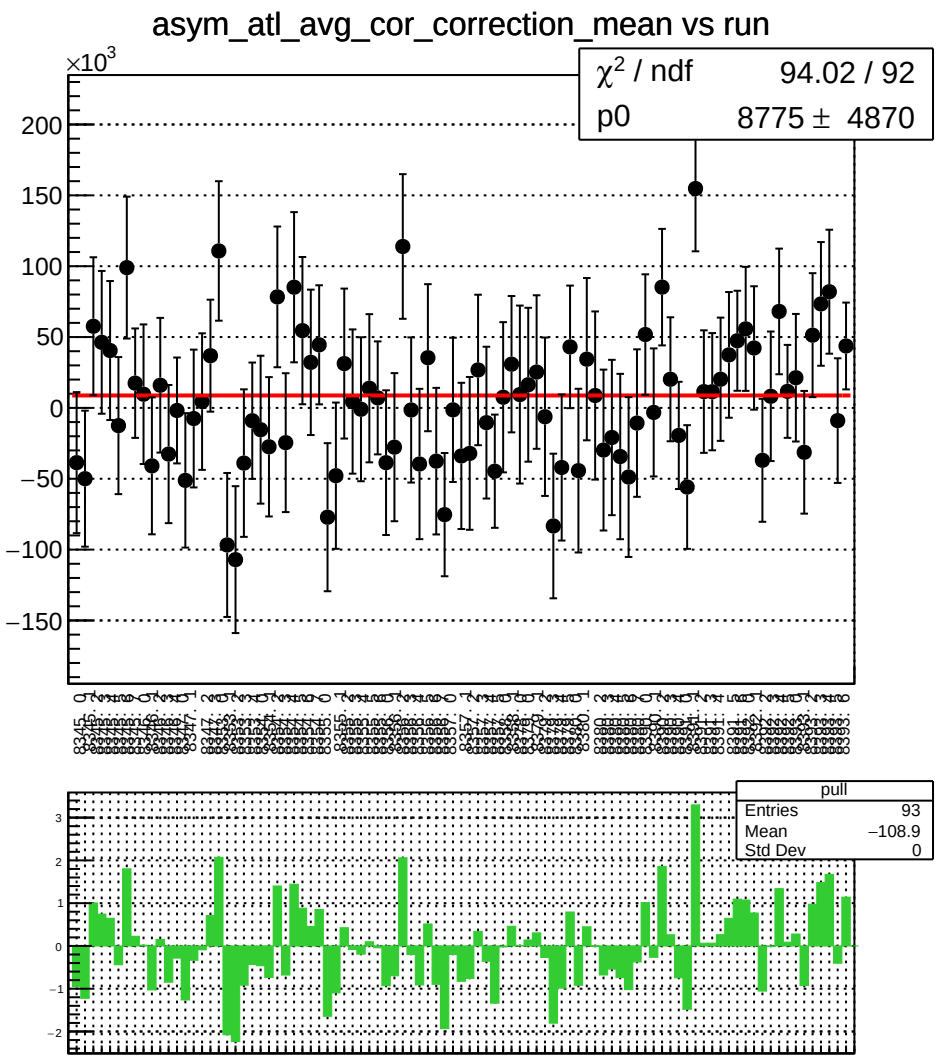

pull1D
Entries 93
Mean −0.03209
Std Dev 1.005
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

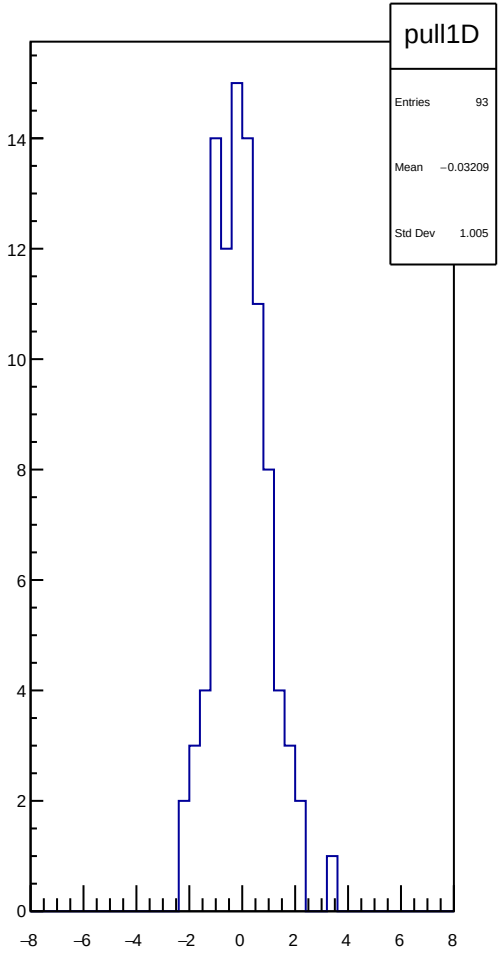

asym_atl_avg_reg_correction_rms vs run
χ² / ndf 1.468e+04 / 92
p0 4626 ± 3.444
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800

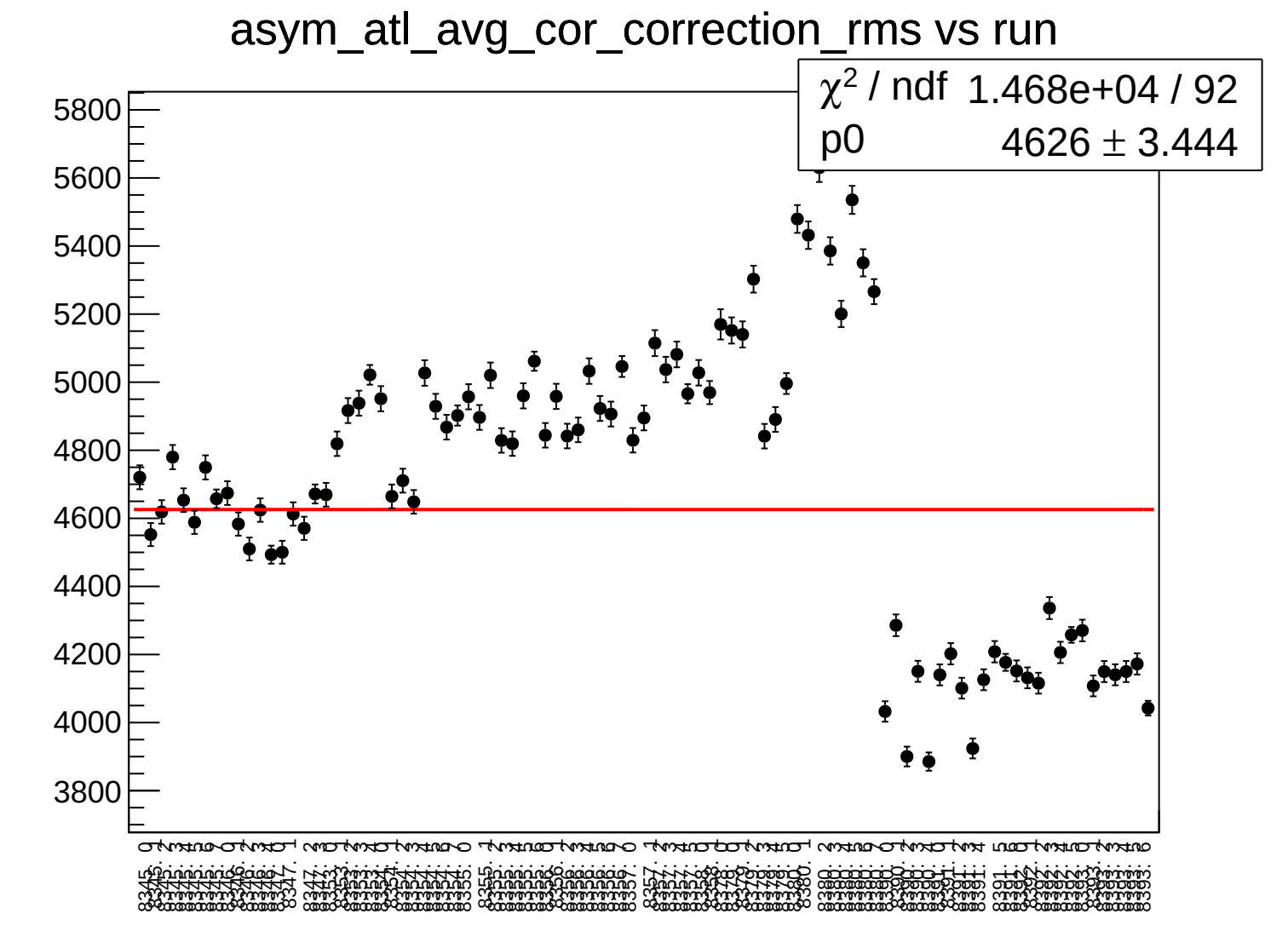

cor_asym_atl_avg_mean vs run
χ² / ndf 84.74 / 92
p0 −340.1± 1741
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 31.49
Std Dev 0
2
1
0
−1
−2

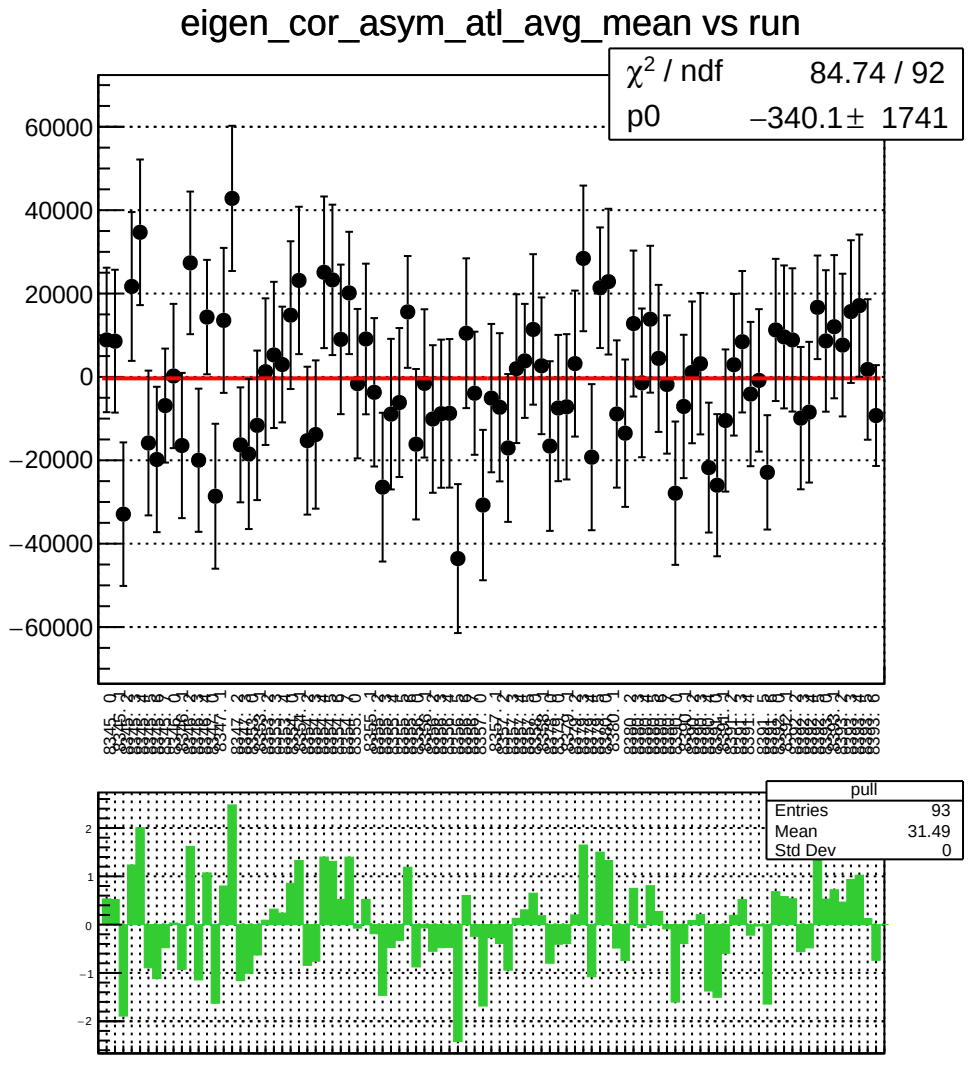

pull1D
Entries 93
Mean −0.008111
Std Dev 0.9545
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

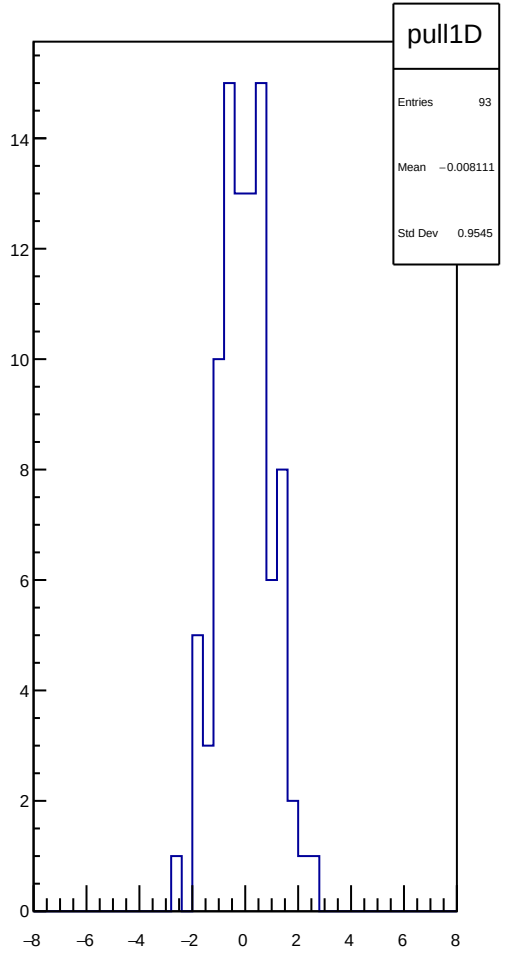

cor_asym_atl_avg_rms vs run
χ² / ndf 832.6 / 92
p0 1660 ± 1.231
1740
1720
1700
1680
1660
1640
1620
1600
1580

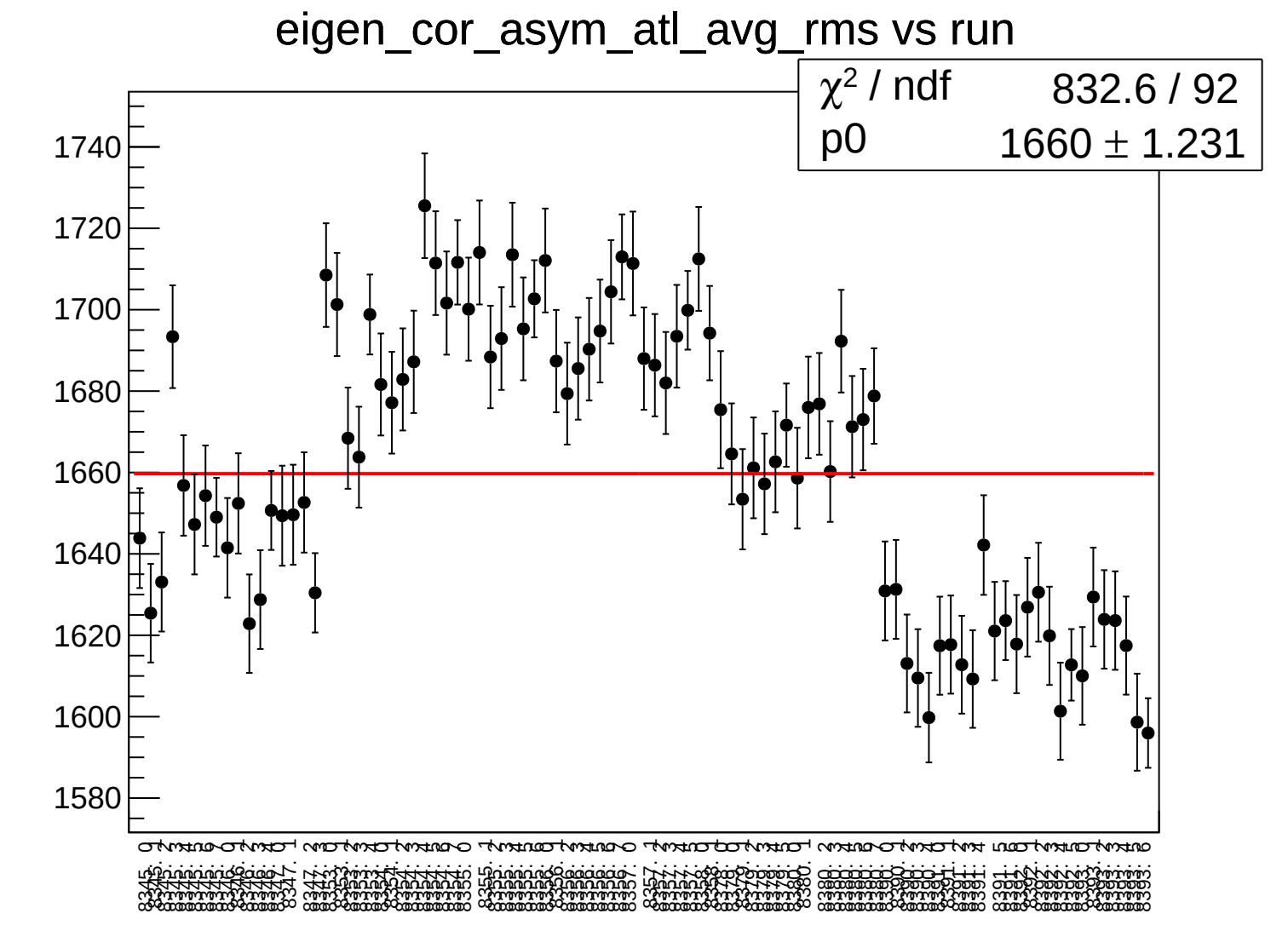

asym_atl_avg_cor_correction_mean vs run
×10^3
χ² / ndf 94.02 / 92
p0 8775 ± 4870
pull
Entries 93
Mean −108.9
Std Dev 0

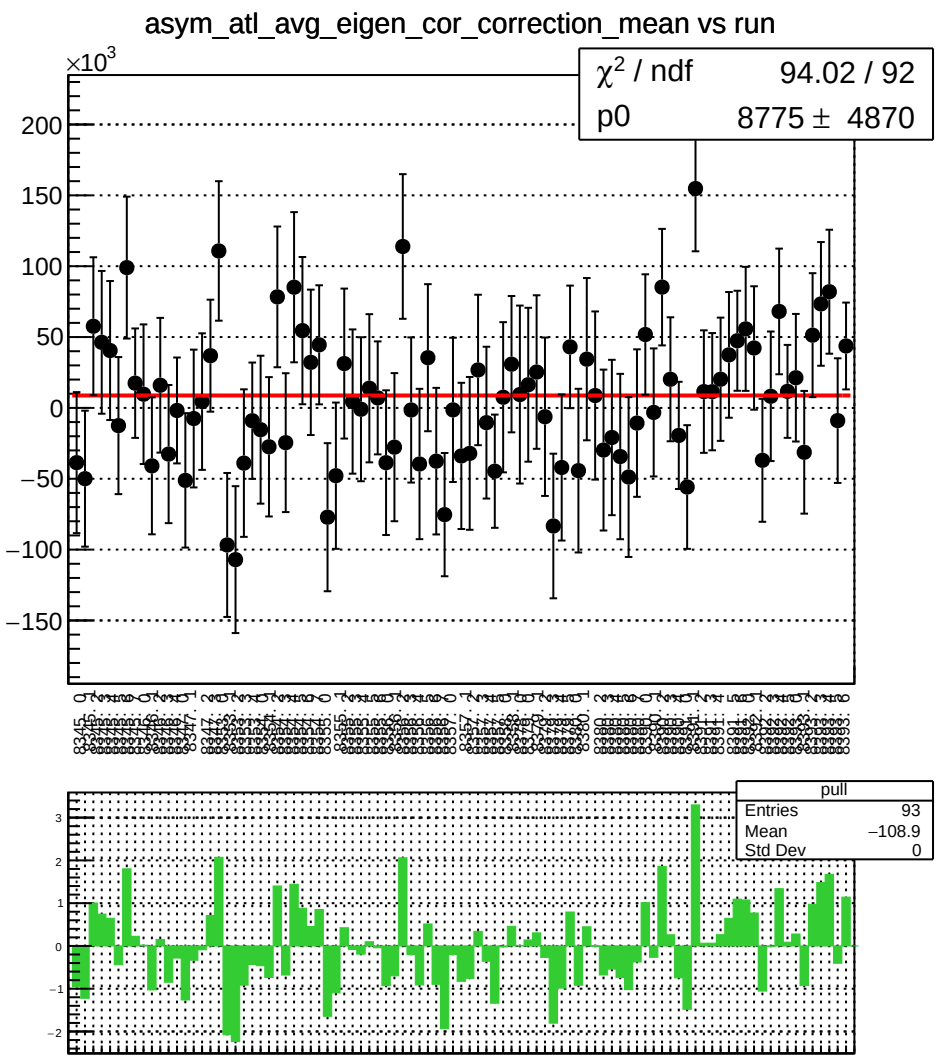

pull1D
Entries 93
Mean −0.03209
Std Dev 1.005

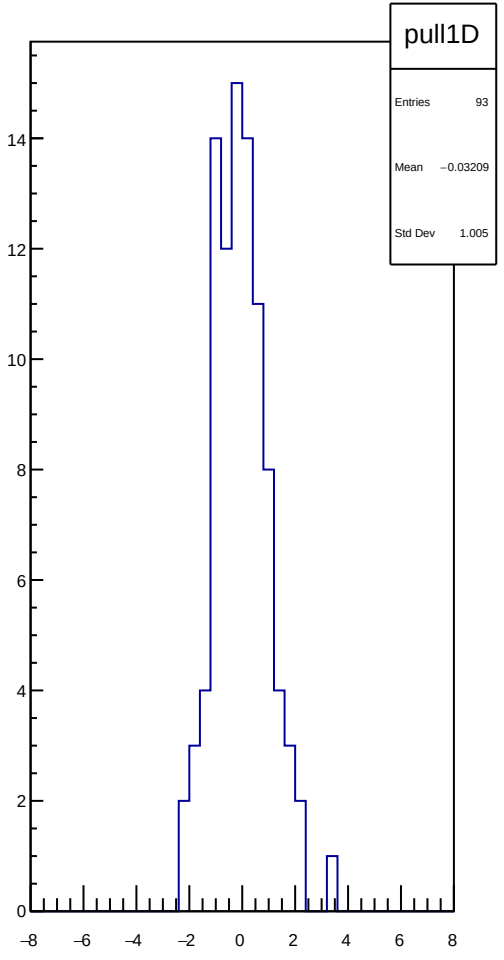

asym_atl_avg_cor_correction_rms vs run
χ² / ndf 1.468e+04 / 92
p0 4626 ± 3.444
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800

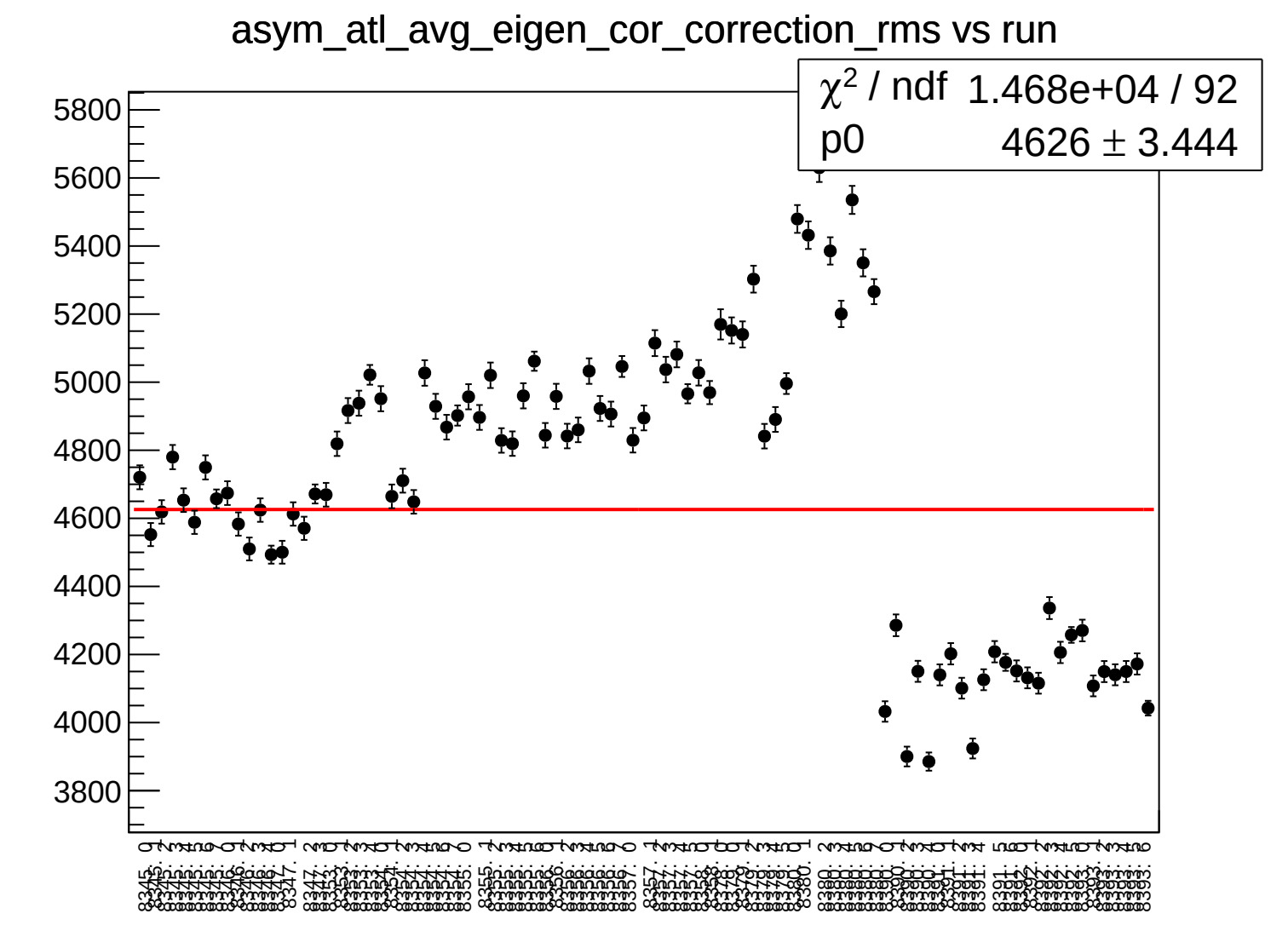

eigen_cor_asym_atl_avg_mean vs run
χ² / ndf 84.74 / 92
p0 −340.1± 1741
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 31.49
Std Dev 0
2
1
0
−1
−2

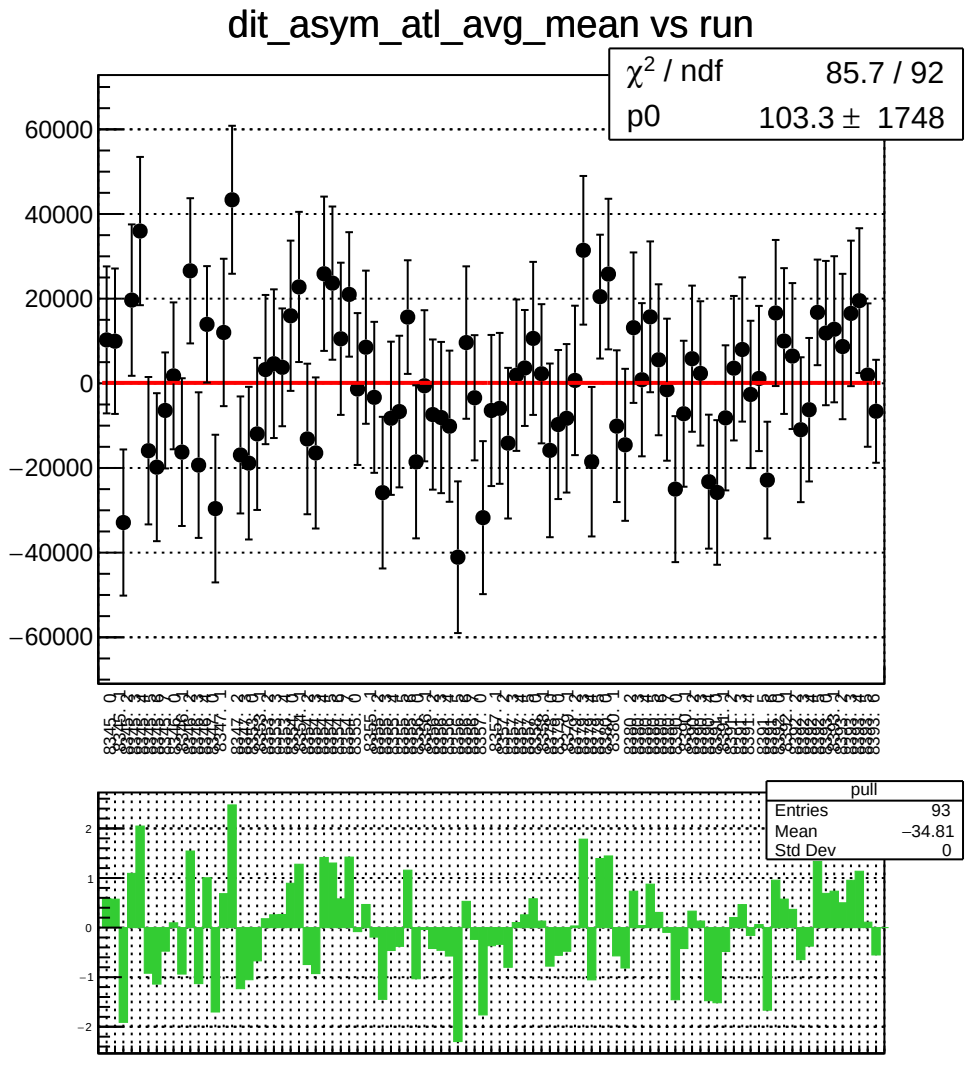

pull1D
Entries 93
Mean −0.008111
Std Dev 0.9545
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

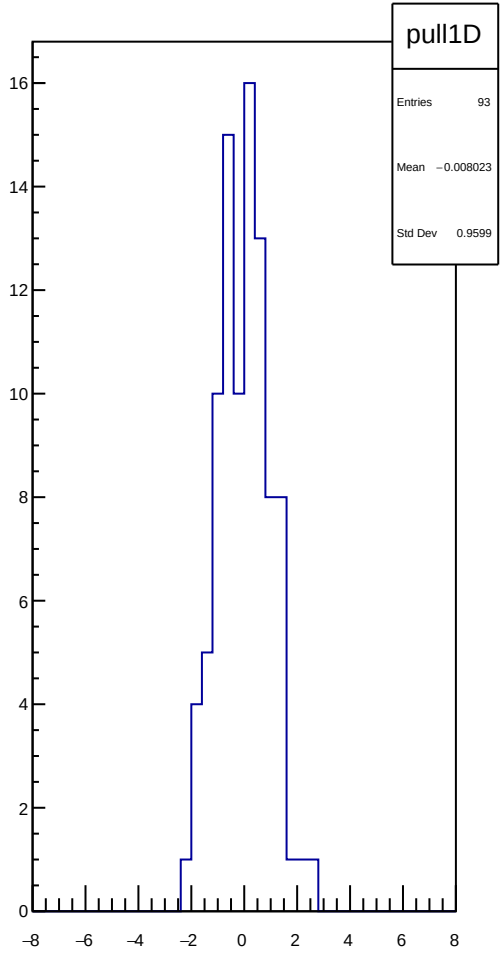

eigen_cor_asym_atl_avg_rms vs run
χ² / ndf 832.6 / 92
p0 1660 ± 1.231
1740
1720
1700
1680
1660
1640
1620
1600
1580

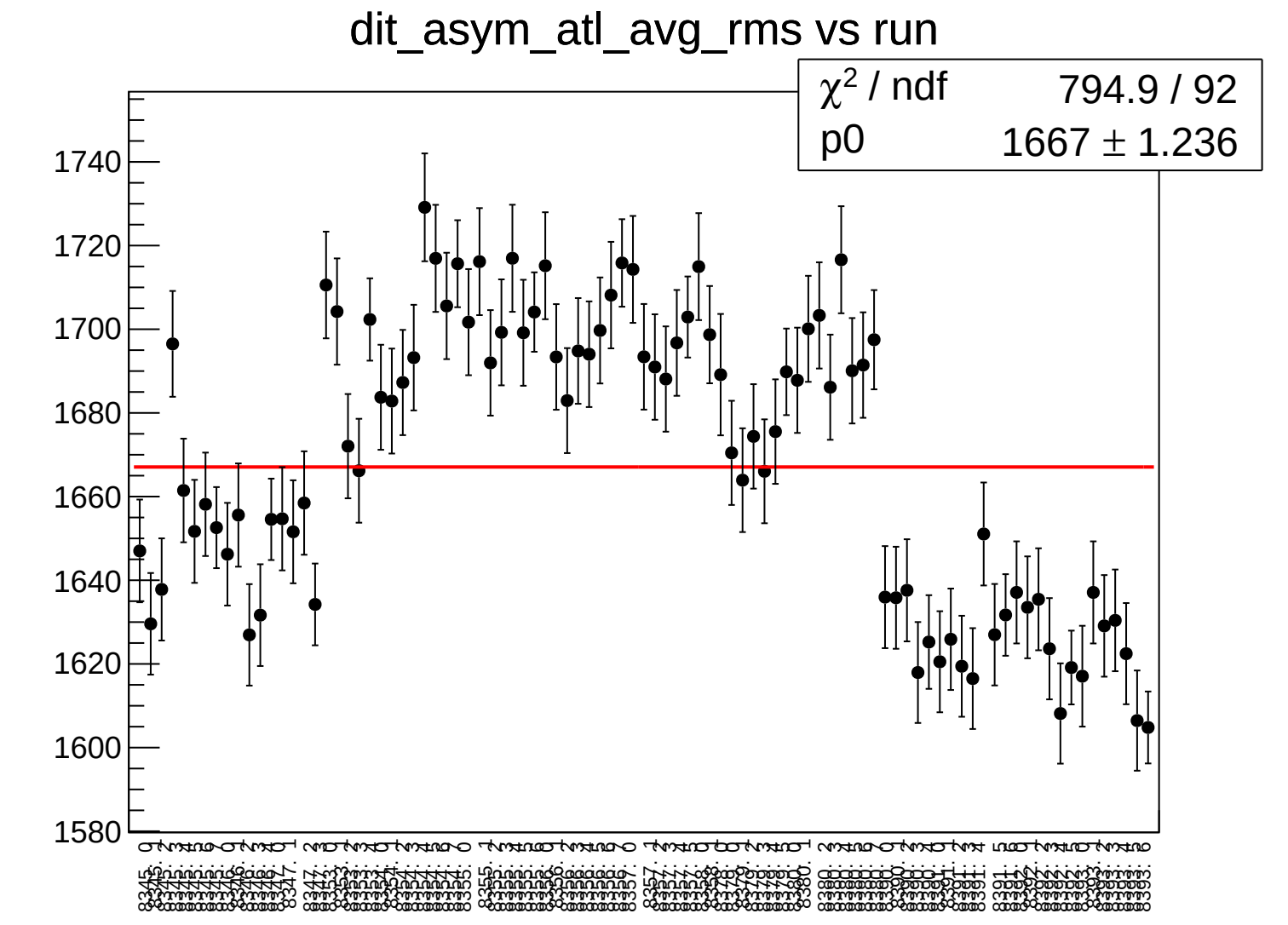

asym_atl_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 94.02 / 92
p0 8775 ± 4870
pull
Entries 93
Mean −108.9
Std Dev 0

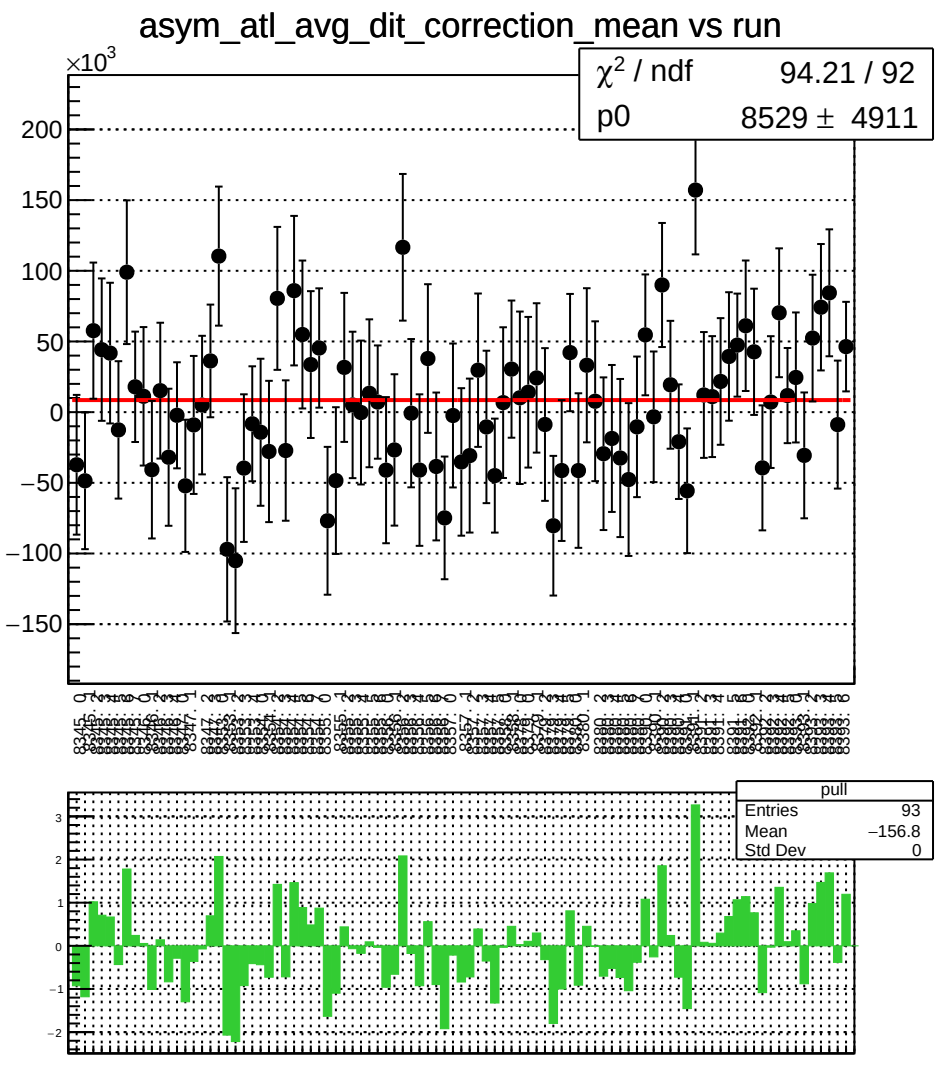

pull1D
Entries 93
Mean −0.03209
Std Dev 1.005

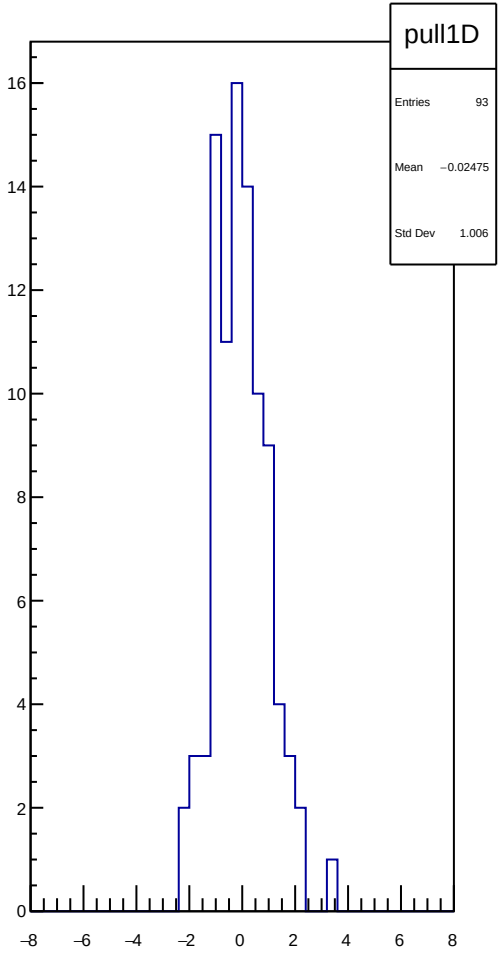

asym_atl_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.468e+04 / 92
p0 4626 ± 3.444
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800

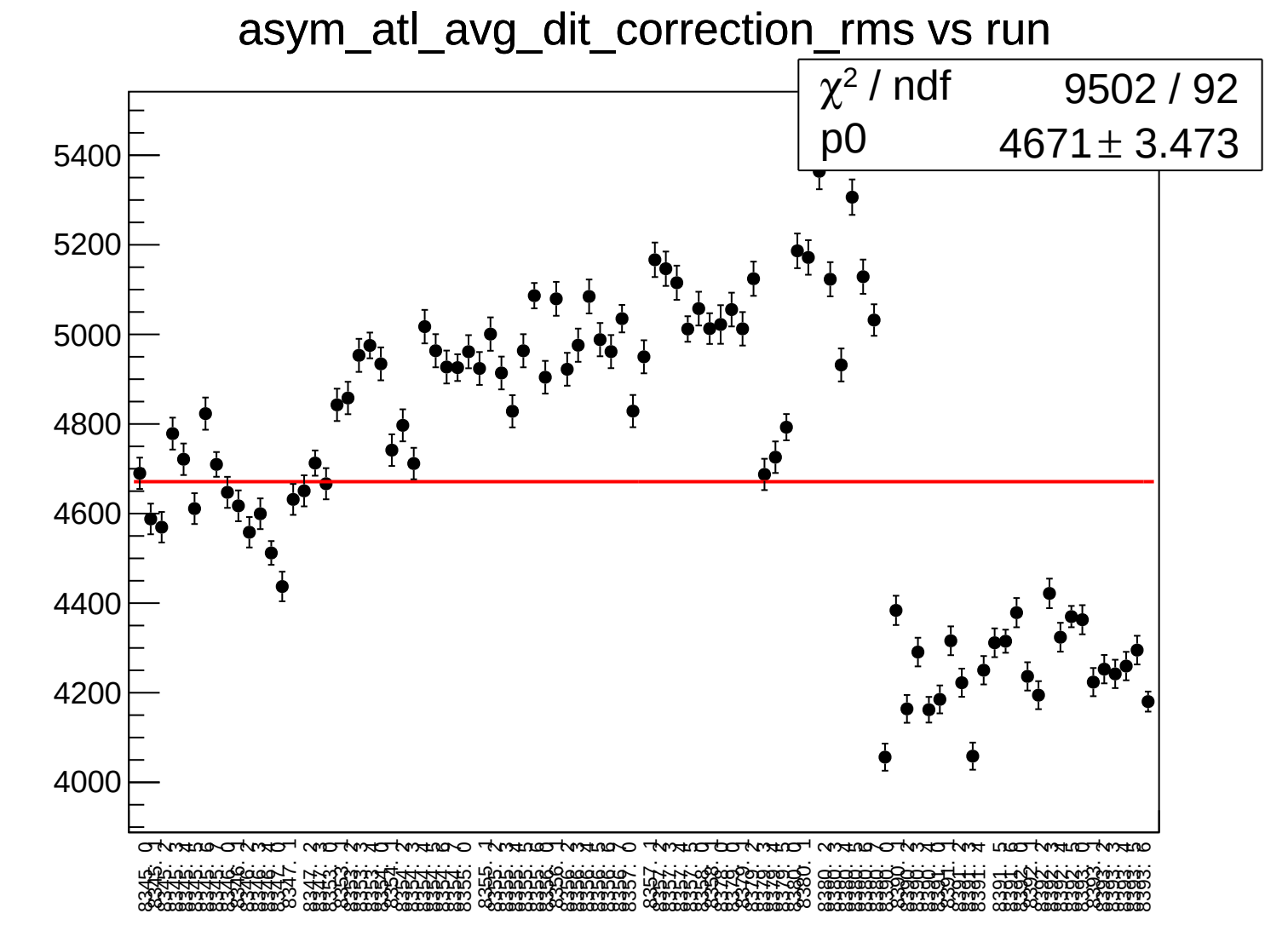

dit_asym_atl_avg_mean vs run
χ² / ndf 85.7 / 92
p0 103.3 ± 1748
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −34.81
Std Dev 0
2
1
0
−1
−2

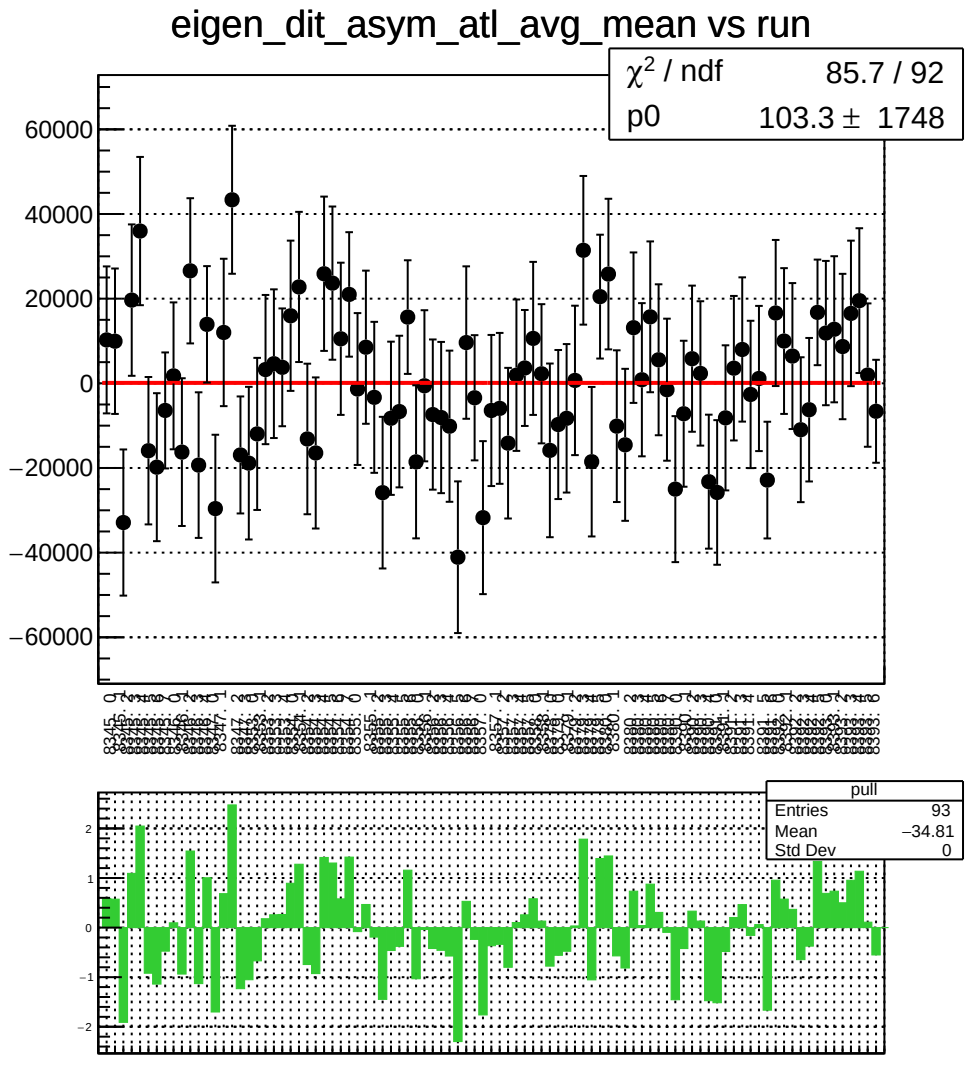

pull1D
Entries 93
Mean −0.008023
Std Dev 0.9599
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

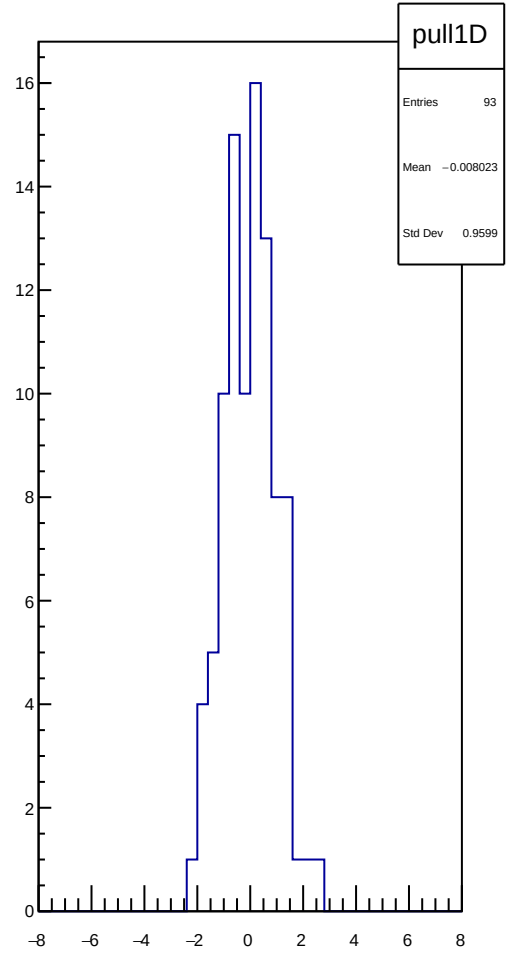

dit_asym_atl_avg_rms vs run
χ² / ndf 794.9 / 92
p0 1667 ± 1.236
1740
1720
1700
1680
1660
1640
1620
1600
1580

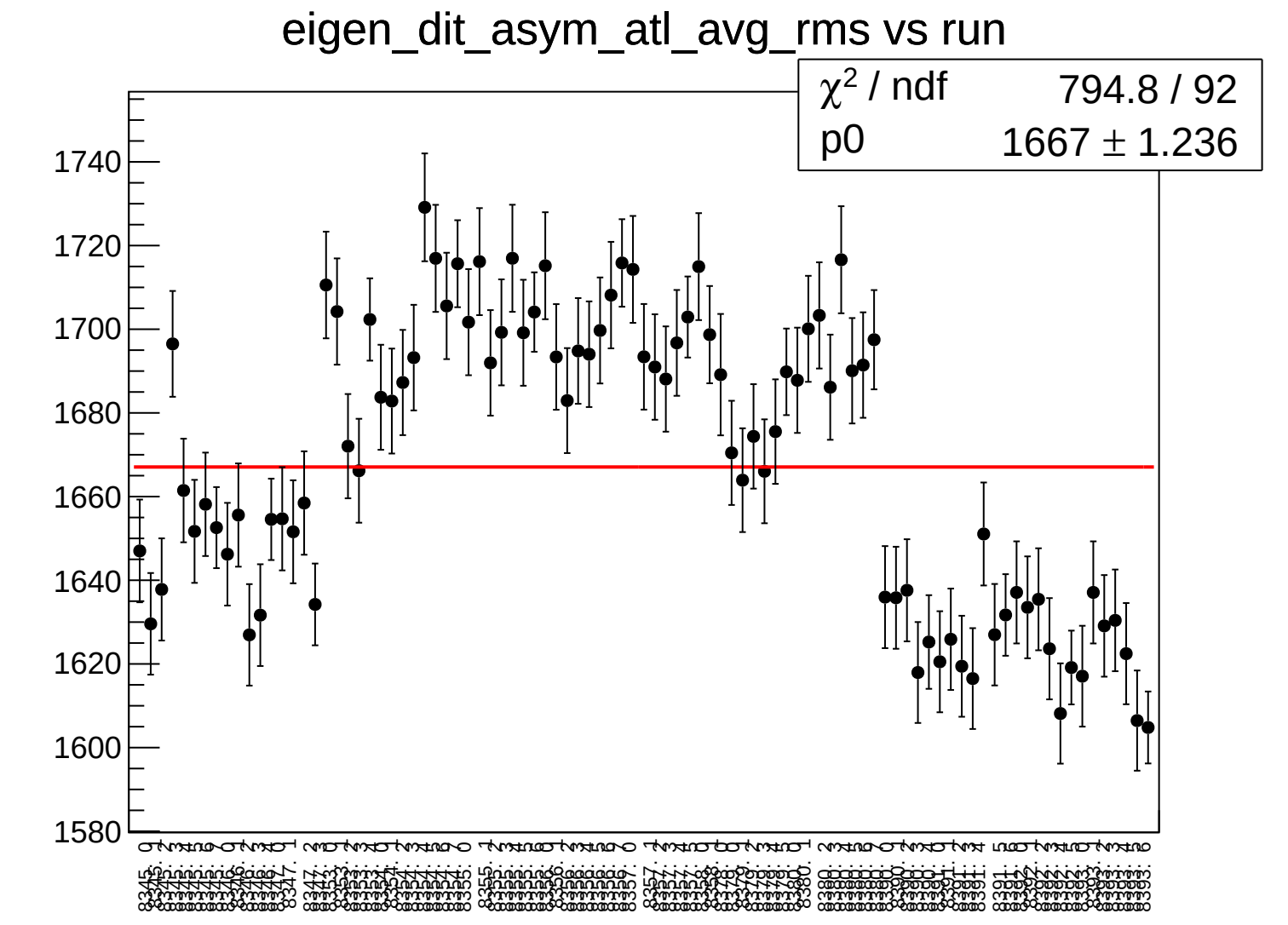

asym_atl_avg_dit_correction_mean vs run
×10^3
χ² / ndf 94.21 / 92
p0 8529 ± 4911
200
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean −156.8
Std Dev 0
3
2
1
0
−1
−2

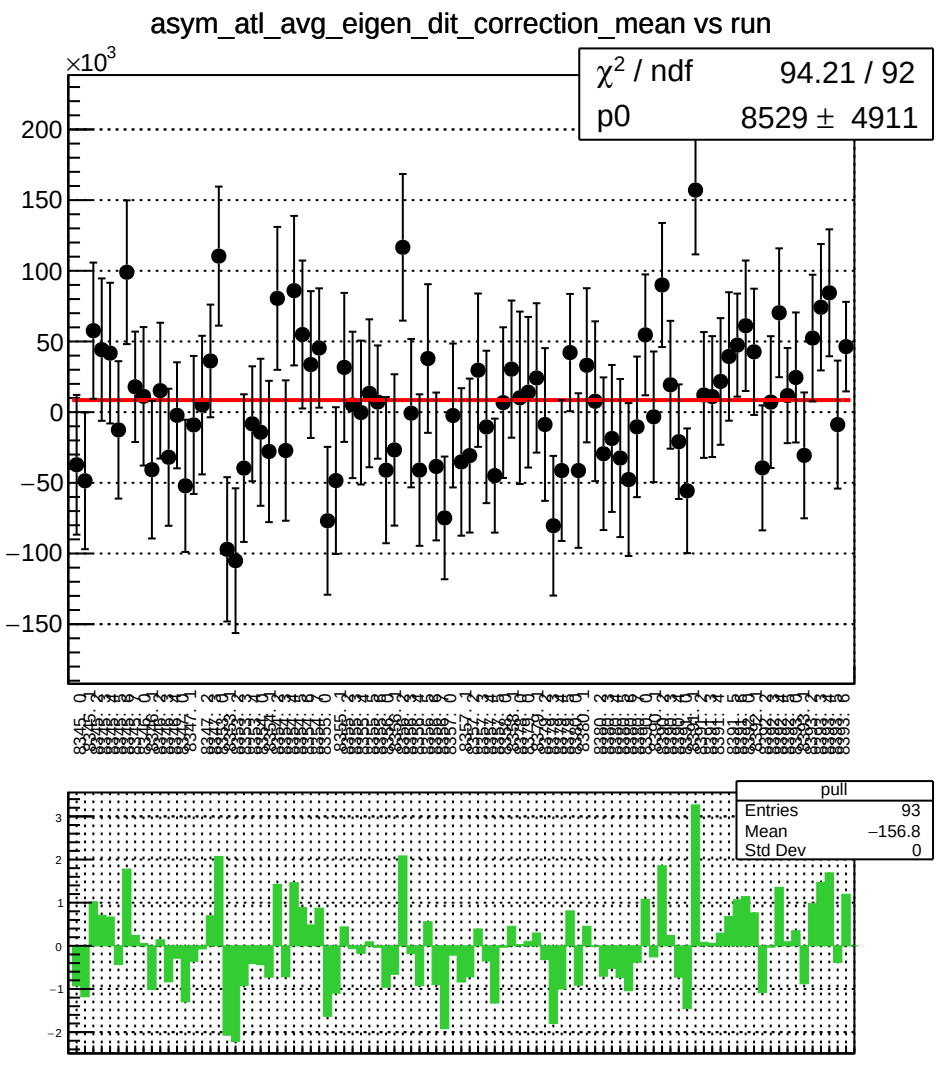

pull1D
Entries 93
Mean −0.02475
Std Dev 1.006
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

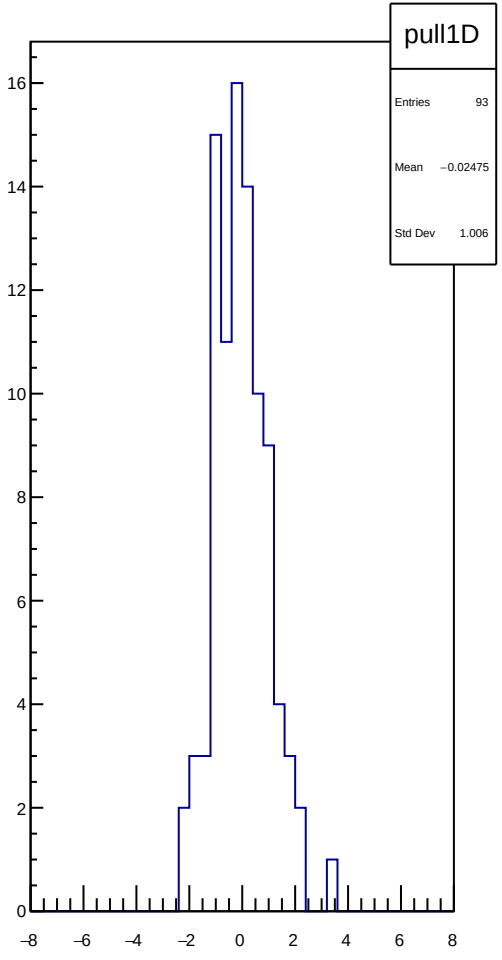

asym_atl_avg_dit_correction_rms vs run
χ² / ndf 9502 / 92
p0 4671 ± 3.473
5400
5200
5000
4800
4600
4400
4200
4000

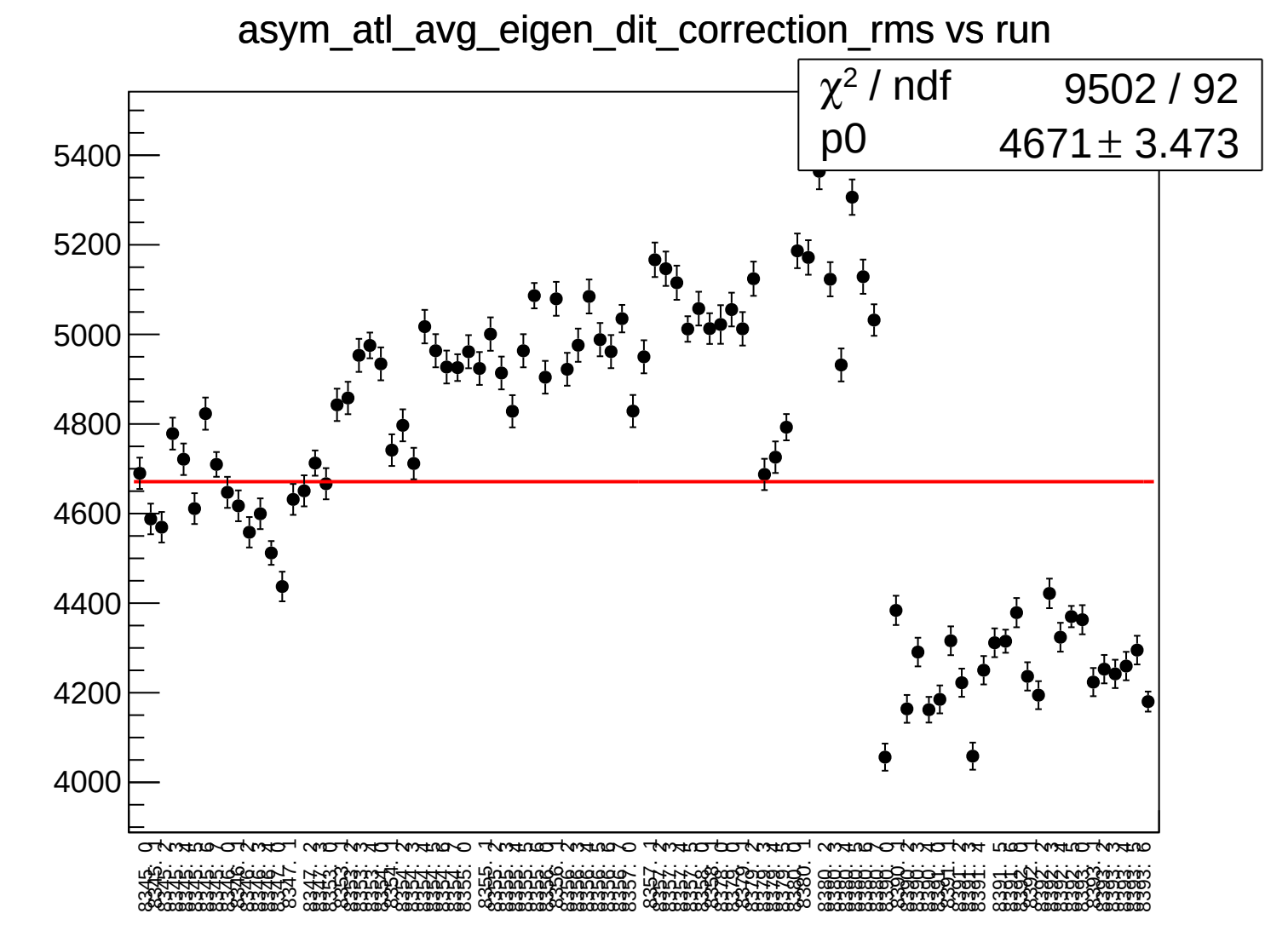

eigen_dit_asym_atl_avg_mean vs run
χ² / ndf 85.7 / 92
p0 103.3 ± 1748
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −34.81
Std Dev 0
2
1
0
−1
−2

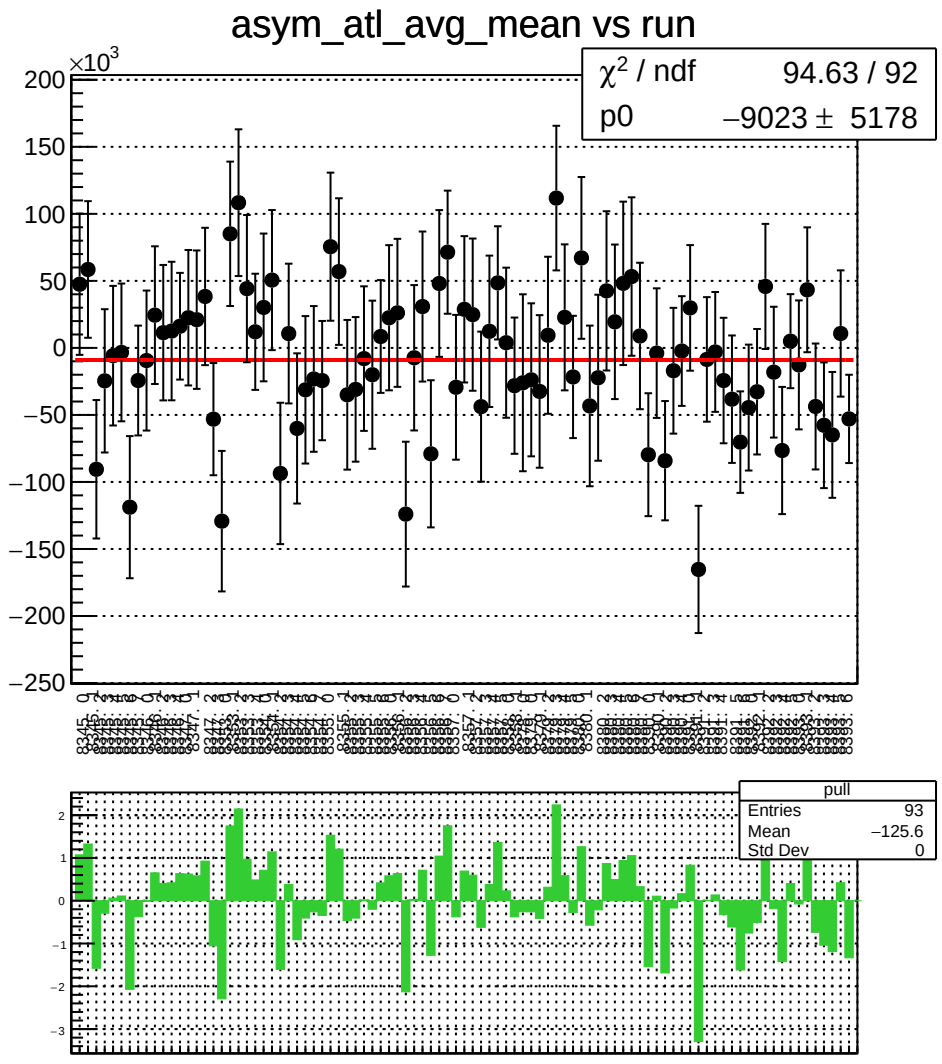

pull1D
Entries 93
Mean −0.008023
Std Dev 0.9599
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

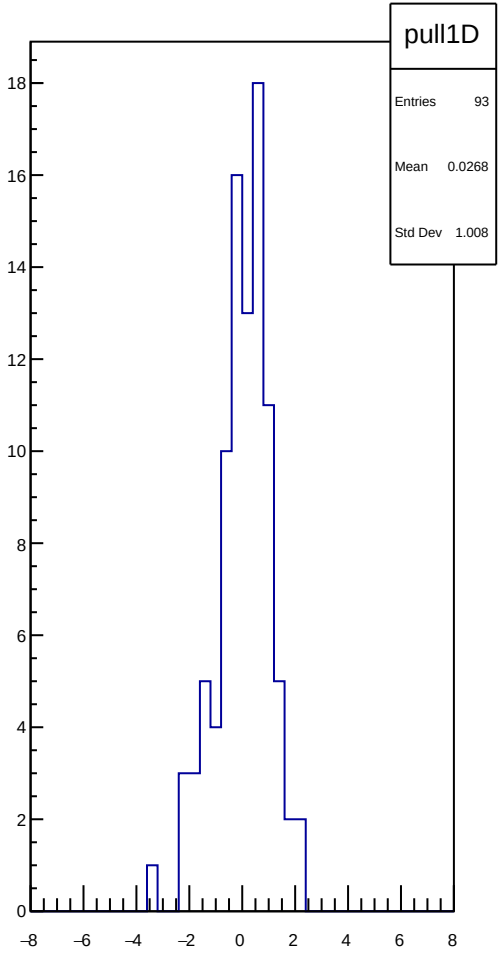

eigen_dit_asym_atl_avg_rms vs run
χ² / ndf 794.8 / 92
p0 1667 ± 1.236
1740
1720
1700
1680
1660
1640
1620
1600
1580

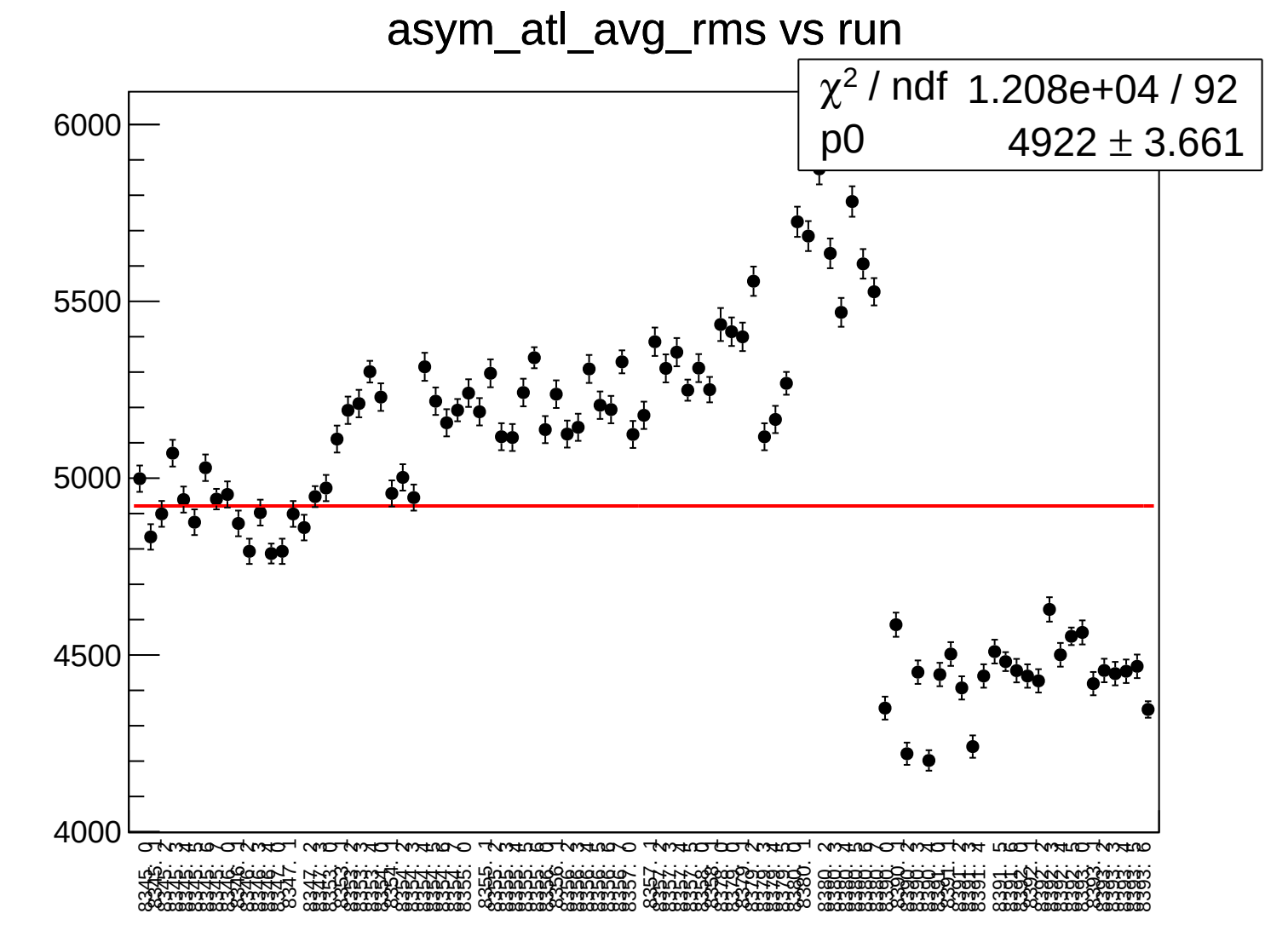

asym_atl_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 94.21 / 92
p0 8529 ± 4911
200
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean −156.8
Std Dev 0
3
2
1
0
−1
−2

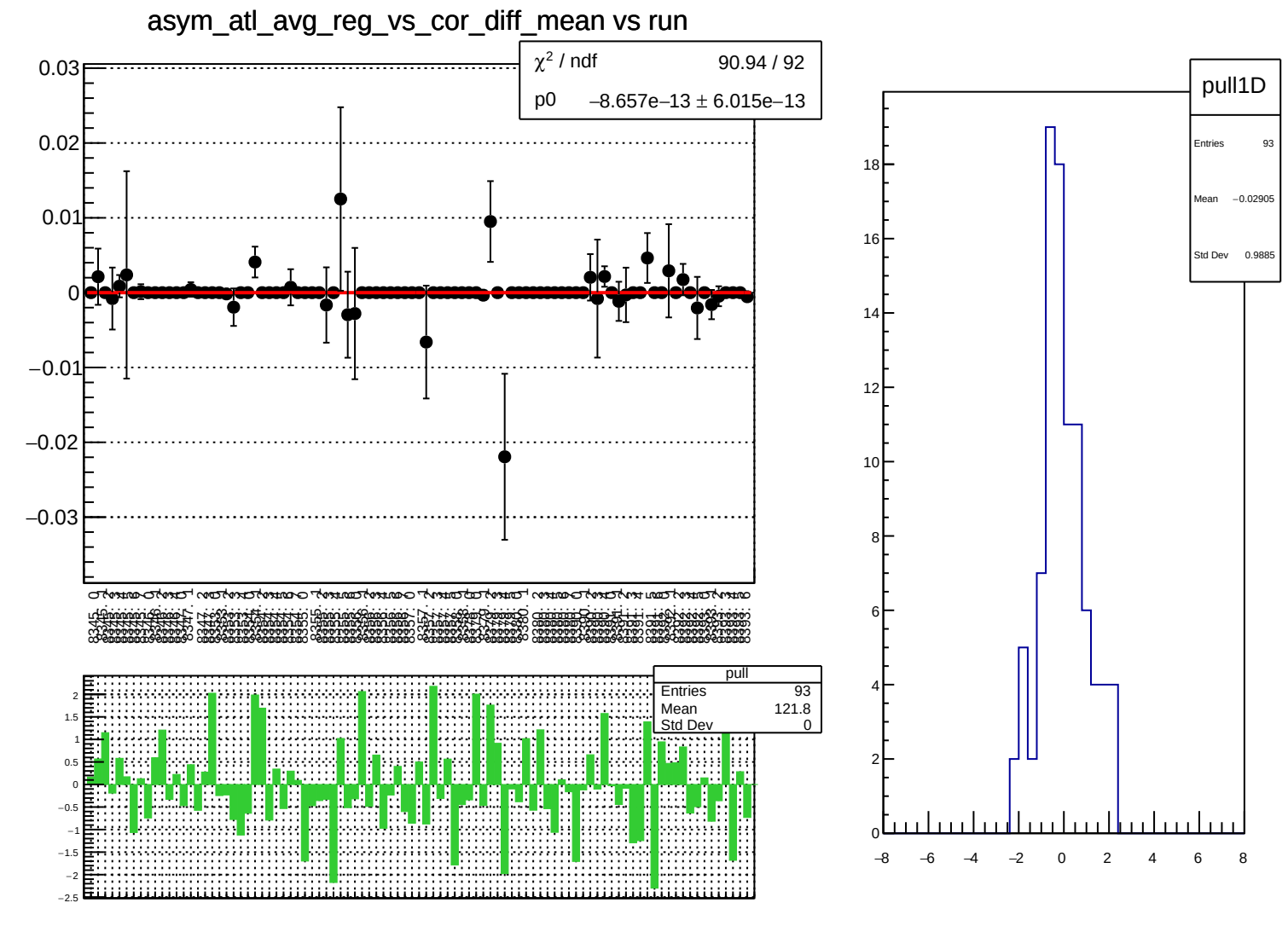

pull1D
Entries 93
Mean −0.02475
Std Dev 1.006
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

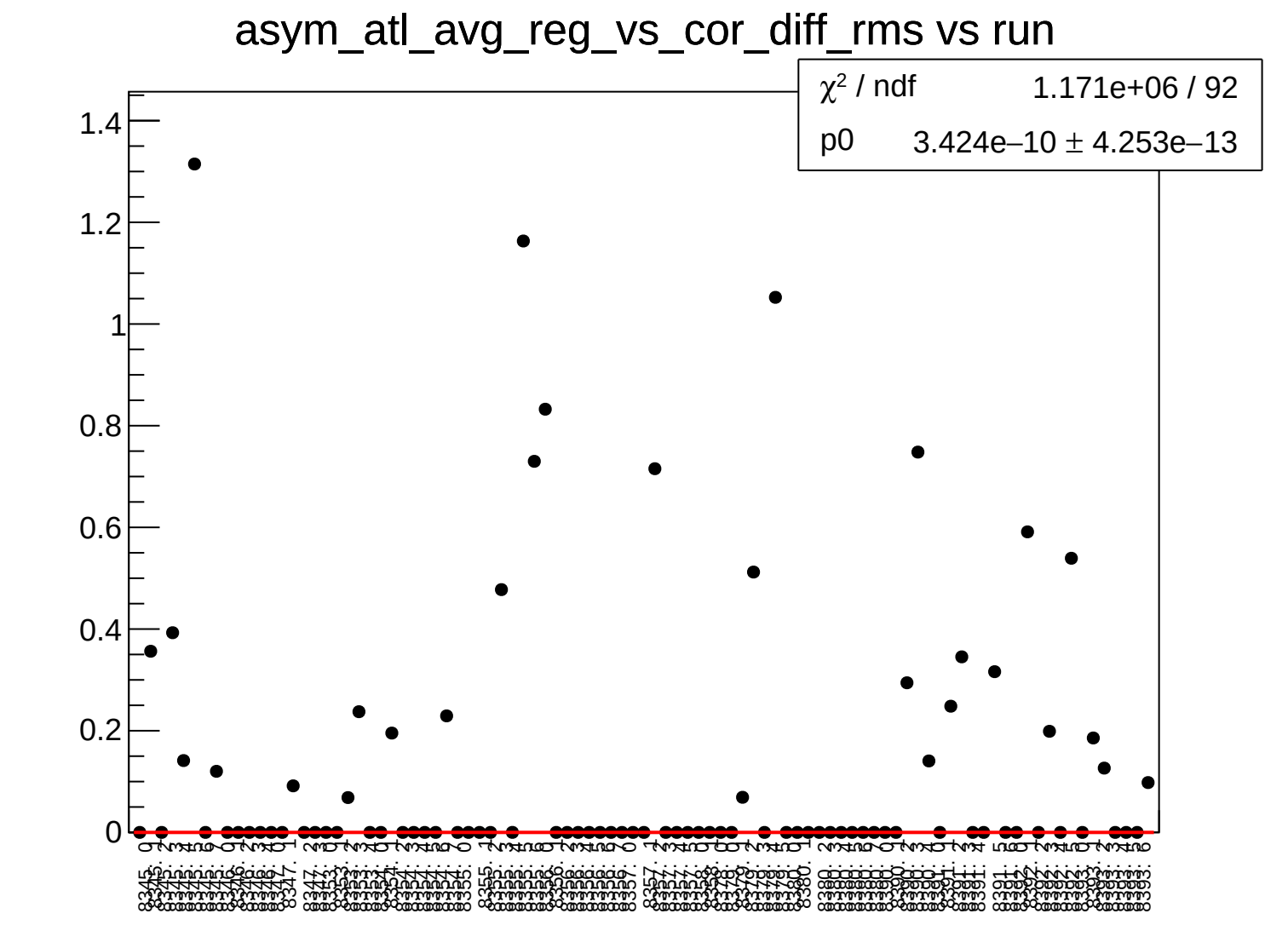

asym_atl_avg_eigen_dit_correction_rms vs run
χ² / ndf 9502 / 92
p0 4671 ± 3.473
5400
5200
5000
4800
4600
4400
4200
4000

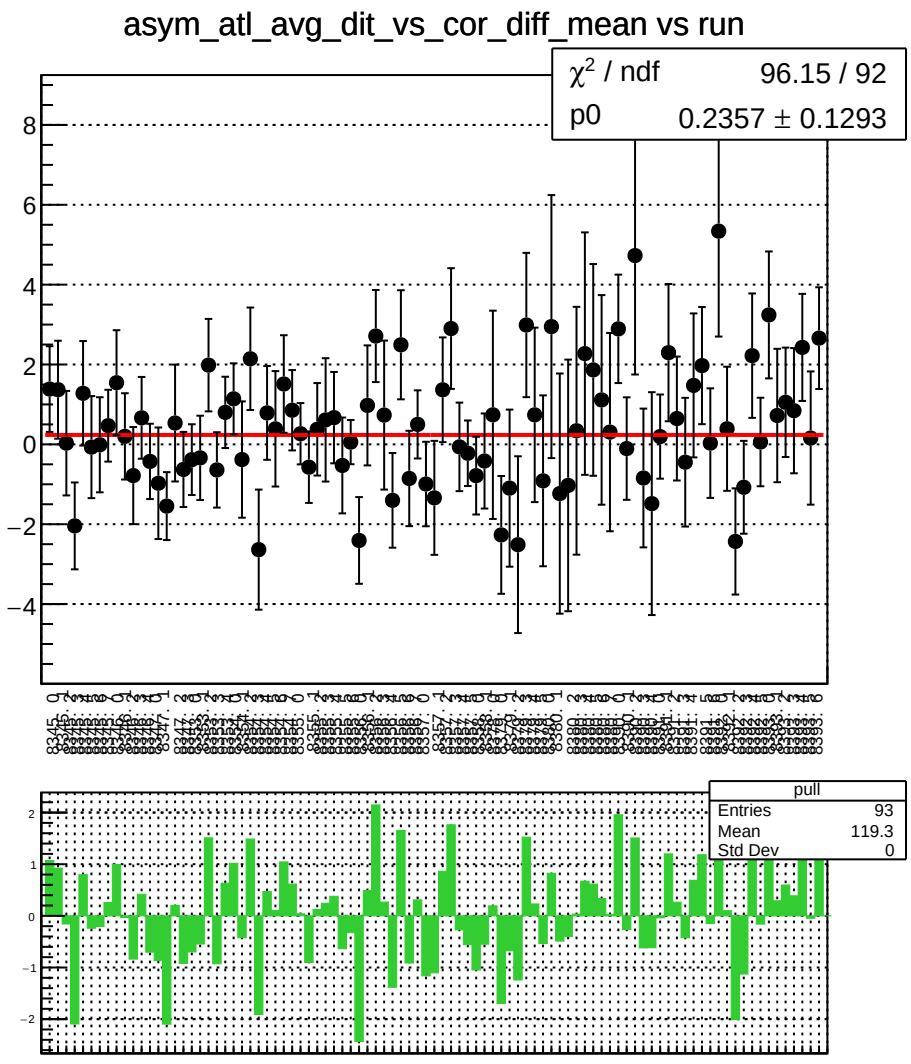

asym_atl_avg_mean vs run
×10^3
χ² / ndf 94.63 / 92
p0 −9023 ± 5178
pull
Entries 93
Mean −125.6
Std Dev 0

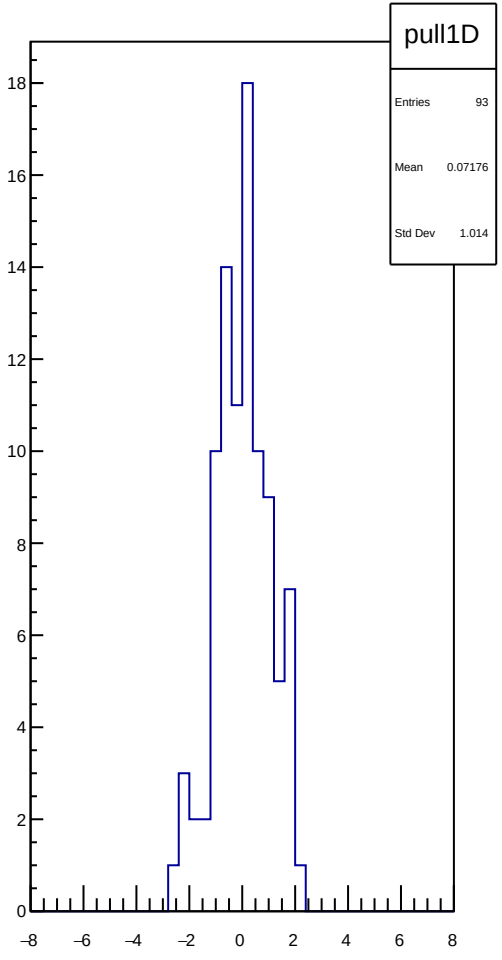

pull1D
Entries 93
Mean 0.0268
Std Dev 1.008

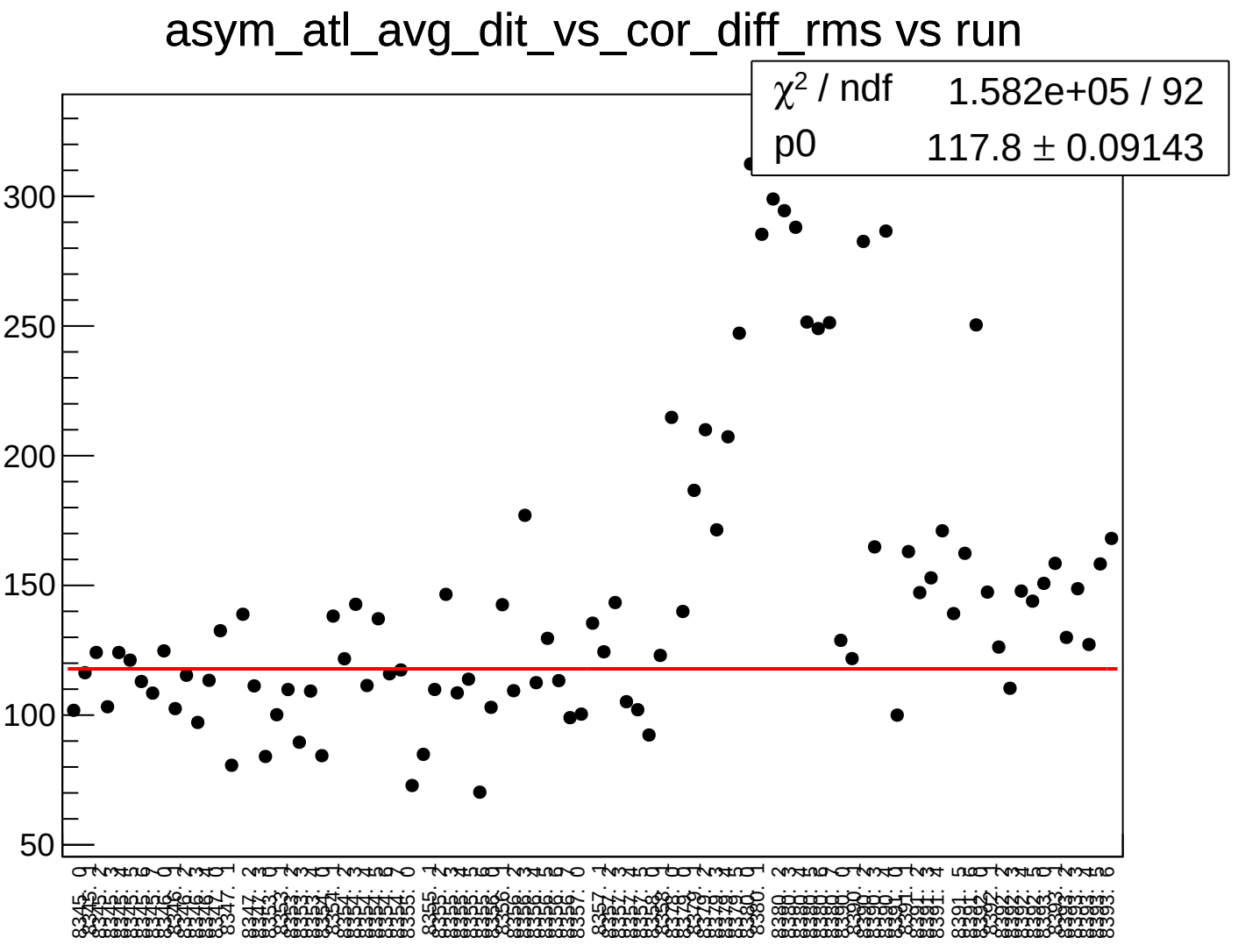

asym_atl_avg_rms vs run
χ² / ndf 1.208e+04 / 92
p0 4922 ± 3.661
6000
5500
5000
4500
4000

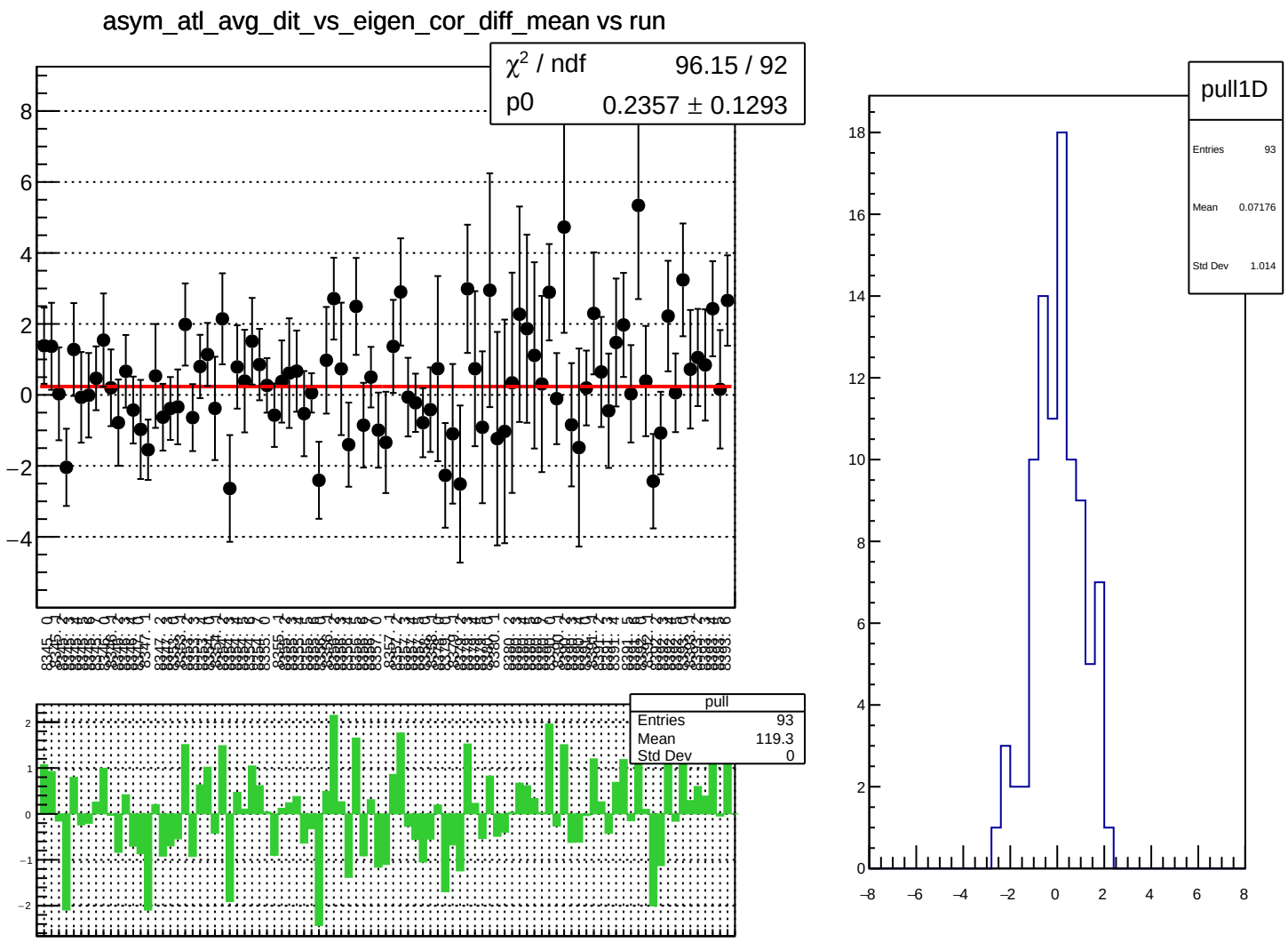

asym_atl_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 90.94 / 92
p0 −8.657e−13 ± 6.015e−13
pull
Entries 93
Mean 121.8
Std Dev 0
pull1D
Entries 93
Mean −0.02905
Std Dev 0.9885

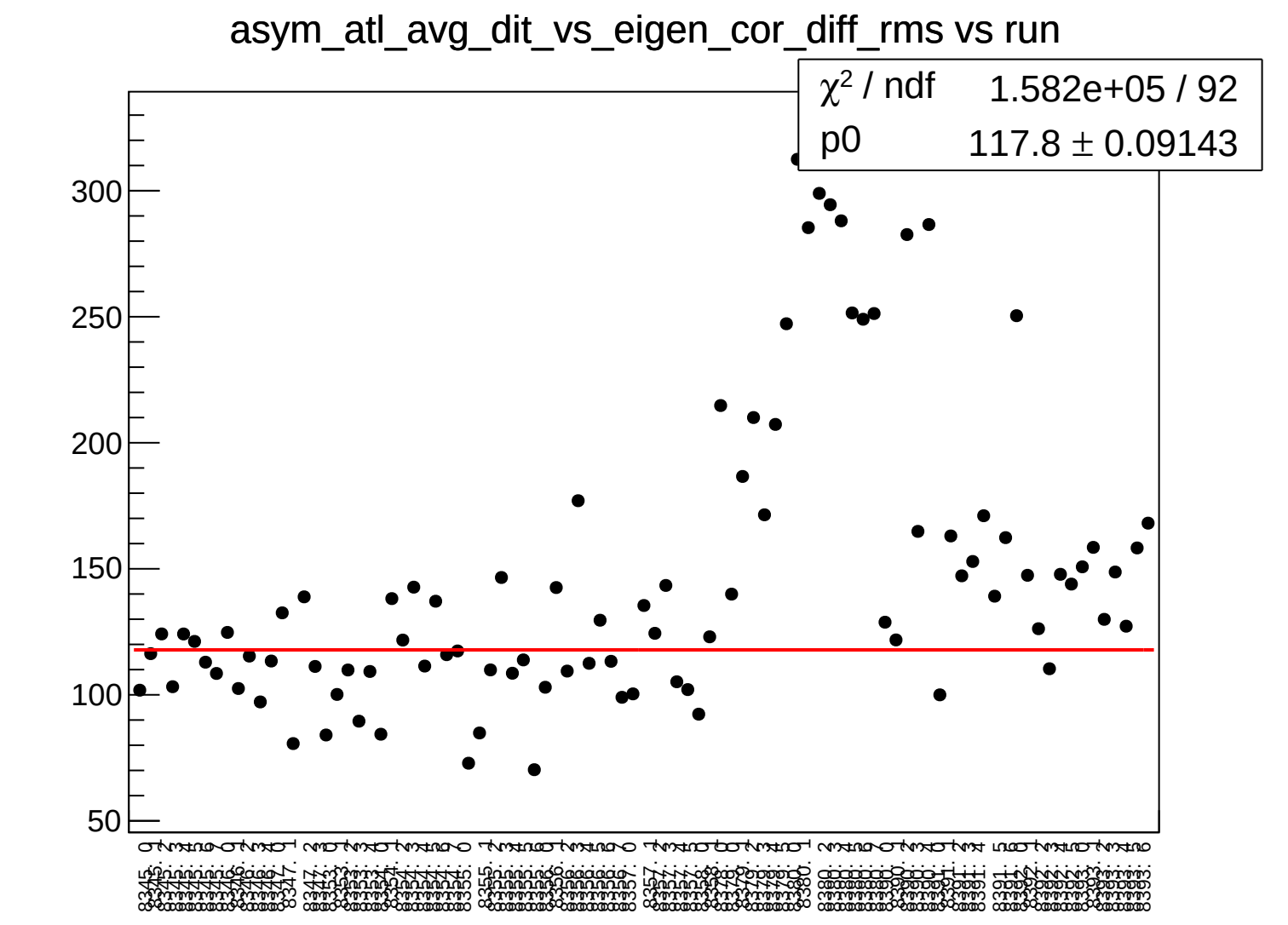

asym_atl_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.171e+06 / 92
p0 3.424e−10 ± 4.253e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

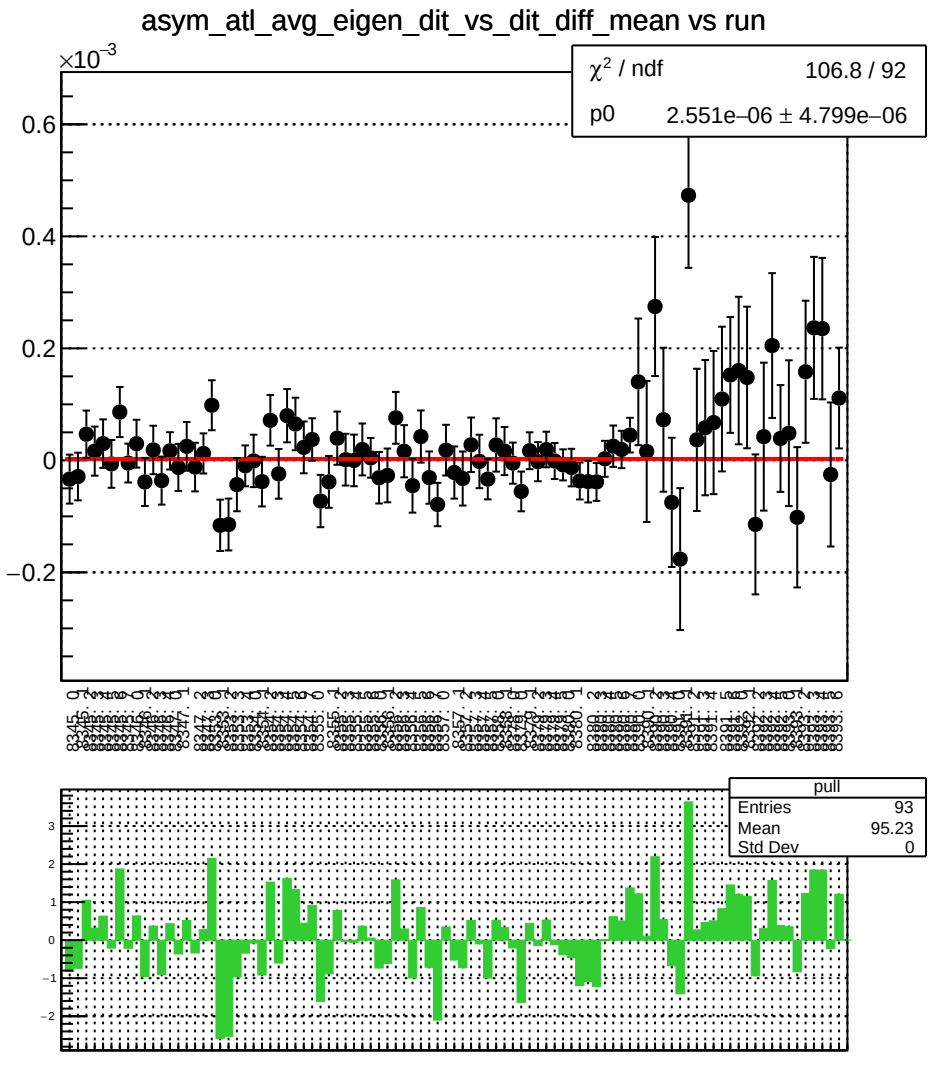

asym_atl_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 96.15 / 92
p0 0.2357 ± 0.1293
pull
Entries 93
Mean 119.3
Std Dev 0

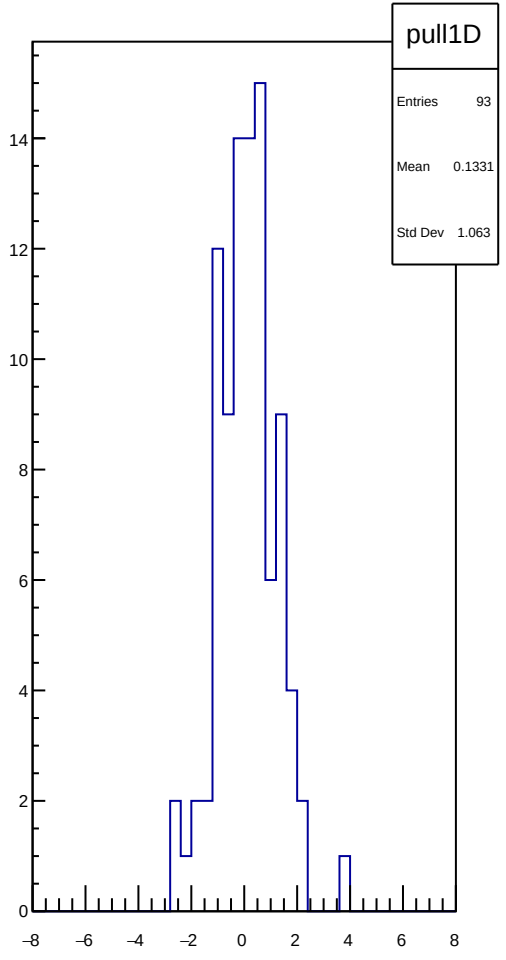

pull1D
Entries 93
Mean 0.07176
Std Dev 1.014

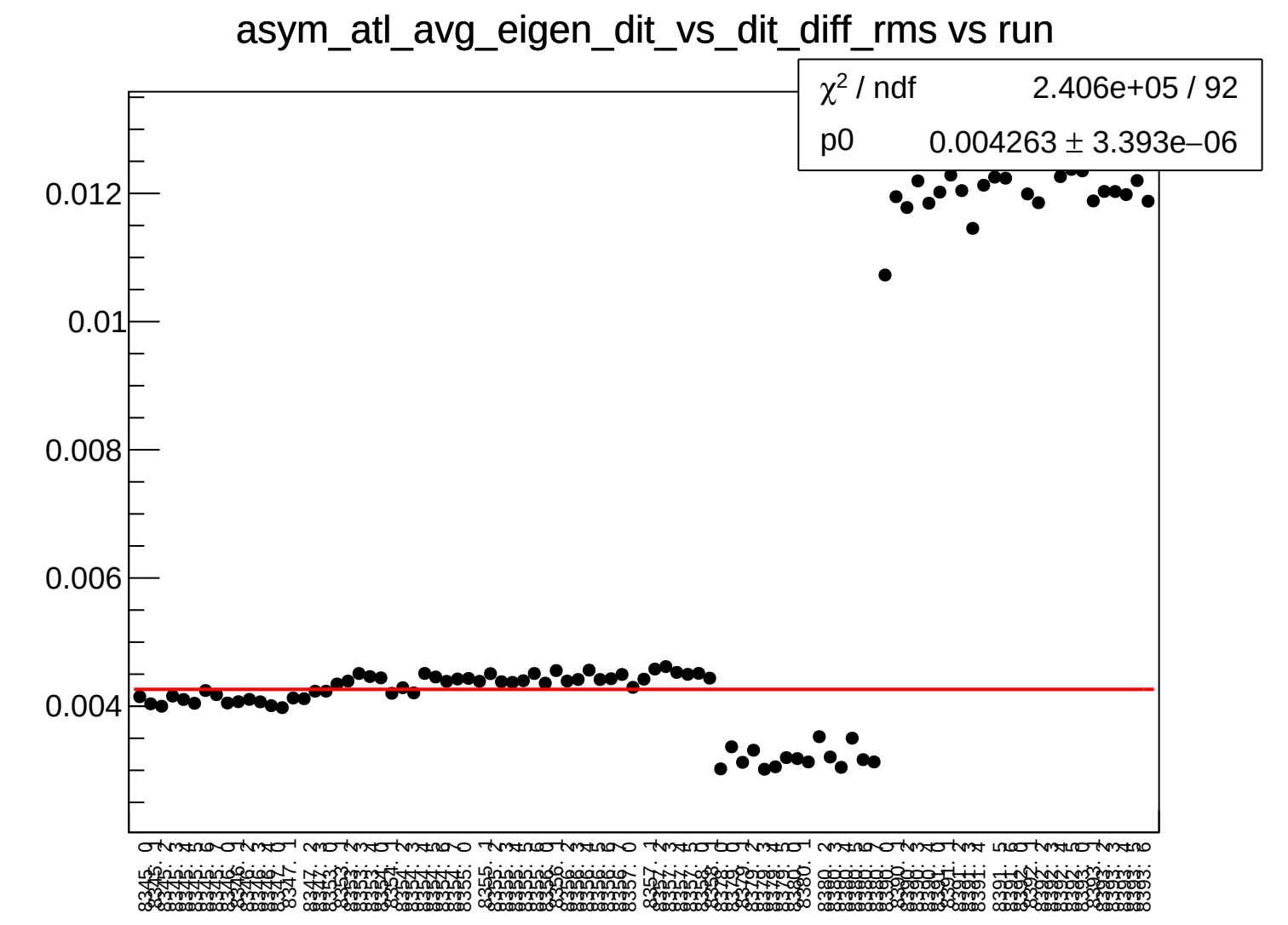

asym_atl_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.582e+05 / 92
p0 117.8 ± 0.09143
300
250
200
150
100
50

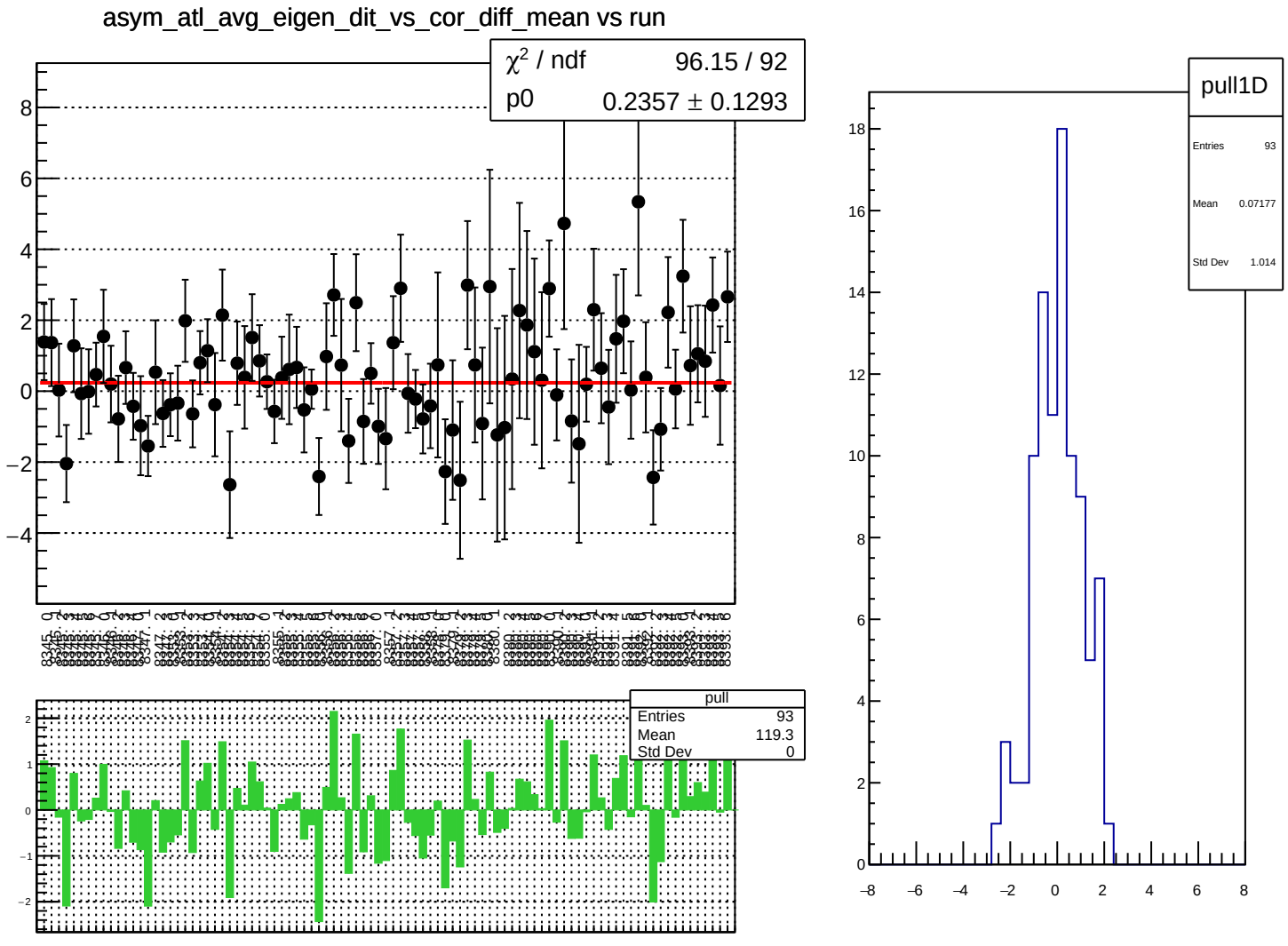

asym_atl_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.15 / 92
p0 0.2357 ± 0.1293
pull
Entries 93
Mean 119.3
Std Dev 0
pull1D
Entries 93
Mean 0.07176
Std Dev 1.014

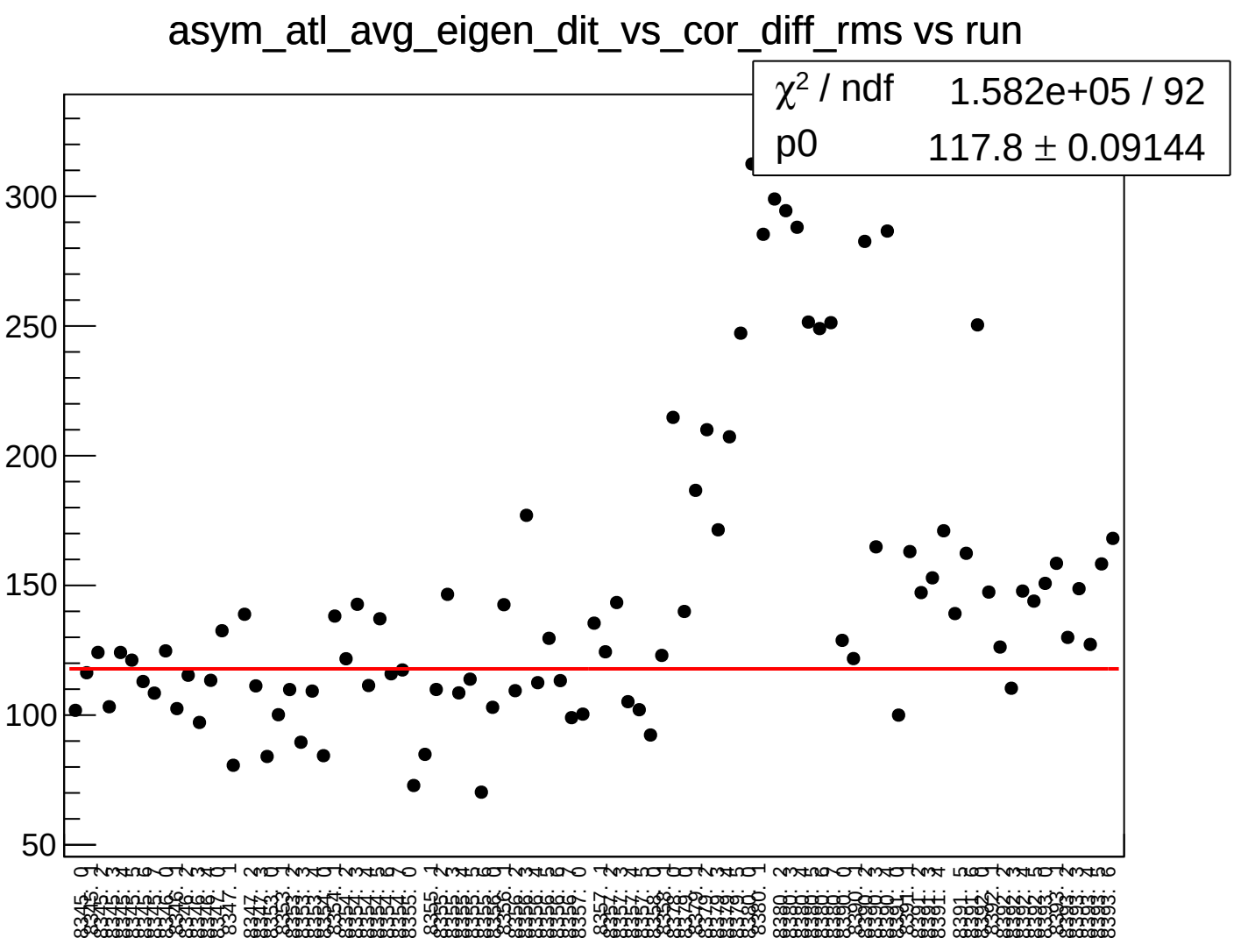

asym_atl_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.582e+05 / 92
p0 117.8 ± 0.09143
300
250
200
150
100
50

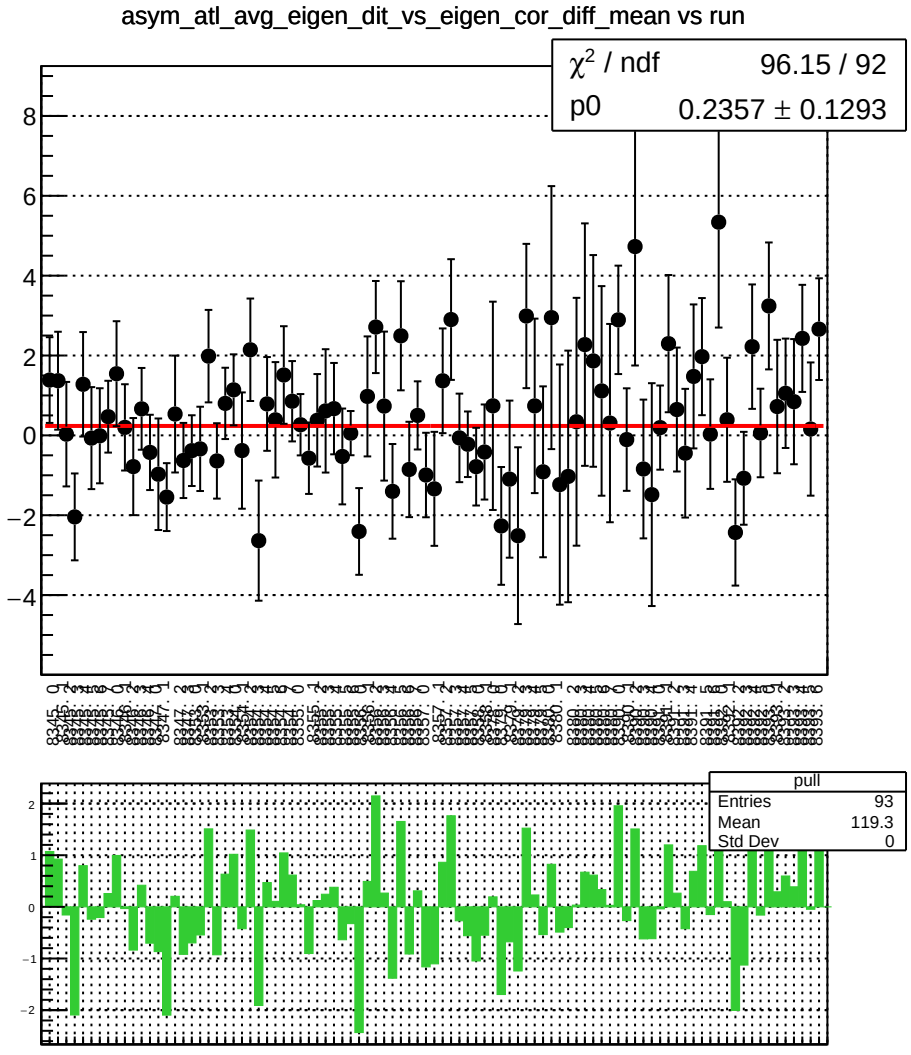

asym_atl_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 106.8 / 92
p0 2.551e−06 ± 4.799e−06
0.6
0.4
0.2
0
−0.2
pull
Entries 93
Mean 95.23
Std Dev 0
3
2
1
0
−1
−2

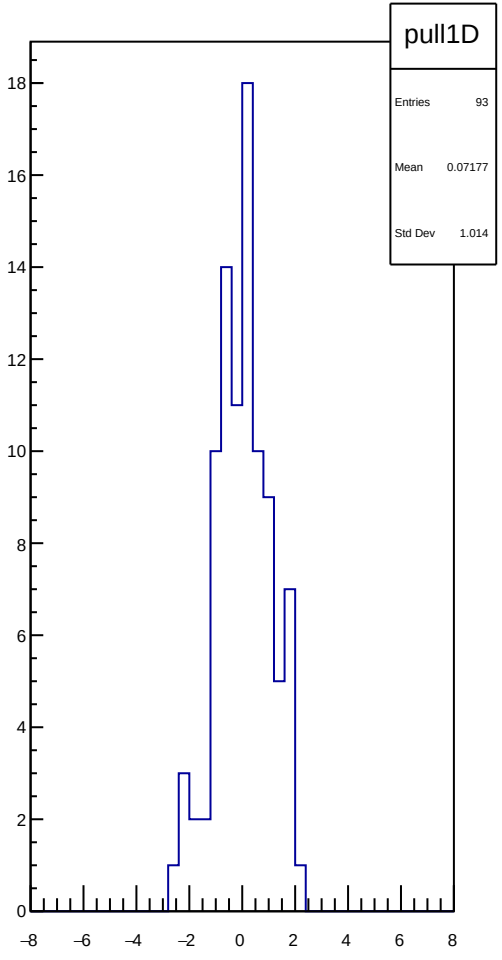

pull1D
Entries 93
Mean 0.1331
Std Dev 1.063
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

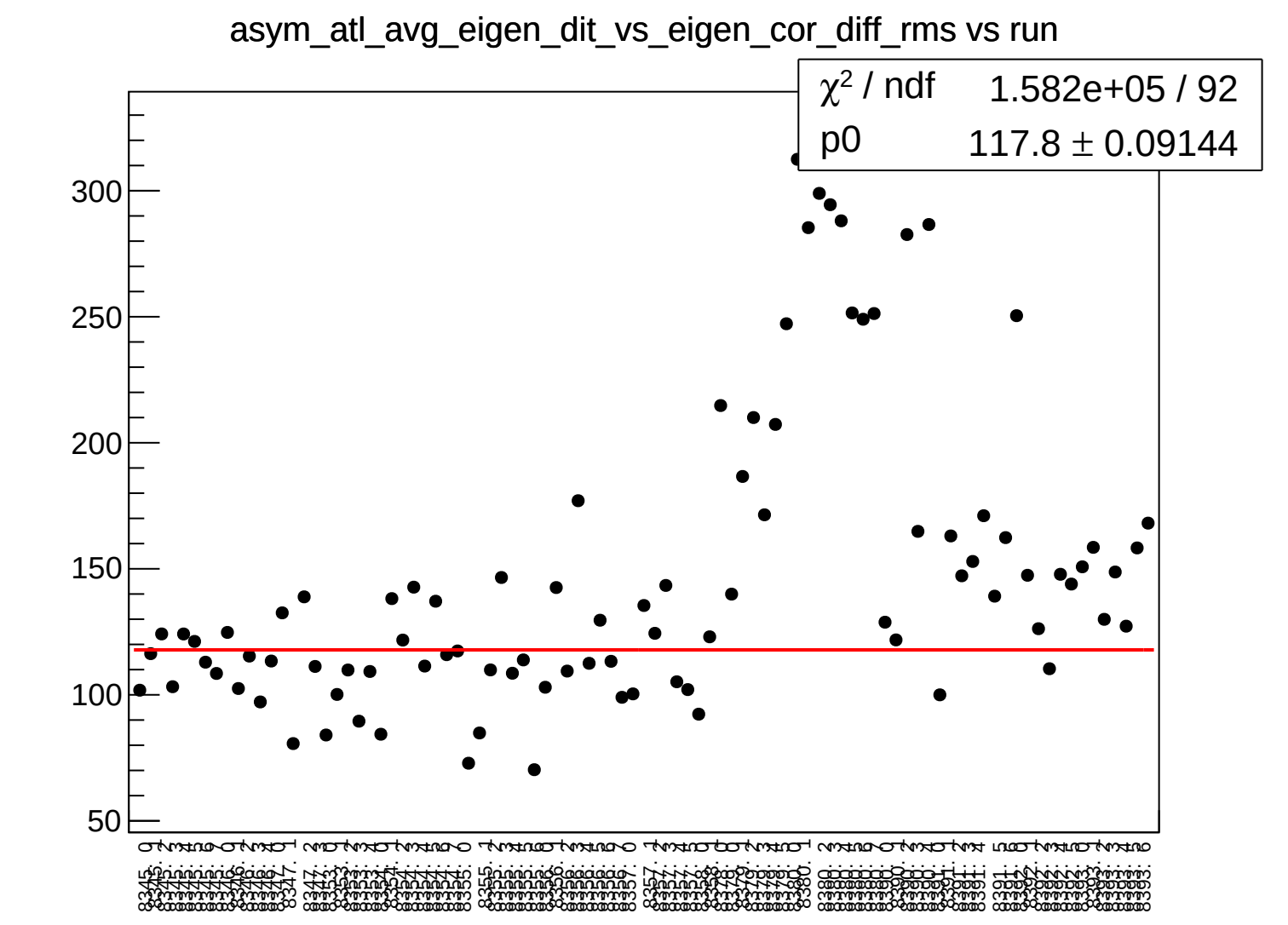

asym_atl_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.406e+05 / 92
p0 0.004263 ± 3.393e−06
0.012
0.01
0.008
0.006
0.004

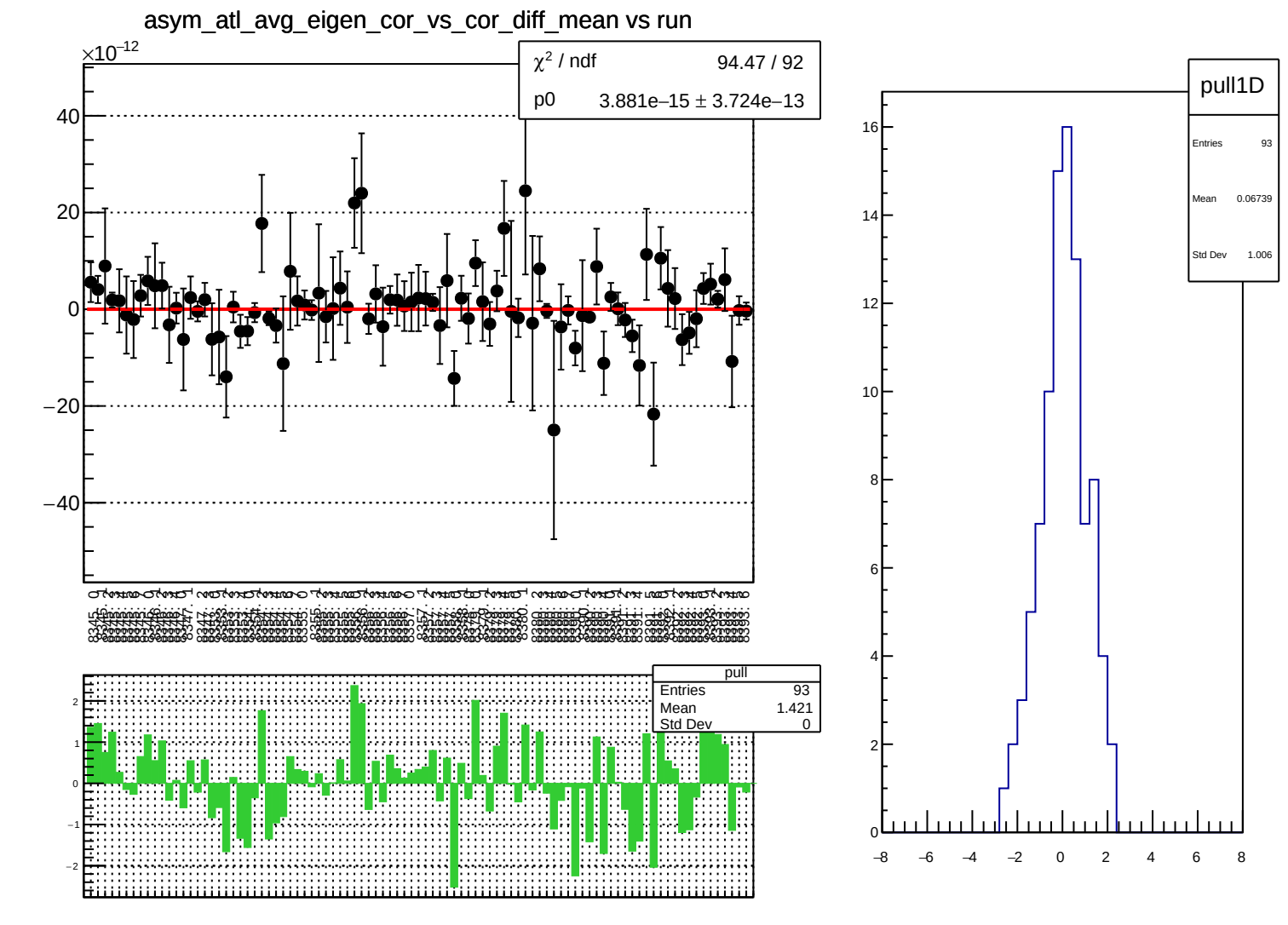

asym_atl_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 96.15 / 92
p0 0.2357 ± 0.1293
pull
Entries 93
Mean 119.3
Std Dev 0
pull1D
Entries 93
Mean 0.07177
Std Dev 1.014

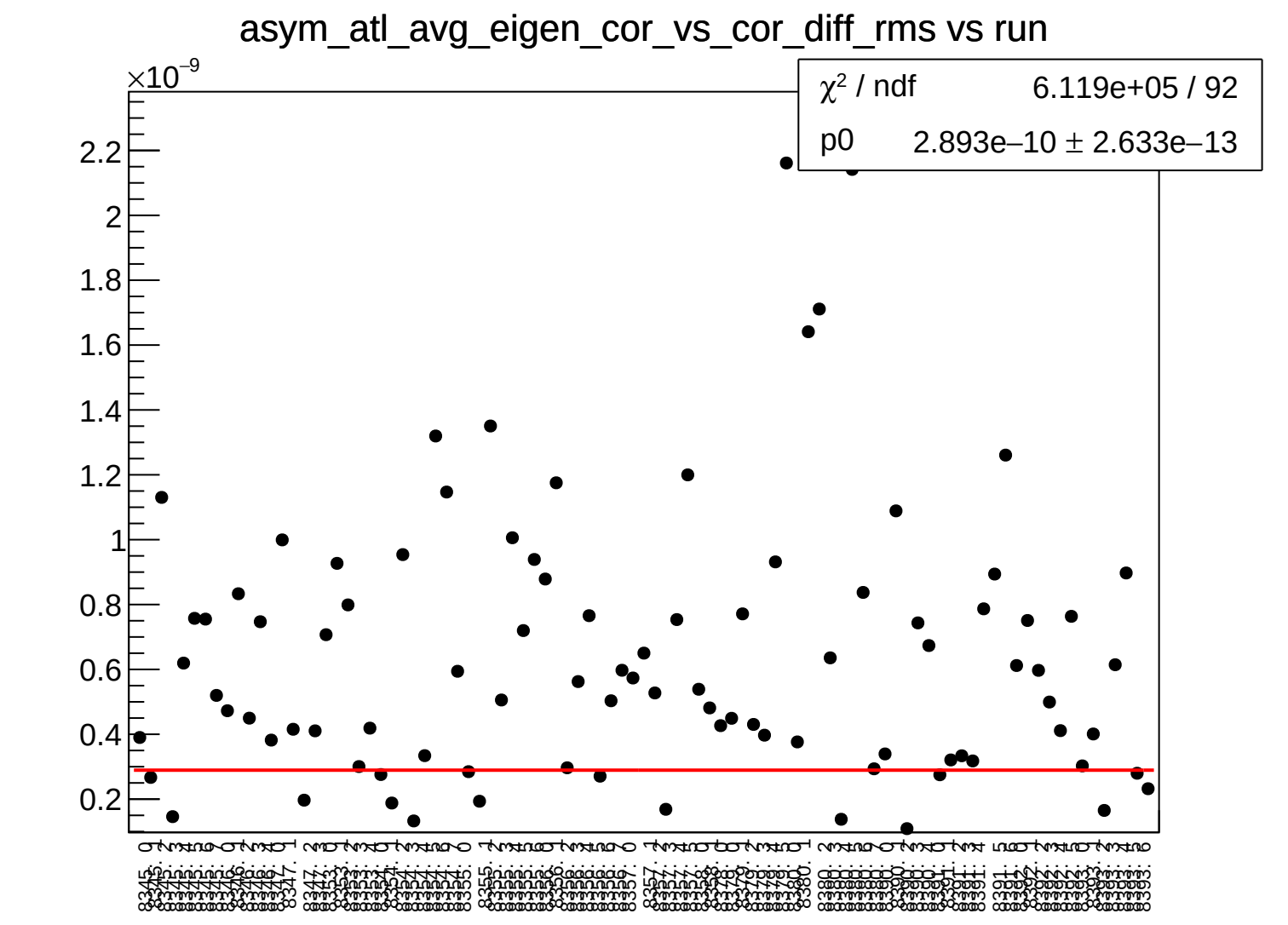

asym_atl_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.582e+05 / 92
p0 117.8 ± 0.09144
300
250
200
150
100
50

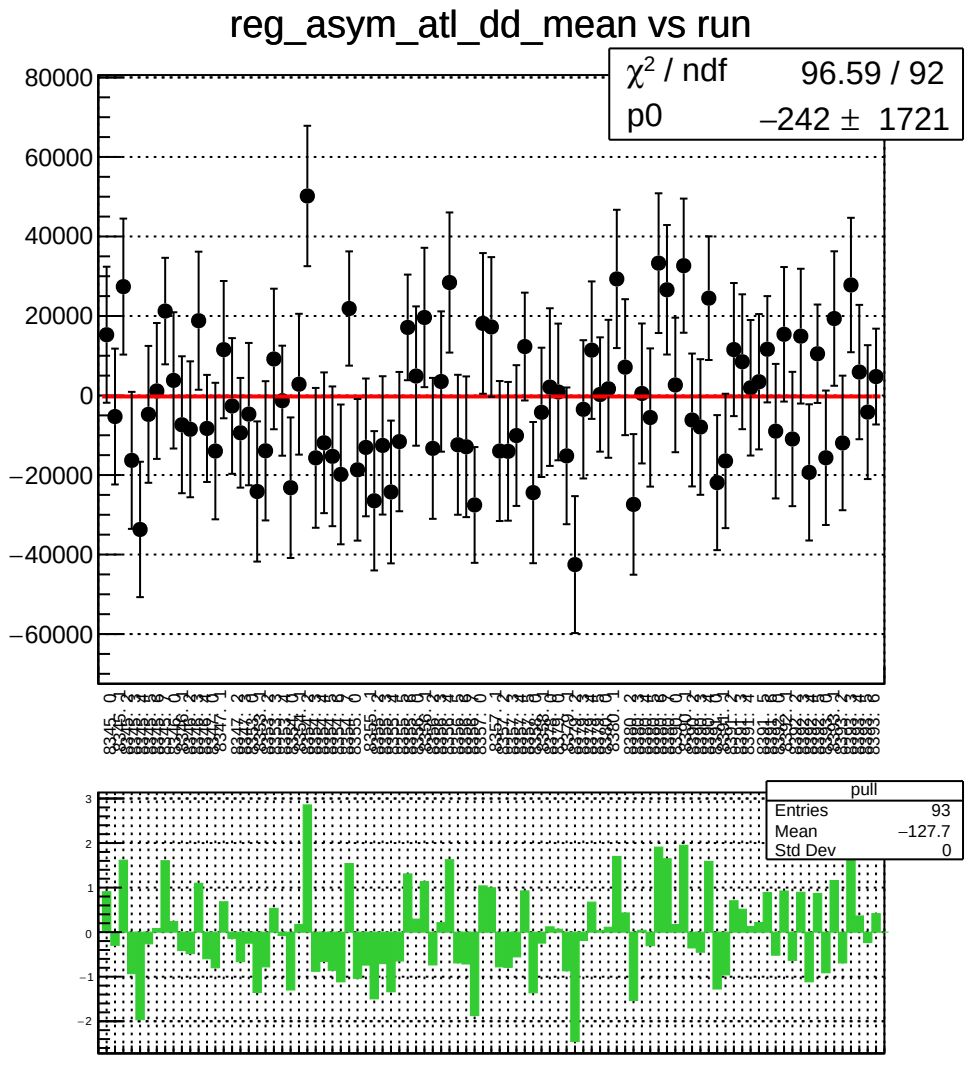

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.15 / 92
p0 0.2357 ± 0.1293
pull
Entries 93
Mean 119.3
Std Dev 0

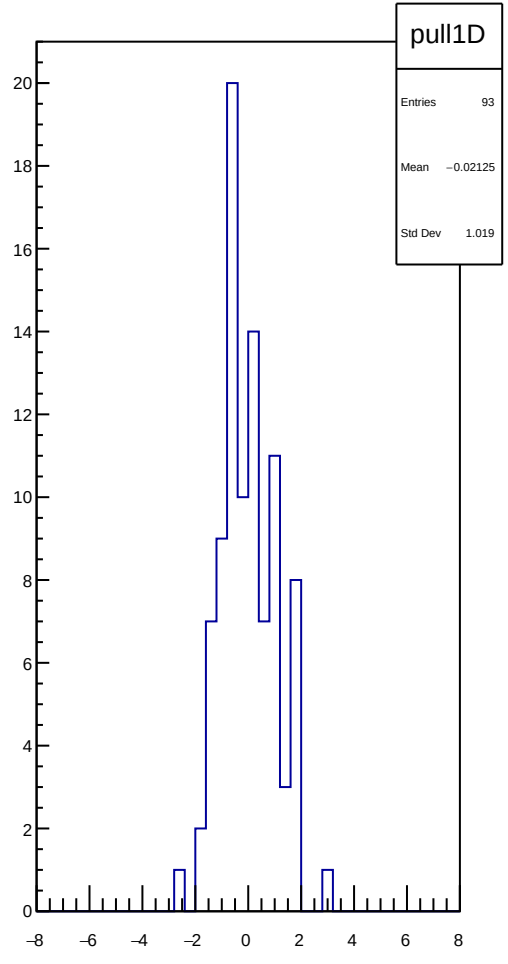

pull1D
Entries 93
Mean 0.07177
Std Dev 1.014

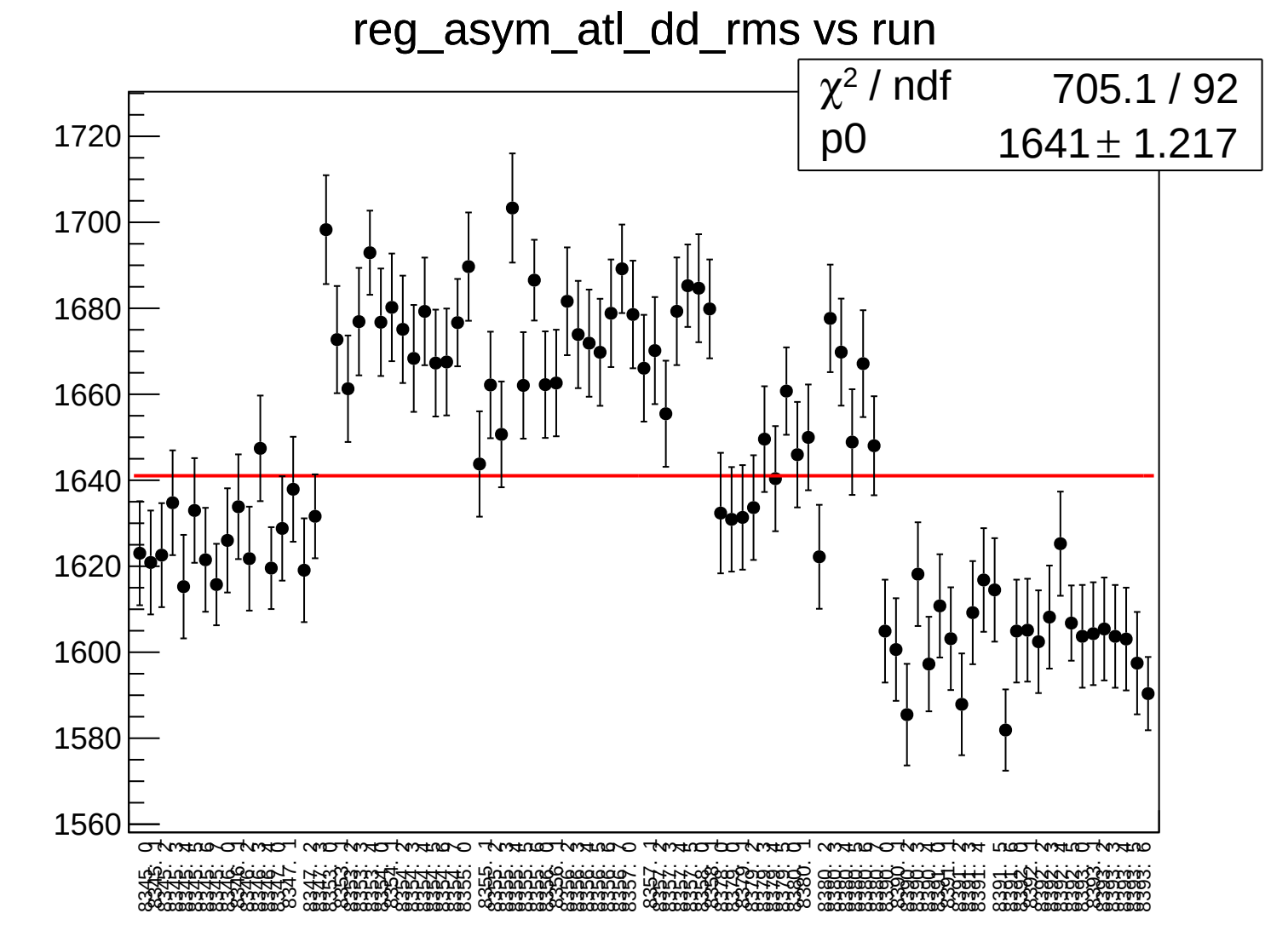

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.582e+05 / 92
p0 117.8 ± 0.09144
300
250
200
150
100
50

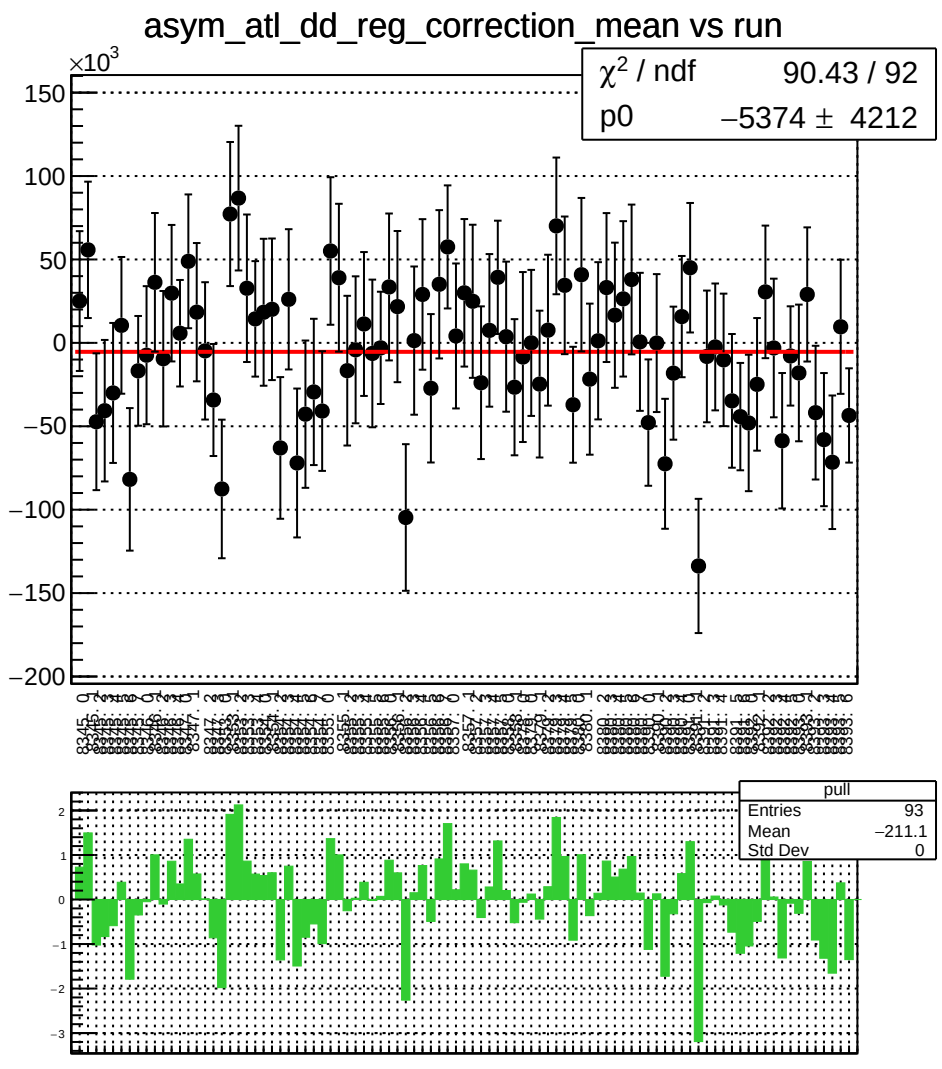

asym_atl_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.47 / 92
p0 3.881e−15 ± 3.724e−13
40
20
0
−20
−40
pull
Entries 93
Mean 1.421
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.06739
Std Dev 1.006
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

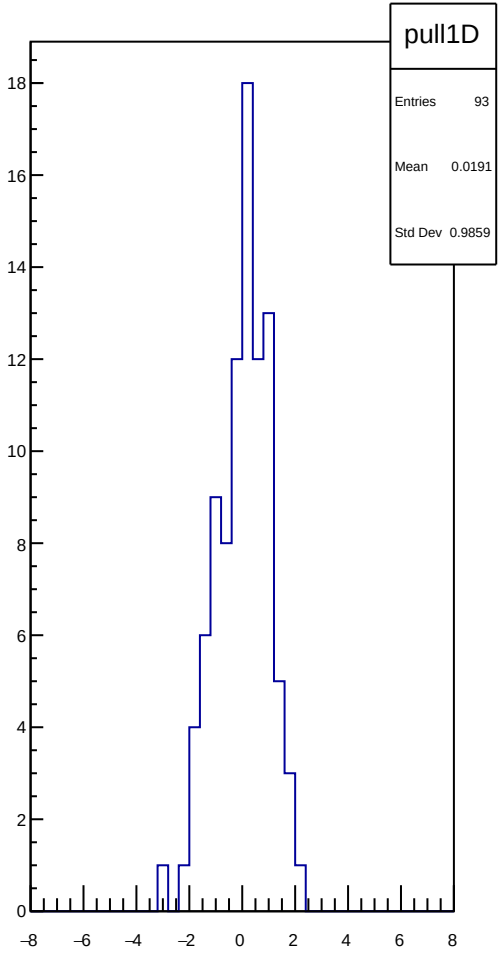

asym_atl_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.119e+05 / 92
p0 2.893e−10 ± 2.633e−13
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

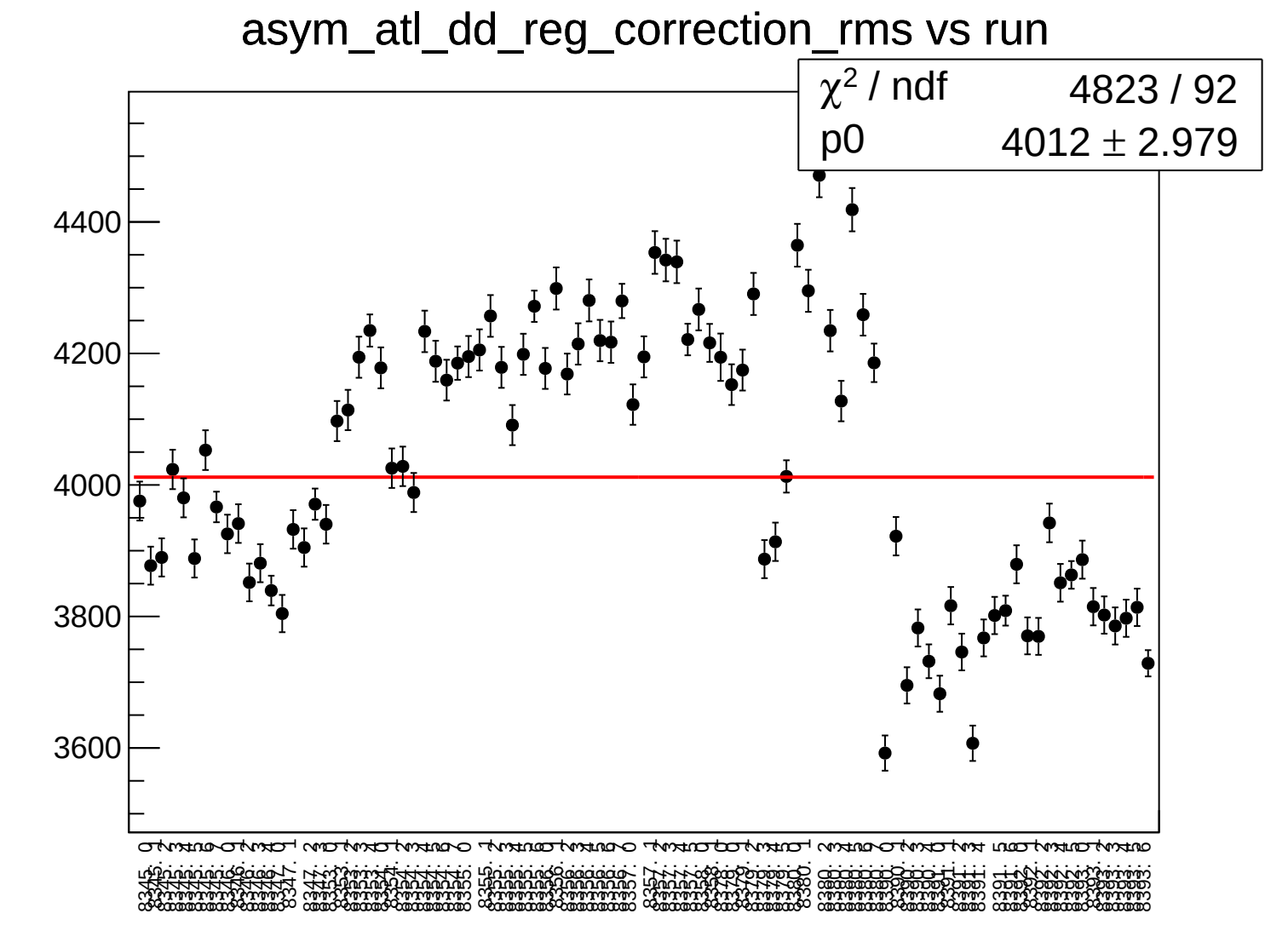

reg_asym_atl_dd_mean vs run
χ² / ndf 96.59 / 92
p0 −242 ± 1721
pull
Entries 93
Mean −127.7
Std Dev 0

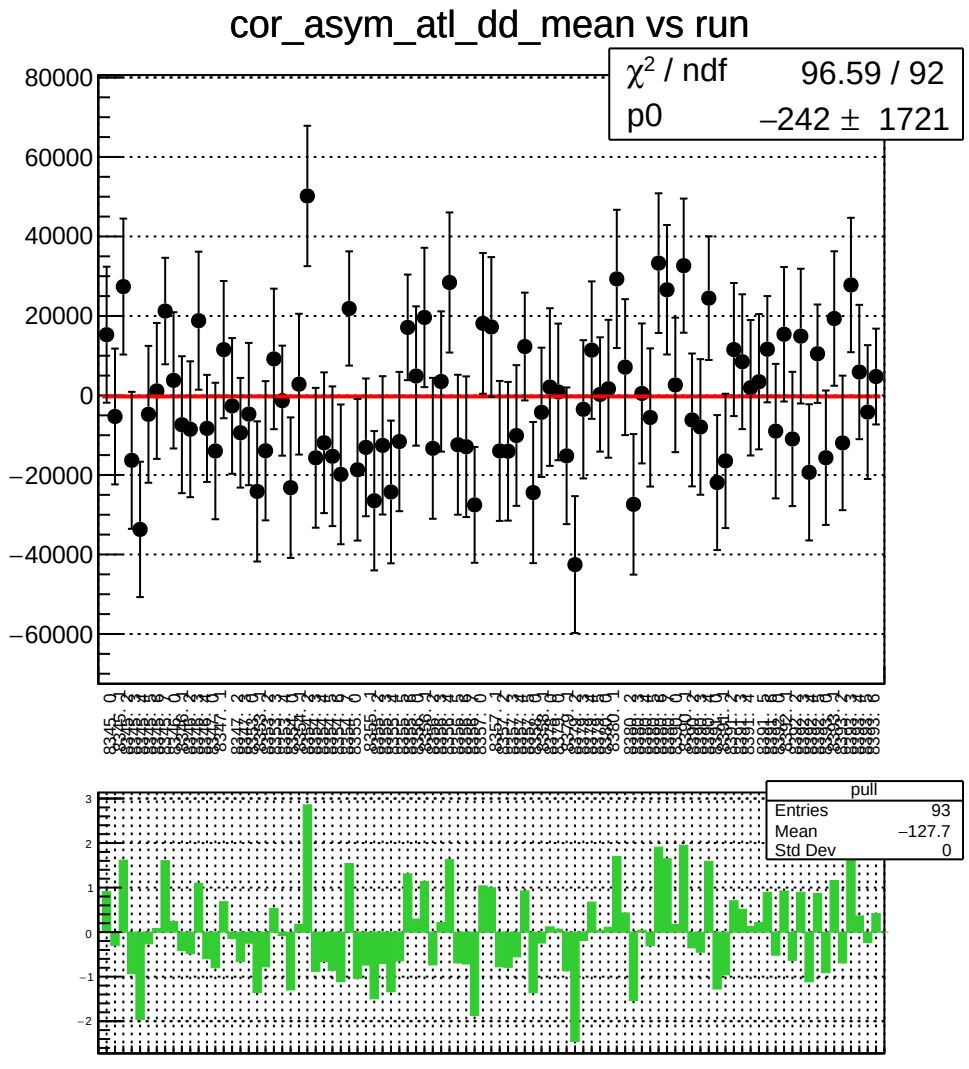

pull1D
Entries 93
Mean −0.02125
Std Dev 1.019

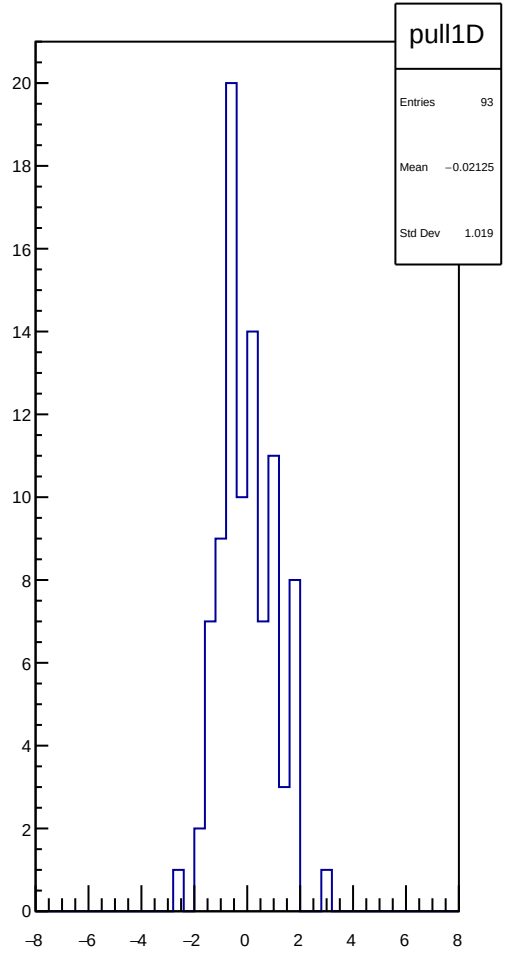

reg_asym_atl_dd_rms vs run
χ² / ndf 705.1 / 92
p0 1641 ± 1.217
1720
1700
1680
1660
1640
1620
1600
1580
1560

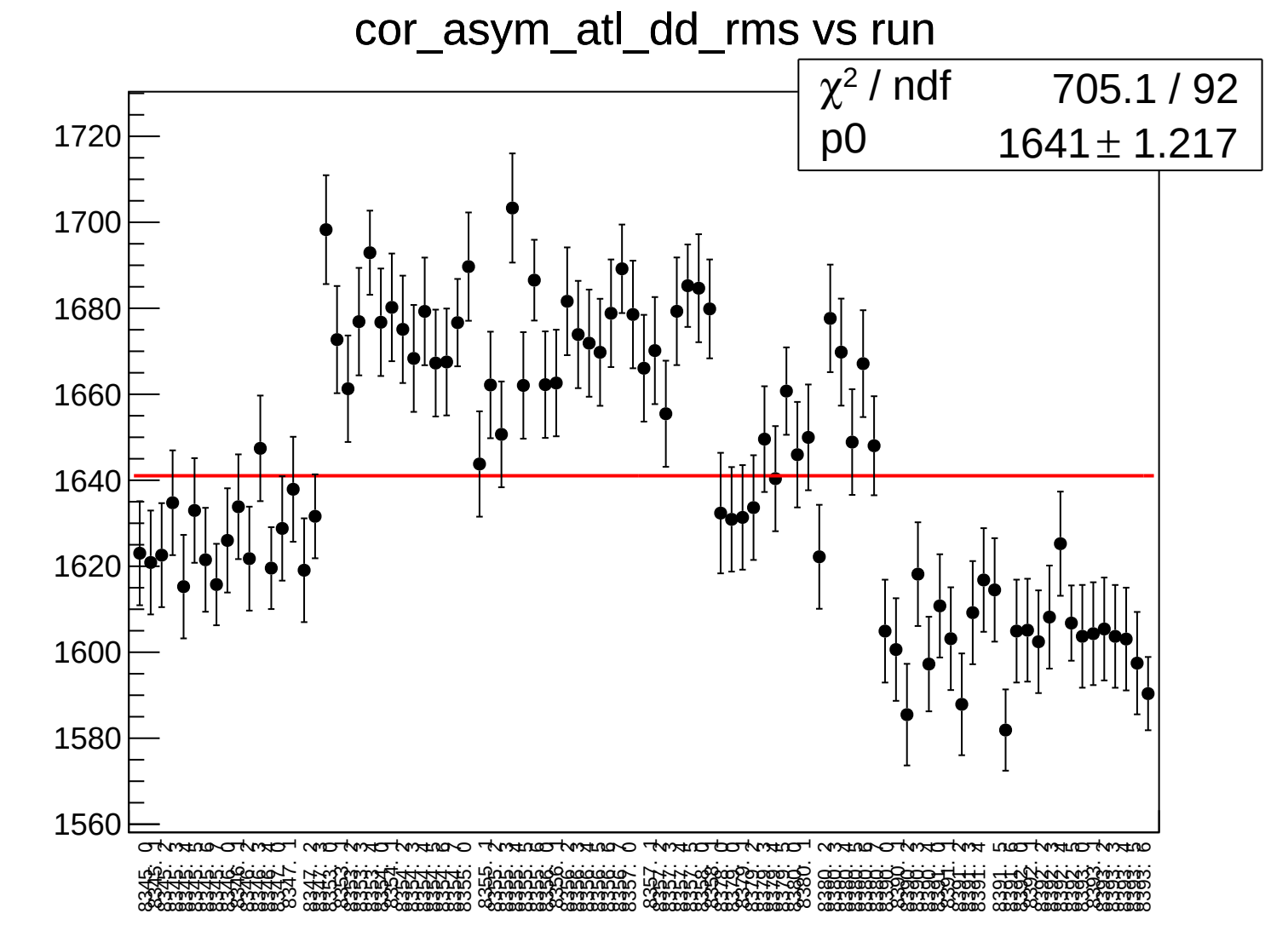

asym_atl_dd_reg_correction_mean vs run
×10^3
χ² / ndf 90.43 / 92
p0 −5374 ± 4212
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean −211.1
Std Dev 0
2
1
0
−1
−2
−3

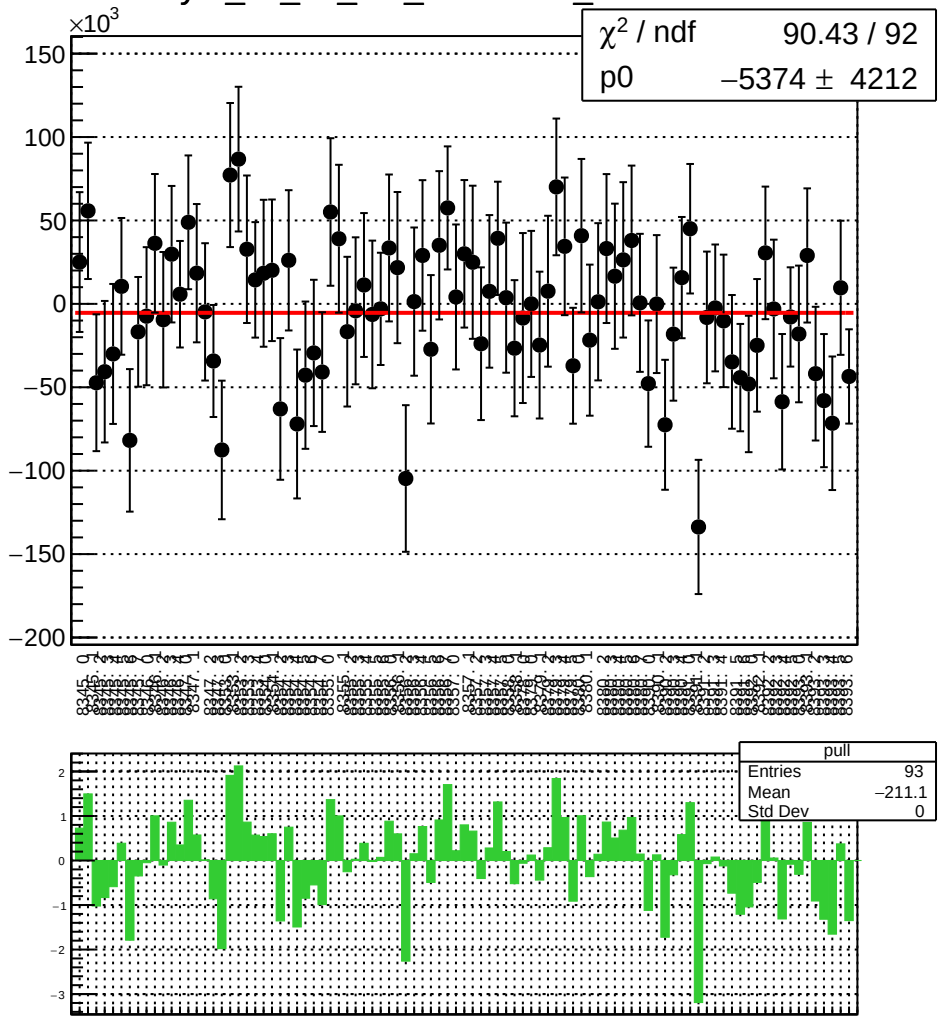

pull1D
Entries 93
Mean 0.0191
Std Dev 0.9859
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

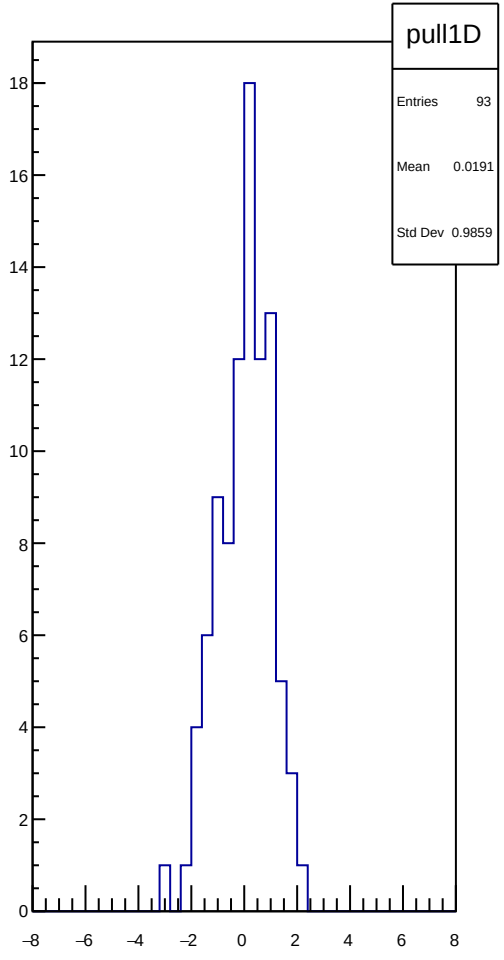

asym_atl_dd_reg_correction_rms vs run
χ² / ndf 4823 / 92
p0 4012 ± 2.979
4400
4200
4000
3800
3600

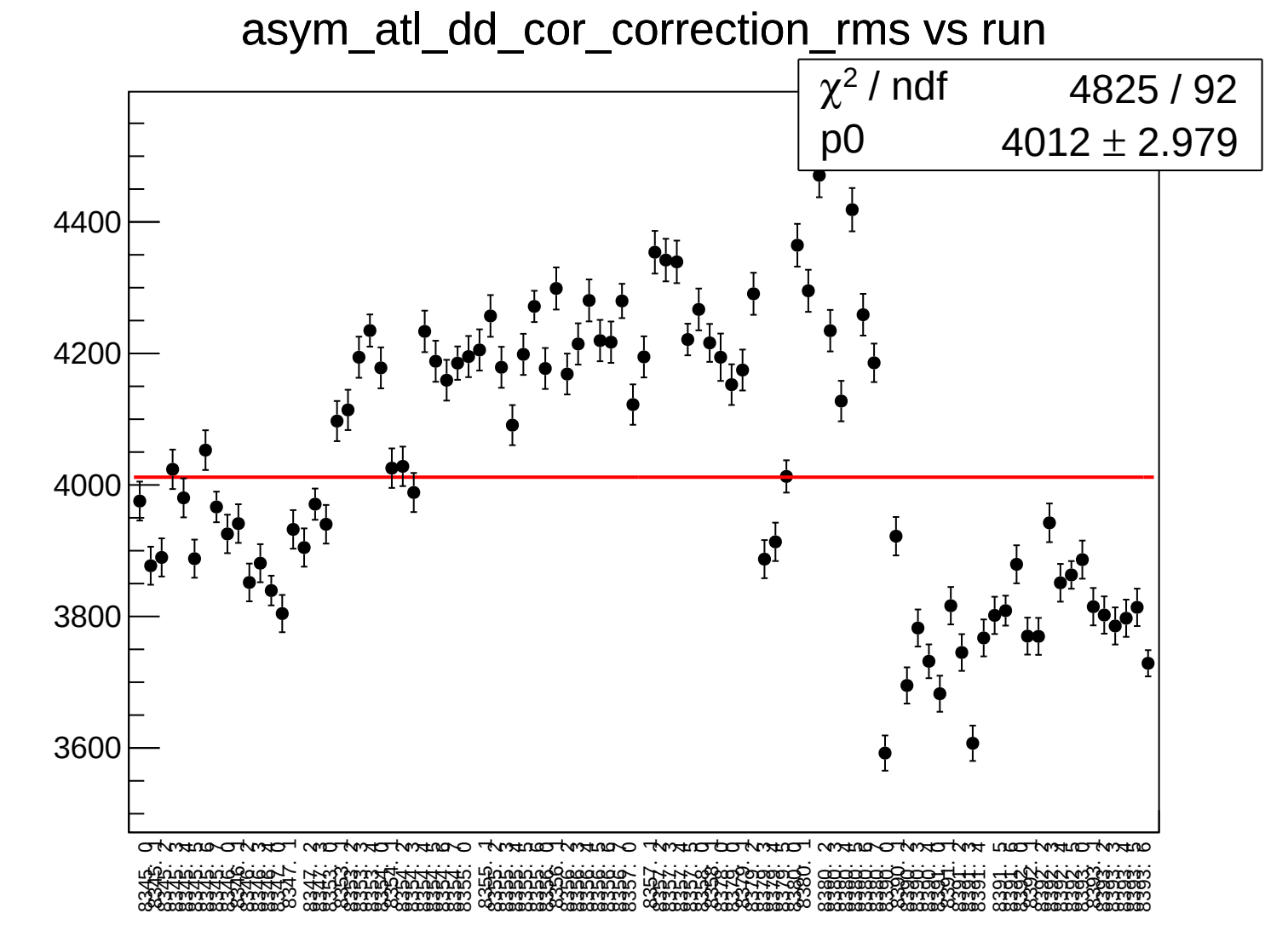

cor_asym_atl_dd_mean vs run
χ² / ndf 96.59 / 92
p0 −242 ± 1721
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −127.7
Std Dev 0
3
2
1
0
−1
−2

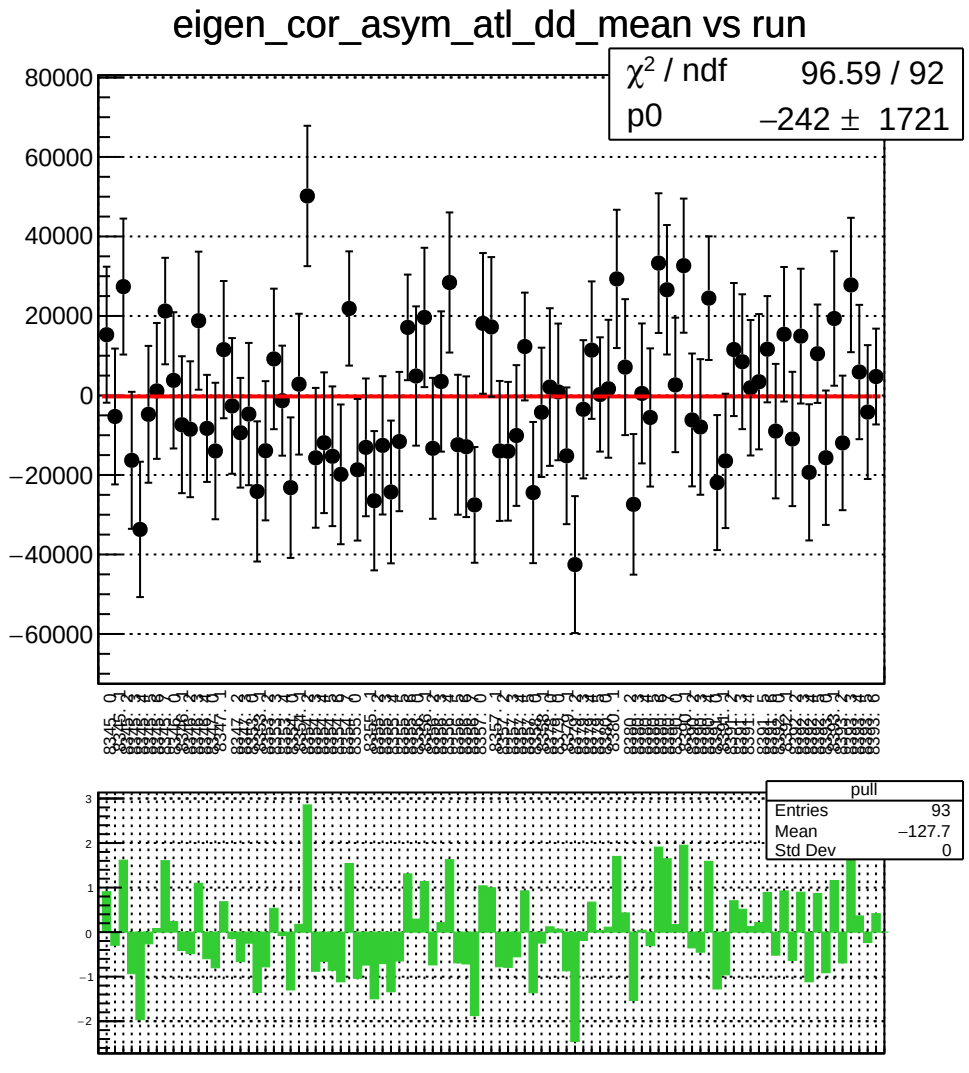

pull1D
Entries 93
Mean −0.02125
Std Dev 1.019
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

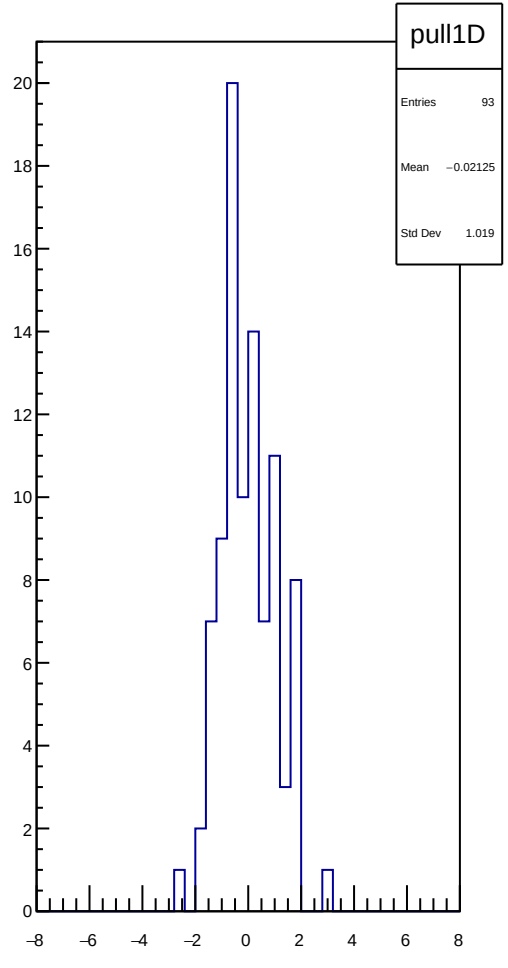

cor_asym_atl_dd_rms vs run
χ² / ndf 705.1 / 92
p0 1641 ± 1.217
1720
1700
1680
1660
1640
1620
1600
1580
1560

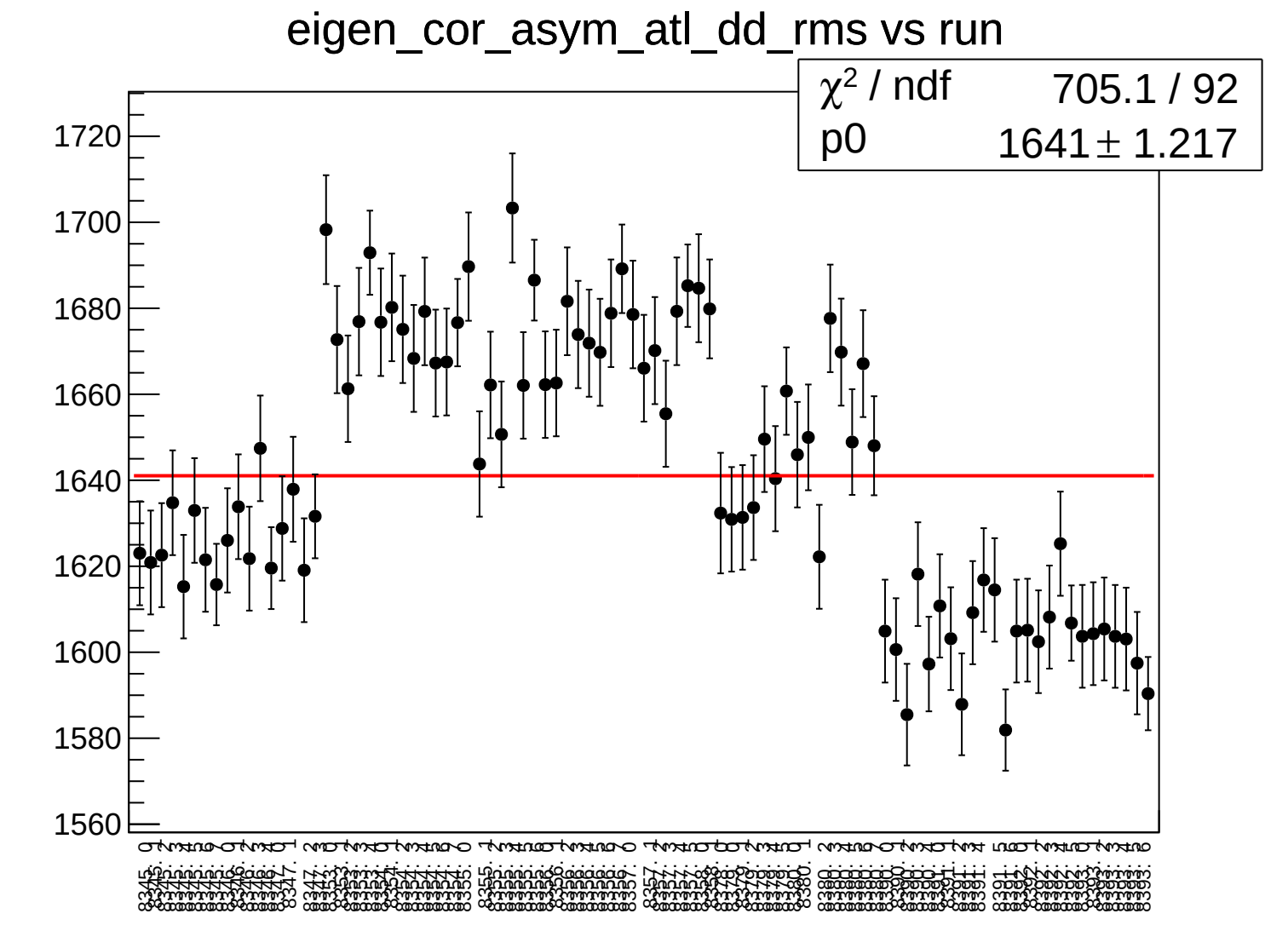

asym_atl_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 90.43 / 92
p0 −5374 ± 4212
pull
Entries 93
Mean −211.1
Std Dev 0

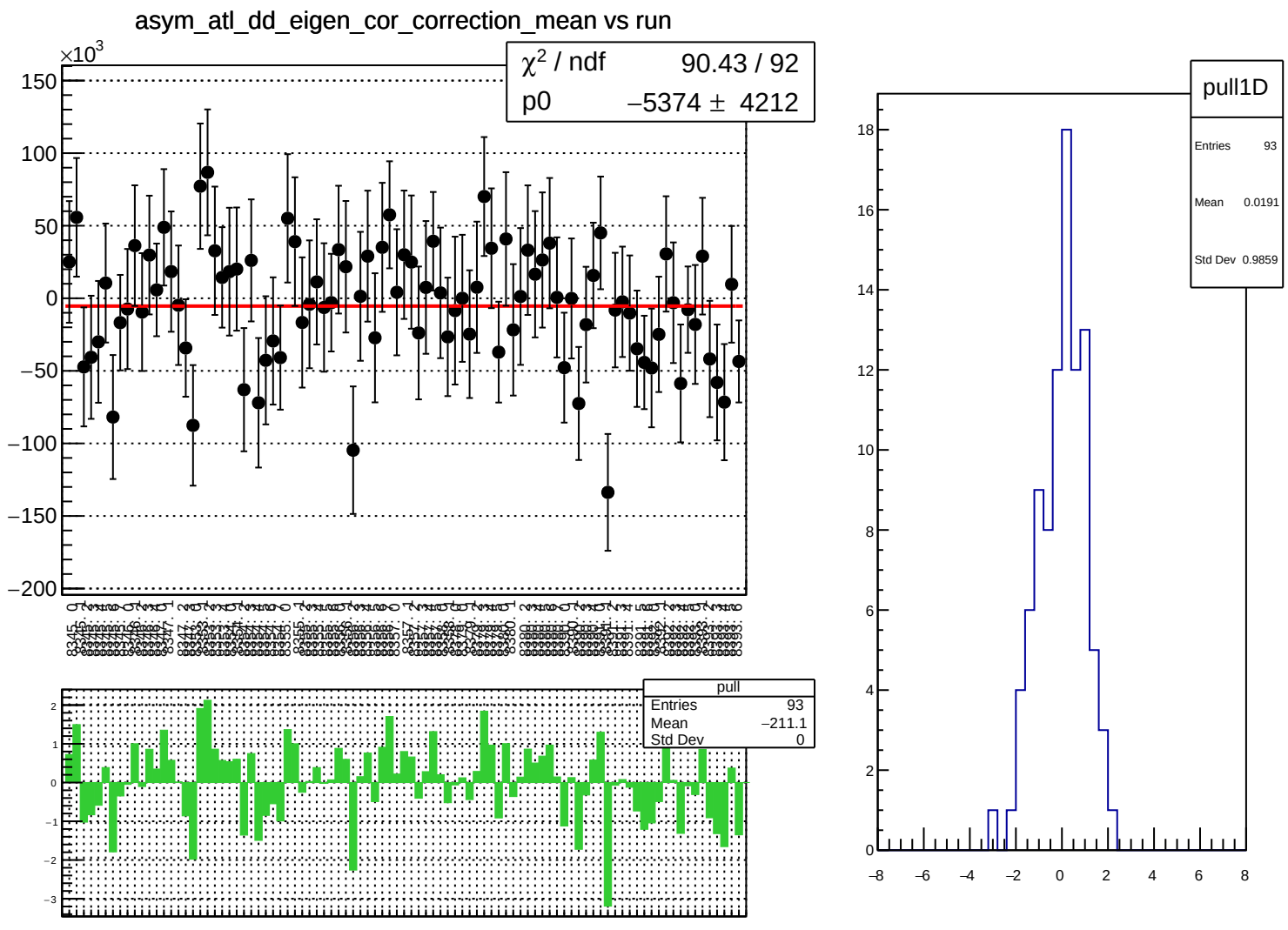

pull1D
Entries 93
Mean 0.0191
Std Dev 0.9859

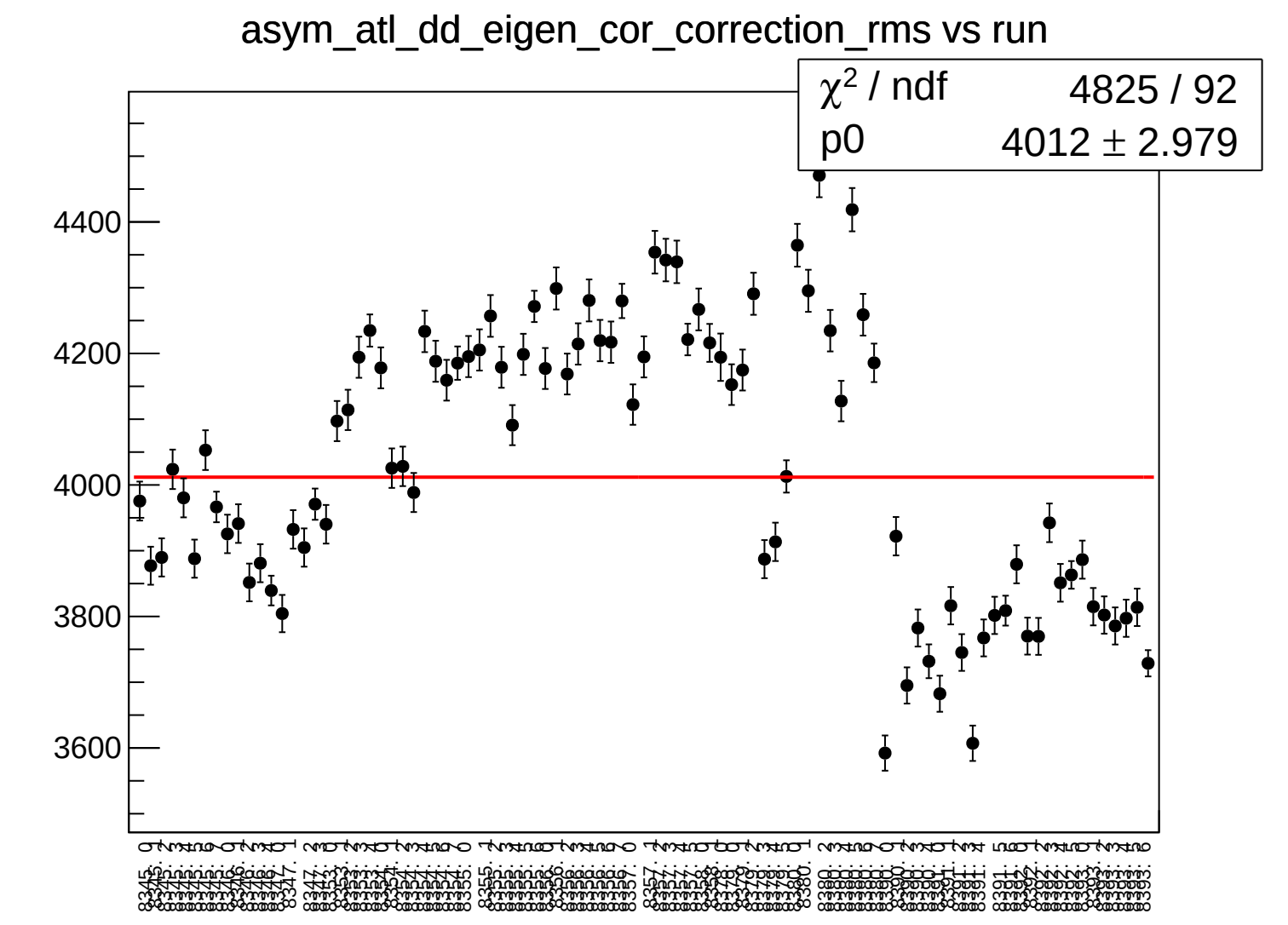

asym_atl_dd_cor_correction_rms vs run
χ^2 / ndf 4825 / 92
p0 4012 ± 2.979
4400
4200
4000
3800
3600

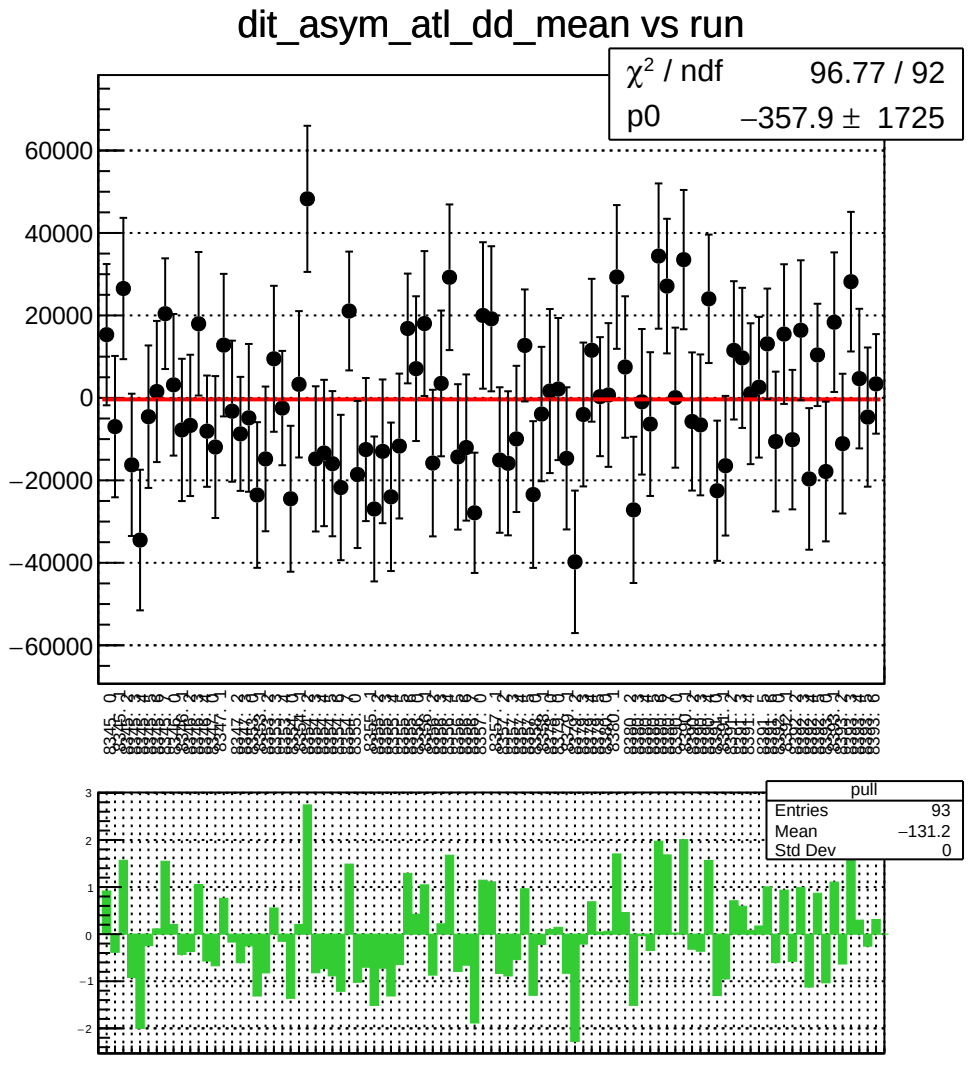

eigen_cor_asym_atl_dd_mean vs run
χ² / ndf 96.59 / 92
p0 −242 ± 1721
pull
Entries 93
Mean −127.7
Std Dev 0

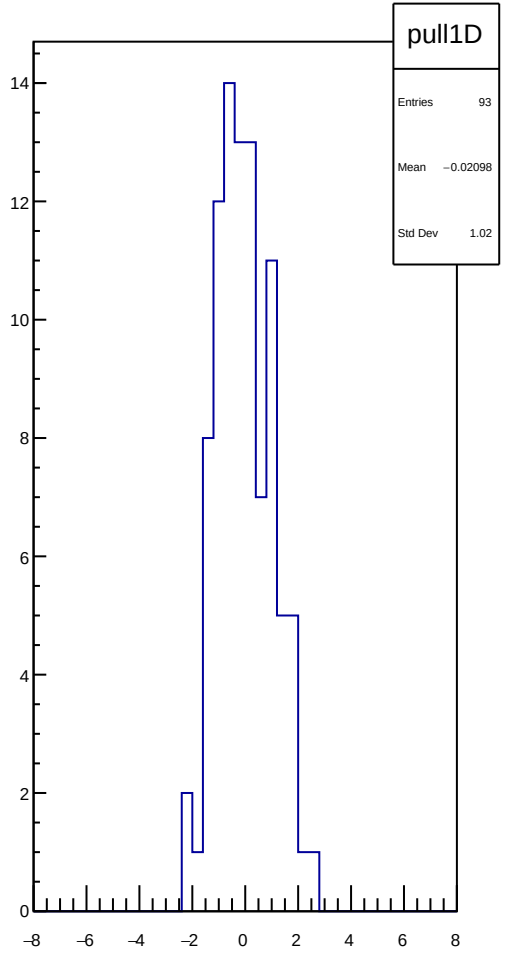

pull1D
Entries 93
Mean −0.02125
Std Dev 1.019

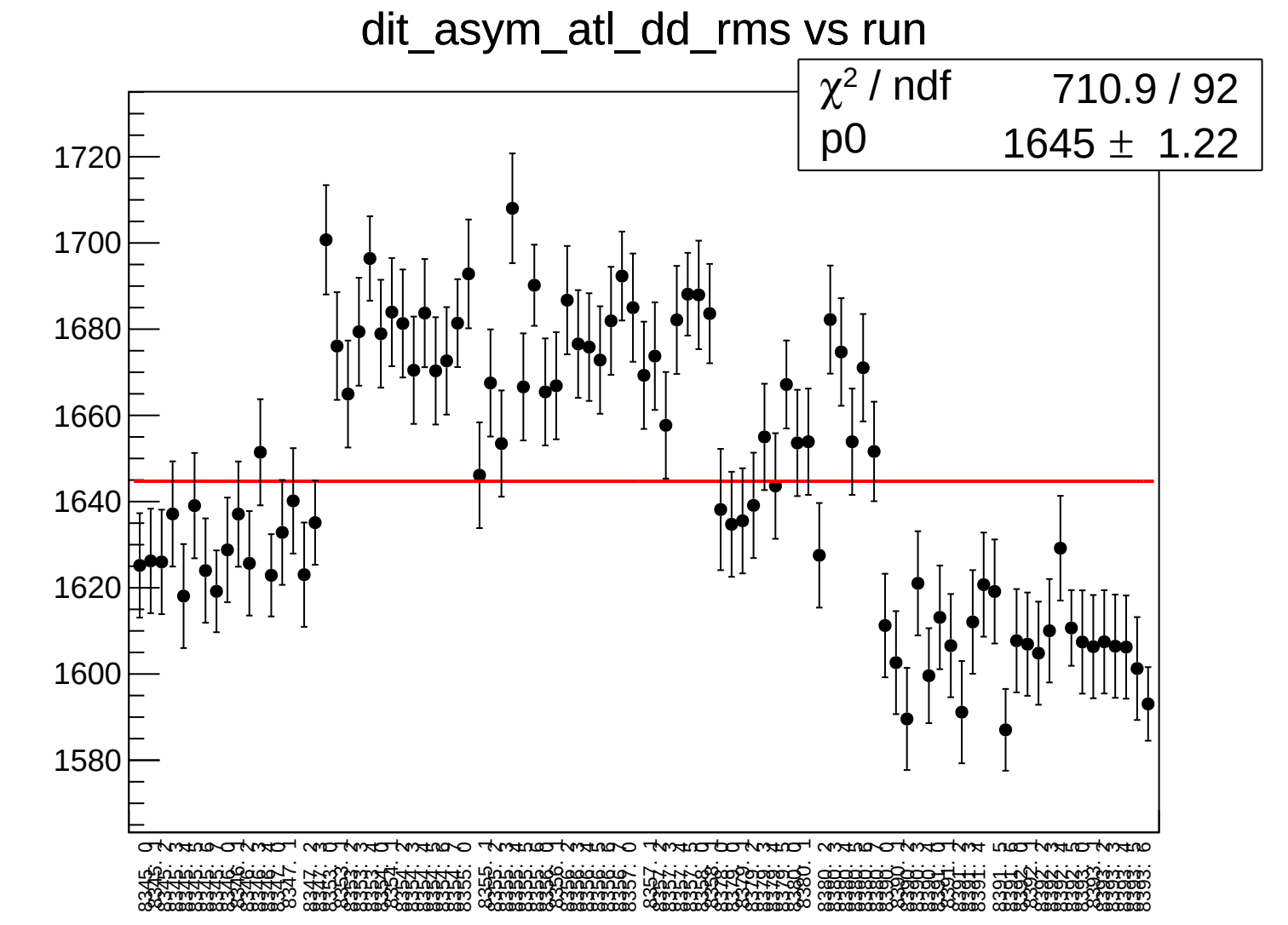

eigen_cor_asym_atl_dd_rms vs run
χ² / ndf 705.1 / 92
p0 1641 ± 1.217
1720
1700
1680
1660
1640
1620
1600
1580
1560

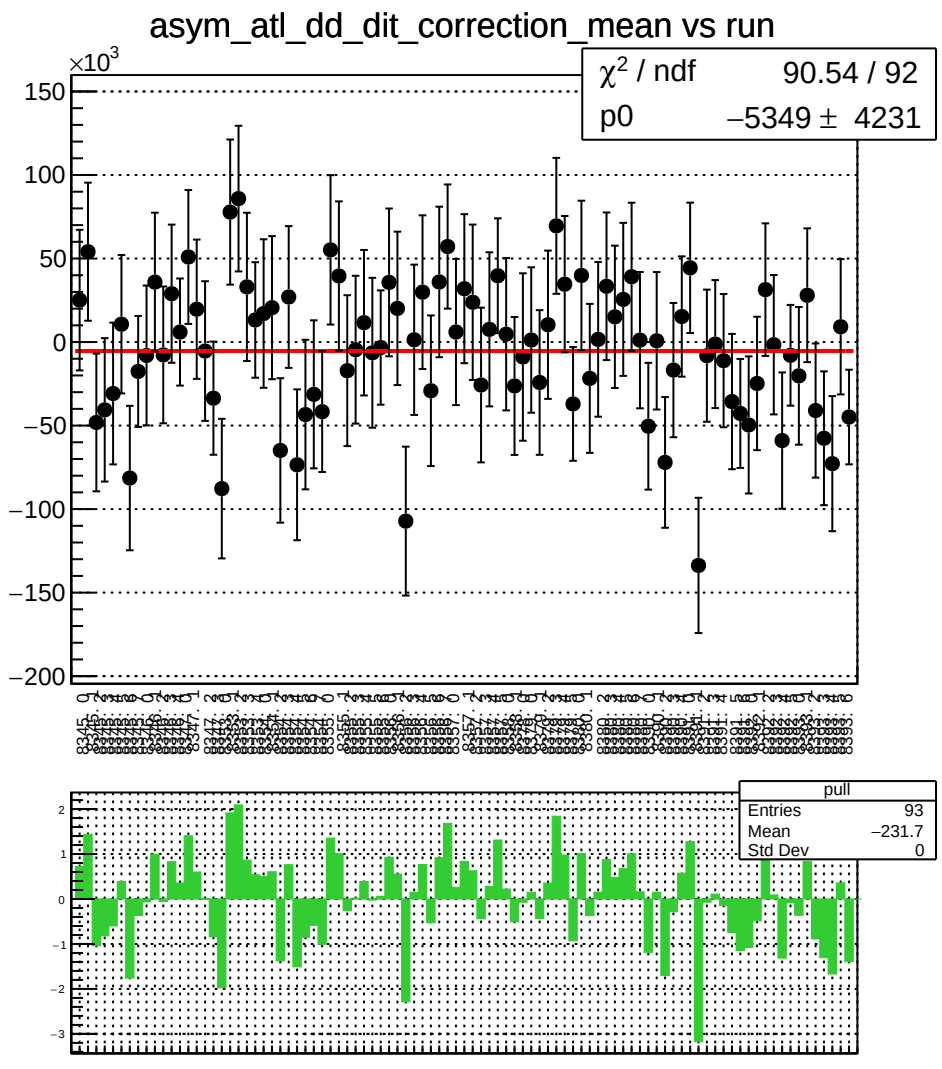

asym_atl_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 90.43 / 92
p0 −5374 ± 4212
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean −211.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.0191
Std Dev 0.9859
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

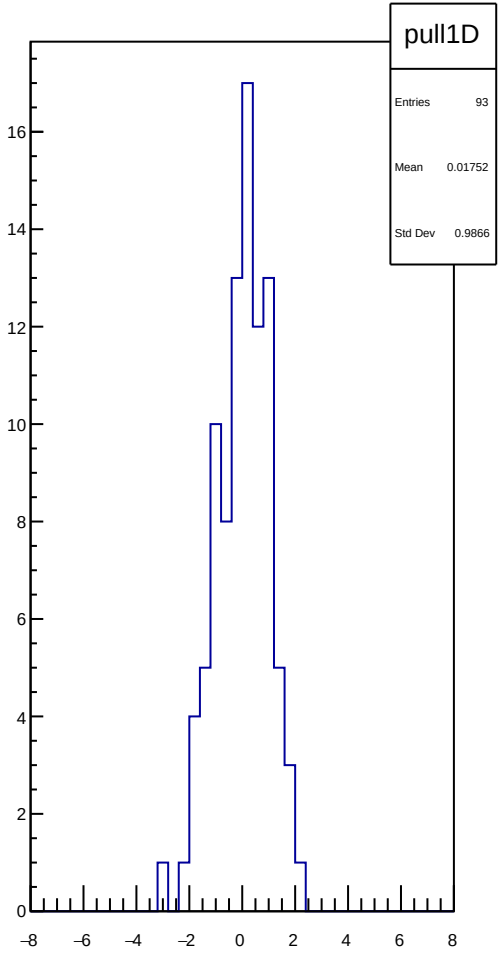

asym_atl_dd_eigen_cor_correction_rms vs run
χ² / ndf 4825 / 92
p0 4012 ± 2.979
4400
4200
4000
3800
3600

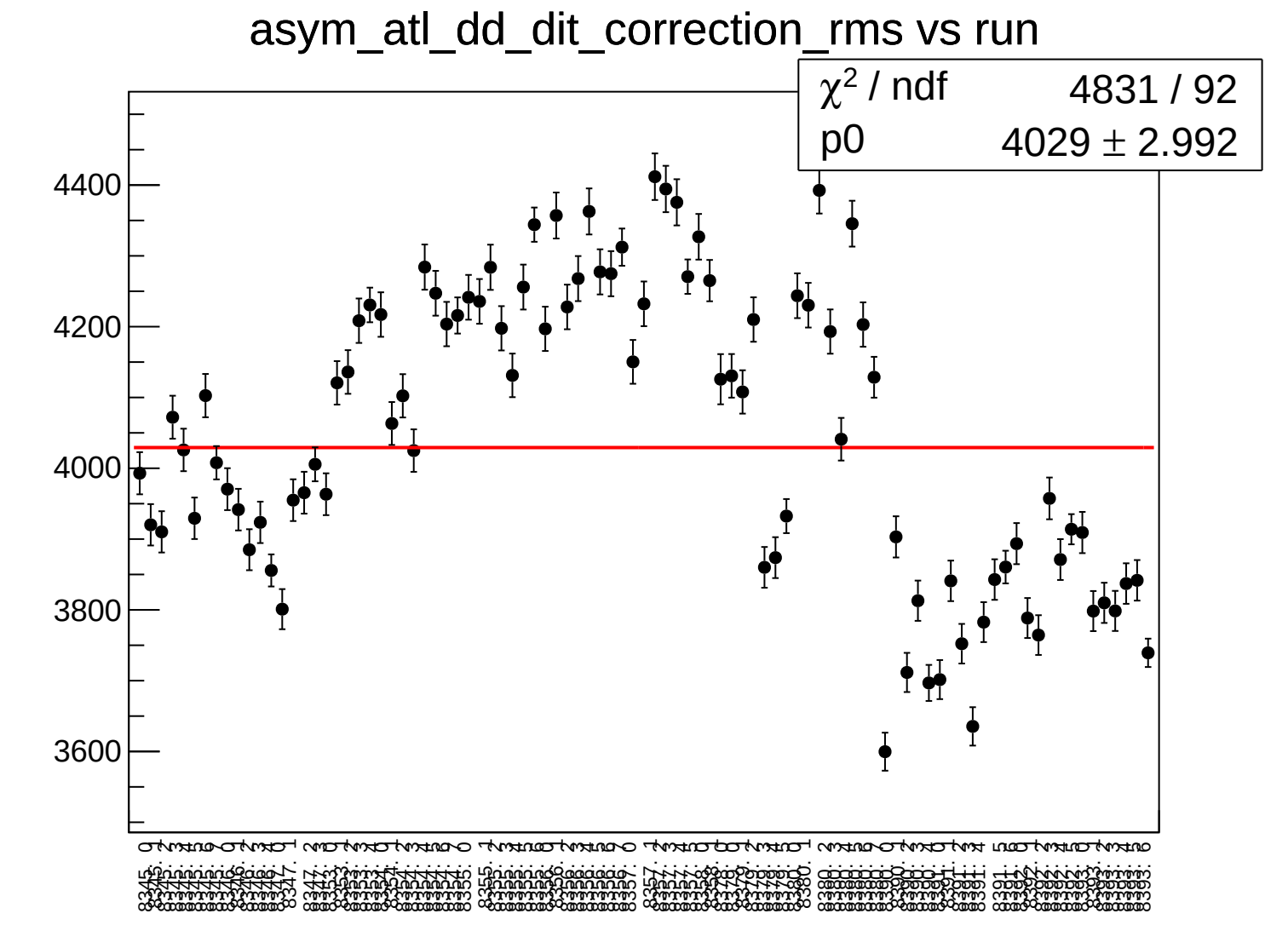

dit_asym_atl_dd_mean vs run
χ² / ndf 96.77 / 92
p0 −357.9 ± 1725
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −131.2
Std Dev 0
3
2
1
0
−1
−2

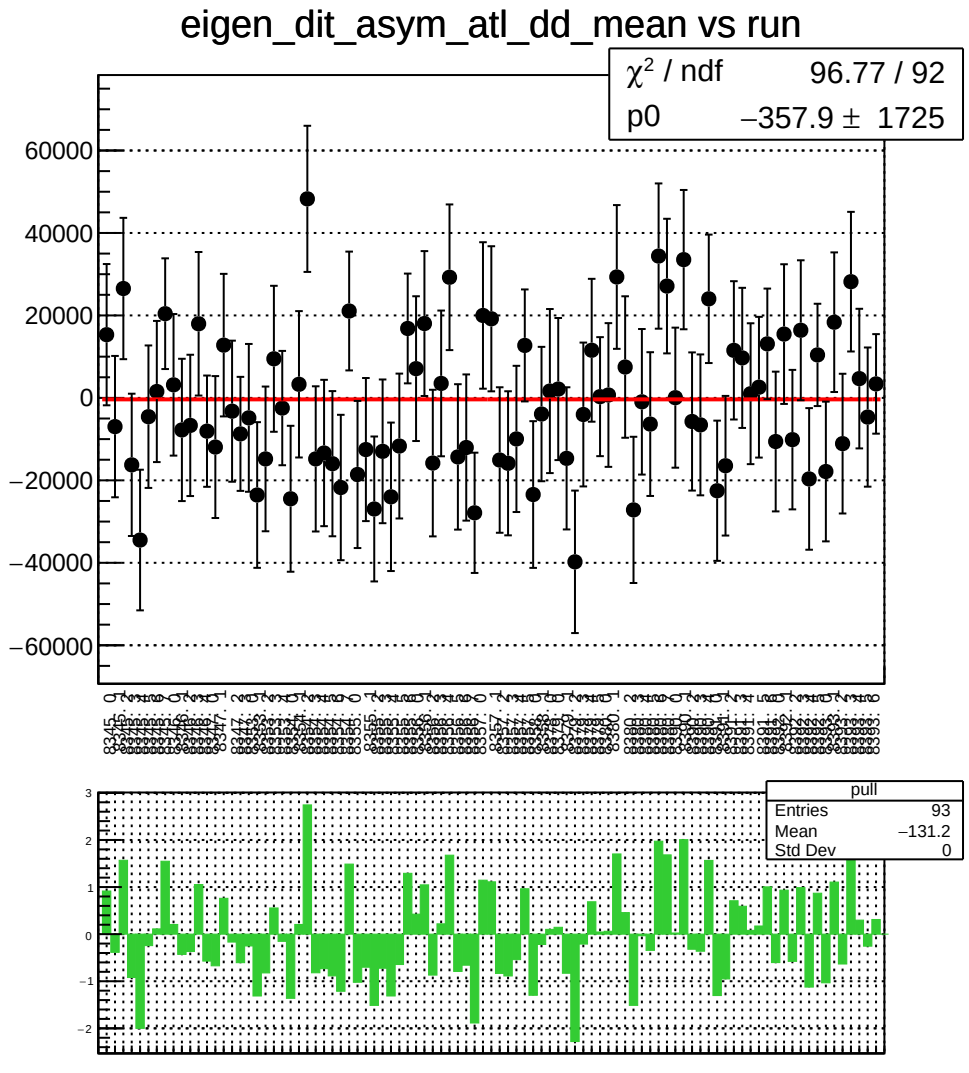

pull1D
Entries 93
Mean −0.02098
Std Dev 1.02
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

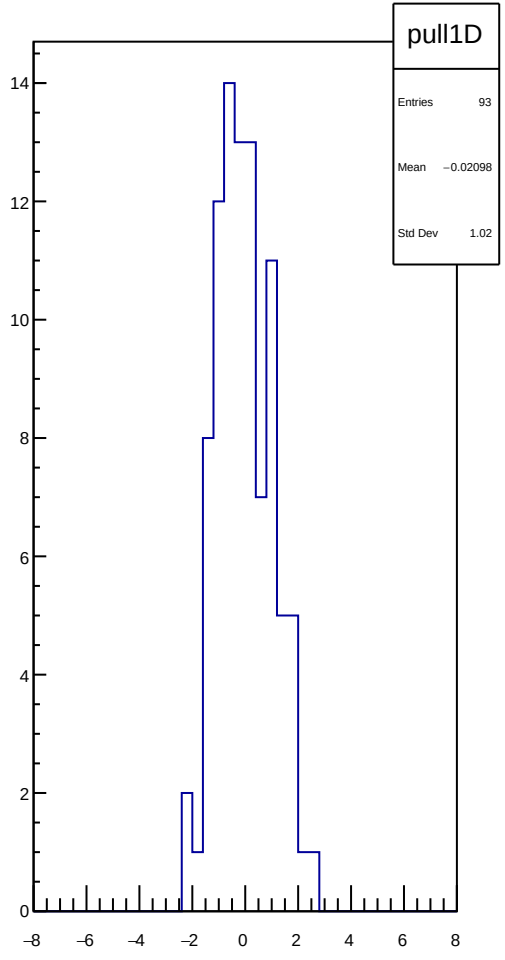

dit_asym_atl_dd_rms vs run
χ² / ndf 710.9 / 92
p0 1645 ± 1.22
1720
1700
1680
1660
1640
1620
1600
1580

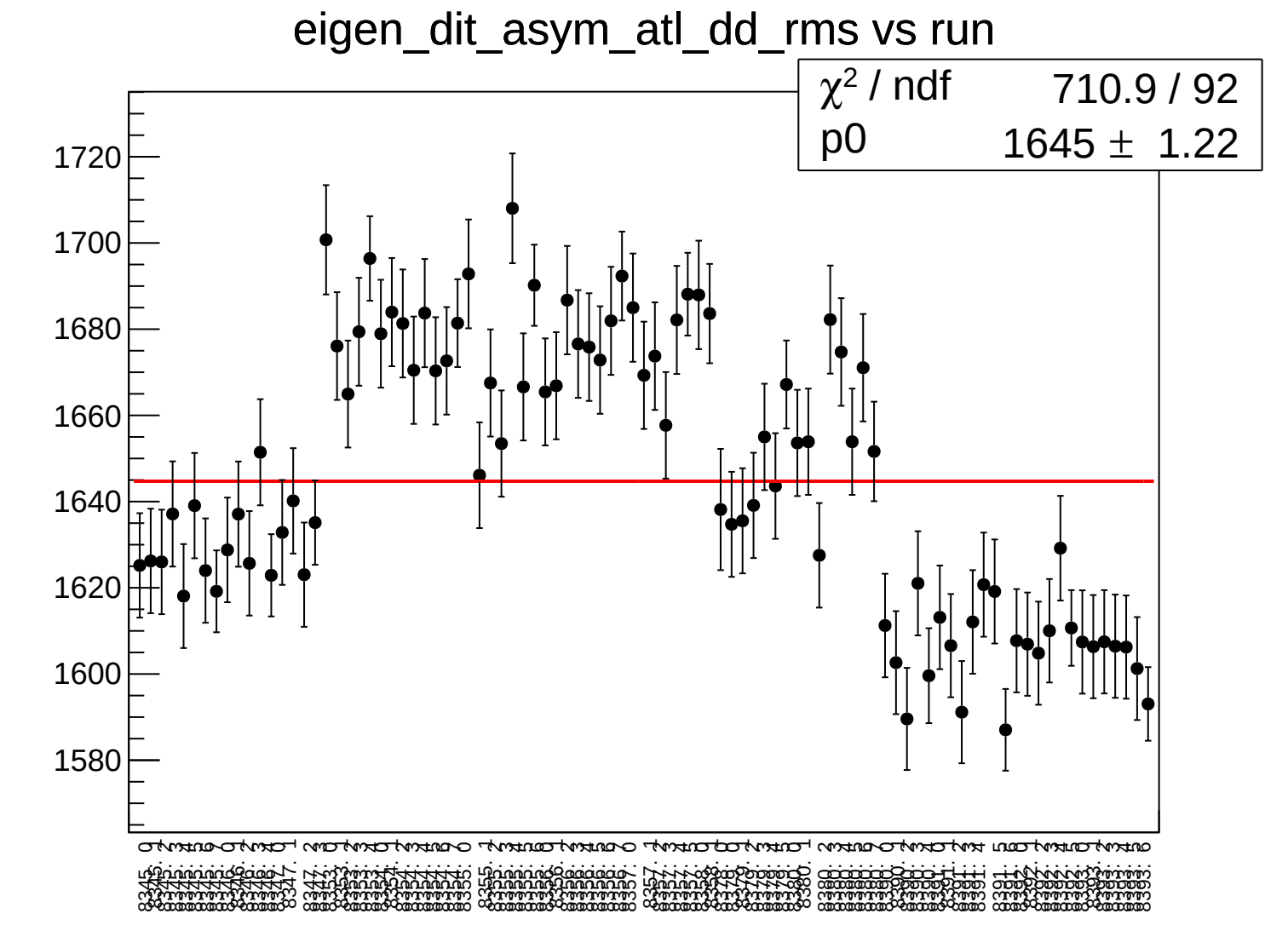

asym_atl_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 90.54 / 92
p0 −5349 ± 4231
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean −231.7
Std Dev 0
2
1
0
−1
−2
−3

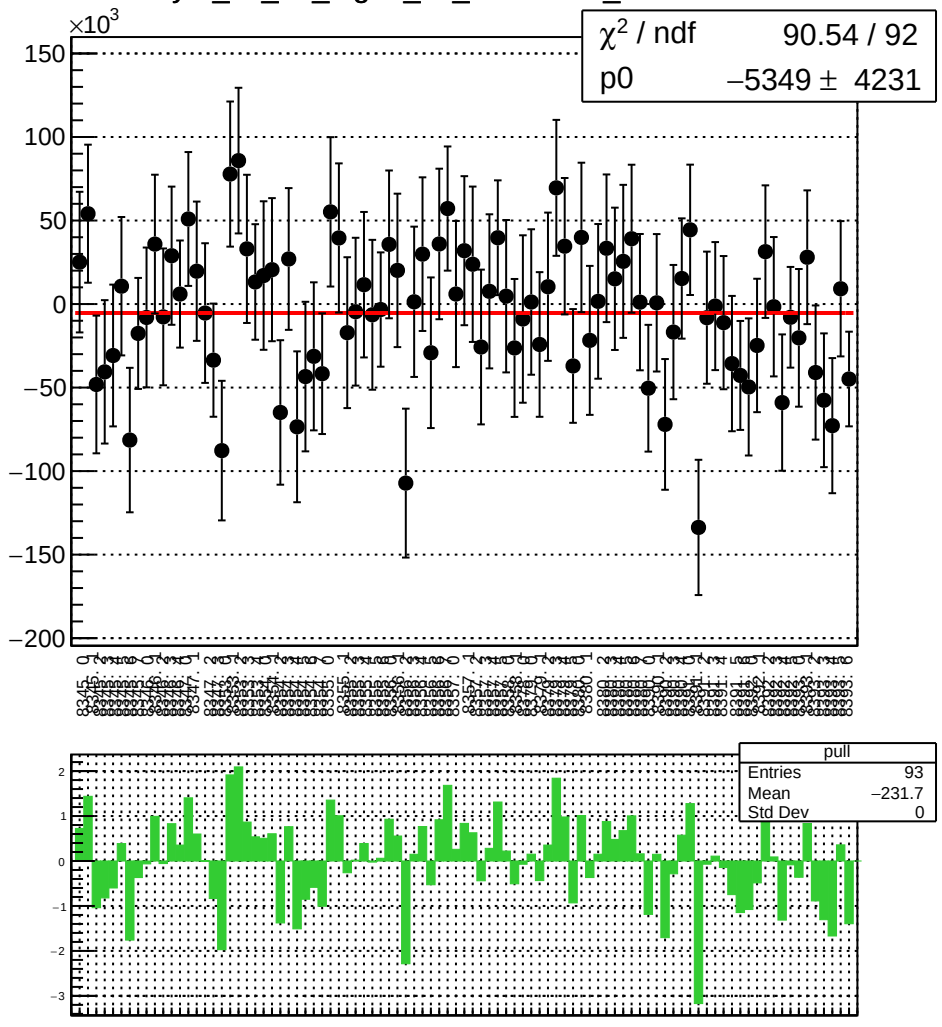

pull1D
Entries 93
Mean 0.01752
Std Dev 0.9866
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

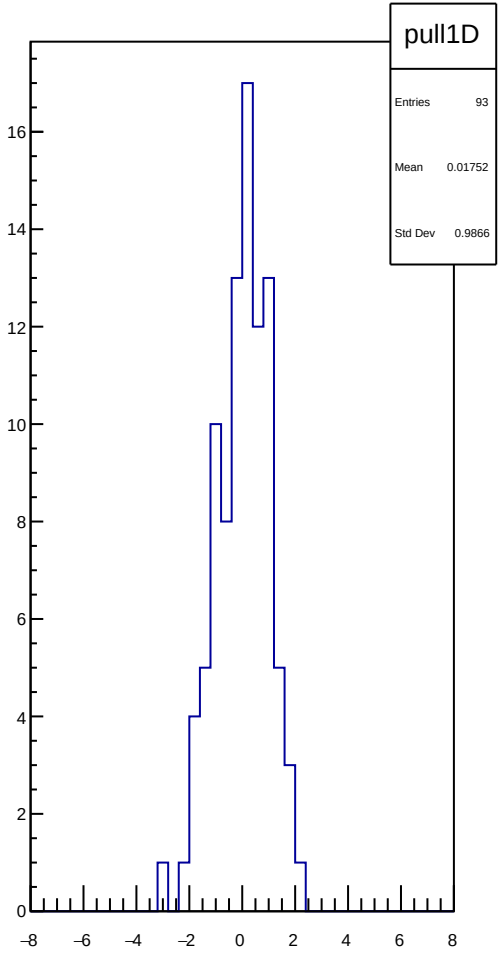

asym_atl_dd_dit_correction_rms vs run
χ² / ndf 4831 / 92
p0 4029 ± 2.992
4400
4200
4000
3800
3600

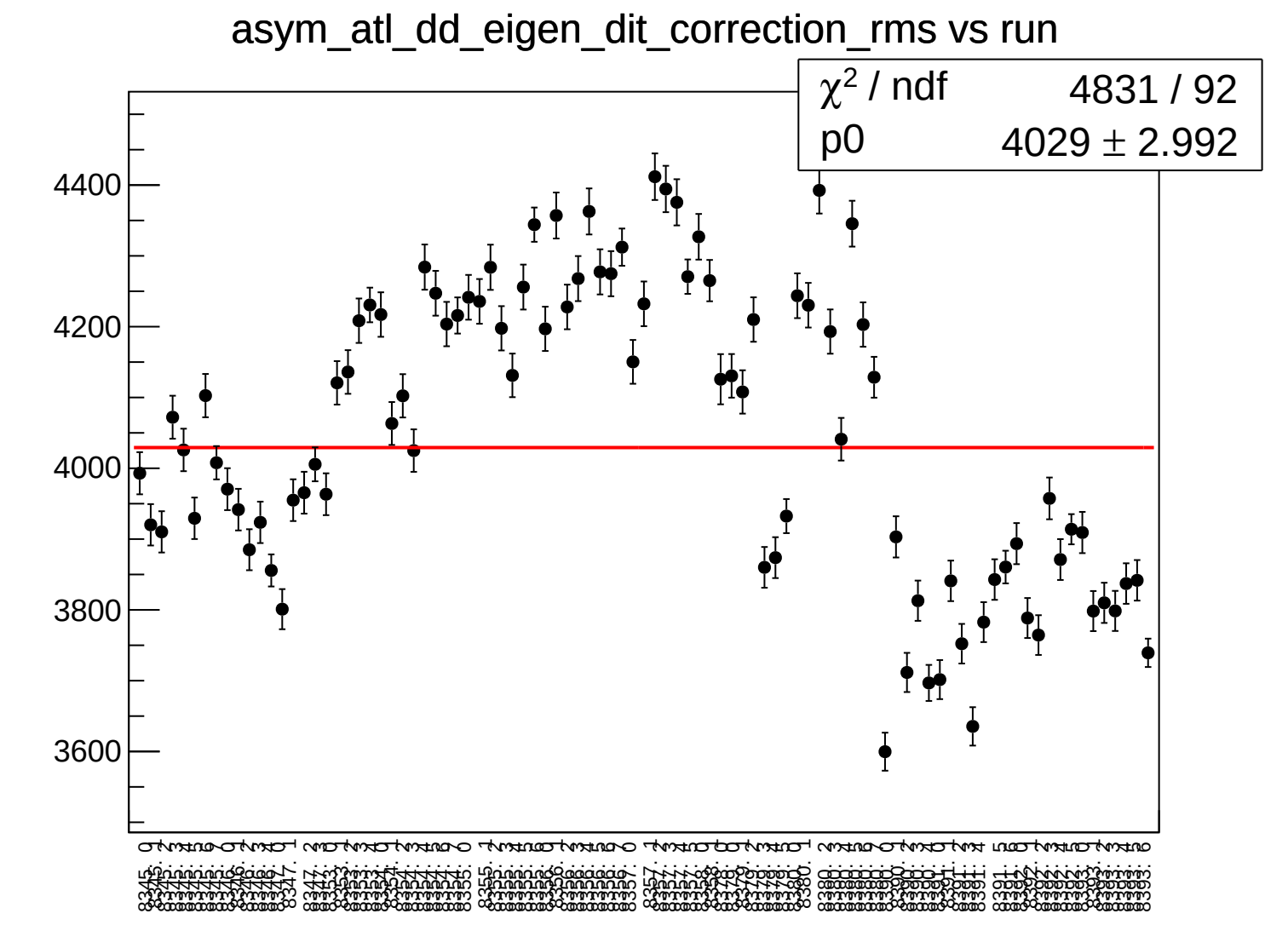

eigen_dit_asym_atl_dd_mean vs run
χ² / ndf 96.77 / 92
p0 −357.9 ± 1725
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −131.2
Std Dev 0
3
2
1
0
−1
−2

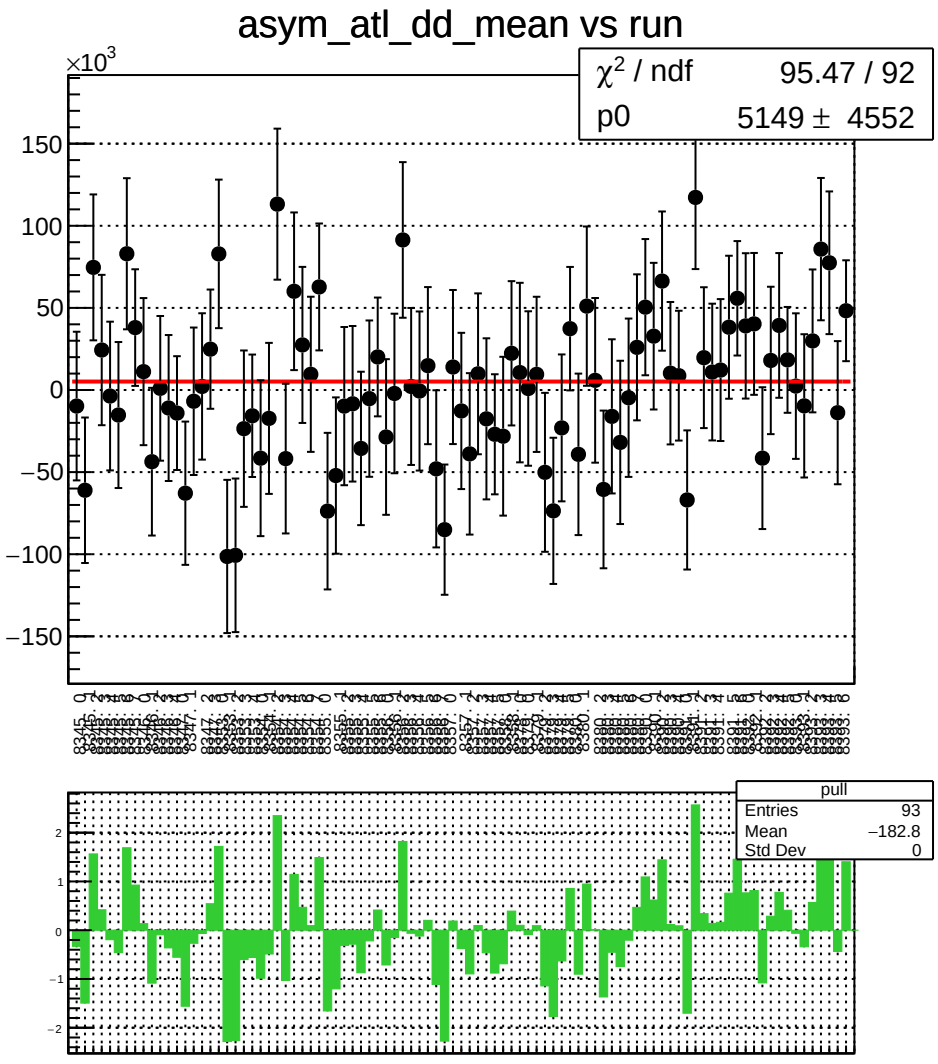

pull1D
Entries 93
Mean −0.02098
Std Dev 1.02
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

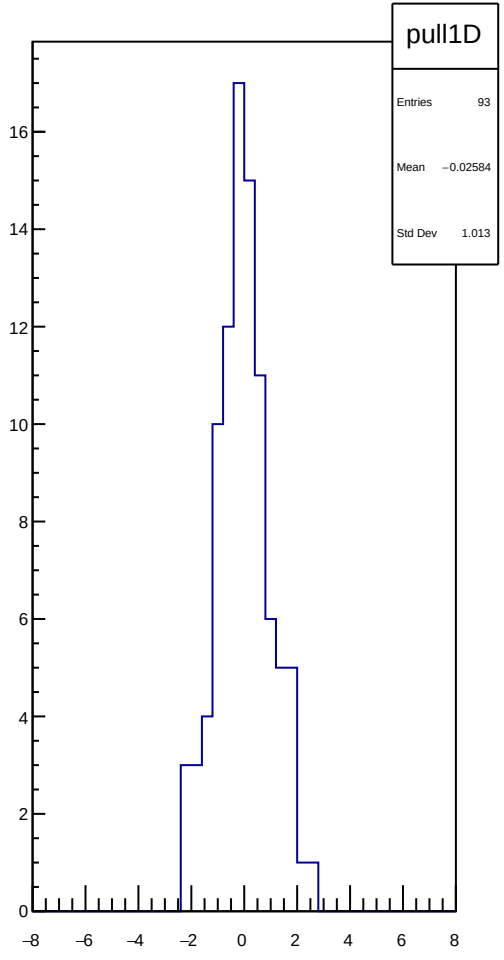

eigen_dit_asym_atl_dd_rms vs run
χ² / ndf 710.9 / 92
p0 1645 ± 1.22
1720
1700
1680
1660
1640
1620
1600
1580

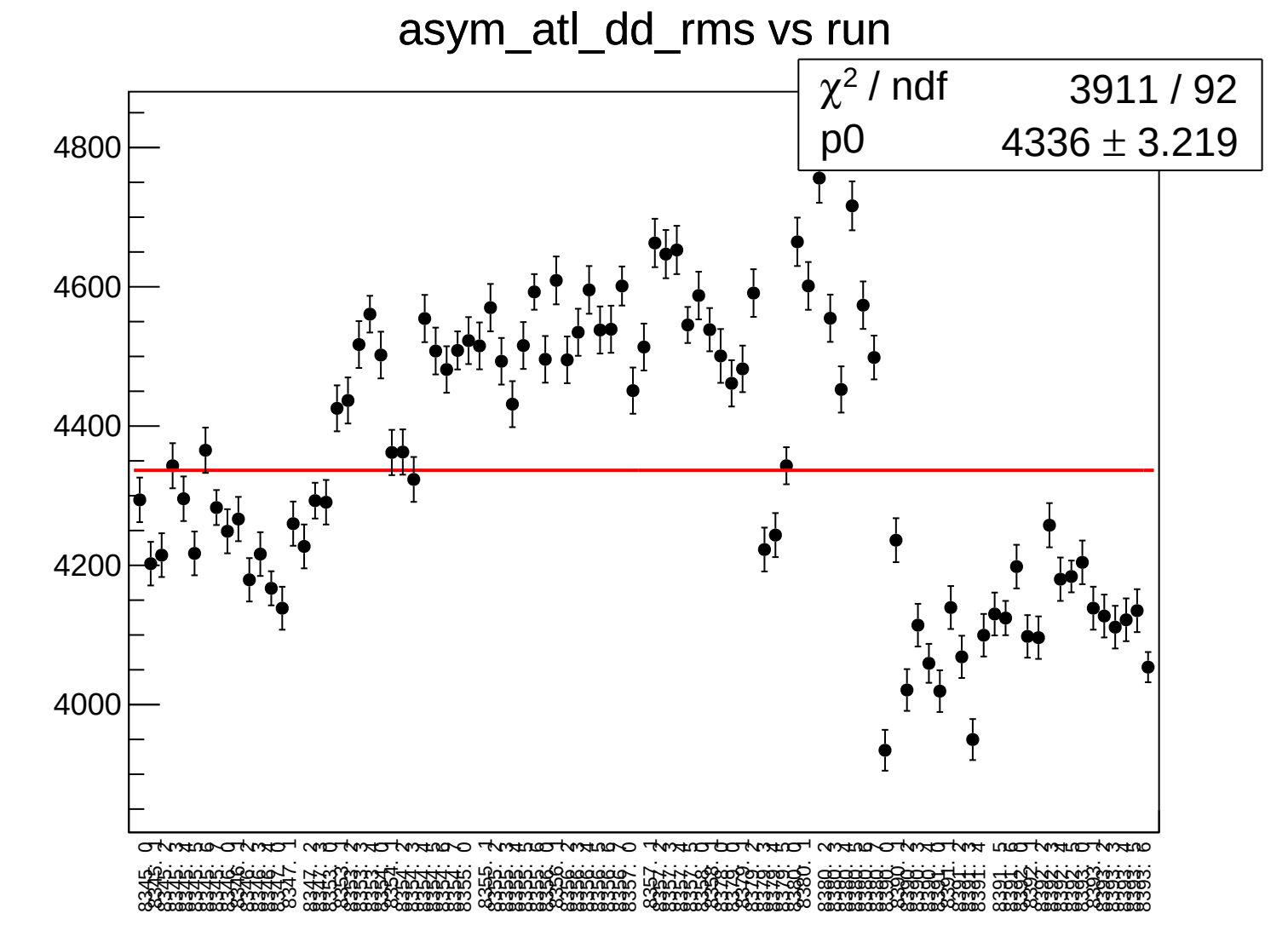

asym_atl_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 90.54 / 92
p0 −5349 ± 4231
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean −231.7
Std Dev 0
2
1
0
−1
−2
−3

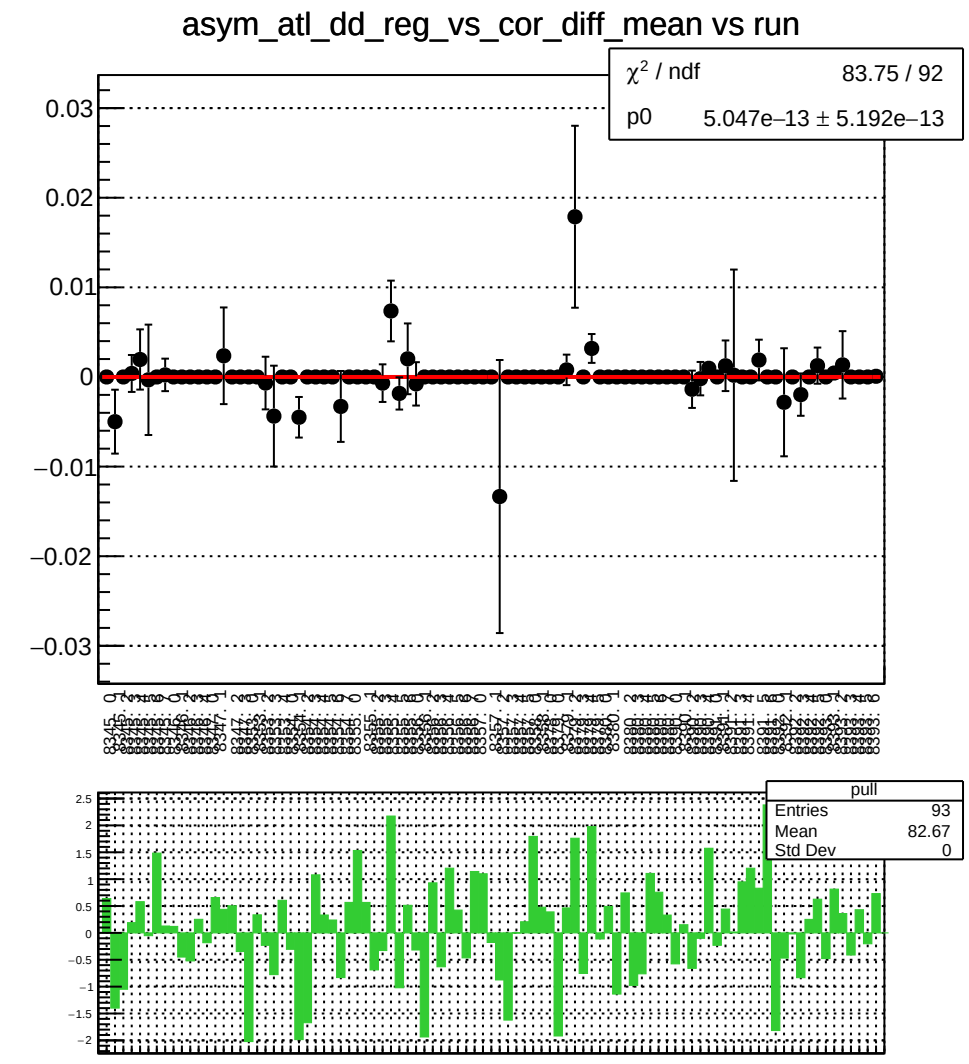

pull1D
Entries 93
Mean 0.01752
Std Dev 0.9866
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

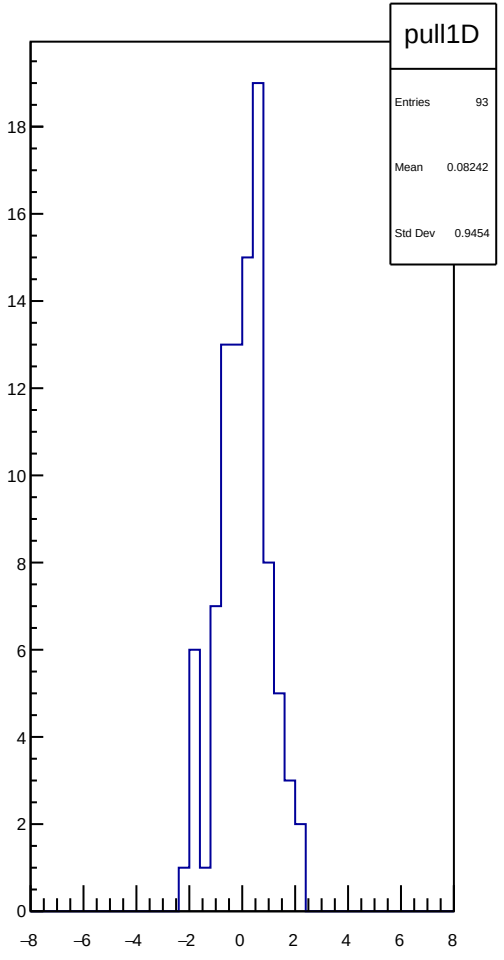

asym_atl_dd_eigen_dit_correction_rms vs run
χ² / ndf 4831 / 92
p0 4029 ± 2.992
4400
4200
4000
3800
3600

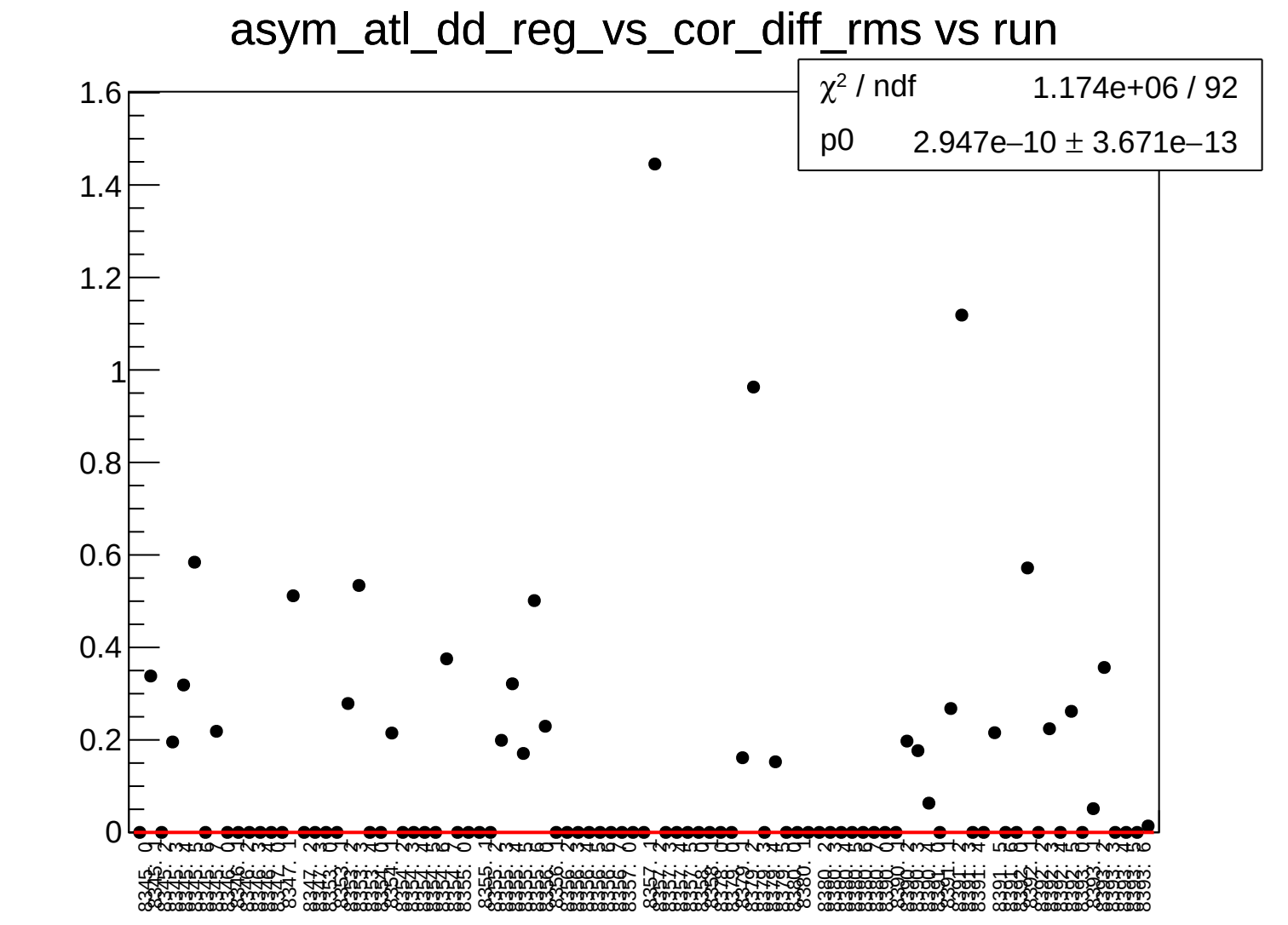

asym_atl_dd_mean vs run
×10^3
χ² / ndf 95.47 / 92
p0 5149 ± 4552
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean −182.8
Std Dev 0
2
1
0
−1
−2

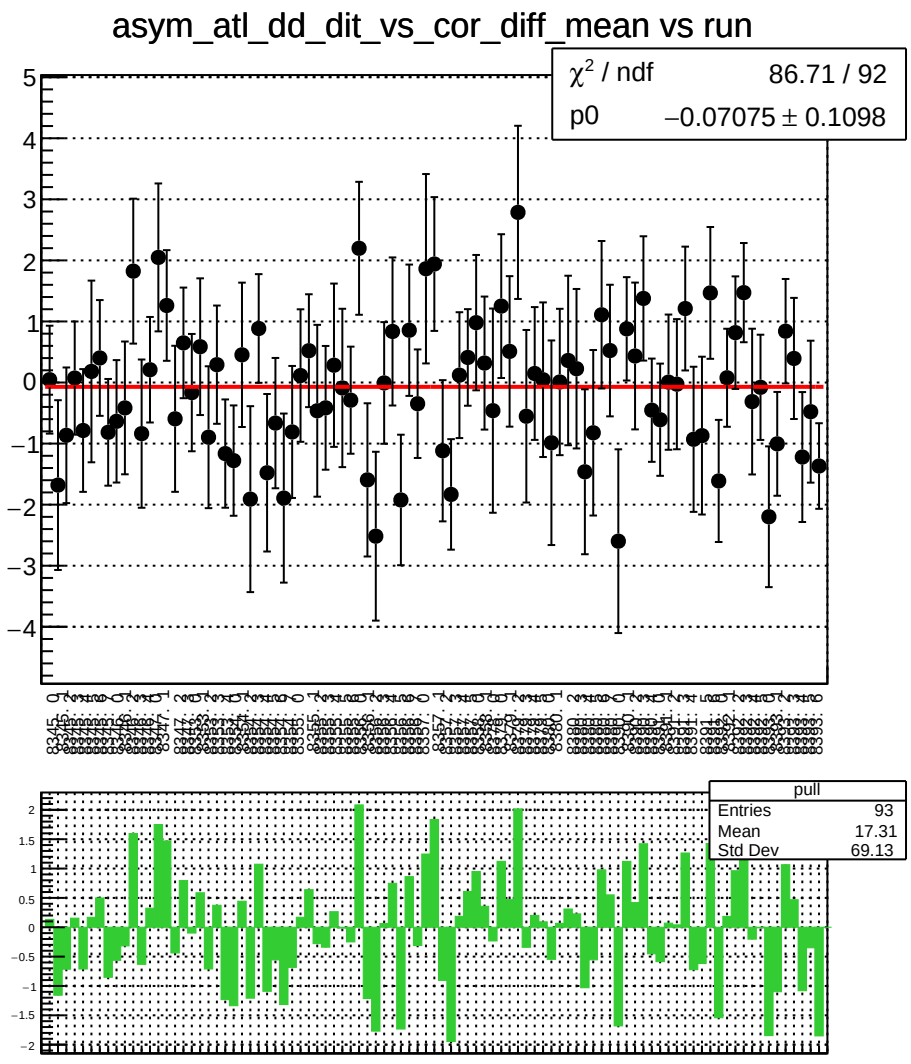

pull1D
Entries 93
Mean −0.02584
Std Dev 1.013
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

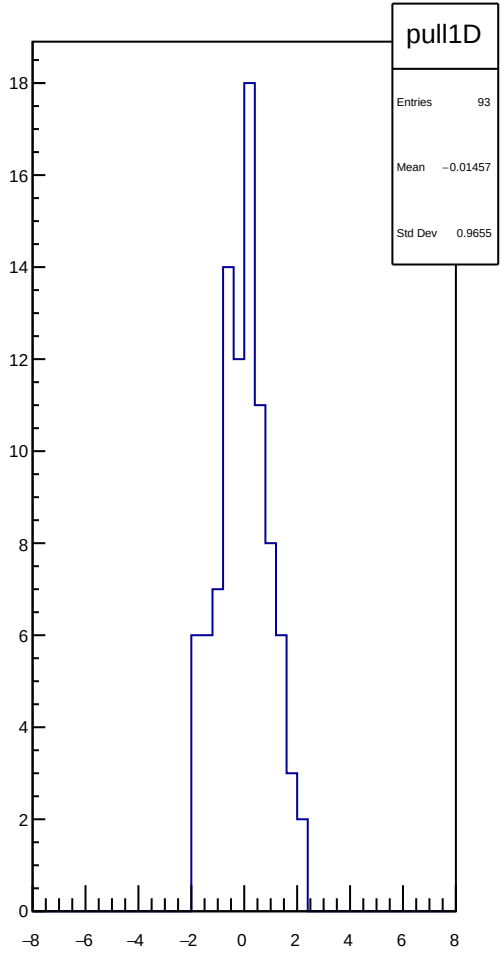

asym_atl_dd_rms vs run
χ² / ndf 3911 / 92
p0 4336 ± 3.219
4800
4600
4400
4200
4000

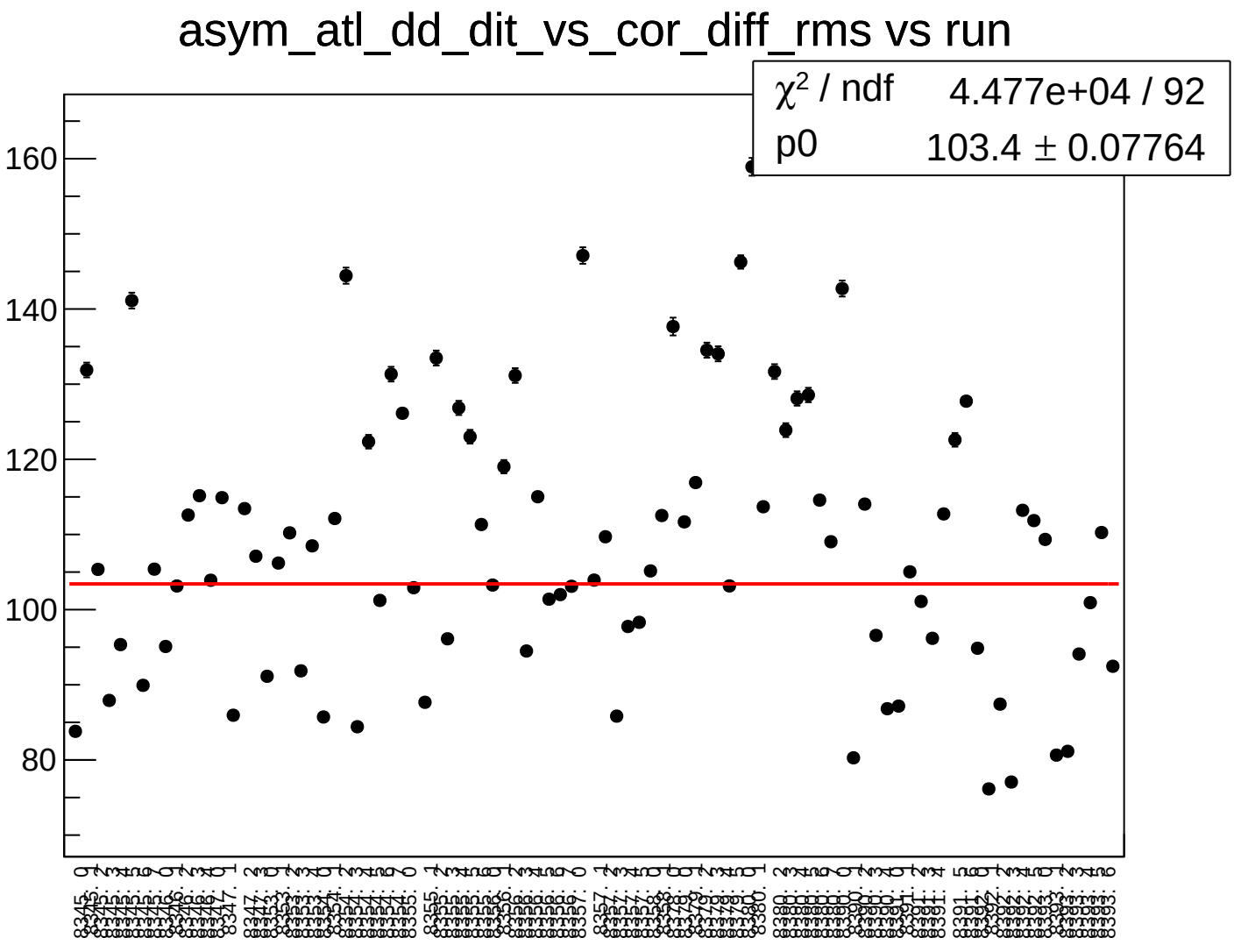

asym_atl_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 83.75 / 92
p0 5.047e−13 ± 5.192e−13
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 93
Mean 82.67
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

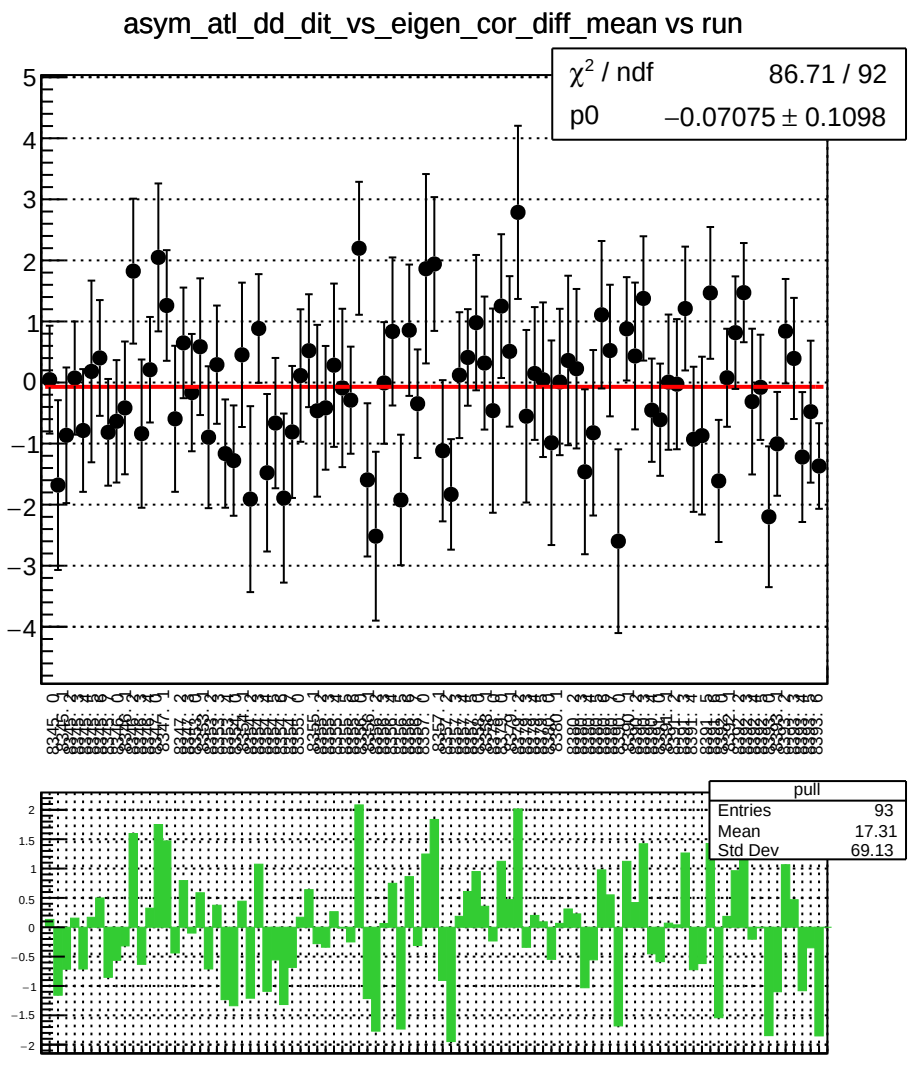

pull1D
Entries 93
Mean 0.08242
Std Dev 0.9454
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

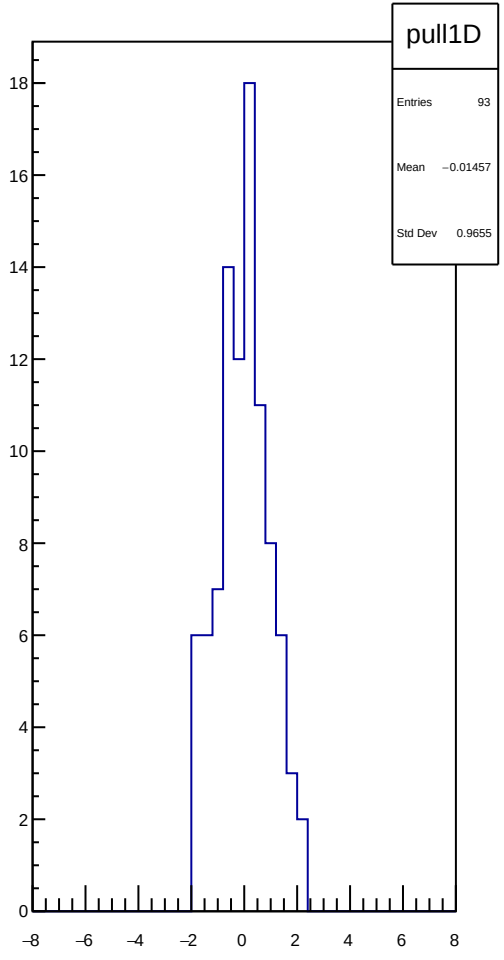

asym_atl_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.174e+06 / 92
p0 2.947e−10 ± 3.671e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

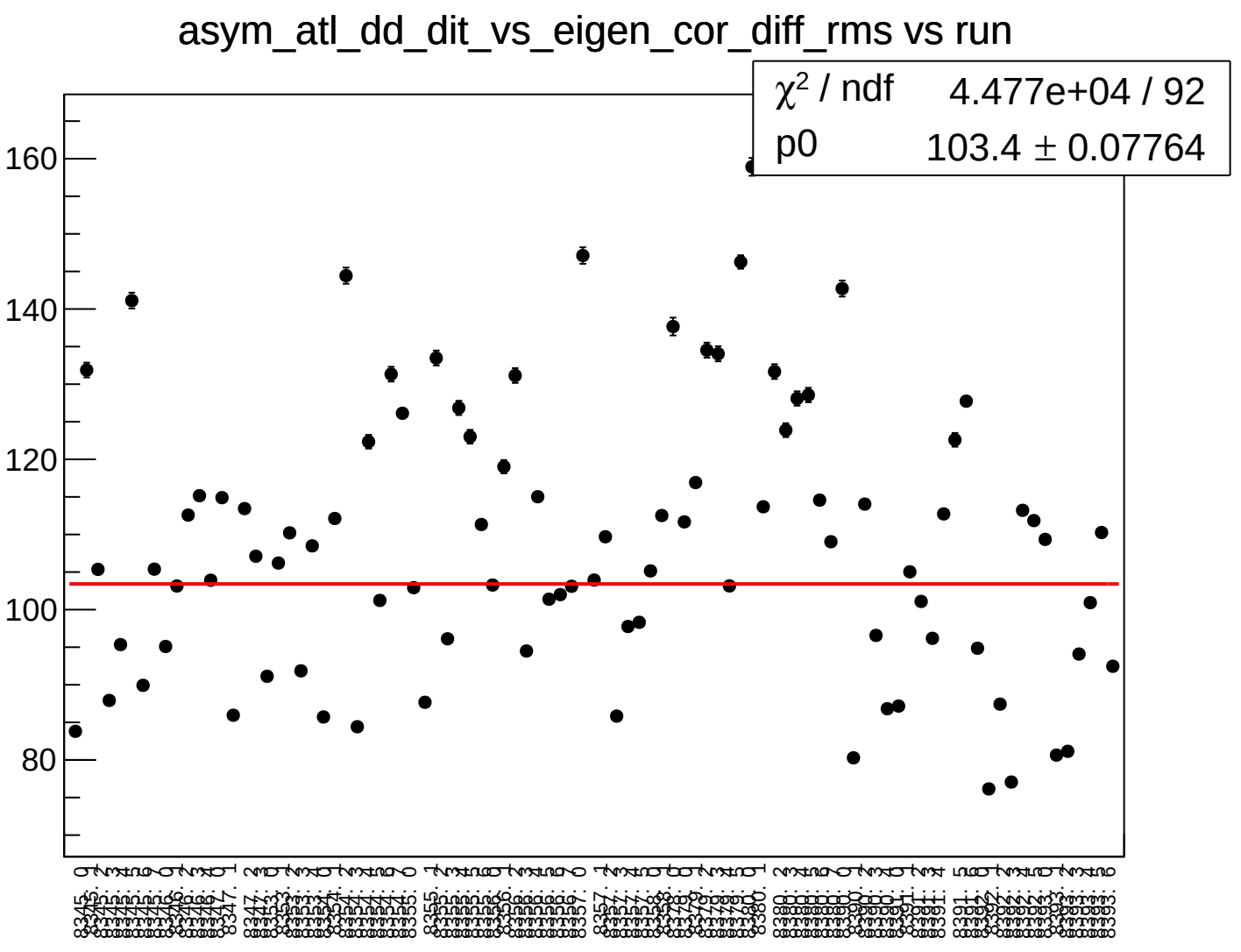

asym_atl_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 86.71 / 92
p0 −0.07075 ± 0.1098
pull
Entries 93
Mean 17.31
Std Dev 69.13

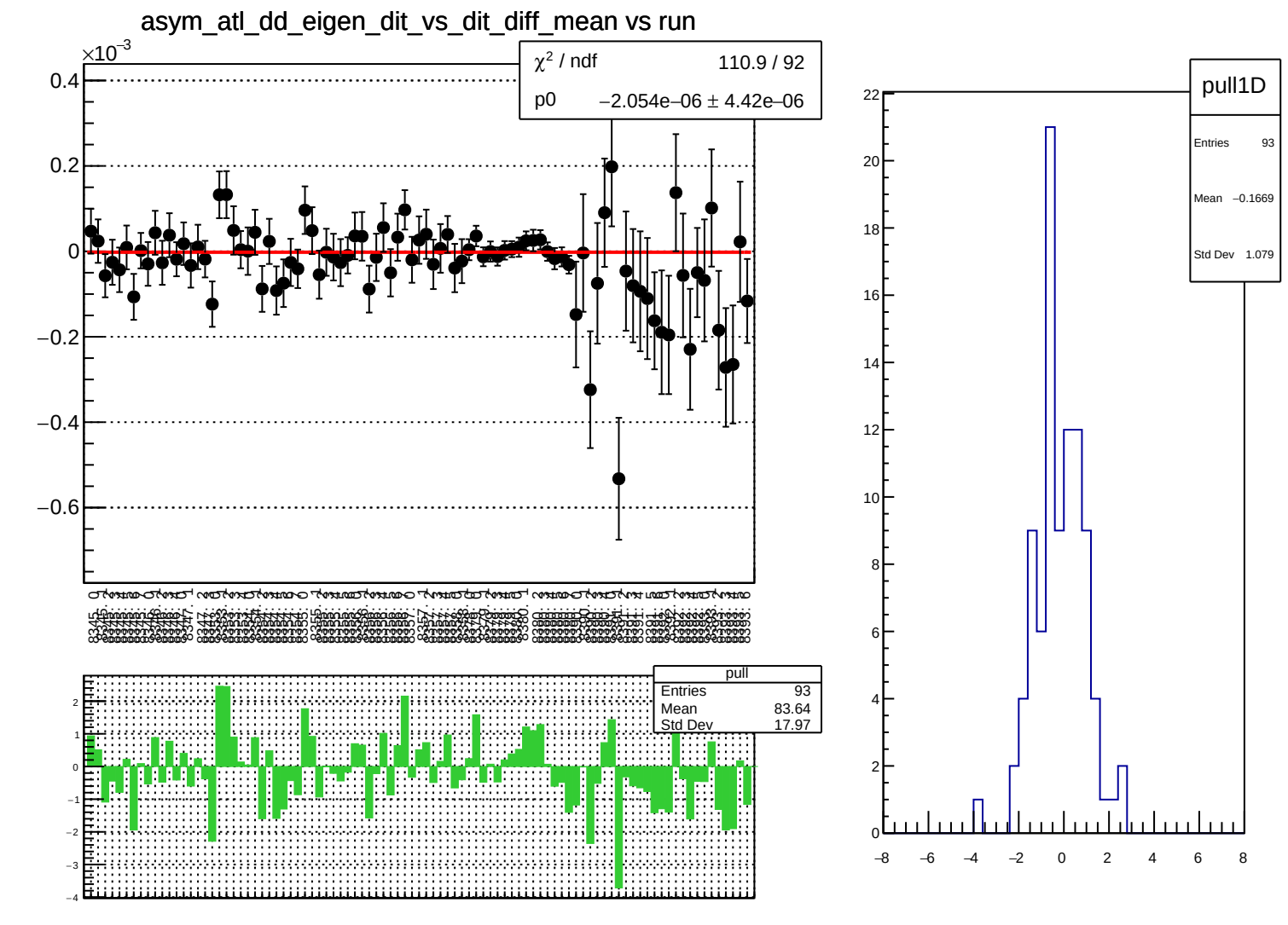

pull1D
Entries 93
Mean −0.01457
Std Dev 0.9655

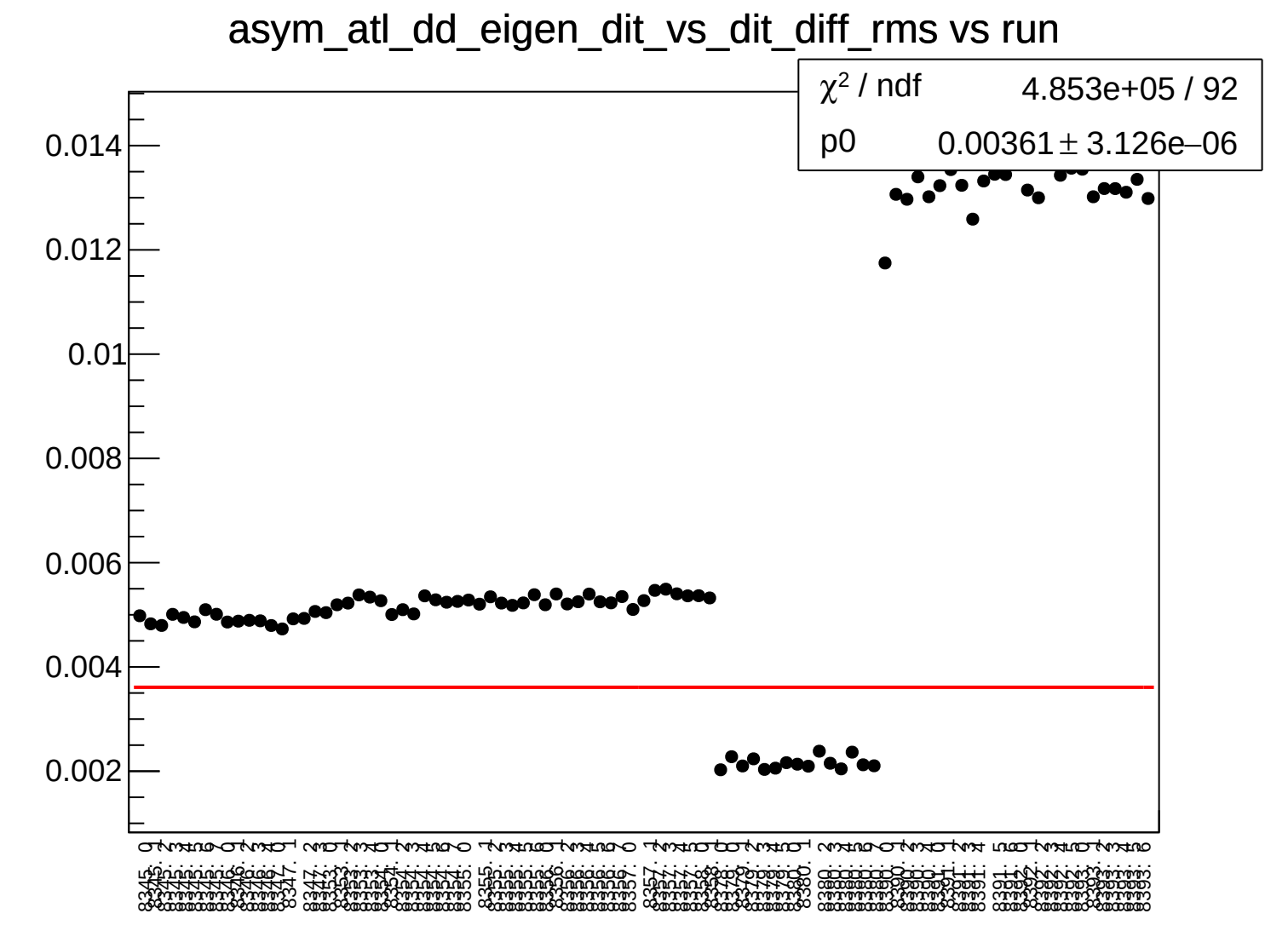

asym_atl_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.477e+04 / 92
p0 103.4 ± 0.07764
160
140
120
100
80

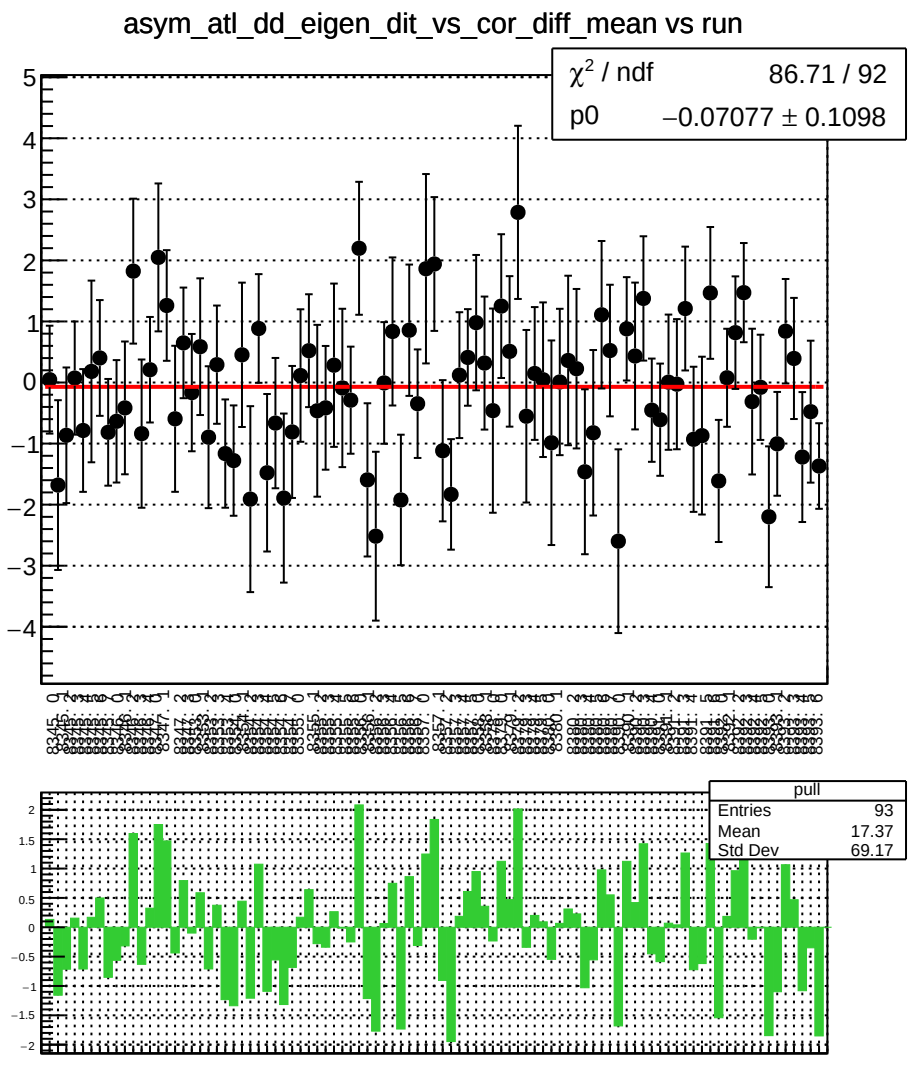

asym_atl_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.71 / 92
p0 −0.07075 ± 0.1098
pull
Entries 93
Mean 17.31
Std Dev 69.13

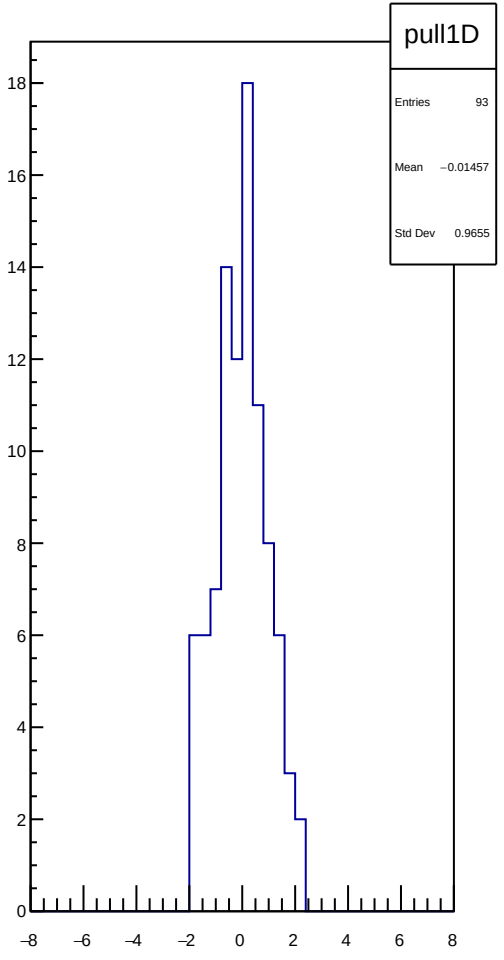

pull1D
Entries 93
Mean −0.01457
Std Dev 0.9655

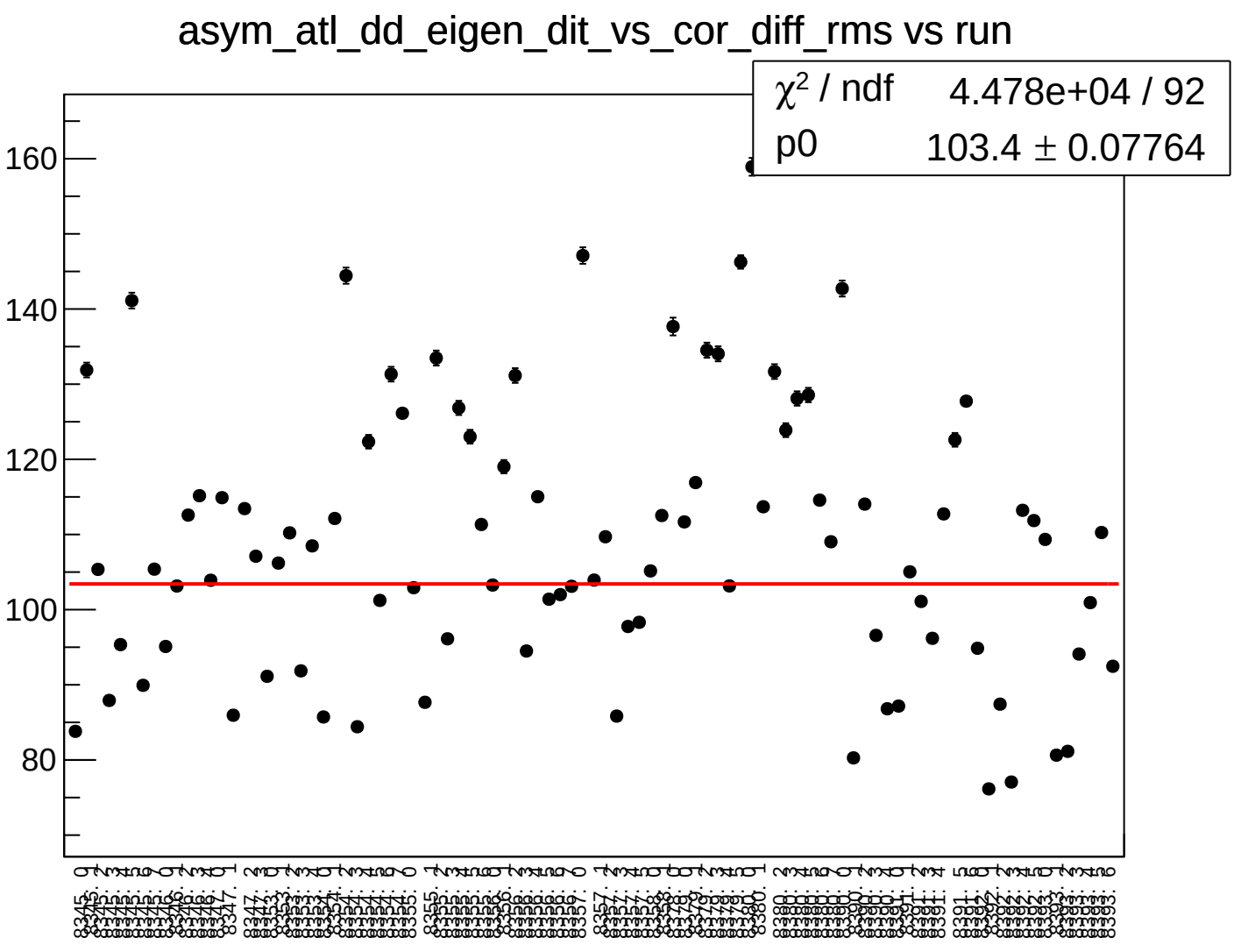

asym_atl_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.477e+04 / 92
p0 103.4 ± 0.07764
160
140
120
100
80

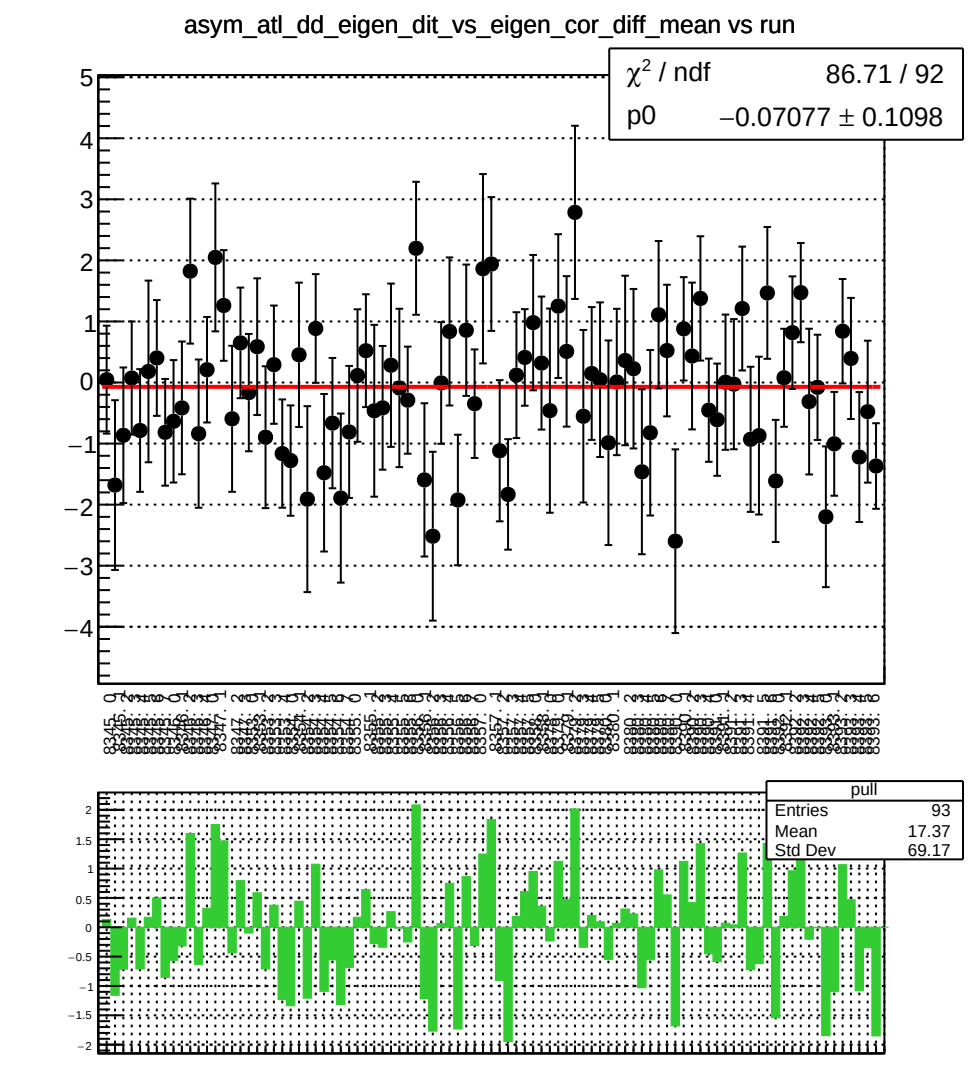

asym_atl_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 110.9 / 92
p0 −2.054e−06 ± 4.42e−06
pull
Entries 93
Mean 83.64
Std Dev 17.97
pull1D
Entries 93
Mean −0.1669
Std Dev 1.079

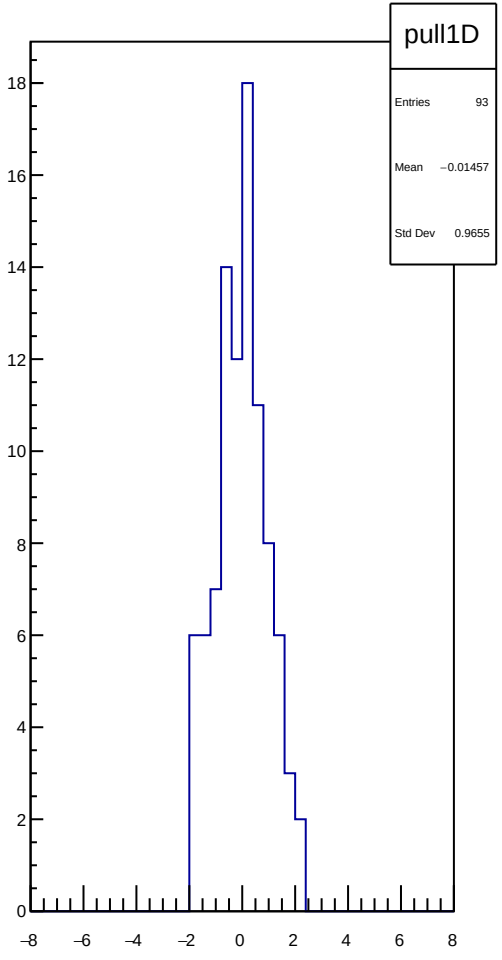

asym_atl_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.853e+05 / 92
p0 0.00361 ± 3.126e−06
0.014
0.012
0.01
0.008
0.006
0.004
0.002

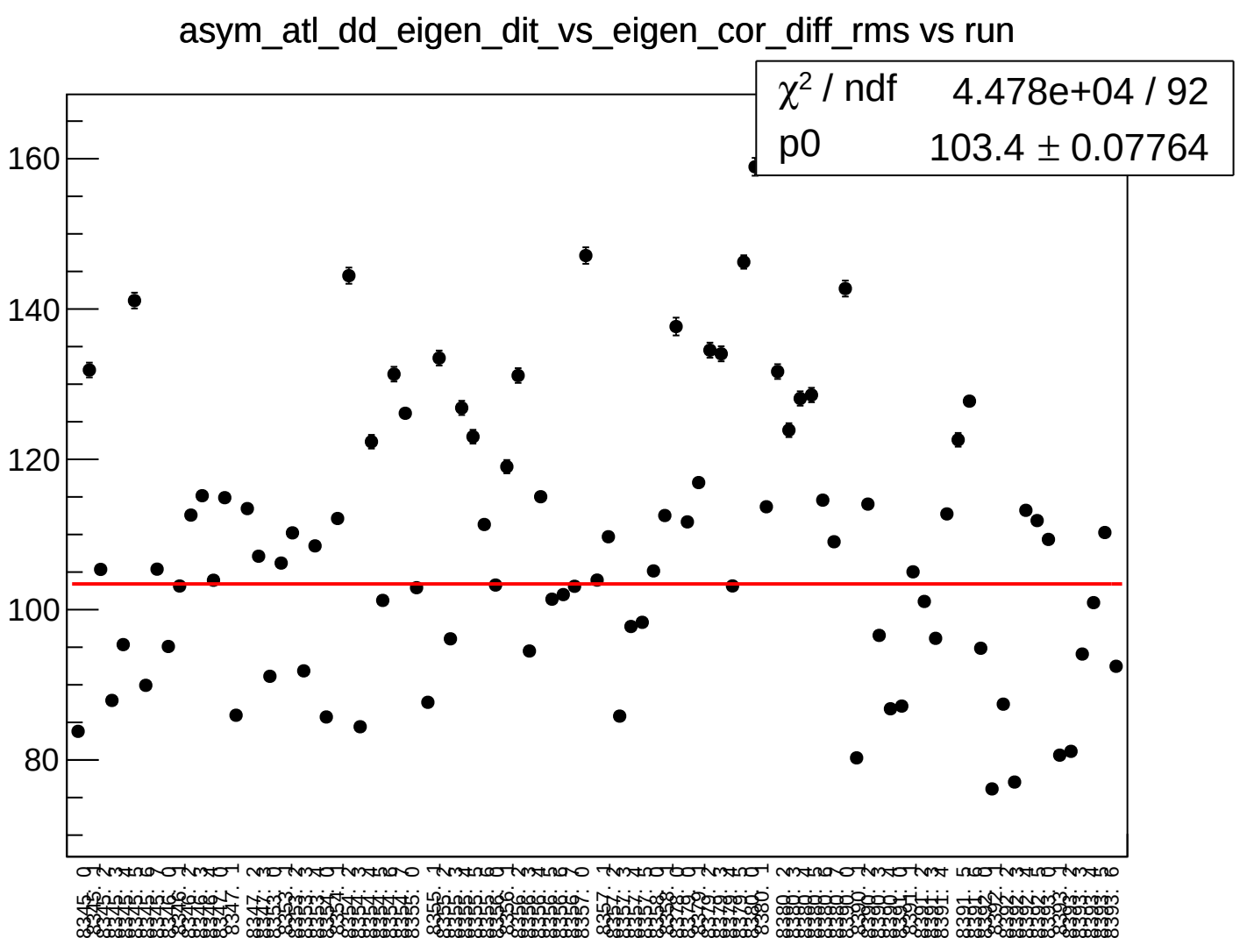

asym_atl_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.71 / 92
p0 −0.07077 ± 0.1098
pull
Entries 93
Mean 17.37
Std Dev 69.17

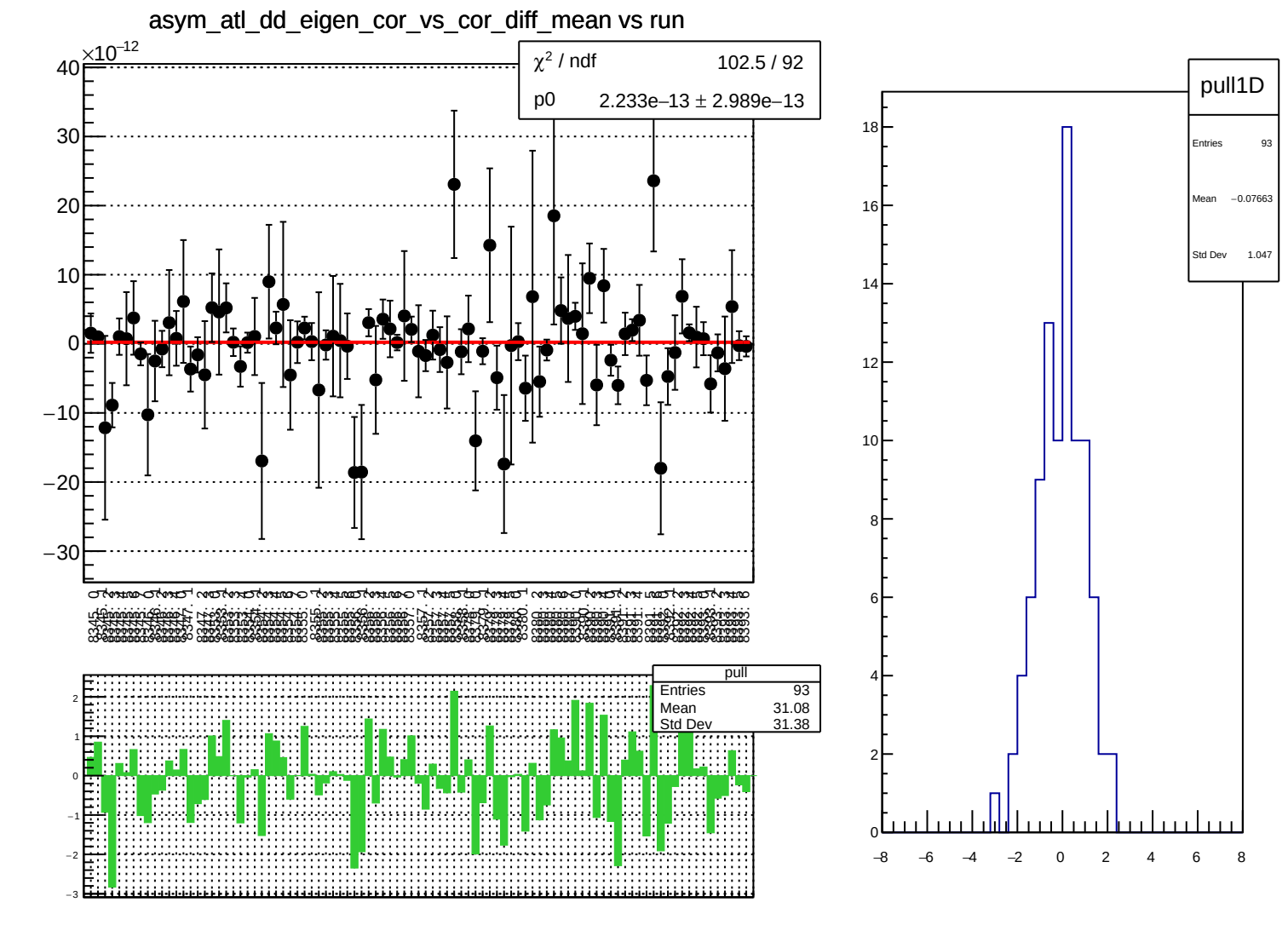

pull1D
Entries 93
Mean −0.01457
Std Dev 0.9655

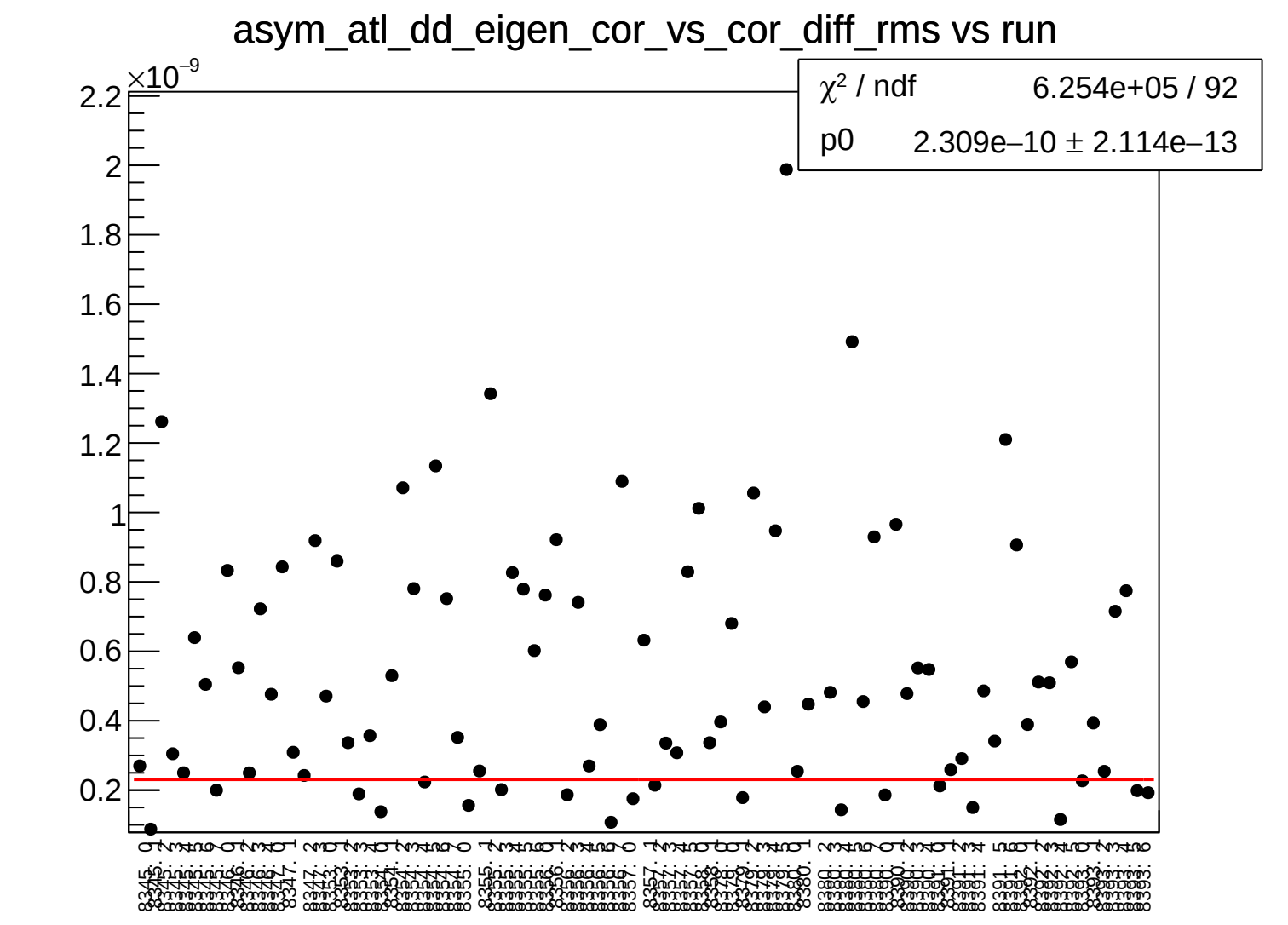

asym_atl_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.478e+04 / 92
p0 103.4 ± 0.07764
160
140
120
100
80

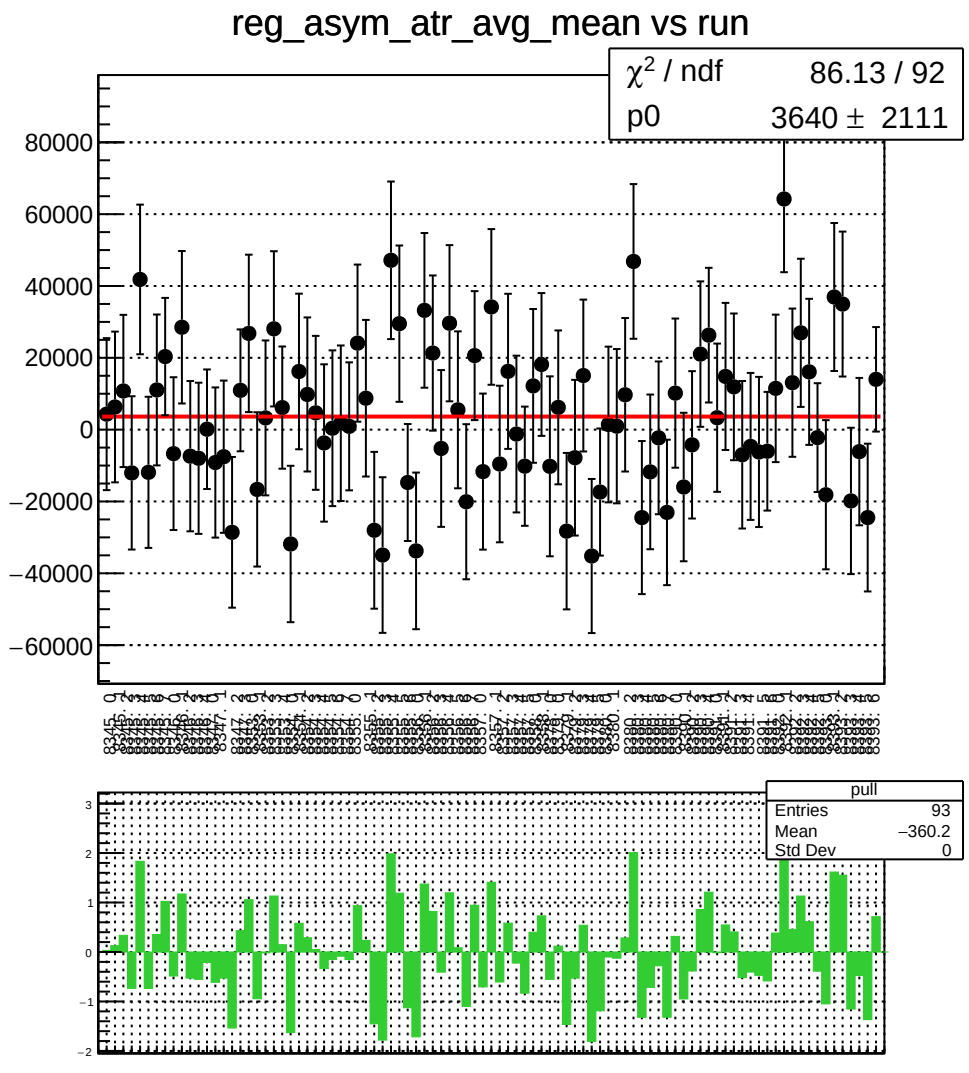

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.71 / 92
p0 −0.07077 ± 0.1098
pull
Entries 93
Mean 17.37
Std Dev 69.17

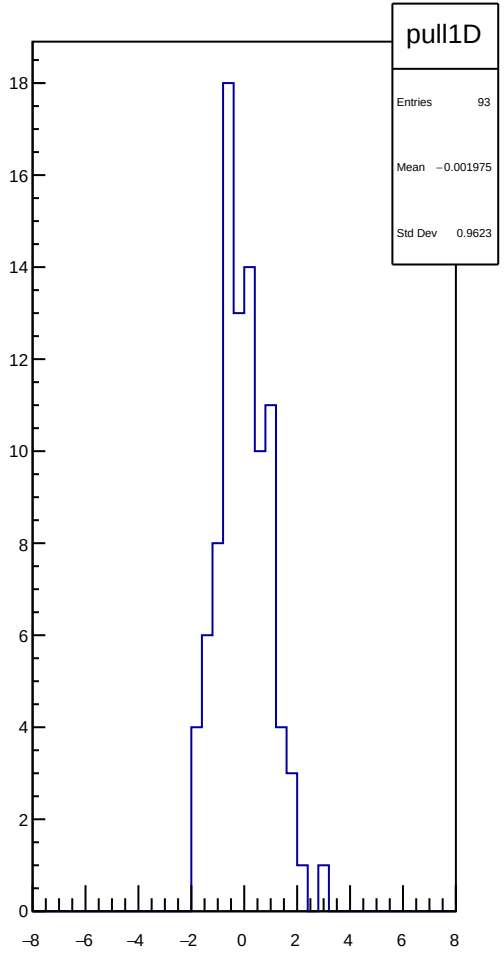

pull1D
Entries 93
Mean −0.01457
Std Dev 0.9655

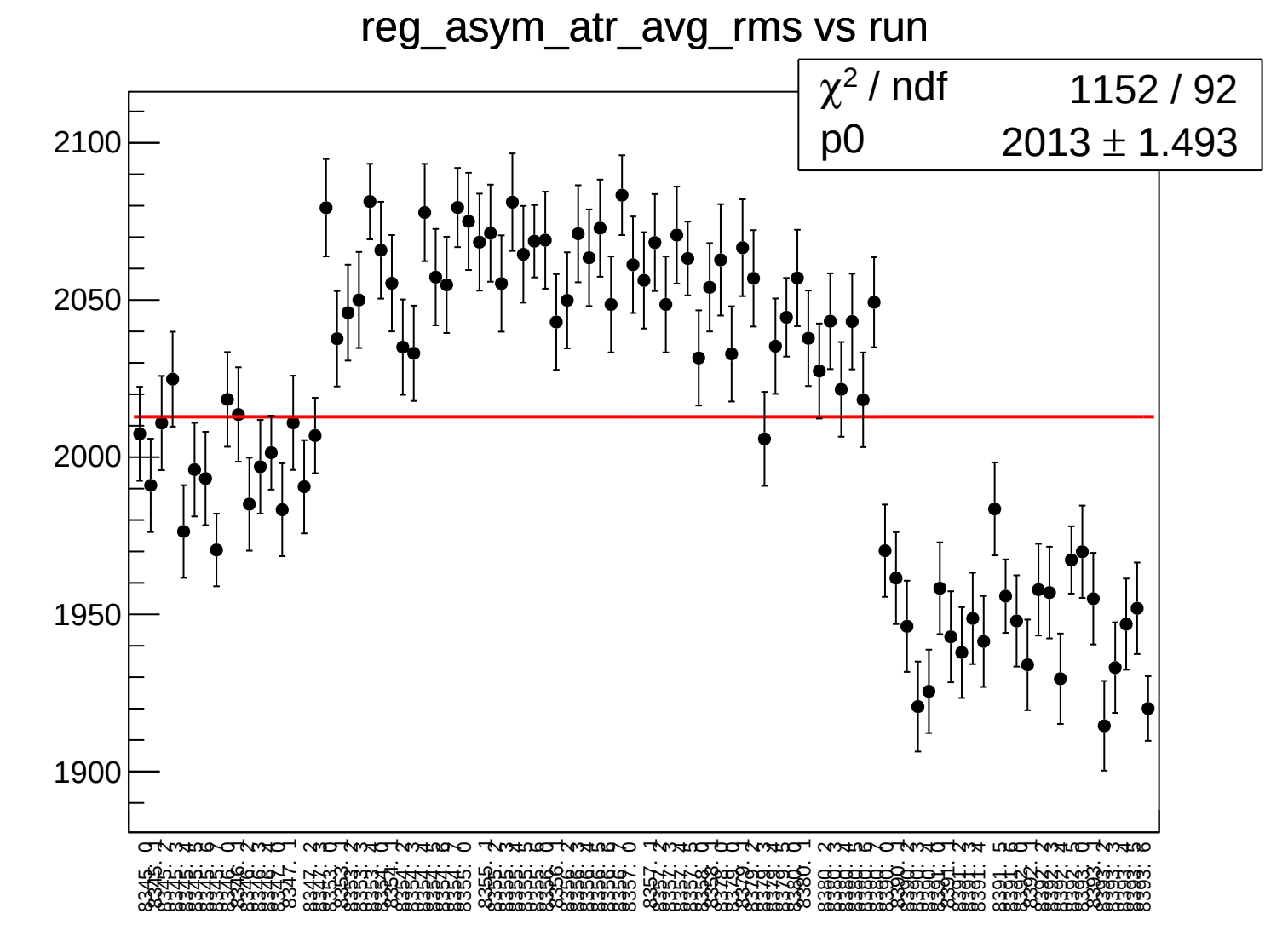

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.478e+04 / 92
p0 103.4 ± 0.07764
160
140
120
100
80

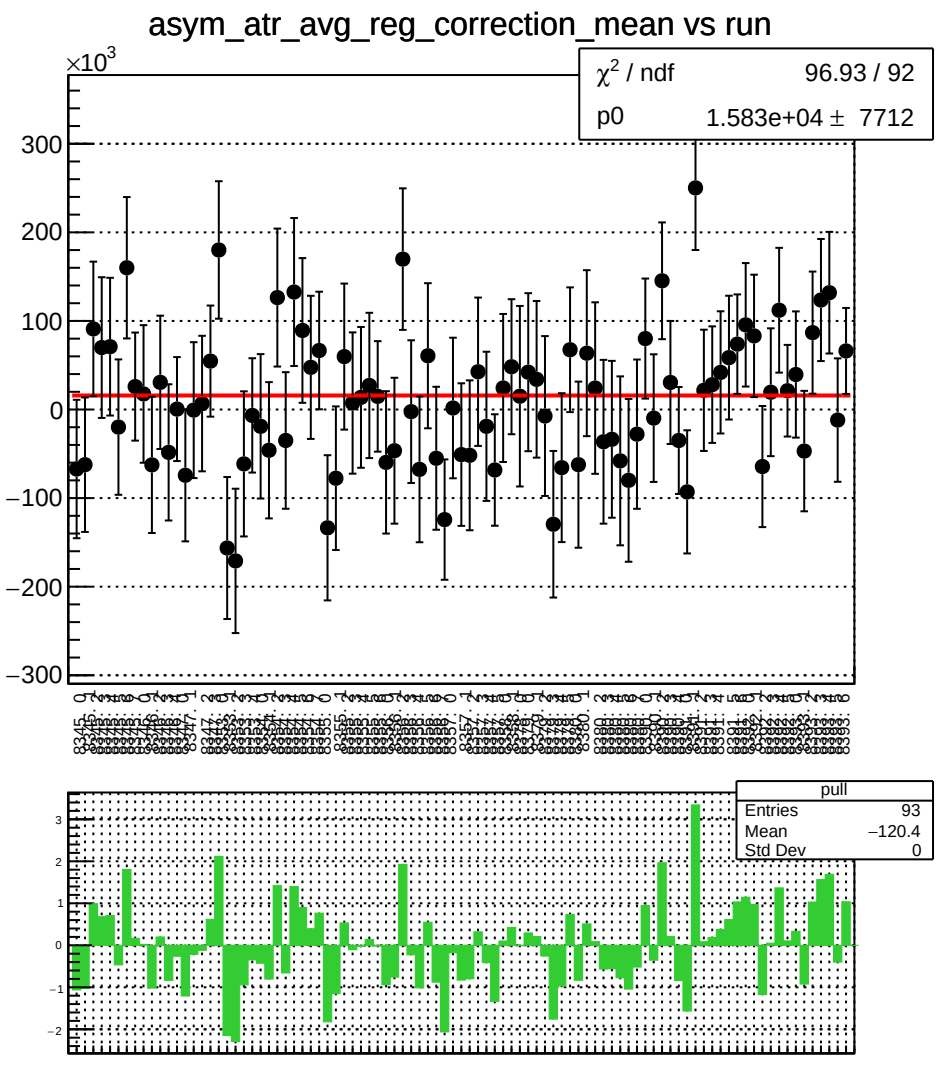

asym_atl_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 102.5 / 92
p0 2.233e−13 ± 2.989e−13
pull
Entries 93
Mean 31.08
Std Dev 31.38
pull1D
Entries 93
Mean −0.07663
Std Dev 1.047

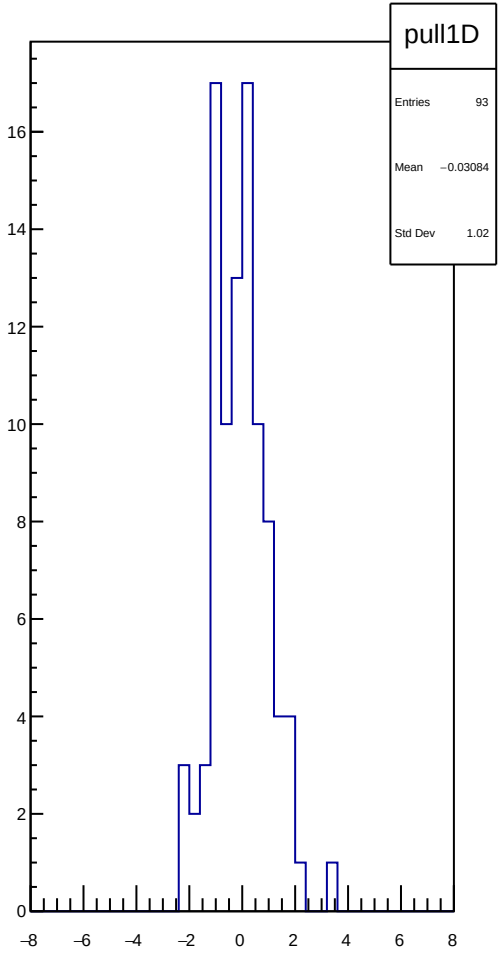

asym_atl_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.254e+05 / 92
p0 2.309e−10 ± 2.114e−13
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

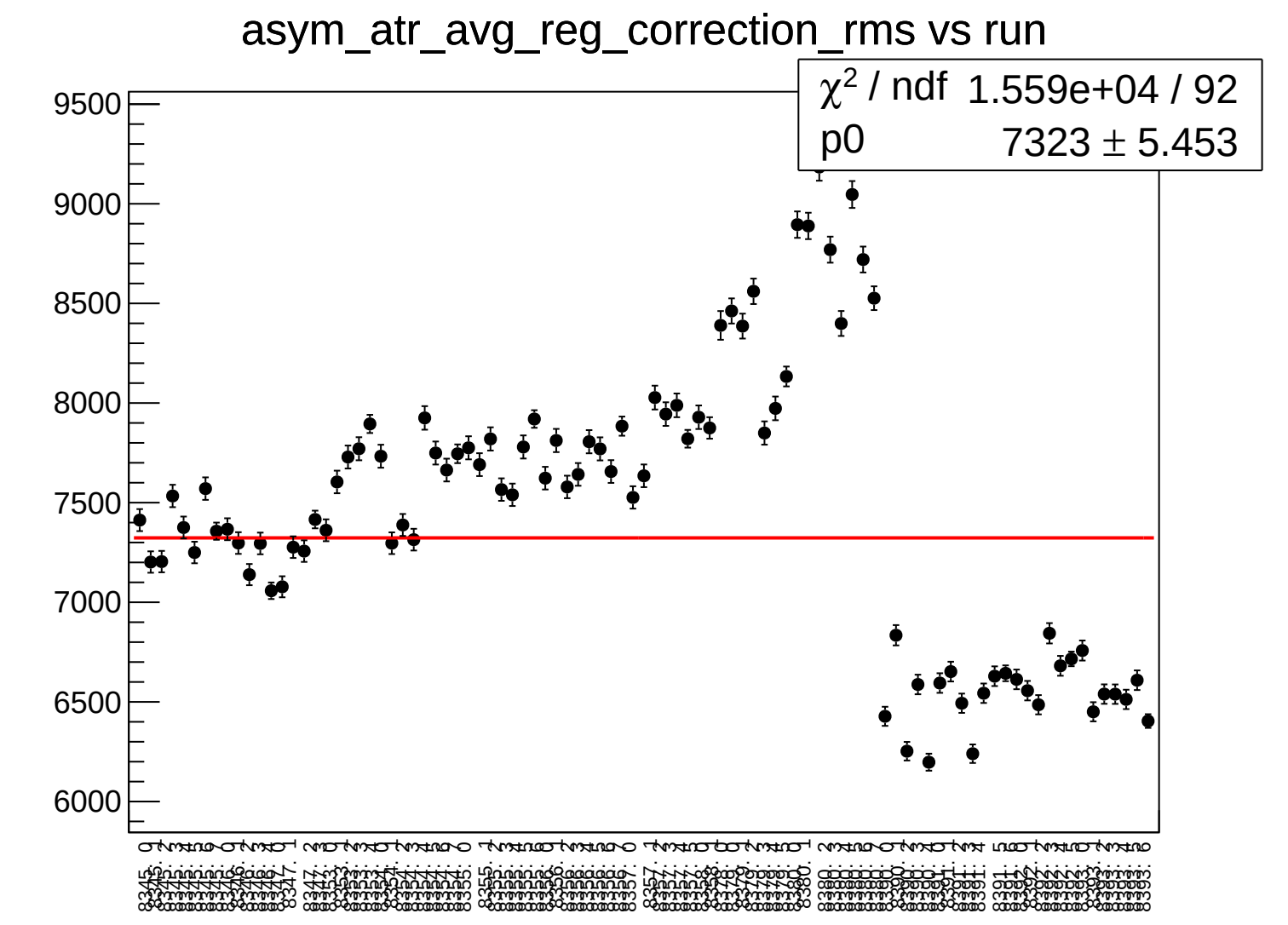

reg_asym_atr_avg_mean vs run
χ² / ndf 86.13 / 92
p0 3640 ± 2111
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −360.2
Std Dev 0
3
2
1
0
−1
−2

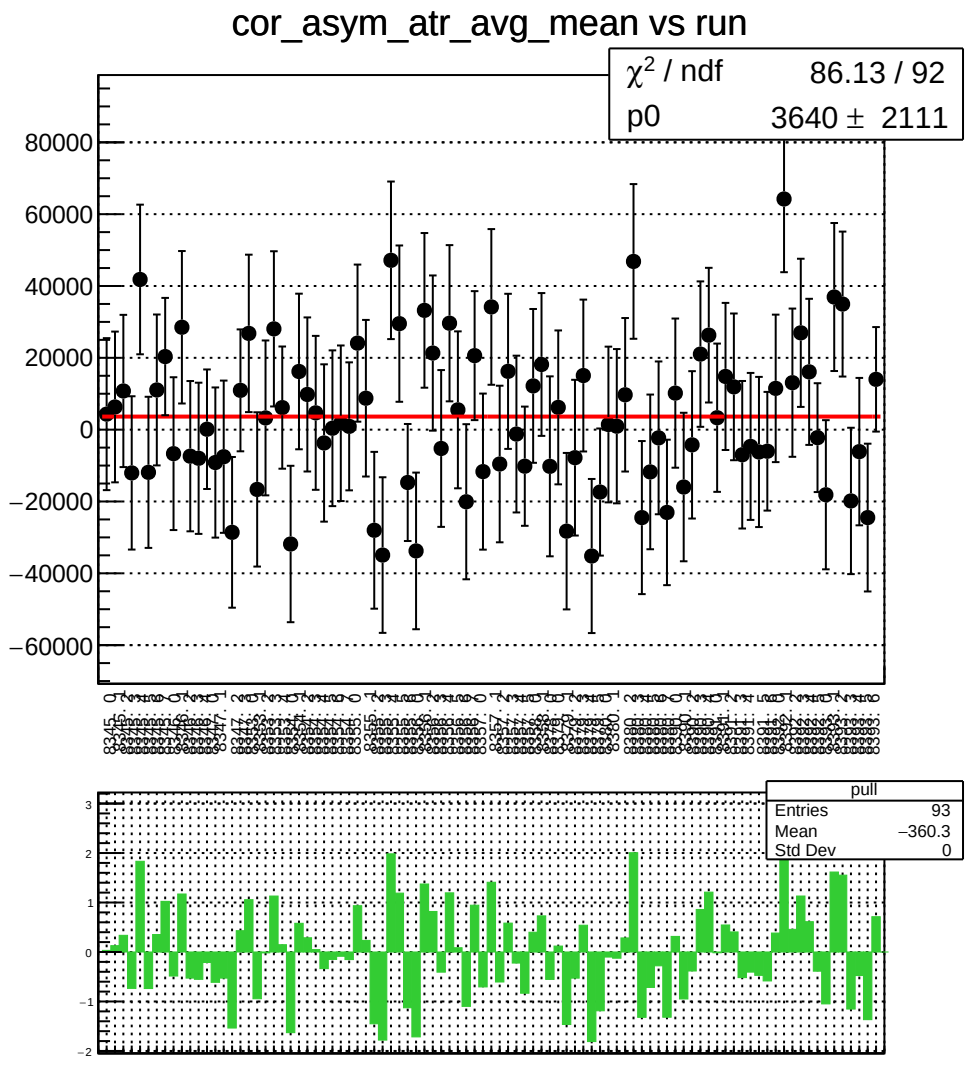

pull1D
Entries 93
Mean −0.001975
Std Dev 0.9623
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

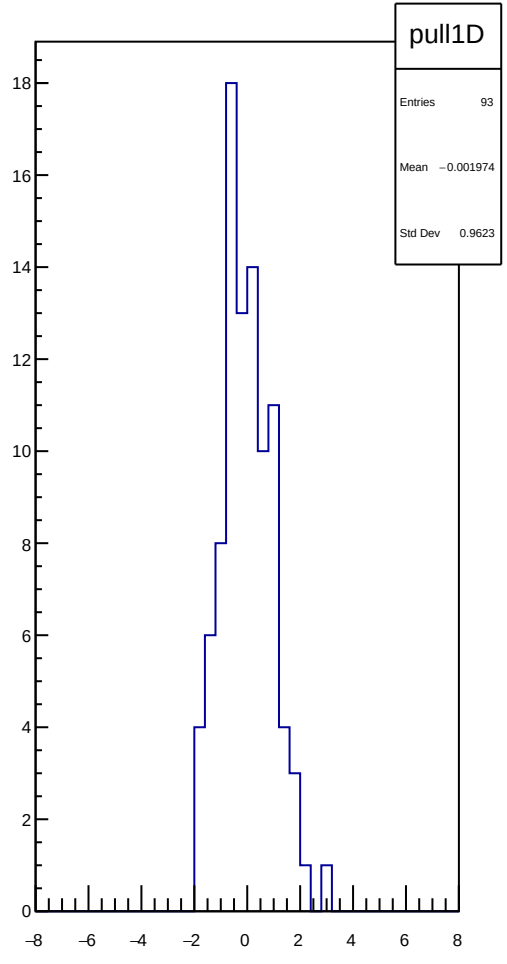

reg_asym_atr_avg_rms vs run
χ^2 / ndf 1152 / 92
p0 2013 ± 1.493
2100
2050
2000
1950
1900

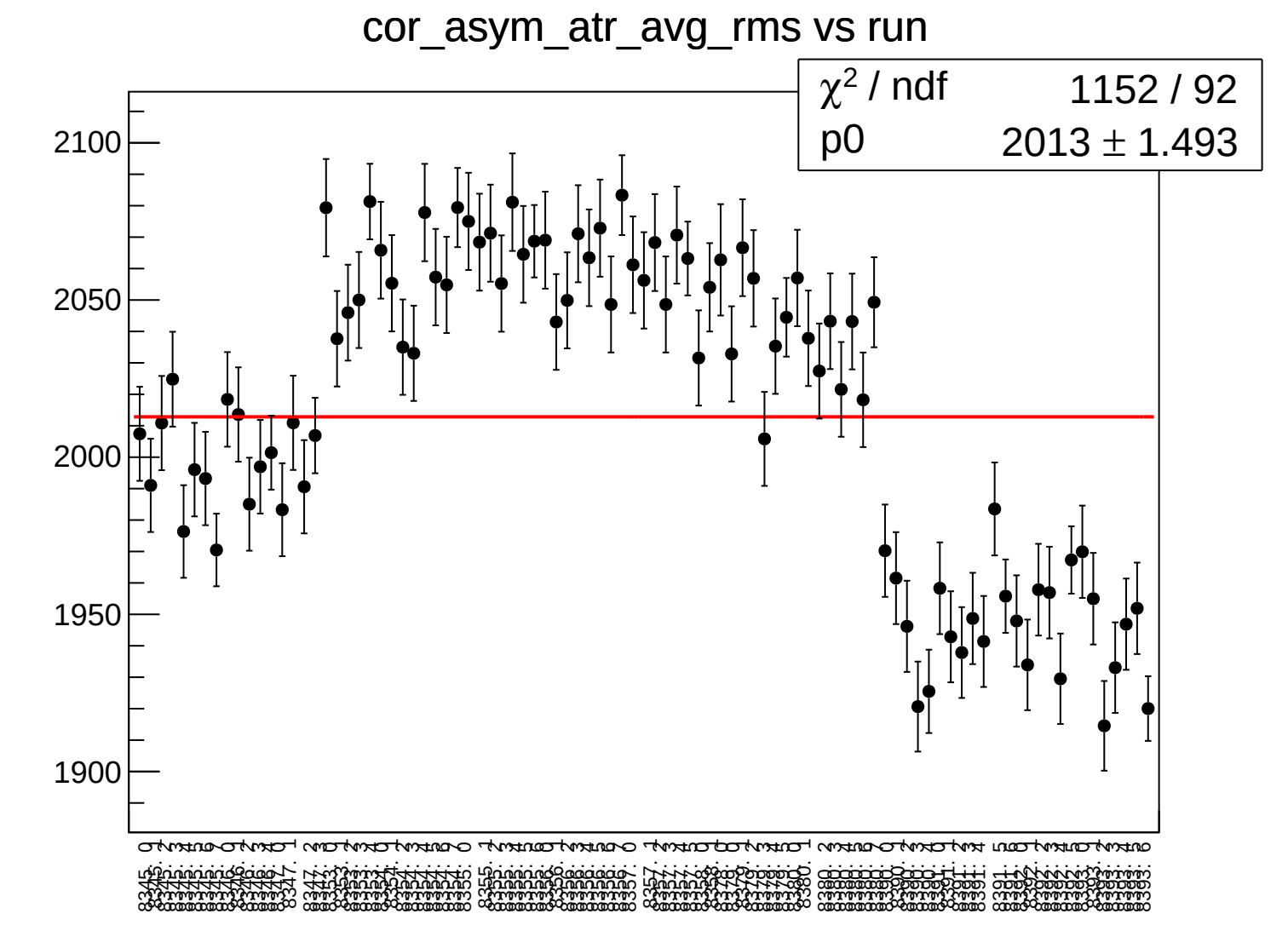

asym_atr_avg_reg_correction_mean vs run
×10^3
χ² / ndf 96.93 / 92
p0 1.583e+04 ± 7712
300
200
100
0
−100
−200
−300
pull
Entries 93
Mean −120.4
Std Dev 0
3
2
1
0
−1
−2

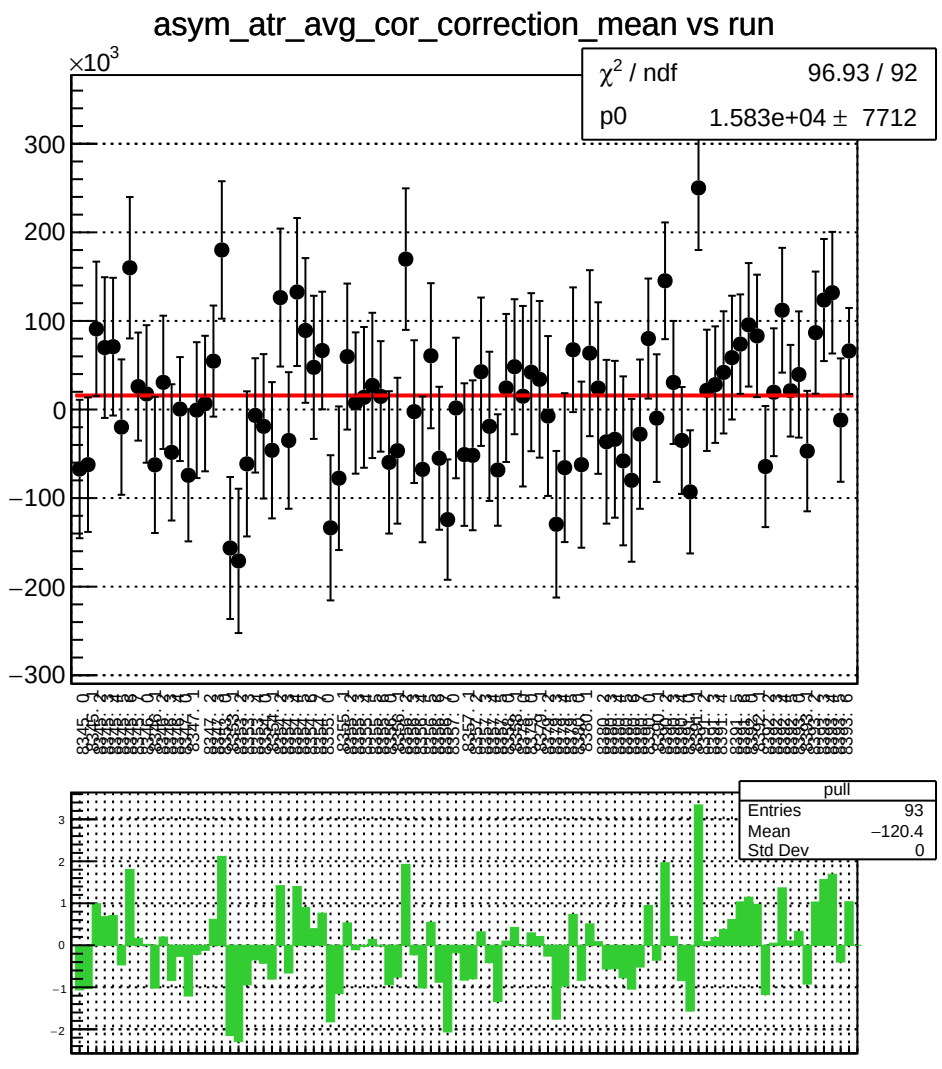

pull1D
Entries 93
Mean −0.03084
Std Dev 1.02
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

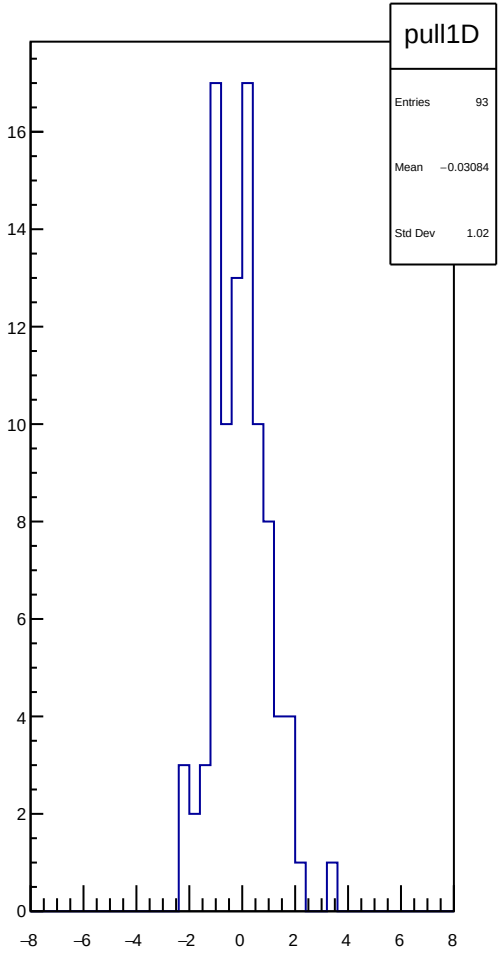

asym_atr_avg_reg_correction_rms vs run
χ² / ndf 1.559e+04 / 92
p0 7323 ± 5.453
9500
9000
8500
8000
7500
7000
6500
6000

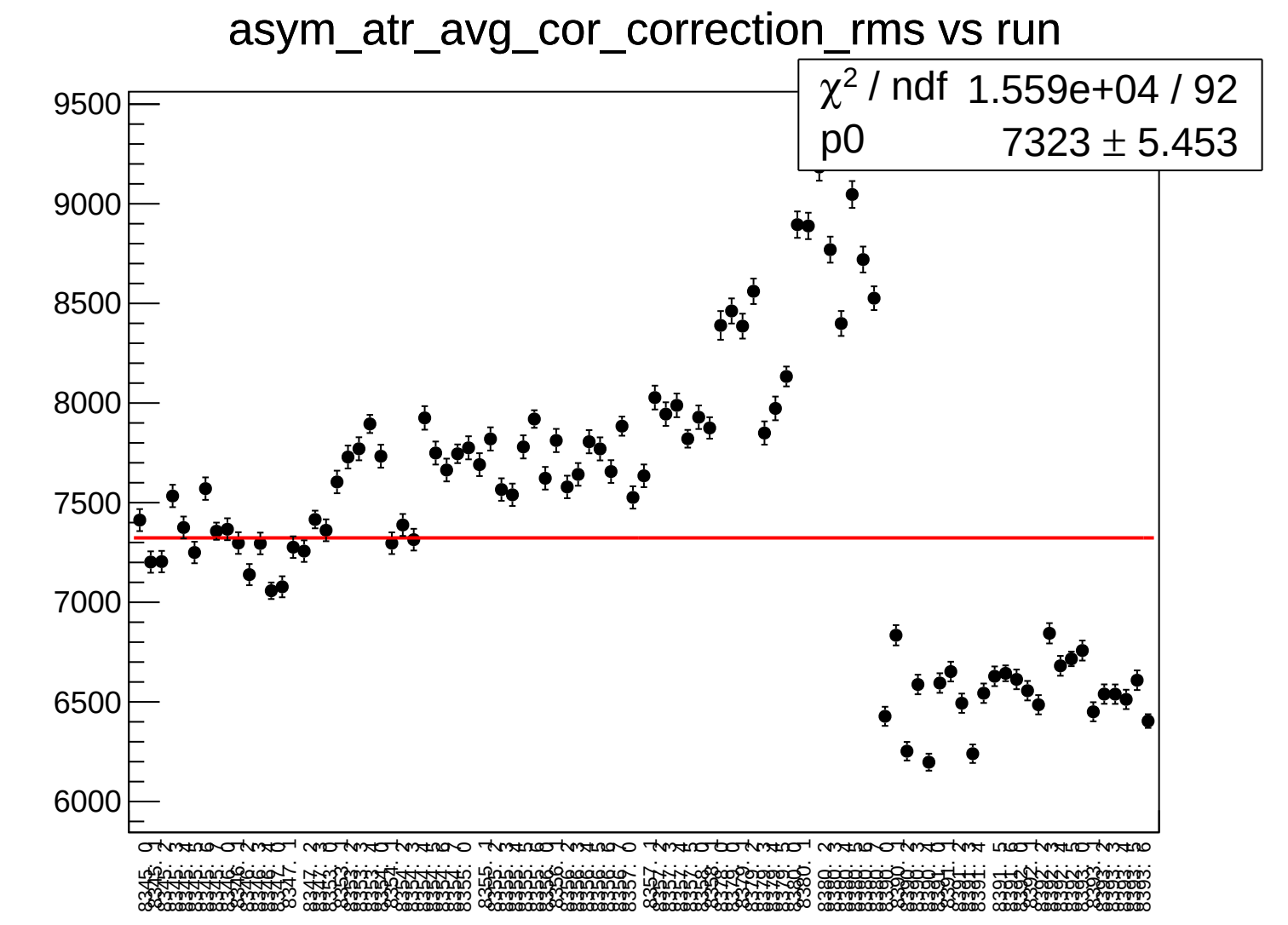

cor_asym_atr_avg_mean vs run
χ² / ndf 86.13 / 92
p0 3640 ± 2111
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −360.3
Std Dev 0
3
2
1
0
−1
−2

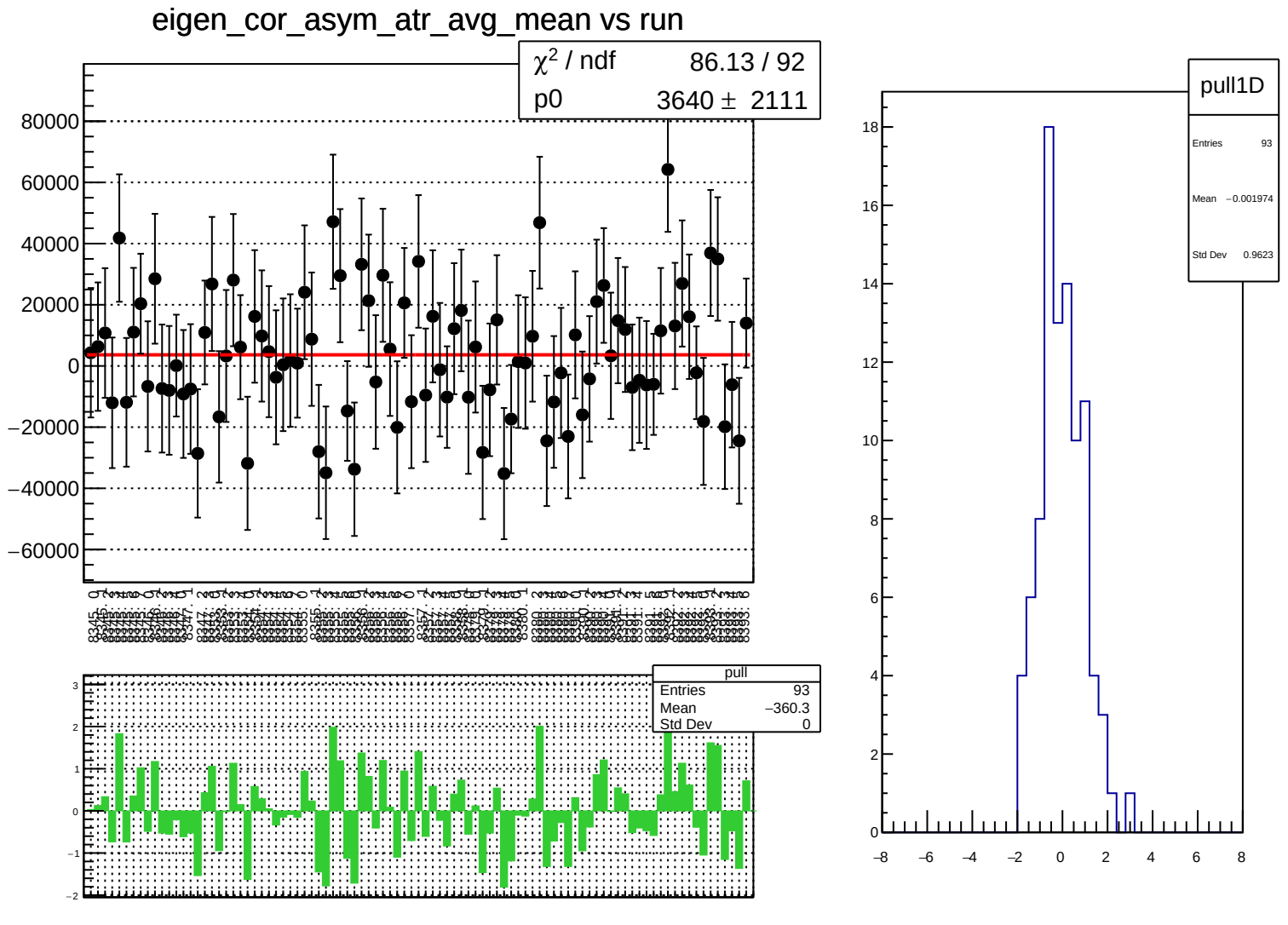

pull1D
Entries 93
Mean −0.001974
Std Dev 0.9623
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

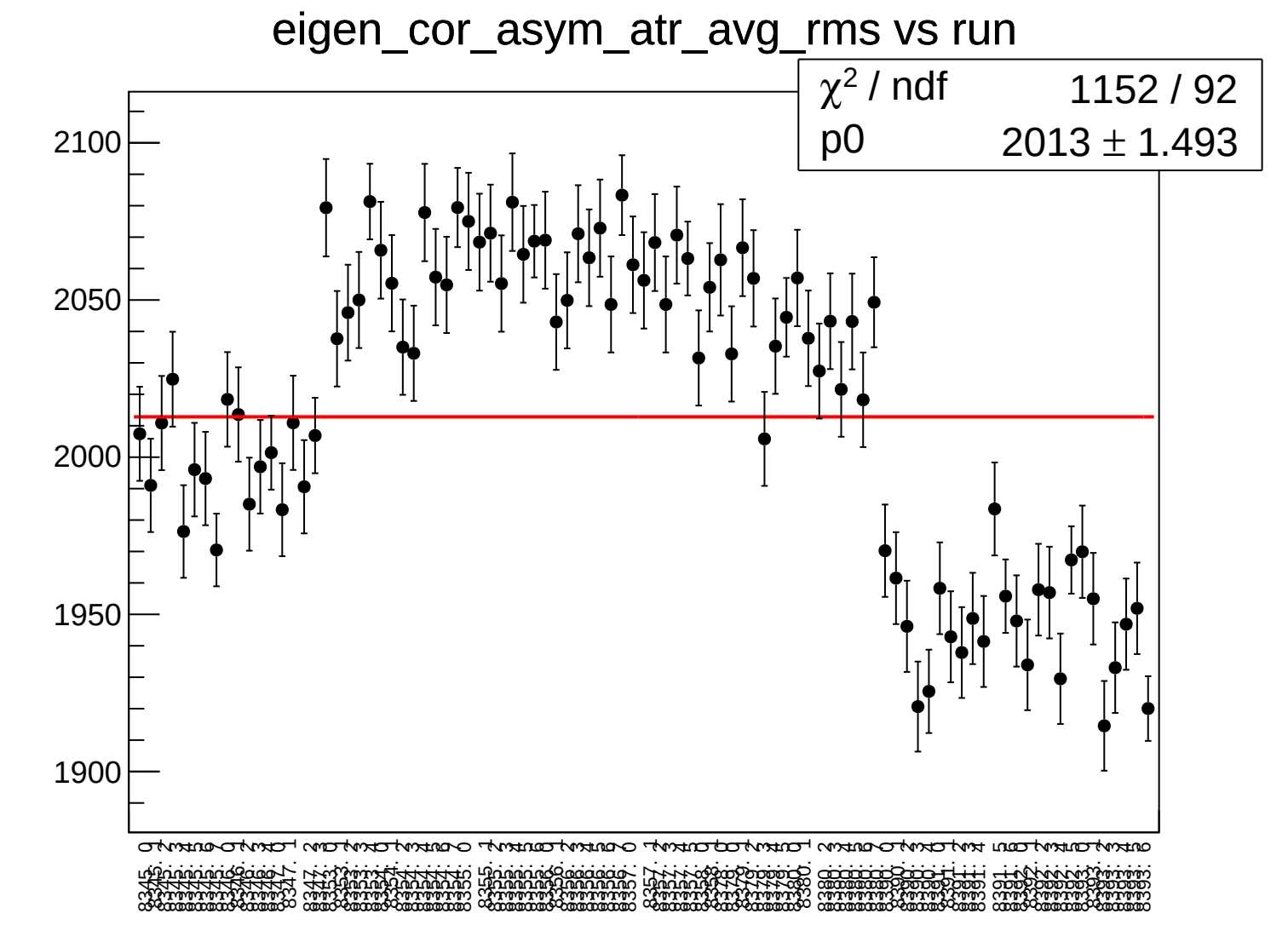

cor_asym_atr_avg_rms vs run
χ^2 / ndf 1152 / 92
p0 2013 ± 1.493
2100
2050
2000
1950
1900

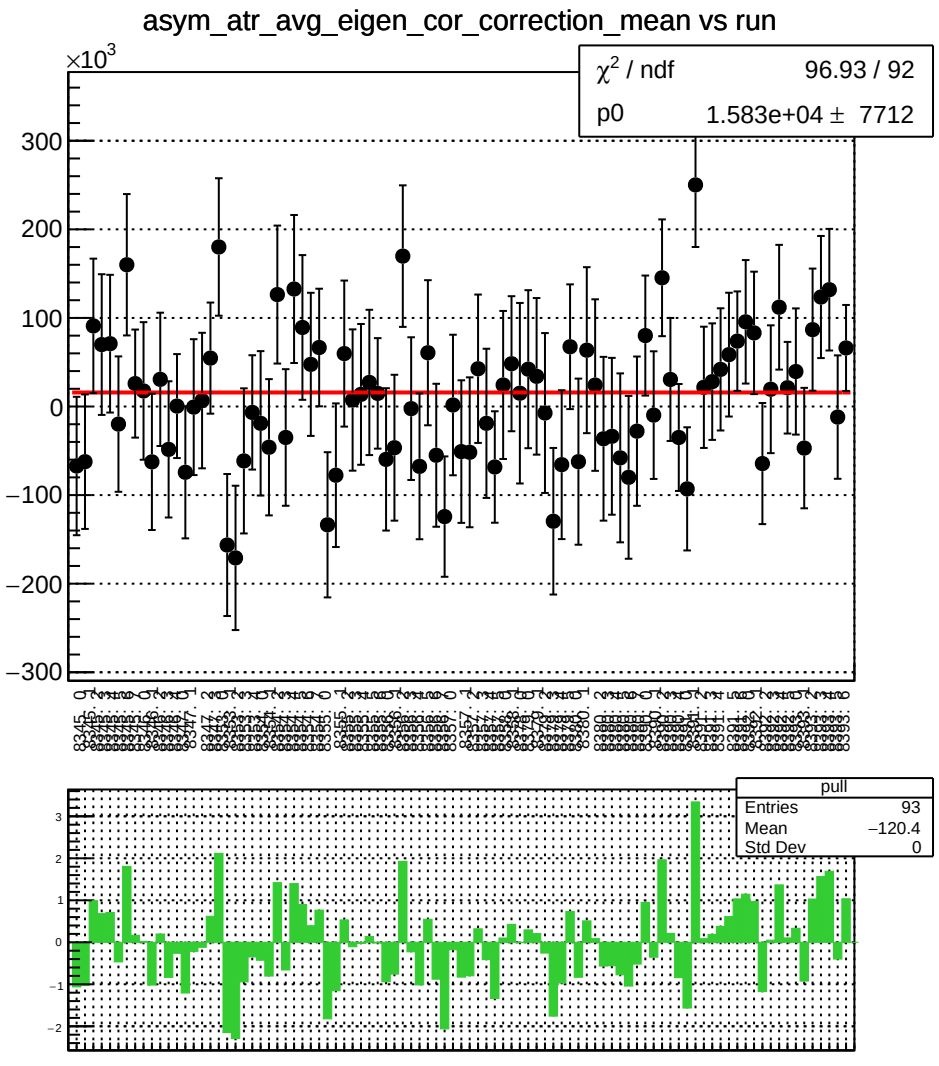

asym_atr_avg_cor_correction_mean vs run
×10^3
χ² / ndf 96.93 / 92
p0 1.583e+04 ± 7712
300
200
100
0
−100
−200
−300
pull
Entries 93
Mean −120.4
Std Dev 0
3
2
1
0
−1
−2

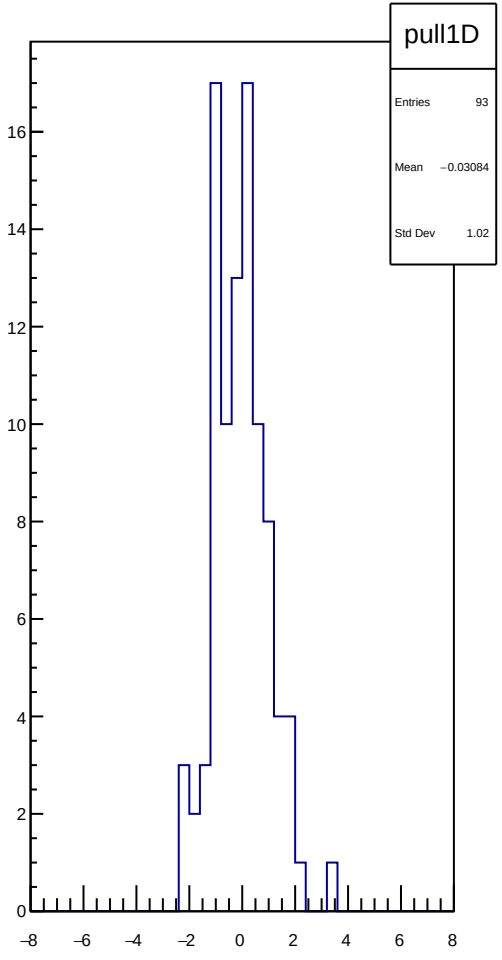

pull1D
Entries 93
Mean −0.03084
Std Dev 1.02
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

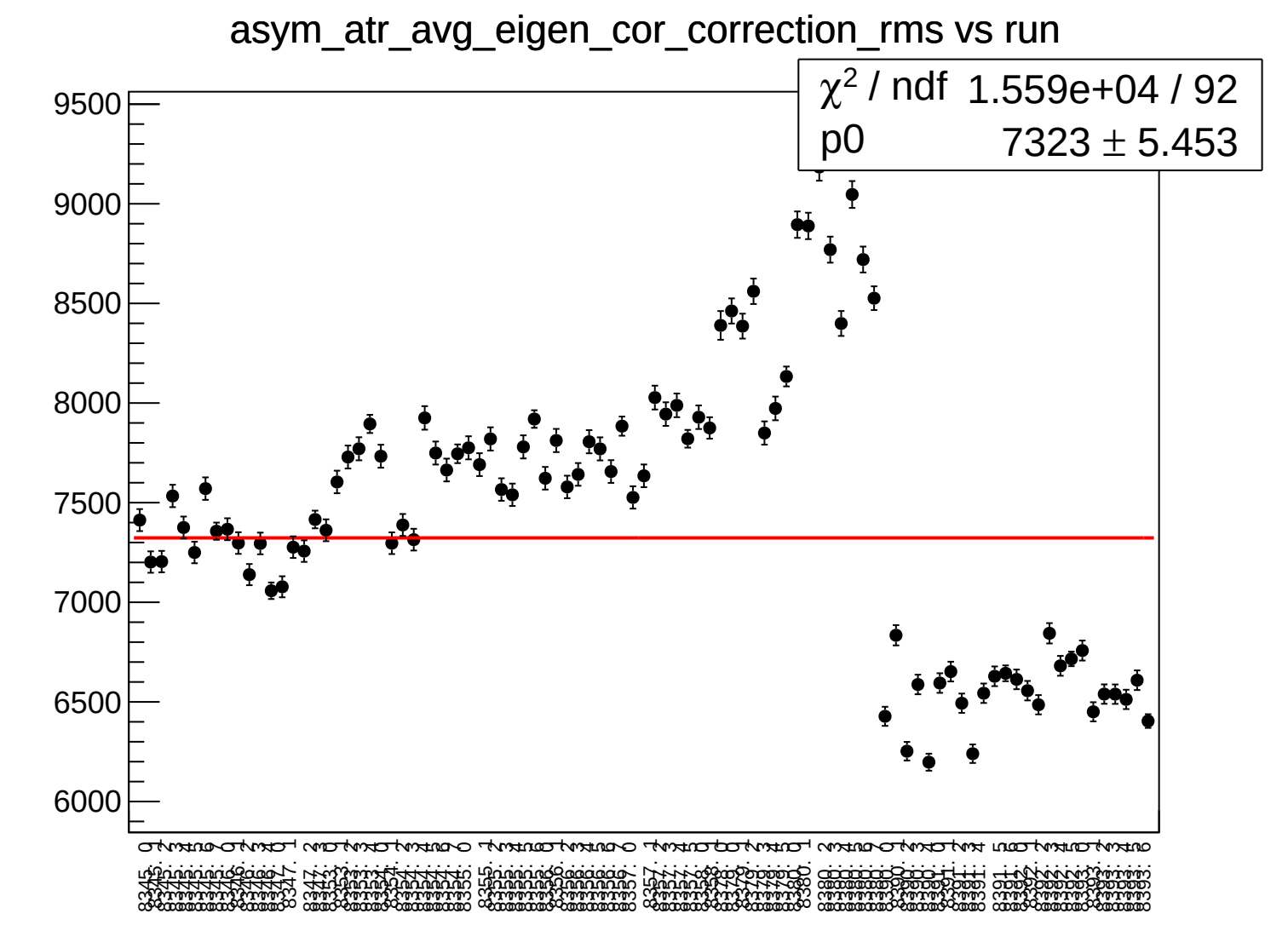

asym_atr_avg_cor_correction_rms vs run
χ² / ndf 1.559e+04 / 92
p0 7323 ± 5.453
9500
9000
8500
8000
7500
7000
6500
6000

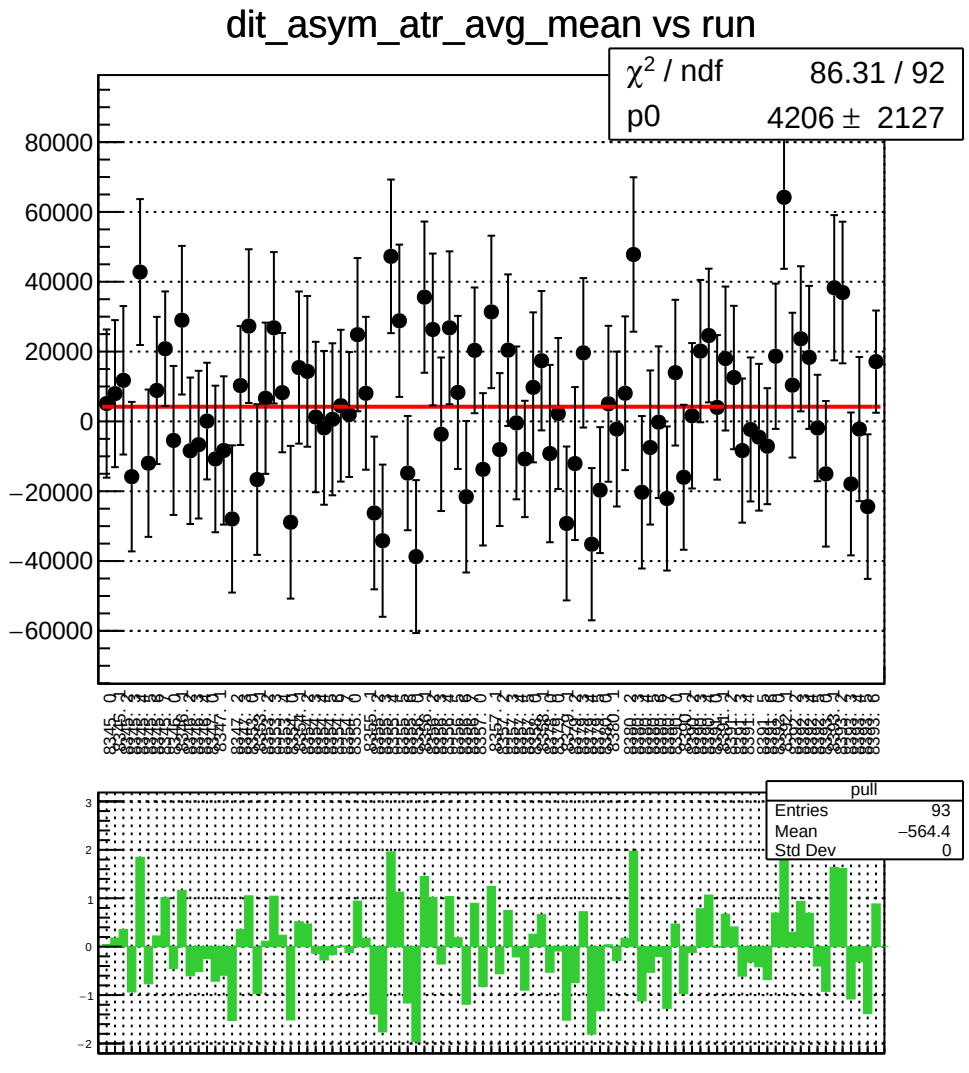

eigen_cor_asym_atr_avg_mean vs run
χ² / ndf 86.13 / 92
p0 3640 ± 2111
pull
Entries 93
Mean −360.3
Std Dev 0
pull1D
Entries 93
Mean −0.001974
Std Dev 0.9623

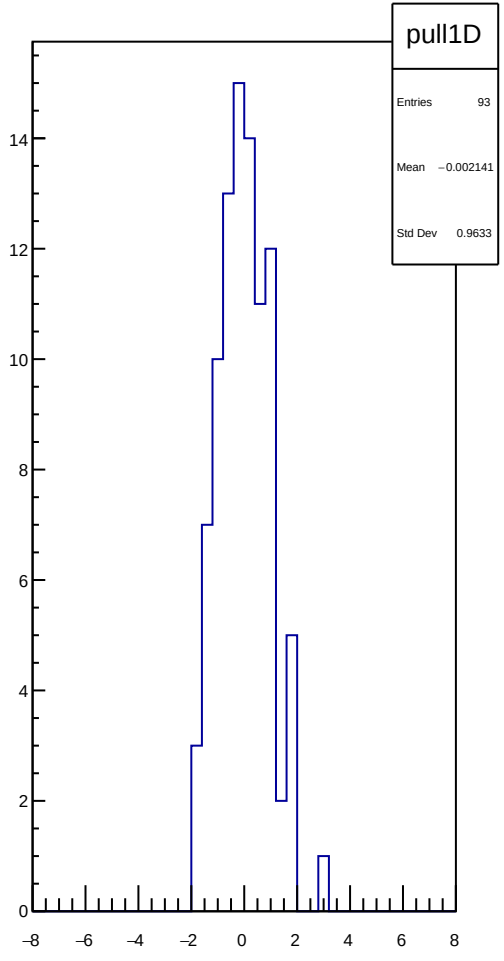

eigen_cor_asym_atr_avg_rms vs run
χ² / ndf 1152 / 92
p0 2013 ± 1.493
2100
2050
2000
1950
1900

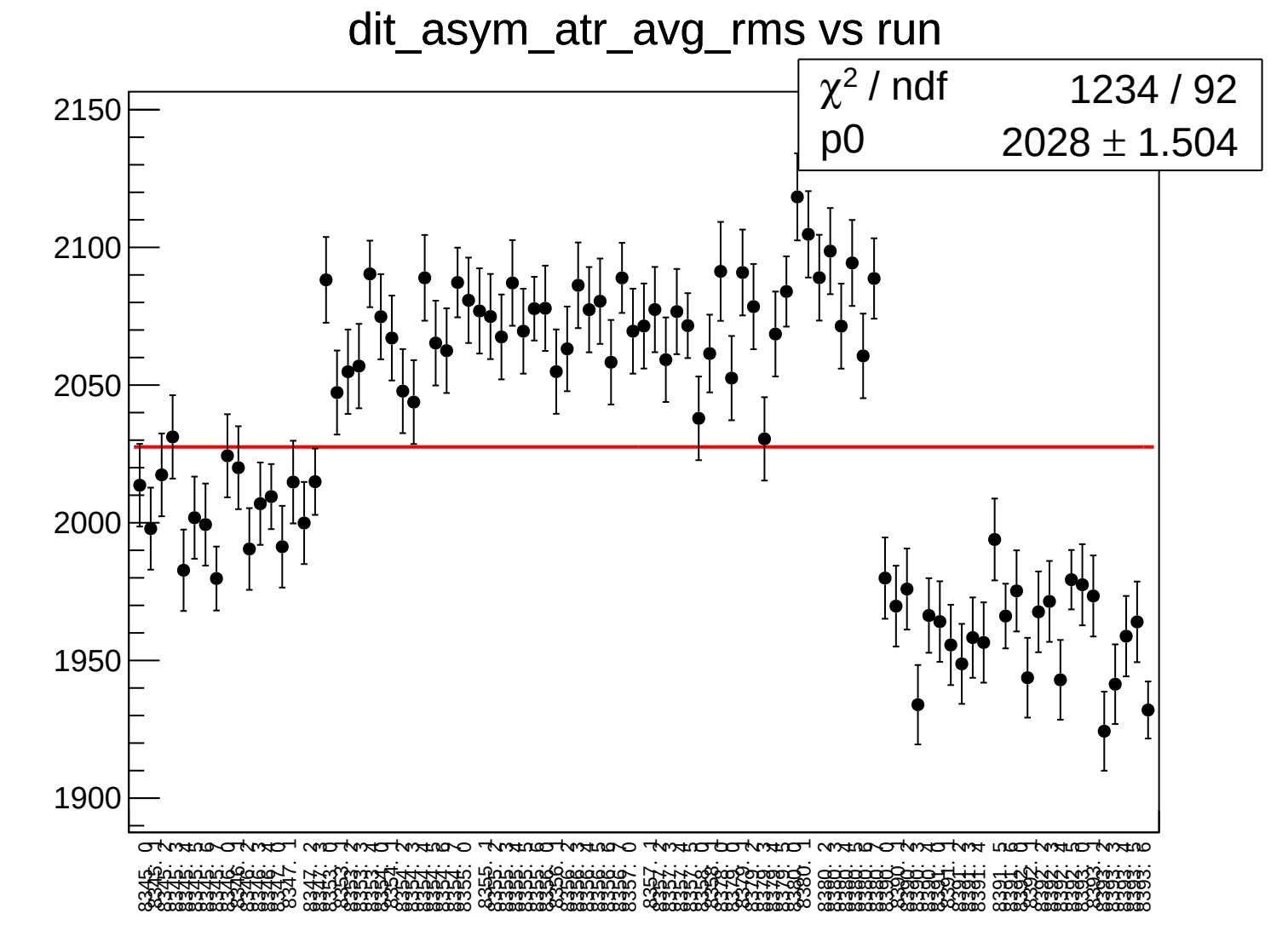

asym_atr_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 96.93 / 92
p0 1.583e+04 ± 7712
300
200
100
0
−100
−200
−300
pull
Entries 93
Mean −120.4
Std Dev 0
3
2
1
0
−1
−2

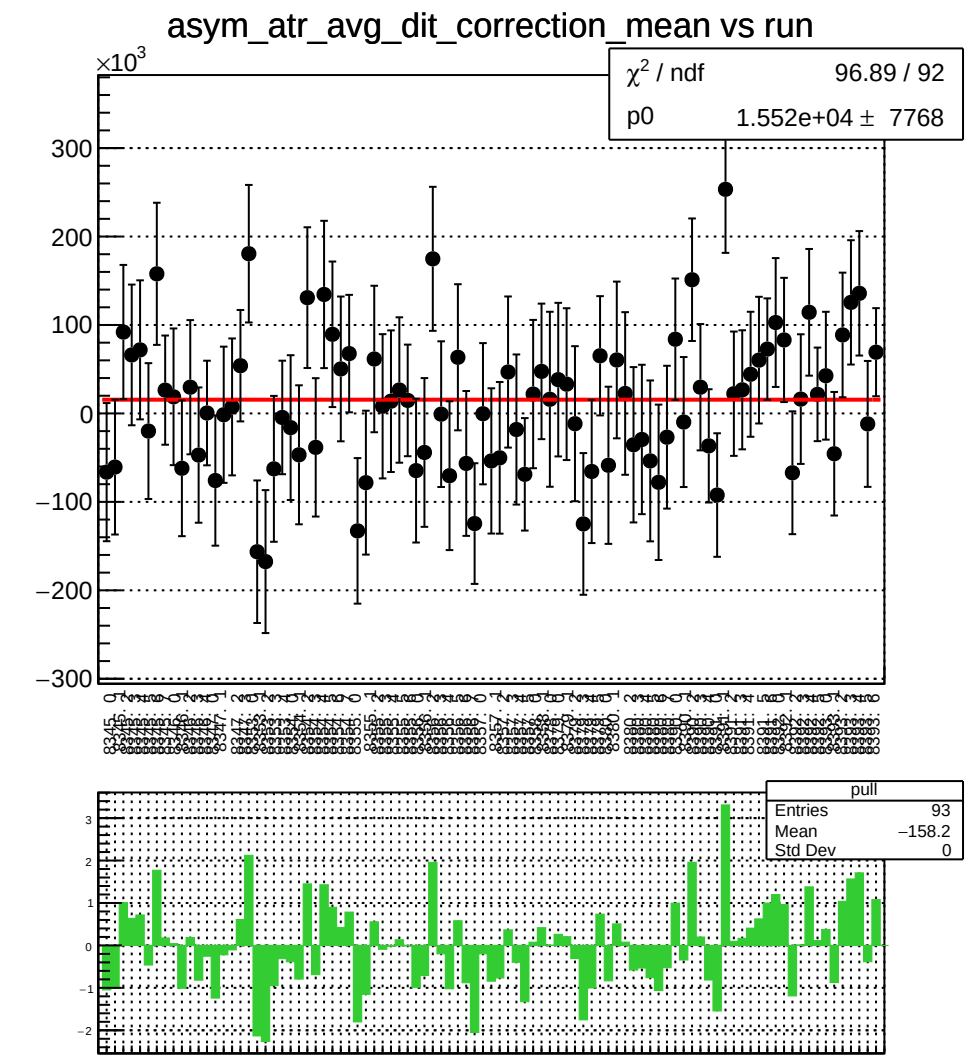

pull1D
Entries 93
Mean −0.03084
Std Dev 1.02
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

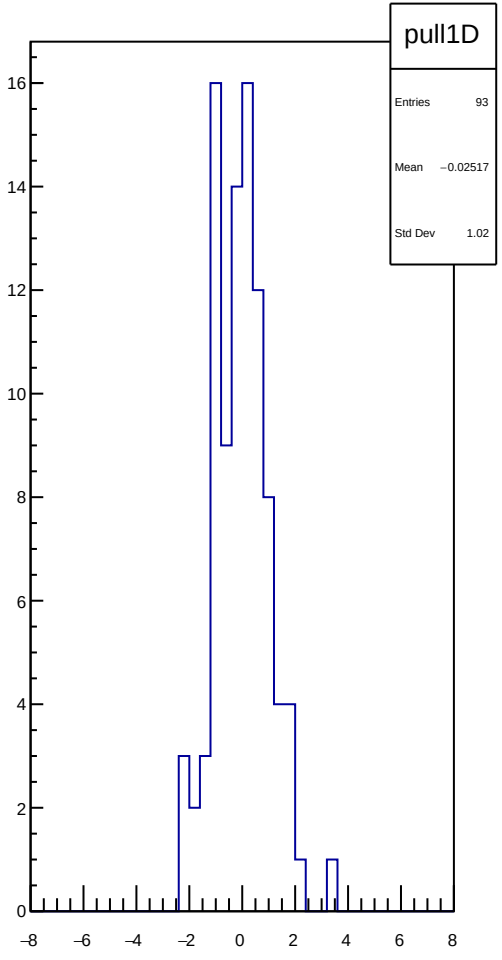

asym_atr_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.559e+04 / 92
p0 7323 ± 5.453
9500
9000
8500
8000
7500
7000
6500
6000

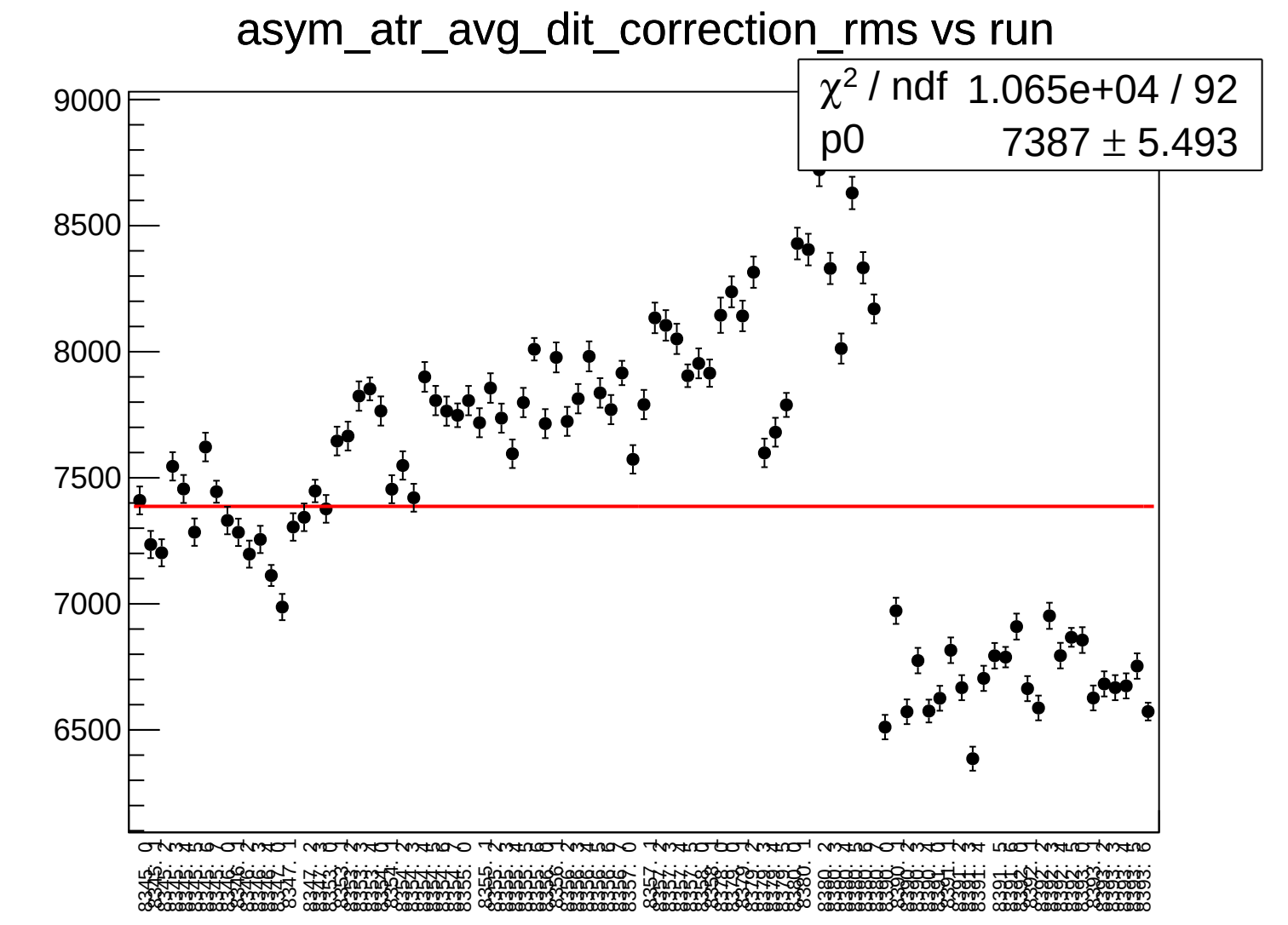

dit_asym_atr_avg_mean vs run
χ² / ndf 86.31 / 92
p0 4206 ± 2127
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −564.4
Std Dev 0
3
2
1
0
−1
−2

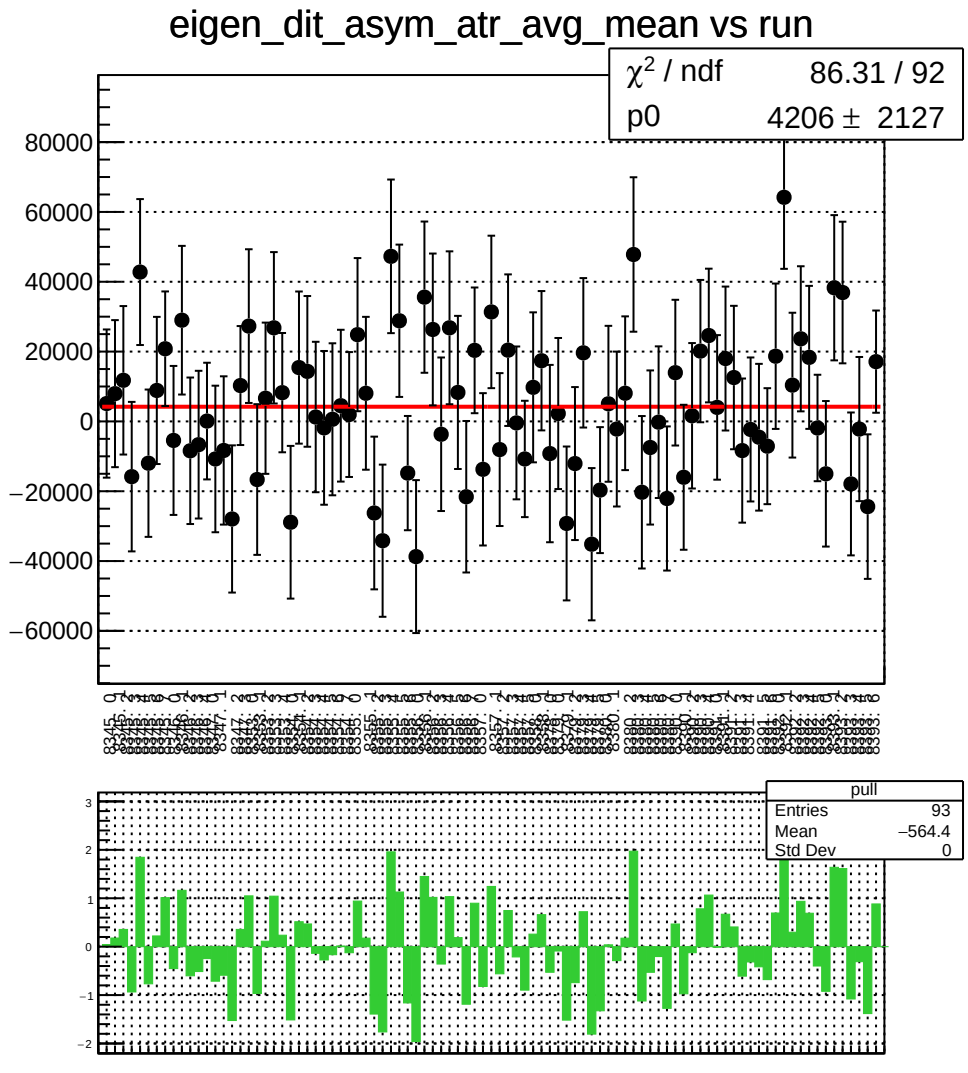

pull1D
Entries 93
Mean −0.002141
Std Dev 0.9633
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

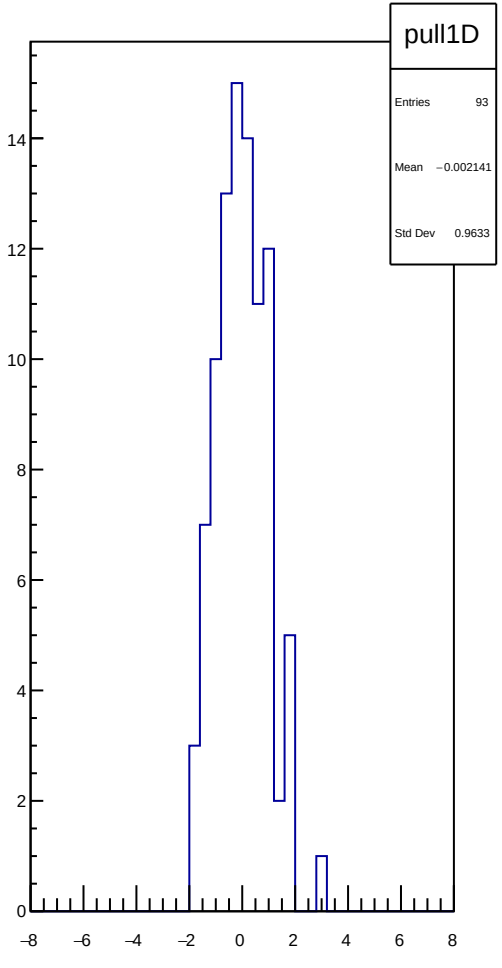

dit_asym_atr_avg_rms vs run
χ² / ndf 1234 / 92
p0 2028 ± 1.504
2150
2100
2050
2000
1950
1900

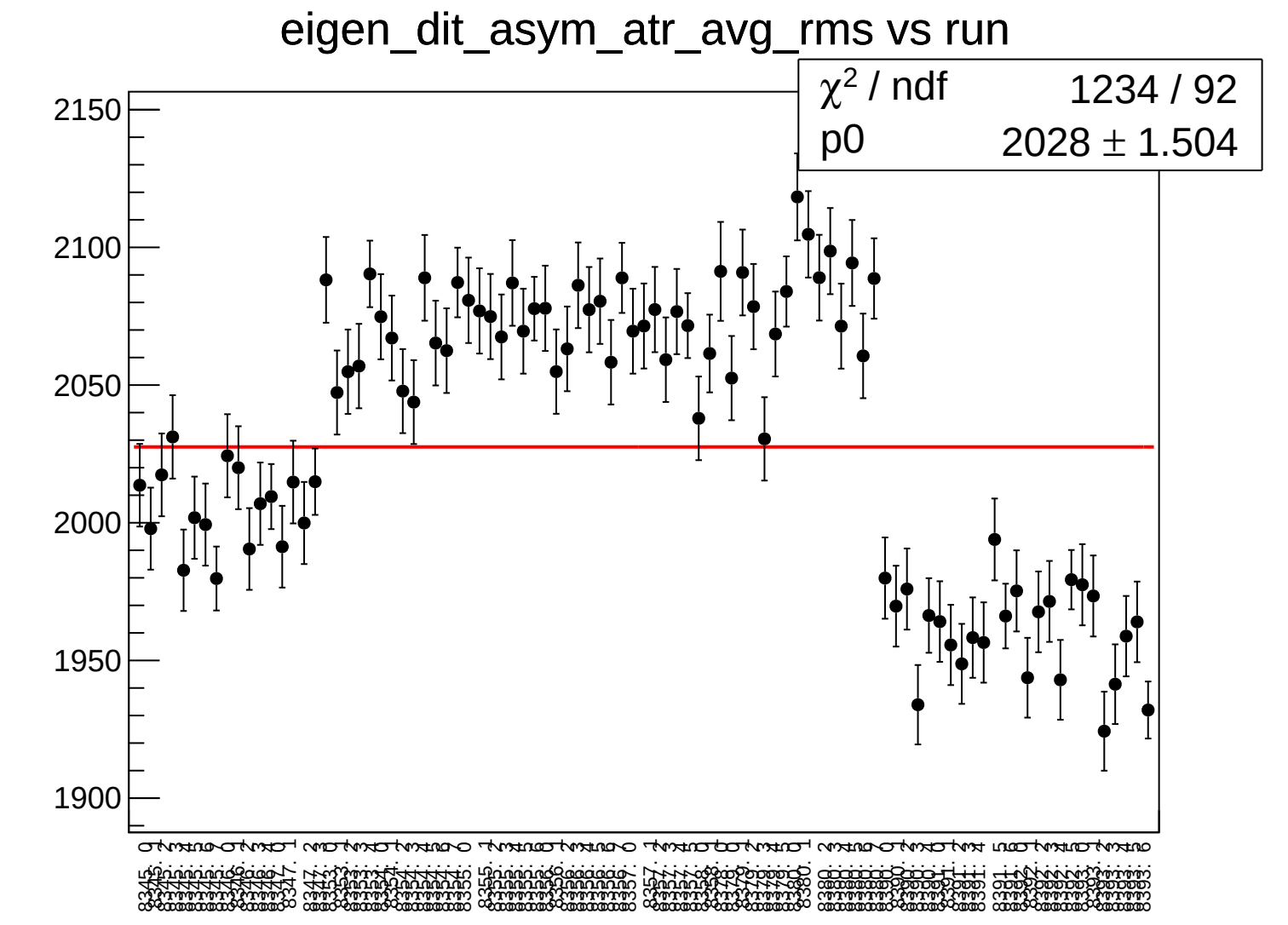

asym_atr_avg_dit_correction_mean vs run
×10^3
χ² / ndf 96.89 / 92
p0 1.552e+04 ± 7768
300
200
100
0
−100
−200
−300
pull
Entries 93
Mean −158.2
Std Dev 0
3
2
1
0
−1
−2

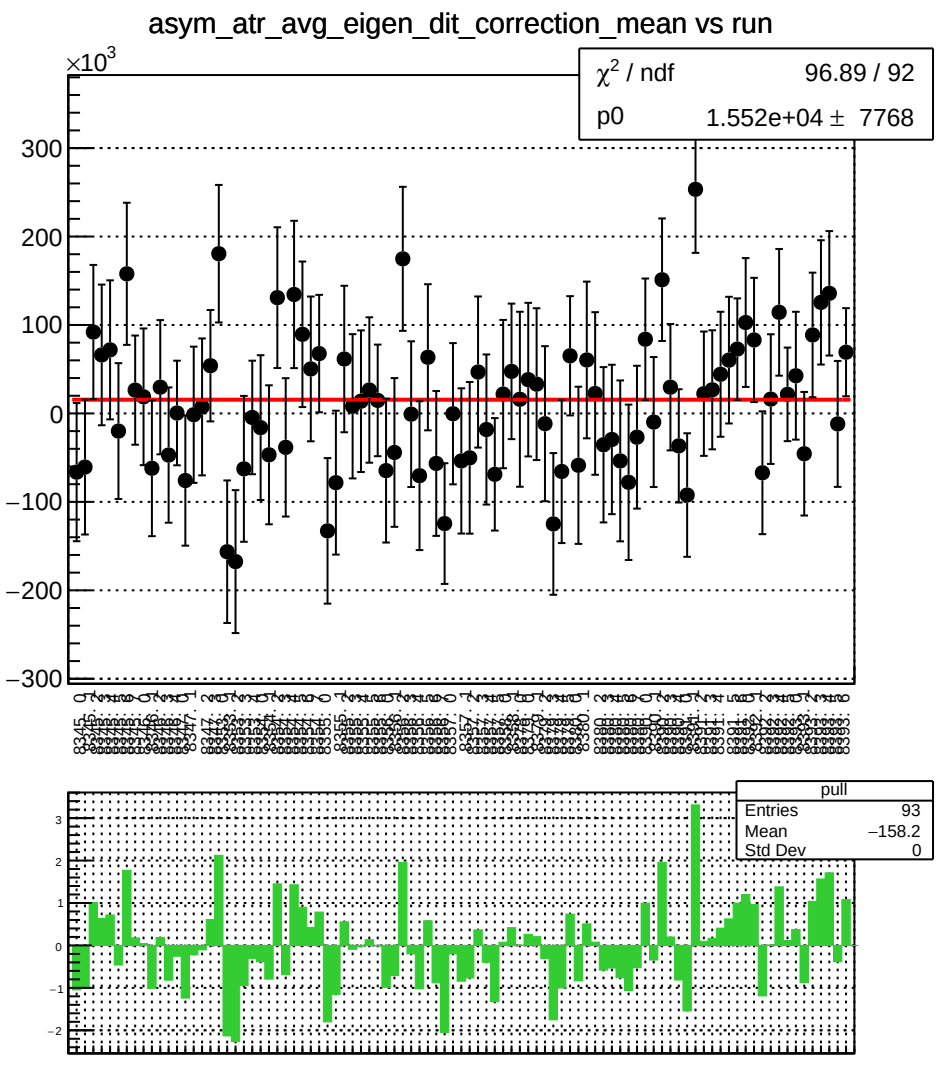

pull1D
Entries 93
Mean −0.02517
Std Dev 1.02
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

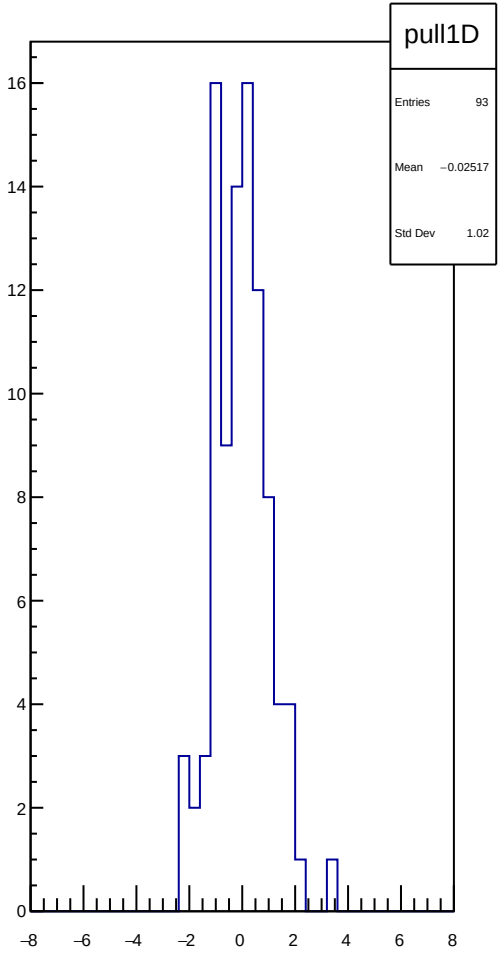

asym_atr_avg_dit_correction_rms vs run
χ² / ndf 1.065e+04 / 92
p0 7387 ± 5.493
9000
8500
8000
7500
7000
6500

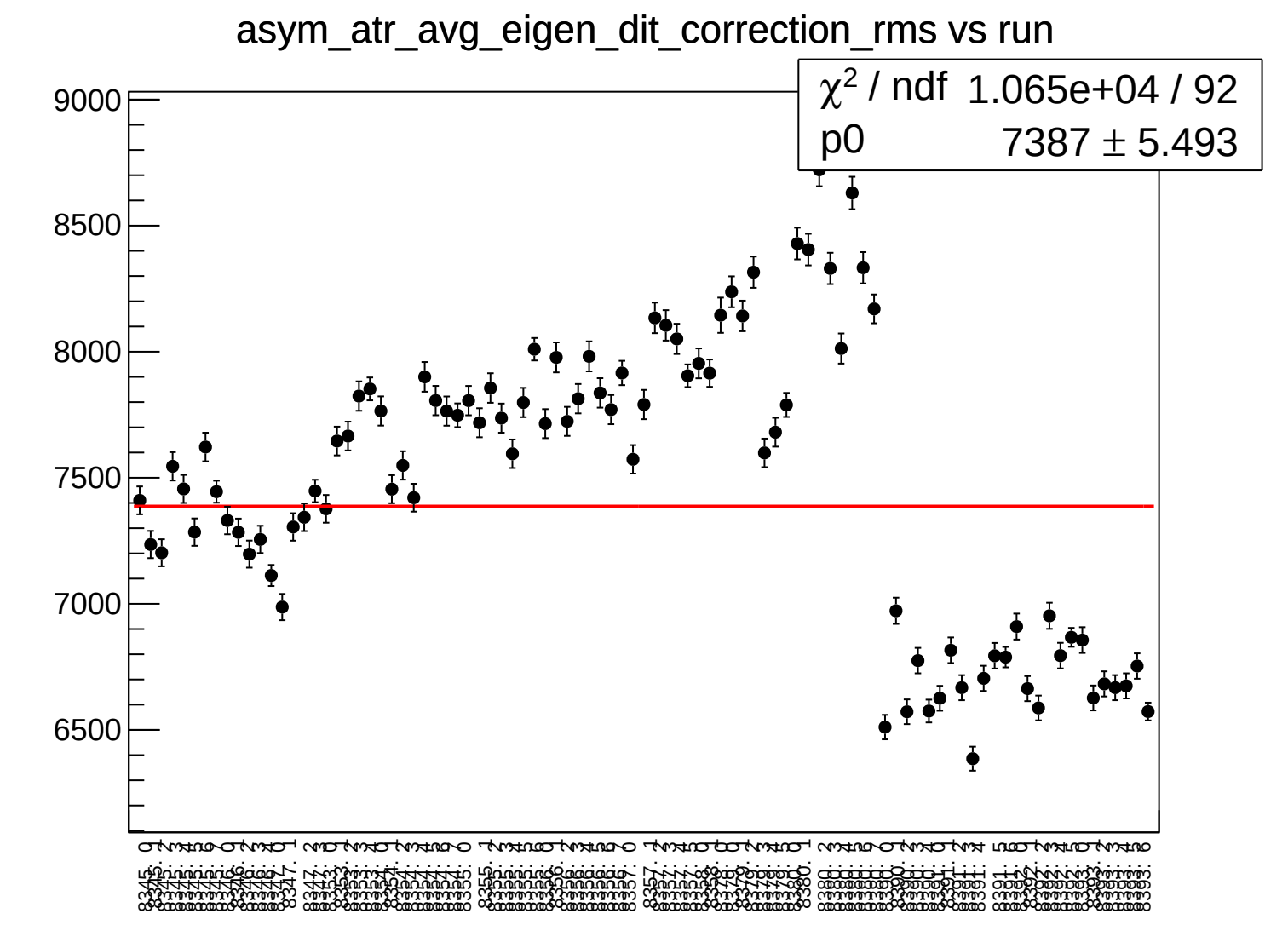

eigen_dit_asym_atr_avg_mean vs run
χ² / ndf 86.31 / 92
p0 4206 ± 2127
pull
Entries 93
Mean −564.4
Std Dev 0

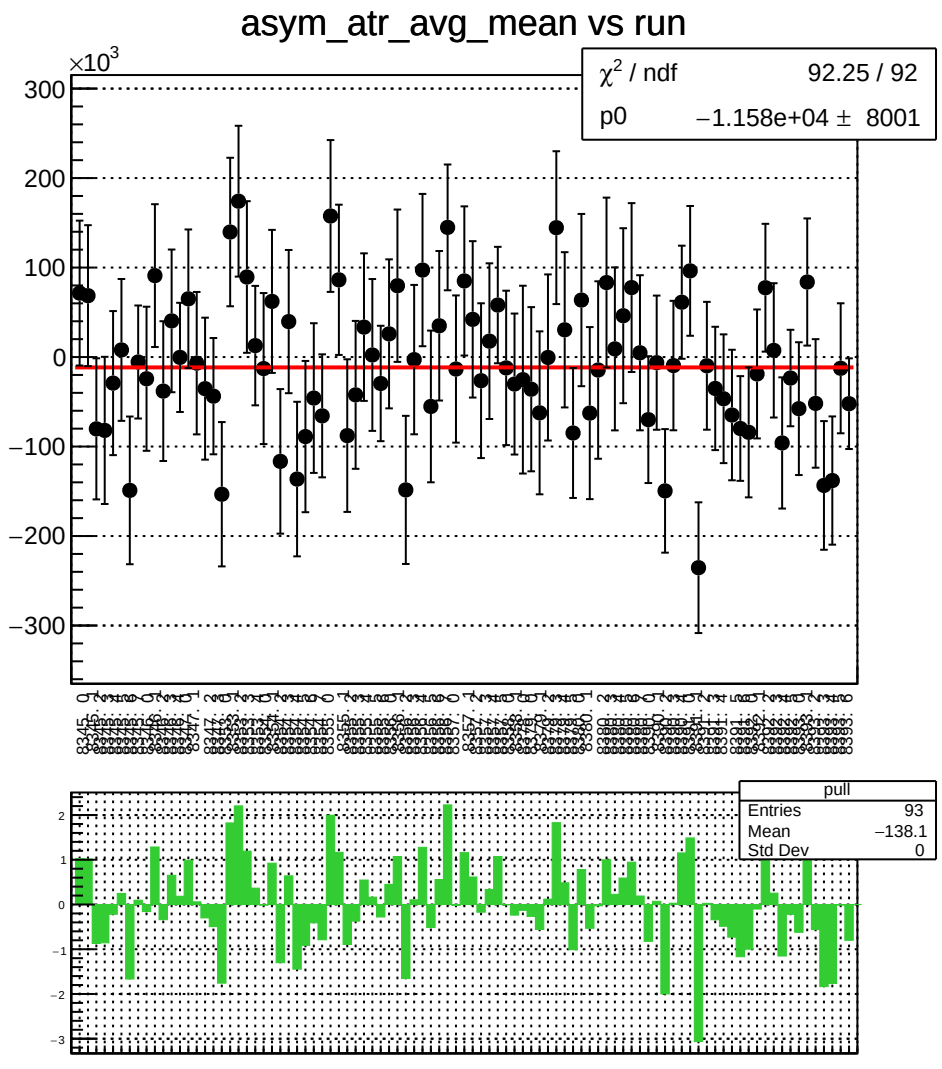

pull1D
Entries 93
Mean −0.002141
Std Dev 0.9633

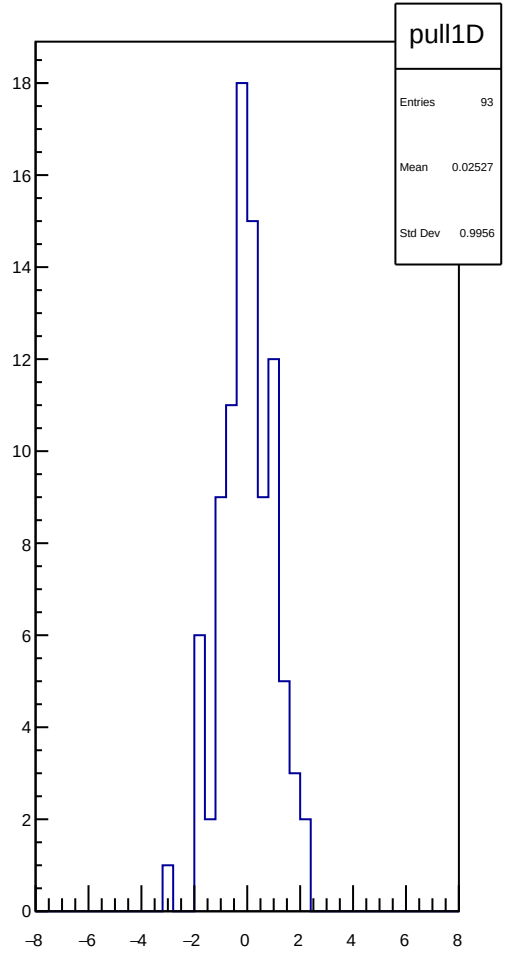

eigen_dit_asym_atr_avg_rms vs run
χ² / ndf 1234 / 92
p0 2028 ± 1.504
2150
2100
2050
2000
1950
1900

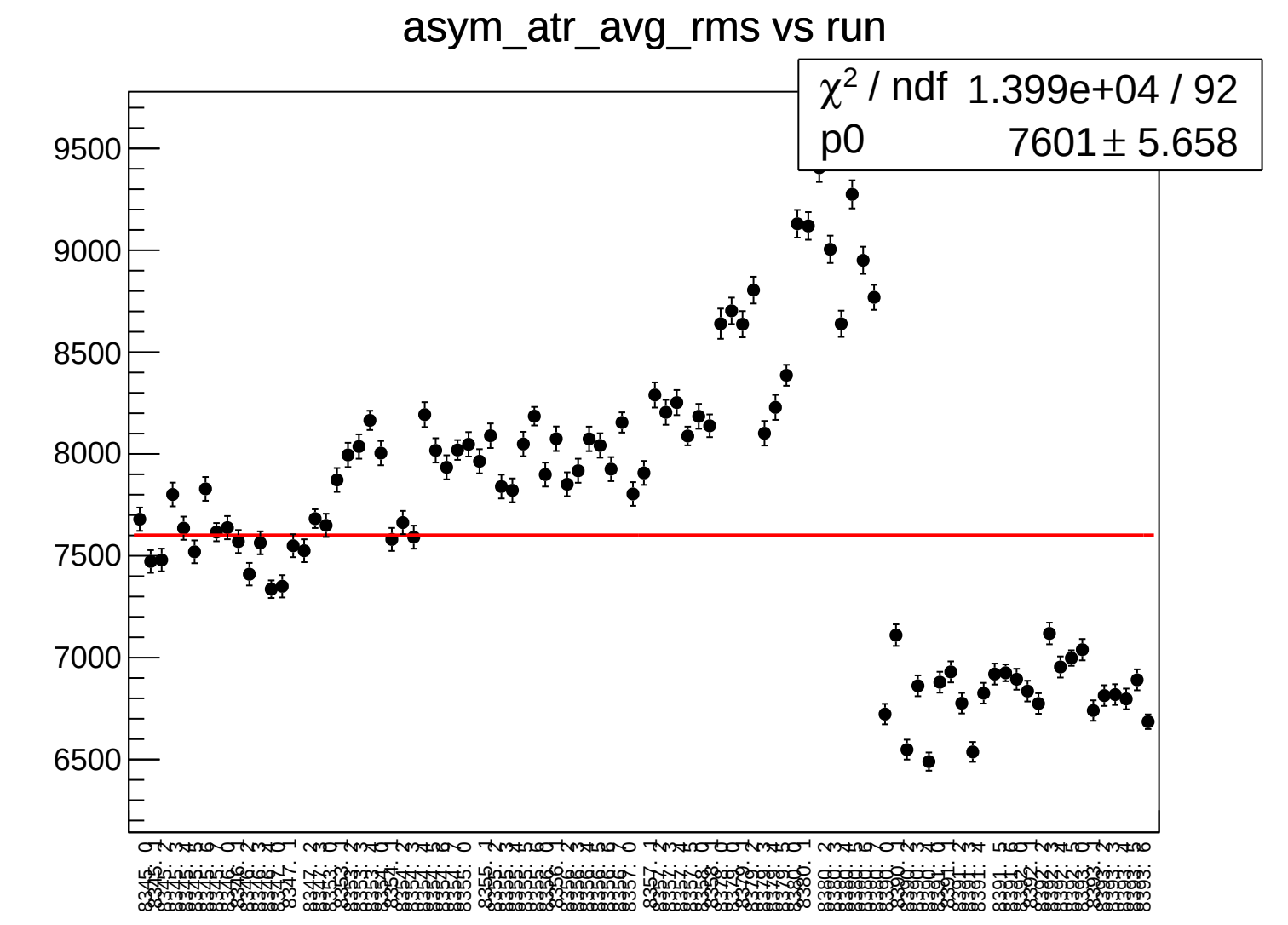

asym_atr_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 96.89 / 92
p0 1.552e+04 ± 7768
pull
Entries 93
Mean −158.2
Std Dev 0

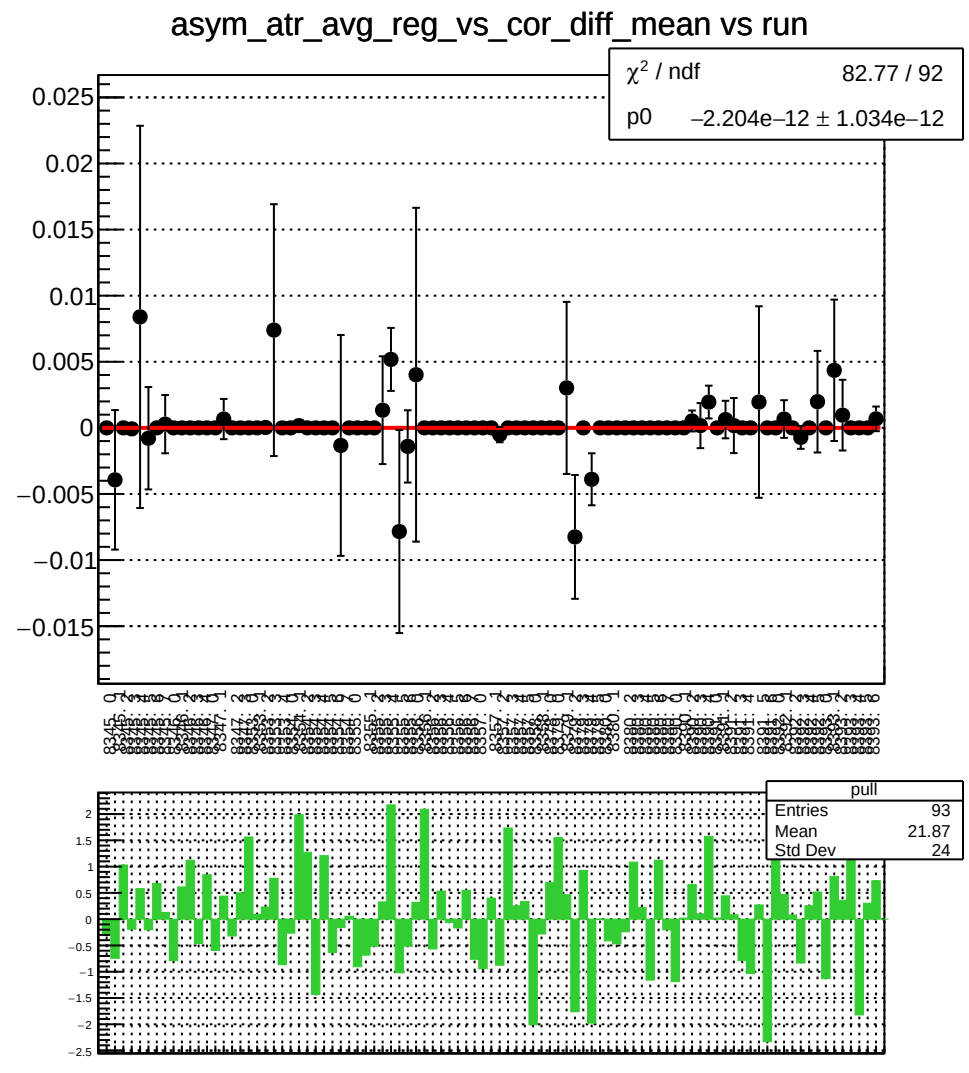

pull1D
Entries 93
Mean −0.02517
Std Dev 1.02

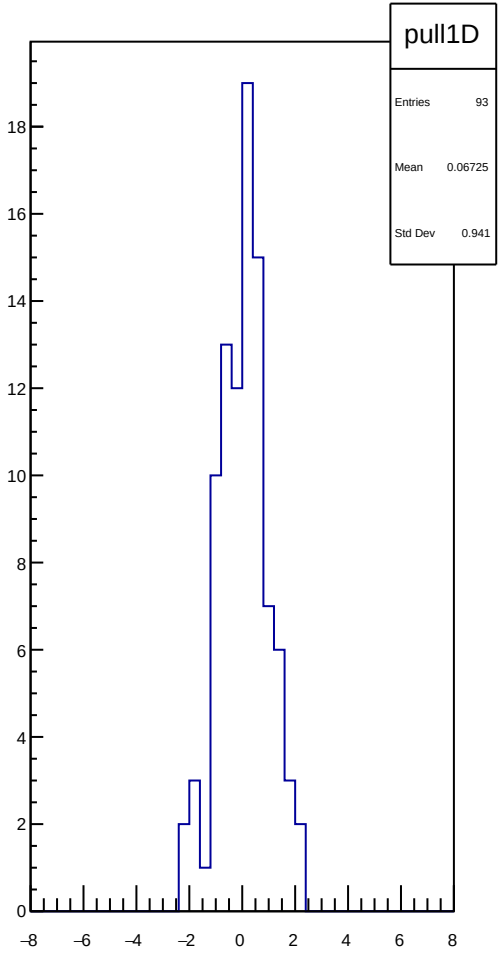

asym_atr_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.065e+04 / 92
p0 7387 ± 5.493
9000
8500
8000
7500
7000
6500

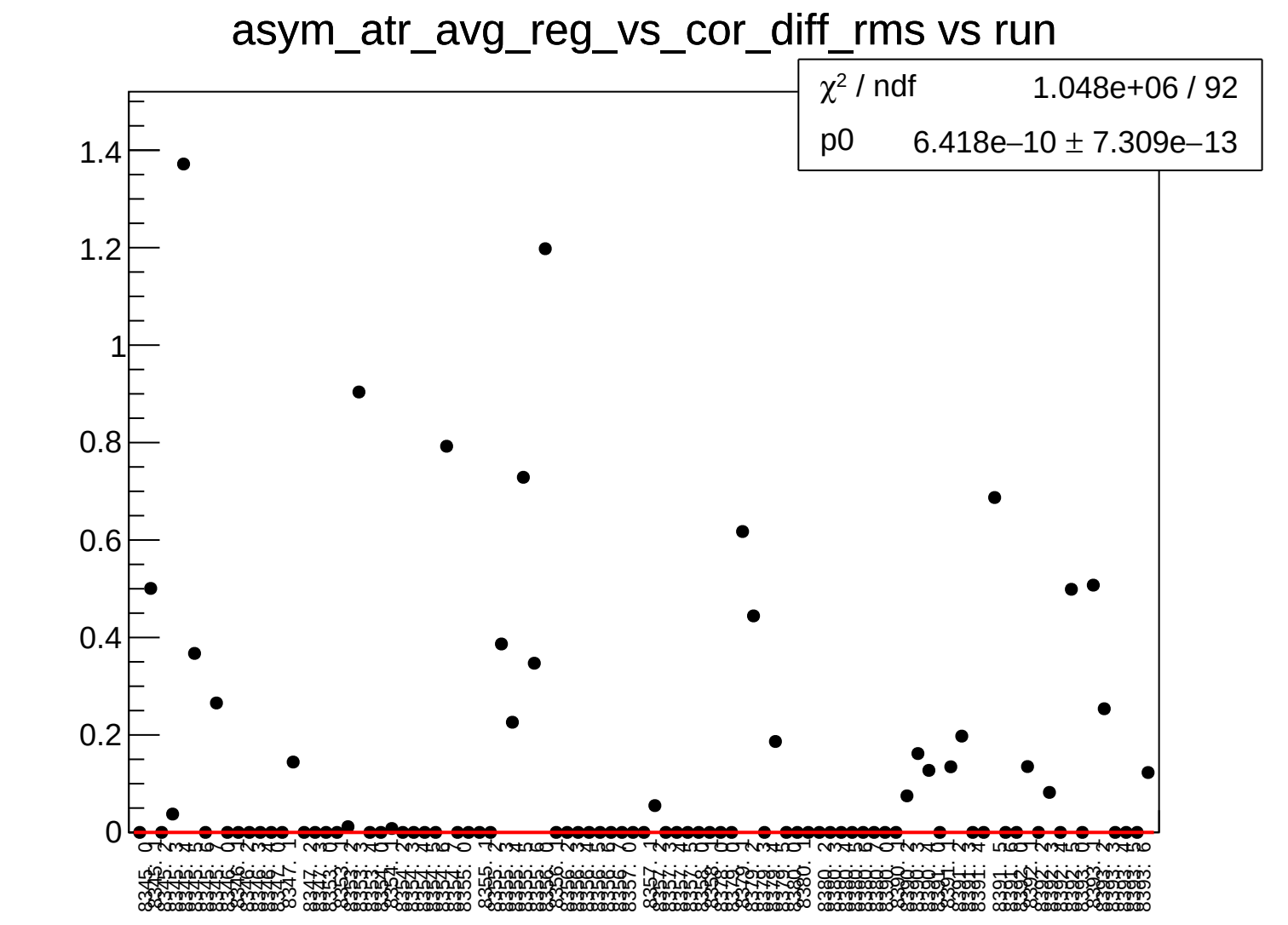

asym_atr_avg_mean vs run
×10^3
χ² / ndf 92.25 / 92
p0 −1.158e+04 ± 8001
pull
Entries 93
Mean −138.1
Std Dev 0

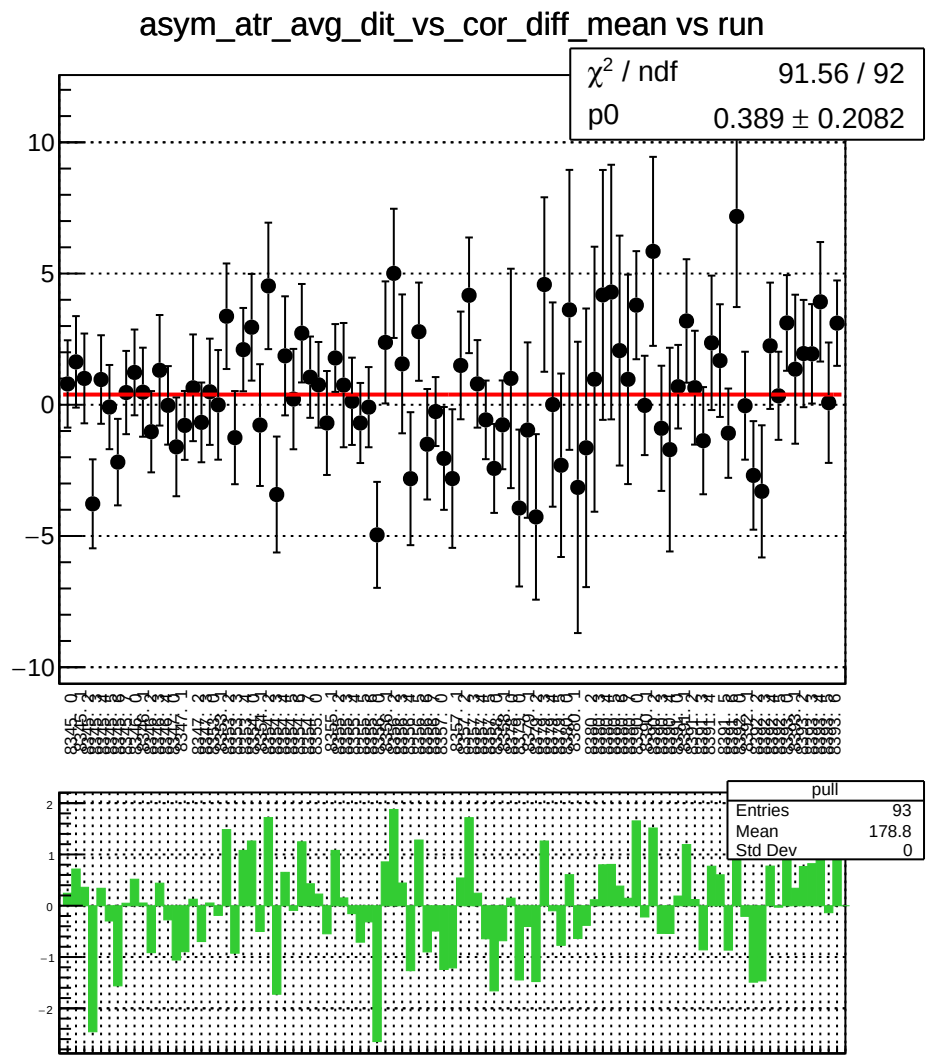

pull1D
Entries 93
Mean 0.02527
Std Dev 0.9956

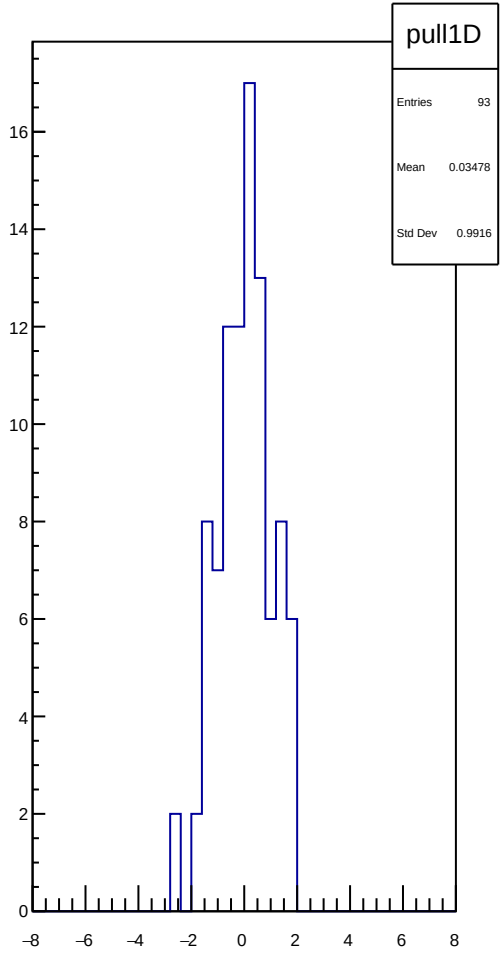

asym_atr_avg_rms vs run
χ² / ndf 1.399e+04 / 92
p0 7601 ± 5.658
9500
9000
8500
8000
7500
7000
6500

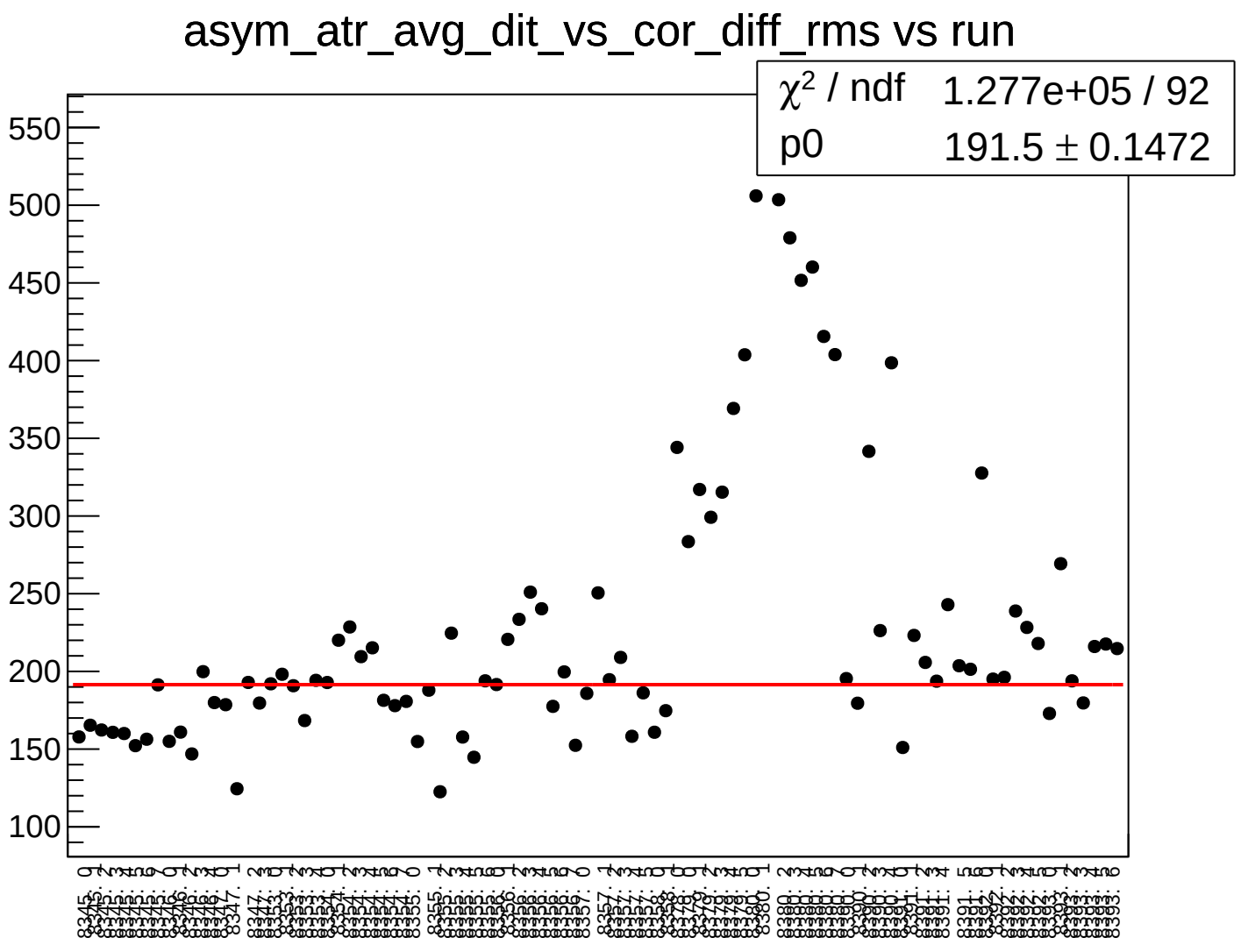

asym_atr_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 82.77 / 92
p0 −2.204e−12 ± 1.034e−12
pull
Entries 93
Mean 21.87
Std Dev 24

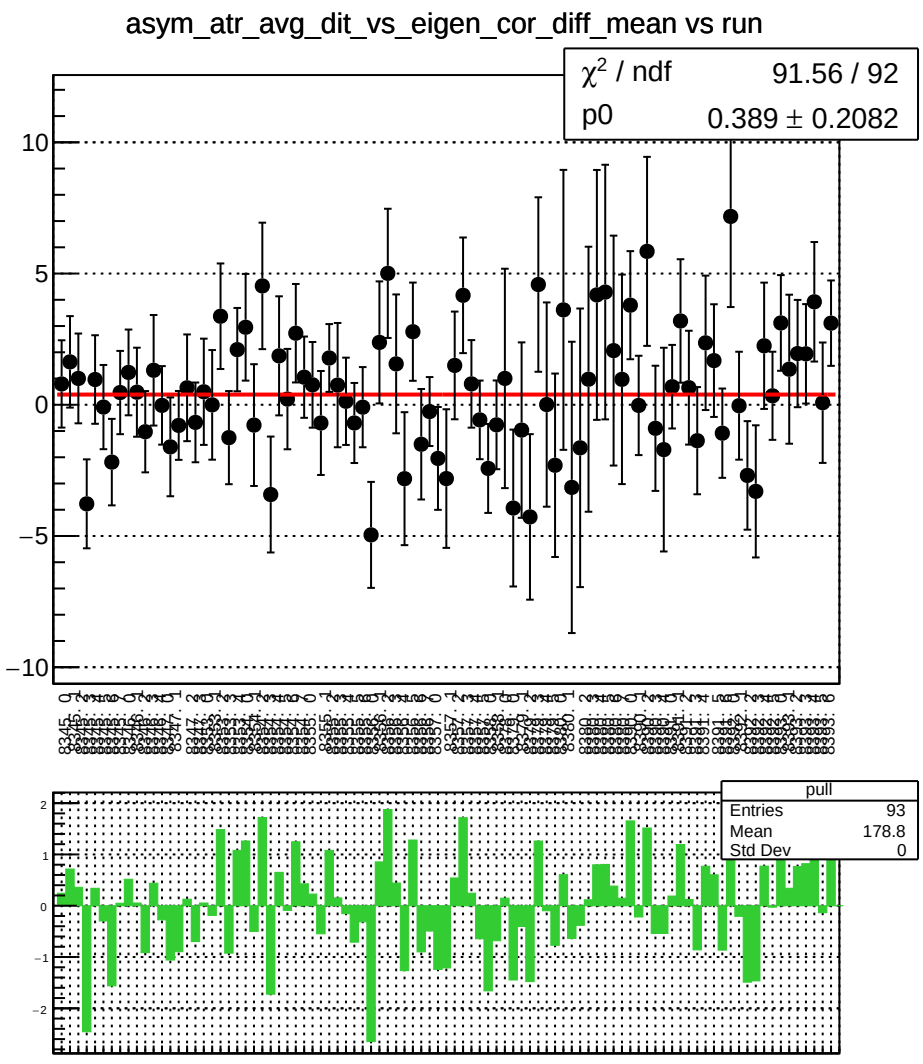

pull1D
Entries 93
Mean 0.06725
Std Dev 0.941

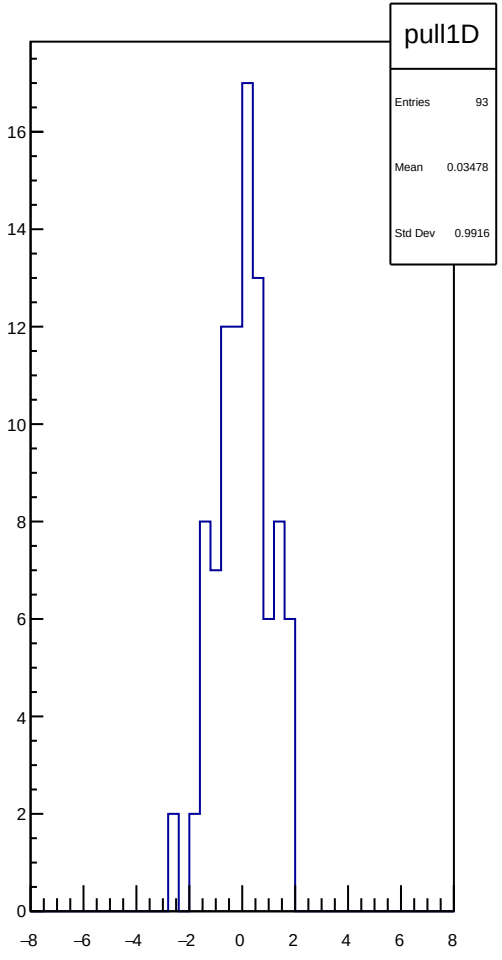

asym_atr_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.048e+06 / 92
p0 6.418e−10 ± 7.309e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

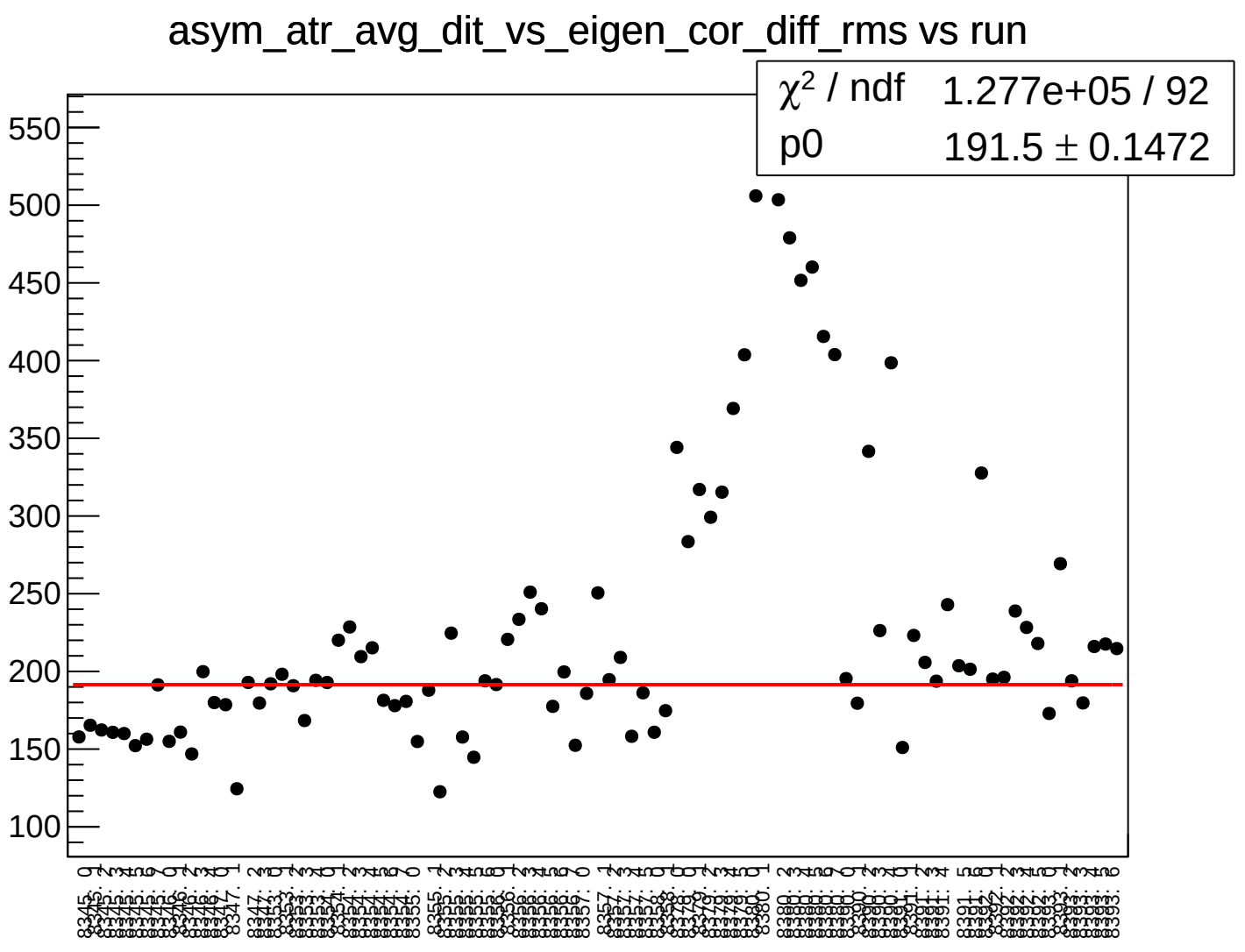

asym_atr_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 91.56 / 92
p0 0.389 ± 0.2082
pull
Entries 93
Mean 178.8
Std Dev 0

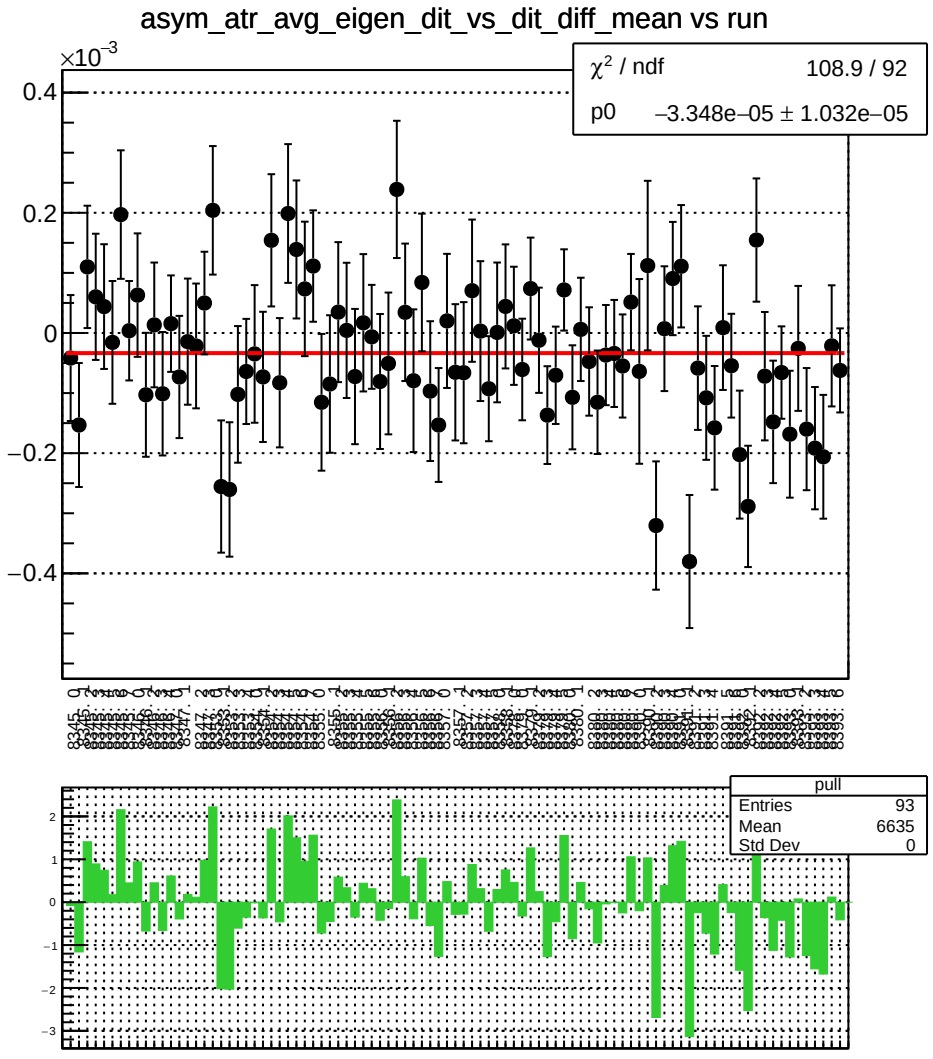

pull1D
Entries 93
Mean 0.03478
Std Dev 0.9916

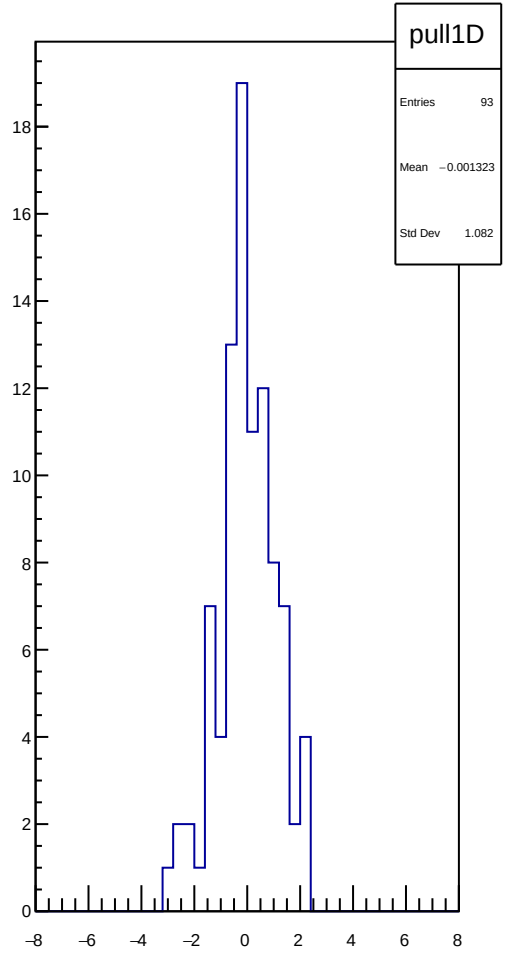

asym_atr_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.277e+05 / 92
p0 191.5 ± 0.1472
550
500
450
400
350
300
250
200
150
100

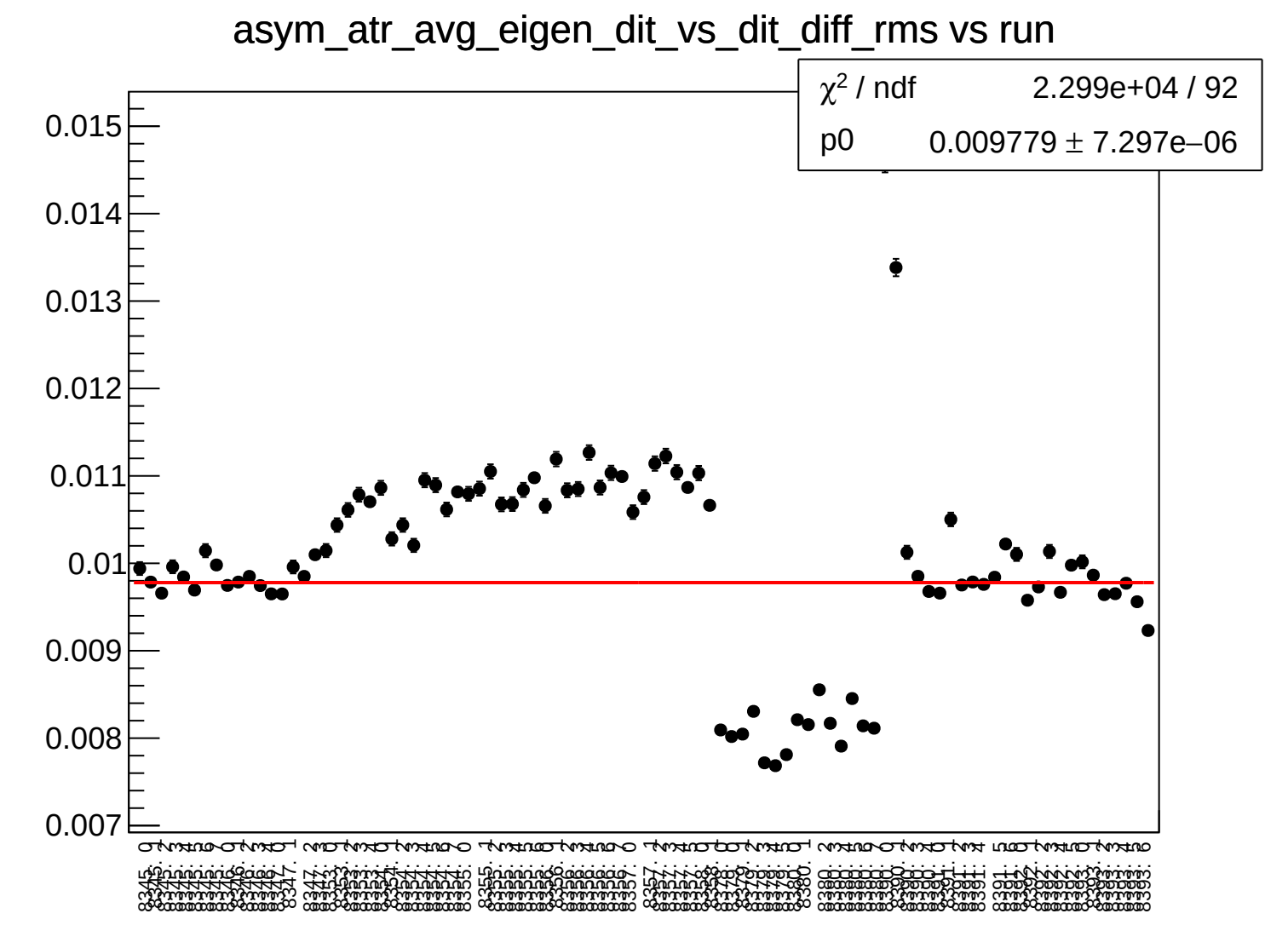

asym_atr_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.56 / 92
p0 0.389 ± 0.2082
pull
Entries 93
Mean 178.8
Std Dev 0

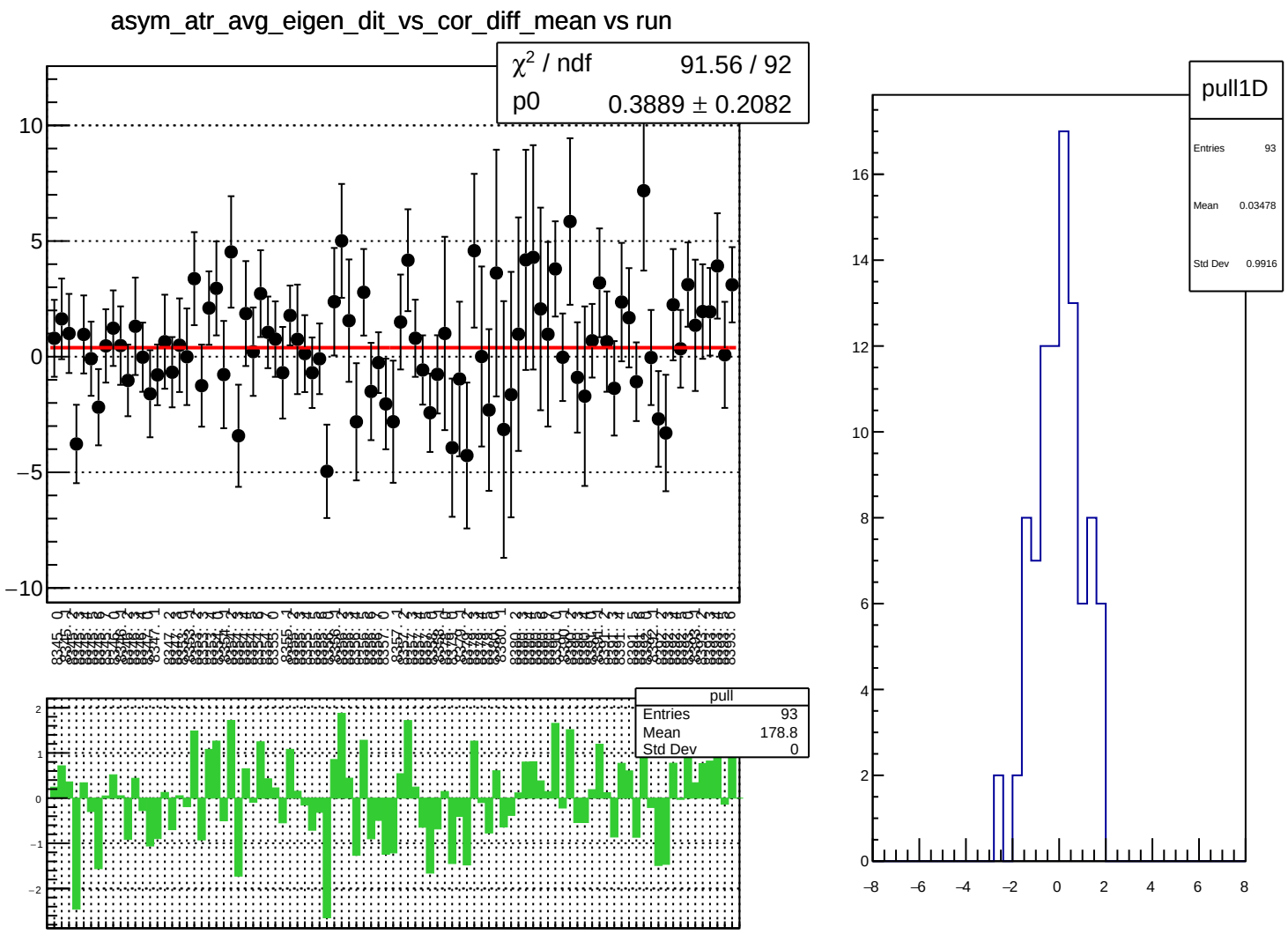

pull1D
Entries 93
Mean 0.03478
Std Dev 0.9916

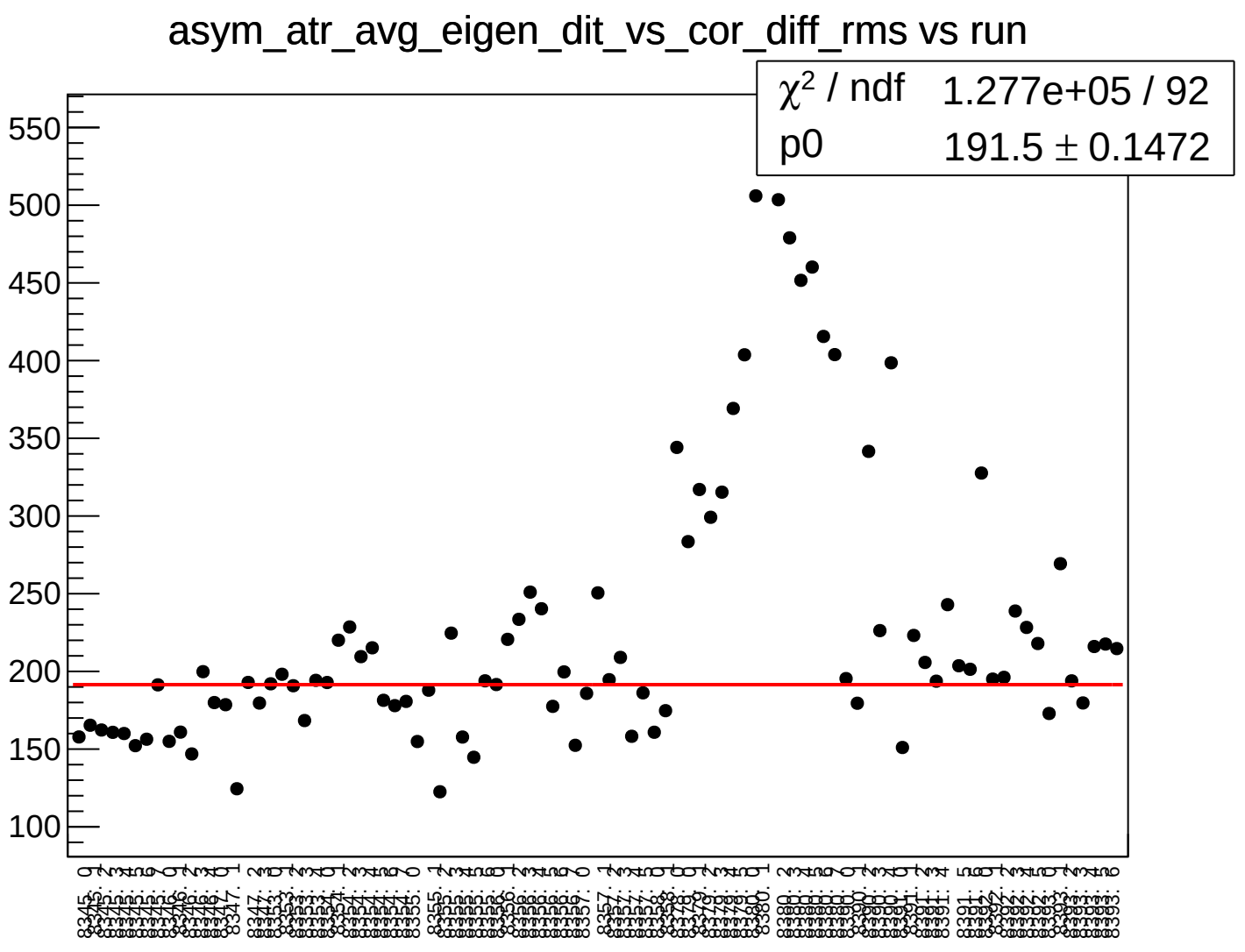

asym_atr_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.277e+05 / 92
p0 191.5 ± 0.1472
550
500
450
400
350
300
250
200
150
100

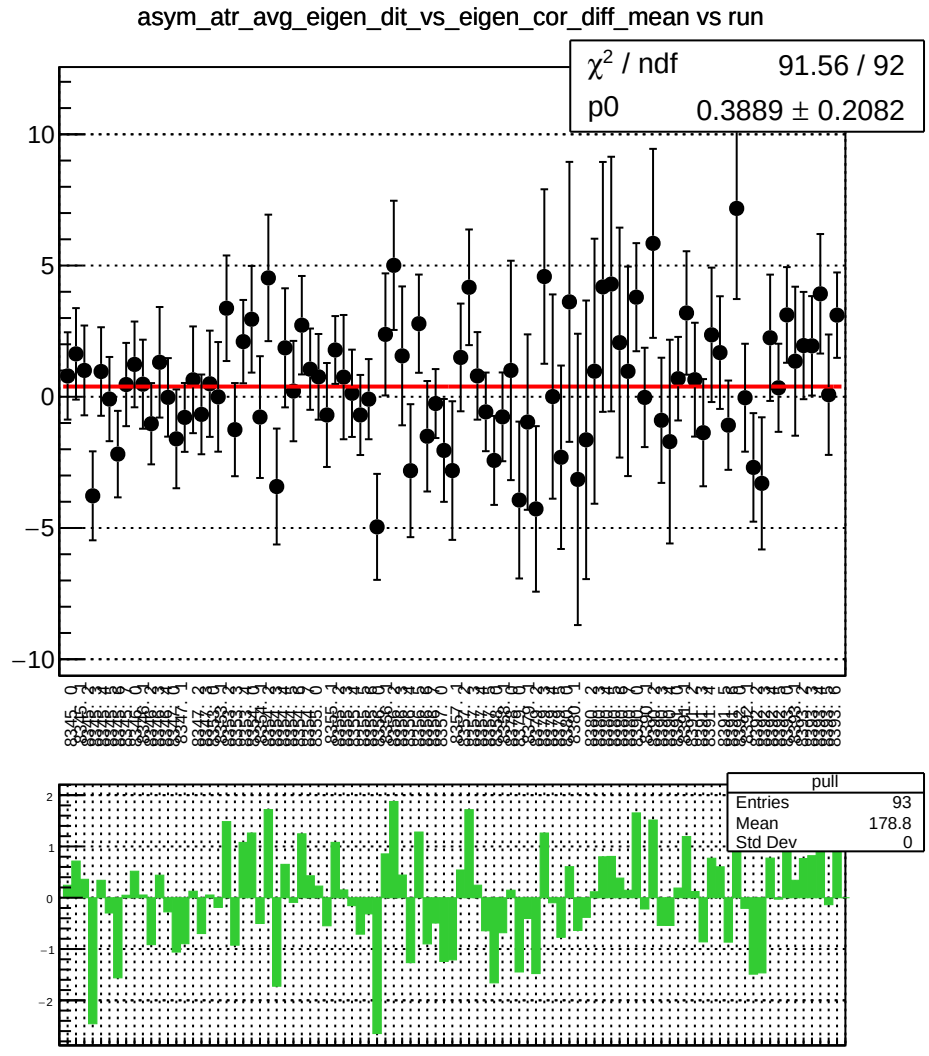

asym_atr_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 108.9 / 92
p0 −3.348e−05 ± 1.032e−05
pull
Entries 93
Mean 6635
Std Dev 0

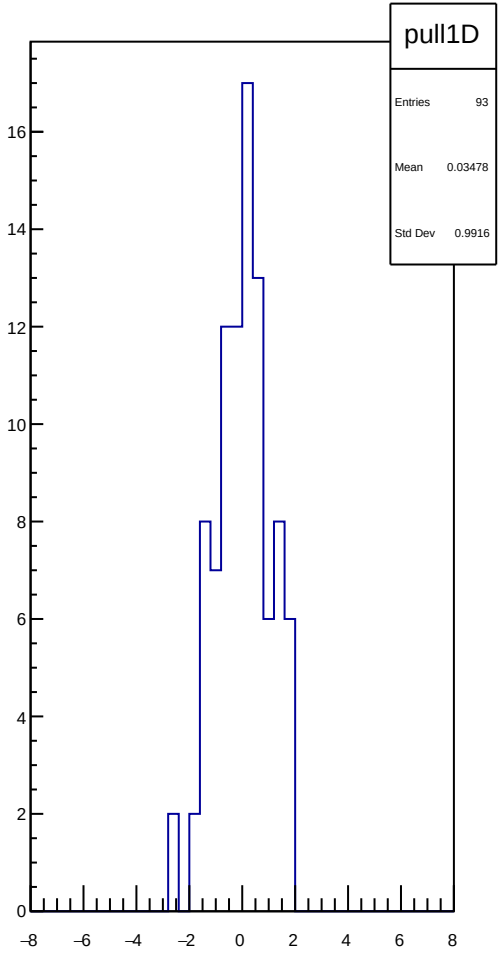

pull1D
Entries 93
Mean −0.001323
Std Dev 1.082

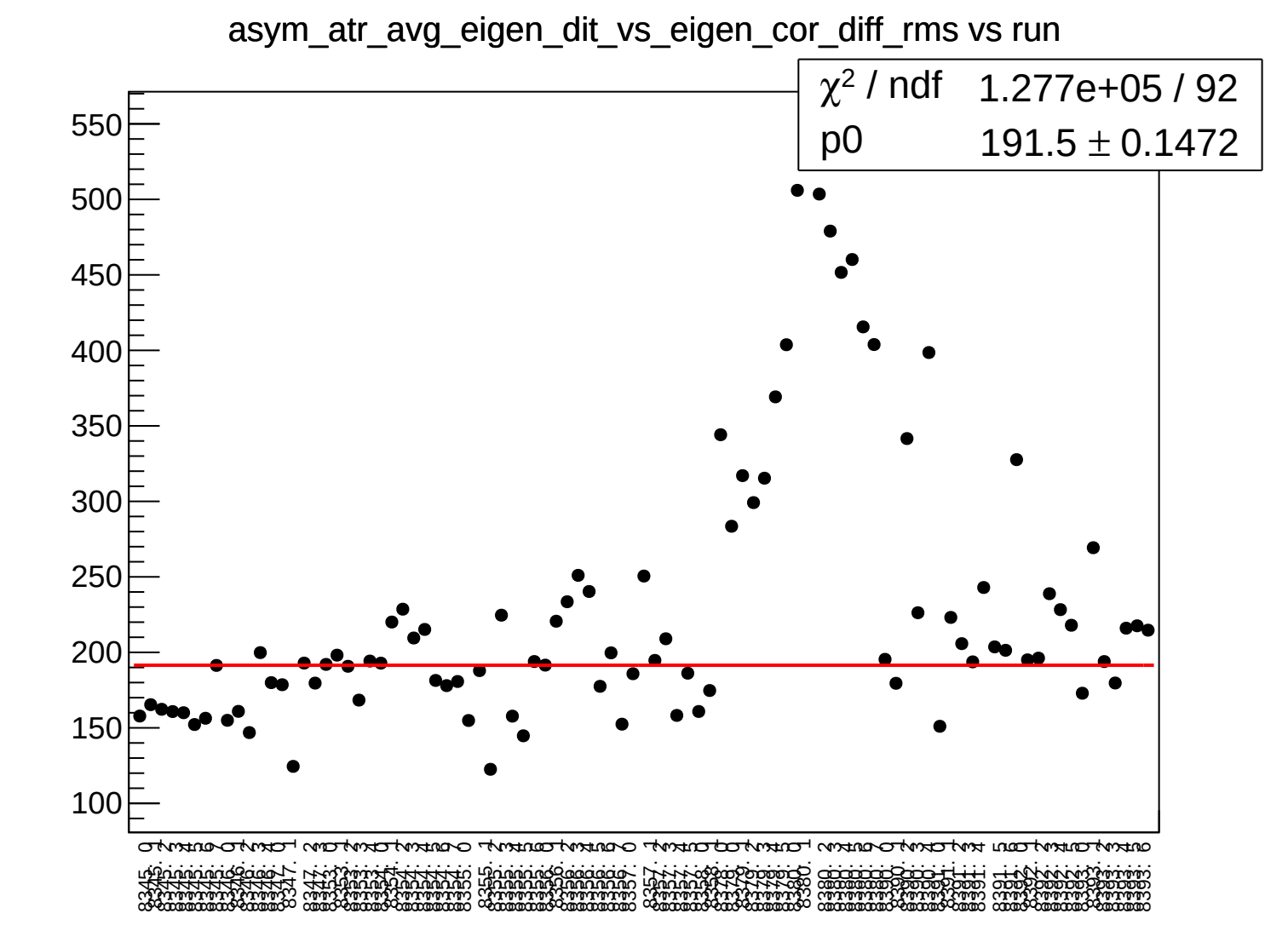

asym_atr_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.299e+04 / 92
p0 0.009779 ± 7.297e−06
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007

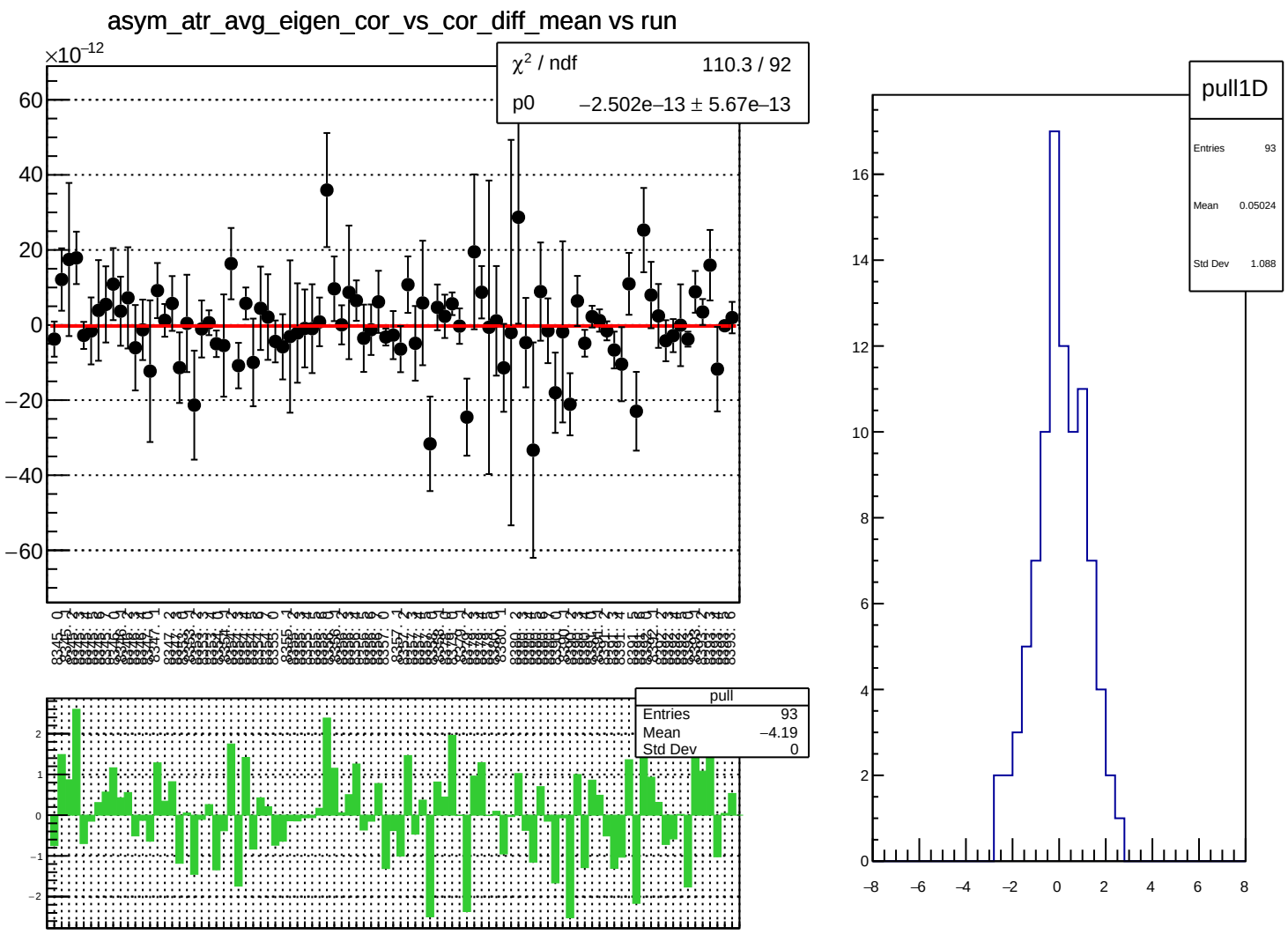

asym_atr_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.56 / 92
p0 0.3889 ± 0.2082
pull
Entries 93
Mean 178.8
Std Dev 0
pull1D
Entries 93
Mean 0.03478
Std Dev 0.9916

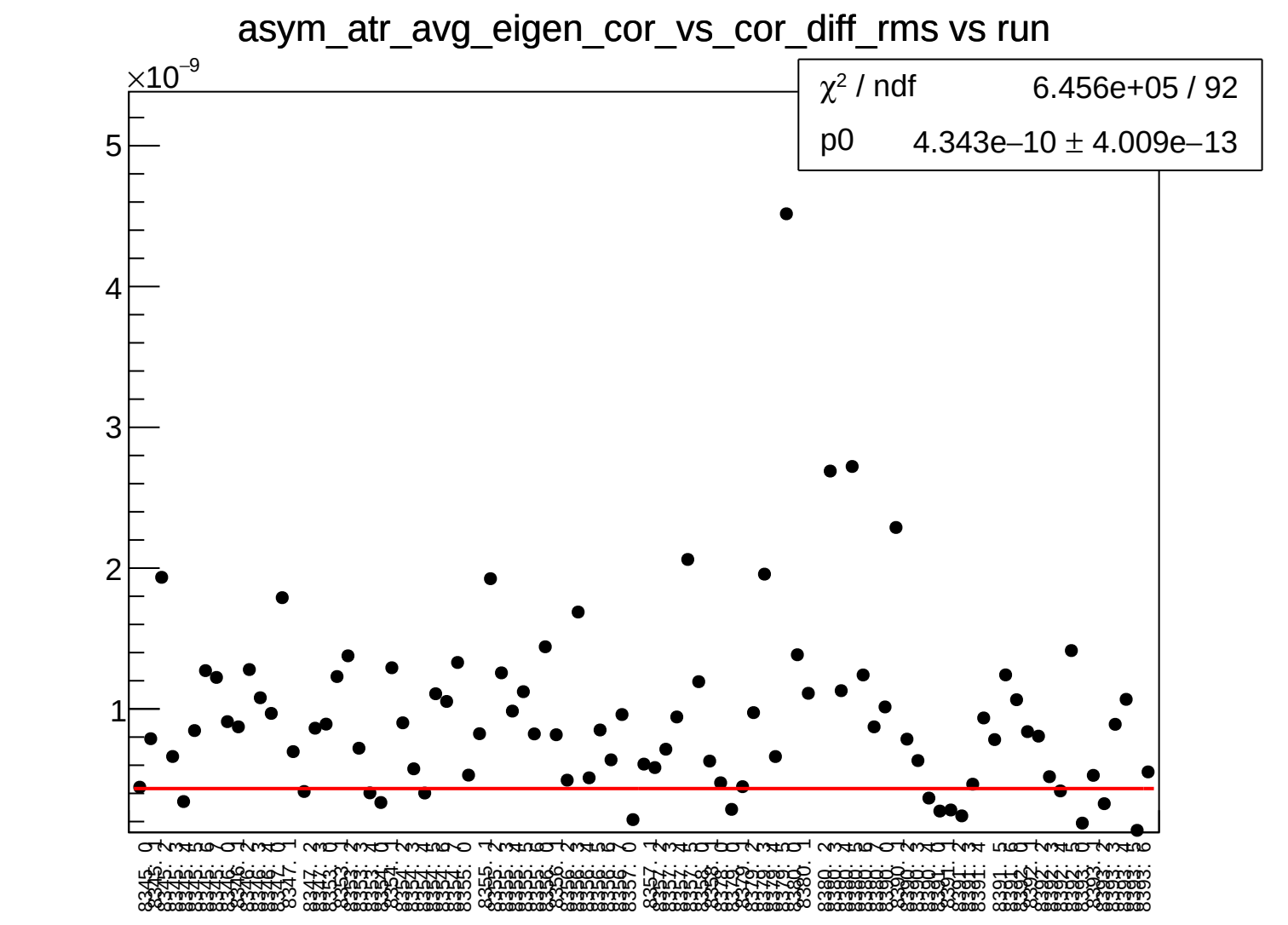

asym_atr_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.277e+05 / 92
p0 191.5 ± 0.1472
550
500
450
400
350
300
250
200
150
100

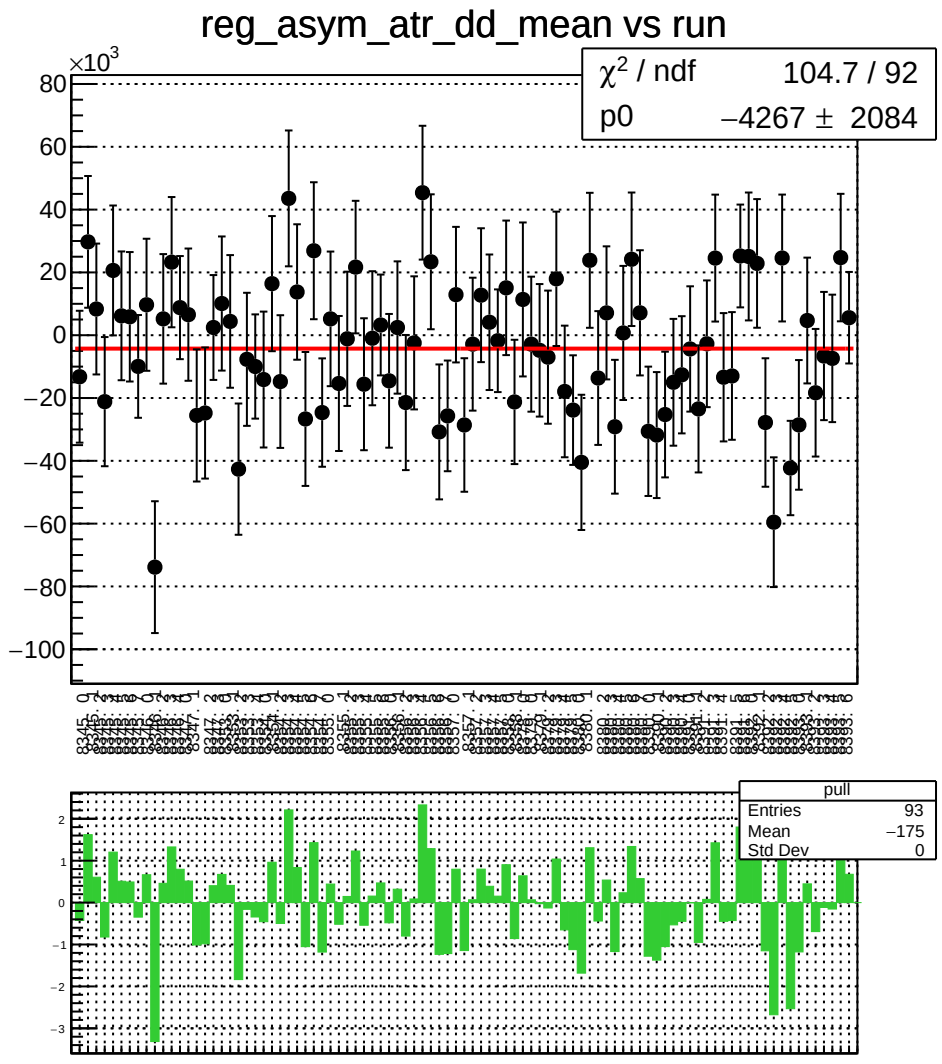

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.56 / 92
p0 0.3889 ± 0.2082
pull
Entries 93
Mean 178.8
Std Dev 0

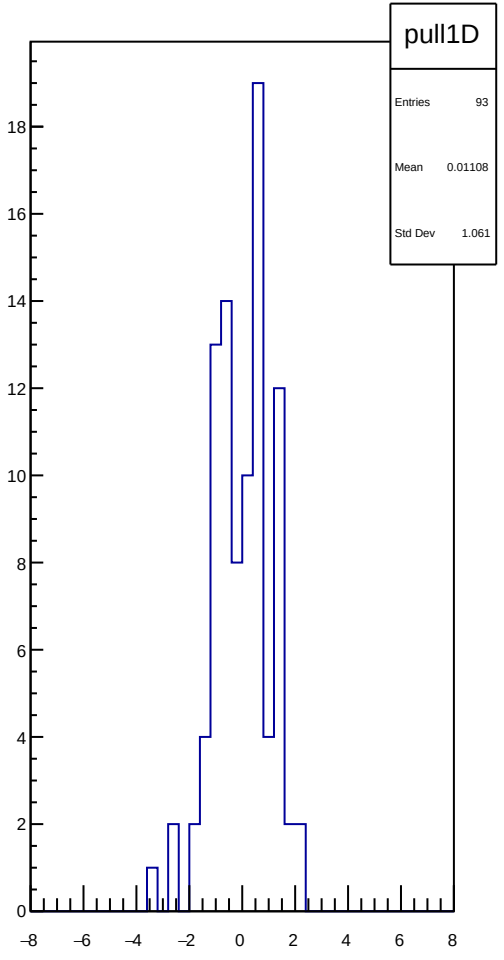

pull1D
Entries 93
Mean 0.03478
Std Dev 0.9916

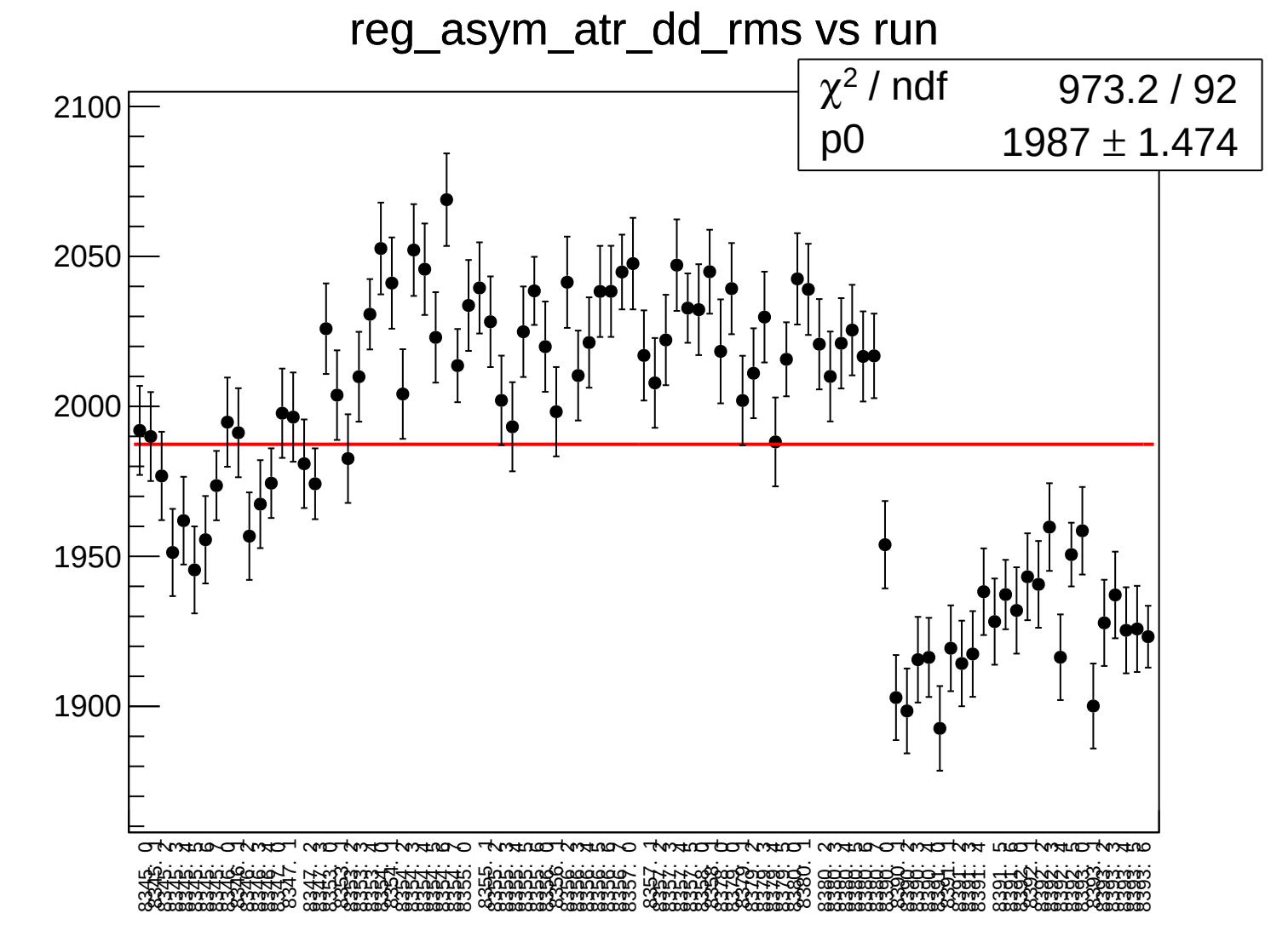

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.277e+05 / 92
p0 191.5 ± 0.1472
550
500
450
400
350
300
250
200
150
100

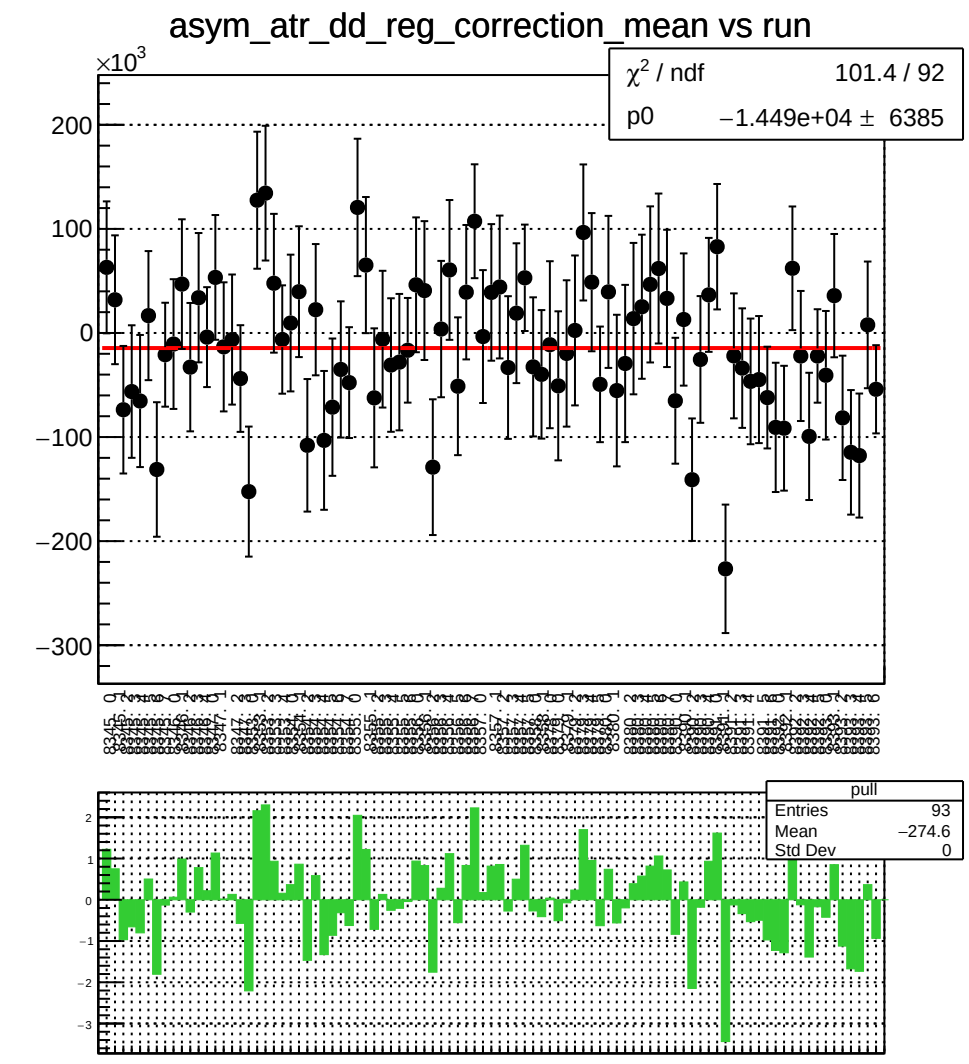

asym_atr_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 110.3 / 92
p0 −2.502e−13 ± 5.67e−13
pull
Entries 93
Mean −4.19
Std Dev 0
pull1D
Entries 93
Mean 0.05024
Std Dev 1.088

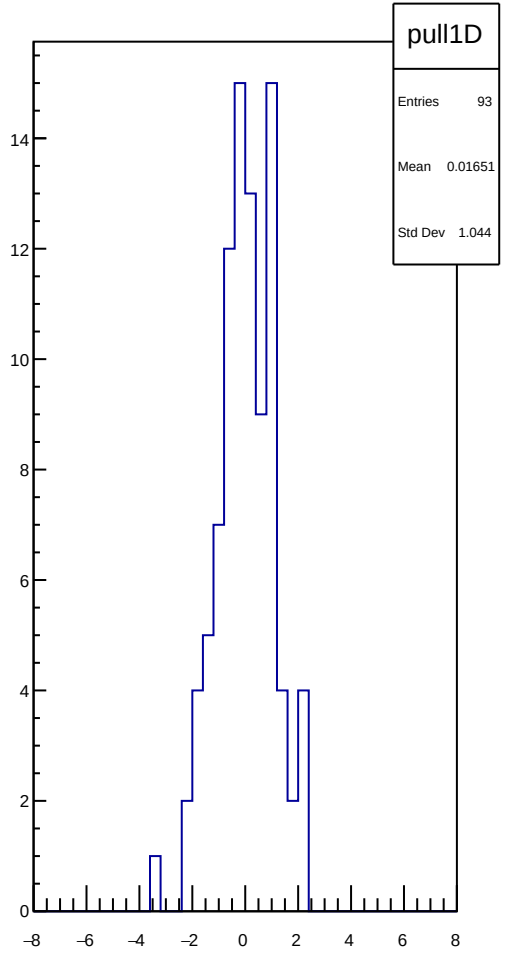

asym_atr_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.456e+05 / 92
p0 4.343e−10 ± 4.009e−13
5
4
3
2
1

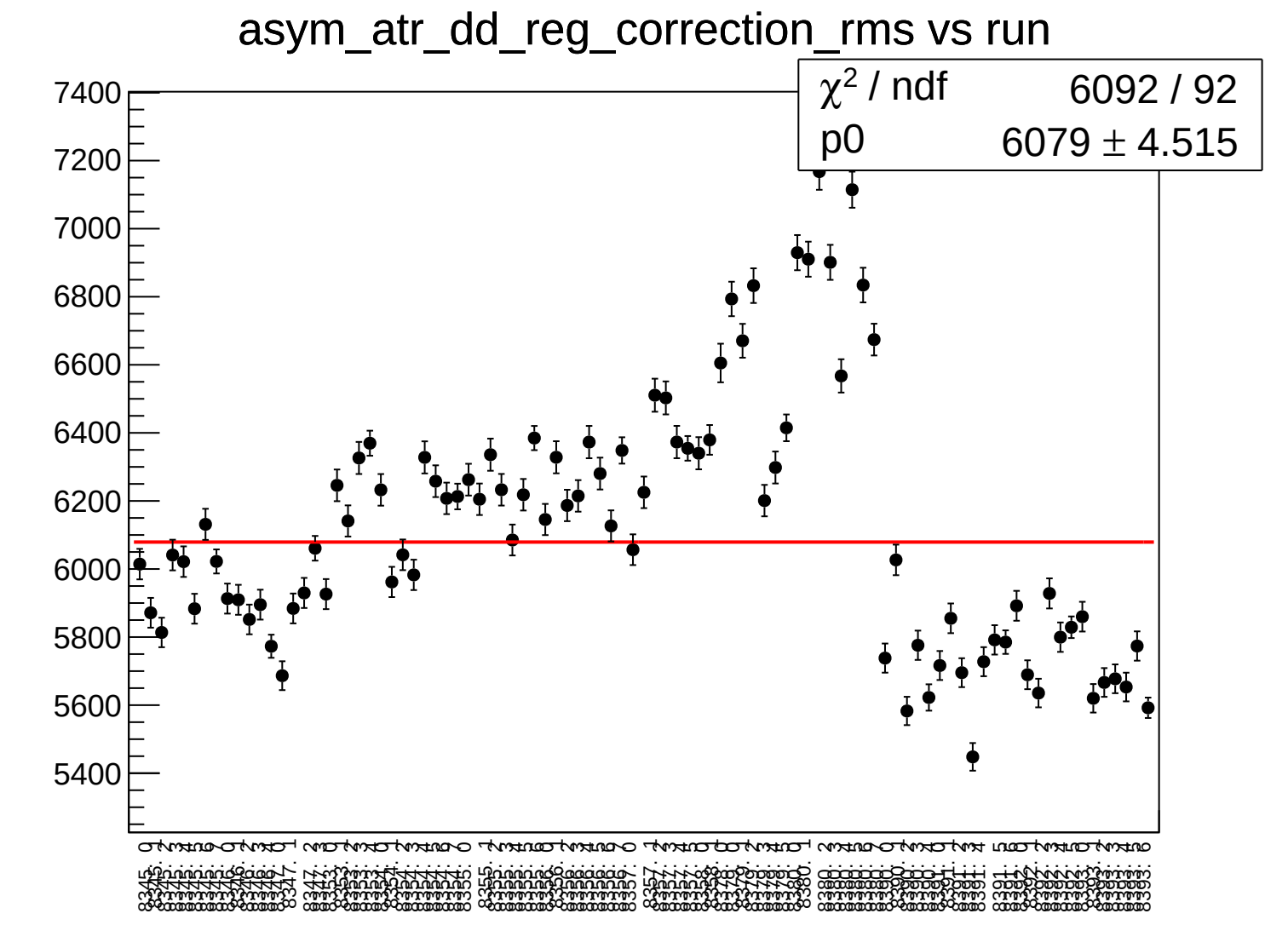

reg_asym_atr_dd_mean vs run
χ² / ndf 104.7 / 92
p0 −4267 ± 2084
×10³
pull
Entries 93
Mean −175
Std Dev 0

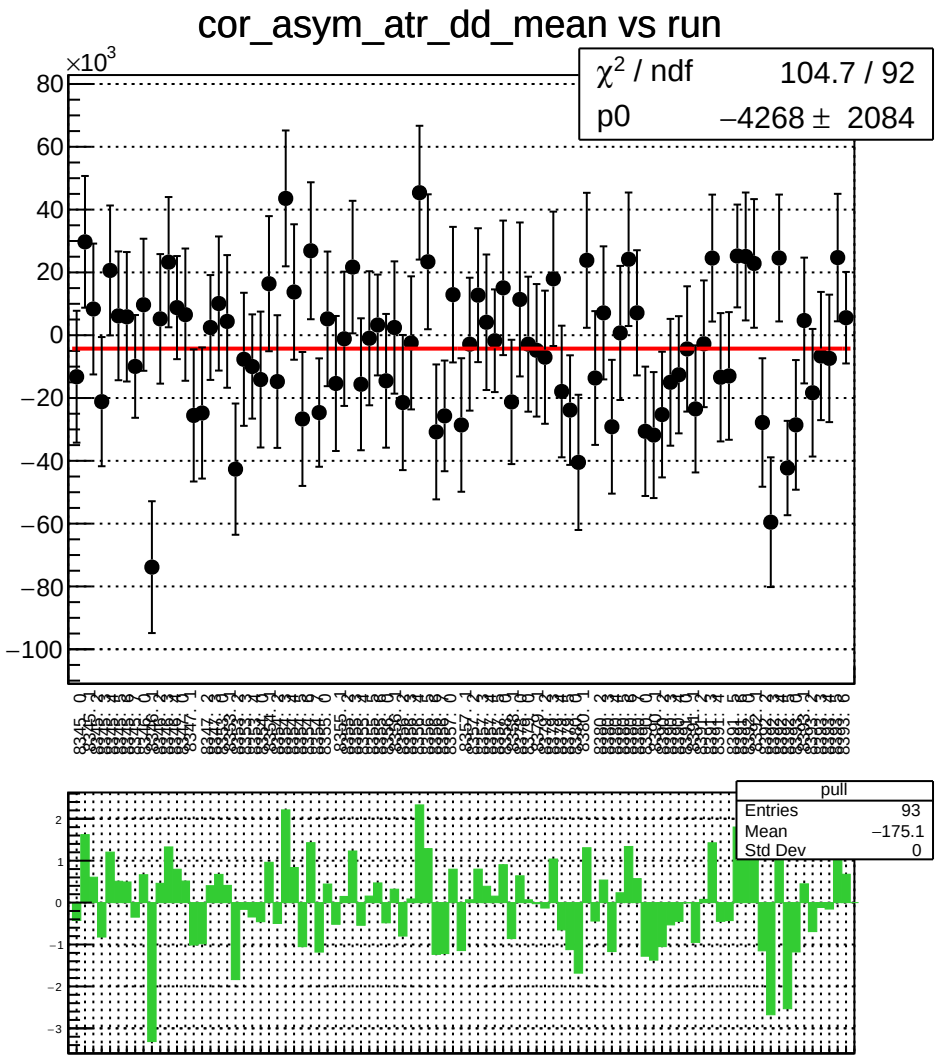

pull1D
Entries 93
Mean 0.01108
Std Dev 1.061

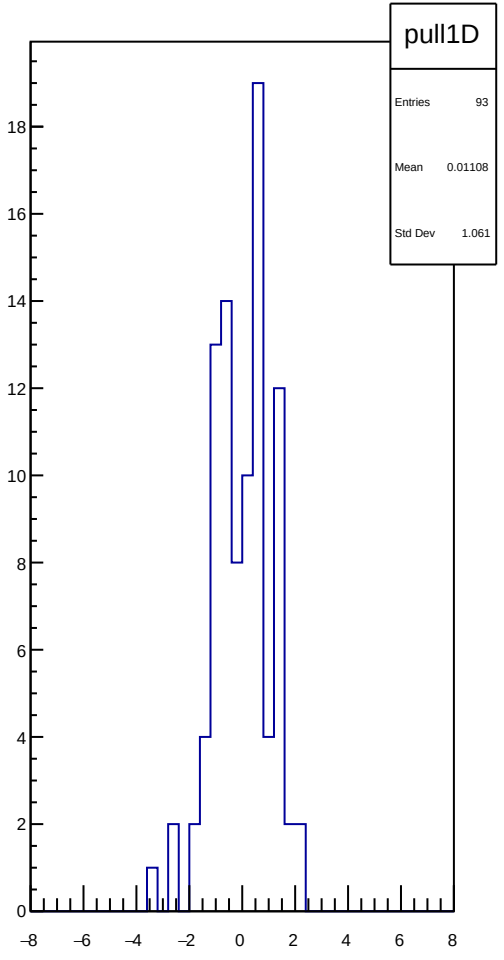

reg_asym_atr_dd_rms vs run
χ^2 / ndf 973.2 / 92
p0 1987 ± 1.474
2100
2050
2000
1950
1900

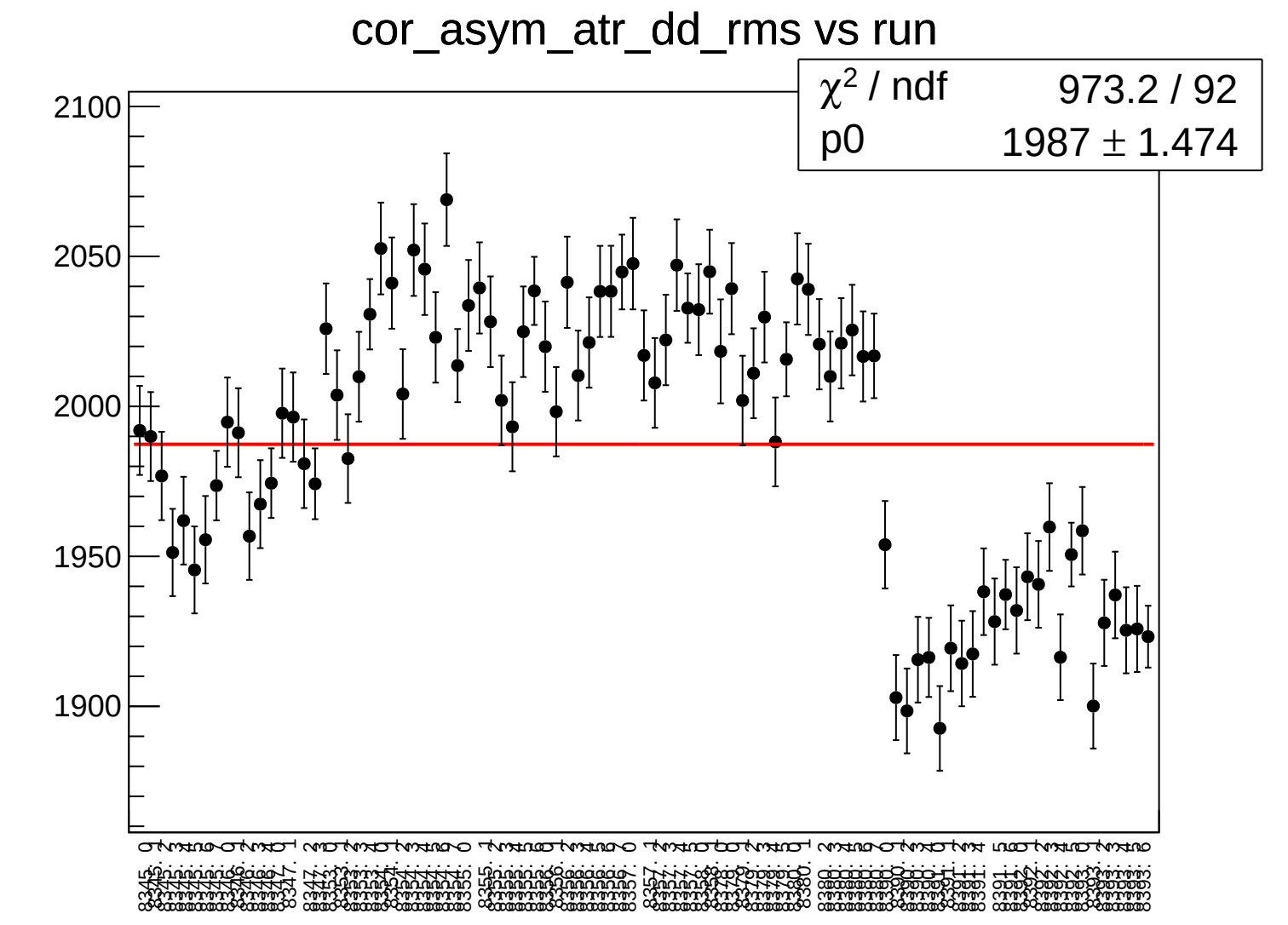

asym_atr_dd_reg_correction_mean vs run
×10^3
χ² / ndf 101.4 / 92
p0 −1.449e+04 ± 6385
200
100
0
−100
−200
−300
pull
Entries 93
Mean −274.6
Std Dev 0
2
1
0
−1
−2
−3

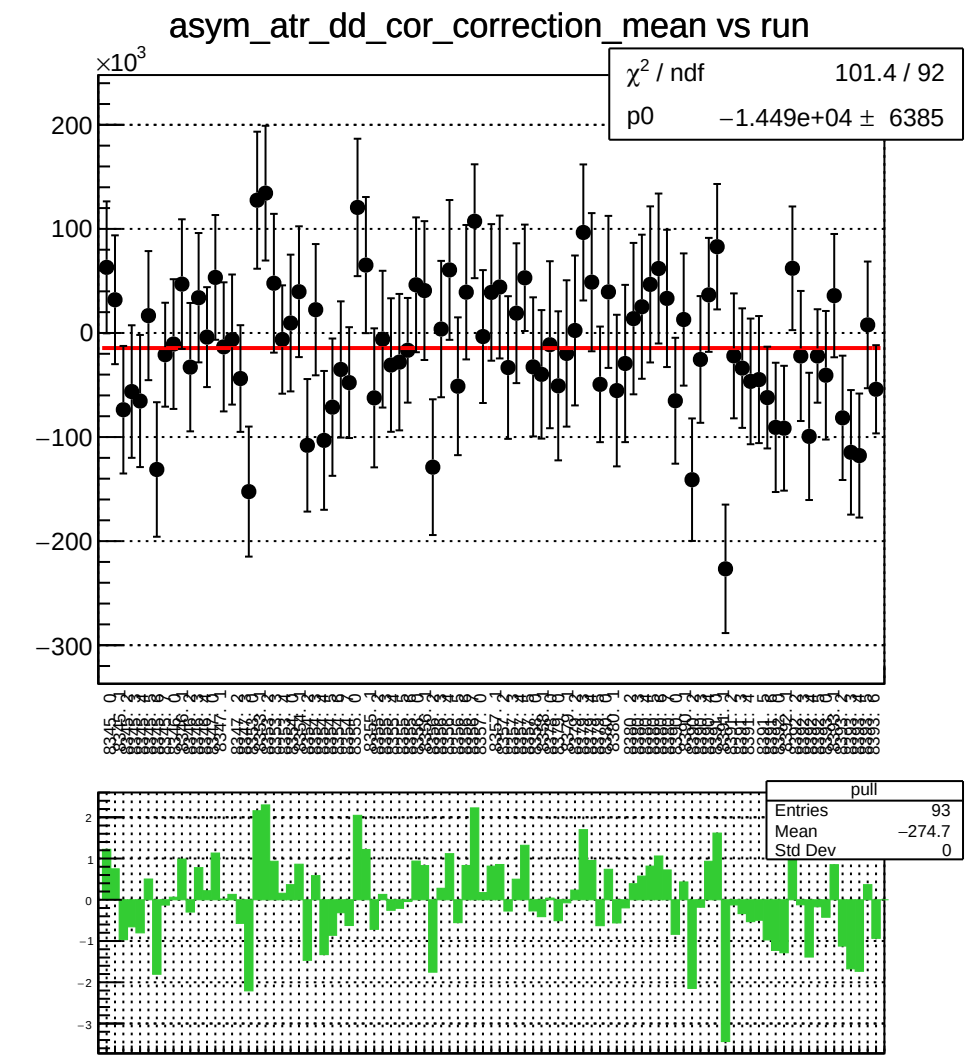

pull1D
Entries 93
Mean 0.01651
Std Dev 1.044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

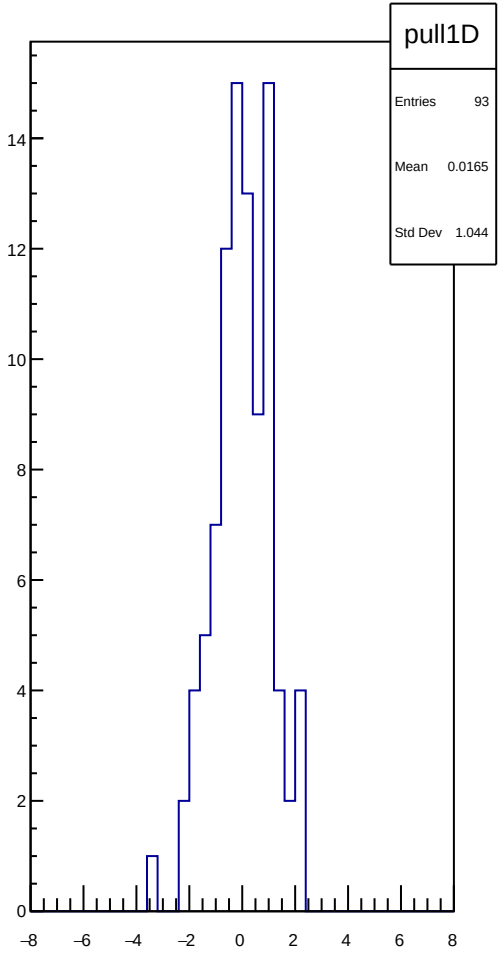

asym_atr_dd_reg_correction_rms vs run
χ² / ndf 6092 / 92
p0 6079 ± 4.515
7400
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400

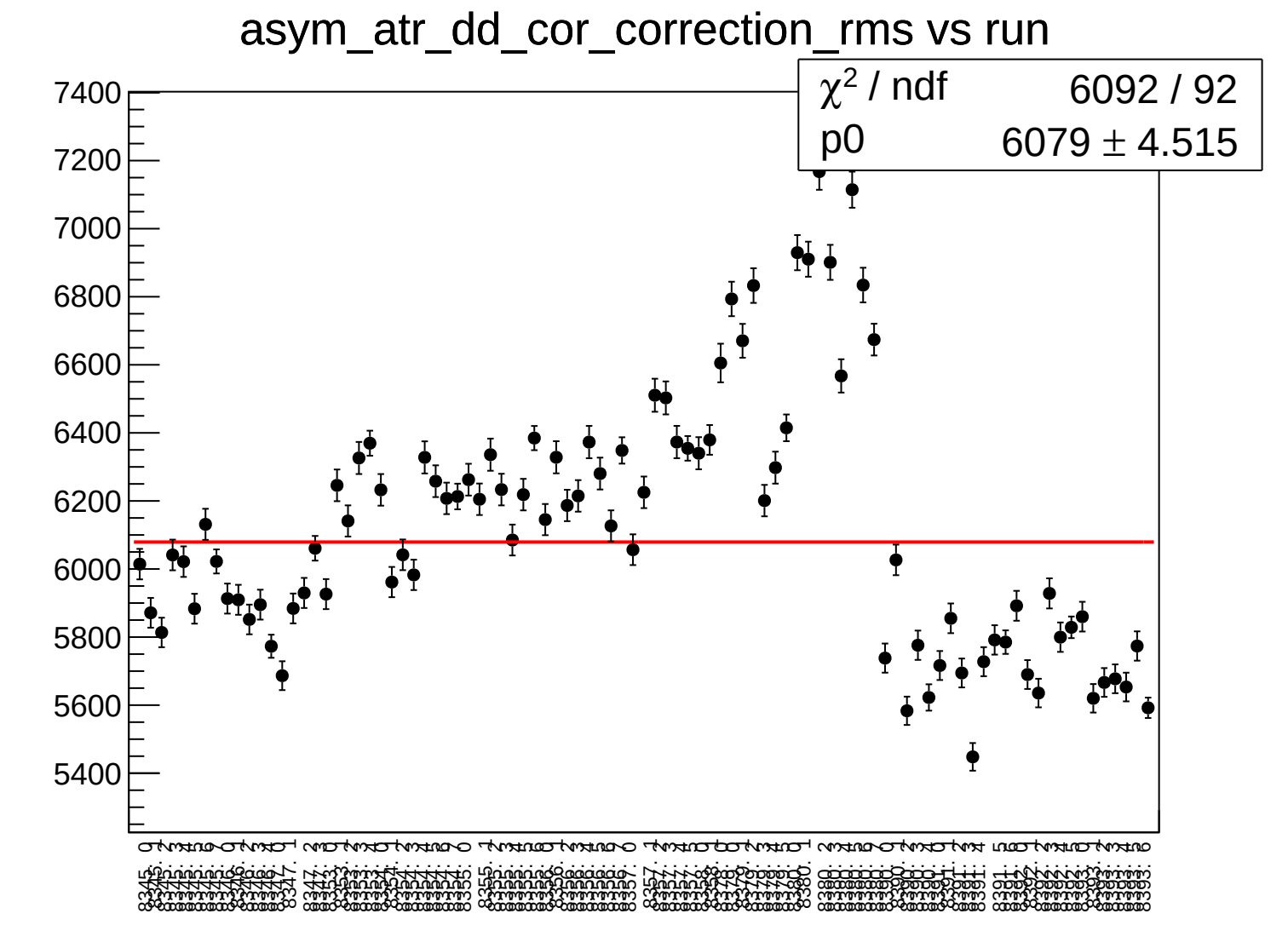

cor_asym_atr_dd_mean vs run
×10^3
χ^2 / ndf 104.7 / 92
p0 −4268 ± 2084
pull
Entries 93
Mean −175.1
Std Dev 0

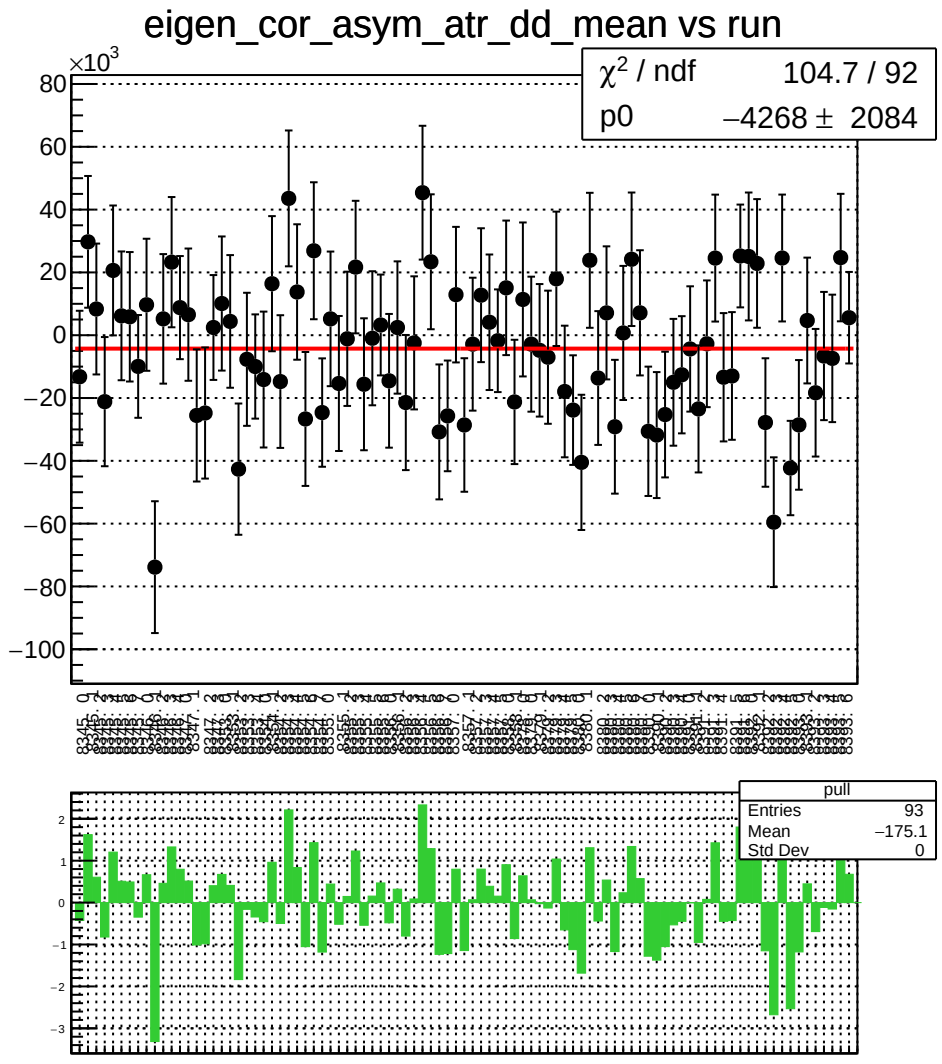

pull1D
Entries 93
Mean 0.01108
Std Dev 1.061

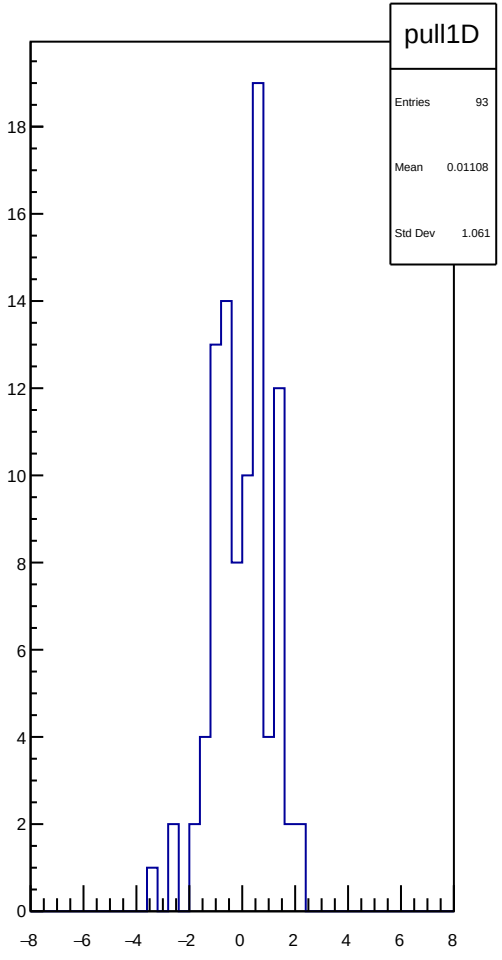

cor_asym_atr_dd_rms vs run
χ^2 / ndf 973.2 / 92
p0 1987 ± 1.474
2100
2050
2000
1950
1900

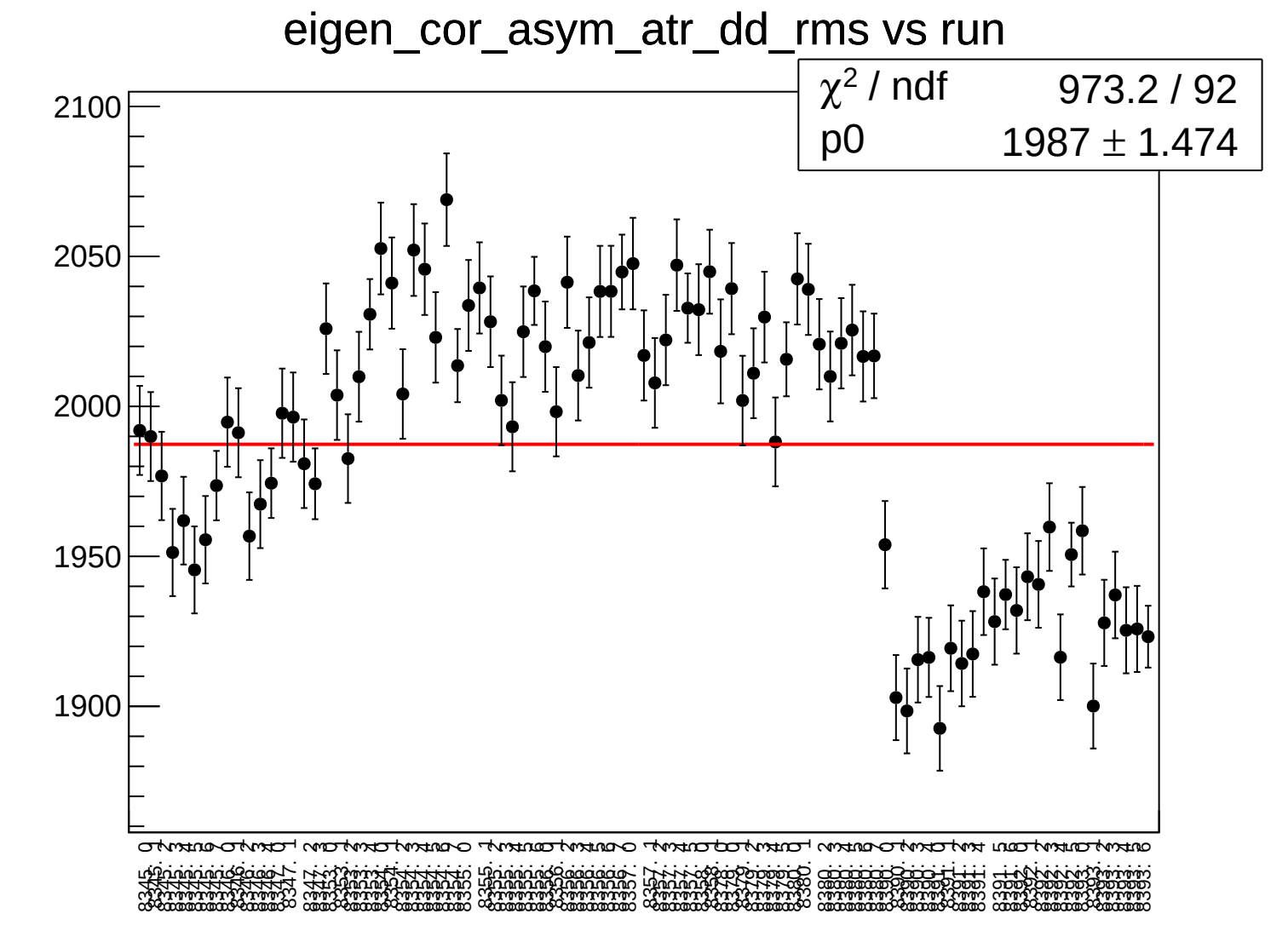

asym_atr_dd_cor_correction_mean vs run
×10^3
χ² / ndf 101.4 / 92
p0 −1.449e+04 ± 6385
pull
Entries 93
Mean −274.7
Std Dev 0

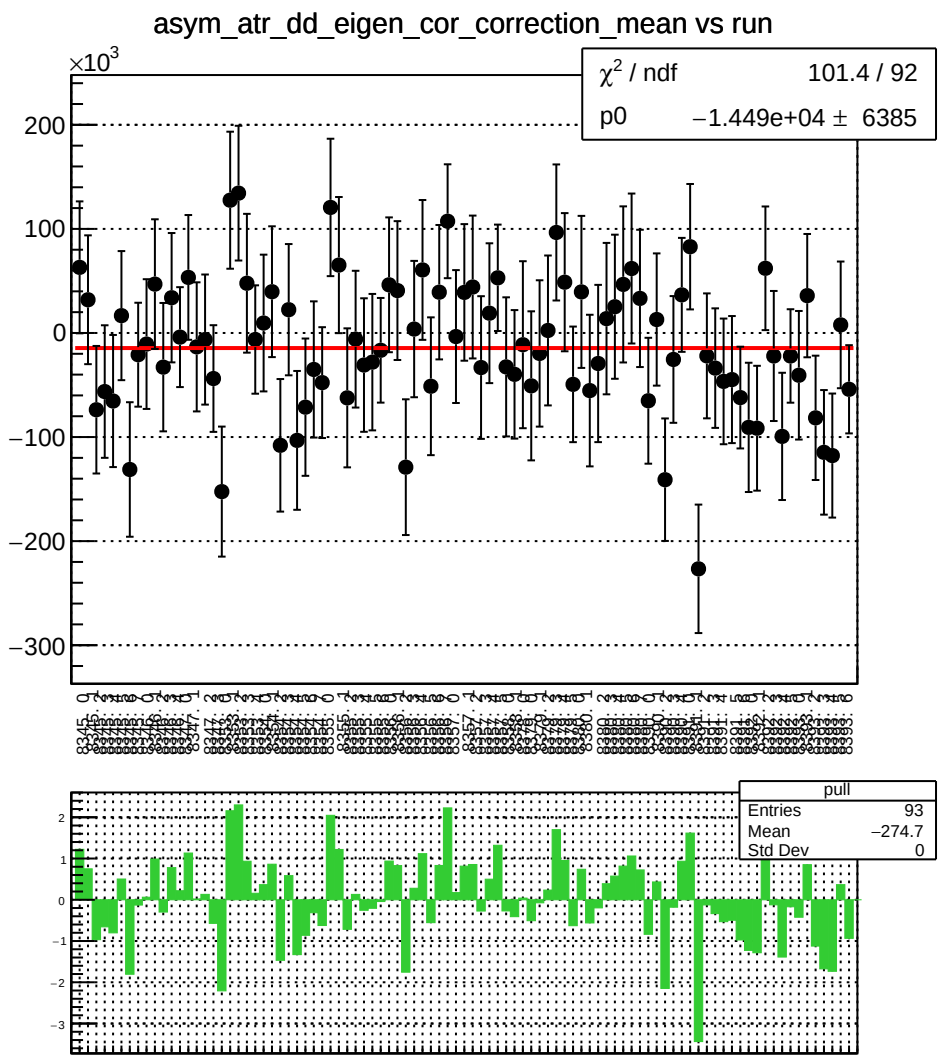

pull1D
Entries 93
Mean 0.0165
Std Dev 1.044

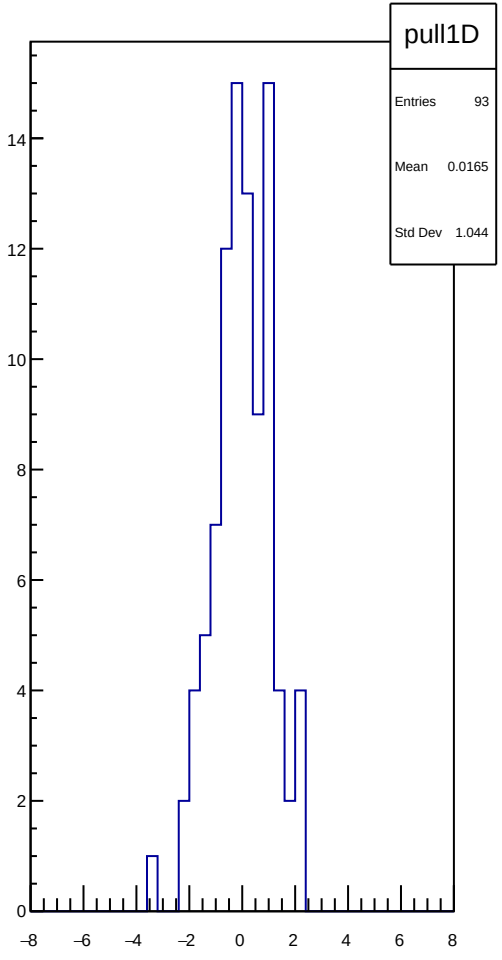

asym_atr_dd_cor_correction_rms vs run
χ^2 / ndf 6092 / 92
p0 6079 ± 4.515
7400
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400

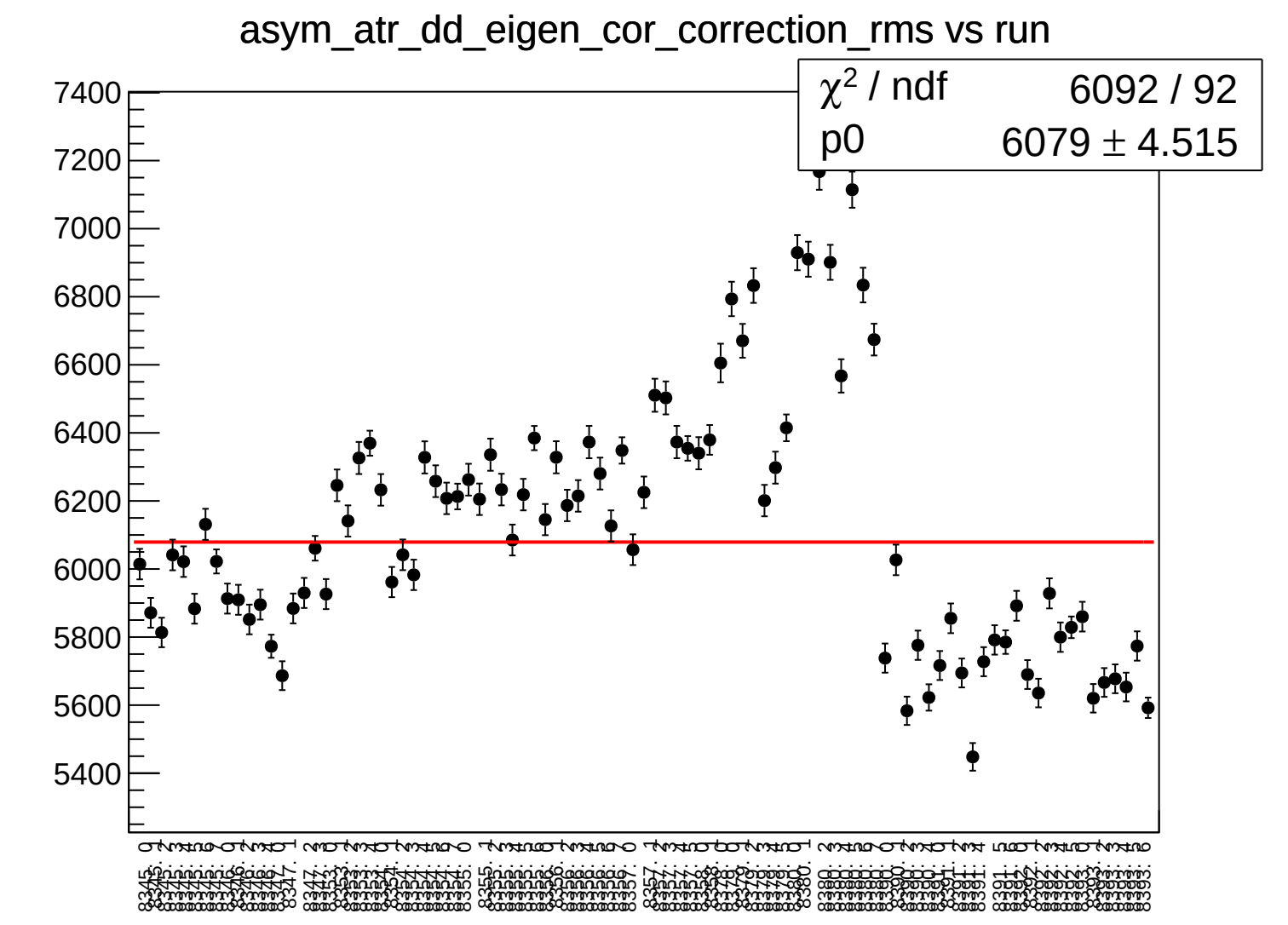

eigen_cor_asym_atr_dd_mean vs run
×10^3
χ² / ndf 104.7 / 92
p0 −4268 ± 2084
pull
Entries 93
Mean −175.1
Std Dev 0

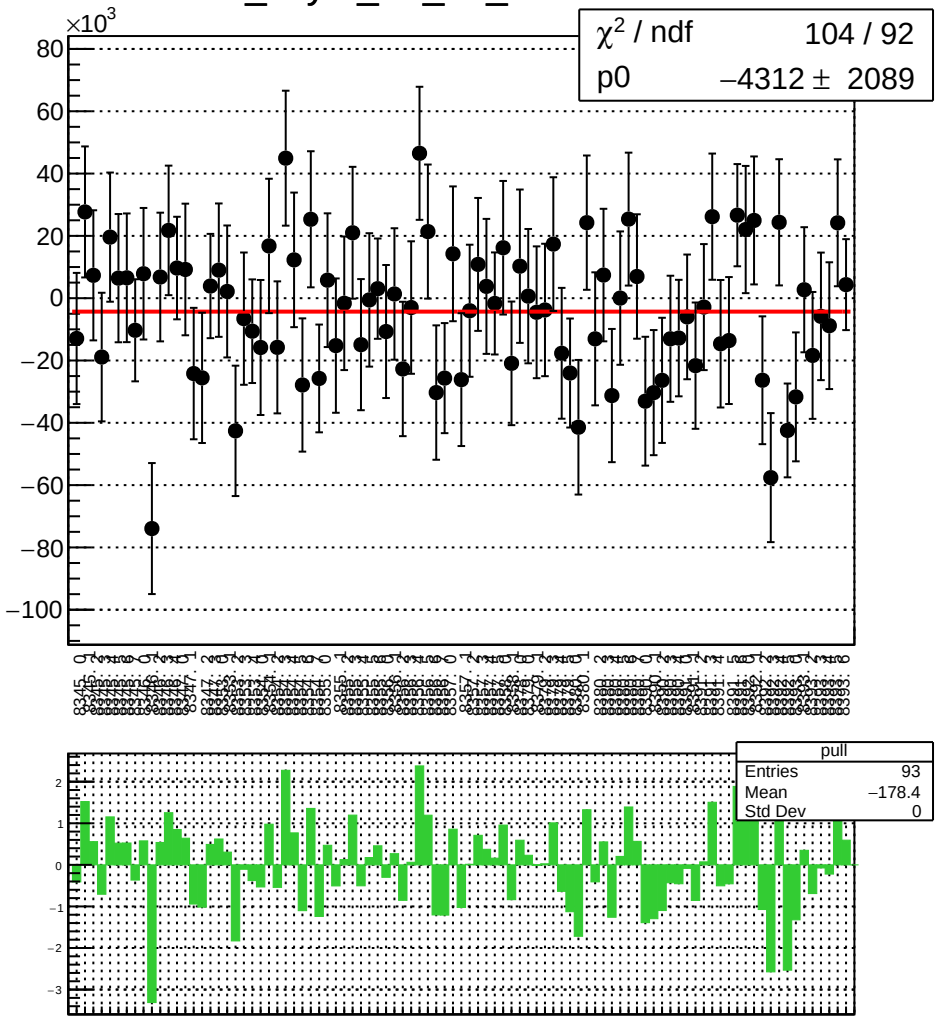

pull1D
Entries 93
Mean 0.01108
Std Dev 1.061

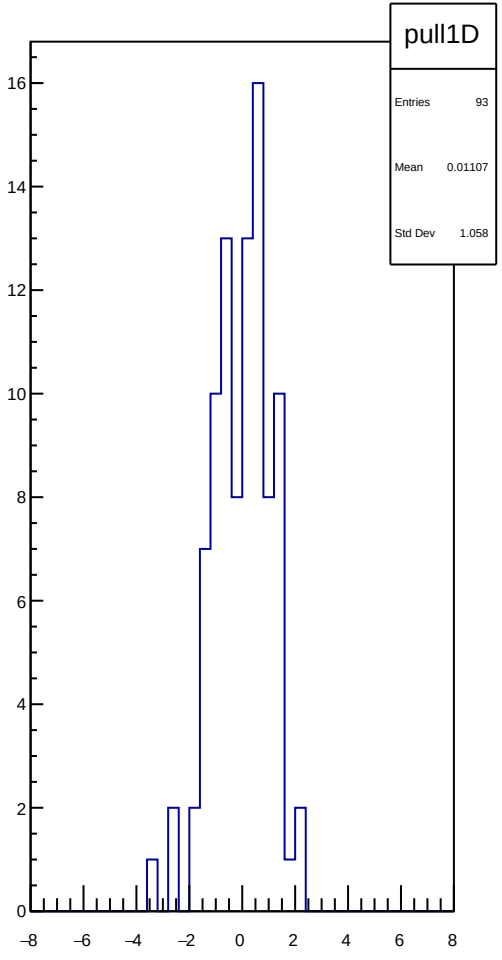

eigen_cor_asym_atr_dd_rms vs run
χ² / ndf 973.2 / 92
p0 1987 ± 1.474
2100
2050
2000
1950
1900

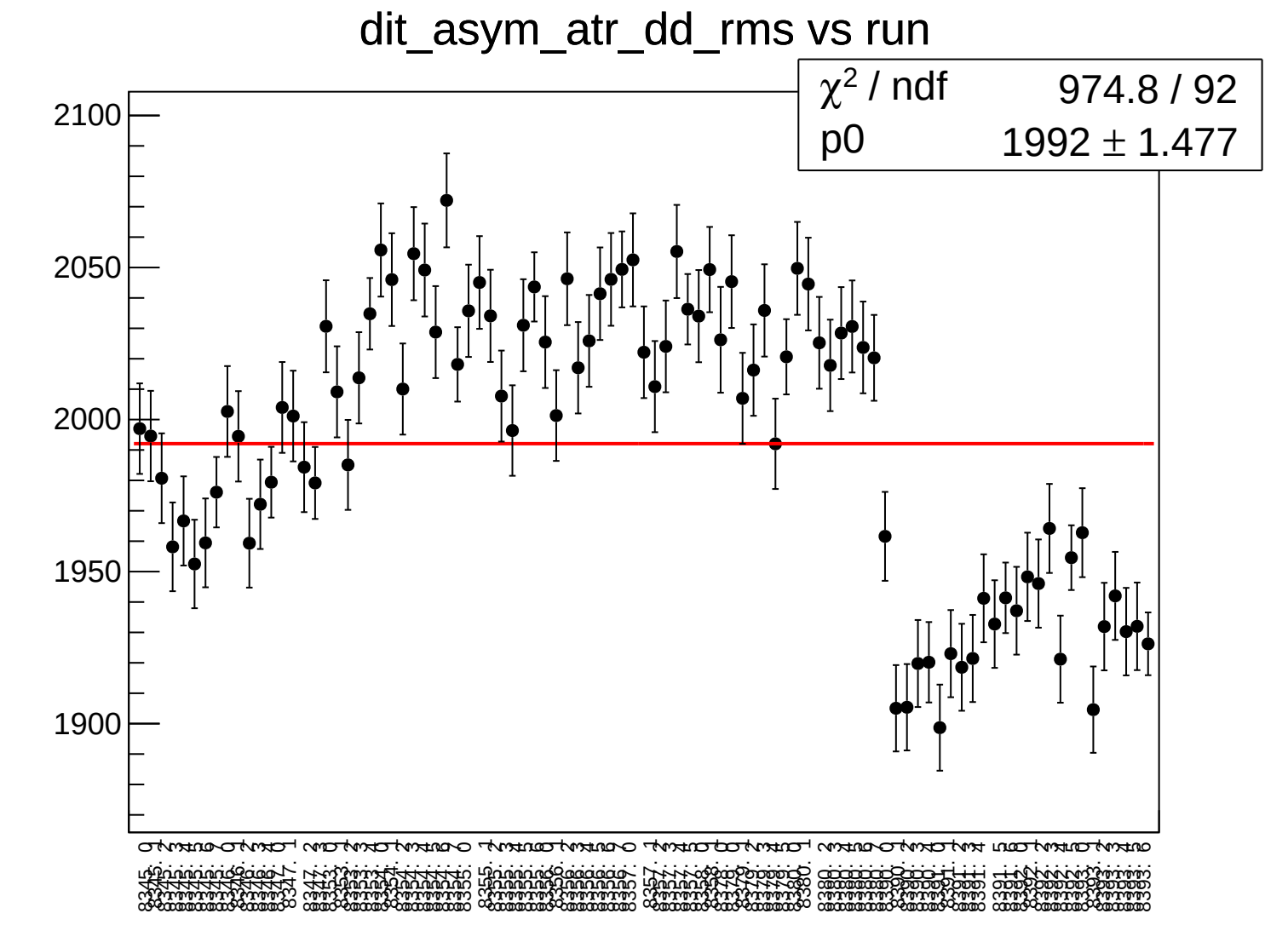

asym_atr_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 101.4 / 92
p0 −1.449e+04 ± 6385
pull
Entries 93
Mean −274.7
Std Dev 0

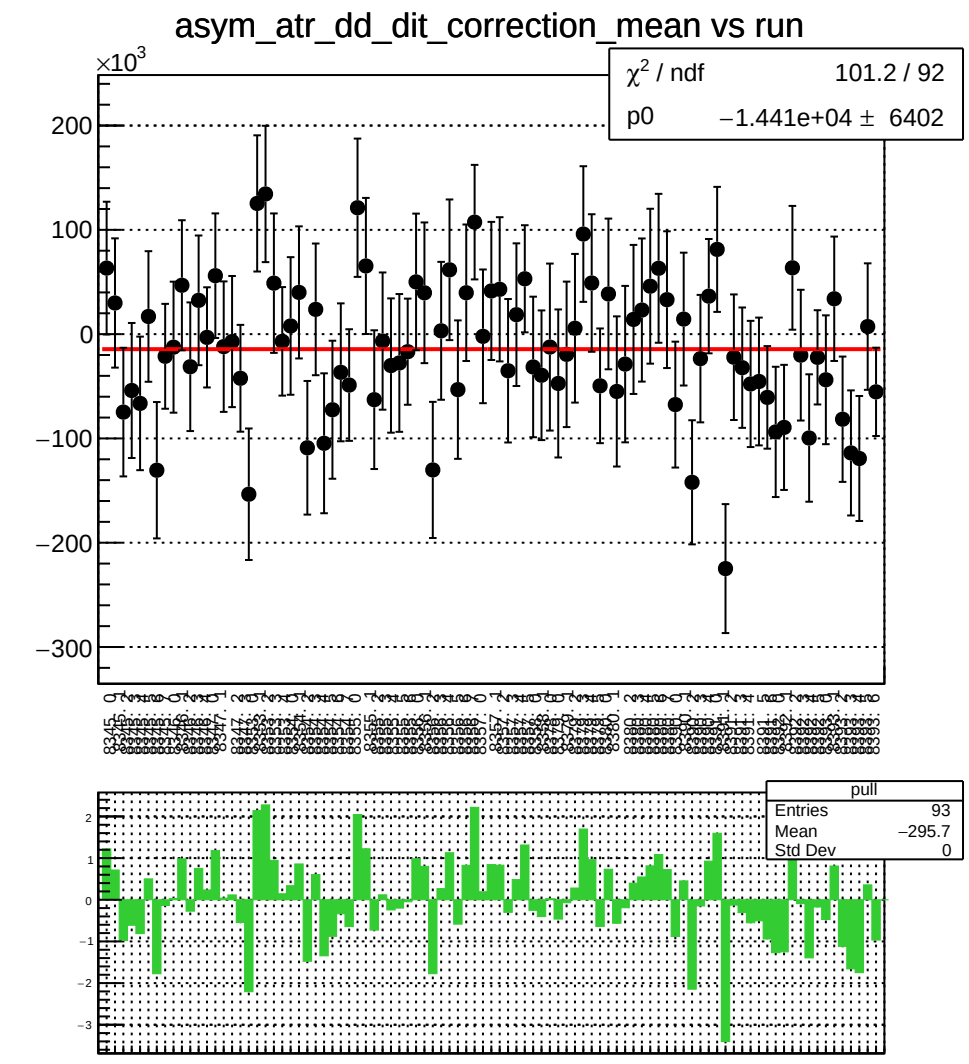

pull1D
Entries 93
Mean 0.0165
Std Dev 1.044

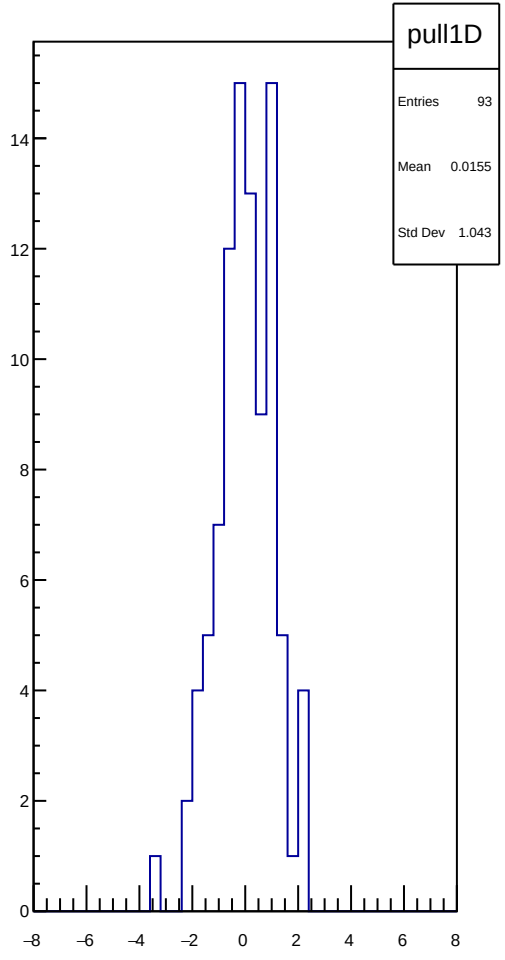

asym_atr_dd_eigen_cor_correction_rms vs run
χ² / ndf 6092 / 92
p0 6079 ± 4.515
7400
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400

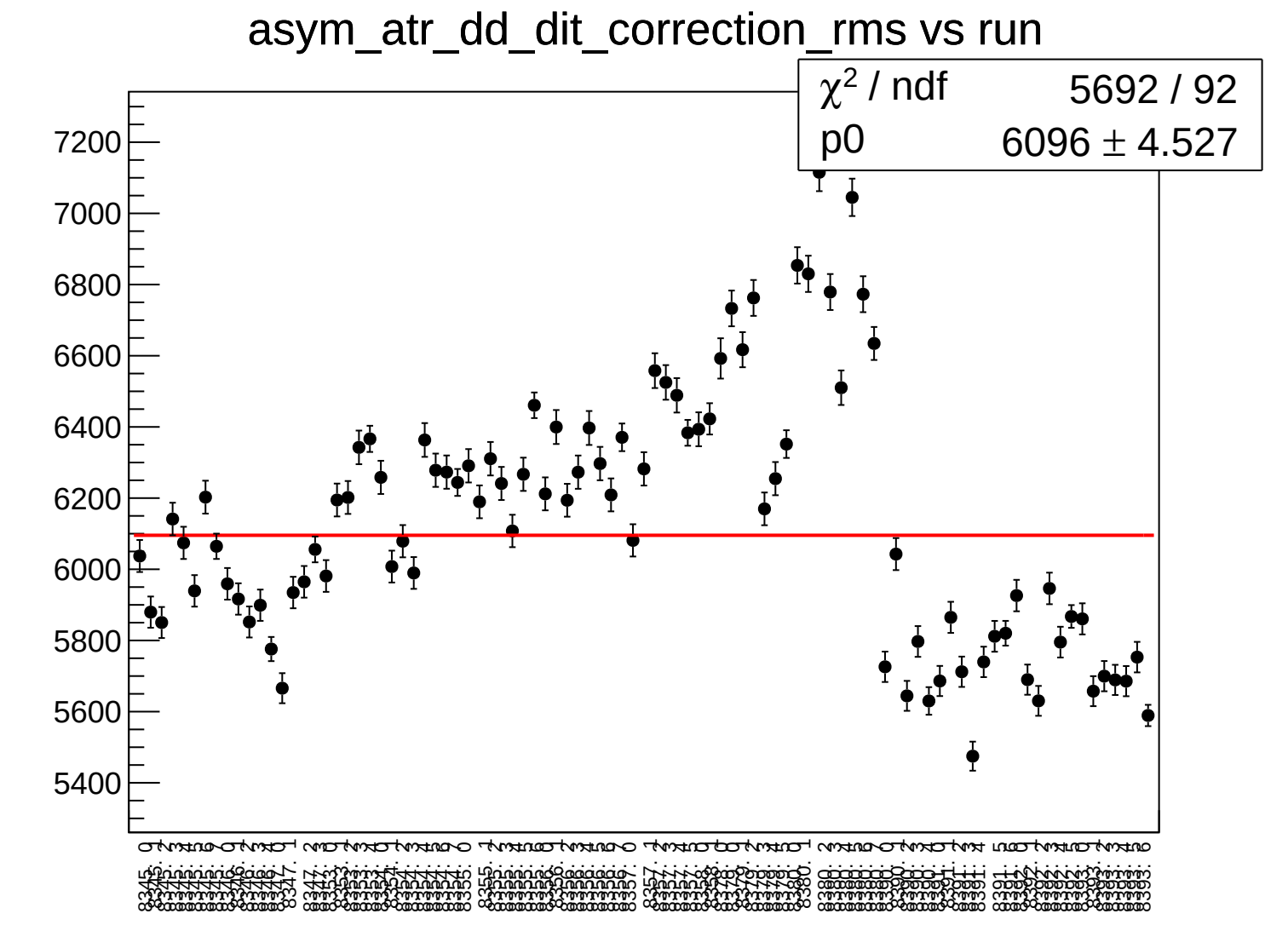

dit_asym_atr_dd_mean vs run
×10^3
χ^2 / ndf 104 / 92
p0 −4312 ± 2089
pull
Entries 93
Mean −178.4
Std Dev 0

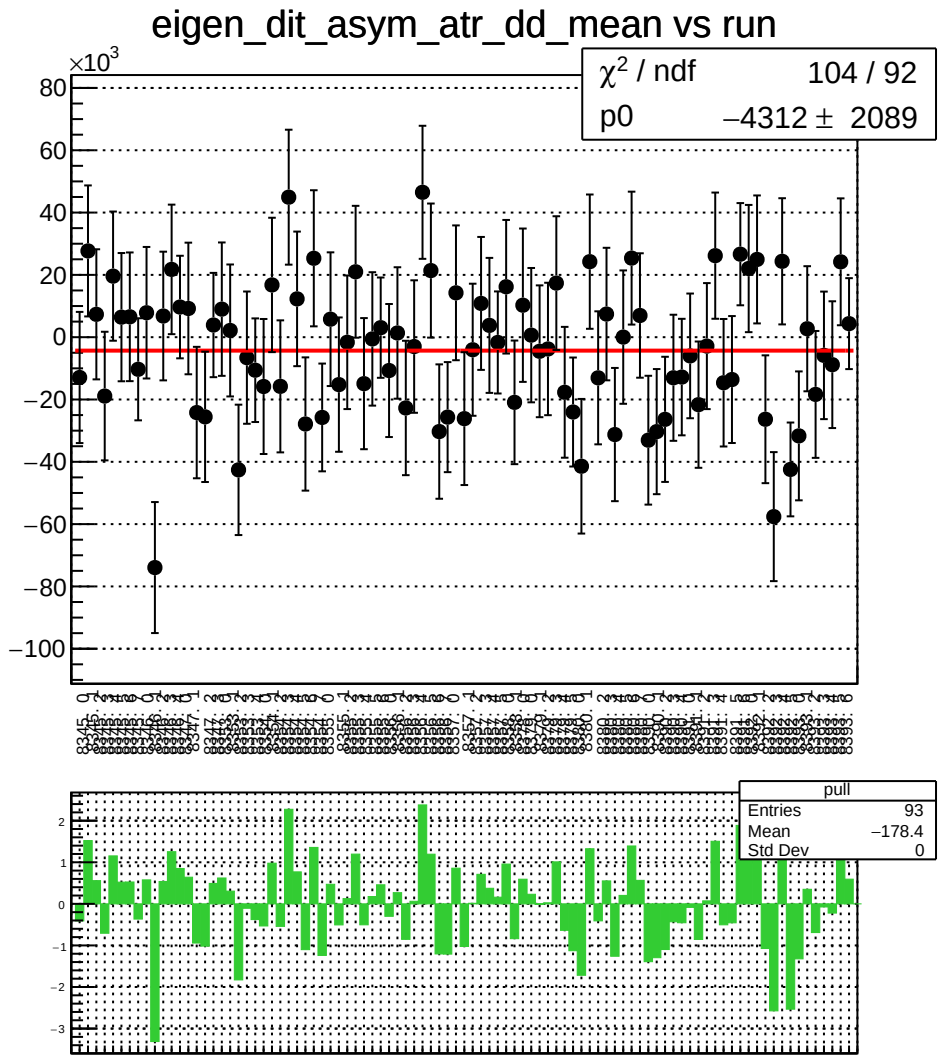

pull1D
Entries 93
Mean 0.01107
Std Dev 1.058

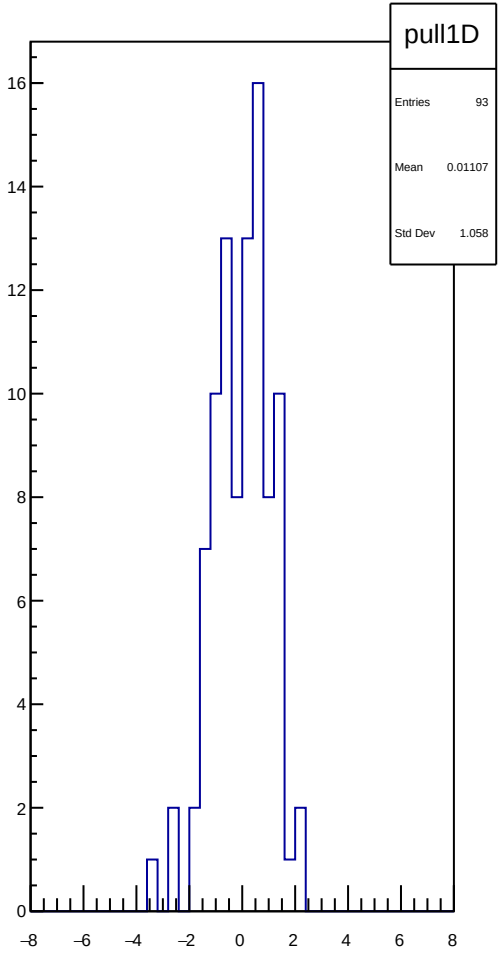

dit_asym_atr_dd_rms vs run
χ^2 / ndf 974.8 / 92
p0 1992 ± 1.477
2100
2050
2000
1950
1900

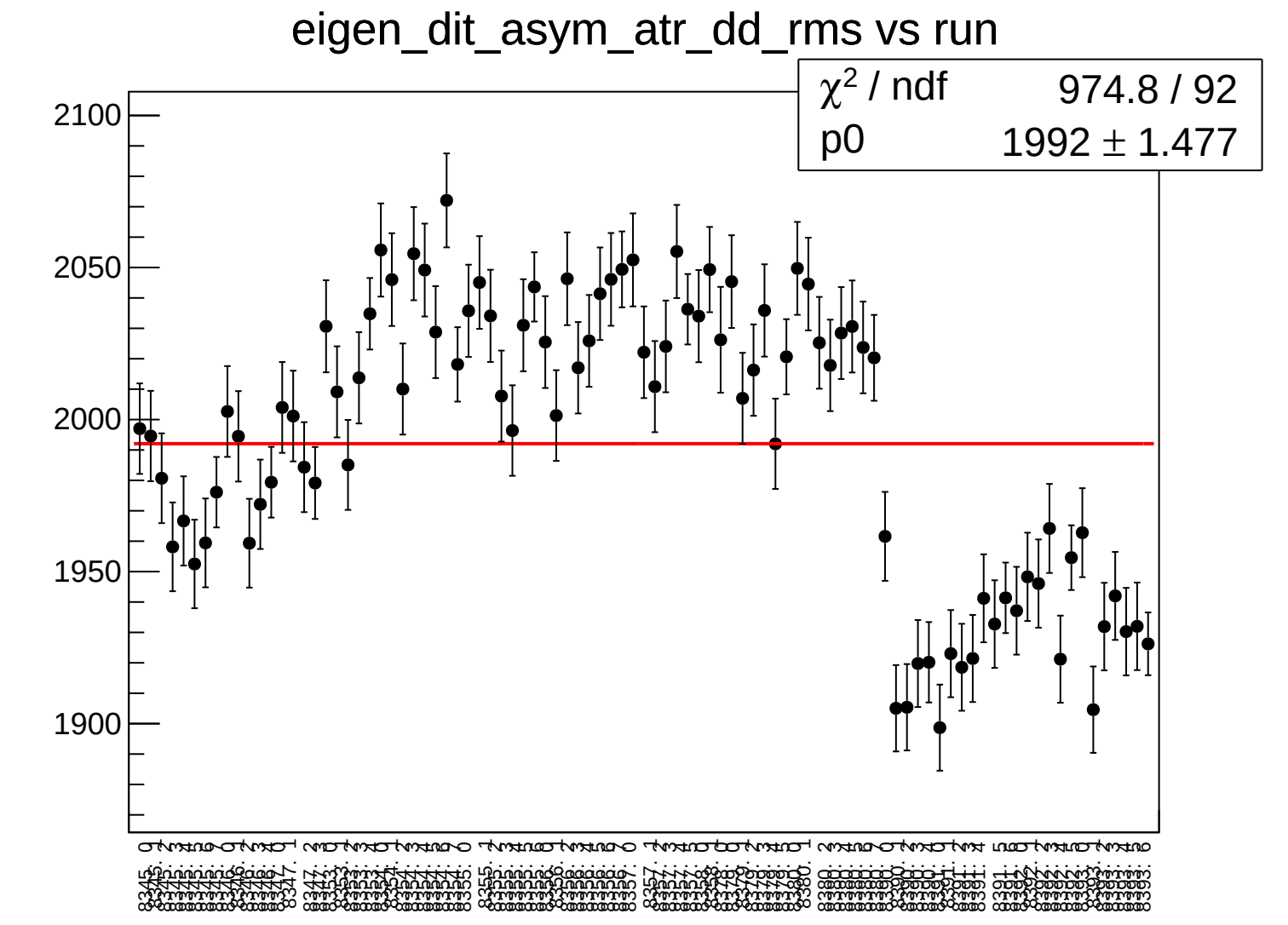

asym_atr_dd_dit_correction_mean vs run
×10^3
χ² / ndf 101.2 / 92
p0 −1.441e+04 ± 6402
200
100
0
−100
−200
−300
pull
Entries 93
Mean −295.7
Std Dev 0
2
1
0
−1
−2
−3

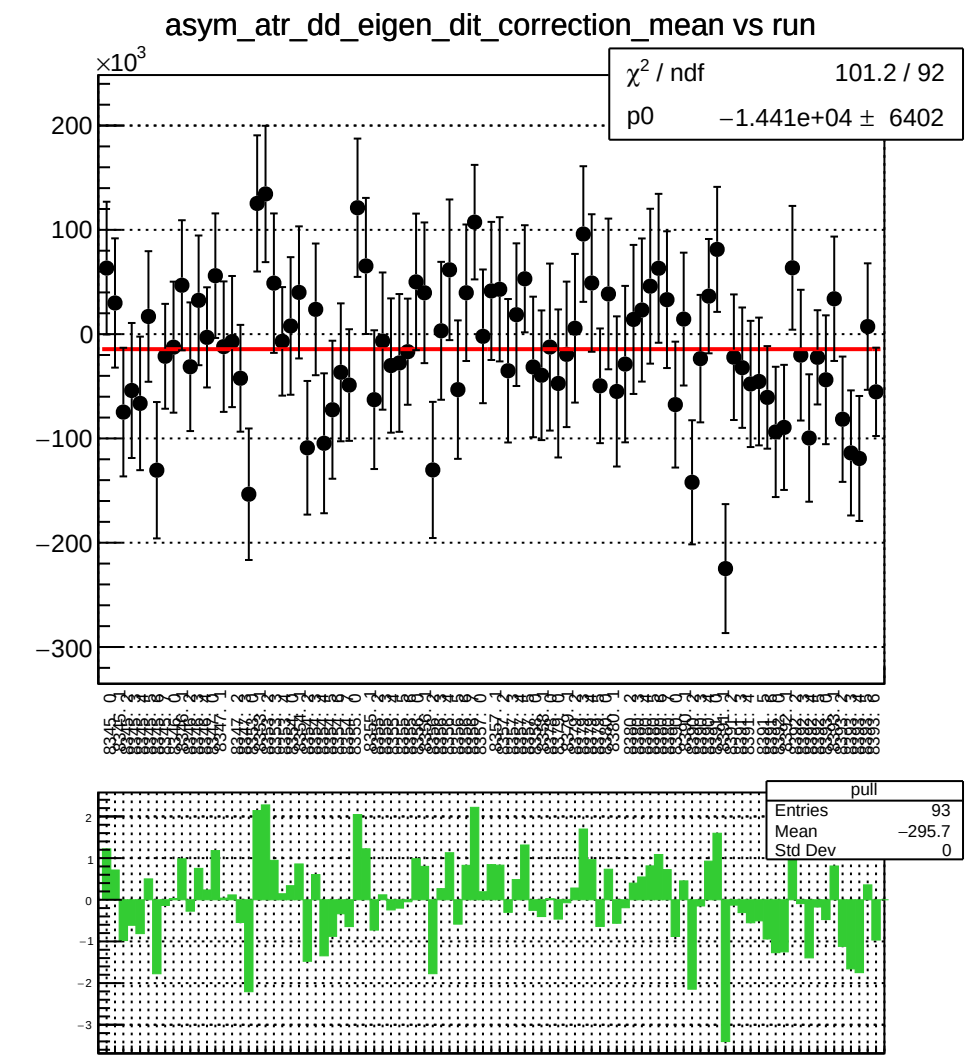

pull1D
Entries 93
Mean 0.0155
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

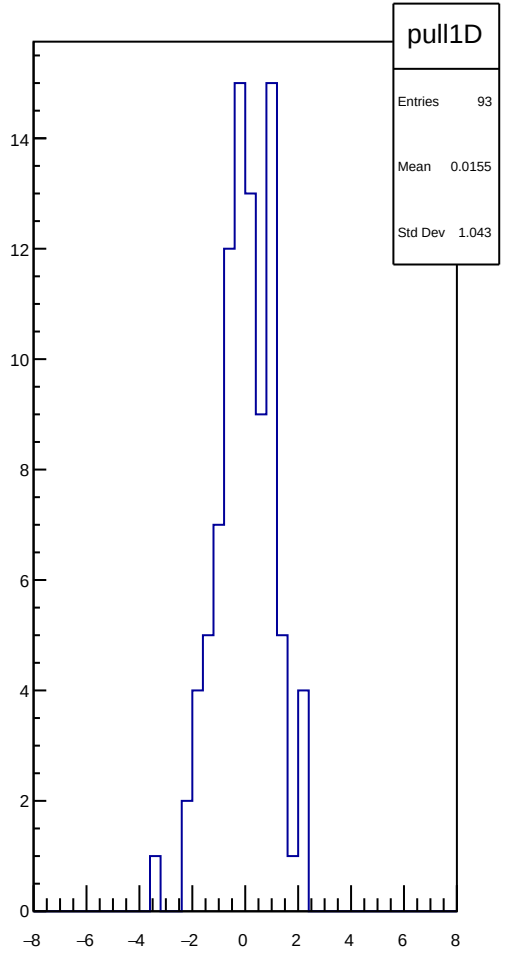

asym_atr_dd_dit_correction_rms vs run
χ^2 / ndf 5692 / 92
p0 6096 ± 4.527
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400

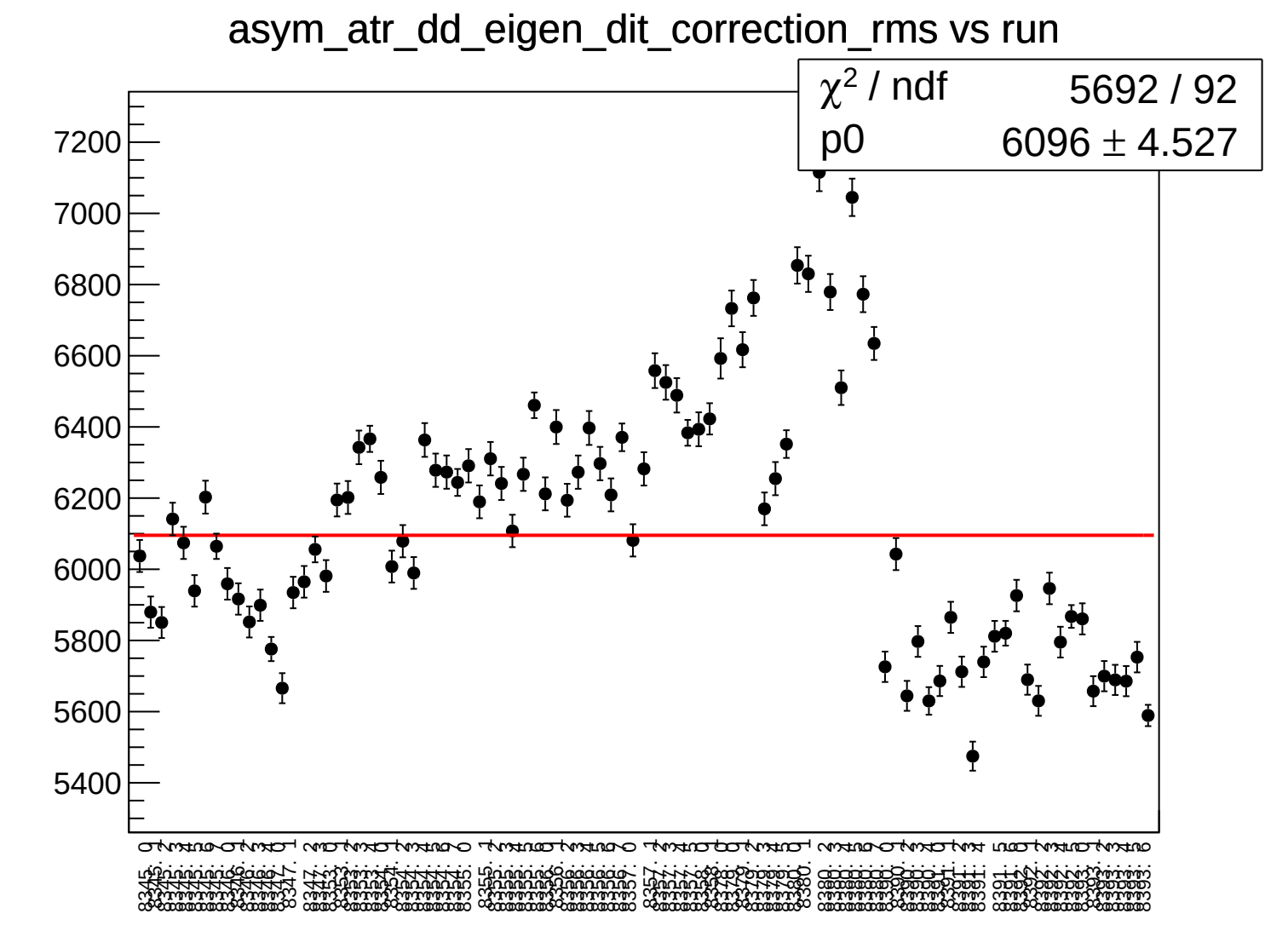

eigen_dit_asym_atr_dd_mean vs run
χ² / ndf 104 / 92
p0 −4312 ± 2089
pull
Entries 93
Mean −178.4
Std Dev 0

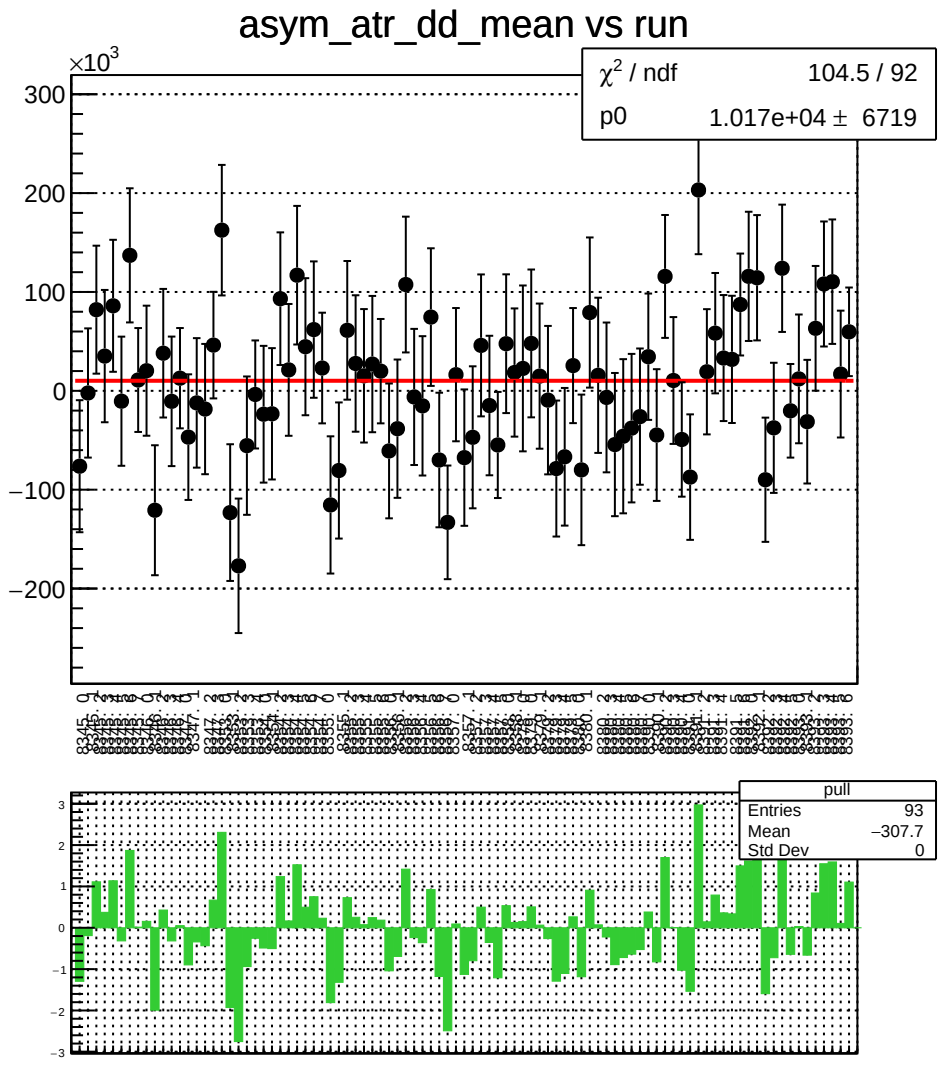

pull1D
Entries 93
Mean 0.01107
Std Dev 1.058

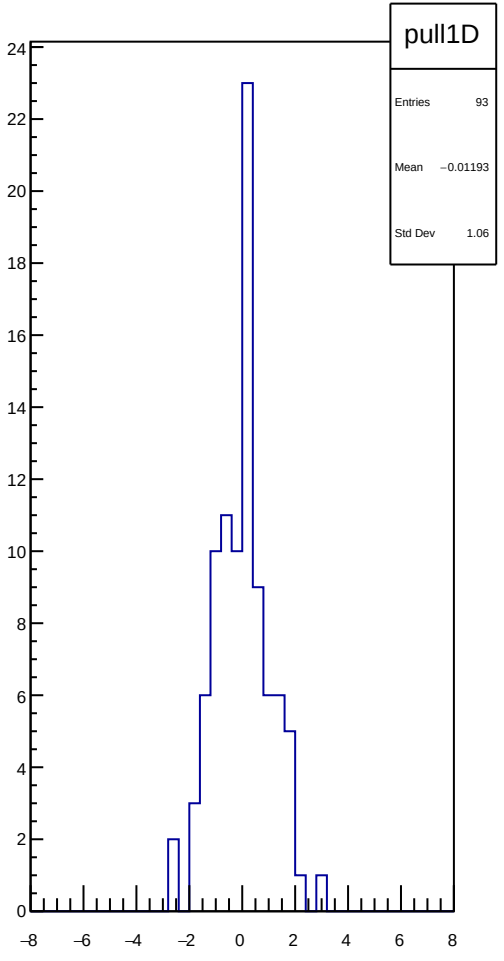

eigen_dit_asym_atr_dd_rms vs run
χ^2 / ndf 974.8 / 92
p0 1992 ± 1.477
2100
2050
2000
1950
1900

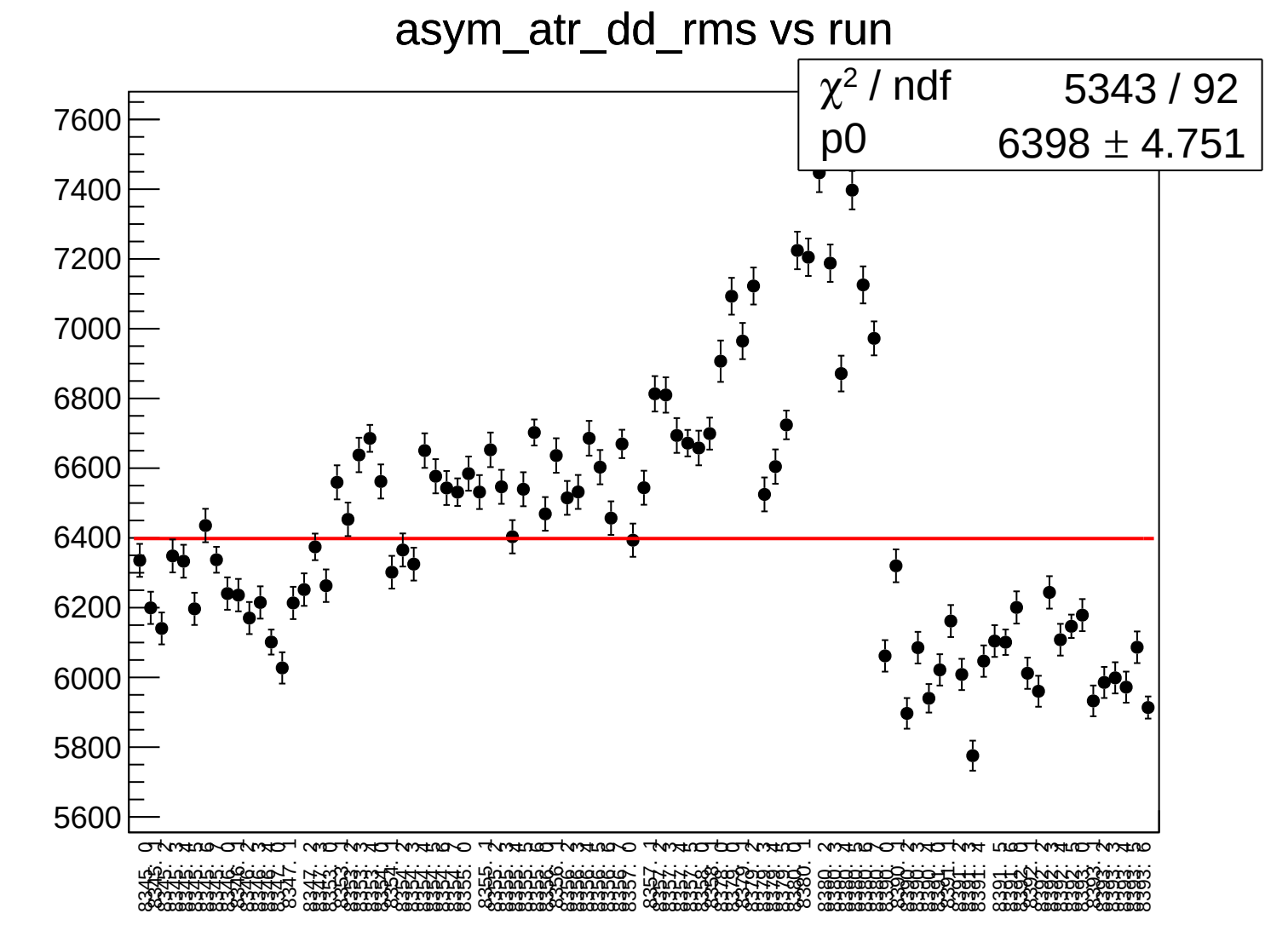

asym_atr_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 101.2 / 92
p0 −1.441e+04 ± 6402
pull
Entries 93
Mean −295.7
Std Dev 0

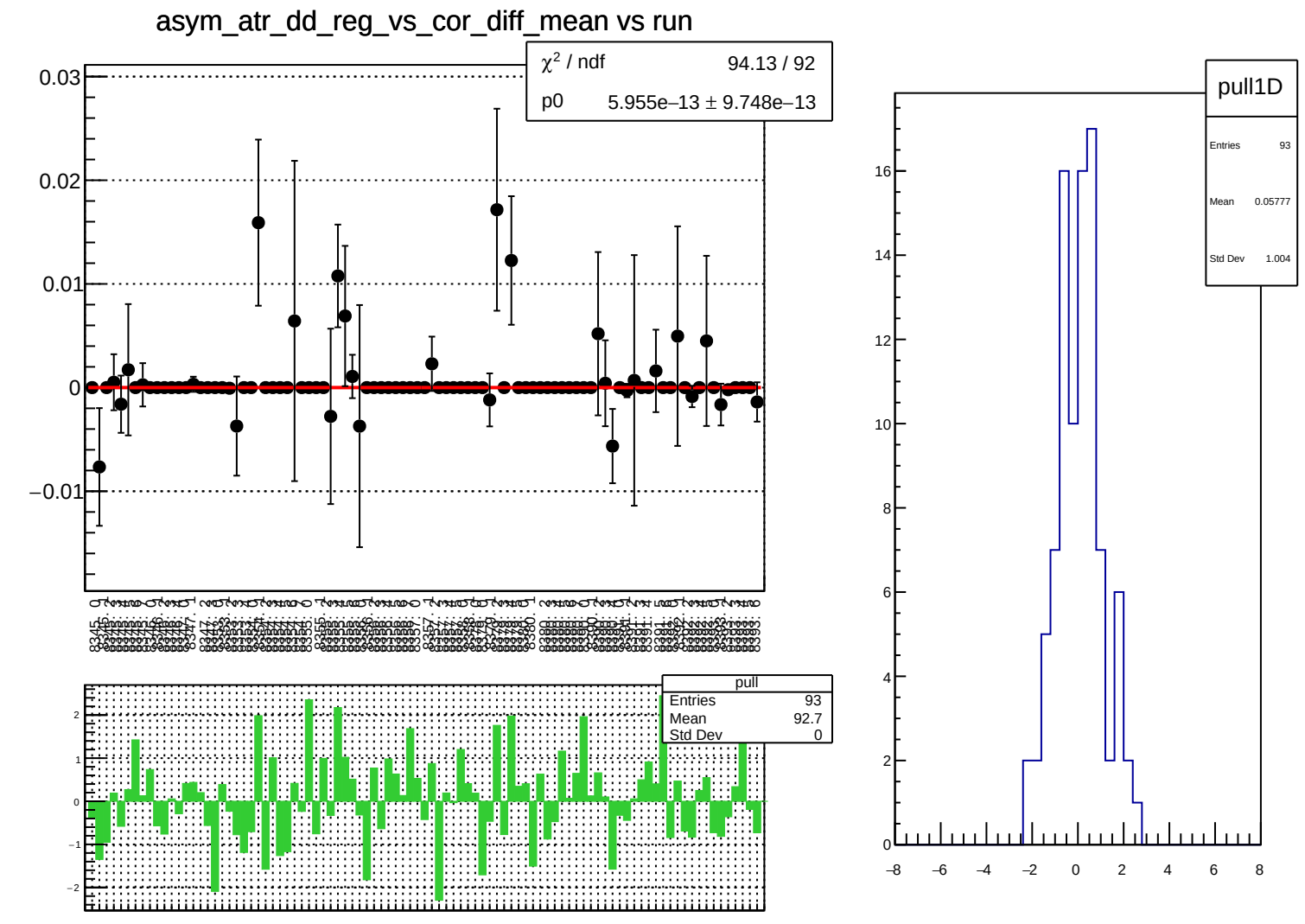

pull1D
Entries 93
Mean 0.0155
Std Dev 1.043

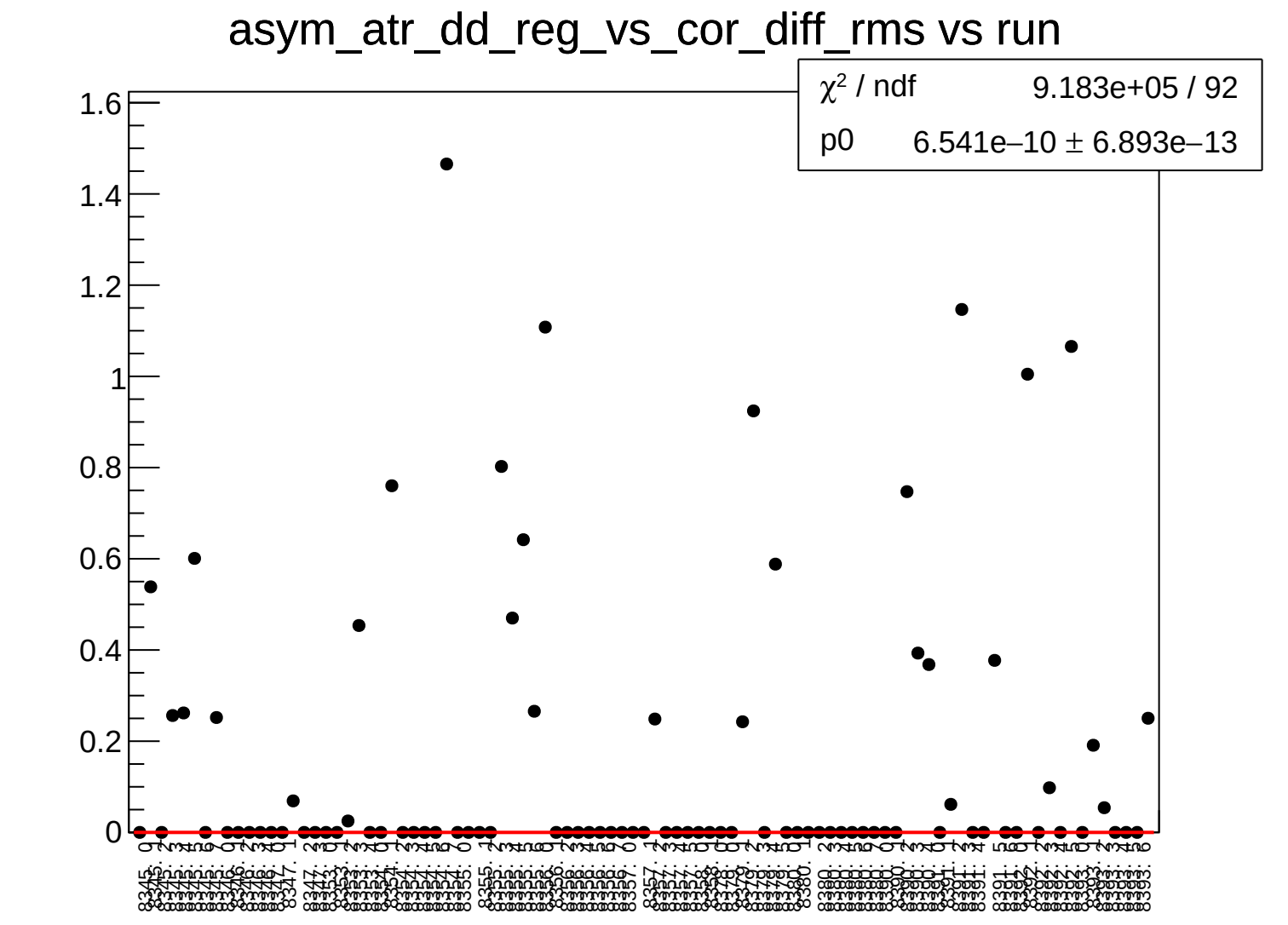

asym_atr_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 5692 / 92
p0 6096 ± 4.527
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400

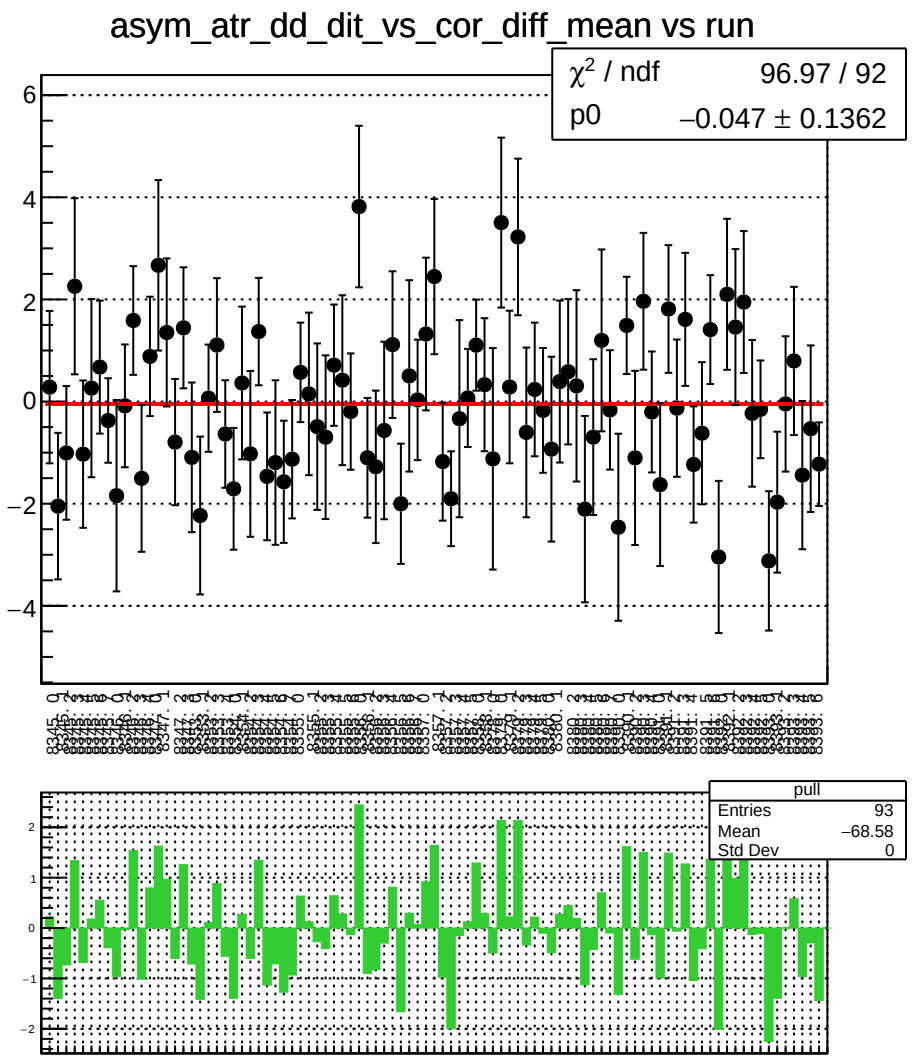

asym_atr_dd_mean vs run
×10^3
χ² / ndf 104.5 / 92
p0 1.017e+04 ± 6719
300
200
100
0
−100
−200
pull
Entries 93
Mean −307.7
Std Dev 0
3
2
1
0
−1
−2
−3

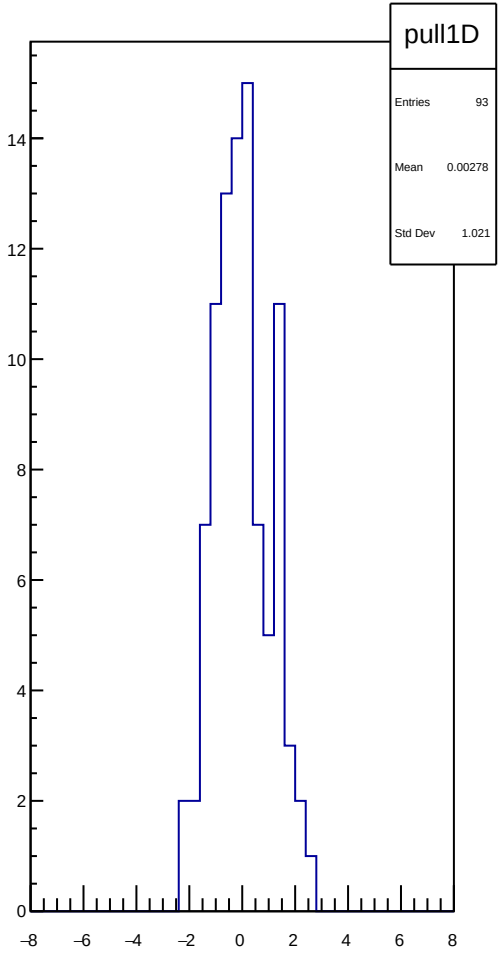

pull1D
Entries 93
Mean −0.01193
Std Dev 1.06
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

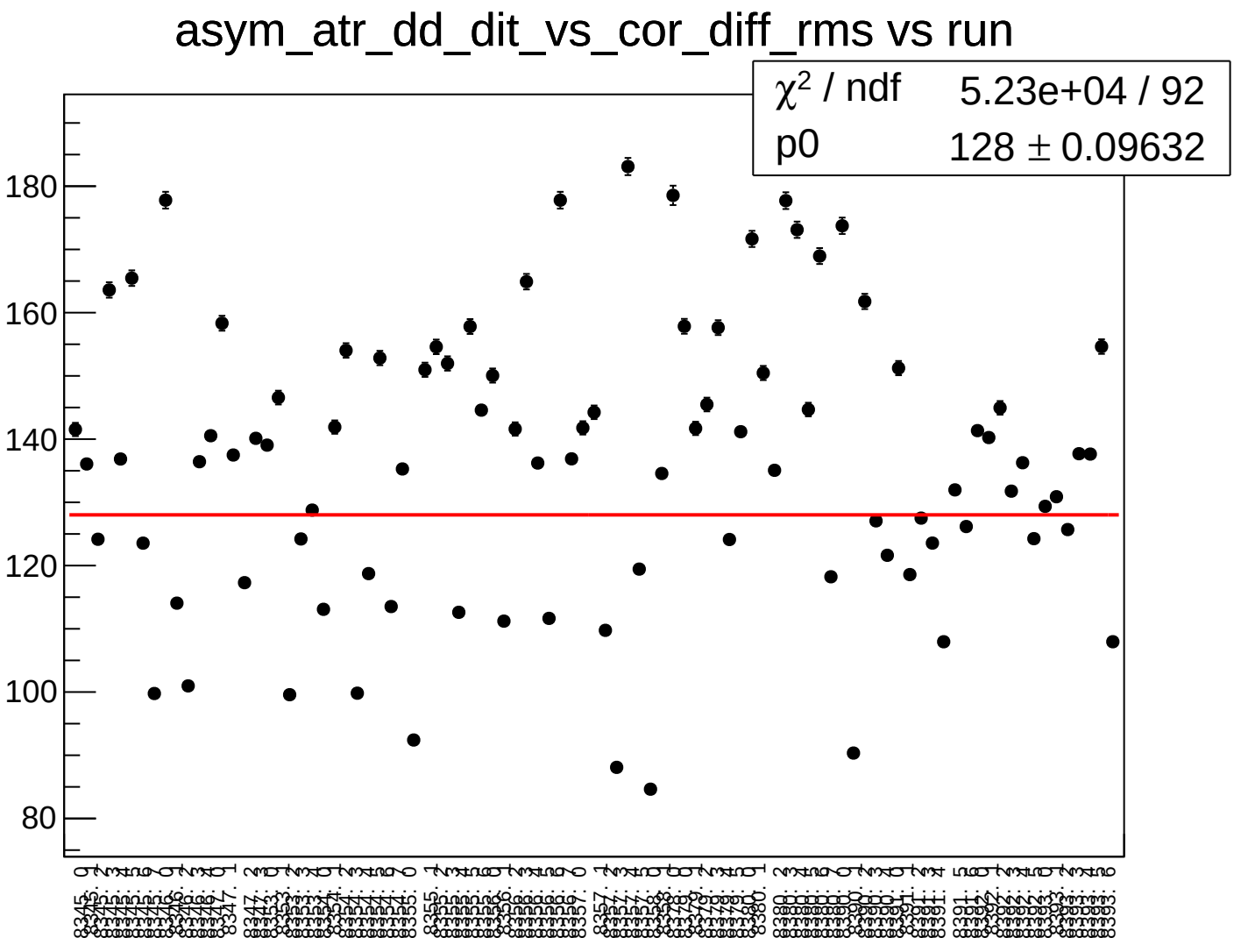

asym_atr_dd_rms vs run
χ^2 / ndf 5343 / 92
p0 6398 ± 4.751
7600
7400
7200
7000
6800
6600
6400
6200
6000
5800
5600

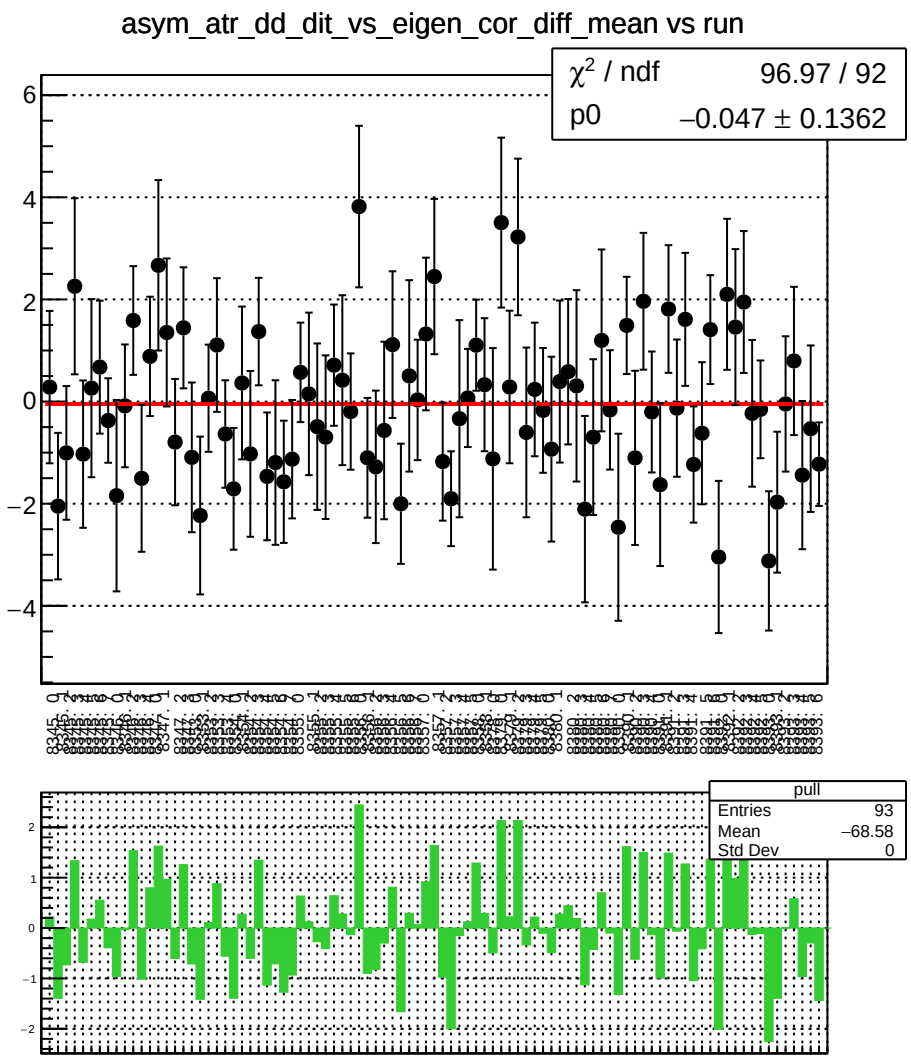

asym_atr_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 94.13 / 92
p0 5.955e−13 ± 9.748e−13
0.03
0.02
0.01
0
−0.01
pull
Entries 93
Mean 92.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.05777
Std Dev 1.004
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

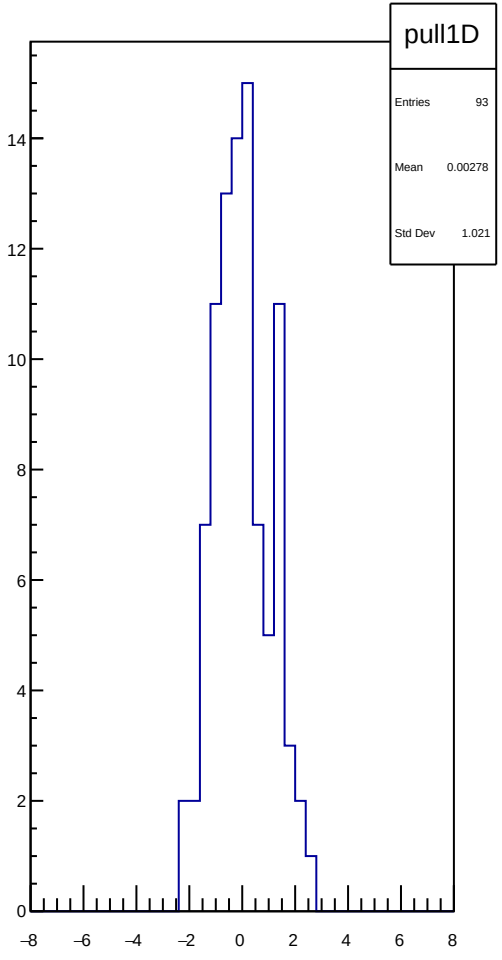

asym_atr_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.183e+05 / 92
p0 6.541e−10 ± 6.893e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

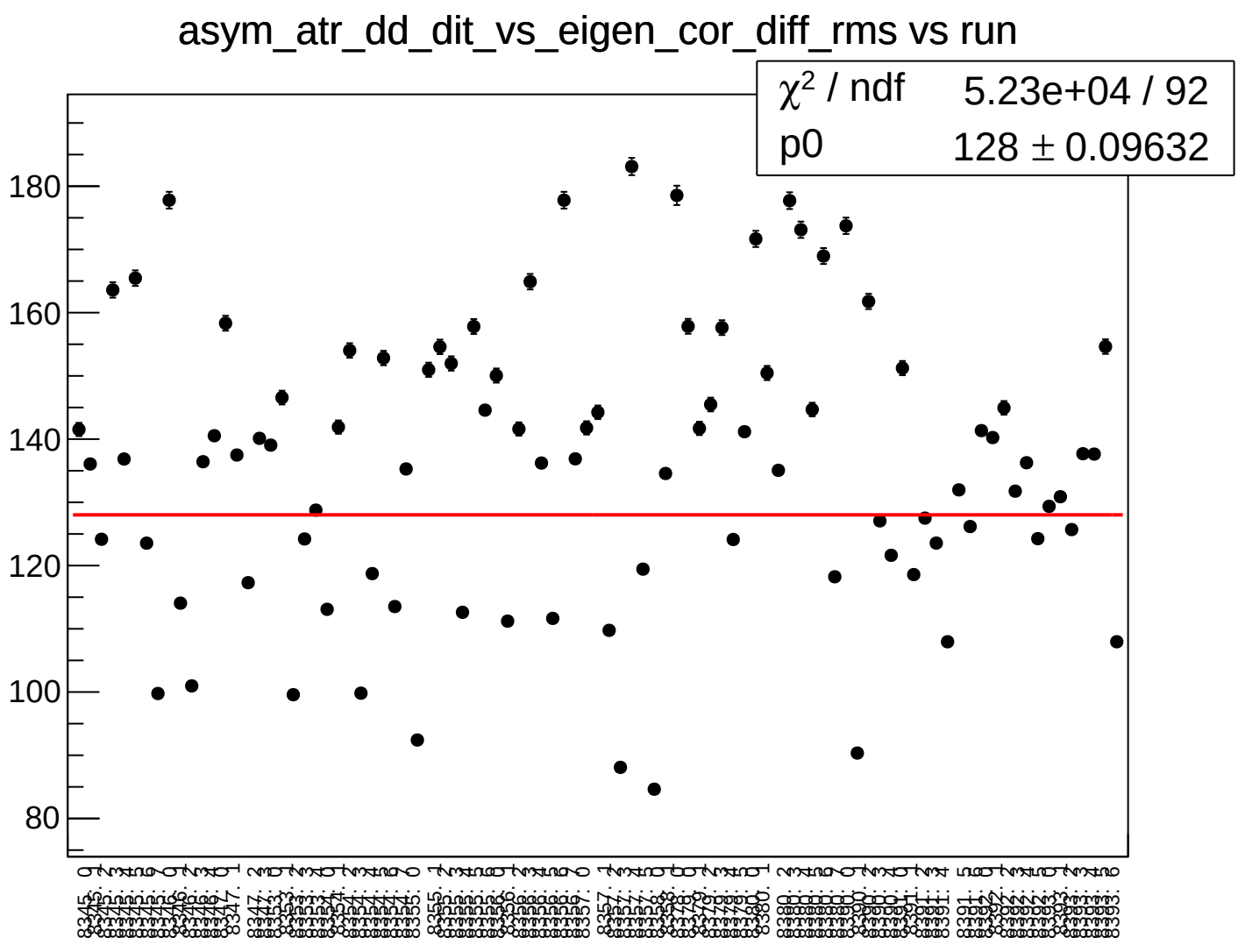

asym_atr_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 96.97 / 92
p0 −0.047 ± 0.1362
pull
Entries 93
Mean −68.58
Std Dev 0

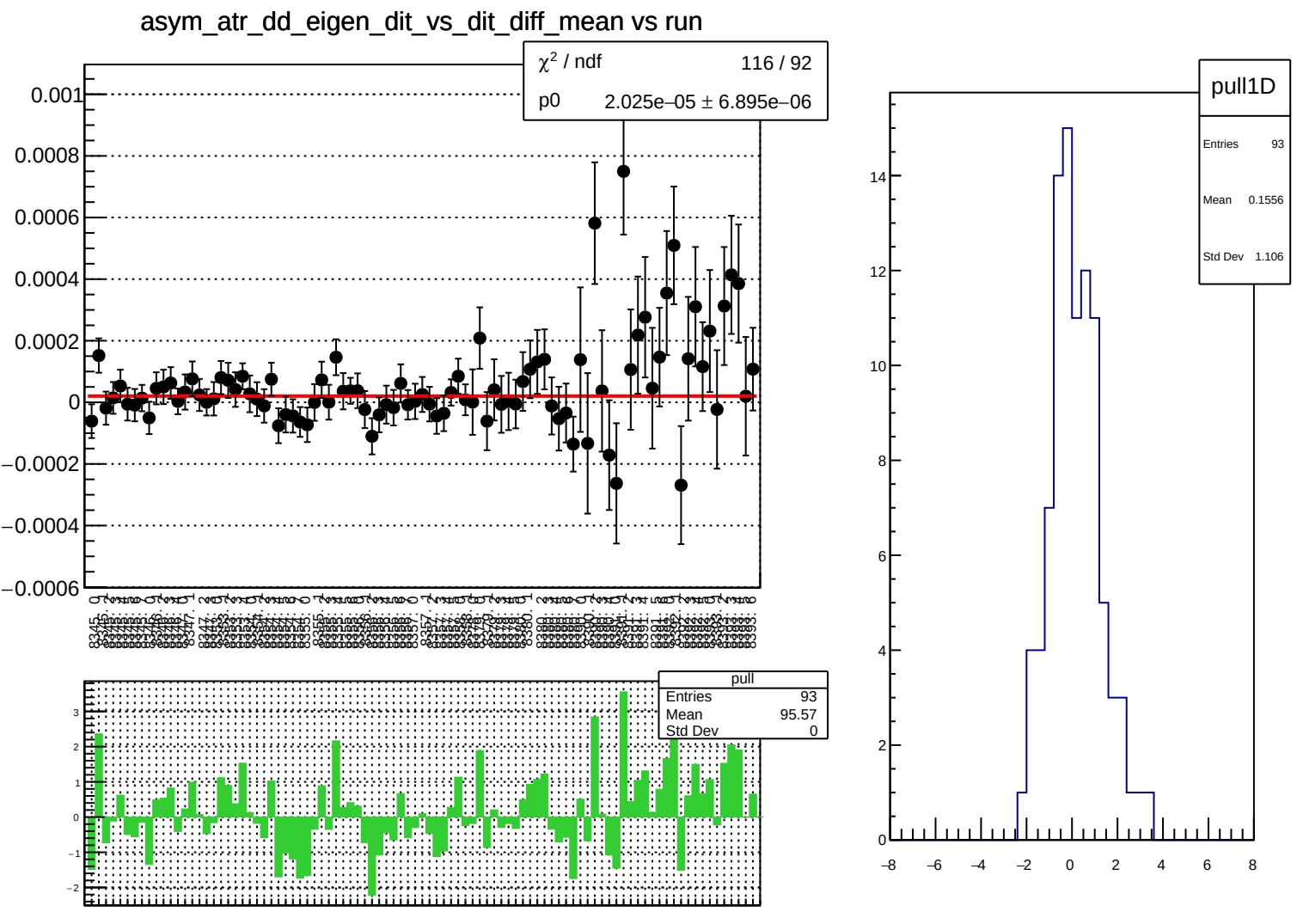

pull1D
Entries 93
Mean 0.00278
Std Dev 1.021

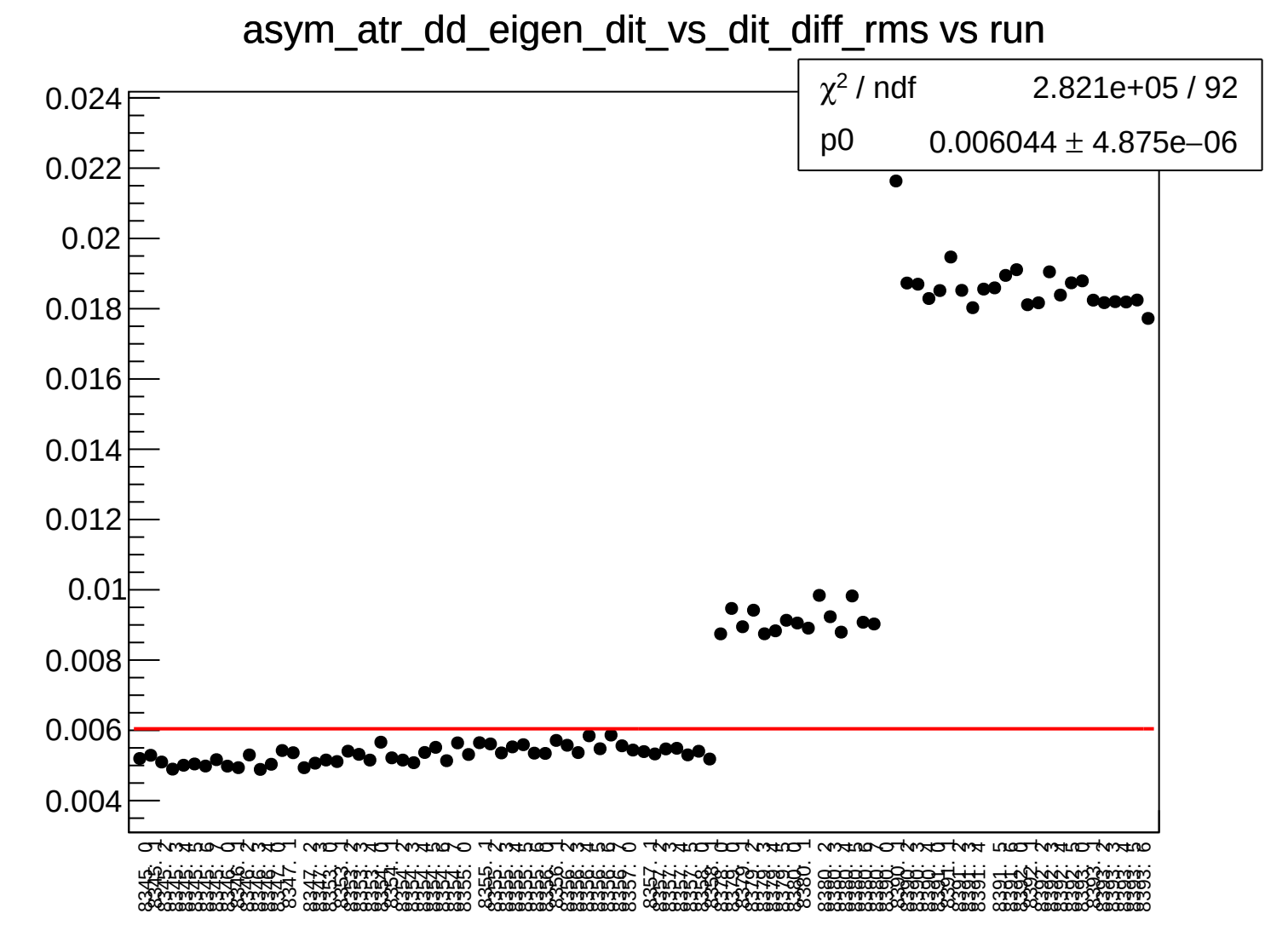

asym_atr_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.23e+04 / 92
p0 128 ± 0.09632
180
160
140
120
100
80

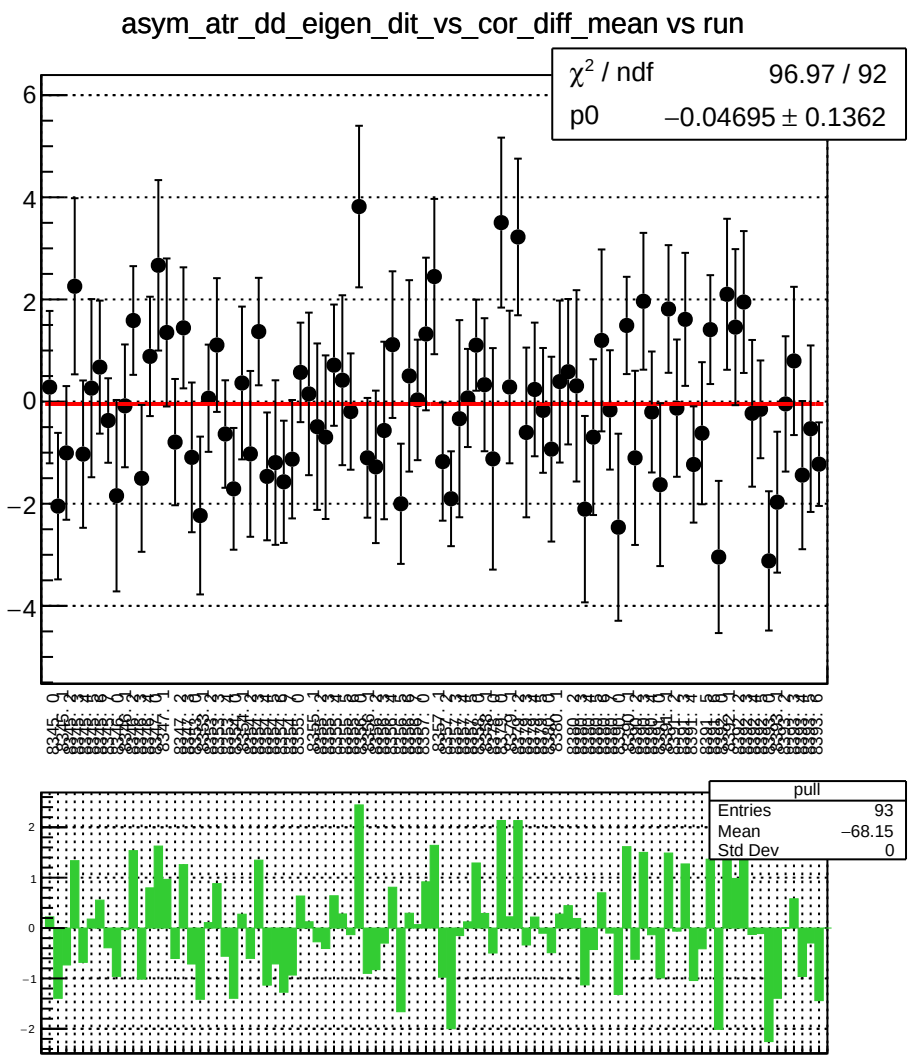

asym_atr_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.97 / 92
p0 −0.047 ± 0.1362
pull
Entries 93
Mean −68.58
Std Dev 0

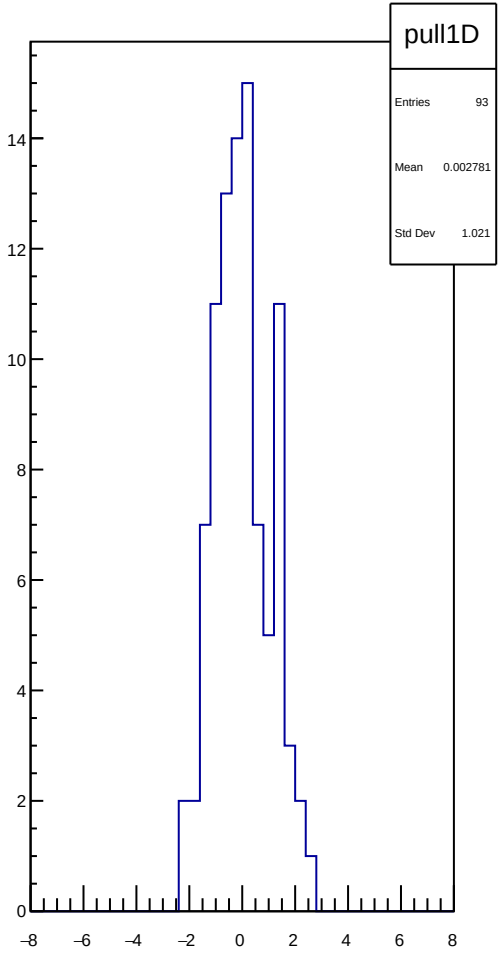

pull1D
Entries 93
Mean 0.00278
Std Dev 1.021

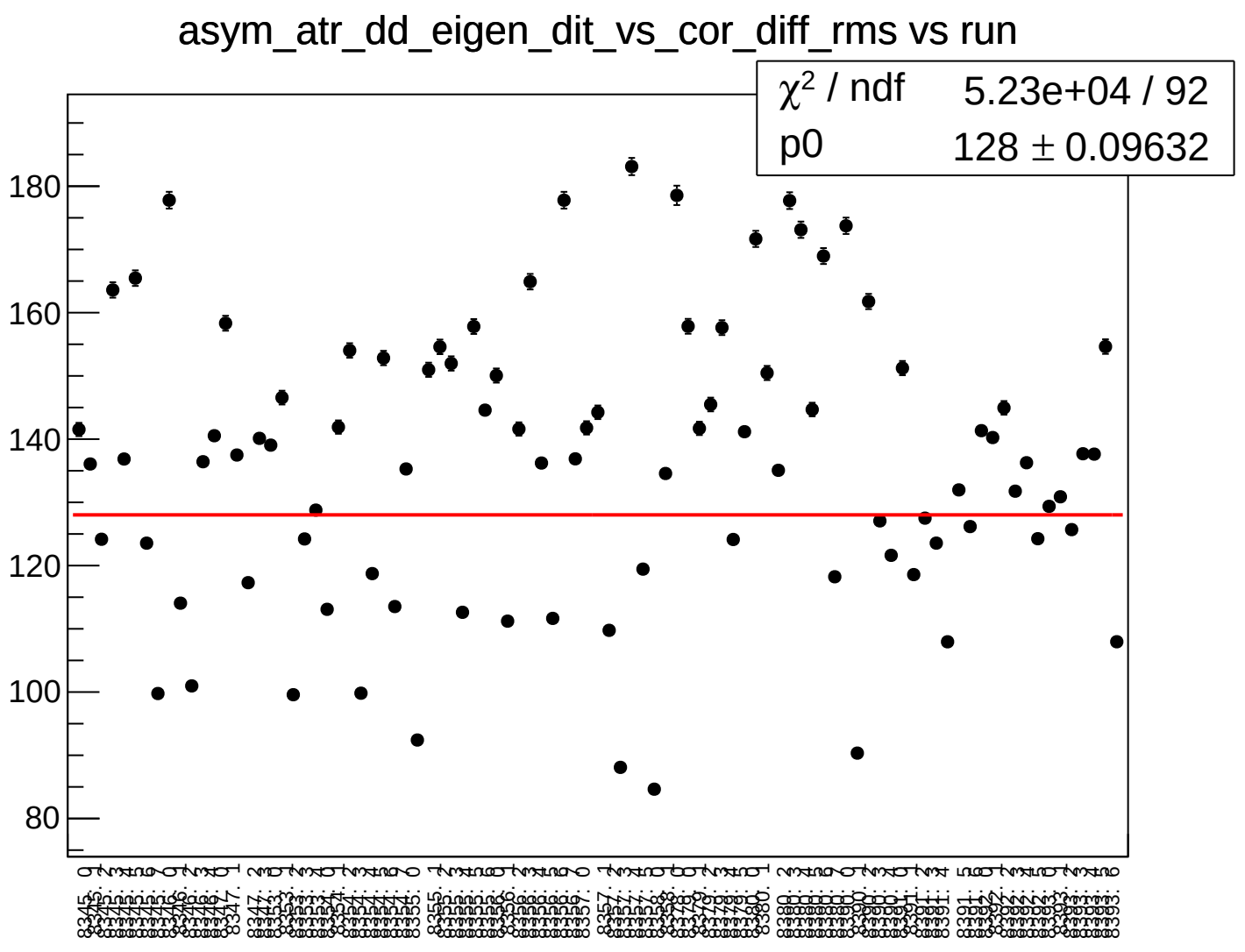

asym_atr_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.23e+04 / 92
p0 128 ± 0.09632
180
160
140
120
100
80

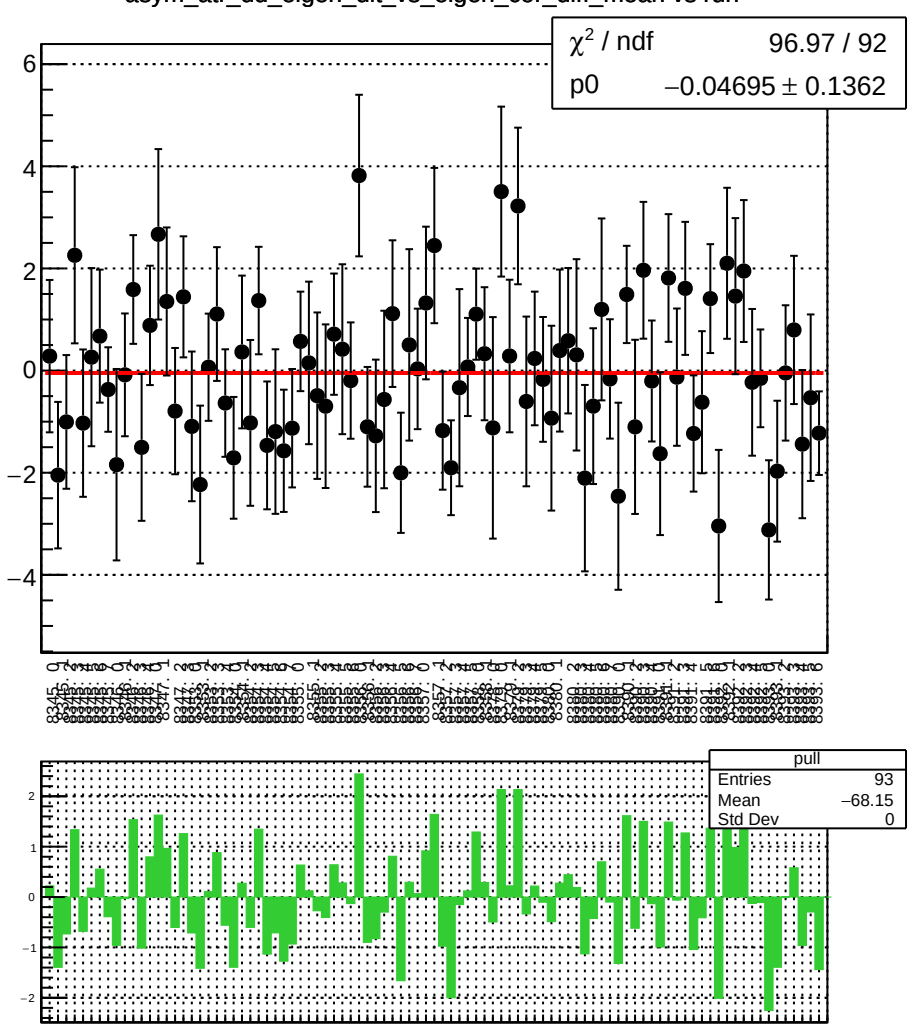

asym_atr_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 116 / 92
p0 2.025e−05 ± 6.895e−06
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
pull
Entries 93
Mean 95.57
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.1556
Std Dev 1.106
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

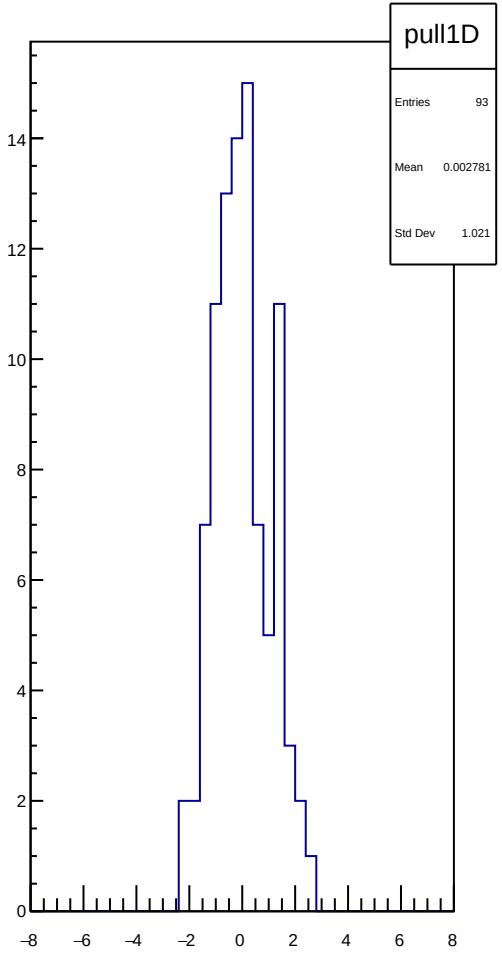

asym_atr_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.821e+05 / 92
p0 0.006044 ± 4.875e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

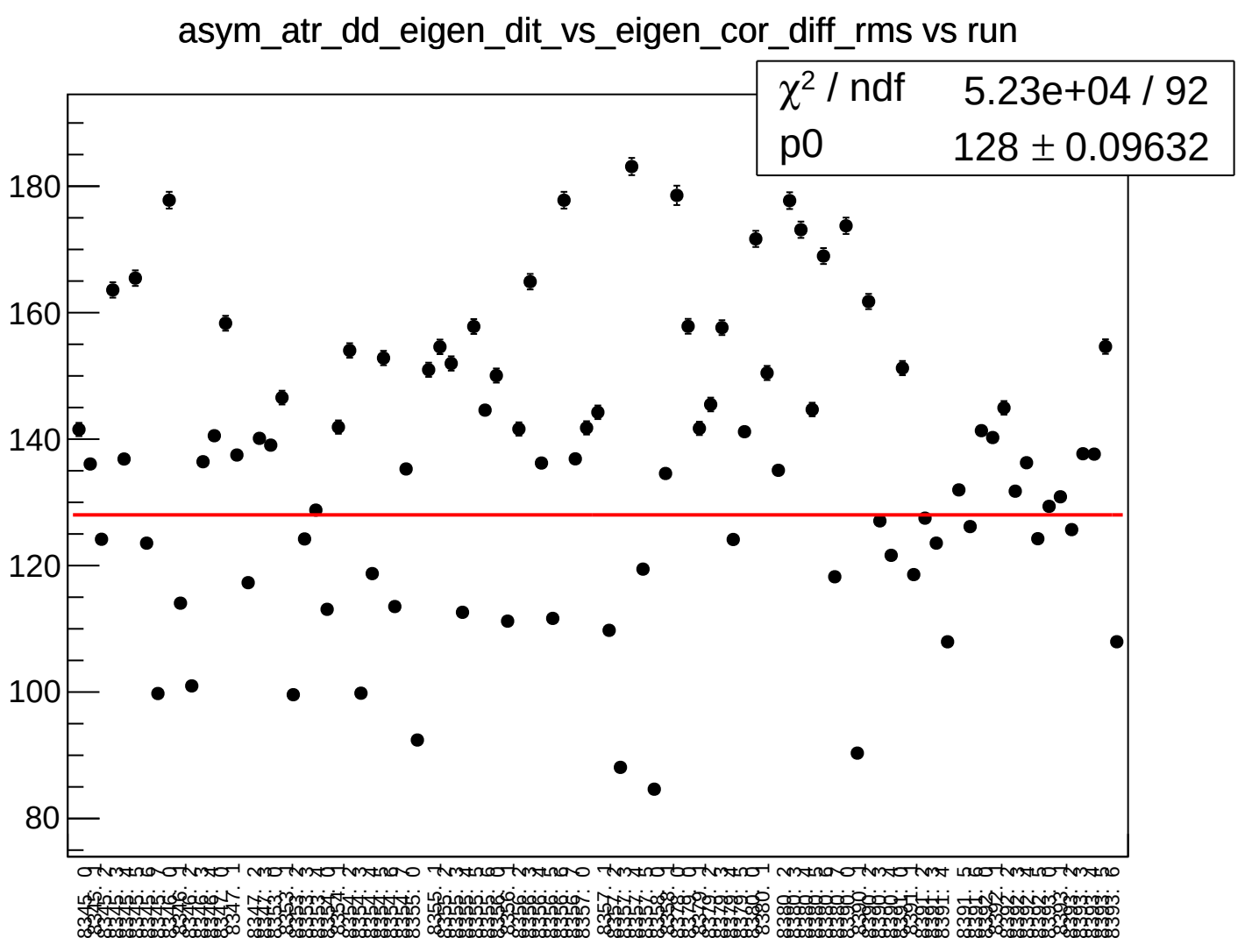

asym_atr_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 96.97 / 92
p0 −0.04695 ± 0.1362
pull
Entries 93
Mean −68.15
Std Dev 0

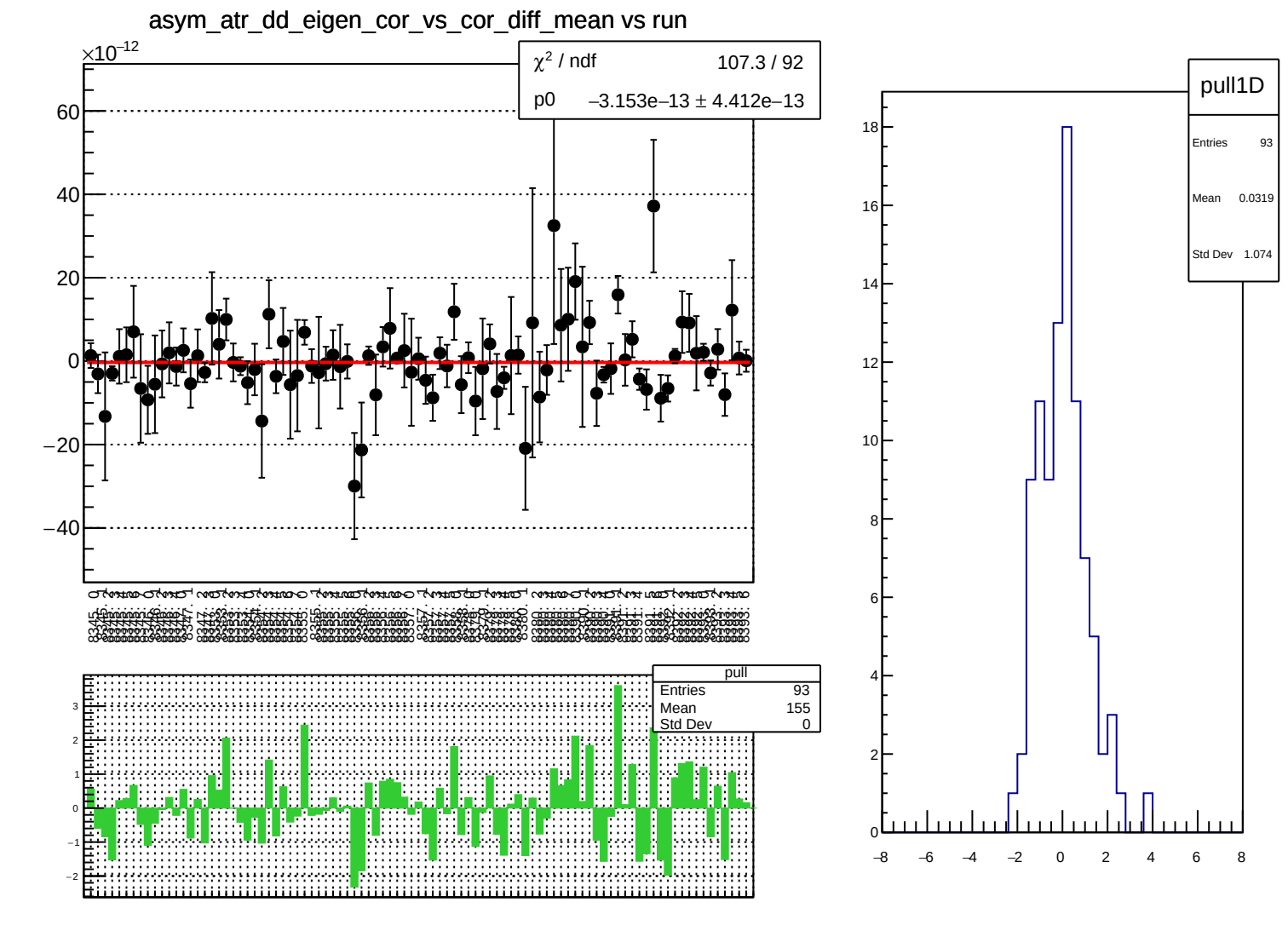

pull1D
Entries 93
Mean 0.002781
Std Dev 1.021

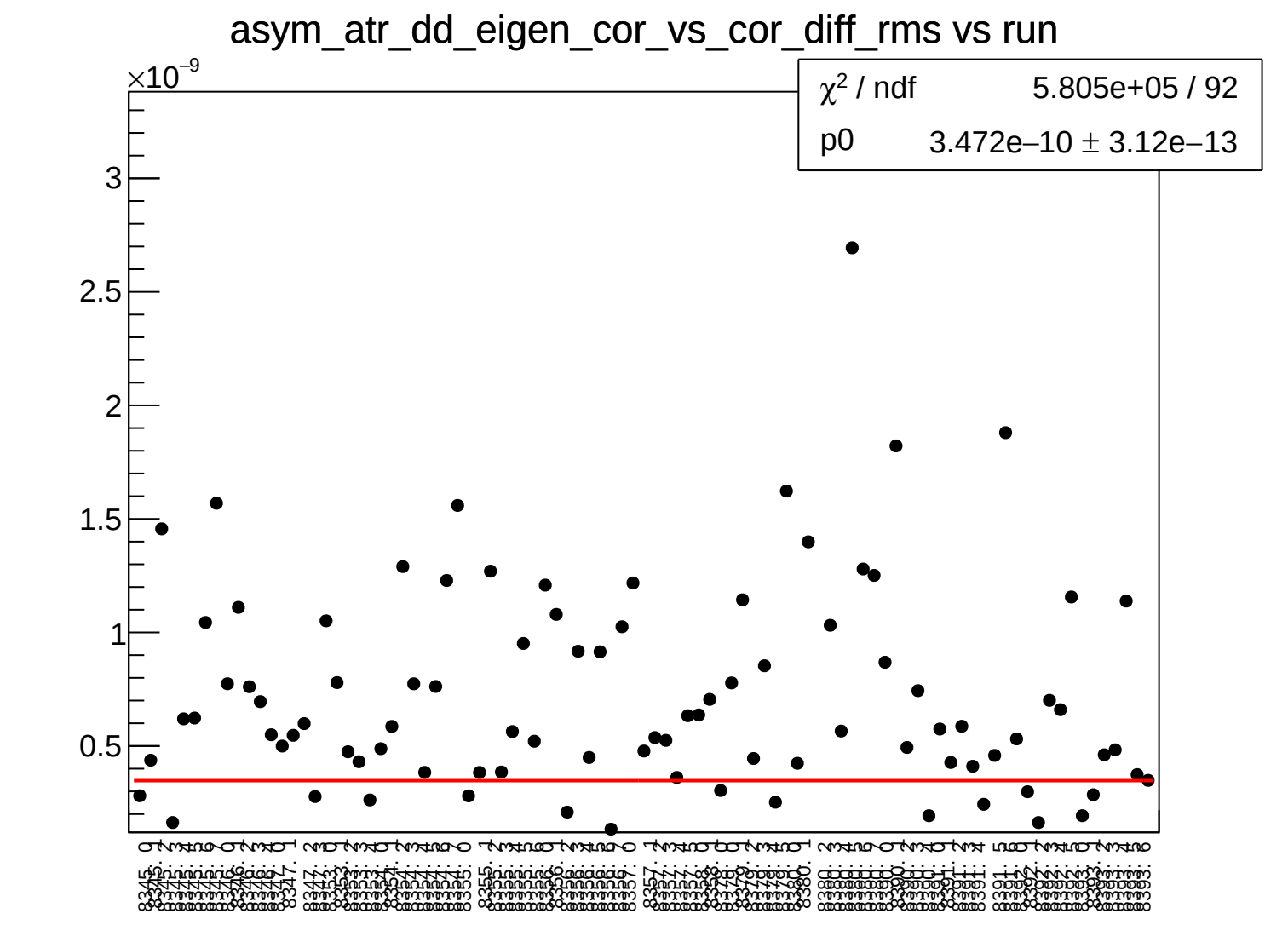

asym_atr_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.23e+04 / 92
p0 128 ± 0.09632
180
160
140
120
100
80

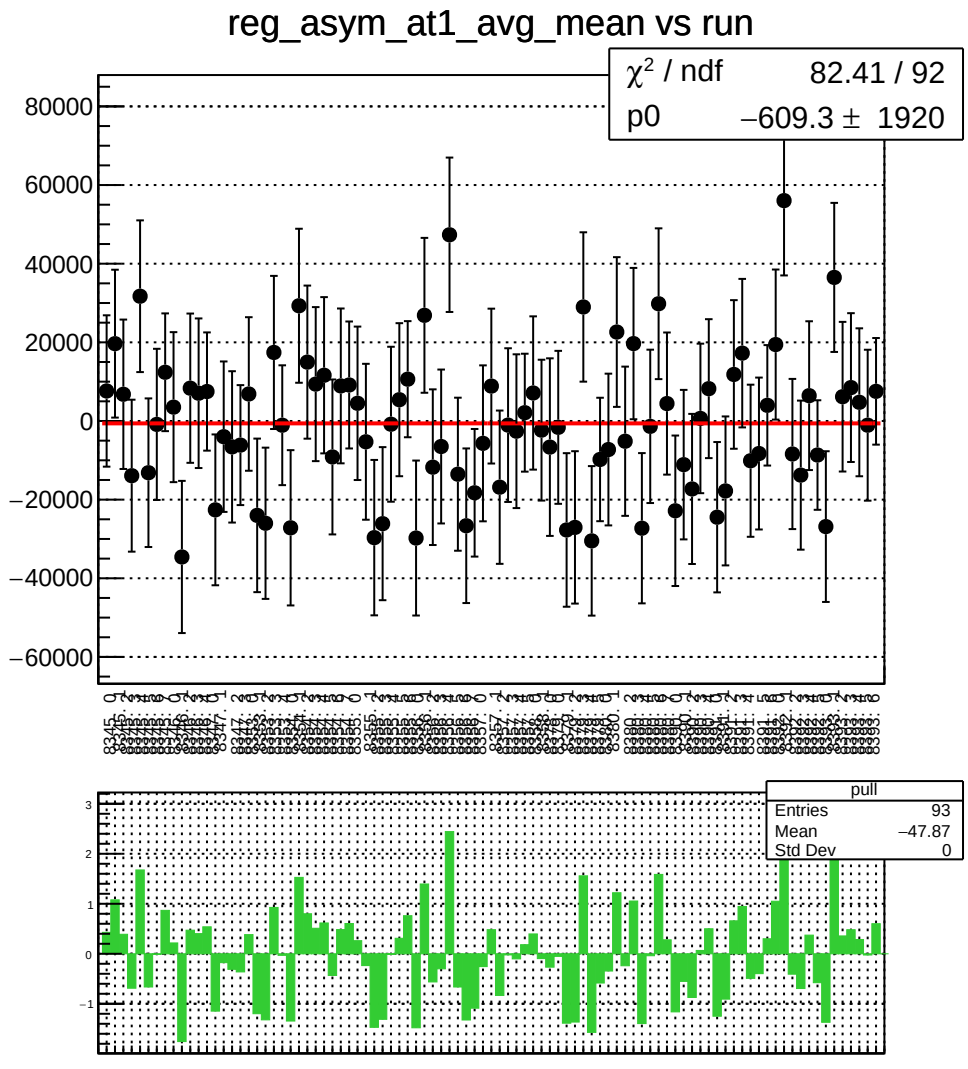

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.97 / 92
p0 −0.04695 ± 0.1362
pull
Entries 93
Mean −68.15
Std Dev 0

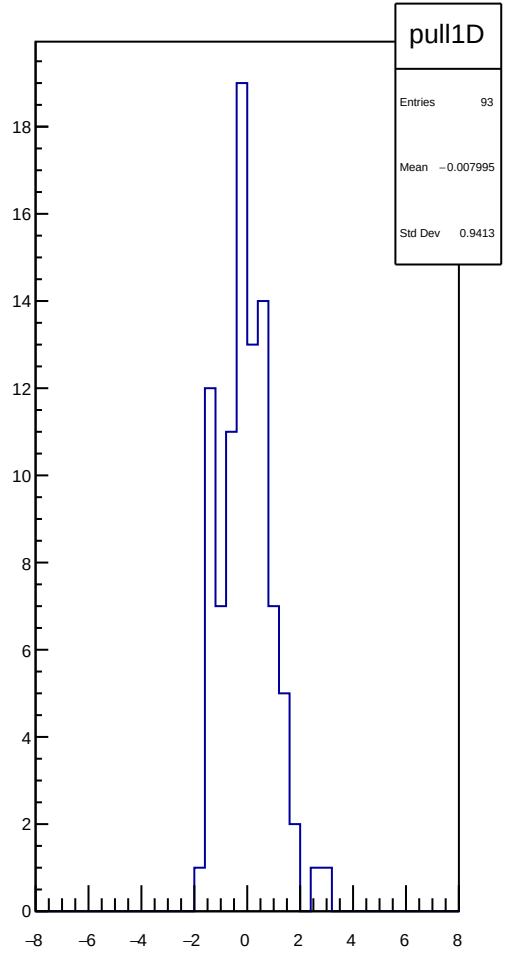

pull1D
Entries 93
Mean 0.002781
Std Dev 1.021

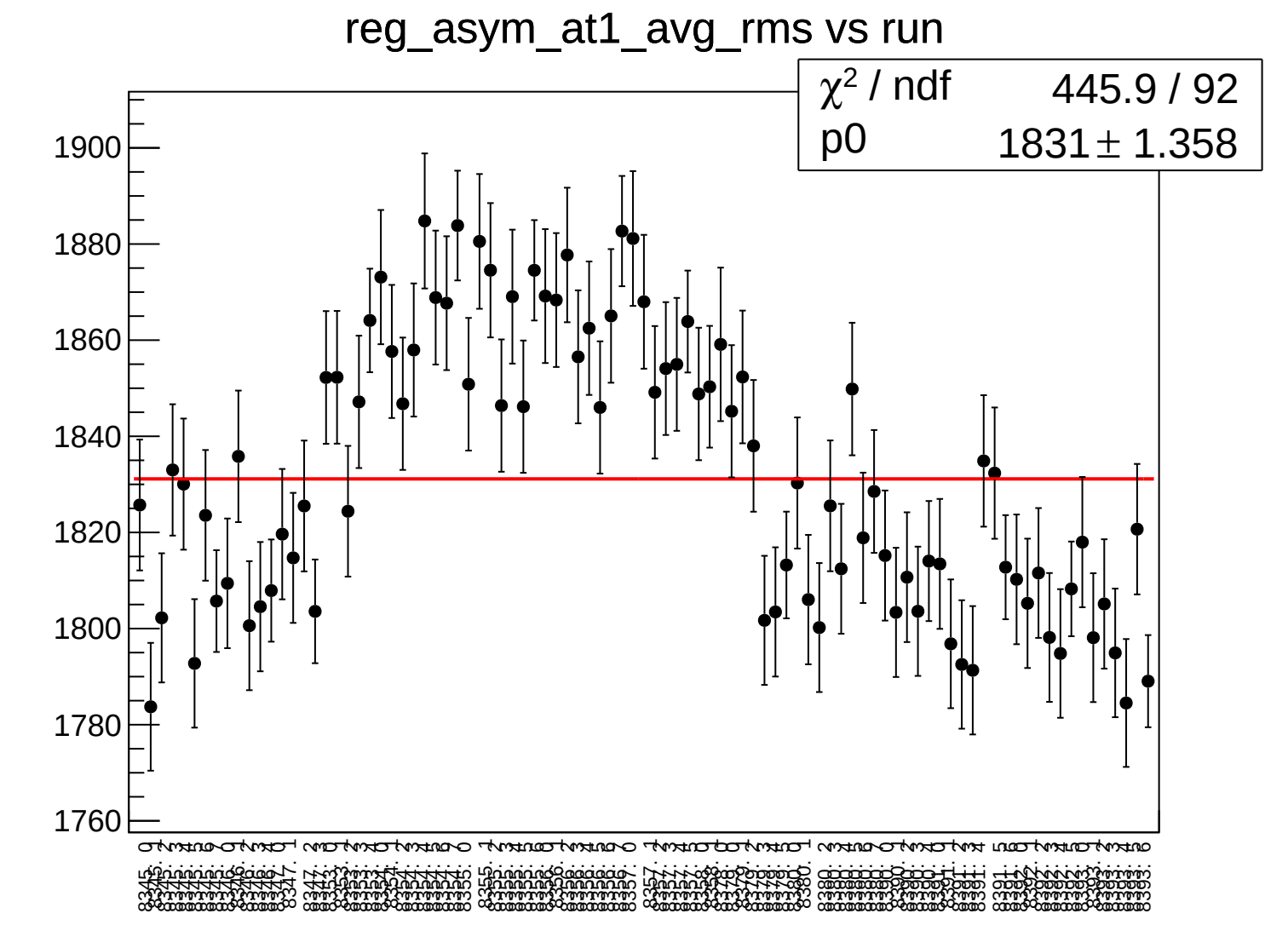

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.23e+04 / 92
p0 128 ± 0.09632
180
160
140
120
100
80

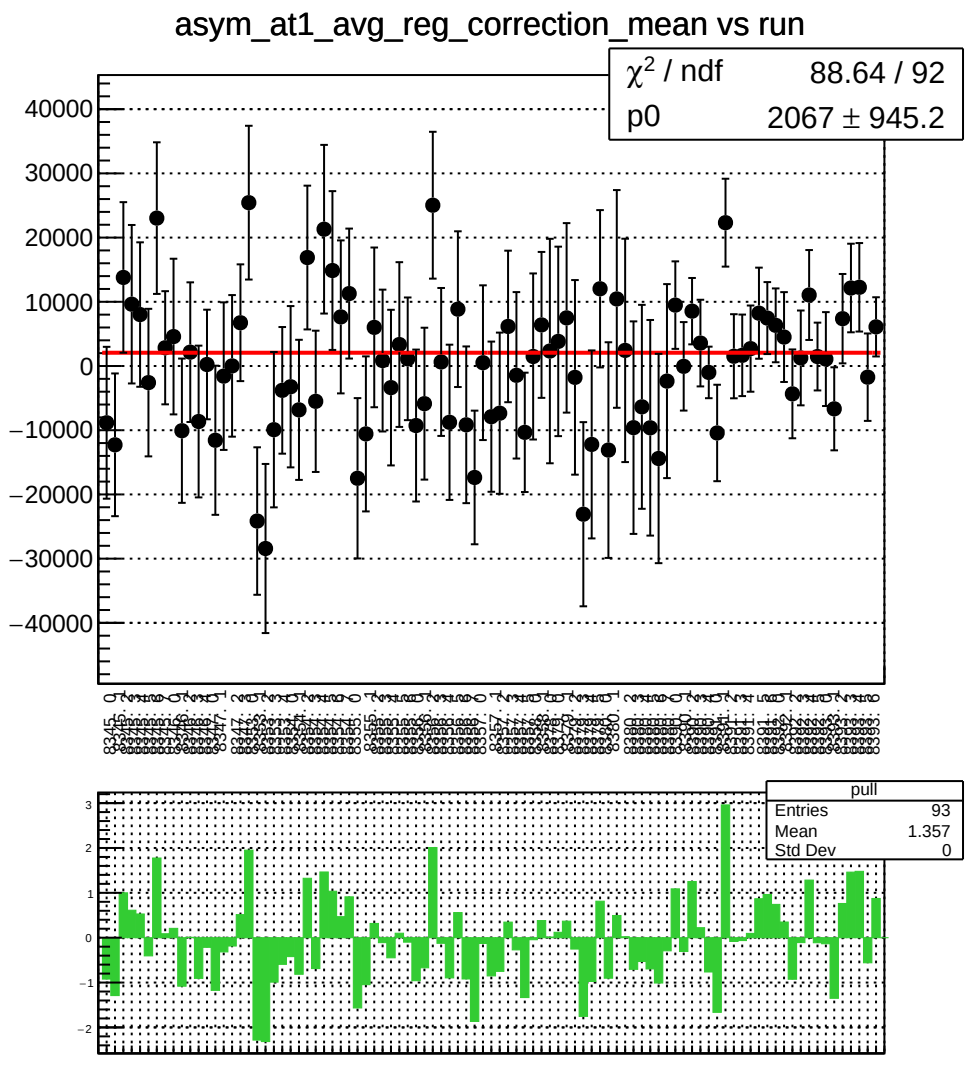

asym_atr_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 107.3 / 92
p0 −3.153e−13 ± 4.412e−13
60
40
20
0
−20
−40
pull
Entries 93
Mean 155
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.0319
Std Dev 1.074
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

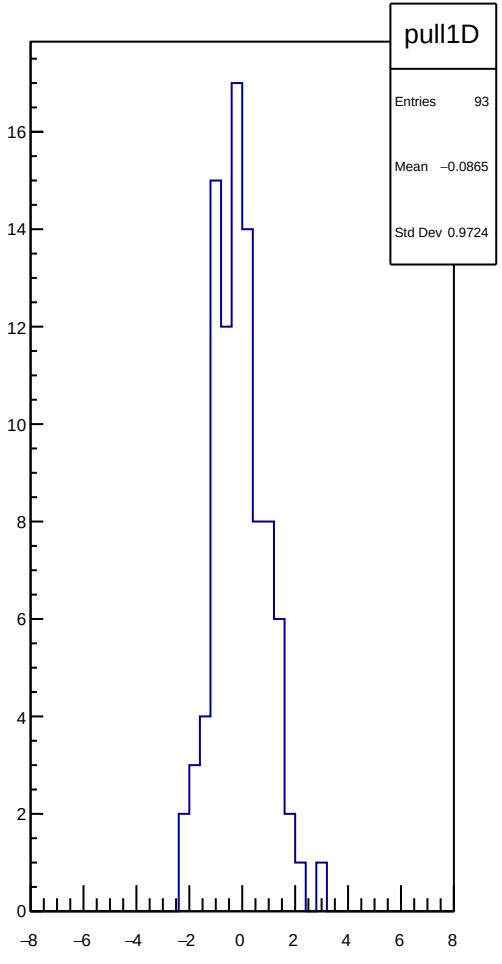

asym_atr_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.805e+05 / 92
p0 3.472e−10 ± 3.12e−13
3
2.5
2
1.5
1
0.5

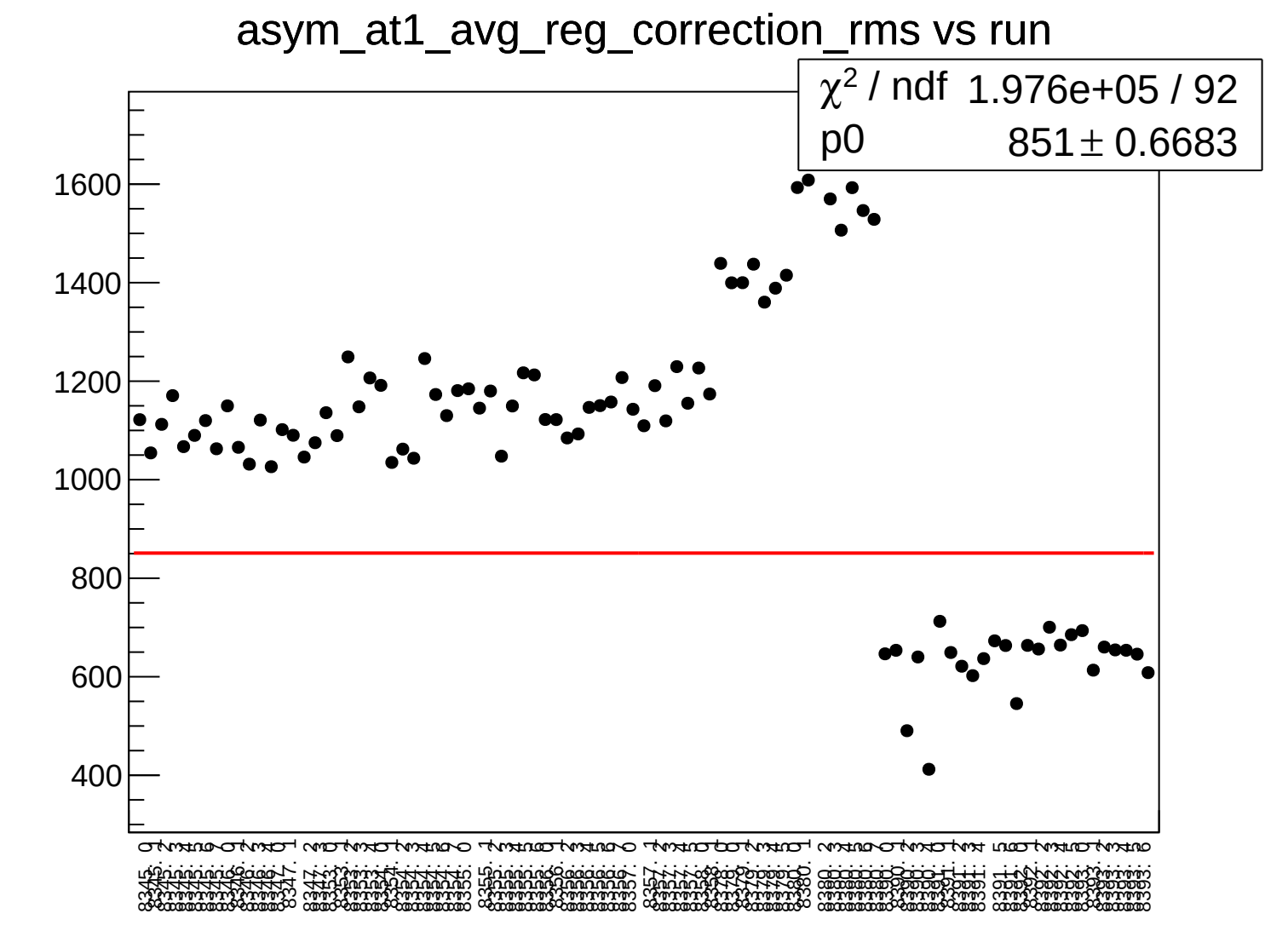

reg_asym_at1_avg_mean vs run
χ² / ndf 82.41 / 92
p0 −609.3 ± 1920
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −47.87
Std Dev 0
3
2
1
0
−1

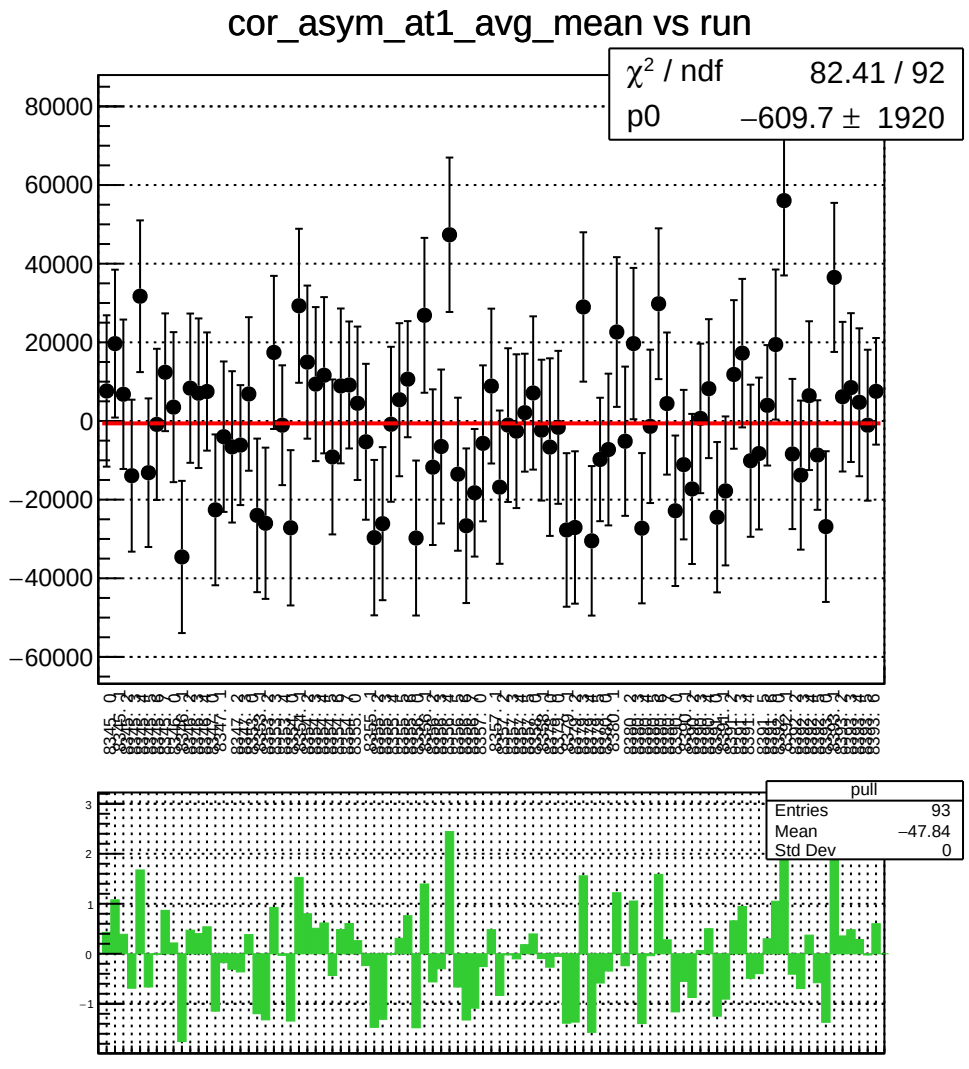

pull1D
Entries 93
Mean −0.007995
Std Dev 0.9413
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

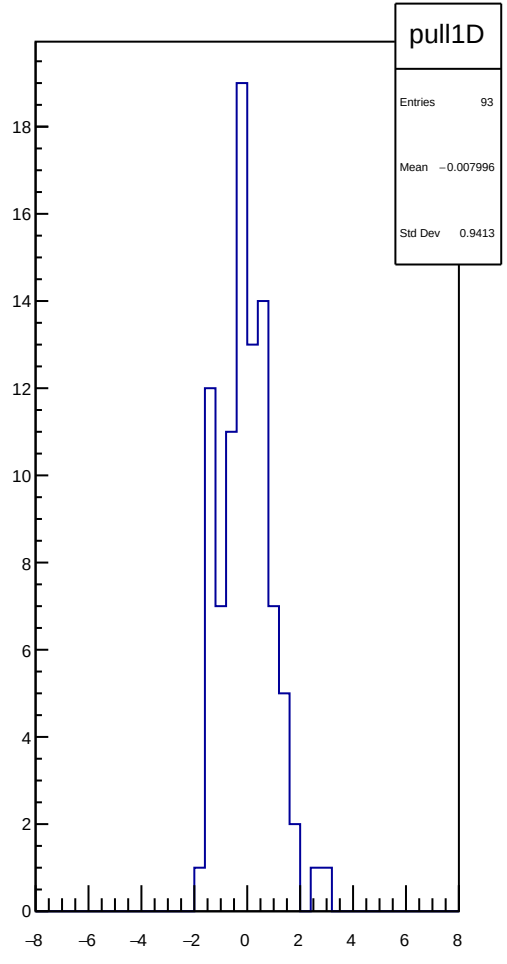

reg_asym_at1_avg_rms vs run
χ^2 / ndf 445.9 / 92
p0 1831 ± 1.358
1900
1880
1860
1840
1820
1800
1780
1760

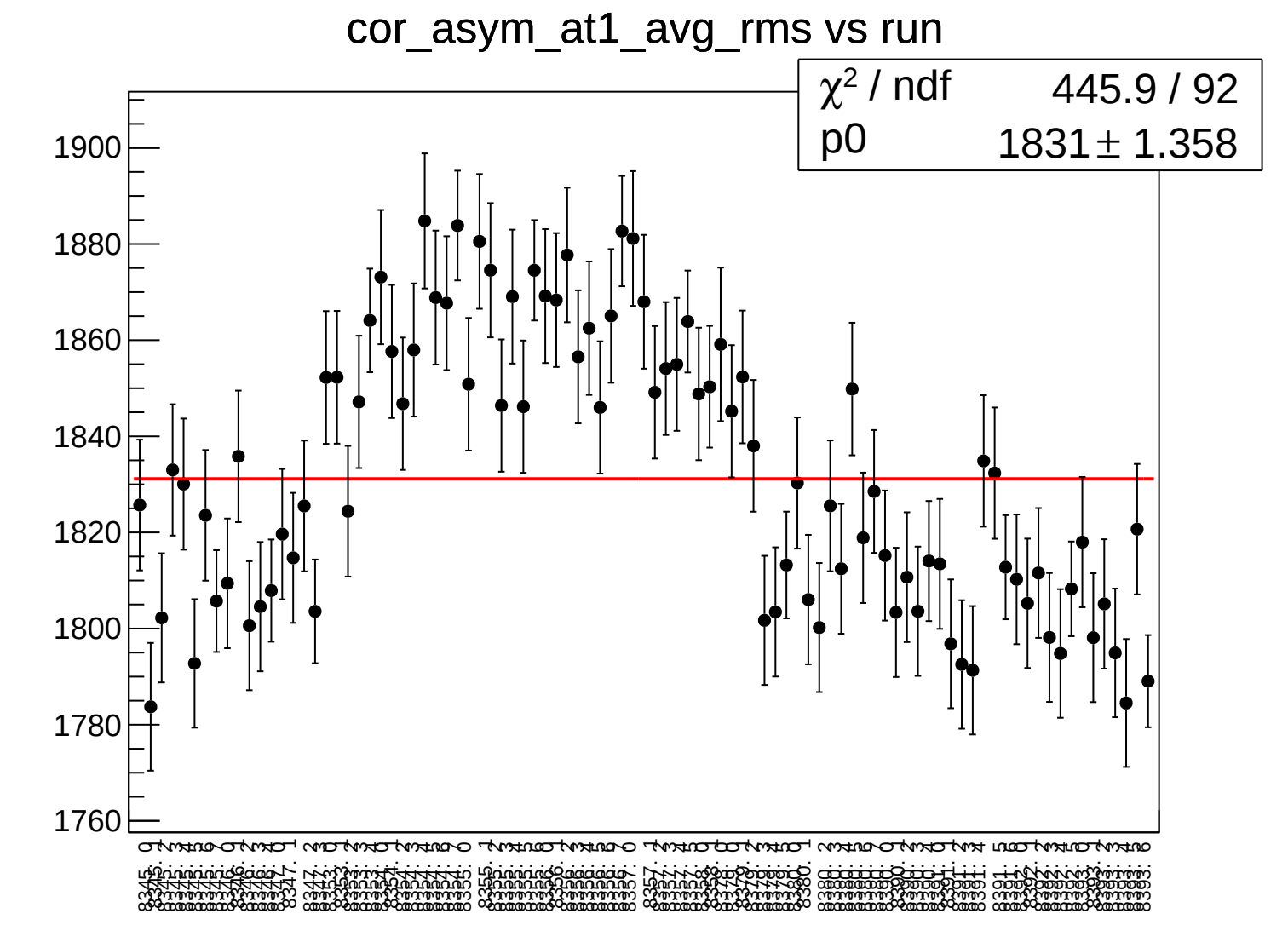

asym_at1_avg_reg_correction_mean vs run
χ² / ndf 88.64 / 92
p0 2067 ± 945.2
pull
Entries 93
Mean 1.357
Std Dev 0

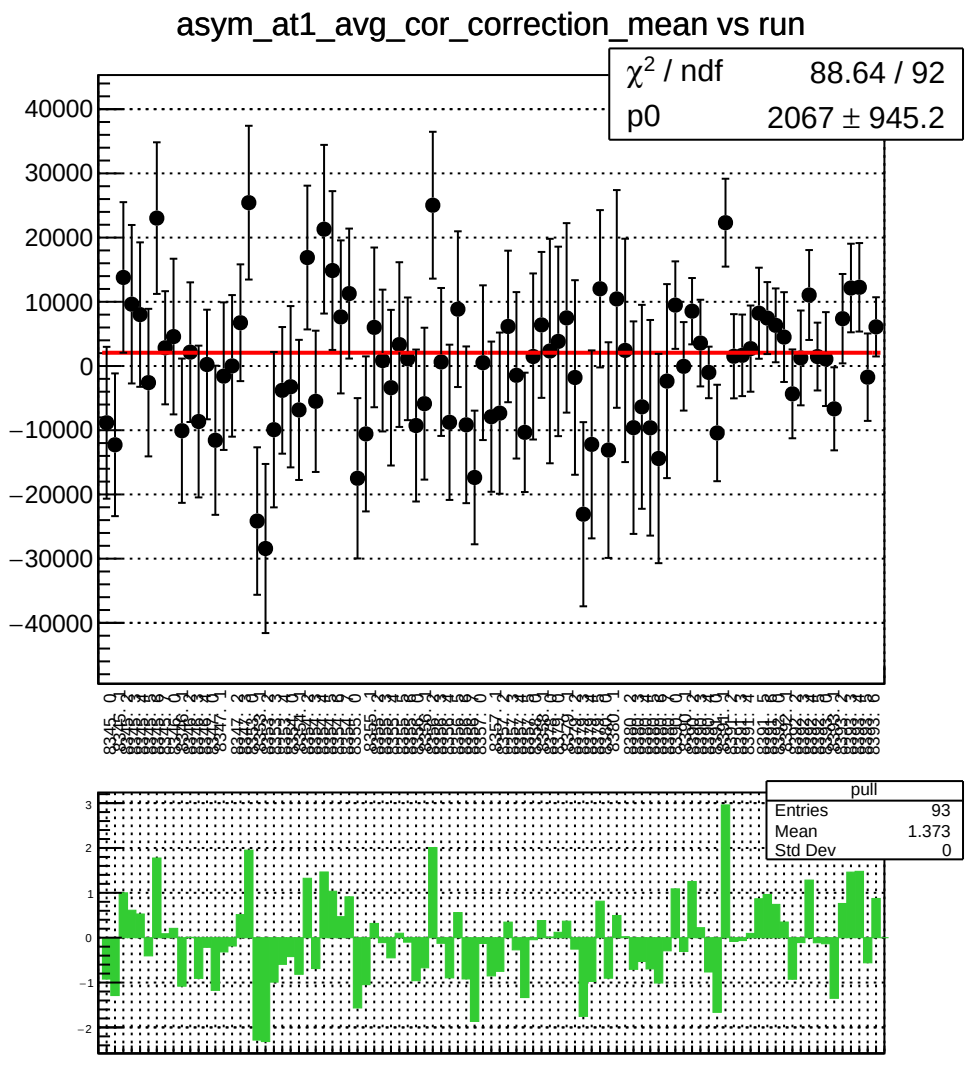

pull1D
Entries 93
Mean −0.0865
Std Dev 0.9724

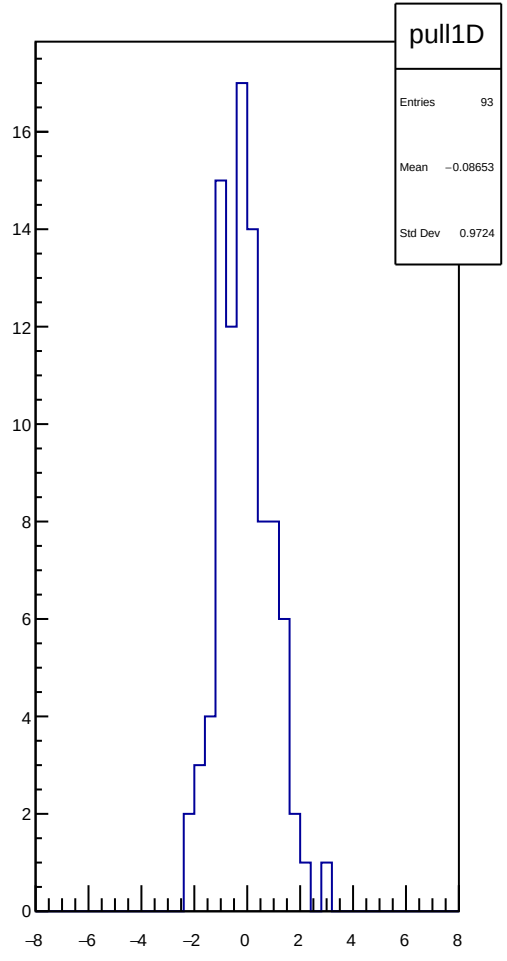

asym_at1_avg_reg_correction_rms vs run
χ² / ndf 1.976e+05 / 92
p0 851 ± 0.6683
1600
1400
1200
1000
800
600
400

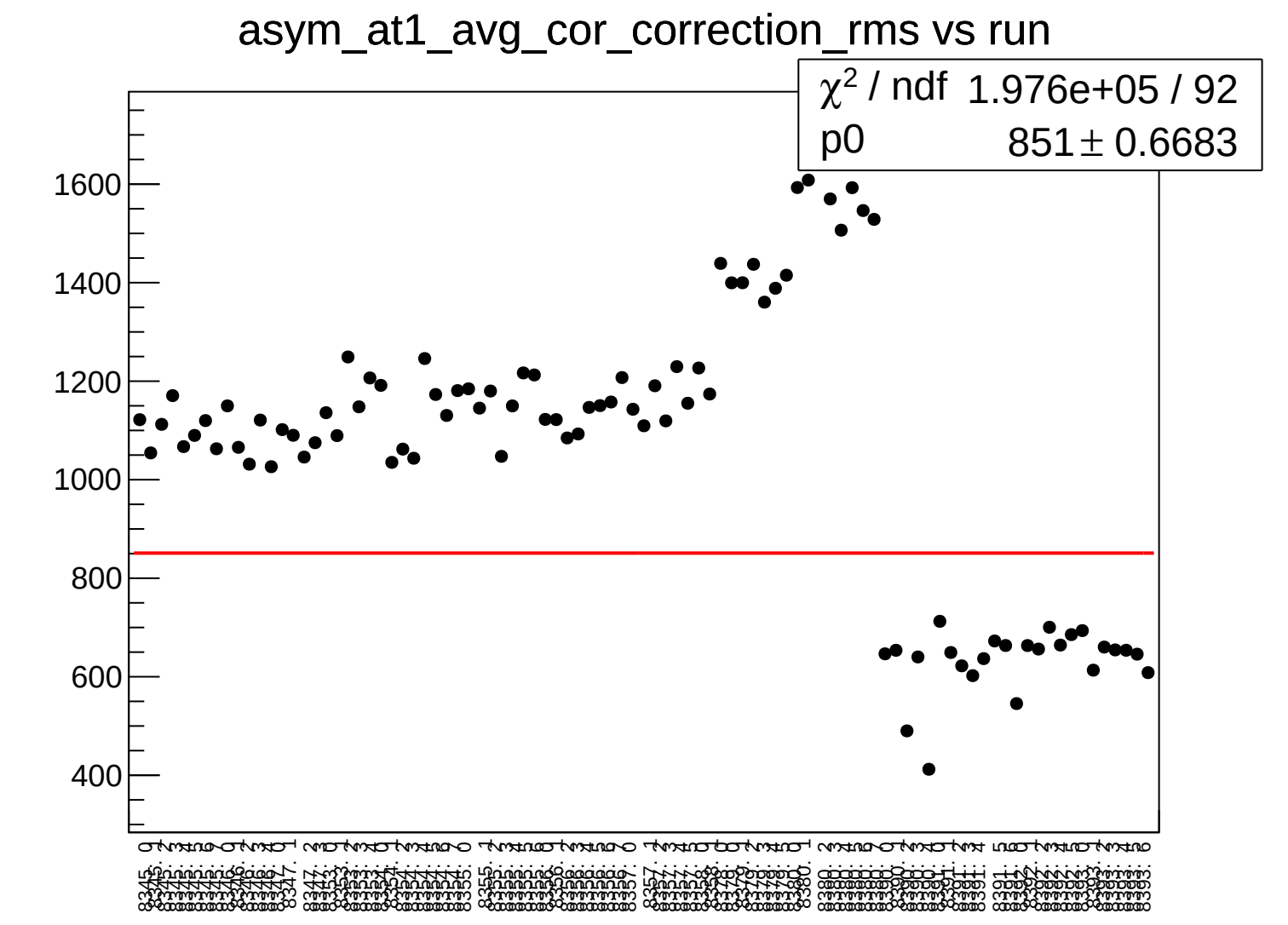

cor_asym_at1_avg_mean vs run
χ² / ndf 82.41 / 92
p0 −609.7 ± 1920
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −47.84
Std Dev 0
3
2
1
0
−1

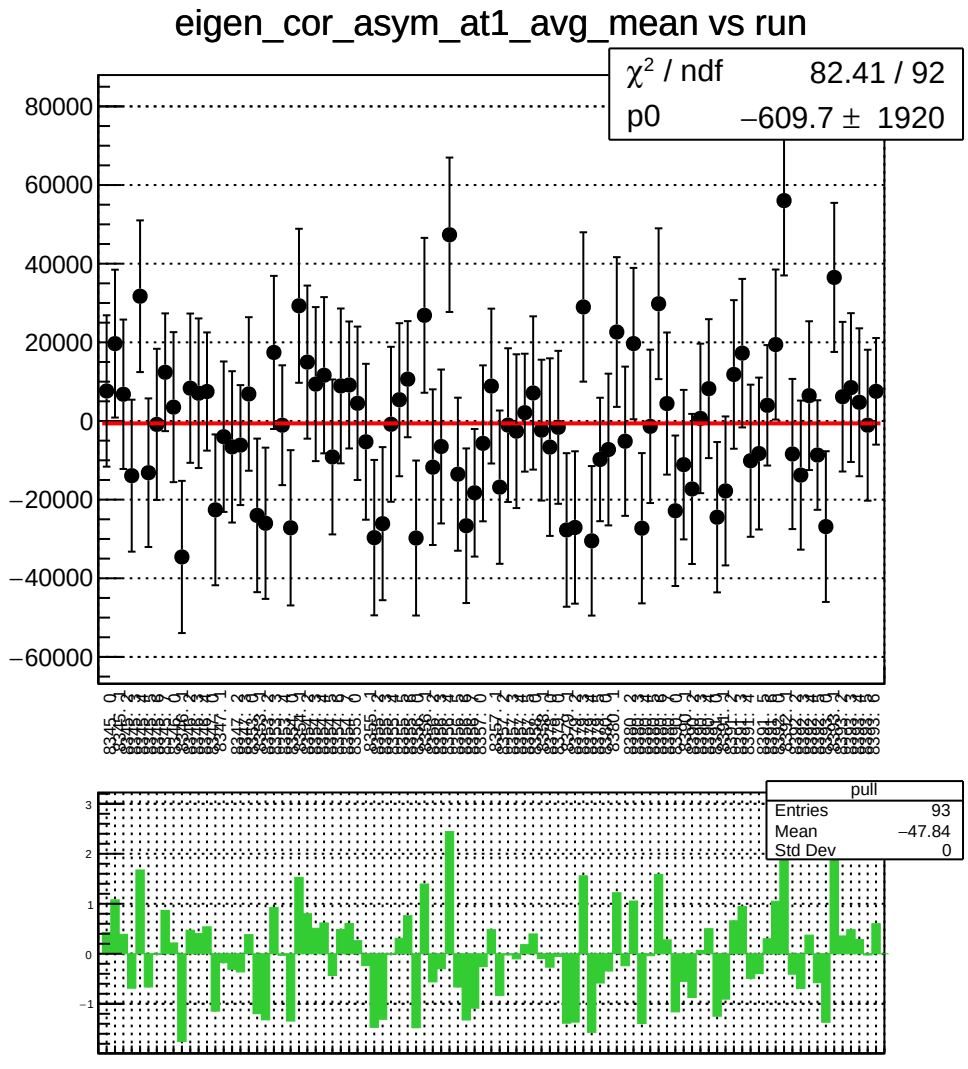

pull1D
Entries 93
Mean −0.007996
Std Dev 0.9413
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

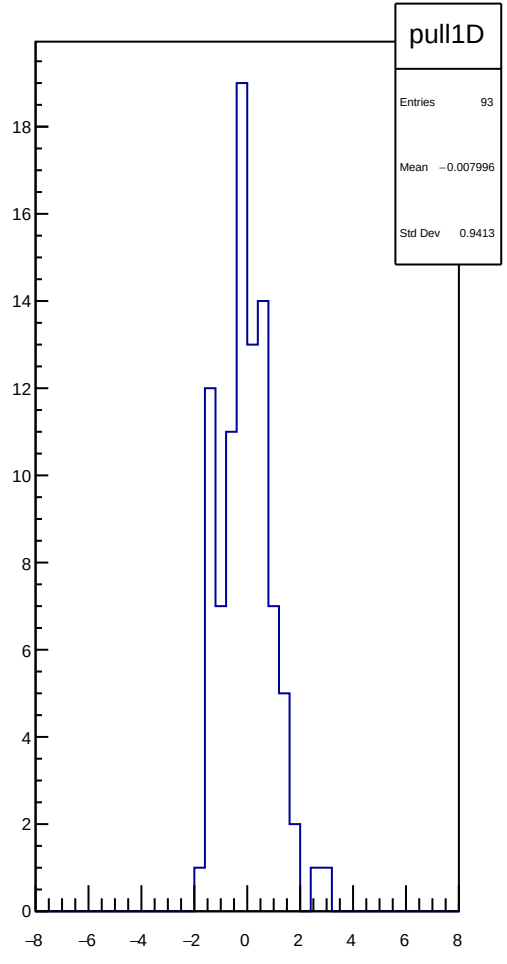

cor_asym_at1_avg_rms vs run
χ^2 / ndf 445.9 / 92
p0 1831 ± 1.358
1900
1880
1860
1840
1820
1800
1780
1760

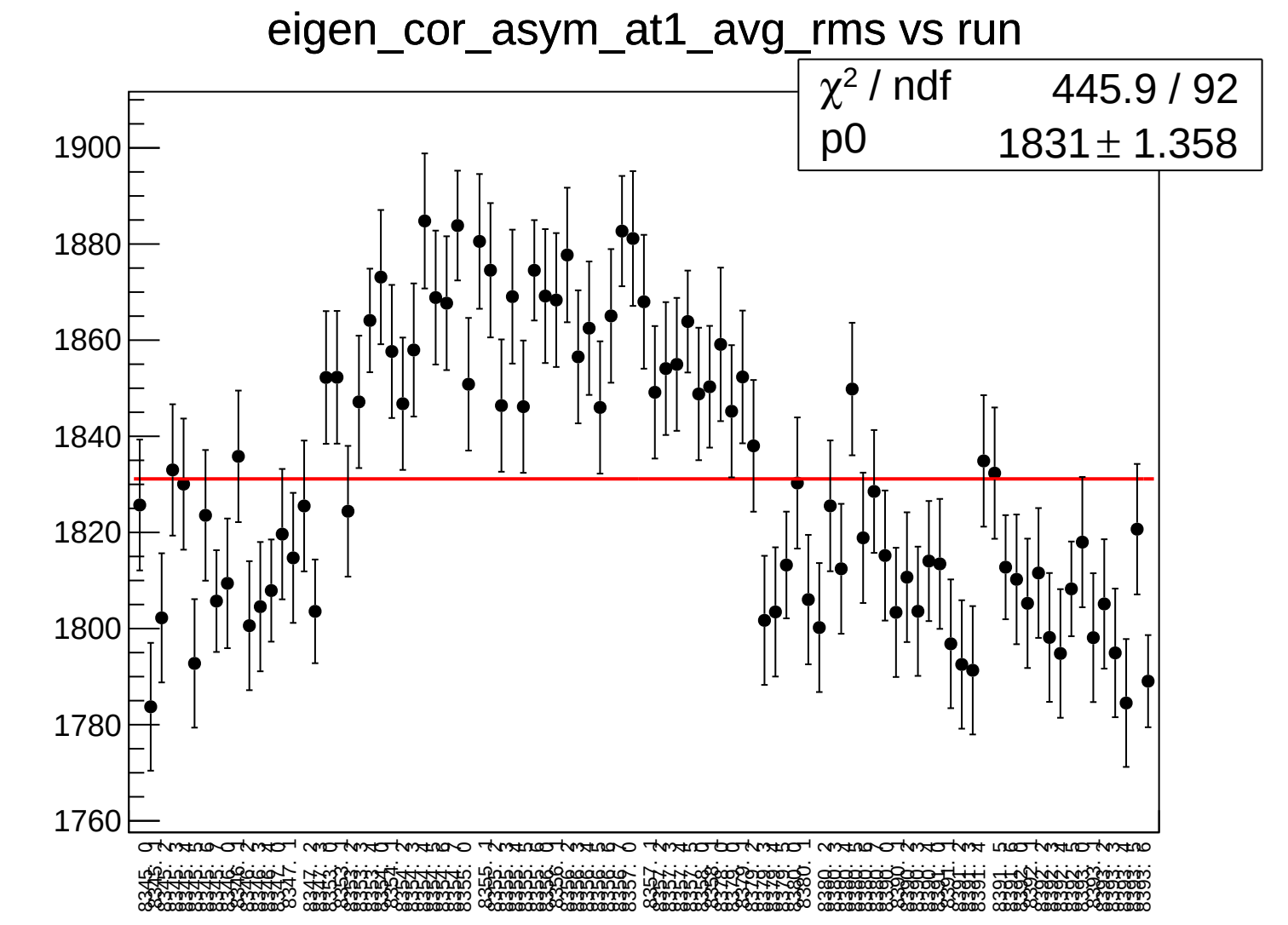

asym_at1_avg_cor_correction_mean vs run
χ² / ndf 88.64 / 92
p0 2067 ± 945.2
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean 1.373
Std Dev 0
3
2
1
0
−1
−2

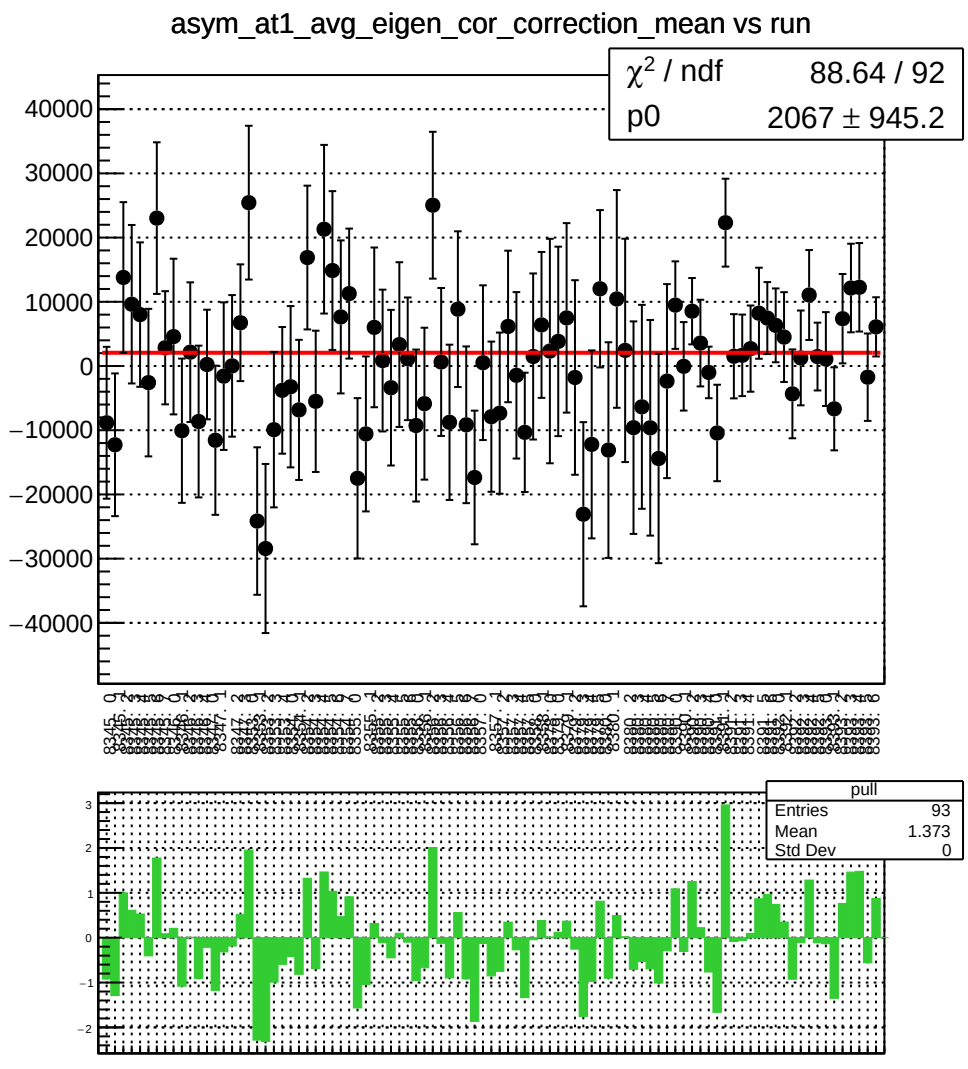

pull1D
Entries 93
Mean −0.08653
Std Dev 0.9724
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

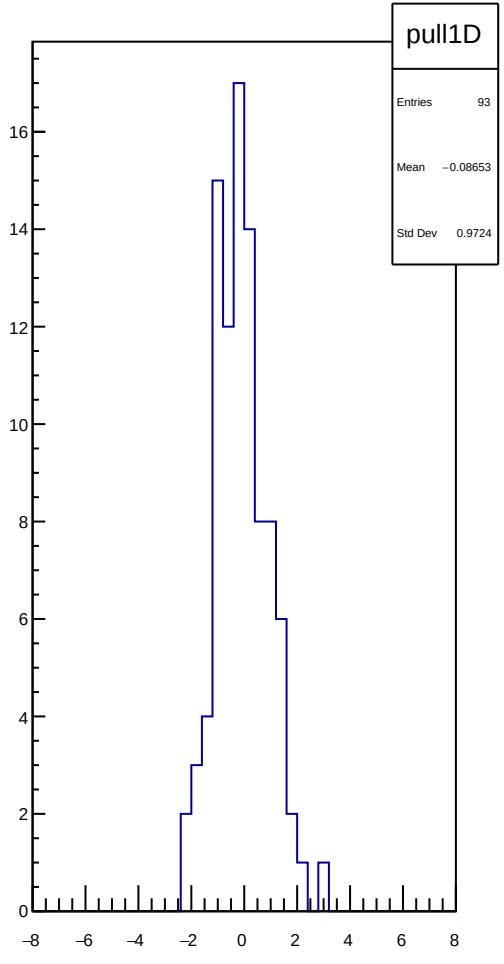

asym_at1_avg_cor_correction_rms vs run
χ² / ndf 1.976e+05 / 92
p0 851 ± 0.6683
1600
1400
1200
1000
800
600
400

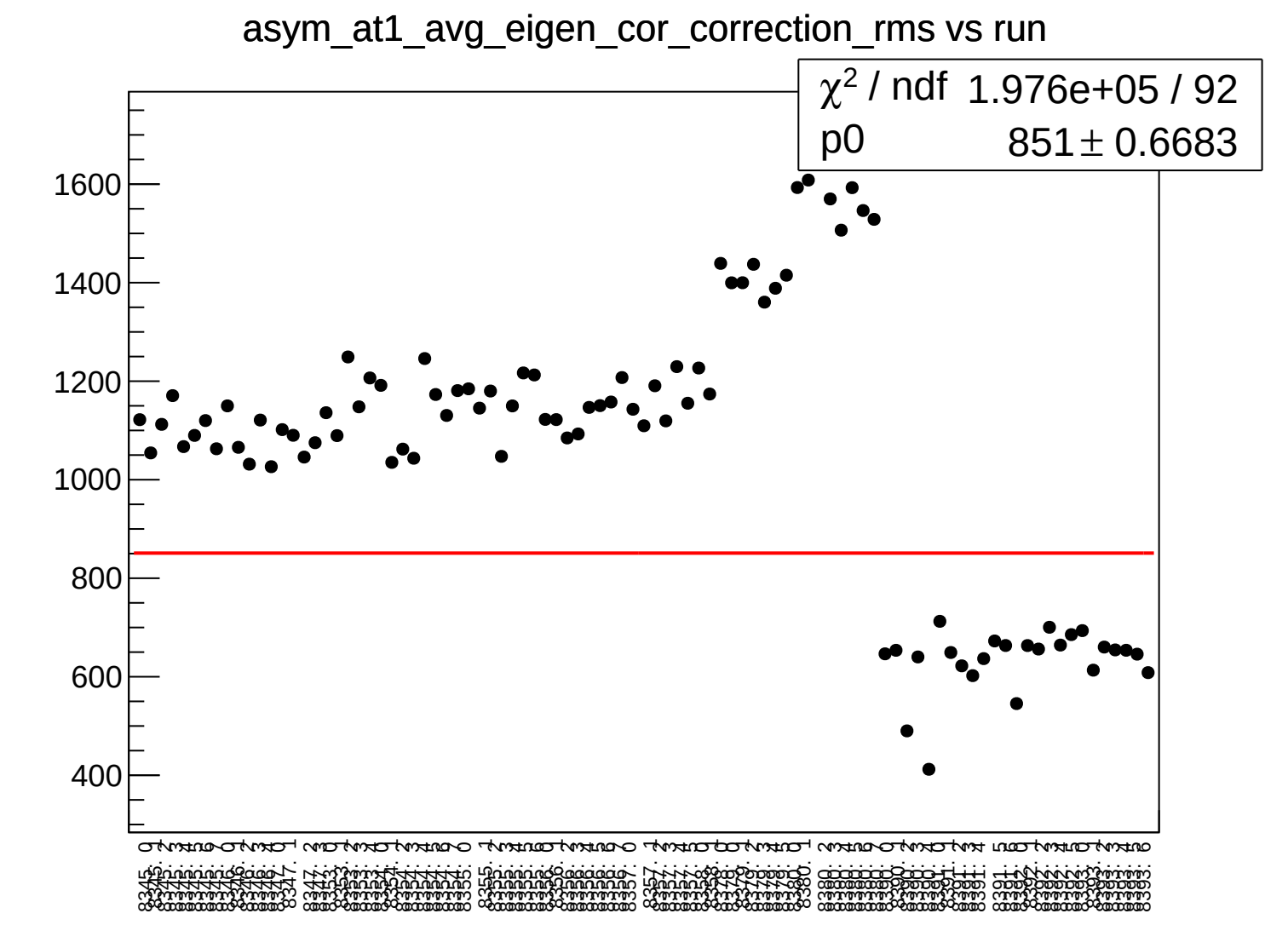

eigen_cor_asym_at1_avg_mean vs run
χ² / ndf 82.41 / 92
p0 −609.7 ± 1920
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −47.84
Std Dev 0
3
2
1
0
−1

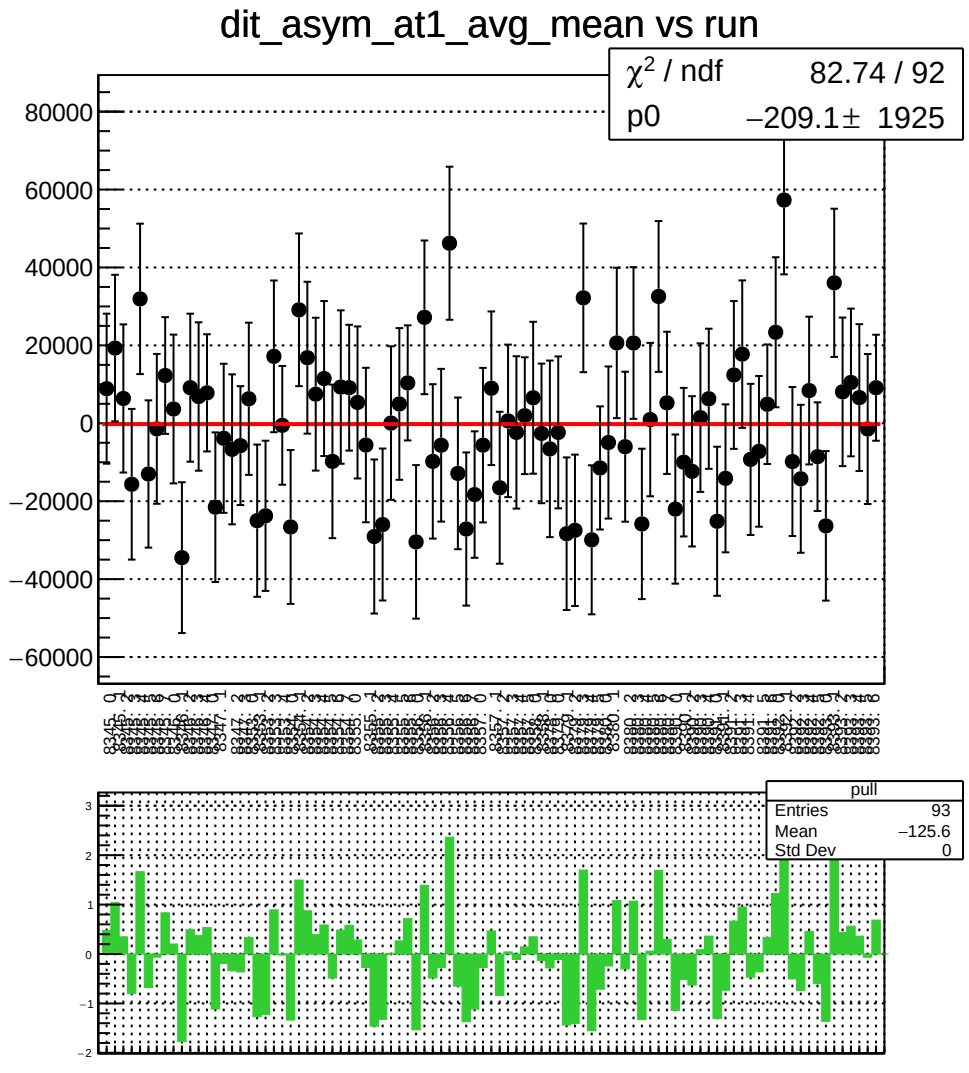

pull1D
Entries 93
Mean −0.007996
Std Dev 0.9413
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

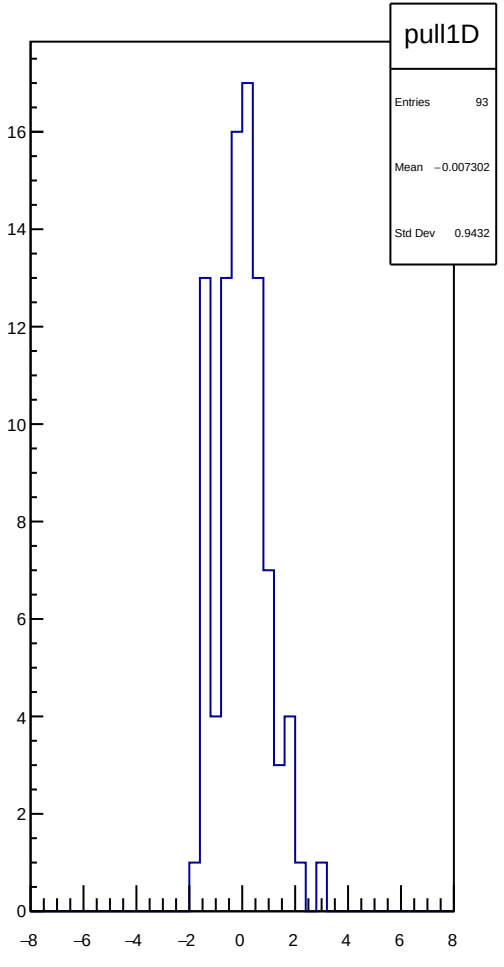

eigen_cor_asym_at1_avg_rms vs run
χ² / ndf 445.9 / 92
p0 1831 ± 1.358
1900
1880
1860
1840
1820
1800
1780
1760

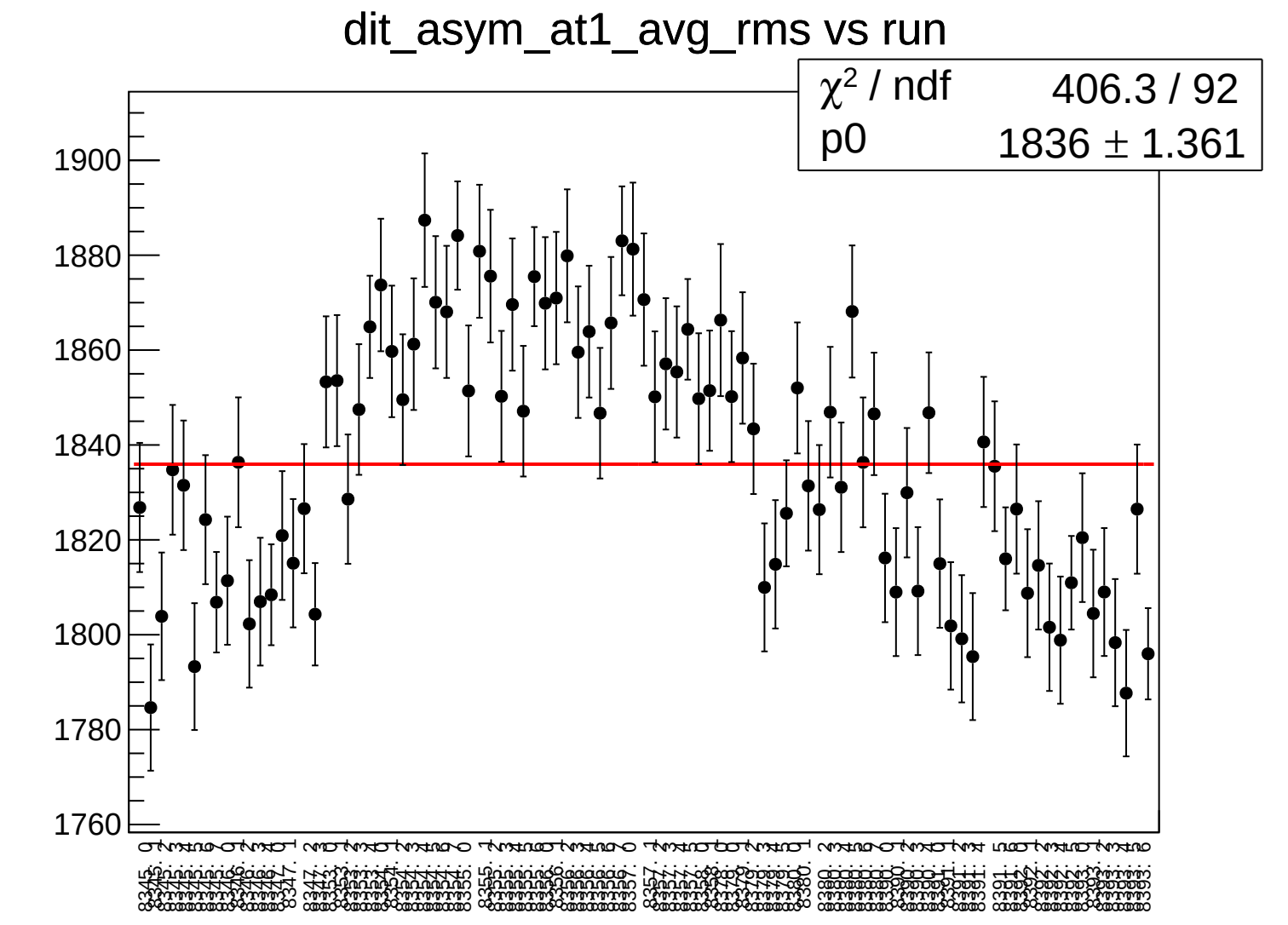

asym_at1_avg_eigen_cor_correction_mean vs run
χ² / ndf 88.64 / 92
p0 2067 ± 945.2
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean 1.373
Std Dev 0
3
2
1
0
−1
−2

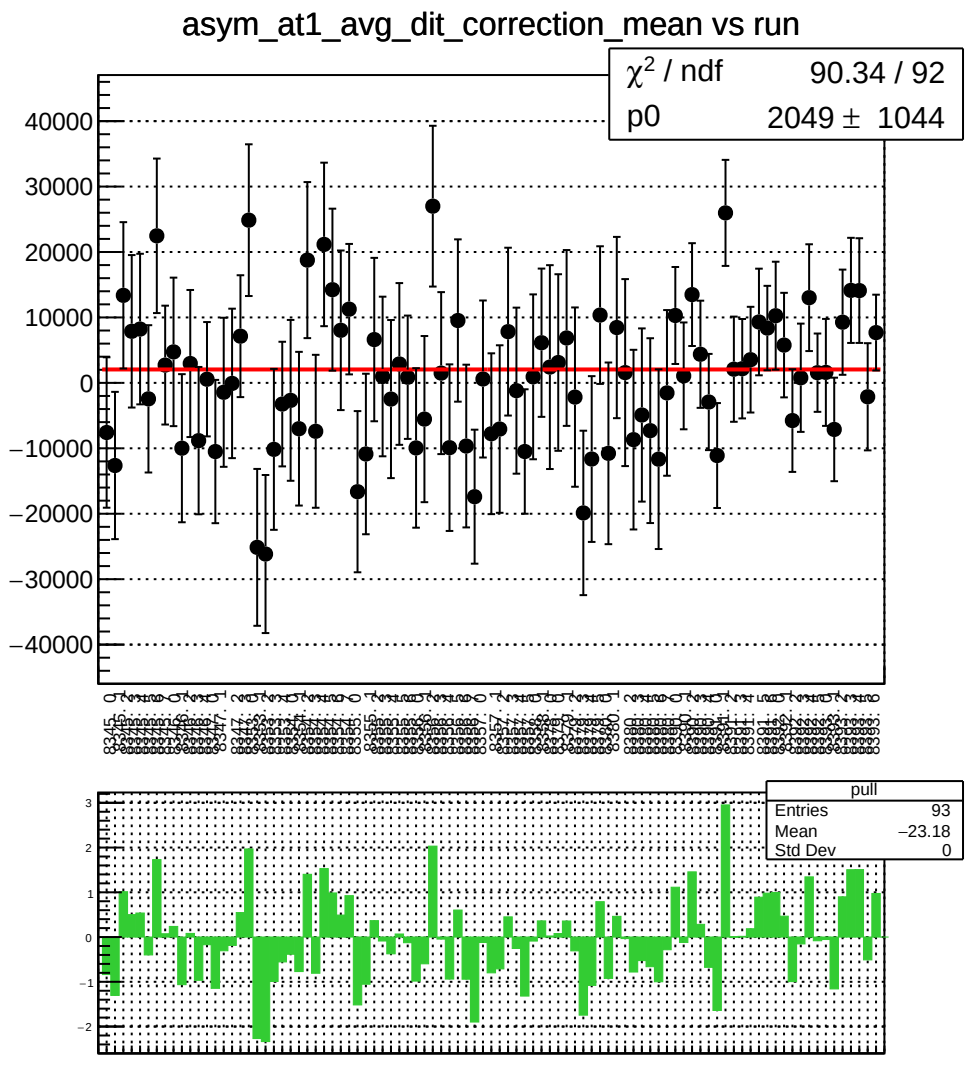

pull1D
Entries 93
Mean −0.08653
Std Dev 0.9724
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

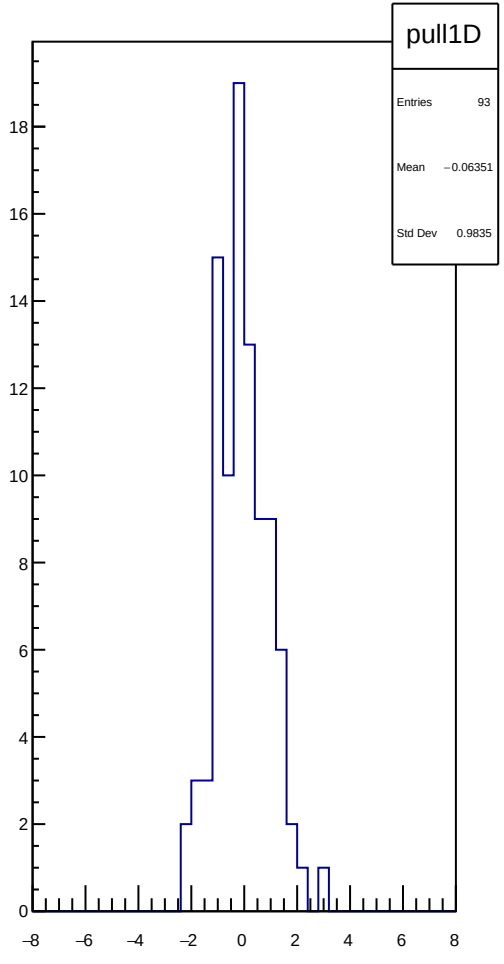

asym_at1_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.976e+05 / 92
p0 851 ± 0.6683
1600
1400
1200
1000
800
600
400

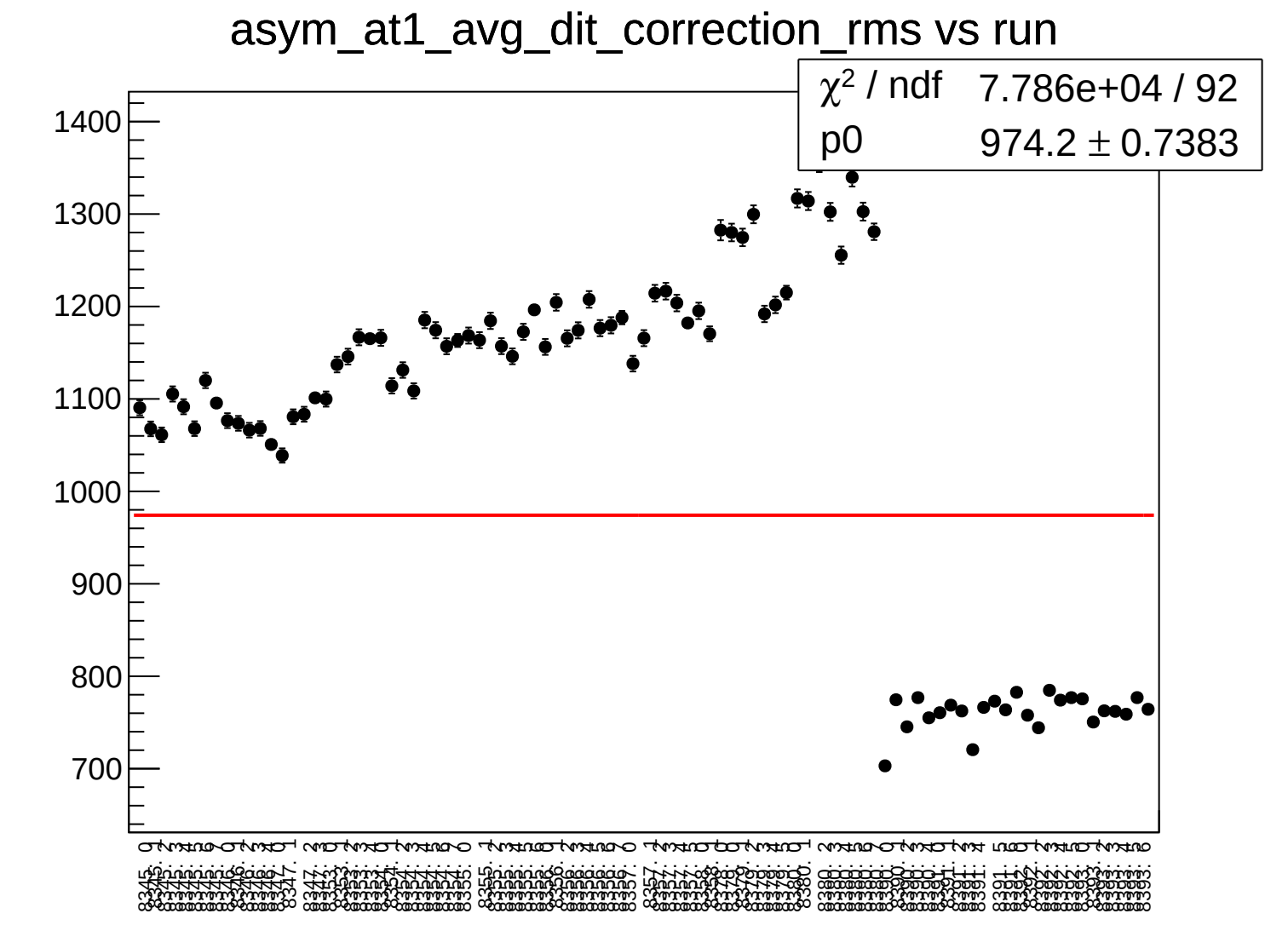

dit_asym_at1_avg_mean vs run
χ² / ndf 82.74 / 92
p0 −209.1± 1925
pull
Entries 93
Mean −125.6
Std Dev 0

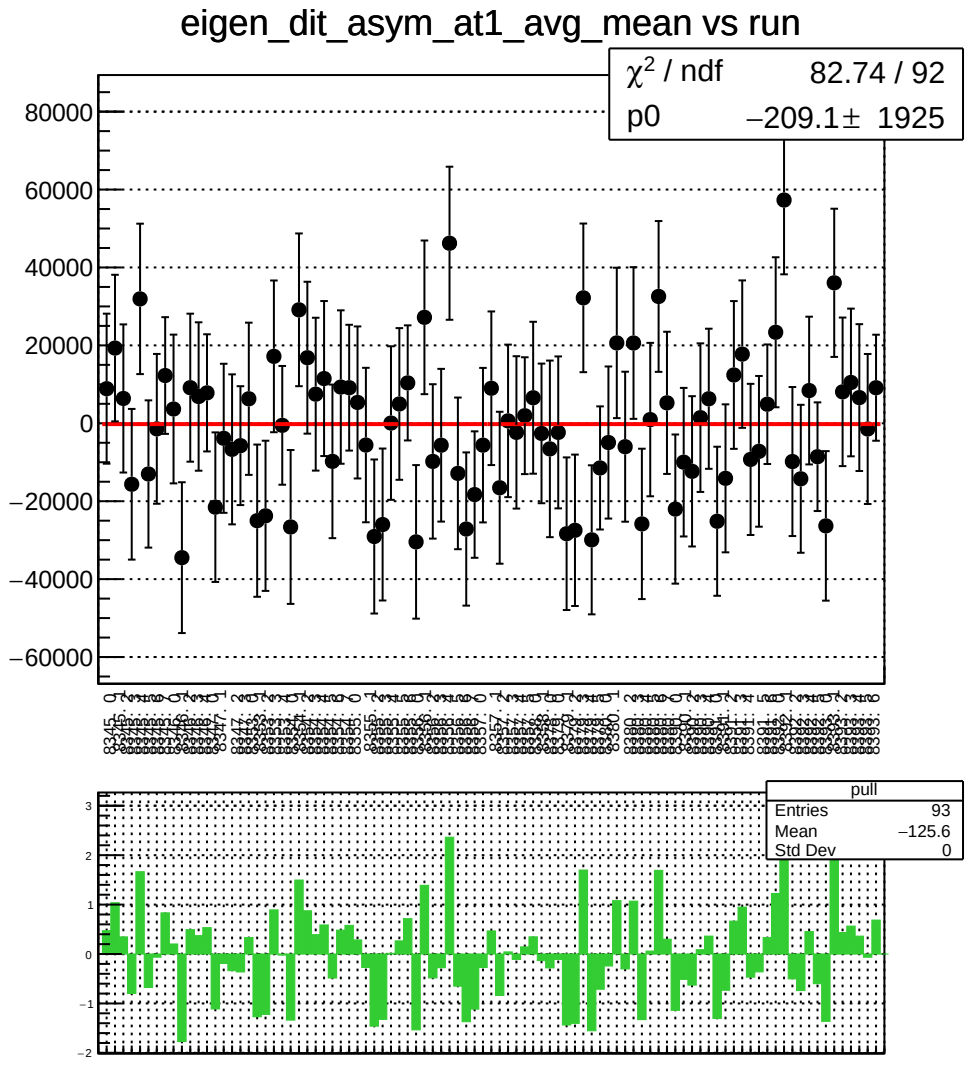

pull1D
Entries 93
Mean −0.007302
Std Dev 0.9432

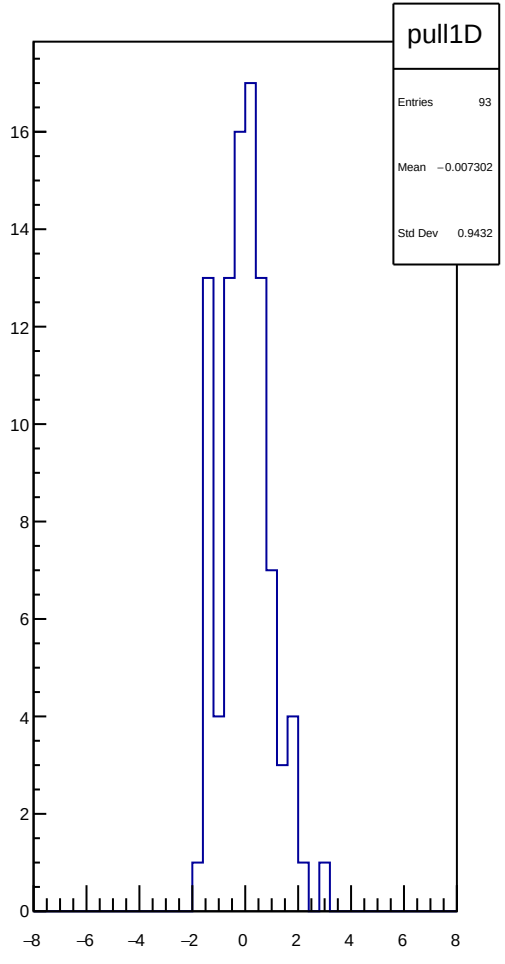

dit_asym_at1_avg_rms vs run
χ² / ndf 406.3 / 92
p0 1836 ± 1.361
1900
1880
1860
1840
1820
1800
1780
1760

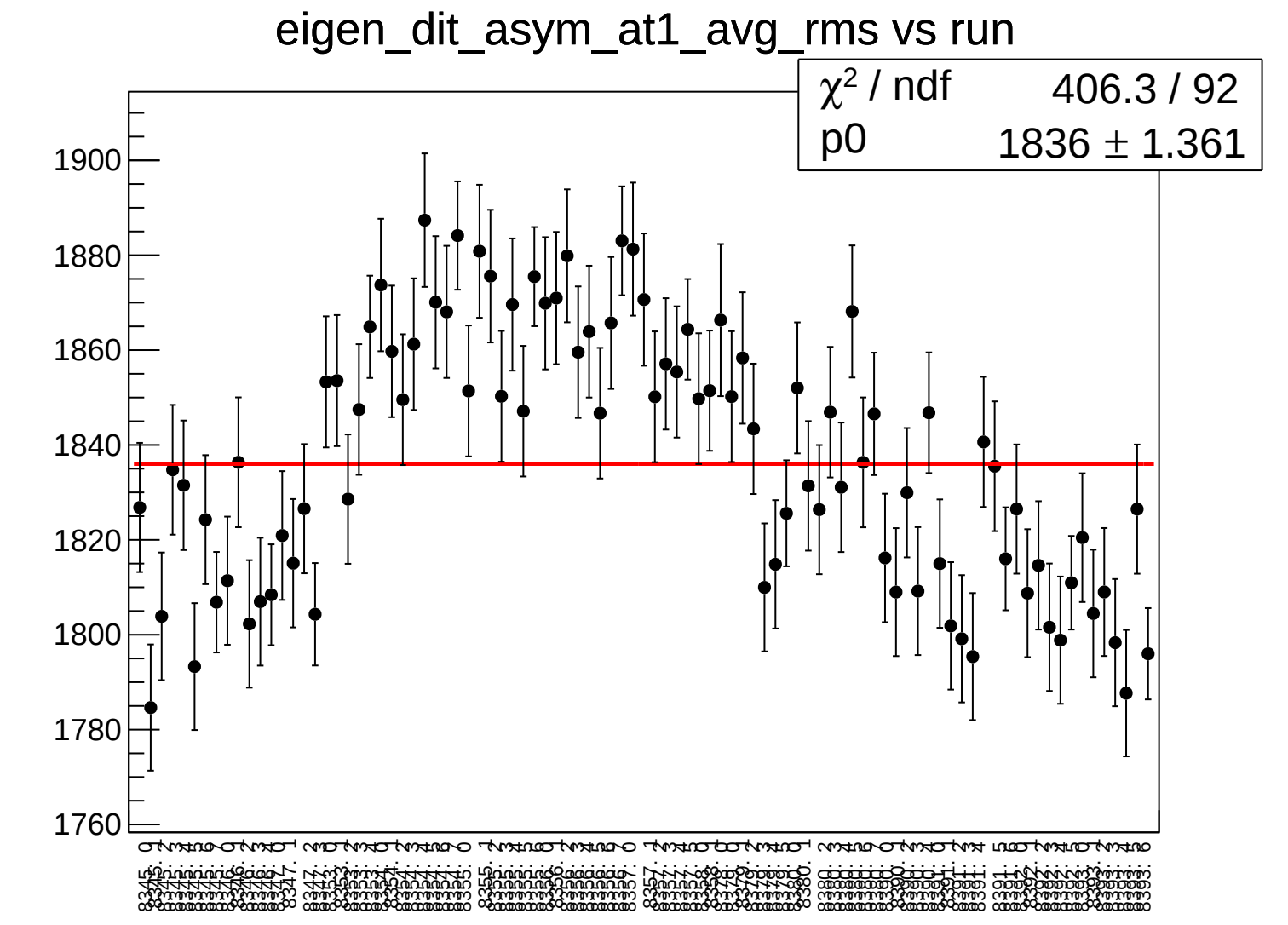

asym_at1_avg_dit_correction_mean vs run
χ² / ndf 90.34 / 92
p0 2049 ± 1044
pull
Entries 93
Mean −23.18
Std Dev 0

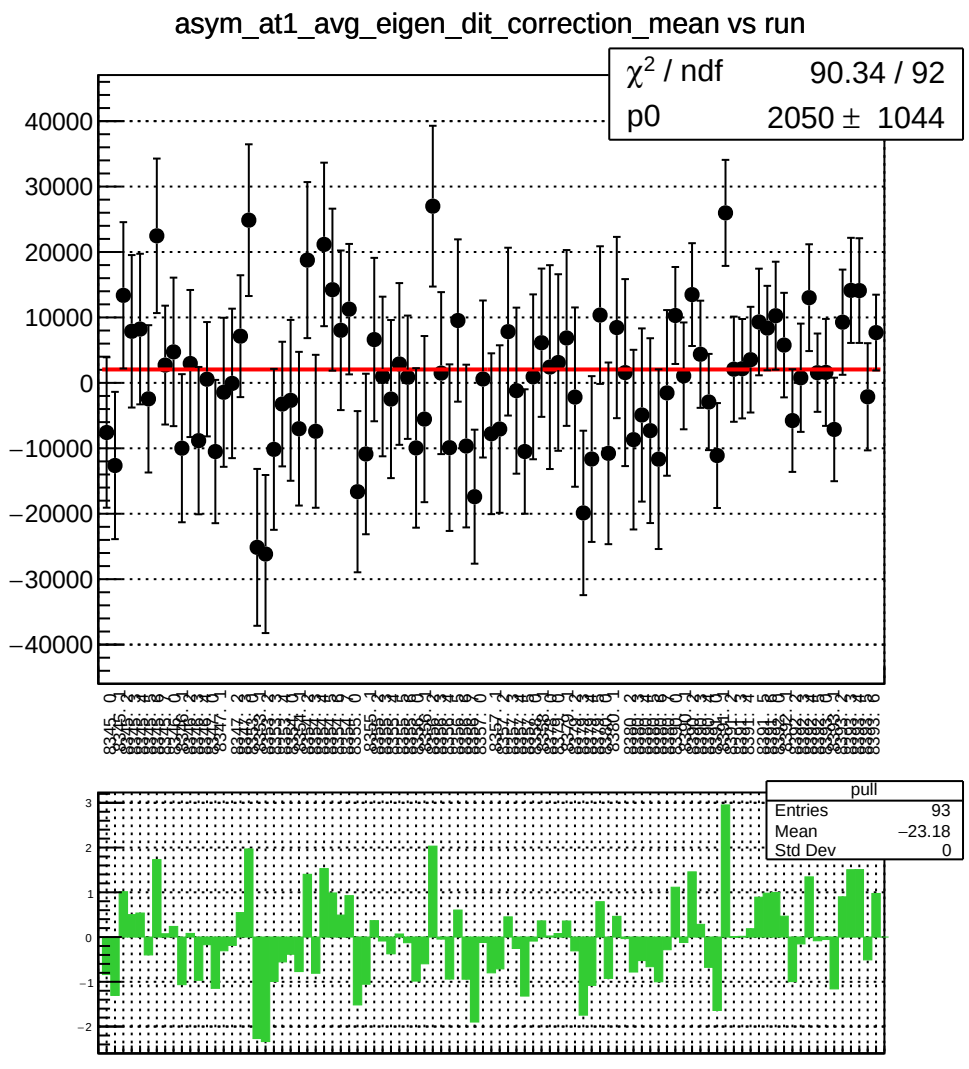

pull1D
Entries 93
Mean −0.06351
Std Dev 0.9835

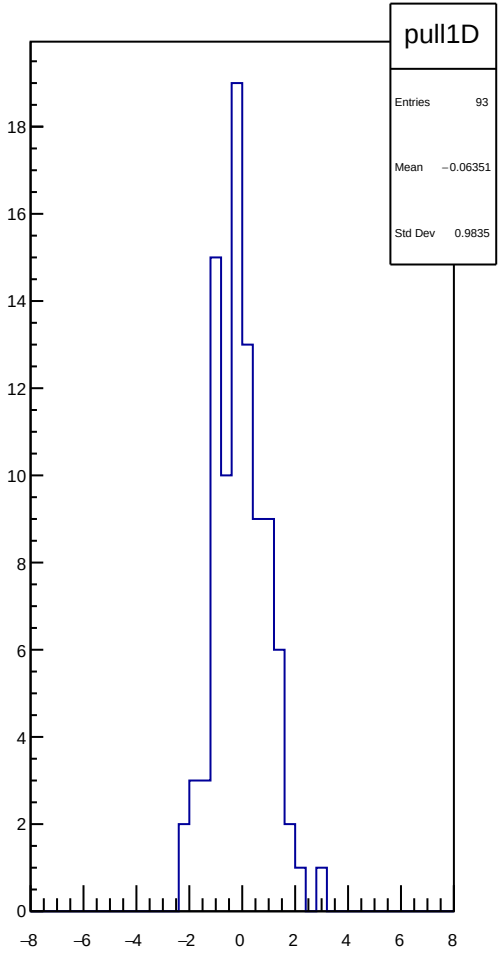

asym_at1_avg_dit_correction_rms vs run
χ² / ndf 7.786e+04 / 92
p0 974.2 ± 0.7383
1400
1300
1200
1100
1000
900
800
700

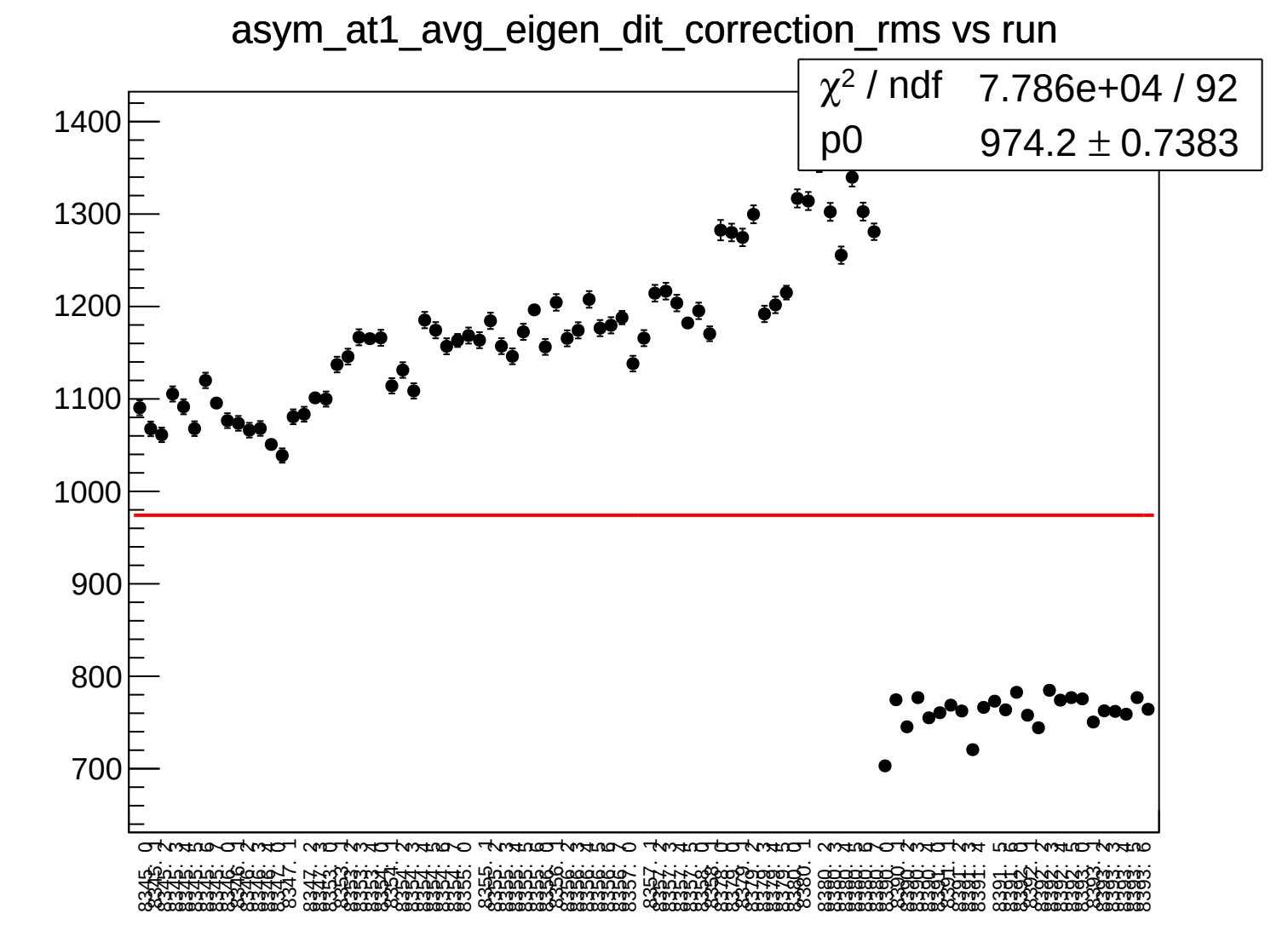

eigen_dit_asym_at1_avg_mean vs run
χ² / ndf 82.74 / 92
p0 −209.1± 1925
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −125.6
Std Dev 0
3
2
1
0
−1
−2

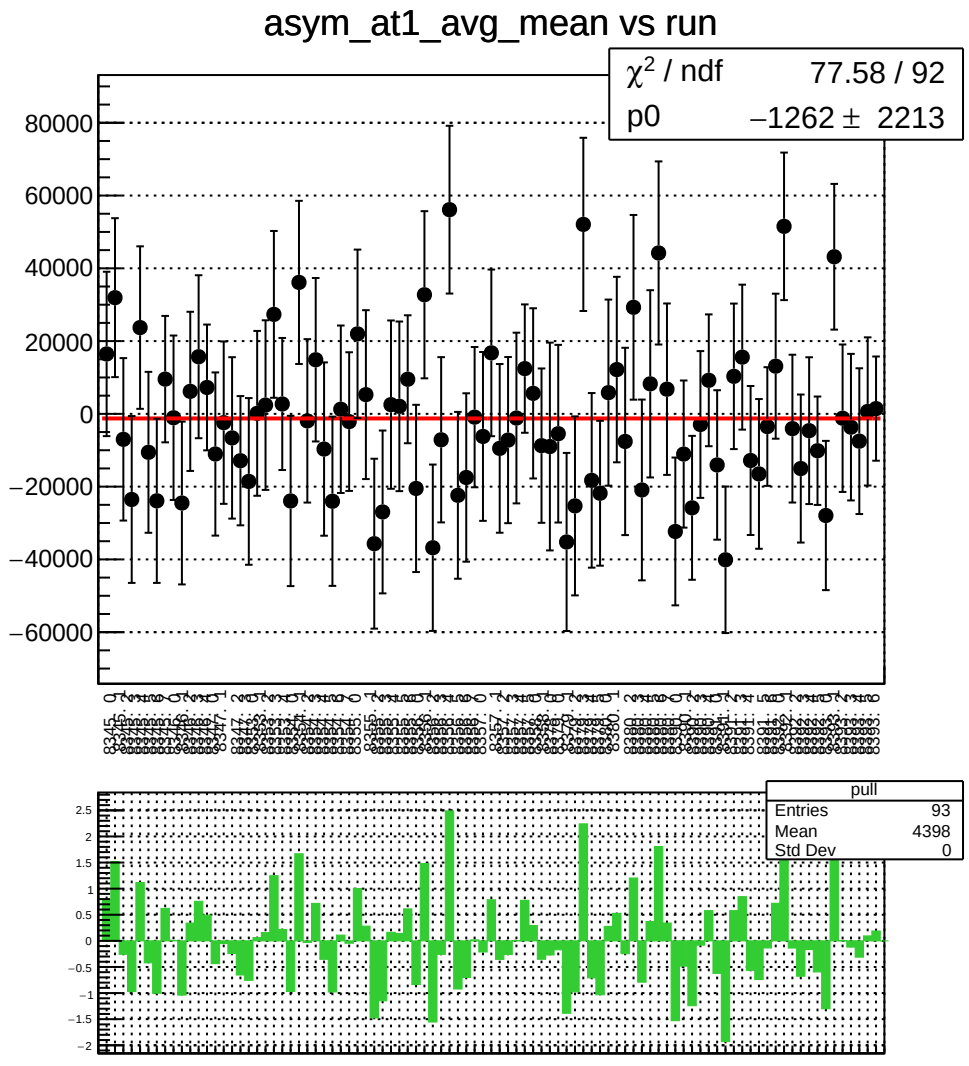

pull1D
Entries 93
Mean −0.007302
Std Dev 0.9432
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

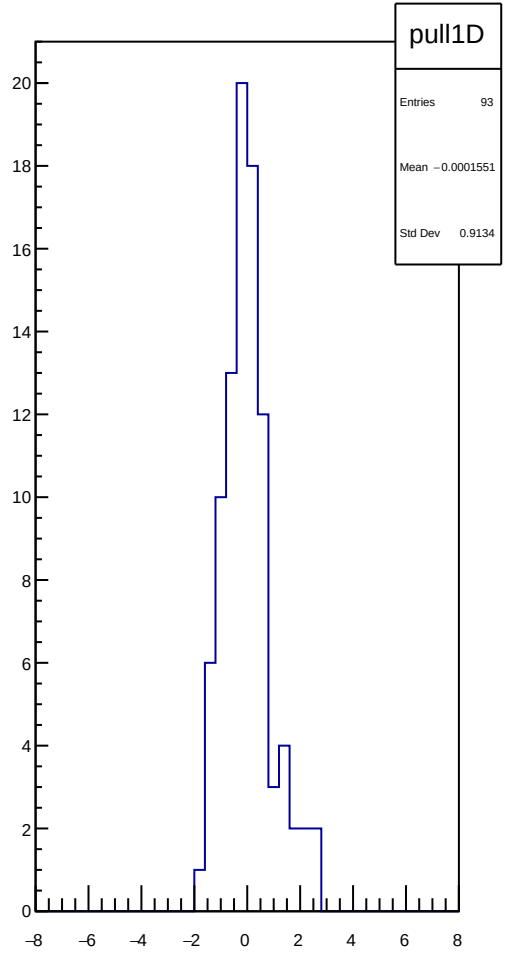

eigen_dit_asym_at1_avg_rms vs run
χ² / ndf 406.3 / 92
p0 1836 ± 1.361
1900
1880
1860
1840
1820
1800
1780
1760

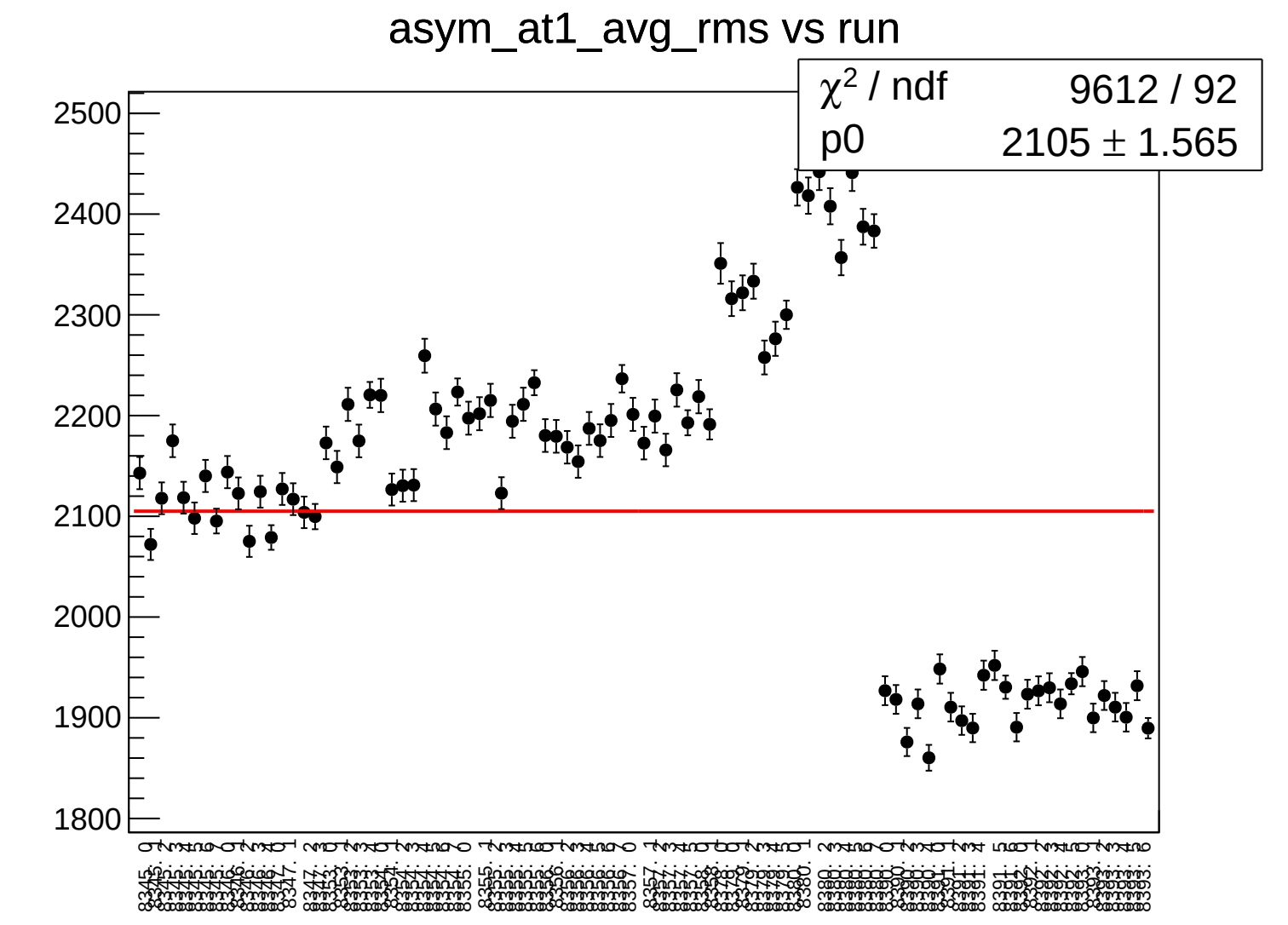

asym_at1_avg_eigen_dit_correction_mean vs run
χ² / ndf 90.34 / 92
p0 2050 ± 1044
pull
Entries 93
Mean −23.18
Std Dev 0

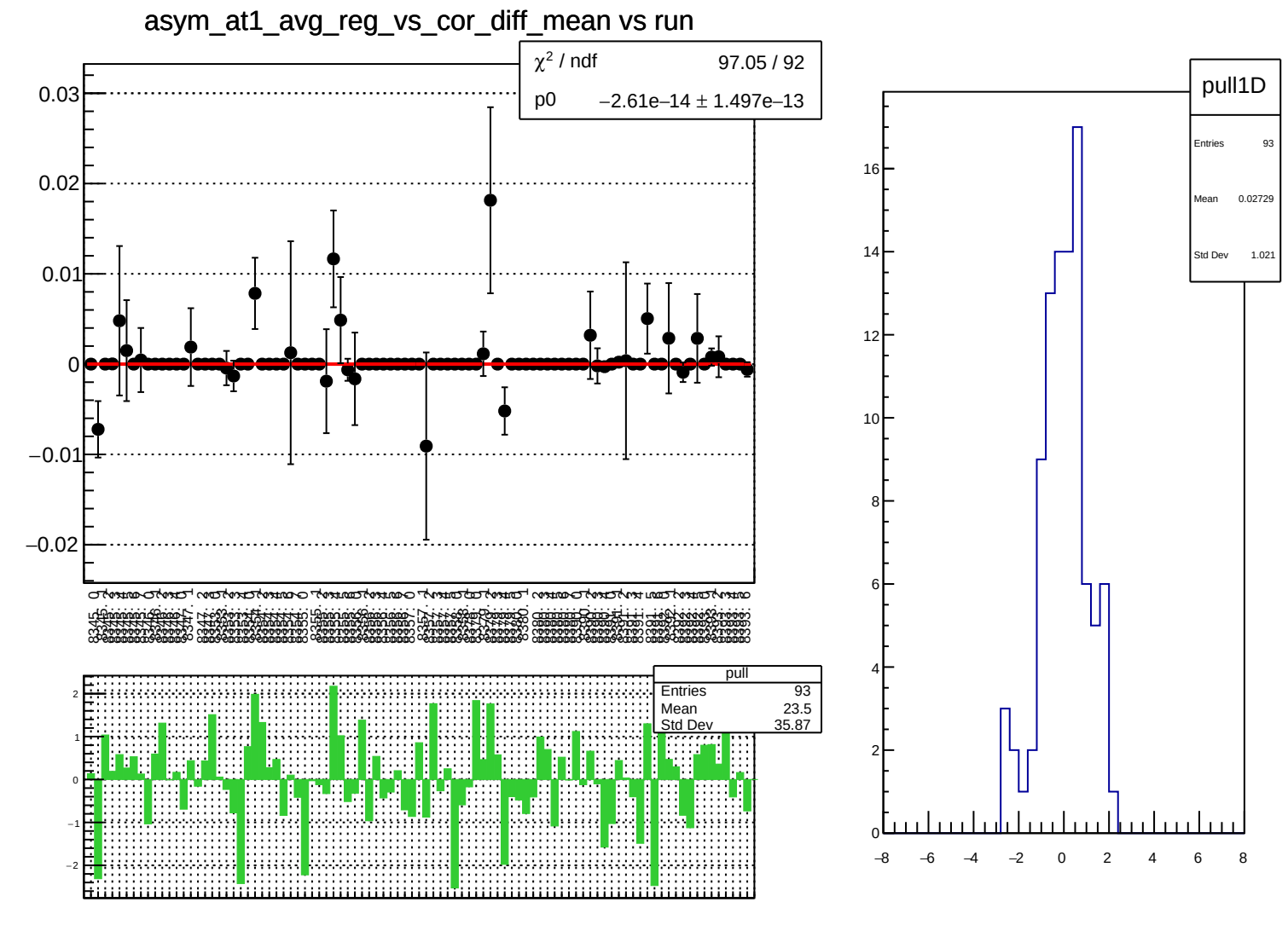

pull1D
Entries 93
Mean −0.06351
Std Dev 0.9835

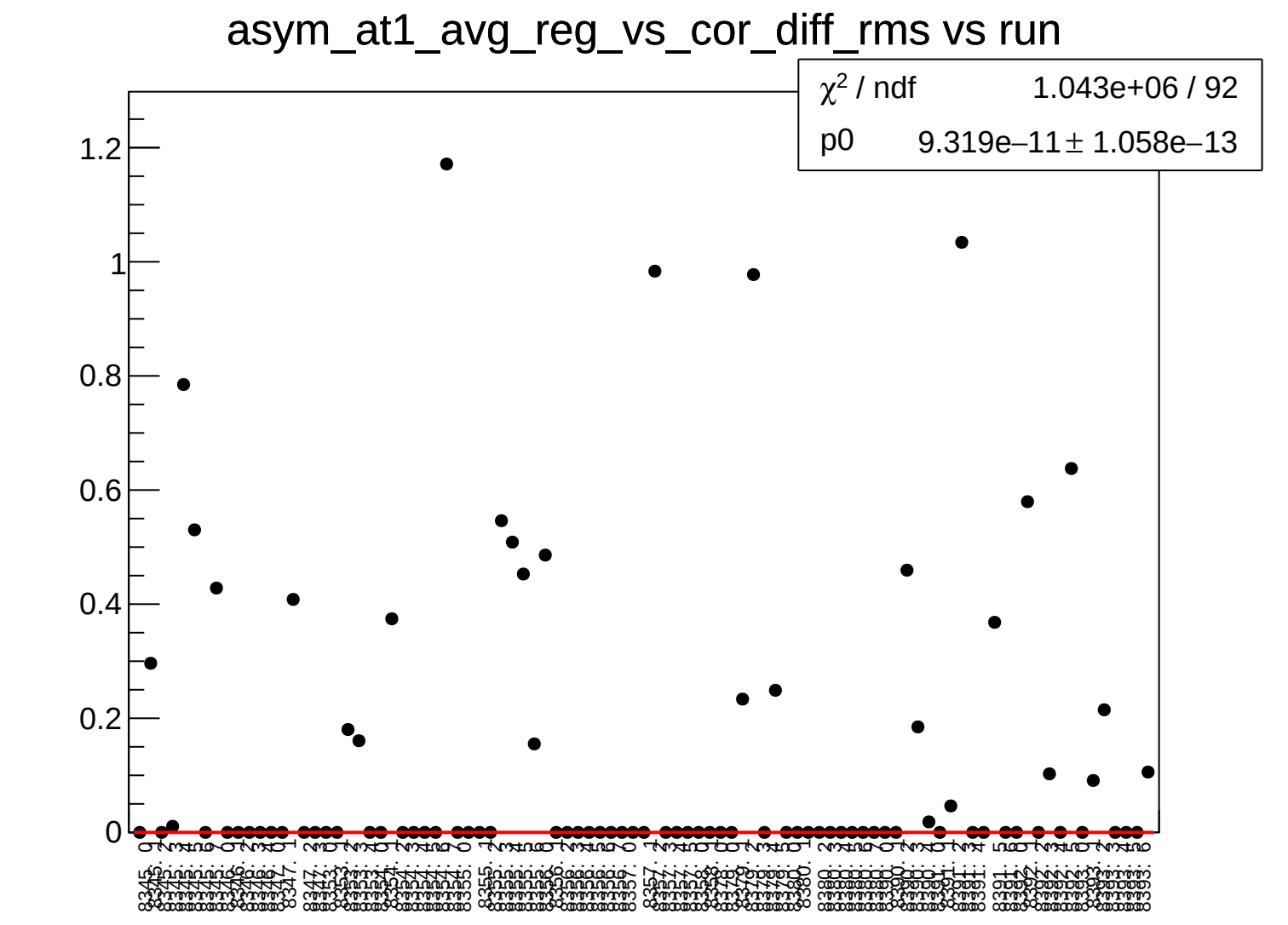

asym_at1_avg_eigen_dit_correction_rms vs run
χ² / ndf 7.786e+04 / 92
p0 974.2 ± 0.7383
1400
1300
1200
1100
1000
900
800
700

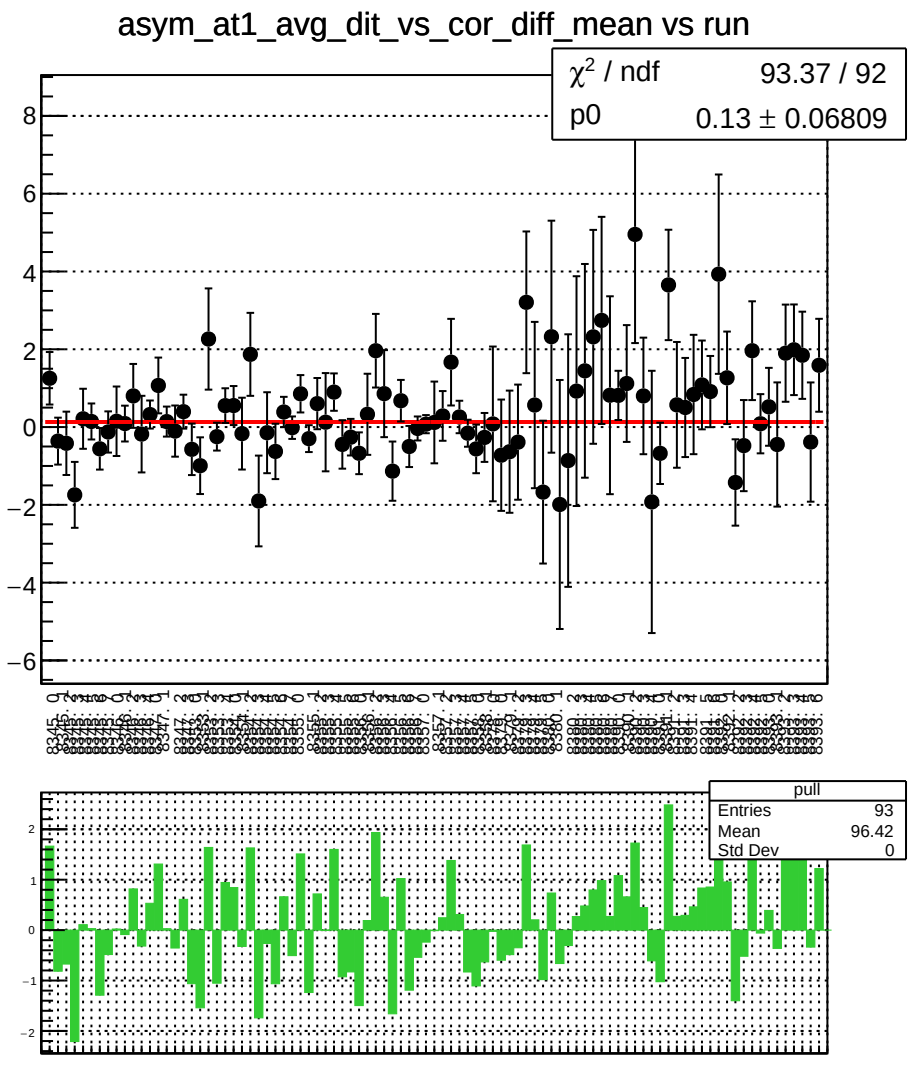

asym_at1_avg_mean vs run
χ² / ndf 77.58 / 92
p0 −1262 ± 2213
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 4398
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

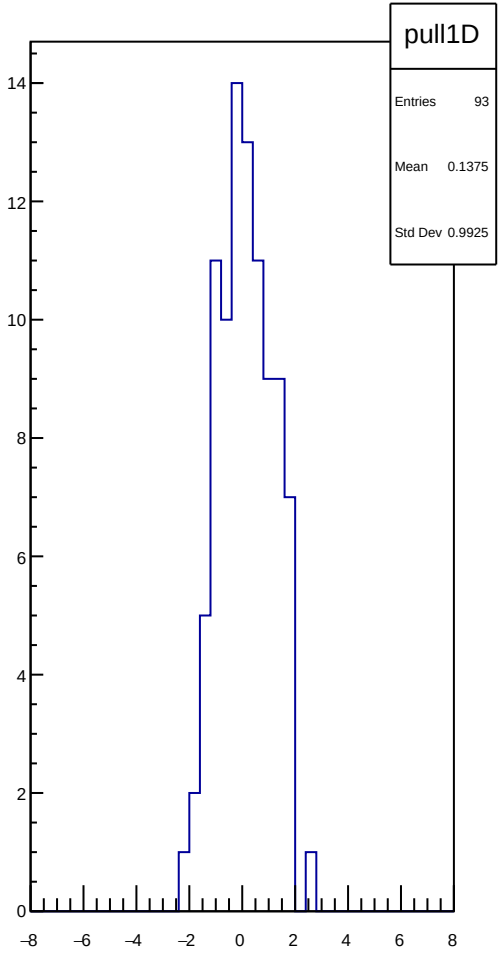

pull1D
Entries 93
Mean −0.0001551
Std Dev 0.9134
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

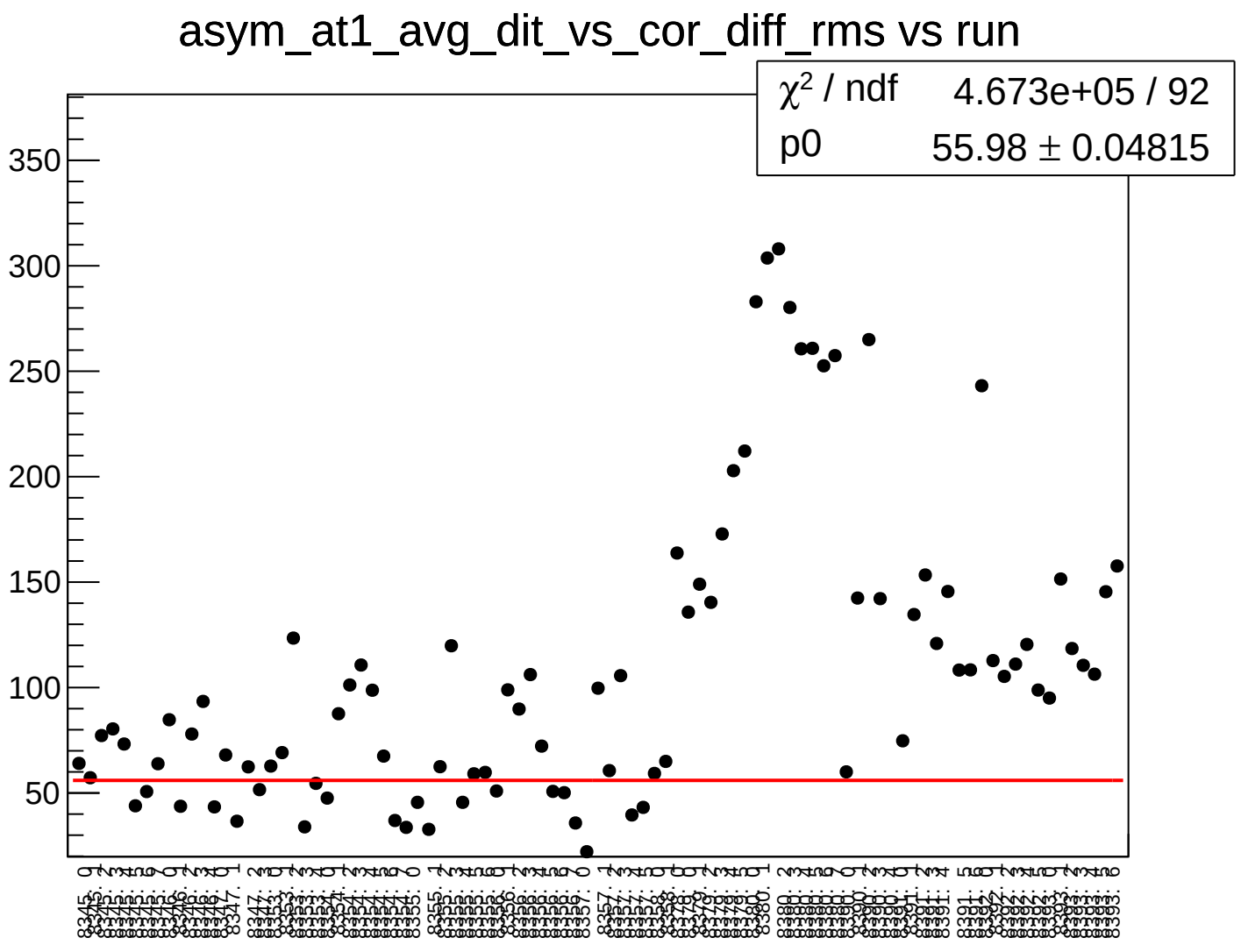

asym_at1_avg_rms vs run
χ² / ndf 9612 / 92
p0 2105 ± 1.565
2500
2400
2300
2200
2100
2000
1900
1800

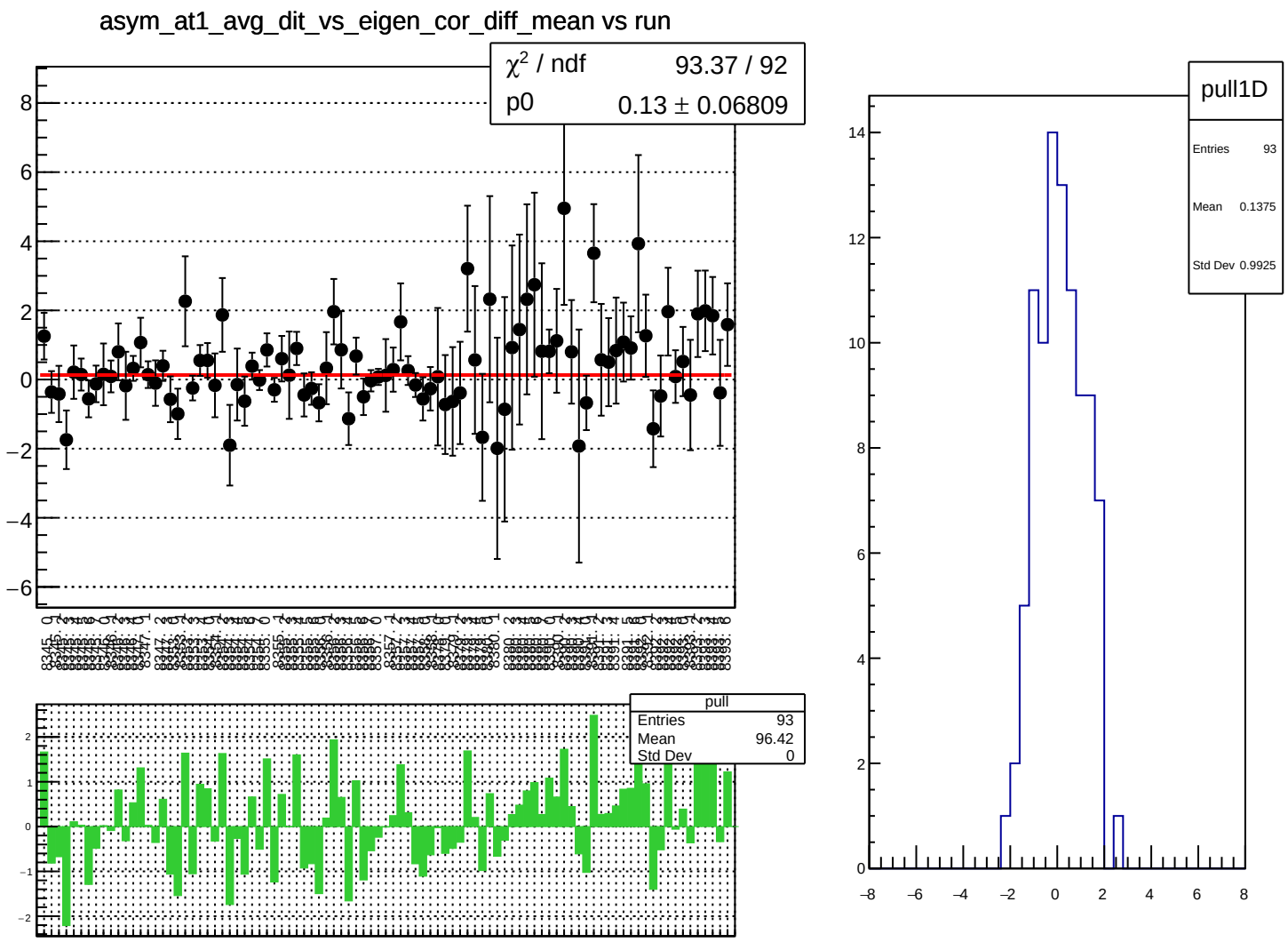

asym_at1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 97.05 / 92
p0 −2.61e−14 ± 1.497e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 93
Mean 23.5
Std Dev 35.87
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.02729
Std Dev 1.021
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

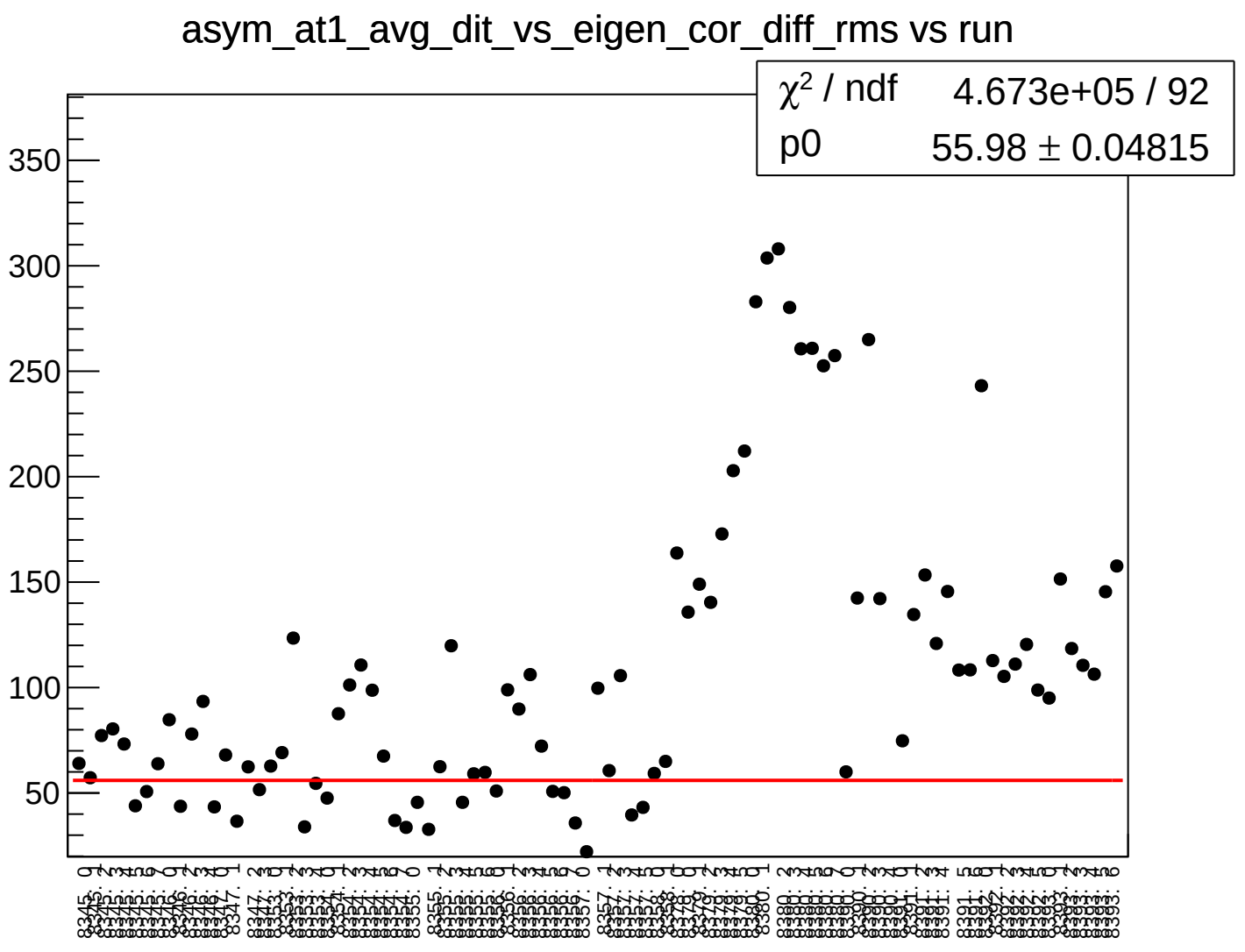

asym_at1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.043e+06 / 92
p0 9.319e−11 ± 1.058e−13
1.2
1
0.8
0.6
0.4
0.2
0

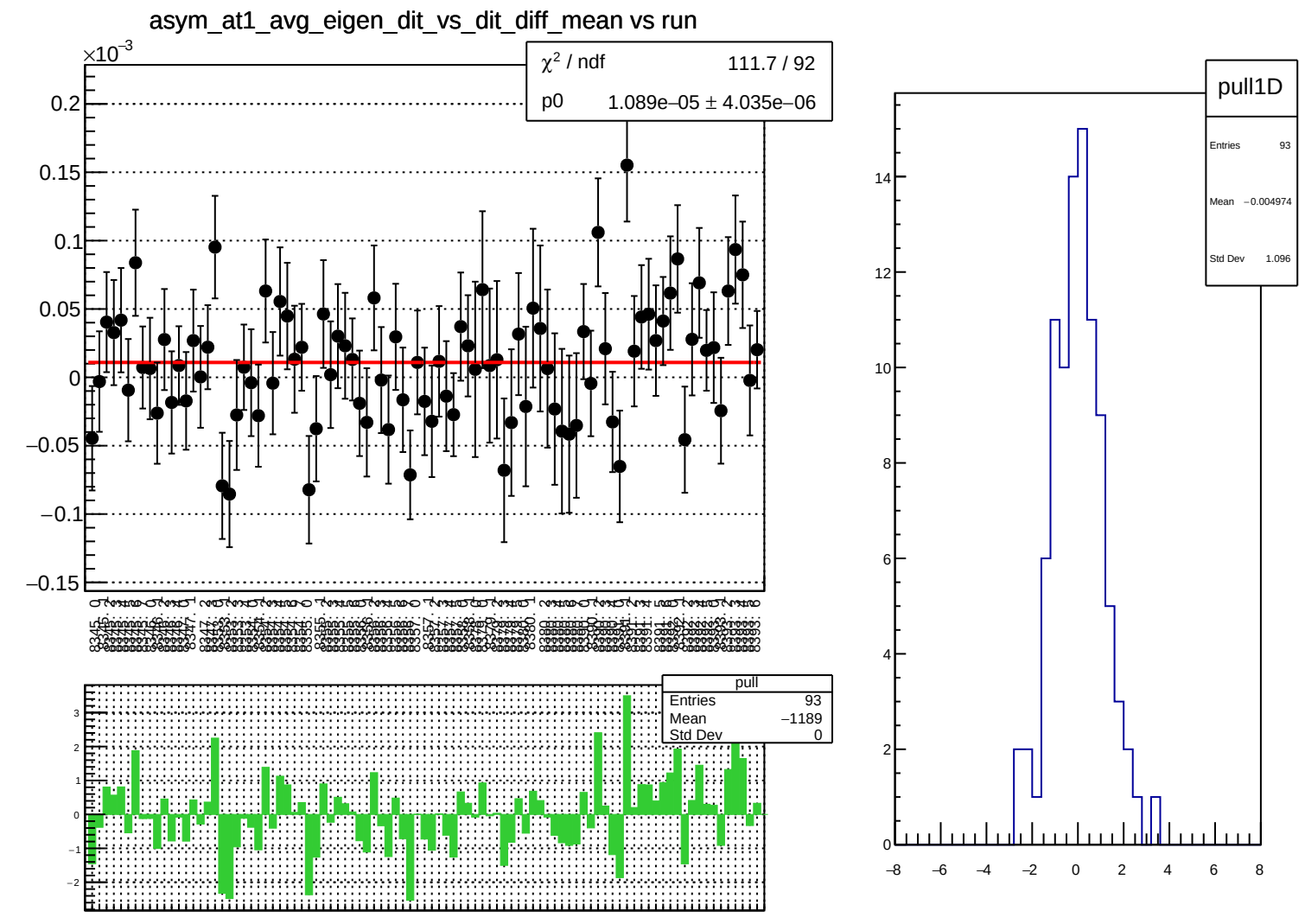

asym_at1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 93.37 / 92
p0 0.13 ± 0.06809
pull
Entries 93
Mean 96.42
Std Dev 0

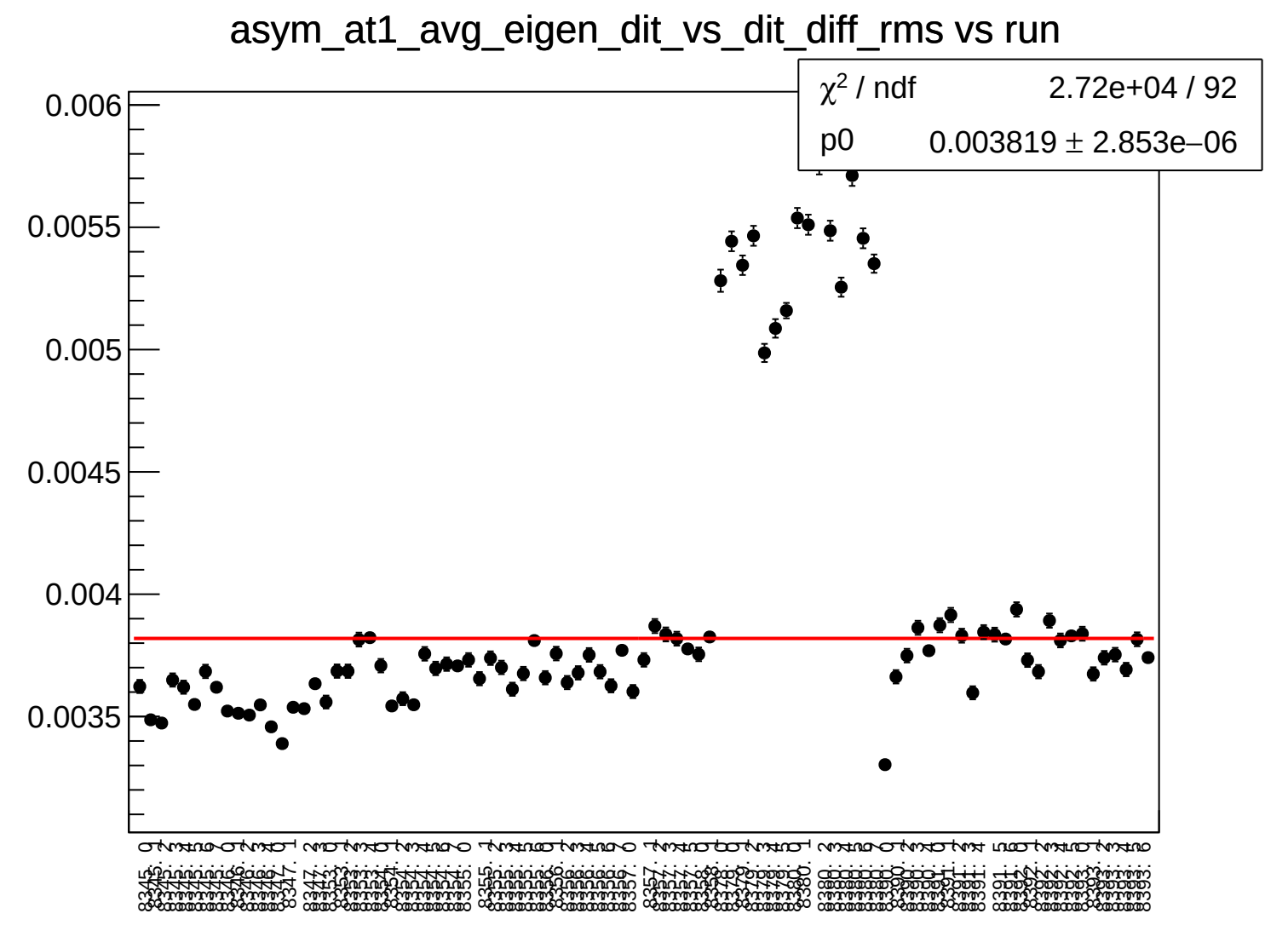

pull1D
Entries 93
Mean 0.1375
Std Dev 0.9925

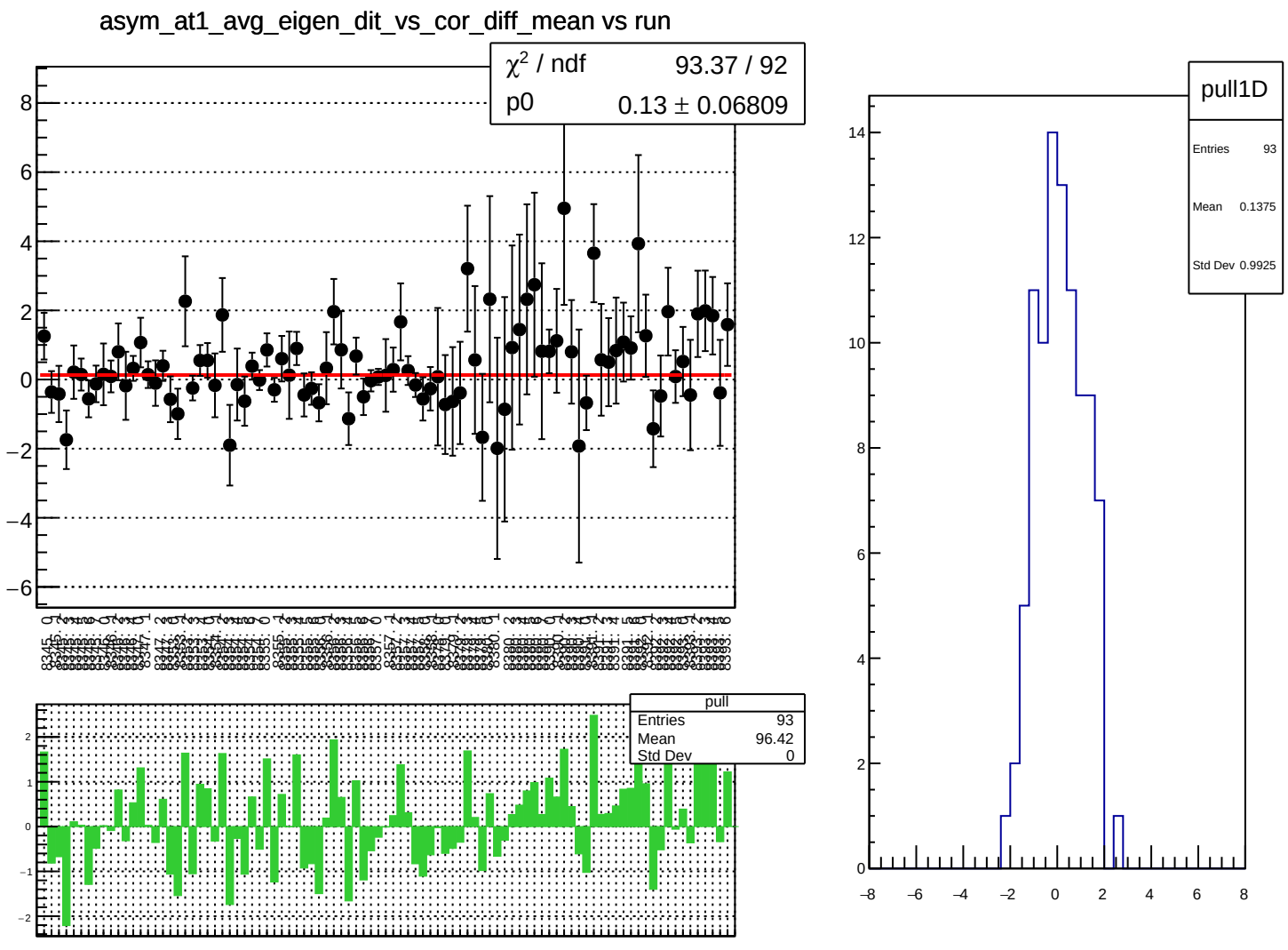

asym_at1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.673e+05 / 92
p0 55.98 ± 0.04815
350
300
250
200
150
100
50

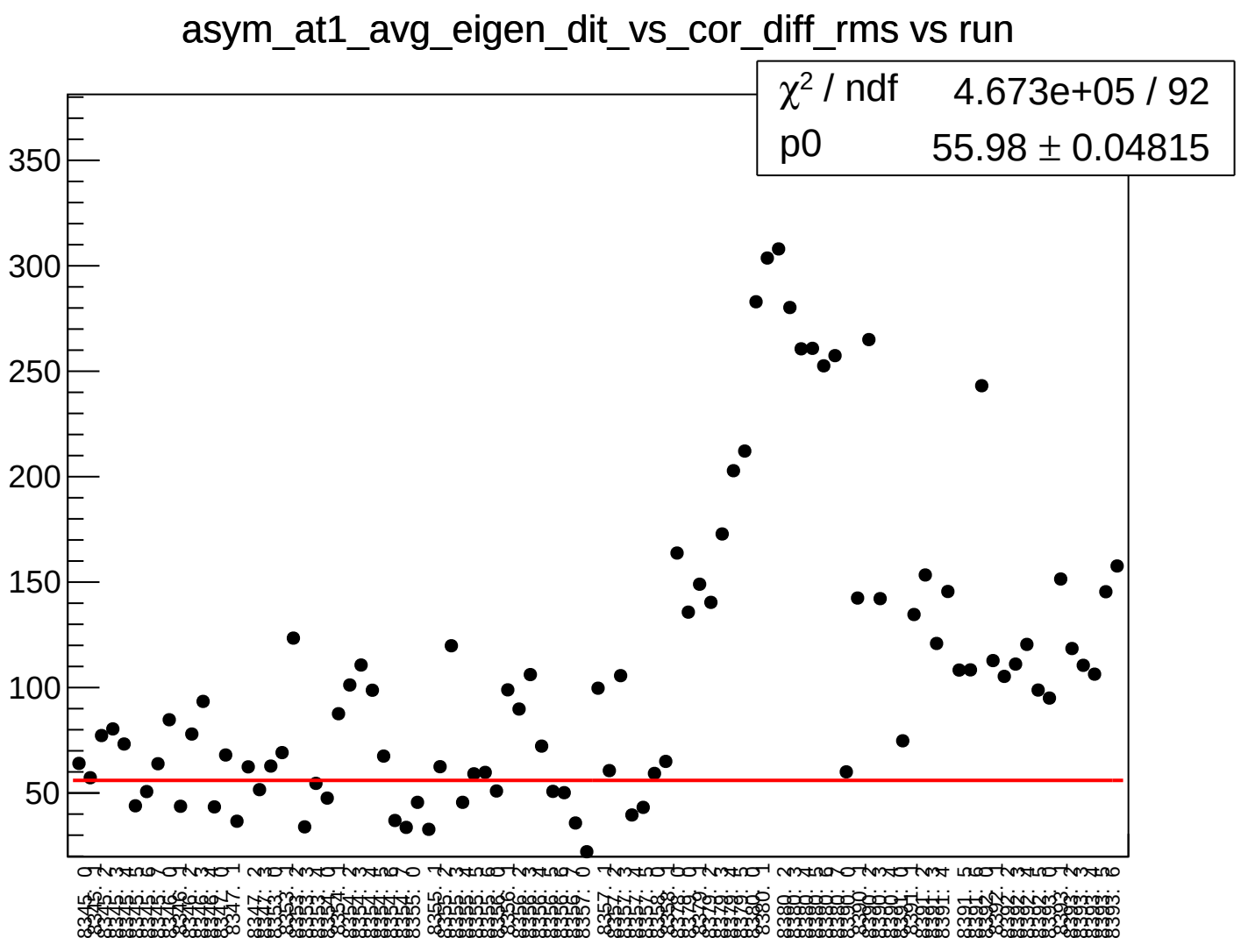

asym_at1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.37 / 92
p0 0.13 ± 0.06809
pull
Entries 93
Mean 96.42
Std Dev 0
pull1D
Entries 93
Mean 0.1375
Std Dev 0.9925

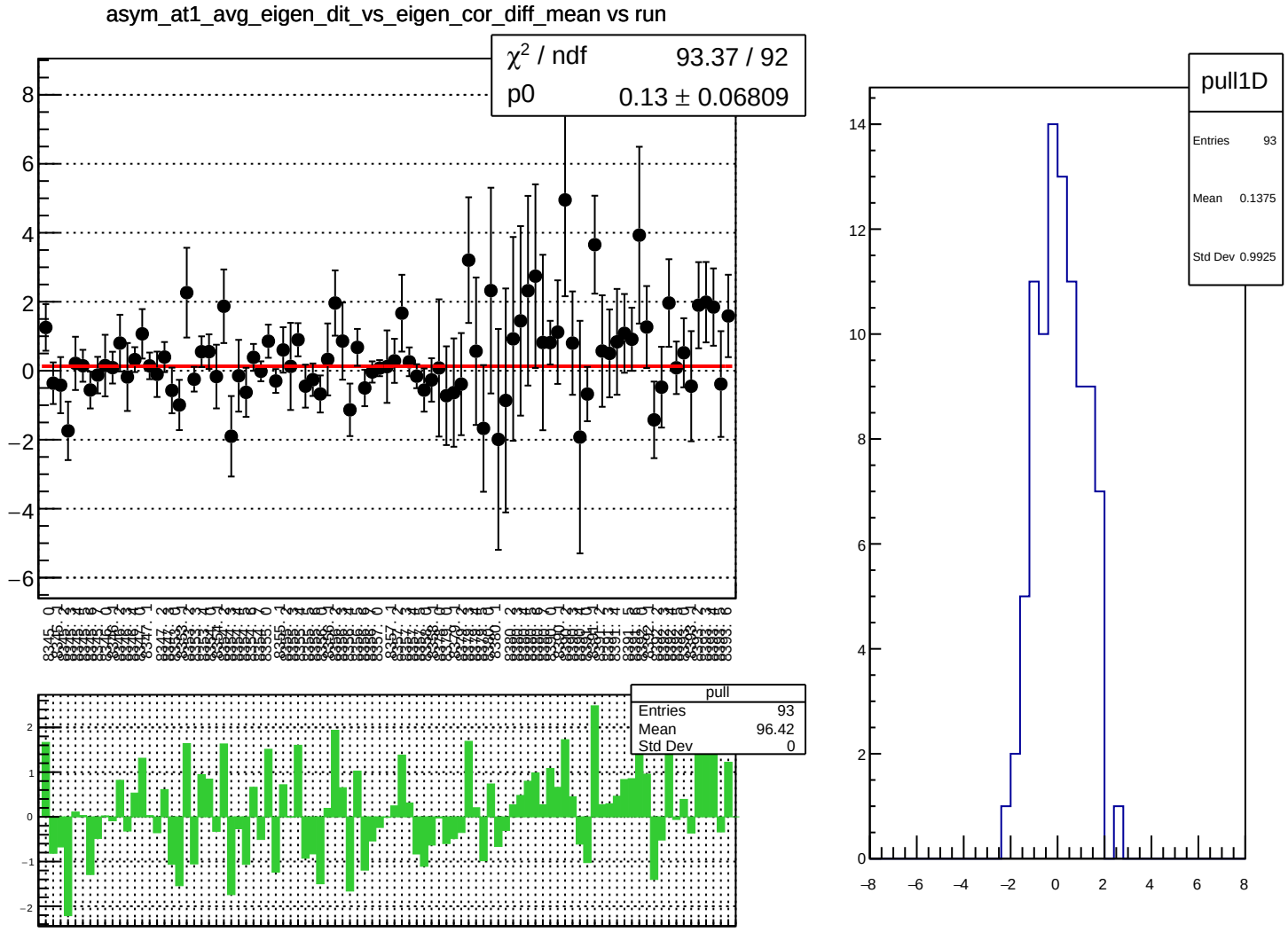

asym_at1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.673e+05 / 92
p0 55.98 ± 0.04815
350
300
250
200
150
100
50

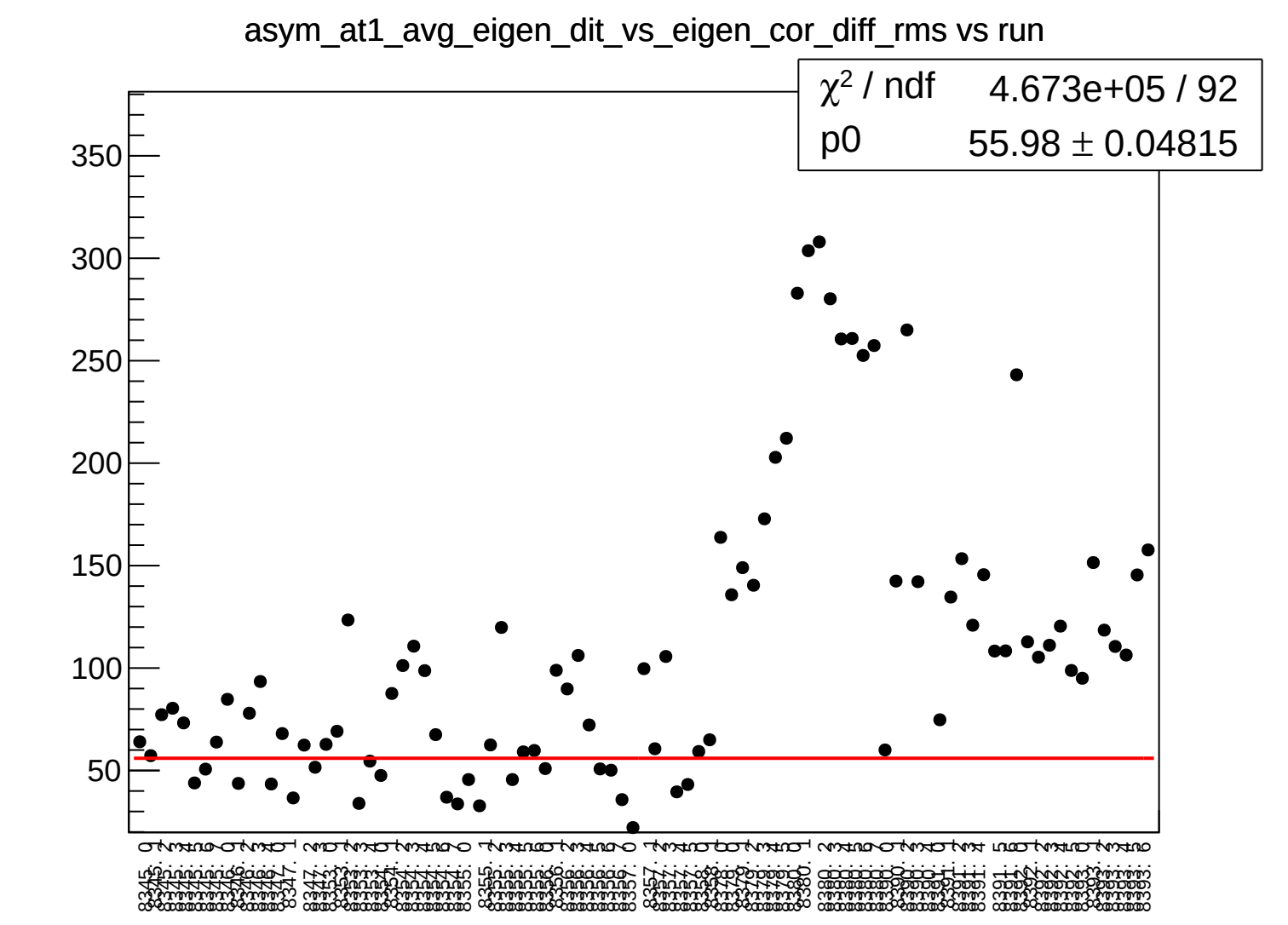

asym_at1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 111.7 / 92
p0 1.089e−05 ± 4.035e−06
pull
Entries 93
Mean −1189
Std Dev 0
pull1D
Entries 93
Mean −0.004974
Std Dev 1.096

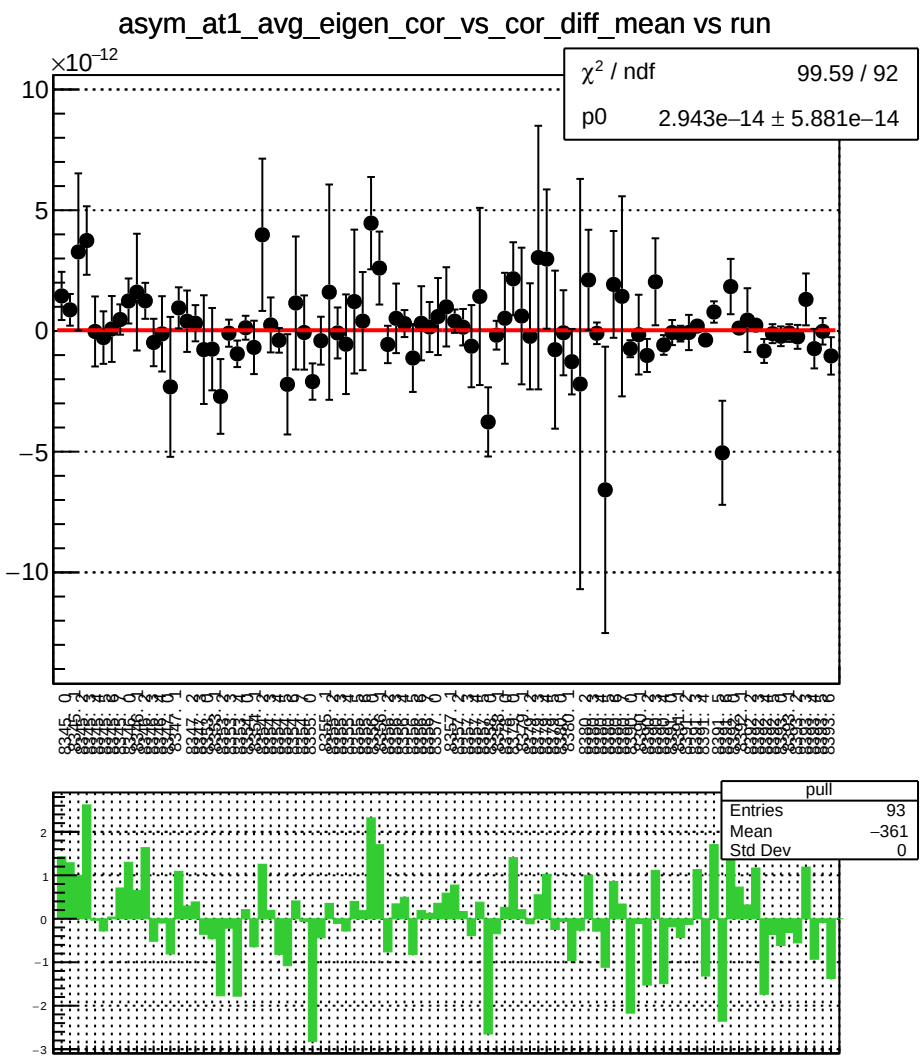

asym_at1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.72e+04 / 92
p0 0.003819 ± 2.853e−06
0.006
0.0055
0.005
0.0045
0.004
0.0035

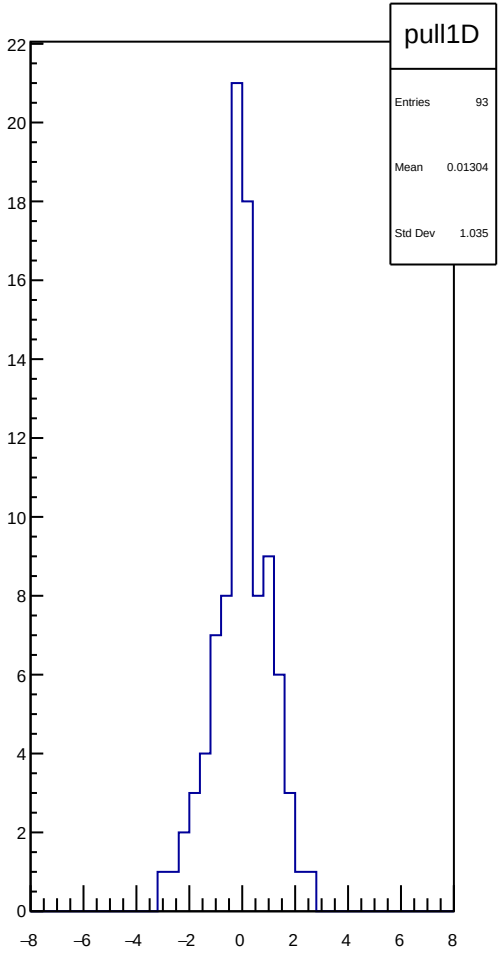

asym_at1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.37 / 92
p0 0.13 ± 0.06809
pull
Entries 93
Mean 96.42
Std Dev 0
pull1D
Entries 93
Mean 0.1375
Std Dev 0.9925

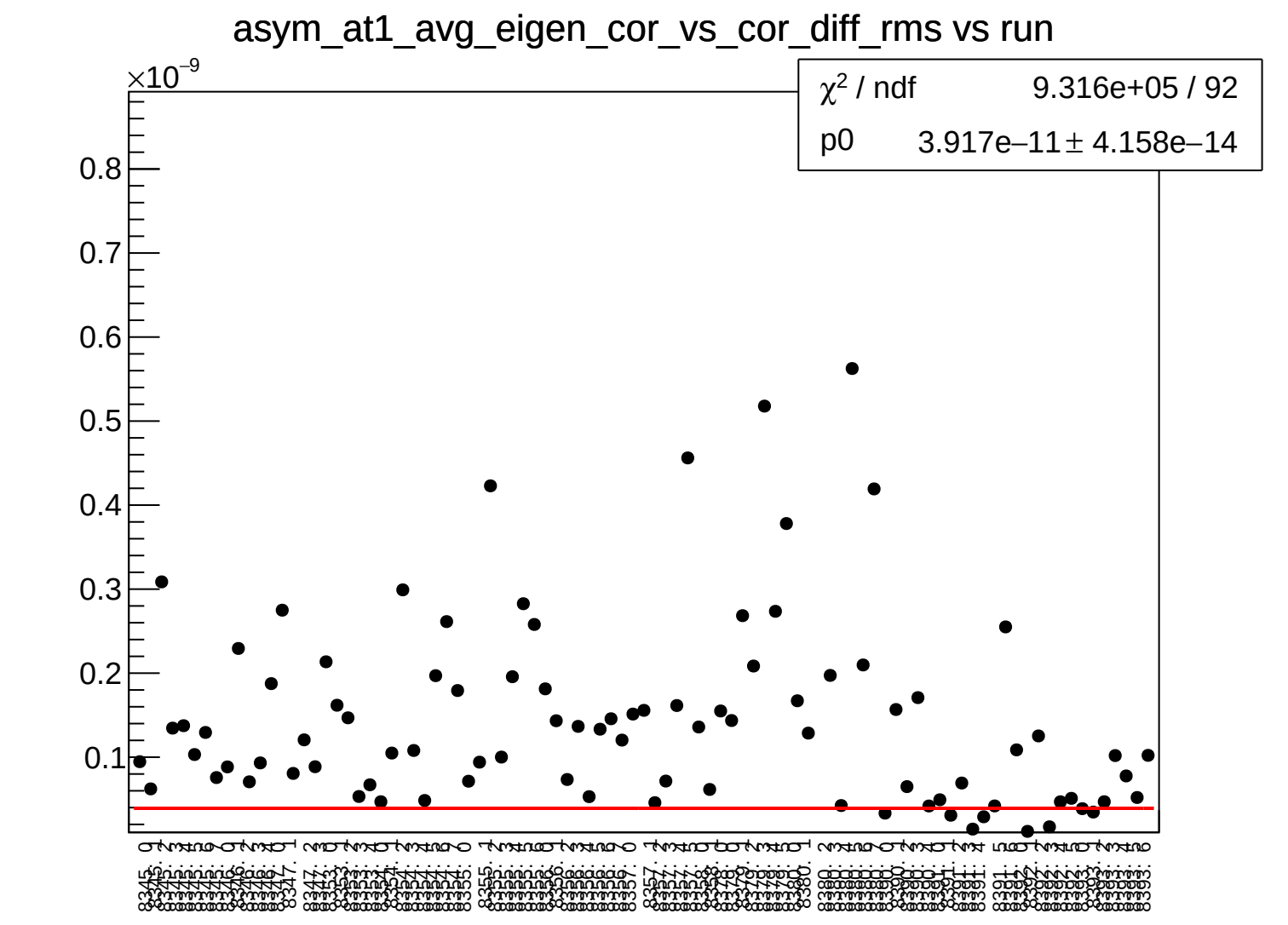

asym_at1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.673e+05 / 92
p0 55.98 ± 0.04815
350
300
250
200
150
100
50

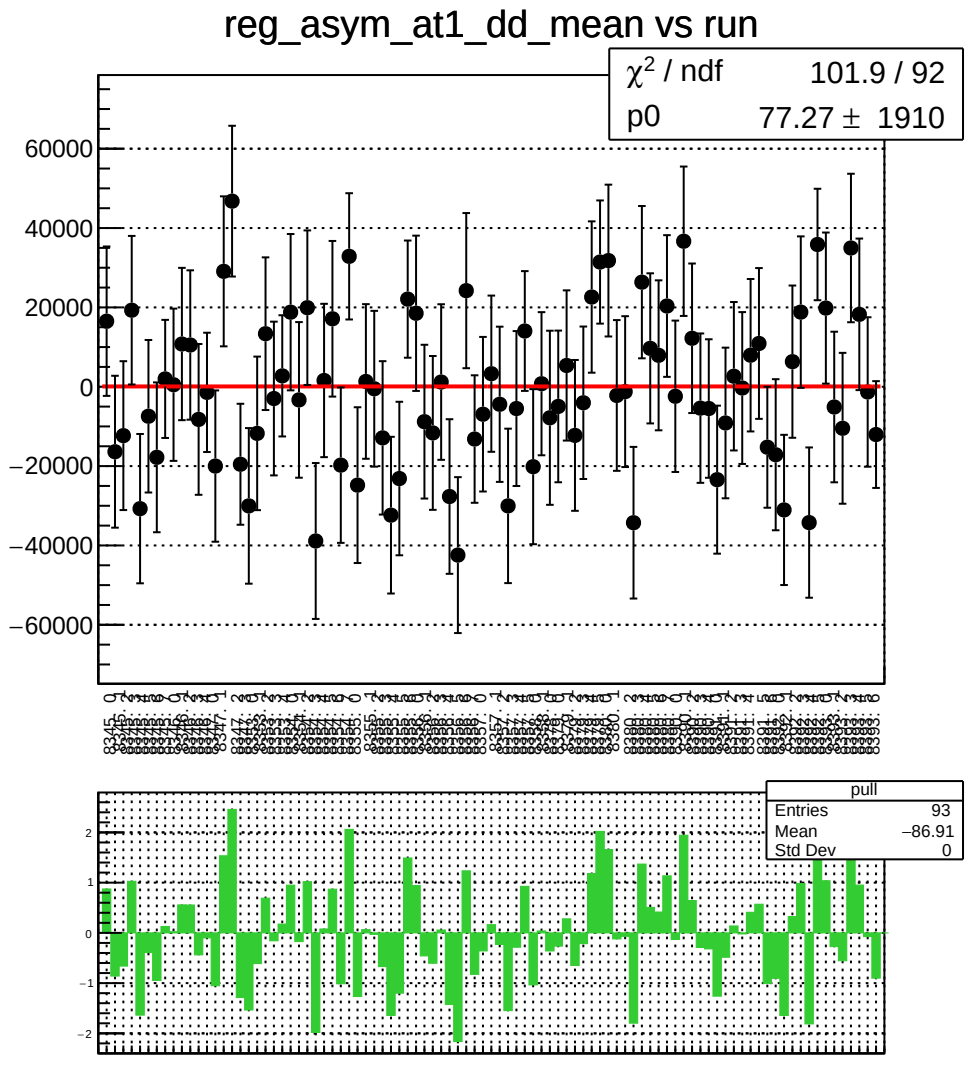

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.37 / 92
p0 0.13 ± 0.06809
pull
Entries 93
Mean 96.42
Std Dev 0
pull1D
Entries 93
Mean 0.1375
Std Dev 0.9925

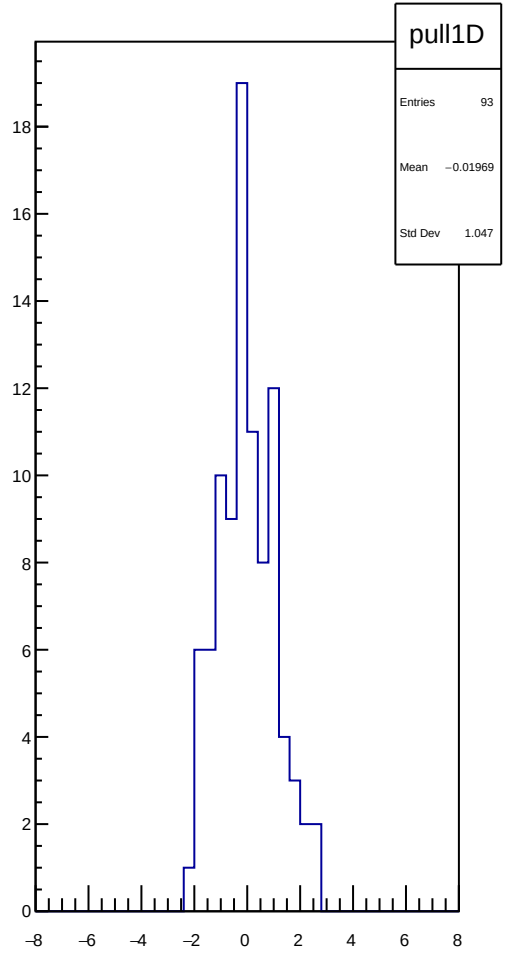

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.673e+05 / 92
p0 55.98 ± 0.04815
350
300
250
200
150
100
50

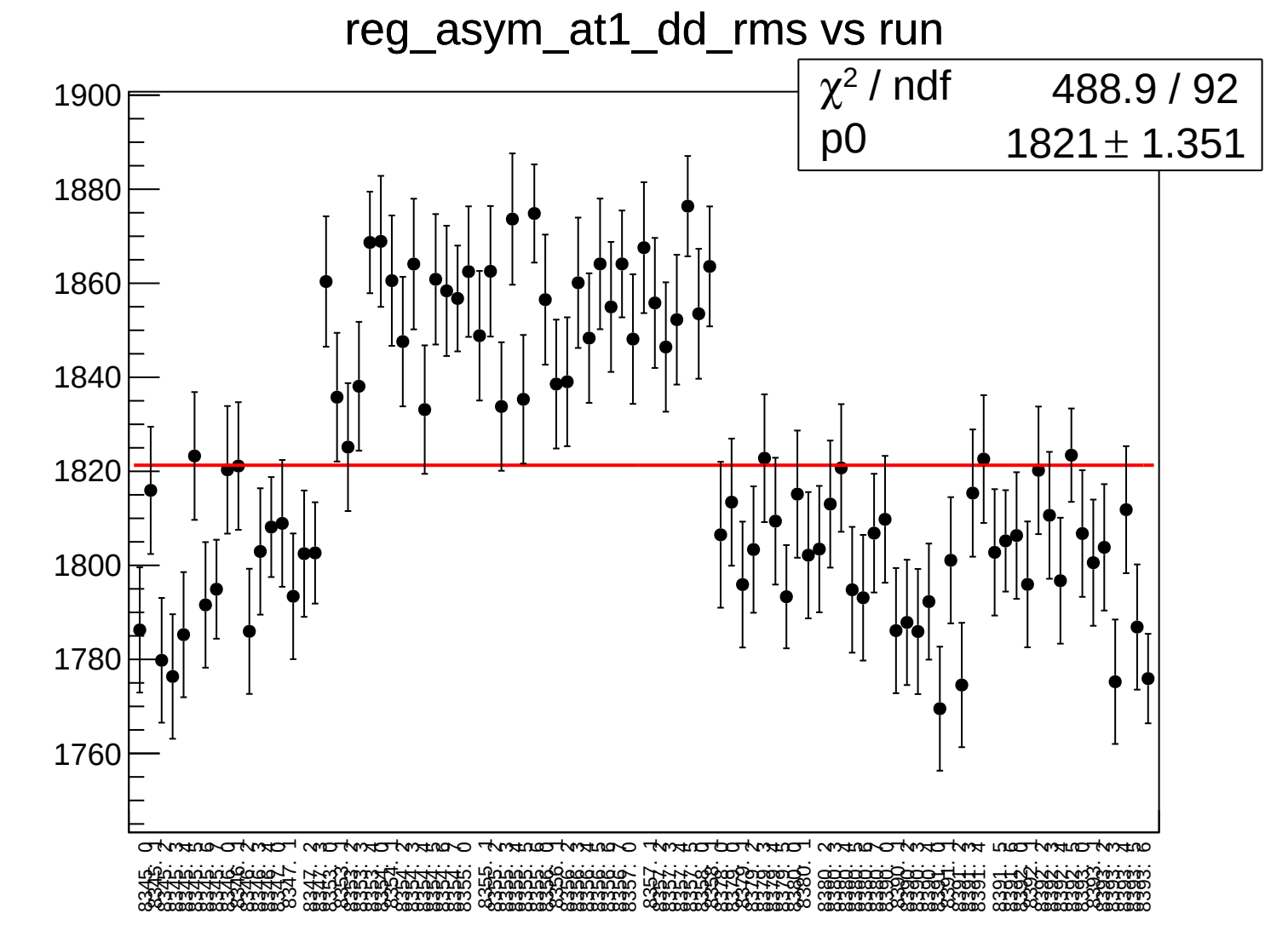

asym_at1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.59 / 92
p0 2.943e−14 ± 5.881e−14
pull
Entries 93
Mean −361
Std Dev 0

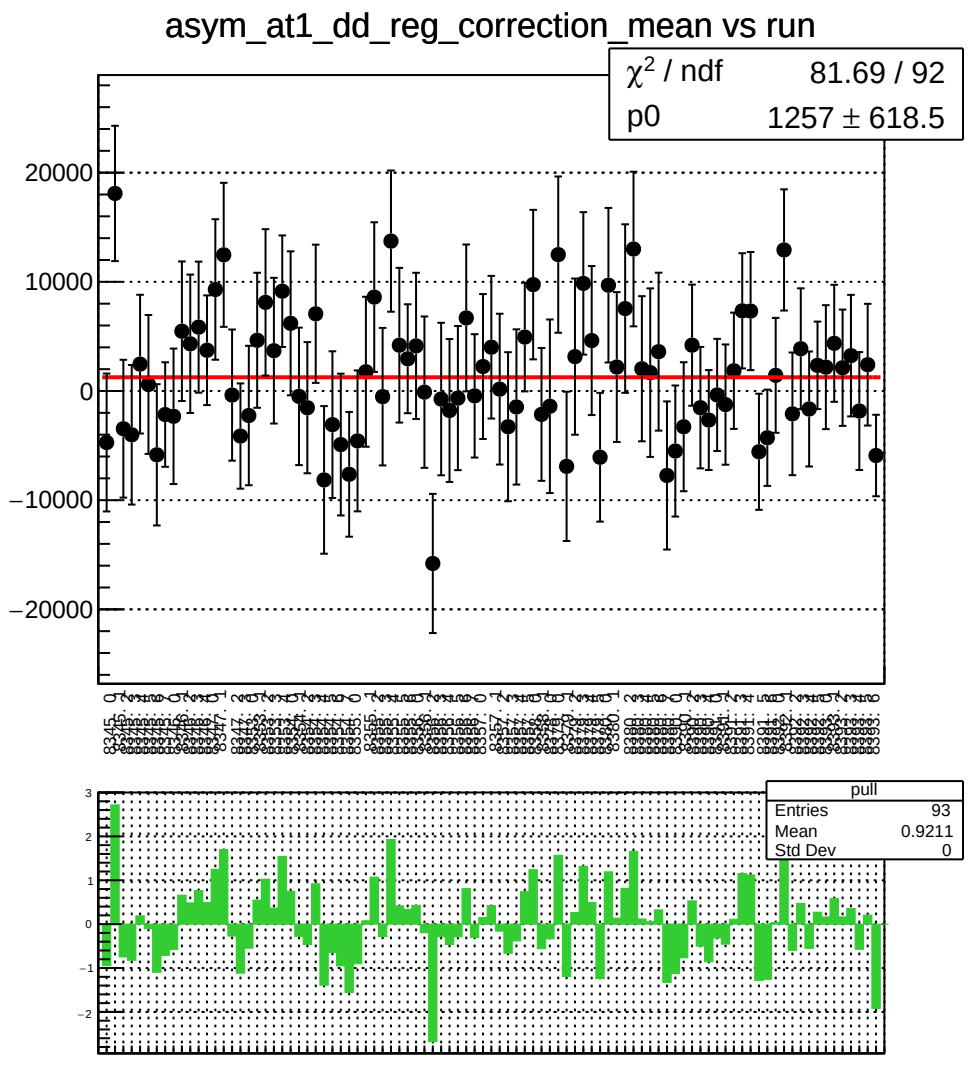

pull1D
Entries 93
Mean 0.01304
Std Dev 1.035

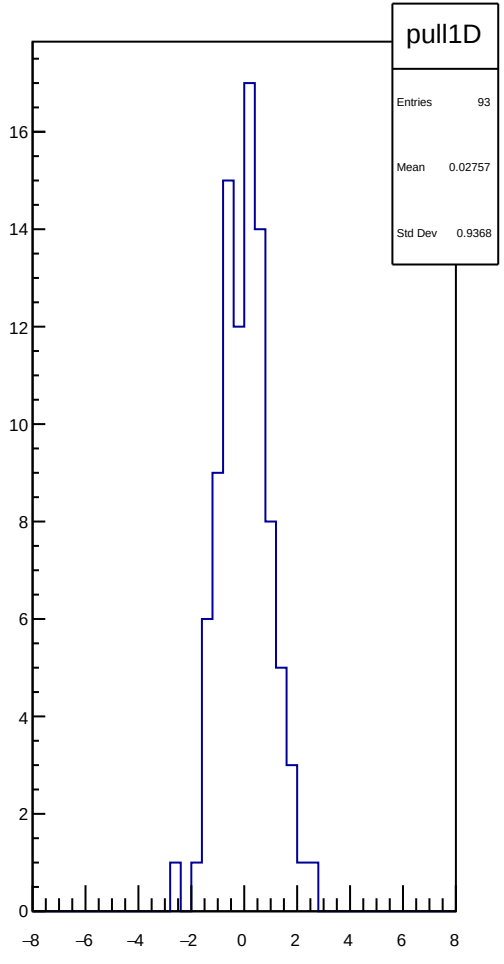

asym_at1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.316e+05 / 92
p0 3.917e−11 ± 4.158e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

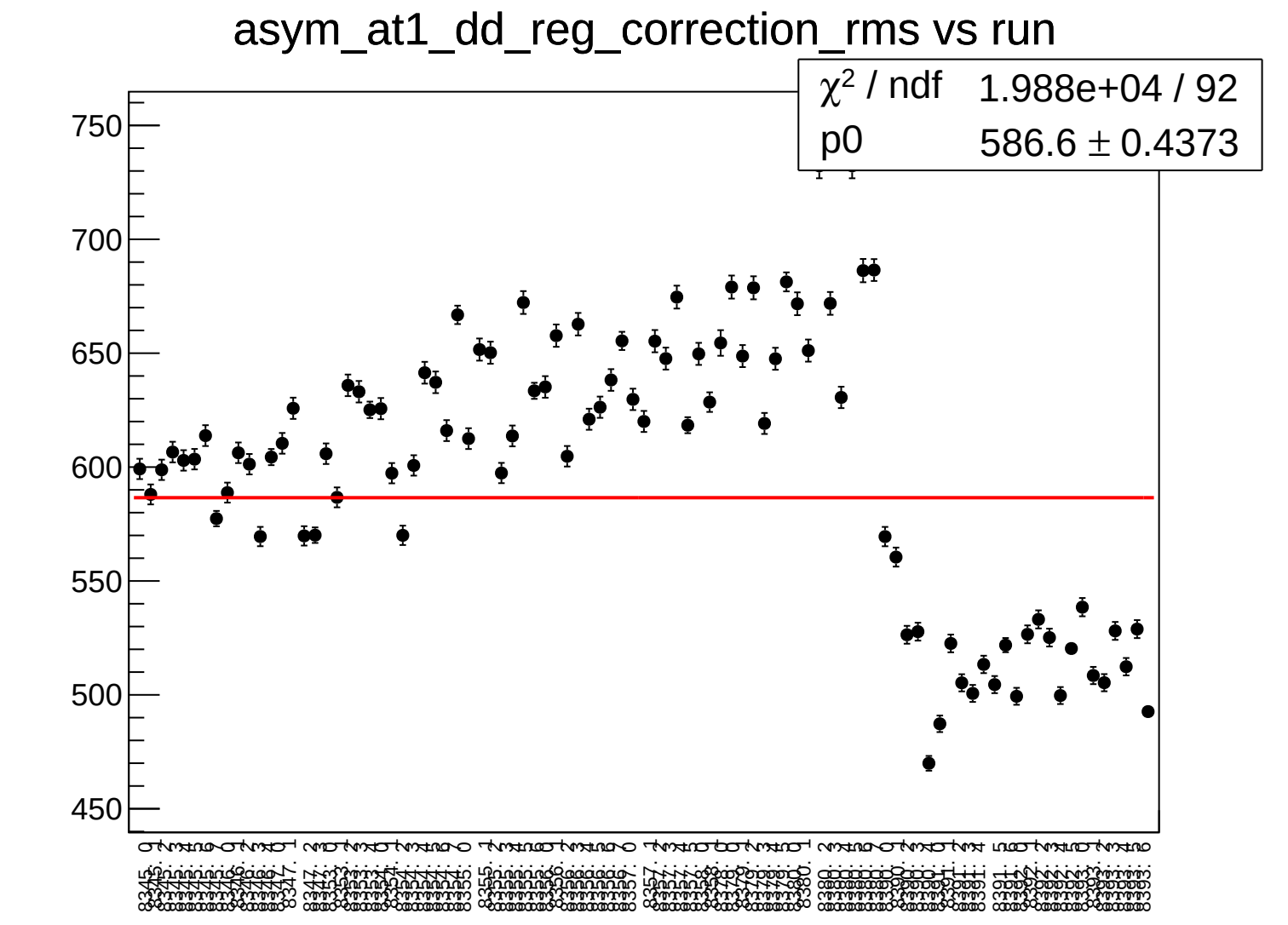

reg_asym_at1_dd_mean vs run
χ² / ndf 101.9 / 92
p0 77.27 ± 1910
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −86.91
Std Dev 0
2
1
0
−1
−2

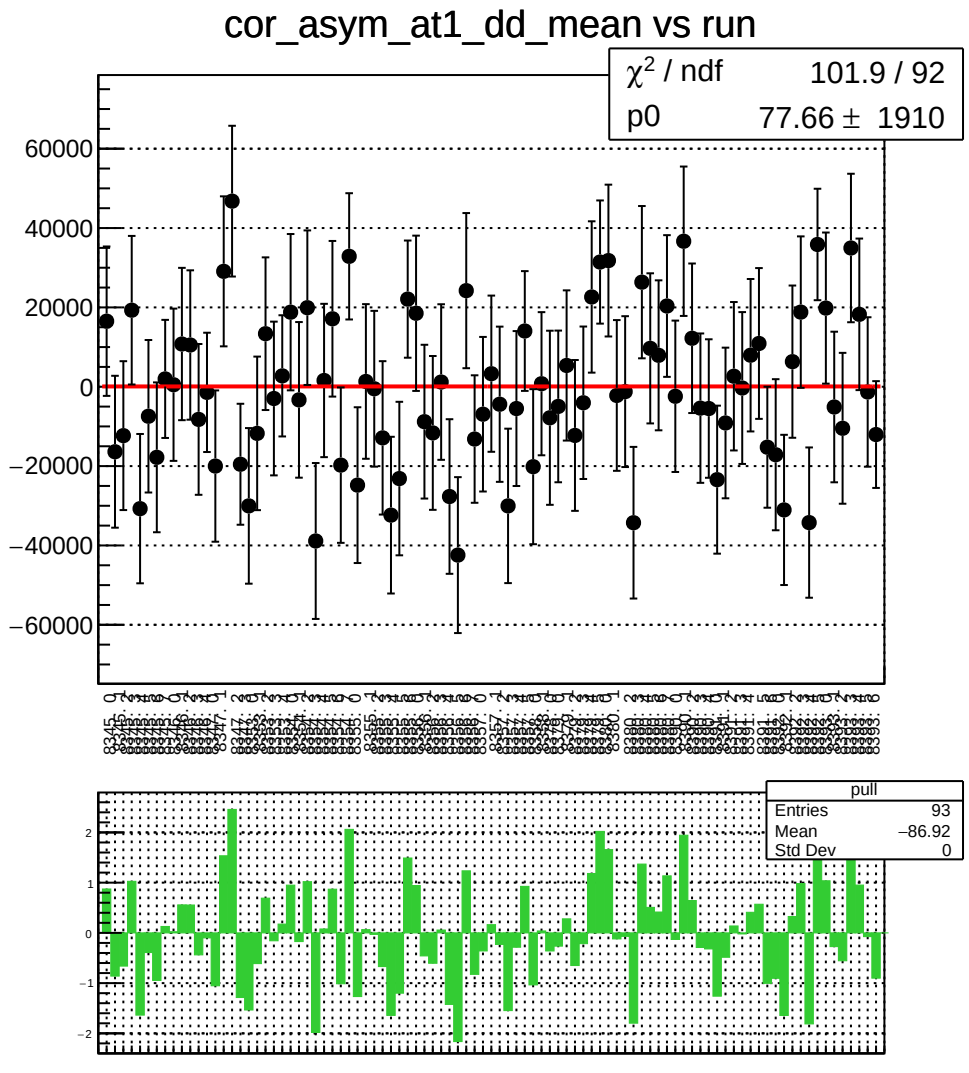

pull1D
Entries 93
Mean −0.01969
Std Dev 1.047
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

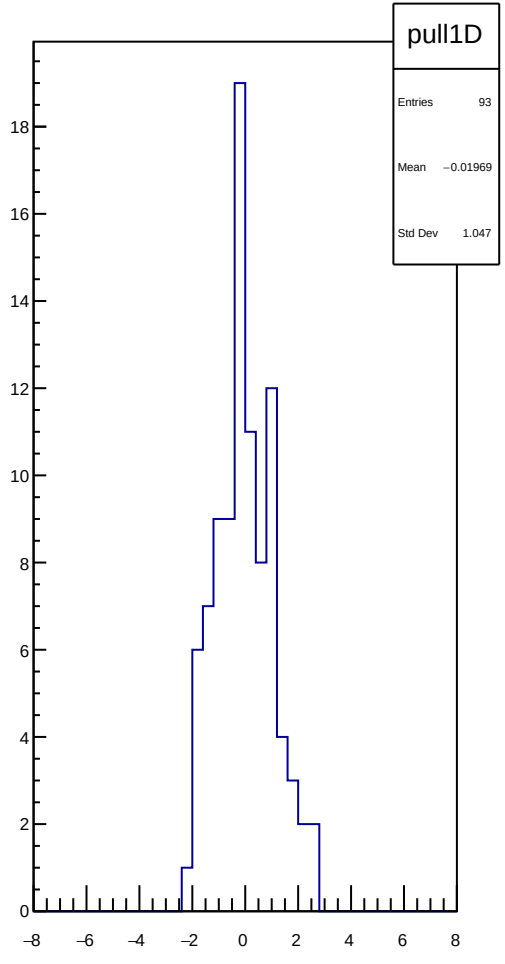

reg_asym_at1_dd_rms vs run
χ² / ndf 488.9 / 92
p0 1821 ± 1.351
1900
1880
1860
1840
1820
1800
1780
1760

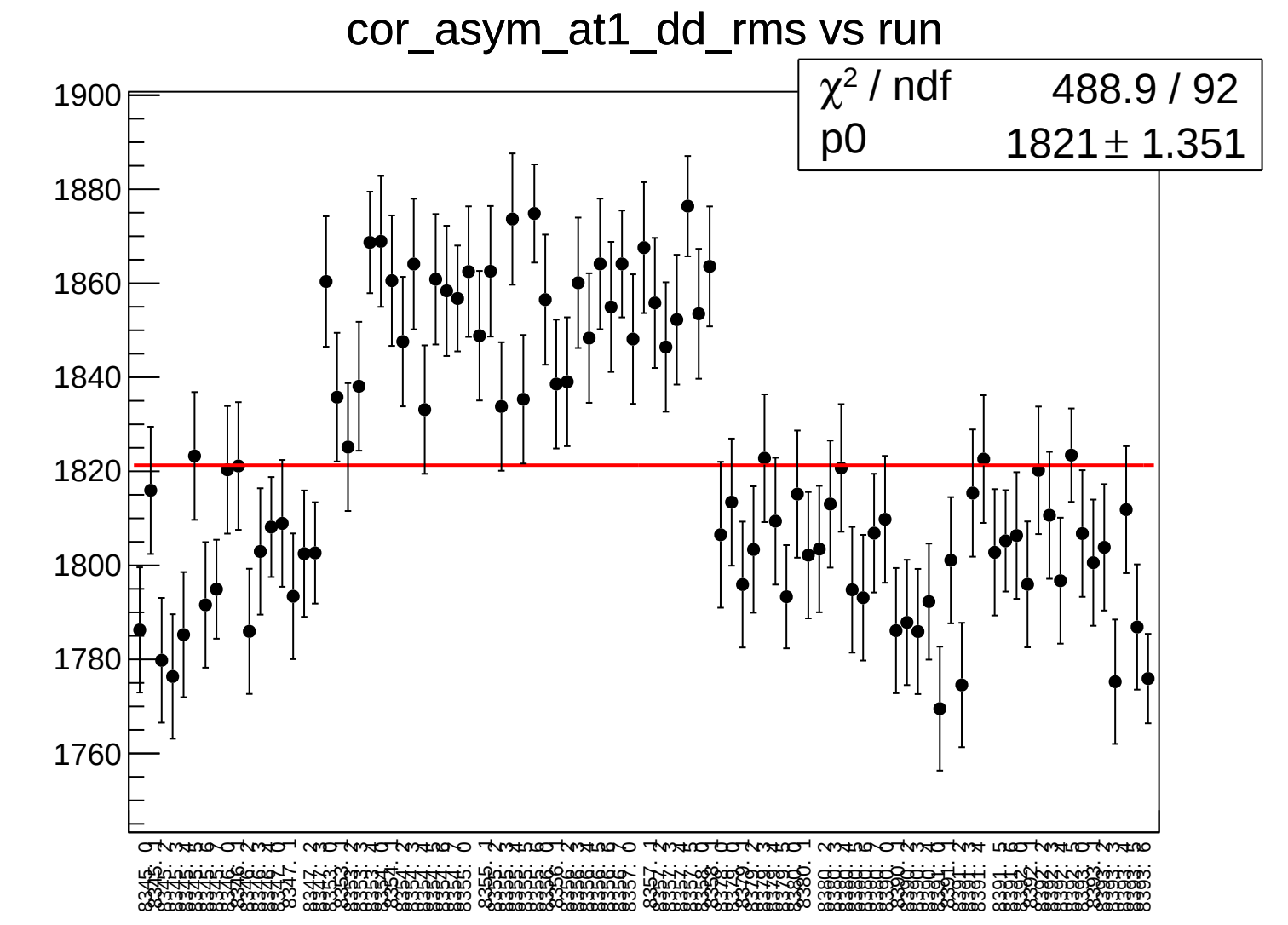

asym_at1_dd_reg_correction_mean vs run
χ² / ndf 81.69 / 92
p0 1257 ± 618.5
20000
10000
0
−10000
−20000
pull
Entries 93
Mean 0.9211
Std Dev 0
3
2
1
0
−1
−2

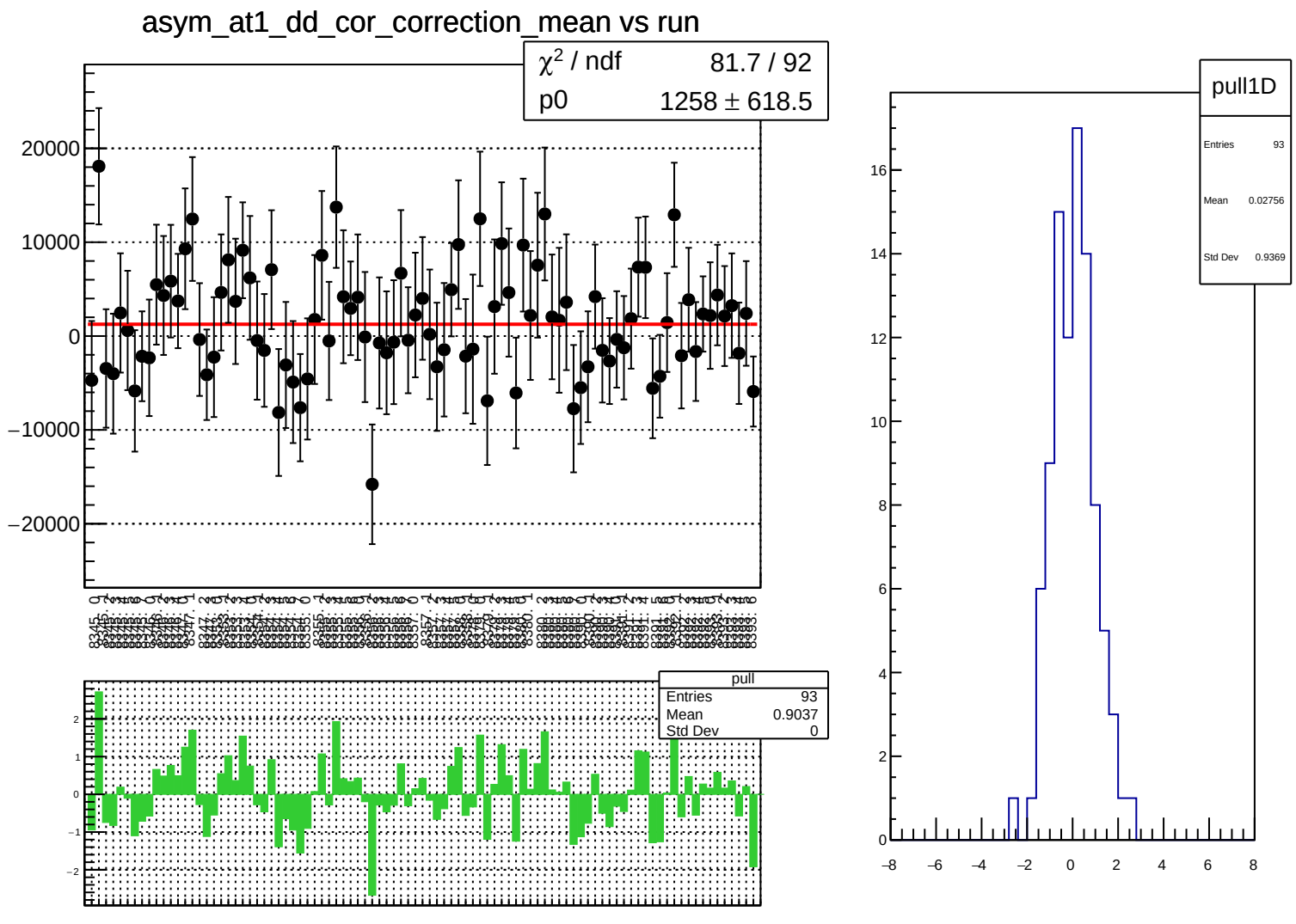

pull1D
Entries 93
Mean 0.02757
Std Dev 0.9368
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

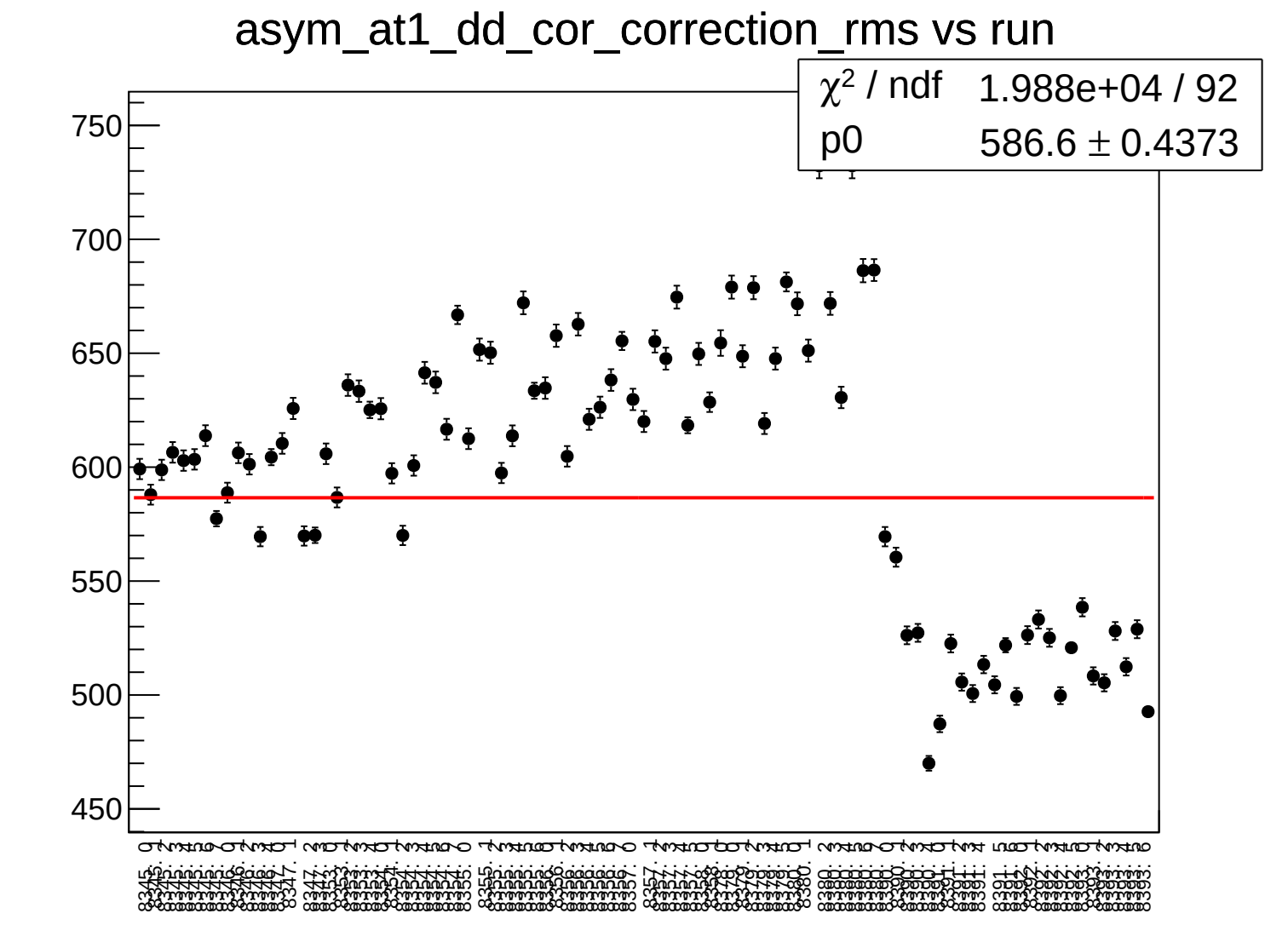

asym_at1_dd_reg_correction_rms vs run
χ² / ndf 1.988e+04 / 92
p0 586.6 ± 0.4373
750
700
650
600
550
500
450

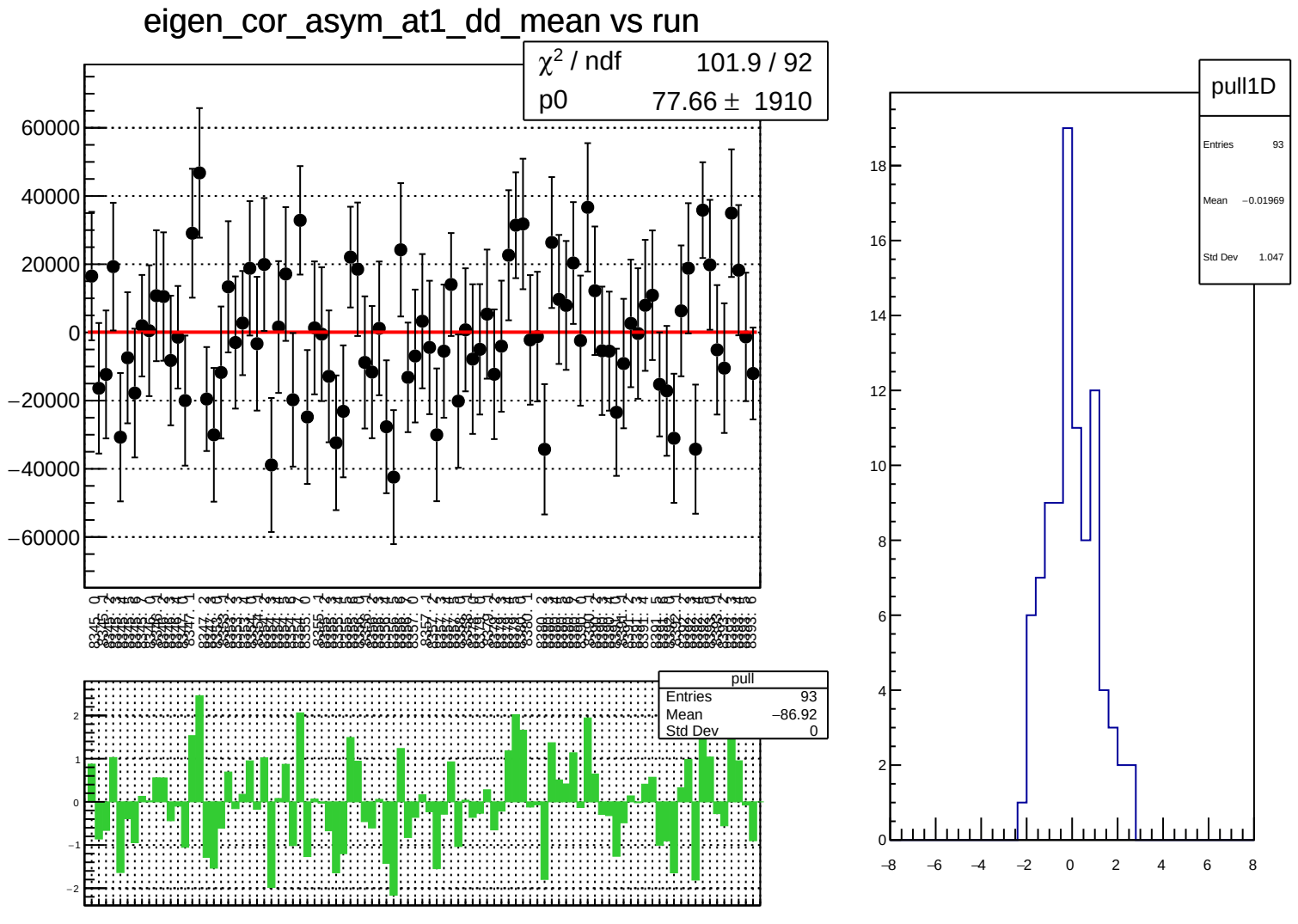

cor_asym_at1_dd_mean vs run
χ² / ndf 101.9 / 92
p0 77.66 ± 1910
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −86.92
Std Dev 0
2
1
0
−1
−2

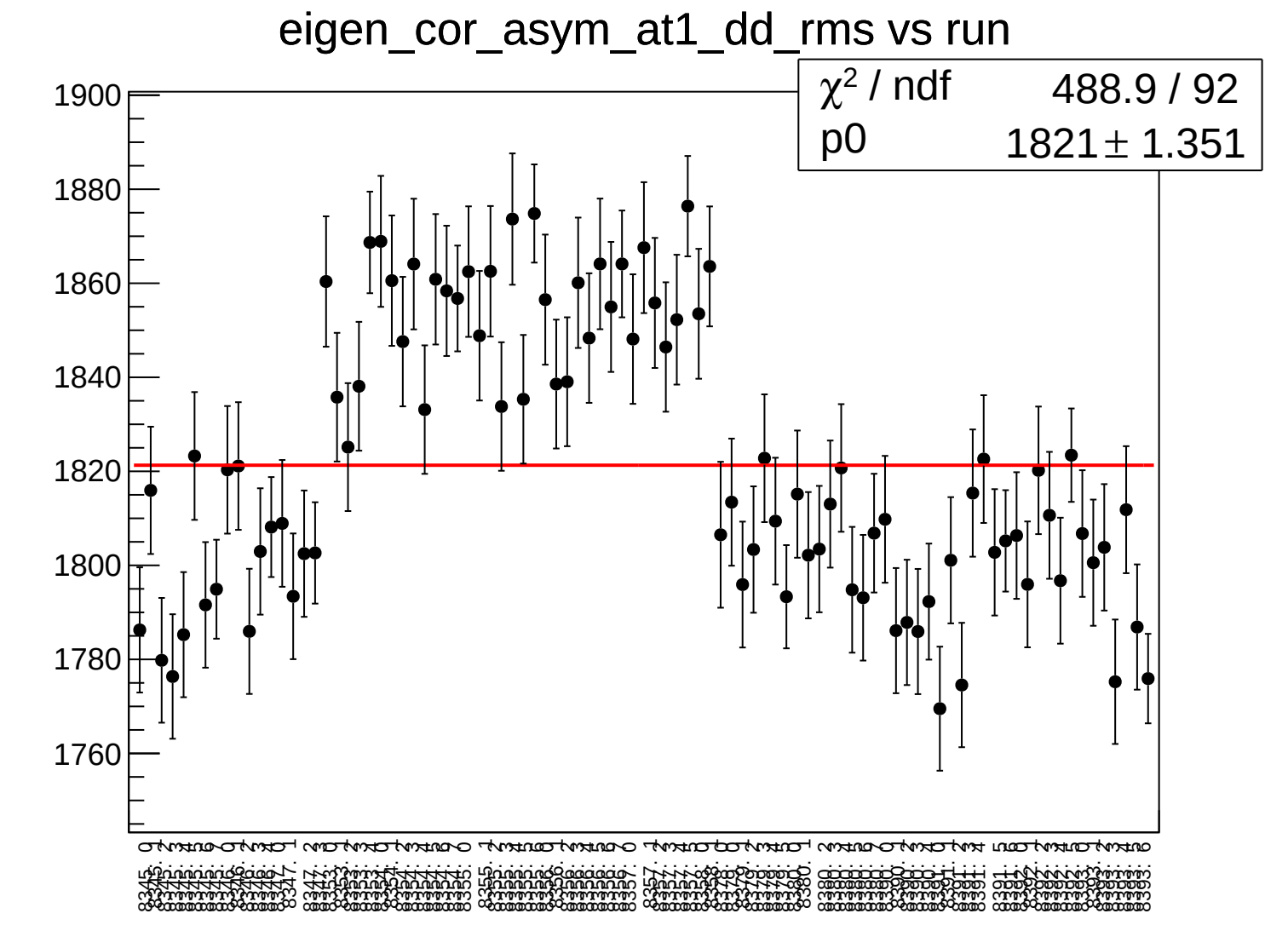

pull1D
Entries 93
Mean −0.01969
Std Dev 1.047
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

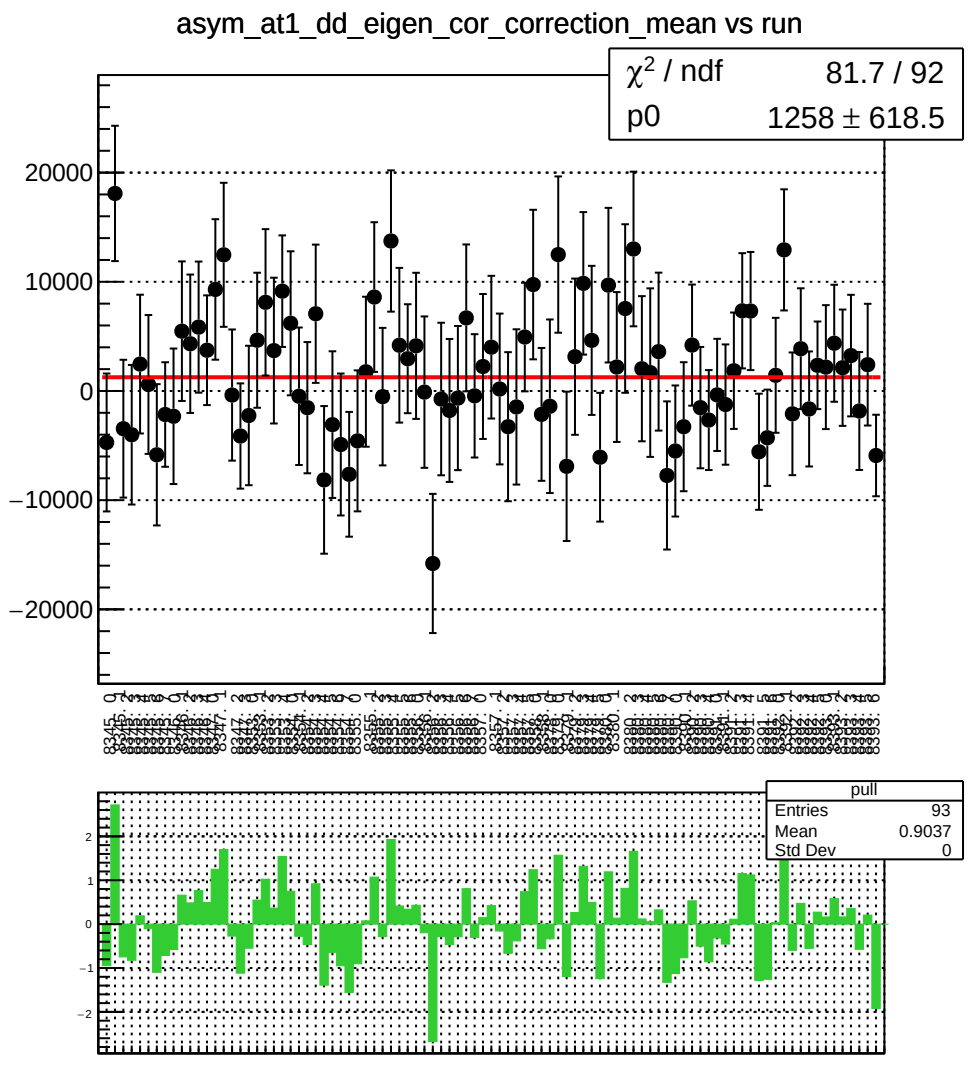

cor_asym_at1_dd_rms vs run
χ² / ndf 488.9 / 92
p0 1821 ± 1.351
1900
1880
1860
1840
1820
1800
1780
1760

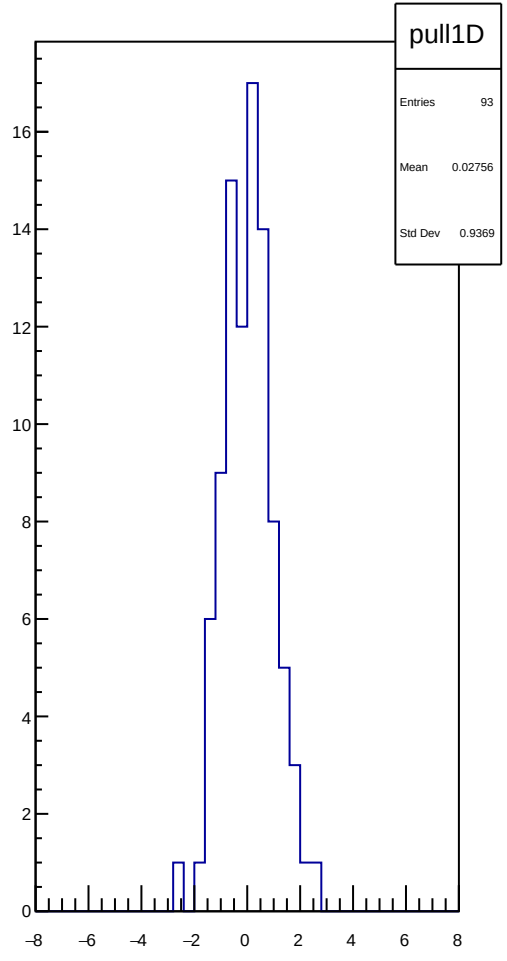

asym_at1_dd_cor_correction_mean vs run
χ² / ndf 81.7 / 92
p0 1258 ± 618.5
20000
10000
0
−10000
−20000
pull
Entries 93
Mean 0.9037
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.02756
Std Dev 0.9369
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

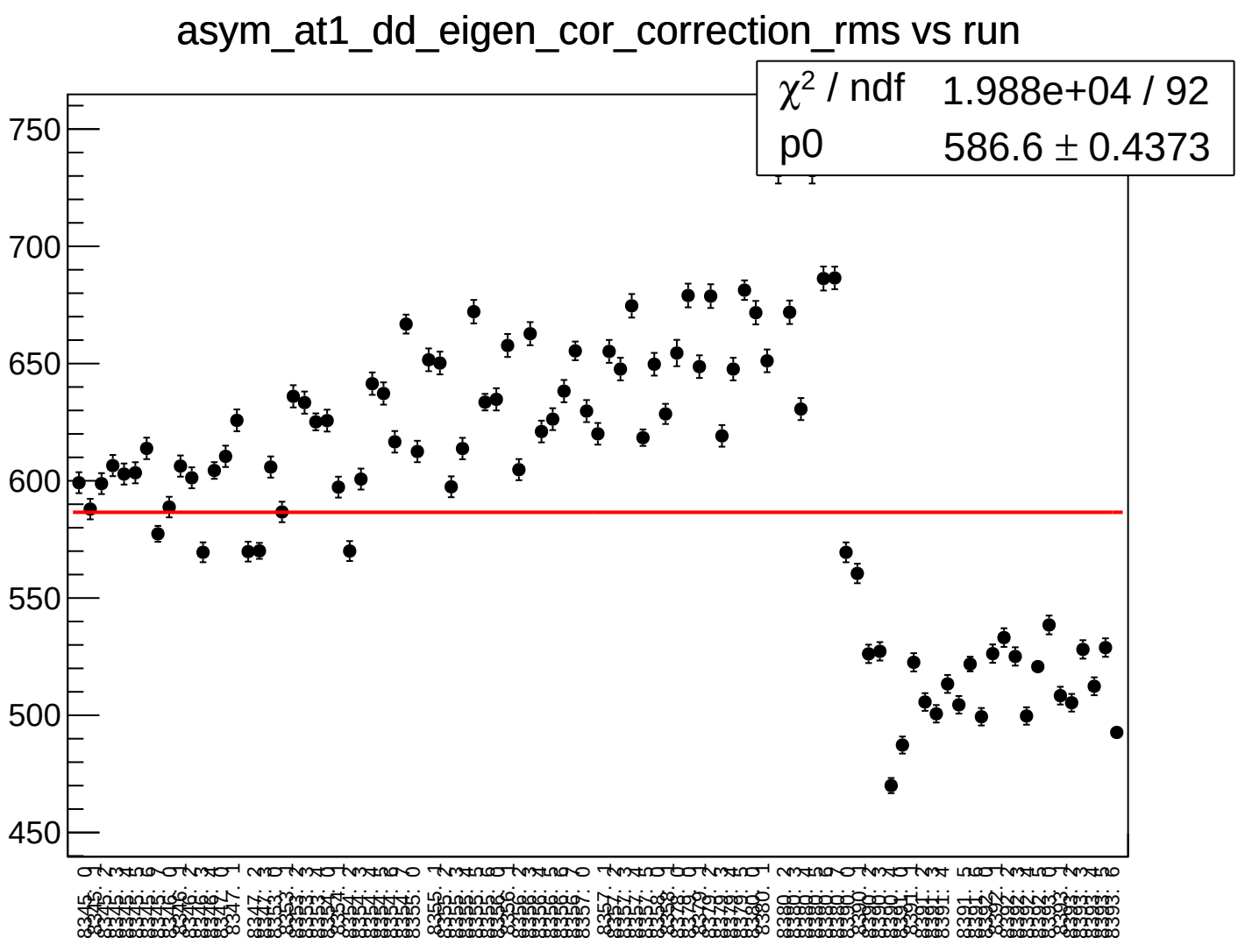

asym_at1_dd_cor_correction_rms vs run
χ² / ndf 1.988e+04 / 92
p0 586.6 ± 0.4373
750
700
650
600
550
500
450

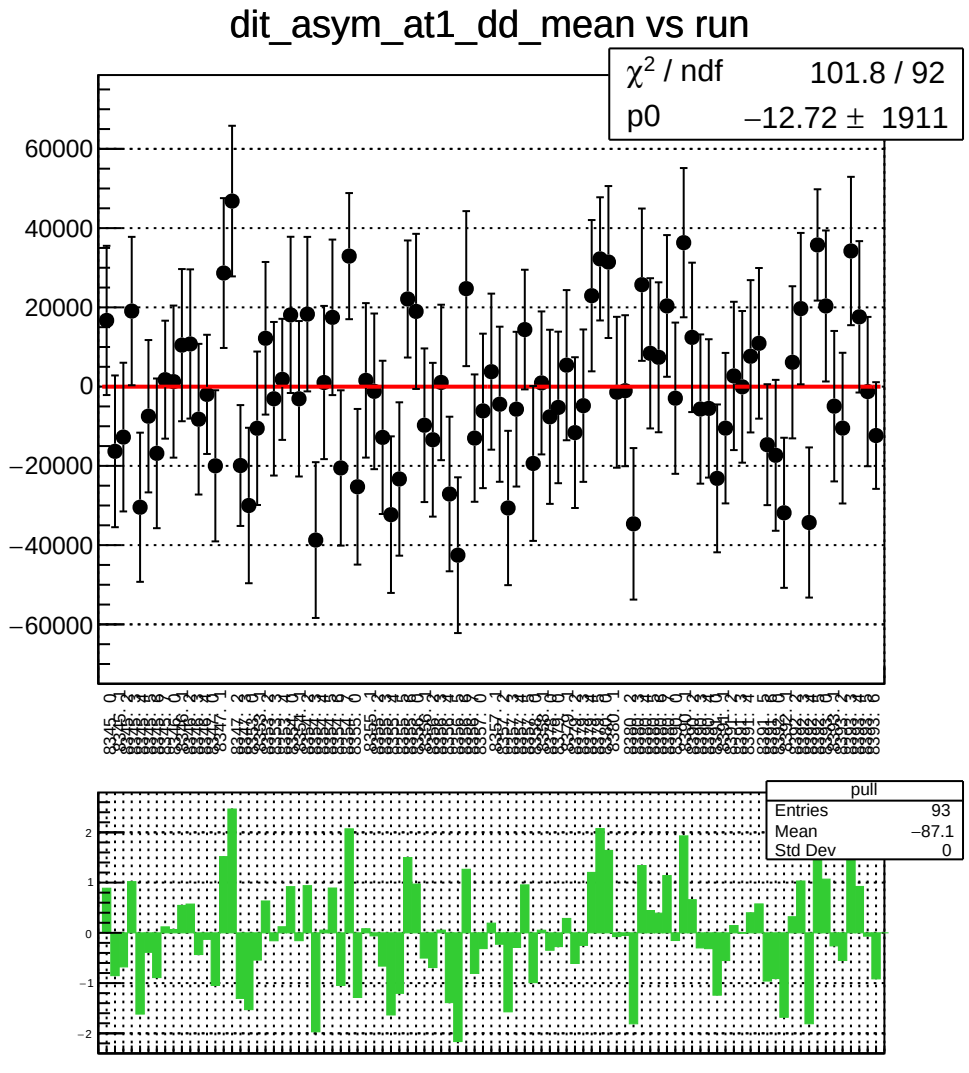

eigen_cor_asym_at1_dd_mean vs run
χ² / ndf 101.9 / 92
p0 77.66 ± 1910
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −86.92
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.01969
Std Dev 1.047
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

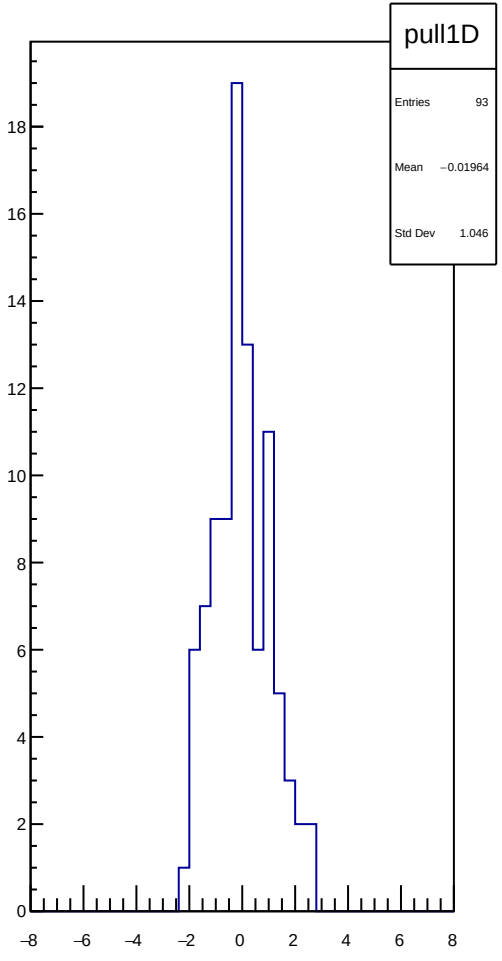

eigen_cor_asym_at1_dd_rms vs run
χ² / ndf 488.9 / 92
p0 1821 ± 1.351
1900
1880
1860
1840
1820
1800
1780
1760

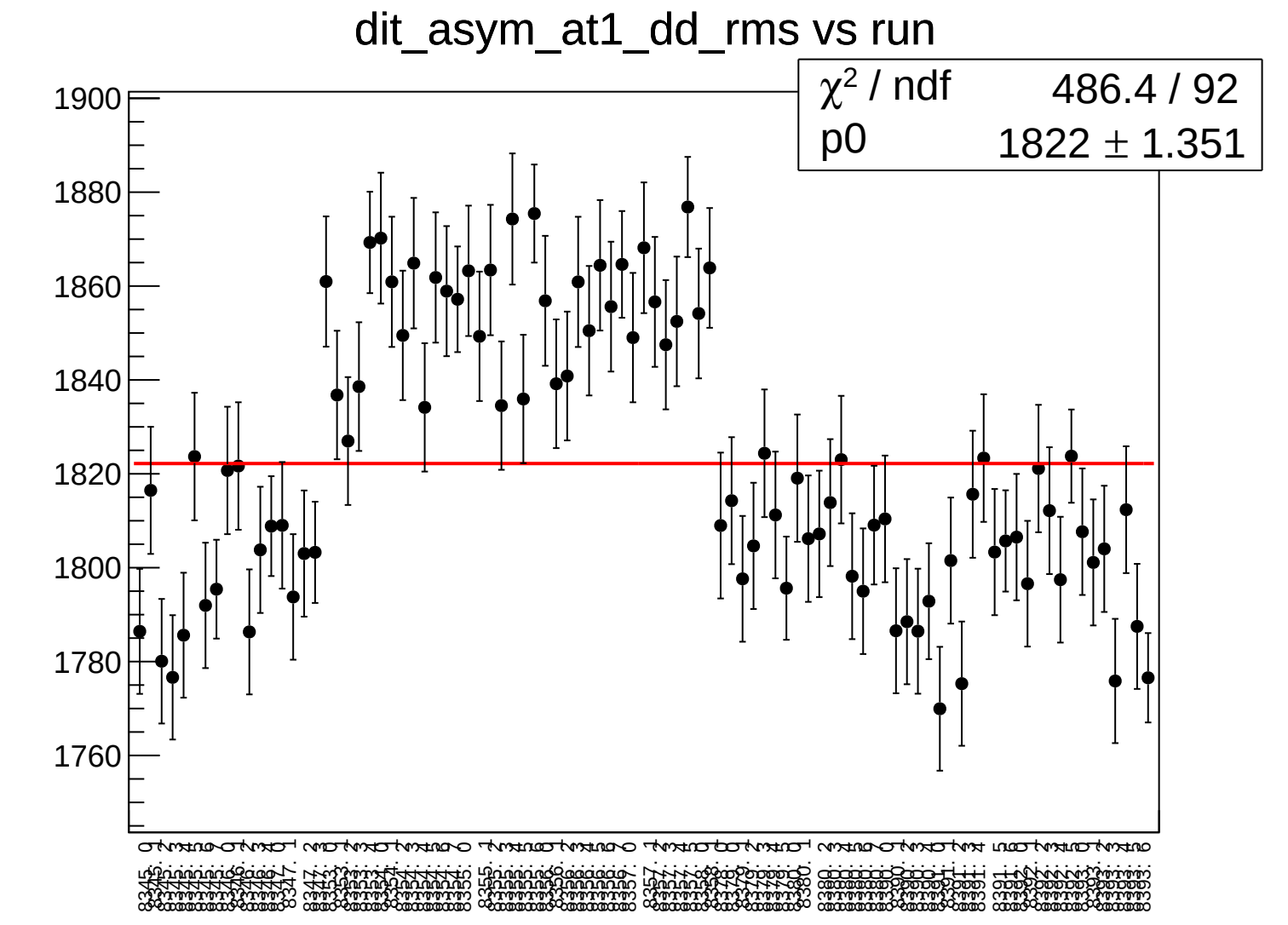

asym_at1_dd_eigen_cor_correction_mean vs run
χ² / ndf 81.7 / 92
p0 1258 ± 618.5
20000
10000
0
−10000
−20000
pull
Entries 93
Mean 0.9037
Std Dev 0
2
1
0
−1
−2

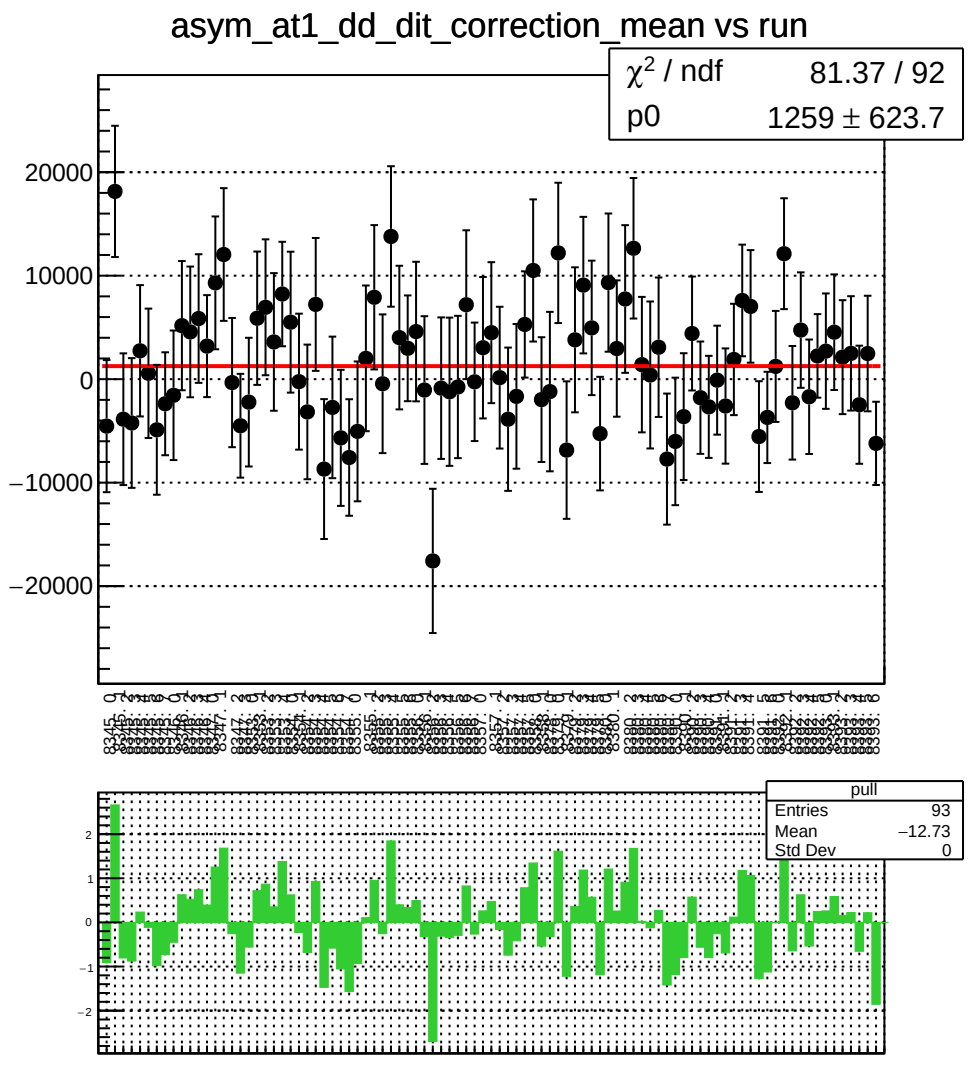

pull1D
Entries 93
Mean 0.02756
Std Dev 0.9369
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

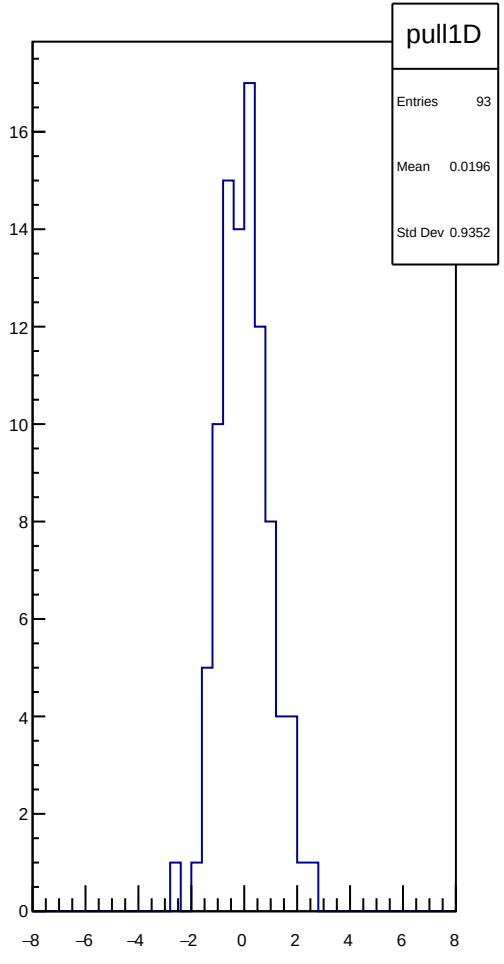

asym_at1_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.988e+04 / 92
p0 586.6 ± 0.4373
750
700
650
600
550
500
450

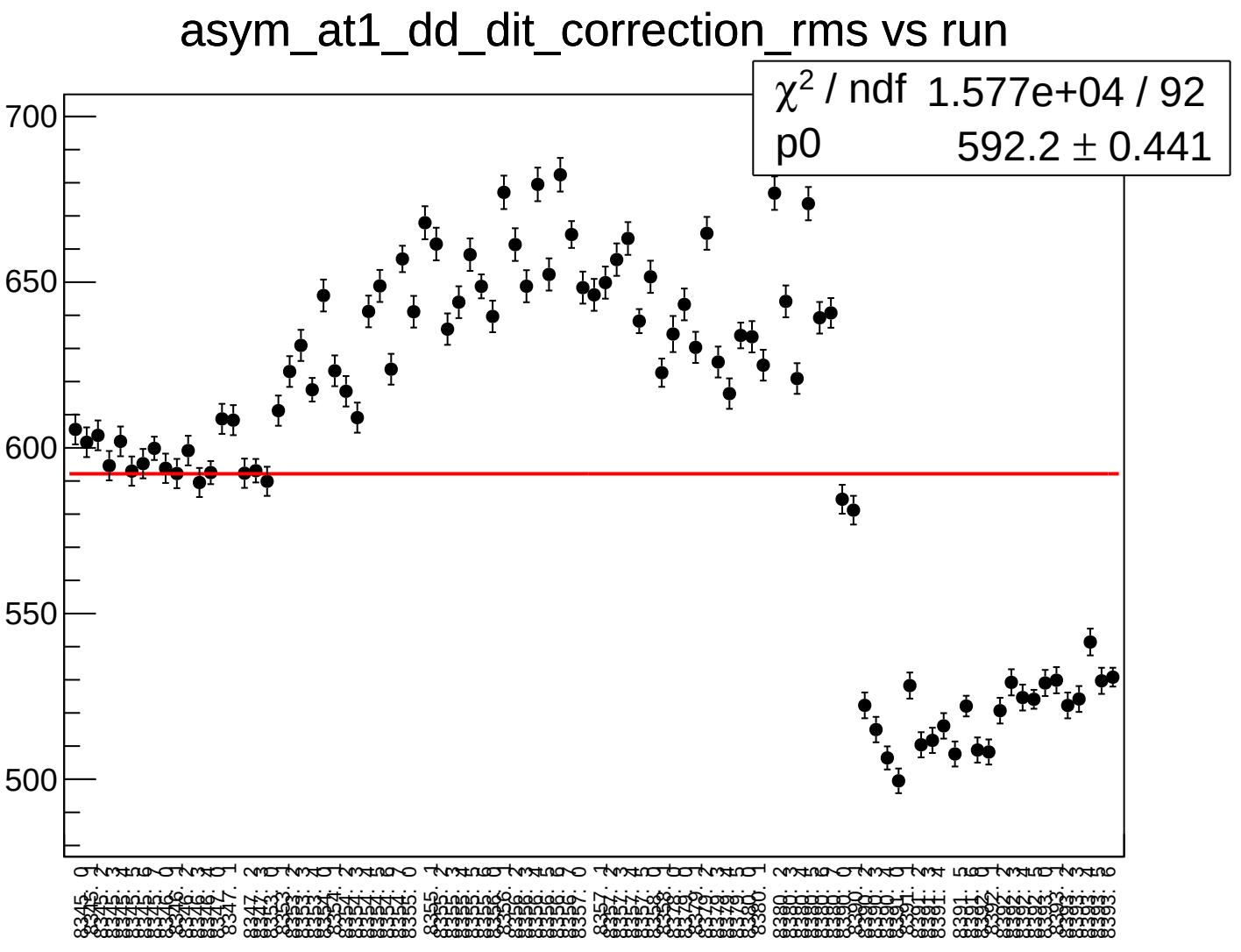

dit_asym_at1_dd_mean vs run
χ² / ndf 101.8 / 92
p0 −12.72 ± 1911
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −87.1
Std Dev 0
2
1
0
−1
−2

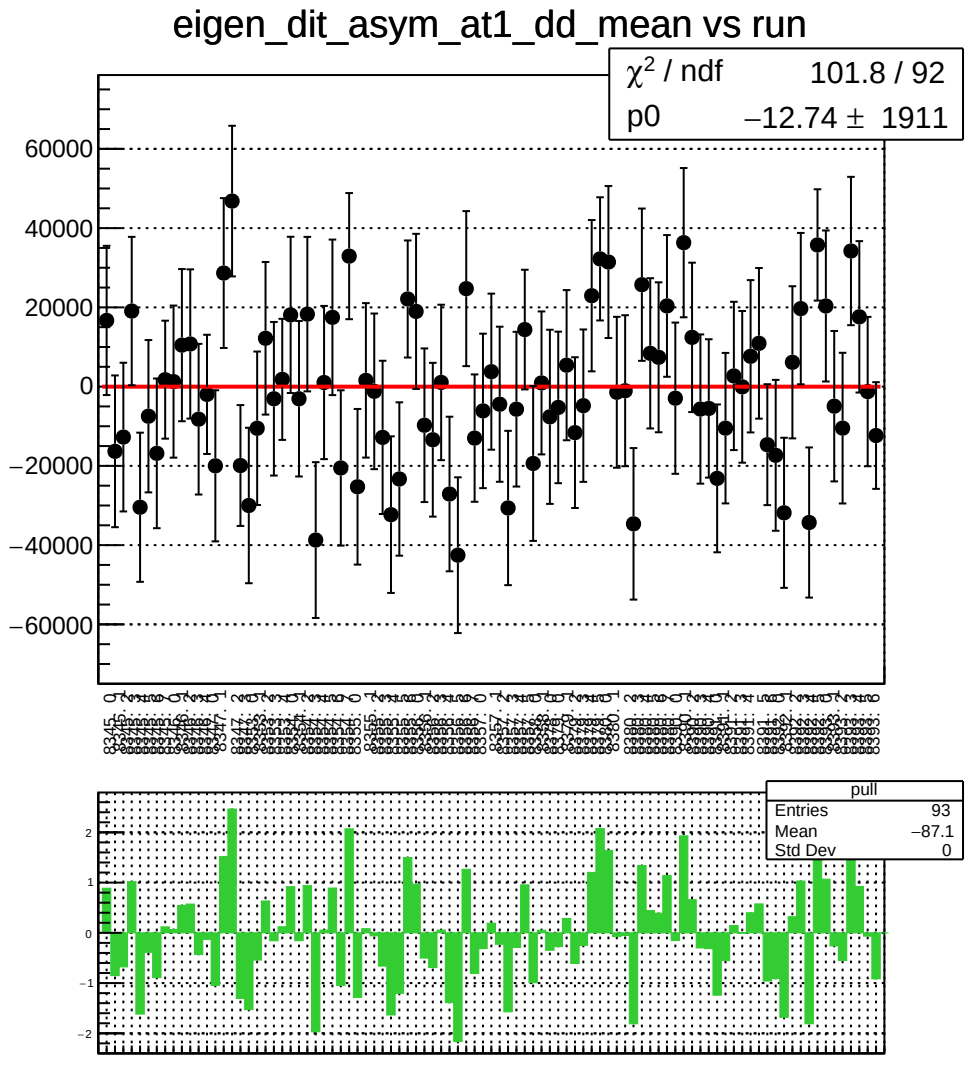

pull1D
Entries 93
Mean −0.01964
Std Dev 1.046
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

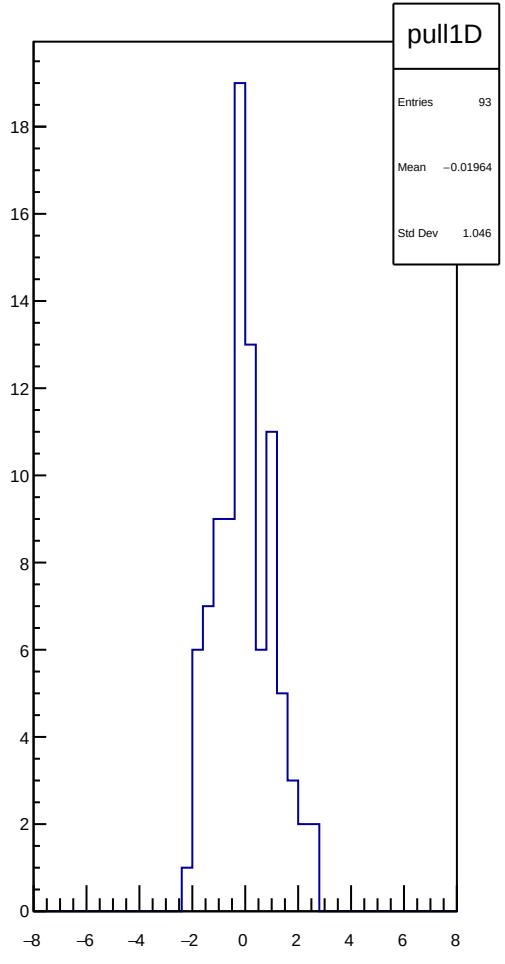

dit_asym_at1_dd_rms vs run
χ² / ndf 486.4 / 92
p0 1822 ± 1.351
1900
1880
1860
1840
1820
1800
1780
1760

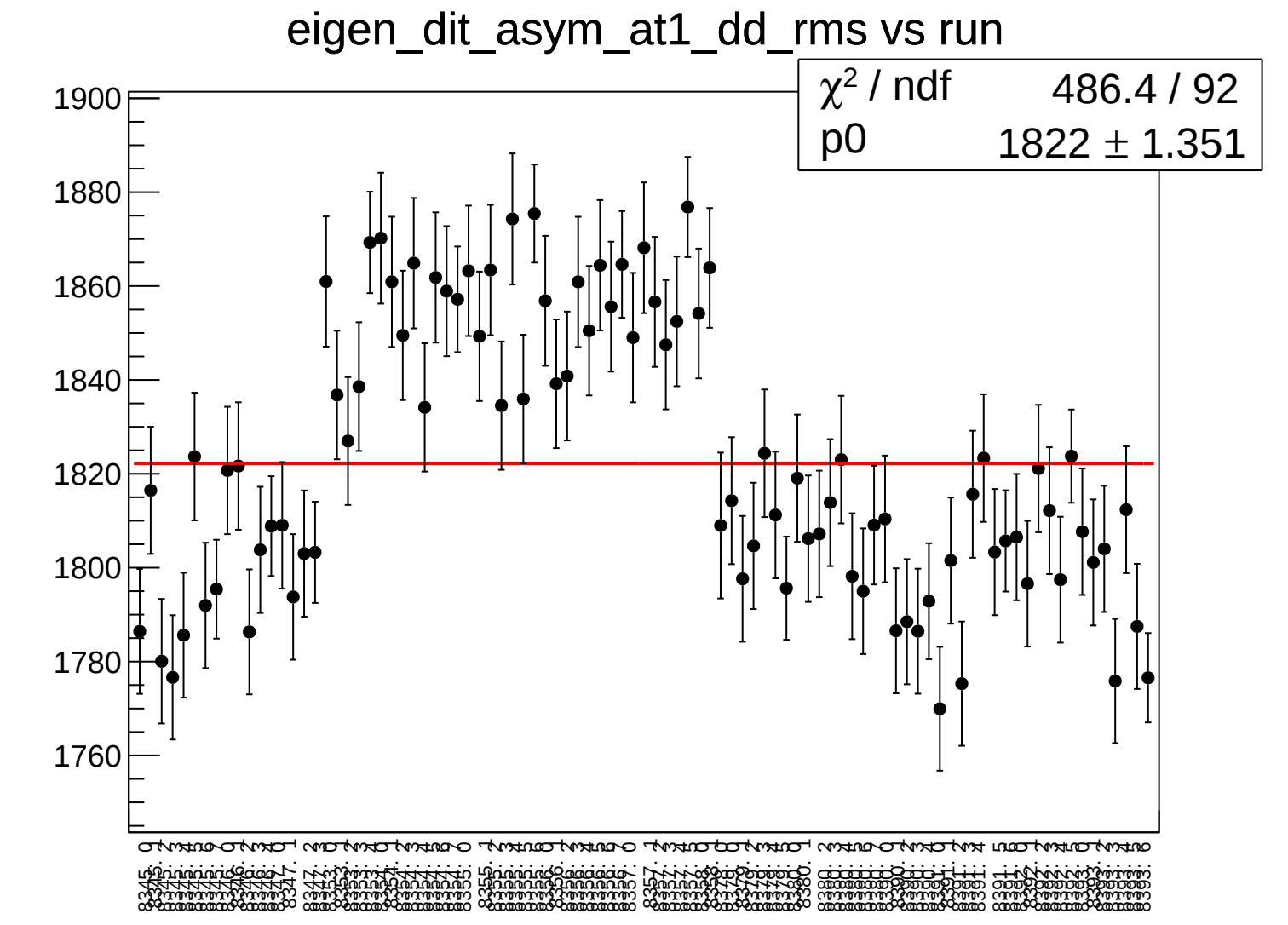

asym_at1_dd_dit_correction_mean vs run
χ² / ndf 81.37 / 92
p0 1259 ± 623.7
20000
10000
0
−10000
−20000
pull
Entries 93
Mean −12.73
Std Dev 0
2
1
0
−1
−2

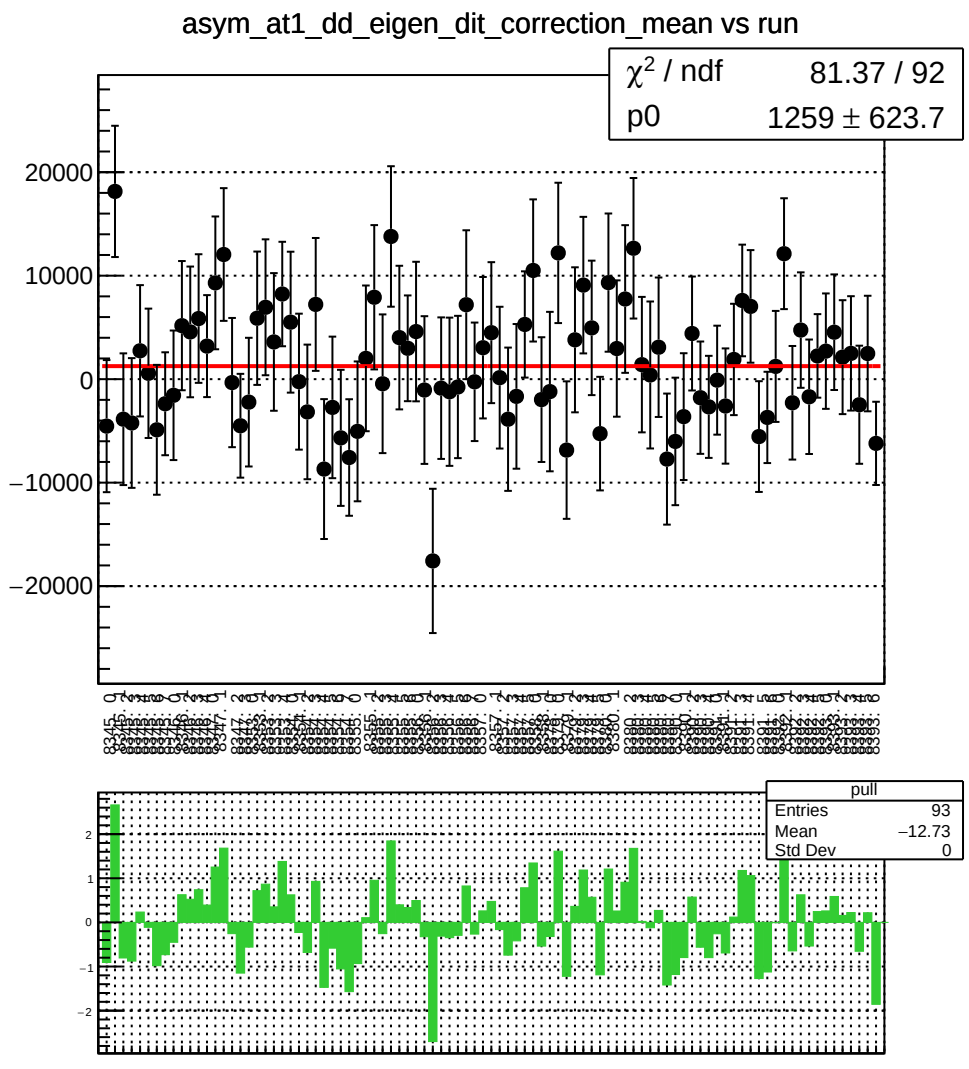

pull1D
Entries 93
Mean 0.0196
Std Dev 0.9352
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

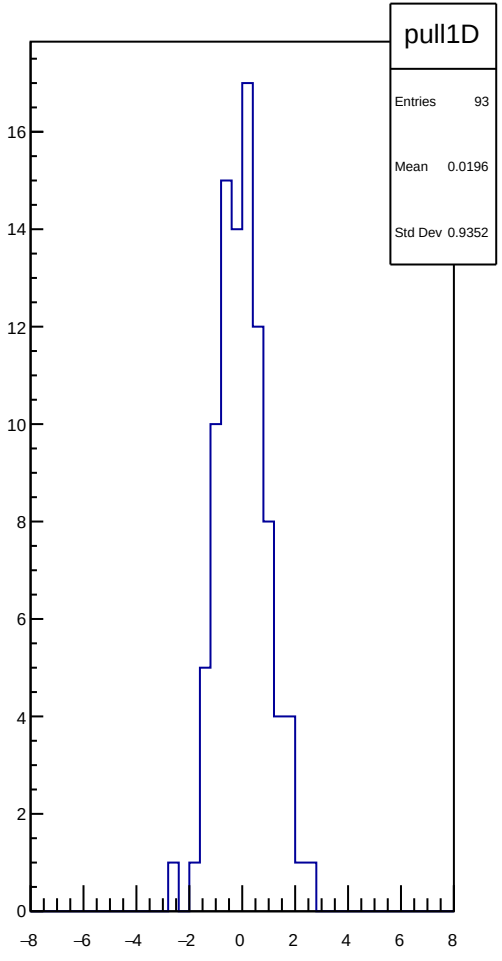

asym_at1_dd_dit_correction_rms vs run
χ² / ndf 1.577e+04 / 92
p0 592.2 ± 0.441
700
650
600
550
500

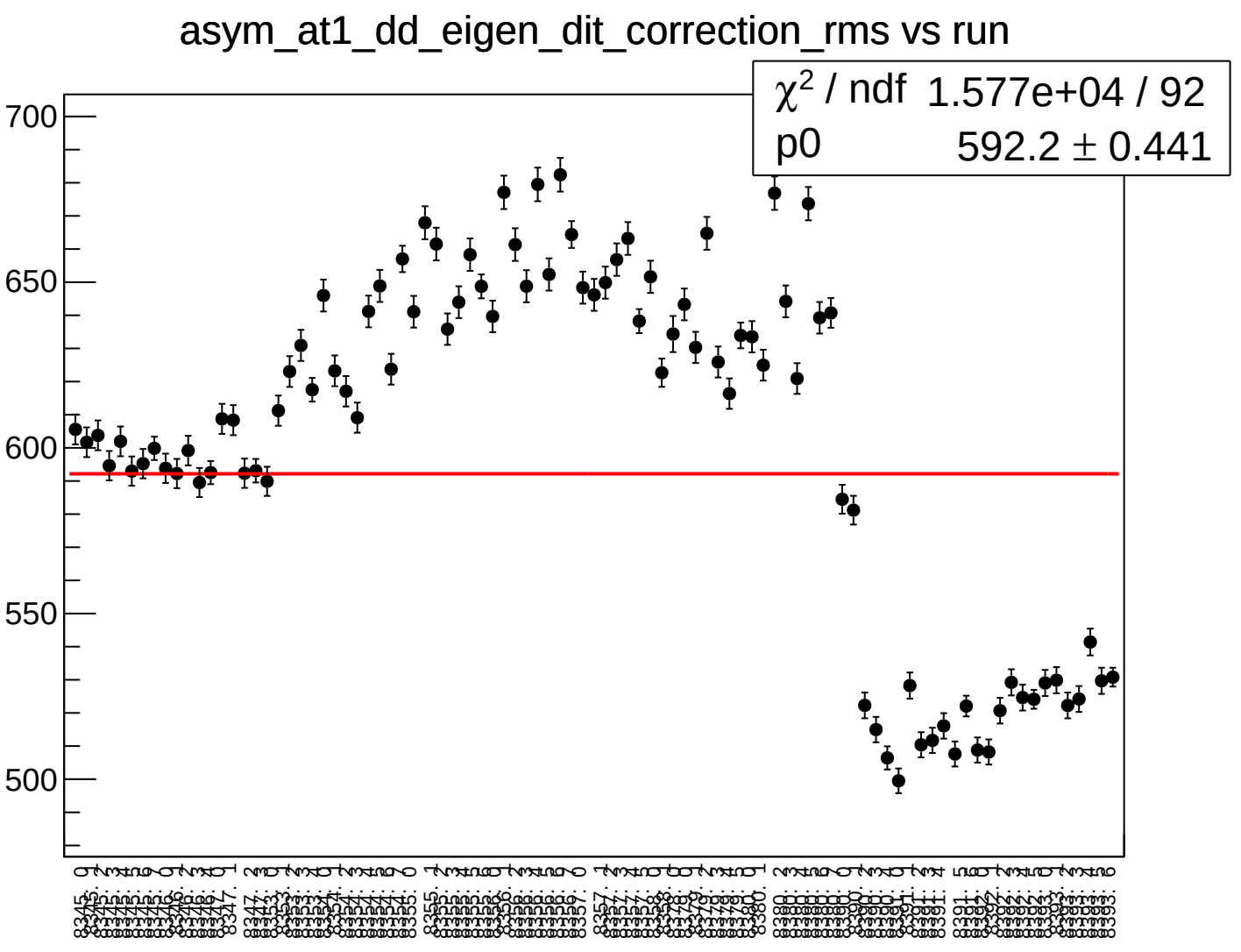

eigen_dit_asym_at1_dd_mean vs run
χ² / ndf 101.8 / 92
p0 −12.74 ± 1911
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −87.1
Std Dev 0
2
1
0
−1
−2

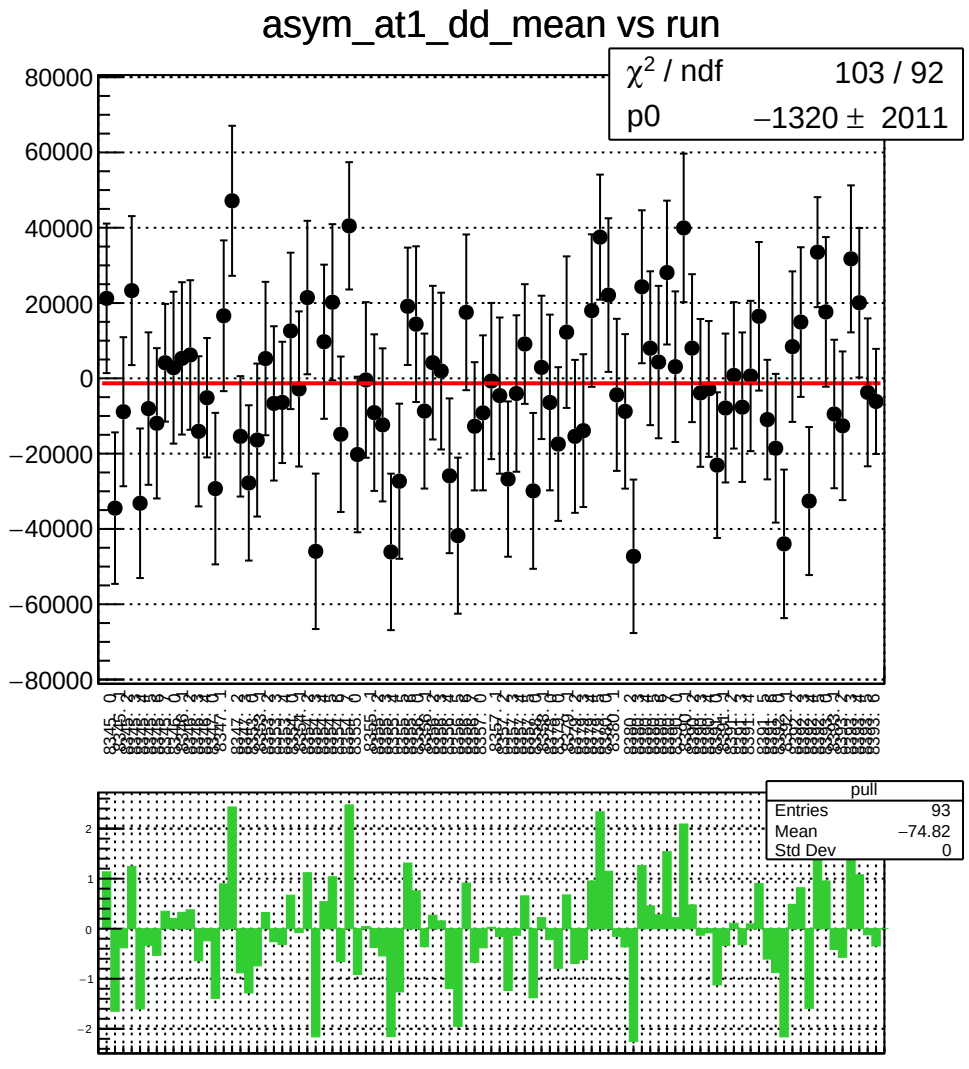

pull1D
Entries 93
Mean −0.01964
Std Dev 1.046
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

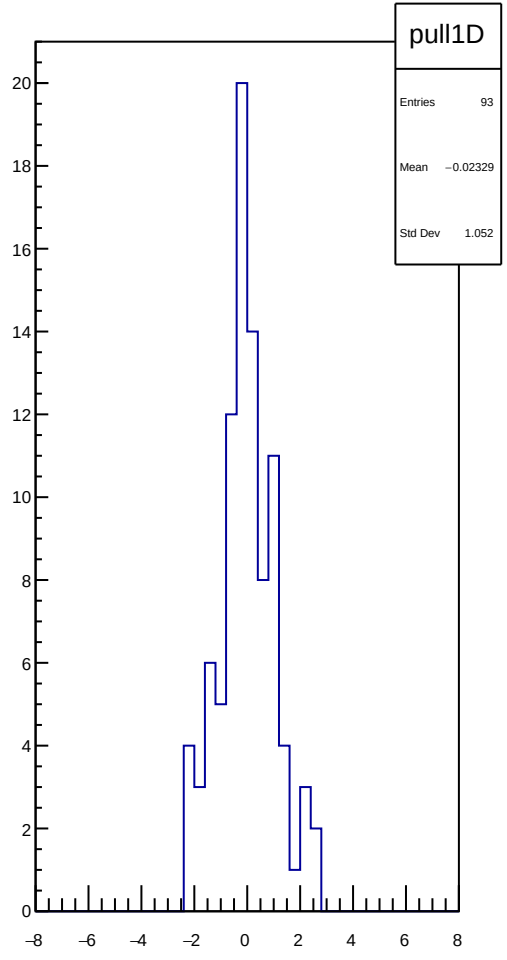

eigen_dit_asym_at1_dd_rms vs run
χ² / ndf 486.4 / 92
p0 1822 ± 1.351
1900
1880
1860
1840
1820
1800
1780
1760

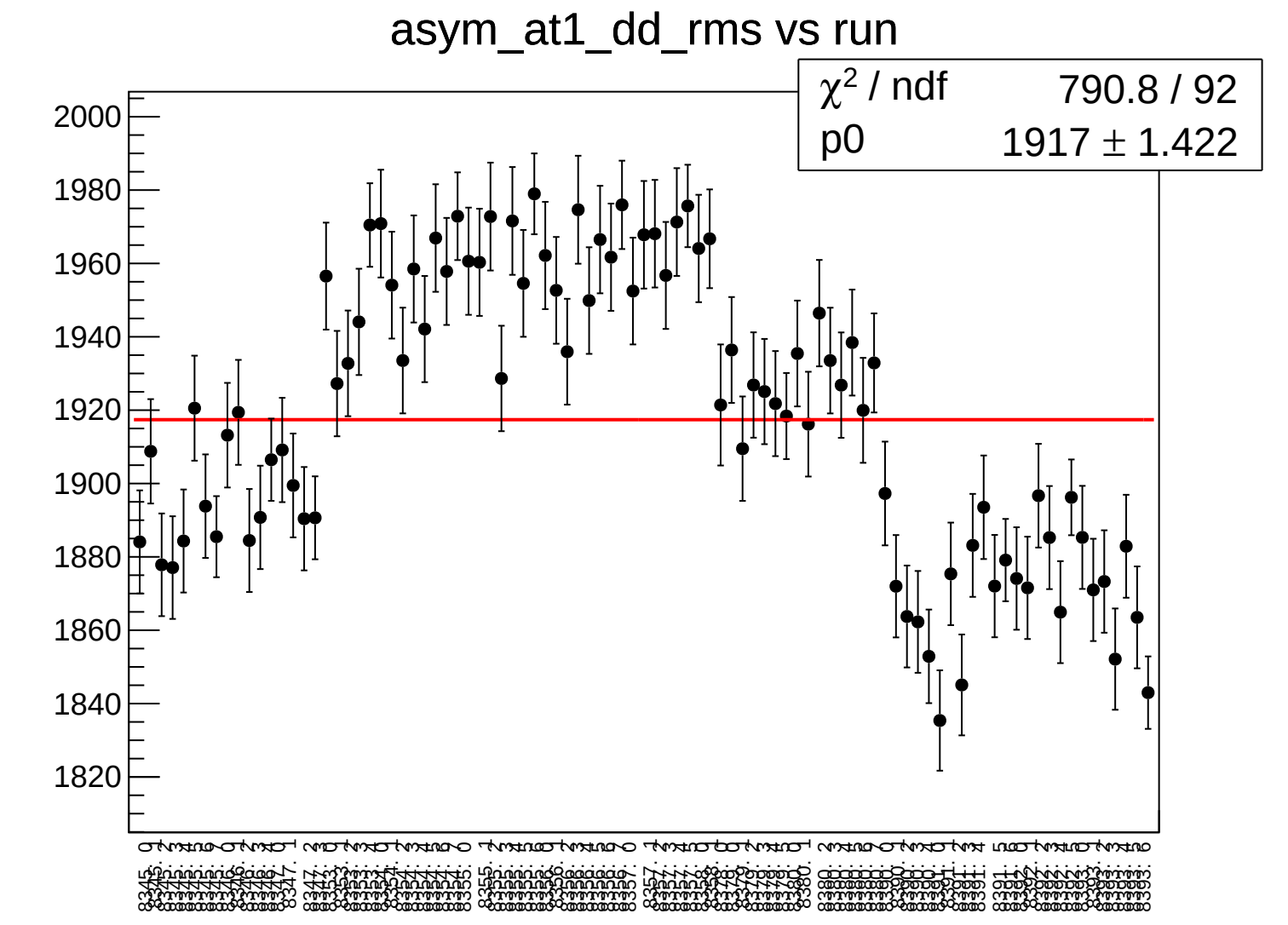

asym_at1_dd_eigen_dit_correction_mean vs run
χ² / ndf 81.37 / 92
p0 1259 ± 623.7
20000
10000
0
−10000
−20000
pull
Entries 93
Mean −12.73
Std Dev 0
2
1
0
−1
−2

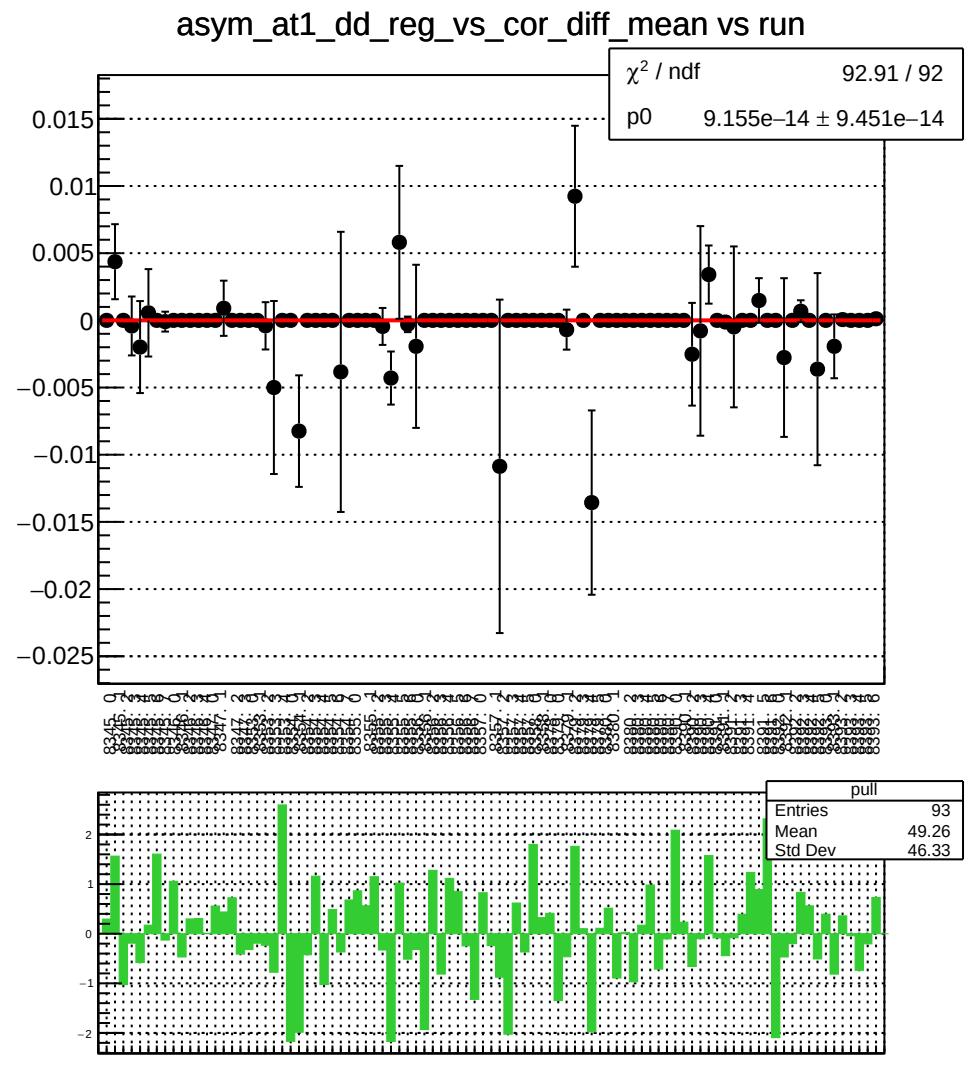

pull1D
Entries 93
Mean 0.0196
Std Dev 0.9352
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

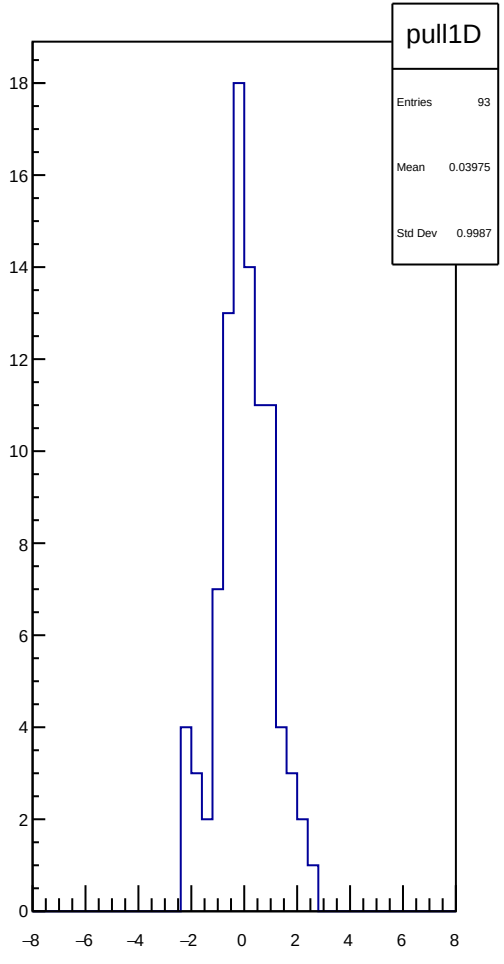

asym_at1_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.577e+04 / 92
p0 592.2 ± 0.441
700
650
600
550
500

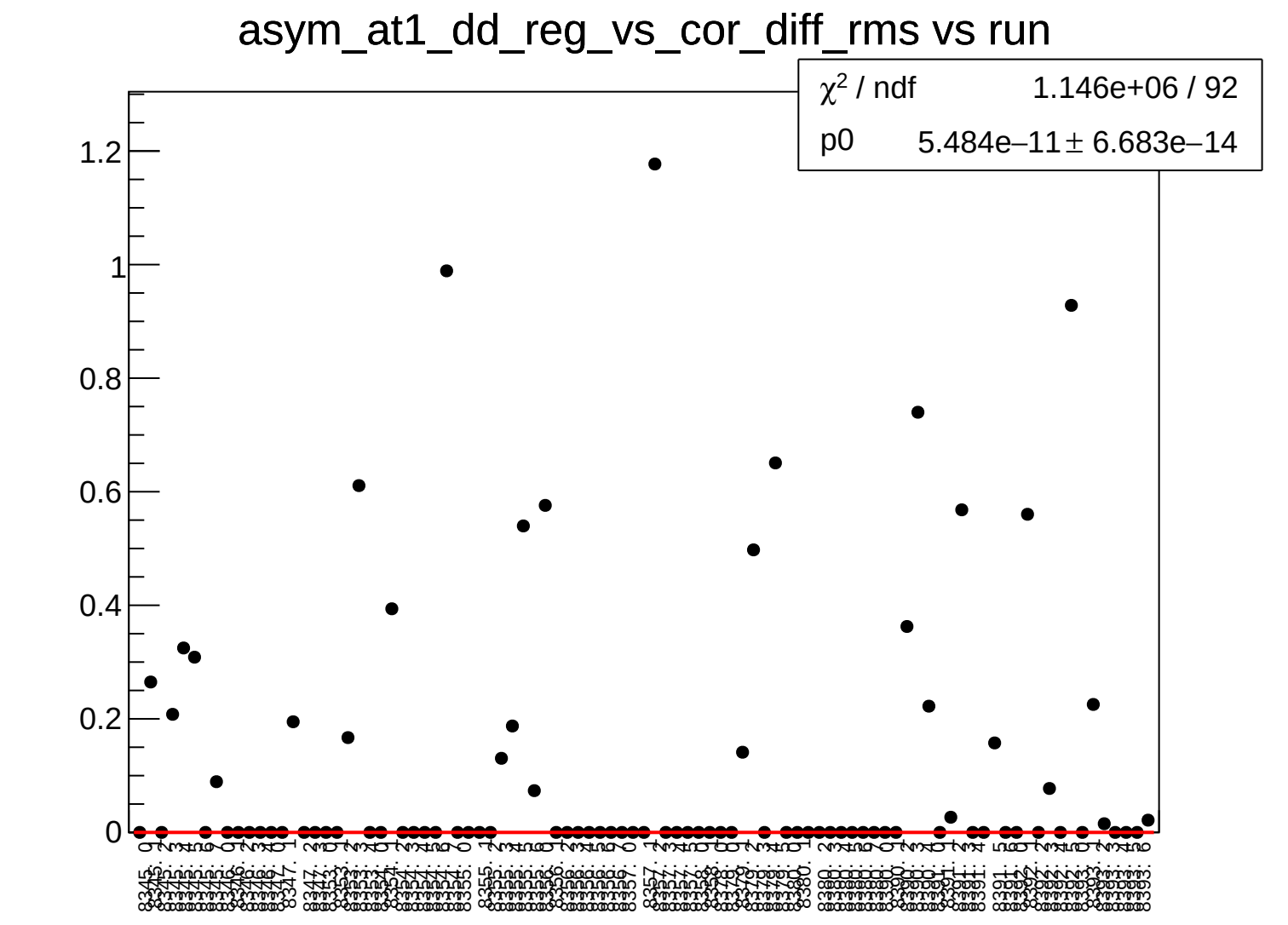

asym_at1_dd_mean vs run
χ² / ndf 103 / 92
p0 −1320 ± 2011
pull
Entries 93
Mean −74.82
Std Dev 0

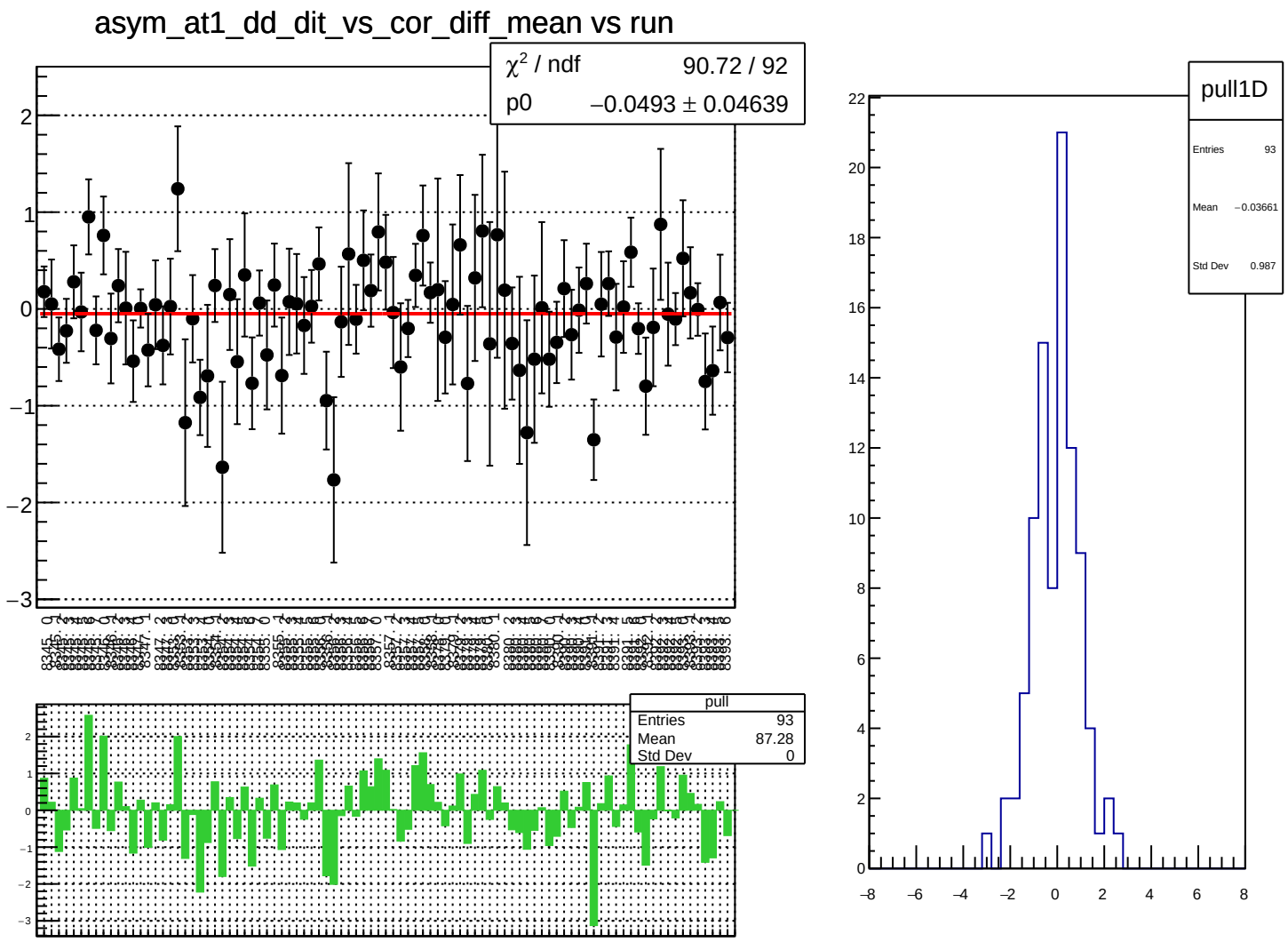

pull1D
Entries 93
Mean −0.02329
Std Dev 1.052

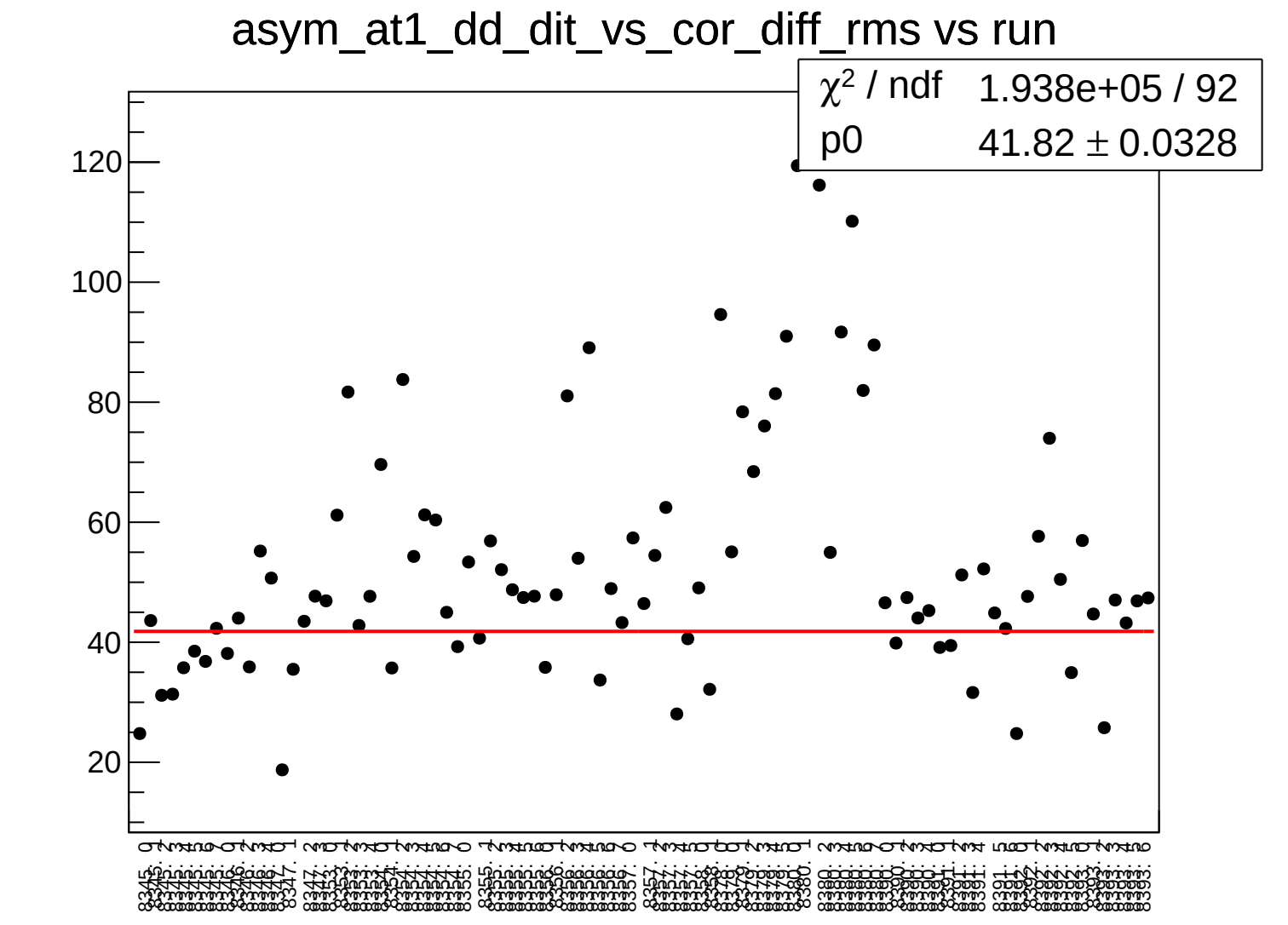

asym_at1_dd_rms vs run
χ² / ndf 790.8 / 92
p0 1917 ± 1.422
2000
1980
1960
1940
1920
1900
1880
1860
1840
1820

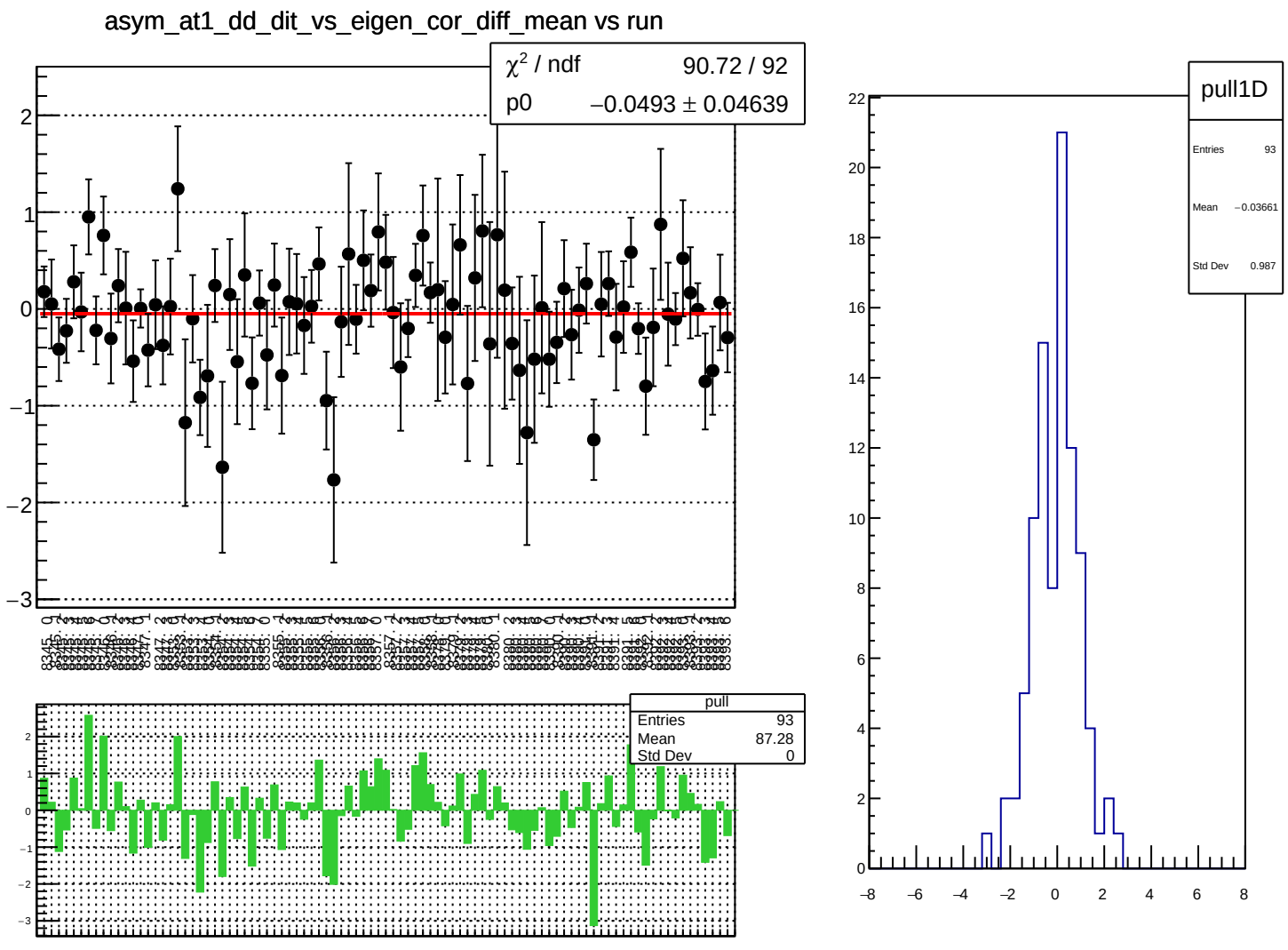

asym_at1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 92.91 / 92
p0 9.155e−14 ± 9.451e−14
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
−0.025
pull
Entries 93
Mean 49.26
Std Dev 46.33
2
1
0
−1
−2

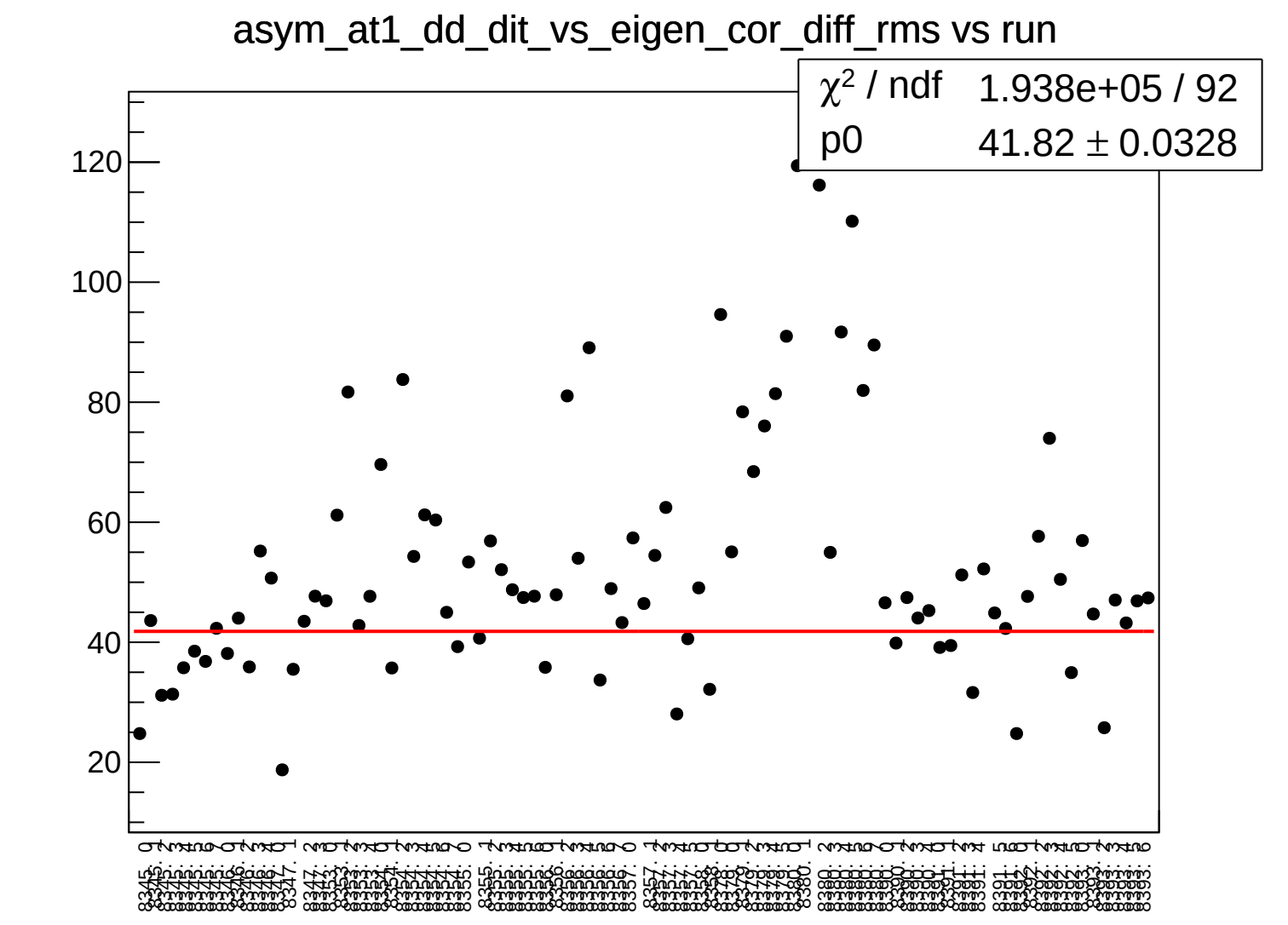

pull1D
Entries 93
Mean 0.03975
Std Dev 0.9987
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

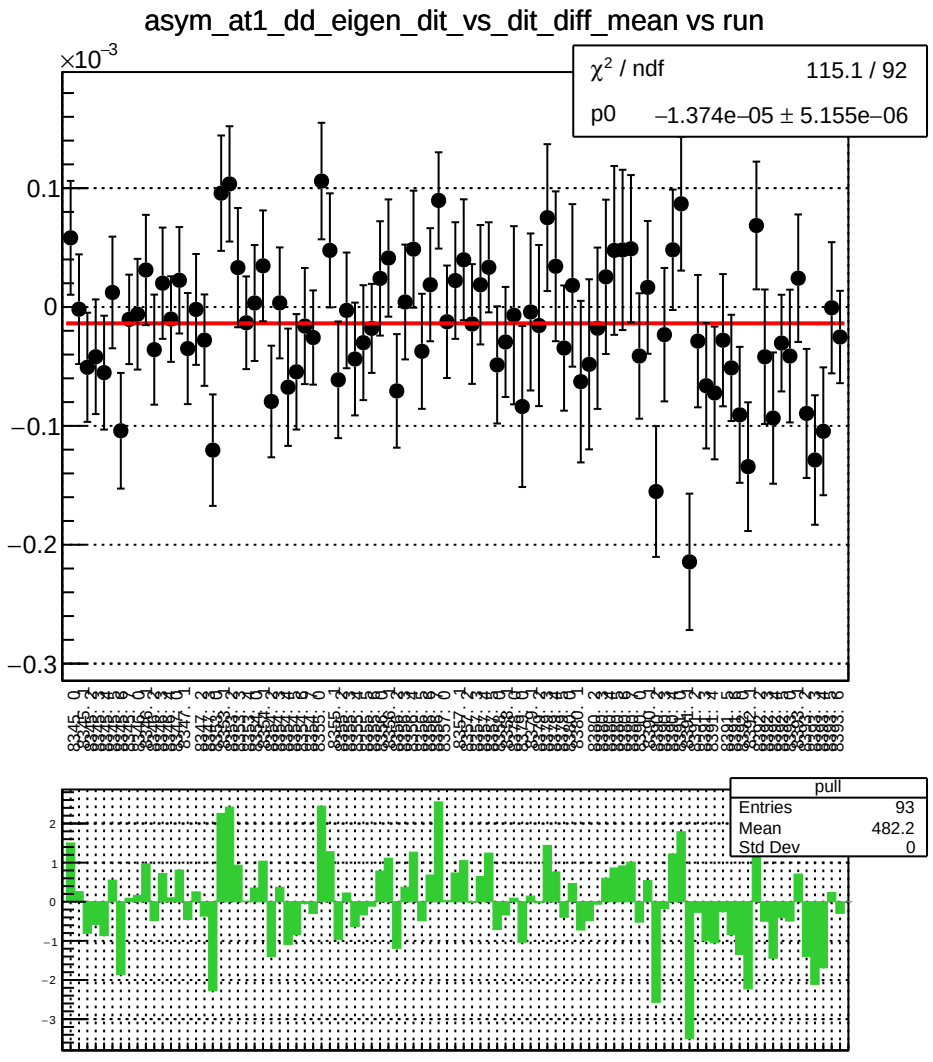

asym_at1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.146e+06 / 92
p0 5.484e−11 ± 6.683e−14
1.2
1
0.8
0.6
0.4
0.2
0

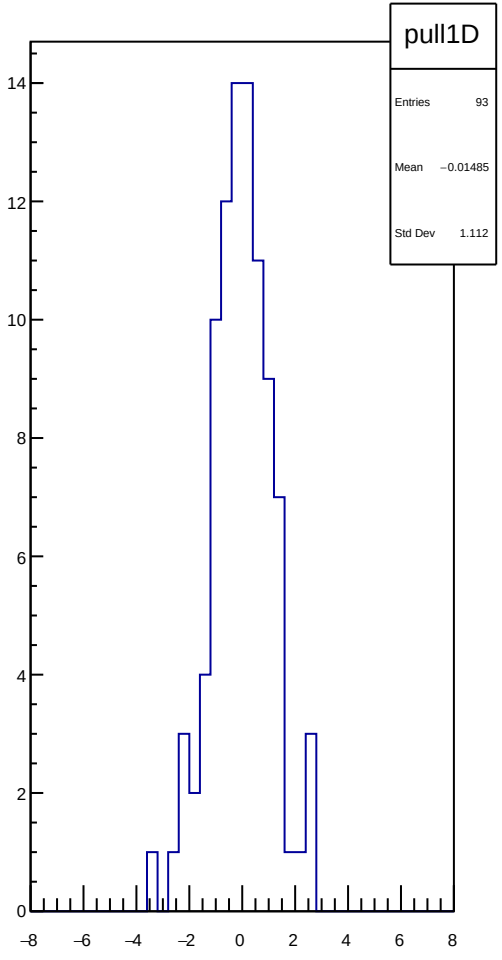

asym_at1_dd_dit_vs_cor_diff_mean vs run
χ^2 / ndf 90.72 / 92
p0 −0.0493 ± 0.04639
pull
Entries 93
Mean 87.28
Std Dev 0
pull1D
Entries 93
Mean −0.03661
Std Dev 0.987

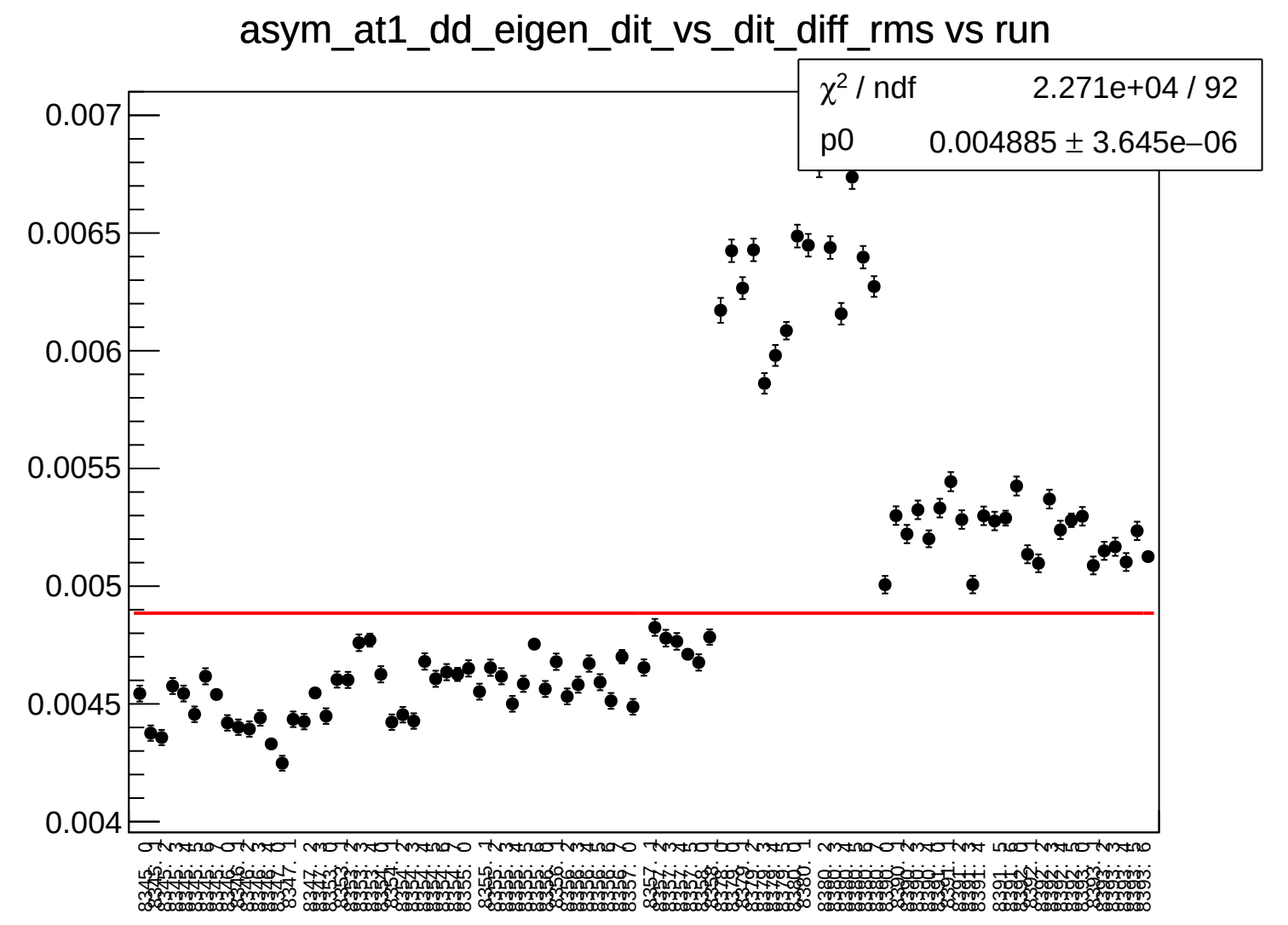

asym_at1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.938e+05 / 92
p0 41.82 ± 0.0328
120
100
80
60
40
20

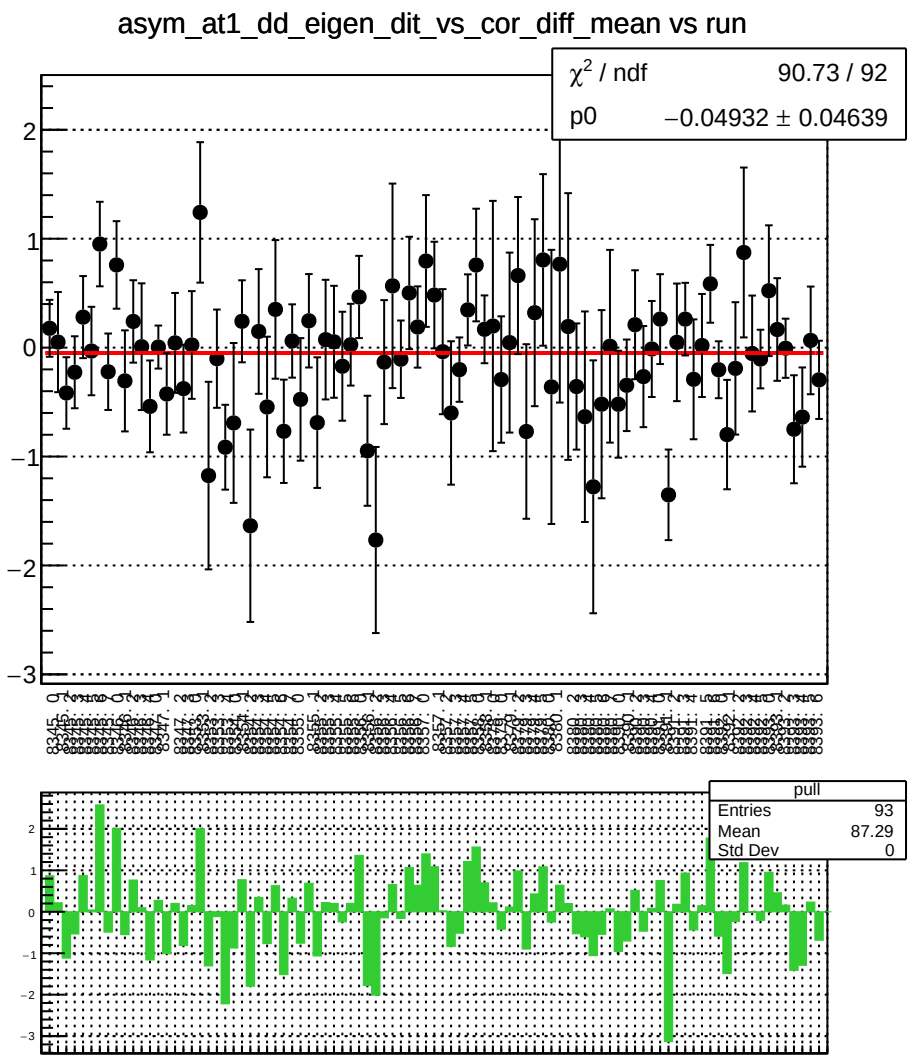

asym_at1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.72 / 92
p0 −0.0493 ± 0.04639
pull
Entries 93
Mean 87.28
Std Dev 0
pull1D
Entries 93
Mean −0.03661
Std Dev 0.987

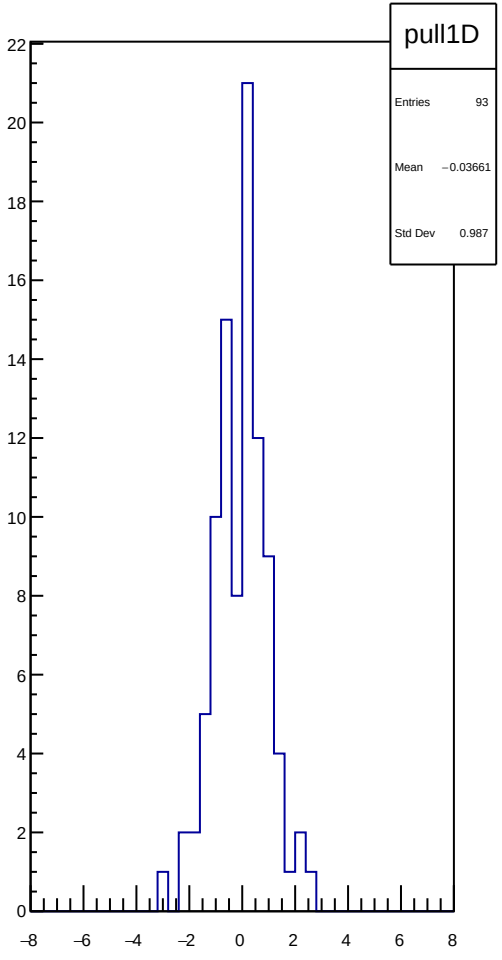

asym_at1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.938e+05 / 92
p0 41.82 ± 0.0328
120
100
80
60
40
20

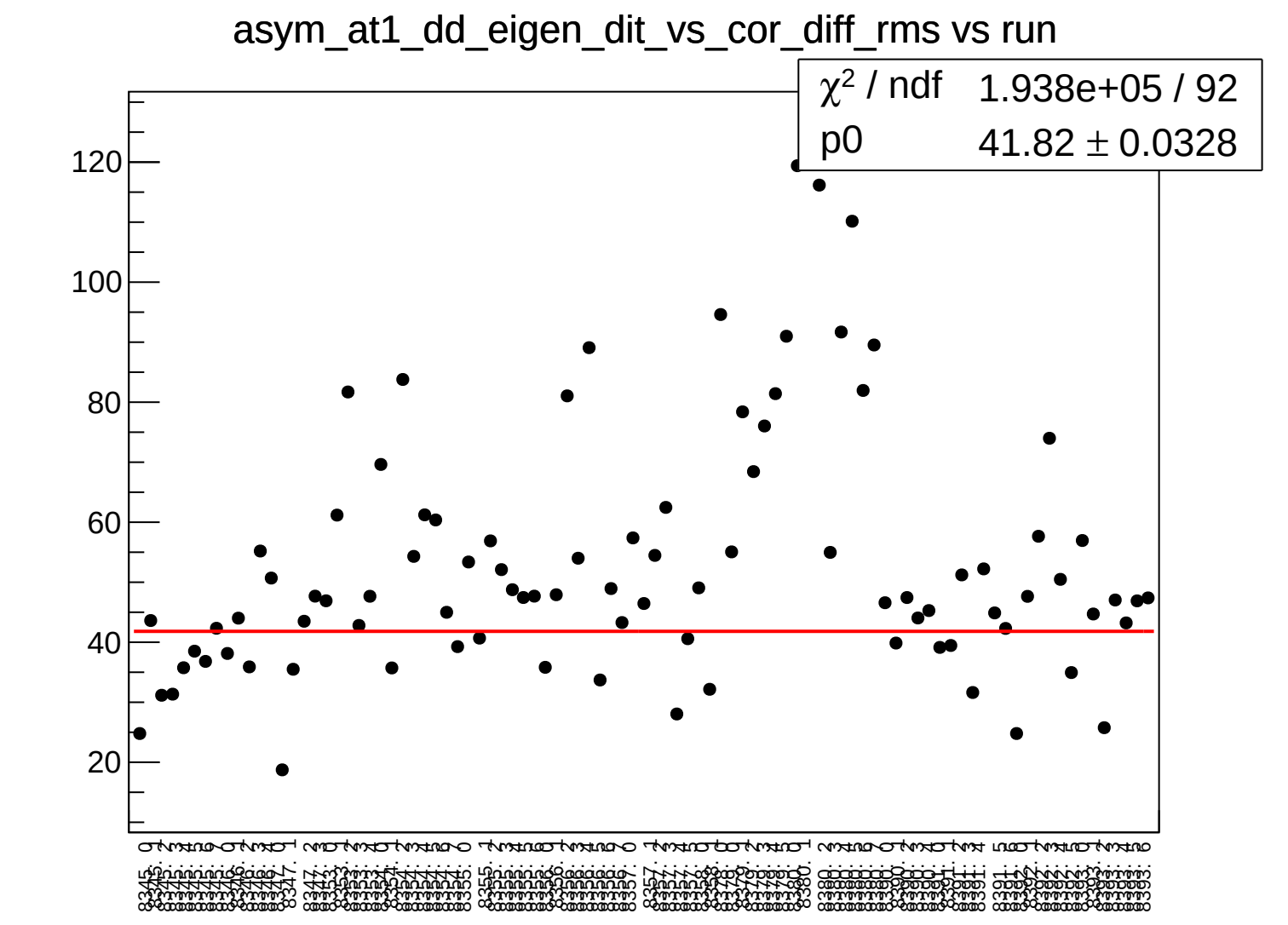

asym_at1_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 115.1 / 92
p0 −1.374e−05 ± 5.155e−06
0.1
0
−0.1
−0.2
−0.3
pull
Entries 93
Mean 482.2
Std Dev 0
2
1
0
−1
−2
−3

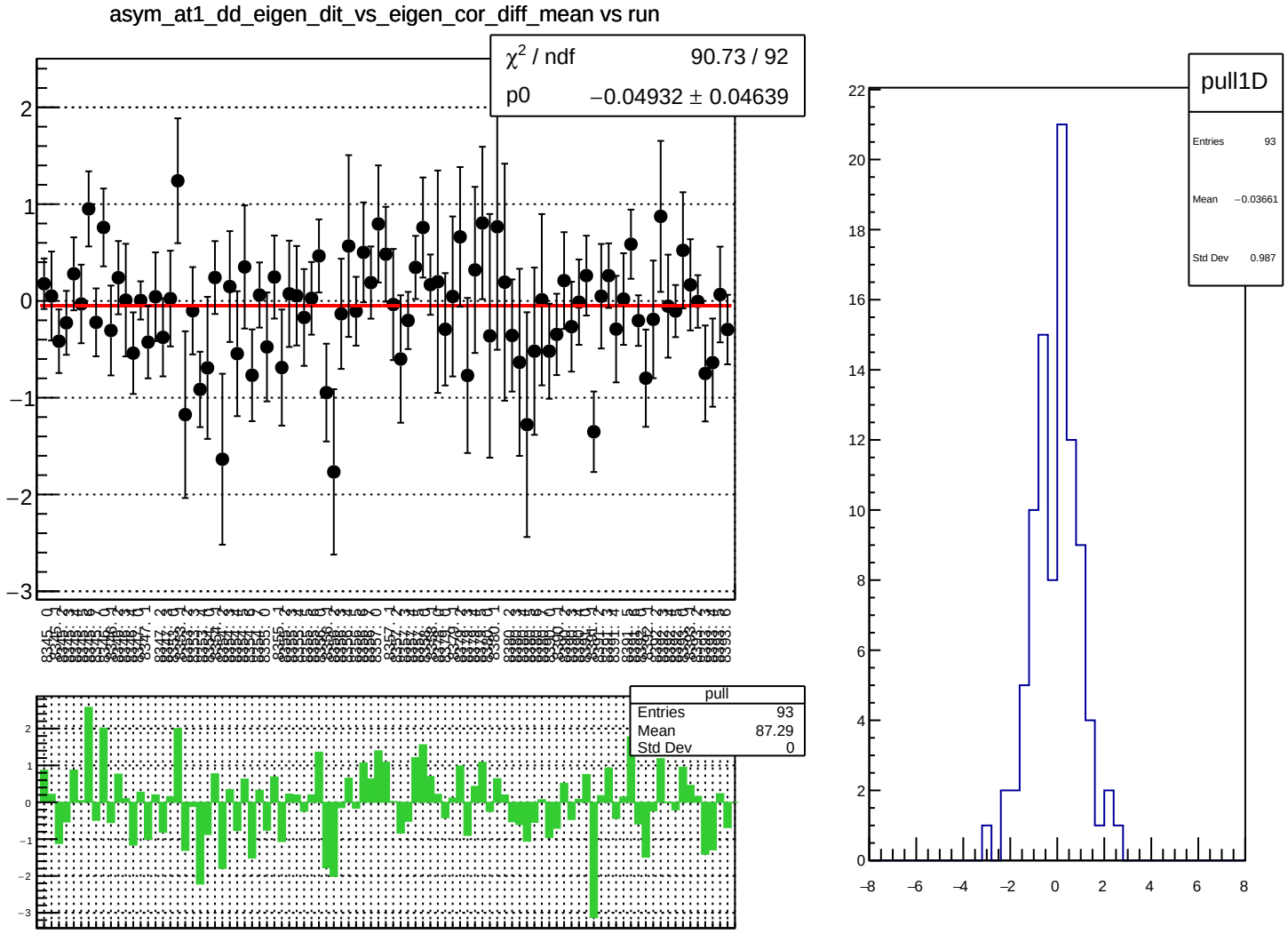

pull1D
Entries 93
Mean −0.01485
Std Dev 1.112
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

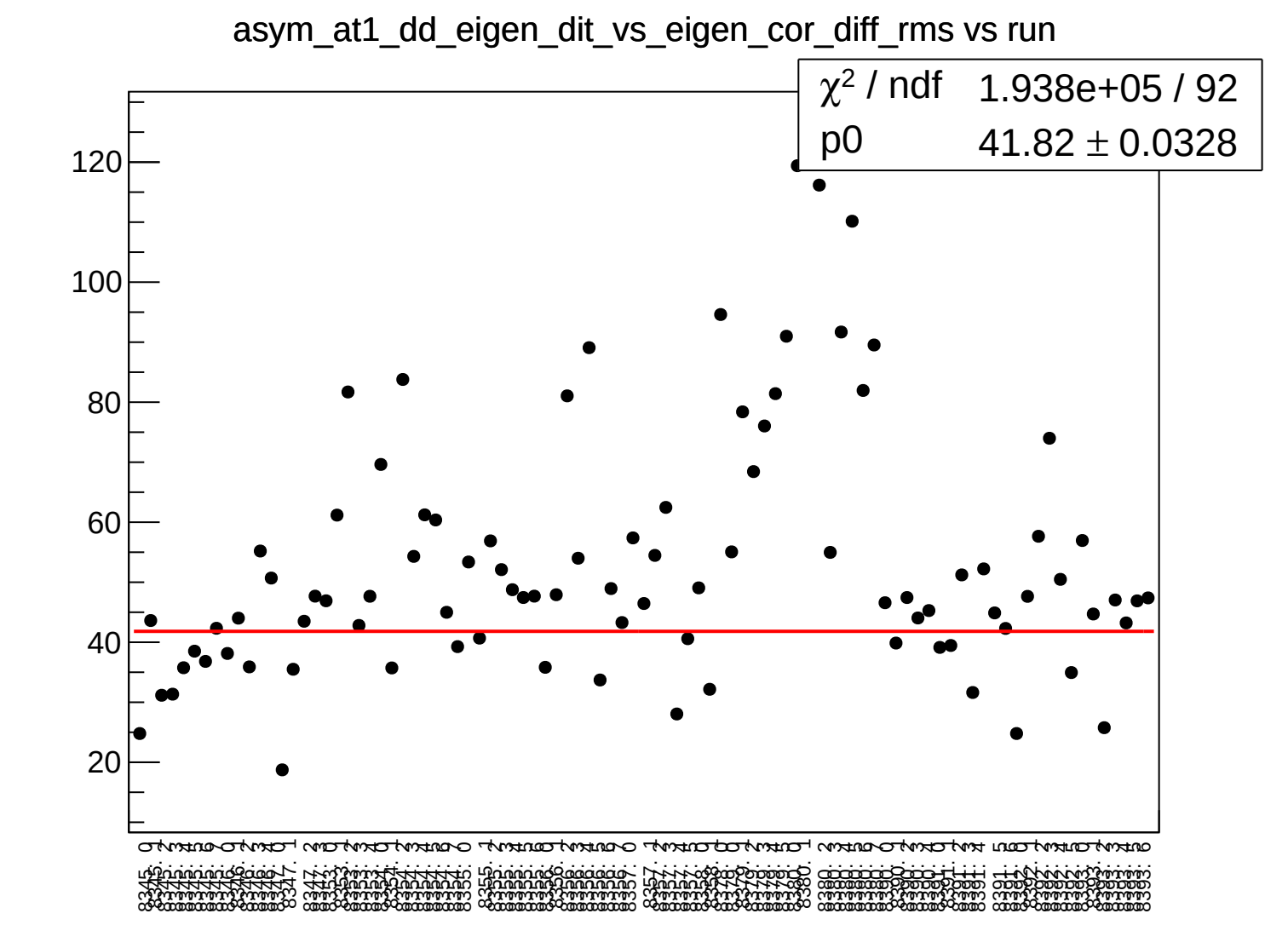

asym_at1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.271e+04 / 92
p0 0.004885 ± 3.645e−06
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004

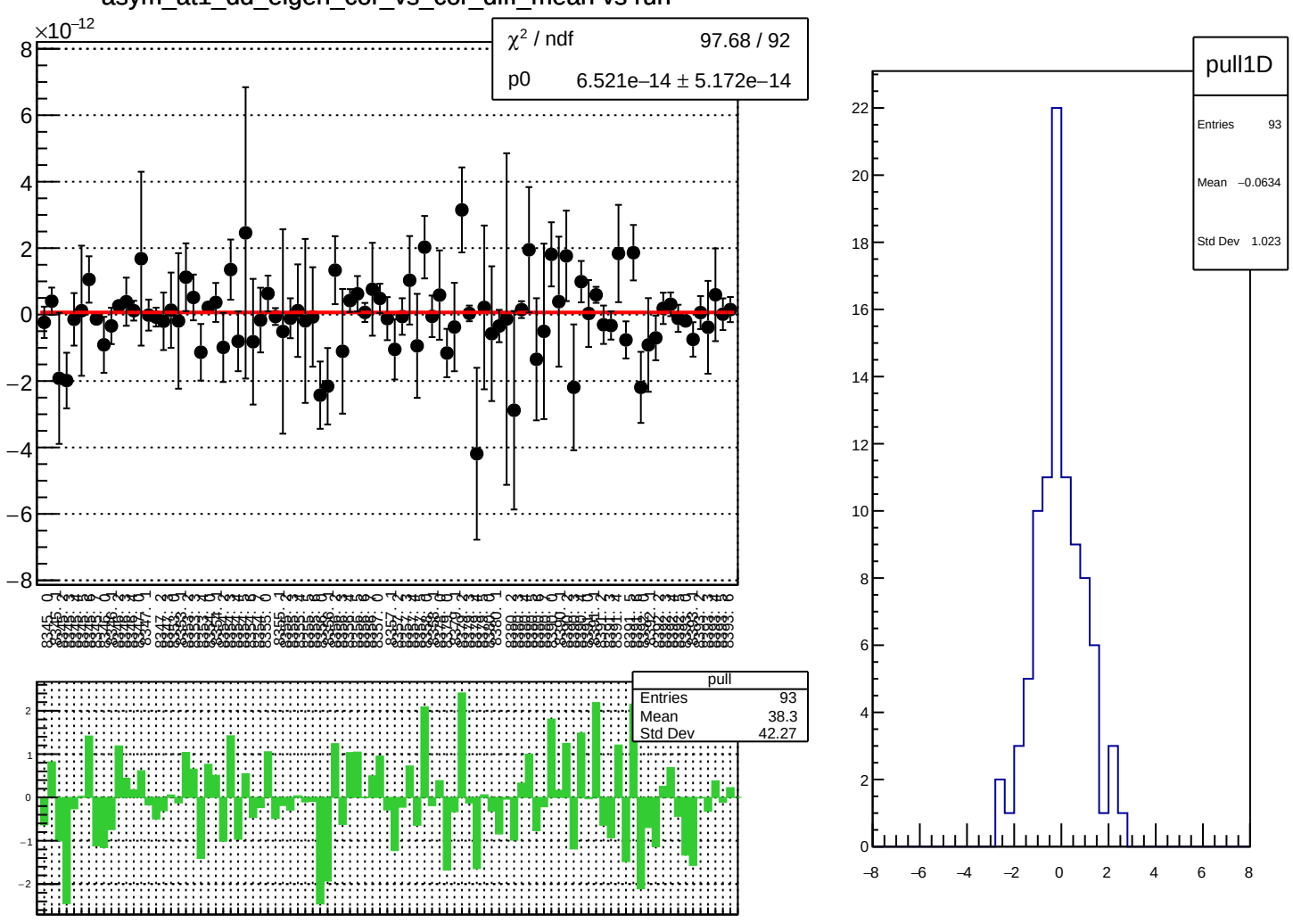

asym_at1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.73 / 92
p0 −0.04932 ± 0.04639
pull
Entries 93
Mean 87.29
Std Dev 0

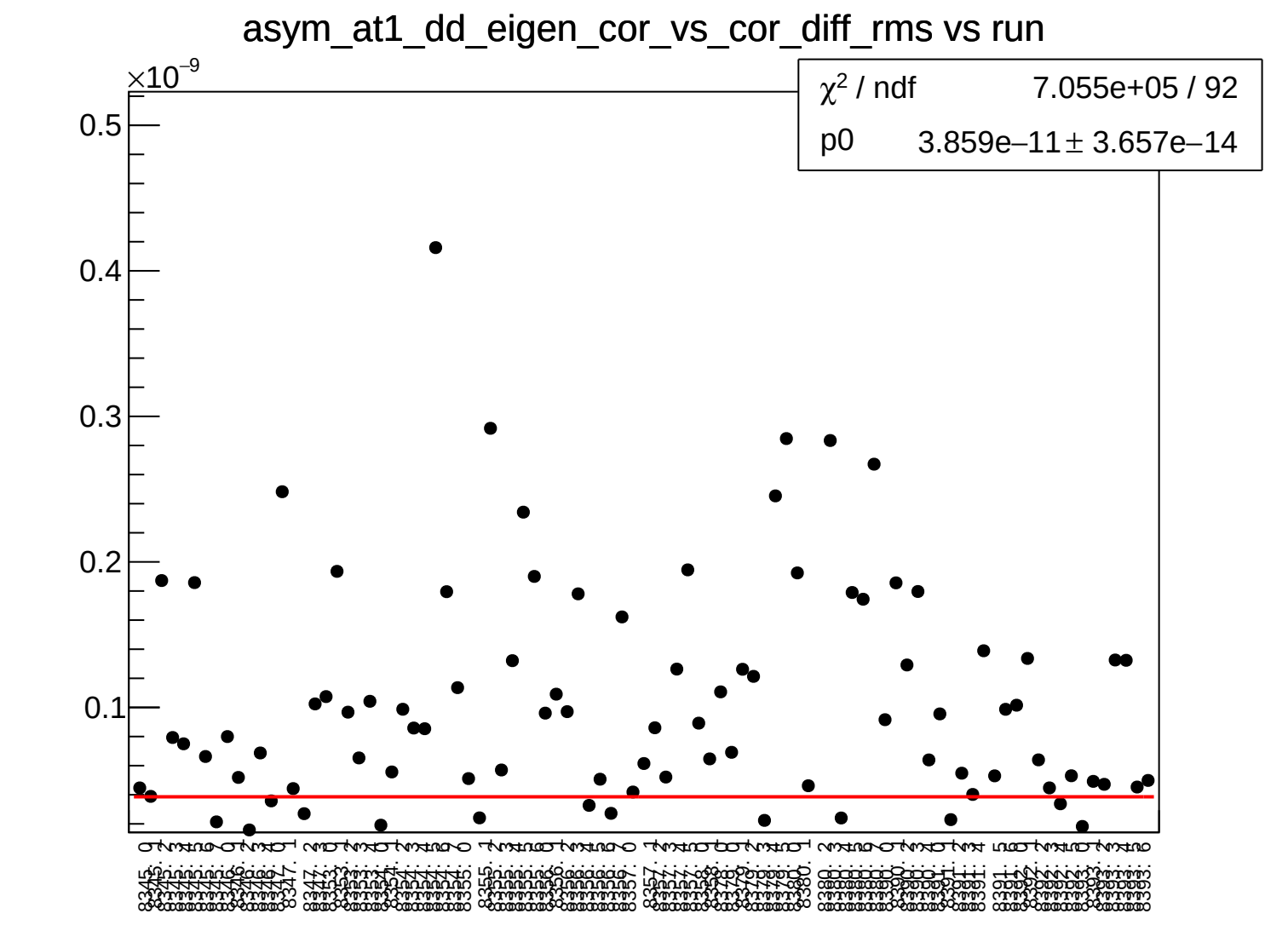

pull1D
Entries 93
Mean −0.03661
Std Dev 0.987

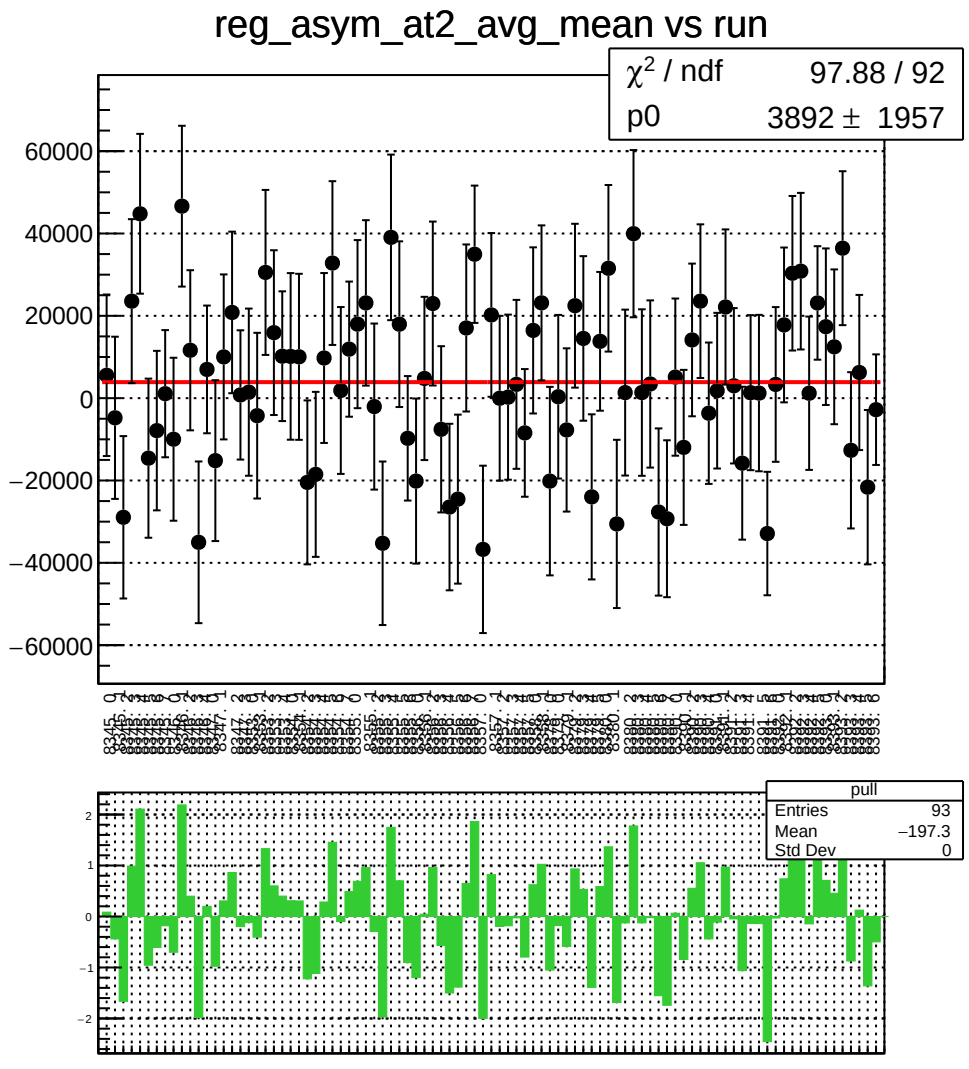

asym_at1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.938e+05 / 92
p0 41.82 ± 0.0328
120
100
80
60
40
20

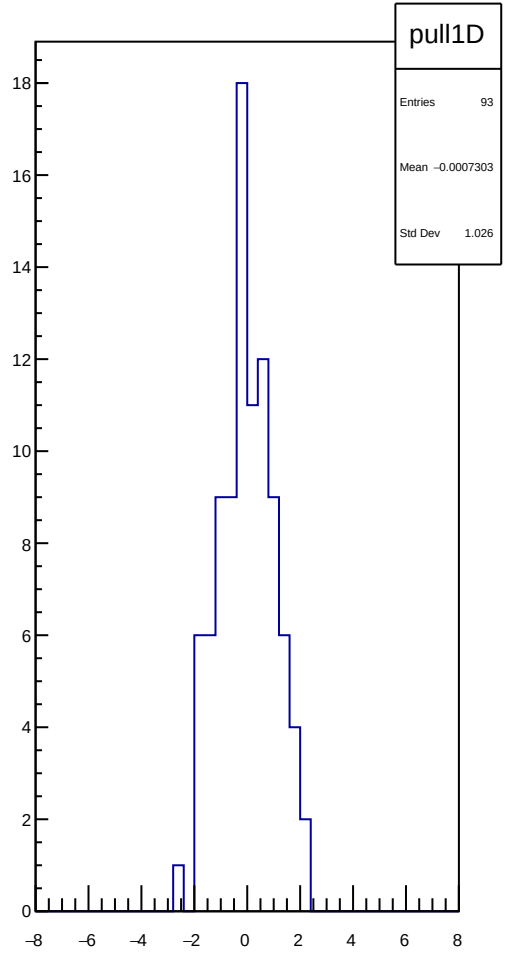

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.73 / 92
p0 −0.04932 ± 0.04639
pull
Entries 93
Mean 87.29
Std Dev 0
pull1D
Entries 93
Mean −0.03661
Std Dev 0.987

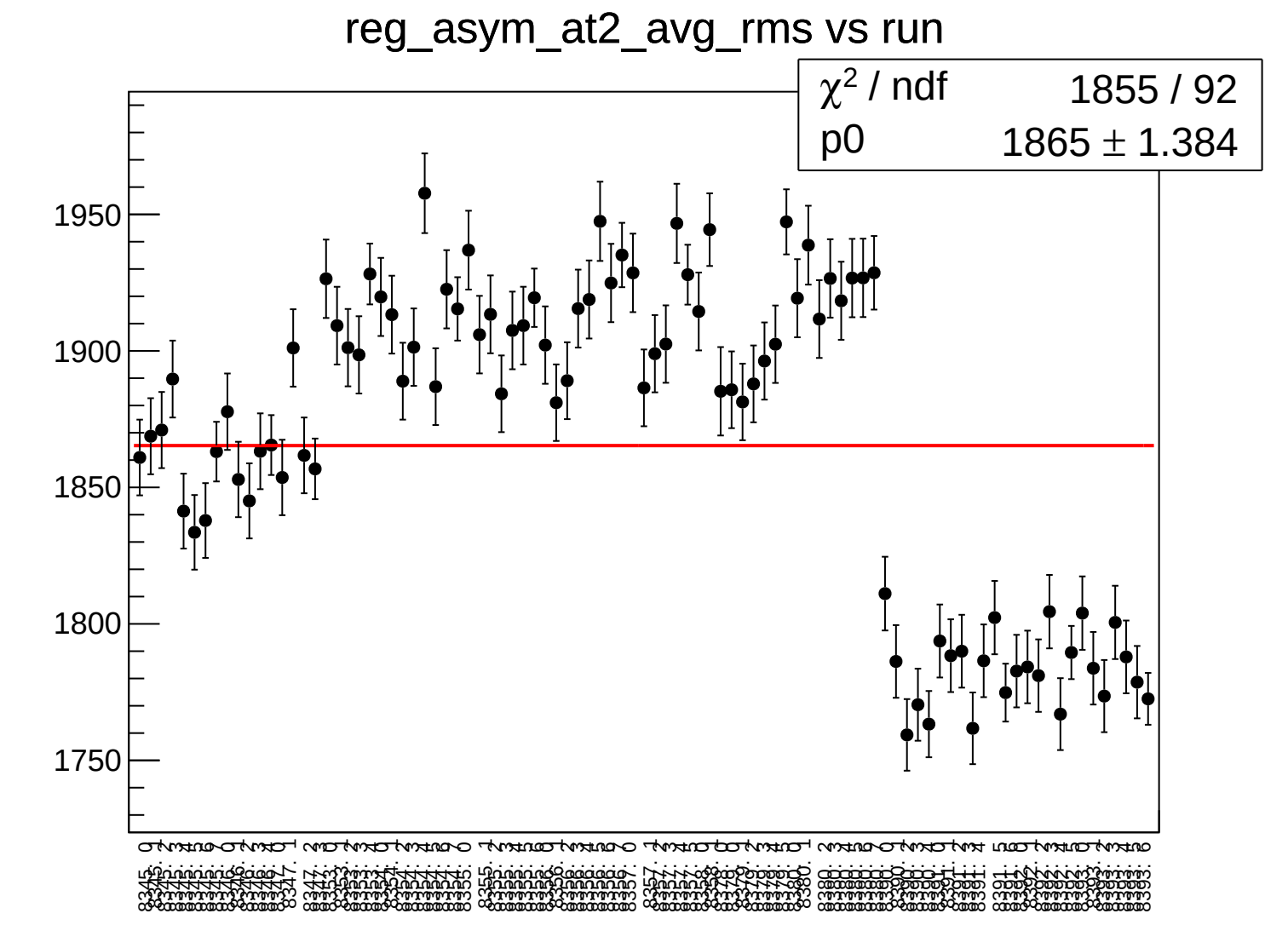

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.938e+05 / 92
p0 41.82 ± 0.0328
120
100
80
60
40
20

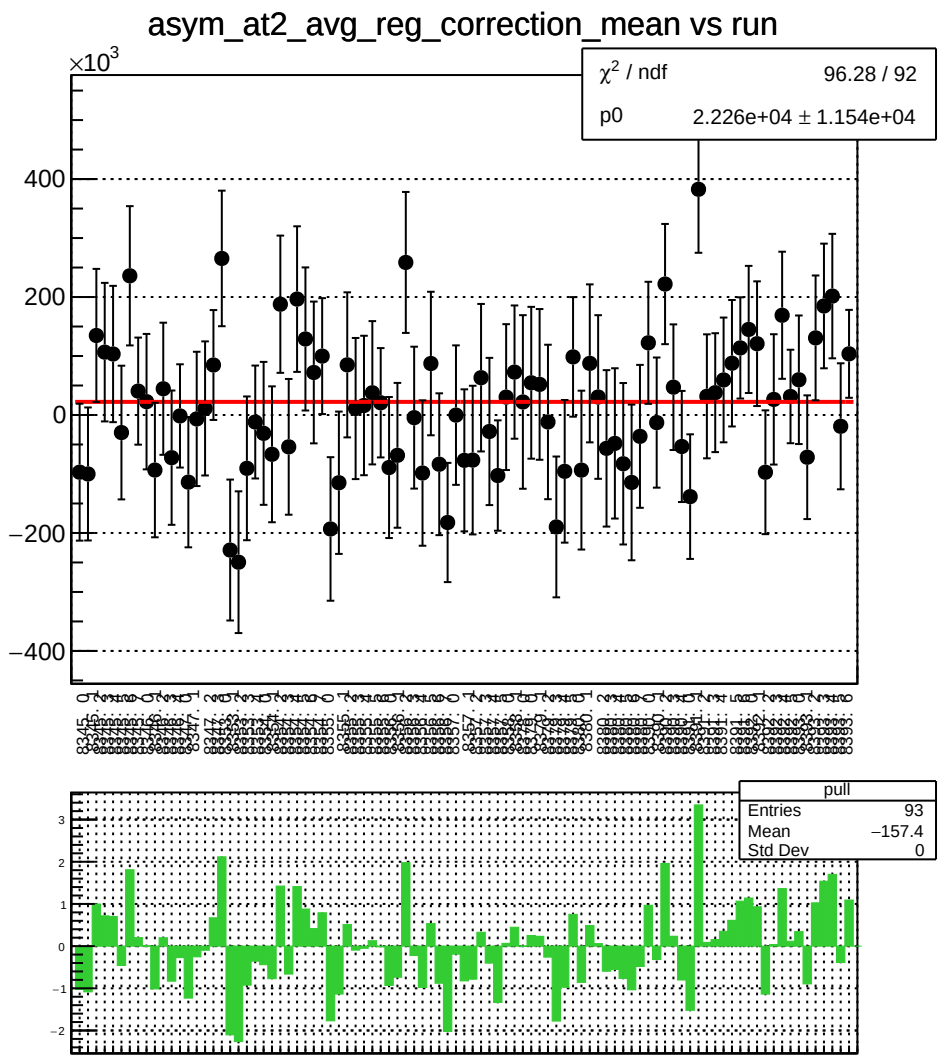

asym_at1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.68 / 92
p0 6.521e−14 ± 5.172e−14
pull
Entries 93
Mean 38.3
Std Dev 42.27
pull1D
Entries 93
Mean −0.0634
Std Dev 1.023

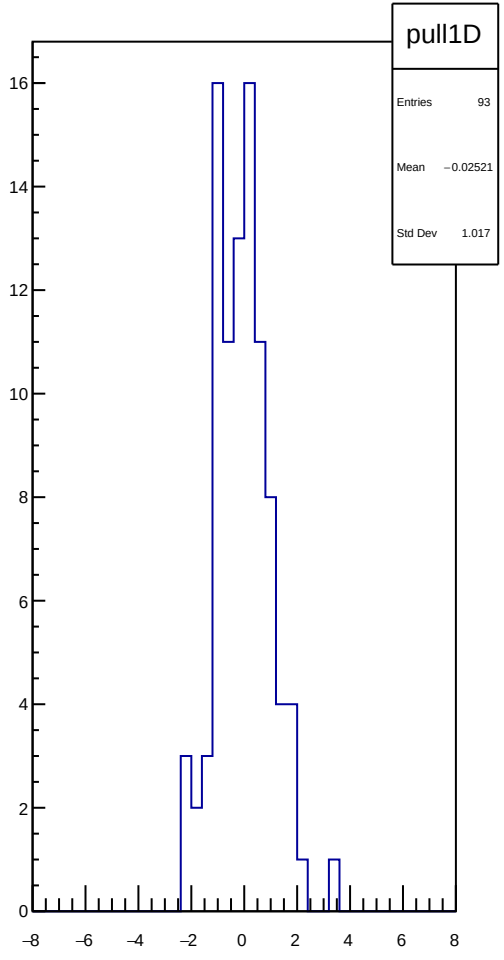

asym_at1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.055e+05 / 92
p0 3.859e−11 ± 3.657e−14
0.5
0.4
0.3
0.2
0.1

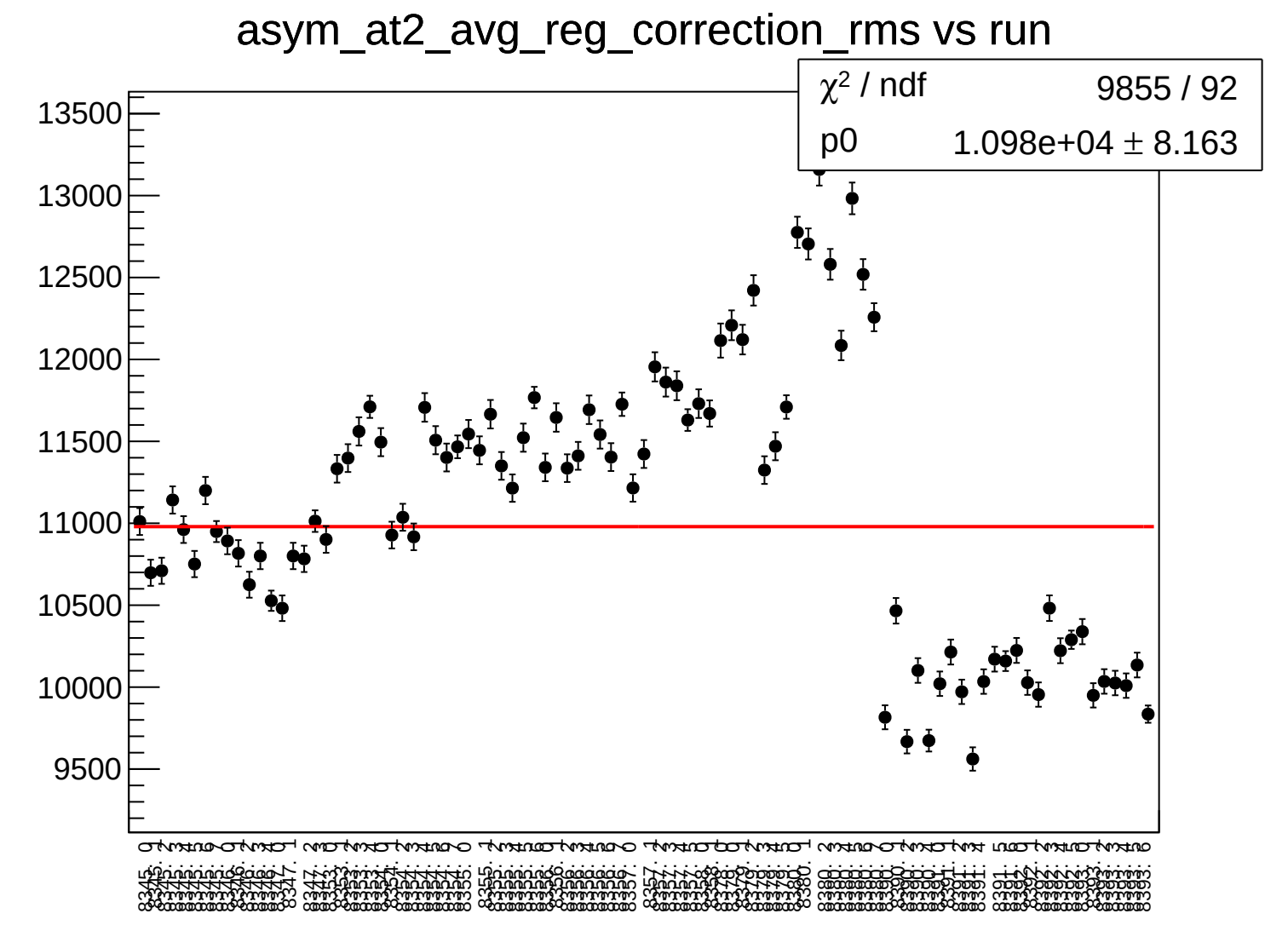

reg_asym_at2_avg_mean vs run
χ^2 / ndf 97.88 / 92
p0 3892 ± 1957
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −197.3
Std Dev 0
2
1
0
−1
−2

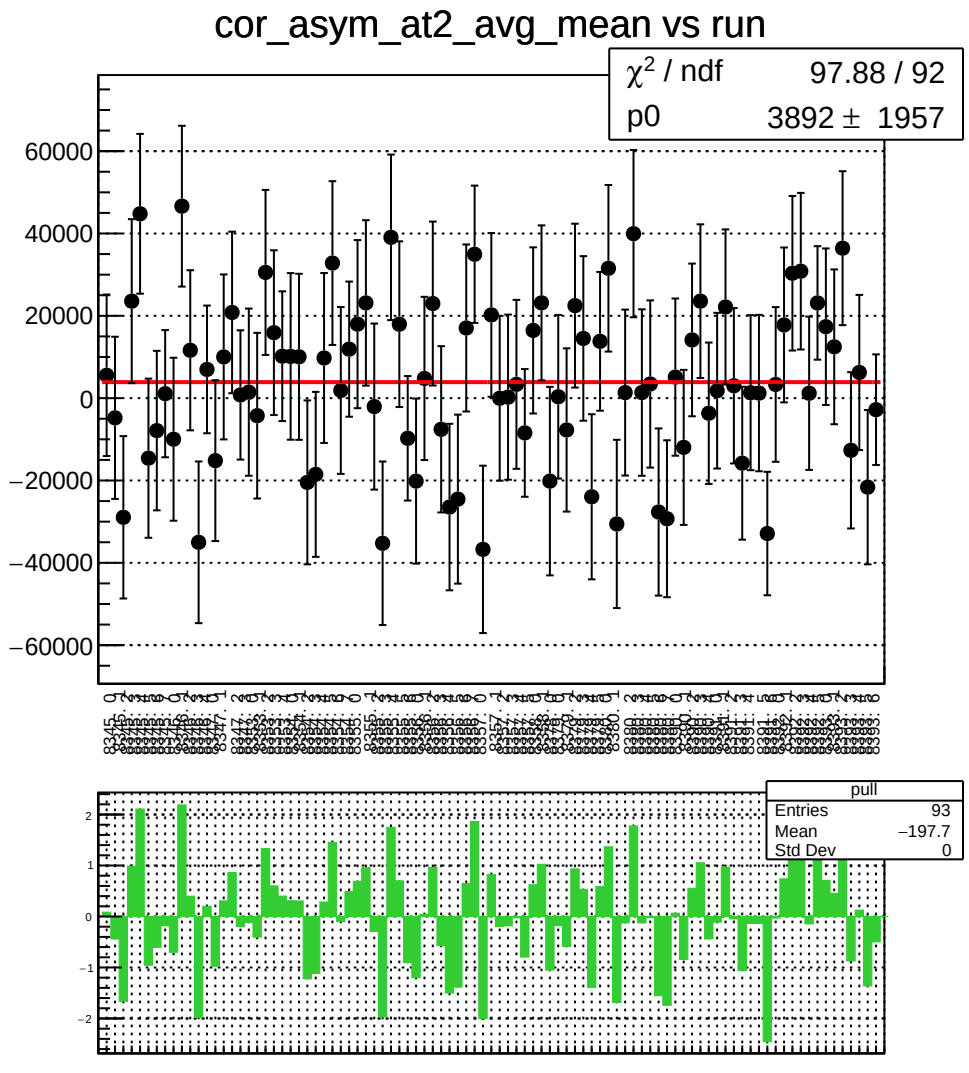

pull1D
Entries 93
Mean −0.0007303
Std Dev 1.026
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

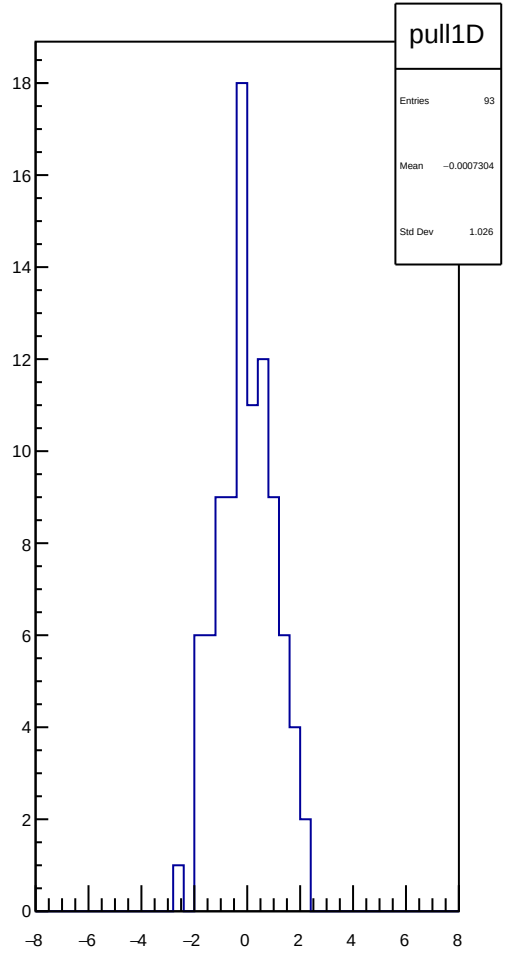

reg_asym_at2_avg_rms vs run
χ^2 / ndf 1855 / 92
p0 1865 ± 1.384
1950
1900
1850
1800
1750

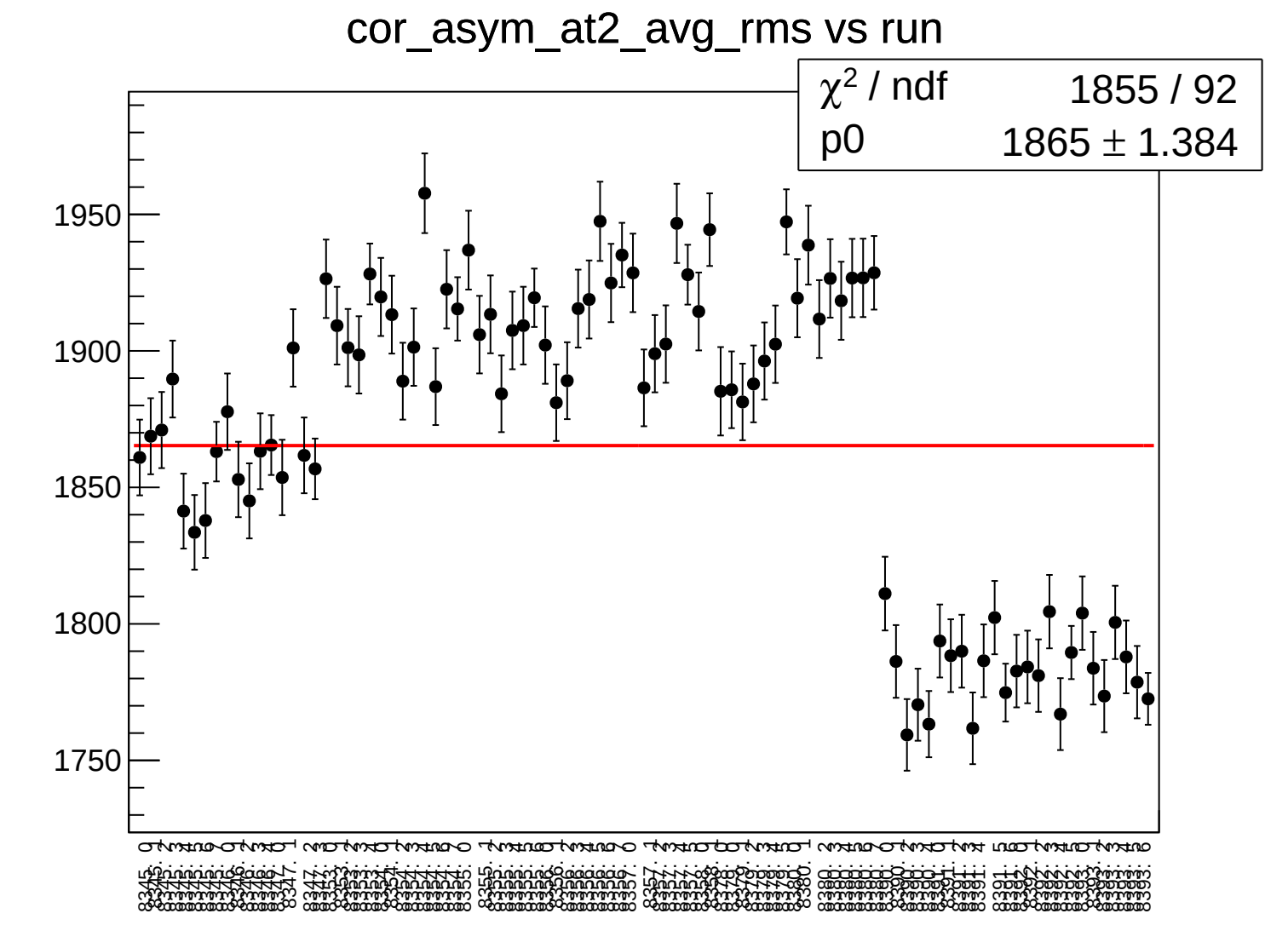

asym_at2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 96.28 / 92
p0 2.226e+04 ± 1.154e+04
400
200
0
−200
−400
pull
Entries 93
Mean −157.4
Std Dev 0
3
2
1
0
−1
−2

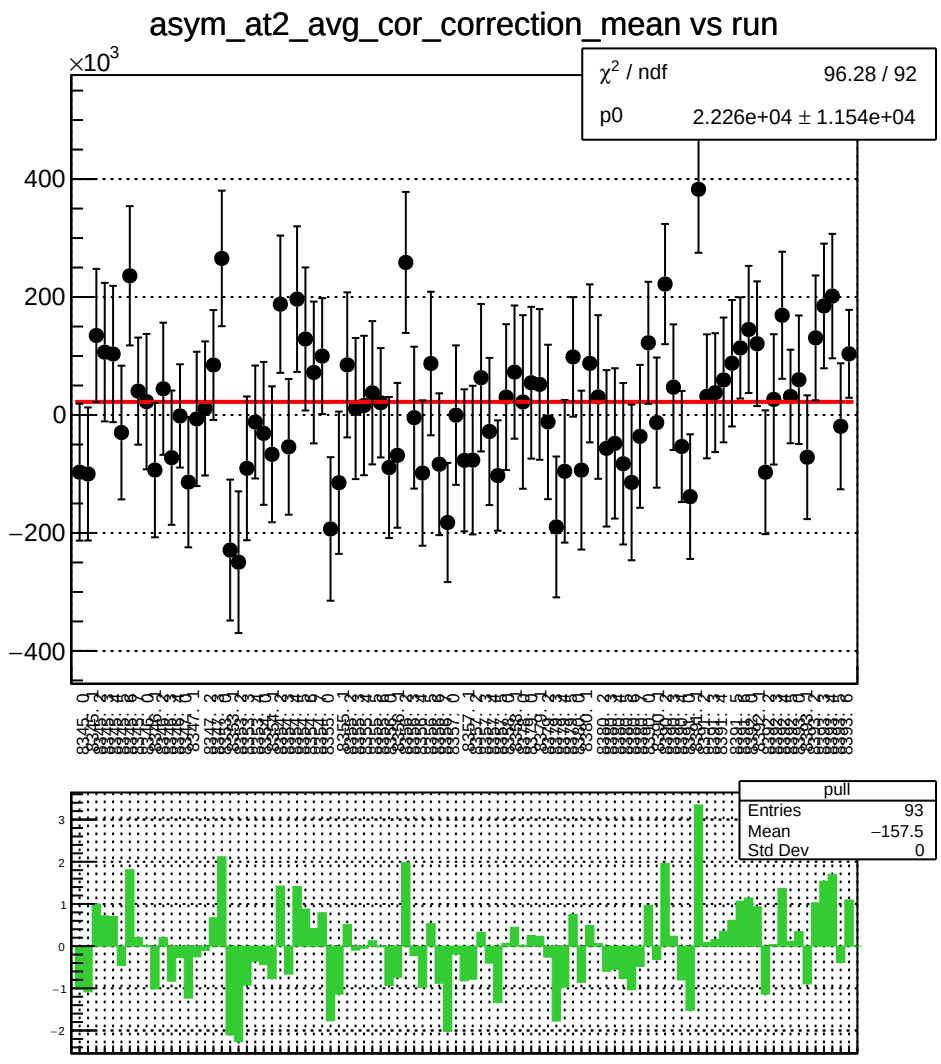

pull1D
Entries 93
Mean −0.02521
Std Dev 1.017
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

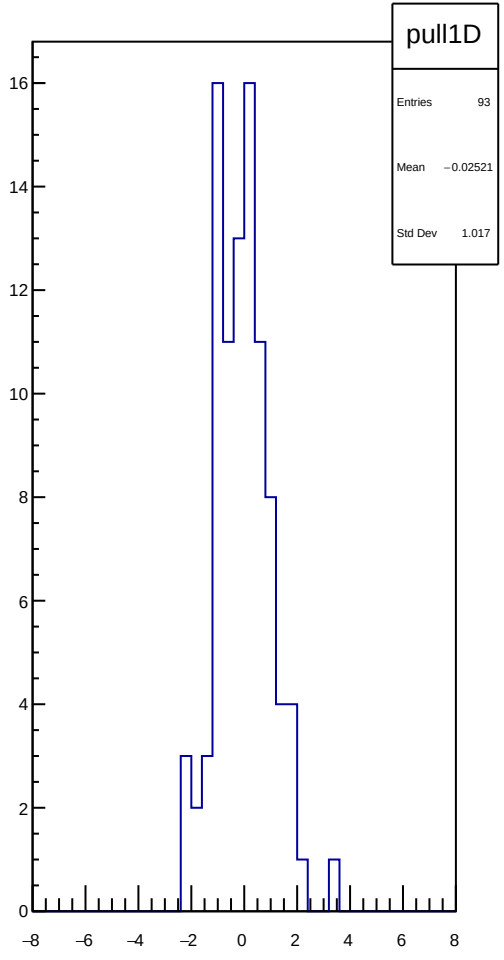

asym_at2_avg_reg_correction_rms vs run
χ² / ndf 9855 / 92
p0 1.098e+04 ± 8.163
13500
13000
12500
12000
11500
11000
10500
10000
9500

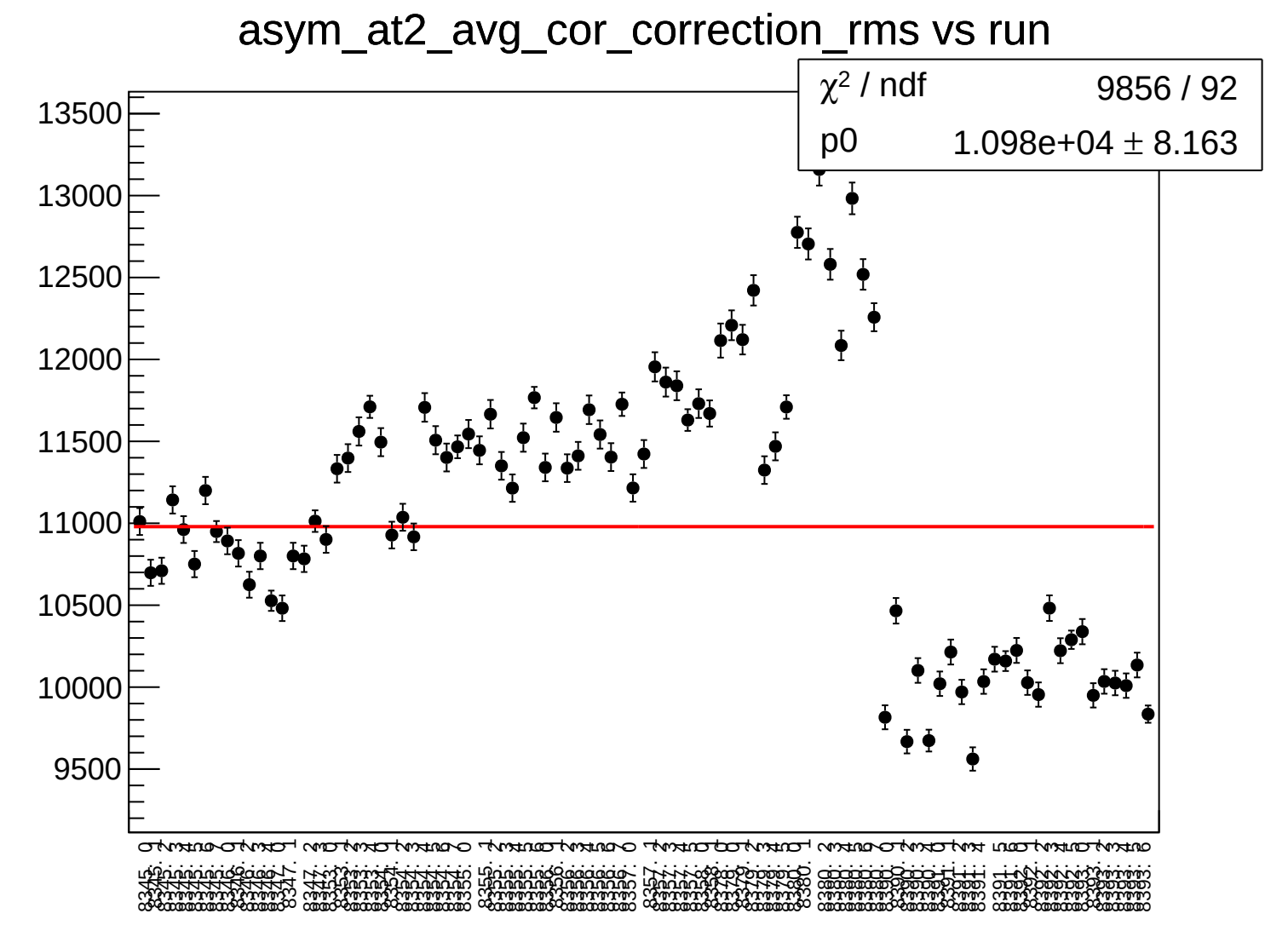

cor_asym_at2_avg_mean vs run
χ² / ndf 97.88 / 92
p0 3892 ± 1957
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −197.7
Std Dev 0
2
1
0
−1
−2

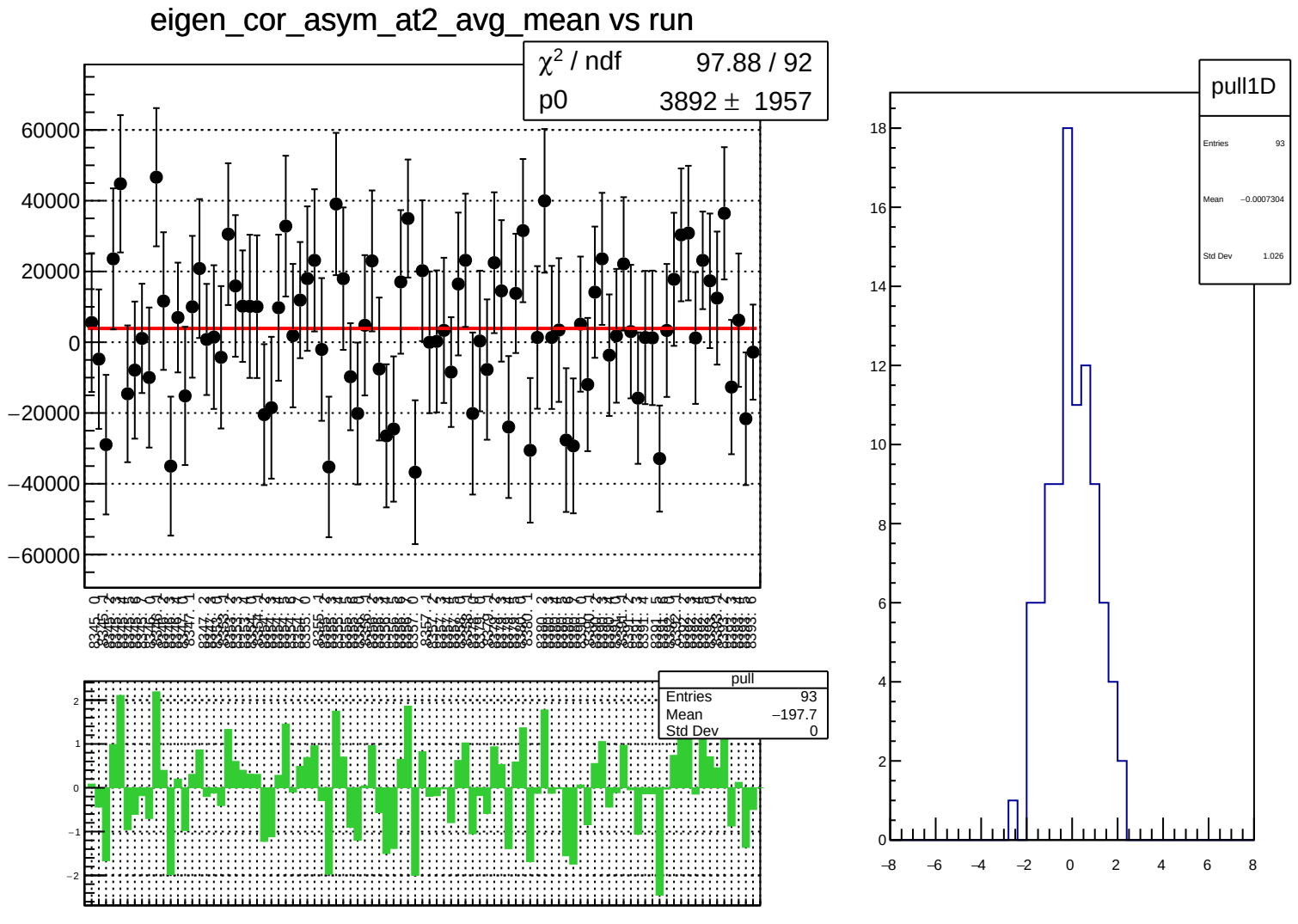

pull1D
Entries 93
Mean −0.0007304
Std Dev 1.026
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

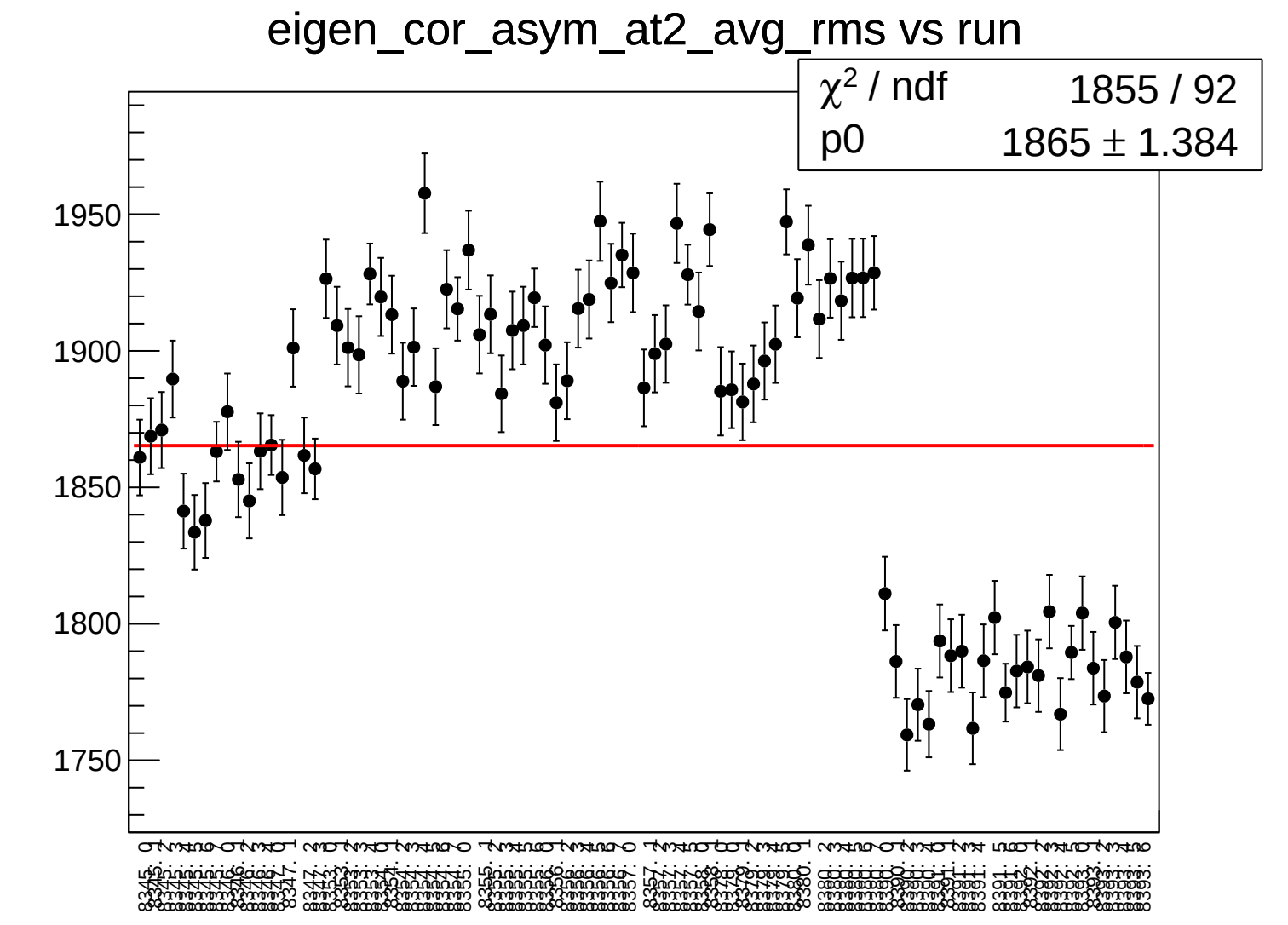

cor_asym_at2_avg_rms vs run
χ^2 / ndf 1855 / 92
p0 1865 ± 1.384
1950
1900
1850
1800
1750

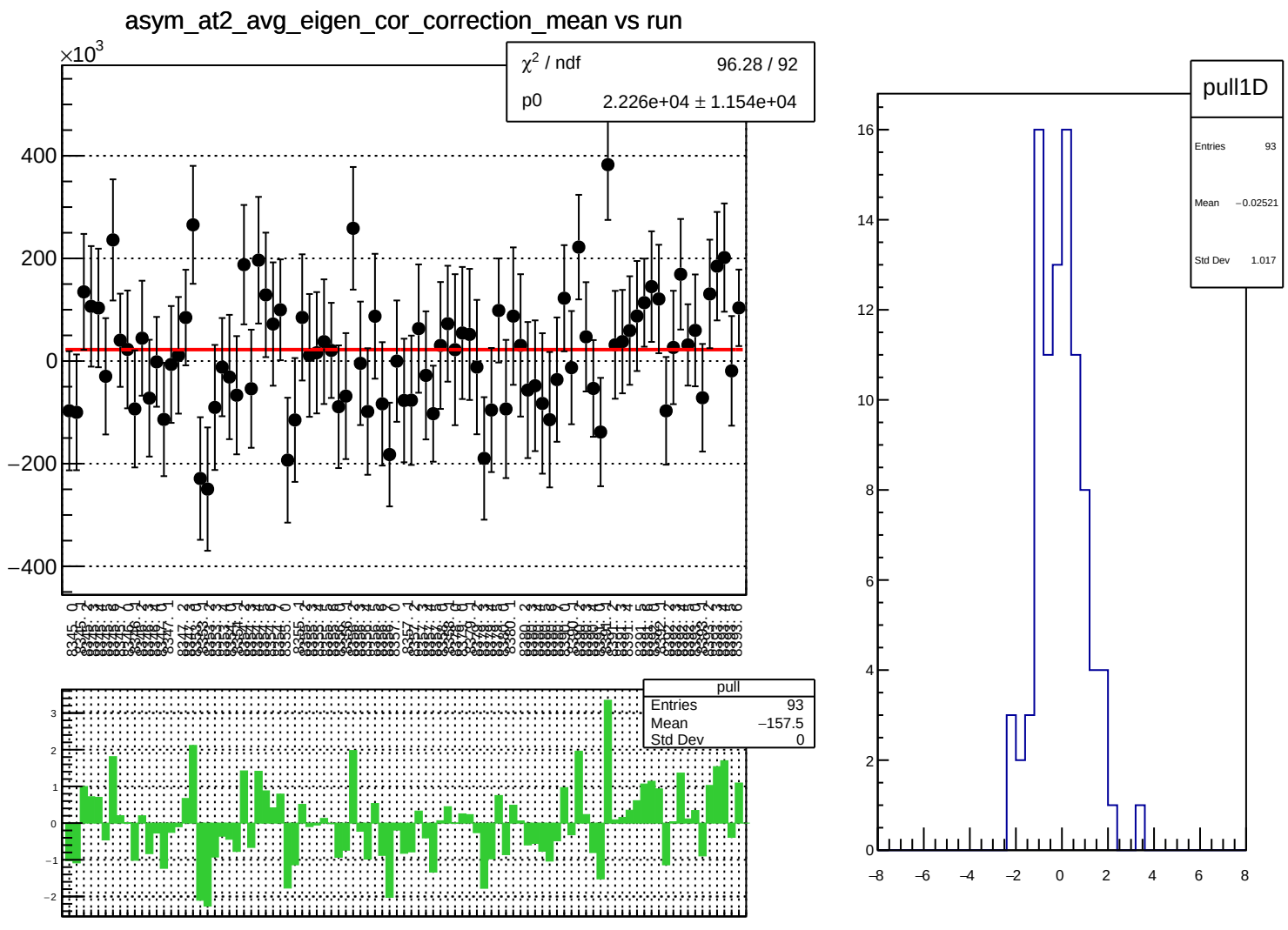

asym_at2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 96.28 / 92
p0 2.226e+04 ± 1.154e+04
400
200
0
−200
−400
pull
Entries 93
Mean −157.5
Std Dev 0
3
2
1
0
−1
−2

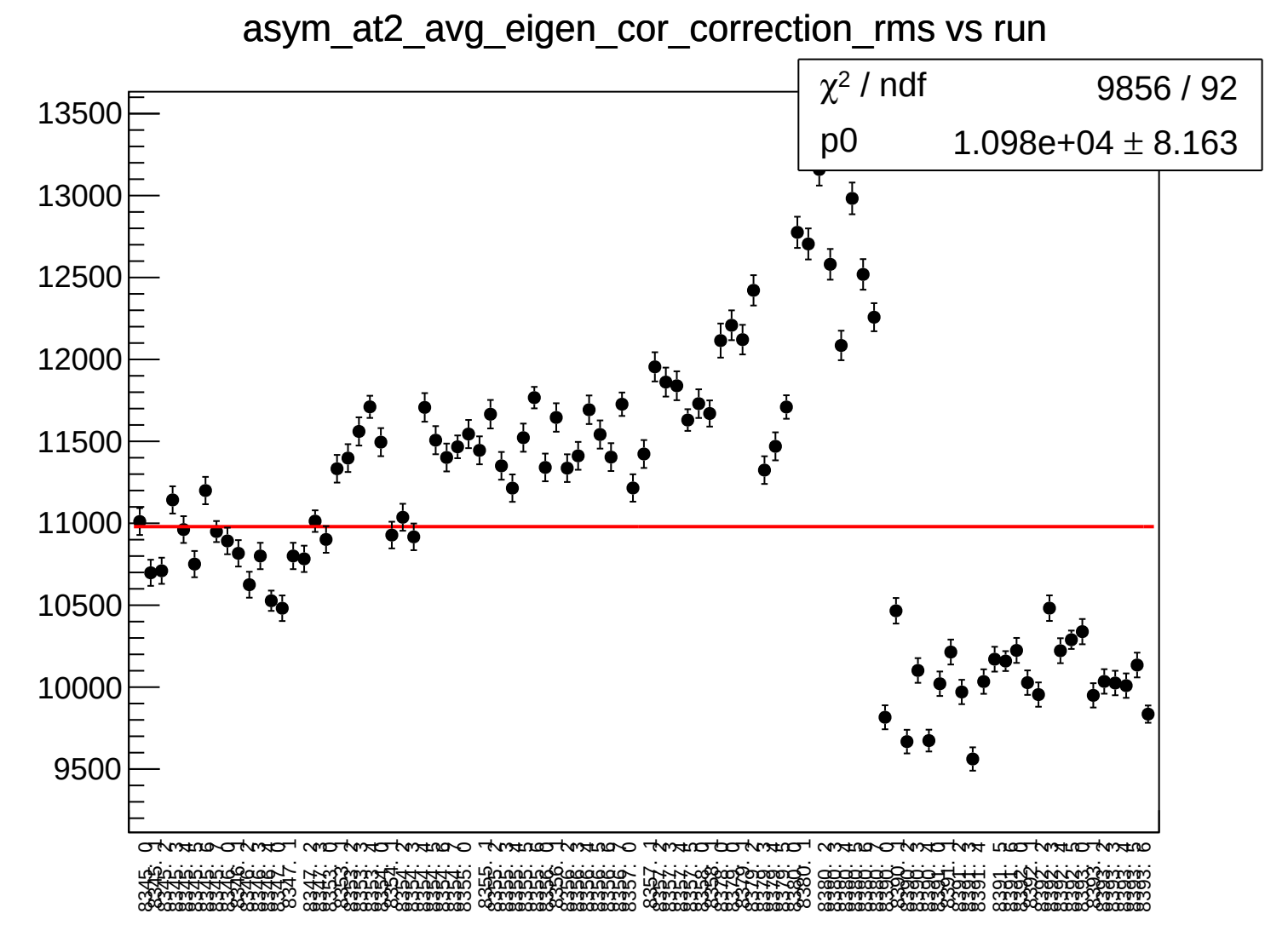

pull1D
Entries 93
Mean −0.02521
Std Dev 1.017
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

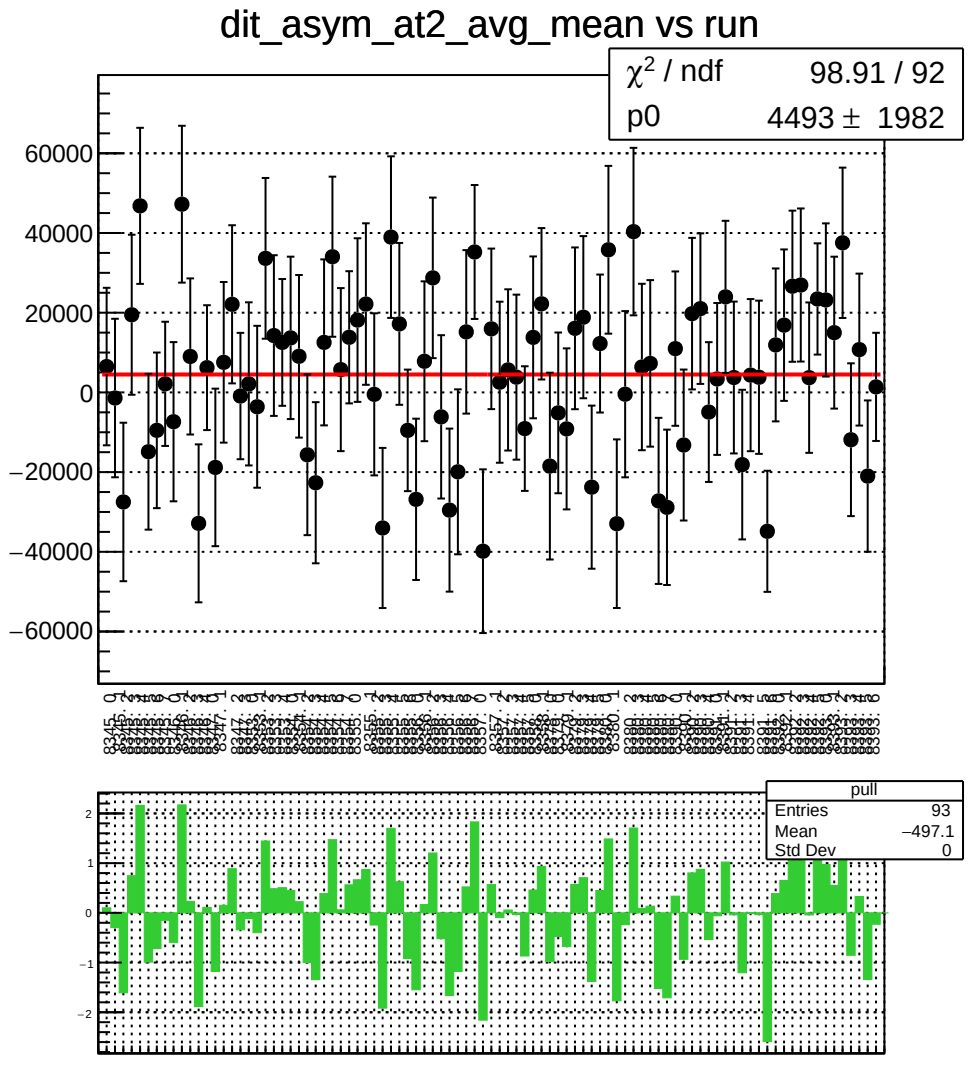

asym_at2_avg_cor_correction_rms vs run
χ² / ndf 9856 / 92
p0 1.098e+04 ± 8.163
13500
13000
12500
12000
11500
11000
10500
10000
9500

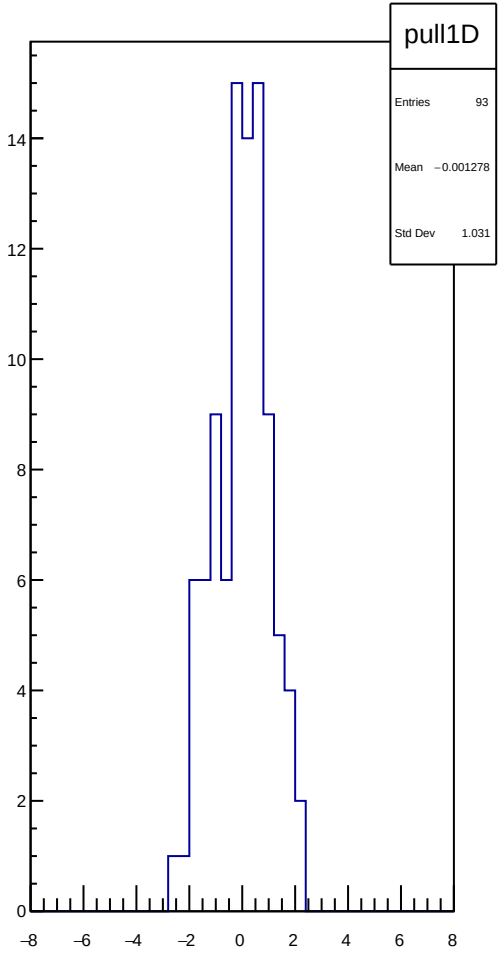

eigen_cor_asym_at2_avg_mean vs run
χ² / ndf 97.88 / 92
p0 3892 ± 1957
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −197.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.0007304
Std Dev 1.026
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

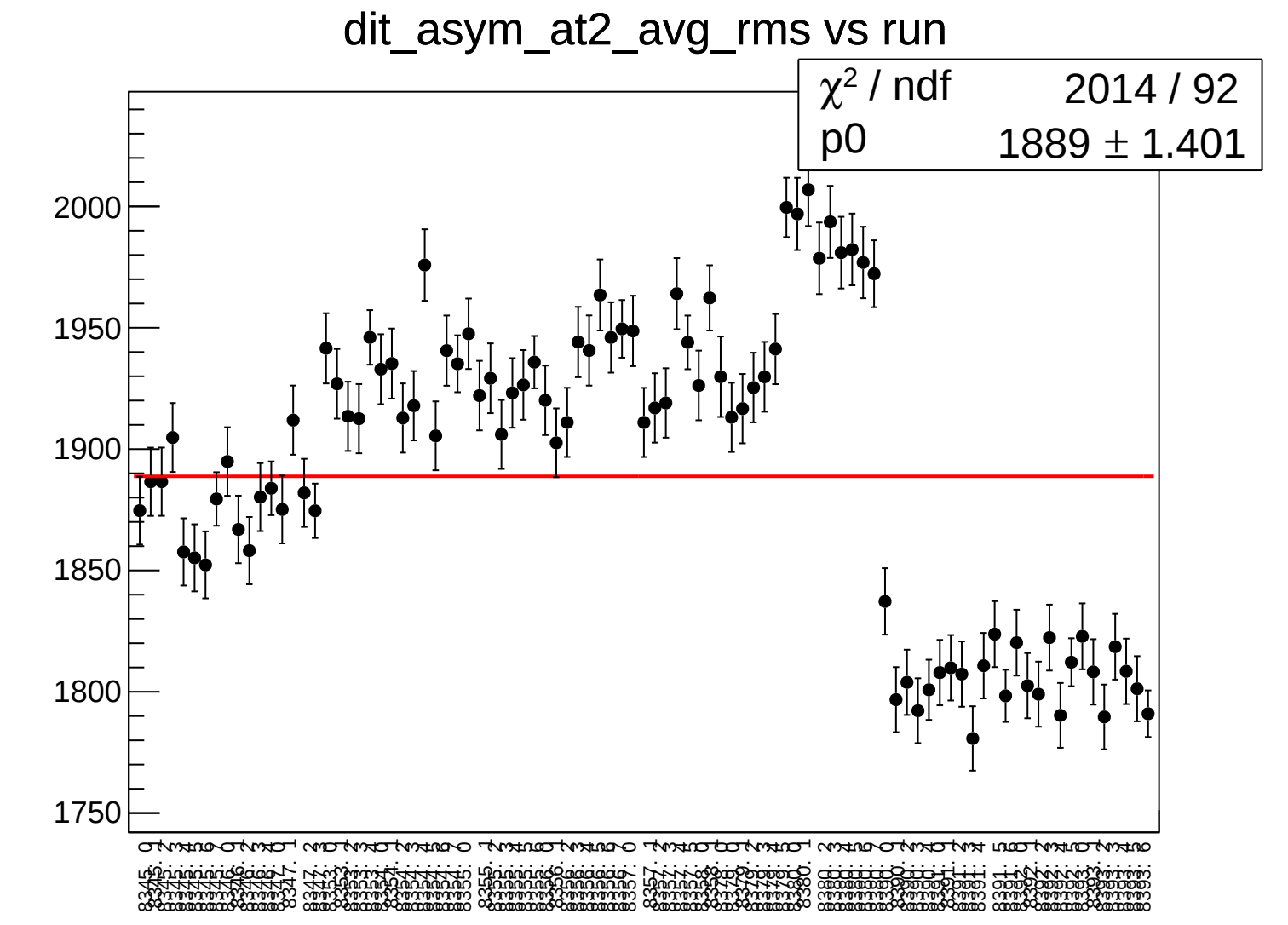

eigen_cor_asym_at2_avg_rms vs run
χ² / ndf 1855 / 92
p0 1865 ± 1.384
1950
1900
1850
1800
1750

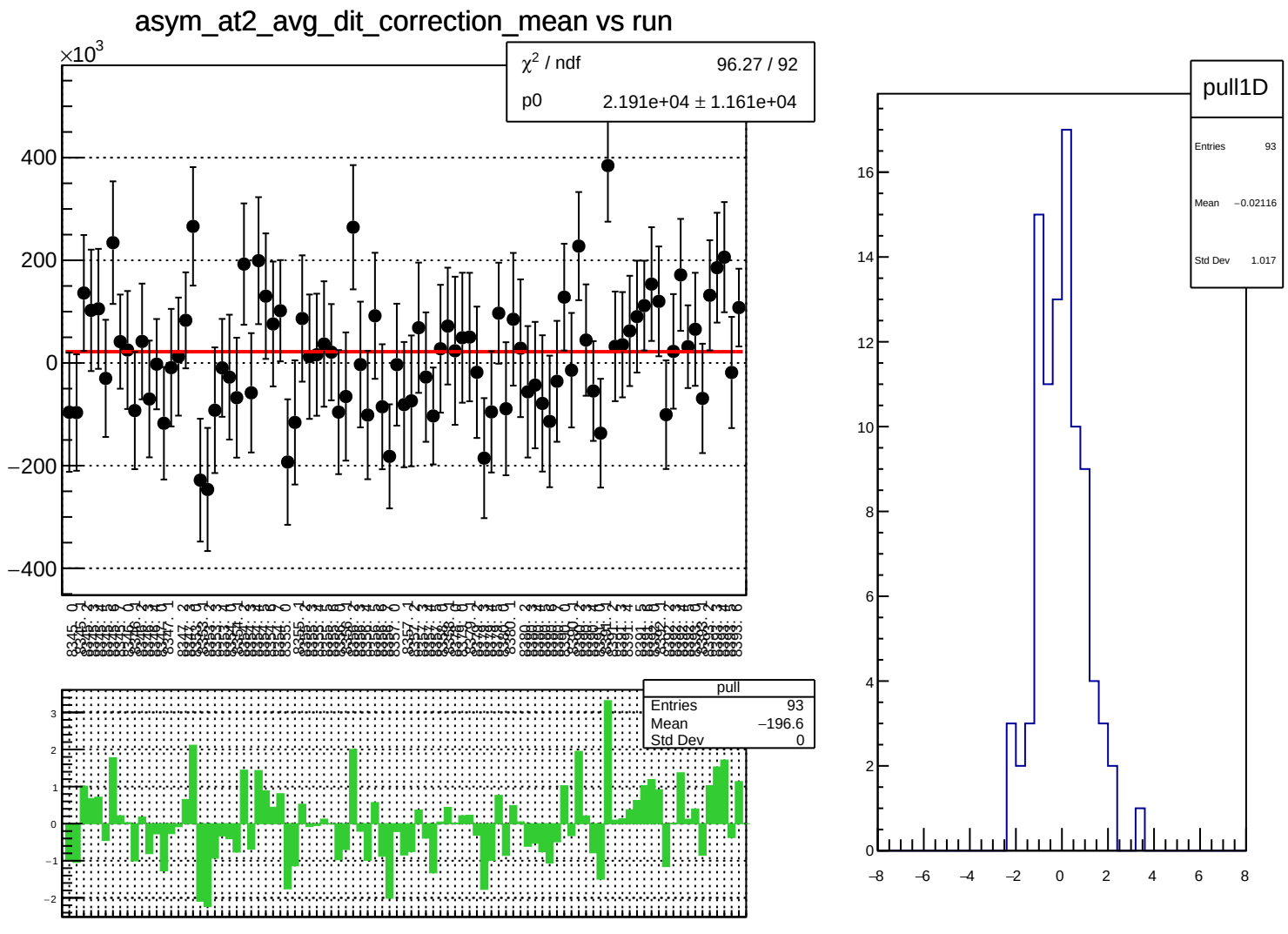

asym_at2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 96.28 / 92
p0 2.226e+04 ± 1.154e+04
400
200
0
−200
−400
pull
Entries 93
Mean −157.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.02521
Std Dev 1.017
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

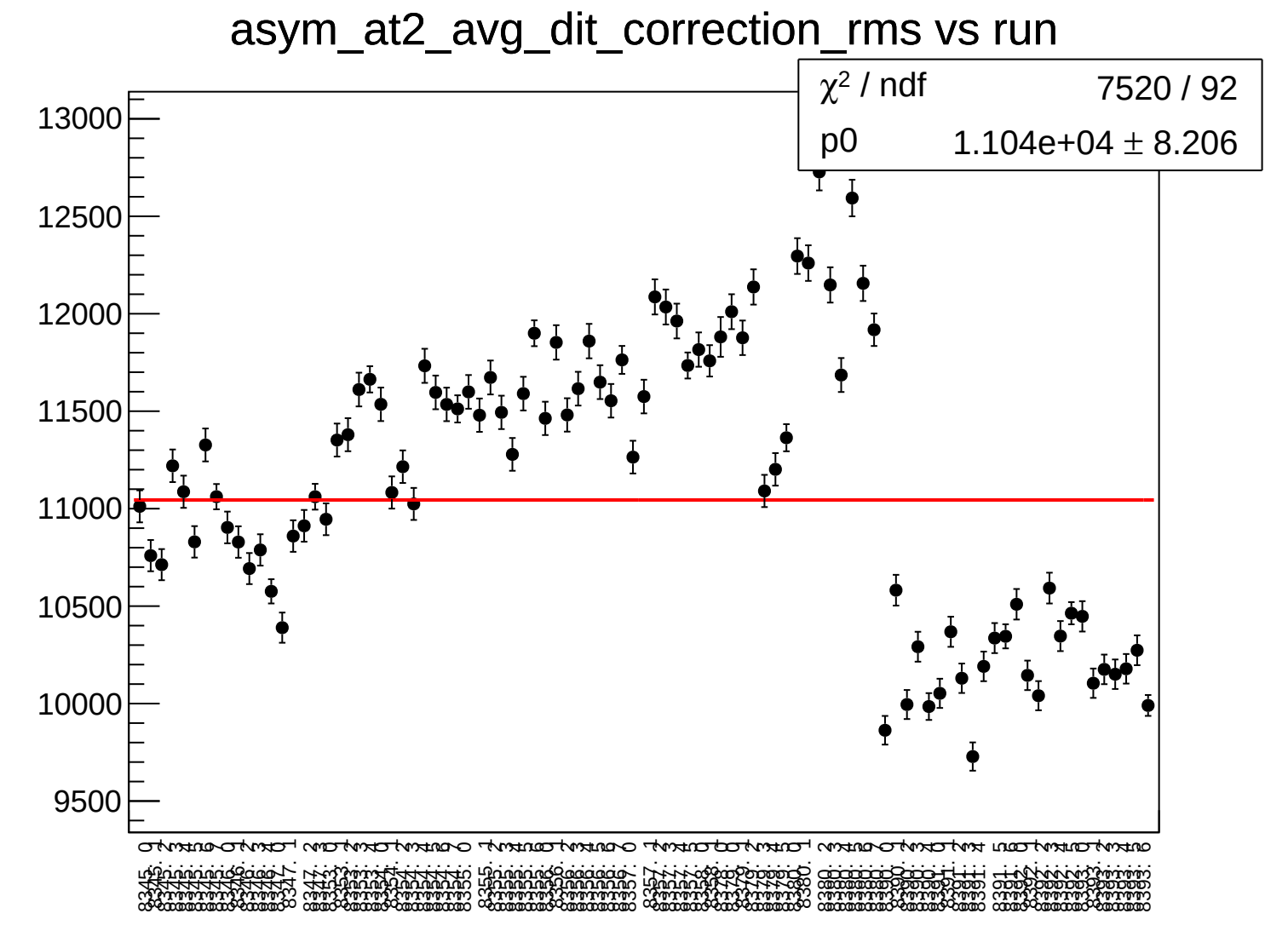

asym_at2_avg_eigen_cor_correction_rms vs run
χ² / ndf 9856 / 92
p0 1.098e+04 ± 8.163
13500
13000
12500
12000
11500
11000
10500
10000
9500

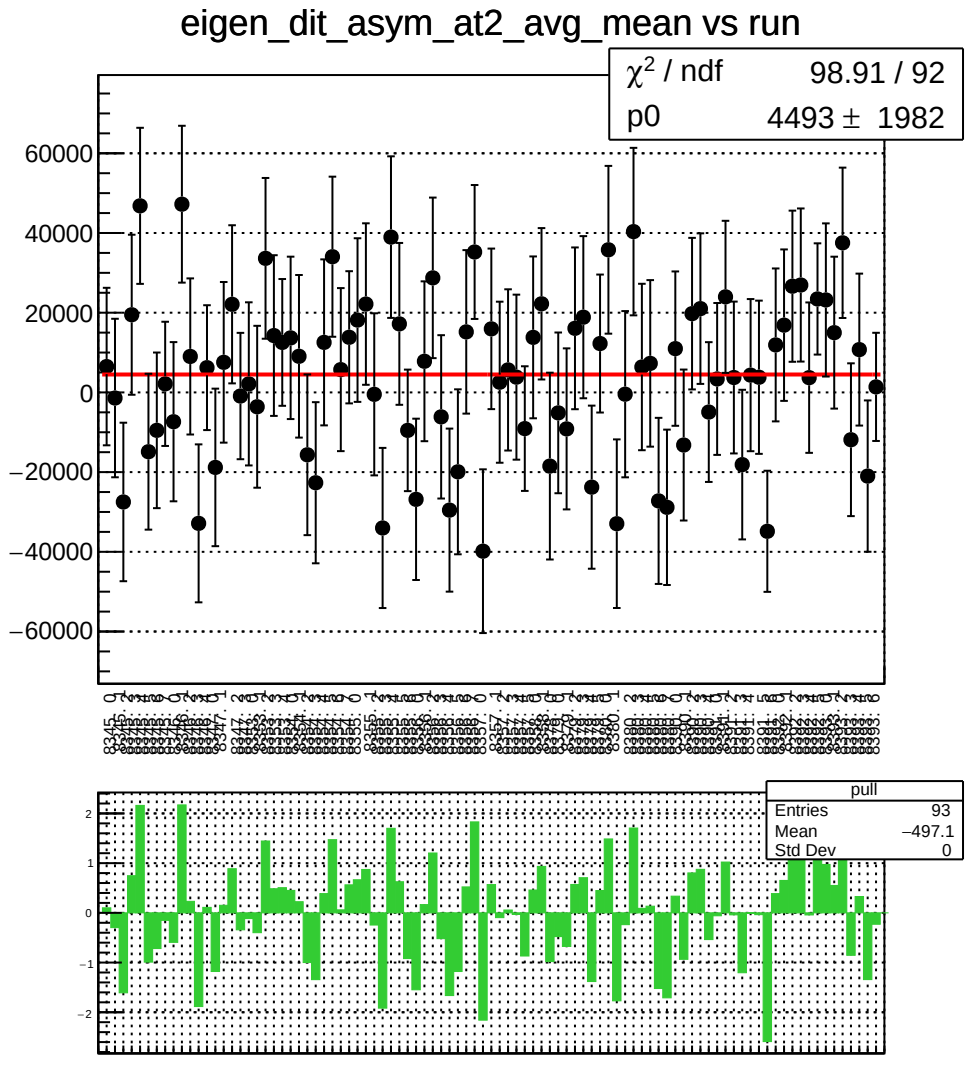

dit_asym_at2_avg_mean vs run
χ² / ndf 98.91 / 92
p0 4493 ± 1982
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −497.1
Std Dev 0
2
1
0
−1
−2

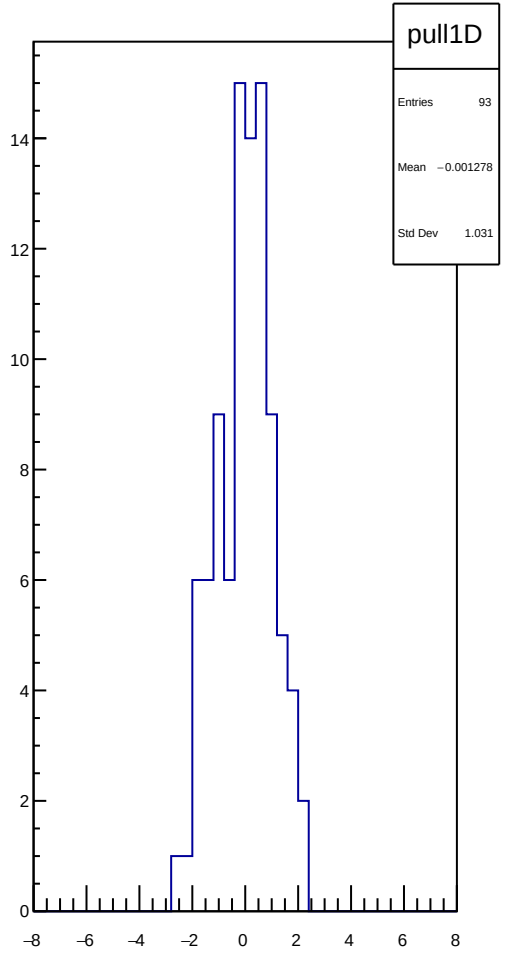

pull1D
Entries 93
Mean −0.001278
Std Dev 1.031
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

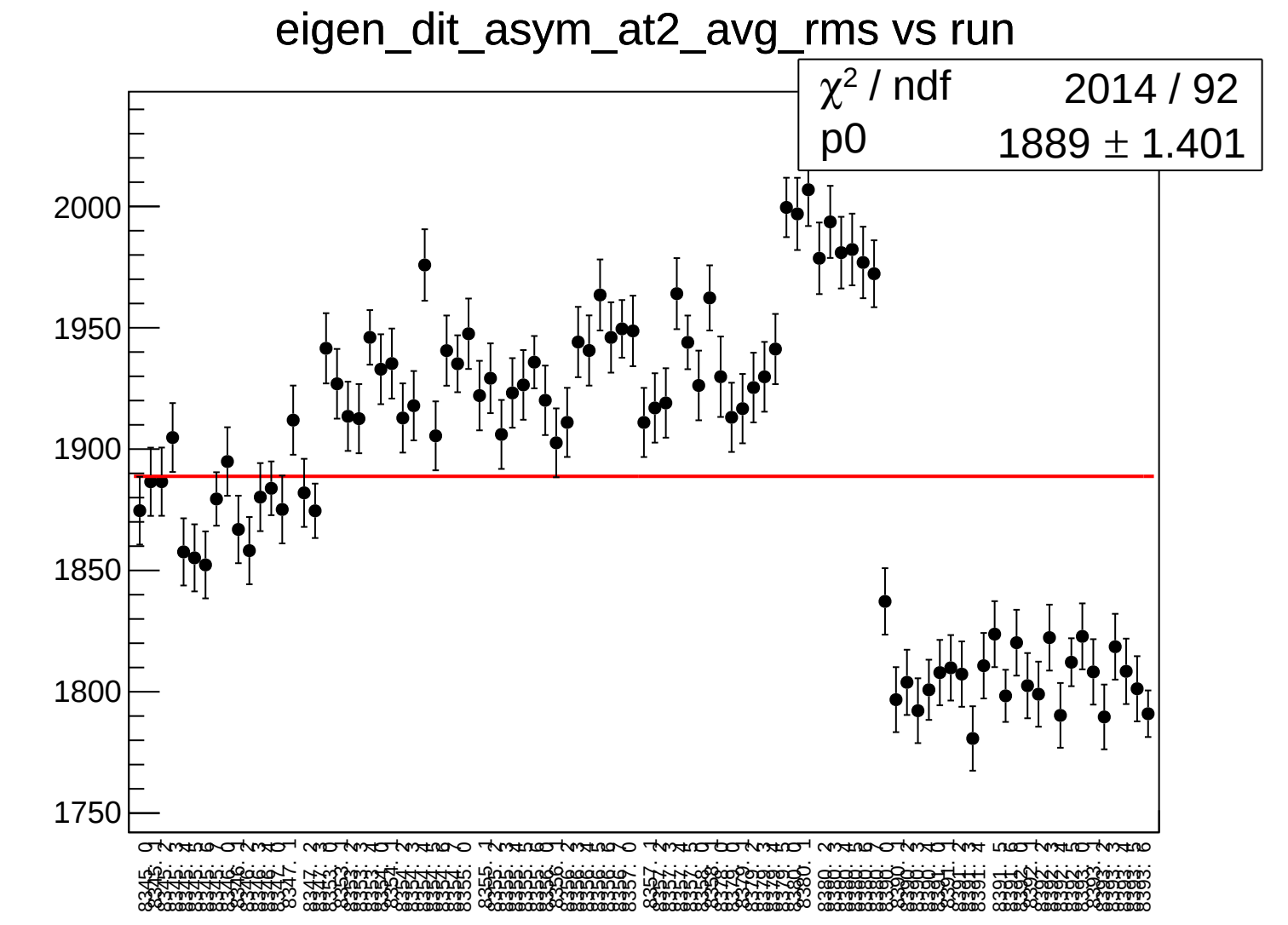

dit_asym_at2_avg_rms vs run
χ² / ndf 2014 / 92
p0 1889 ± 1.401
2000
1950
1900
1850
1800
1750

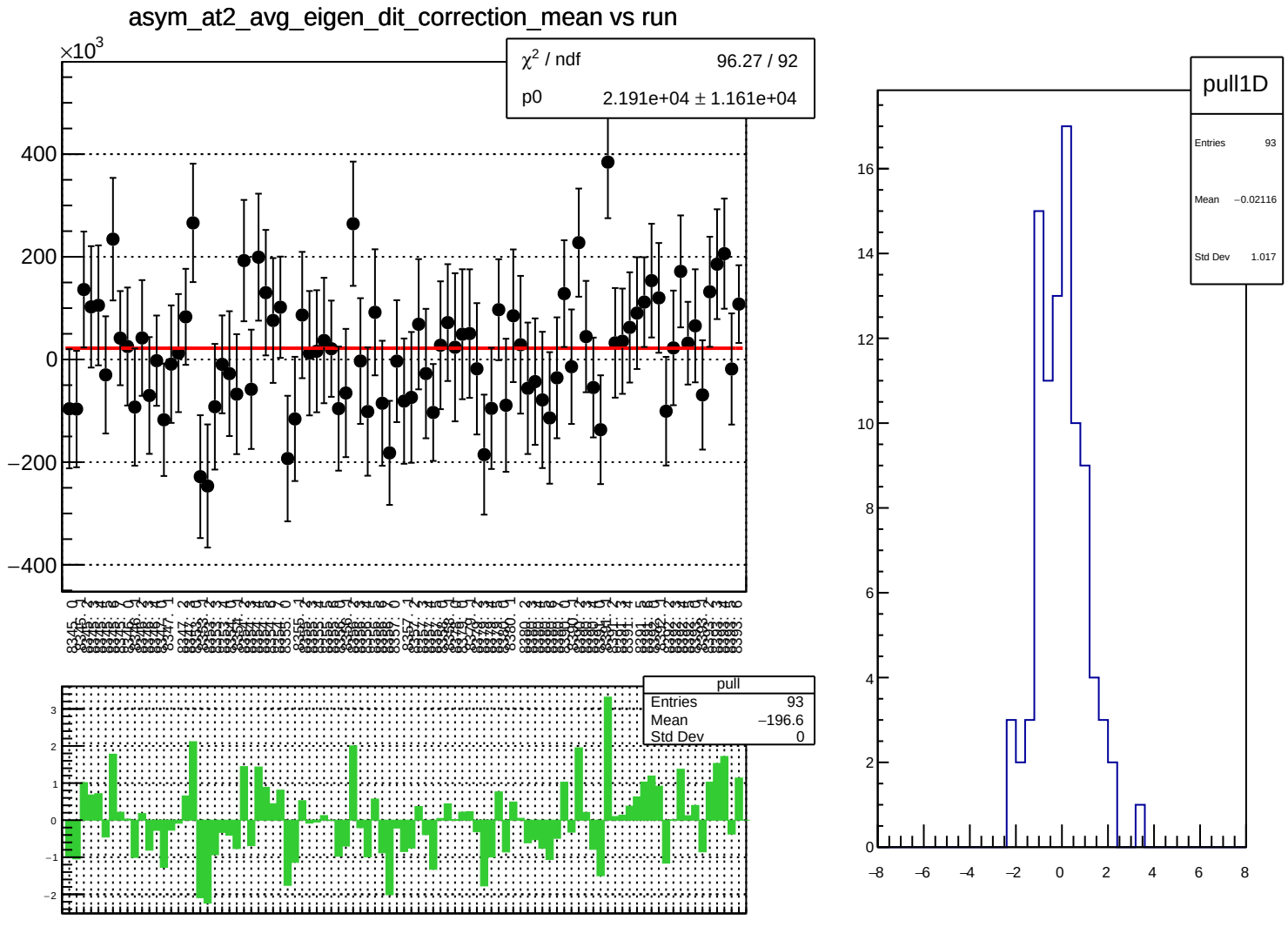

asym_at2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 96.27 / 92
p0 2.191e+04 ± 1.161e+04
400
200
0
−200
−400
pull
Entries 93
Mean −196.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.02116
Std Dev 1.017
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

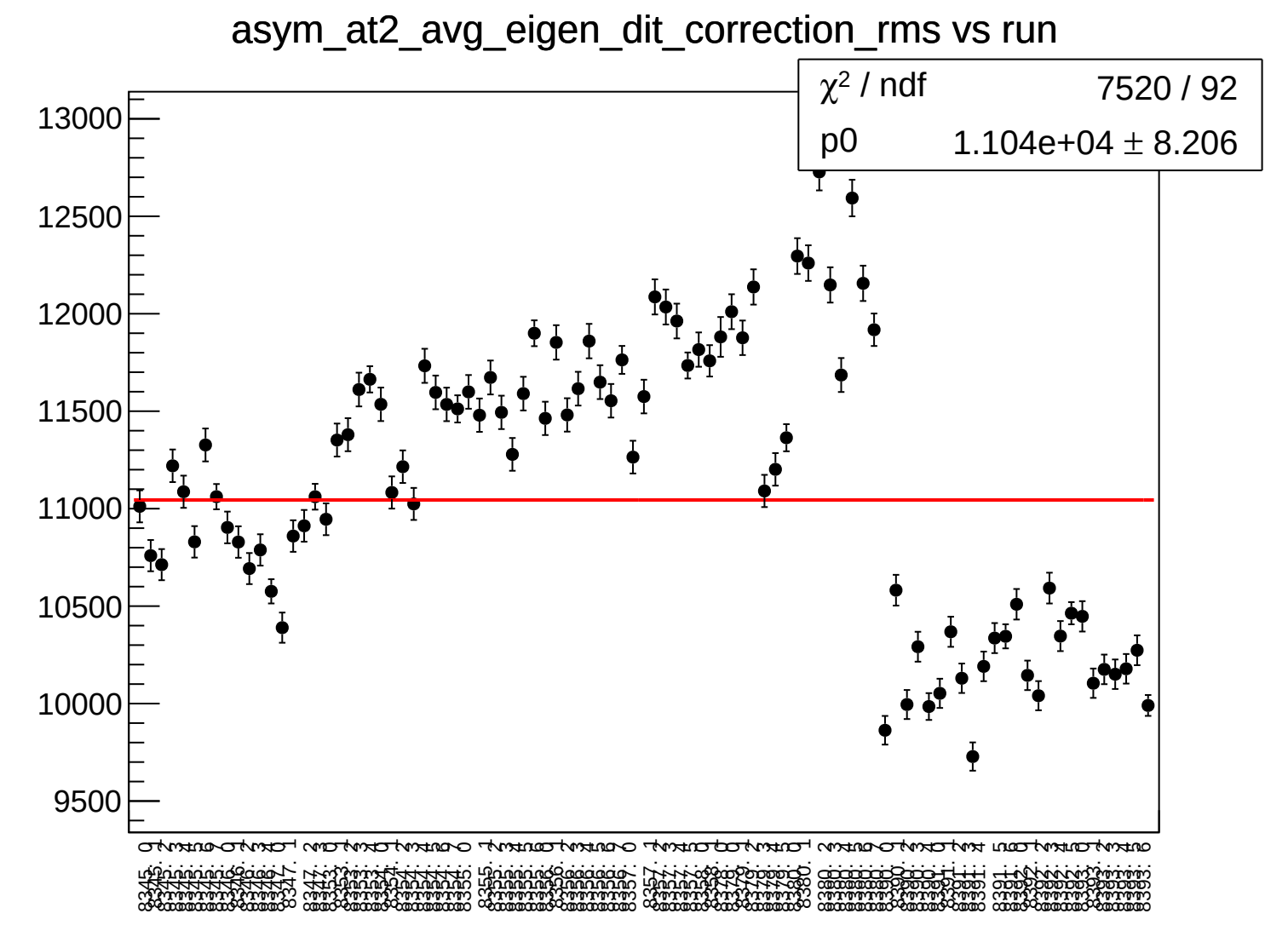

asym_at2_avg_dit_correction_rms vs run
χ² / ndf 7520 / 92
p0 1.104e+04 ± 8.206
13000
12500
12000
11500
11000
10500
10000
9500

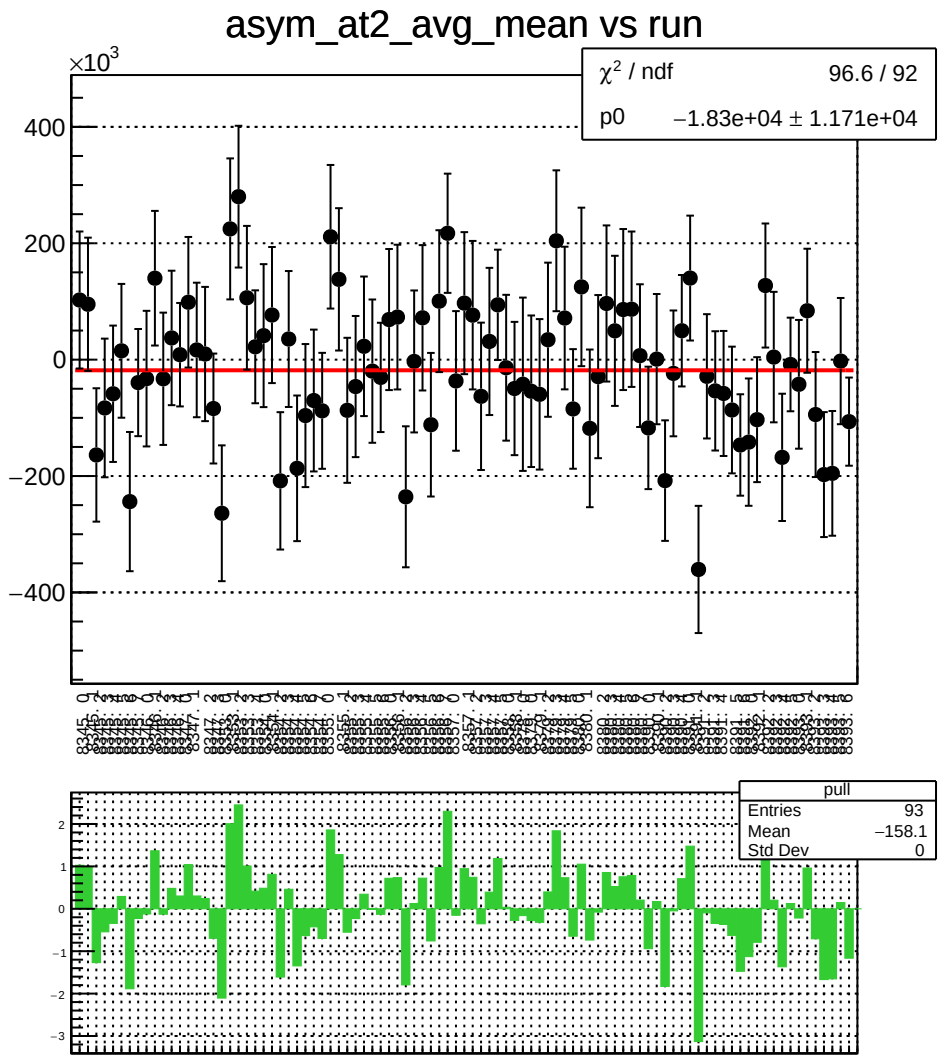

eigen_dit_asym_at2_avg_mean vs run
χ² / ndf 98.91 / 92
p0 4493 ± 1982
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −497.1
Std Dev 0
2
1
0
−1
−2

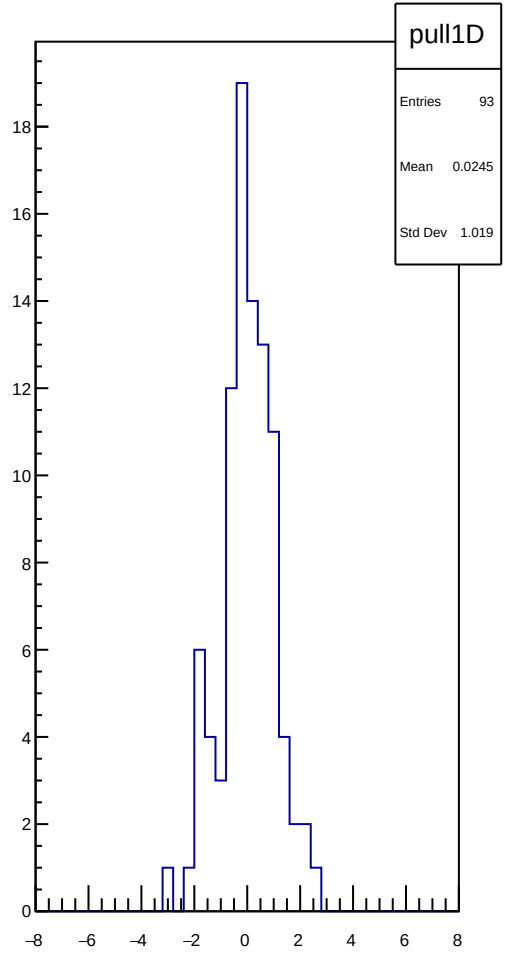

pull1D
Entries 93
Mean −0.001278
Std Dev 1.031
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

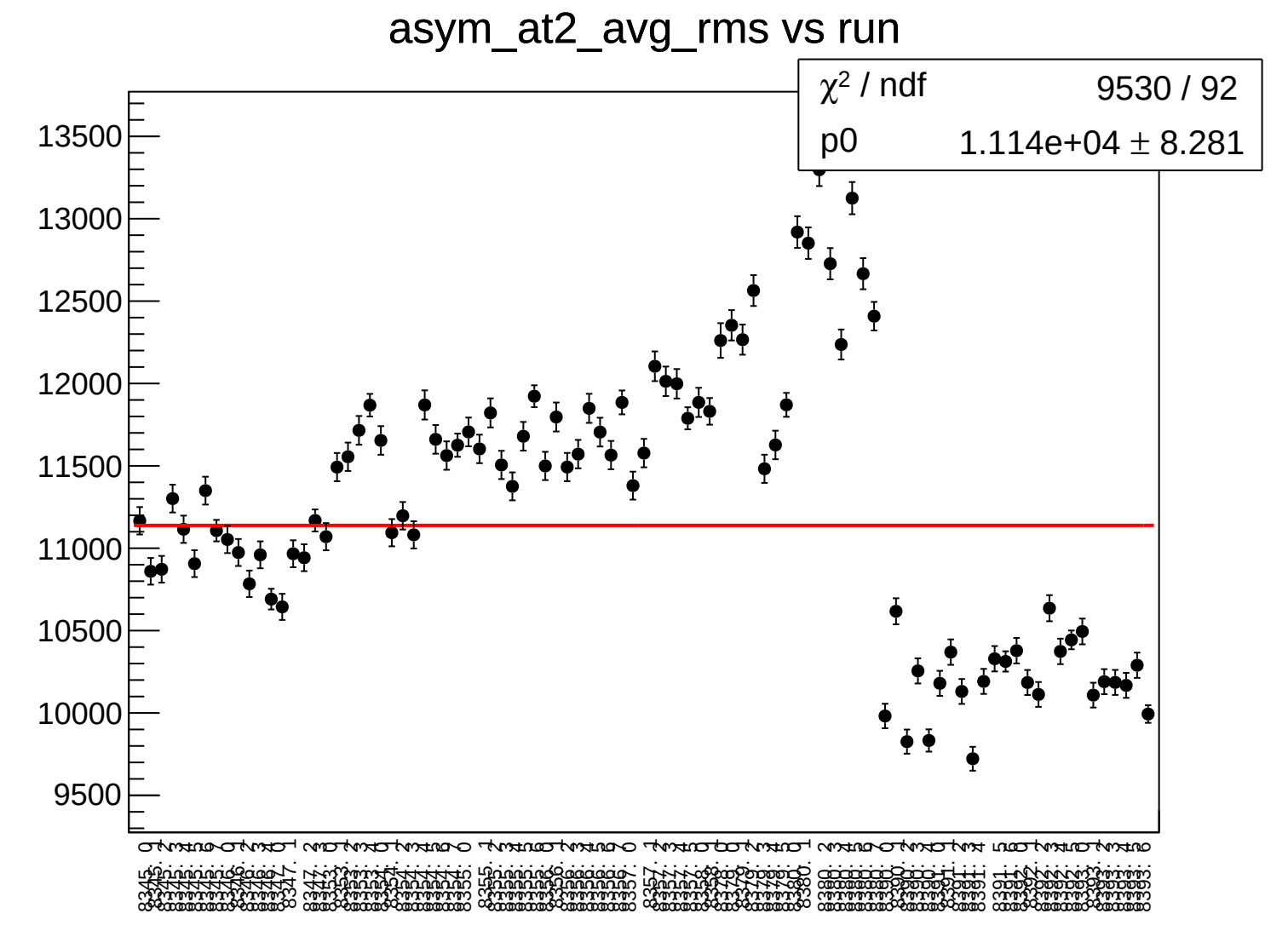

eigen_dit_asym_at2_avg_rms vs run
χ² / ndf 2014 / 92
p0 1889 ± 1.401
2000
1950
1900
1850
1800
1750

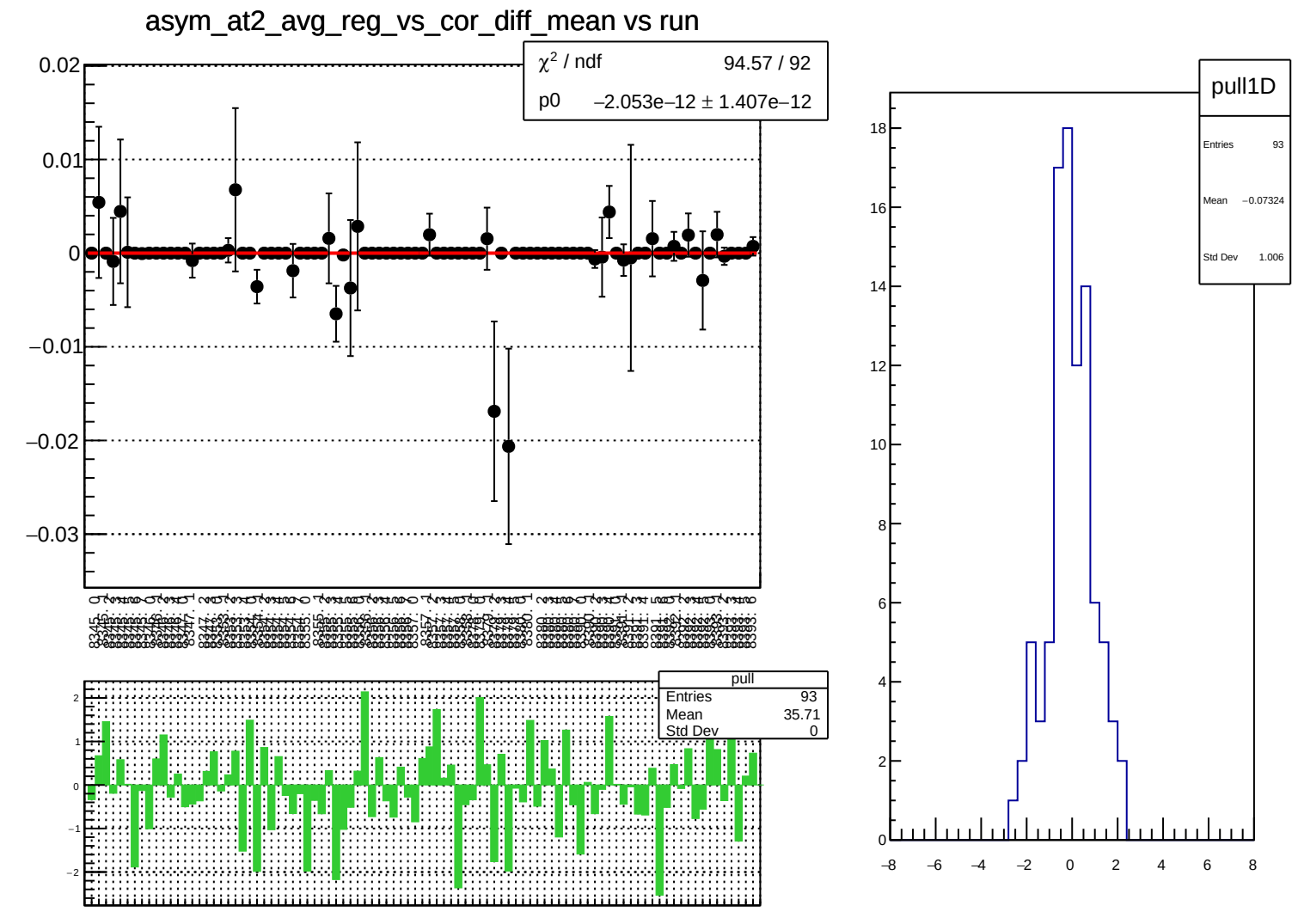

asym_at2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 96.27 / 92
p0 2.191e+04 ± 1.161e+04
400
200
0
−200
−400
pull
Entries 93
Mean −196.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.02116
Std Dev 1.017
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

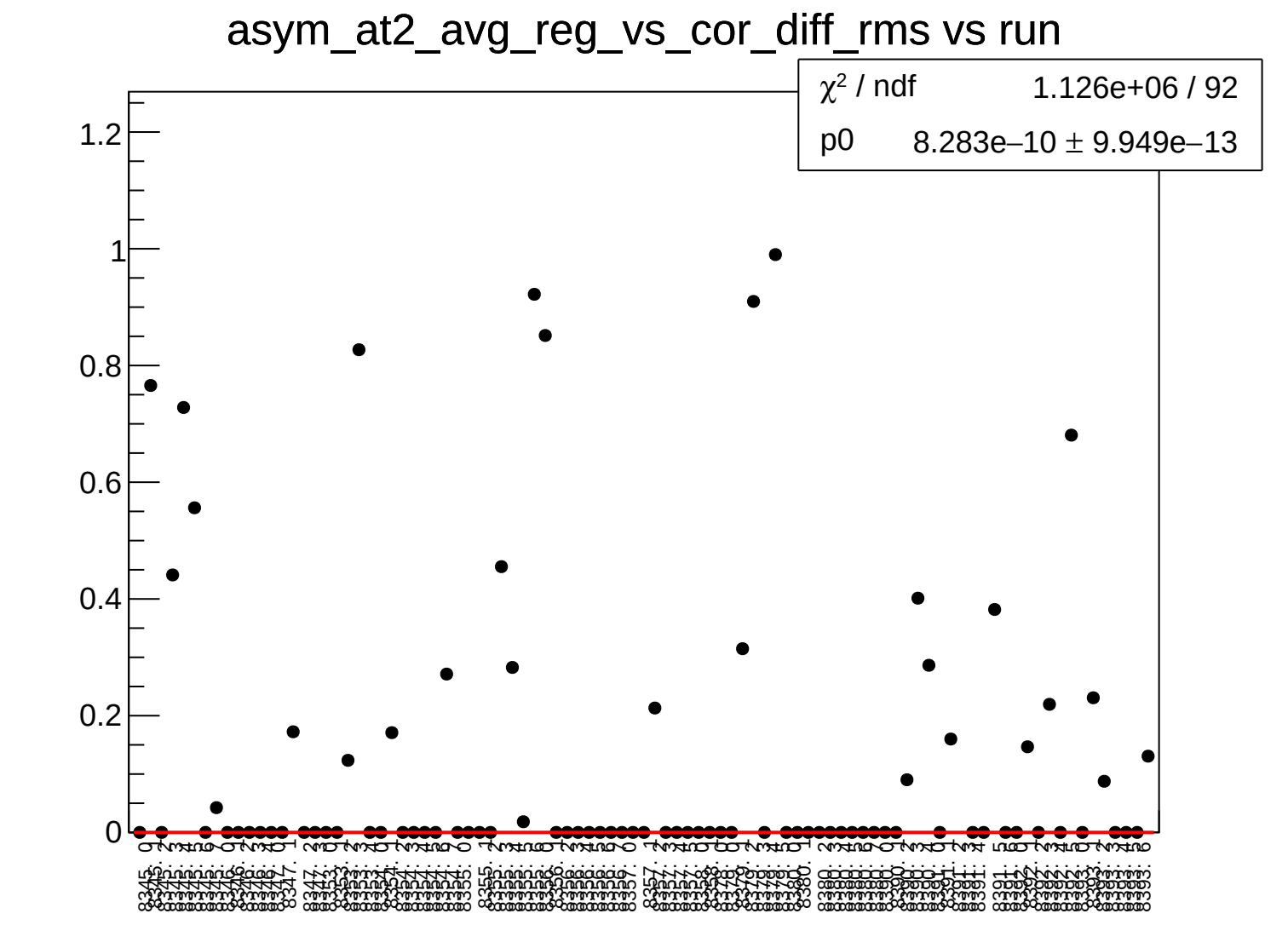

asym_at2_avg_eigen_dit_correction_rms vs run
χ² / ndf 7520 / 92
p0 1.104e+04 ± 8.206
13000
12500
12000
11500
11000
10500
10000
9500

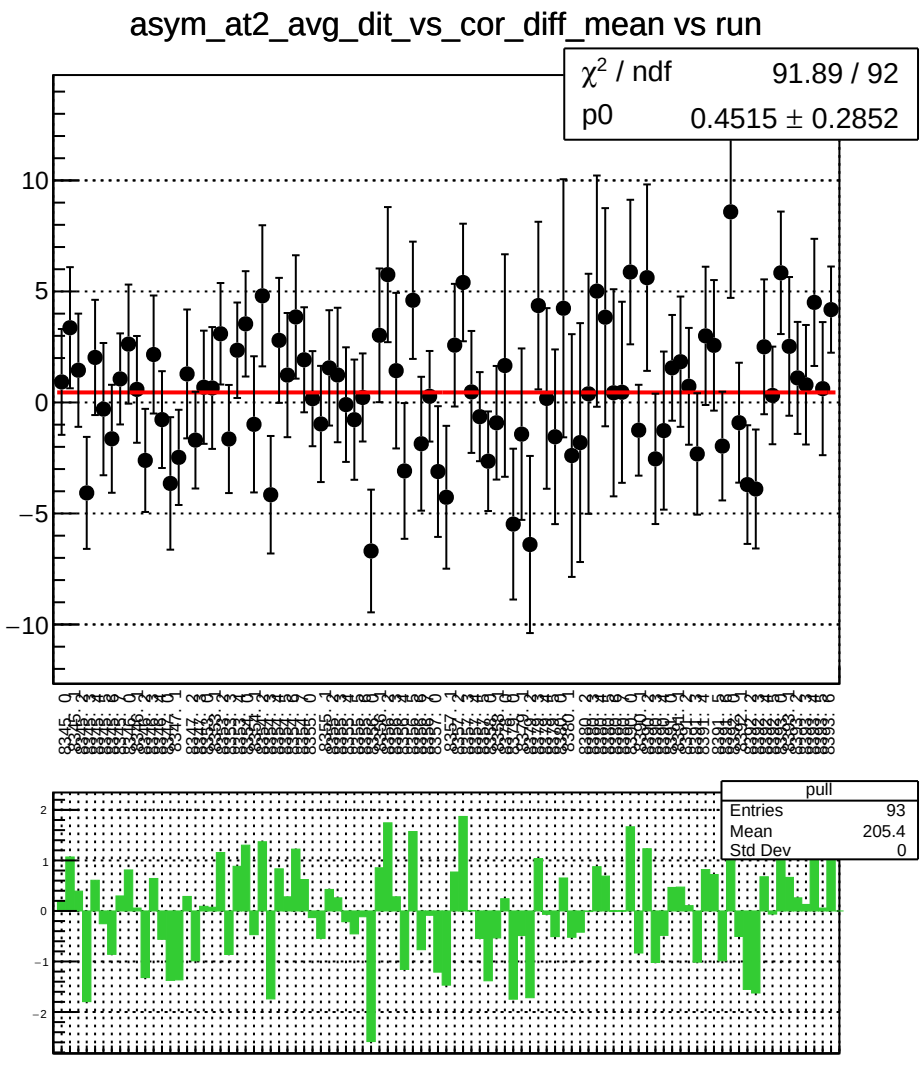

asym_at2_avg_mean vs run
×10^3
χ² / ndf 96.6 / 92
p0 −1.83e+04 ± 1.171e+04
400
200
0
−200
−400
pull
Entries 93
Mean −158.1
Std Dev 0
2
1
0
−1
−2
−3

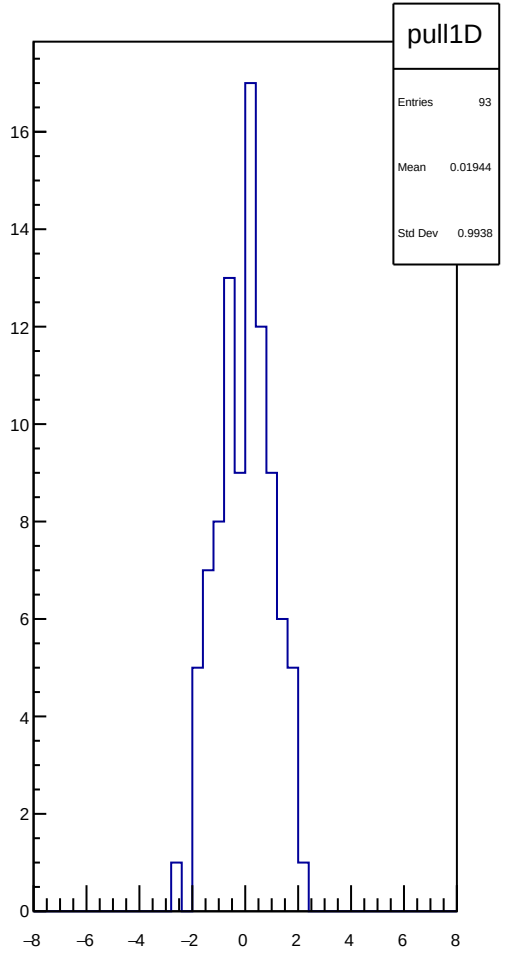

pull1D
Entries 93
Mean 0.0245
Std Dev 1.019
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

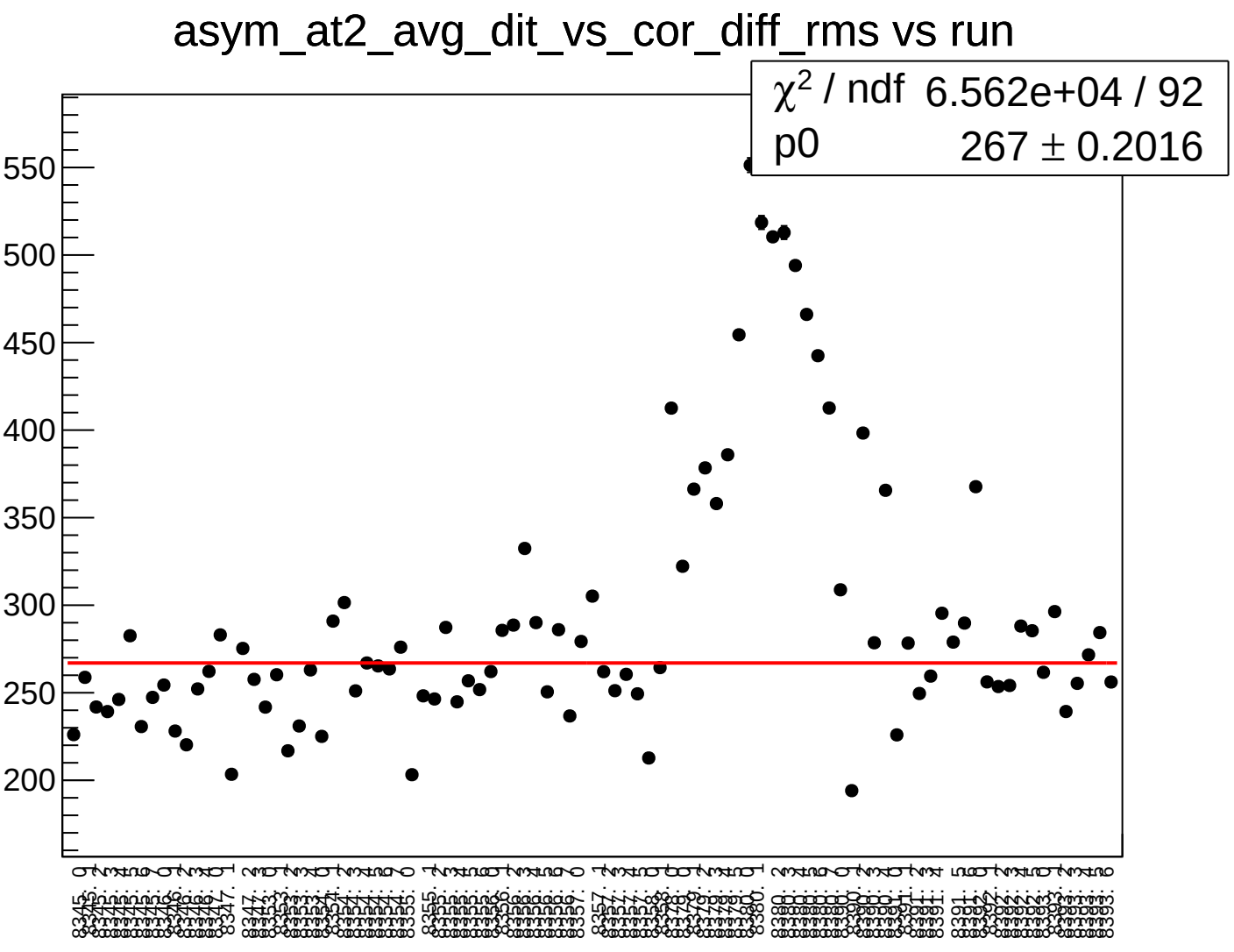

asym_at2_avg_rms vs run
χ² / ndf 9530 / 92
p0 1.114e+04 ± 8.281
13500
13000
12500
12000
11500
11000
10500
10000
9500

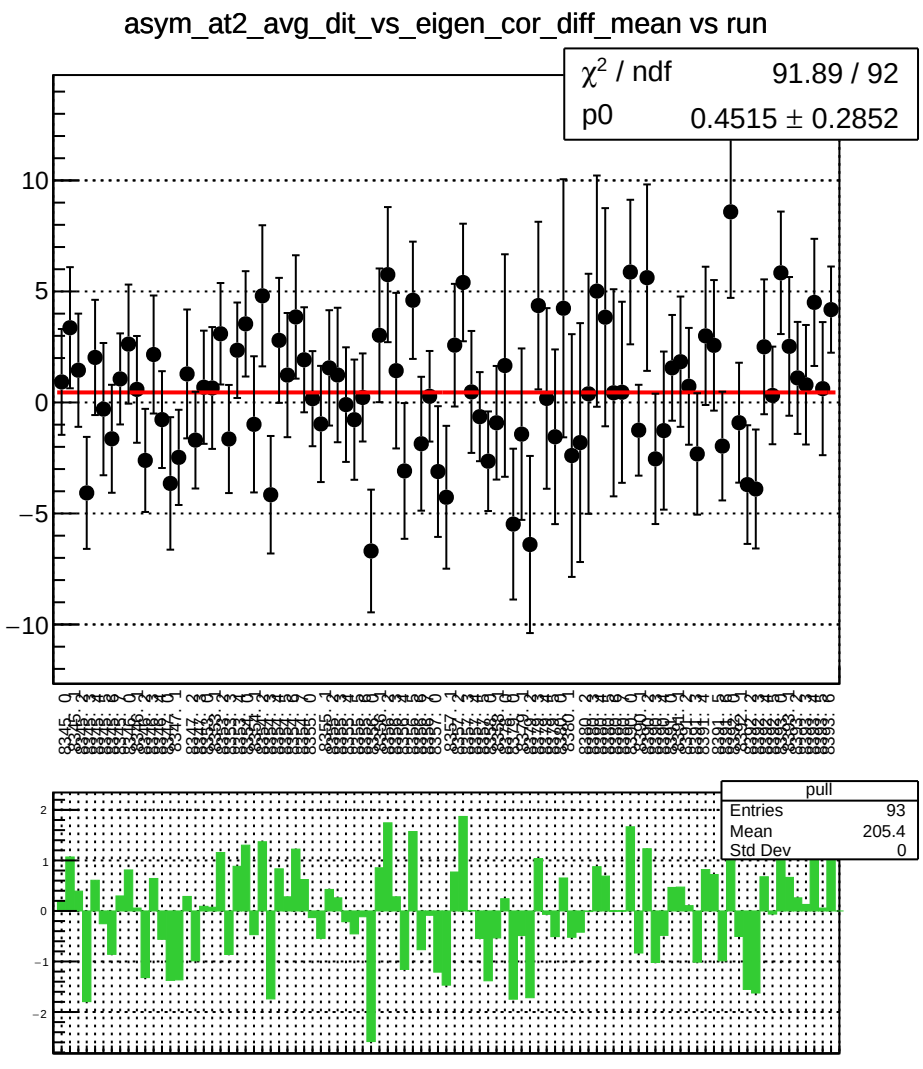

asym_at2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 94.57 / 92
p0 −2.053e−12 ± 1.407e−12
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 93
Mean 35.71
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.07324
Std Dev 1.006
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

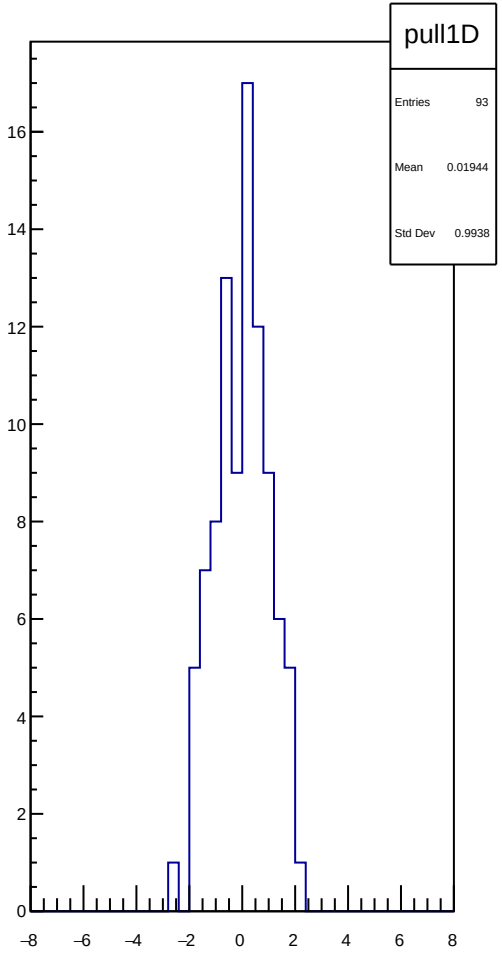

asym_at2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.126e+06 / 92
p0 8.283e−10 ± 9.949e−13
1.2
1
0.8
0.6
0.4
0.2
0

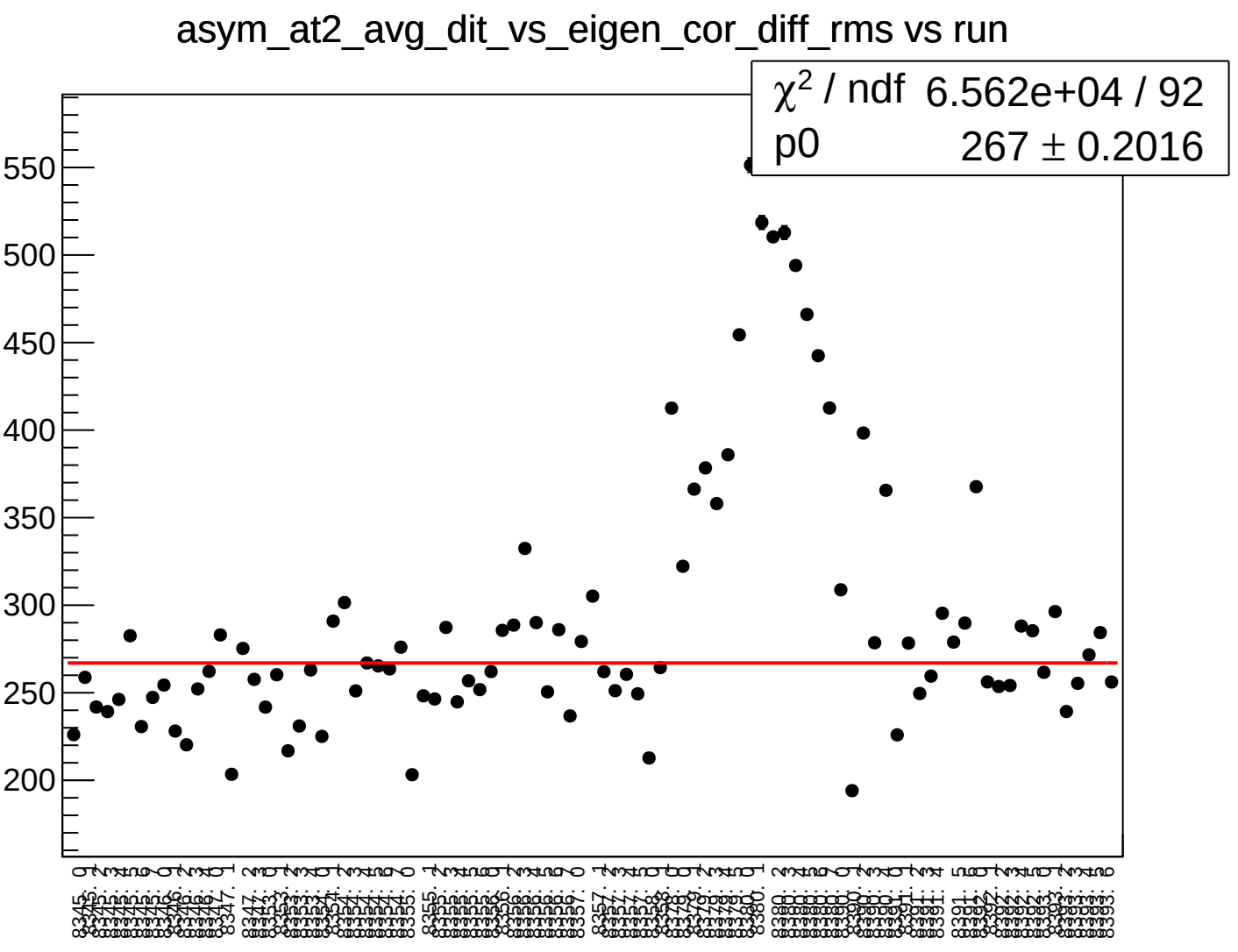

asym_at2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 91.89 / 92
p0 0.4515 ± 0.2852
pull
Entries 93
Mean 205.4
Std Dev 0

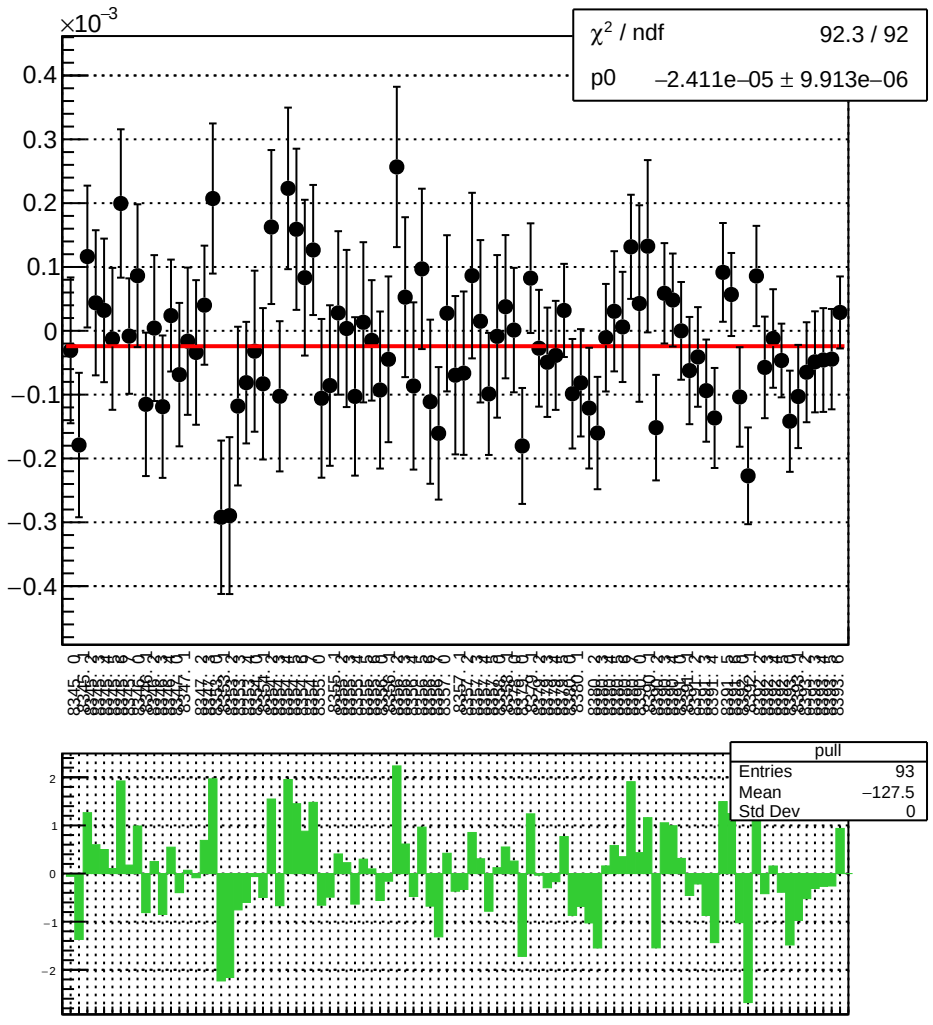

pull1D
Entries 93
Mean 0.01944
Std Dev 0.9938

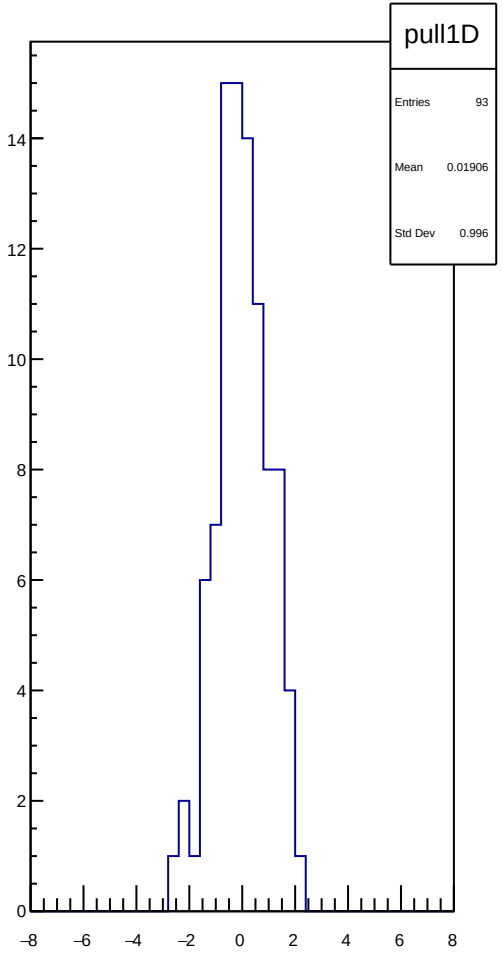

asym_at2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.562e+04 / 92
p0 267 ± 0.2016
550
500
450
400
350
300
250
200

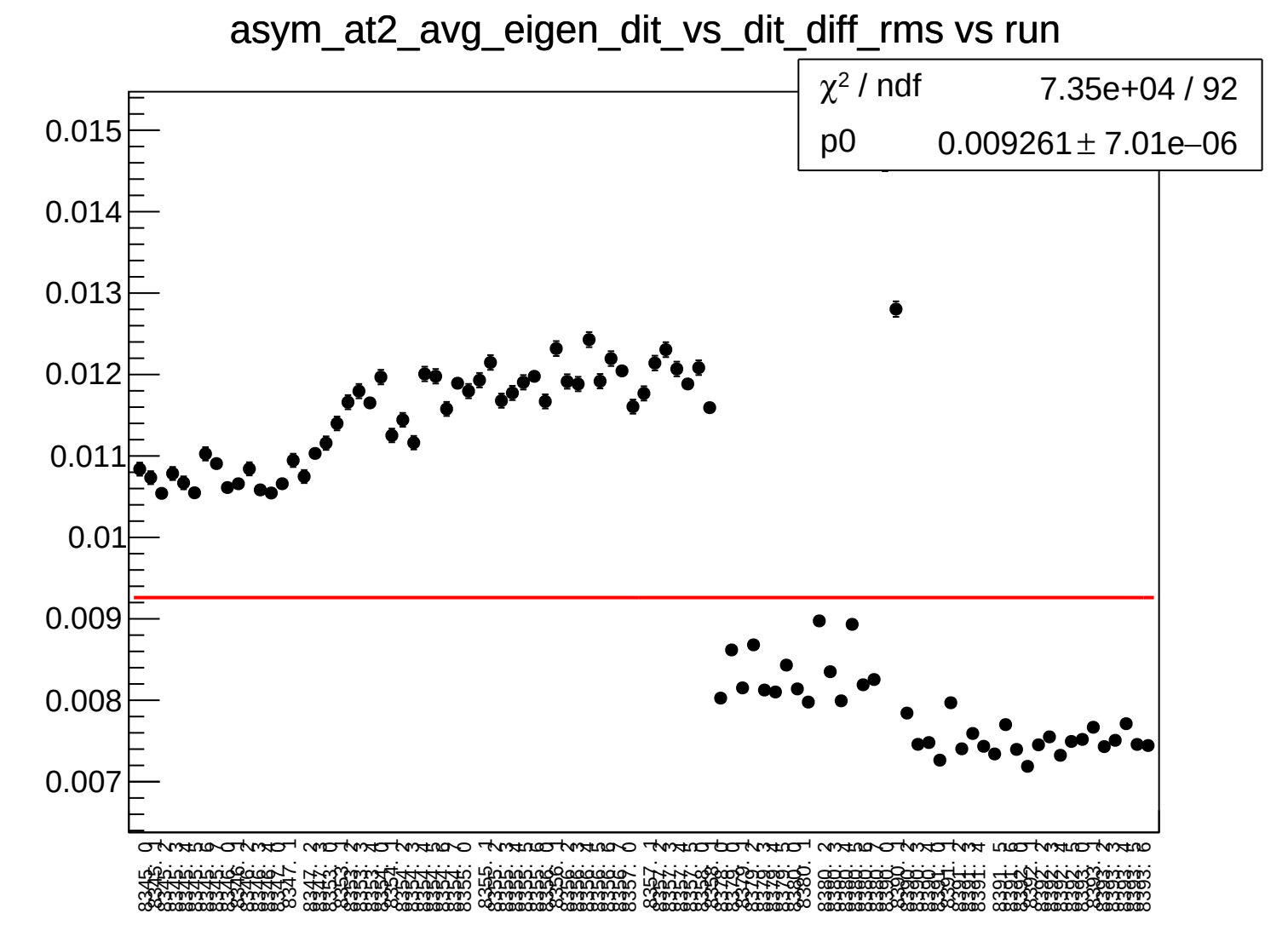

asym_at2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.89 / 92
p0 0.4515 ± 0.2852
pull
Entries 93
Mean 205.4
Std Dev 0

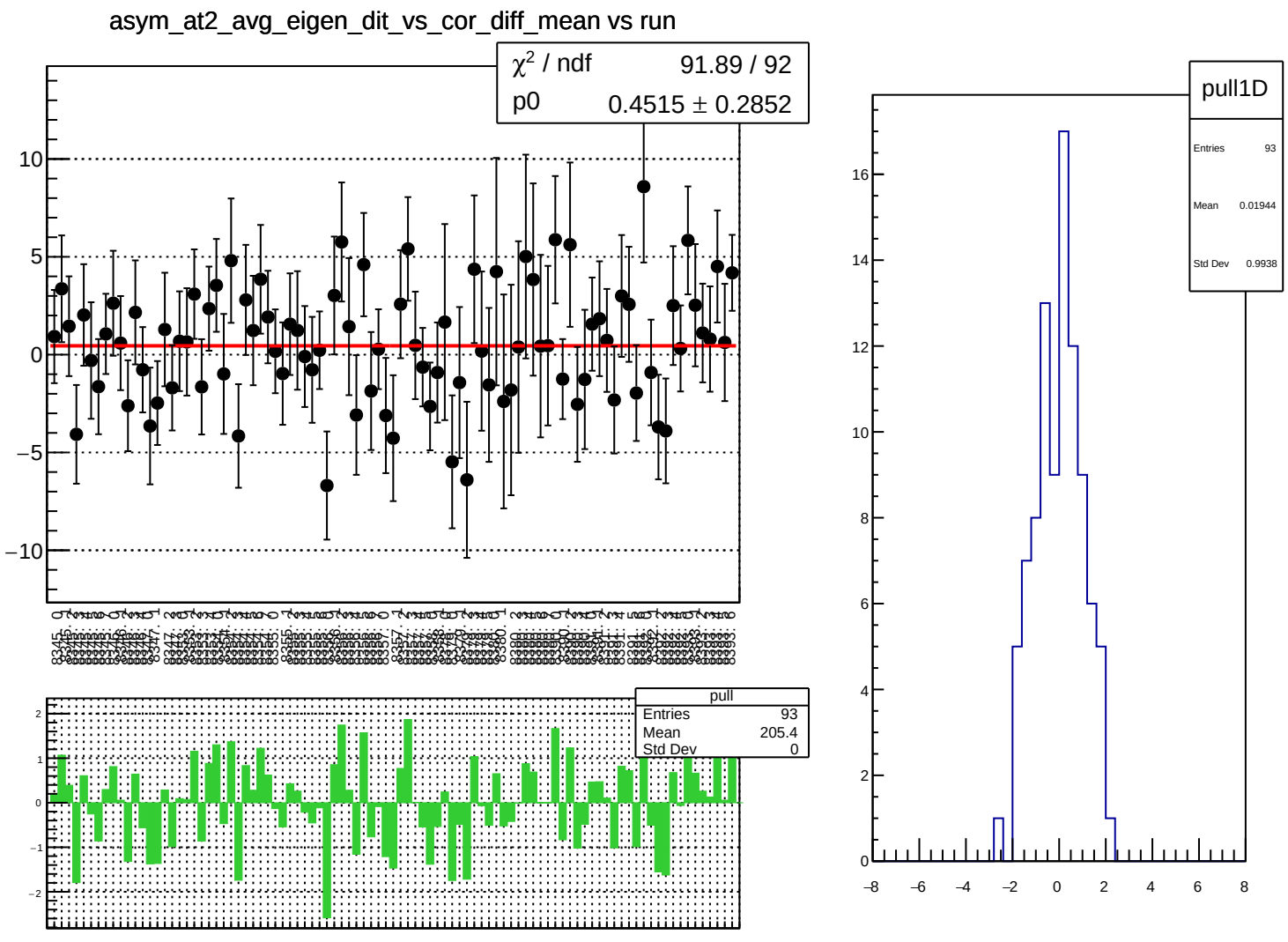

pull1D
Entries 93
Mean 0.01944
Std Dev 0.9938

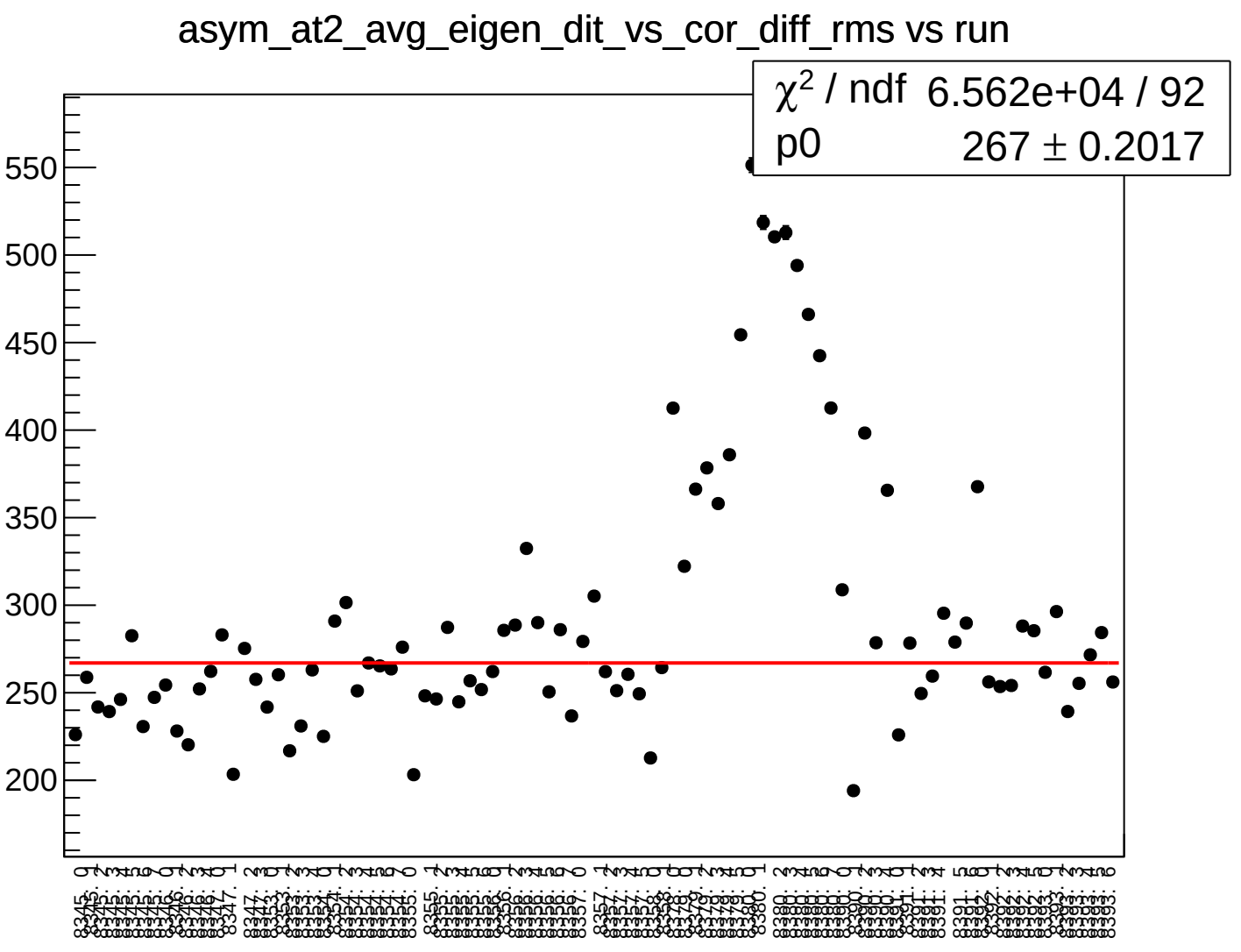

asym_at2_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 6.562e+04 / 92
p0 267 ± 0.2016
550
500
450
400
350
300
250
200

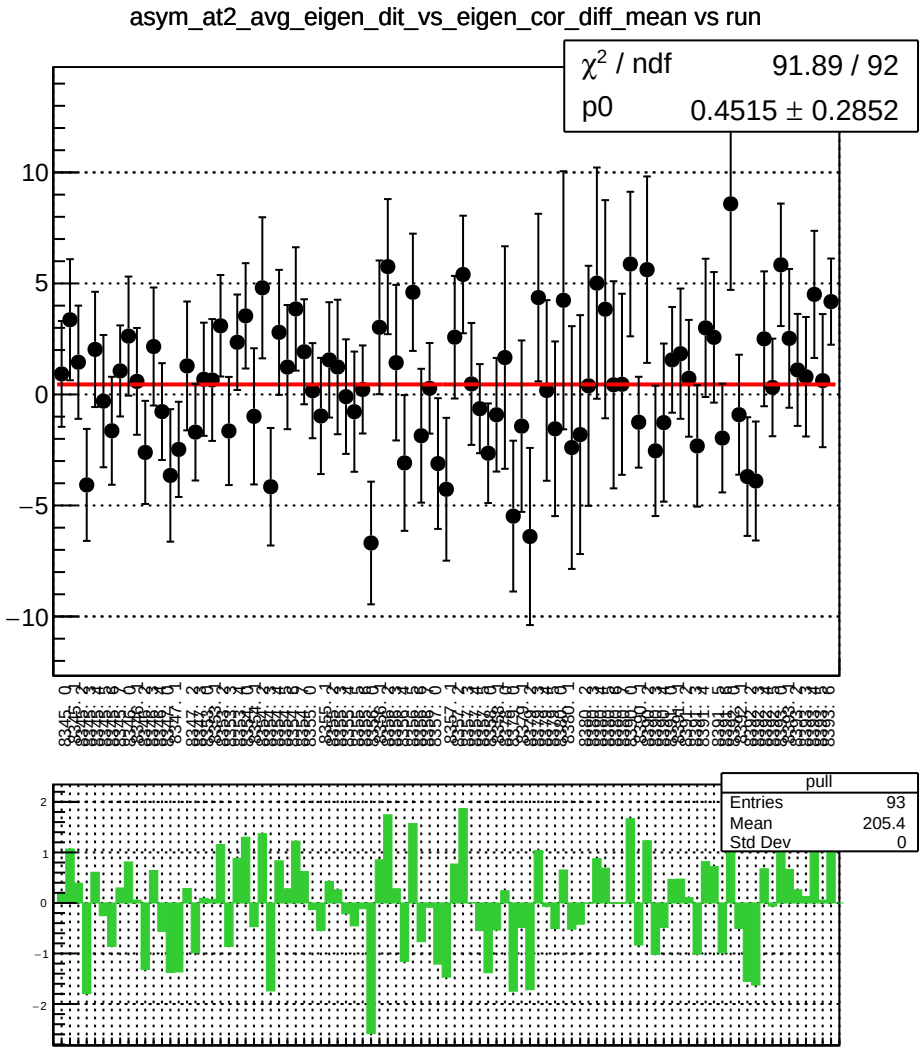

asym_at2_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 92.3 / 92
p0 −2.411e−05 ± 9.913e−06
pull
Entries 93
Mean −127.5
Std Dev 0

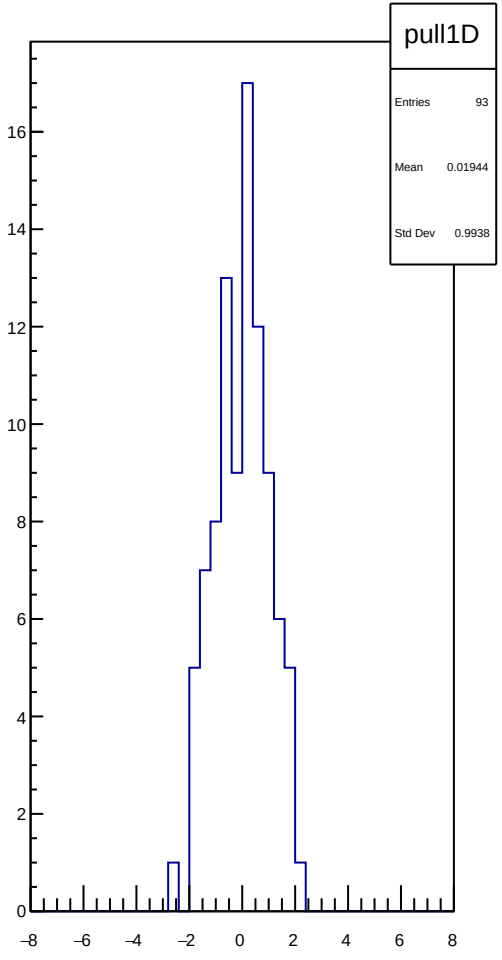

pull1D
Entries 93
Mean 0.01906
Std Dev 0.996

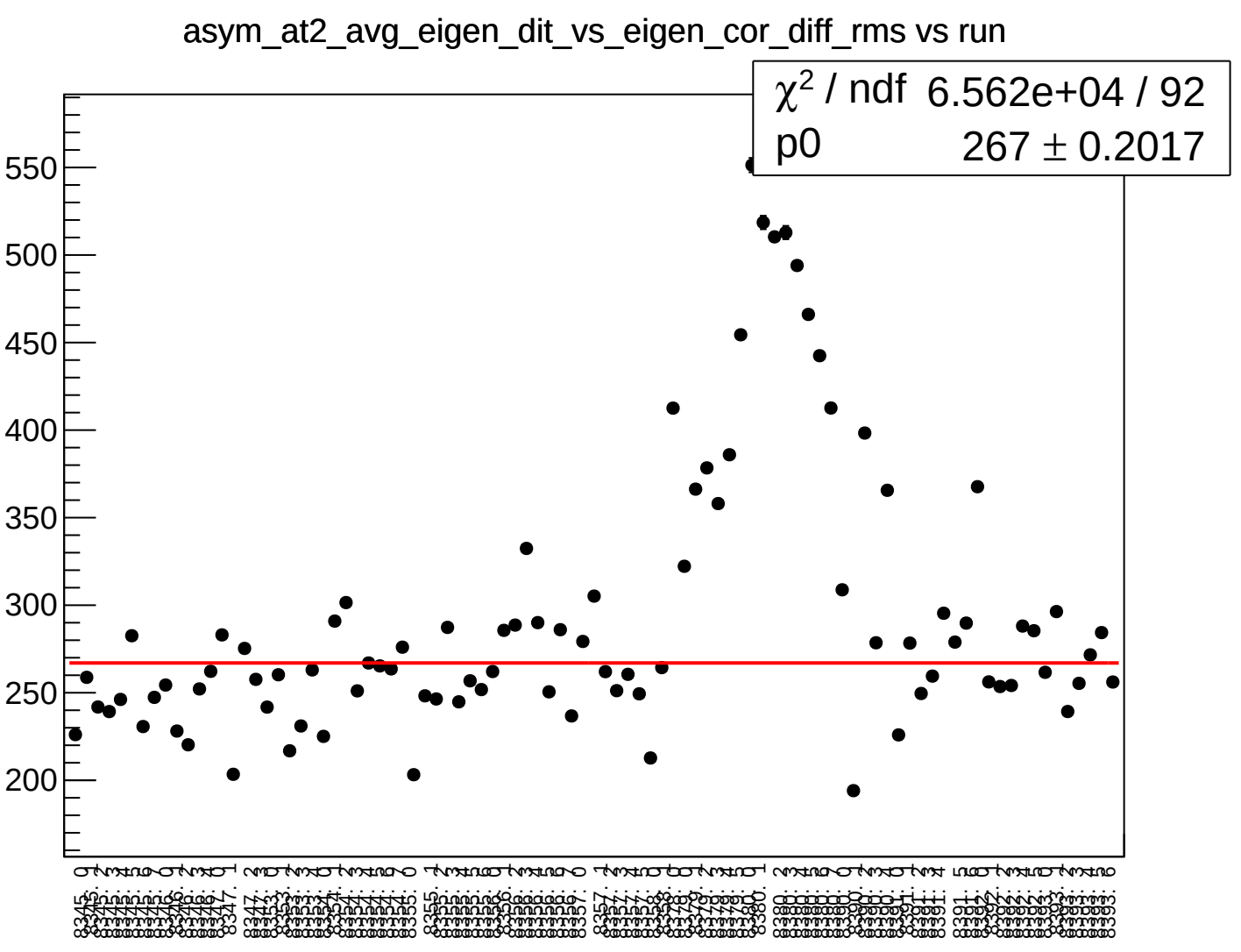

asym_at2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.35e+04 / 92
p0 0.009261 ± 7.01e–06
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007

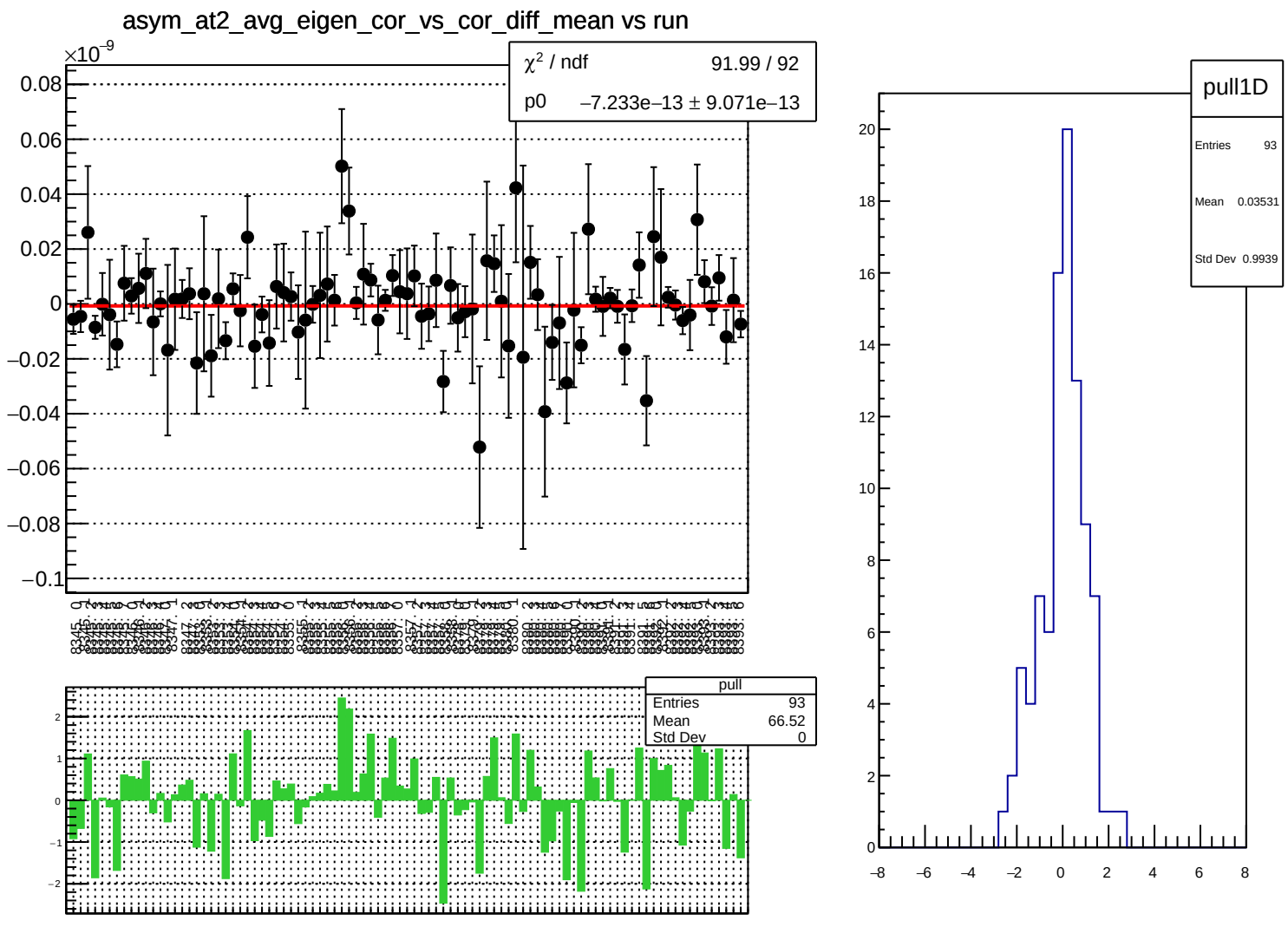

asym_at2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.89 / 92
p0 0.4515 ± 0.2852
pull
Entries 93
Mean 205.4
Std Dev 0
pull1D
Entries 93
Mean 0.01944
Std Dev 0.9938

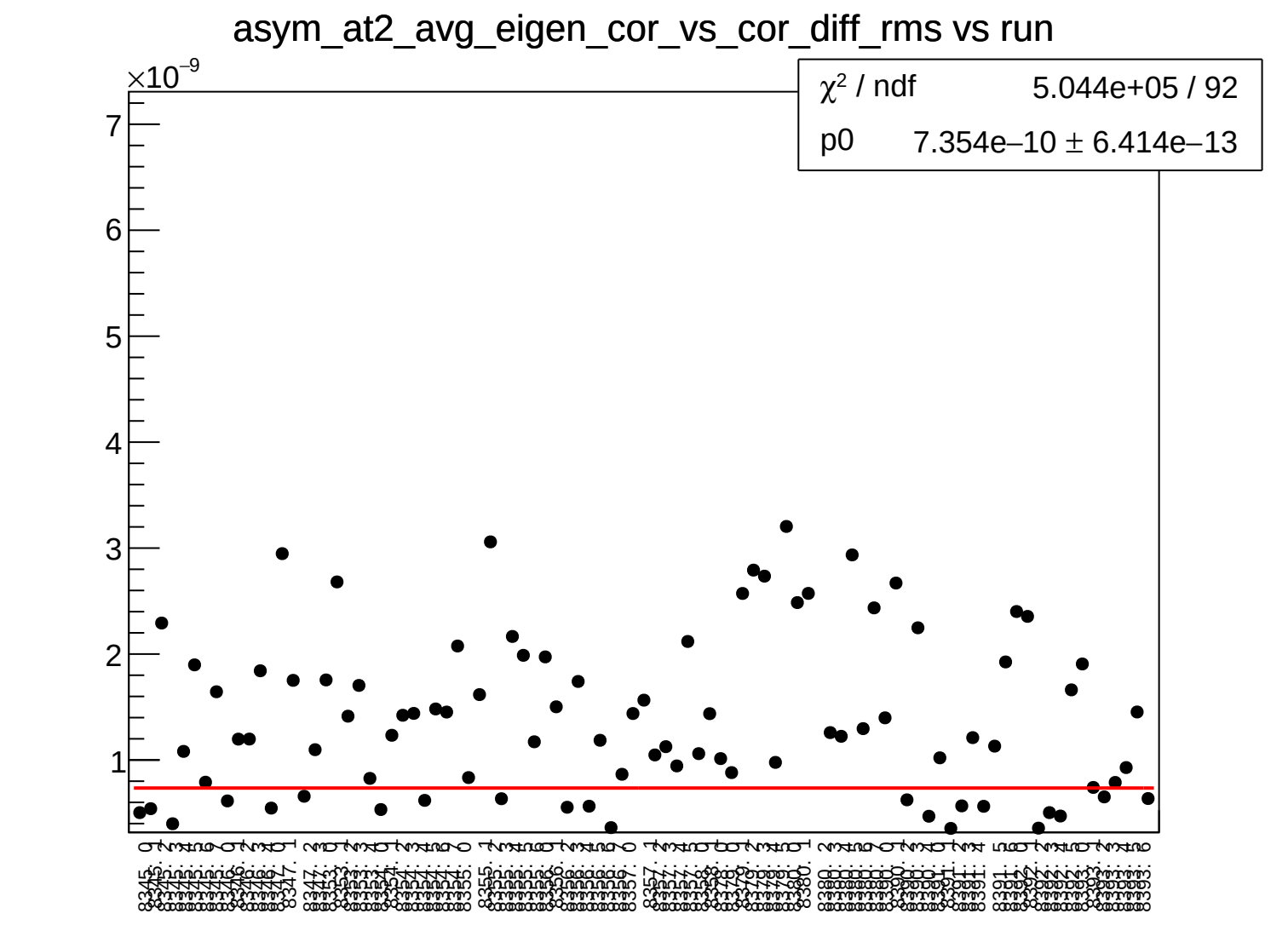

asym_at2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.562e+04 / 92
p0 267 ± 0.2017
550
500
450
400
350
300
250
200

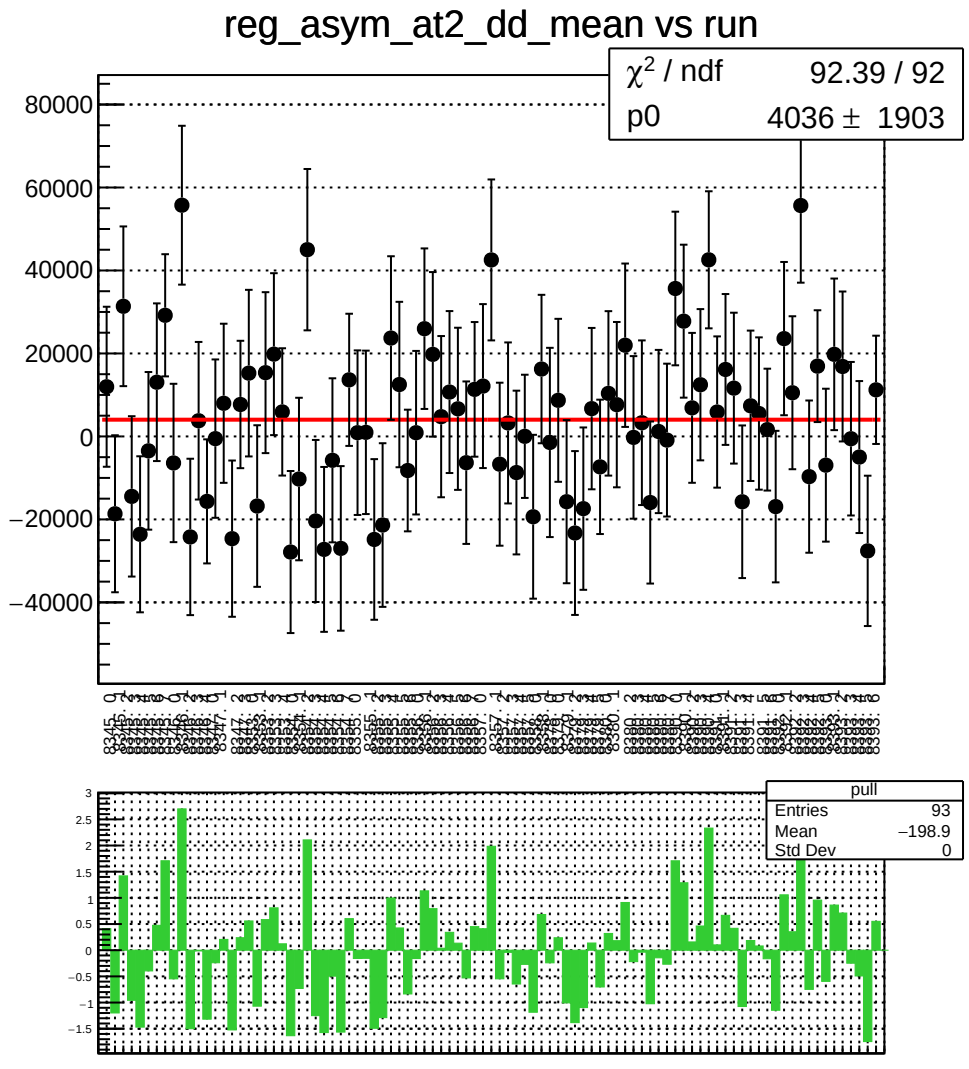

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.89 / 92
p0 0.4515 ± 0.2852
pull
Entries 93
Mean 205.4
Std Dev 0

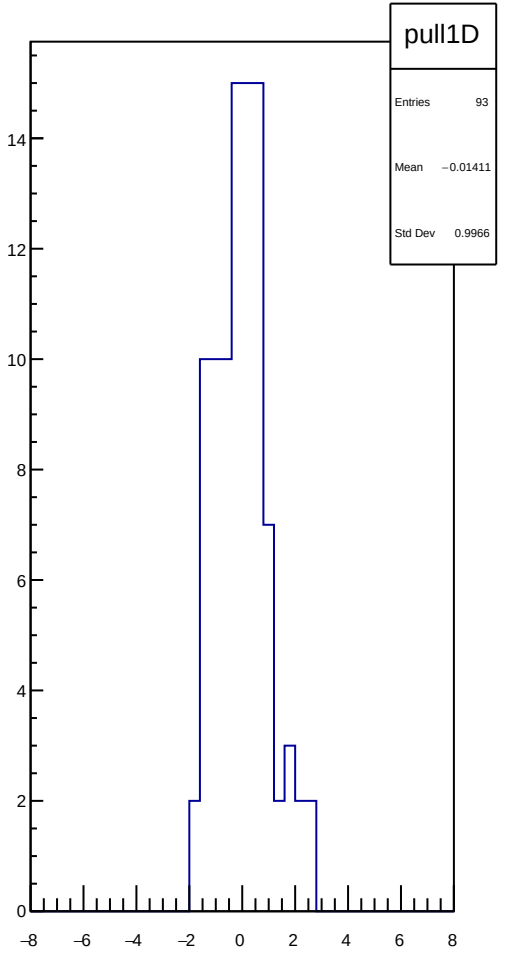

pull1D
Entries 93
Mean 0.01944
Std Dev 0.9938

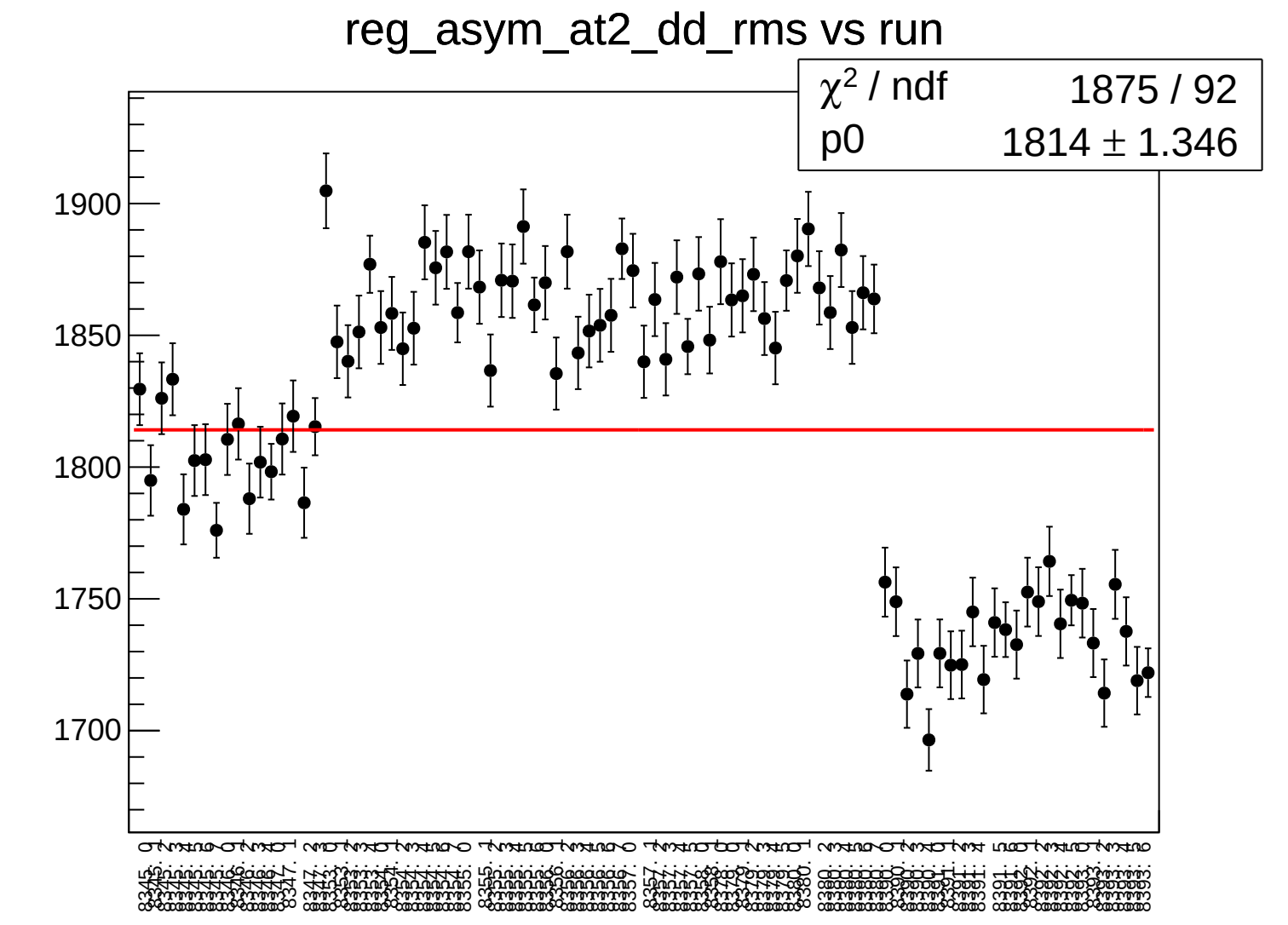

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.562e+04 / 92
p0 267 ± 0.2017
550
500
450
400
350
300
250
200

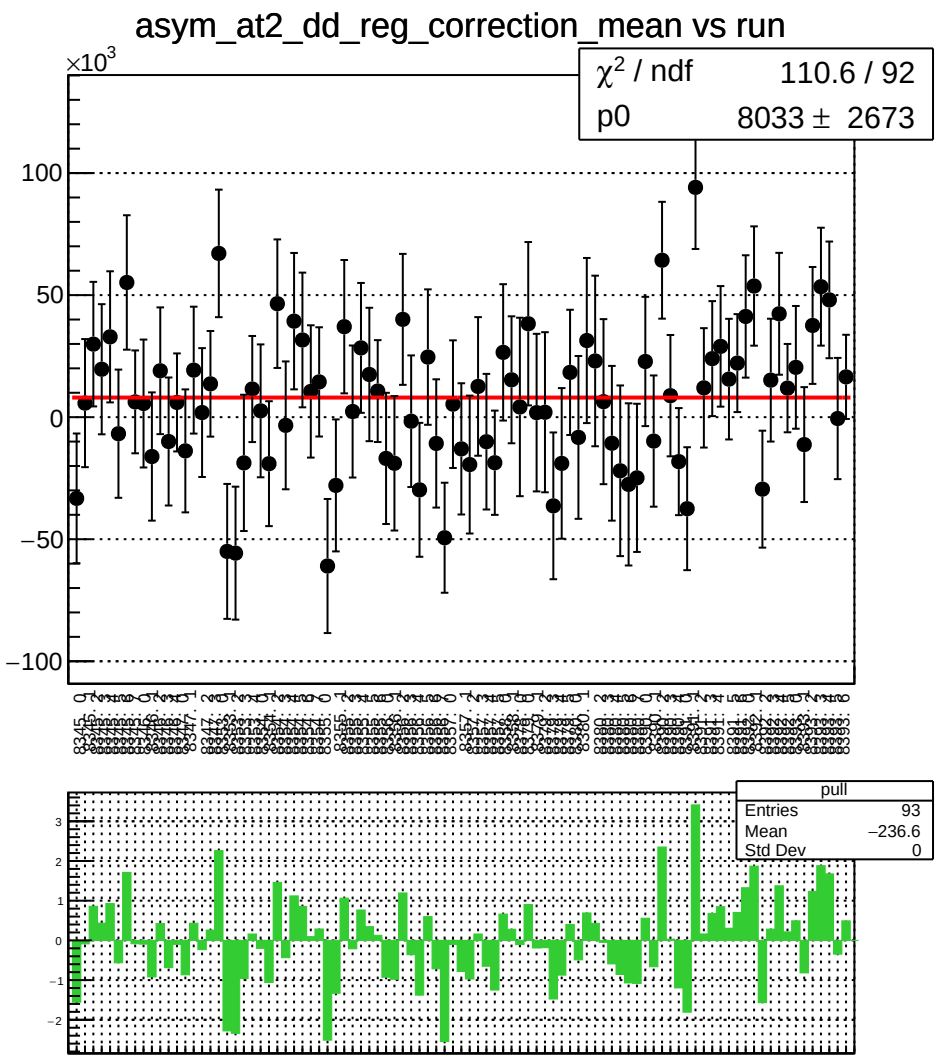

asym_at2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 91.99 / 92
p0 −7.233e−13 ± 9.071e−13
pull
Entries 93
Mean 66.52
Std Dev 0
pull1D
Entries 93
Mean 0.03531
Std Dev 0.9939

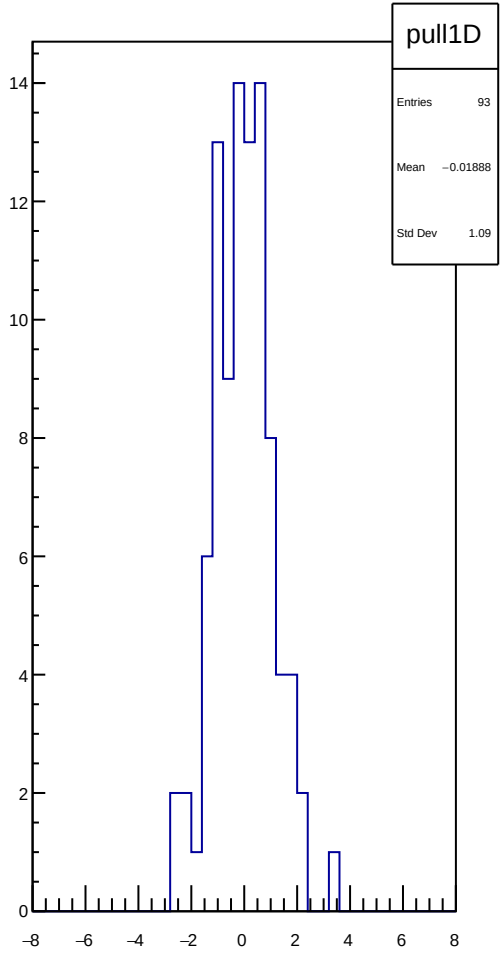

asym_at2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.044e+05 / 92
p0 7.354e−10 ± 6.414e−13
7
6
5
4
3
2
1

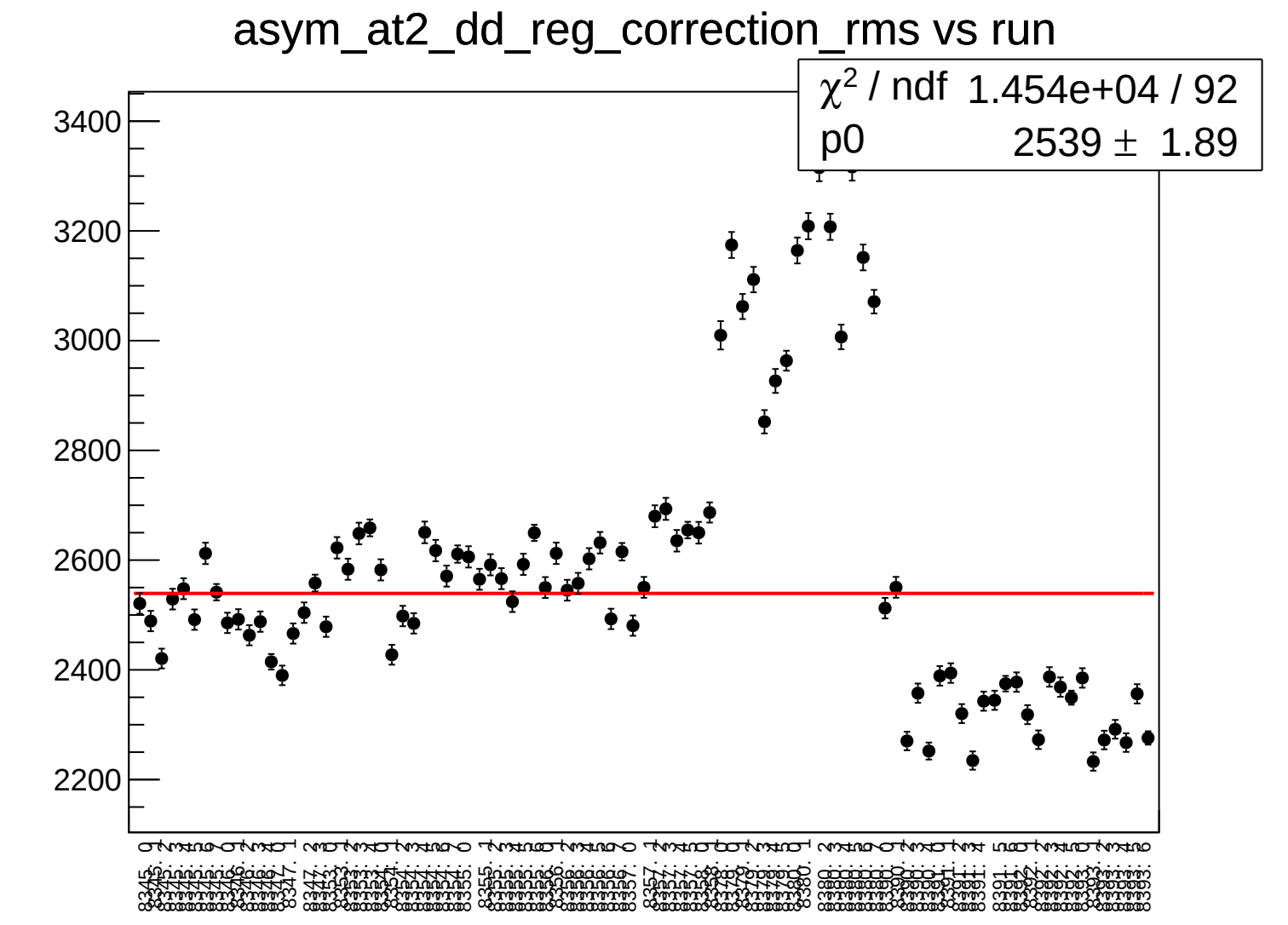

reg_asym_at2_dd_mean vs run
χ² / ndf 92.39 / 92
p0 4036 ± 1903
80000
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −198.9
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

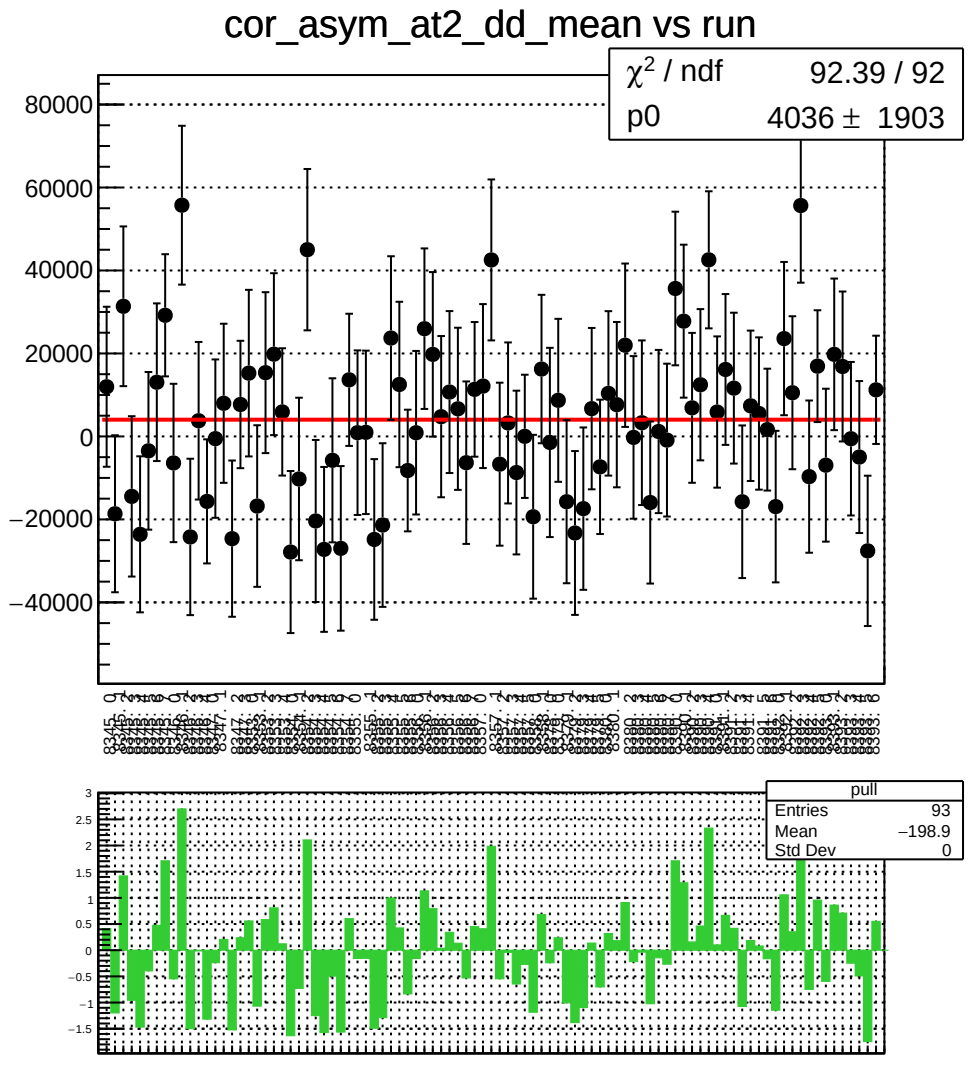

pull1D
Entries 93
Mean −0.01411
Std Dev 0.9966
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

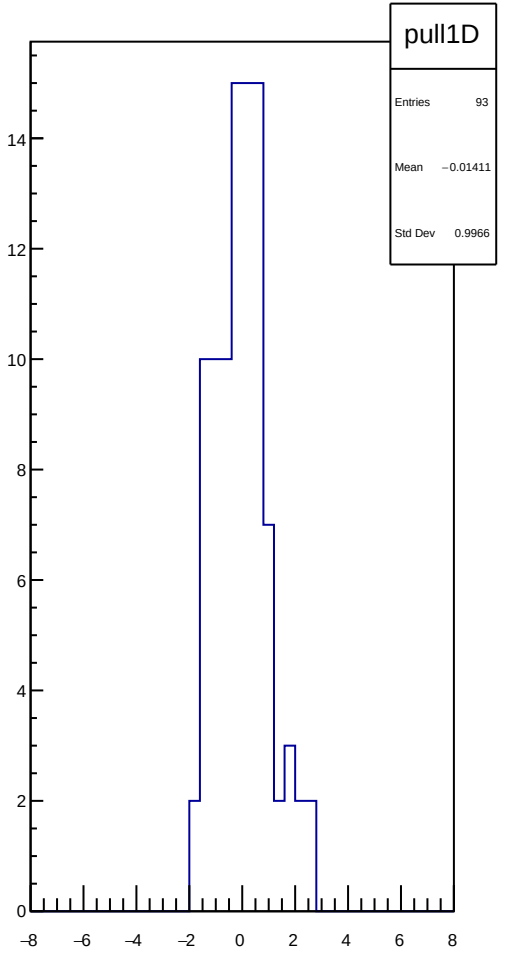

reg_asym_at2_dd_rms vs run
χ² / ndf 1875 / 92
p0 1814 ± 1.346
1900
1850
1800
1750
1700

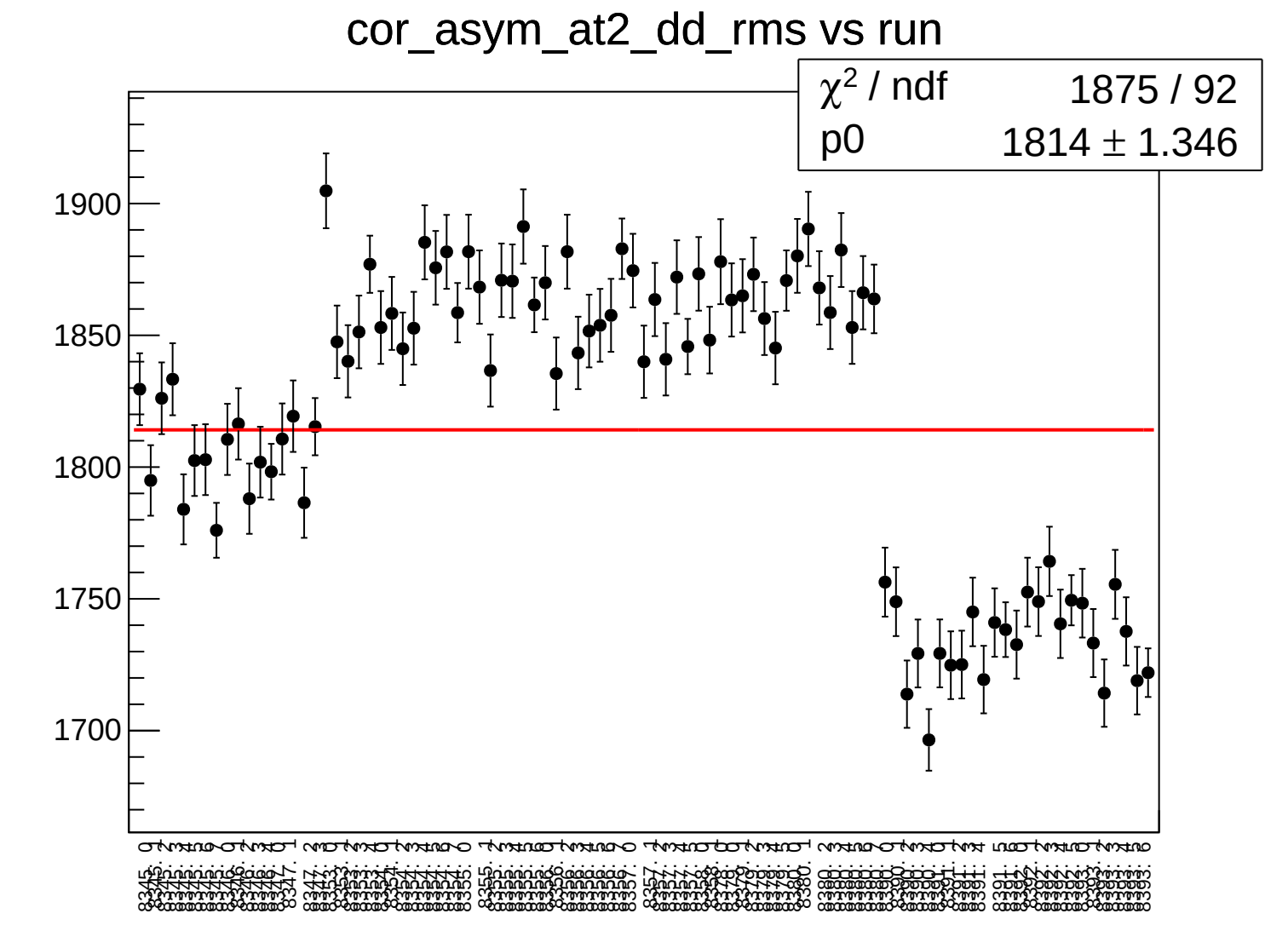

asym_at2_dd_reg_correction_mean vs run
χ² / ndf 110.6 / 92
p0 8033 ± 2673
×10³
100
50
0
−50
−100
pull
Entries 93
Mean −236.6
Std Dev 0
3
2
1
0
−1
−2

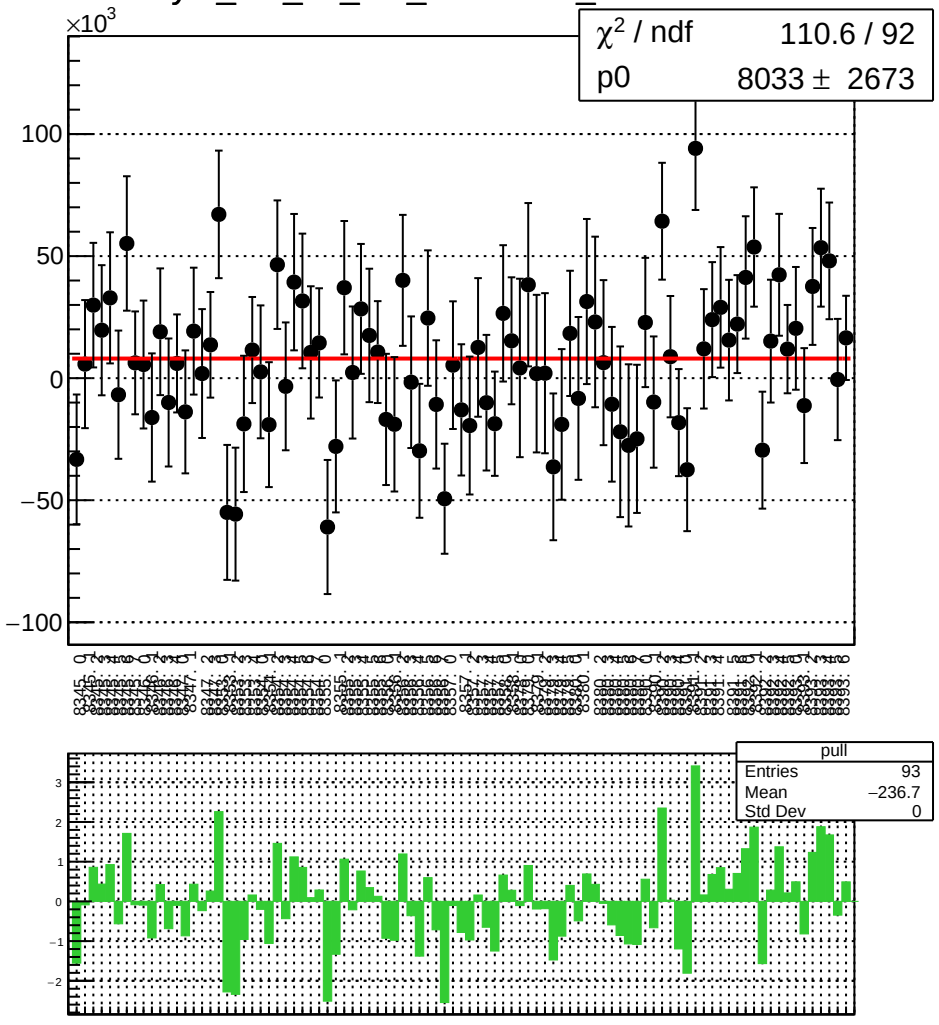

pull1D
Entries 93
Mean −0.01888
Std Dev 1.09
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

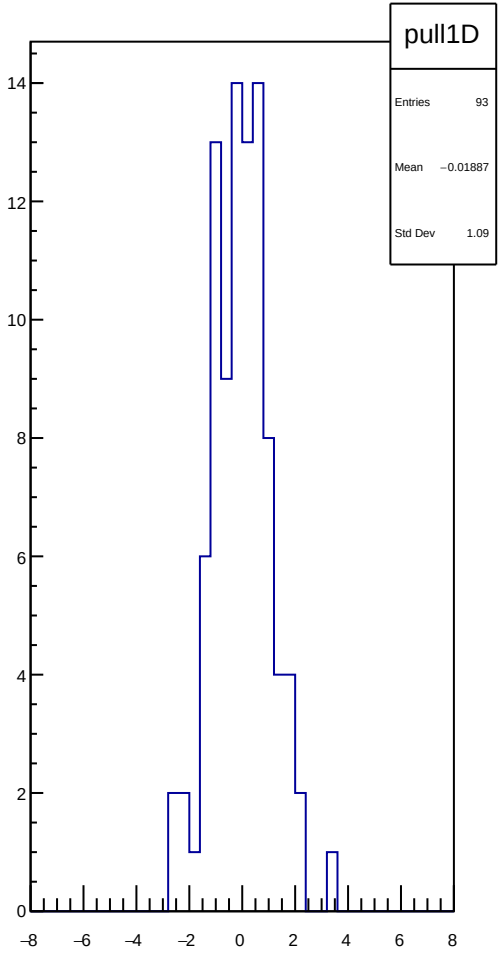

asym_at2_dd_reg_correction_rms vs run
χ² / ndf 1.454e+04 / 92
p0 2539 ± 1.89
3400
3200
3000
2800
2600
2400
2200

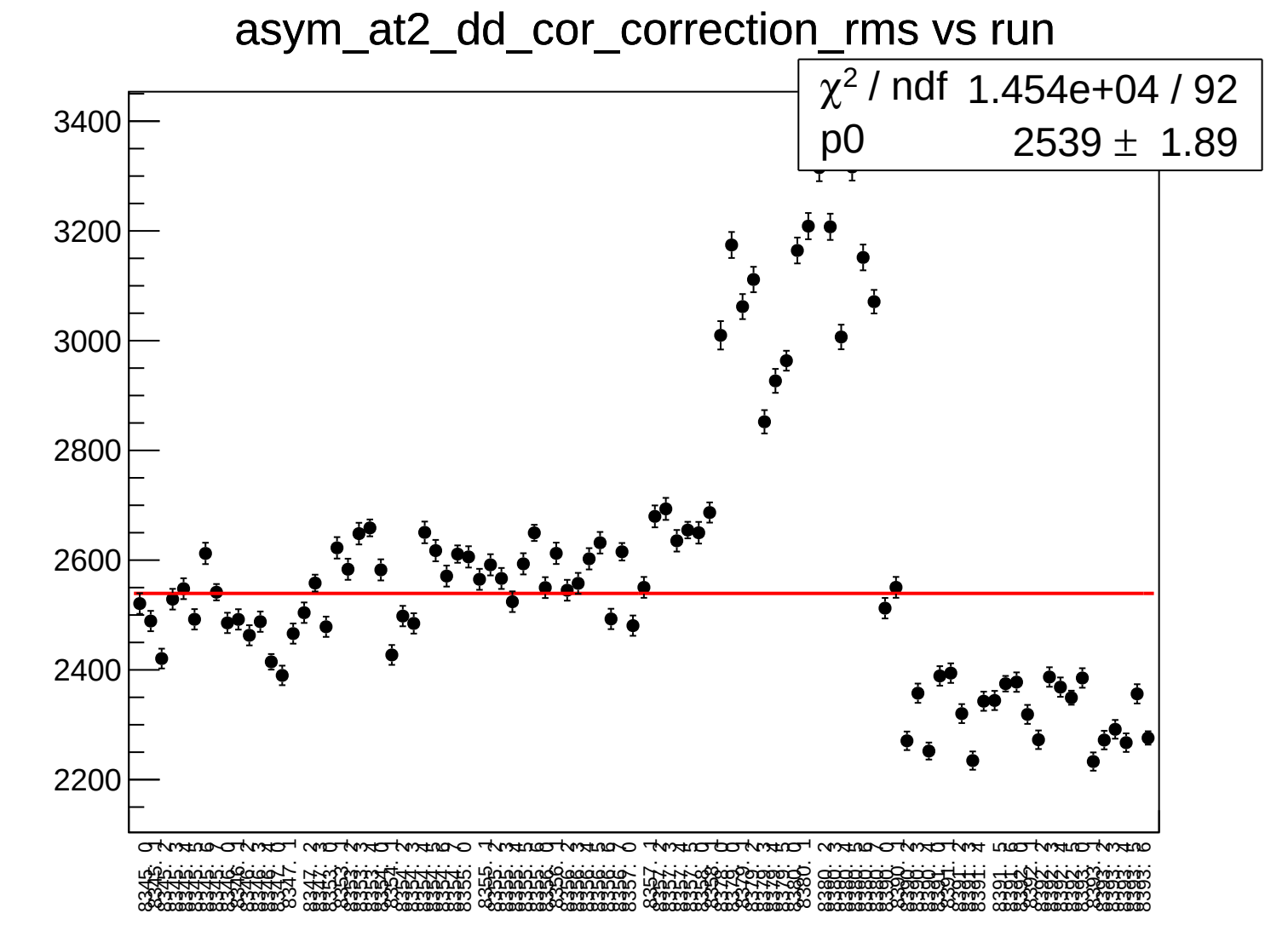

cor_asym_at2_dd_mean vs run
χ² / ndf 92.39 / 92
p0 4036 ± 1903
80000
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −198.9
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

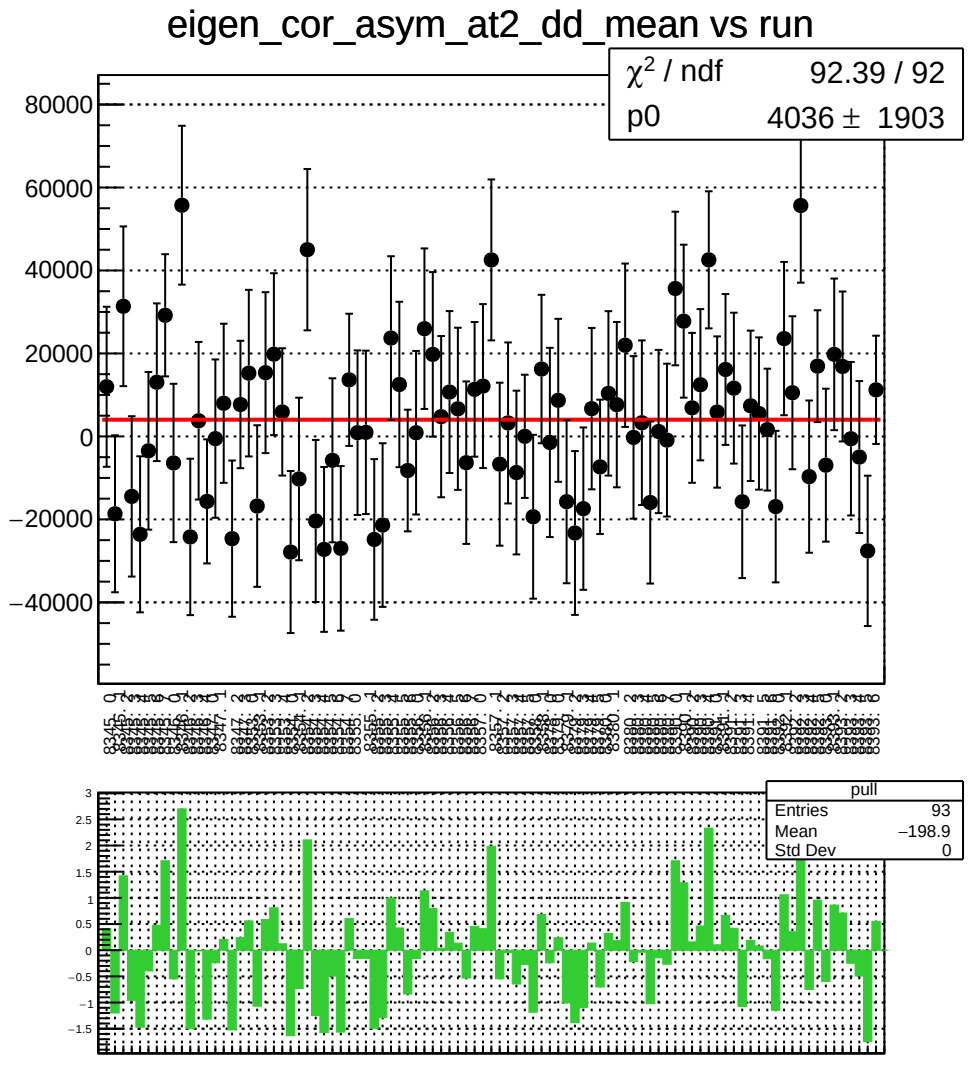

pull1D
Entries 93
Mean −0.01411
Std Dev 0.9966
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

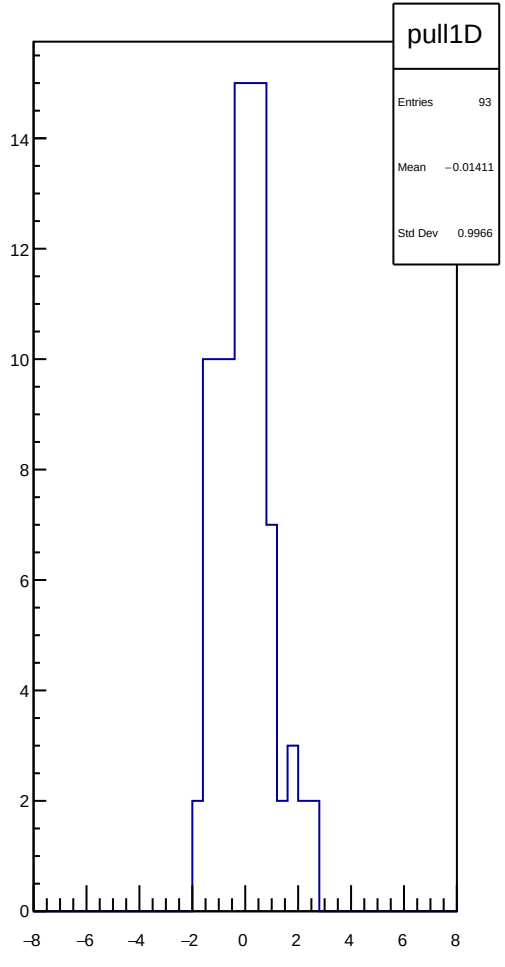

cor_asym_at2_dd_rms vs run
χ² / ndf 1875 / 92
p0 1814 ± 1.346
1900
1850
1800
1750
1700

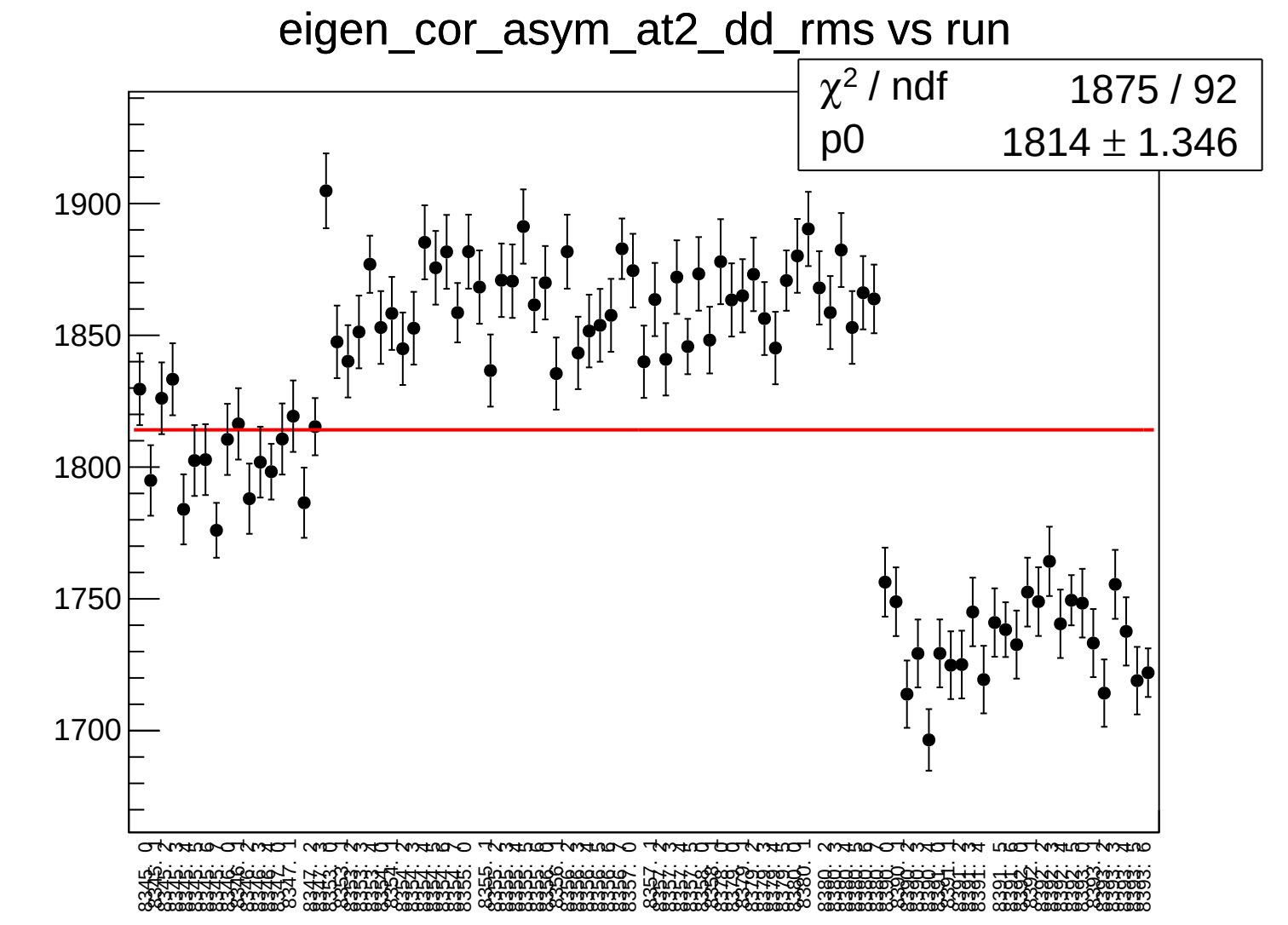

asym_at2_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 110.6 / 92
p0 8033 ± 2673
100
50
0
−50
−100
pull
Entries 93
Mean −236.7
Std Dev 0
3
2
1
0
−1
−2

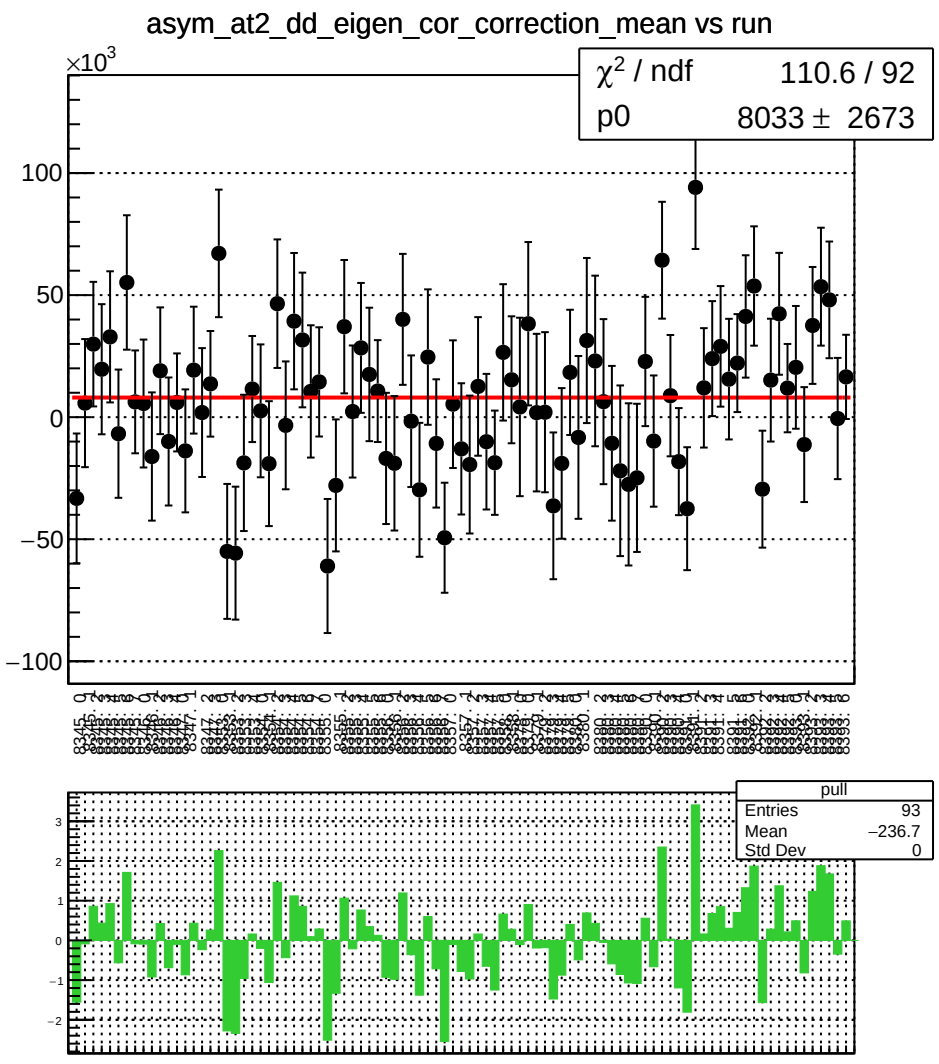

pull1D
Entries 93
Mean −0.01887
Std Dev 1.09
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

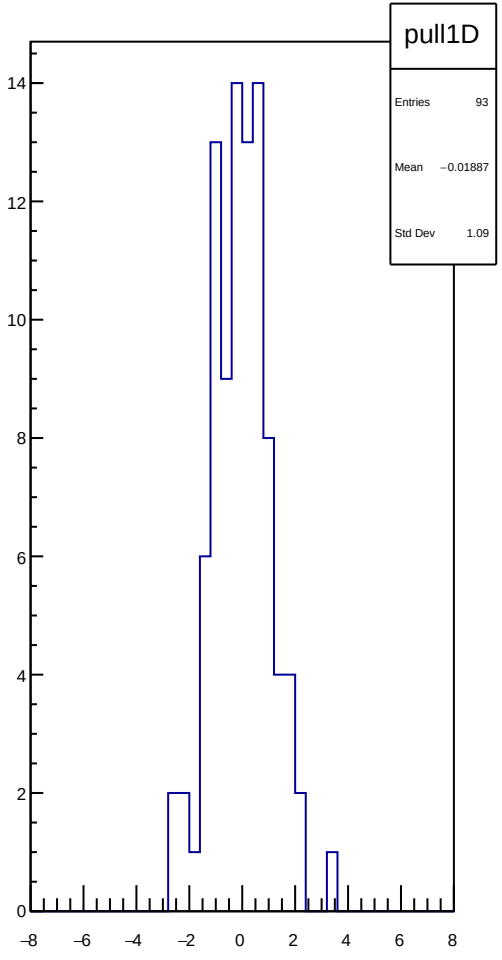

asym_at2_dd_cor_correction_rms vs run
χ² / ndf 1.454e+04 / 92
p0 2539 ± 1.89
3400
3200
3000
2800
2600
2400
2200

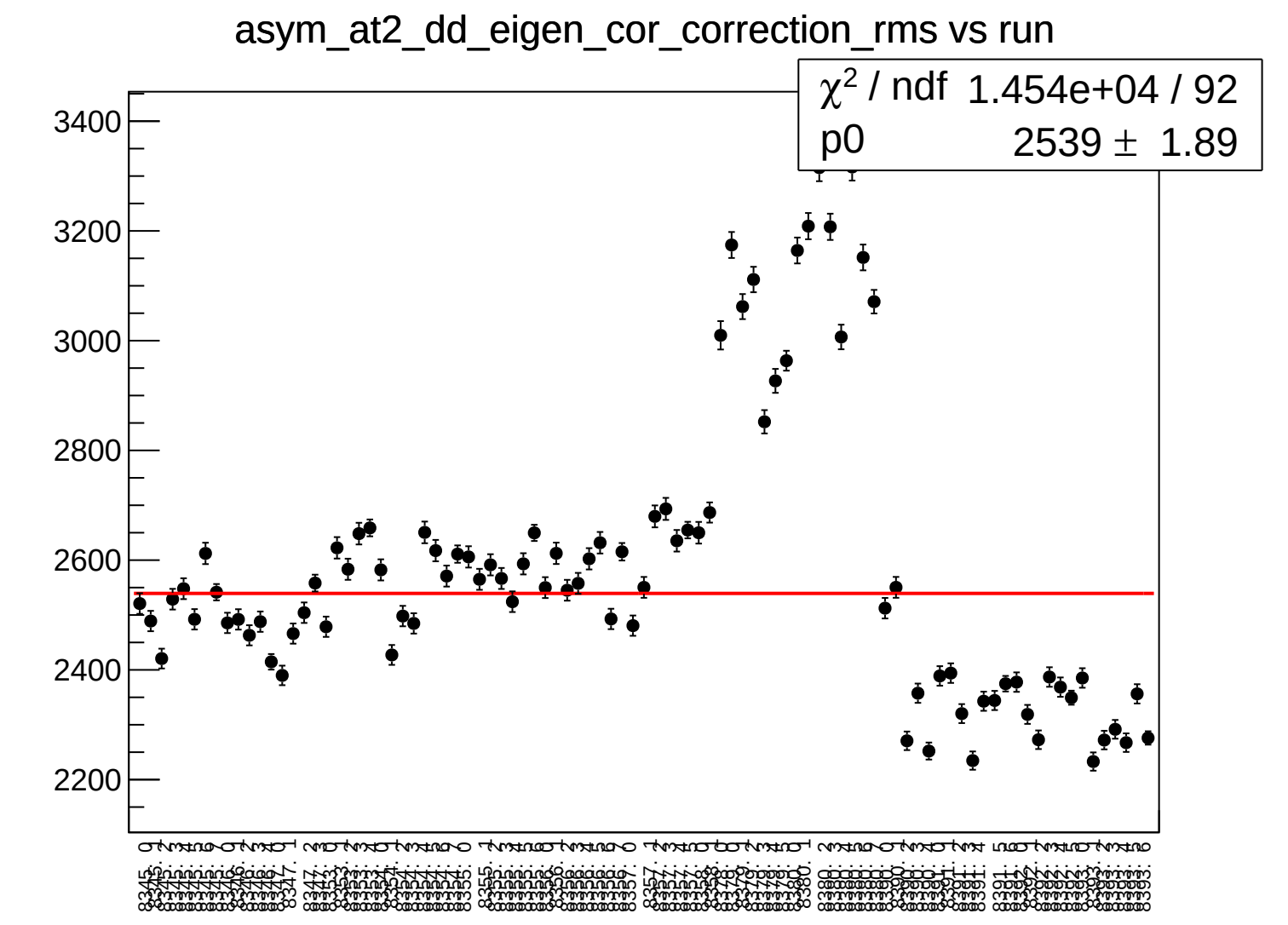

eigen_cor_asym_at2_dd_mean vs run
χ² / ndf 92.39 / 92
p0 4036 ± 1903
80000
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −198.9
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

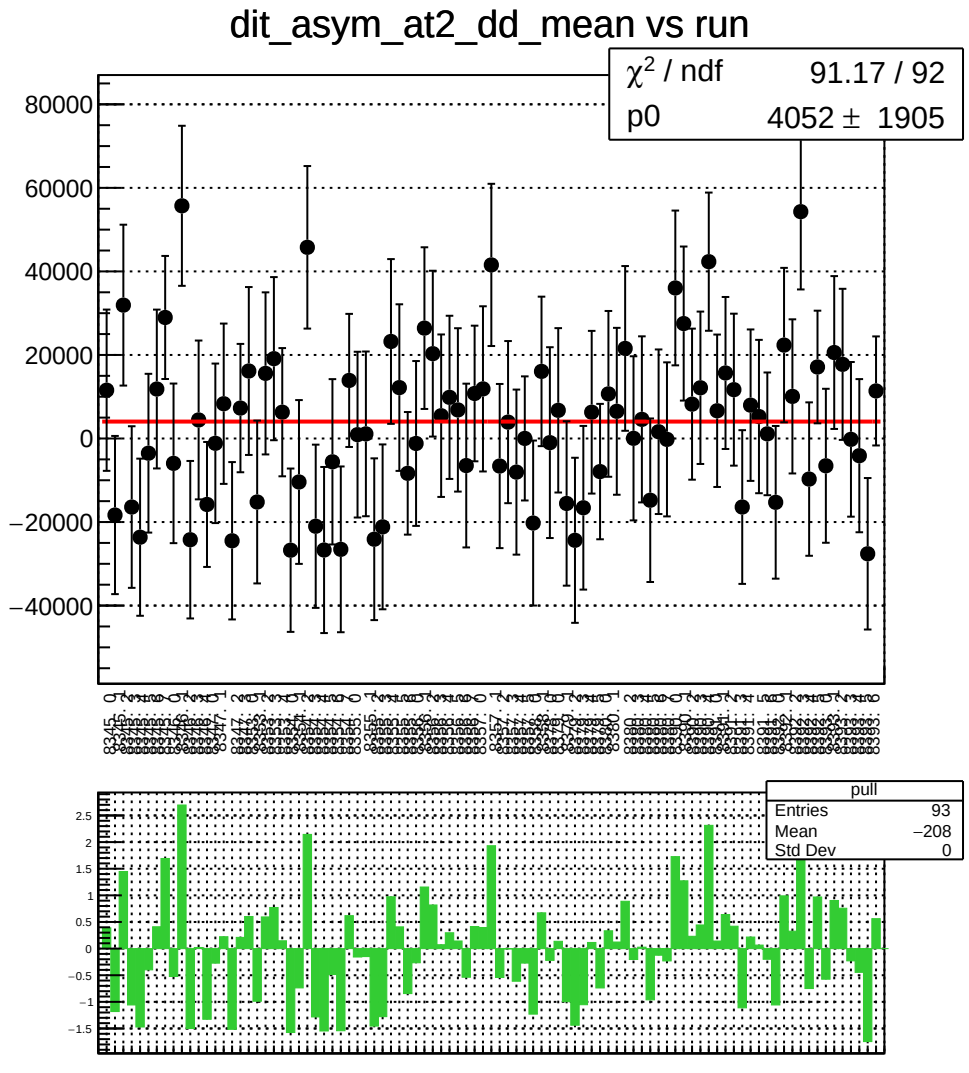

pull1D
Entries 93
Mean −0.01411
Std Dev 0.9966
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

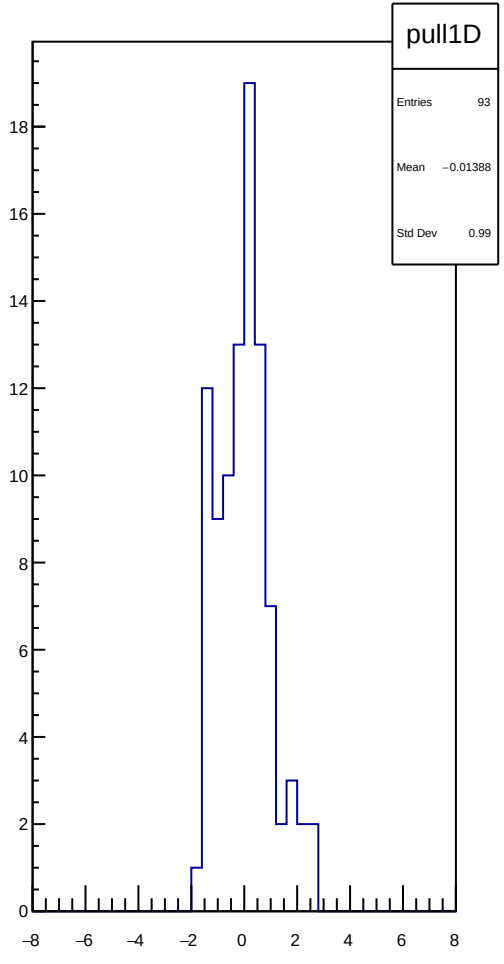

eigen_cor_asym_at2_dd_rms vs run
χ² / ndf 1875 / 92
p0 1814 ± 1.346
1900
1850
1800
1750
1700

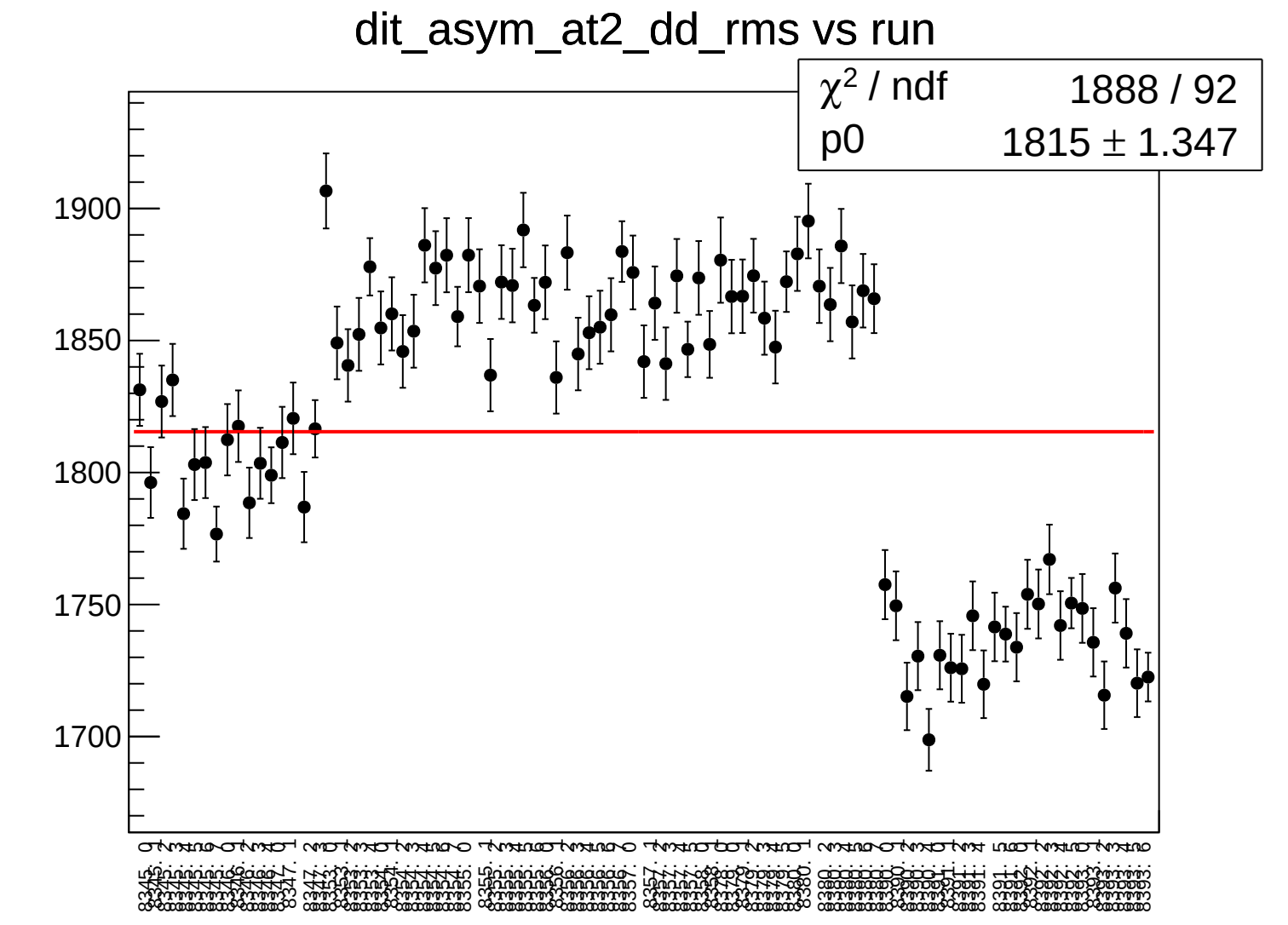

asym_at2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 110.6 / 92
p0 8033 ± 2673
pull
Entries 93
Mean −236.7
Std Dev 0

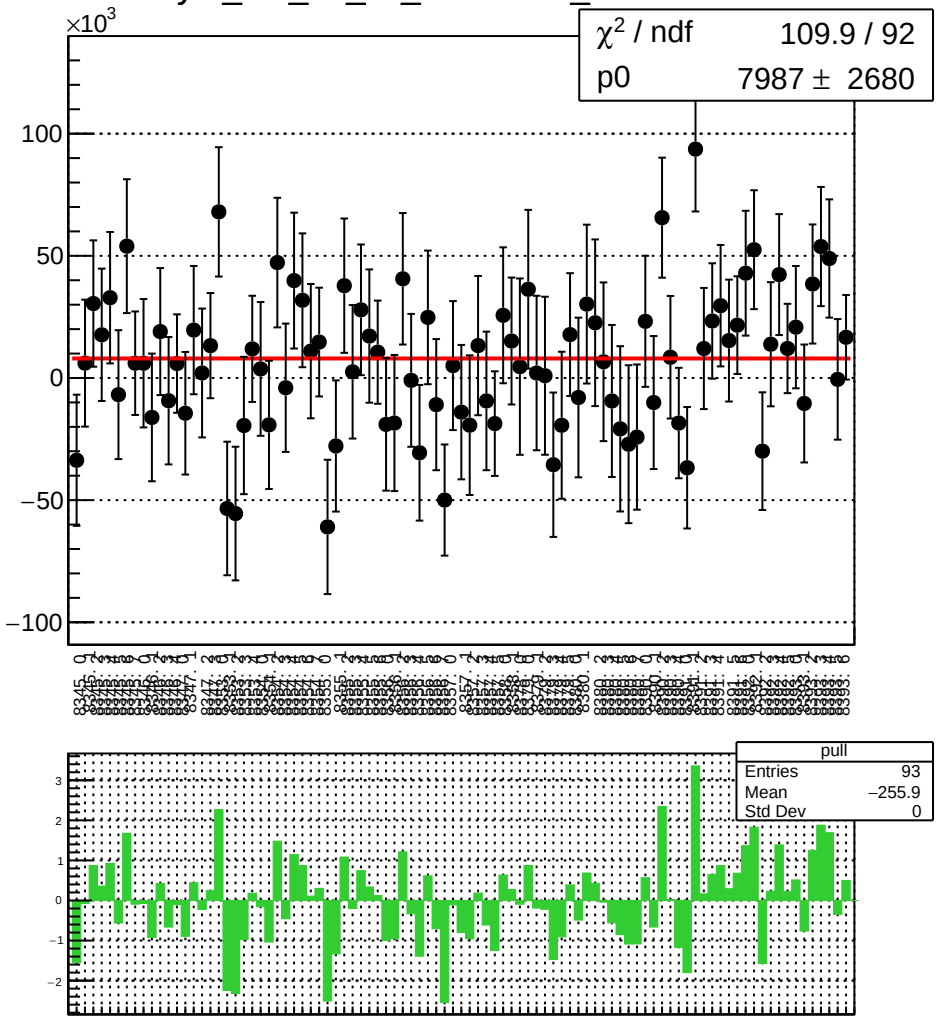

pull1D
Entries 93
Mean −0.01887
Std Dev 1.09

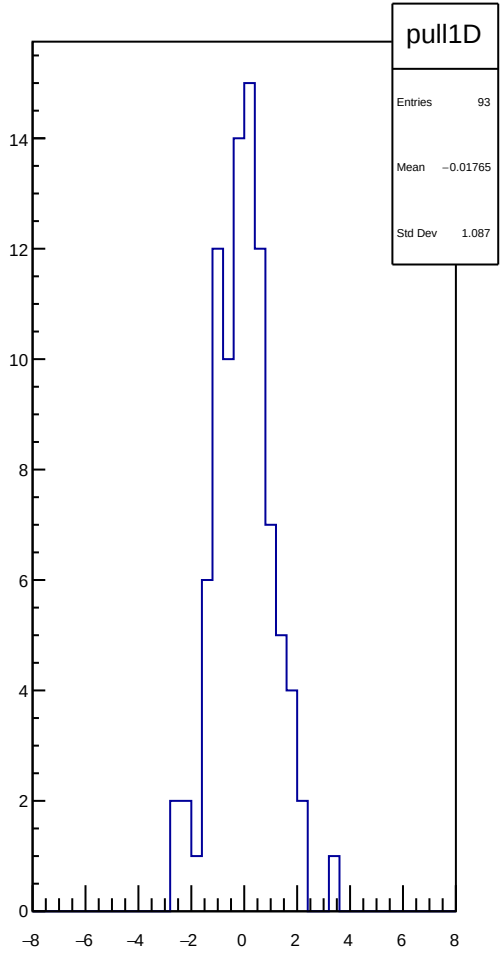

asym_at2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.454e+04 / 92
p0 2539 ± 1.89
3400
3200
3000
2800
2600
2400
2200

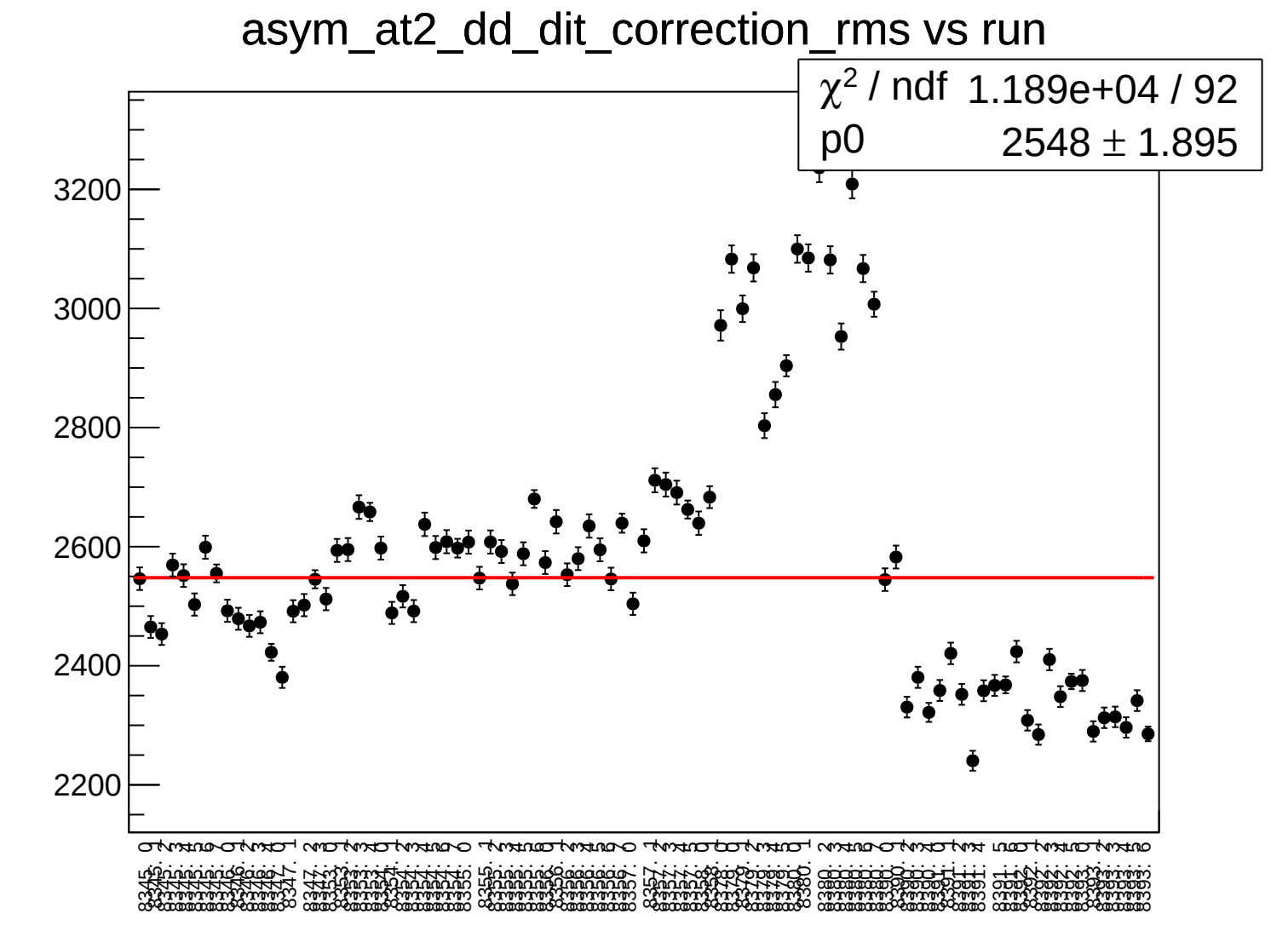

dit_asym_at2_dd_mean vs run
χ² / ndf 91.17 / 92
p0 4052 ± 1905
80000
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −208
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

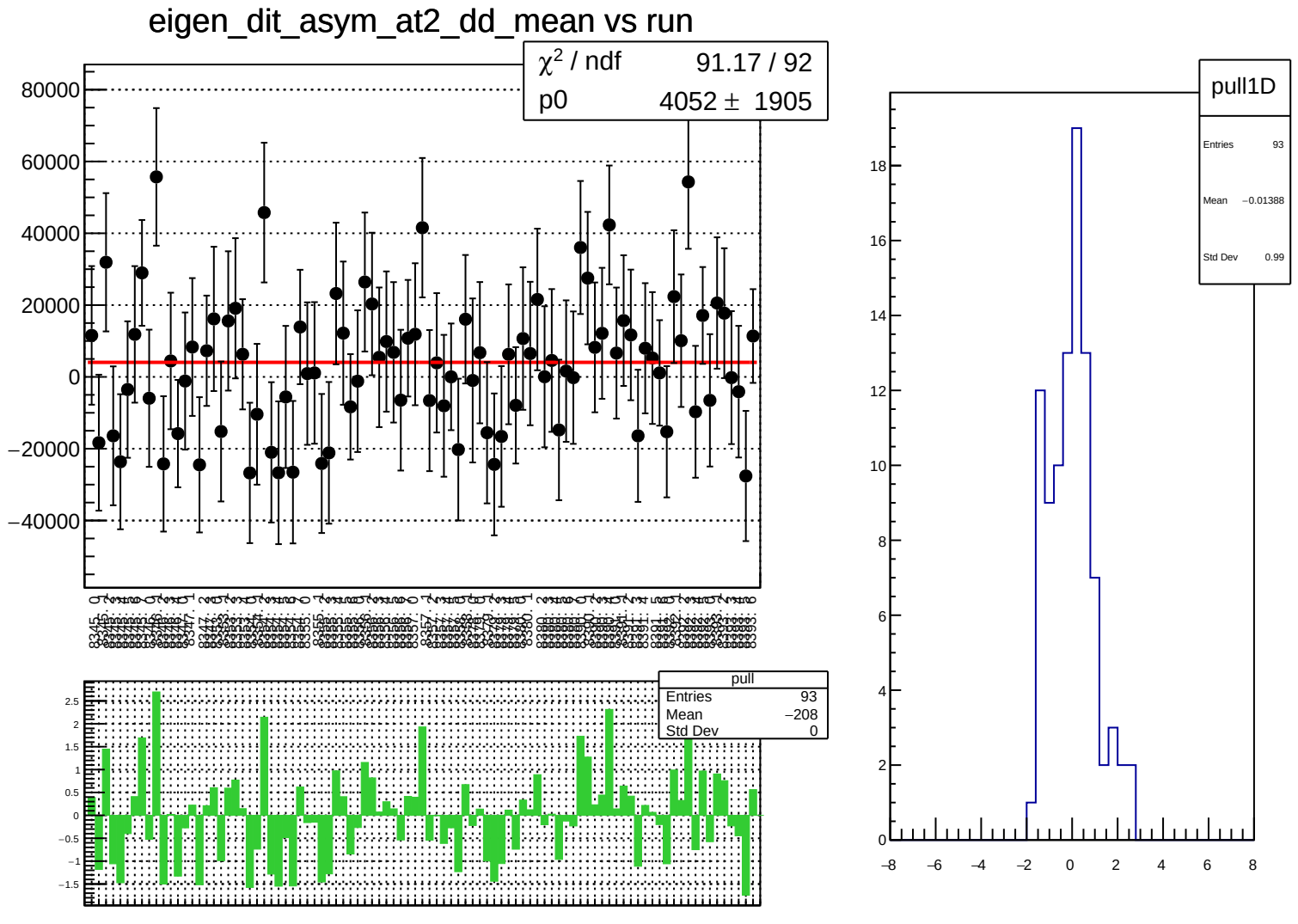

pull1D
Entries 93
Mean −0.01388
Std Dev 0.99
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

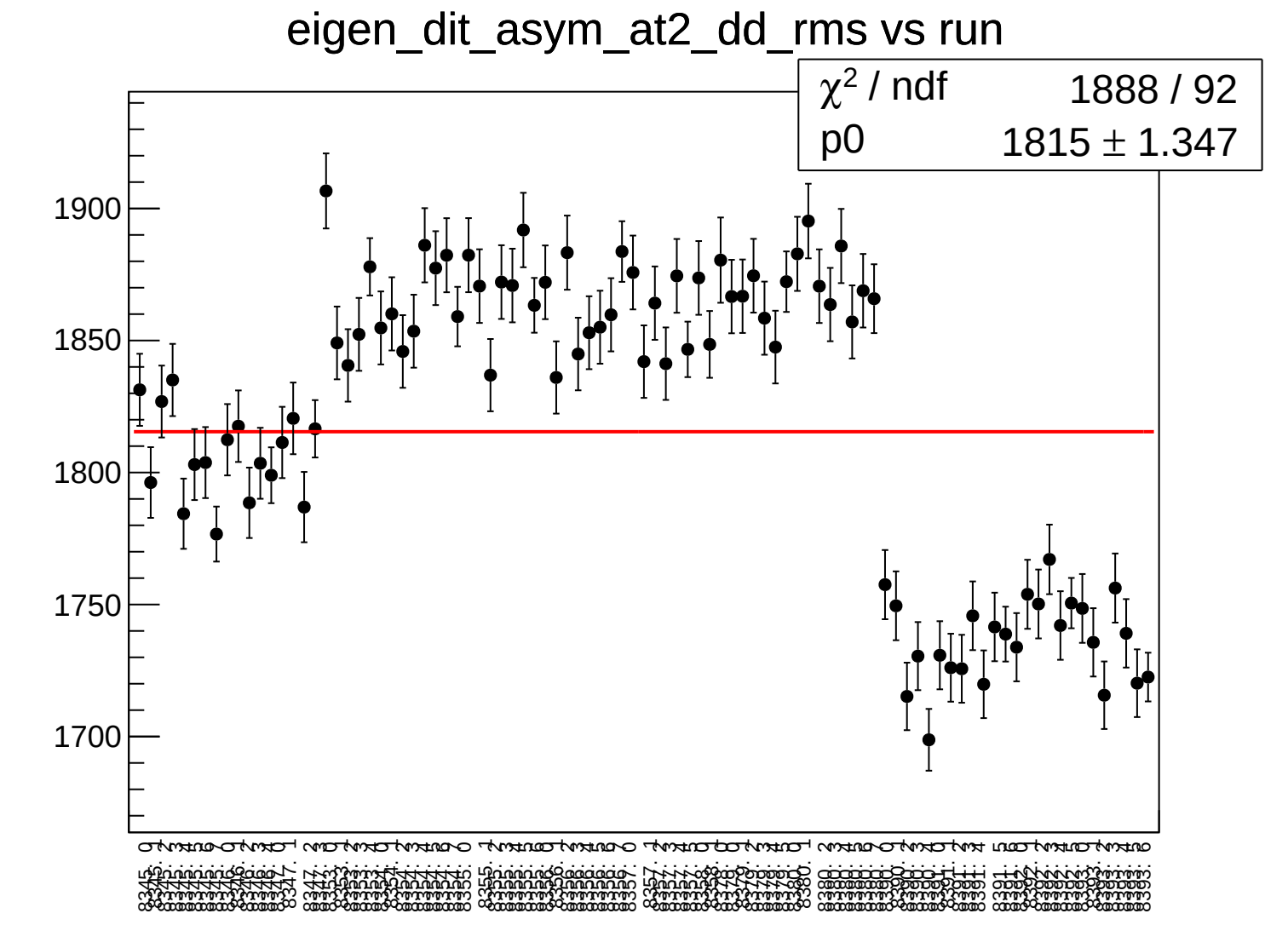

dit_asym_at2_dd_rms vs run
χ² / ndf 1888 / 92
p0 1815 ± 1.347
1900
1850
1800
1750
1700

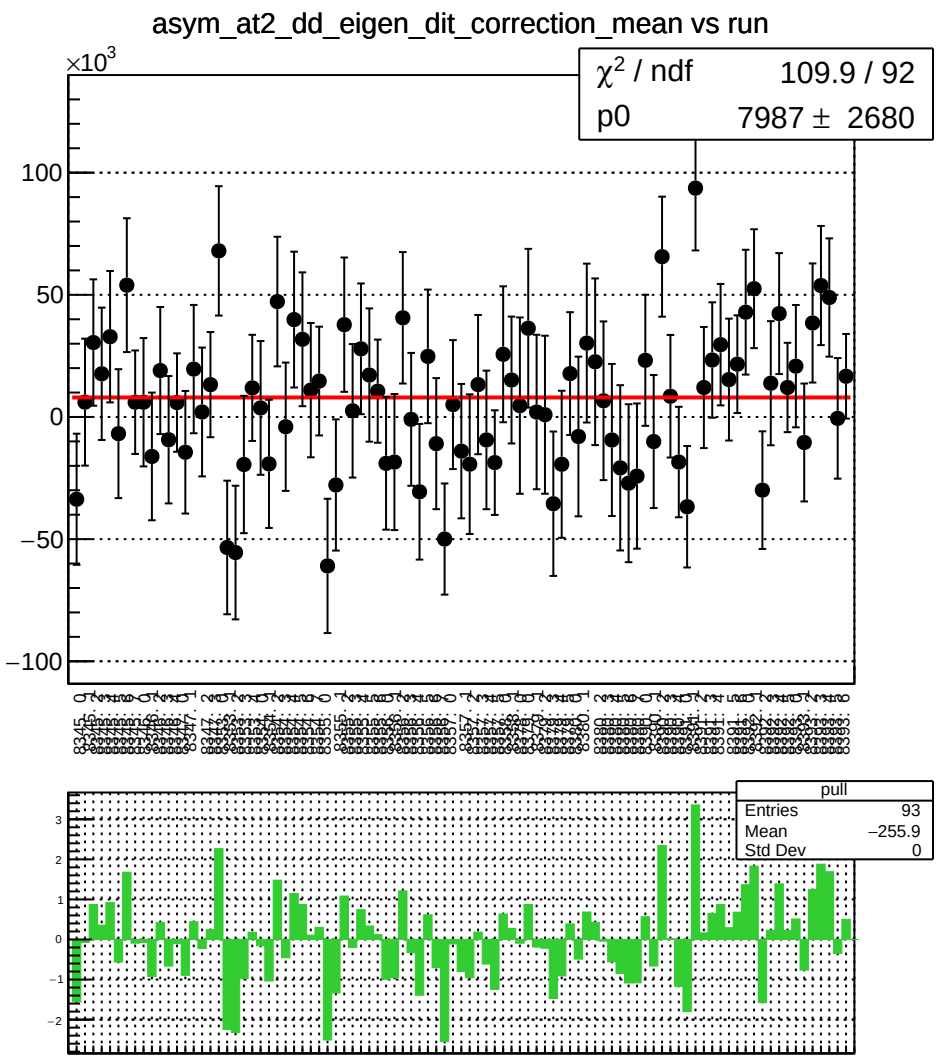

asym_at2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 109.9 / 92
p0 7987 ± 2680
100
50
0
−50
−100
pull
Entries 93
Mean −255.9
Std Dev 0
3
2
1
0
−1
−2

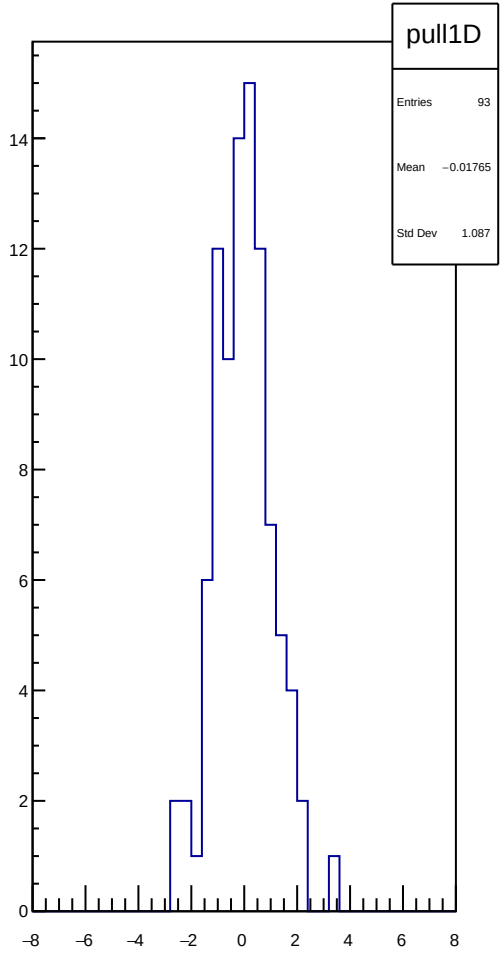

pull1D
Entries 93
Mean −0.01765
Std Dev 1.087
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

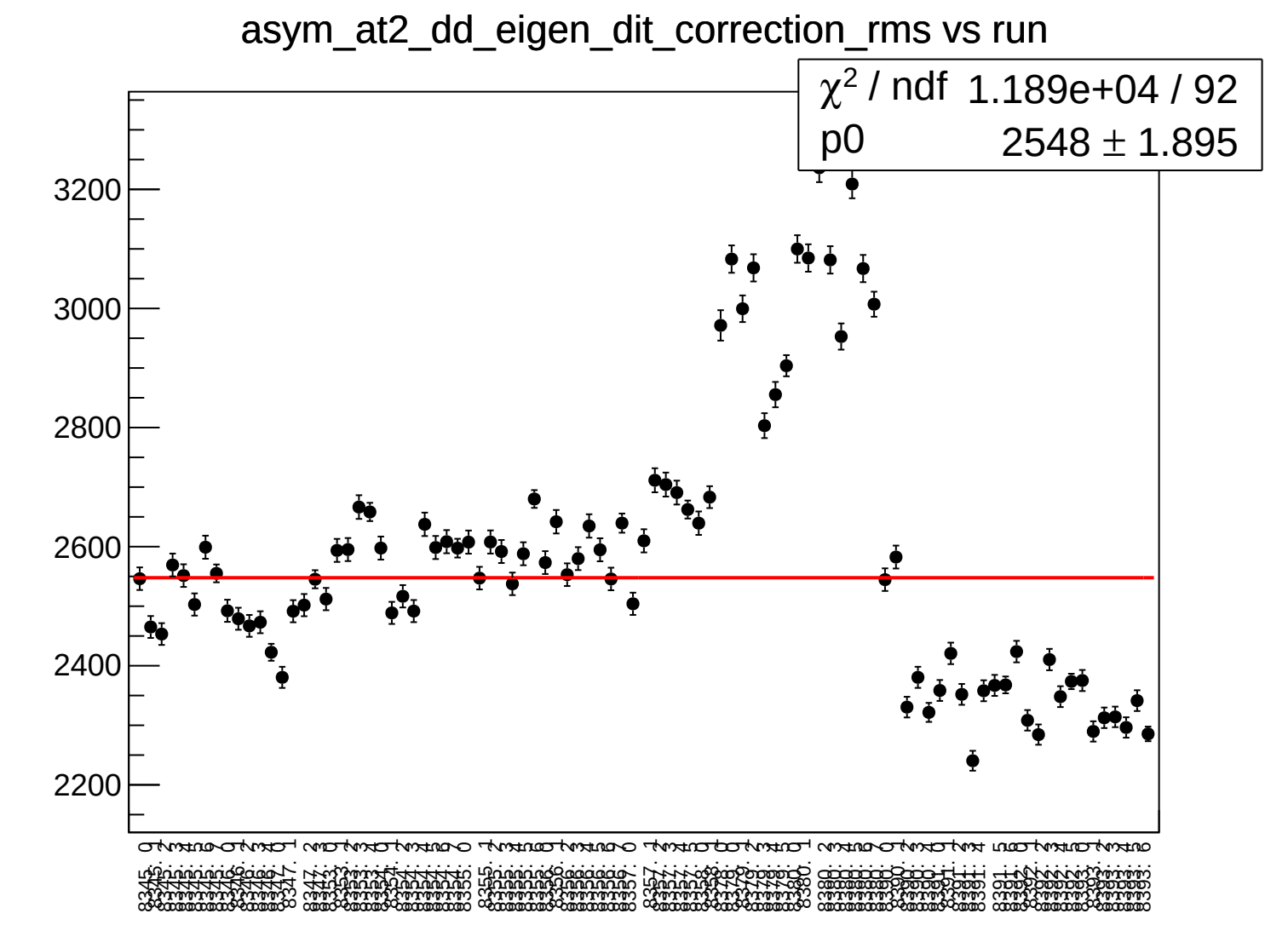

asym_at2_dd_dit_correction_rms vs run
χ² / ndf 1.189e+04 / 92
p0 2548 ± 1.895
3200
3000
2800
2600
2400
2200

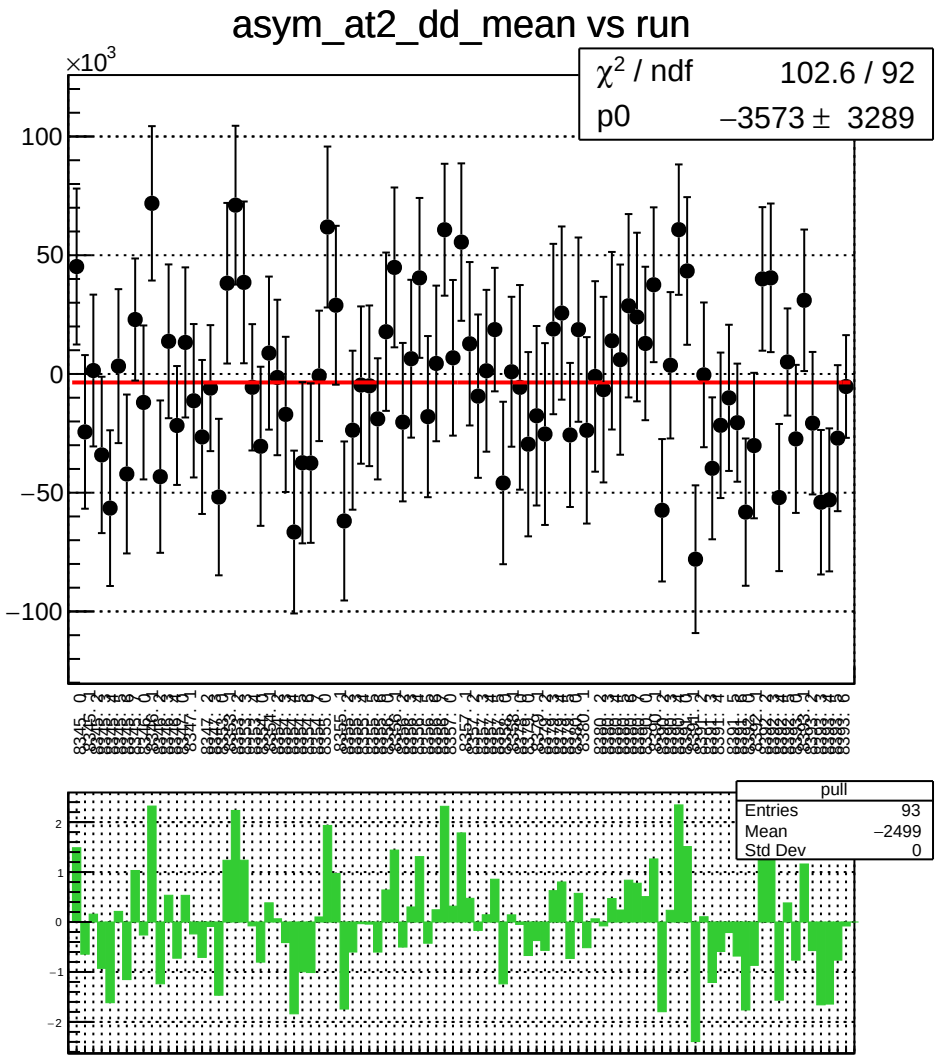

eigen_dit_asym_at2_dd_mean vs run
χ² / ndf 91.17 / 92
p0 4052 ± 1905
80000
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −208
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean −0.01388
Std Dev 0.99
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

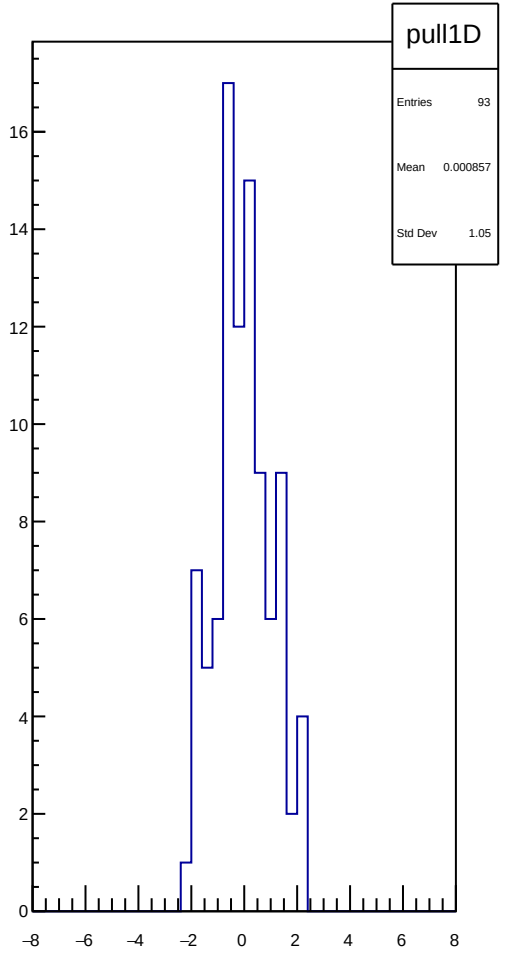

eigen_dit_asym_at2_dd_rms vs run
χ² / ndf 1888 / 92
p0 1815 ± 1.347
1900
1850
1800
1750
1700

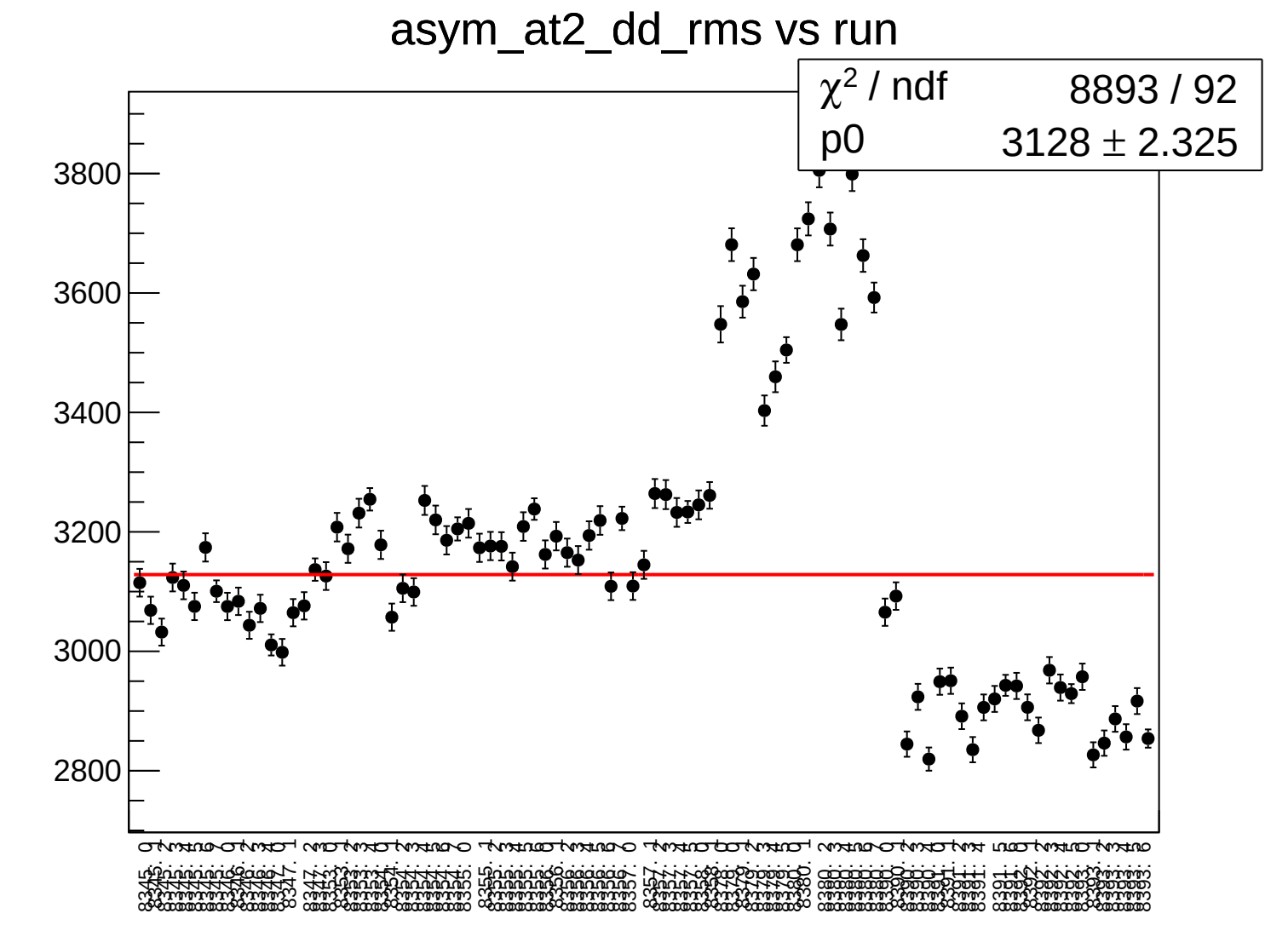

asym_at2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 109.9 / 92
p0 7987 ± 2680
100
50
0
−50
−100
pull
Entries 93
Mean −255.9
Std Dev 0
3
2
1
0
−1
−2

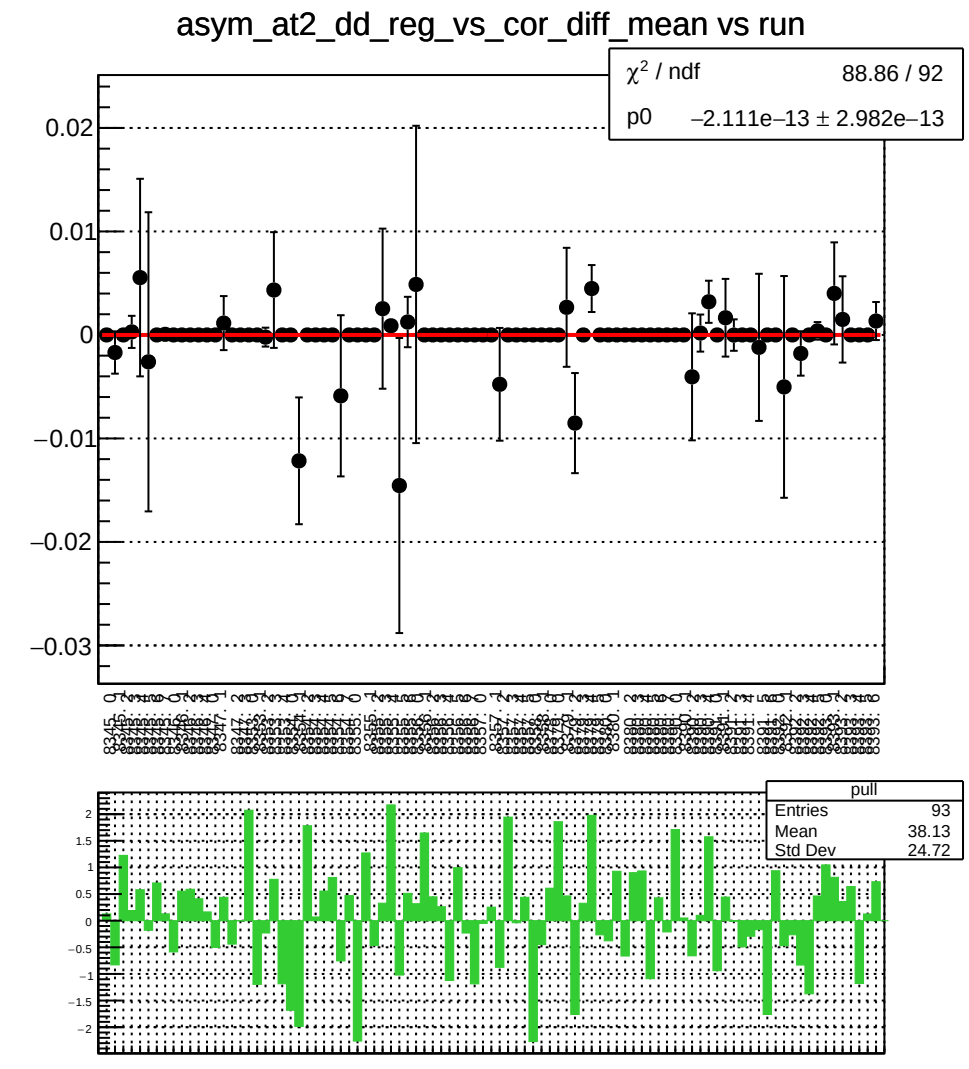

pull1D
Entries 93
Mean −0.01765
Std Dev 1.087
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

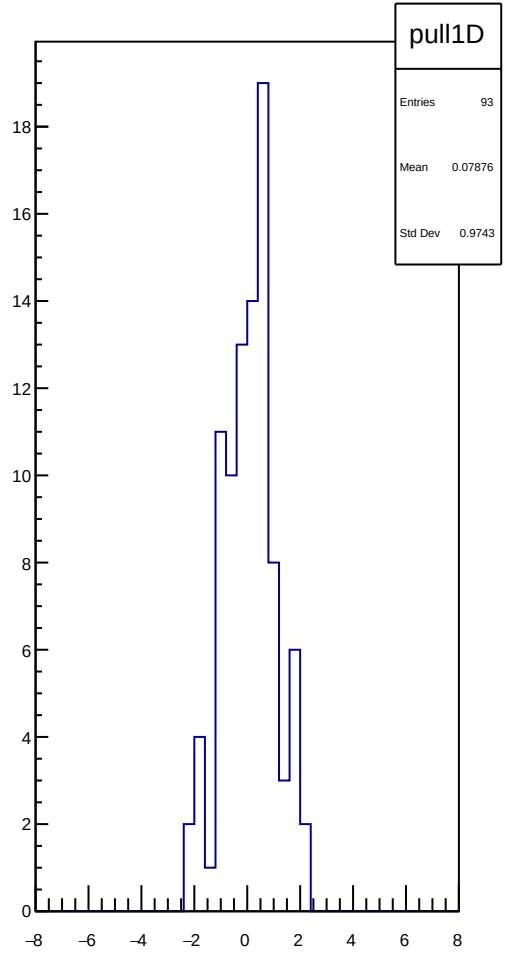

asym_at2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.189e+04 / 92
p0 2548 ± 1.895
3200
3000
2800
2600
2400
2200

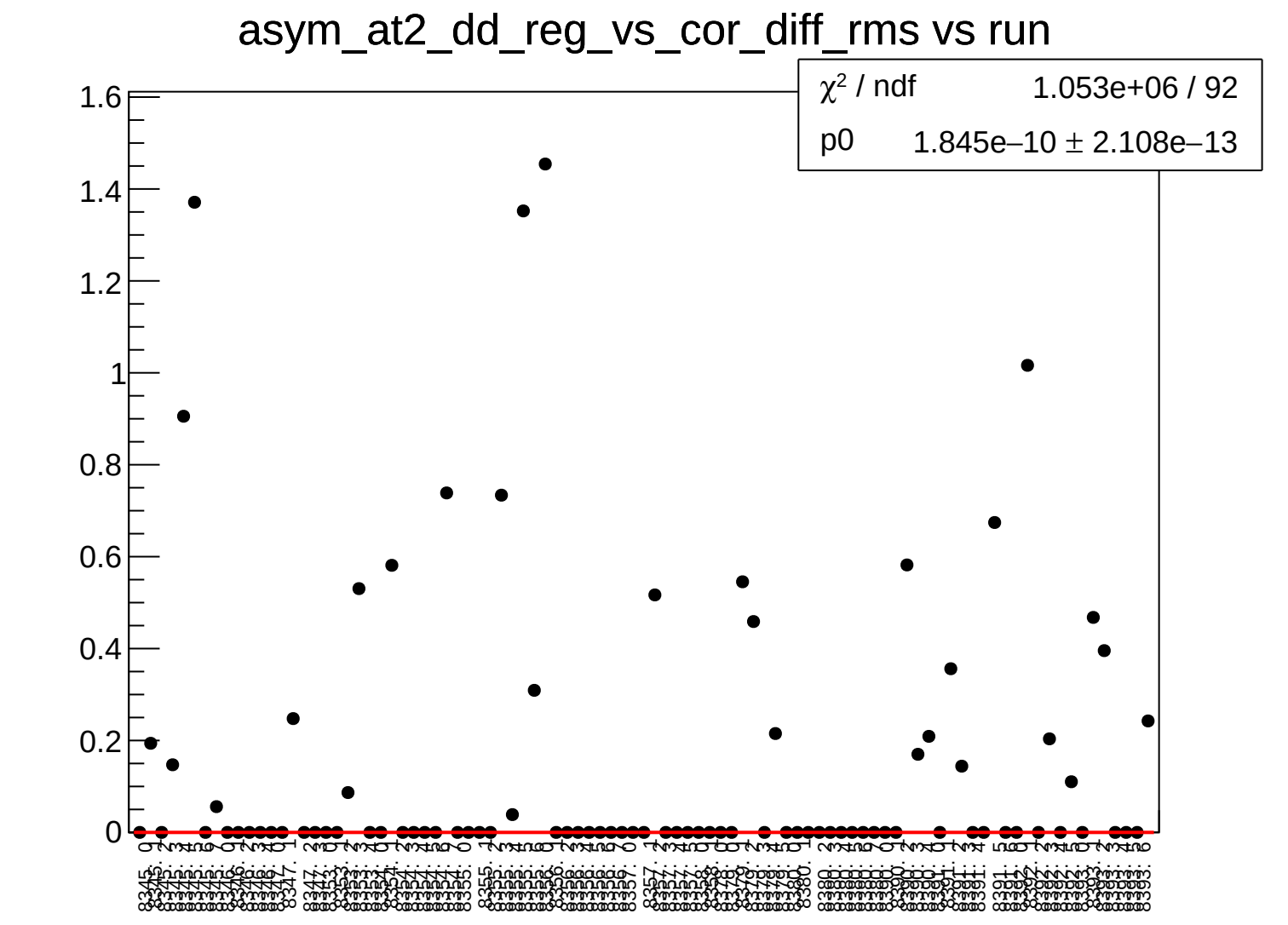

asym_at2_dd_mean vs run
×10^3
χ² / ndf 102.6 / 92
p0 −3573 ± 3289
100
50
0
−50
−100
pull
Entries 93
Mean −2499
Std Dev 0
2
1
0
−1
−2

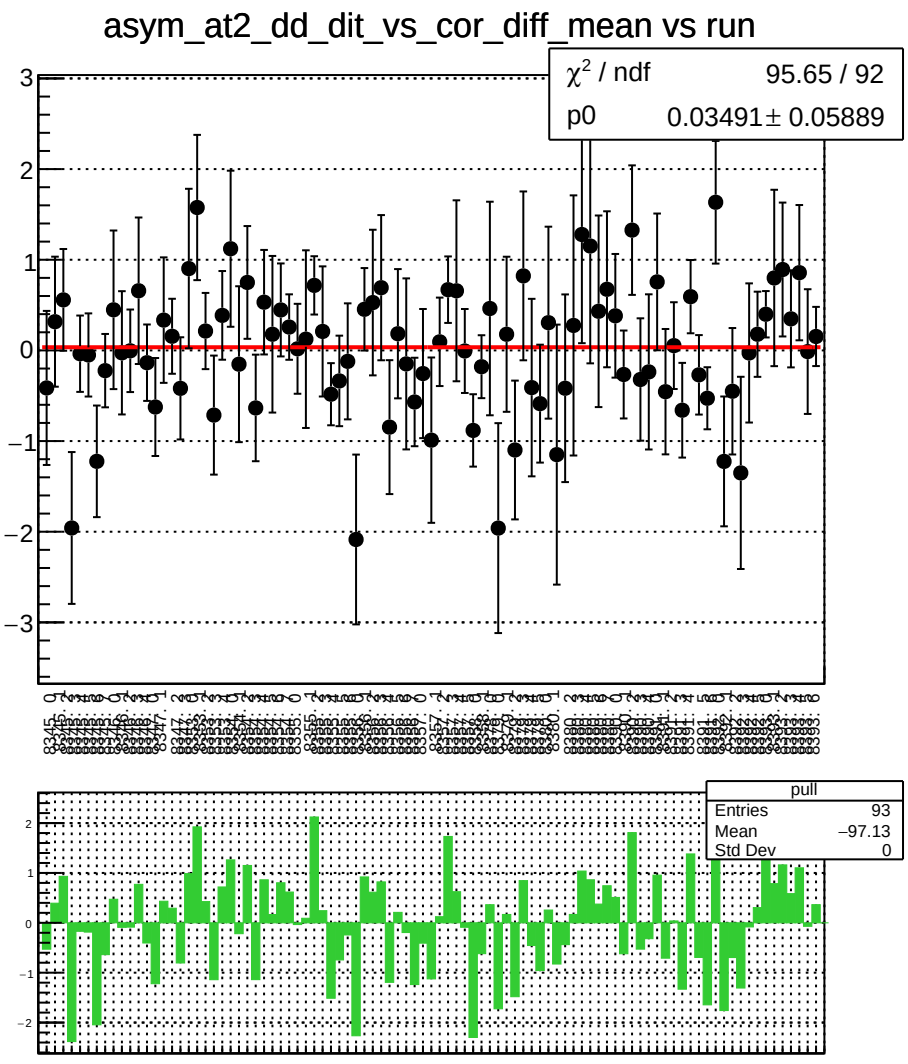

pull1D
Entries 93
Mean 0.000857
Std Dev 1.05
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

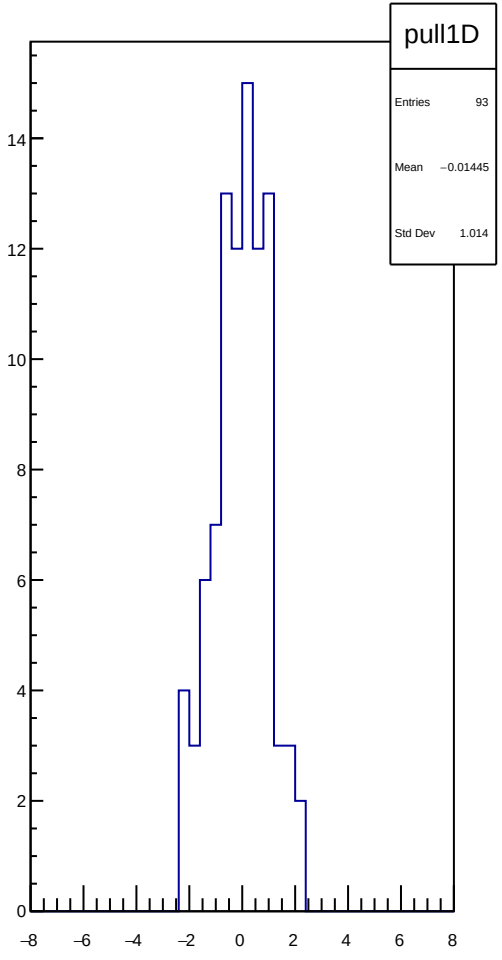

asym_at2_dd_rms vs run
χ² / ndf 8893 / 92
p0 3128 ± 2.325
3800
3600
3400
3200
3000
2800

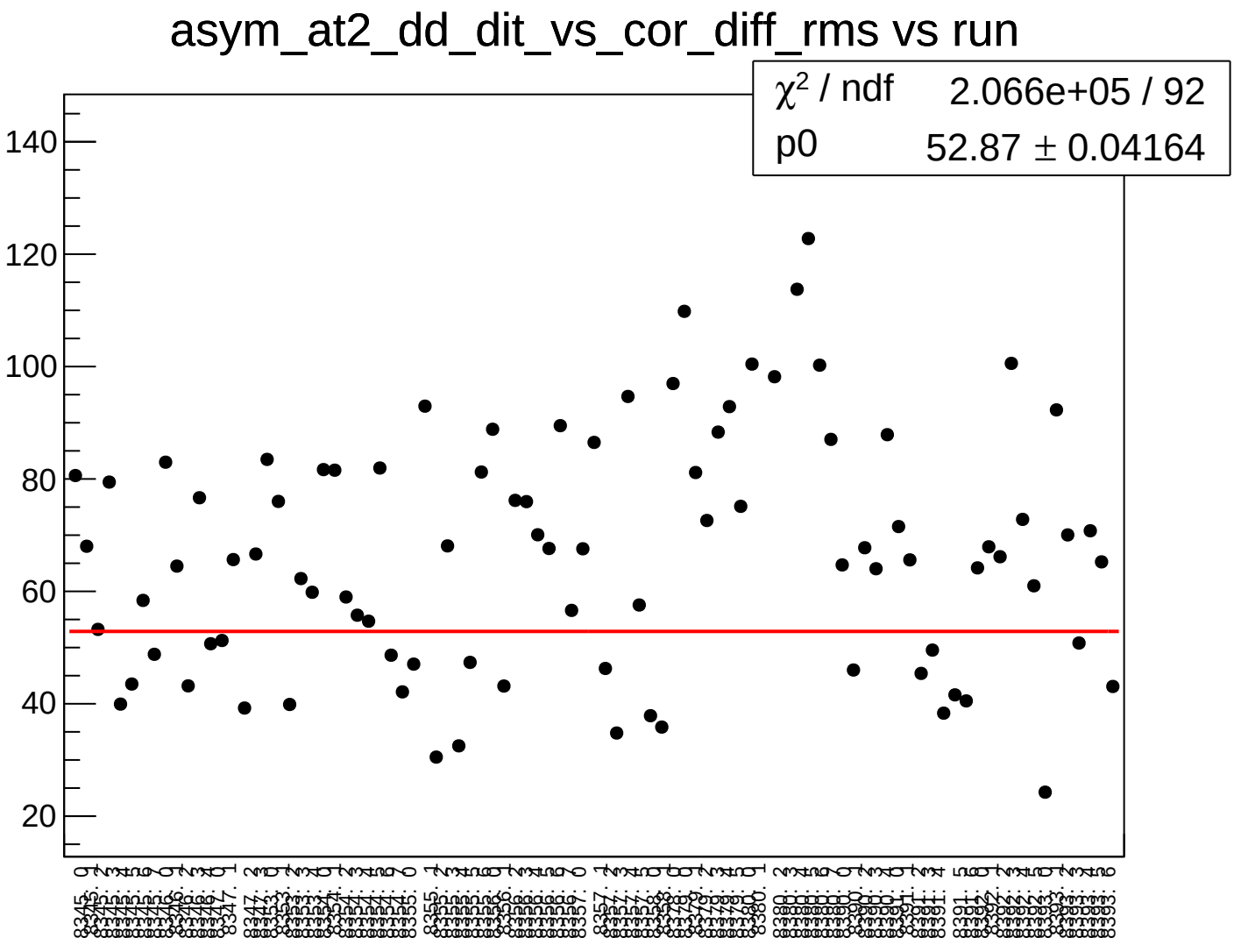

asym_at2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 88.86 / 92
p0 −2.111e−13 ± 2.982e−13
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 93
Mean 38.13
Std Dev 24.72
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

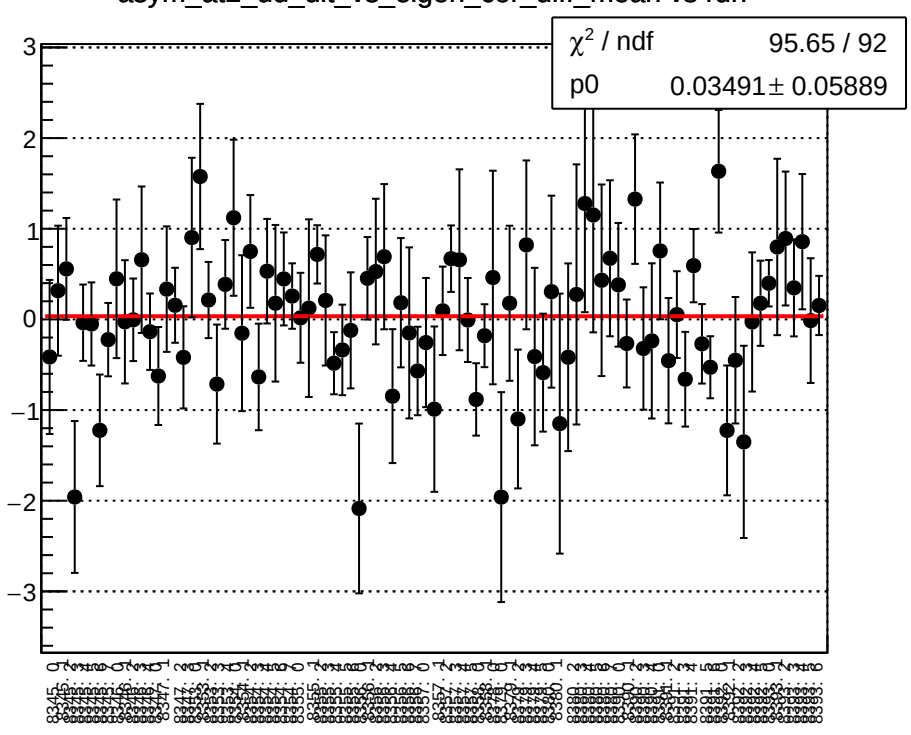

pull1D
Entries 93
Mean 0.07876
Std Dev 0.9743
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

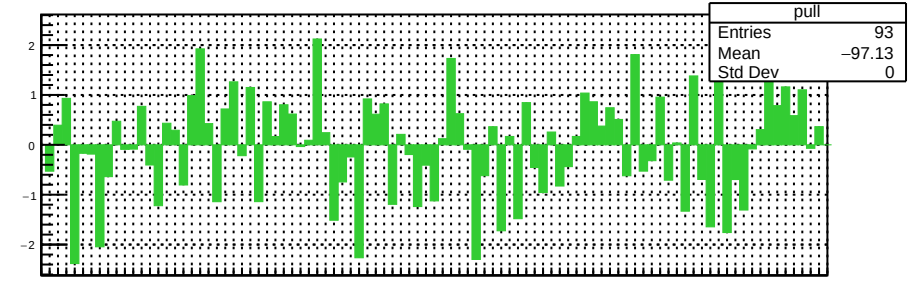

asym_at2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.053e+06 / 92
p0 1.845e−10 ± 2.108e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

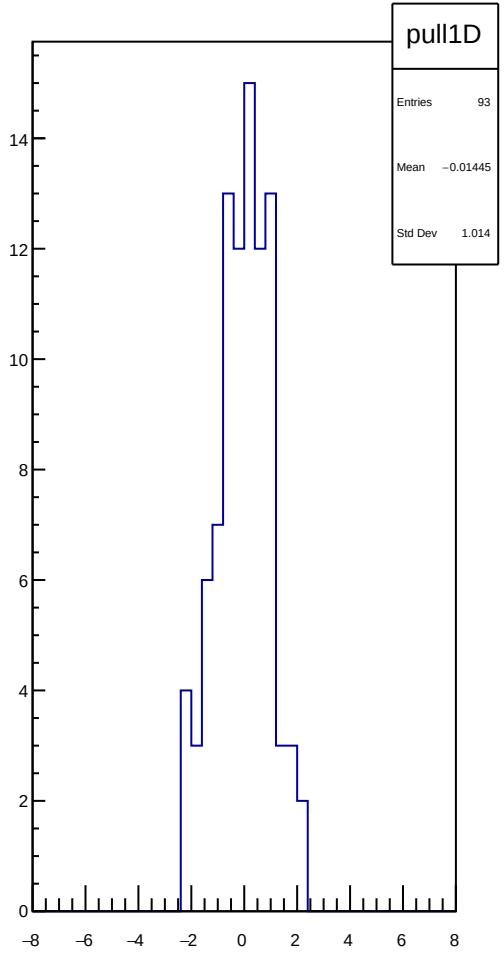

asym_at2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 95.65 / 92
p0 0.03491 ± 0.05889
pull
Entries 93
Mean −97.13
Std Dev 0

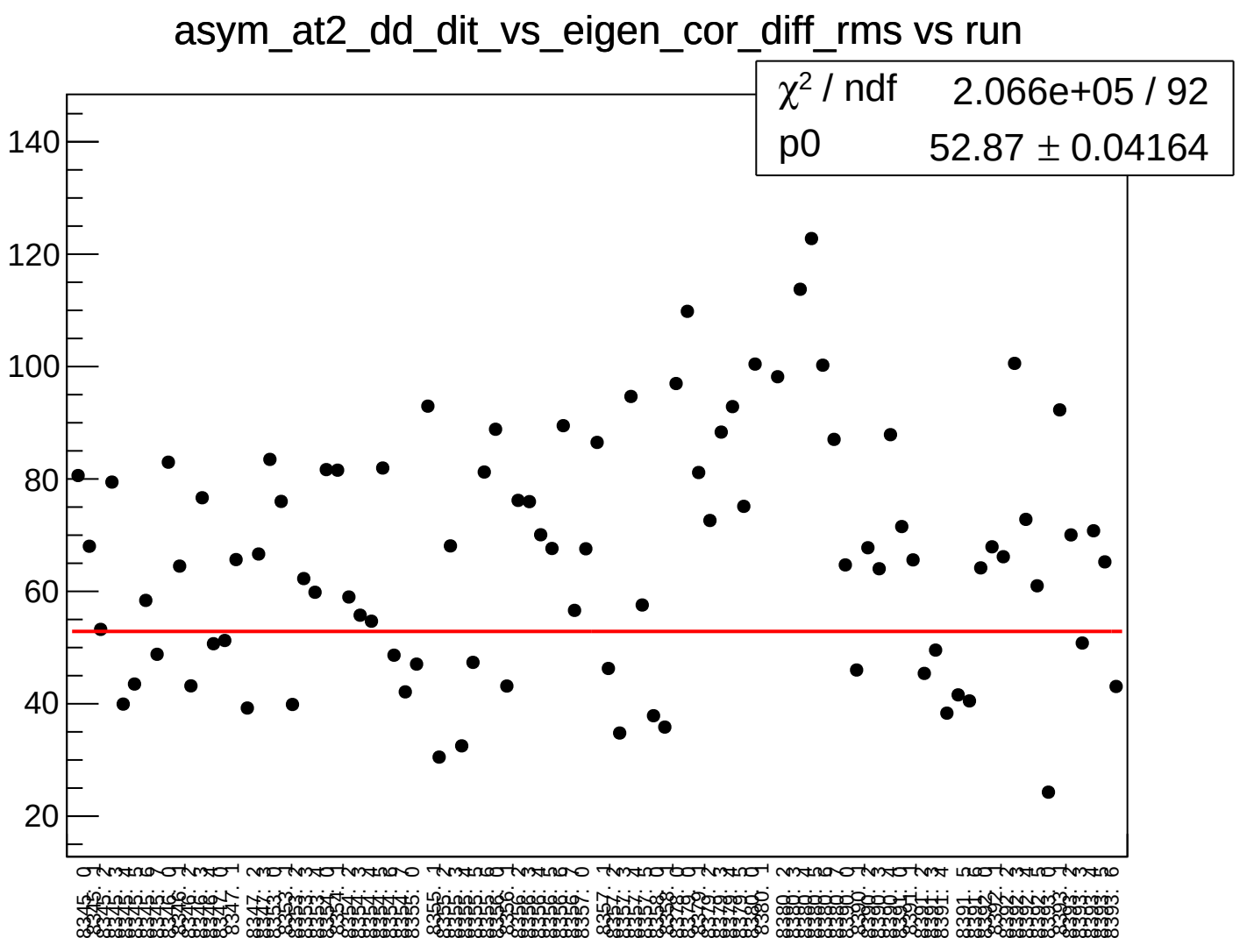

pull1D
Entries 93
Mean −0.01445
Std Dev 1.014

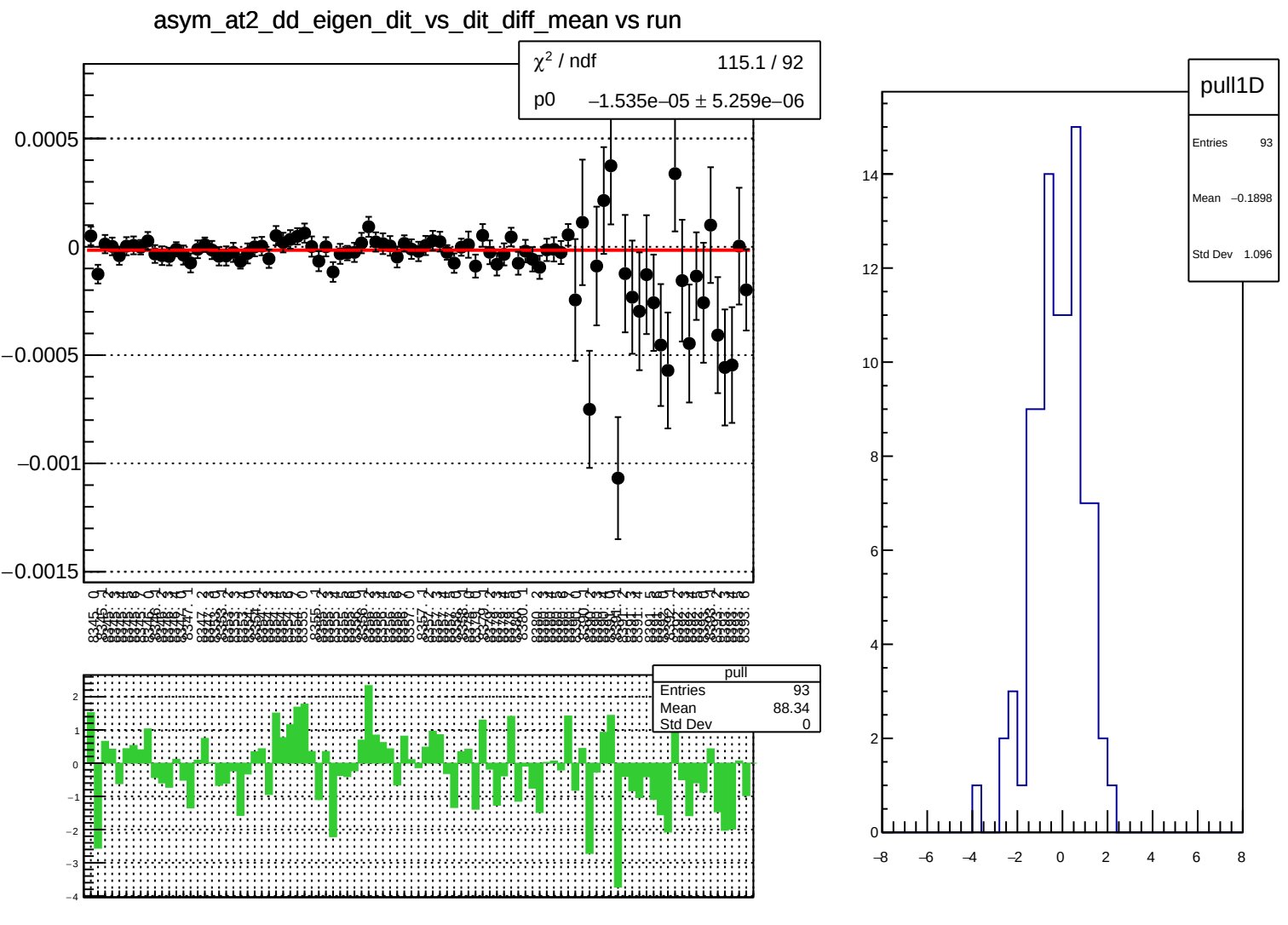

asym_at2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.066e+05 / 92
p0 52.87 ± 0.04164
140
120
100
80
60
40
20

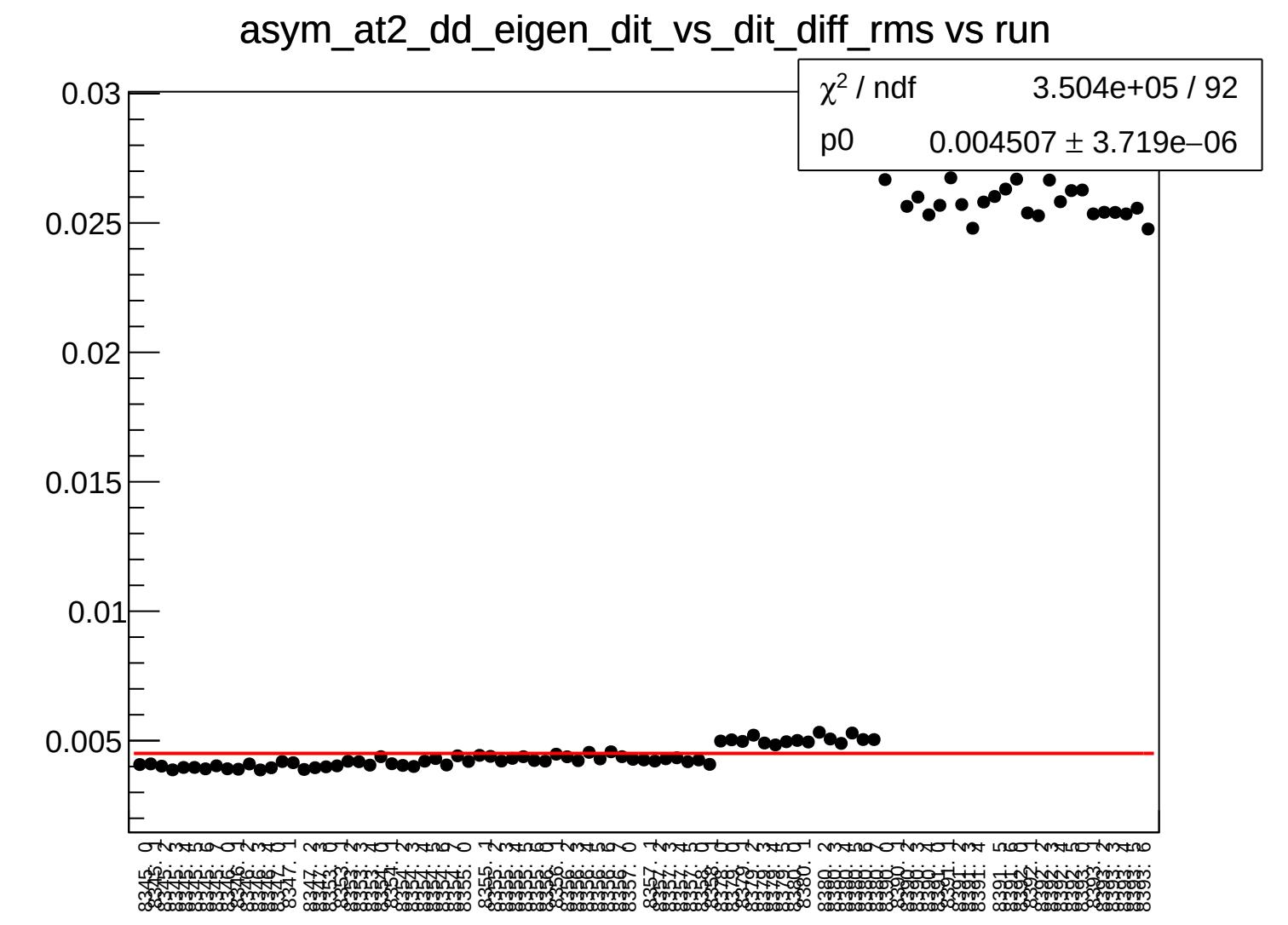

asym_at2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.65 / 92
p0 0.03491 ± 0.05889

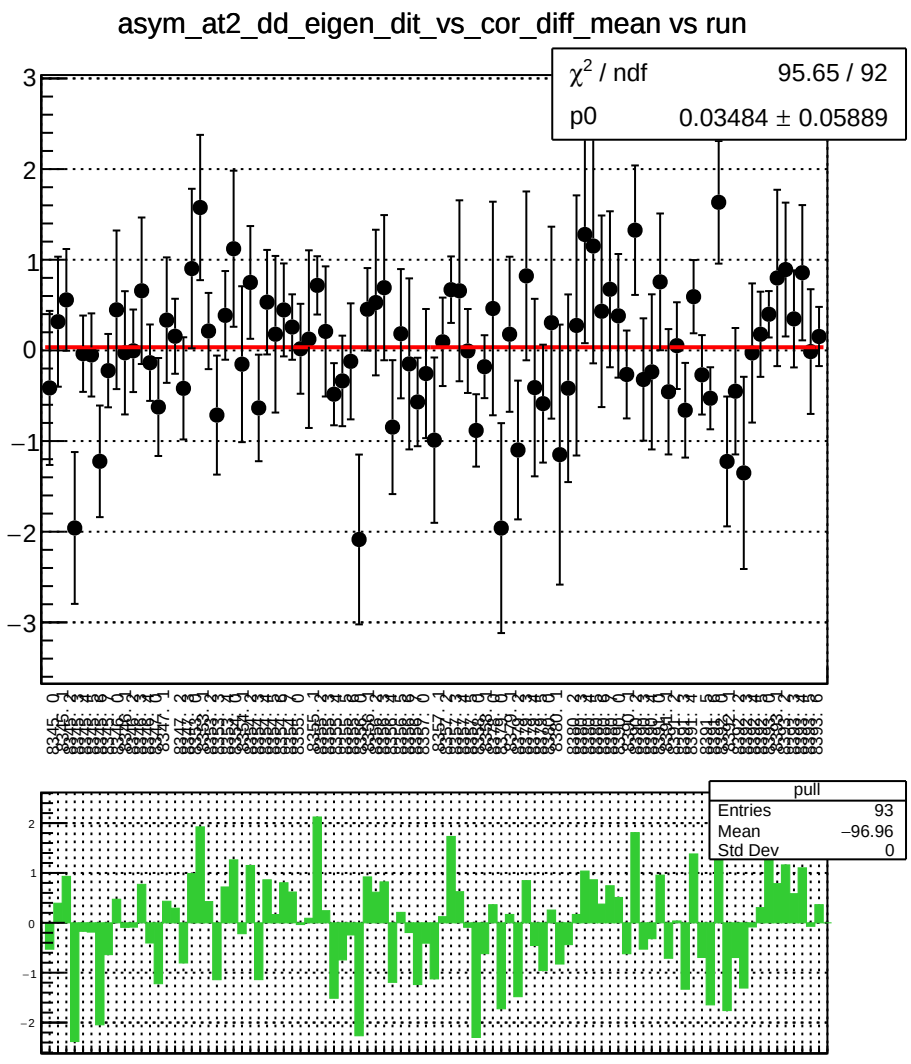

pull
Entries 93
Mean −97.13
Std Dev 0

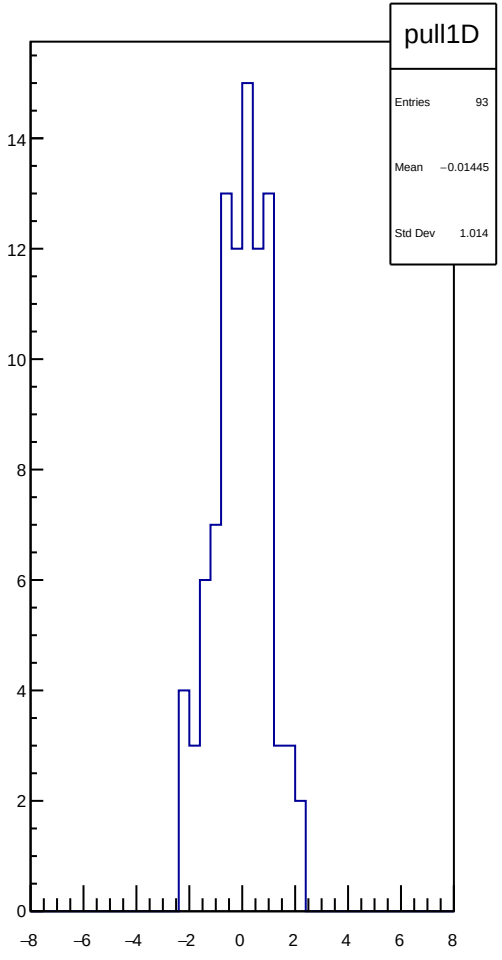

pull1D
Entries 93
Mean −0.01445
Std Dev 1.014

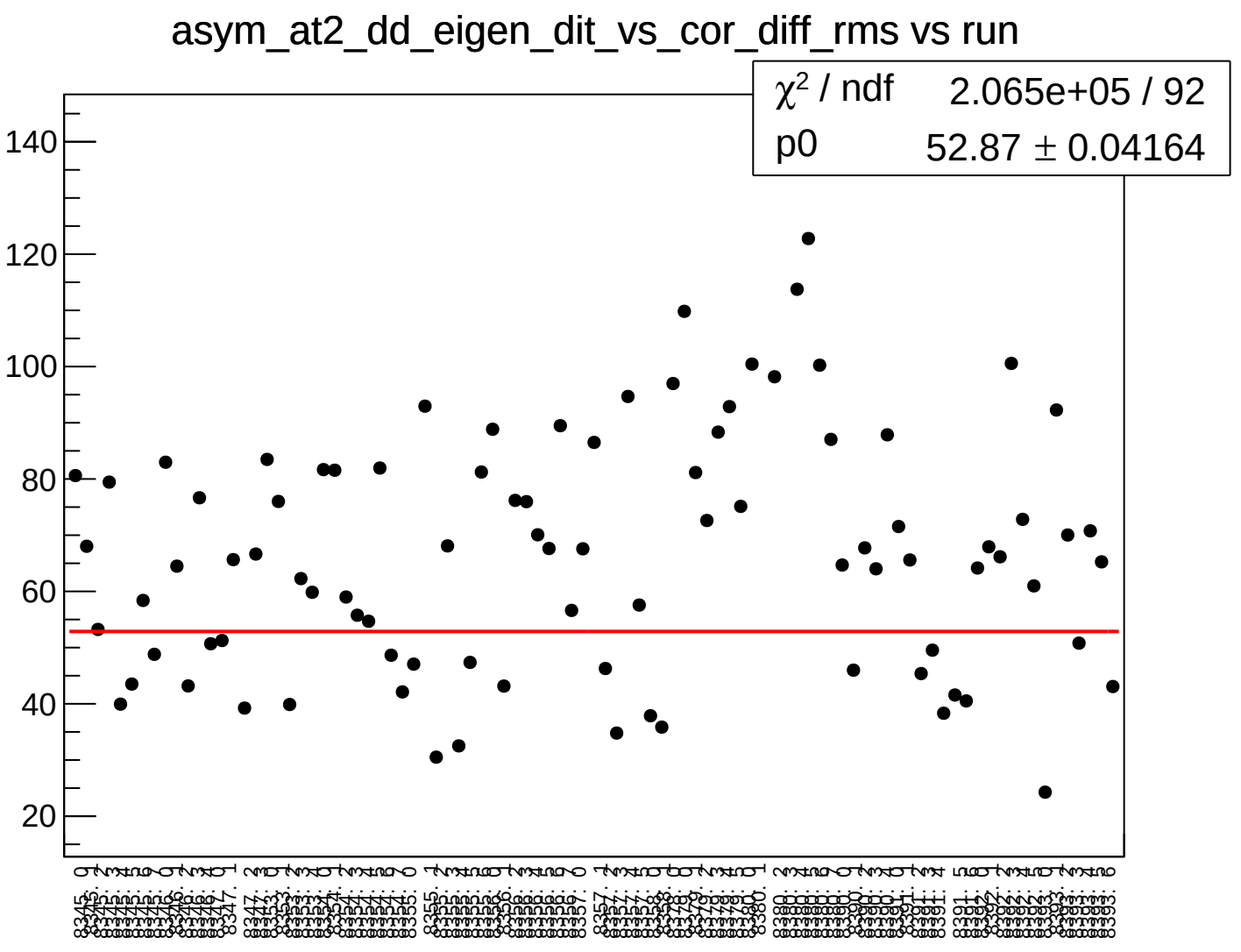

asym_at2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.066e+05 / 92
p0 52.87 ± 0.04164
140
120
100
80
60
40
20

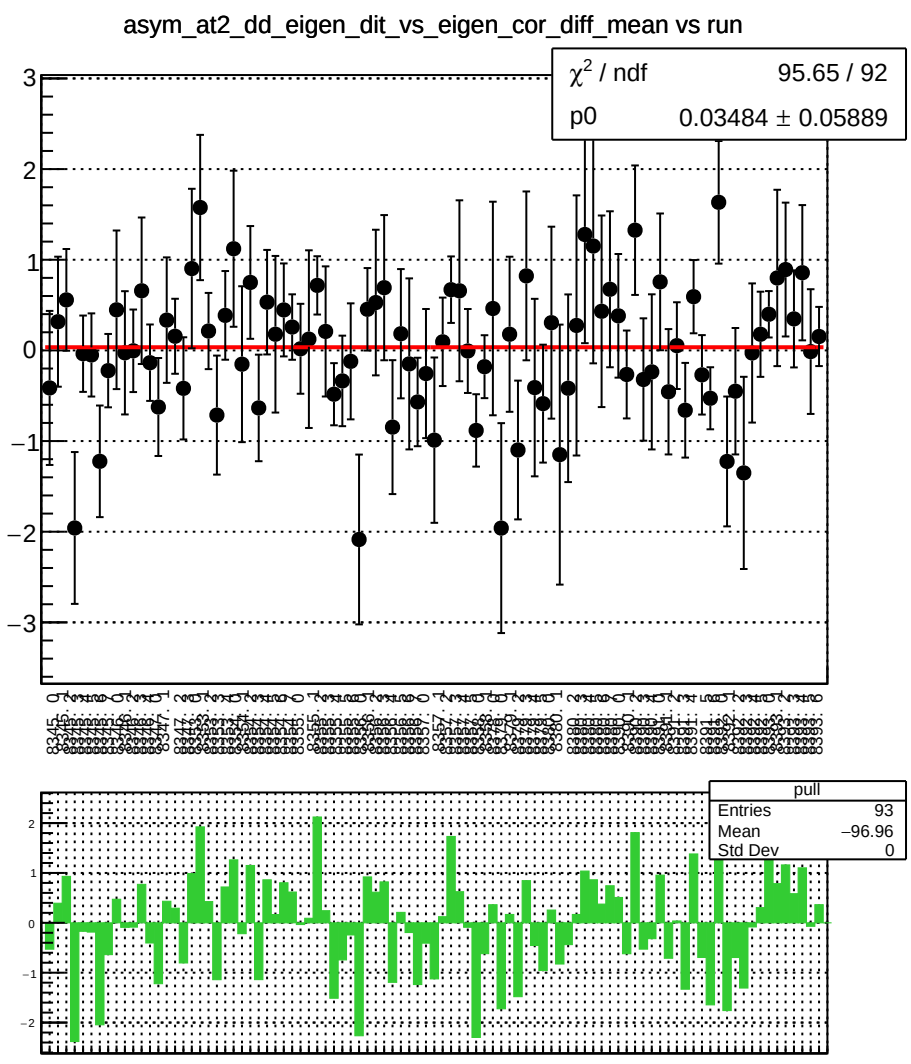

asym_at2_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 115.1 / 92
p0 −1.535e−05 ± 5.259e−06
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 93
Mean 88.34
Std Dev 0
pull1D
Entries 93
Mean −0.1898
Std Dev 1.096

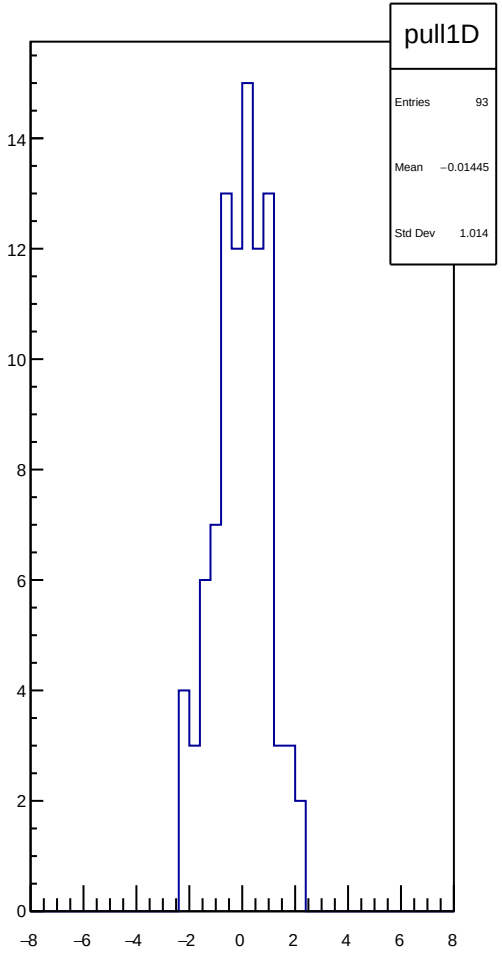

asym_at2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.504e+05 / 92
p0 0.004507 ± 3.719e−06
0.03
0.025
0.02
0.015
0.01
0.005

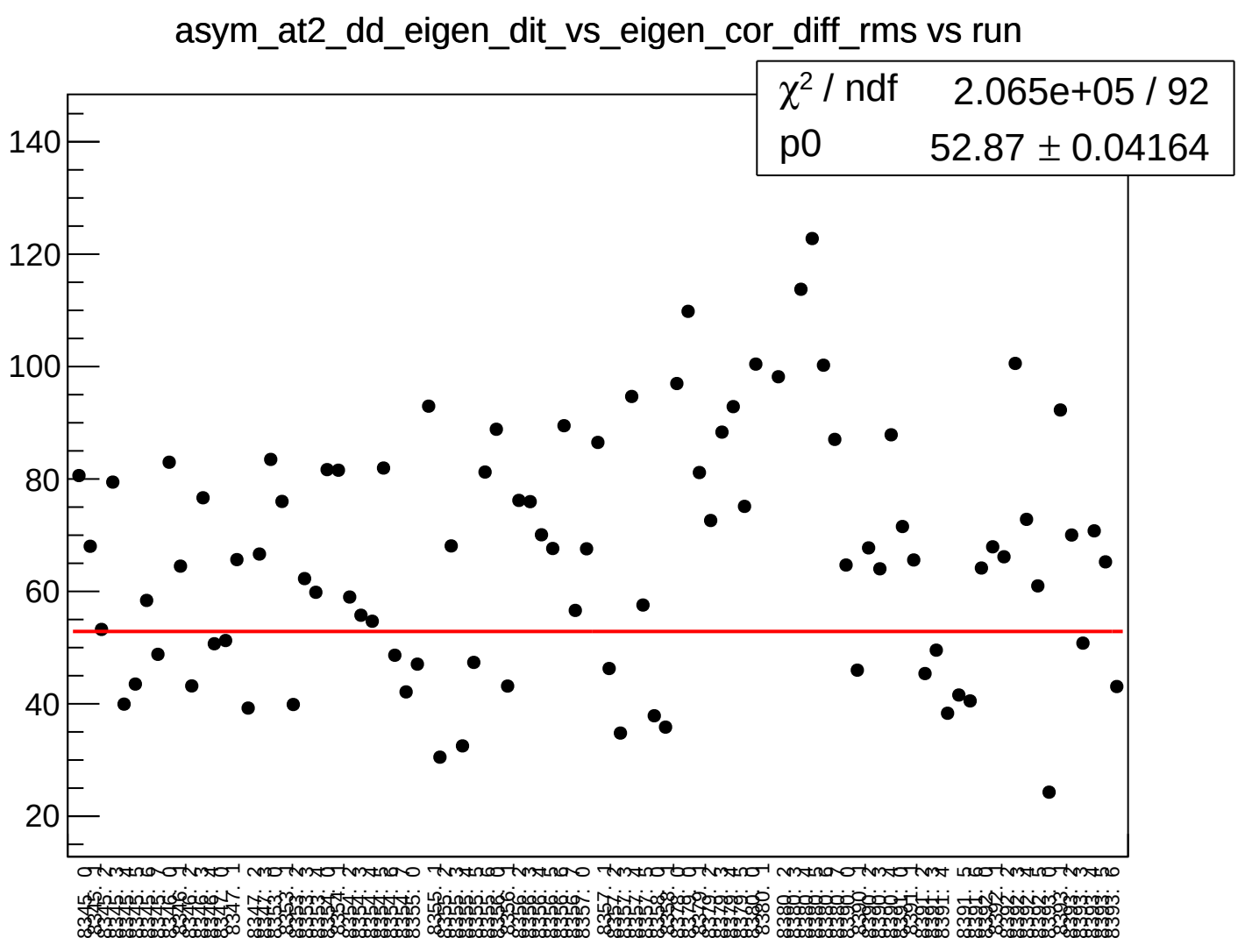

asym_at2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.65 / 92
p0 0.03484 ± 0.05889
pull
Entries 93
Mean −96.96
Std Dev 0

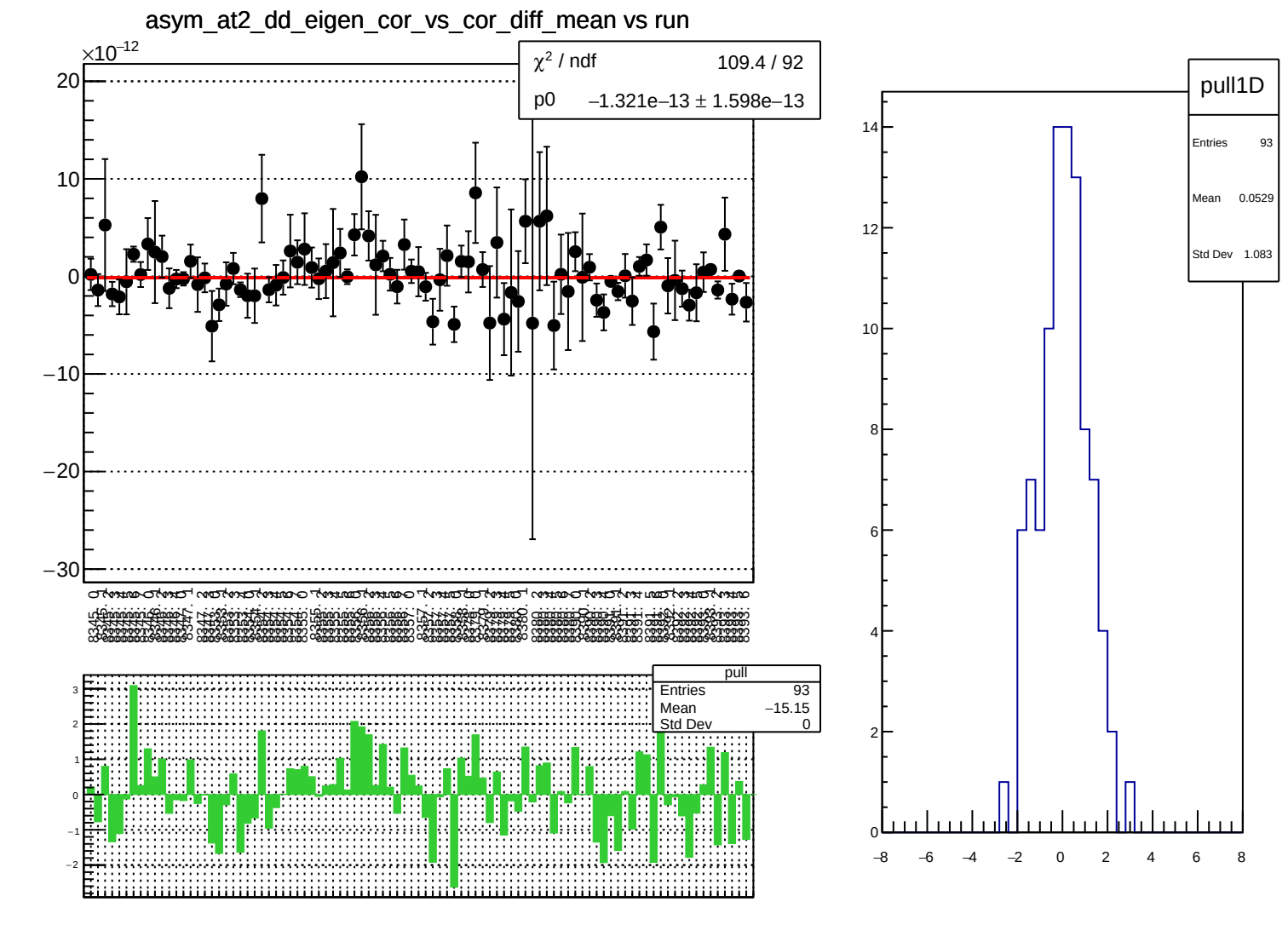

pull1D
Entries 93
Mean −0.01445
Std Dev 1.014

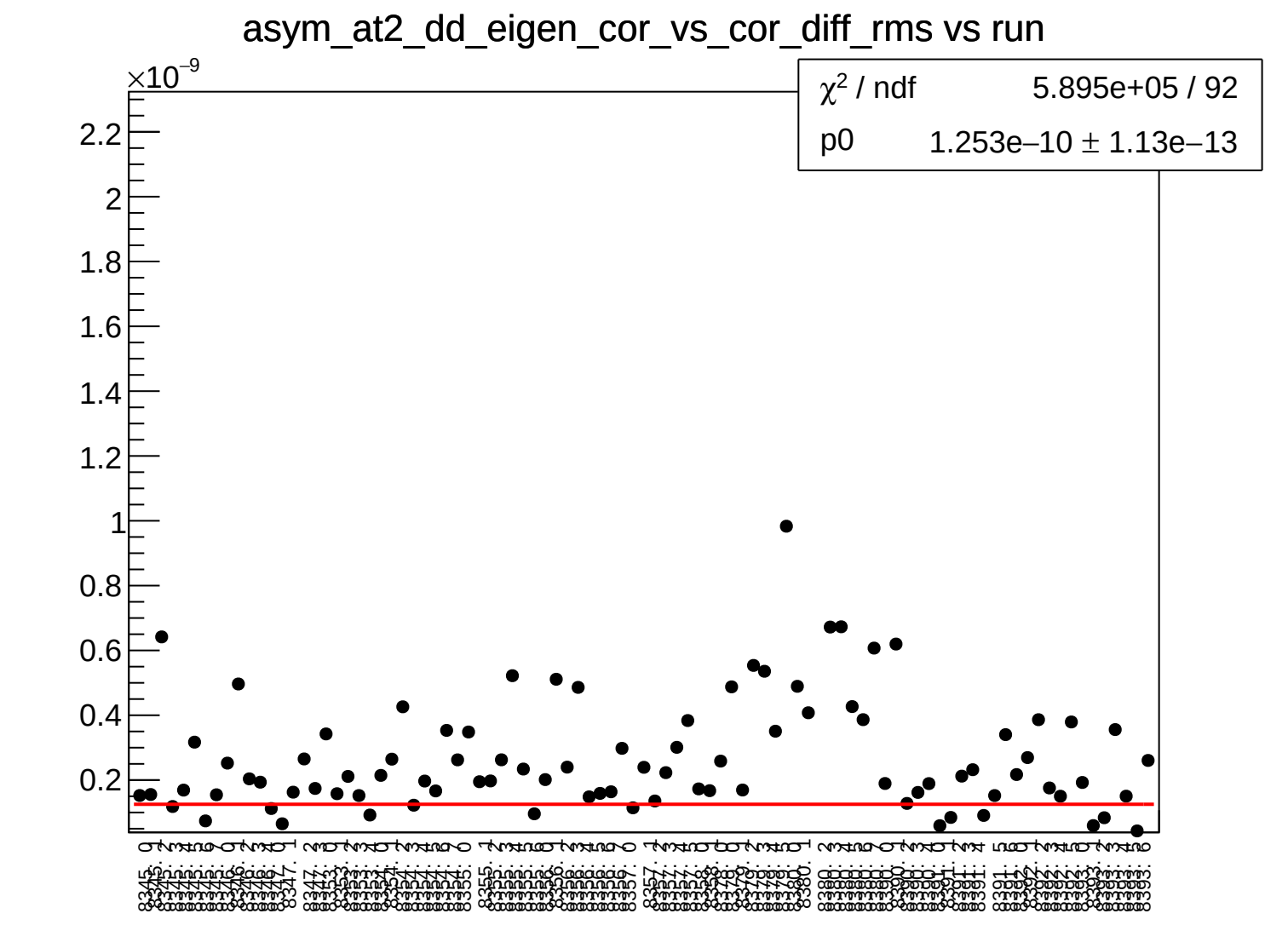

asym_at2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.065e+05 / 92
p0 52.87 ± 0.04164
140
120
100
80
60
40
20

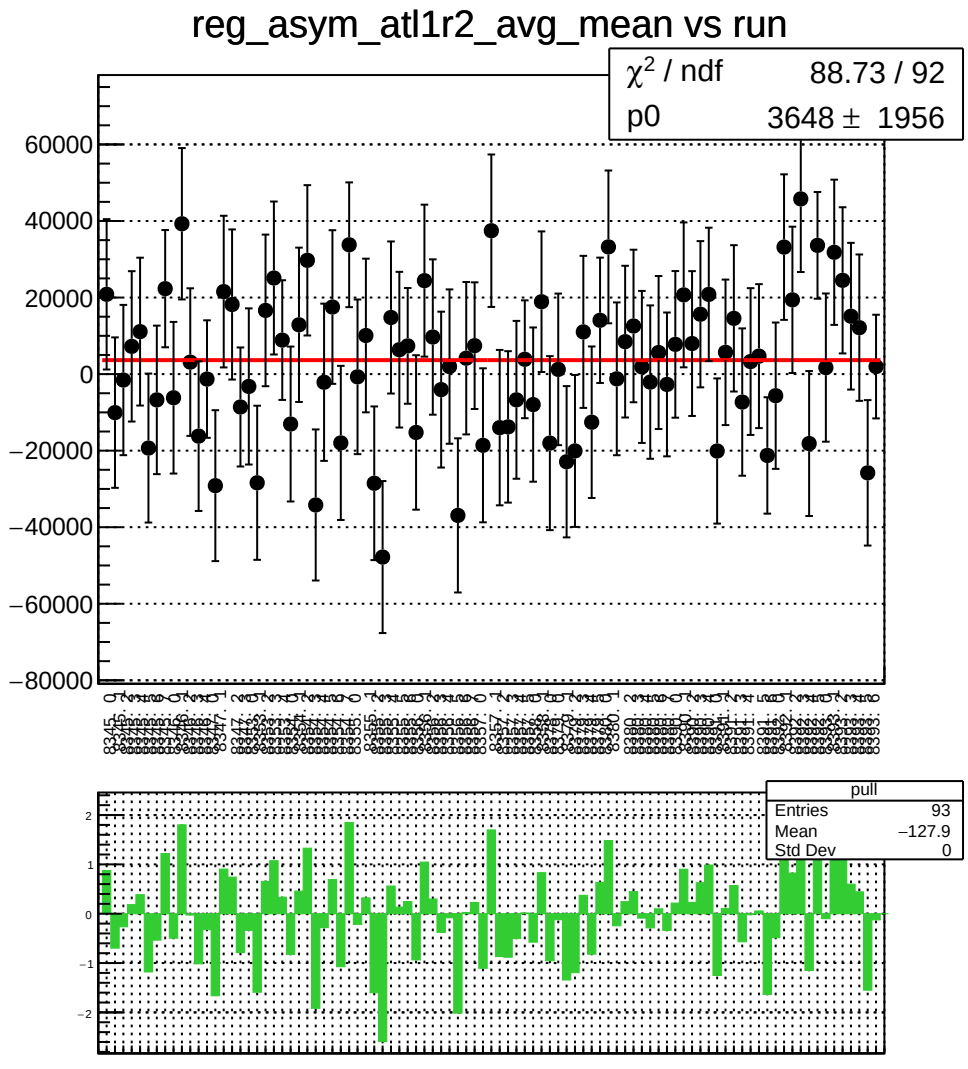

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.65 / 92
p0 0.03484 ± 0.05889
pull
Entries 93
Mean −96.96
Std Dev 0

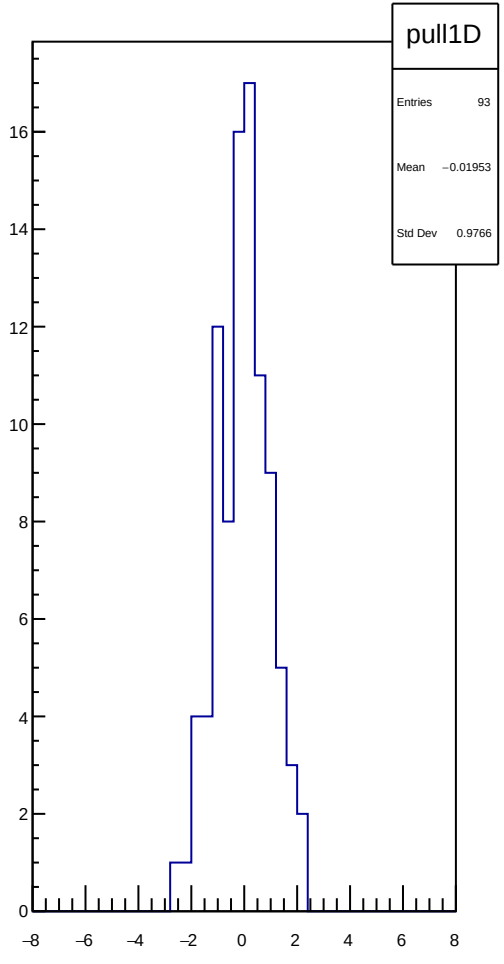

pull1D
Entries 93
Mean −0.01445
Std Dev 1.014

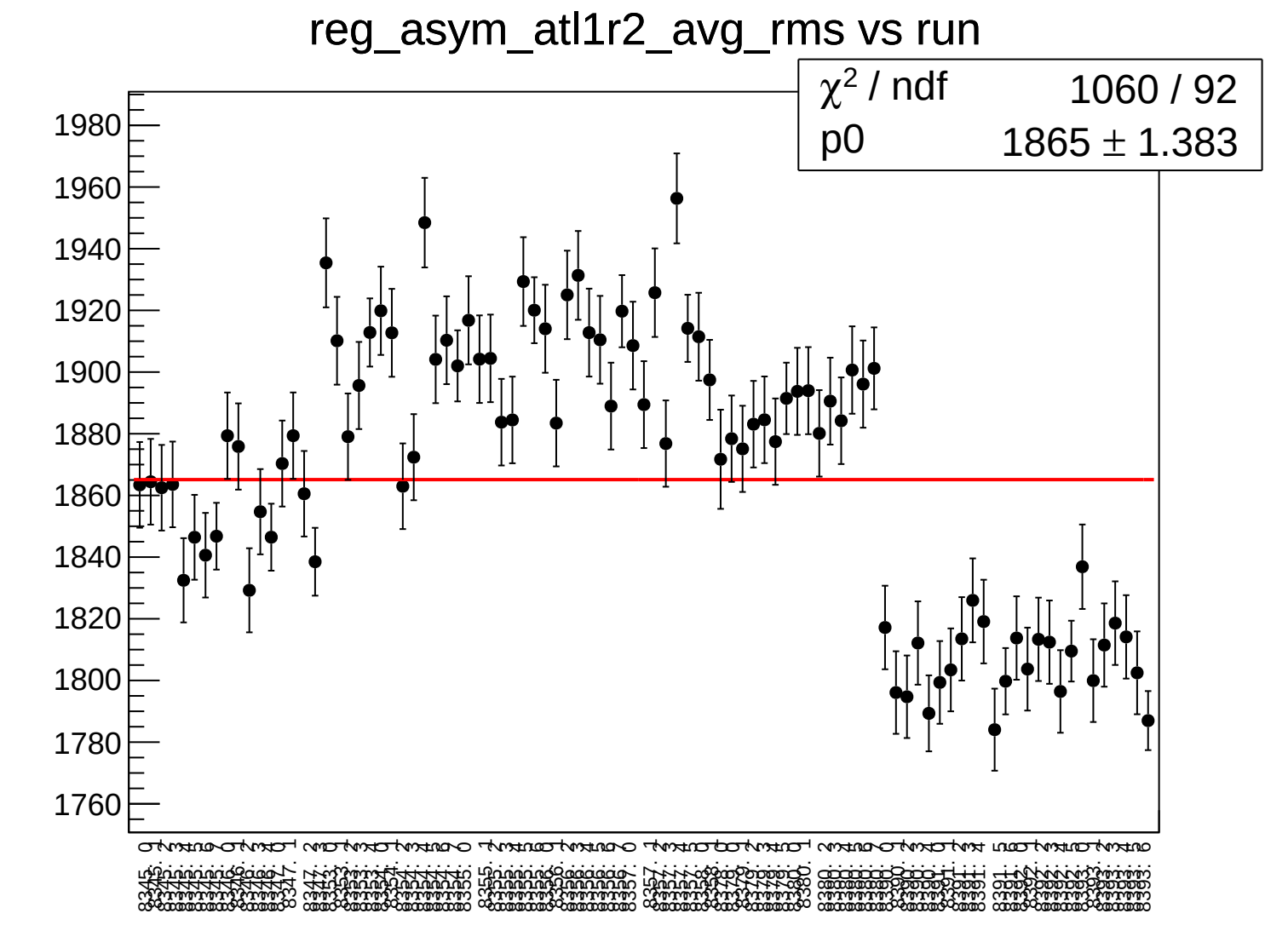

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.065e+05 / 92
p0 52.87 ± 0.04164
140
120
100
80
60
40
20

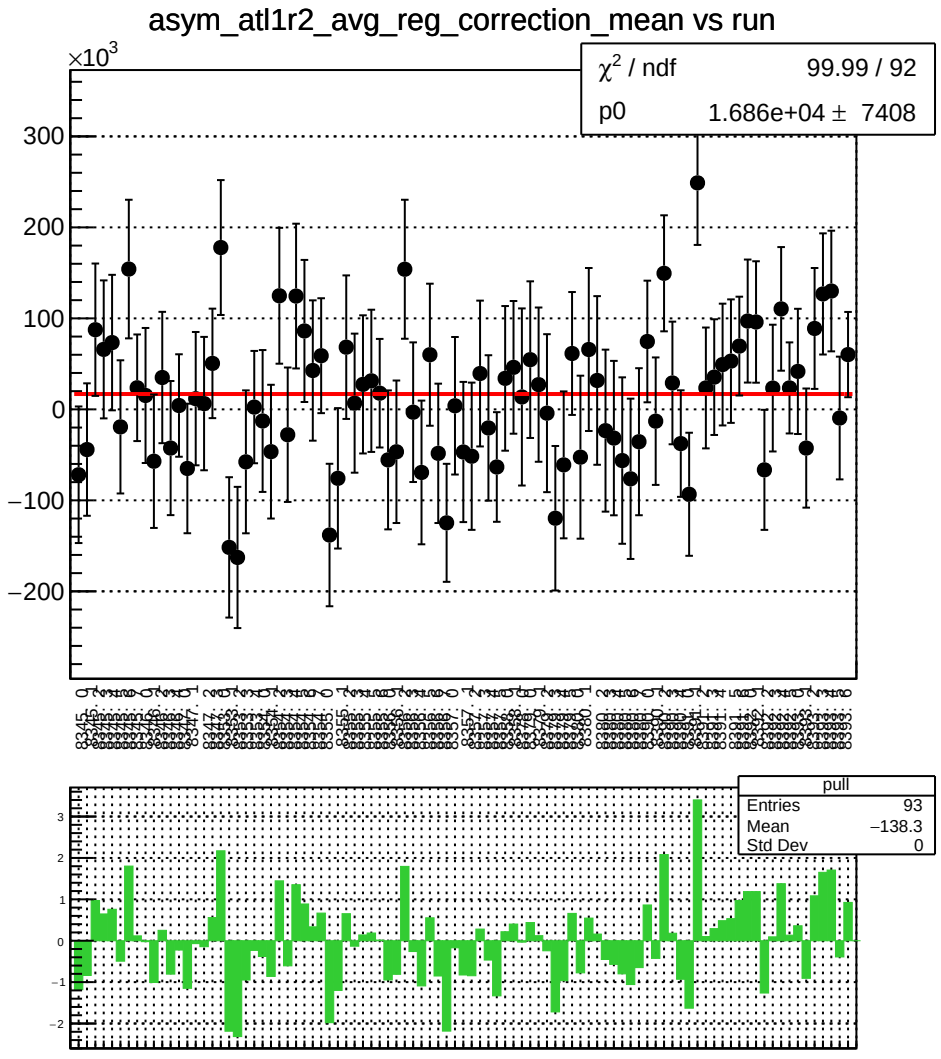

asym_at2_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 109.4 / 92
p0 −1.321e−13 ± 1.598e−13
pull
Entries 93
Mean −15.15
Std Dev 0
pull1D
Entries 93
Mean 0.0529
Std Dev 1.083

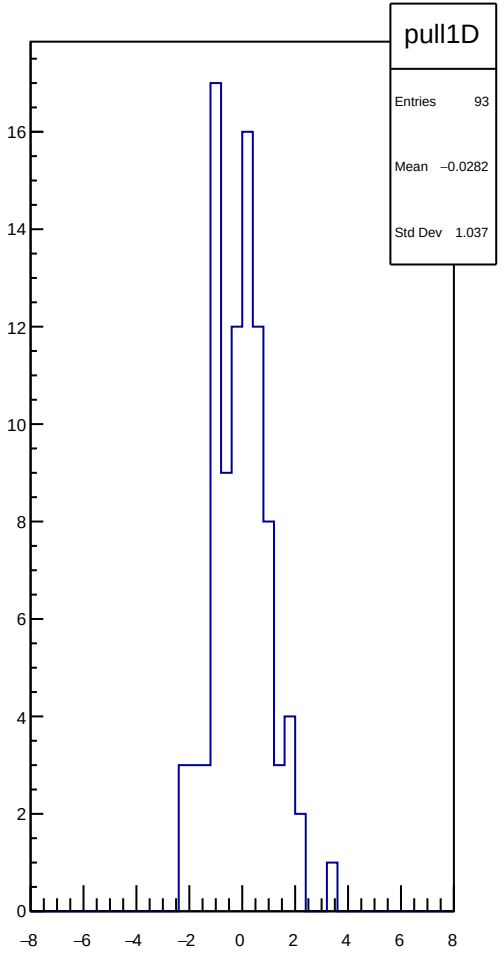

asym_at2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.895e+05 / 92
p0 1.253e−10 ± 1.13e−13
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

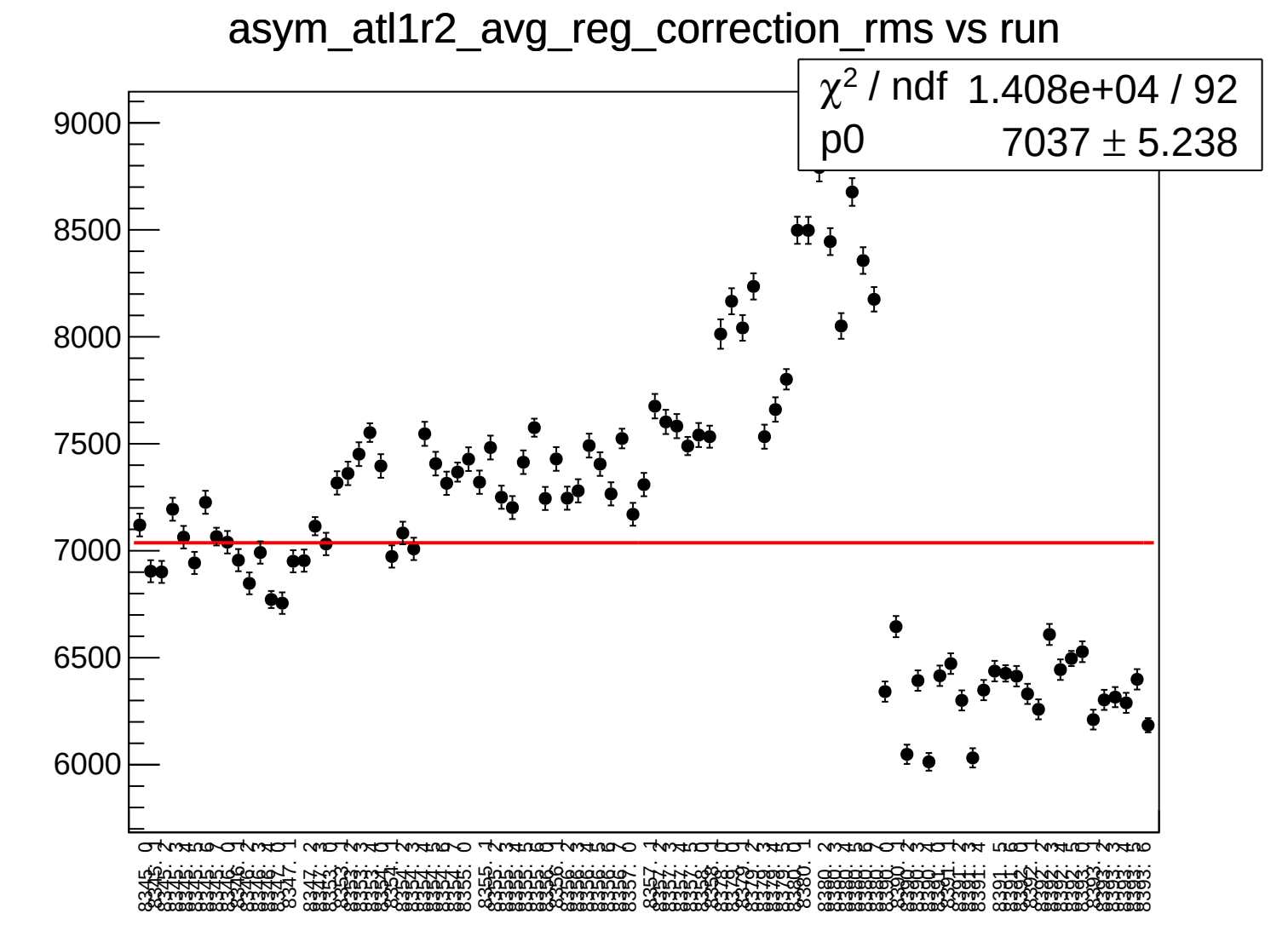

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 88.73 / 92
p0 3648 ± 1956
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean −127.9
Std Dev 0
2
1
0
−1
−2

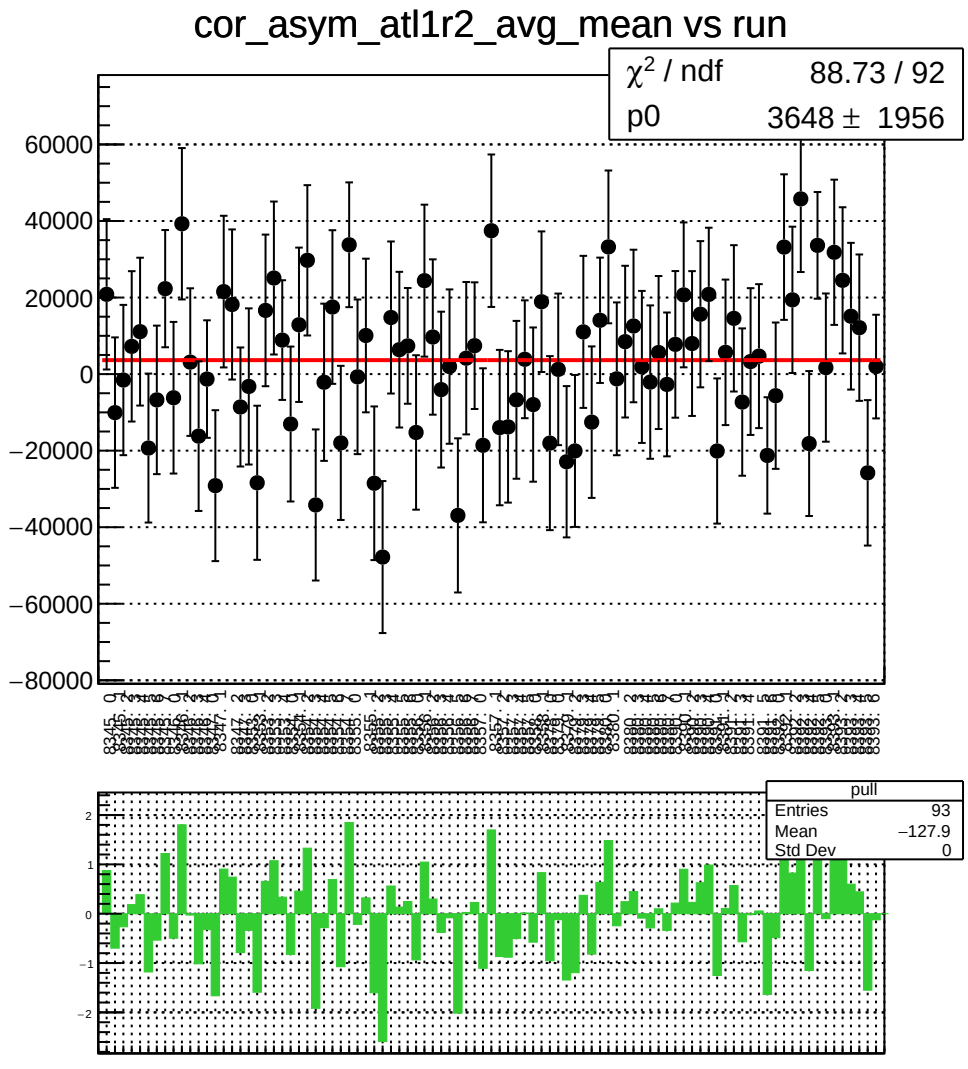

pull1D
Entries 93
Mean −0.01953
Std Dev 0.9766
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

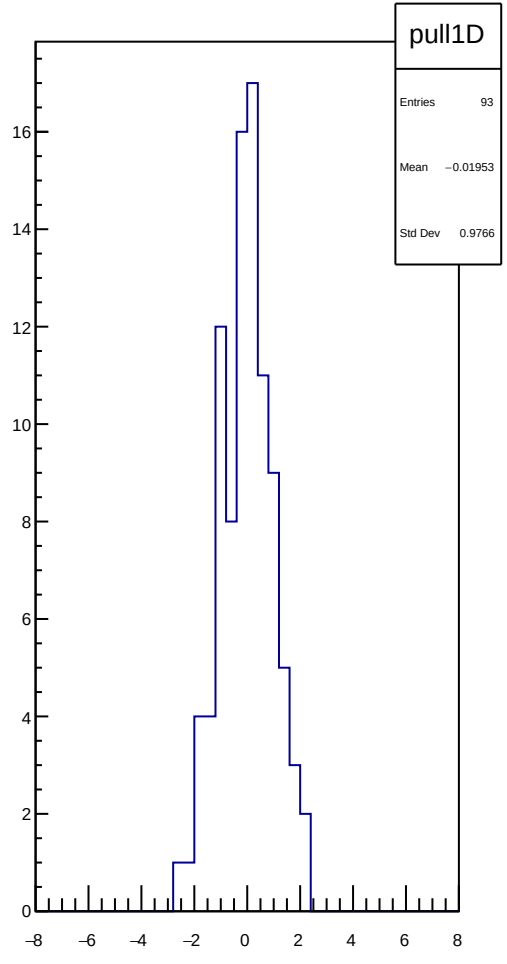

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 1060 / 92
p0 1865 ± 1.383
1980
1960
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760

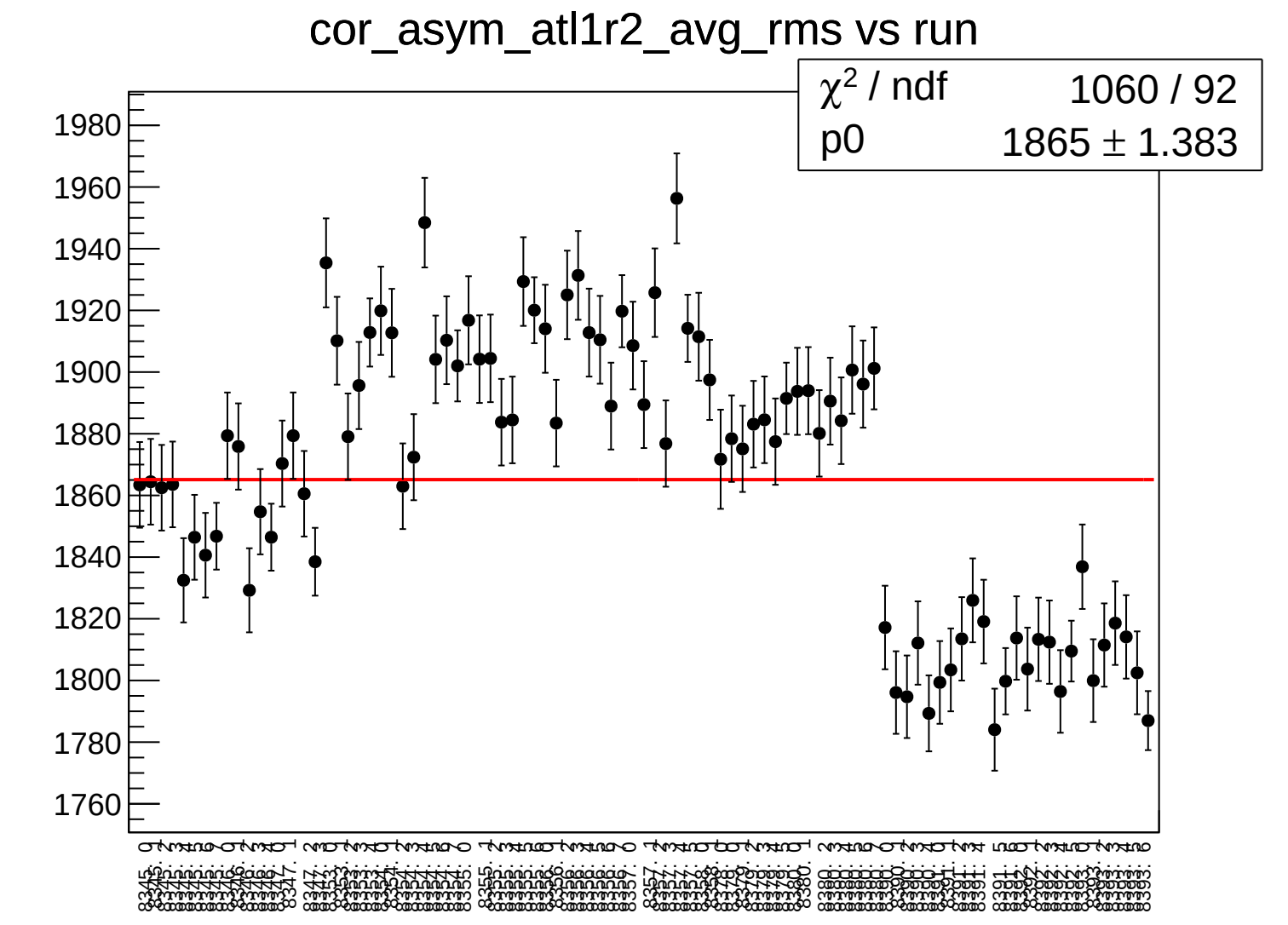

asym_atl1r2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 99.99 / 92
p0 1.686e+04 ± 7408
300
200
100
0
−100
−200
pull
Entries 93
Mean −138.3
Std Dev 0
3
2
1
0
−1
−2

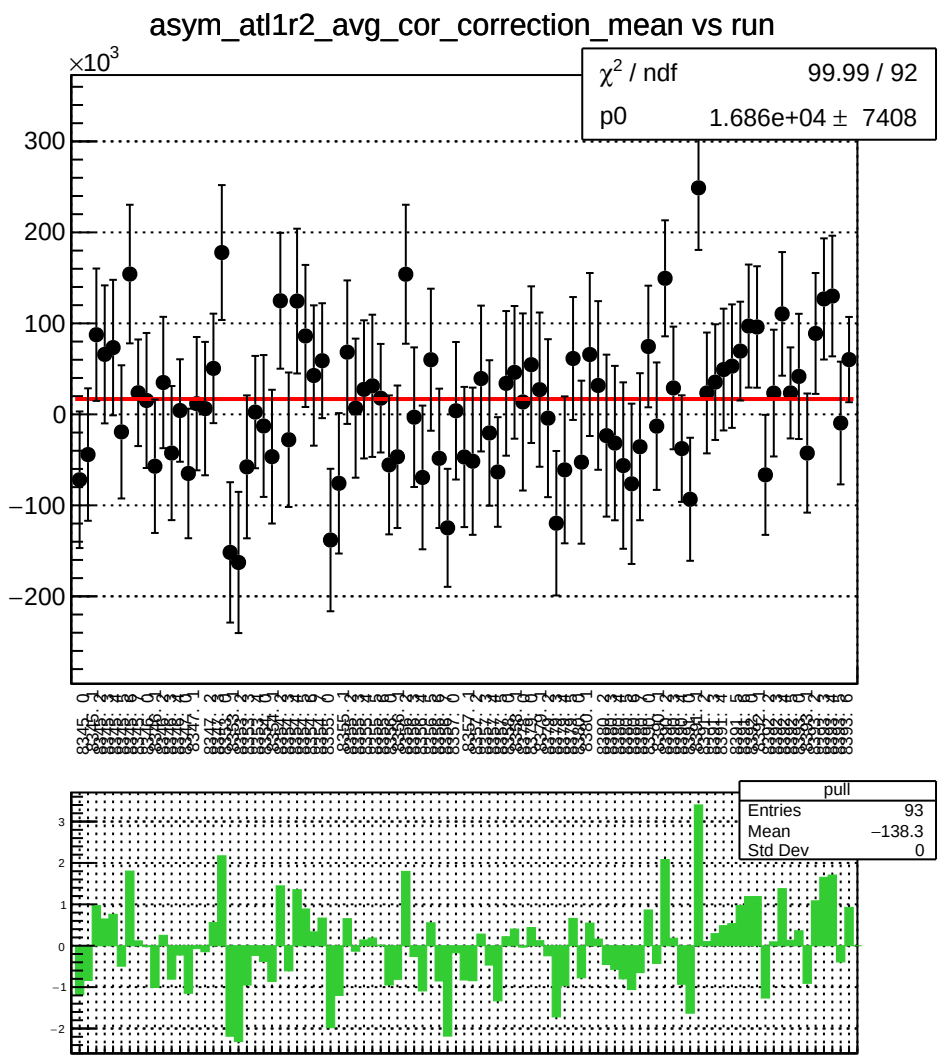

pull1D
Entries 93
Mean −0.0282
Std Dev 1.037
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

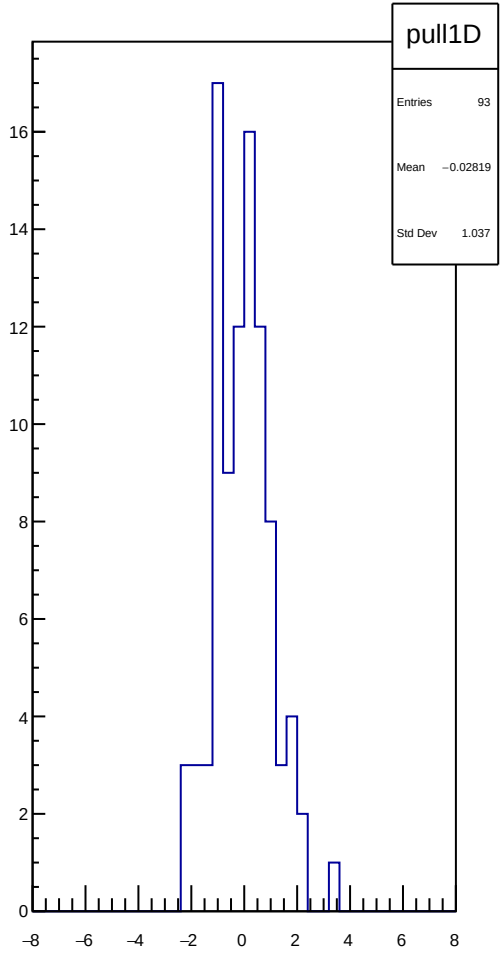

asym_atl1r2_avg_reg_correction_rms vs run
χ² / ndf 1.408e+04 / 92
p0 7037 ± 5.238
9000
8500
8000
7500
7000
6500
6000

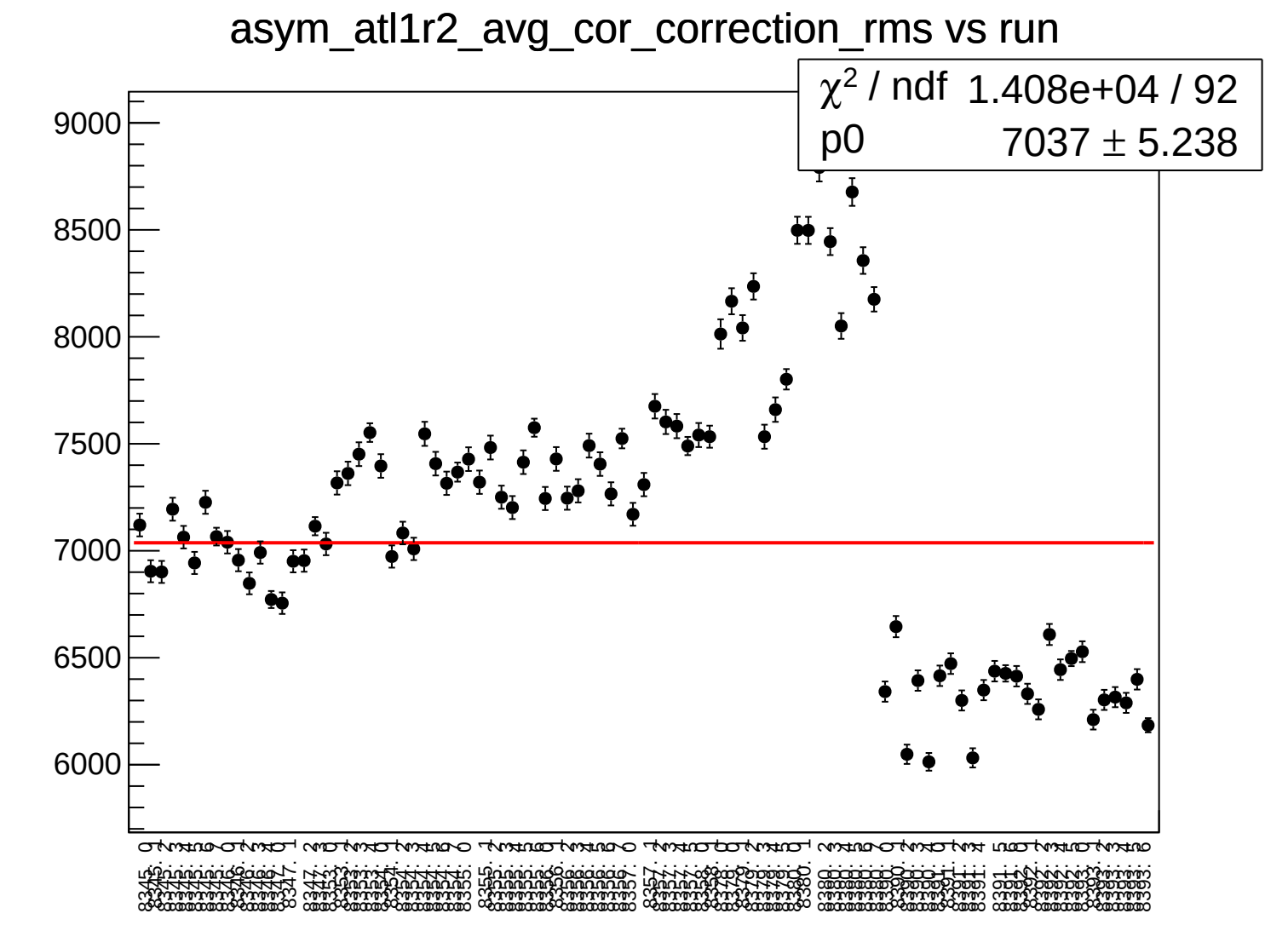

cor_asym_atl1r2_avg_mean vs run
χ² / ndf 88.73 / 92
p0 3648 ± 1956
pull
Entries 93
Mean −127.9
Std Dev 0

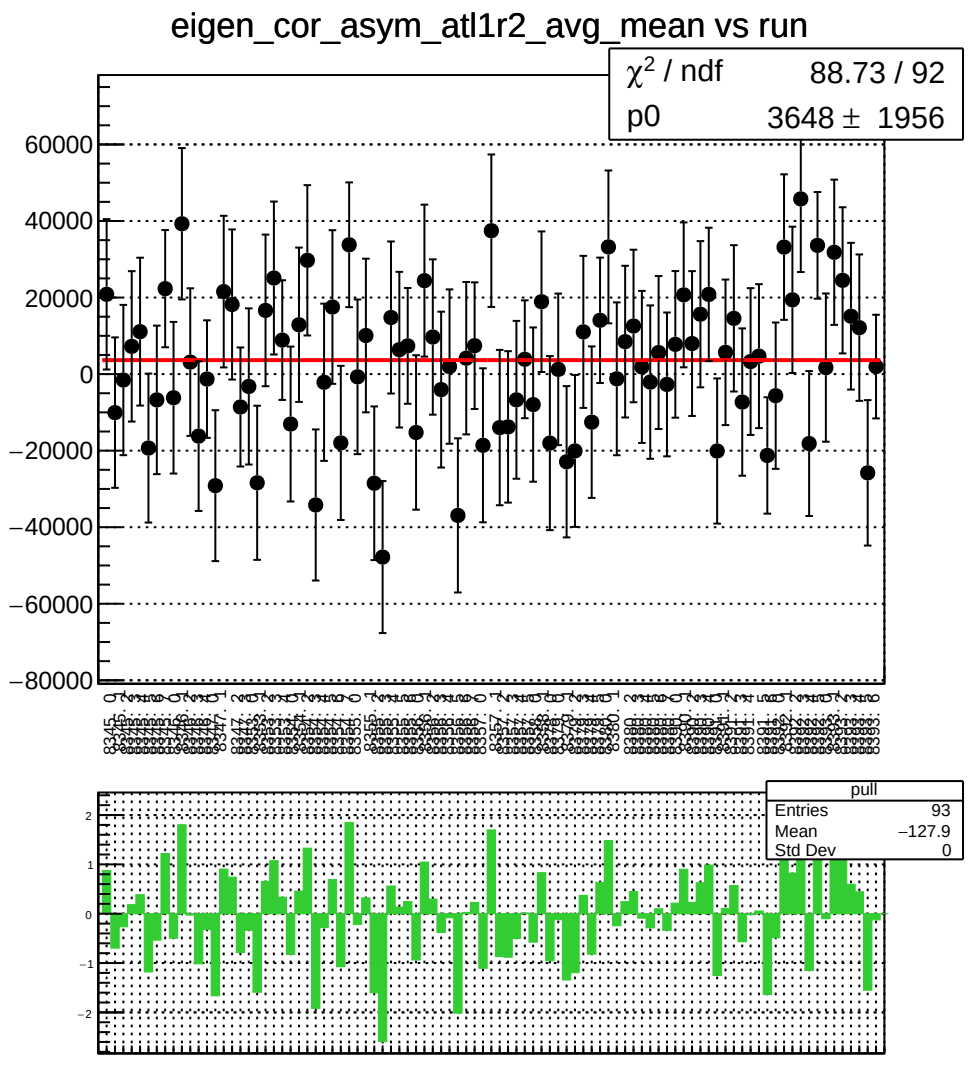

pull1D
Entries 93
Mean −0.01953
Std Dev 0.9766

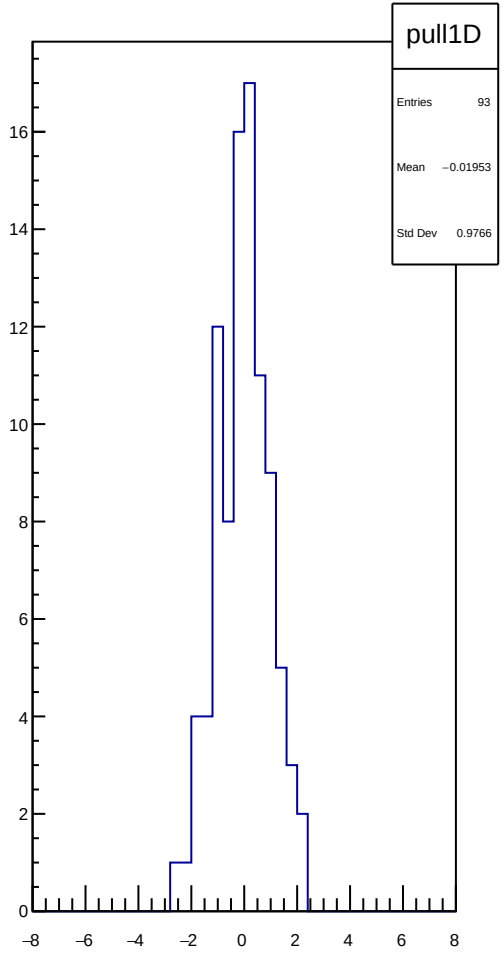

cor_asym_atl1r2_avg_rms vs run
χ² / ndf 1060 / 92
p0 1865 ± 1.383
1980
1960
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760

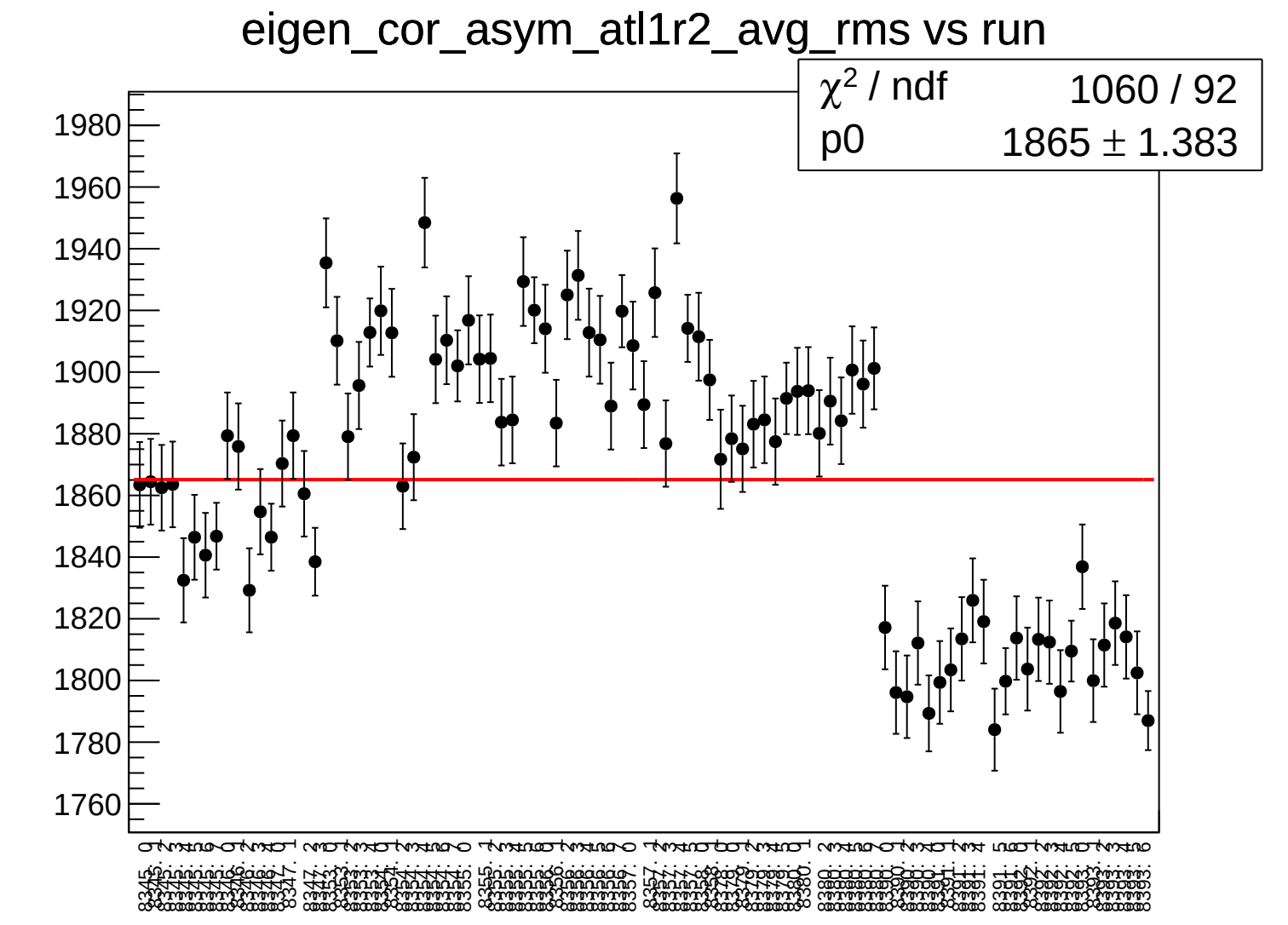

asym_atl1r2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 99.99 / 92
p0 1.686e+04 ± 7408
300
200
100
0
−100
−200
pull
Entries 93
Mean −138.3
Std Dev 0
3
2
1
0
−1
−2

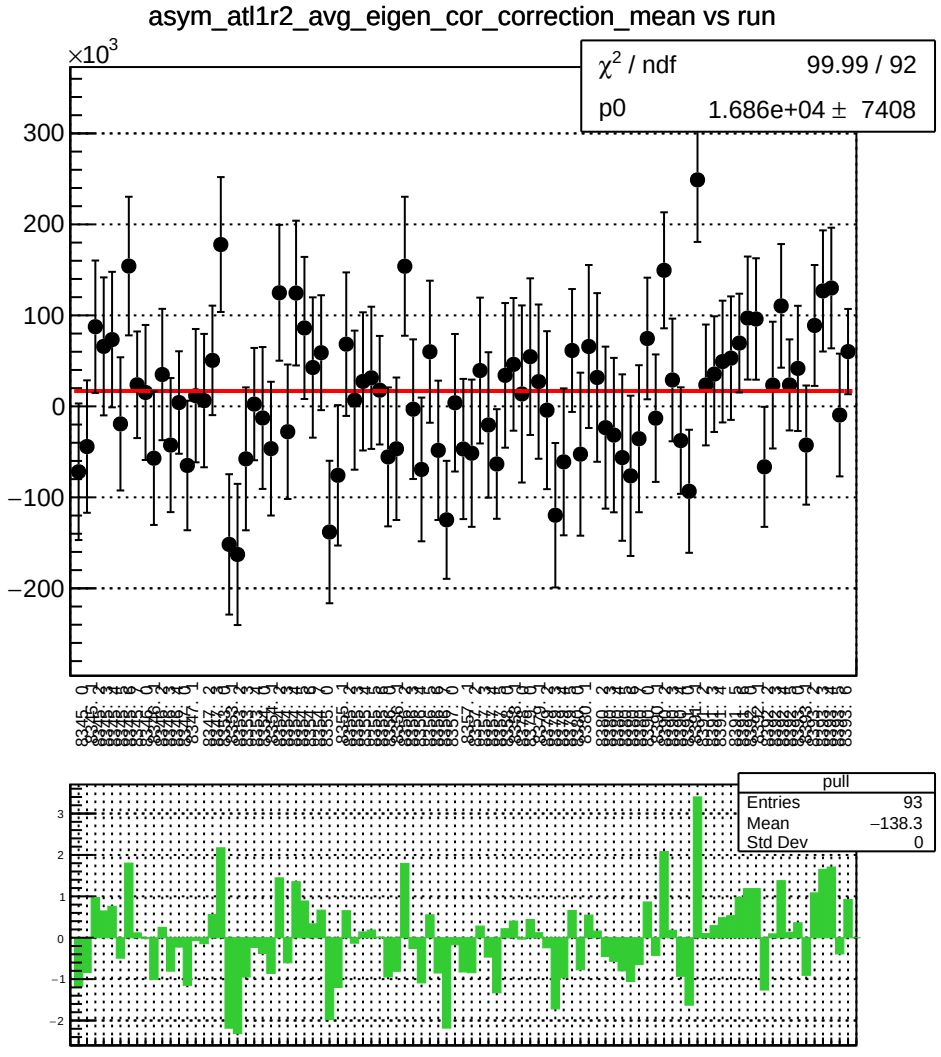

pull1D
Entries 93
Mean −0.02819
Std Dev 1.037
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

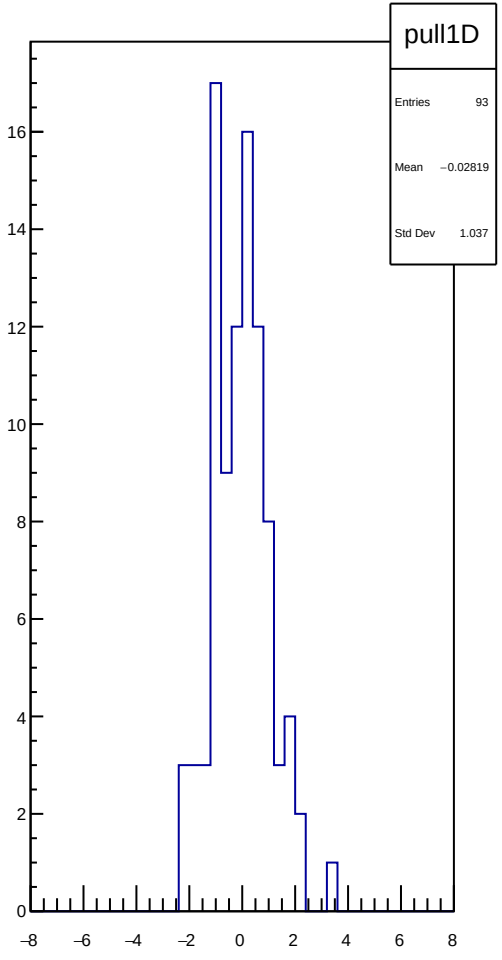

asym_atl1r2_avg_cor_correction_rms vs run
χ² / ndf 1.408e+04 / 92
p0 7037 ± 5.238
9000
8500
8000
7500
7000
6500
6000

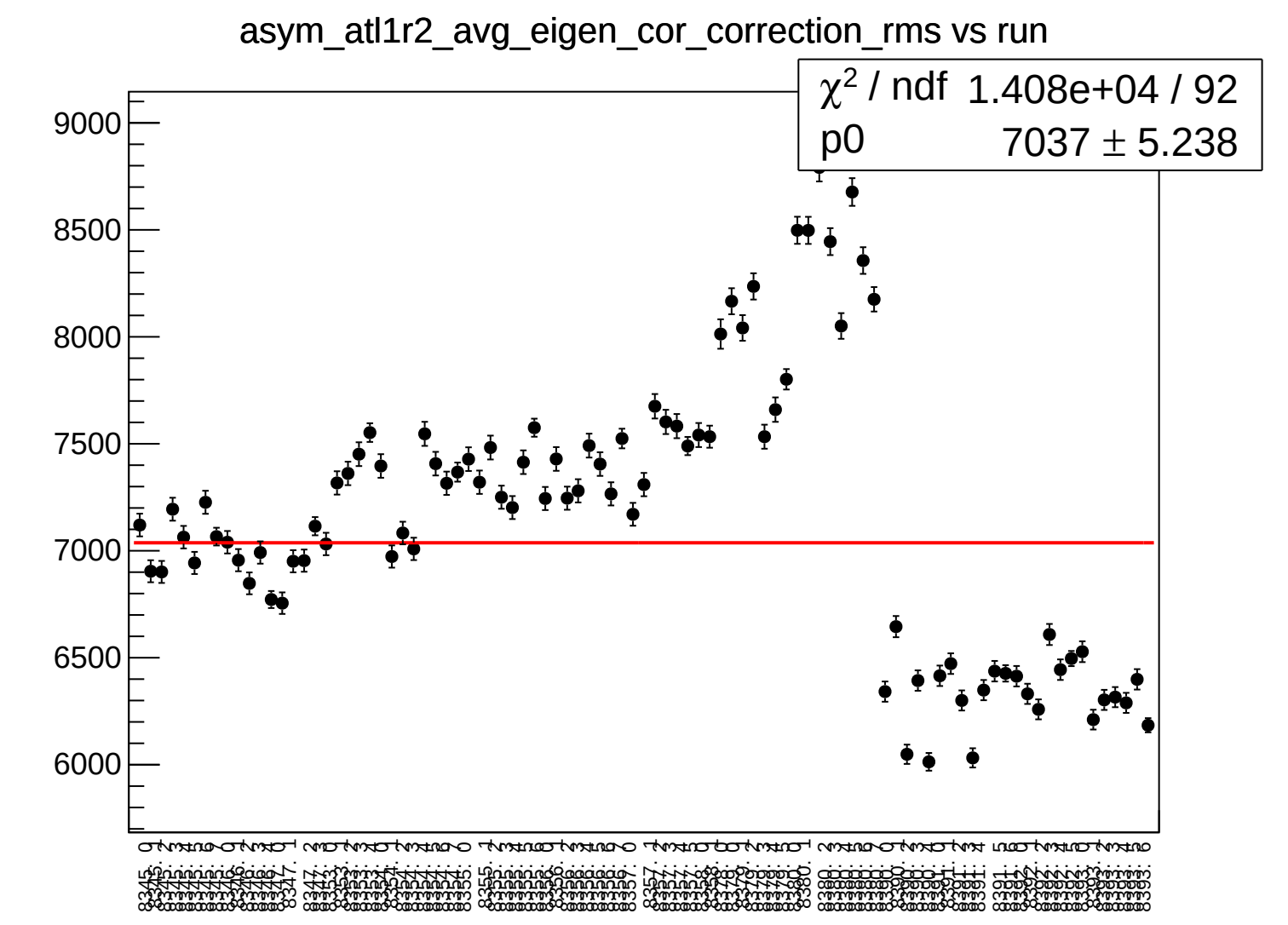

eigen_cor_asym_atl1r2_avg_mean vs run
χ² / ndf 88.73 / 92
p0 3648 ± 1956
pull
Entries 93
Mean −127.9
Std Dev 0

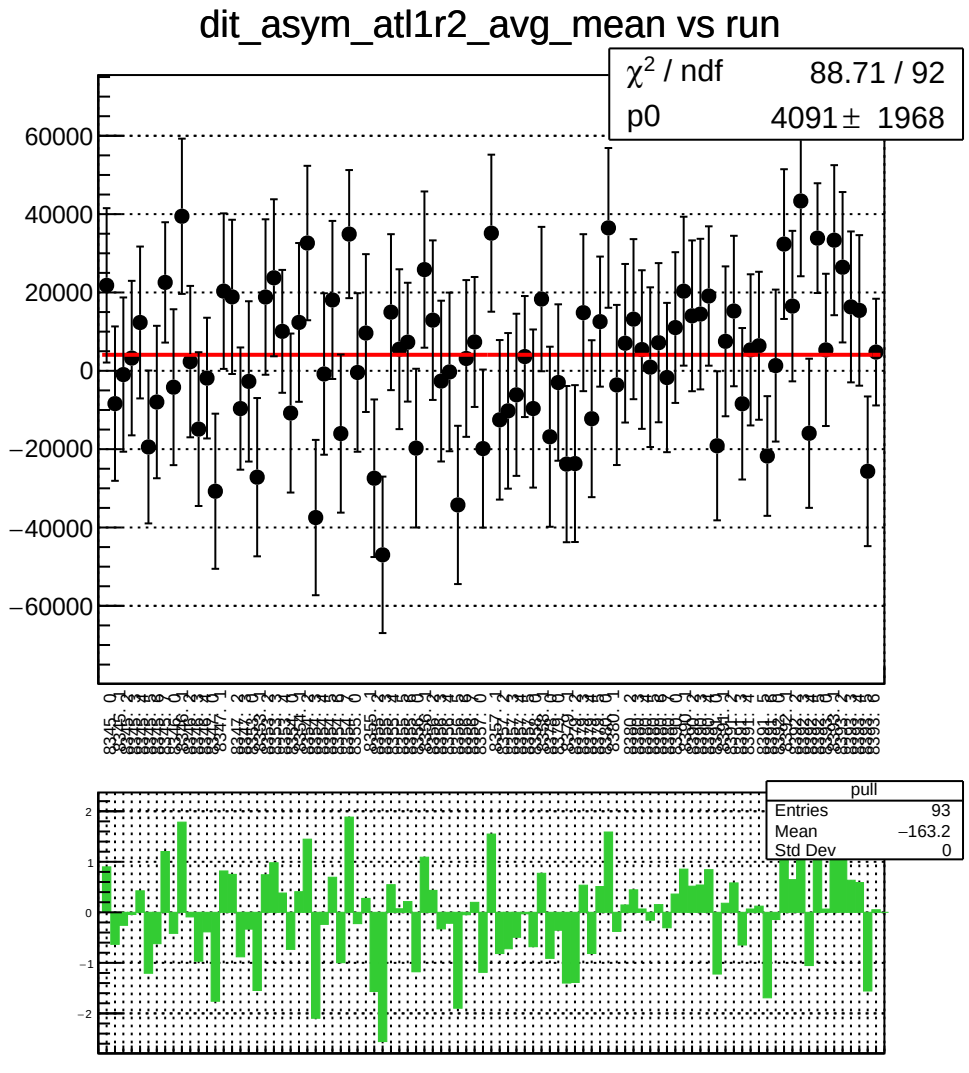

pull1D
Entries 93
Mean −0.01953
Std Dev 0.9766

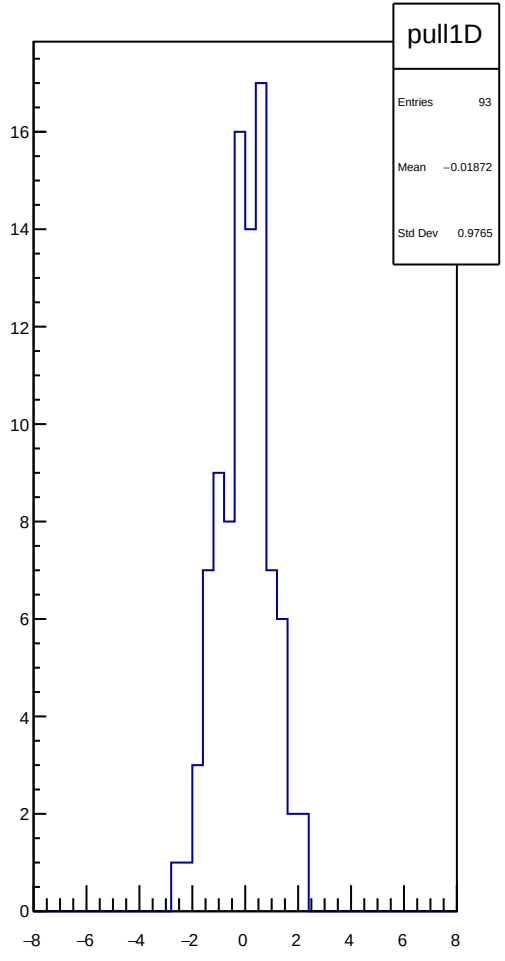

eigen_cor_asym_atl1r2_avg_rms vs run
χ² / ndf 1060 / 92
p0 1865 ± 1.383
1980
1960
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760

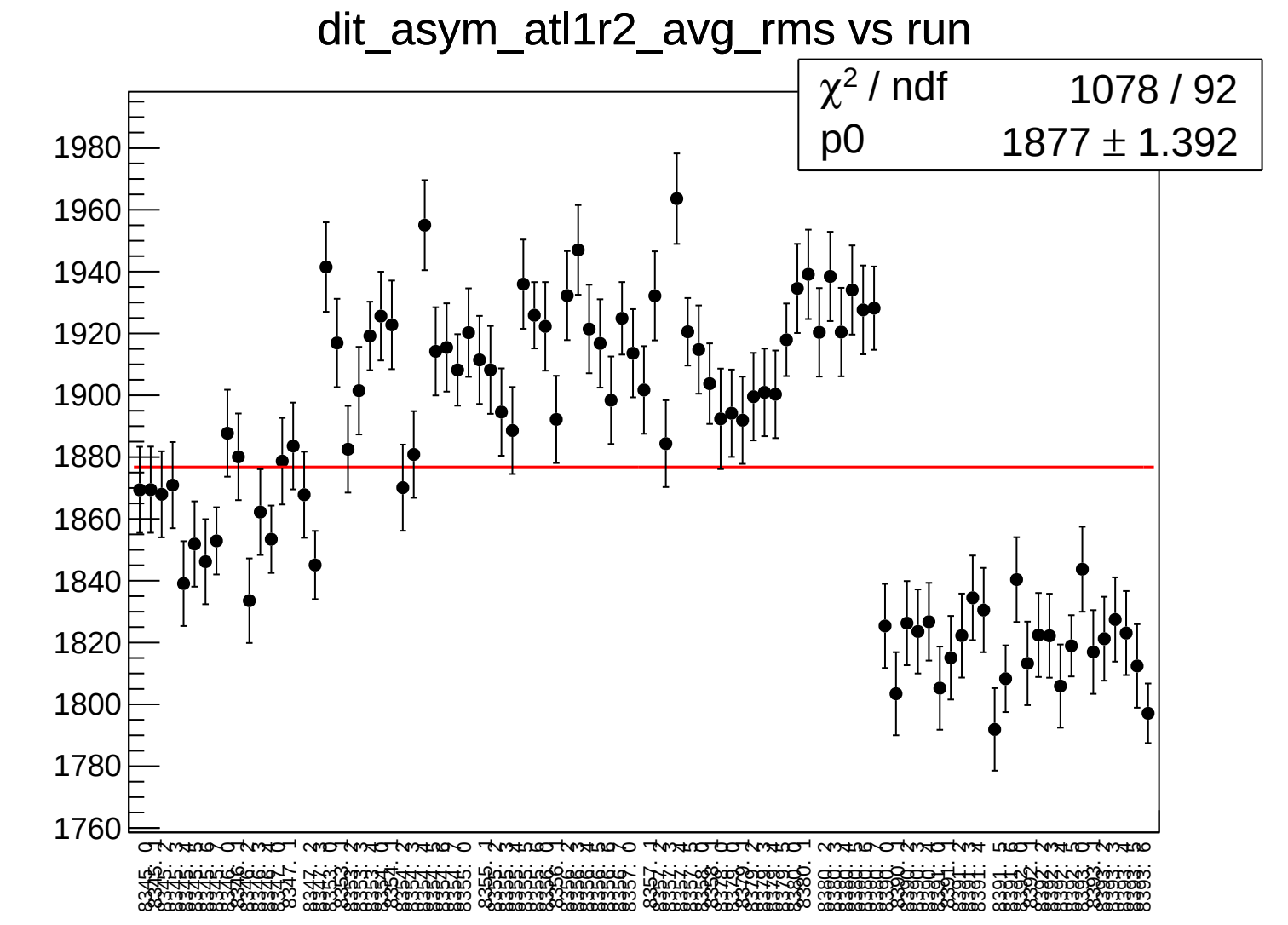

asym_atl1r2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 99.99 / 92
p0 1.686e+04 ± 7408
300
200
100
0
−100
−200
pull
Entries 93
Mean −138.3
Std Dev 0
3
2
1
0
−1
−2

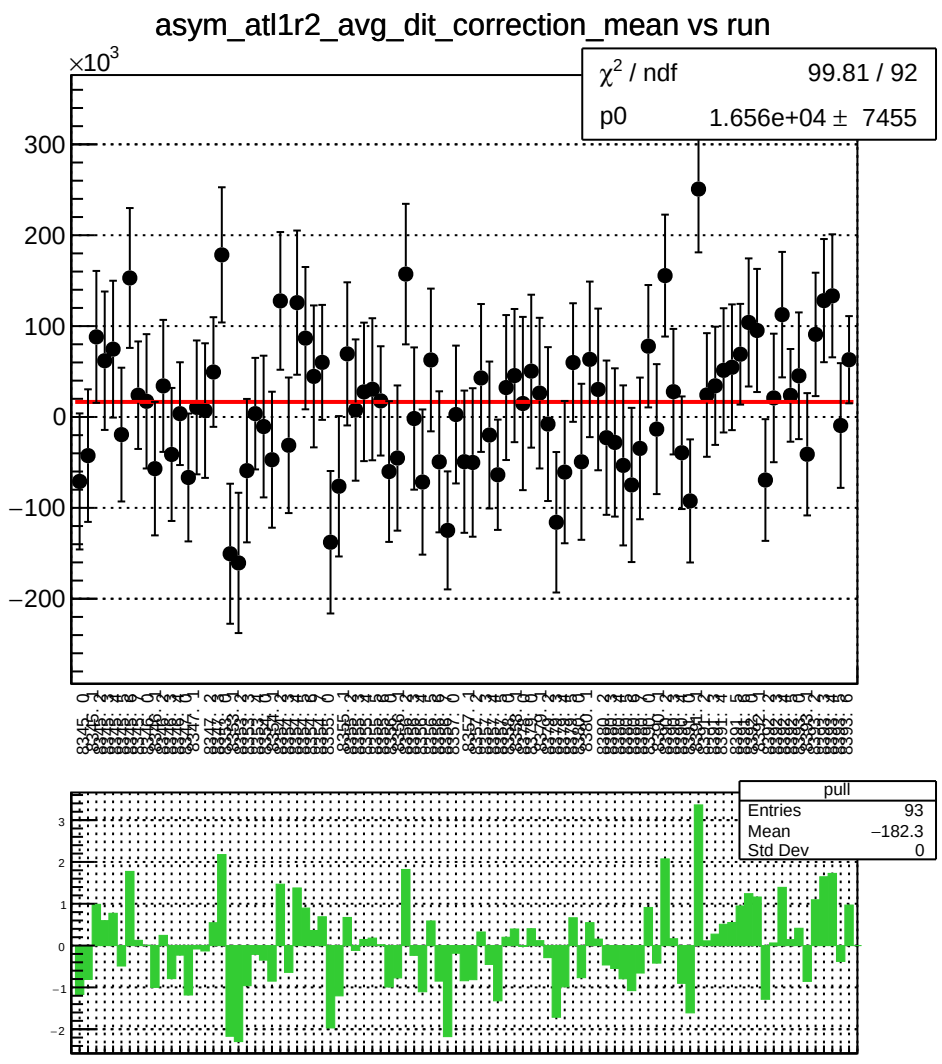

pull1D
Entries 93
Mean −0.02819
Std Dev 1.037
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

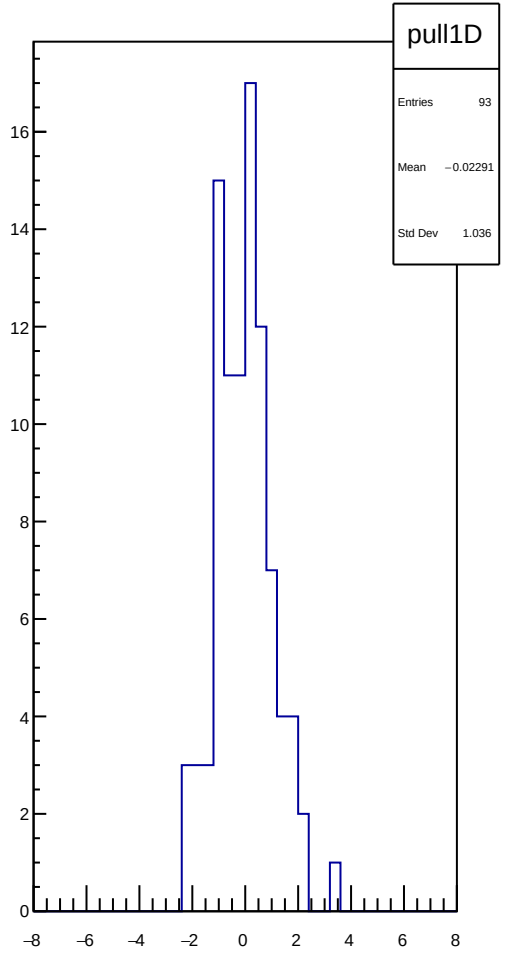

asym_atl1r2_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 1.408e+04 / 92
p0 7037 ± 5.238
9000
8500
8000
7500
7000
6500
6000

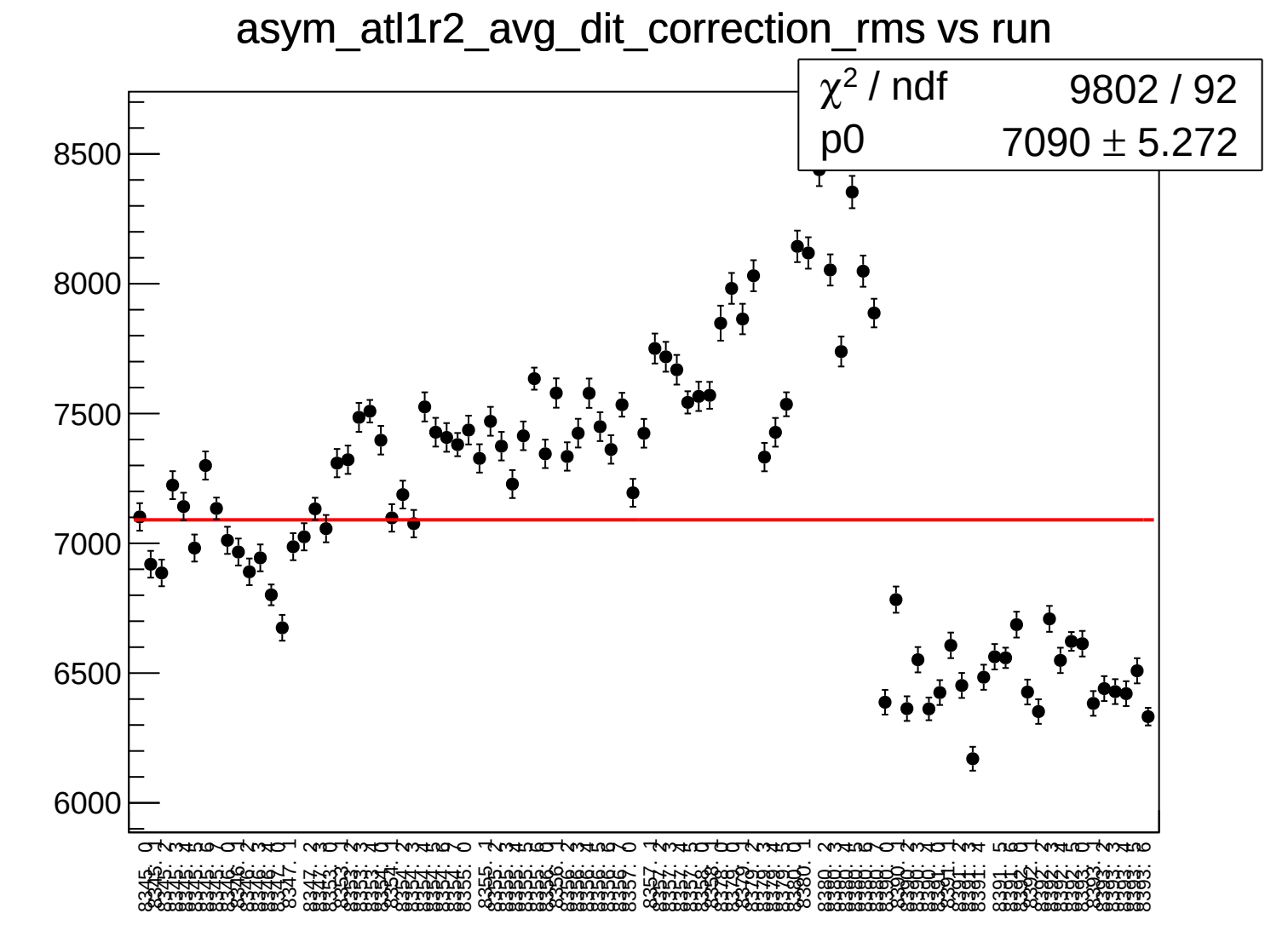

dit_asym_atl1r2_avg_mean vs run
χ² / ndf 88.71 / 92
p0 4091 ± 1968
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −163.2
Std Dev 0
2
1
0
−1
−2

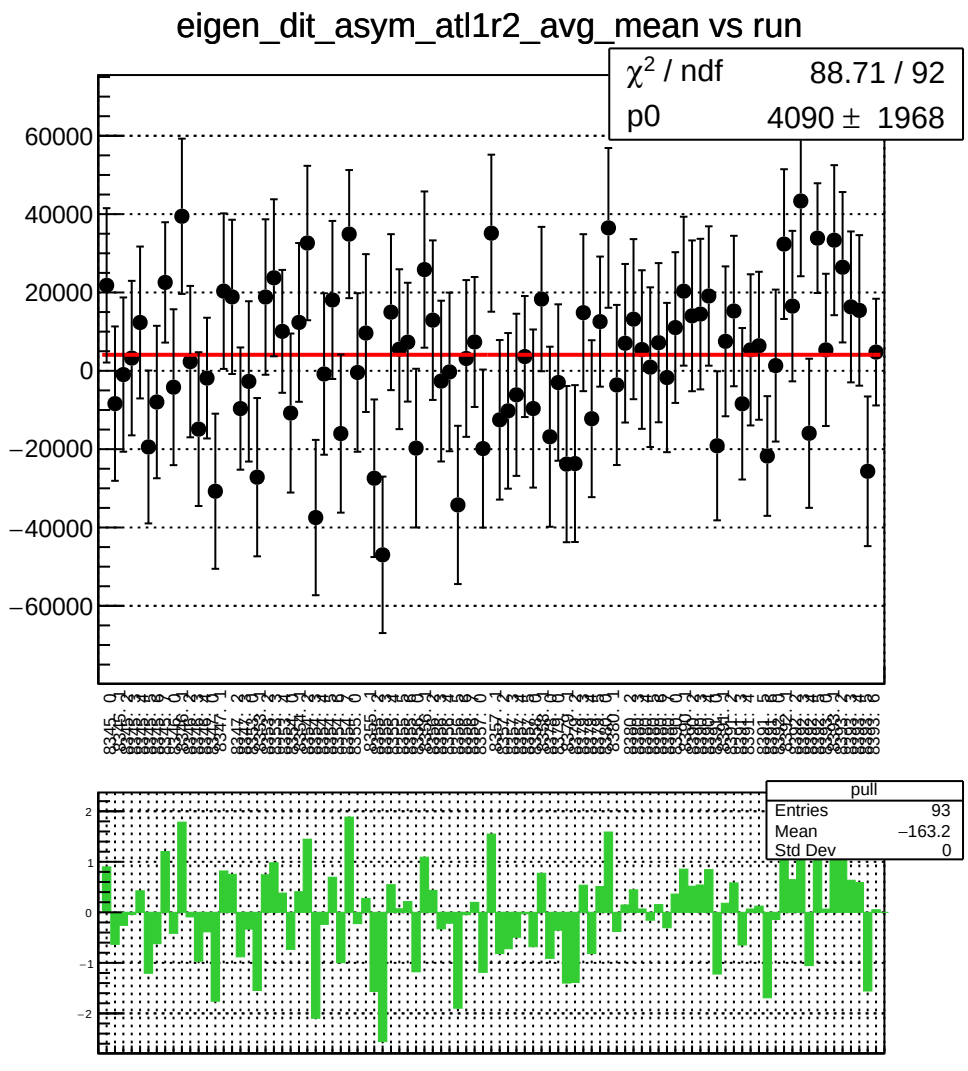

pull1D
Entries 93
Mean −0.01872
Std Dev 0.9765
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

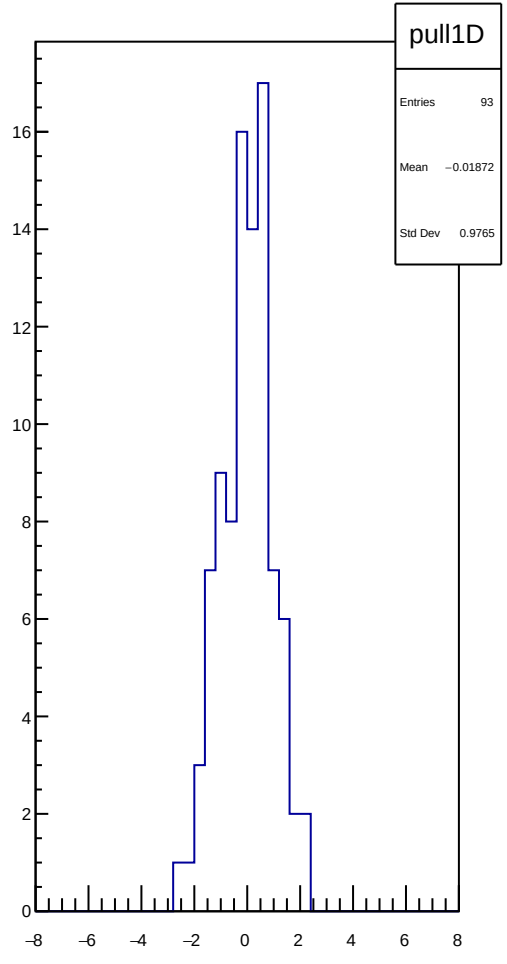

dit_asym_atl1r2_avg_rms vs run
χ² / ndf 1078 / 92
p0 1877 ± 1.392
1980
1960
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760

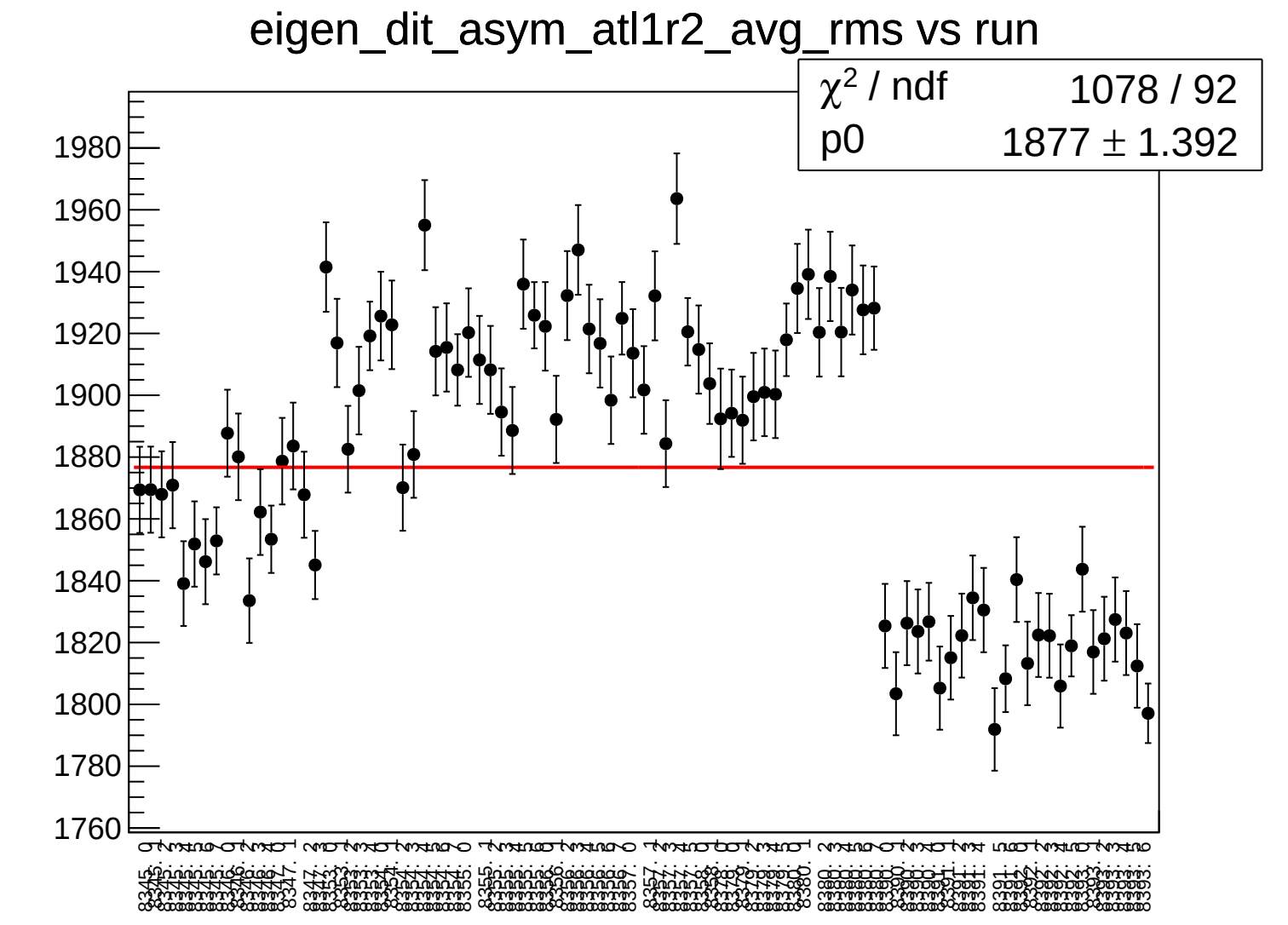

asym_atl1r2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 99.81 / 92
p0 1.656e+04 ± 7455
300
200
100
0
−100
−200
pull
Entries 93
Mean −182.3
Std Dev 0
3
2
1
0
−1
−2

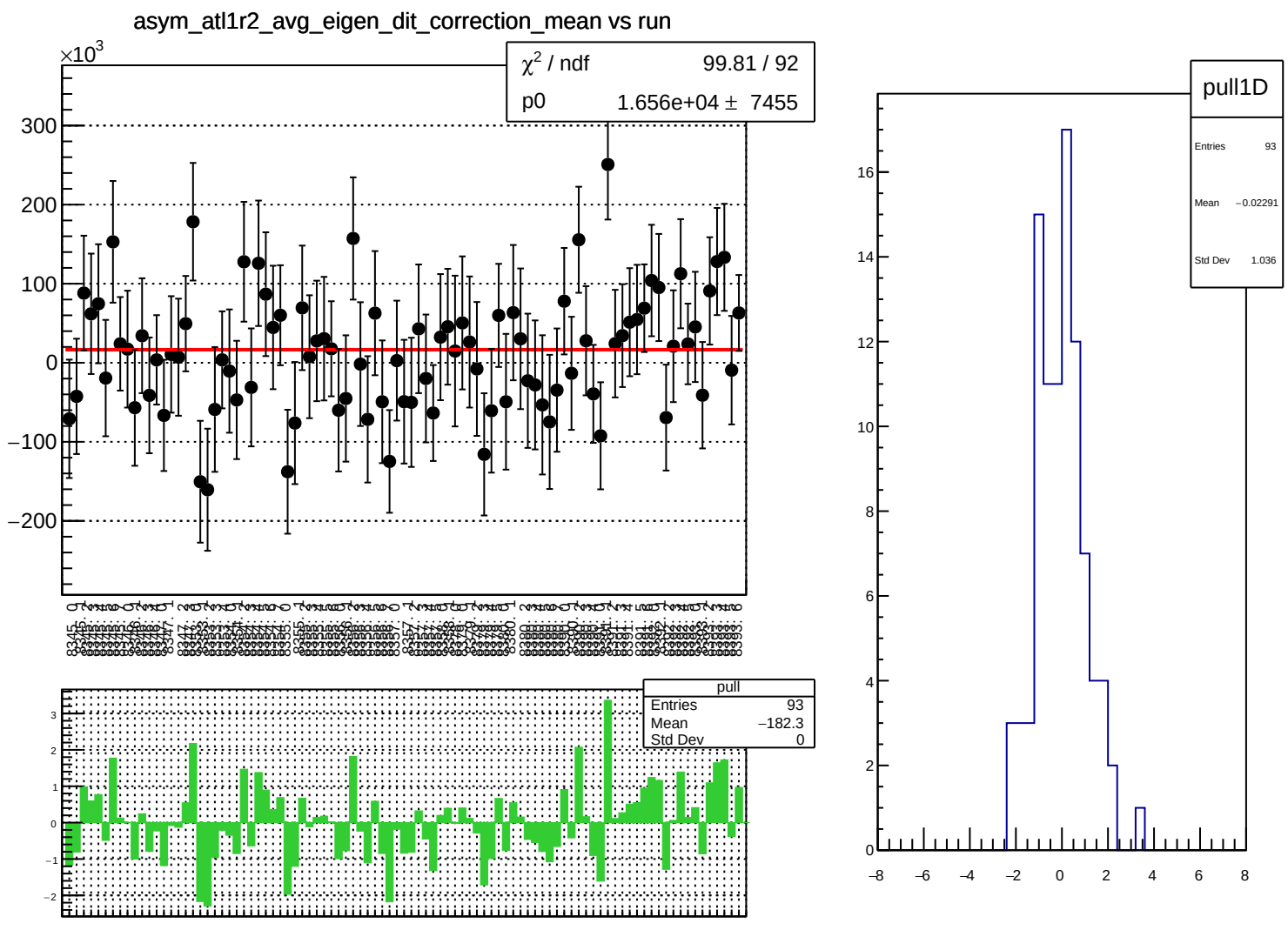

pull1D
Entries 93
Mean −0.02291
Std Dev 1.036
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

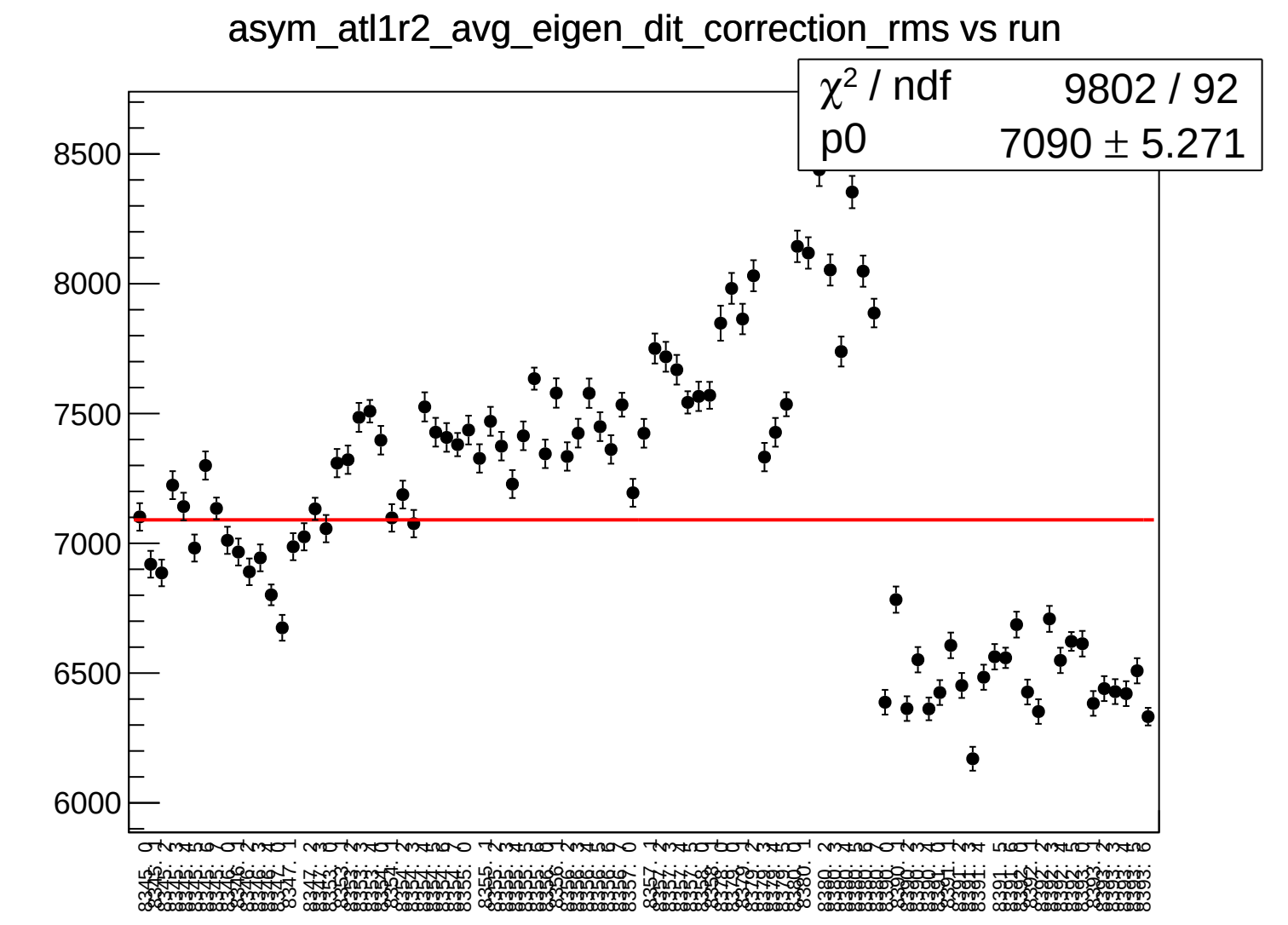

asym_atl1r2_avg_dit_correction_rms vs run
χ² / ndf 9802 / 92
p0 7090 ± 5.272
8500
8000
7500
7000
6500
6000

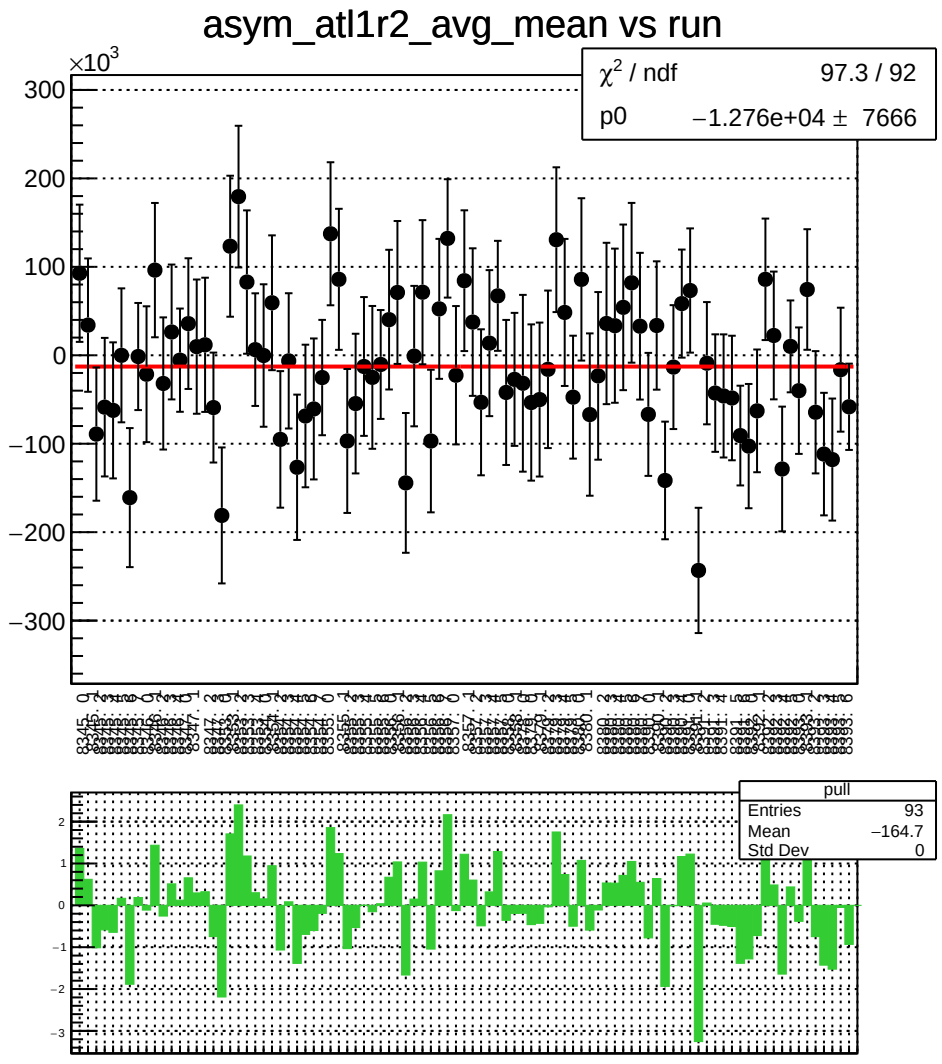

eigen_dit_asym_atl1r2_avg_mean vs run
χ² / ndf 88.71 / 92
p0 4090 ± 1968
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −163.2
Std Dev 0
2
1
0
−1
−2

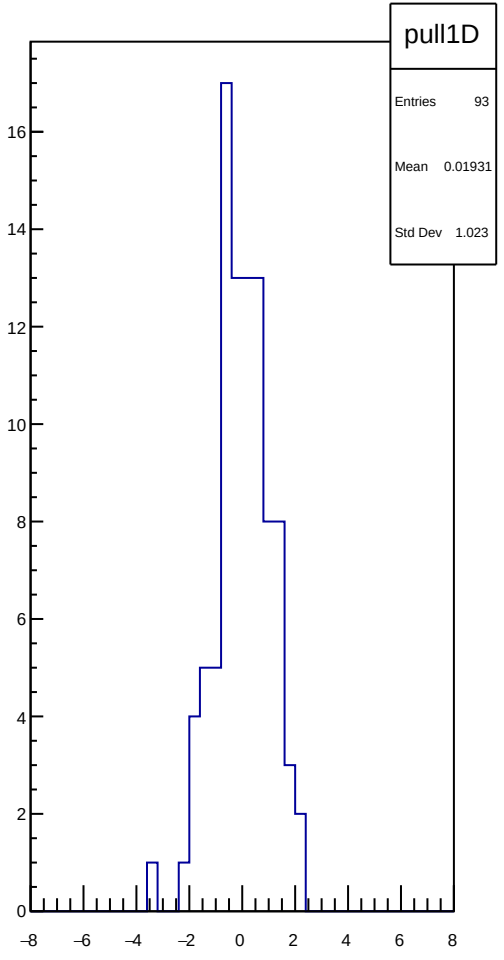

pull1D
Entries 93
Mean −0.01872
Std Dev 0.9765
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

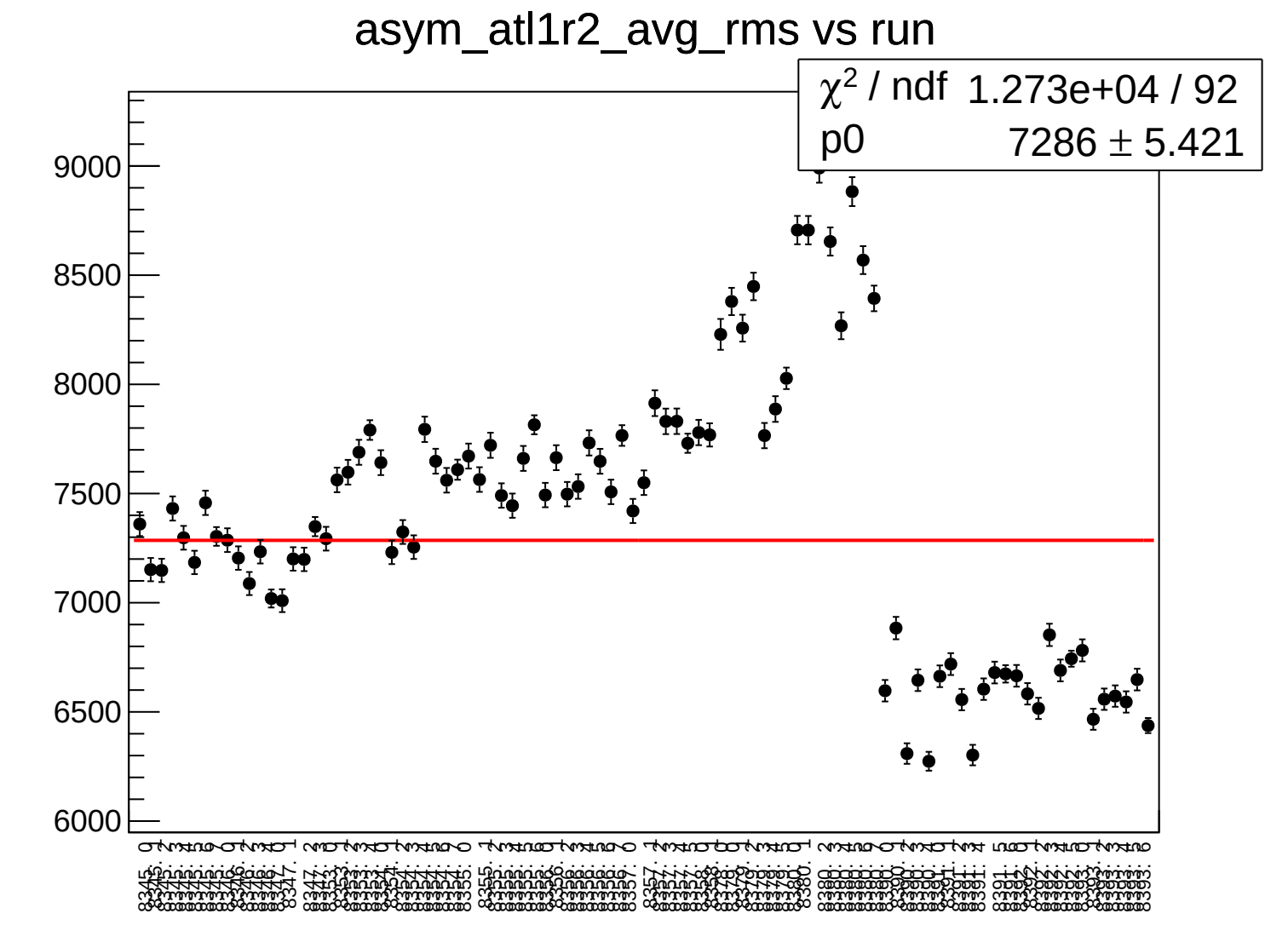

eigen_dit_asym_atl1r2_avg_rms vs run
χ^2 / ndf 1078 / 92
p0 1877 ± 1.392
1980
1960
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760

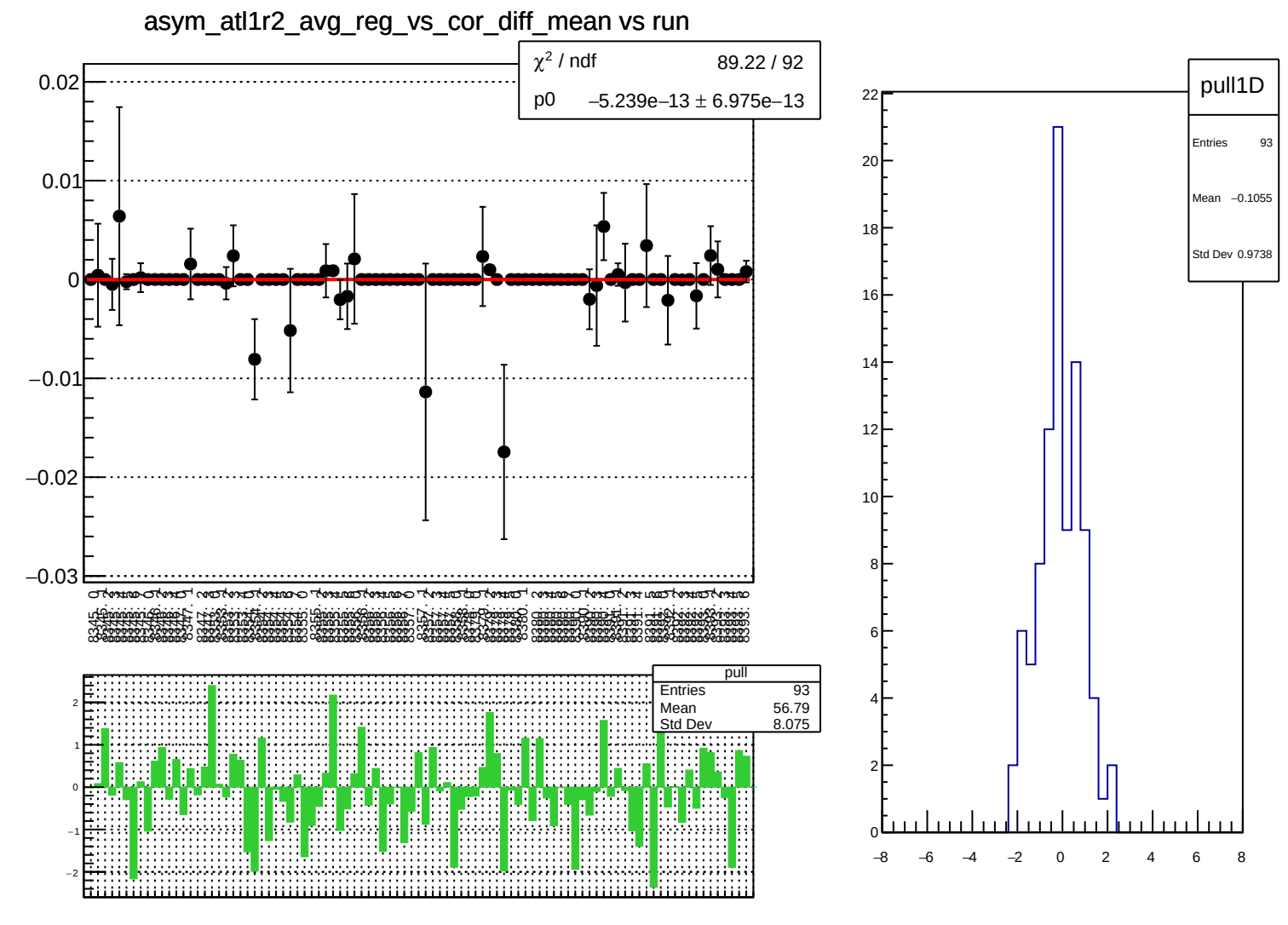

asym_atl1r2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 99.81 / 92
p0 1.656e+04 ± 7455
300
200
100
0
−100
−200
pull
Entries 93
Mean −182.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.02291
Std Dev 1.036
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

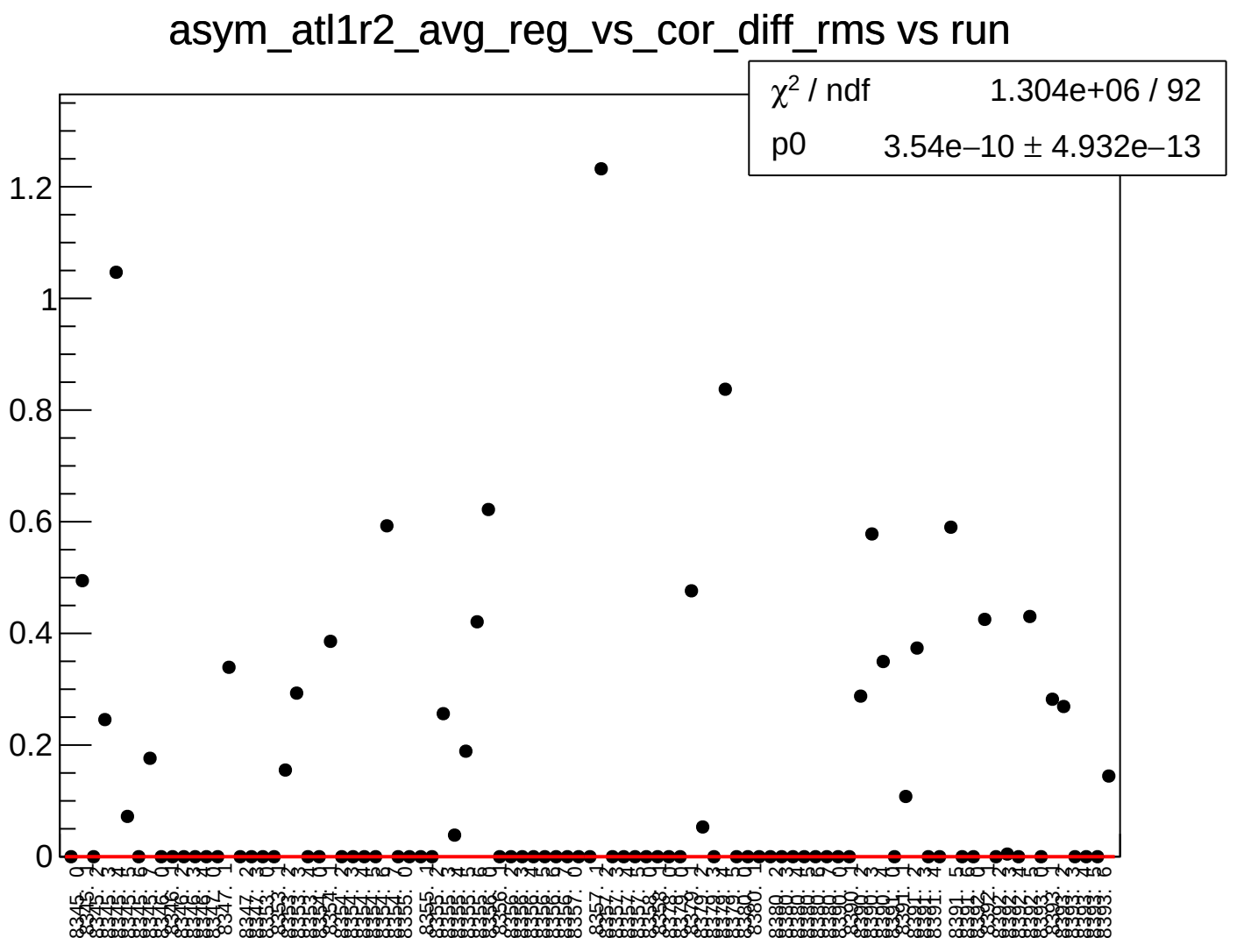

asym_atl1r2_avg_eigen_dit_correction_rms vs run
χ² / ndf 9802 / 92
p0 7090 ± 5.271
8500
8000
7500
7000
6500
6000

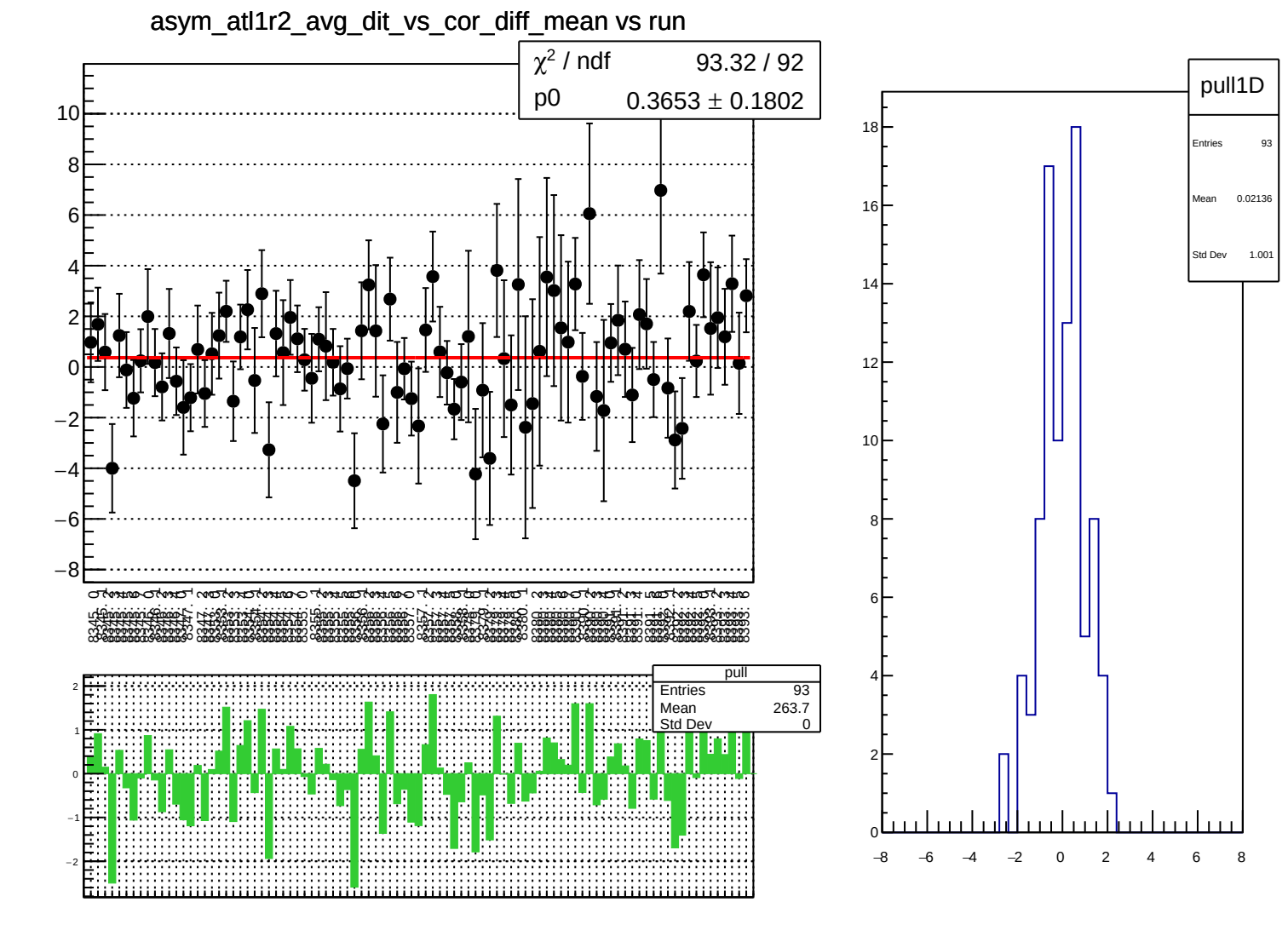

asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 97.3 / 92
p0 −1.276e+04 ± 7666
pull
Entries 93
Mean −164.7
Std Dev 0

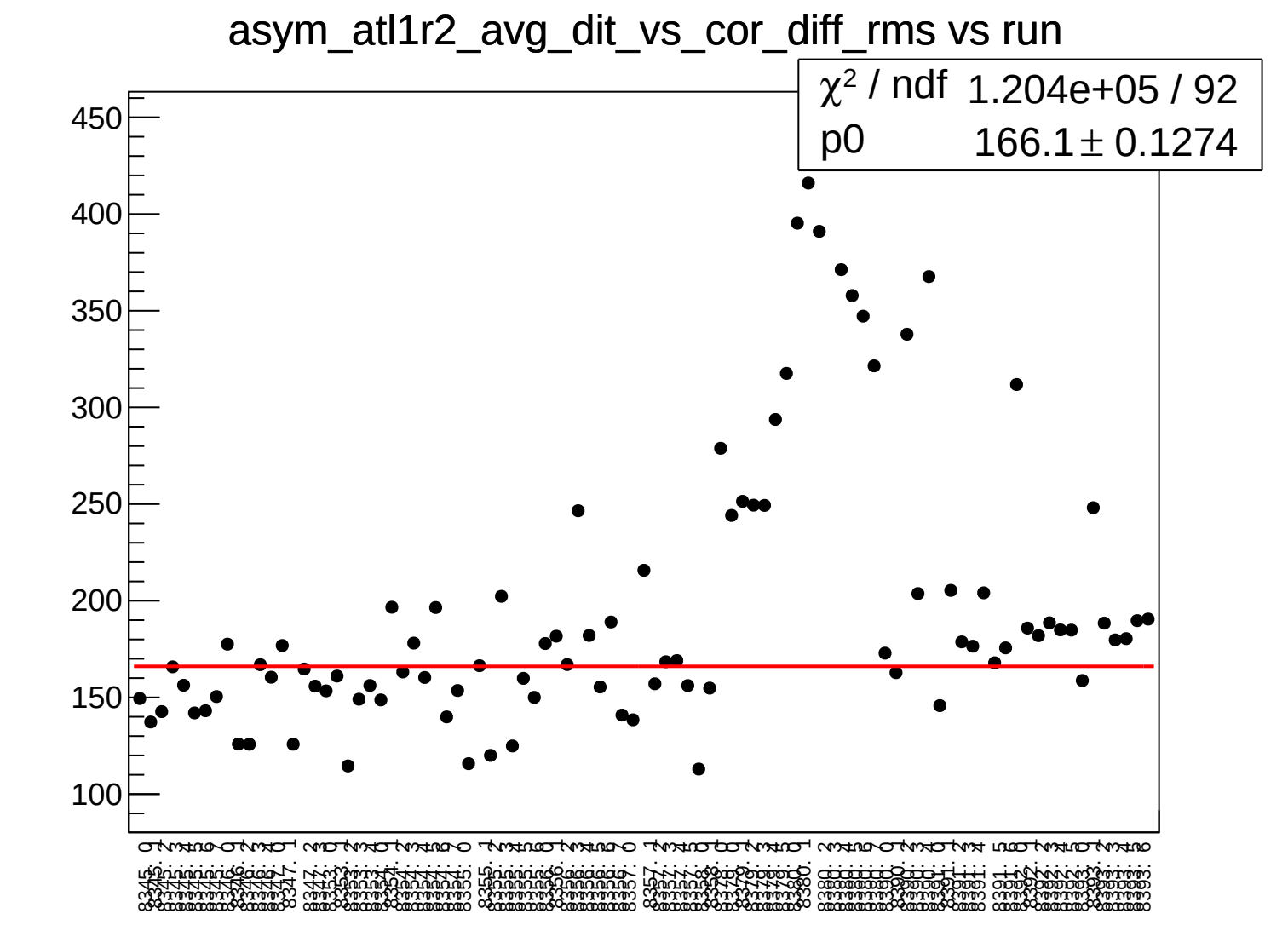

pull1D
Entries 93
Mean 0.01931
Std Dev 1.023

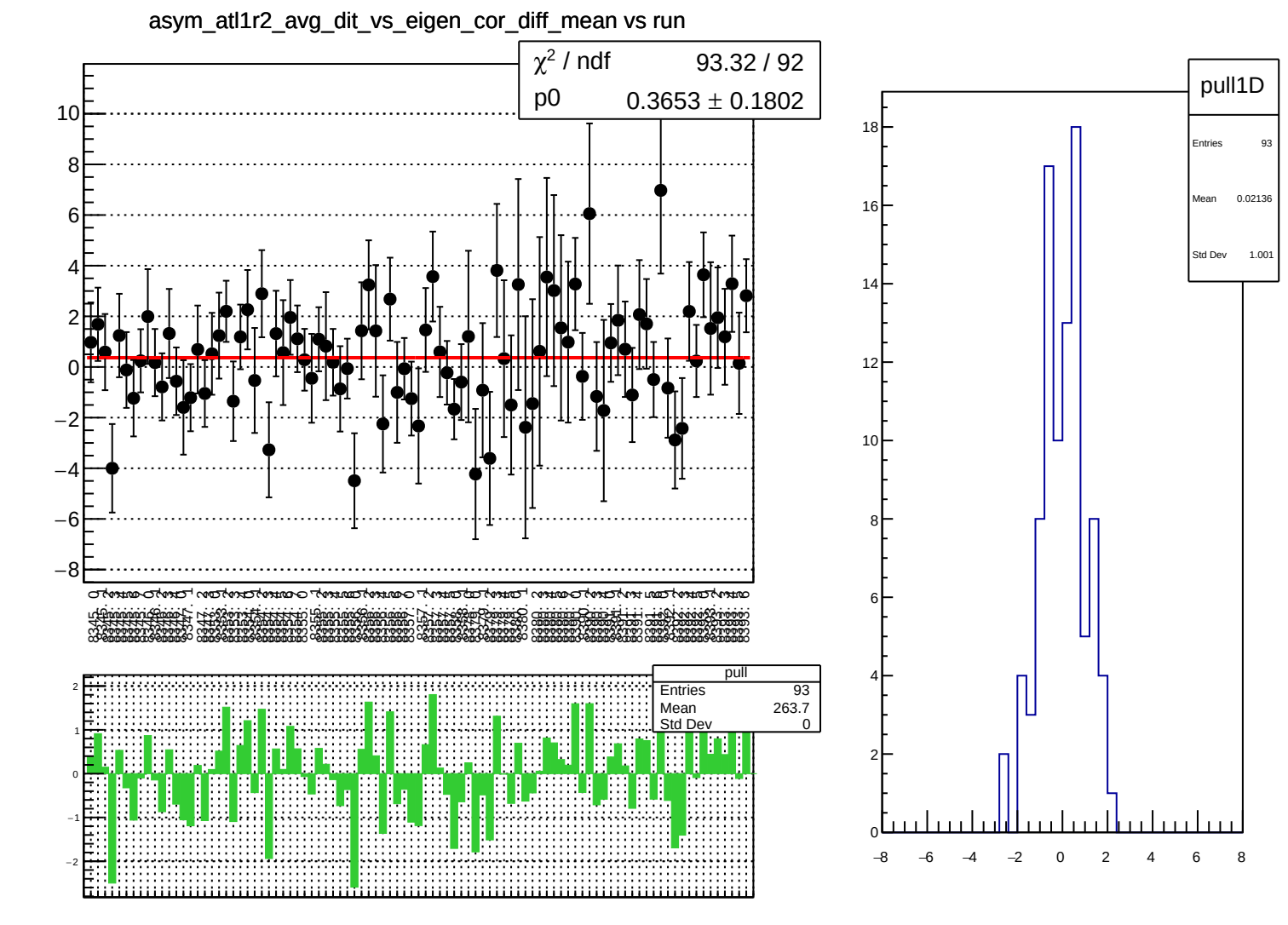

asym_atl1r2_avg_rms vs run
χ² / ndf 1.273e+04 / 92
p0 7286 ± 5.421
9000
8500
8000
7500
7000
6500
6000

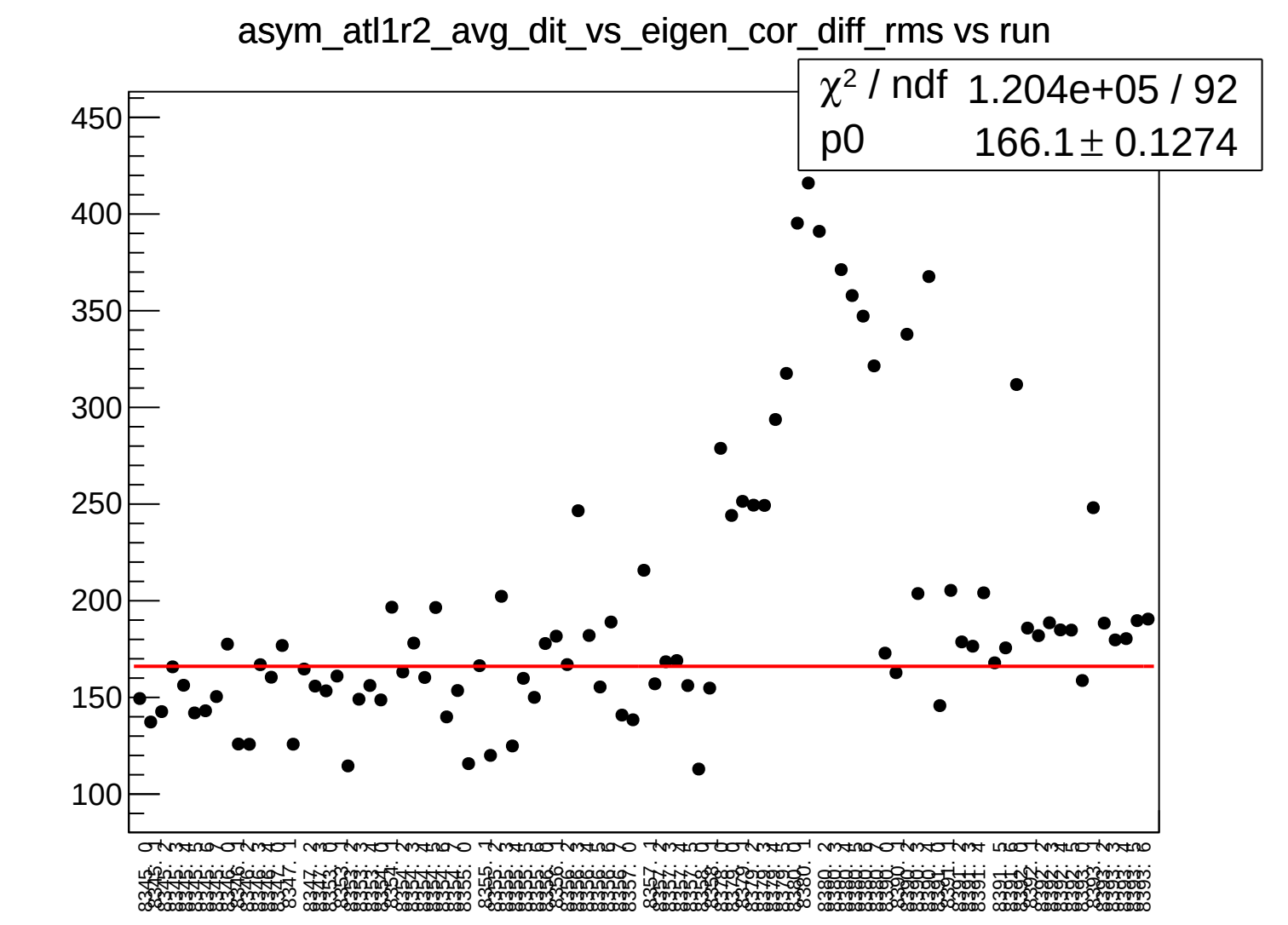

asym_atl1r2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 89.22 / 92
p0 −5.239e−13 ± 6.975e−13
pull
Entries 93
Mean 56.79
Std Dev 8.075
pull1D
Entries 93
Mean −0.1055
Std Dev 0.9738

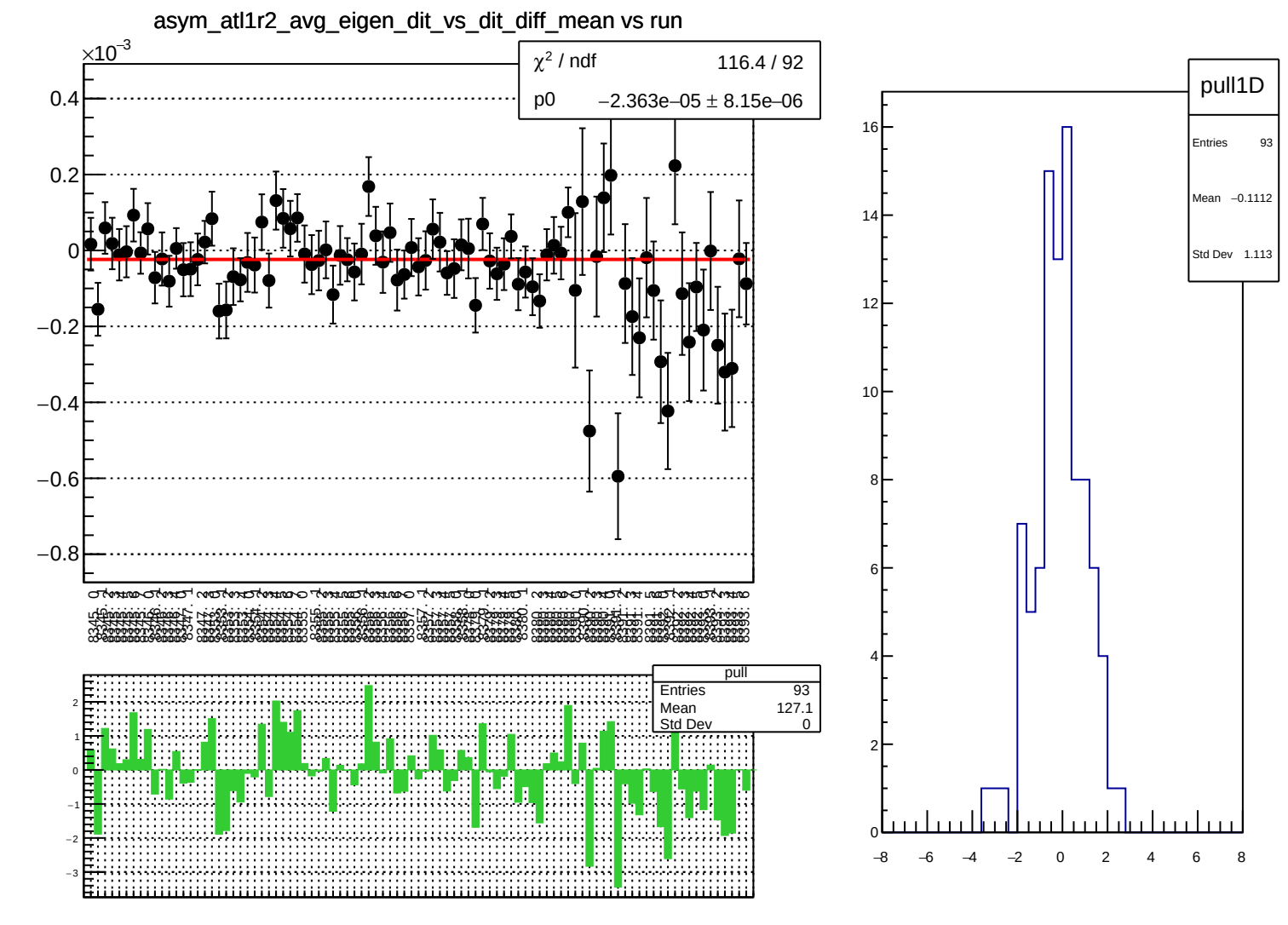

asym_atl1r2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.304e+06 / 92
p0 3.54e−10 ± 4.932e−13
1.2
1
0.8
0.6
0.4
0.2
0

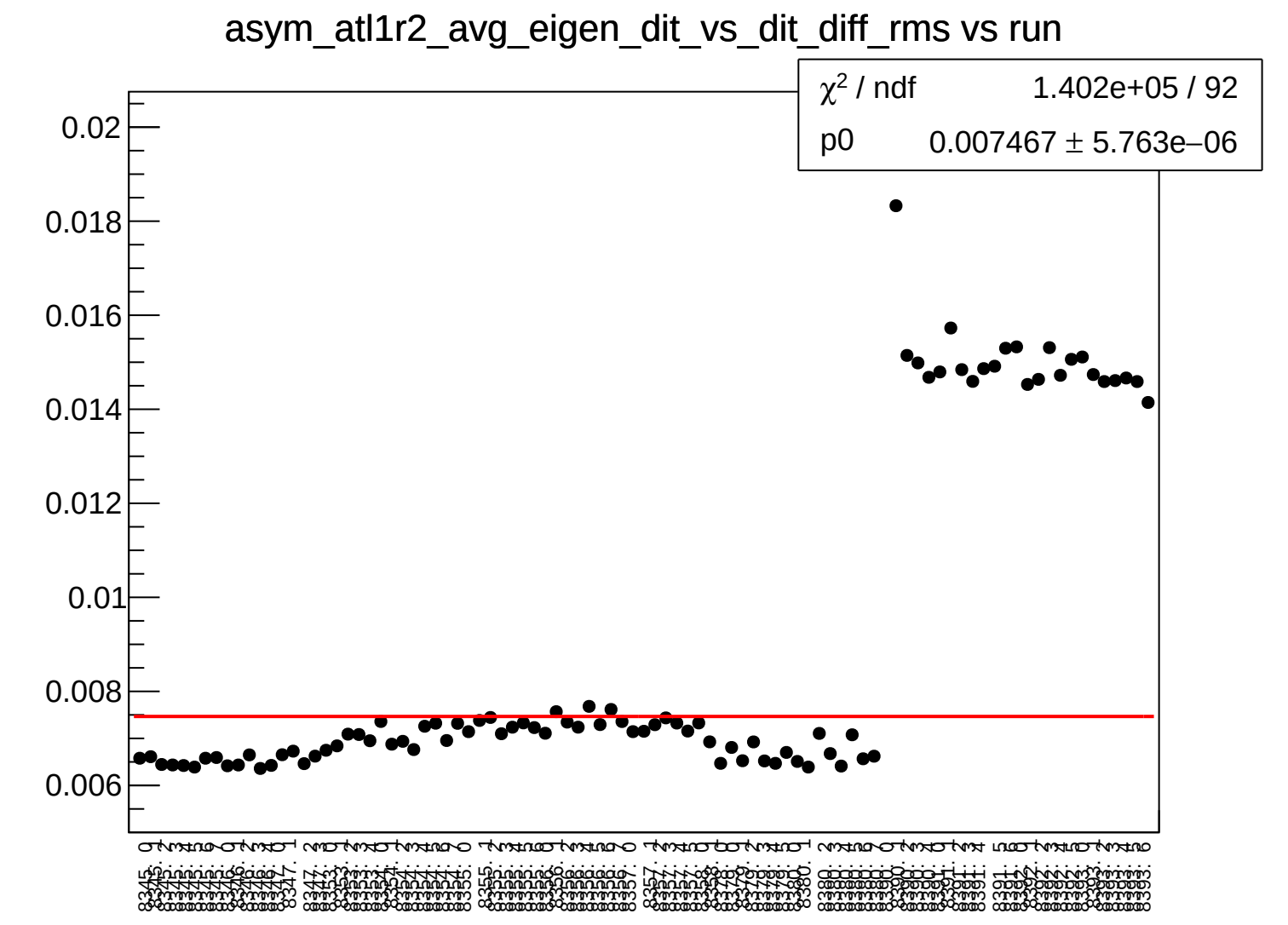

asym_atl1r2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 93.32 / 92
p0 0.3653 ± 0.1802
pull
Entries 93
Mean 263.7
Std Dev 0
pull1D
Entries 93
Mean 0.02136
Std Dev 1.001

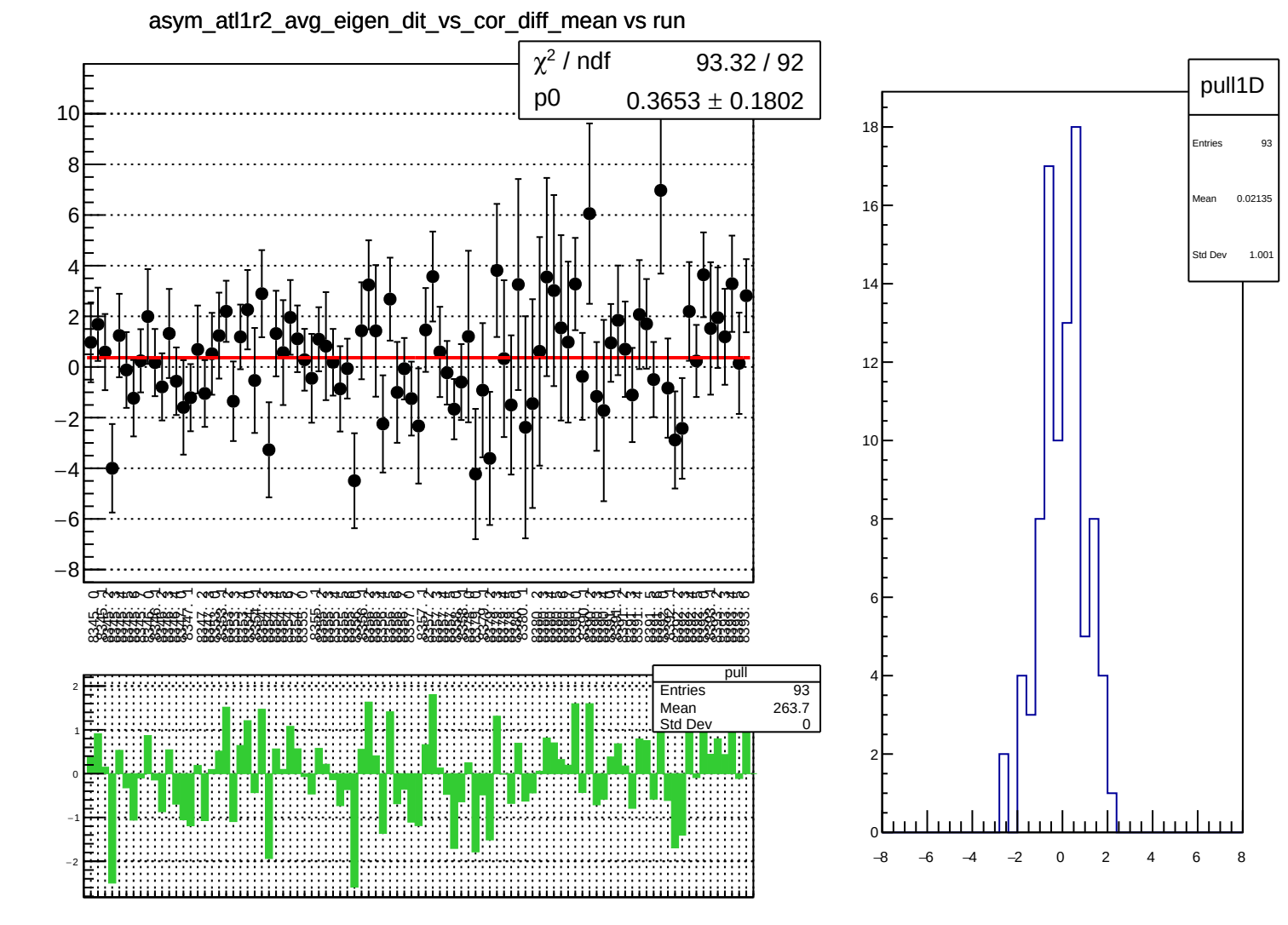

asym_atl1r2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.204e+05 / 92
p0 166.1 ± 0.1274
450
400
350
300
250
200
150
100

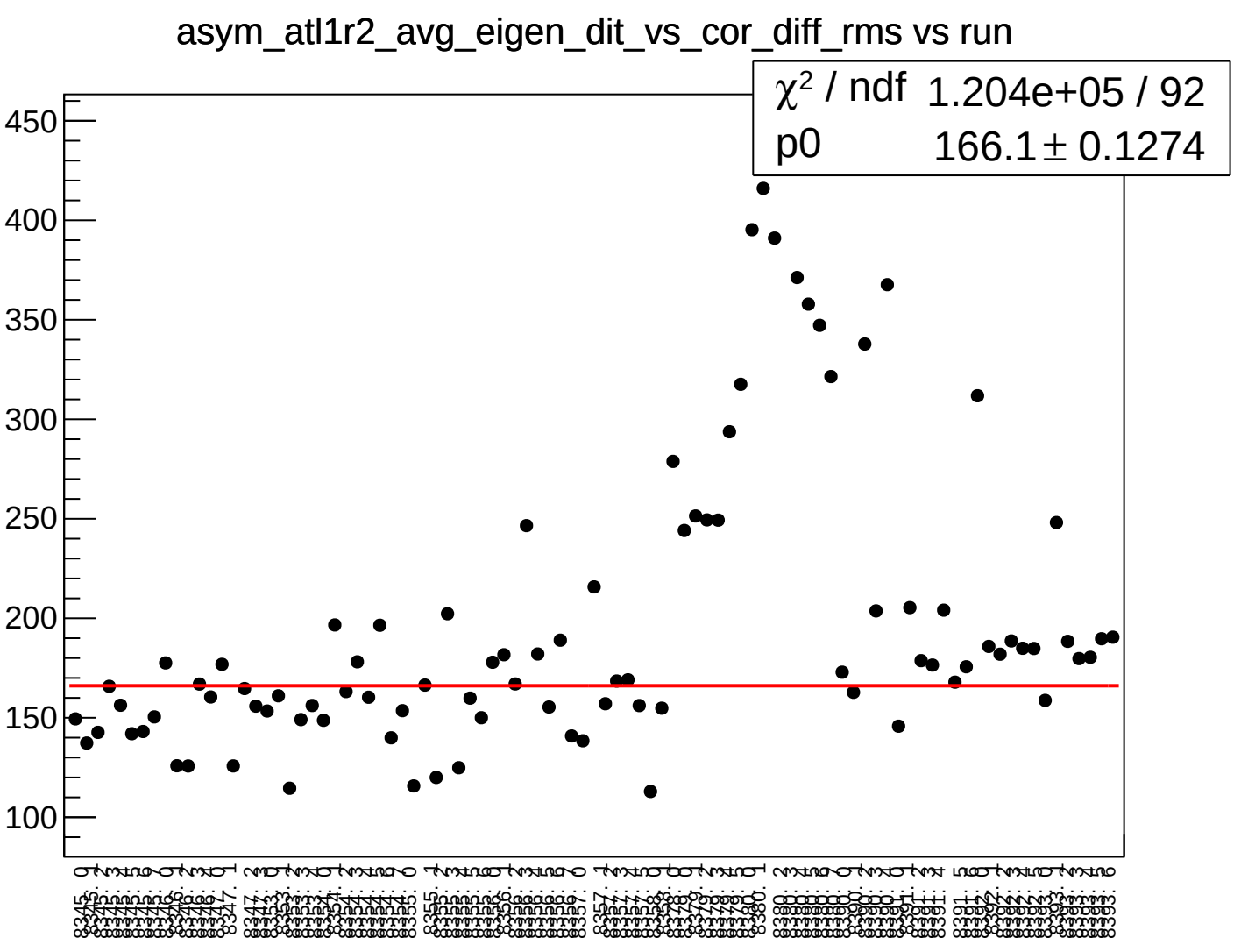

asym_atl1r2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.32 / 92
p0 0.3653 ± 0.1802
pull
Entries 93
Mean 263.7
Std Dev 0
pull1D
Entries 93
Mean 0.02136
Std Dev 1.001

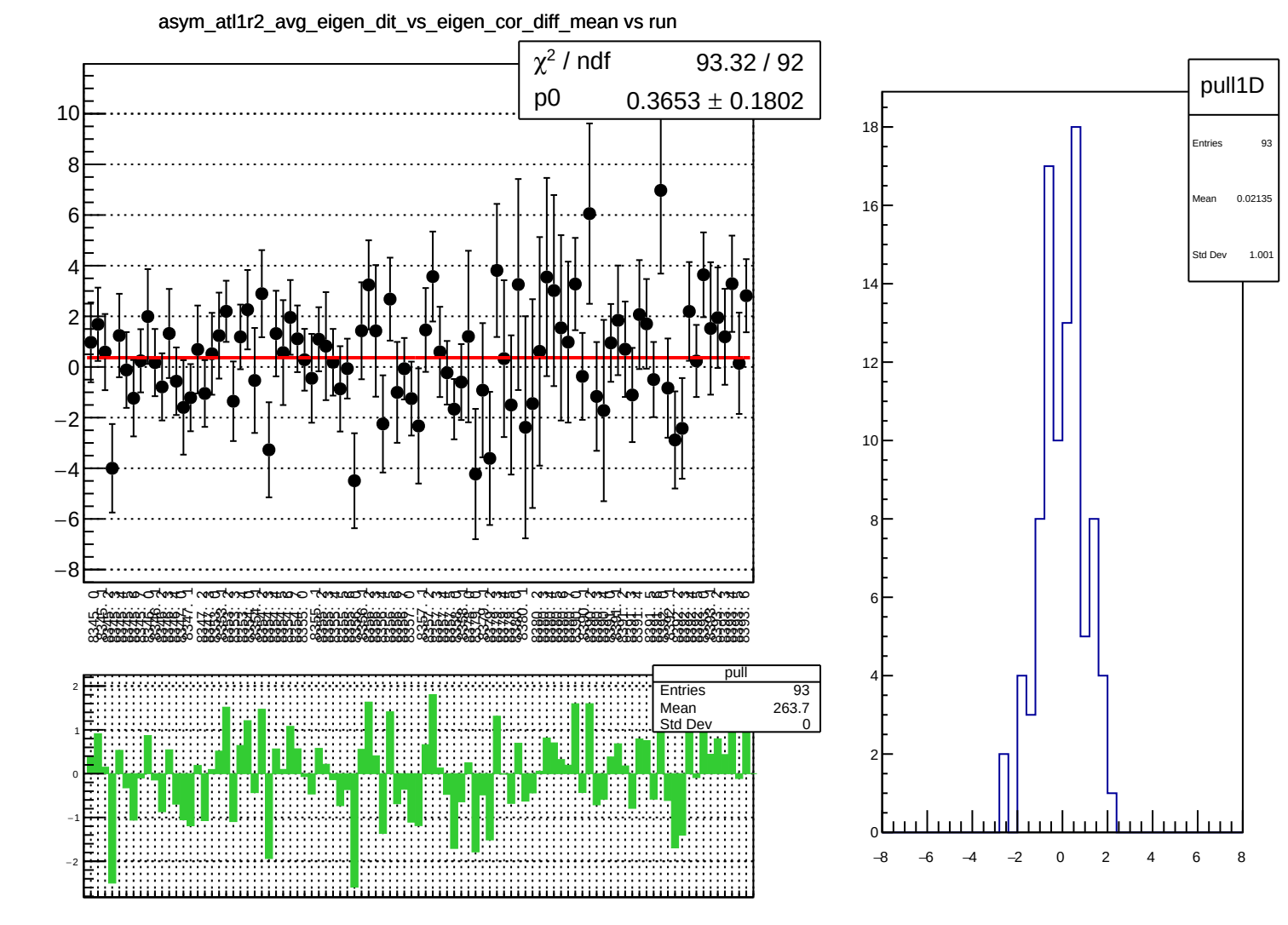

asym_atl1r2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.204e+05 / 92
p0 166.1 ± 0.1274
450
400
350
300
250
200
150
100

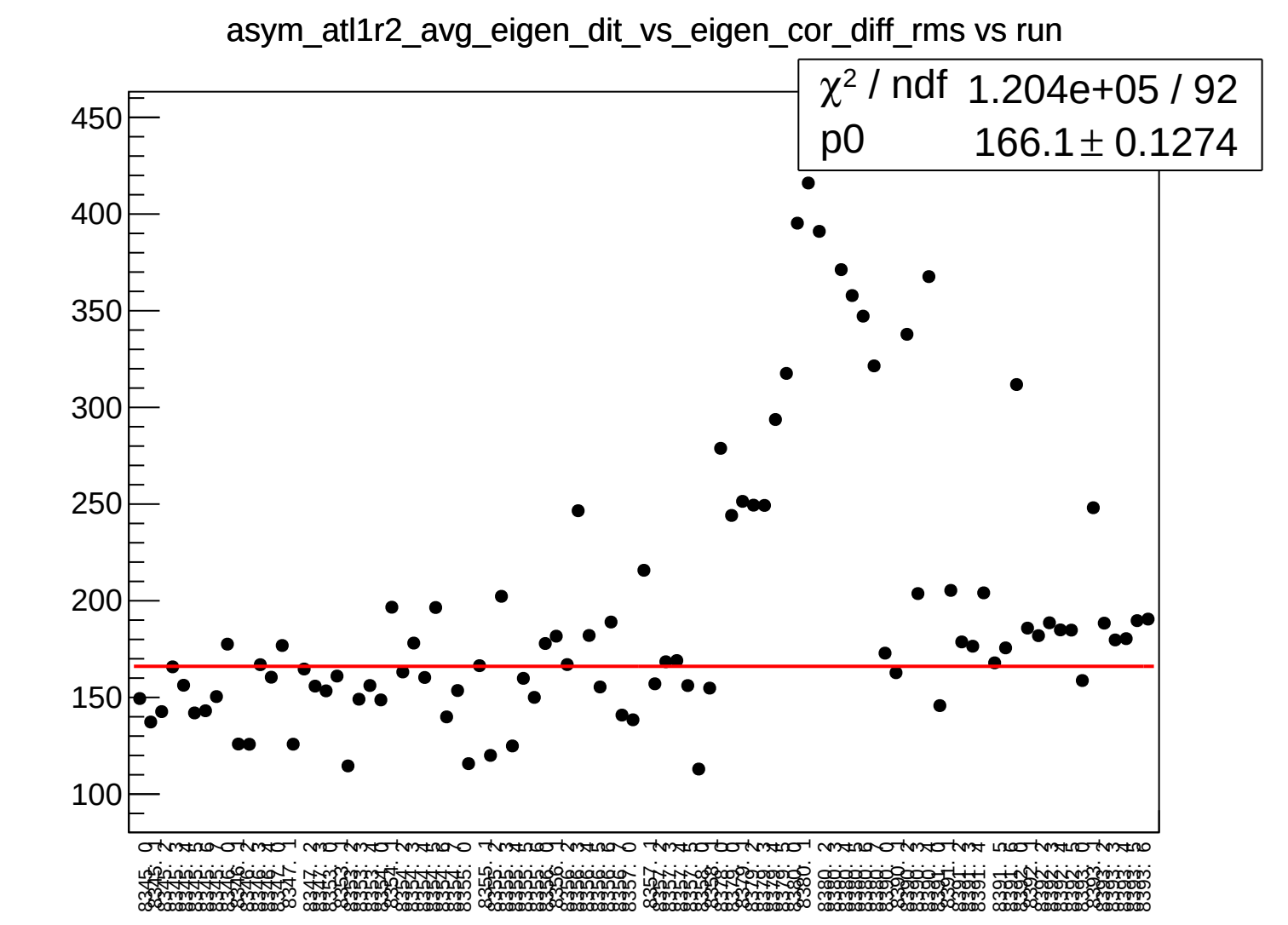

asym_atl1r2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 116.4 / 92
p0 −2.363e−05 ± 8.15e−06
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull
Entries 93
Mean 127.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.1112
Std Dev 1.113
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

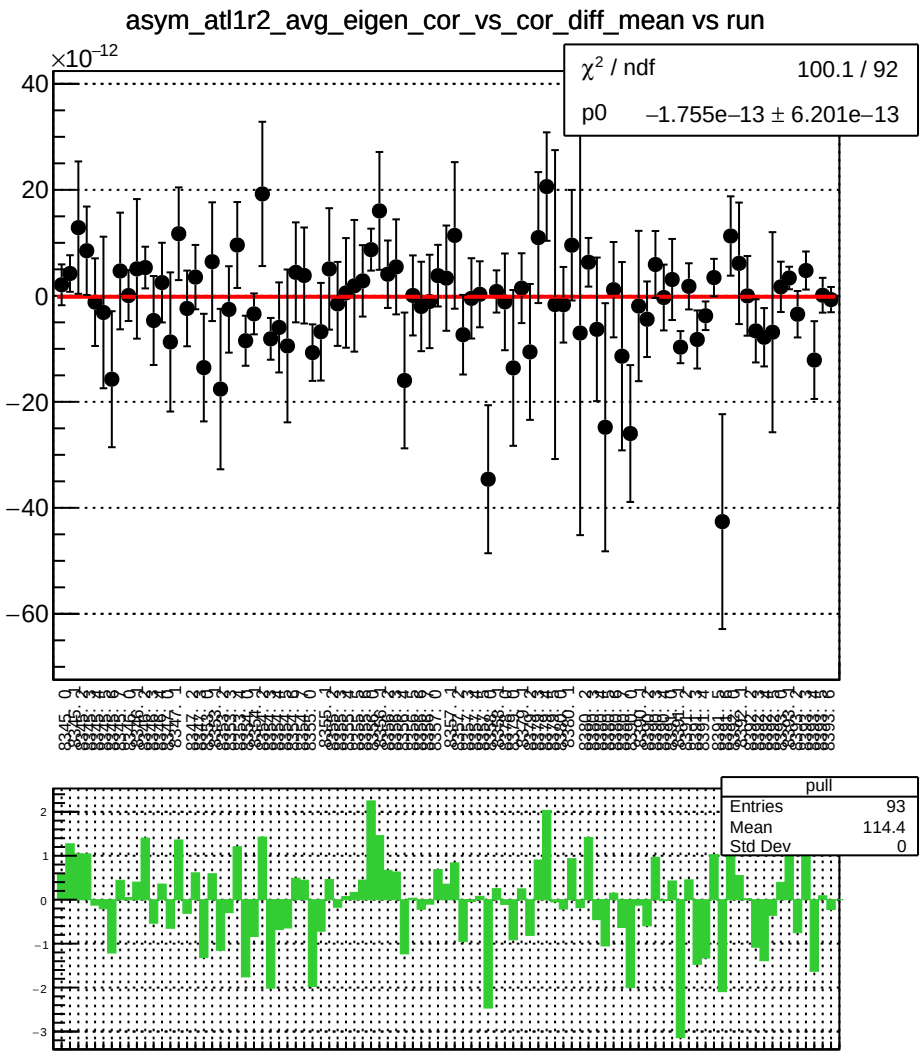

asym_atl1r2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.402e+05 / 92
p0 0.007467 ± 5.763e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

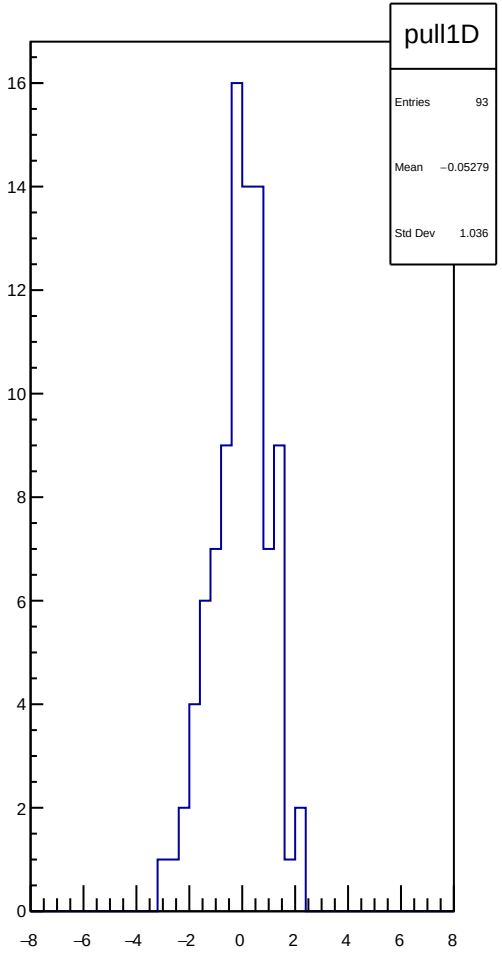

asym_atl1r2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.32 / 92
p0 0.3653 ± 0.1802
pull
Entries 93
Mean 263.7
Std Dev 0
pull1D
Entries 93
Mean 0.02135
Std Dev 1.001

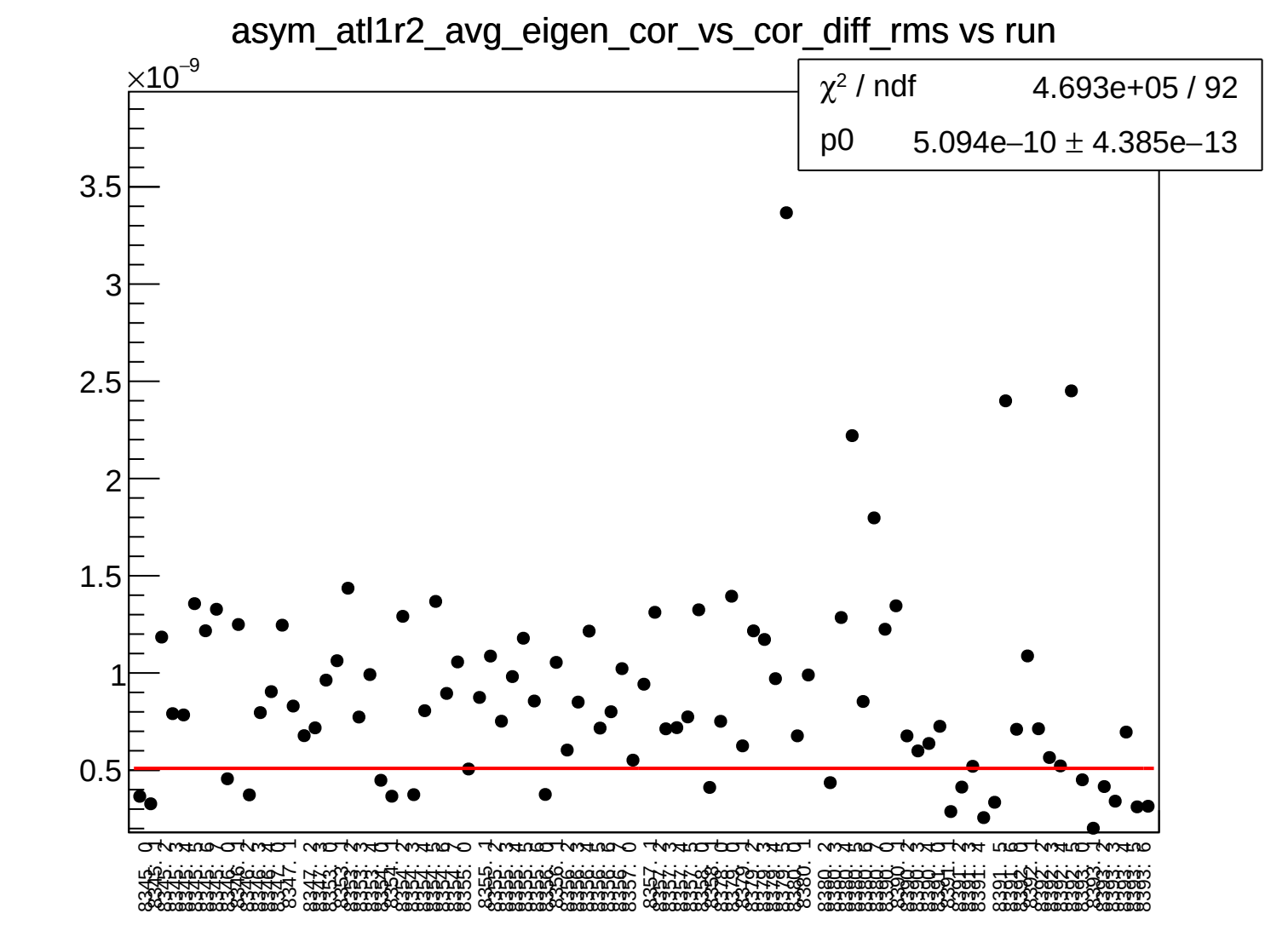

asym_atl1r2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.204e+05 / 92
p0 166.1 ± 0.1274
450
400
350
300
250
200
150
100

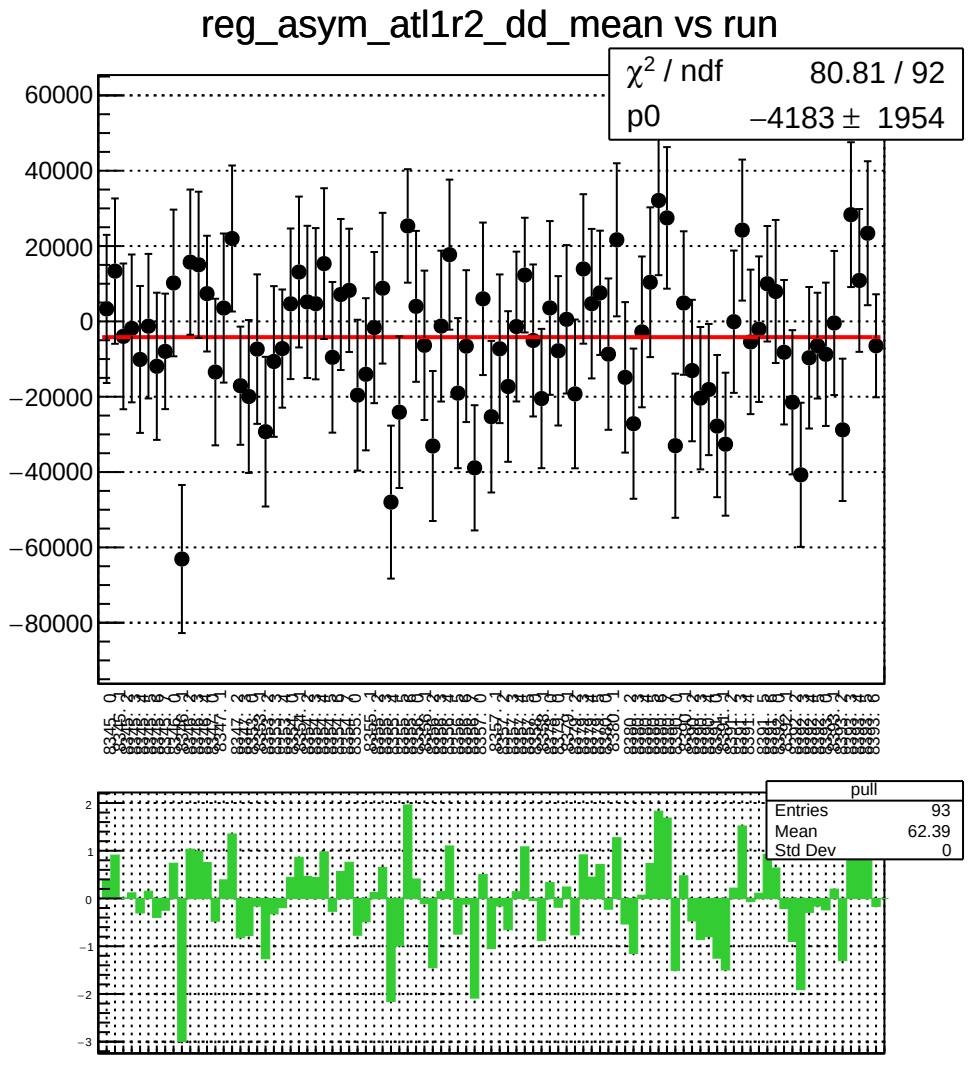

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.32 / 92
p0 0.3653 ± 0.1802
pull
Entries 93
Mean 263.7
Std Dev 0
pull1D
Entries 93
Mean 0.02135
Std Dev 1.001

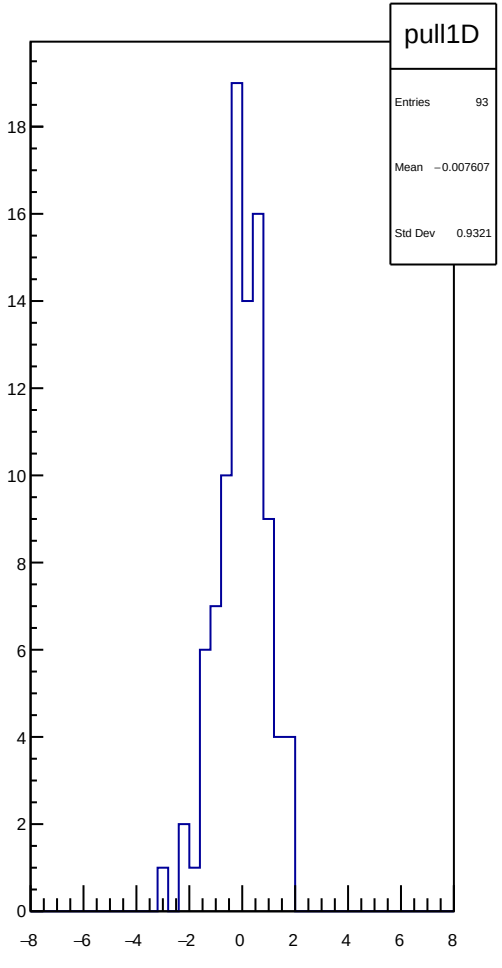

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.204e+05 / 92
p0 166.1 ± 0.1274
450
400
350
300
250
200
150
100

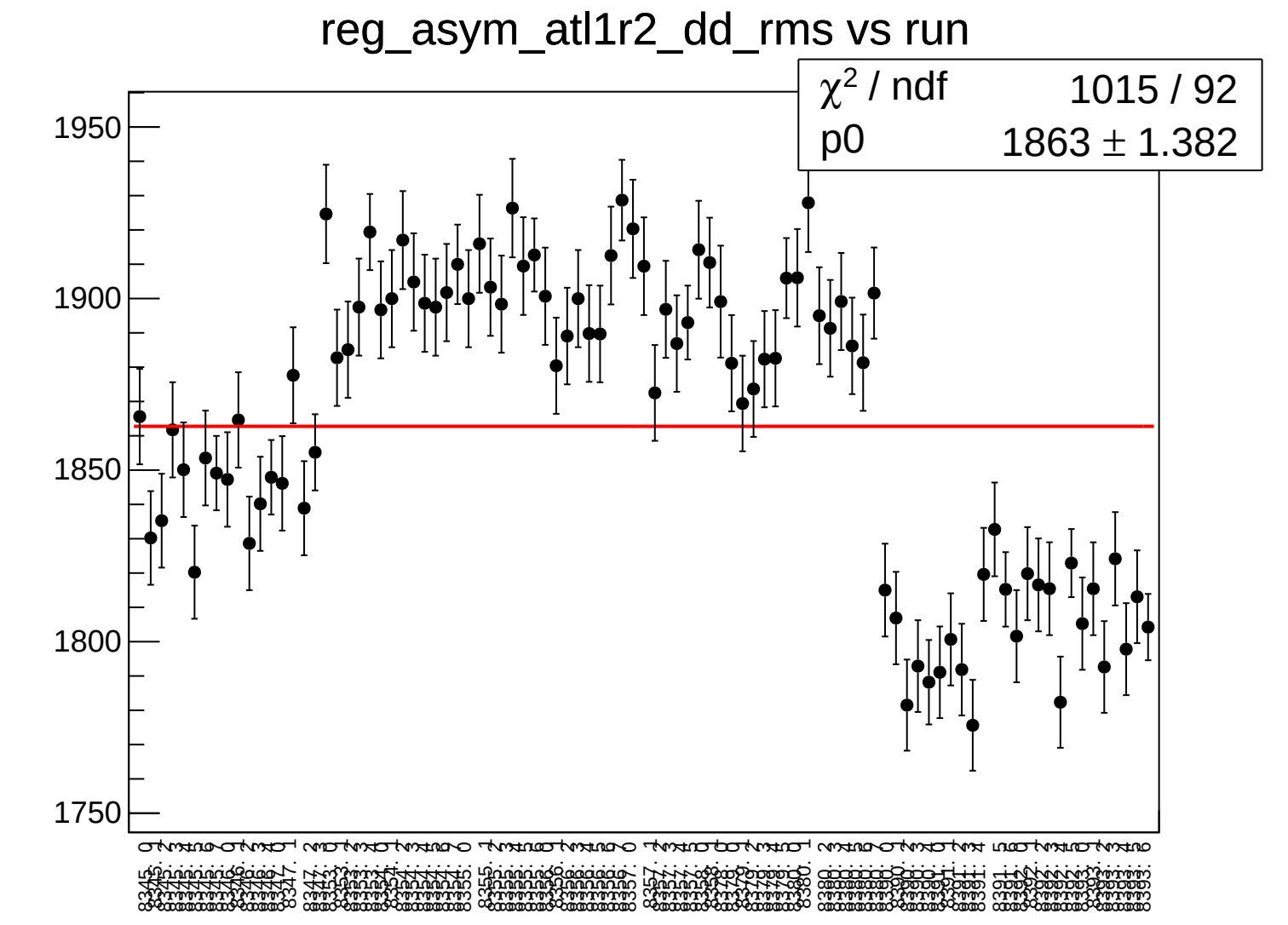

asym_atl1r2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 100.1 / 92
p0 −1.755e−13 ± 6.201e−13
pull
Entries 93
Mean 114.4
Std Dev 0

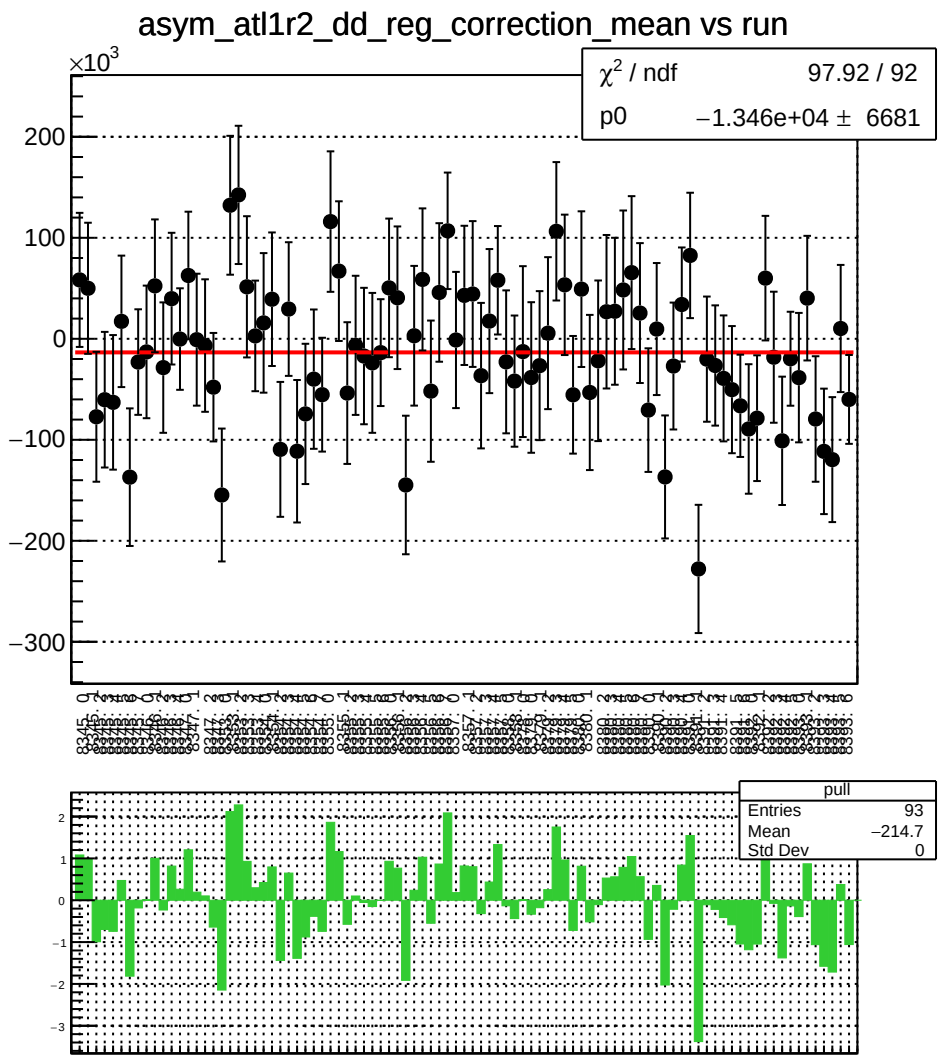

pull1D
Entries 93
Mean −0.05279
Std Dev 1.036

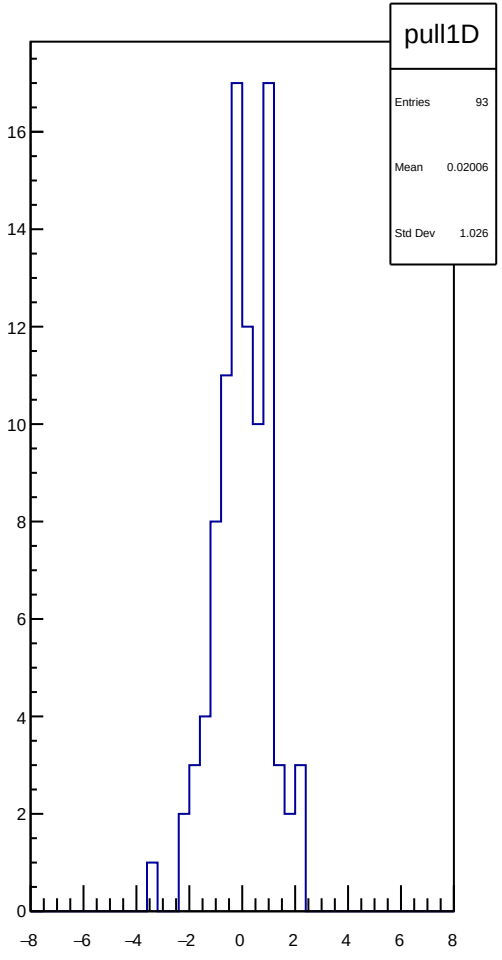

asym_atl1r2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.693e+05 / 92
p0 5.094e−10 ± 4.385e−13
3.5
3
2.5
2
1.5
1
0.5

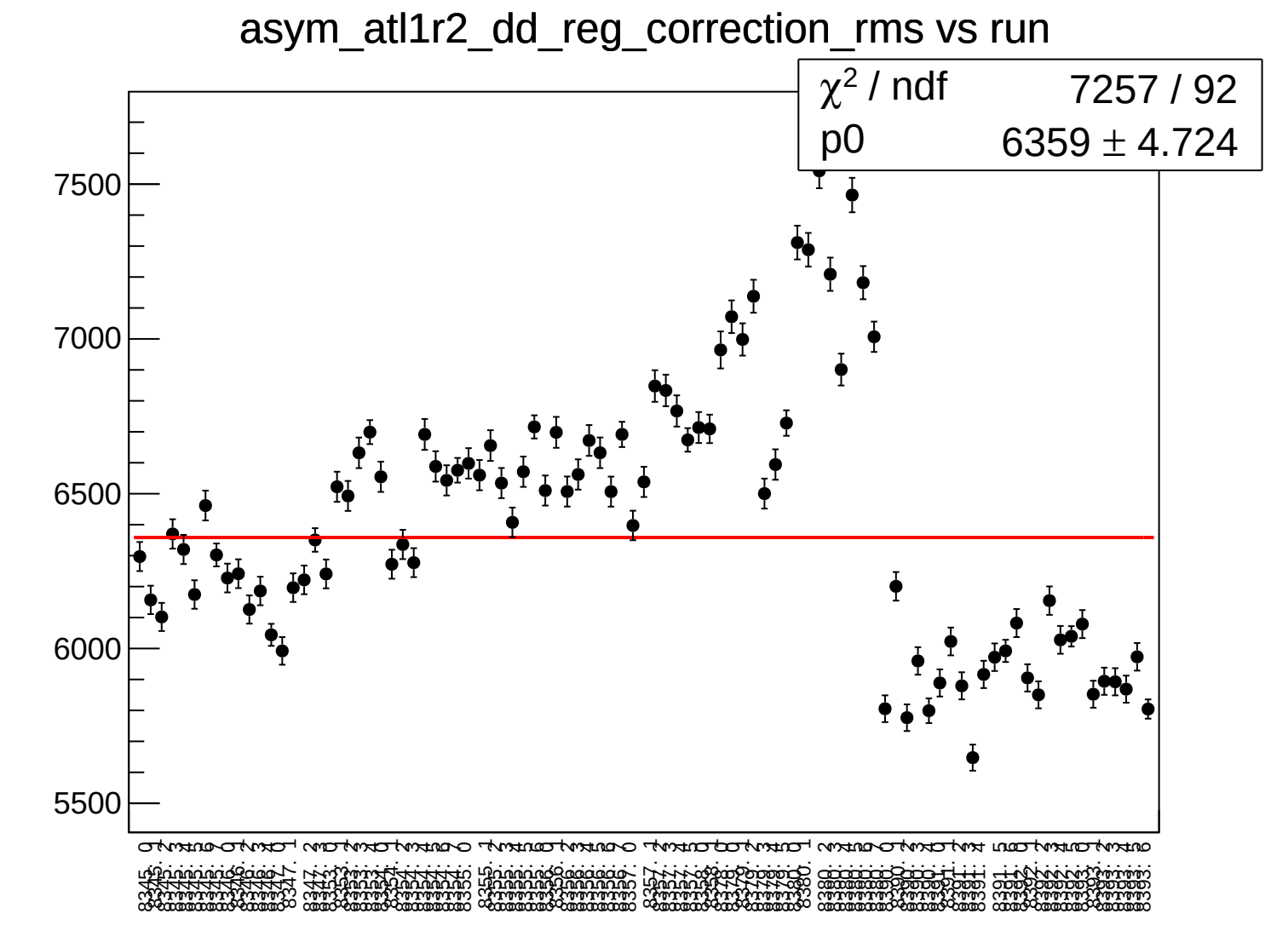

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 80.81 / 92
p0 −4183 ± 1954
pull
Entries 93
Mean 62.39
Std Dev 0

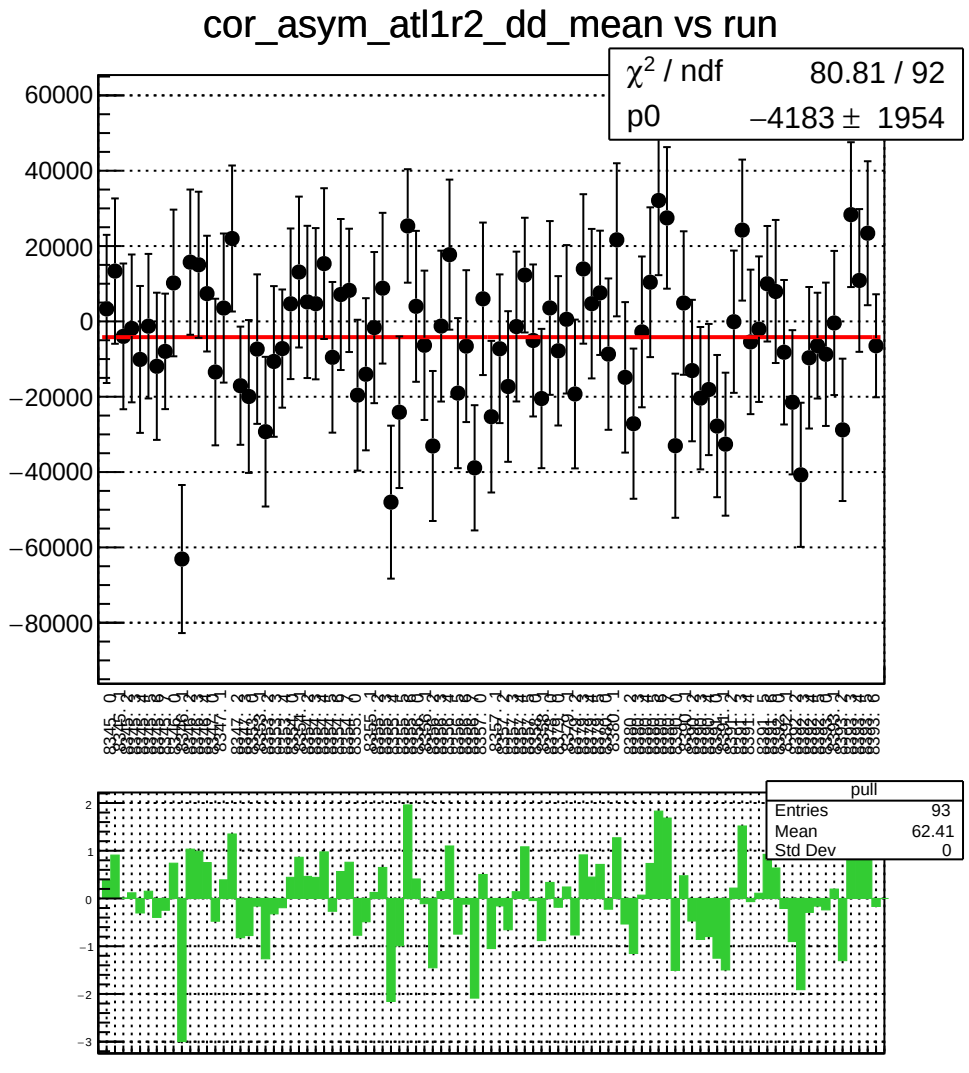

pull1D
Entries 93
Mean −0.007607
Std Dev 0.9321

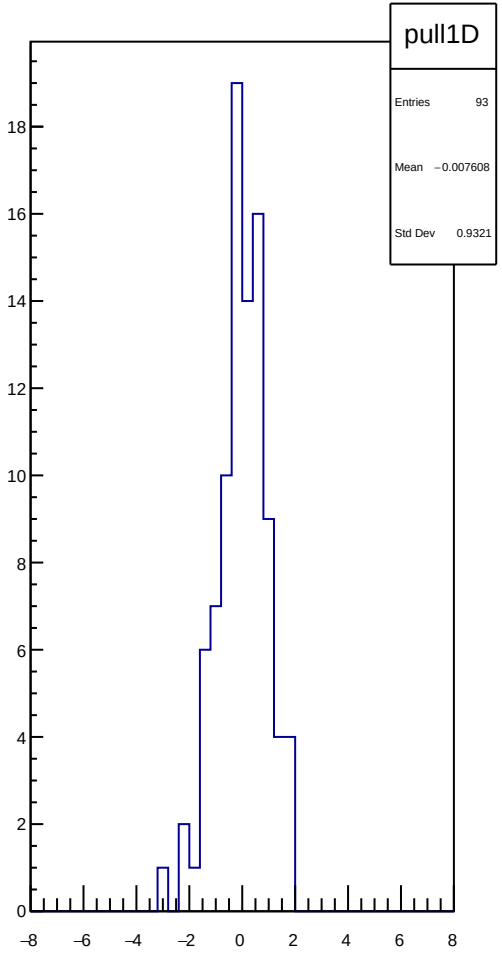

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 1015 / 92
p0 1863 ± 1.382
1950
1900
1850
1800
1750

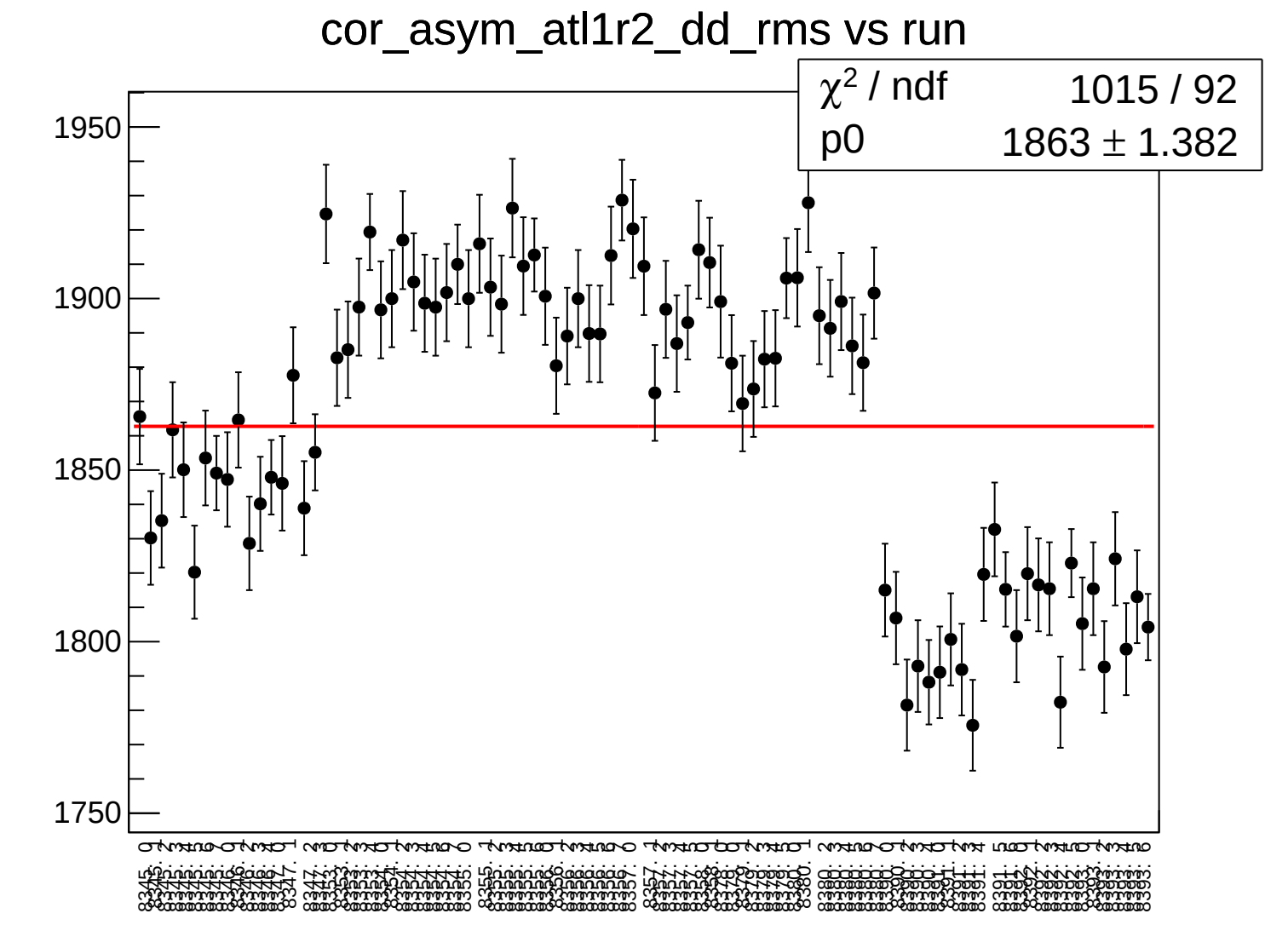

asym_atl1r2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 97.92 / 92
p0 −1.346e+04 ± 6681
200
100
0
−100
−200
−300
pull
Entries 93
Mean −214.7
Std Dev 0
2
1
0
−1
−2
−3

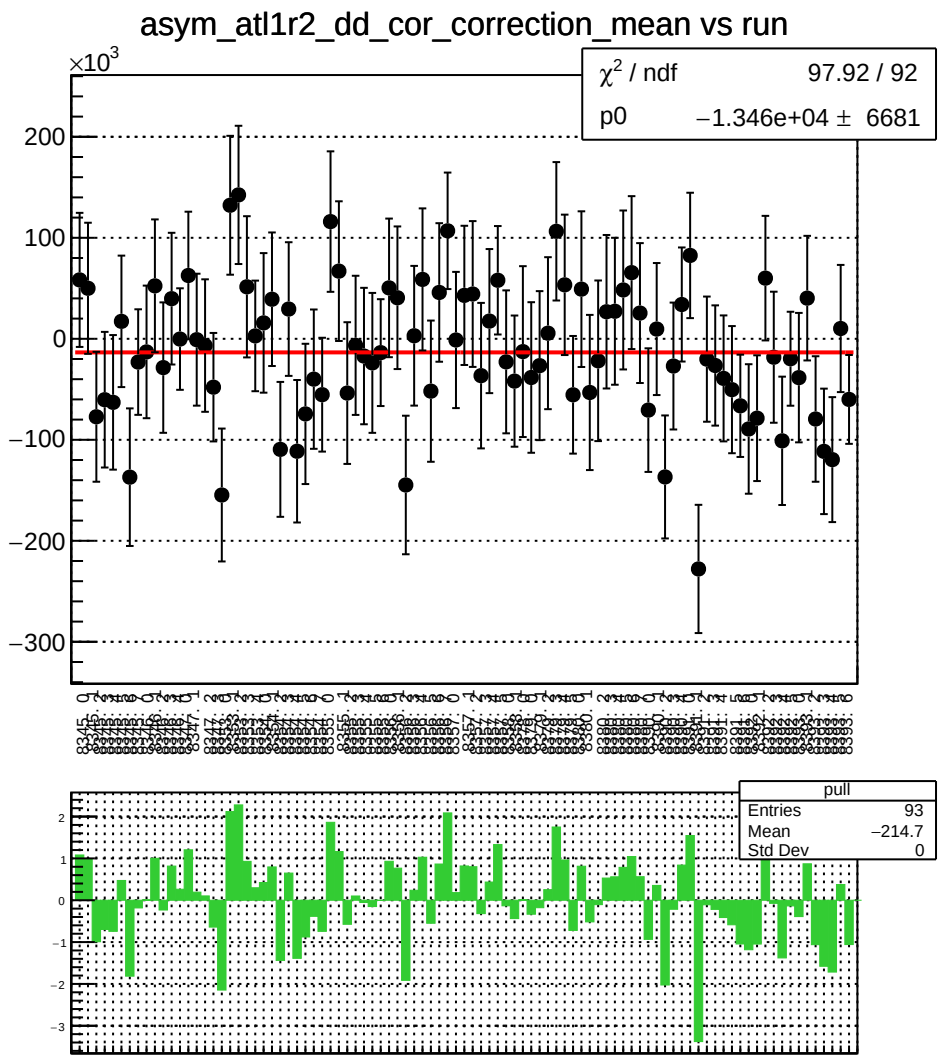

pull1D
Entries 93
Mean 0.02006
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

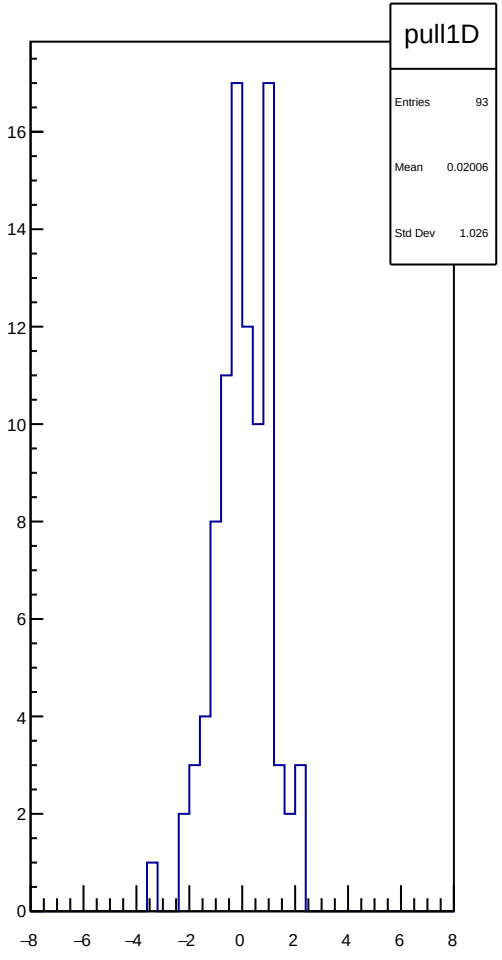

asym_atl1r2_dd_reg_correction_rms vs run
χ^2 / ndf 7257 / 92
p0 6359 ± 4.724
7500
7000
6500
6000
5500

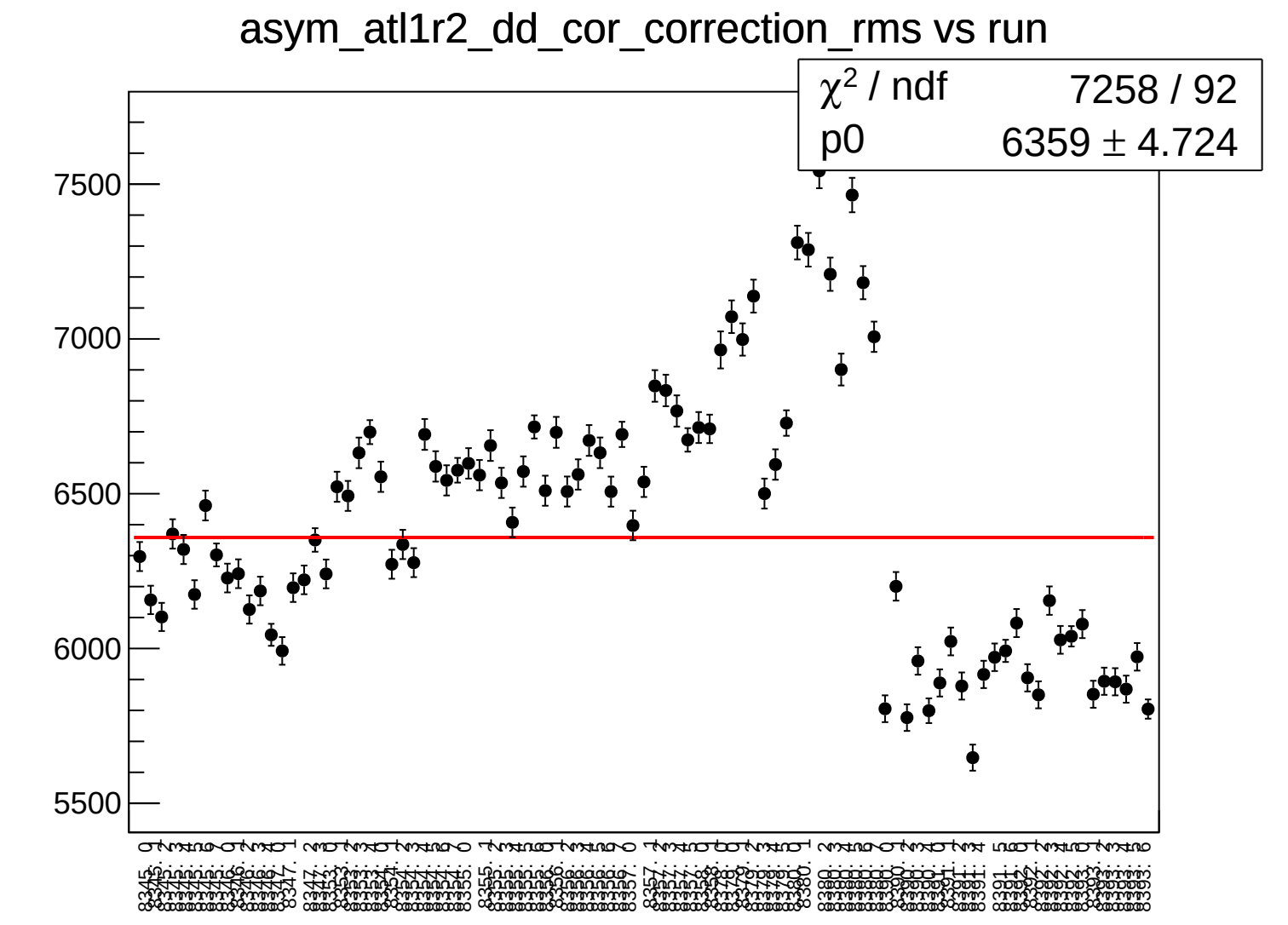

cor_asym_atl1r2_dd_mean vs run
χ² / ndf 80.81 / 92
p0 −4183 ± 1954
pull
Entries 93
Mean 62.41
Std Dev 0

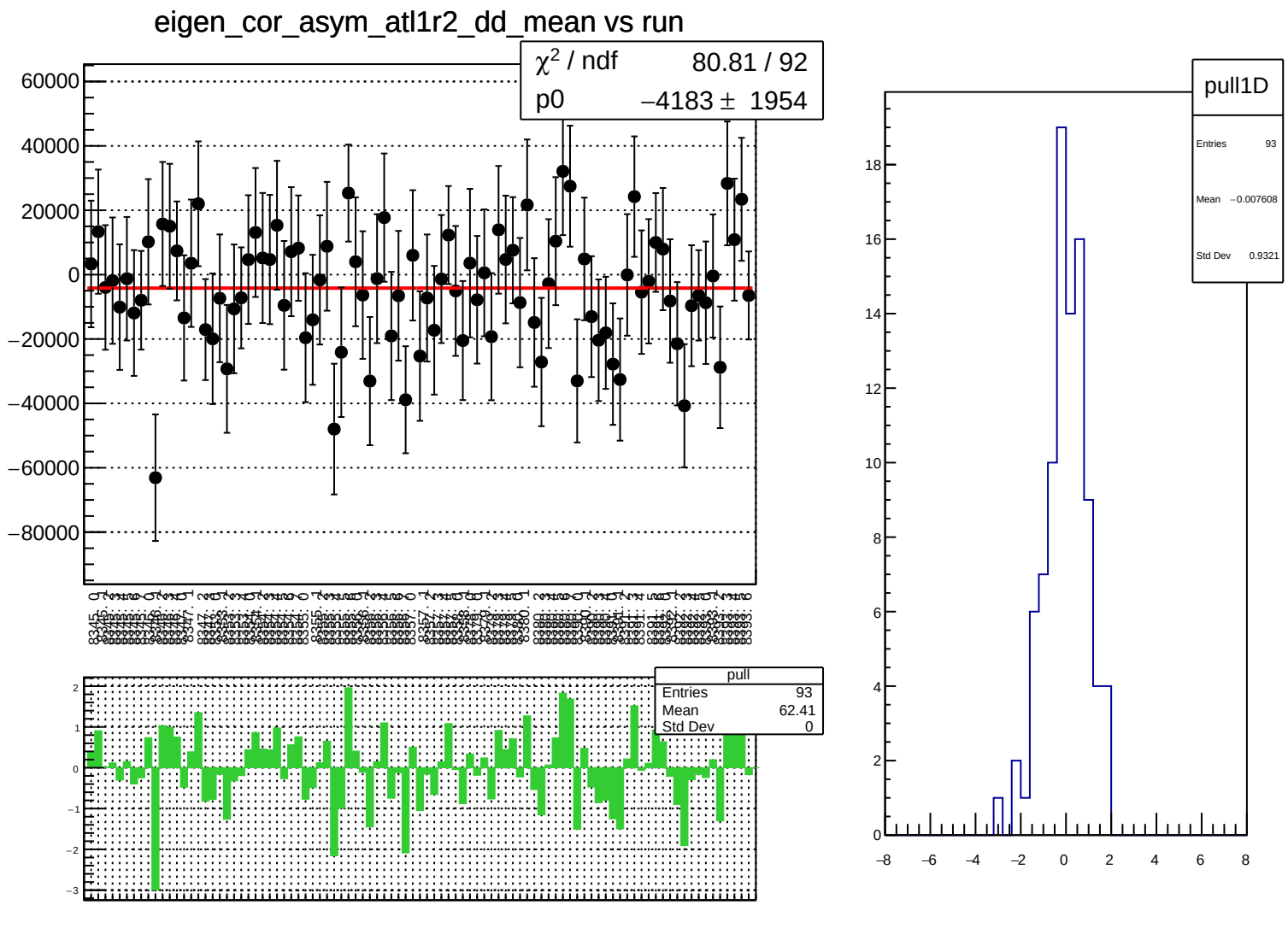

pull1D
Entries 93
Mean −0.007608
Std Dev 0.9321

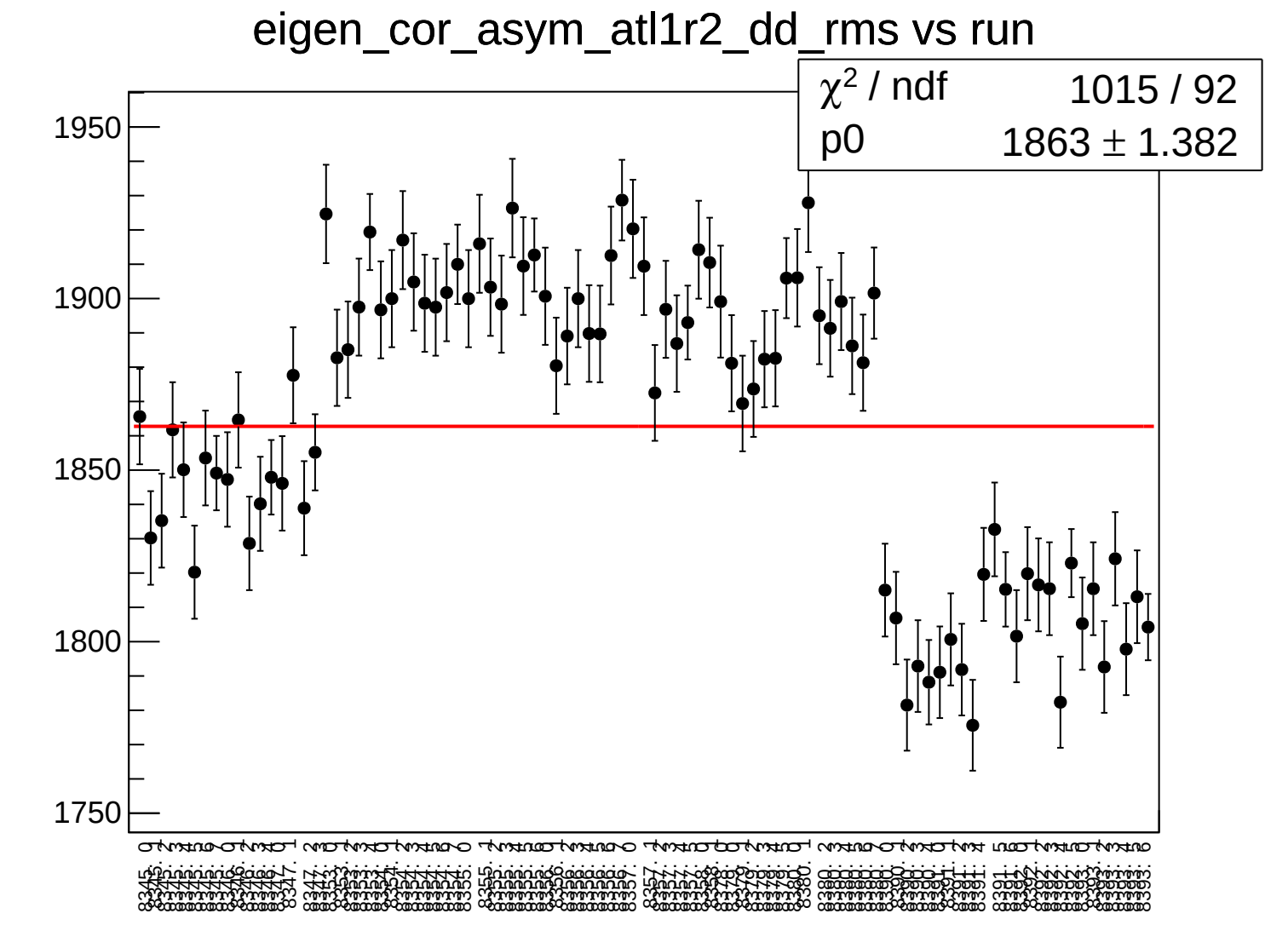

cor_asym_atl1r2_dd_rms vs run
χ² / ndf 1015 / 92
p0 1863 ± 1.382
1950
1900
1850
1800
1750

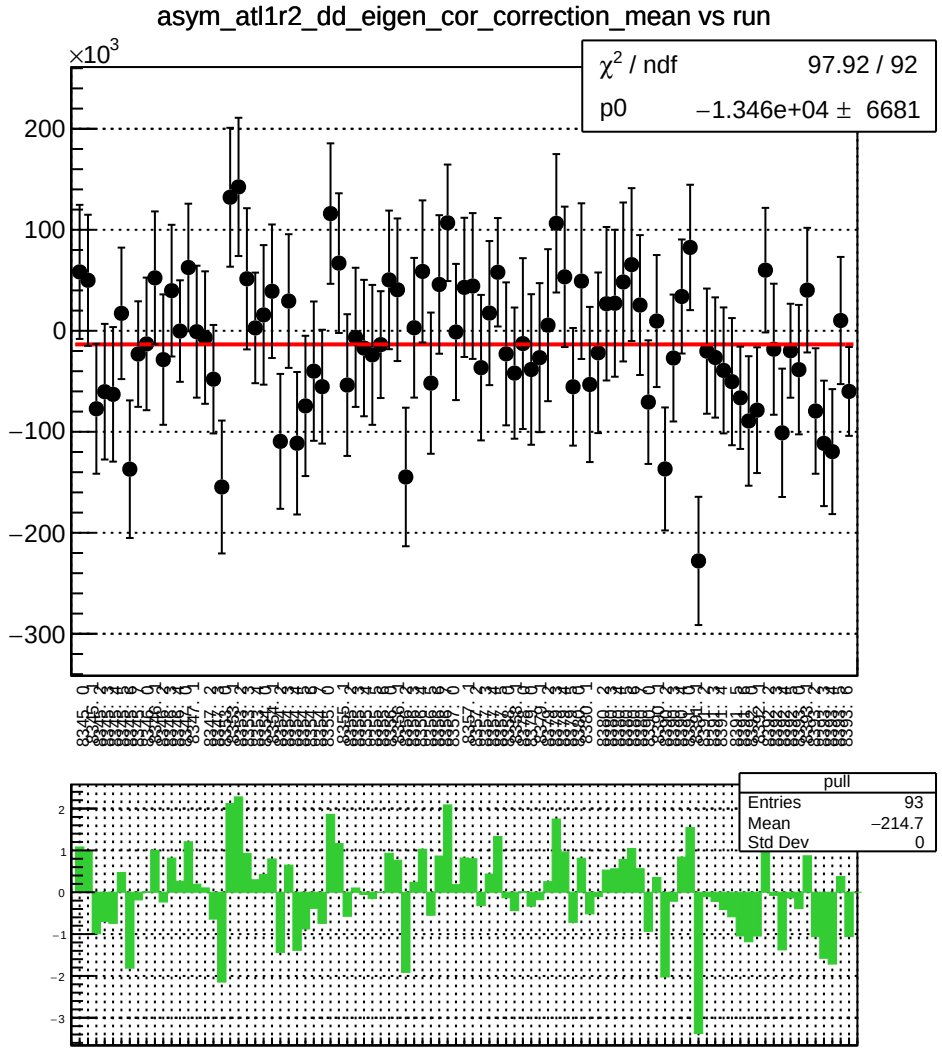

asym_atl1r2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 97.92 / 92
p0 −1.346e+04 ± 6681
200
100
0
−100
−200
−300
pull
Entries 93
Mean −214.7
Std Dev 0
2
1
0
−1
−2
−3

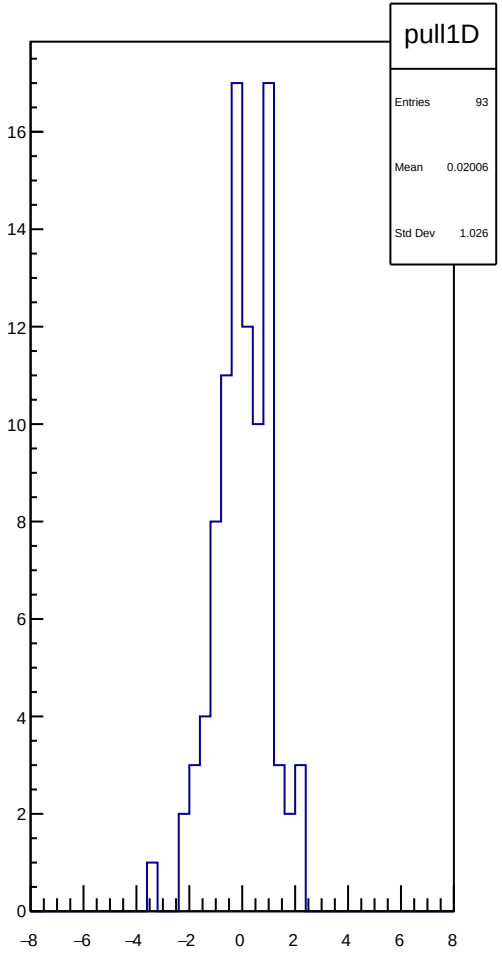

pull1D
Entries 93
Mean 0.02006
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

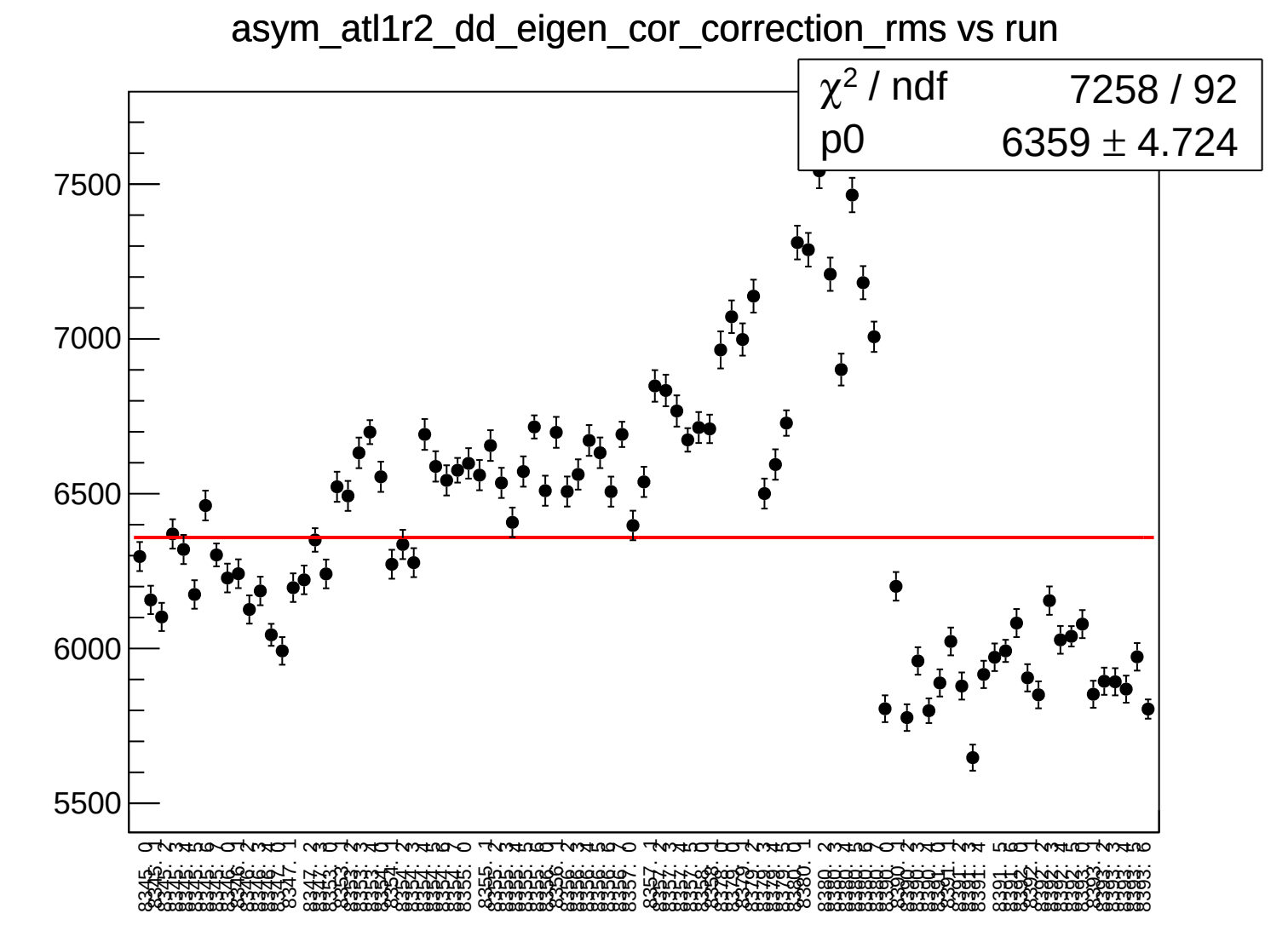

asym_atl1r2_dd_cor_correction_rms vs run
χ² / ndf 7258 / 92
p0 6359 ± 4.724
7500
7000
6500
6000
5500

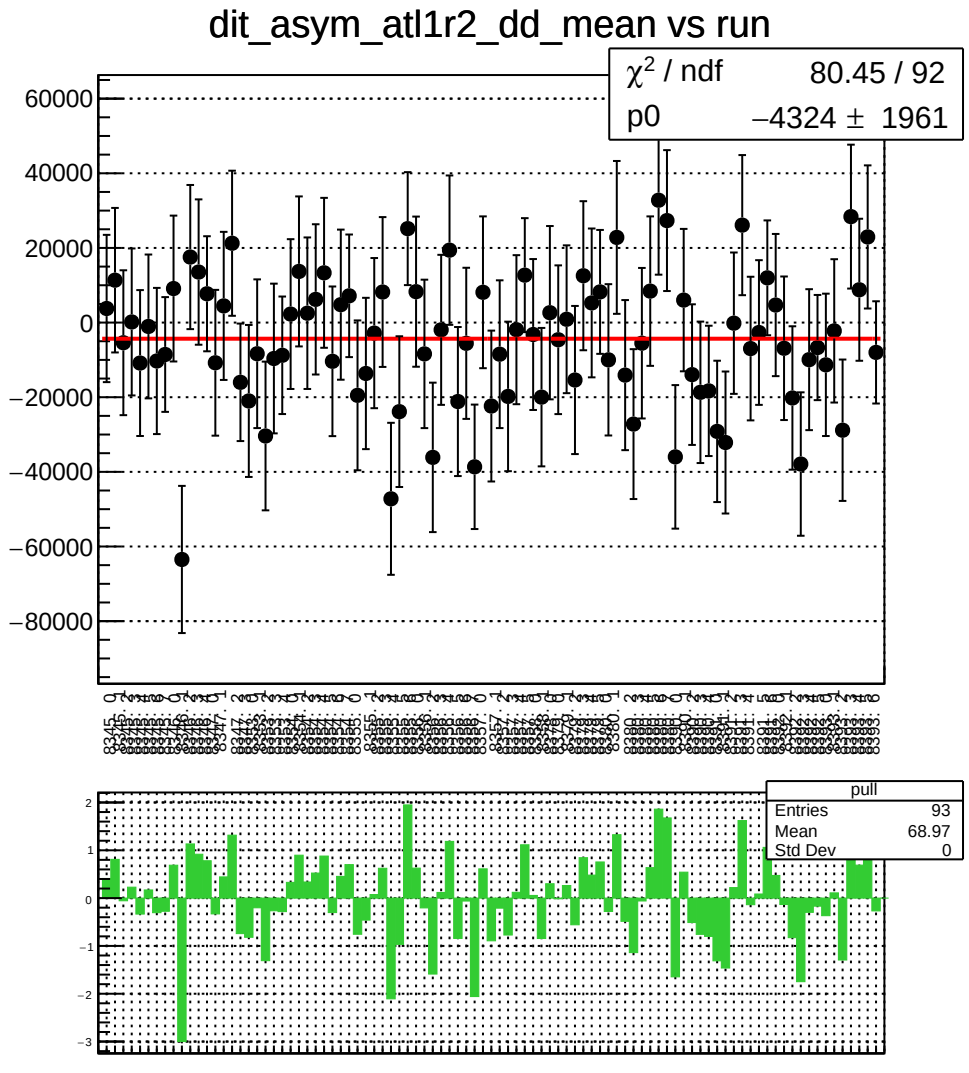

eigen_cor_asym_atl1r2_dd_mean vs run
χ² / ndf 80.81 / 92
p0 −4183 ± 1954
pull
Entries 93
Mean 62.41
Std Dev 0
pull1D
Entries 93
Mean −0.007608
Std Dev 0.9321

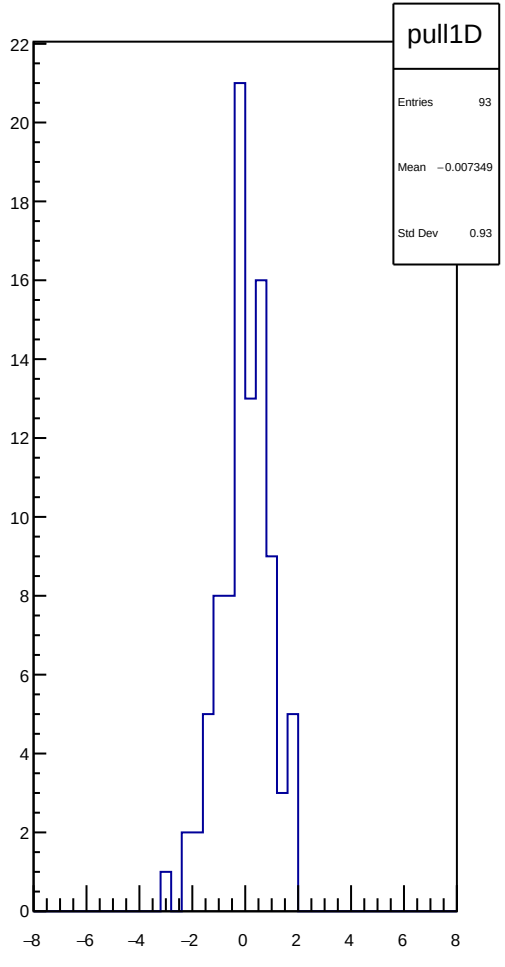

eigen_cor_asym_atl1r2_dd_rms vs run
χ² / ndf 1015 / 92
p0 1863 ± 1.382
1950
1900
1850
1800
1750

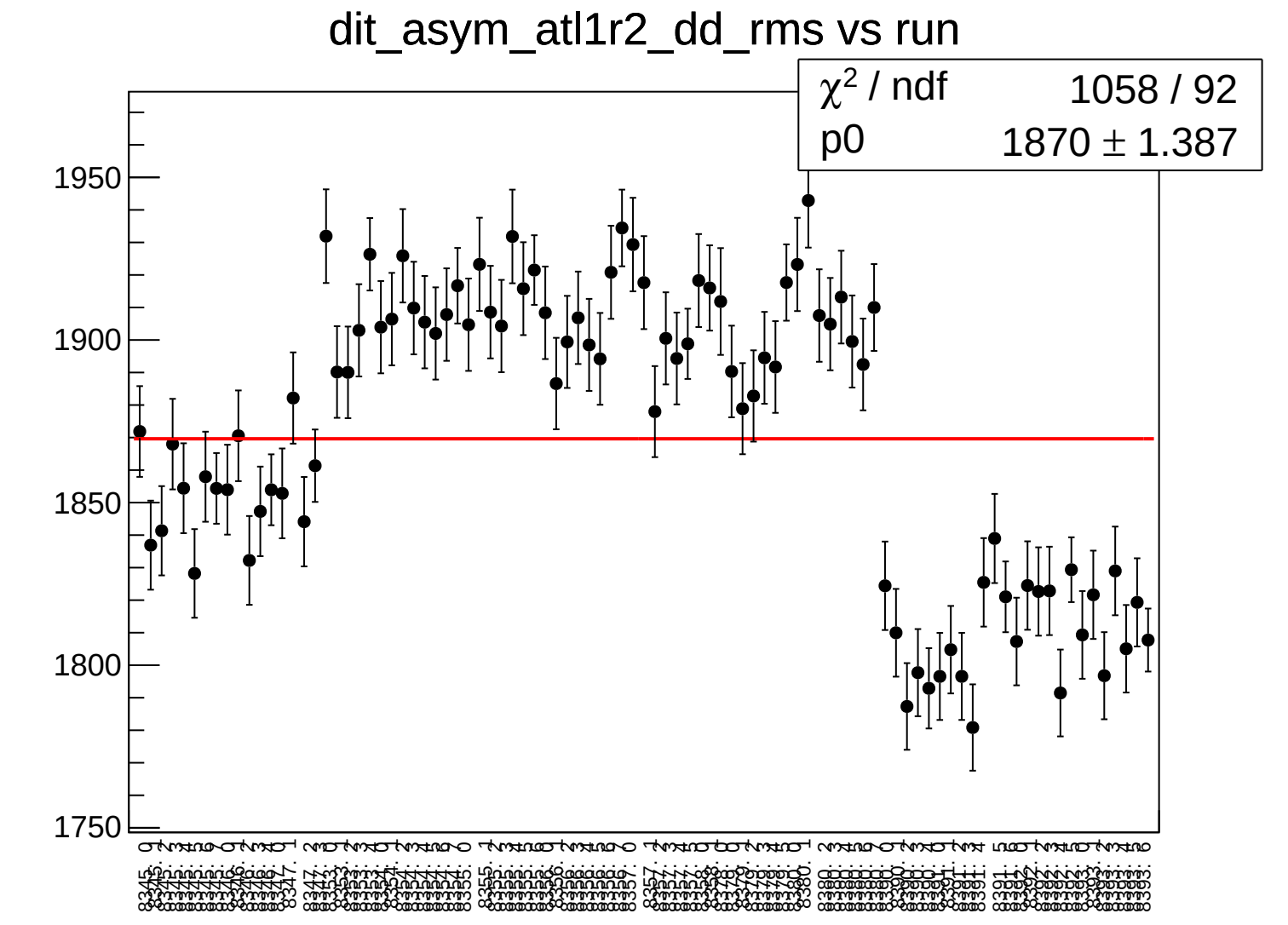

asym_atl1r2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 97.92 / 92
p0 −1.346e+04 ± 6681
200
100
0
−100
−200
−300
pull
Entries 93
Mean −214.7
Std Dev 0
2
1
0
−1
−2
−3

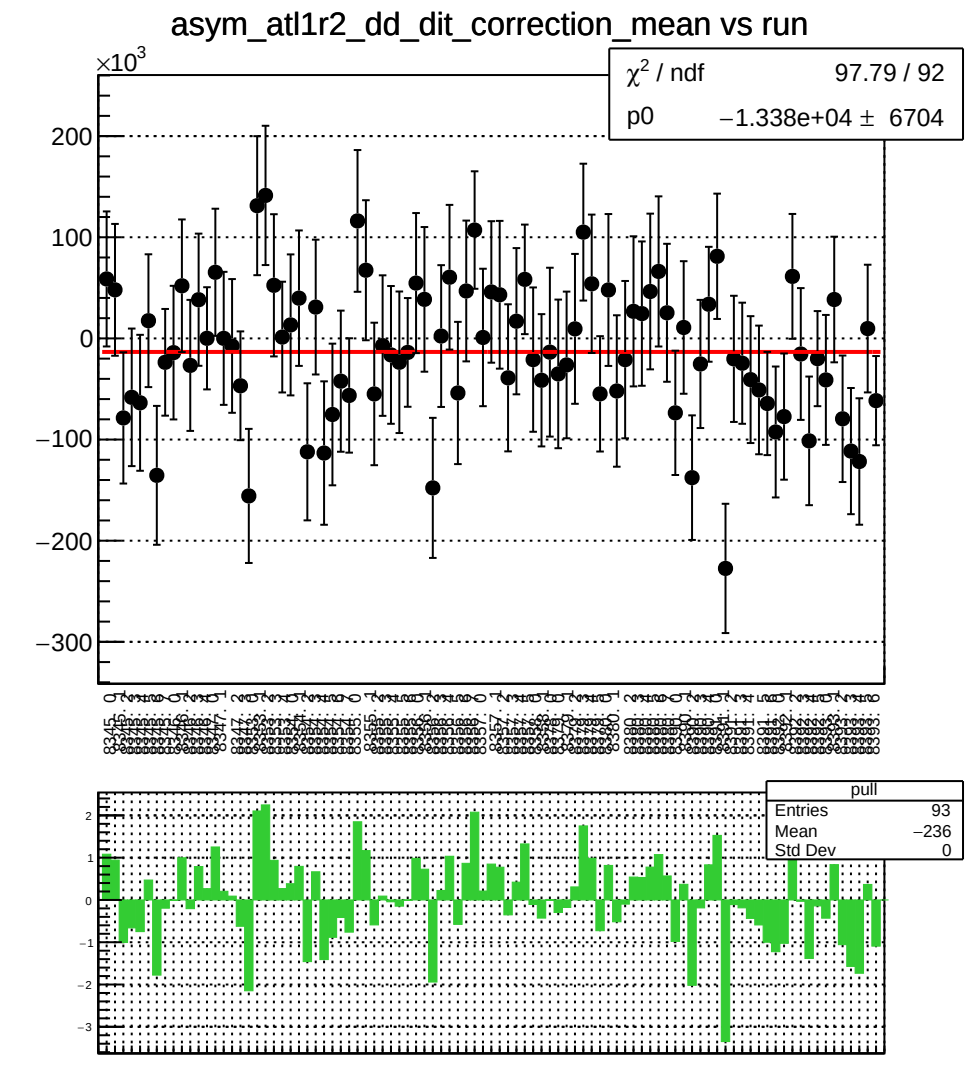

pull1D
Entries 93
Mean 0.02006
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

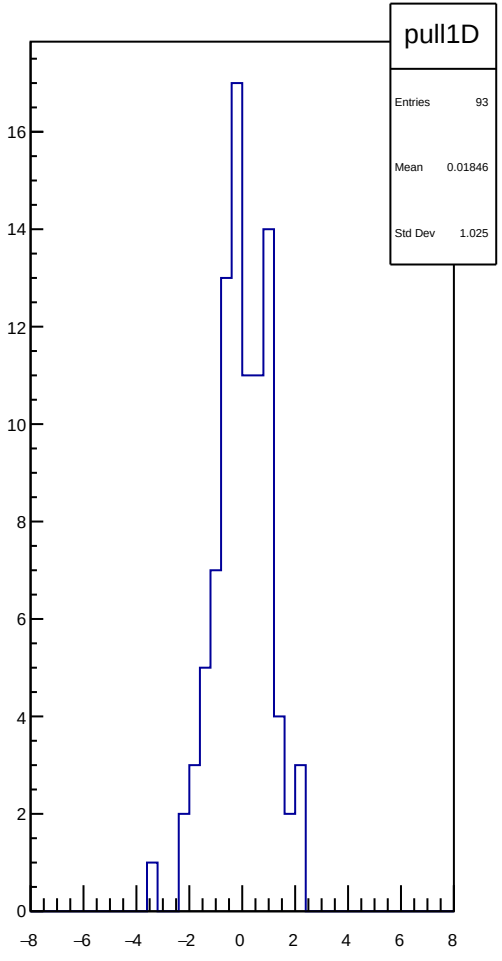

asym_atl1r2_dd_eigen_cor_correction_rms vs run
χ² / ndf 7258 / 92
p0 6359 ± 4.724
7500
7000
6500
6000
5500

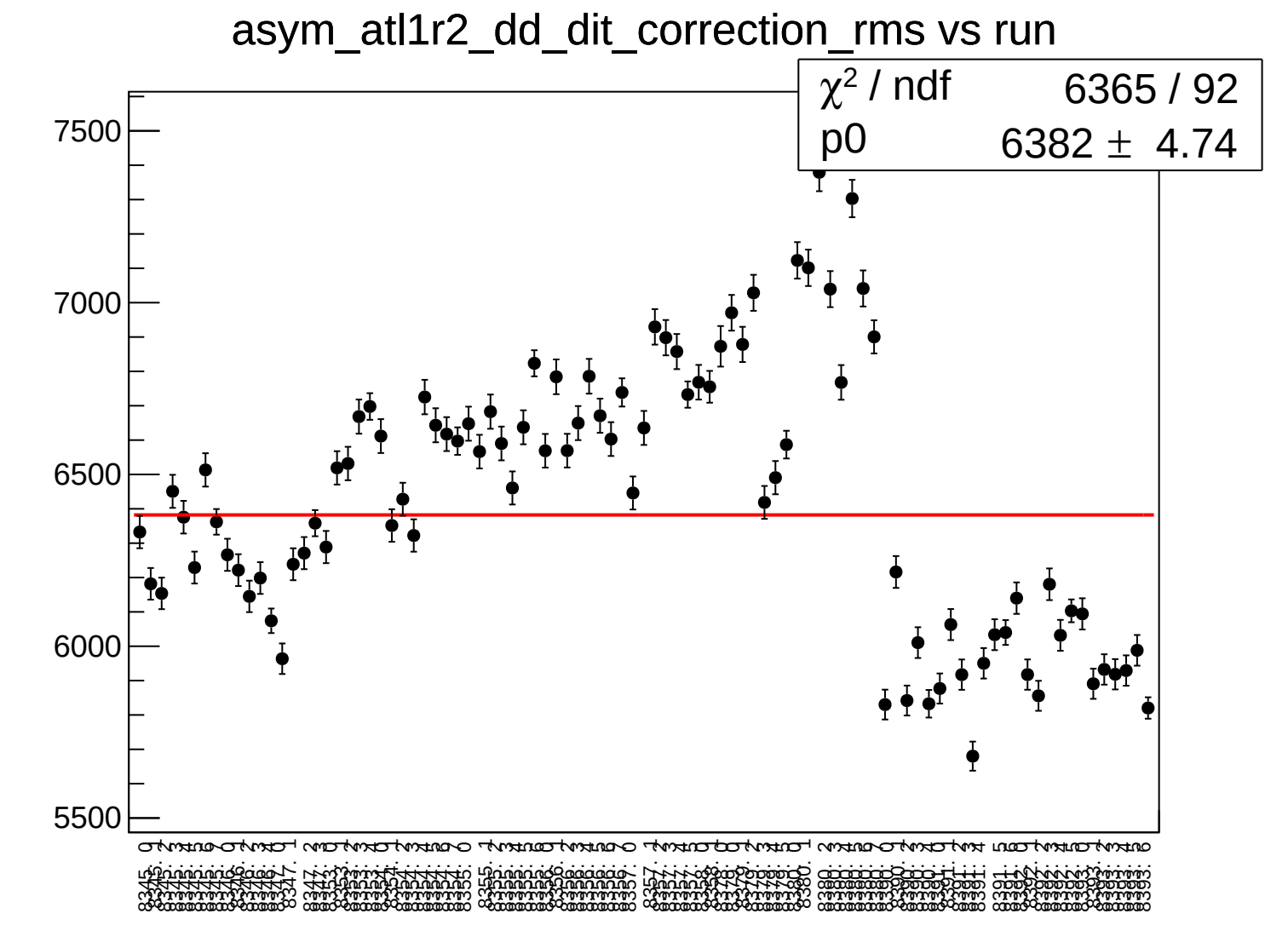

dit_asym_atl1r2_dd_mean vs run
χ² / ndf 80.45 / 92
p0 −4324 ± 1961
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 68.97
Std Dev 0
2
1
0
−1
−2
−3

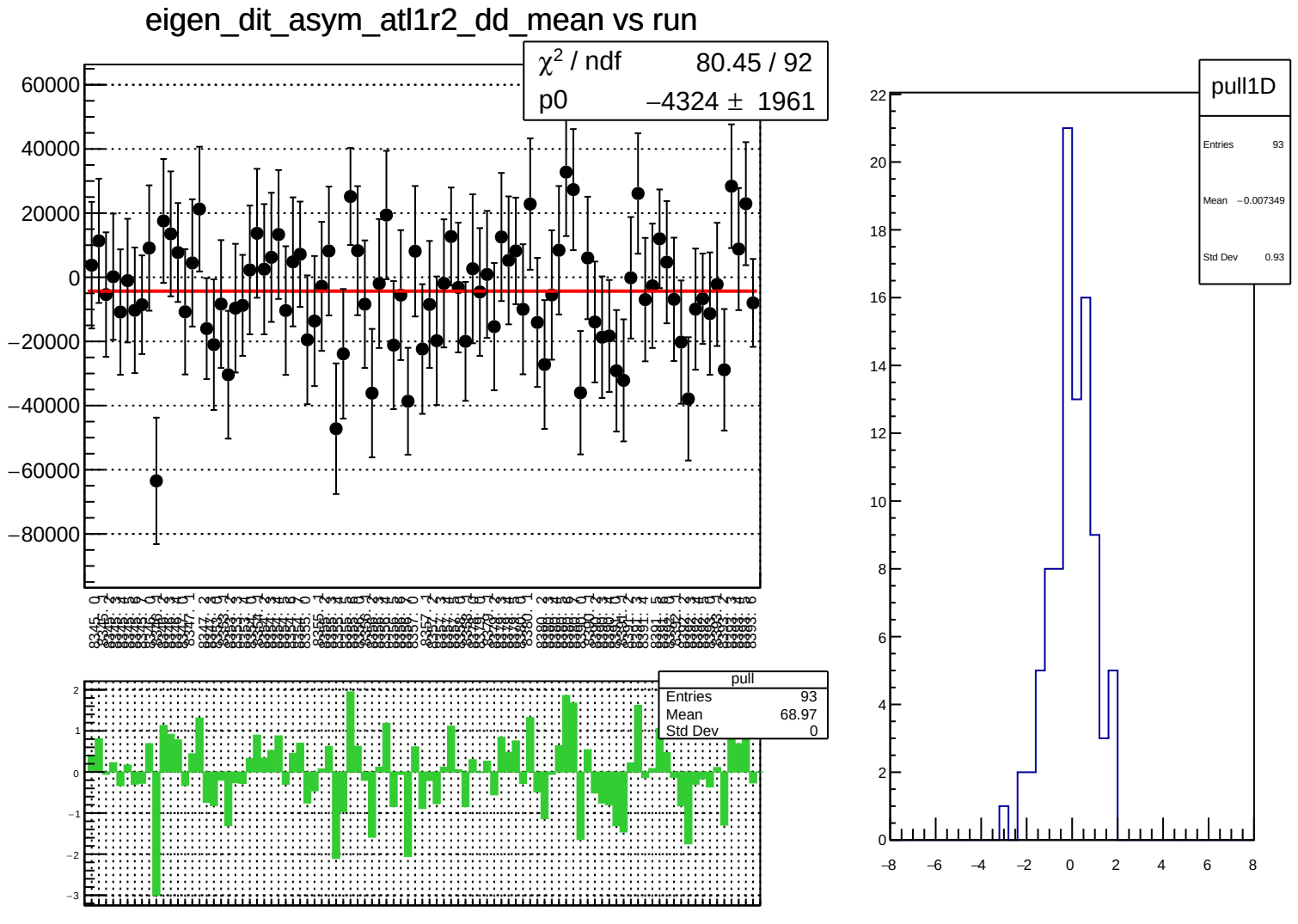

pull1D
Entries 93
Mean −0.007349
Std Dev 0.93
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

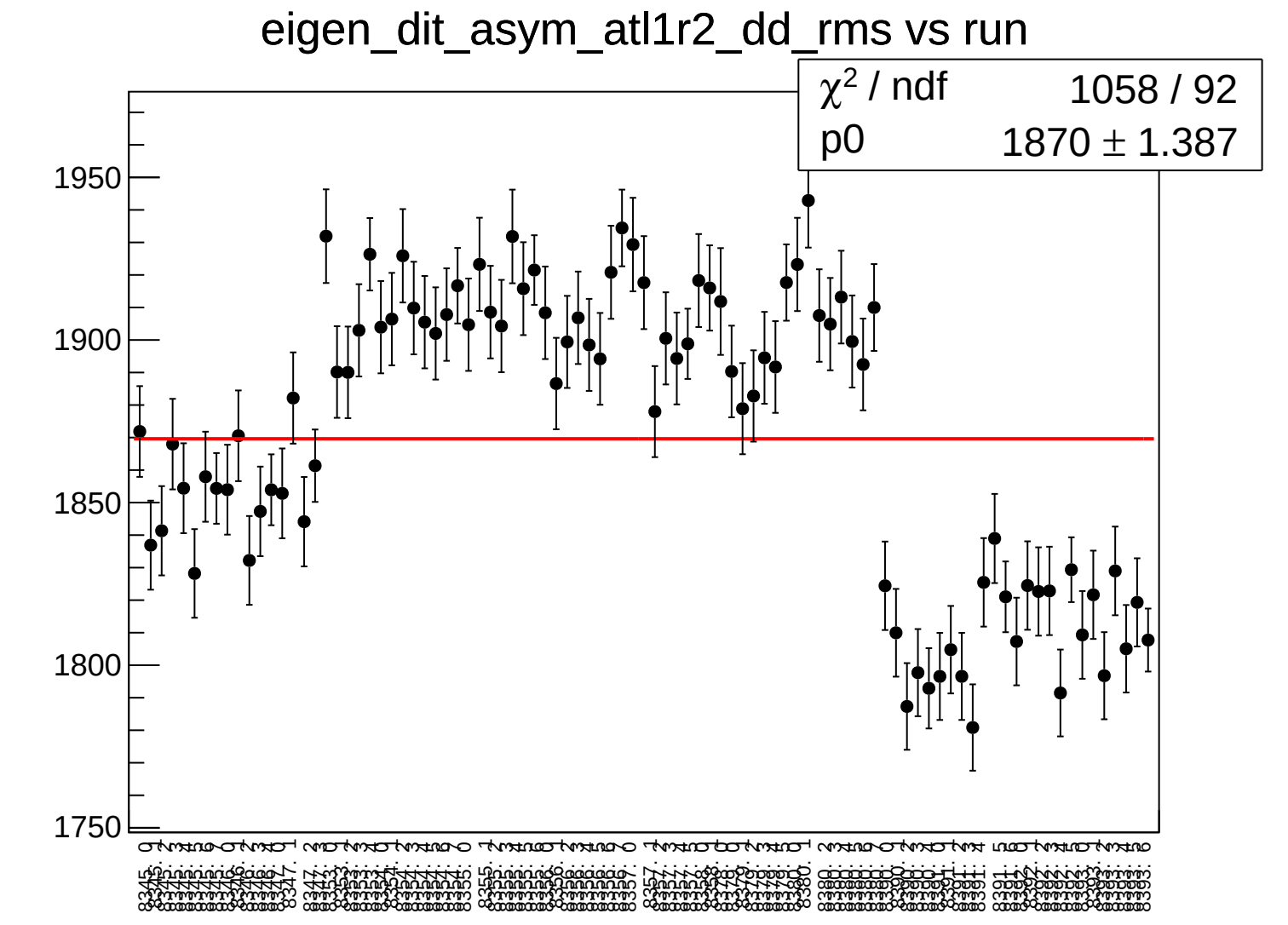

dit_asym_atl1r2_dd_rms vs run
χ² / ndf 1058 / 92
p0 1870 ± 1.387
1950
1900
1850
1800
1750

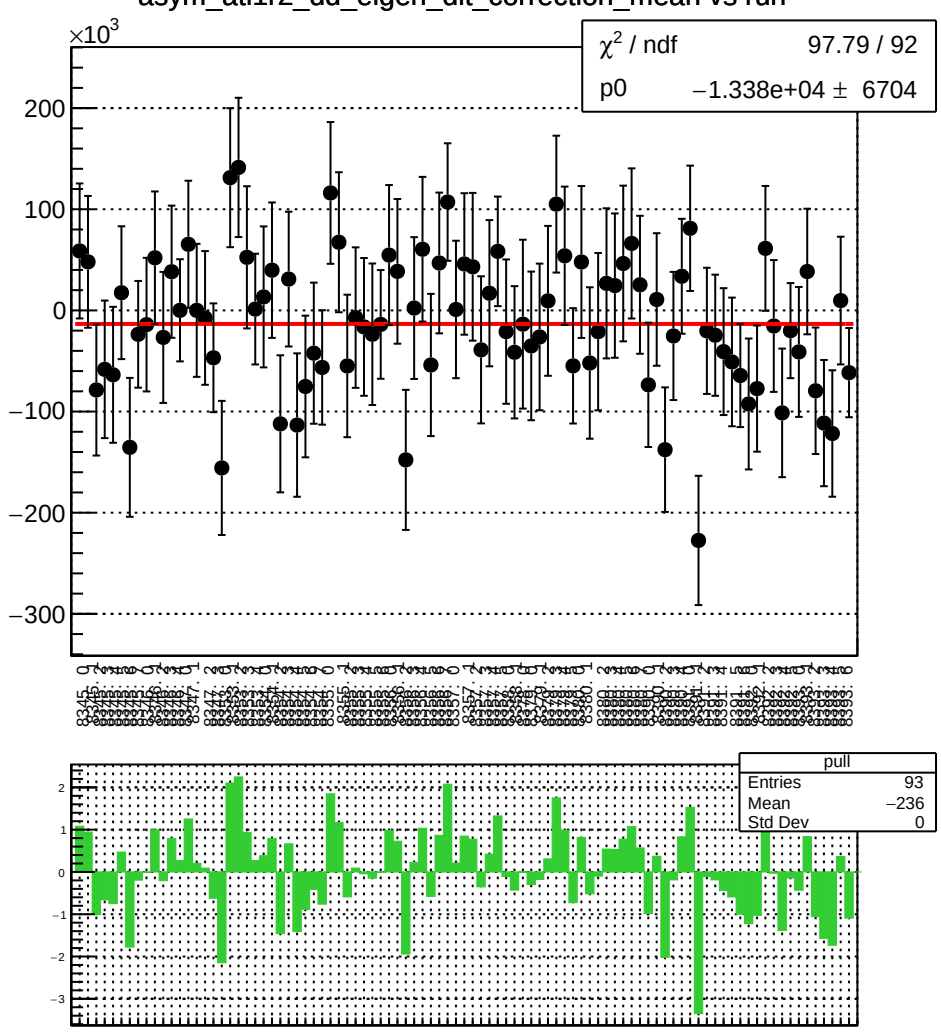

asym_atl1r2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 97.79 / 92
p0 −1.338e+04 ± 6704
200
100
0
−100
−200
−300
pull
Entries 93
Mean −236
Std Dev 0
2
1
0
−1
−2
−3

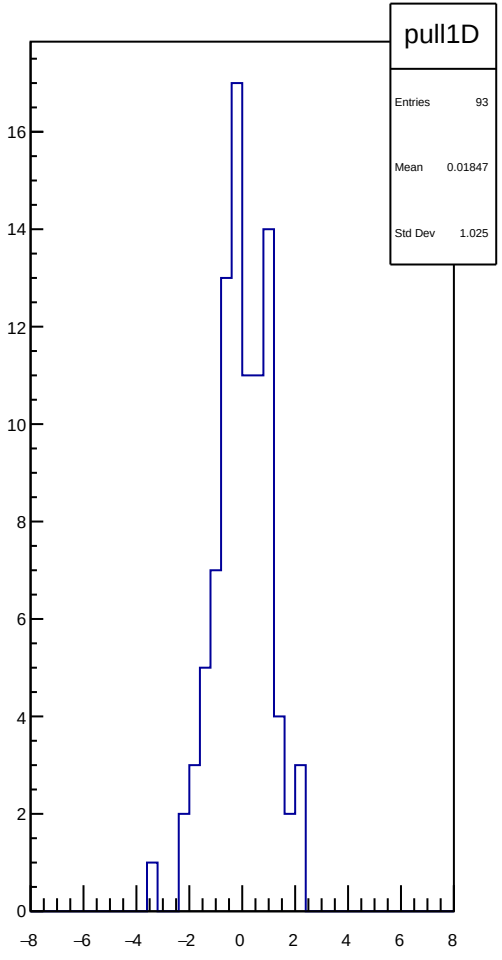

pull1D
Entries 93
Mean 0.01846
Std Dev 1.025
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

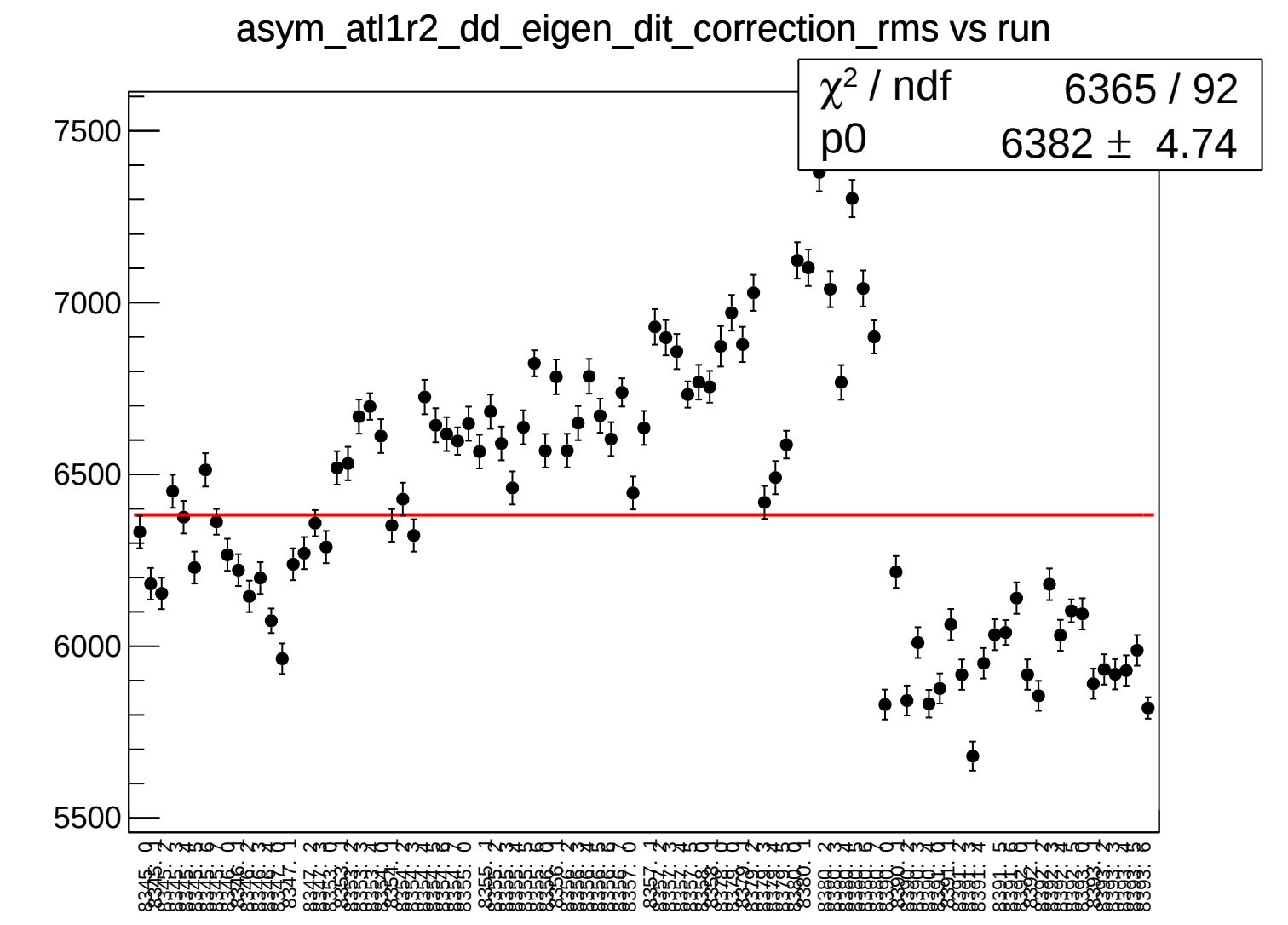

asym_atl1r2_dd_dit_correction_rms vs run
χ² / ndf 6365 / 92
p0 6382 ± 4.74
7500
7000
6500
6000
5500

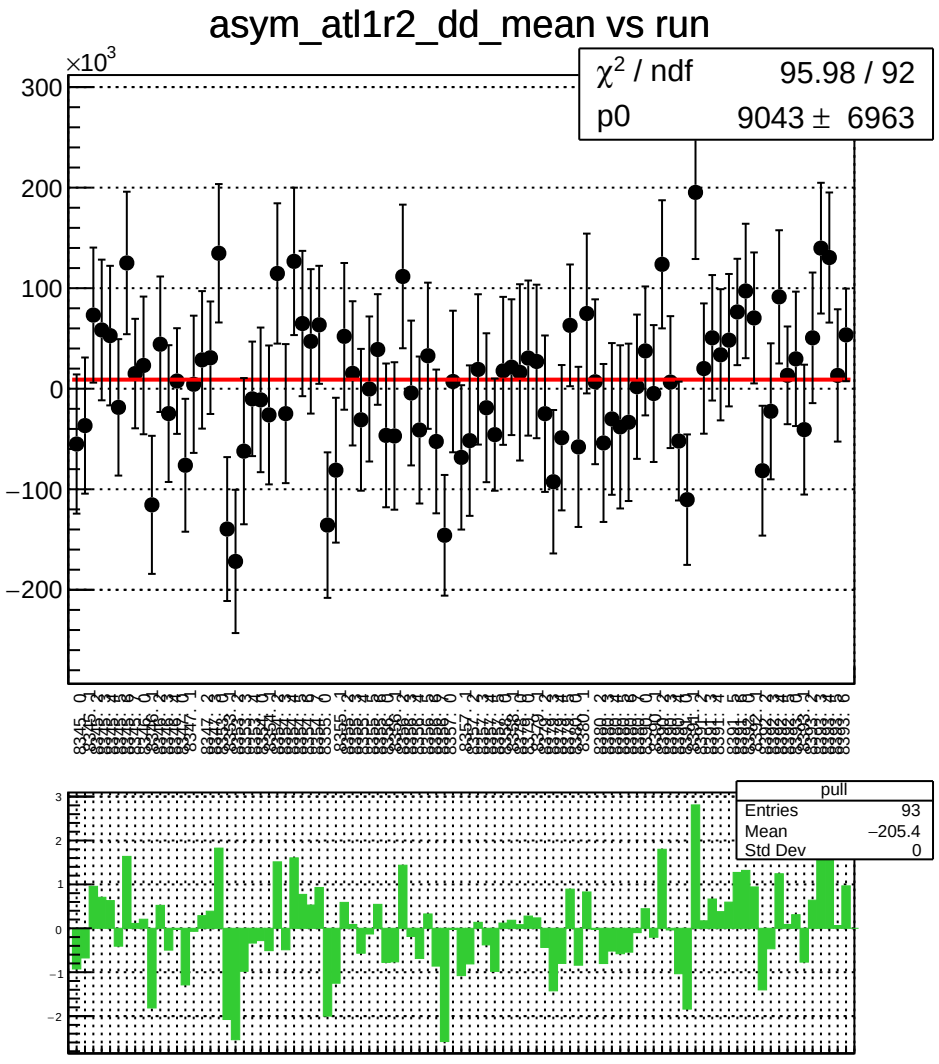

eigen_dit_asym_atl1r2_dd_mean vs run
χ² / ndf 80.45 / 92
p0 −4324 ± 1961
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 68.97
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.007349
Std Dev 0.93
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

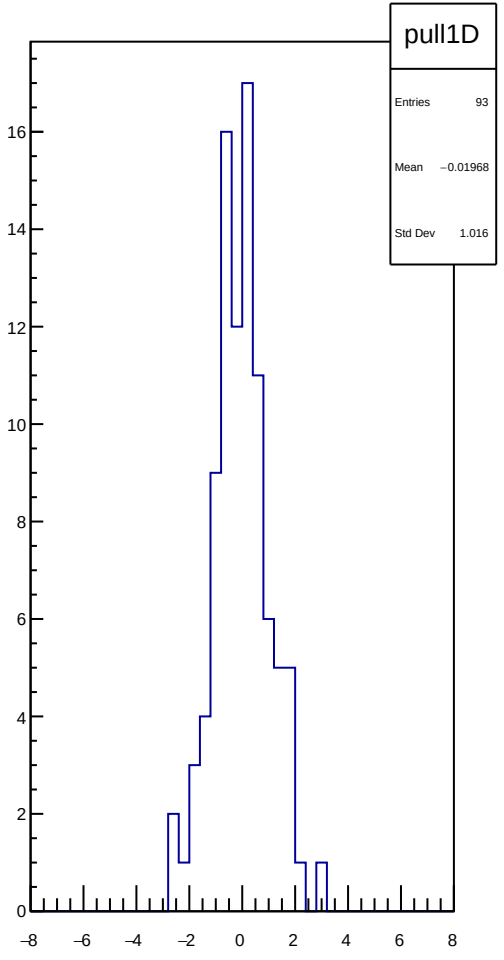

eigen_dit_asym_atl1r2_dd_rms vs run
χ² / ndf 1058 / 92
p0 1870 ± 1.387
1950
1900
1850
1800
1750

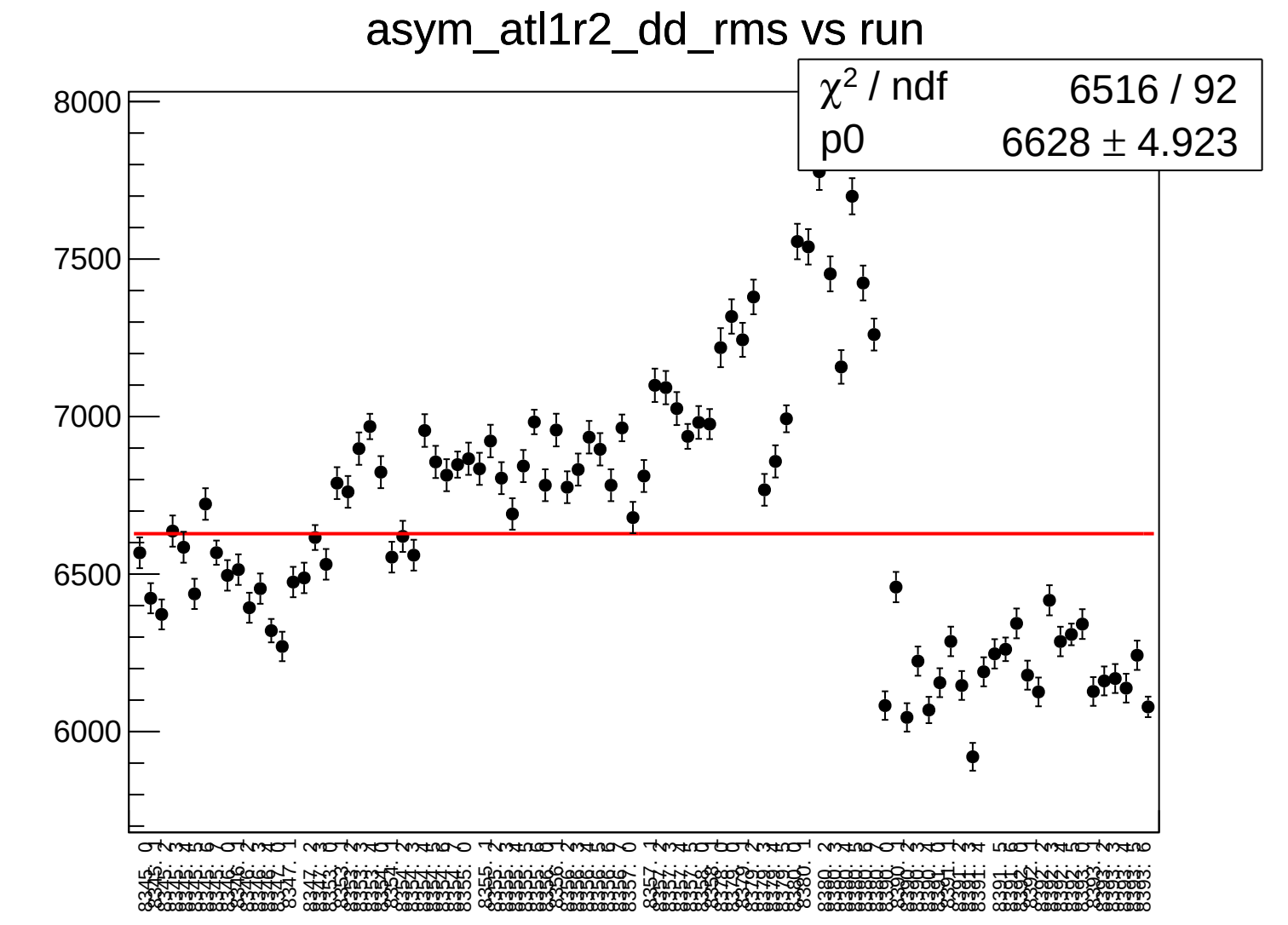

asym_atl1r2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 97.79 / 92
p0 −1.338e+04 ± 6704
pull
Entries 93
Mean −236
Std Dev 0

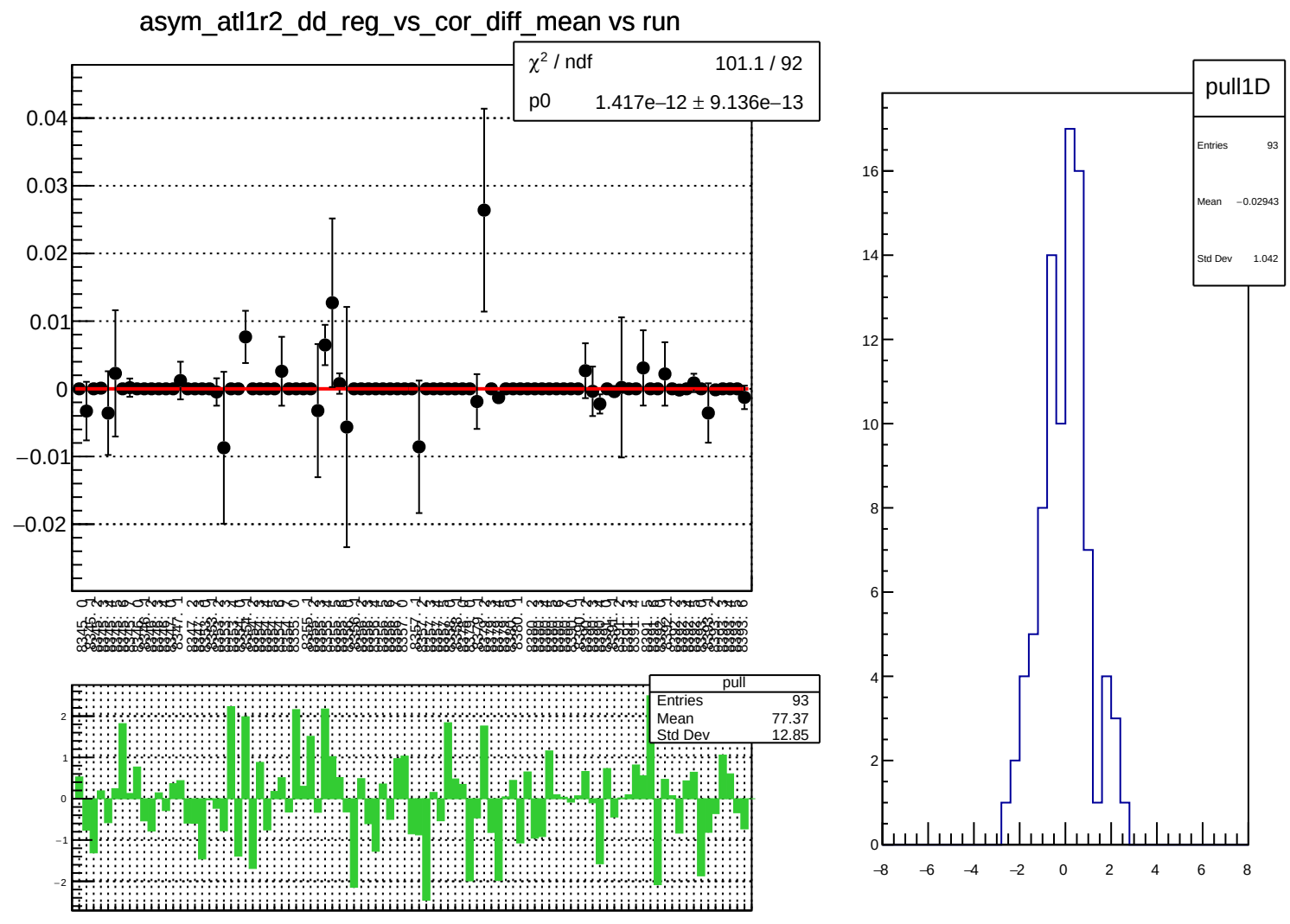

pull1D
Entries 93
Mean 0.01847
Std Dev 1.025

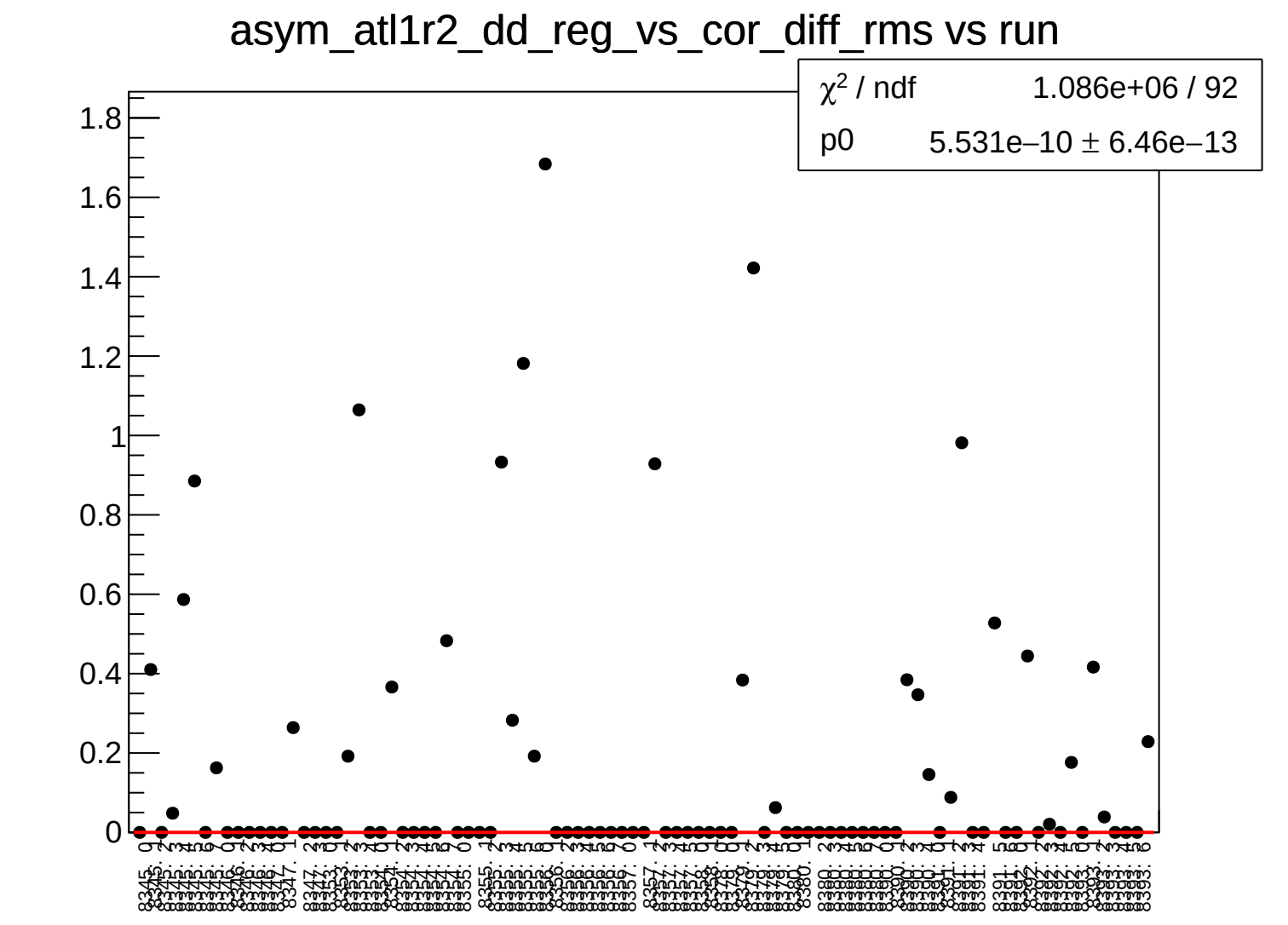

asym_atl1r2_dd_eigen_dit_correction_rms vs run
χ² / ndf 6365 / 92
p0 6382 ± 4.74
7500
7000
6500
6000
5500

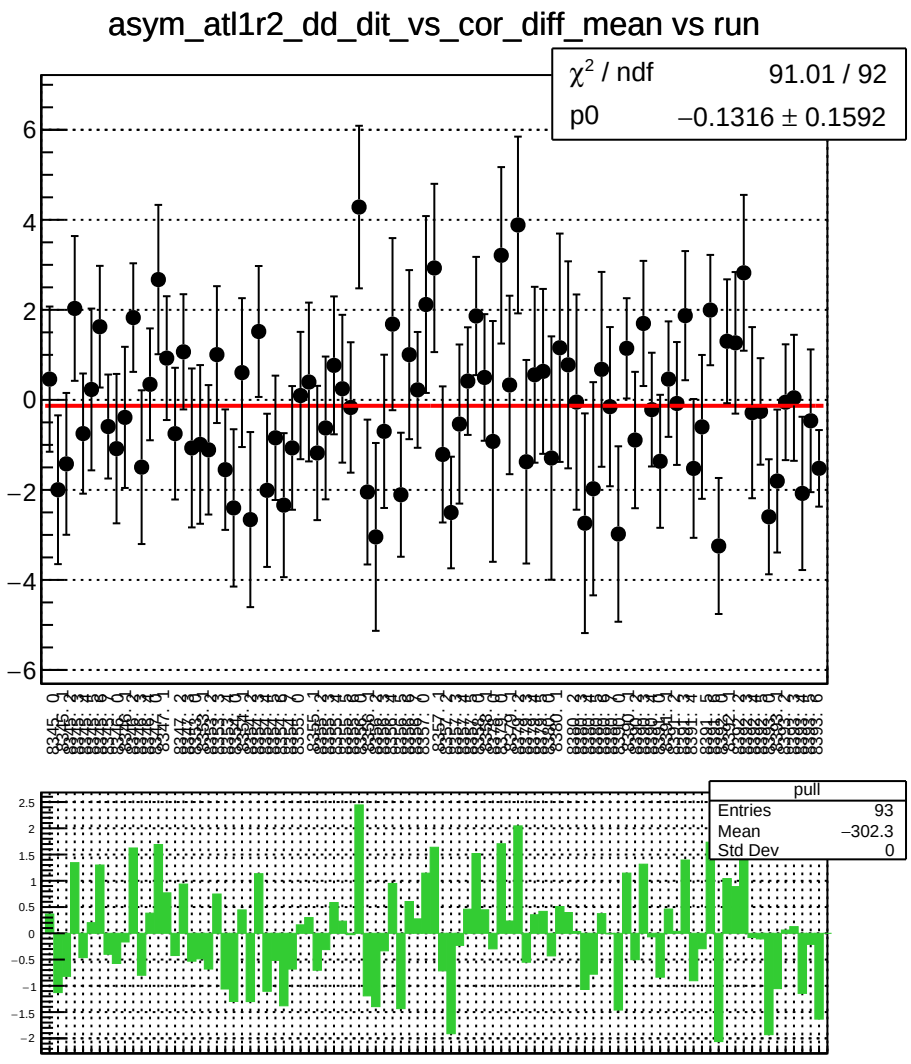

asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 95.98 / 92
p0 9043 ± 6963
pull
Entries 93
Mean −205.4
Std Dev 0

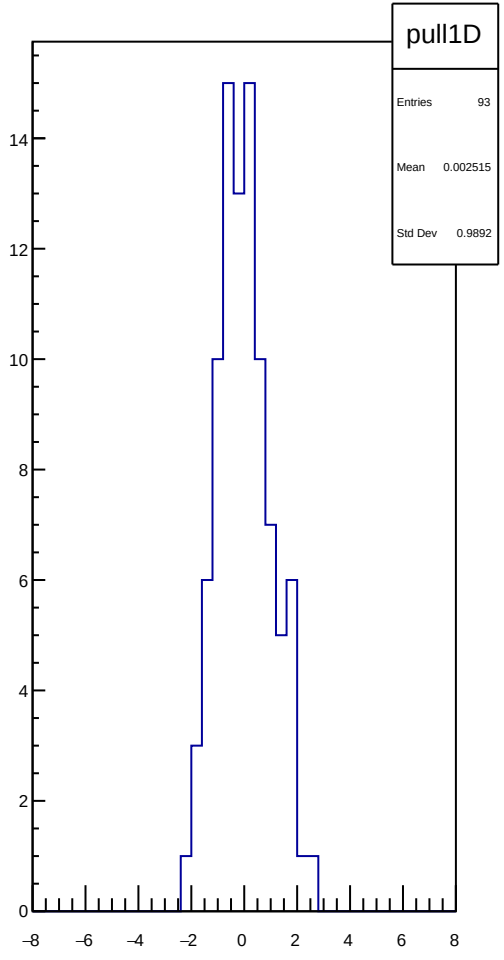

pull1D
Entries 93
Mean −0.01968
Std Dev 1.016

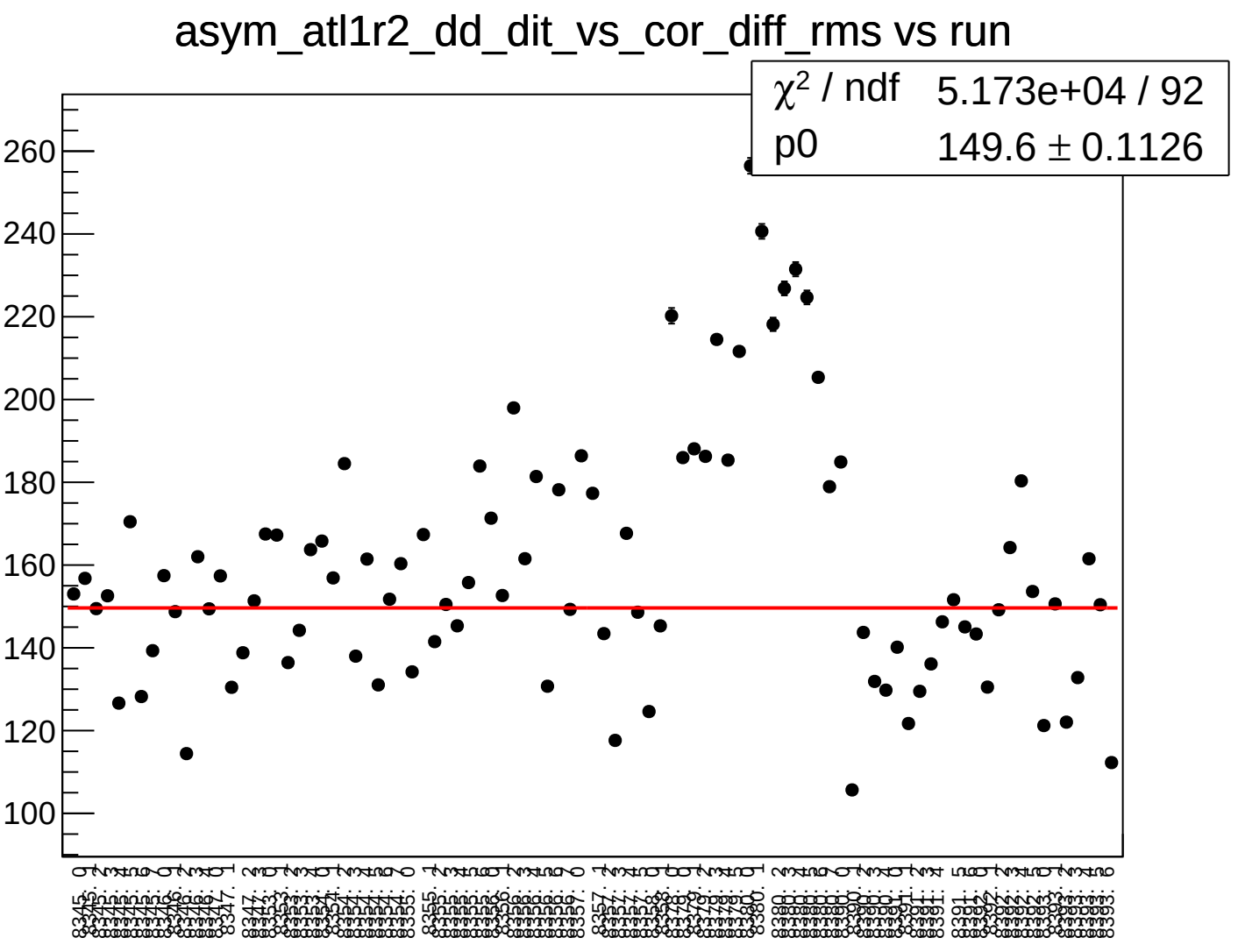

asym_atl1r2_dd_rms vs run
χ² / ndf 6516 / 92
p0 6628 ± 4.923
8000
7500
7000
6500
6000

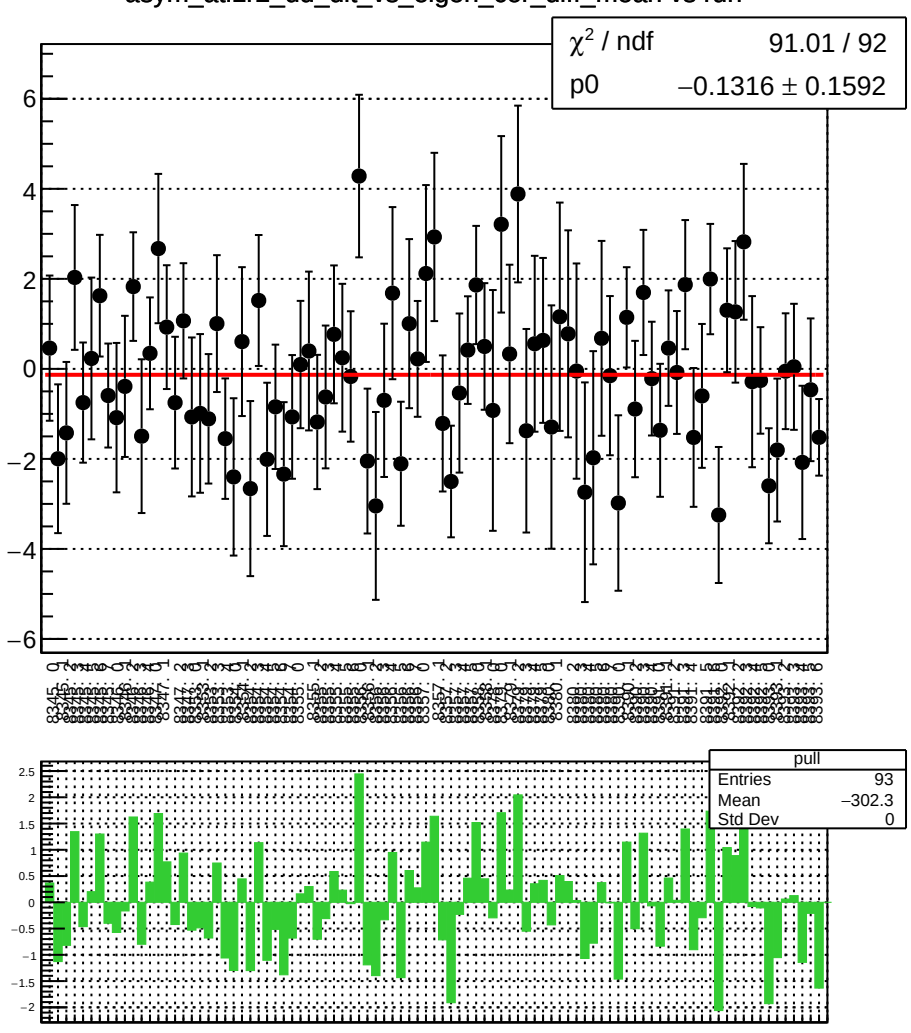

asym_atl1r2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 101.1 / 92
p0 1.417e−12 ± 9.136e−13
0.04
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 93
Mean 77.37
Std Dev 12.85
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.02943
Std Dev 1.042
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

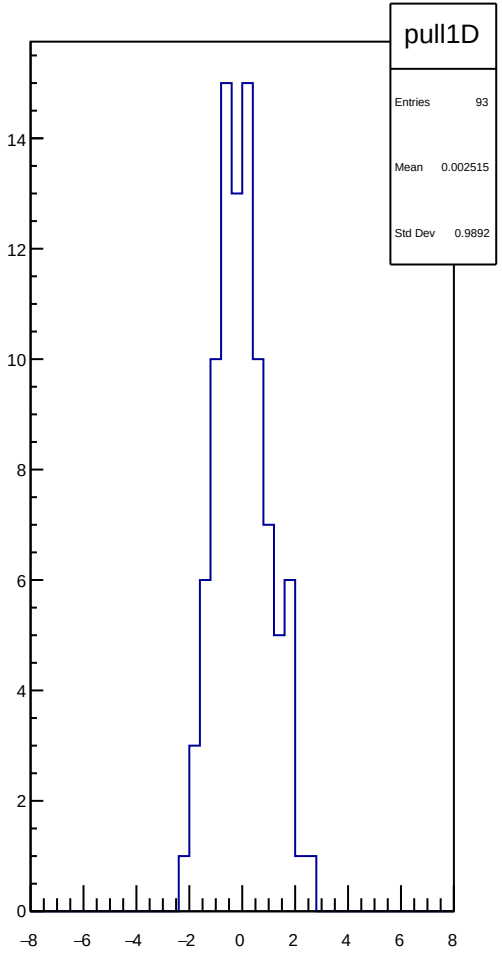

asym_atl1r2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.086e+06 / 92
p0 5.531e−10 ± 6.46e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

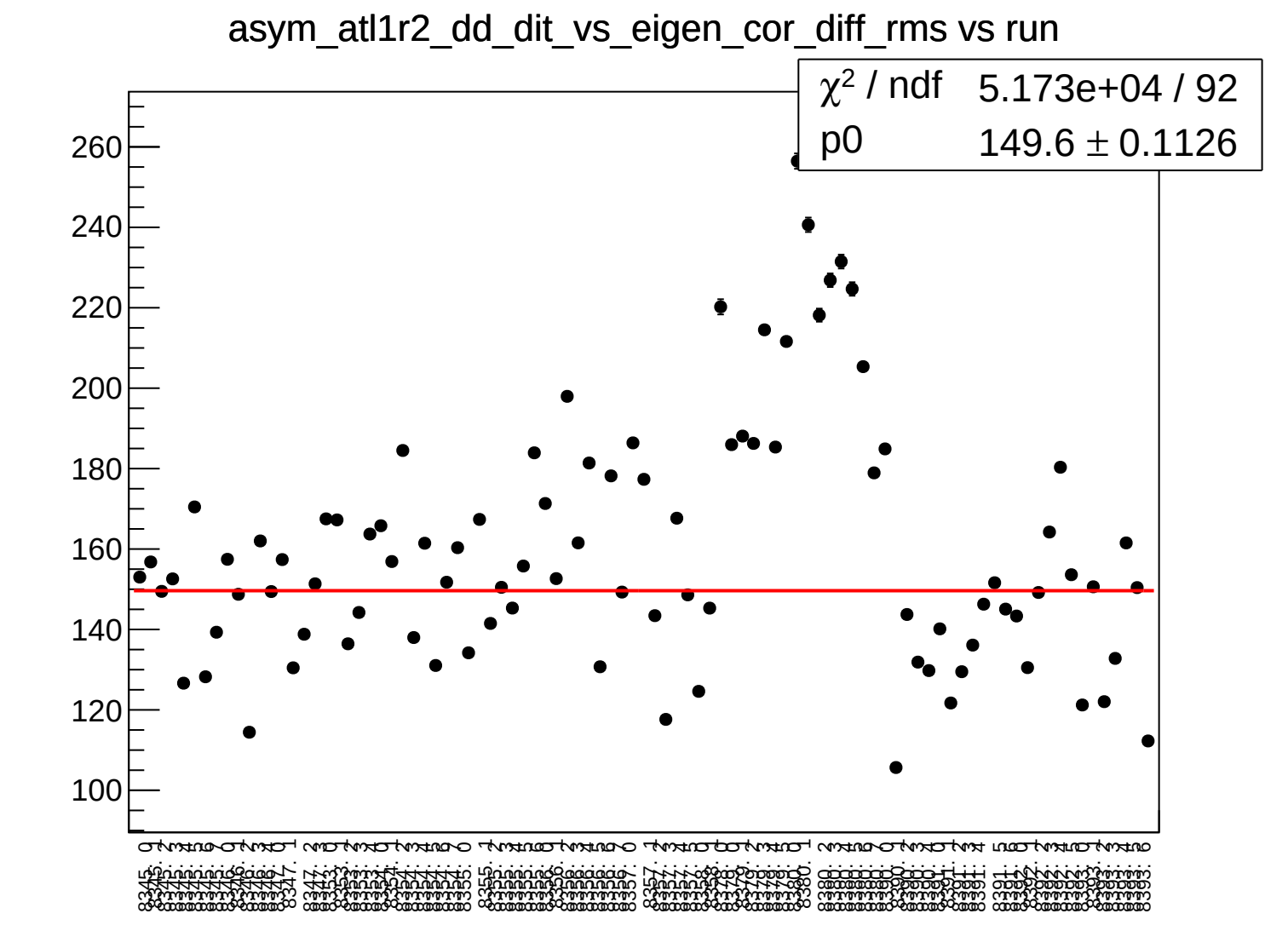

asym_atl1r2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 91.01 / 92
p0 −0.1316 ± 0.1592
pull
Entries 93
Mean −302.3
Std Dev 0

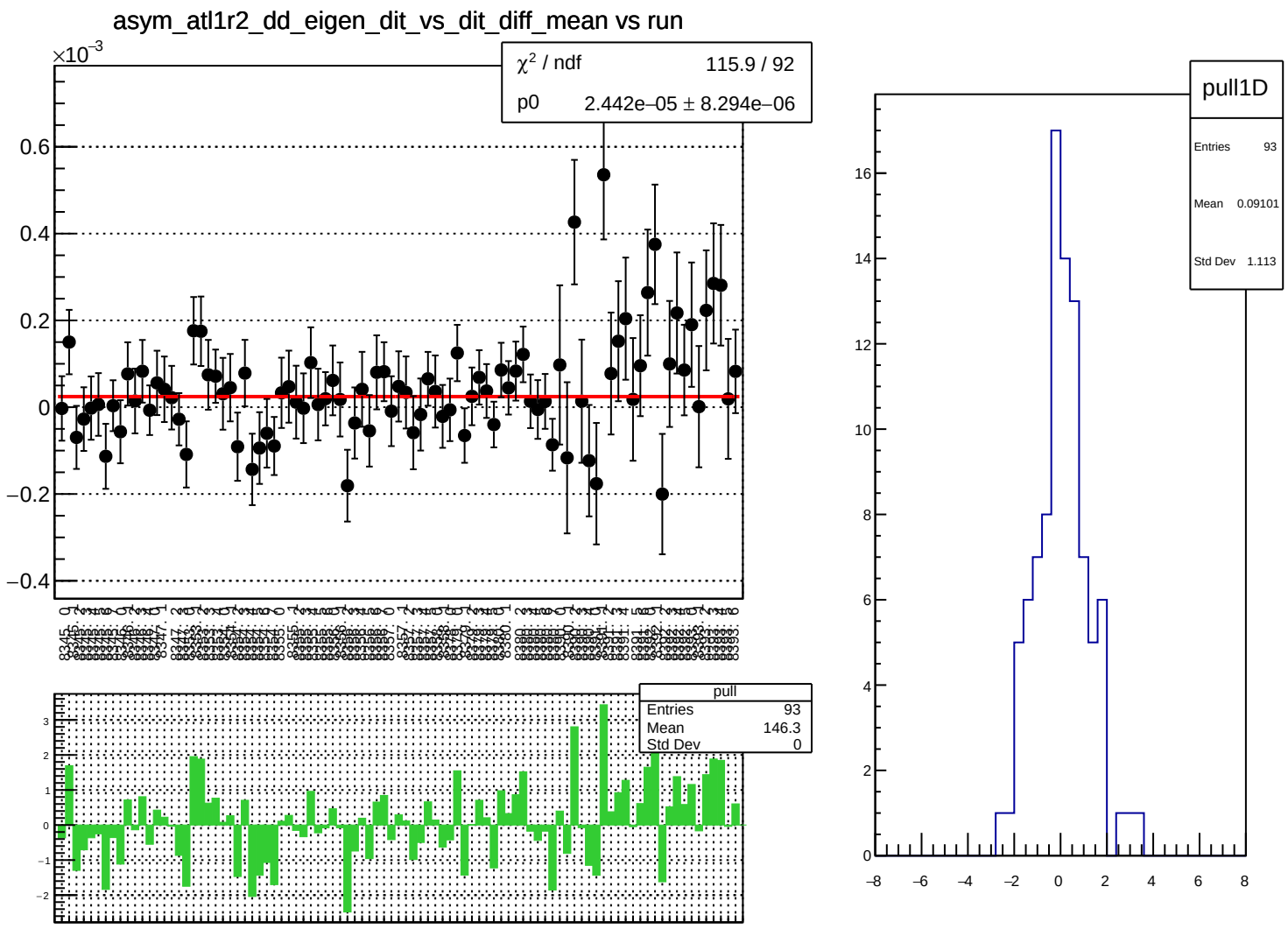

pull1D
Entries 93
Mean 0.002515
Std Dev 0.9892

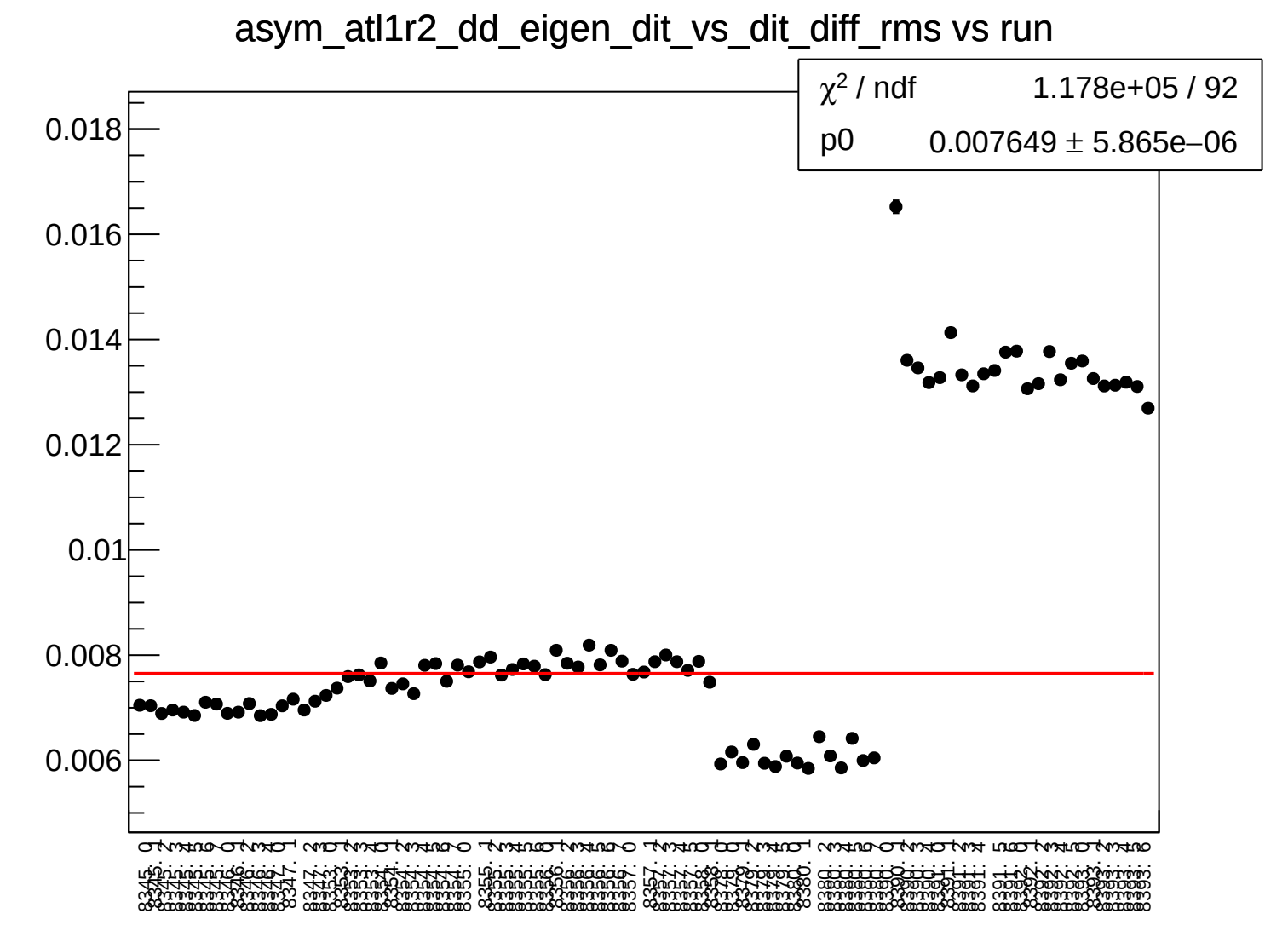

asym_atl1r2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.173e+04 / 92
p0 149.6 ± 0.1126
260
240
220
200
180
160
140
120
100

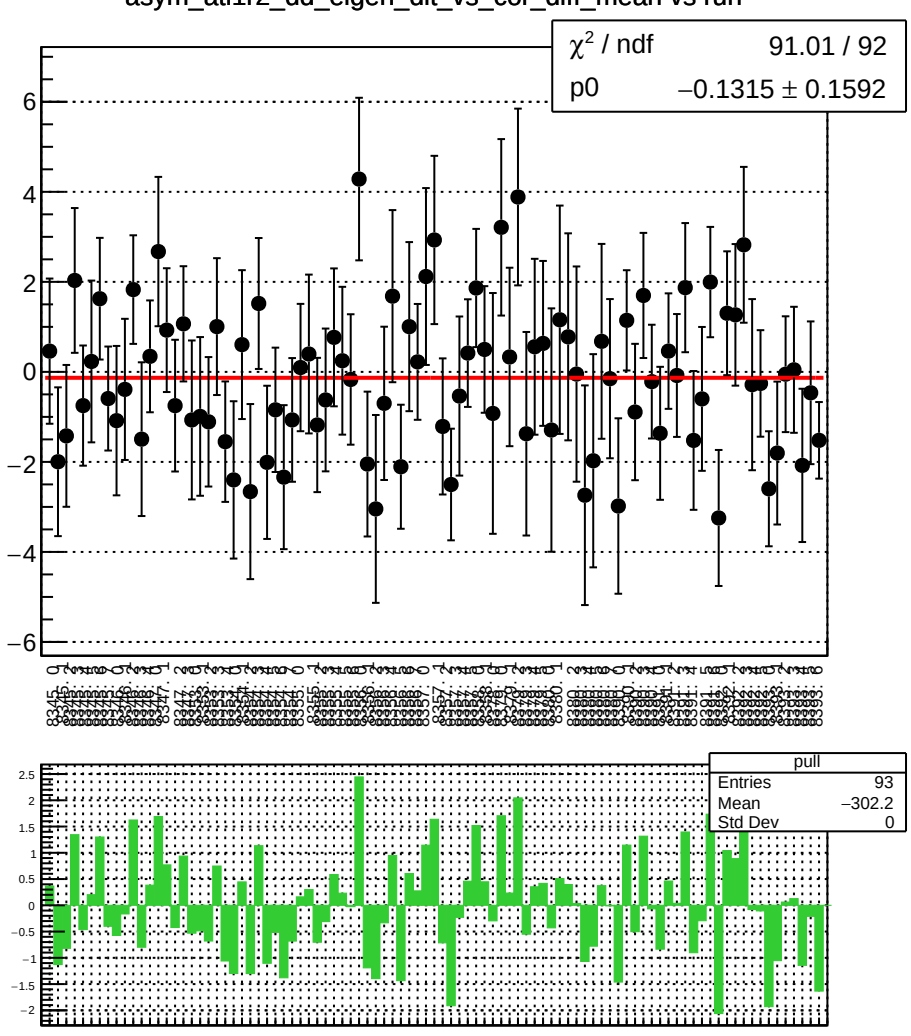

asym_atl1r2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.01 / 92
p0 −0.1316 ± 0.1592
pull
Entries 93
Mean −302.3
Std Dev 0

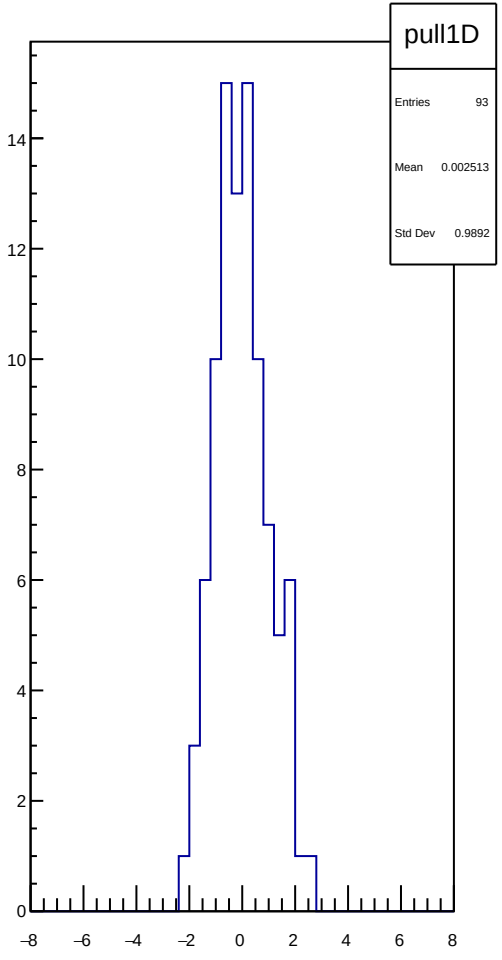

pull1D
Entries 93
Mean 0.002515
Std Dev 0.9892

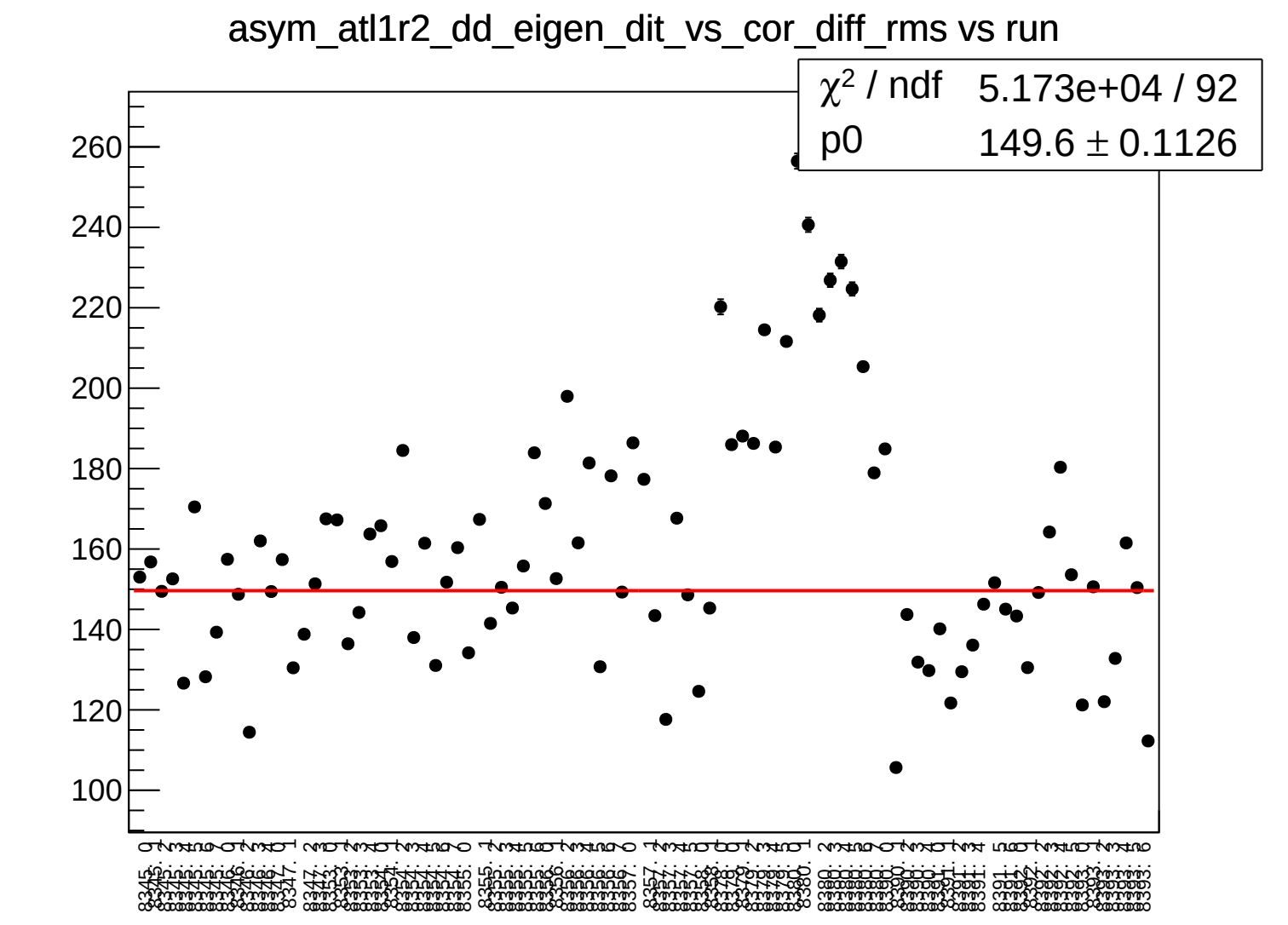

asym_atl1r2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.173e+04 / 92
p0 149.6 ± 0.1126
260
240
220
200
180
160
140
120
100

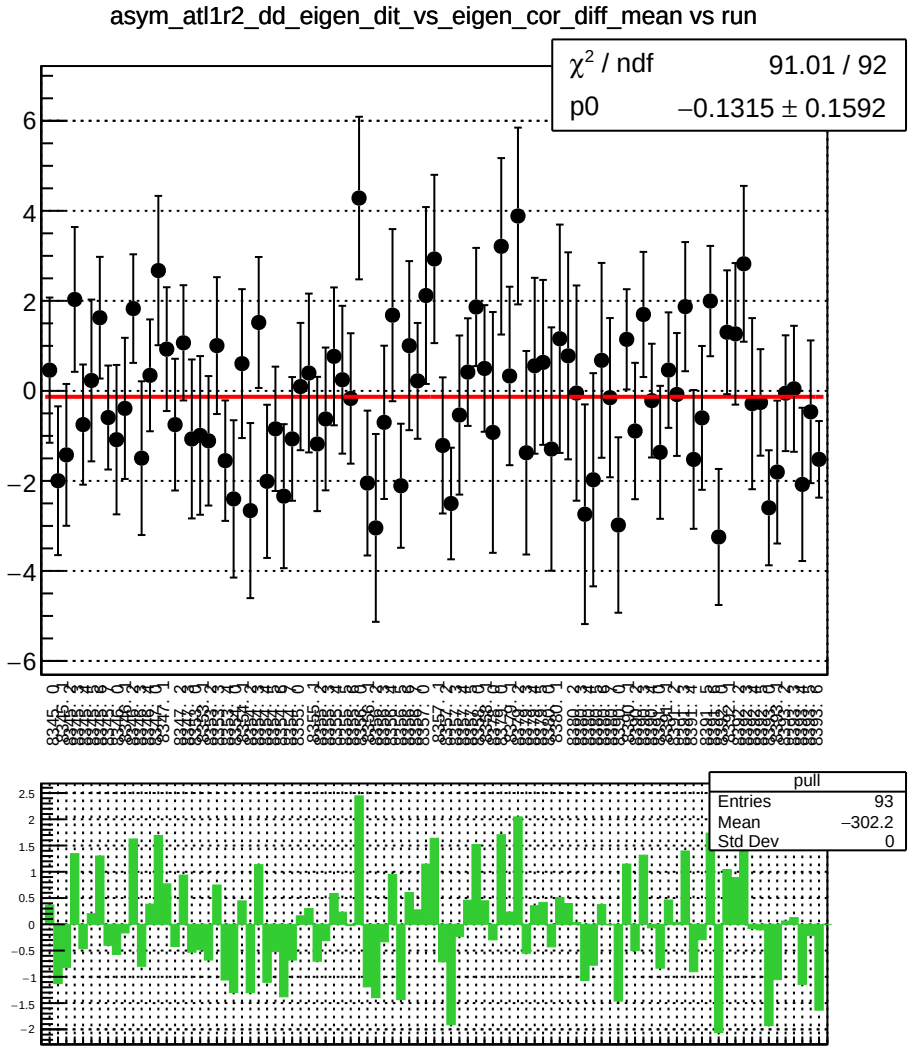

asym_atl1r2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 115.9 / 92
p0 2.442e−05 ± 8.294e−06
0.6
0.4
0.2
0
−0.2
−0.4
pull
Entries 93
Mean 146.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.09101
Std Dev 1.113
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

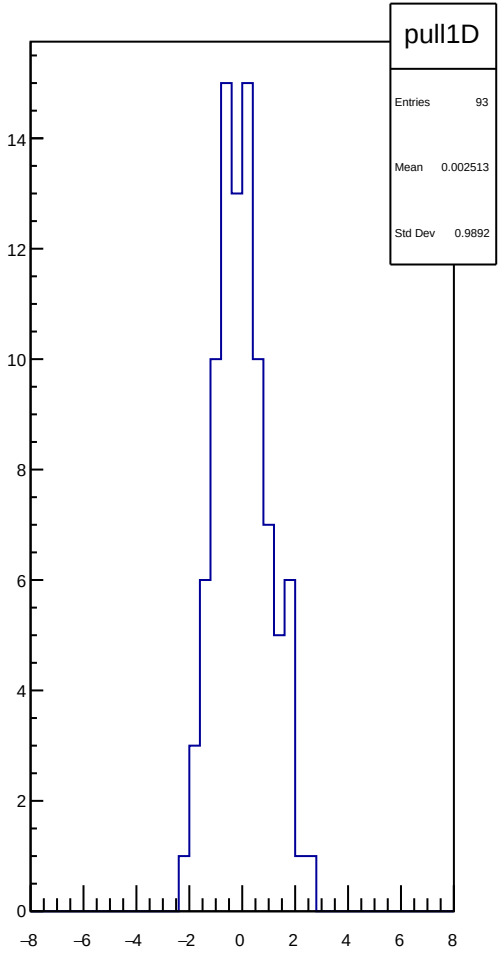

asym_atl1r2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.178e+05 / 92
p0 0.007649 ± 5.865e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006

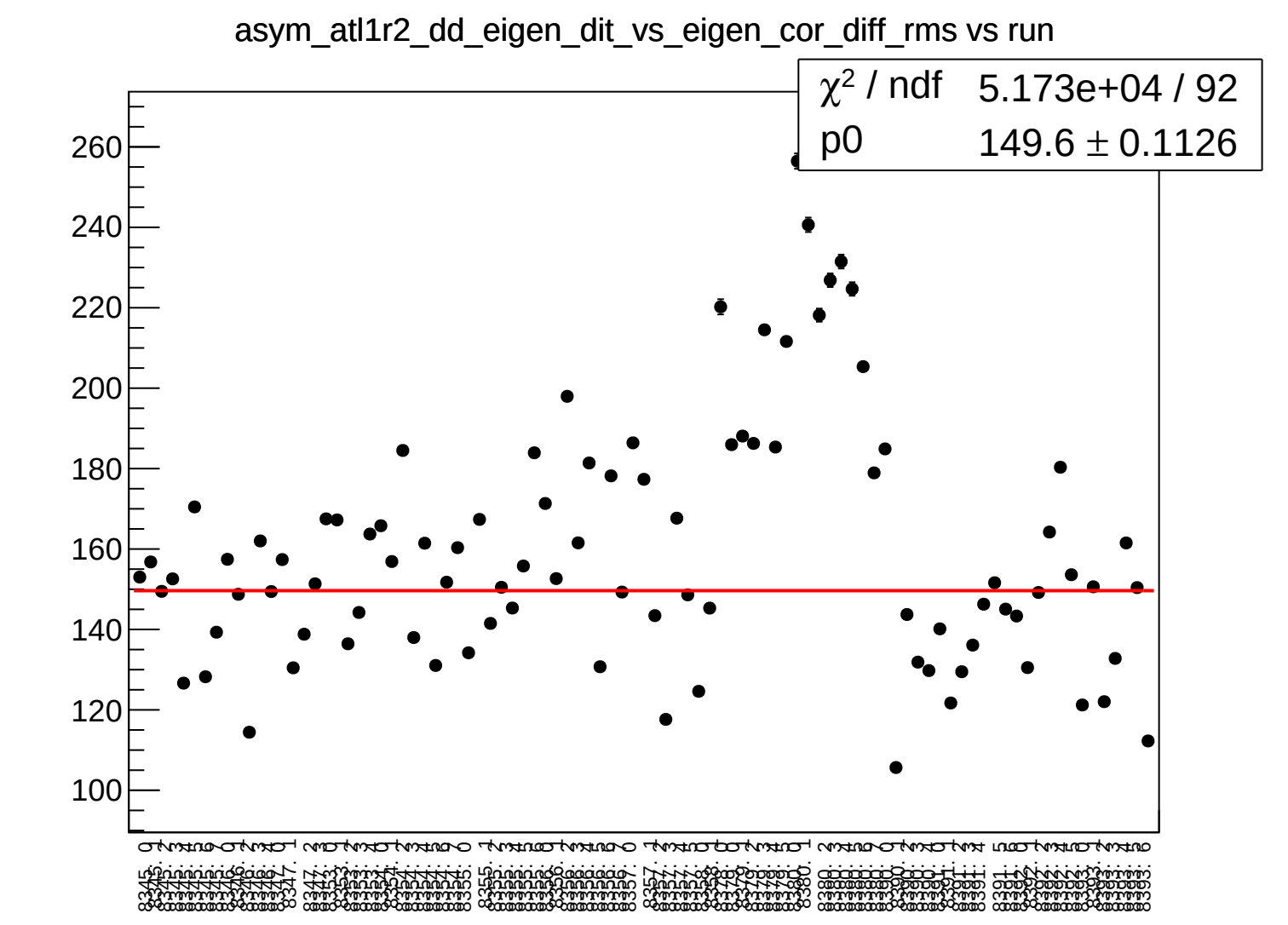

asym_atl1r2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.01 / 92
p0 −0.1315 ± 0.1592
pull
Entries 93
Mean −302.2
Std Dev 0

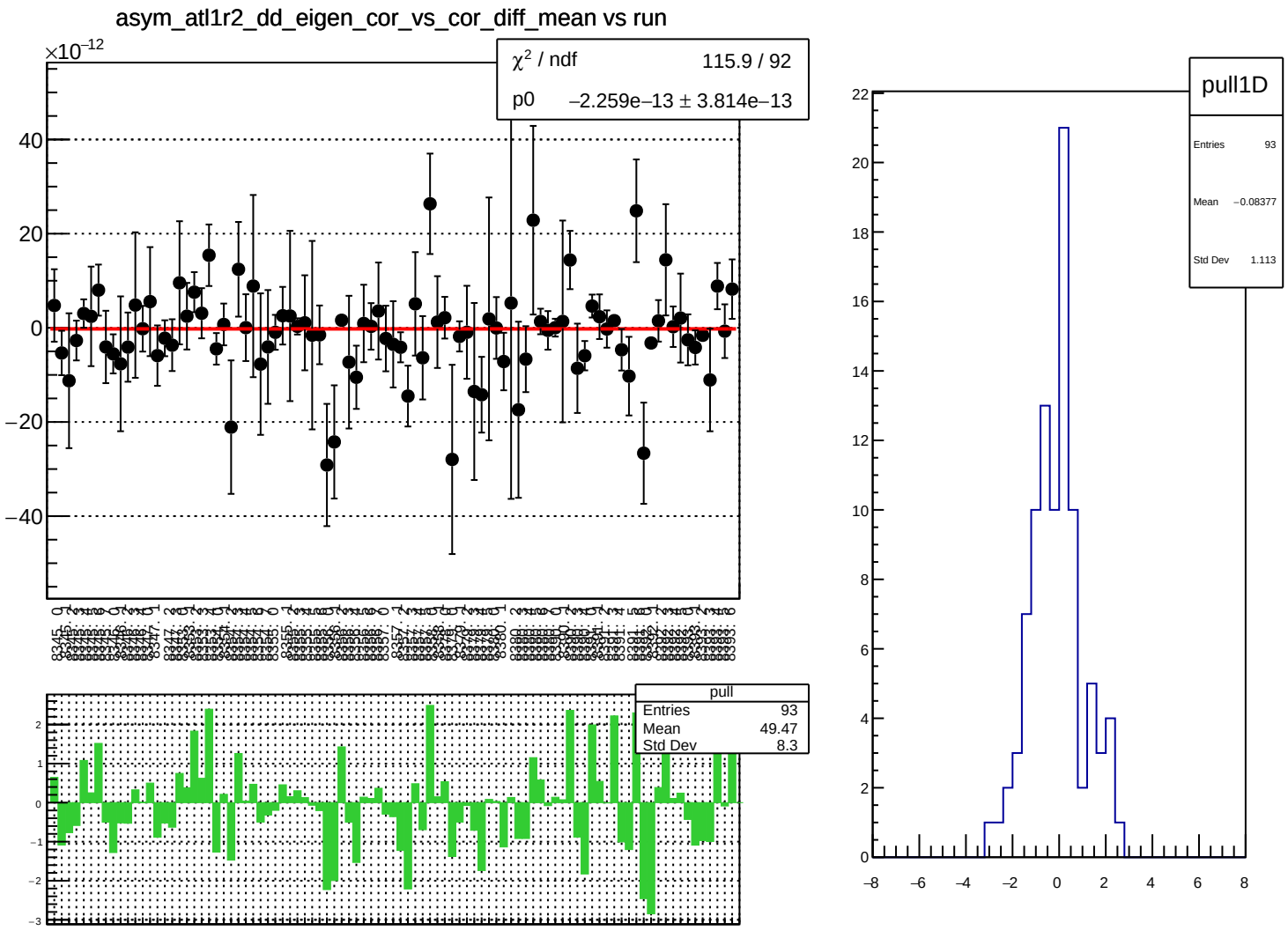

pull1D
Entries 93
Mean 0.002513
Std Dev 0.9892

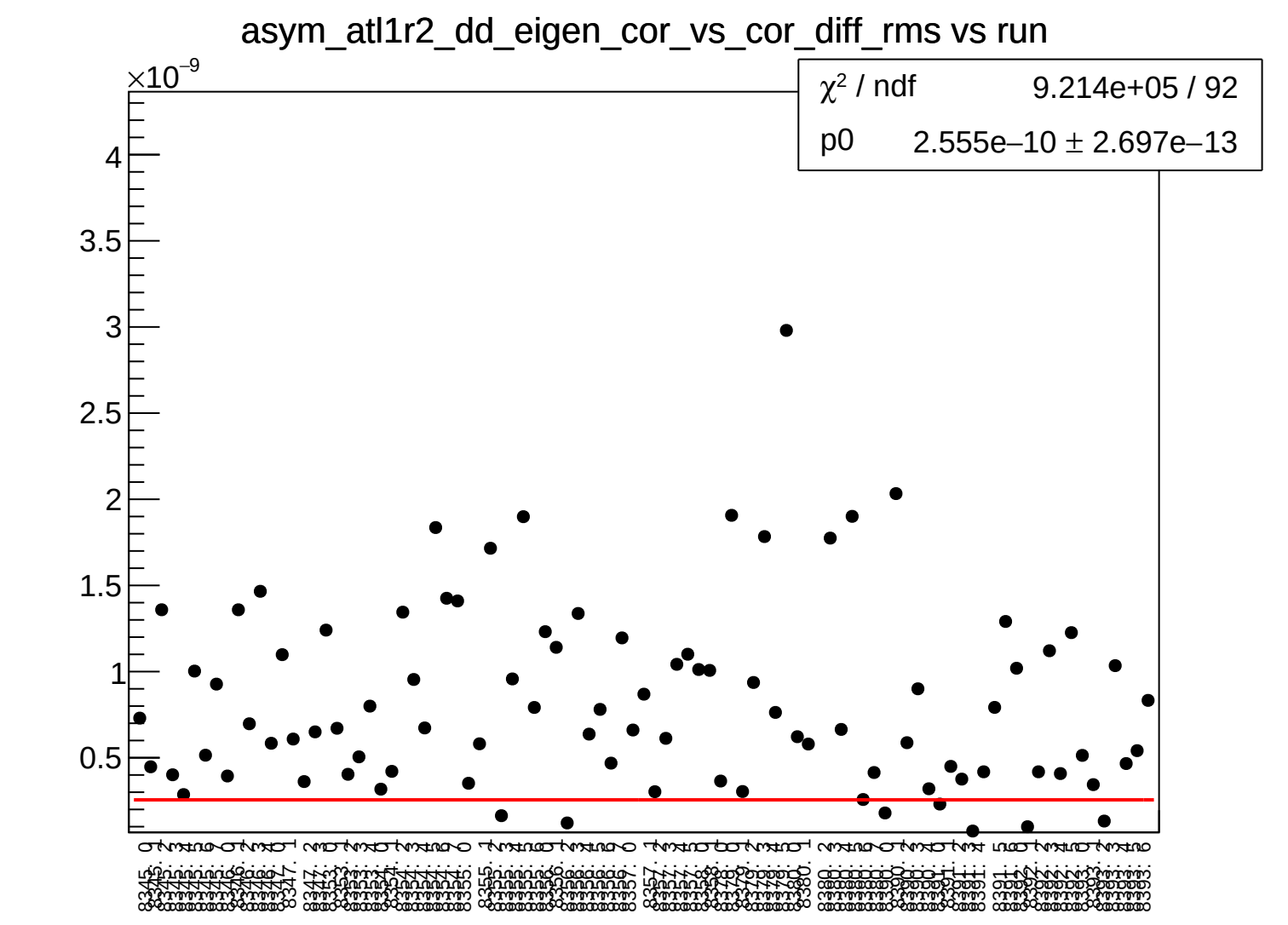

asym_atl1r2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.173e+04 / 92
p0 149.6 ± 0.1126
260
240
220
200
180
160
140
120
100

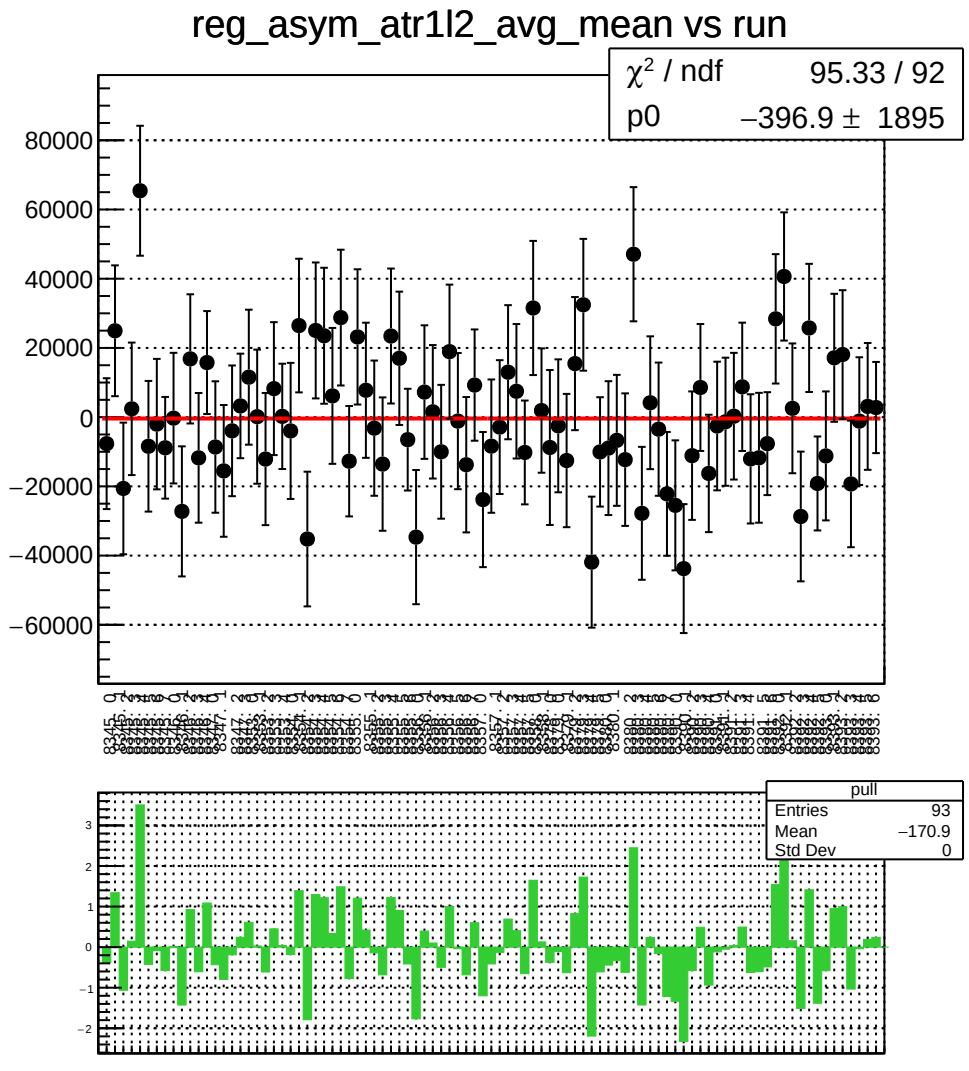

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.01 / 92
p0 −0.1315 ± 0.1592
pull
Entries 93
Mean −302.2
Std Dev 0

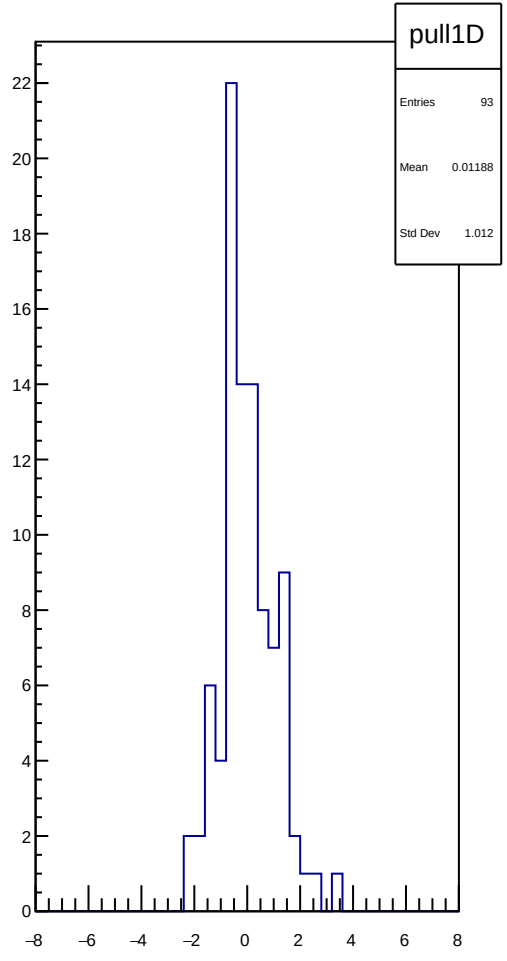

pull1D
Entries 93
Mean 0.002513
Std Dev 0.9892

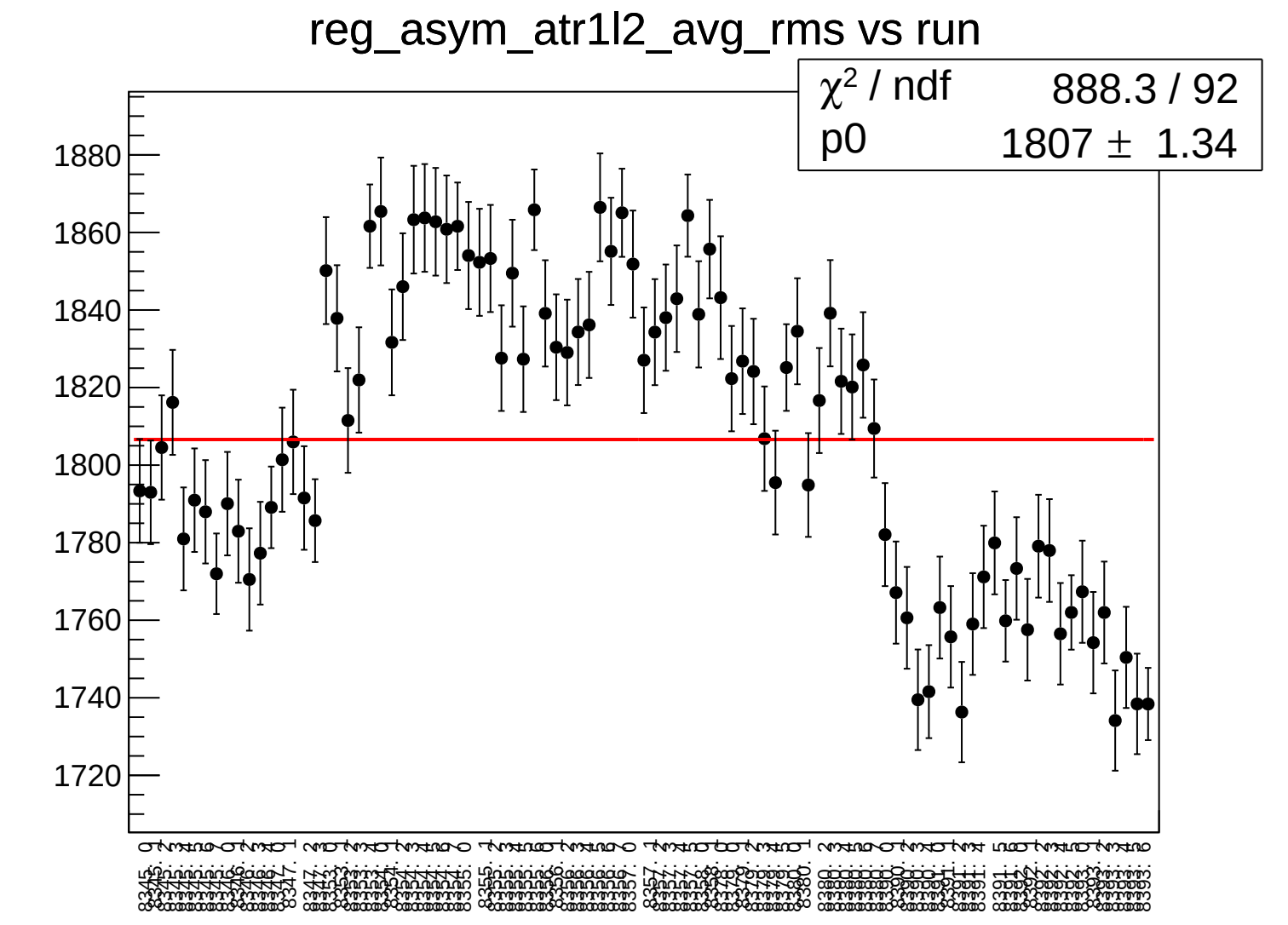

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.173e+04 / 92
p0 149.6 ± 0.1126
260
240
220
200
180
160
140
120
100

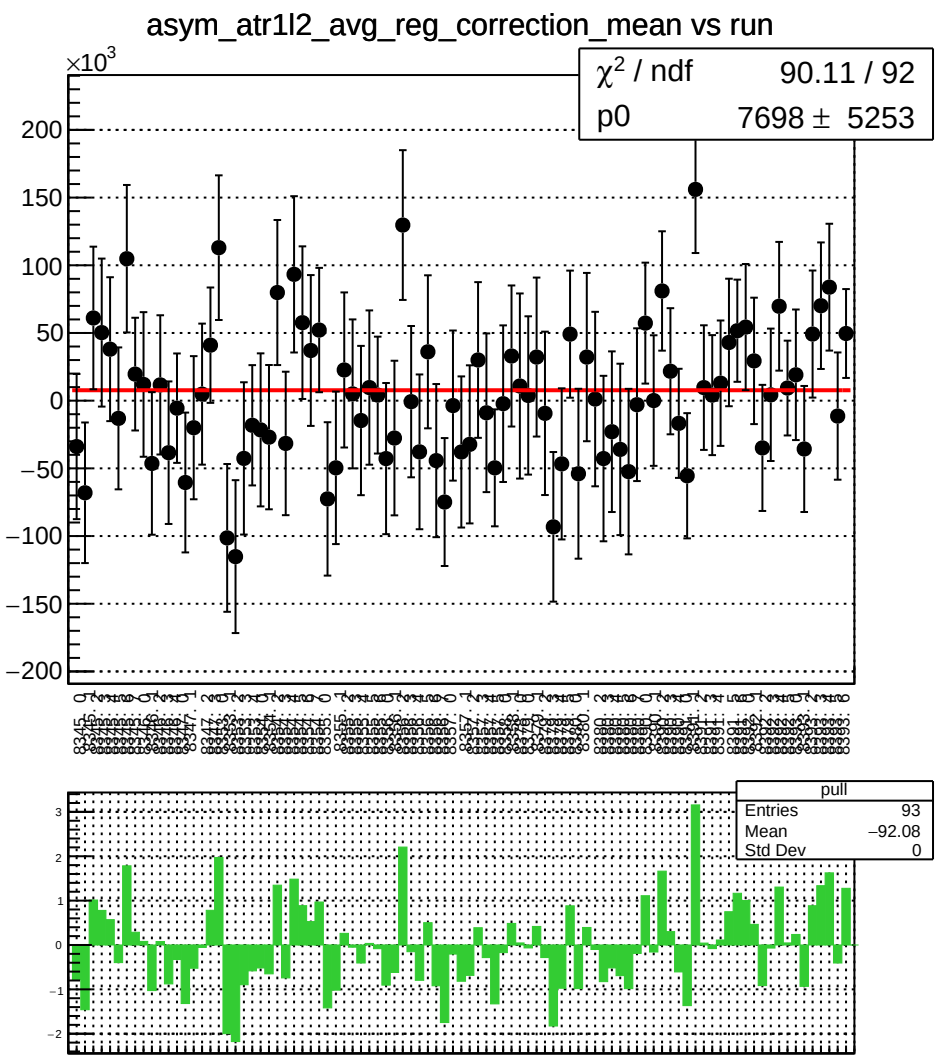

asym_atl1r2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 115.9 / 92
p0 −2.259e−13 ± 3.814e−13
40
20
0
−20
−40
pull
Entries 93
Mean 49.47
Std Dev 8.3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.08377
Std Dev 1.113
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

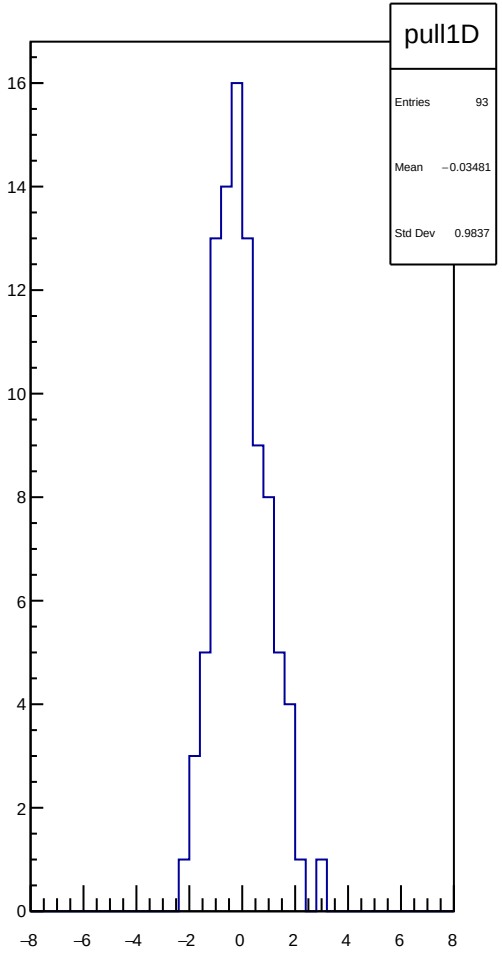

asym_atl1r2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.214e+05 / 92
p0 2.555e−10 ± 2.697e−13
4
3.5
3
2.5
2
1.5
1
0.5

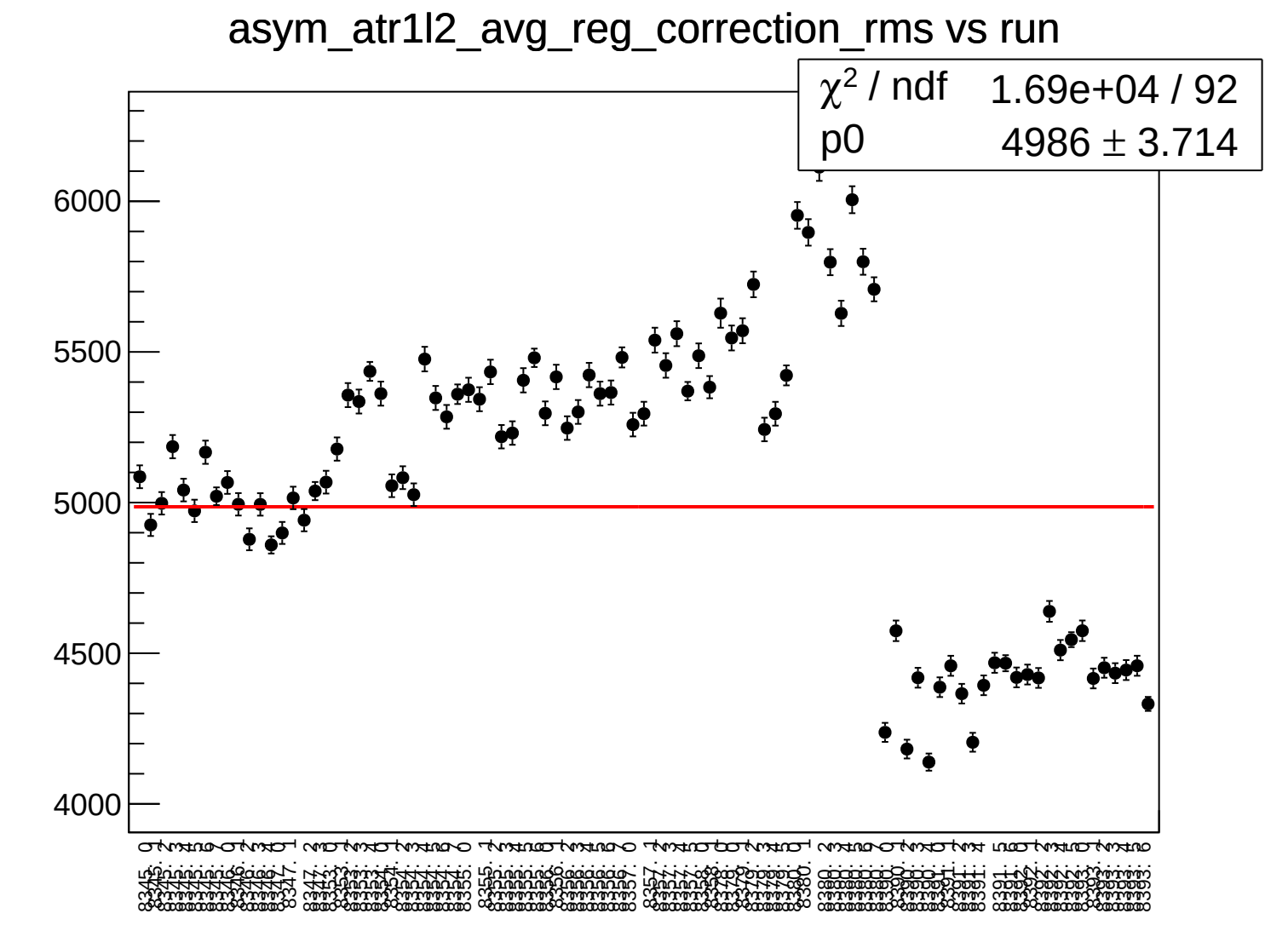

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 95.33 / 92
p0 −396.9 ± 1895
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −170.9
Std Dev 0
3
2
1
0
−1
−2

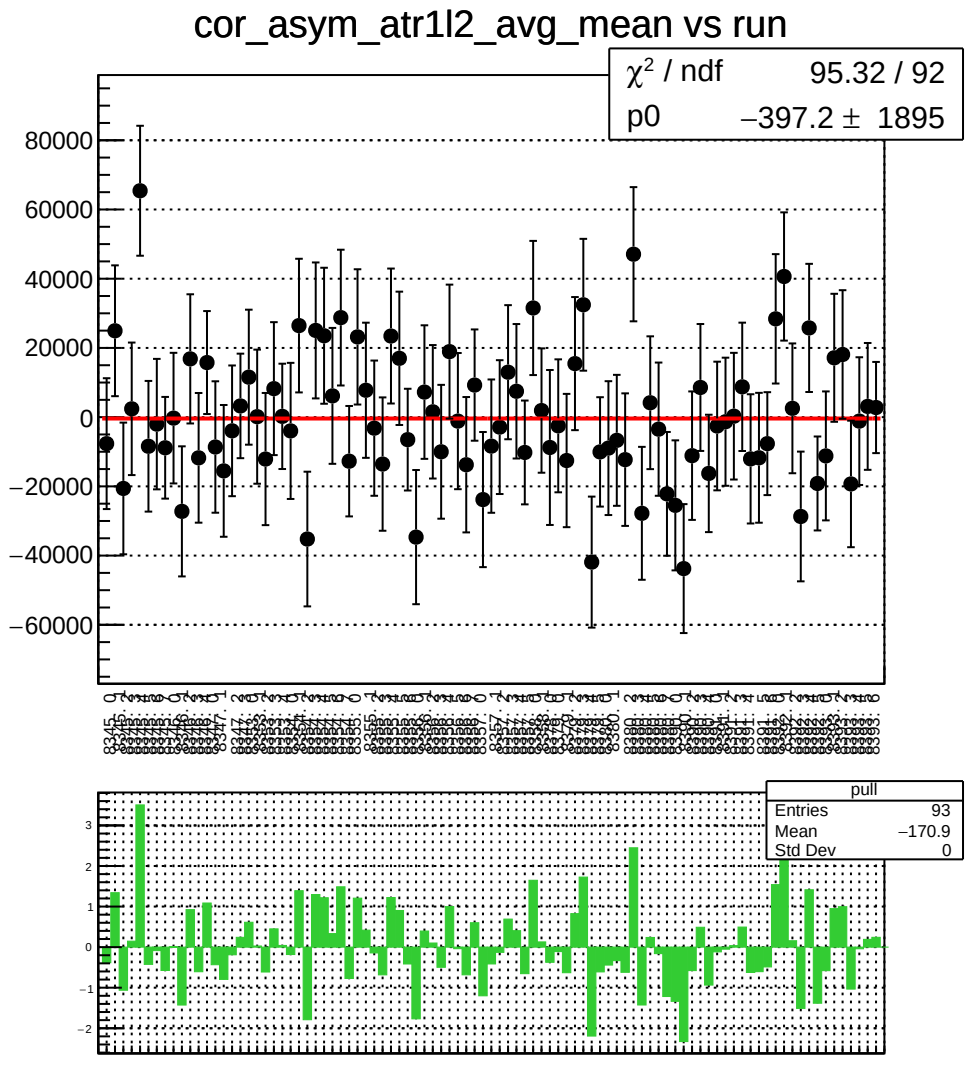

pull1D
Entries 93
Mean 0.01188
Std Dev 1.012
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

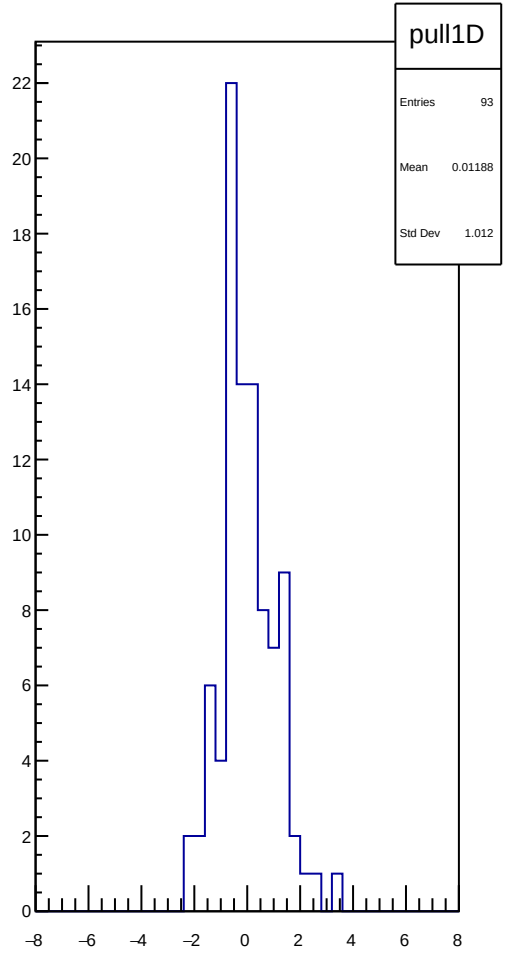

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 888.3 / 92
p0 1807 ± 1.34
1880
1860
1840
1820
1800
1780
1760
1740
1720

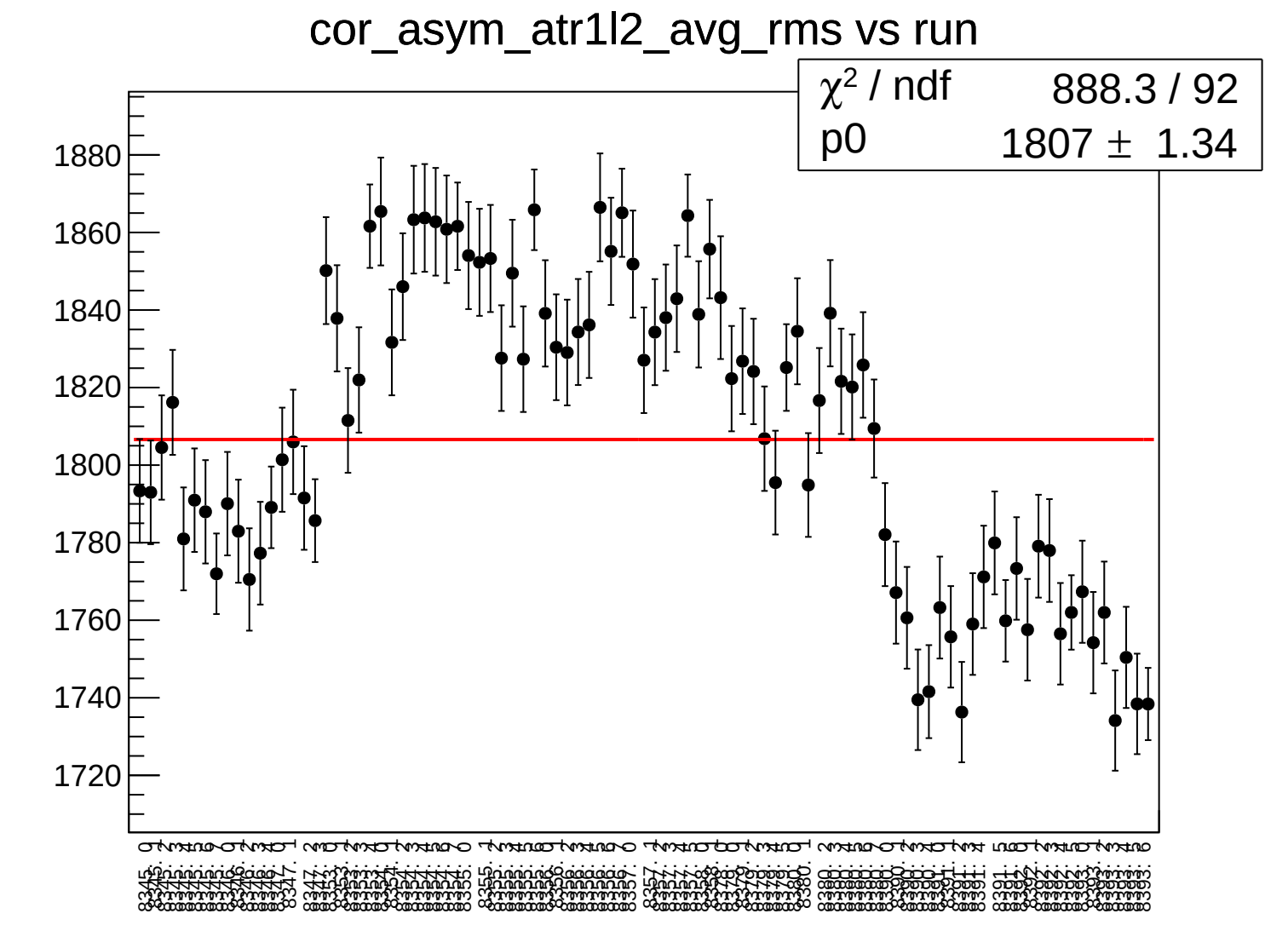

asym_atr1l2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 90.11 / 92
p0 7698 ± 5253
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean −92.08
Std Dev 0
3
2
1
0
−1
−2

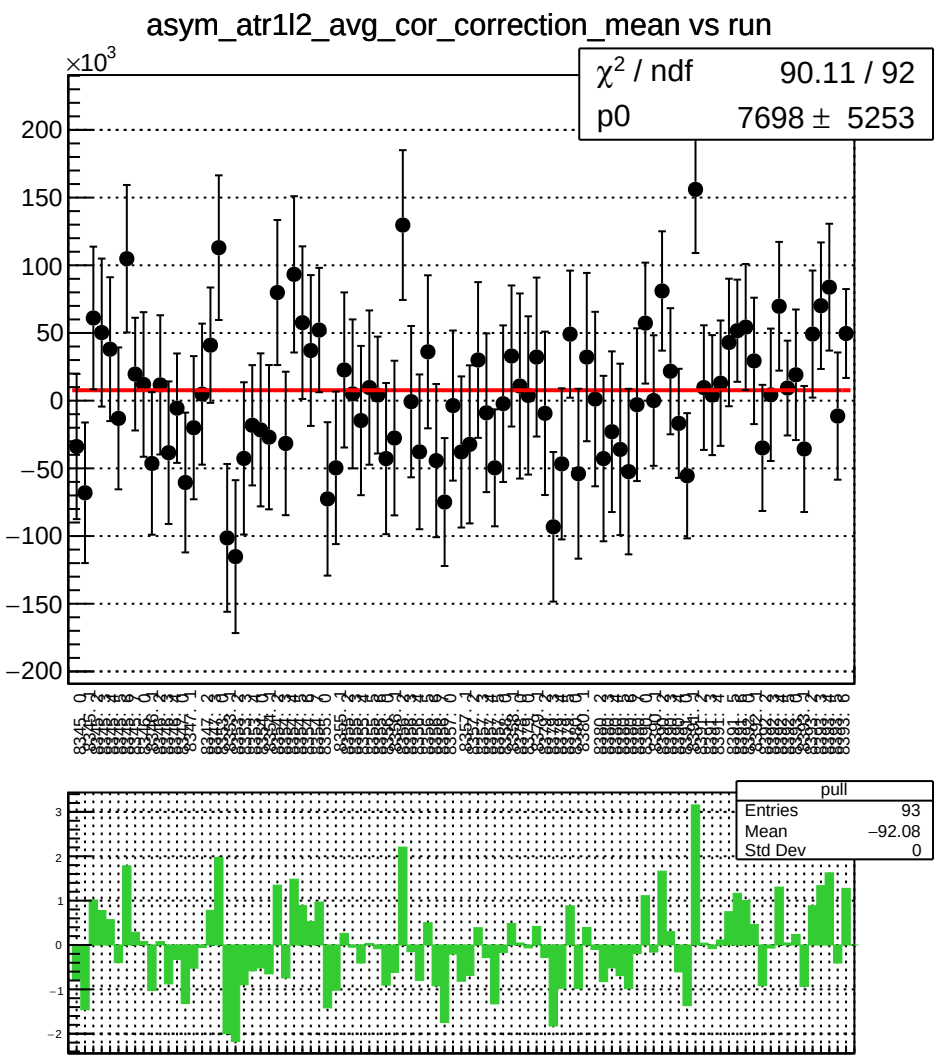

pull1D
Entries 93
Mean −0.03481
Std Dev 0.9837
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

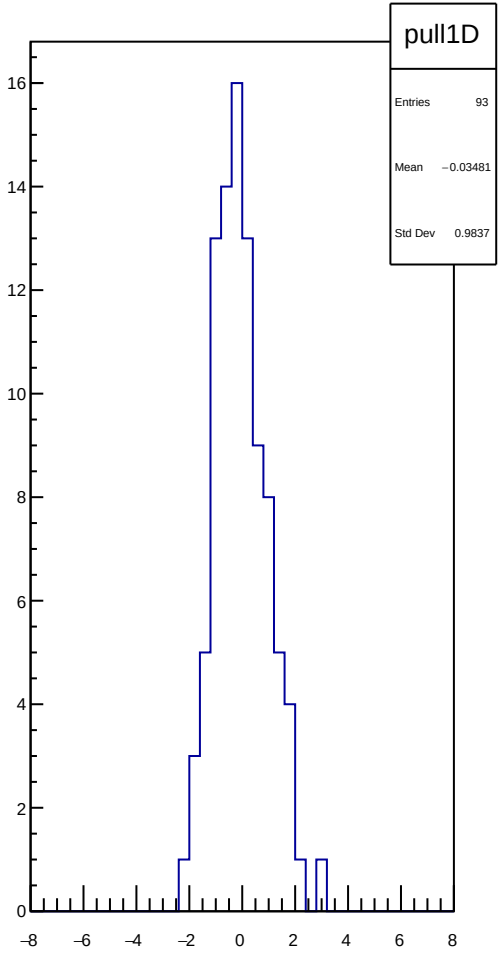

asym_atr1l2_avg_reg_correction_rms vs run
χ² / ndf 1.69e+04 / 92
p0 4986 ± 3.714
6000
5500
5000
4500
4000

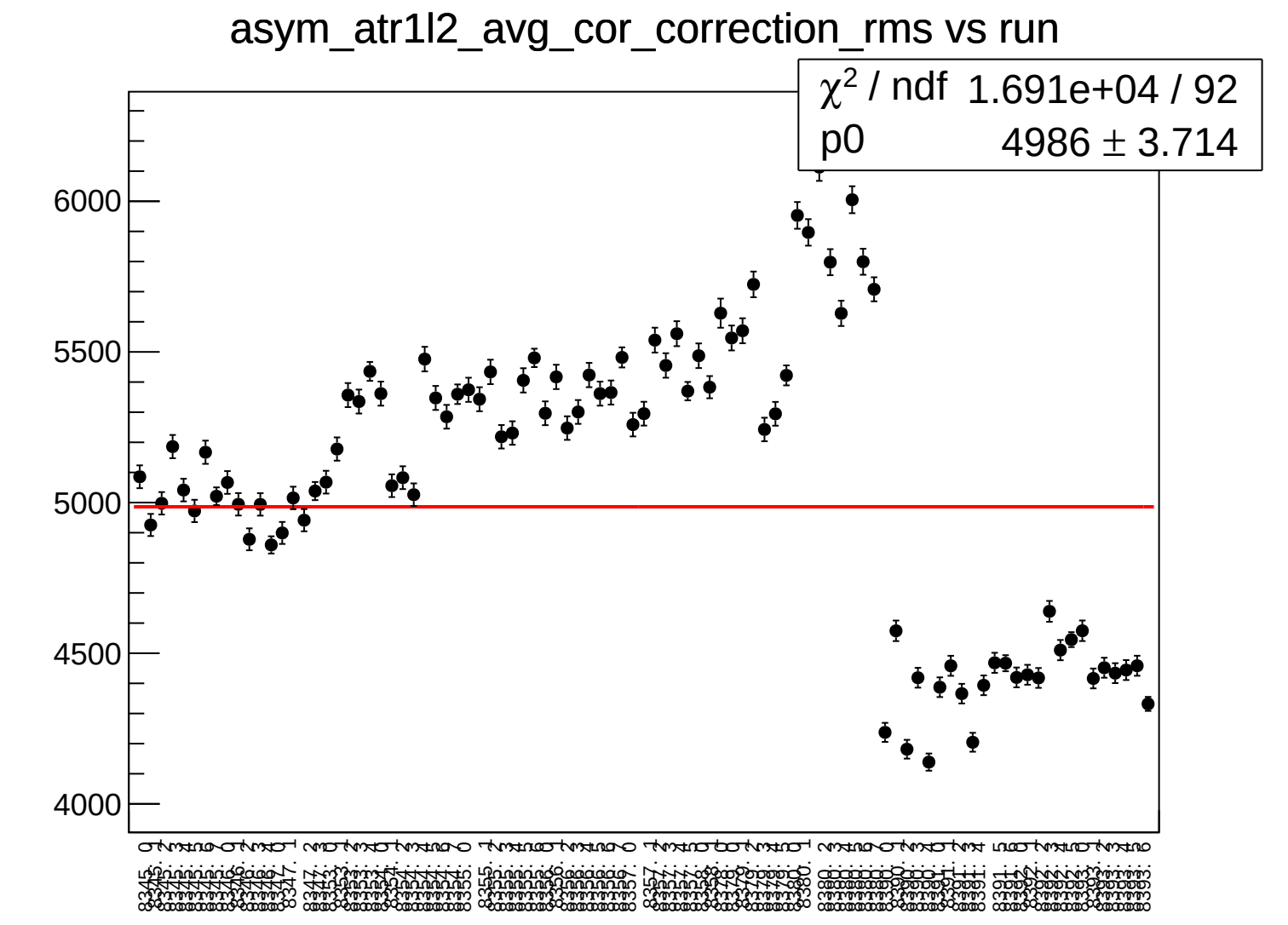

cor_asym_atr1l2_avg_mean vs run
χ² / ndf 95.32 / 92
p0 −397.2 ± 1895
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −170.9
Std Dev 0
3
2
1
0
−1
−2

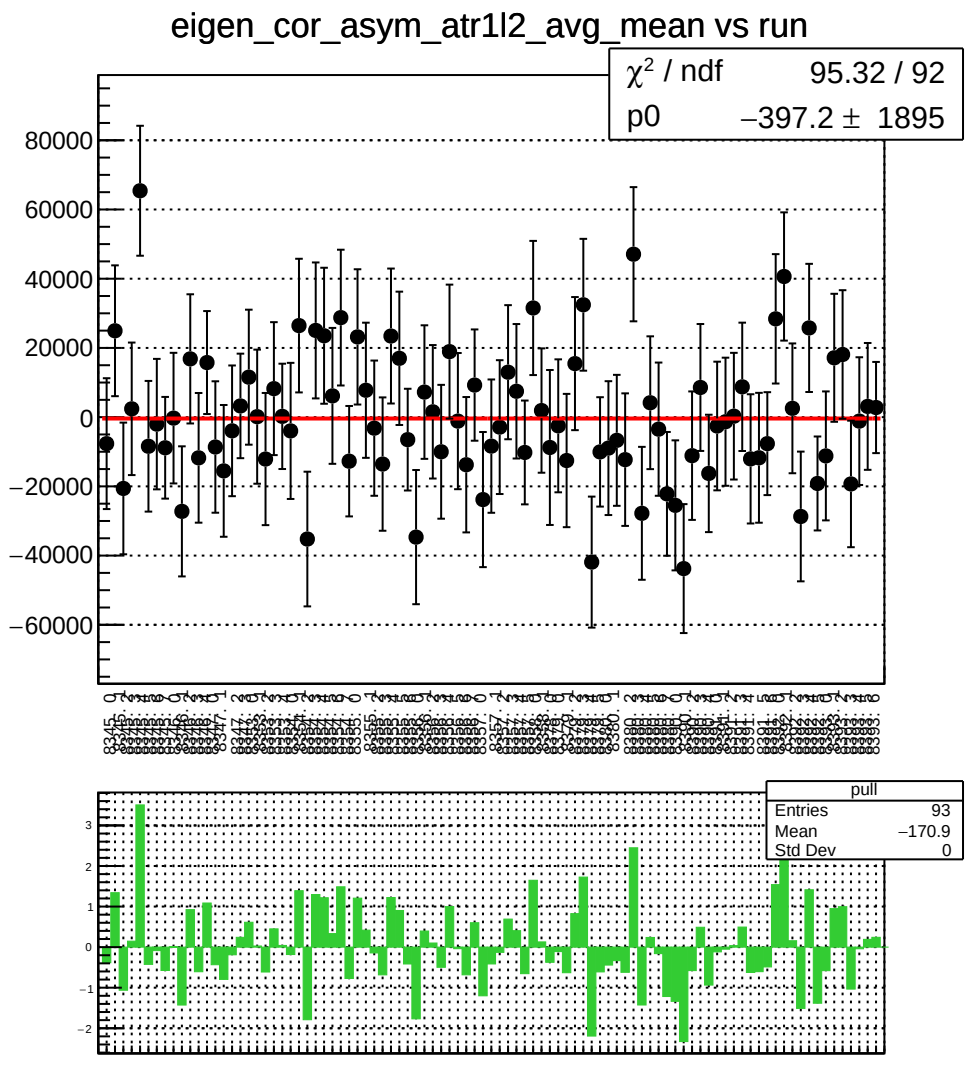

pull1D
Entries 93
Mean 0.01188
Std Dev 1.012
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

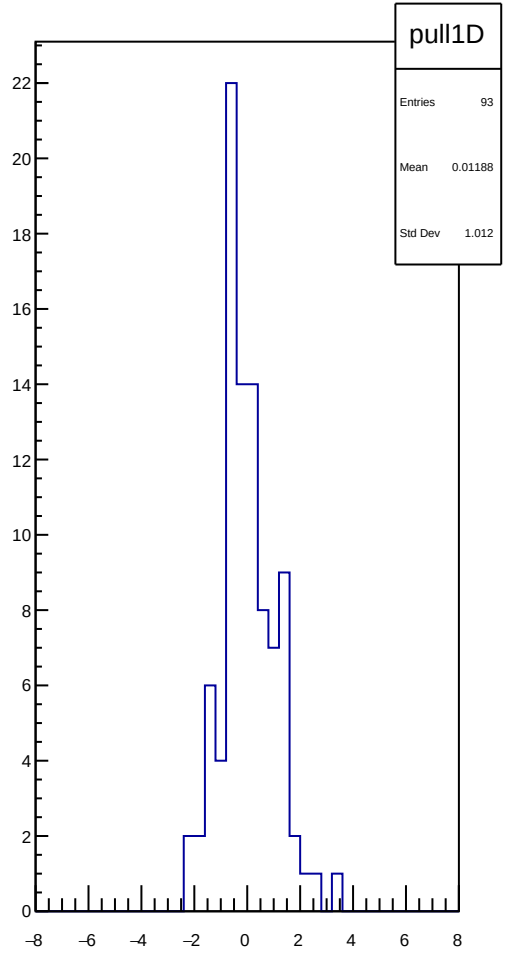

cor_asym_atr1l2_avg_rms vs run
χ² / ndf 888.3 / 92
p0 1807 ± 1.34
1880
1860
1840
1820
1800
1780
1760
1740
1720

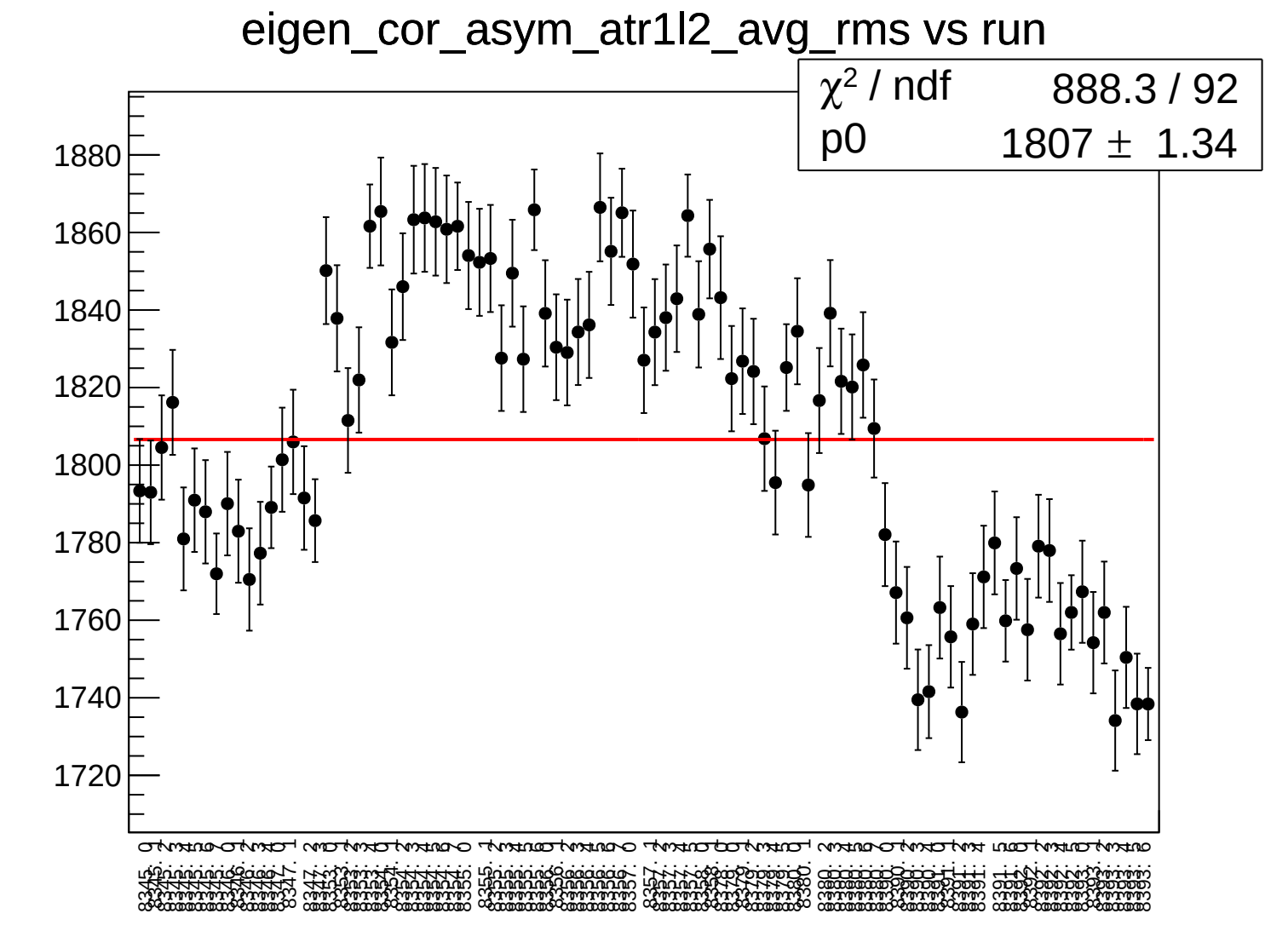

asym_atr1l2_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 90.11 / 92
p0 7698 ± 5253
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean −92.08
Std Dev 0
3
2
1
0
−1
−2

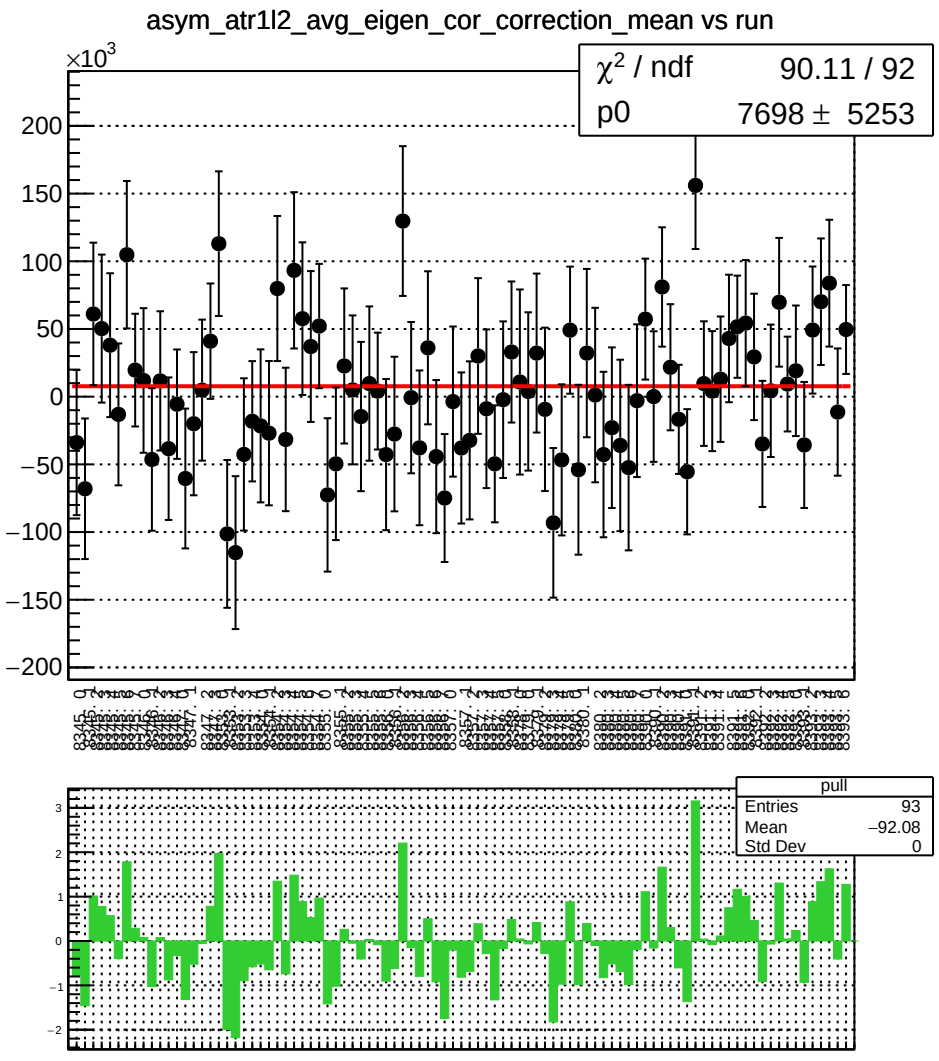

pull1D
Entries 93
Mean −0.03481
Std Dev 0.9837
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

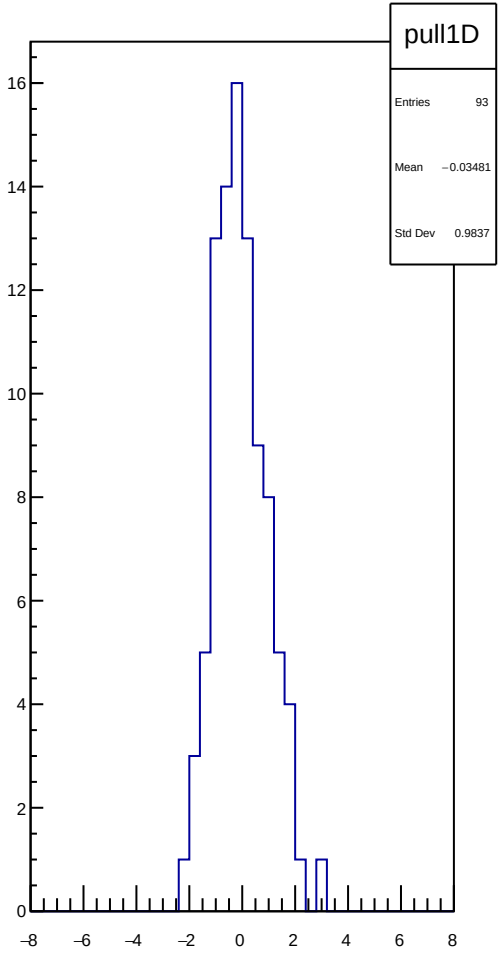

asym_atr1l2_avg_cor_correction_rms vs run
χ² / ndf 1.691e+04 / 92
p0 4986 ± 3.714
6000
5500
5000
4500
4000

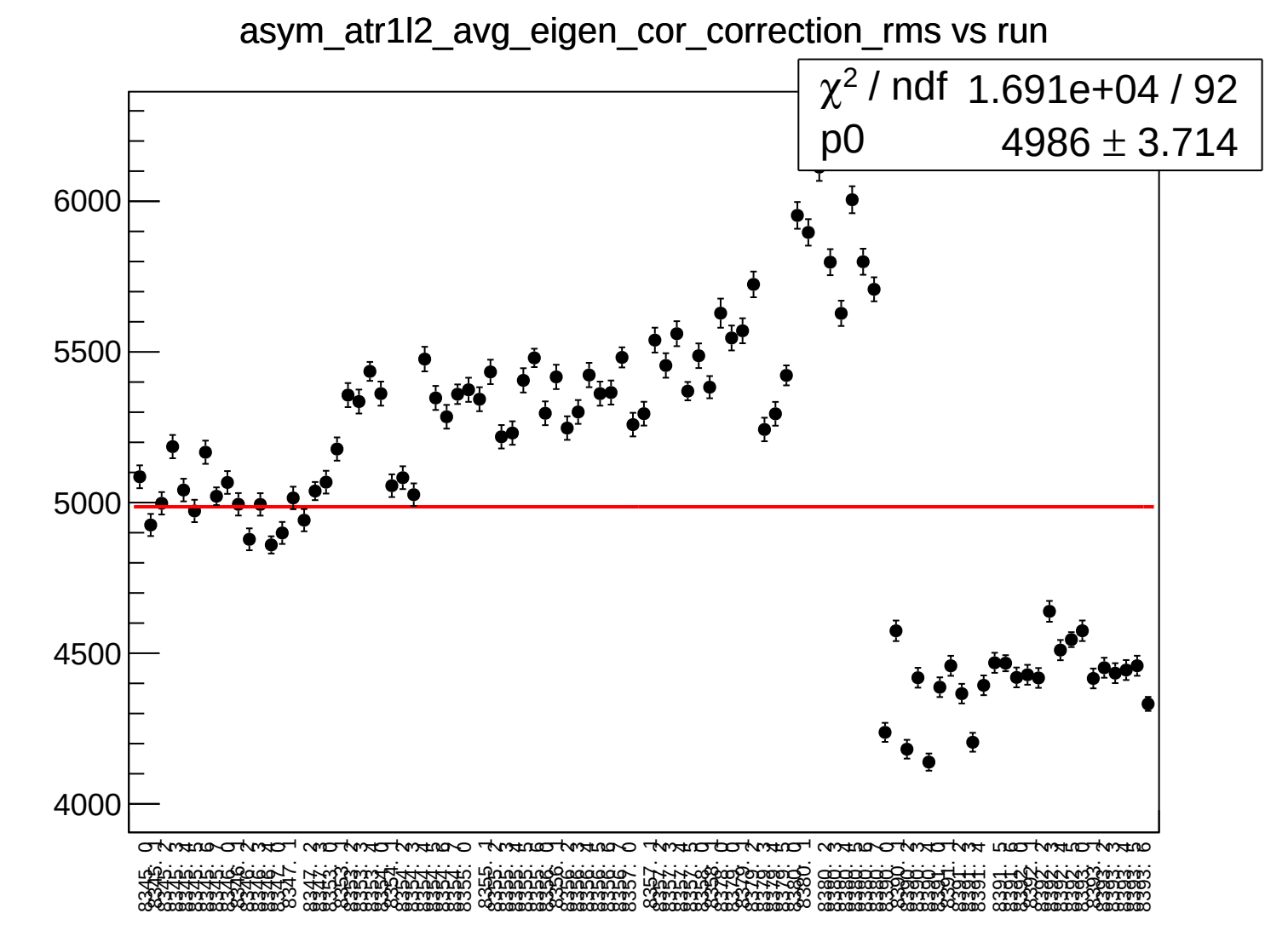

eigen_cor_asym_atr1l2_avg_mean vs run
χ² / ndf 95.32 / 92
p0 −397.2 ± 1895
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −170.9
Std Dev 0
3
2
1
0
−1
−2

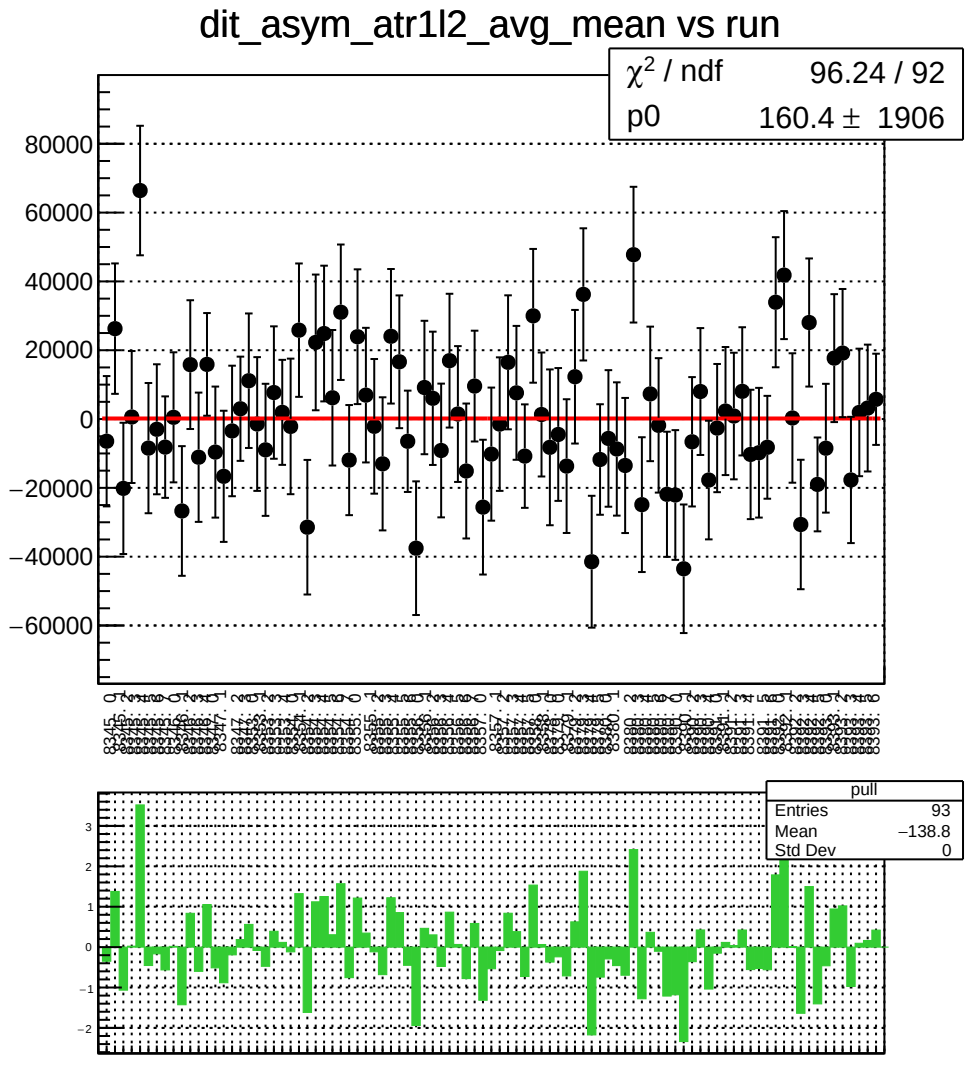

pull1D
Entries 93
Mean 0.01188
Std Dev 1.012
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

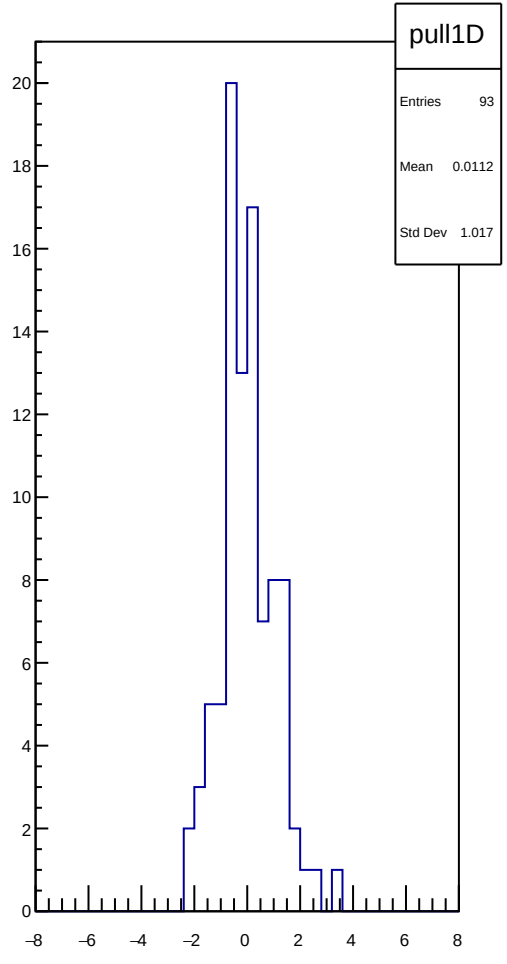

eigen_cor_asym_atr1l2_avg_rms vs run
χ² / ndf 888.3 / 92
p0 1807 ± 1.34
1880
1860
1840
1820
1800
1780
1760
1740
1720

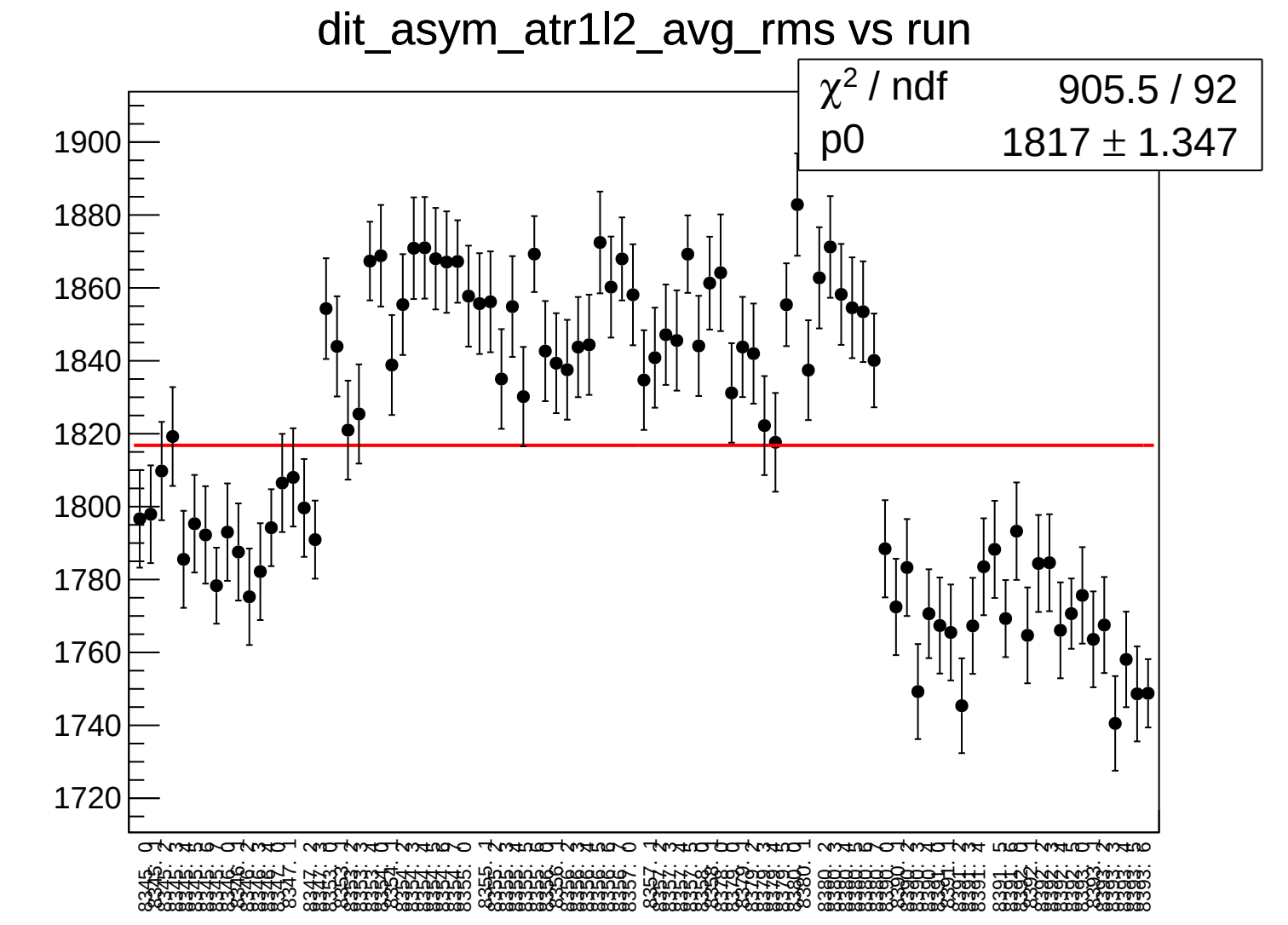

asym_atr1l2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 90.11 / 92
p0 7698 ± 5253
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean −92.08
Std Dev 0
3
2
1
0
−1
−2

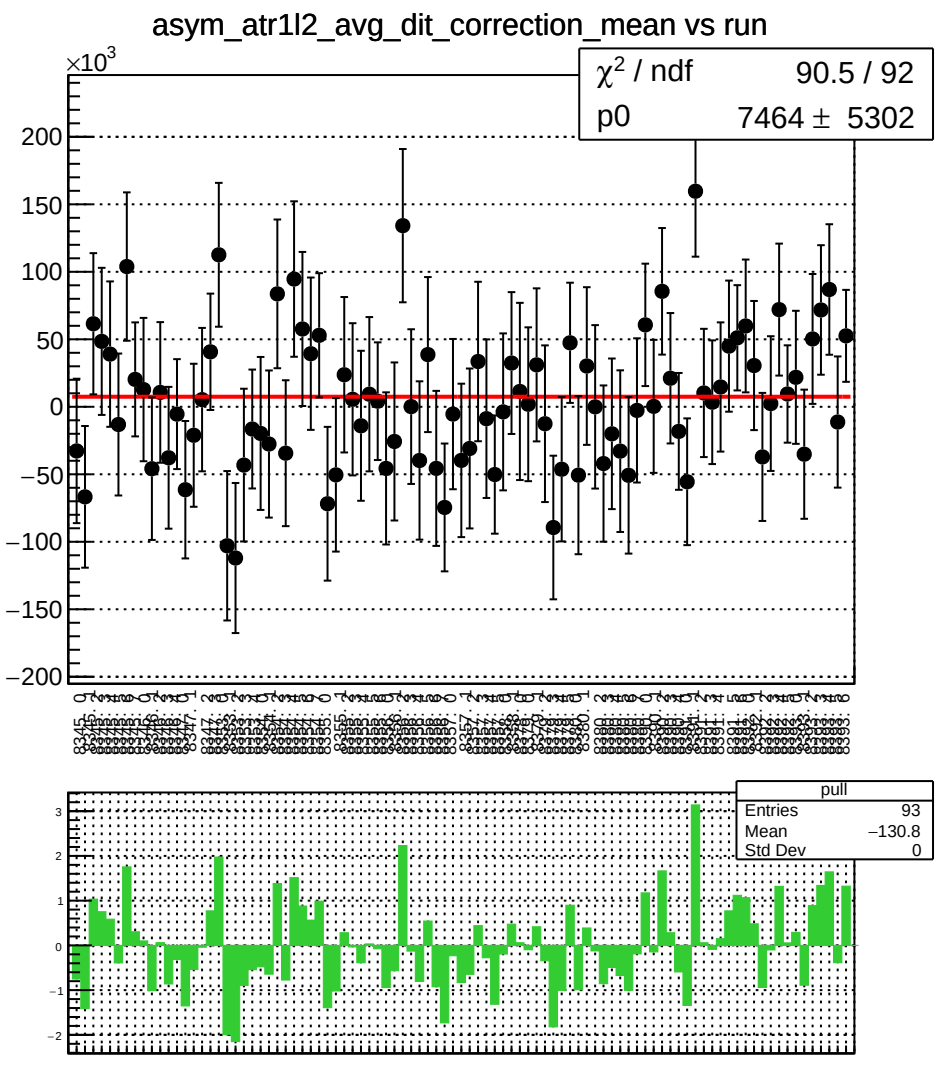

pull1D
Entries 93
Mean −0.03481
Std Dev 0.9837
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

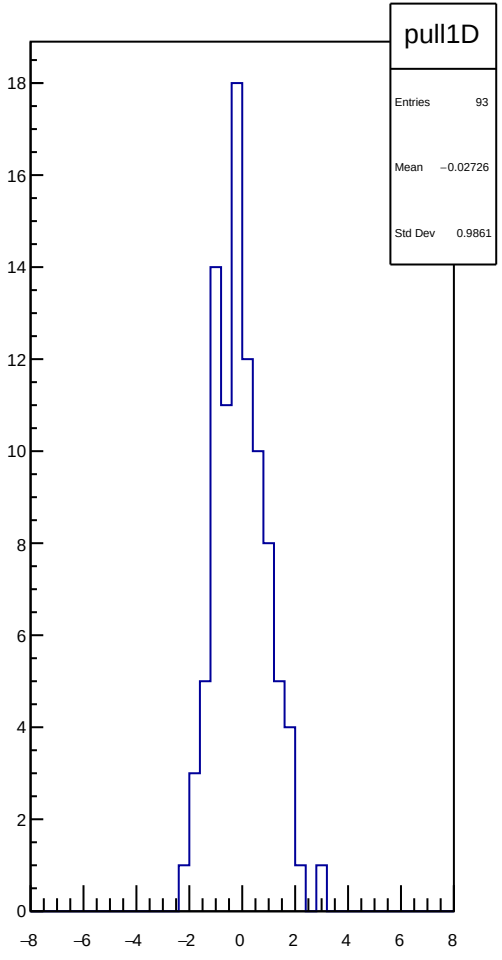

asym_atr1l2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.691e+04 / 92
p0 4986 ± 3.714
6000
5500
5000
4500
4000

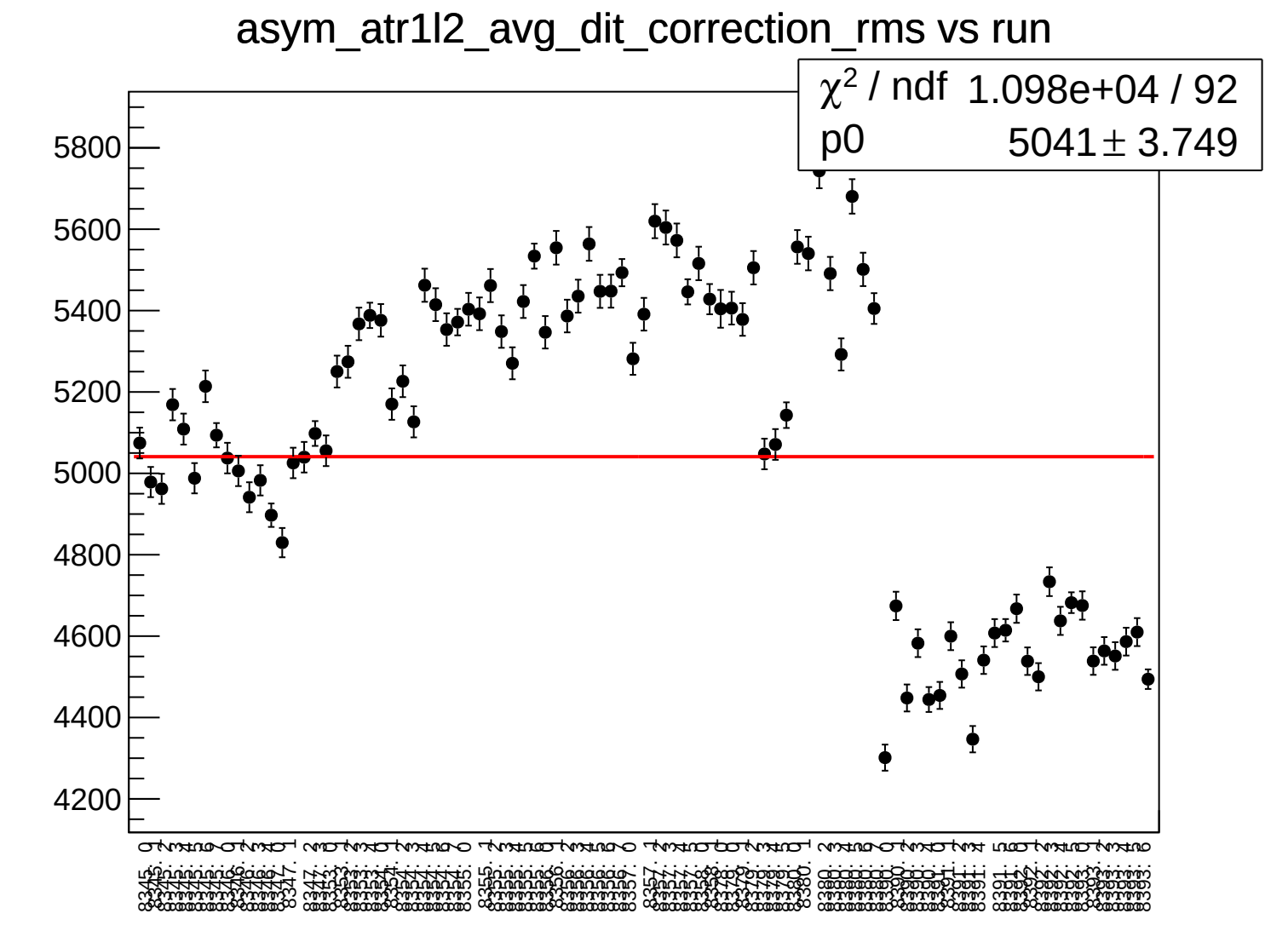

dit_asym_atr1l2_avg_mean vs run
χ² / ndf 96.24 / 92
p0 160.4 ± 1906
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −138.8
Std Dev 0
3
2
1
0
−1
−2

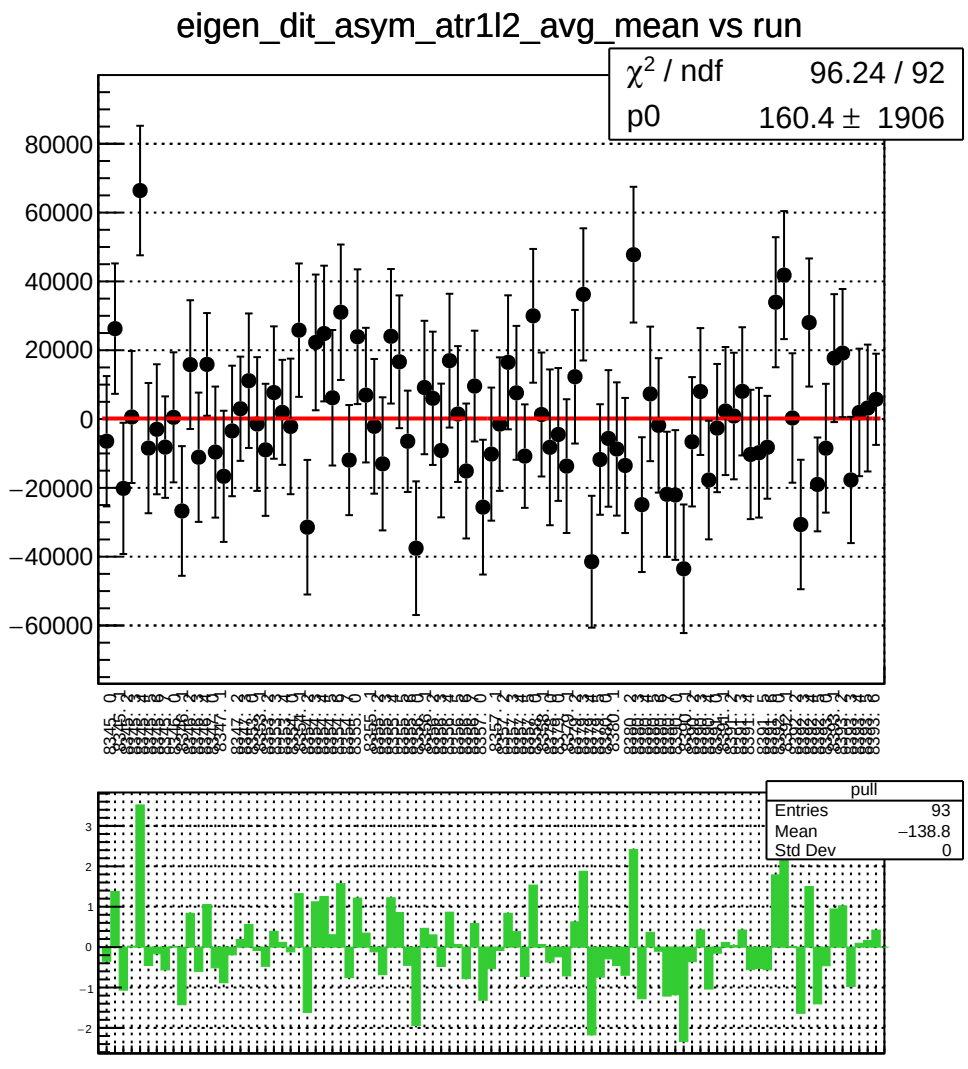

pull1D
Entries 93
Mean 0.0112
Std Dev 1.017
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

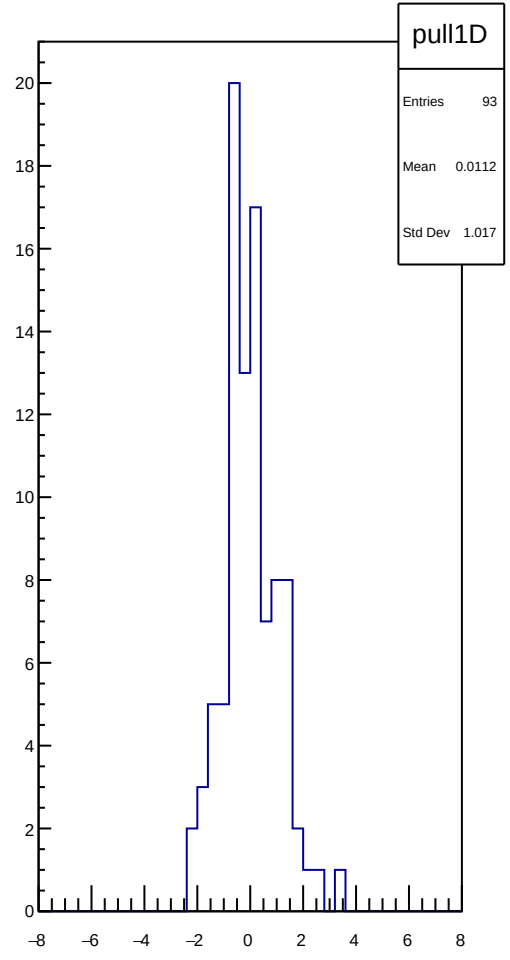

dit_asym_atr1l2_avg_rms vs run
χ² / ndf 905.5 / 92
p0 1817 ± 1.347
1900
1880
1860
1840
1820
1800
1780
1760
1740
1720

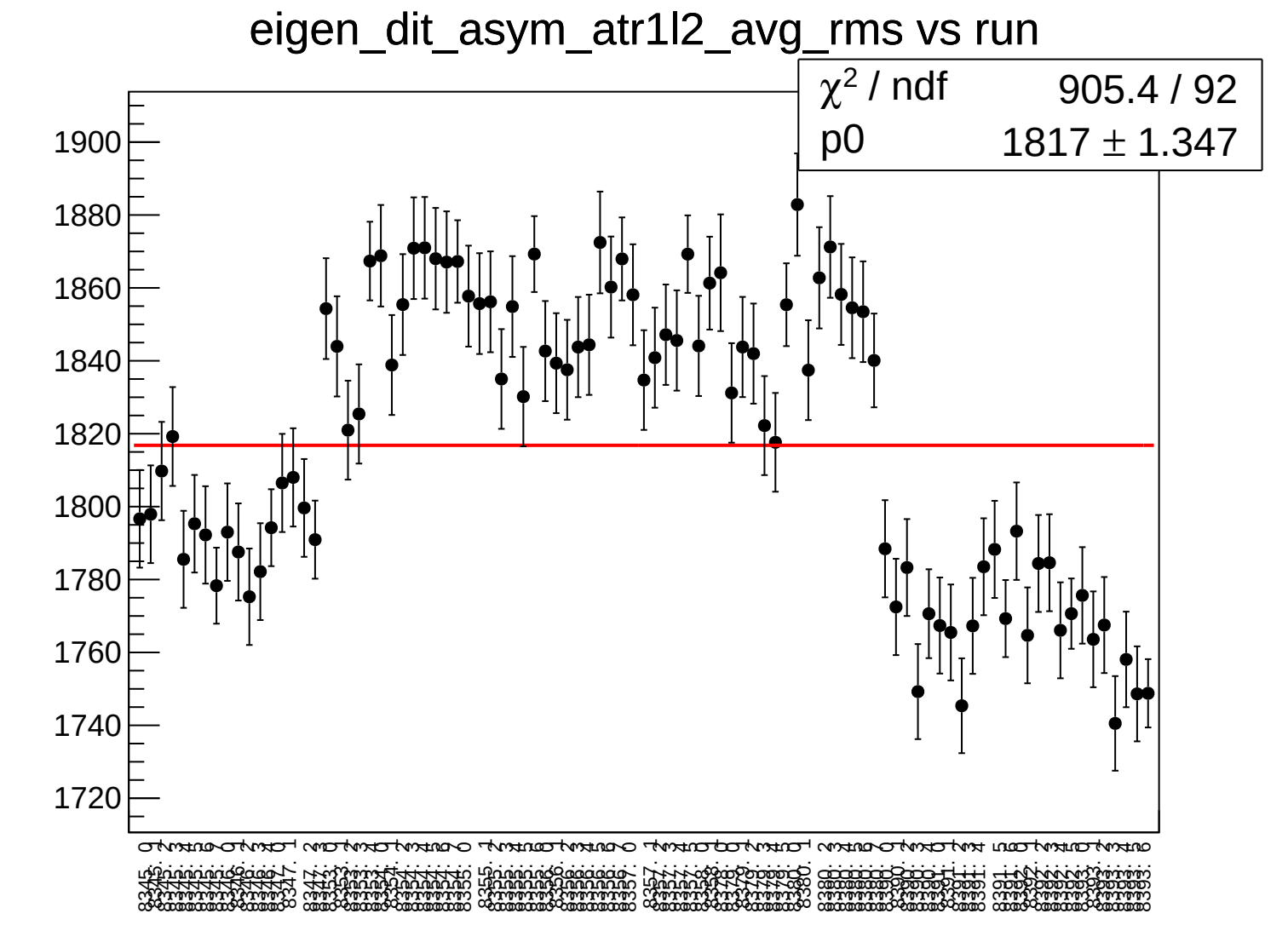

asym_atr1l2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 90.5 / 92
p0 7464 ± 5302
pull
Entries 93
Mean −130.8
Std Dev 0

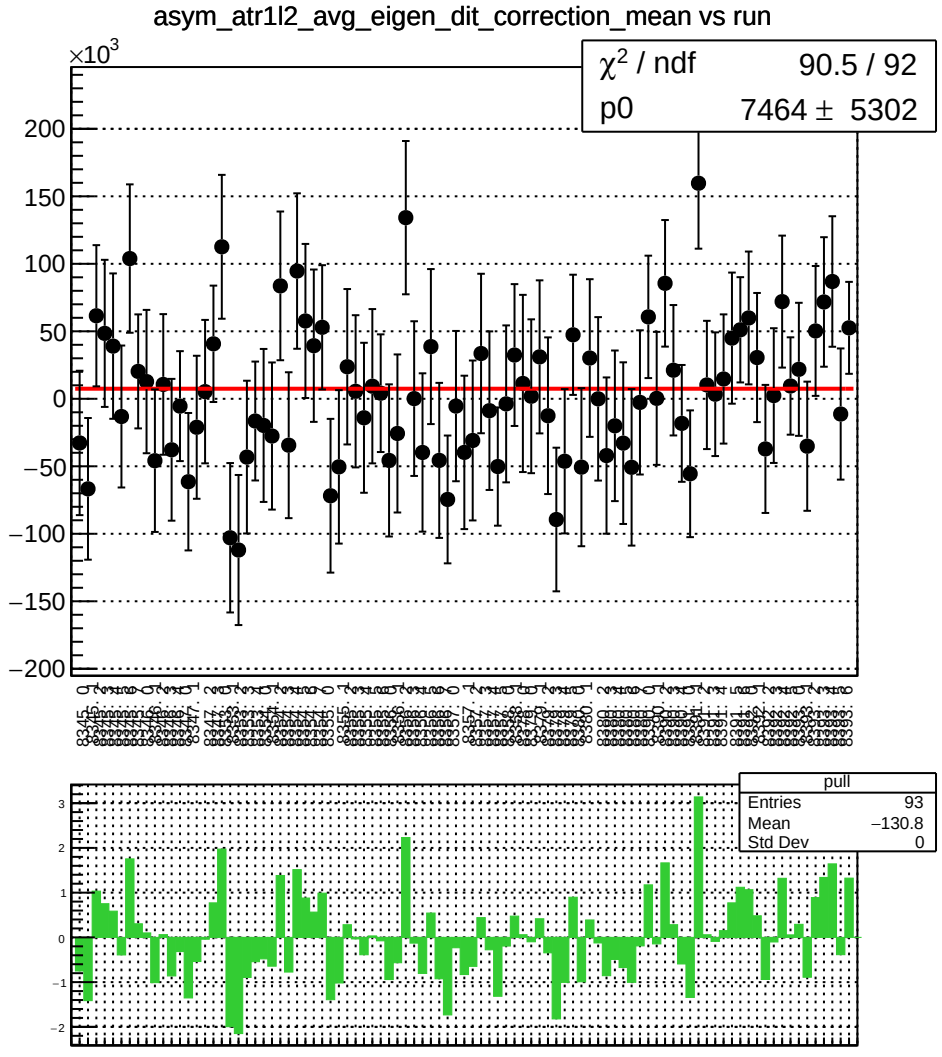

pull1D
Entries 93
Mean −0.02726
Std Dev 0.9861

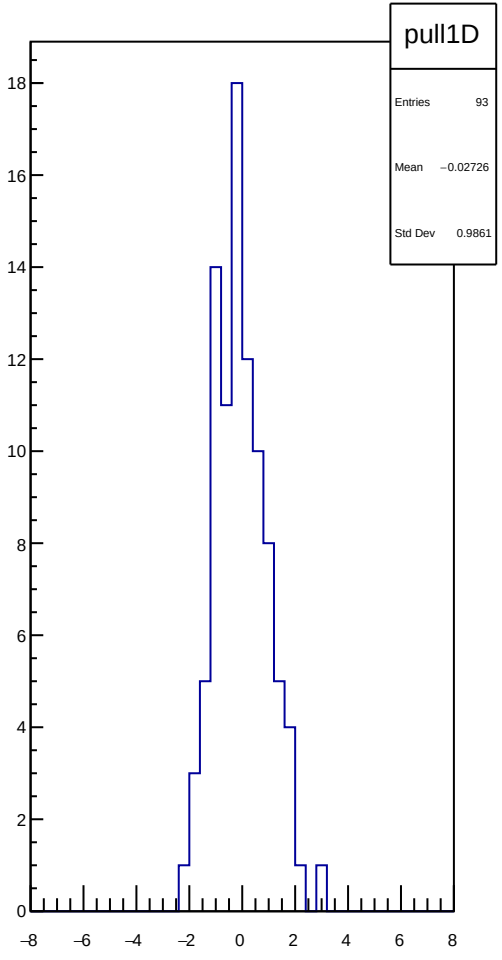

asym_atr1l2_avg_dit_correction_rms vs run
χ² / ndf 1.098e+04 / 92
p0 5041 ± 3.749
5800
5600
5400
5200
5000
4800
4600
4400
4200

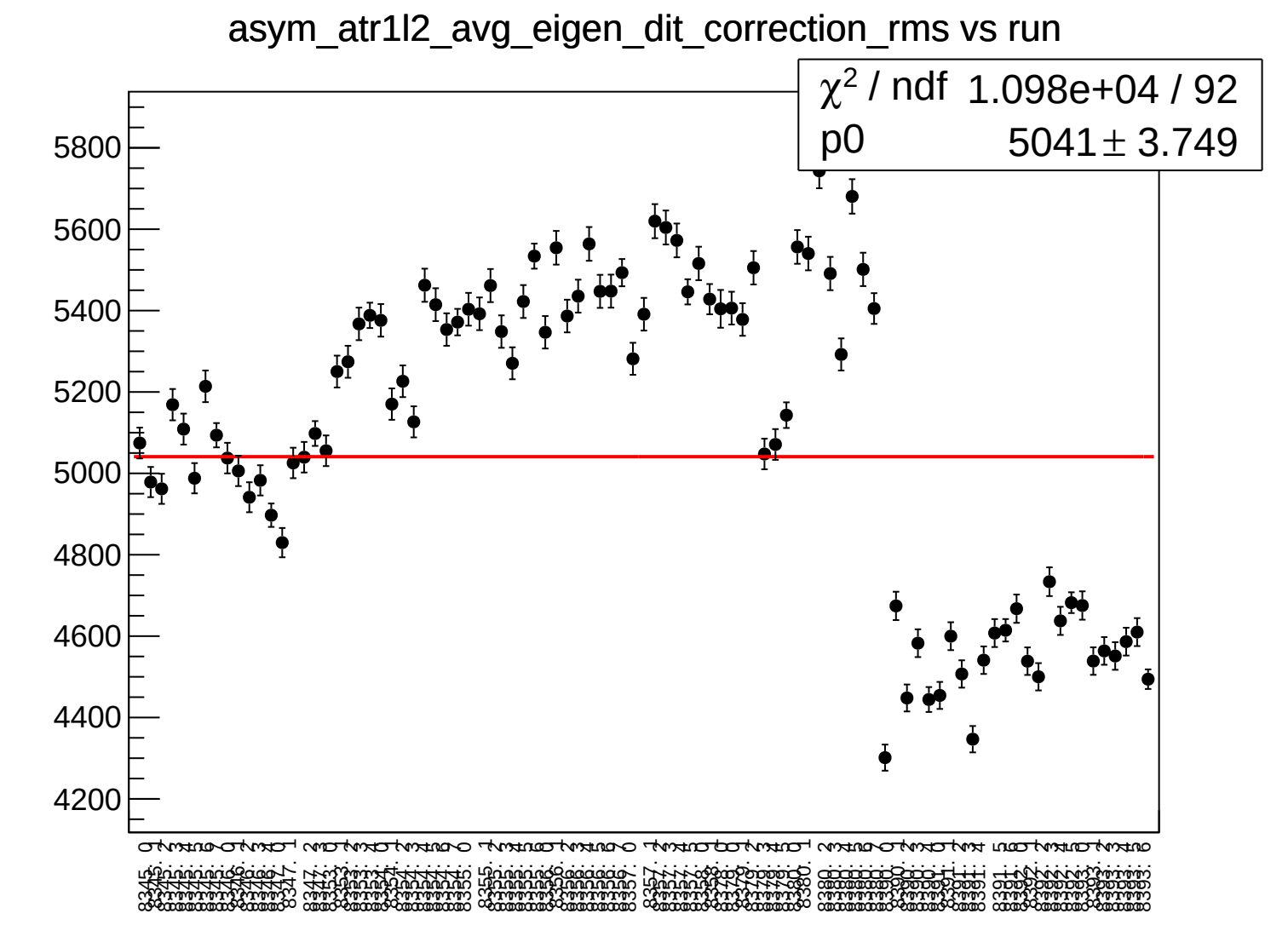

eigen_dit_asym_atr1l2_avg_mean vs run
χ² / ndf 96.24 / 92
p0 160.4 ± 1906
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −138.8
Std Dev 0
3
2
1
0
−1
−2

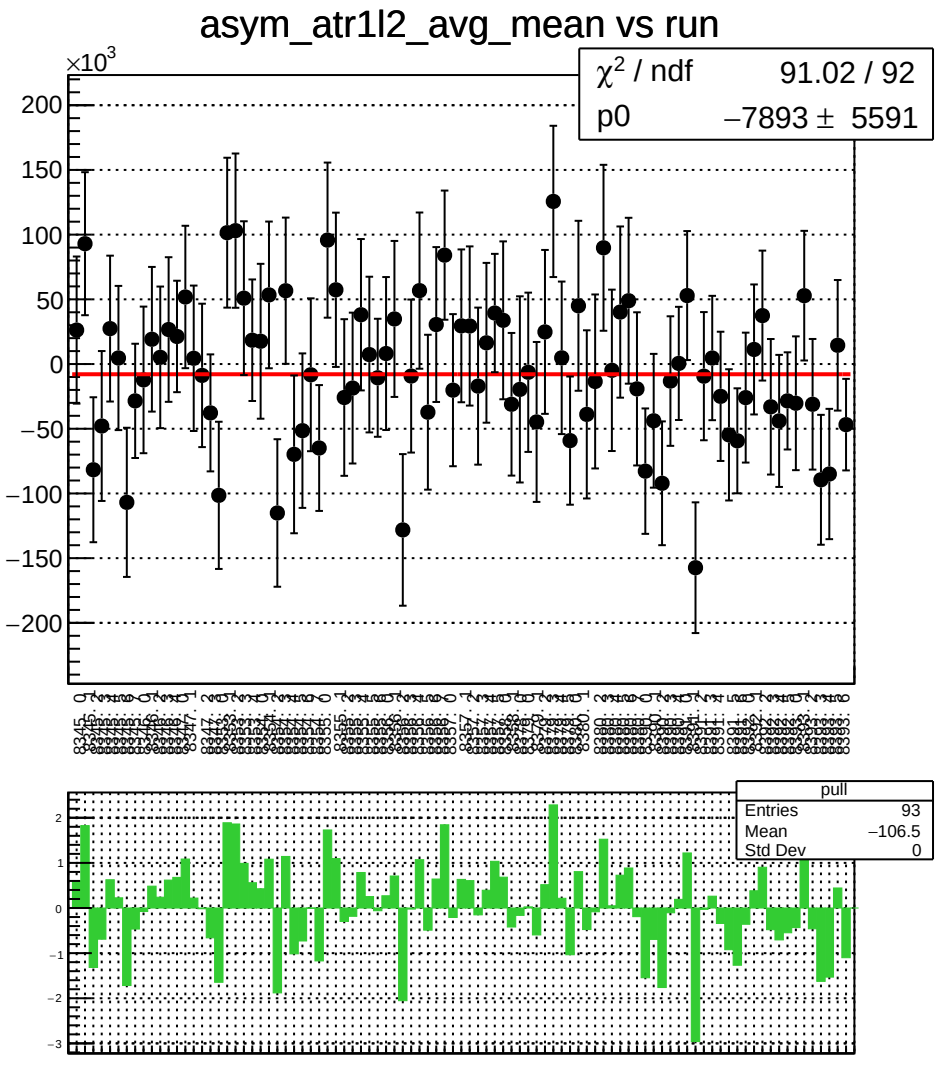

pull1D
Entries 93
Mean 0.0112
Std Dev 1.017
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

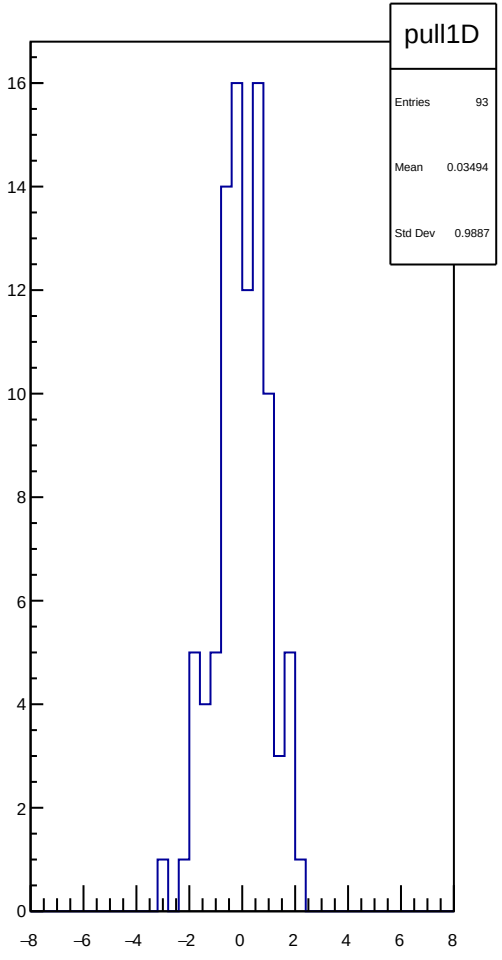

eigen_dit_asym_atr1l2_avg_rms vs run
χ² / ndf 905.4 / 92
p0 1817 ± 1.347
1900
1880
1860
1840
1820
1800
1780
1760
1740
1720

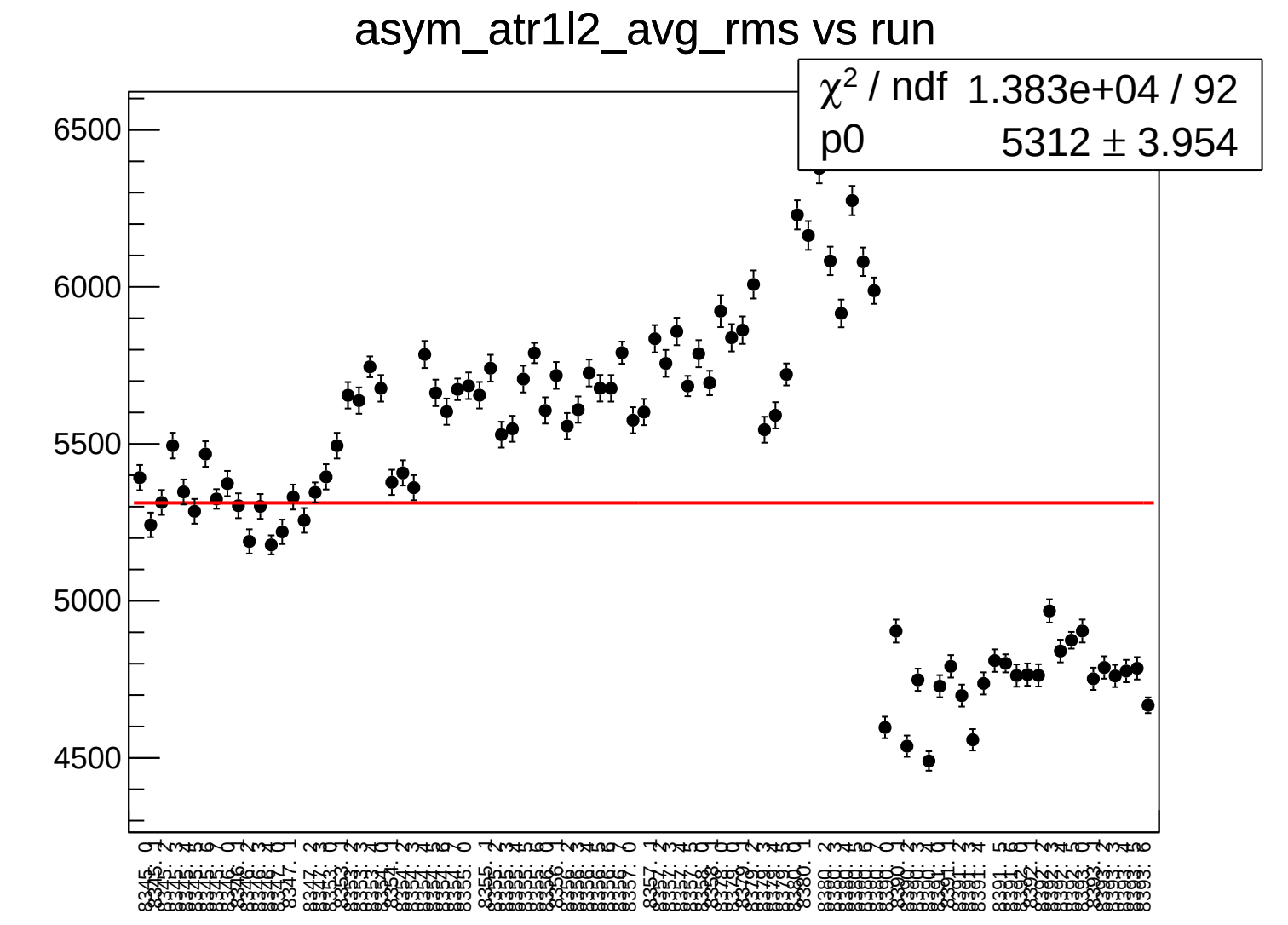

asym_atr1l2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 90.5 / 92
p0 7464 ± 5302
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean −130.8
Std Dev 0
3
2
1
0
−1
−2

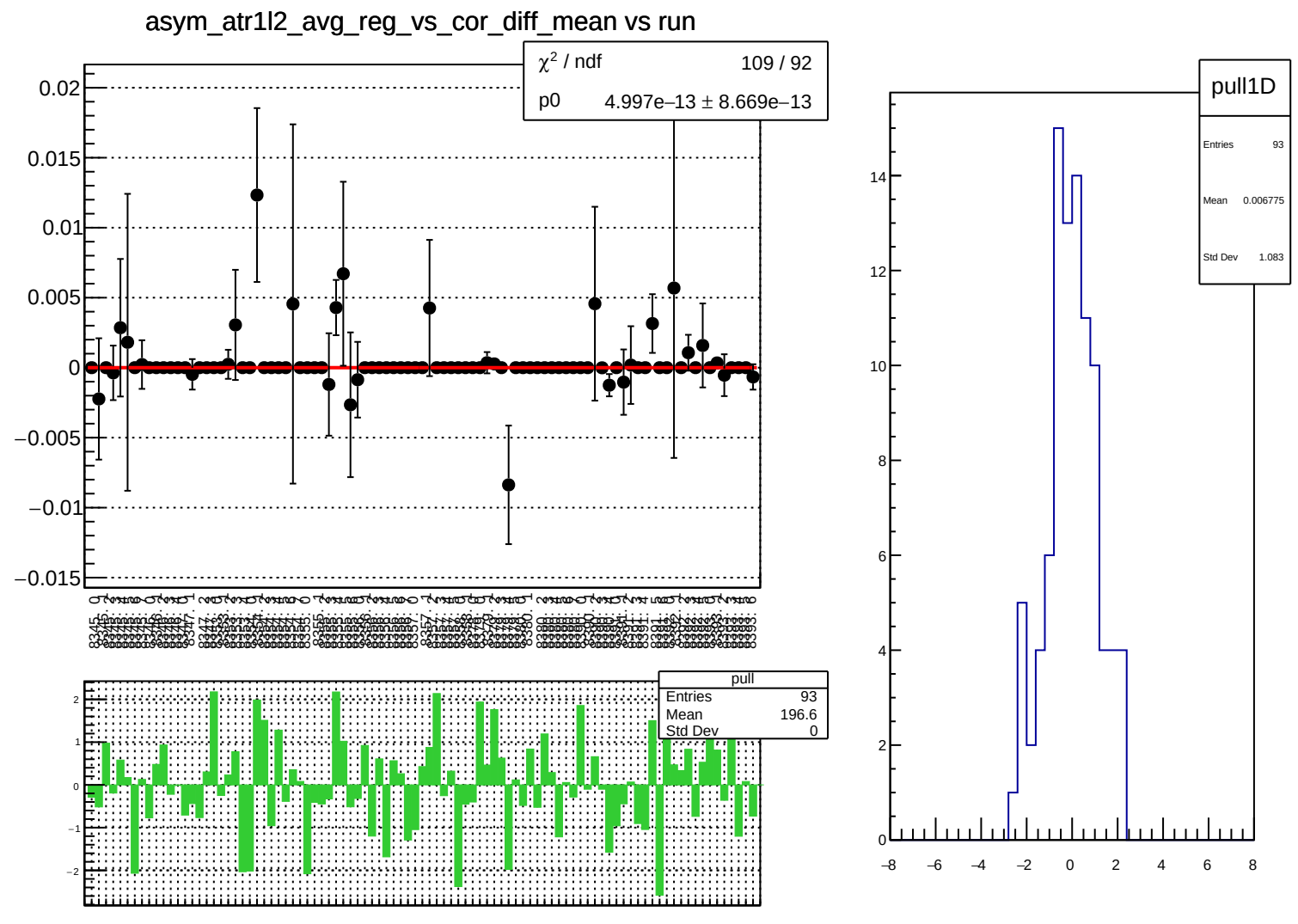

pull1D
Entries 93
Mean −0.02726
Std Dev 0.9861
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

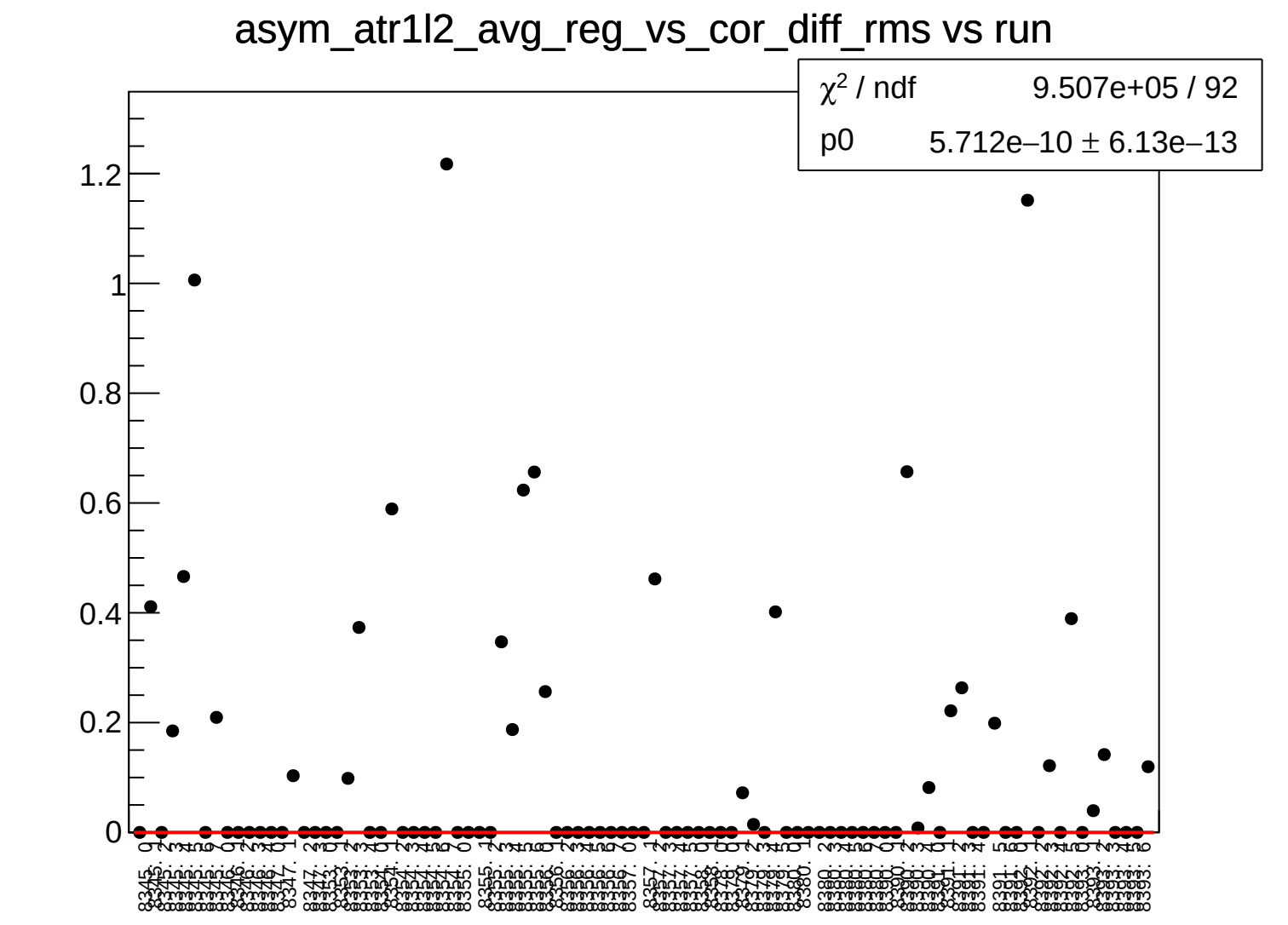

asym_atr1l2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.098e+04 / 92
p0 5041 ± 3.749
5800
5600
5400
5200
5000
4800
4600
4400
4200

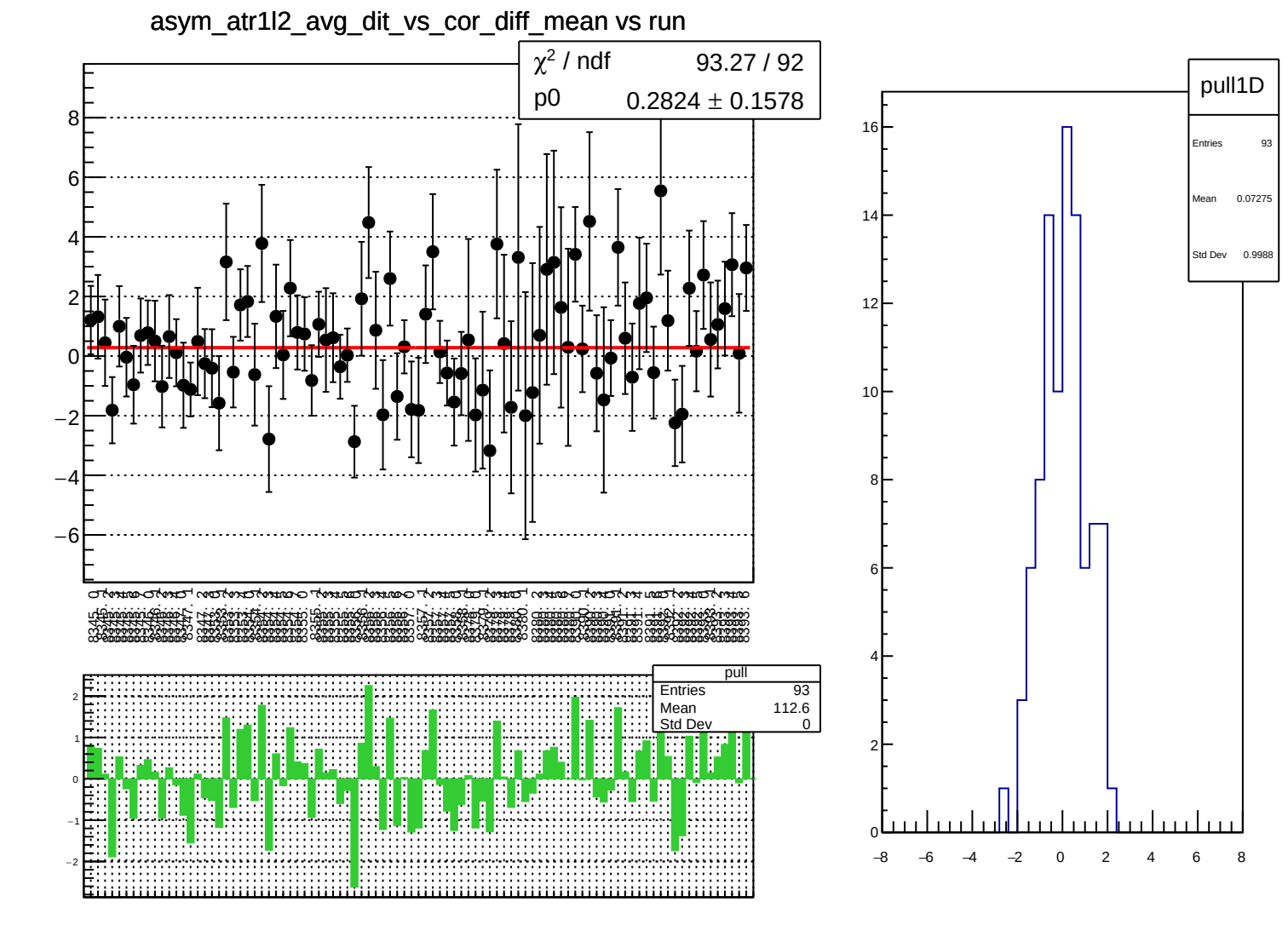

asym_atr1l2_avg_mean vs run
×10^3
χ^2 / ndf 91.02 / 92
p0 −7893 ± 5591
pull
Entries 93
Mean −106.5
Std Dev 0

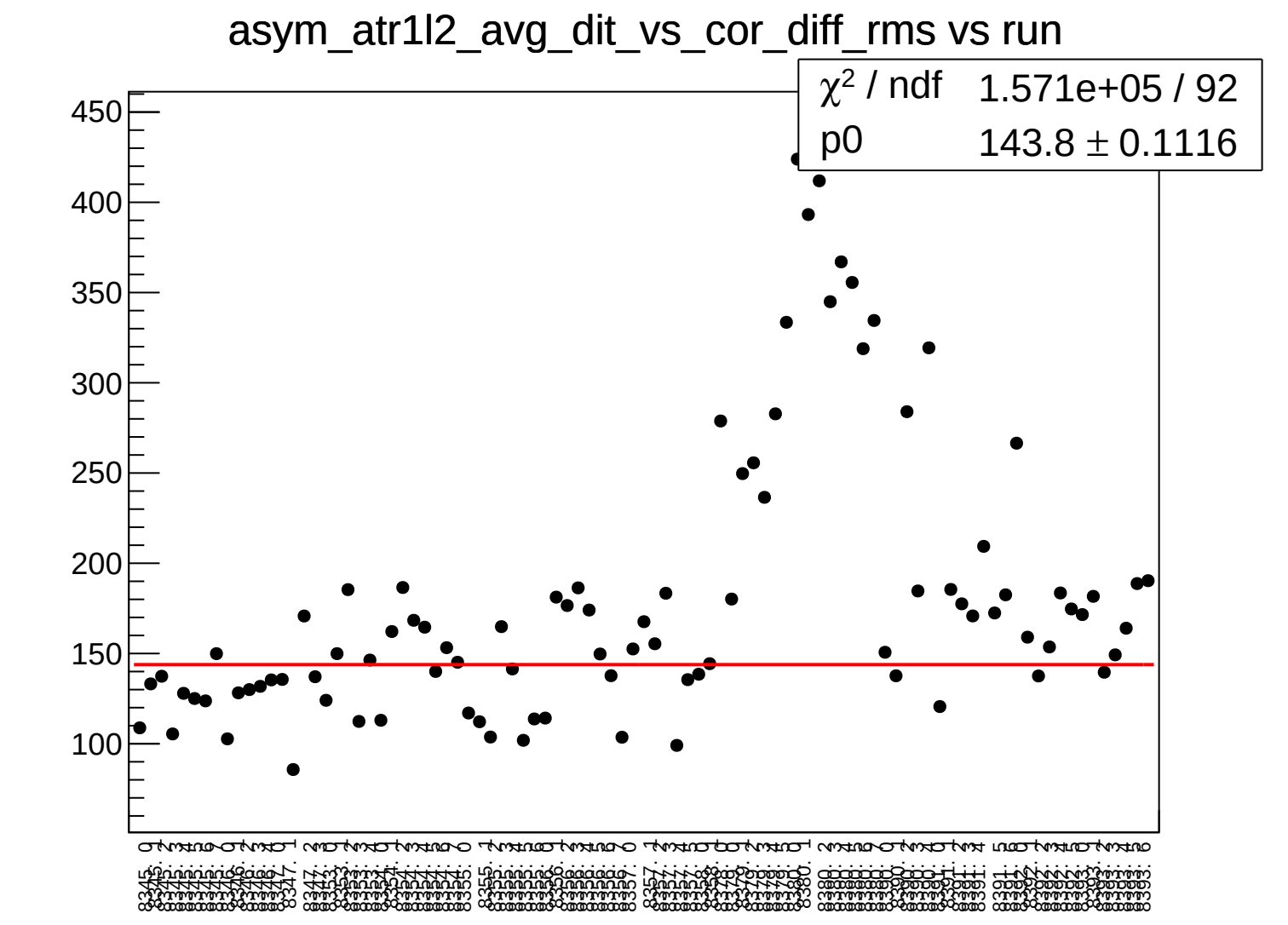

pull1D
Entries 93
Mean 0.03494
Std Dev 0.9887

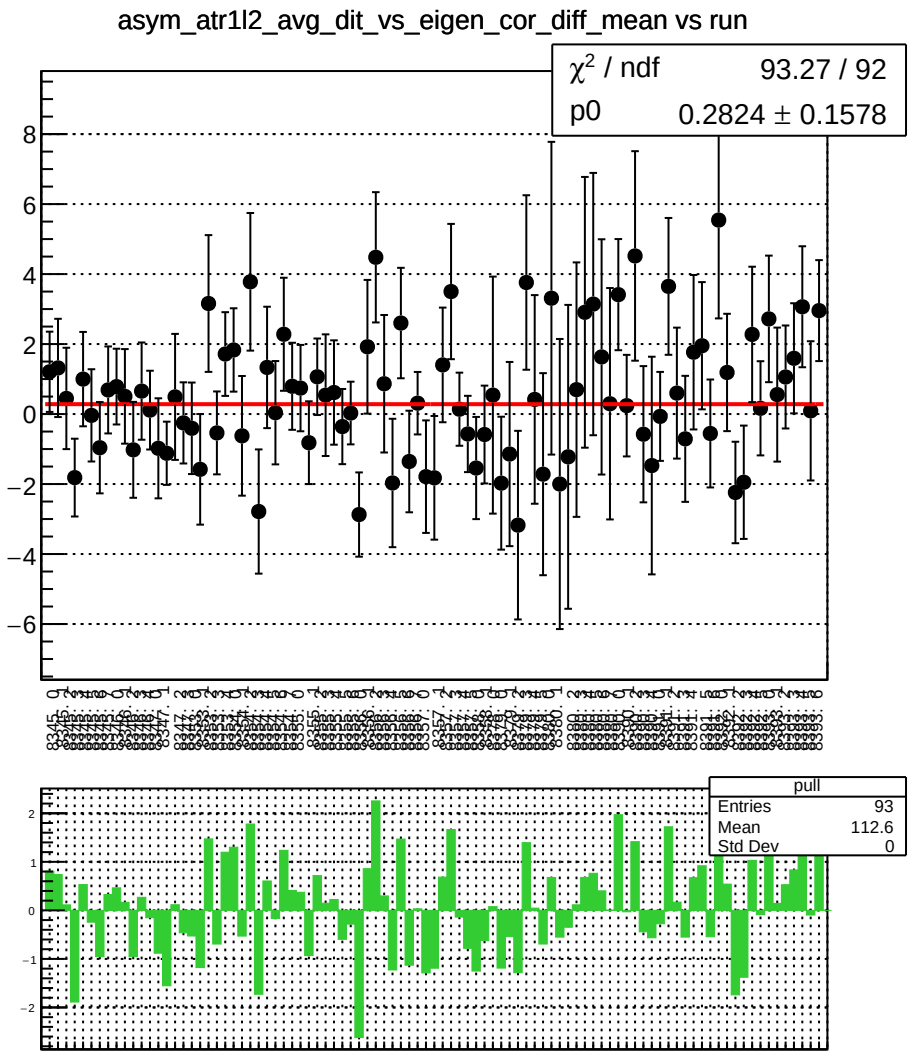

asym_atr1l2_avg_rms vs run
χ² / ndf 1.383e+04 / 92
p0 5312 ± 3.954
6500
6000
5500
5000
4500

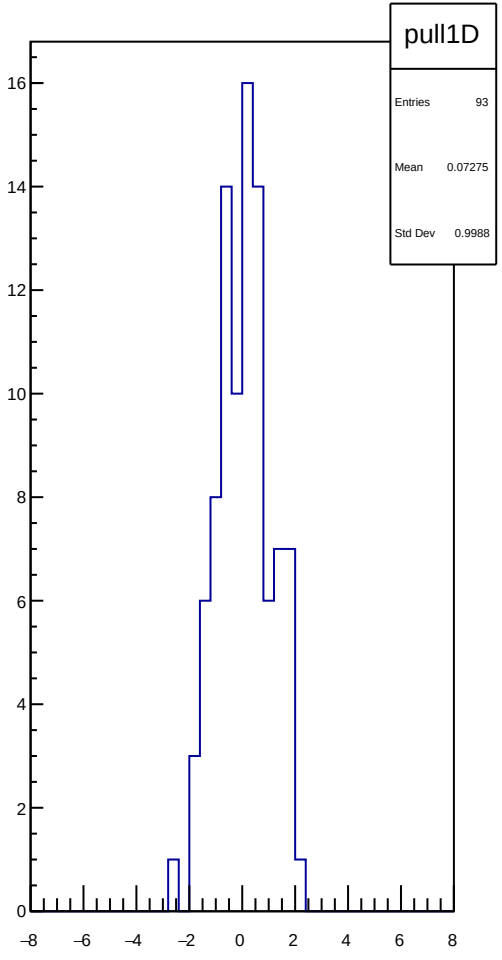

asym_atr1l2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 109 / 92
p0 4.997e−13 ± 8.669e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 93
Mean 196.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.006775
Std Dev 1.083
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

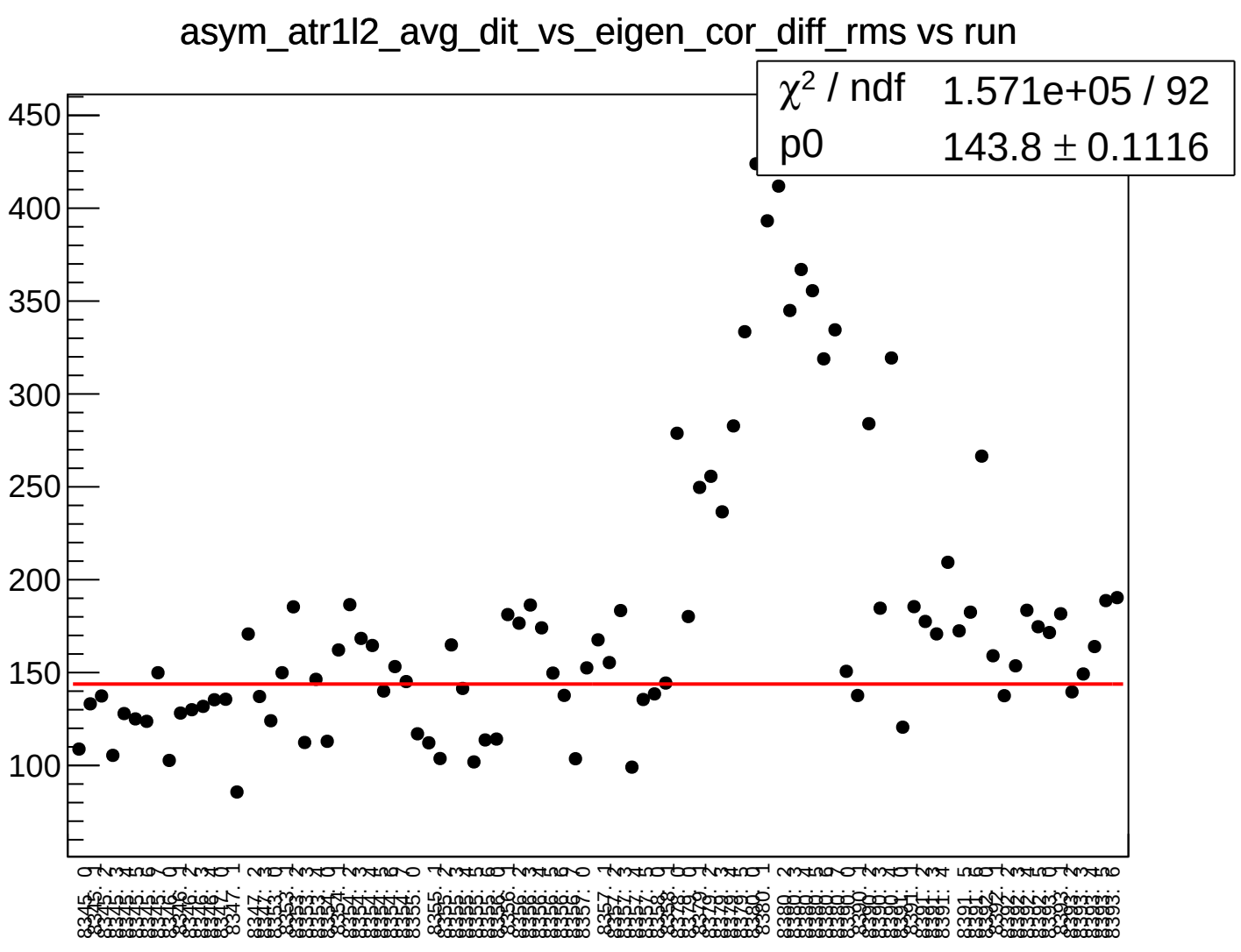

asym_atr1l2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.507e+05 / 92
p0 5.712e−10 ± 6.13e−13
1.2
1
0.8
0.6
0.4
0.2
0

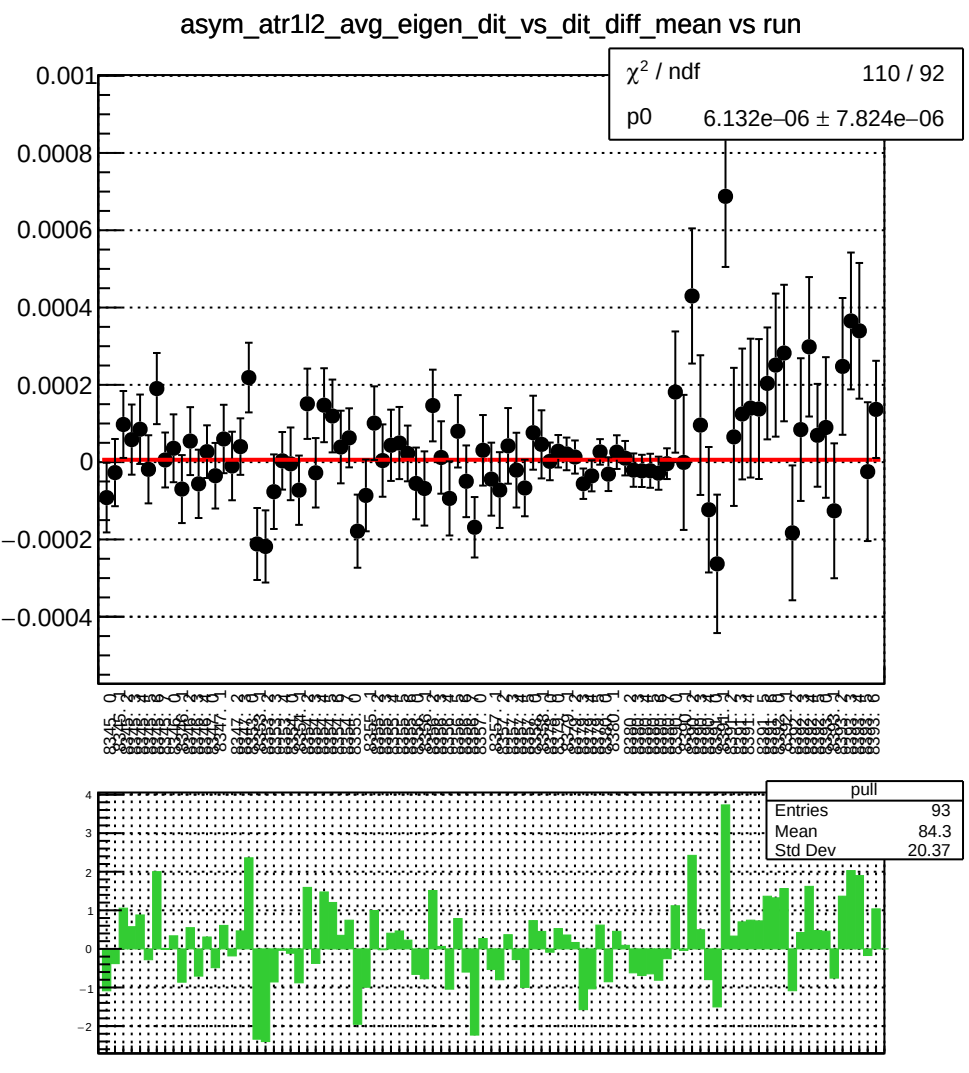

asym_atr1l2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 93.27 / 92
p0 0.2824 ± 0.1578
pull
Entries 93
Mean 112.6
Std Dev 0
pull1D
Entries 93
Mean 0.07275
Std Dev 0.9988

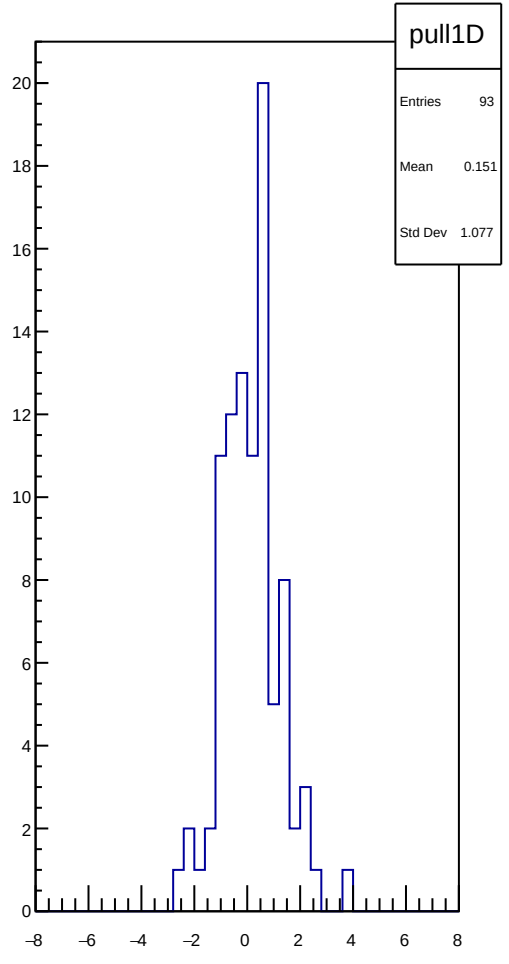

asym_atr1l2_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.571e+05 / 92
p0 143.8 ± 0.1116
450
400
350
300
250
200
150
100

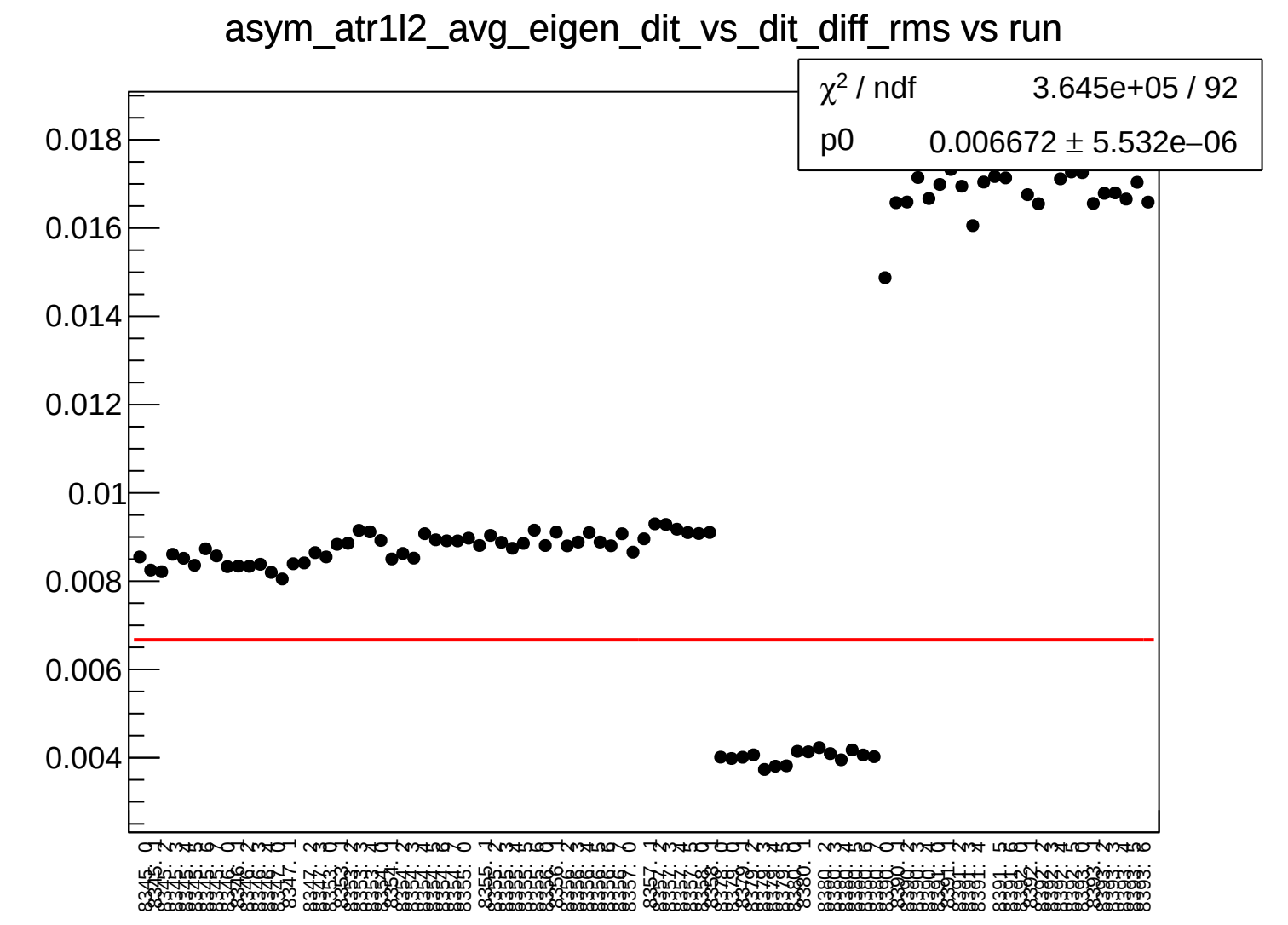

asym_atr1l2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.27 / 92
p0 0.2824 ± 0.1578
pull
Entries 93
Mean 112.6
Std Dev 0

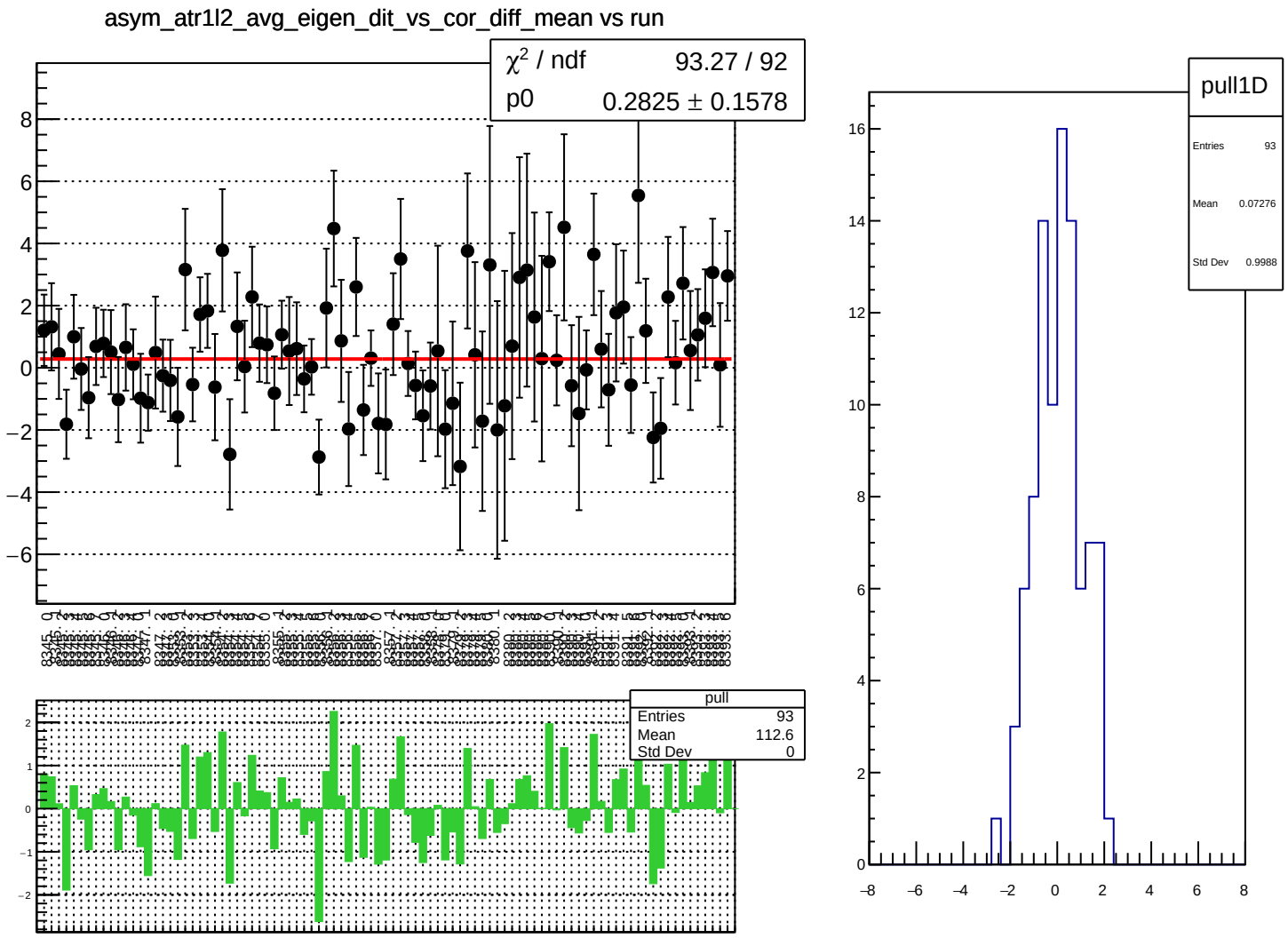

pull1D
Entries 93
Mean 0.07275
Std Dev 0.9988

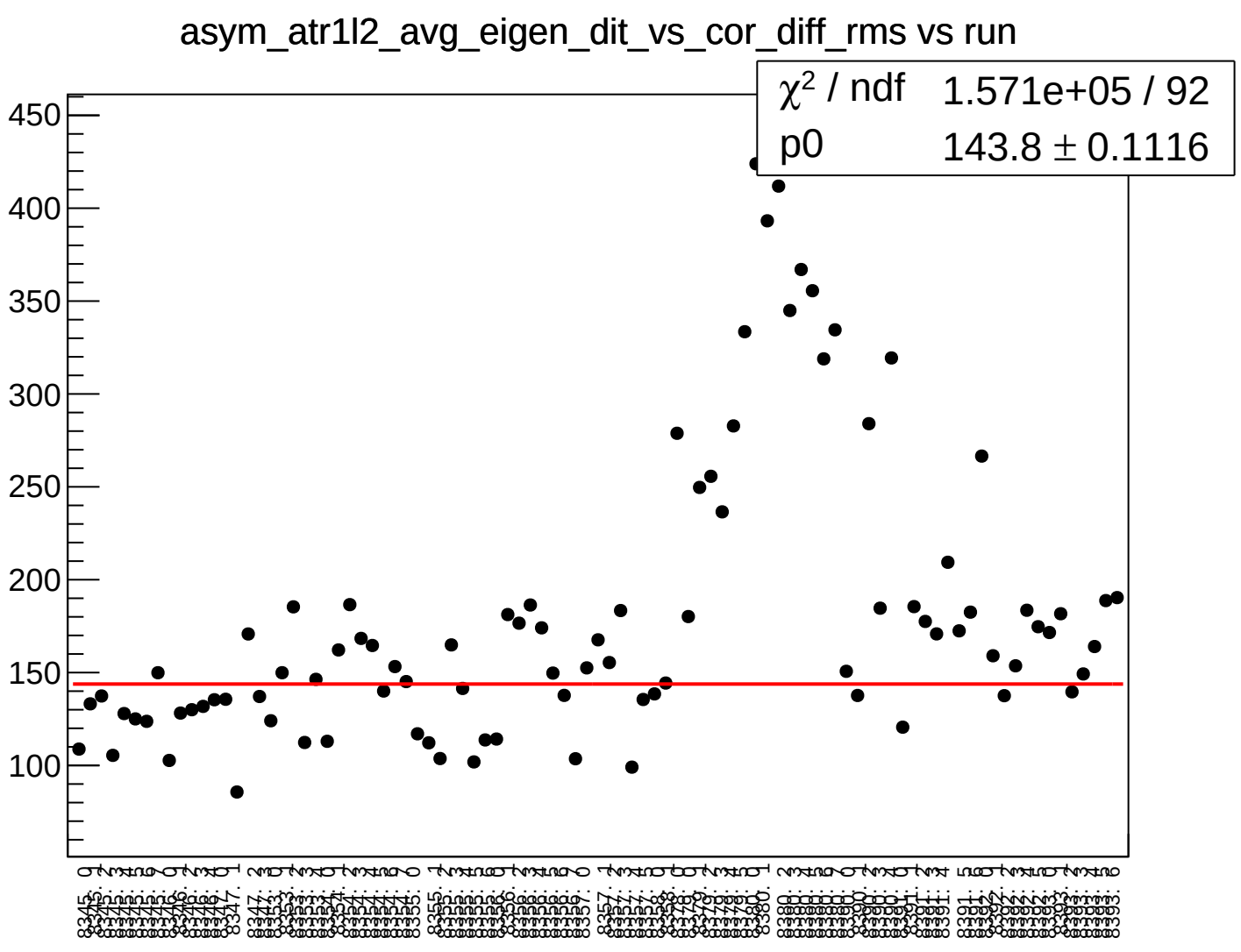

asym_atr1l2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.571e+05 / 92
p0 143.8 ± 0.1116
450
400
350
300
250
200
150
100

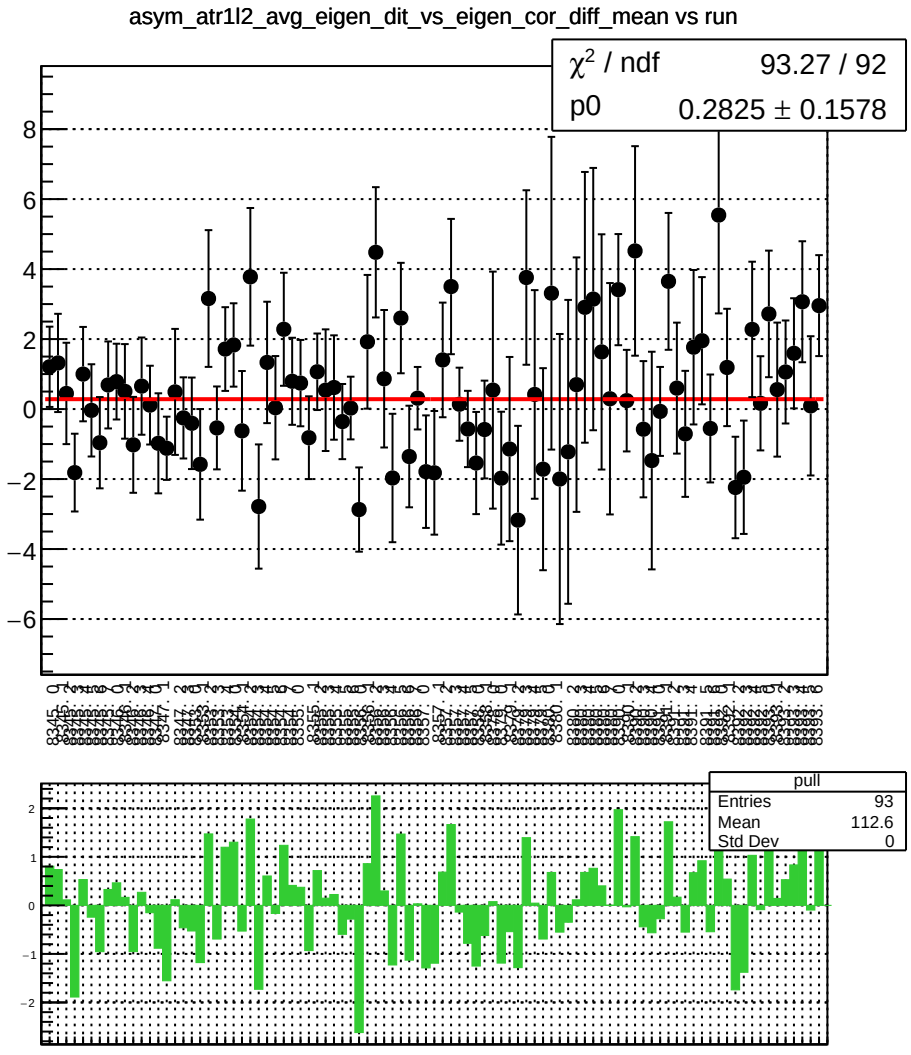

asym_atr1l2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 110 / 92
p0 6.132e−06 ± 7.824e−06
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
pull
Entries 93
Mean 84.3
Std Dev 20.37
4
3
2
1
0
−1
−2

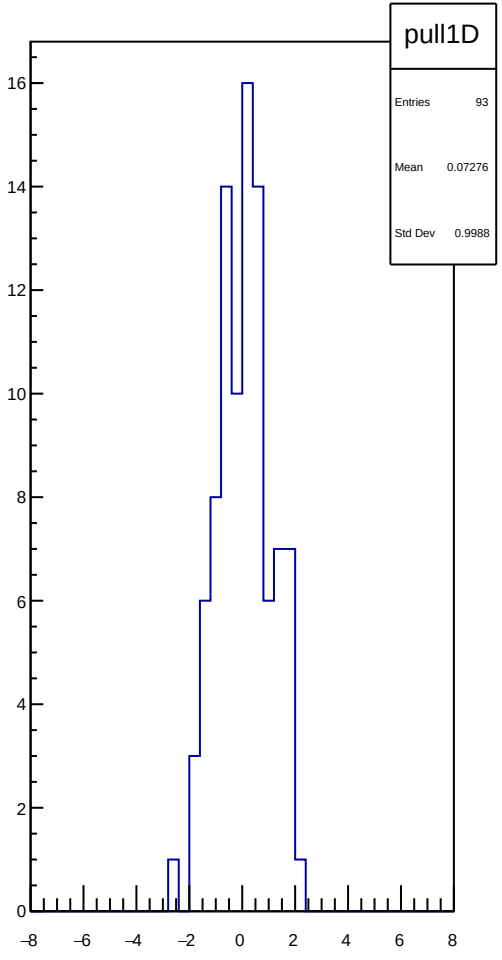

pull1D
Entries 93
Mean 0.151
Std Dev 1.077
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

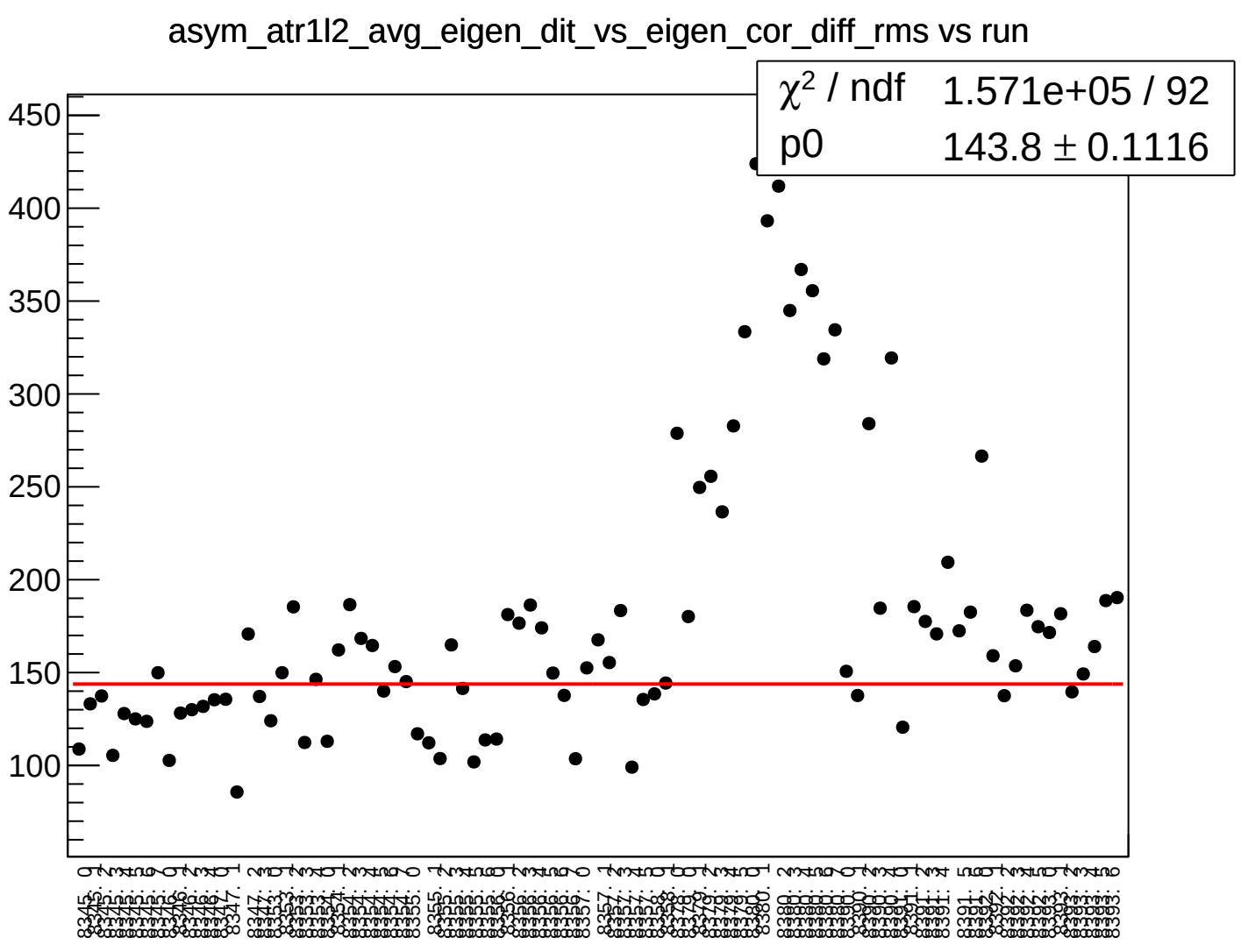

asym_atr1l2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.645e+05 / 92
p0 0.006672 ± 5.532e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

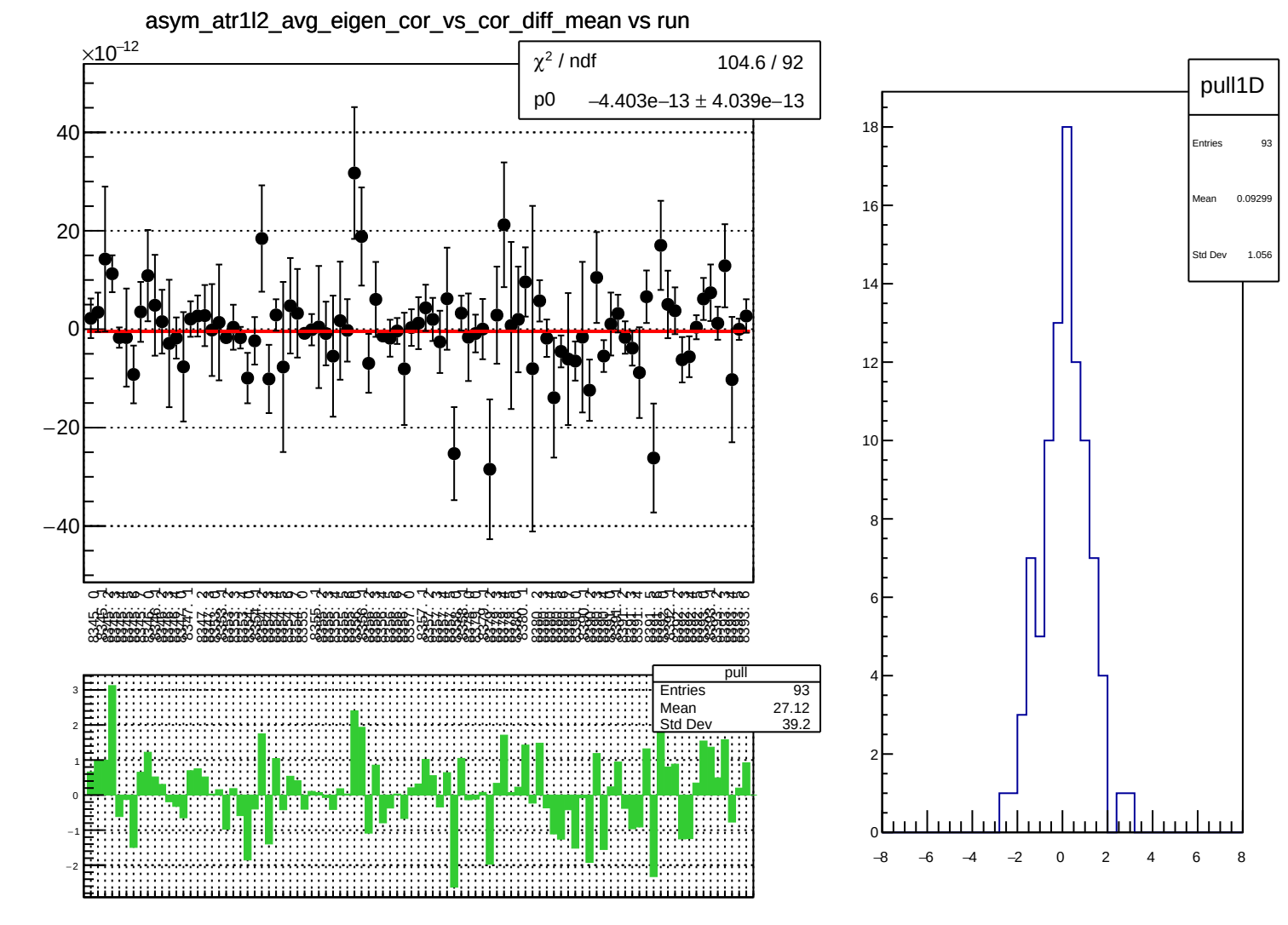

asym_atr1l2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.27 / 92
p0 0.2825 ± 0.1578
pull
Entries 93
Mean 112.6
Std Dev 0
pull1D
Entries 93
Mean 0.07276
Std Dev 0.9988

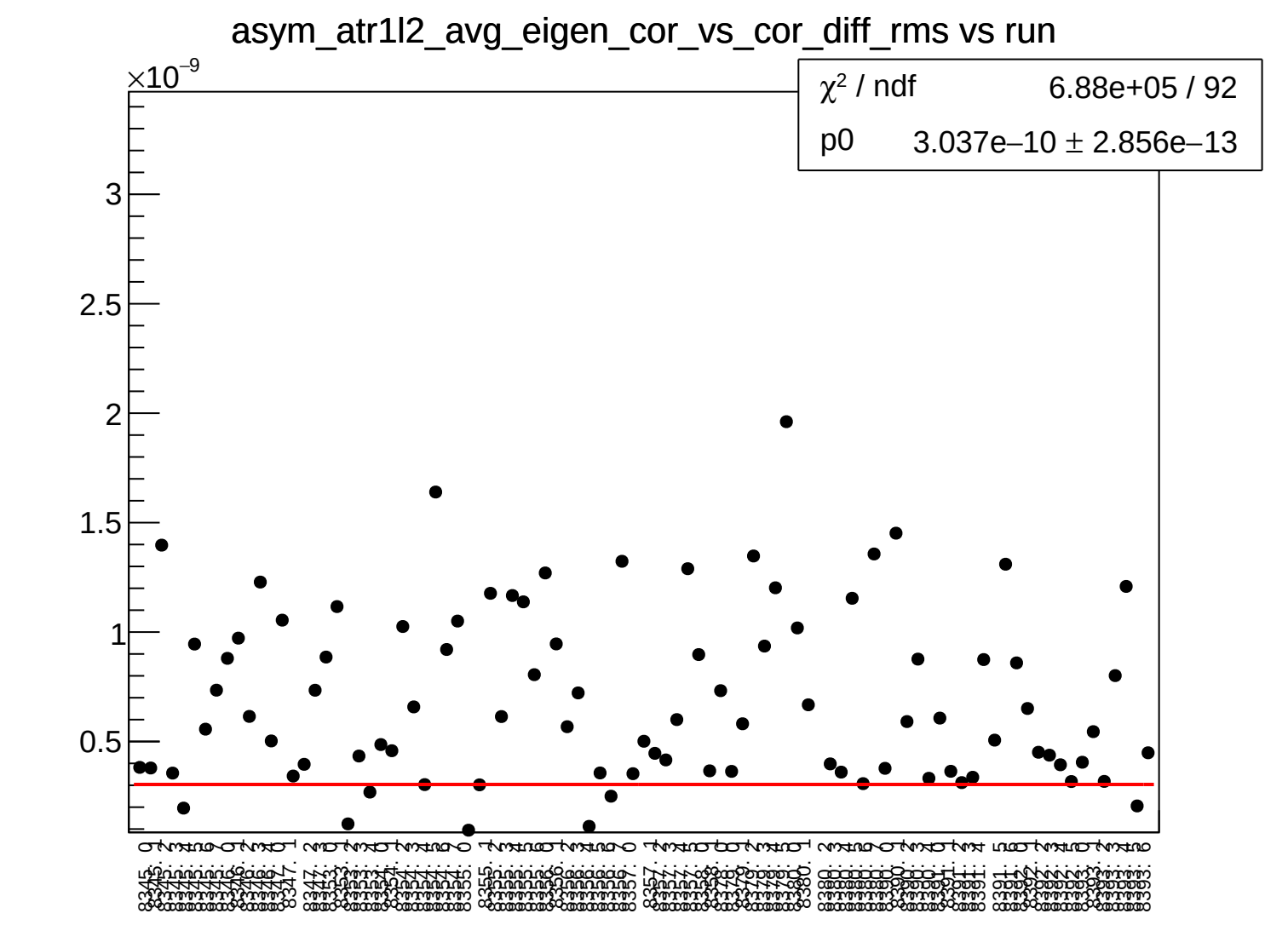

asym_atr1l2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.571e+05 / 92
p0 143.8 ± 0.1116
450
400
350
300
250
200
150
100

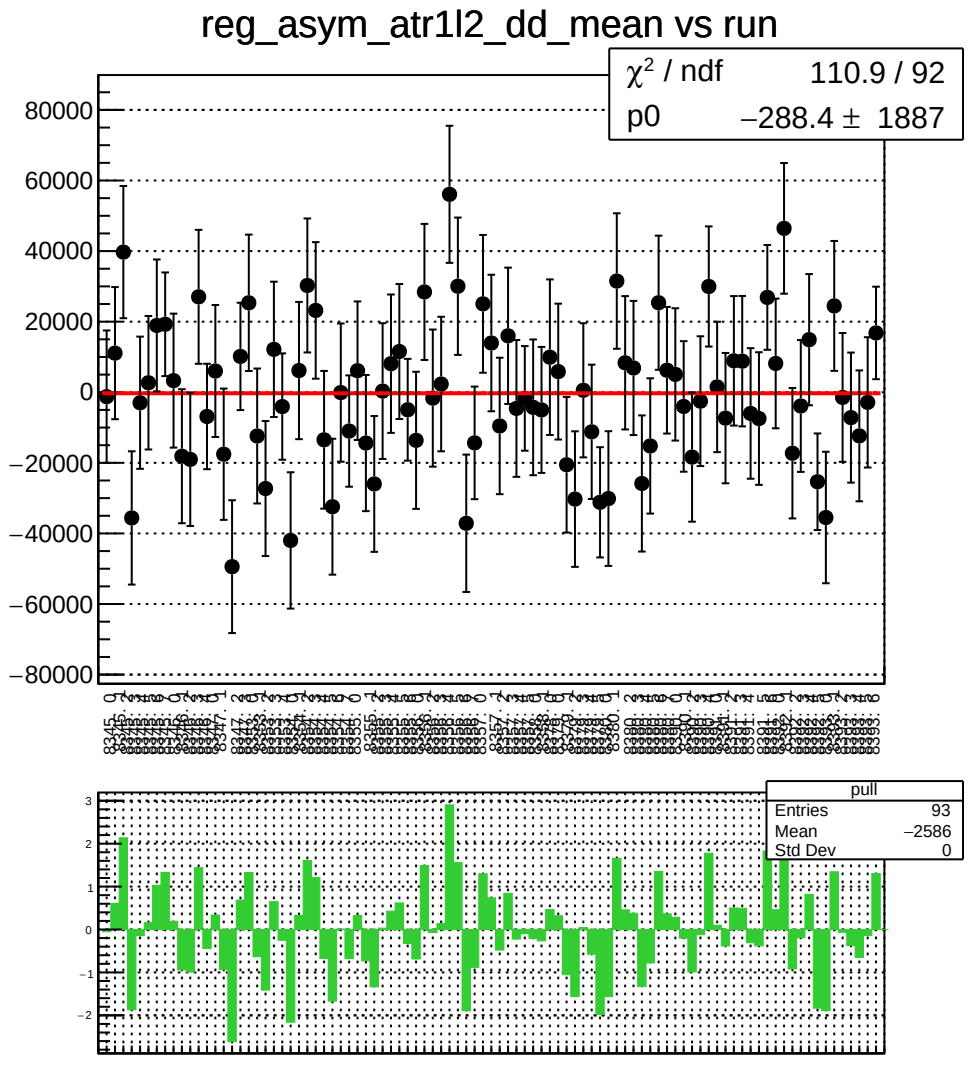

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.27 / 92
p0 0.2825 ± 0.1578
pull
Entries 93
Mean 112.6
Std Dev 0

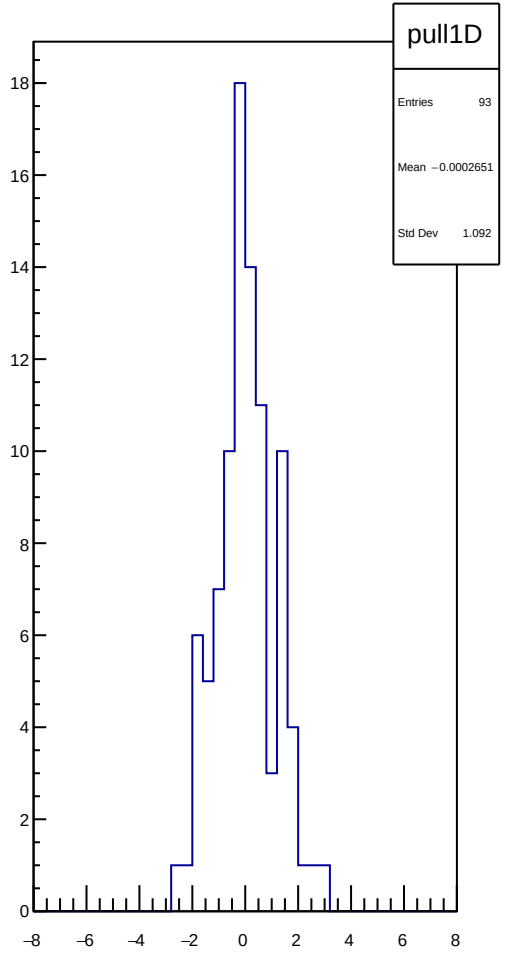

pull1D
Entries 93
Mean 0.07276
Std Dev 0.9988

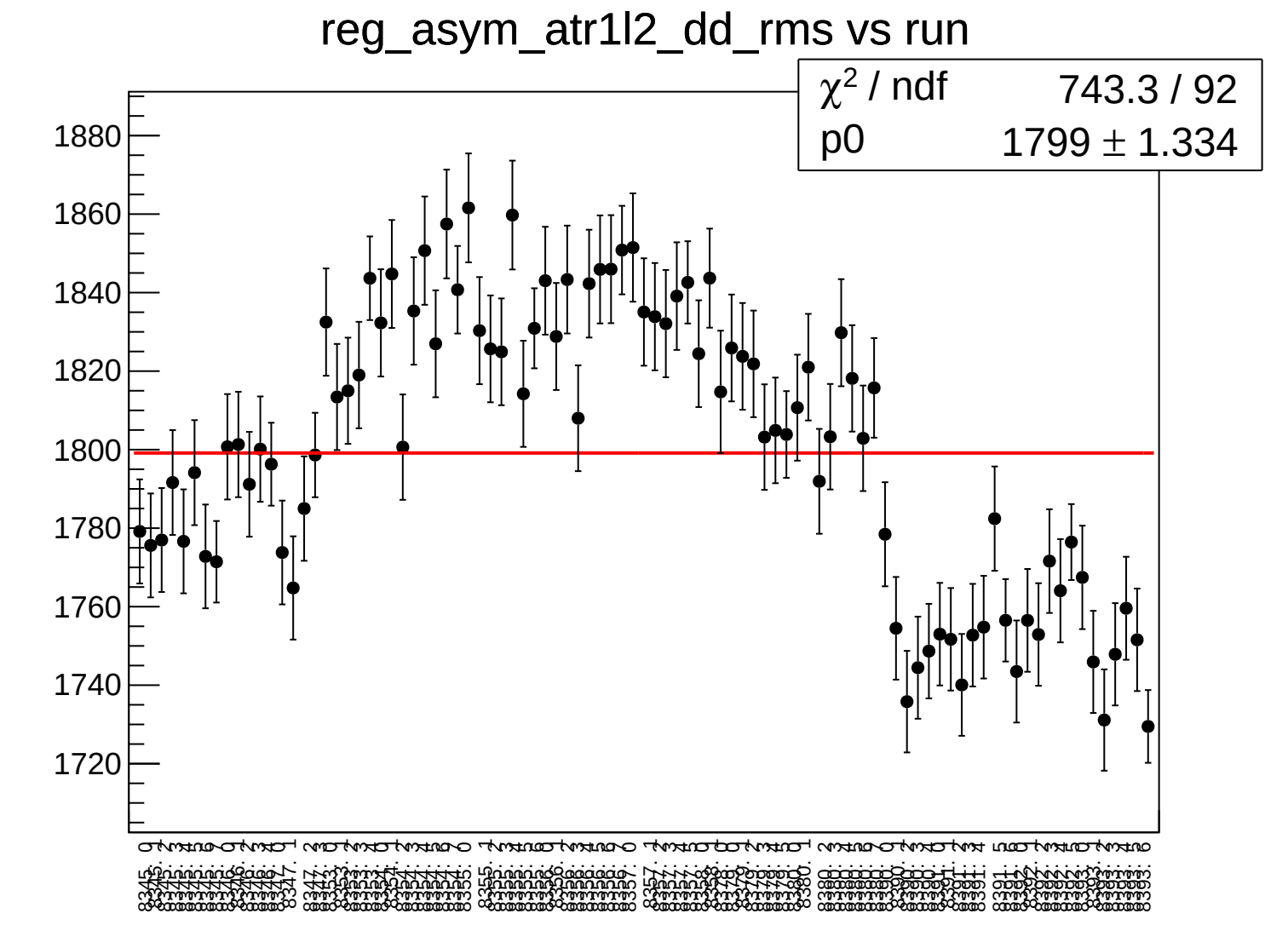

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.571e+05 / 92
p0 143.8 ± 0.1116
450
400
350
300
250
200
150
100

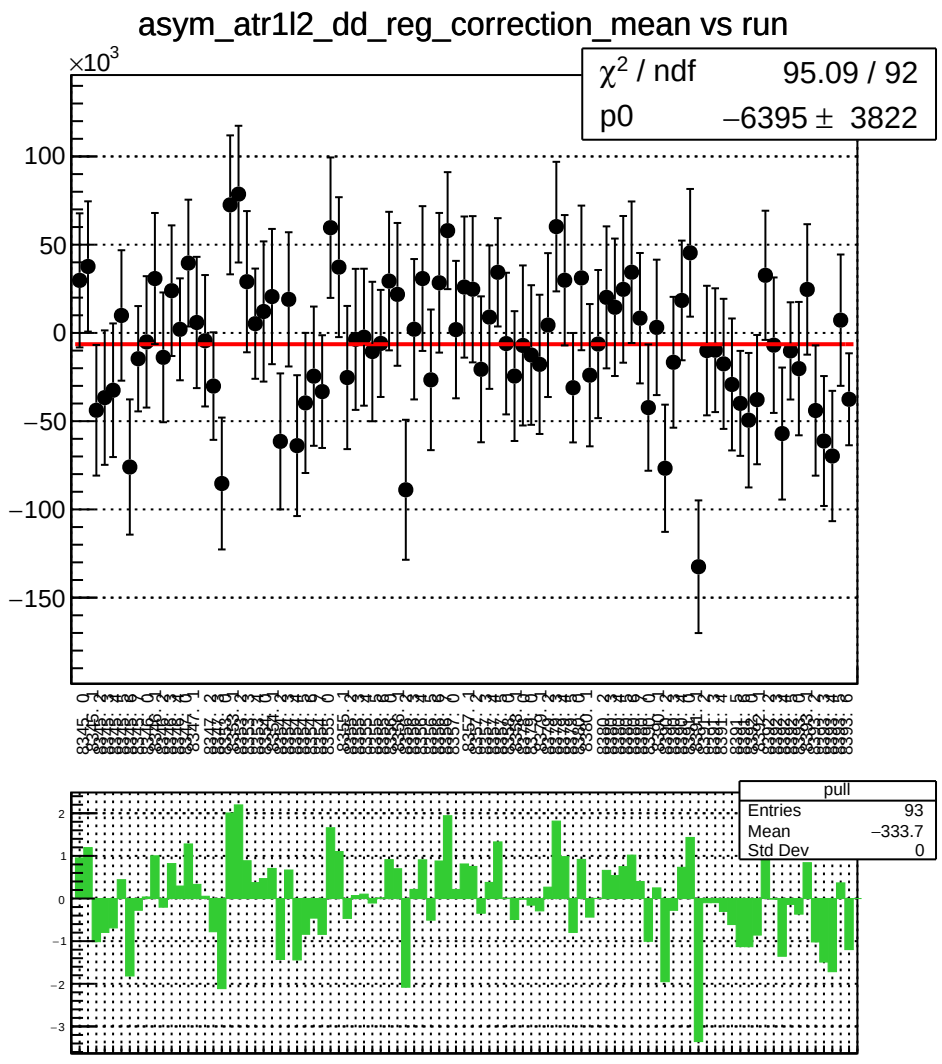

asym_atr1l2_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 104.6 / 92
p0 −4.403e−13 ± 4.039e−13
40
20
0
−20
−40
pull
Entries 93
Mean 27.12
Std Dev 39.2
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.09299
Std Dev 1.056
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

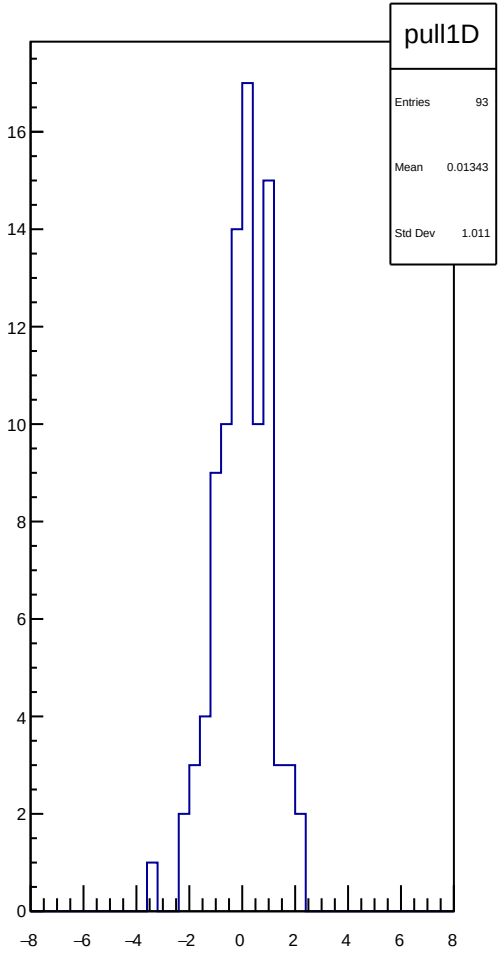

asym_atr1l2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.88e+05 / 92
p0 3.037e−10 ± 2.856e−13
3
2.5
2
1.5
1
0.5

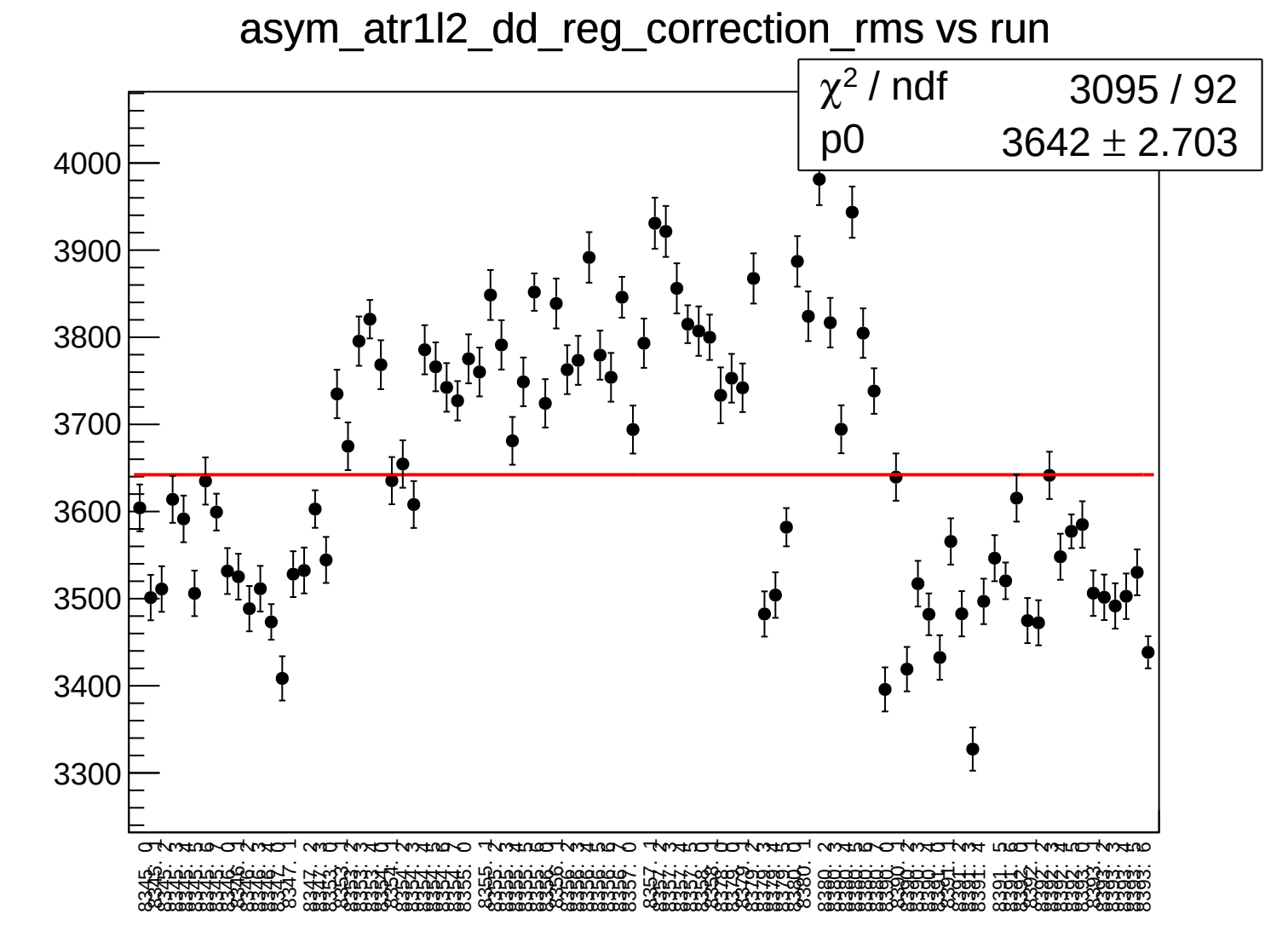

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 110.9 / 92
p0 −288.4 ± 1887
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean −2586
Std Dev 0
3
2
1
0
−1
−2

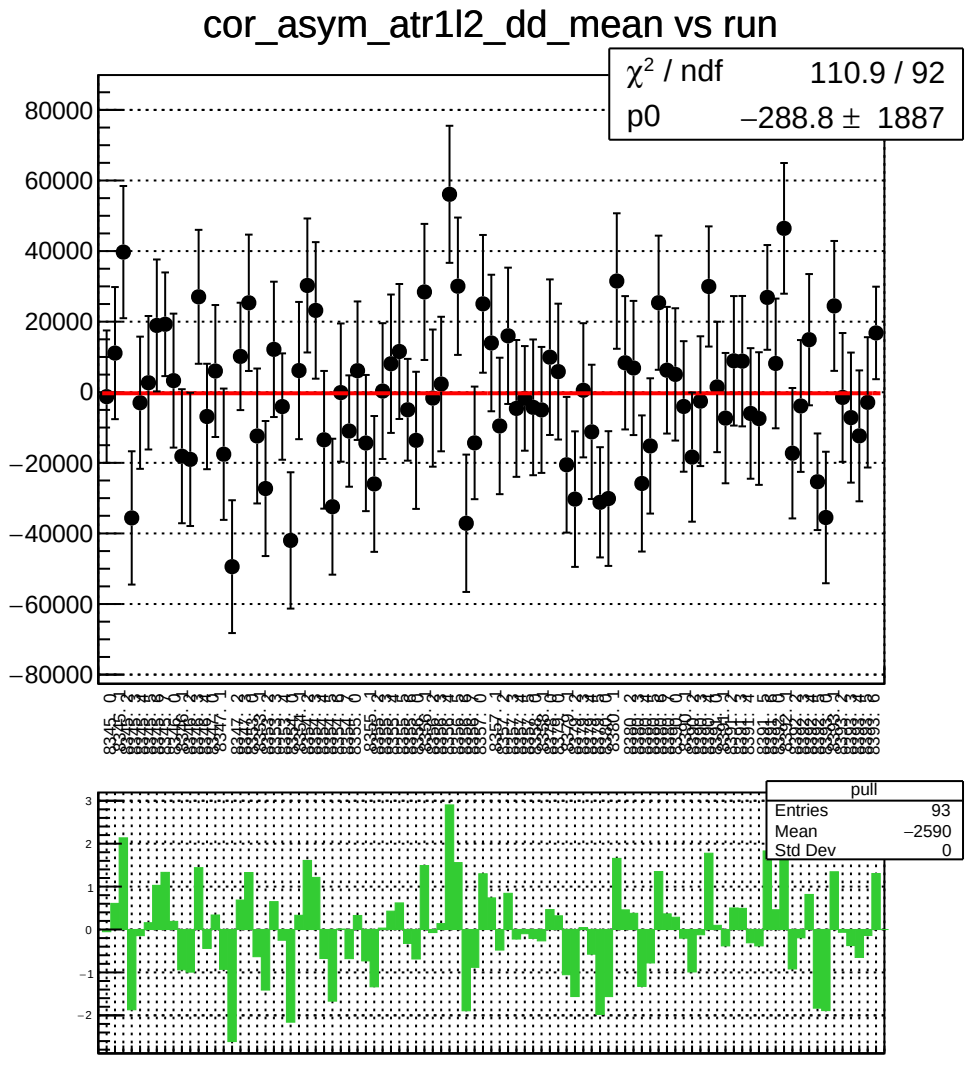

pull1D
Entries 93
Mean −0.0002651
Std Dev 1.092
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

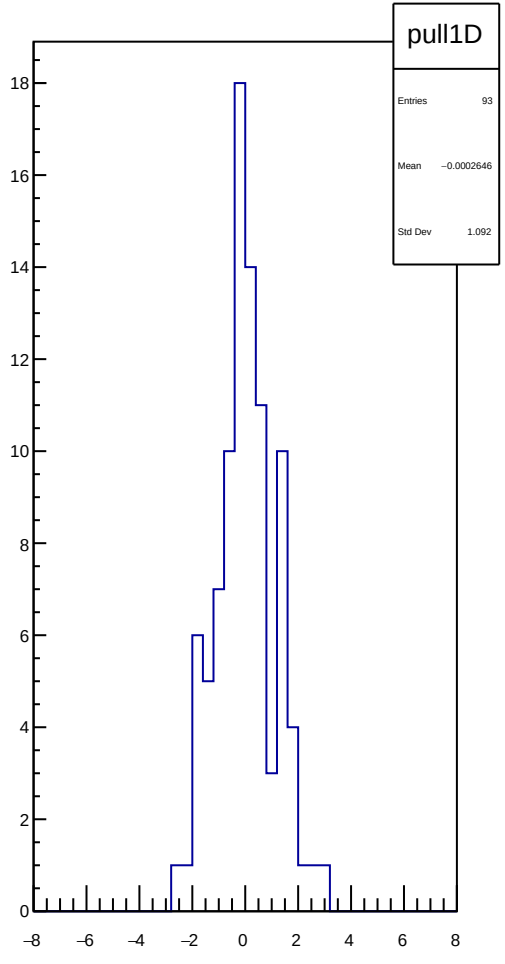

reg_asym_atr1l2_dd_rms vs run
χ^2 / ndf 743.3 / 92
p0 1799 ± 1.334
1880
1860
1840
1820
1800
1780
1760
1740
1720

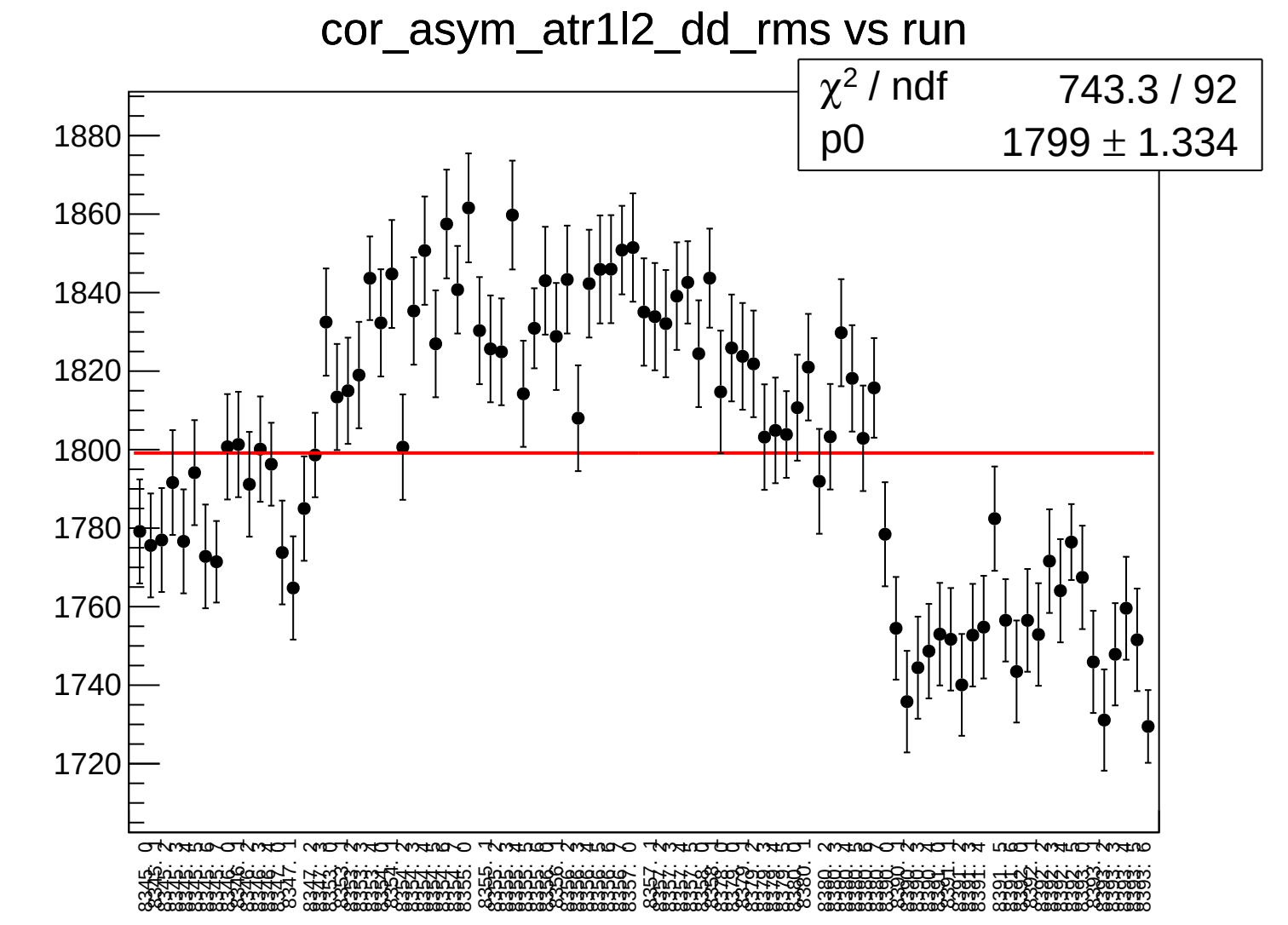

asym_atr1l2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 95.09 / 92
p0 −6395 ± 3822
100
50
0
−50
−100
−150
pull
Entries 93
Mean −333.7
Std Dev 0
2
1
0
−1
−2
−3

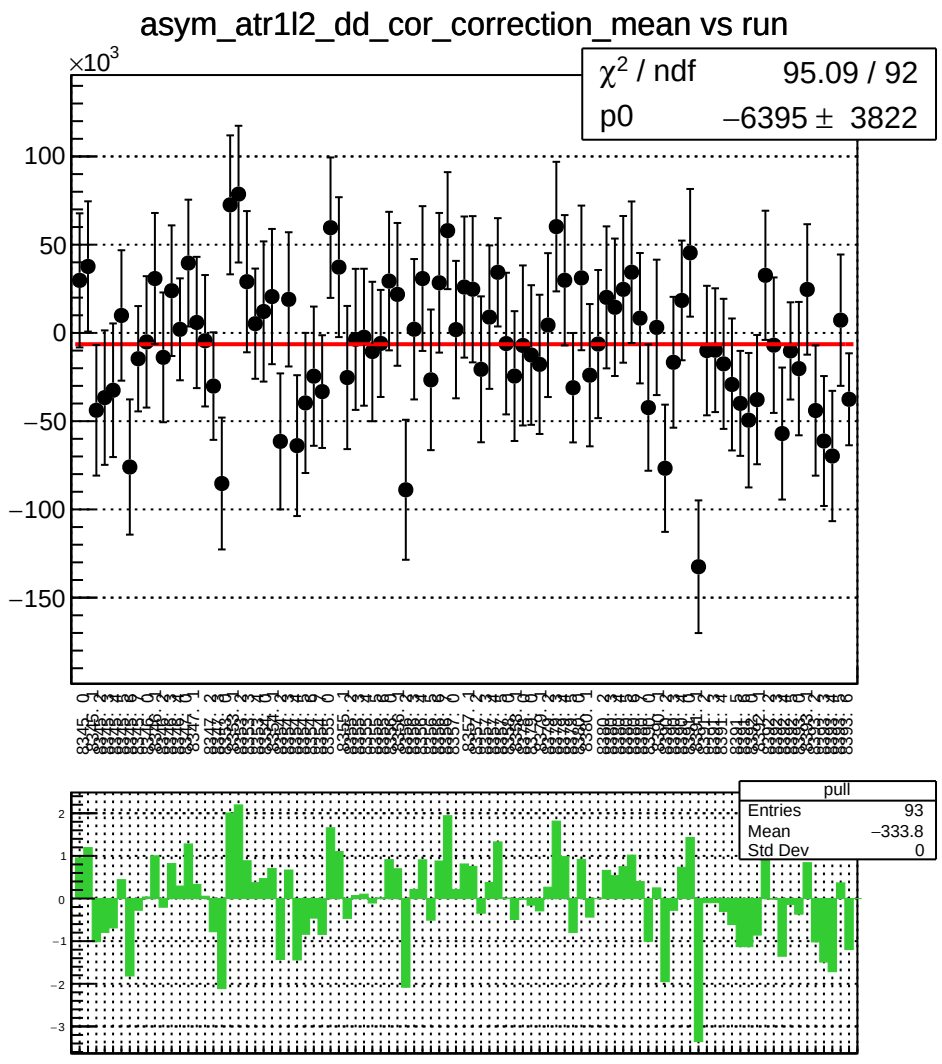

pull1D
Entries 93
Mean 0.01343
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

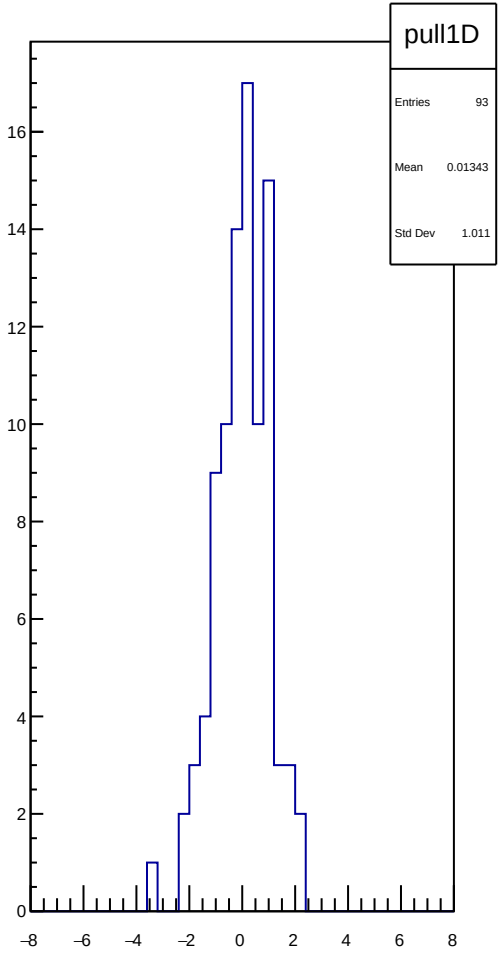

asym_atr1l2_dd_reg_correction_rms vs run
χ² / ndf 3095 / 92
p0 3642 ± 2.703
4000
3900
3800
3700
3600
3500
3400
3300

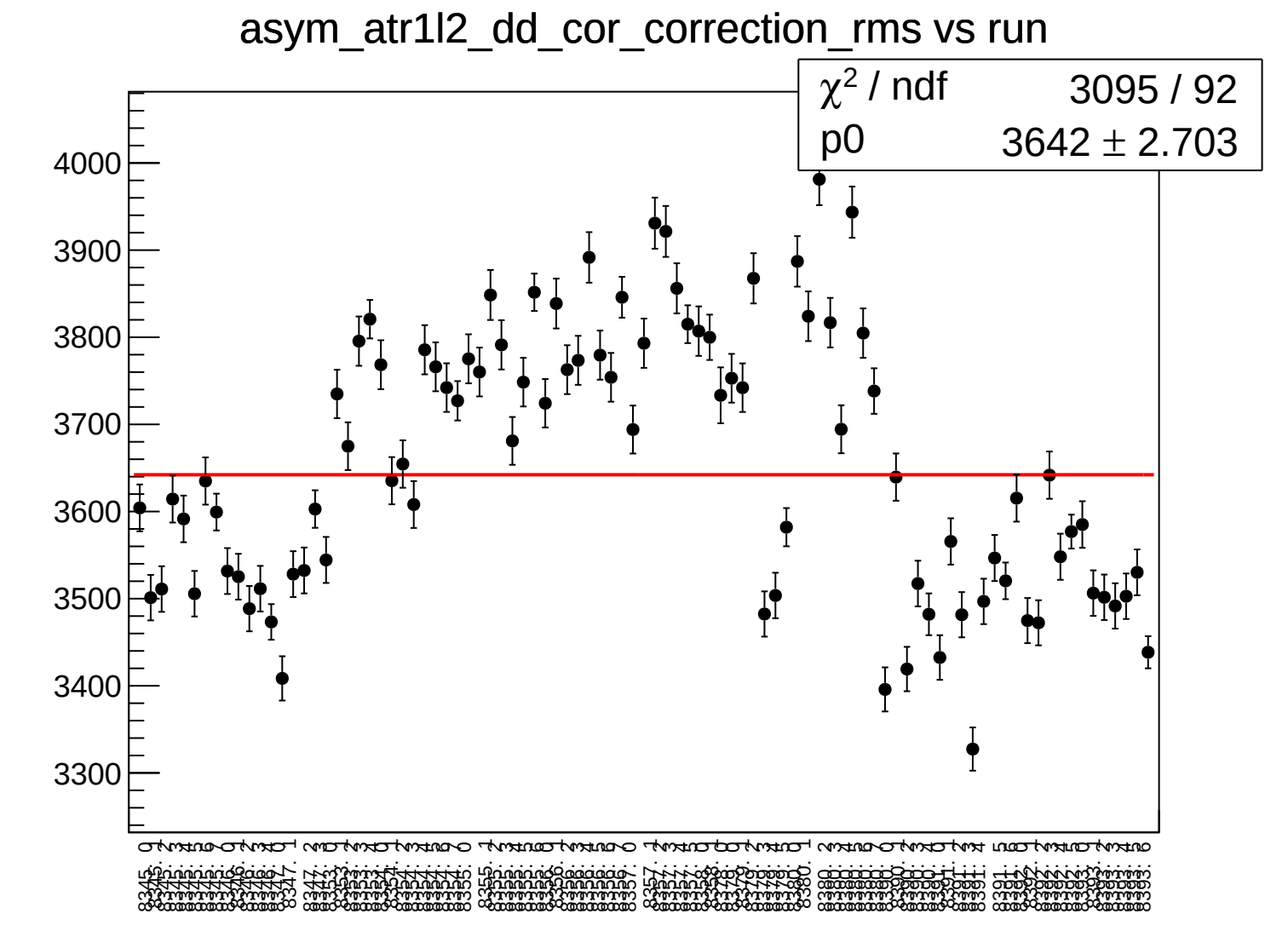

cor_asym_atr1l2_dd_mean vs run
χ² / ndf 110.9 / 92
p0 −288.8 ± 1887
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean −2590
Std Dev 0
3
2
1
0
−1
−2

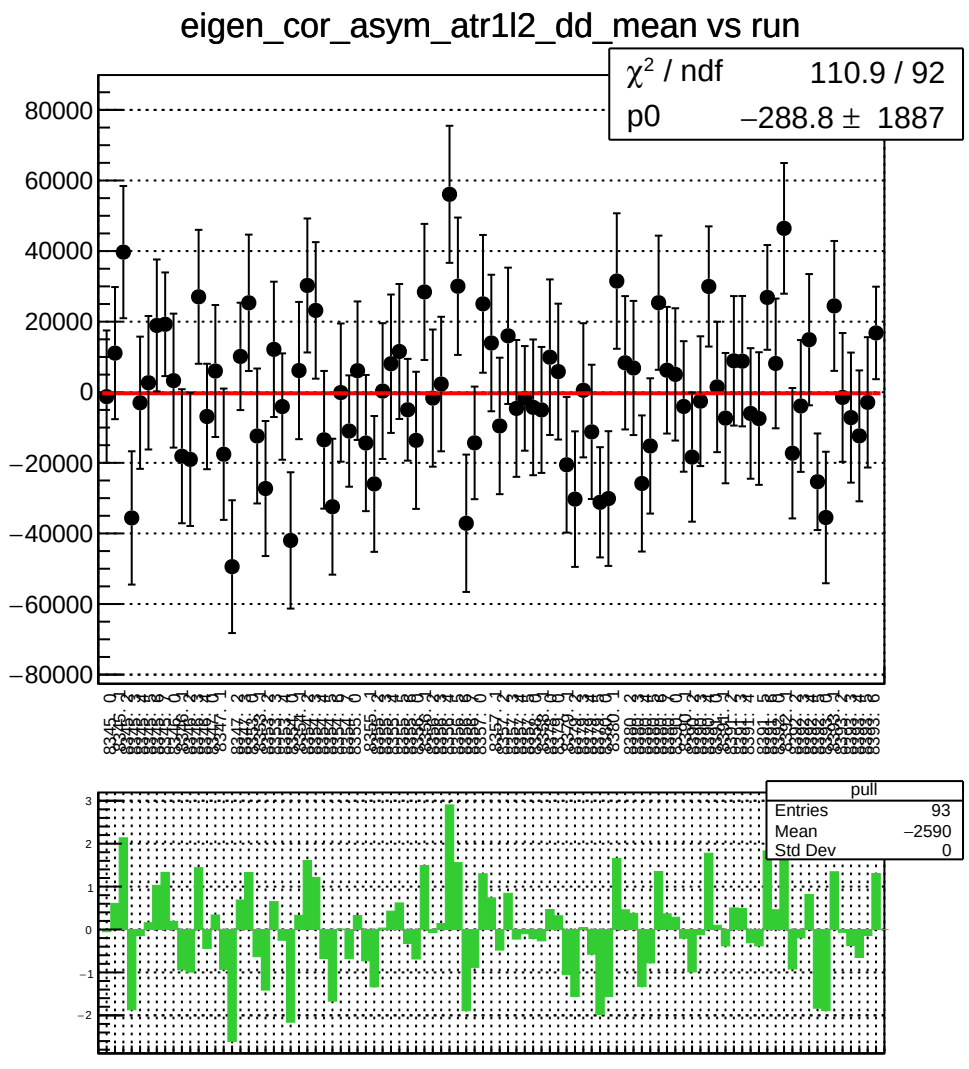

pull1D
Entries 93
Mean −0.0002646
Std Dev 1.092
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

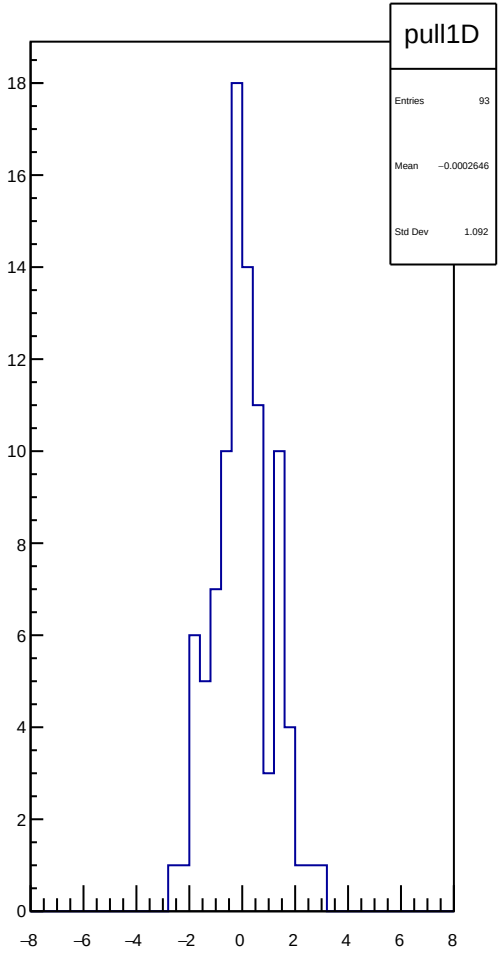

cor_asym_atr1l2_dd_rms vs run
χ² / ndf 743.3 / 92
p0 1799 ± 1.334
1880
1860
1840
1820
1800
1780
1760
1740
1720

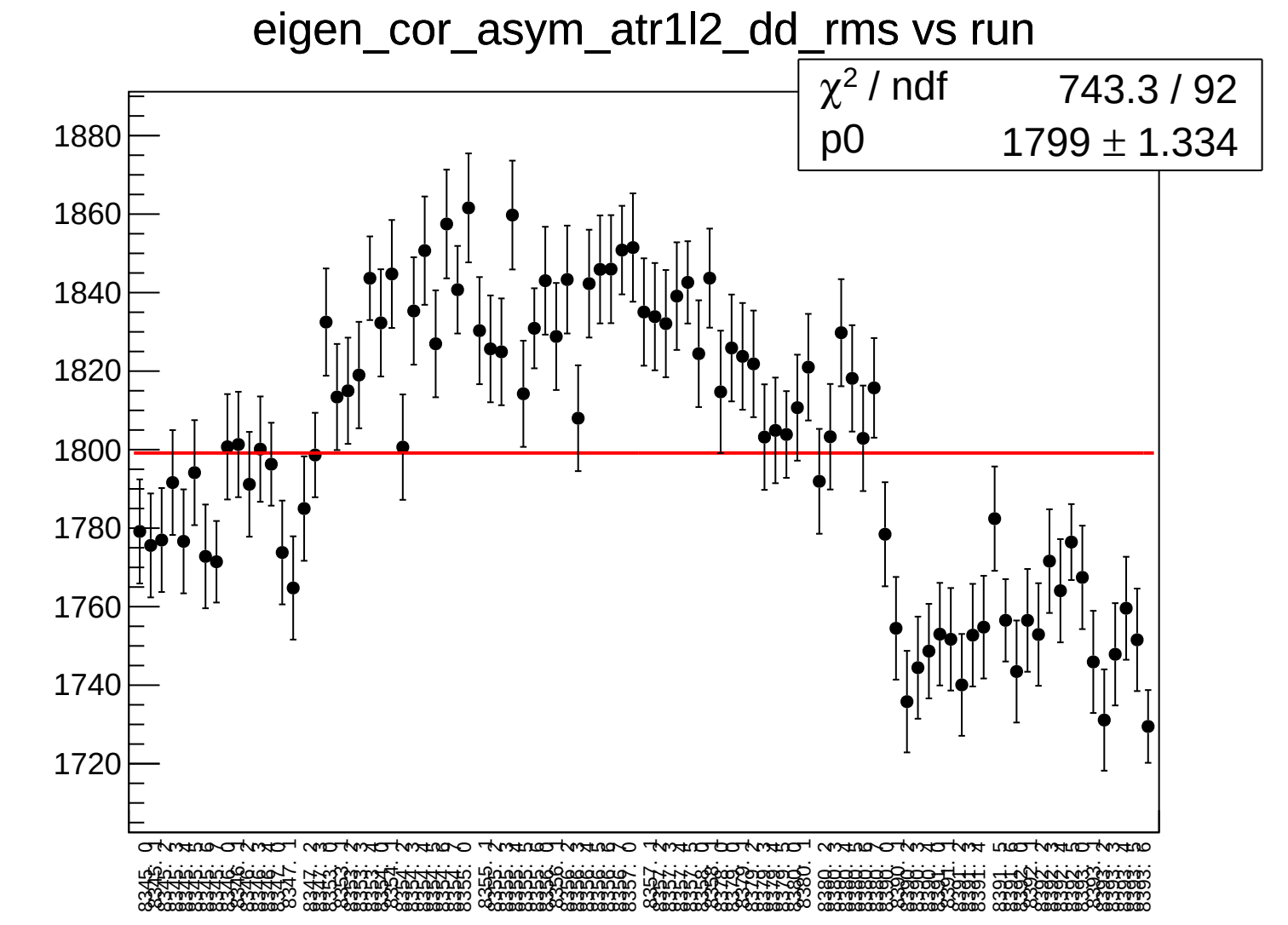

asym_atr1l2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 95.09 / 92
p0 −6395 ± 3822
100
50
0
−50
−100
−150
pull
Entries 93
Mean −333.8
Std Dev 0
2
1
0
−1
−2
−3

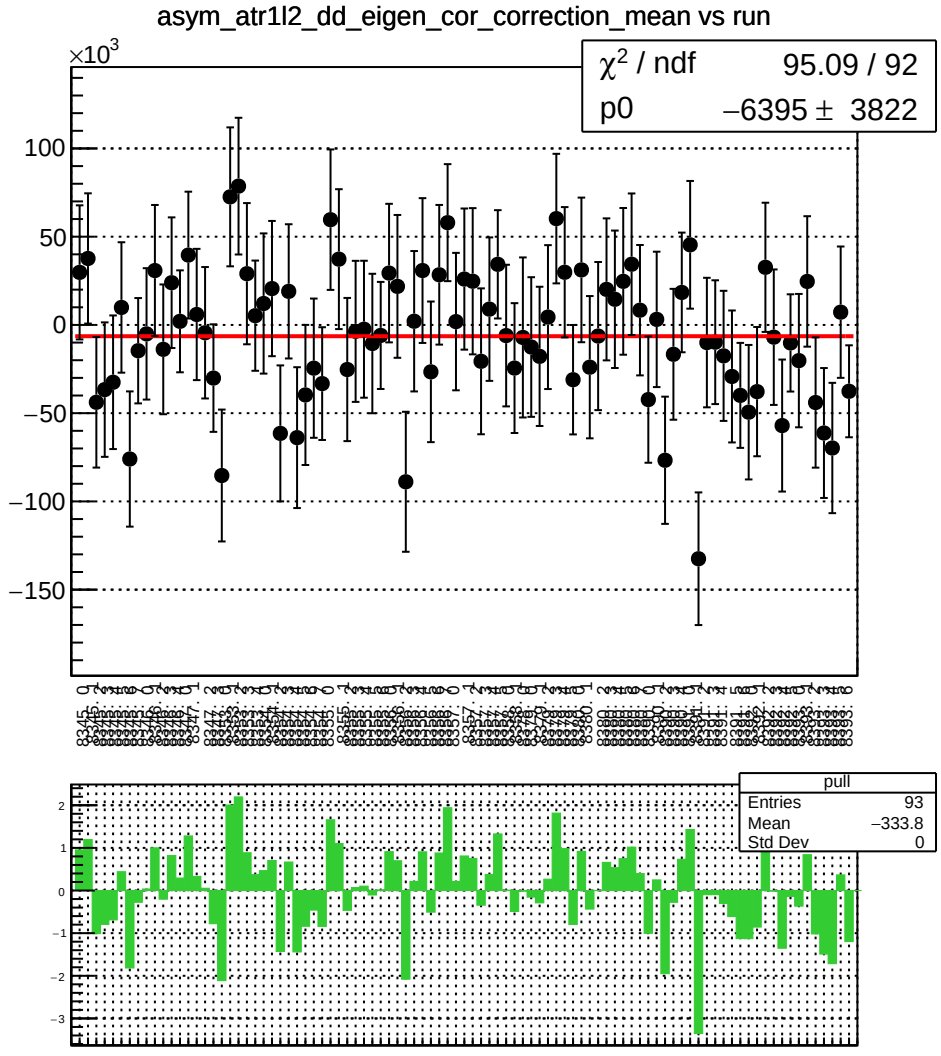

pull1D
Entries 93
Mean 0.01343
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

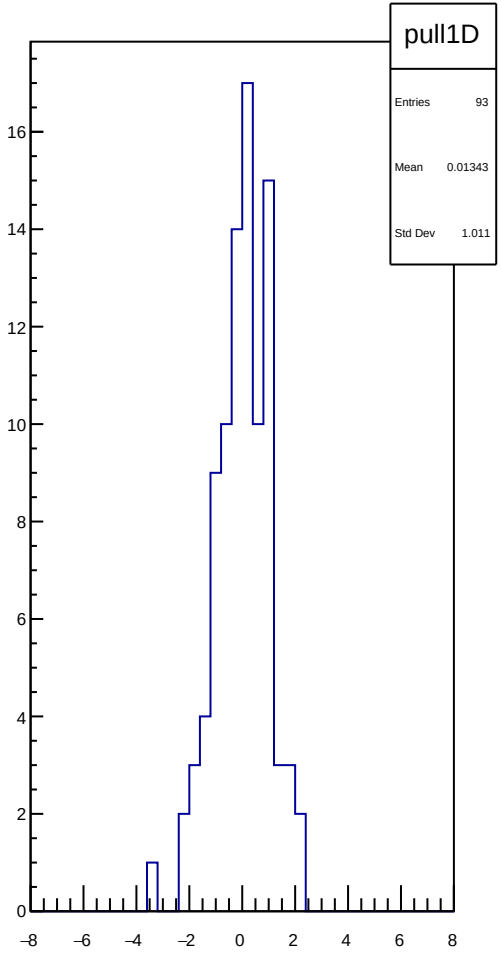

asym_atr1l2_dd_cor_correction_rms vs run
χ² / ndf 3095 / 92
p0 3642 ± 2.703
4000
3900
3800
3700
3600
3500
3400
3300

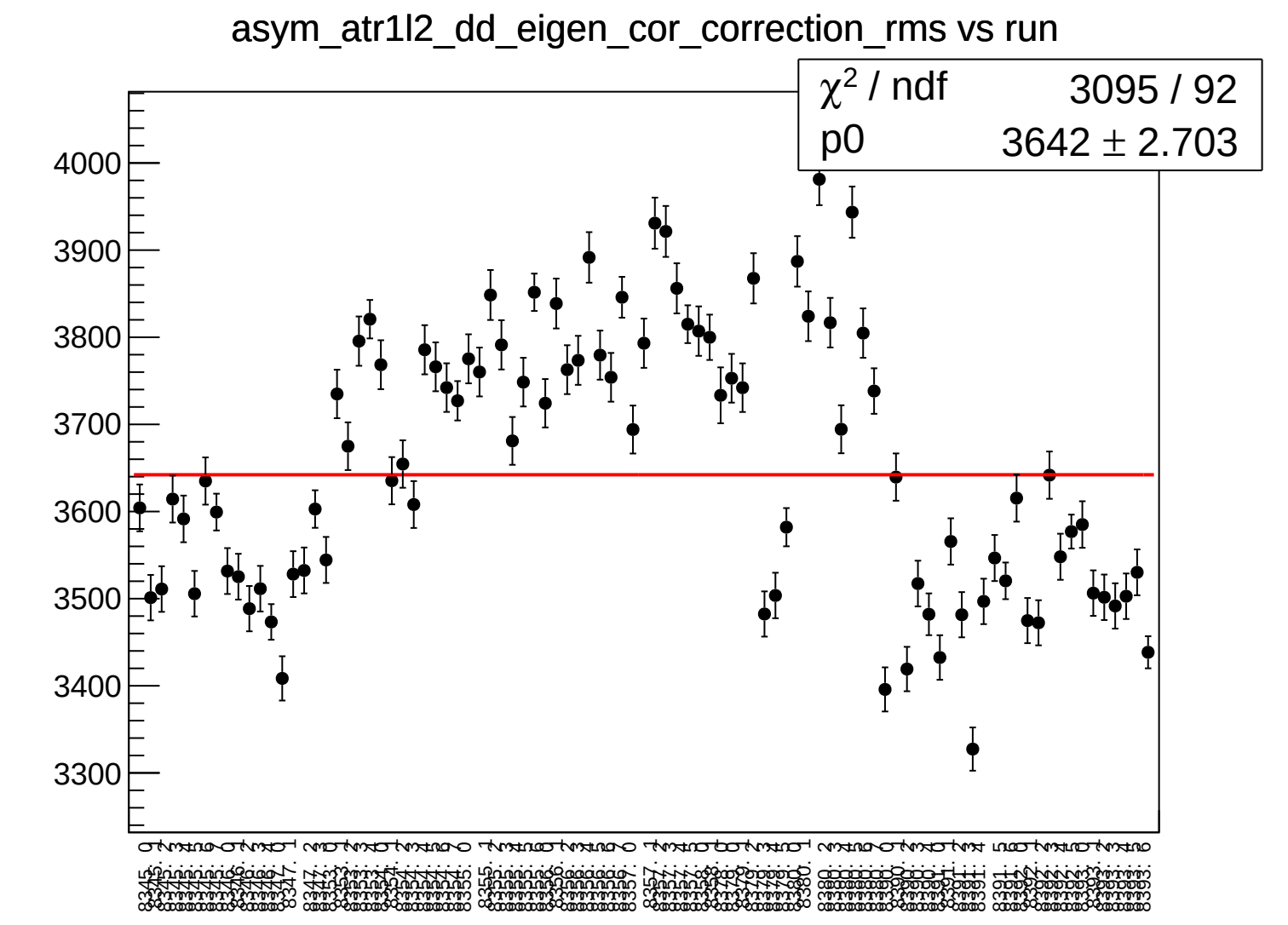

eigen_cor_asym_atr1l2_dd_mean vs run
χ² / ndf 110.9 / 92
p0 −288.8 ± 1887
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean −2590
Std Dev 0
3
2
1
0
−1
−2

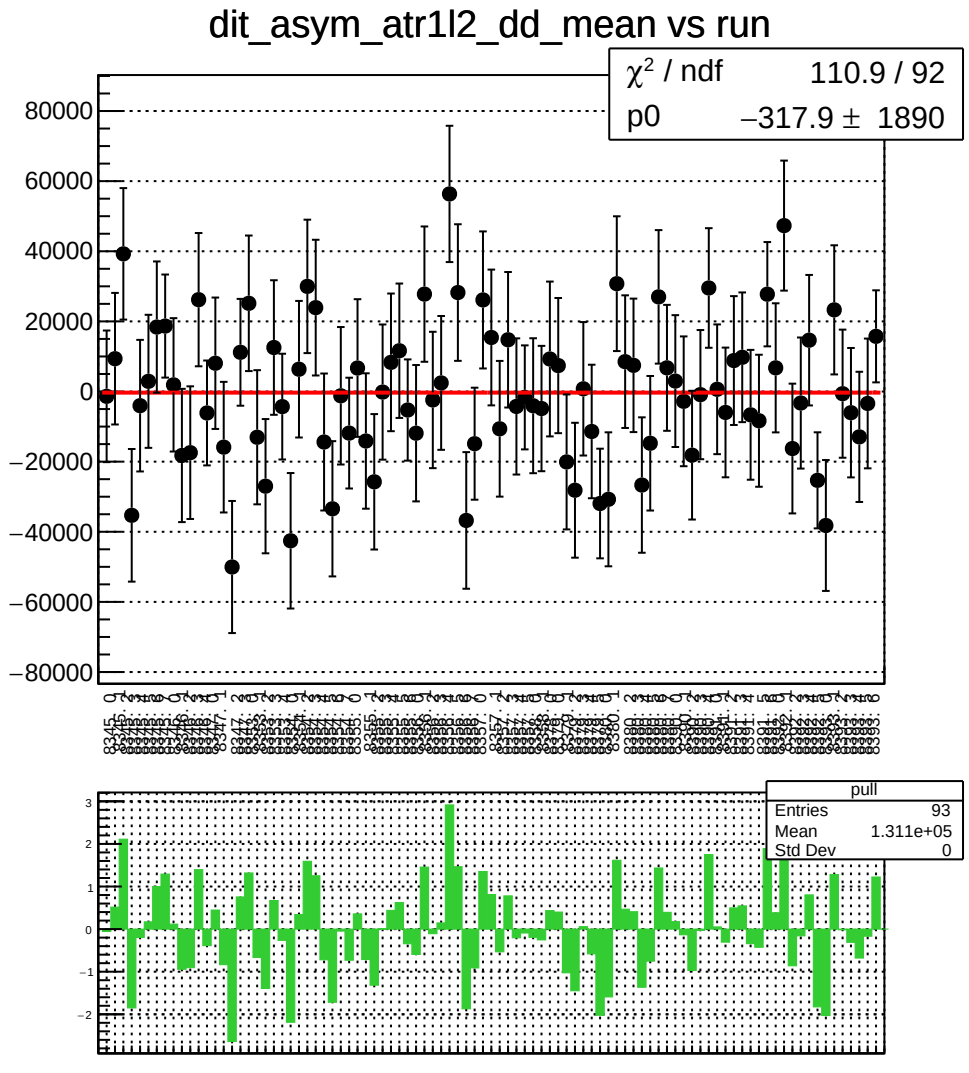

pull1D
Entries 93
Mean −0.0002646
Std Dev 1.092
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

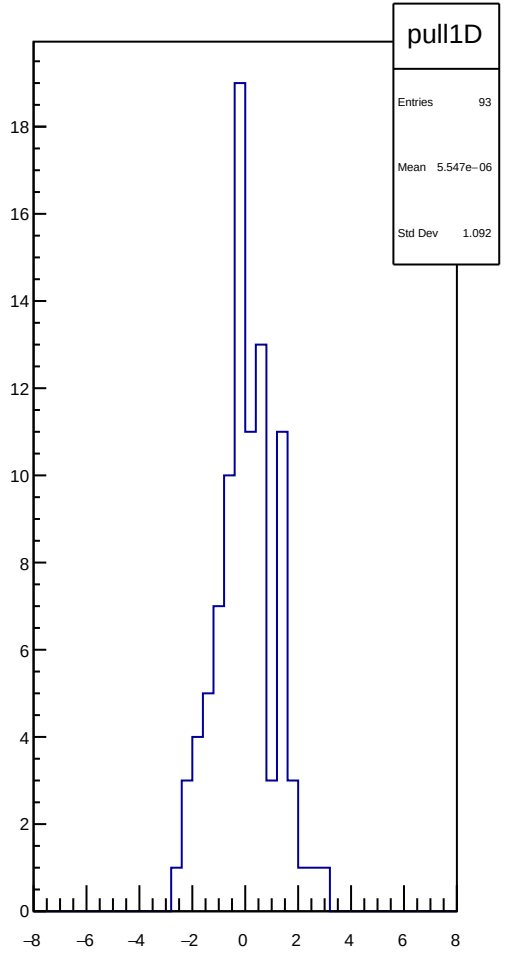

eigen_cor_asym_atr1l2_dd_rms vs run
χ² / ndf 743.3 / 92
p0 1799 ± 1.334
1880
1860
1840
1820
1800
1780
1760
1740
1720

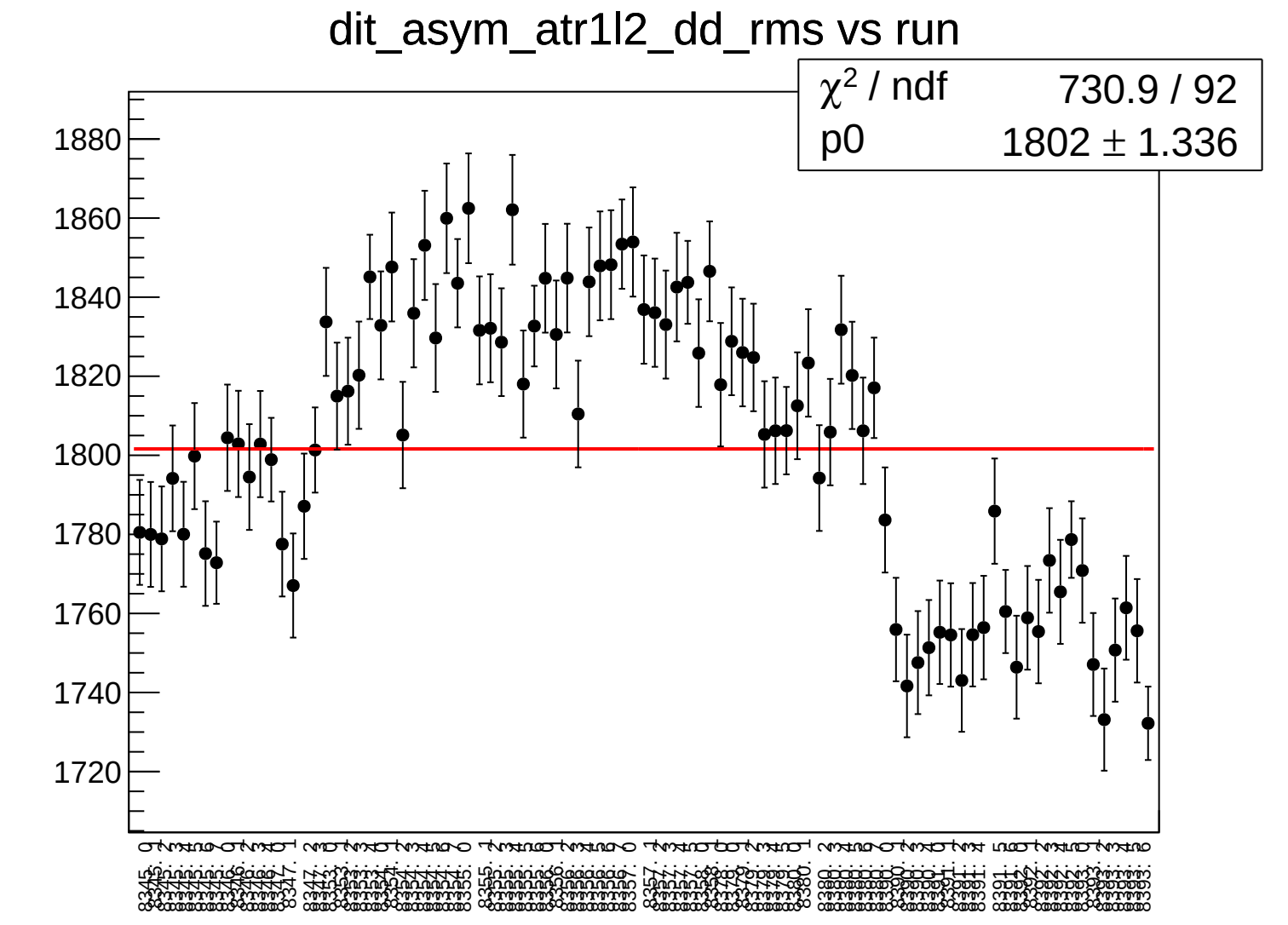

asym_atr1l2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 95.09 / 92
p0 −6395 ± 3822
100
50
0
−50
−100
−150
pull
Entries 93
Mean −333.8
Std Dev 0
2
1
0
−1
−2
−3

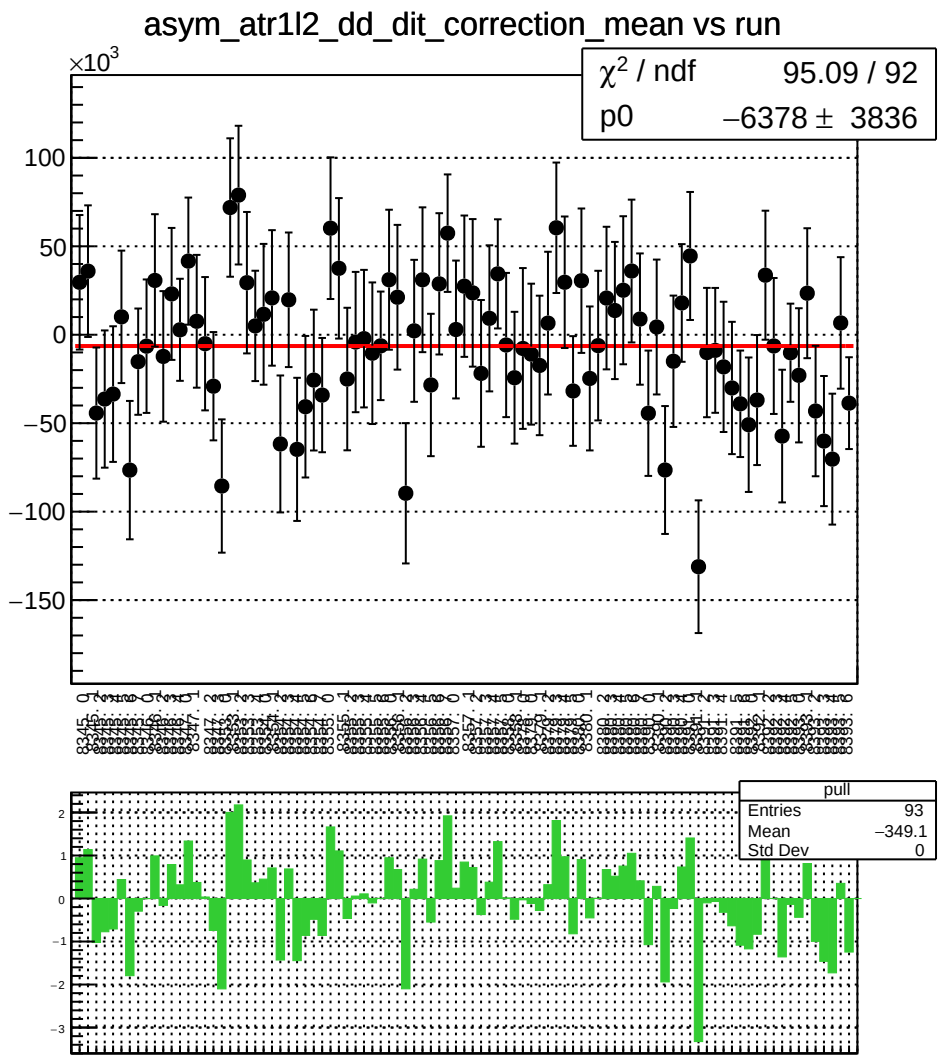

pull1D
Entries 93
Mean 0.01343
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

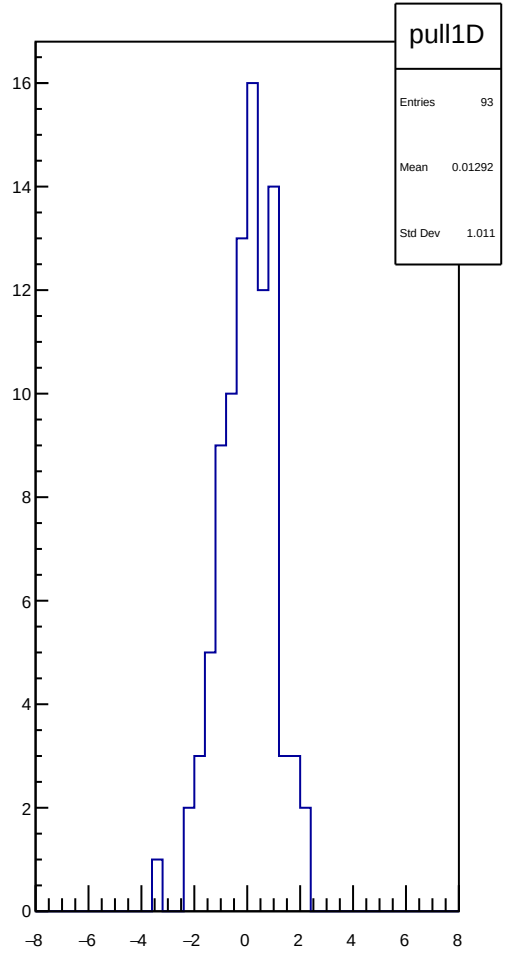

asym_atr1l2_dd_eigen_cor_correction_rms vs run
χ² / ndf 3095 / 92
p0 3642 ± 2.703
4000
3900
3800
3700
3600
3500
3400
3300

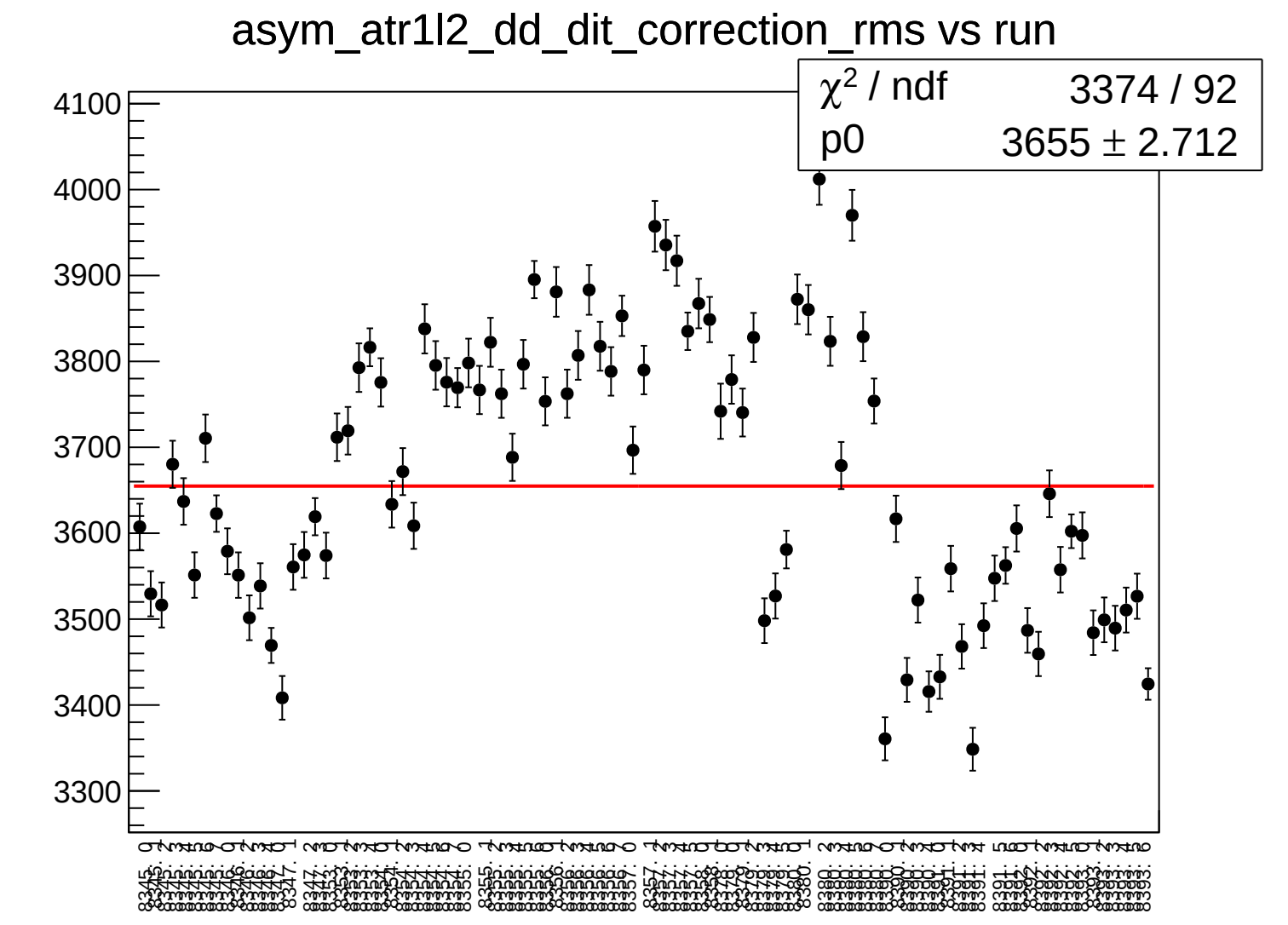

dit_asym_atr1l2_dd_mean vs run
χ² / ndf 110.9 / 92
p0 −317.9 ± 1890
pull
Entries 93
Mean 1.311e+05
Std Dev 0

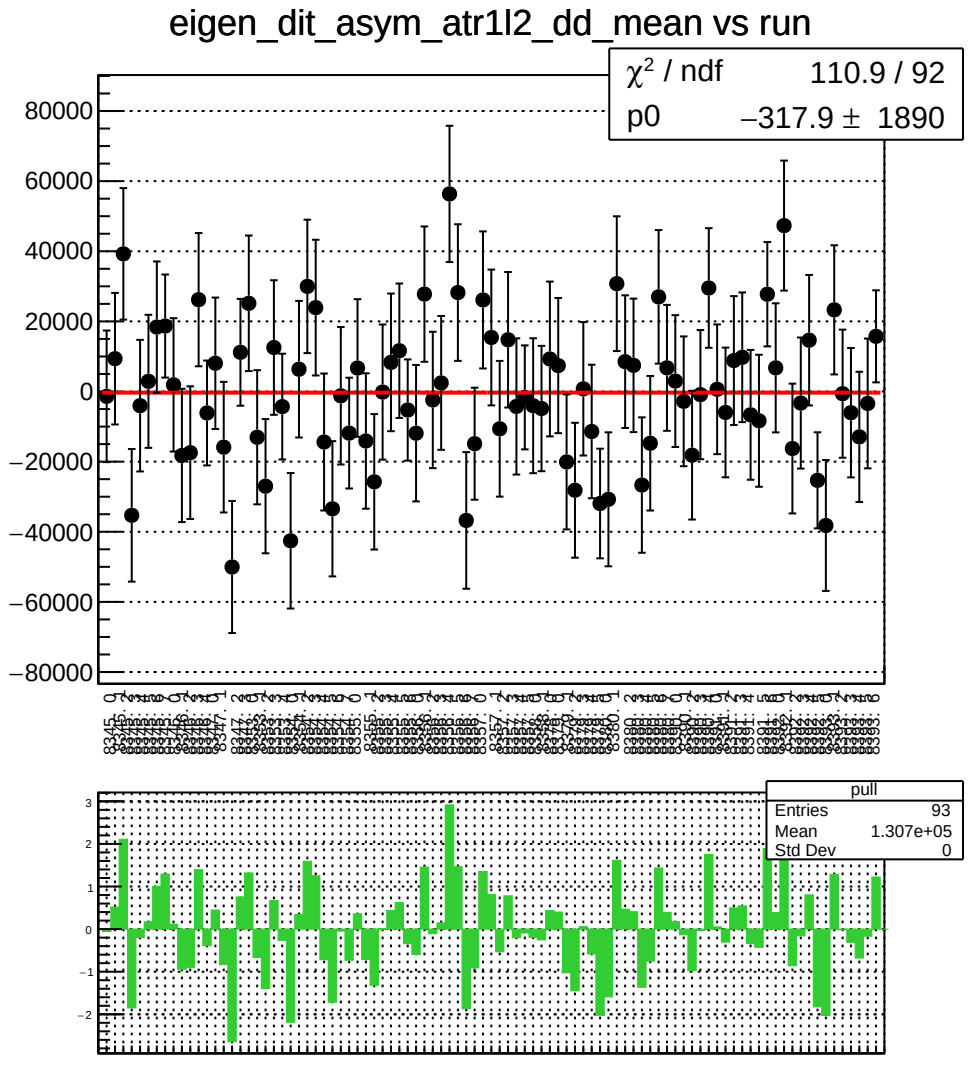

pull1D
Entries 93
Mean 5.547e−06
Std Dev 1.092

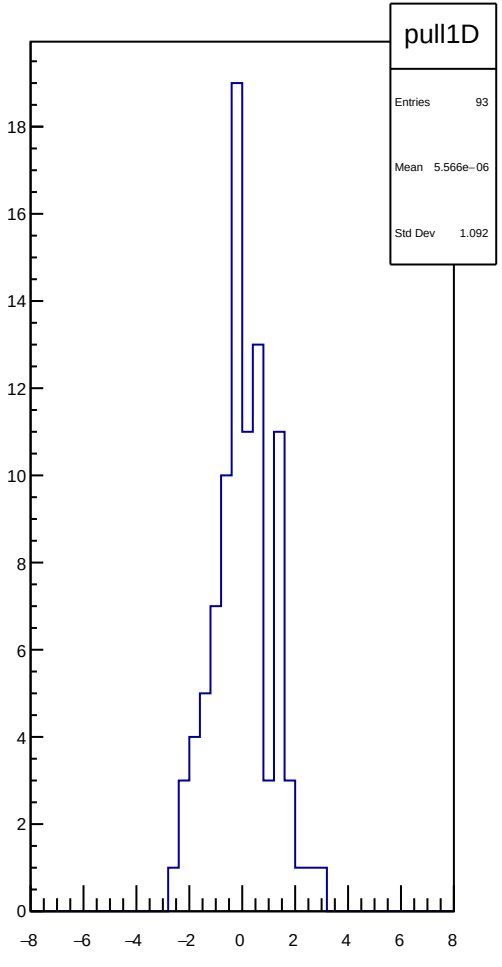

dit_asym_atr1l2_dd_rms vs run
χ² / ndf 730.9 / 92
p0 1802 ± 1.336
1880
1860
1840
1820
1800
1780
1760
1740
1720

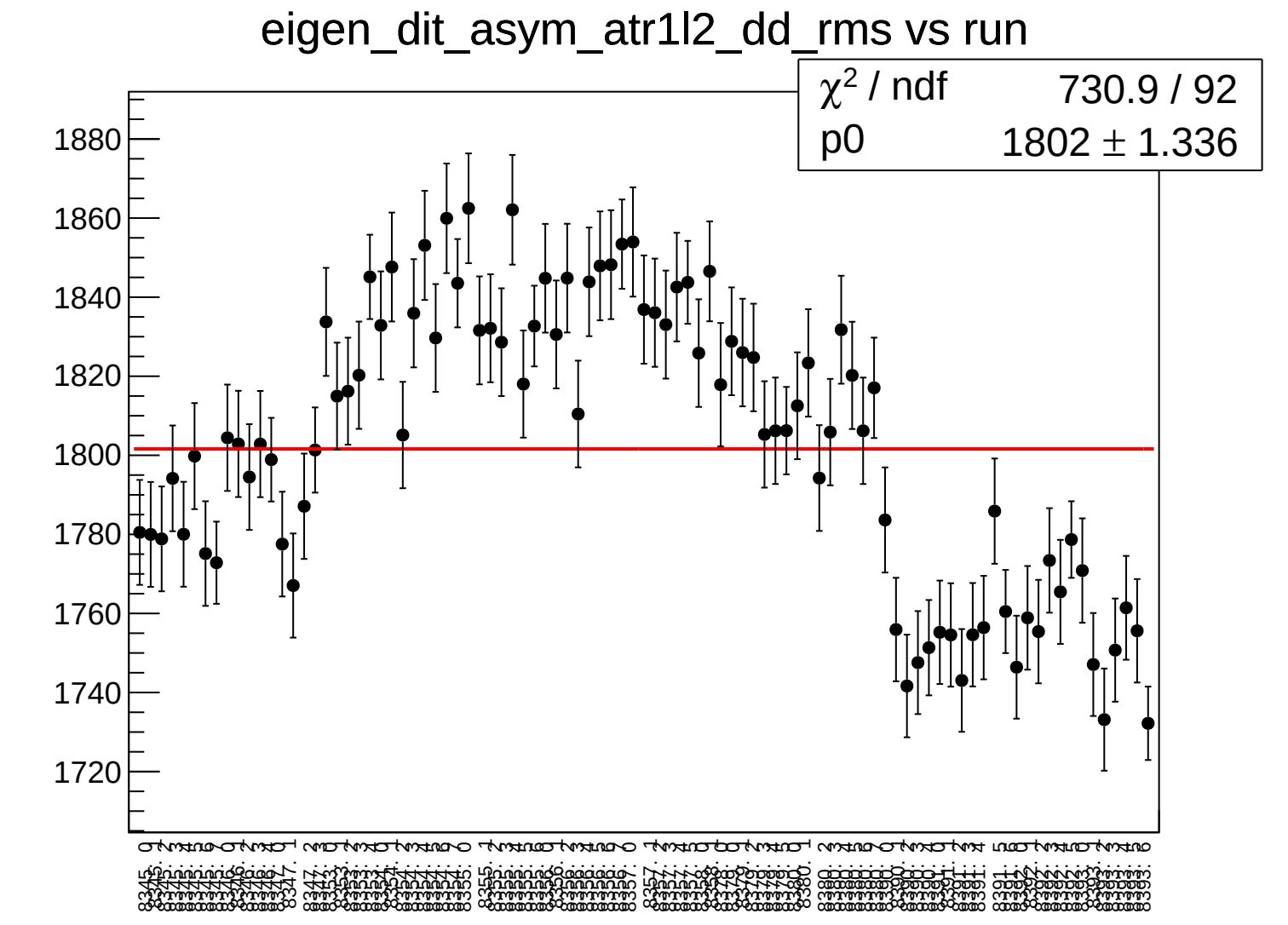

asym_atr1l2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 95.09 / 92
p0 −6378 ± 3836
100
50
0
−50
−100
−150
pull
Entries 93
Mean −349.1
Std Dev 0
2
1
0
−1
−2
−3

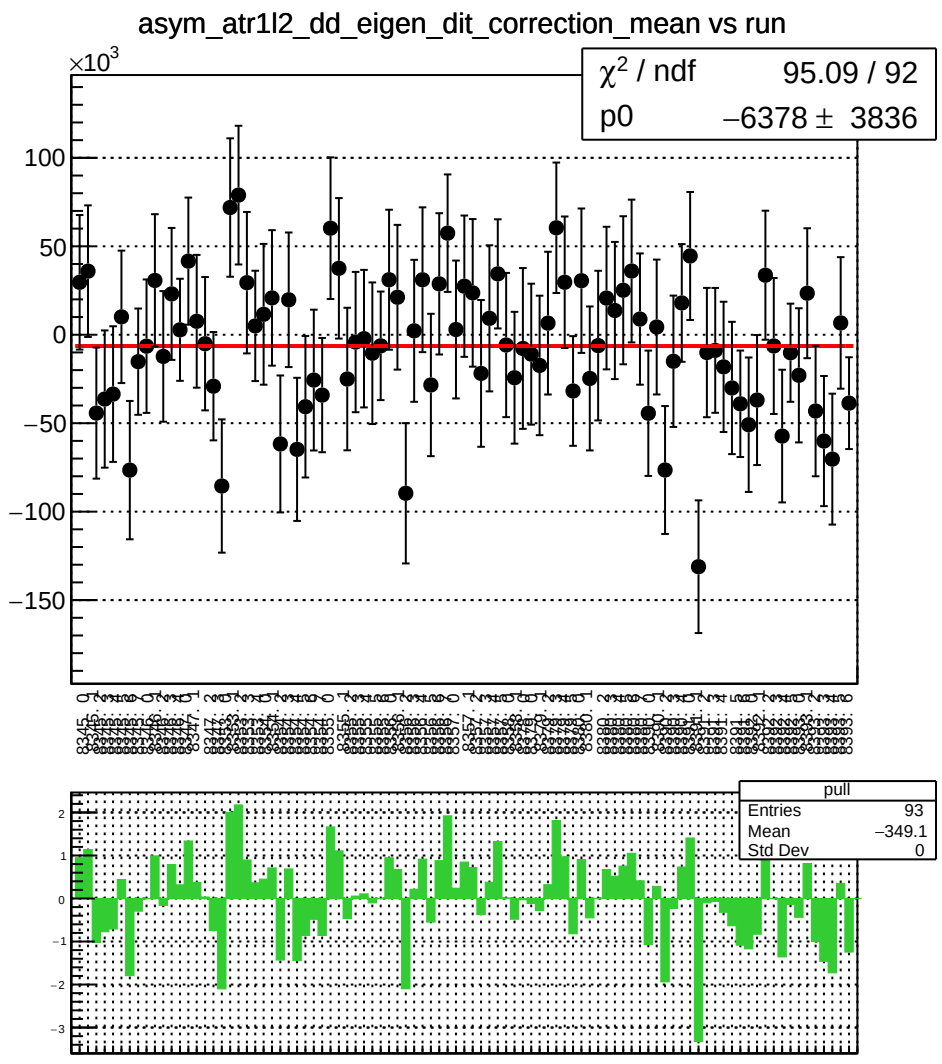

pull1D
Entries 93
Mean 0.01292
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

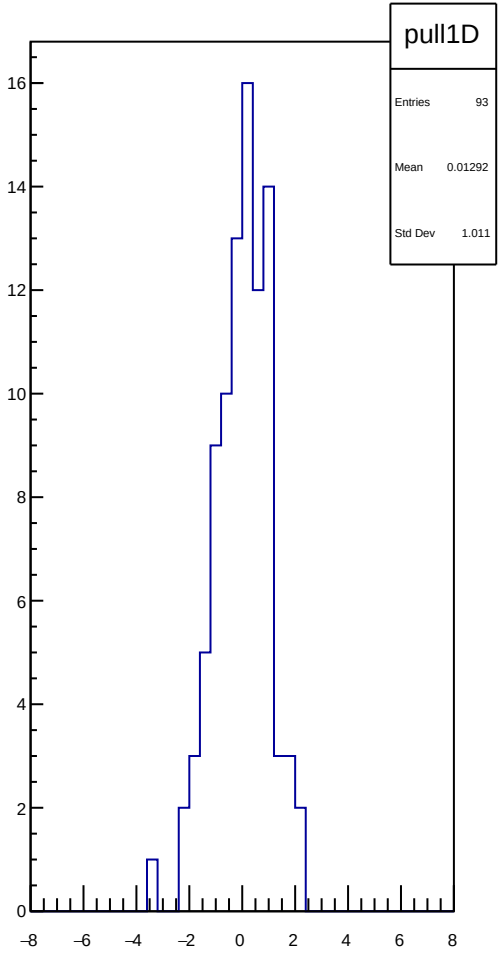

asym_atr1l2_dd_dit_correction_rms vs run
χ² / ndf 3374 / 92
p0 3655 ± 2.712
4100
4000
3900
3800
3700
3600
3500
3400
3300

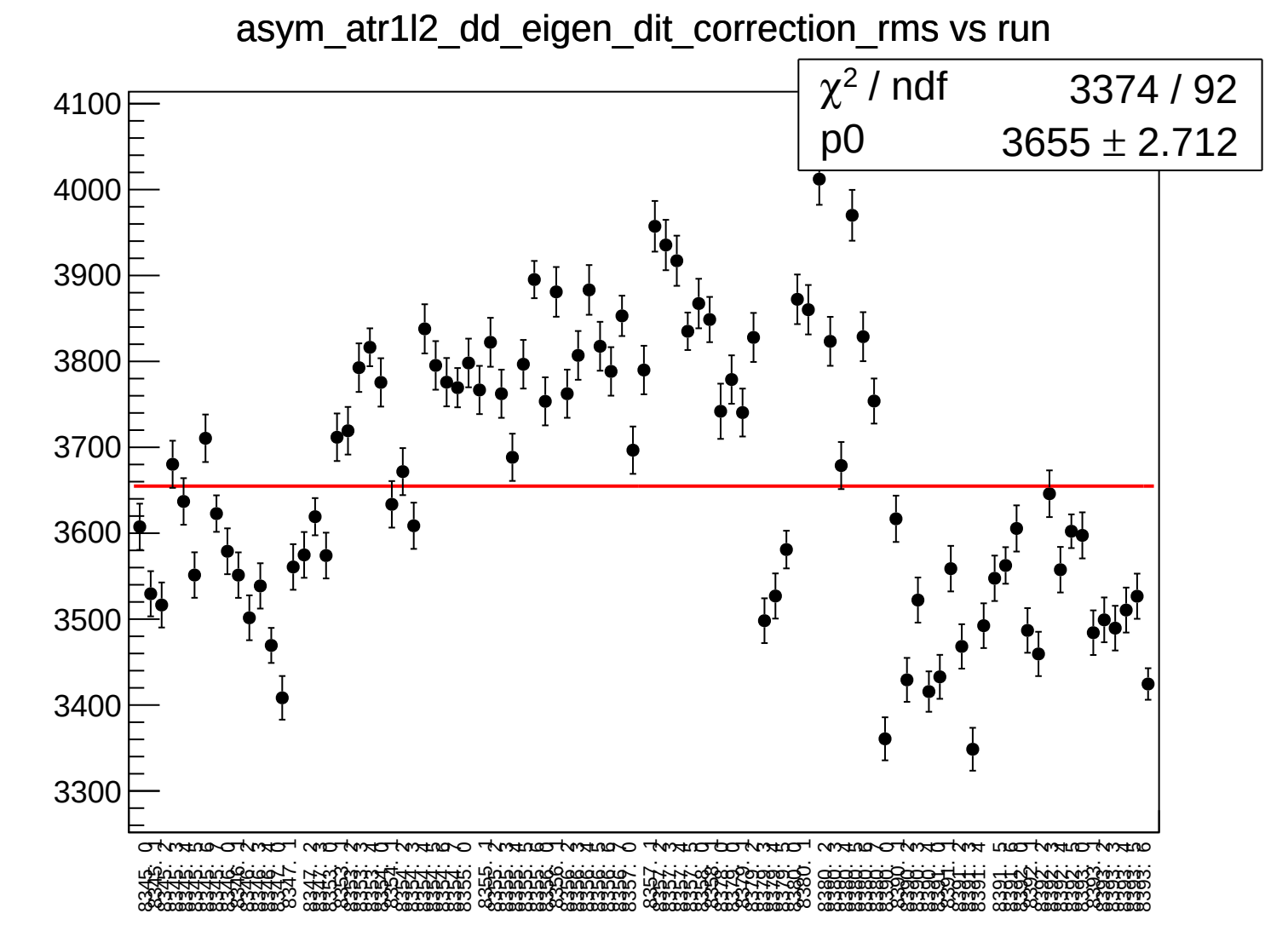

eigen_dit_asym_atr1l2_dd_mean vs run
χ² / ndf 110.9 / 92
p0 −317.9 ± 1890
pull
Entries 93
Mean 1.307e+05
Std Dev 0

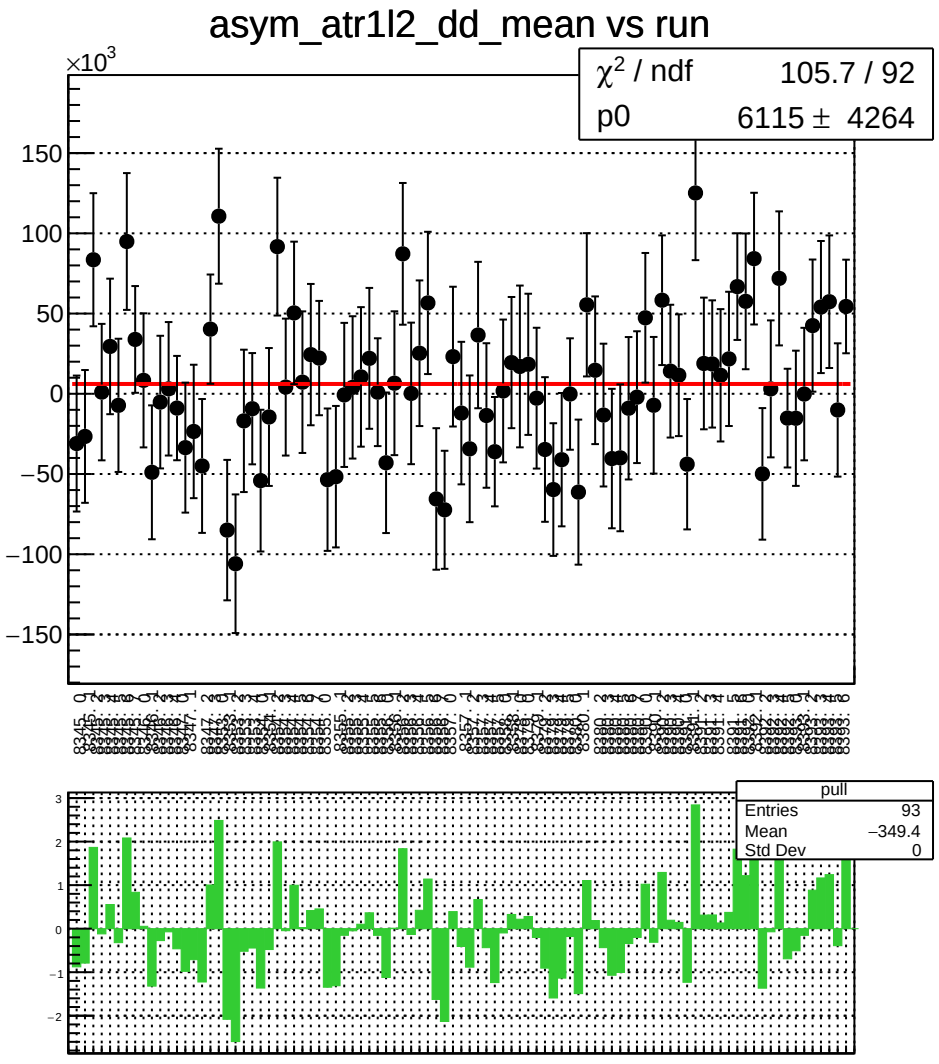

pull1D
Entries 93
Mean 5.566e−06
Std Dev 1.092

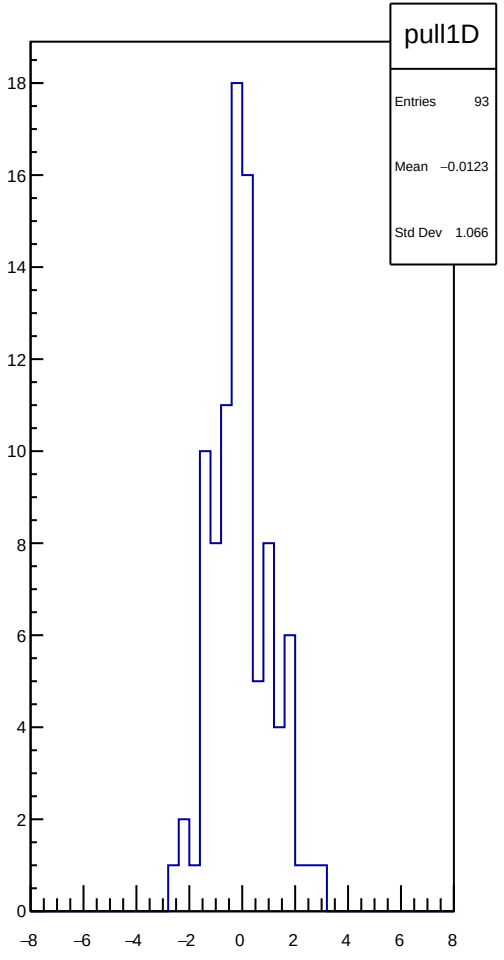

eigen_dit_asym_atr1l2_dd_rms vs run
χ² / ndf 730.9 / 92
p0 1802 ± 1.336
1880
1860
1840
1820
1800
1780
1760
1740
1720

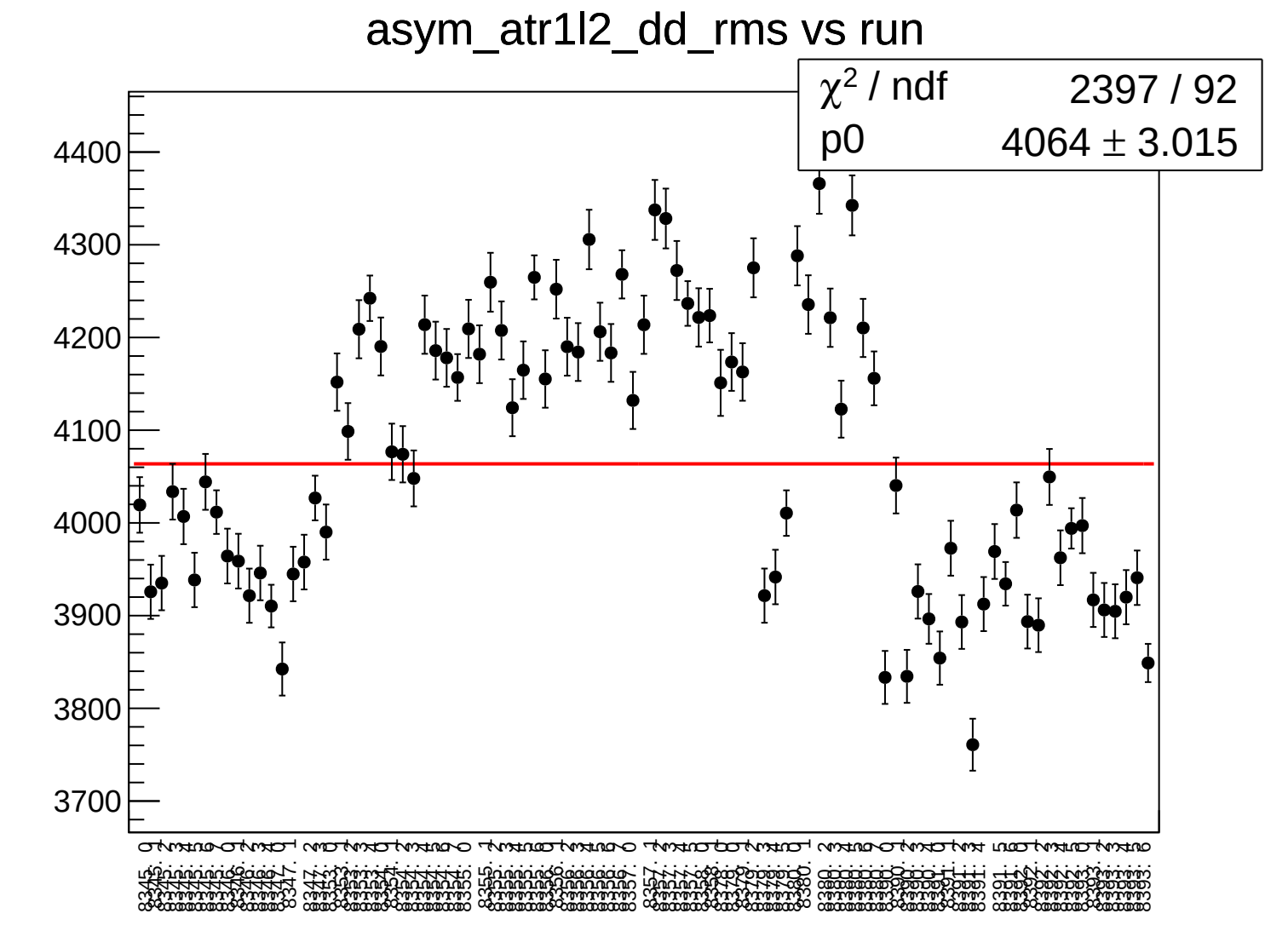

asym_atr1l2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 95.09 / 92
p0 −6378 ± 3836
100
50
0
−50
−100
−150
pull
Entries 93
Mean −349.1
Std Dev 0
2
1
0
−1
−2
−3

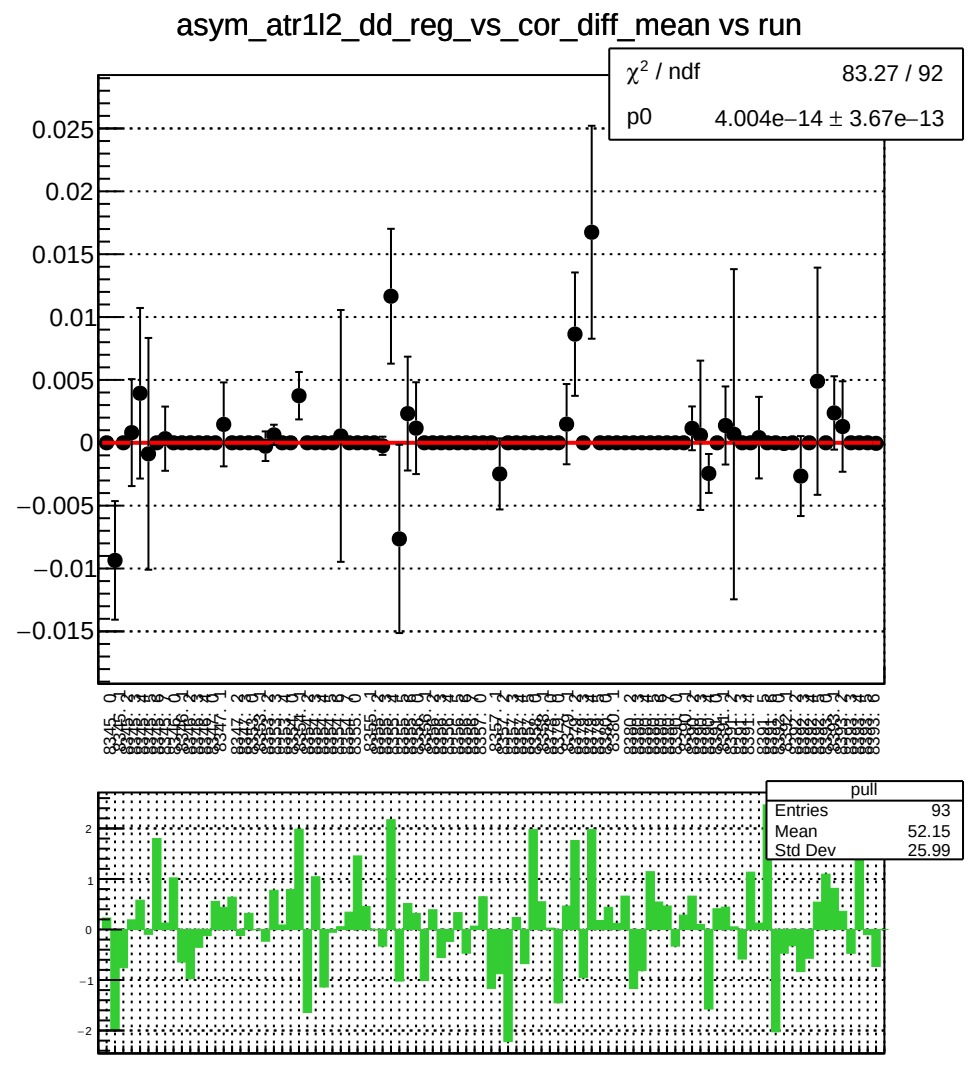

pull1D
Entries 93
Mean 0.01292
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

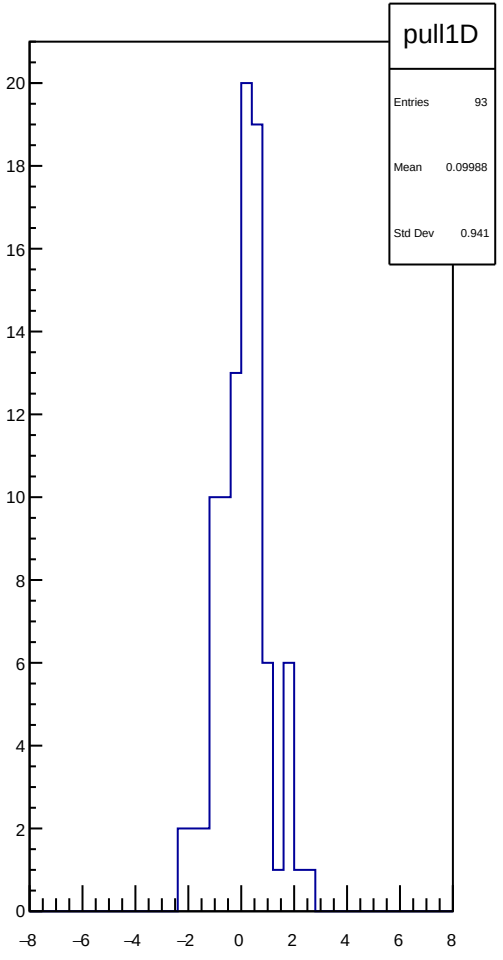

asym_atr1l2_dd_eigen_dit_correction_rms vs run
χ² / ndf 3374 / 92
p0 3655 ± 2.712
4100
4000
3900
3800
3700
3600
3500
3400
3300

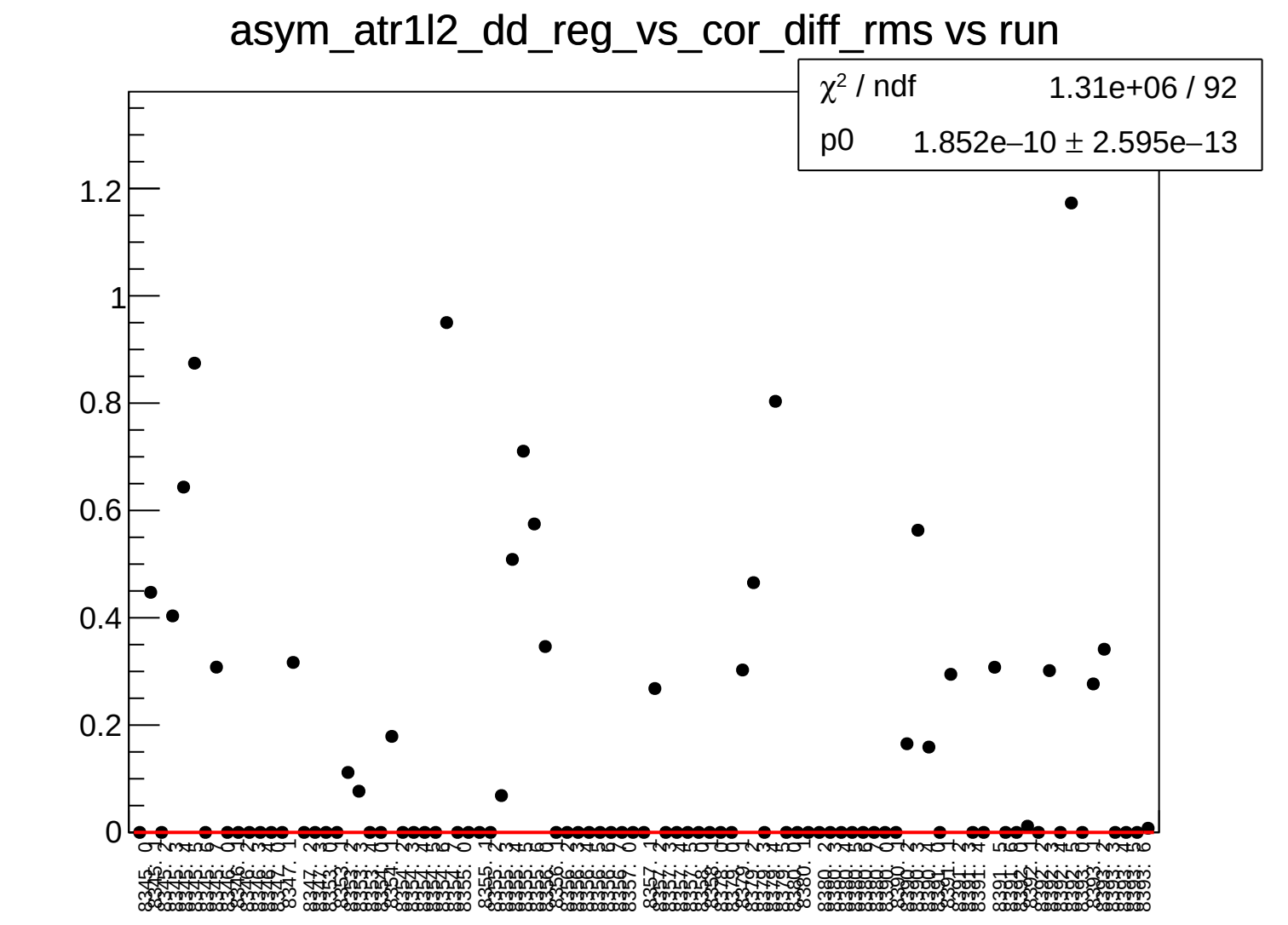

asym_atr1l2_dd_mean vs run
×10^3
χ^2 / ndf 105.7 / 92
p0 6115 ± 4264
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean −349.4
Std Dev 0
3
2
1
0
−1
−2

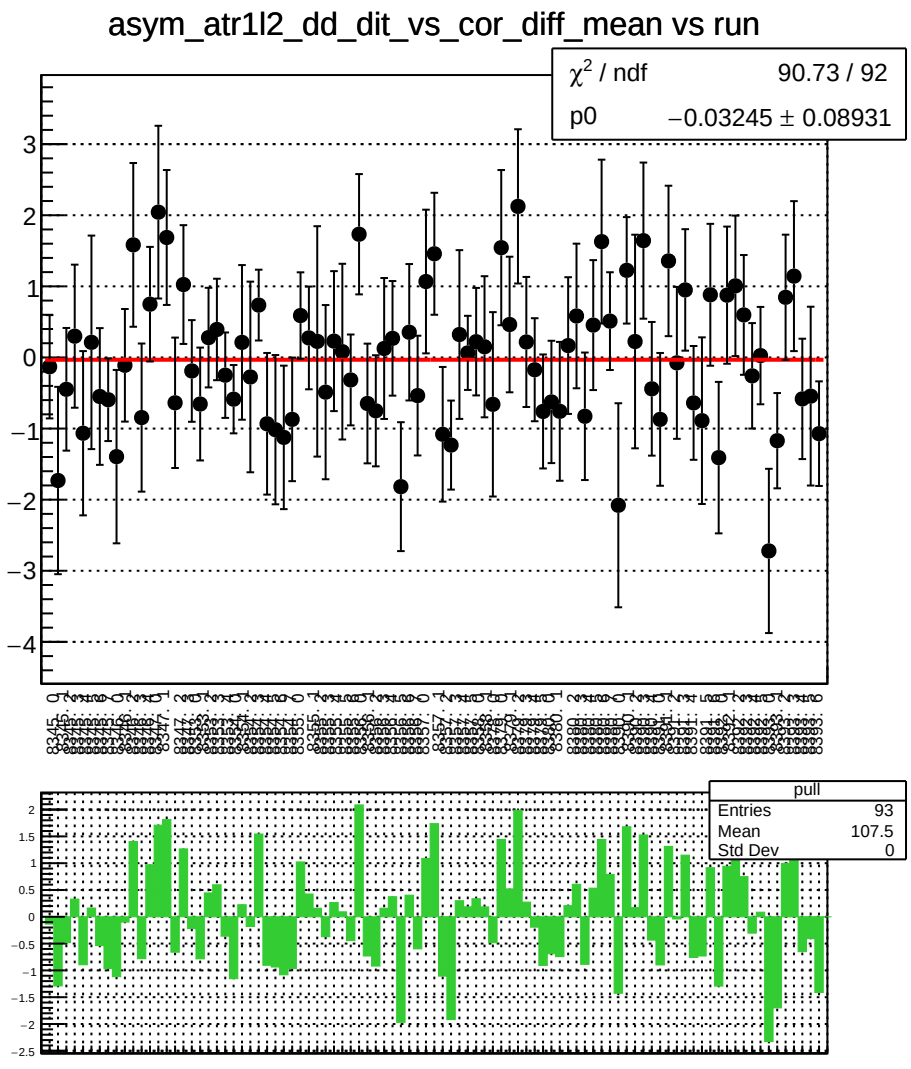

pull1D
Entries 93
Mean −0.0123
Std Dev 1.066
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

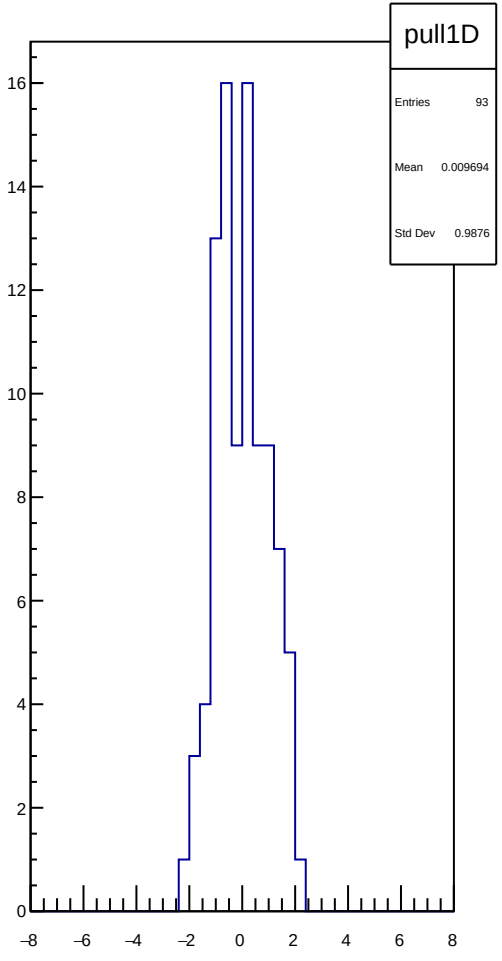

asym_atr1l2_dd_rms vs run
χ^2 / ndf 2397 / 92
p0 4064 ± 3.015
4400
4300
4200
4100
4000
3900
3800
3700

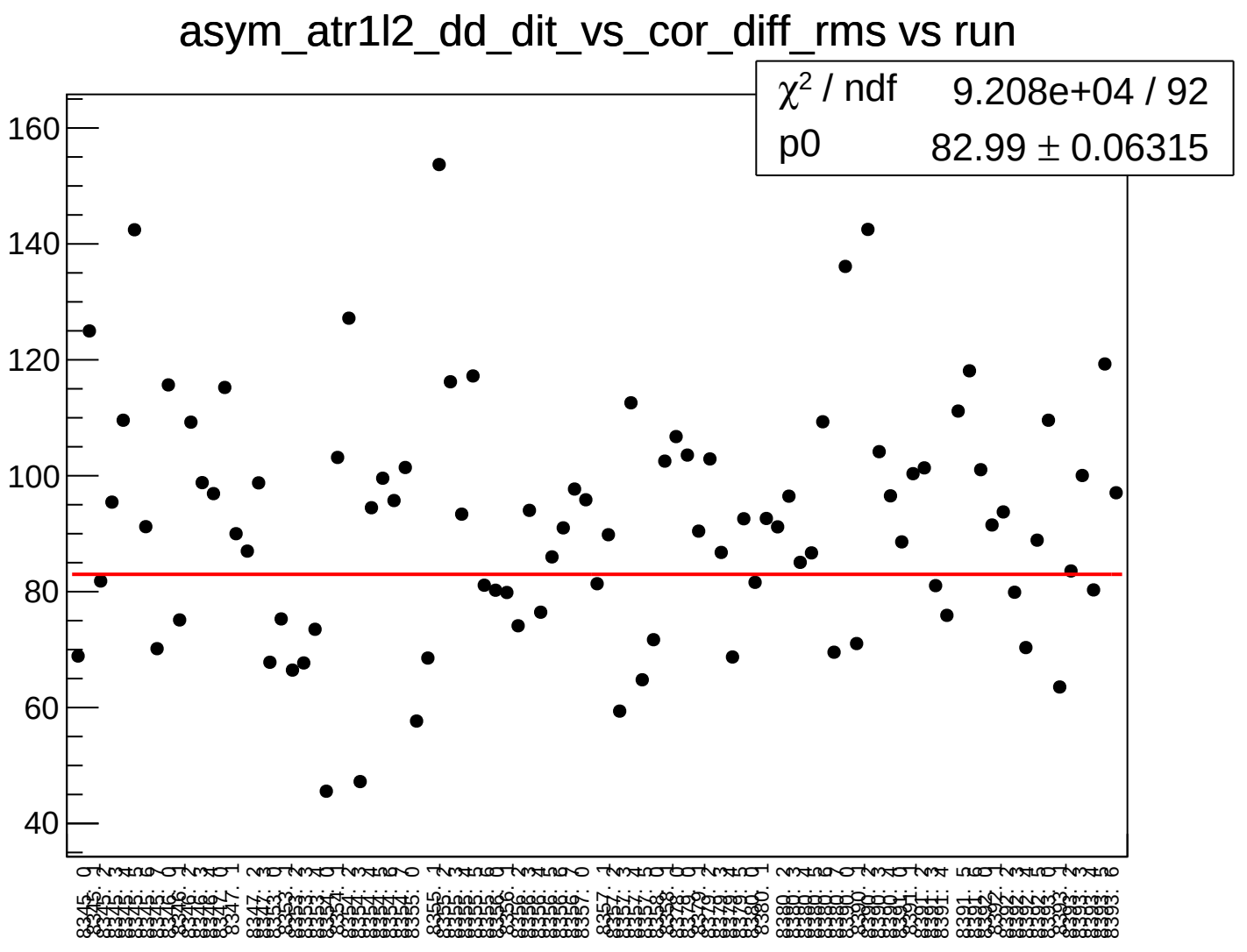

asym_atr1l2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 83.27 / 92
p0 4.004e−14 ± 3.67e−13
pull
Entries 93
Mean 52.15
Std Dev 25.99

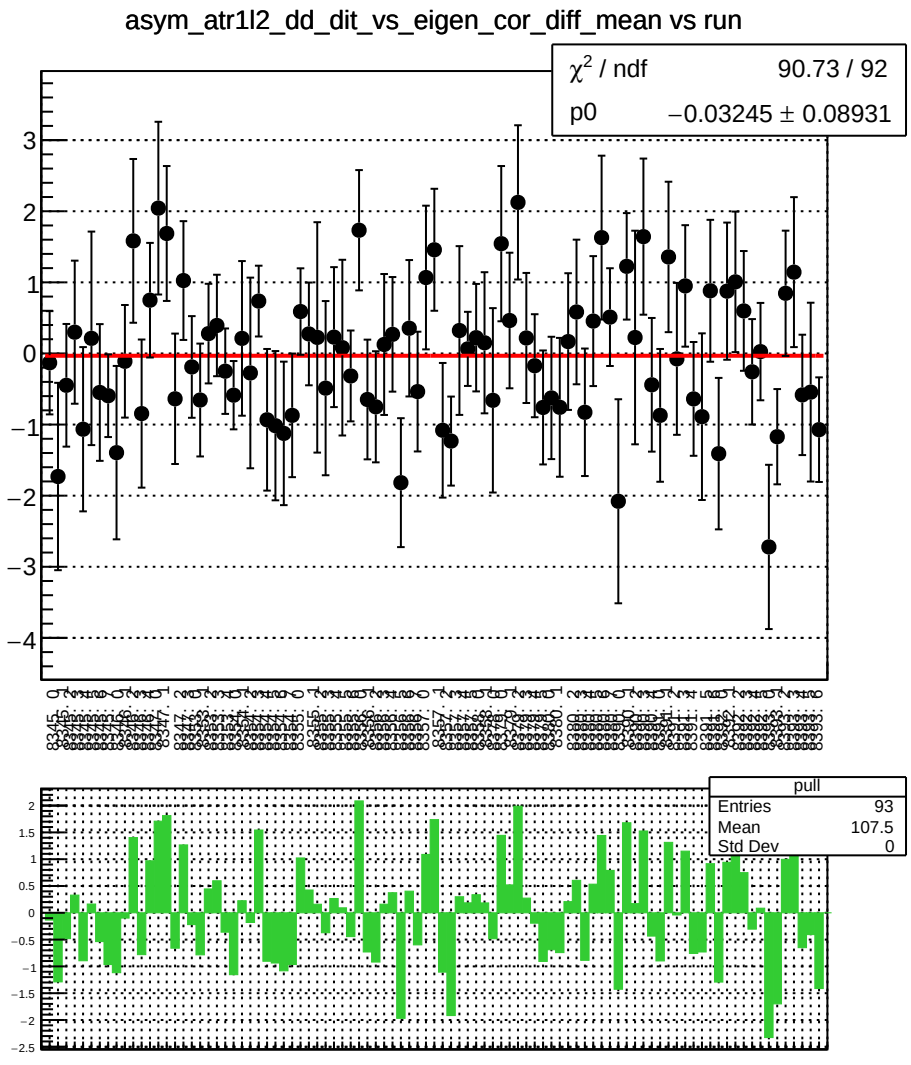

pull1D
Entries 93
Mean 0.09988
Std Dev 0.941

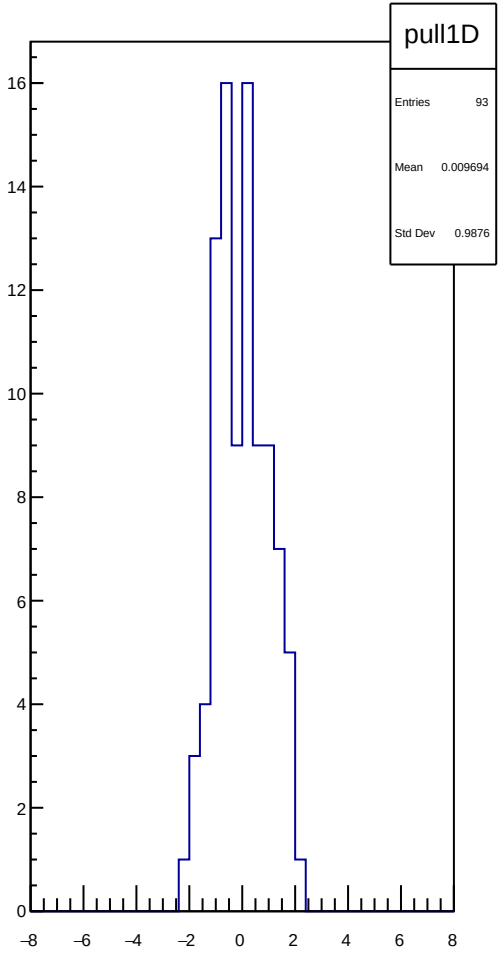

asym_atr1l2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.31e+06 / 92
p0 1.852e−10 ± 2.595e−13
1.2
1
0.8
0.6
0.4
0.2
0

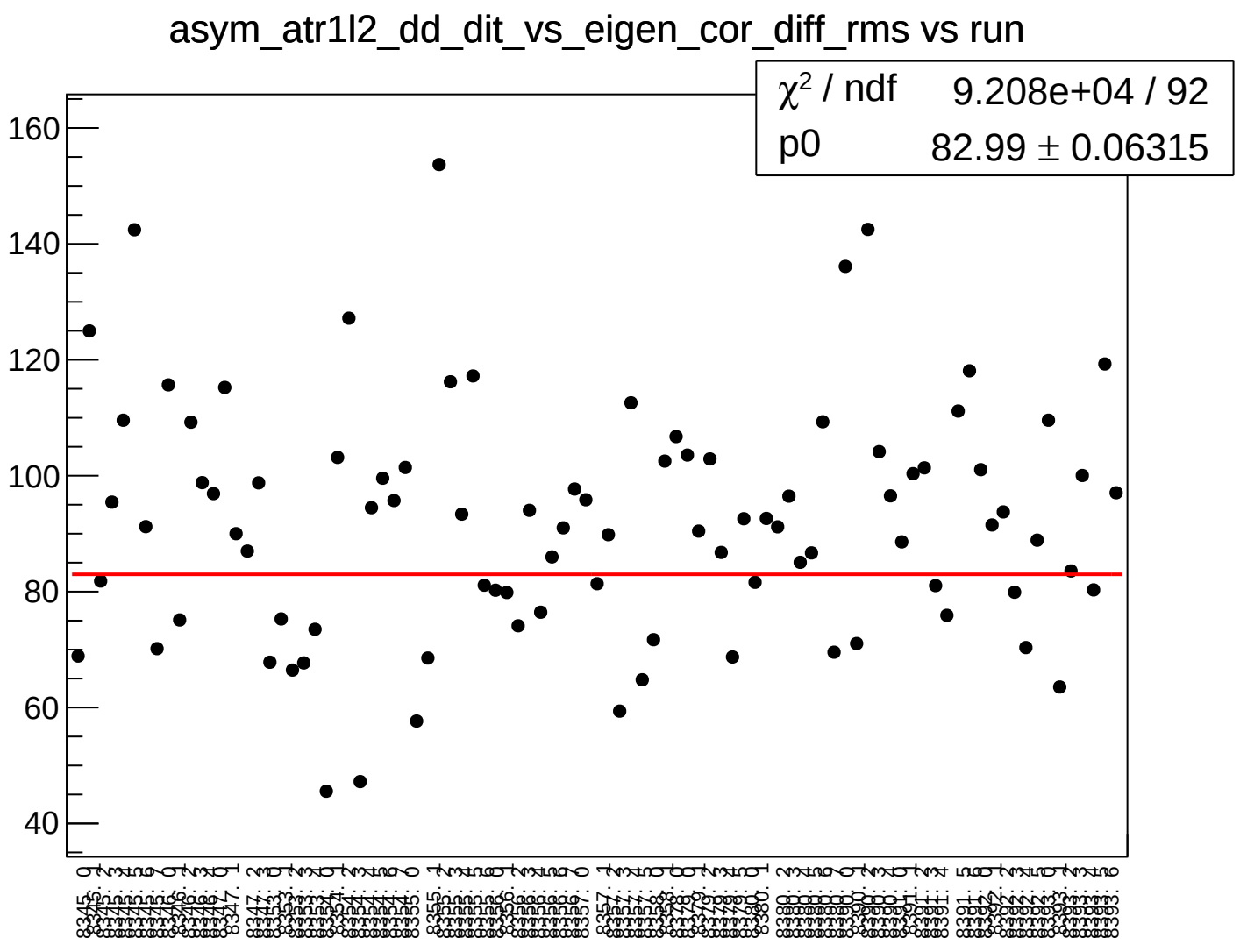

asym_atr1l2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 90.73 / 92
p0 −0.03245 ± 0.08931
pull
Entries 93
Mean 107.5
Std Dev 0

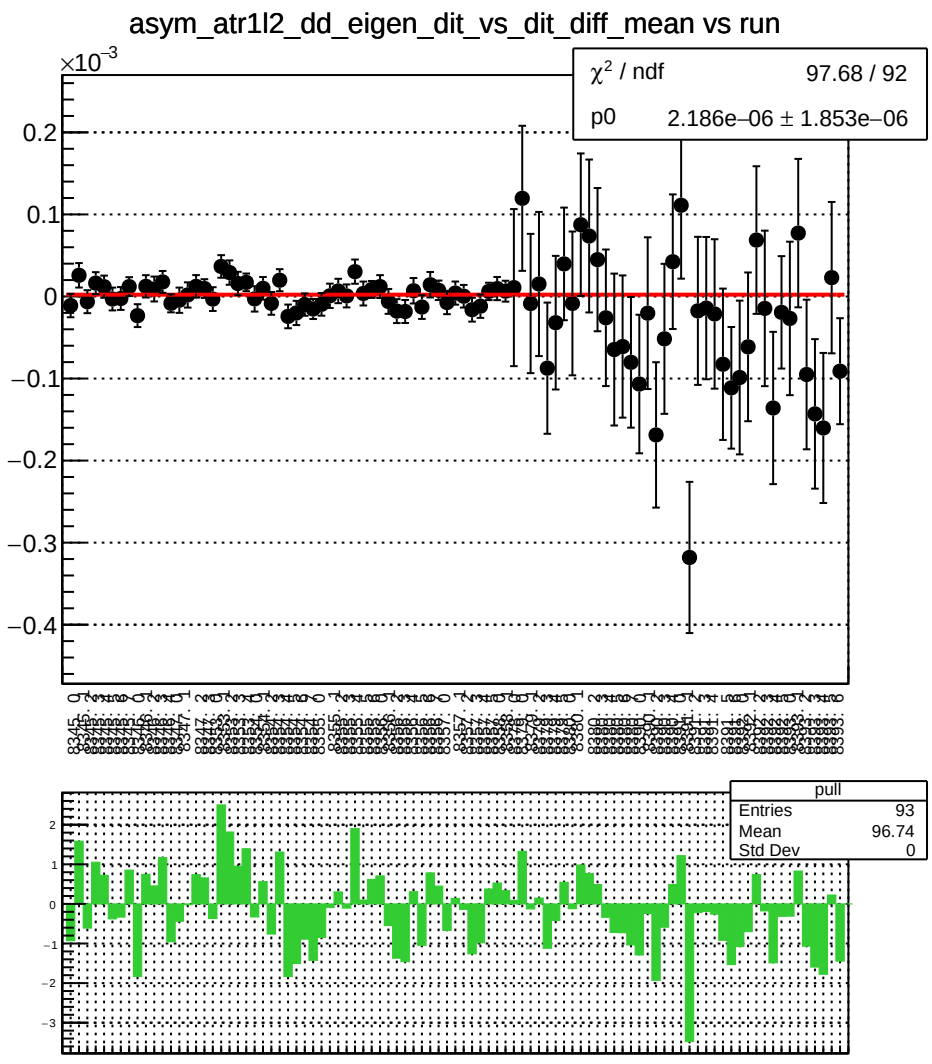

pull1D
Entries 93
Mean 0.009694
Std Dev 0.9876

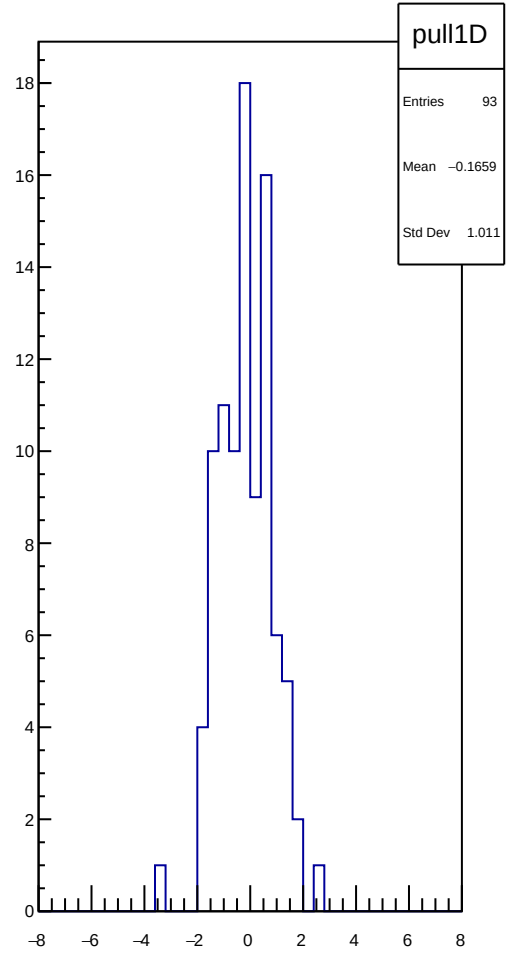

asym_atr1l2_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9.208e+04 / 92
p0 82.99 ± 0.06315
160
140
120
100
80
60
40

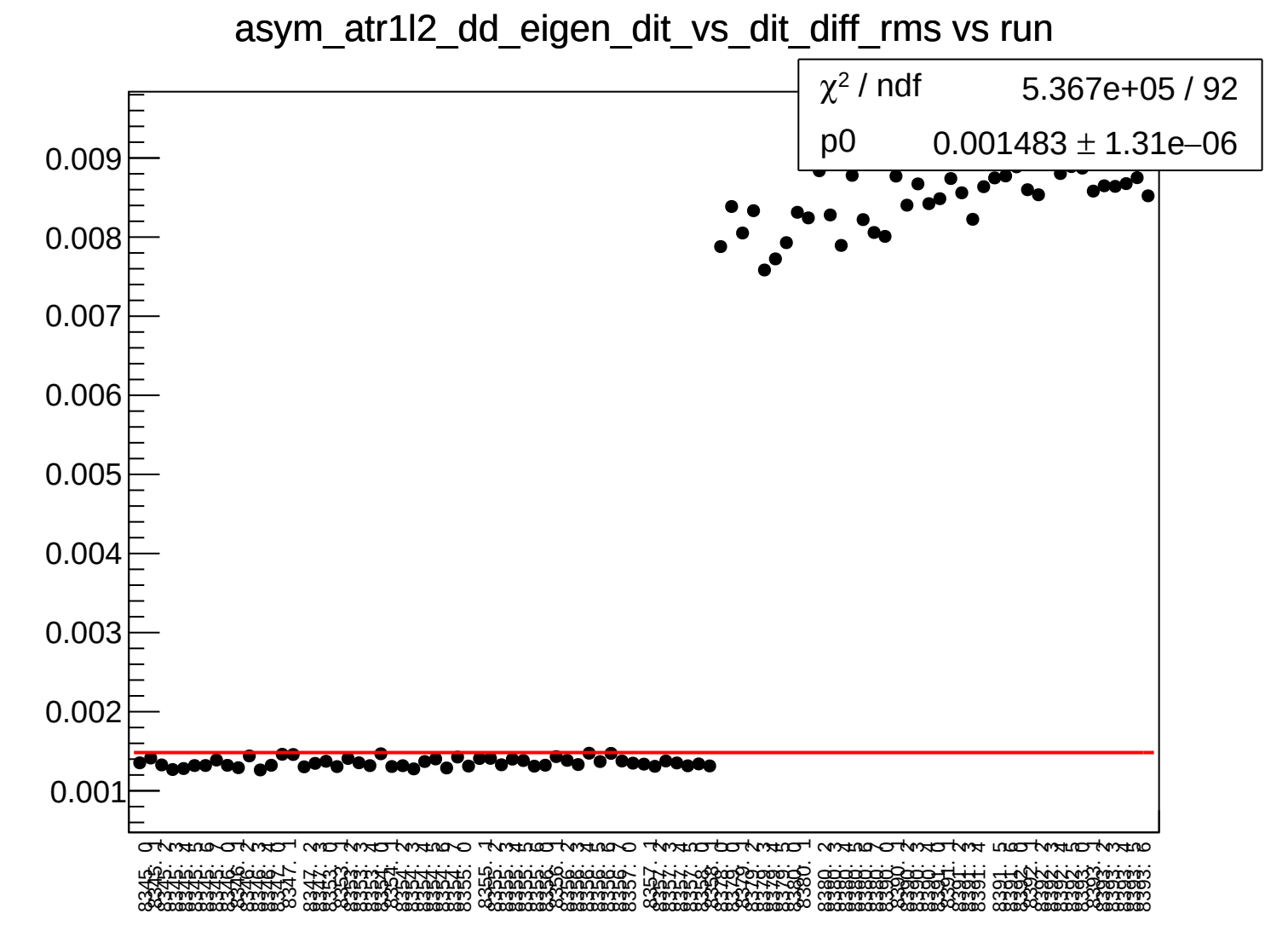

asym_atr1l2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.73 / 92
p0 −0.03245 ± 0.08931
pull
Entries 93
Mean 107.5
Std Dev 0

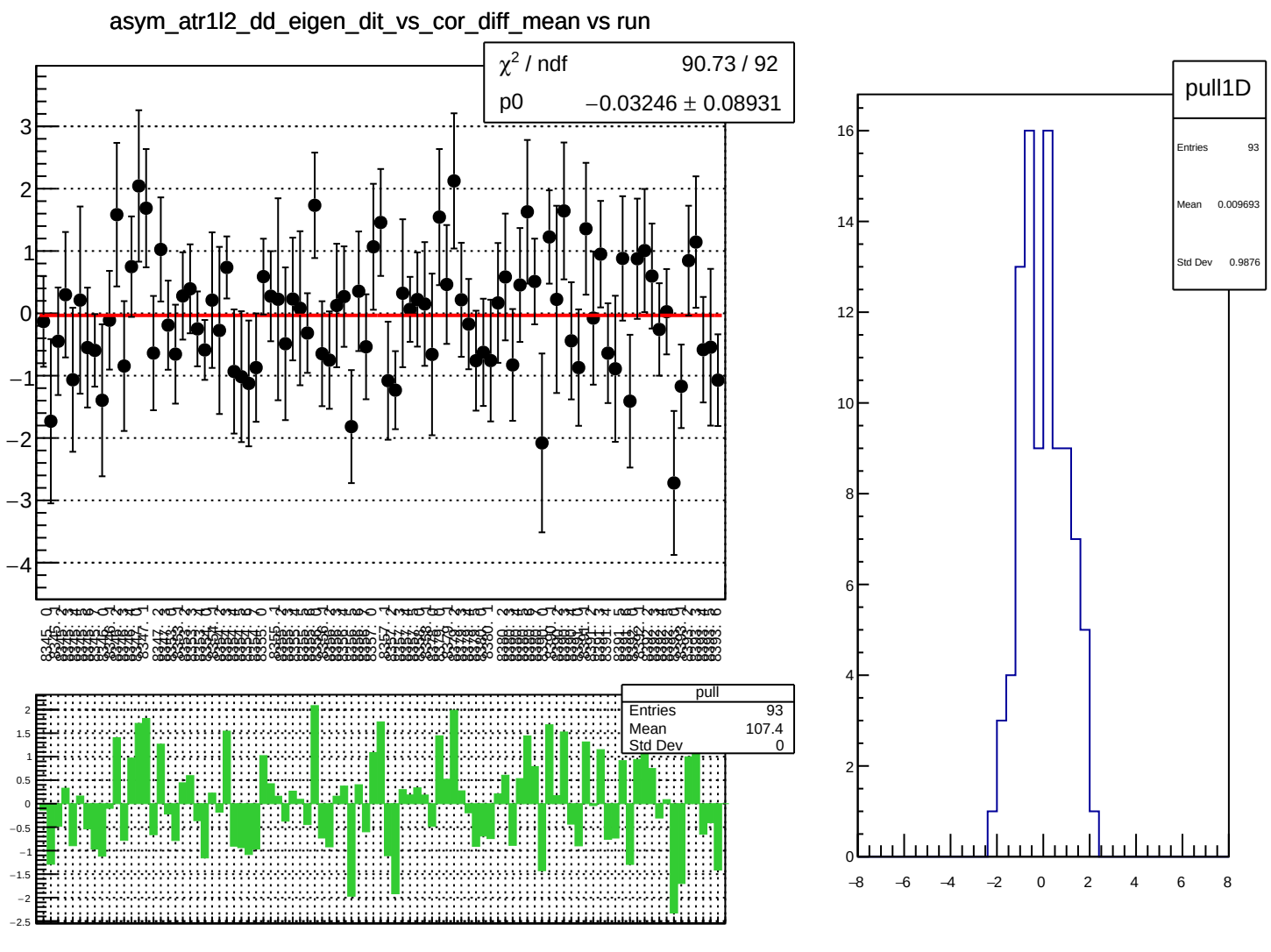

pull1D
Entries 93
Mean 0.009694
Std Dev 0.9876

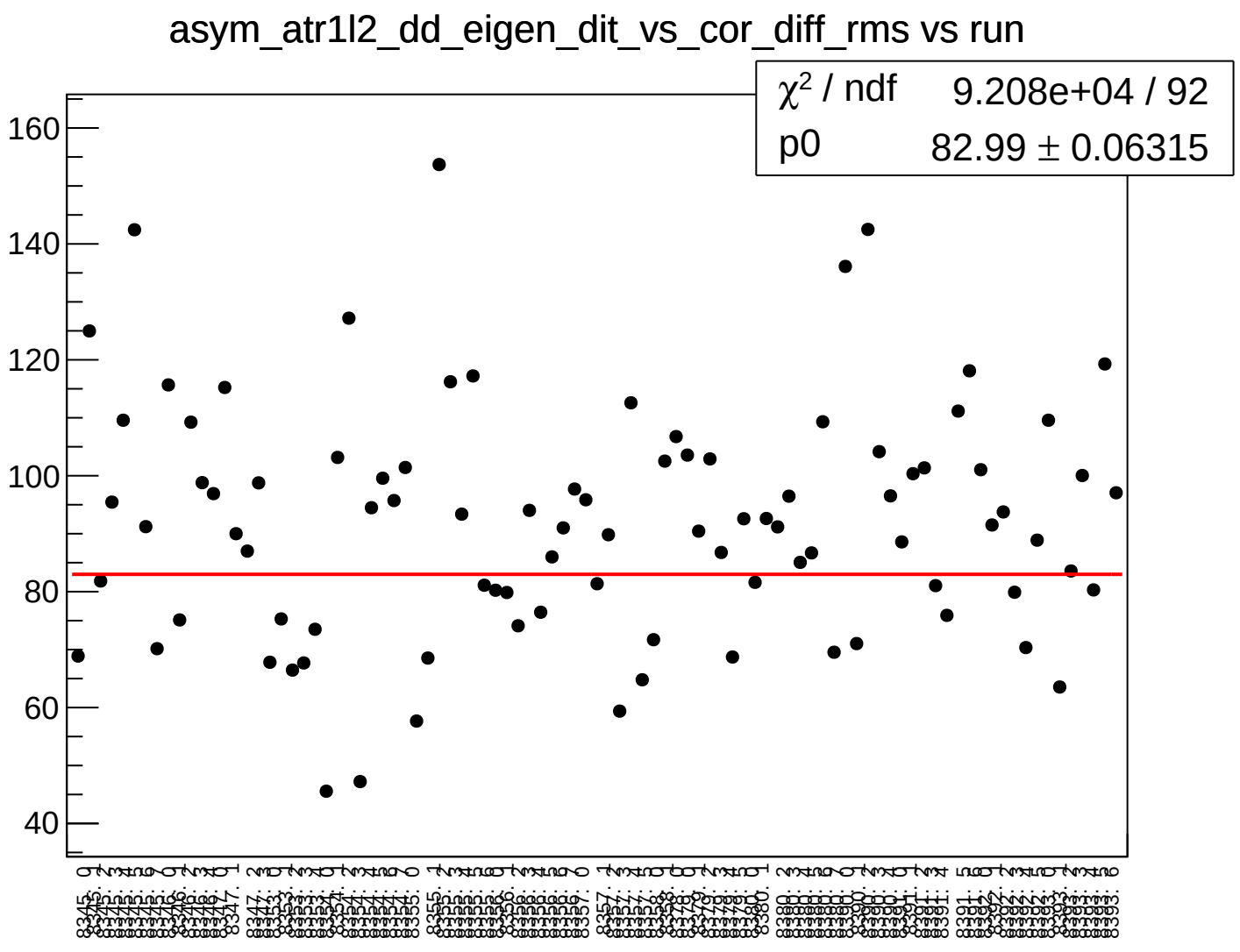

asym_atr1l2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.208e+04 / 92
p0 82.99 ± 0.06315
160
140
120
100
80
60
40

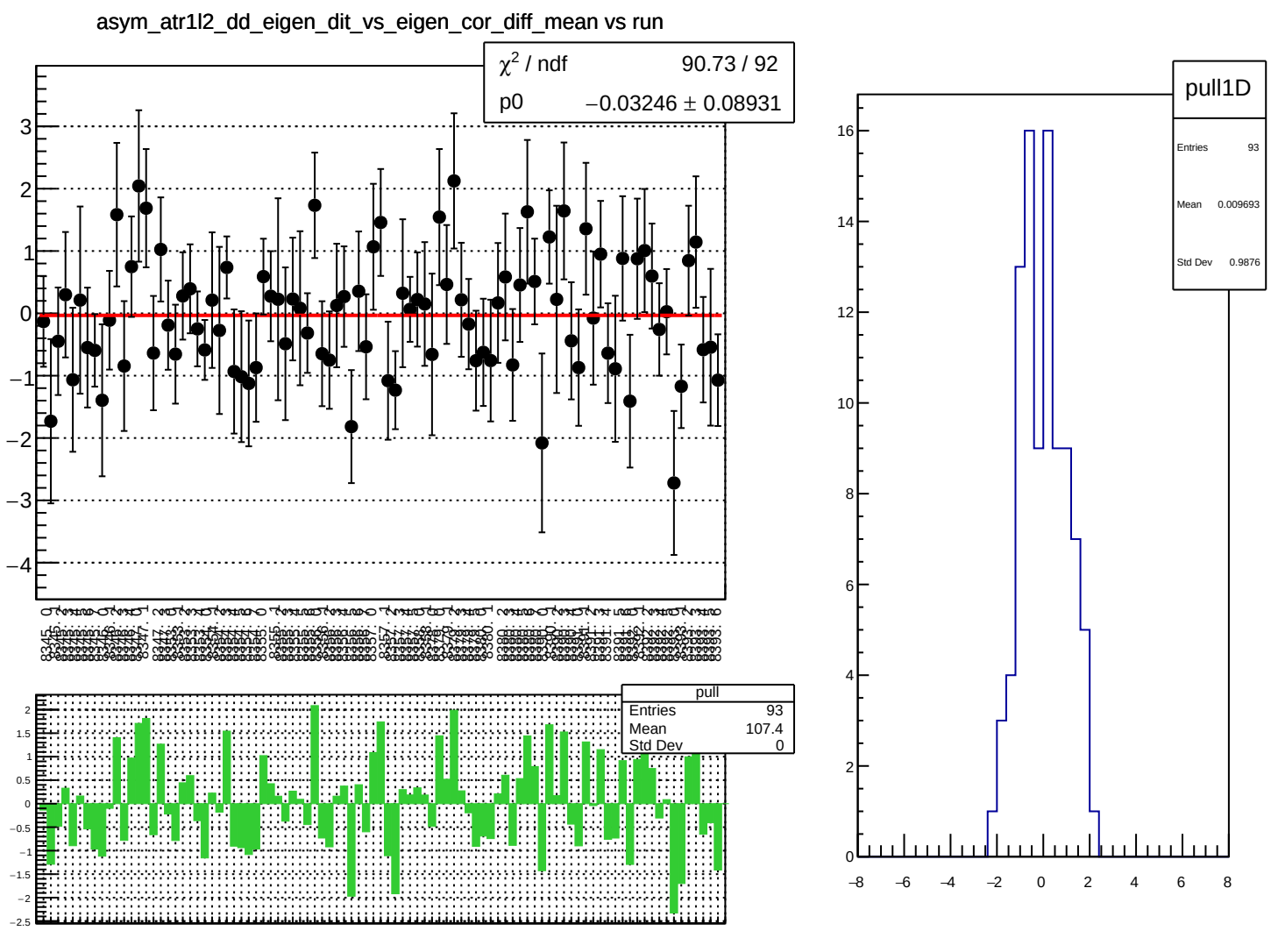

asym_atr1l2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.68 / 92
p0 2.186e−06 ± 1.853e−06
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull
Entries 93
Mean 96.74
Std Dev 0
2
1
0
−1
−2
−3

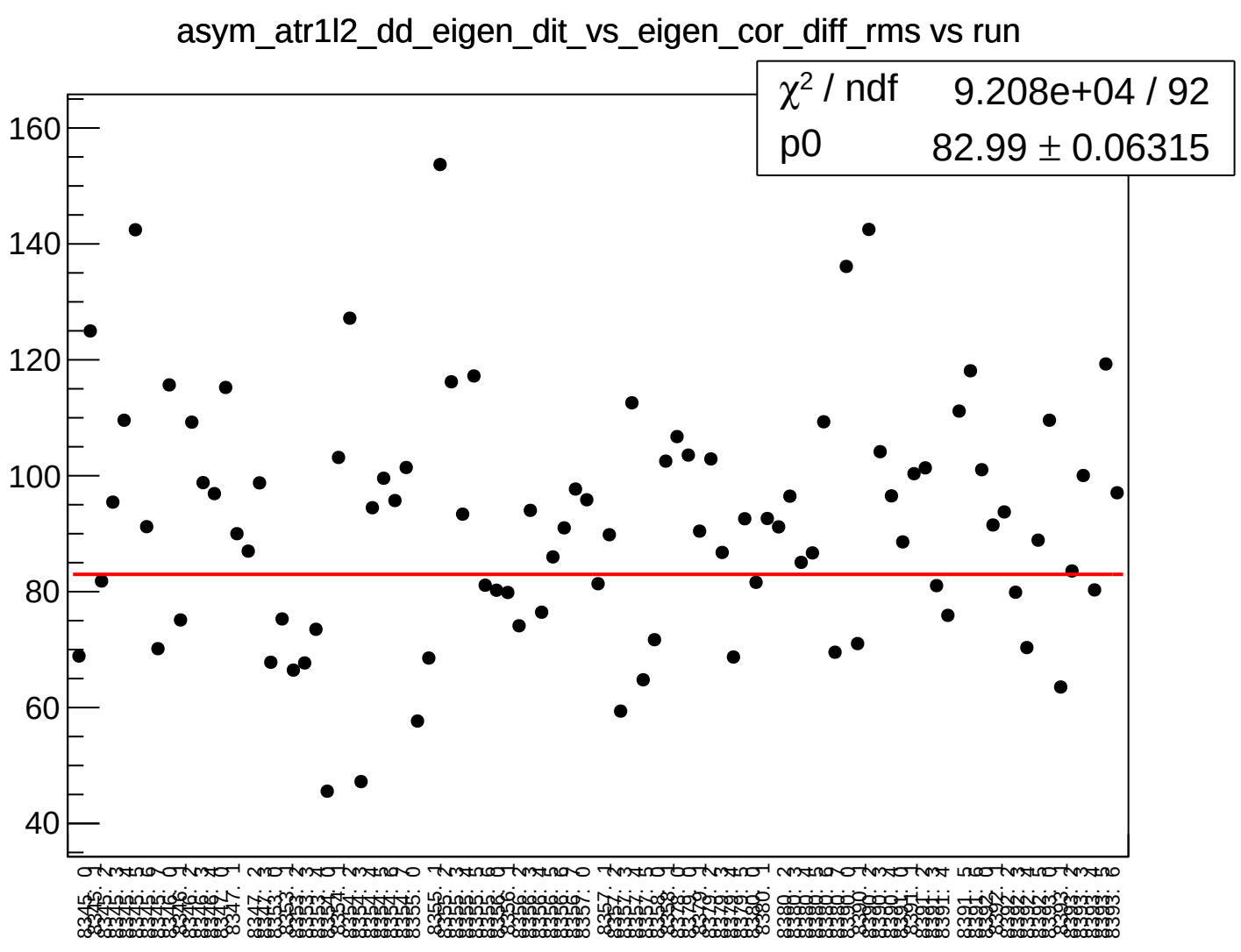

pull1D
Entries 93
Mean −0.1659
Std Dev 1.011
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

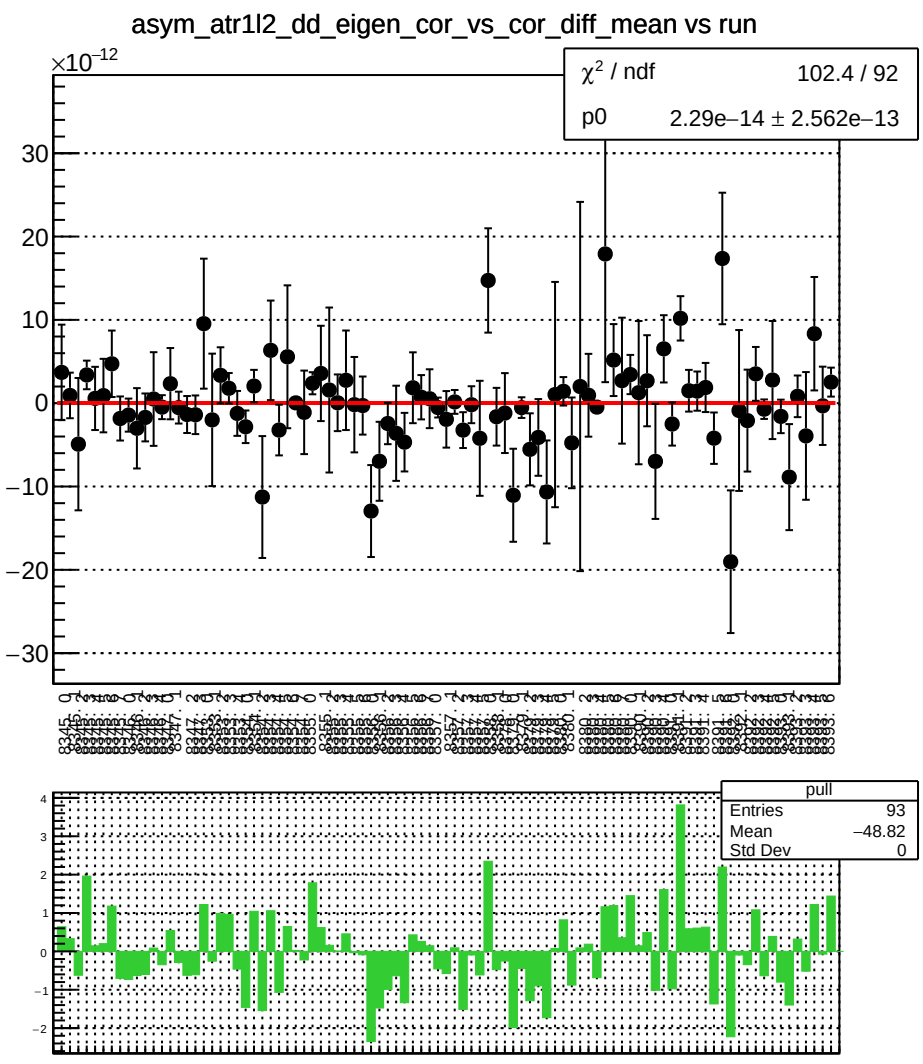

asym_atr1l2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.367e+05 / 92
p0 0.001483 ± 1.31e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001

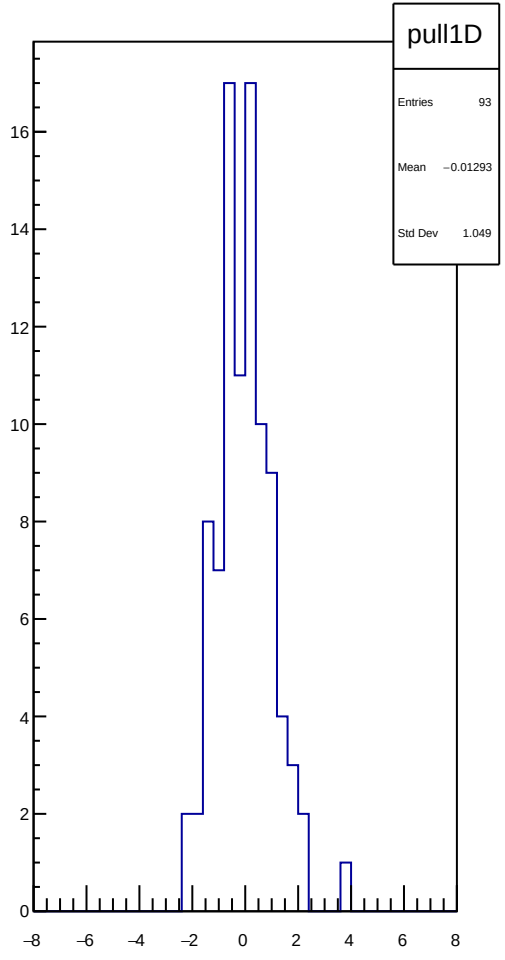

asym_atr1l2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.73 / 92
p0 −0.03246 ± 0.08931
pull
Entries 93
Mean 107.4
Std Dev 0
pull1D
Entries 93
Mean 0.009693
Std Dev 0.9876

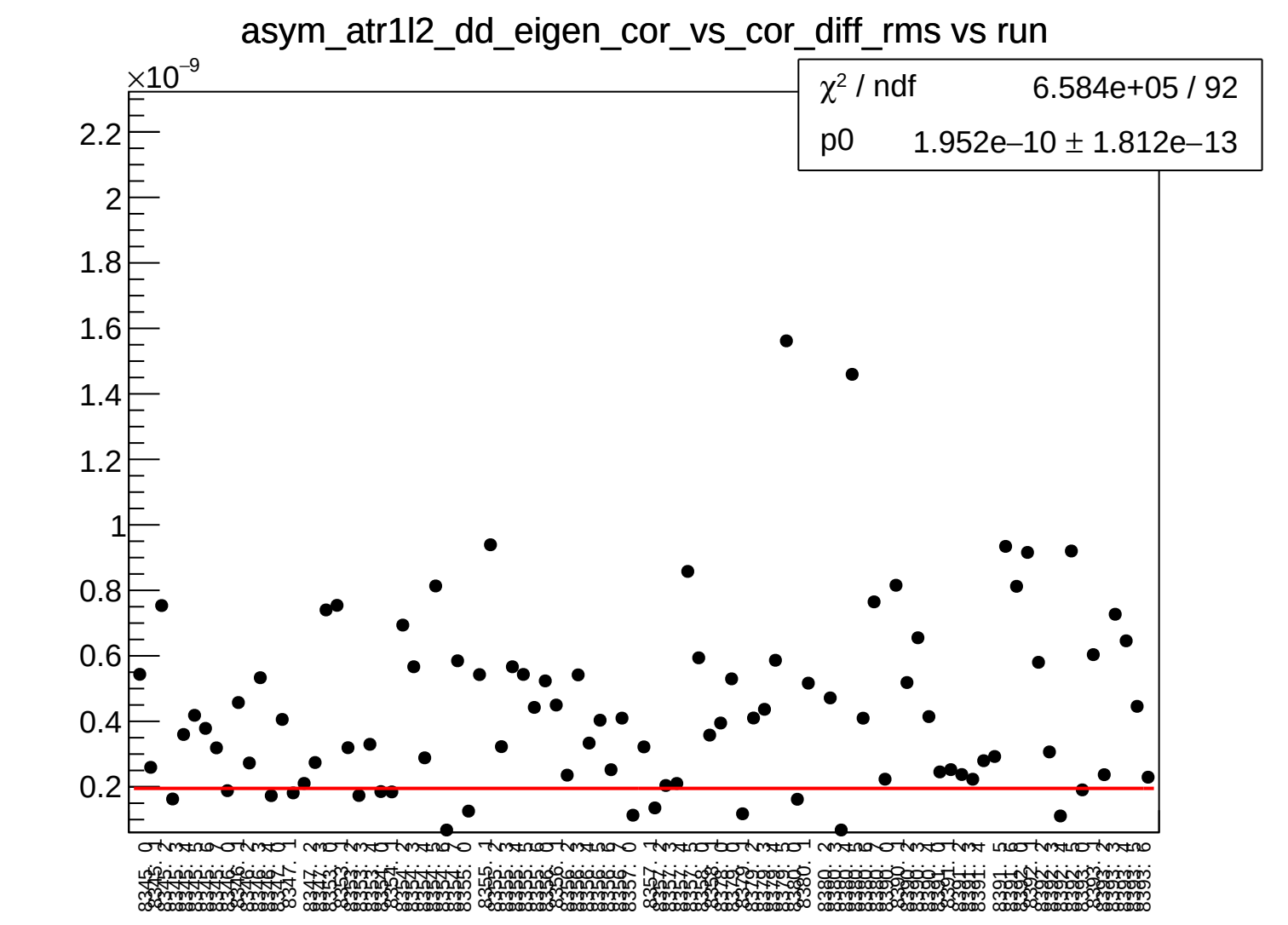

asym_atr1l2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.208e+04 / 92
p0 82.99 ± 0.06315
160
140
120
100
80
60
40

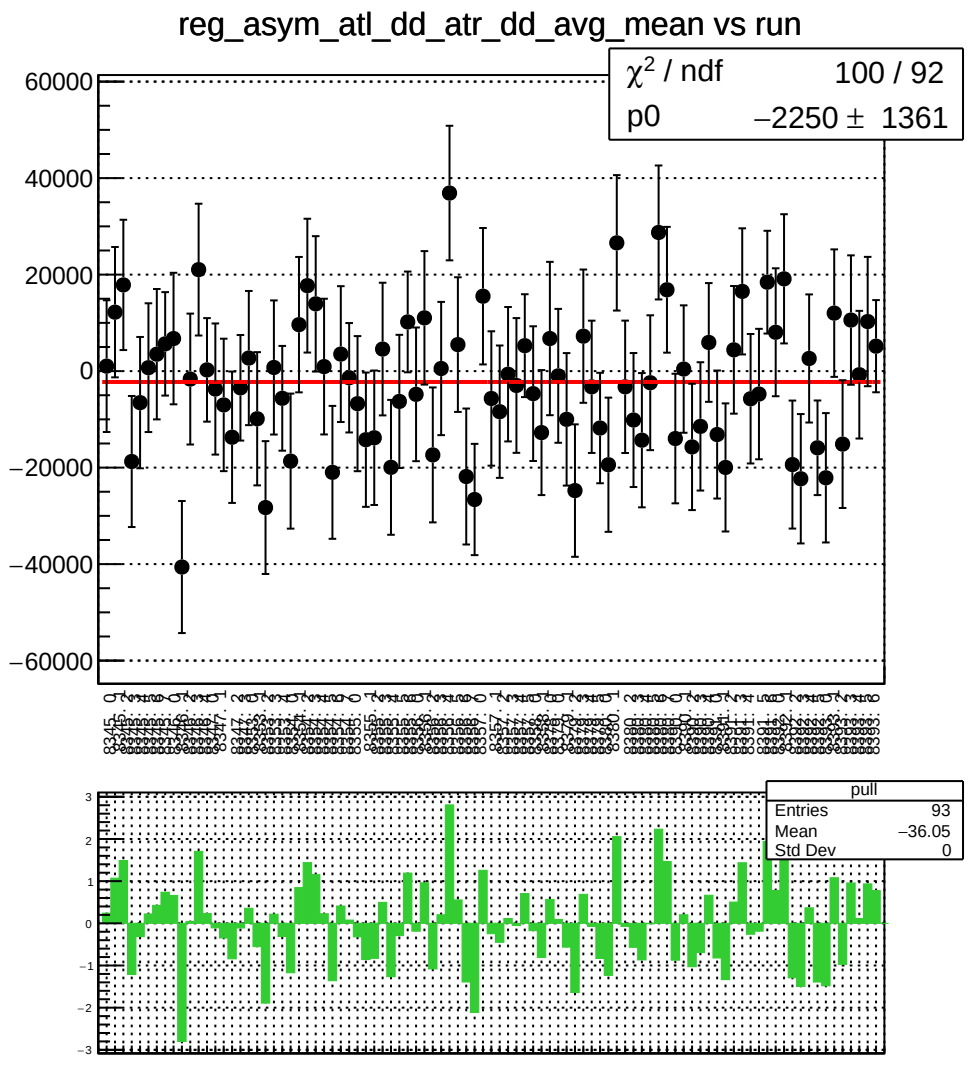

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.73 / 92
p0 −0.03246 ± 0.08931
pull
Entries 93
Mean 107.4
Std Dev 0
pull1D
Entries 93
Mean 0.009693
Std Dev 0.9876

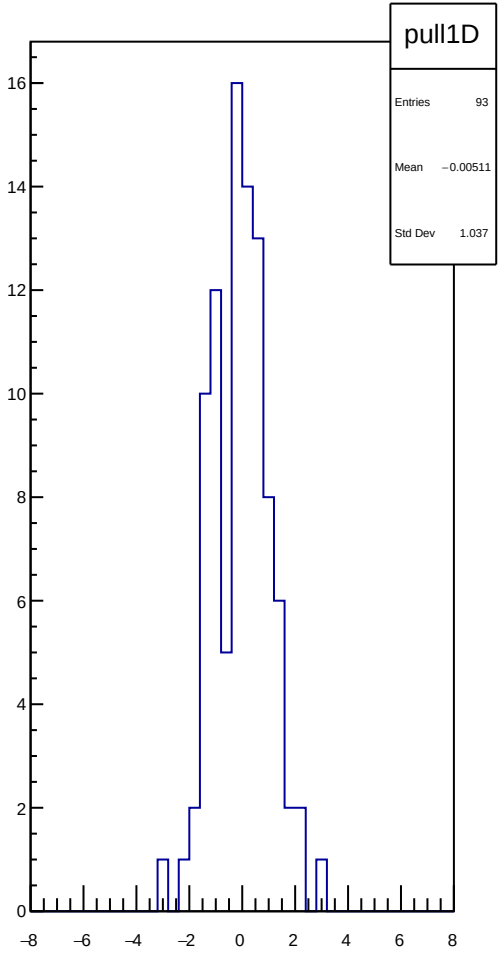

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.208e+04 / 92
p0 82.99 ± 0.06315
160
140
120
100
80
60
40

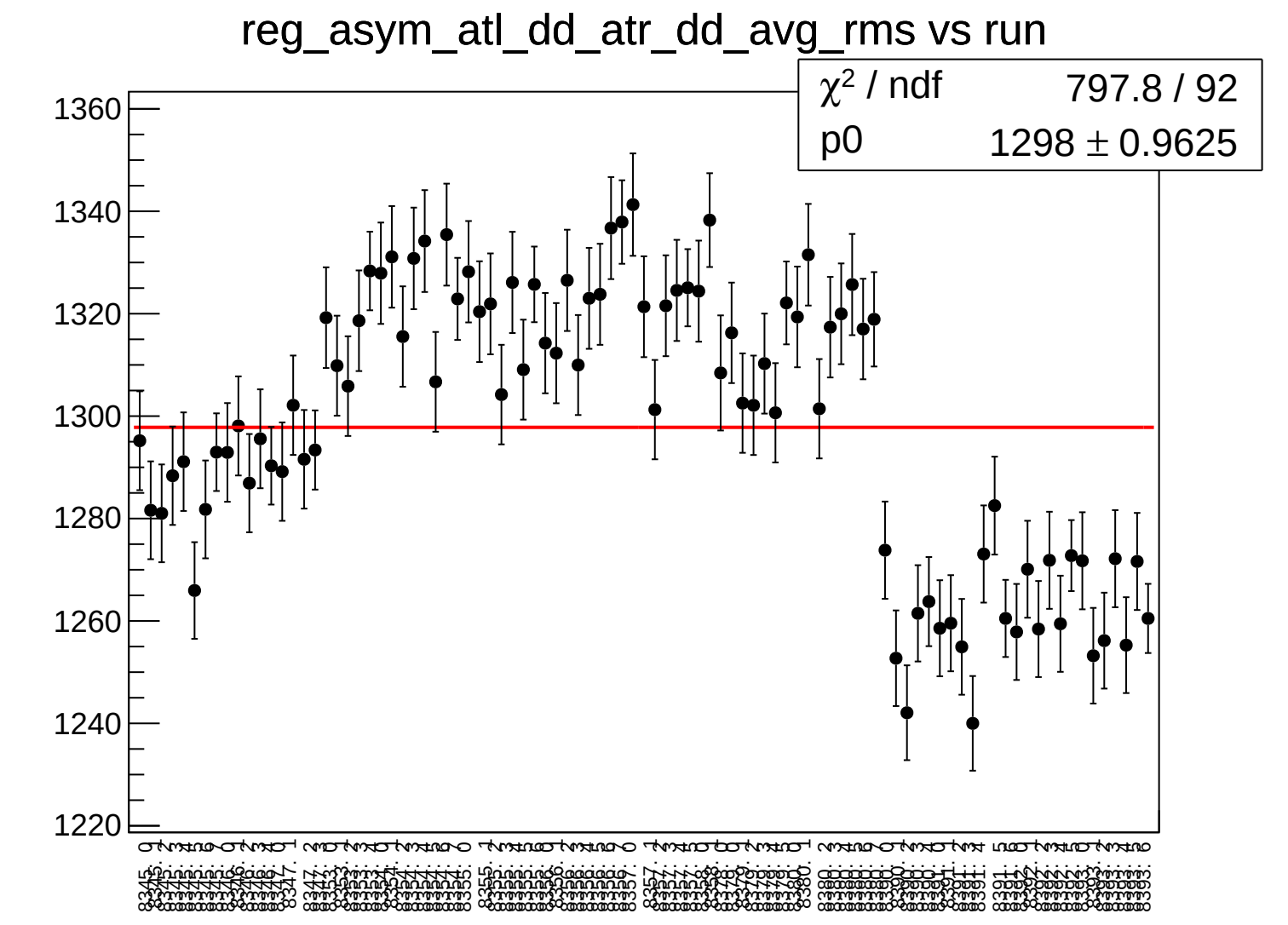

asym_atr1l2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 102.4 / 92
p0 2.29e−14 ± 2.562e−13
30
20
10
0
−10
−20
−30
pull
Entries 93
Mean −48.82
Std Dev 0
4
3
2
1
0
−1
−2

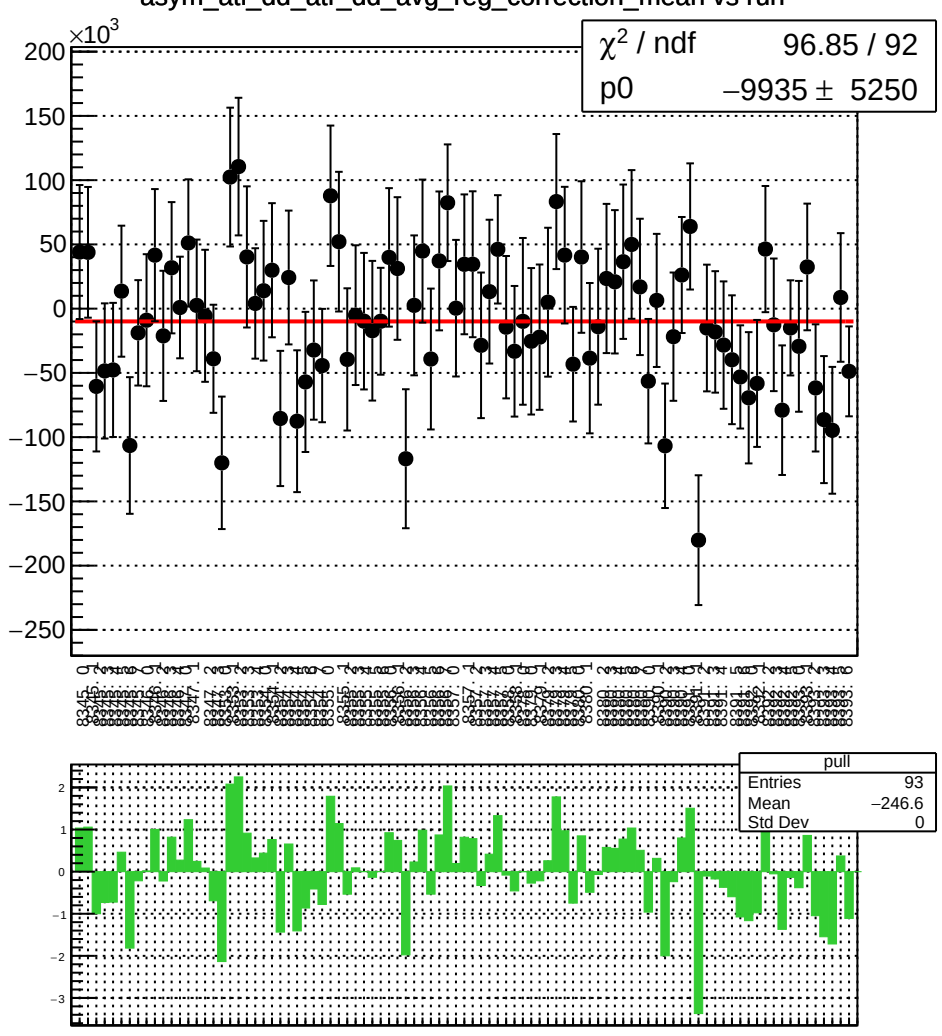

pull1D
Entries 93
Mean −0.01293
Std Dev 1.049
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

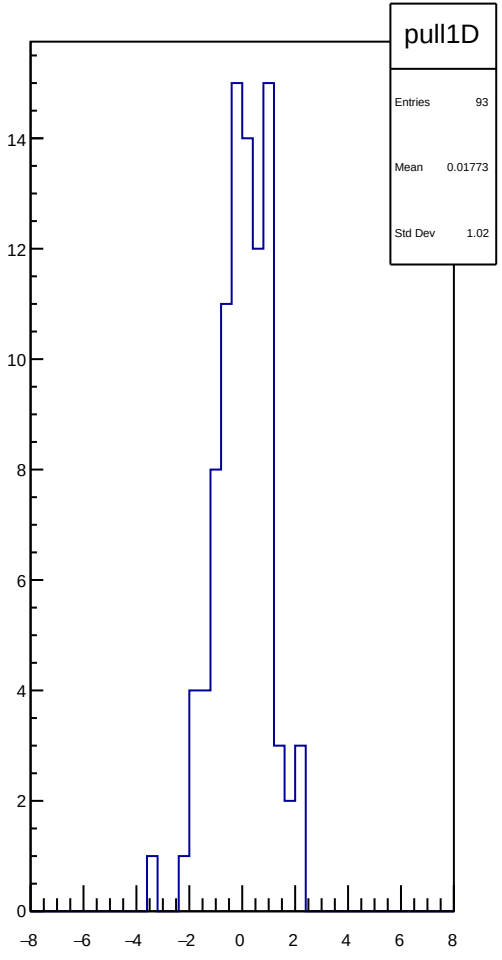

asym_atr1l2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.584e+05 / 92
p0 1.952e−10 ± 1.812e−13
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

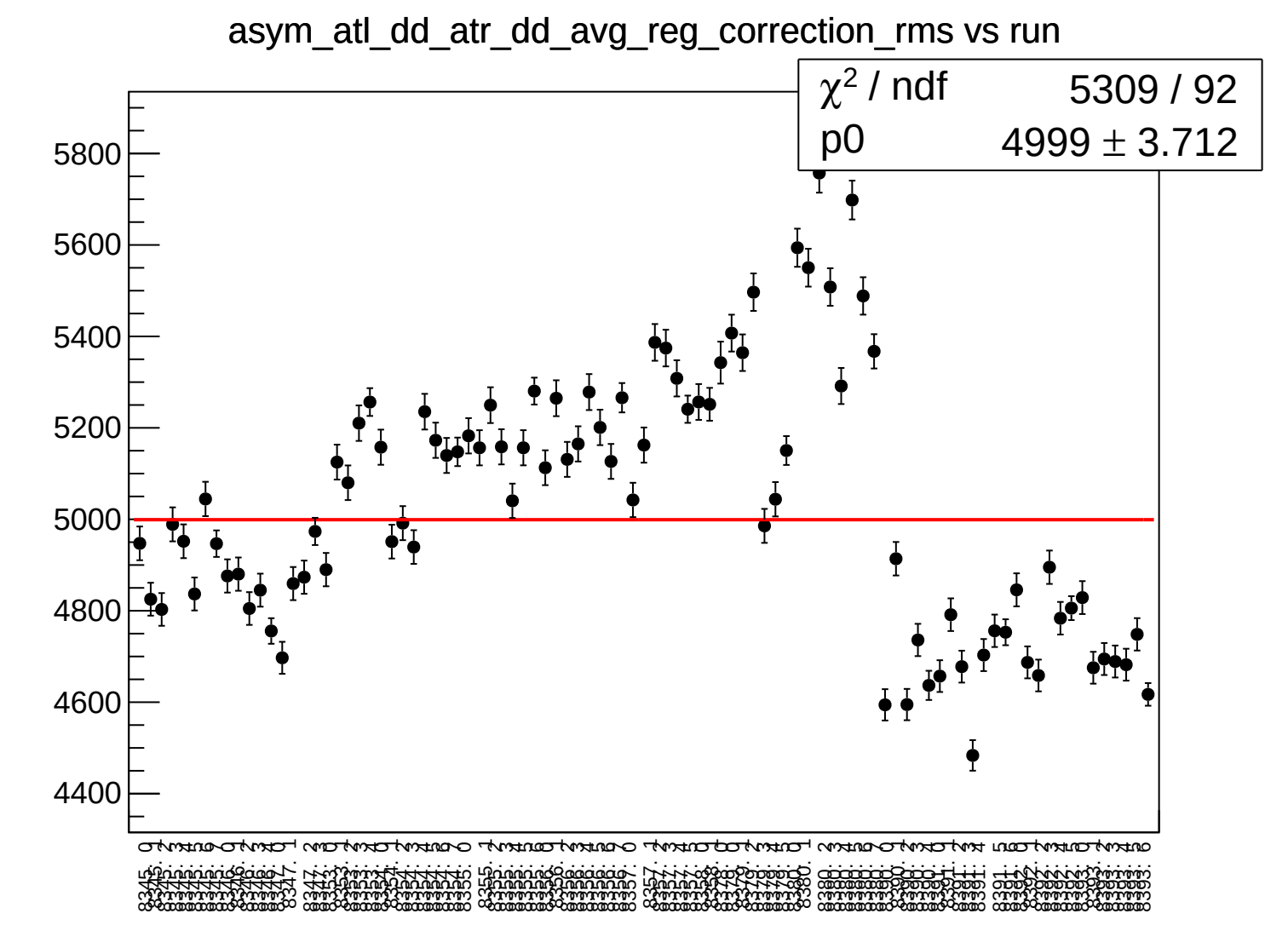

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 100 / 92
p0 −2250 ± 1361
pull
Entries 93
Mean −36.05
Std Dev 0

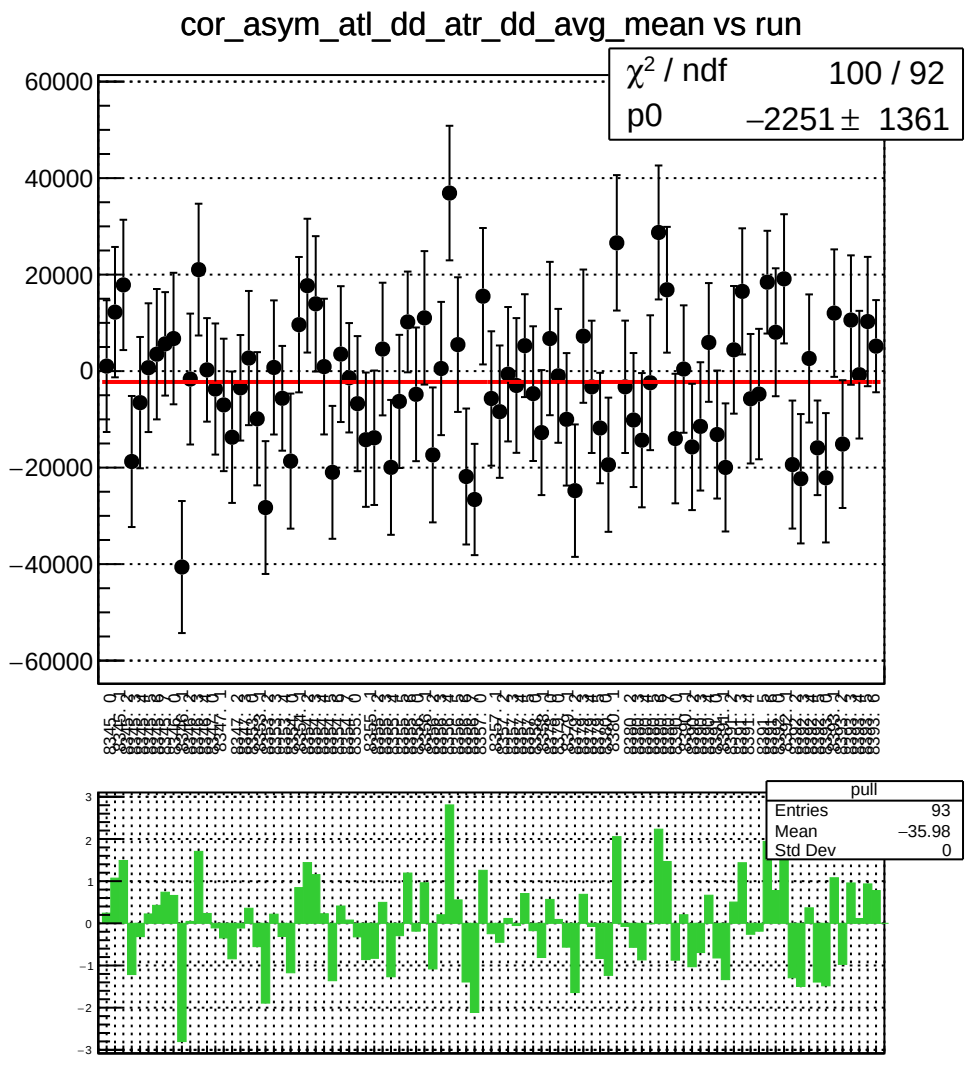

pull1D
Entries 93
Mean −0.00511
Std Dev 1.037

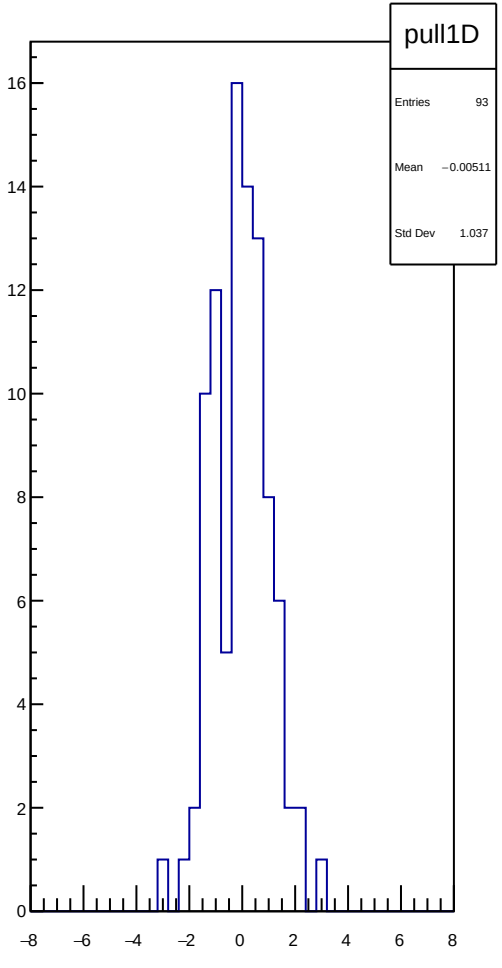

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 797.8 / 92
p0 1298 ± 0.9625
1360
1340
1320
1300
1280
1260
1240
1220

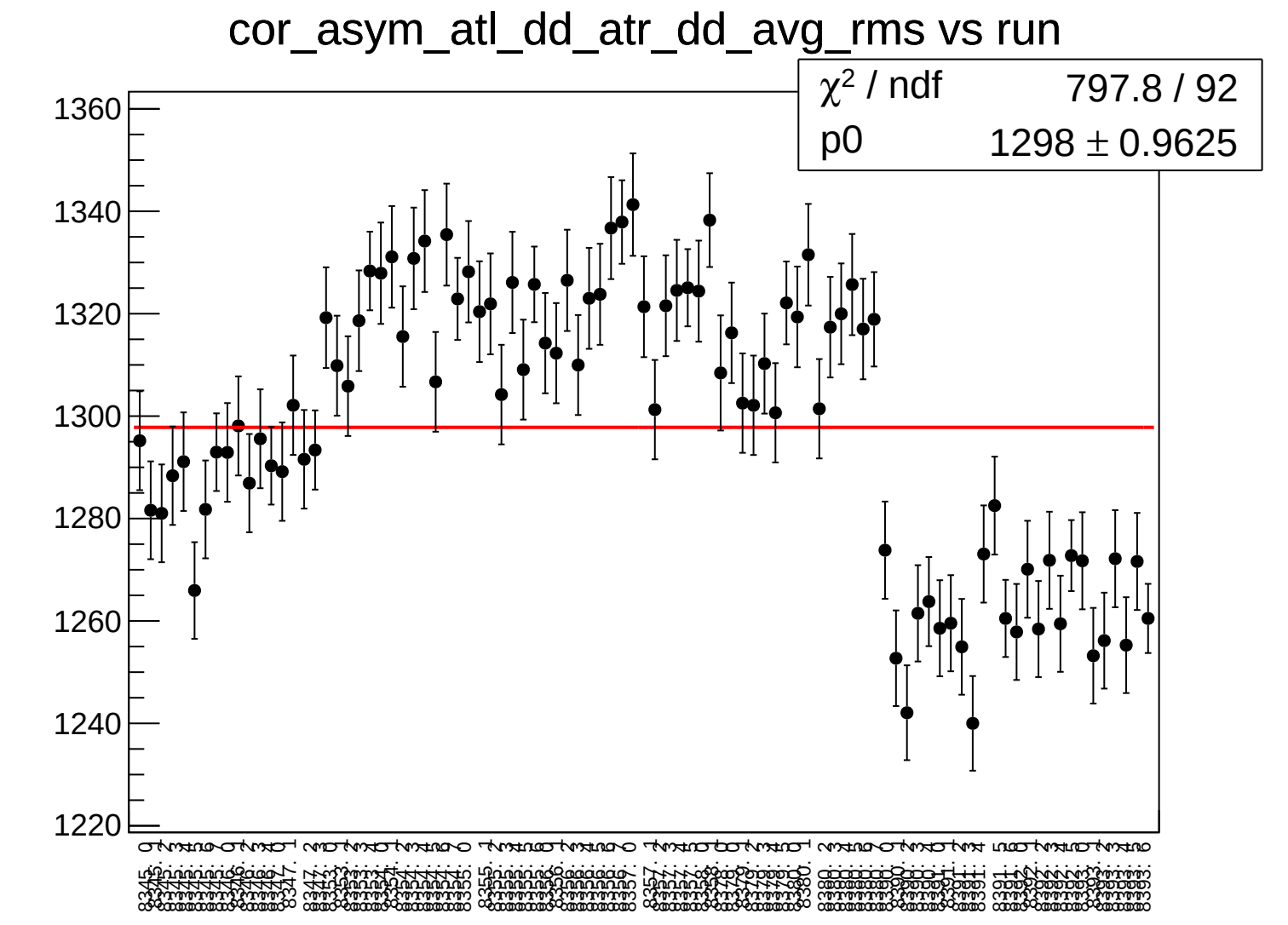

asym_atl_dd_atr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 96.85 / 92
p0 −9935 ± 5250
pull
Entries 93
Mean −246.6
Std Dev 0

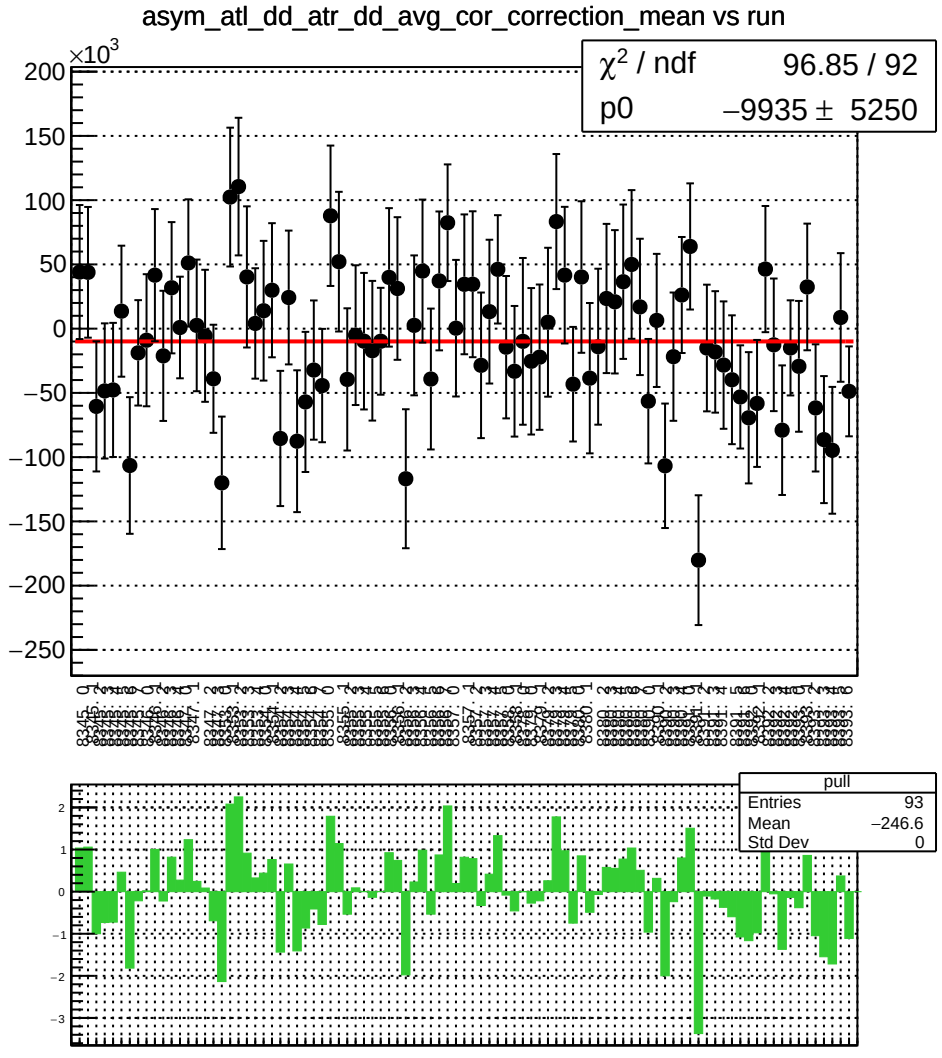

pull1D
Entries 93
Mean 0.01773
Std Dev 1.02

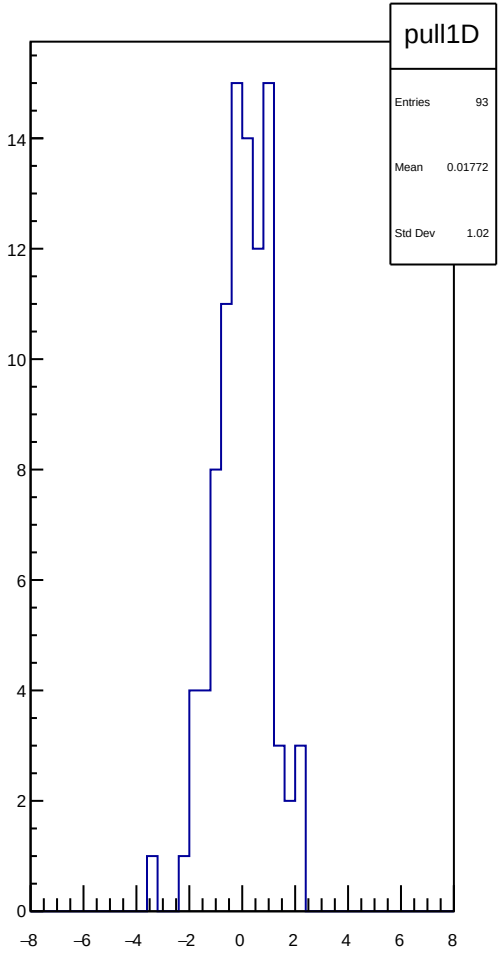

asym_atl_dd_atr_dd_avg_reg_correction_rms vs run
χ² / ndf 5309 / 92
p0 4999 ± 3.712
5800
5600
5400
5200
5000
4800
4600
4400

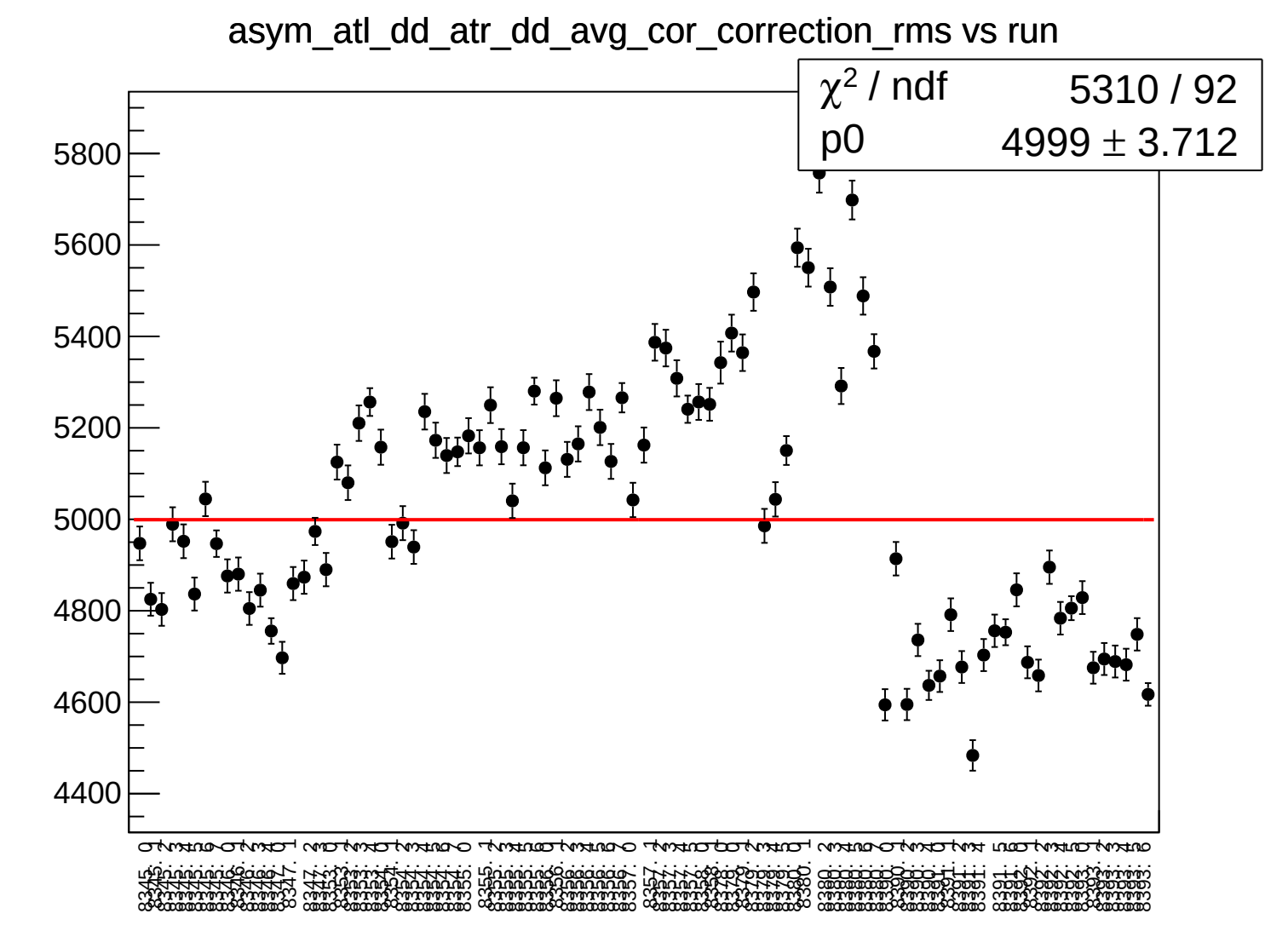

cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 100 / 92
p0 −2251 ± 1361
pull
Entries 93
Mean −35.98
Std Dev 0

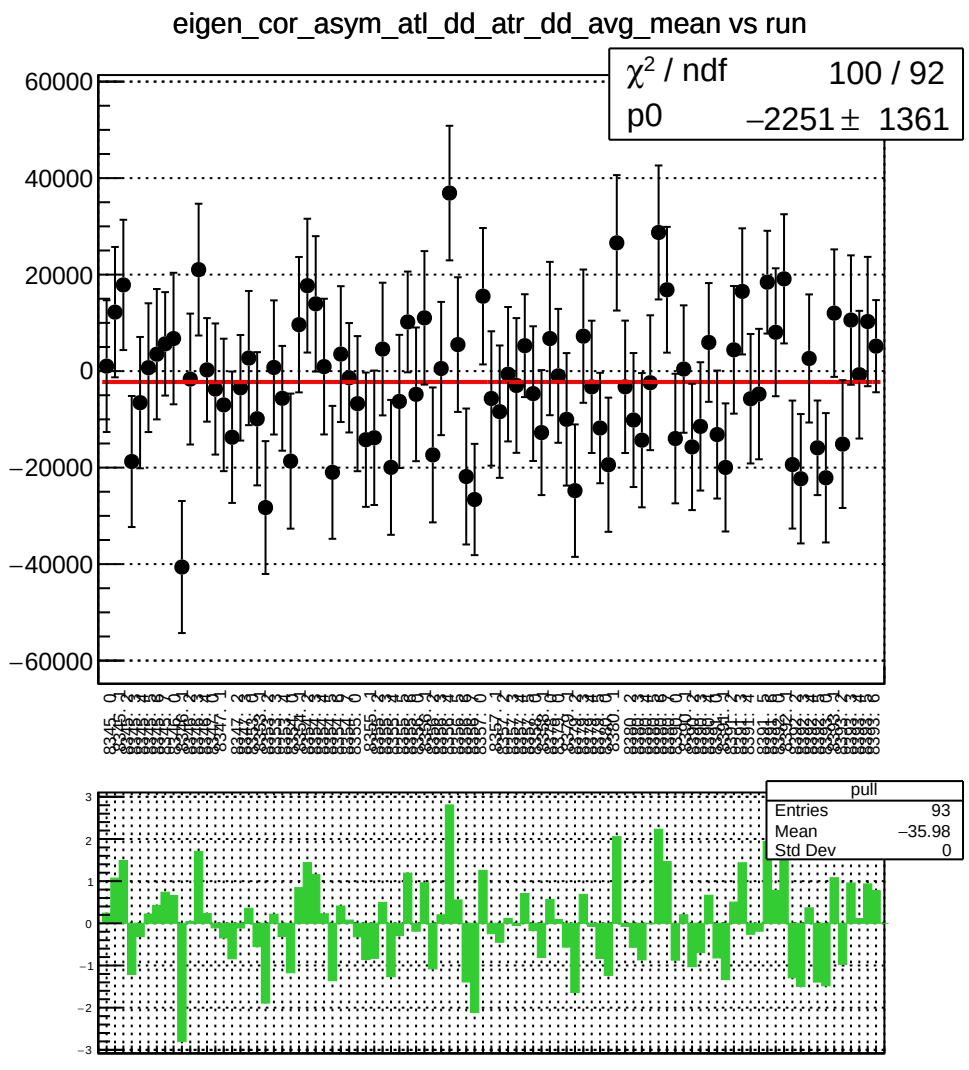

pull1D
Entries 93
Mean −0.00511
Std Dev 1.037

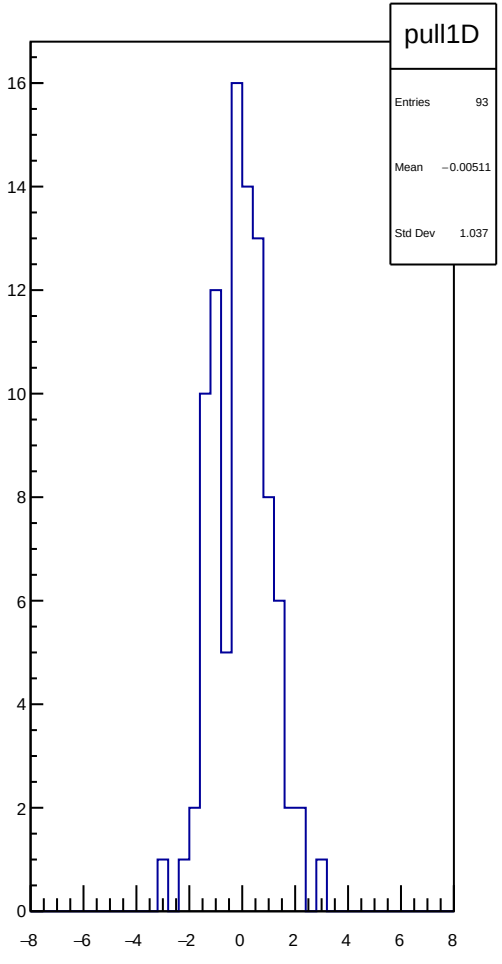

cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 797.8 / 92
p0 1298 ± 0.9625
1360
1340
1320
1300
1280
1260
1240
1220

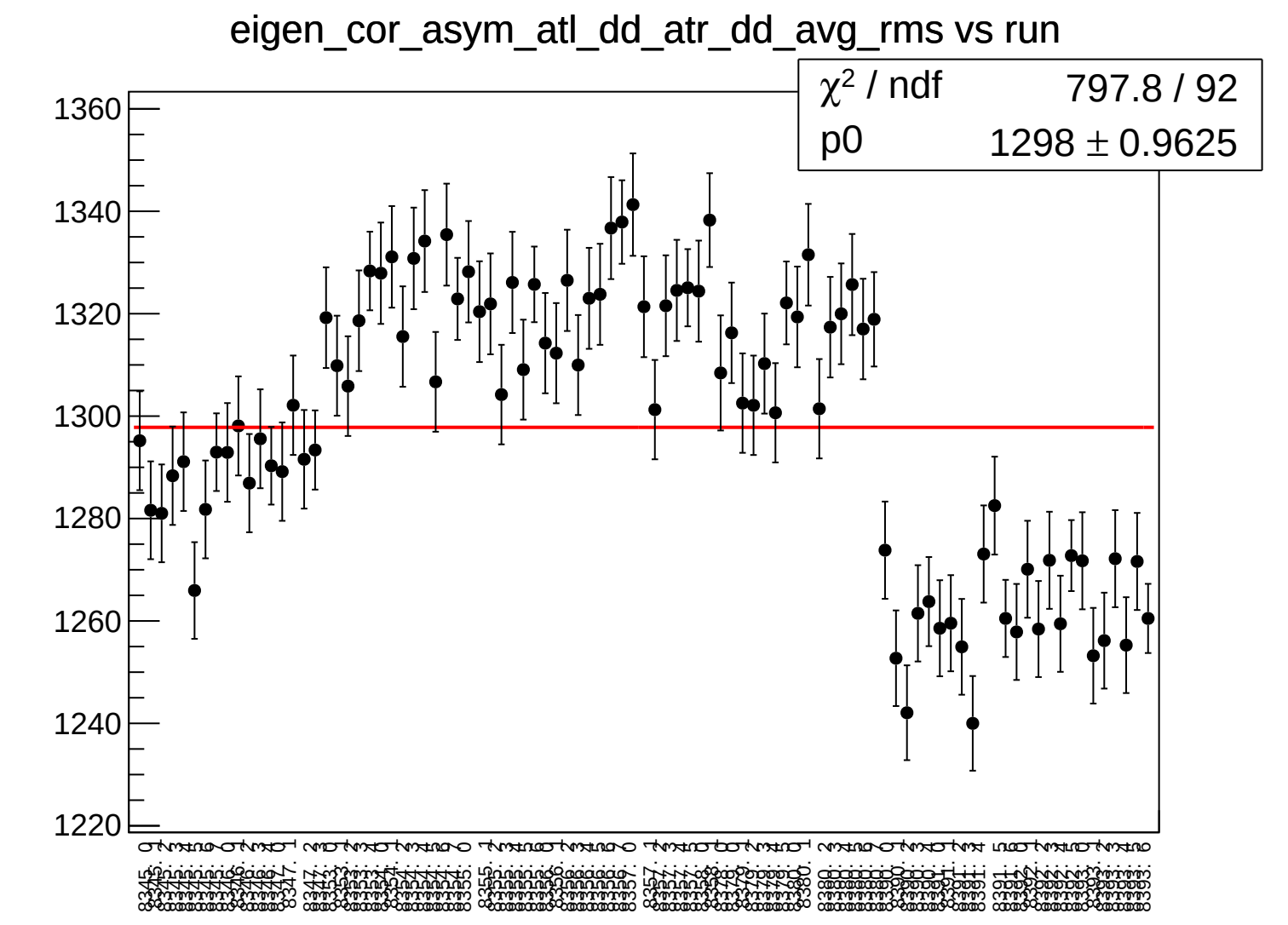

asym_atl_dd_atr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 96.85 / 92
p0 −9935 ± 5250
pull
Entries 93
Mean −246.6
Std Dev 0

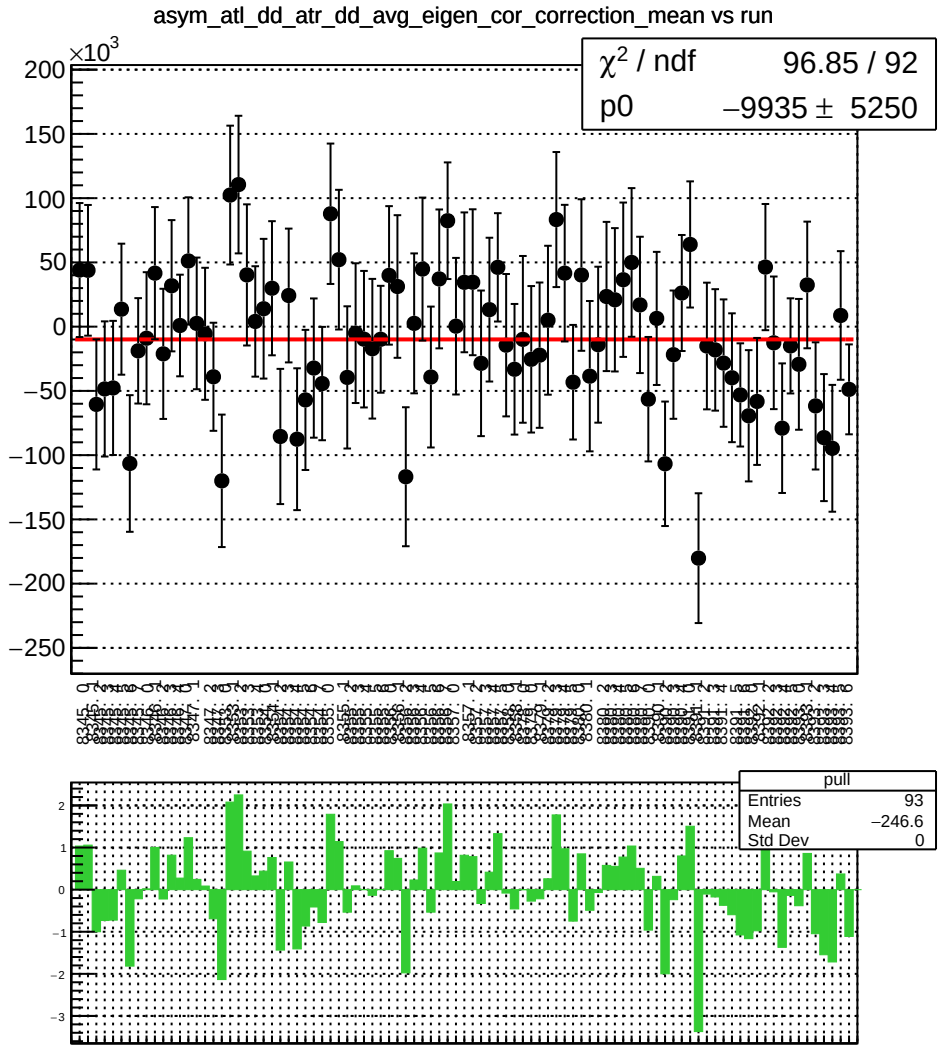

pull1D
Entries 93
Mean 0.01772
Std Dev 1.02

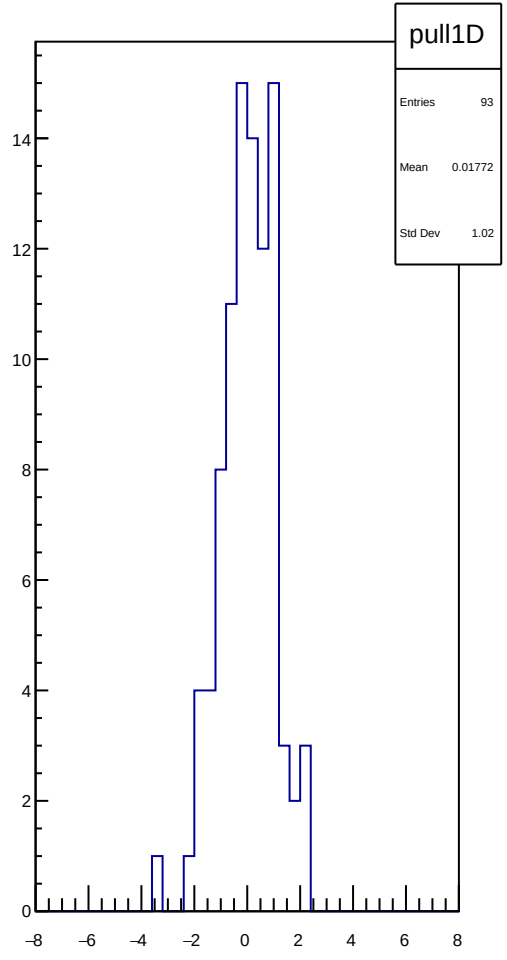

asym_atl_dd_atr_dd_avg_cor_correction_rms vs run
χ² / ndf 5310 / 92
p0 4999 ± 3.712
5800
5600
5400
5200
5000
4800
4600
4400

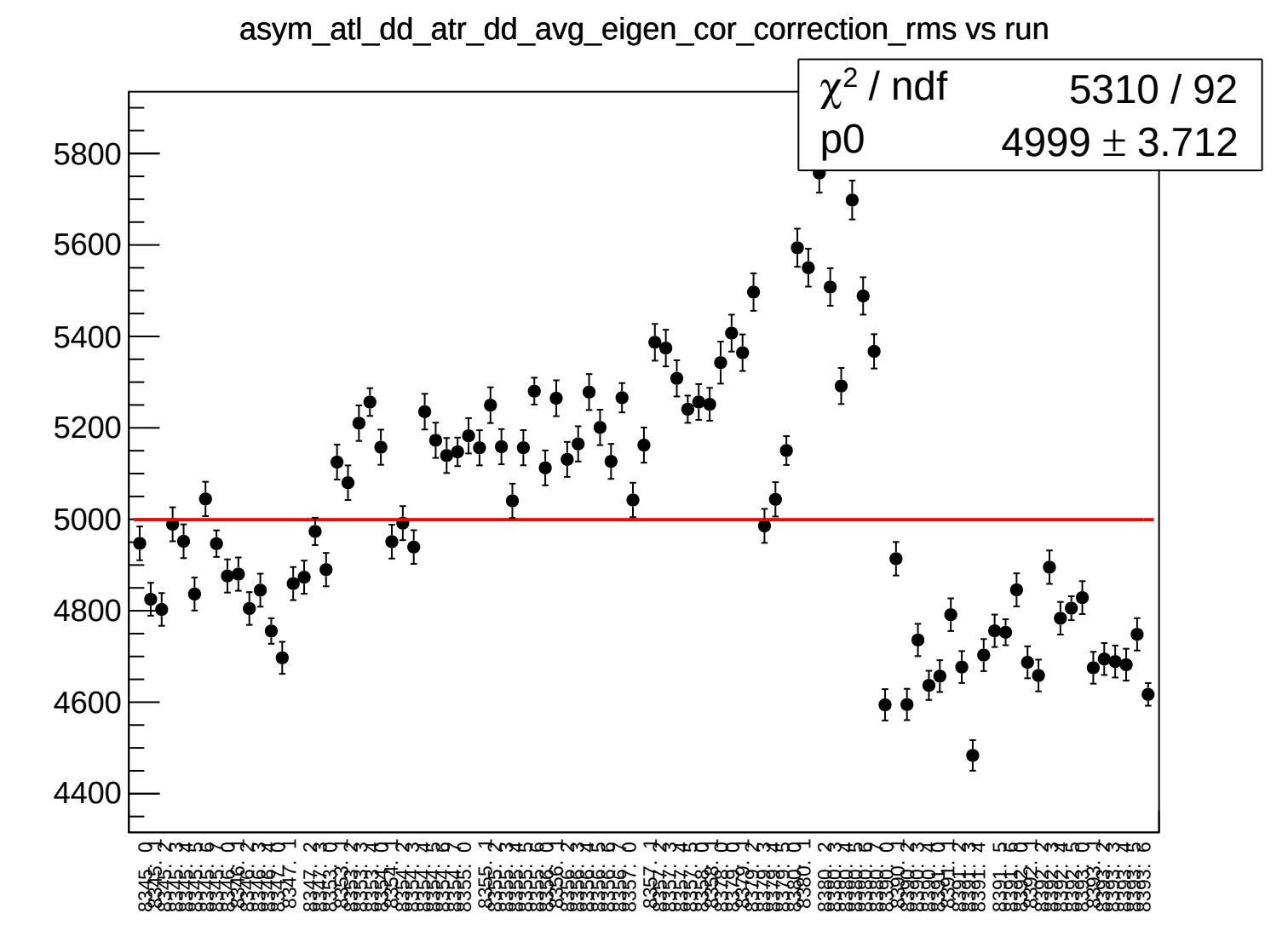

eigen_cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 100 / 92
p0 −2251 ± 1361
pull
Entries 93
Mean −35.98
Std Dev 0

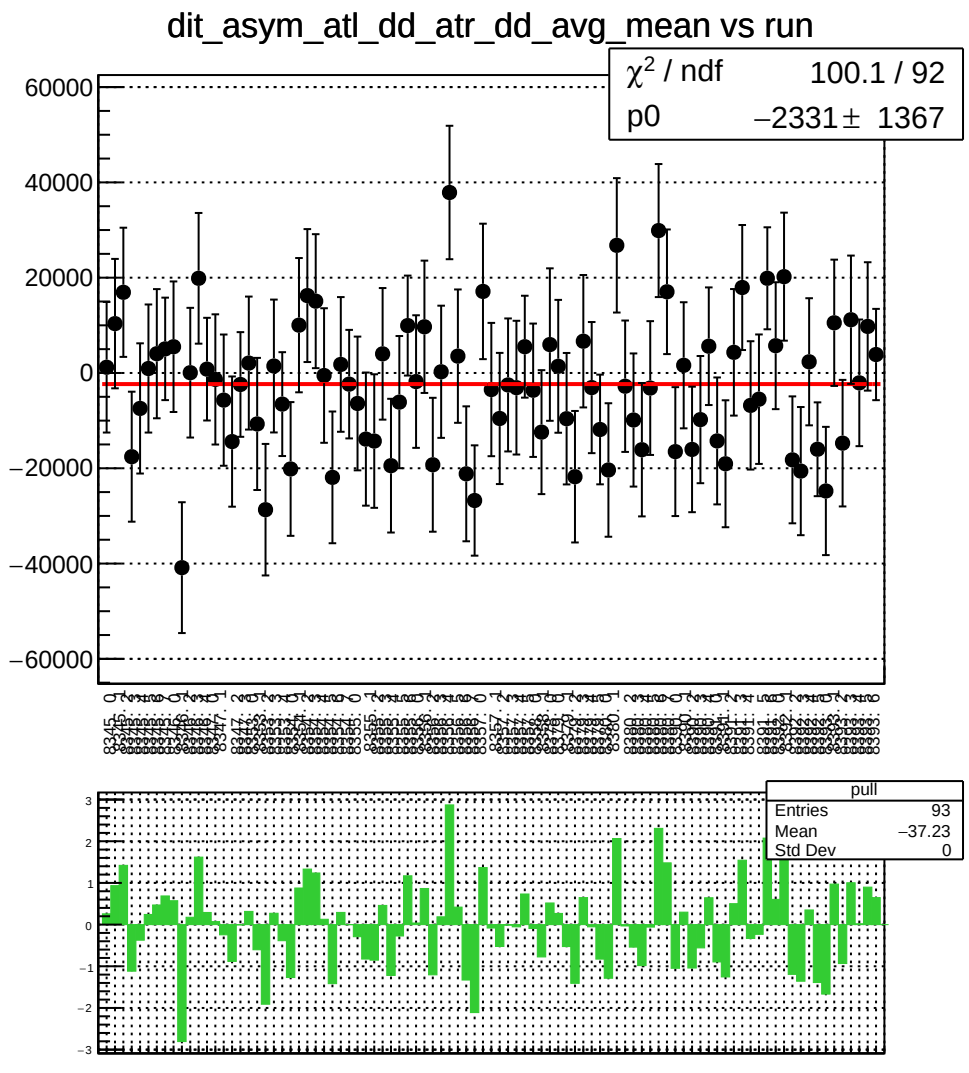

pull1D
Entries 93
Mean −0.00511
Std Dev 1.037

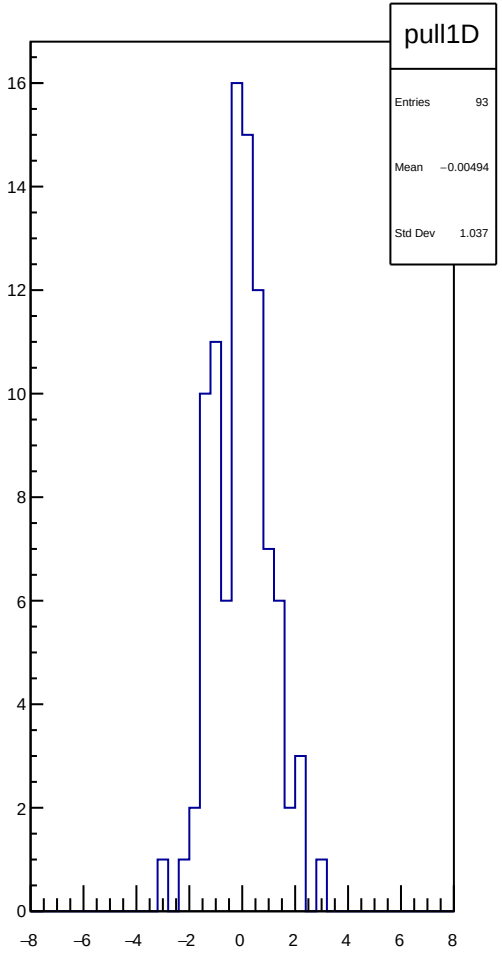

eigen_cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 797.8 / 92
p0 1298 ± 0.9625
1360
1340
1320
1300
1280
1260
1240
1220

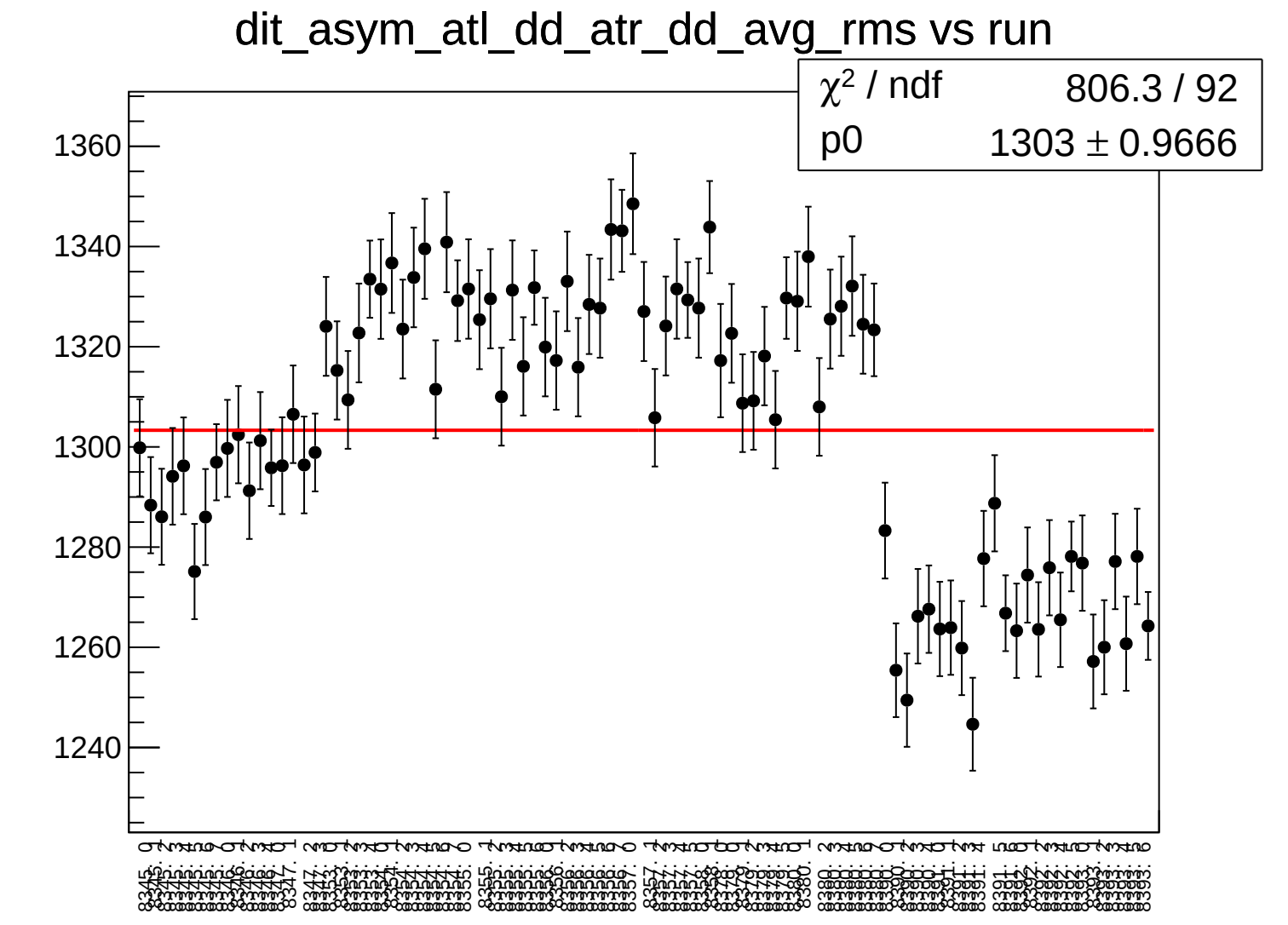

asym_atl_dd_atr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 96.85 / 92
p0 −9935 ± 5250
pull
Entries 93
Mean −246.6
Std Dev 0

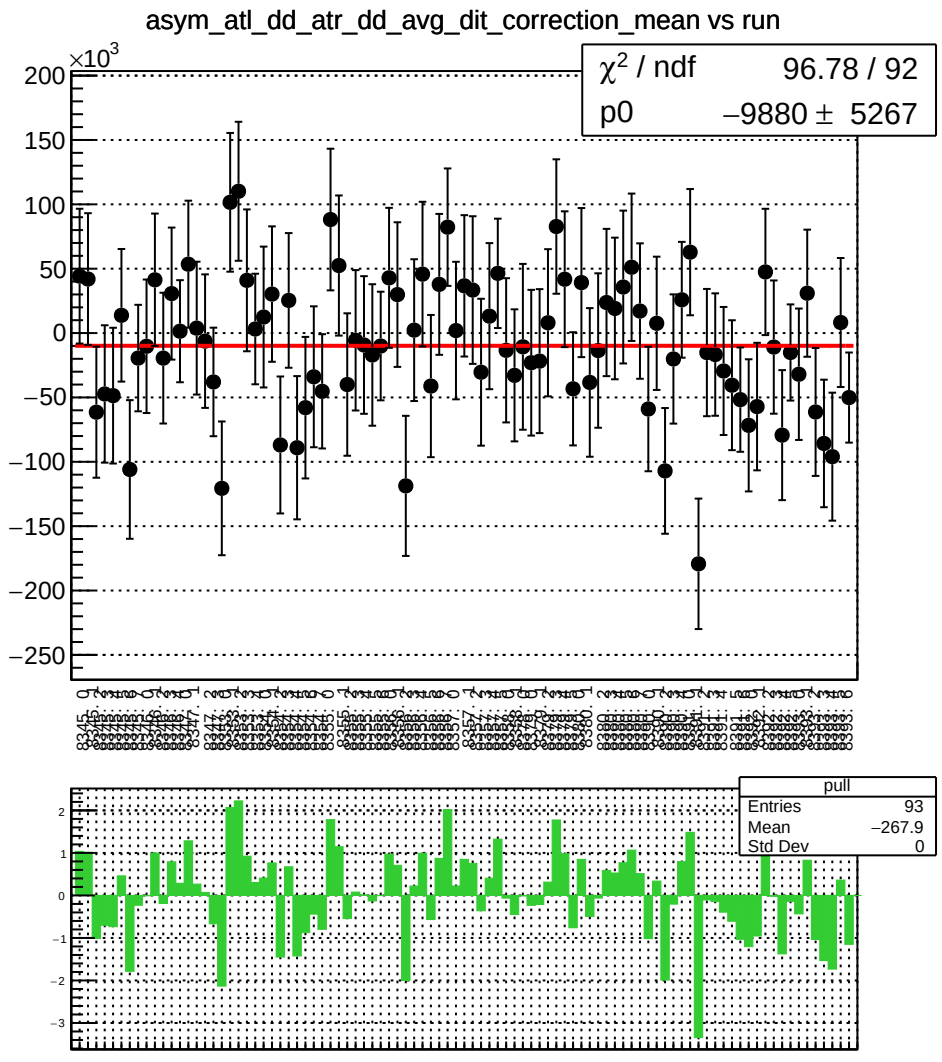

pull1D
Entries 93
Mean 0.01772
Std Dev 1.02

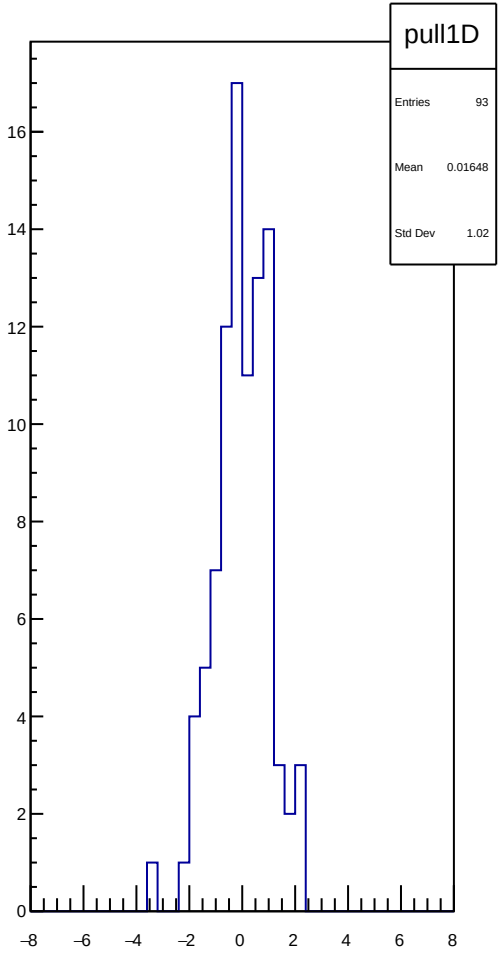

asym_atl_dd_atr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 5310 / 92
p0 4999 ± 3.712
5800
5600
5400
5200
5000
4800
4600
4400

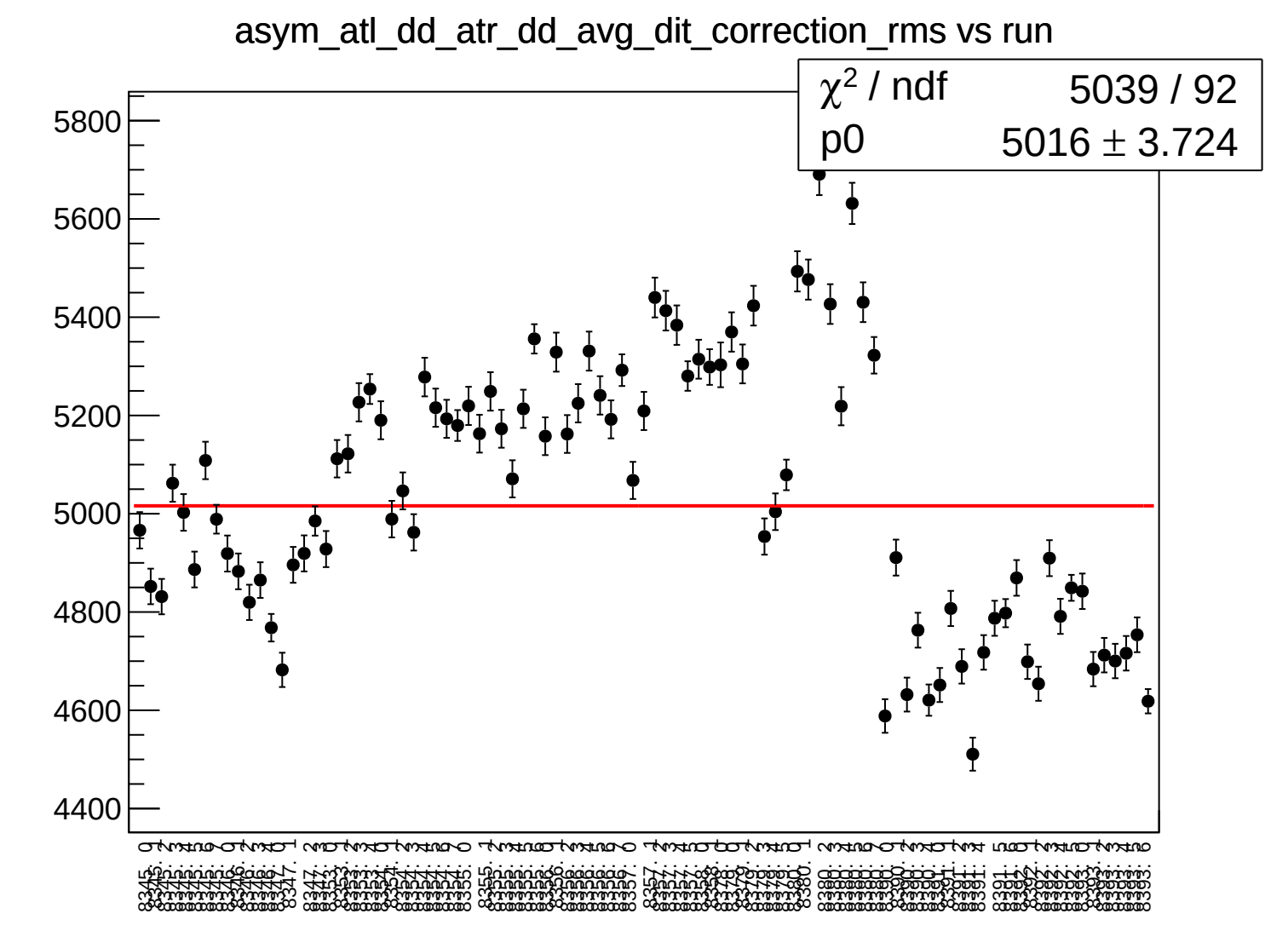

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 100.1 / 92
p0 −2331 ± 1367
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −37.23
Std Dev 0
3
2
1
0
−1
−2
−3

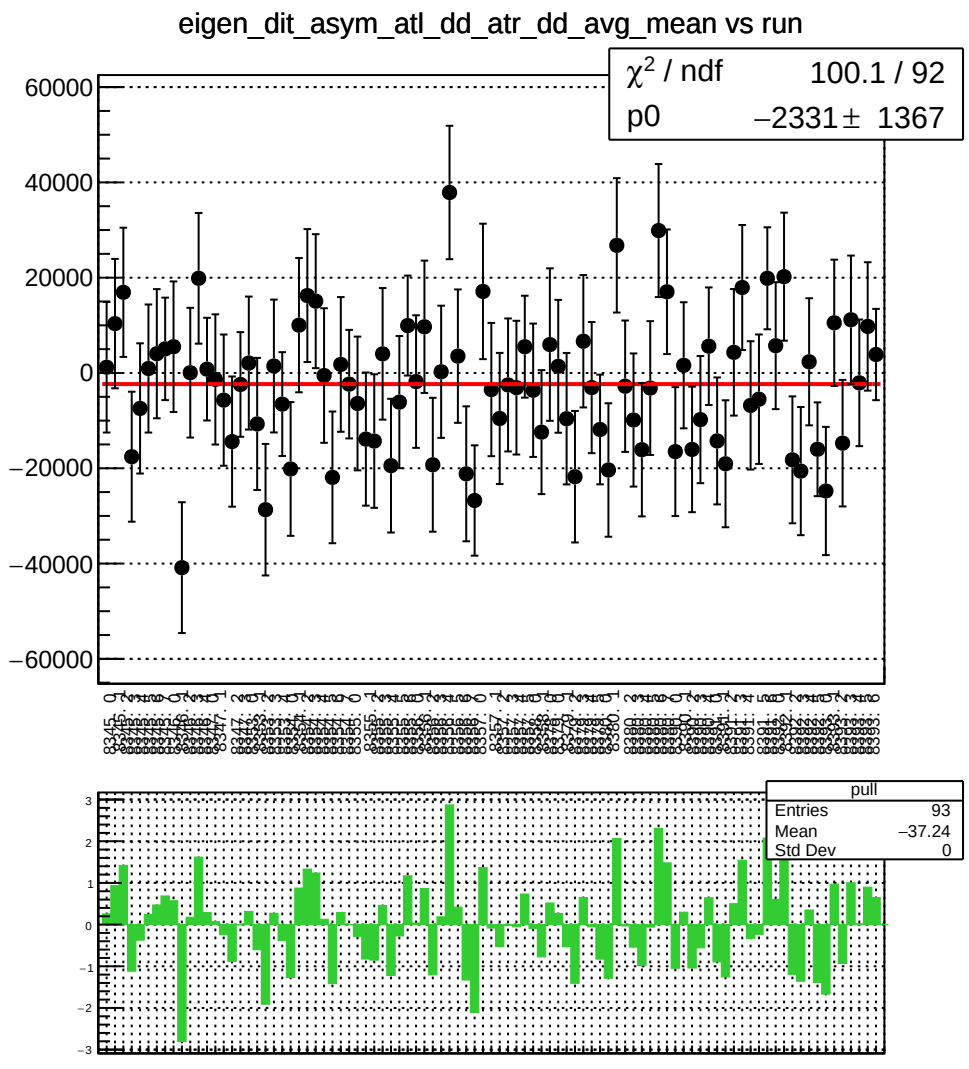

pull1D
Entries 93
Mean −0.00494
Std Dev 1.037
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

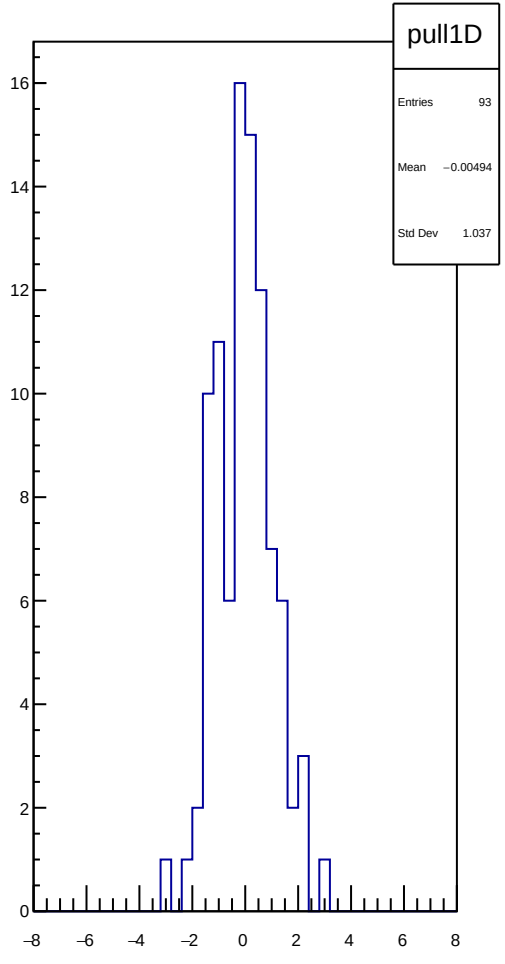

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 806.3 / 92
p0 1303 ± 0.9666
1360
1340
1320
1300
1280
1260
1240

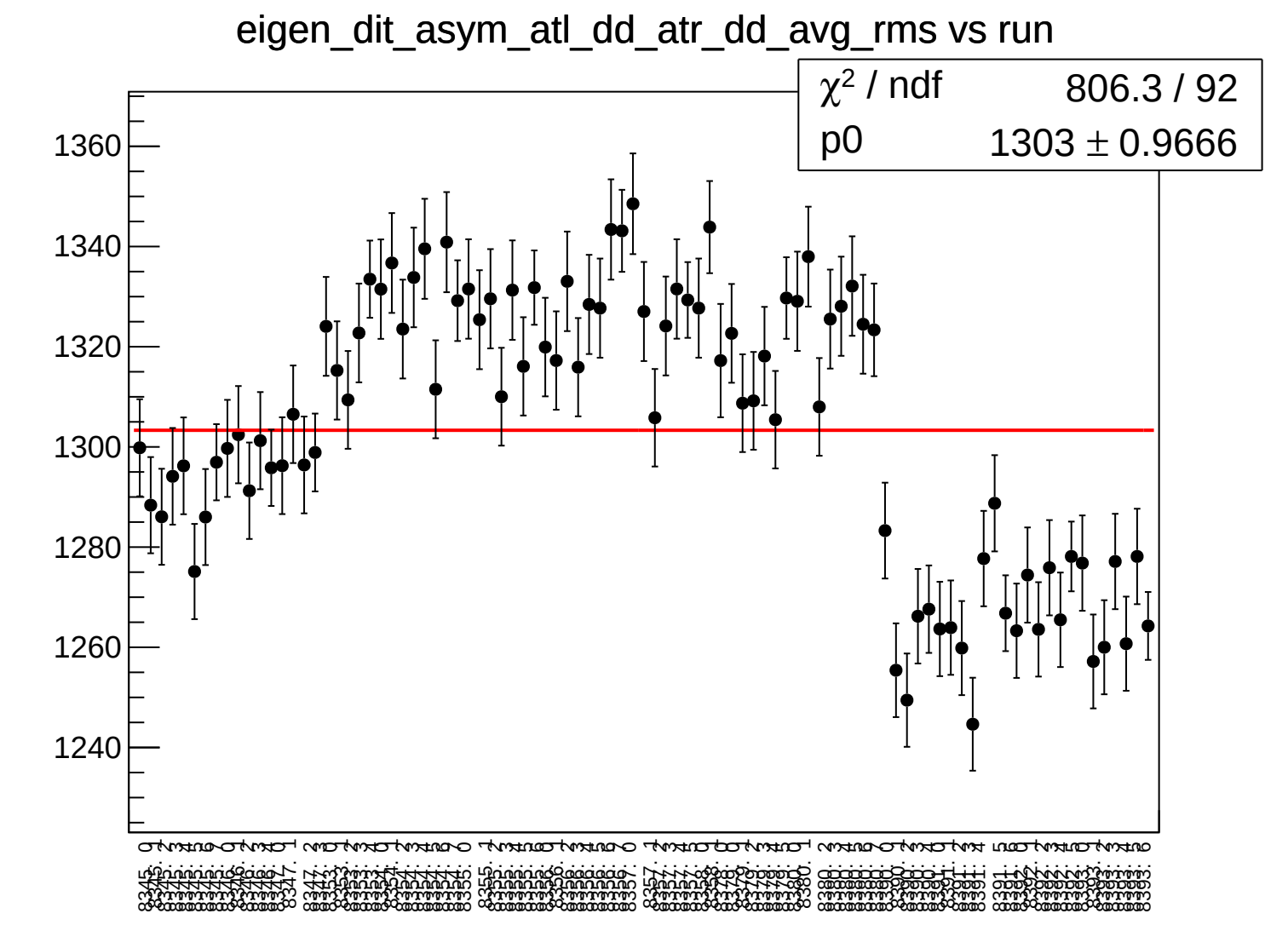

asym_atl_dd_atr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 96.78 / 92
p0 −9880 ± 5267
pull
Entries 93
Mean −267.9
Std Dev 0

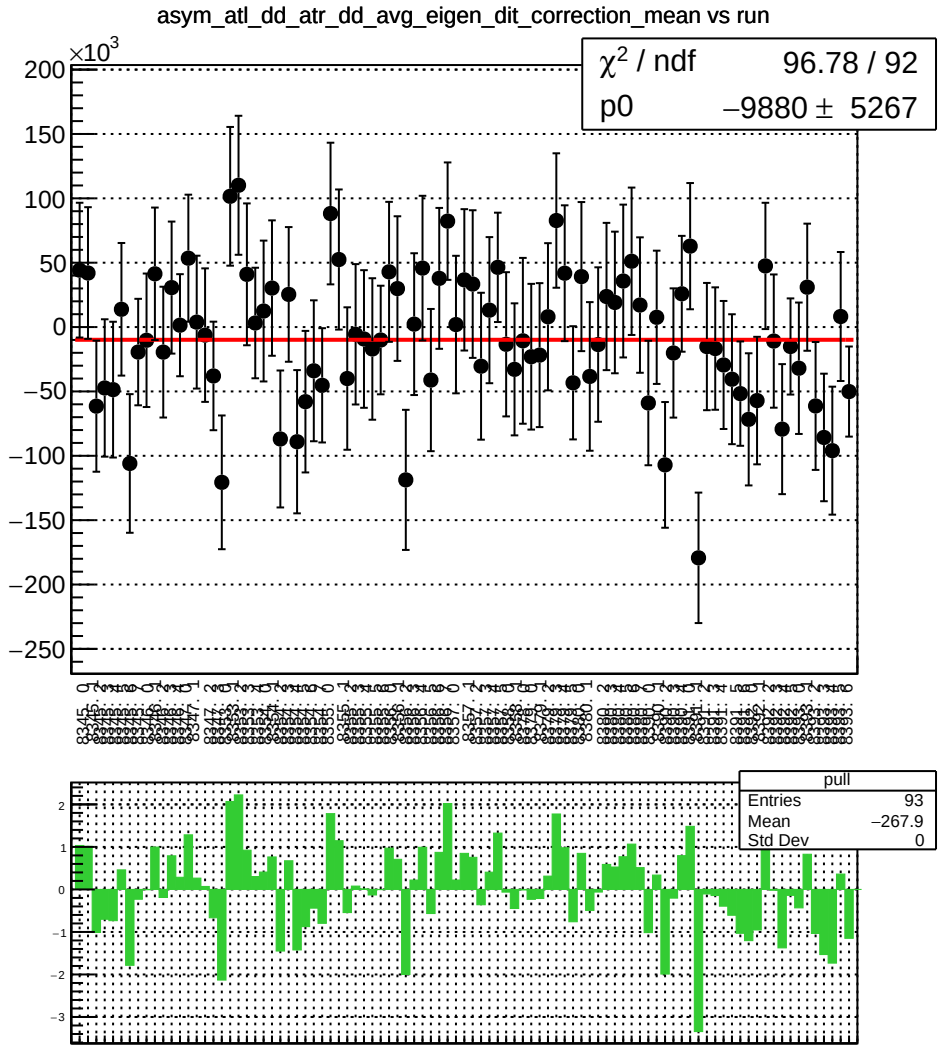

pull1D
Entries 93
Mean 0.01648
Std Dev 1.02

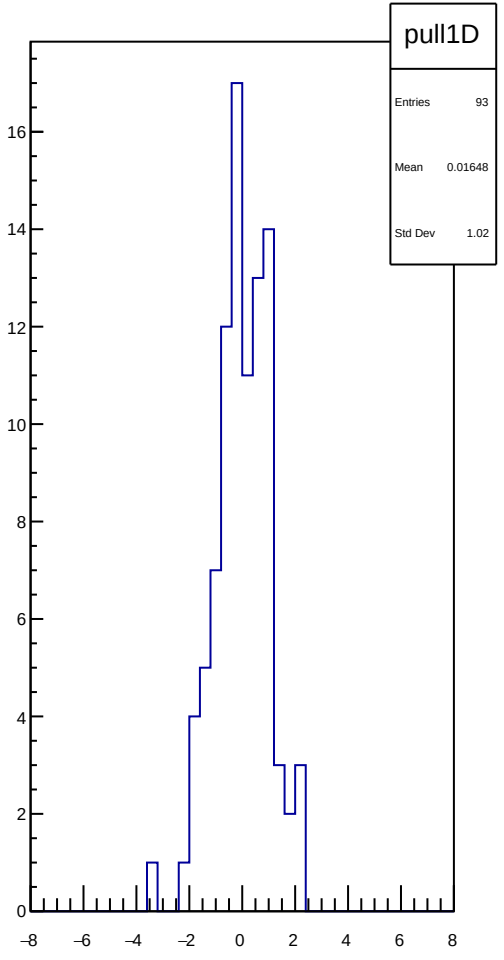

asym_atl_dd_atr_dd_avg_dit_correction_rms vs run
χ² / ndf 5039 / 92
p0 5016 ± 3.724
5800
5600
5400
5200
5000
4800
4600
4400

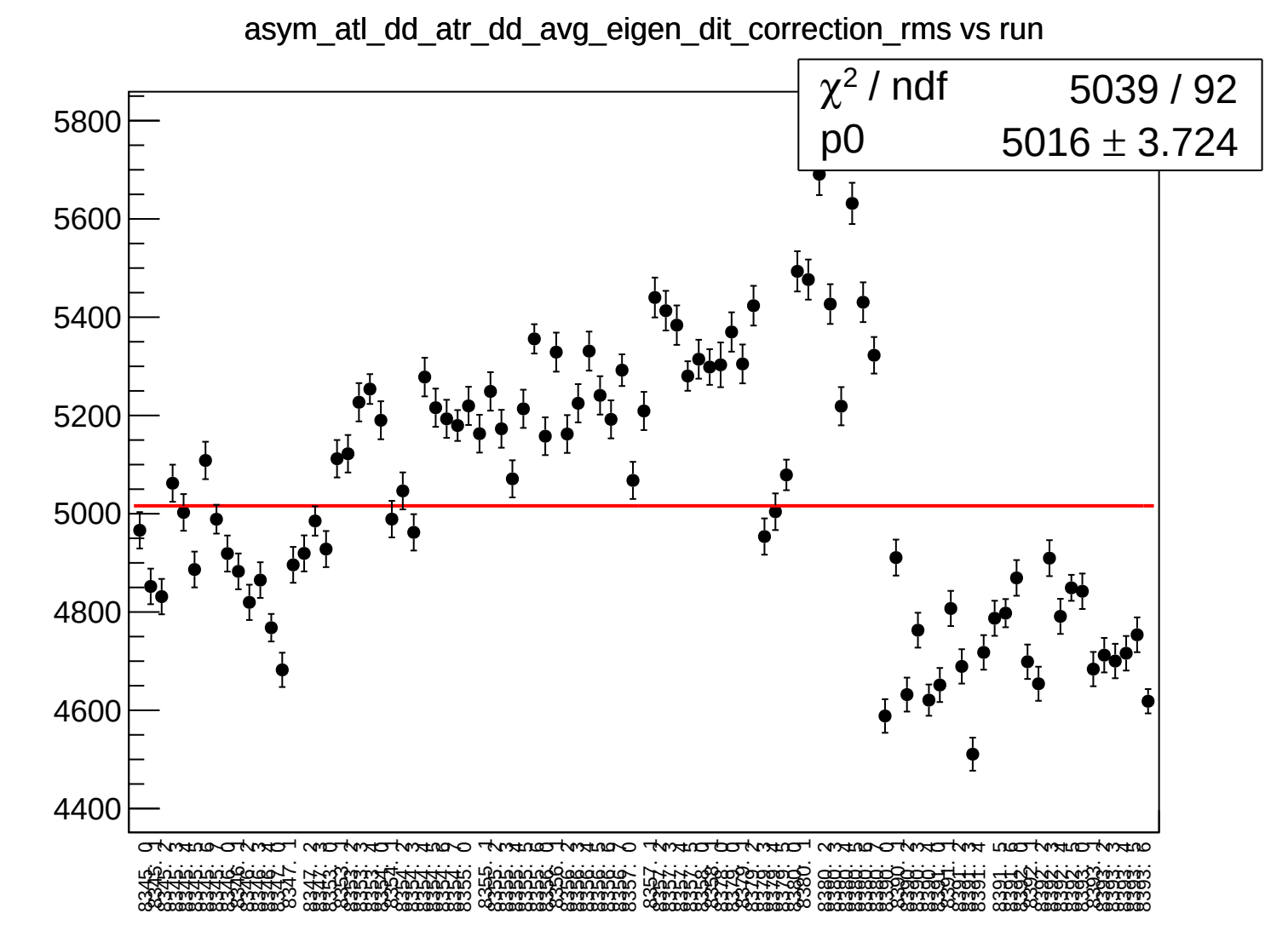

eigen_dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 100.1 / 92
p0 −2331 ± 1367
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −37.24
Std Dev 0
3
2
1
0
−1
−2
−3

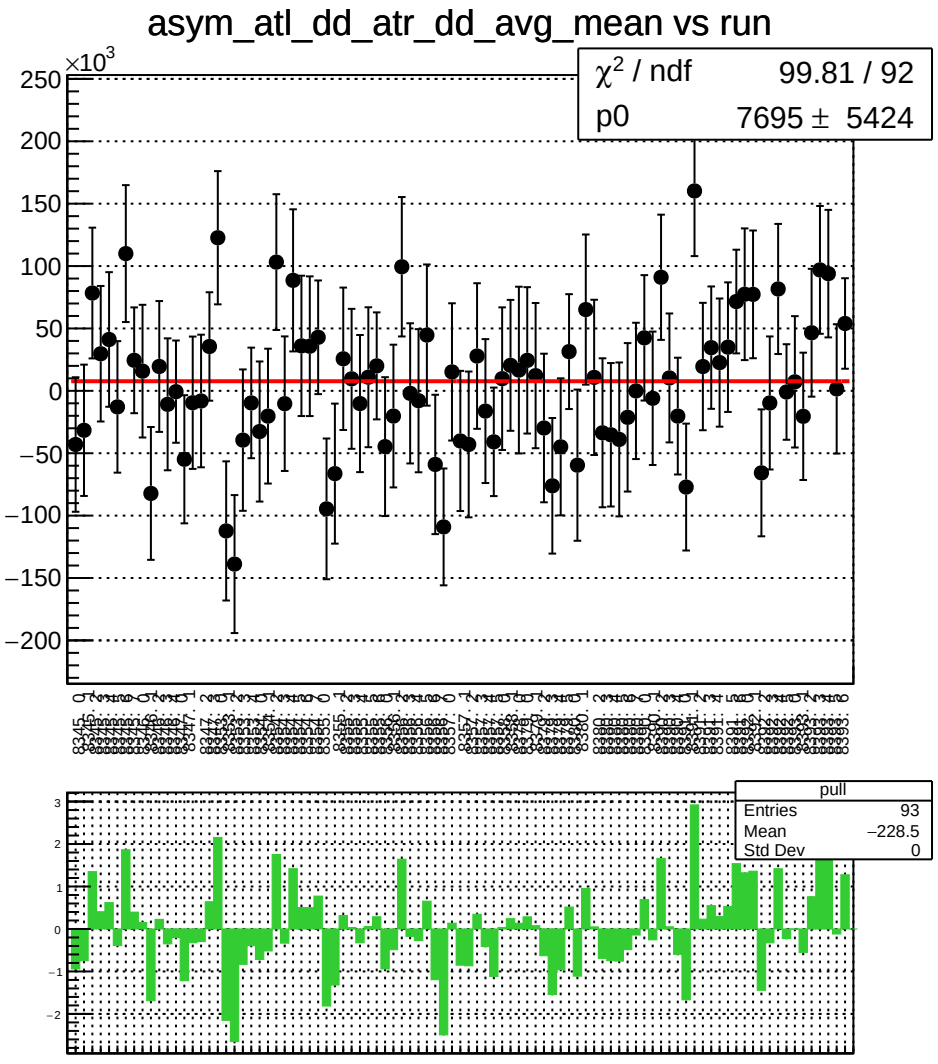

pull1D
Entries 93
Mean −0.00494
Std Dev 1.037
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

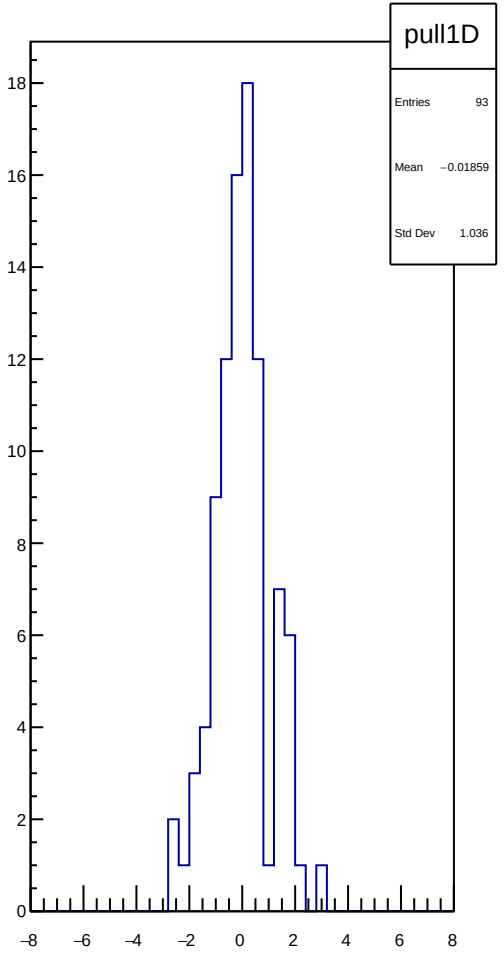

eigen_dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 806.3 / 92
p0 1303 ± 0.9666
1360
1340
1320
1300
1280
1260
1240

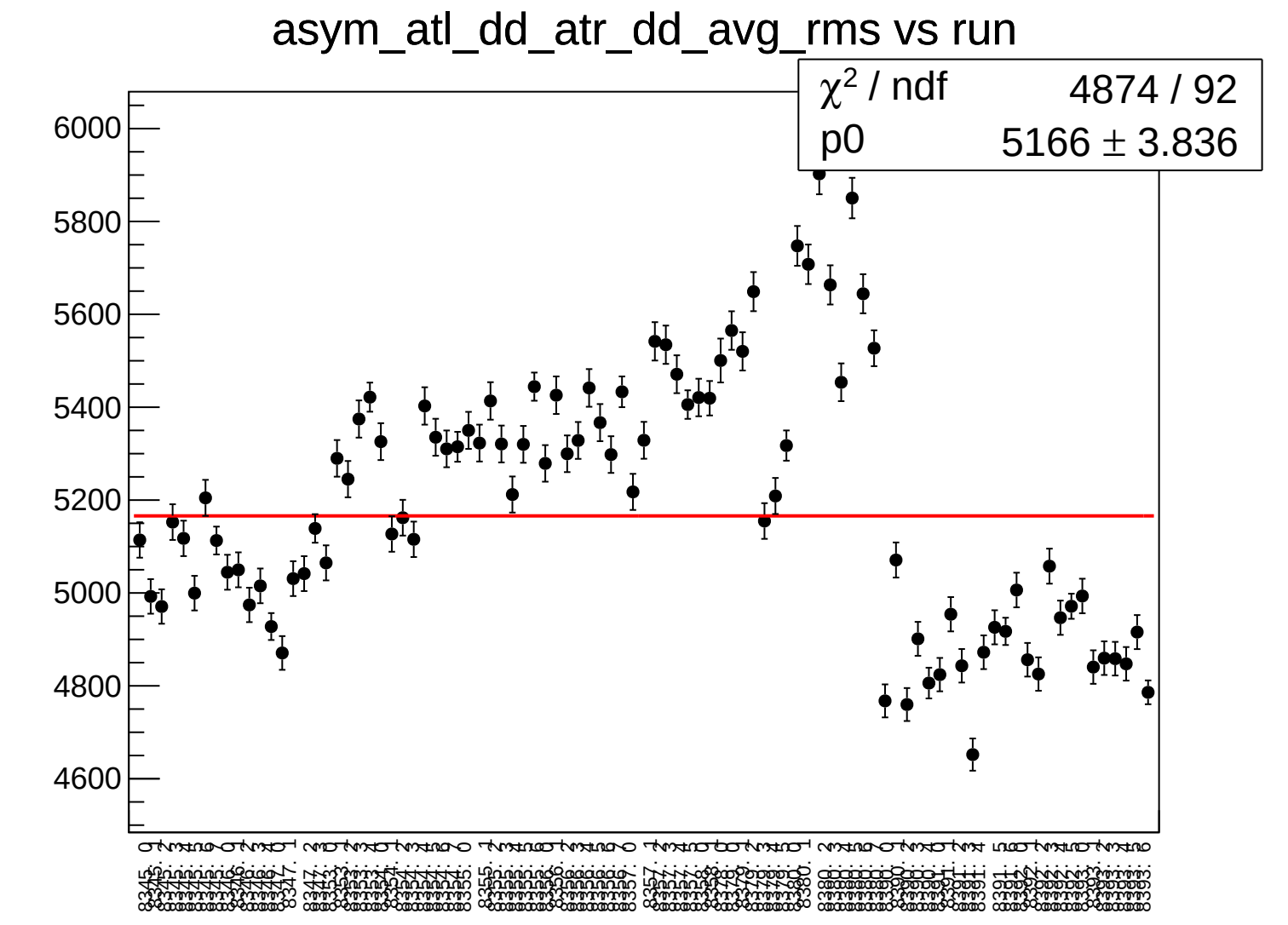

asym_atl_dd_atr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 96.78 / 92
p0 −9880 ± 5267
pull
Entries 93
Mean −267.9
Std Dev 0

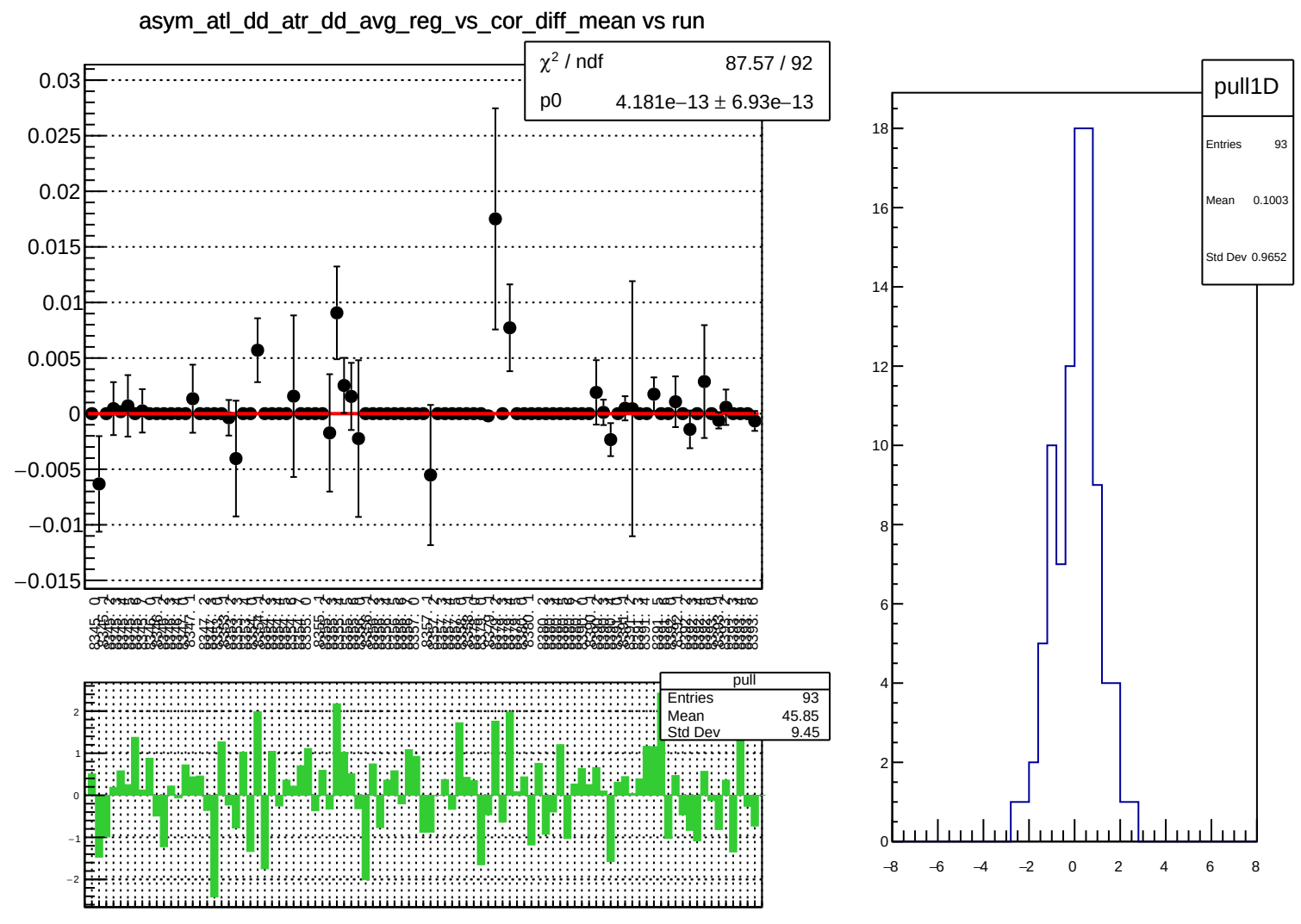

pull1D
Entries 93
Mean 0.01648
Std Dev 1.02

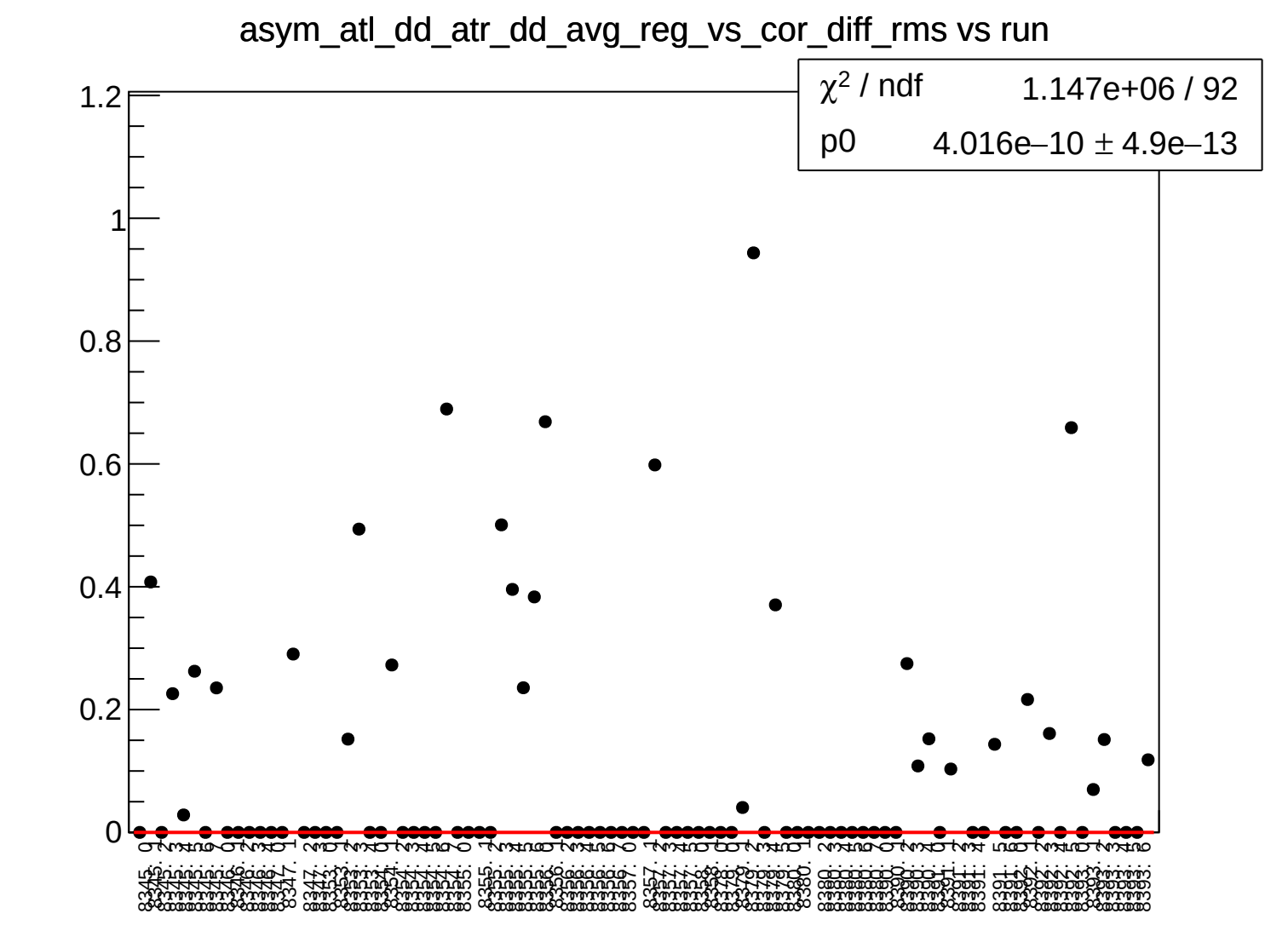

asym_atl_dd_atr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 5039 / 92
p0 5016 ± 3.724
5800
5600
5400
5200
5000
4800
4600
4400

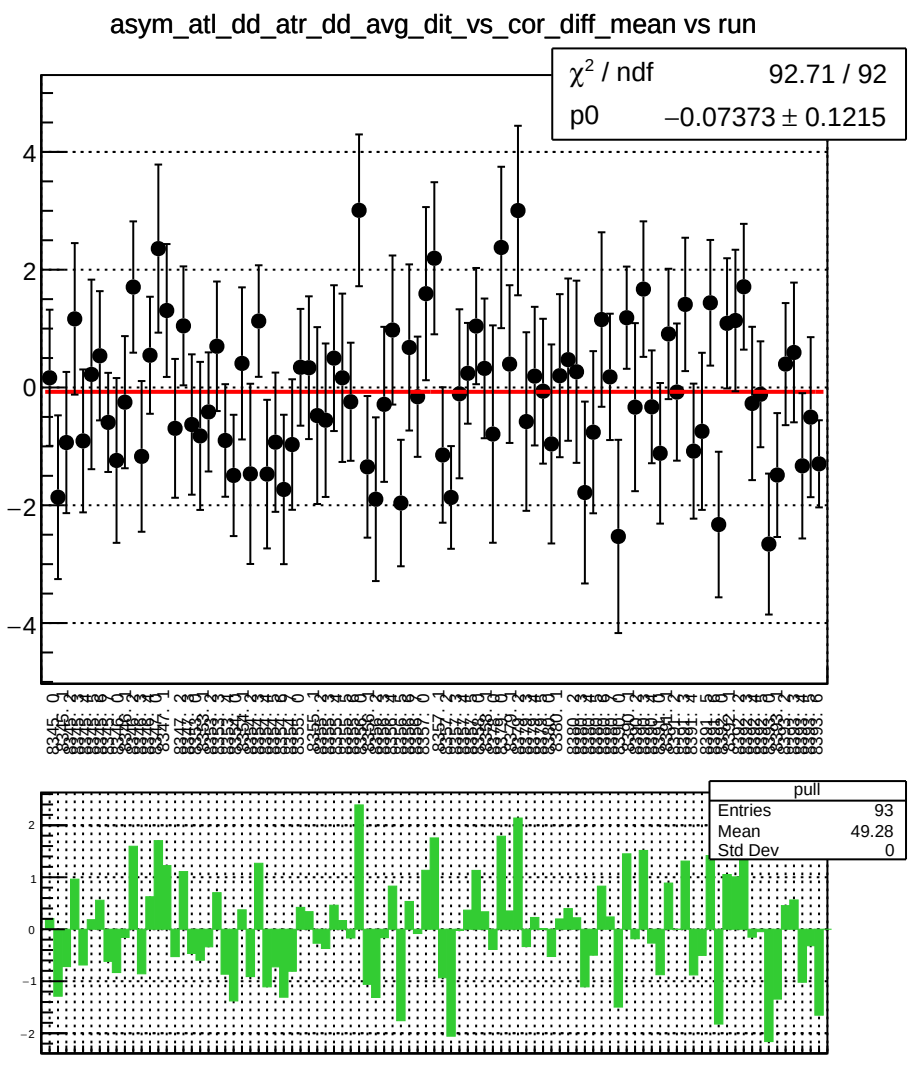

asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 99.81 / 92
p0 7695 ± 5424
pull
Entries 93
Mean −228.5
Std Dev 0

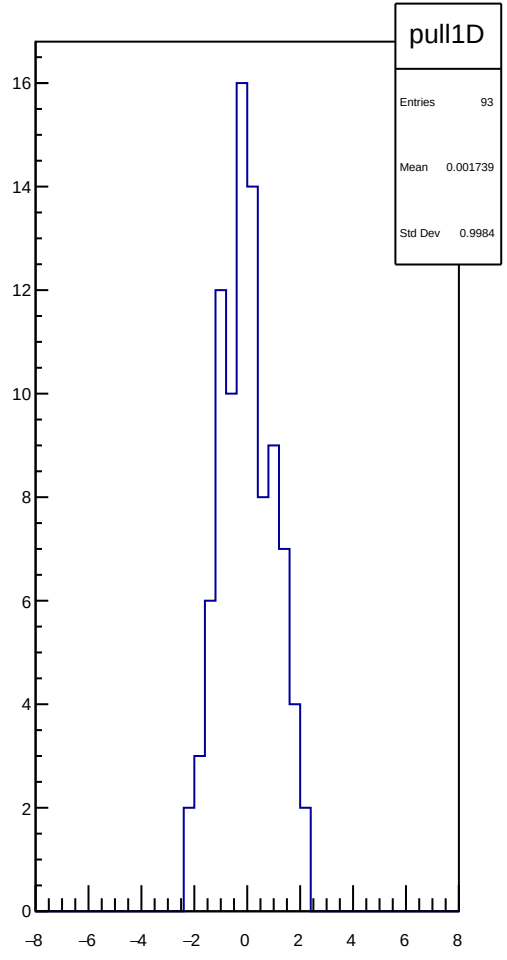

pull1D
Entries 93
Mean −0.01859
Std Dev 1.036

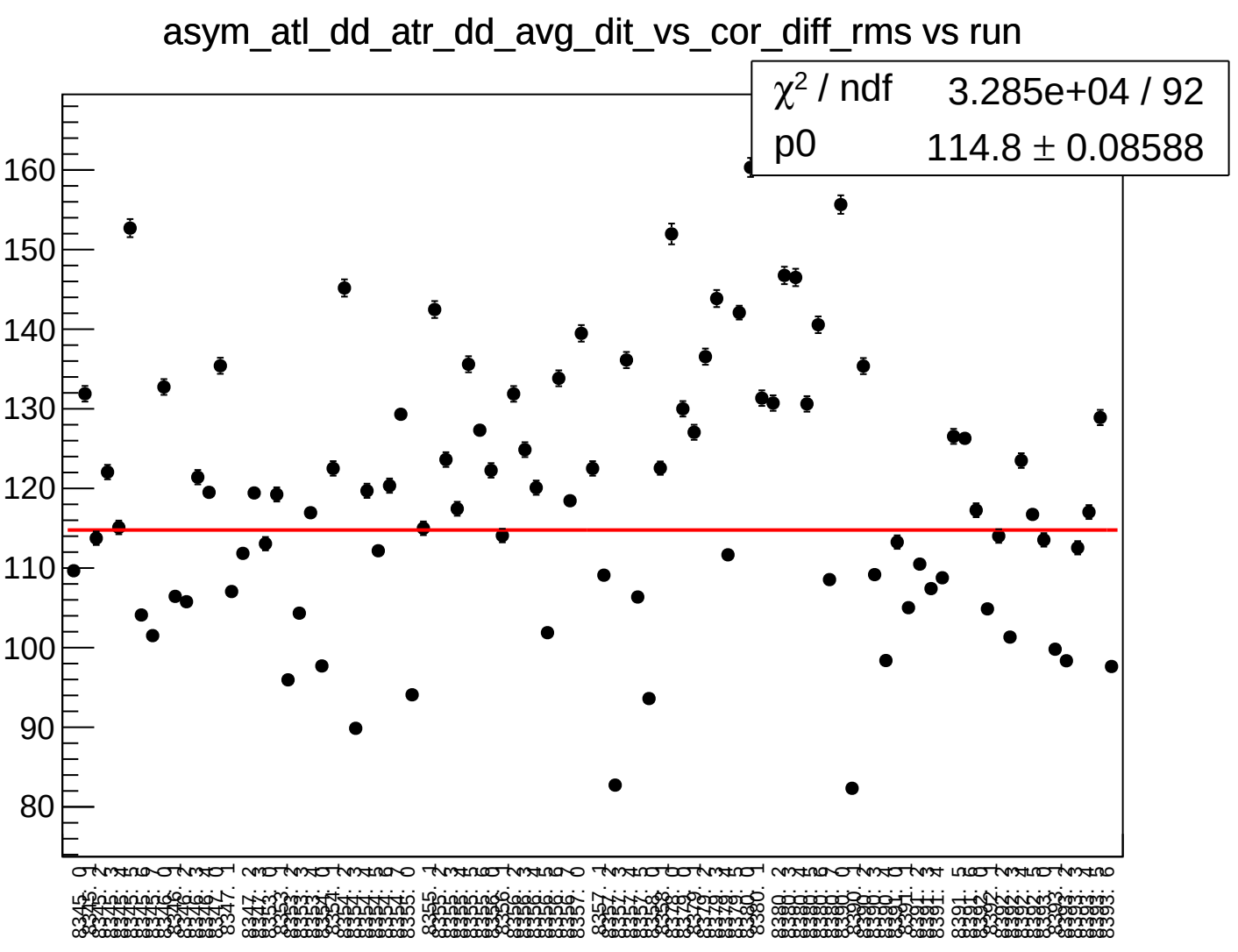

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 4874 / 92
p0 5166 ± 3.836
6000
5800
5600
5400
5200
5000
4800
4600

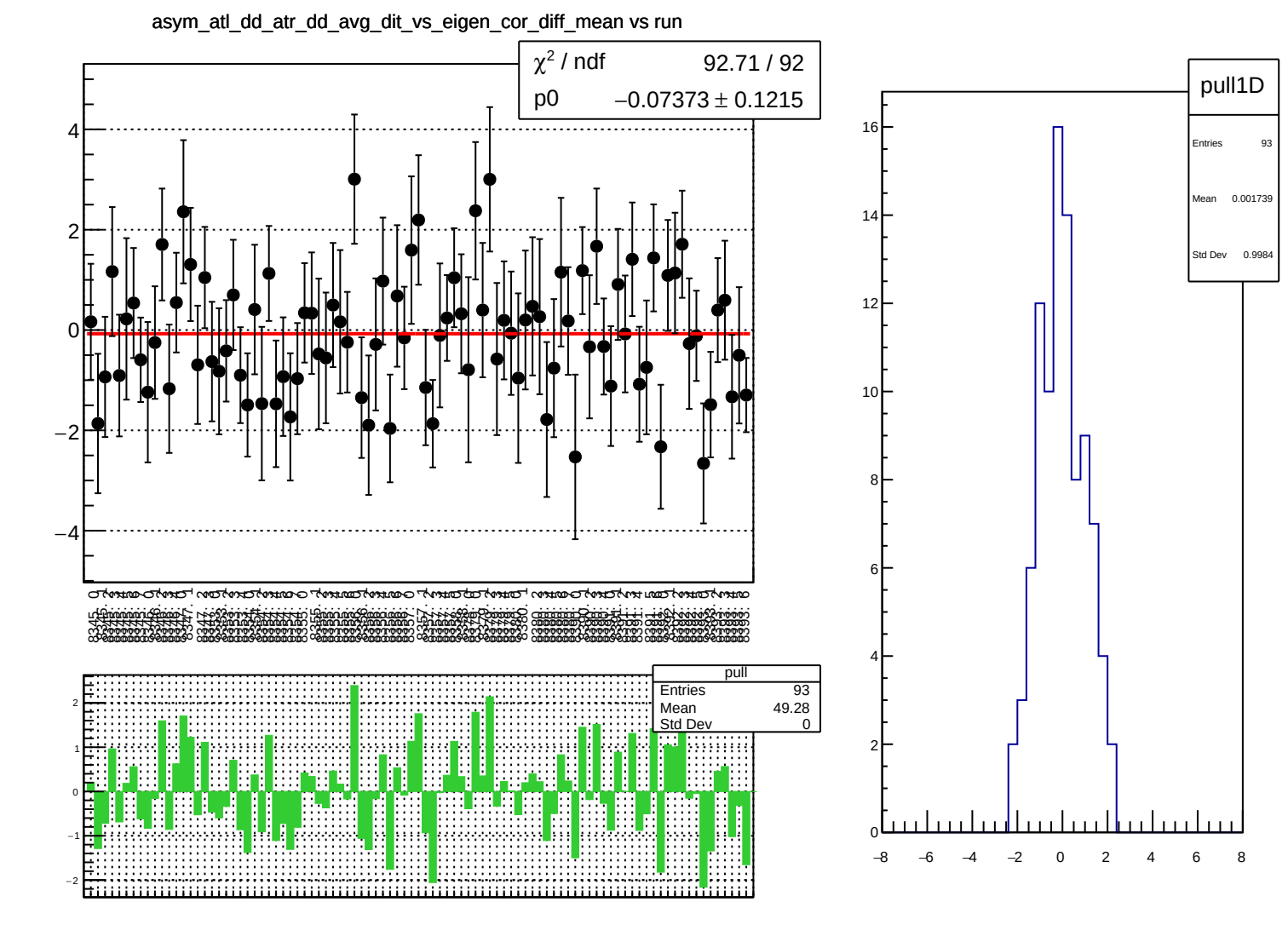

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 87.57 / 92
p0 4.181e−13 ± 6.93e−13
0.03
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 93
Mean 45.85
Std Dev 9.45
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.1003
Std Dev 0.9652
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

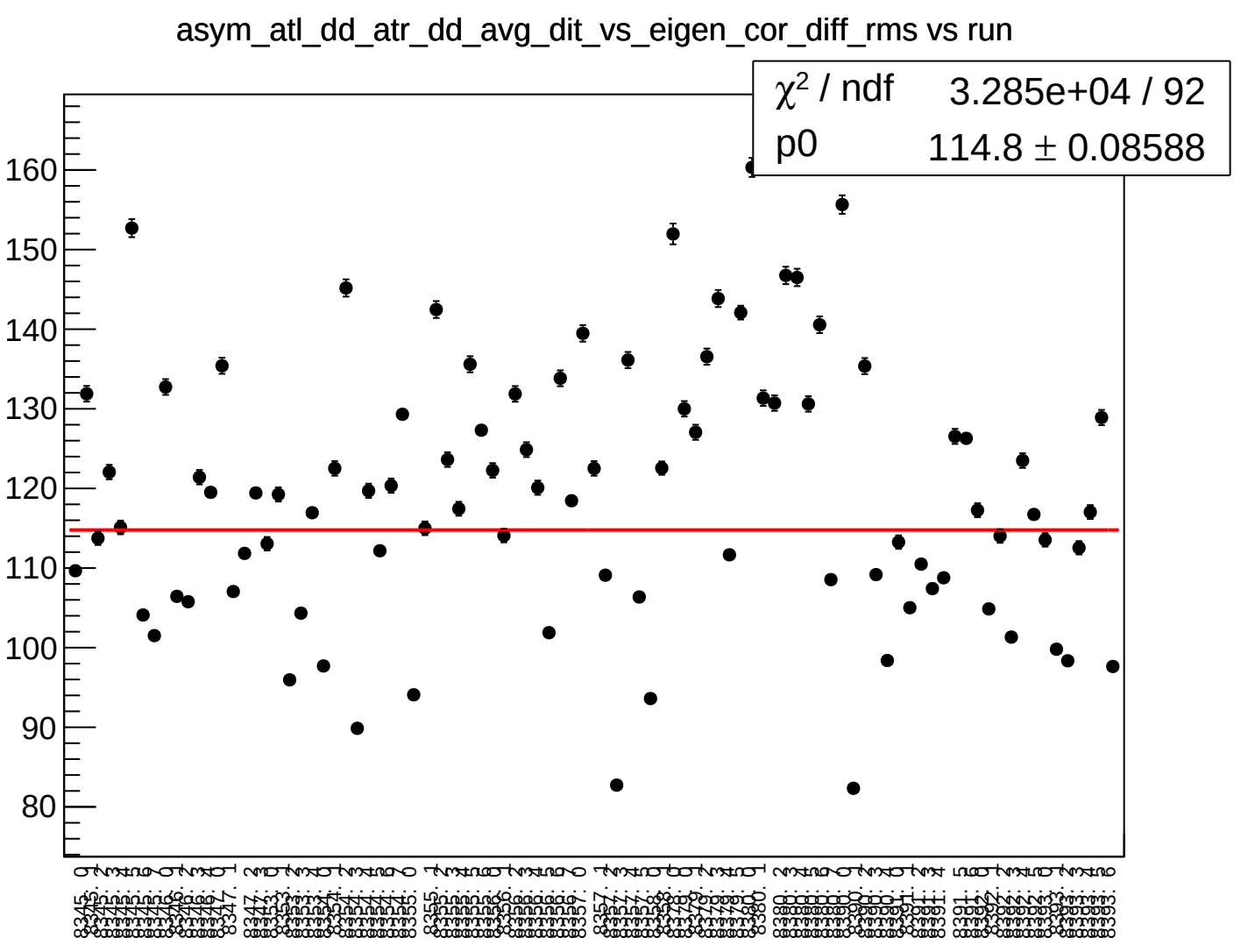

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.147e+06 / 92
p0 4.016e−10 ± 4.9e−13
1.2
1
0.8
0.6
0.4
0.2
0

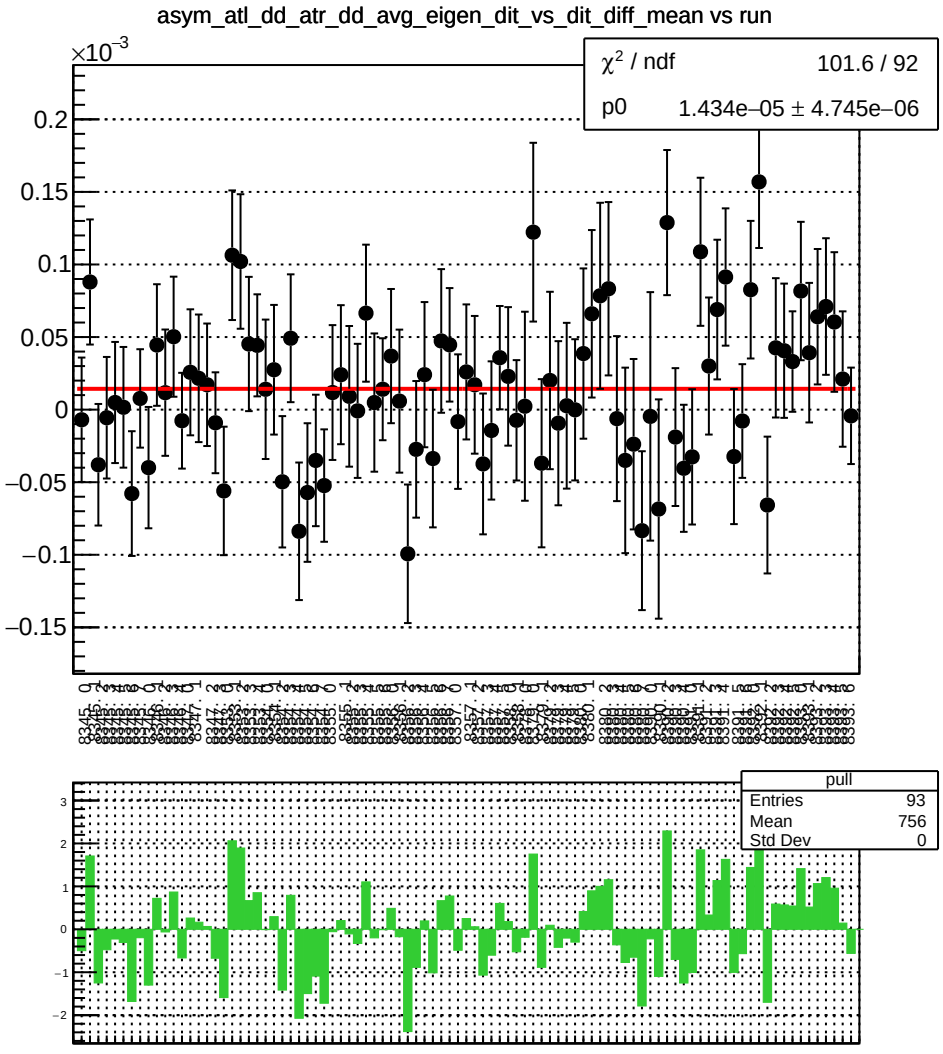

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 92.71 / 92
p0 −0.07373 ± 0.1215
pull
Entries 93
Mean 49.28
Std Dev 0

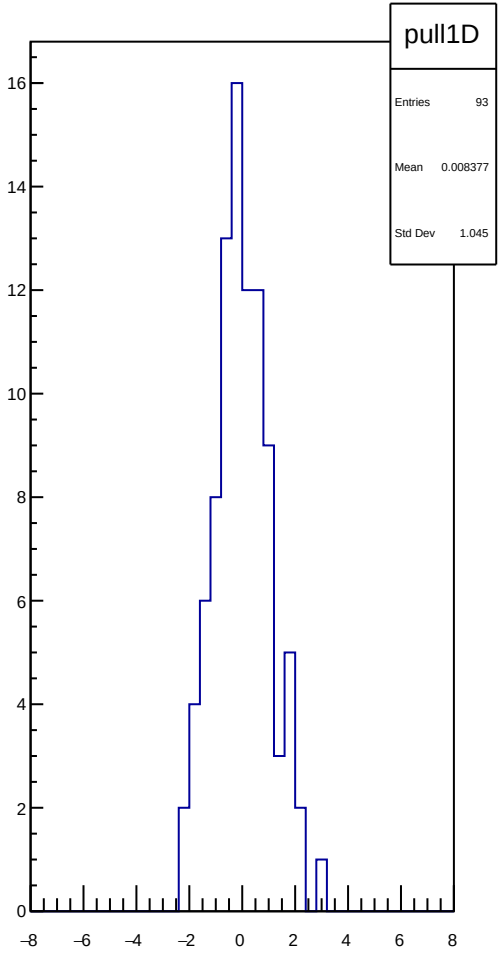

pull1D
Entries 93
Mean 0.001739
Std Dev 0.9984

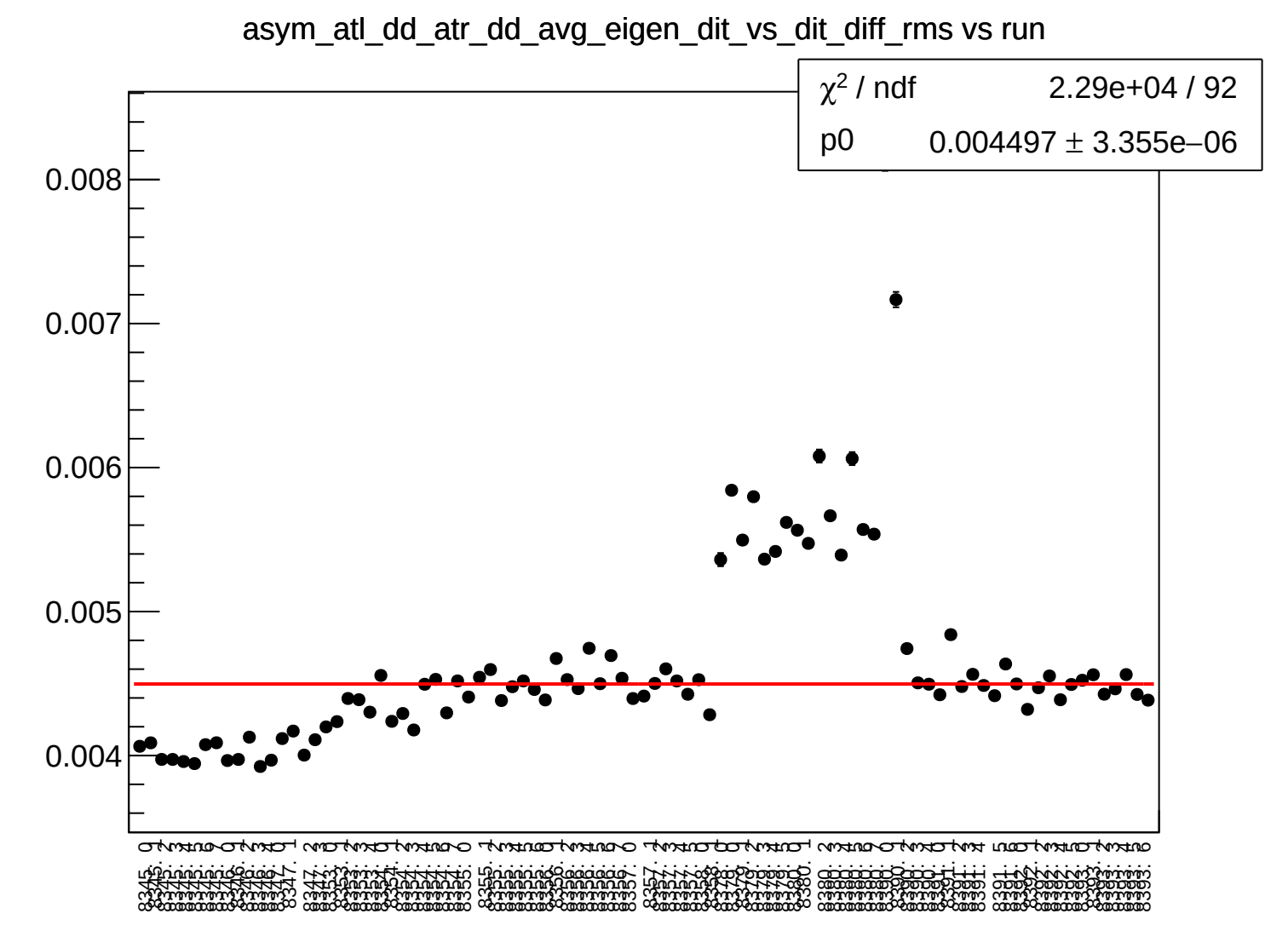

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.285e+04 / 92
p0 114.8 ± 0.08588
160
150
140
130
120
110
100
90
80

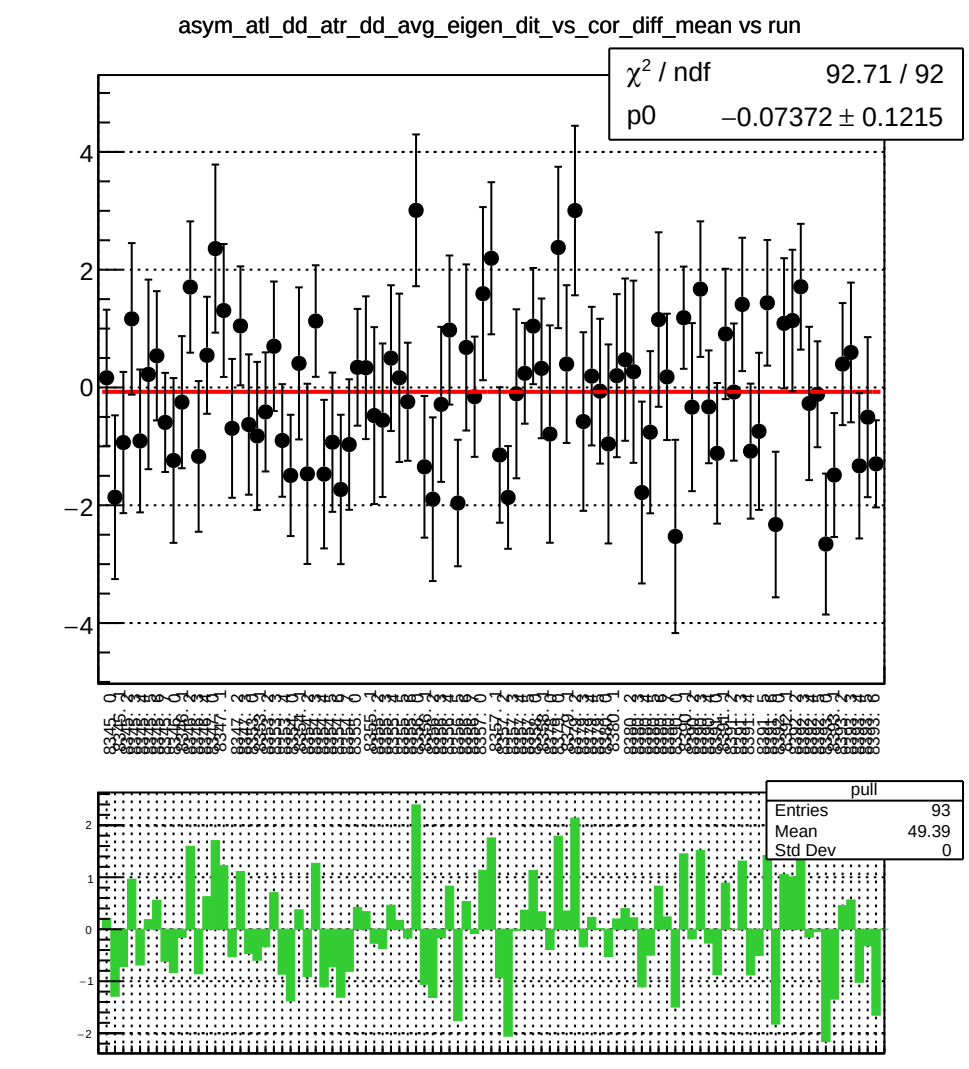

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.71 / 92
p0 −0.07373 ± 0.1215
pull
Entries 93
Mean 49.28
Std Dev 0
pull1D
Entries 93
Mean 0.001739
Std Dev 0.9984

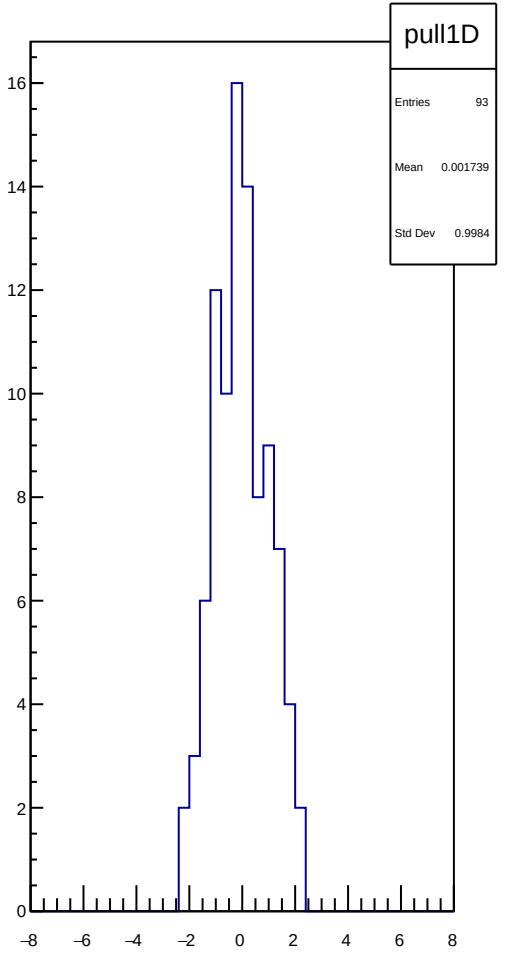

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.285e+04 / 92
p0 114.8 ± 0.08588
160
150
140
130
120
110
100
90
80

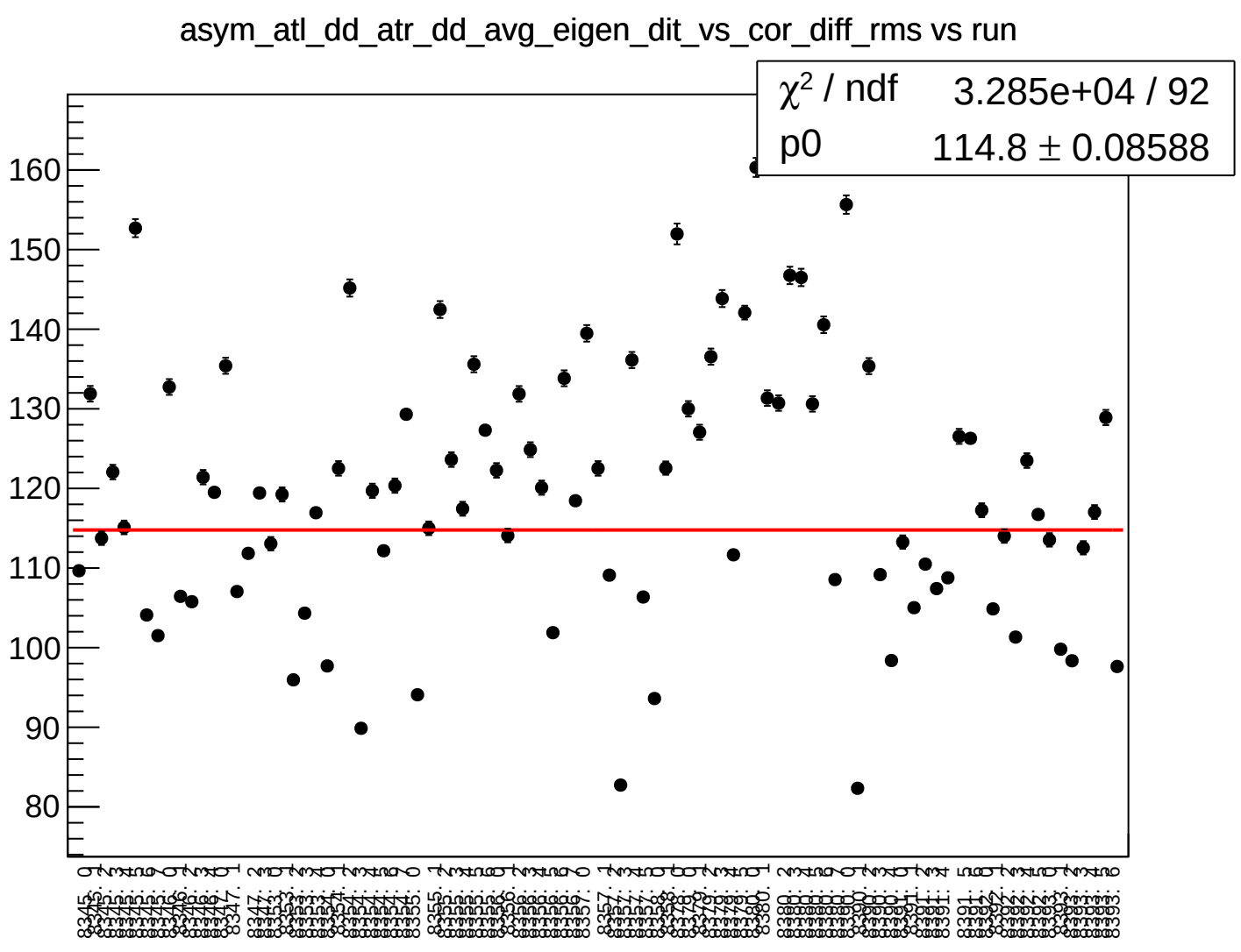

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 101.6 / 92
p0 1.434e−05 ± 4.745e−06
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 93
Mean 756
Std Dev 0
3
2
1
0
−1
−2

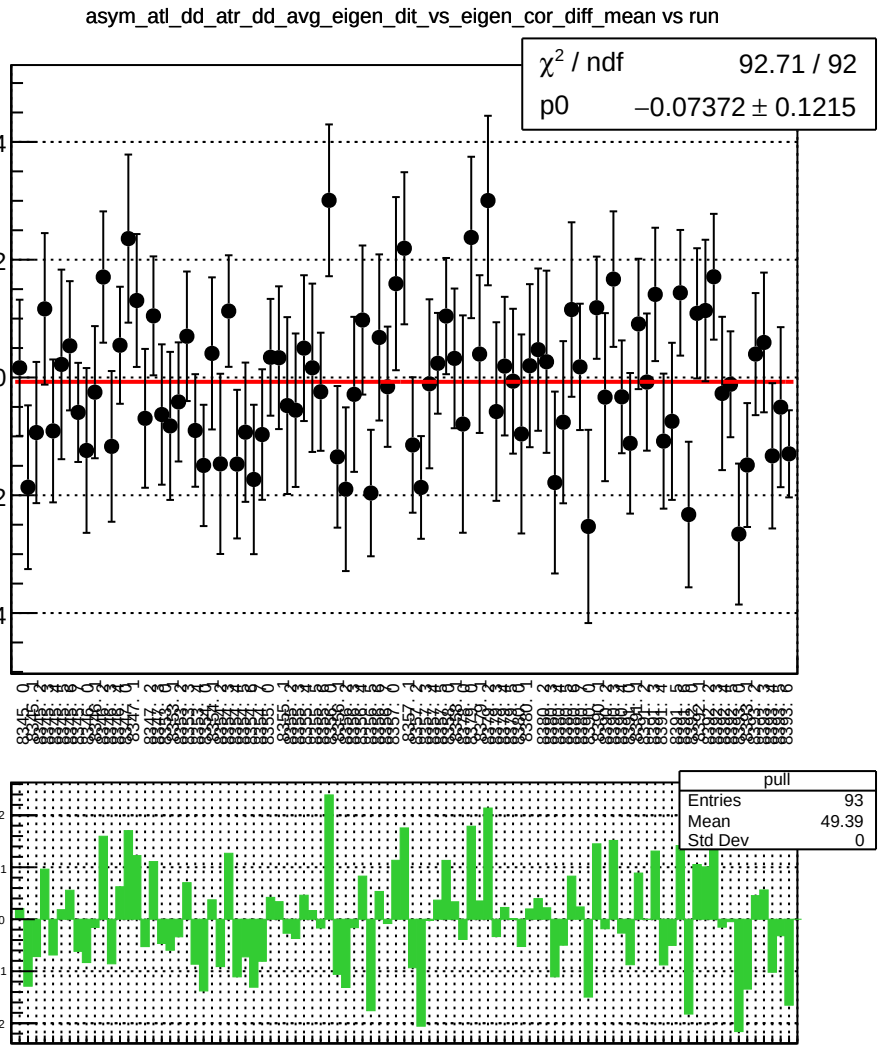

pull1D
Entries 93
Mean 0.008377
Std Dev 1.045
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

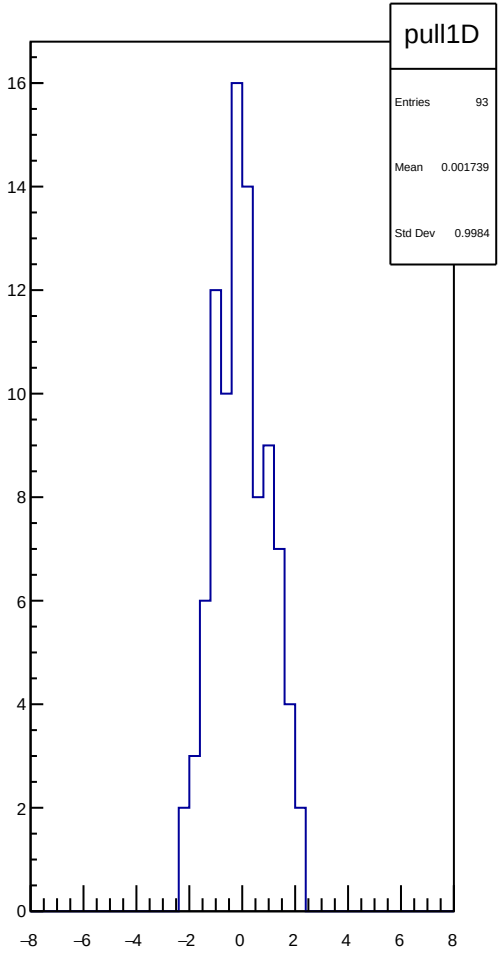

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.29e+04 / 92
p0 0.004497 ± 3.355e−06
0.008
0.007
0.006
0.005
0.004

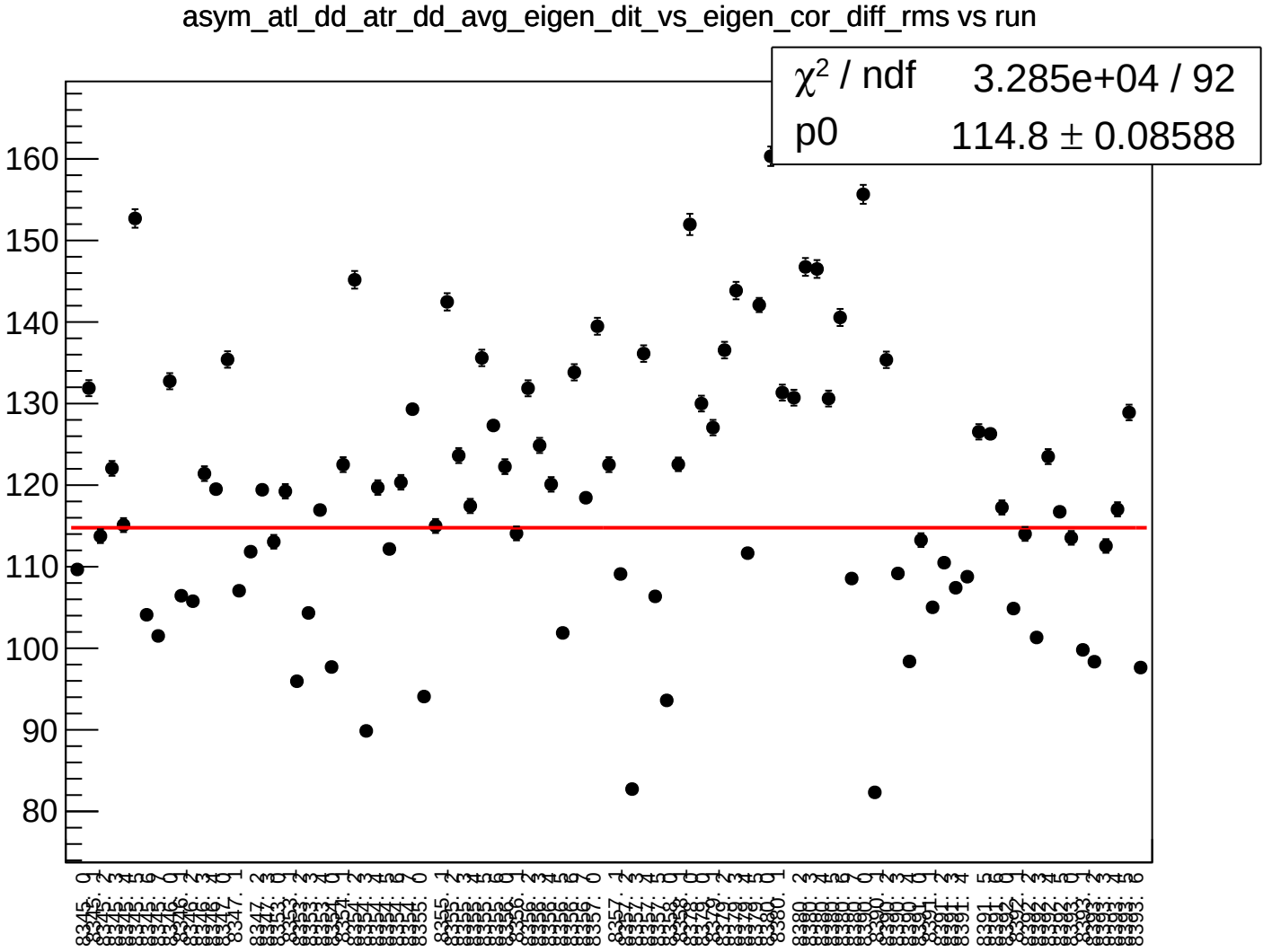

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.71 / 92
p0 −0.07372 ± 0.1215
pull
Entries 93
Mean 49.39
Std Dev 0

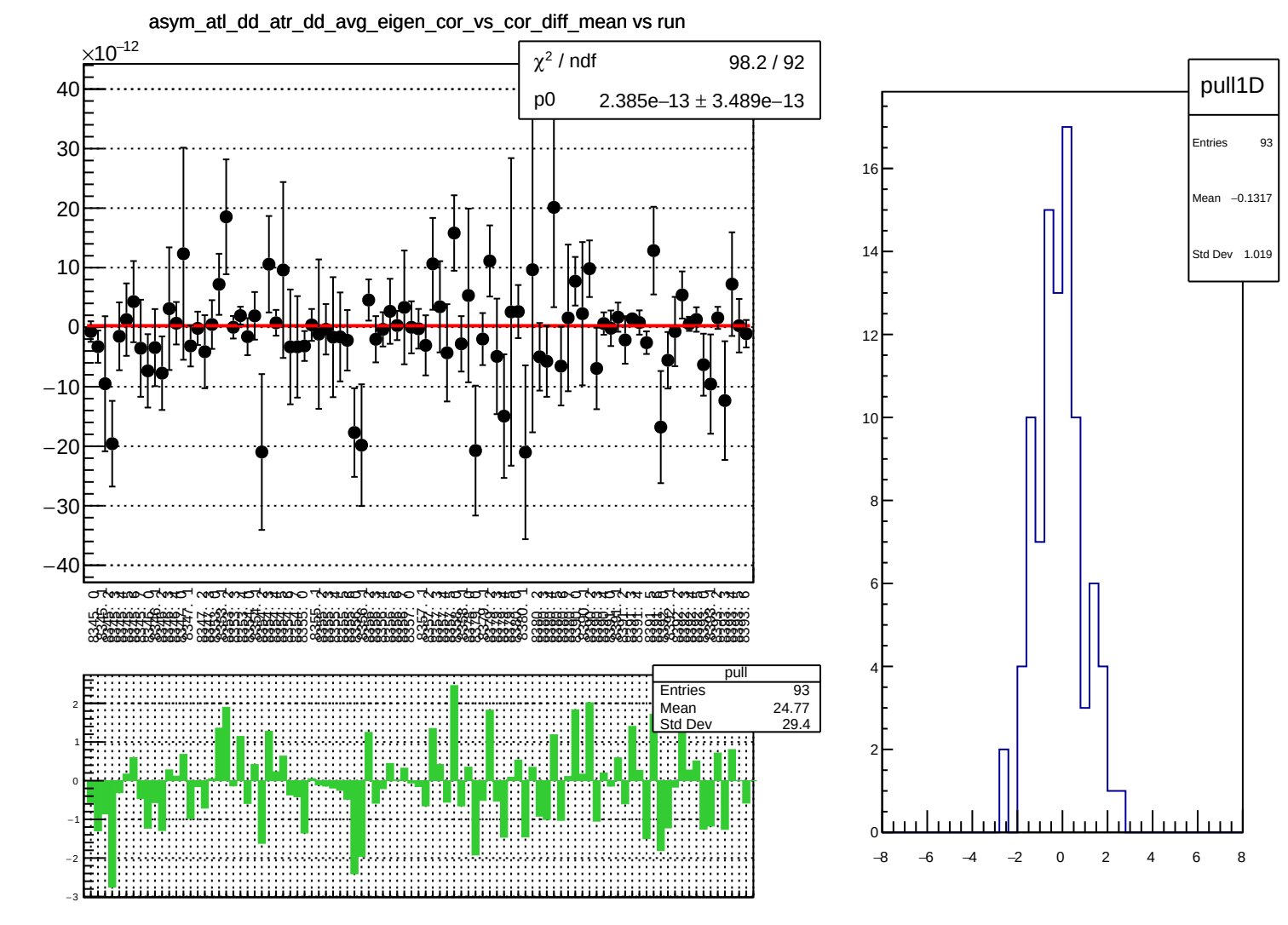

pull1D
Entries 93
Mean 0.001739
Std Dev 0.9984

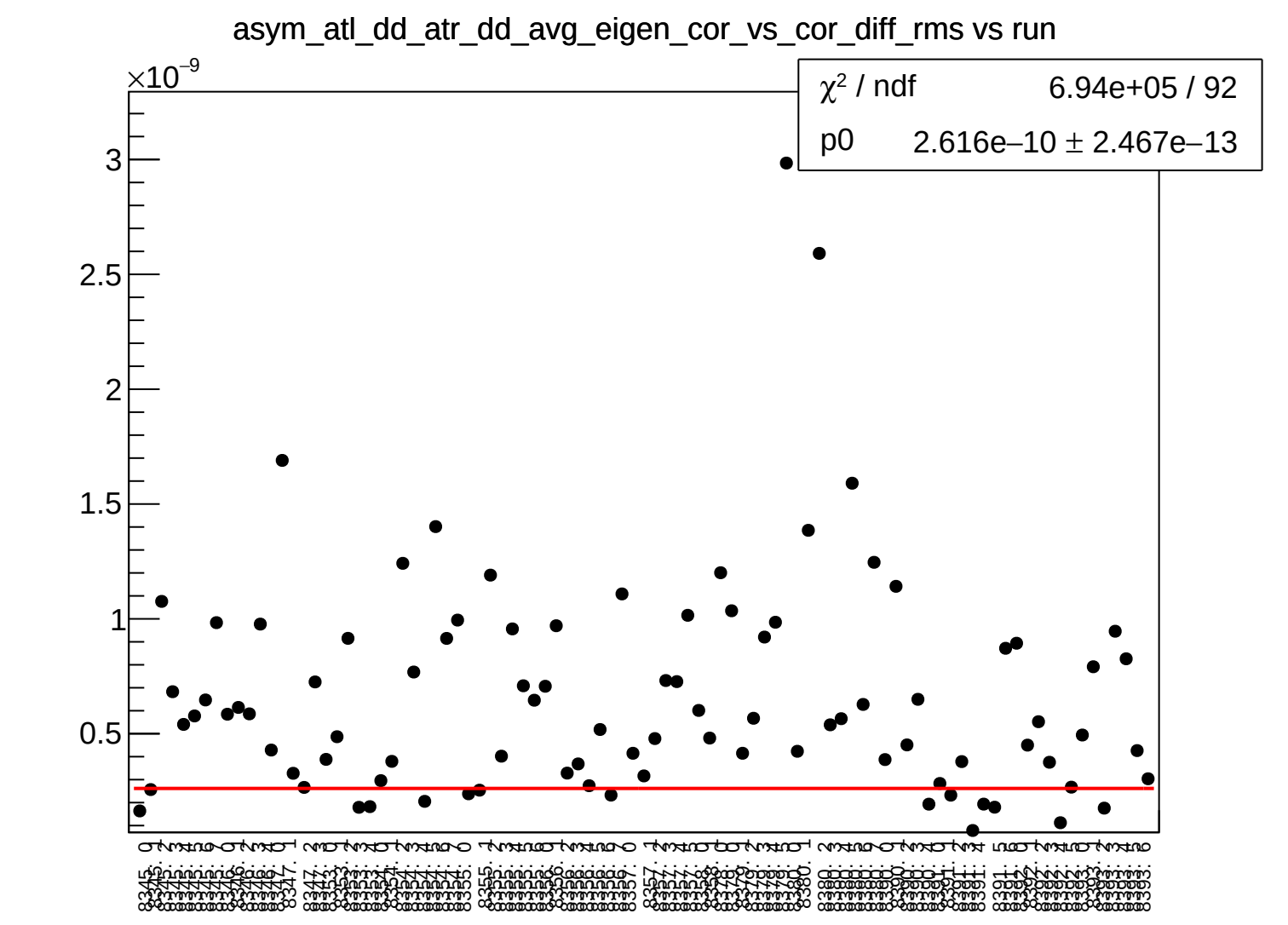

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.285e+04 / 92
p0 114.8 ± 0.08588
160
150
140
130
120
110
100
90
80

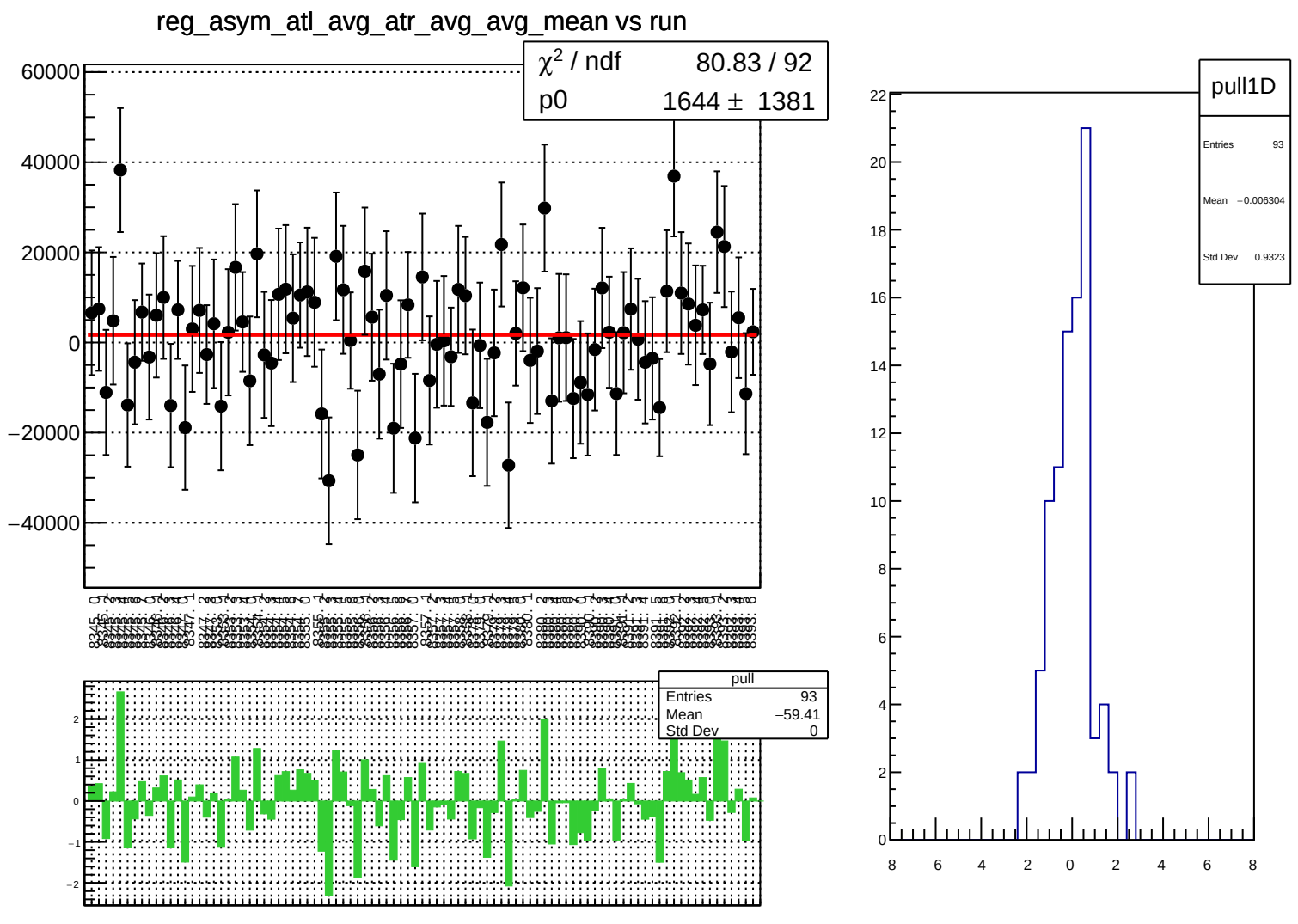

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.71 / 92
p0 −0.07372 ± 0.1215
pull
Entries 93
Mean 49.39
Std Dev 0

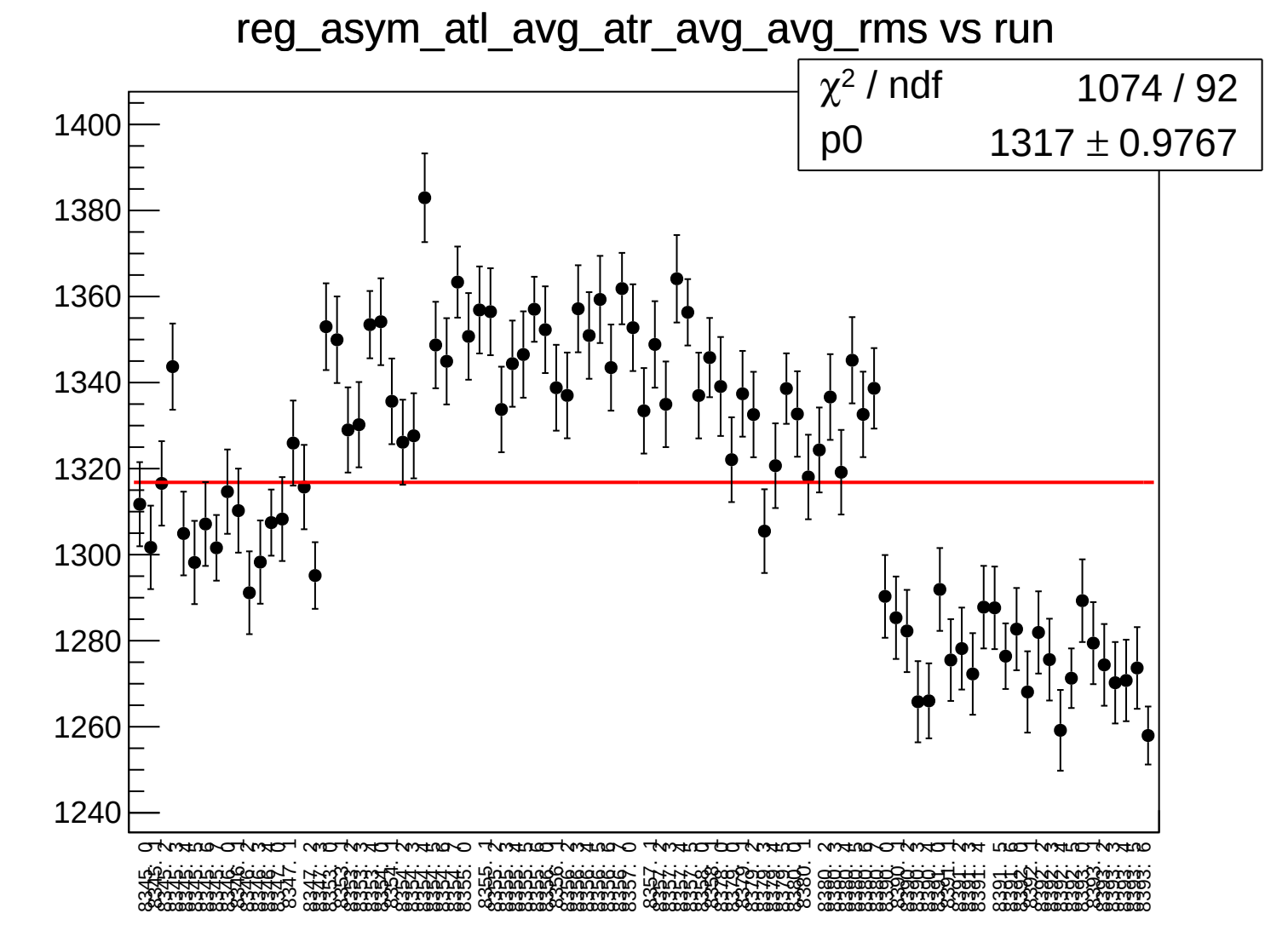

pull1D
Entries 93
Mean 0.001739
Std Dev 0.9984

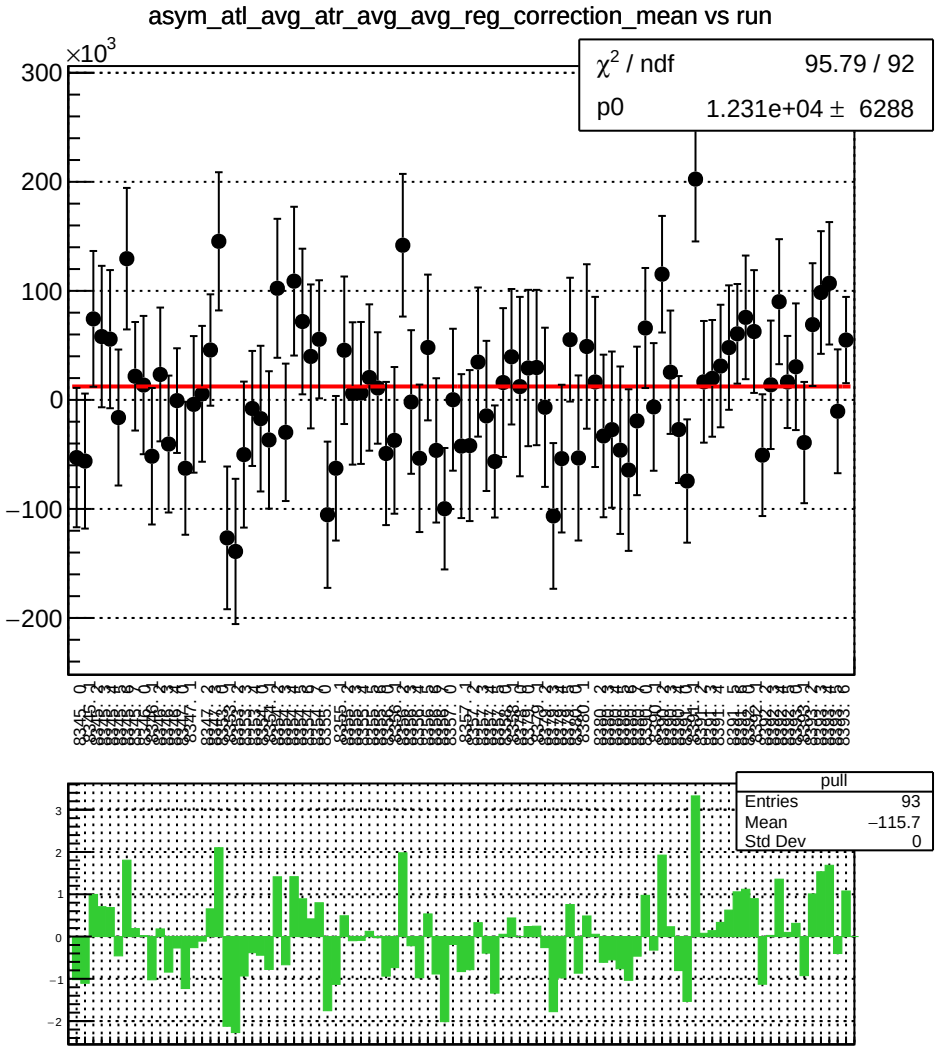

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.285e+04 / 92
p0 114.8 ± 0.08588
160
150
140
130
120
110
100
90
80

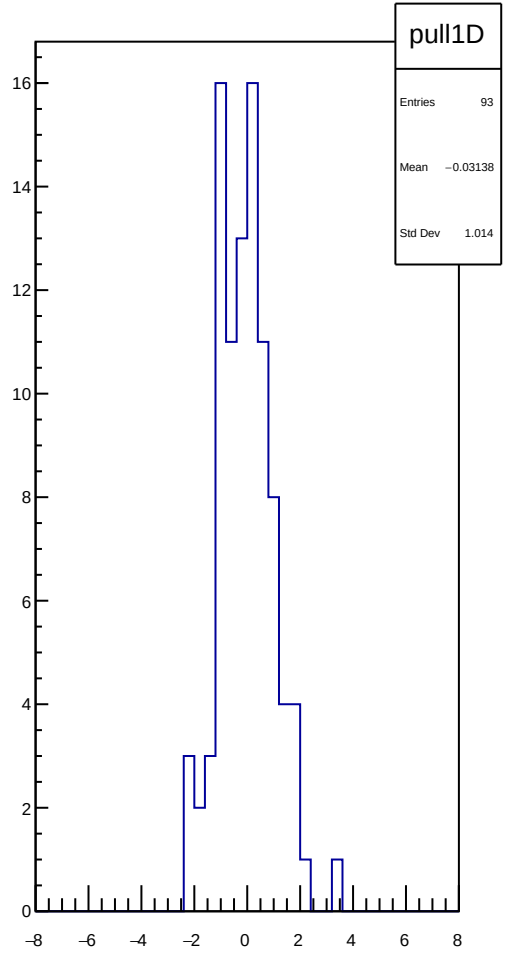

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.2 / 92
p0 2.385e−13 ± 3.489e−13
pull
Entries 93
Mean 24.77
Std Dev 29.4
pull1D
Entries 93
Mean −0.1317
Std Dev 1.019

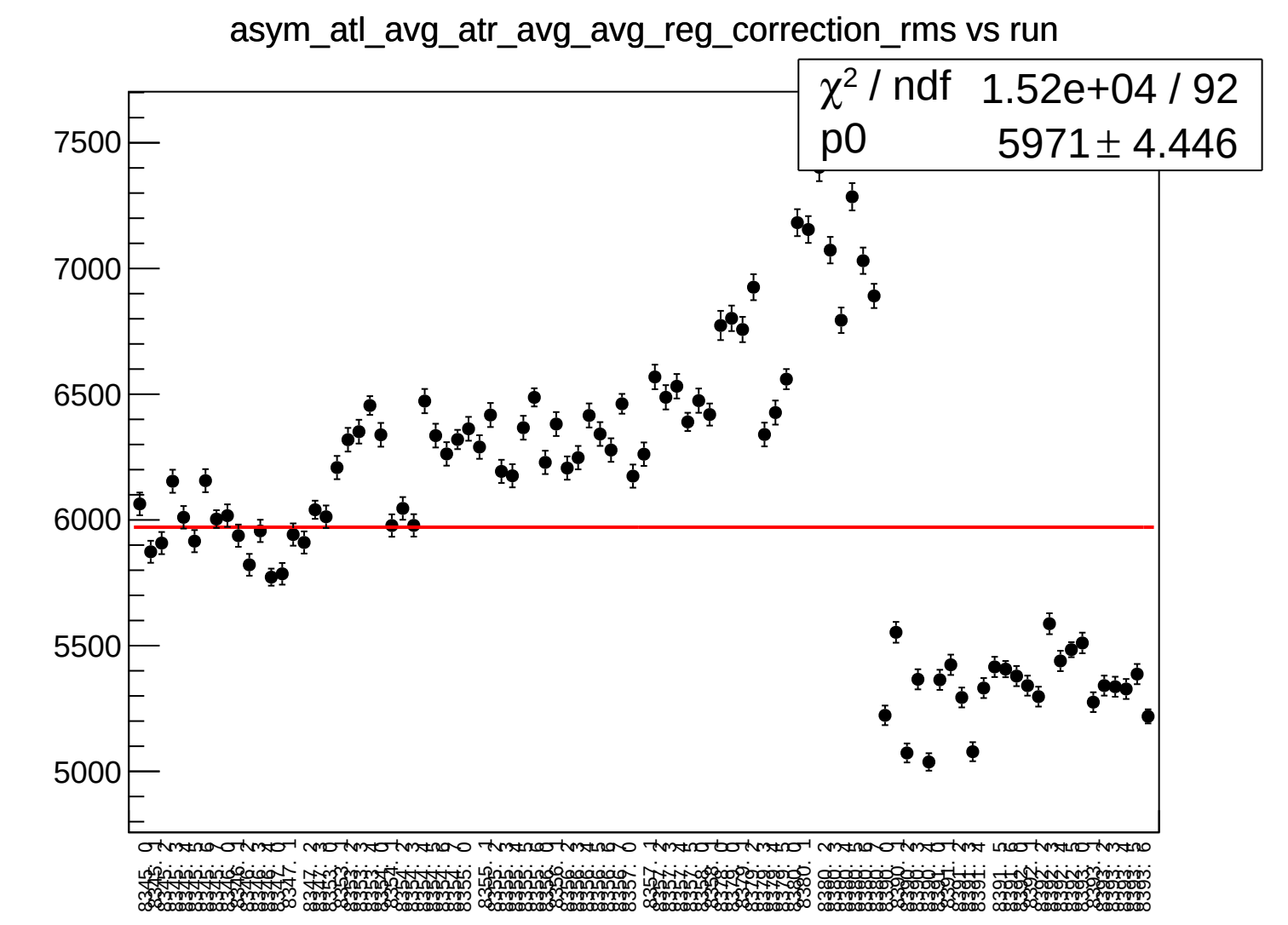

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.94e+05 / 92
p0 2.616e−10 ± 2.467e−13
3
2.5
2
1.5
1
0.5

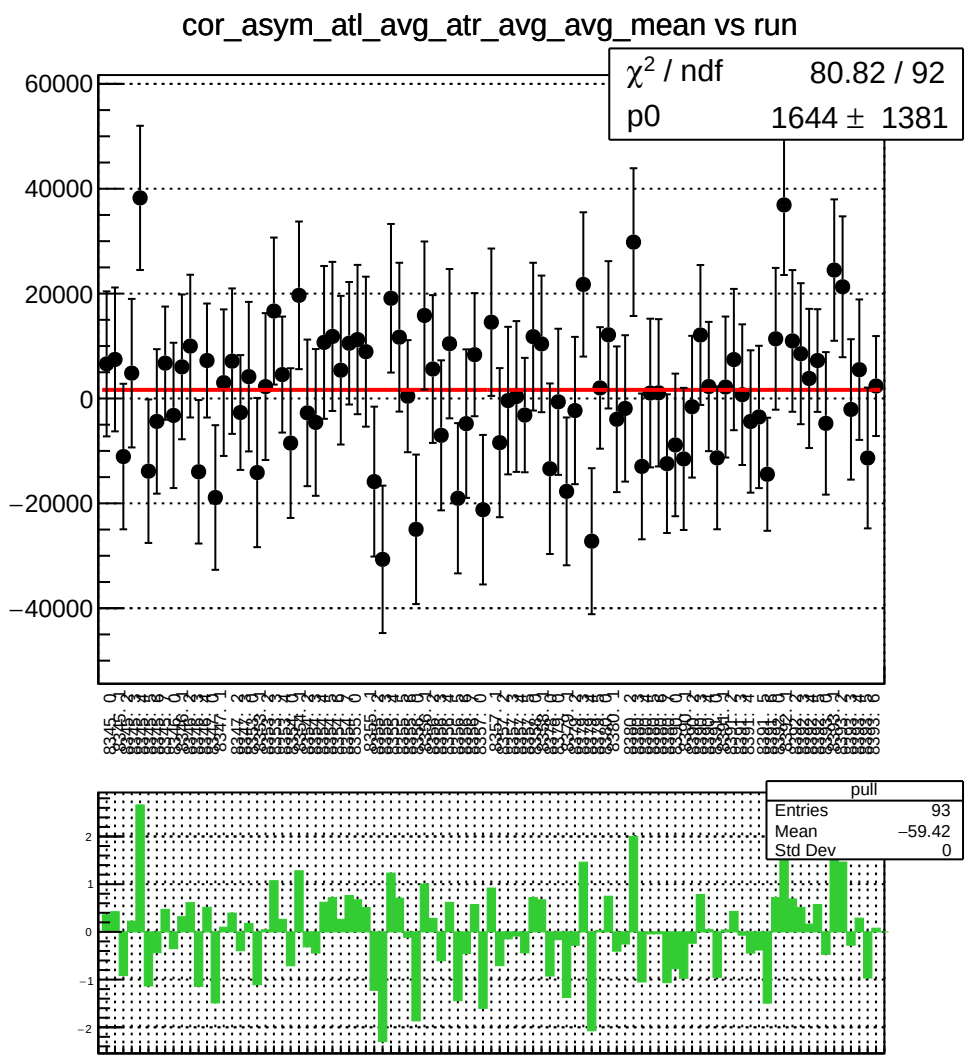

reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 80.83 / 92
p0 1644 ± 1381
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −59.41
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.006304
Std Dev 0.9323
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

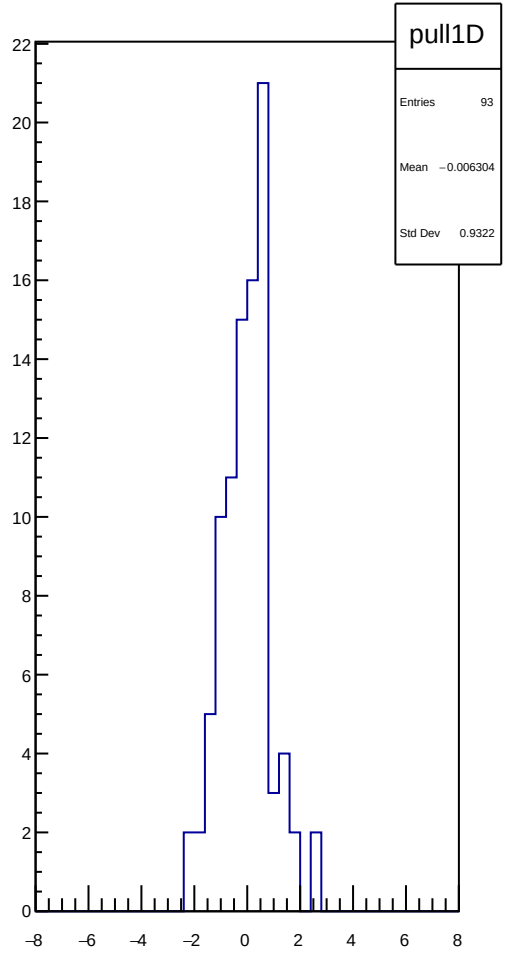

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1074 / 92
p0 1317 ± 0.9767
1400
1380
1360
1340
1320
1300
1280
1260
1240

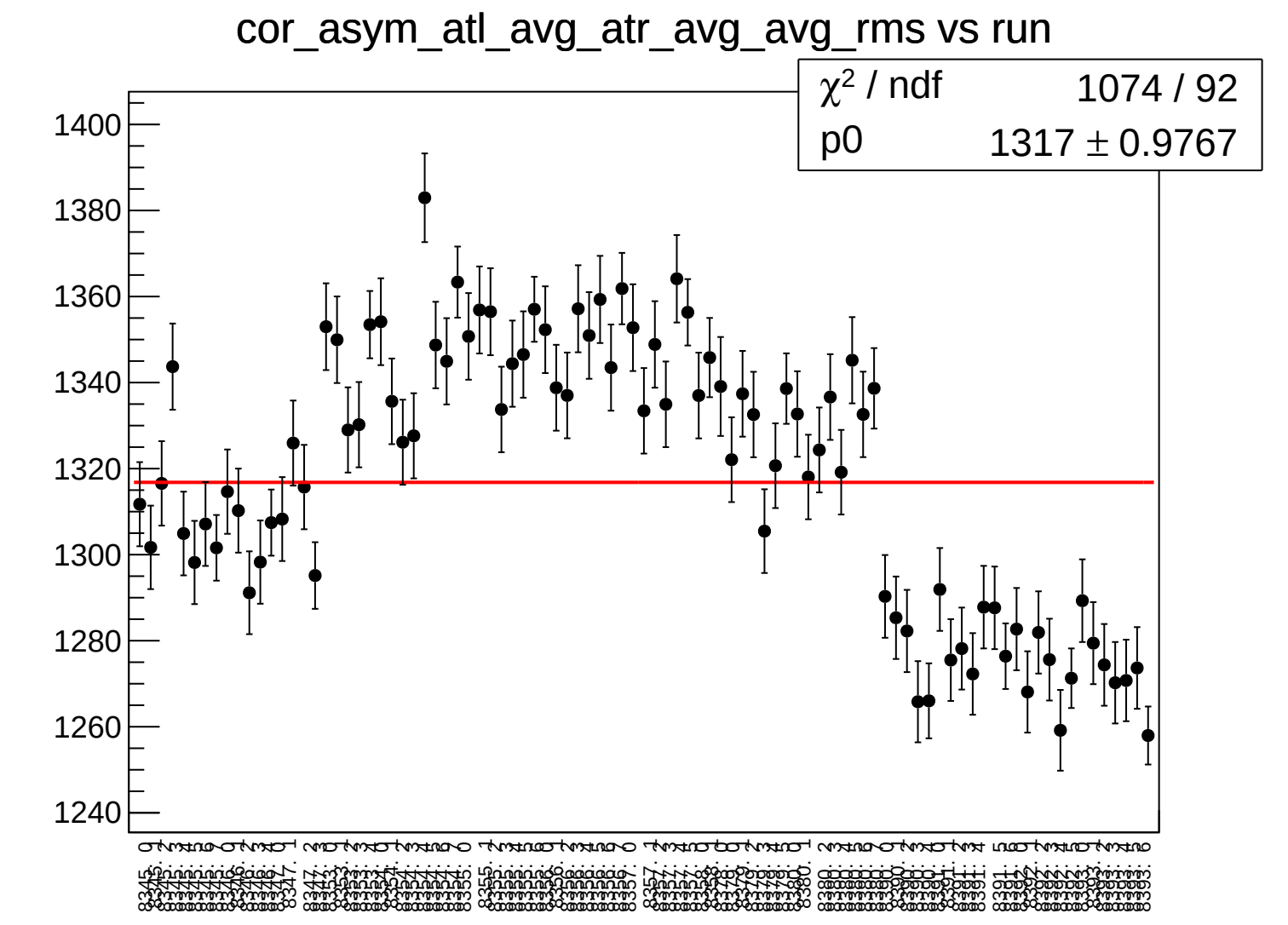

asym_atl_avg_atr_avg_avg_reg_correction_mean vs run
χ² / ndf 95.79 / 92
p0 1.231e+04 ± 6288
×10³
300
200
100
0
−100
−200
pull
Entries 93
Mean −115.7
Std Dev 0
3
2
1
0
−1
−2

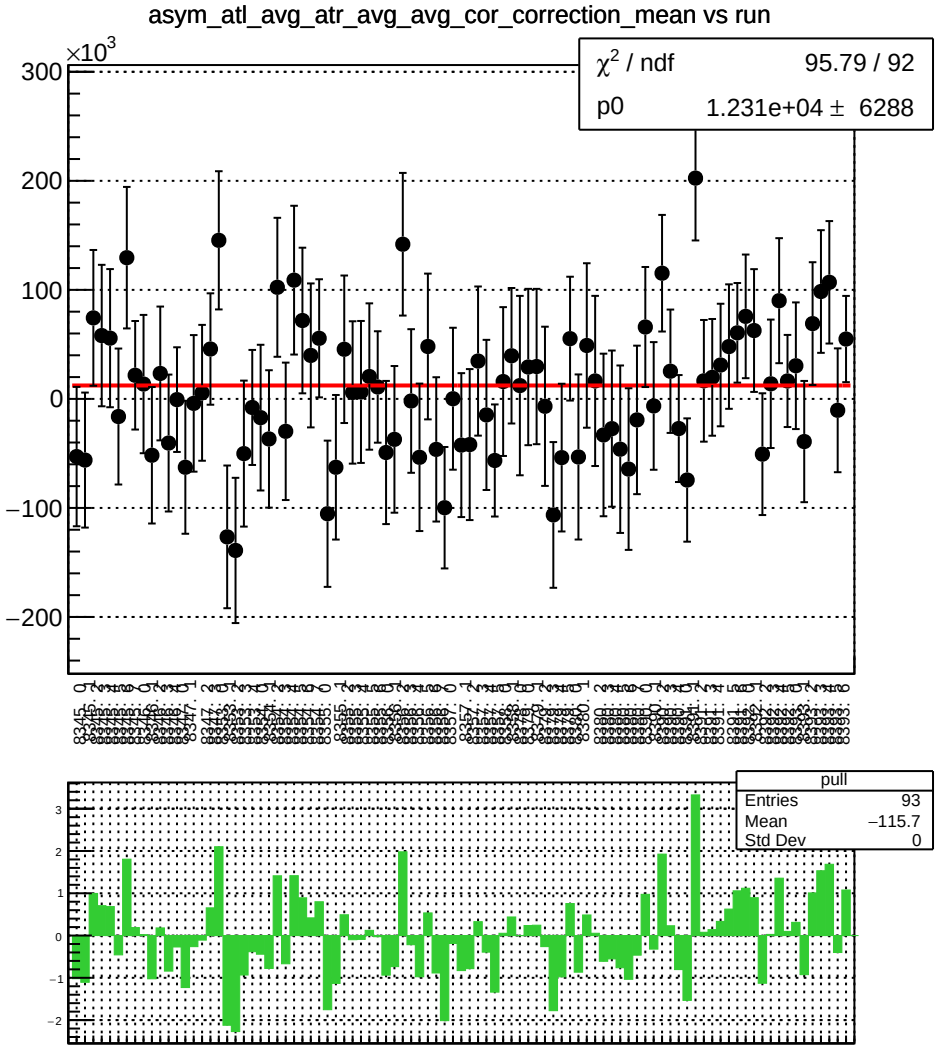

pull1D
Entries 93
Mean −0.03138
Std Dev 1.014
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

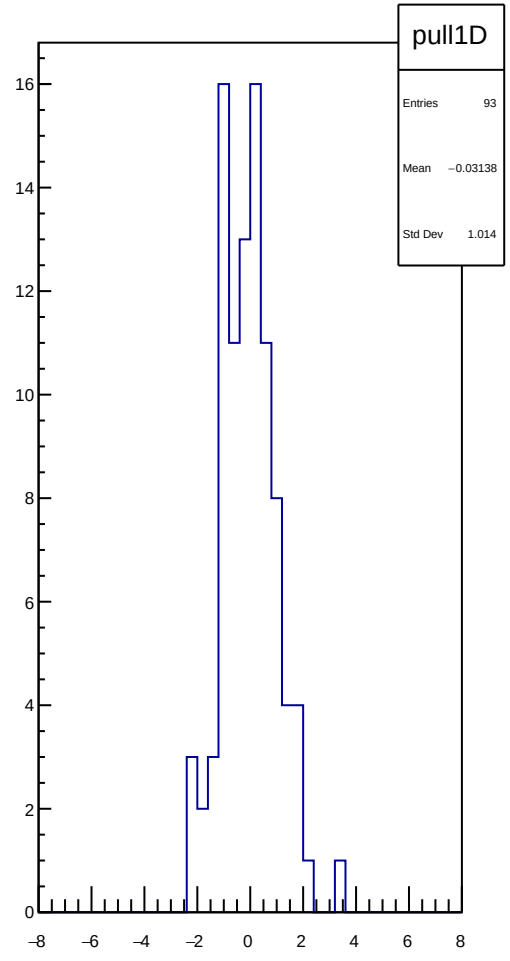

asym_atl_avg_atr_avg_avg_reg_correction_rms vs run
χ² / ndf 1.52e+04 / 92
p0 5971 ± 4.446
7500
7000
6500
6000
5500
5000

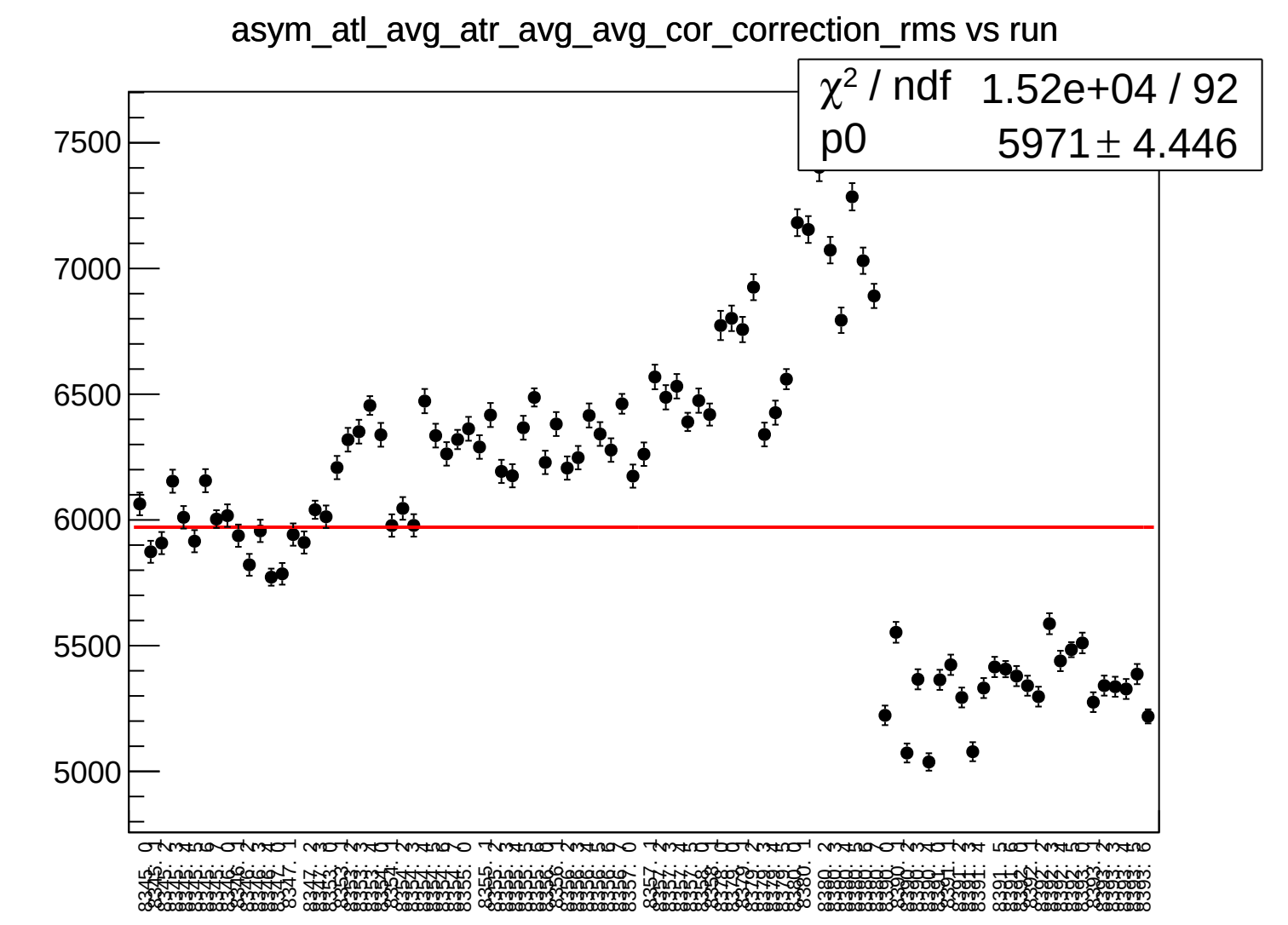

cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 80.82 / 92
p0 1644 ± 1381
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −59.42
Std Dev 0
2
1
0
−1
−2

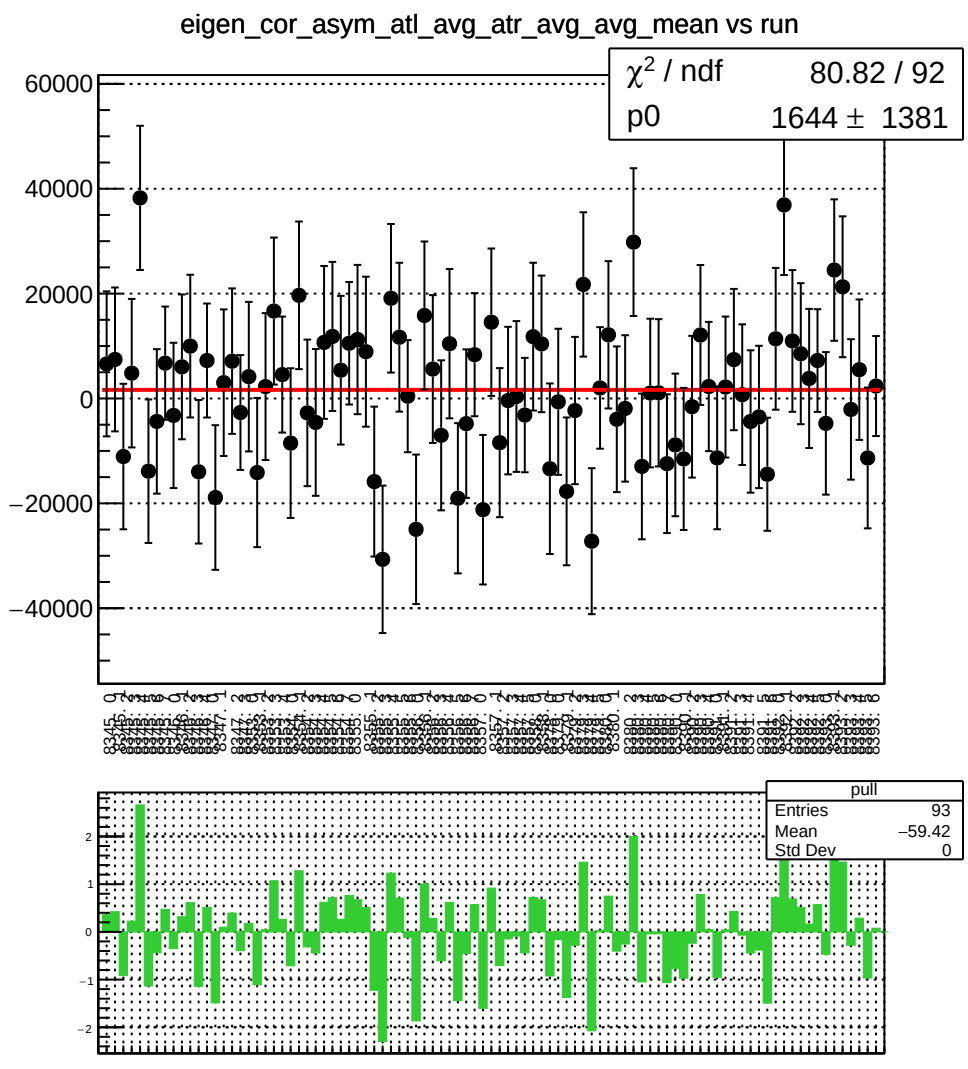

pull1D
Entries 93
Mean −0.006304
Std Dev 0.9322
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

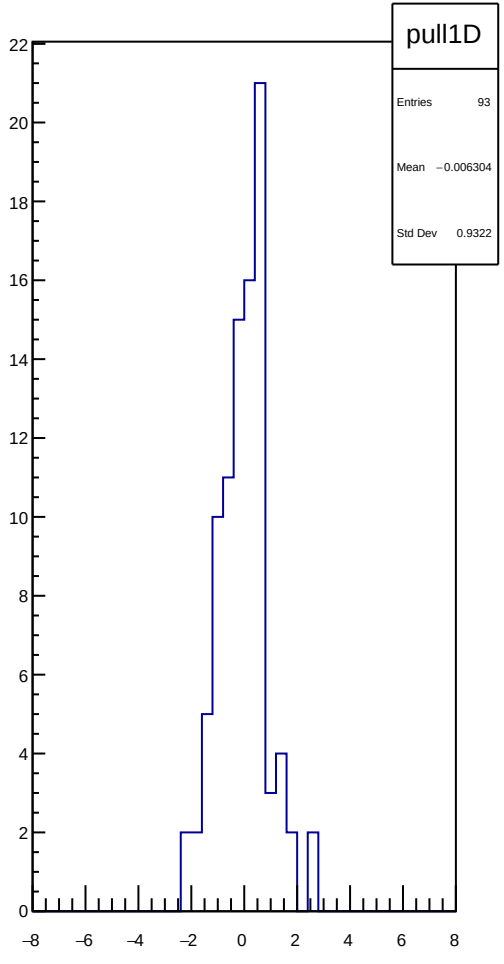

cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1074 / 92
p0 1317 ± 0.9767
1400
1380
1360
1340
1320
1300
1280
1260
1240

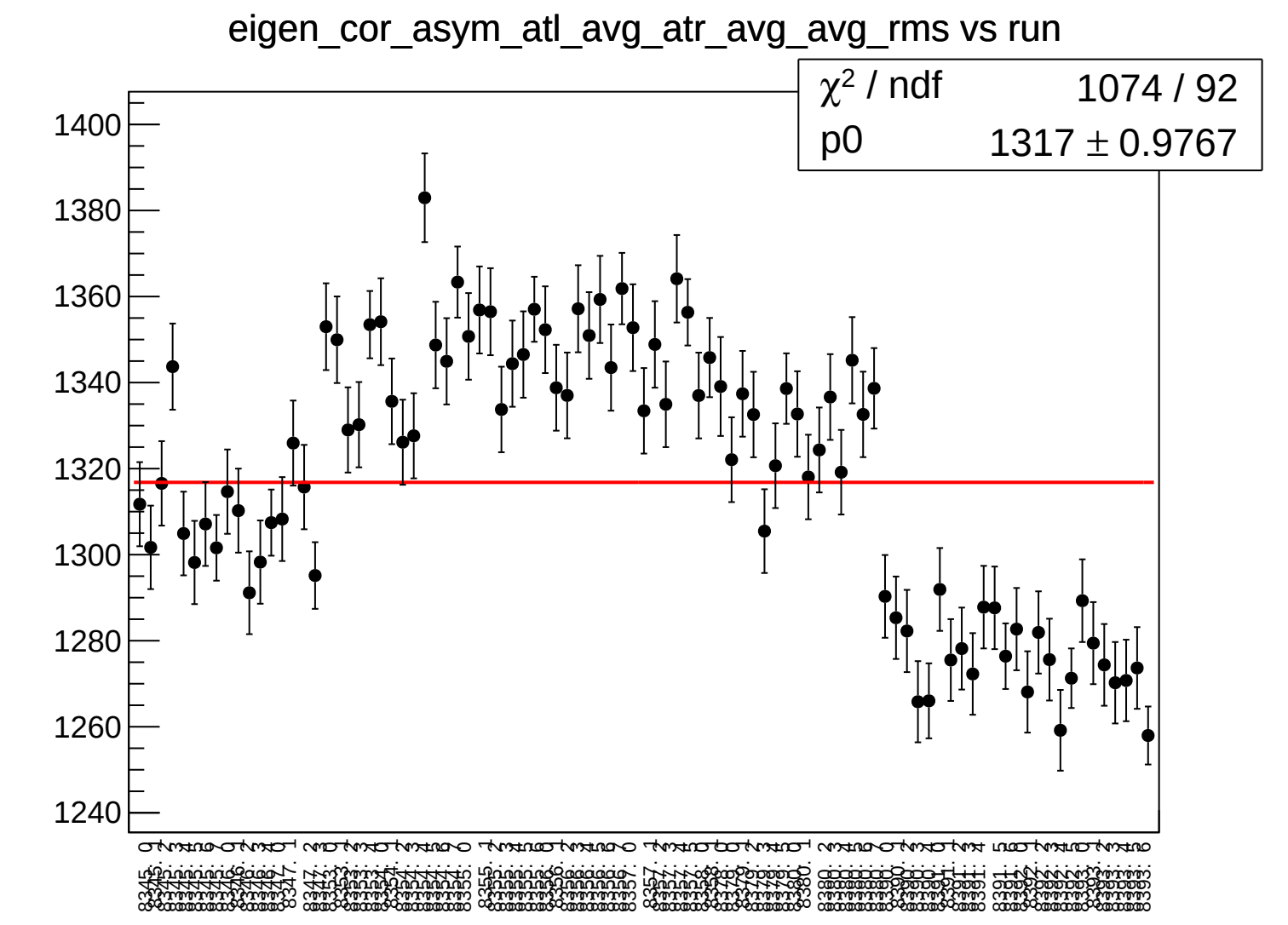

asym_atl_avg_atr_avg_avg_cor_correction_mean vs run
χ² / ndf 95.79 / 92
p0 1.231e+04 ± 6288
×10³
300
200
100
0
−100
−200
pull
Entries 93
Mean −115.7
Std Dev 0
3
2
1
0
−1
−2

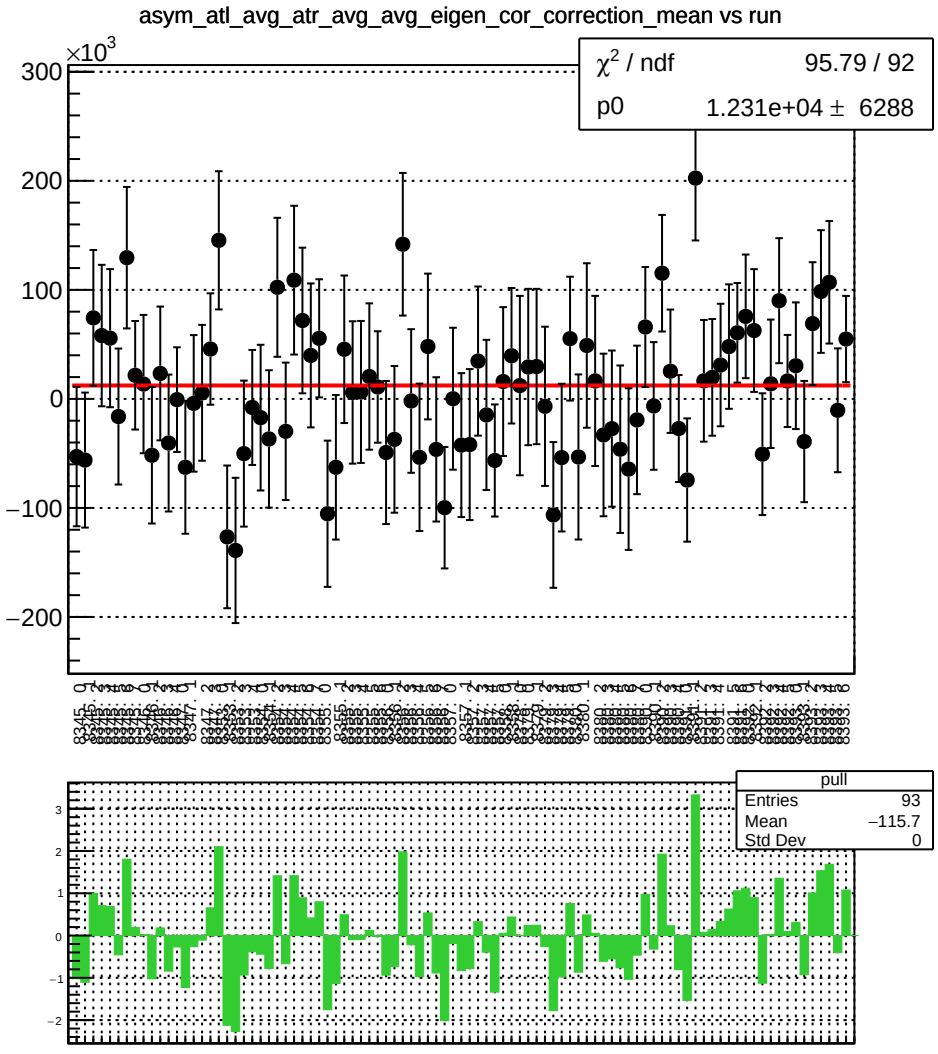

pull1D
Entries 93
Mean −0.03138
Std Dev 1.014
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

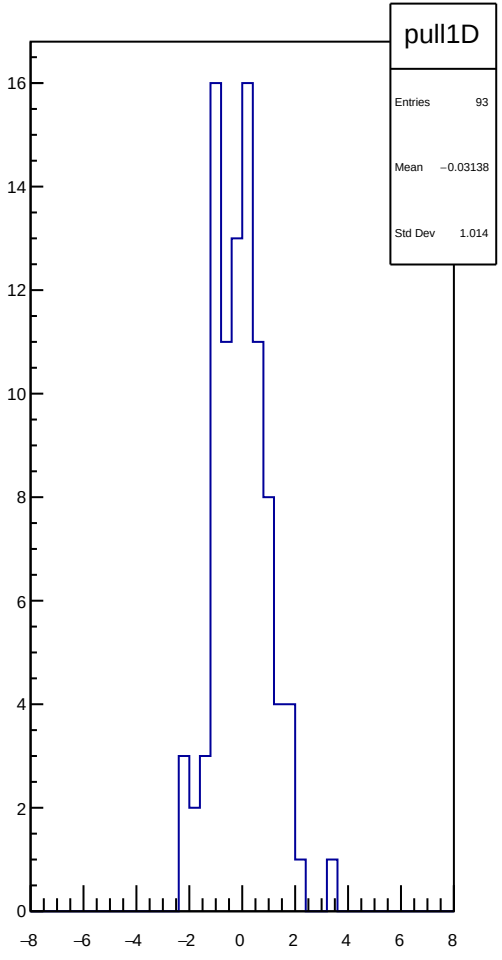

asym_atl_avg_atr_avg_avg_cor_correction_rms vs run
χ² / ndf 1.52e+04 / 92
p0 5971 ± 4.446
7500
7000
6500
6000
5500
5000

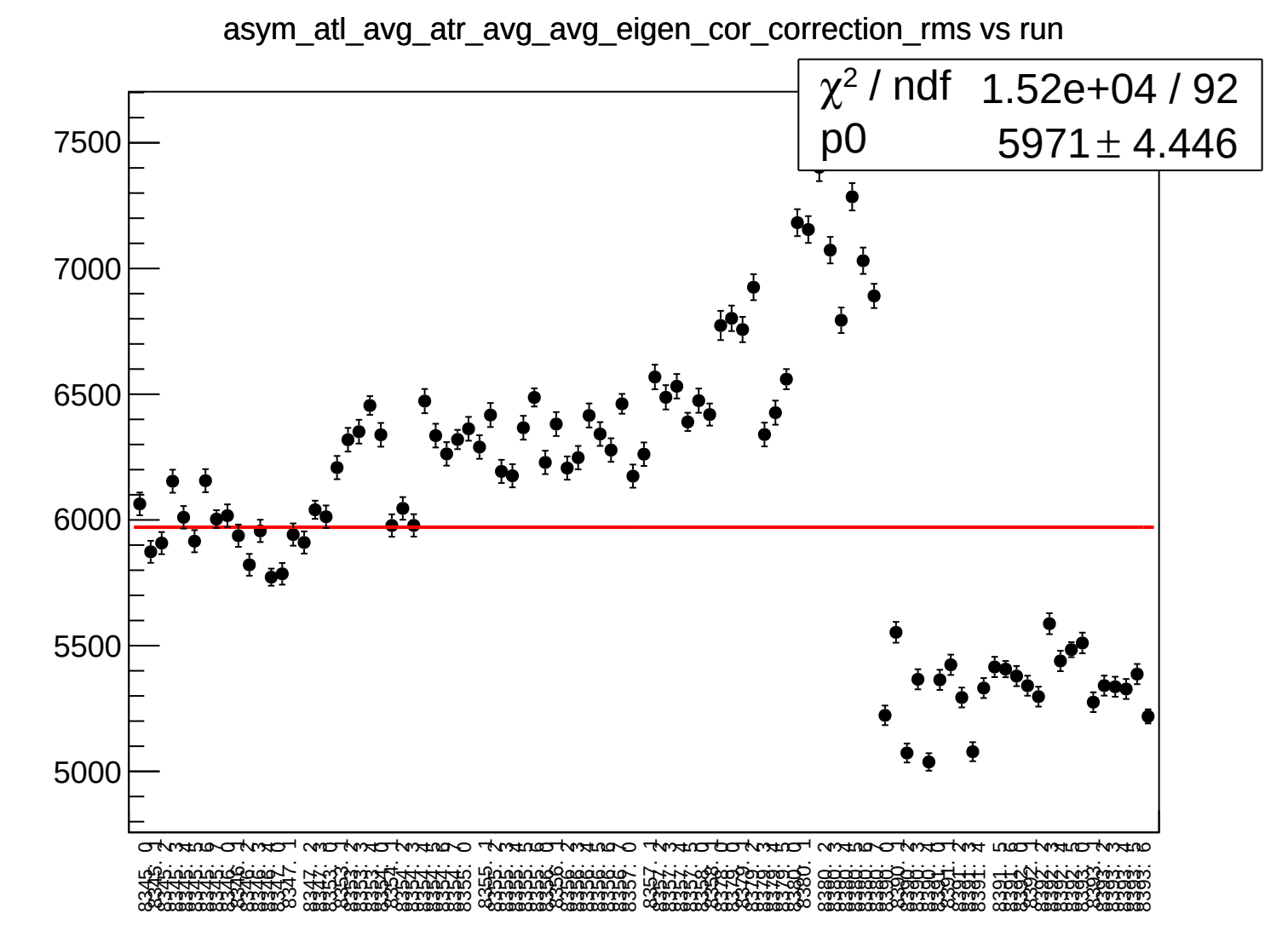

eigen_cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 80.82 / 92
p0 1644 ± 1381
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −59.42
Std Dev 0
2
1
0
−1
−2

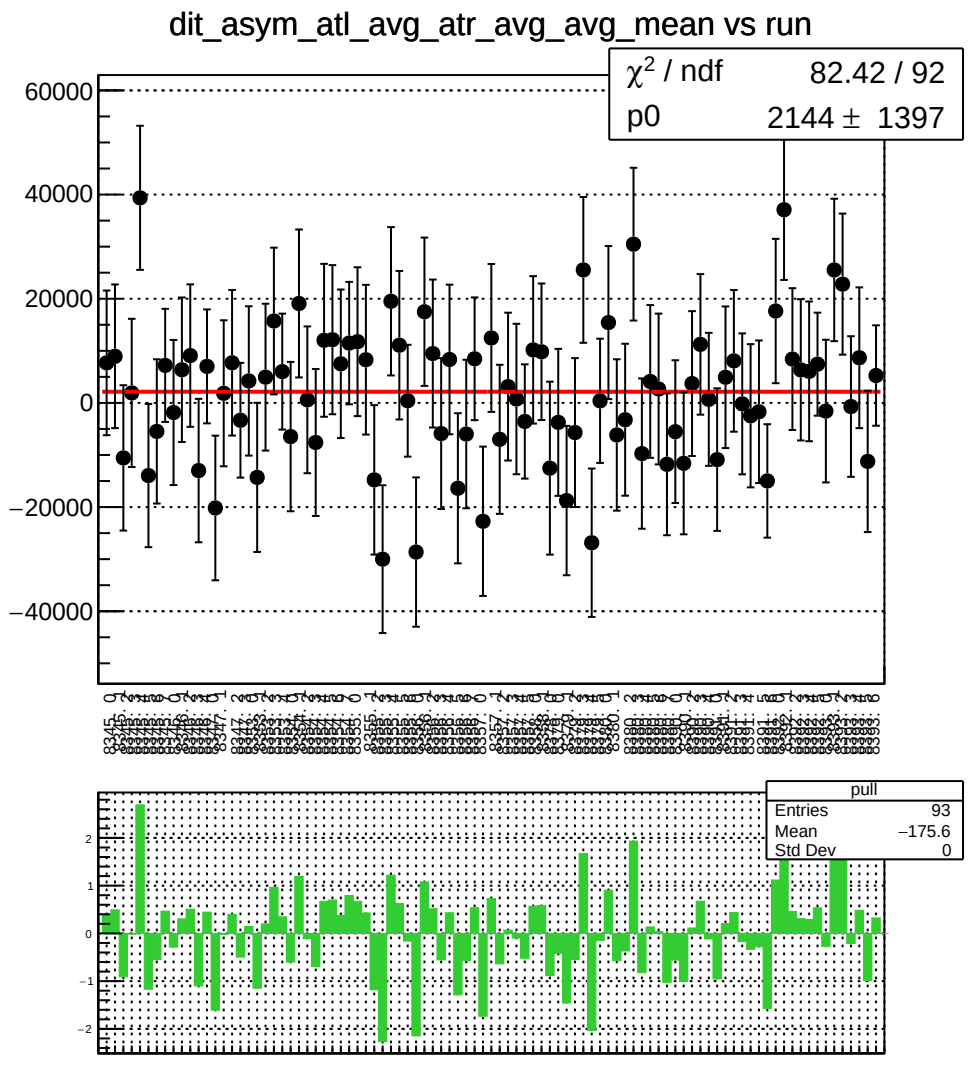

pull1D
Entries 93
Mean −0.006304
Std Dev 0.9322
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

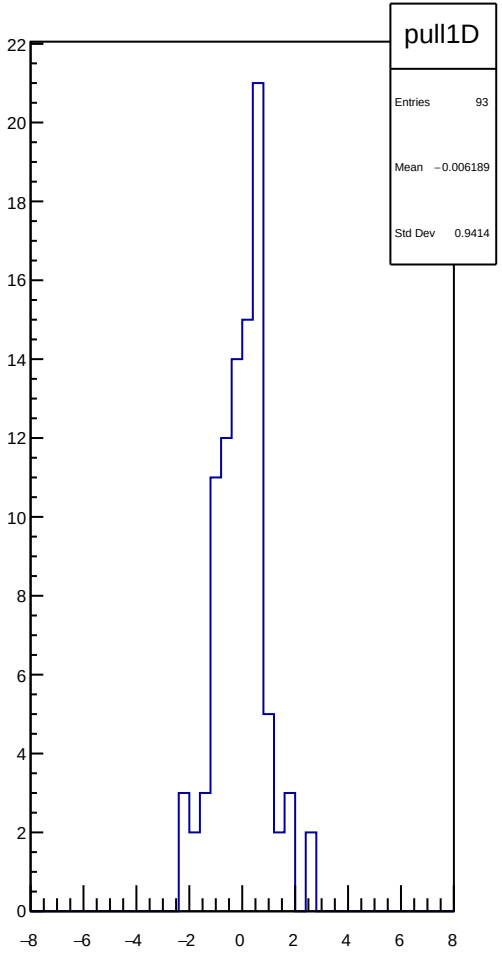

eigen_cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1074 / 92
p0 1317 ± 0.9767
1400
1380
1360
1340
1320
1300
1280
1260
1240

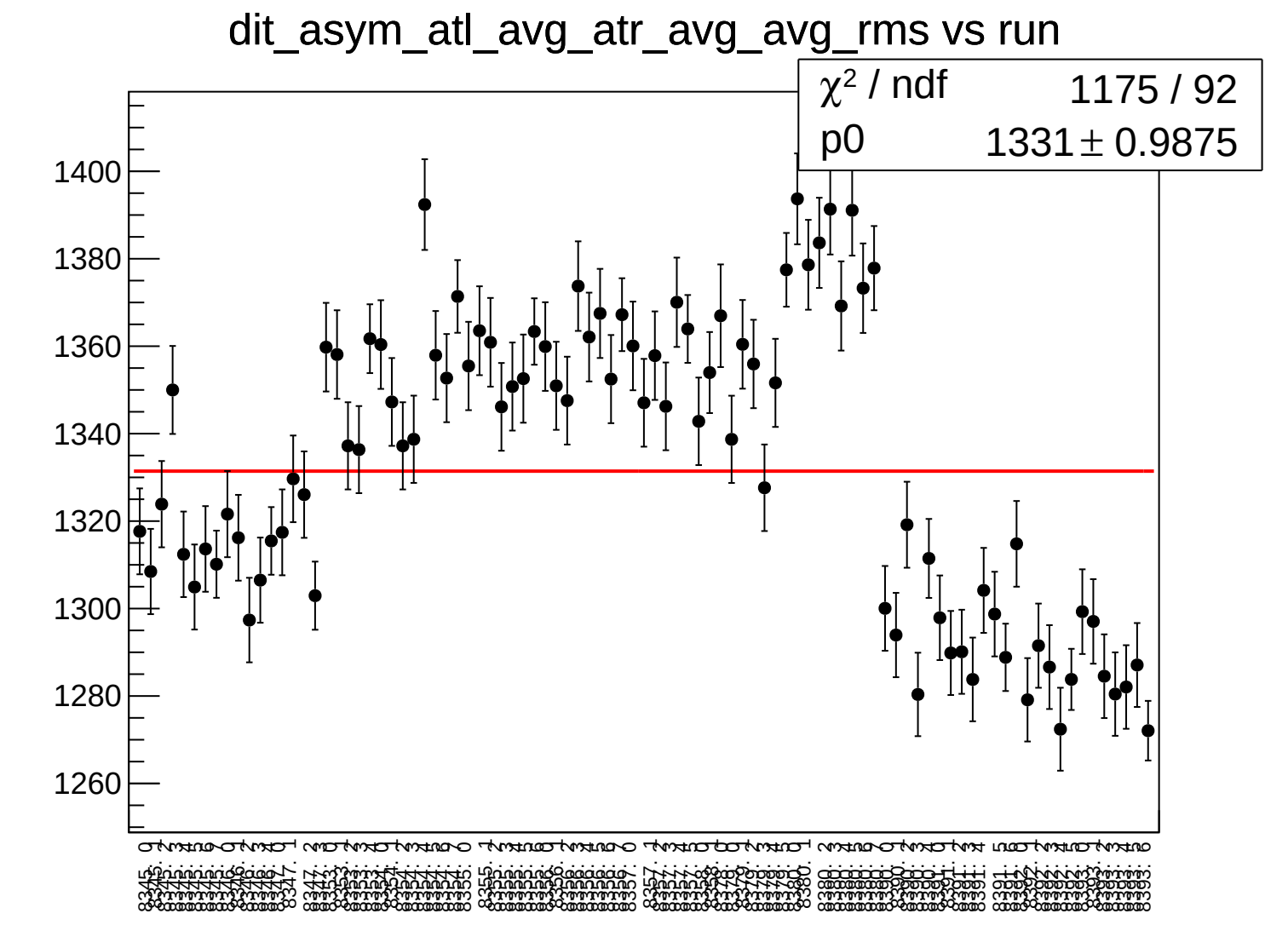

asym_atl_avg_atr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 95.79 / 92
p0 1.231e+04 ± 6288
pull
Entries 93
Mean −115.7
Std Dev 0

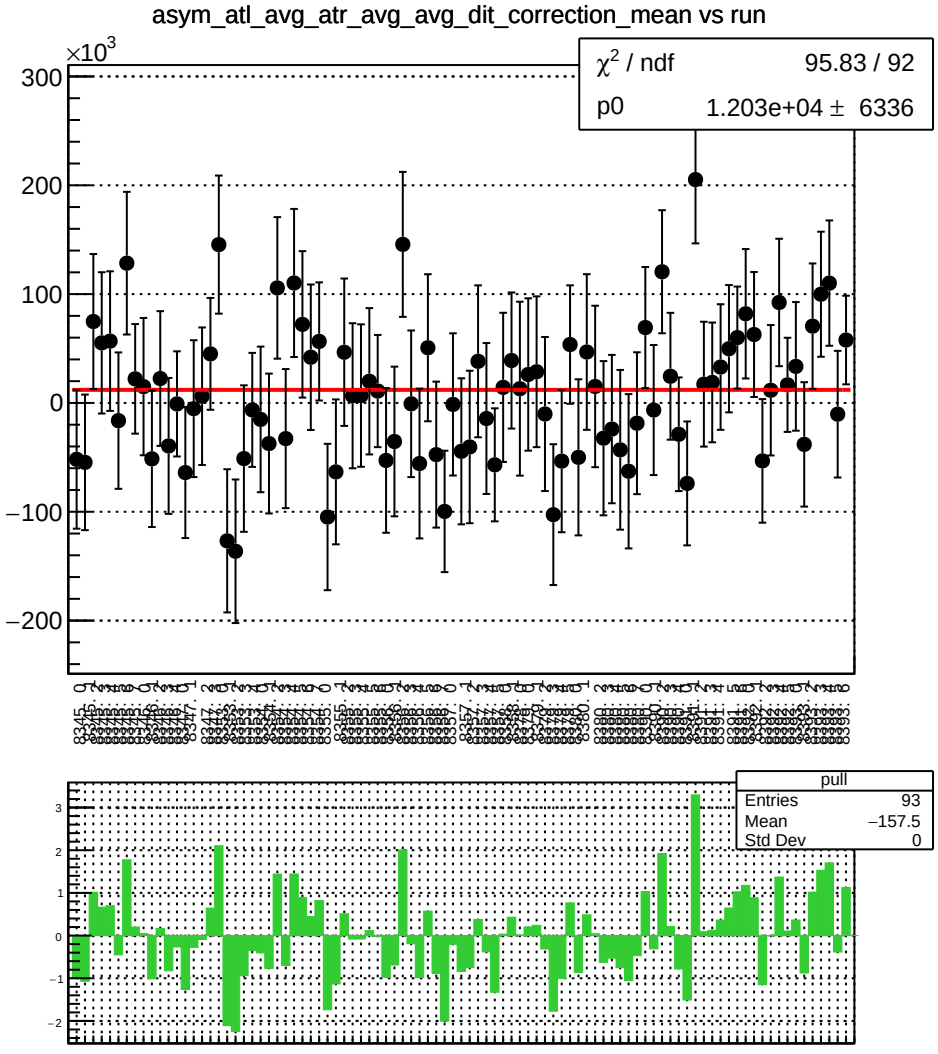

pull1D
Entries 93
Mean −0.03138
Std Dev 1.014

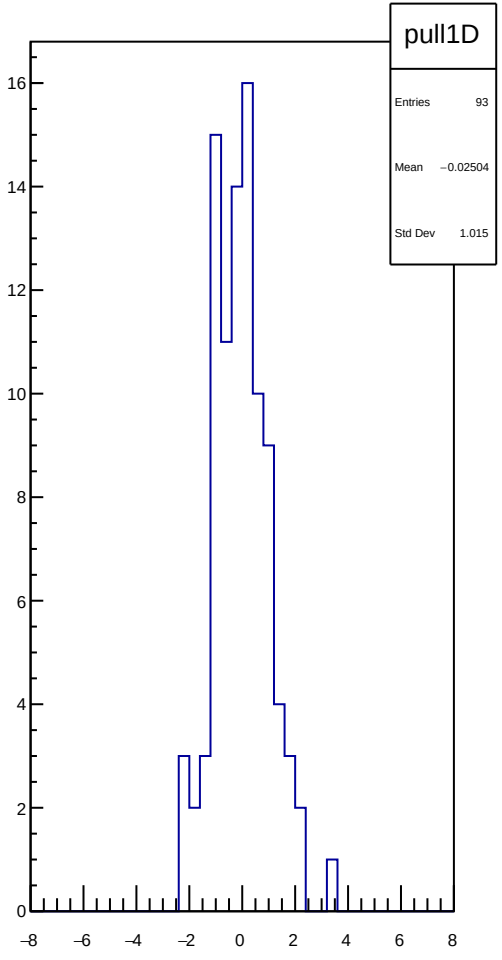

asym_atl_avg_atr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.52e+04 / 92
p0 5971 ± 4.446
7500
7000
6500
6000
5500
5000

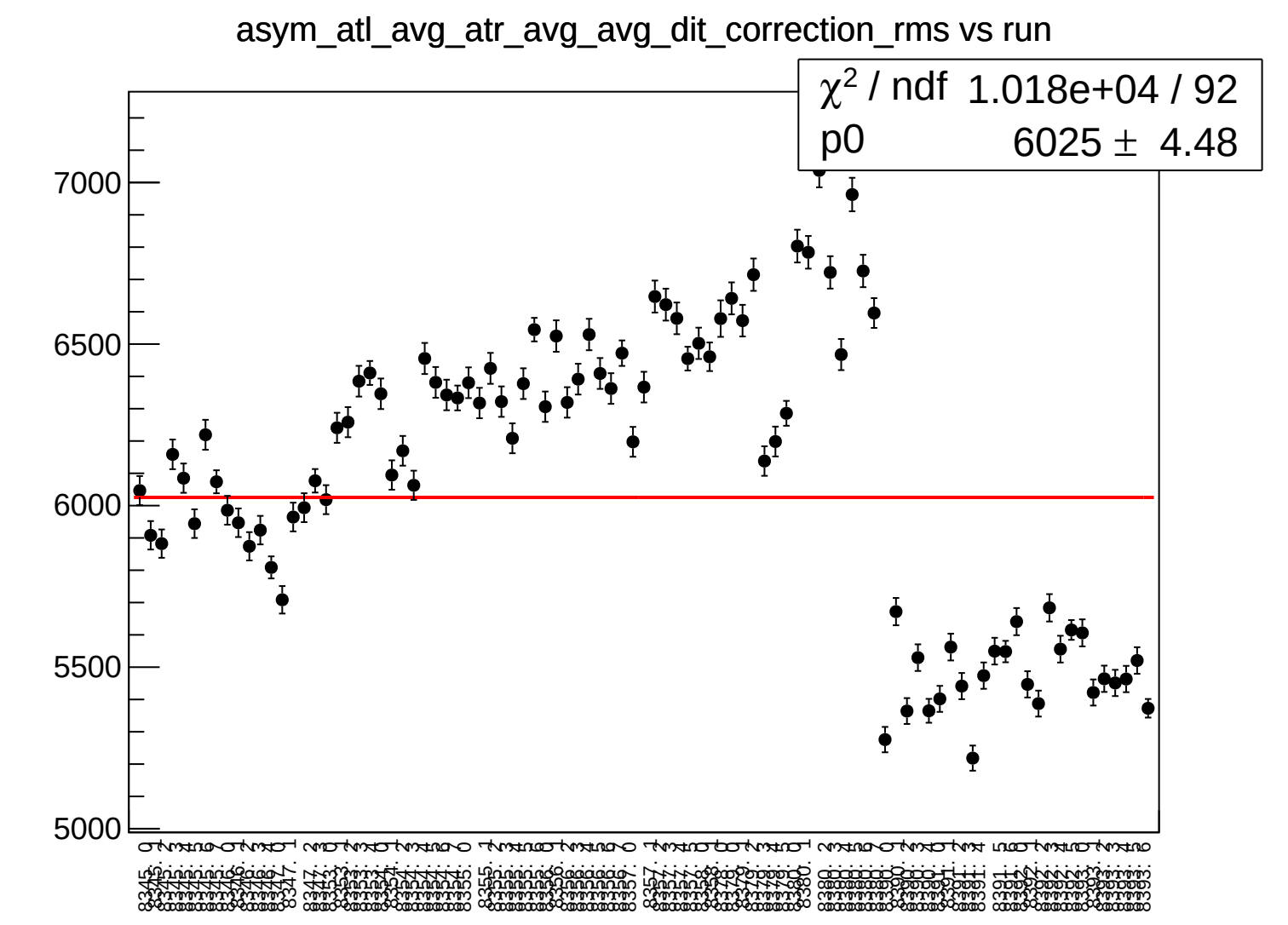

dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 82.42 / 92
p0 2144 ± 1397
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −175.6
Std Dev 0
2
1
0
−1
−2

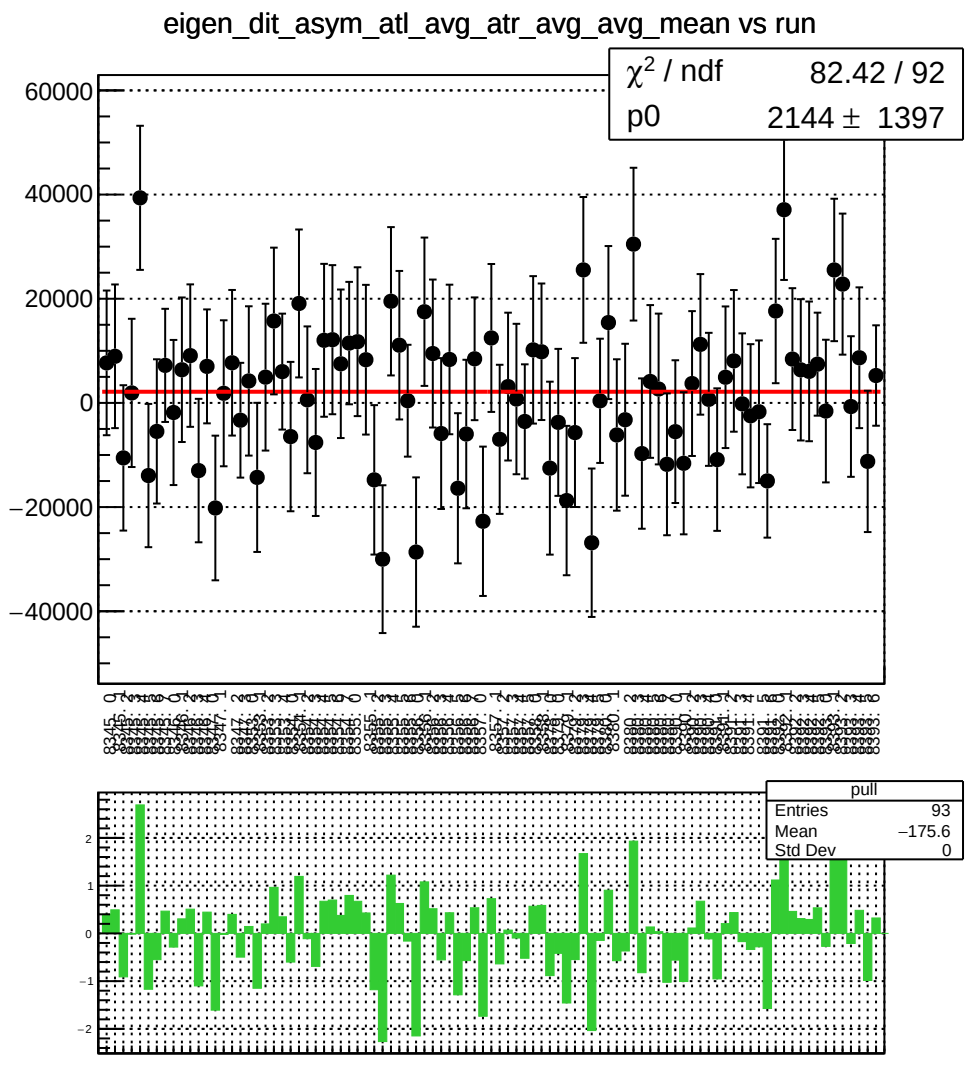

pull1D
Entries 93
Mean −0.006189
Std Dev 0.9414
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

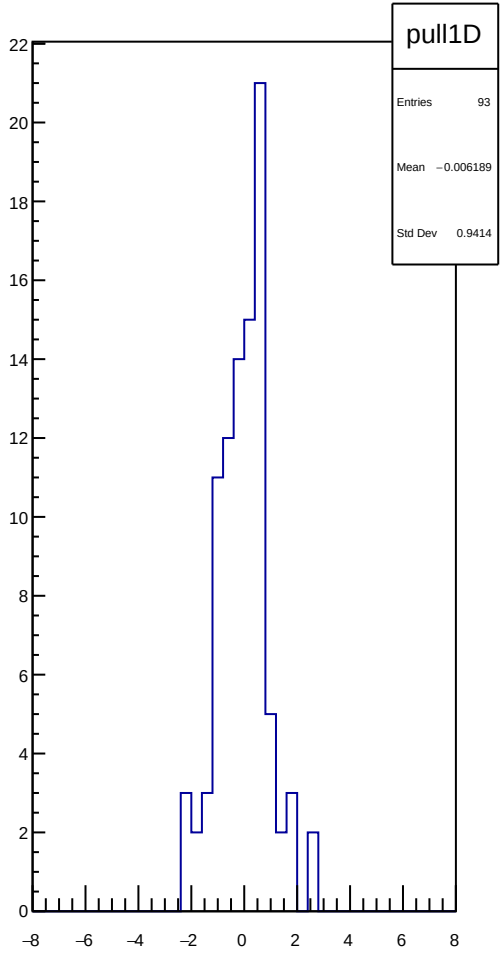

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1175 / 92
p0 1331 ± 0.9875
1400
1380
1360
1340
1320
1300
1280
1260

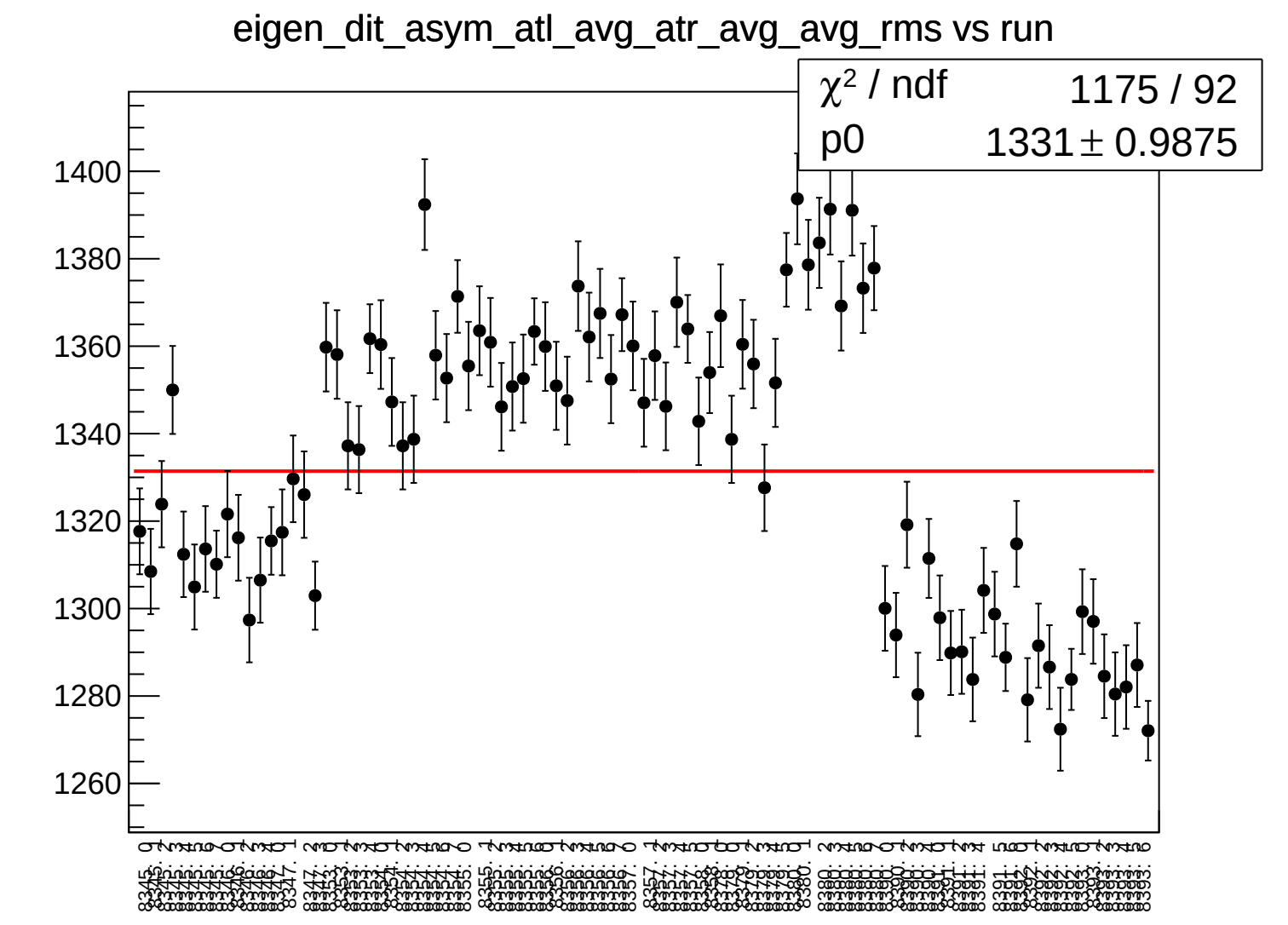

asym_atl_avg_atr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 95.83 / 92
p0 1.203e+04 ± 6336
pull
Entries 93
Mean −157.5
Std Dev 0

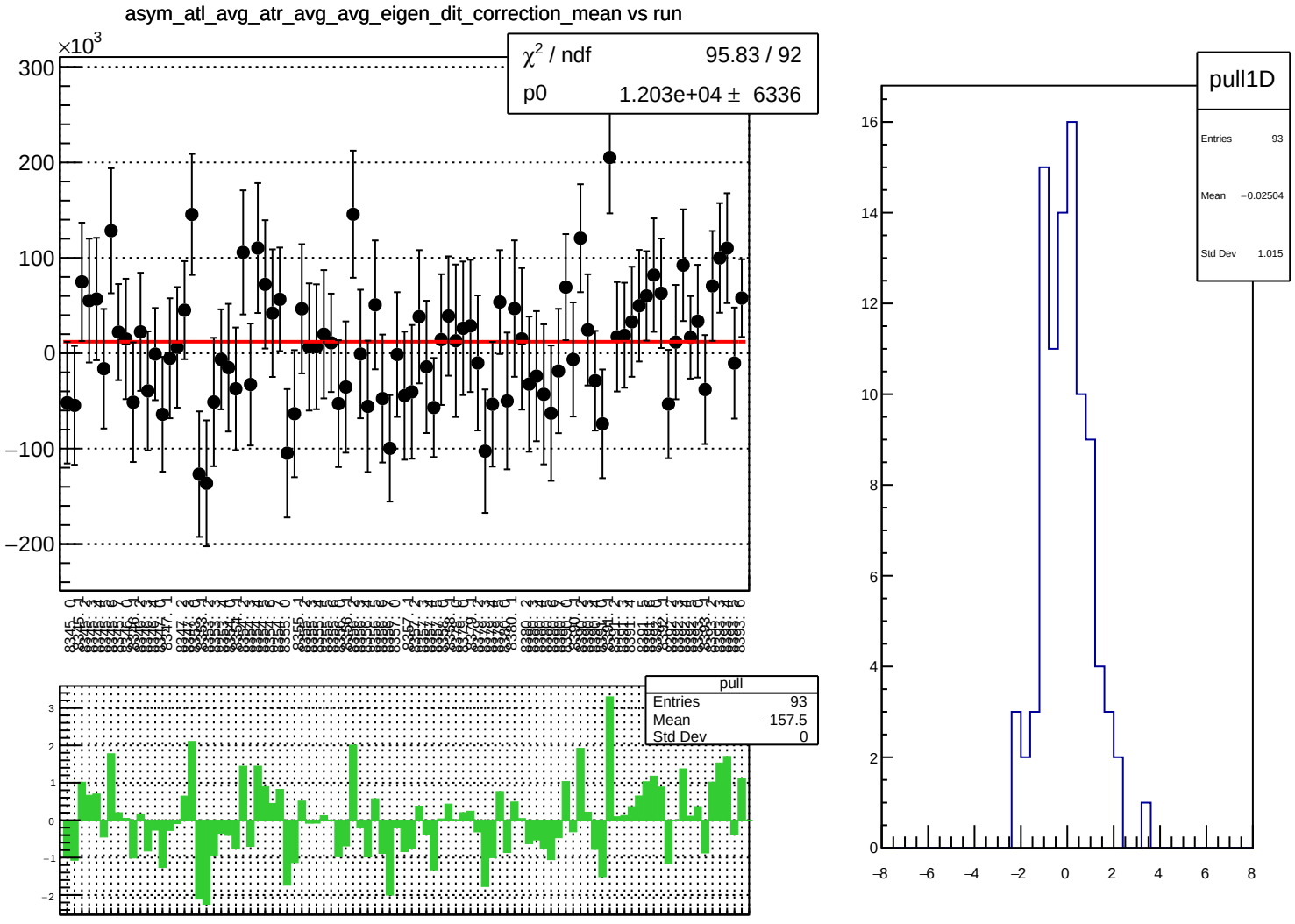

pull1D
Entries 93
Mean −0.02504
Std Dev 1.015

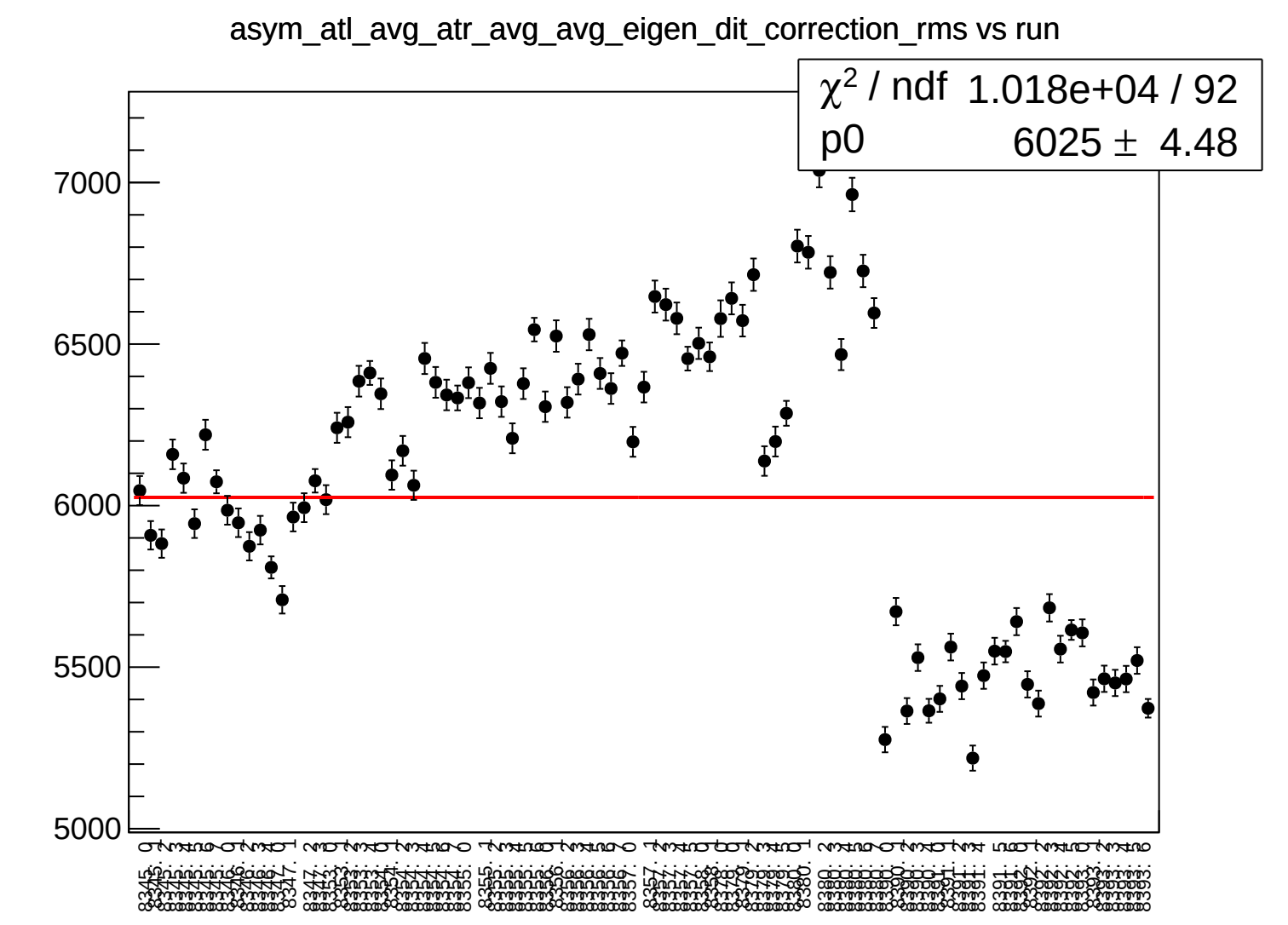

asym_atl_avg_atr_avg_avg_dit_correction_rms vs run
χ² / ndf 1.018e+04 / 92
p0 6025 ± 4.48
7000
6500
6000
5500
5000

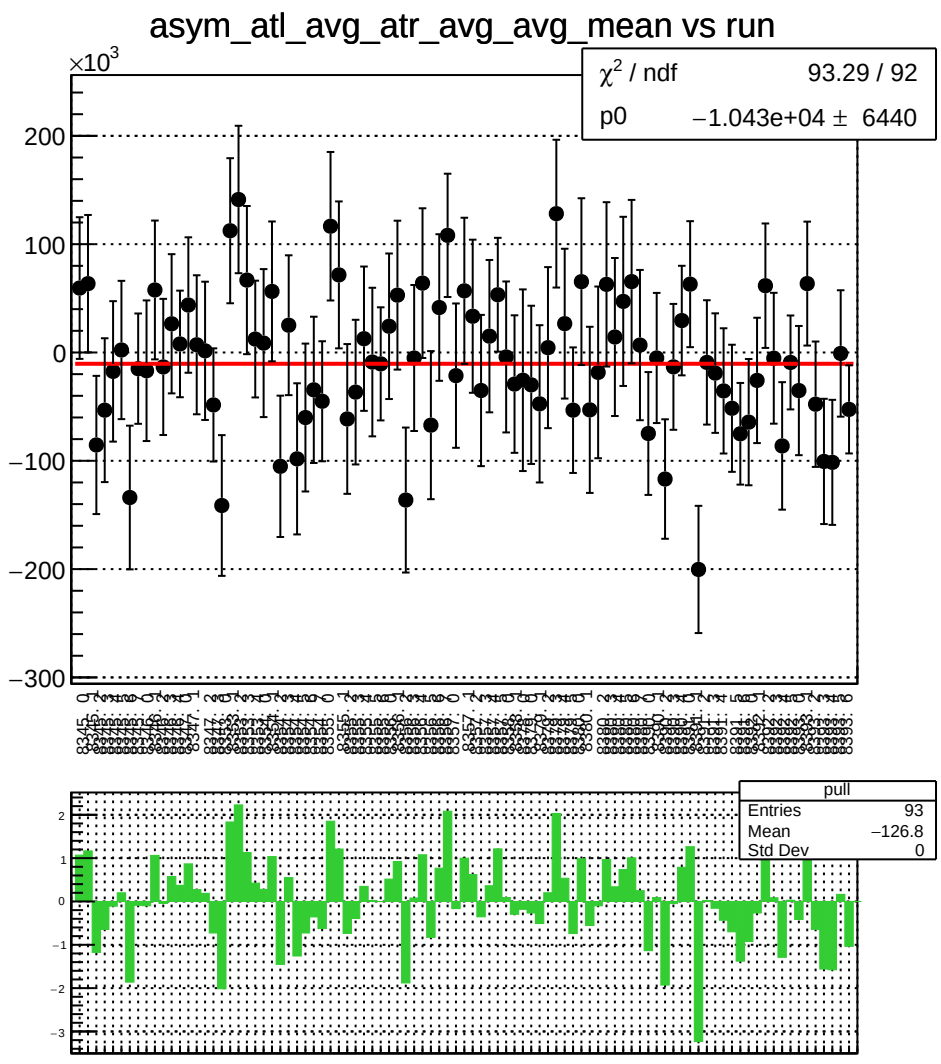

eigen_dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 82.42 / 92
p0 2144 ± 1397
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −175.6
Std Dev 0
2
1
0
−1
−2

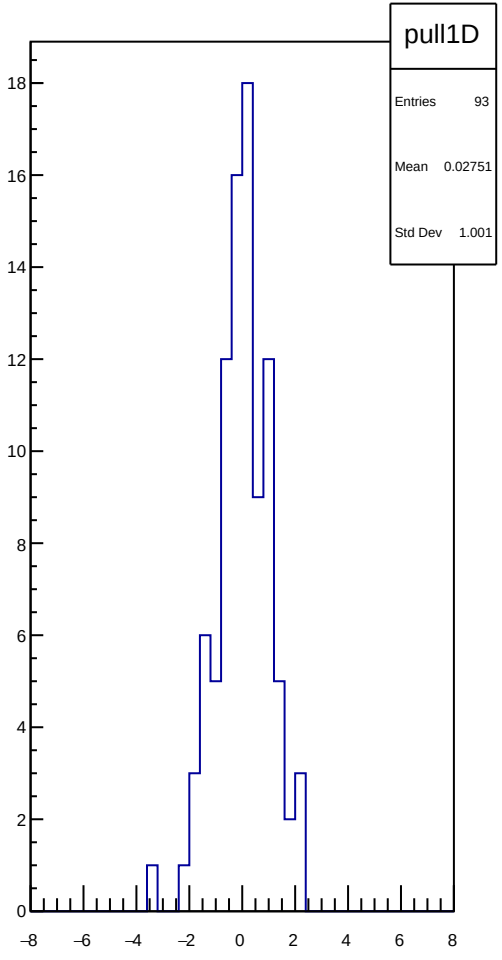

pull1D
Entries 93
Mean −0.006189
Std Dev 0.9414
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

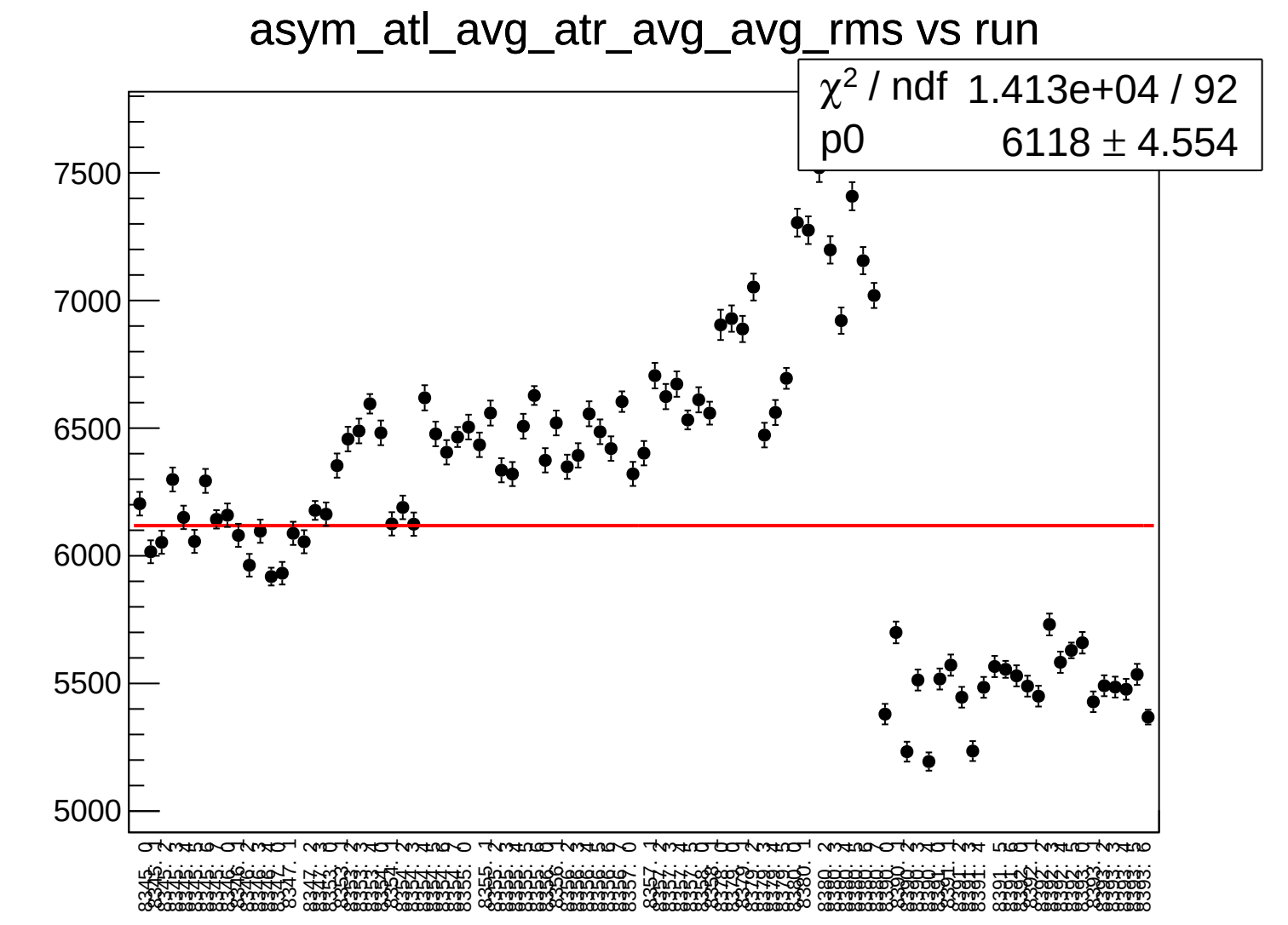

eigen_dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1175 / 92
p0 1331 ± 0.9875
1400
1380
1360
1340
1320
1300
1280
1260

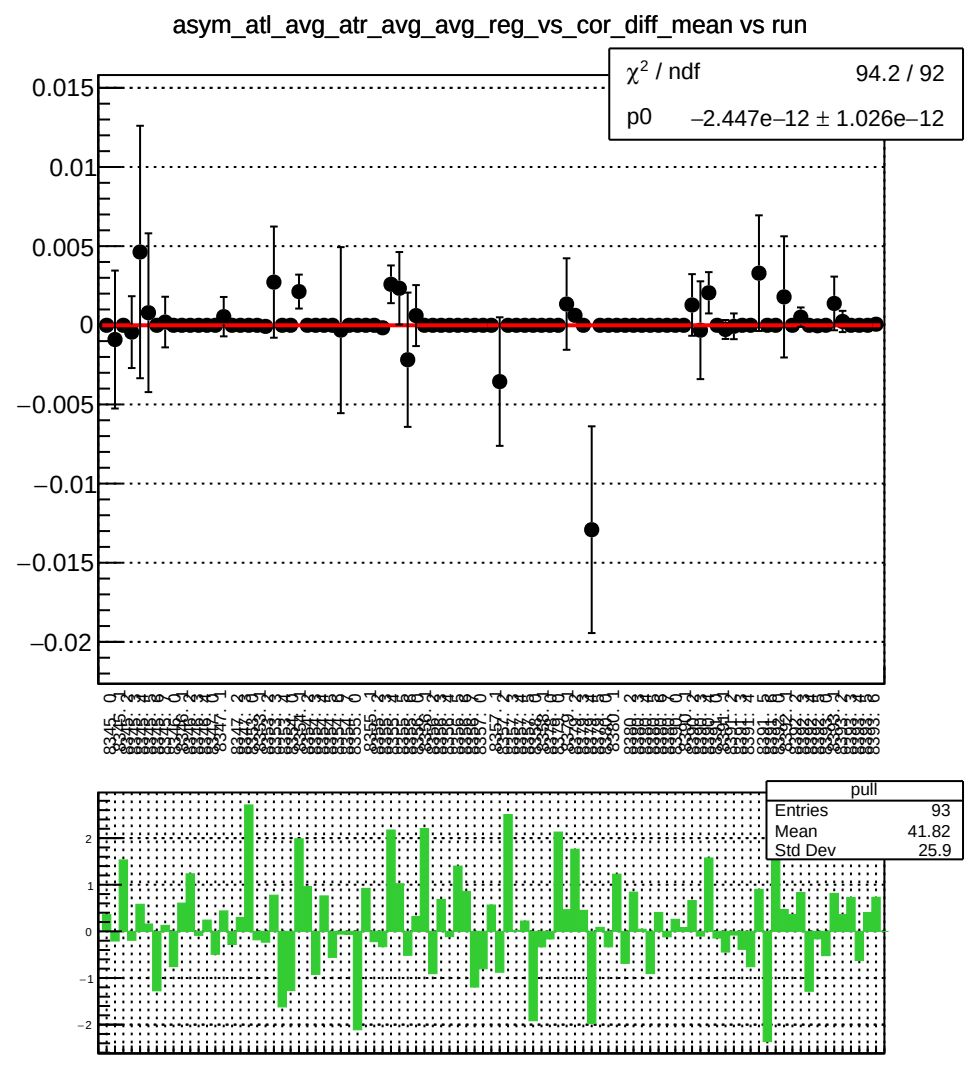

asym_atl_avg_atr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 95.83 / 92
p0 1.203e+04 ± 6336
300
200
100
0
−100
−200
pull
Entries 93
Mean −157.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.02504
Std Dev 1.015
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

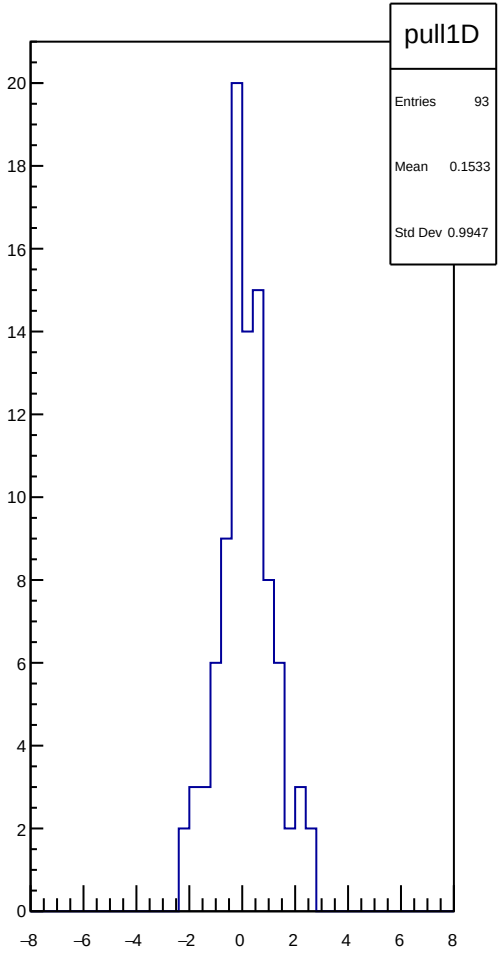

asym_atl_avg_atr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.018e+04 / 92
p0 6025 ± 4.48
7000
6500
6000
5500
5000

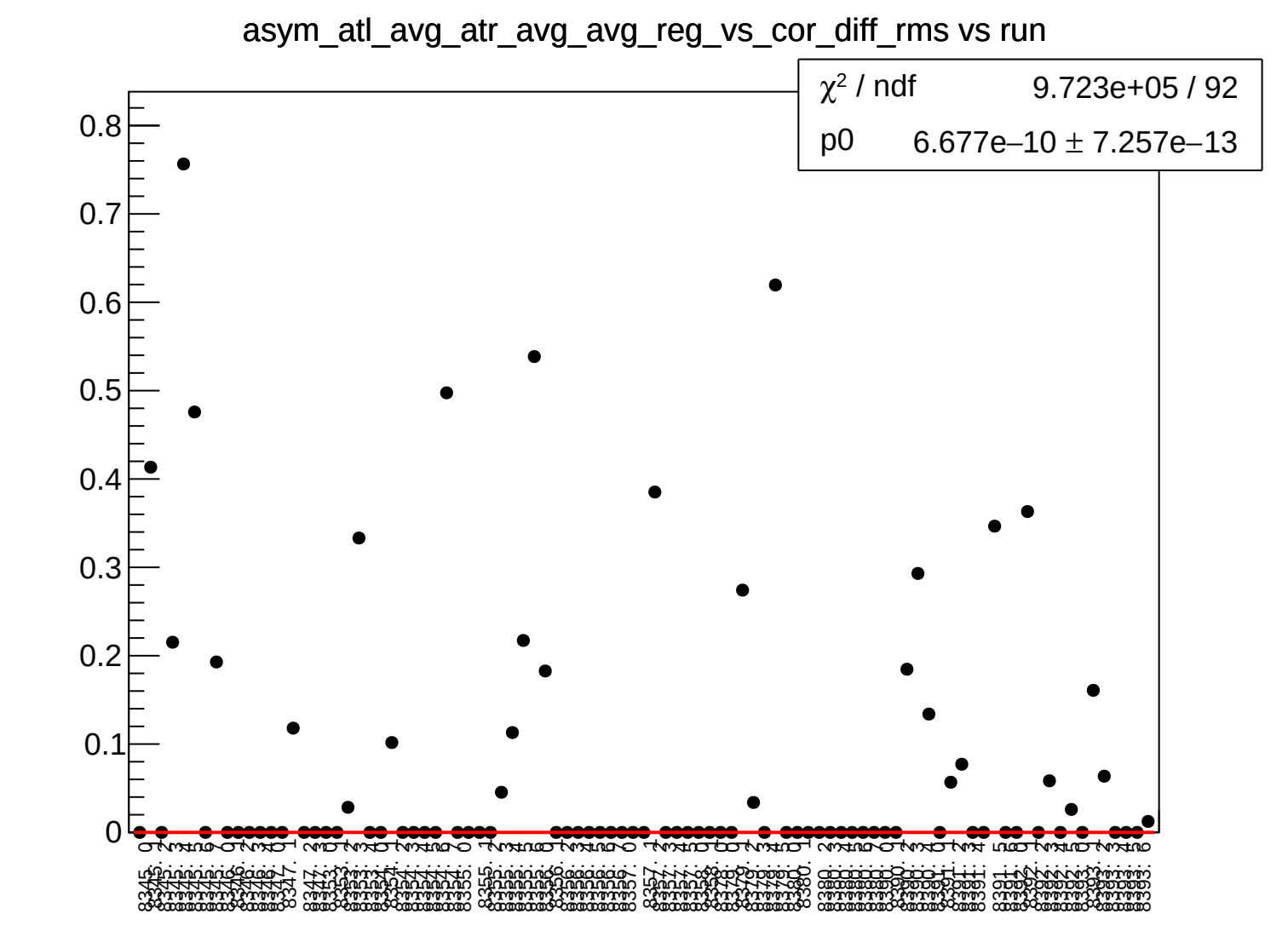

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 93.29 / 92
p0 −1.043e+04 ± 6440
pull
Entries 93
Mean −126.8
Std Dev 0

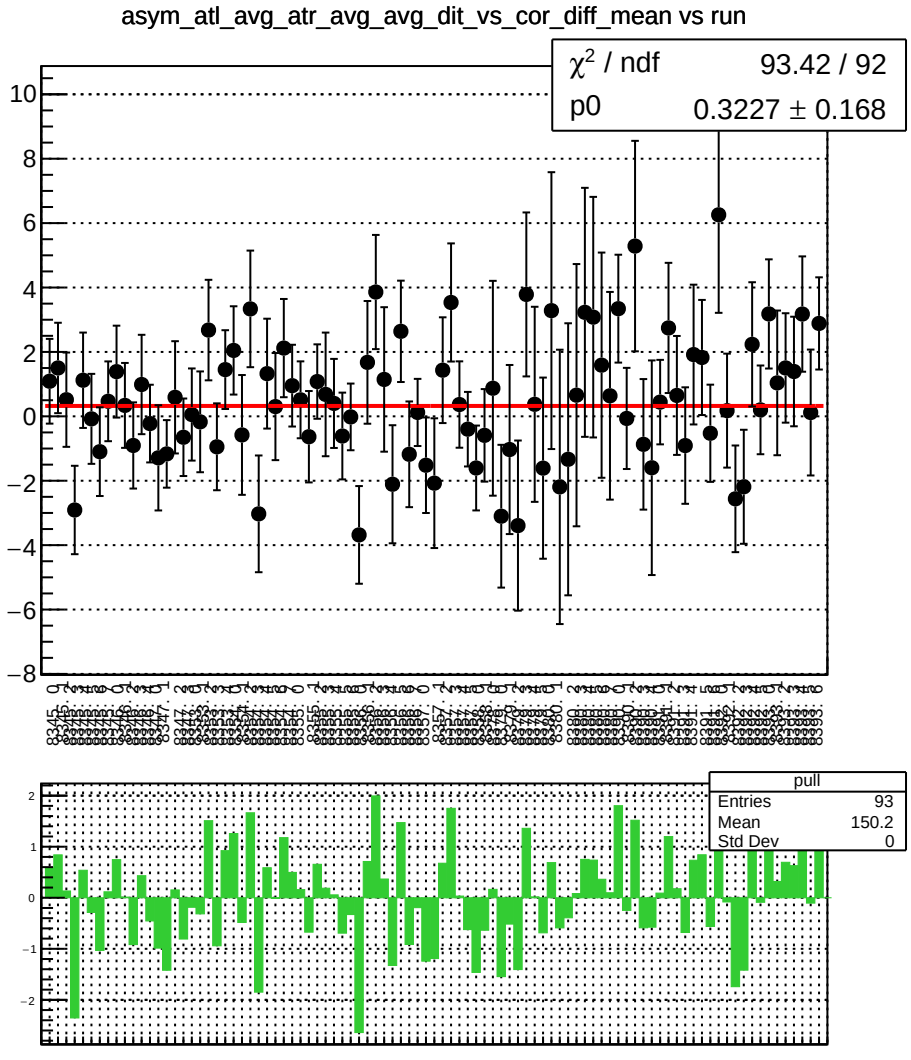

pull1D
Entries 93
Mean 0.02751
Std Dev 1.001

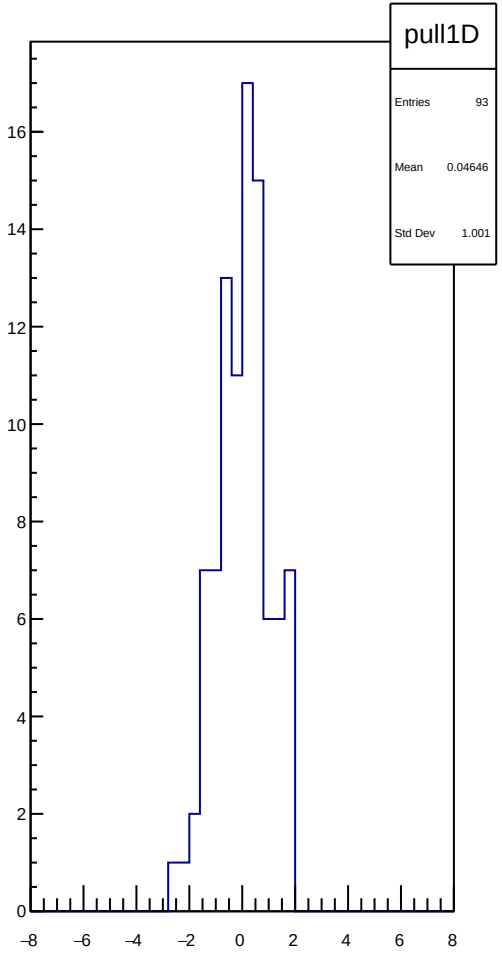

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1.413e+04 / 92
p0 6118 ± 4.554
7500
7000
6500
6000
5500
5000

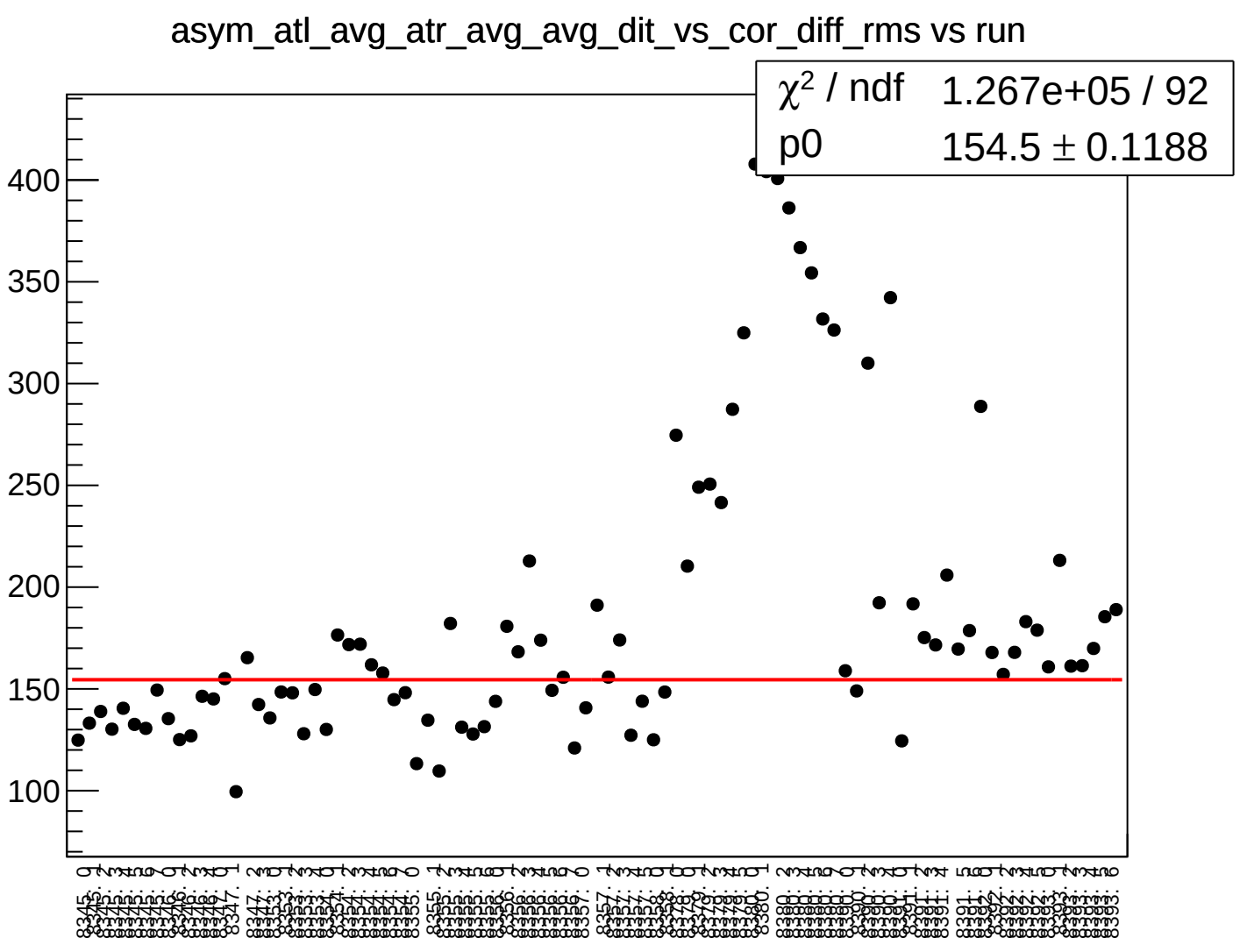

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 94.2 / 92
p0 −2.447e−12 ± 1.026e−12
pull
Entries 93
Mean 41.82
Std Dev 25.9

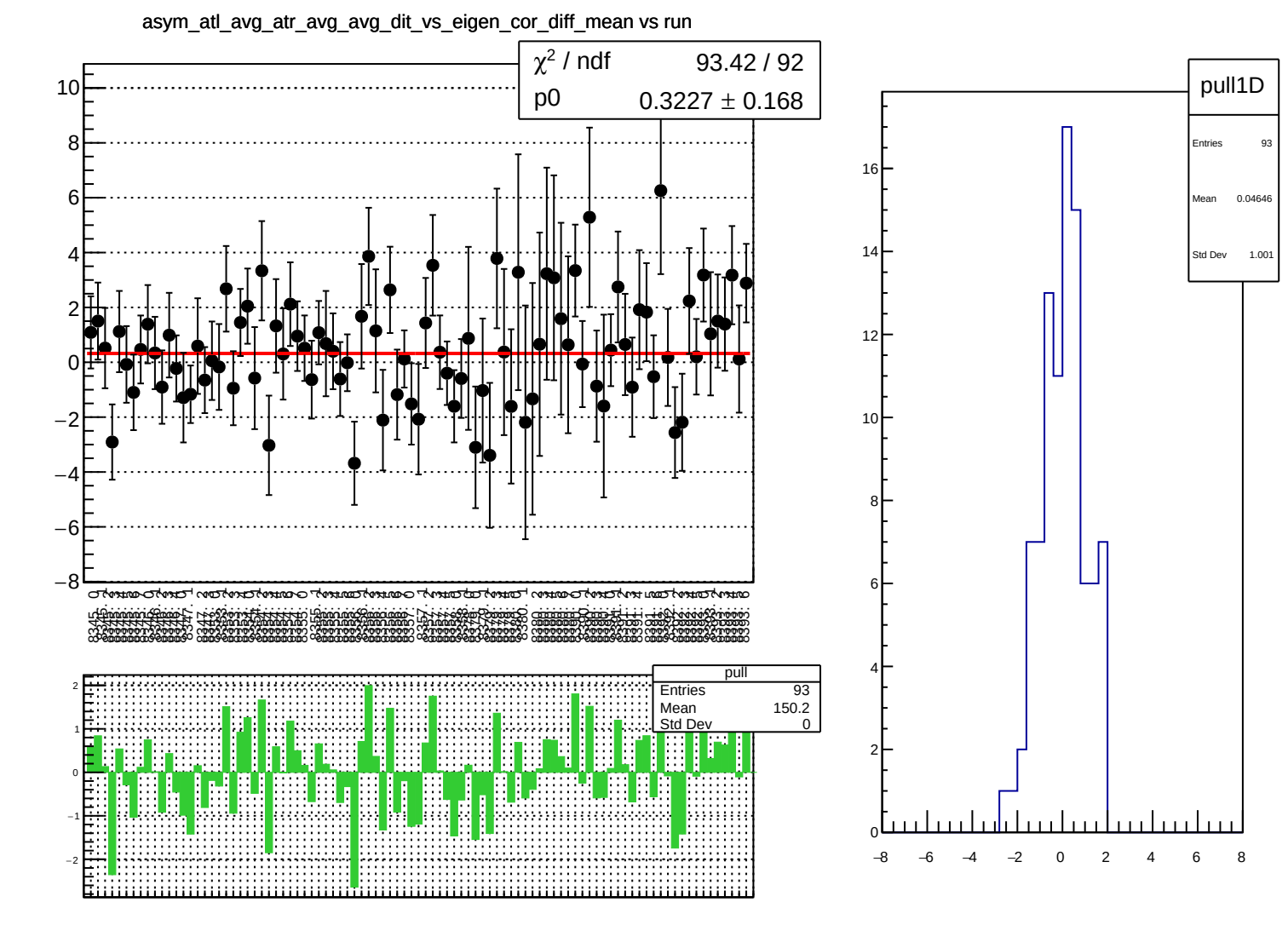

pull1D
Entries 93
Mean 0.1533
Std Dev 0.9947

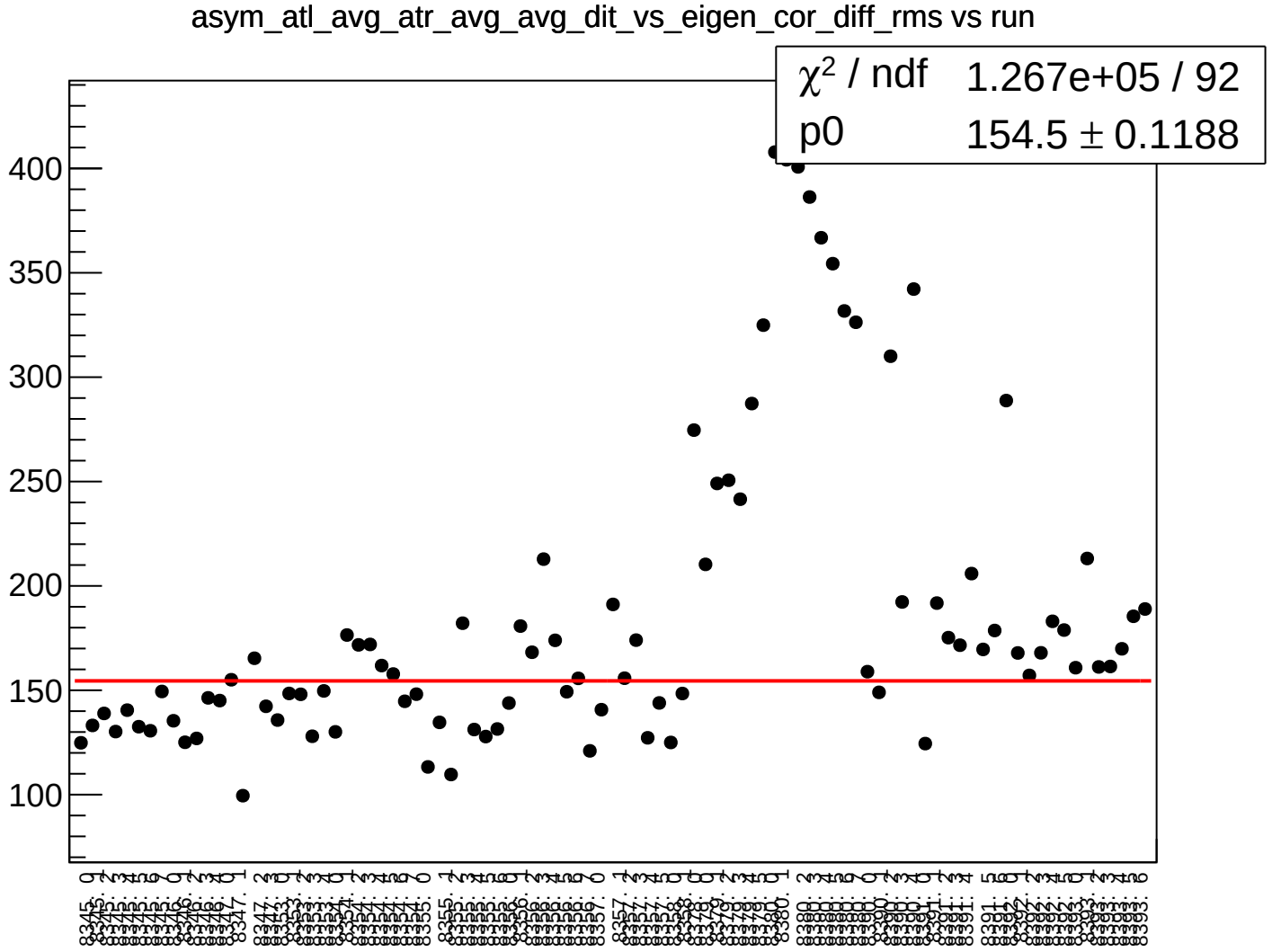

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.723e+05 / 92
p0 6.677e−10 ± 7.257e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

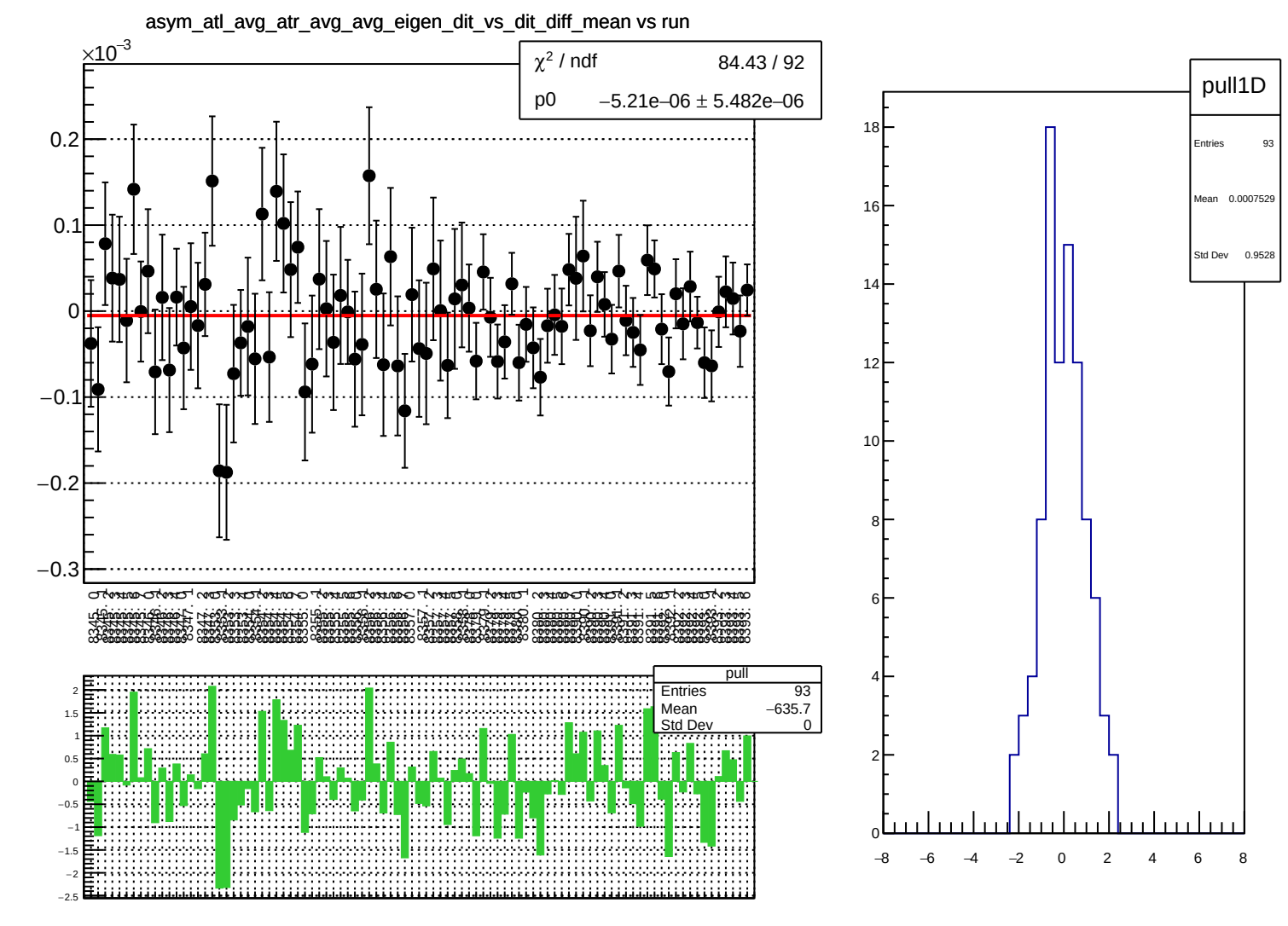

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 93.42 / 92
p0 0.3227 ± 0.168
pull
Entries 93
Mean 150.2
Std Dev 0

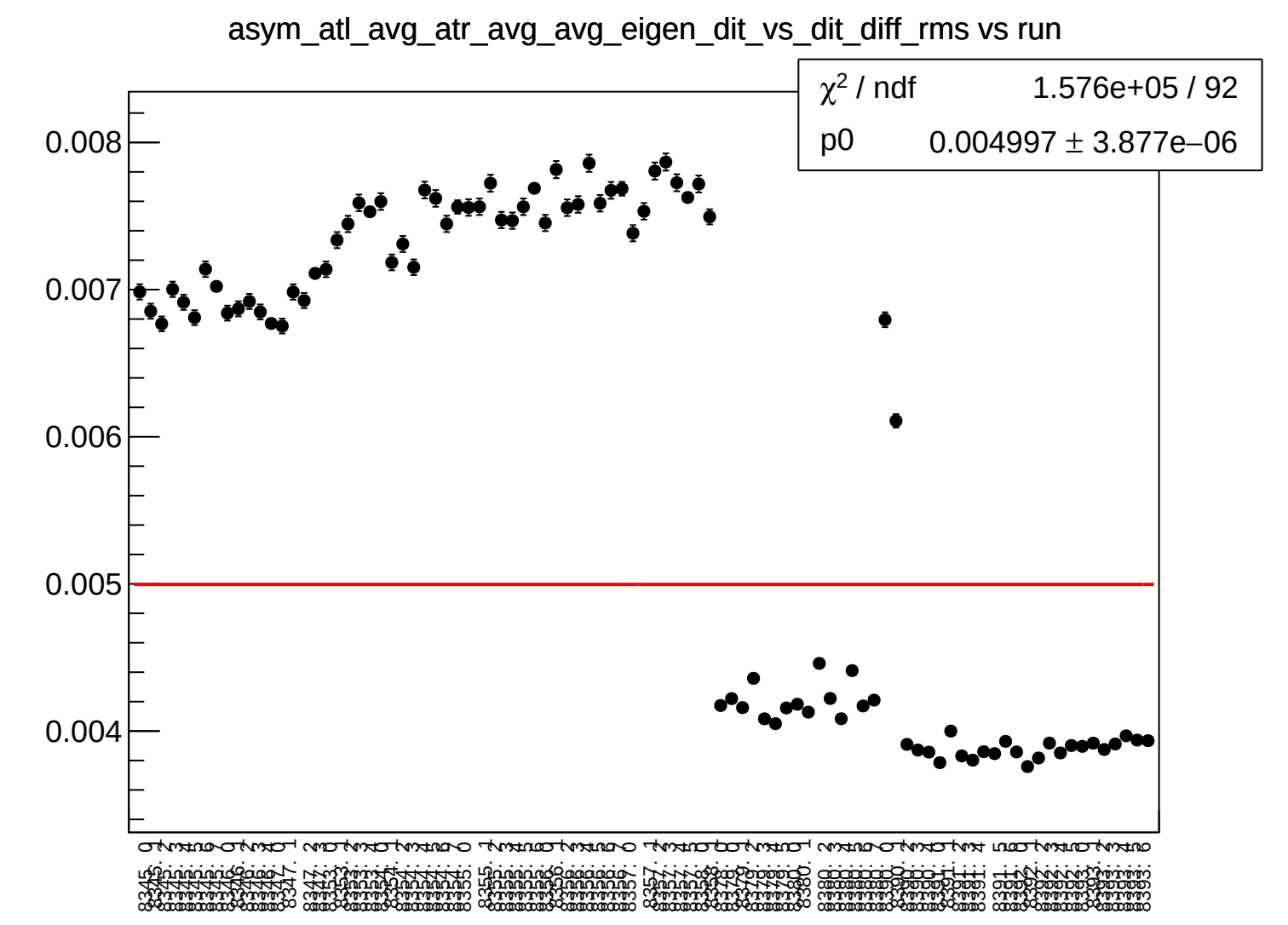

pull1D
Entries 93
Mean 0.04646
Std Dev 1.001

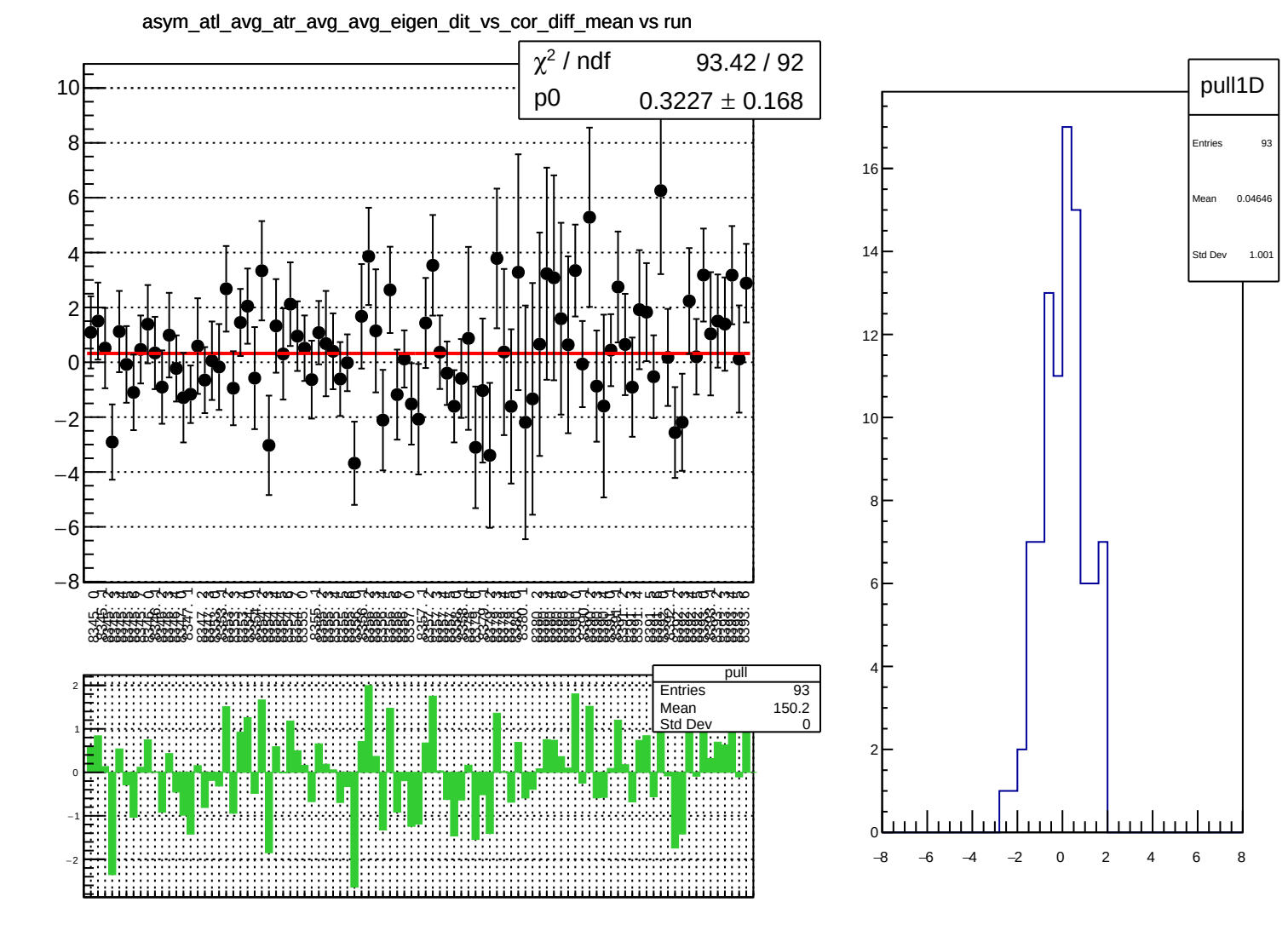

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.267e+05 / 92
p0 154.5 ± 0.1188
400
350
300
250
200
150
100

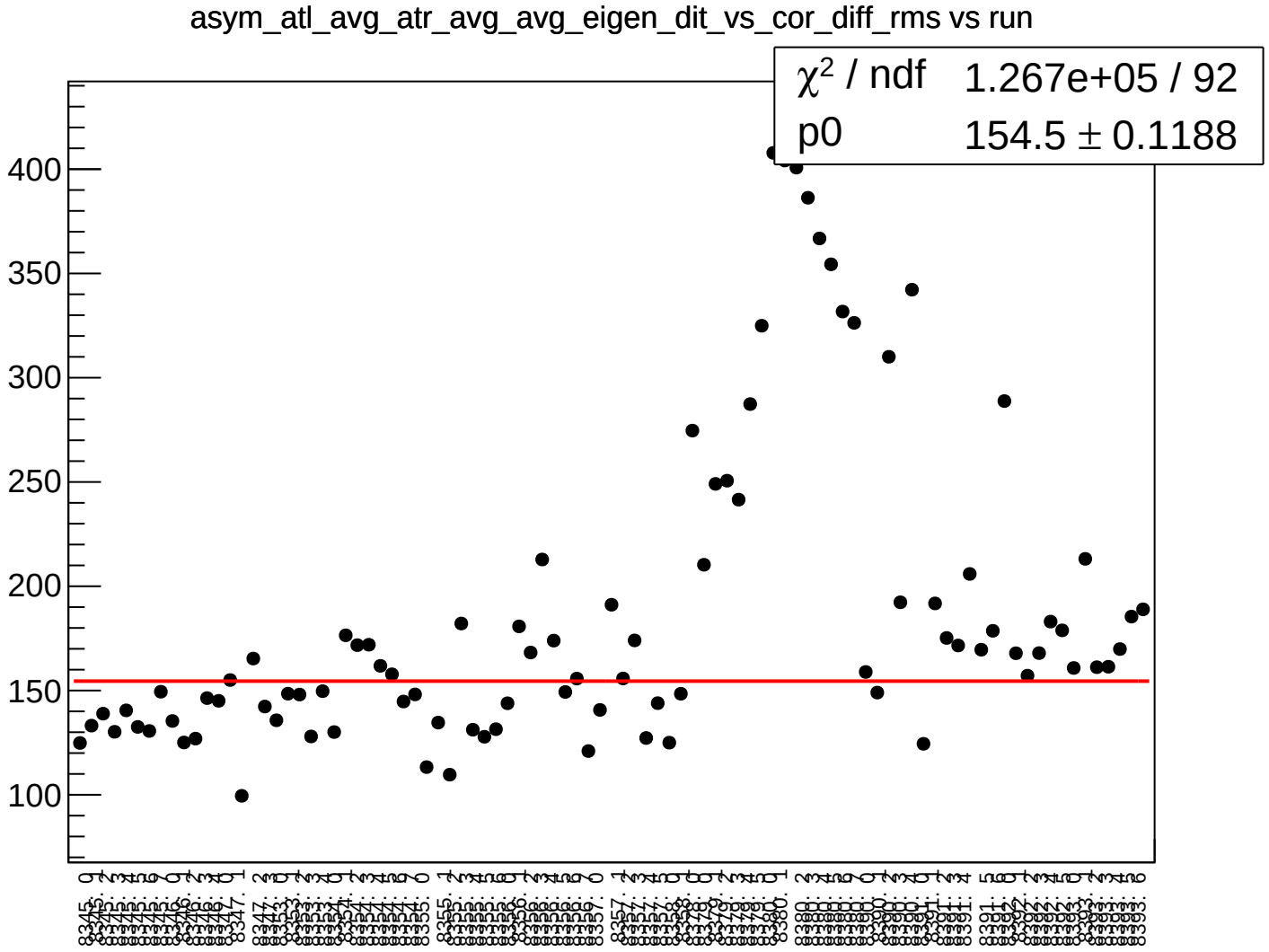

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.42 / 92
p0 0.3227 ± 0.168
pull
Entries 93
Mean 150.2
Std Dev 0
pull1D
Entries 93
Mean 0.04646
Std Dev 1.001

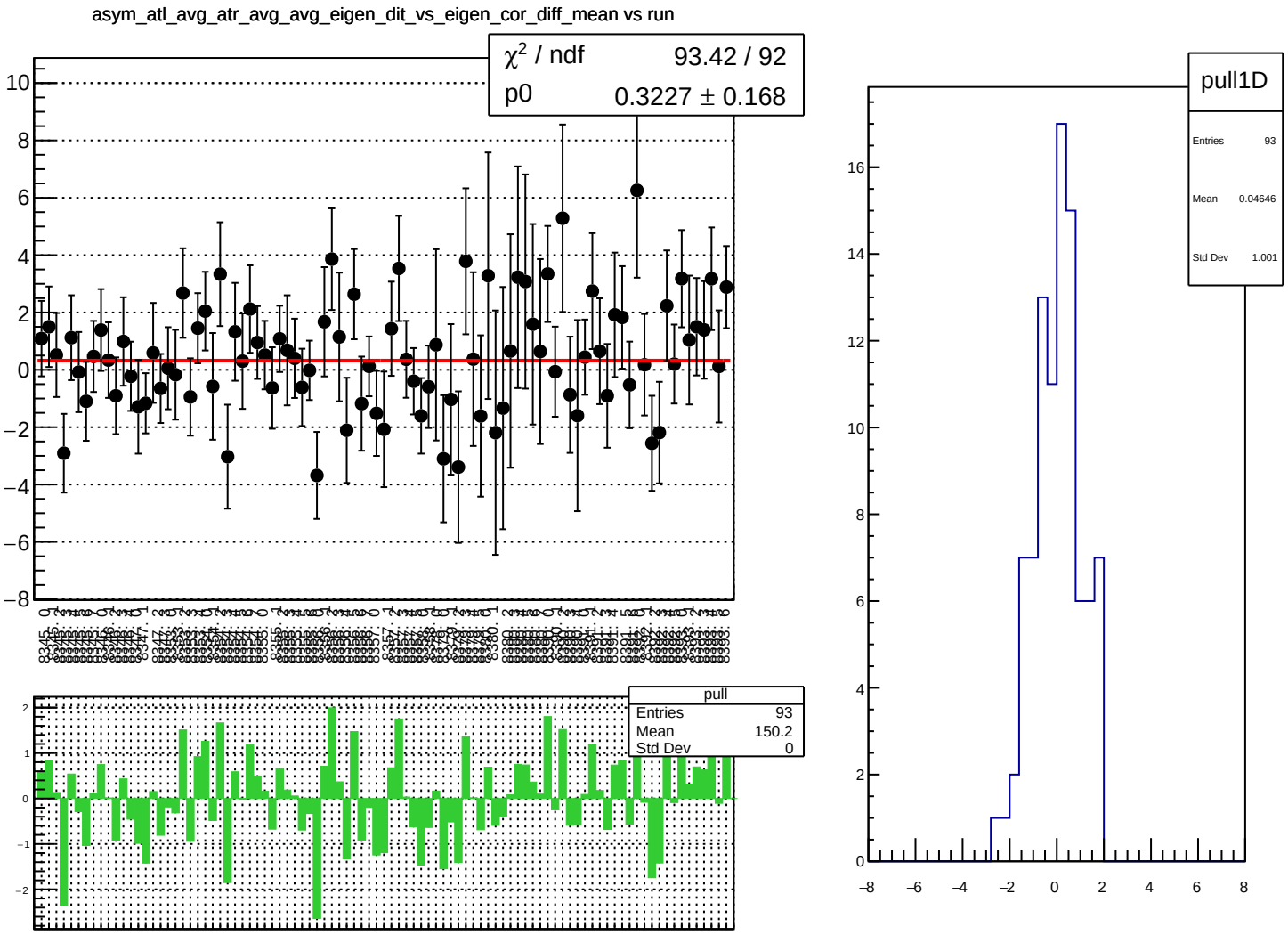

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.267e+05 / 92
p0 154.5 ± 0.1188
400
350
300
250
200
150
100

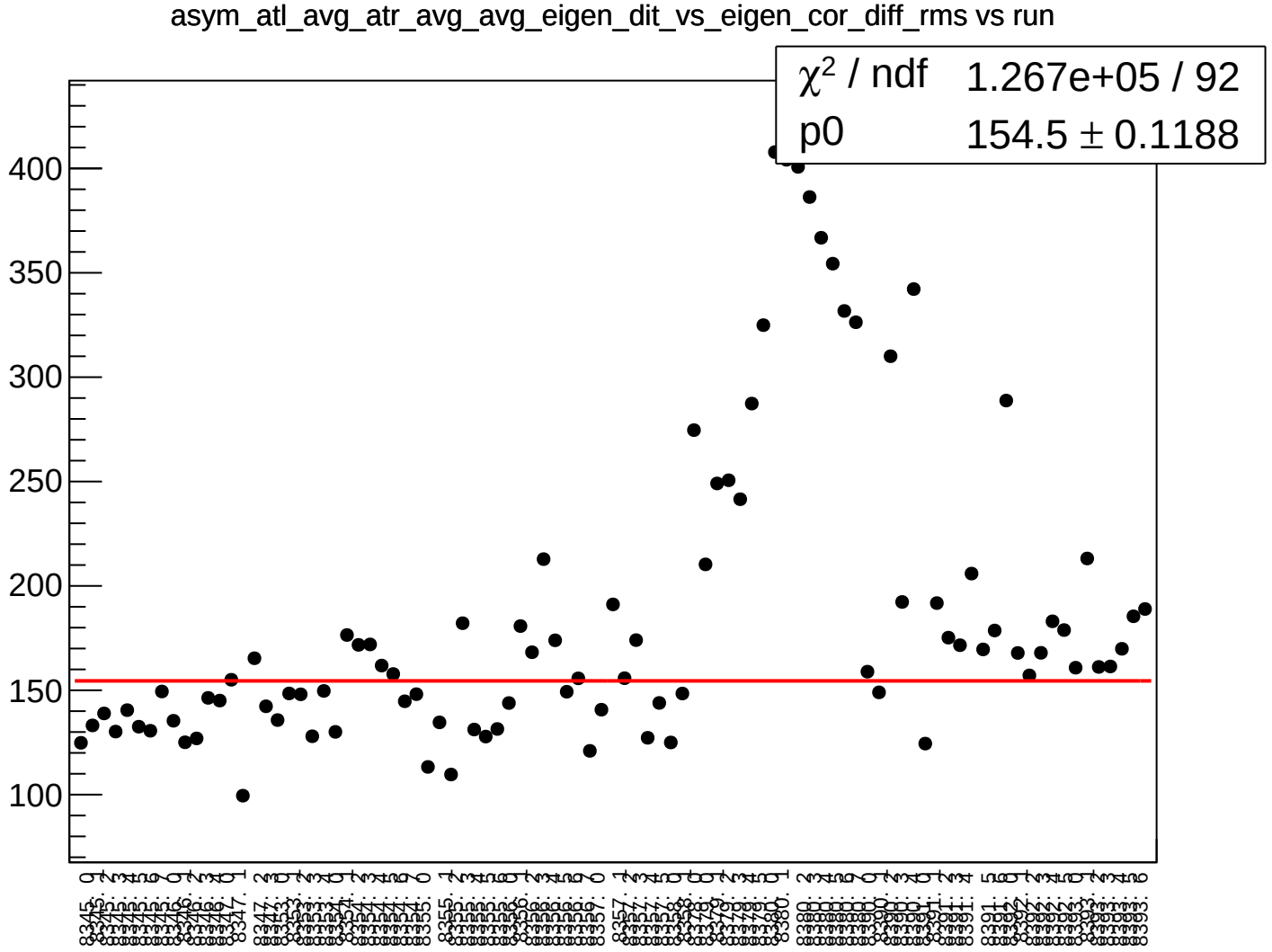

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 84.43 / 92
p0 −5.21e−06 ± 5.482e−06
pull
Entries 93
Mean −635.7
Std Dev 0
pull1D
Entries 93
Mean 0.0007529
Std Dev 0.9528

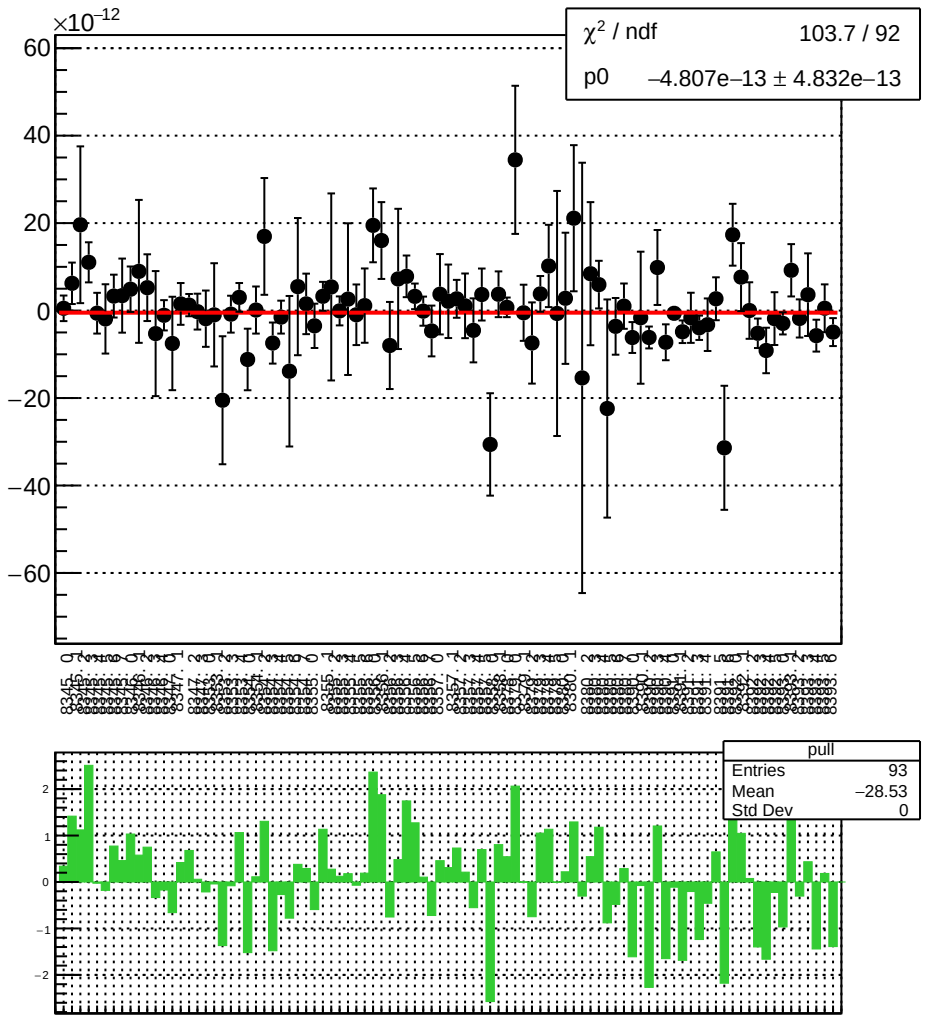

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.576e+05 / 92
p0 0.004997 ± 3.877e−06
0.008
0.007
0.006
0.005
0.004

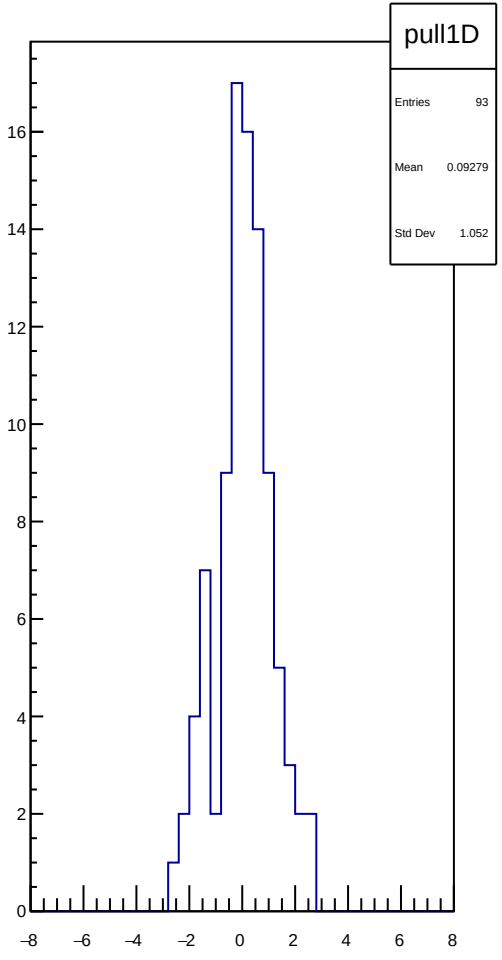

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.42 / 92
p0 0.3227 ± 0.168
pull
Entries 93
Mean 150.2
Std Dev 0
pull1D
Entries 93
Mean 0.04646
Std Dev 1.001

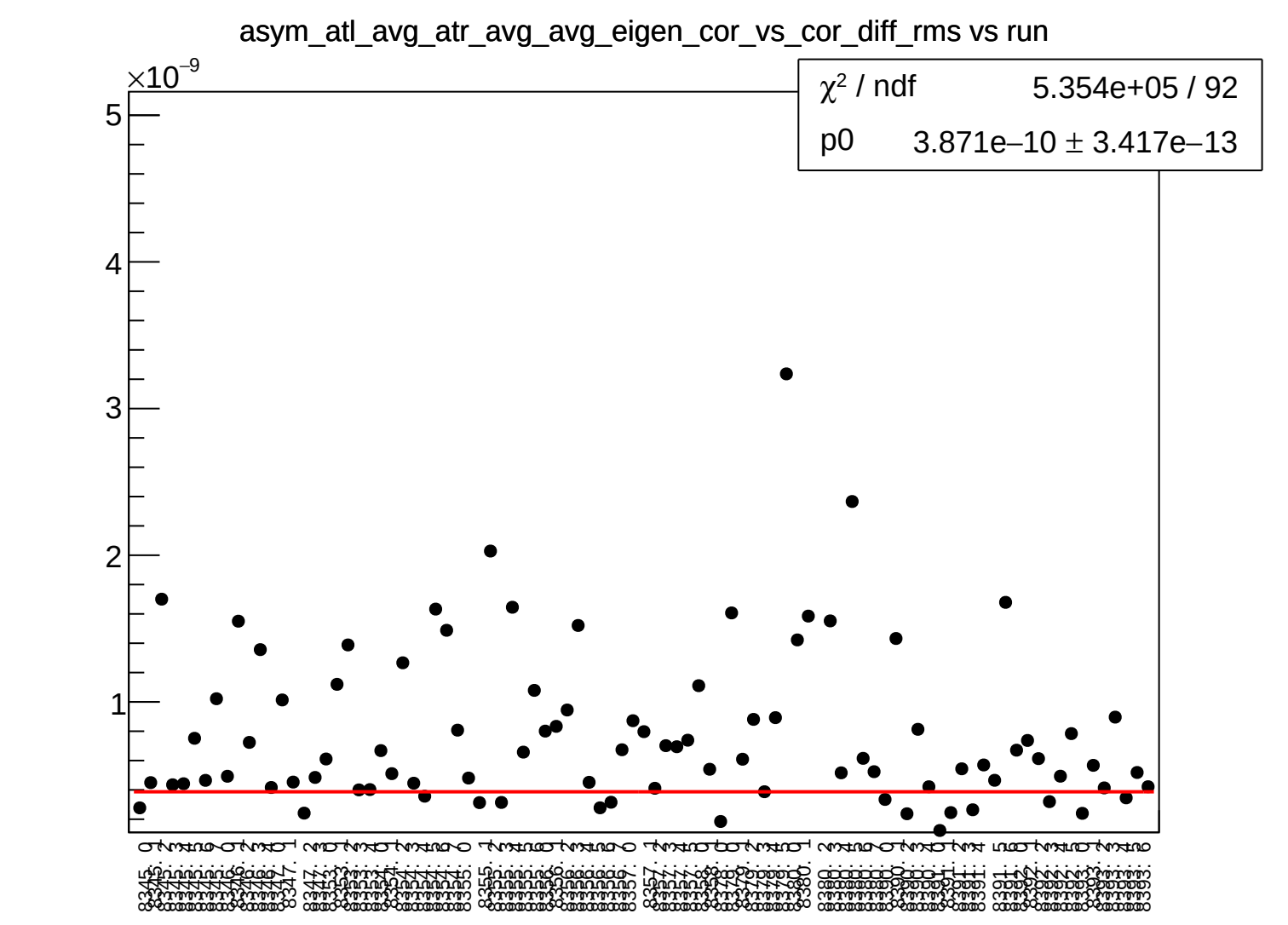

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.267e+05 / 92
p0 154.5 ± 0.1188
400
350
300
250
200
150
100

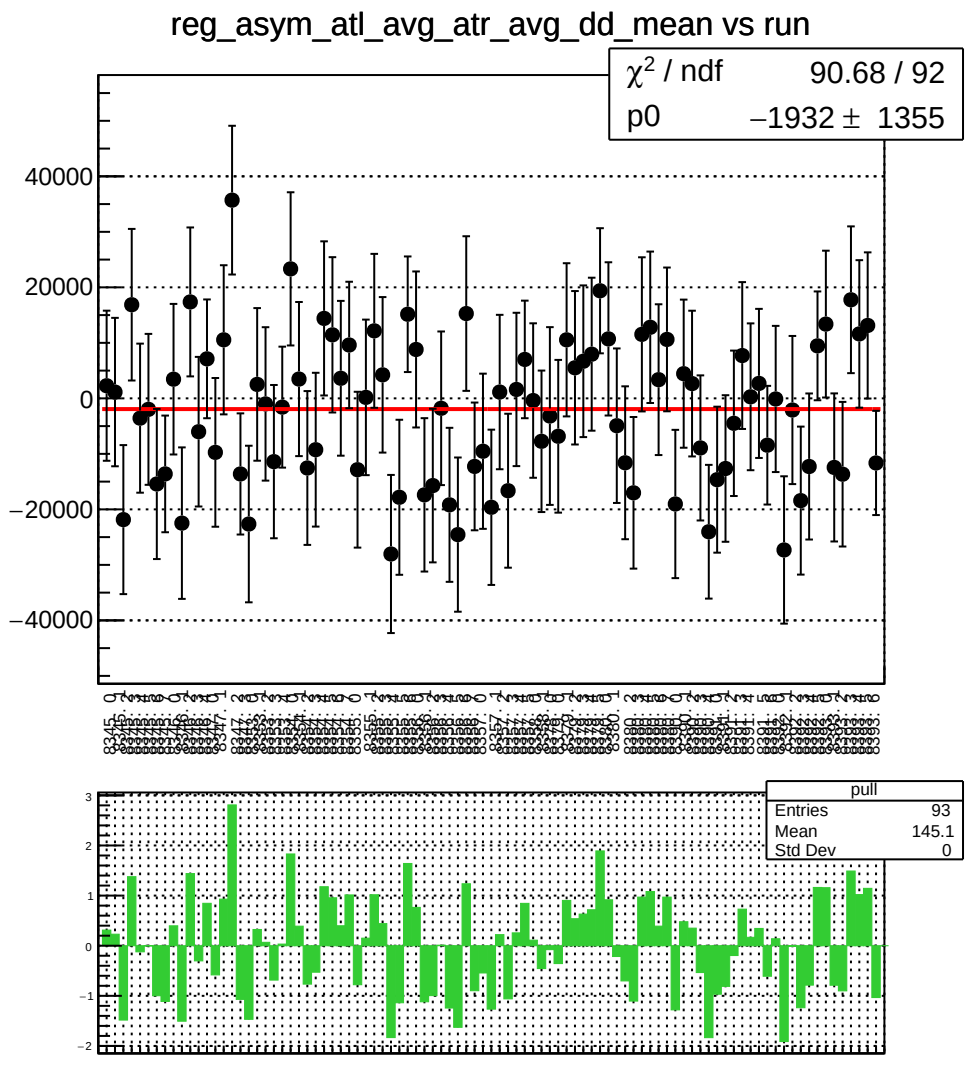

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.42 / 92
p0 0.3227 ± 0.168
pull
Entries 93
Mean 150.2
Std Dev 0
pull1D
Entries 93
Mean 0.04646
Std Dev 1.001

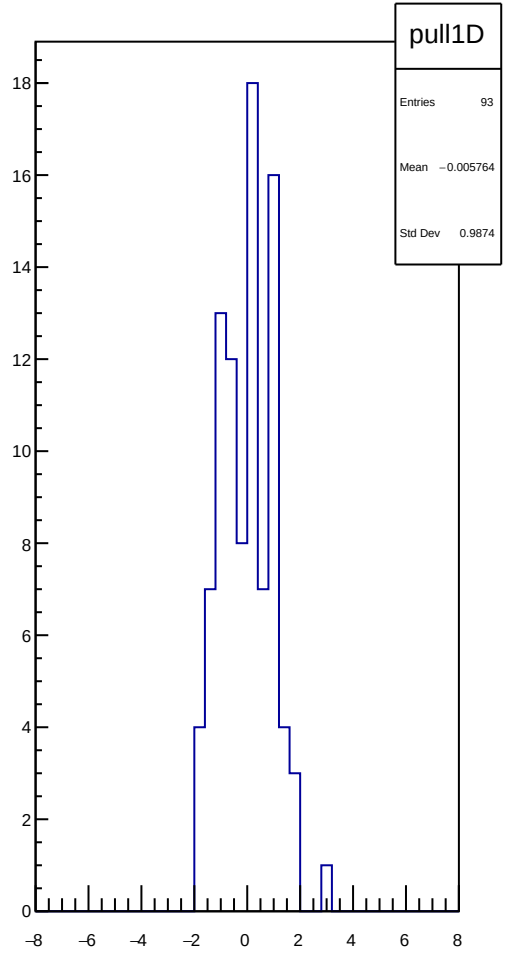

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.267e+05 / 92
p0 154.5 ± 0.1188
400
350
300
250
200
150
100

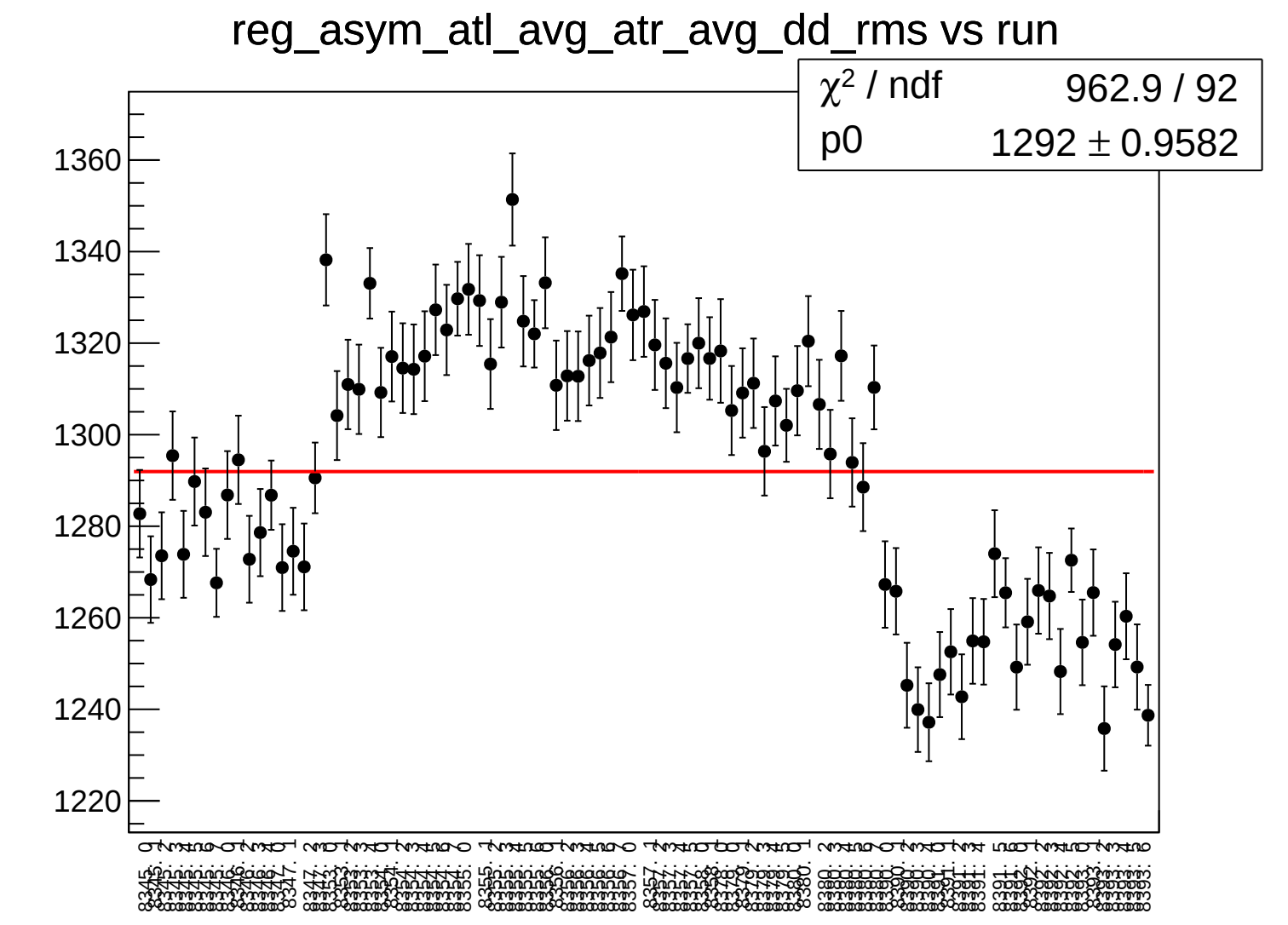

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 103.7 / 92
p0 −4.807e−13 ± 4.832e−13
pull
Entries 93
Mean −28.53
Std Dev 0

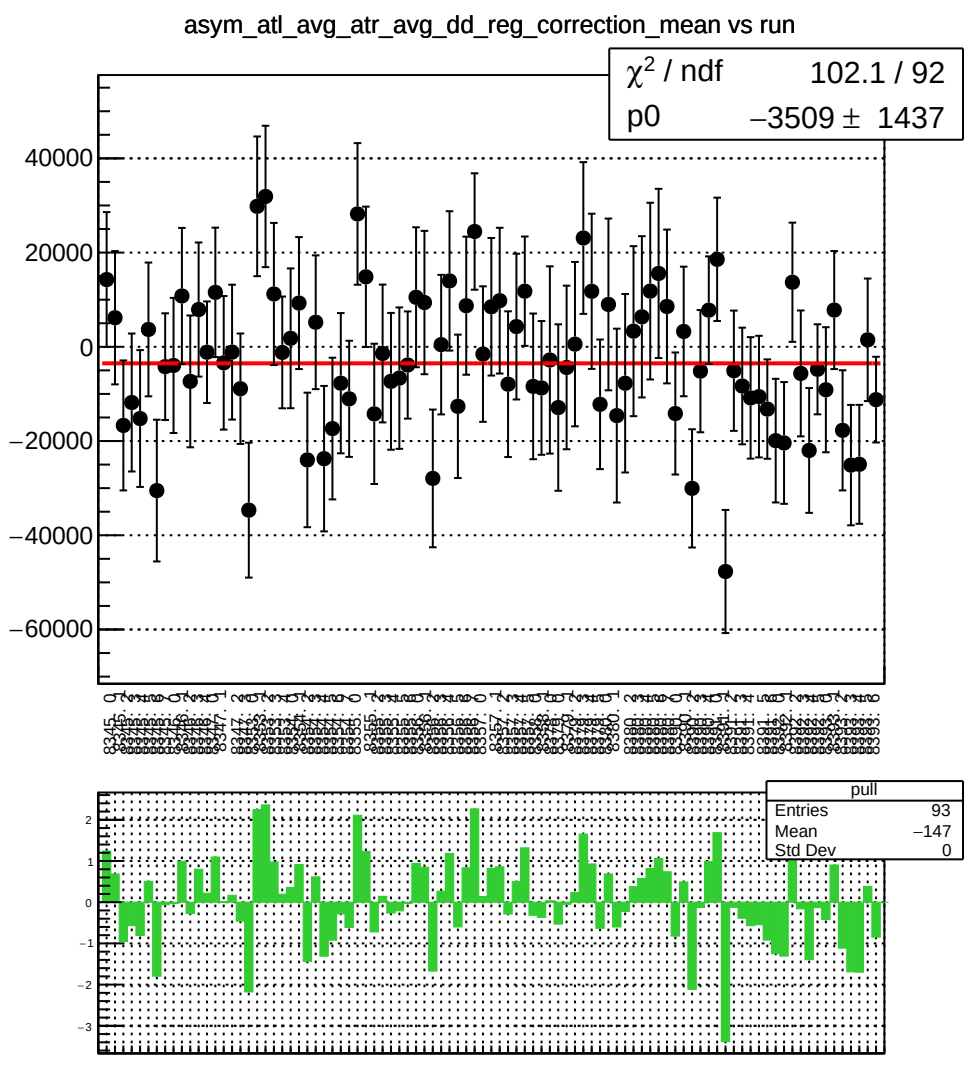

pull1D
Entries 93
Mean 0.09279
Std Dev 1.052

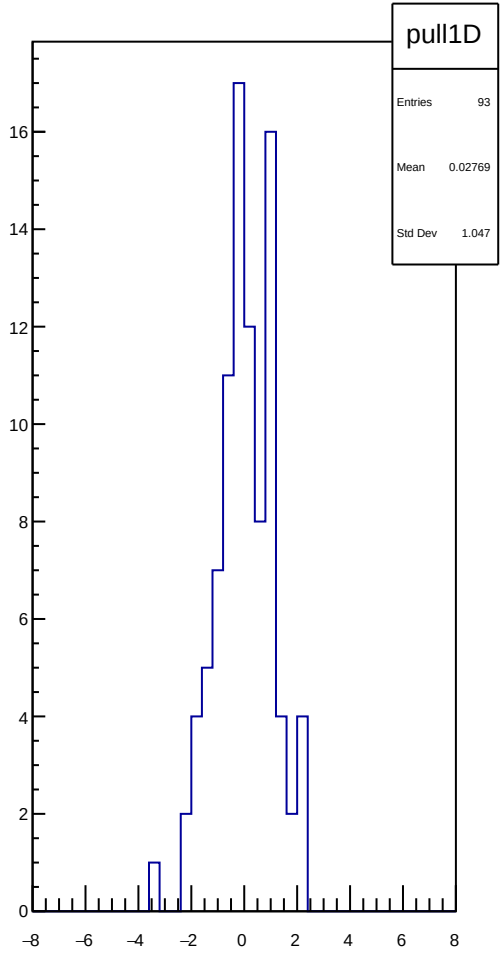

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.354e+05 / 92
p0 3.871e−10 ± 3.417e−13
5
4
3
2
1

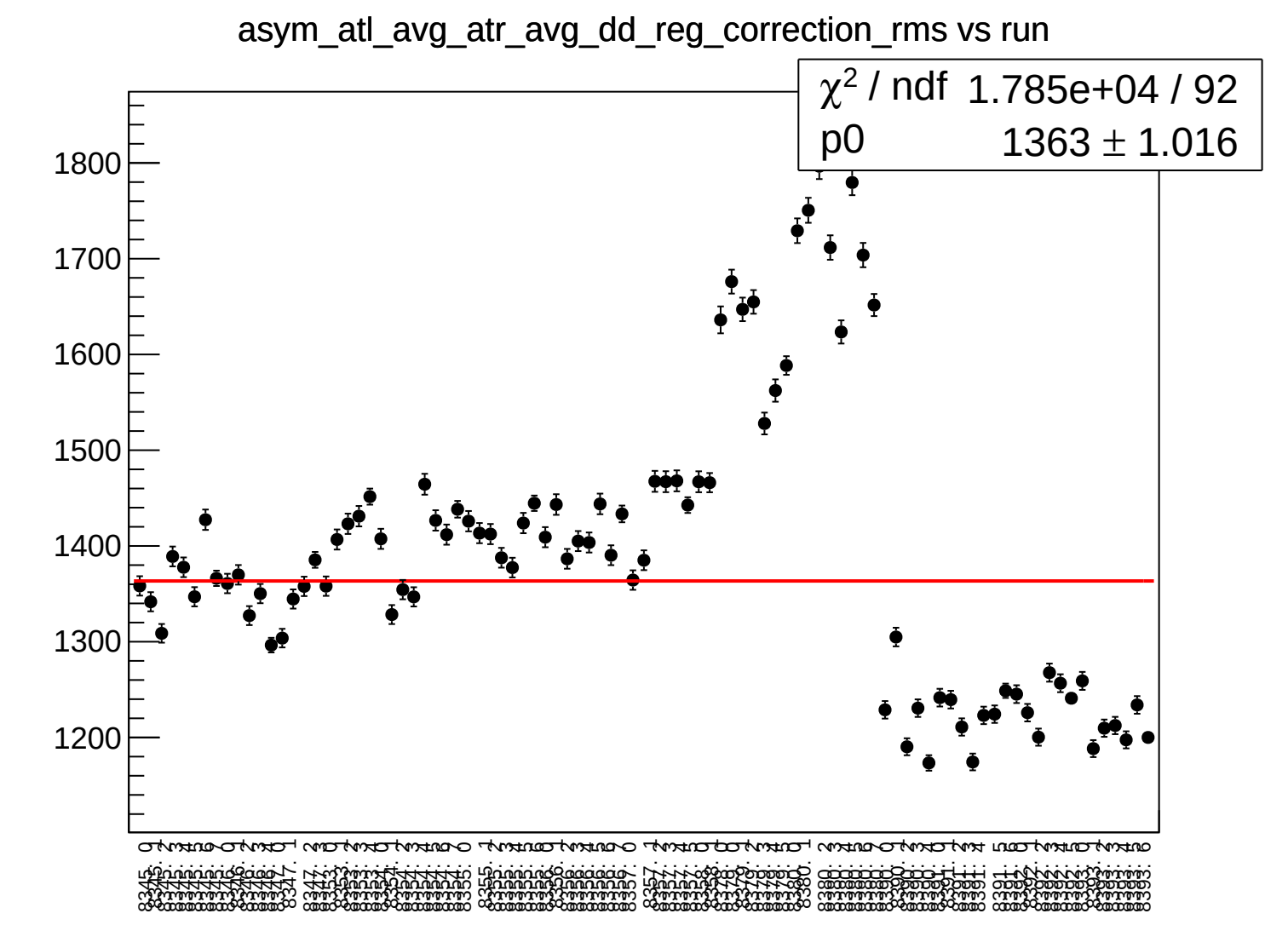

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 90.68 / 92
p0 −1932 ± 1355
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 145.1
Std Dev 0
3
2
1
0
−1
−2

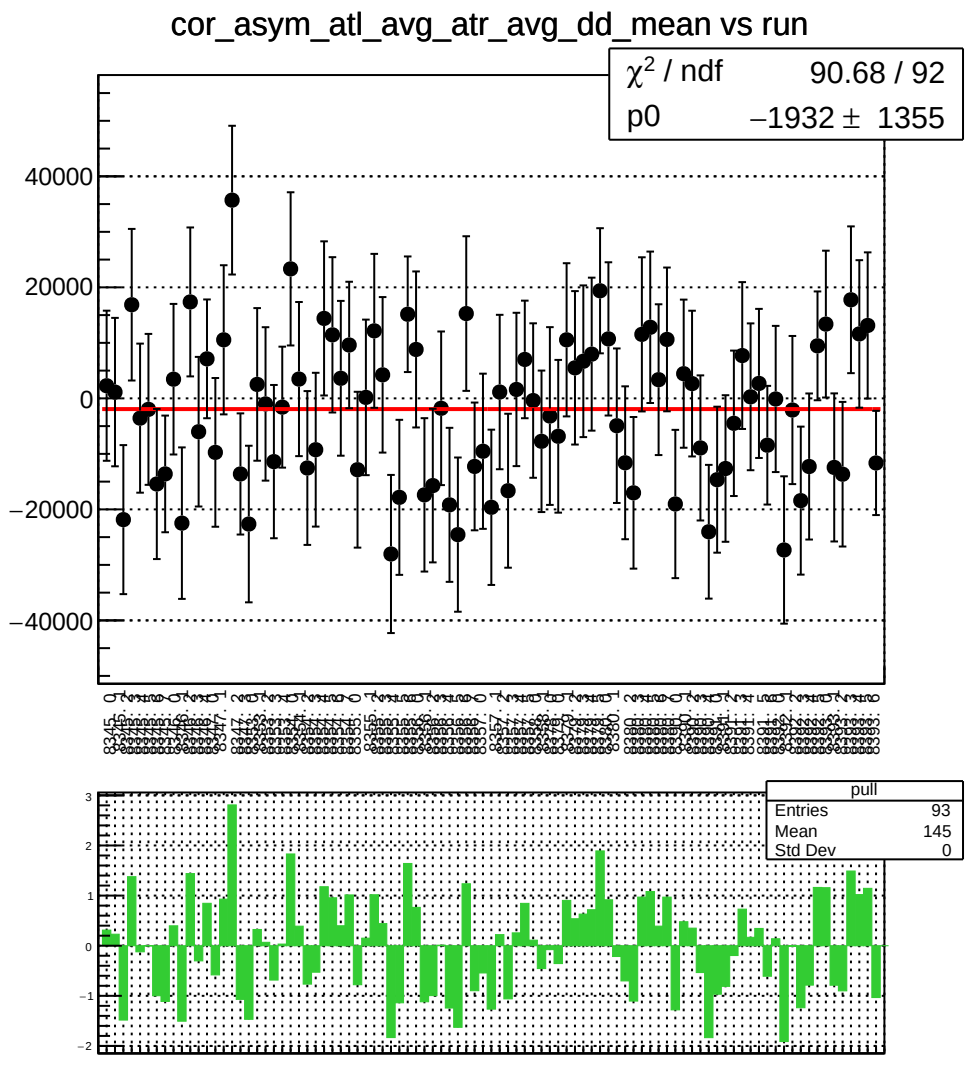

pull1D
Entries 93
Mean −0.005764
Std Dev 0.9874
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

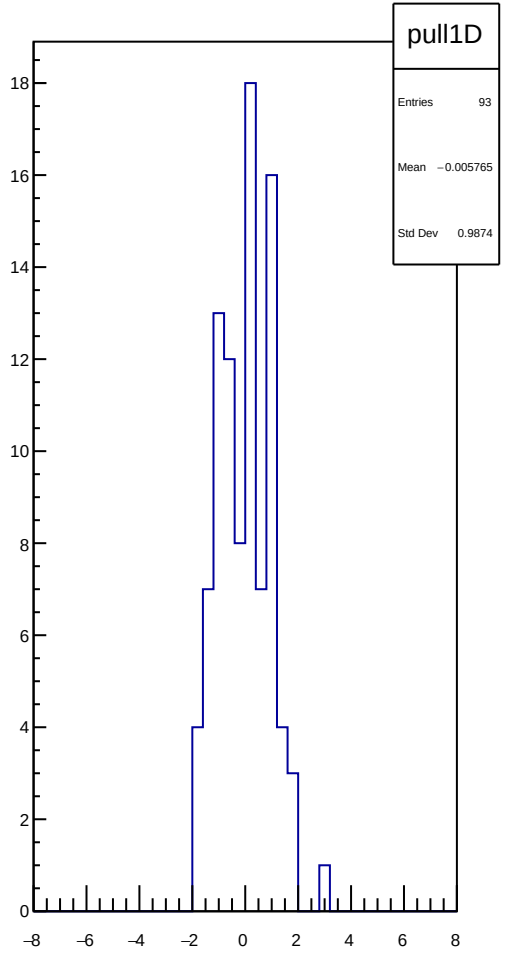

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 962.9 / 92
p0 1292 ± 0.9582
1360
1340
1320
1300
1280
1260
1240
1220

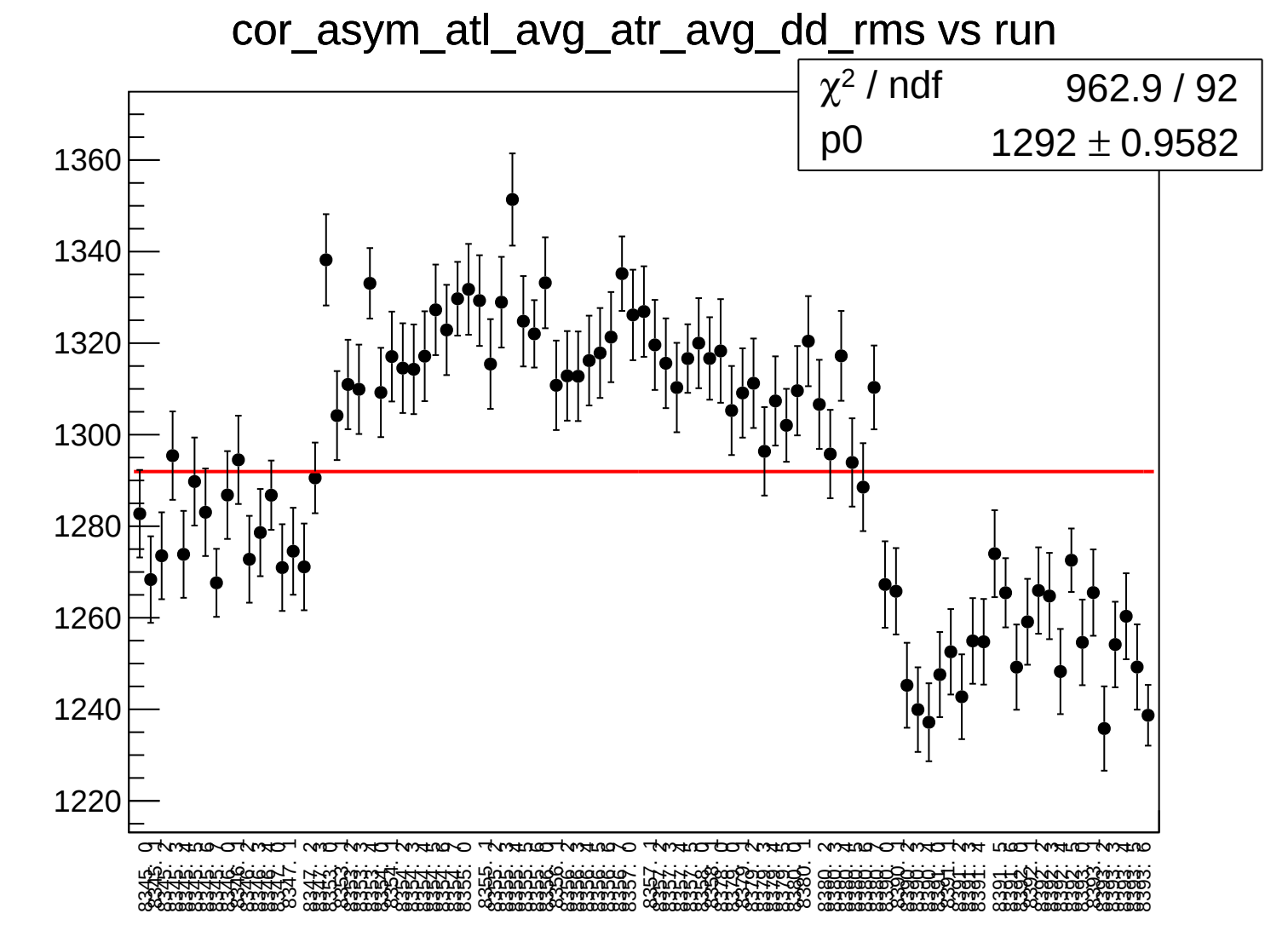

asym_atl_avg_atr_avg_dd_reg_correction_mean vs run
χ² / ndf 102.1 / 92
p0 −3509 ± 1437
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −147
Std Dev 0
2
1
0
−1
−2
−3

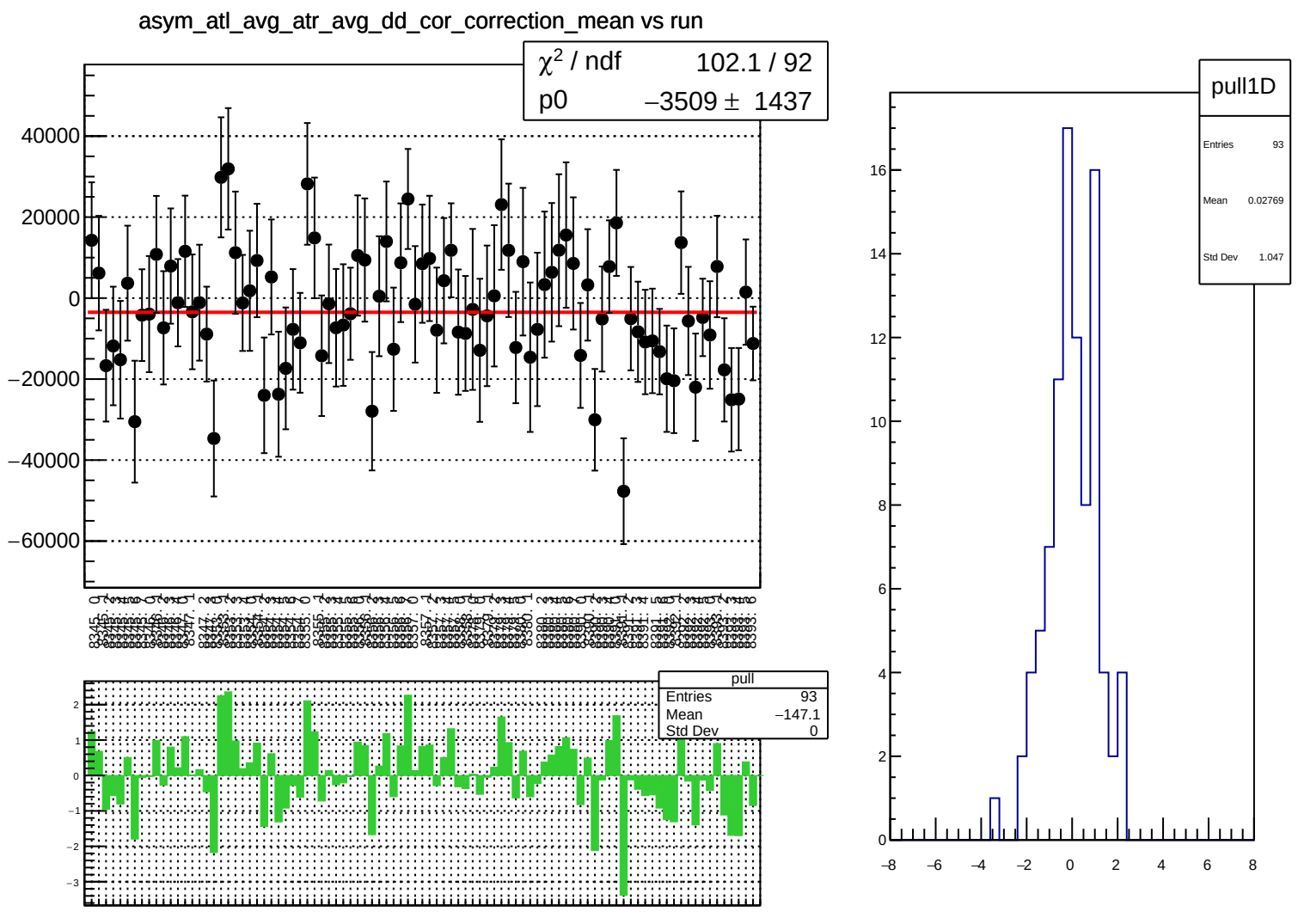

pull1D
Entries 93
Mean 0.02769
Std Dev 1.047
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

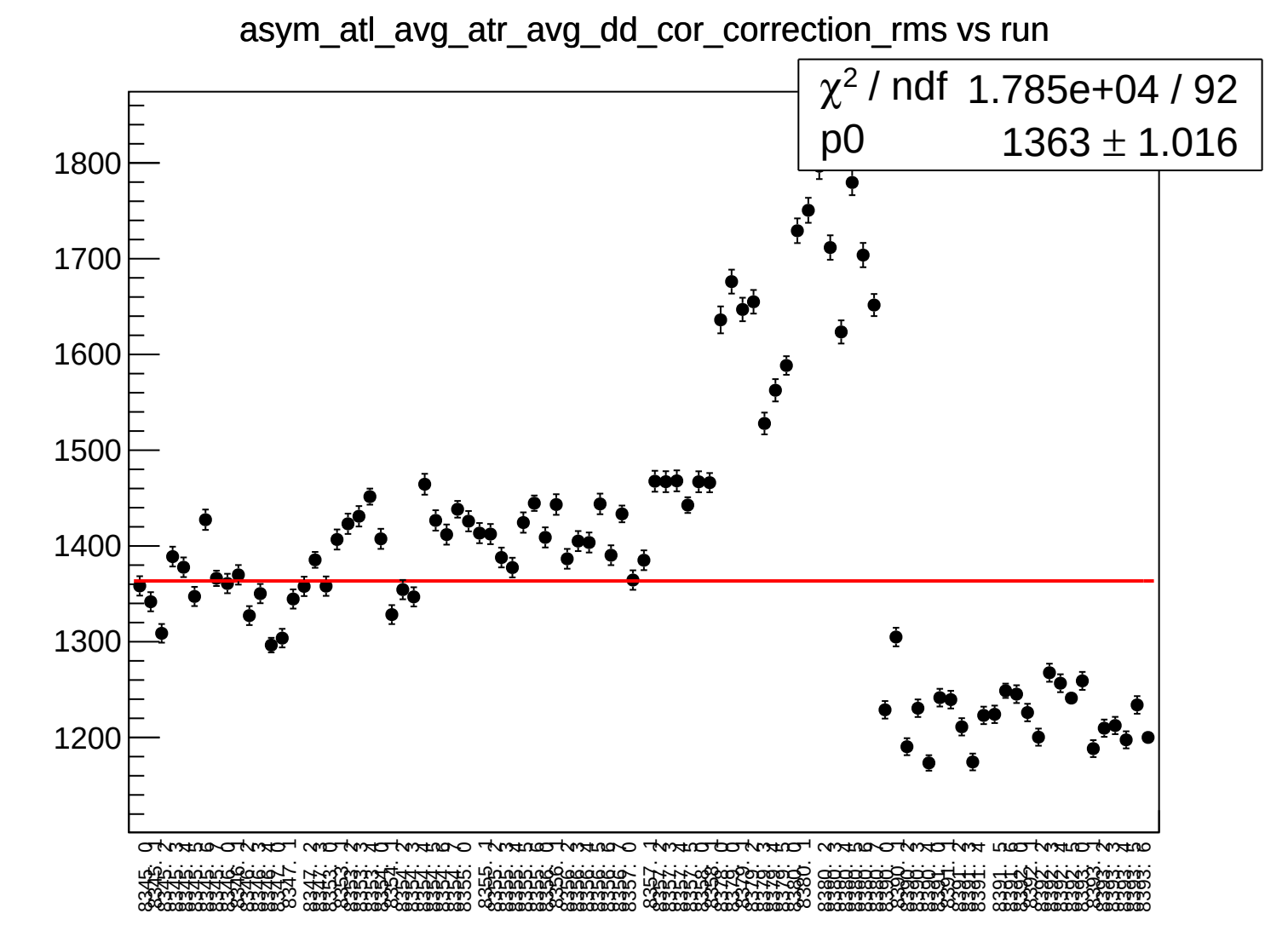

asym_atl_avg_atr_avg_dd_reg_correction_rms vs run
χ² / ndf 1.785e+04 / 92
p0 1363 ± 1.016
1800
1700
1600
1500
1400
1300
1200

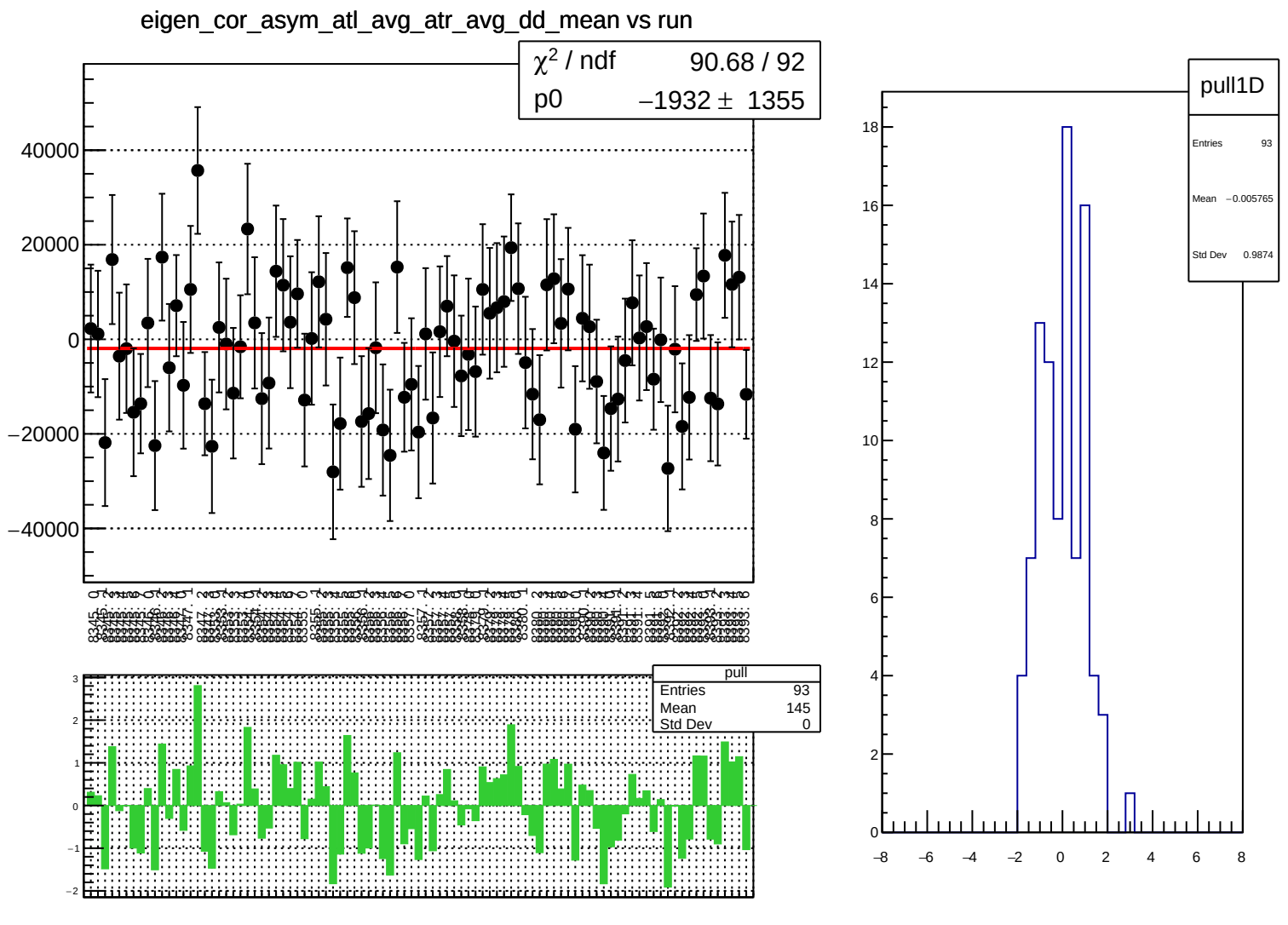

cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 90.68 / 92
p0 −1932 ± 1355
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 145
Std Dev 0
3
2
1
0
−1
−2

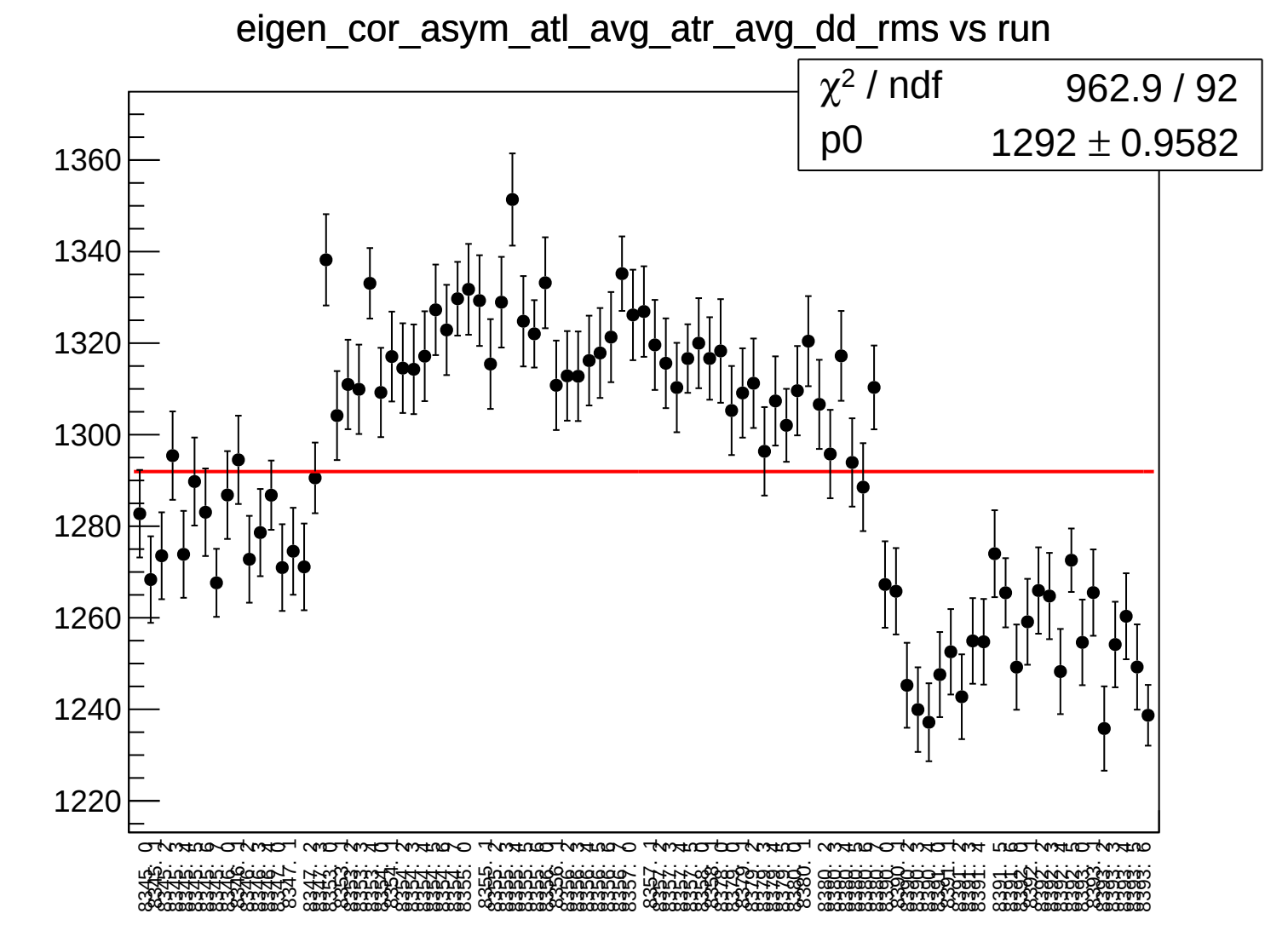

pull1D
Entries 93
Mean −0.005765
Std Dev 0.9874
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

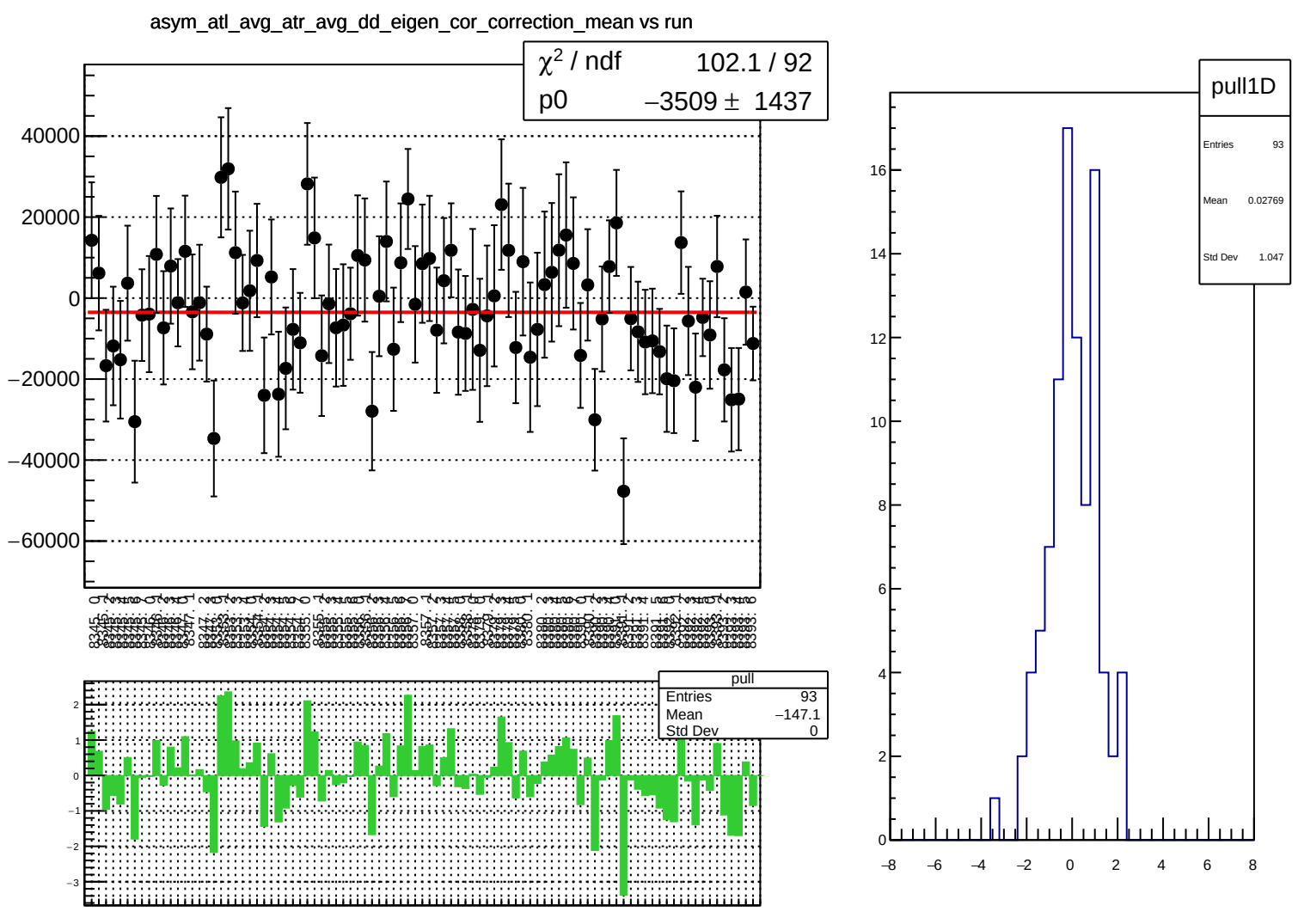

cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 962.9 / 92
p0 1292 ± 0.9582
1360
1340
1320
1300
1280
1260
1240
1220

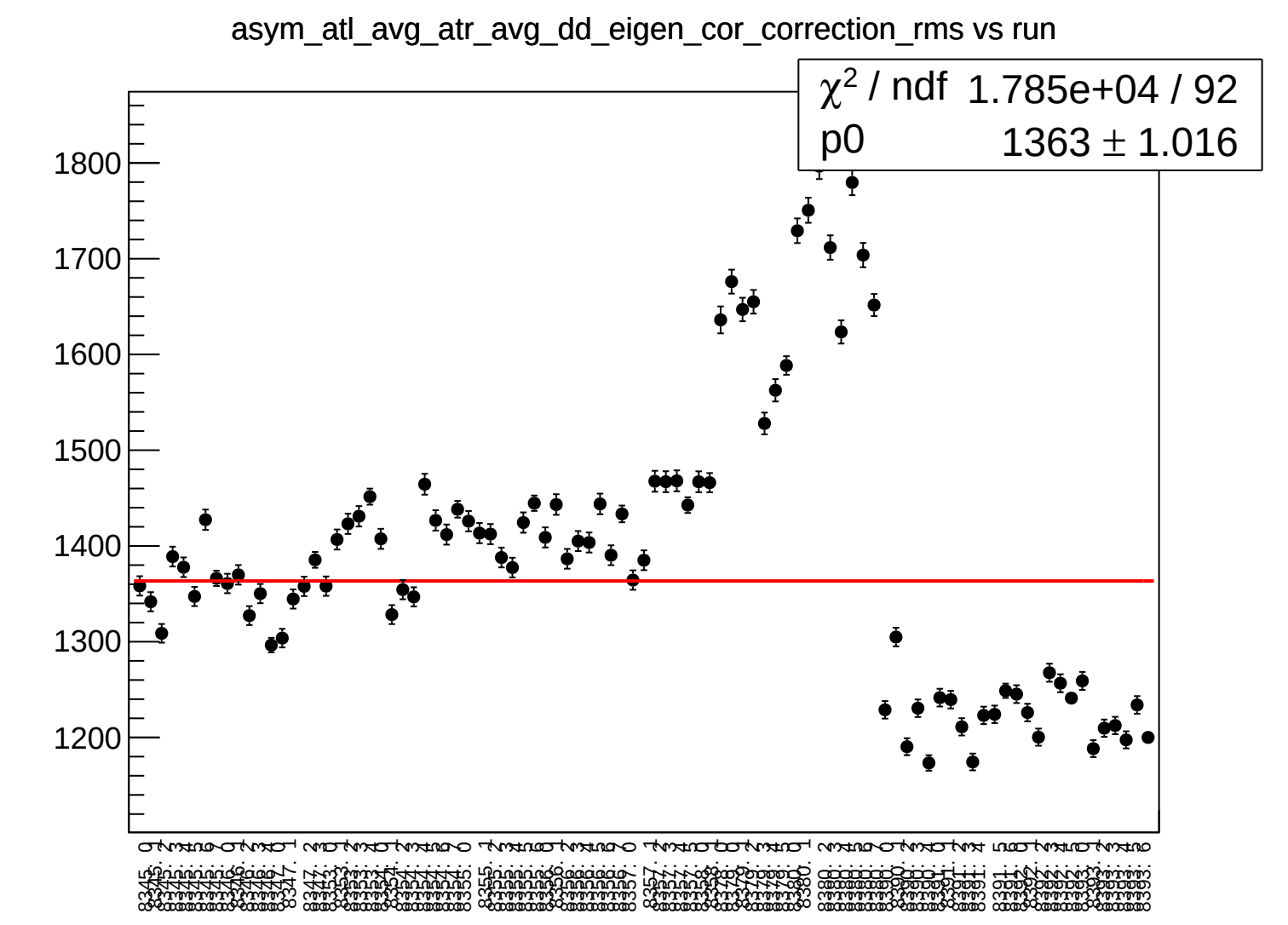

asym_atl_avg_atr_avg_dd_cor_correction_mean vs run
χ² / ndf 102.1 / 92
p0 −3509 ± 1437
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −147.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.02769
Std Dev 1.047
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

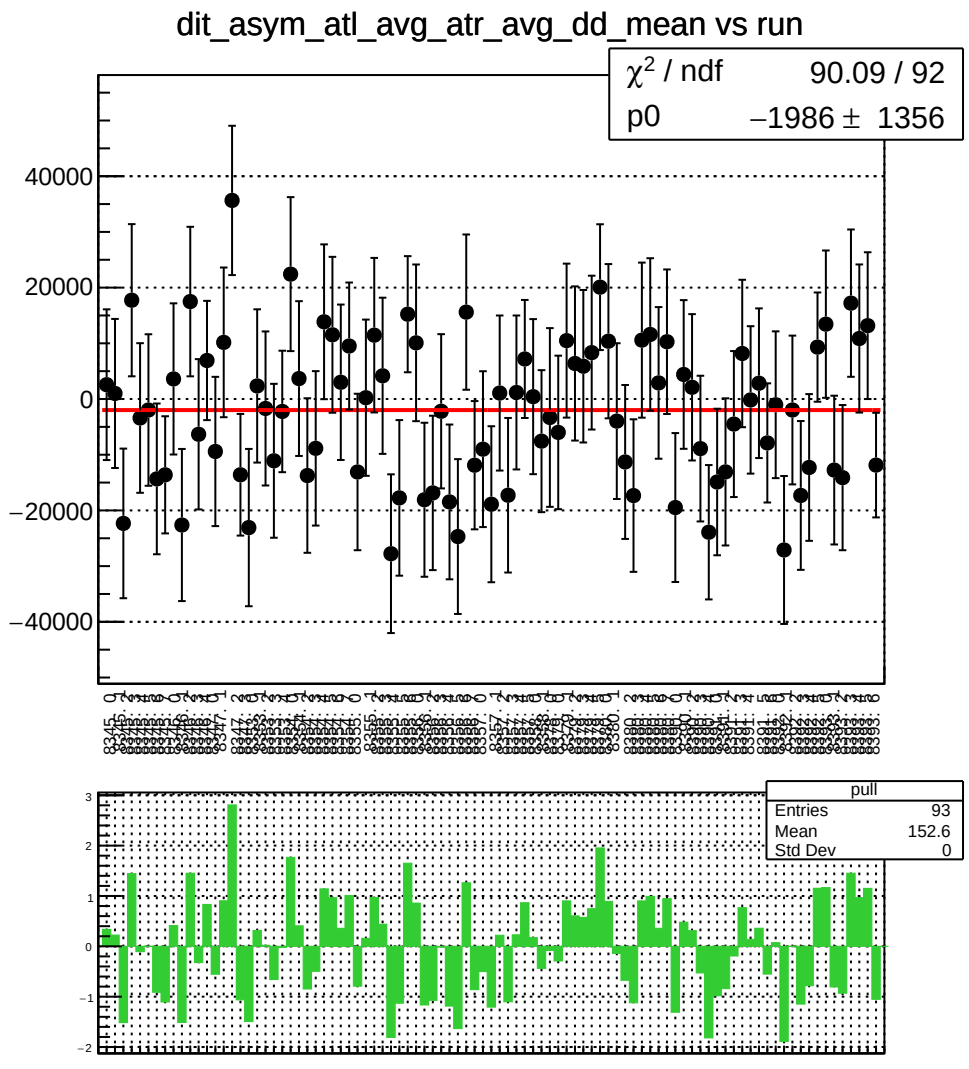

asym_atl_avg_atr_avg_dd_cor_correction_rms vs run
χ² / ndf 1.785e+04 / 92
p0 1363 ± 1.016
1800
1700
1600
1500
1400
1300
1200

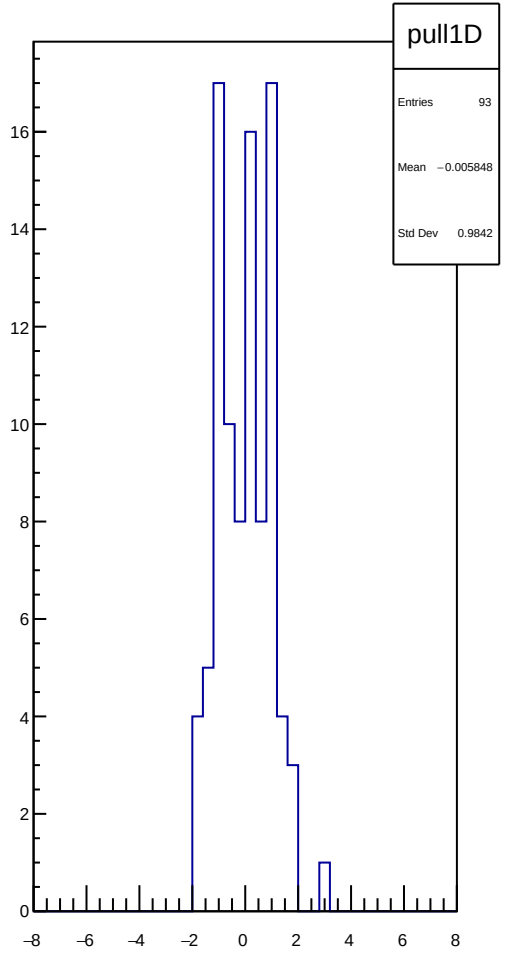

eigen_cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 90.68 / 92
p0 −1932 ± 1355
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 145
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.005765
Std Dev 0.9874
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

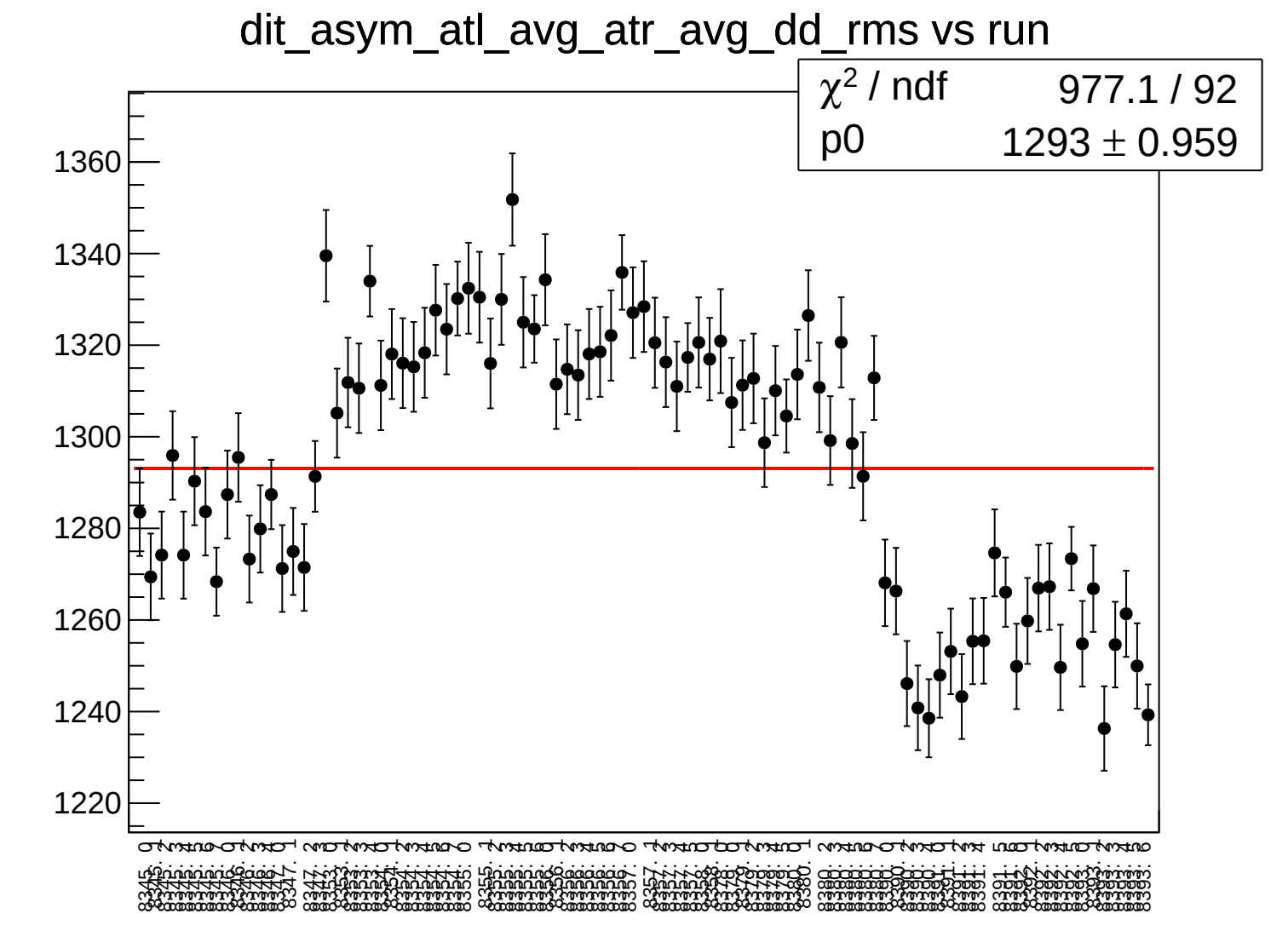

eigen_cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 962.9 / 92
p0 1292 ± 0.9582
1360
1340
1320
1300
1280
1260
1240
1220

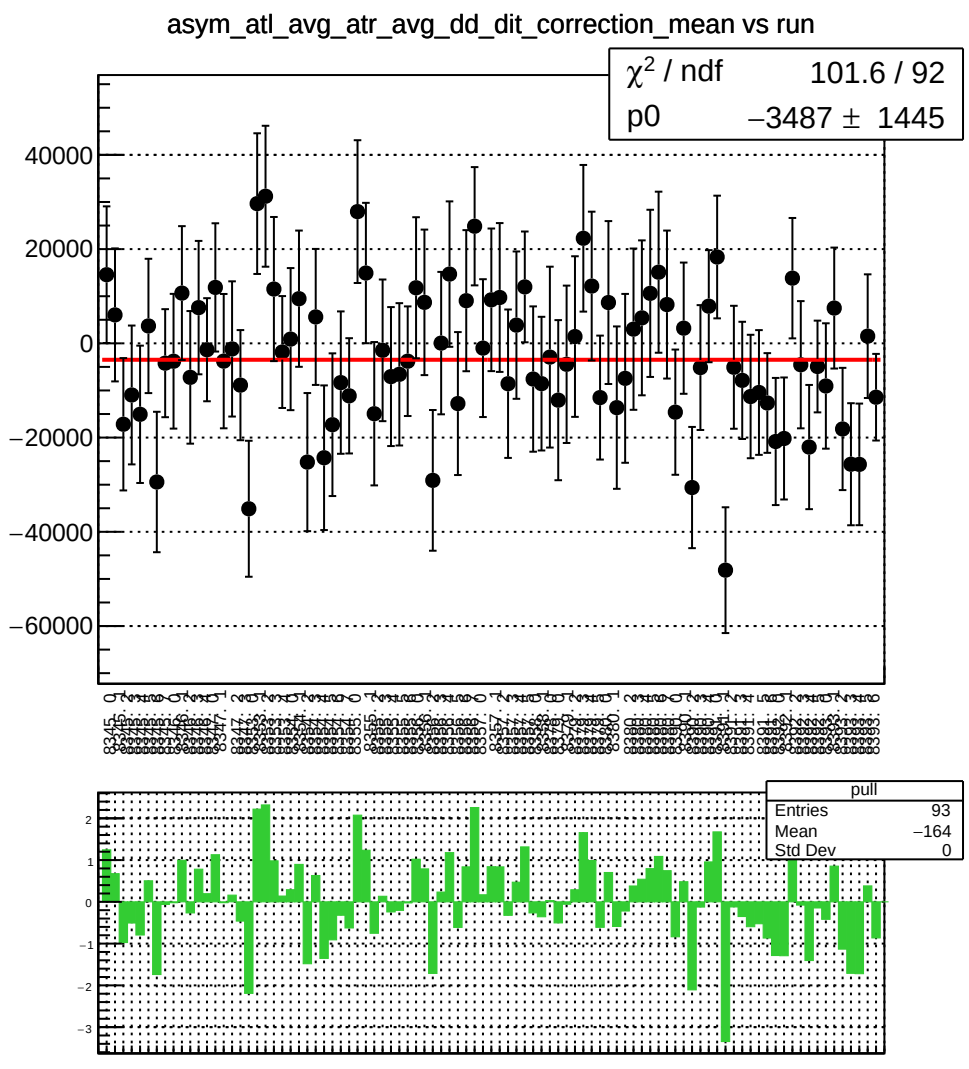

asym_atl_avg_atr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 102.1 / 92
p0 −3509 ± 1437
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −147.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.02769
Std Dev 1.047
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

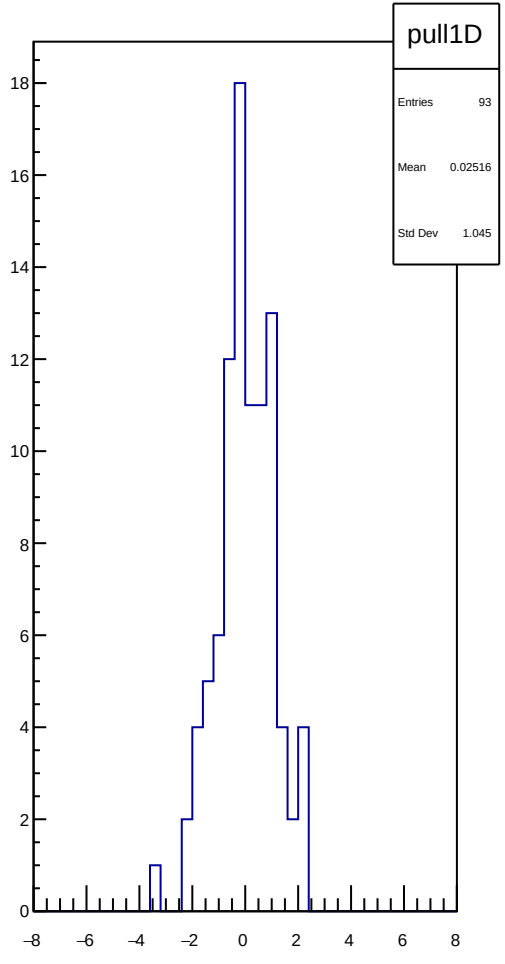

asym_atl_avg_atr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.785e+04 / 92
p0 1363 ± 1.016
1800
1700
1600
1500
1400
1300
1200

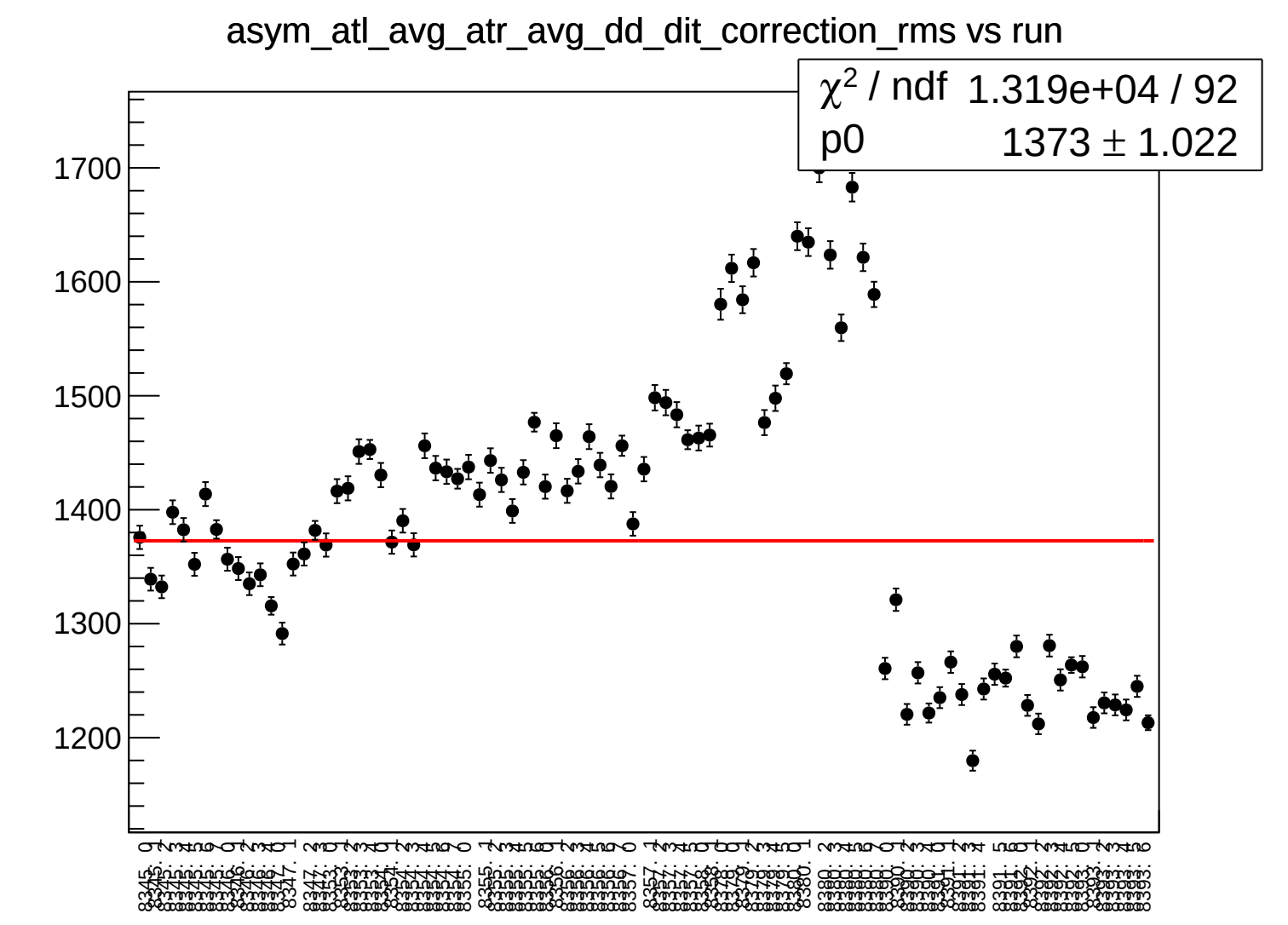

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 90.09 / 92
p0 −1986 ± 1356
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 152.6
Std Dev 0
3
2
1
0
−1
−2

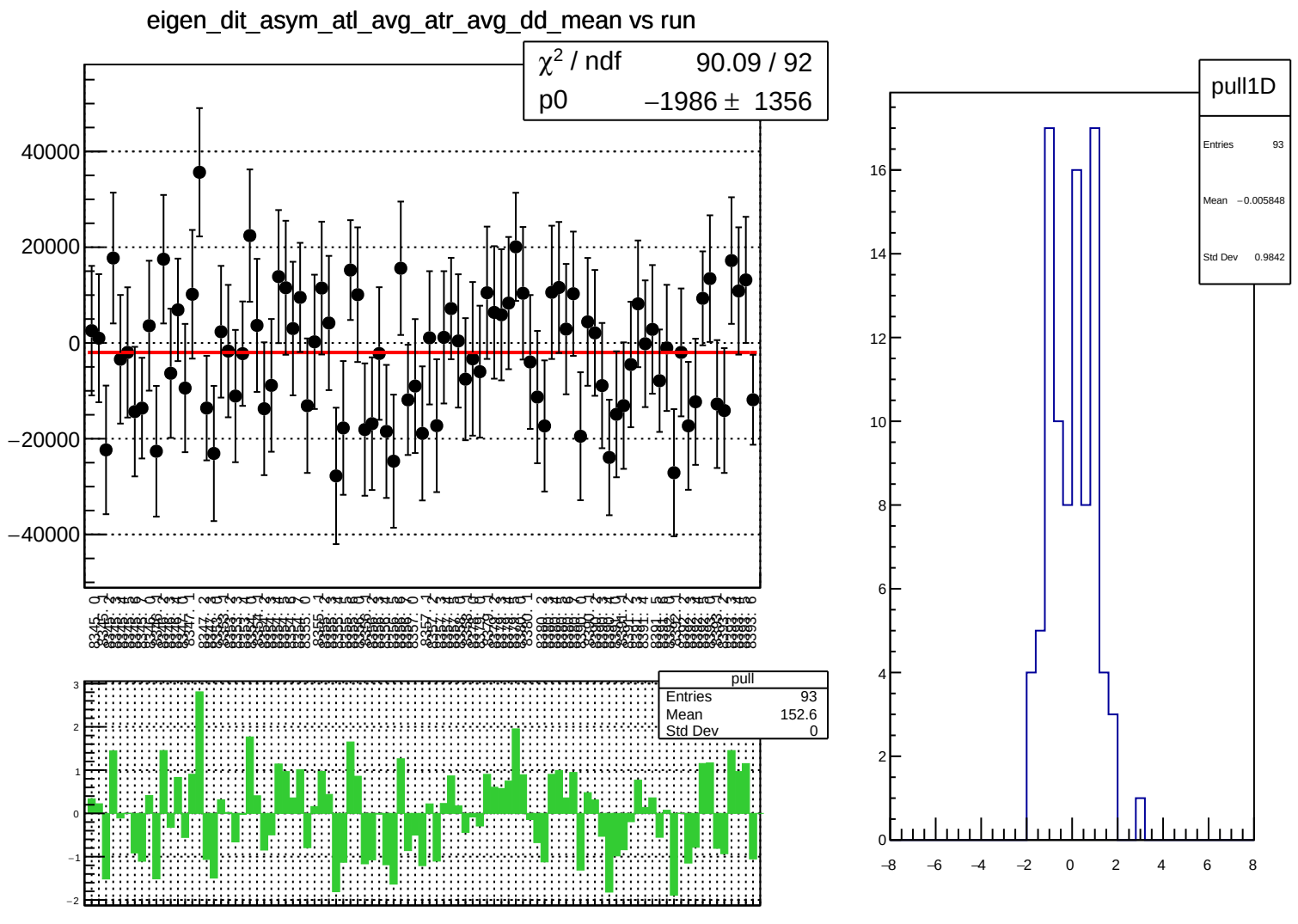

pull1D
Entries 93
Mean −0.005848
Std Dev 0.9842
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

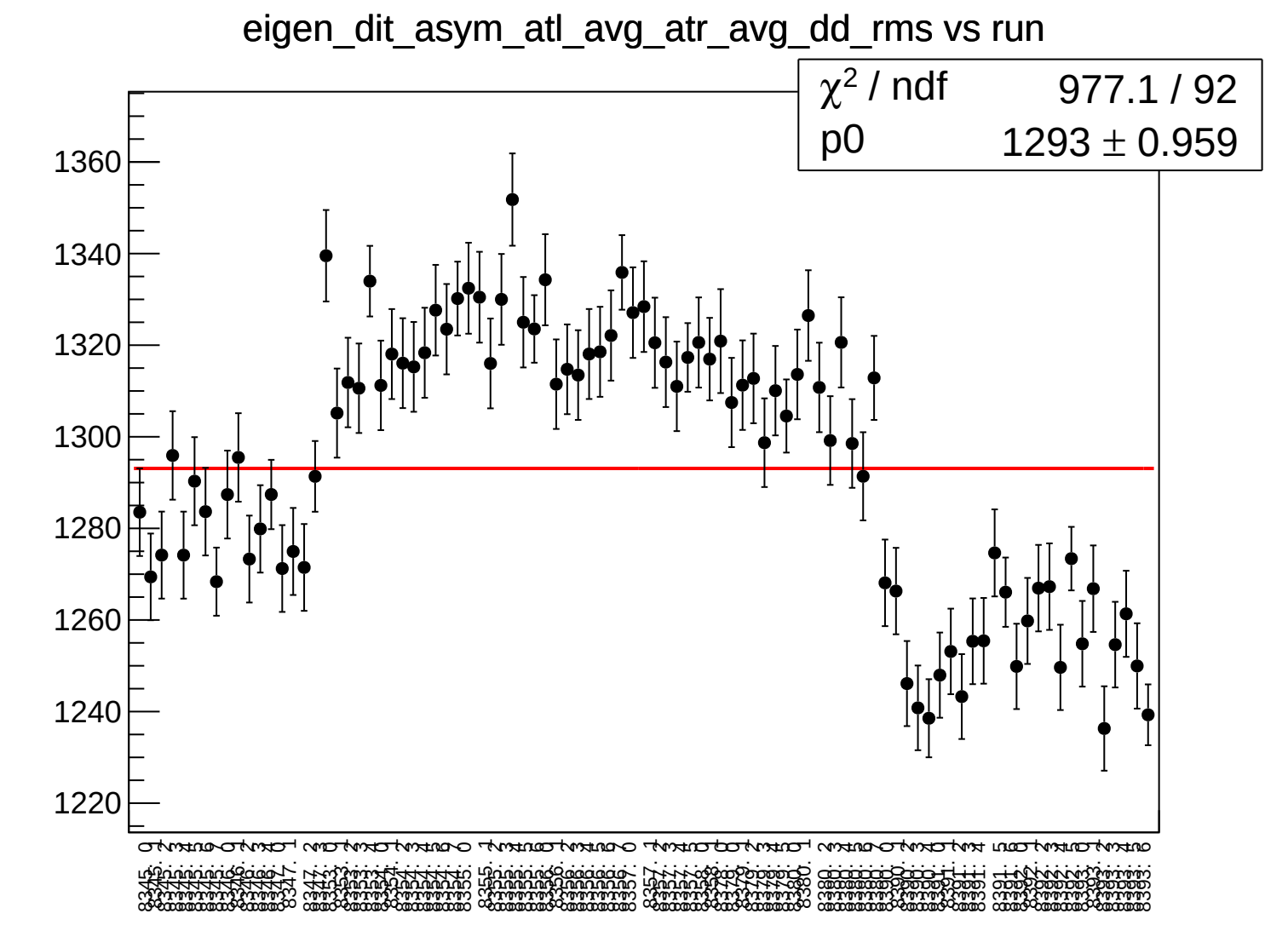

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 977.1 / 92
p0 1293 ± 0.959
1360
1340
1320
1300
1280
1260
1240
1220

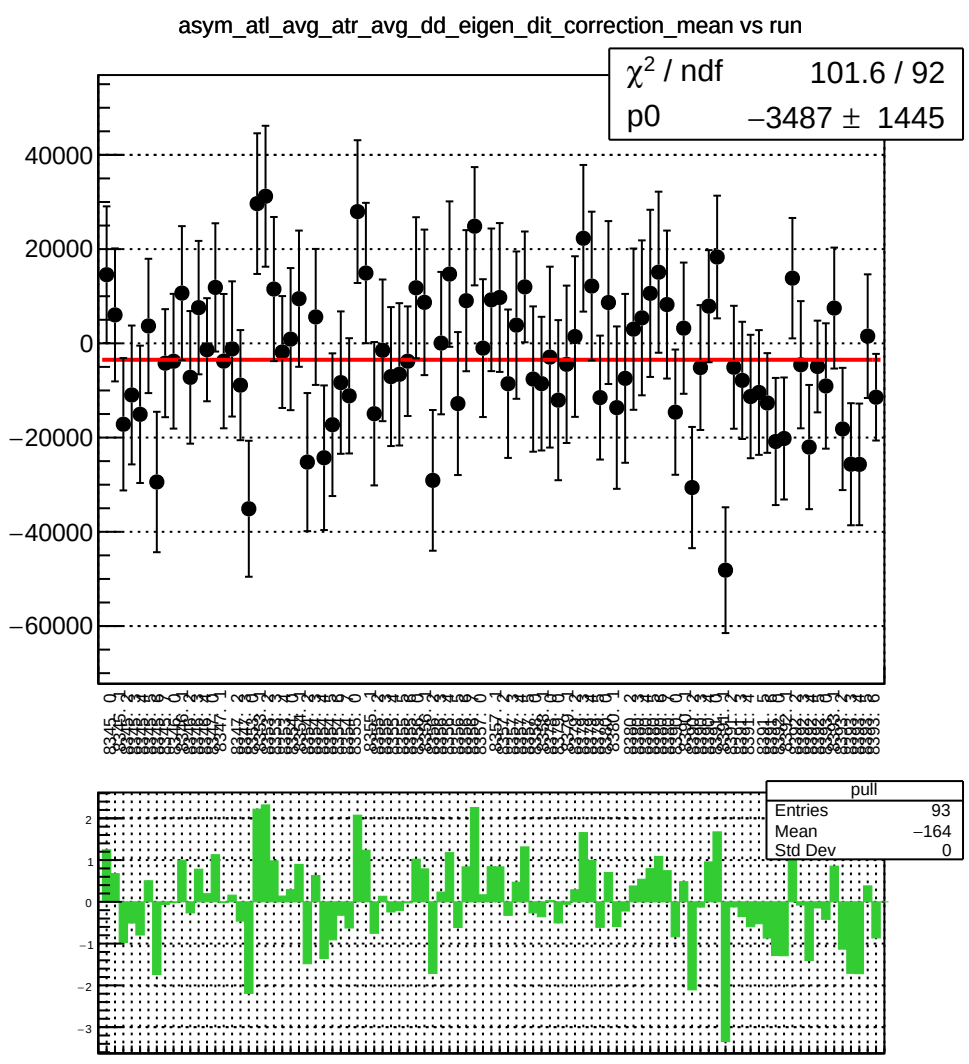

asym_atl_avg_atr_avg_dd_dit_correction_mean vs run
χ² / ndf 101.6 / 92
p0 −3487 ± 1445
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −164
Std Dev 0
2
1
0
−1
−2
−3

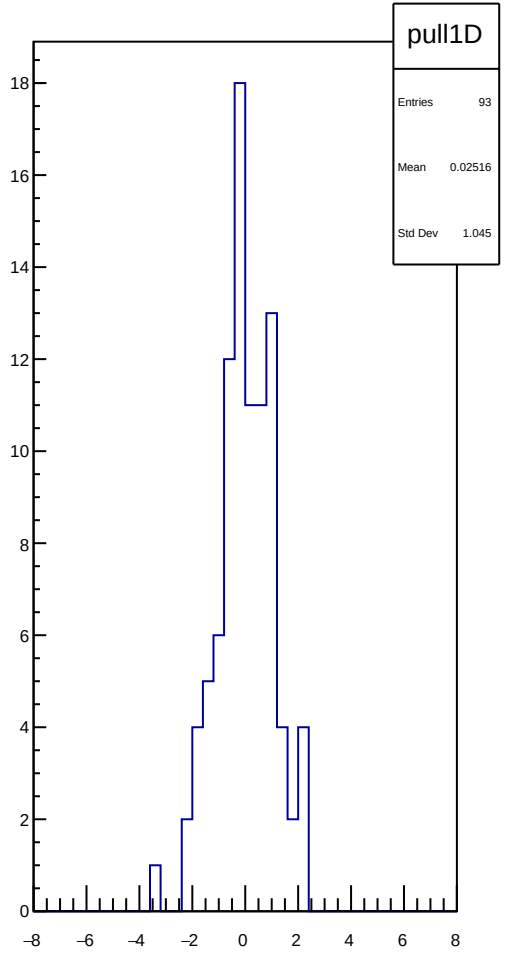

pull1D
Entries 93
Mean 0.02516
Std Dev 1.045
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

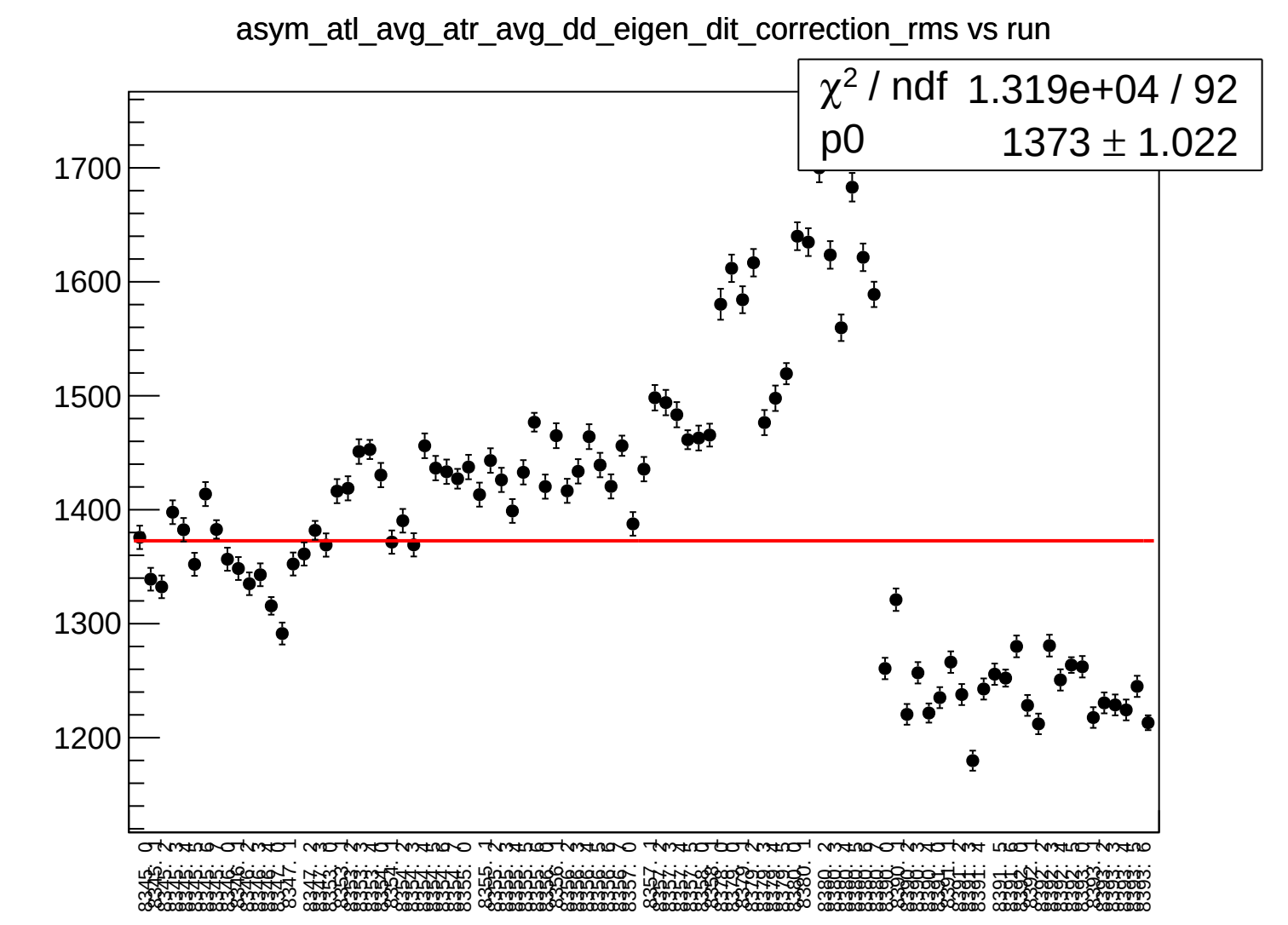

asym_atl_avg_atr_avg_dd_dit_correction_rms vs run
χ² / ndf 1.319e+04 / 92
p0 1373 ± 1.022
1700
1600
1500
1400
1300
1200

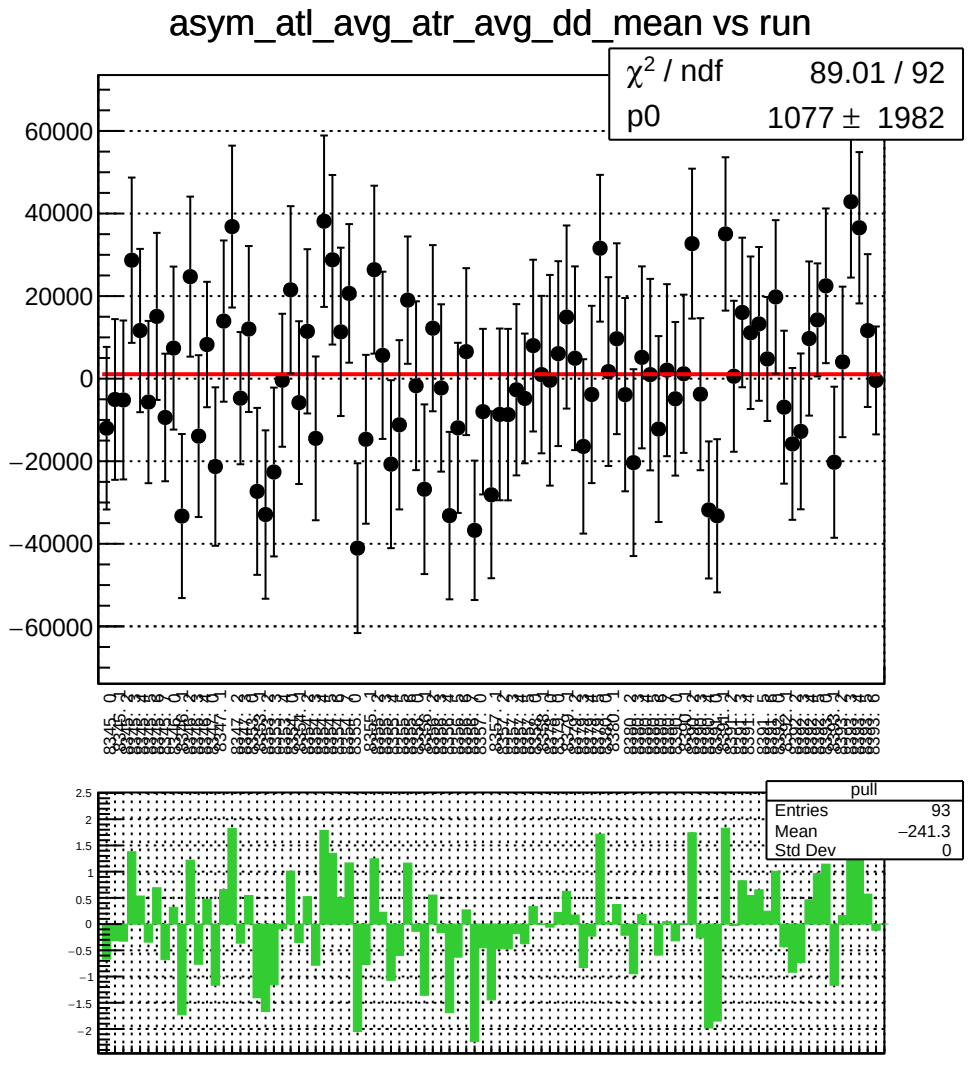

eigen_dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 90.09 / 92
p0 −1986 ± 1356
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 152.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.005848
Std Dev 0.9842
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

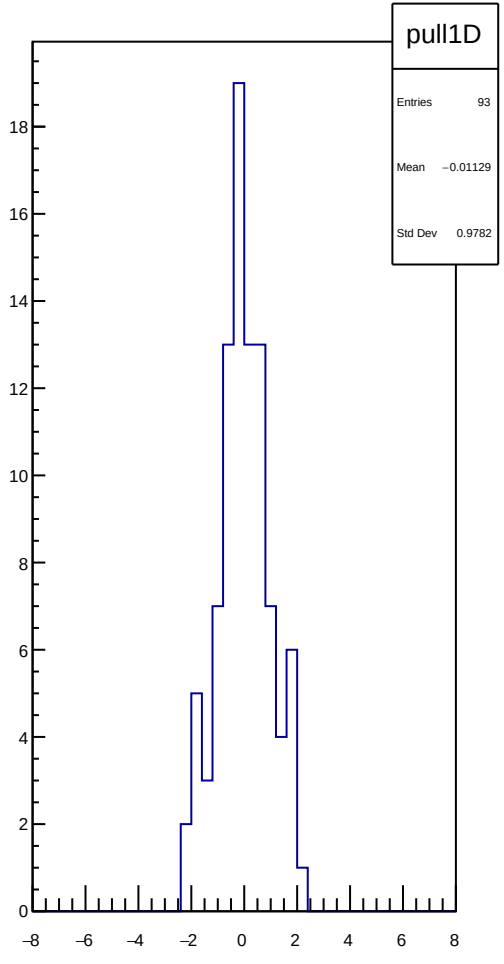

eigen_dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 977.1 / 92
p0 1293 ± 0.959
1360
1340
1320
1300
1280
1260
1240
1220

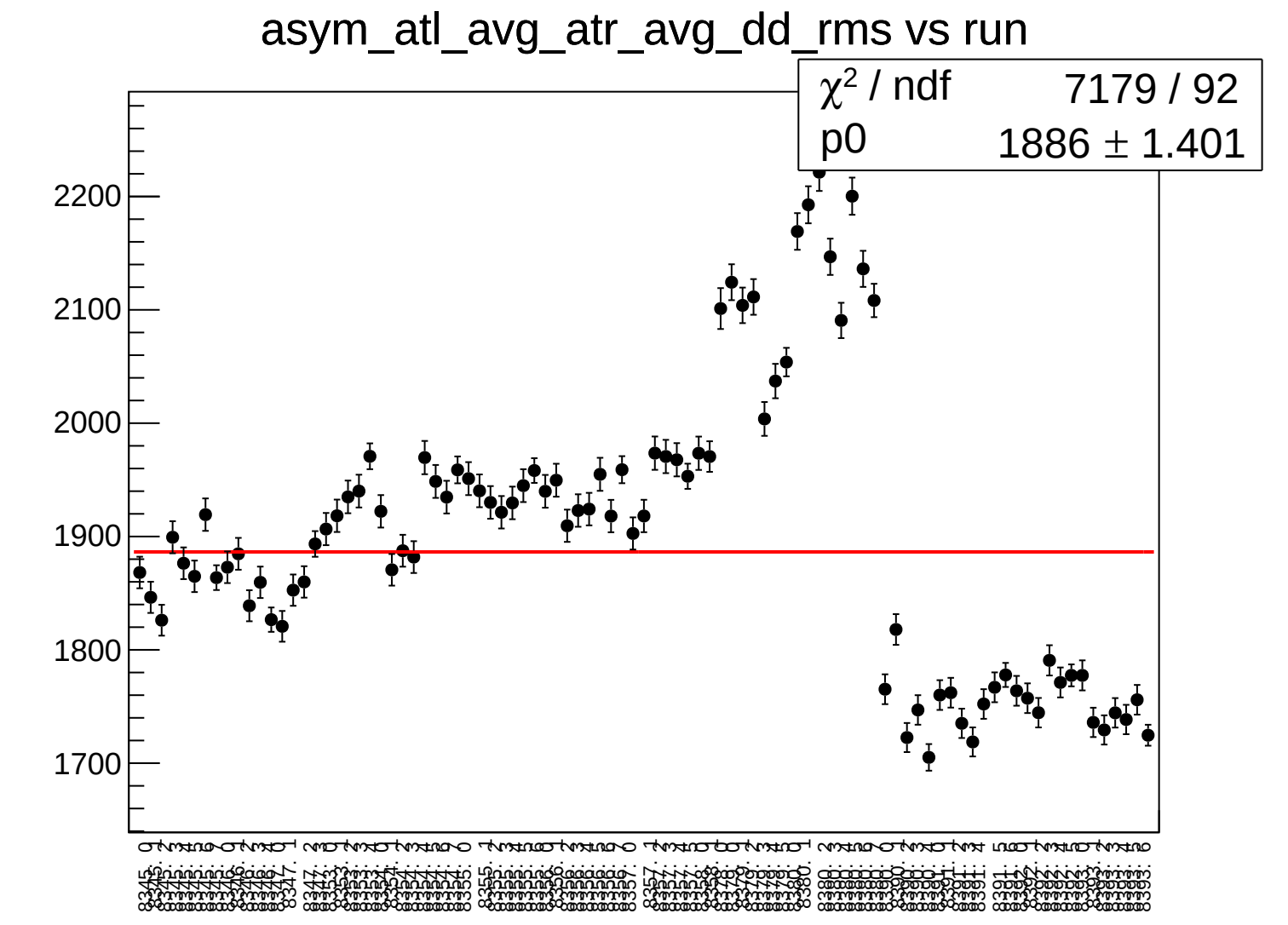

asym_atl_avg_atr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 101.6 / 92
p0 −3487 ± 1445
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −164
Std Dev 0
2
1
0
−1
−2
−3

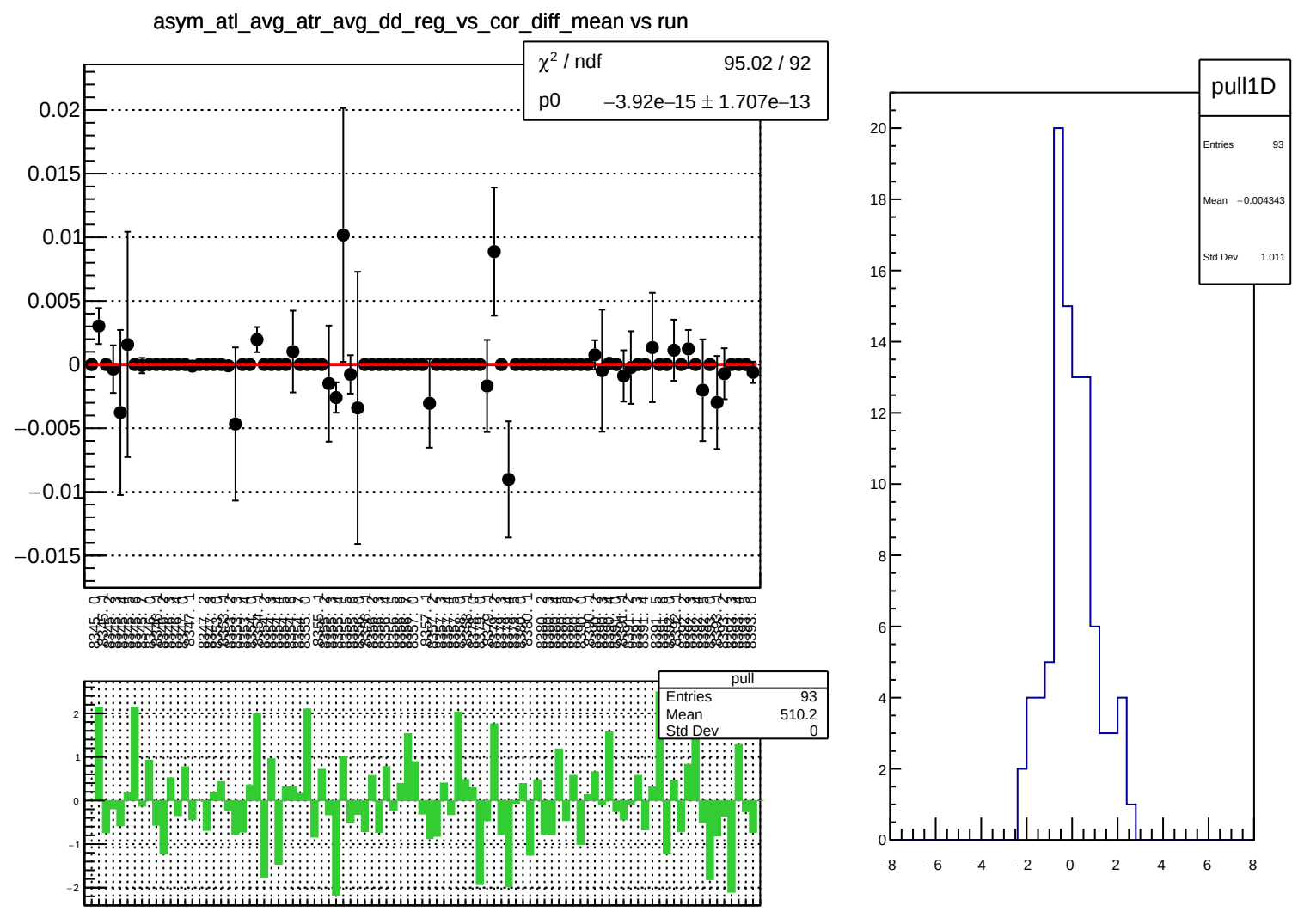

pull1D
Entries 93
Mean 0.02516
Std Dev 1.045
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

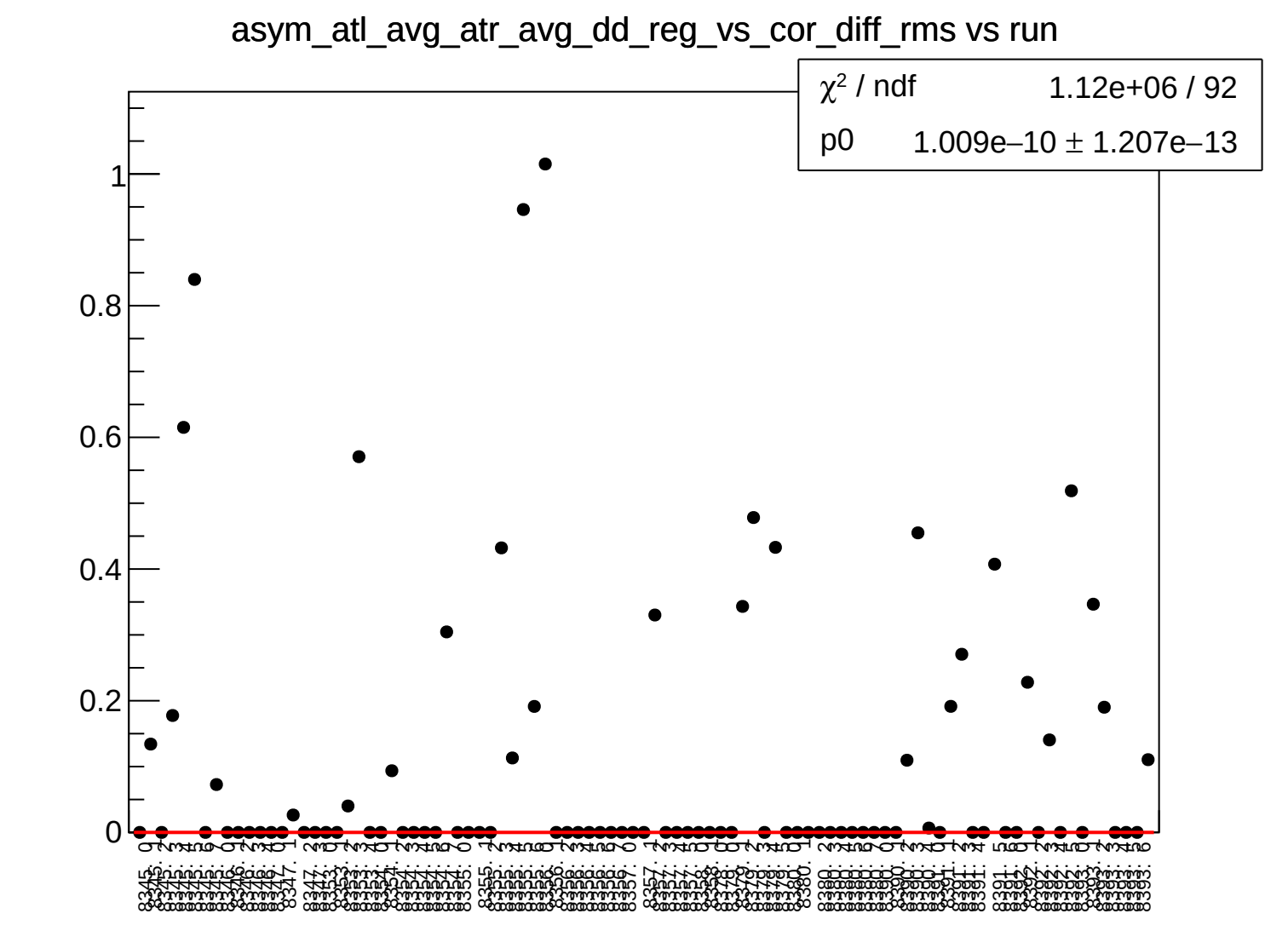

asym_atl_avg_atr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.319e+04 / 92
p0 1373 ± 1.022
1700
1600
1500
1400
1300
1200

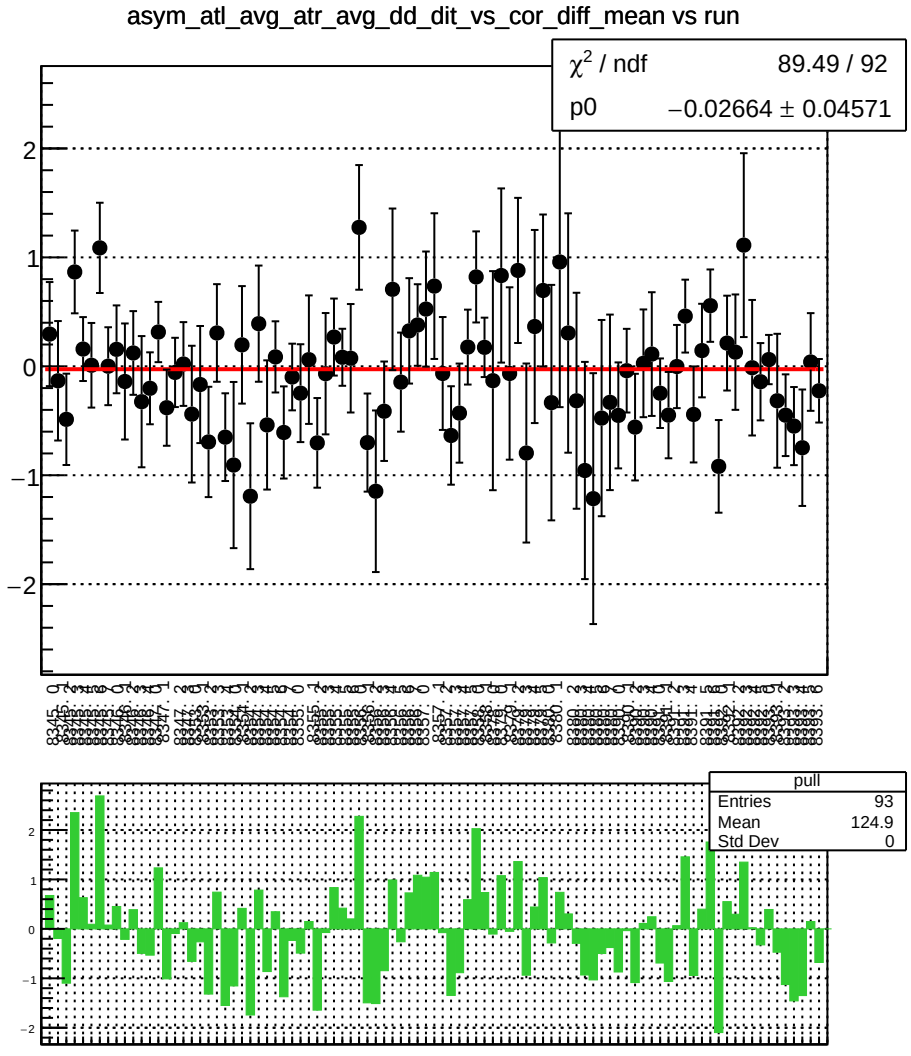

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 89.01 / 92
p0 1077 ± 1982
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −241.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

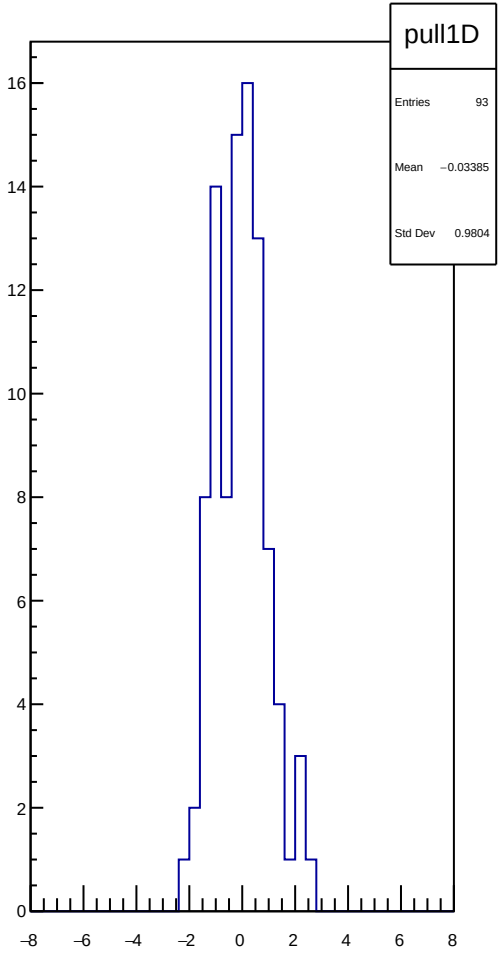

pull1D
Entries 93
Mean −0.01129
Std Dev 0.9782
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

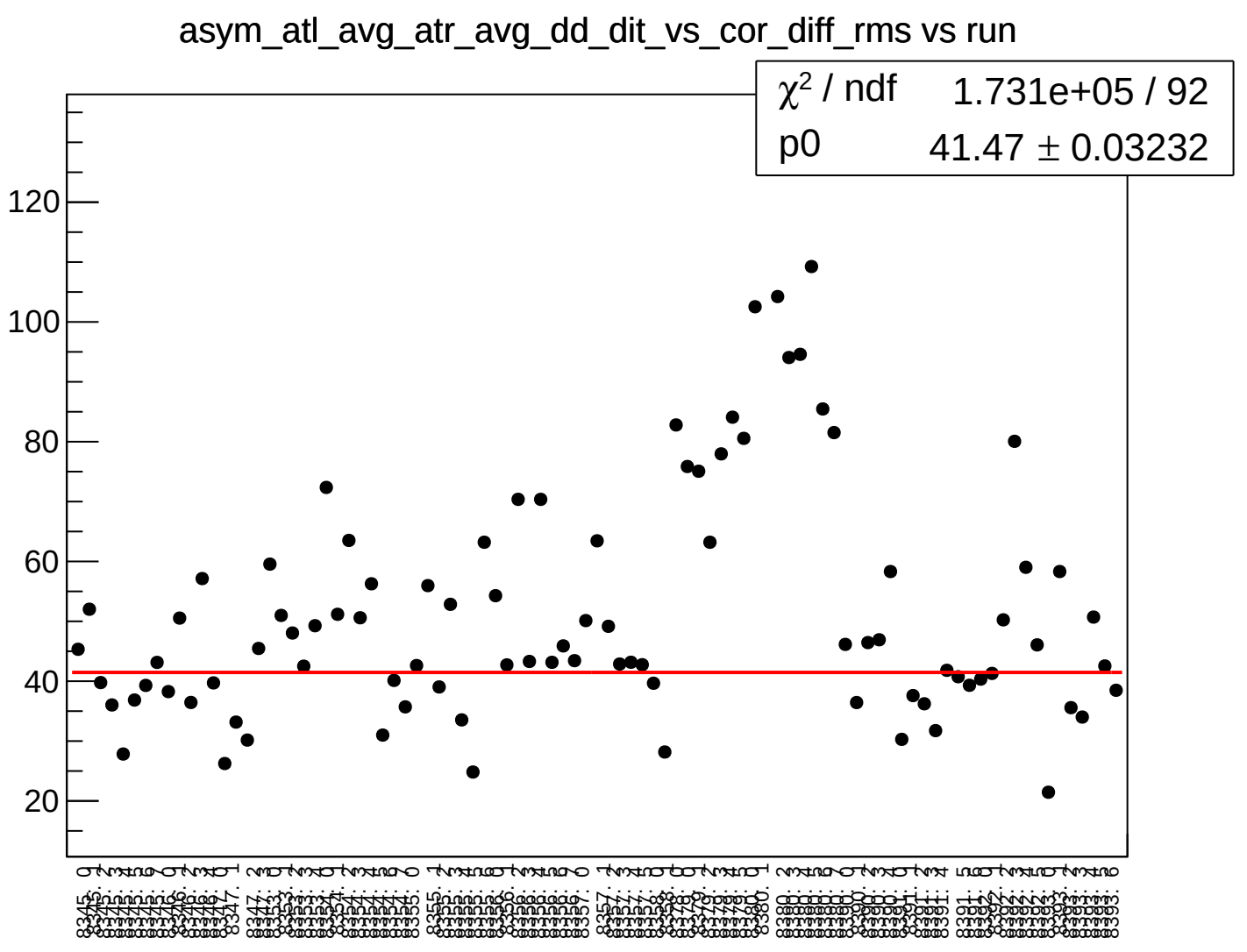

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 7179 / 92
p0 1886 ± 1.401
2200
2100
2000
1900
1800
1700

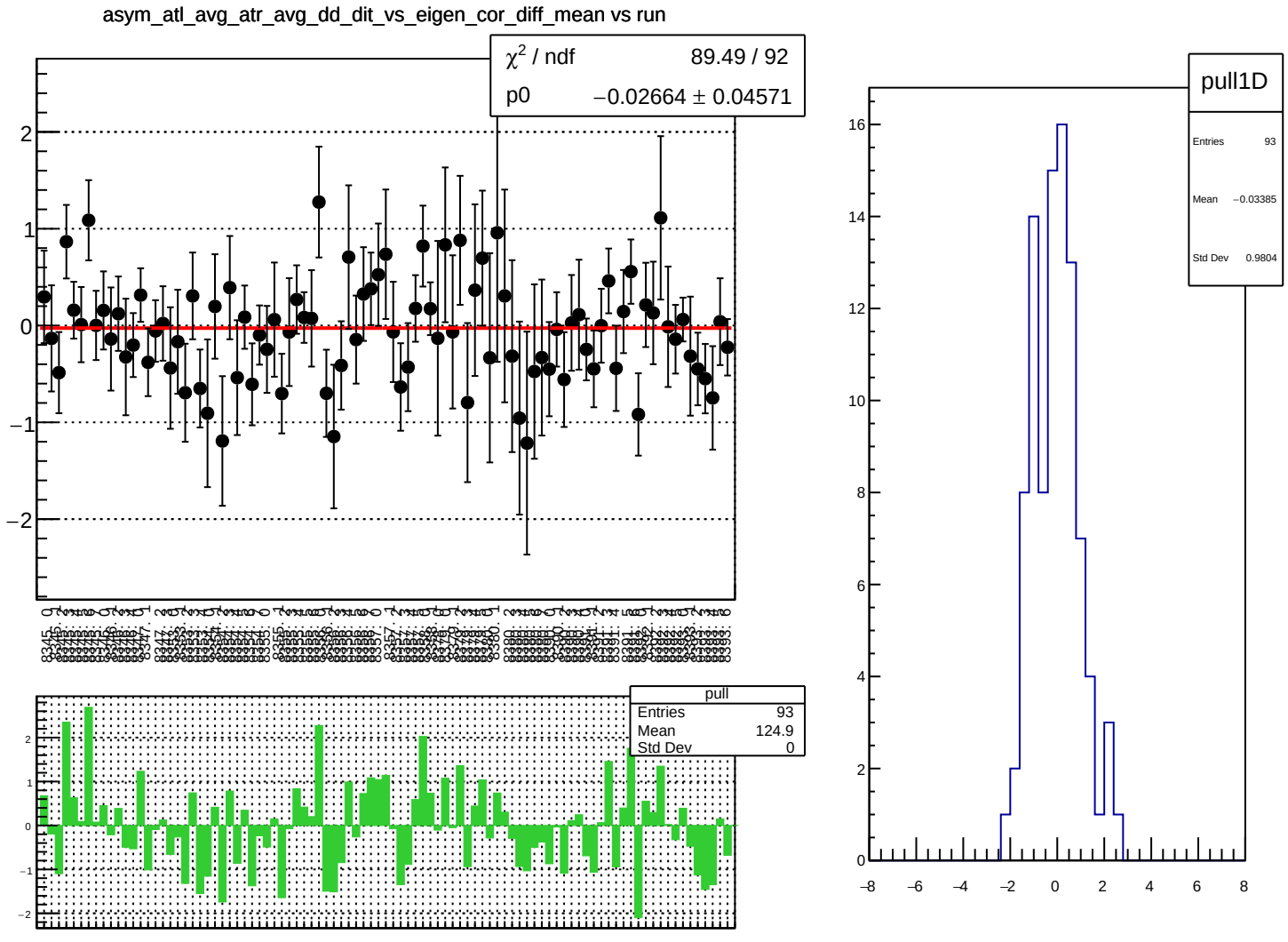

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 95.02 / 92
p0 −3.92e−15 ± 1.707e−13
pull
Entries 93
Mean 510.2
Std Dev 0
pull1D
Entries 93
Mean −0.004343
Std Dev 1.011

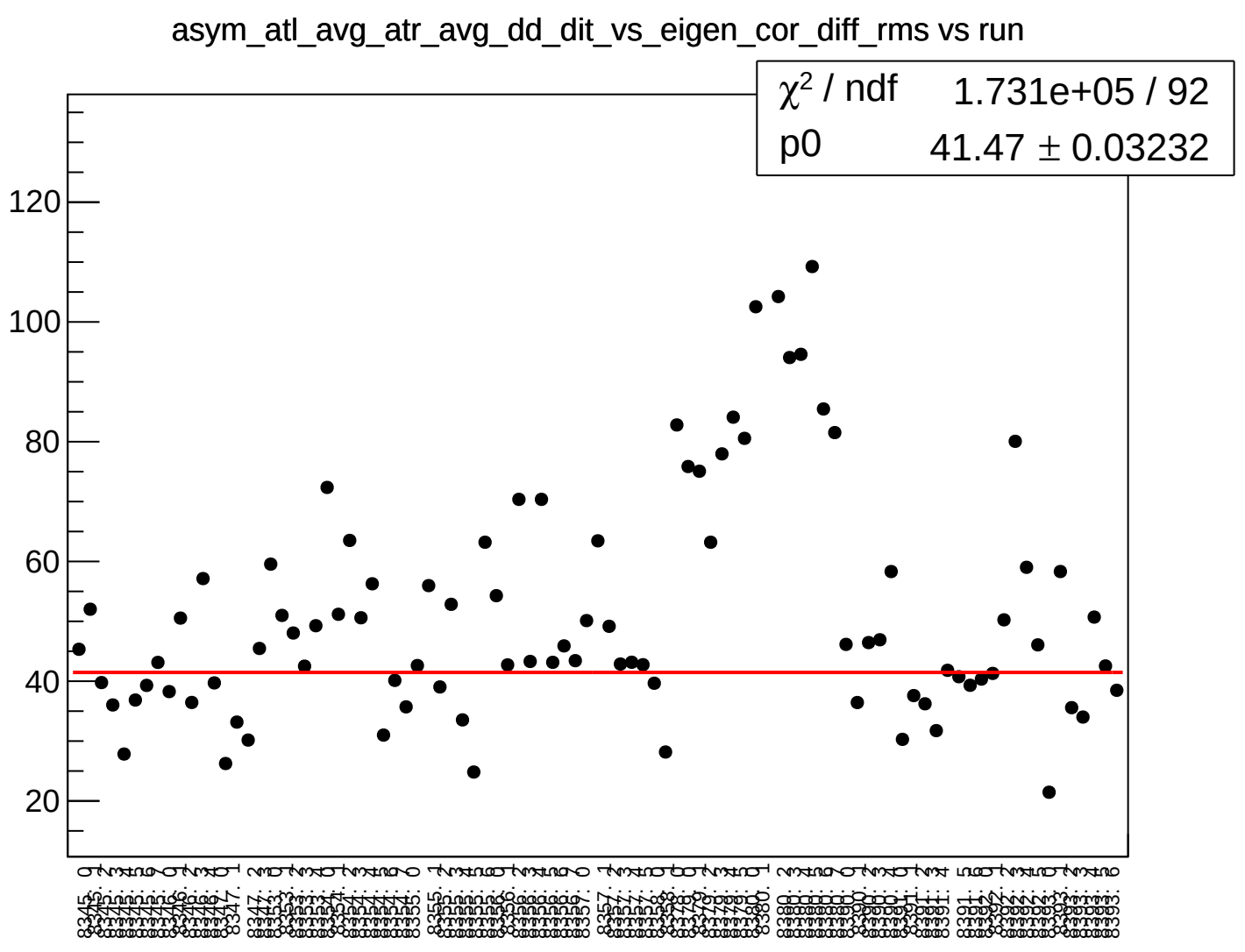

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.12e+06 / 92
p0 1.009e−10 ± 1.207e−13
1
0.8
0.6
0.4
0.2
0

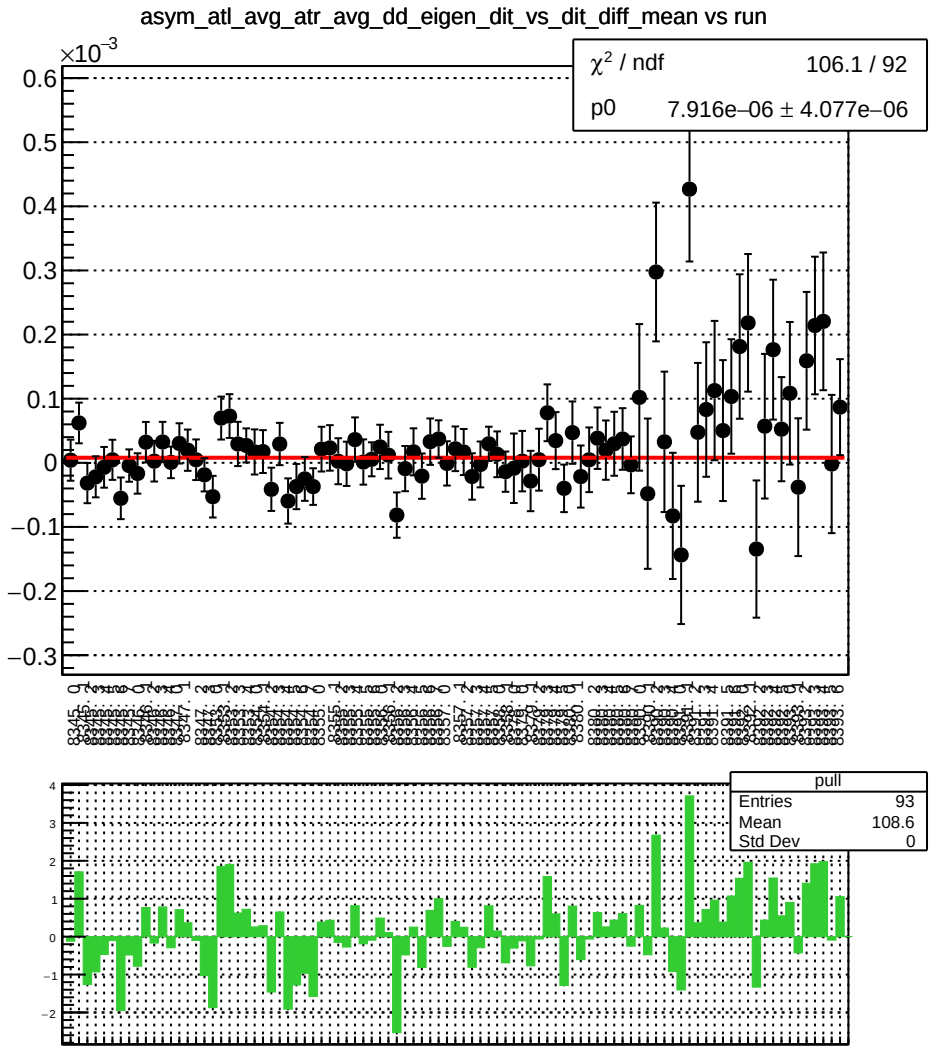

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 89.49 / 92
p0 −0.02664 ± 0.04571
pull
Entries 93
Mean 124.9
Std Dev 0

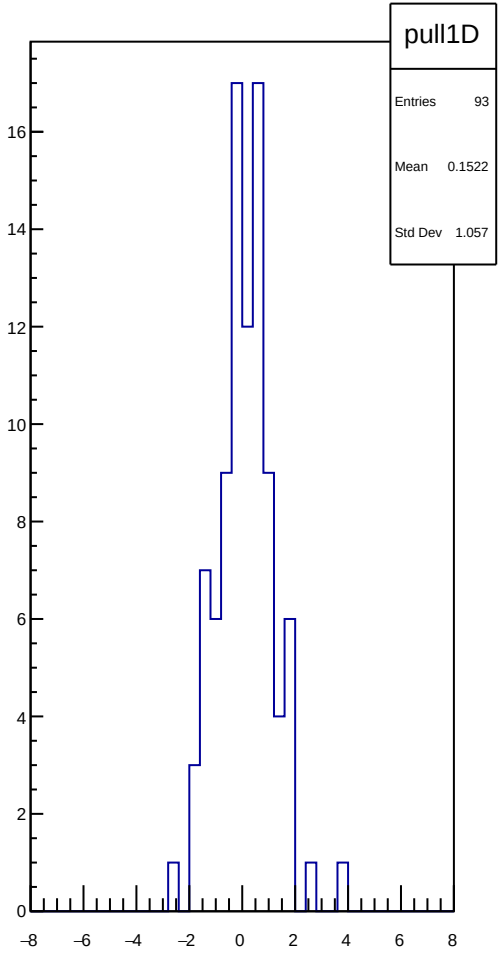

pull1D
Entries 93
Mean −0.03385
Std Dev 0.9804

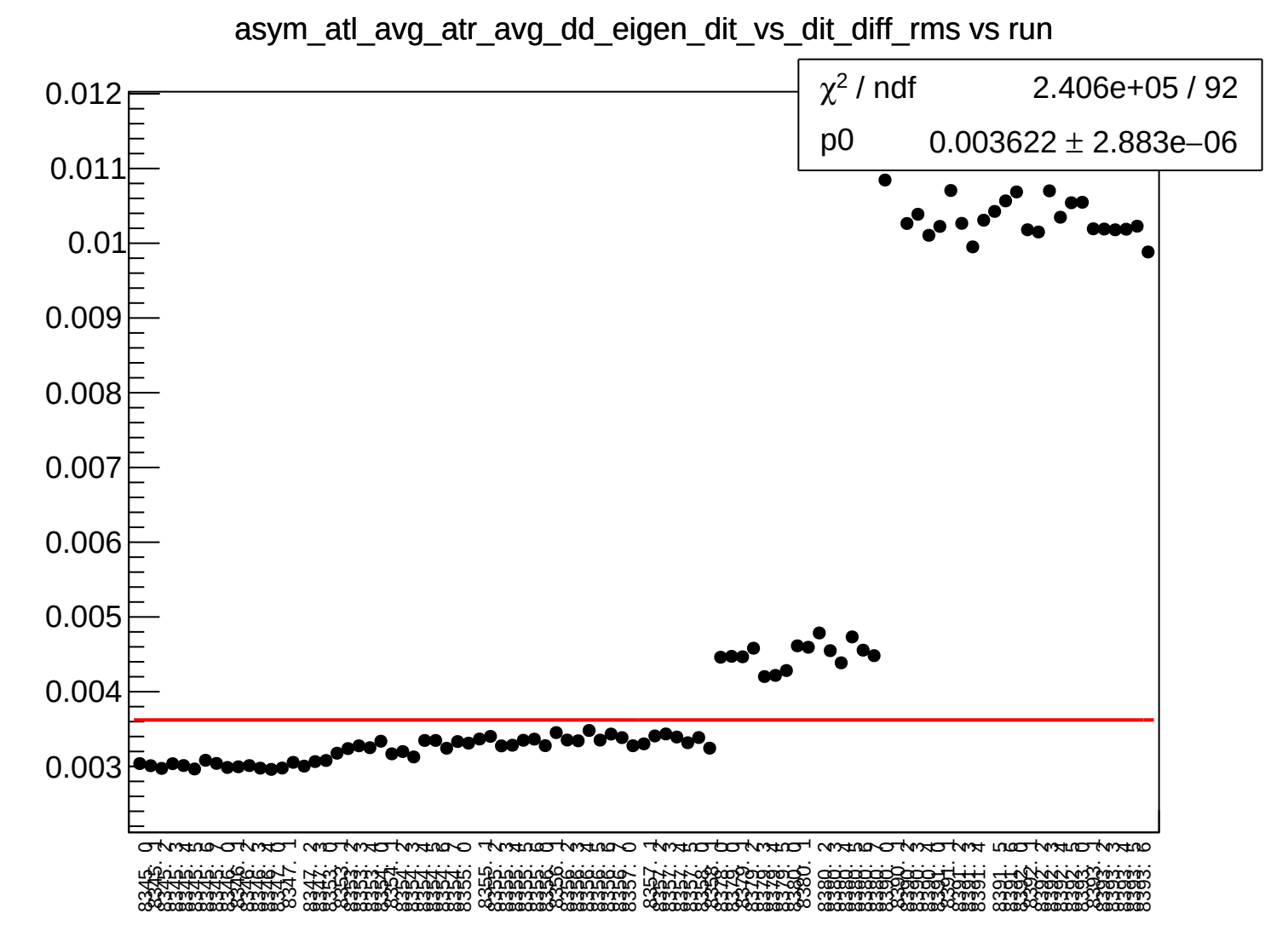

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.731e+05 / 92
p0 41.47 ± 0.03232
120
100
80
60
40
20

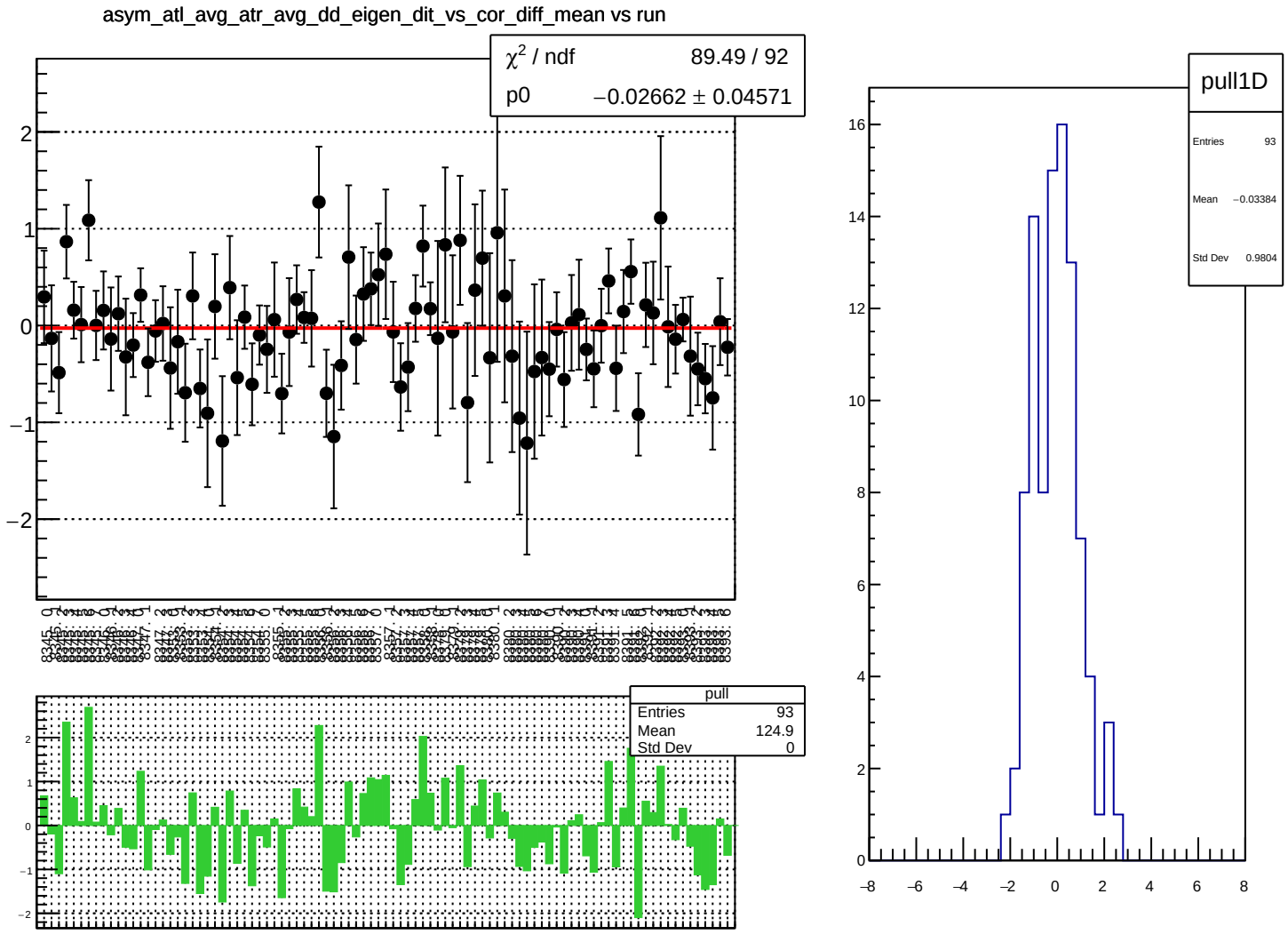

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.49 / 92
p0 −0.02664 ± 0.04571
pull
Entries 93
Mean 124.9
Std Dev 0
pull1D
Entries 93
Mean −0.03385
Std Dev 0.9804

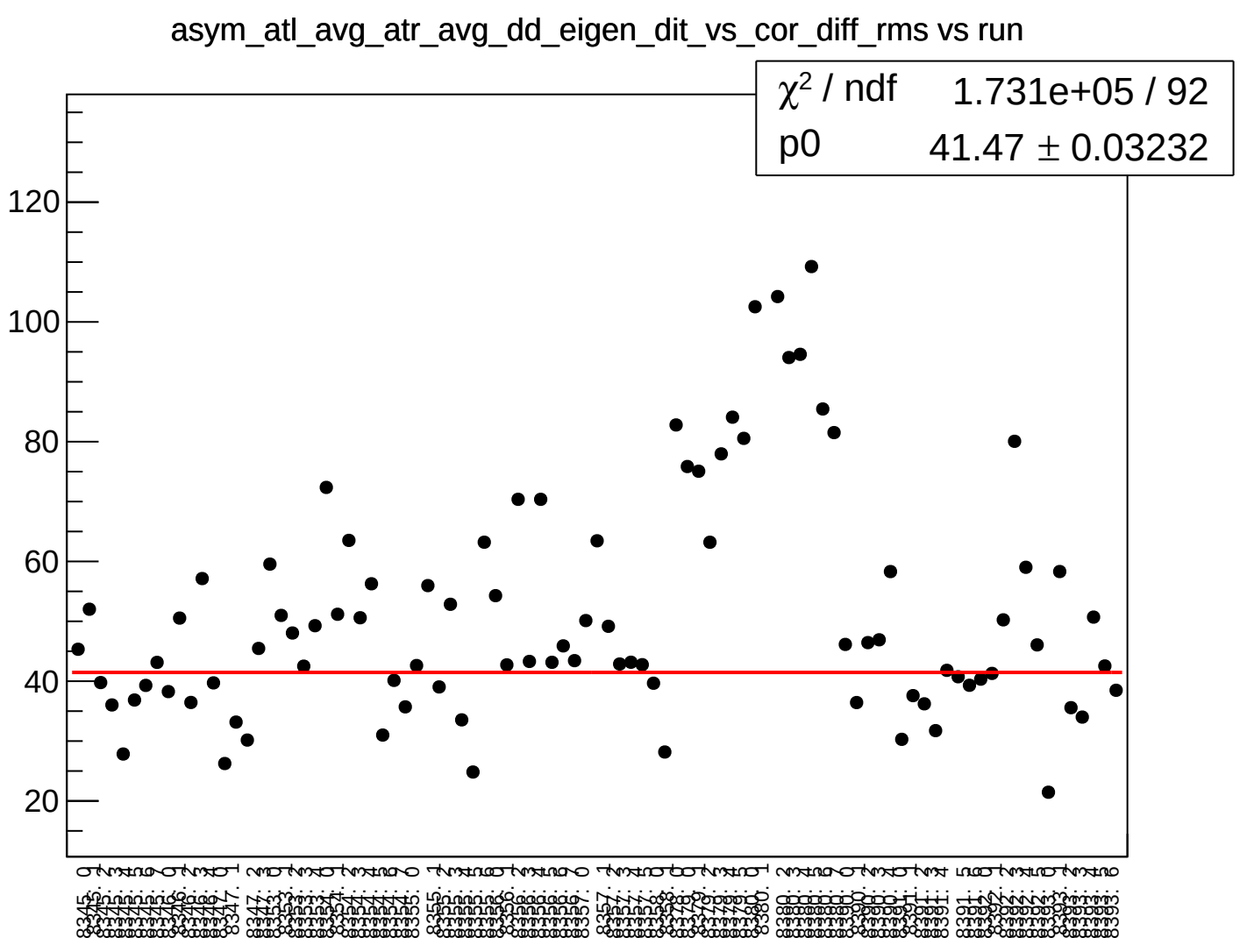

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.731e+05 / 92
p0 41.47 ± 0.03232
120
100
80
60
40
20

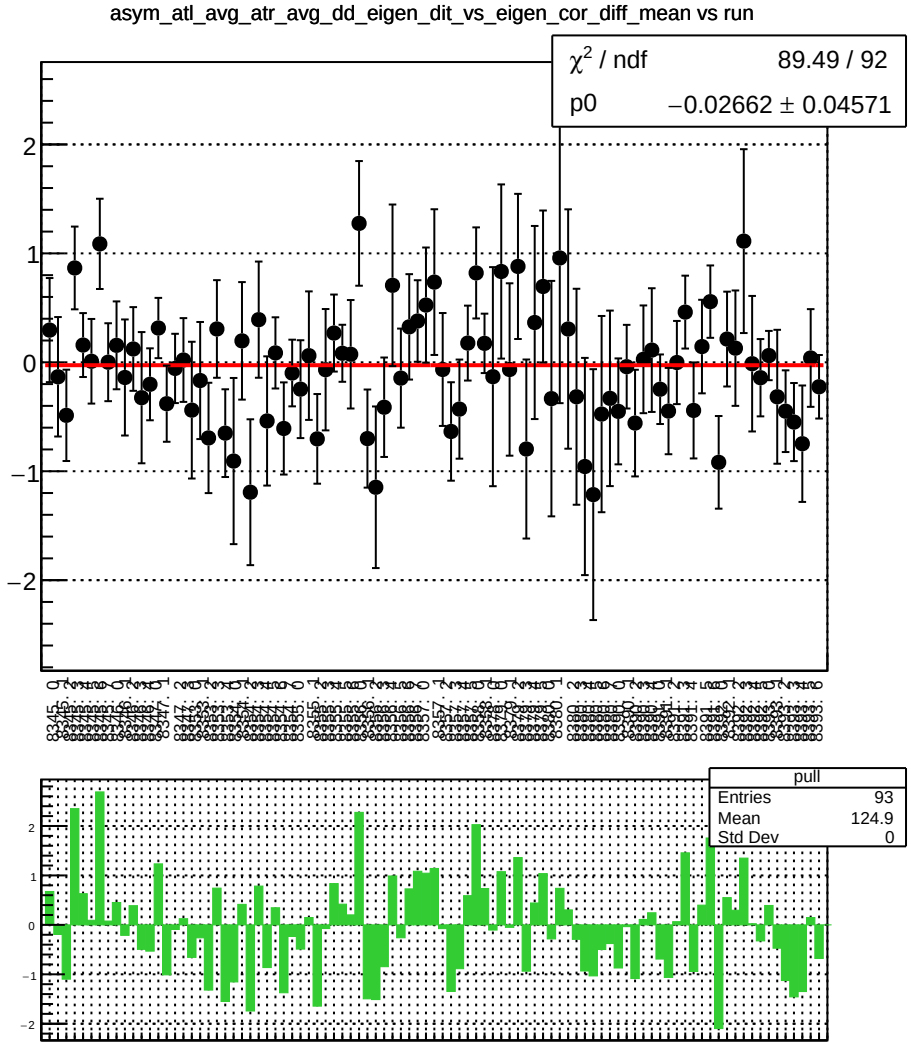

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 106.1 / 92
p0 7.916e−06 ± 4.077e−06
pull
Entries 93
Mean 108.6
Std Dev 0

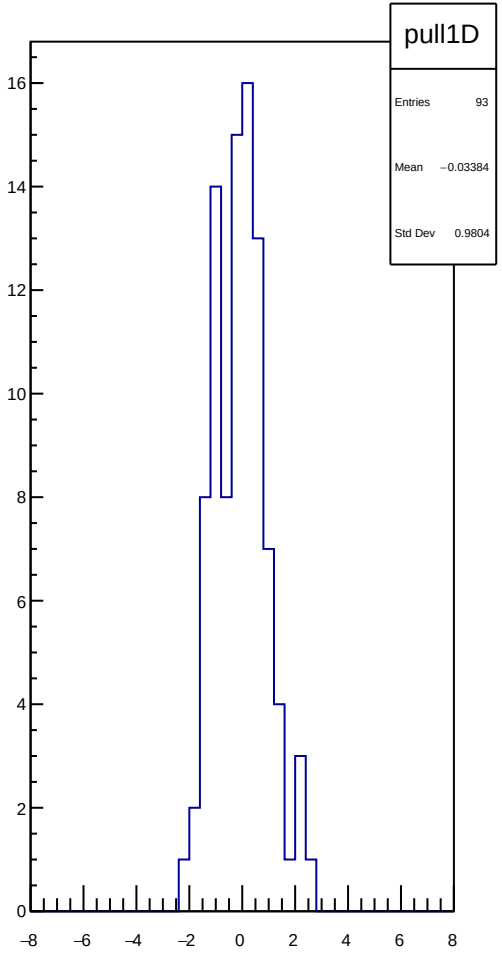

pull1D
Entries 93
Mean 0.1522
Std Dev 1.057

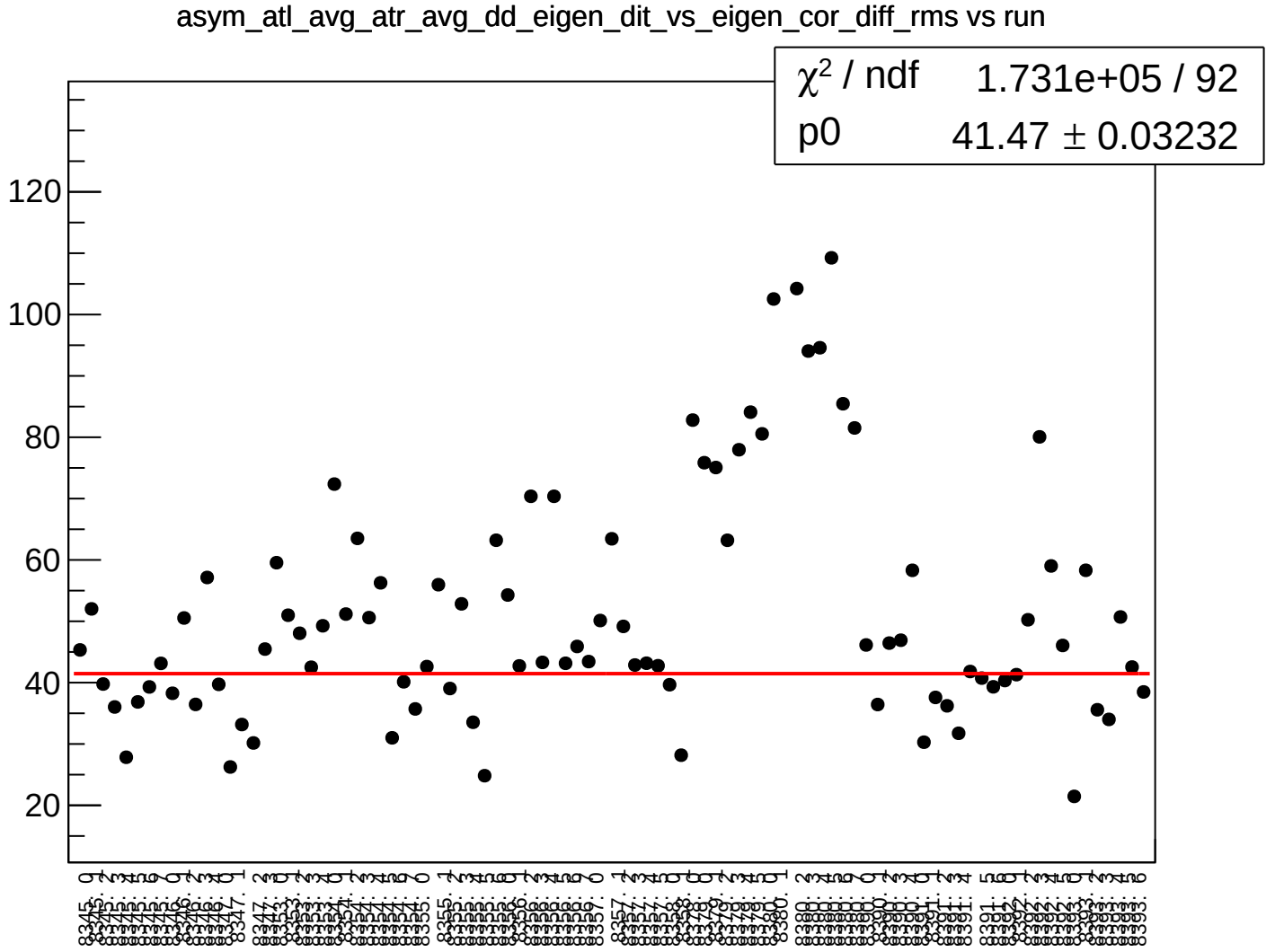

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.406e+05 / 92
p0 0.003622 ± 2.883e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

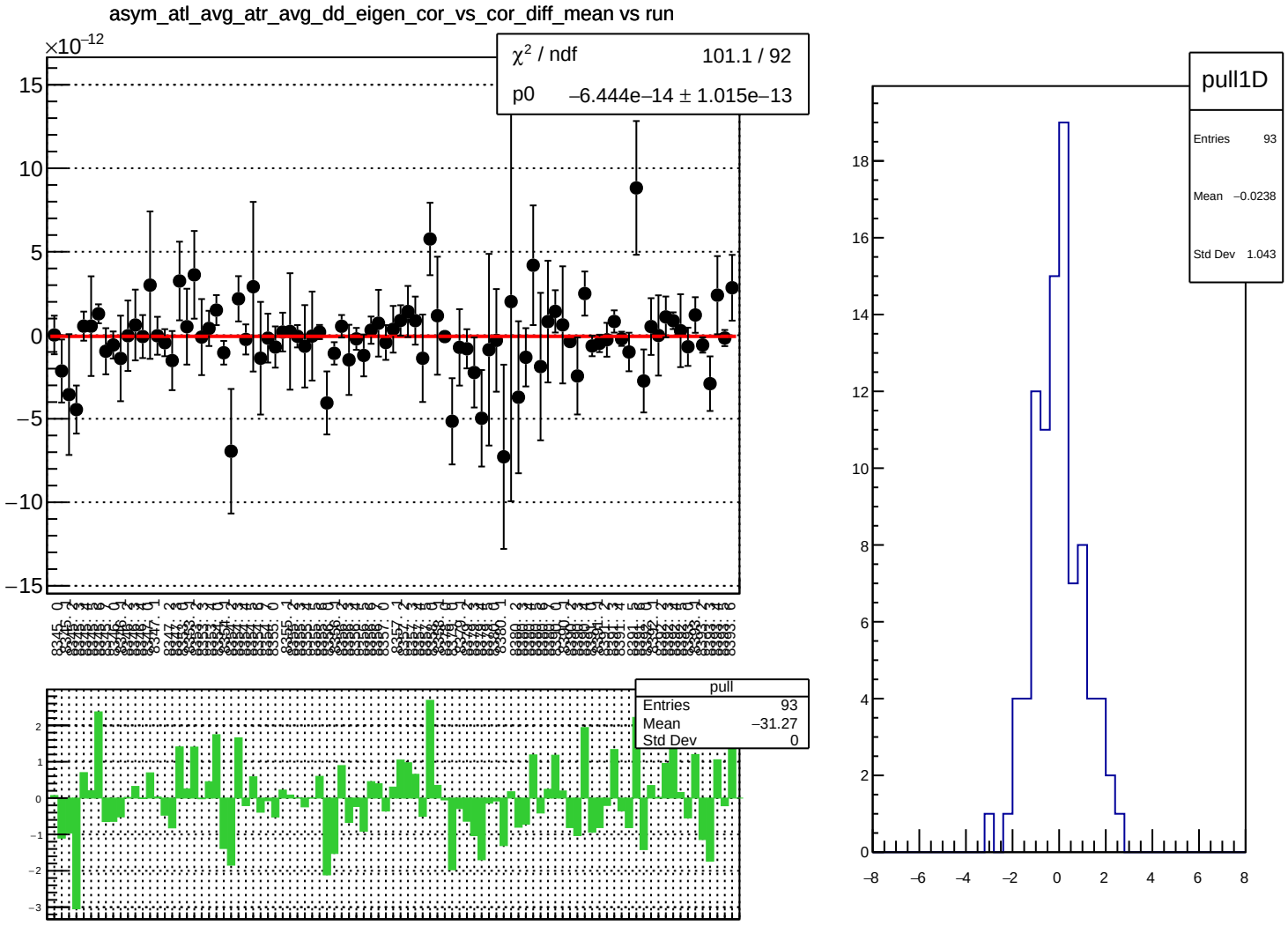

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ^2 / ndf 89.49 / 92
p0 −0.02662 ± 0.04571
pull
Entries 93
Mean 124.9
Std Dev 0
pull1D
Entries 93
Mean −0.03384
Std Dev 0.9804

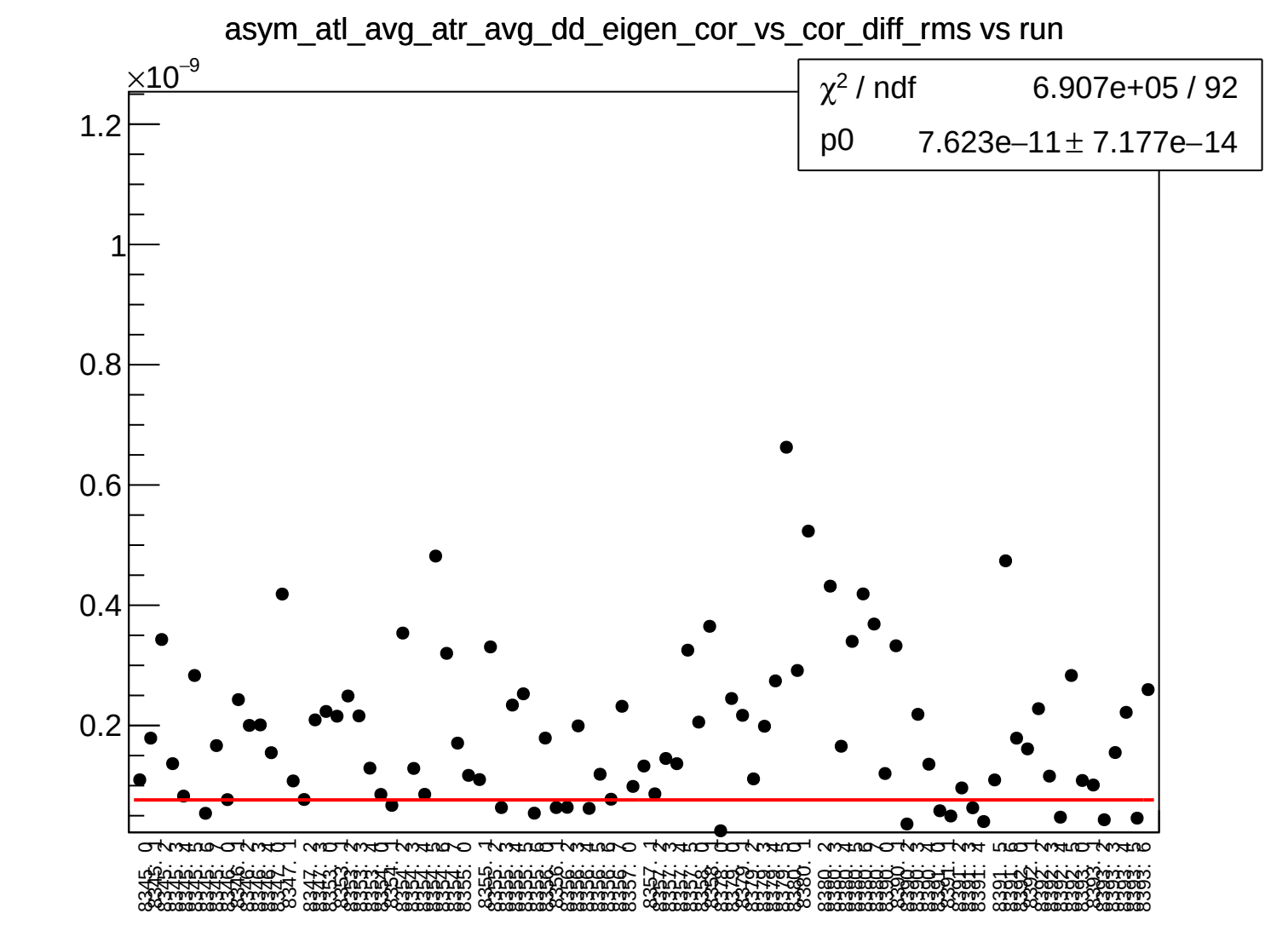

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.731e+05 / 92
p0 41.47 ± 0.03232
120
100
80
60
40
20

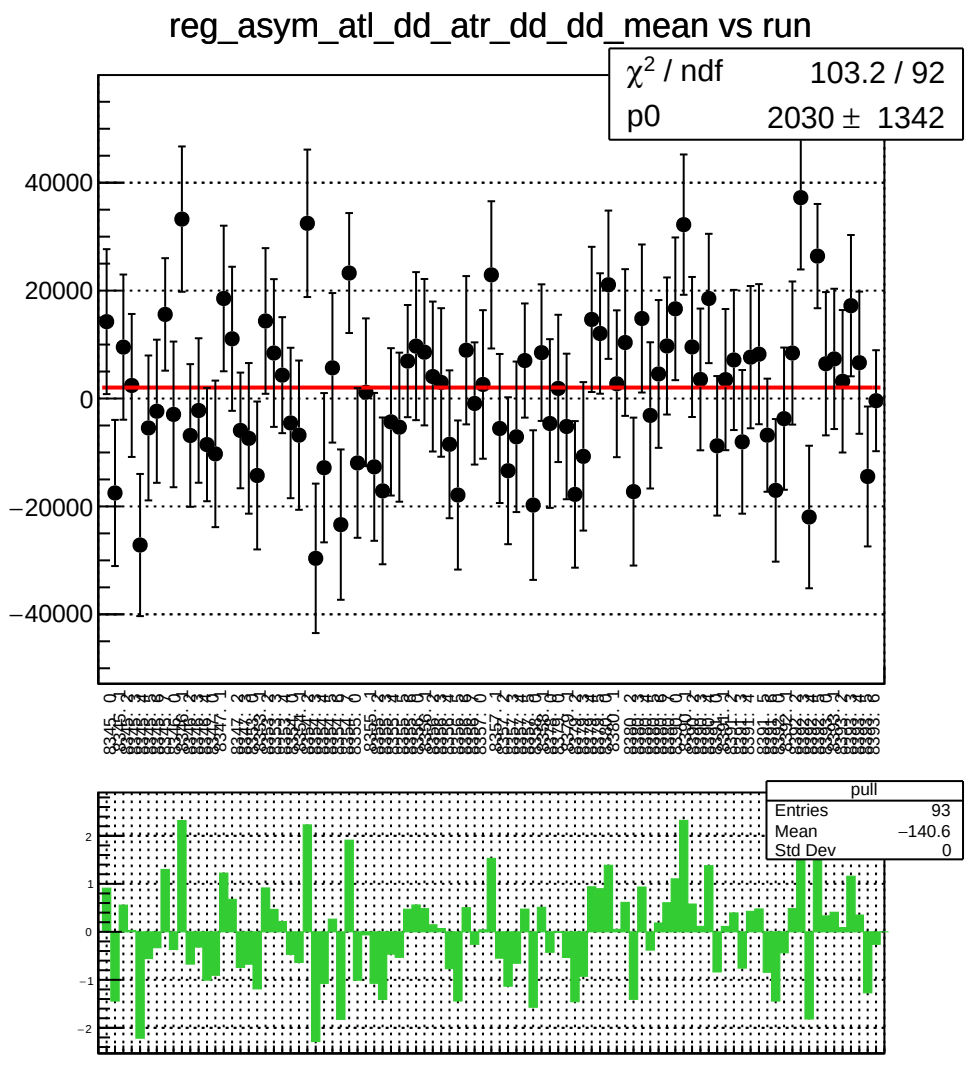

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.49 / 92
p0 −0.02662 ± 0.04571
pull
Entries 93
Mean 124.9
Std Dev 0

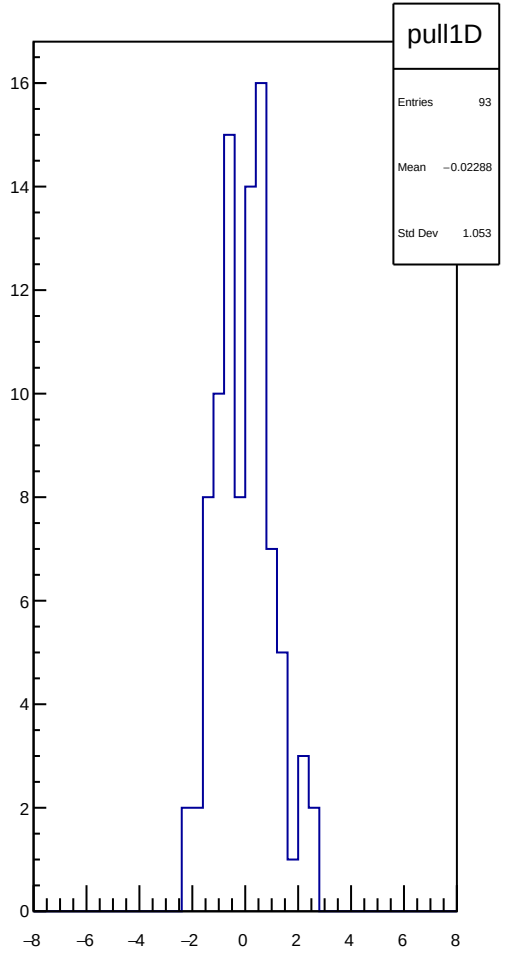

pull1D
Entries 93
Mean −0.03384
Std Dev 0.9804

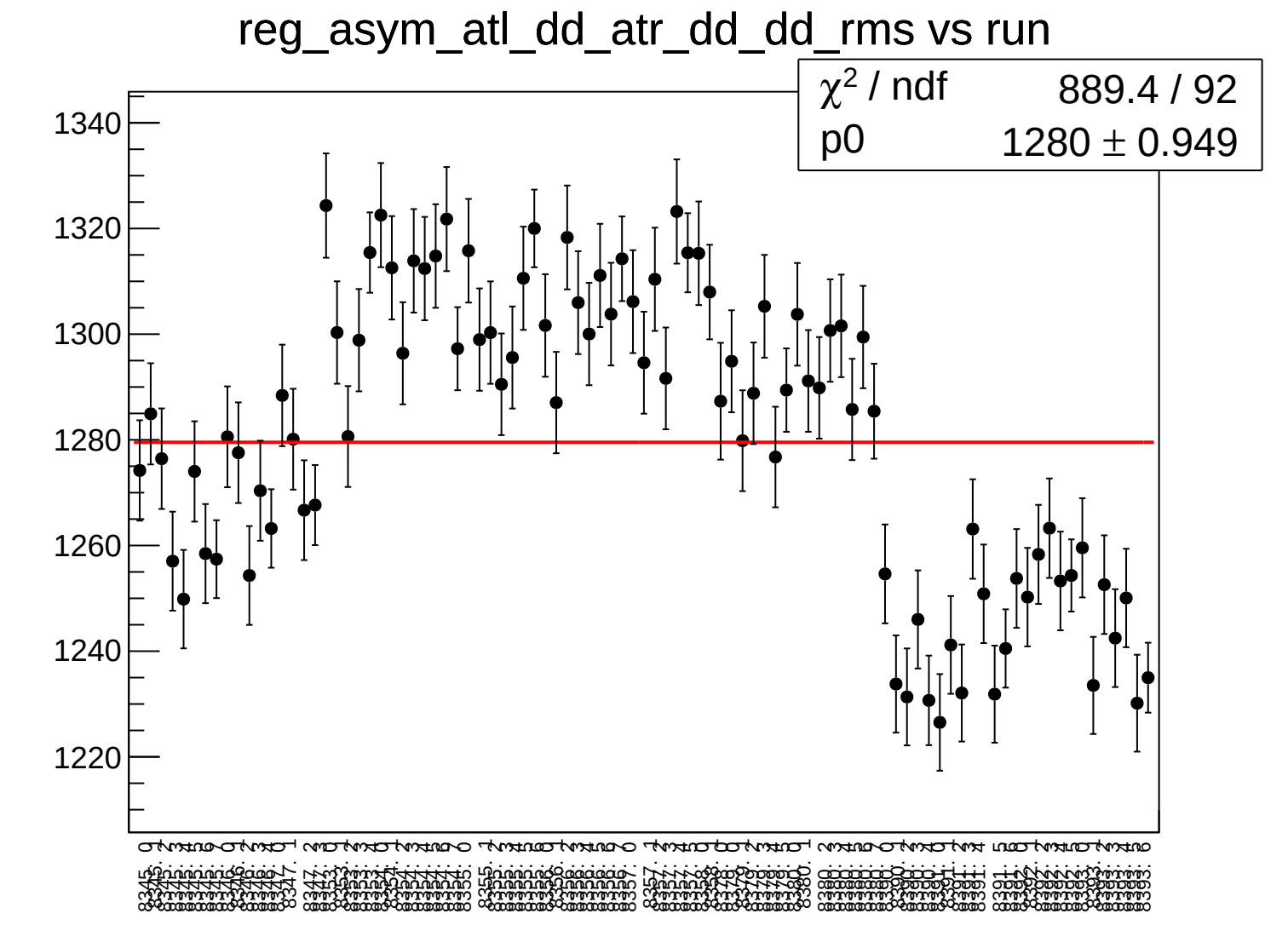

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.731e+05 / 92
p0 41.47 ± 0.03232
120
100
80
60
40
20

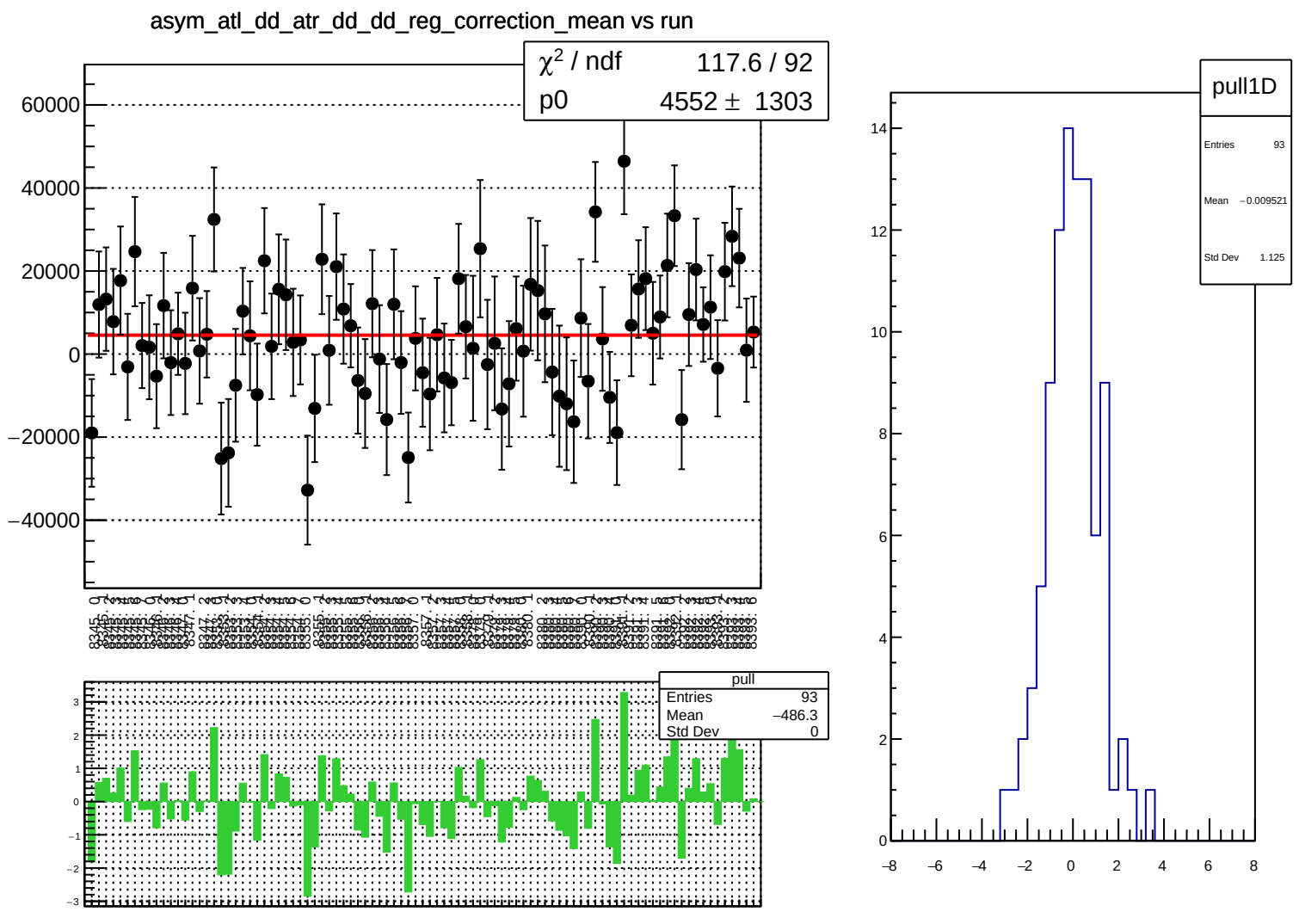

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 101.1 / 92
p0 −6.444e−14 ± 1.015e−13
pull
Entries 93
Mean −31.27
Std Dev 0
pull1D
Entries 93
Mean −0.0238
Std Dev 1.043

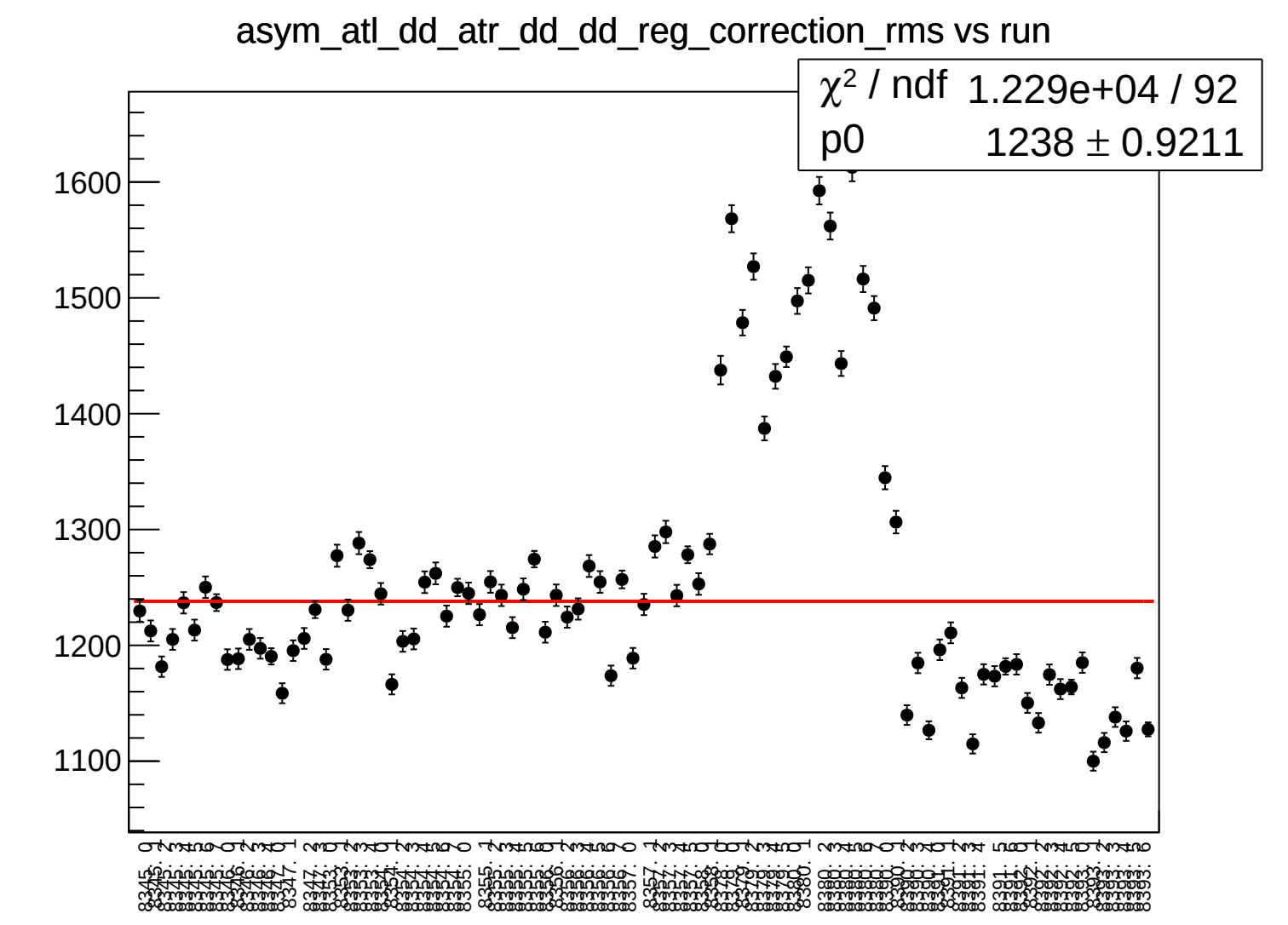

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.907e+05 / 92
p0 7.623e−11 ± 7.177e−14
1.2
1
0.8
0.6
0.4
0.2

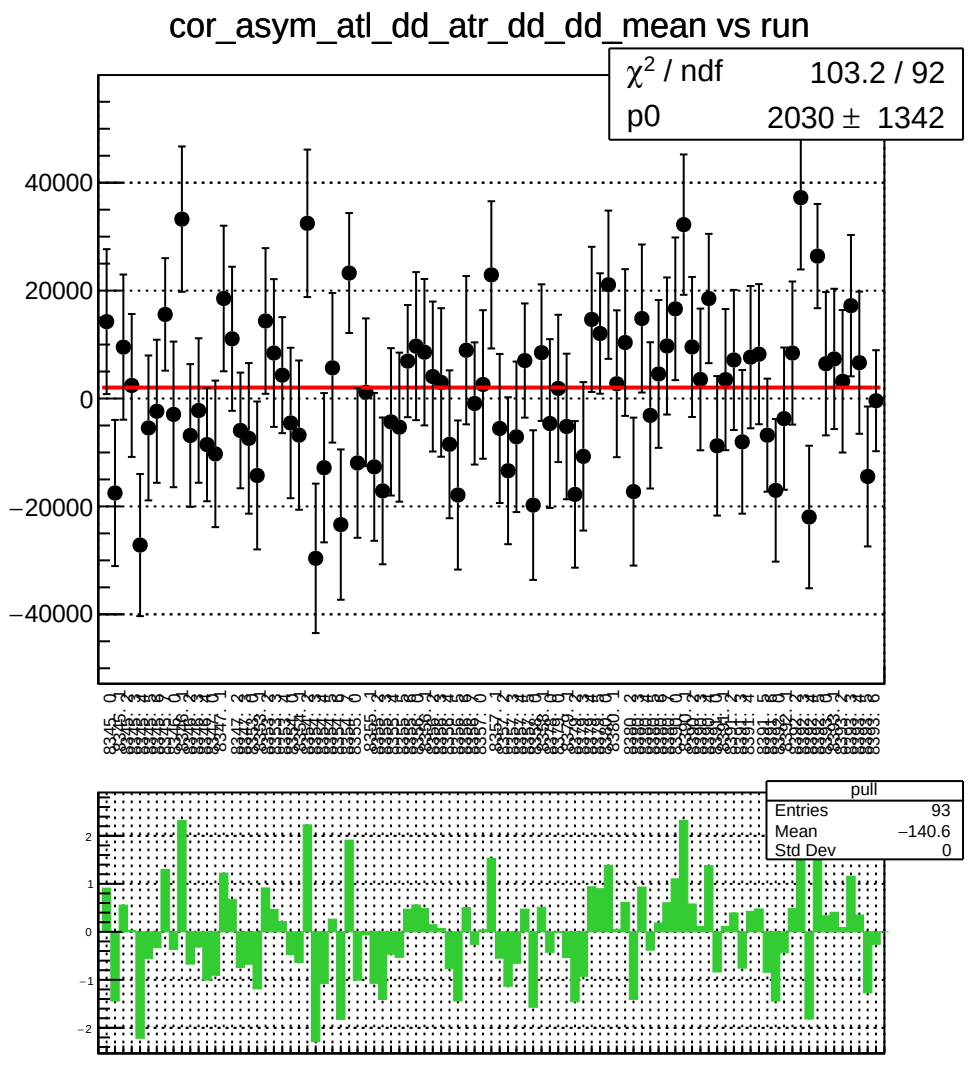

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 103.2 / 92
p0 2030 ± 1342
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −140.6
Std Dev 0
2
1
0
−1
−2

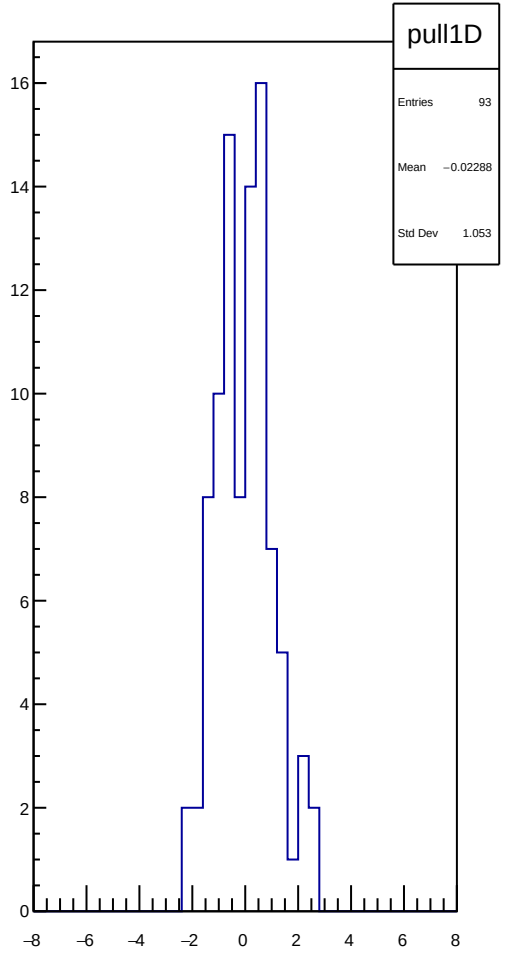

pull1D
Entries 93
Mean −0.02288
Std Dev 1.053
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

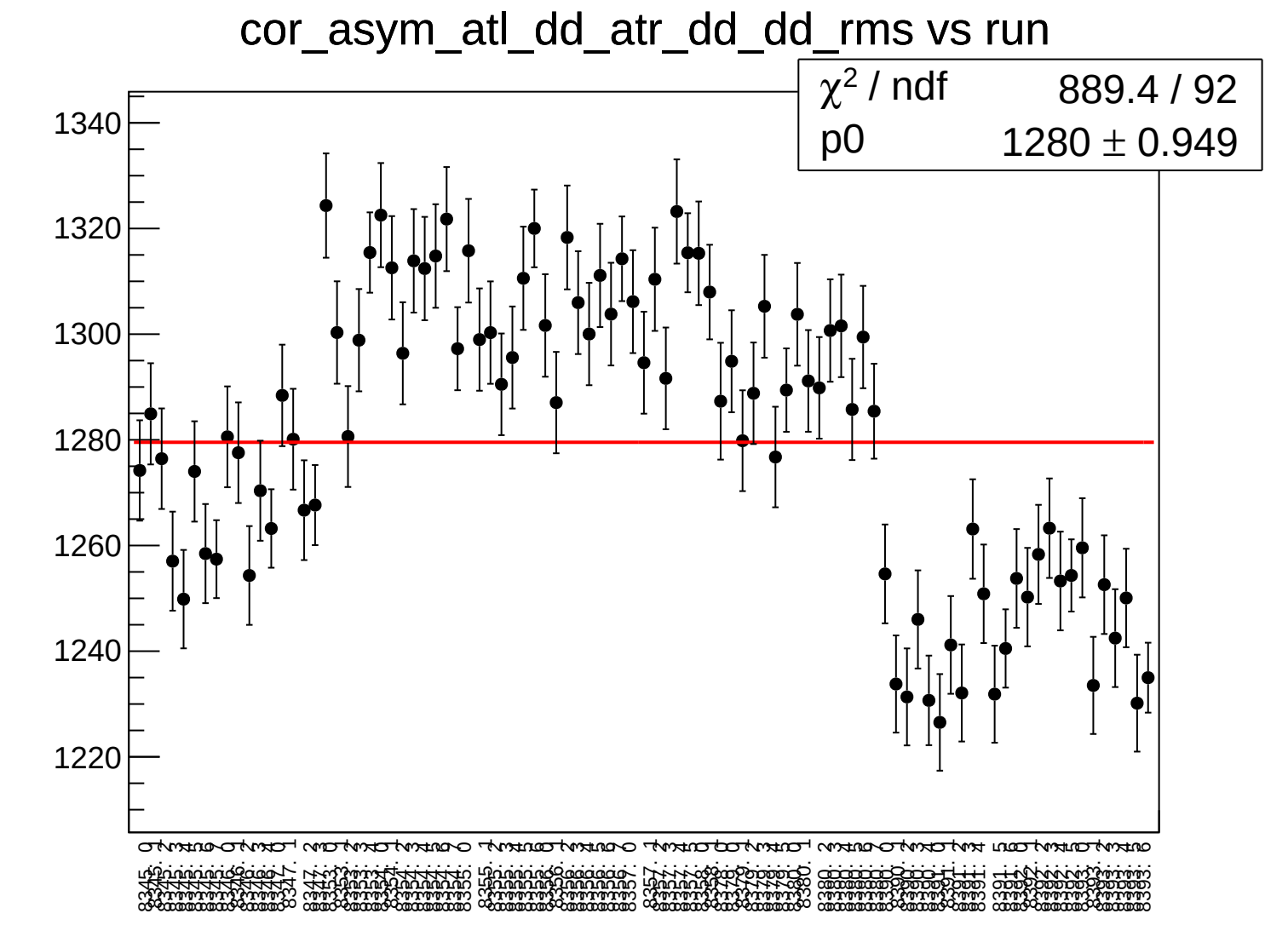

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 889.4 / 92
p0 1280 ± 0.949
1340
1320
1300
1280
1260
1240
1220

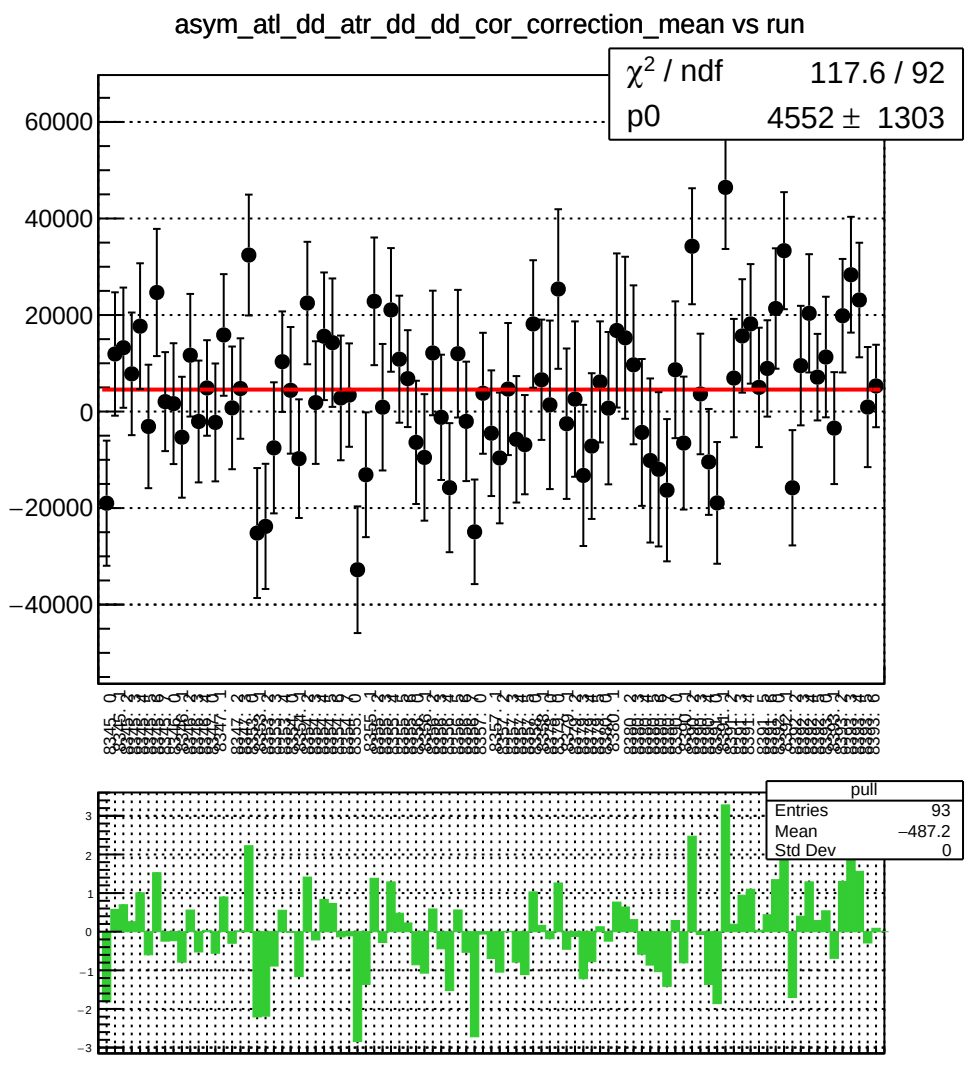

asym_atl_dd_atr_dd_dd_reg_correction_mean vs run
χ² / ndf 117.6 / 92
p0 4552 ± 1303
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −486.3
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.009521
Std Dev 1.125
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

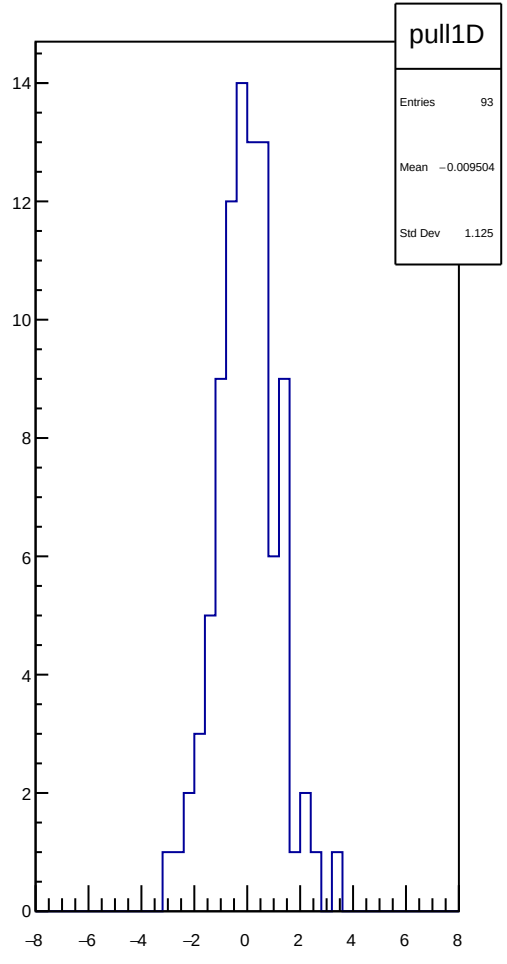

asym_atl_dd_atr_dd_dd_reg_correction_rms vs run
χ² / ndf 1.229e+04 / 92
p0 1238 ± 0.9211
1600
1500
1400
1300
1200
1100

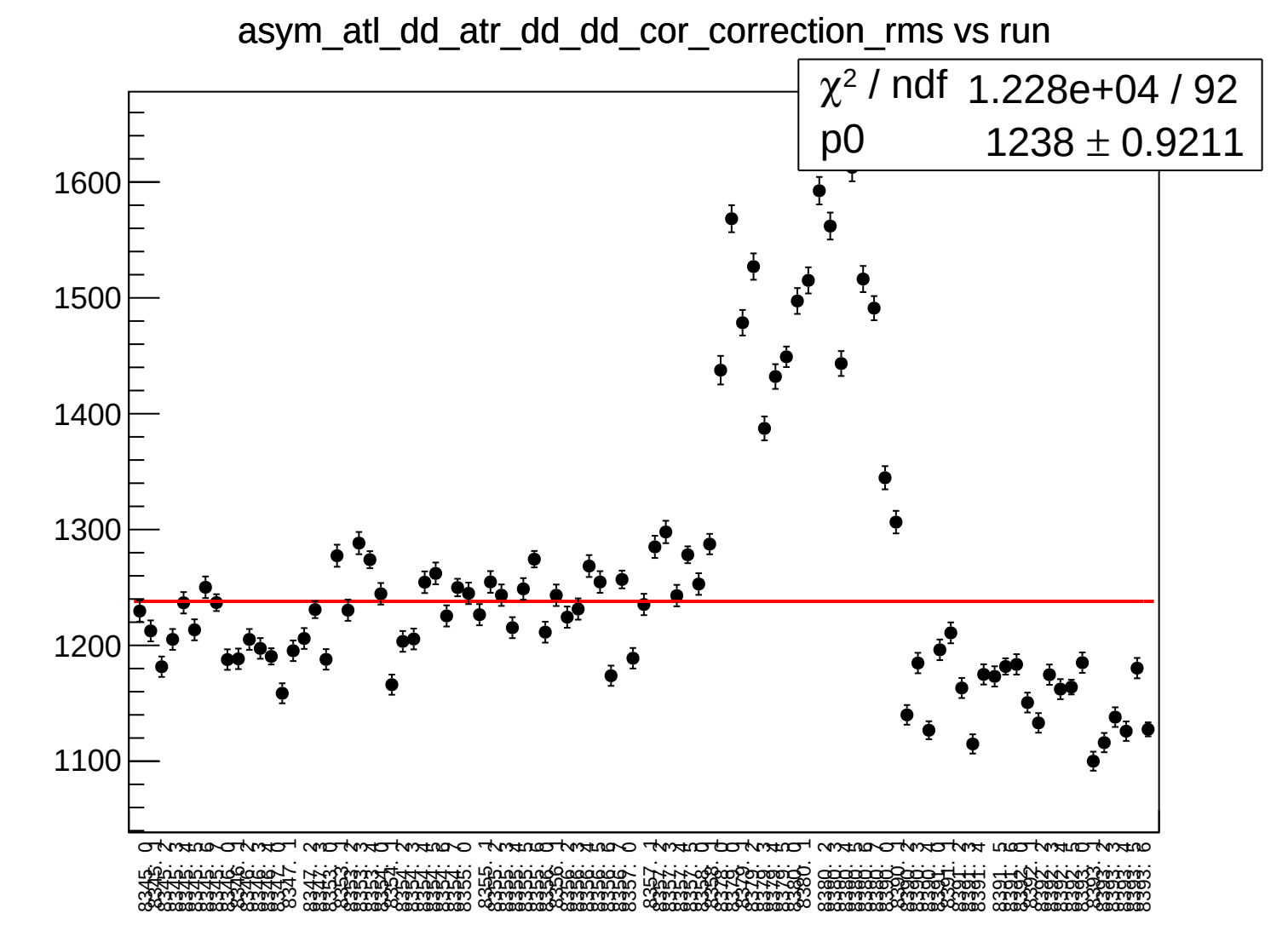

cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 103.2 / 92
p0 2030 ± 1342
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −140.6
Std Dev 0
2
1
0
−1
−2

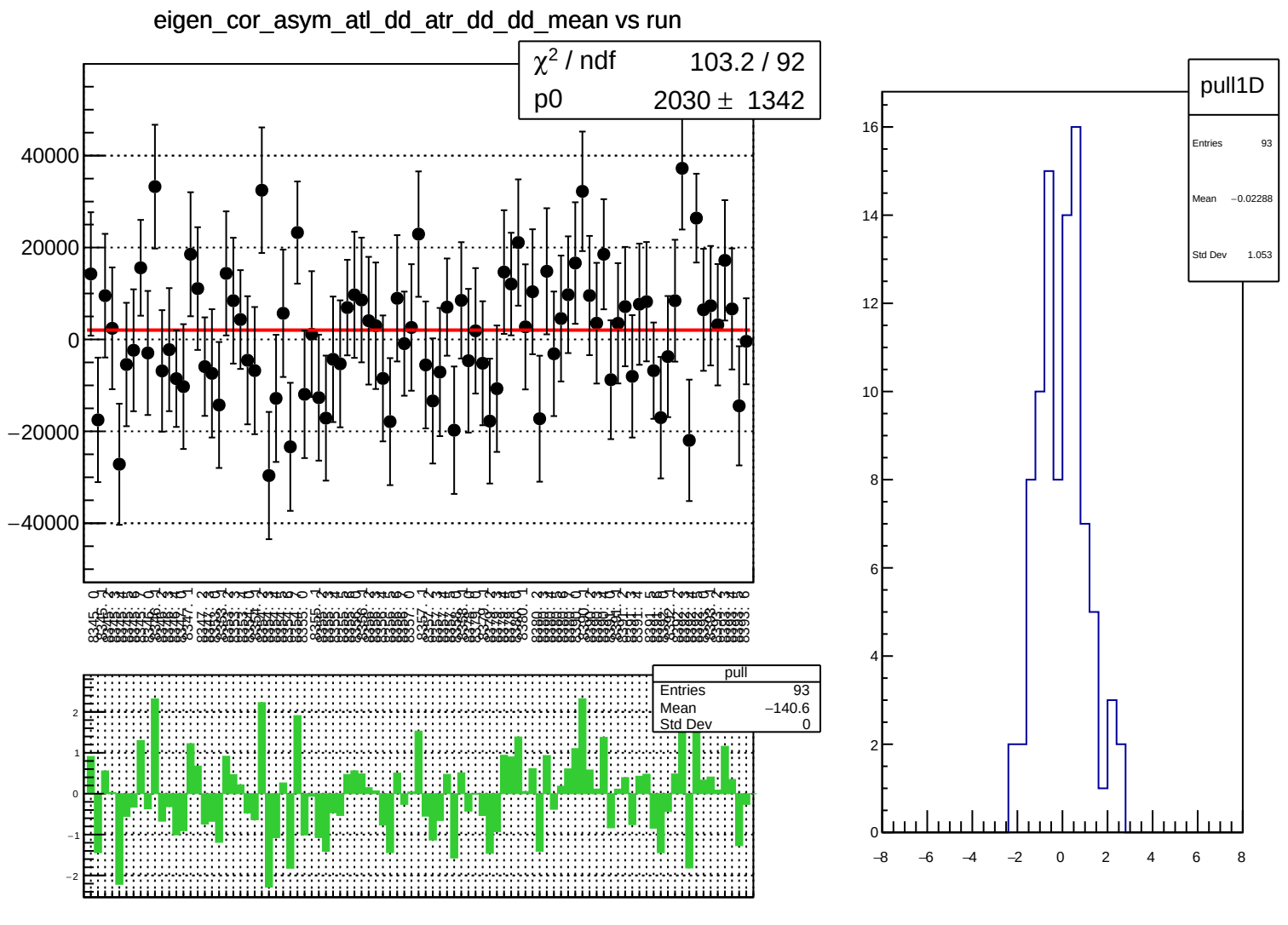

pull1D
Entries 93
Mean −0.02288
Std Dev 1.053
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

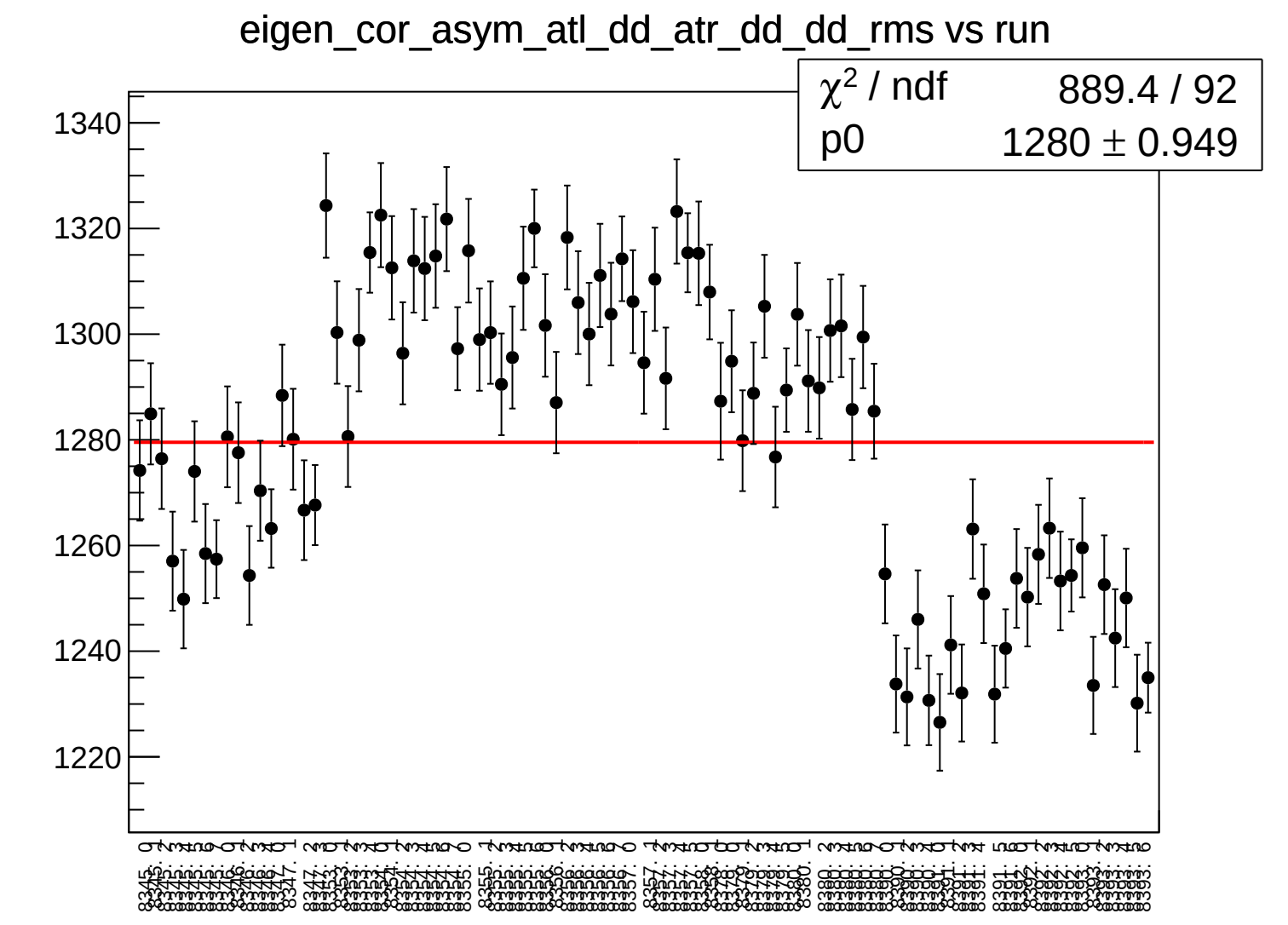

cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 889.4 / 92
p0 1280 ± 0.949
1340
1320
1300
1280
1260
1240
1220

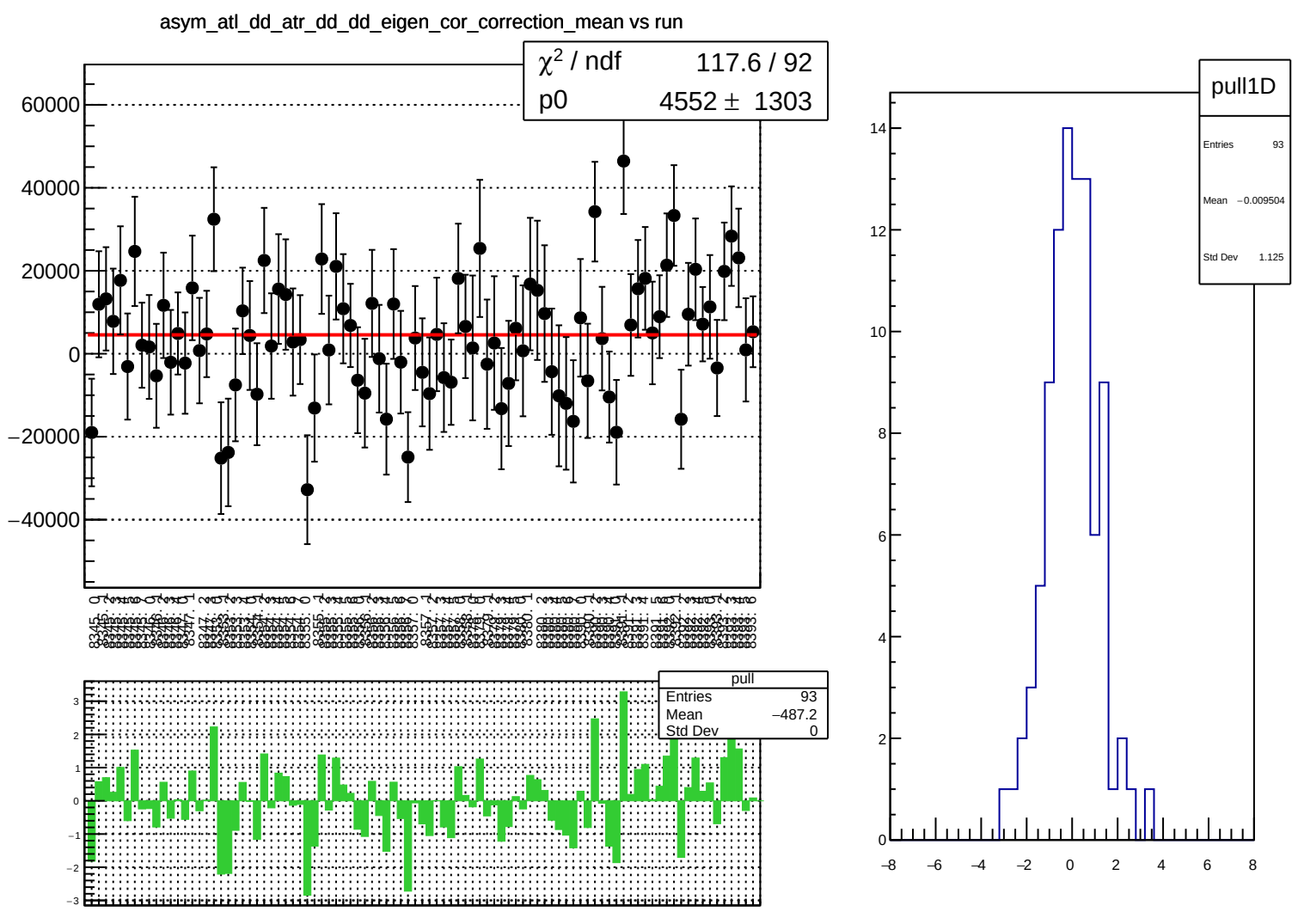

asym_atl_dd_atr_dd_dd_cor_correction_mean vs run
χ² / ndf 117.6 / 92
p0 4552 ± 1303
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −487.2
Std Dev 0
3
2
1
0
−1
−2
−3

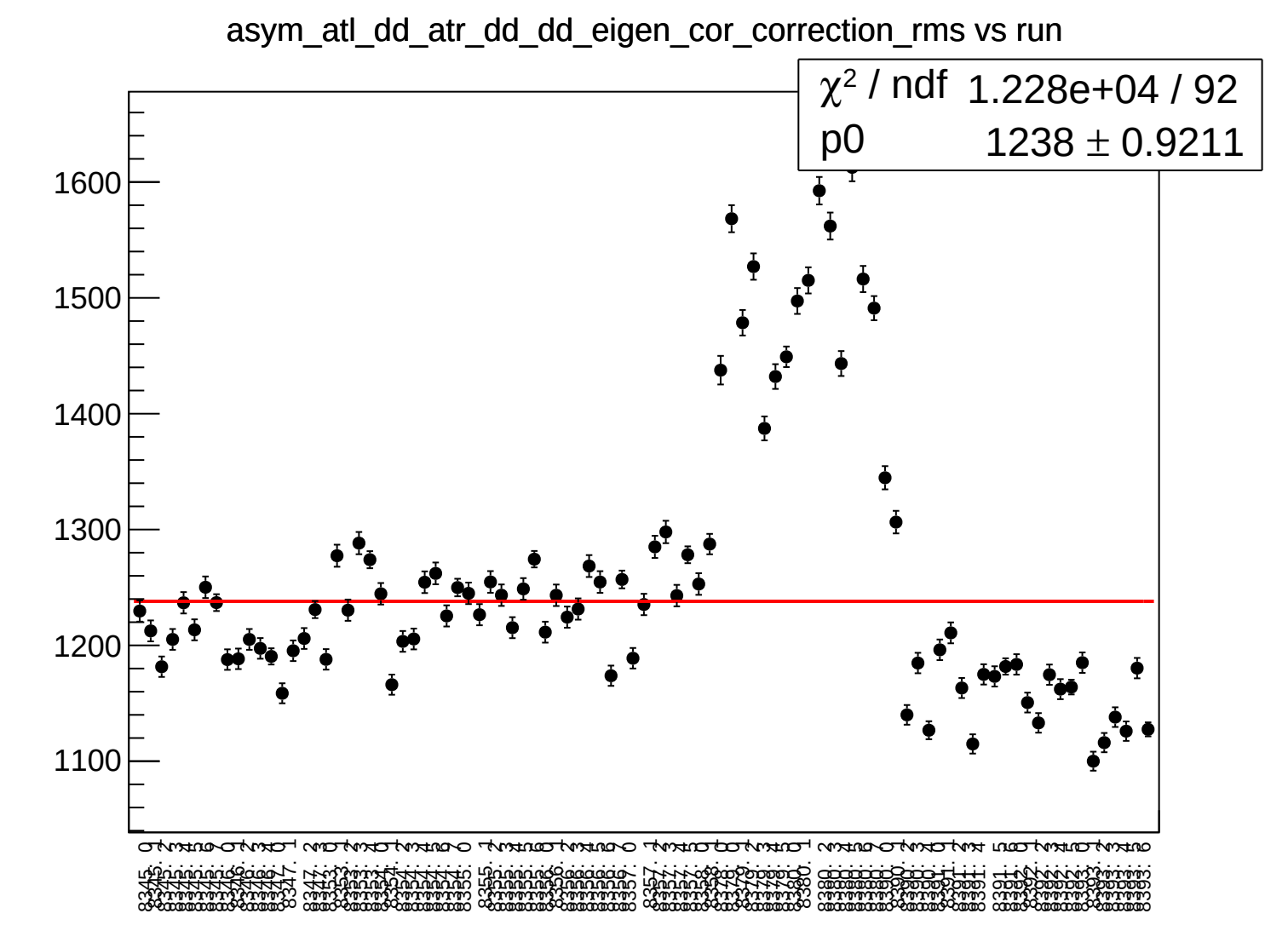

pull1D
Entries 93
Mean −0.009504
Std Dev 1.125
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

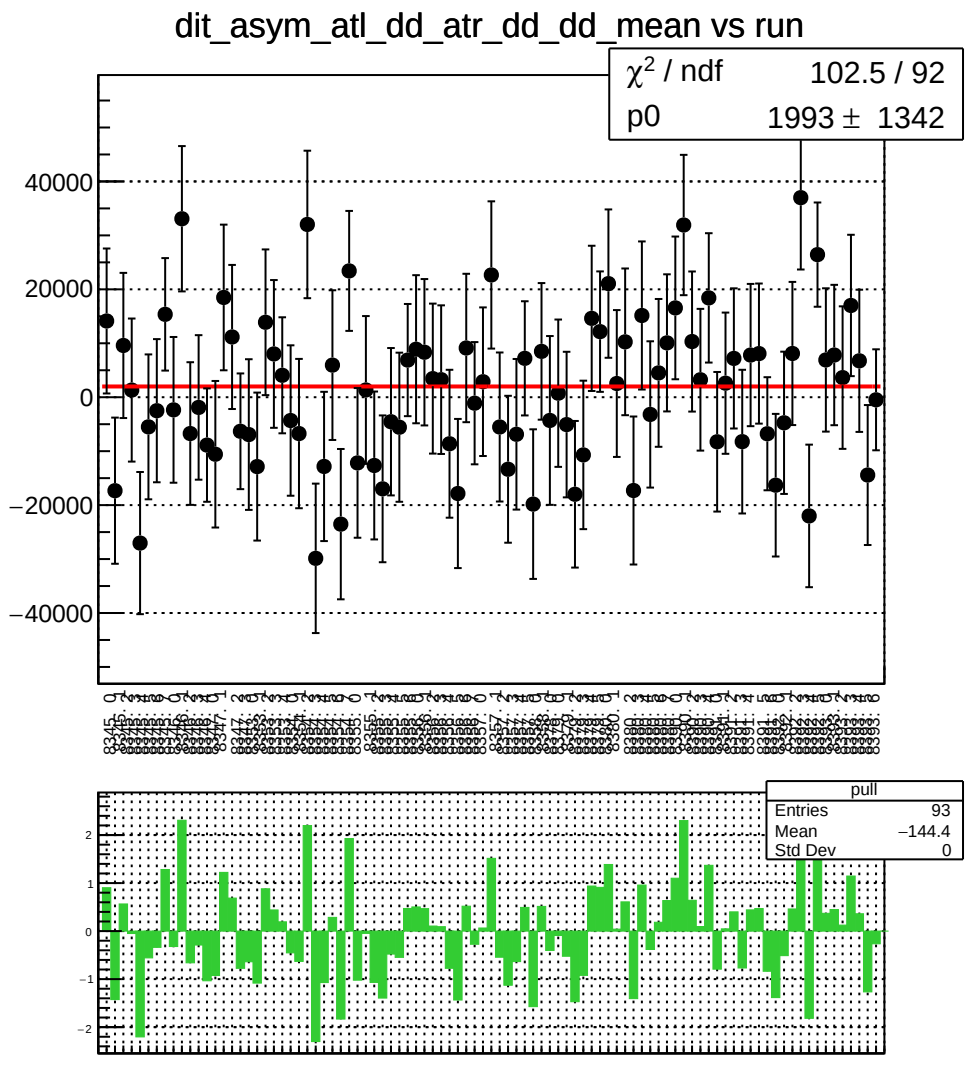

asym_atl_dd_atr_dd_dd_cor_correction_rms vs run
χ² / ndf 1.228e+04 / 92
p0 1238 ± 0.9211
1600
1500
1400
1300
1200
1100

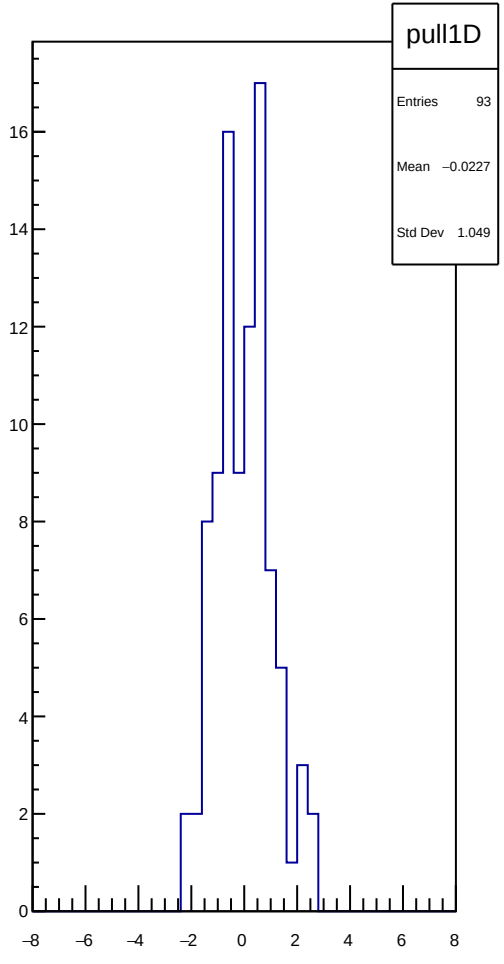

eigen_cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 103.2 / 92
p0 2030 ± 1342
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −140.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.02288
Std Dev 1.053
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

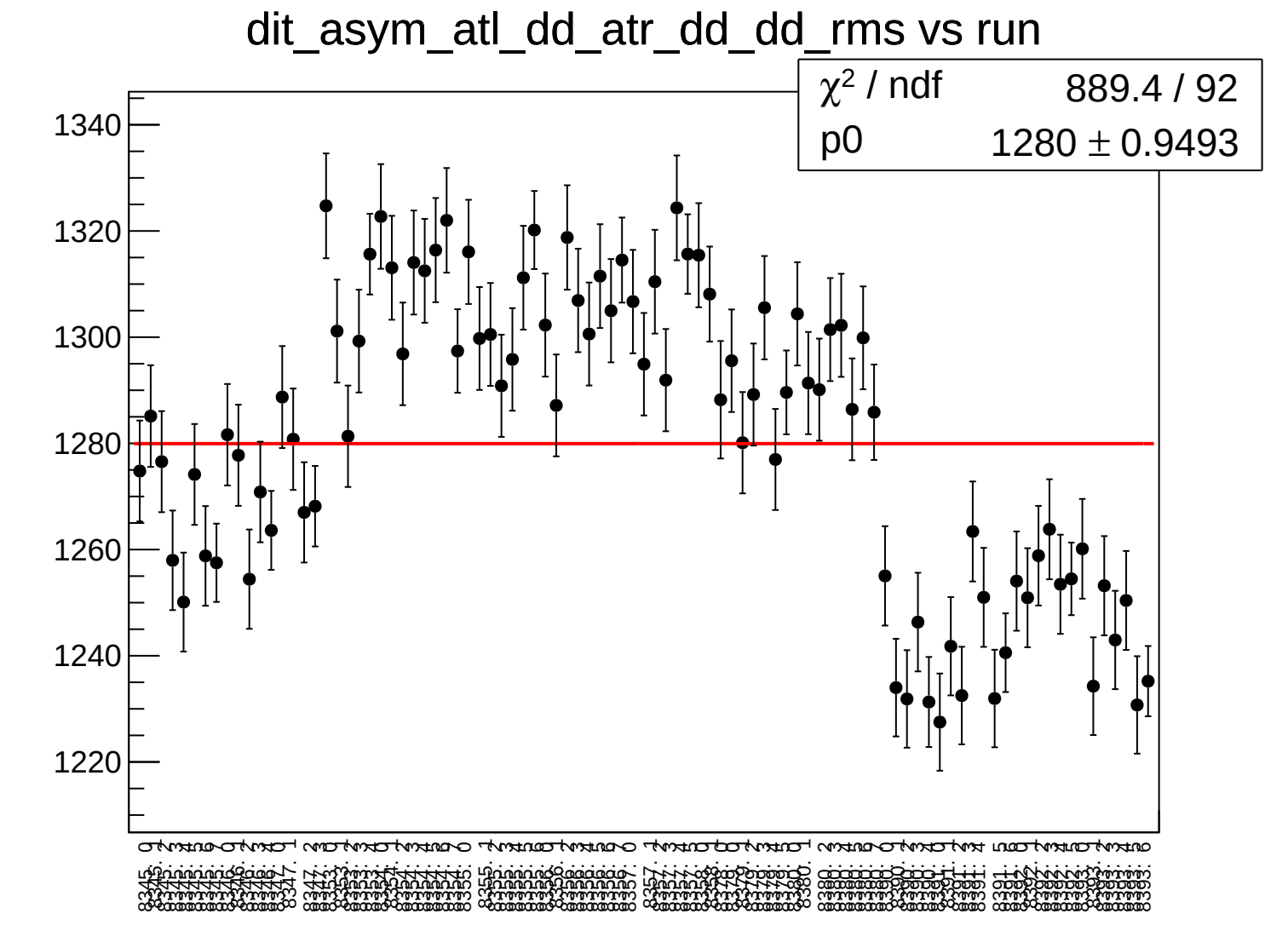

eigen_cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 889.4 / 92
p0 1280 ± 0.949
1340
1320
1300
1280
1260
1240
1220

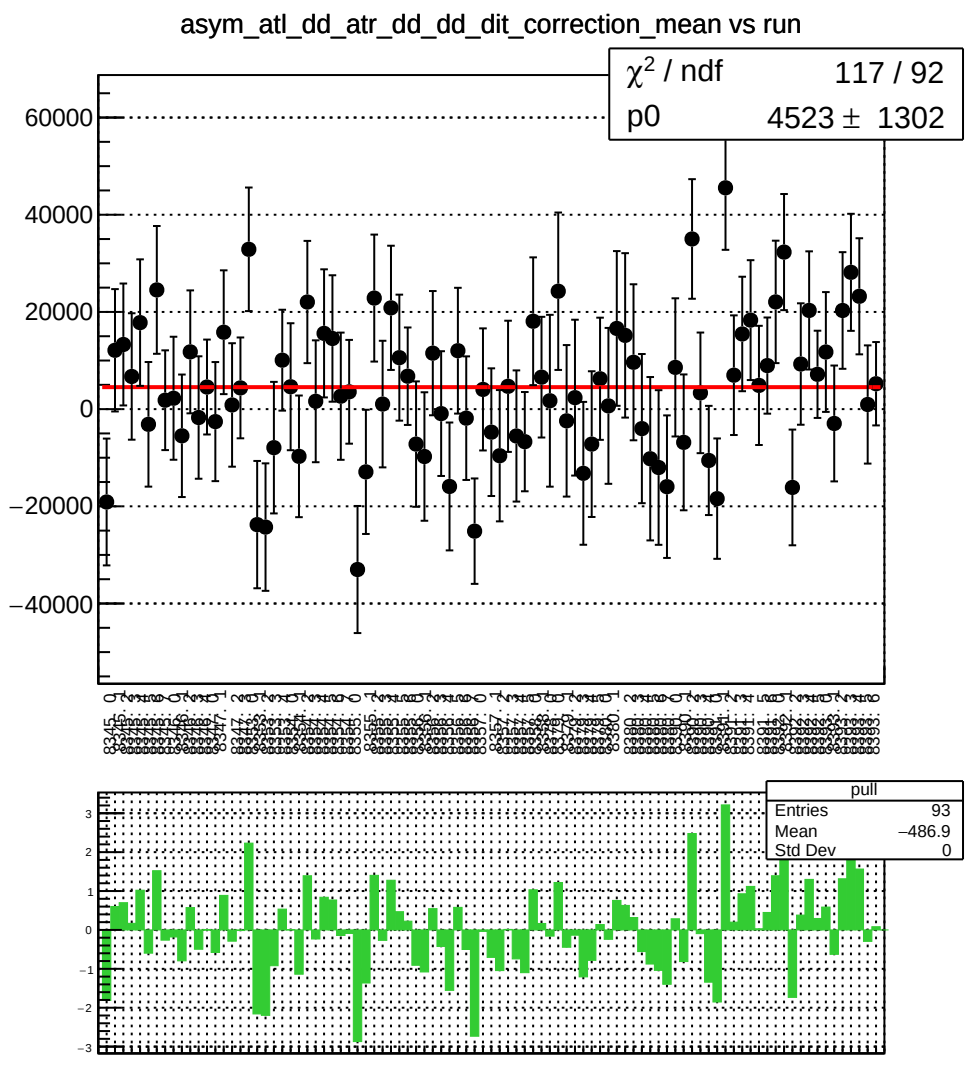

asym_atl_dd_atr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 117.6 / 92
p0 4552 ± 1303
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −487.2
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.009504
Std Dev 1.125
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

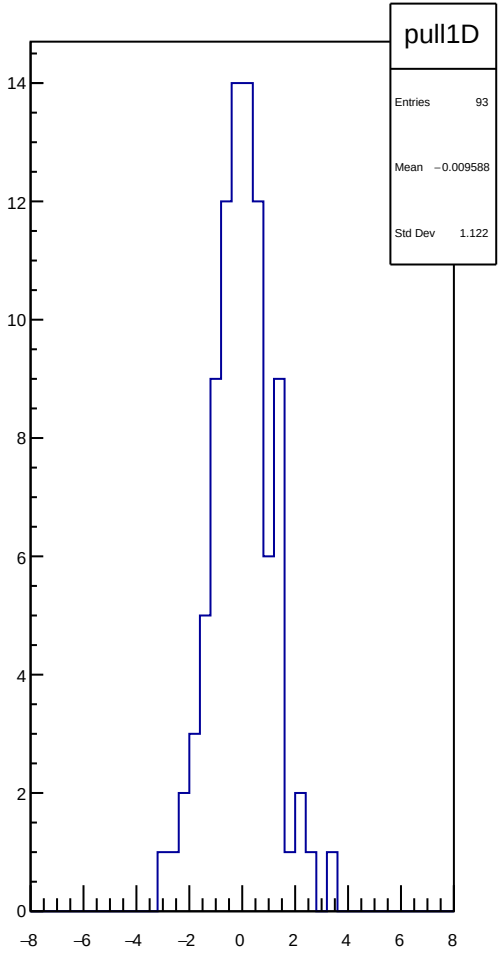

asym_atl_dd_atr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.228e+04 / 92
p0 1238 ± 0.9211
1600
1500
1400
1300
1200
1100

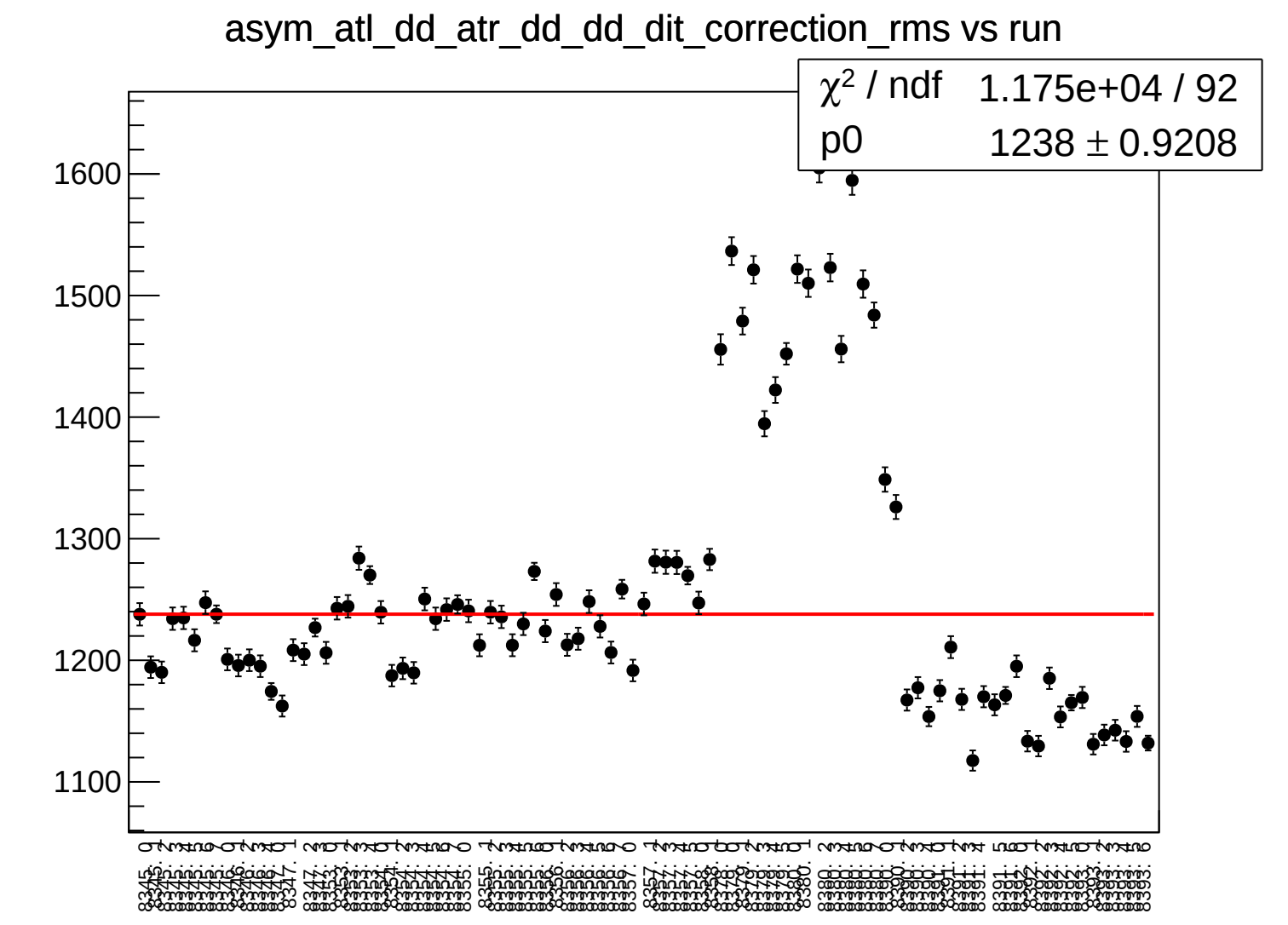

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 102.5 / 92
p0 1993 ± 1342
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −144.4
Std Dev 0
2
1
0
−1
−2

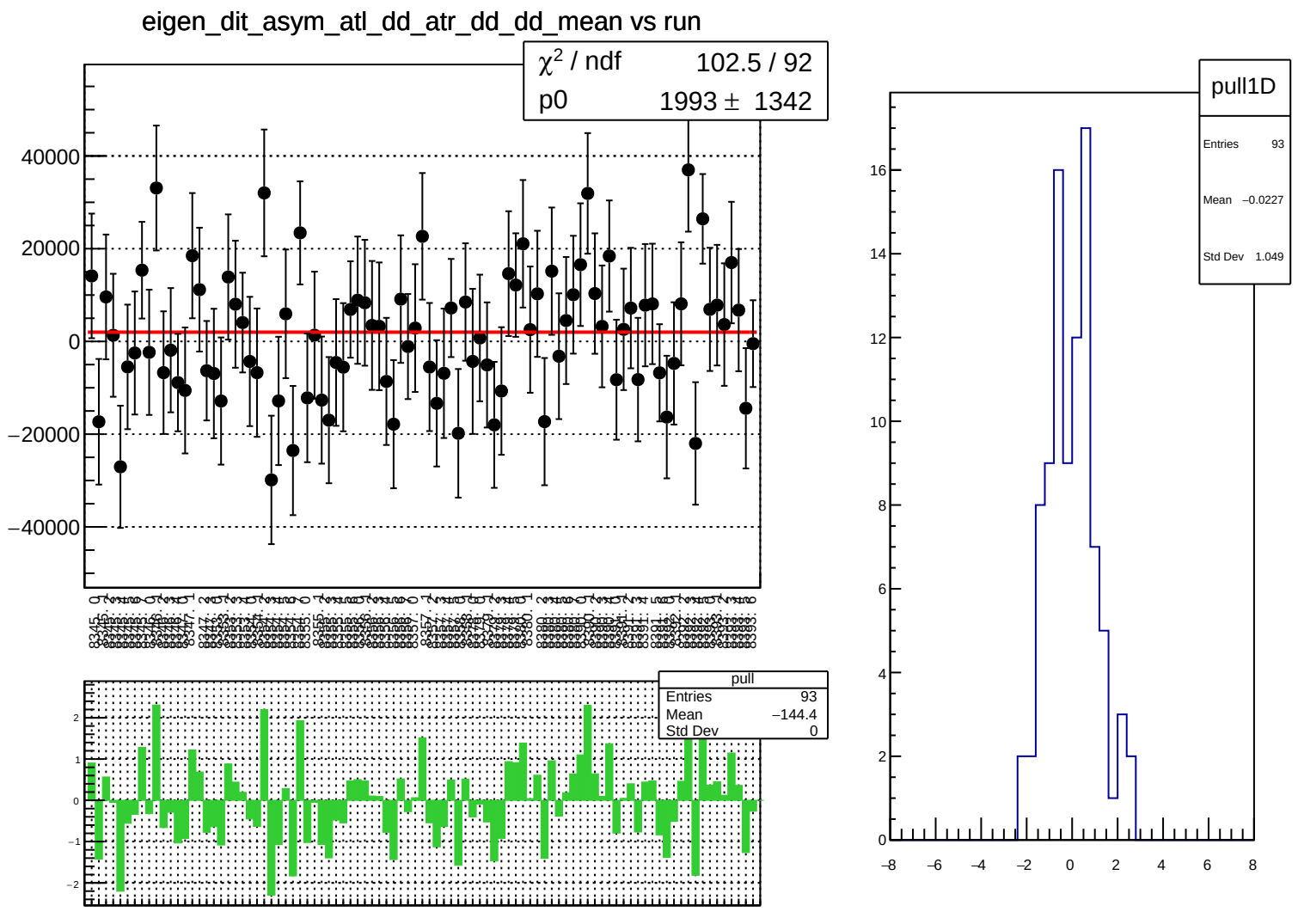

pull1D
Entries 93
Mean −0.0227
Std Dev 1.049
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

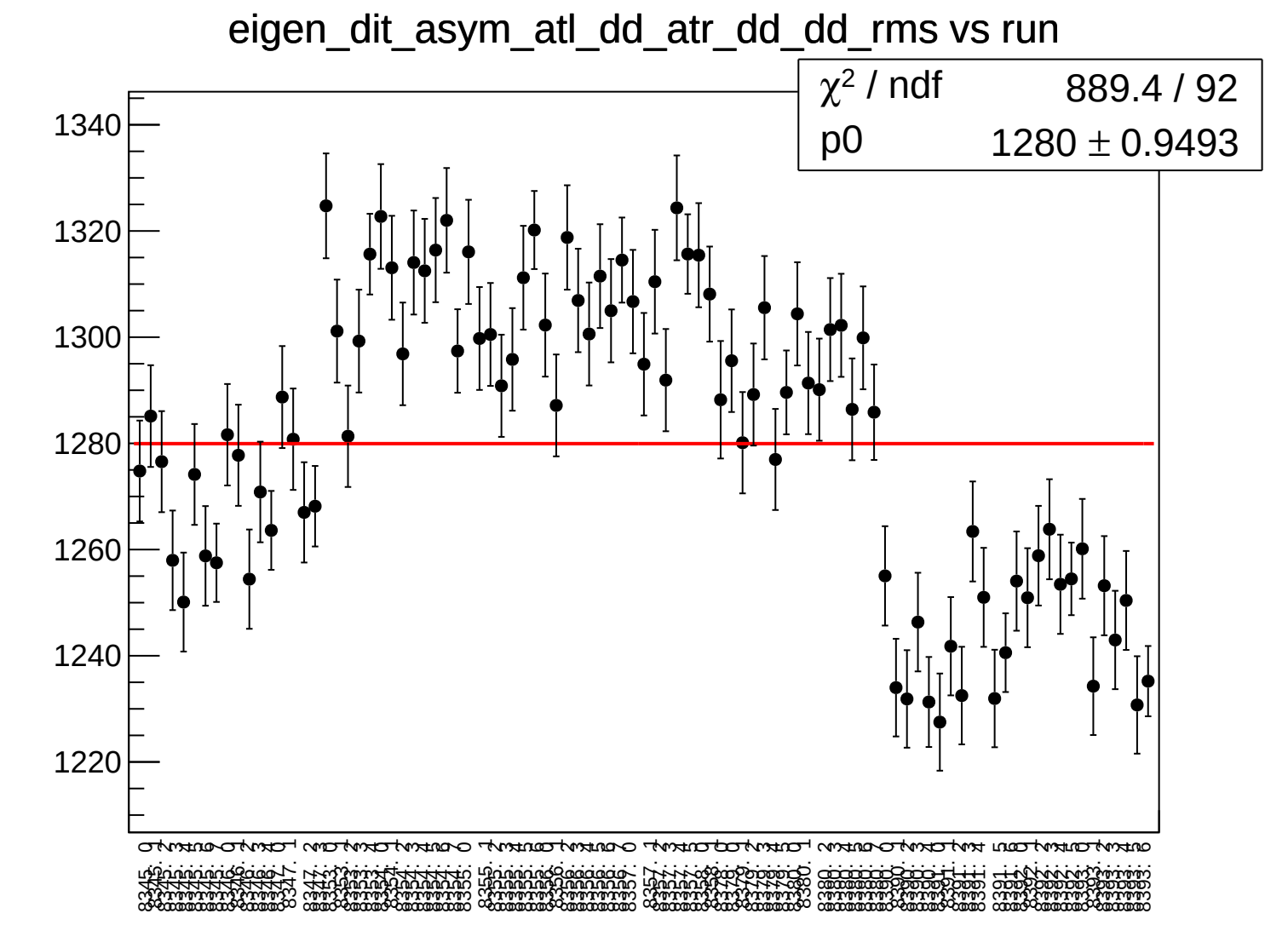

dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 889.4 / 92
p0 1280 ± 0.9493
1340
1320
1300
1280
1260
1240
1220

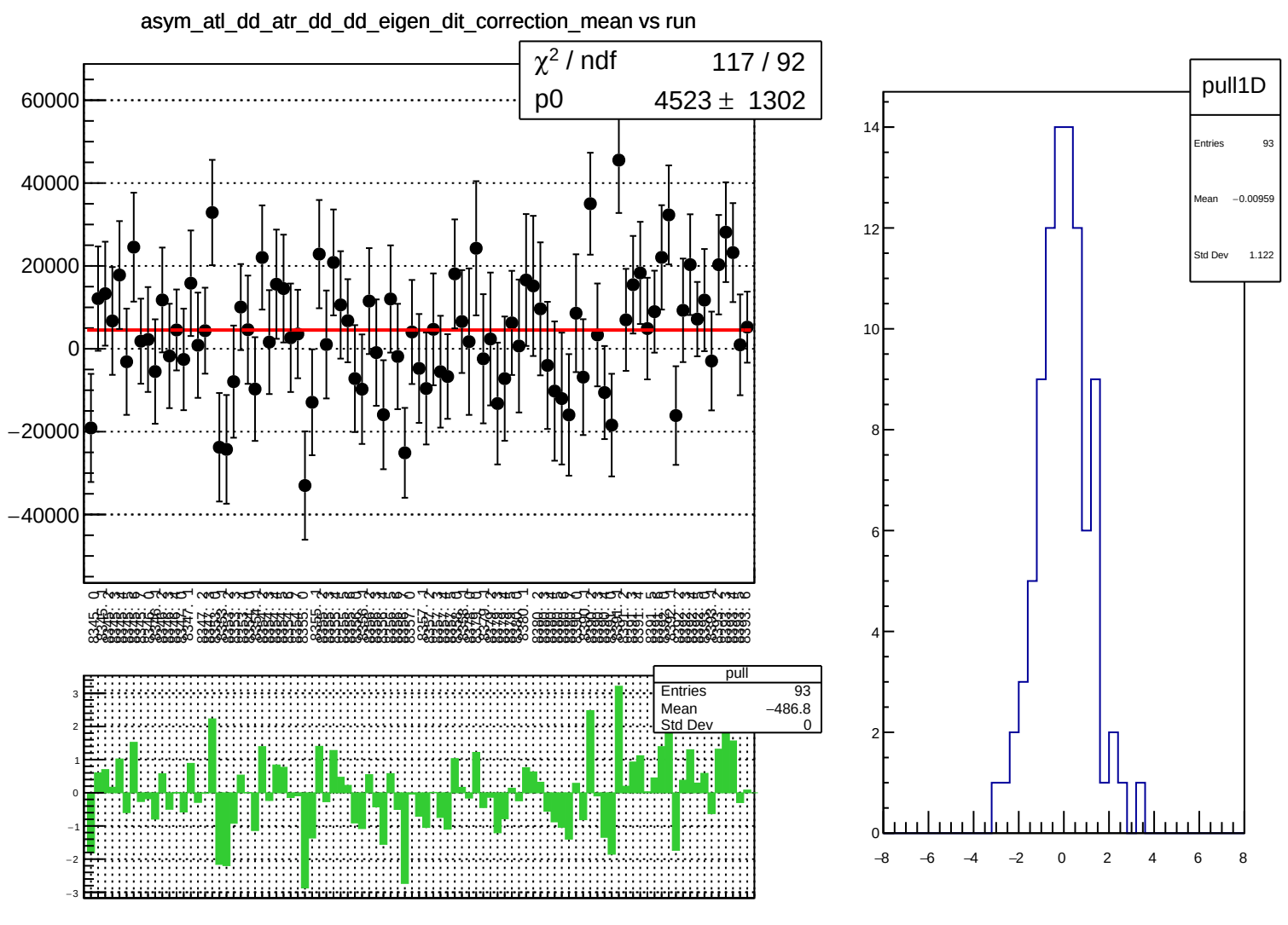

asym_atl_dd_atr_dd_dd_dit_correction_mean vs run
χ² / ndf 117 / 92
p0 4523 ± 1302
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −486.9
Std Dev 0
3
2
1
0
−1
−2
−3

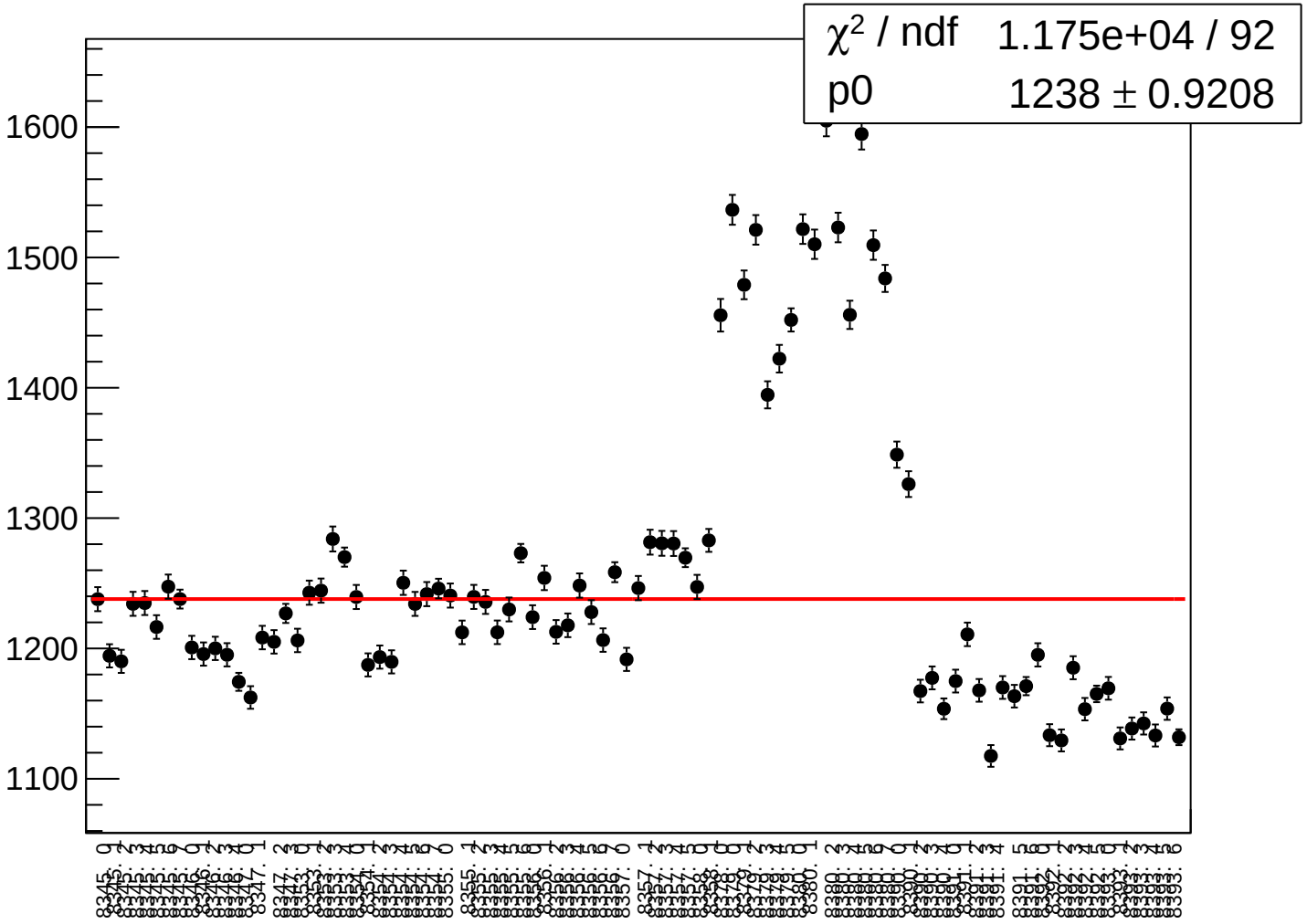

pull1D
Entries 93
Mean −0.009588
Std Dev 1.122
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

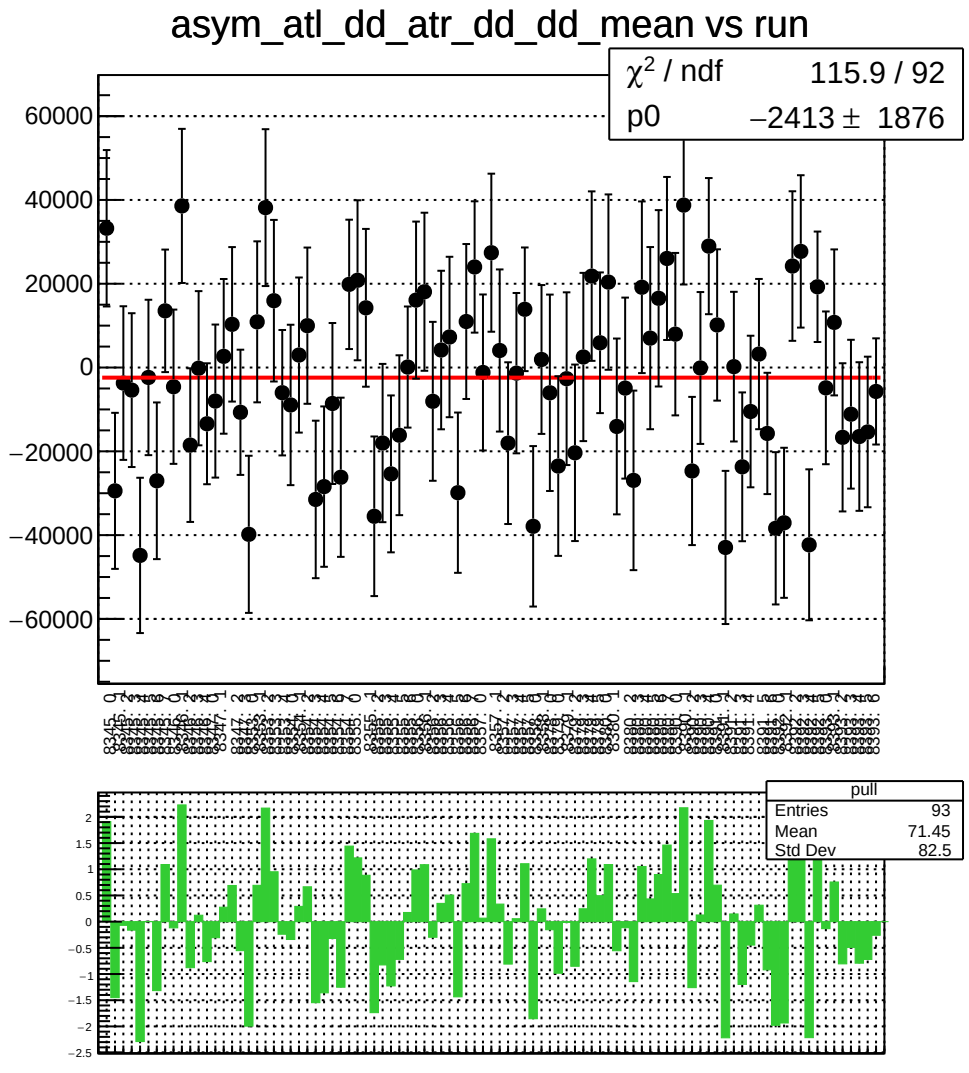

asym_atl_dd_atr_dd_dd_dit_correction_rms vs run
χ² / ndf 1.175e+04 / 92
p0 1238 ± 0.9208
1600
1500
1400
1300
1200
1100

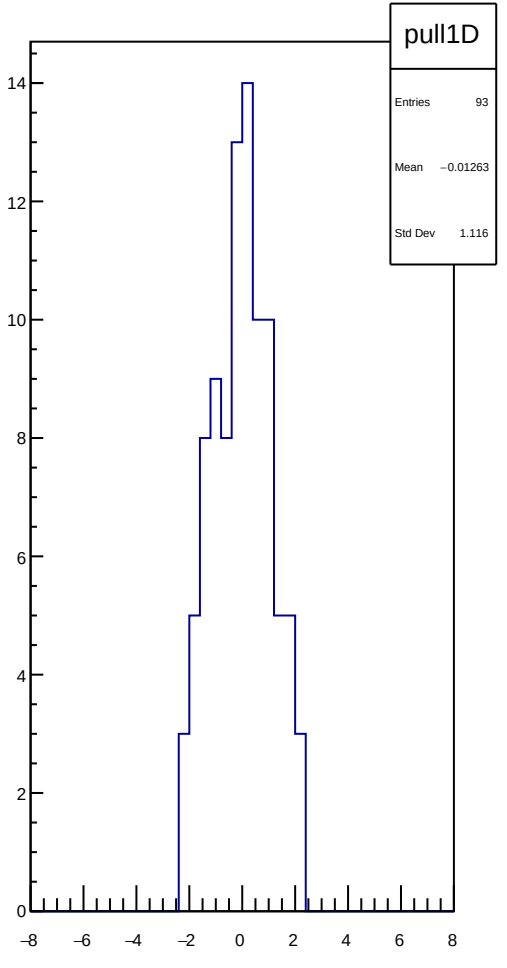

eigen_dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 102.5 / 92
p0 1993 ± 1342
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −144.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.0227
Std Dev 1.049
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

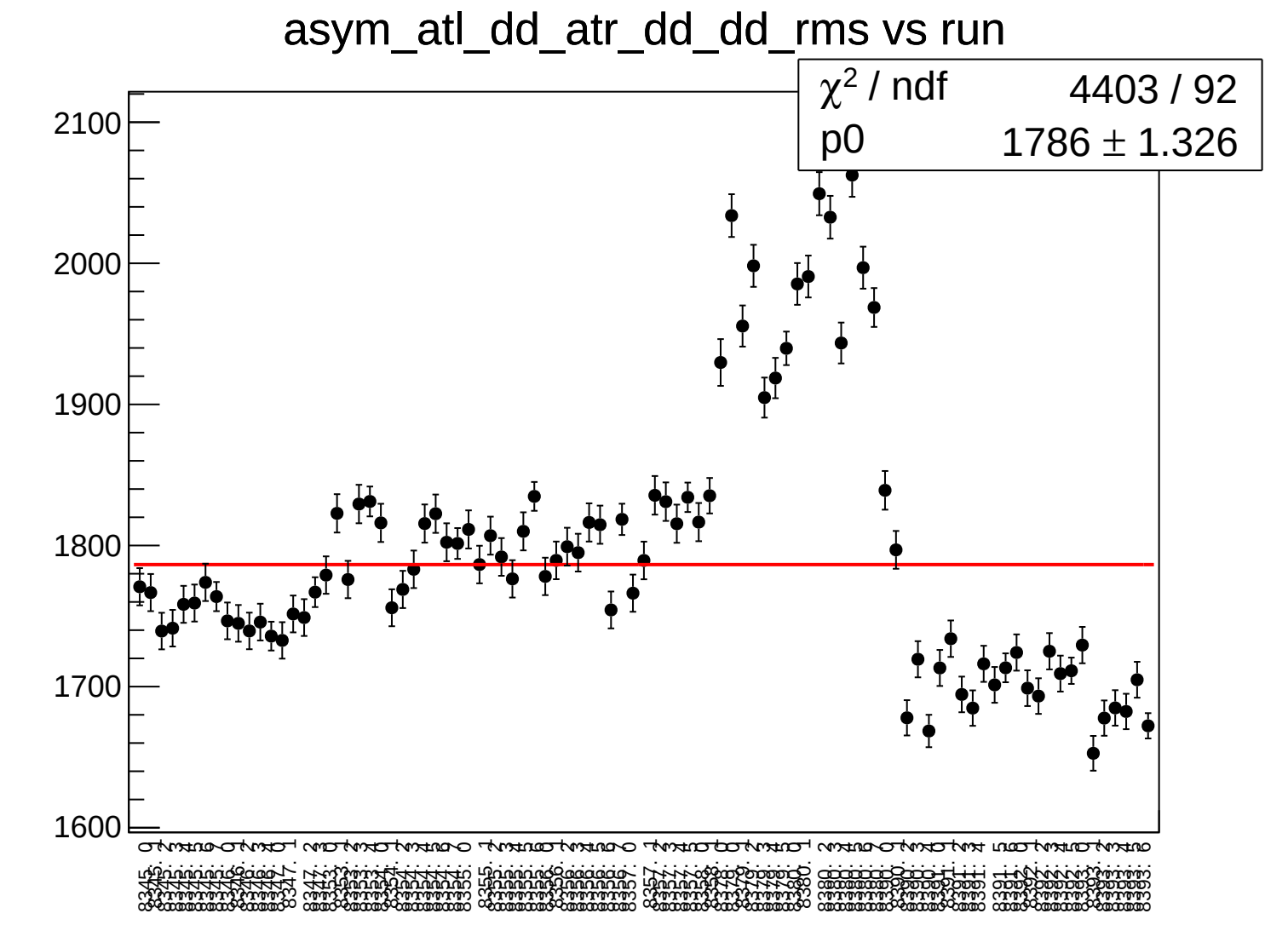

eigen_dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 889.4 / 92
p0 1280 ± 0.9493
1340
1320
1300
1280
1260
1240
1220

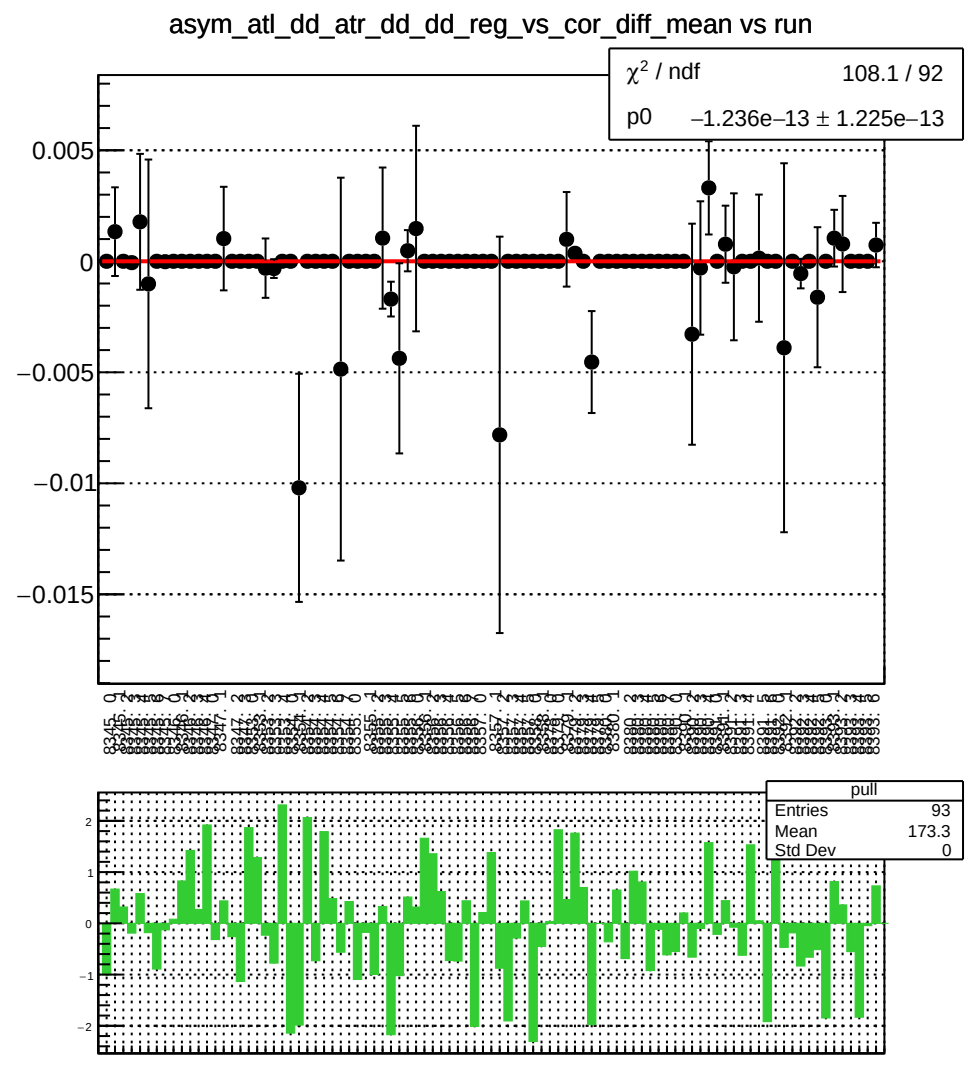

asym_atl_dd_atr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 117 / 92
p0 4523 ± 1302
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −486.8
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.00959
Std Dev 1.122
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

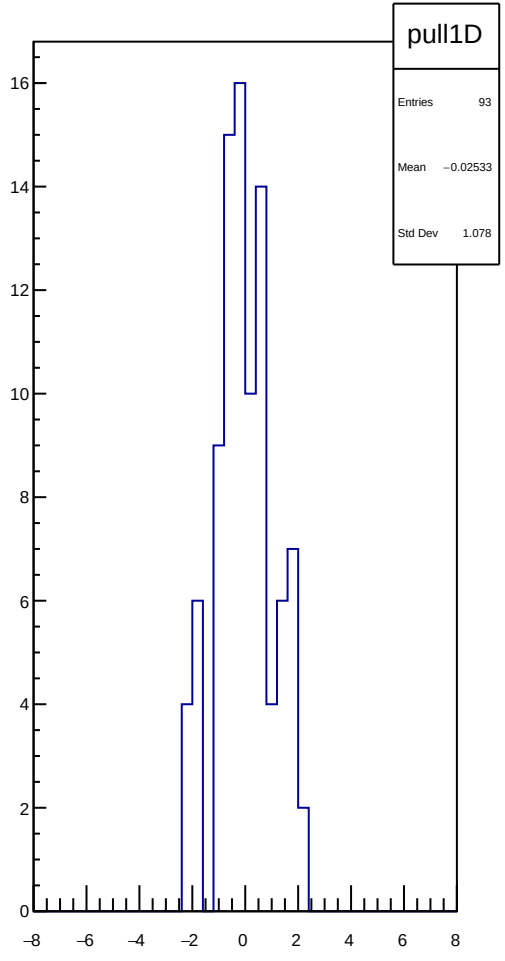

asym_atl_dd_atr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.175e+04 / 92
p0 1238 ± 0.9208
1600
1500
1400
1300
1200
1100

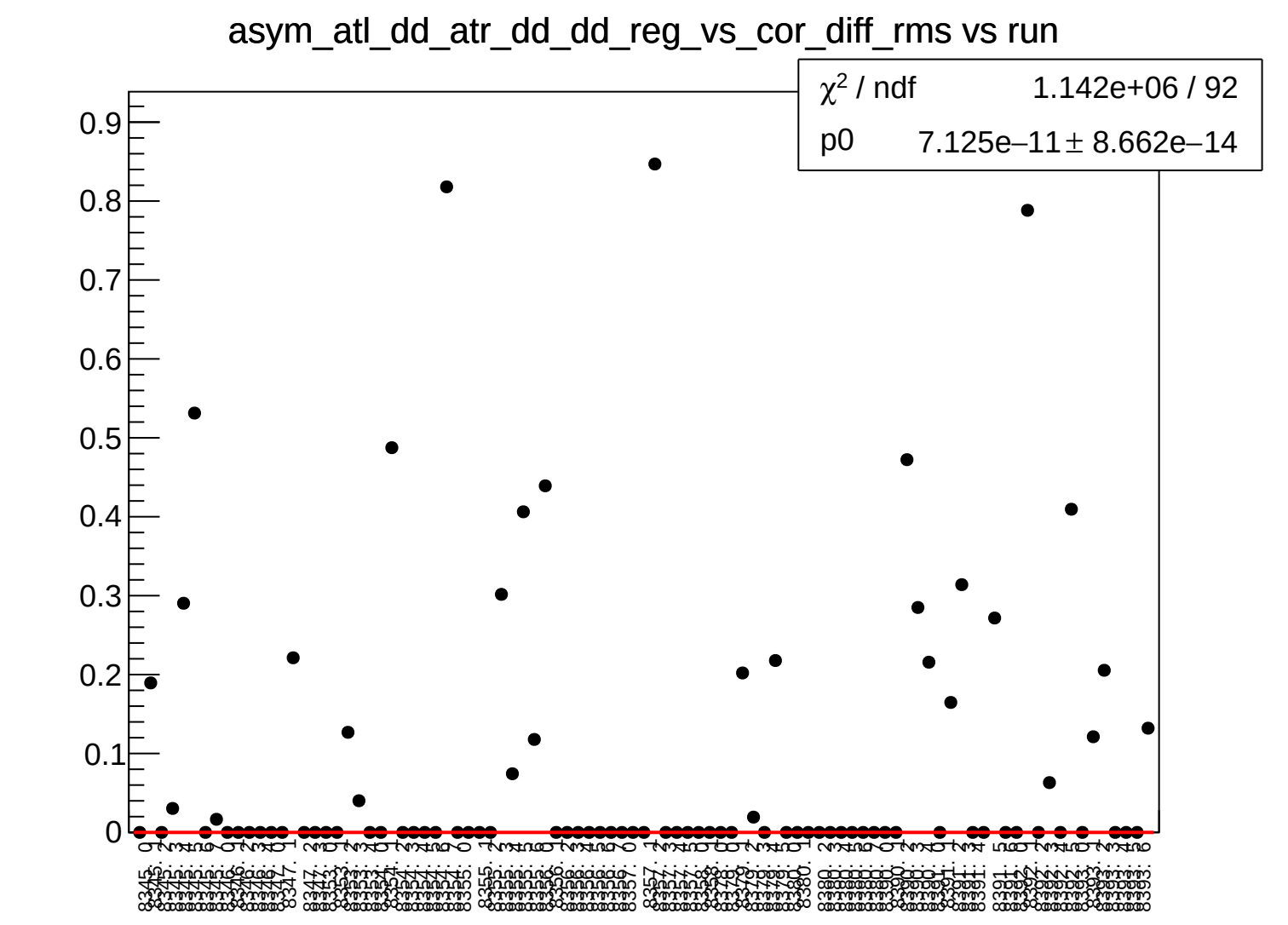

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 115.9 / 92
p0 −2413 ± 1876
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 71.45
Std Dev 82.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

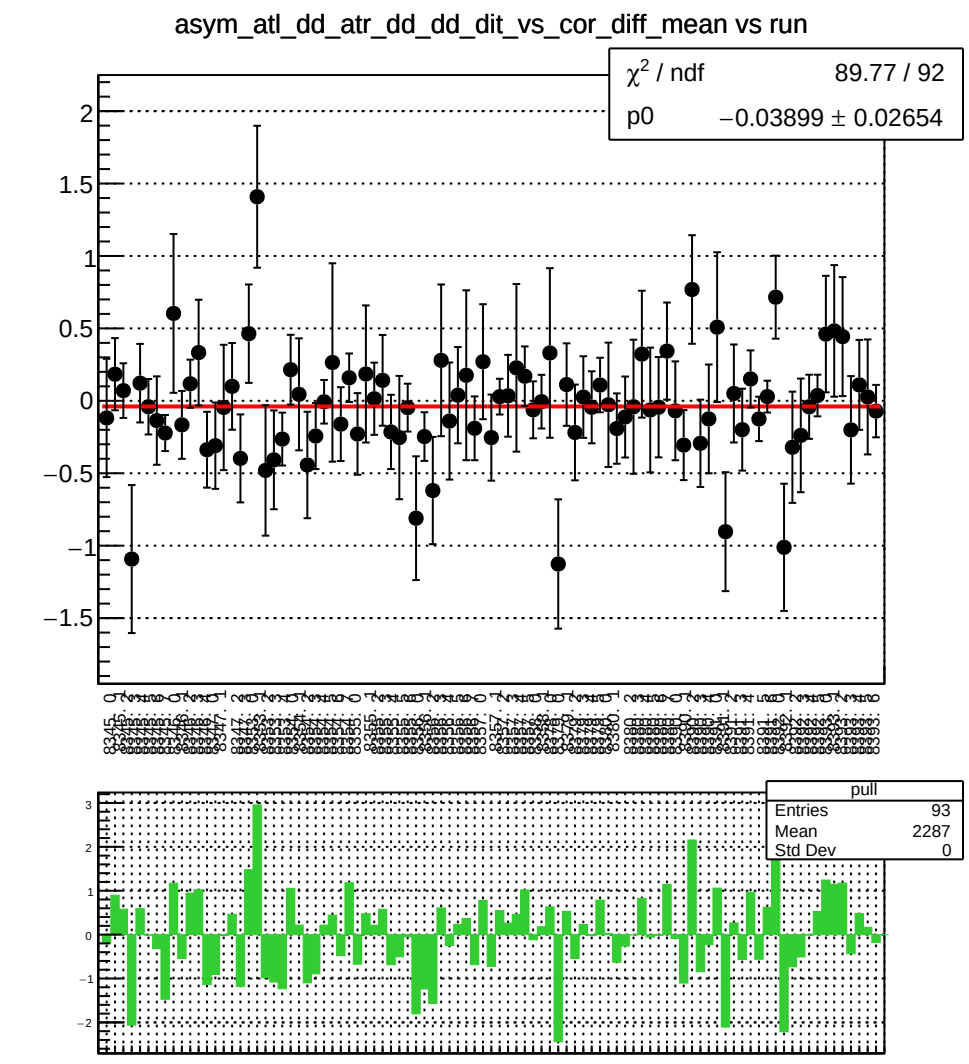

pull1D
Entries 93
Mean −0.01263
Std Dev 1.116
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

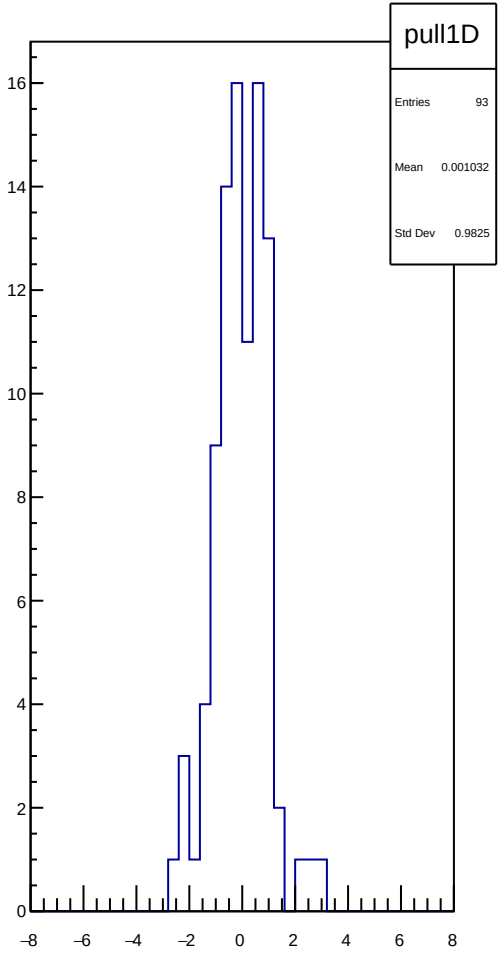

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 4403 / 92
p0 1786 ± 1.326
2100
2000
1900
1800
1700
1600

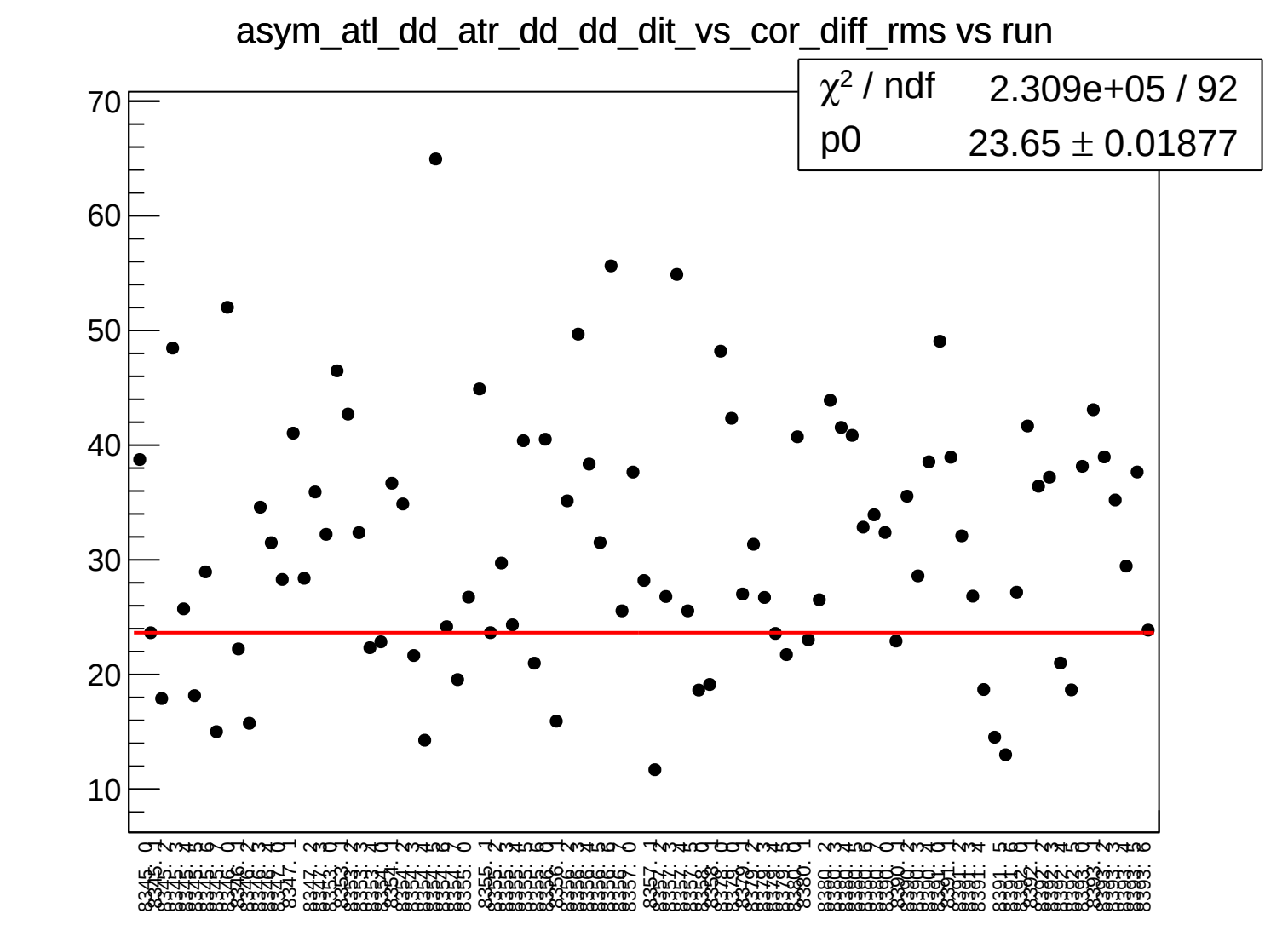

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 108.1 / 92
p0 −1.236e−13 ± 1.225e−13
0.005
0
−0.005
−0.01
−0.015
pull
Entries 93
Mean 173.3
Std Dev 0
2
1
0
−1
−2

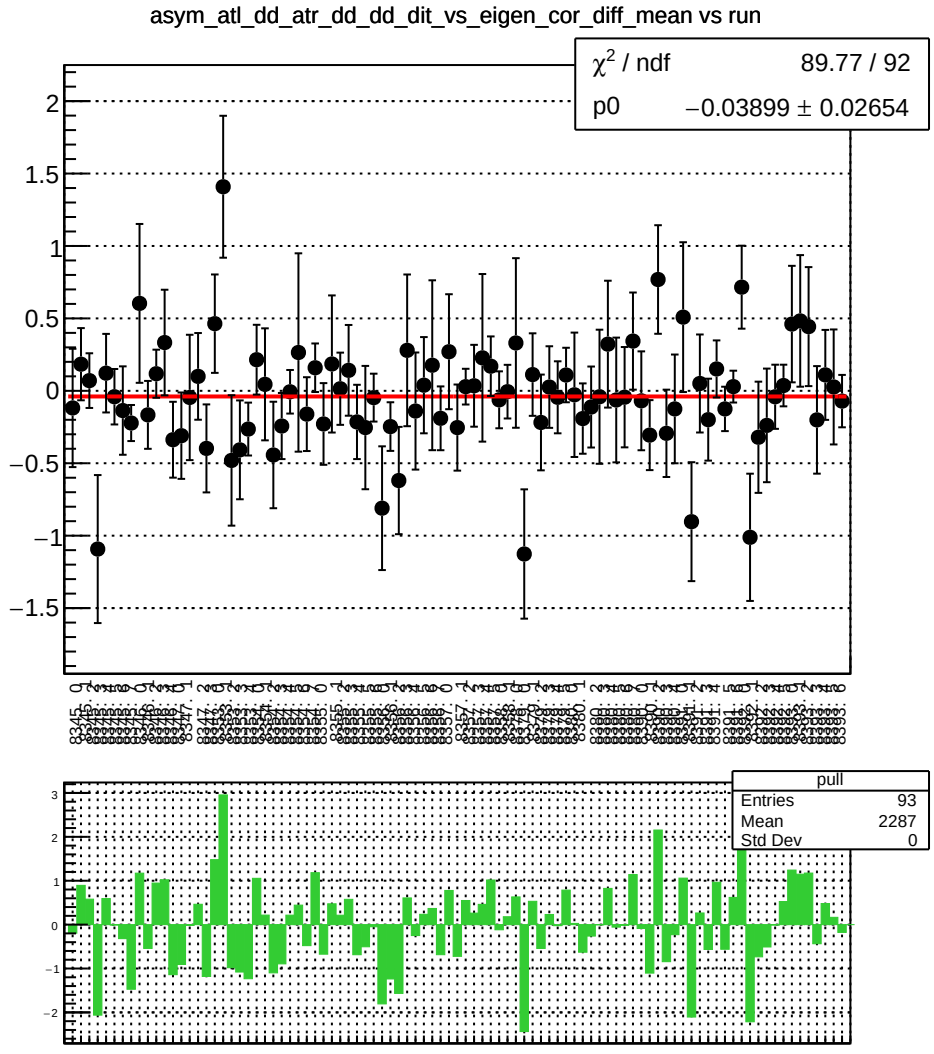

pull1D
Entries 93
Mean −0.02533
Std Dev 1.078
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

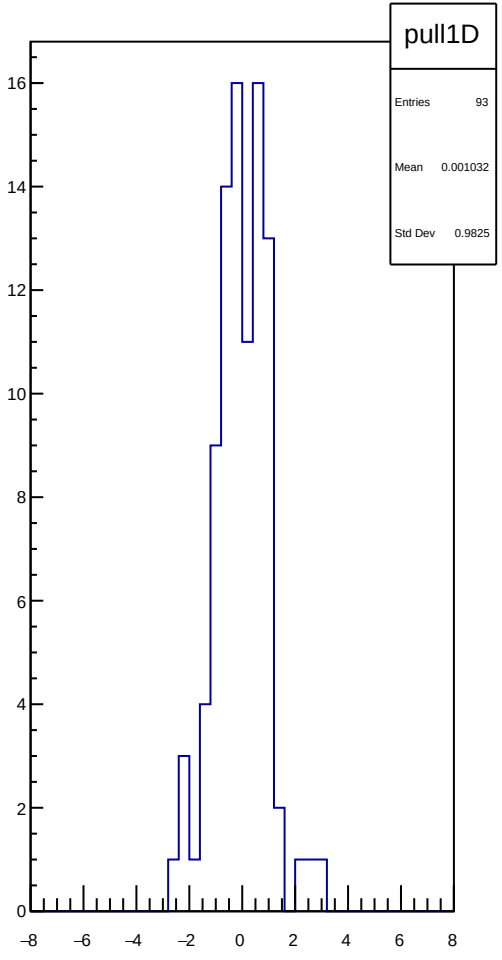

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.142e+06 / 92
p0 7.125e−11 ± 8.662e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

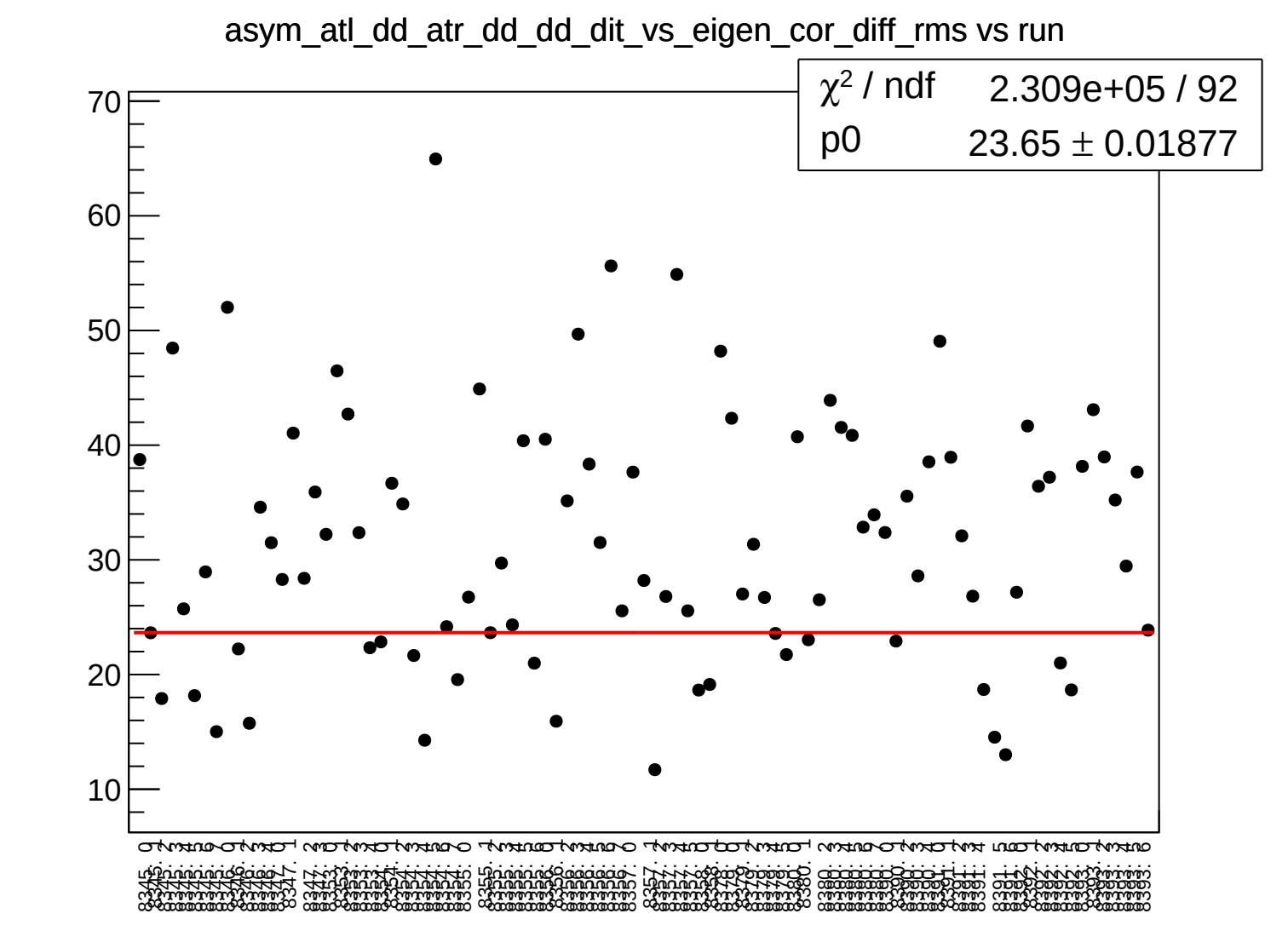

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 89.77 / 92
p0 −0.03899 ± 0.02654
pull
Entries 93
Mean 2287
Std Dev 0

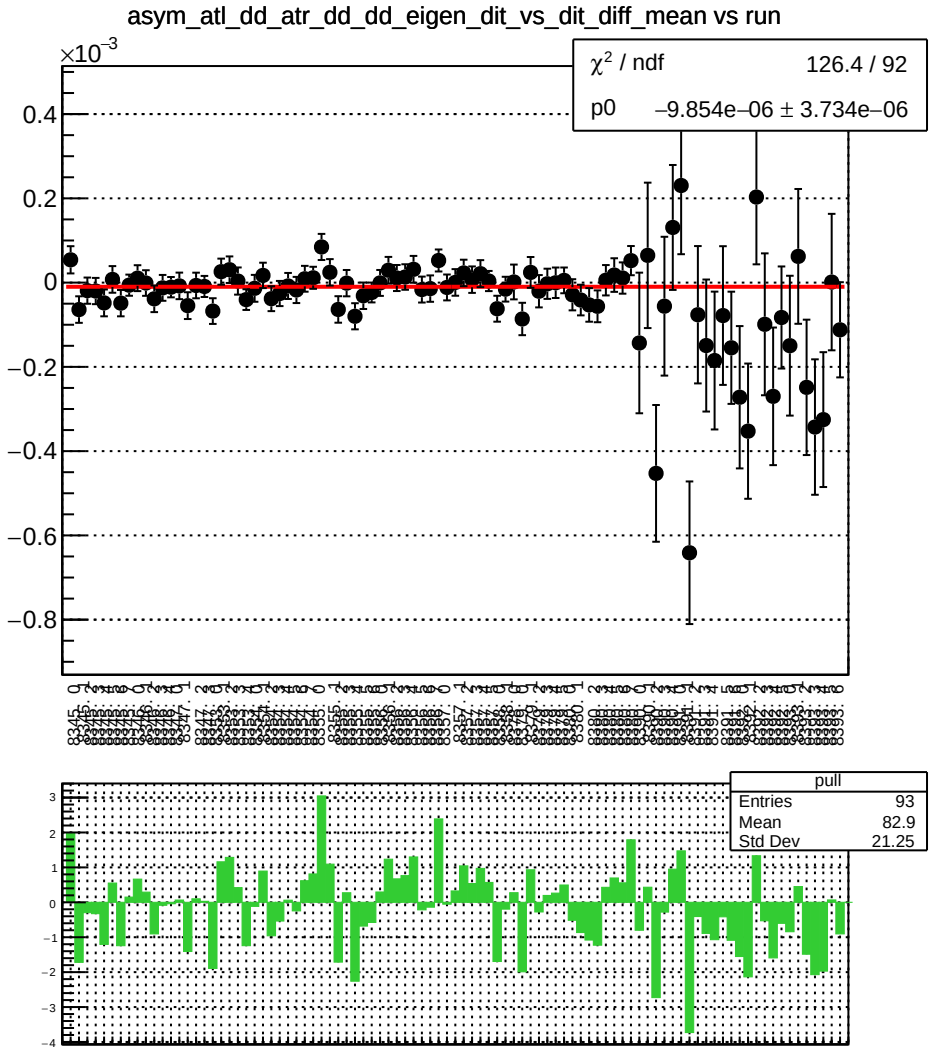

pull1D
Entries 93
Mean 0.001032
Std Dev 0.9825

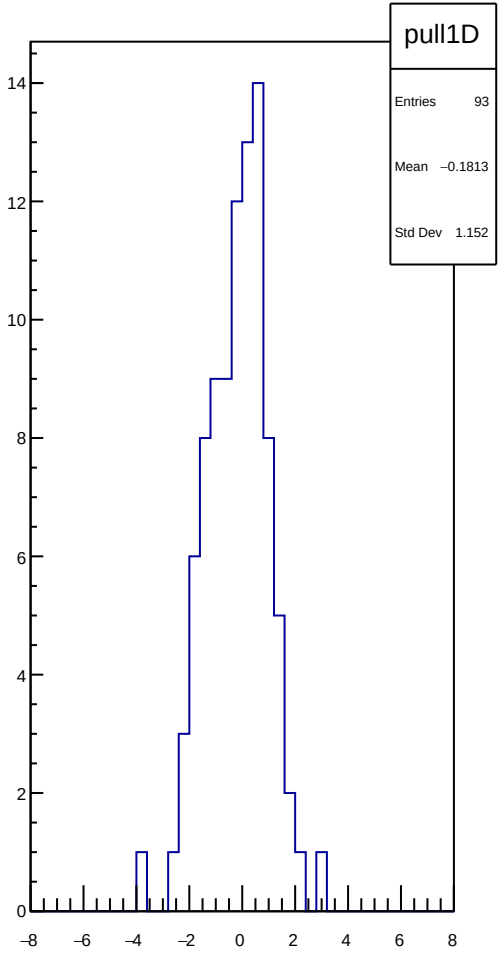

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.309e+05 / 92
p0 23.65 ± 0.01877
70
60
50
40
30
20
10

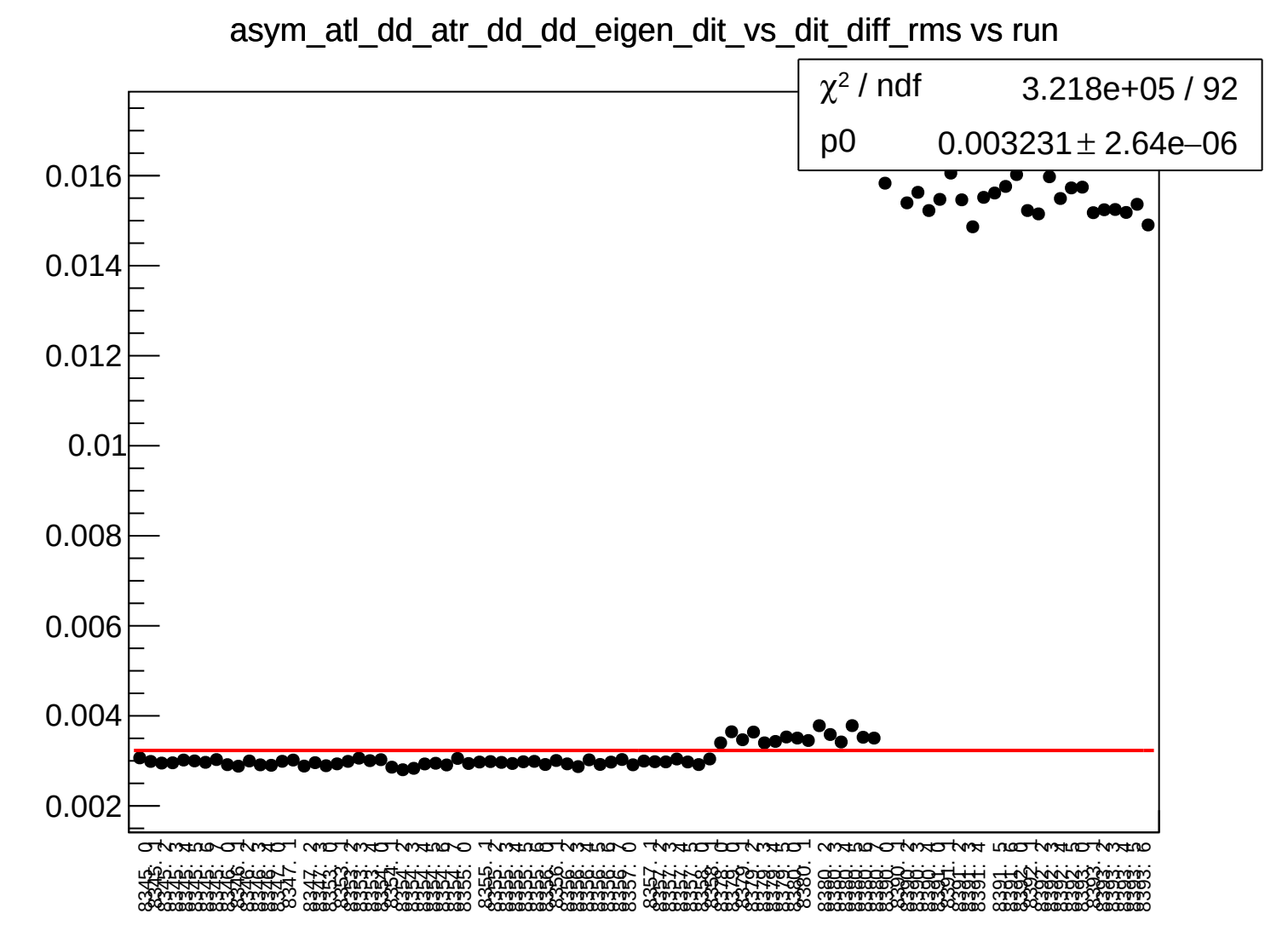

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.77 / 92
p0 −0.03899 ± 0.02654
pull
Entries 93
Mean 2287
Std Dev 0

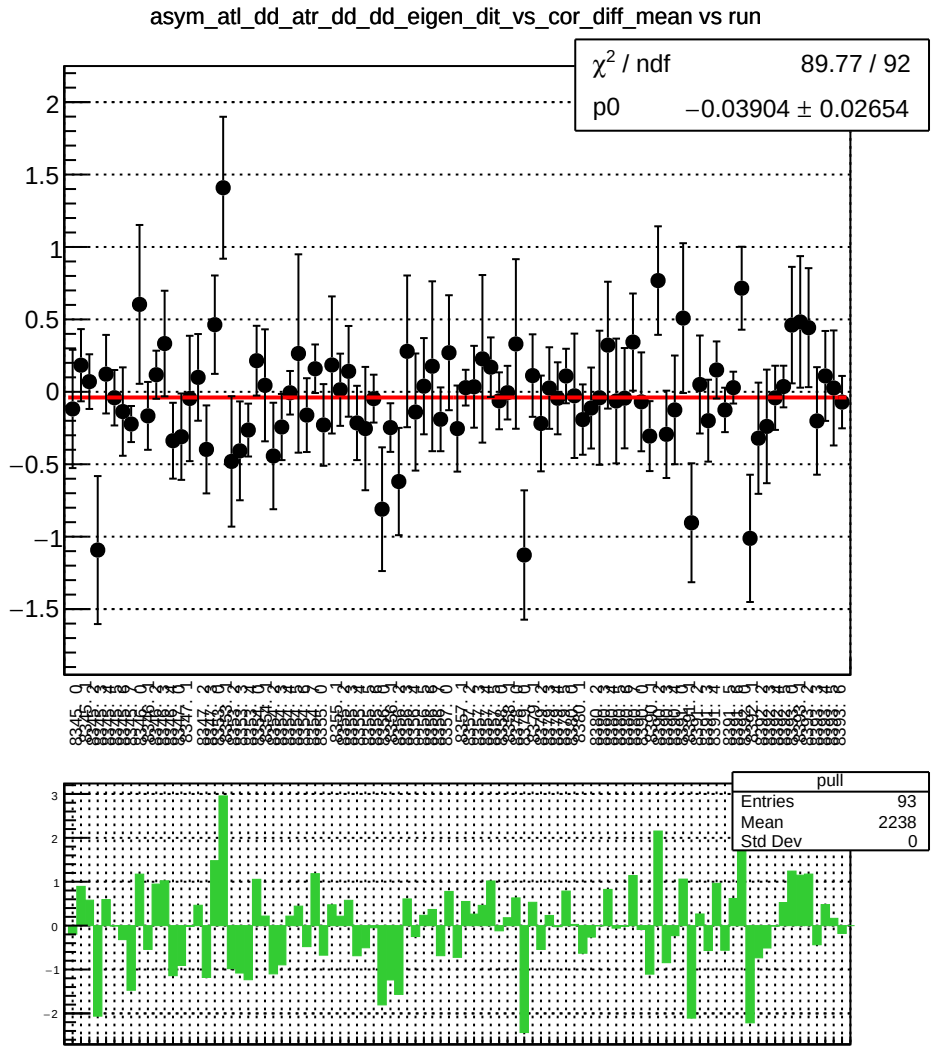

pull1D
Entries 93
Mean 0.001032
Std Dev 0.9825

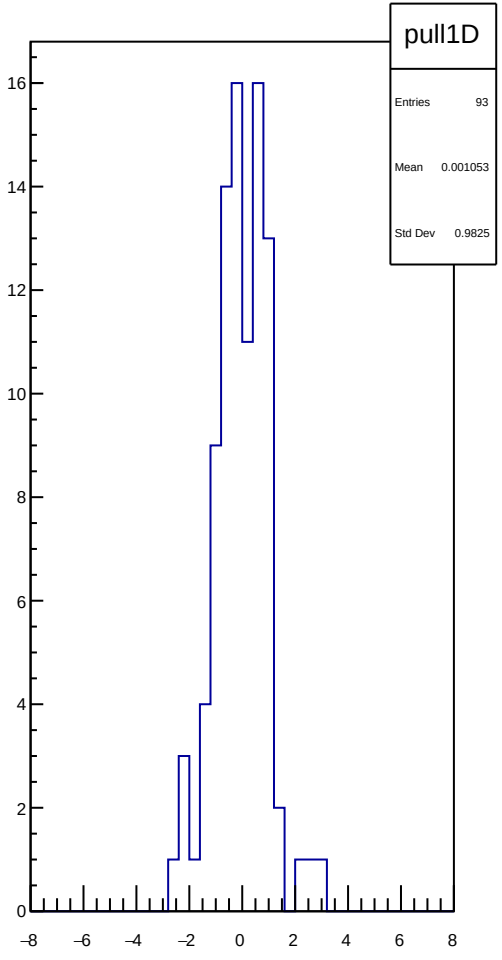

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.309e+05 / 92
p0 23.65 ± 0.01877
70
60
50
40
30
20
10

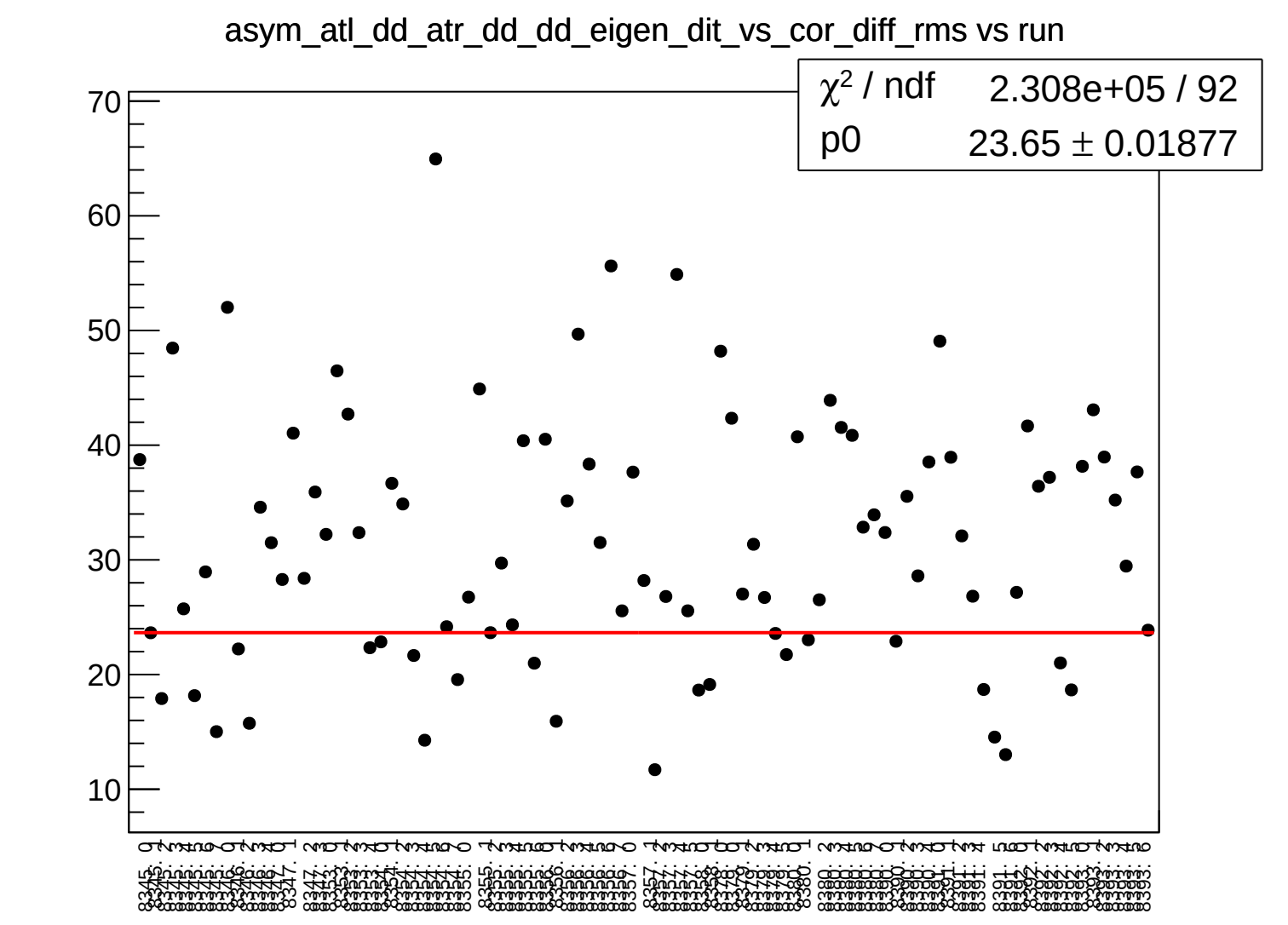

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 126.4 / 92
p0 −9.854e−06 ± 3.734e−06
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull
Entries 93
Mean 82.9
Std Dev 21.25
3
2
1
0
−1
−2
−3
−4

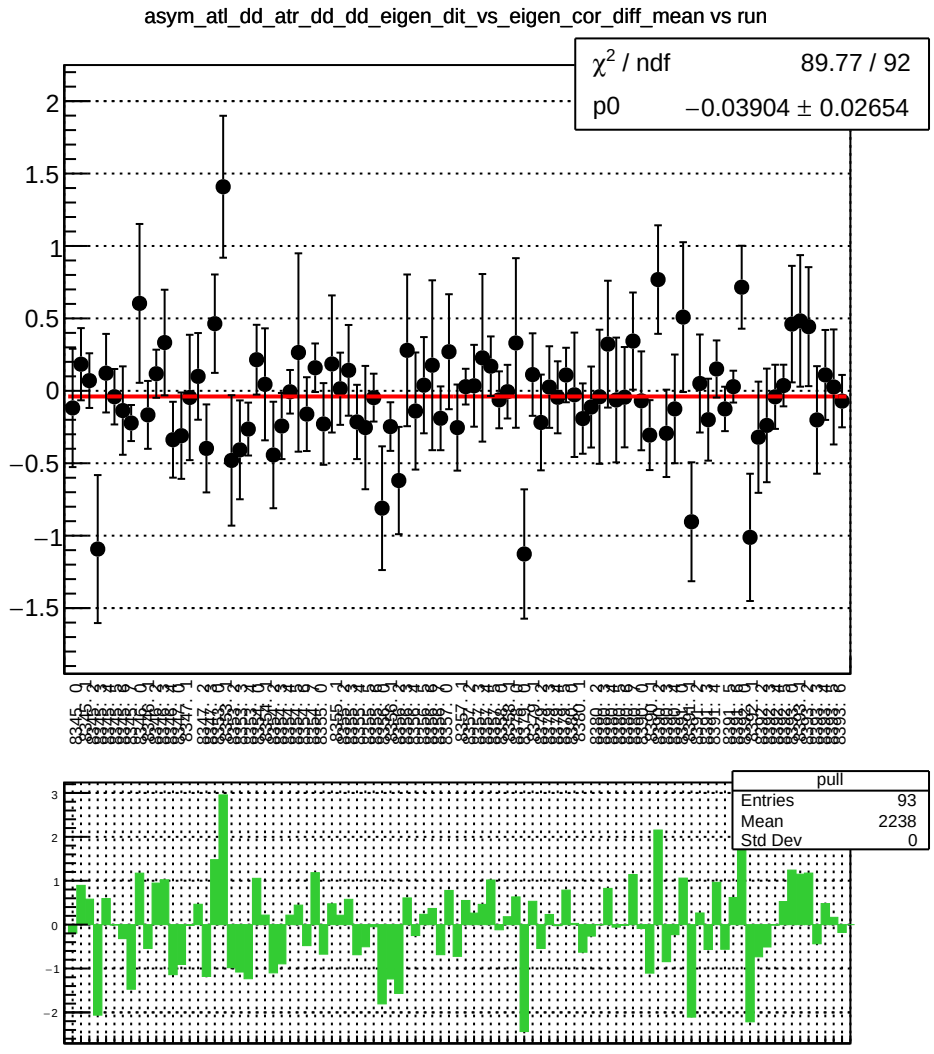

pull1D
Entries 93
Mean −0.1813
Std Dev 1.152
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

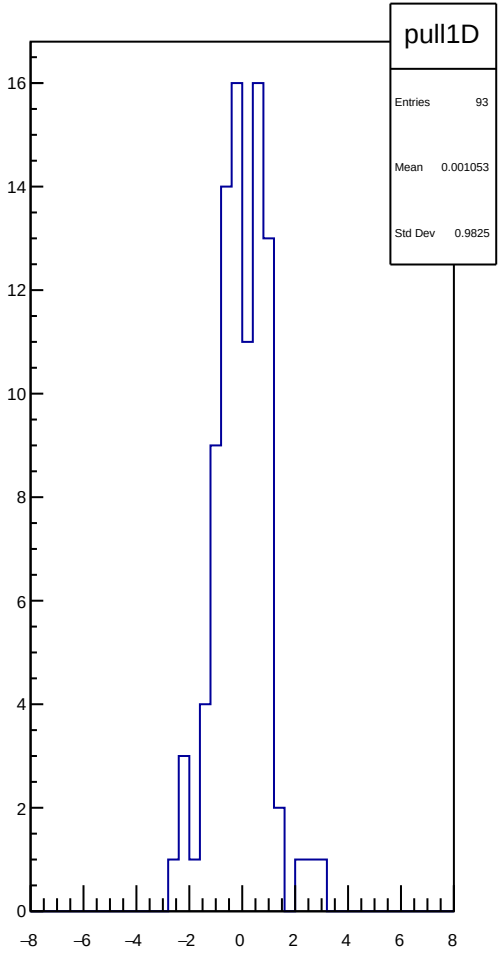

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.218e+05 / 92
p0 0.003231 ± 2.64e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

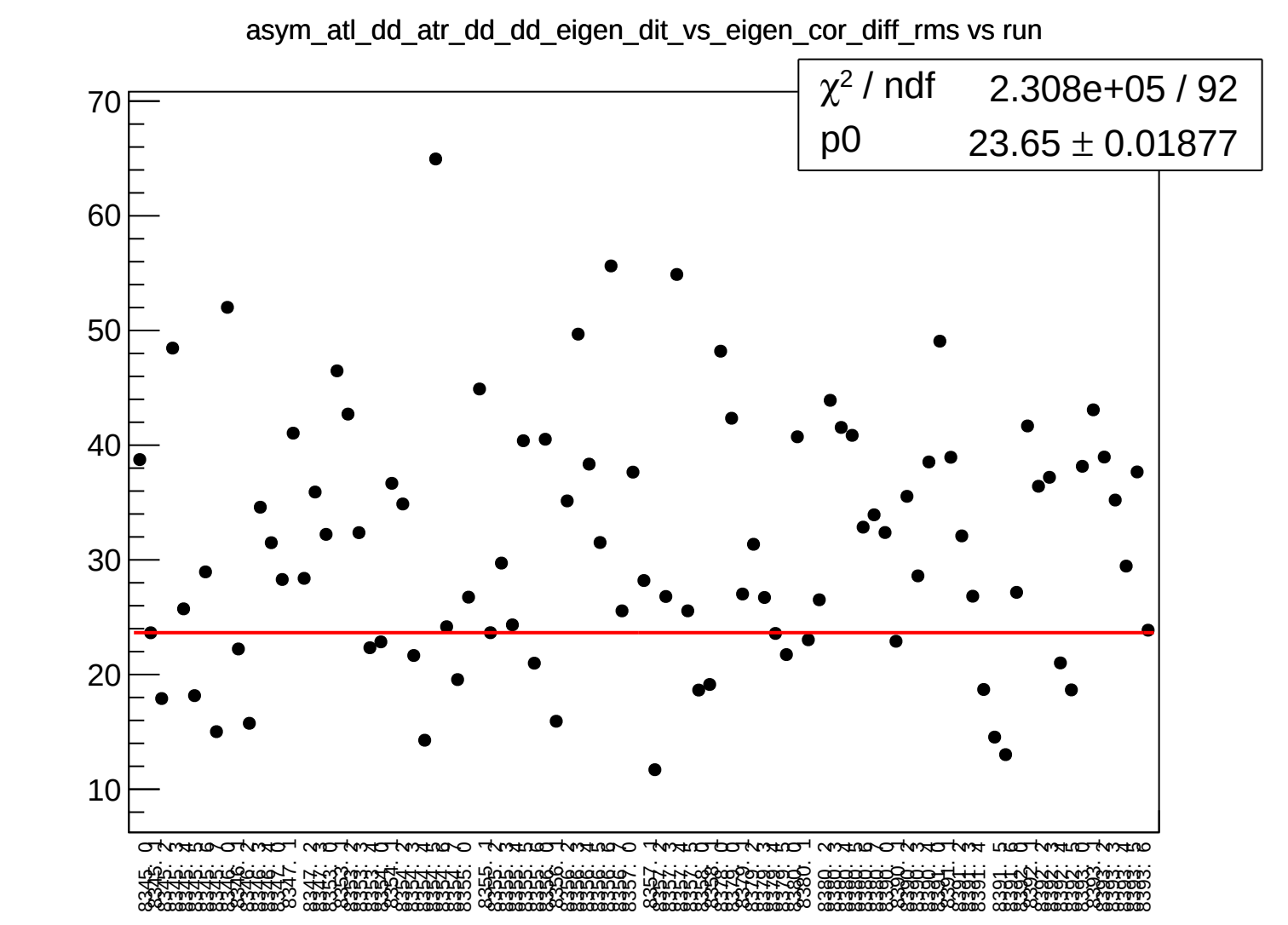

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.77 / 92
p0 −0.03904 ± 0.02654
pull
Entries 93
Mean 2238
Std Dev 0

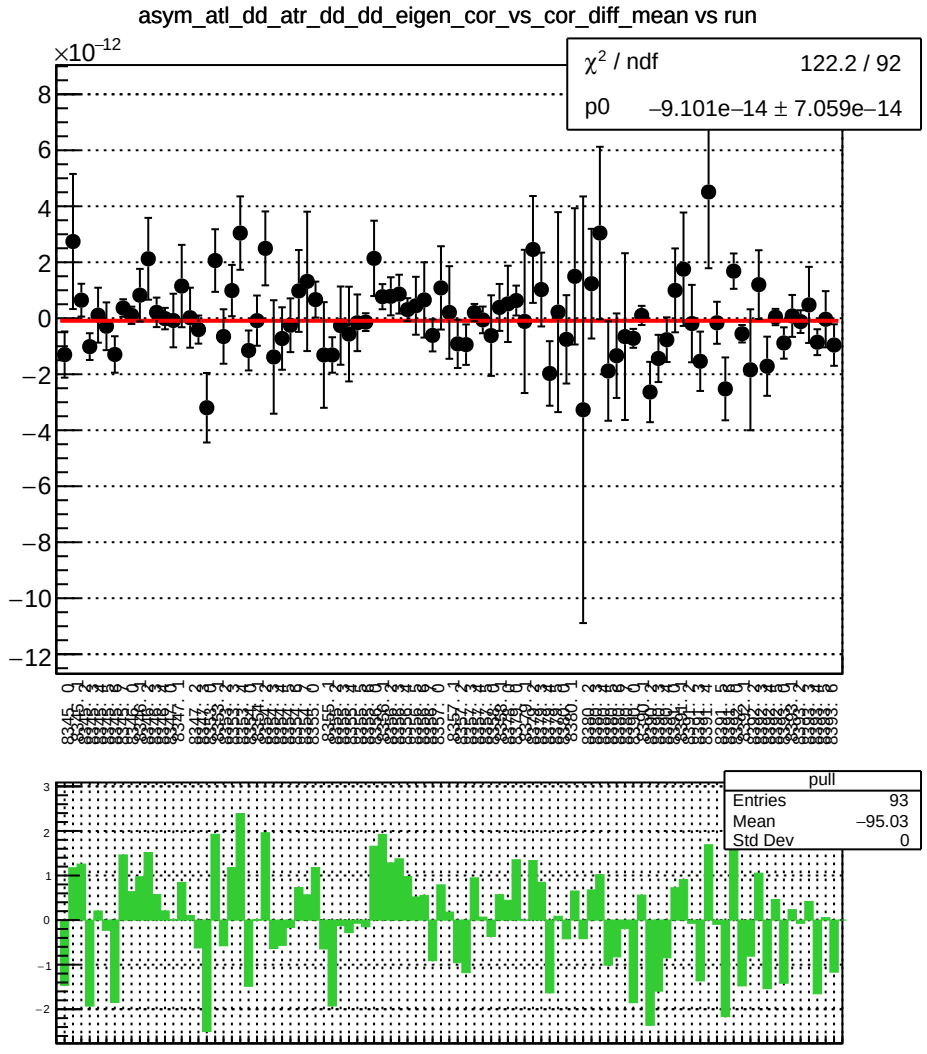

pull1D
Entries 93
Mean 0.001053
Std Dev 0.9825

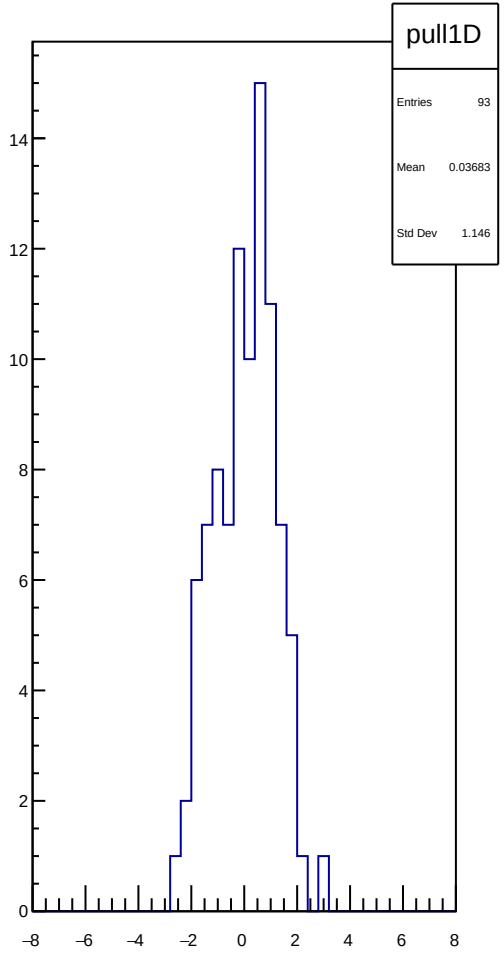

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.308e+05 / 92
p0 23.65 ± 0.01877
70
60
50
40
30
20
10

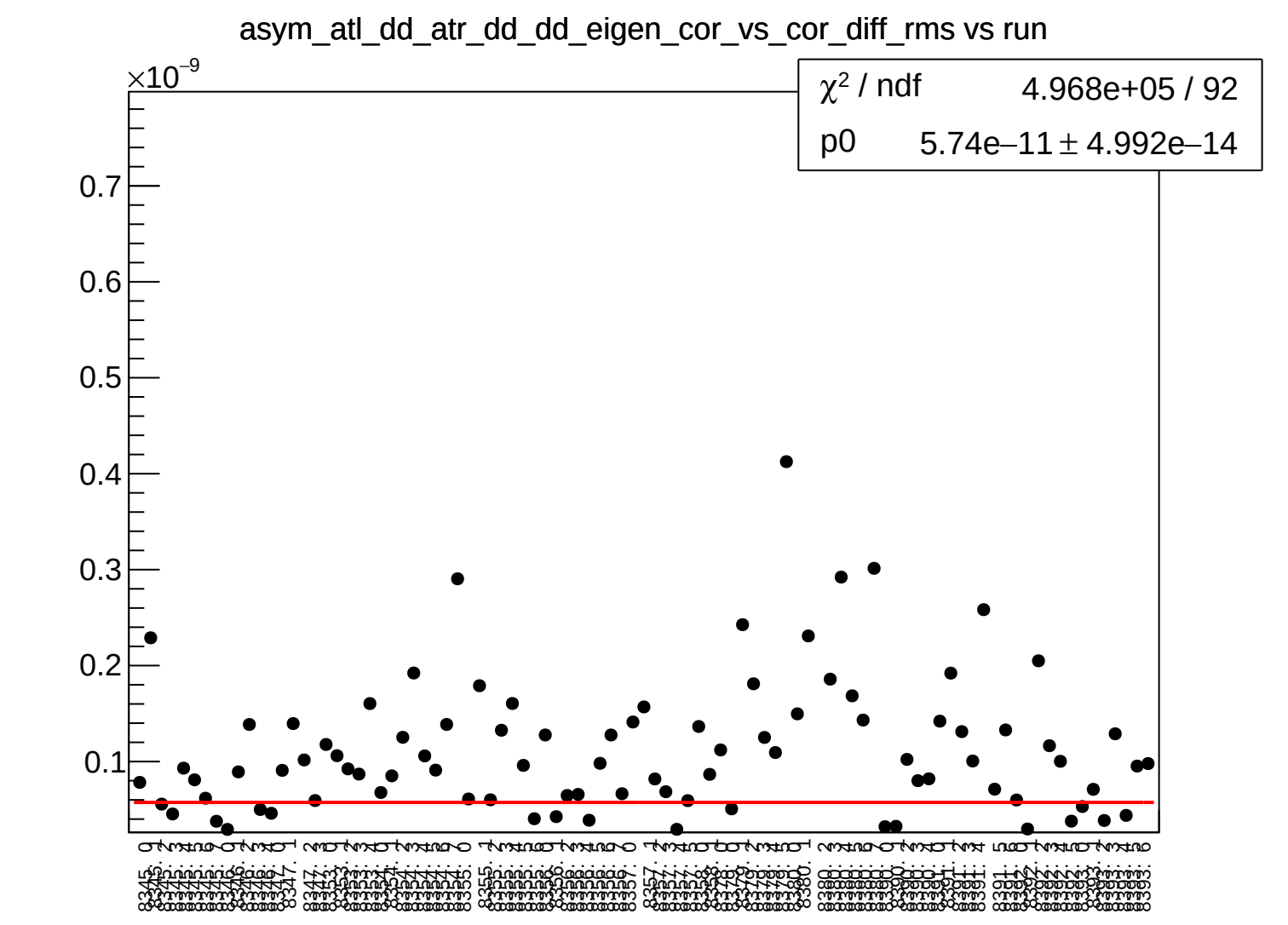

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.77 / 92
p0 −0.03904 ± 0.02654
pull
Entries 93
Mean 2238
Std Dev 0

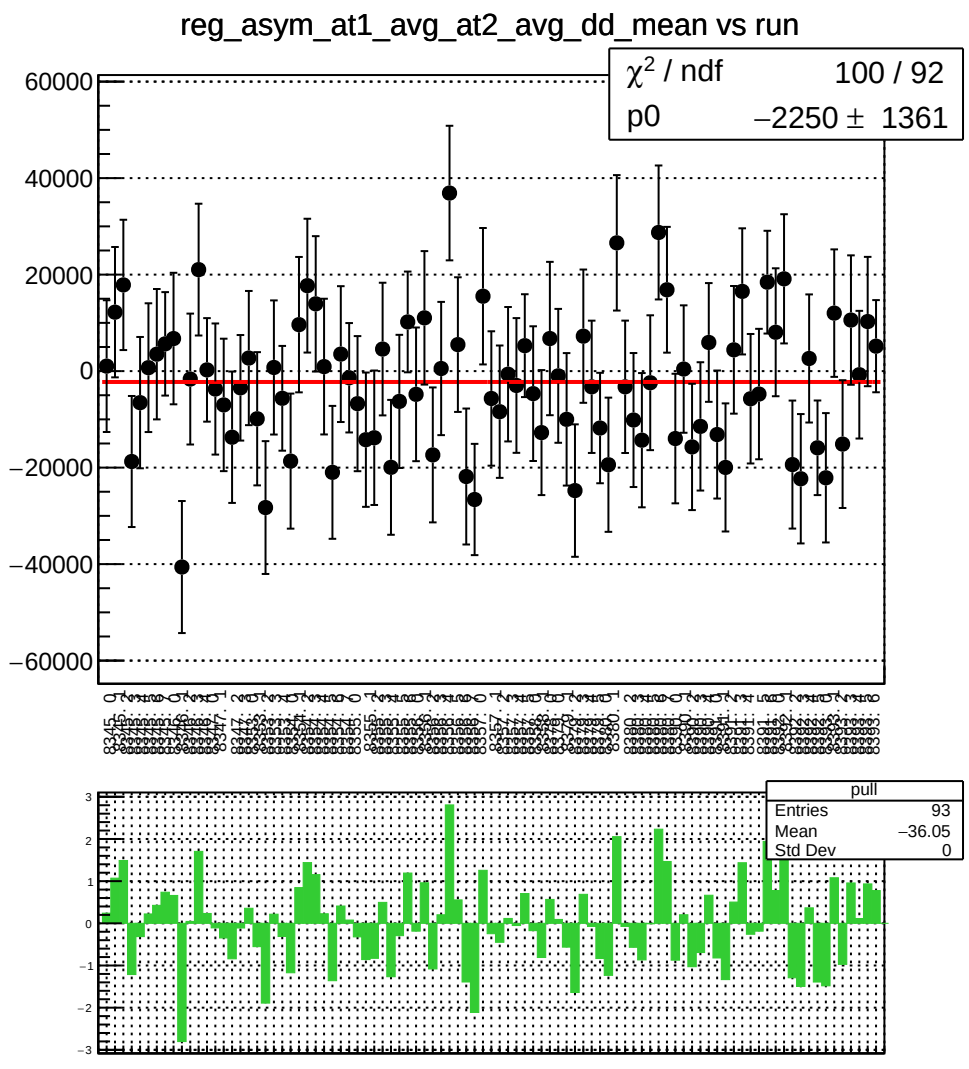

pull1D
Entries 93
Mean 0.001053
Std Dev 0.9825

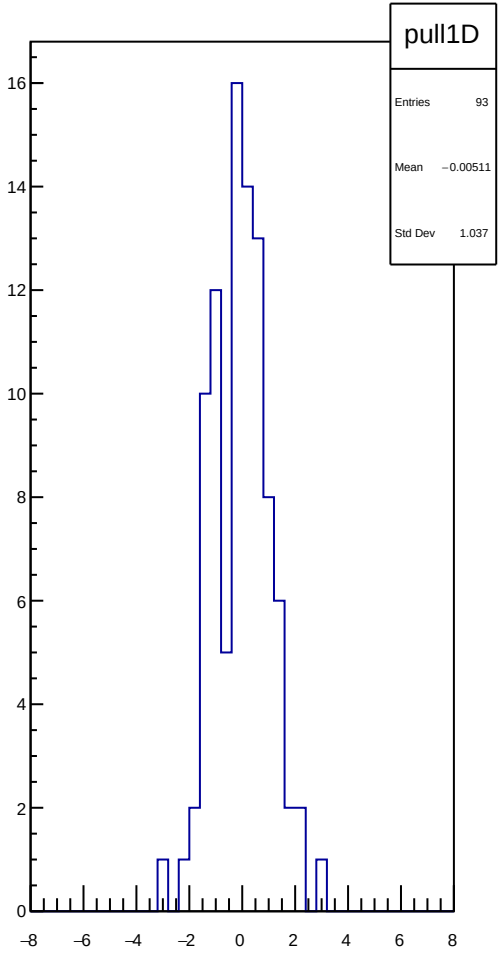

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.308e+05 / 92
p0 23.65 ± 0.01877
70
60
50
40
30
20
10

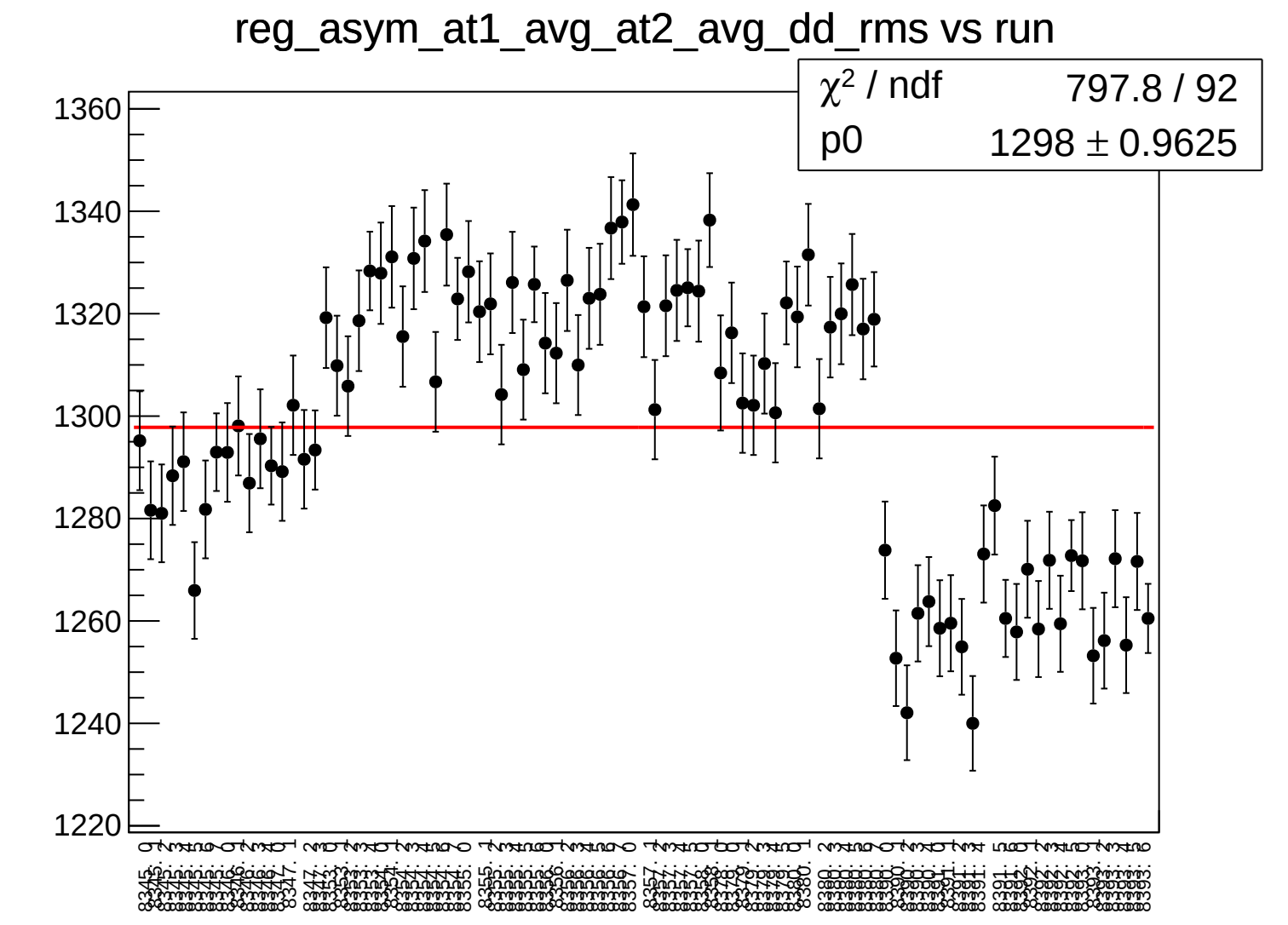

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 122.2 / 92
p0 −9.101e−14 ± 7.059e−14
pull
Entries 93
Mean −95.03
Std Dev 0

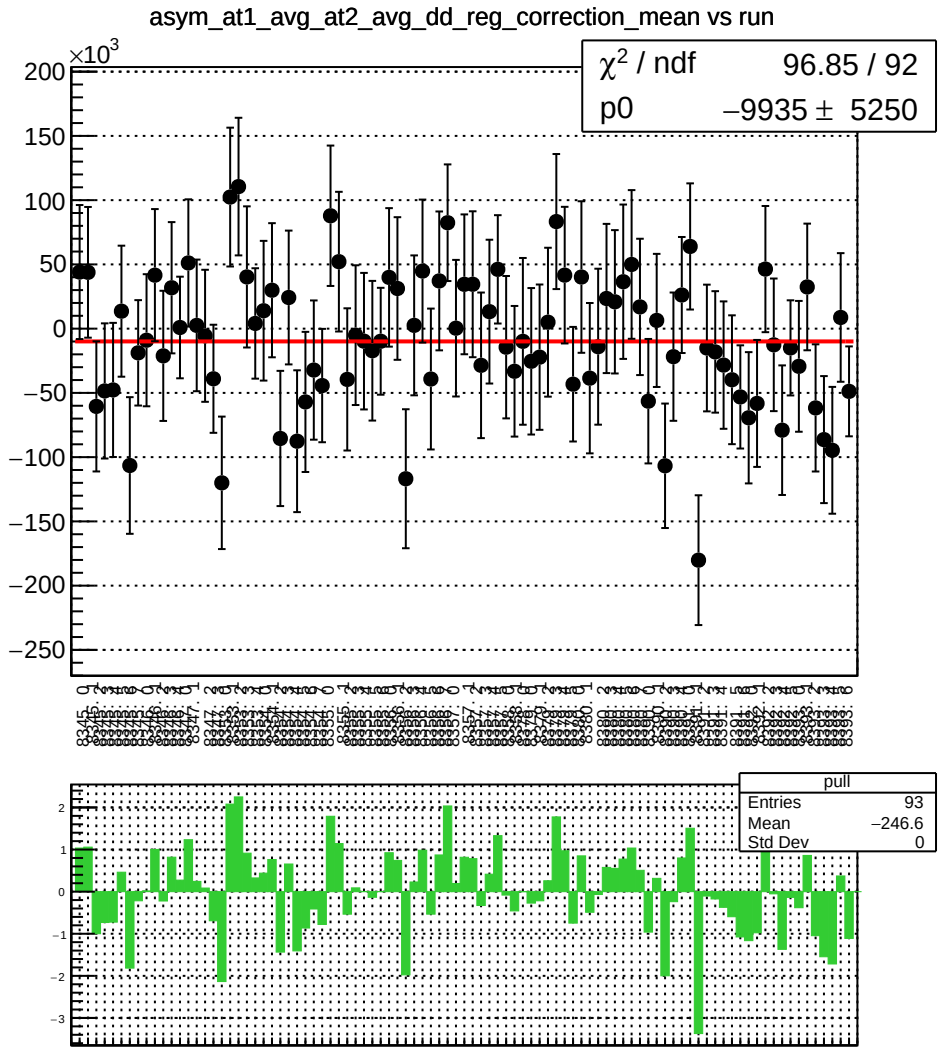

pull1D
Entries 93
Mean 0.03683
Std Dev 1.146

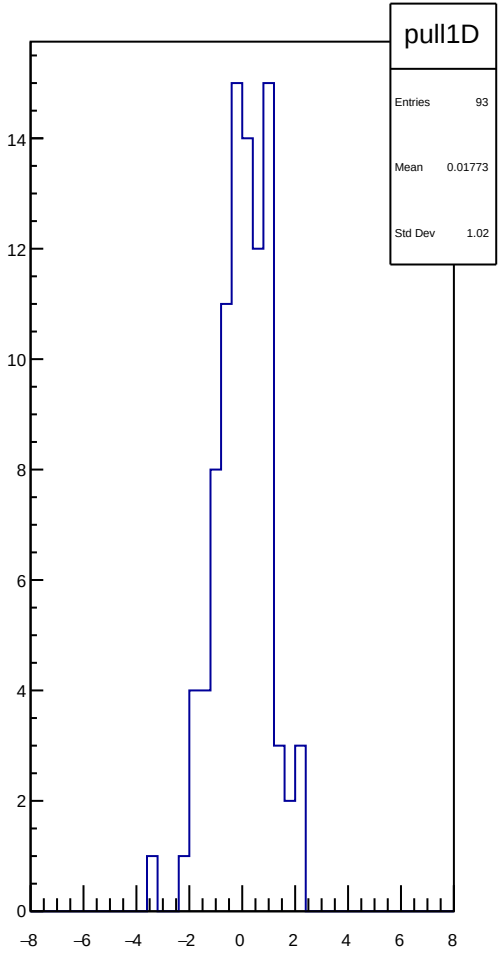

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.968e+05 / 92
p0 5.74e−11 ± 4.992e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

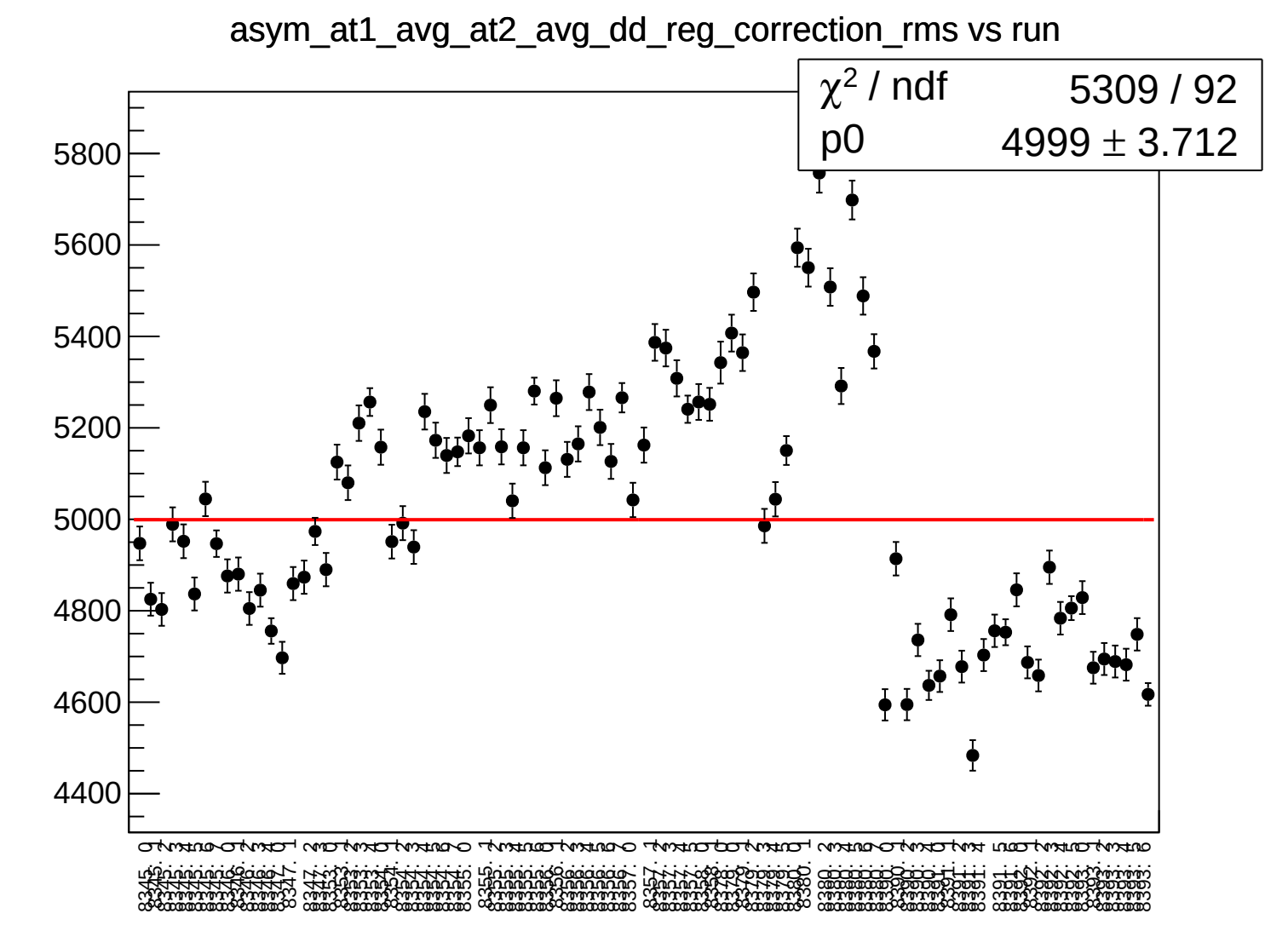

reg_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 100 / 92
p0 −2250 ± 1361
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −36.05
Std Dev 0
3
2
1
0
−1
−2
−3

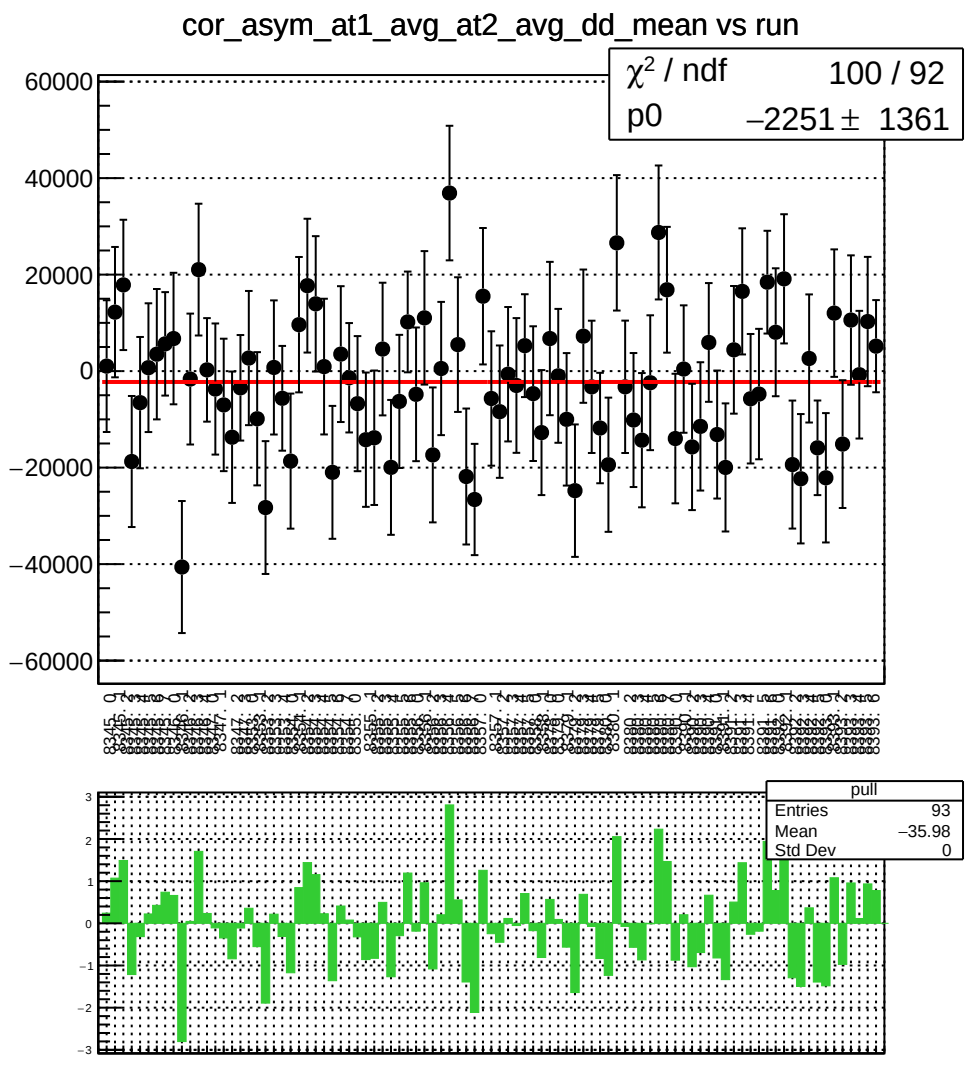

pull1D
Entries 93
Mean −0.00511
Std Dev 1.037
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

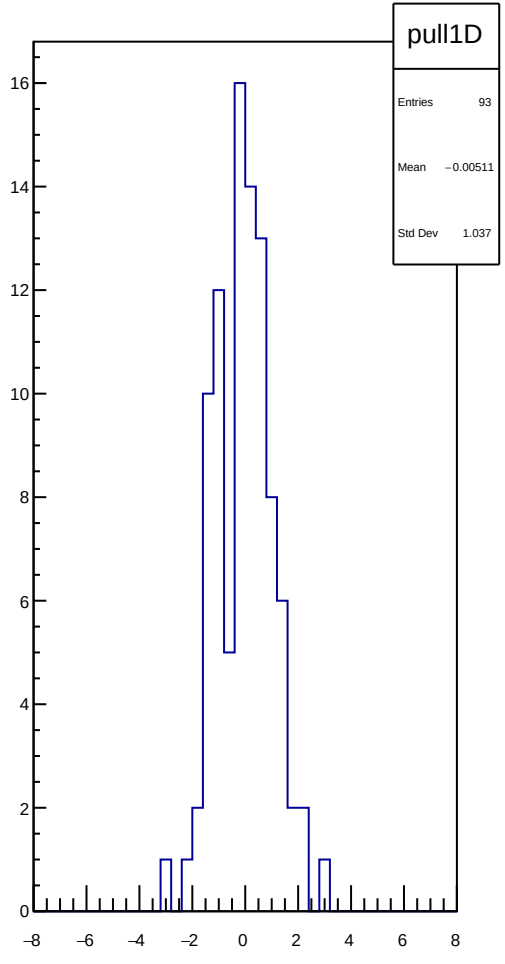

reg_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 797.8 / 92
p0 1298 ± 0.9625
1360
1340
1320
1300
1280
1260
1240
1220

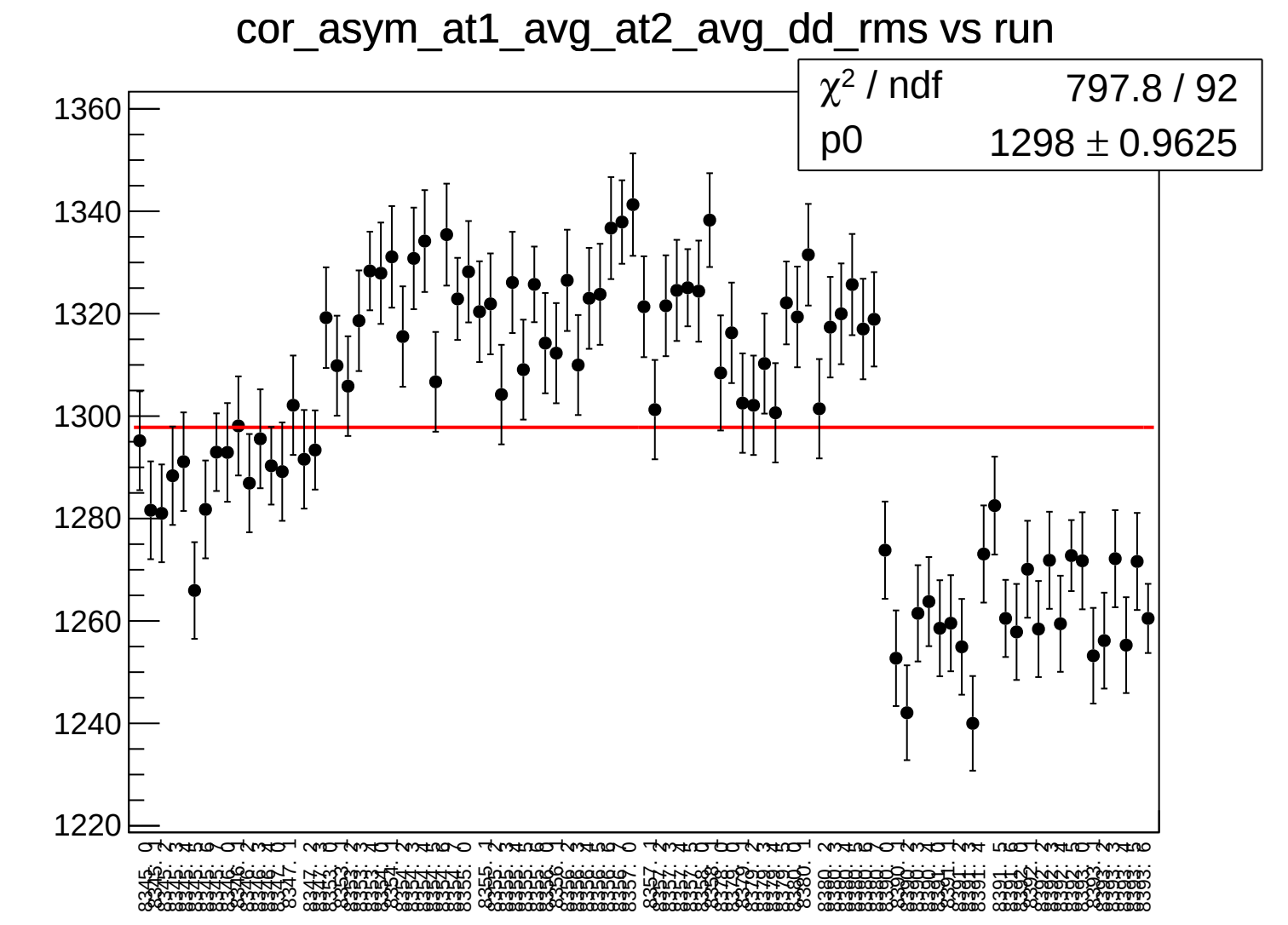

asym_at1_avg_at2_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 96.85 / 92
p0 −9935 ± 5250
pull
Entries 93
Mean −246.6
Std Dev 0

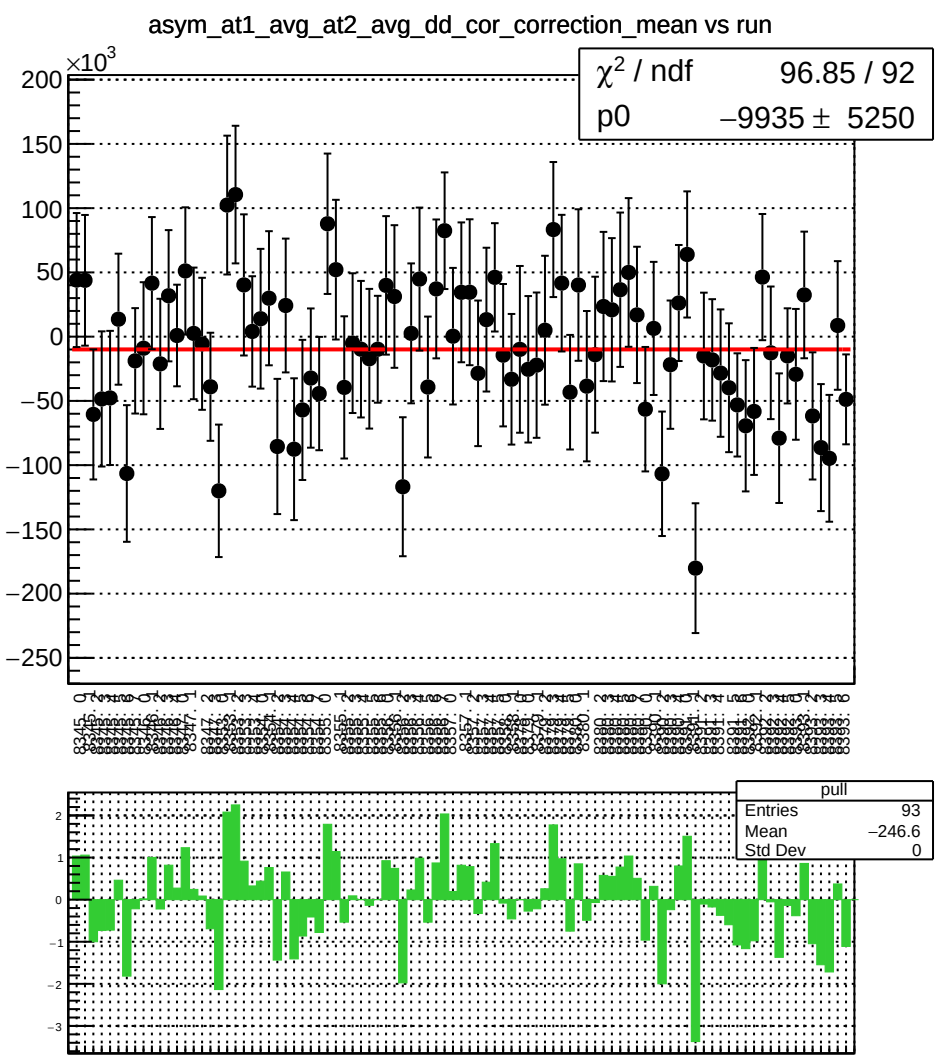

pull1D
Entries 93
Mean 0.01773
Std Dev 1.02

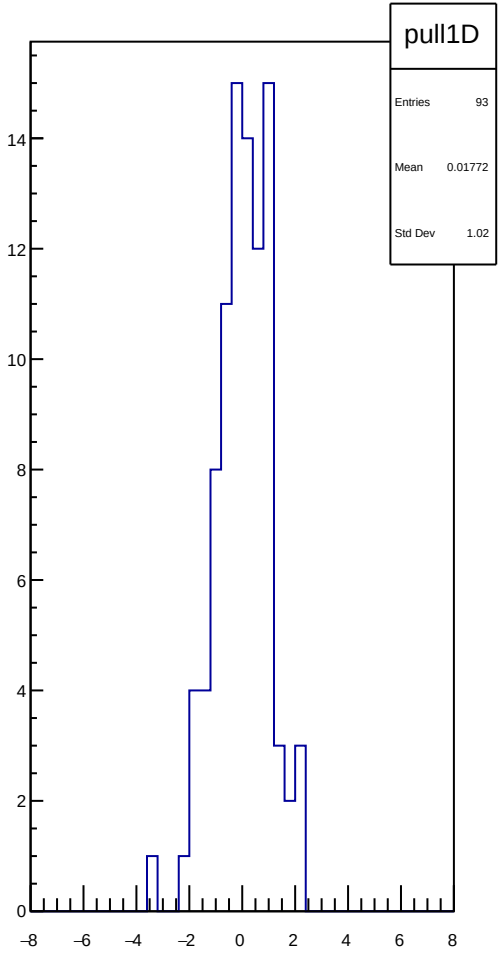

asym_at1_avg_at2_avg_dd_reg_correction_rms vs run
χ² / ndf 5309 / 92
p0 4999 ± 3.712
5800
5600
5400
5200
5000
4800
4600
4400

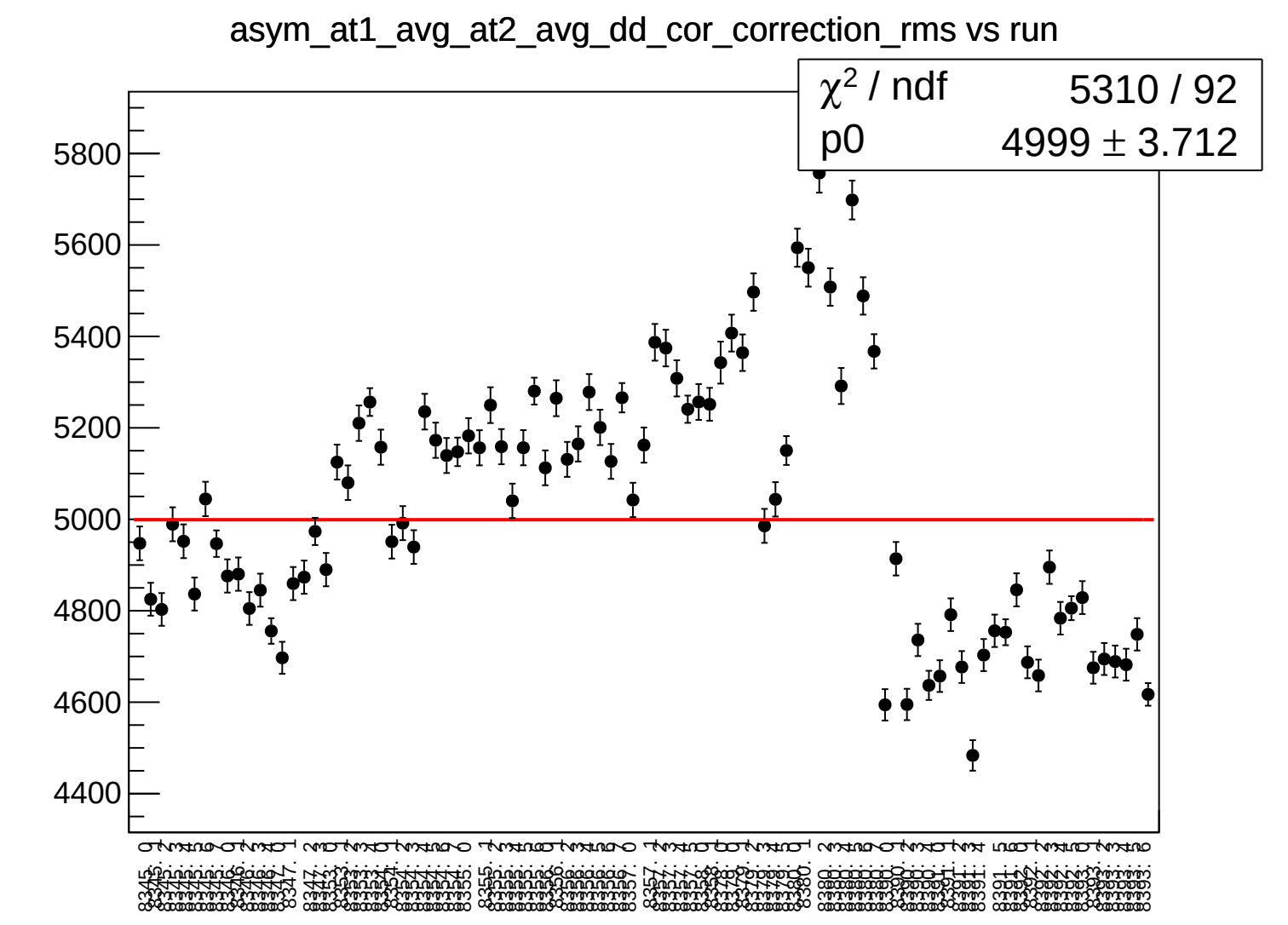

cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 100 / 92
p0 −2251 ± 1361
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −35.98
Std Dev 0
3
2
1
0
−1
−2
−3

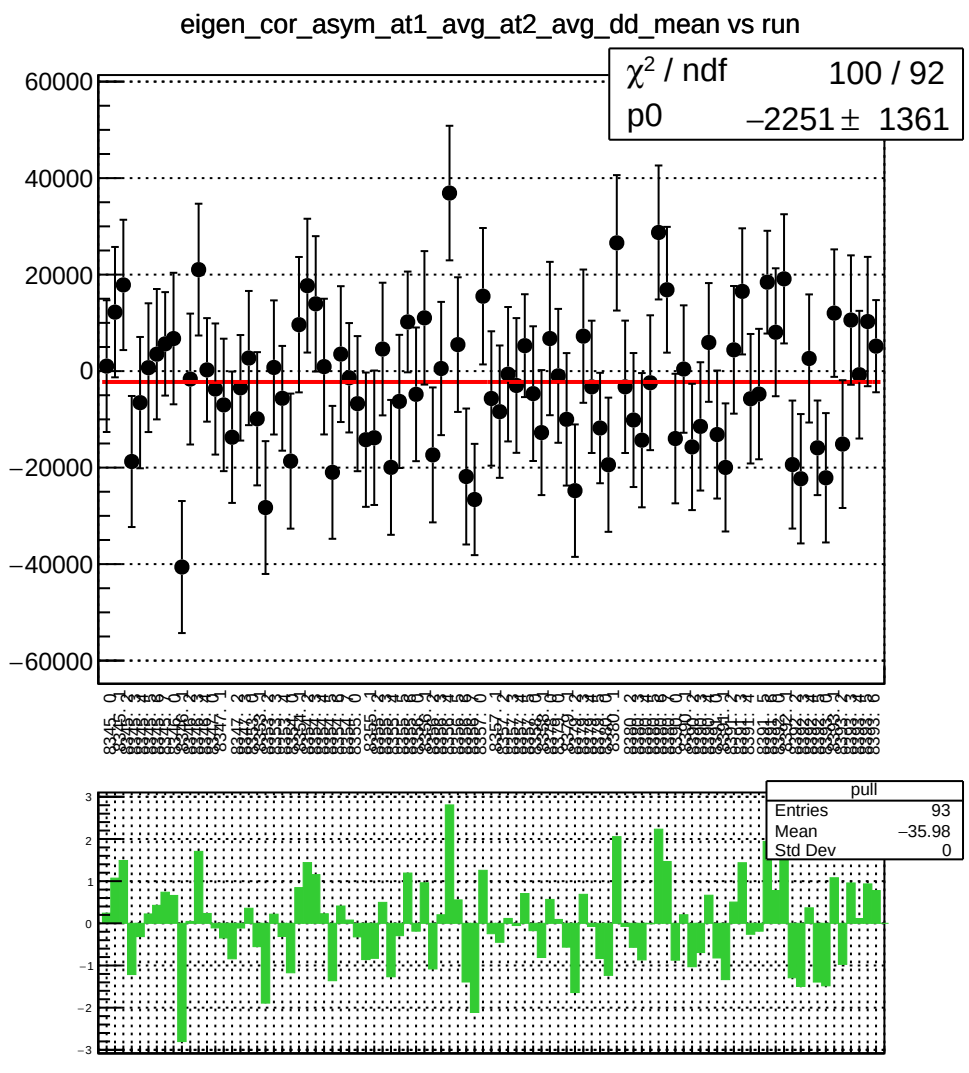

pull1D
Entries 93
Mean −0.00511
Std Dev 1.037
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

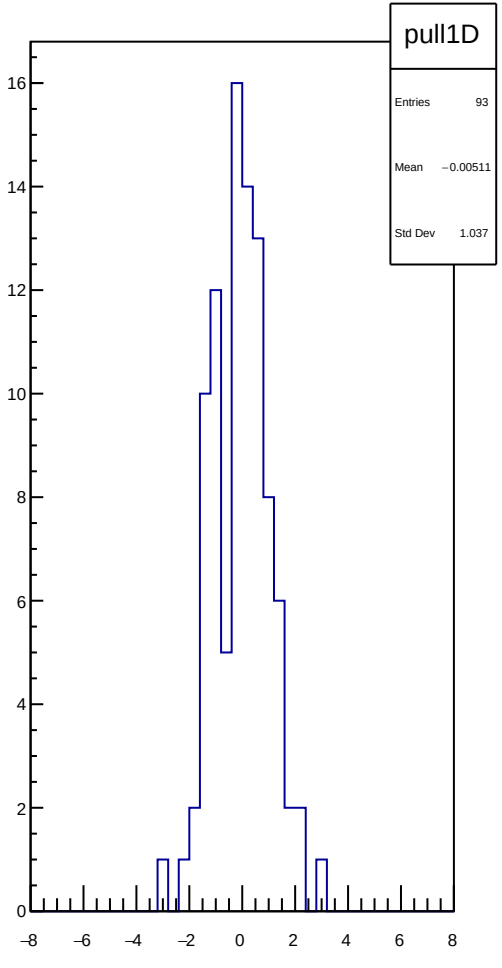

cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 797.8 / 92
p0 1298 ± 0.9625
1360
1340
1320
1300
1280
1260
1240
1220

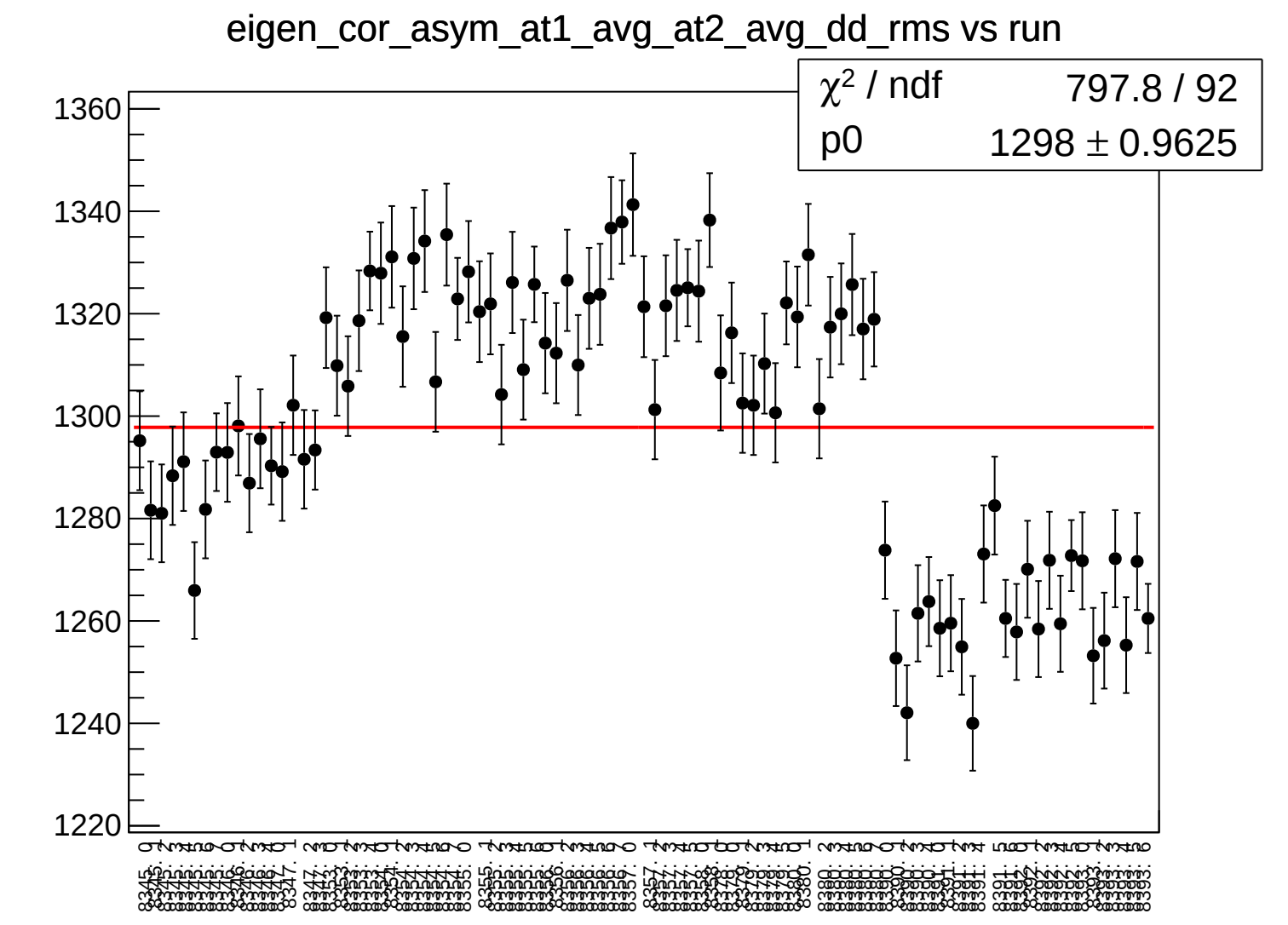

asym_at1_avg_at2_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 96.85 / 92
p0 −9935 ± 5250
pull
Entries 93
Mean −246.6
Std Dev 0

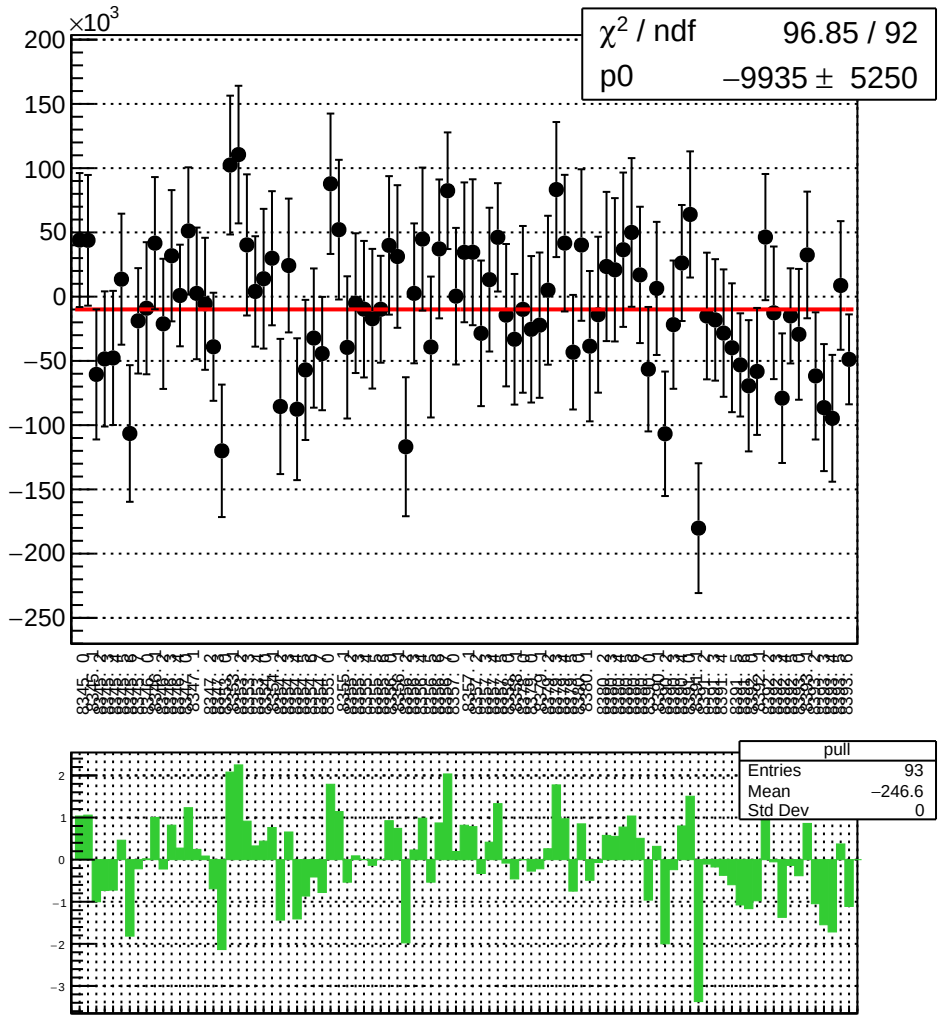

pull1D
Entries 93
Mean 0.01772
Std Dev 1.02

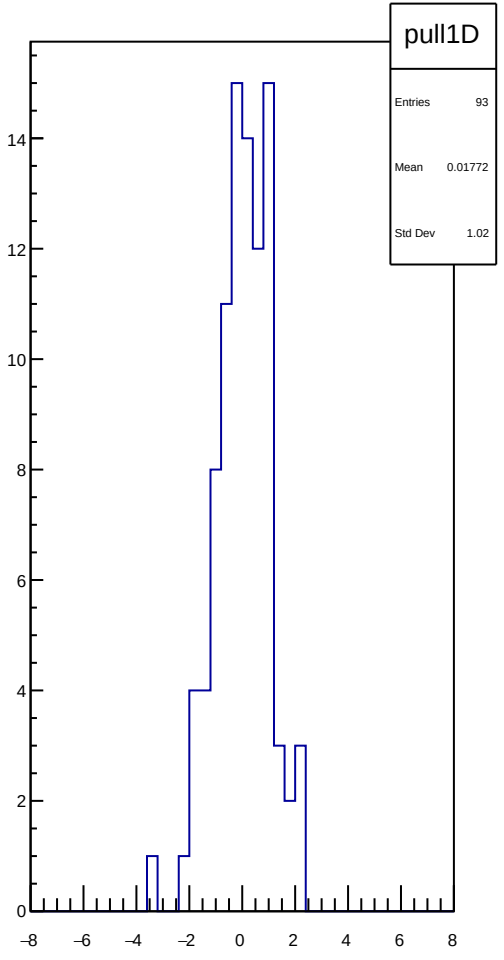

asym_at1_avg_at2_avg_dd_cor_correction_rms vs run
χ² / ndf 5310 / 92
p0 4999 ± 3.712
5800
5600
5400
5200
5000
4800
4600
4400

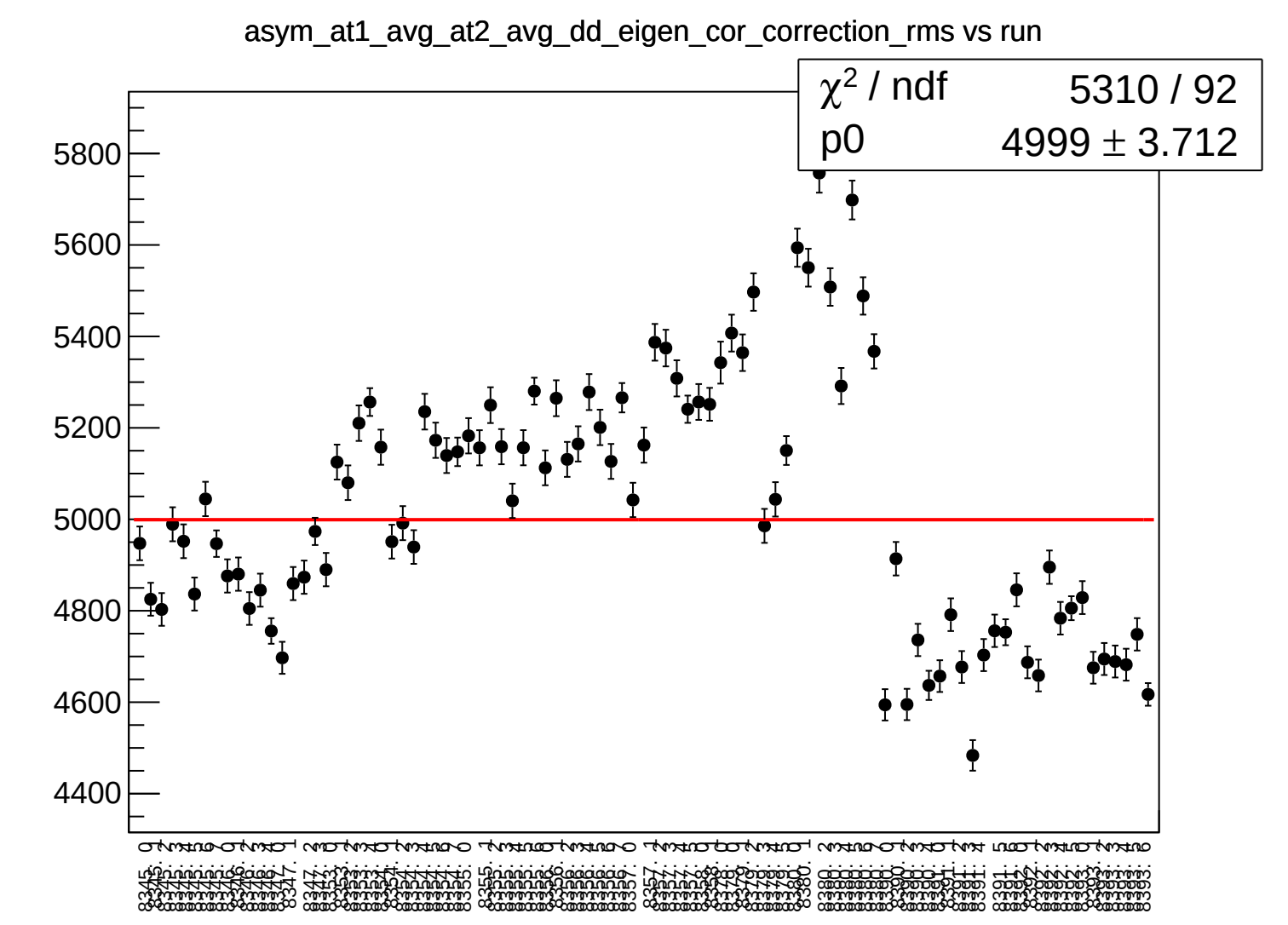

eigen_cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 100 / 92
p0 −2251 ± 1361
pull
Entries 93
Mean −35.98
Std Dev 0

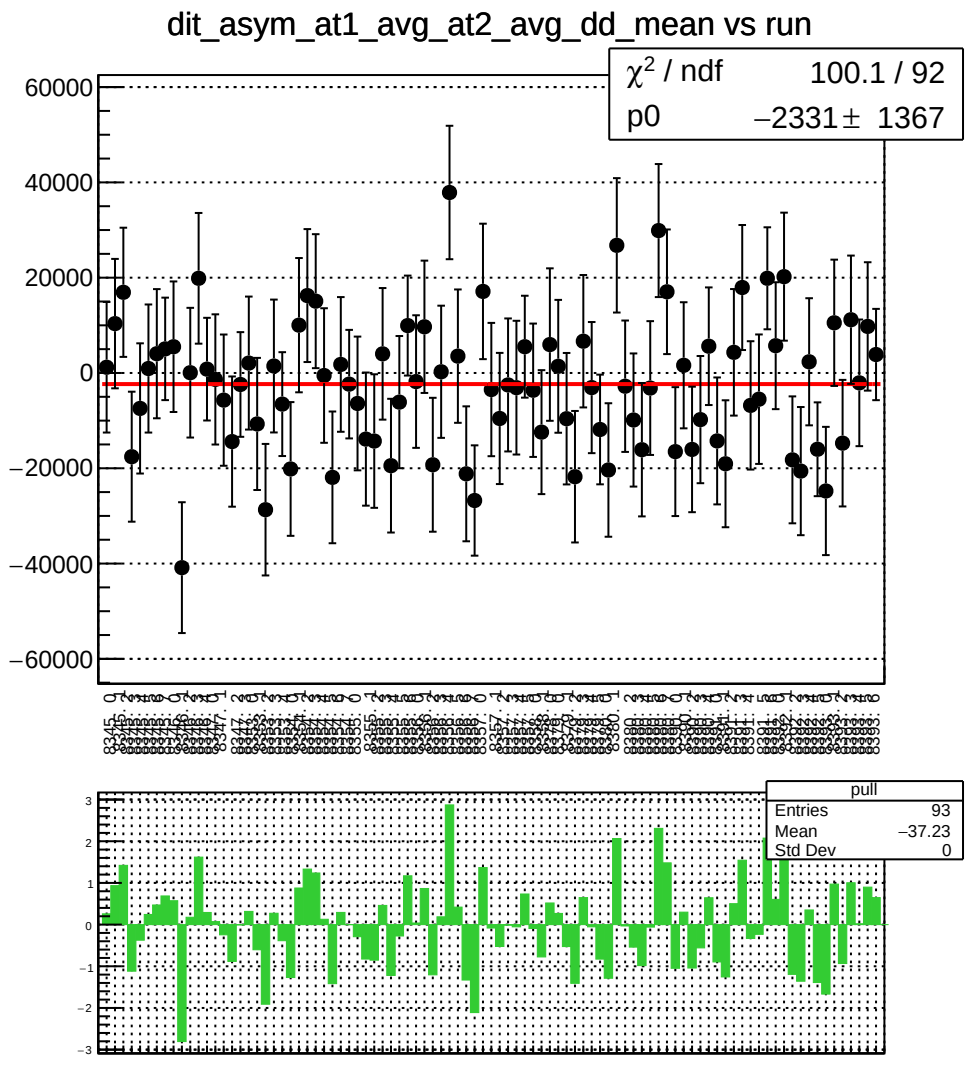

pull1D
Entries 93
Mean −0.00511
Std Dev 1.037

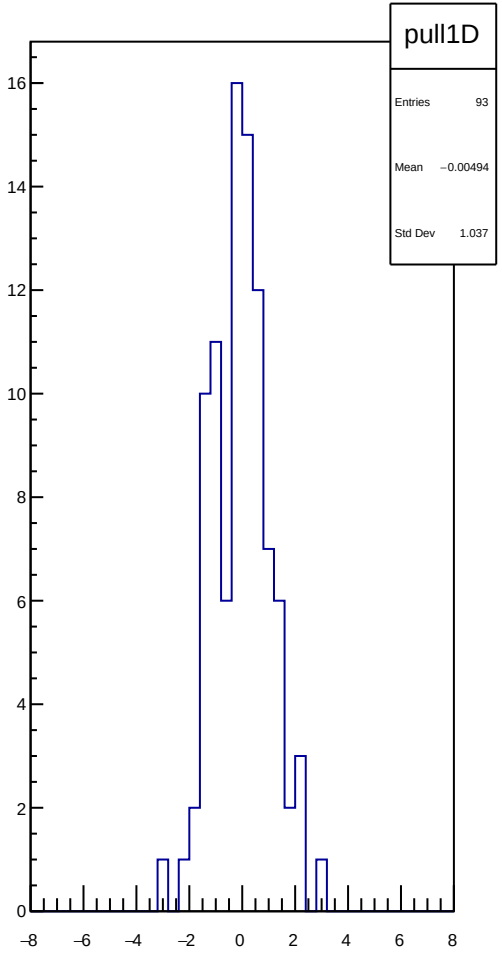

eigen_cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 797.8 / 92
p0 1298 ± 0.9625
1360
1340
1320
1300
1280
1260
1240
1220

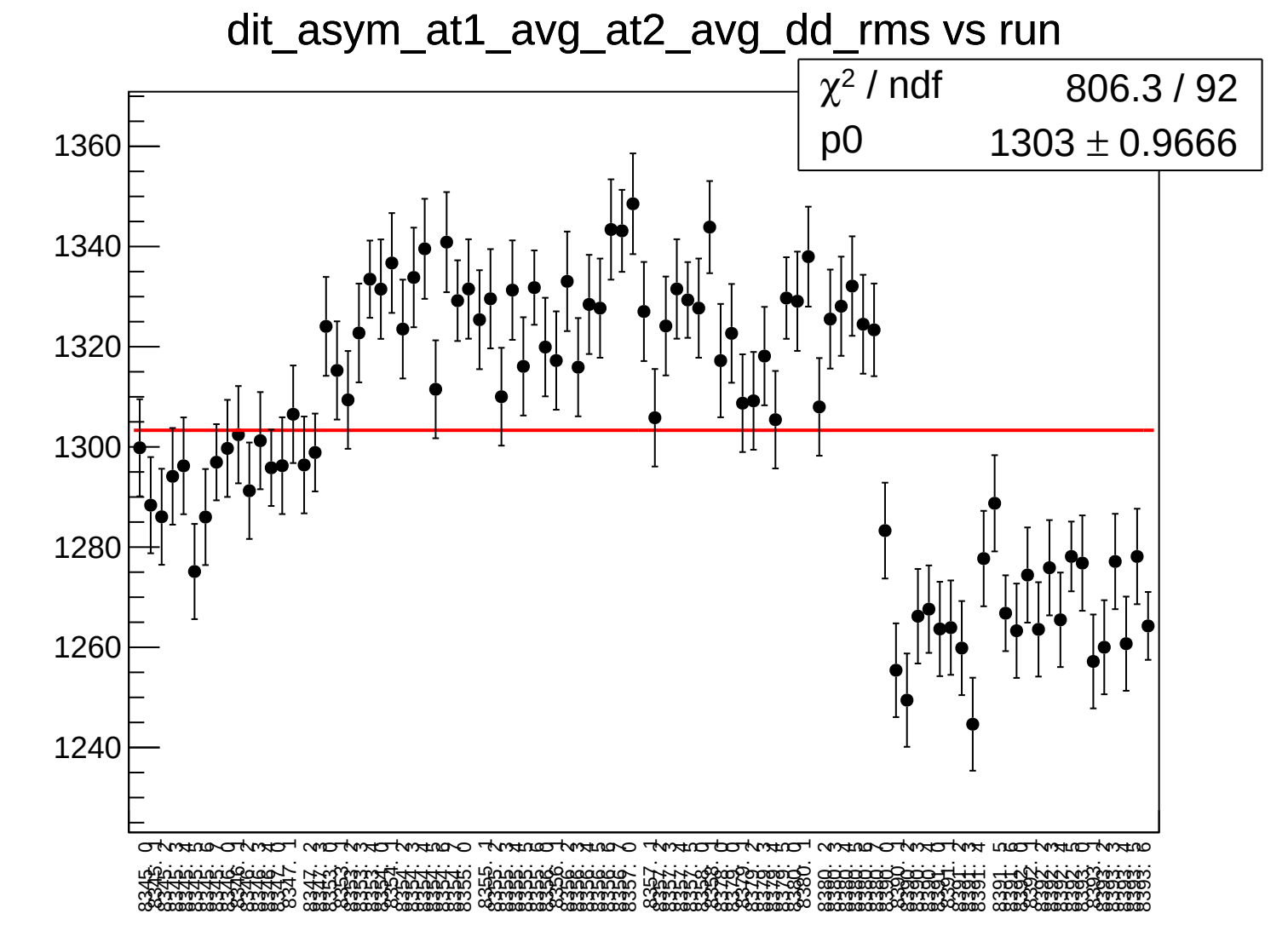

asym_at1_avg_at2_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 96.85 / 92
p0 −9935 ± 5250
pull
Entries 93
Mean −246.6
Std Dev 0

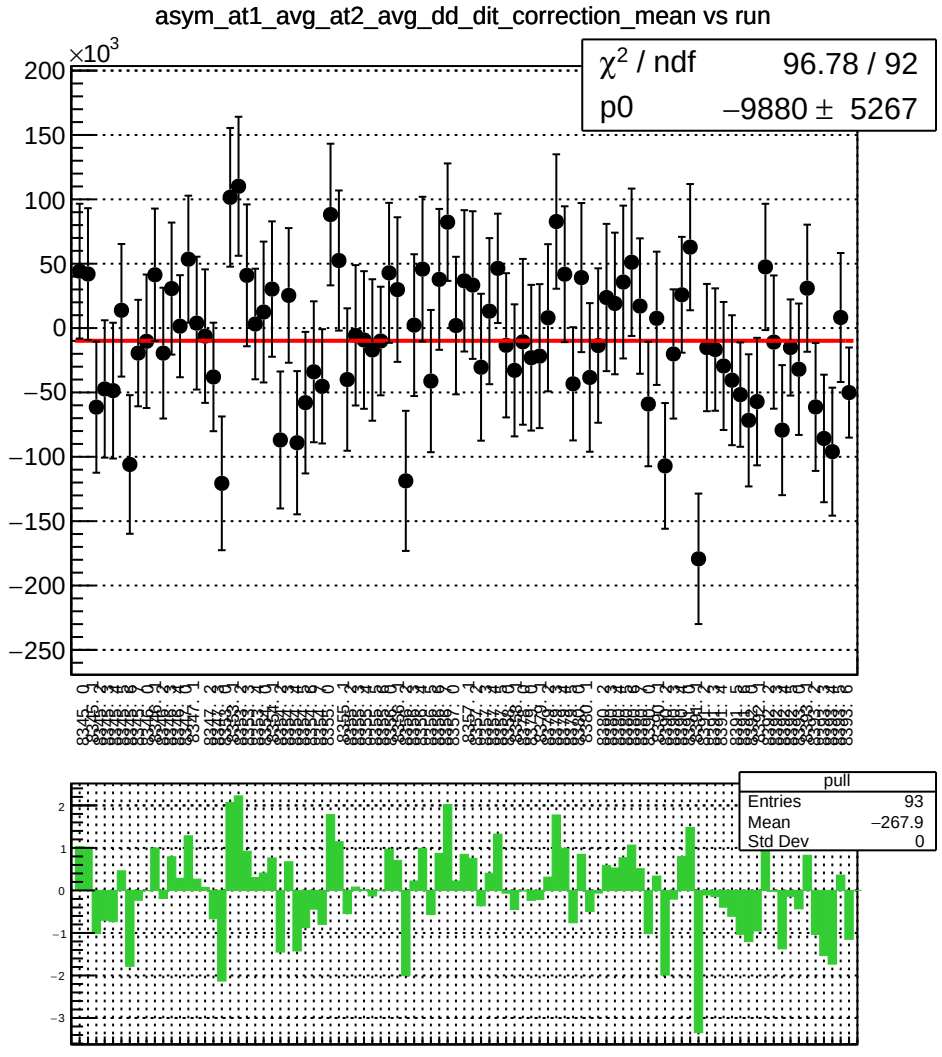

pull1D
Entries 93
Mean 0.01772
Std Dev 1.02

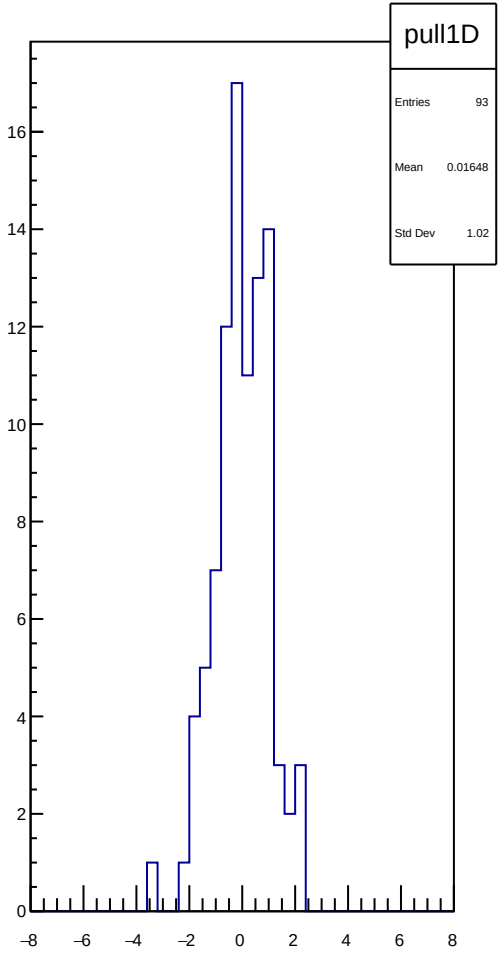

asym_at1_avg_at2_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 5310 / 92
p0 4999 ± 3.712
5800
5600
5400
5200
5000
4800
4600
4400

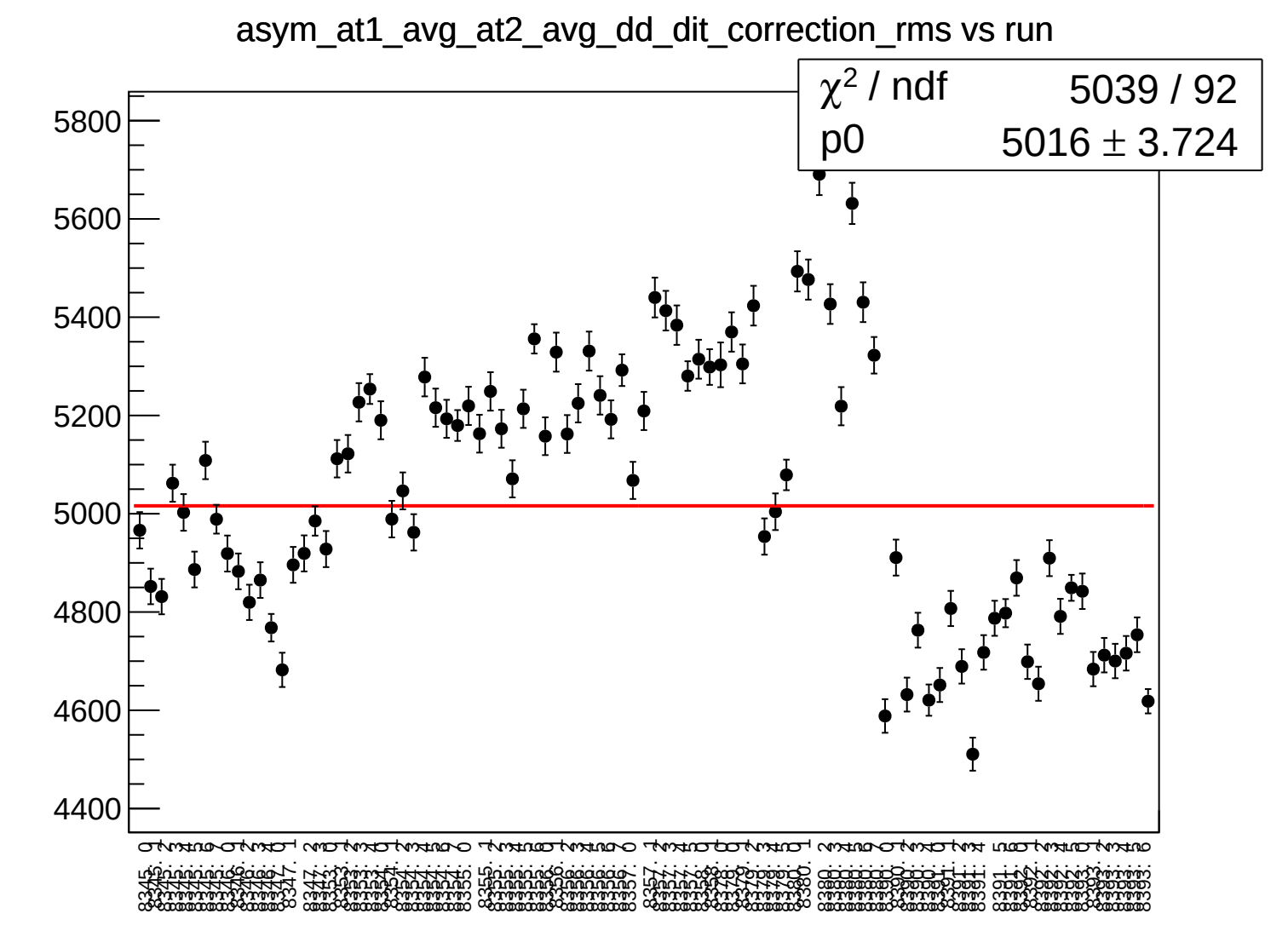

dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 100.1 / 92
p0 −2331 ± 1367
pull
Entries 93
Mean −37.23
Std Dev 0

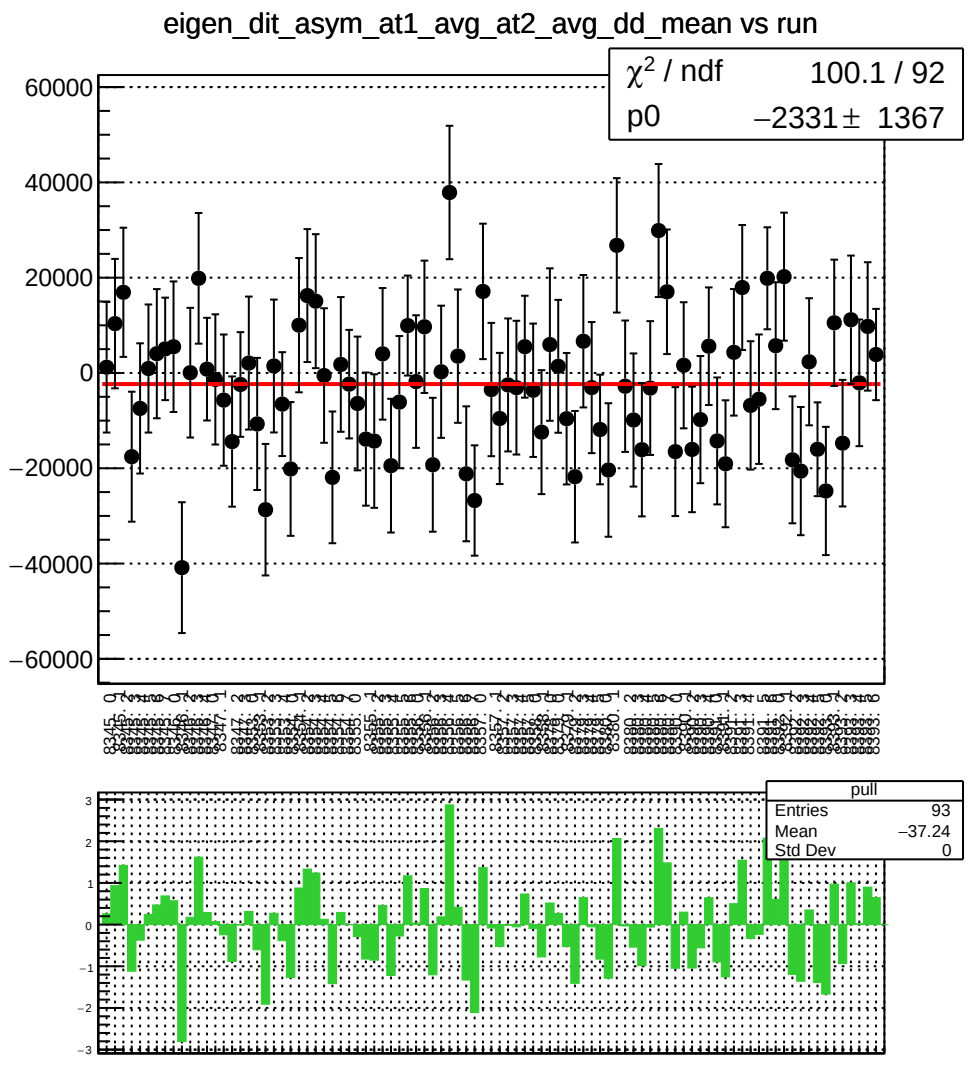

pull1D
Entries 93
Mean −0.00494
Std Dev 1.037

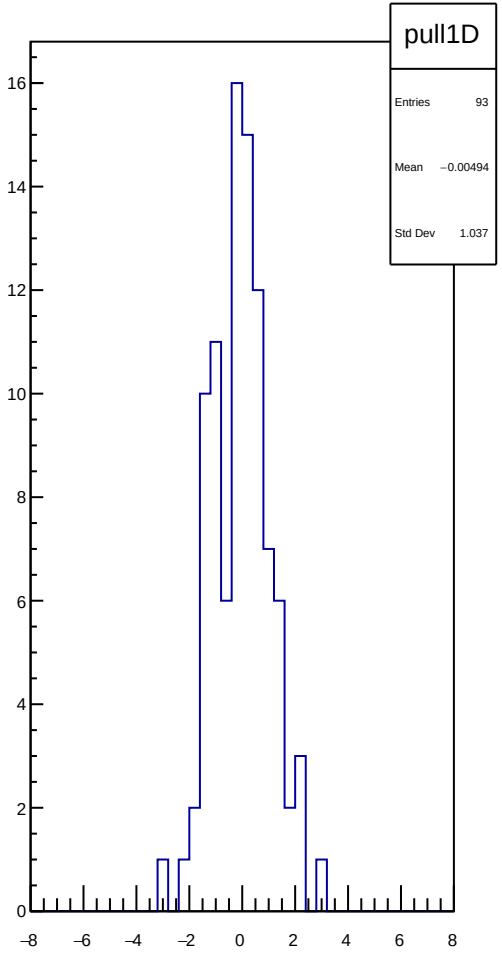

dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 806.3 / 92
p0 1303 ± 0.9666
1360
1340
1320
1300
1280
1260
1240

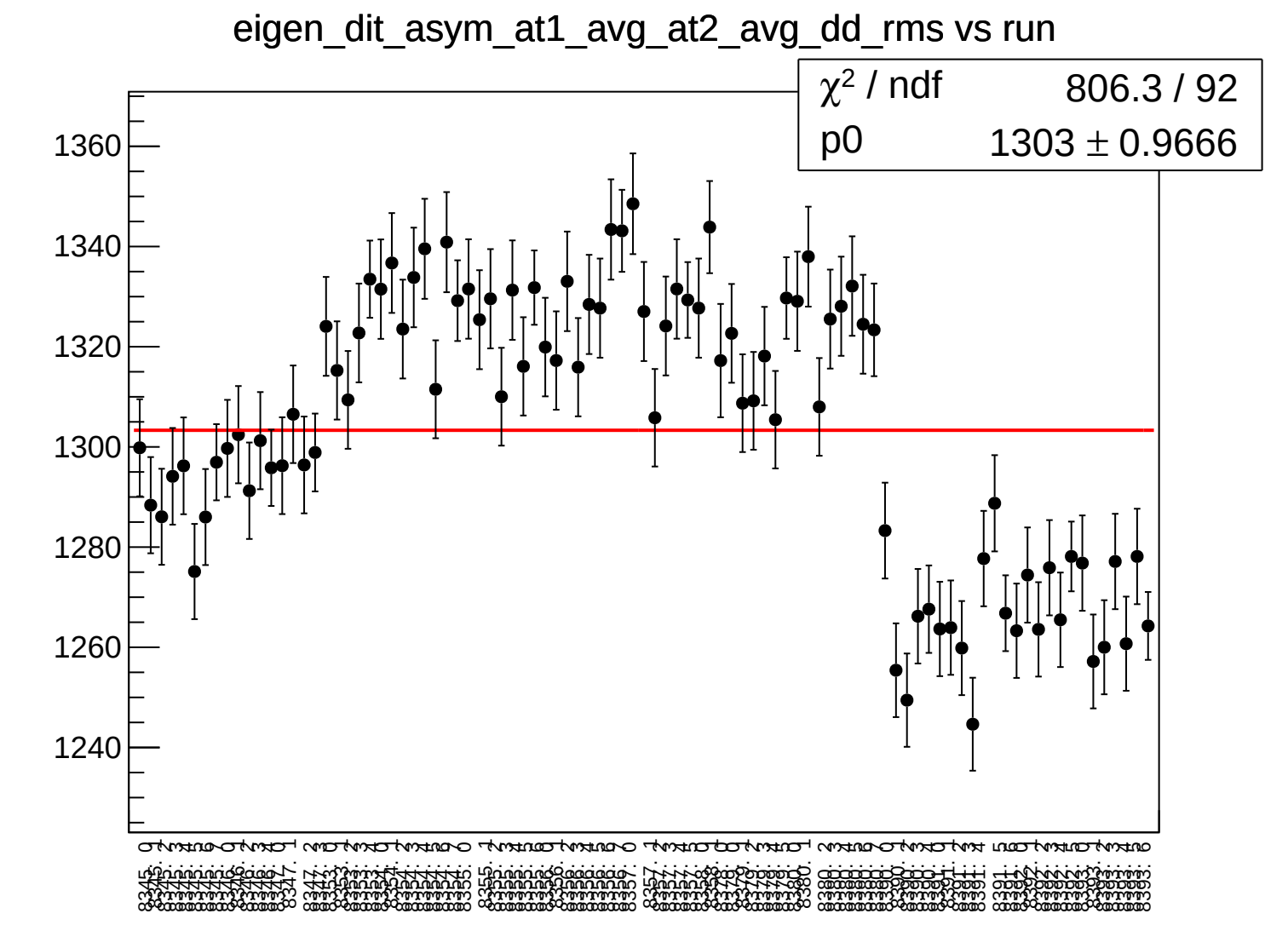

asym_at1_avg_at2_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 96.78 / 92
p0 −9880 ± 5267
pull
Entries 93
Mean −267.9
Std Dev 0

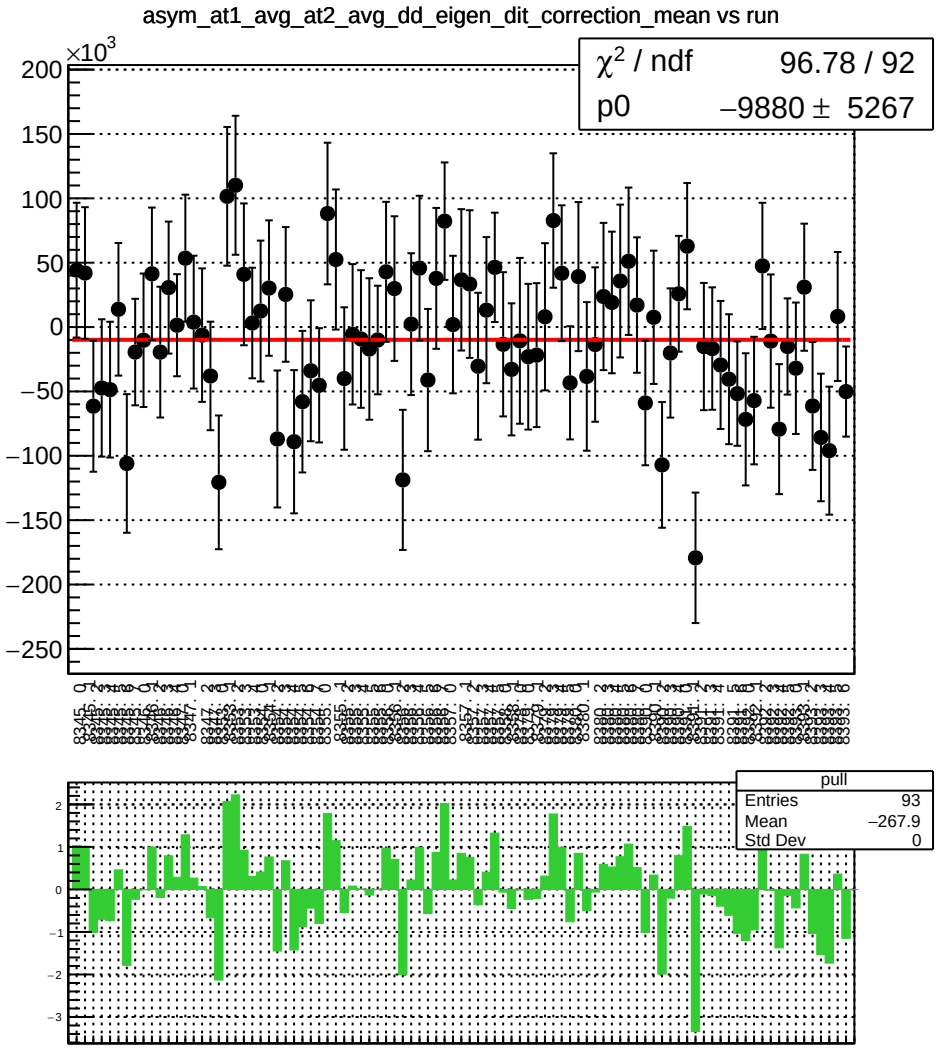

pull1D
Entries 93
Mean 0.01648
Std Dev 1.02

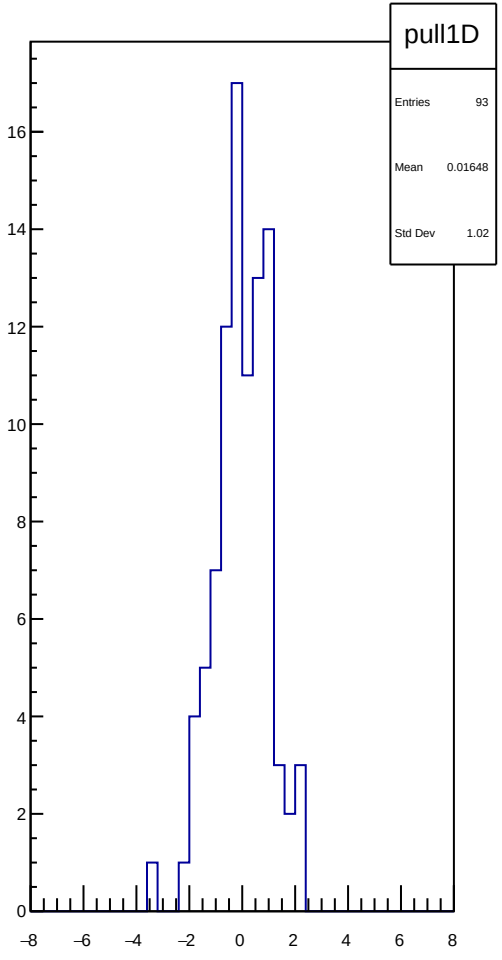

asym_at1_avg_at2_avg_dd_dit_correction_rms vs run
χ² / ndf 5039 / 92
p0 5016 ± 3.724
5800
5600
5400
5200
5000
4800
4600
4400

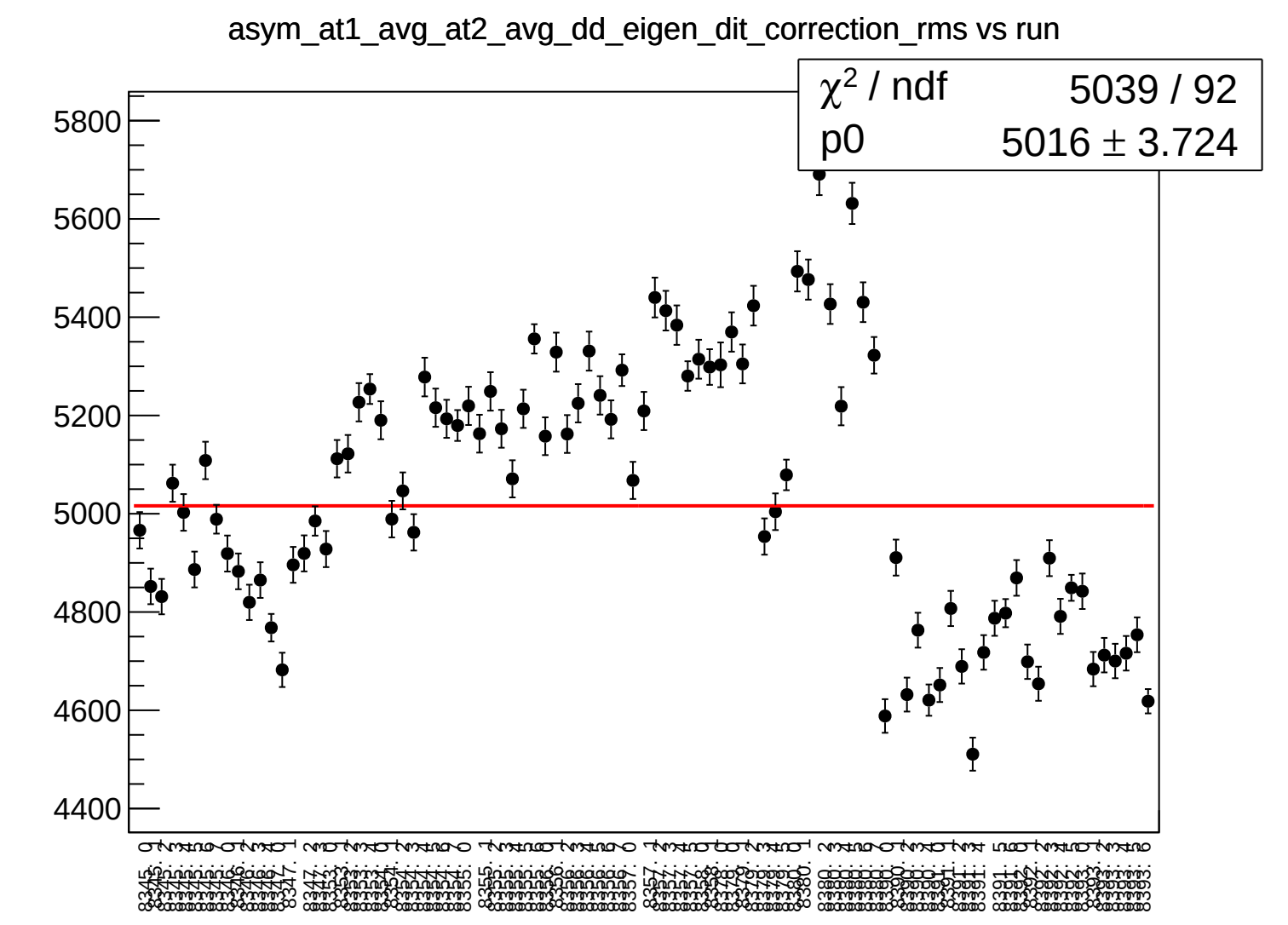

eigen_dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 100.1 / 92
p0 −2331 ± 1367
pull
Entries 93
Mean −37.24
Std Dev 0

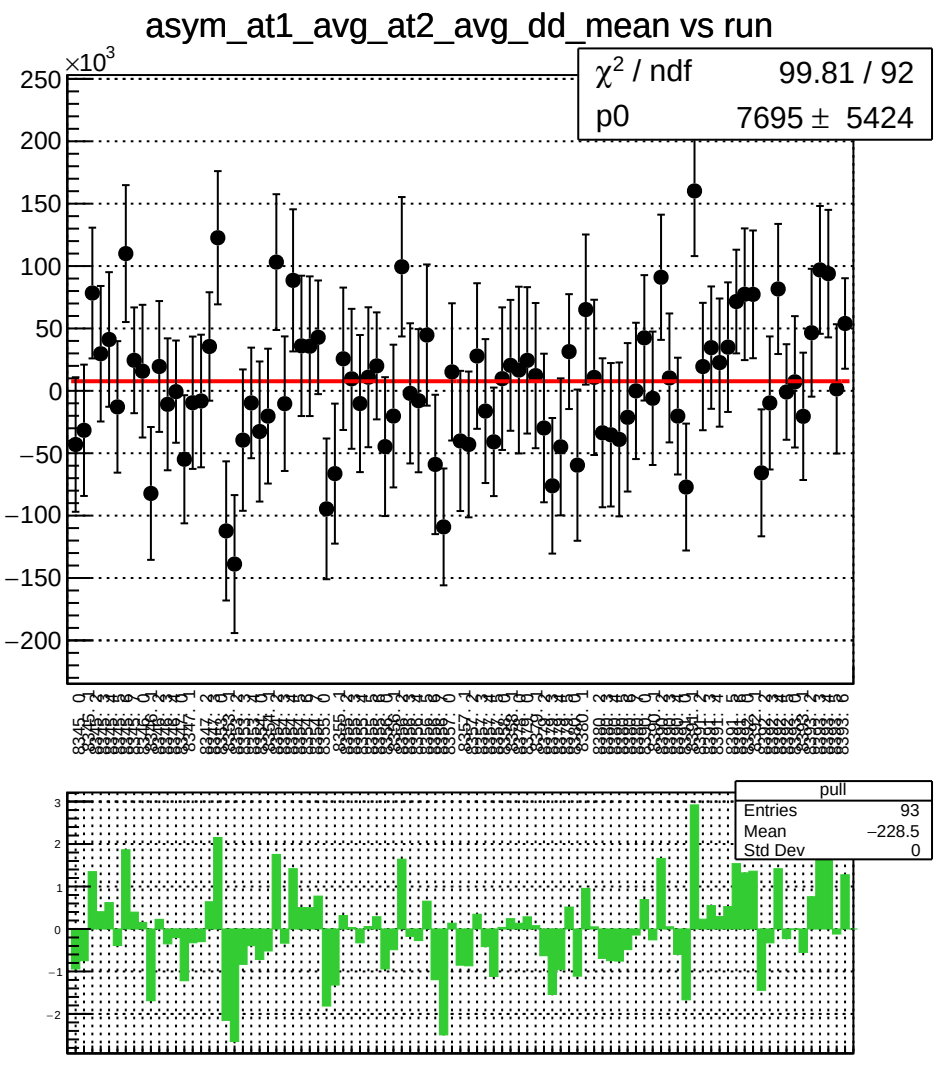

pull1D
Entries 93
Mean −0.00494
Std Dev 1.037

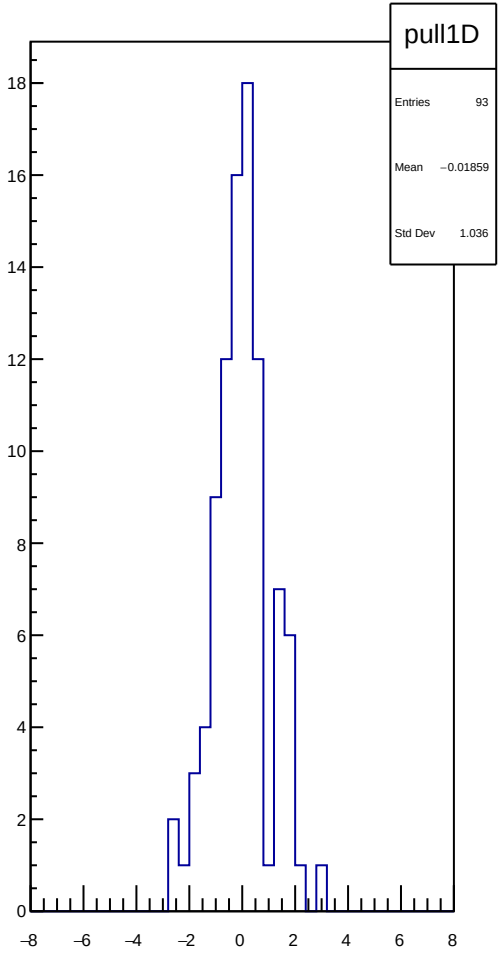

eigen_dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 806.3 / 92
p0 1303 ± 0.9666
1360
1340
1320
1300
1280
1260
1240

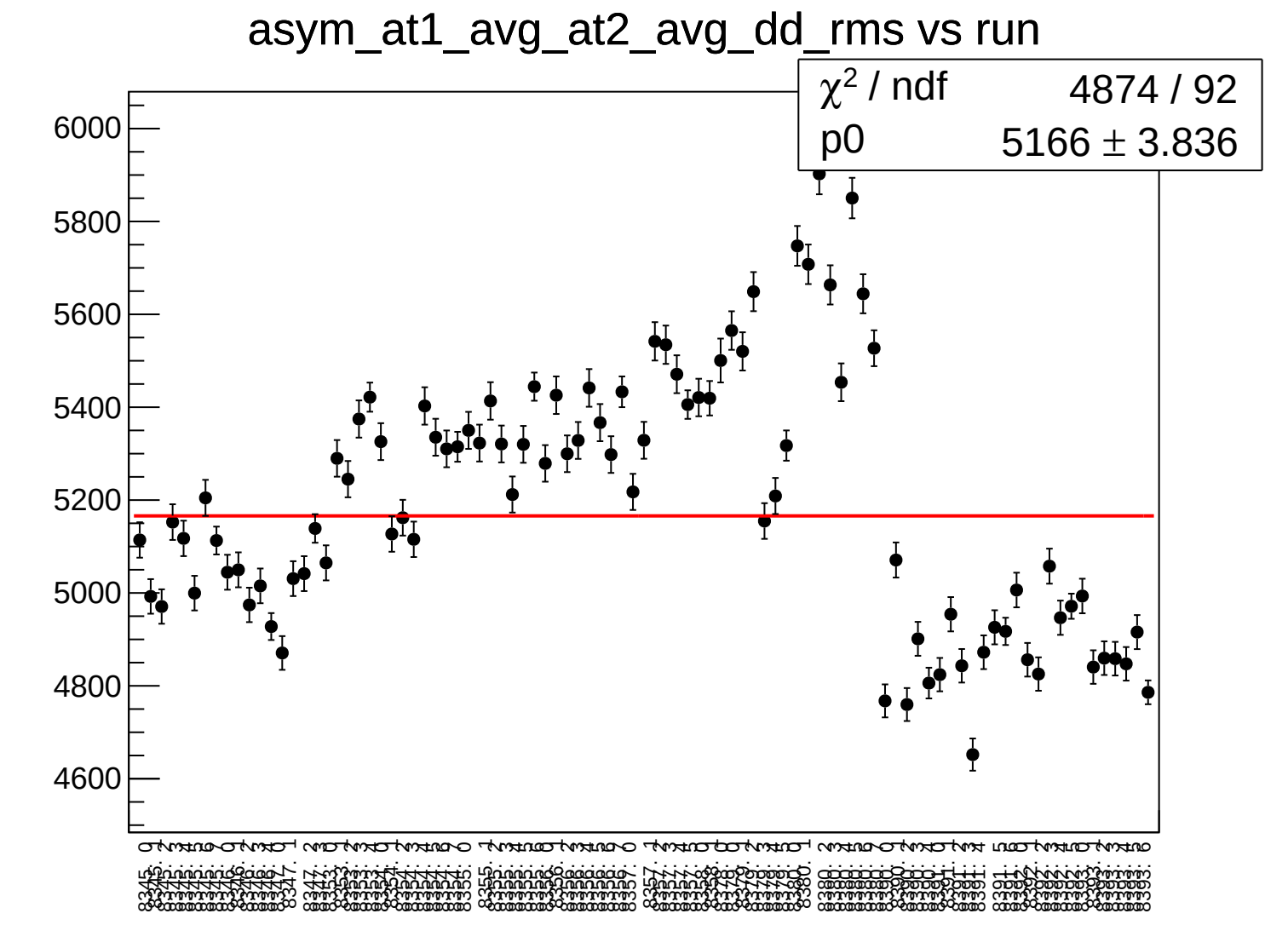

asym_at1_avg_at2_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 96.78 / 92
p0 −9880 ± 5267
pull
Entries 93
Mean −267.9
Std Dev 0

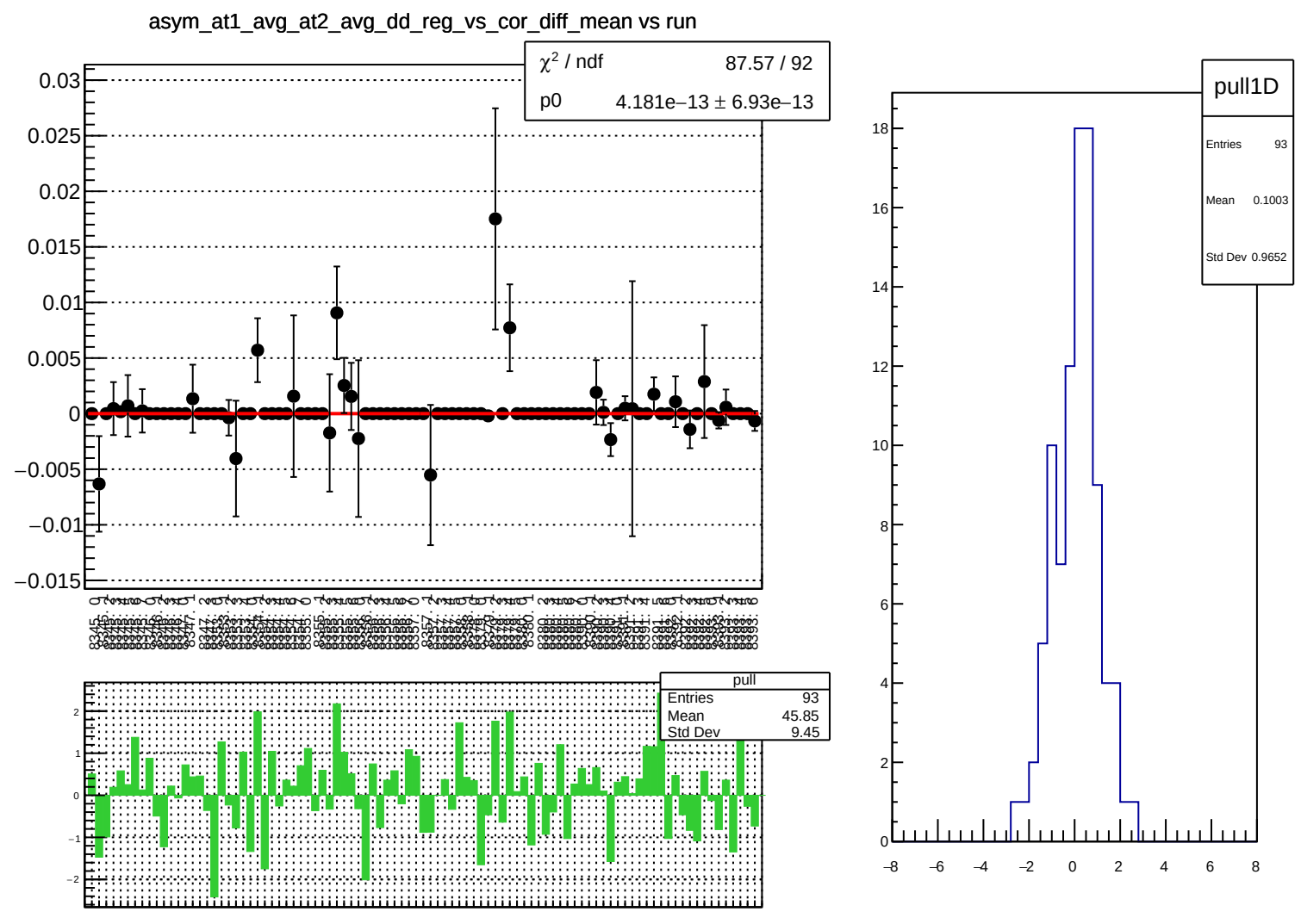

pull1D
Entries 93
Mean 0.01648
Std Dev 1.02

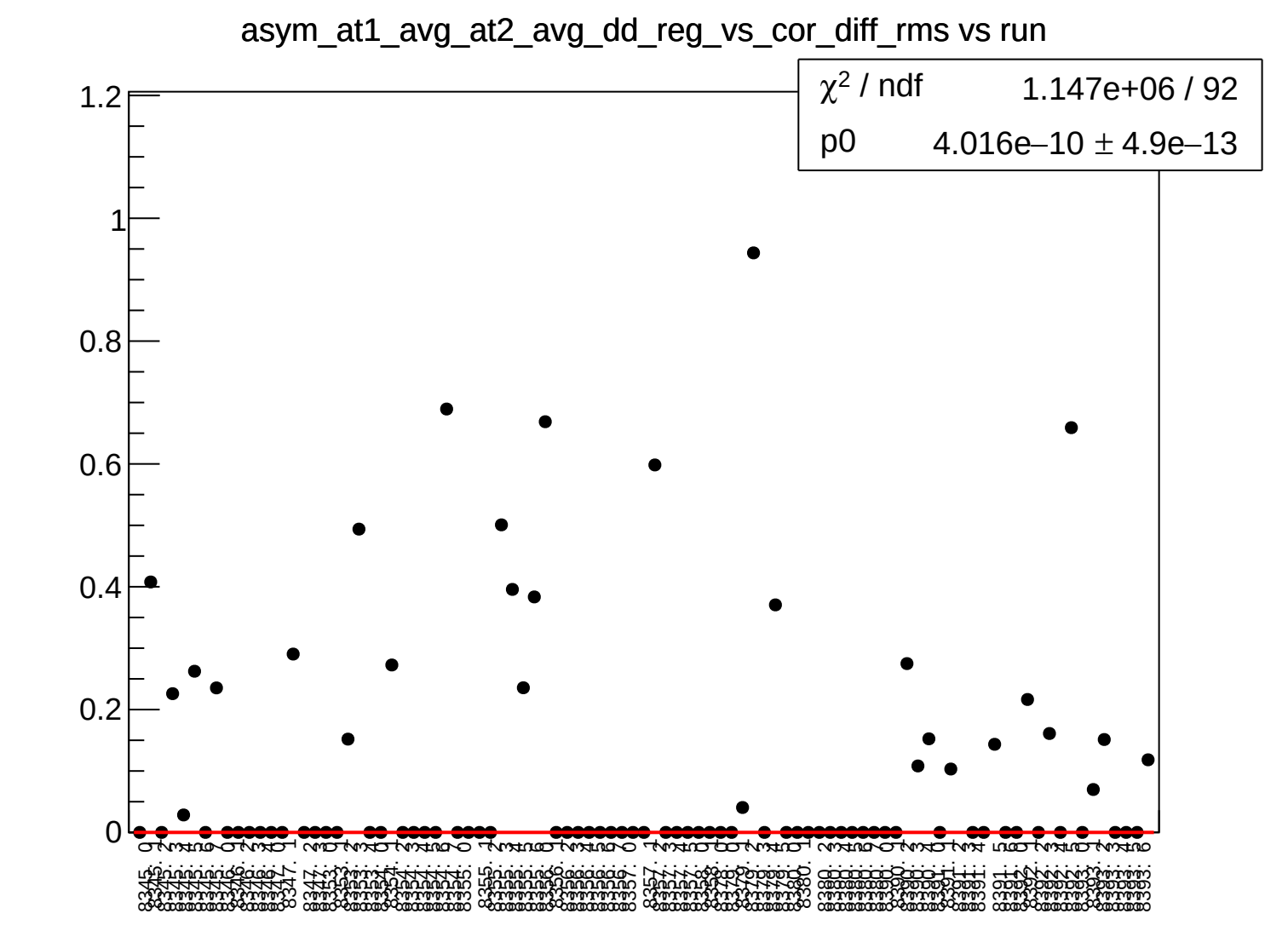

asym_at1_avg_at2_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 5039 / 92
p0 5016 ± 3.724
5800
5600
5400
5200
5000
4800
4600
4400

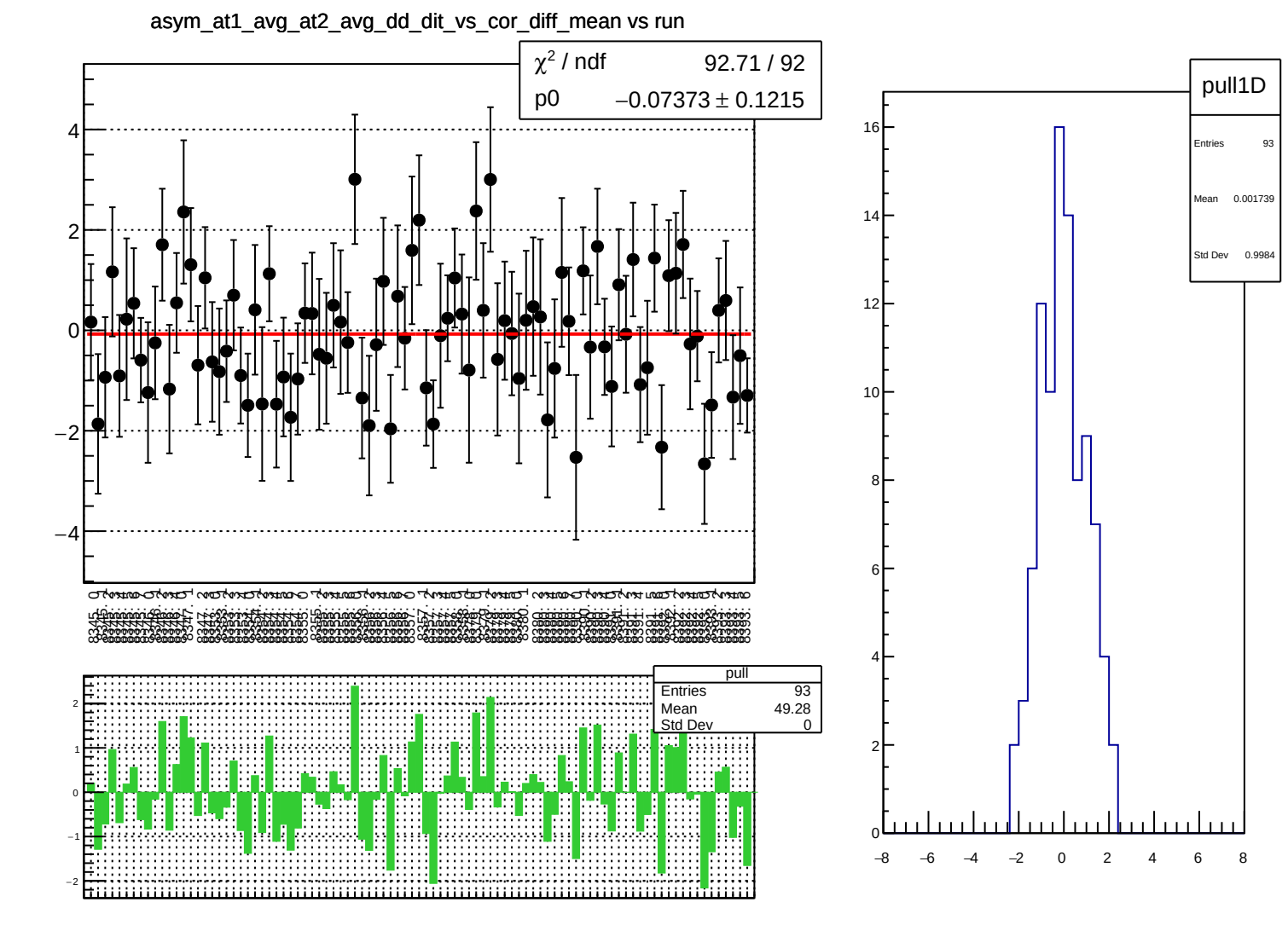

asym_at1_avg_at2_avg_dd_mean vs run
×10^3
χ² / ndf 99.81 / 92
p0 7695 ± 5424
pull
Entries 93
Mean −228.5
Std Dev 0

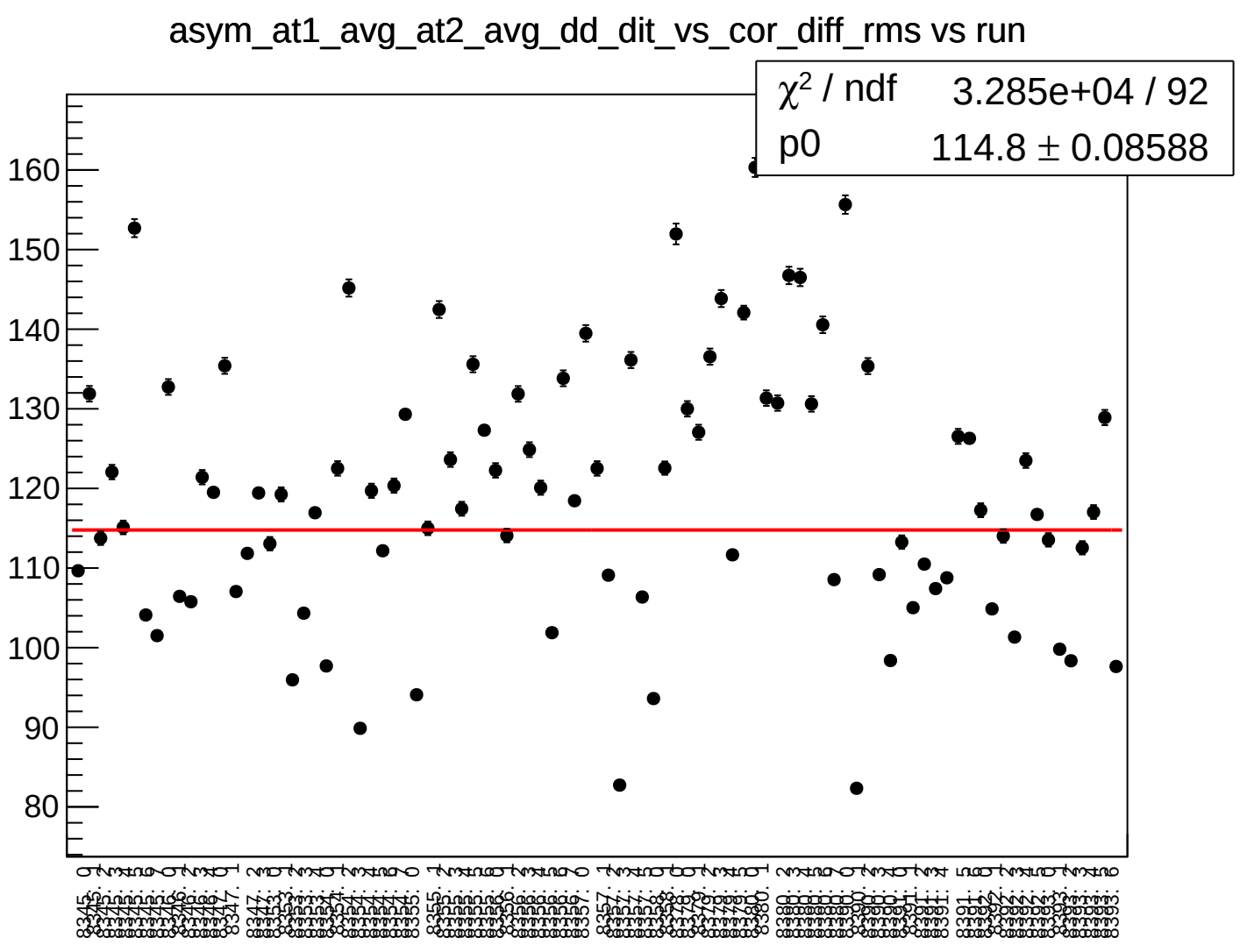

pull1D
Entries 93
Mean −0.01859
Std Dev 1.036

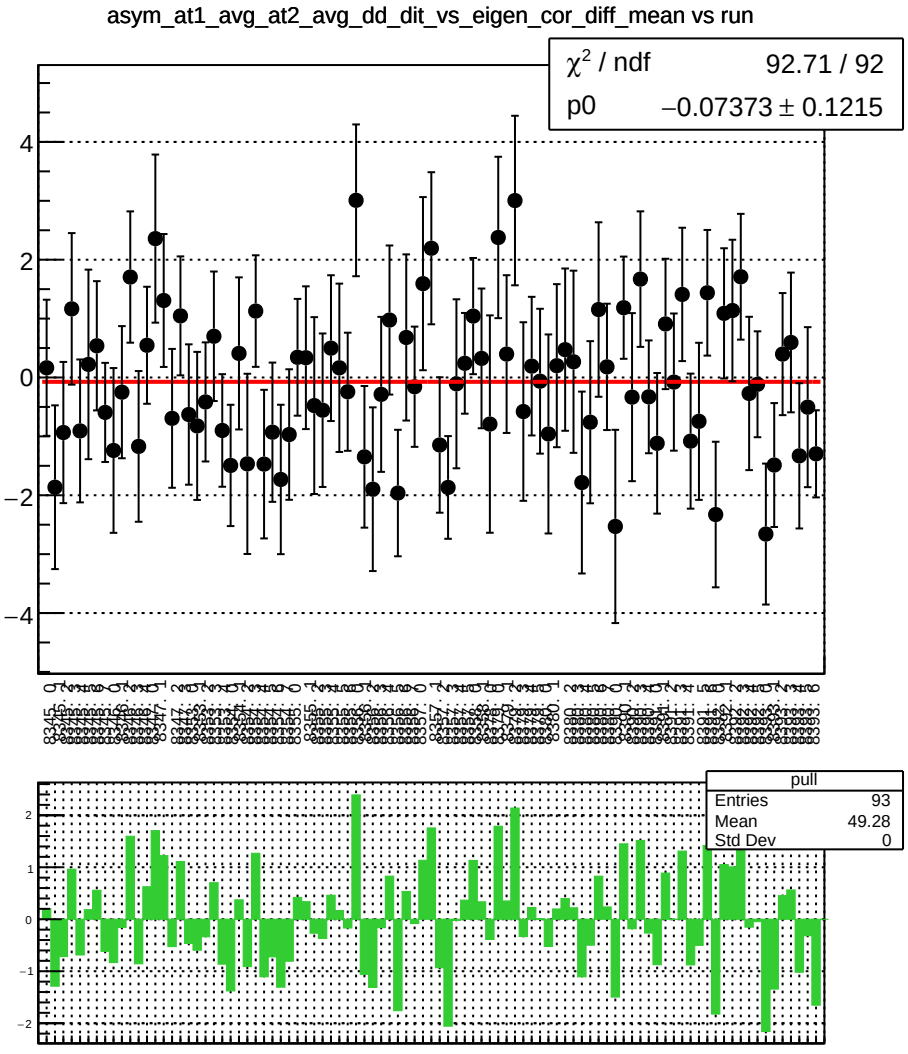

asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 4874 / 92
p0 5166 ± 3.836
6000
5800
5600
5400
5200
5000
4800
4600

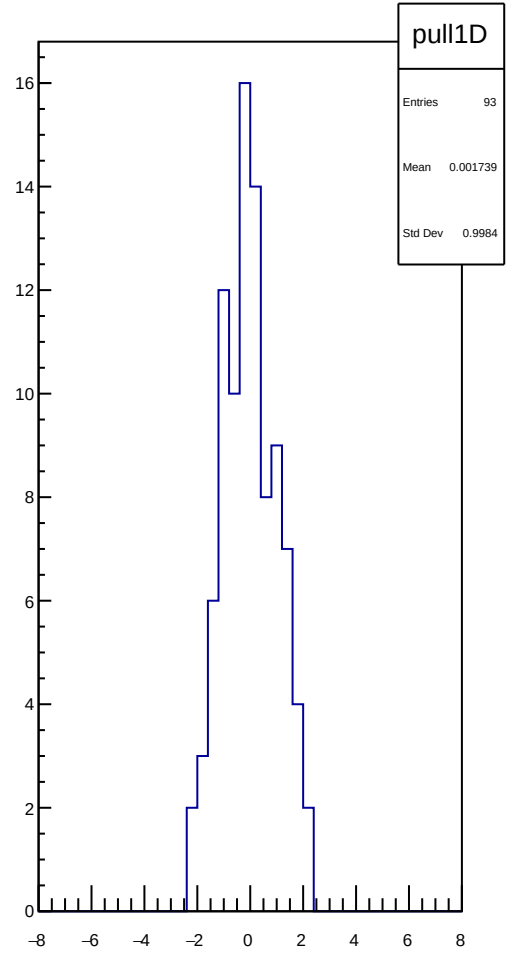

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 87.57 / 92
p0 4.181e−13 ± 6.93e−13
pull
Entries 93
Mean 45.85
Std Dev 9.45
pull1D
Entries 93
Mean 0.1003
Std Dev 0.9652

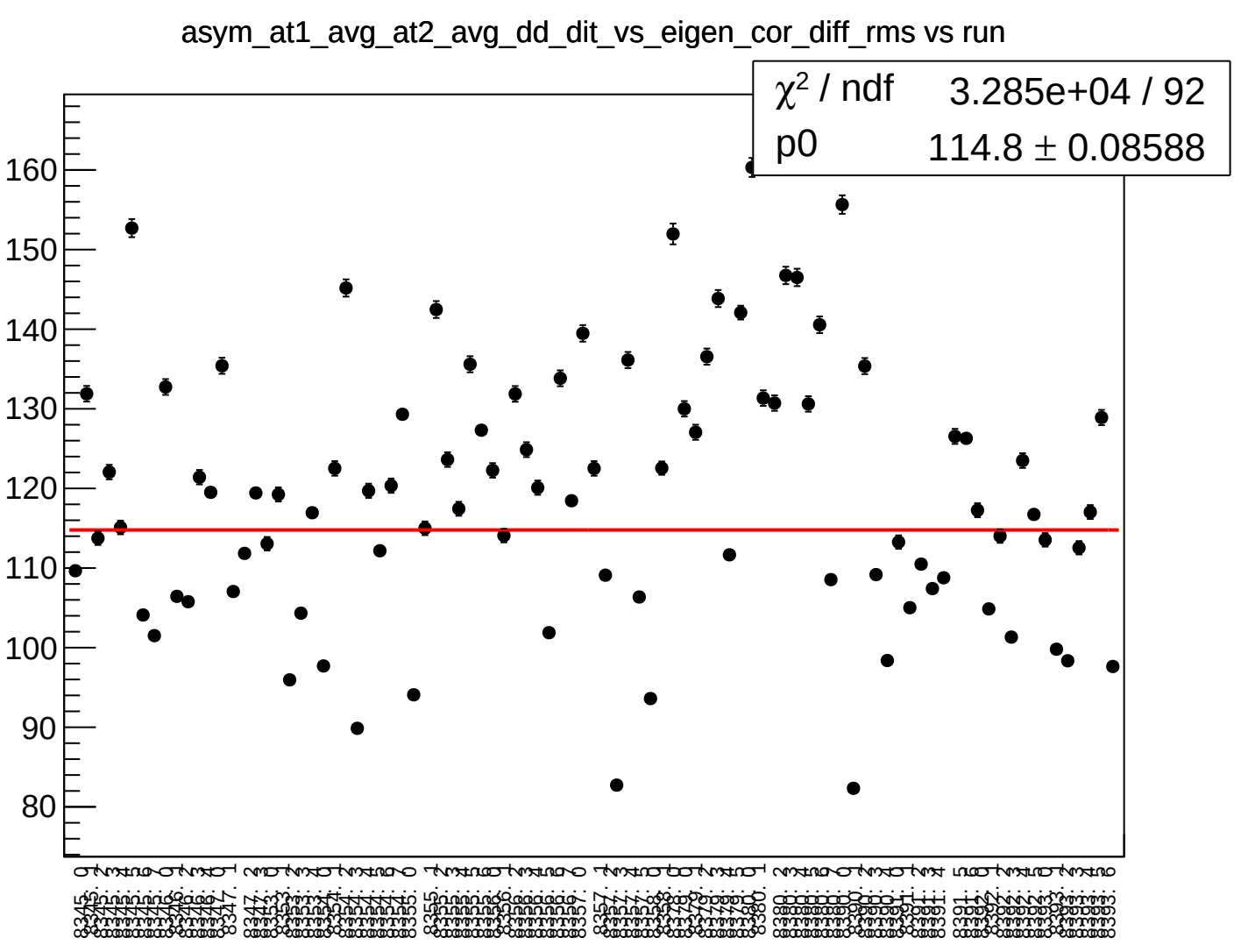

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.147e+06 / 92
p0 4.016e−10 ± 4.9e−13
1.2
1
0.8
0.6
0.4
0.2
0

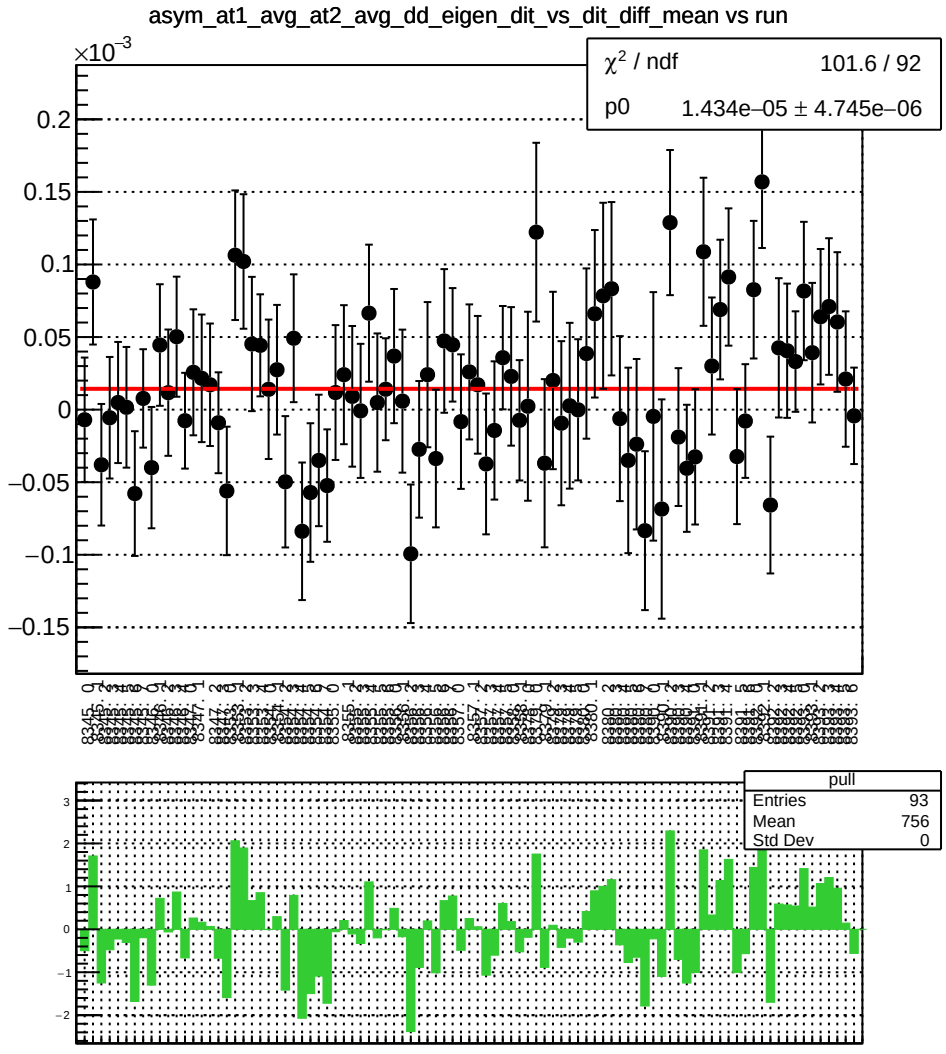

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 92.71 / 92
p0 −0.07373 ± 0.1215
pull
Entries 93
Mean 49.28
Std Dev 0
pull1D
Entries 93
Mean 0.001739
Std Dev 0.9984

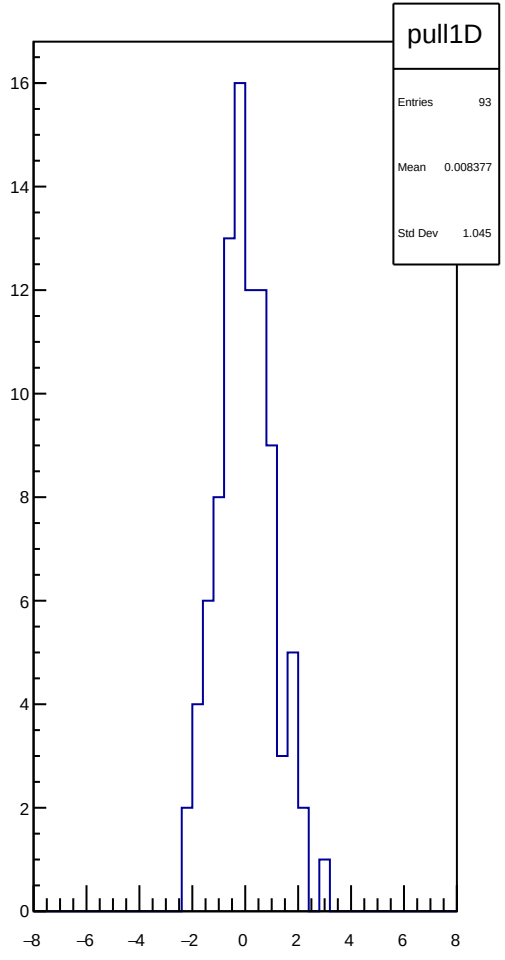

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.285e+04 / 92
p0 114.8 ± 0.08588
160
150
140
130
120
110
100
90
80

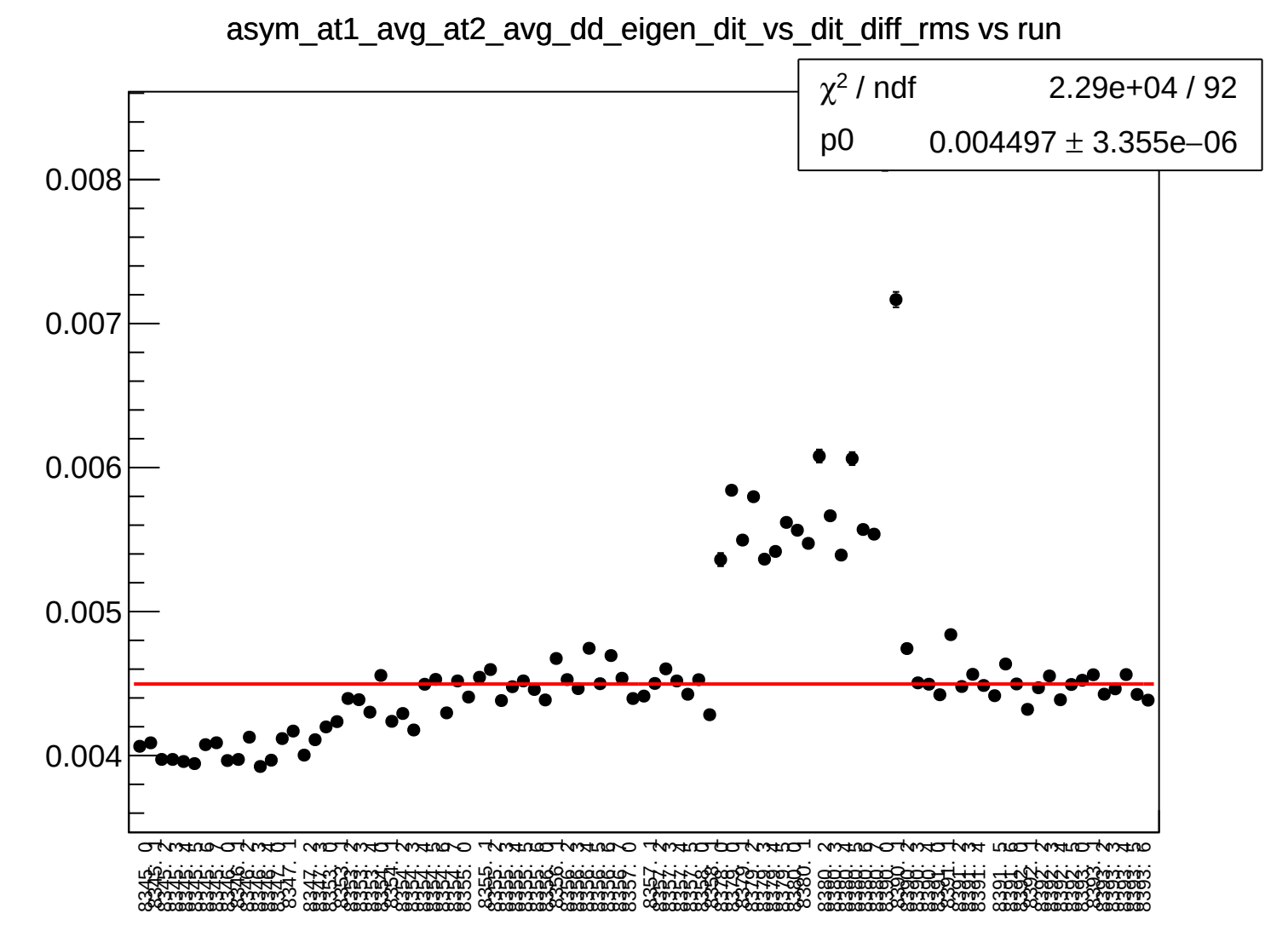

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.71 / 92
p0 −0.07373 ± 0.1215
pull
Entries 93
Mean 49.28
Std Dev 0

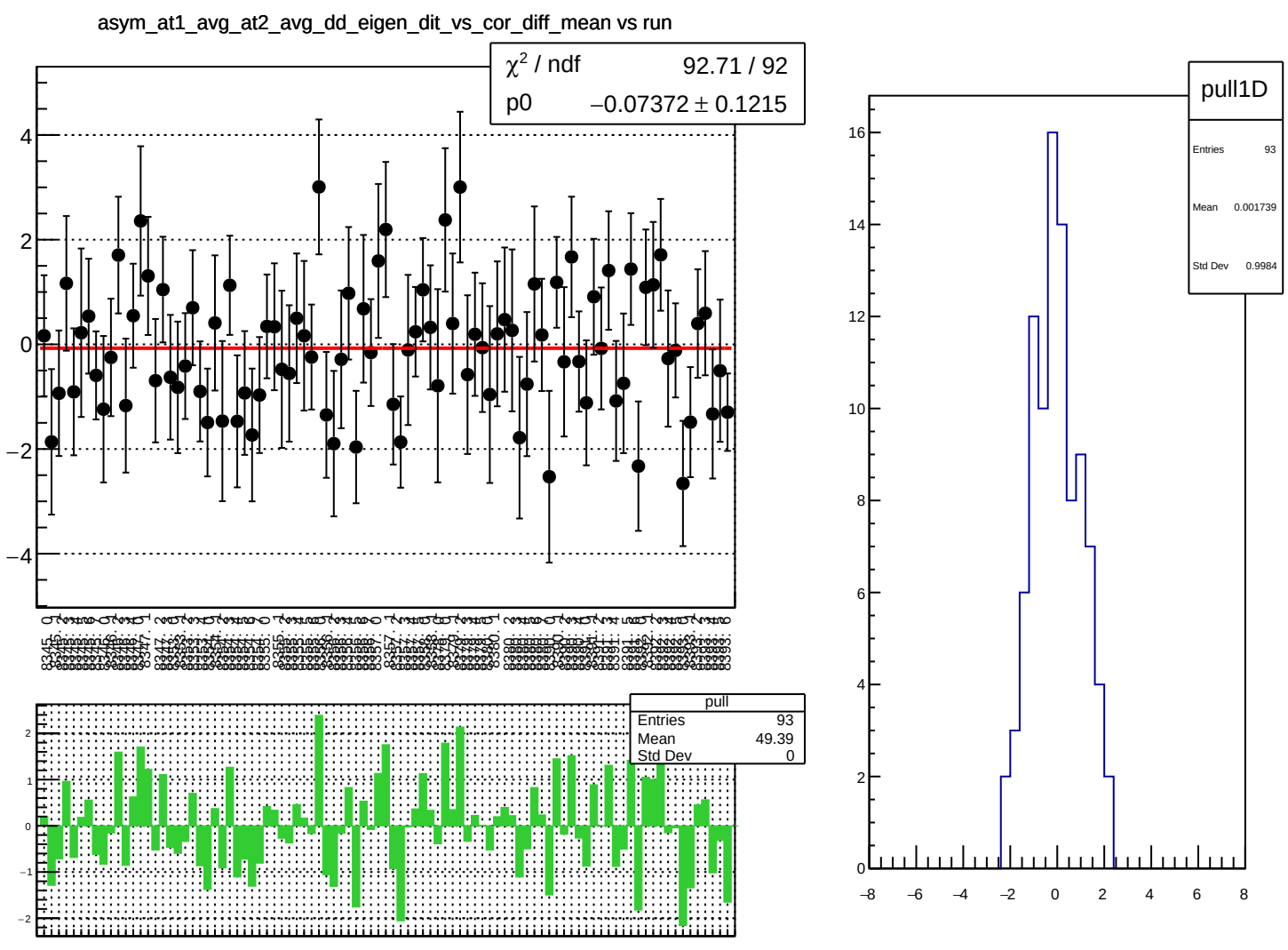

pull1D
Entries 93
Mean 0.001739
Std Dev 0.9984

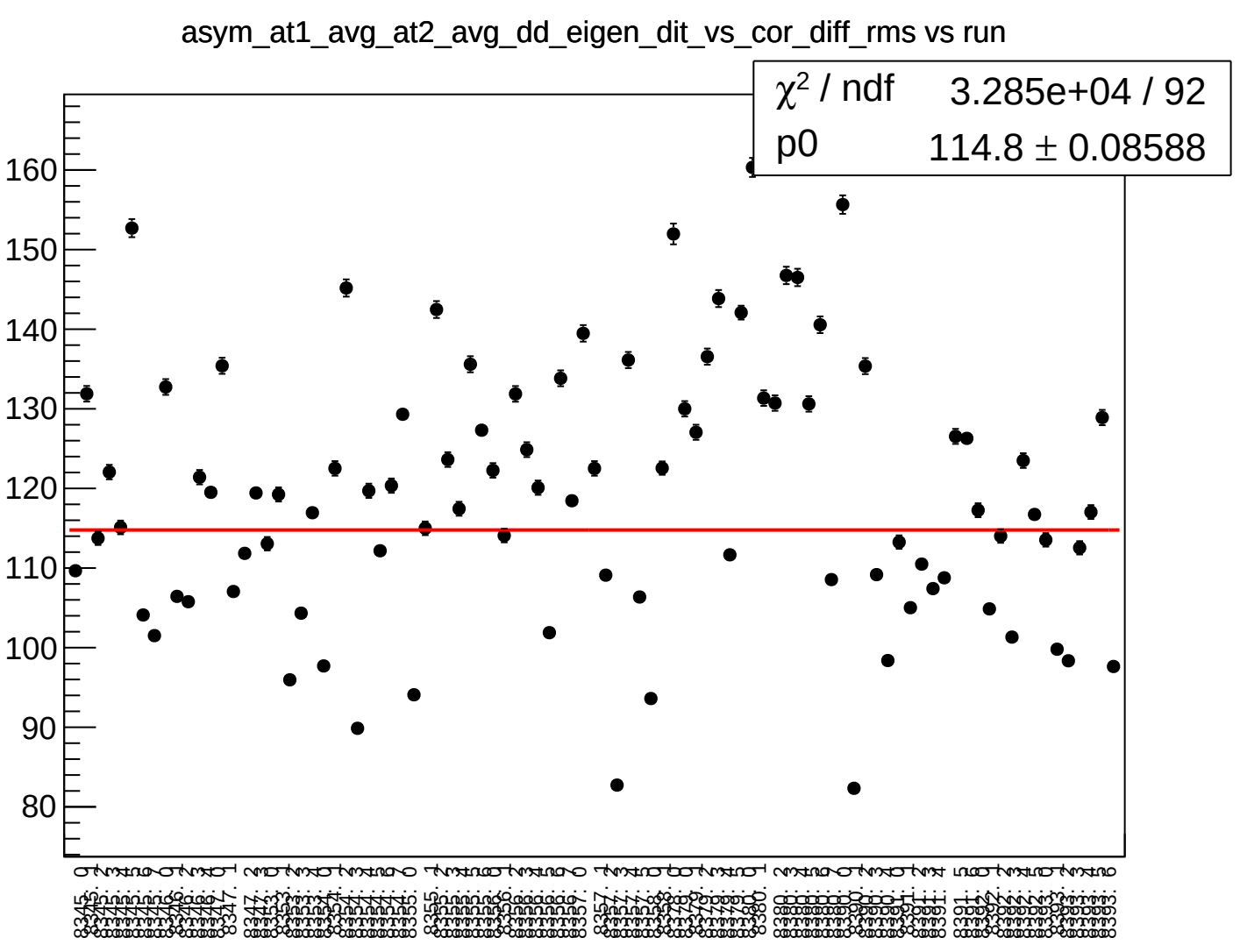

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.285e+04 / 92
p0 114.8 ± 0.08588
160
150
140
130
120
110
100
90
80

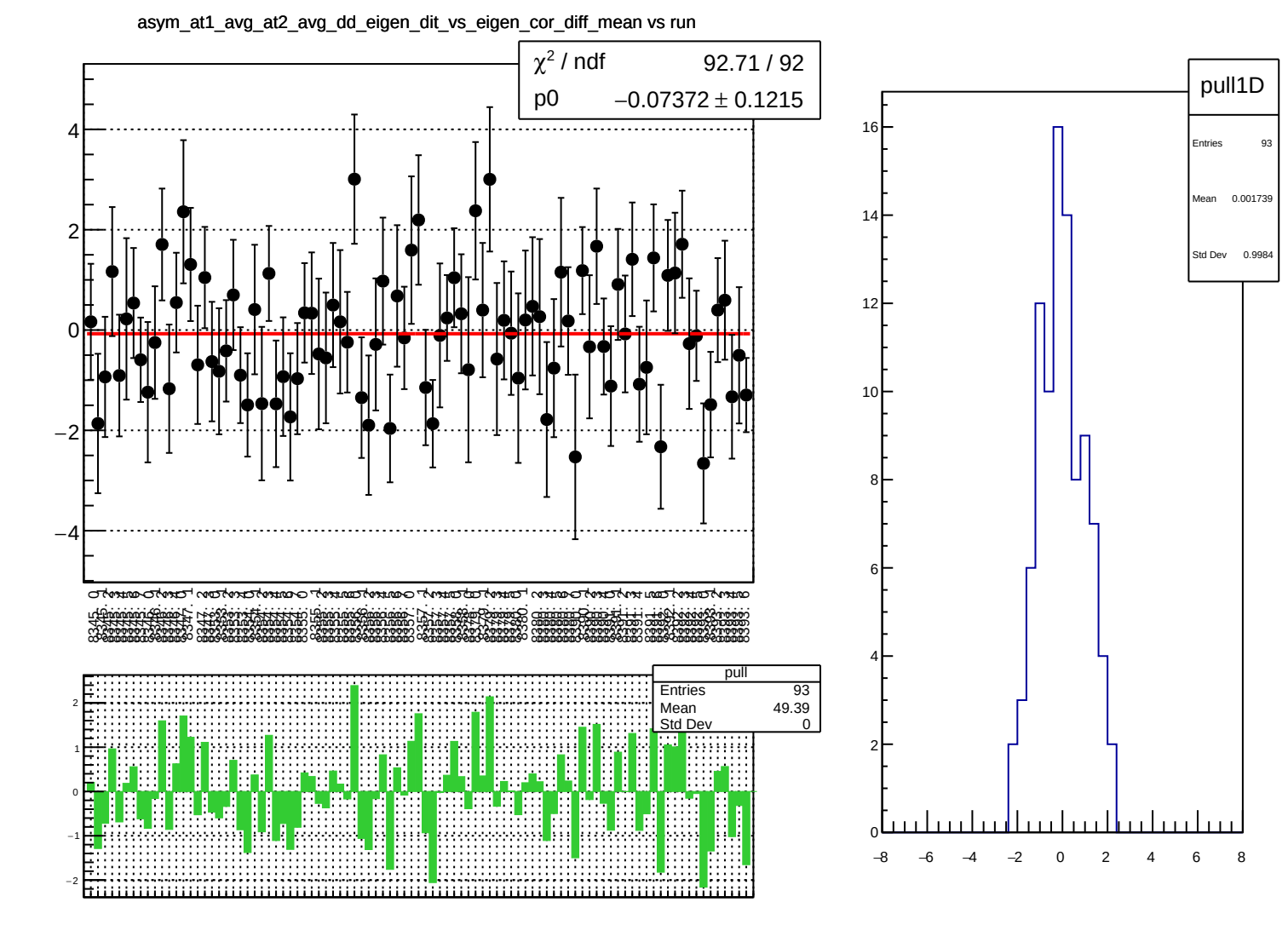

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 101.6 / 92
p0 1.434e−05 ± 4.745e−06
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 93
Mean 756
Std Dev 0
3
2
1
0
−1
−2

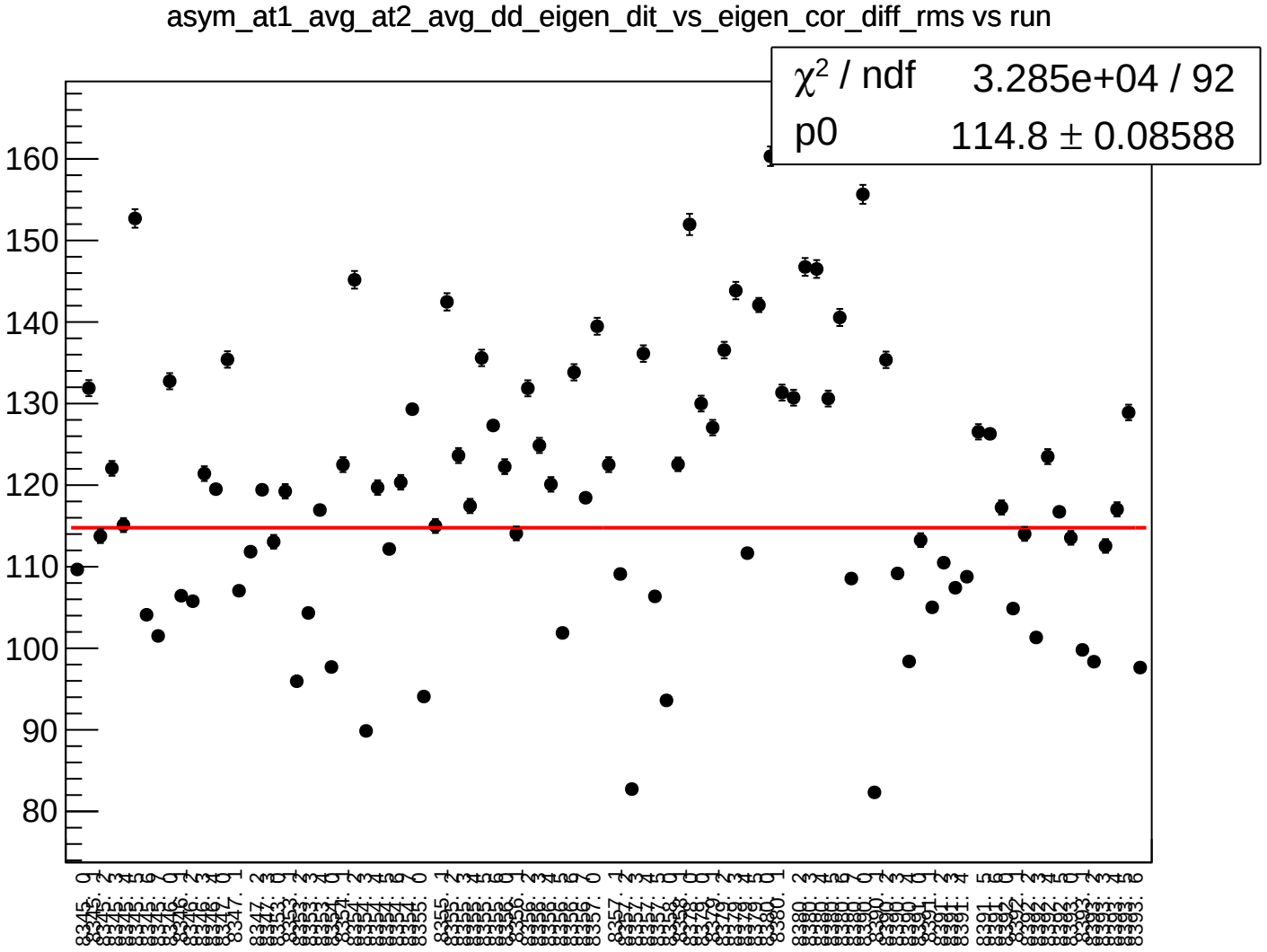

pull1D
Entries 93
Mean 0.008377
Std Dev 1.045
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

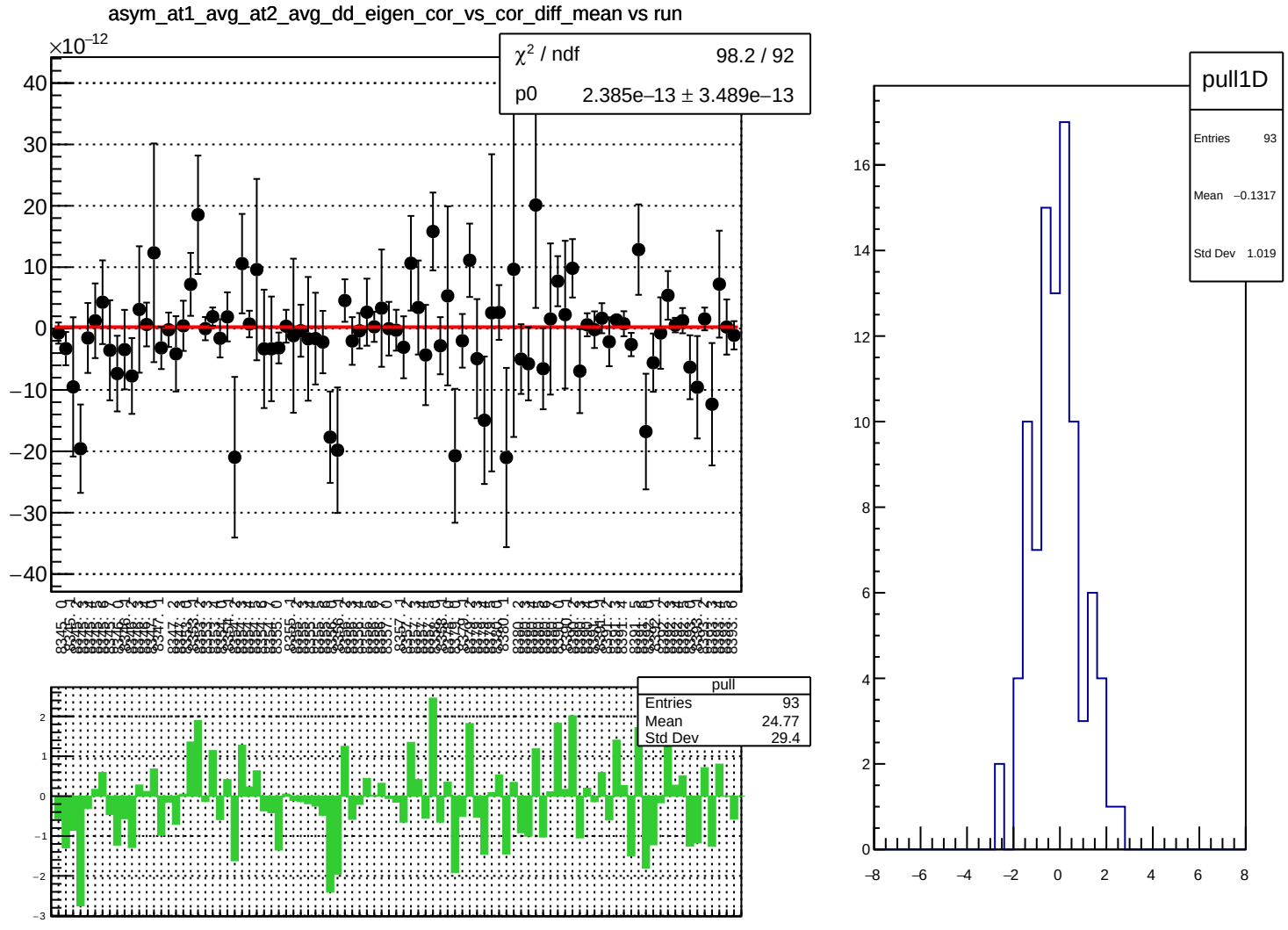

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.29e+04 / 92
p0 0.004497 ± 3.355e−06
0.008
0.007
0.006
0.005
0.004

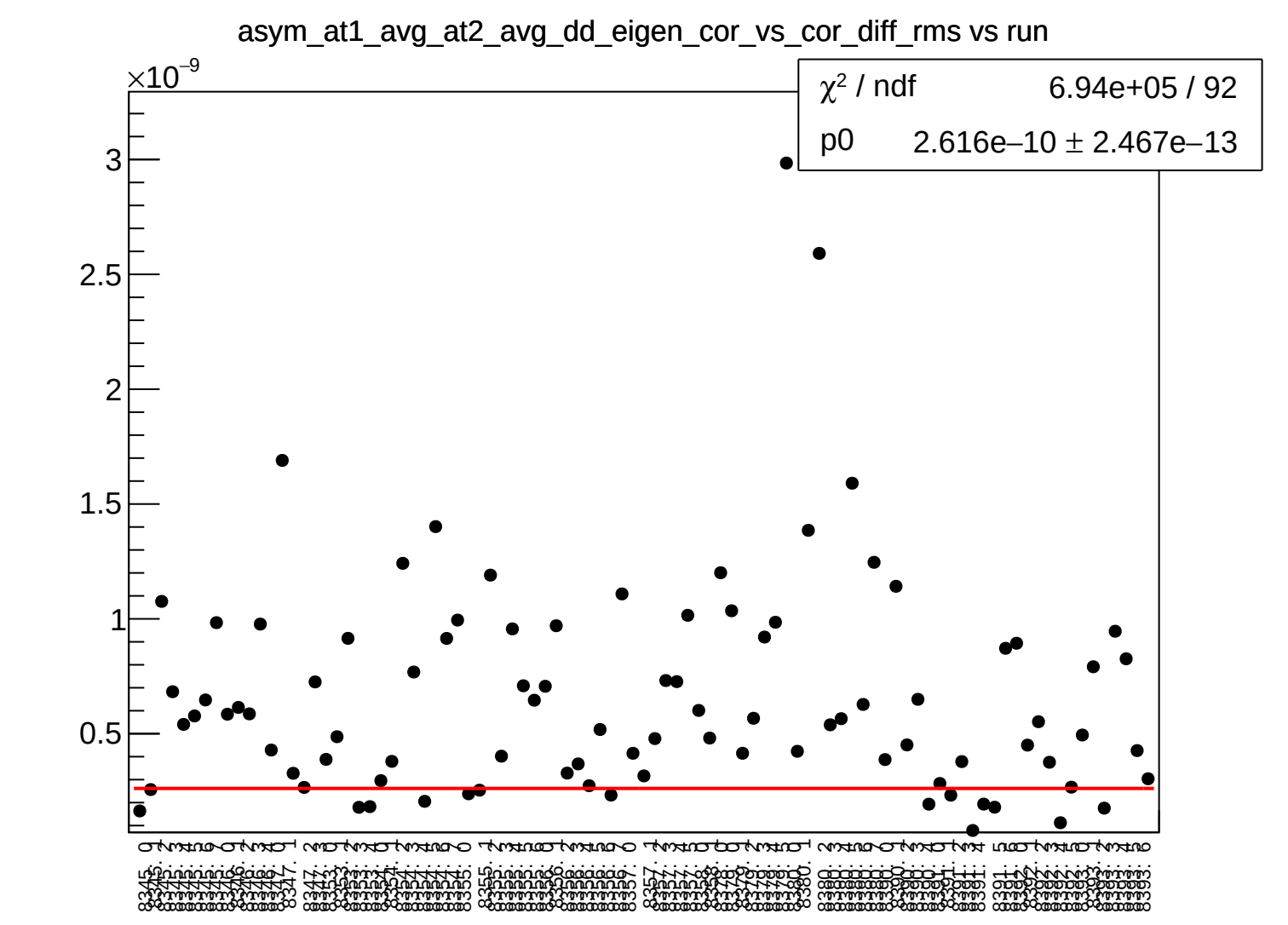

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.71 / 92
p0 −0.07372 ± 0.1215
pull
Entries 93
Mean 49.39
Std Dev 0
pull1D
Entries 93
Mean 0.001739
Std Dev 0.9984

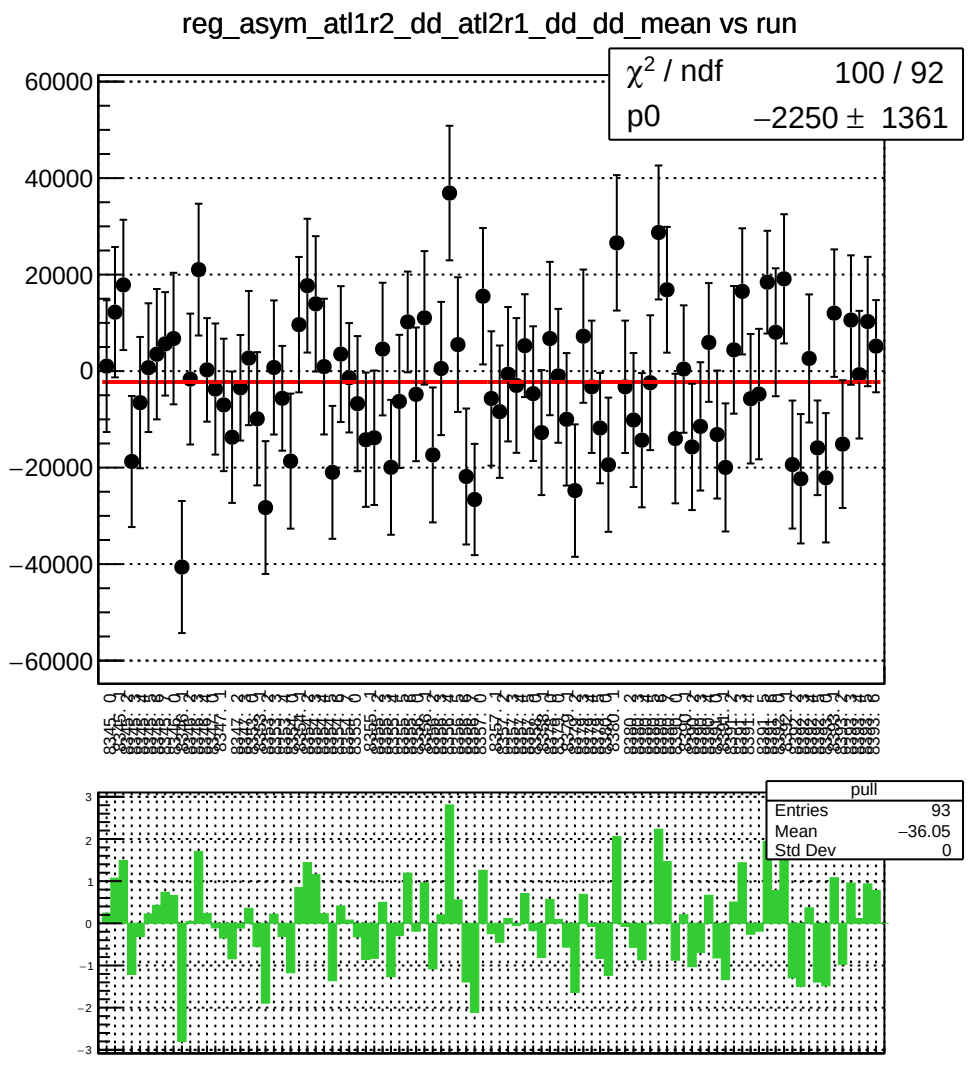

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.285e+04 / 92
p0 114.8 ± 0.08588
160
150
140
130
120
110
100
90
80

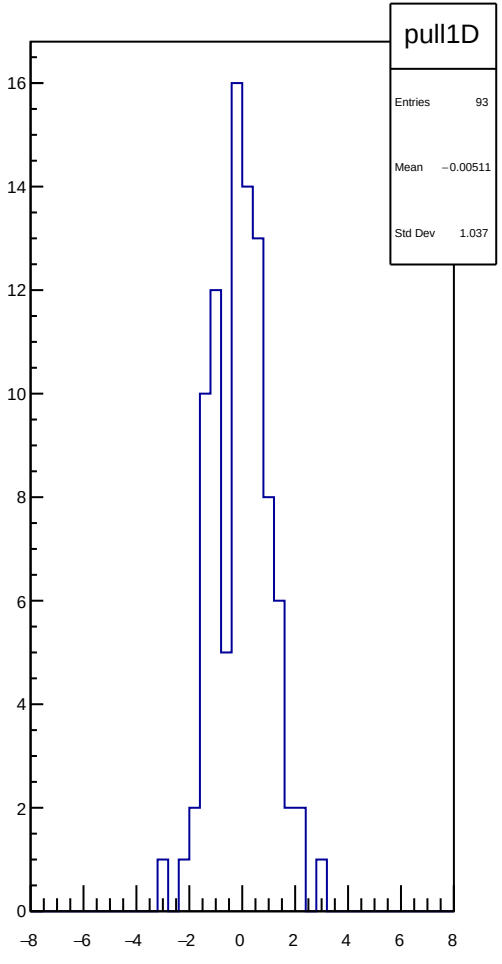

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.71 / 92
p0 −0.07372 ± 0.1215
pull
Entries 93
Mean 49.39
Std Dev 0
pull1D
Entries 93
Mean 0.001739
Std Dev 0.9984

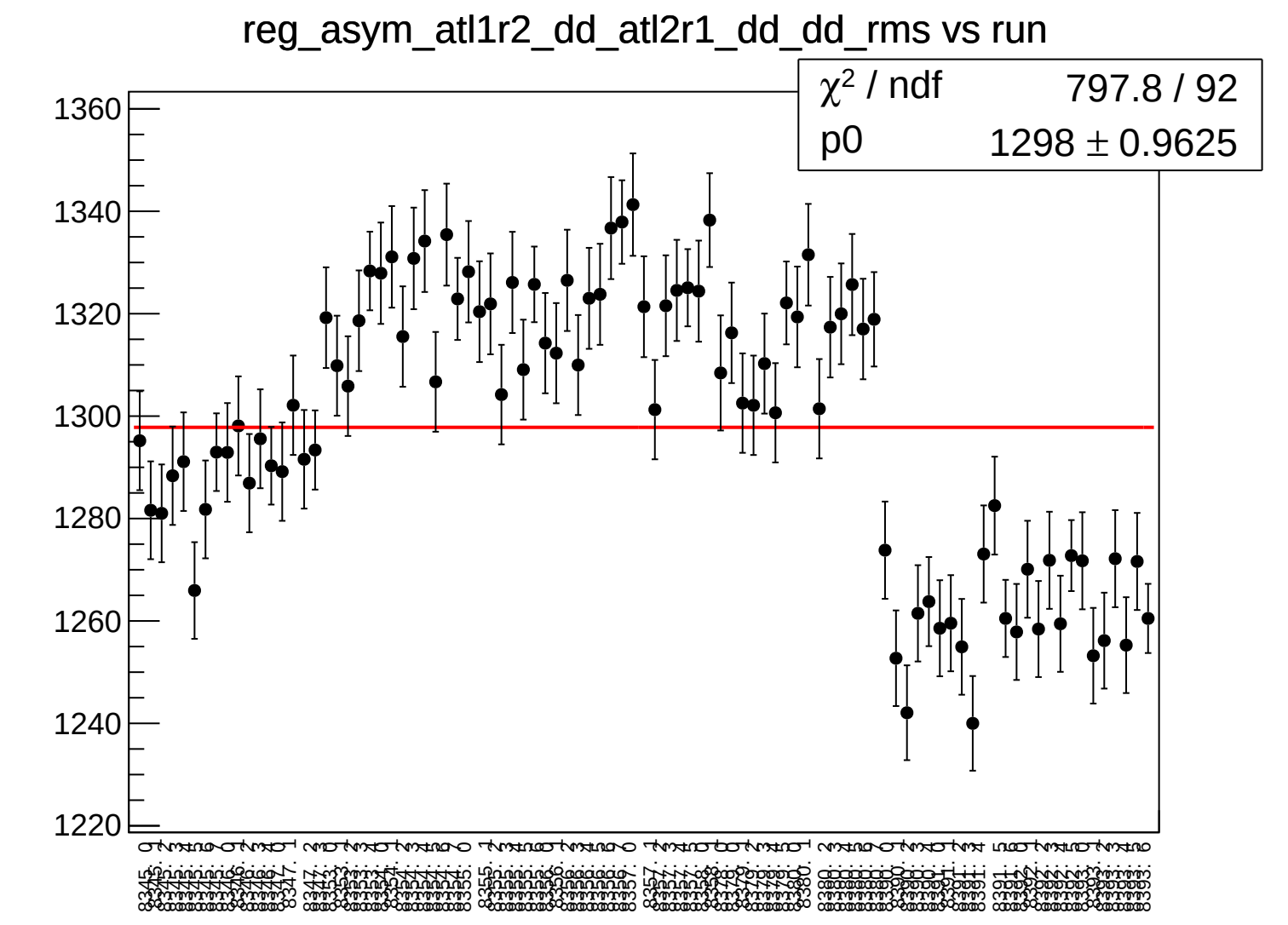

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.285e+04 / 92
p0 114.8 ± 0.08588
160
150
140
130
120
110
100
90
80

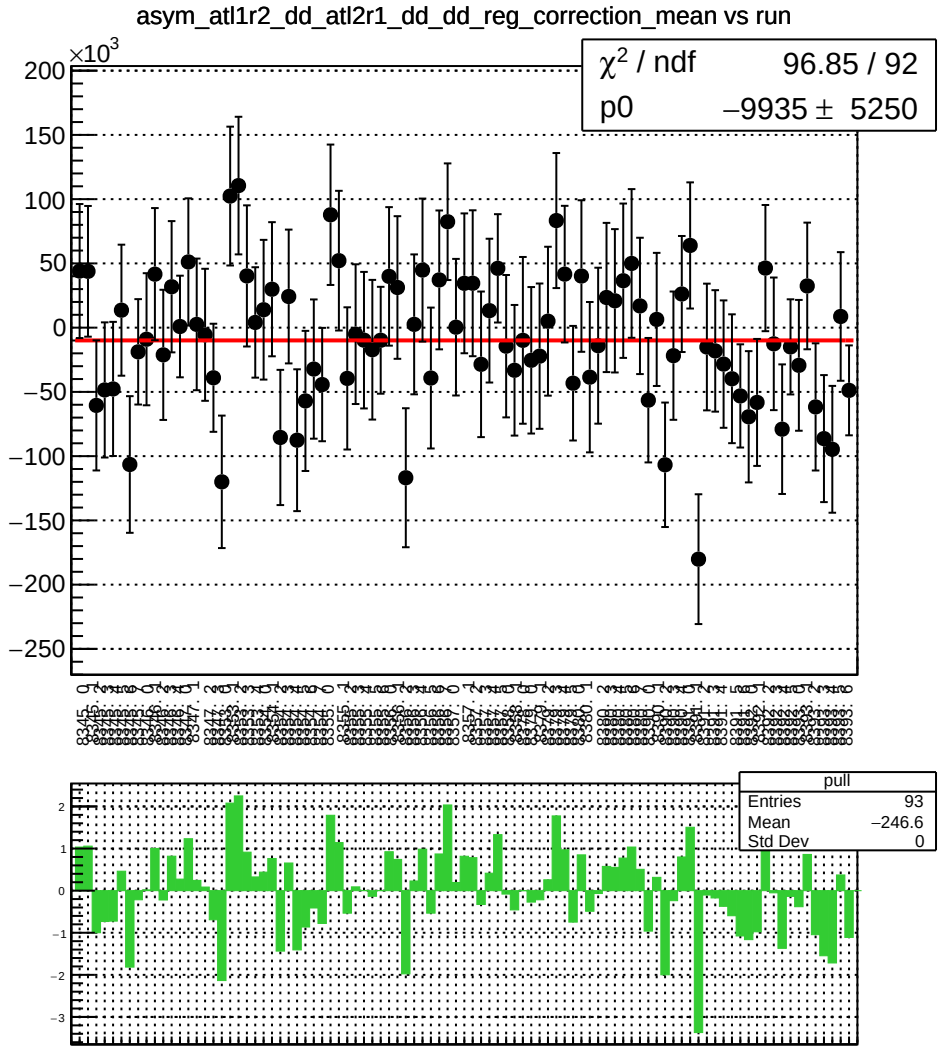

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.2 / 92
p0 2.385e−13 ± 3.489e−13
pull
Entries 93
Mean 24.77
Std Dev 29.4
pull1D
Entries 93
Mean −0.1317
Std Dev 1.019

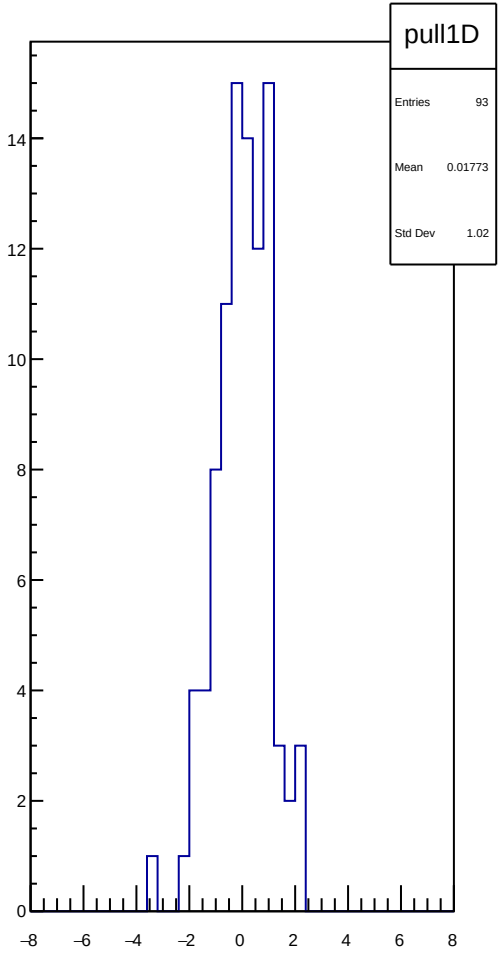

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.94e+05 / 92
p0 2.616e−10 ± 2.467e−13
3
2.5
2
1.5
1
0.5

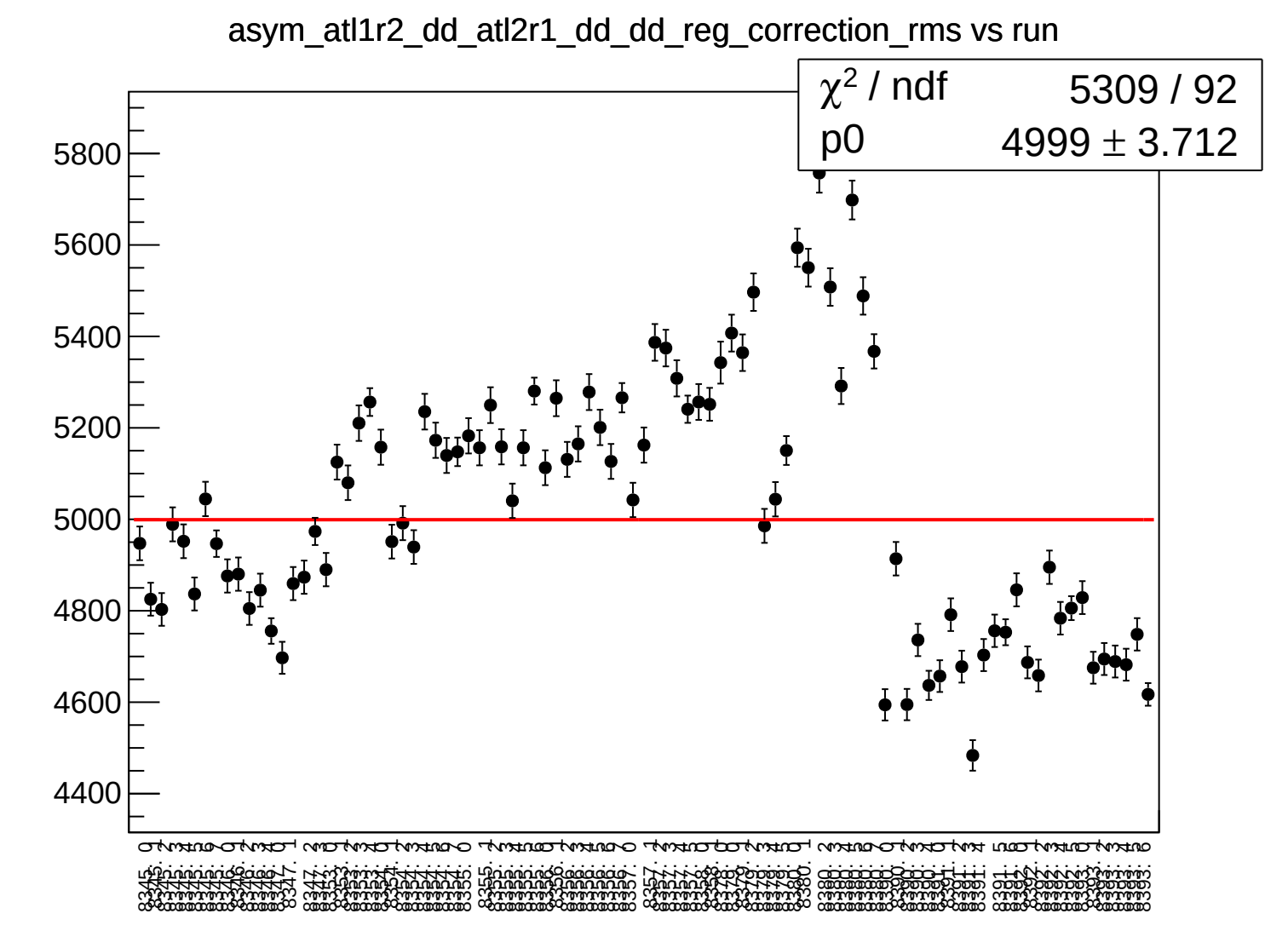

reg_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 100 / 92
p0 −2250 ± 1361
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −36.05
Std Dev 0
3
2
1
0
−1
−2
−3

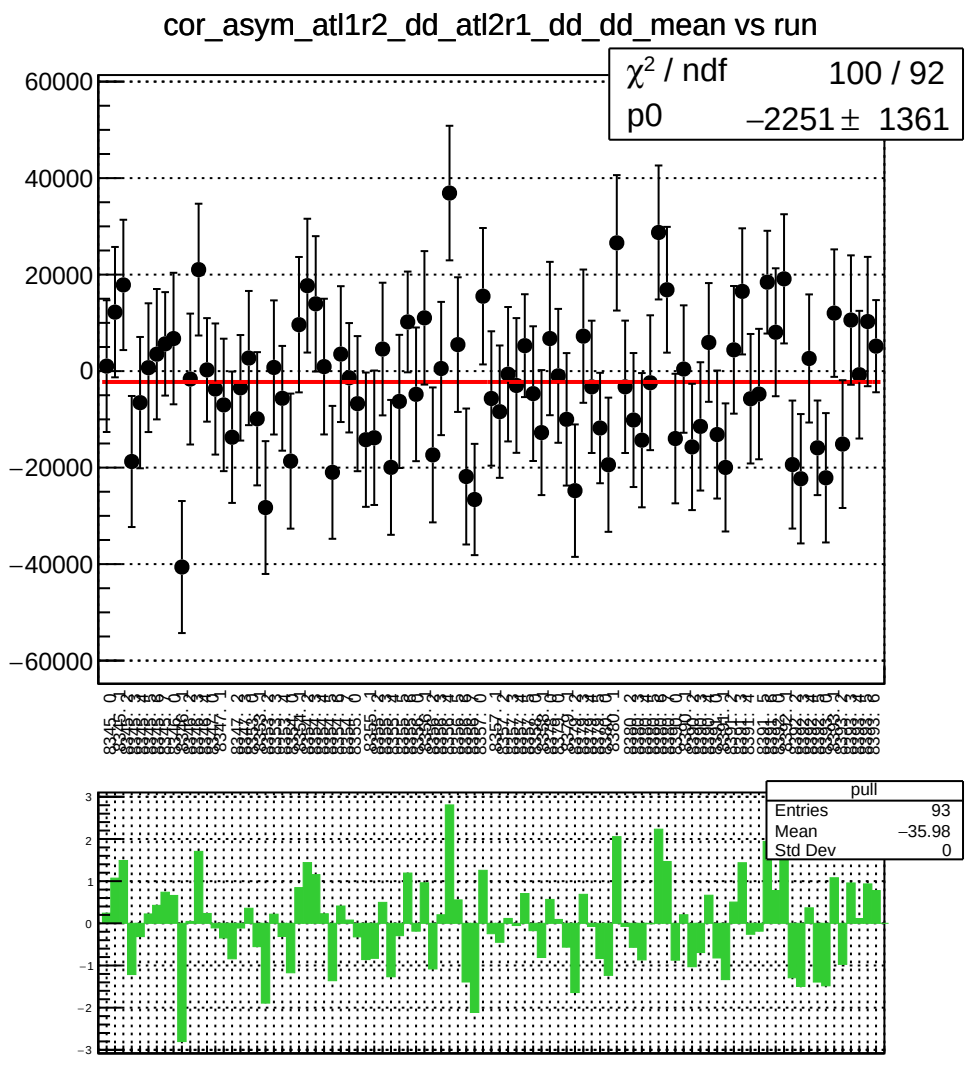

pull1D
Entries 93
Mean −0.00511
Std Dev 1.037
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

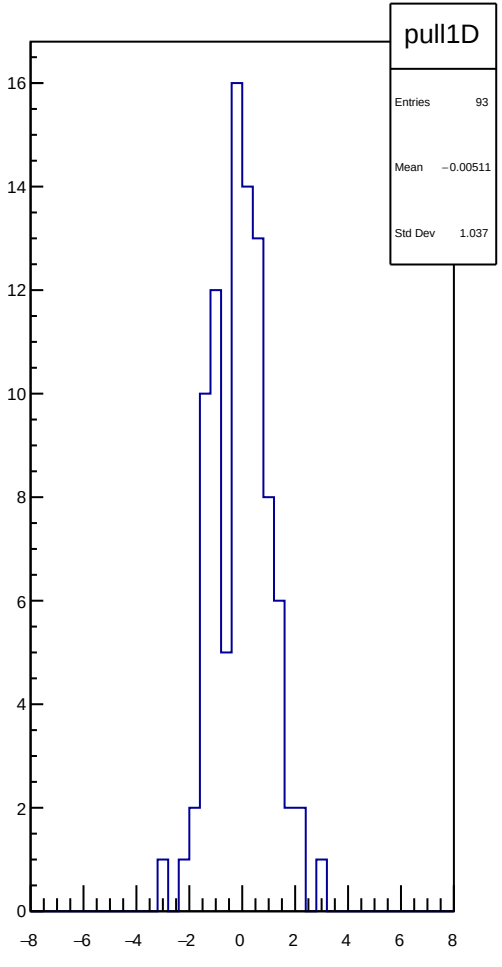

reg_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 797.8 / 92
p0 1298 ± 0.9625
1360
1340
1320
1300
1280
1260
1240
1220

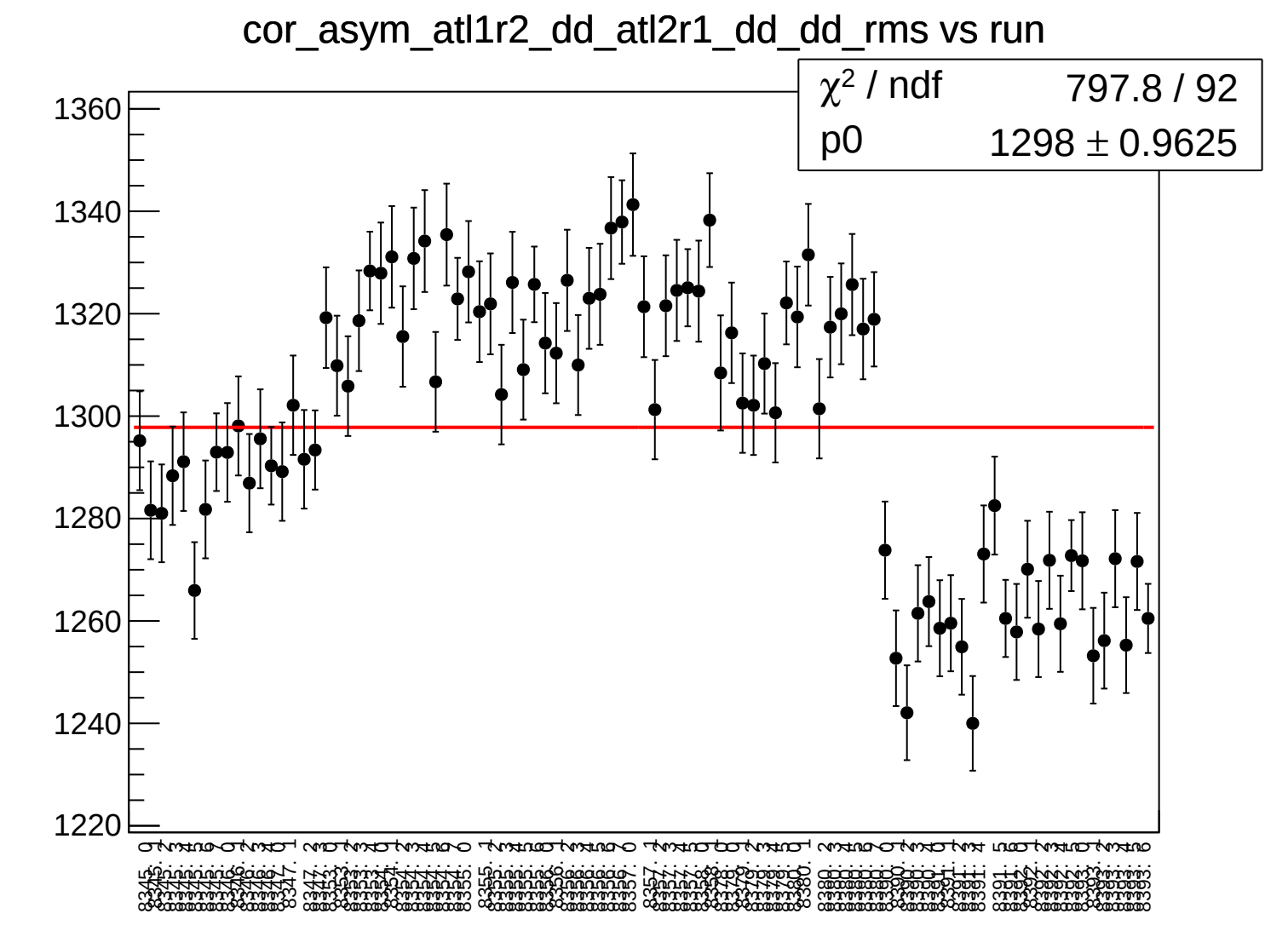

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_mean vs run
×10^3
χ² / ndf 96.85 / 92
p0 −9935 ± 5250
pull
Entries 93
Mean −246.6
Std Dev 0

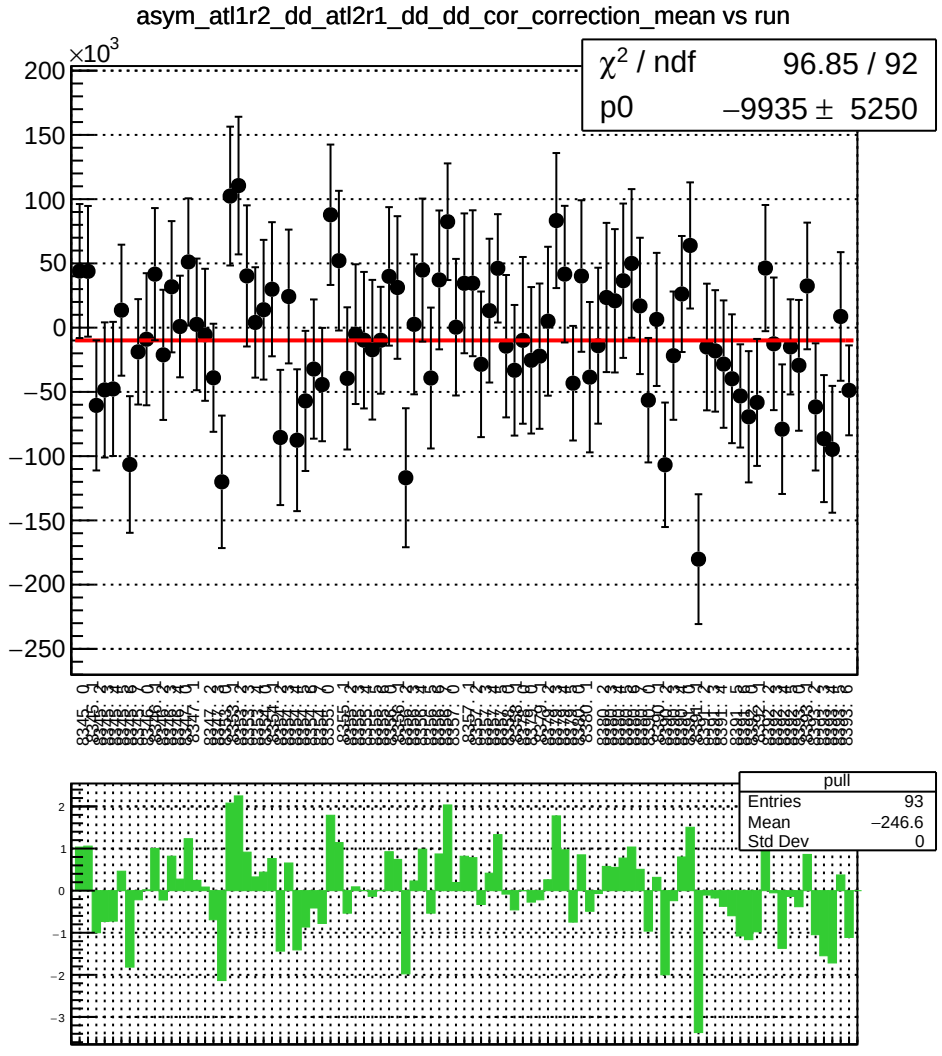

pull1D
Entries 93
Mean 0.01773
Std Dev 1.02

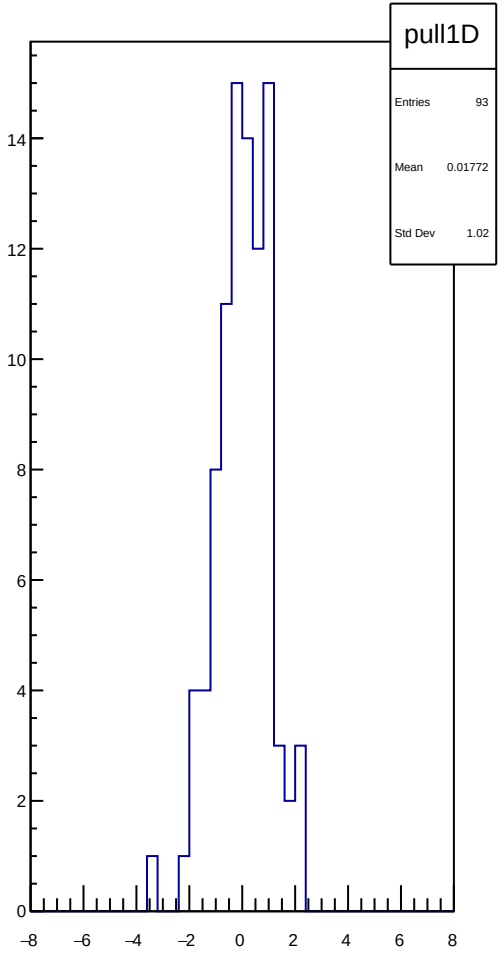

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_rms vs run
χ² / ndf 5309 / 92
p0 4999 ± 3.712
5800
5600
5400
5200
5000
4800
4600
4400

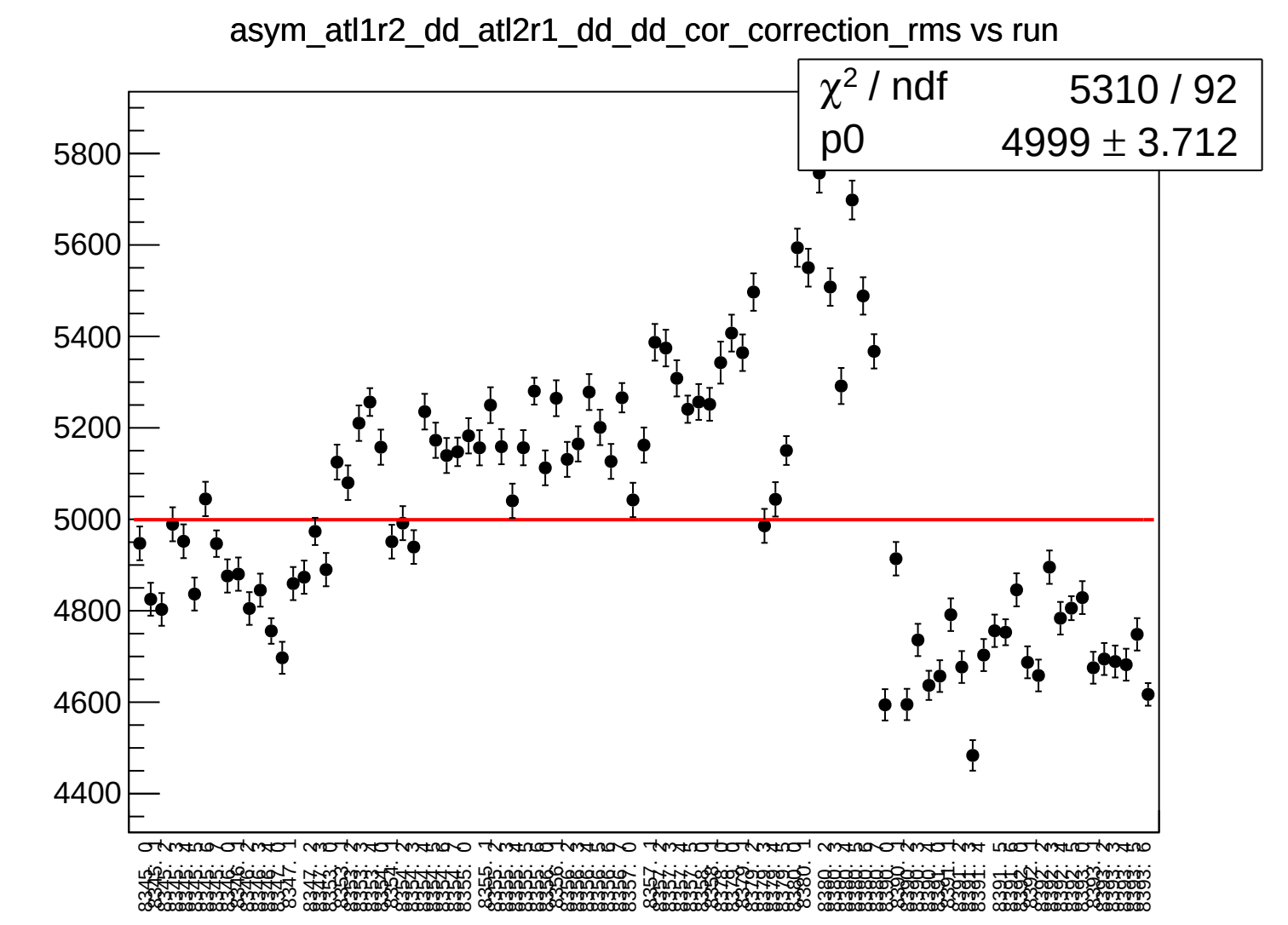

cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 100 / 92
p0 −2251 ± 1361
pull
Entries 93
Mean −35.98
Std Dev 0

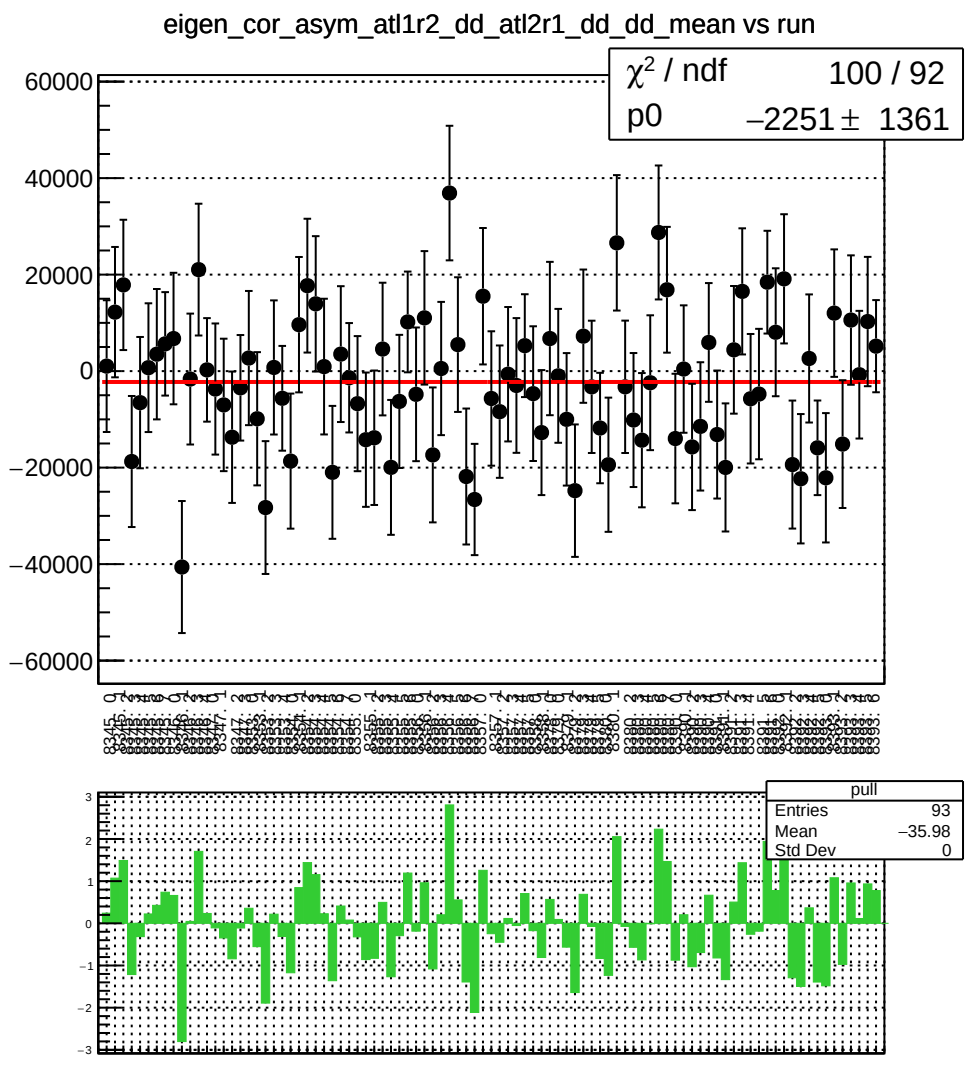

pull1D
Entries 93
Mean −0.00511
Std Dev 1.037

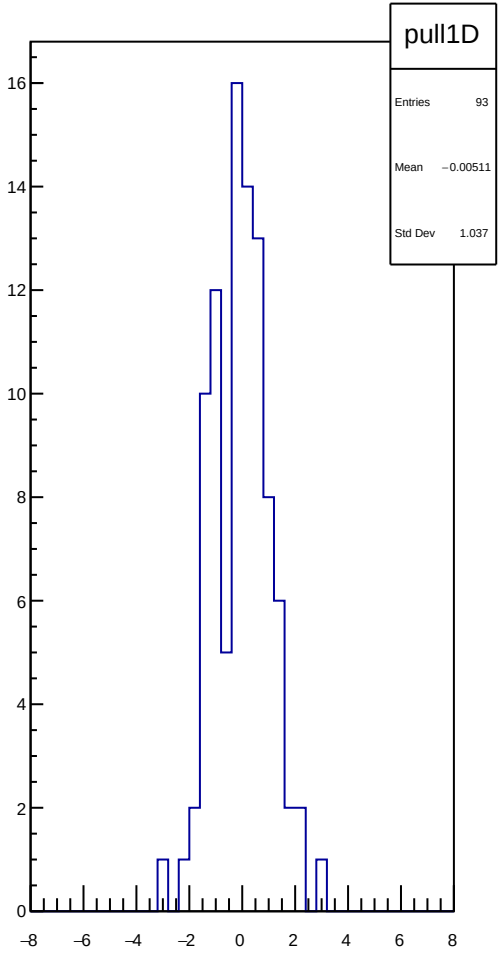

cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 797.8 / 92
p0 1298 ± 0.9625
1360
1340
1320
1300
1280
1260
1240
1220

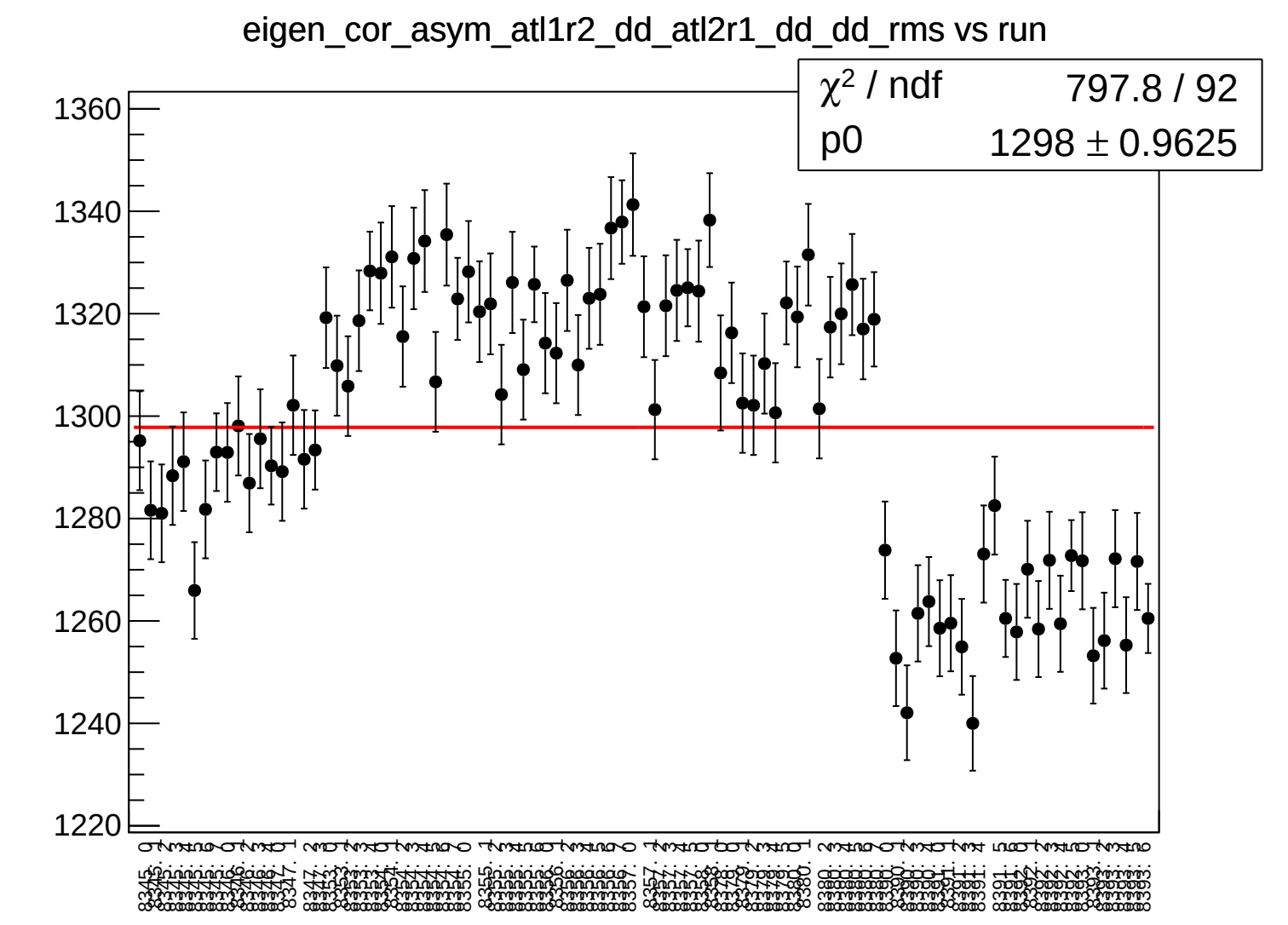

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 96.85 / 92
p0 −9935 ± 5250
pull
Entries 93
Mean −246.6
Std Dev 0

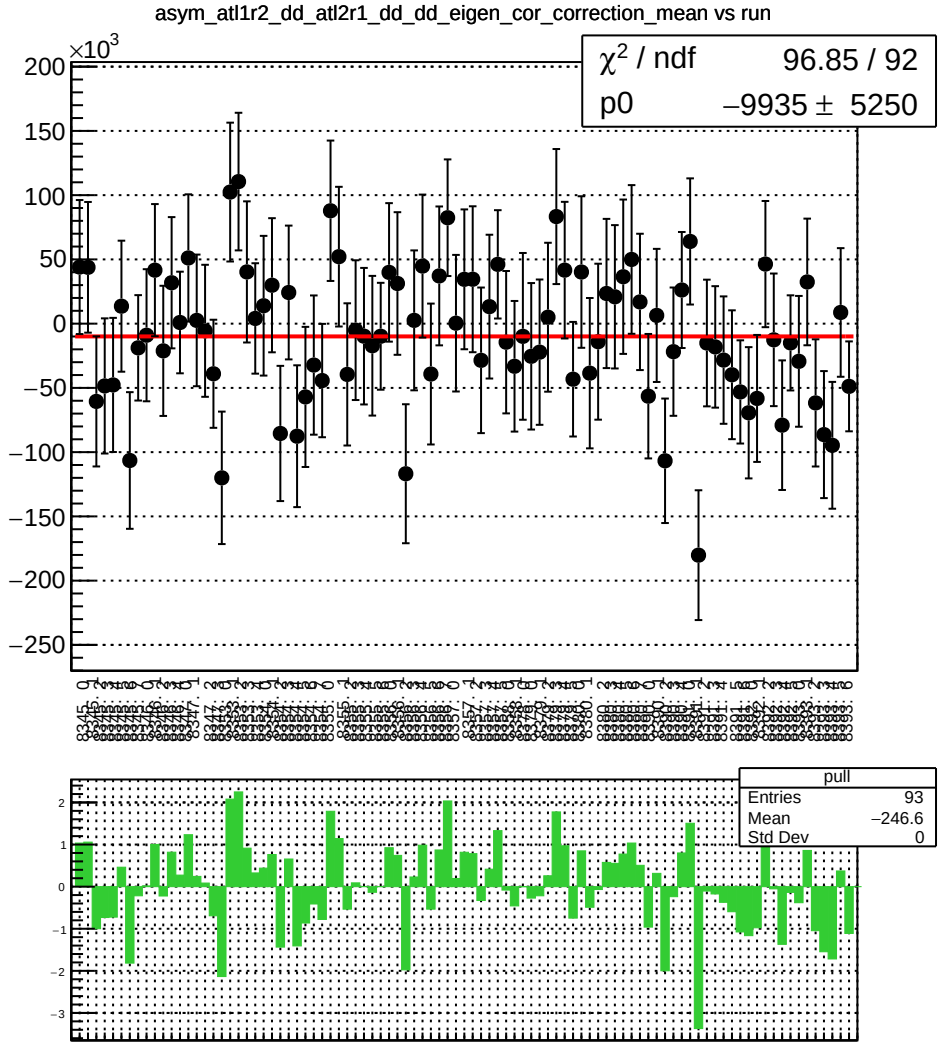

pull1D
Entries 93
Mean 0.01772
Std Dev 1.02

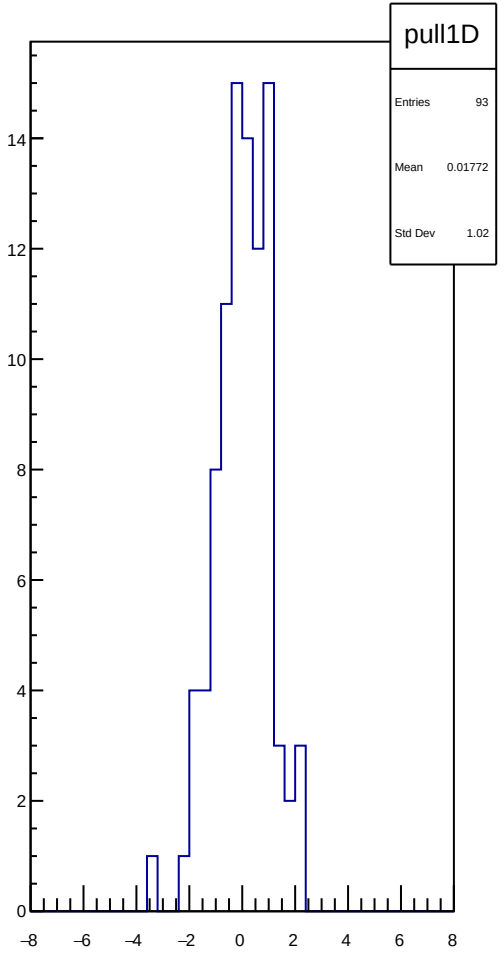

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_rms vs run
χ² / ndf 5310 / 92
p0 4999 ± 3.712
5800
5600
5400
5200
5000
4800
4600
4400

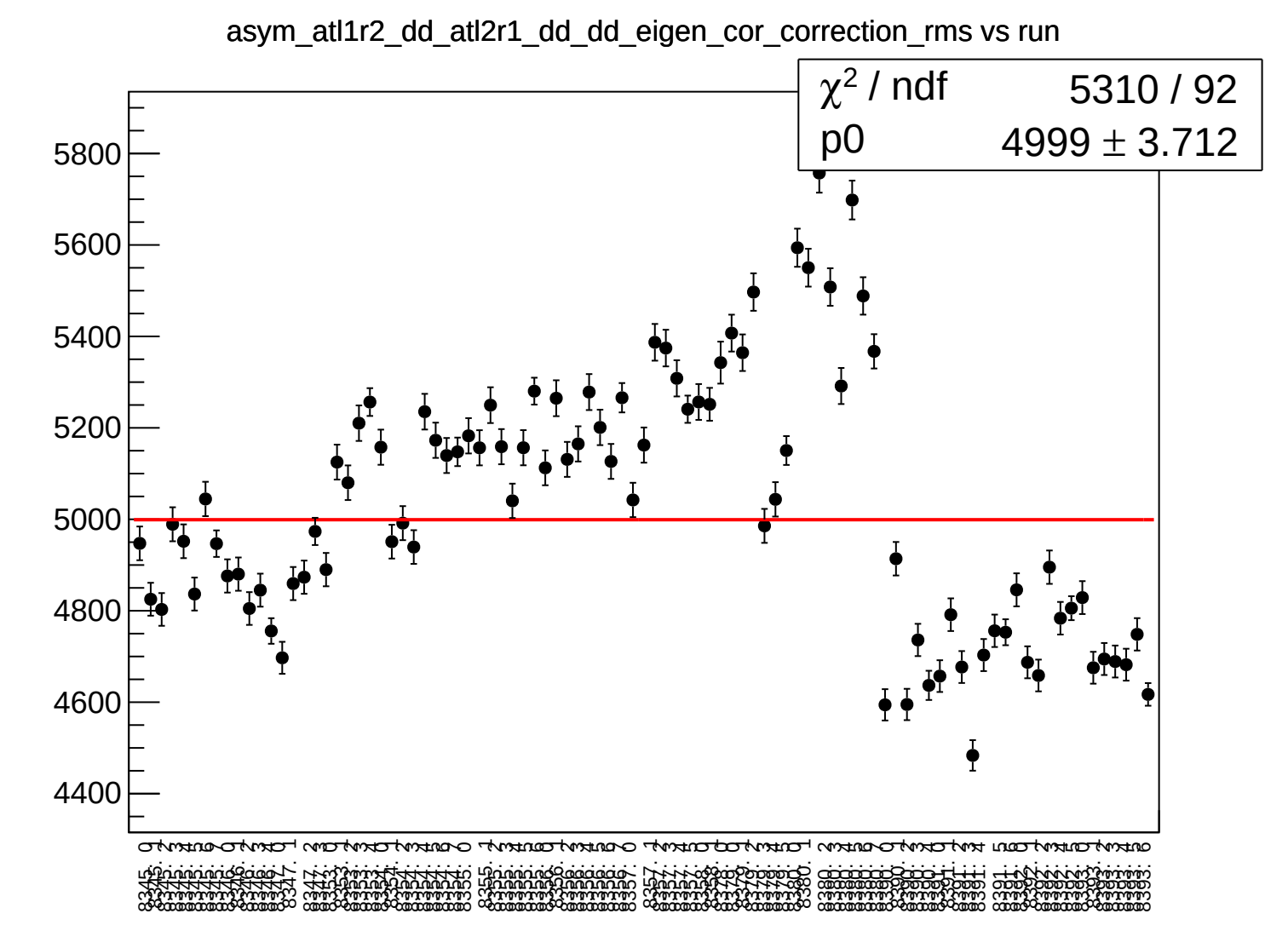

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 100 / 92
p0 −2251 ± 1361
pull
Entries 93
Mean −35.98
Std Dev 0

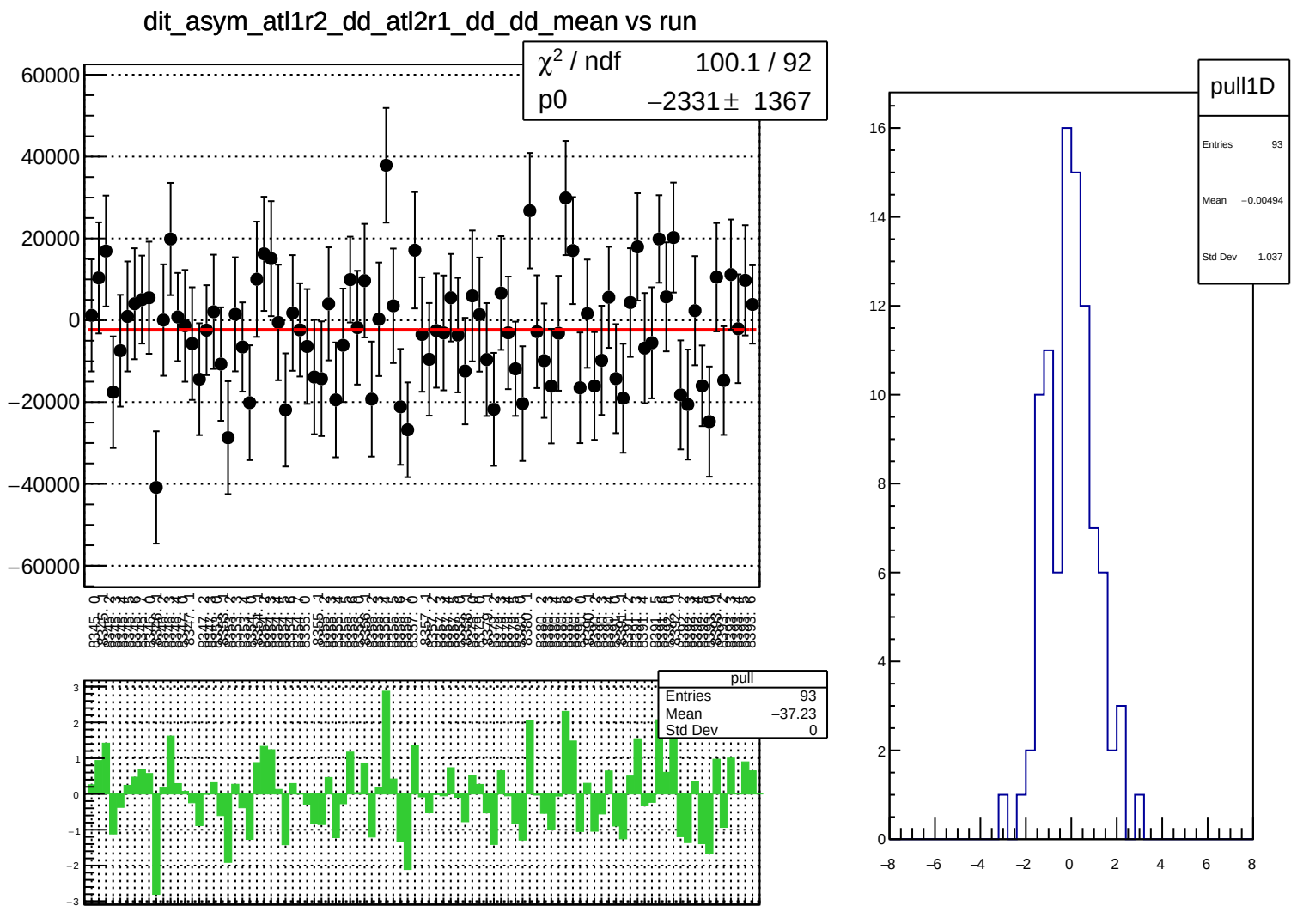

pull1D
Entries 93
Mean −0.00511
Std Dev 1.037

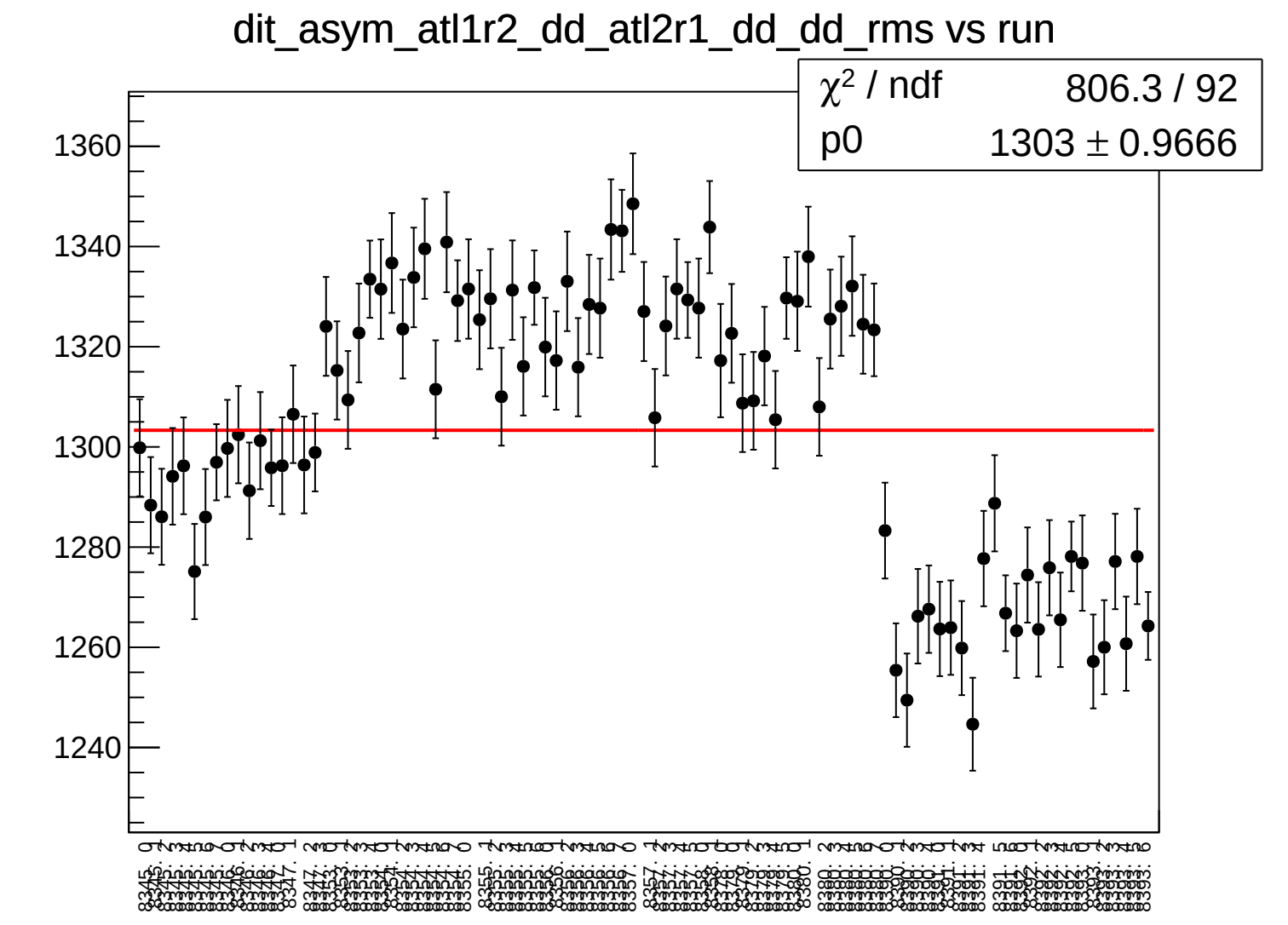

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 797.8 / 92
p0 1298 ± 0.9625
1360
1340
1320
1300
1280
1260
1240
1220

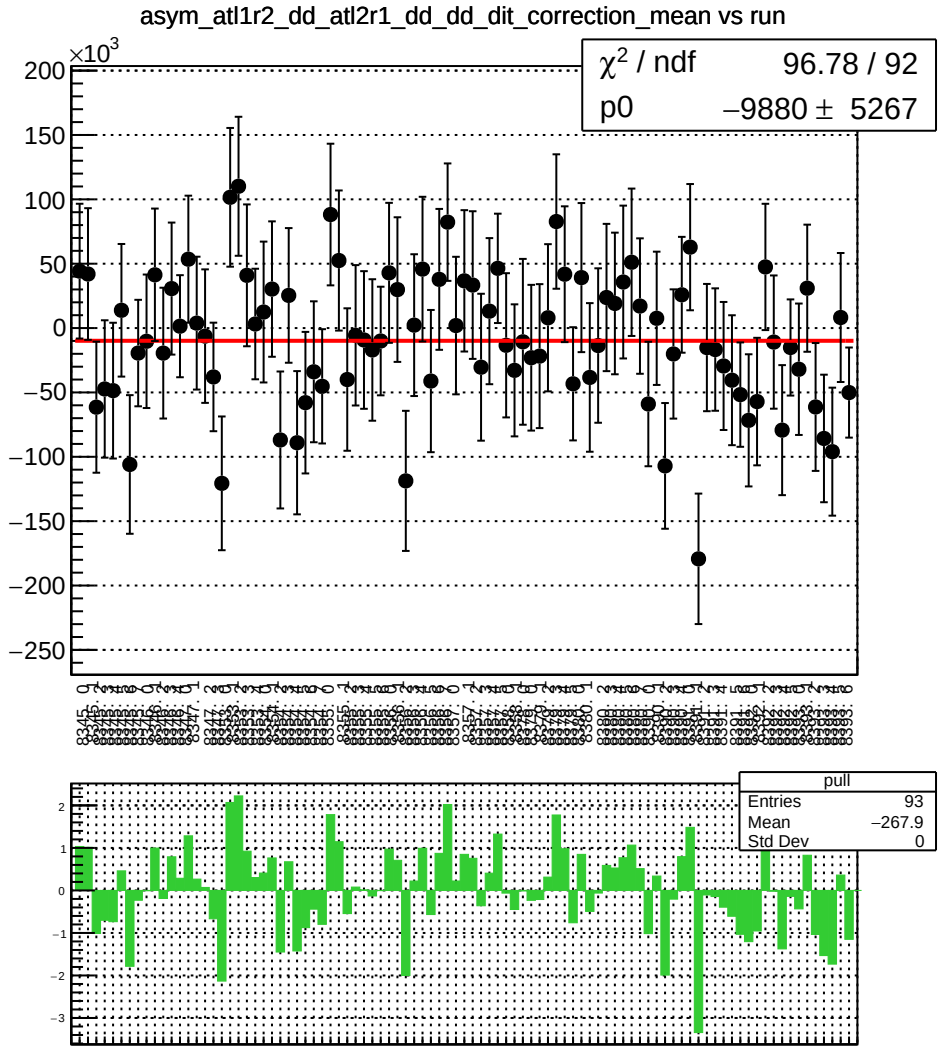

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 96.85 / 92
p0 −9935 ± 5250
pull
Entries 93
Mean −246.6
Std Dev 0

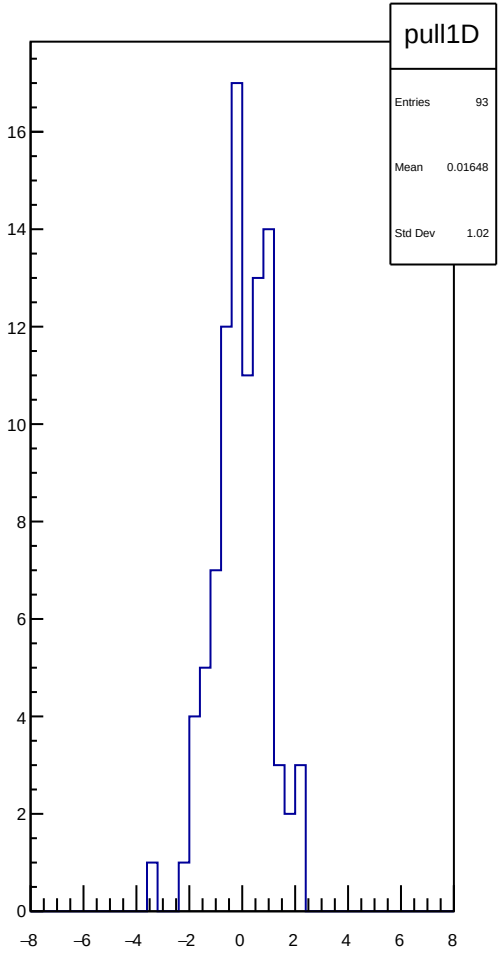

pull1D
Entries 93
Mean 0.01772
Std Dev 1.02

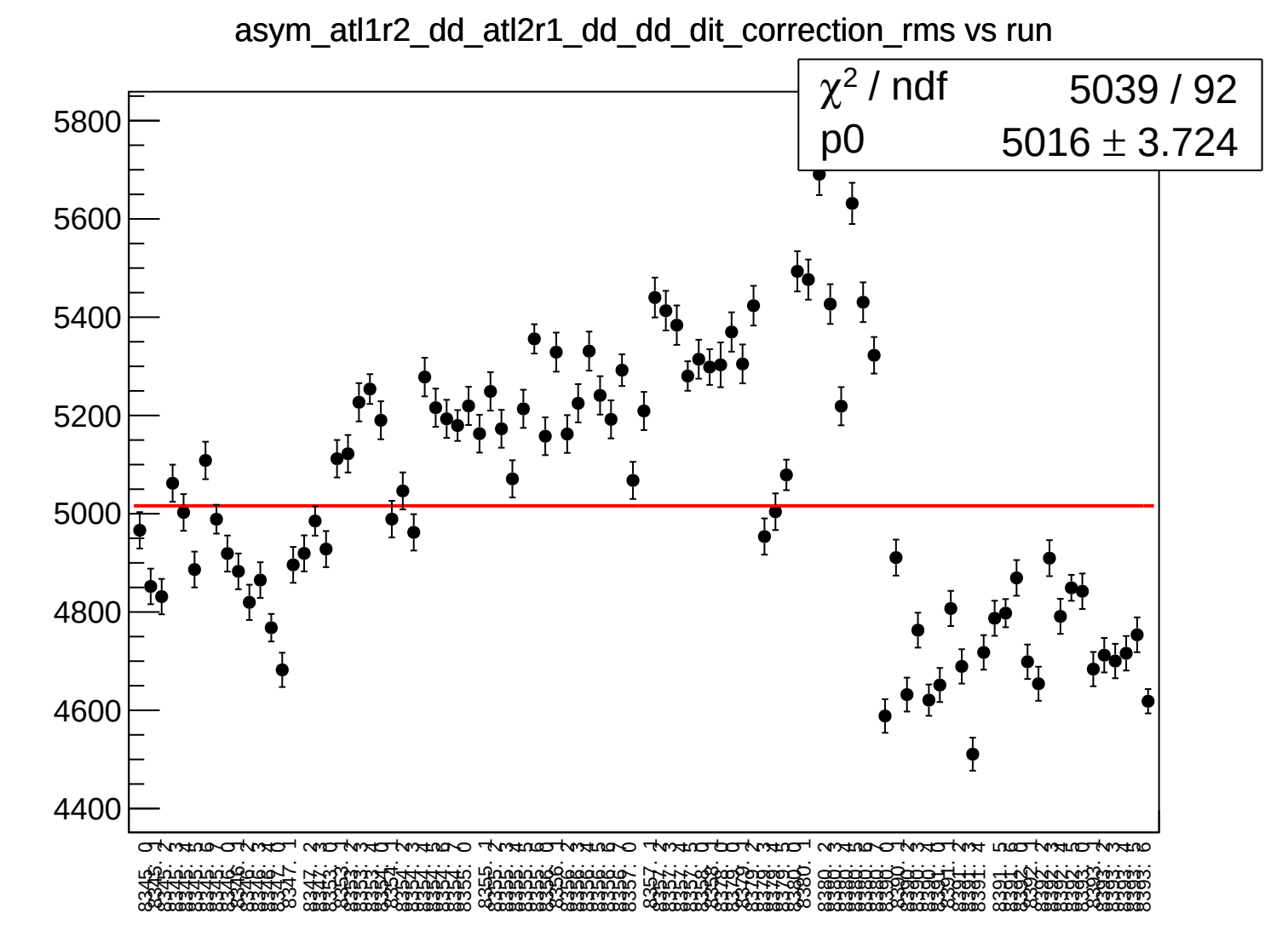

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 5310 / 92
p0 4999 ± 3.712
5800
5600
5400
5200
5000
4800
4600
4400

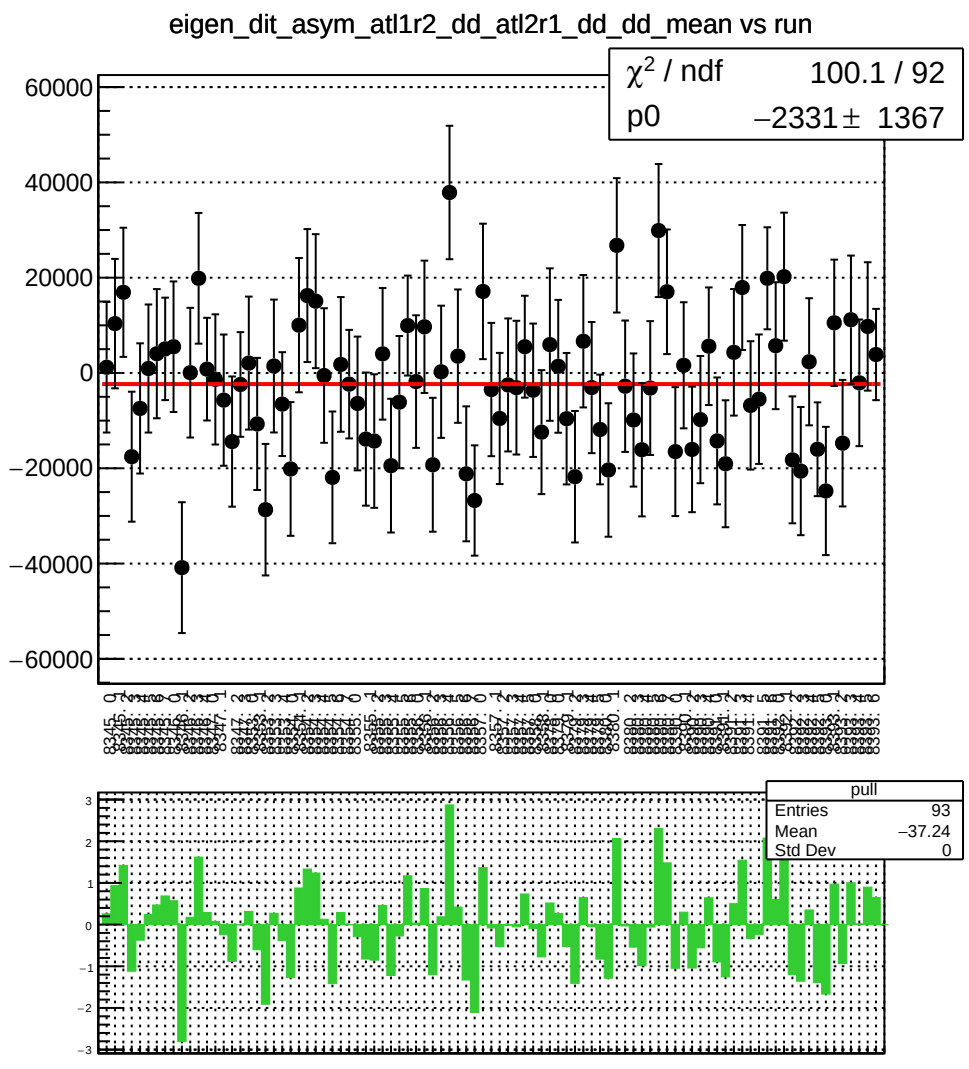

dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 100.1 / 92
p0 −2331 ± 1367
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −37.23
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.00494
Std Dev 1.037
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

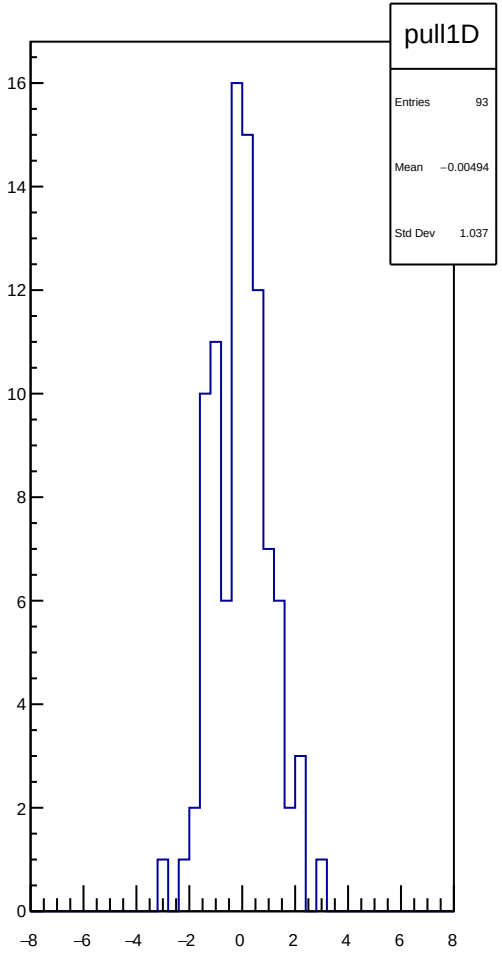

dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 806.3 / 92
p0 1303 ± 0.9666
1360
1340
1320
1300
1280
1260
1240

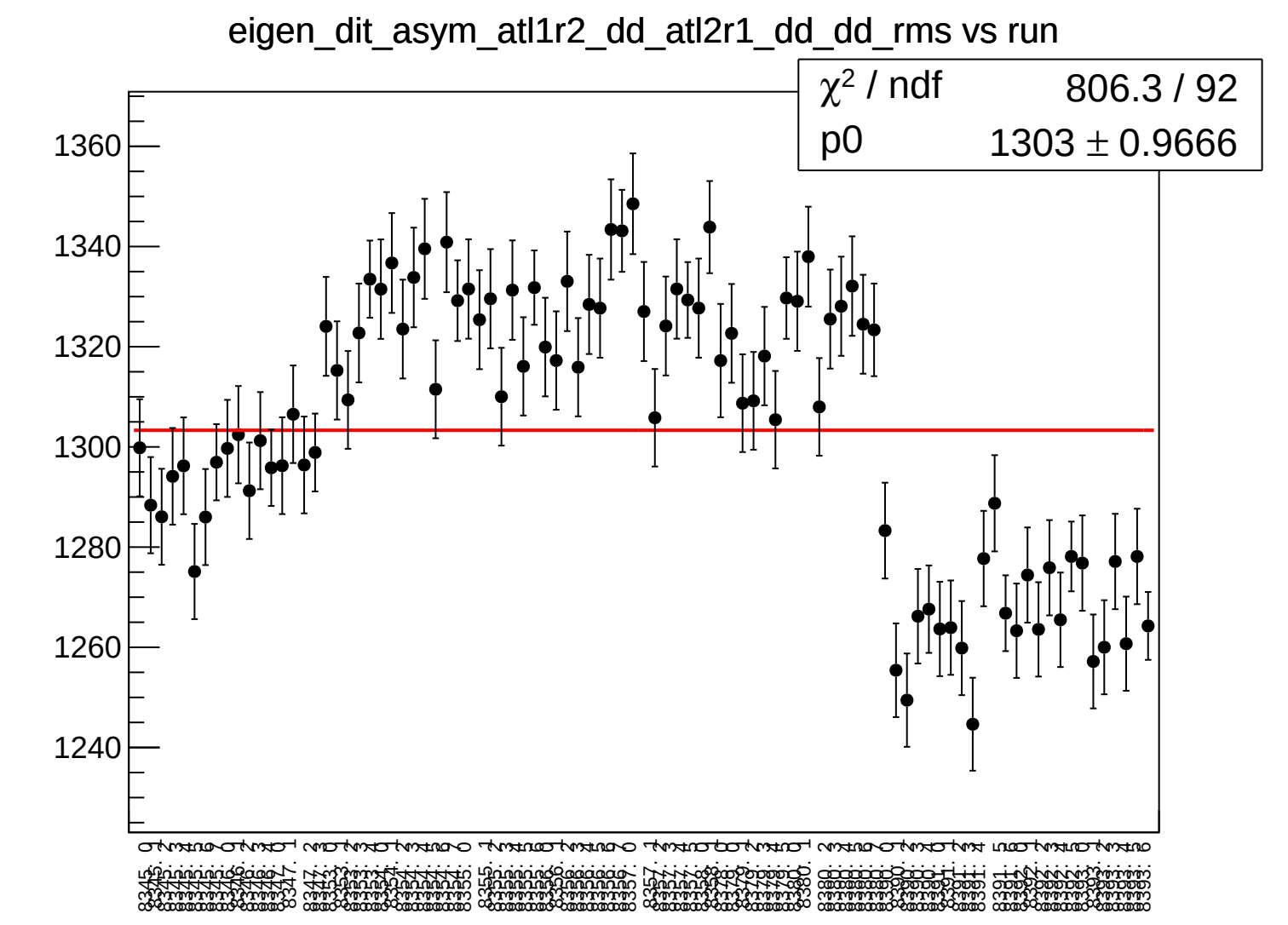

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_mean vs run
×10^3
χ² / ndf 96.78 / 92
p0 −9880 ± 5267
pull
Entries 93
Mean −267.9
Std Dev 0

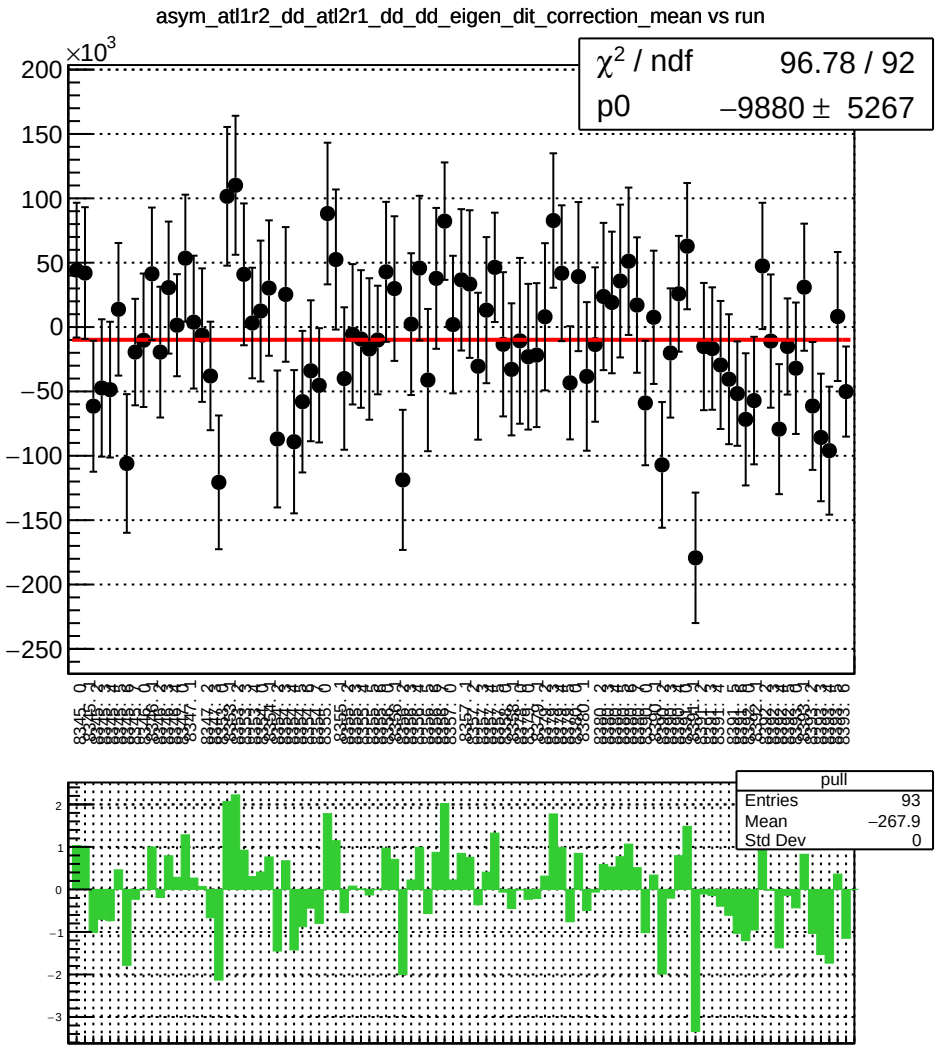

pull1D
Entries 93
Mean 0.01648
Std Dev 1.02

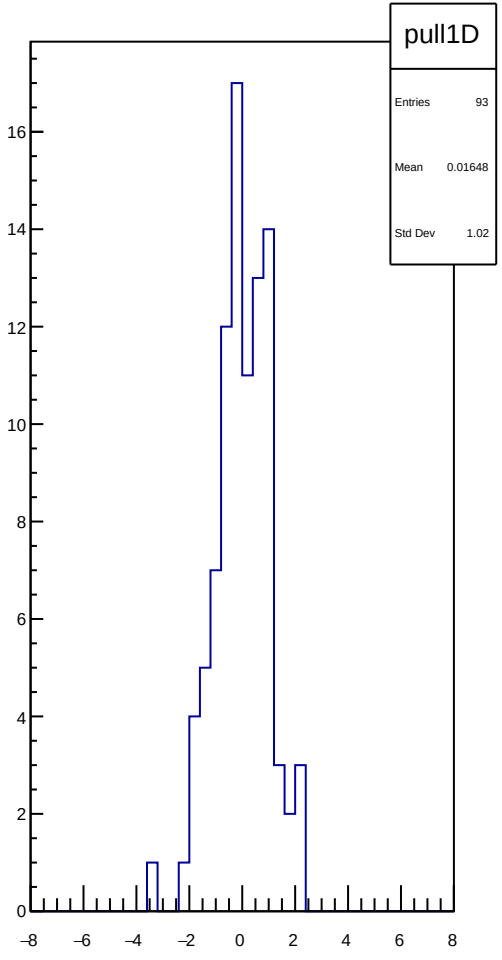

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_rms vs run
χ² / ndf 5039 / 92
p0 5016 ± 3.724
5800
5600
5400
5200
5000
4800
4600
4400

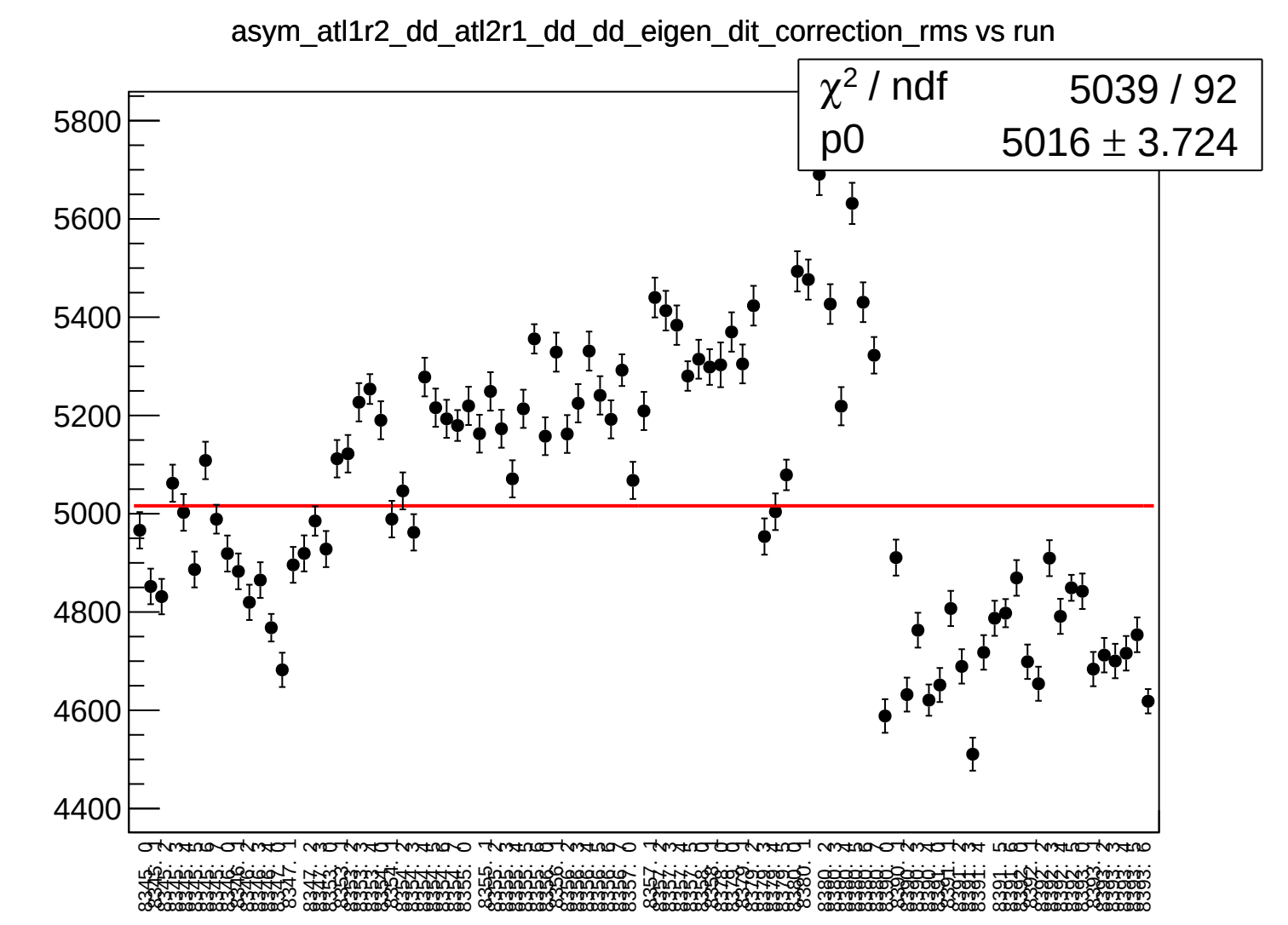

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 100.1 / 92
p0 −2331 ± 1367
pull
Entries 93
Mean −37.24
Std Dev 0

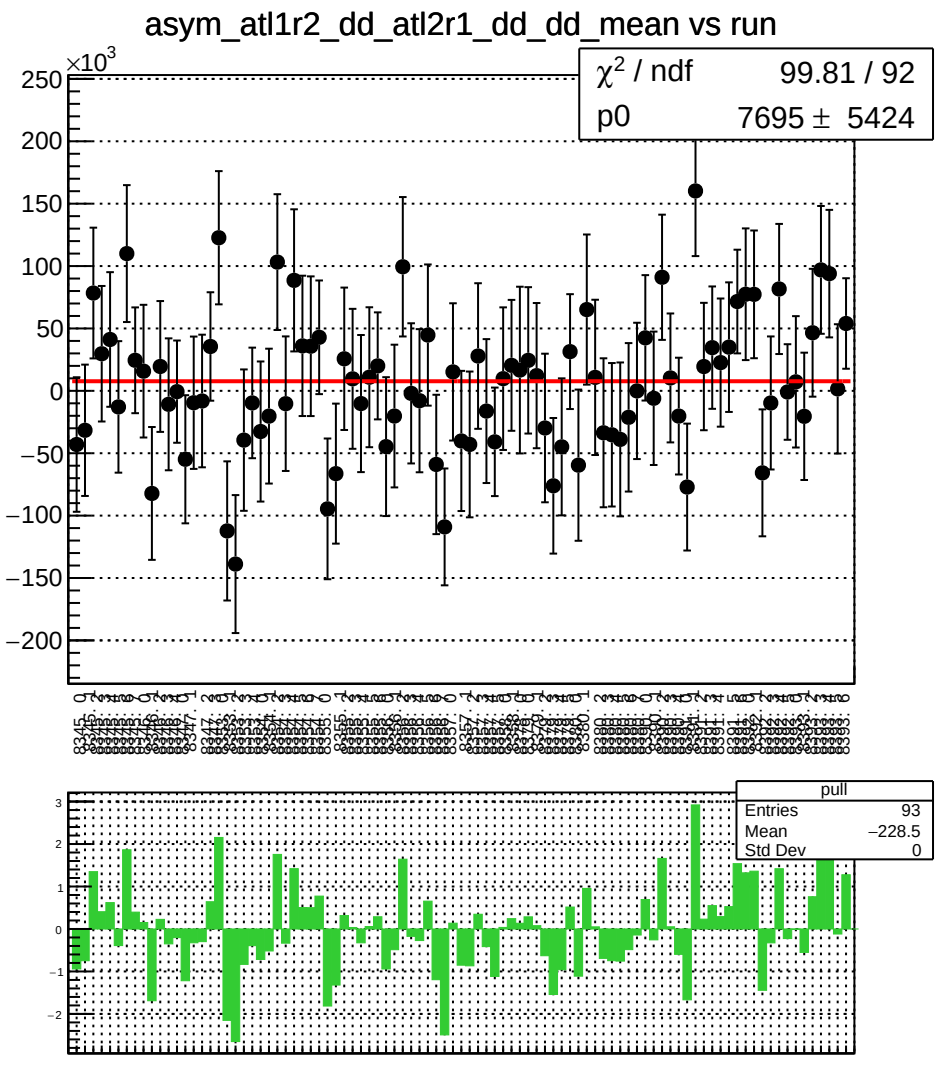

pull1D
Entries 93
Mean −0.00494
Std Dev 1.037

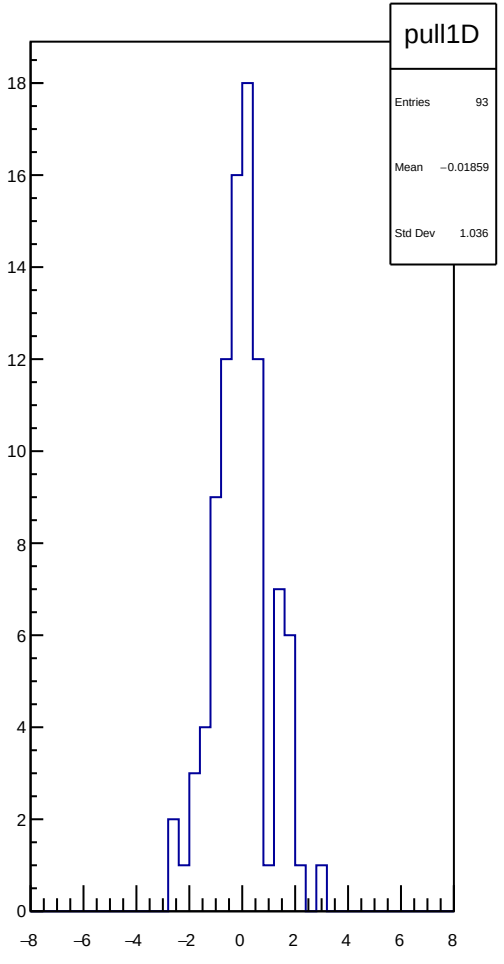

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 806.3 / 92
p0 1303 ± 0.9666
1360
1340
1320
1300
1280
1260
1240

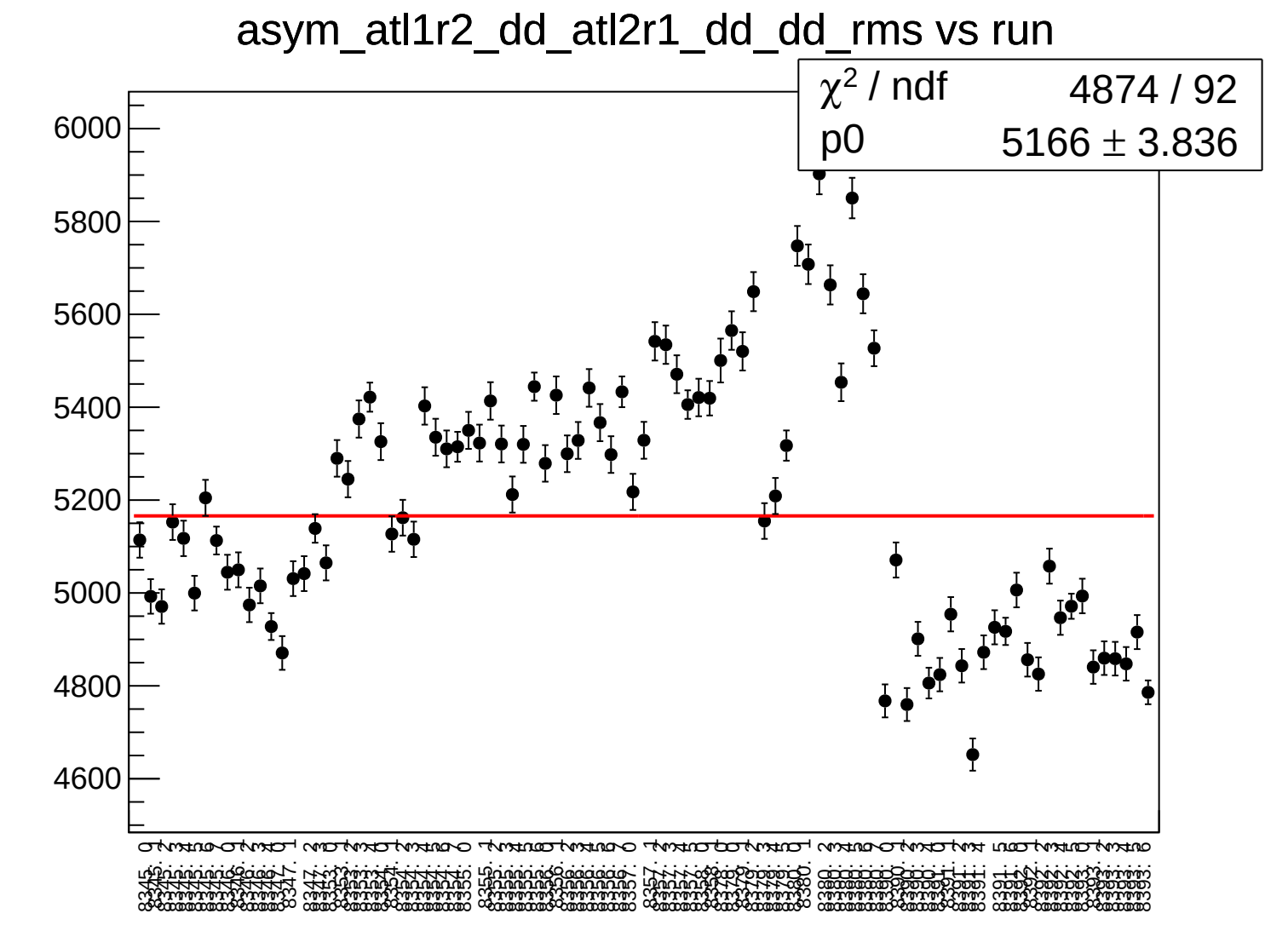

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 96.78 / 92
p0 −9880 ± 5267
pull
Entries 93
Mean −267.9
Std Dev 0

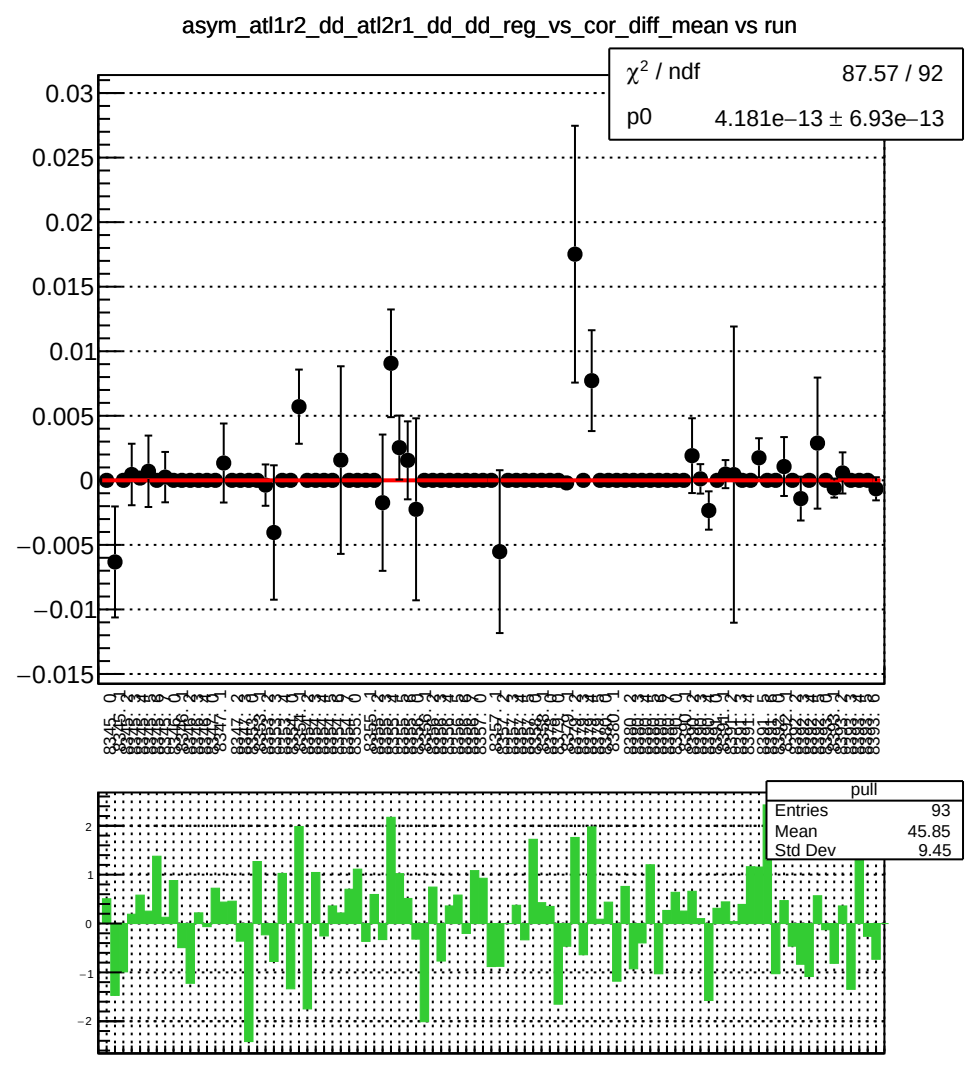

pull1D
Entries 93
Mean 0.01648
Std Dev 1.02

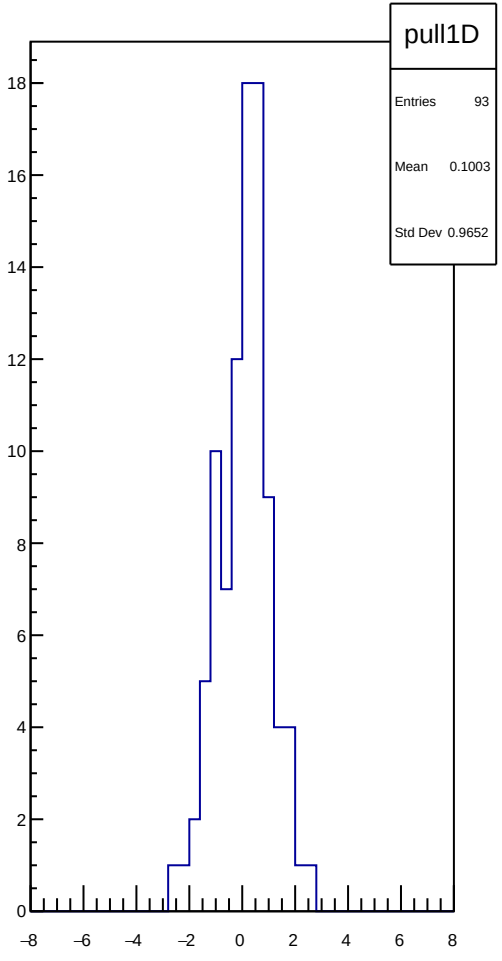

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 5039 / 92
p0 5016 ± 3.724
5800
5600
5400
5200
5000
4800
4600
4400

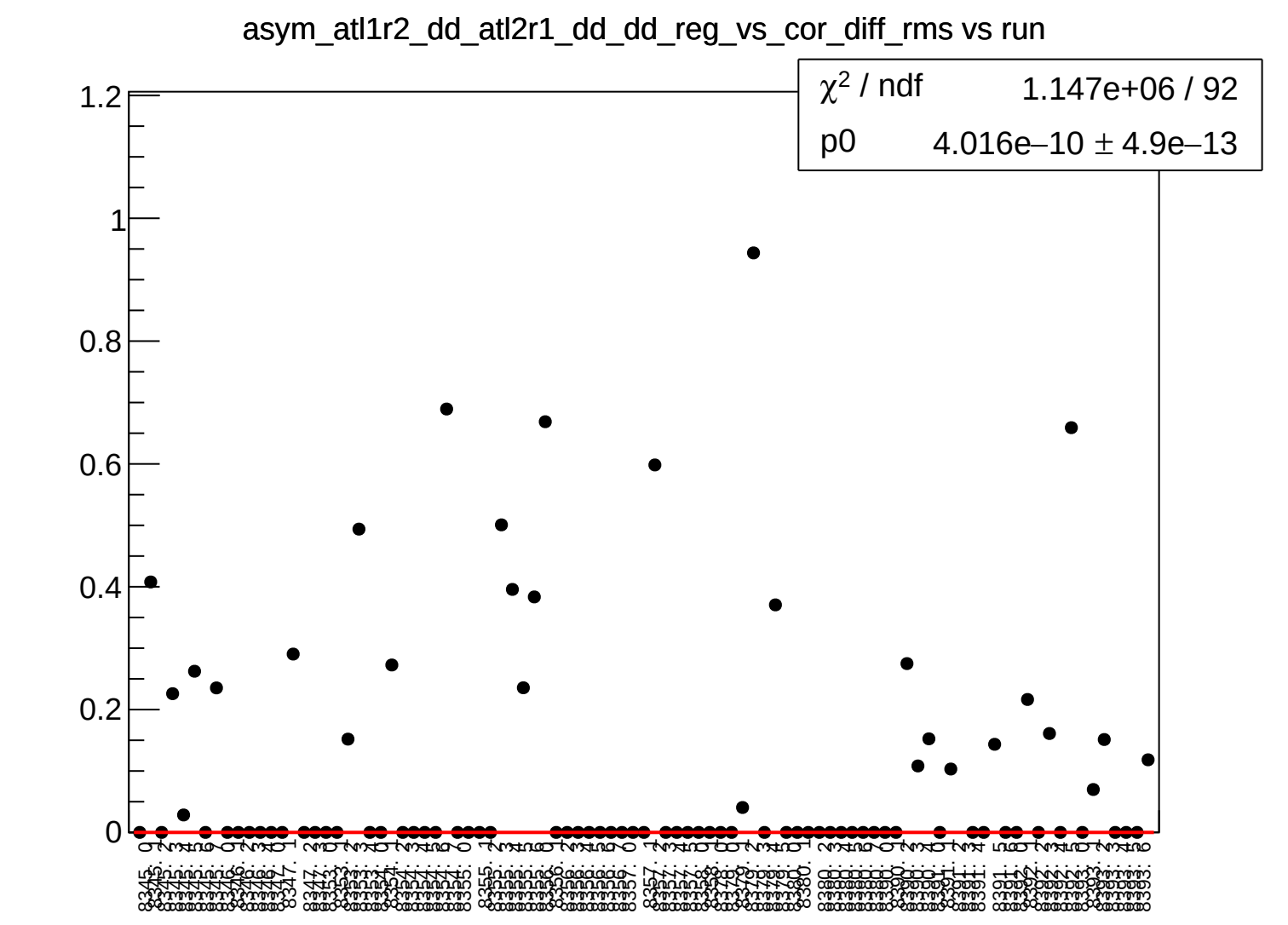

asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 99.81 / 92
p0 7695 ± 5424
×10³
pull
Entries 93
Mean −228.5
Std Dev 0

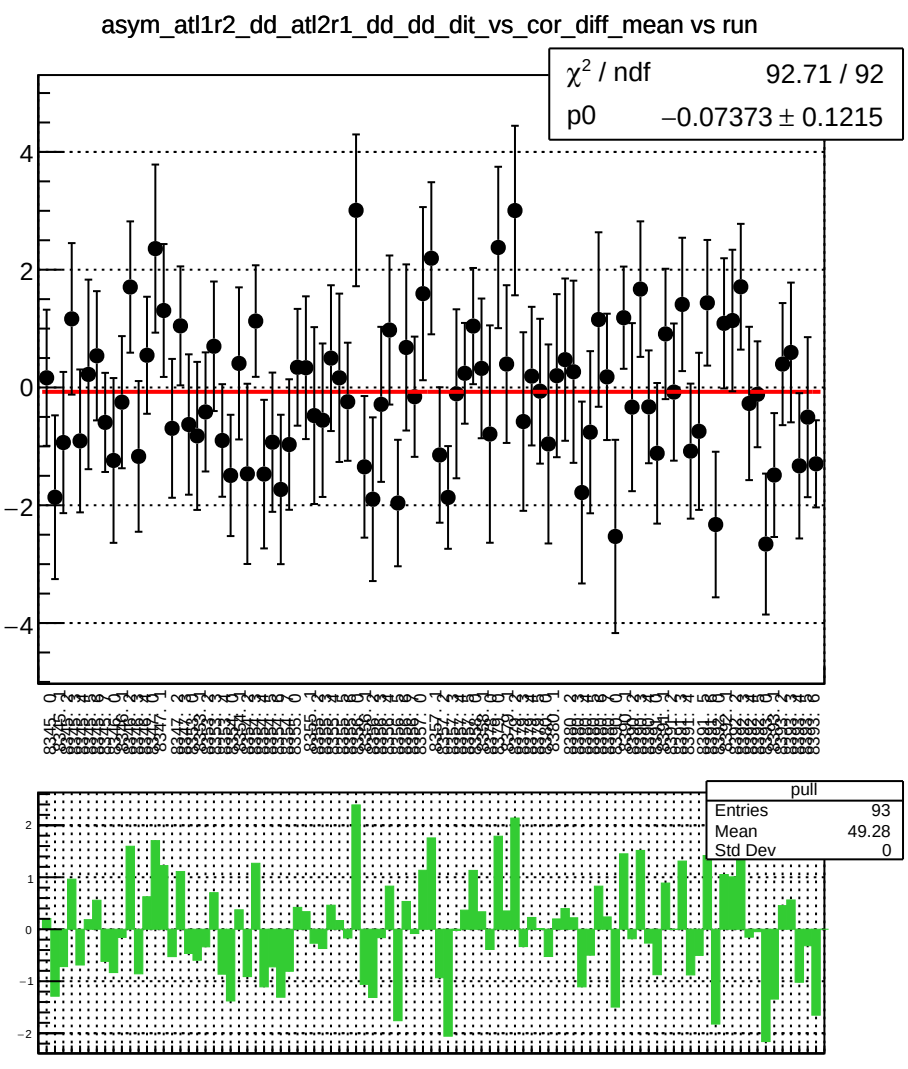

pull1D
Entries 93
Mean −0.01859
Std Dev 1.036

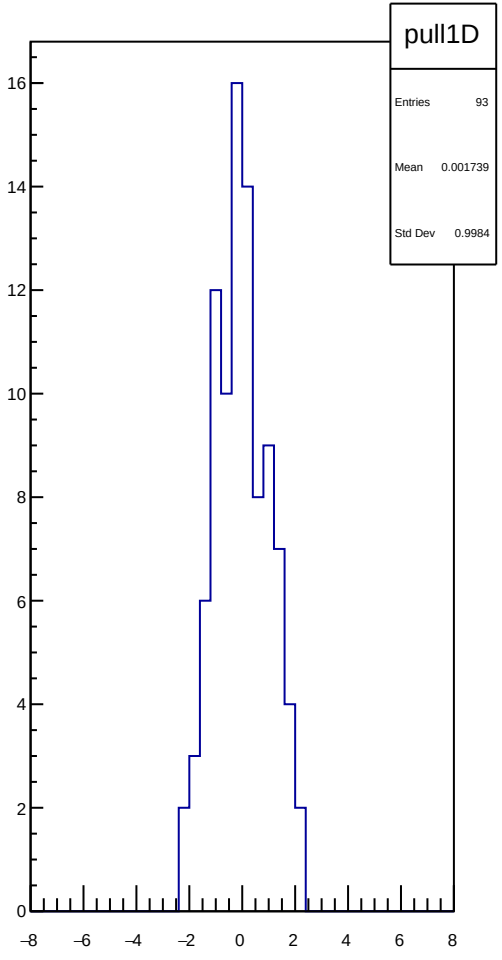

asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 4874 / 92
p0 5166 ± 3.836
6000
5800
5600
5400
5200
5000
4800
4600

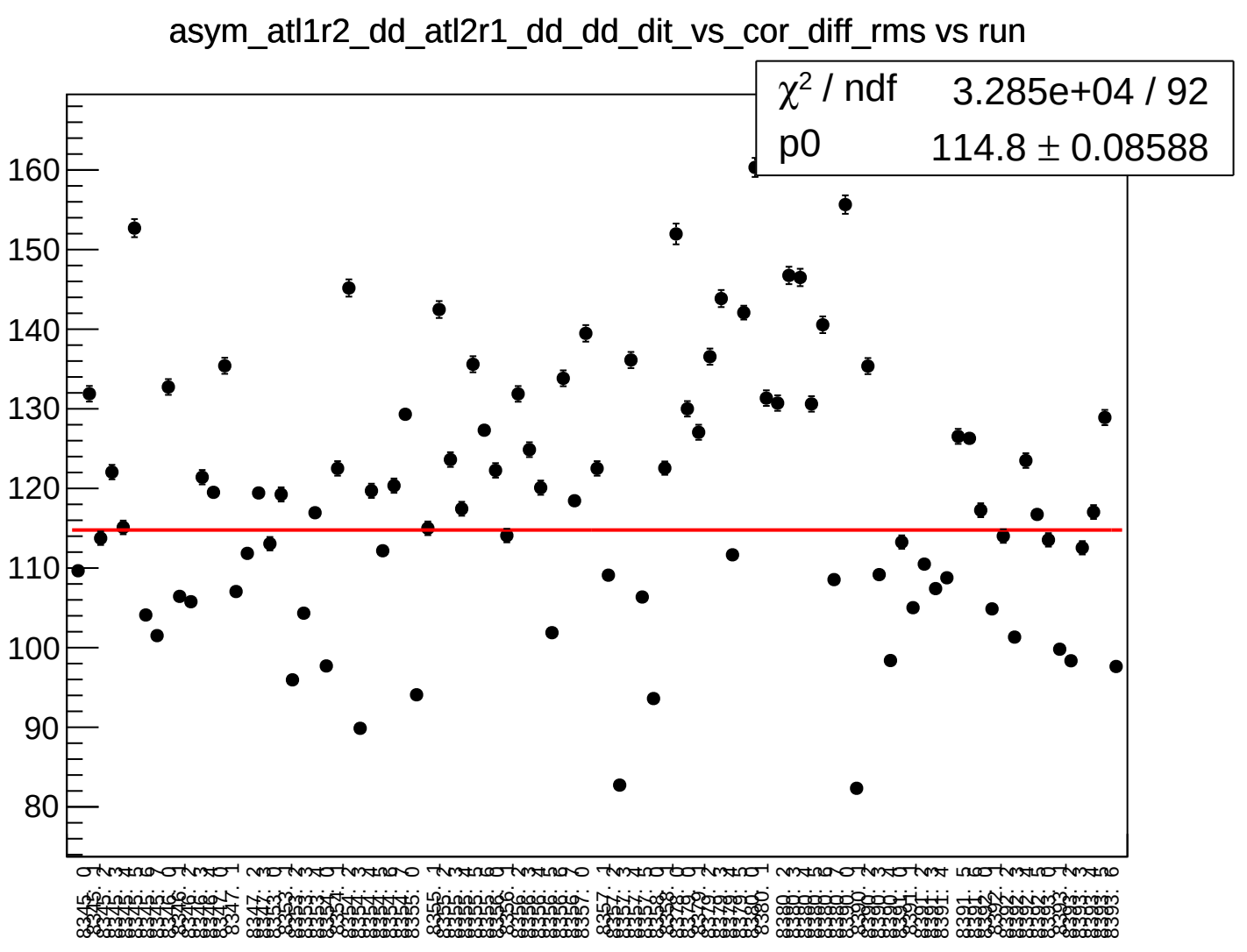

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 87.57 / 92
p0 4.181e−13 ± 6.93e−13
pull
Entries 93
Mean 45.85
Std Dev 9.45

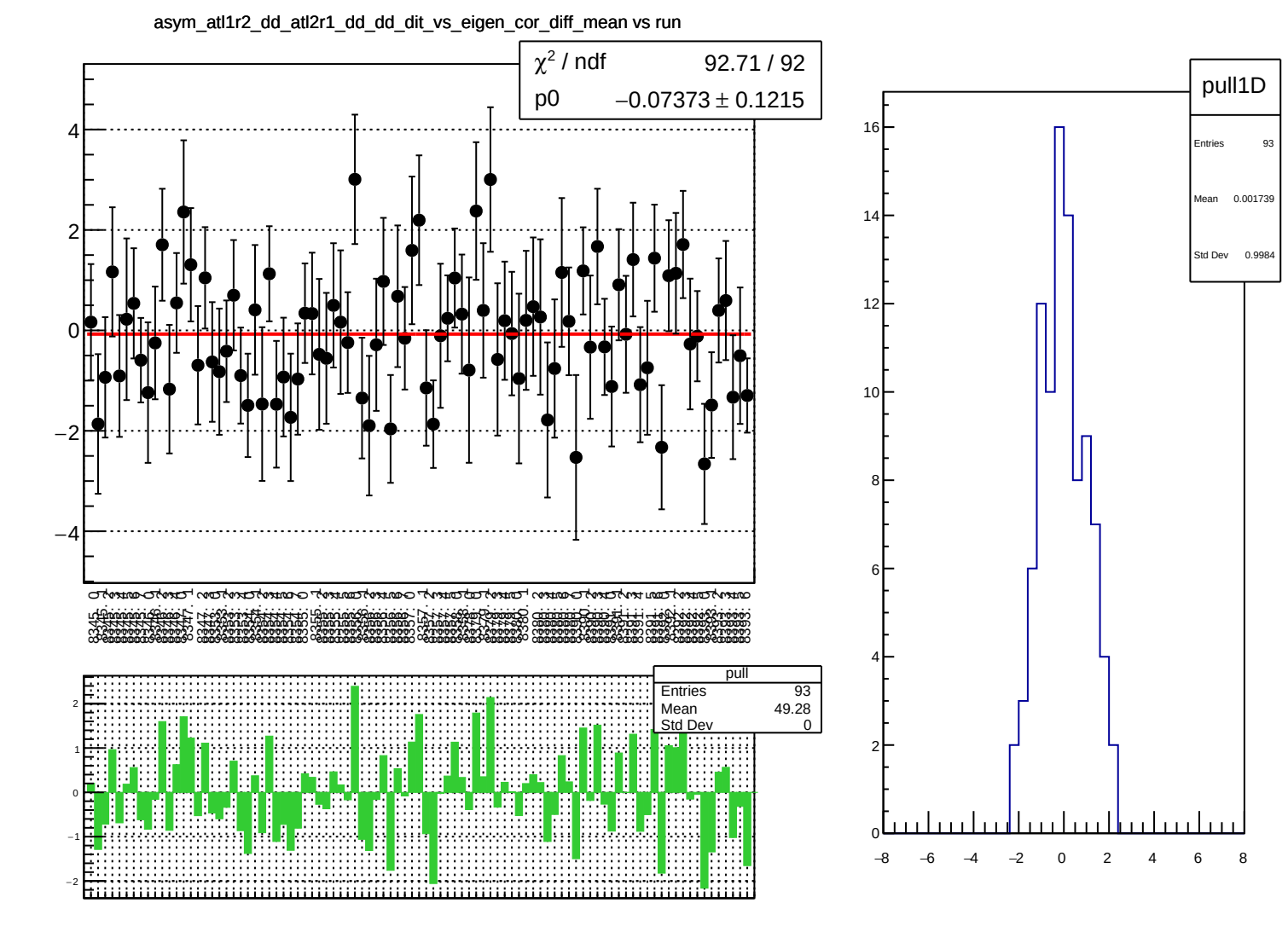

pull1D
Entries 93
Mean 0.1003
Std Dev 0.9652

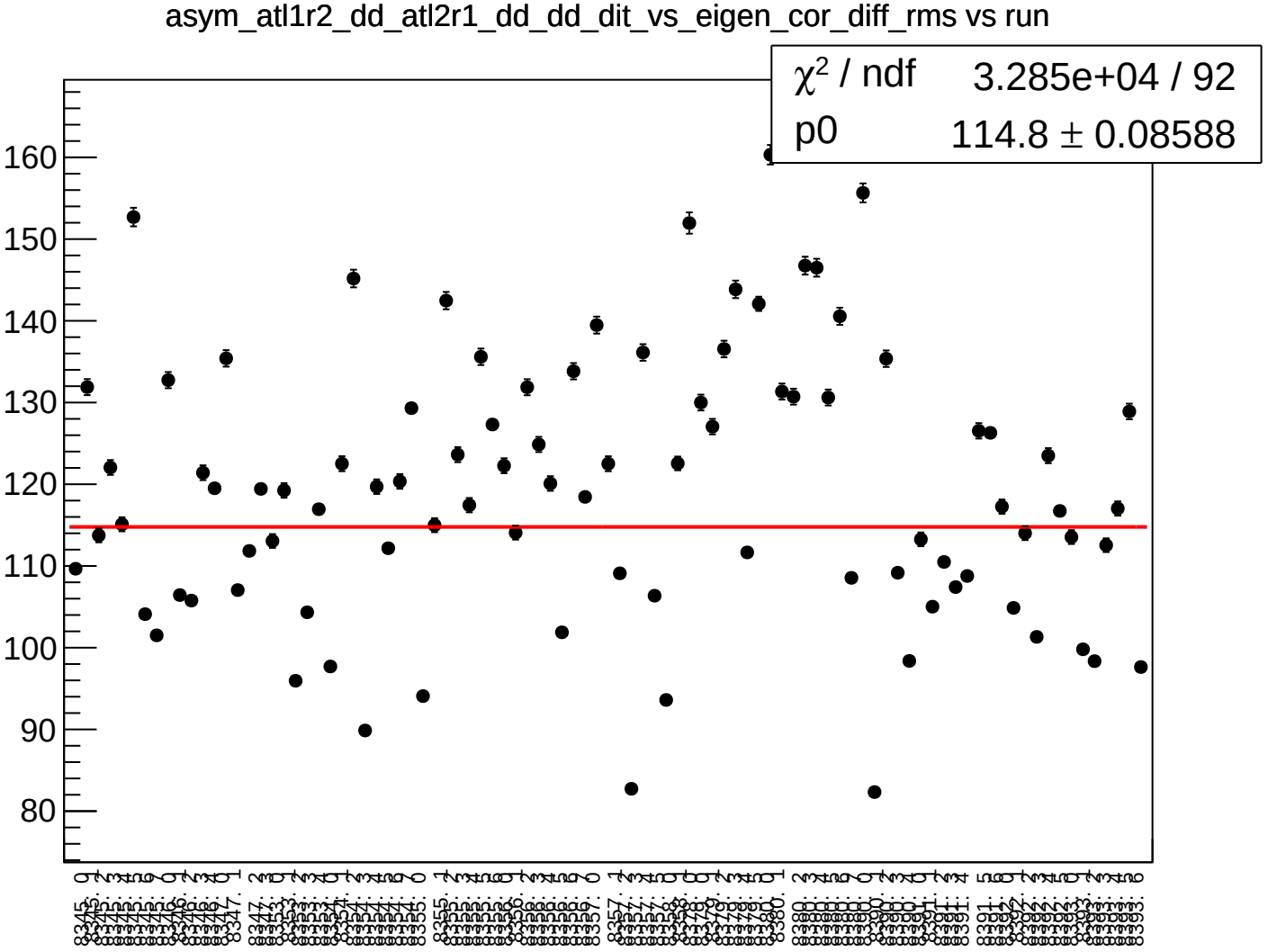

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.147e+06 / 92
p0 4.016e−10 ± 4.9e−13
1.2
1
0.8
0.6
0.4
0.2
0

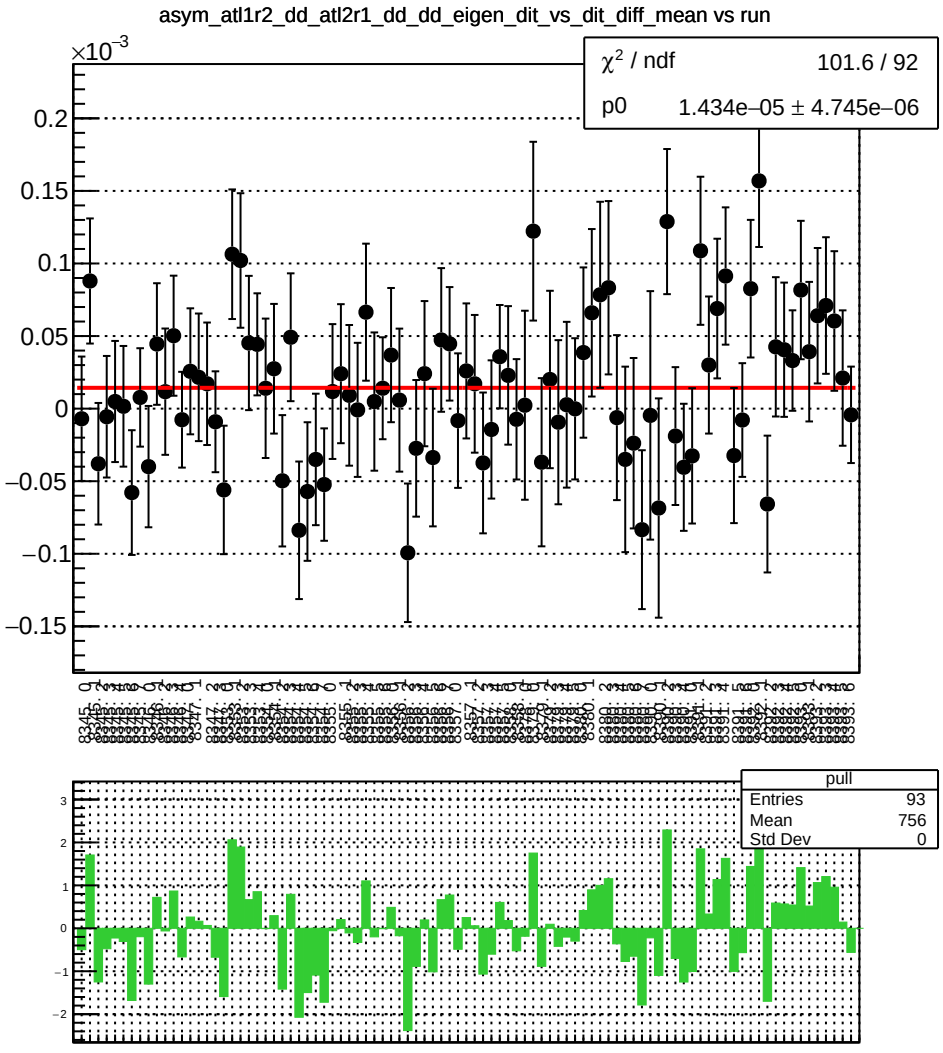

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 92.71 / 92
p0 −0.07373 ± 0.1215
pull
Entries 93
Mean 49.28
Std Dev 0

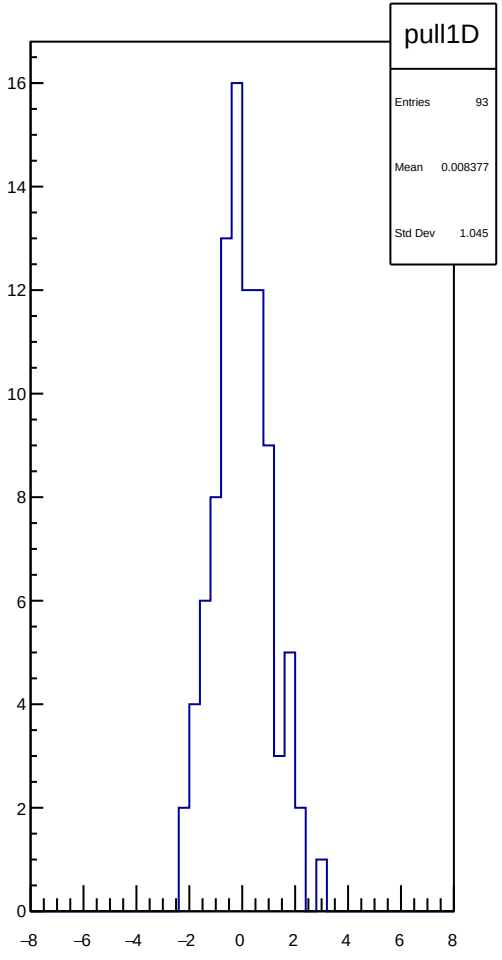

pull1D
Entries 93
Mean 0.001739
Std Dev 0.9984

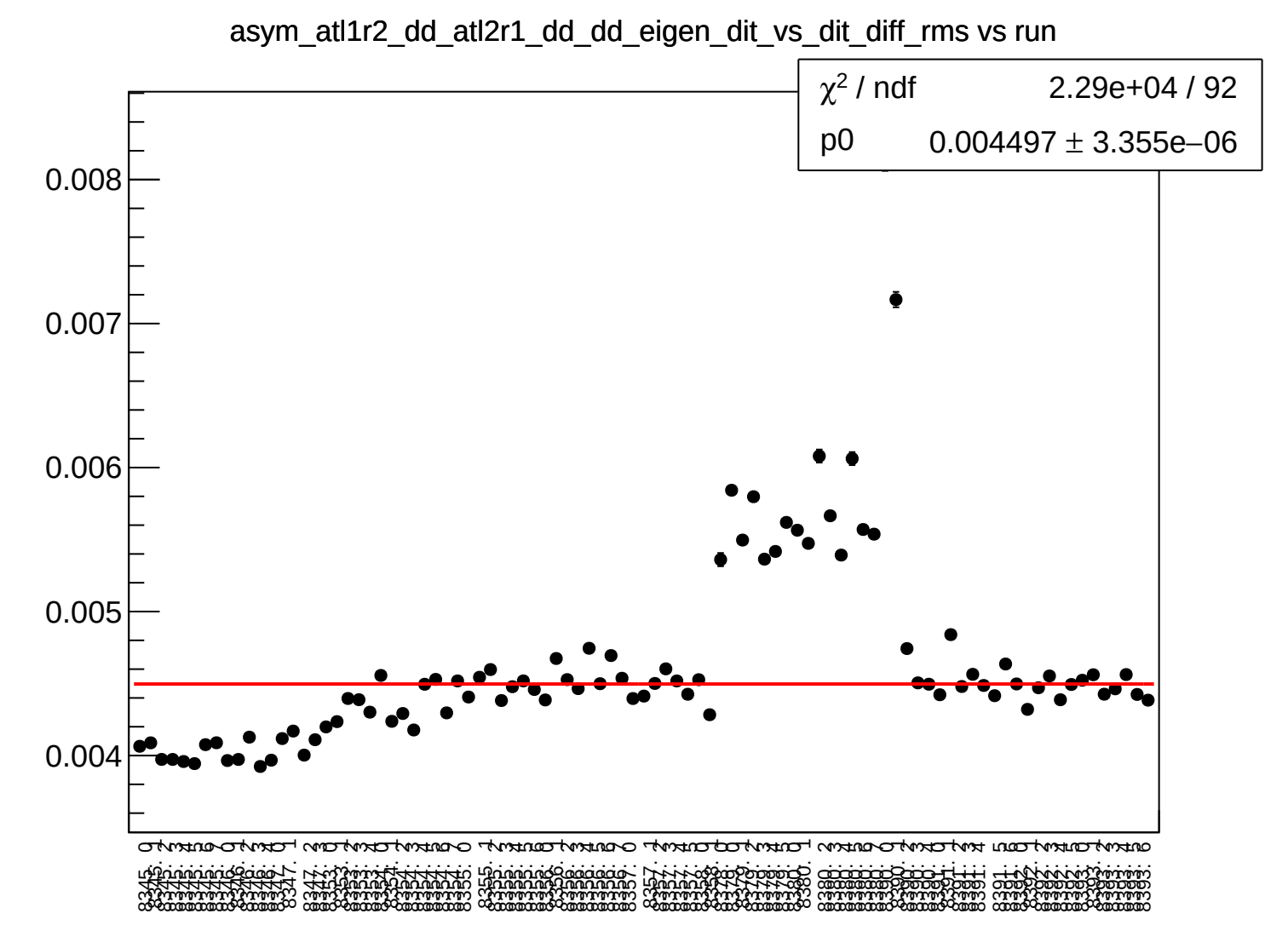

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.285e+04 / 92
p0 114.8 ± 0.08588
160
150
140
130
120
110
100
90
80

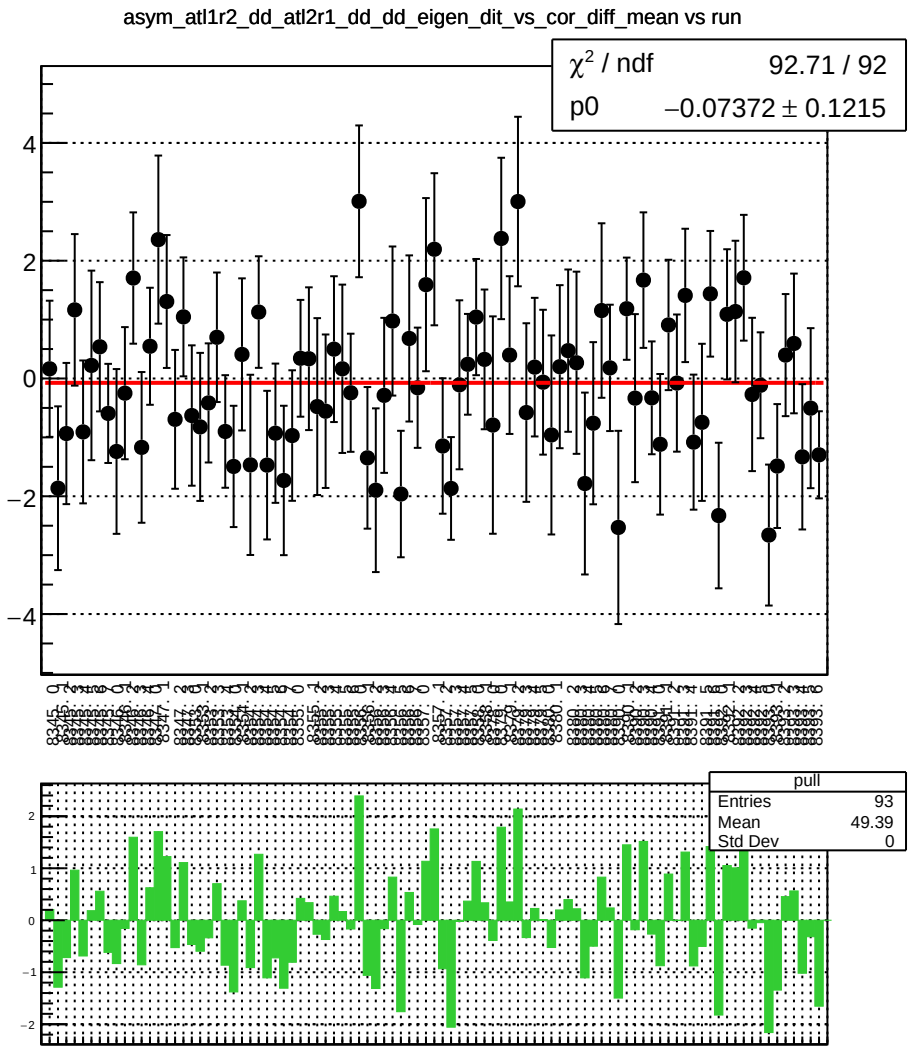

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.71 / 92
p0 −0.07373 ± 0.1215
pull
Entries 93
Mean 49.28
Std Dev 0
pull1D
Entries 93
Mean 0.001739
Std Dev 0.9984

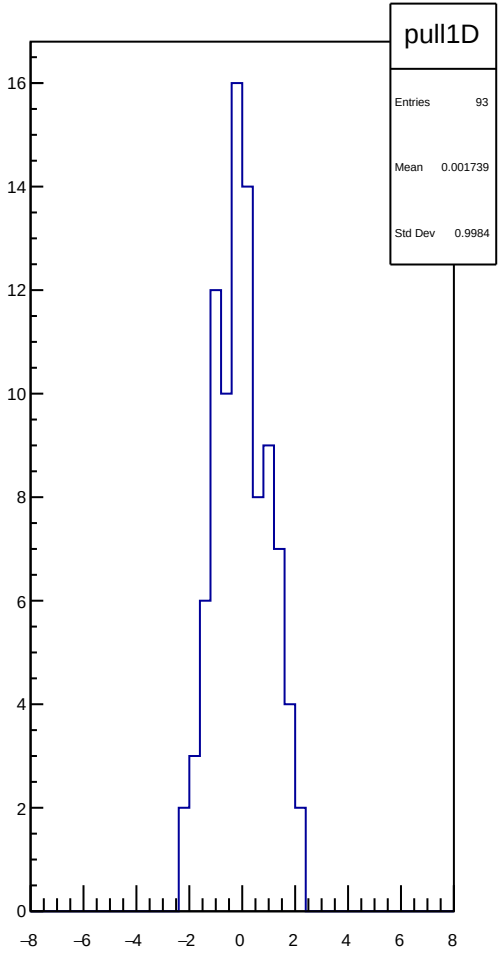

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.285e+04 / 92
p0 114.8 ± 0.08588
160
150
140
130
120
110
100
90
80

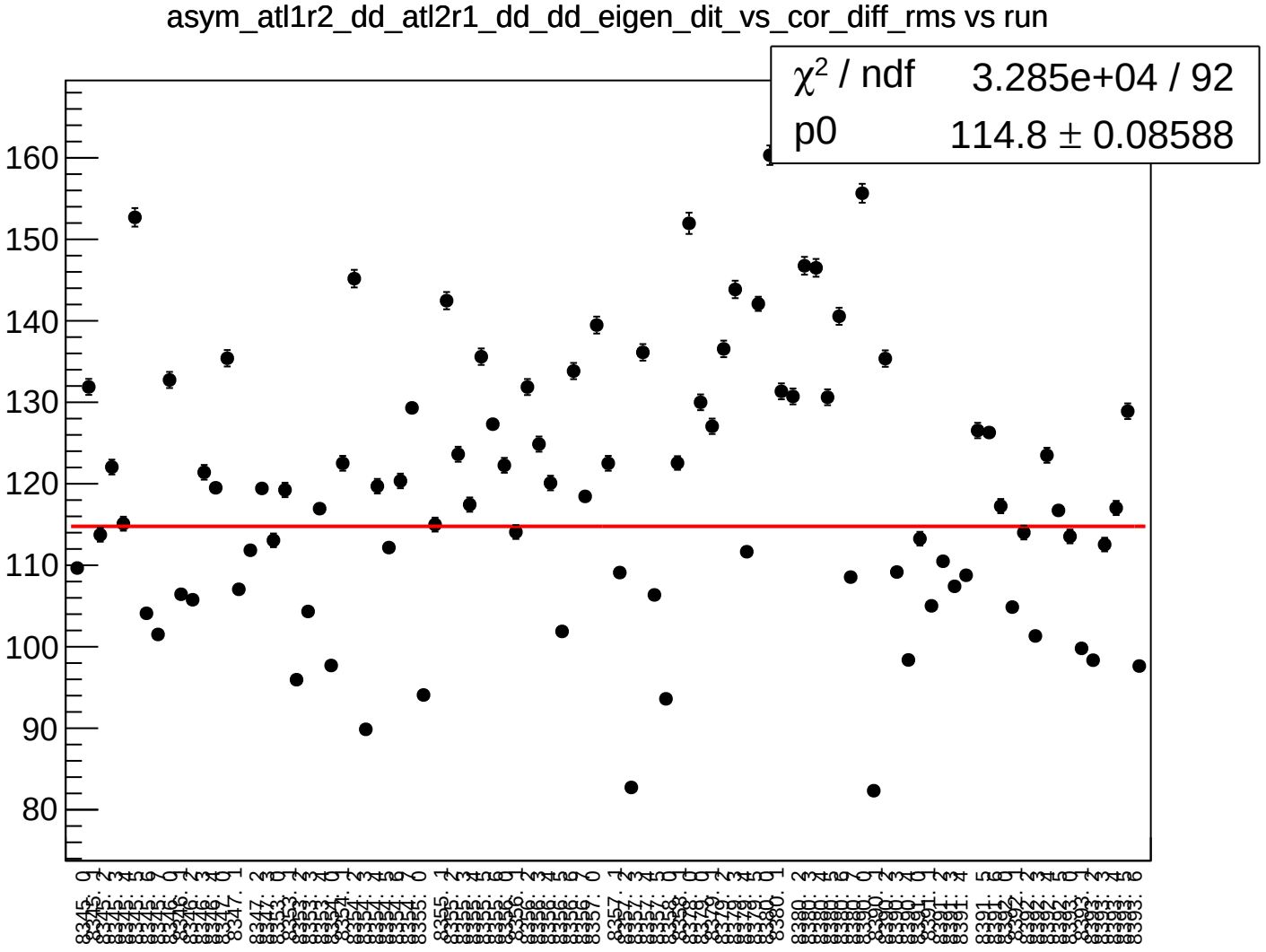

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 101.6 / 92
p0 1.434e−05 ± 4.745e−06
pull
Entries 93
Mean 756
Std Dev 0

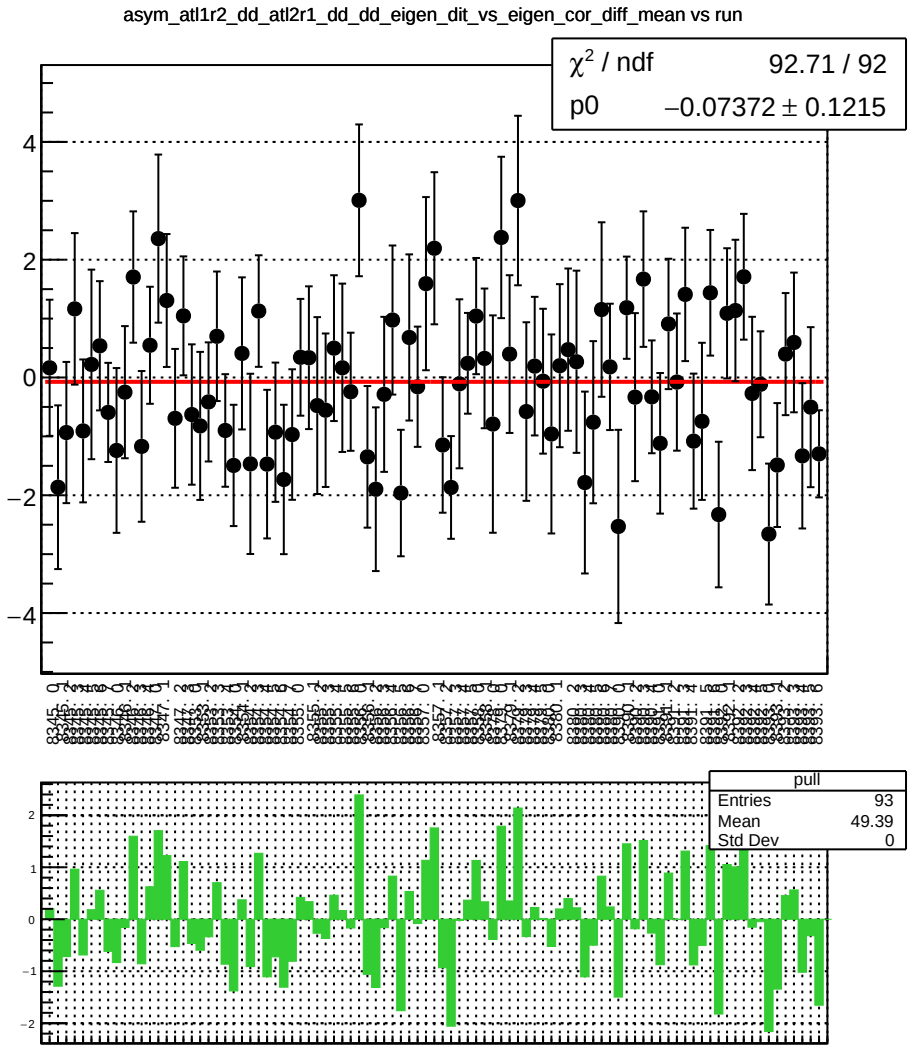

pull1D
Entries 93
Mean 0.008377
Std Dev 1.045

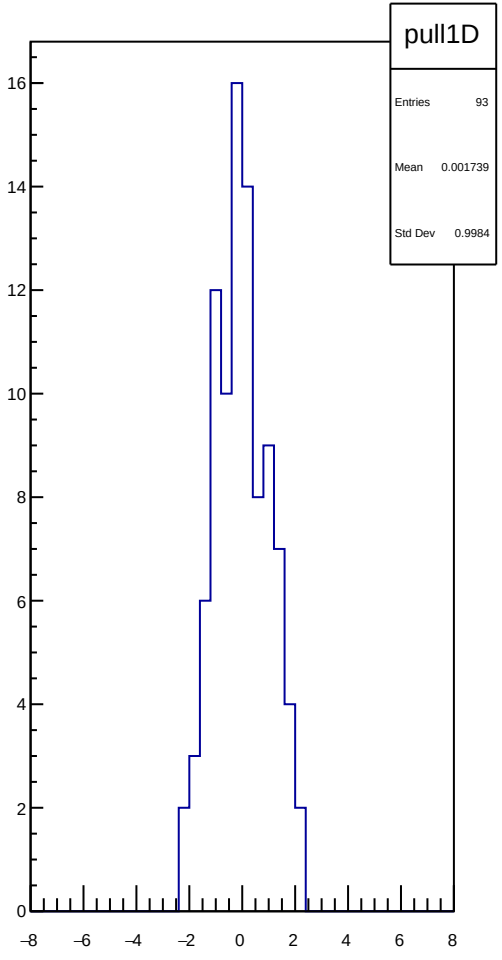

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.29e+04 / 92
p0 0.004497 ± 3.355e−06
0.008
0.007
0.006
0.005
0.004

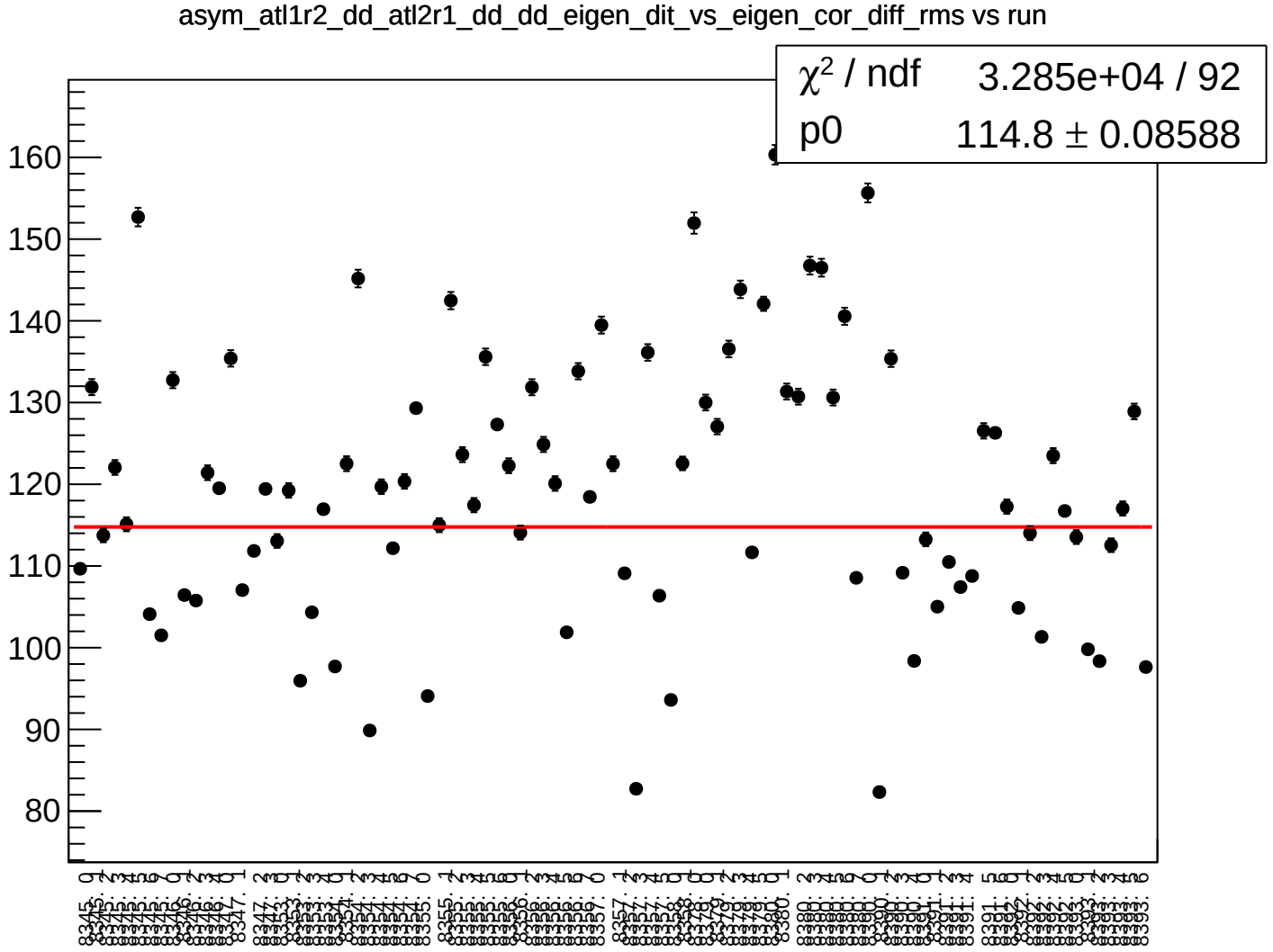

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.71 / 92
p0 −0.07372 ± 0.1215
pull
Entries 93
Mean 49.39
Std Dev 0

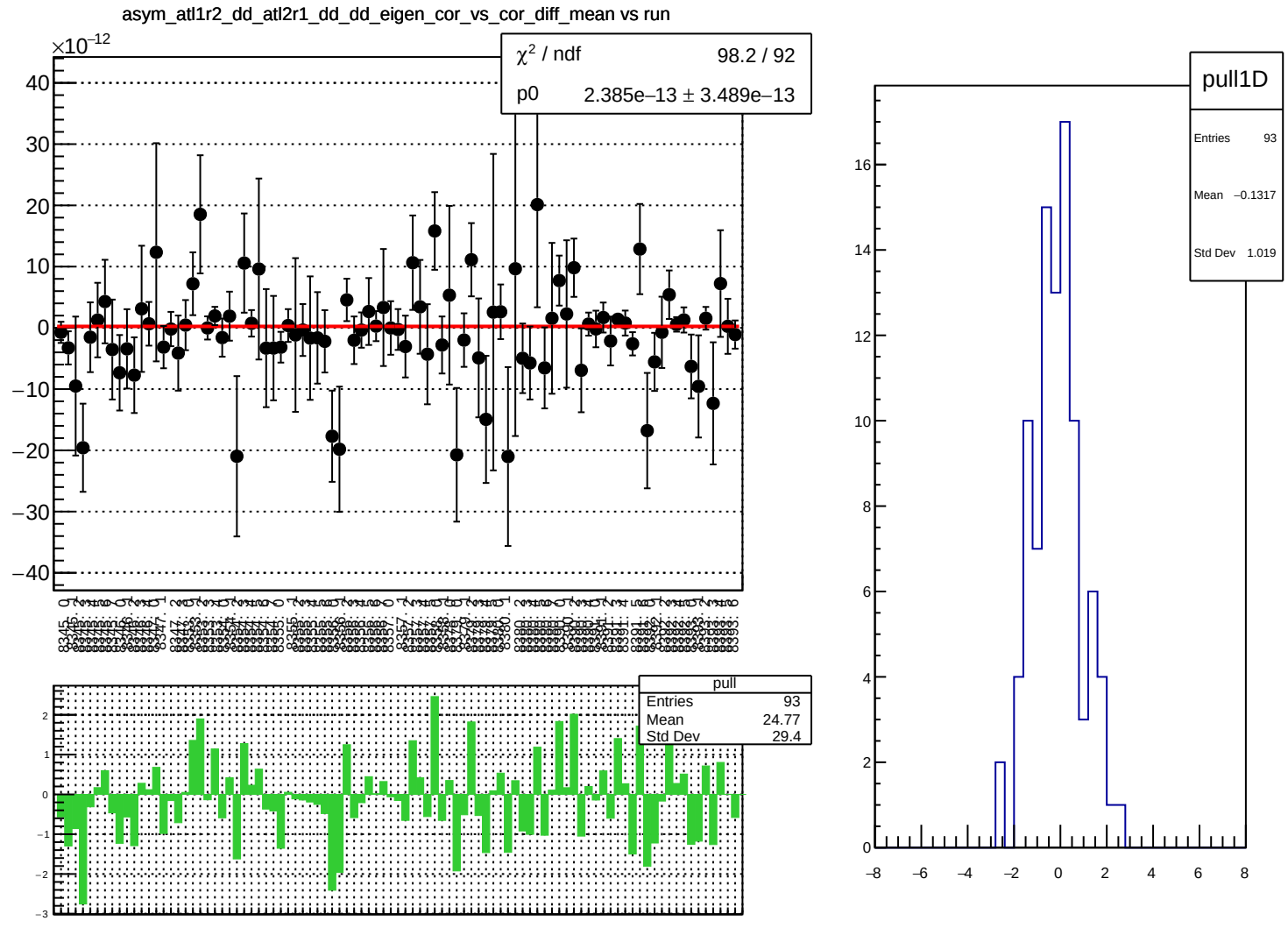

pull1D
Entries 93
Mean 0.001739
Std Dev 0.9984

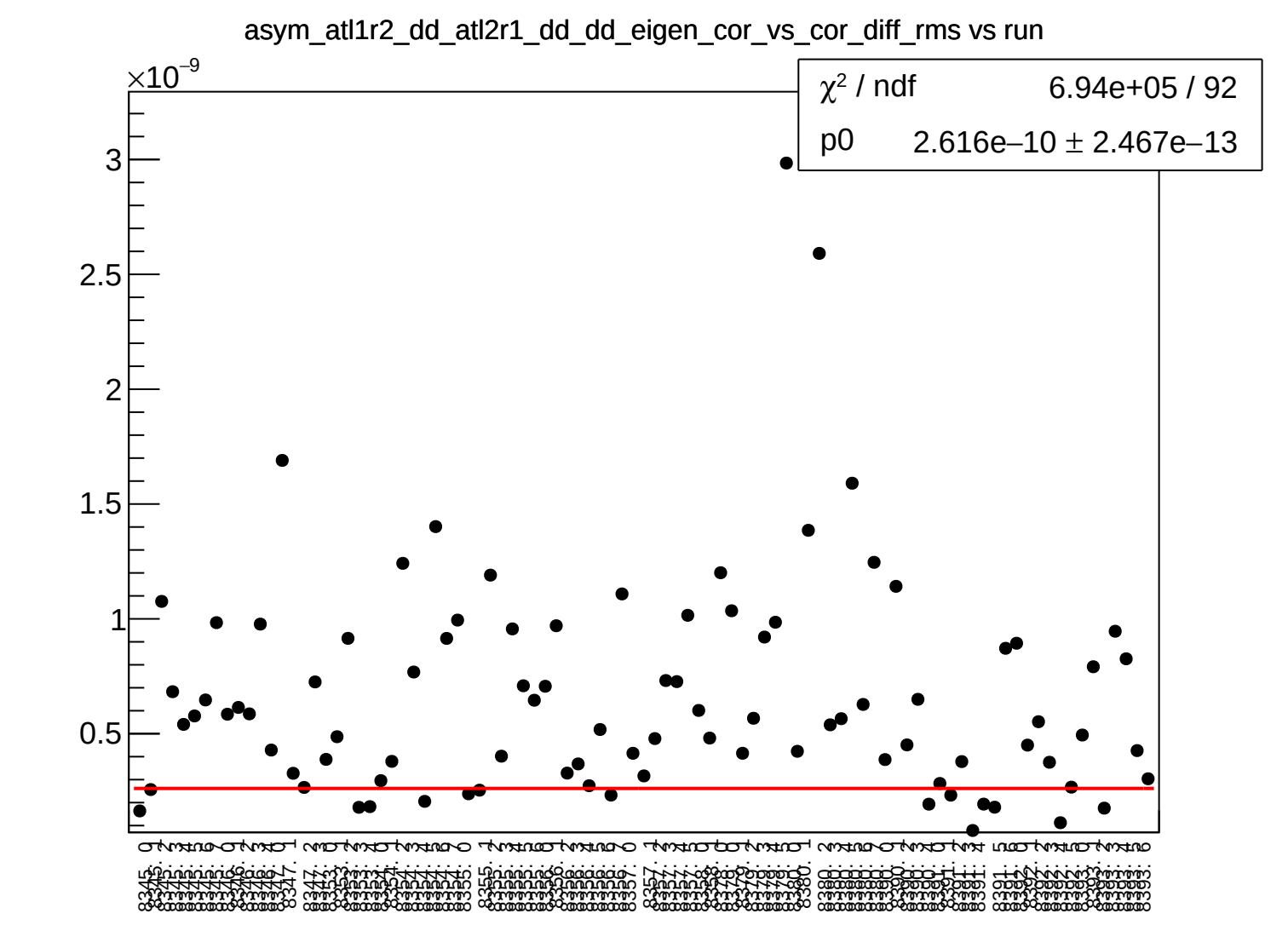

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.285e+04 / 92
p0 114.8 ± 0.08588
160
150
140
130
120
110
100
90
80

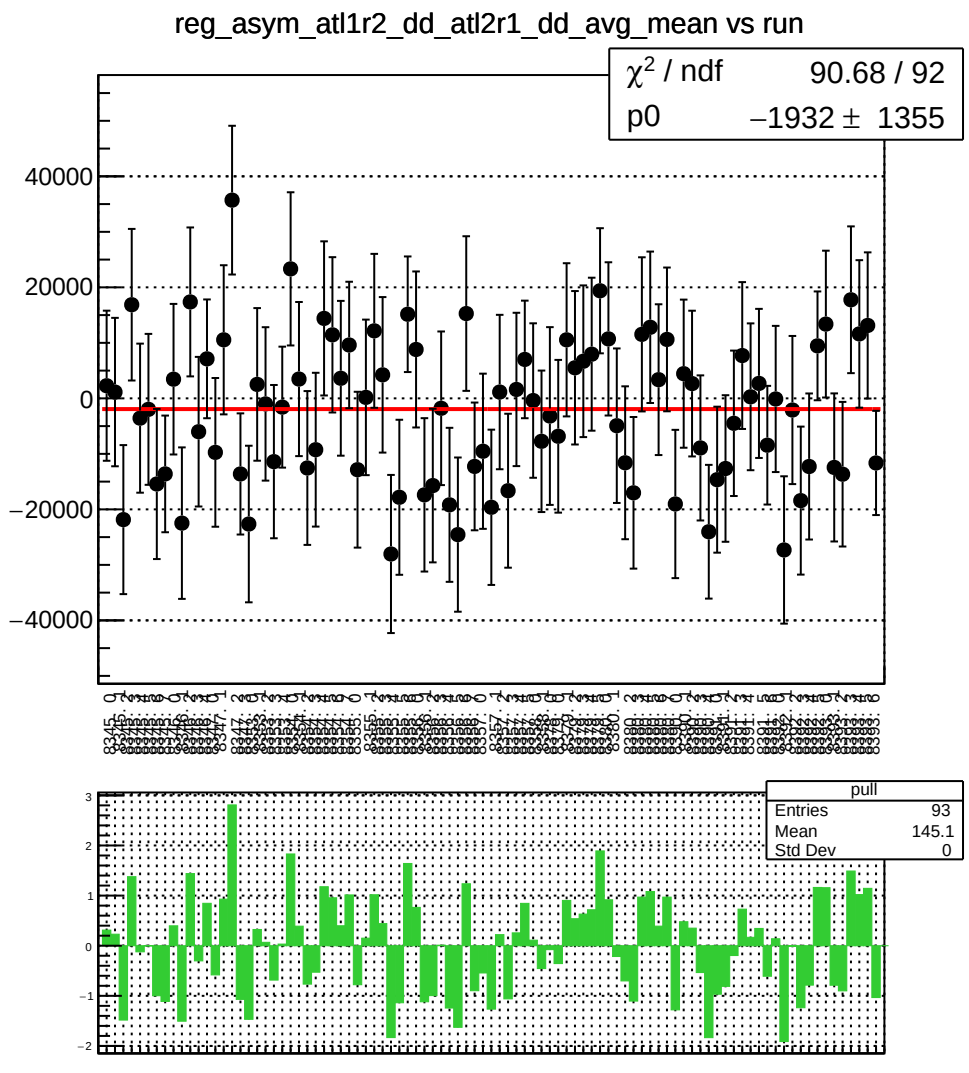

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.71 / 92
p0 −0.07372 ± 0.1215
pull
Entries 93
Mean 49.39
Std Dev 0

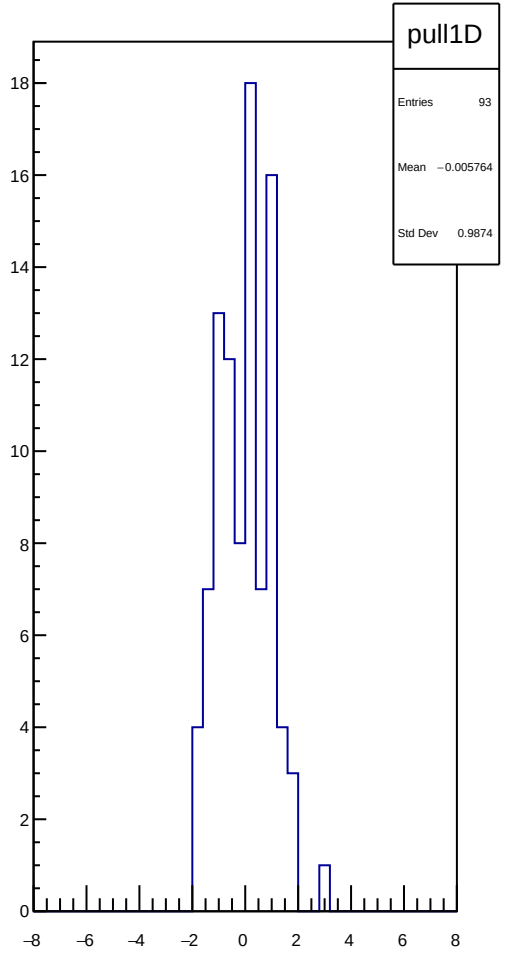

pull1D
Entries 93
Mean 0.001739
Std Dev 0.9984

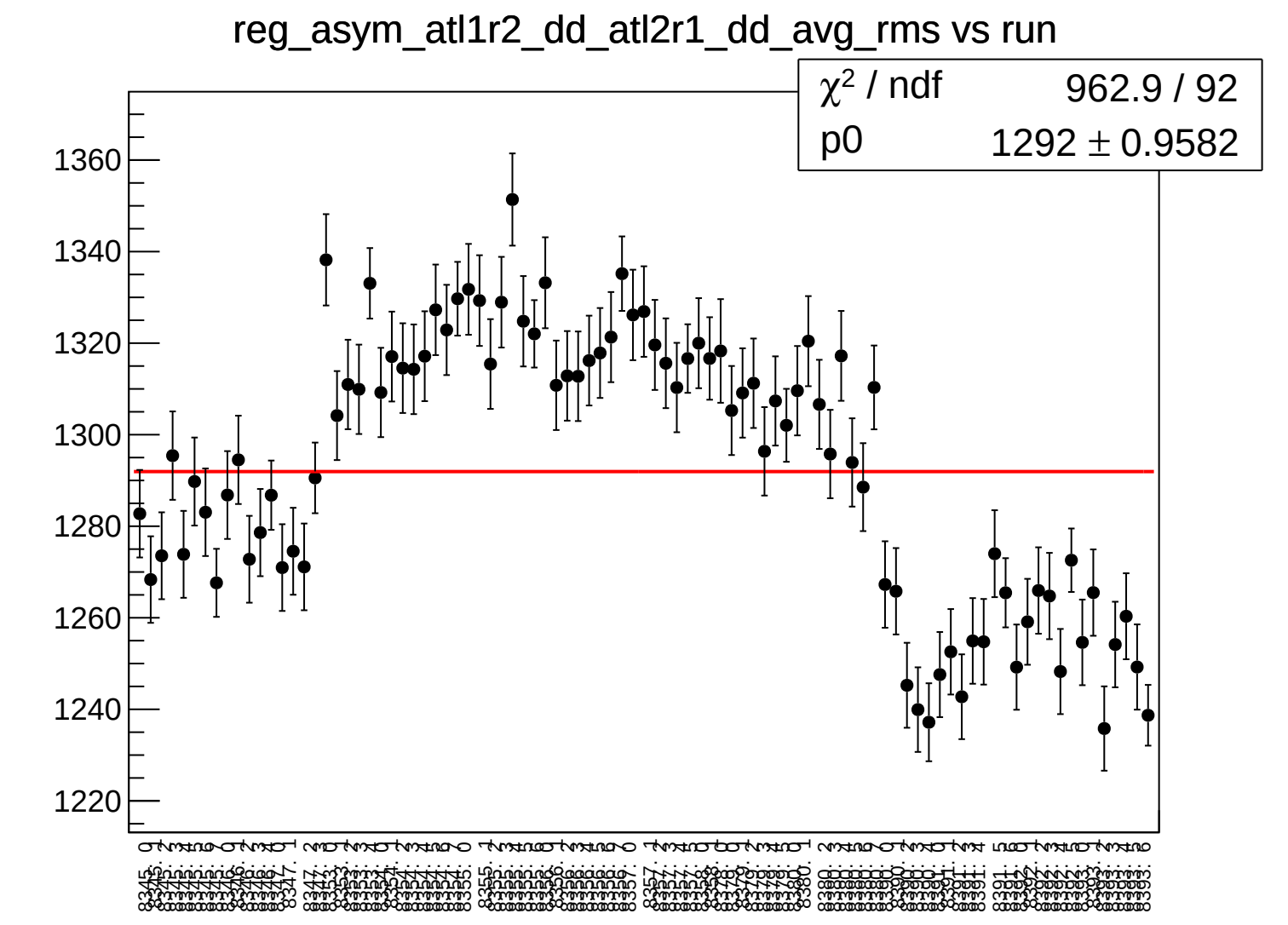

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.285e+04 / 92
p0 114.8 ± 0.08588
160
150
140
130
120
110
100
90
80

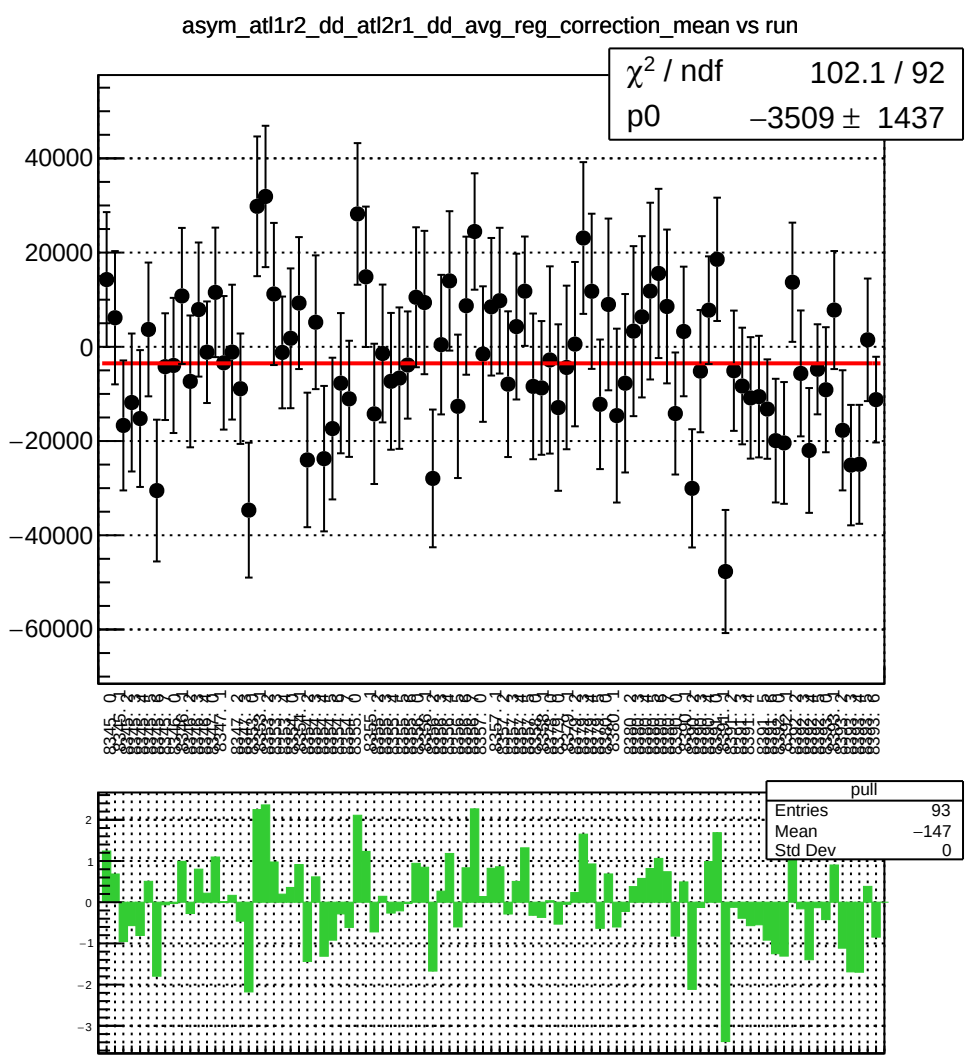

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.2 / 92
p0 2.385e−13 ± 3.489e−13
pull
Entries 93
Mean 24.77
Std Dev 29.4
pull1D
Entries 93
Mean −0.1317
Std Dev 1.019

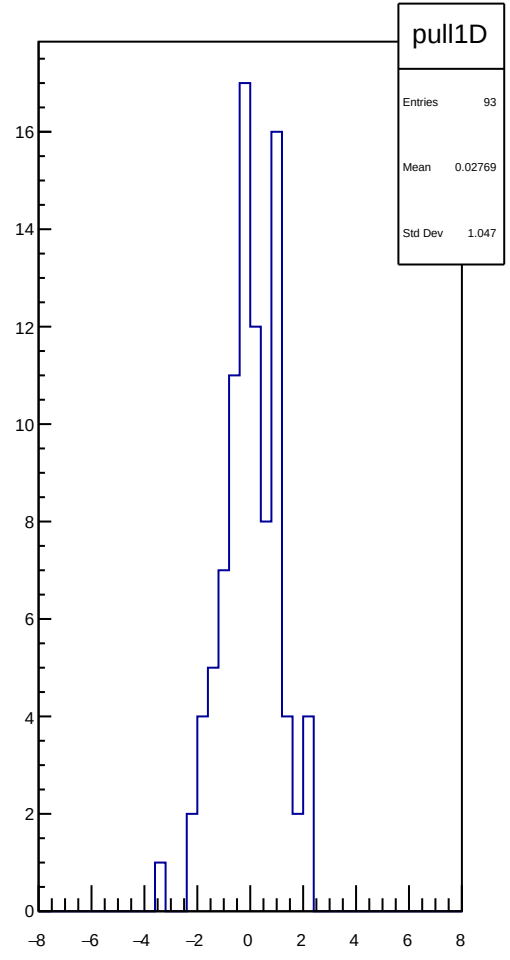

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.94e+05 / 92
p0 2.616e−10 ± 2.467e−13
3
2.5
2
1.5
1
0.5

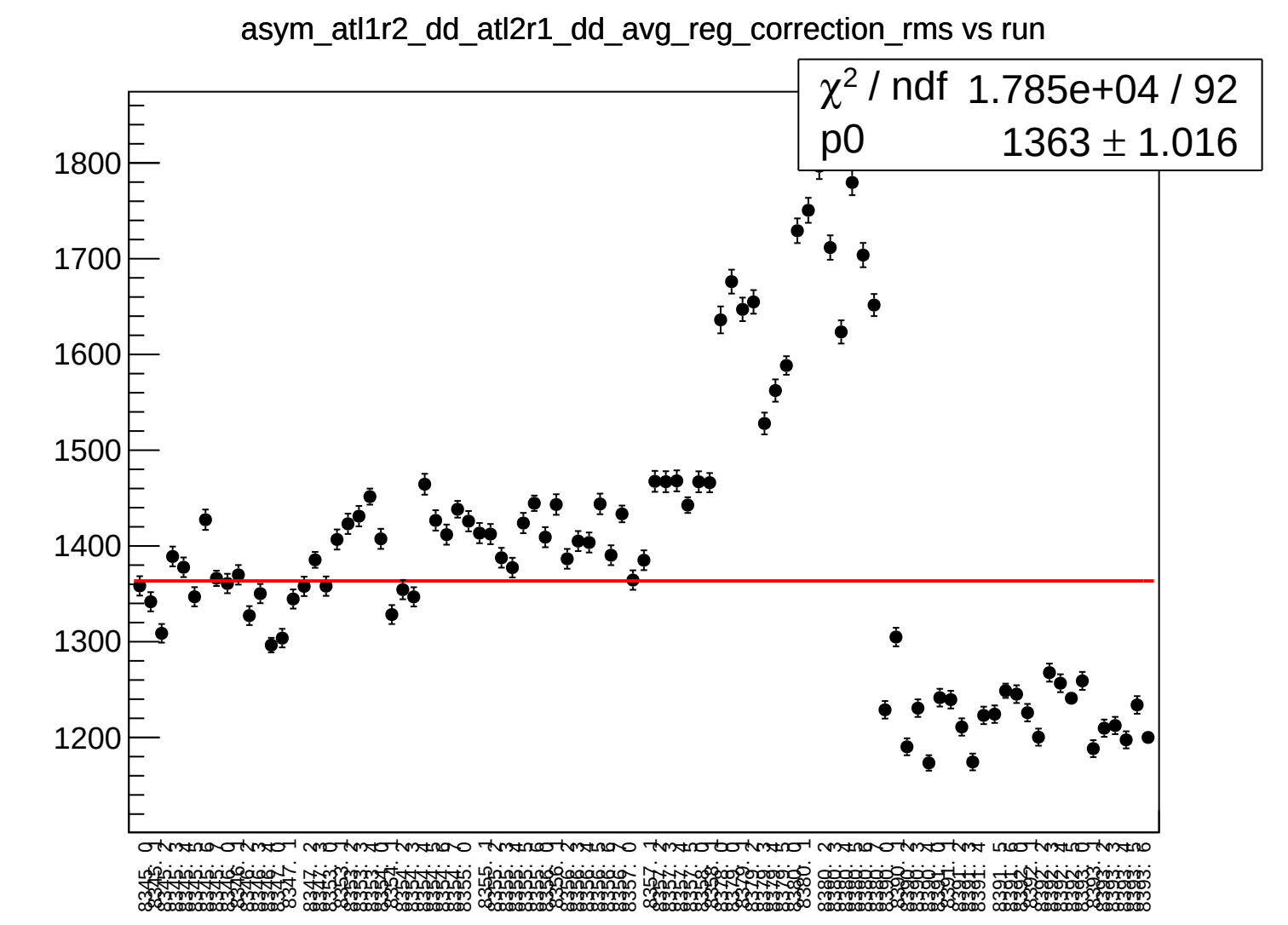

reg_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 90.68 / 92
p0 −1932 ± 1355
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 145.1
Std Dev 0
3
2
1
0
−1
−2

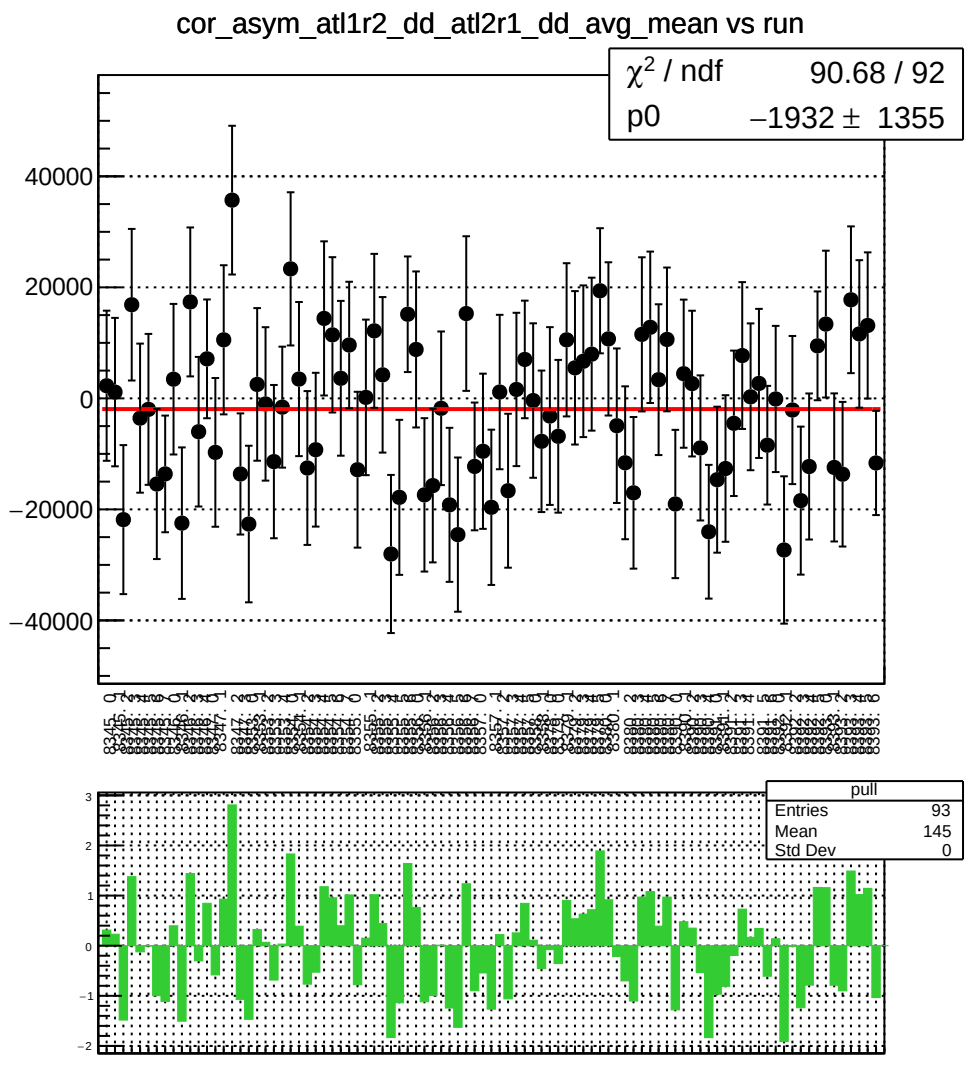

pull1D
Entries 93
Mean −0.005764
Std Dev 0.9874
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

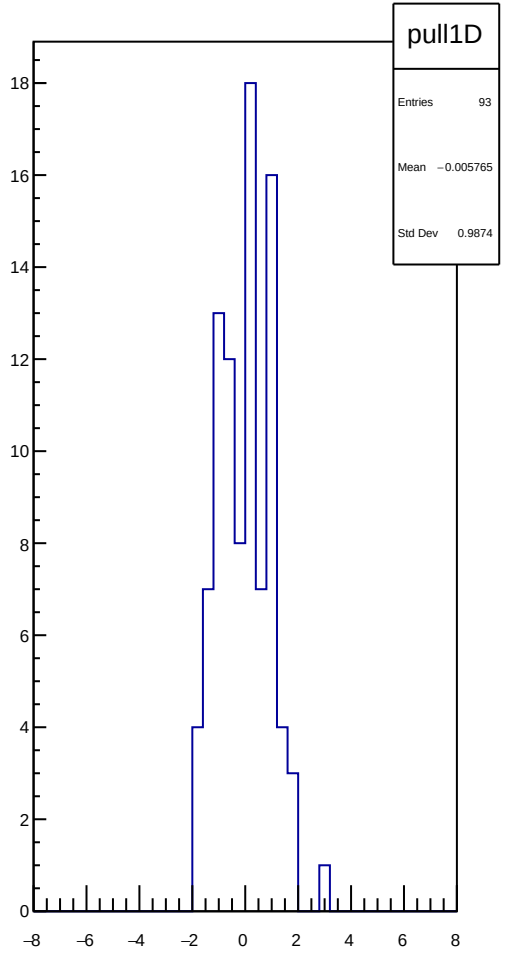

reg_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ^2 / ndf 962.9 / 92
p0 1292 ± 0.9582
1360
1340
1320
1300
1280
1260
1240
1220

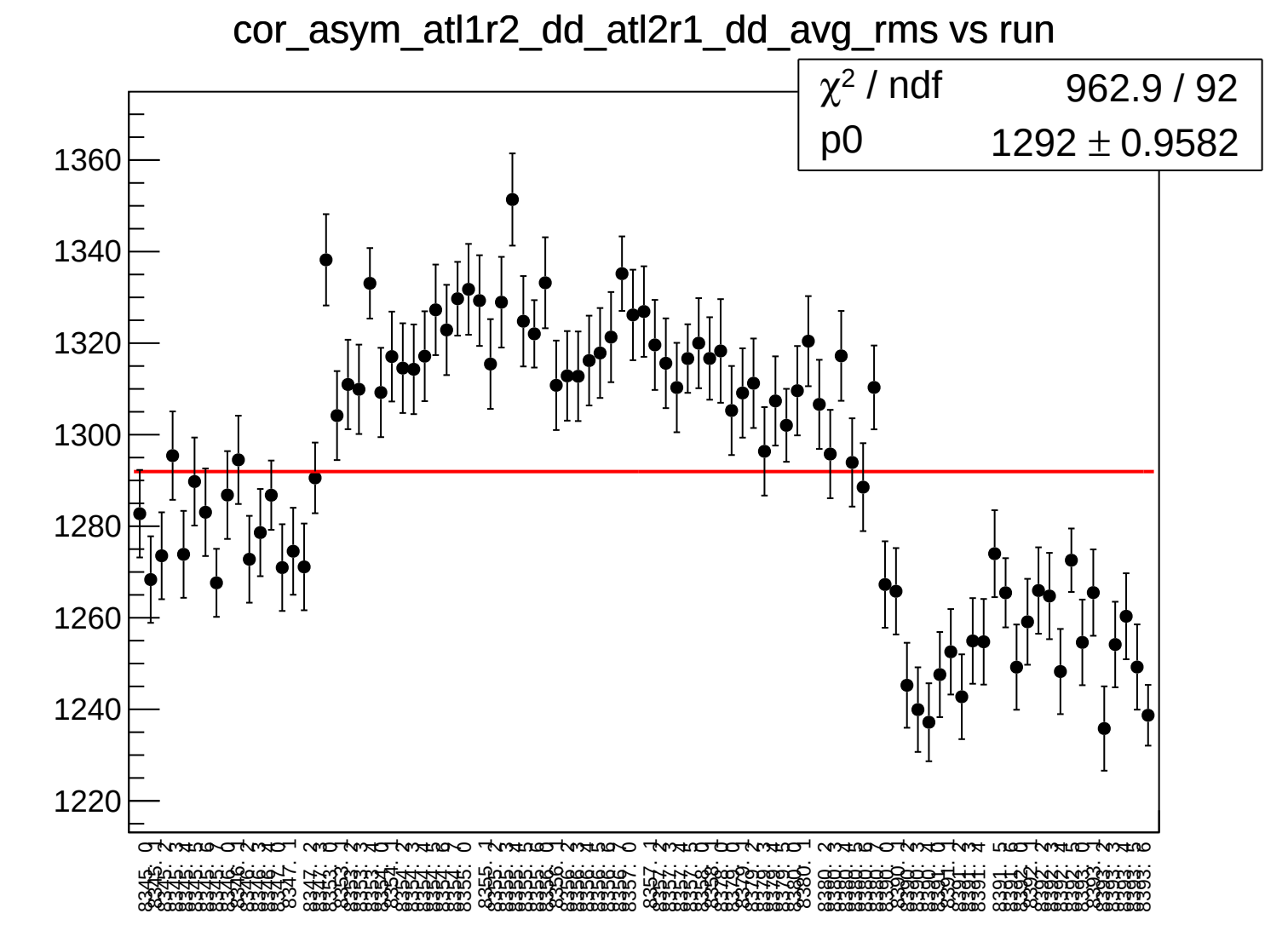

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_mean vs run
χ² / ndf 102.1 / 92
p0 −3509 ± 1437
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −147
Std Dev 0
2
1
0
−1
−2
−3

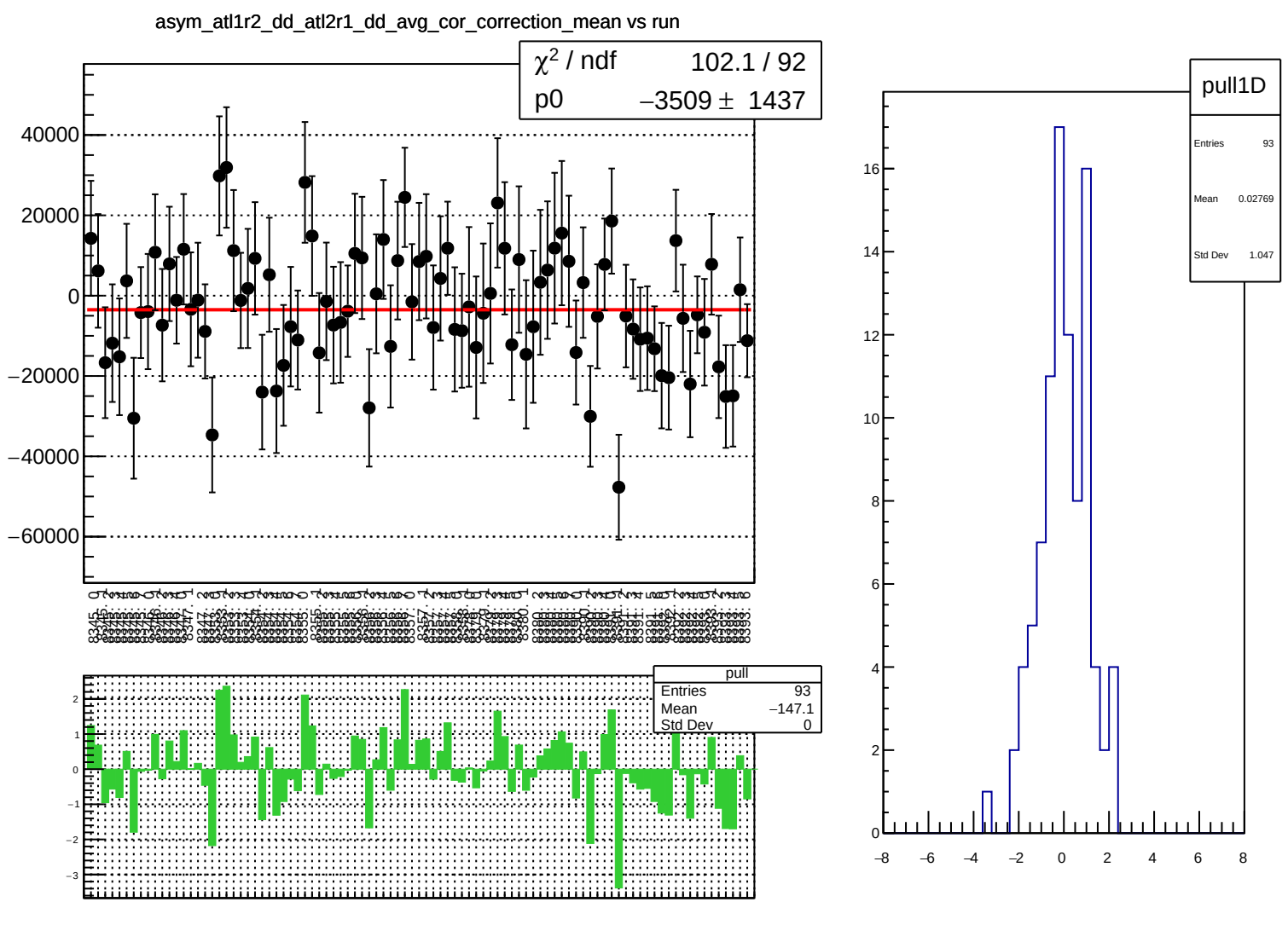

pull1D
Entries 93
Mean 0.02769
Std Dev 1.047
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

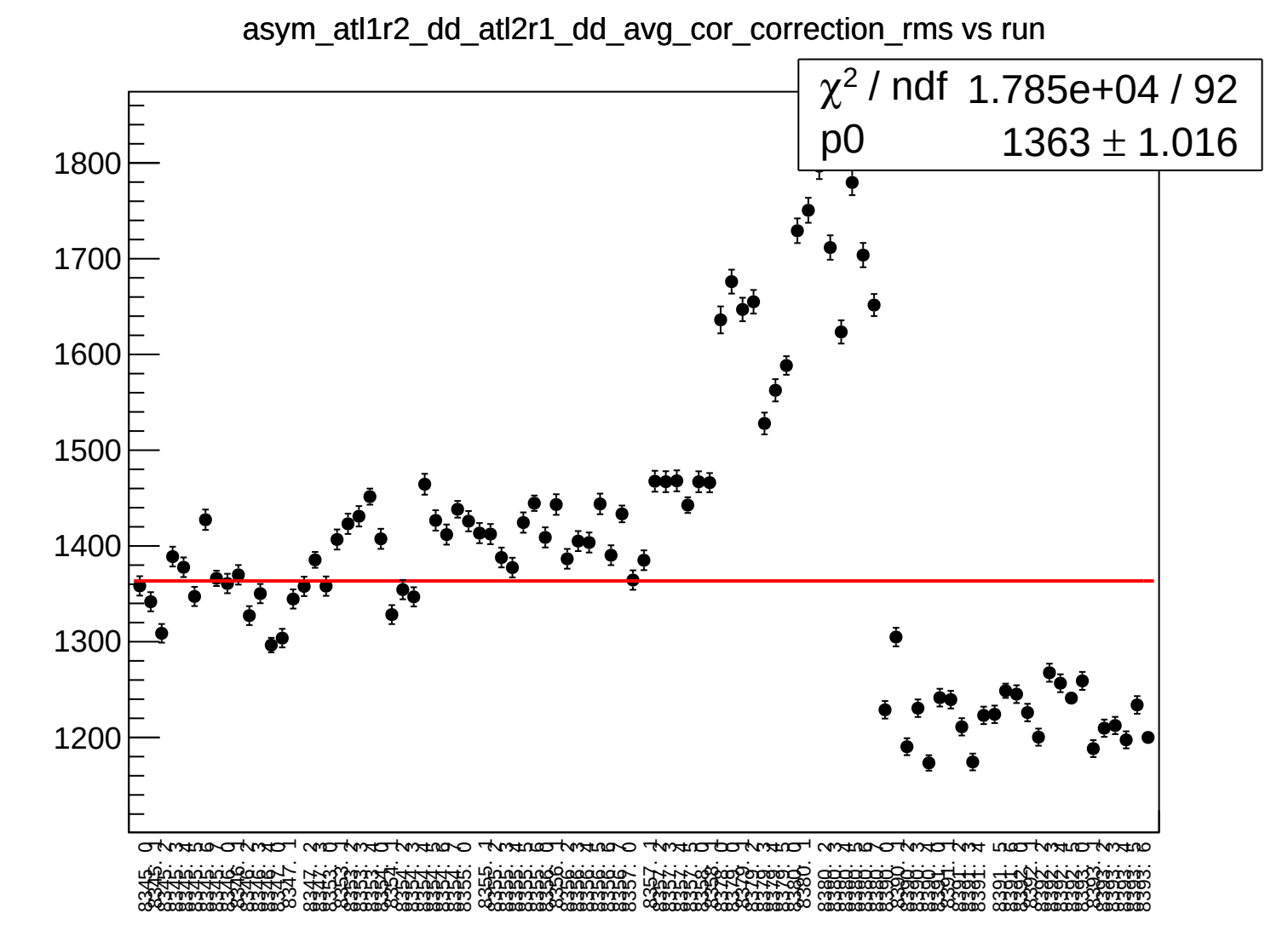

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_rms vs run
χ² / ndf 1.785e+04 / 92
p0 1363 ± 1.016
1800
1700
1600
1500
1400
1300
1200

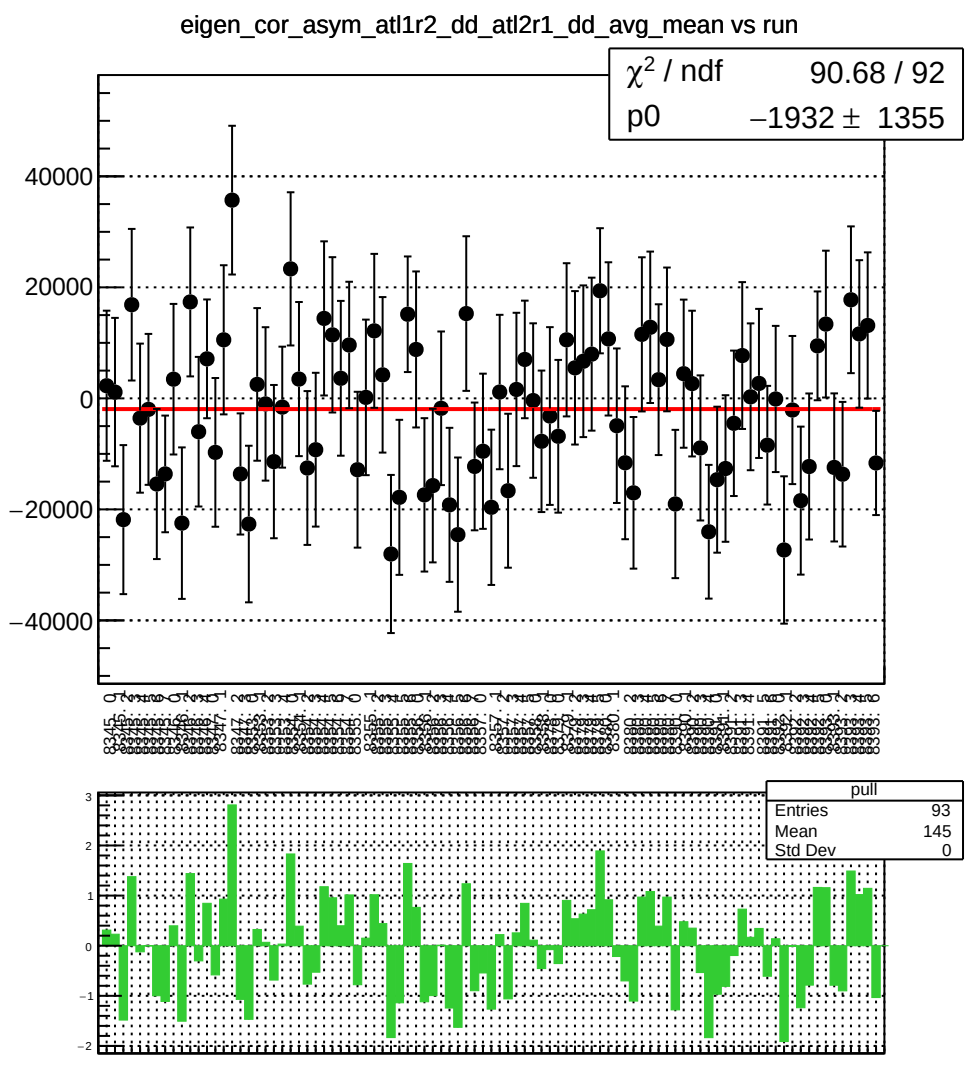

cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 90.68 / 92
p0 −1932 ± 1355
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 145
Std Dev 0
3
2
1
0
−1
−2

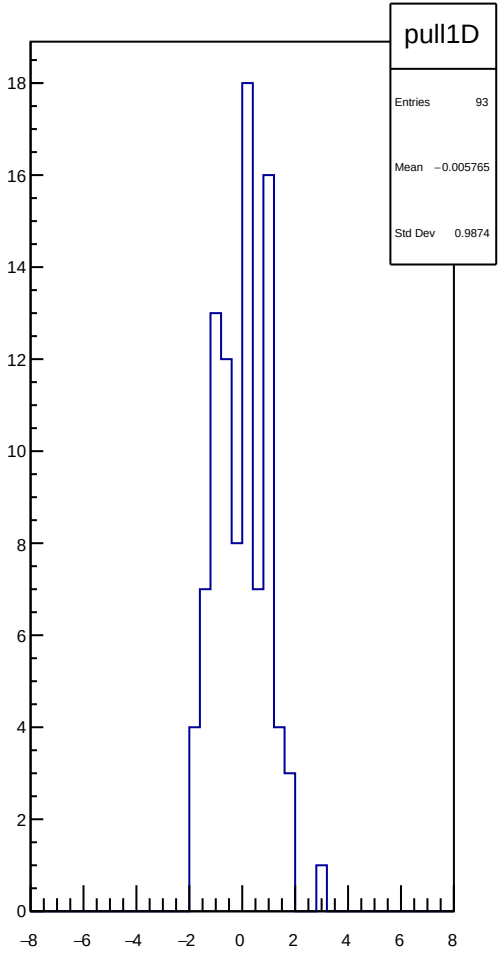

pull1D
Entries 93
Mean −0.005765
Std Dev 0.9874
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

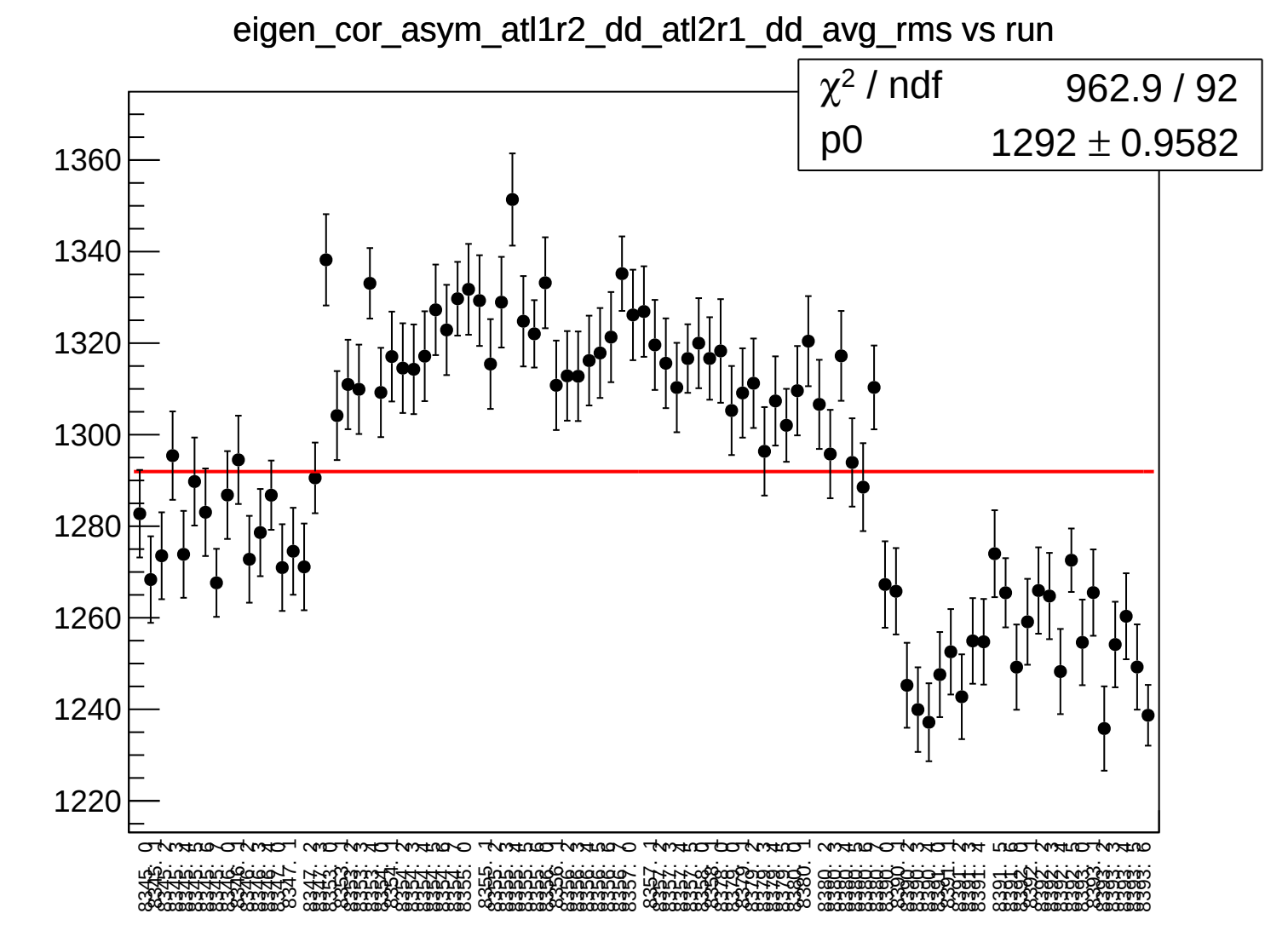

cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 962.9 / 92
p0 1292 ± 0.9582
1360
1340
1320
1300
1280
1260
1240
1220

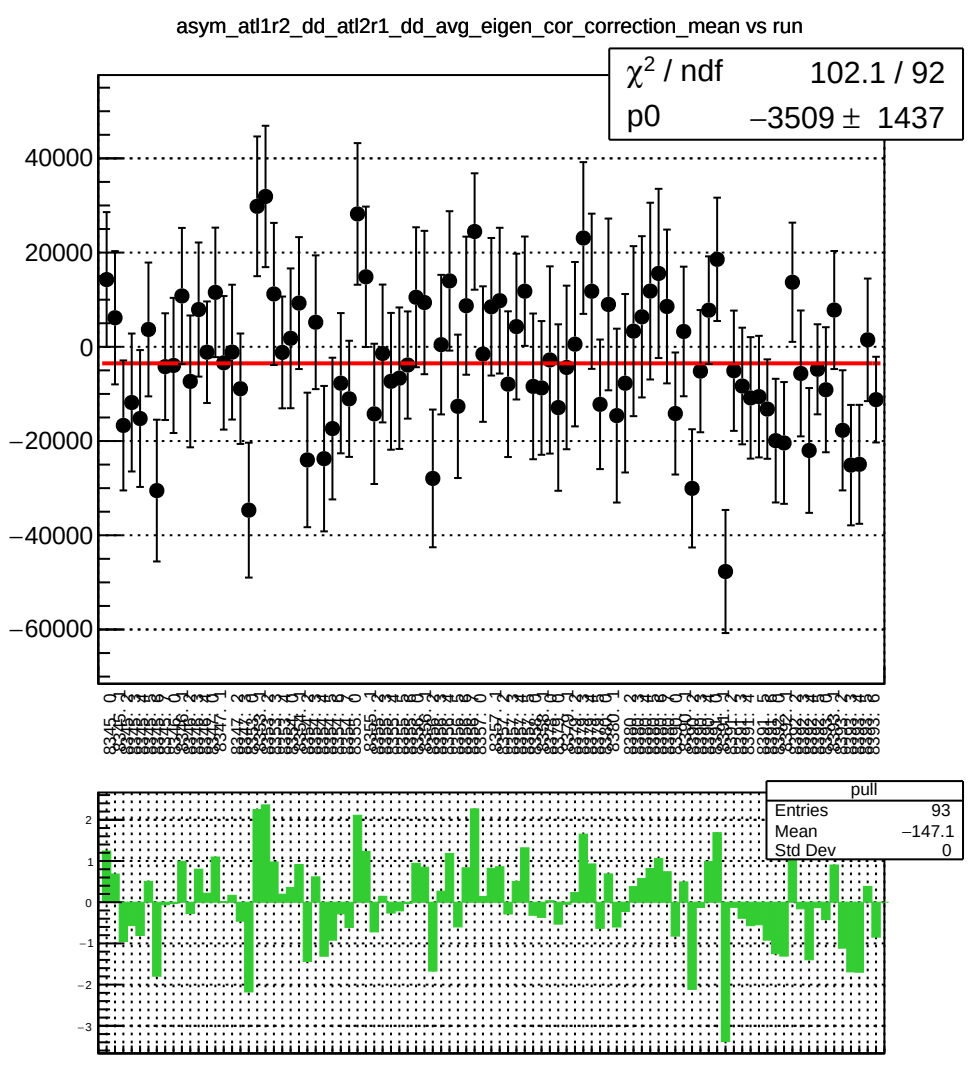

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_mean vs run
χ² / ndf 102.1 / 92
p0 −3509 ± 1437
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −147.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.02769
Std Dev 1.047
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

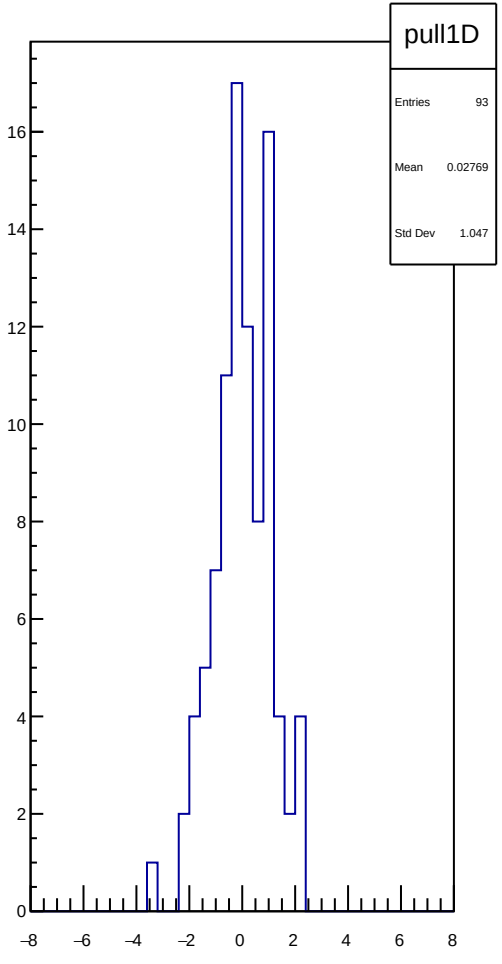

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_rms vs run
χ² / ndf 1.785e+04 / 92
p0 1363 ± 1.016
1800
1700
1600
1500
1400
1300
1200

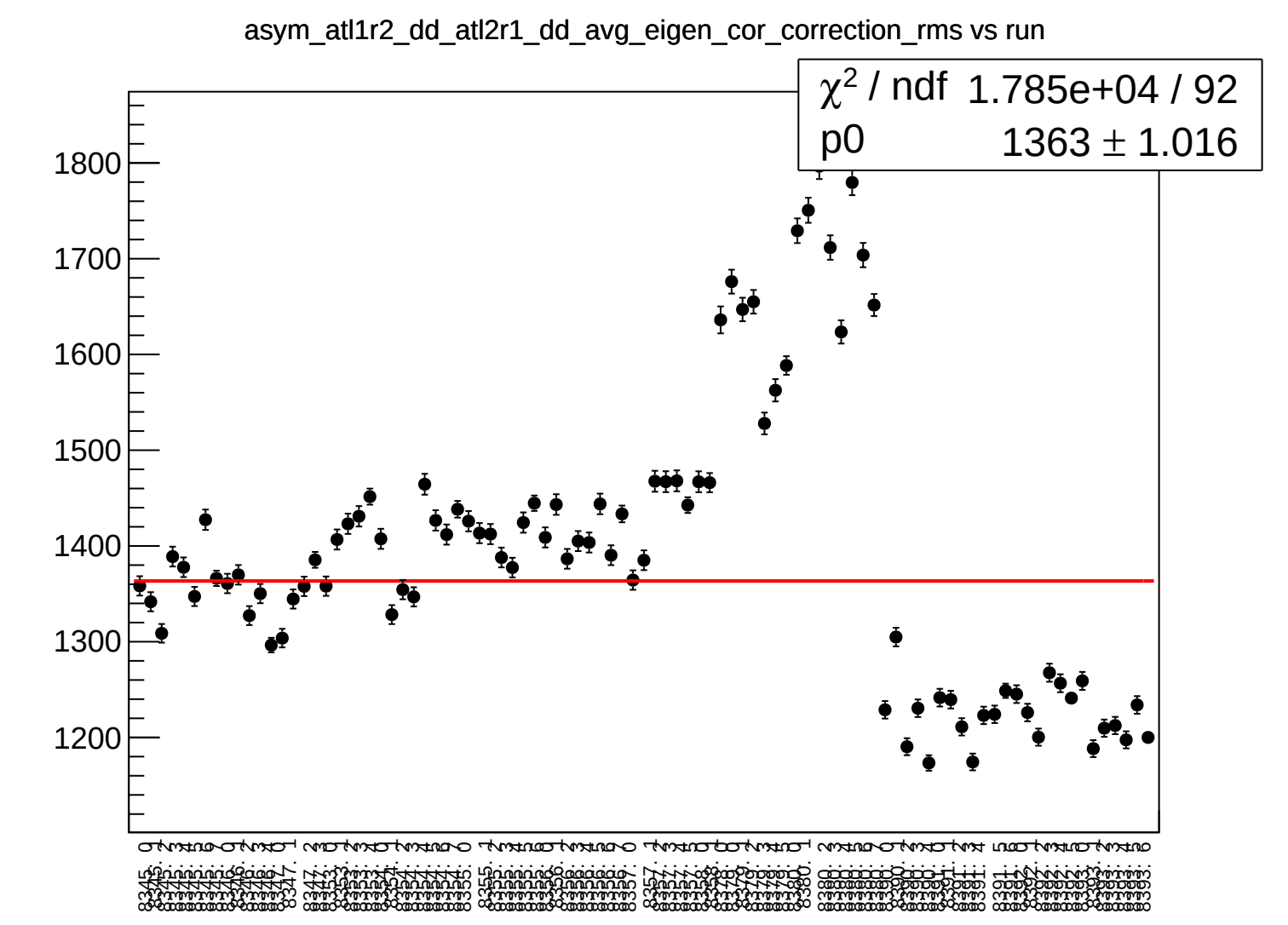

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 90.68 / 92
p0 −1932 ± 1355
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 145
Std Dev 0
3
2
1
0
−1
−2

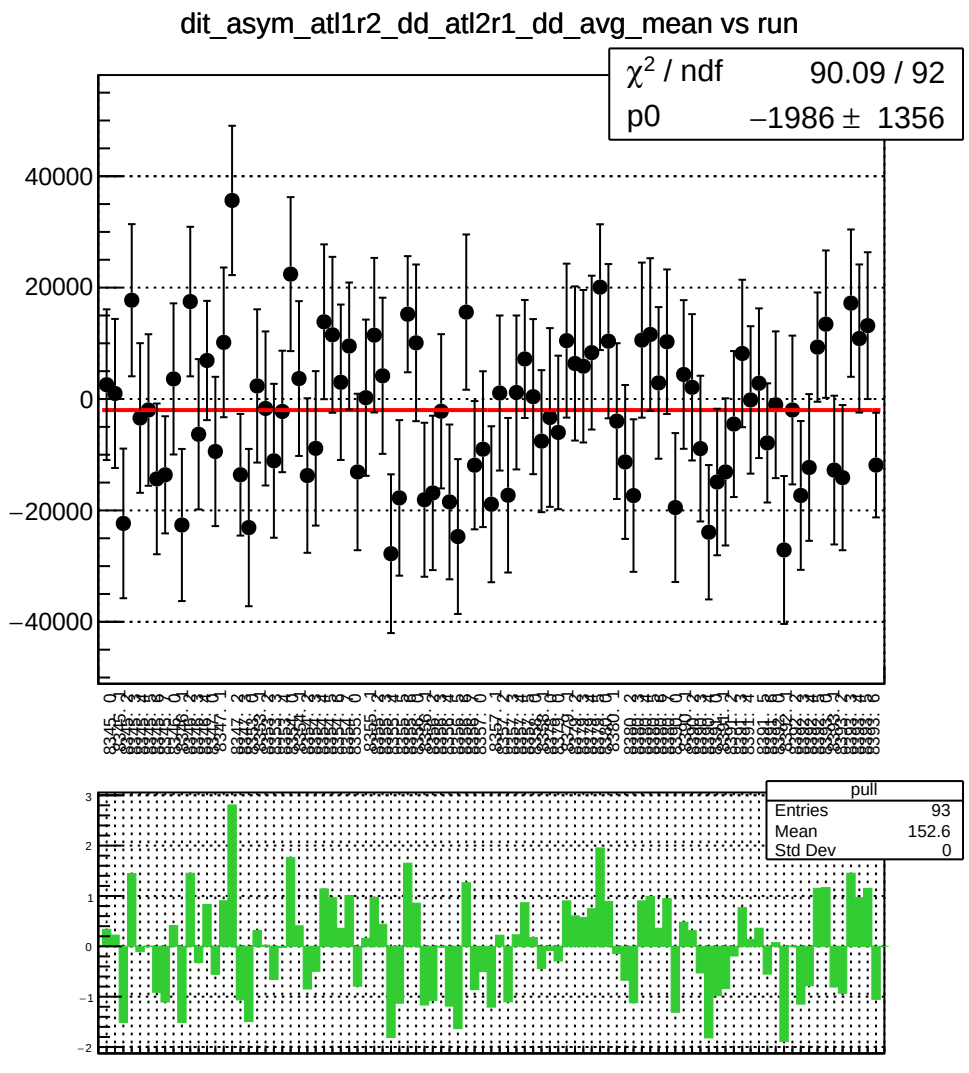

pull1D
Entries 93
Mean −0.005765
Std Dev 0.9874
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

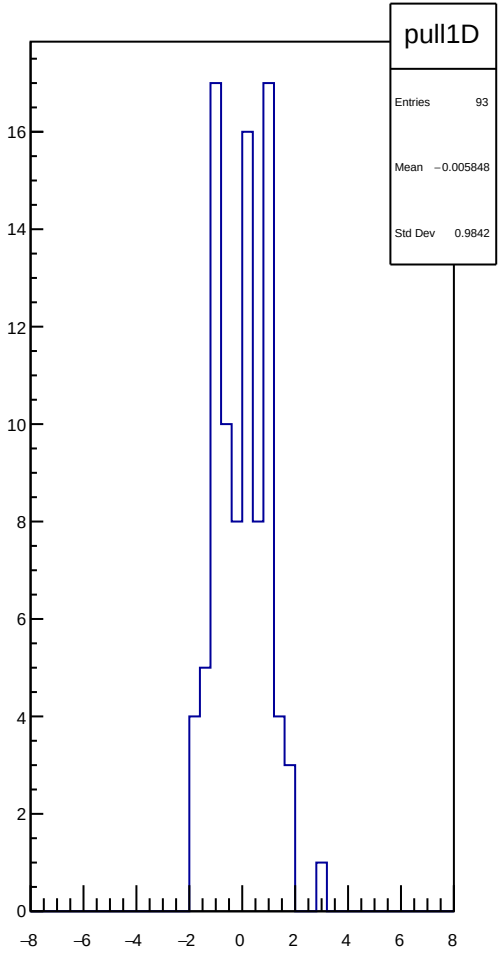

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 962.9 / 92
p0 1292 ± 0.9582
1360
1340
1320
1300
1280
1260
1240
1220

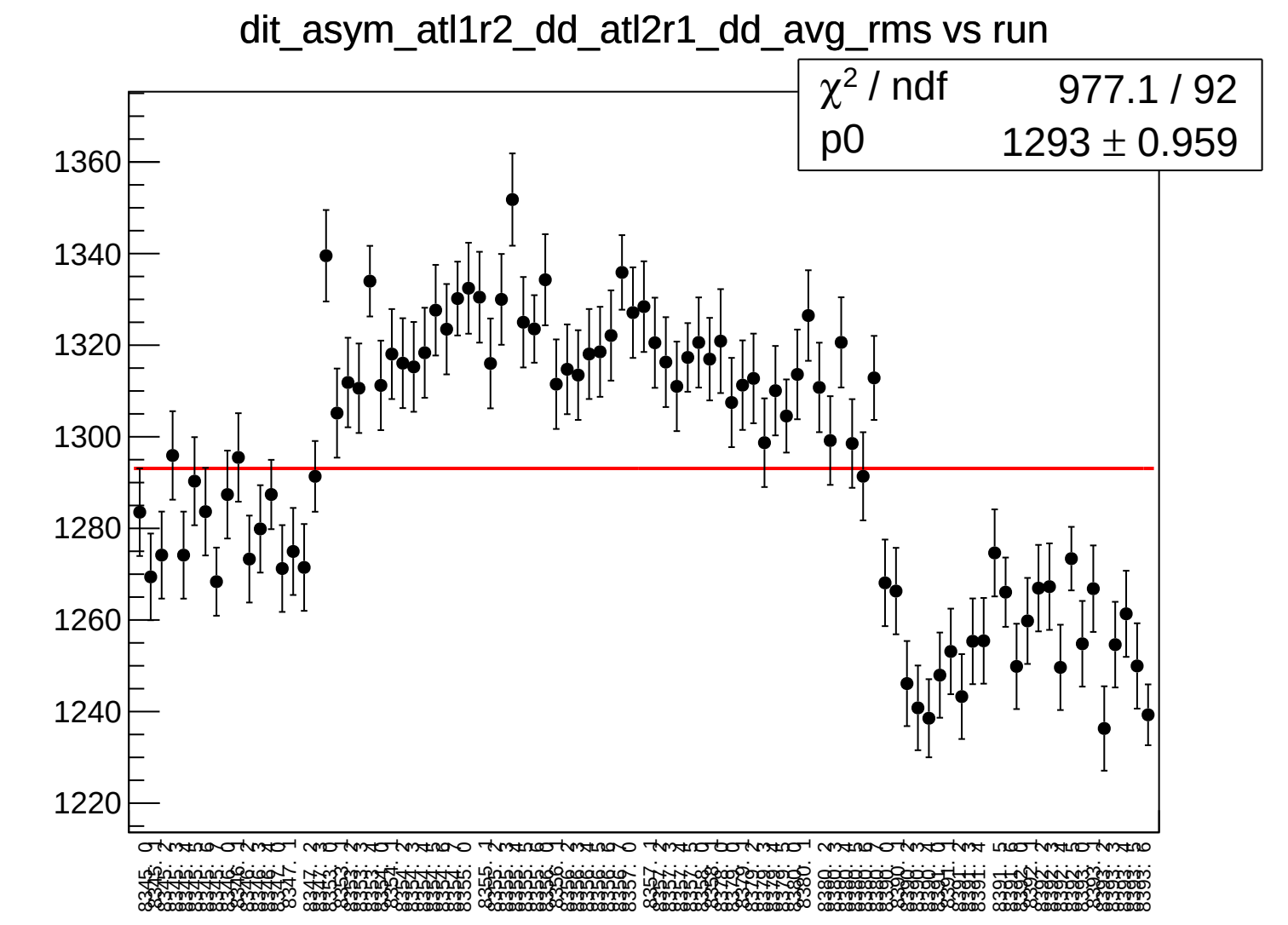

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 102.1 / 92
p0 −3509 ± 1437
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −147.1
Std Dev 0
2
1
0
−1
−2
−3

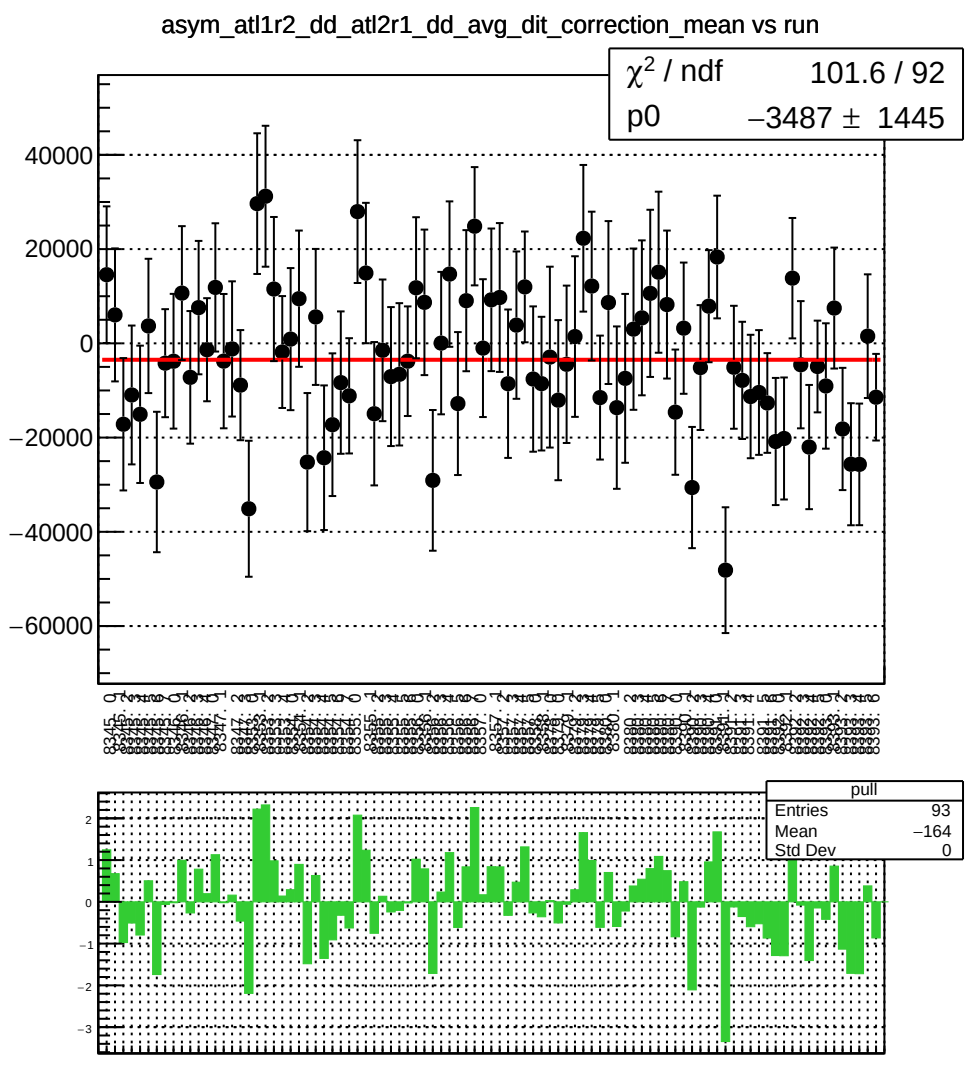

pull1D
Entries 93
Mean 0.02769
Std Dev 1.047
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

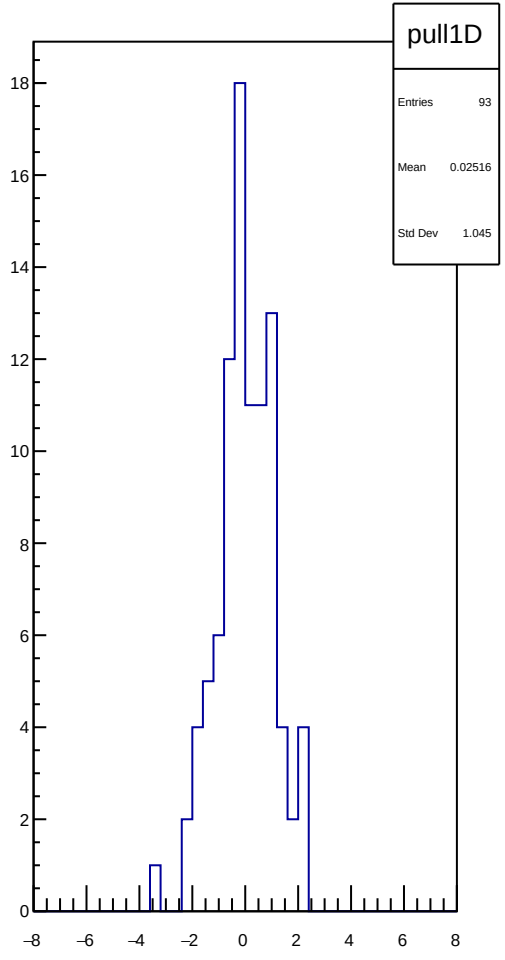

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.785e+04 / 92
p0 1363 ± 1.016
1800
1700
1600
1500
1400
1300
1200

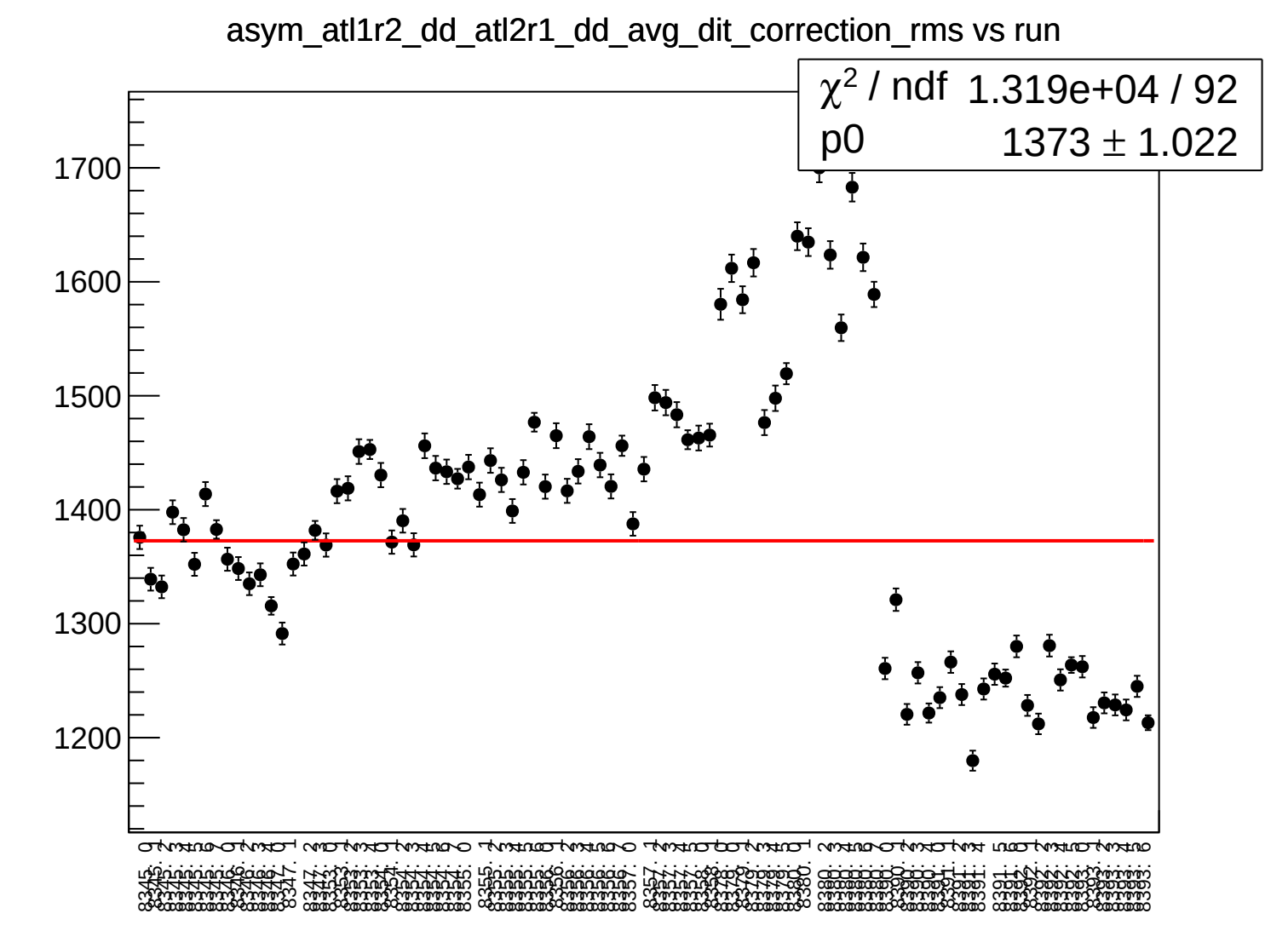

dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 90.09 / 92
p0 −1986 ± 1356
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 152.6
Std Dev 0
3
2
1
0
−1
−2

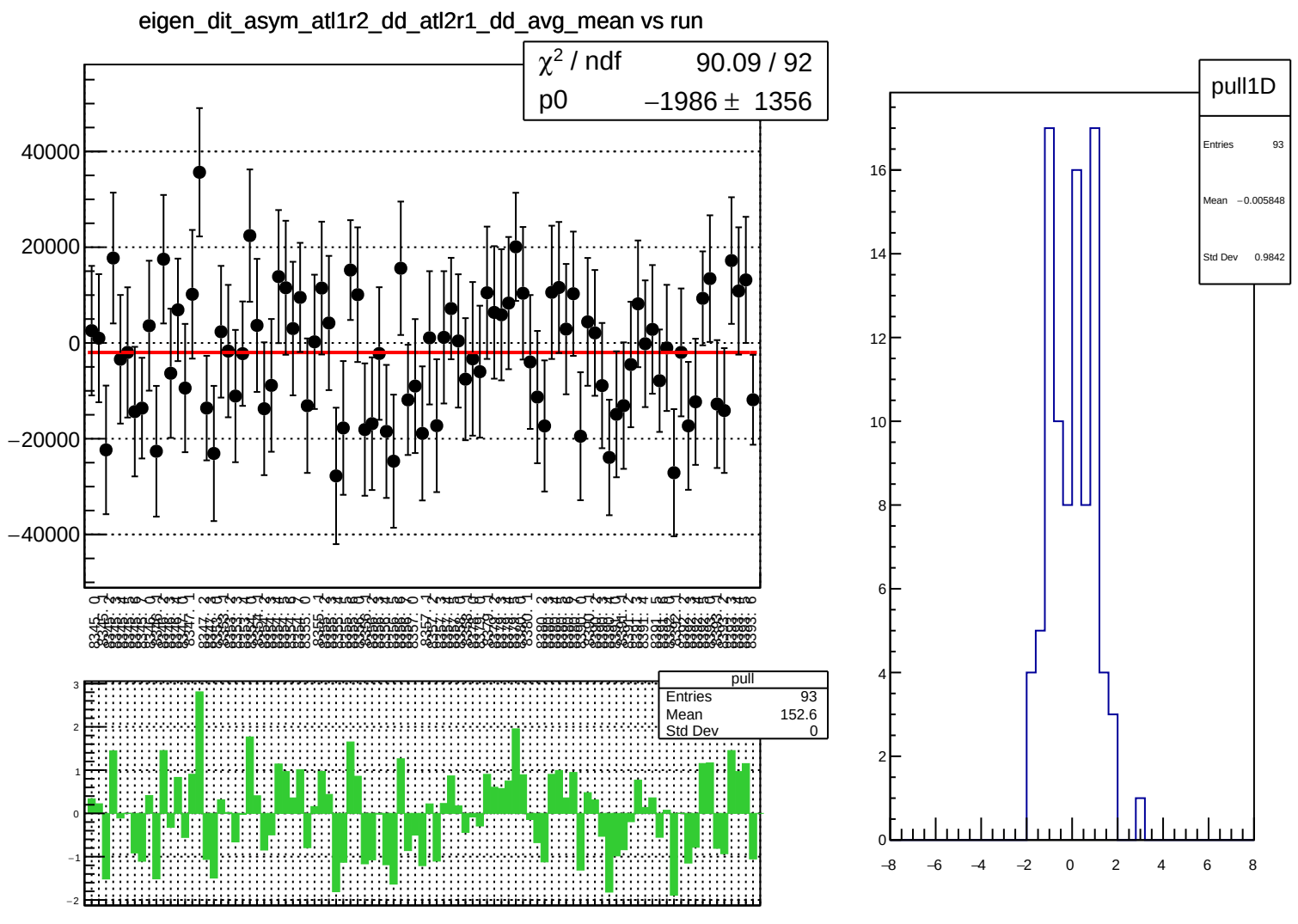

pull1D
Entries 93
Mean −0.005848
Std Dev 0.9842
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

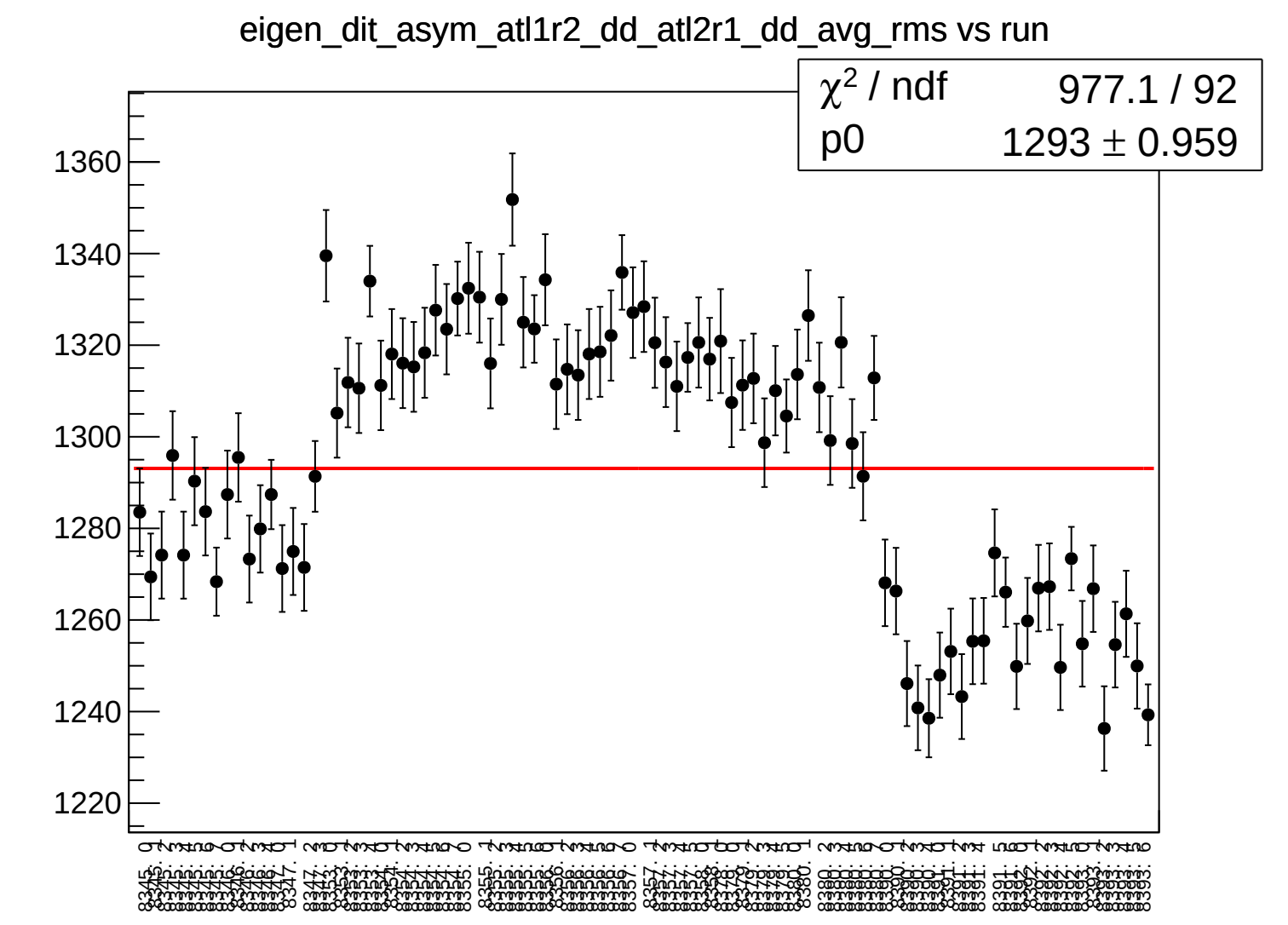

dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 977.1 / 92
p0 1293 ± 0.959
1360
1340
1320
1300
1280
1260
1240
1220

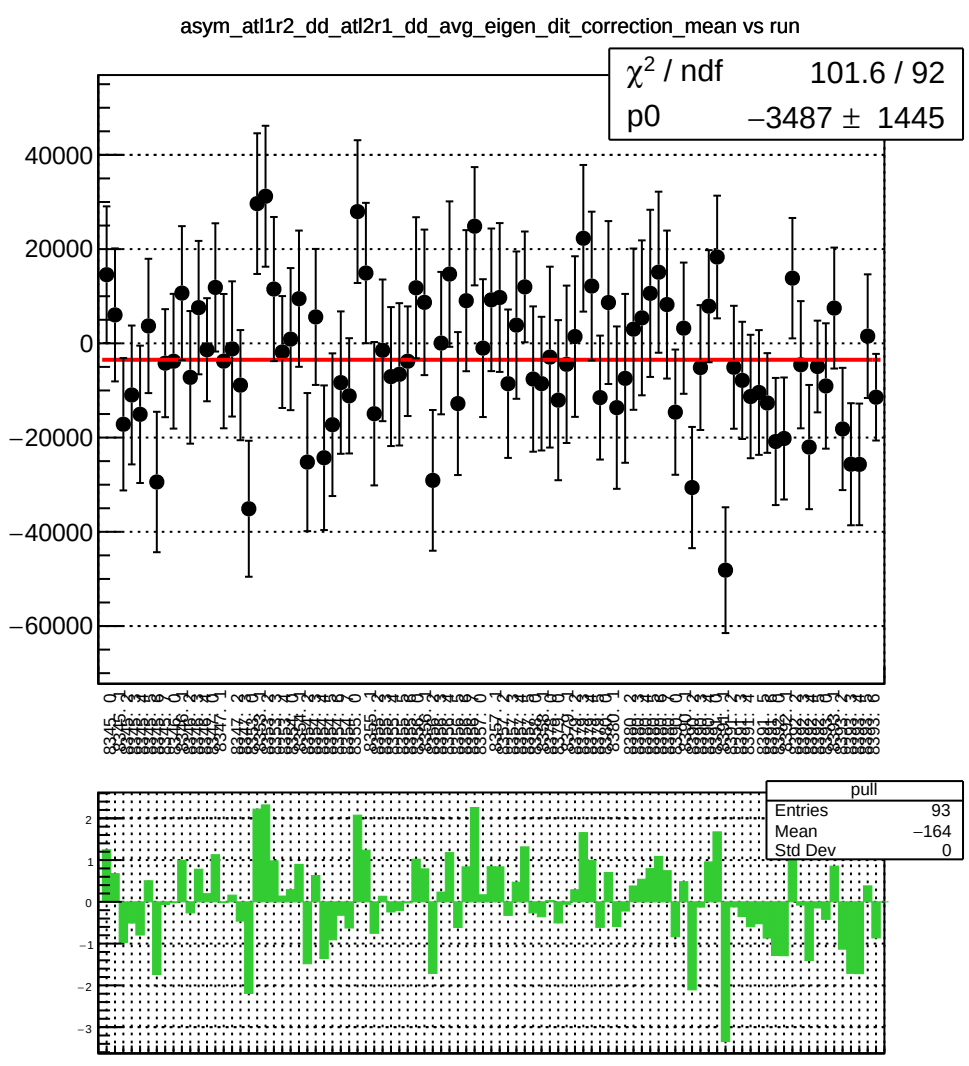

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_mean vs run
χ² / ndf 101.6 / 92
p0 −3487 ± 1445
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −164
Std Dev 0
2
1
0
−1
−2
−3

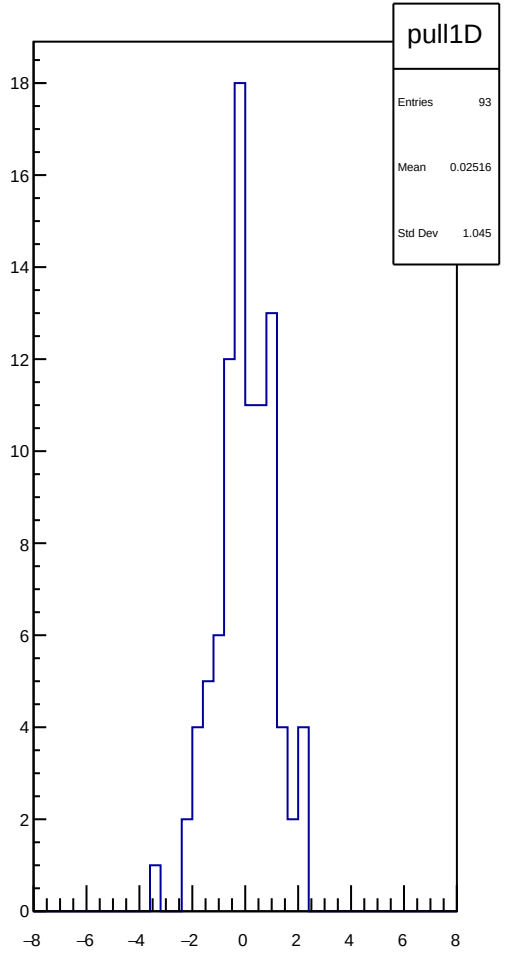

pull1D
Entries 93
Mean 0.02516
Std Dev 1.045
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

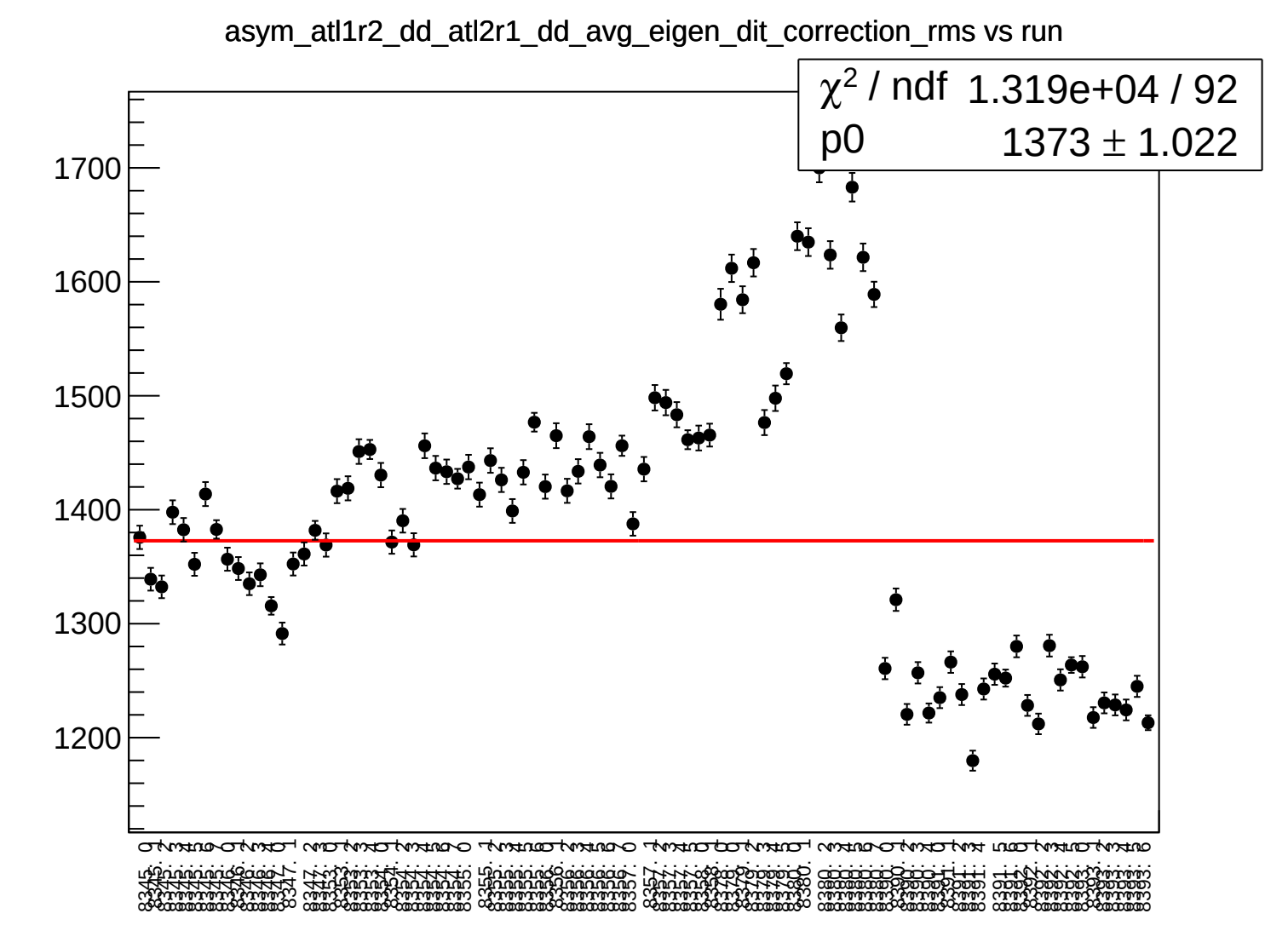

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_rms vs run
χ² / ndf 1.319e+04 / 92
p0 1373 ± 1.022
1700
1600
1500
1400
1300
1200

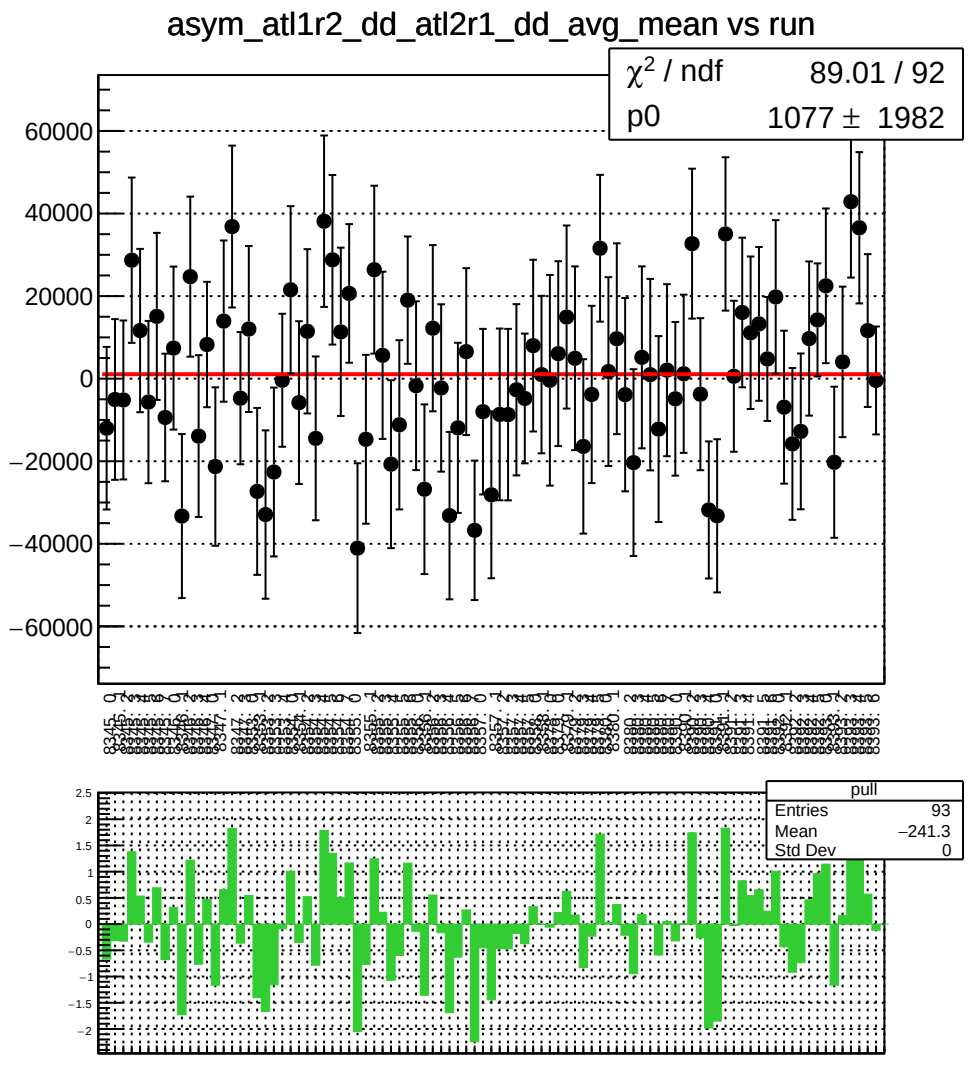

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 90.09 / 92
p0 −1986 ± 1356
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 152.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.005848
Std Dev 0.9842
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

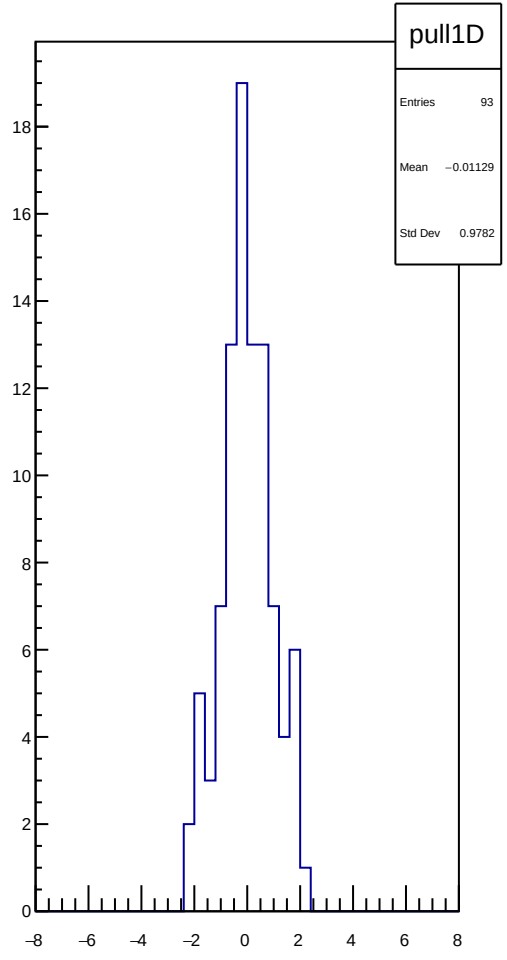

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ^2 / ndf 977.1 / 92
p0 1293 ± 0.959
1360
1340
1320
1300
1280
1260
1240
1220

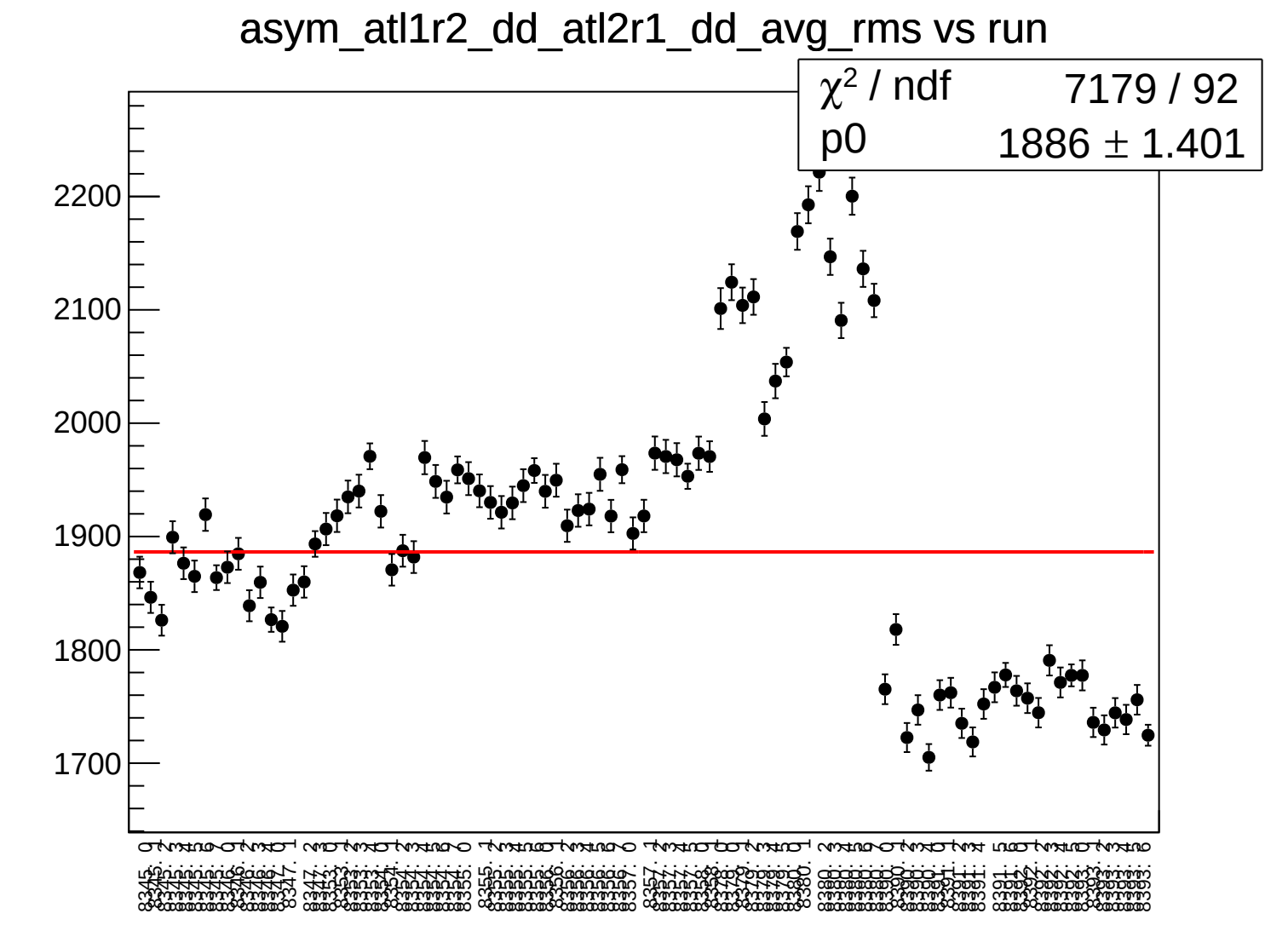

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 101.6 / 92
p0 −3487 ± 1445
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −164
Std Dev 0
2
1
0
−1
−2
−3

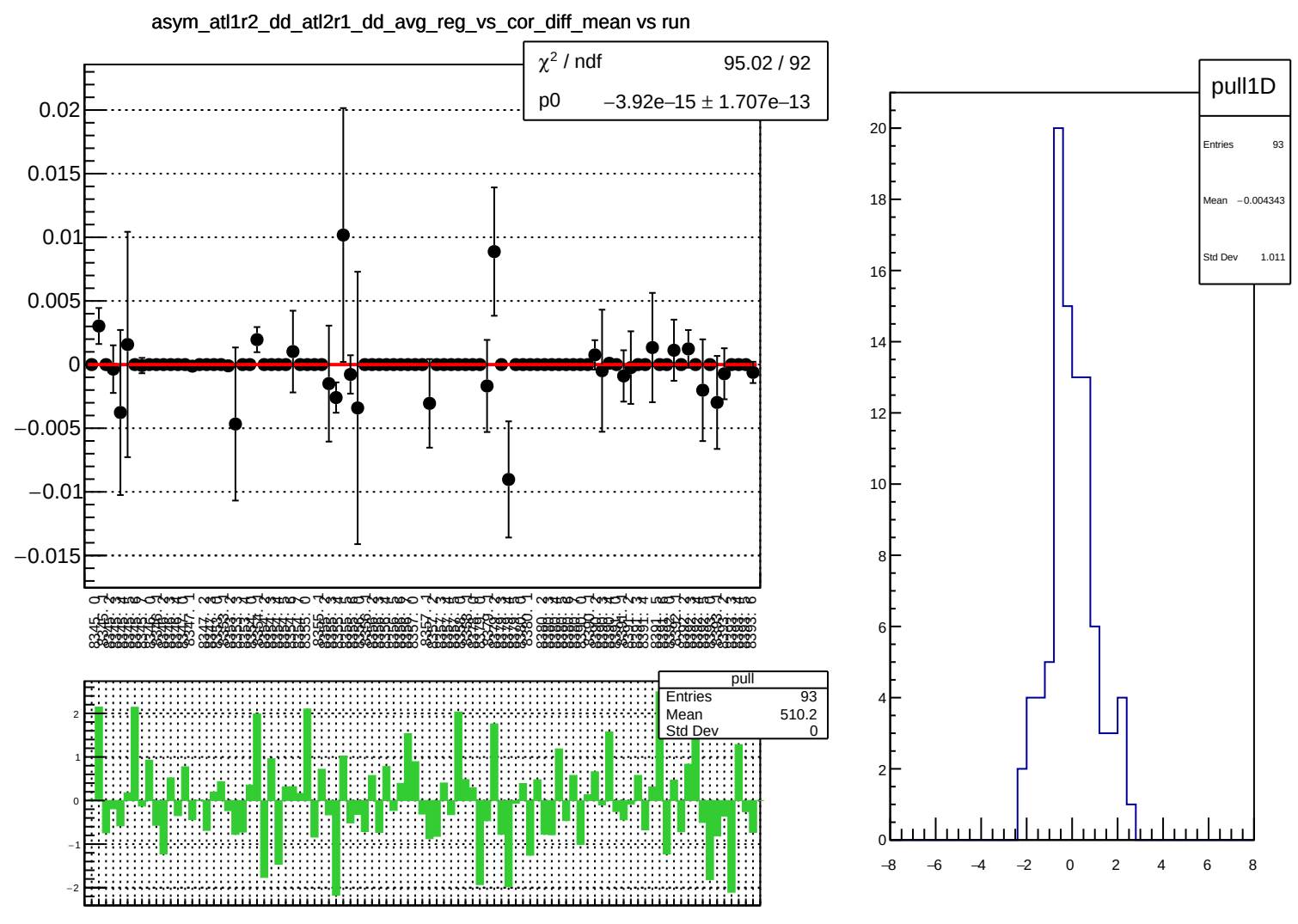

pull1D
Entries 93
Mean 0.02516
Std Dev 1.045
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

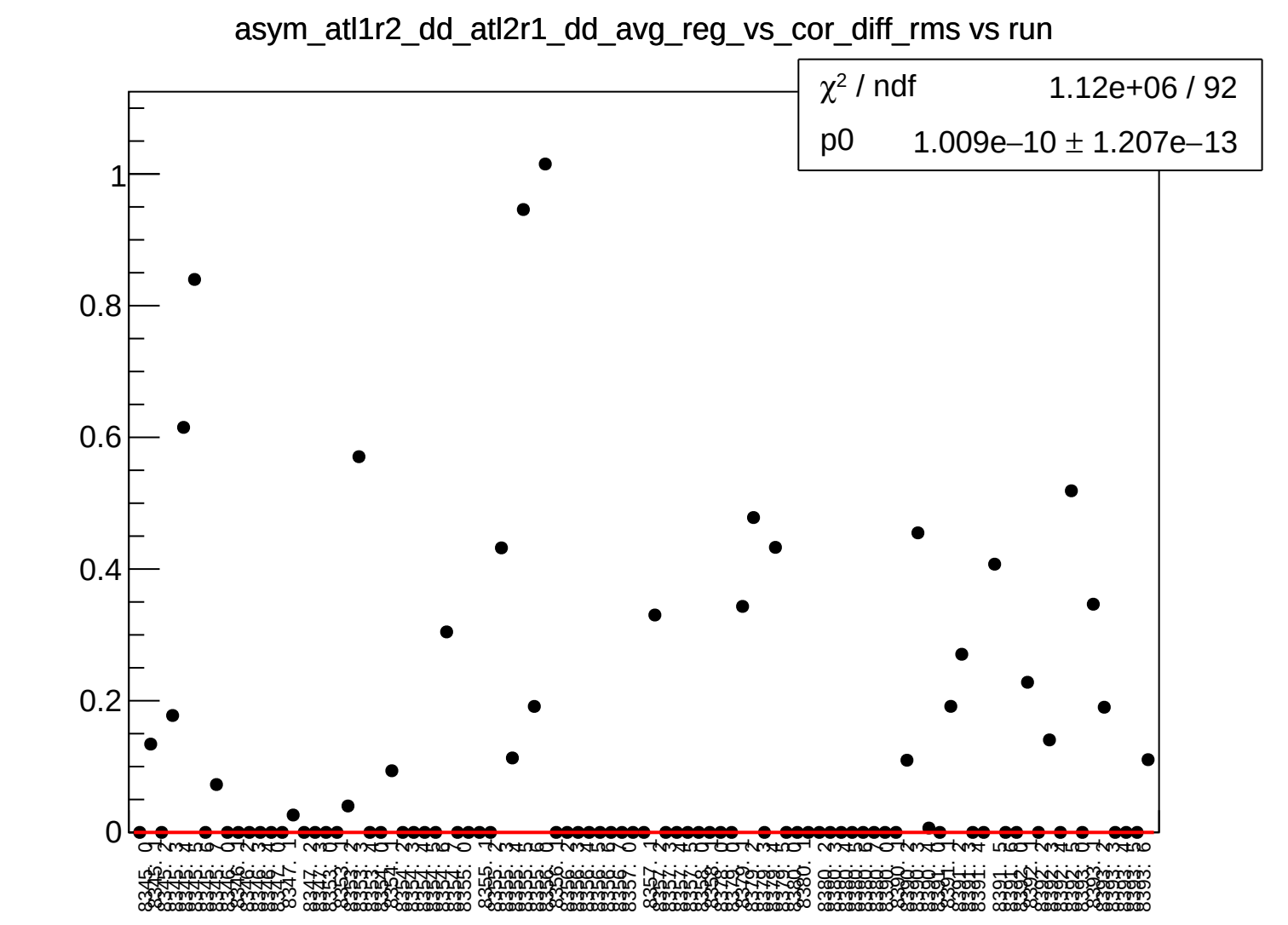

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.319e+04 / 92
p0 1373 ± 1.022
1700
1600
1500
1400
1300
1200

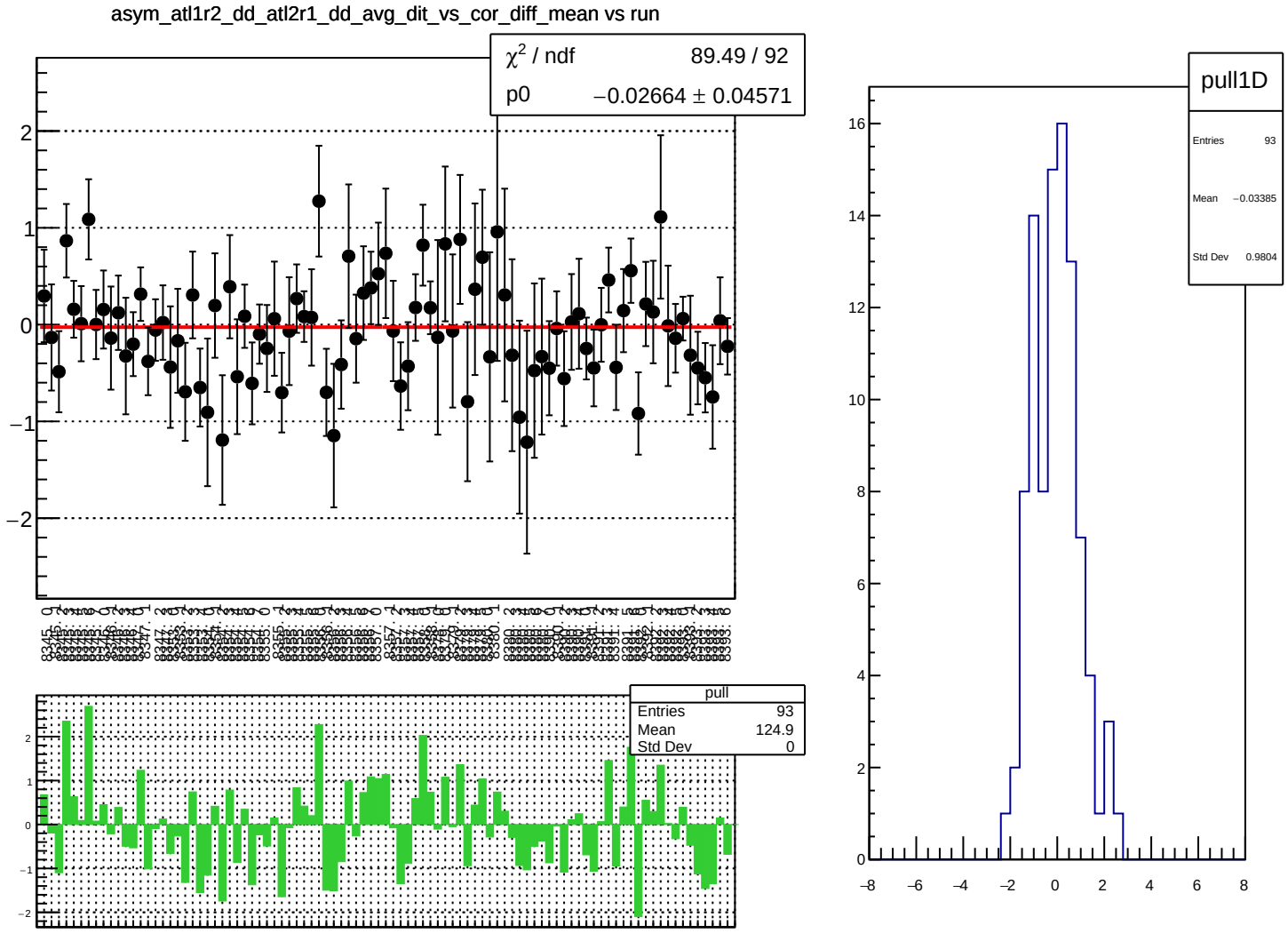

asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 89.01 / 92
p0 1077 ± 1982
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −241.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

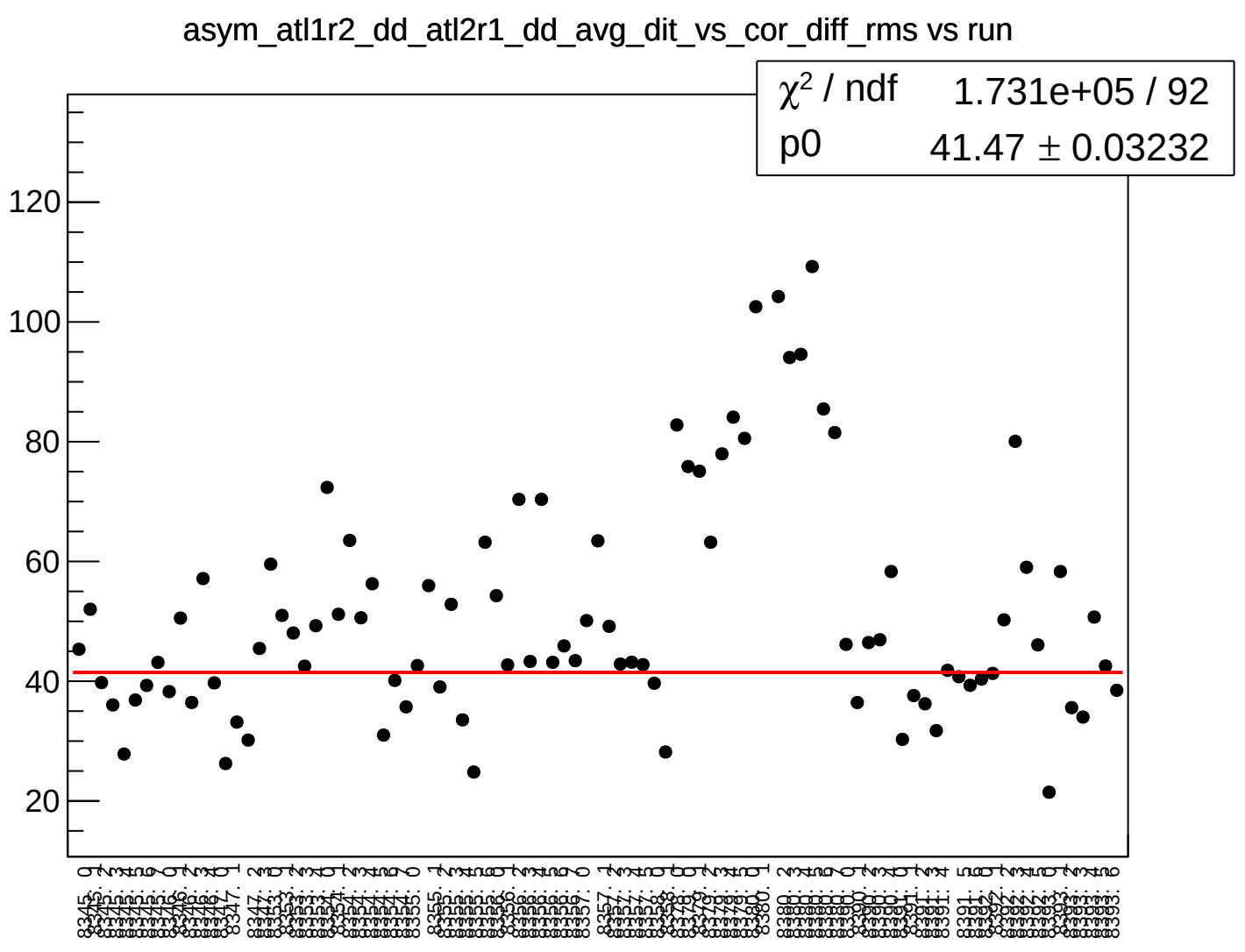

pull1D
Entries 93
Mean −0.01129
Std Dev 0.9782
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

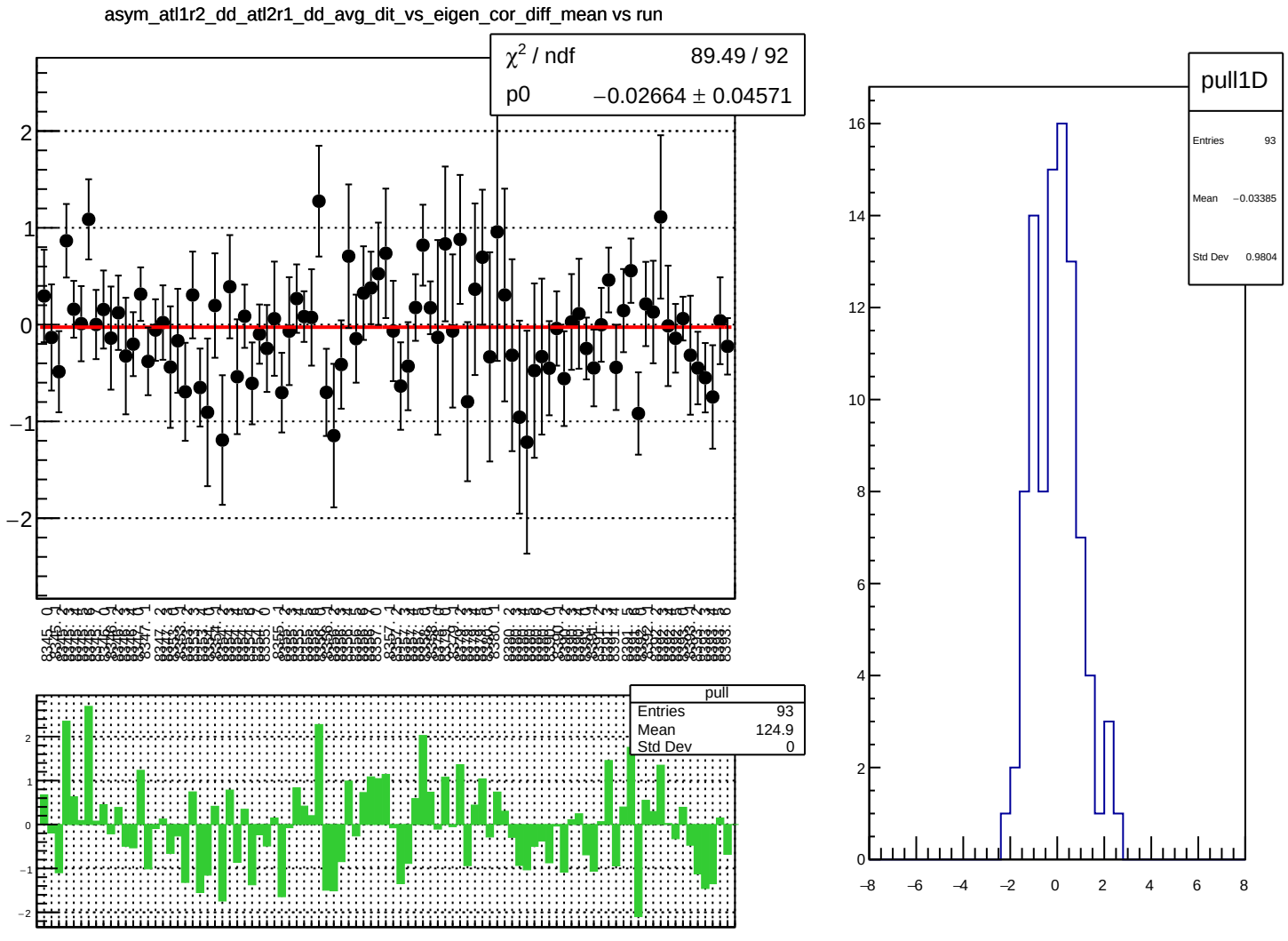

asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 7179 / 92
p0 1886 ± 1.401
2200
2100
2000
1900
1800
1700

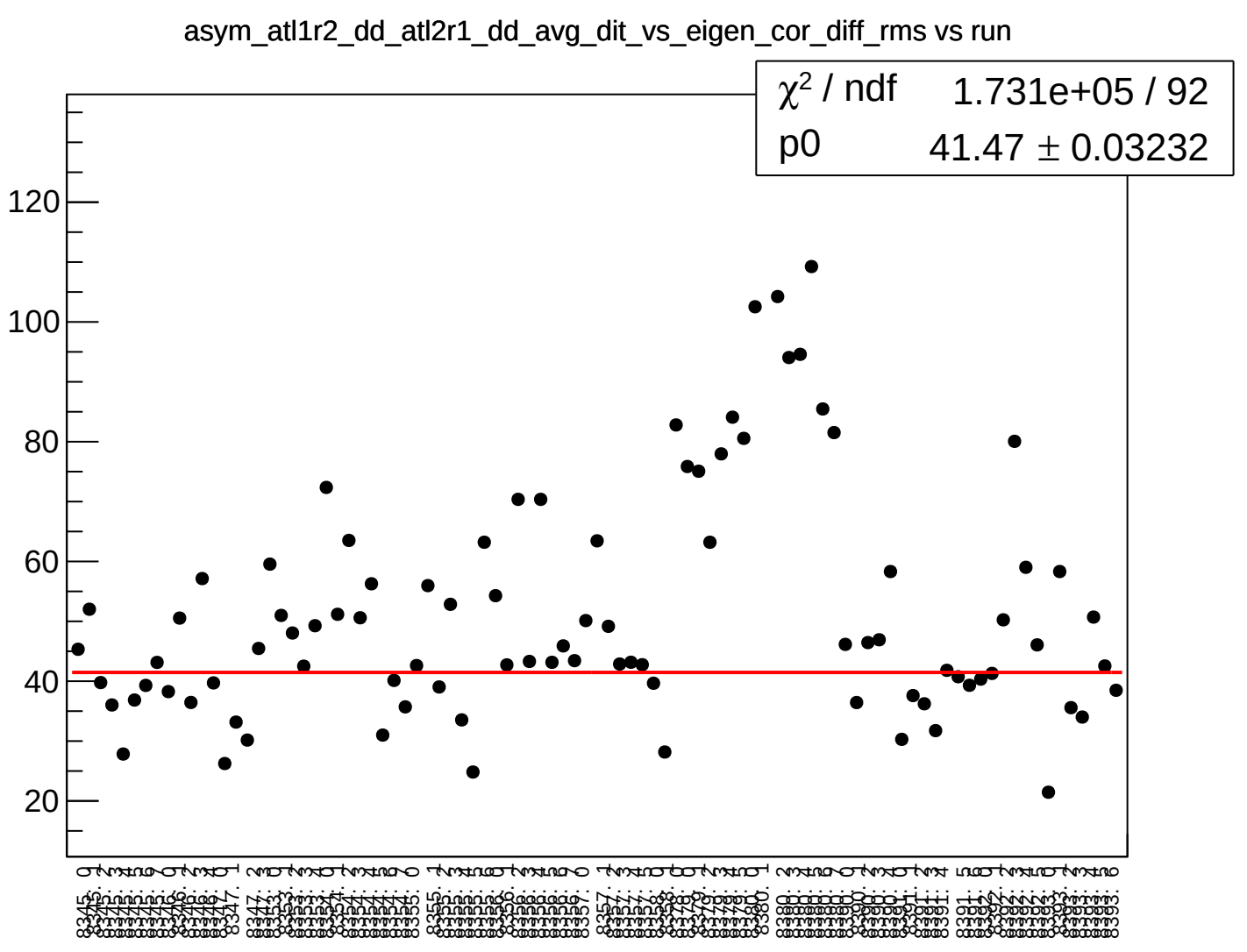

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 95.02 / 92
p0 −3.92e−15 ± 1.707e−13
pull
Entries 93
Mean 510.2
Std Dev 0
pull1D
Entries 93
Mean −0.004343
Std Dev 1.011

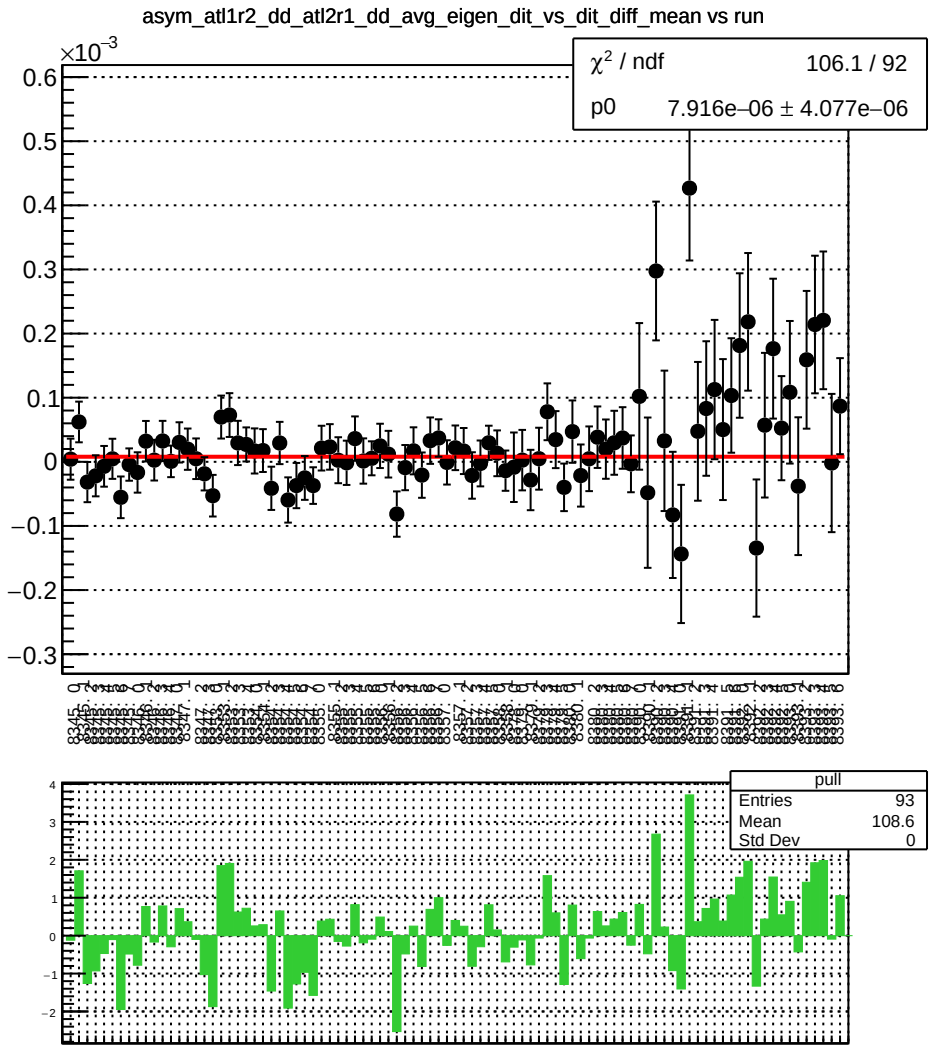

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.12e+06 / 92
p0 1.009e−10 ± 1.207e−13
1
0.8
0.6
0.4
0.2
0

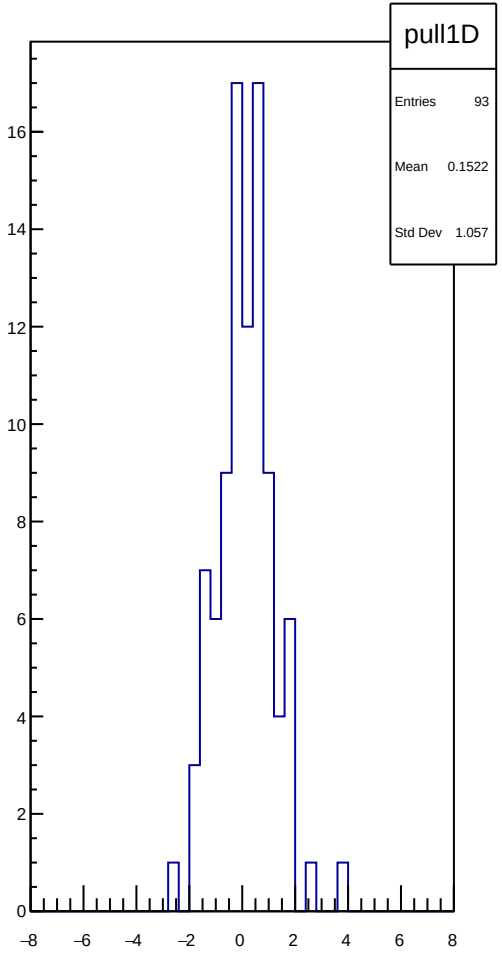

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 89.49 / 92
p0 −0.02664 ± 0.04571
pull
Entries 93
Mean 124.9
Std Dev 0
pull1D
Entries 93
Mean −0.03385
Std Dev 0.9804

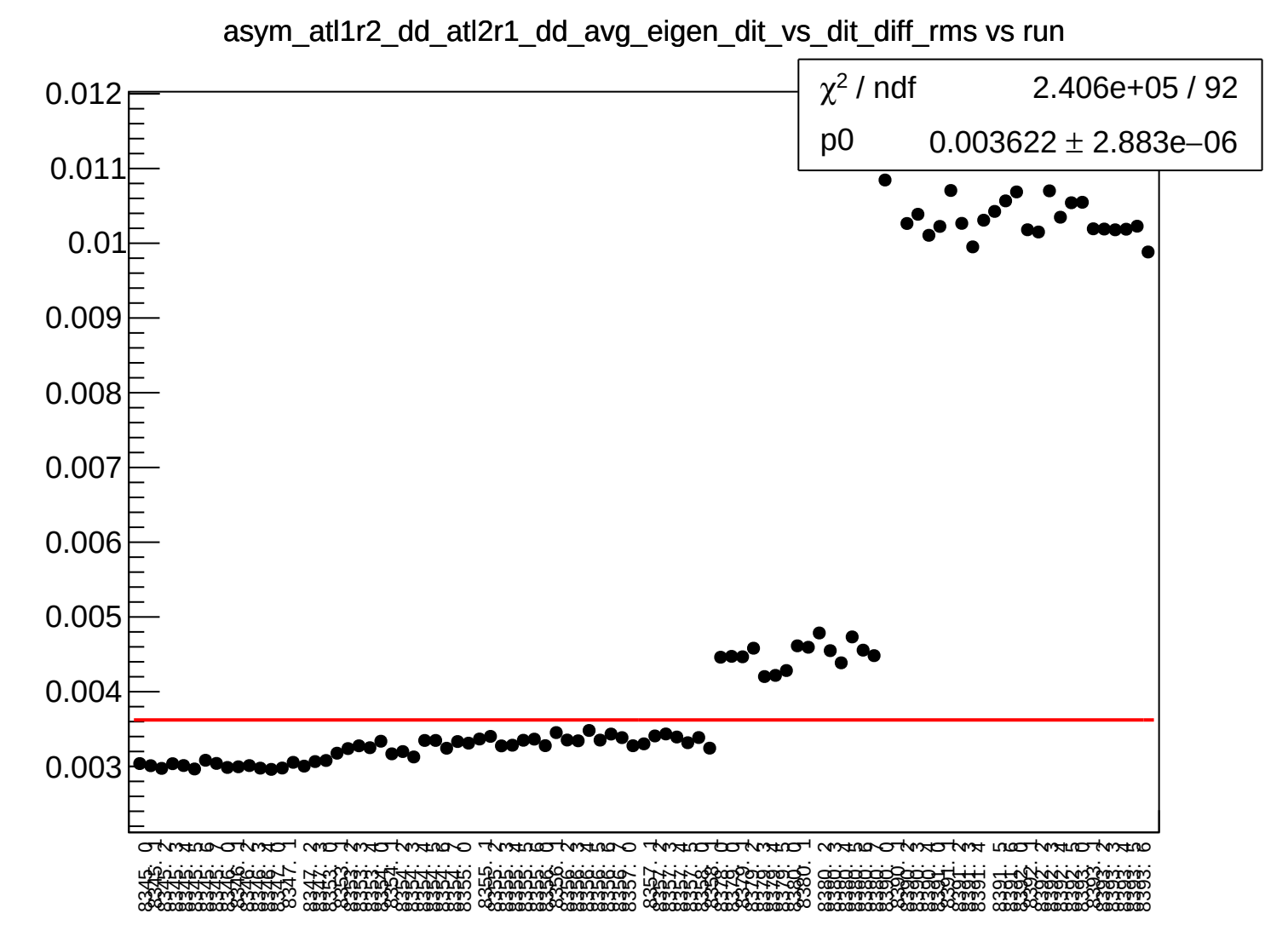

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.731e+05 / 92
p0 41.47 ± 0.03232
120
100
80
60
40
20

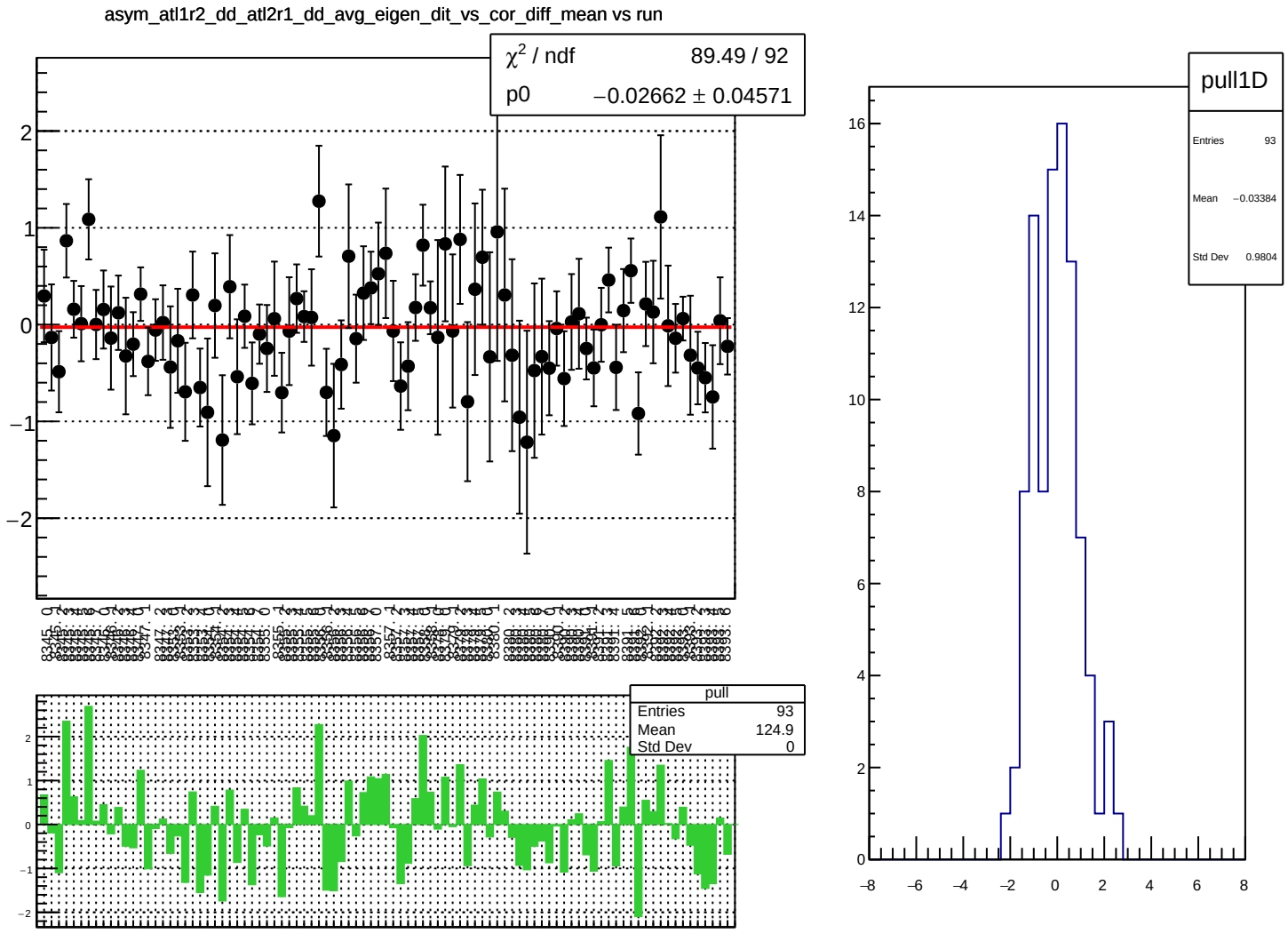

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.49 / 92
p0 −0.02664 ± 0.04571
pull
Entries 93
Mean 124.9
Std Dev 0
pull1D
Entries 93
Mean −0.03385
Std Dev 0.9804

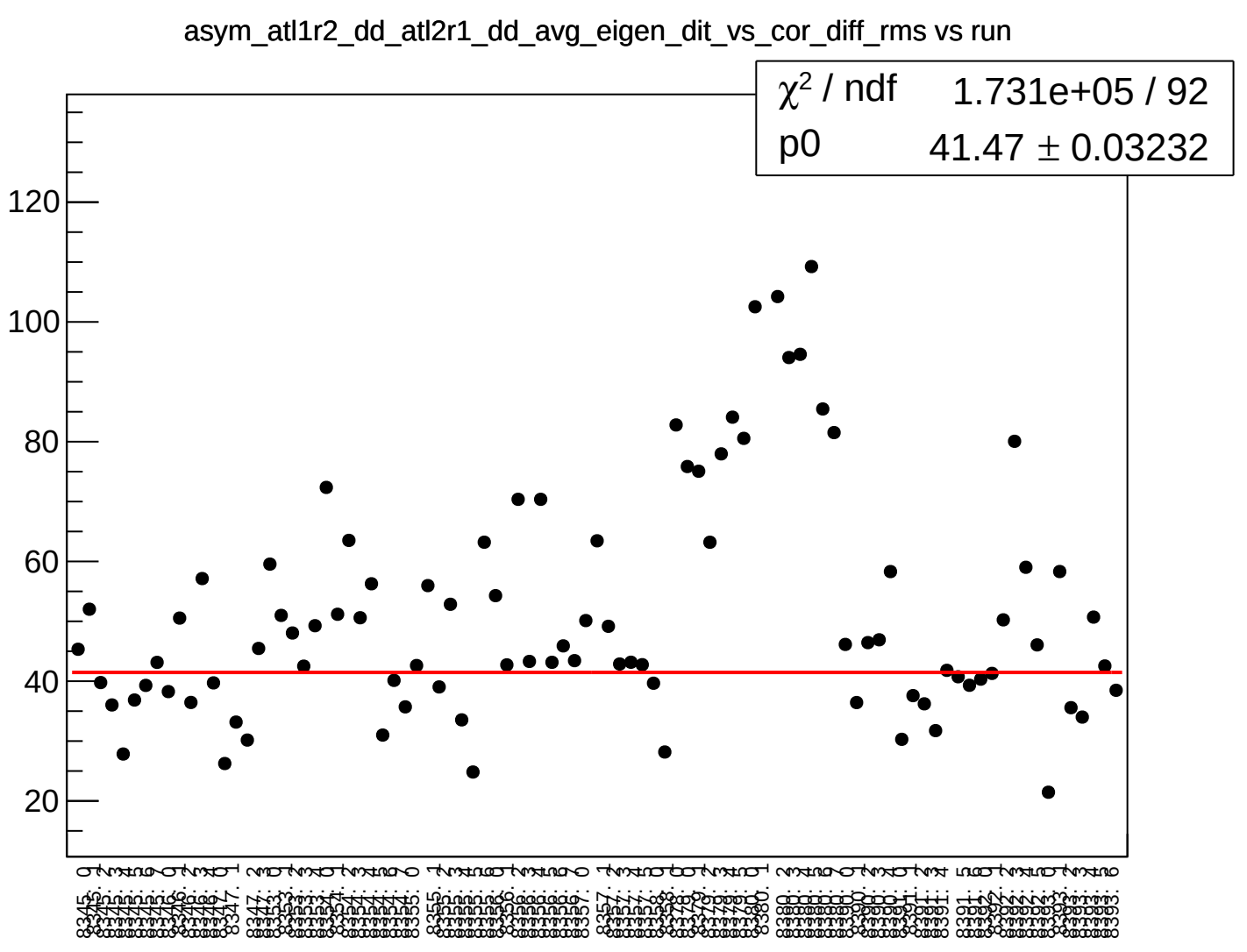

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.731e+05 / 92
p0 41.47 ± 0.03232
120
100
80
60
40
20

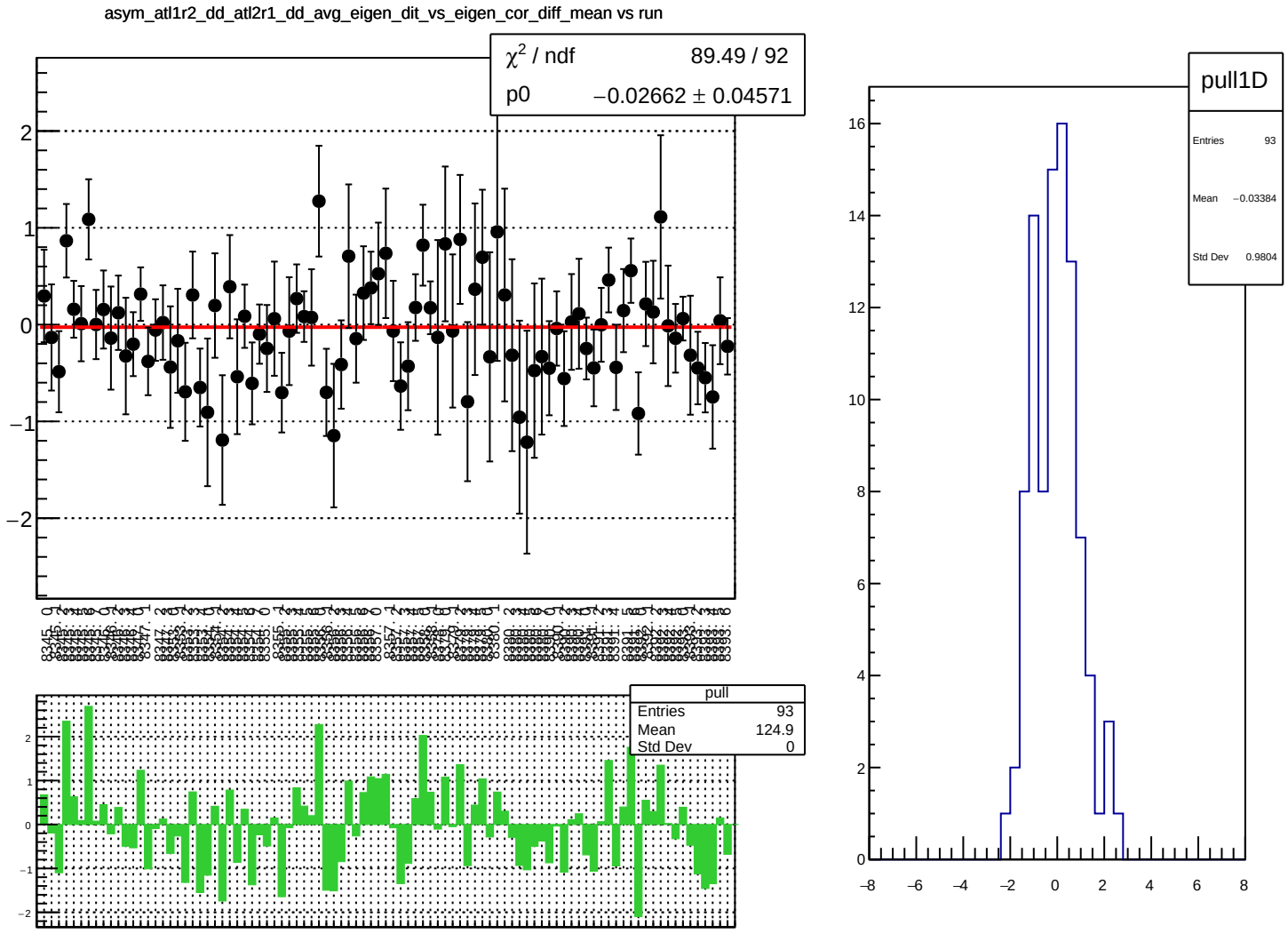

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 106.1 / 92
p0 7.916e−06 ± 4.077e−06
pull
Entries 93
Mean 108.6
Std Dev 0

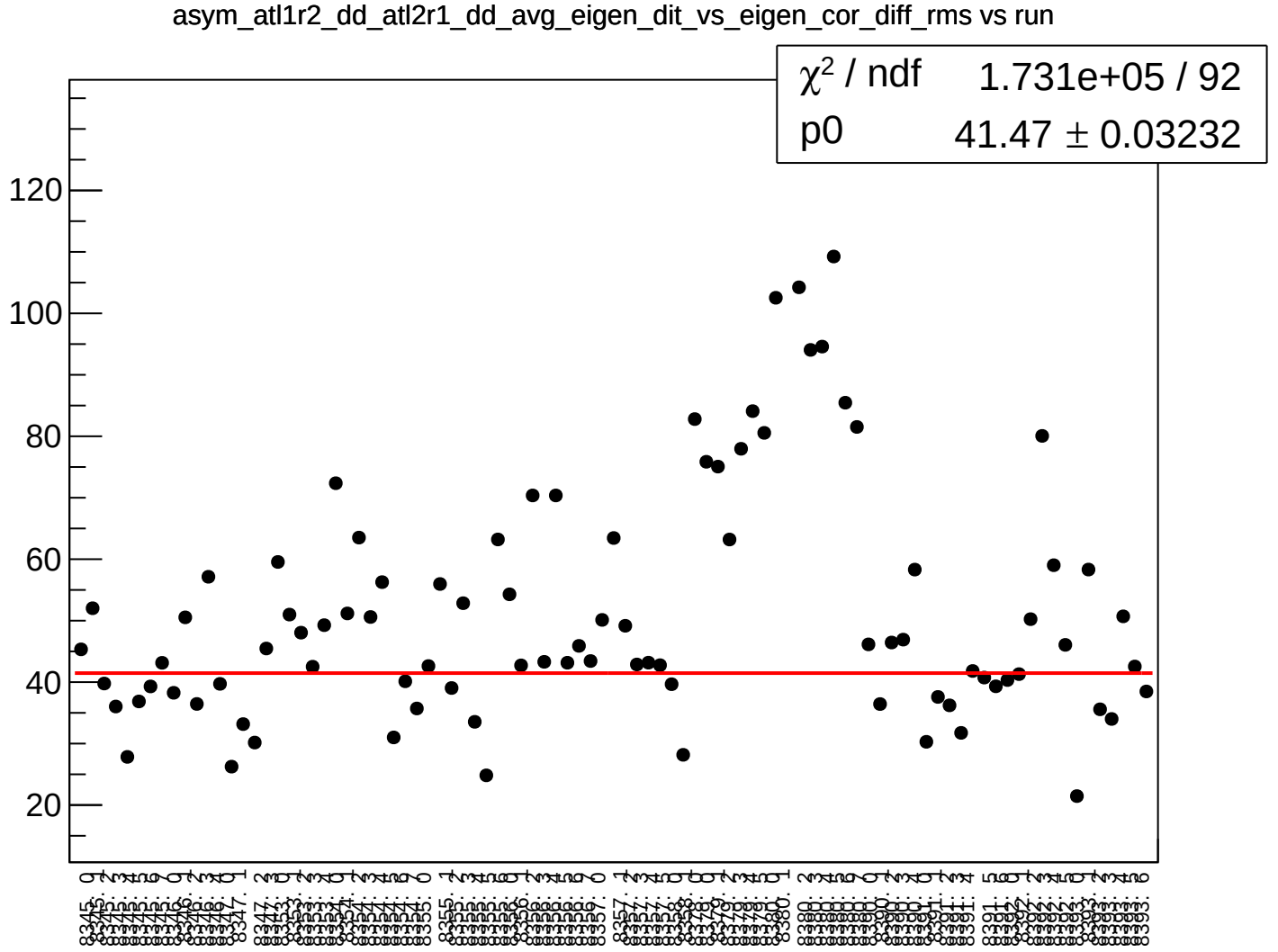

pull1D
Entries 93
Mean 0.1522
Std Dev 1.057

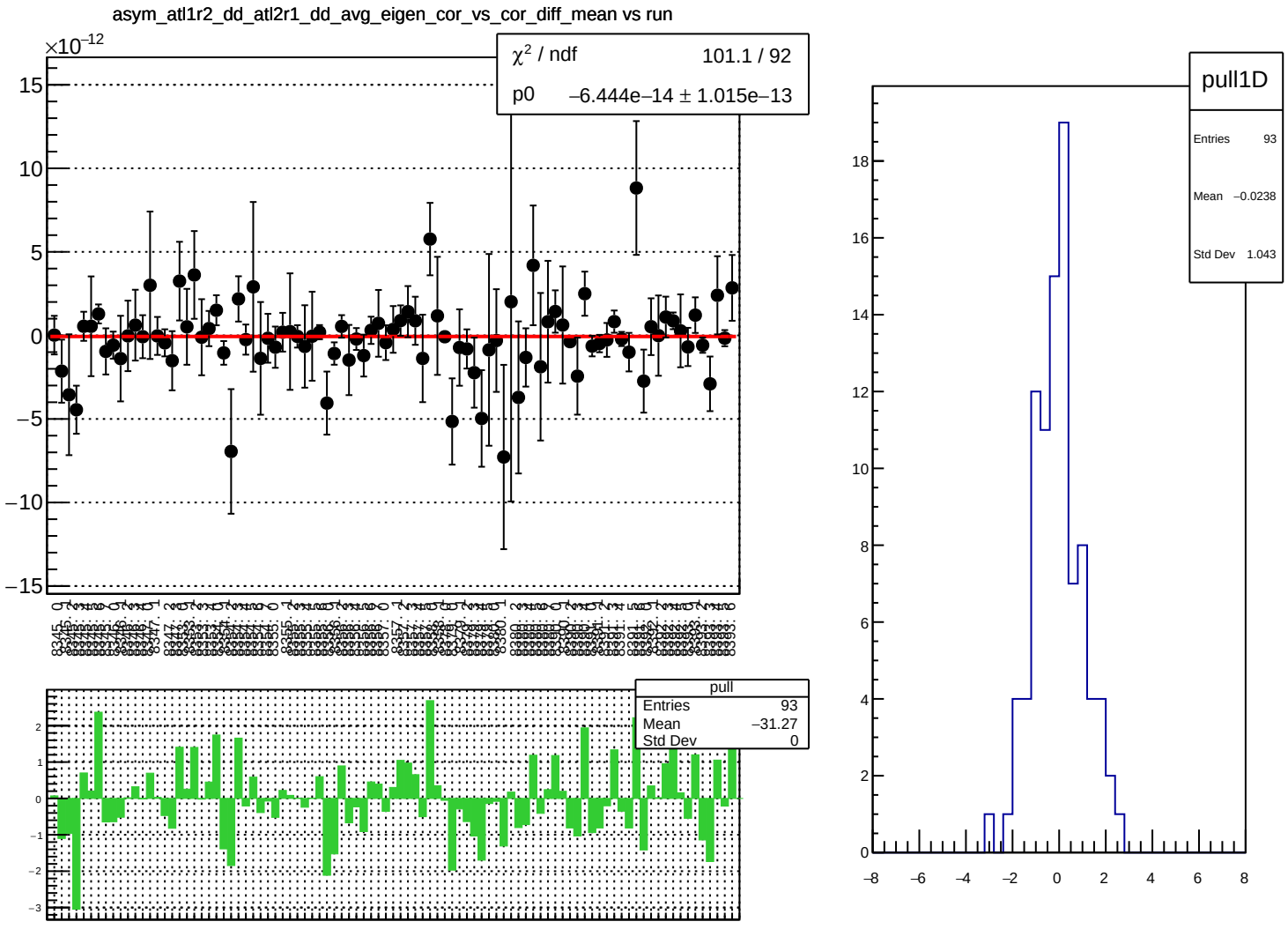

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.406e+05 / 92
p0 0.003622 ± 2.883e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

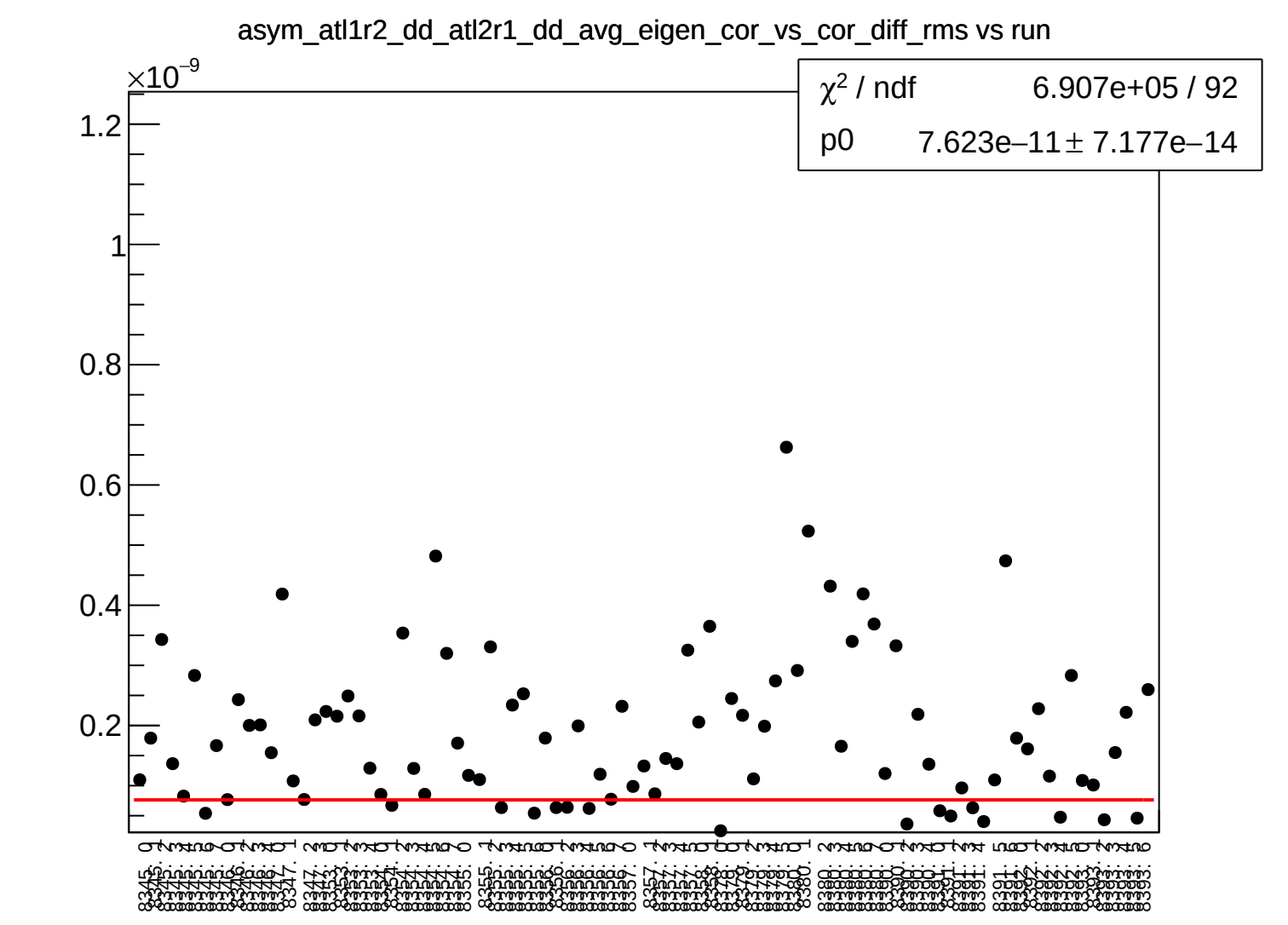

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.49 / 92
p0 −0.02662 ± 0.04571
pull
Entries 93
Mean 124.9
Std Dev 0
pull1D
Entries 93
Mean −0.03384
Std Dev 0.9804

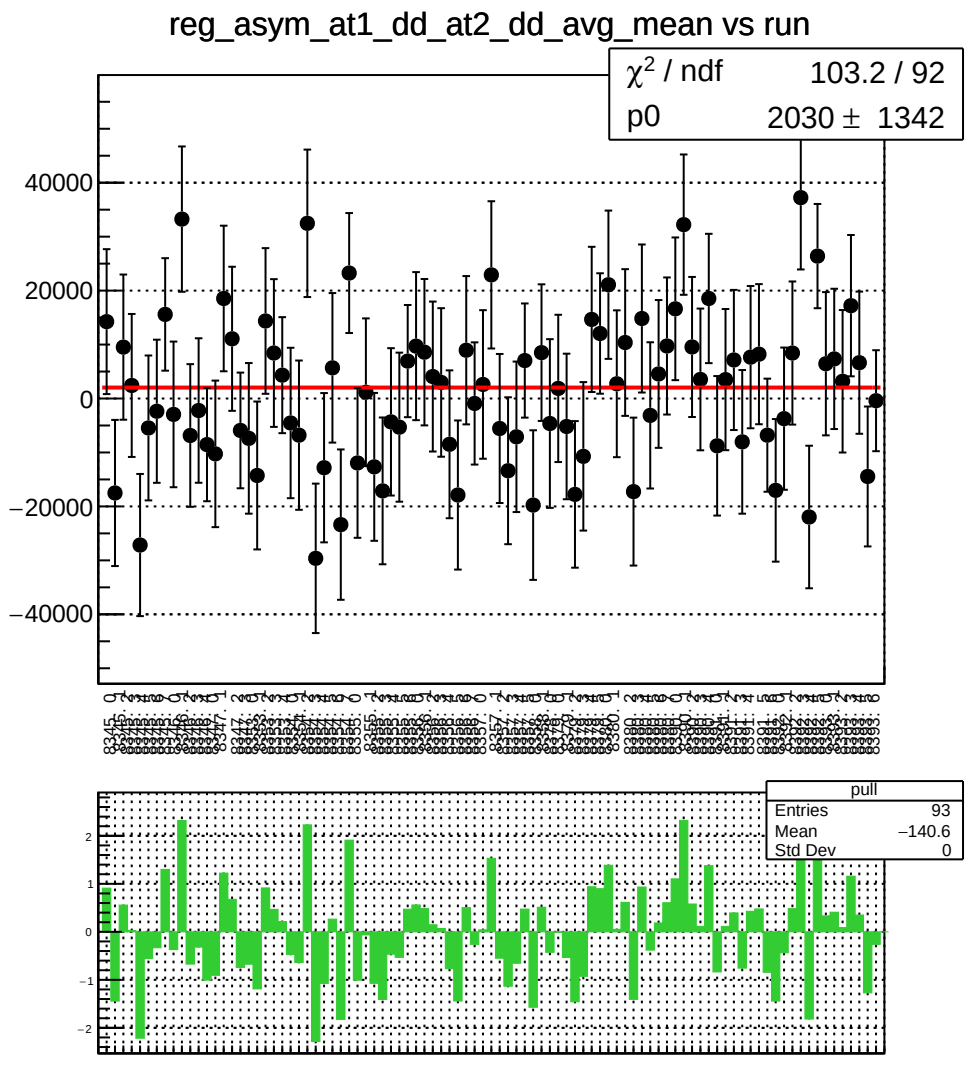

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.731e+05 / 92
p0 41.47 ± 0.03232
120
100
80
60
40
20

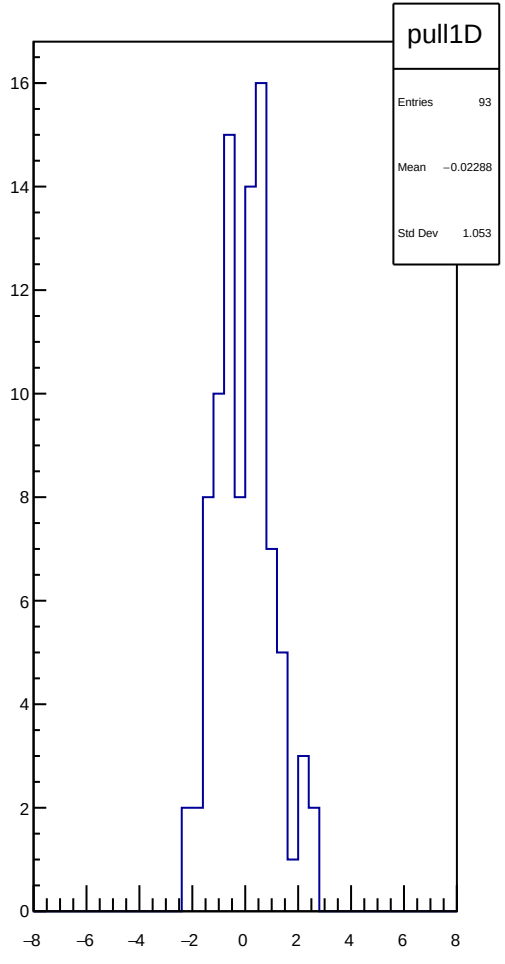

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.49 / 92
p0 −0.02662 ± 0.04571
pull
Entries 93
Mean 124.9
Std Dev 0
pull1D
Entries 93
Mean −0.03384
Std Dev 0.9804

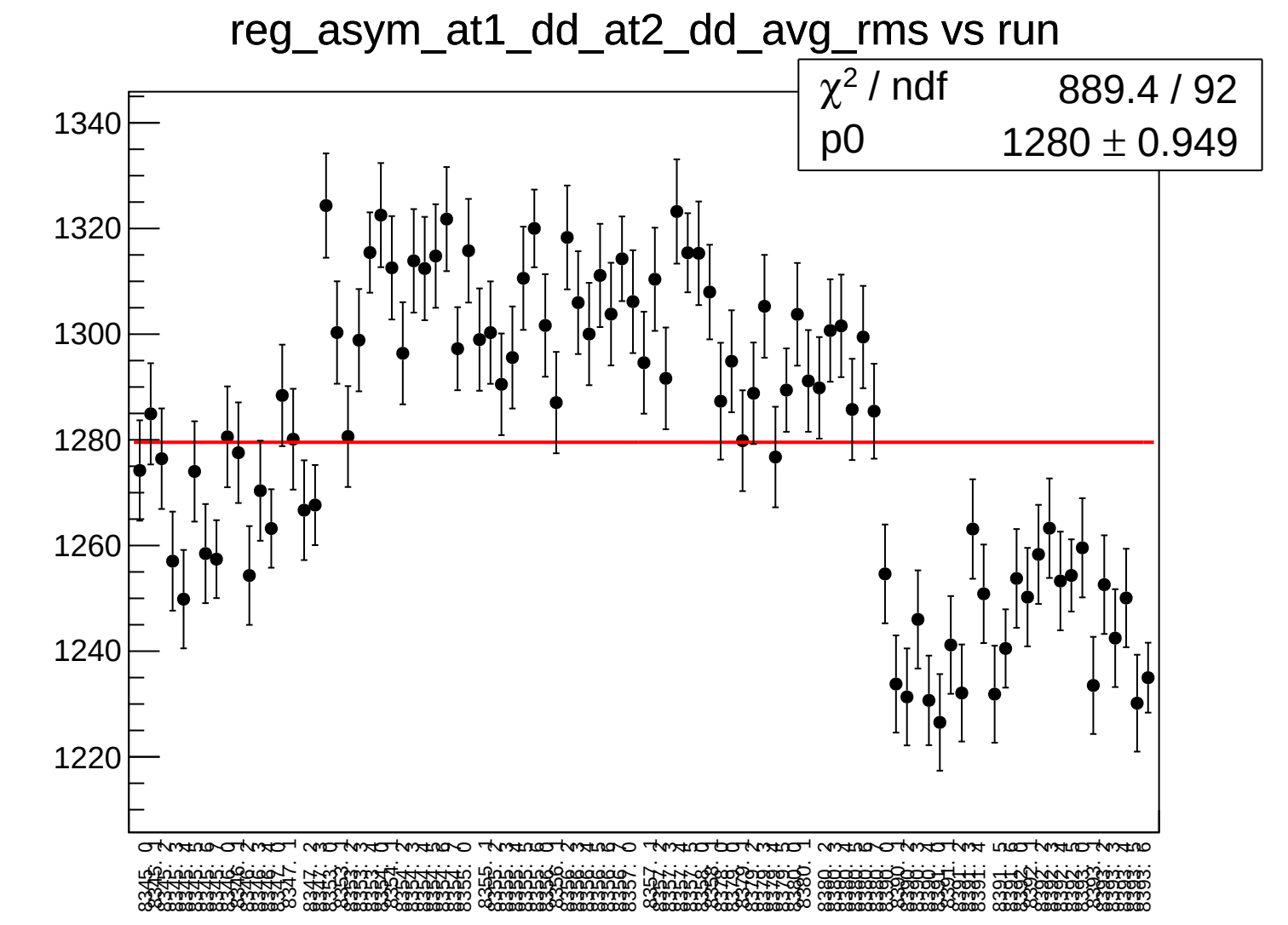

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.731e+05 / 92
p0 41.47 ± 0.03232
120
100
80
60
40
20

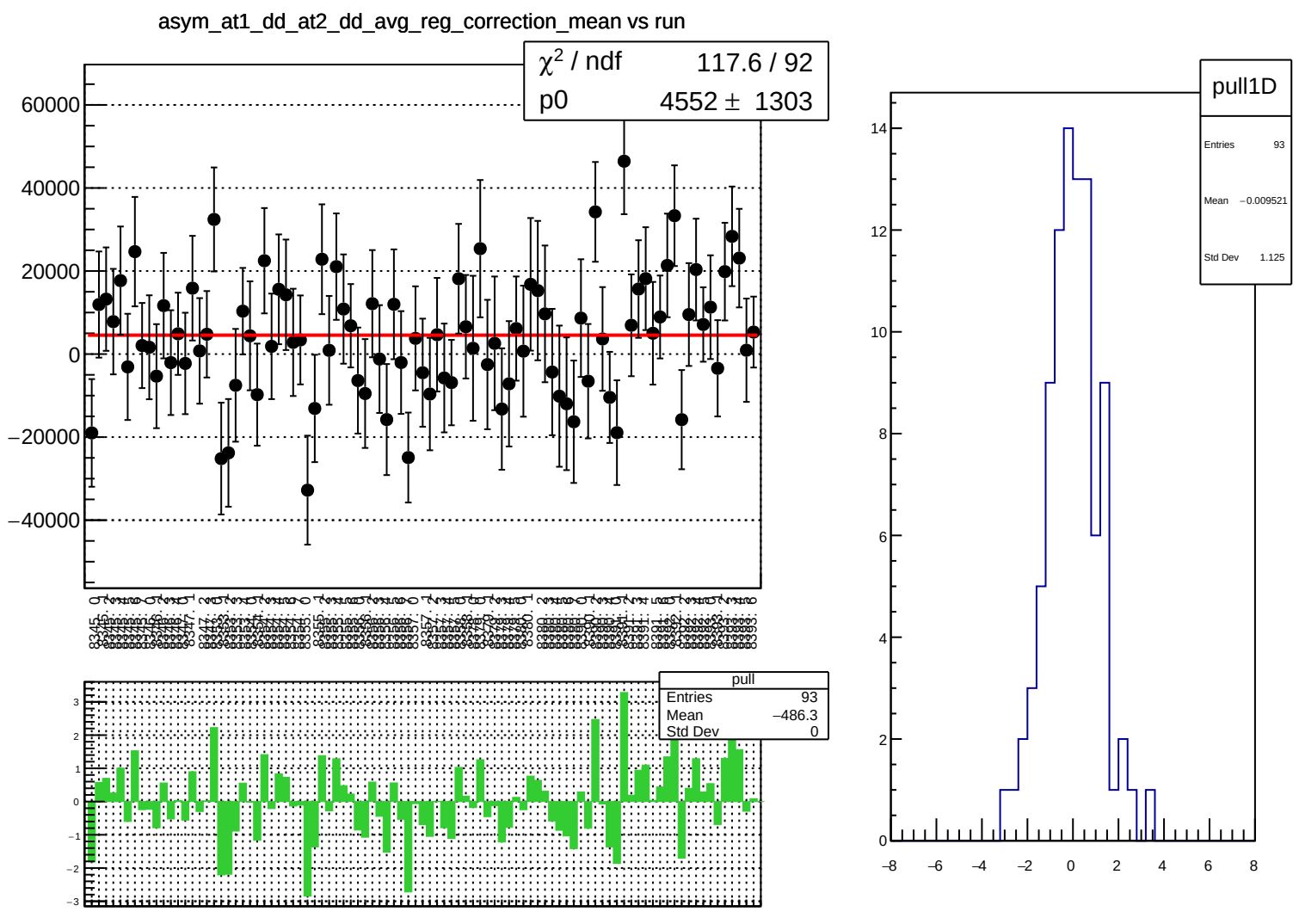

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 101.1 / 92
p0 −6.444e−14 ± 1.015e−13
pull
Entries 93
Mean −31.27
Std Dev 0
pull1D
Entries 93
Mean −0.0238
Std Dev 1.043

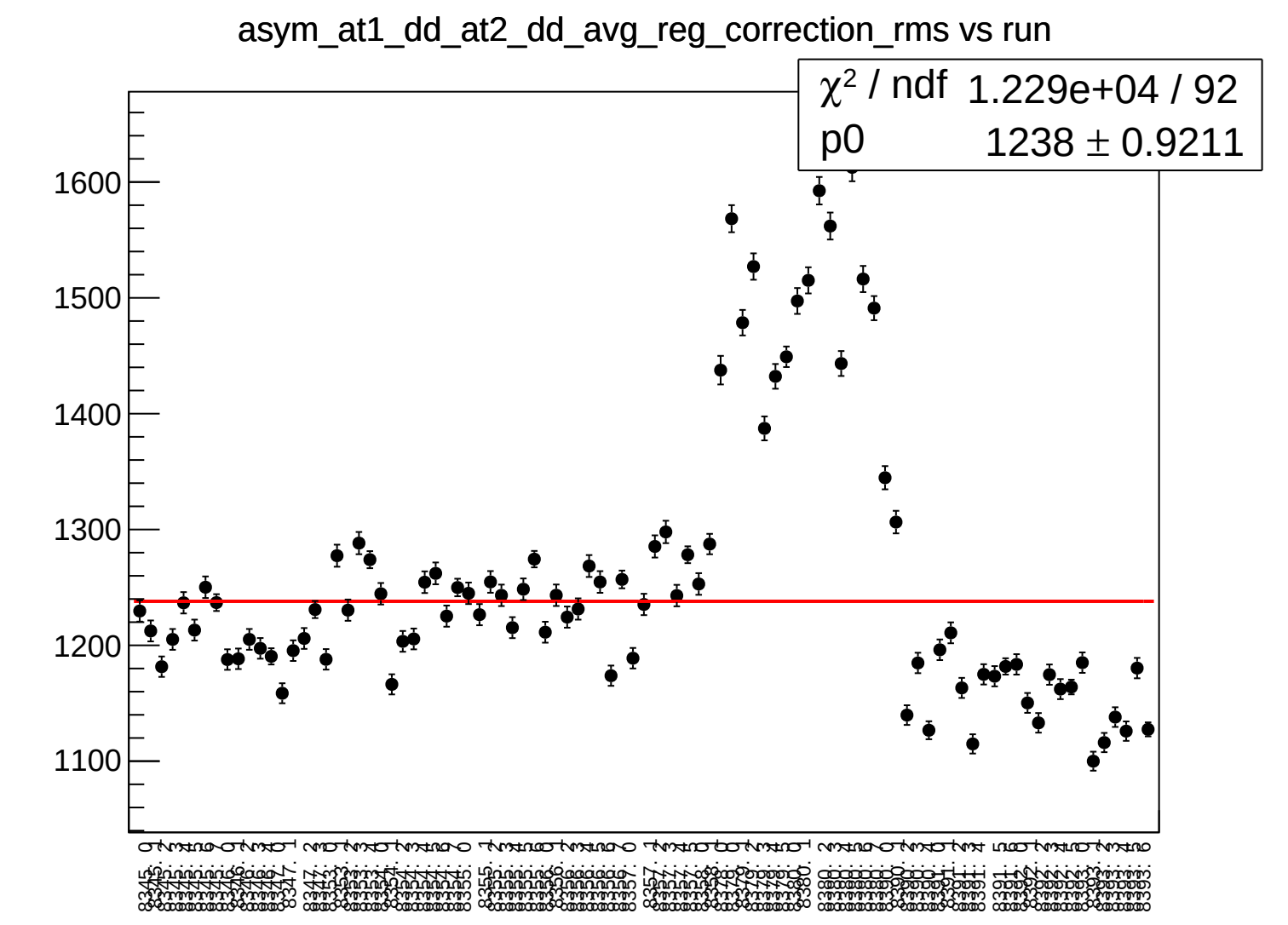

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.907e+05 / 92
p0 7.623e−11 ± 7.177e−14
1.2
1
0.8
0.6
0.4
0.2

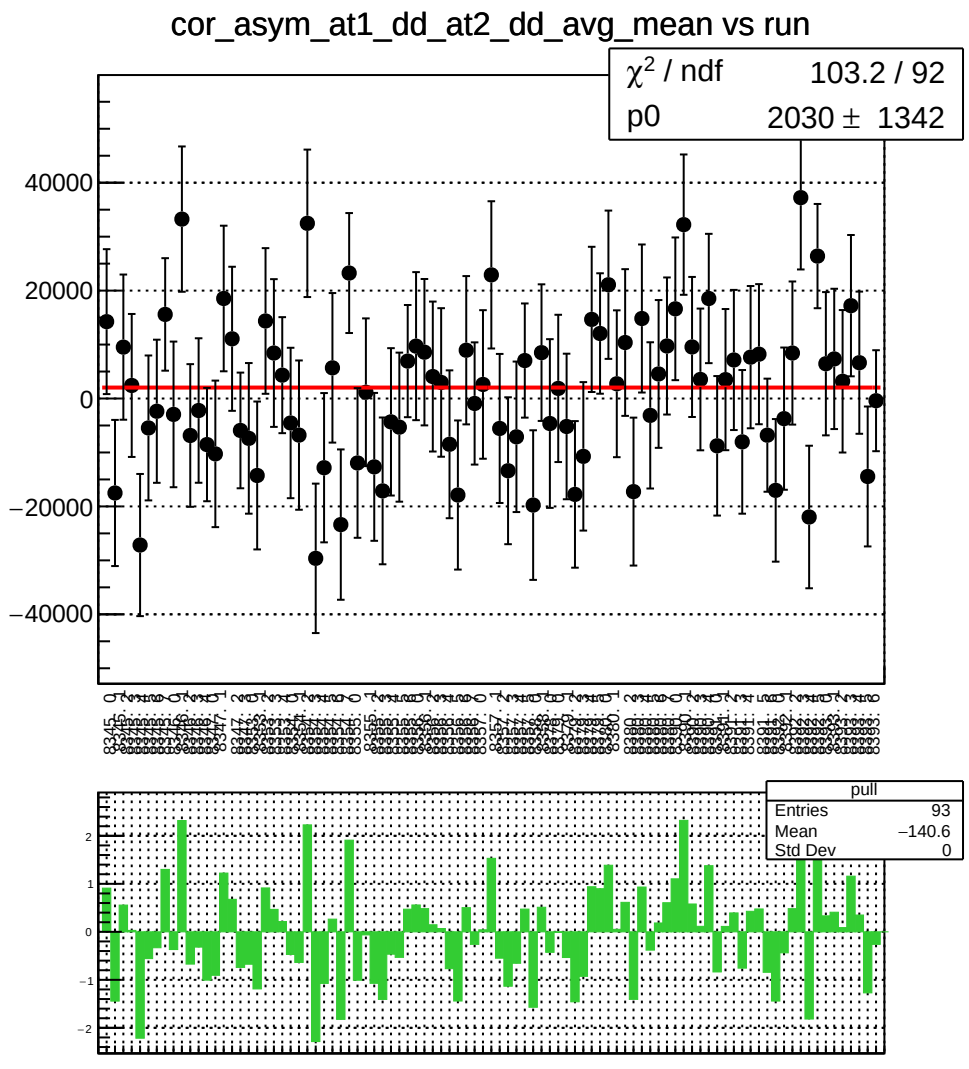

reg_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 103.2 / 92
p0 2030 ± 1342
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −140.6
Std Dev 0
2
1
0
−1
−2

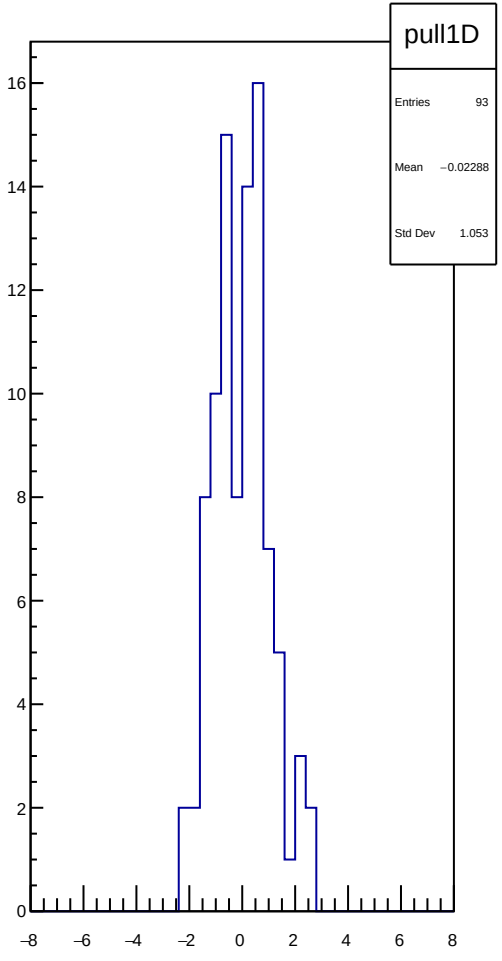

pull1D
Entries 93
Mean −0.02288
Std Dev 1.053
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

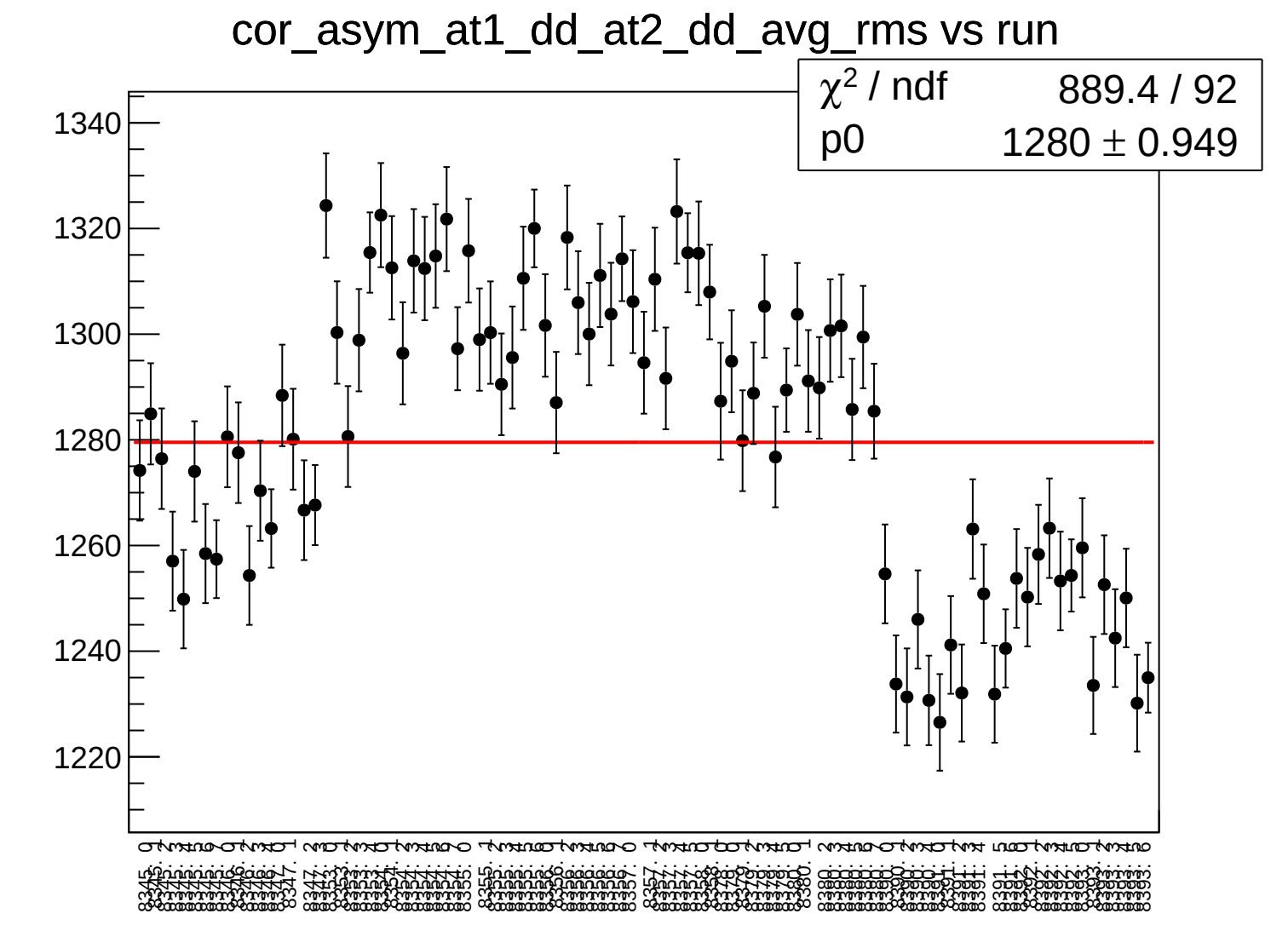

reg_asym_at1_dd_at2_dd_avg_rms vs run
χ^2 / ndf 889.4 / 92
p0 1280 ± 0.949
1340
1320
1300
1280
1260
1240
1220

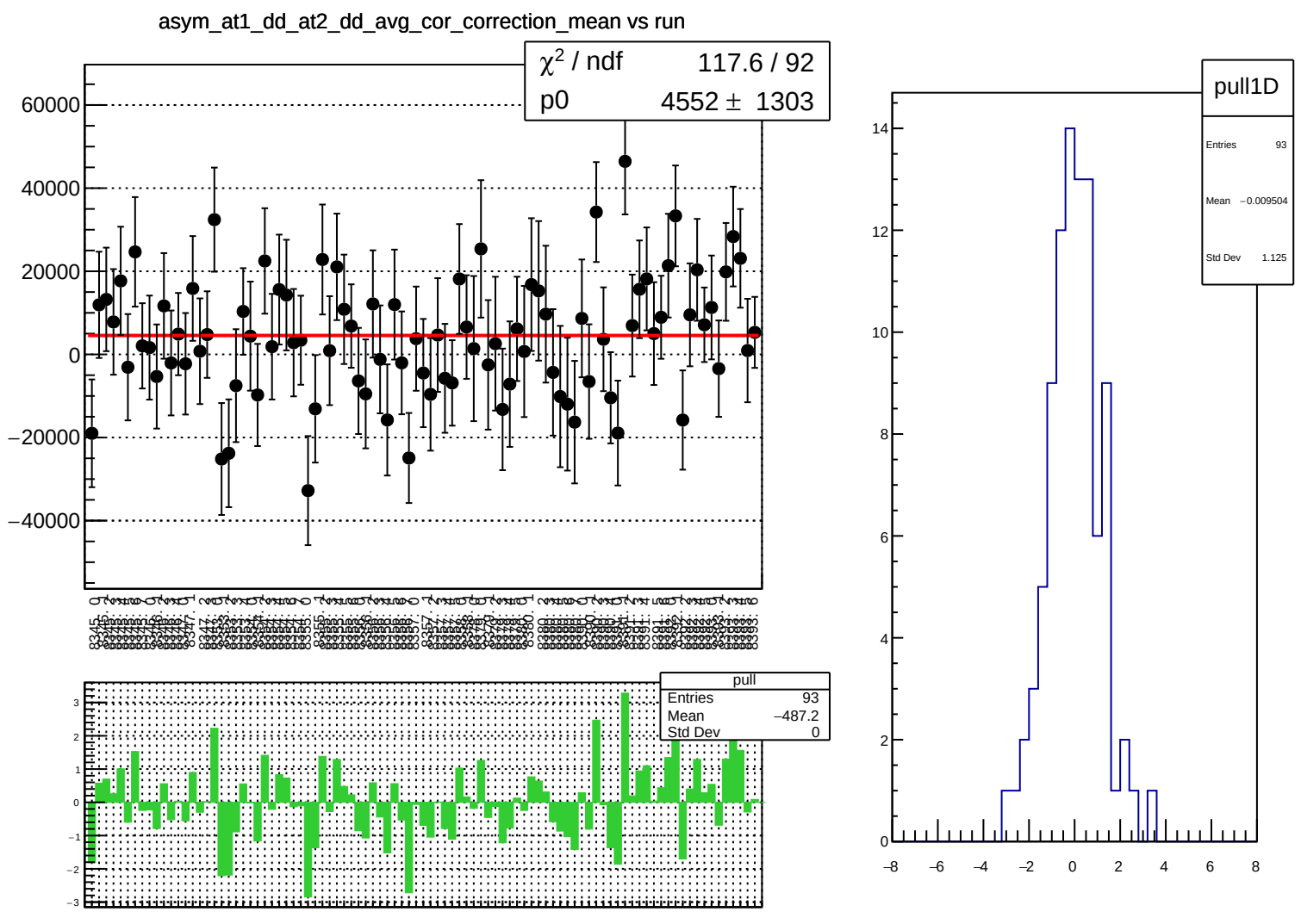

asym_at1_dd_at2_dd_avg_reg_correction_mean vs run
χ² / ndf 117.6 / 92
p0 4552 ± 1303
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −486.3
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.009521
Std Dev 1.125
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

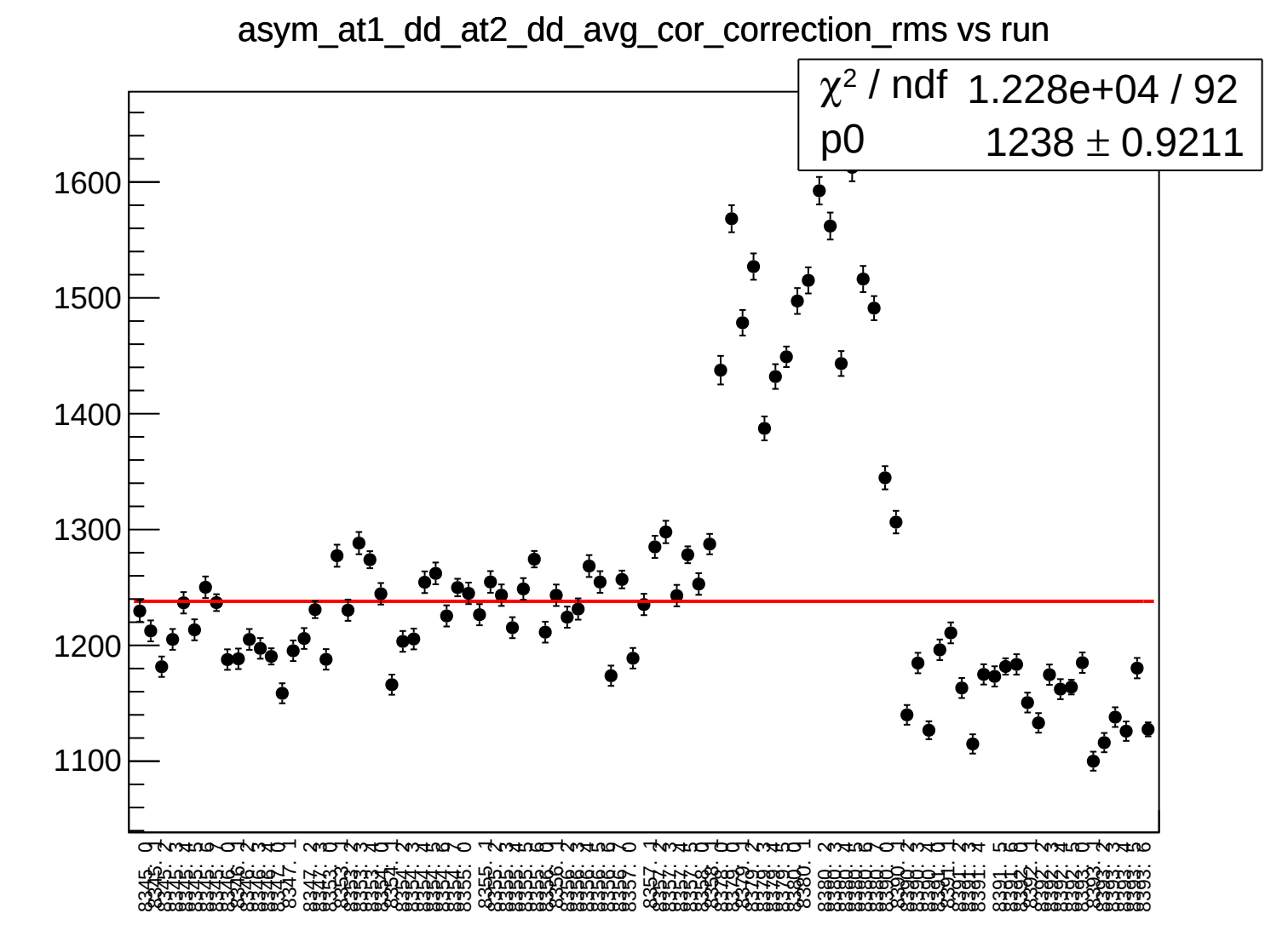

asym_at1_dd_at2_dd_avg_reg_correction_rms vs run
χ² / ndf 1.229e+04 / 92
p0 1238 ± 0.9211
1600
1500
1400
1300
1200
1100

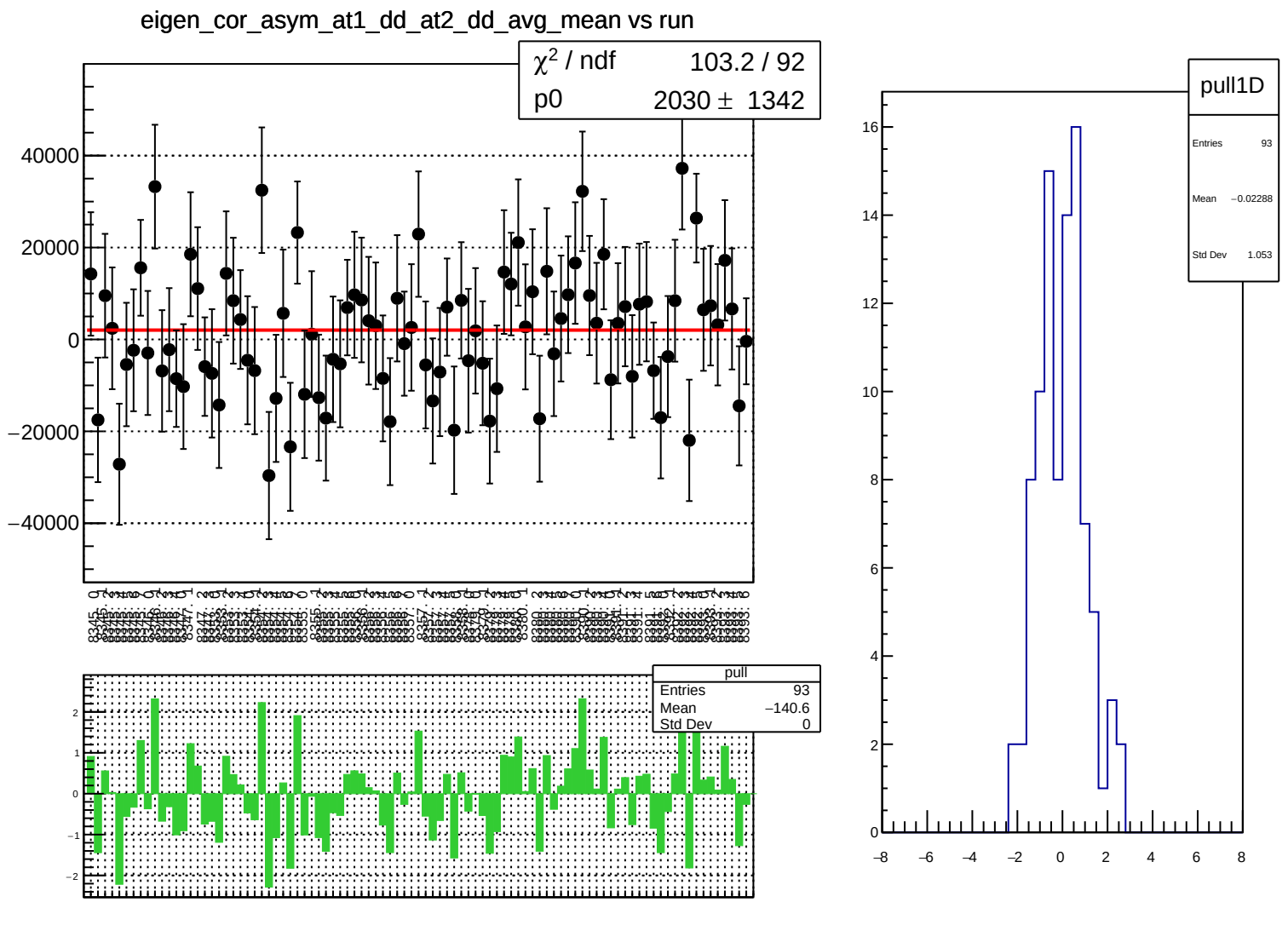

cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 103.2 / 92
p0 2030 ± 1342
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −140.6
Std Dev 0
2
1
0
−1
−2

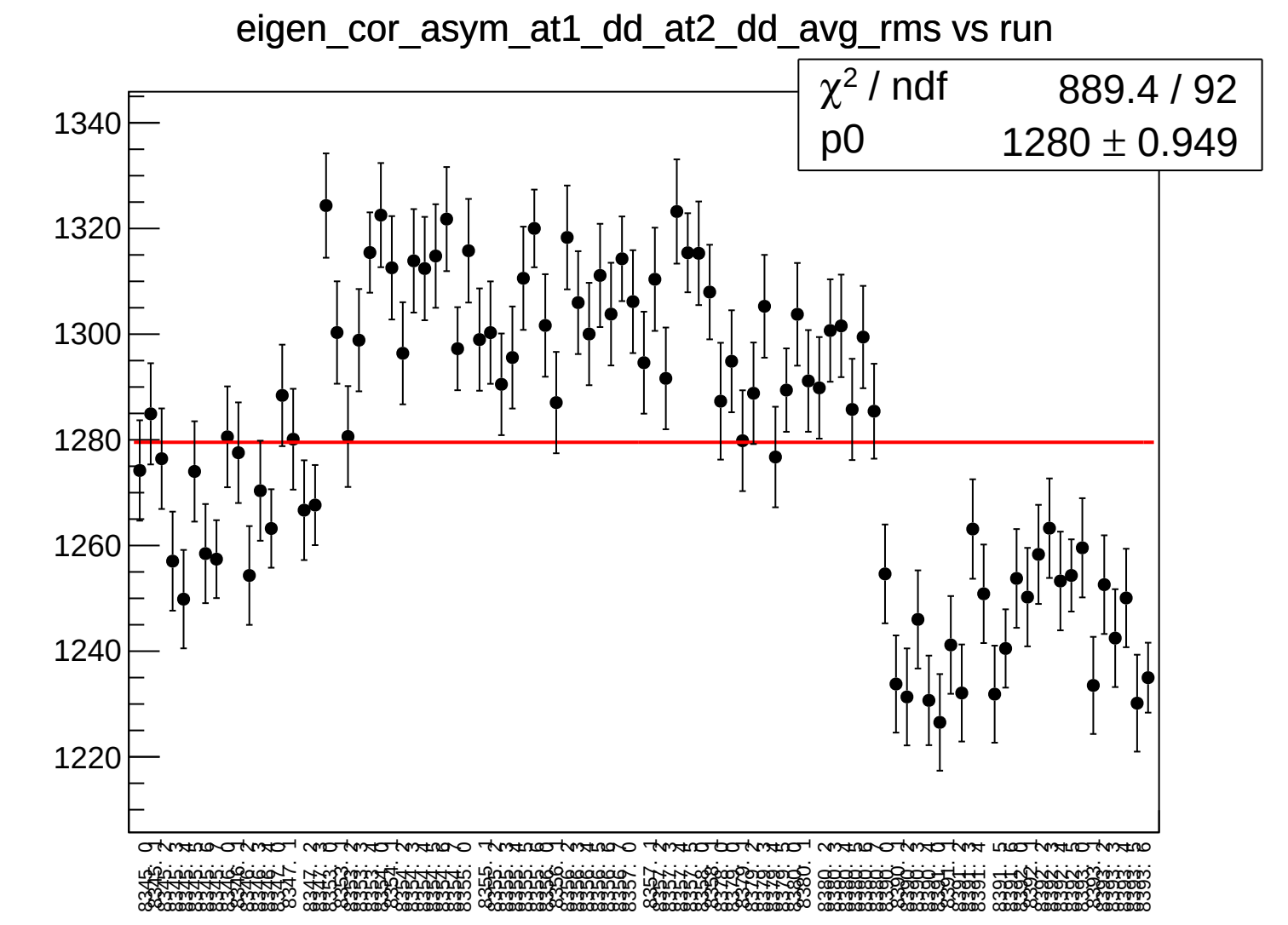

pull1D
Entries 93
Mean −0.02288
Std Dev 1.053
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

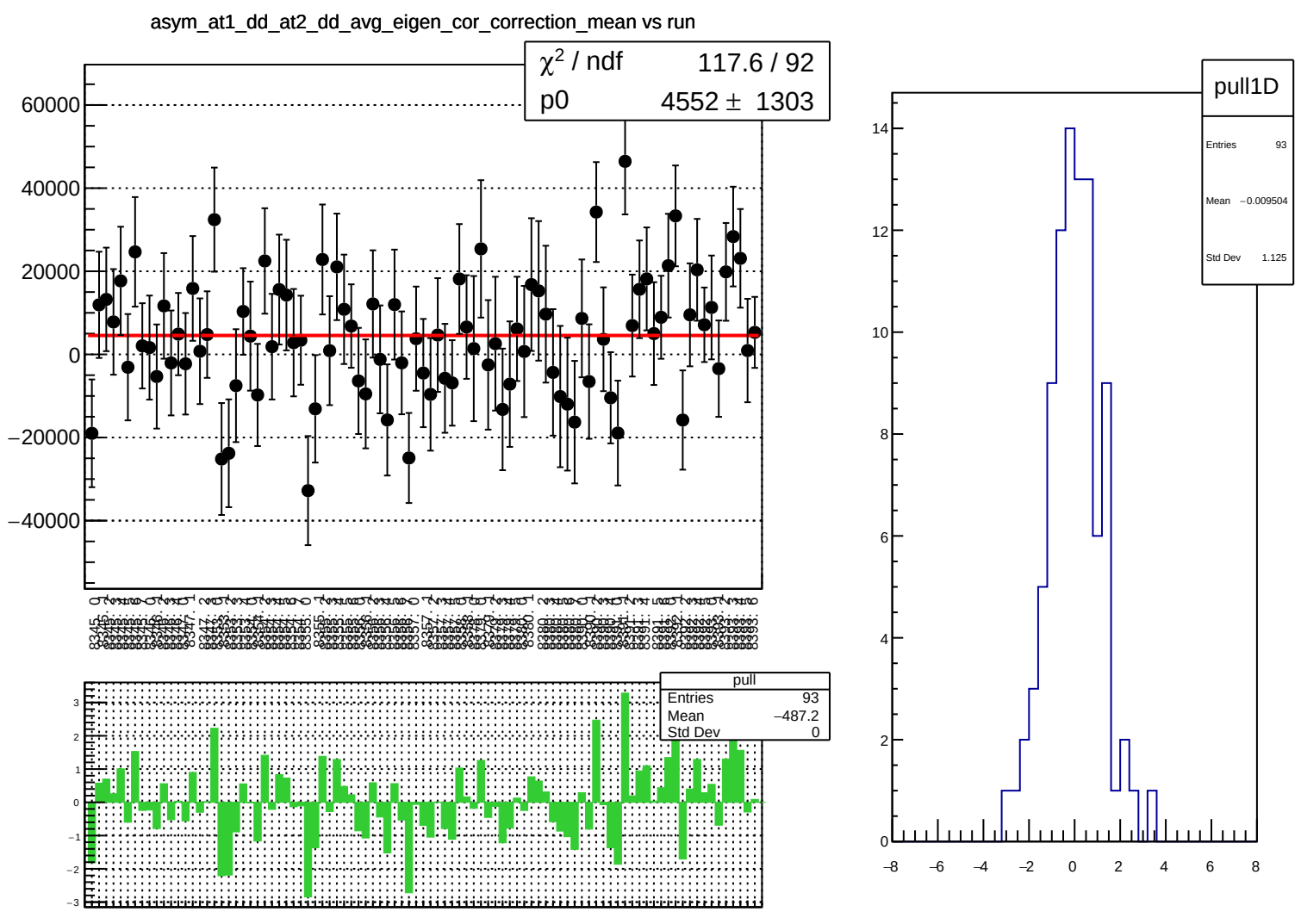

cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 889.4 / 92
p0 1280 ± 0.949
1340
1320
1300
1280
1260
1240
1220

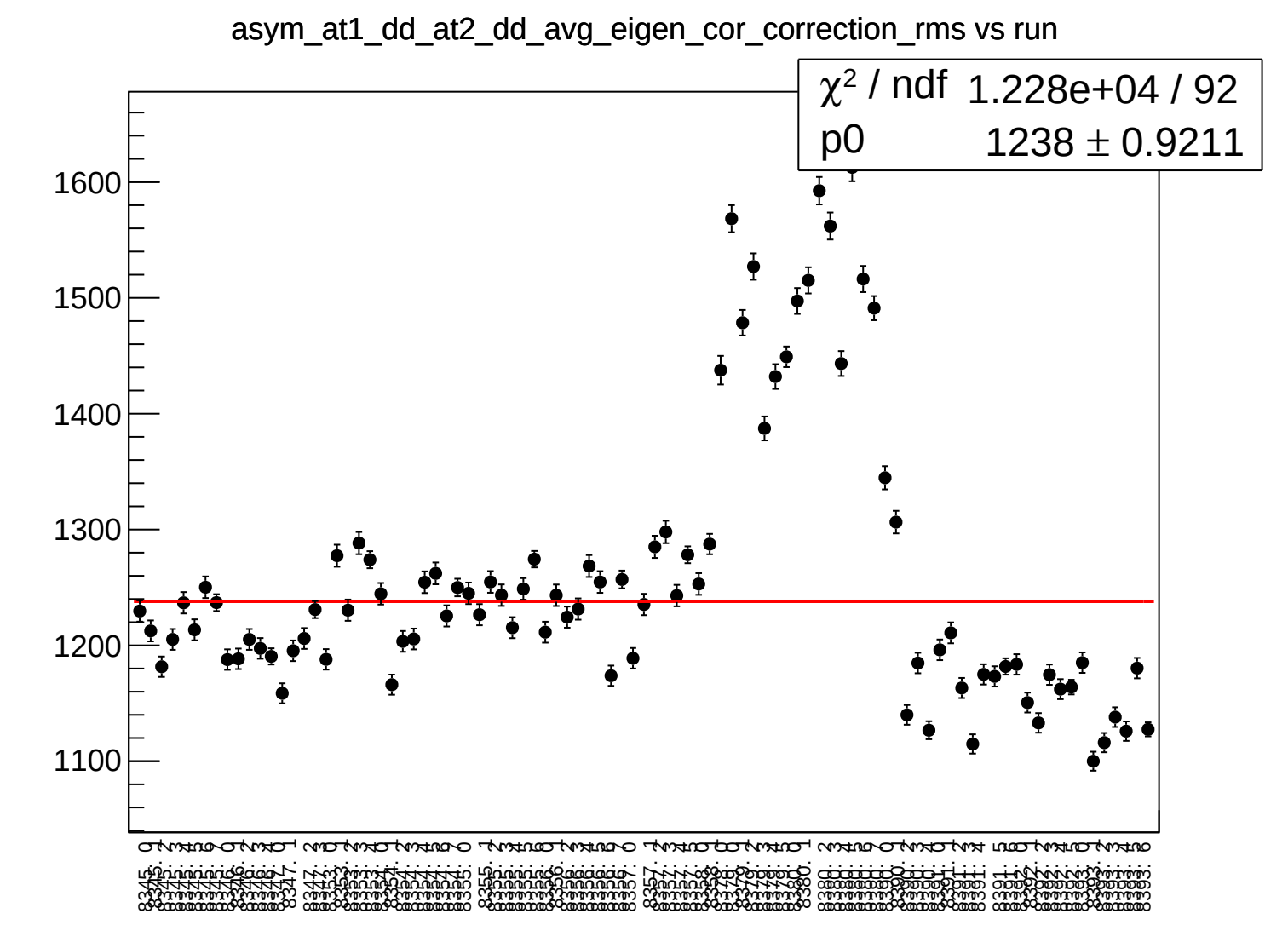

asym_at1_dd_at2_dd_avg_cor_correction_mean vs run
χ² / ndf 117.6 / 92
p0 4552 ± 1303
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −487.2
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.009504
Std Dev 1.125
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

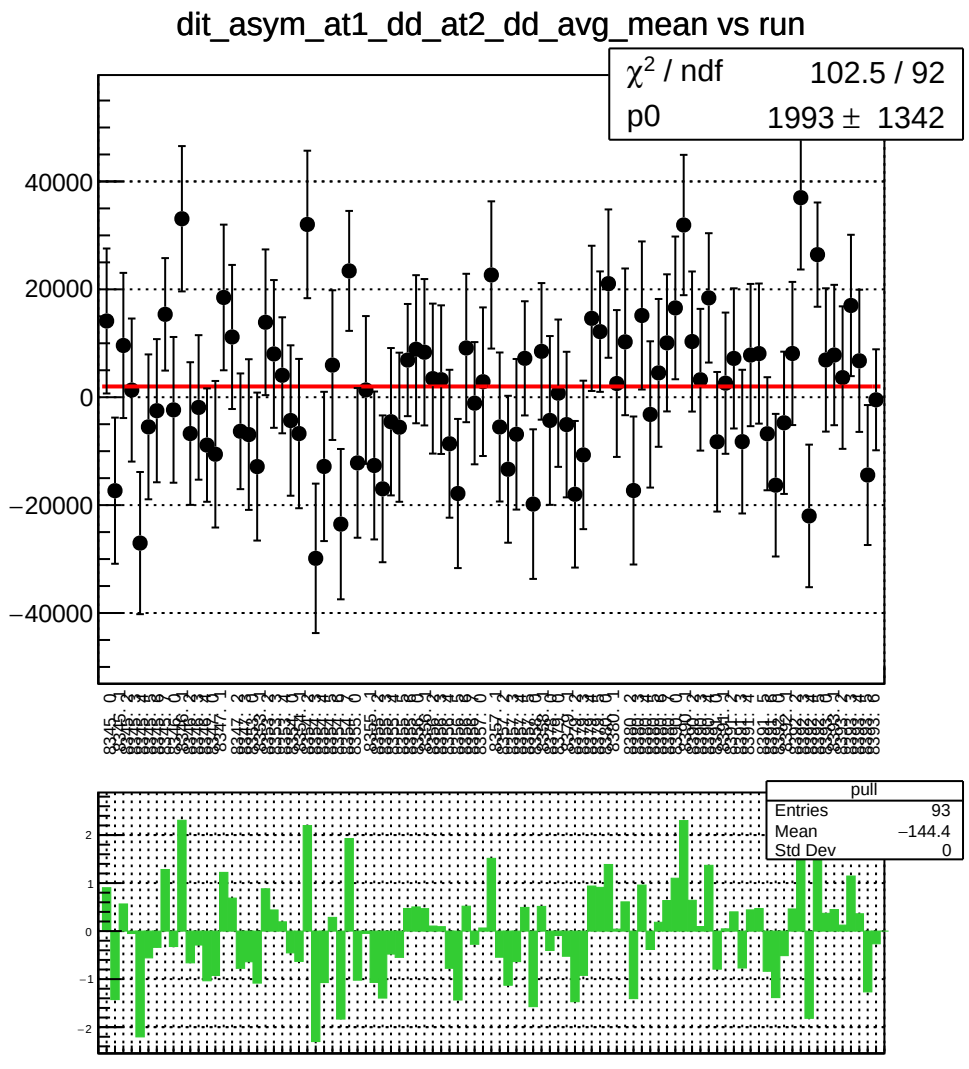

asym_at1_dd_at2_dd_avg_cor_correction_rms vs run
χ² / ndf 1.228e+04 / 92
p0 1238 ± 0.9211
1600
1500
1400
1300
1200
1100

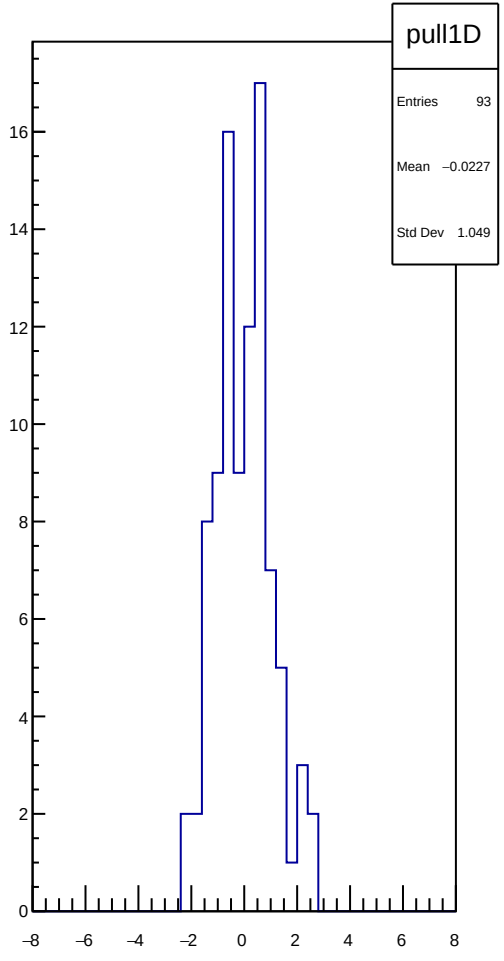

eigen_cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 103.2 / 92
p0 2030 ± 1342
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −140.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.02288
Std Dev 1.053
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

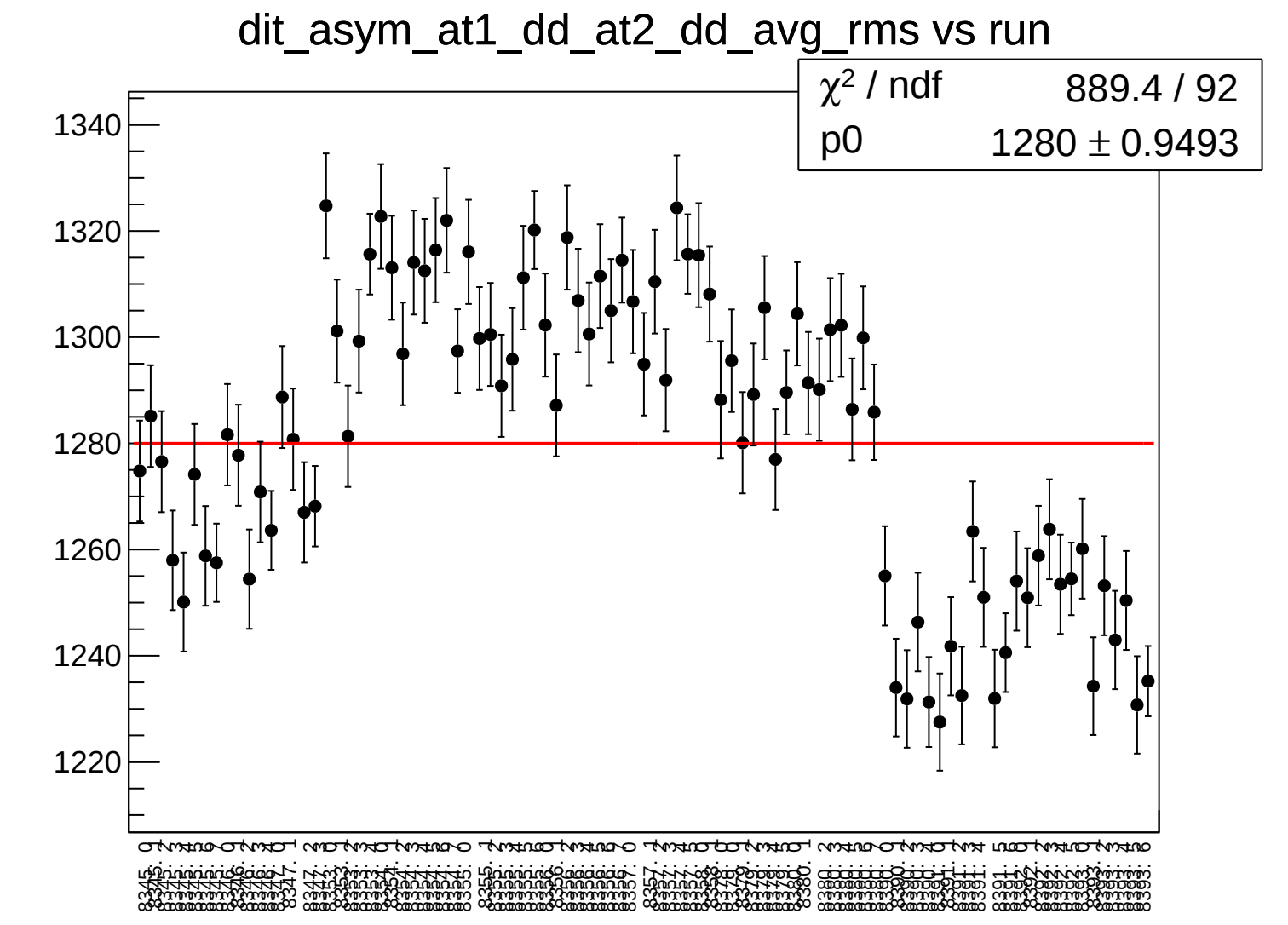

eigen_cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 889.4 / 92
p0 1280 ± 0.949
1340
1320
1300
1280
1260
1240
1220

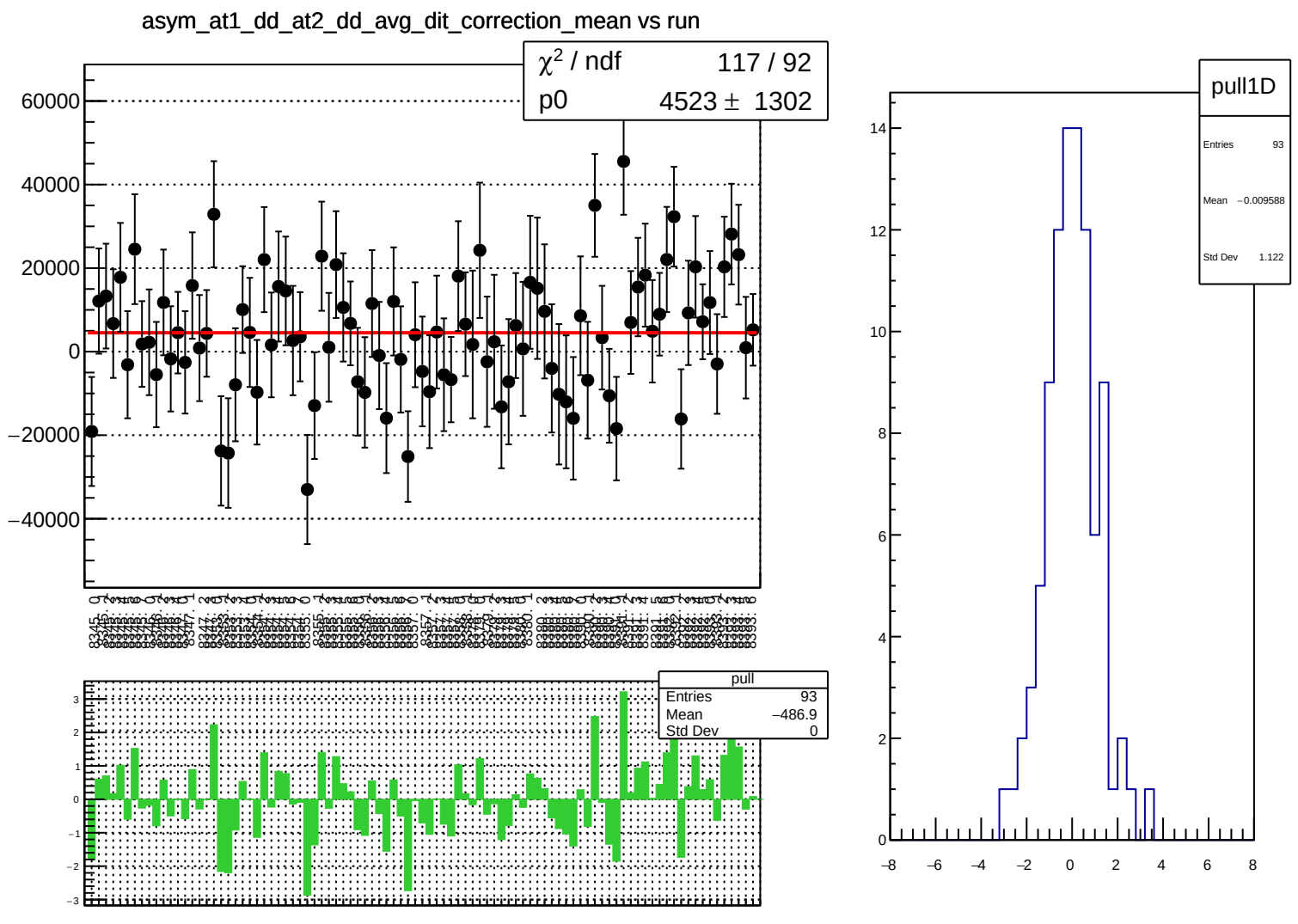

asym_at1_dd_at2_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 117.6 / 92
p0 4552 ± 1303
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −487.2
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.009504
Std Dev 1.125
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

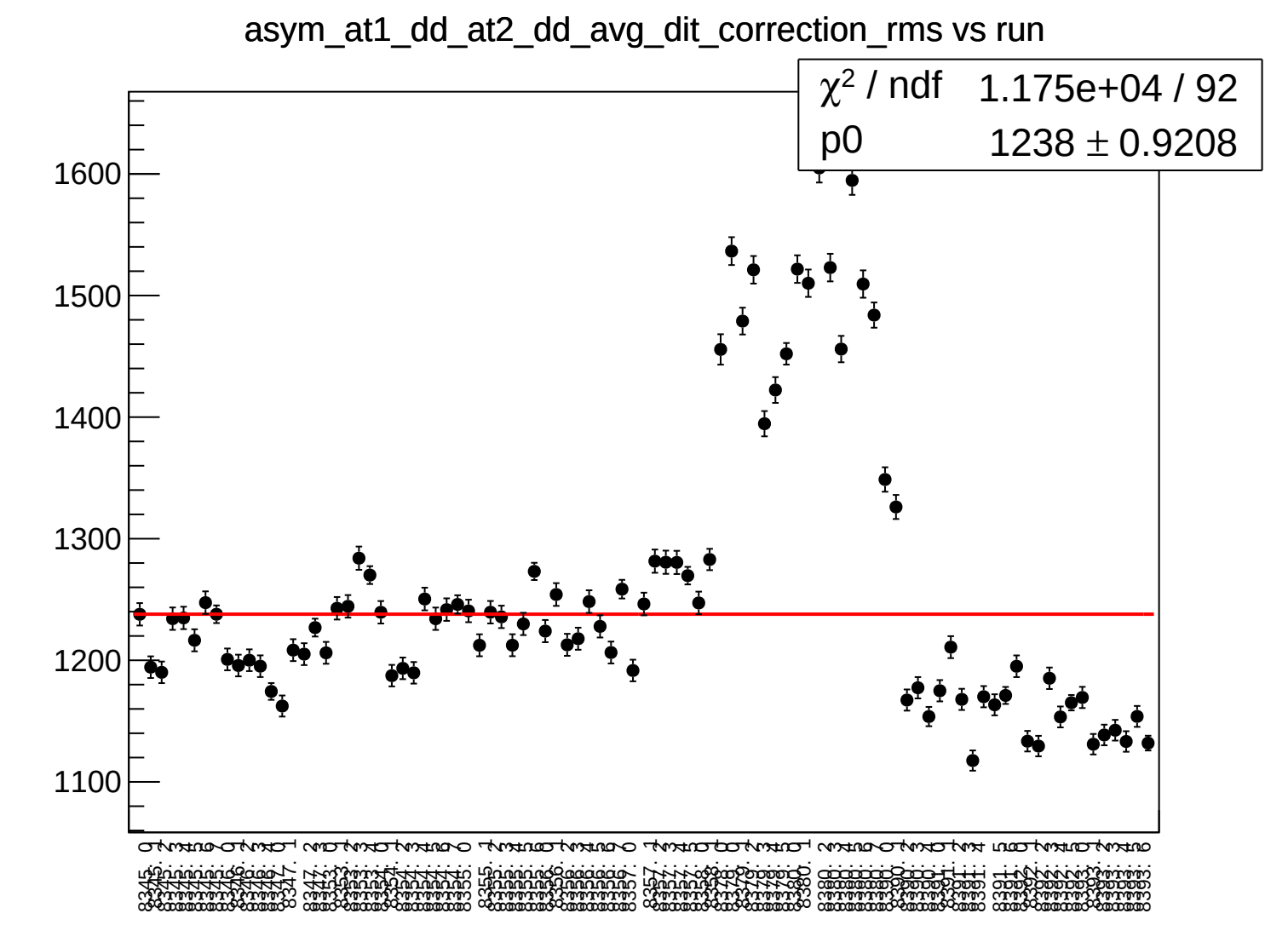

asym_at1_dd_at2_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.228e+04 / 92
p0 1238 ± 0.9211
1600
1500
1400
1300
1200
1100

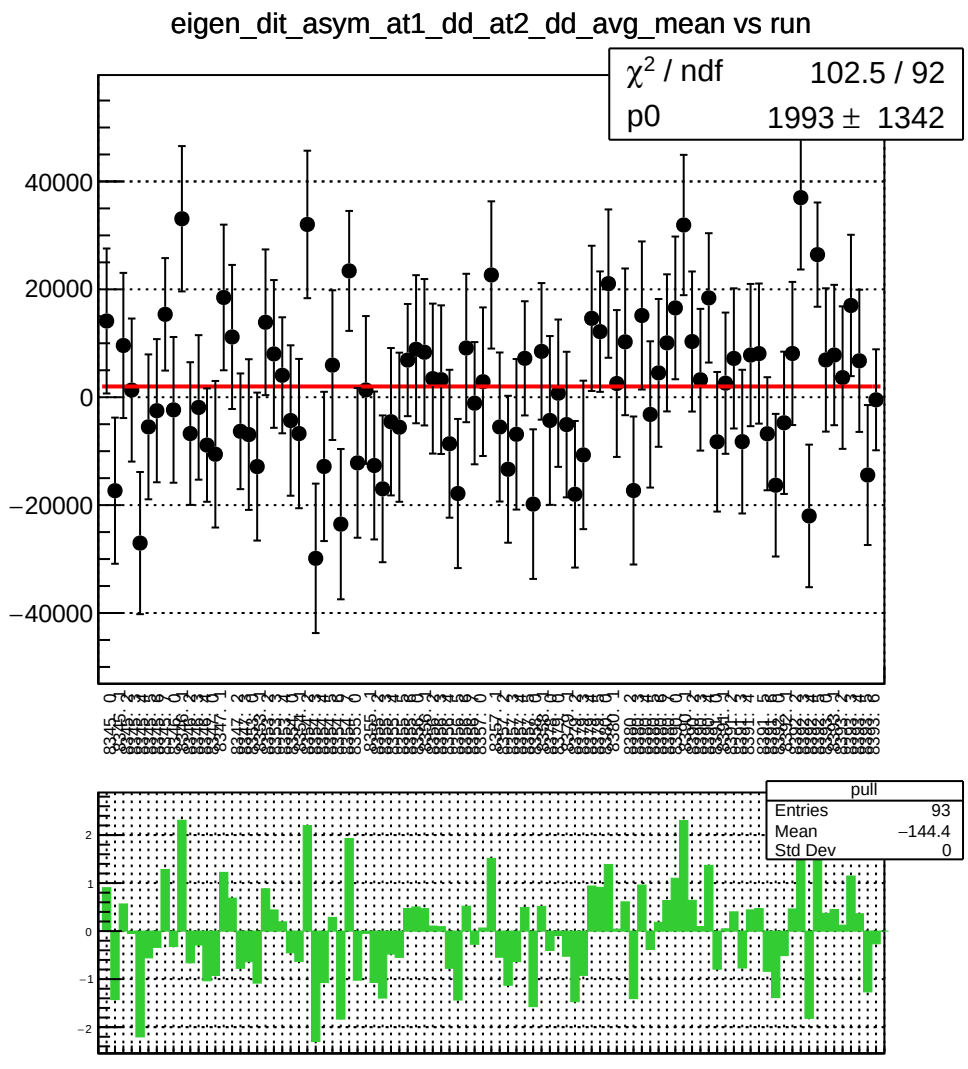

dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 102.5 / 92
p0 1993 ± 1342
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −144.4
Std Dev 0
2
1
0
−1
−2

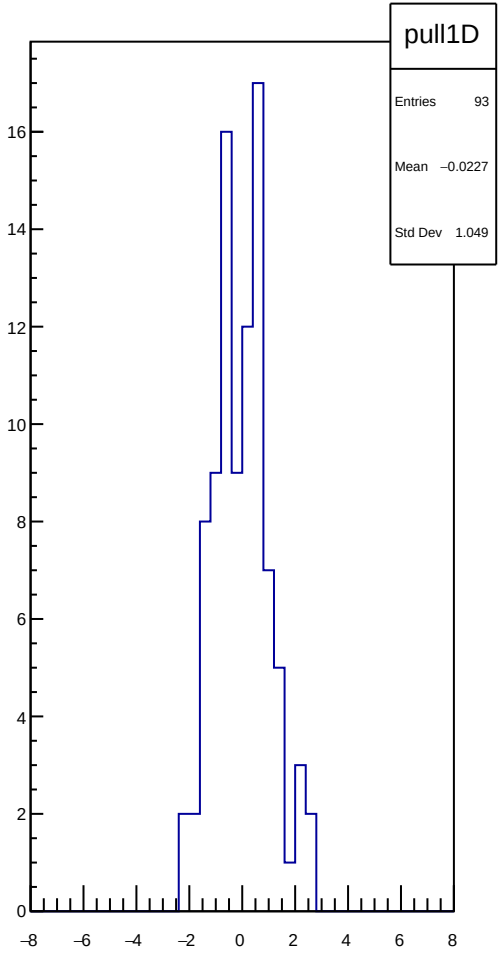

pull1D
Entries 93
Mean −0.0227
Std Dev 1.049
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

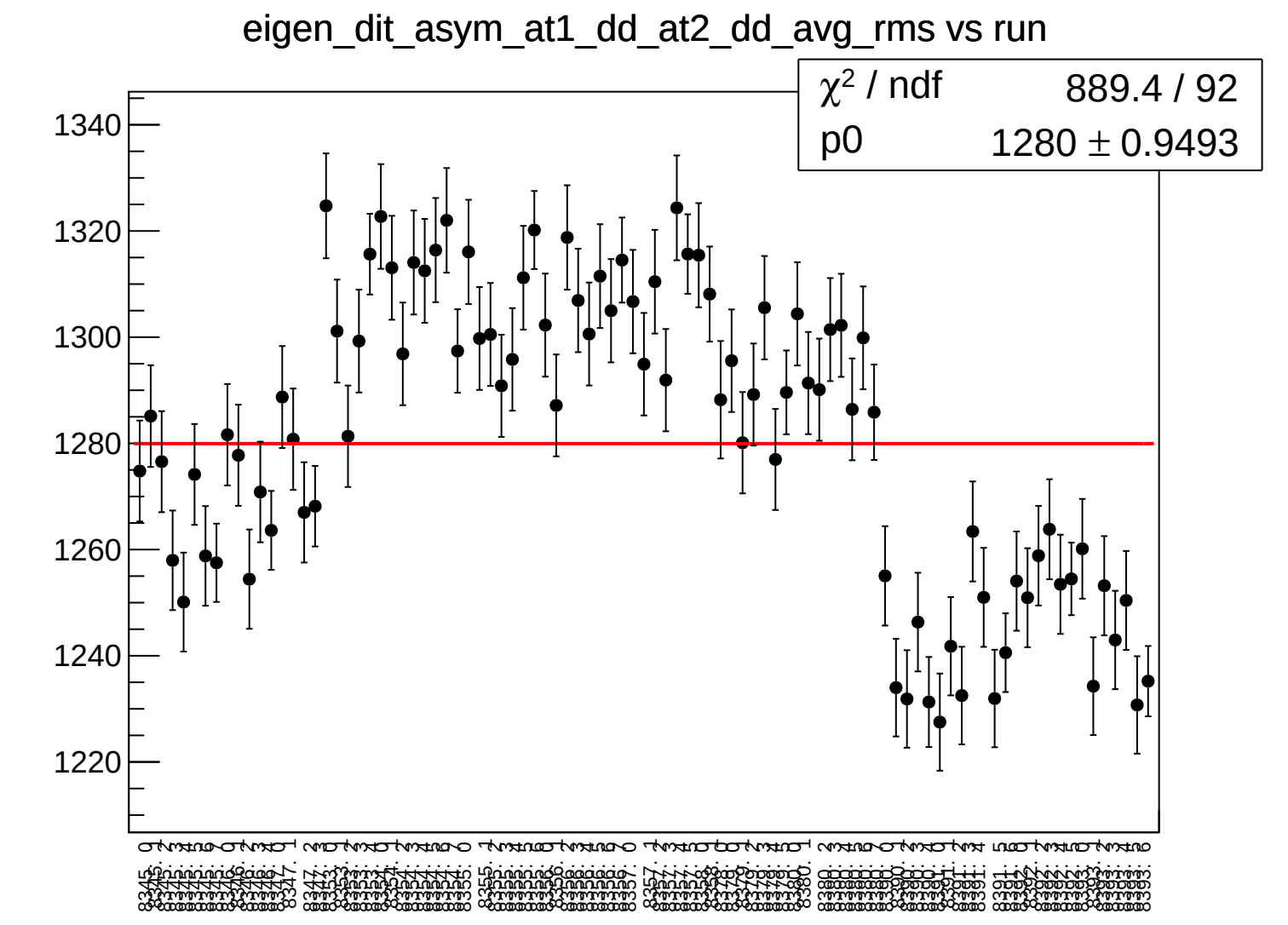

dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 889.4 / 92
p0 1280 ± 0.9493
1340
1320
1300
1280
1260
1240
1220

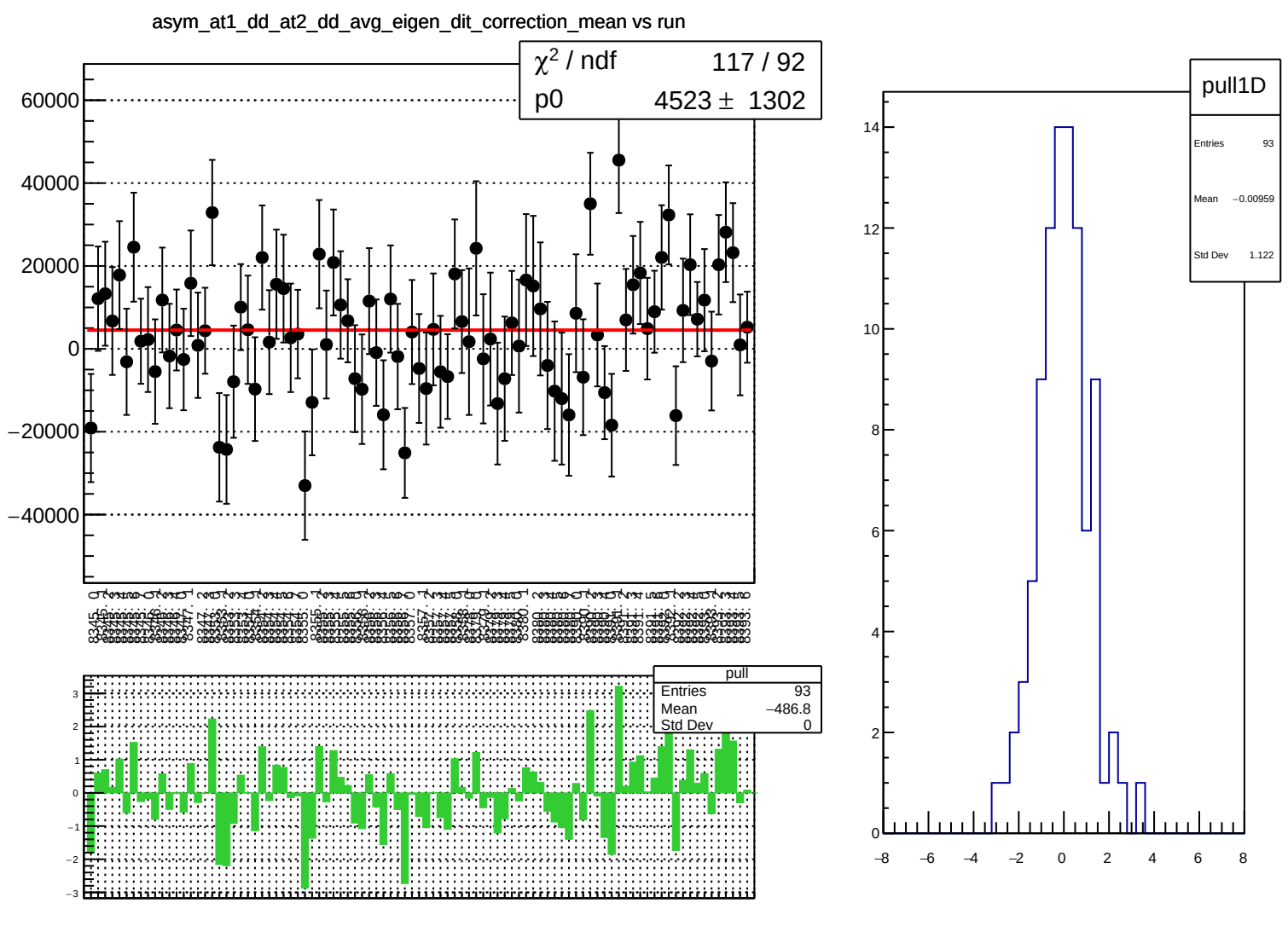

asym_at1_dd_at2_dd_avg_dit_correction_mean vs run
χ² / ndf 117 / 92
p0 4523 ± 1302
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −486.9
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.009588
Std Dev 1.122
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

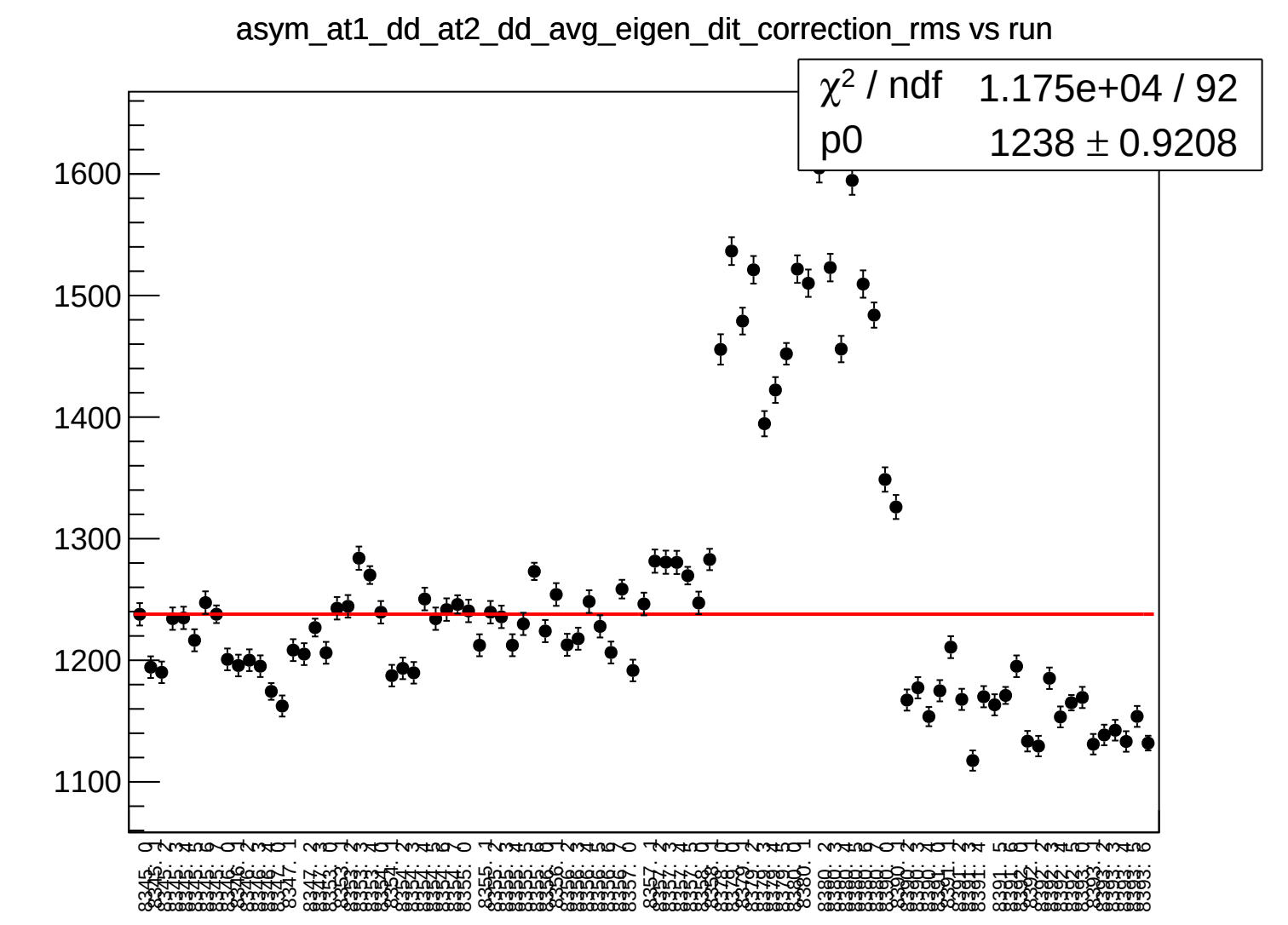

asym_at1_dd_at2_dd_avg_dit_correction_rms vs run
χ² / ndf 1.175e+04 / 92
p0 1238 ± 0.9208
1600
1500
1400
1300
1200
1100

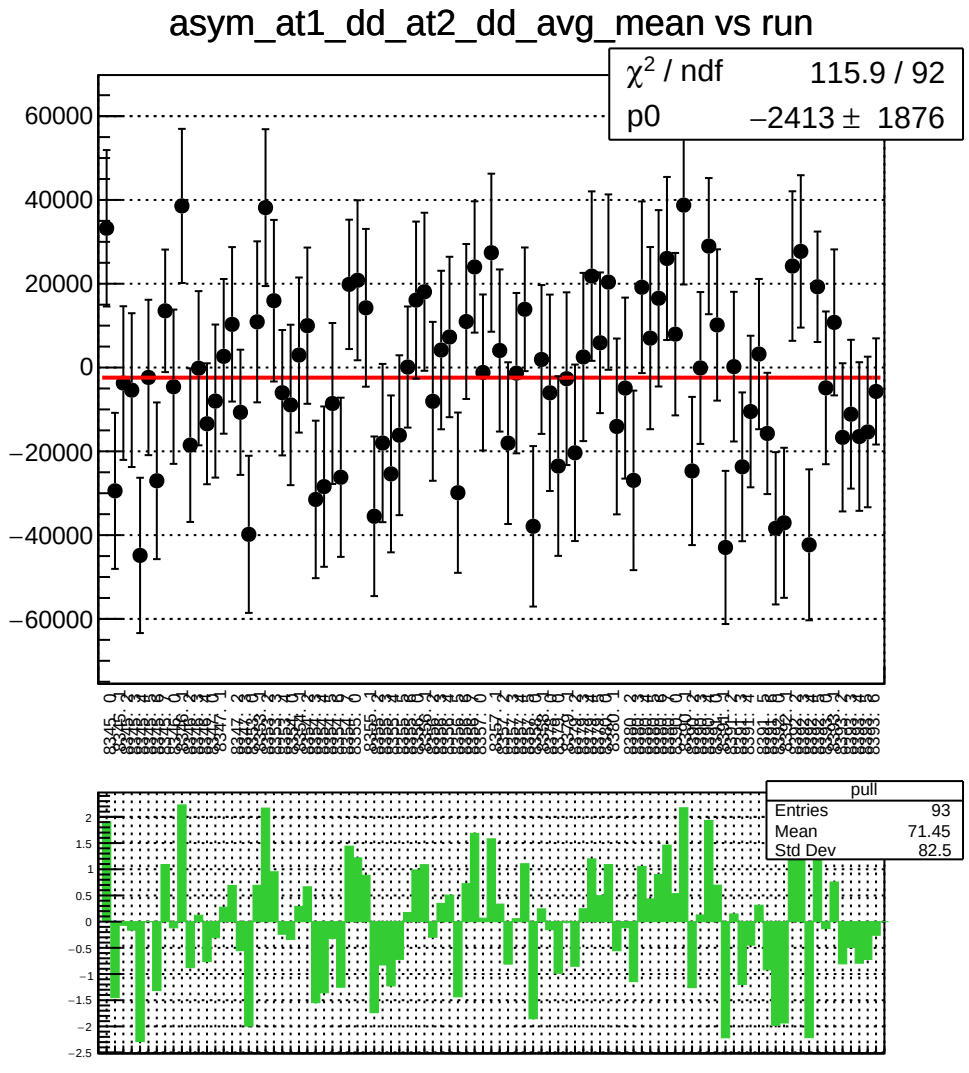

eigen_dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 102.5 / 92
p0 1993 ± 1342
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −144.4
Std Dev 0
2
1
0
−1
−2

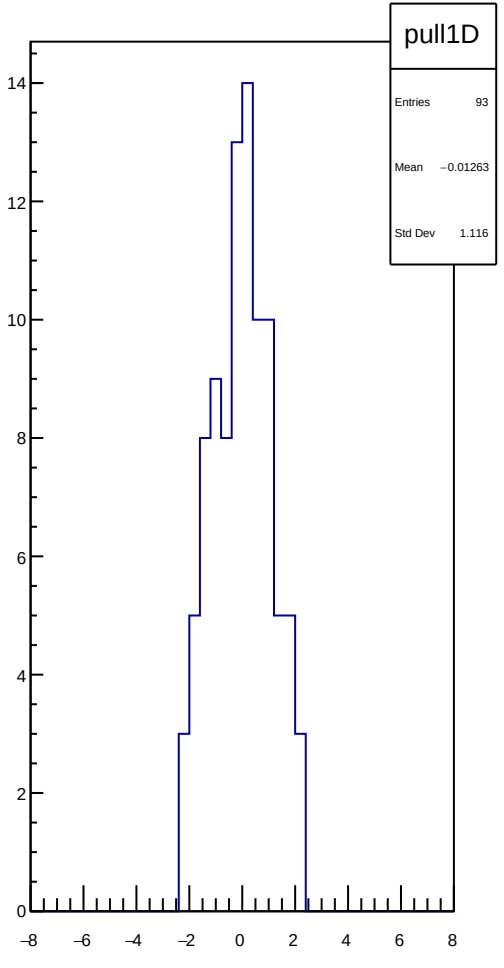

pull1D
Entries 93
Mean −0.0227
Std Dev 1.049
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

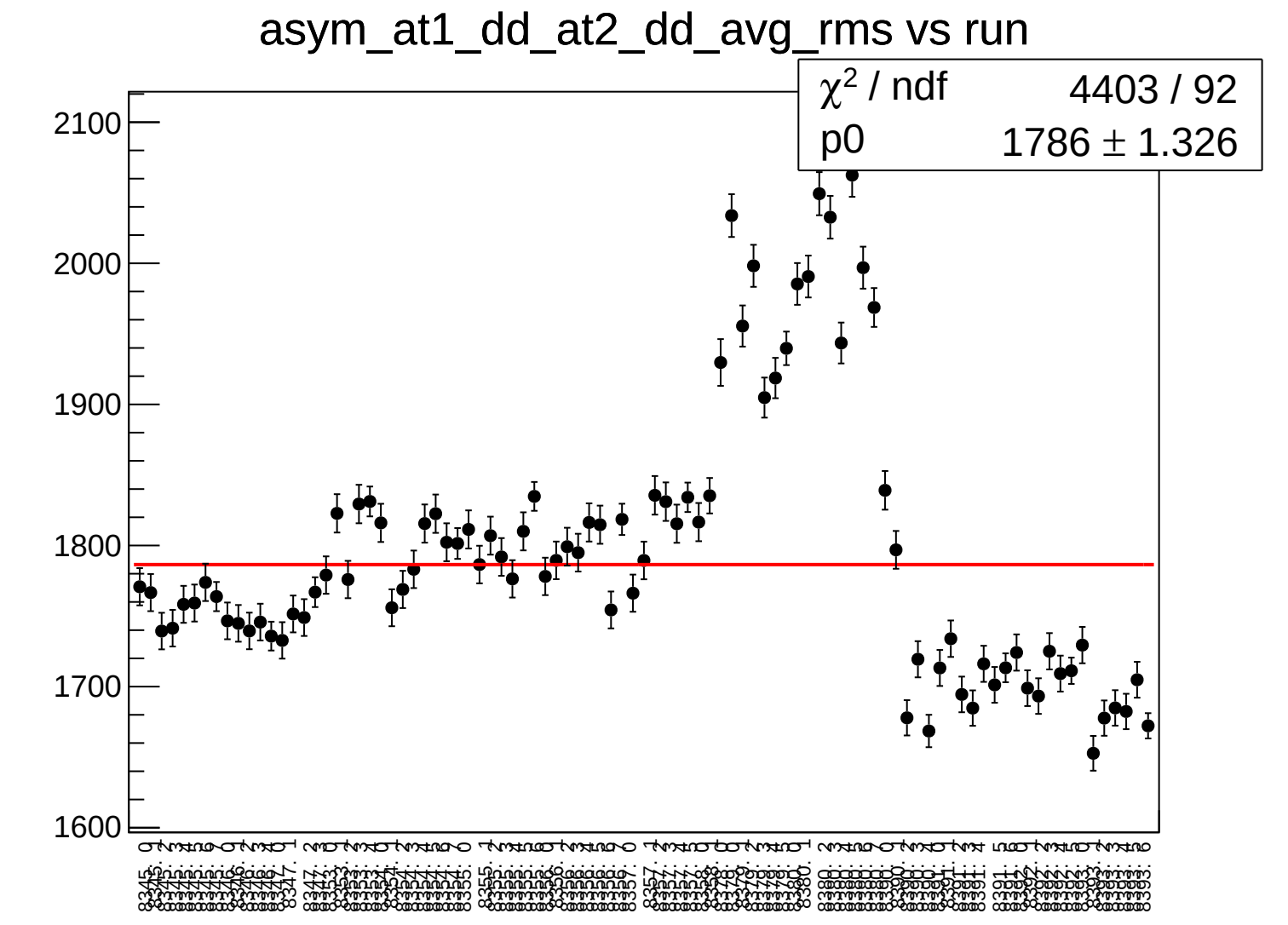

eigen_dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 889.4 / 92
p0 1280 ± 0.9493
1340
1320
1300
1280
1260
1240
1220

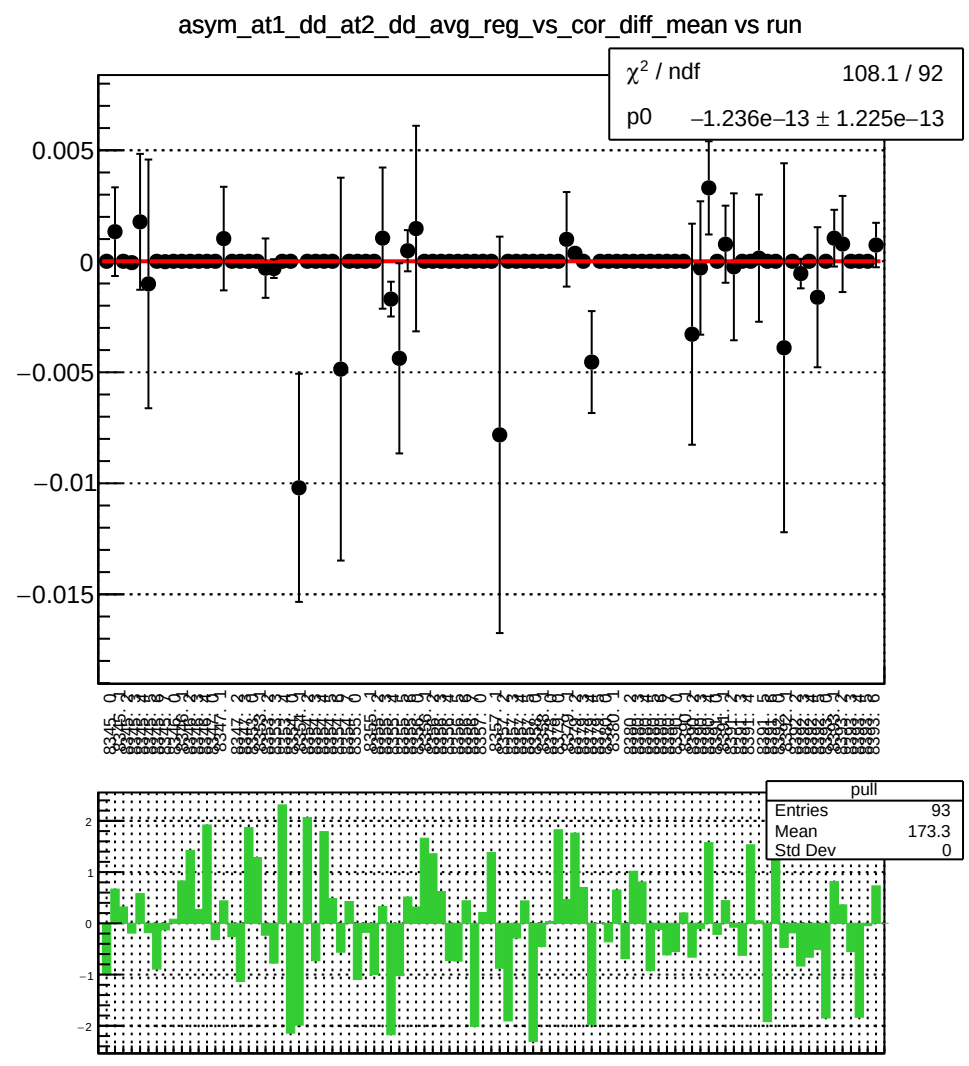

asym_at1_dd_at2_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 117 / 92
p0 4523 ± 1302
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −486.8
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.00959
Std Dev 1.122
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

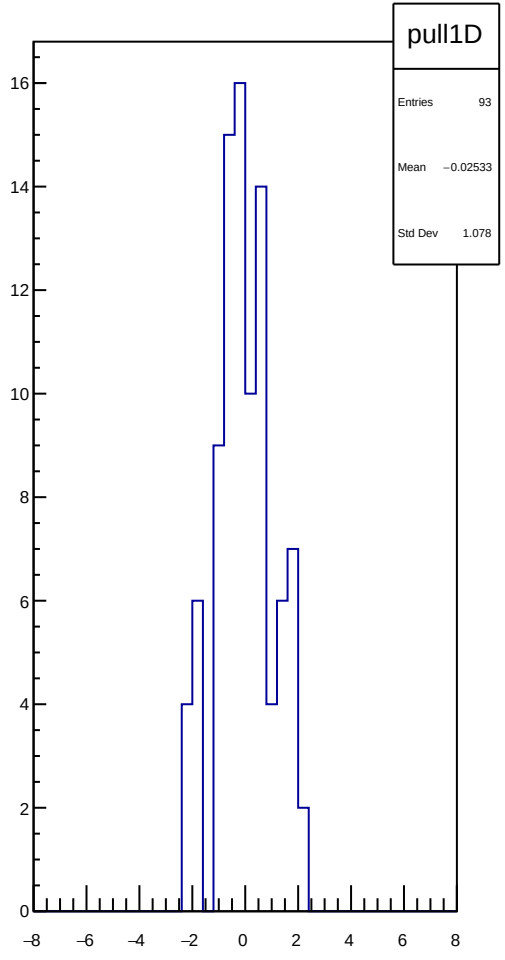

asym_at1_dd_at2_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.175e+04 / 92
p0 1238 ± 0.9208
1600
1500
1400
1300
1200
1100

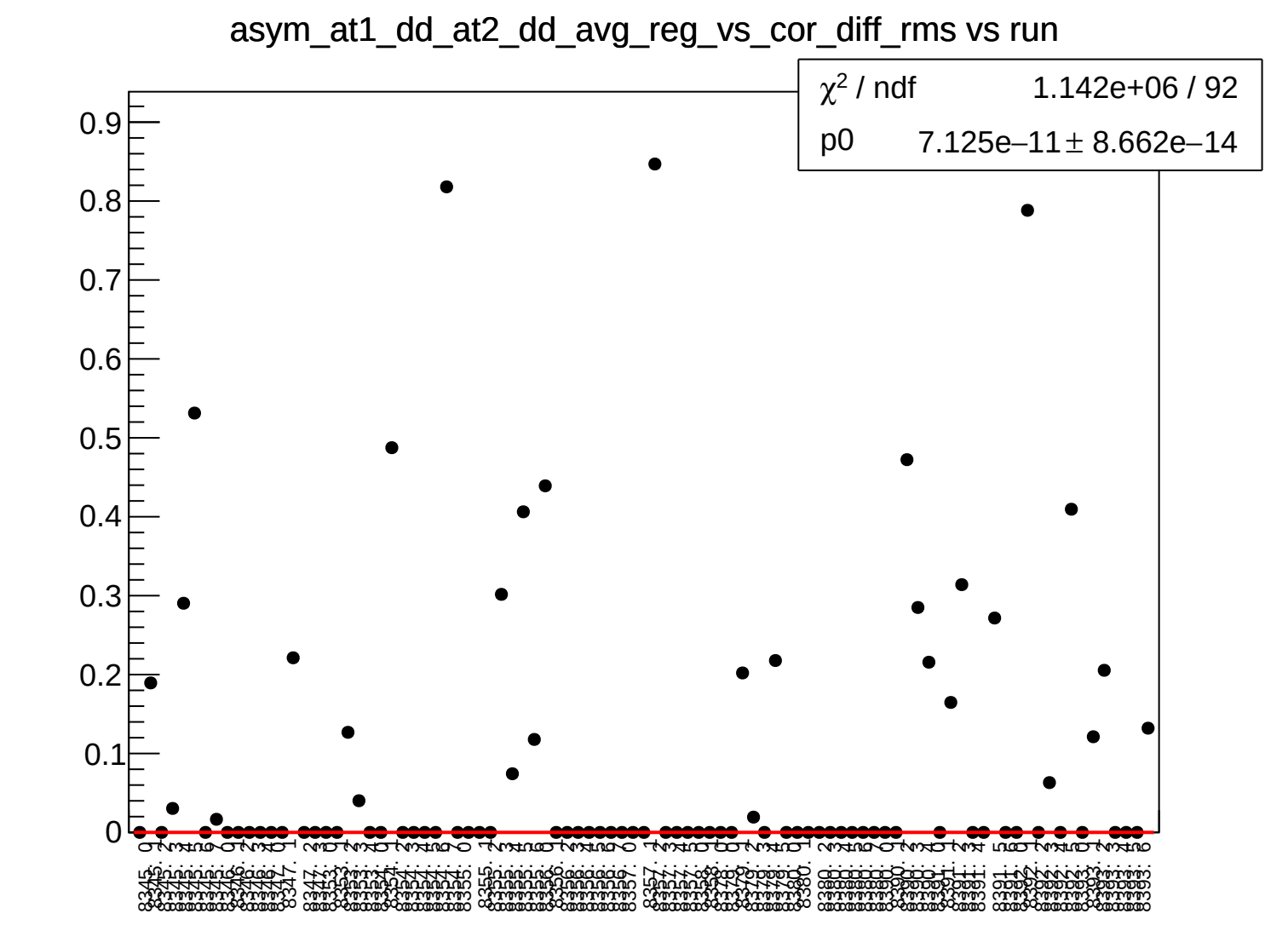

asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 115.9 / 92
p0 −2413 ± 1876
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 71.45
Std Dev 82.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

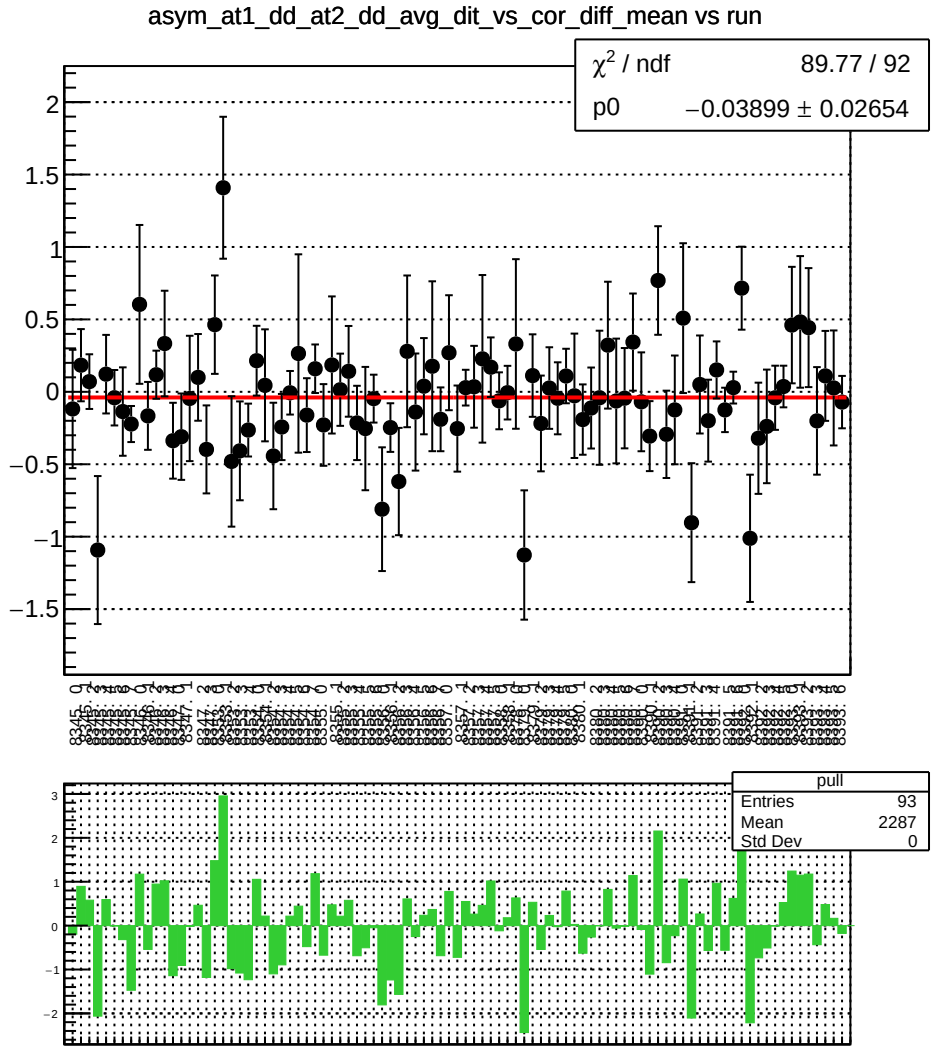

pull1D
Entries 93
Mean −0.01263
Std Dev 1.116
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

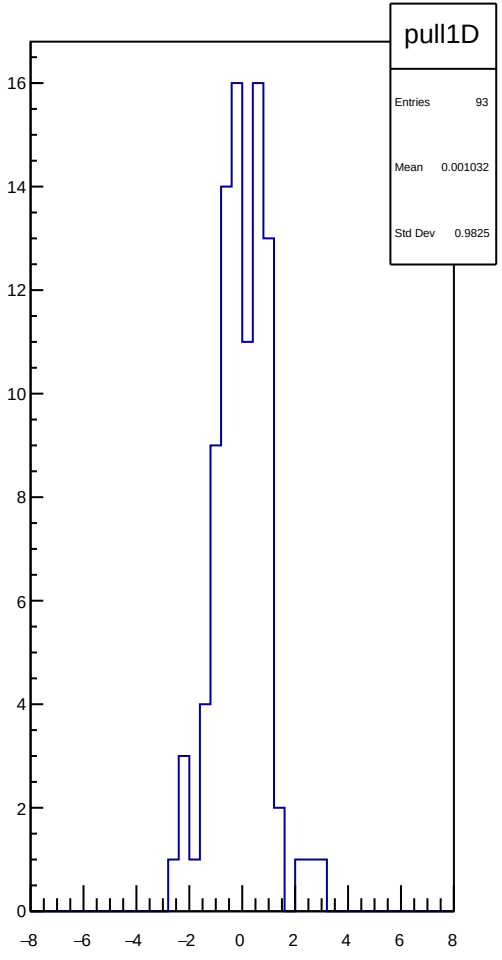

asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 4403 / 92
p0 1786 ± 1.326
2100
2000
1900
1800
1700
1600

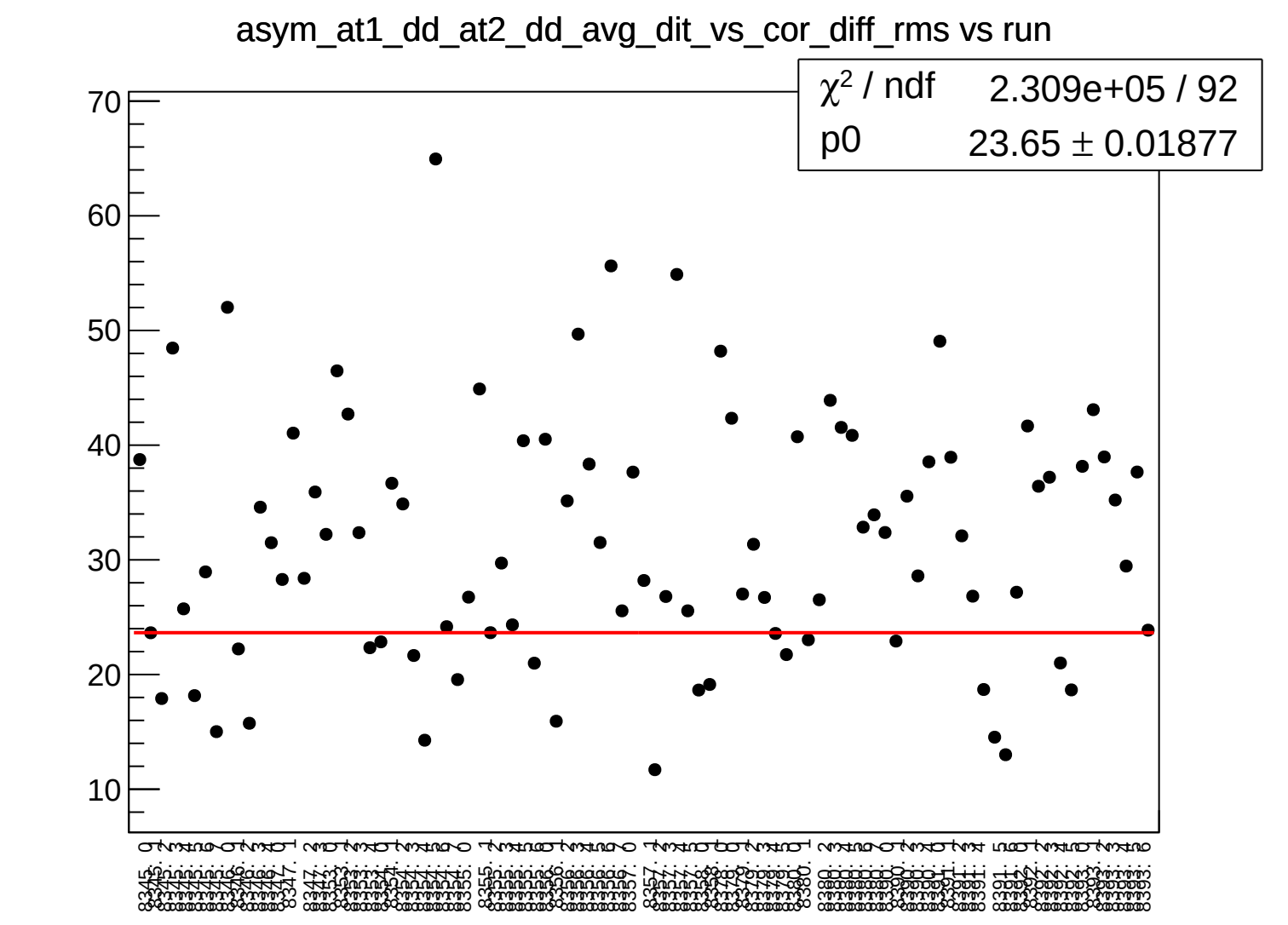

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 108.1 / 92
p0 −1.236e−13 ± 1.225e−13
0.005
0
−0.005
−0.01
−0.015
pull
Entries 93
Mean 173.3
Std Dev 0
2
1
0
−1
−2

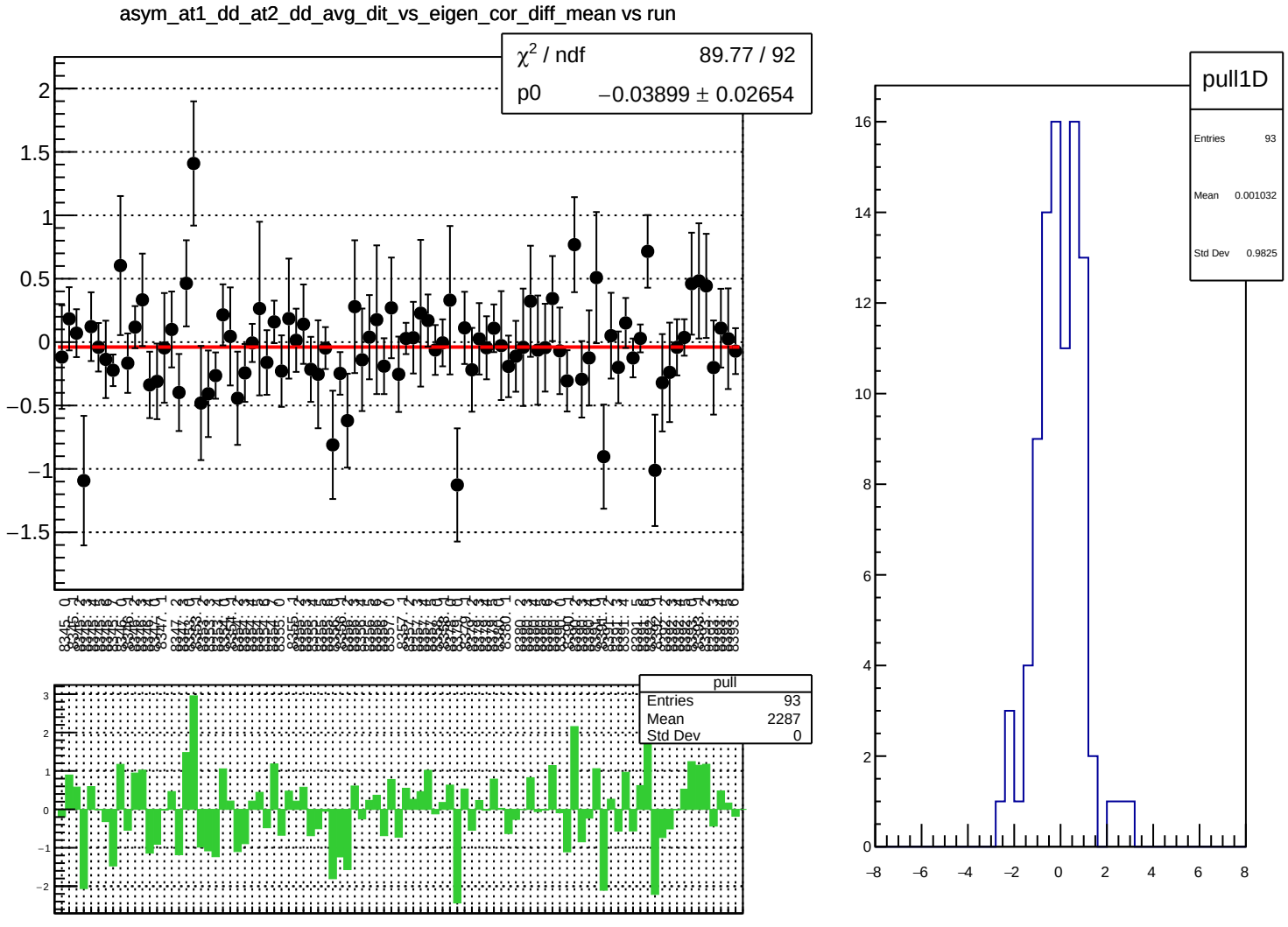

pull1D
Entries 93
Mean −0.02533
Std Dev 1.078
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

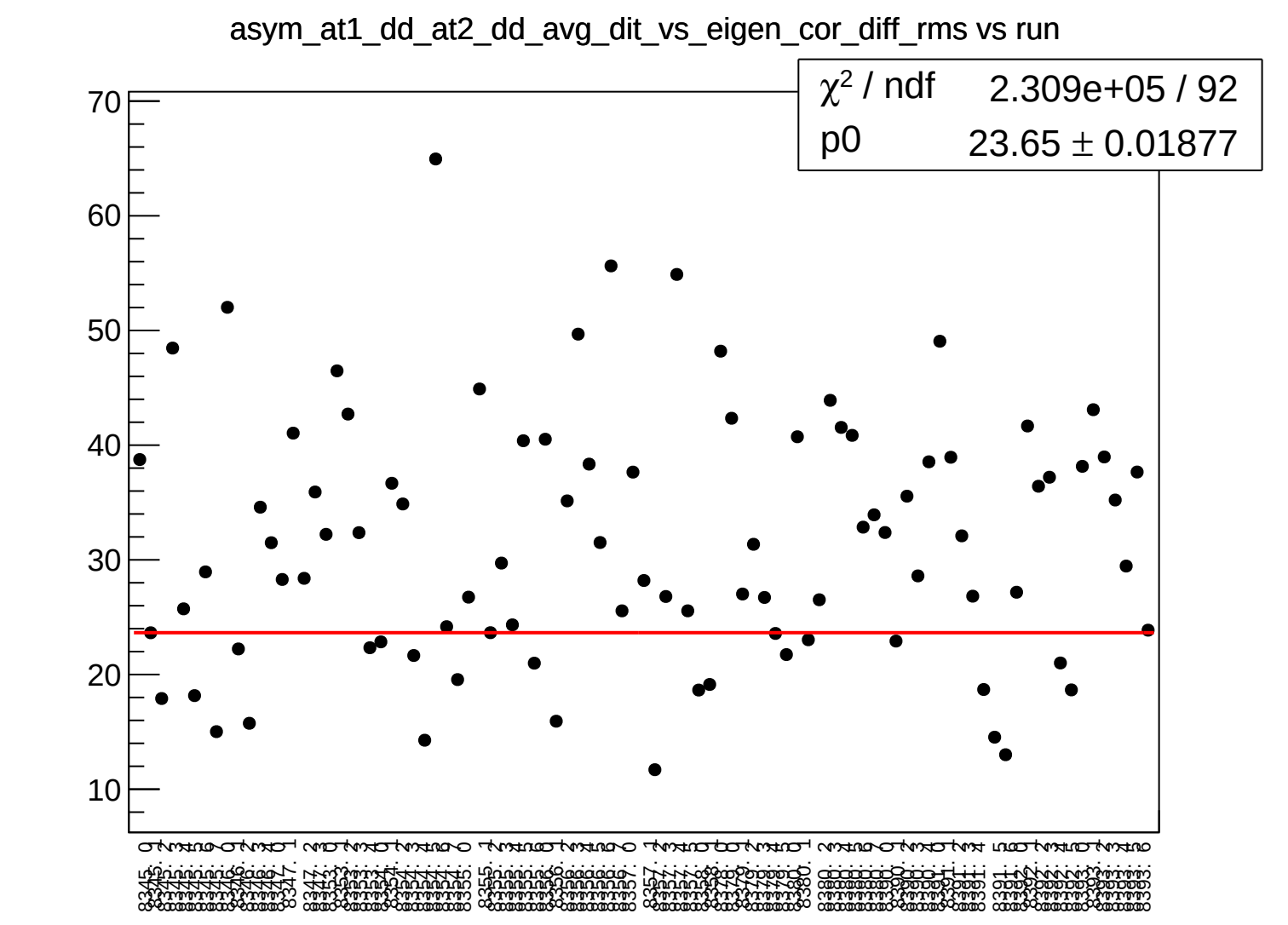

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.142e+06 / 92
p0 7.125e−11 ± 8.662e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

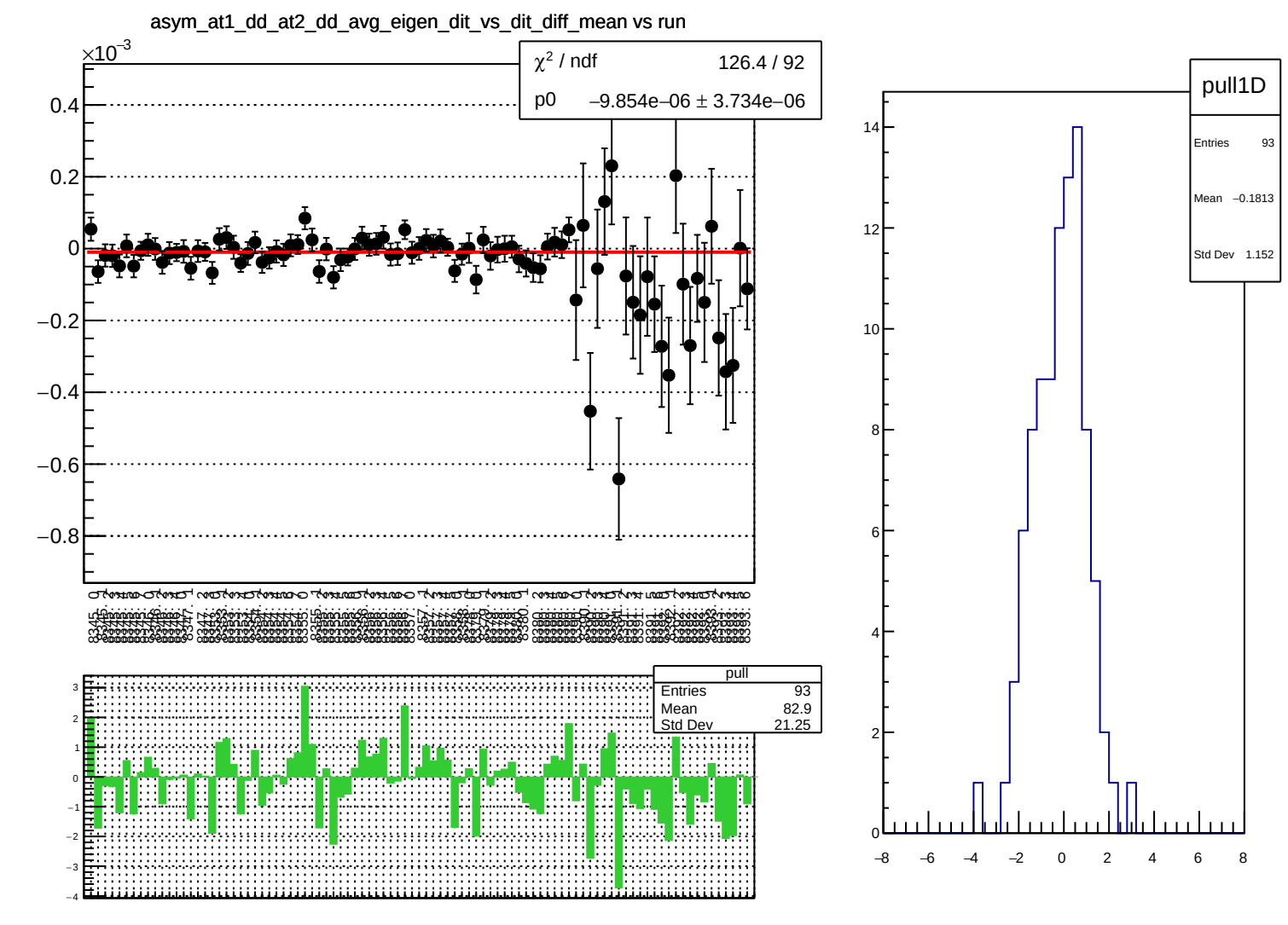

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 89.77 / 92
p0 −0.03899 ± 0.02654
pull
Entries 93
Mean 2287
Std Dev 0

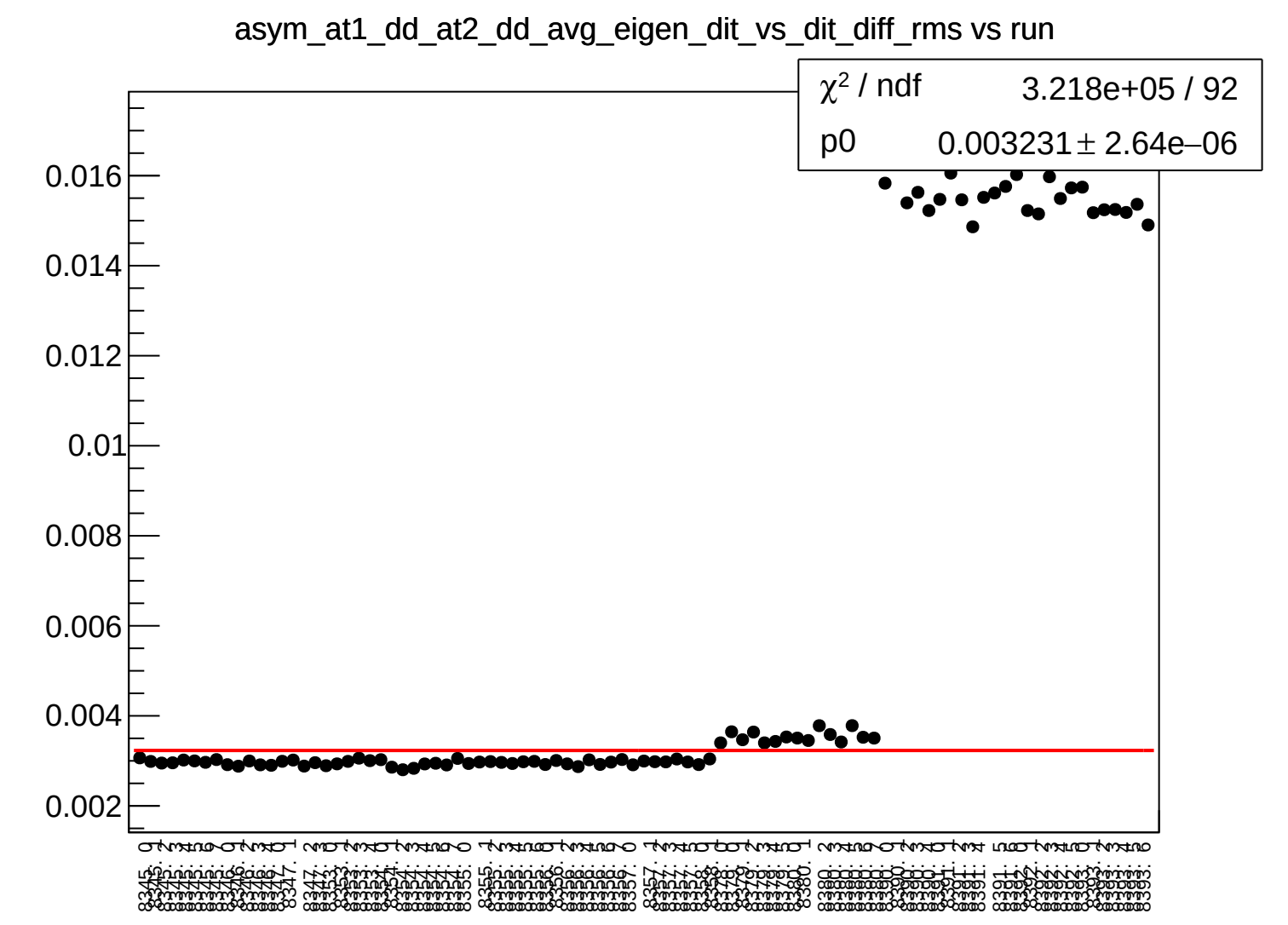

pull1D
Entries 93
Mean 0.001032
Std Dev 0.9825

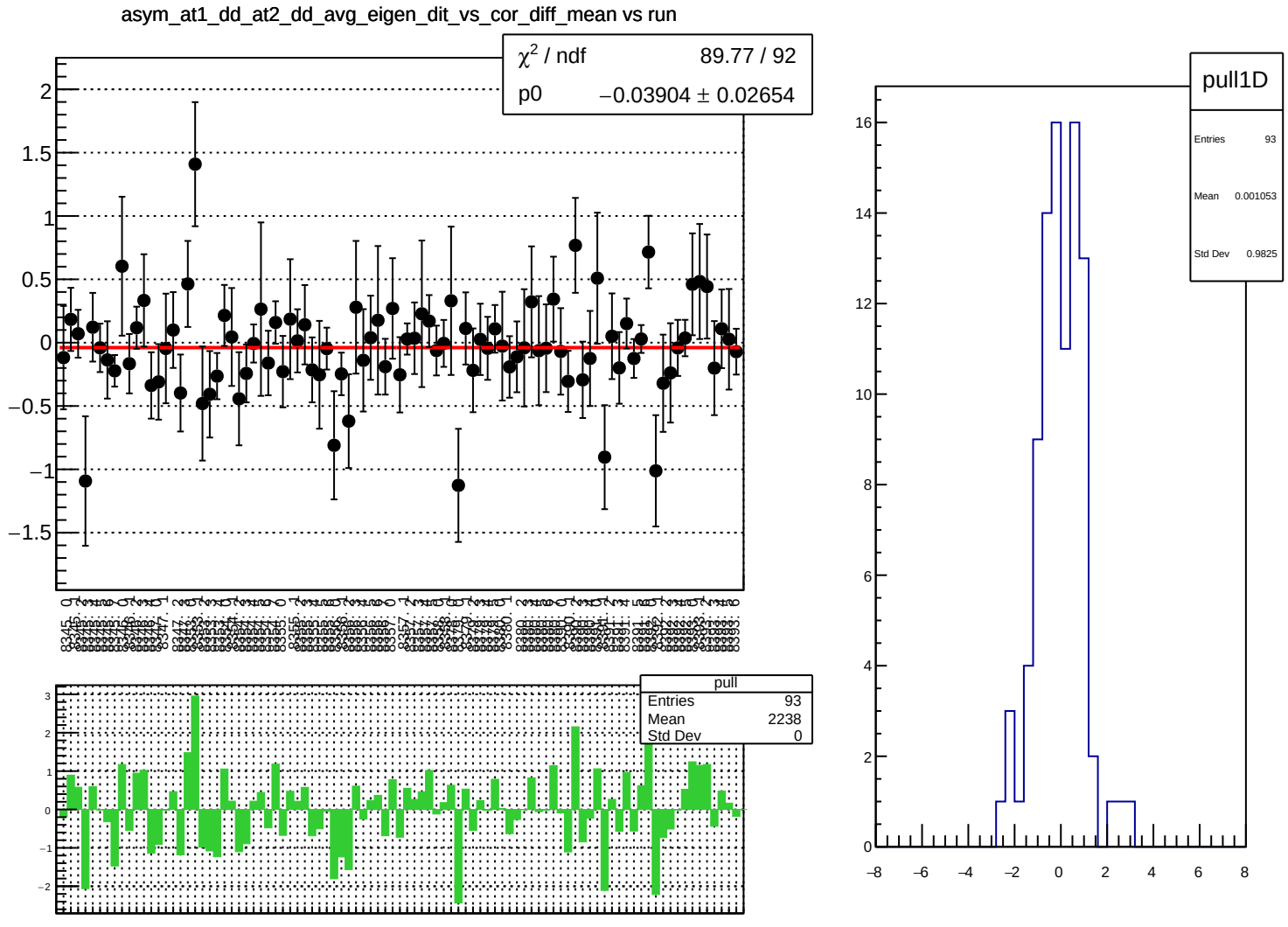

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.309e+05 / 92
p0 23.65 ± 0.01877
70
60
50
40
30
20
10

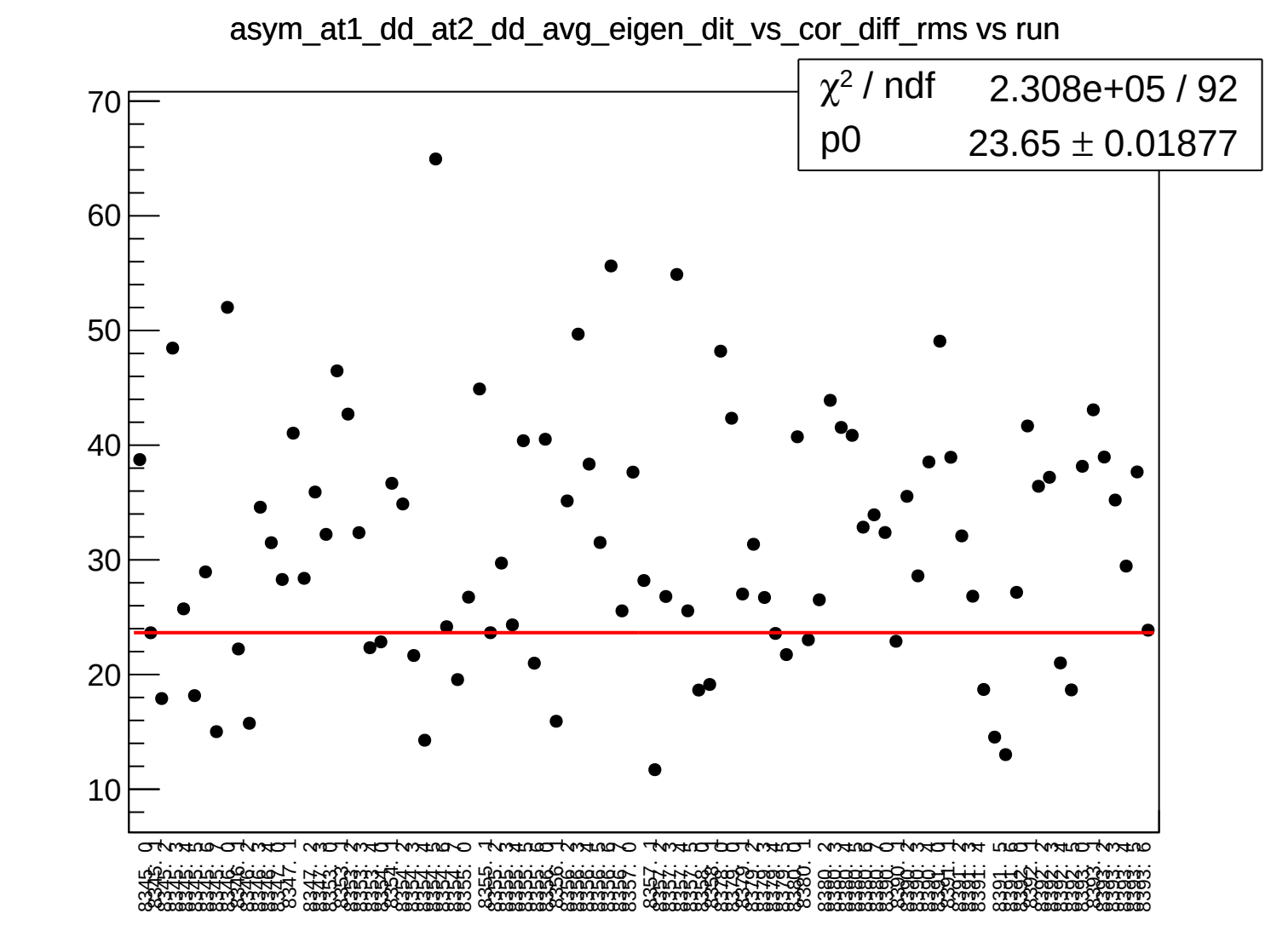

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.77 / 92
p0 −0.03899 ± 0.02654
pull
Entries 93
Mean 2287
Std Dev 0
pull1D
Entries 93
Mean 0.001032
Std Dev 0.9825

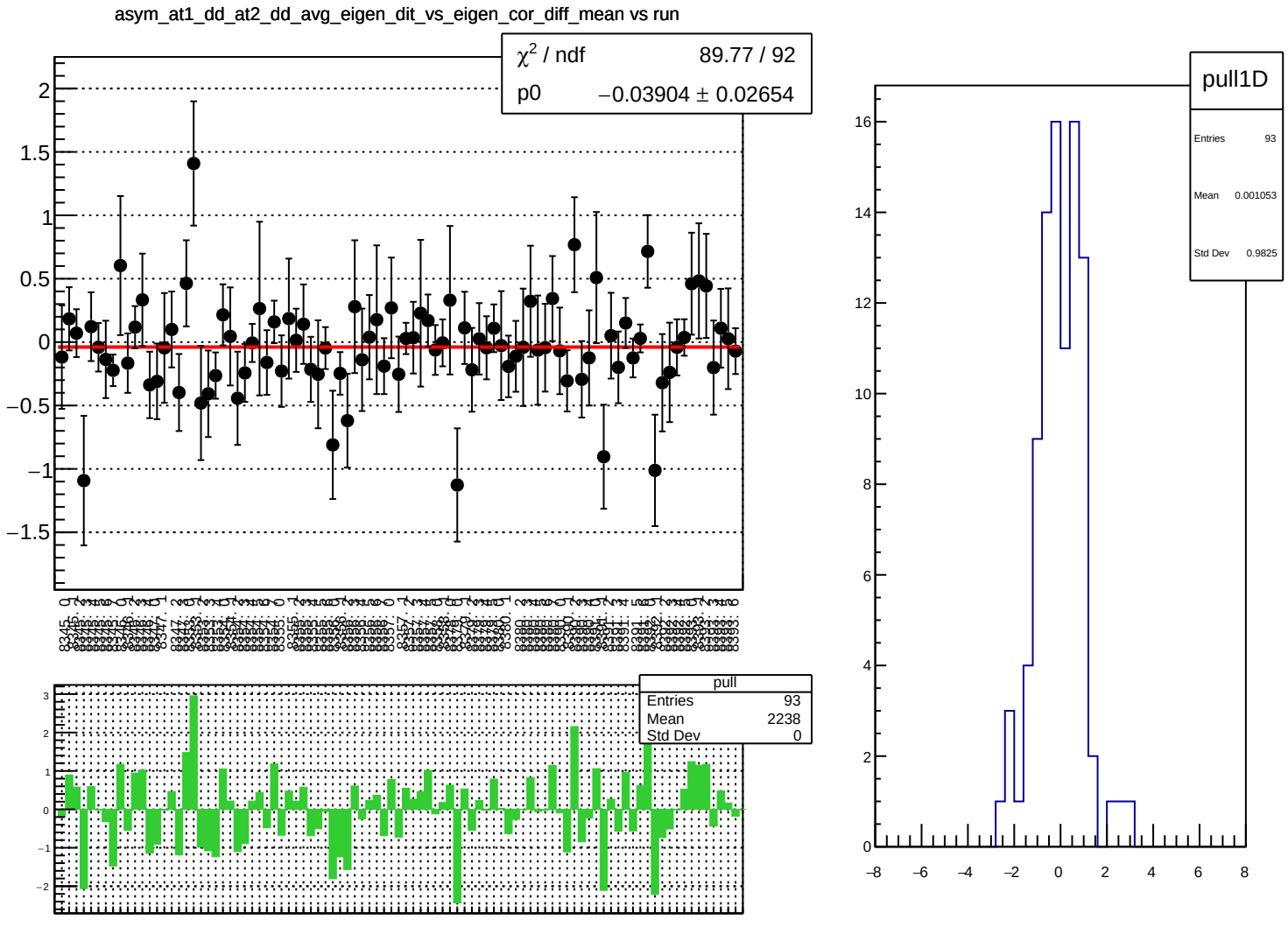

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.309e+05 / 92
p0 23.65 ± 0.01877
70
60
50
40
30
20
10

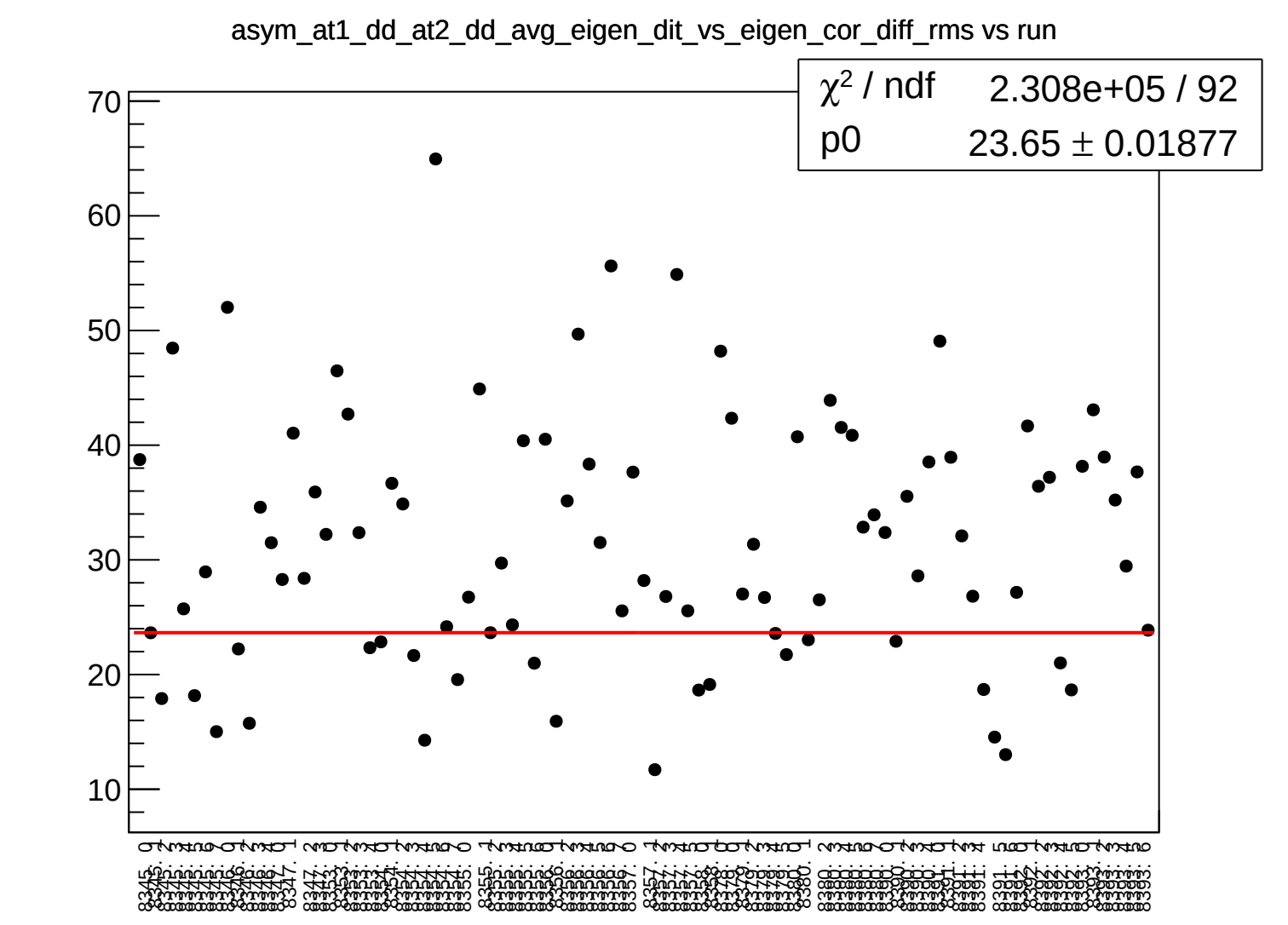

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 126.4 / 92
p0 −9.854e−06 ± 3.734e−06
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull
Entries 93
Mean 82.9
Std Dev 21.25
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 93
Mean −0.1813
Std Dev 1.152
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

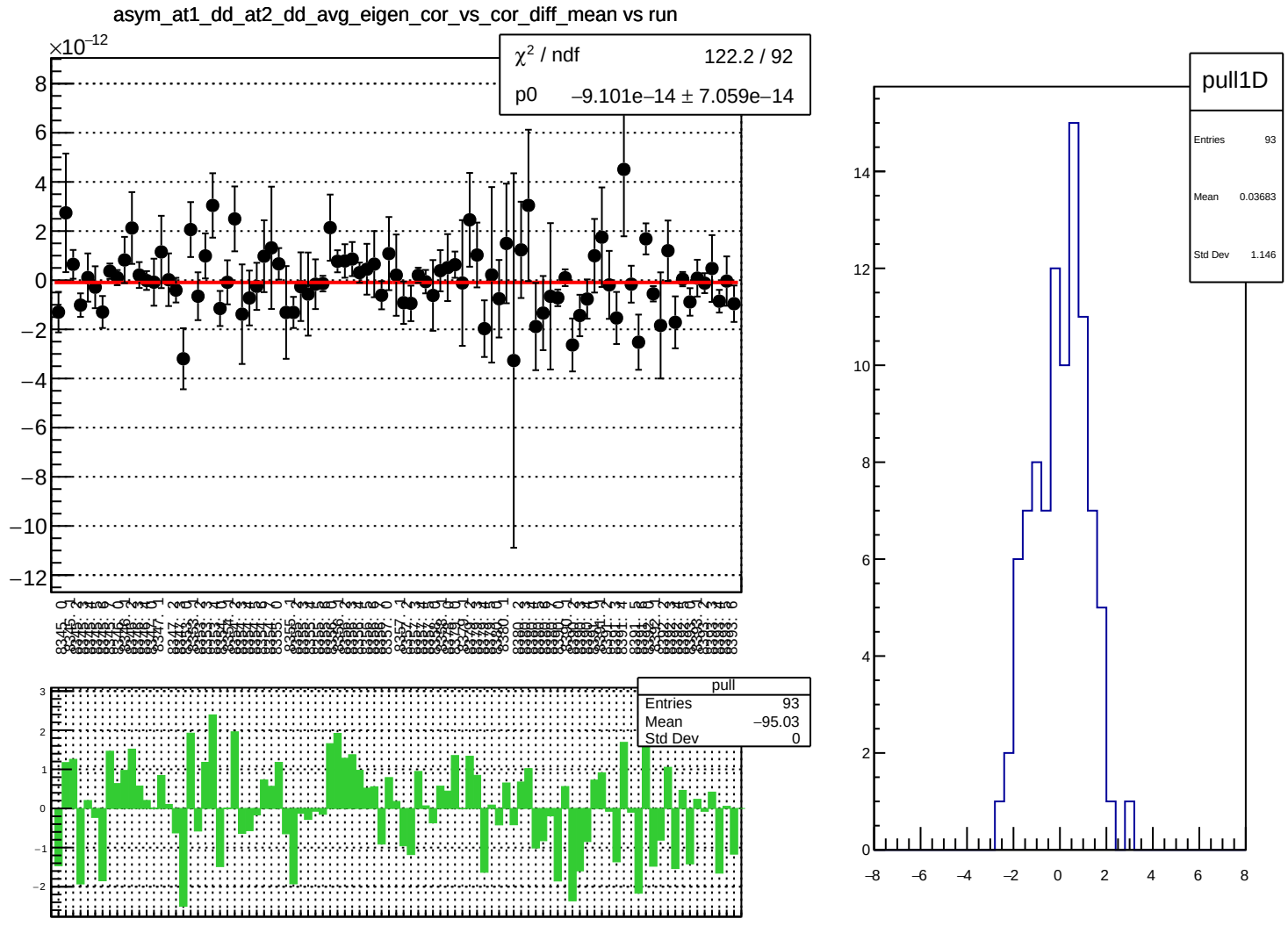

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.218e+05 / 92
p0 0.003231 ± 2.64e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

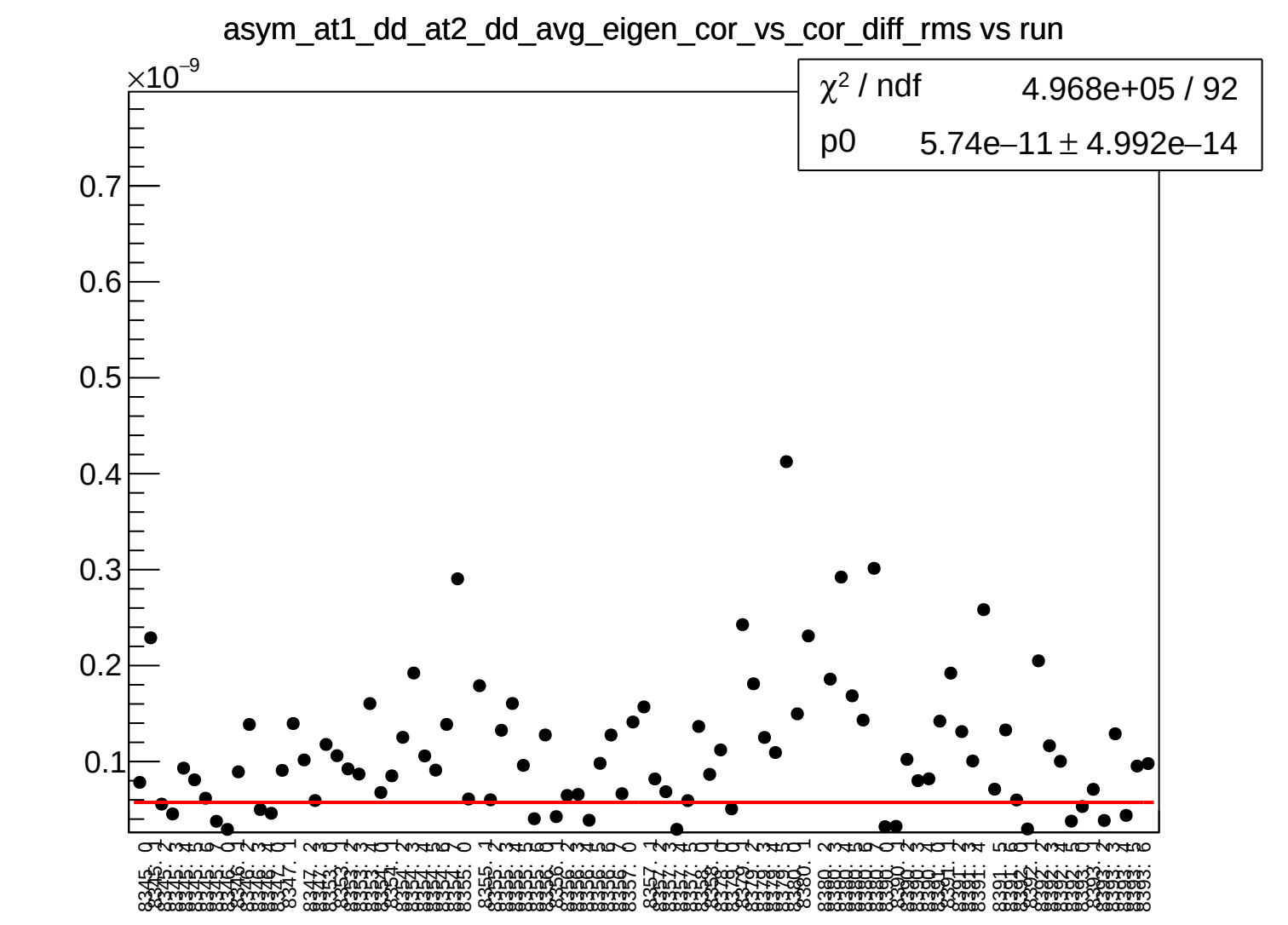

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.77 / 92
p0 −0.03904 ± 0.02654
pull
Entries 93
Mean 2238
Std Dev 0
pull1D
Entries 93
Mean 0.001053
Std Dev 0.9825

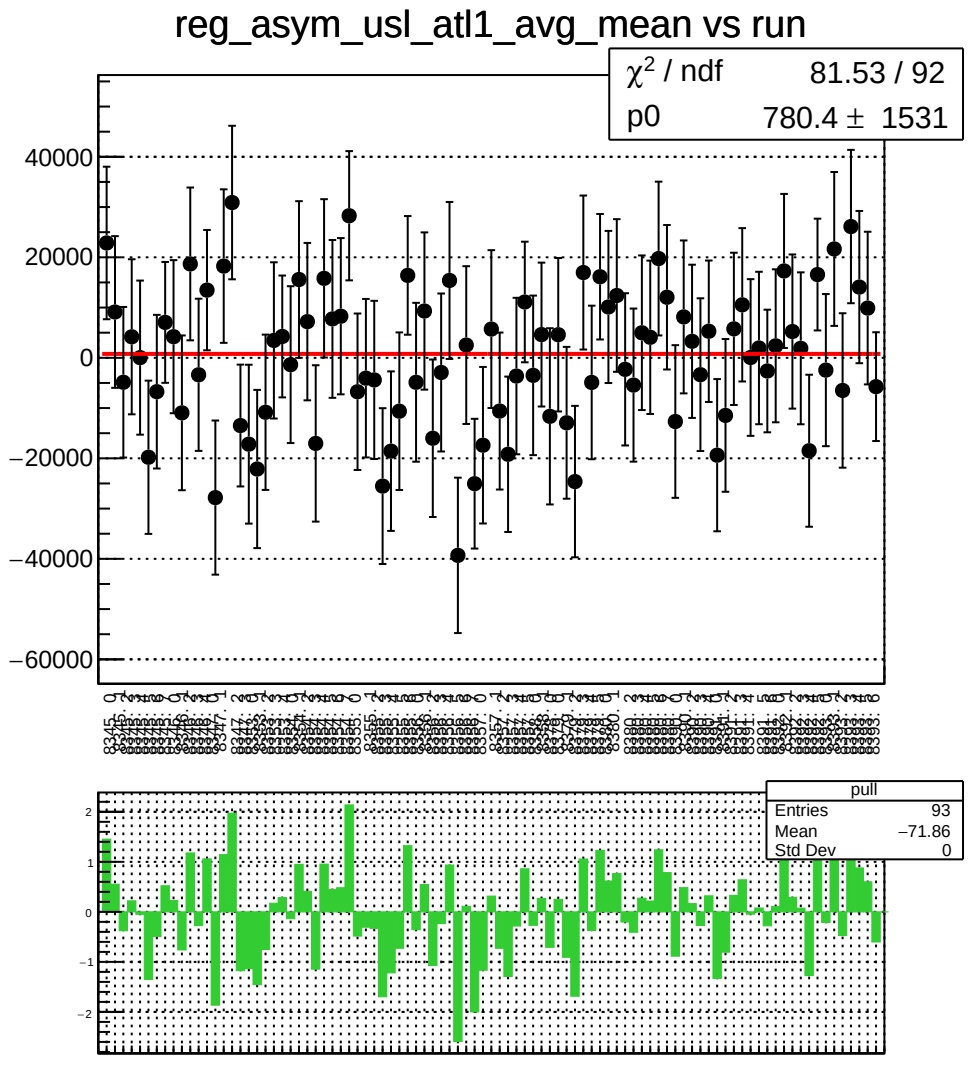

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.308e+05 / 92
p0 23.65 ± 0.01877
70
60
50
40
30
20
10

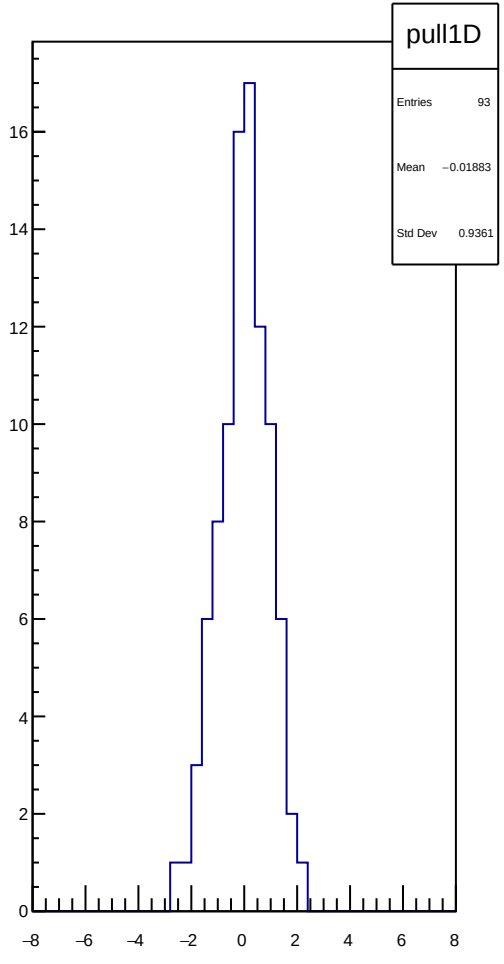

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.77 / 92
p0 −0.03904 ± 0.02654
pull
Entries 93
Mean 2238
Std Dev 0
pull1D
Entries 93
Mean 0.001053
Std Dev 0.9825

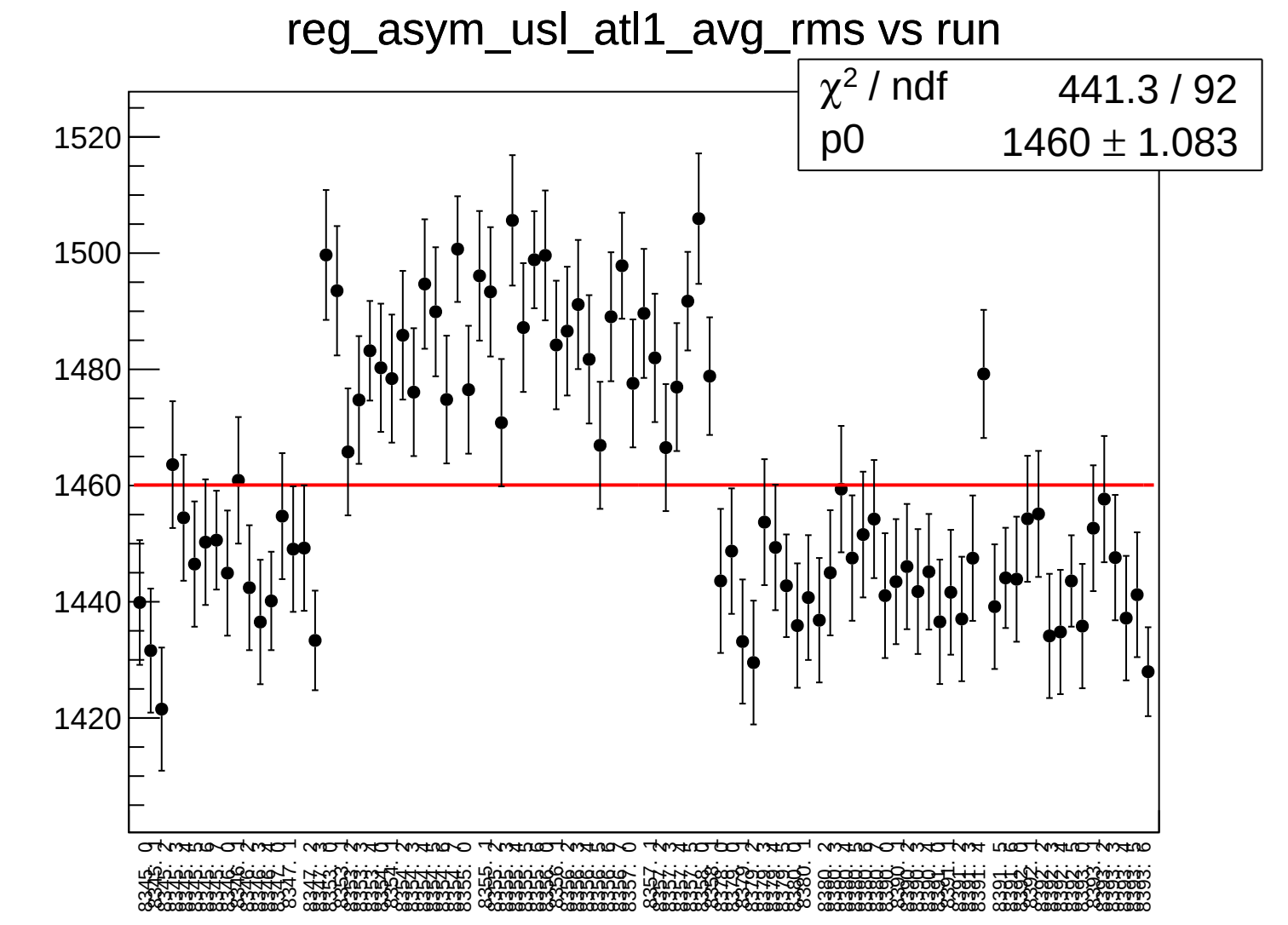

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.308e+05 / 92
p0 23.65 ± 0.01877
70
60
50
40
30
20
10

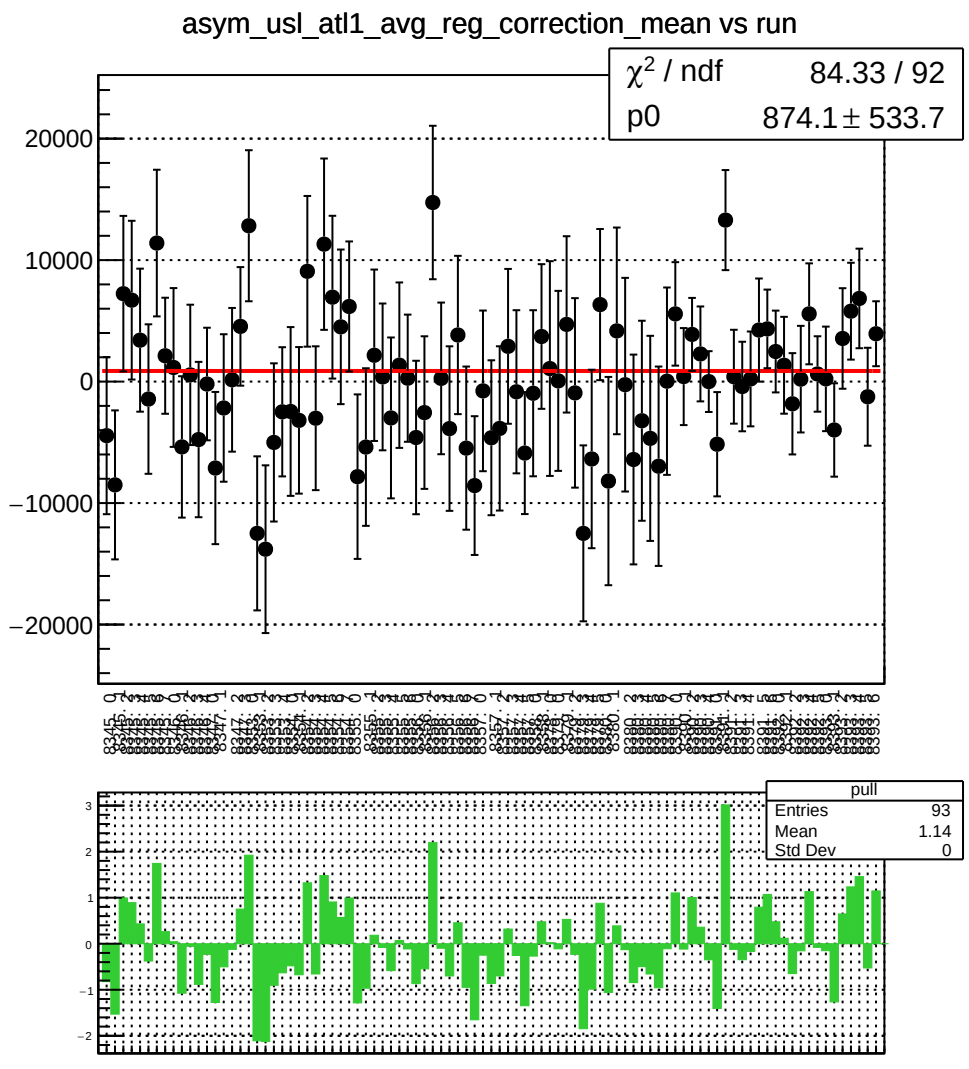

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 122.2 / 92
p0 −9.101e−14 ± 7.059e−14
pull
Entries 93
Mean −95.03
Std Dev 0
pull1D
Entries 93
Mean 0.03683
Std Dev 1.146

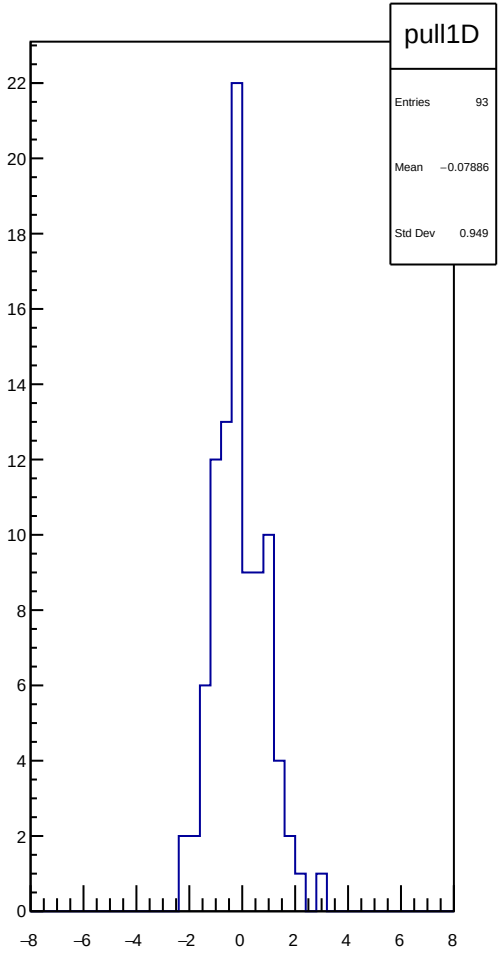

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.968e+05 / 92
p0 5.74e−11 ± 4.992e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

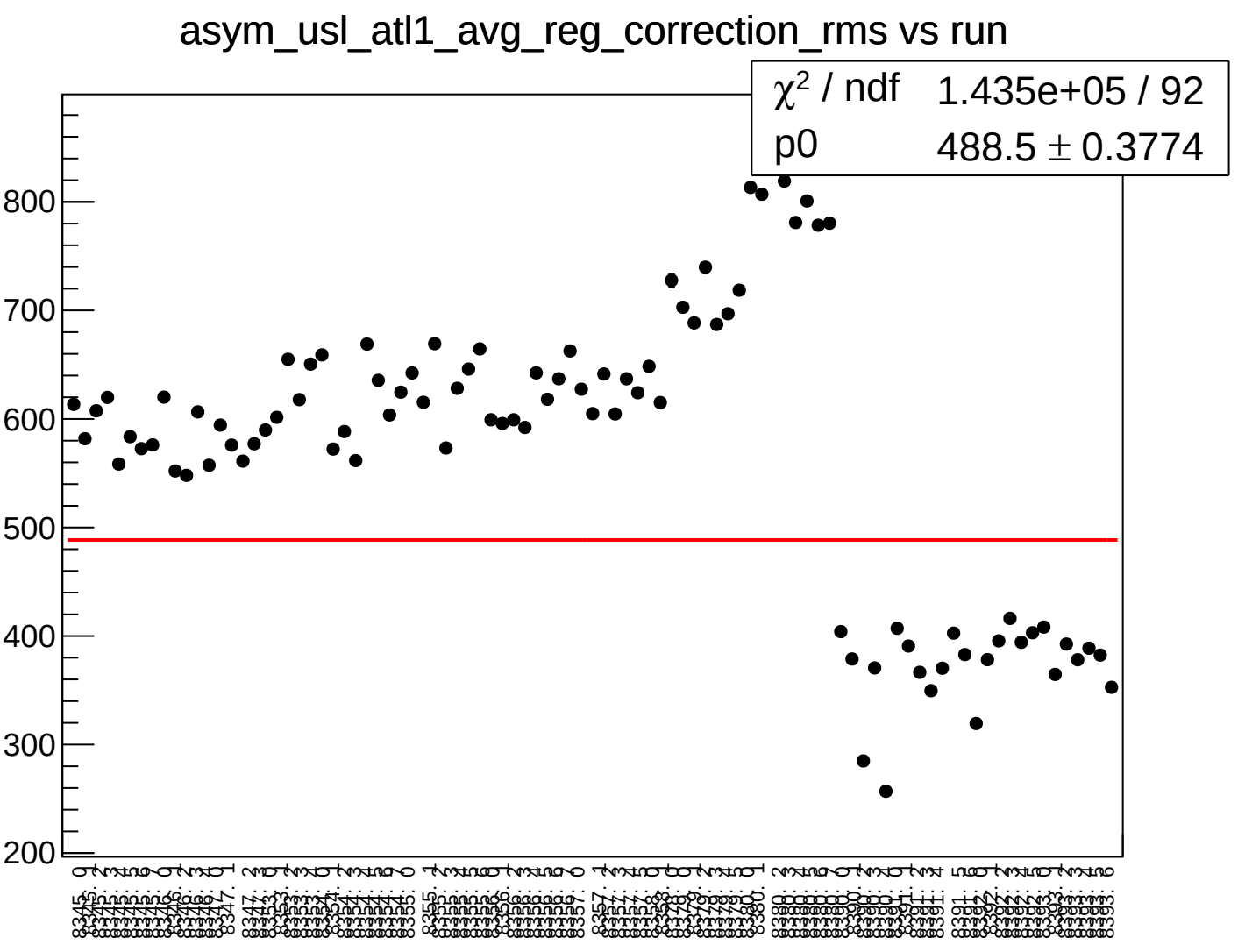

reg_asym_usl_atl1_avg_mean vs run
χ² / ndf 81.53 / 92
p0 780.4 ± 1531
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −71.86
Std Dev 0
2
1
0
−1
−2

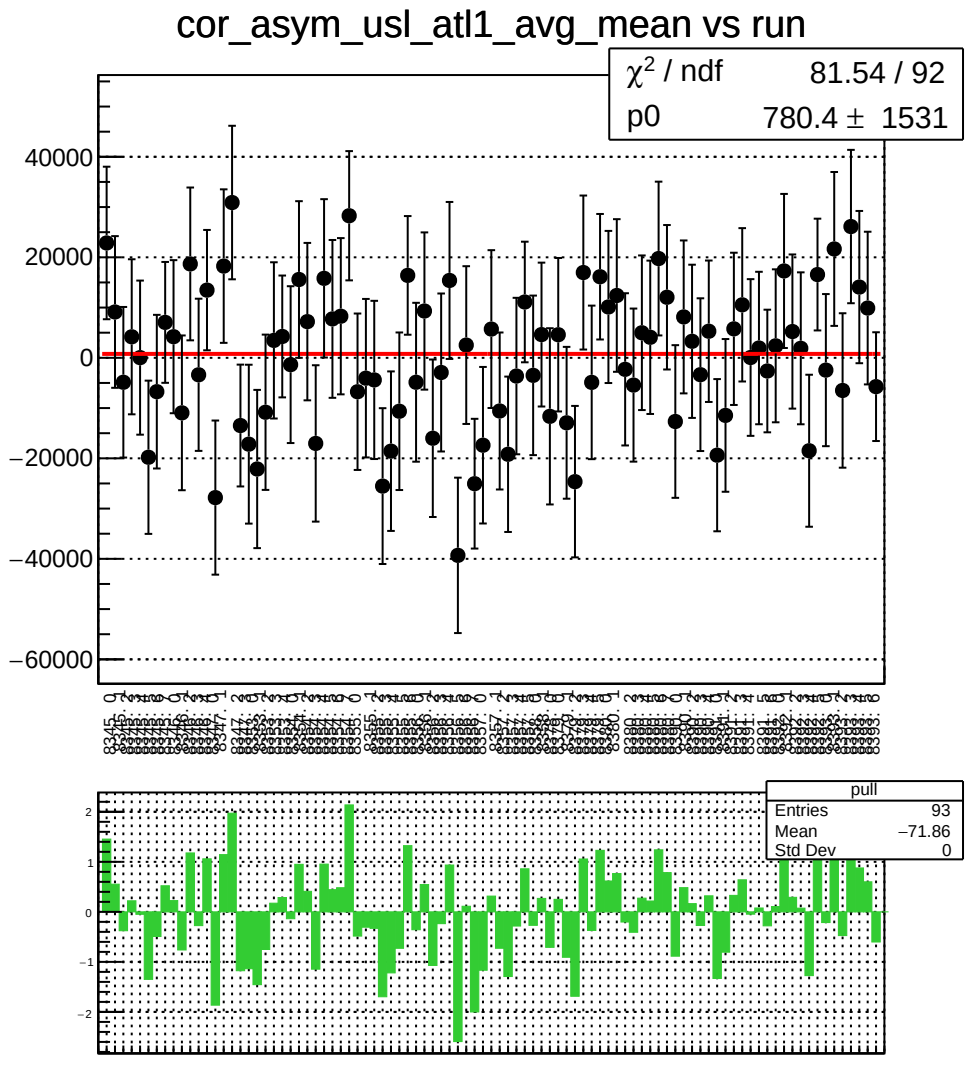

pull1D
Entries 93
Mean −0.01883
Std Dev 0.9361
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

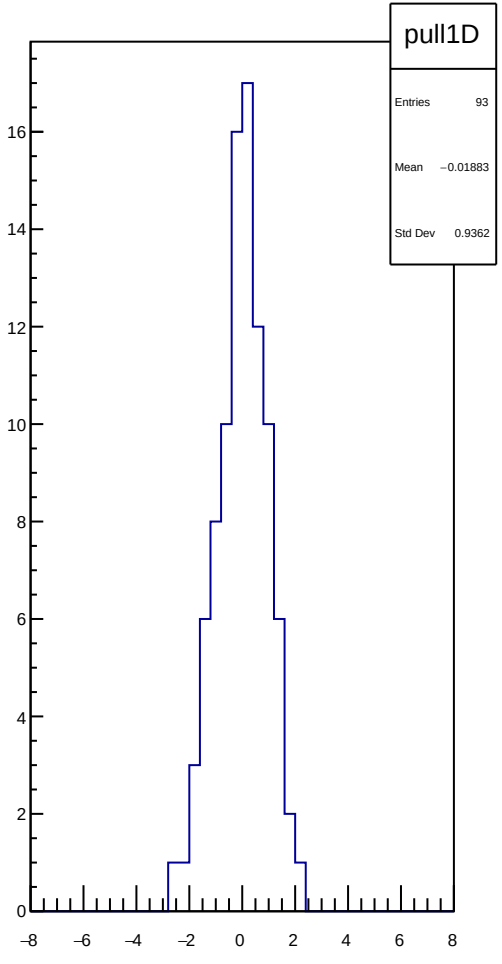

reg_asym_usl_atl1_avg_rms vs run
χ^2 / ndf 441.3 / 92
p0 1460 ± 1.083
1520
1500
1480
1460
1440
1420

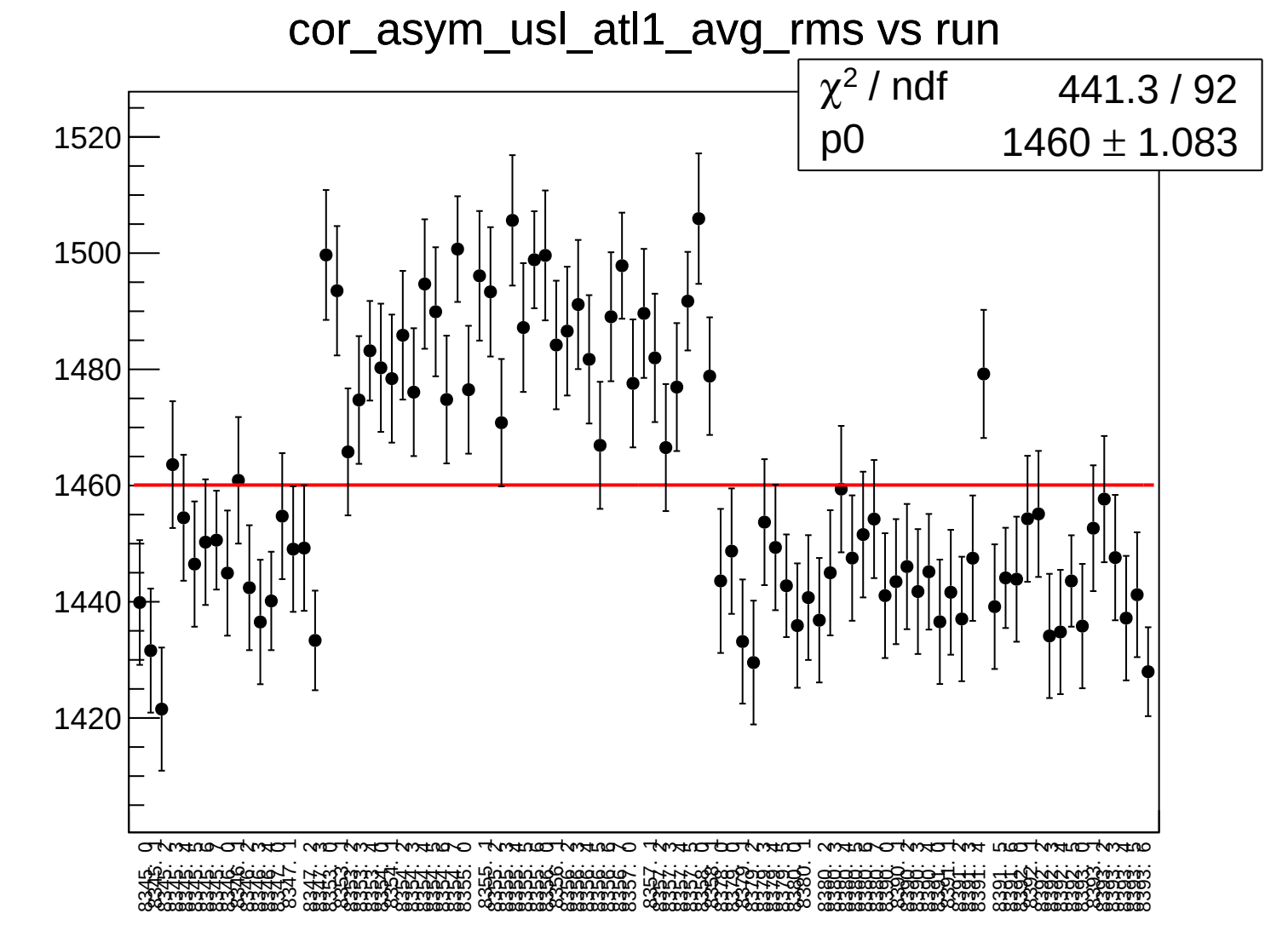

asym_usl_atl1_avg_reg_correction_mean vs run
χ² / ndf 84.33 / 92
p0 874.1 ± 533.7
20000
10000
0
−10000
−20000
pull
Entries 93
Mean 1.14
Std Dev 0
3
2
1
0
−1
−2

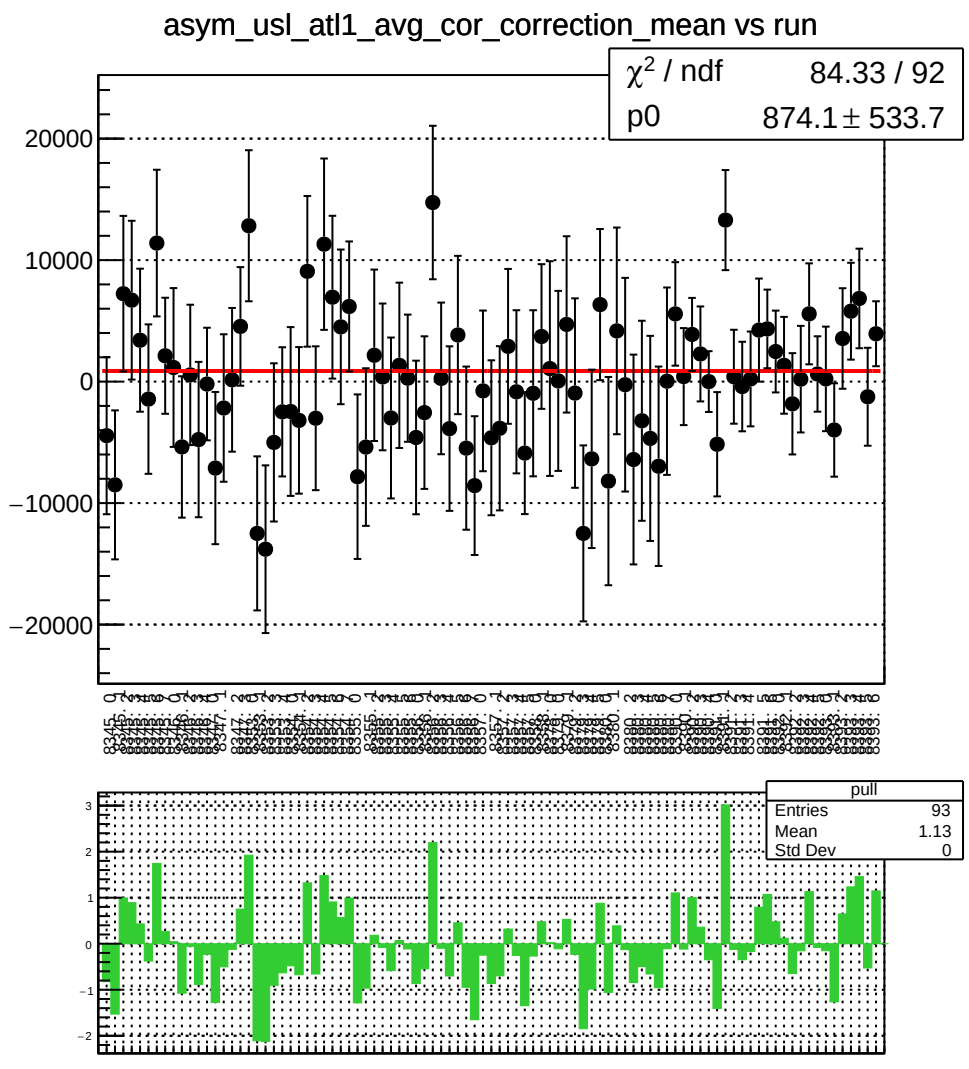

pull1D
Entries 93
Mean −0.07886
Std Dev 0.949
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

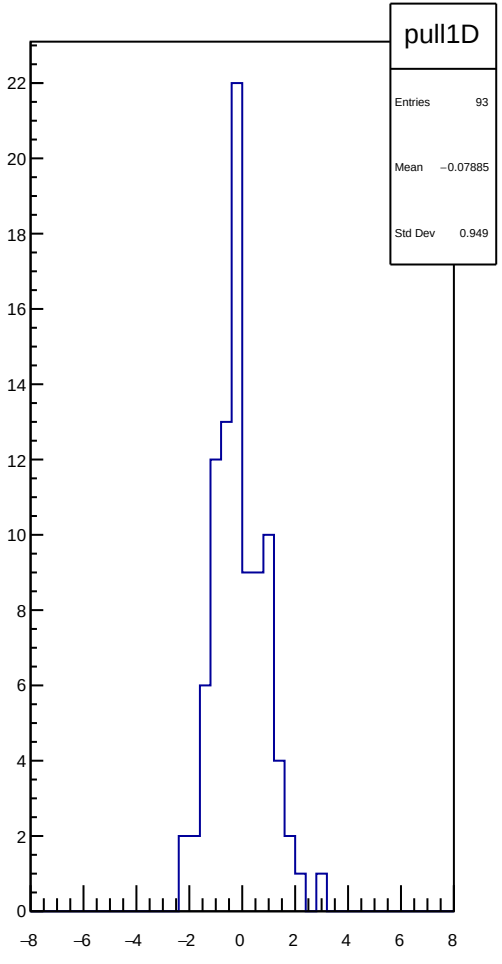

asym_usl_atl1_avg_reg_correction_rms vs run
χ² / ndf 1.435e+05 / 92
p0 488.5 ± 0.3774
800
700
600
500
400
300
200

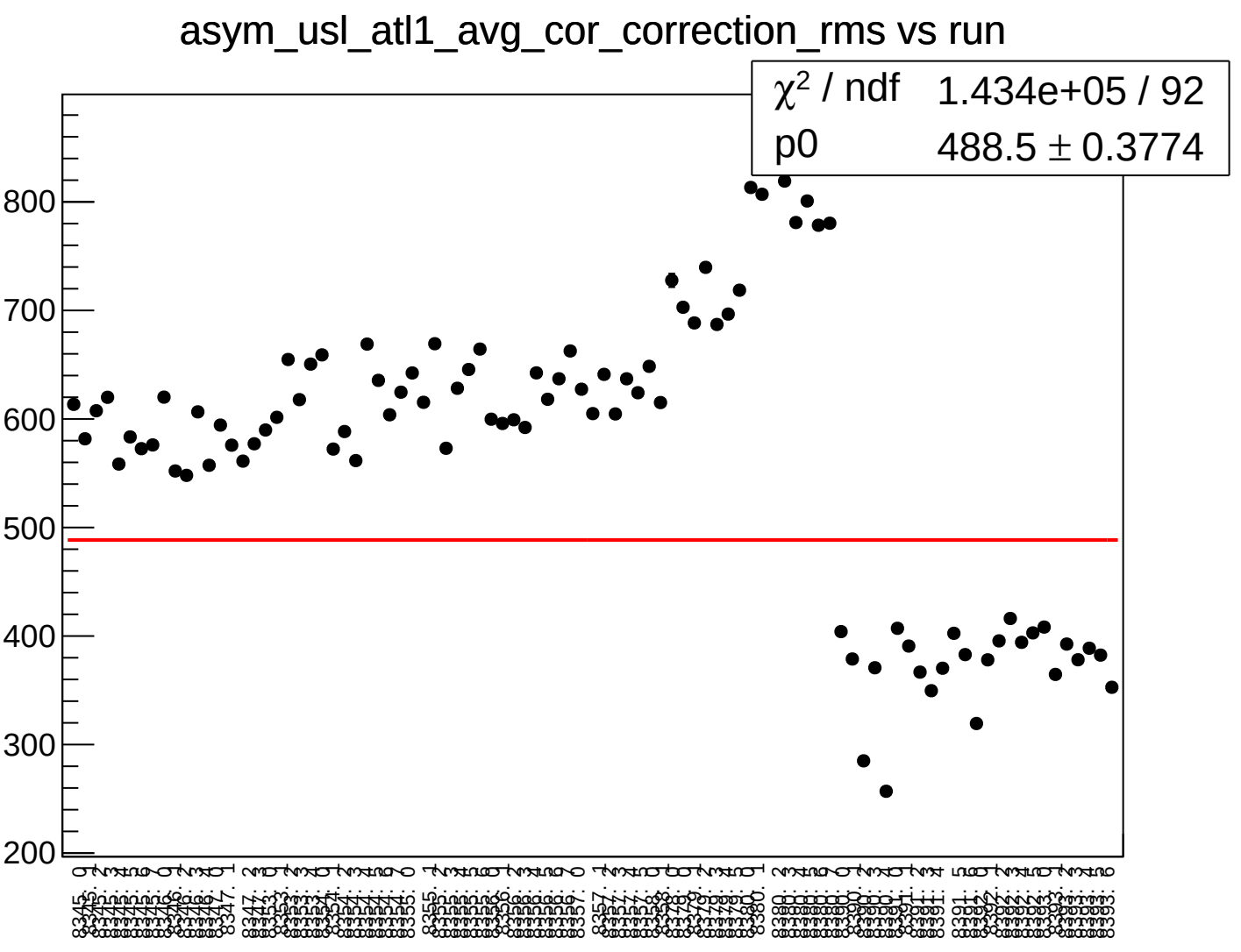

cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 81.54 / 92
p0 780.4 ± 1531
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −71.86
Std Dev 0
2
1
0
−1
−2

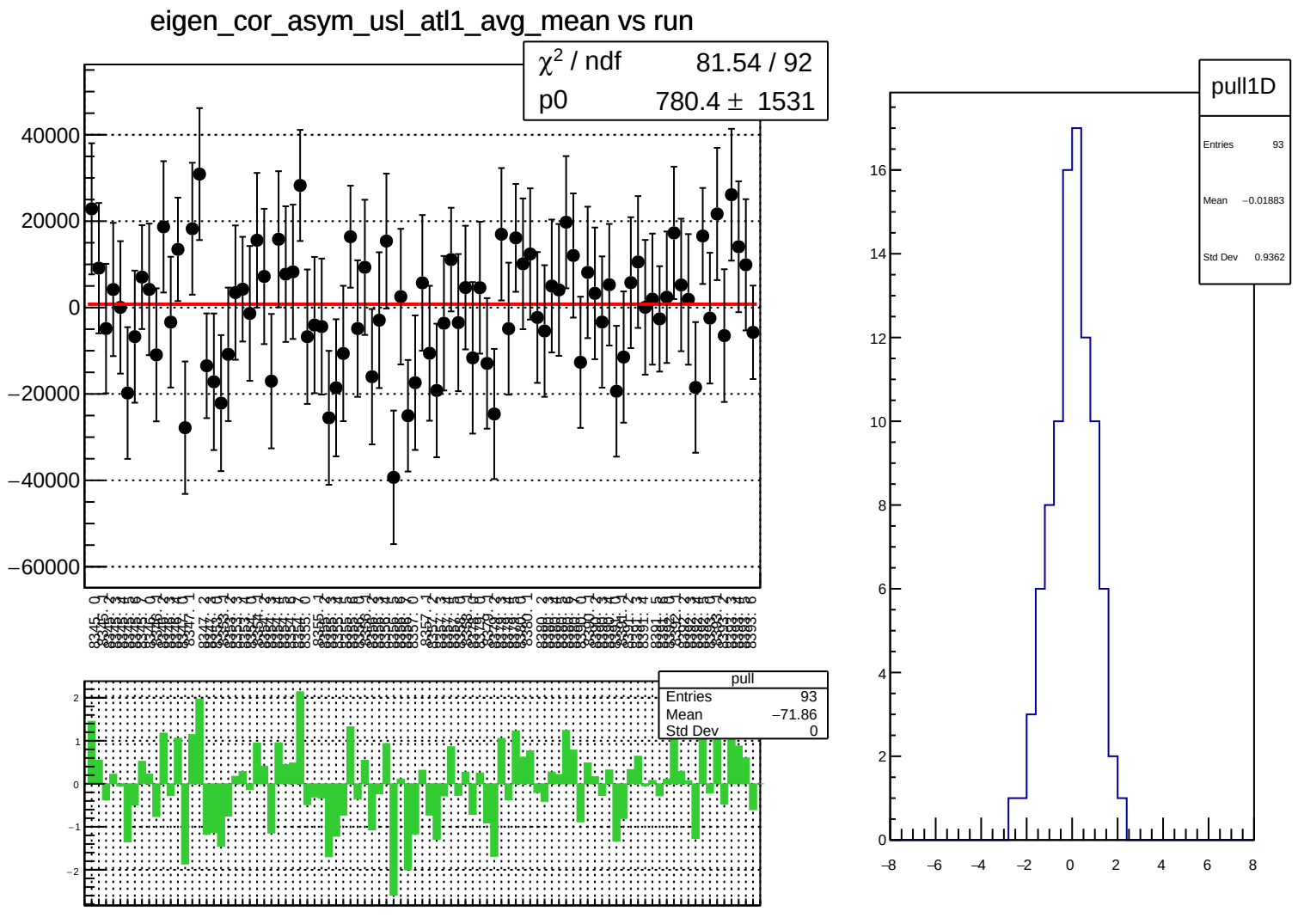

pull1D
Entries 93
Mean −0.01883
Std Dev 0.9362
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

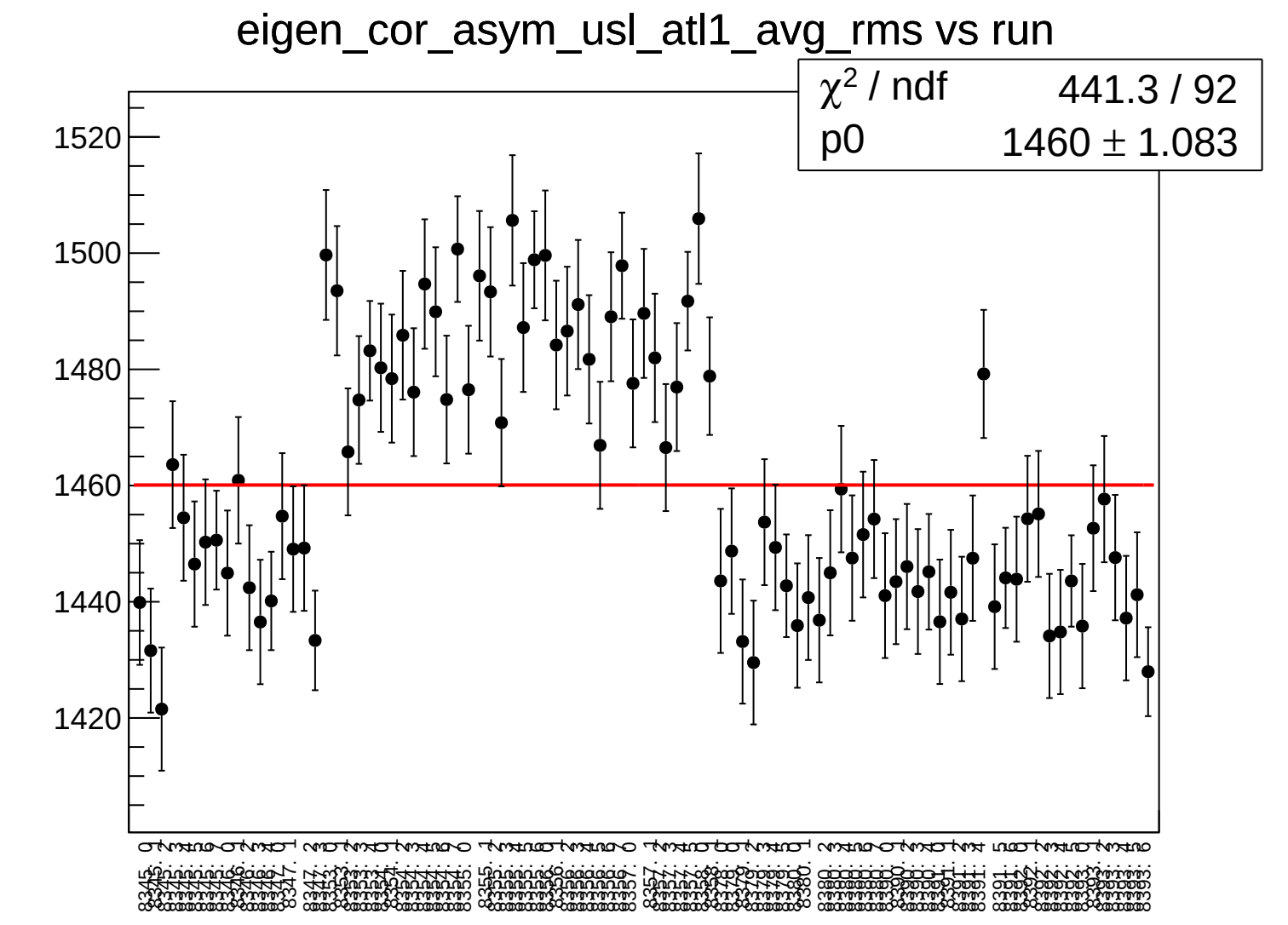

cor_asym_usl_atl1_avg_rms vs run
χ^2 / ndf 441.3 / 92
p0 1460 ± 1.083
1520
1500
1480
1460
1440
1420

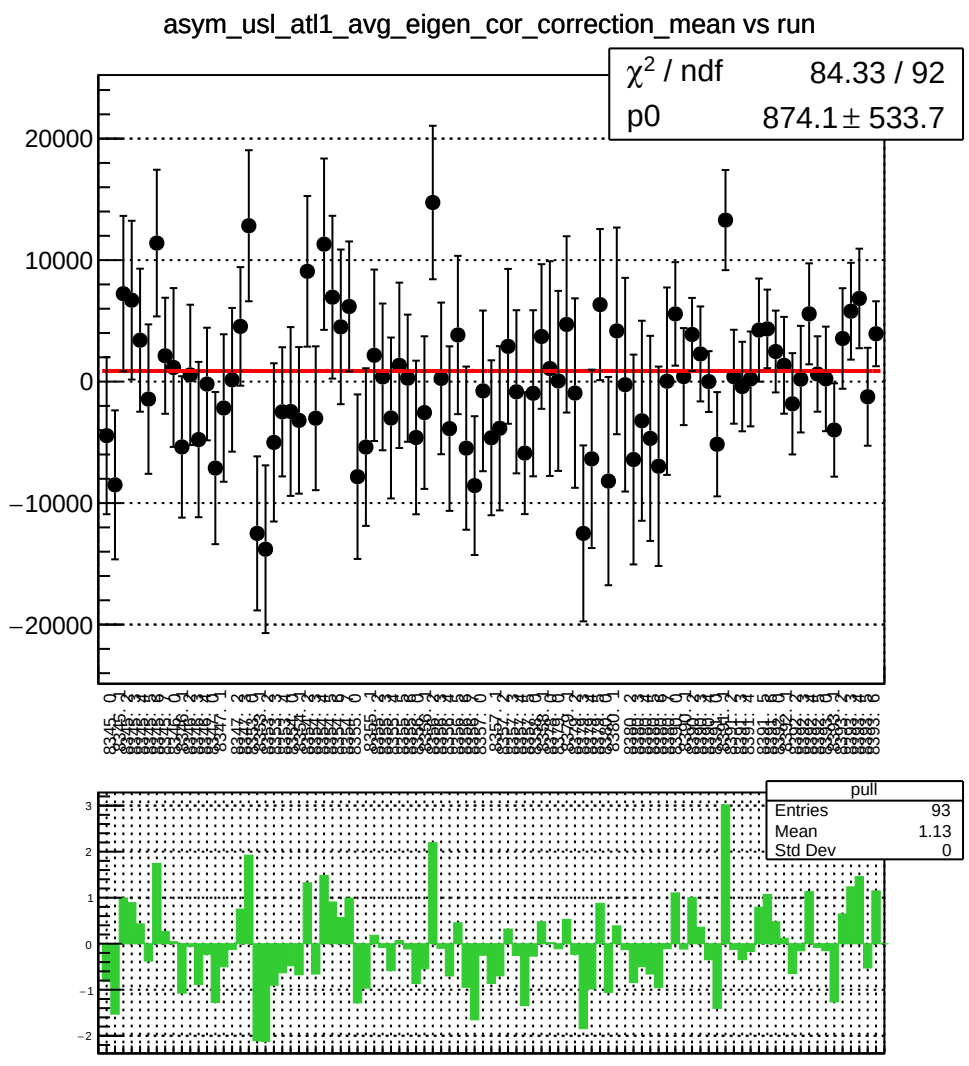

asym_usl_atl1_avg_cor_correction_mean vs run
χ² / ndf 84.33 / 92
p0 874.1 ± 533.7
20000
10000
0
−10000
−20000
pull
Entries 93
Mean 1.13
Std Dev 0
3
2
1
0
−1
−2

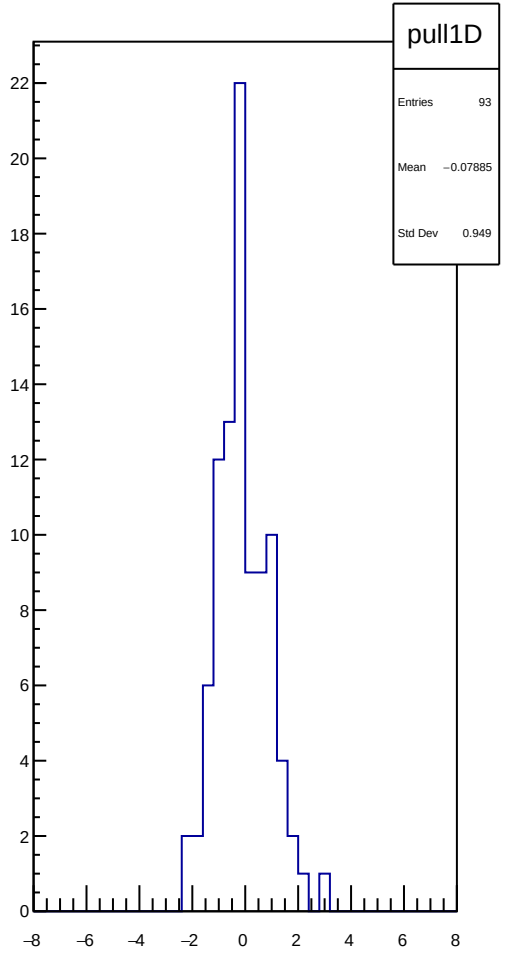

pull1D
Entries 93
Mean −0.07885
Std Dev 0.949
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

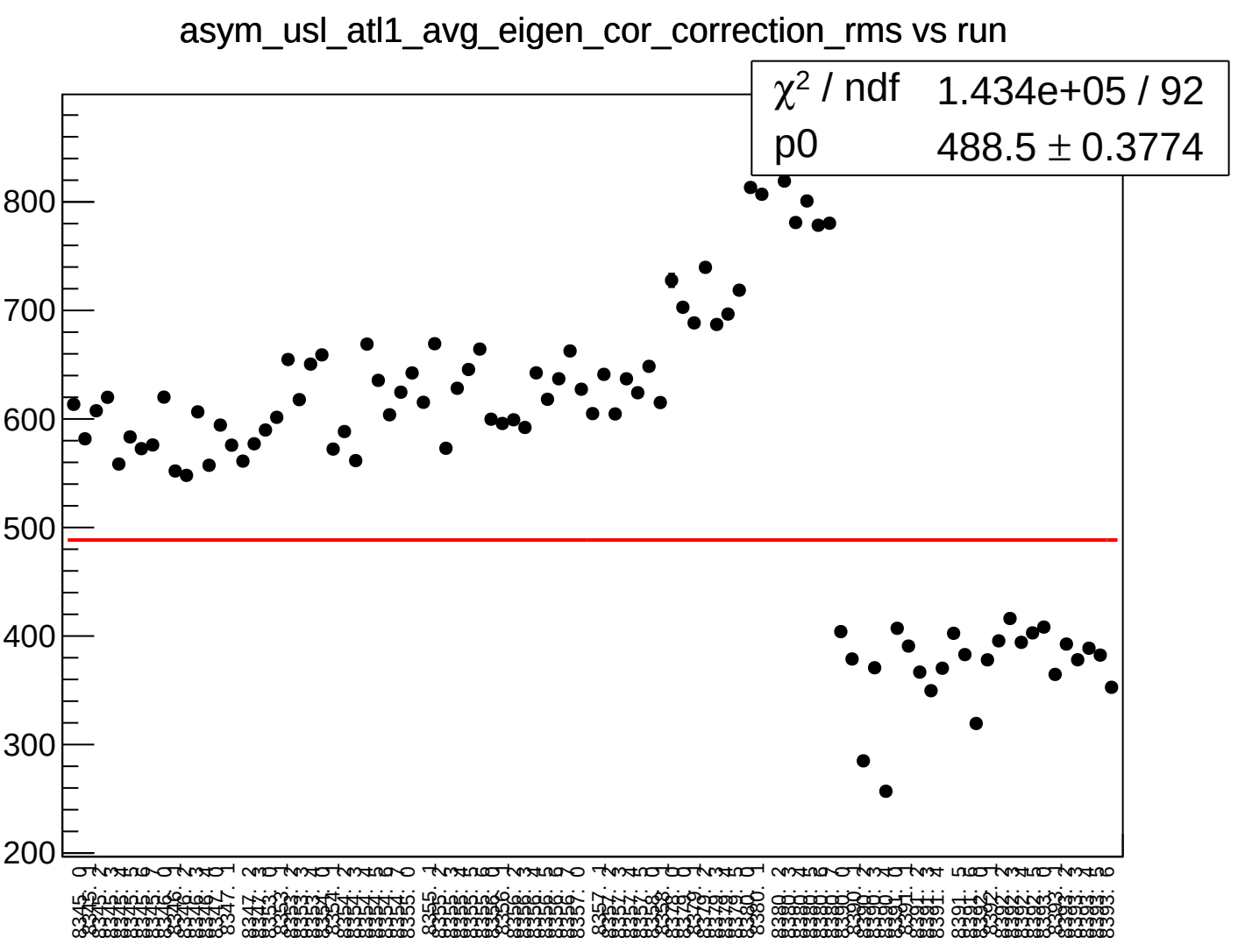

asym_usl_atl1_avg_cor_correction_rms vs run
χ² / ndf 1.434e+05 / 92
p0 488.5 ± 0.3774
800
700
600
500
400
300
200

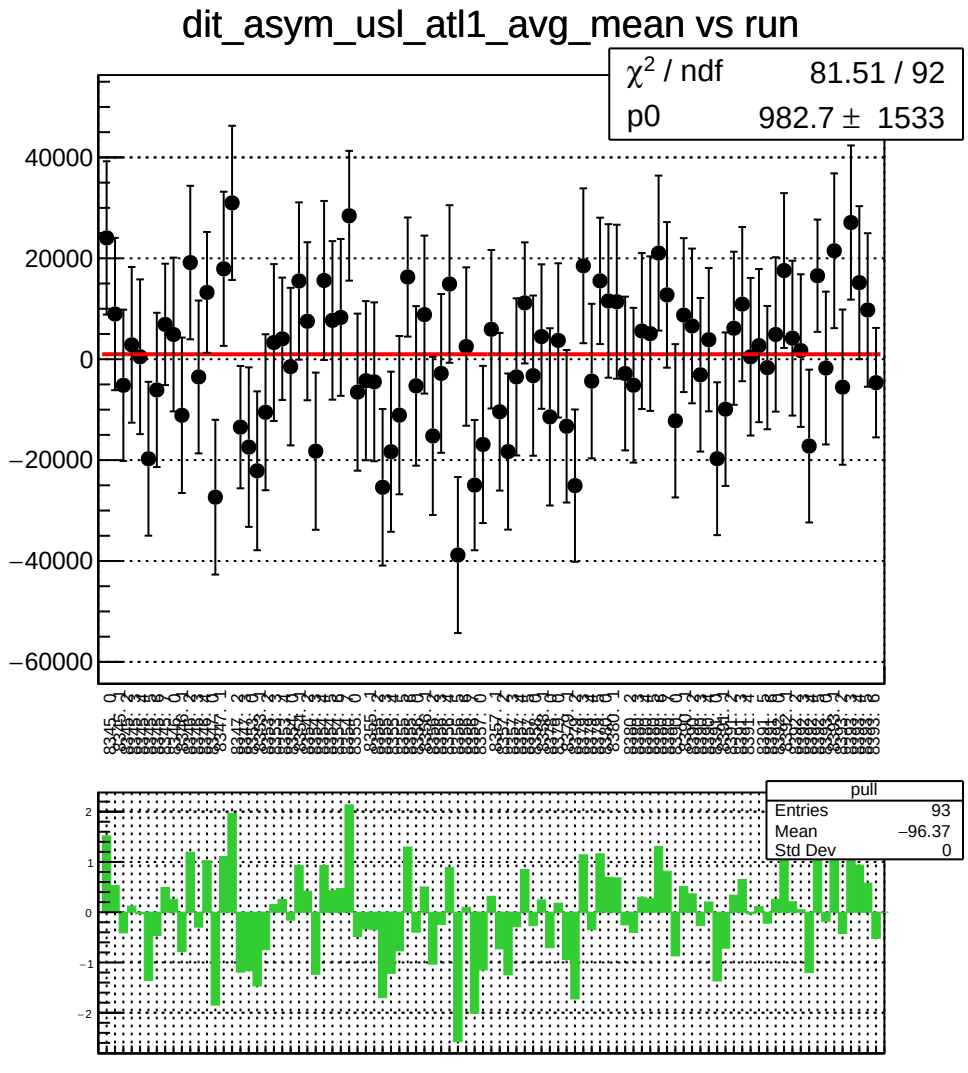

eigen_cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 81.54 / 92
p0 780.4 ± 1531
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −71.86
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.01883
Std Dev 0.9362
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

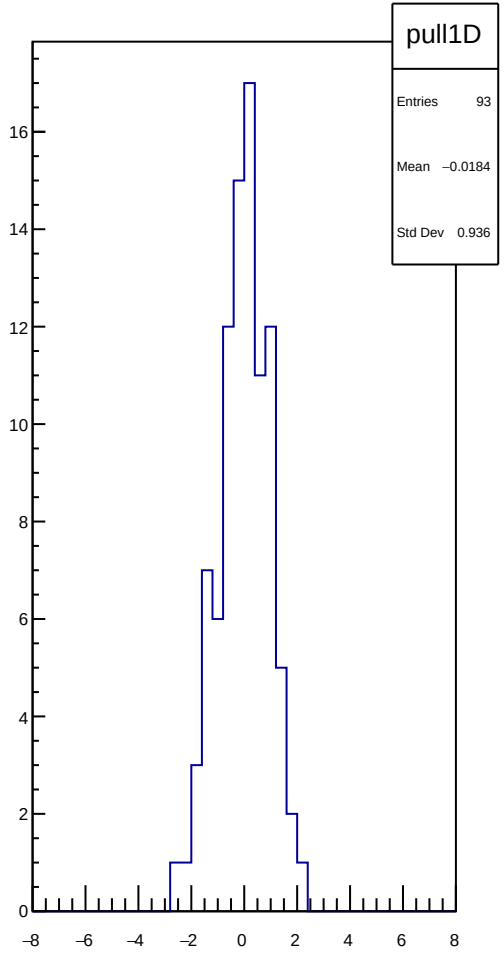

eigen_cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 441.3 / 92
p0 1460 ± 1.083
1520
1500
1480
1460
1440
1420

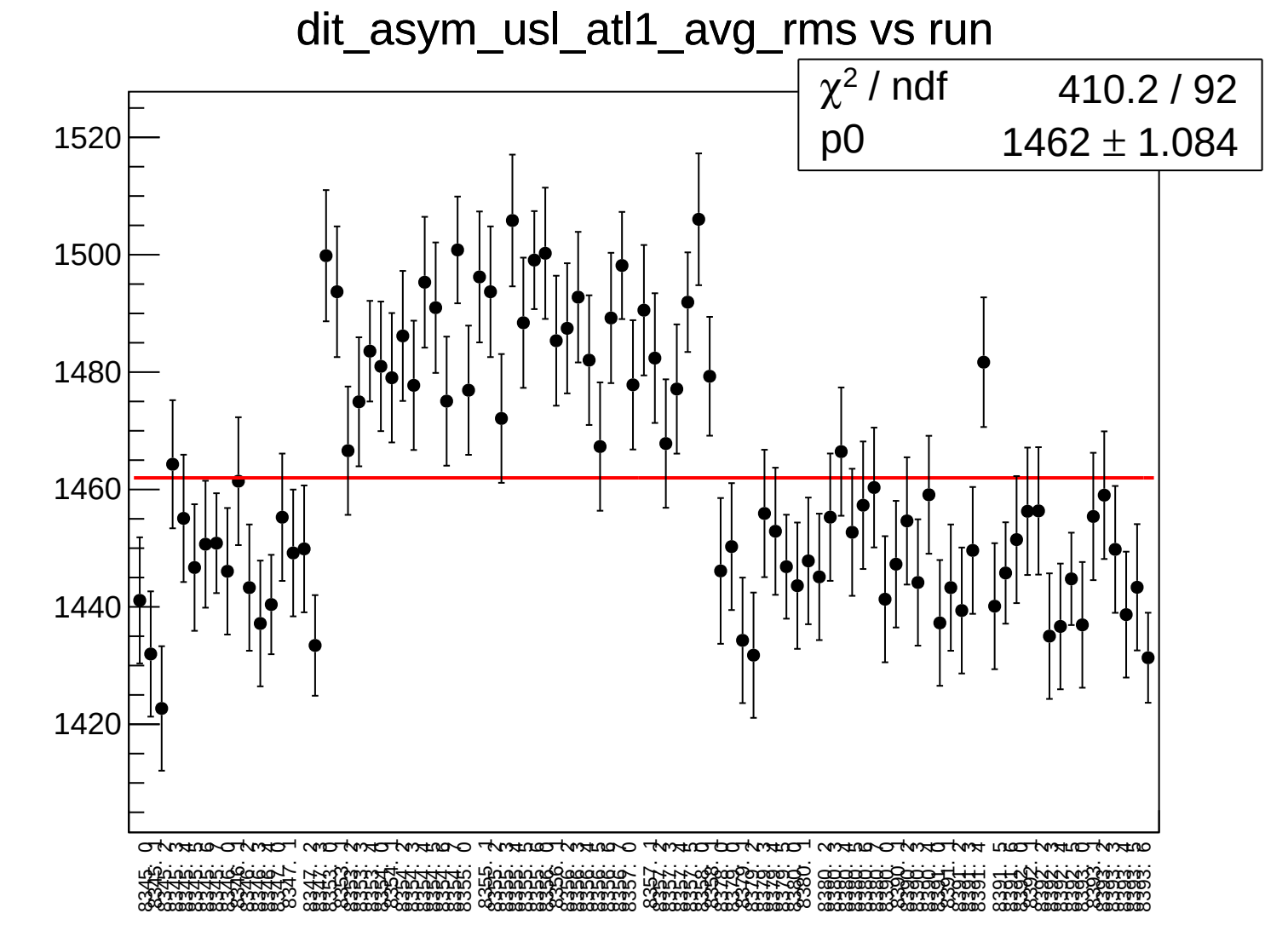

asym_usl_atl1_avg_eigen_cor_correction_mean vs run
χ² / ndf 84.33 / 92
p0 874.1 ± 533.7
20000
10000
0
−10000
−20000
pull
Entries 93
Mean 1.13
Std Dev 0
3
2
1
0
−1
−2

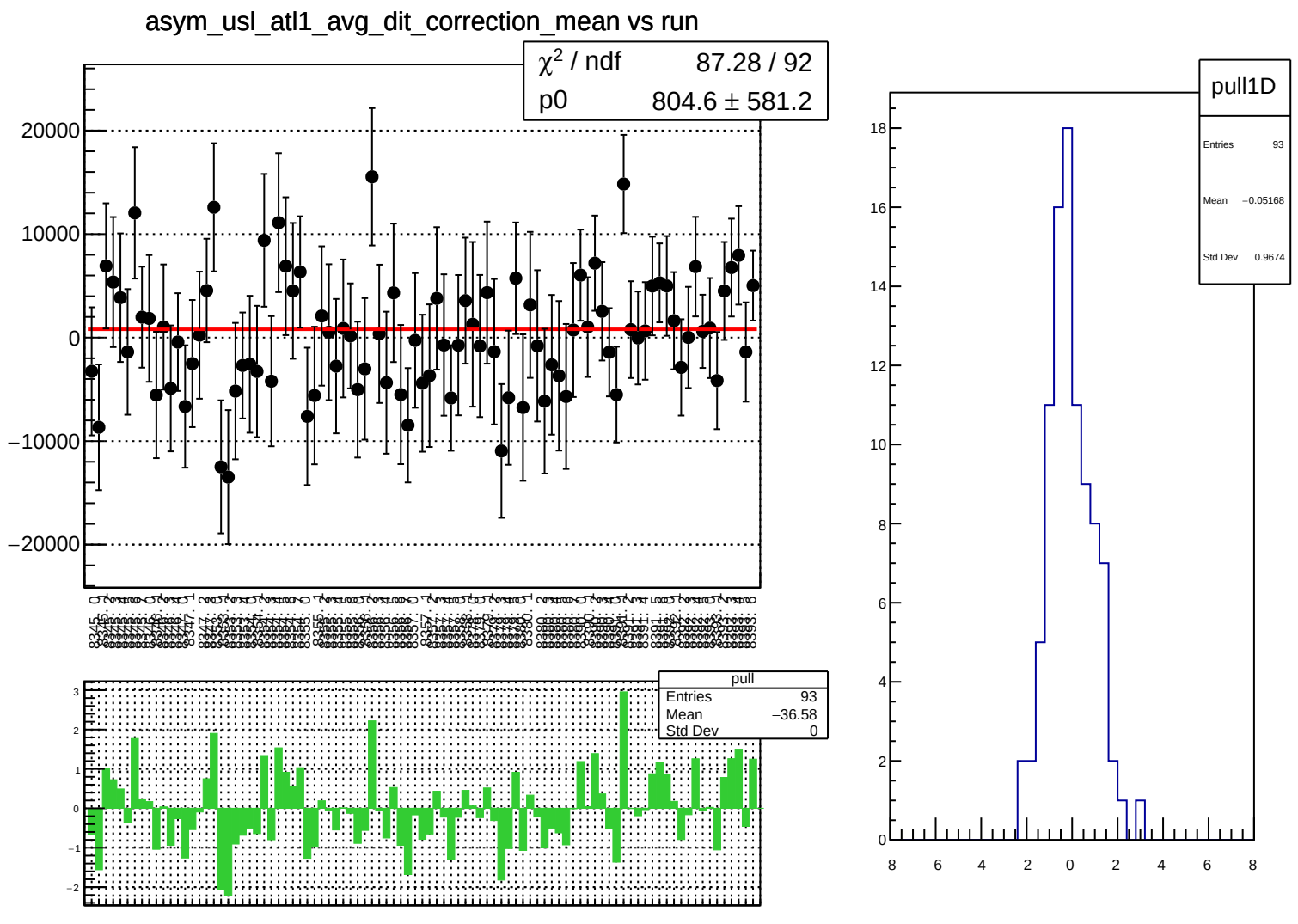

pull1D
Entries 93
Mean −0.07885
Std Dev 0.949
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

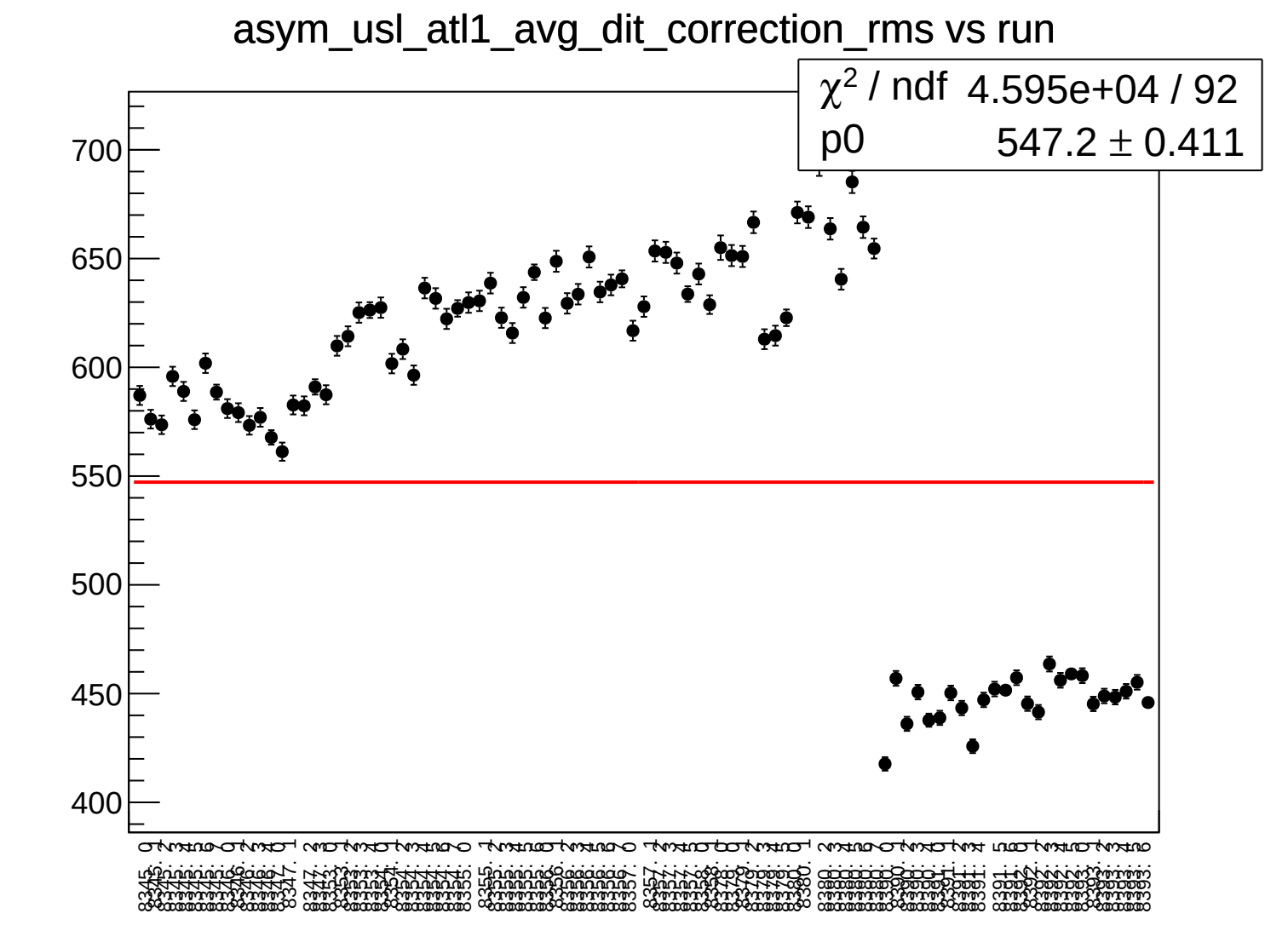

asym_usl_atl1_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.434e+05 / 92
p0 488.5 ± 0.3774
800
700
600
500
400
300
200

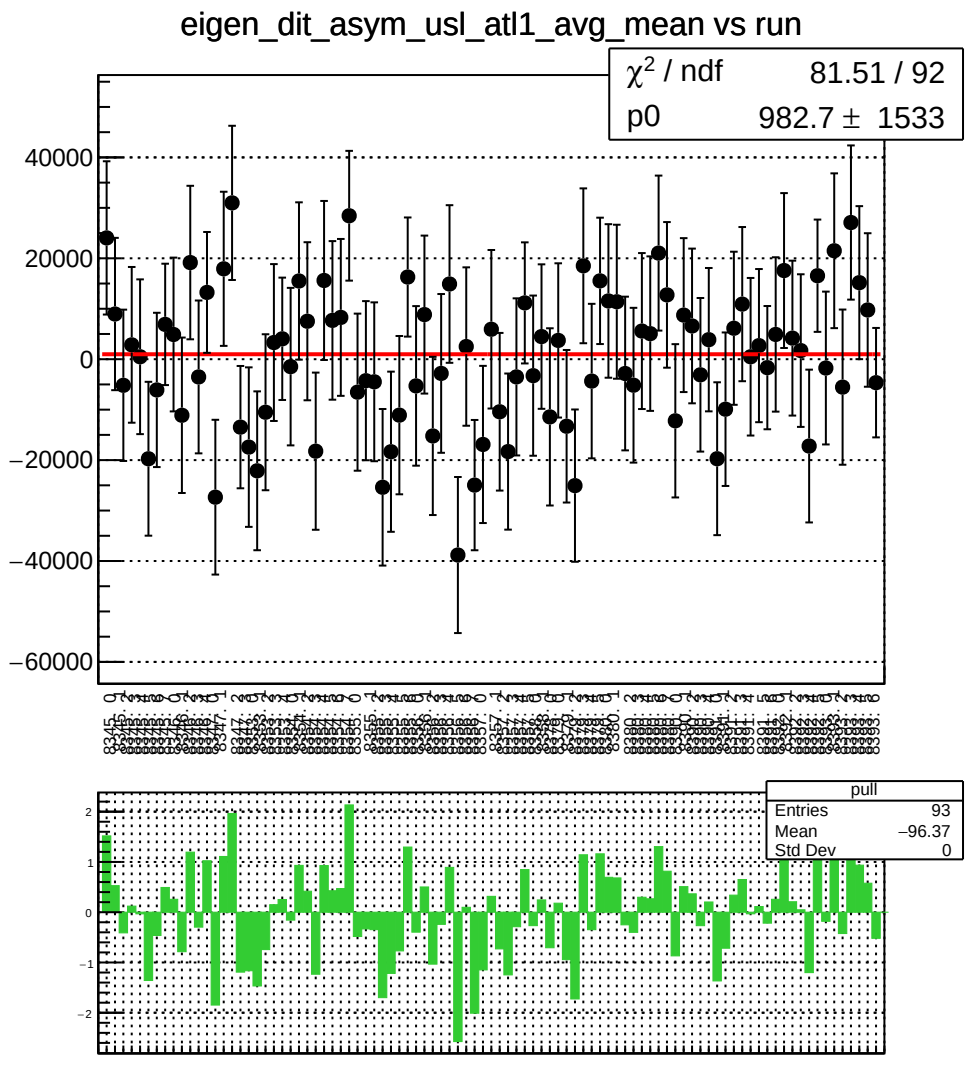

dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 81.51 / 92
p0 982.7 ± 1533
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −96.37
Std Dev 0
2
1
0
−1
−2

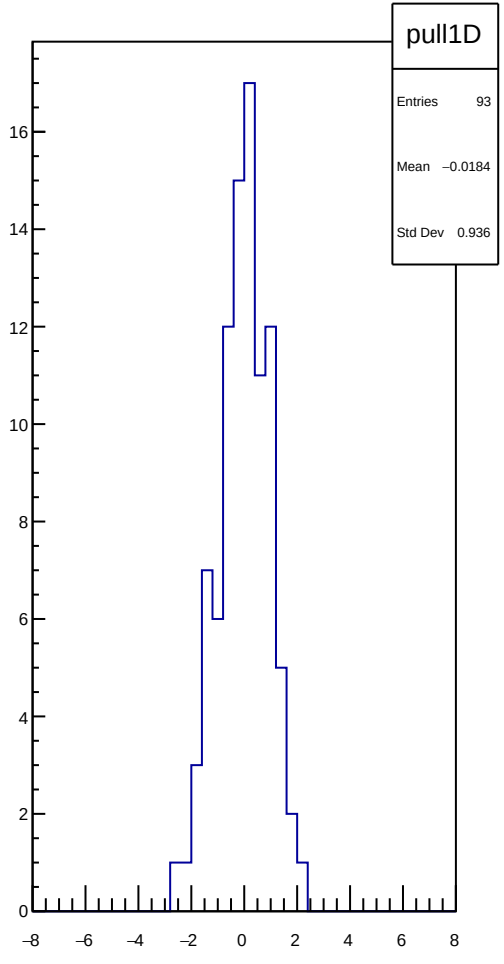

pull1D
Entries 93
Mean −0.0184
Std Dev 0.936
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

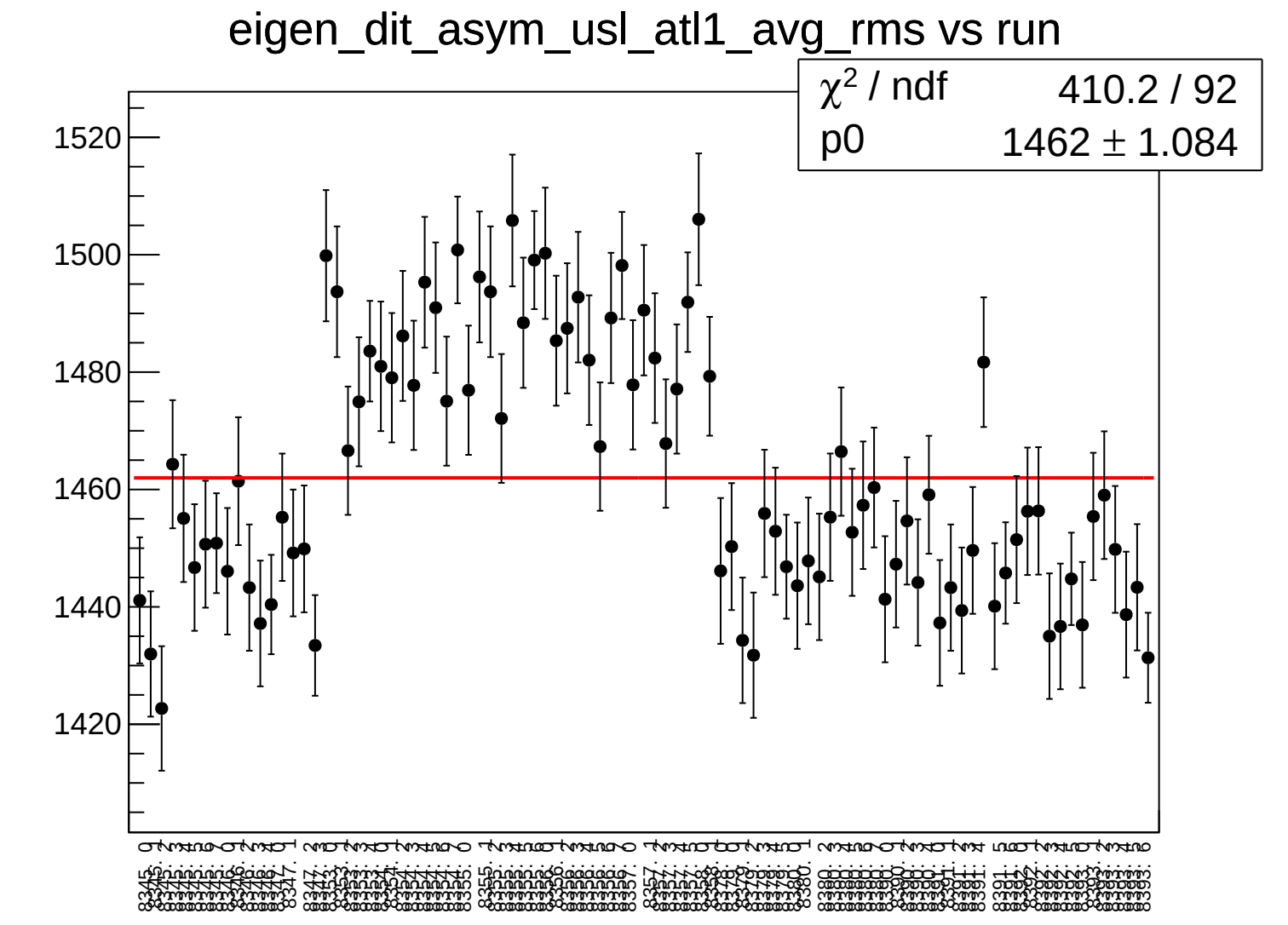

dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 410.2 / 92
p0 1462 ± 1.084
1520
1500
1480
1460
1440
1420

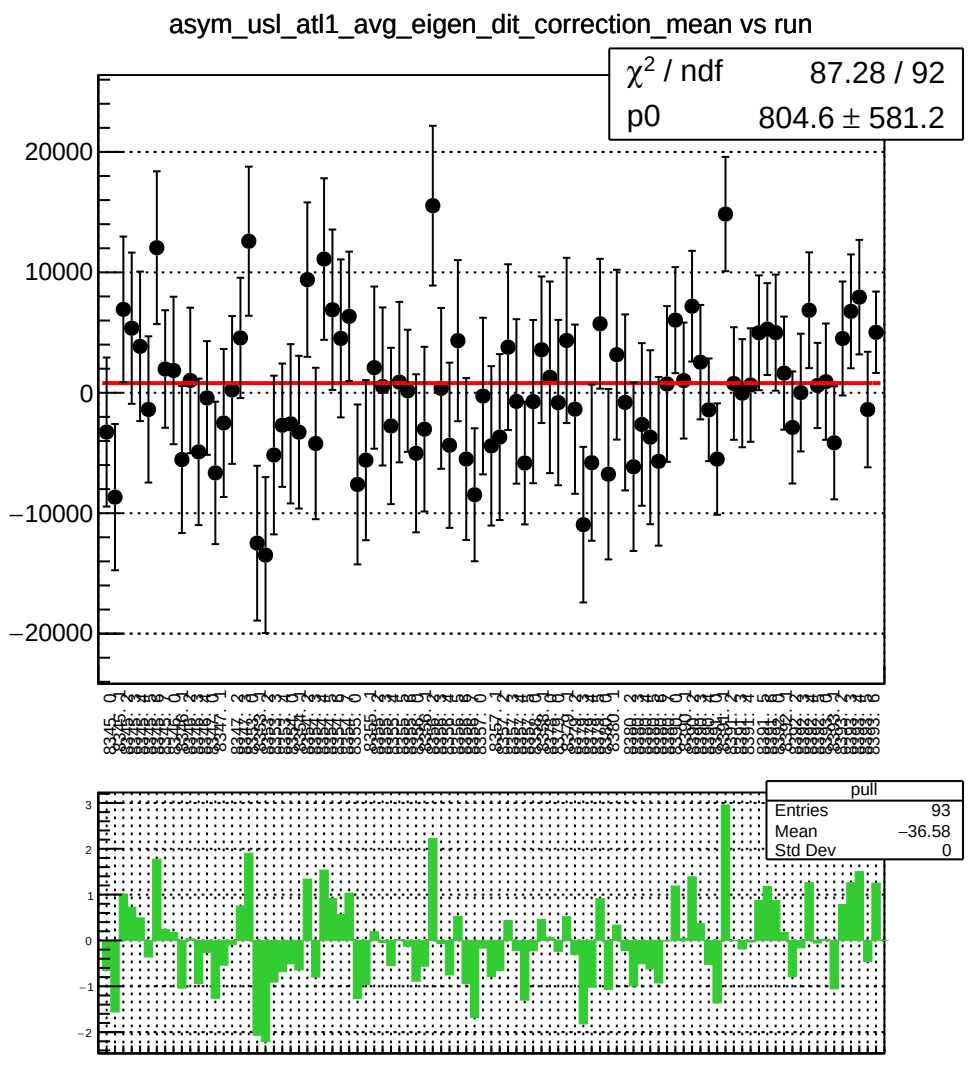

asym_usl_atl1_avg_dit_correction_mean vs run
χ² / ndf 87.28 / 92
p0 804.6 ± 581.2
20000
10000
0
−10000
−20000
pull
Entries 93
Mean −36.58
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.05168
Std Dev 0.9674
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

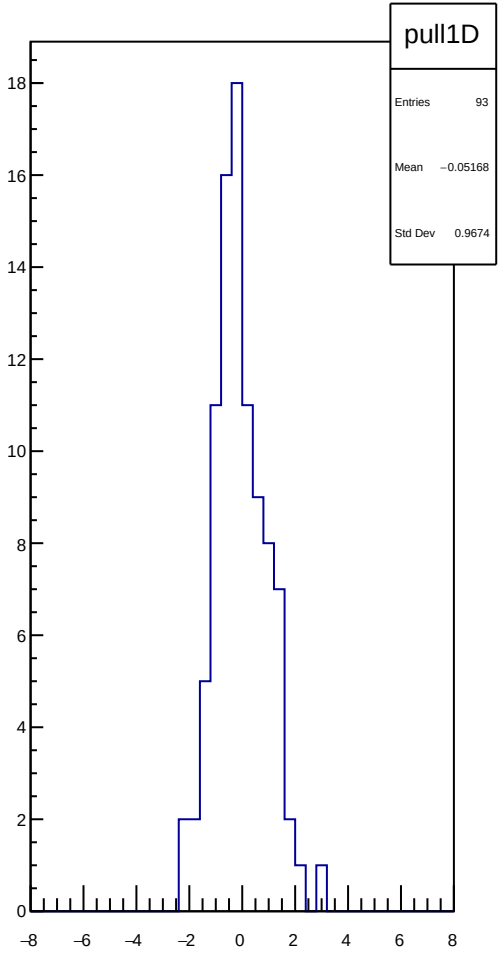

asym_usl_atl1_avg_dit_correction_rms vs run
χ² / ndf 4.595e+04 / 92
p0 547.2 ± 0.411
700
650
600
550
500
450
400

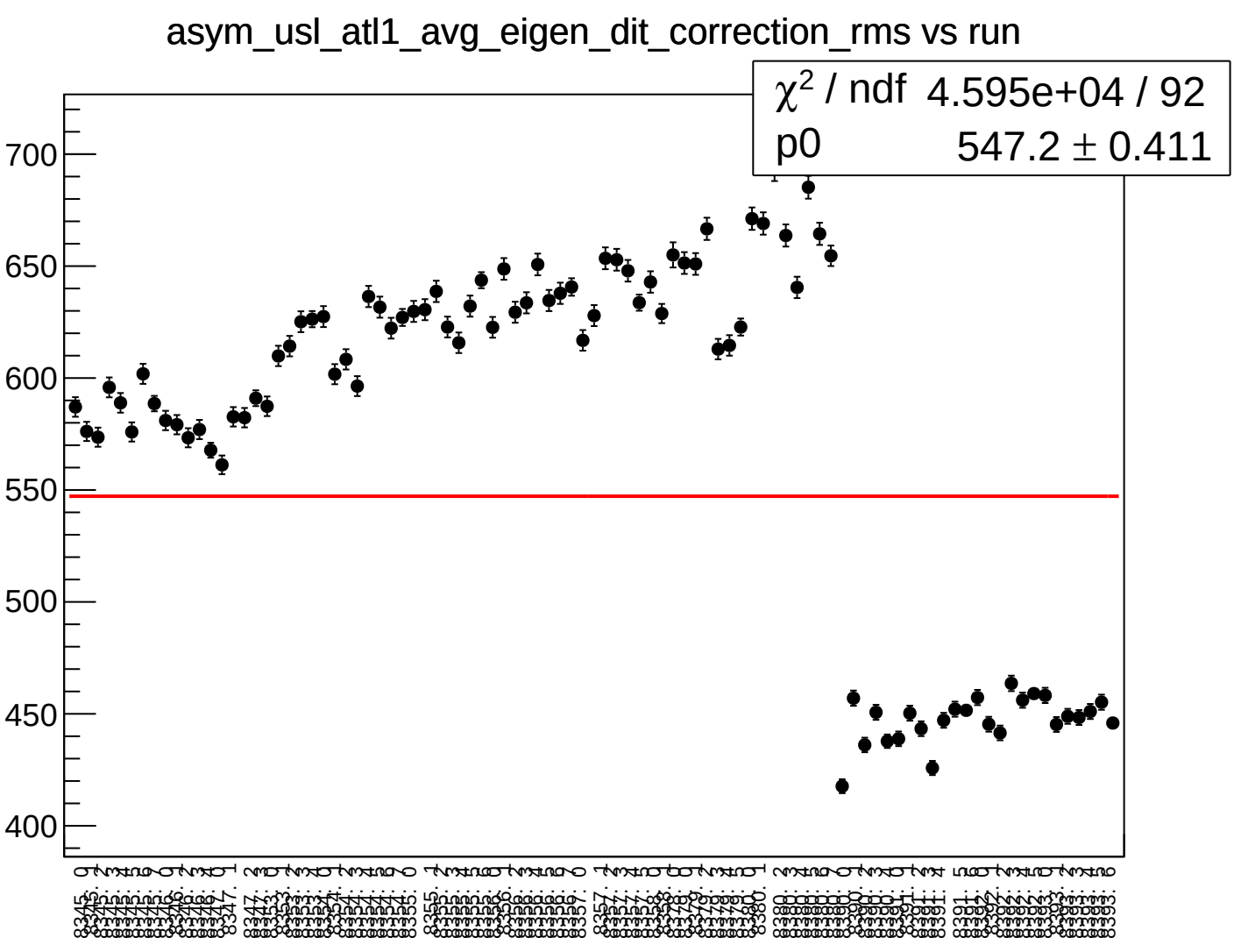

eigen_dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 81.51 / 92
p0 982.7 ± 1533
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −96.37
Std Dev 0
2
1
0
−1
−2

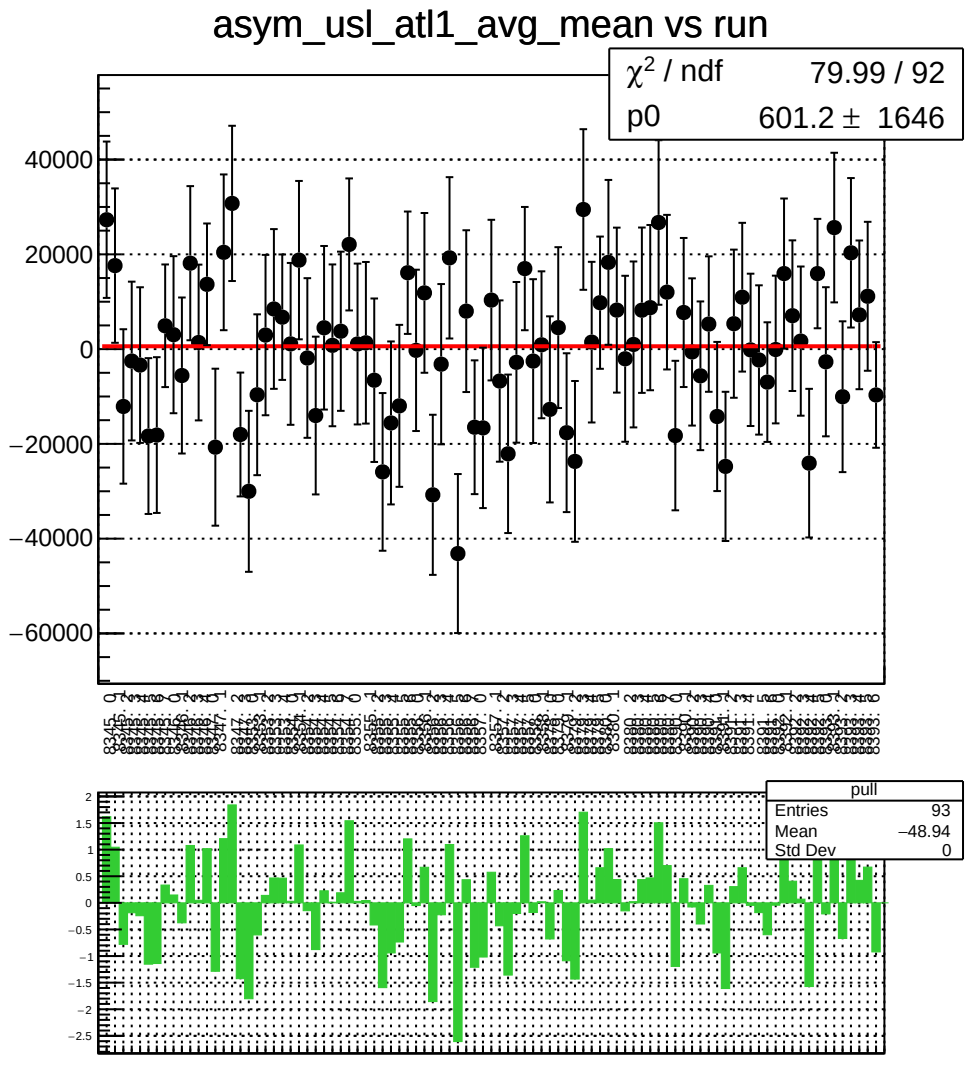

pull1D
Entries 93
Mean −0.0184
Std Dev 0.936
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

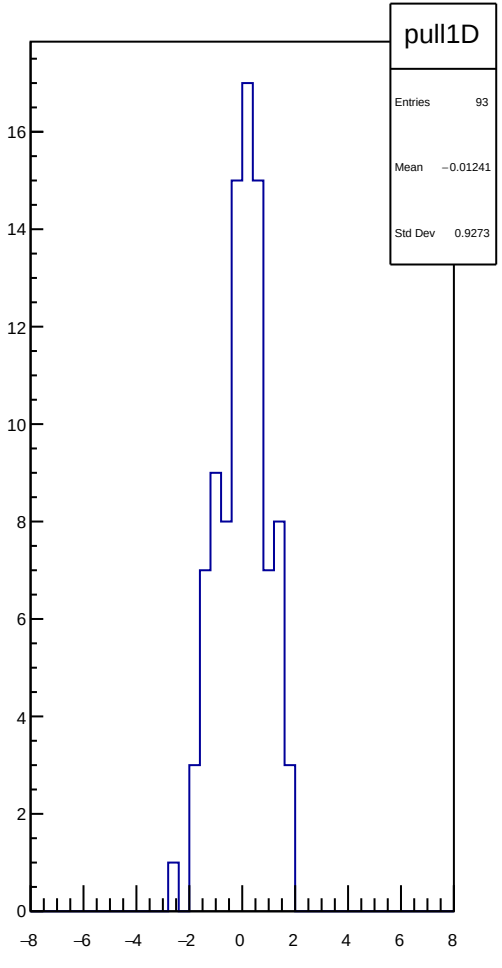

eigen_dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 410.2 / 92
p0 1462 ± 1.084
1520
1500
1480
1460
1440
1420

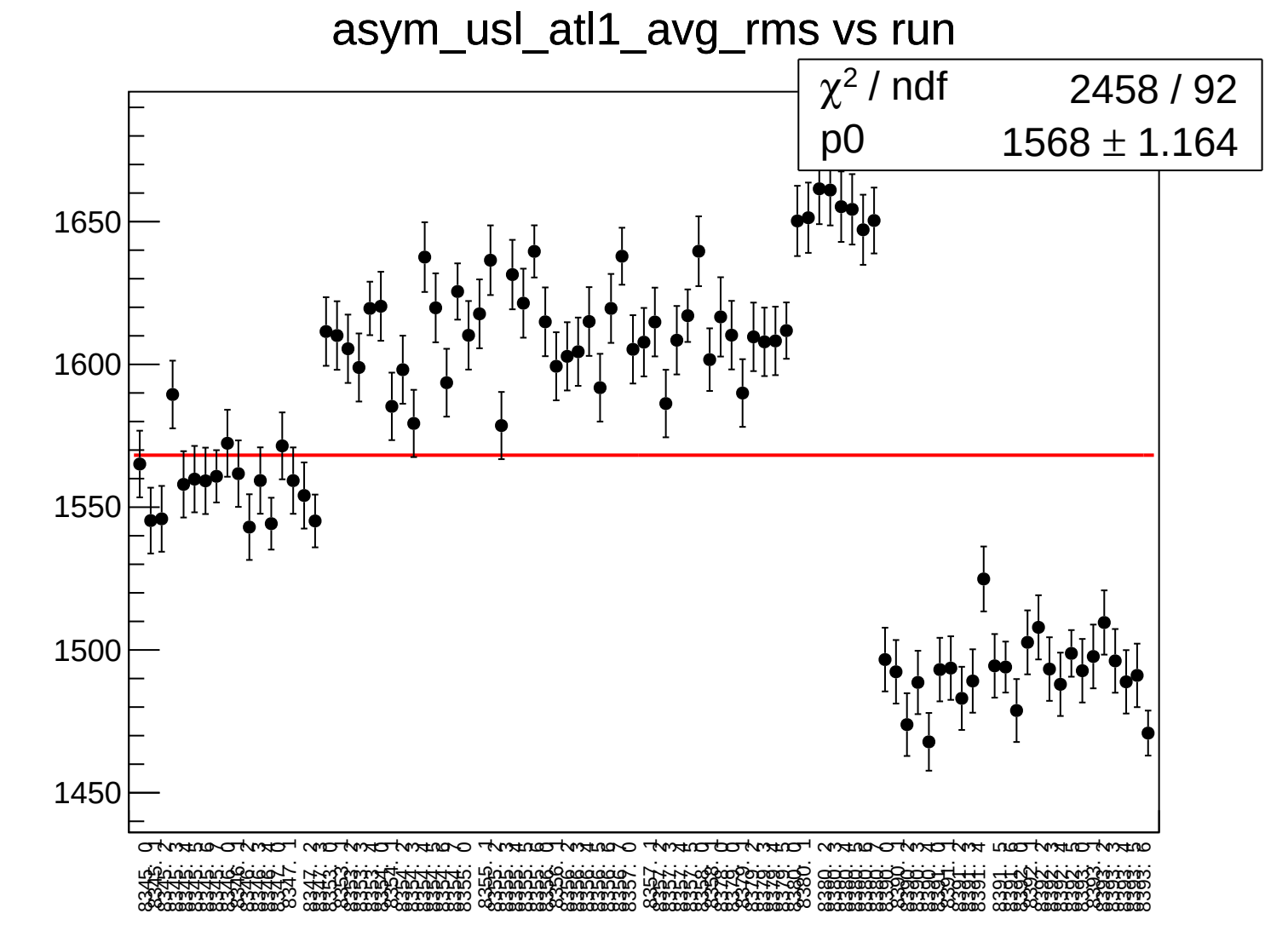

asym_usl_atl1_avg_eigen_dit_correction_mean vs run
χ² / ndf 87.28 / 92
p0 804.6 ± 581.2
20000
10000
0
−10000
−20000
pull
Entries 93
Mean −36.58
Std Dev 0
3
2
1
0
−1
−2

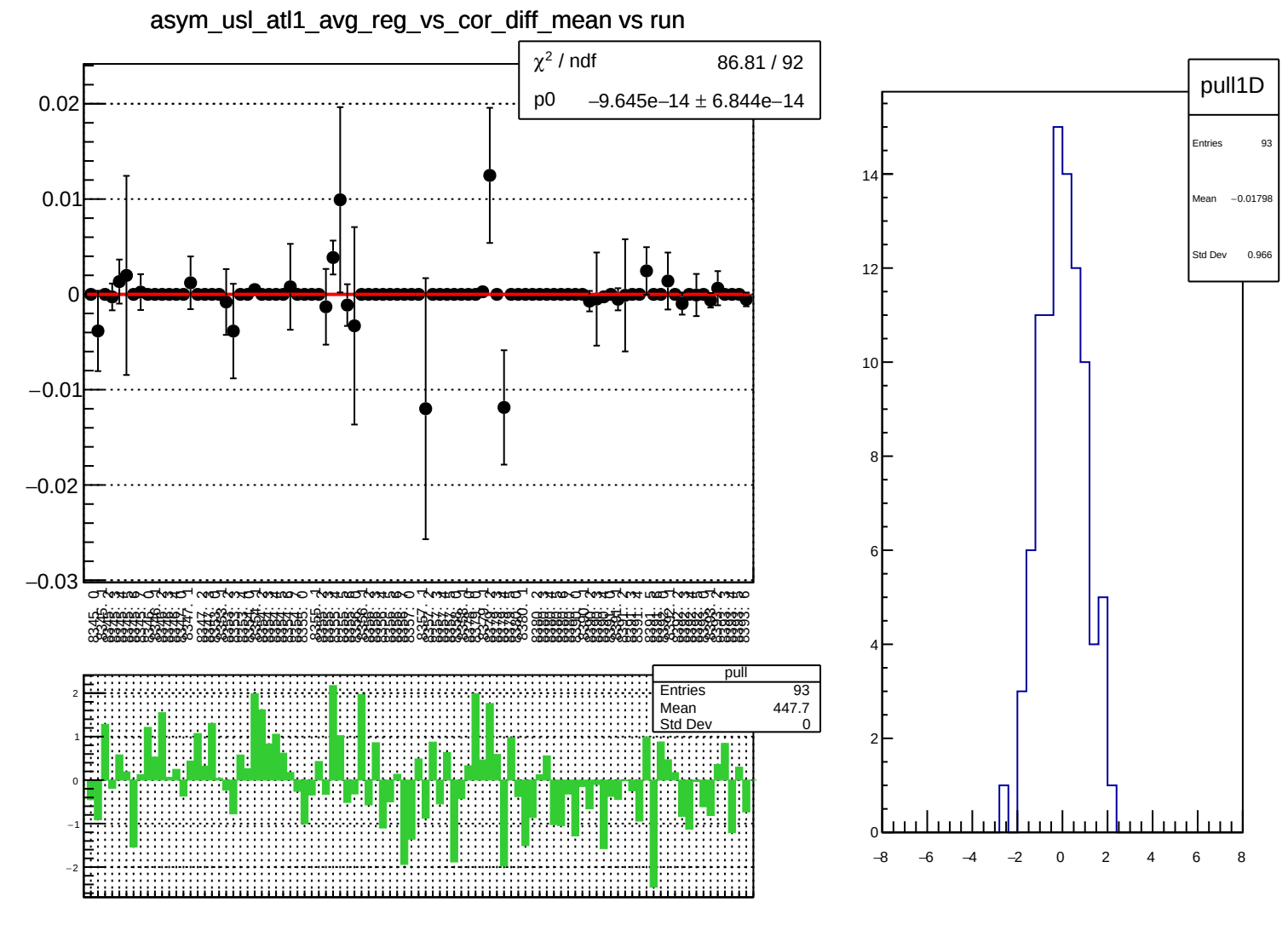

pull1D
Entries 93
Mean −0.05168
Std Dev 0.9674
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

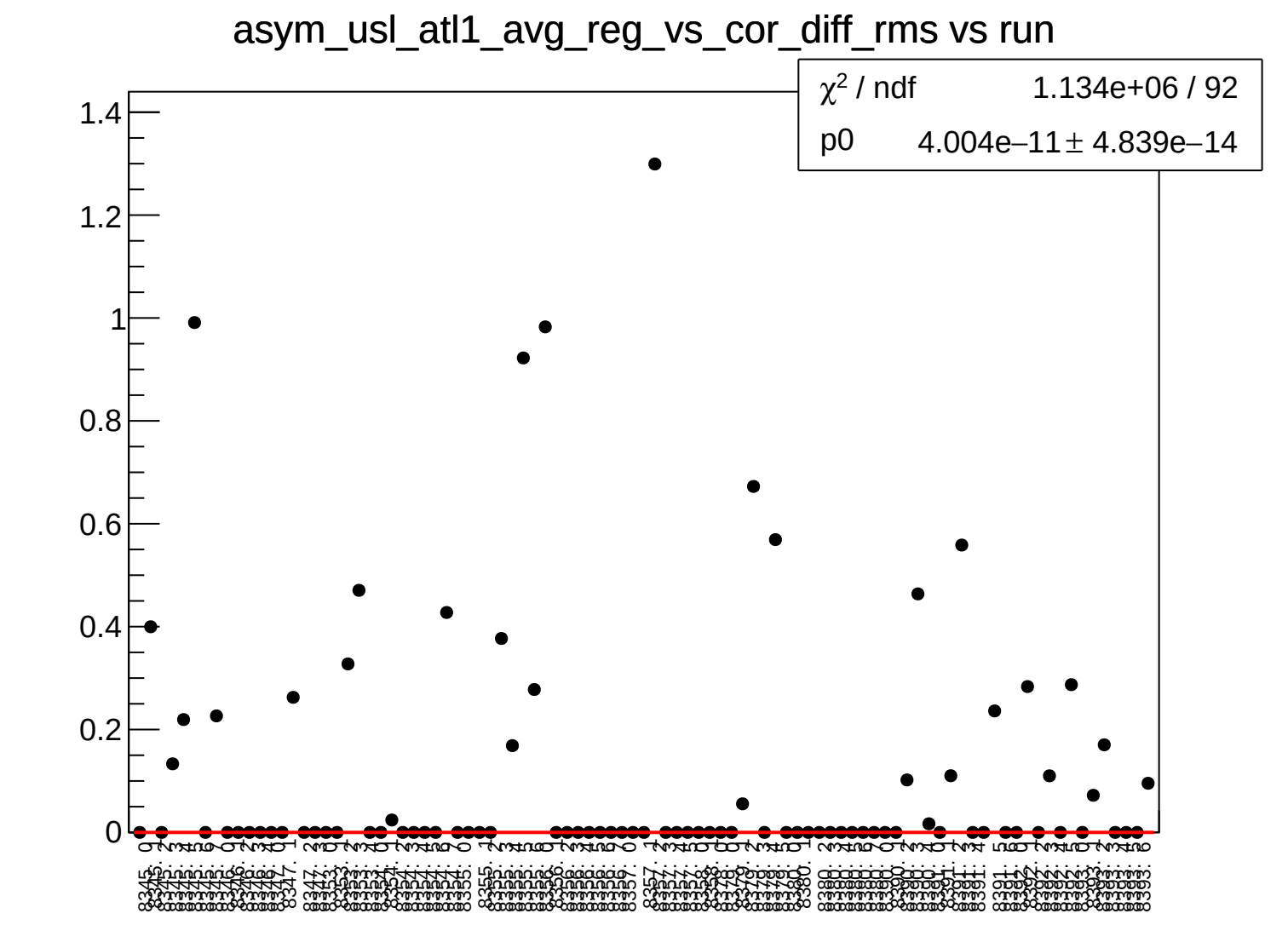

asym_usl_atl1_avg_eigen_dit_correction_rms vs run
χ² / ndf 4.595e+04 / 92
p0 547.2 ± 0.411
700
650
600
550
500
450
400

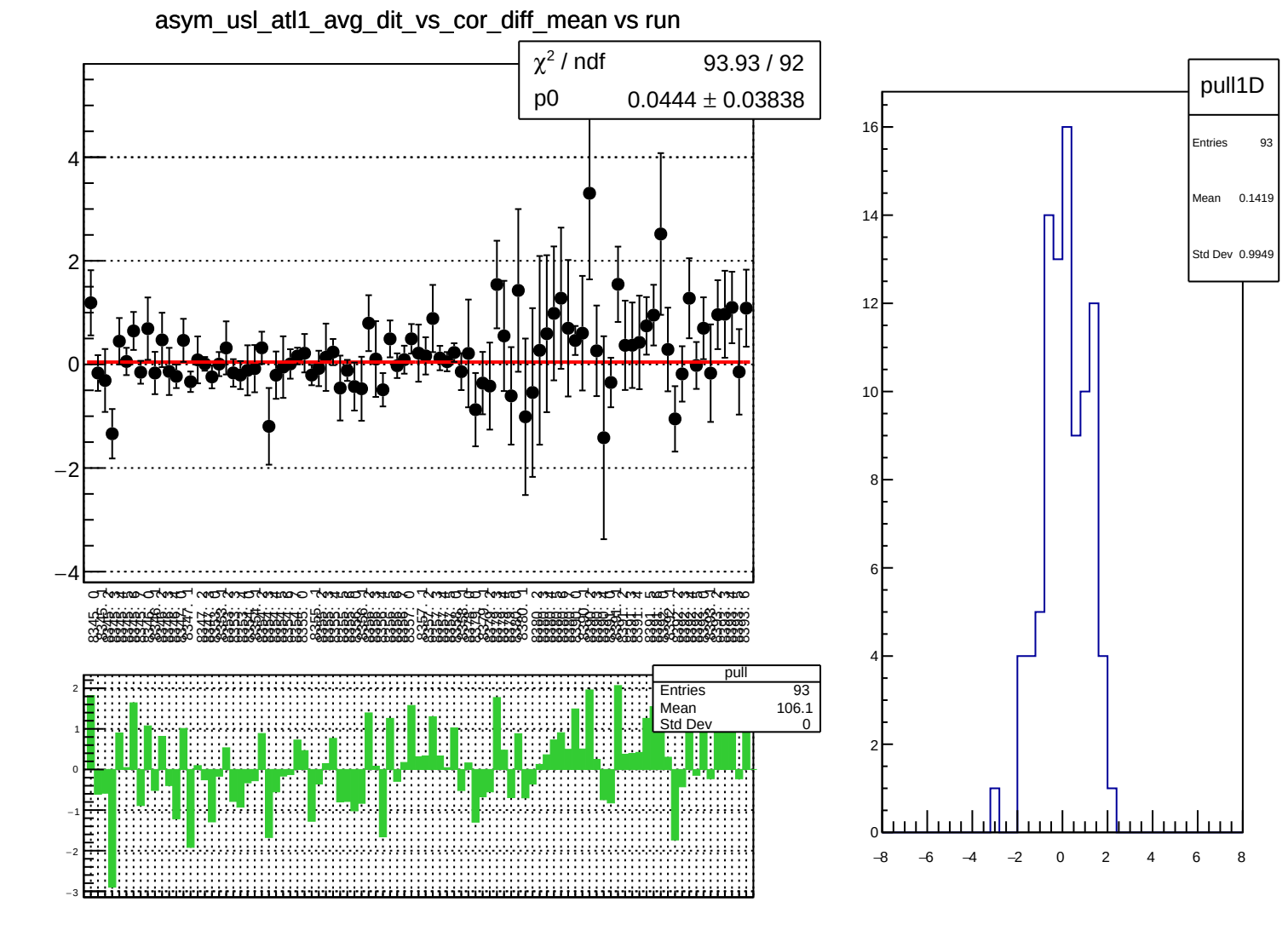

asym_usl_atl1_avg_mean vs run
χ² / ndf 79.99 / 92
p0 601.2 ± 1646
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −48.94
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

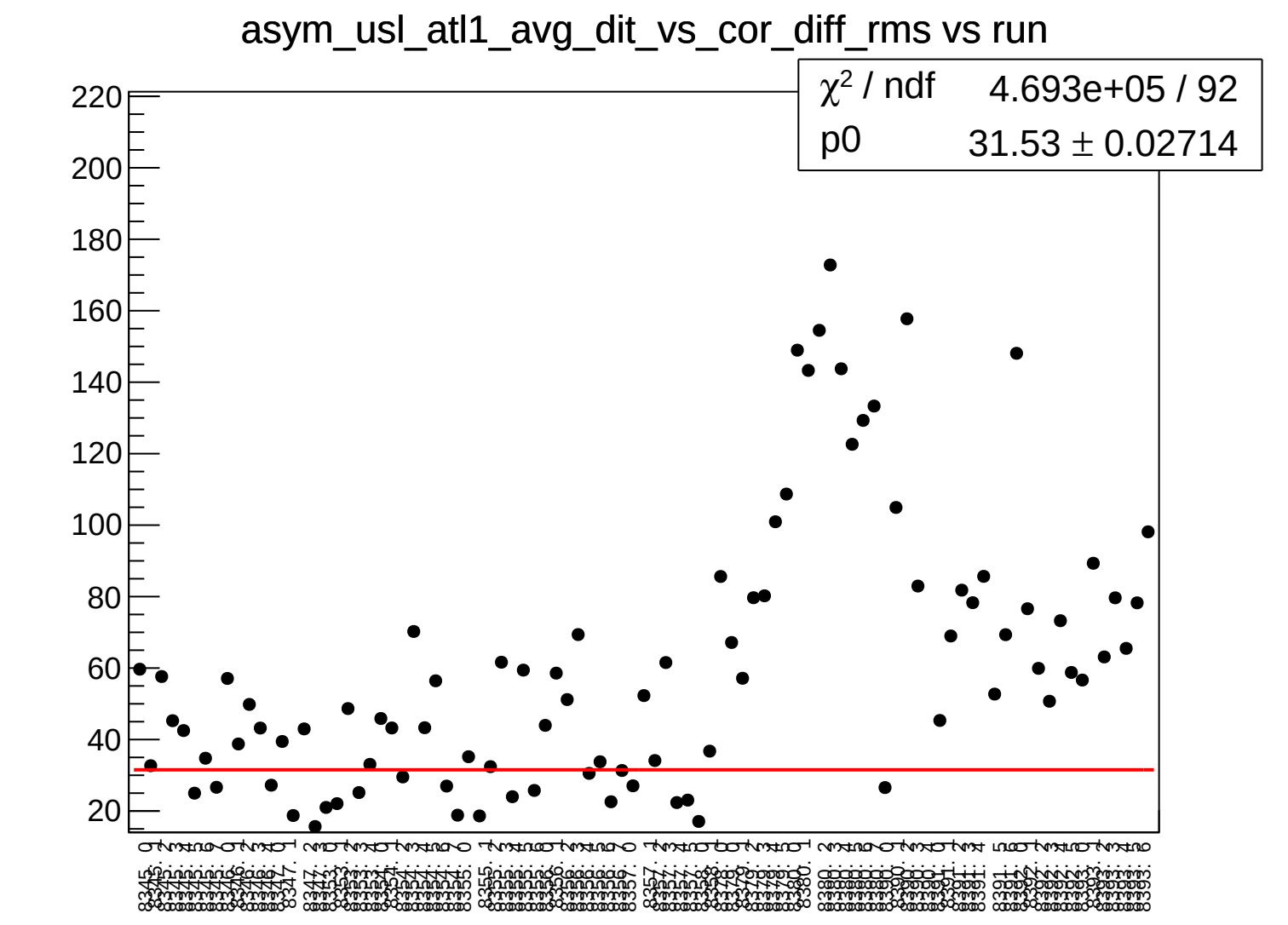

pull1D
Entries 93
Mean −0.01241
Std Dev 0.9273
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

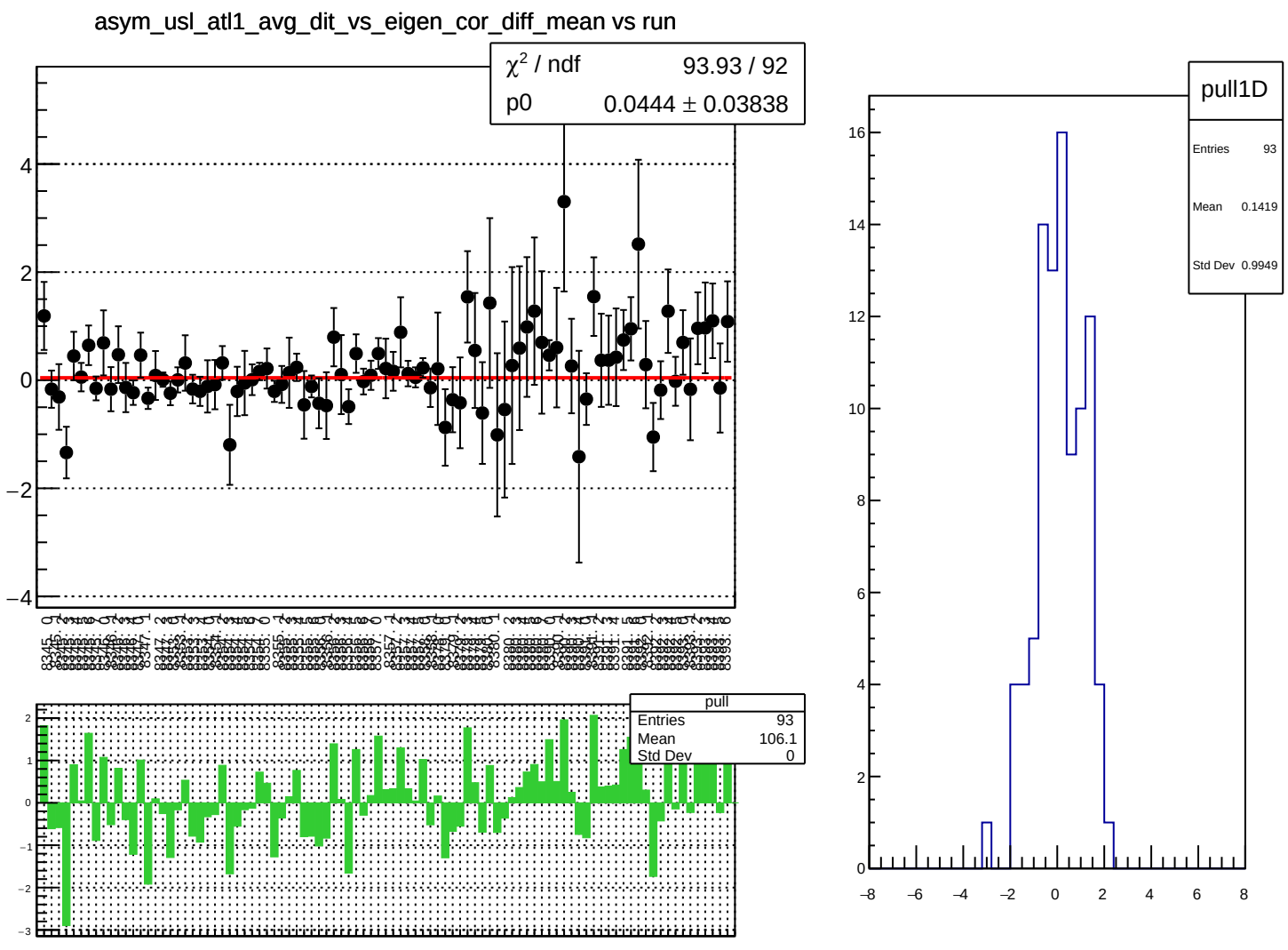

asym_usl_atl1_avg_rms vs run
χ² / ndf 2458 / 92
p0 1568 ± 1.164
1650
1600
1550
1500
1450

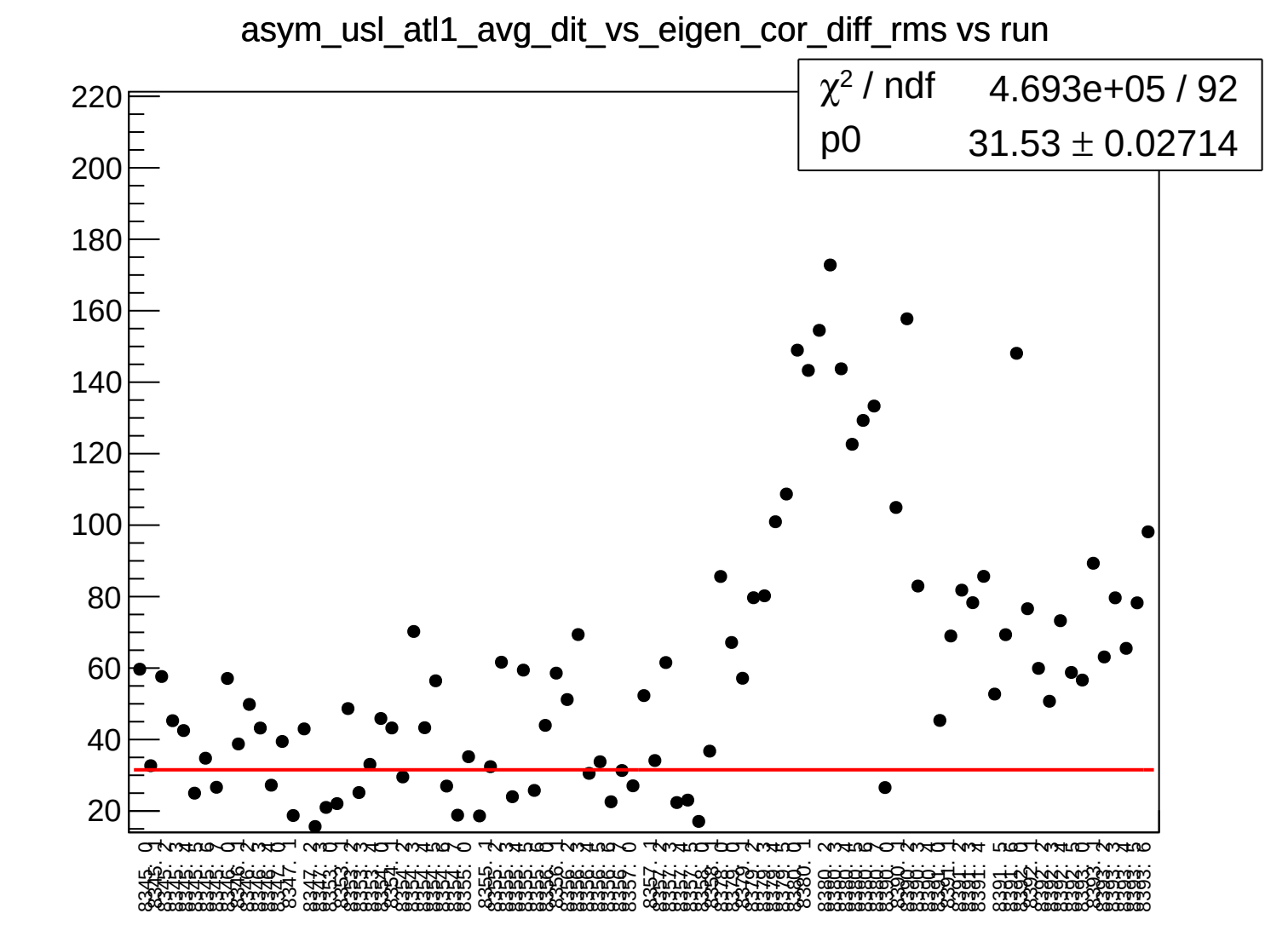

asym_usl_atl1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 86.81 / 92
p0 −9.645e−14 ± 6.844e−14
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 93
Mean 447.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.01798
Std Dev 0.966
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

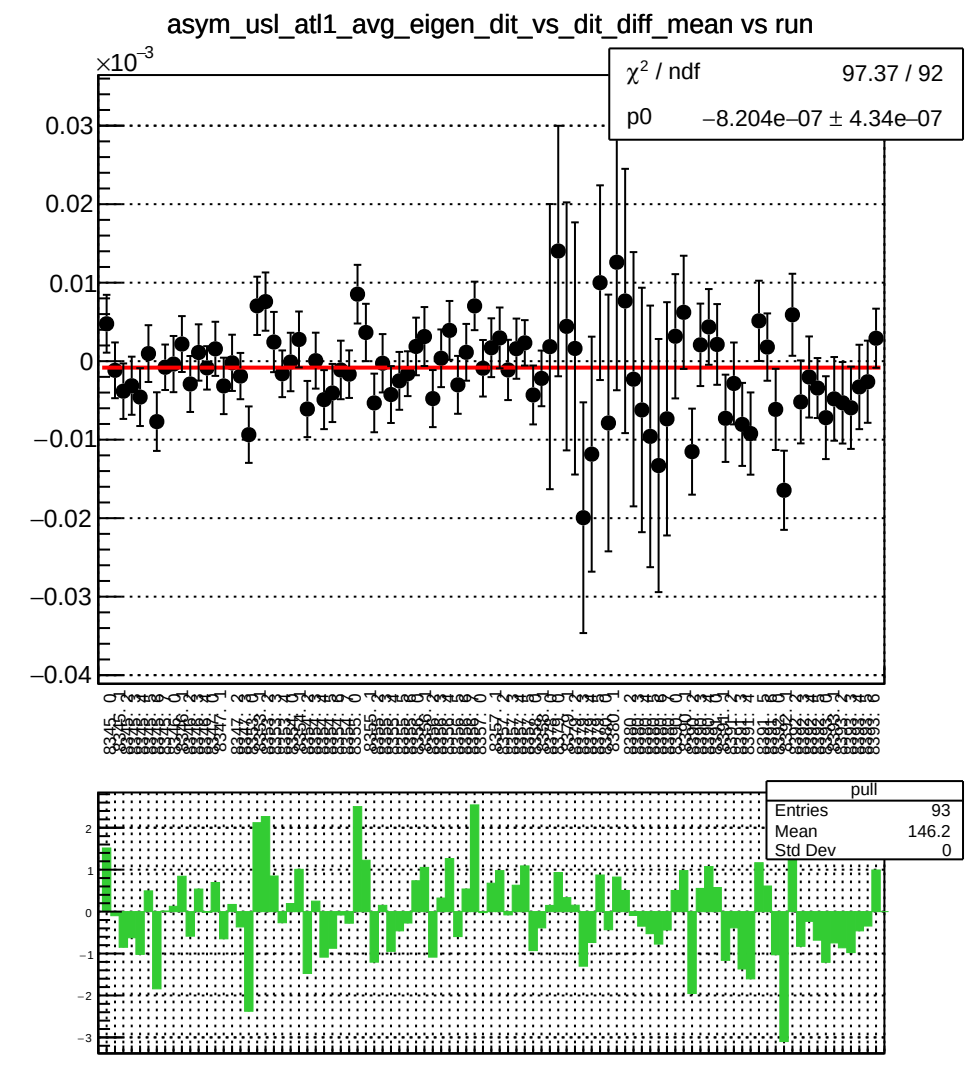

asym_usl_atl1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.134e+06 / 92
p0 4.004e−11 ± 4.839e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

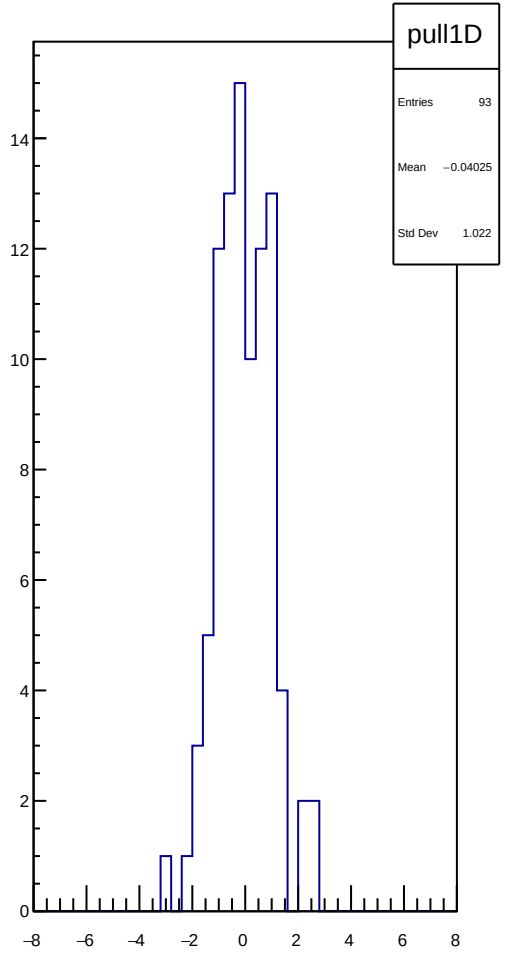

asym_usl_atl1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 93.93 / 92
p0 0.0444 ± 0.03838
pull
Entries 93
Mean 106.1
Std Dev 0
pull1D
Entries 93
Mean 0.1419
Std Dev 0.9949

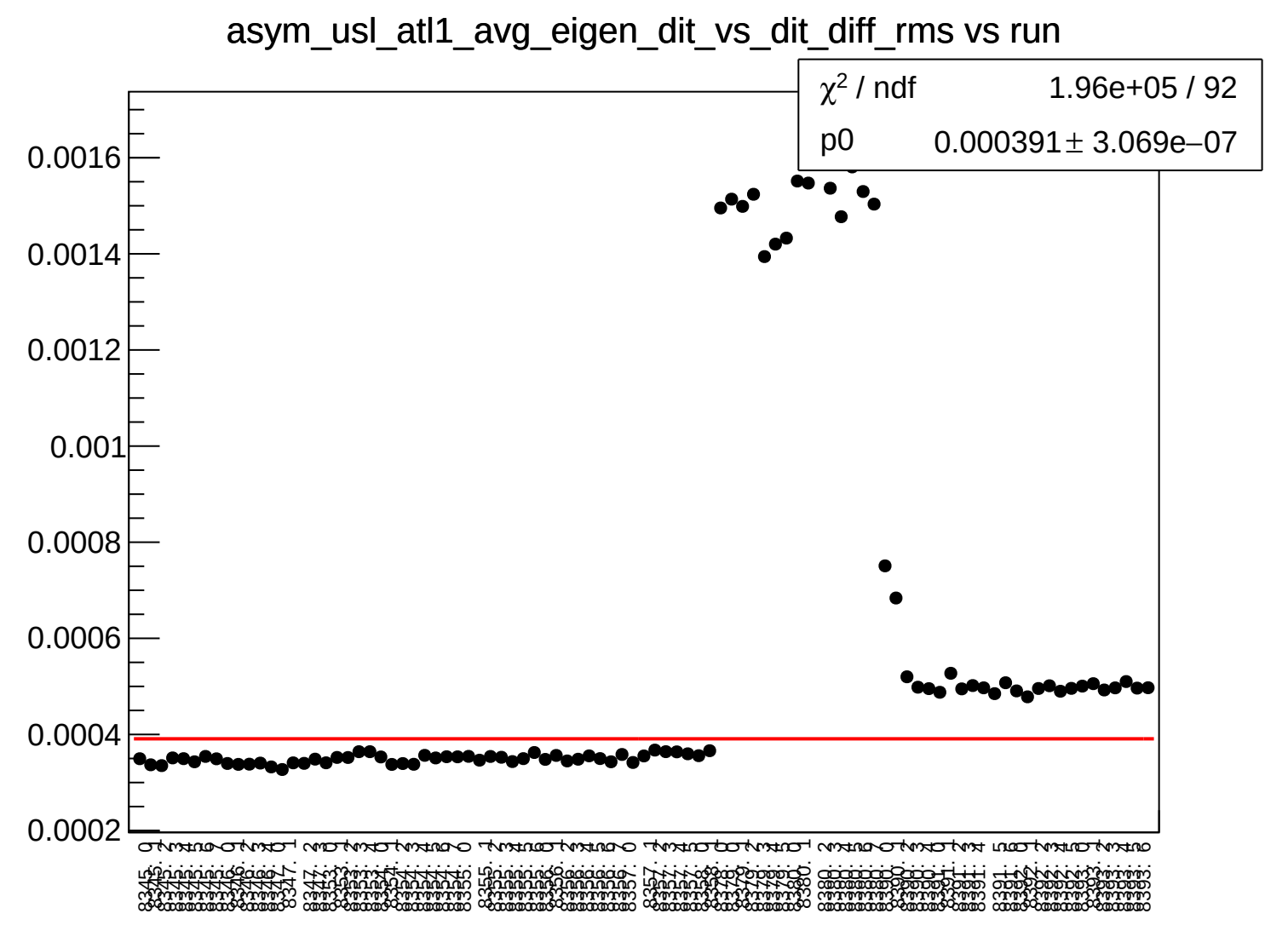

asym_usl_atl1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.693e+05 / 92
p0 31.53 ± 0.02714
220
200
180
160
140
120
100
80
60
40
20

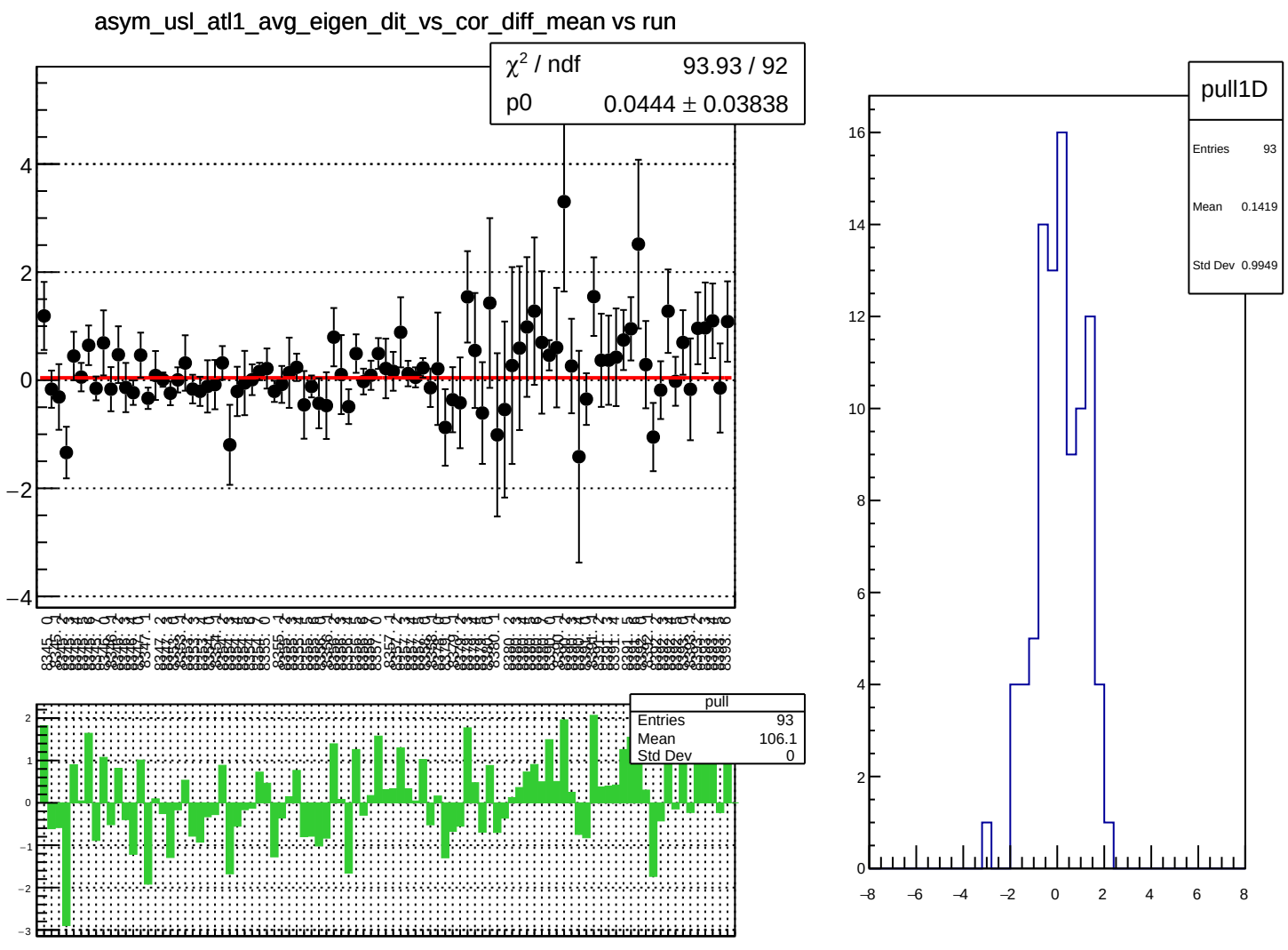

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.93 / 92
p0 0.0444 ± 0.03838
pull
Entries 93
Mean 106.1
Std Dev 0
pull1D
Entries 93
Mean 0.1419
Std Dev 0.9949

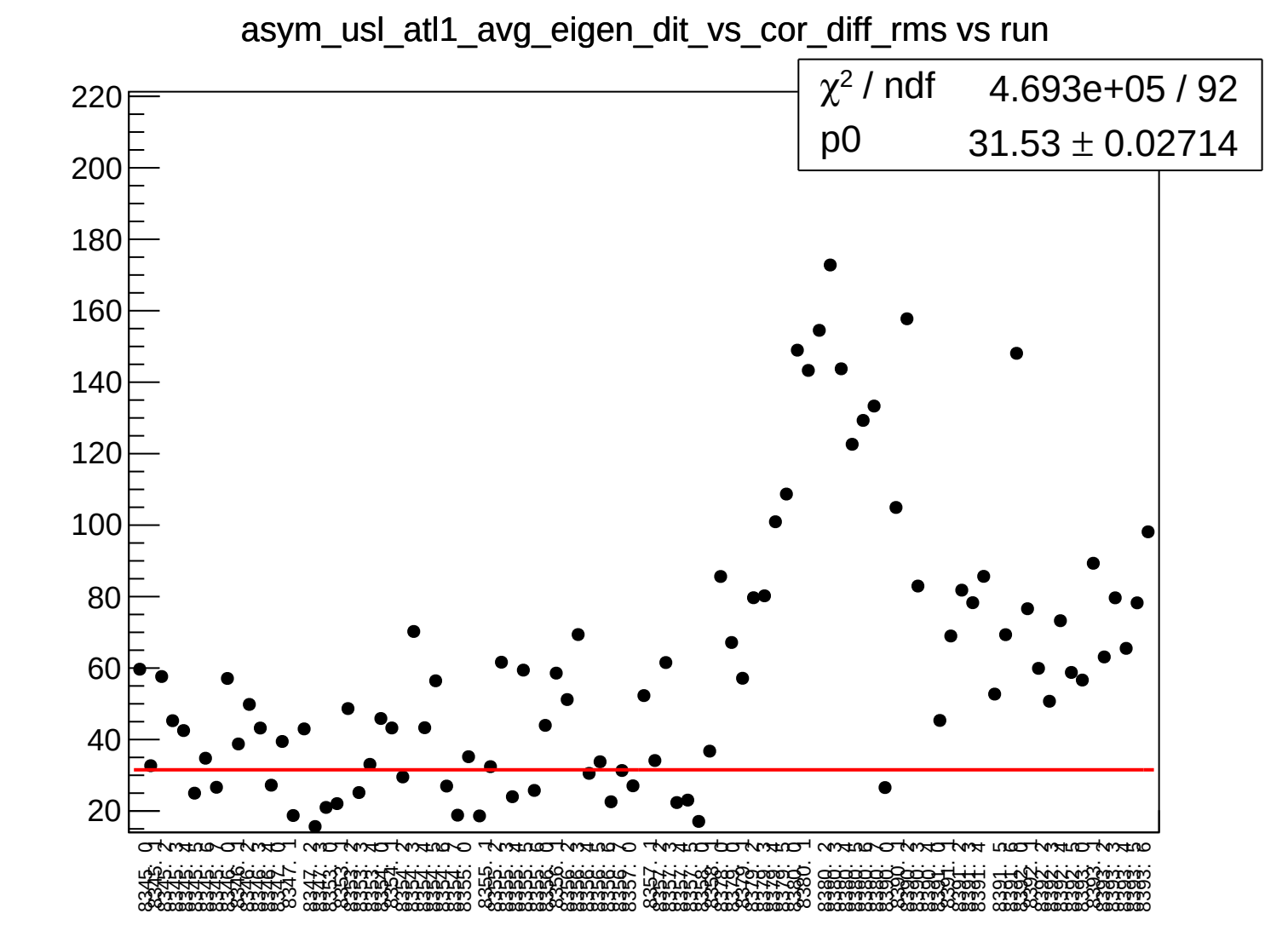

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 4.693e+05 / 92
p0 31.53 ± 0.02714
220
200
180
160
140
120
100
80
60
40
20

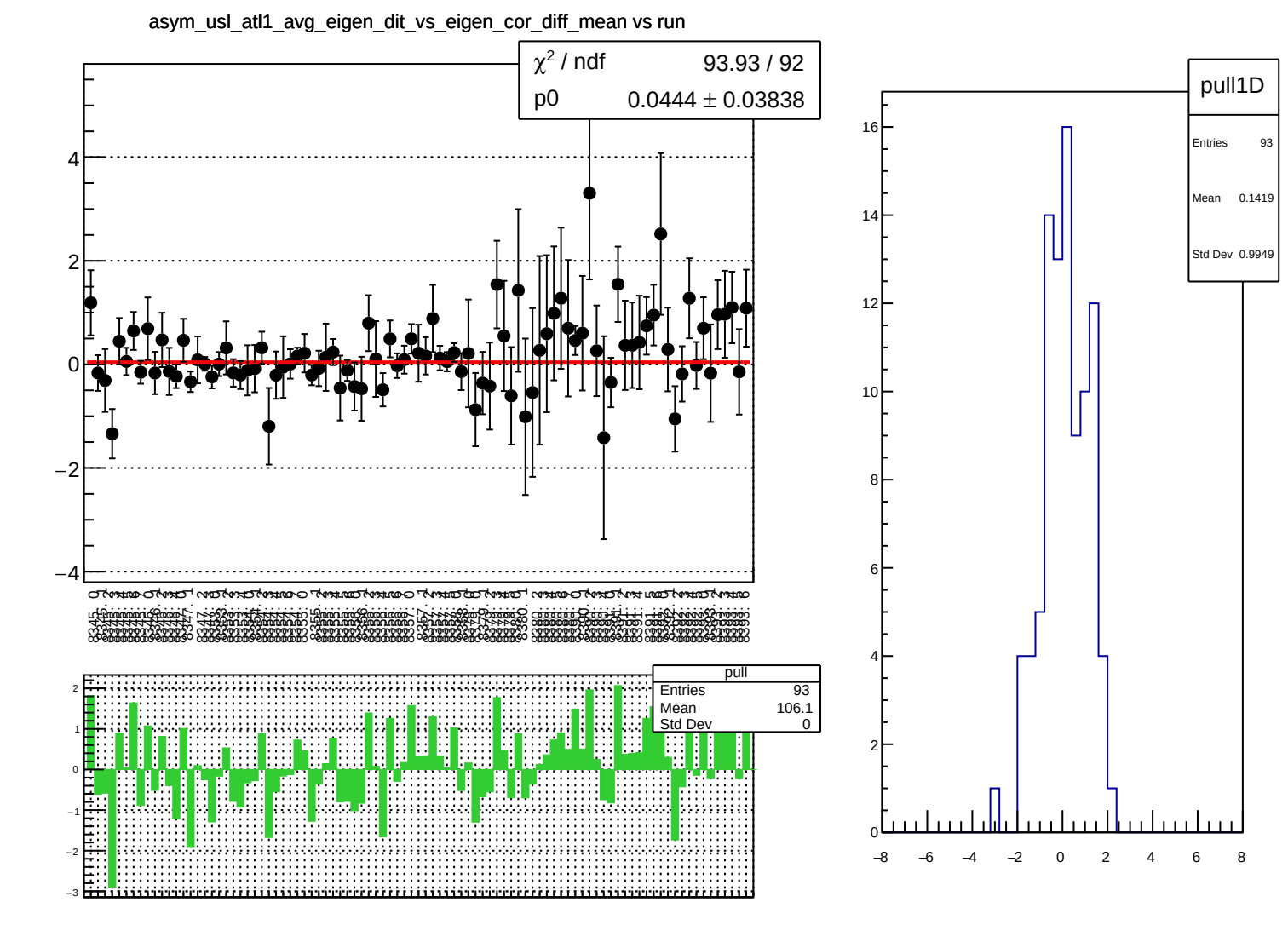

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.37 / 92
p0 −8.204e−07 ± 4.34e−07
pull
Entries 93
Mean 146.2
Std Dev 0

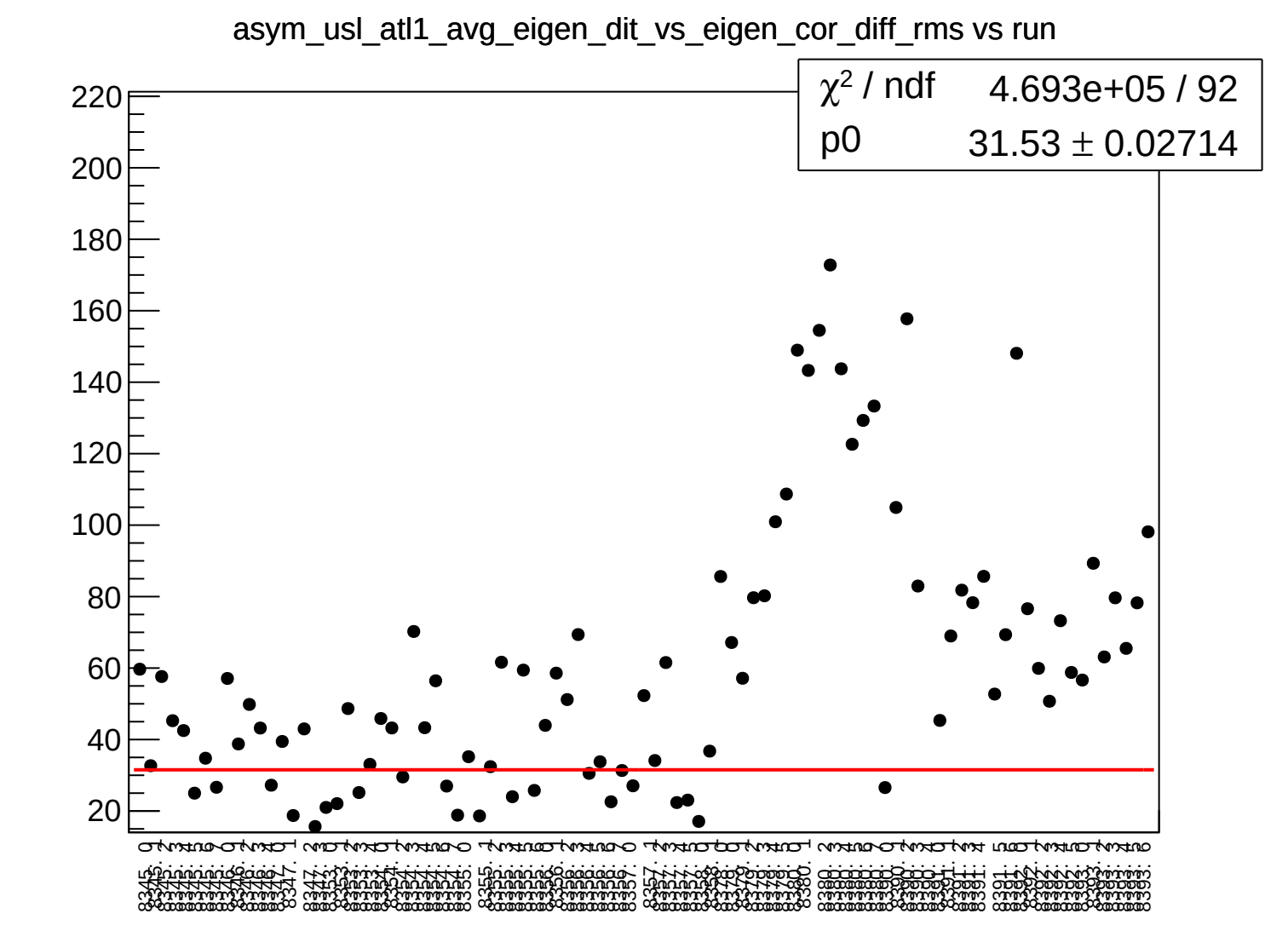

pull1D
Entries 93
Mean −0.04025
Std Dev 1.022

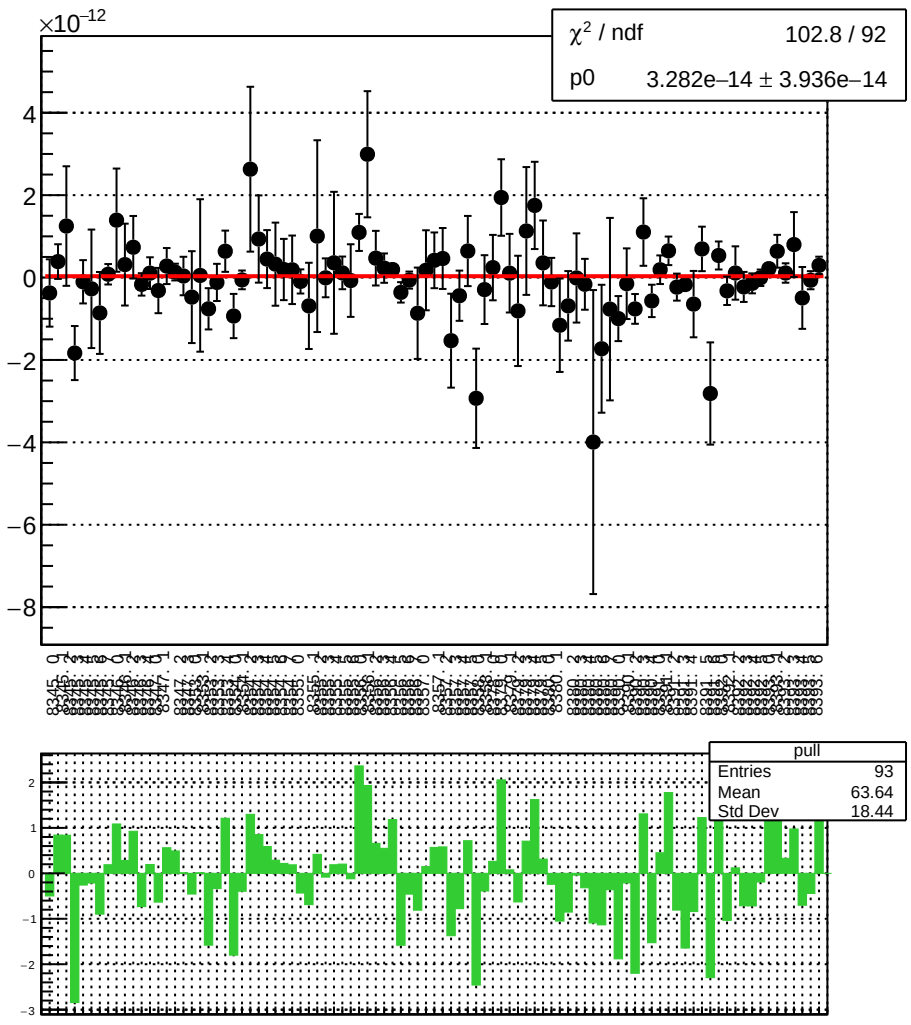

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.96e+05 / 92
p0 0.000391 ± 3.069e−07
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002

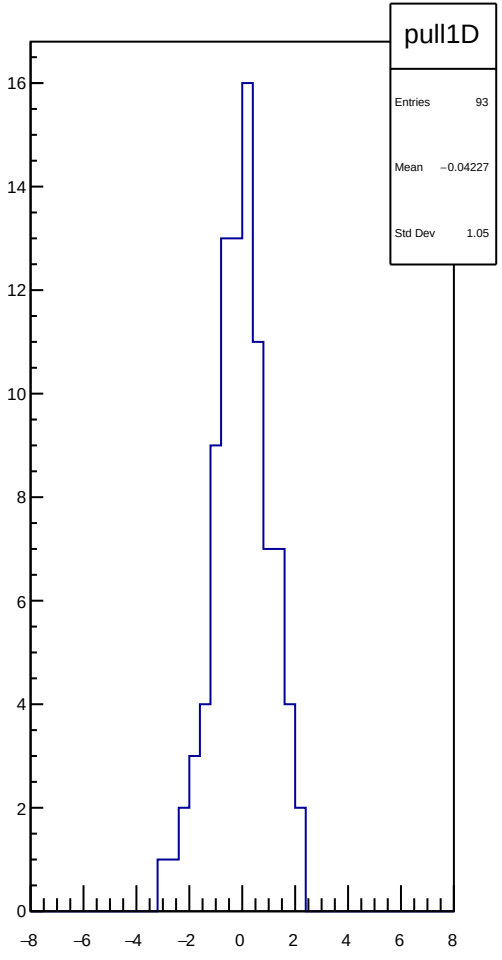

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.93 / 92
p0 0.0444 ± 0.03838
pull
Entries 93
Mean 106.1
Std Dev 0
pull1D
Entries 93
Mean 0.1419
Std Dev 0.9949

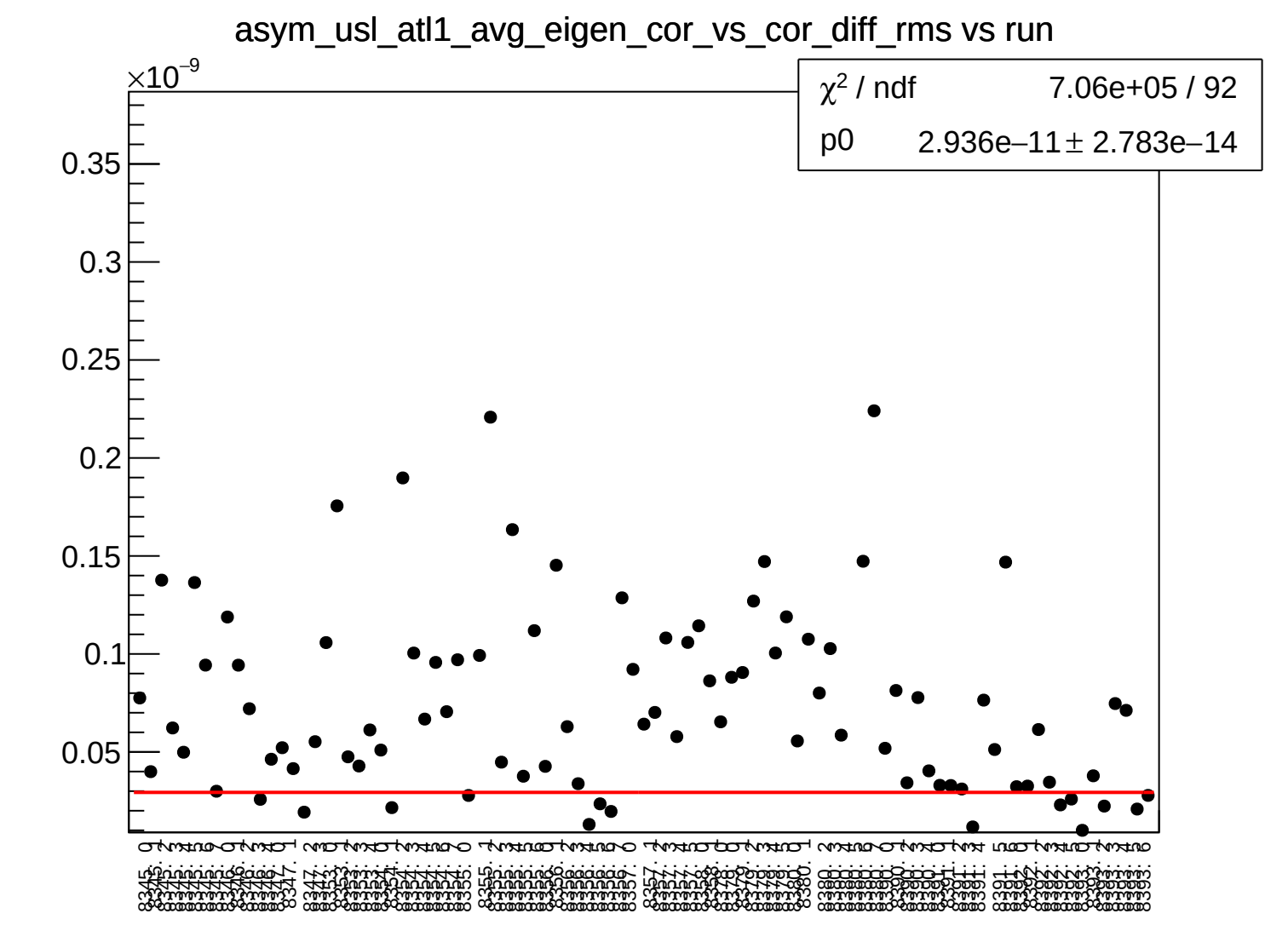

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 4.693e+05 / 92
p0 31.53 ± 0.02714
220
200
180
160
140
120
100
80
60
40
20

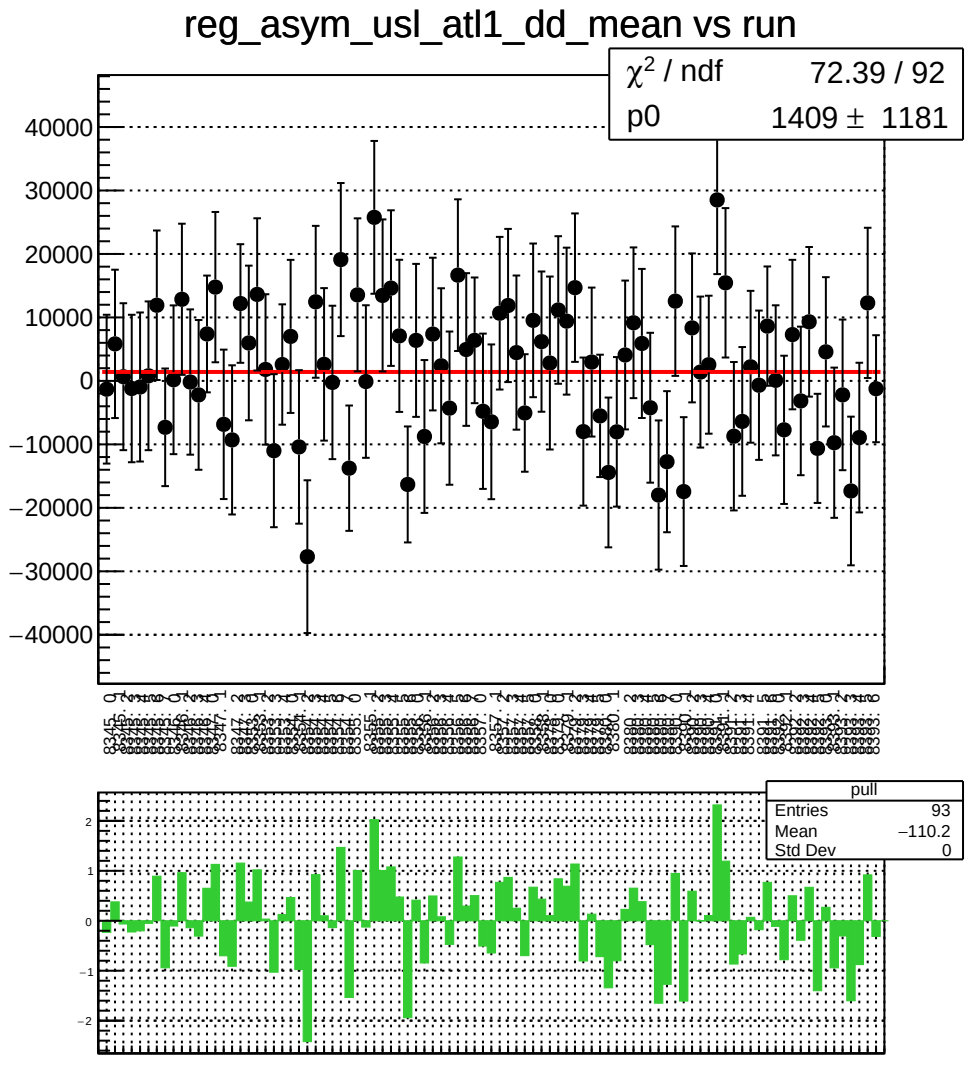

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.93 / 92
p0 0.0444 ± 0.03838
pull
Entries 93
Mean 106.1
Std Dev 0
pull1D
Entries 93
Mean 0.1419
Std Dev 0.9949

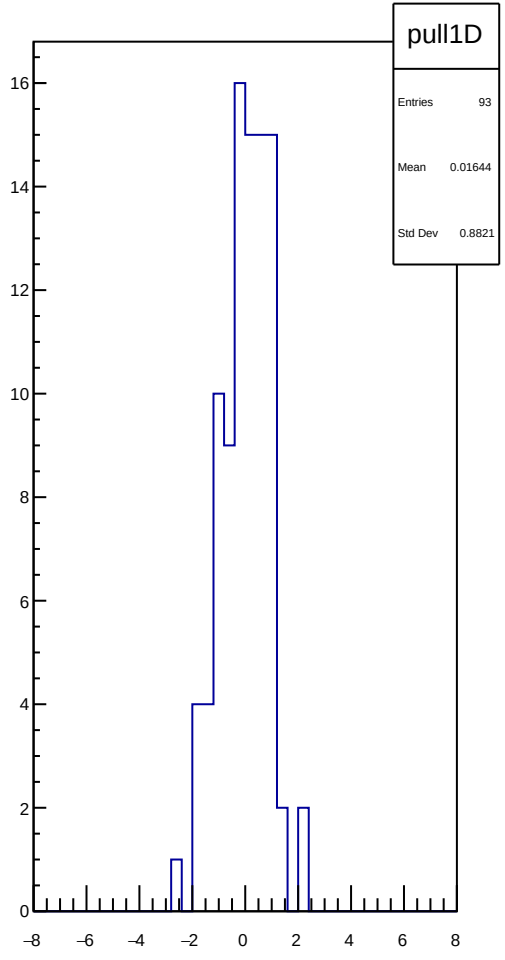

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.693e+05 / 92
p0 31.53 ± 0.02714
220
200
180
160
140
120
100
80
60
40
20

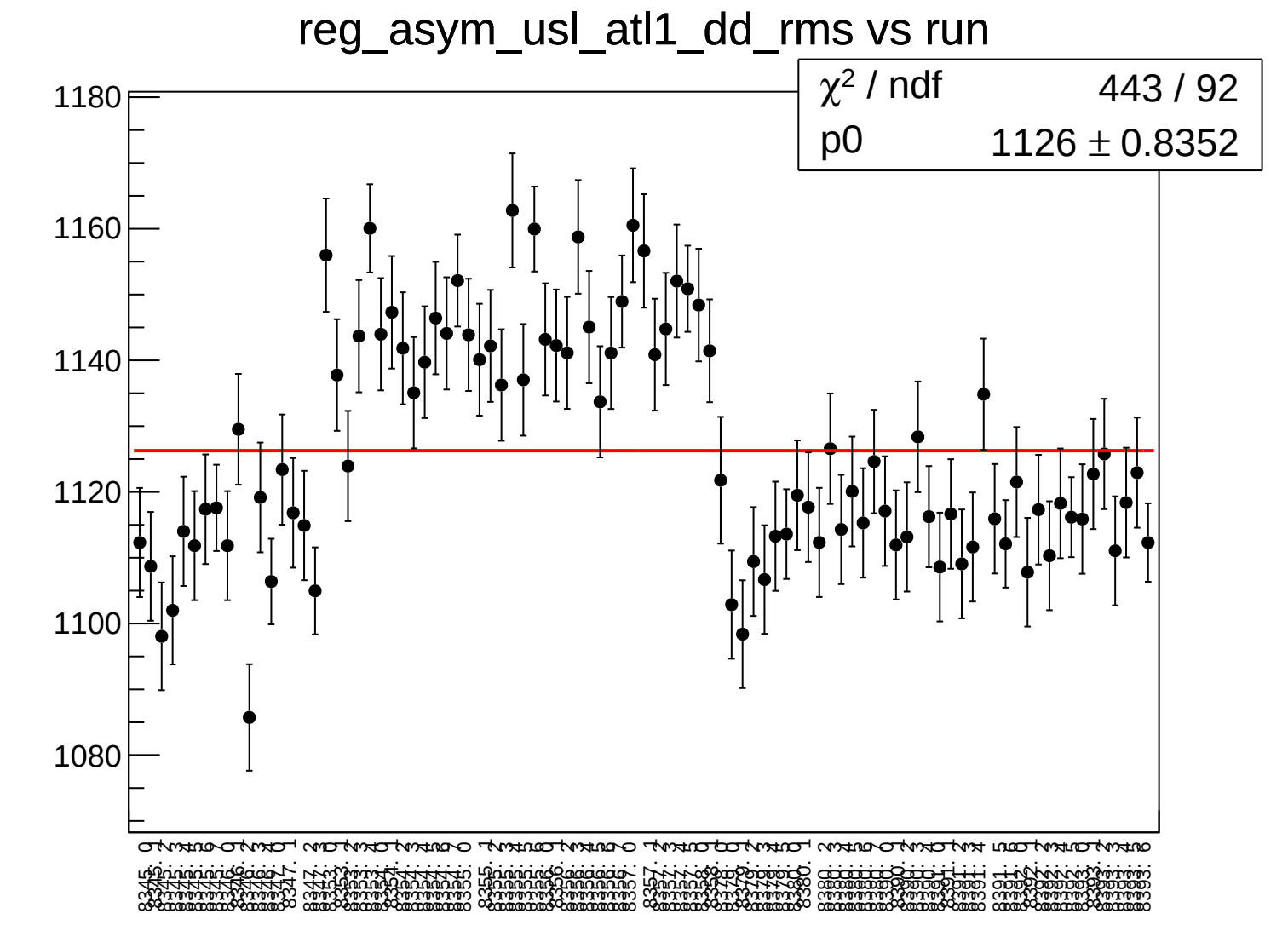

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 102.8 / 92
p0 3.282e−14 ± 3.936e−14
pull
Entries 93
Mean 63.64
Std Dev 18.44

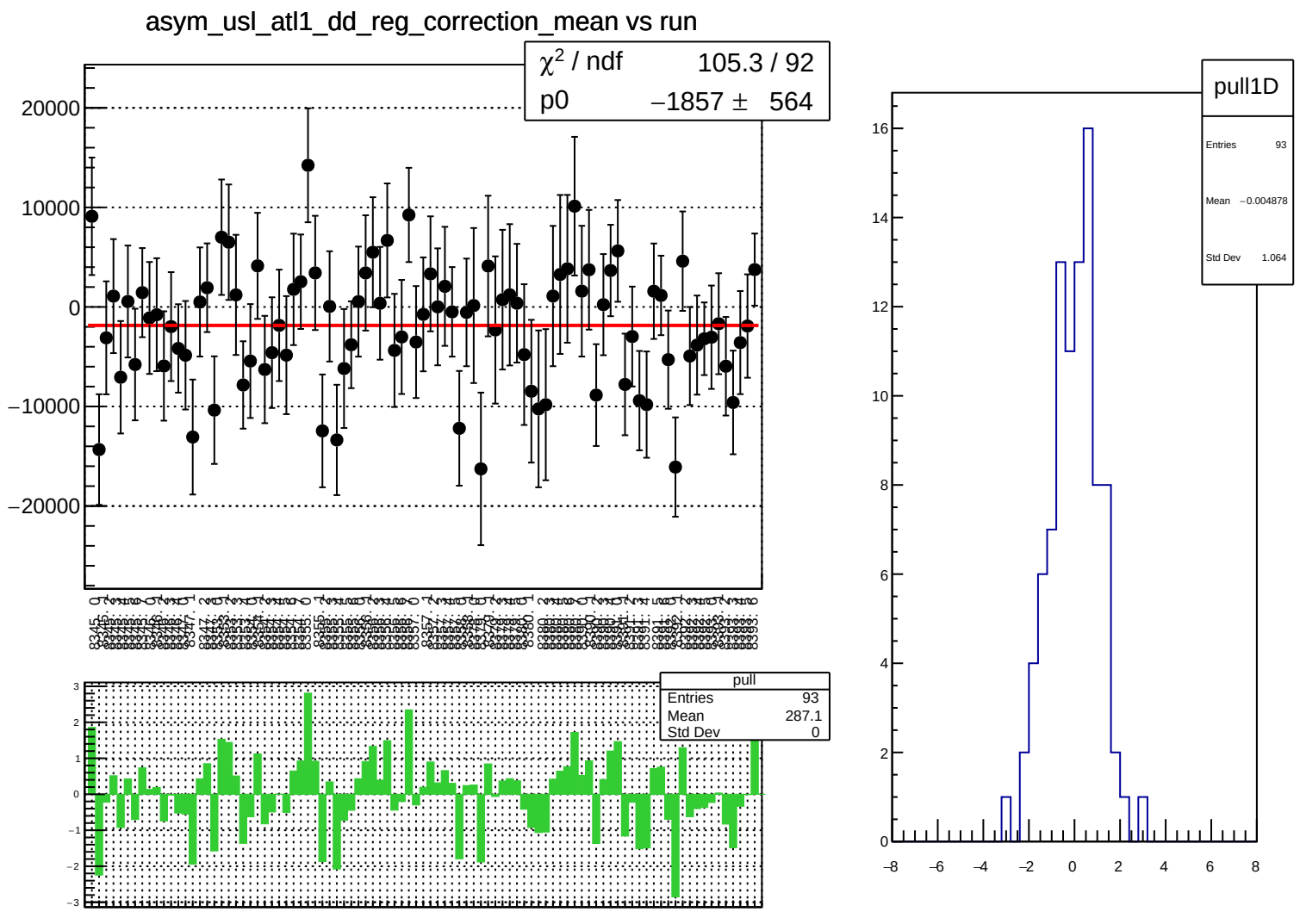

pull1D
Entries 93
Mean −0.04227
Std Dev 1.05

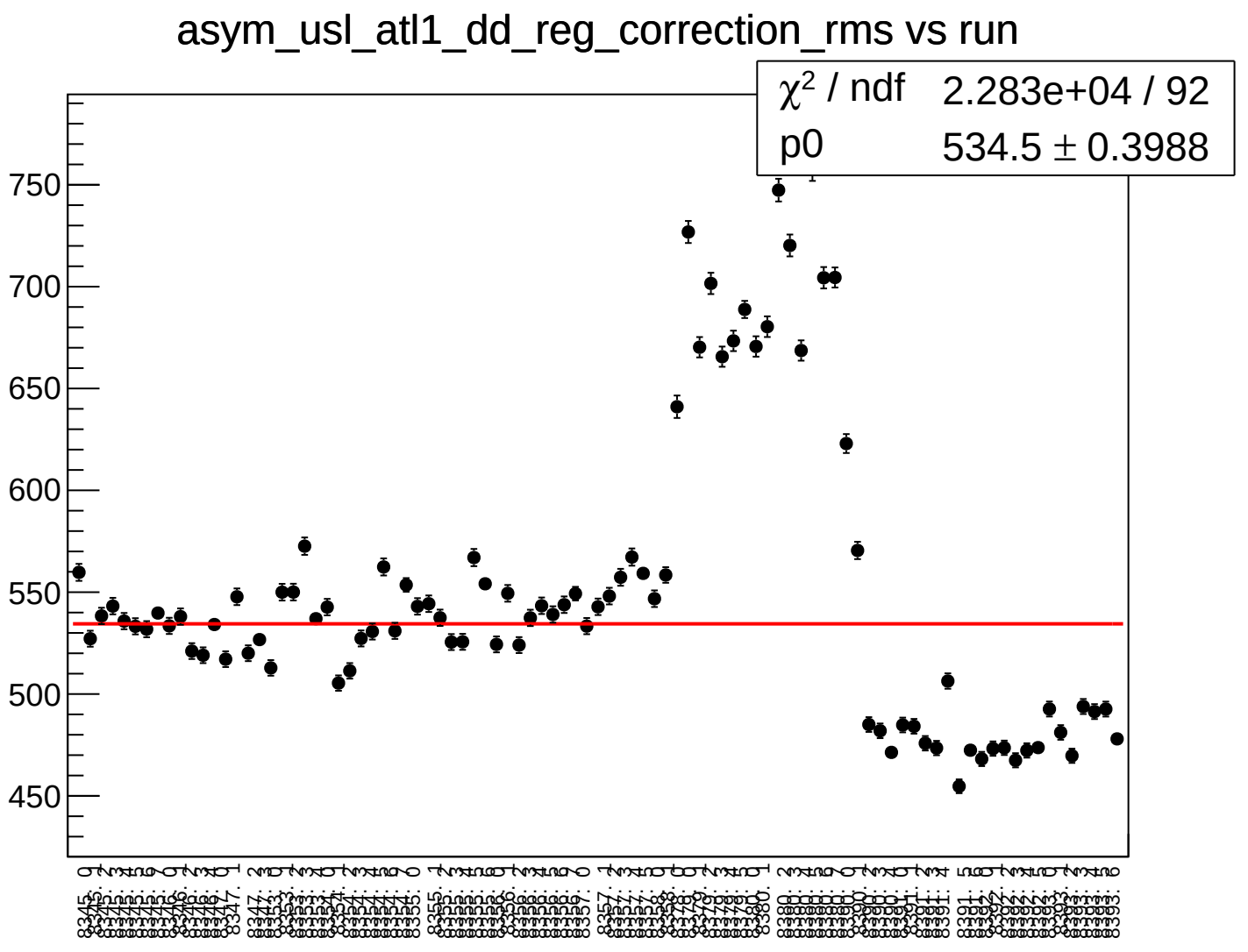

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.06e+05 / 92
p0 2.936e−11 ± 2.783e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

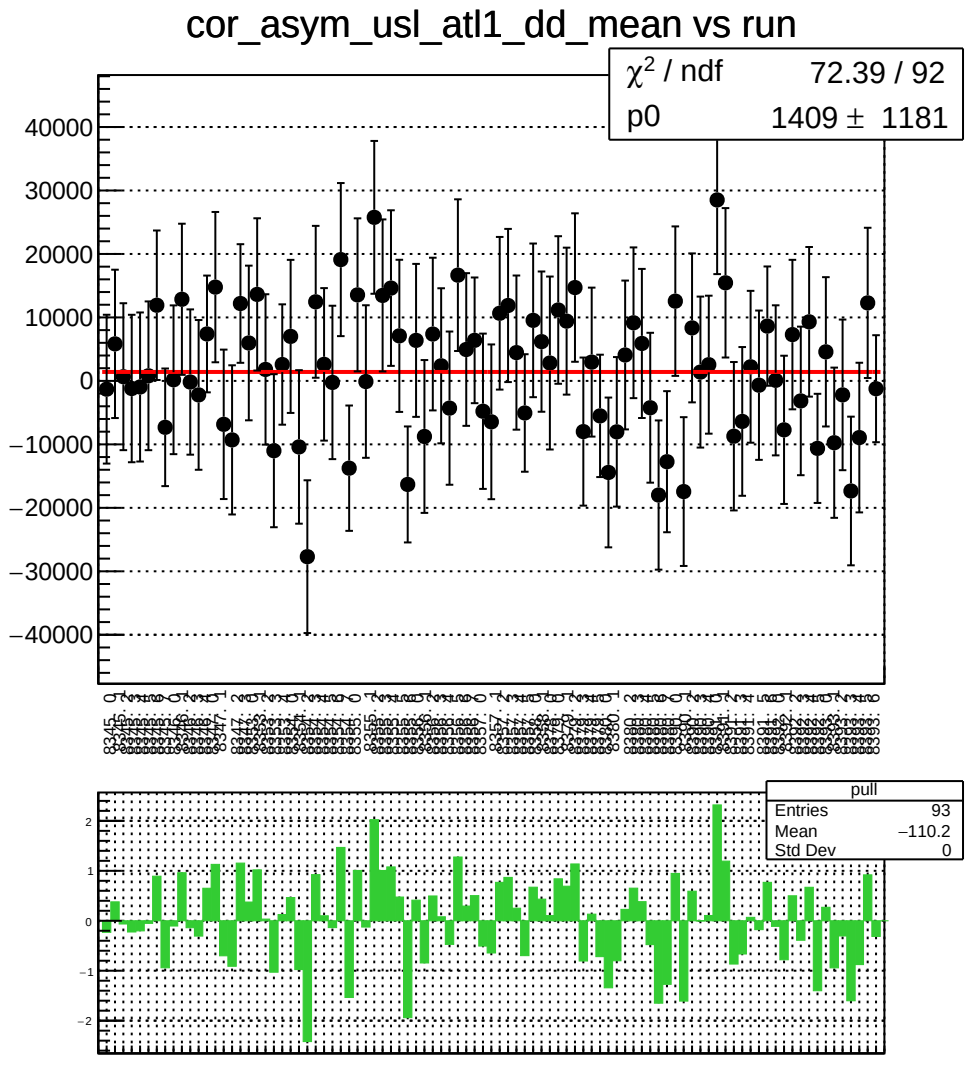

reg_asym_usl_atl1_dd_mean vs run
χ² / ndf 72.39 / 92
p0 1409 ± 1181
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean −110.2
Std Dev 0
2
1
0
−1
−2

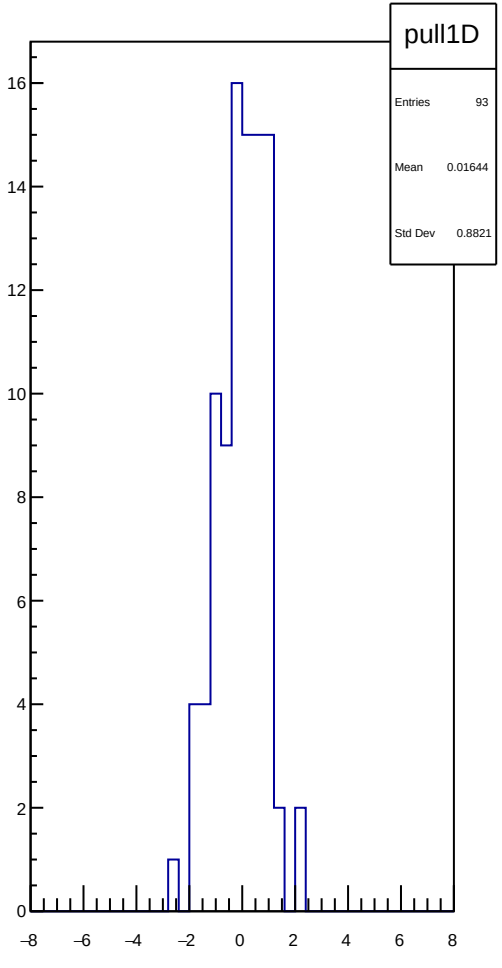

pull1D
Entries 93
Mean 0.01644
Std Dev 0.8821
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

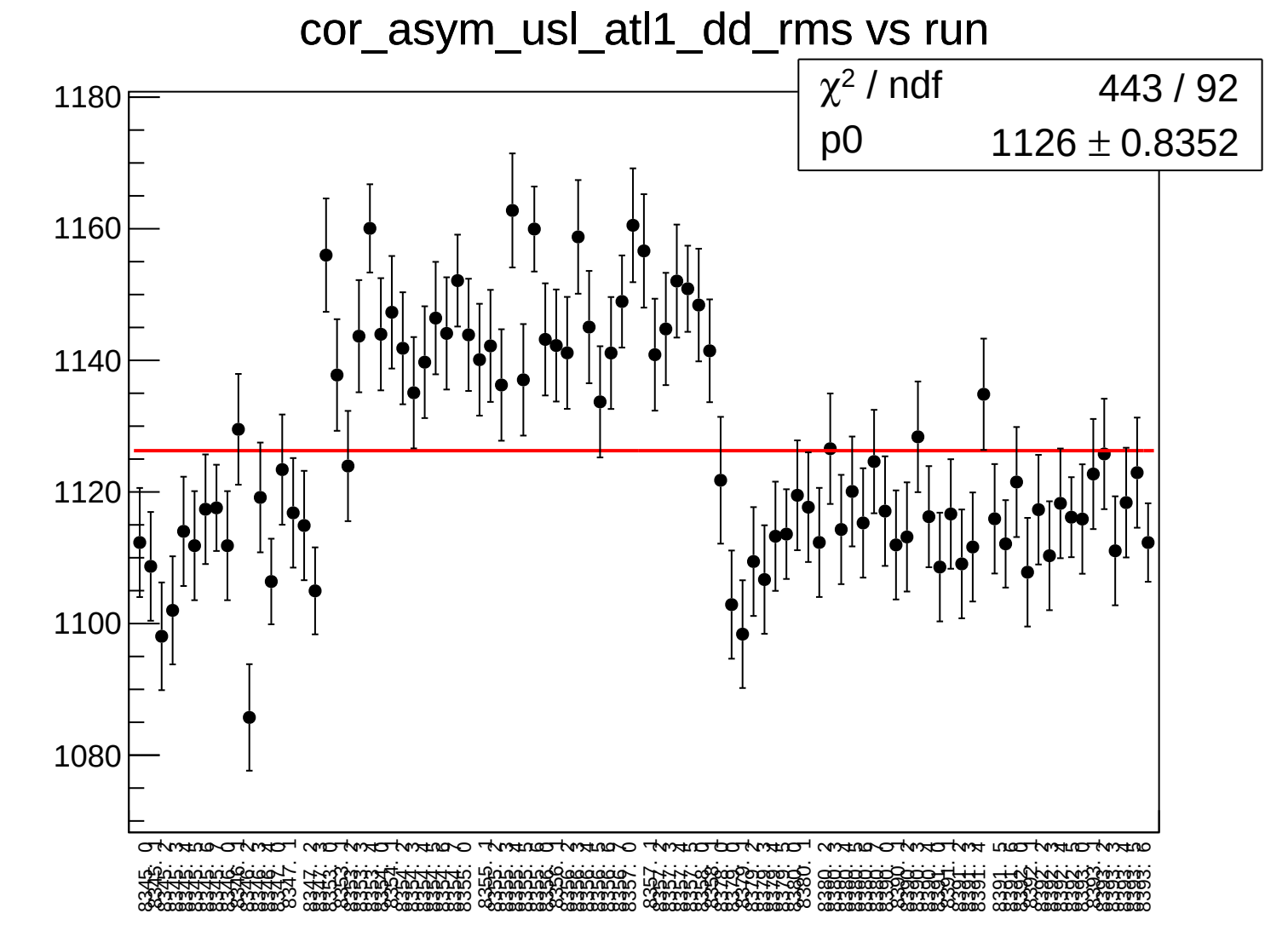

reg_asym_usl_atl1_dd_rms vs run
χ² / ndf 443 / 92
p0 1126 ± 0.8352
1180
1160
1140
1120
1100
1080

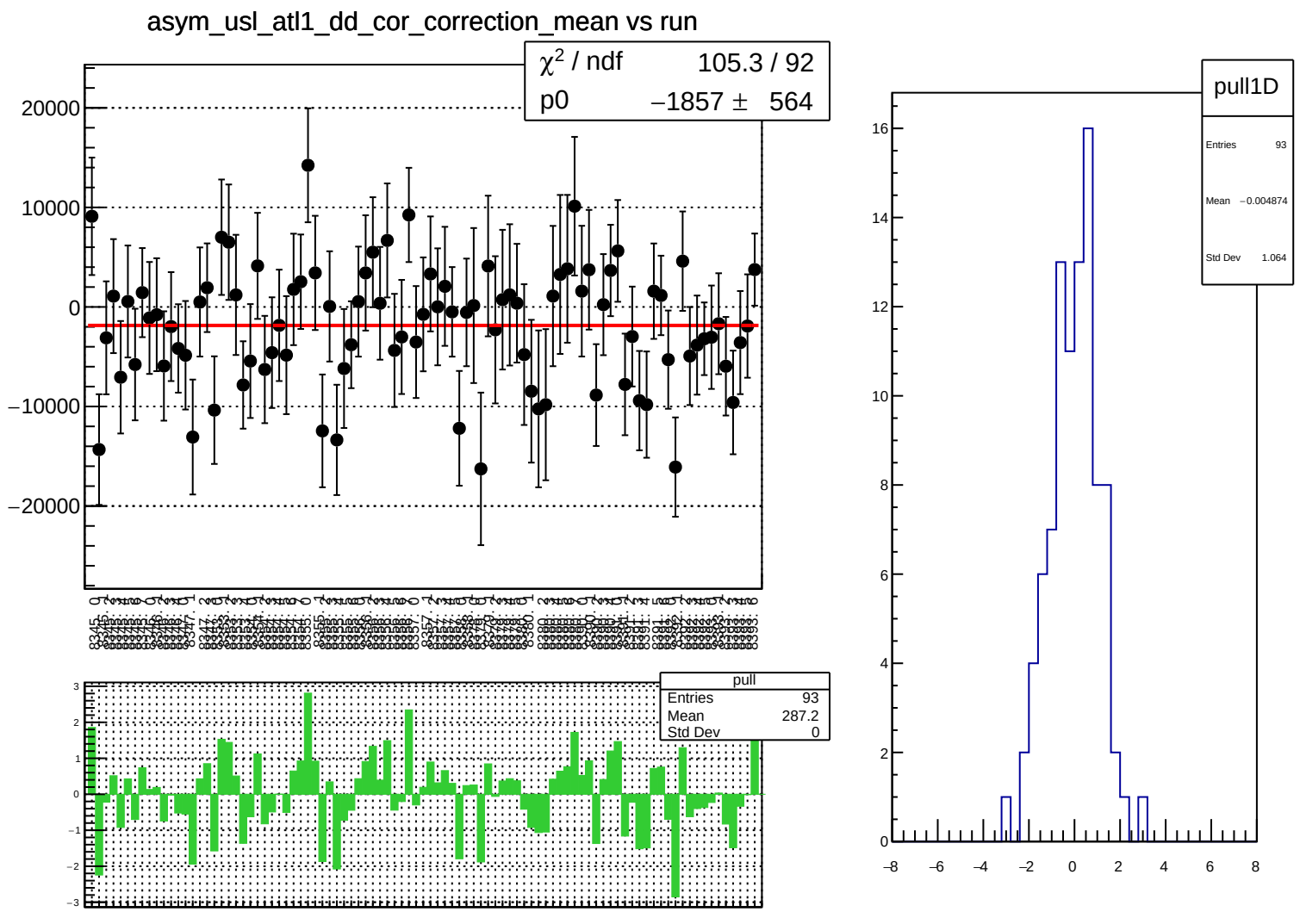

asym_usl_atl1_dd_reg_correction_mean vs run
χ² / ndf 105.3 / 92
p0 −1857 ± 564
20000
10000
0
−10000
−20000
pull
Entries 93
Mean 287.1
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.004878
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

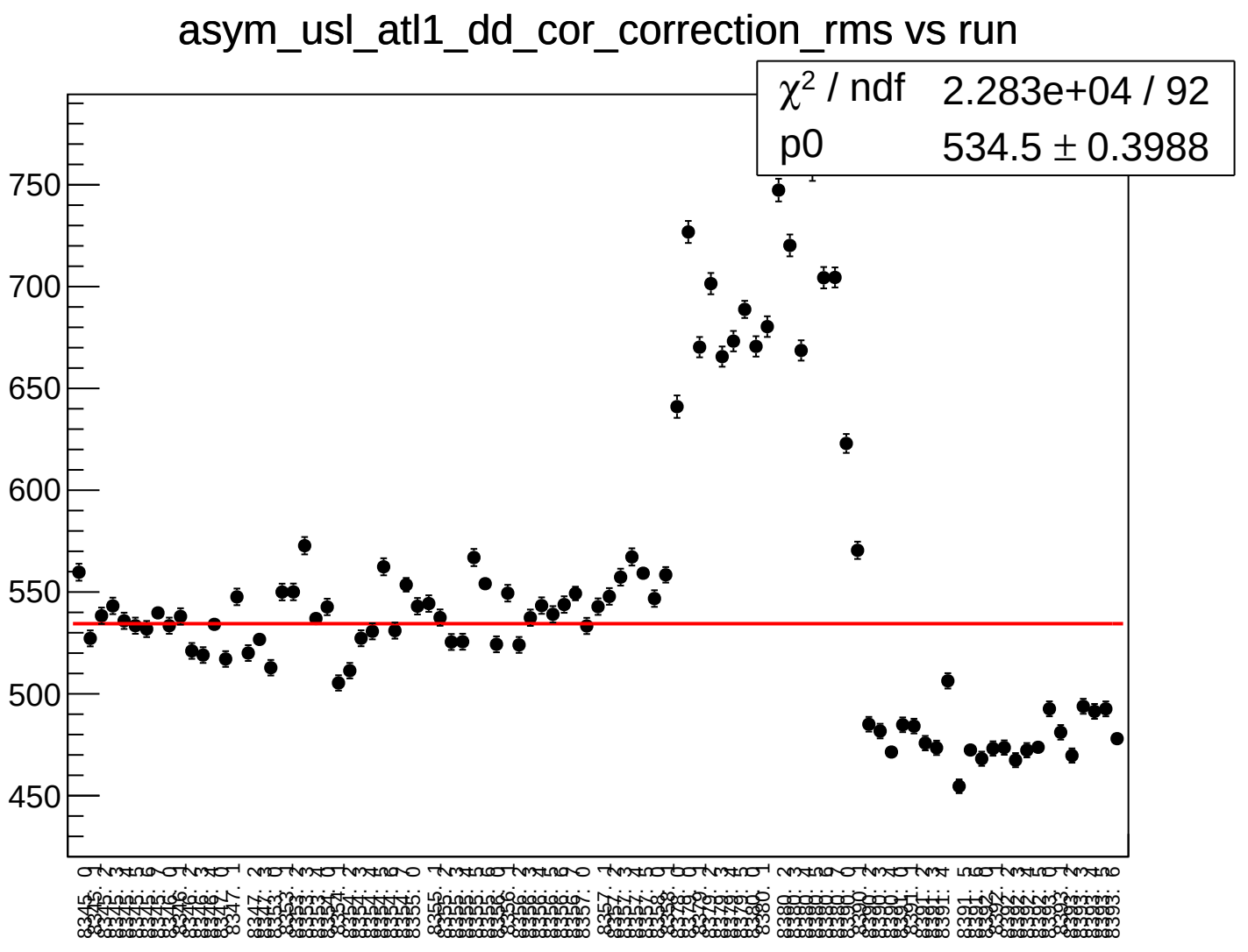

asym_usl_atl1_dd_reg_correction_rms vs run
χ² / ndf 2.283e+04 / 92
p0 534.5 ± 0.3988
750
700
650
600
550
500
450

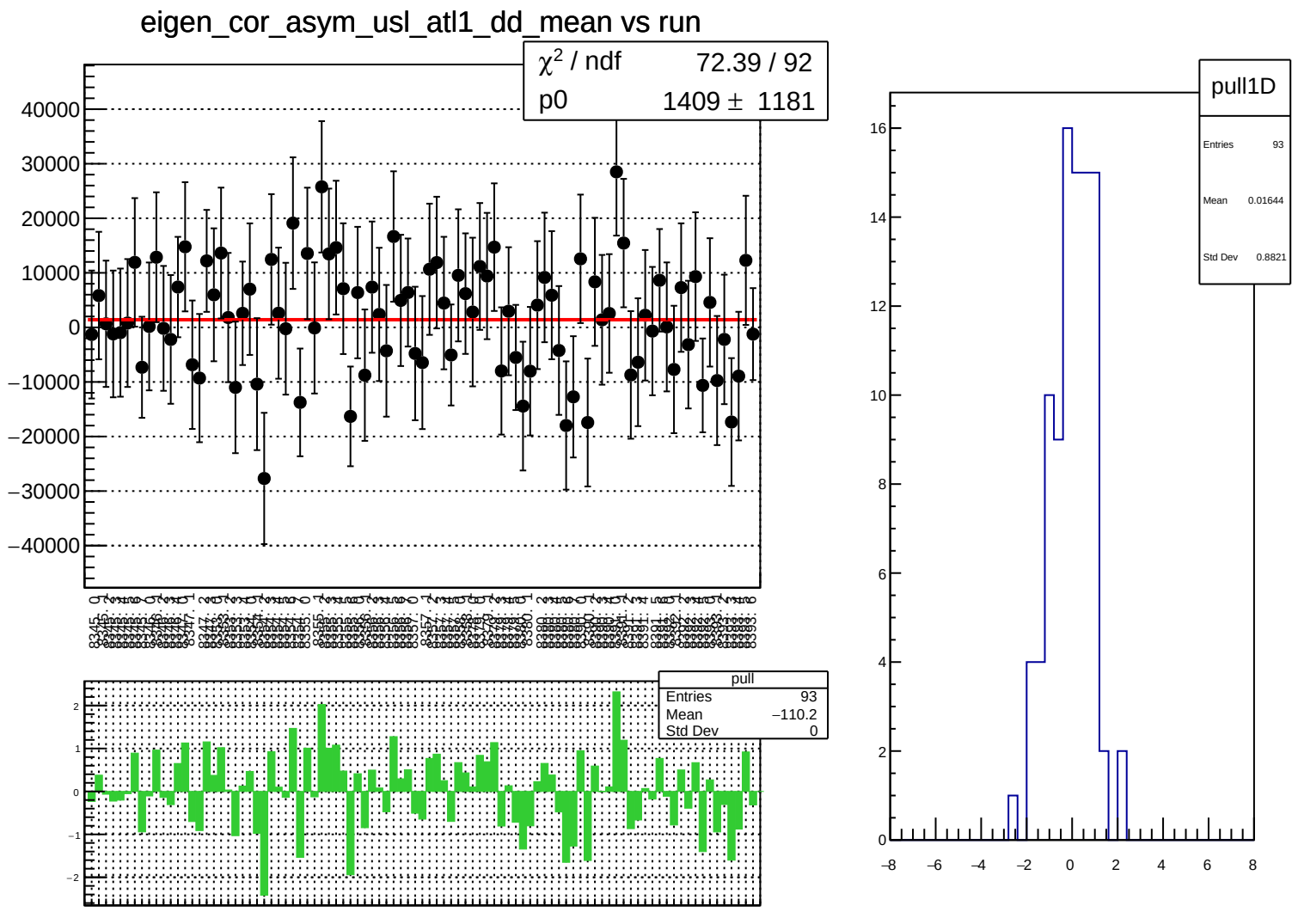

cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 72.39 / 92
p0 1409 ± 1181
pull
Entries 93
Mean −110.2
Std Dev 0

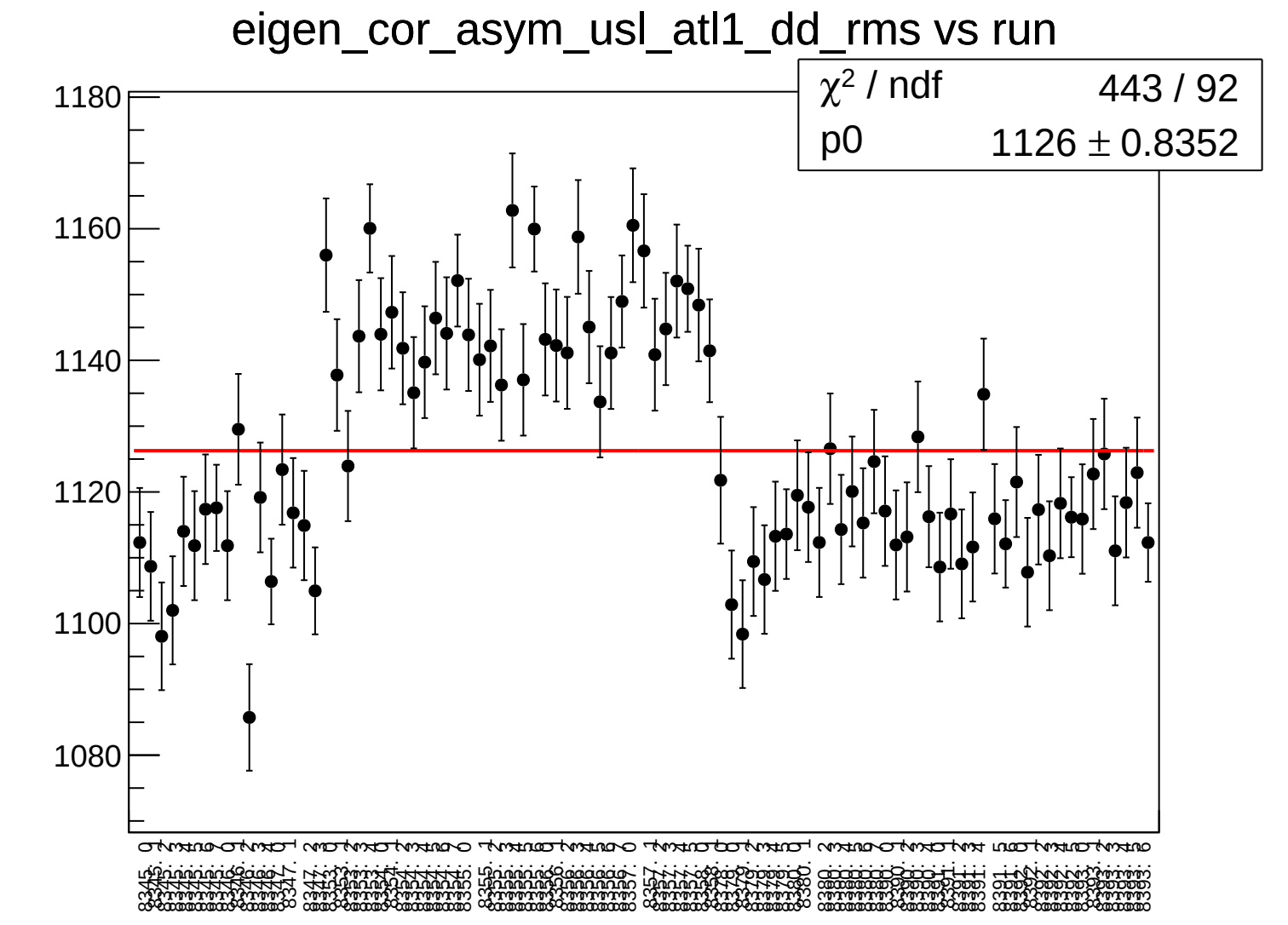

pull1D
Entries 93
Mean 0.01644
Std Dev 0.8821

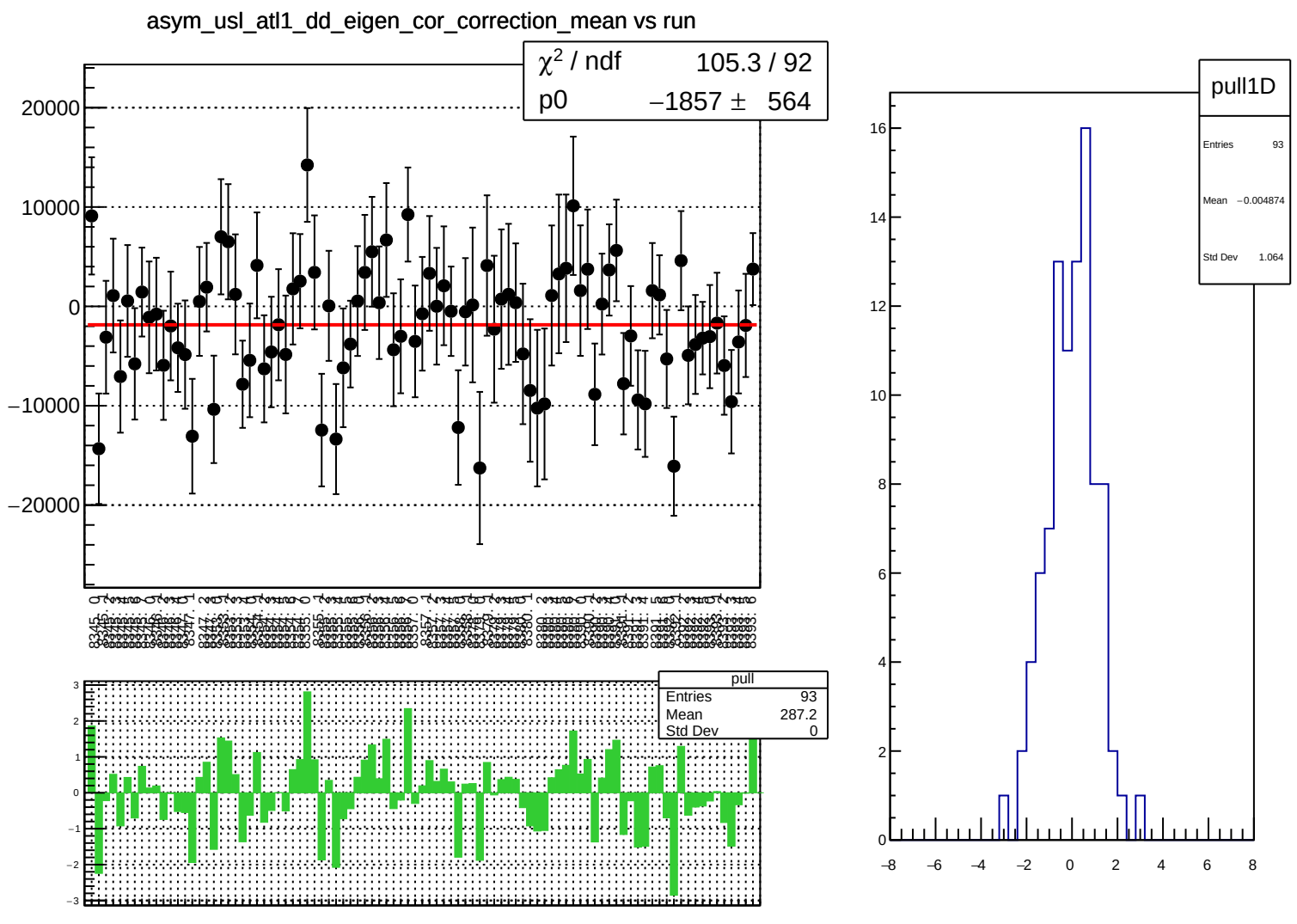

cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 443 / 92
p0 1126 ± 0.8352
1180
1160
1140
1120
1100
1080

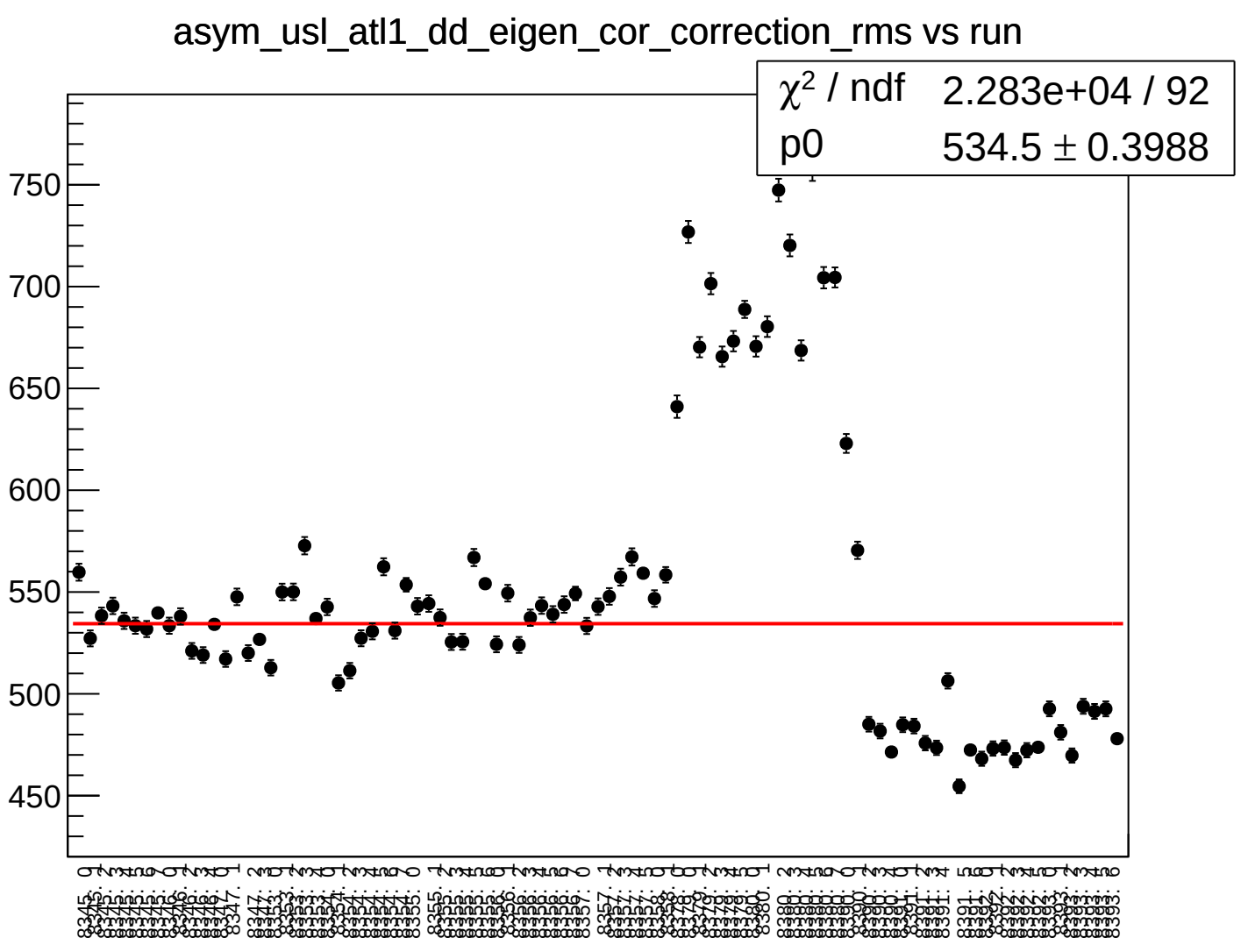

asym_usl_atl1_dd_cor_correction_mean vs run
χ² / ndf 105.3 / 92
p0 −1857 ± 564
20000
10000
0
−10000
−20000
pull
Entries 93
Mean 287.2
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.004874
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

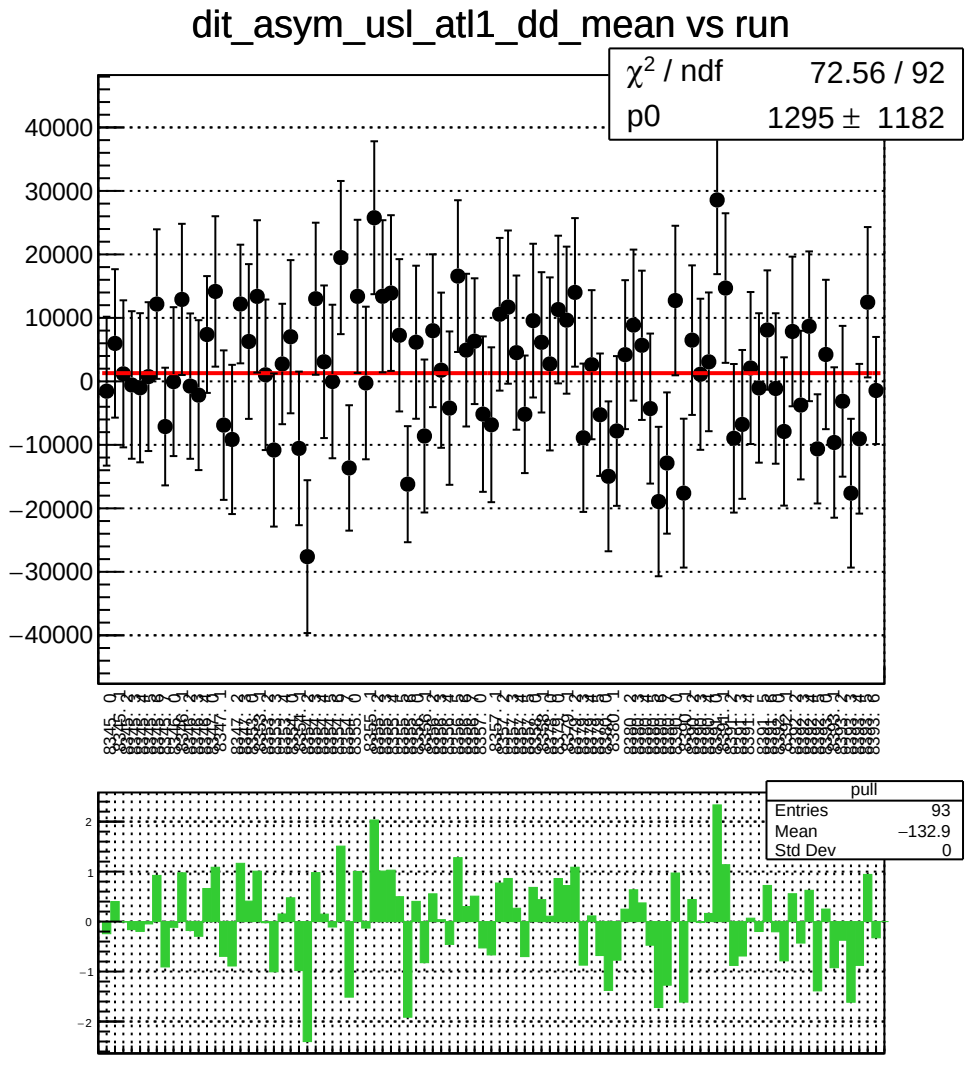

asym_usl_atl1_dd_cor_correction_rms vs run
χ² / ndf 2.283e+04 / 92
p0 534.5 ± 0.3988
750
700
650
600
550
500
450

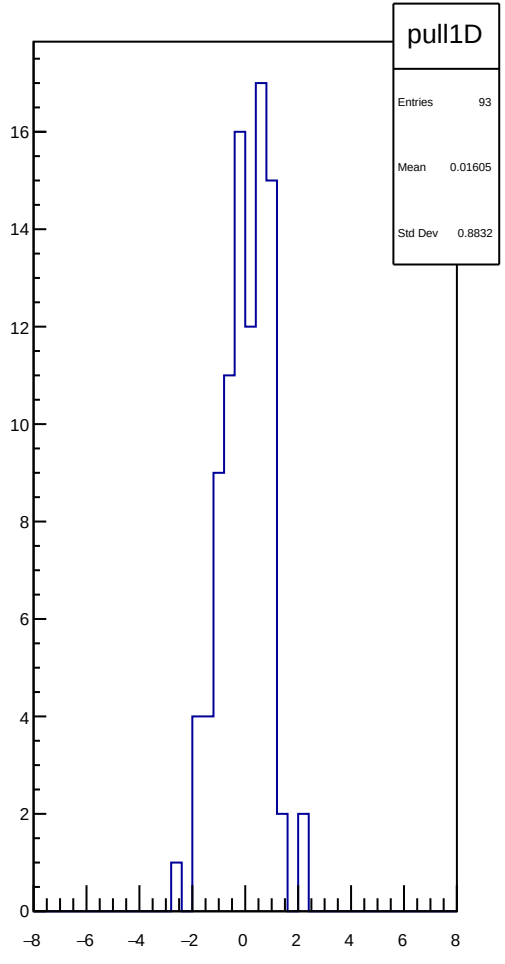

eigen_cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 72.39 / 92
p0 1409 ± 1181
pull
Entries 93
Mean −110.2
Std Dev 0
pull1D
Entries 93
Mean 0.01644
Std Dev 0.8821

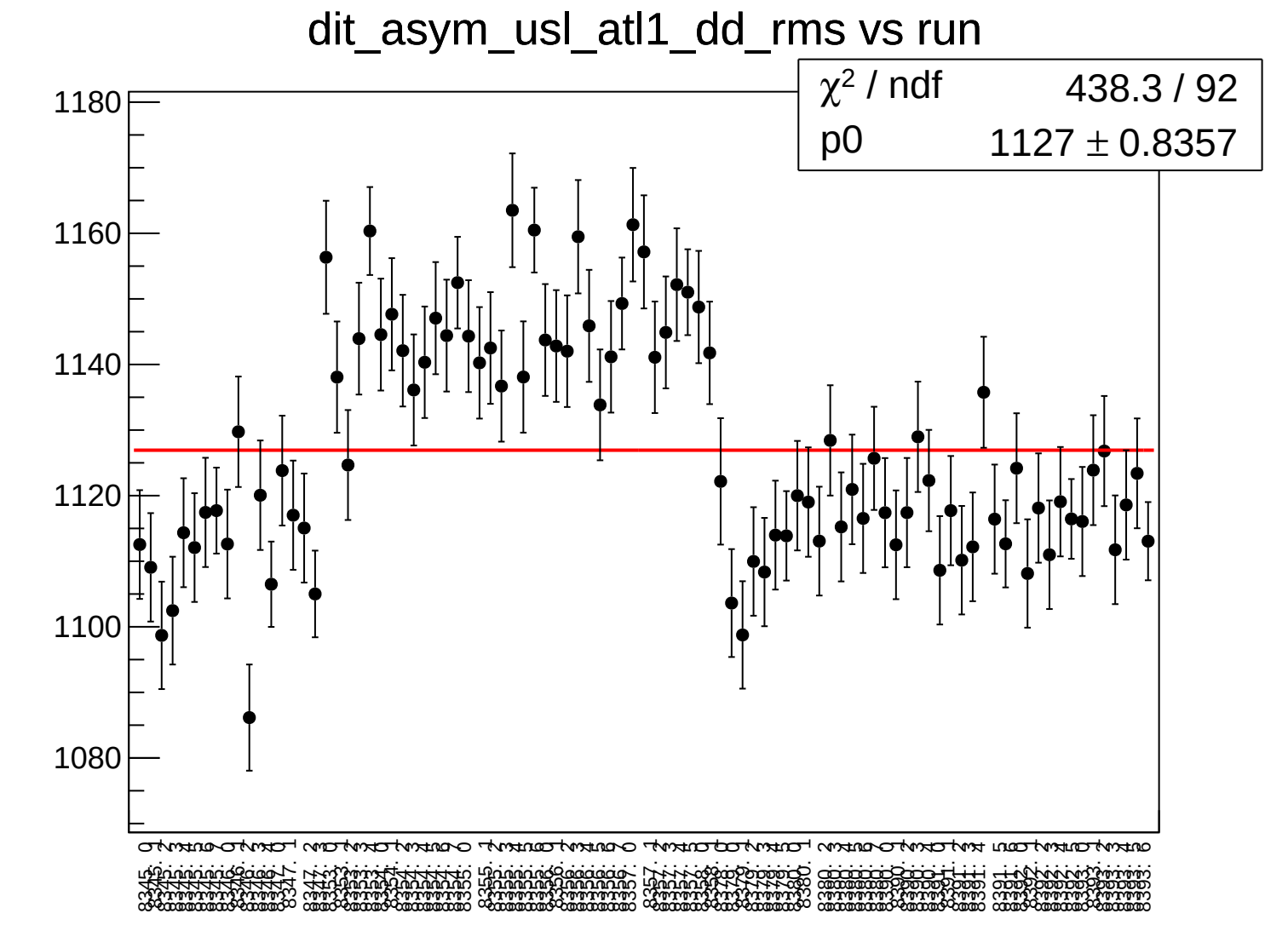

eigen_cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 443 / 92
p0 1126 ± 0.8352
1180
1160
1140
1120
1100
1080

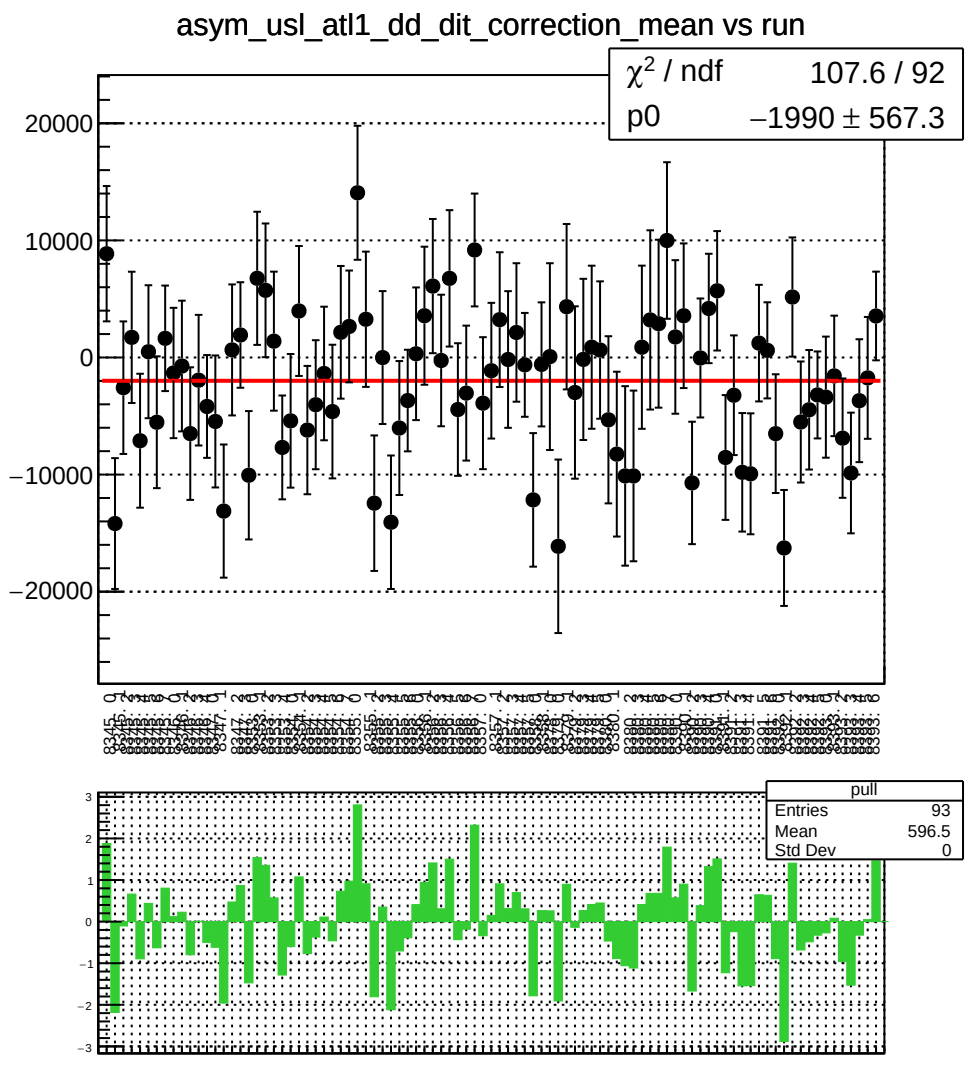

asym_usl_atl1_dd_eigen_cor_correction_mean vs run
χ² / ndf 105.3 / 92
p0 −1857 ± 564
20000
10000
0
−10000
−20000
pull
Entries 93
Mean 287.2
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.004874
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

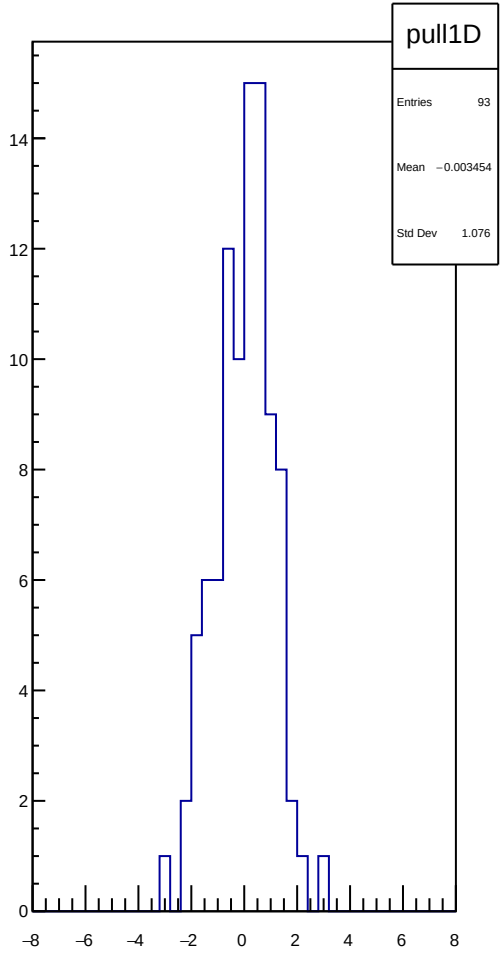

asym_usl_atl1_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.283e+04 / 92
p0 534.5 ± 0.3988
750
700
650
600
550
500
450

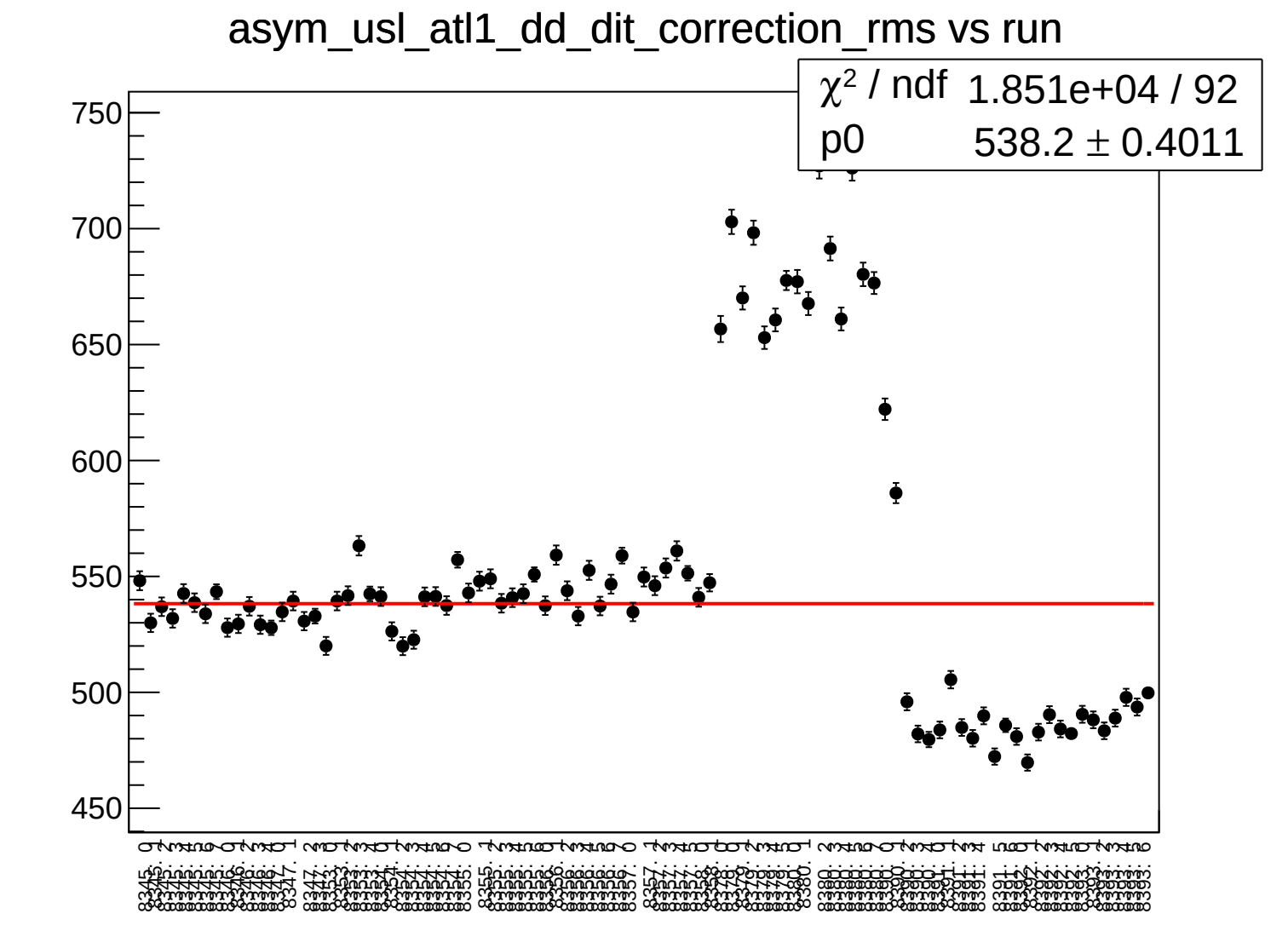

dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 72.56 / 92
p0 1295 ± 1182
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean −132.9
Std Dev 0
2
1
0
−1
−2

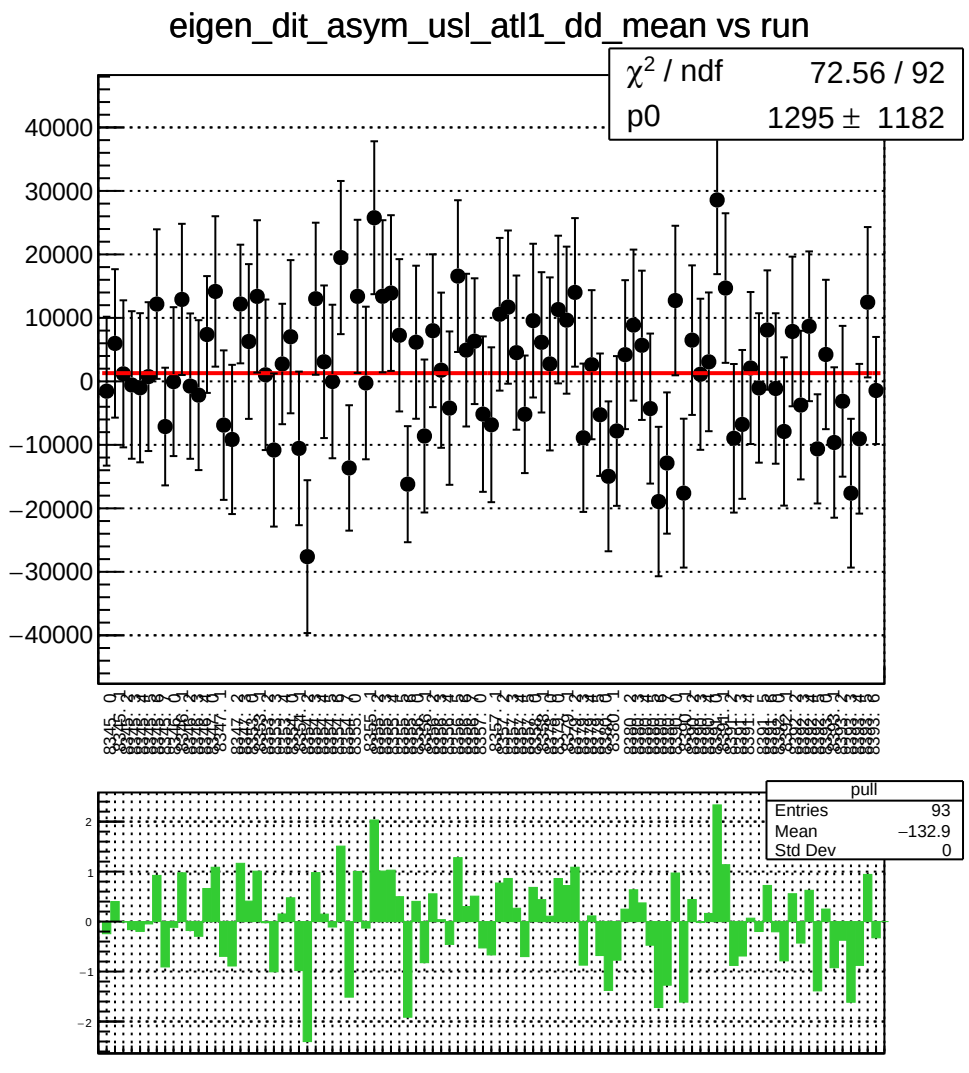

pull1D
Entries 93
Mean 0.01605
Std Dev 0.8832
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

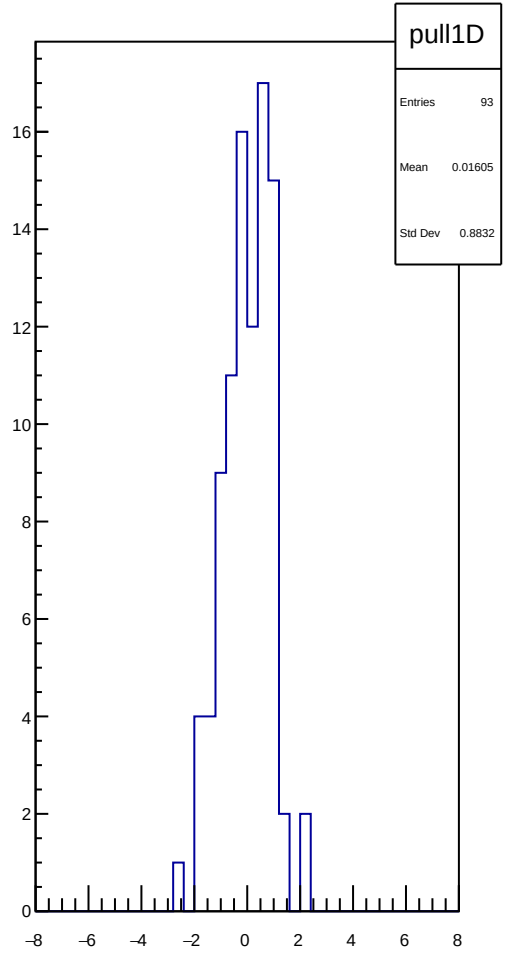

dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 438.3 / 92
p0 1127 ± 0.8357
1180
1160
1140
1120
1100
1080

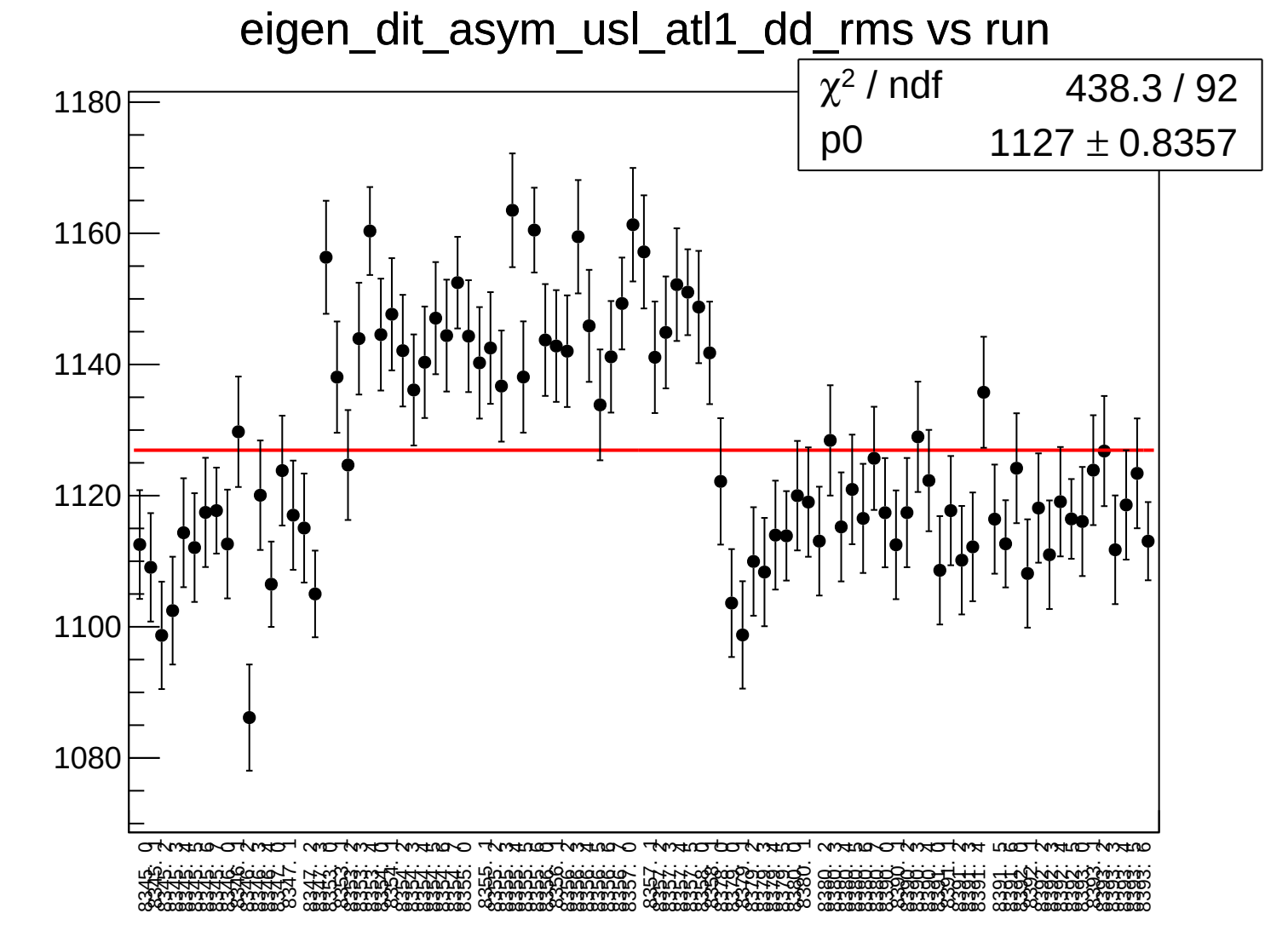

asym_usl_atl1_dd_dit_correction_mean vs run
χ² / ndf 107.6 / 92
p0 −1990 ± 567.3
20000
10000
0
−10000
−20000
pull
Entries 93
Mean 596.5
Std Dev 0
3
2
1
0
−1
−2
−3

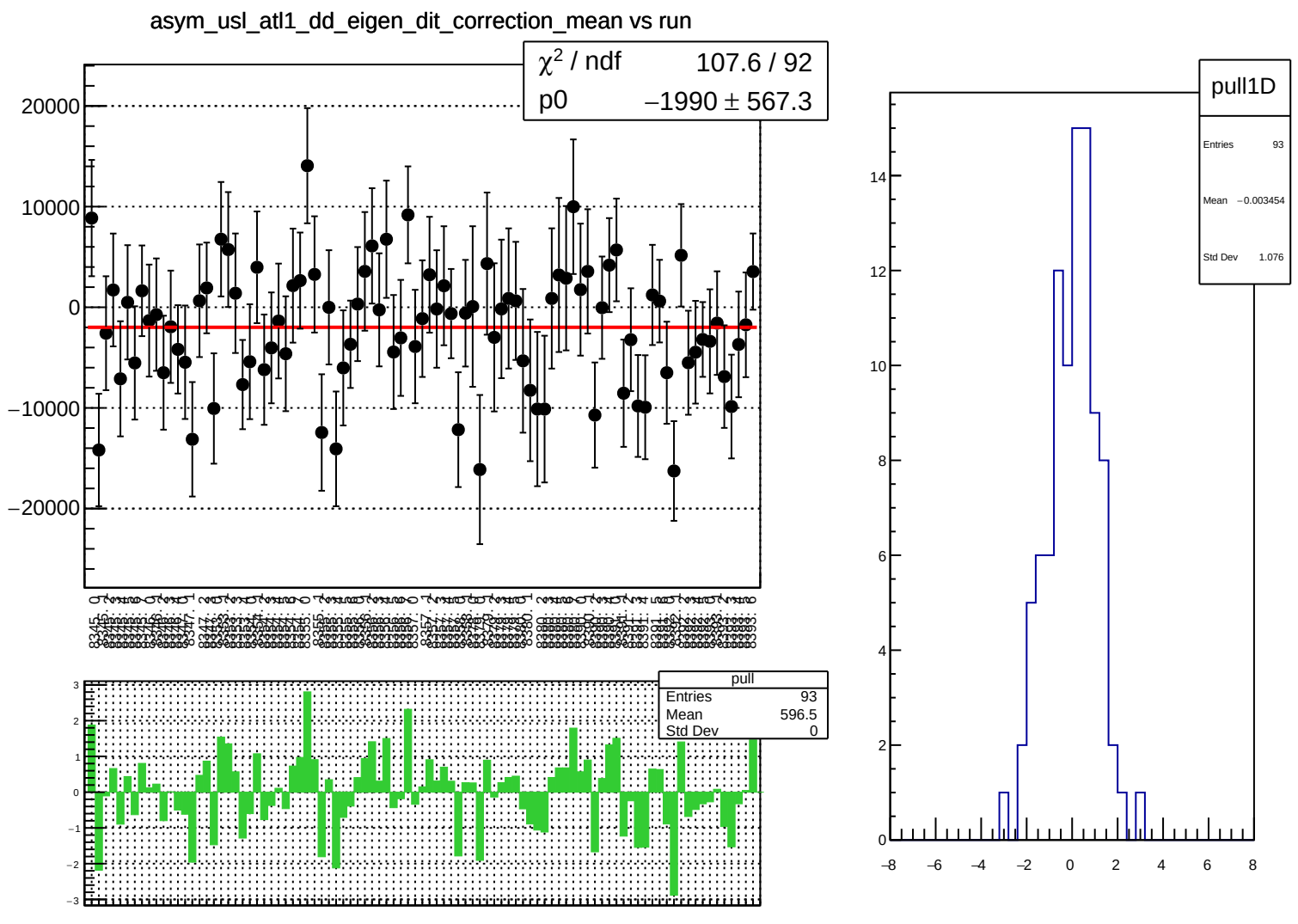

pull1D
Entries 93
Mean −0.003454
Std Dev 1.076
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

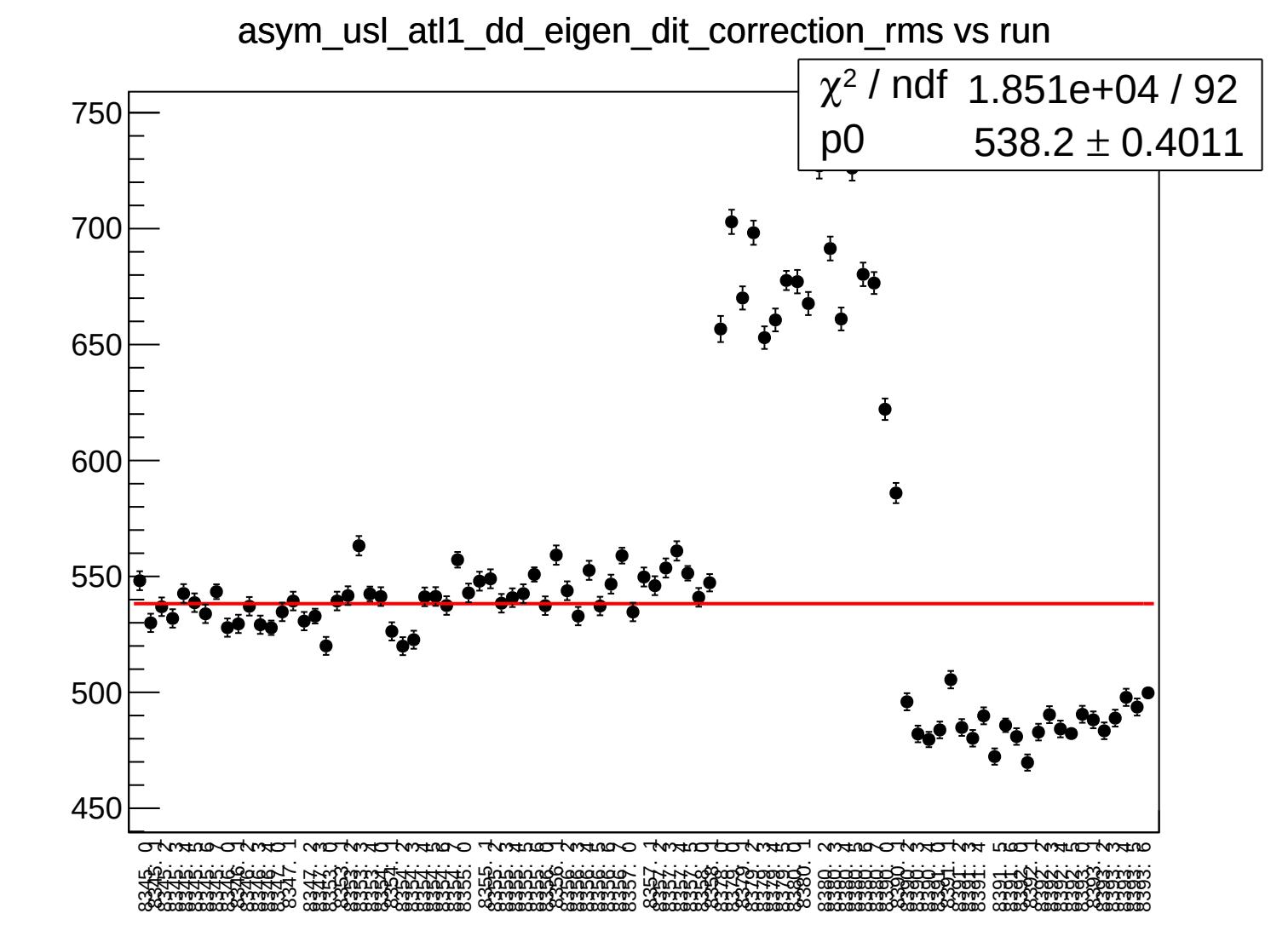

asym_usl_atl1_dd_dit_correction_rms vs run
χ² / ndf 1.851e+04 / 92
p0 538.2 ± 0.4011
750
700
650
600
550
500
450

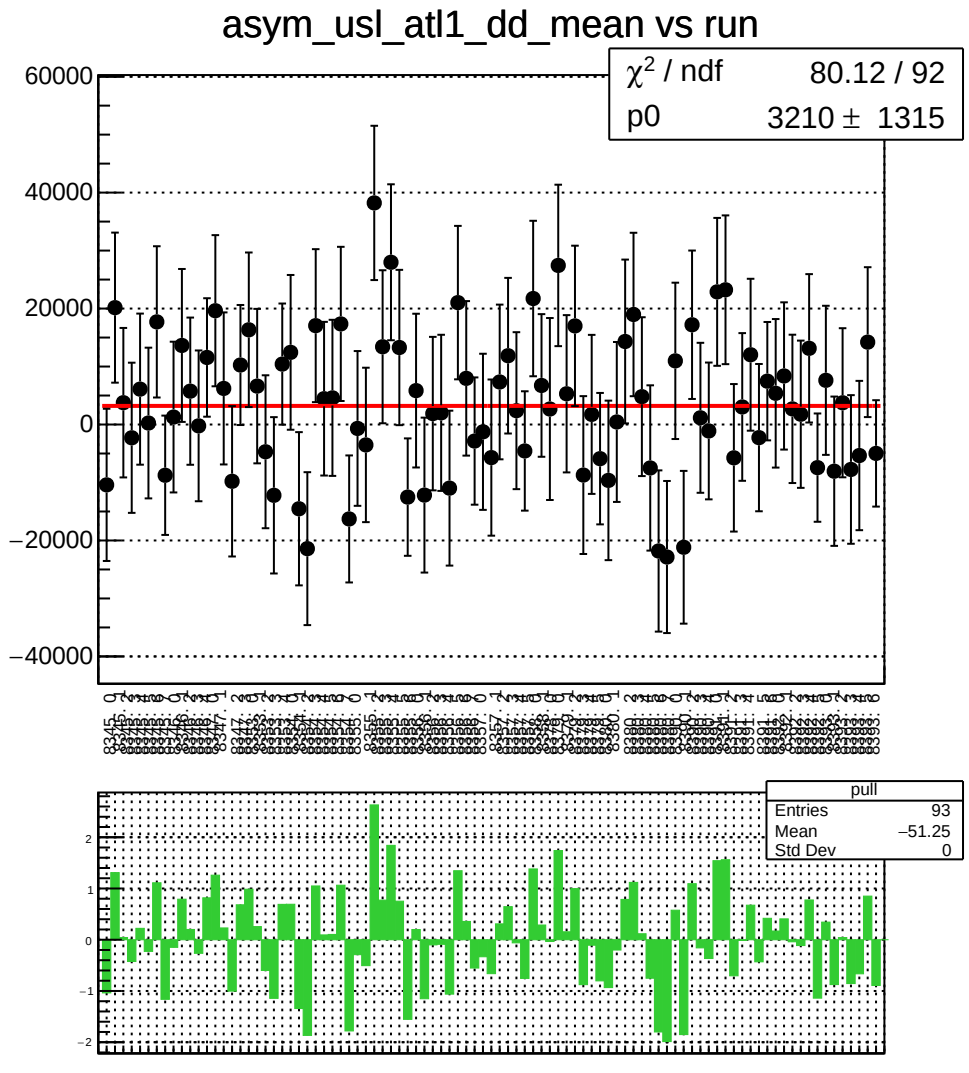

eigen_dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 72.56 / 92
p0 1295 ± 1182
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean −132.9
Std Dev 0
2
1
0
−1
−2

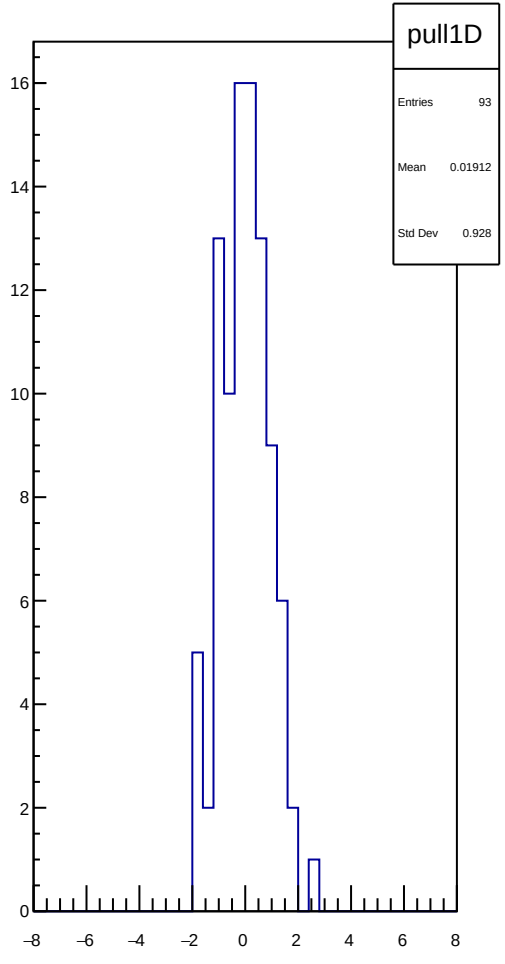

pull1D
Entries 93
Mean 0.01605
Std Dev 0.8832
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

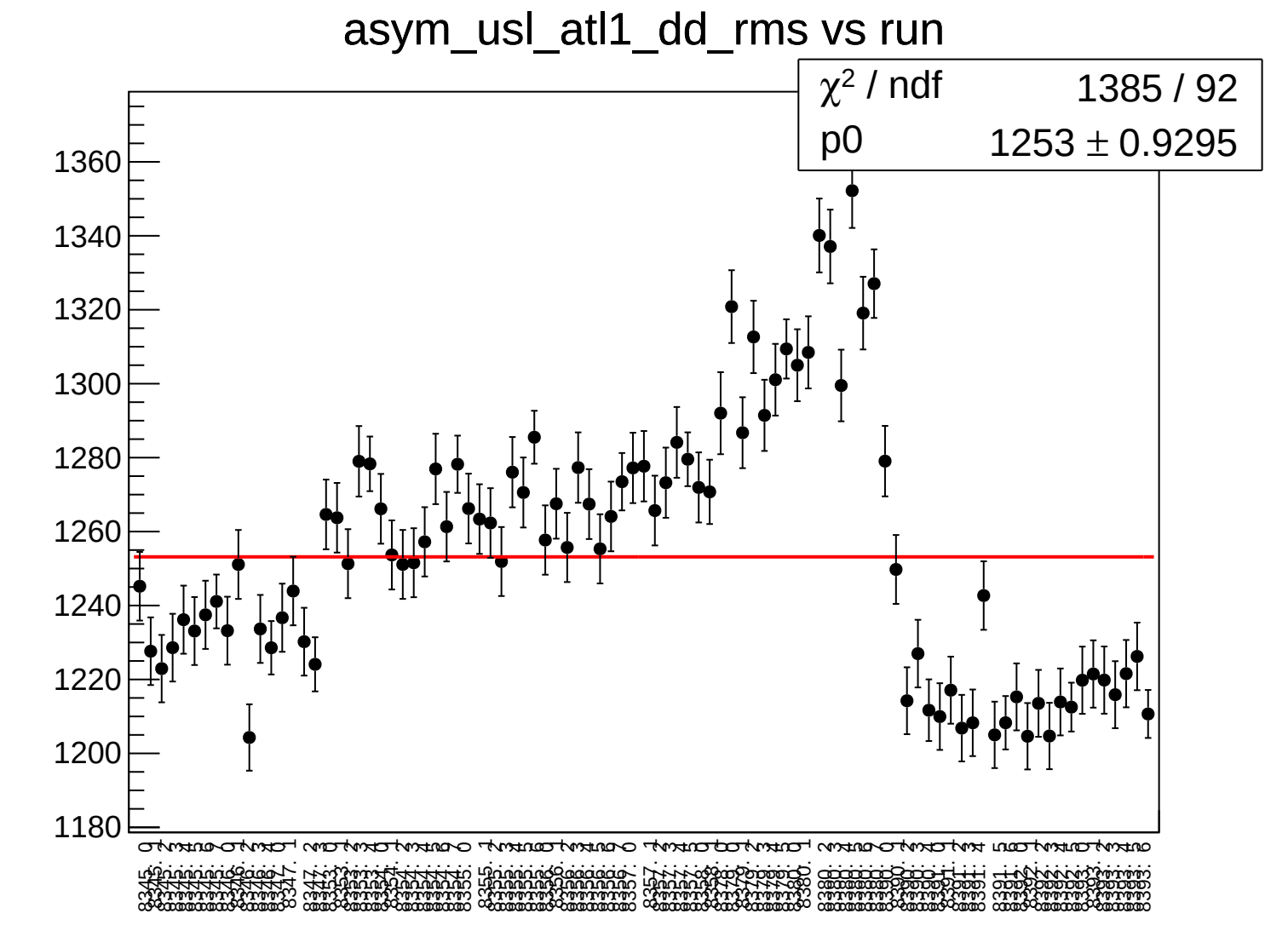

eigen_dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 438.3 / 92
p0 1127 ± 0.8357
1180
1160
1140
1120
1100
1080

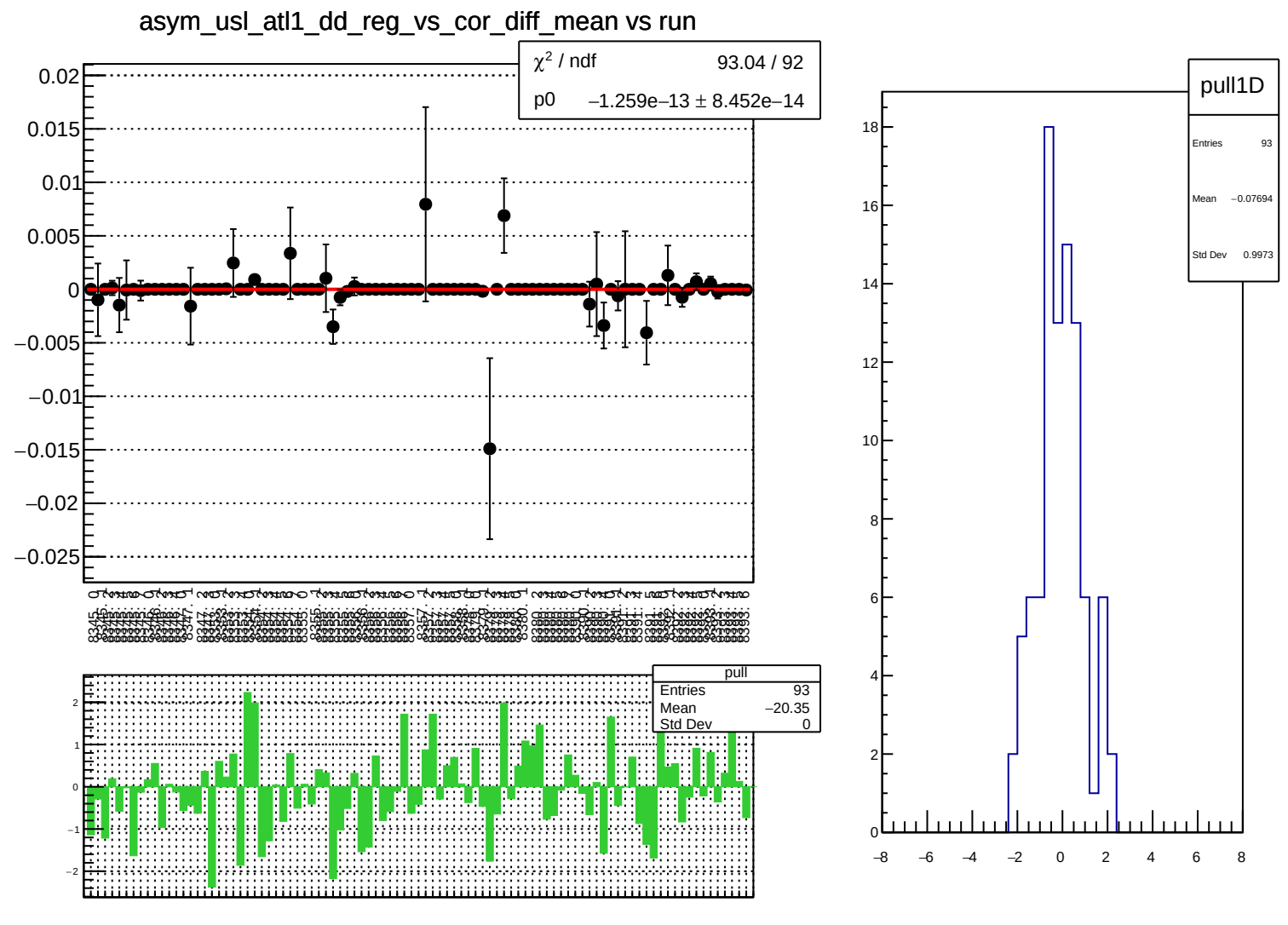

asym_usl_atl1_dd_eigen_dit_correction_mean vs run
χ² / ndf 107.6 / 92
p0 −1990 ± 567.3
20000
10000
0
−10000
−20000
pull
Entries 93
Mean 596.5
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.003454
Std Dev 1.076
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

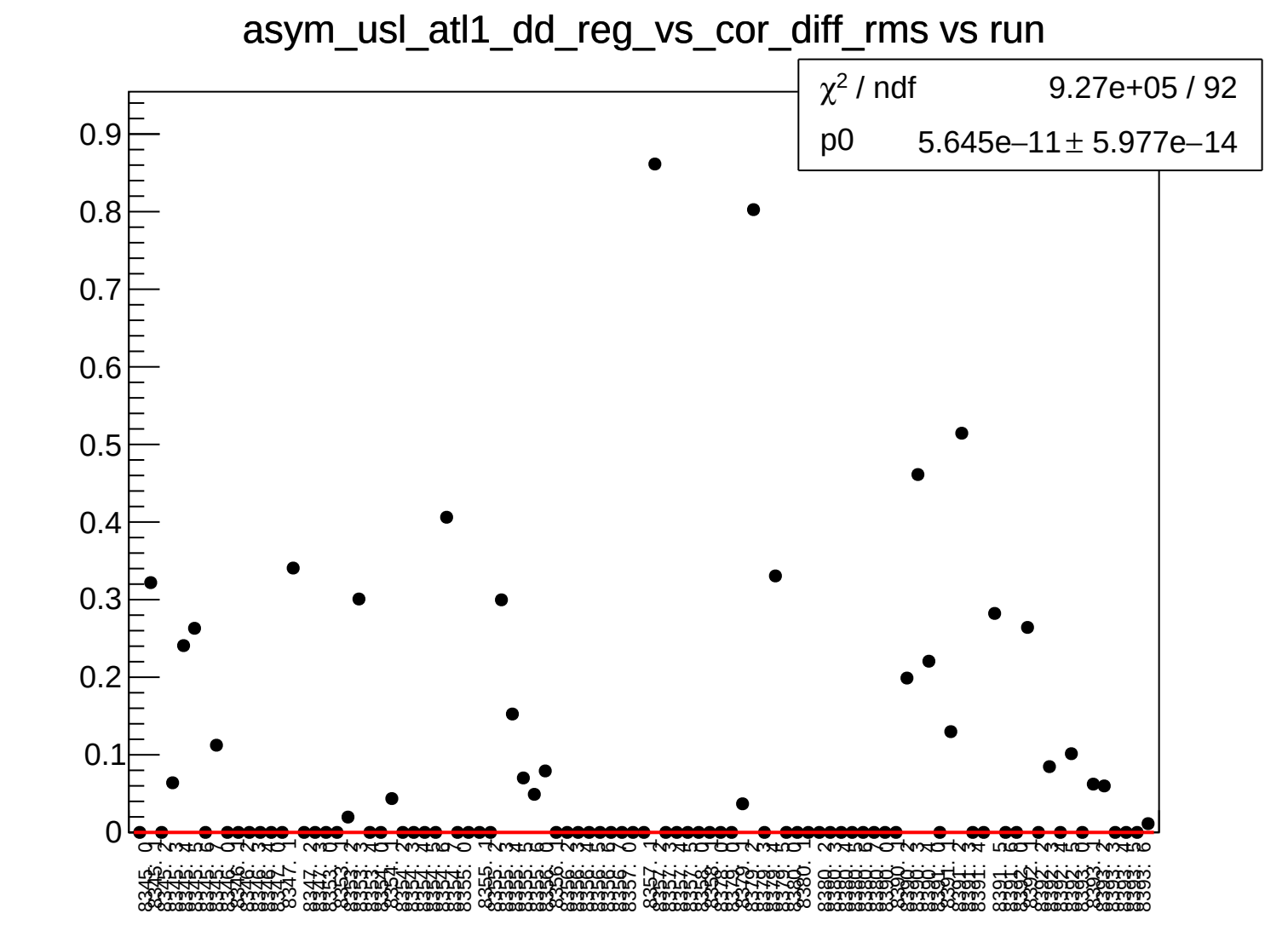

asym_usl_atl1_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.851e+04 / 92
p0 538.2 ± 0.4011
750
700
650
600
550
500
450

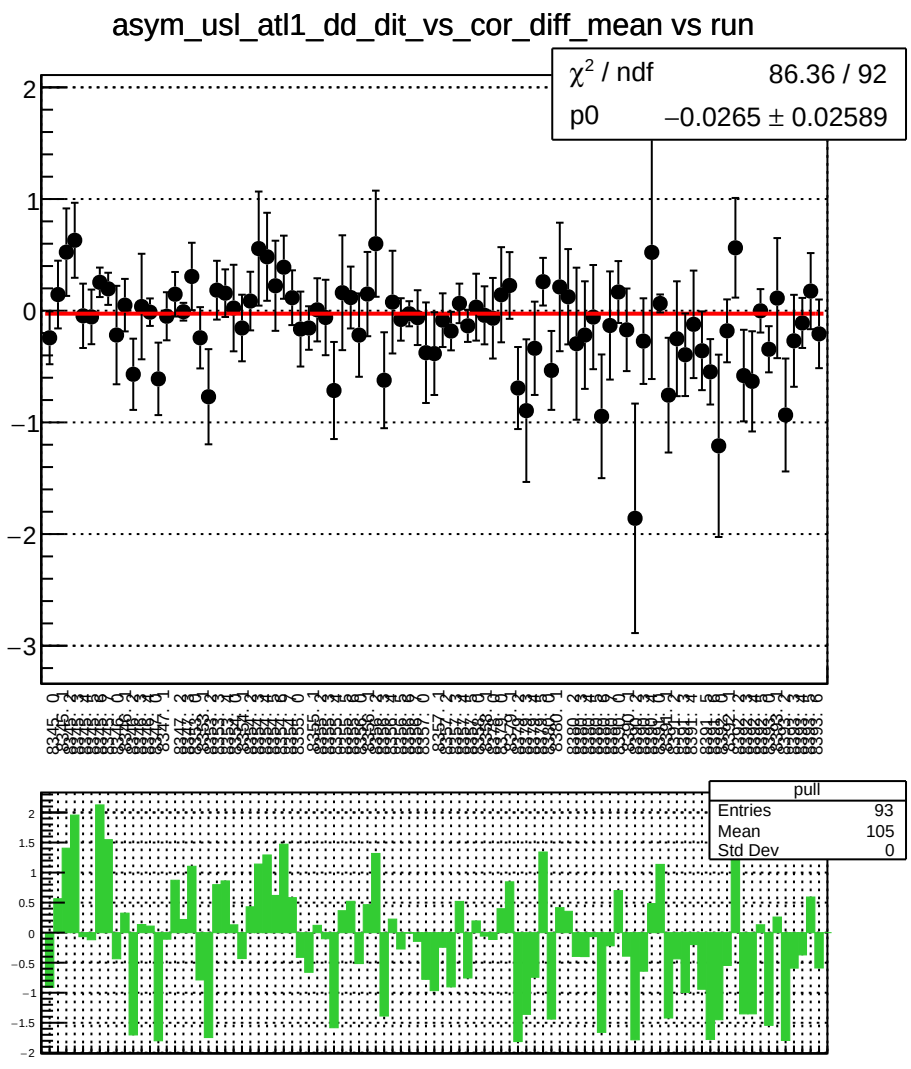

asym_usl_atl1_dd_mean vs run
χ² / ndf 80.12 / 92
p0 3210 ± 1315
pull
Entries 93
Mean −51.25
Std Dev 0

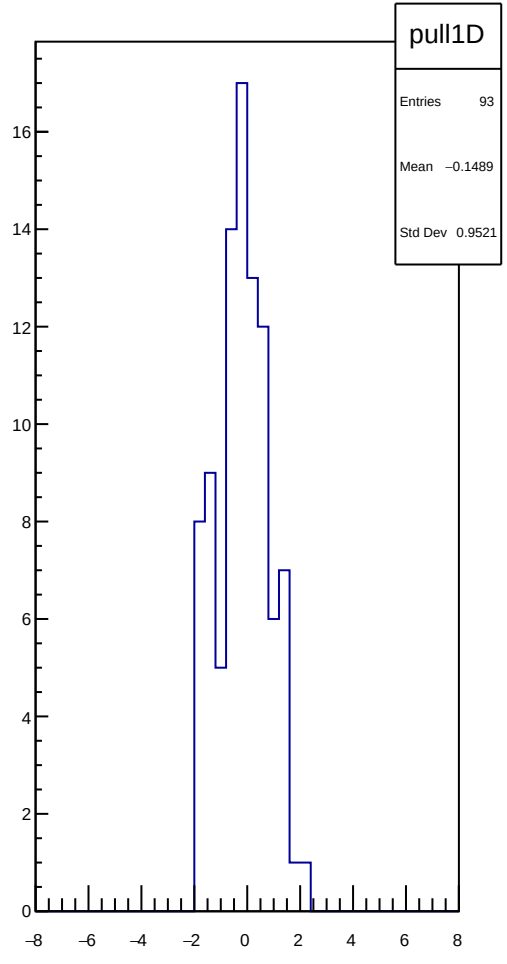

pull1D
Entries 93
Mean 0.01912
Std Dev 0.928

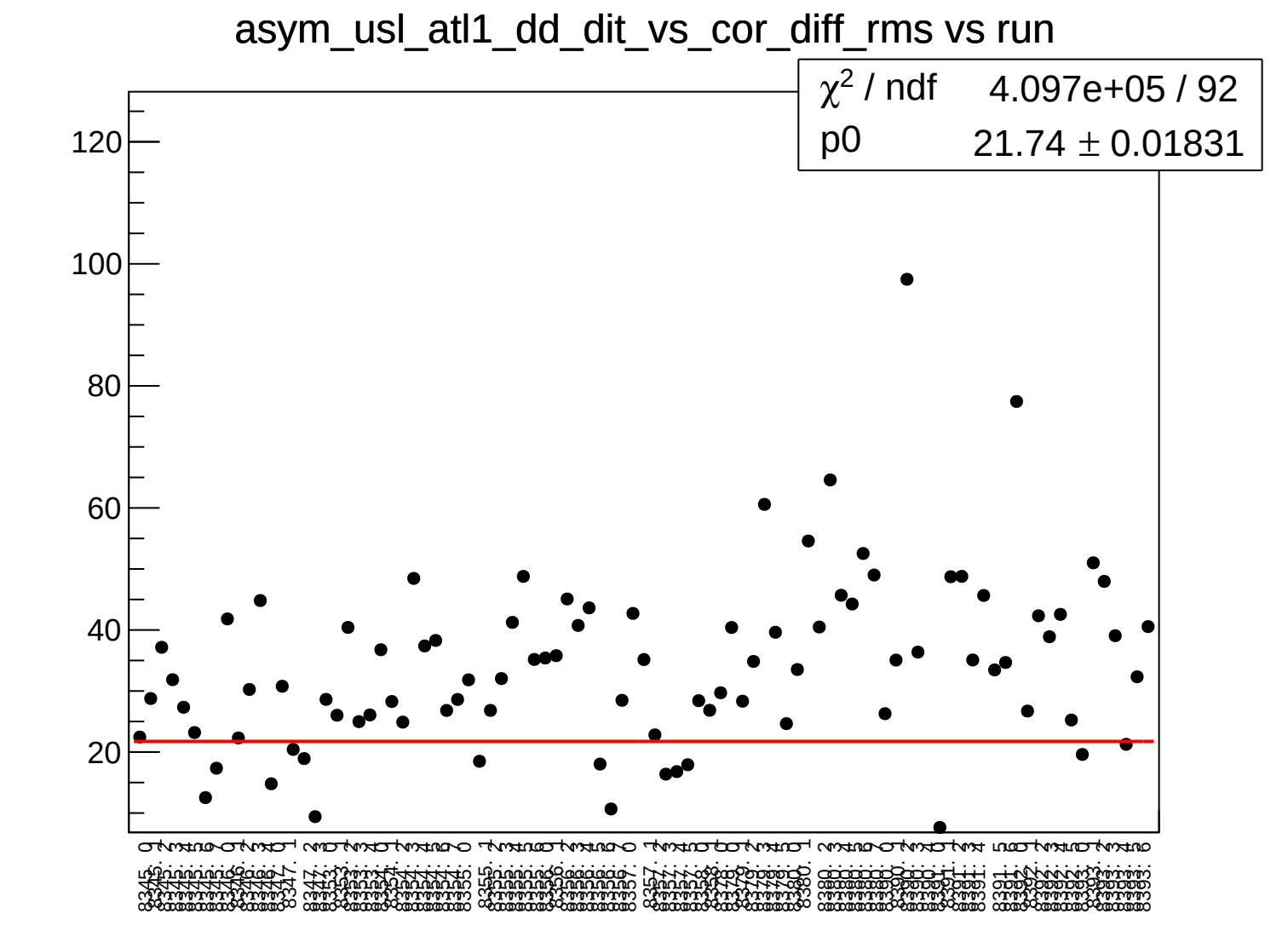

asym_usl_atl1_dd_rms vs run
χ² / ndf 1385 / 92
p0 1253 ± 0.9295
1360
1340
1320
1300
1280
1260
1240
1220
1200
1180

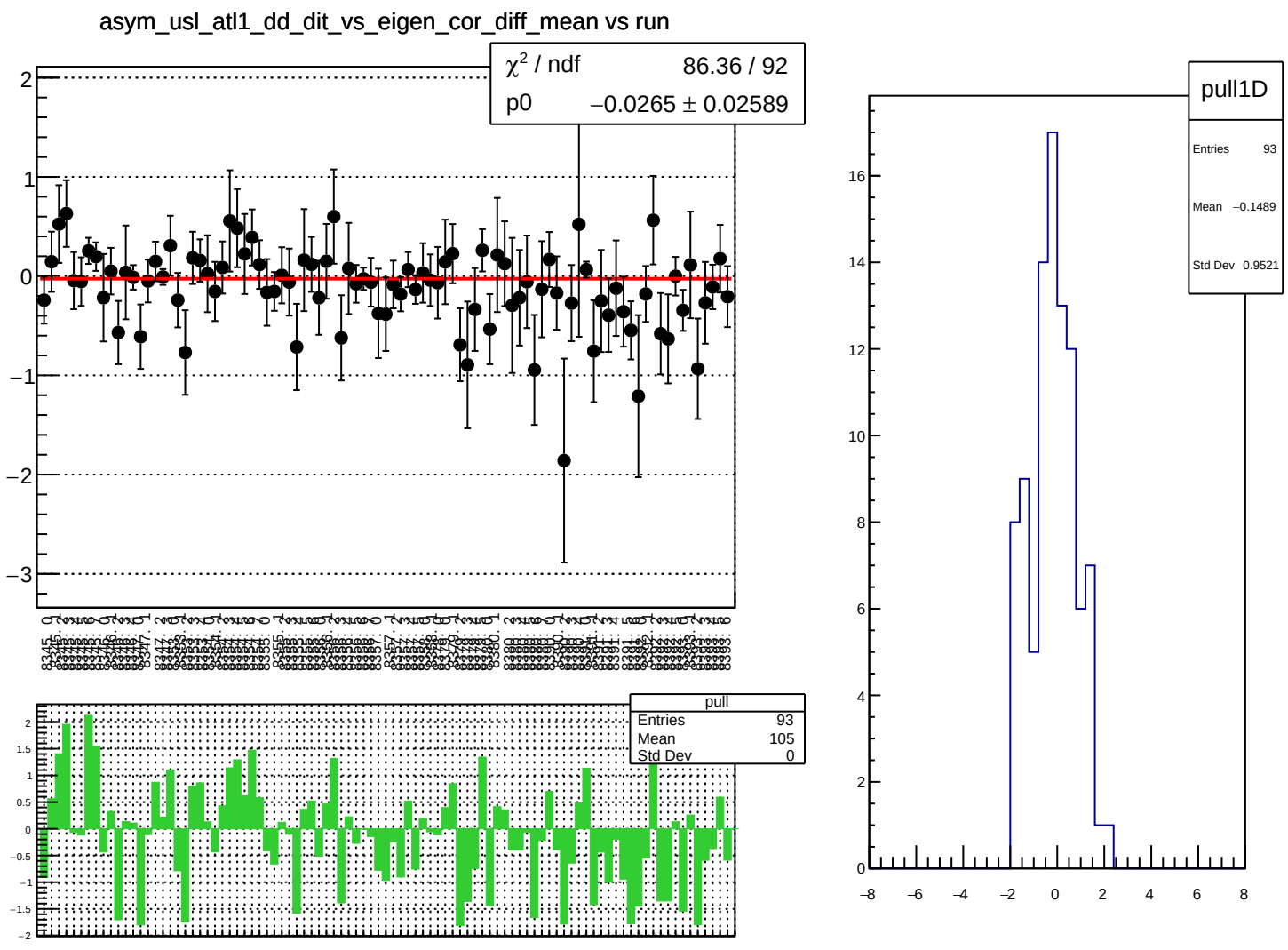

asym_usl_atl1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 93.04 / 92
p0 −1.259e−13 ± 8.452e−14
pull
Entries 93
Mean −20.35
Std Dev 0
pull1D
Entries 93
Mean −0.07694
Std Dev 0.9973

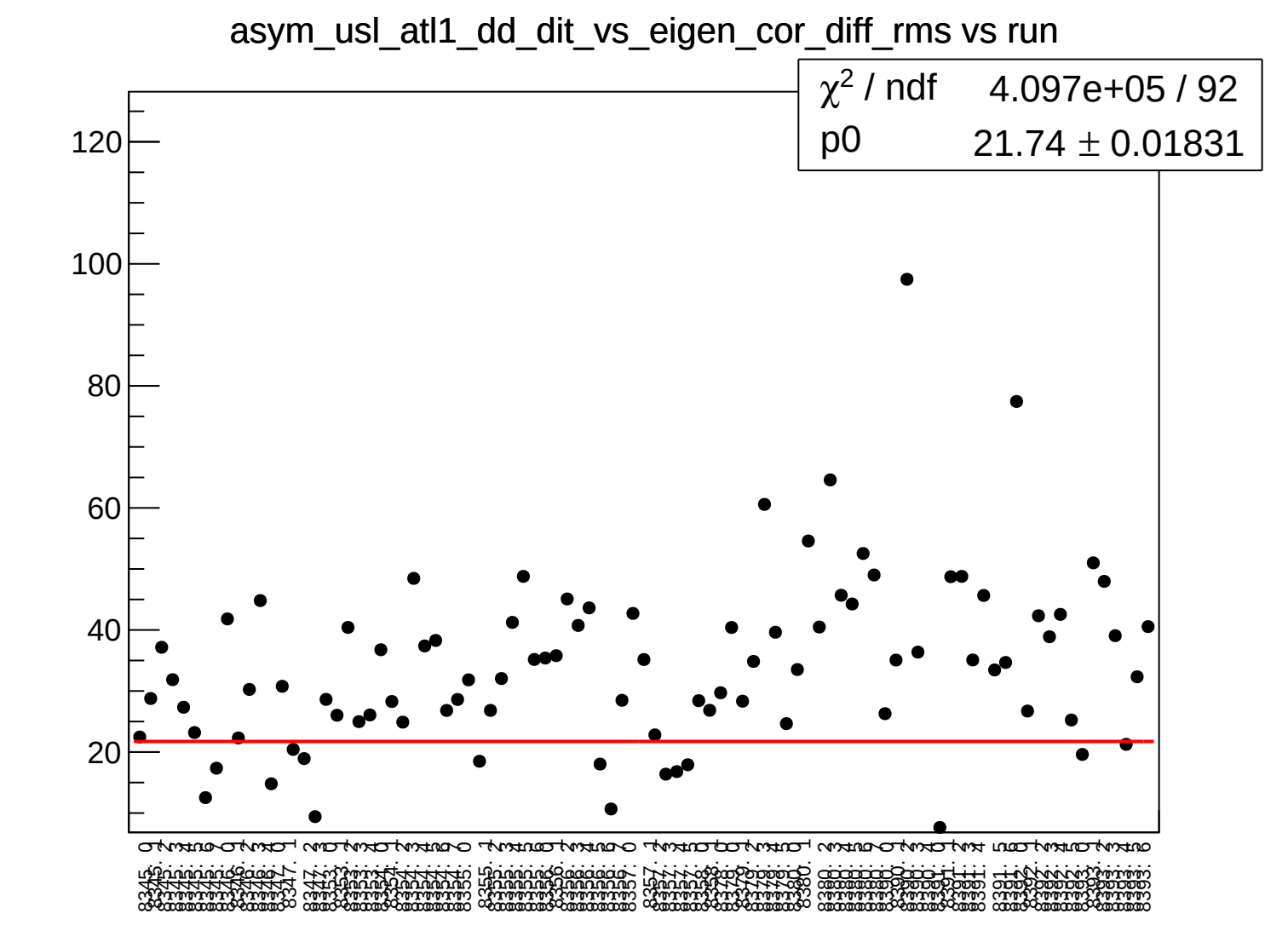

asym_usl_atl1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.27e+05 / 92
p0 5.645e−11 ± 5.977e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

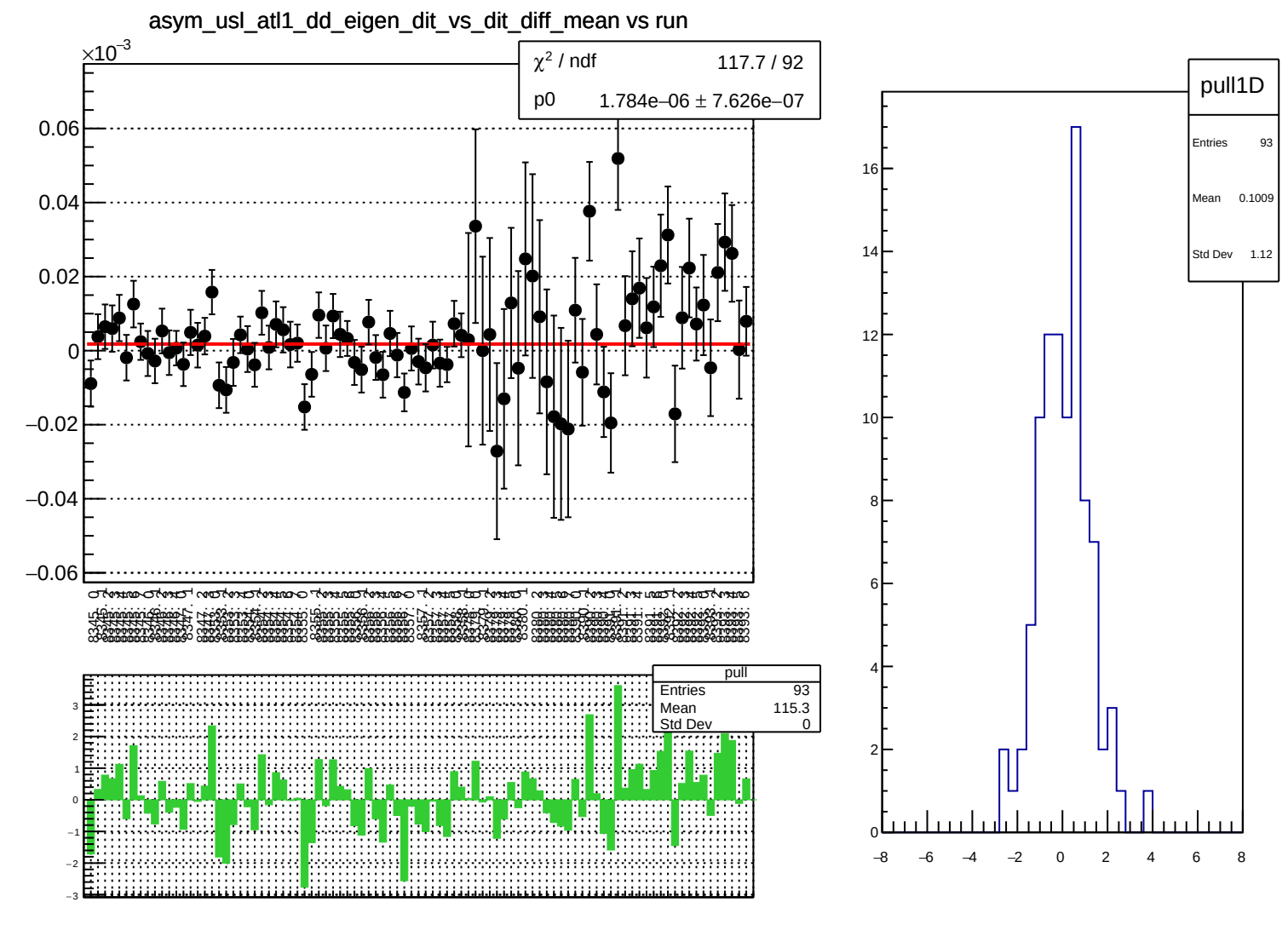

asym_usl_atl1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 86.36 / 92
p0 −0.0265 ± 0.02589
pull
Entries 93
Mean 105
Std Dev 0

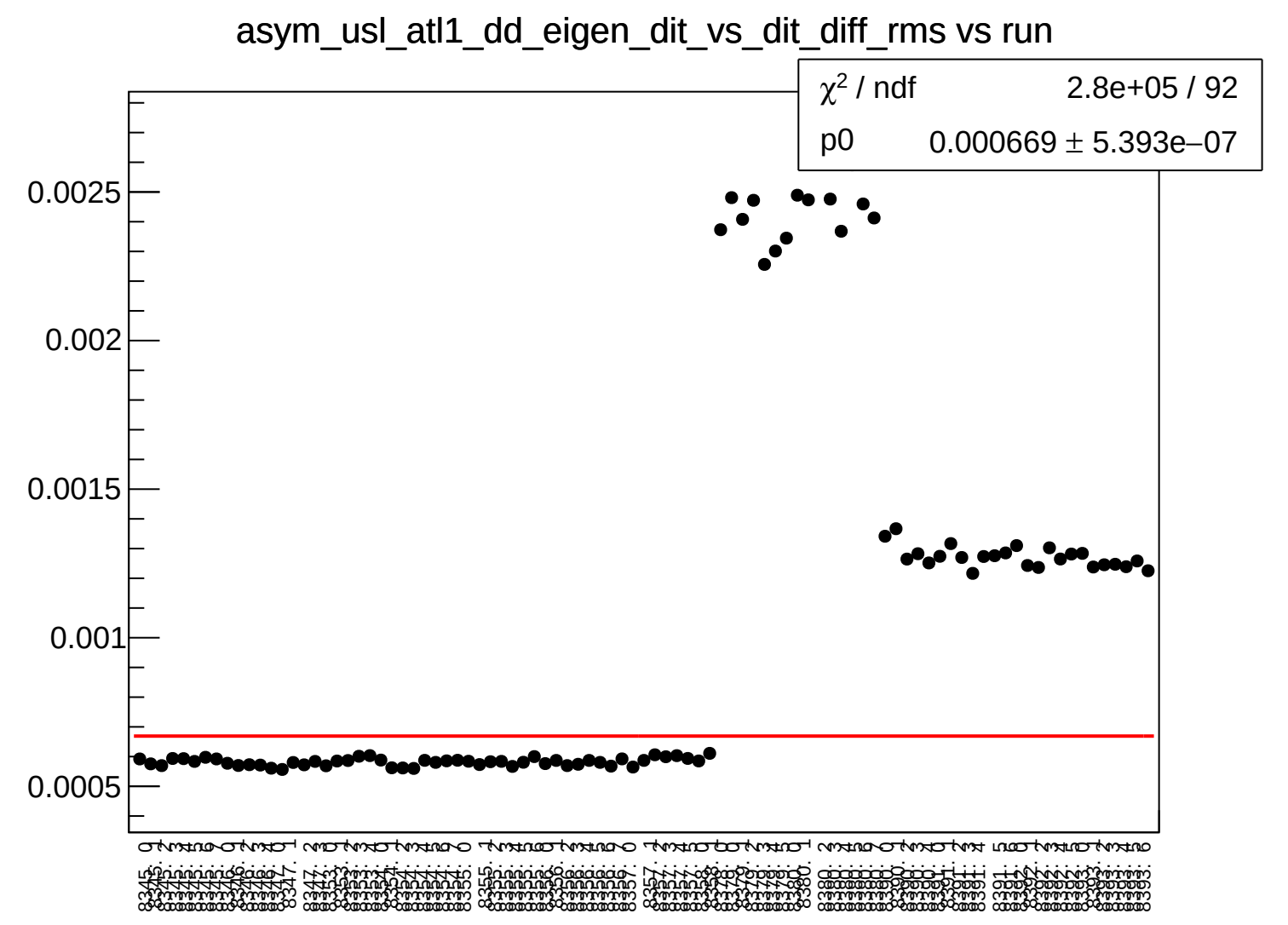

pull1D
Entries 93
Mean −0.1489
Std Dev 0.9521

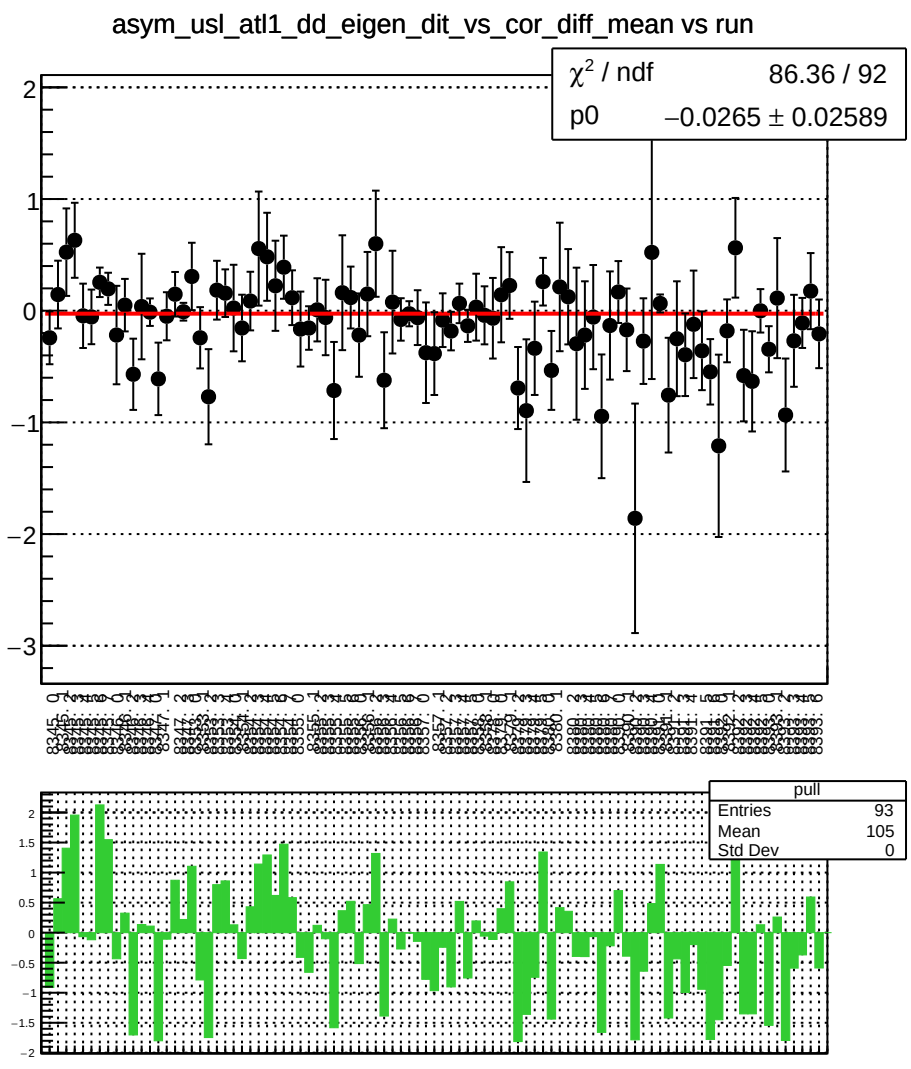

asym_usl_atl1_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 4.097e+05 / 92
p0 21.74 ± 0.01831
120
100
80
60
40
20

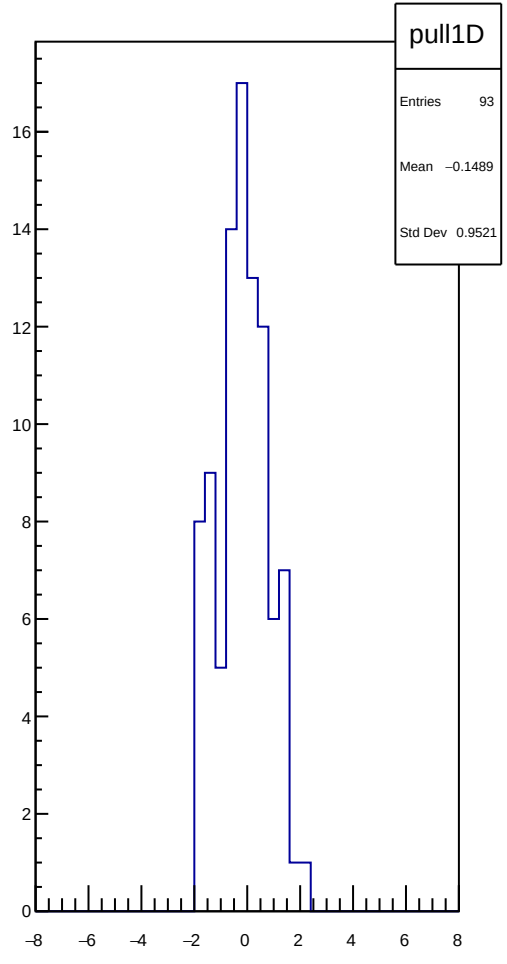

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.36 / 92
p0 −0.0265 ± 0.02589
pull
Entries 93
Mean 105
Std Dev 0
pull1D
Entries 93
Mean −0.1489
Std Dev 0.9521

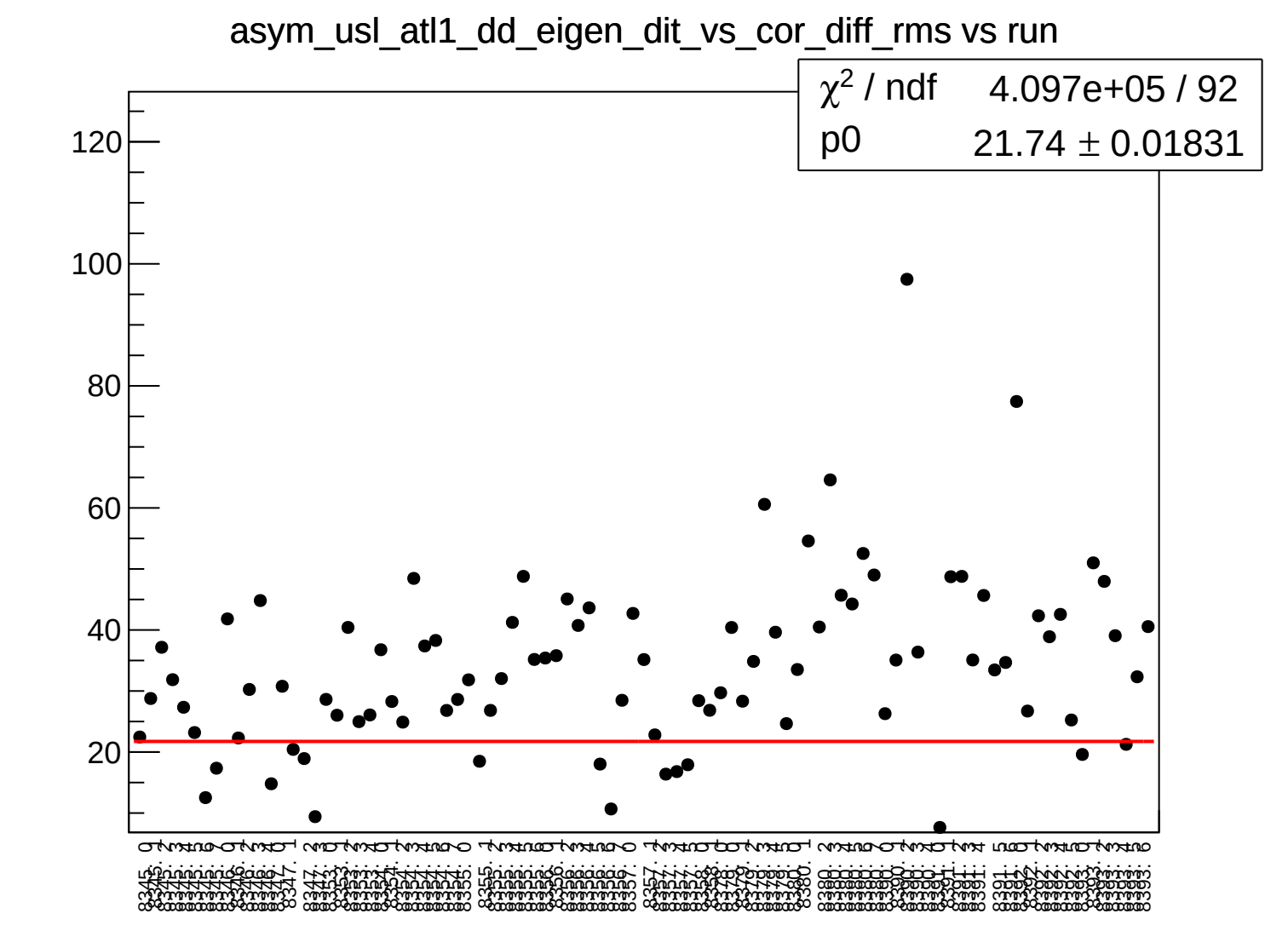

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 4.097e+05 / 92
p0 21.74 ± 0.01831
120
100
80
60
40
20

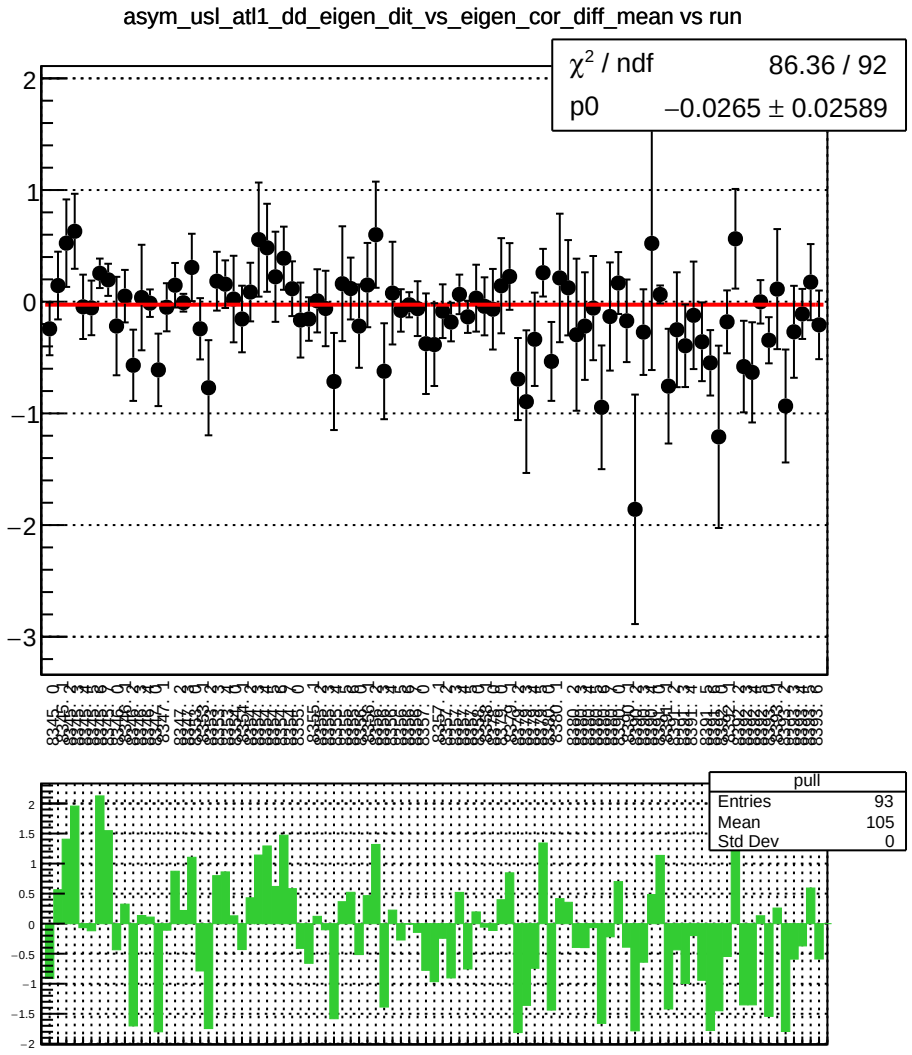

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 117.7 / 92
p0 1.784e−06 ± 7.626e−07
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 93
Mean 115.3
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.1009
Std Dev 1.12
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

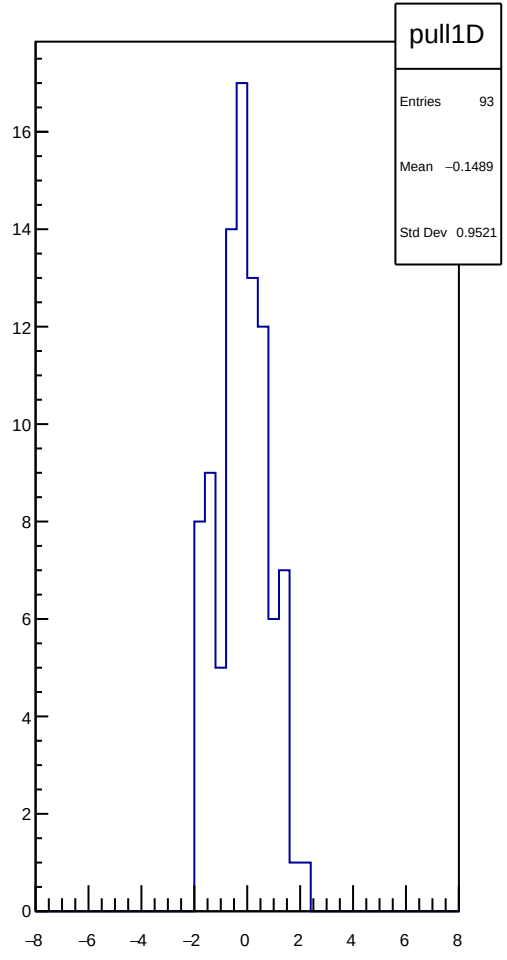

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.8e+05 / 92
p0 0.000669 ± 5.393e−07
0.0025
0.002
0.0015
0.001
0.0005

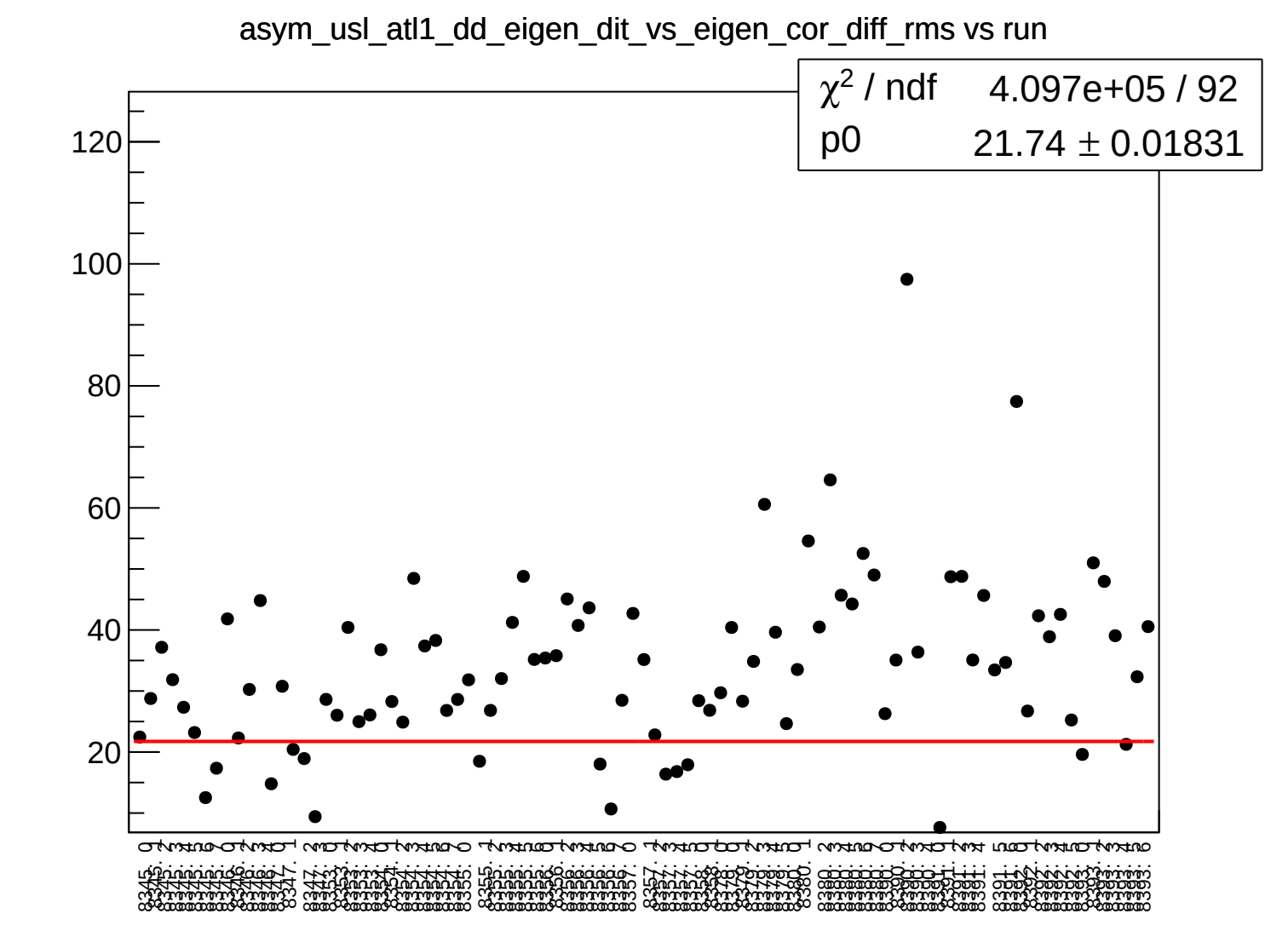

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.36 / 92
p0 −0.0265 ± 0.02589
pull
Entries 93
Mean 105
Std Dev 0

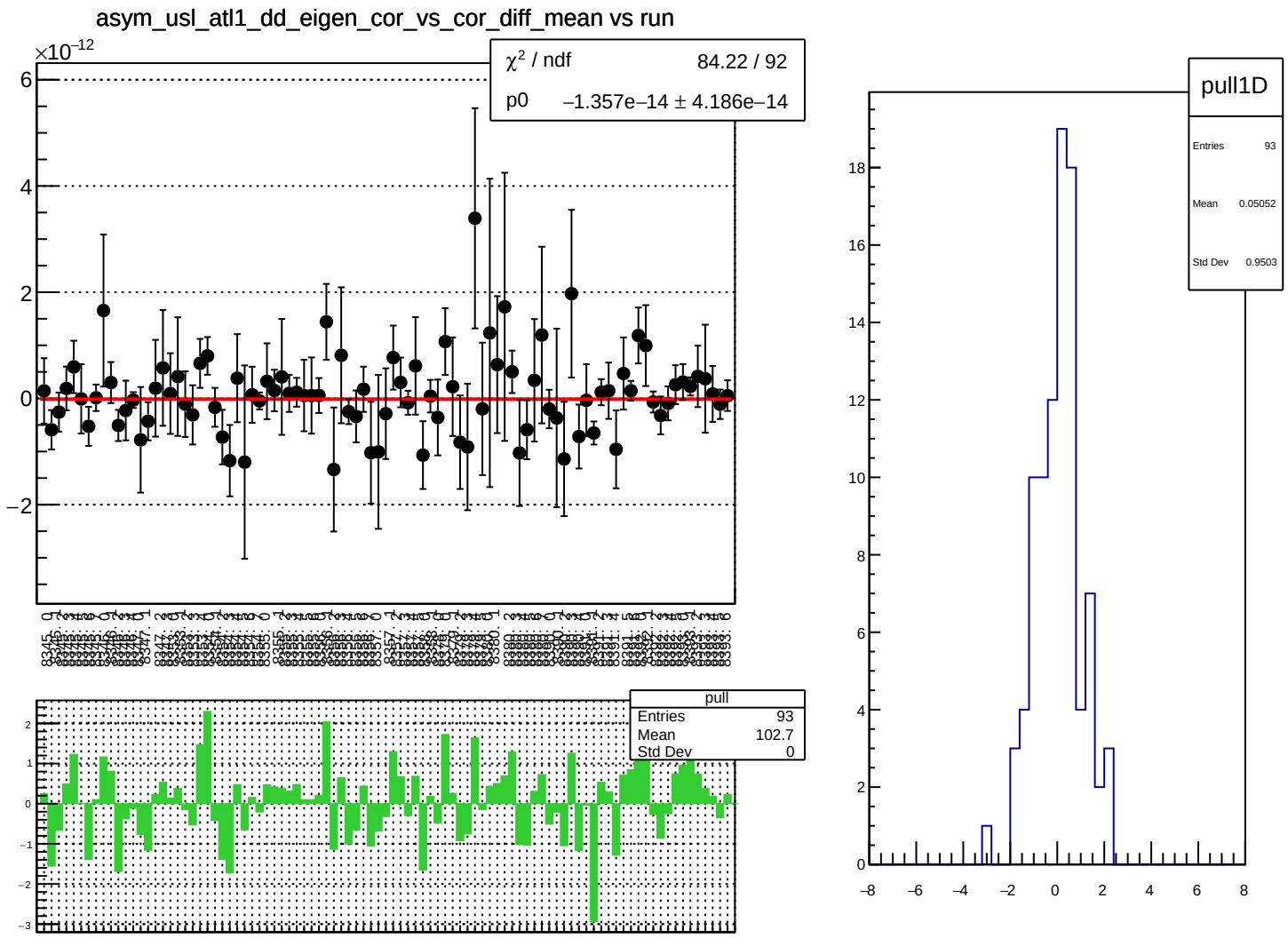

pull1D
Entries 93
Mean −0.1489
Std Dev 0.9521

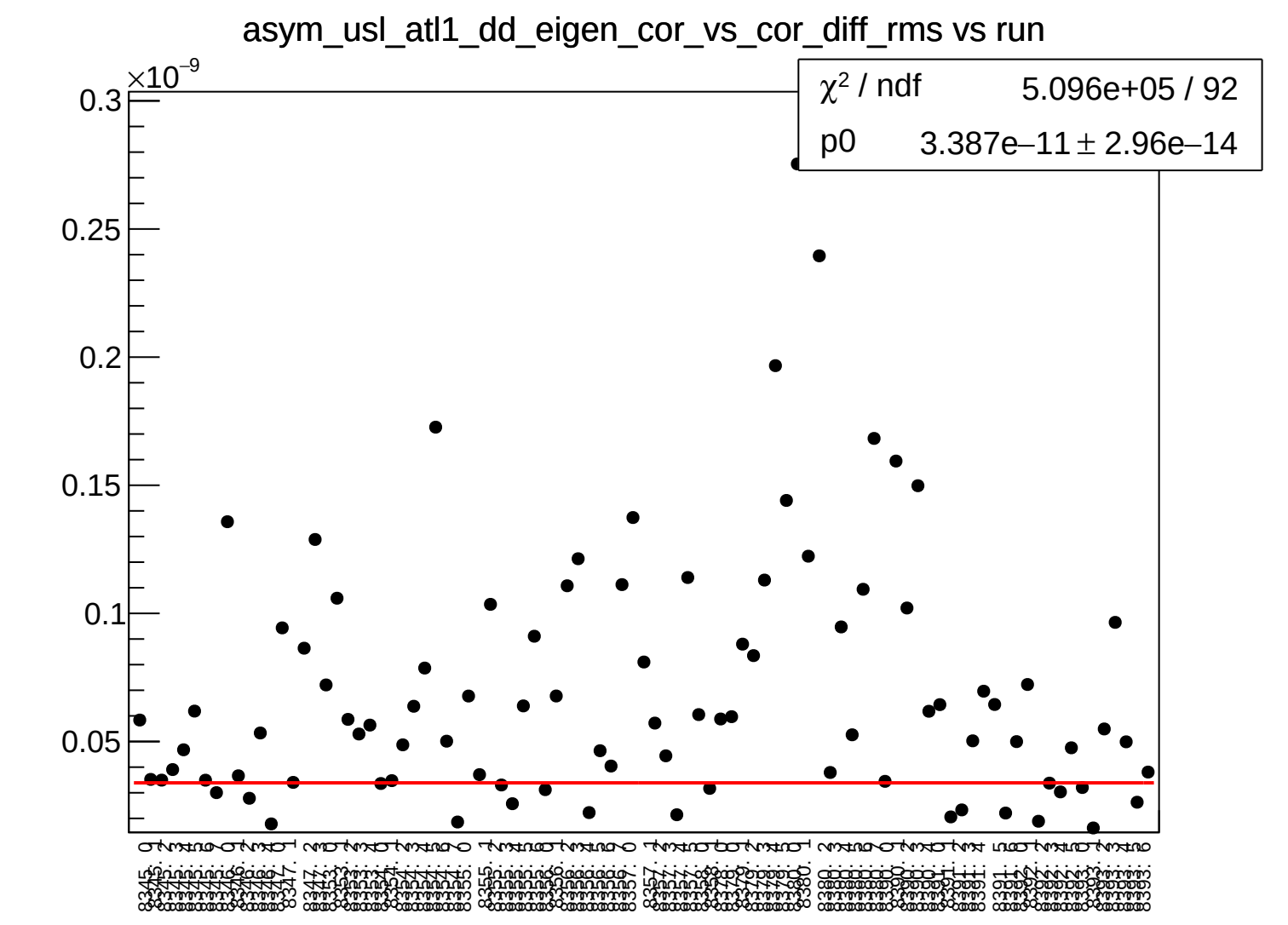

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.097e+05 / 92
p0 21.74 ± 0.01831
120
100
80
60
40
20

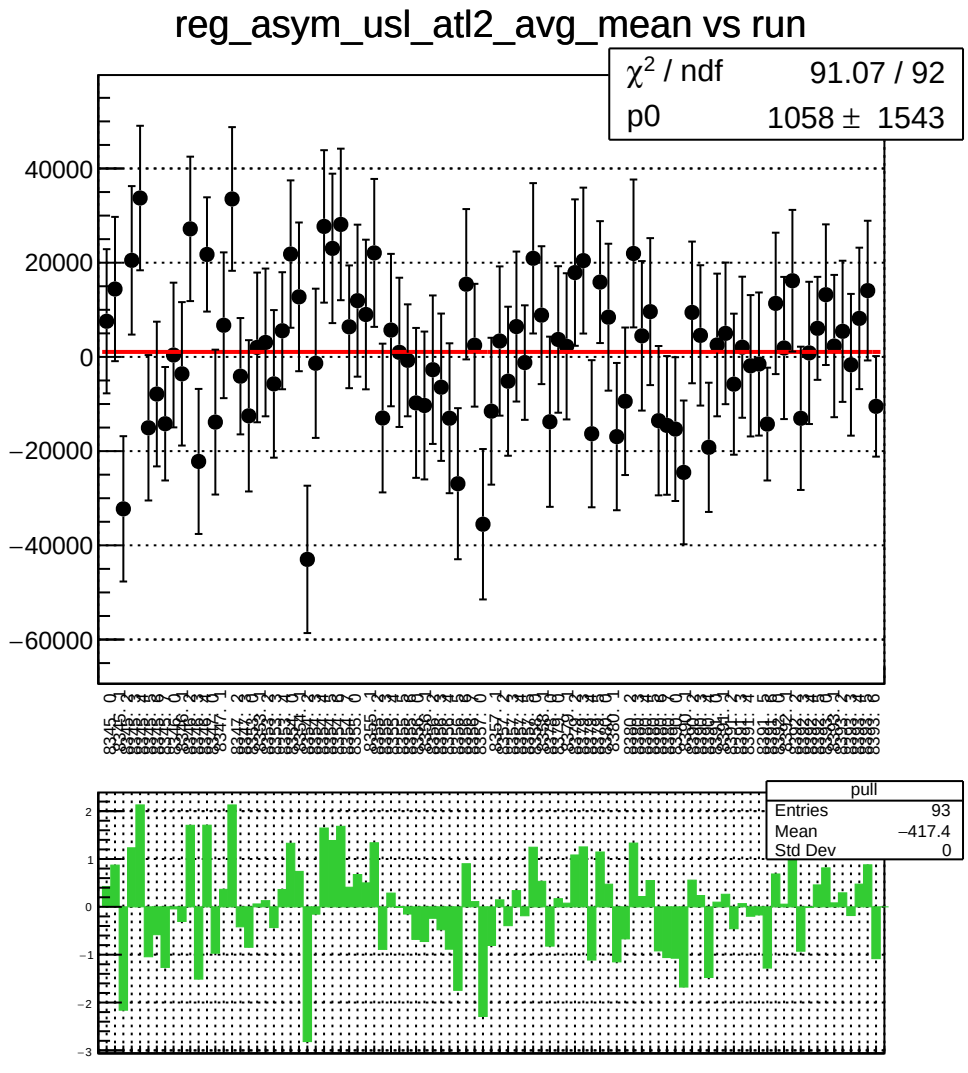

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.36 / 92
p0 −0.0265 ± 0.02589
pull
Entries 93
Mean 105
Std Dev 0

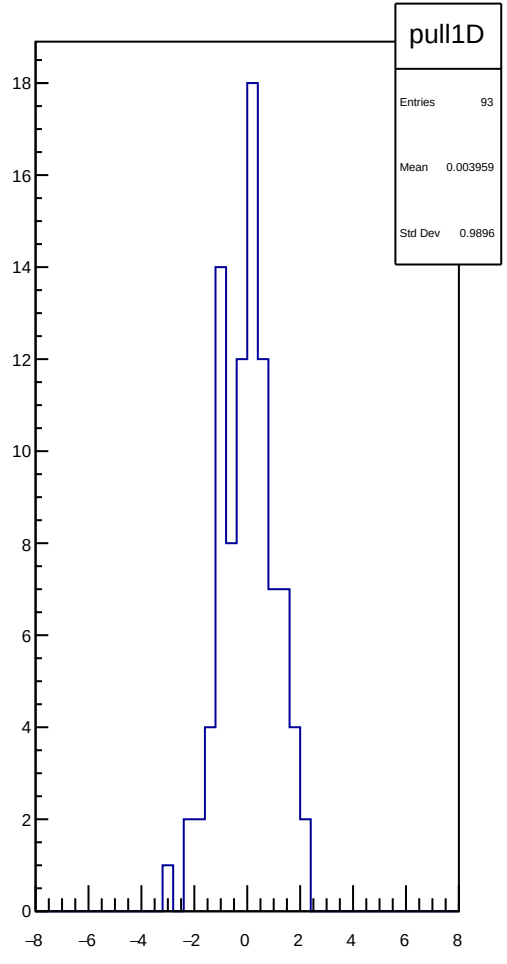

pull1D
Entries 93
Mean −0.1489
Std Dev 0.9521

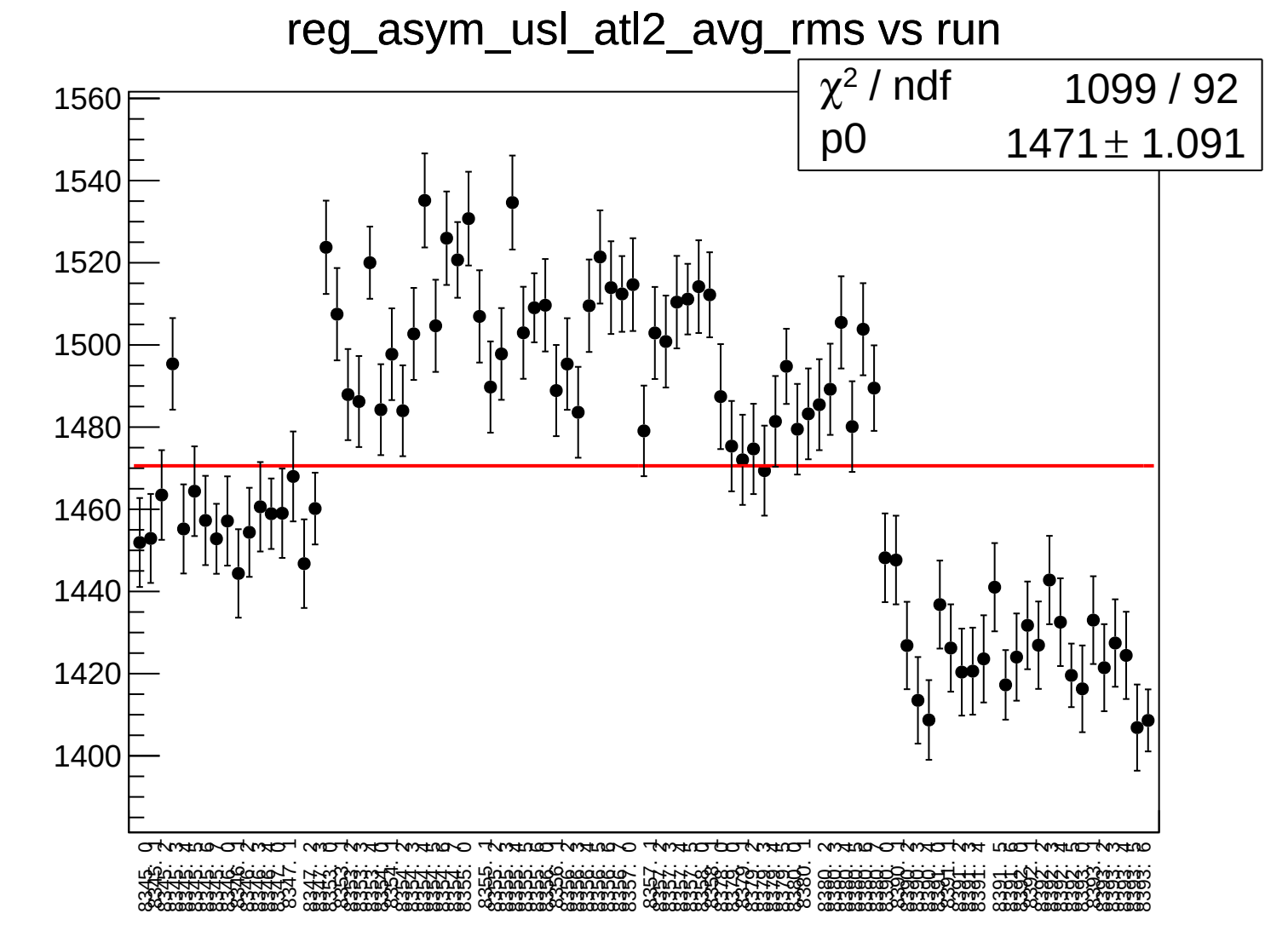

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 4.097e+05 / 92
p0 21.74 ± 0.01831
120
100
80
60
40
20

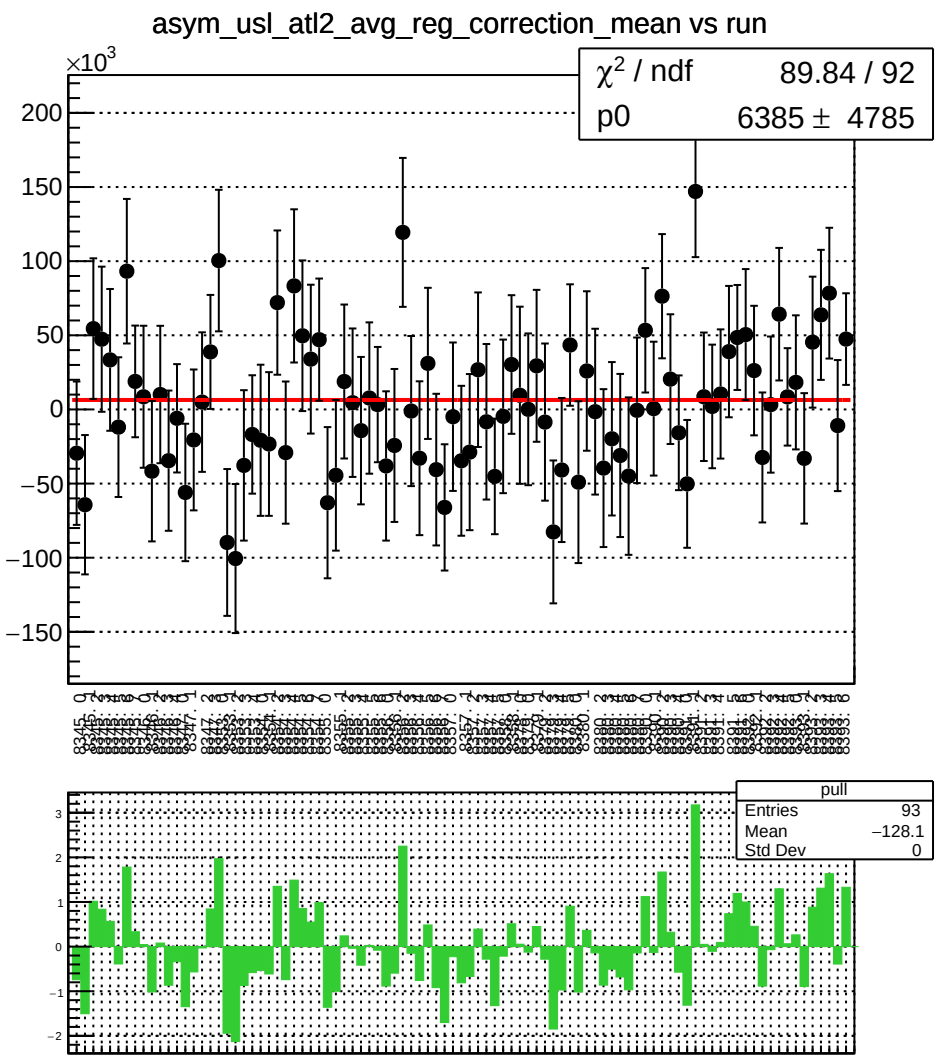

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.22 / 92
p0 −1.357e−14 ± 4.186e−14
pull
Entries 93
Mean 102.7
Std Dev 0
pull1D
Entries 93
Mean 0.05052
Std Dev 0.9503

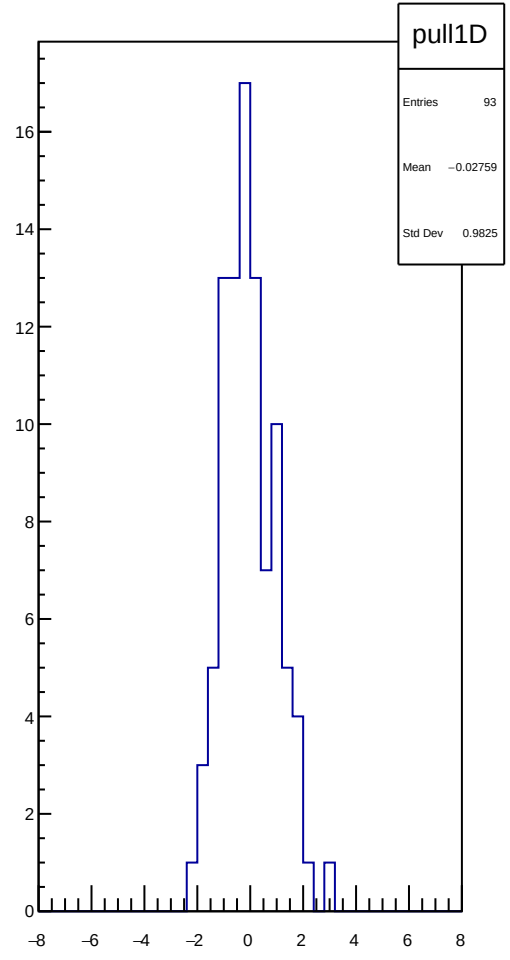

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.096e+05 / 92
p0 3.387e−11 ± 2.96e−14
0.3
0.25
0.2
0.15
0.1
0.05

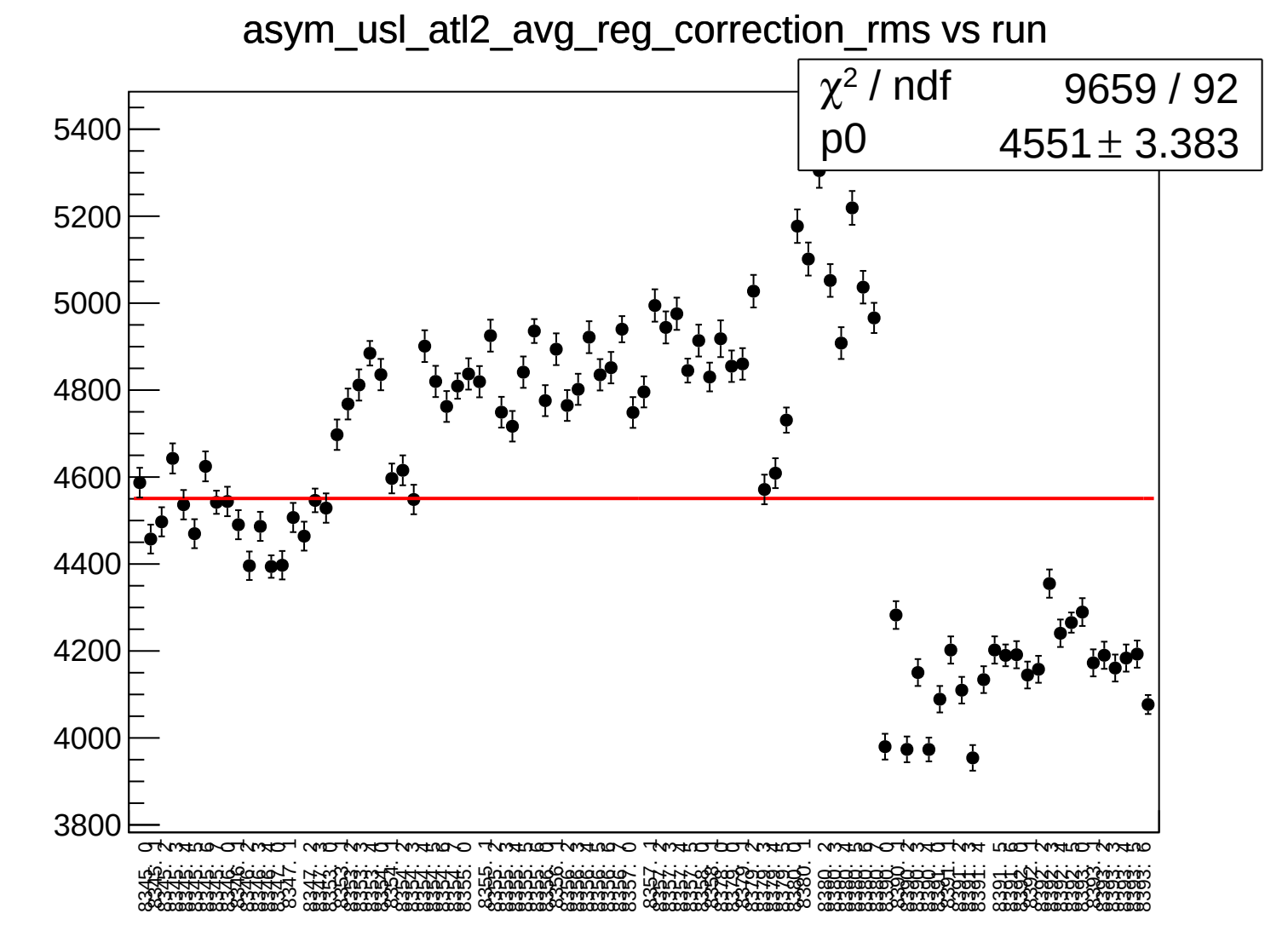

reg_asym_usl_atl2_avg_mean vs run
χ² / ndf 91.07 / 92
p0 1058 ± 1543
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −417.4
Std Dev 0
2
1
0
−1
−2
−3

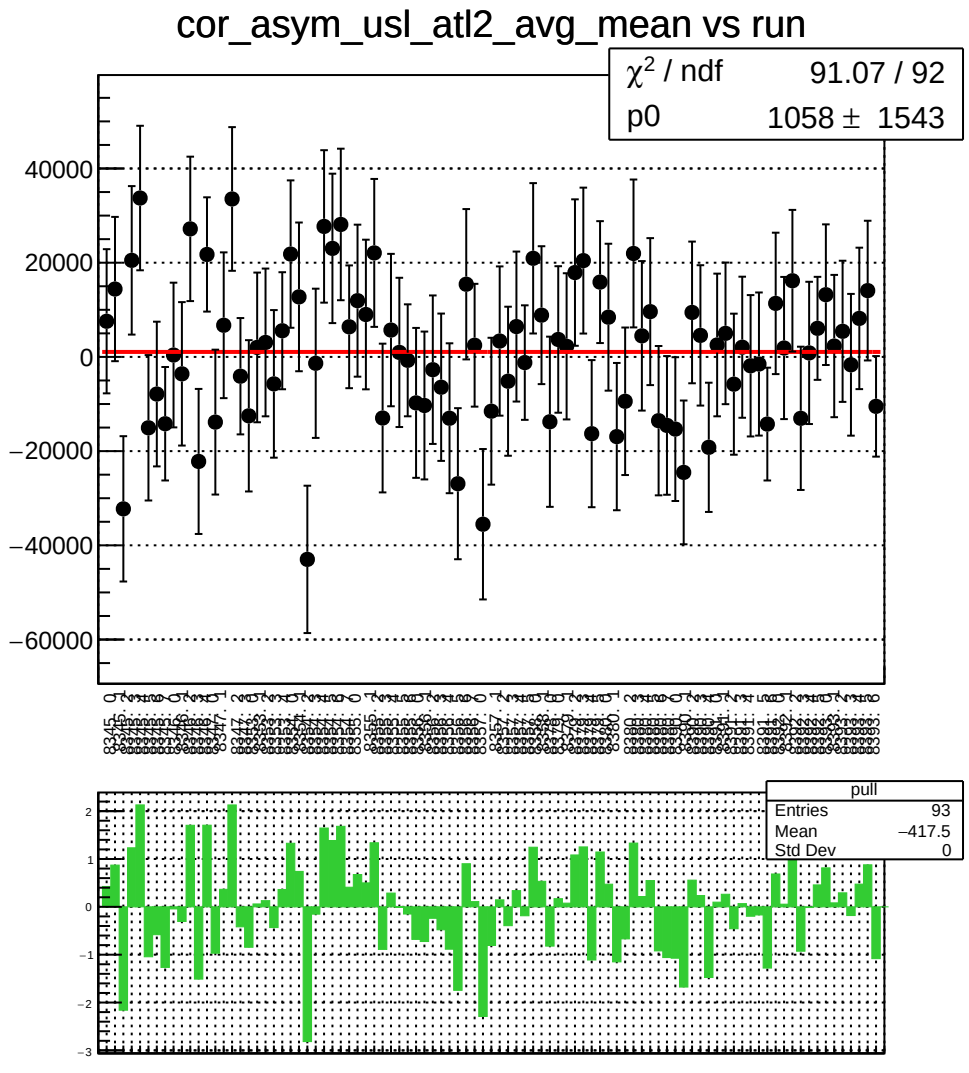

pull1D
Entries 93
Mean 0.003959
Std Dev 0.9896
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

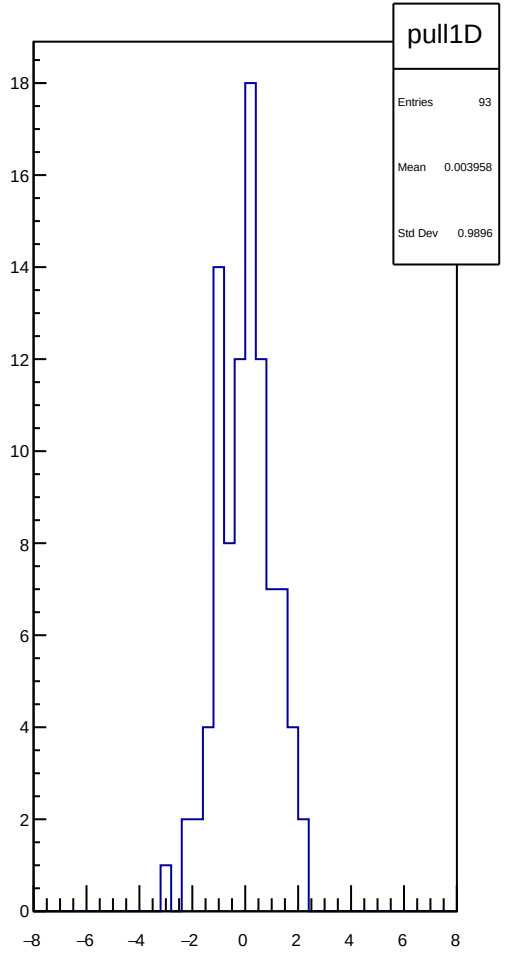

reg_asym_usl_atl2_avg_rms vs run
χ² / ndf 1099 / 92
p0 1471 ± 1.091
1560
1540
1520
1500
1480
1460
1440
1420
1400

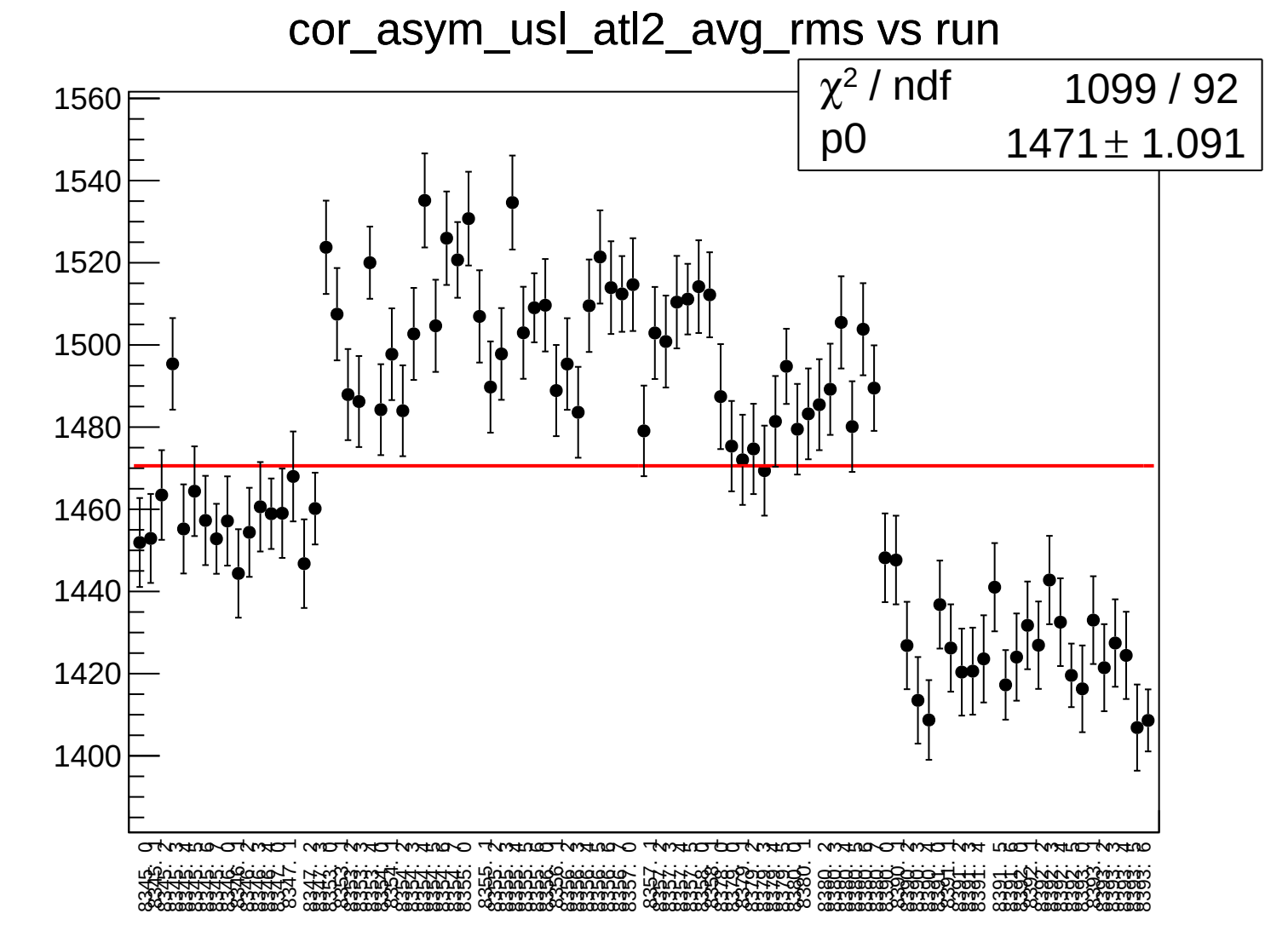

asym_usl_atl2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 89.84 / 92
p0 6385 ± 4785
pull
Entries 93
Mean −128.1
Std Dev 0

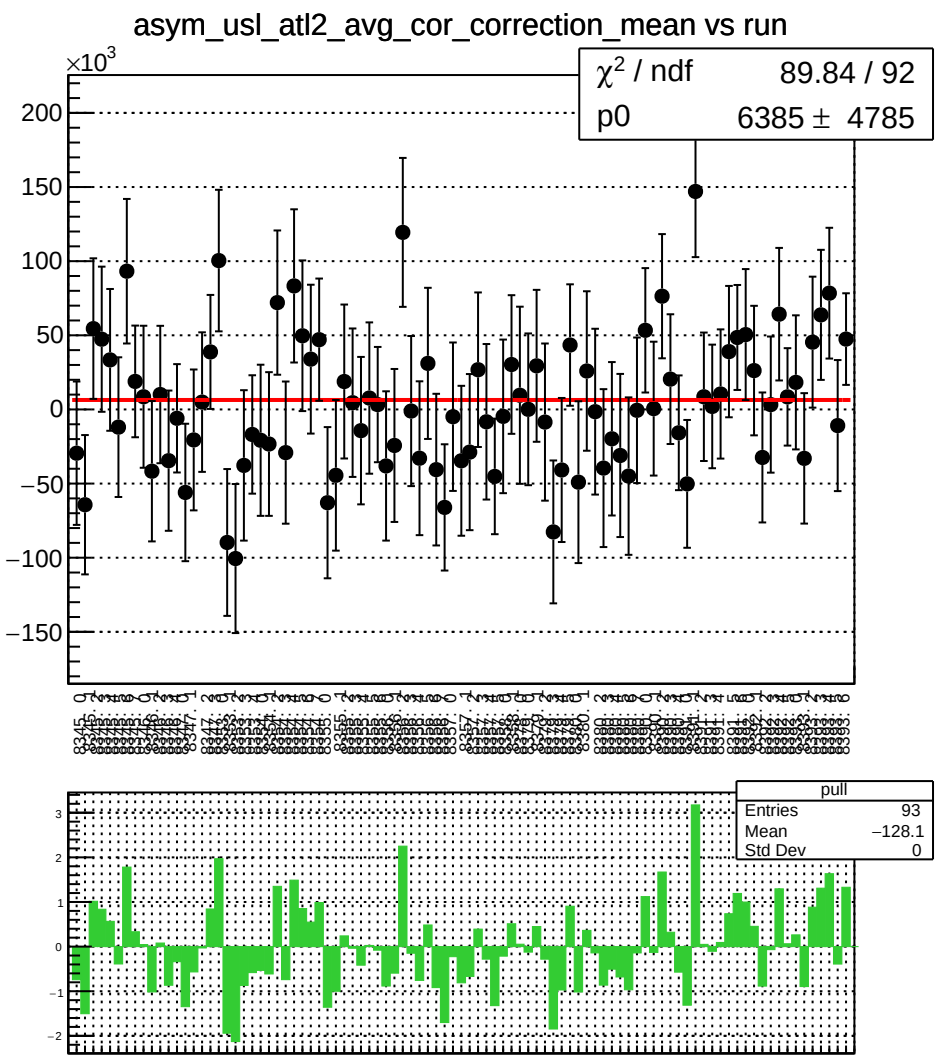

pull1D
Entries 93
Mean −0.02759
Std Dev 0.9825

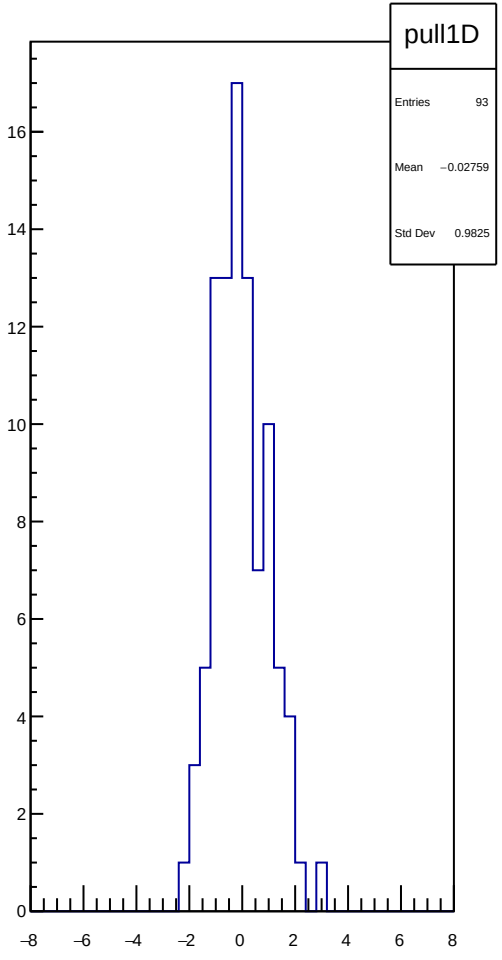

asym_usl_atl2_avg_reg_correction_rms vs run
χ² / ndf 9659 / 92
p0 4551 ± 3.383
5400
5200
5000
4800
4600
4400
4200
4000
3800

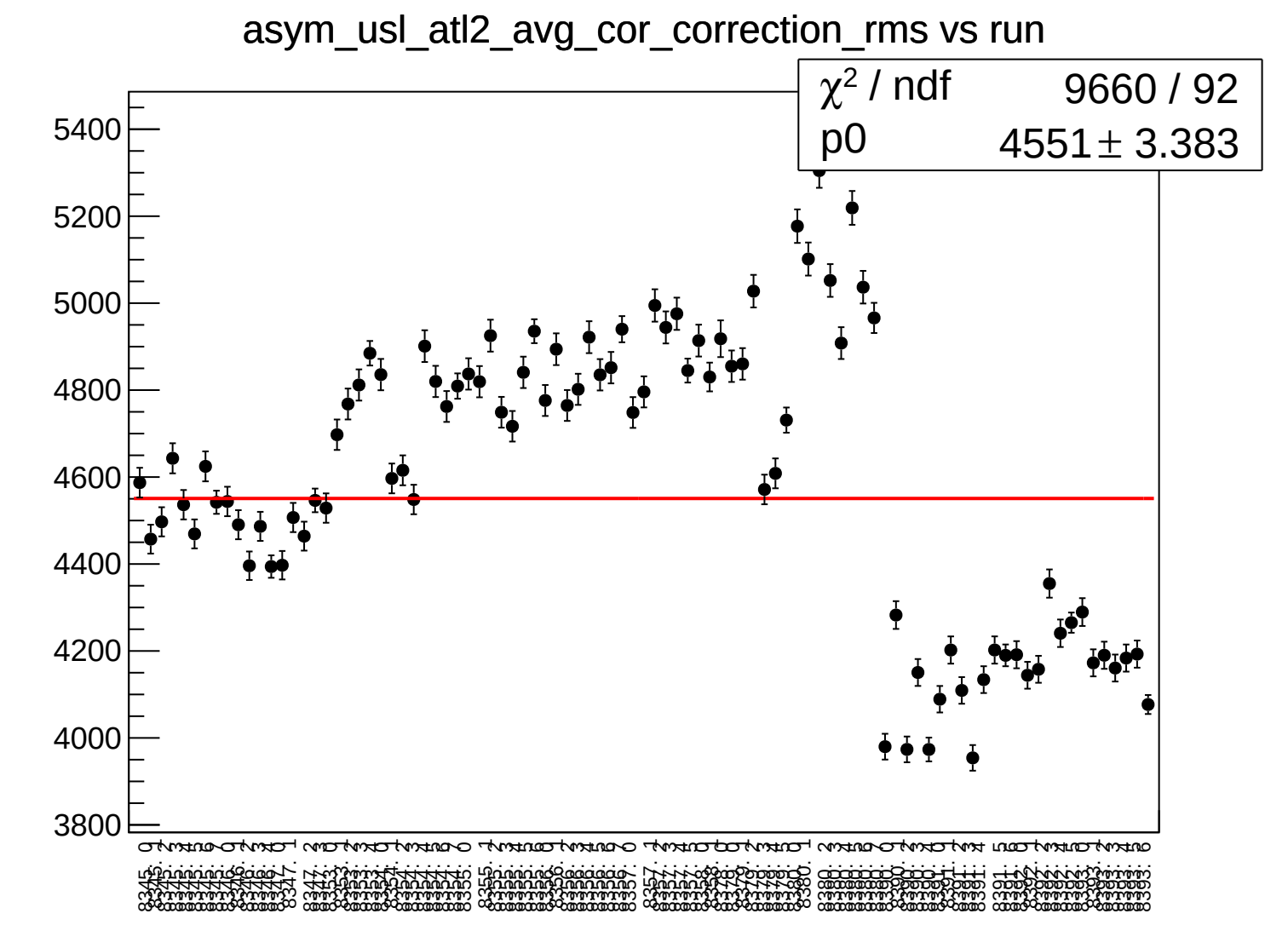

cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 91.07 / 92
p0 1058 ± 1543
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −417.5
Std Dev 0
2
1
0
−1
−2
−3

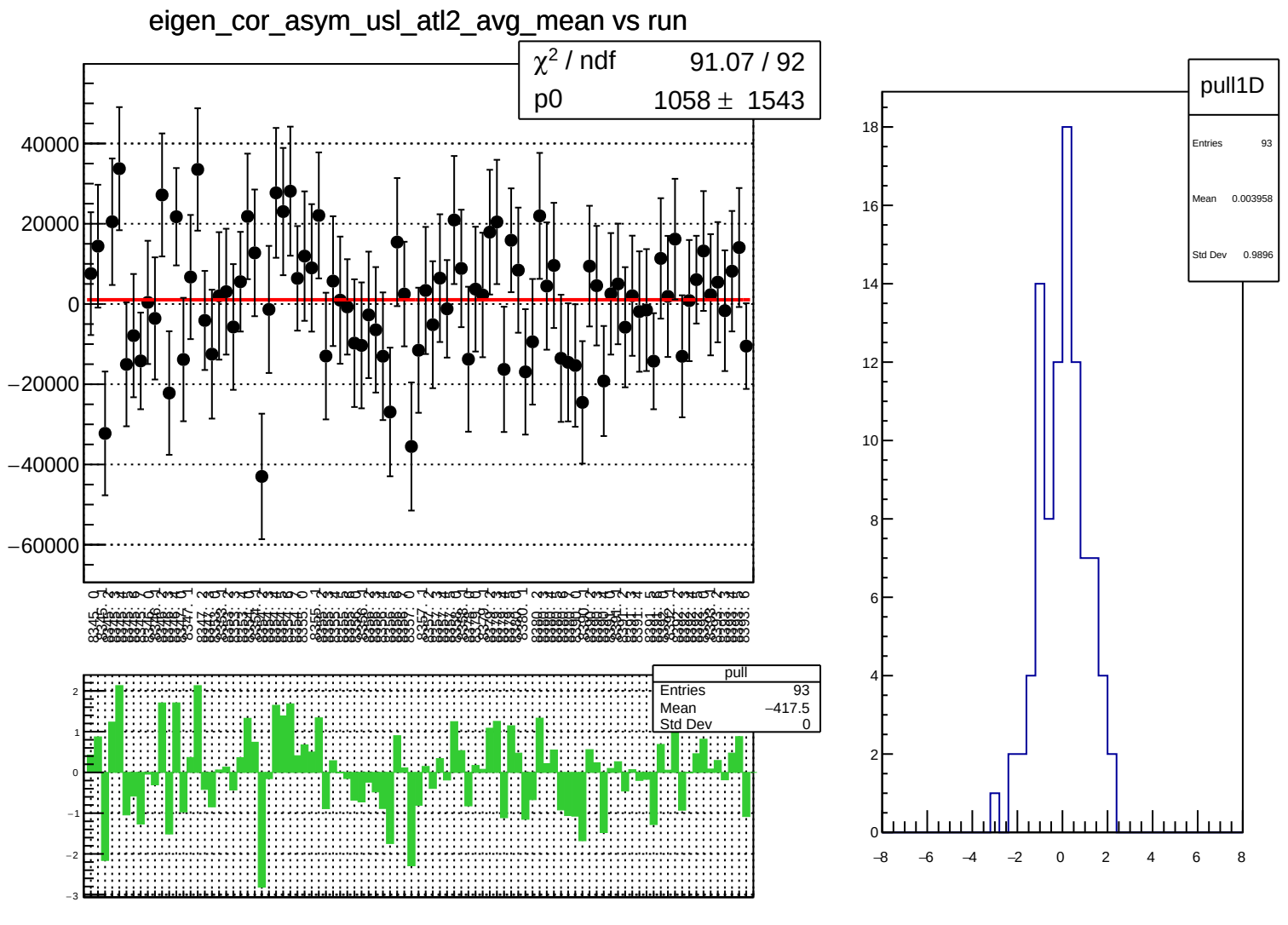

pull1D
Entries 93
Mean 0.003958
Std Dev 0.9896
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

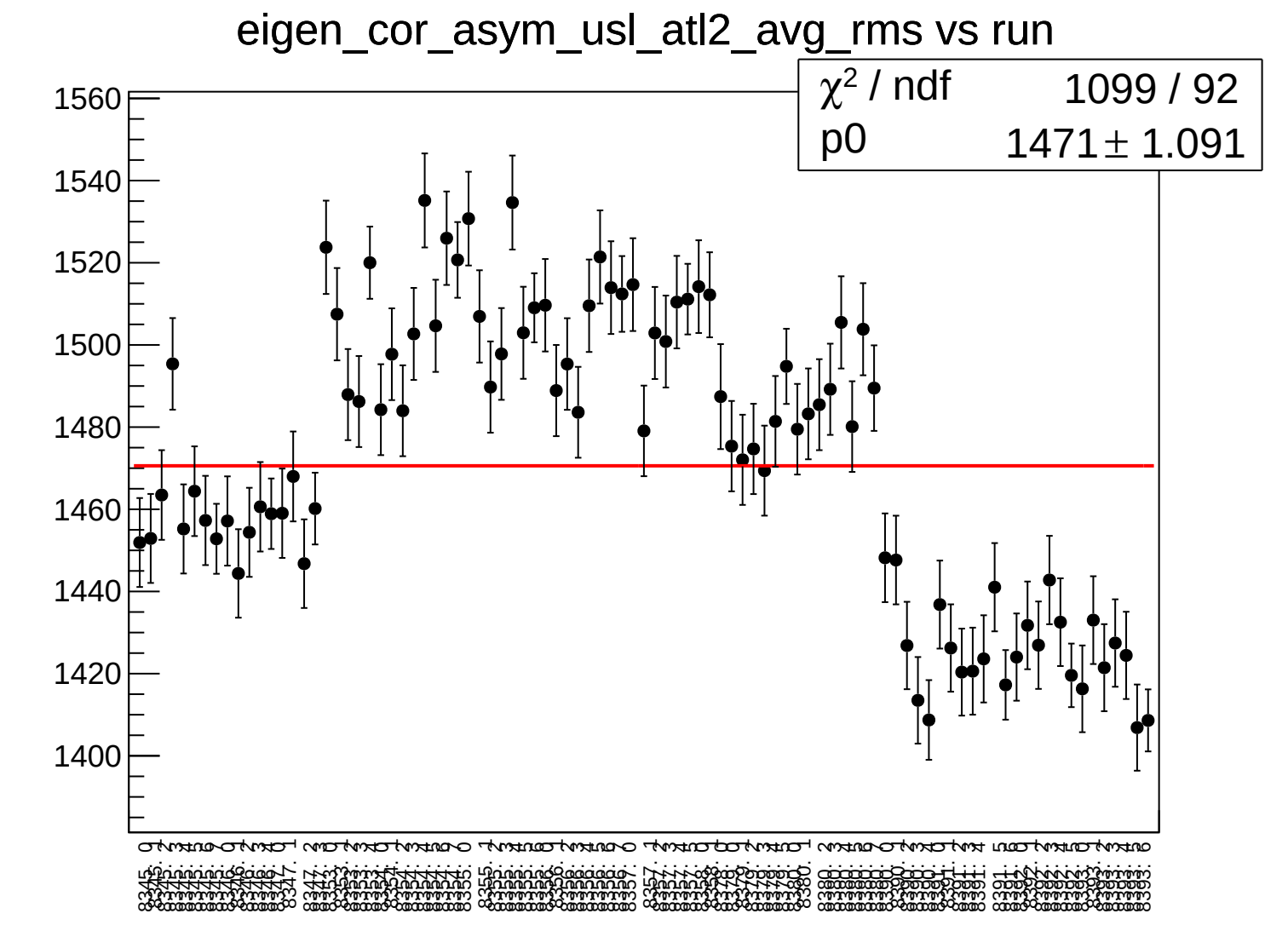

cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 1099 / 92
p0 1471 ± 1.091
1560
1540
1520
1500
1480
1460
1440
1420
1400

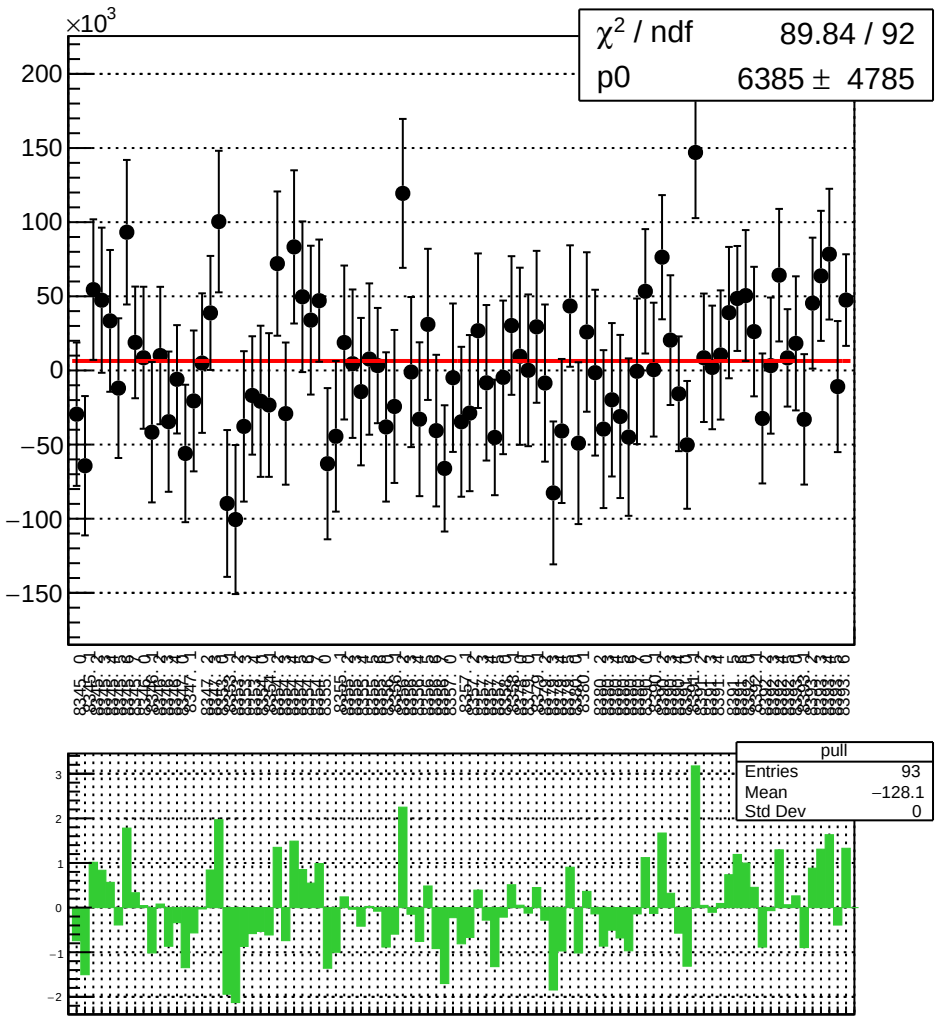

asym_usl_atl2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 89.84 / 92
p0 6385 ± 4785
pull
Entries 93
Mean −128.1
Std Dev 0

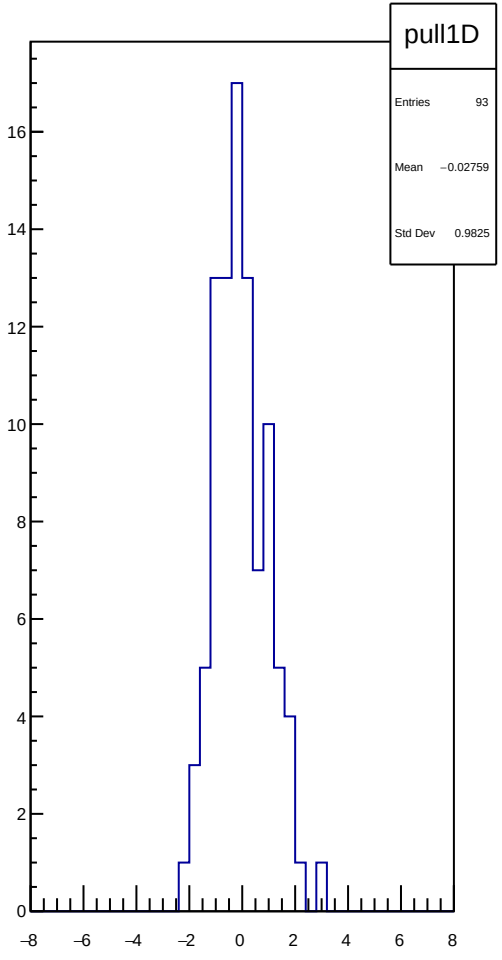

pull1D
Entries 93
Mean −0.02759
Std Dev 0.9825

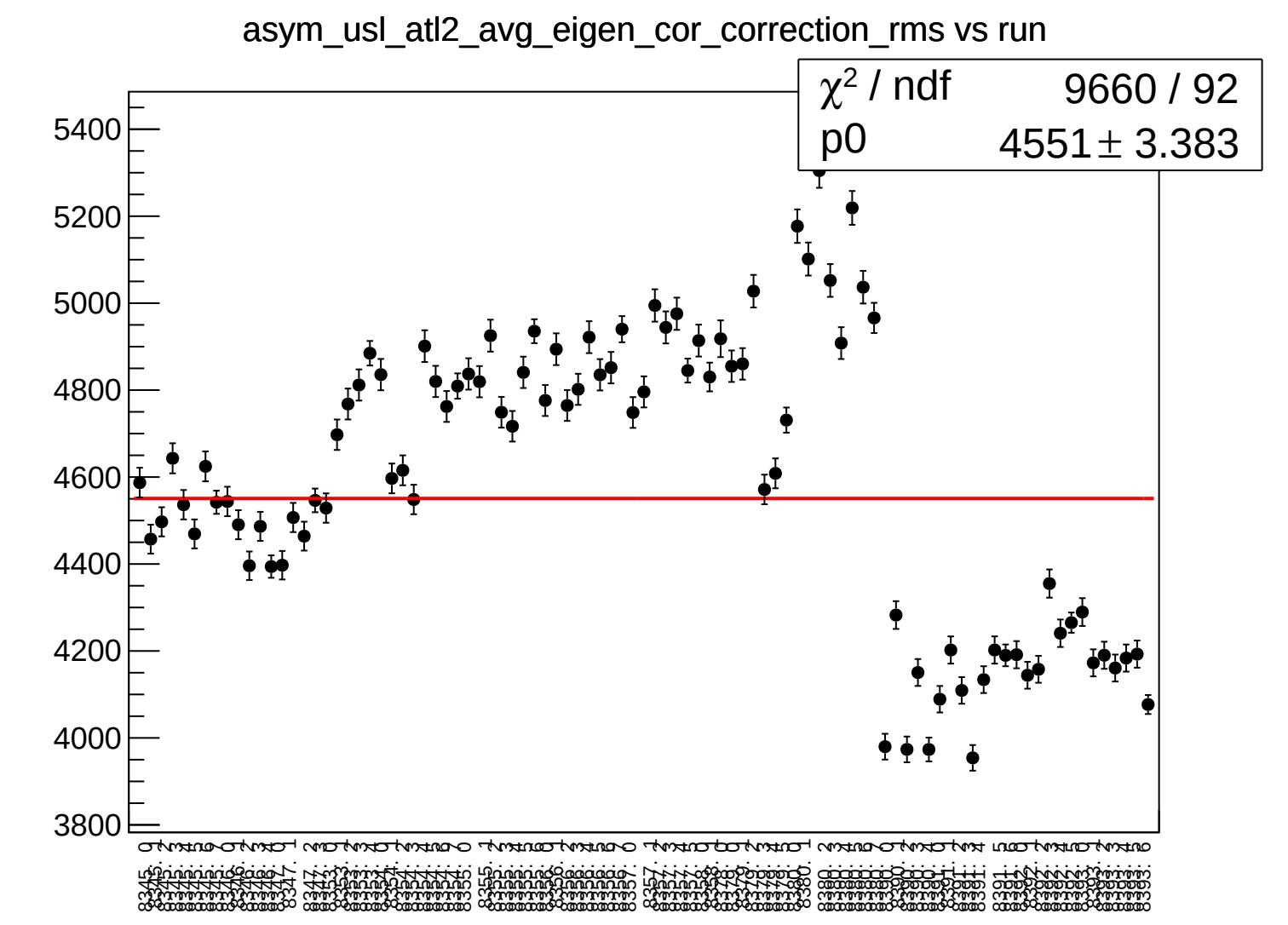

asym_usl_atl2_avg_cor_correction_rms vs run
χ² / ndf 9660 / 92
p0 4551 ± 3.383
5400
5200
5000
4800
4600
4400
4200
4000
3800

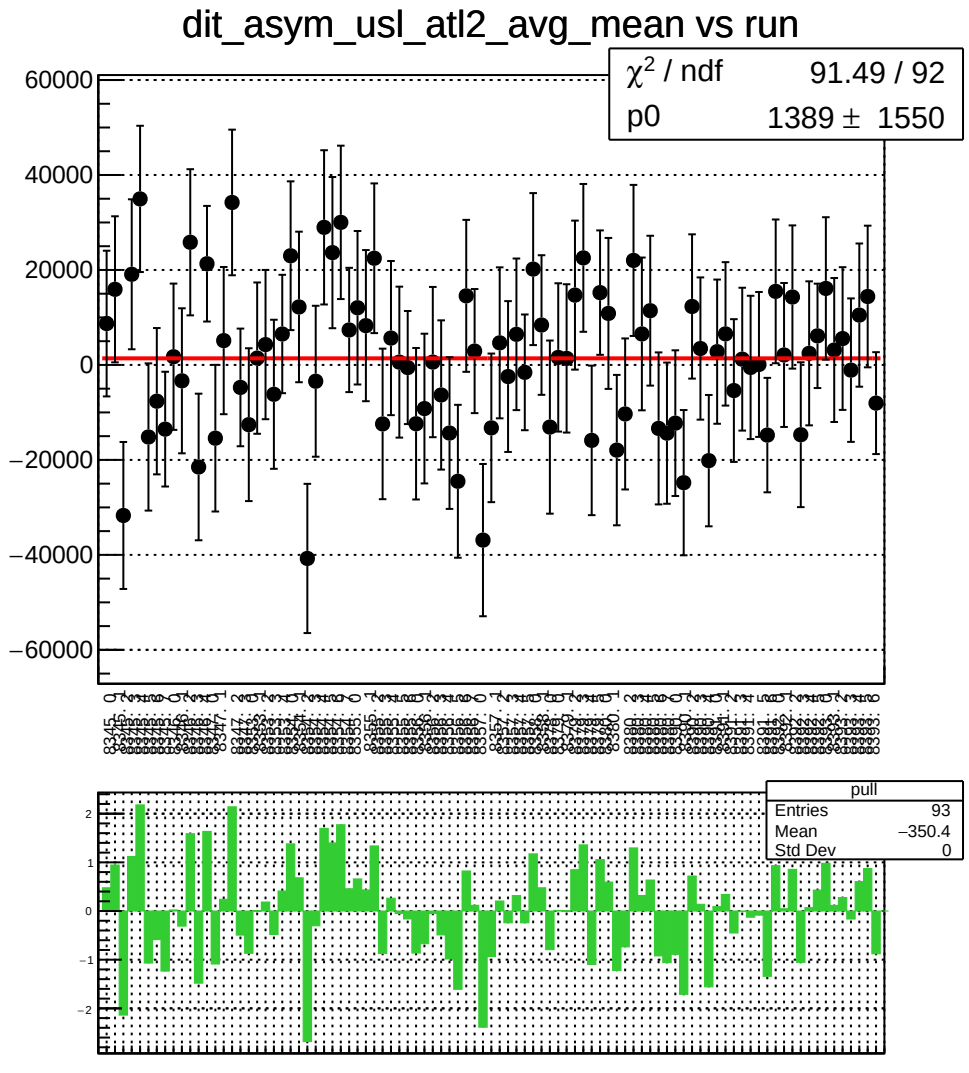

eigen_cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 91.07 / 92
p0 1058 ± 1543
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −417.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.003958
Std Dev 0.9896
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

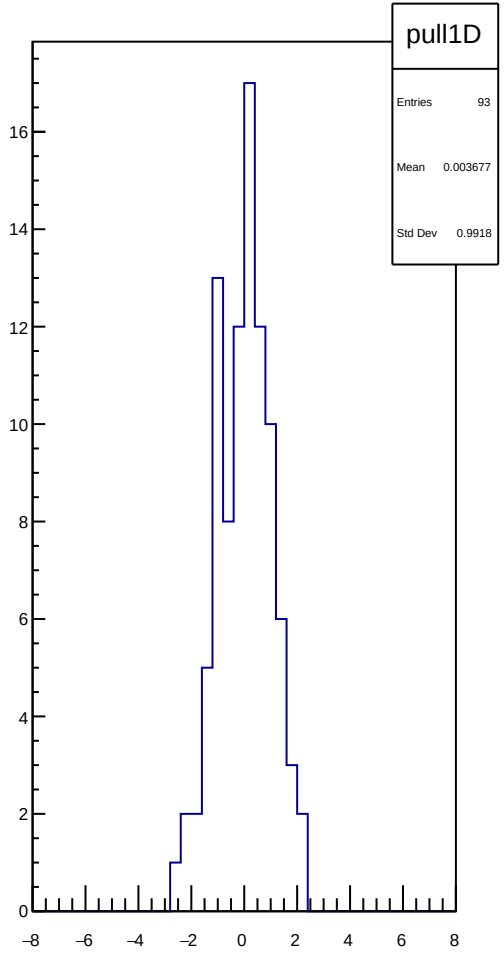

eigen_cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 1099 / 92
p0 1471 ± 1.091
1560
1540
1520
1500
1480
1460
1440
1420
1400

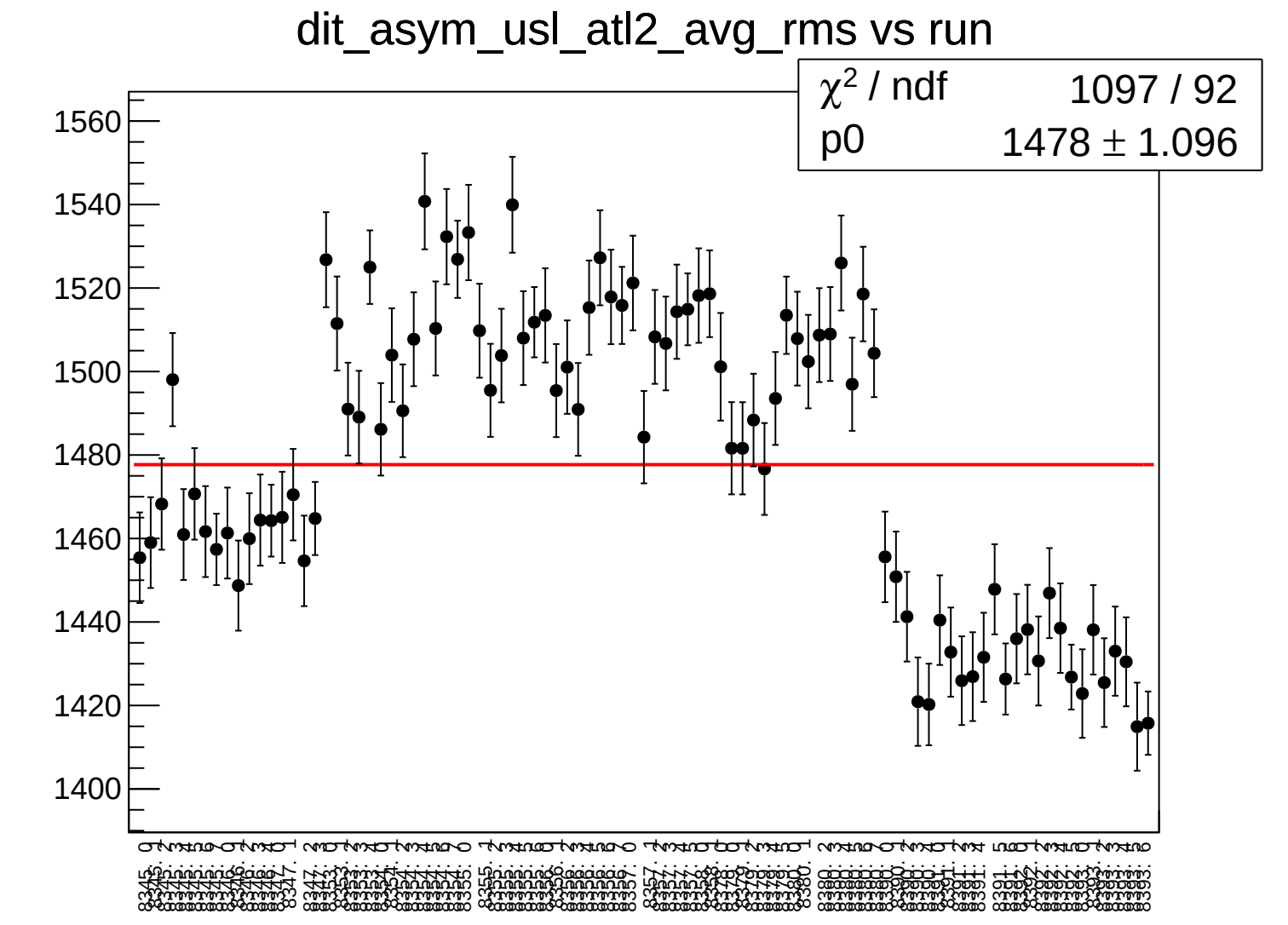

asym_usl_atl2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 89.84 / 92
p0 6385 ± 4785
pull
Entries 93
Mean −128.1
Std Dev 0

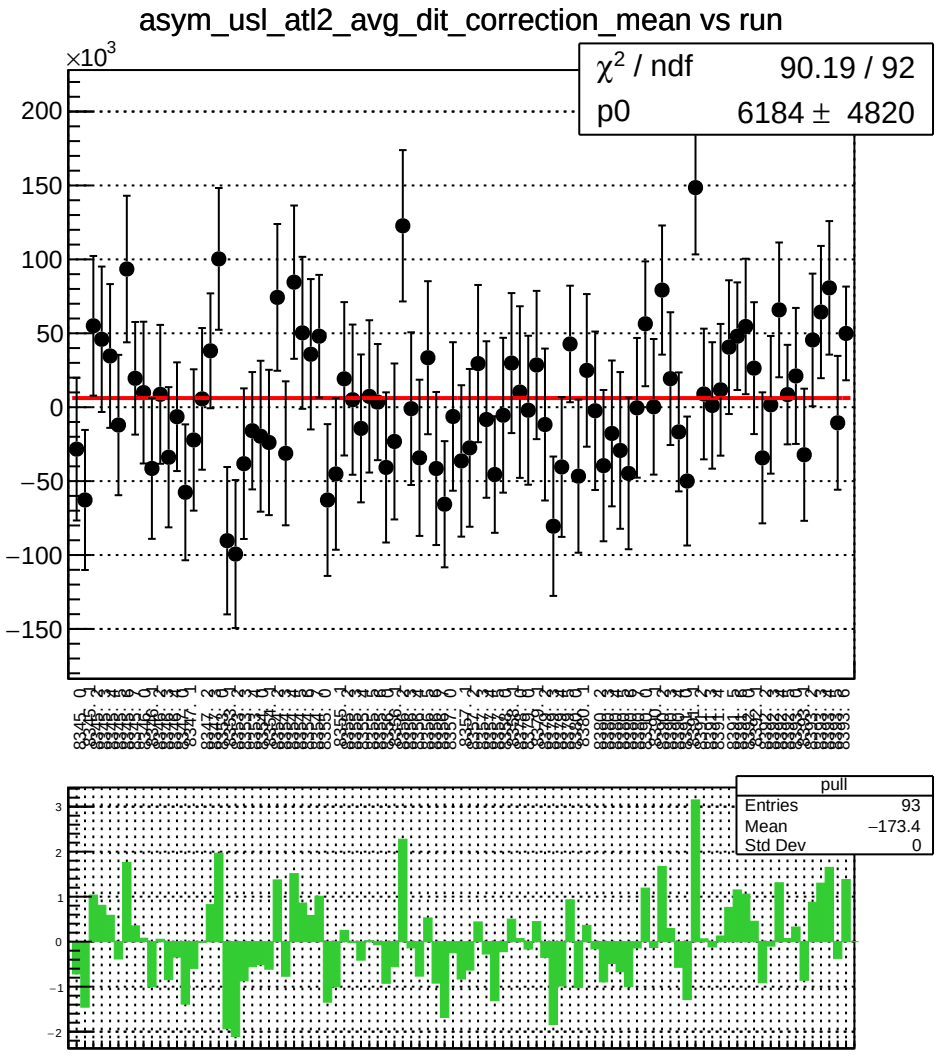

pull1D
Entries 93
Mean −0.02759
Std Dev 0.9825

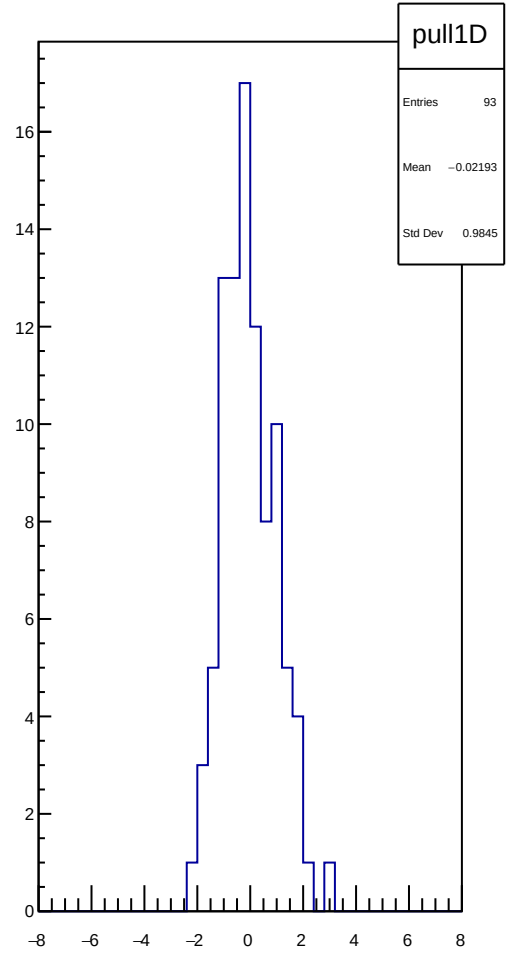

asym_usl_atl2_avg_eigen_cor_correction_rms vs run
χ² / ndf 9660 / 92
p0 4551 ± 3.383
5400
5200
5000
4800
4600
4400
4200
4000
3800

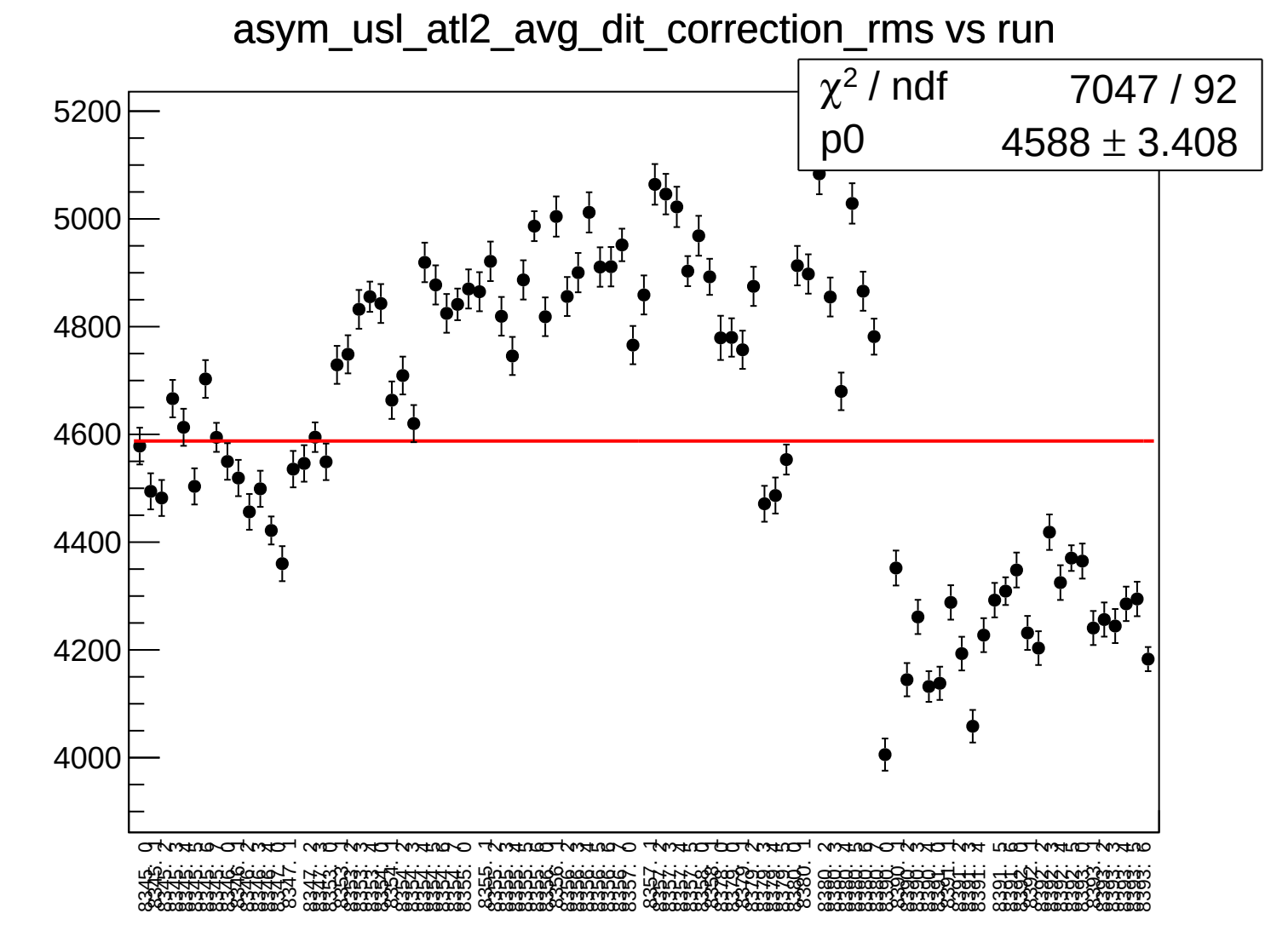

dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 91.49 / 92
p0 1389 ± 1550
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −350.4
Std Dev 0
2
1
0
−1
−2

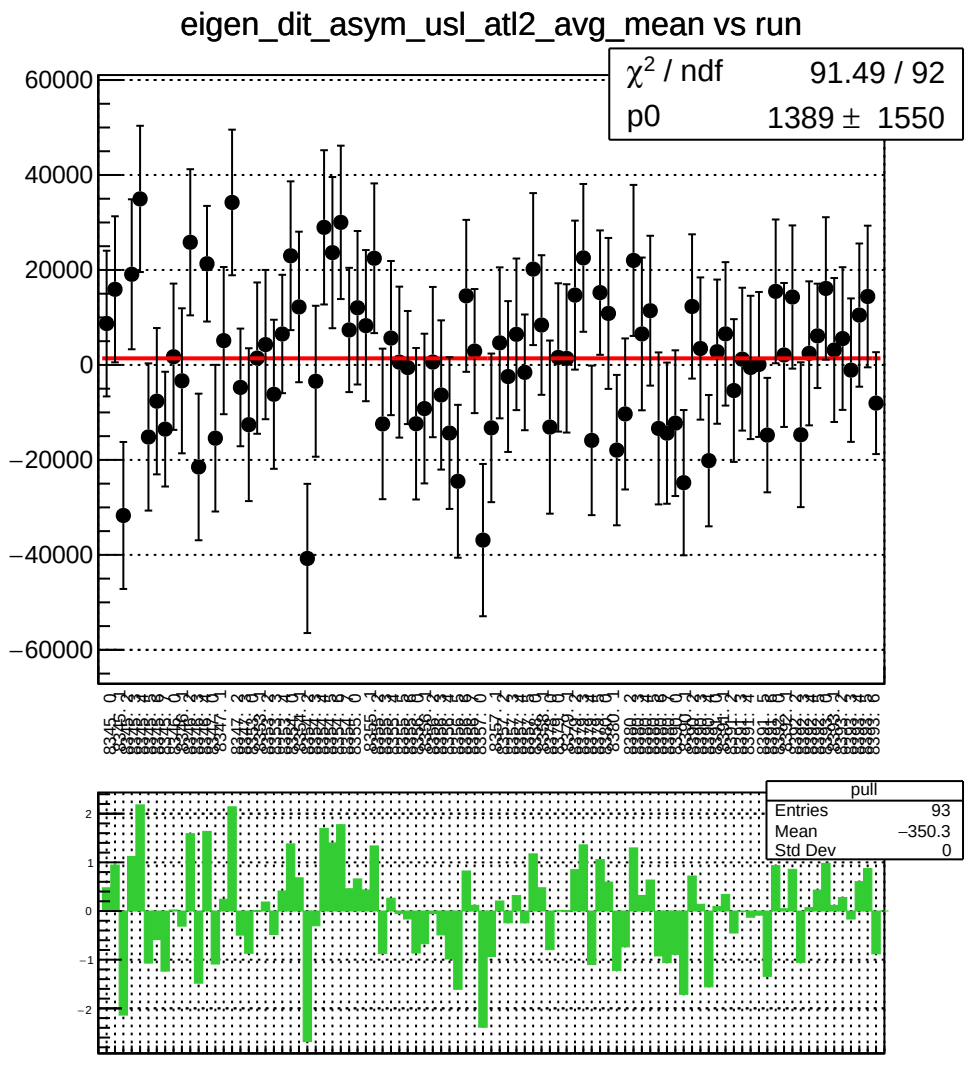

pull1D
Entries 93
Mean 0.003677
Std Dev 0.9918
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

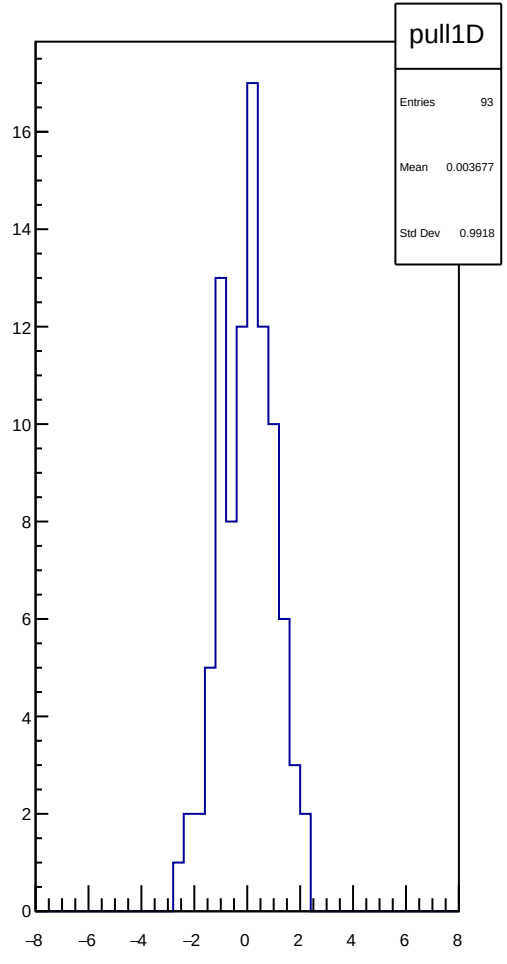

dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 1097 / 92
p0 1478 ± 1.096
1560
1540
1520
1500
1480
1460
1440
1420
1400

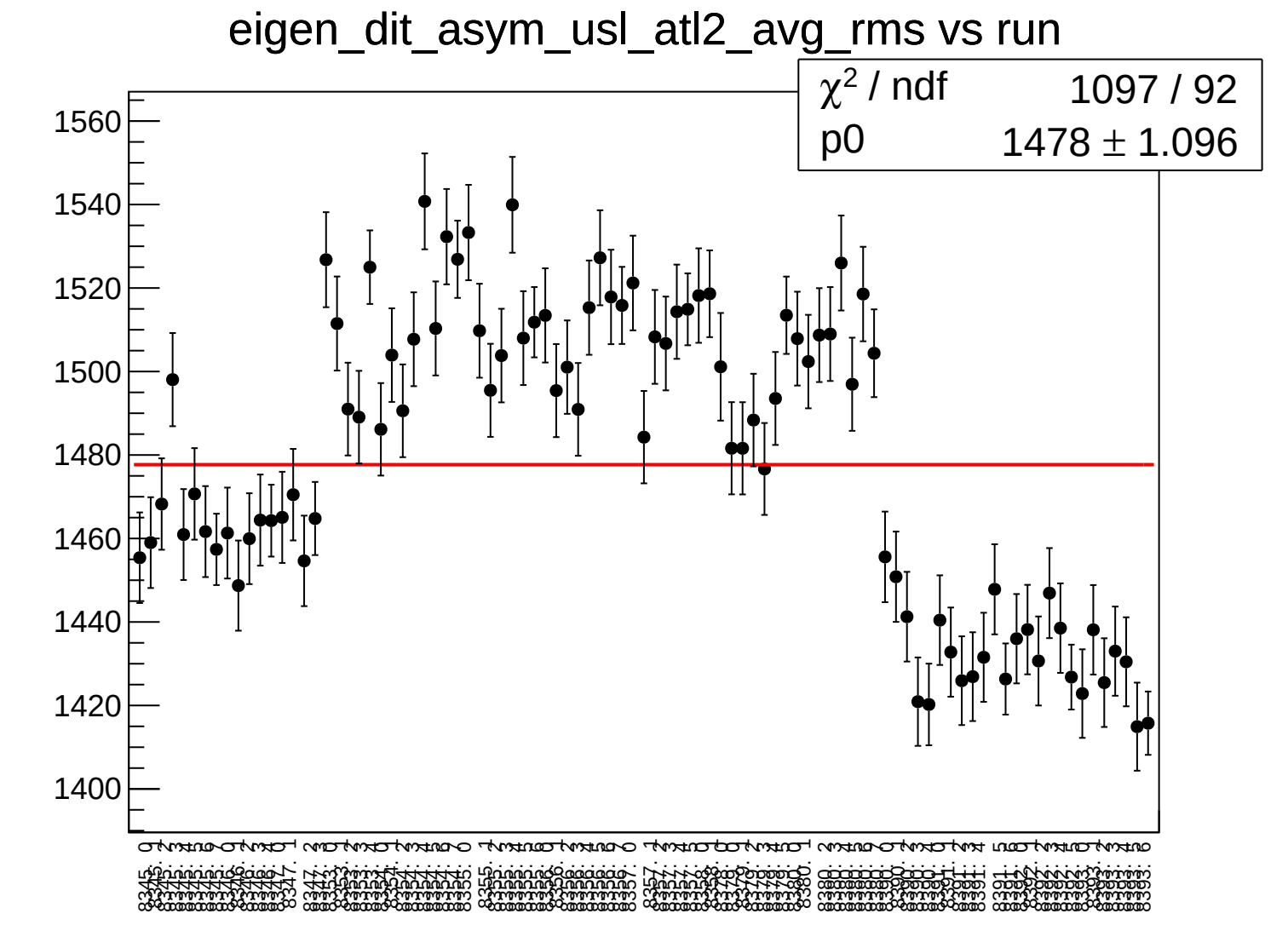

asym_usl_atl2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 90.19 / 92
p0 6184 ± 4820
pull
Entries 93
Mean −173.4
Std Dev 0

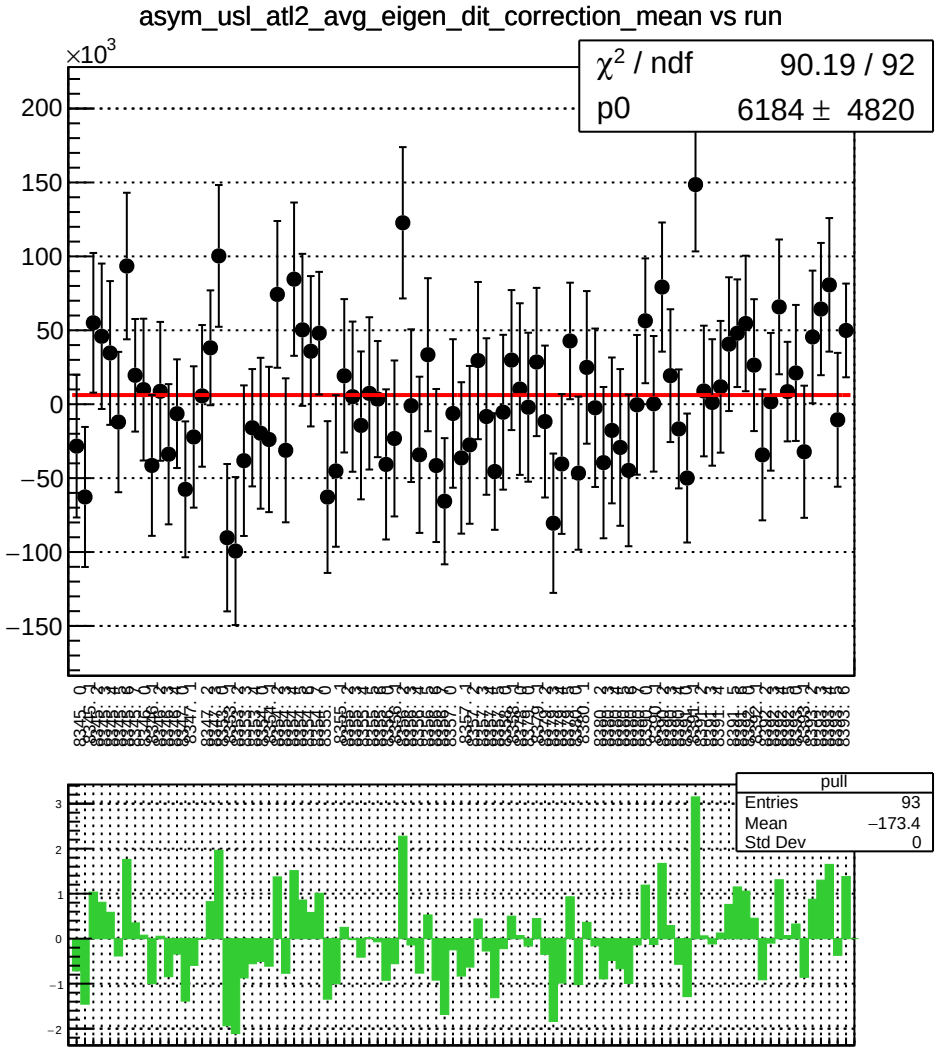

pull1D
Entries 93
Mean −0.02193
Std Dev 0.9845

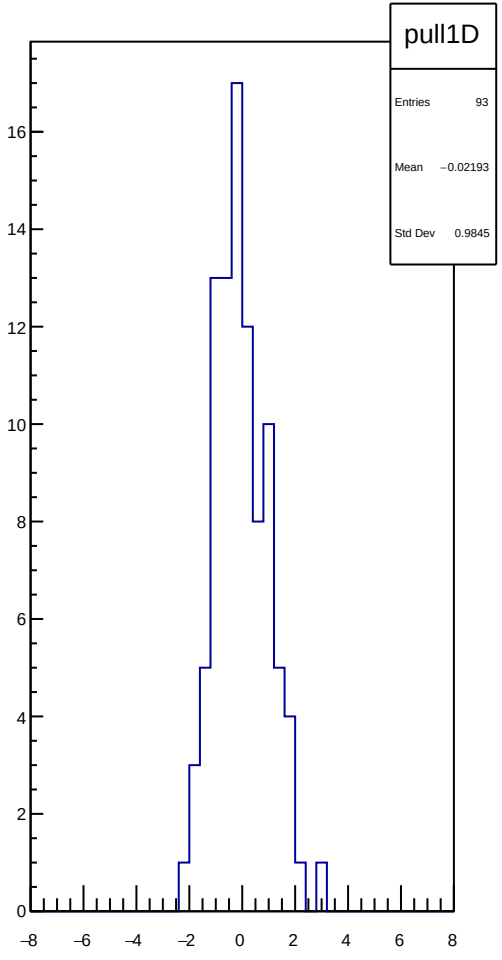

asym_usl_atl2_avg_dit_correction_rms vs run
χ² / ndf 7047 / 92
p0 4588 ± 3.408
5200
5000
4800
4600
4400
4200
4000

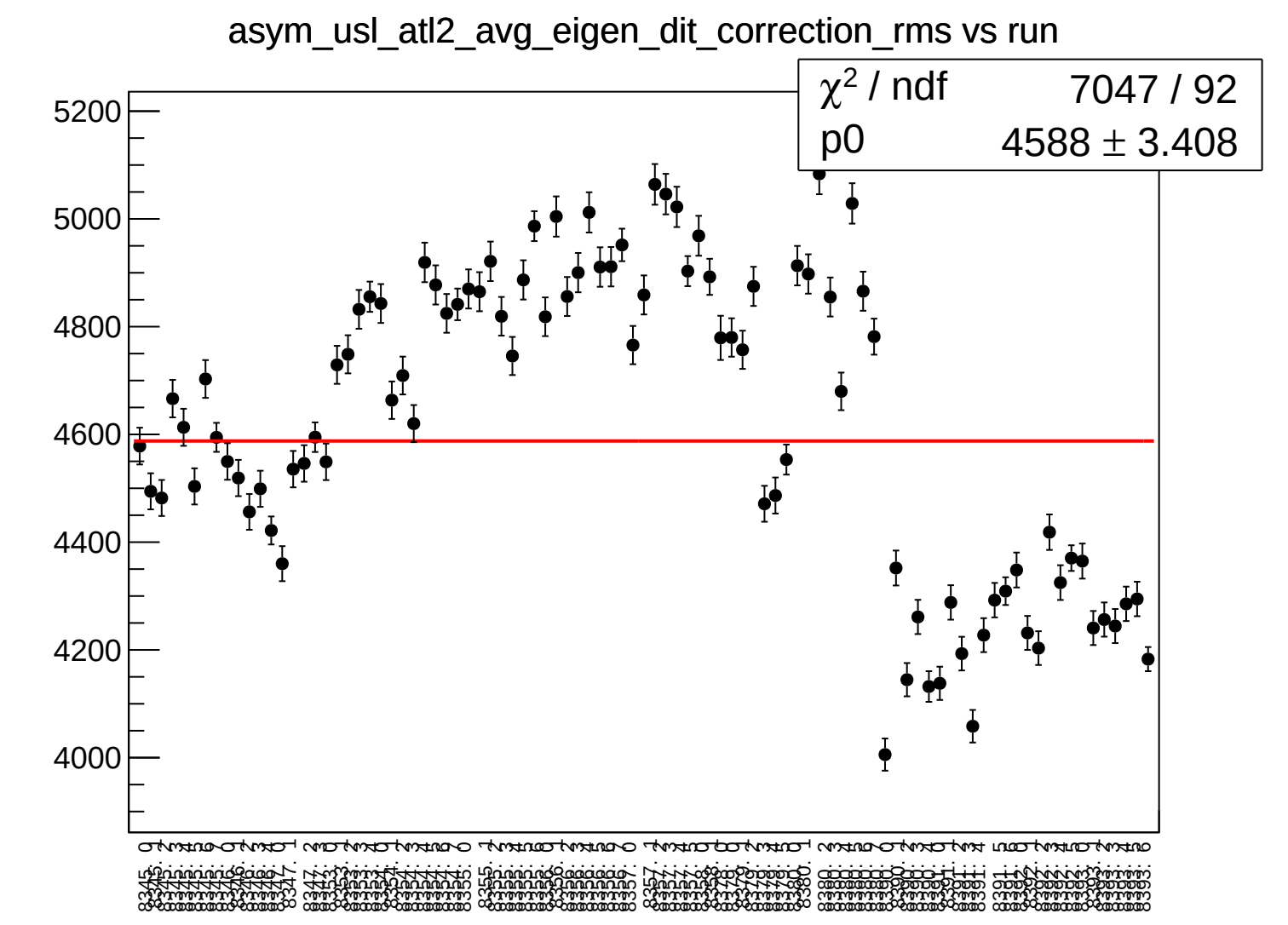

eigen_dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 91.49 / 92
p0 1389 ± 1550
pull
Entries 93
Mean −350.3
Std Dev 0

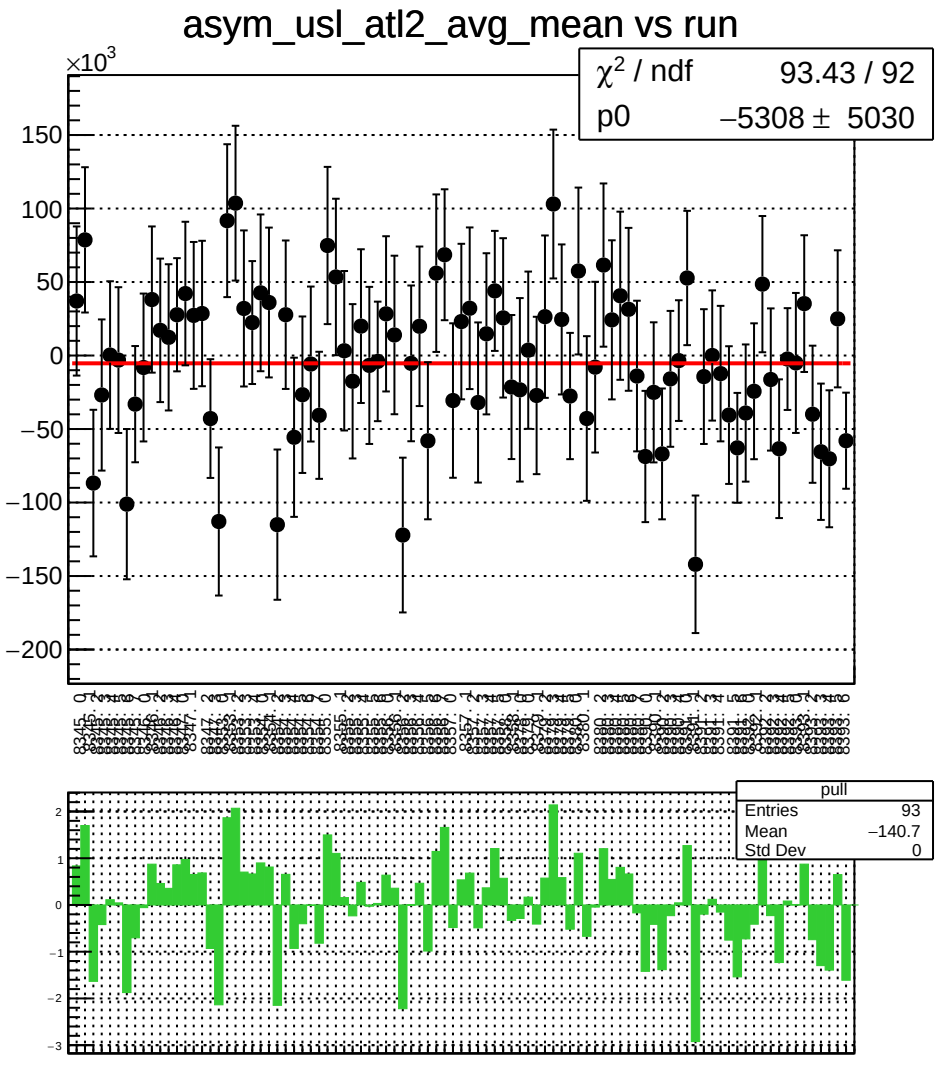

pull1D
Entries 93
Mean 0.003677
Std Dev 0.9918

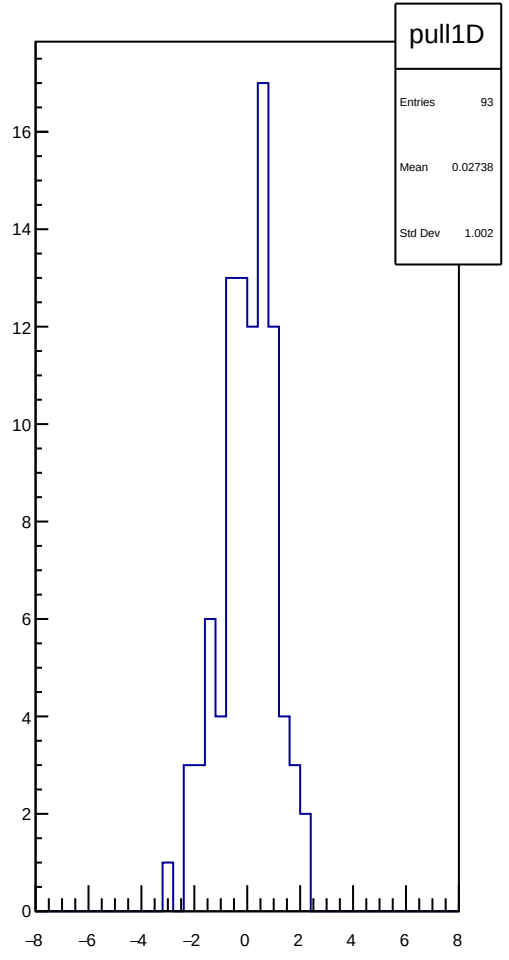

eigen_dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 1097 / 92
p0 1478 ± 1.096
1560
1540
1520
1500
1480
1460
1440
1420
1400

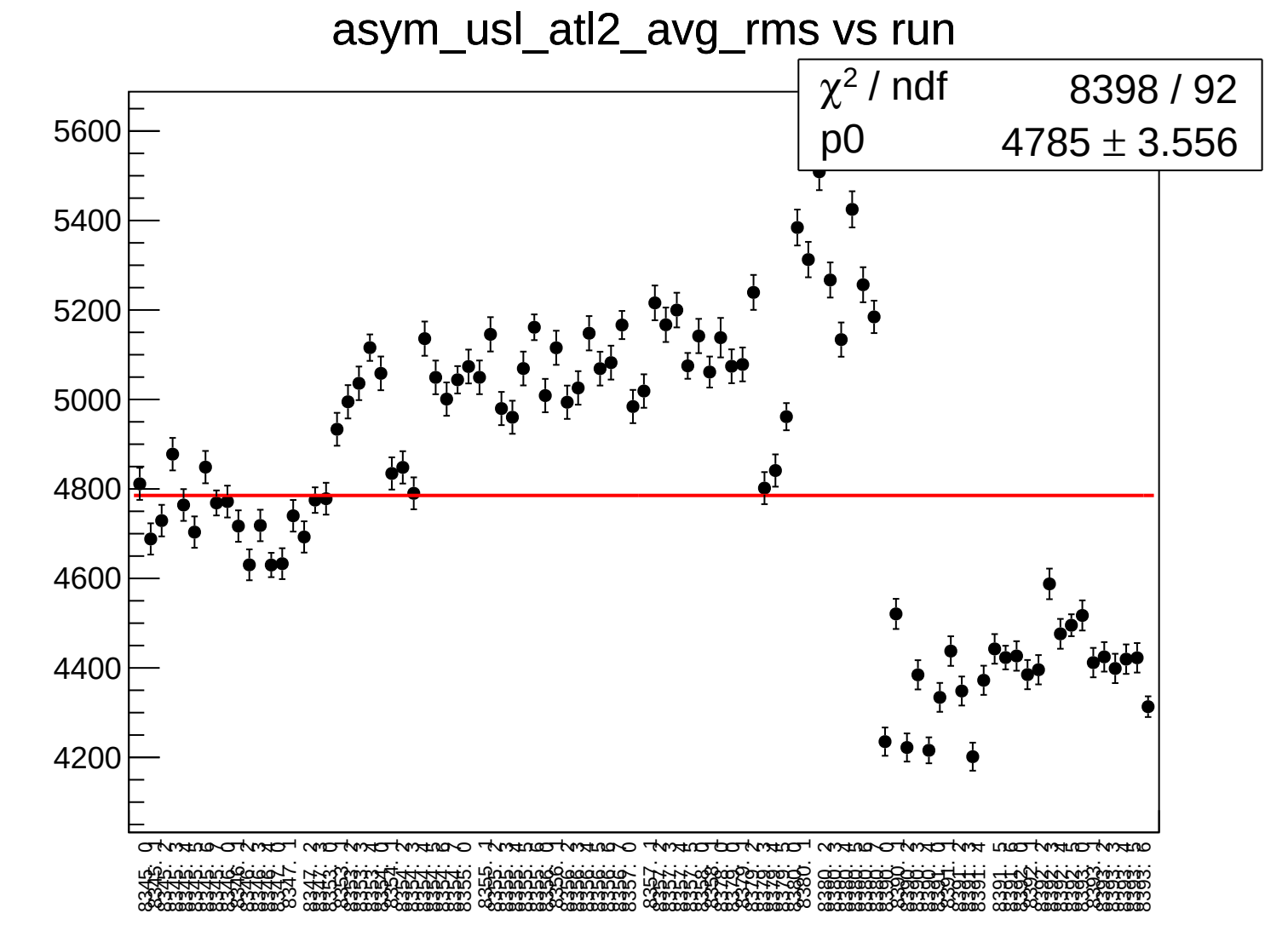

asym_usl_atl2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 90.19 / 92
p0 6184 ± 4820
pull
Entries 93
Mean −173.4
Std Dev 0

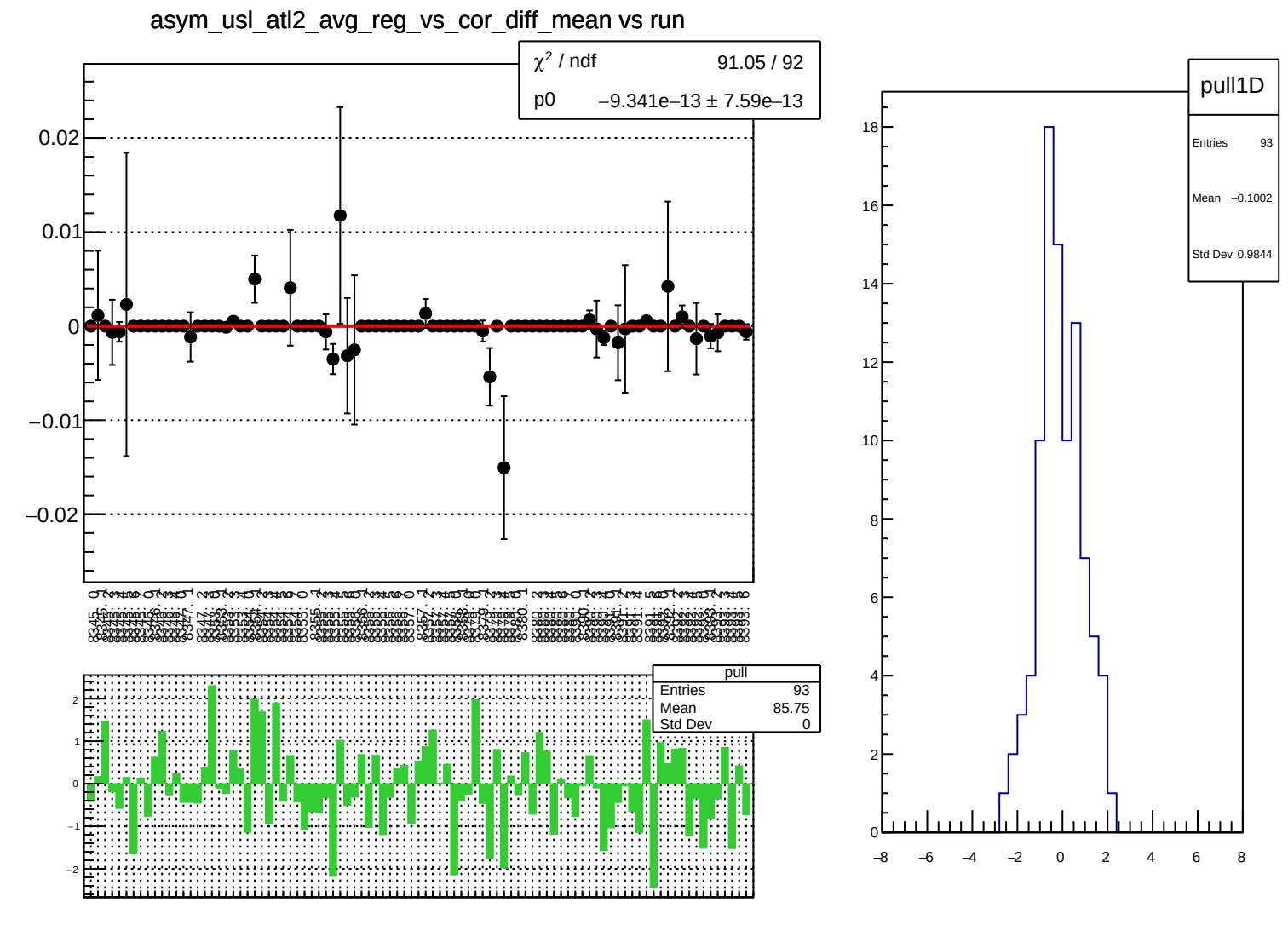

pull1D
Entries 93
Mean −0.02193
Std Dev 0.9845

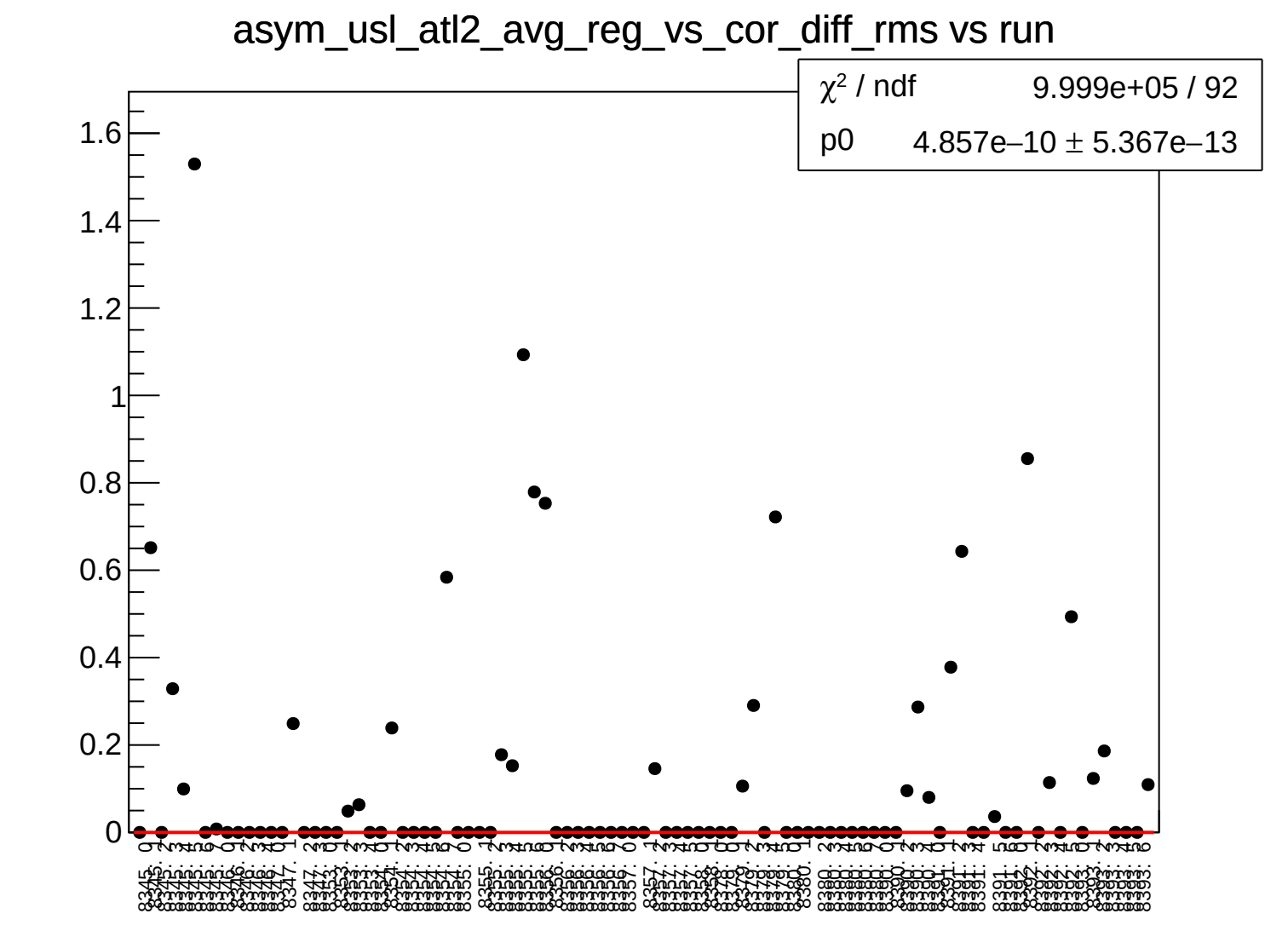

asym_usl_atl2_avg_eigen_dit_correction_rms vs run
χ² / ndf 7047 / 92
p0 4588 ± 3.408
5200
5000
4800
4600
4400
4200
4000

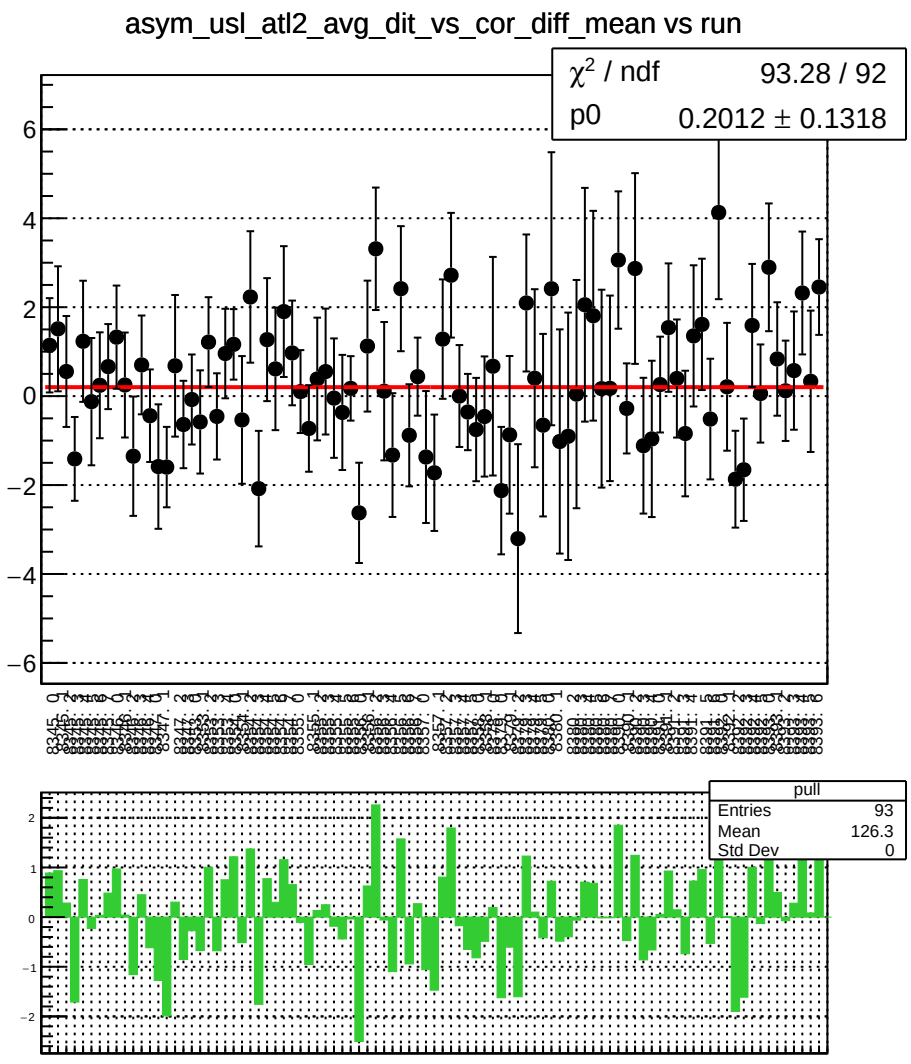

asym_usl_atl2_avg_mean vs run
×10^3
χ^2 / ndf 93.43 / 92
p0 −5308 ± 5030
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean −140.7
Std Dev 0
2
1
0
−1
−2
−3

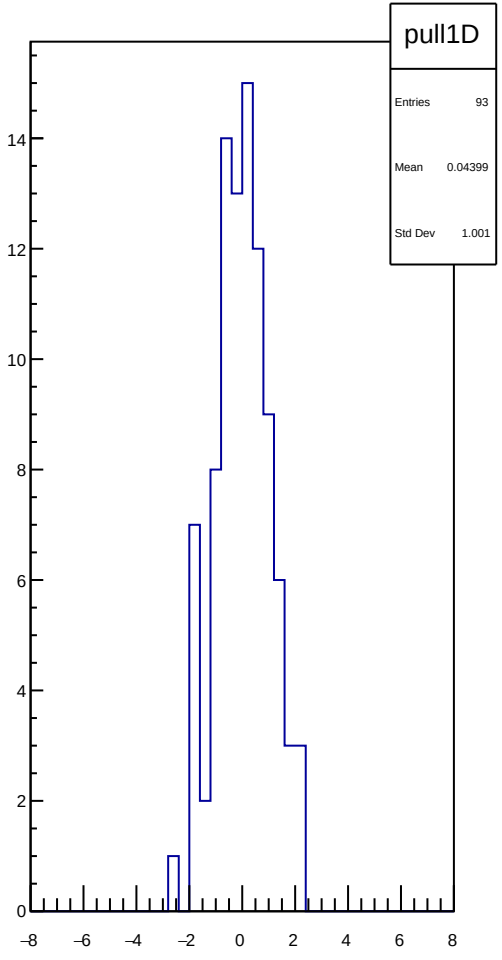

pull1D
Entries 93
Mean 0.02738
Std Dev 1.002
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

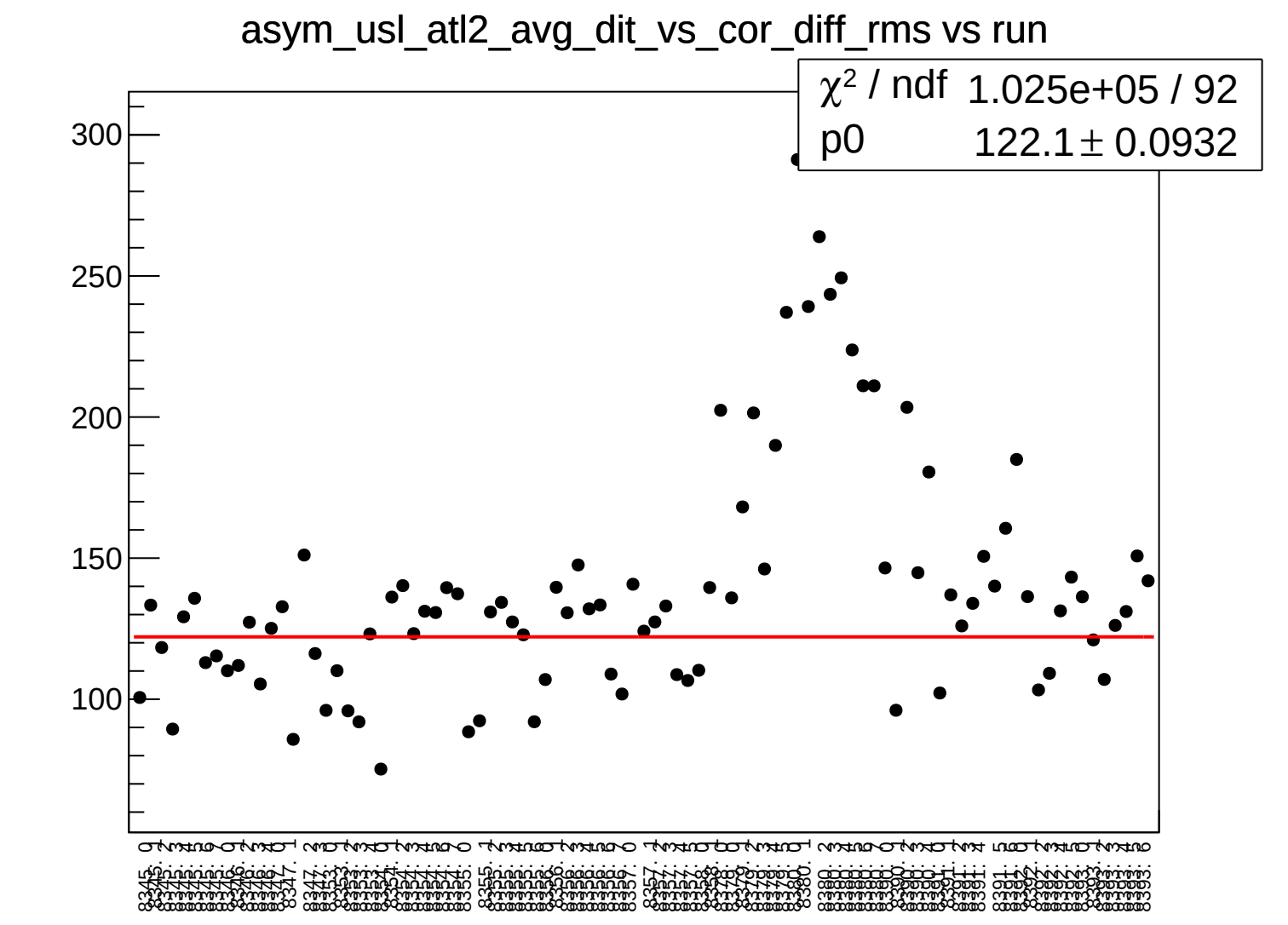

asym_usl_atl2_avg_rms vs run
χ² / ndf 8398 / 92
p0 4785 ± 3.556
5600
5400
5200
5000
4800
4600
4400
4200

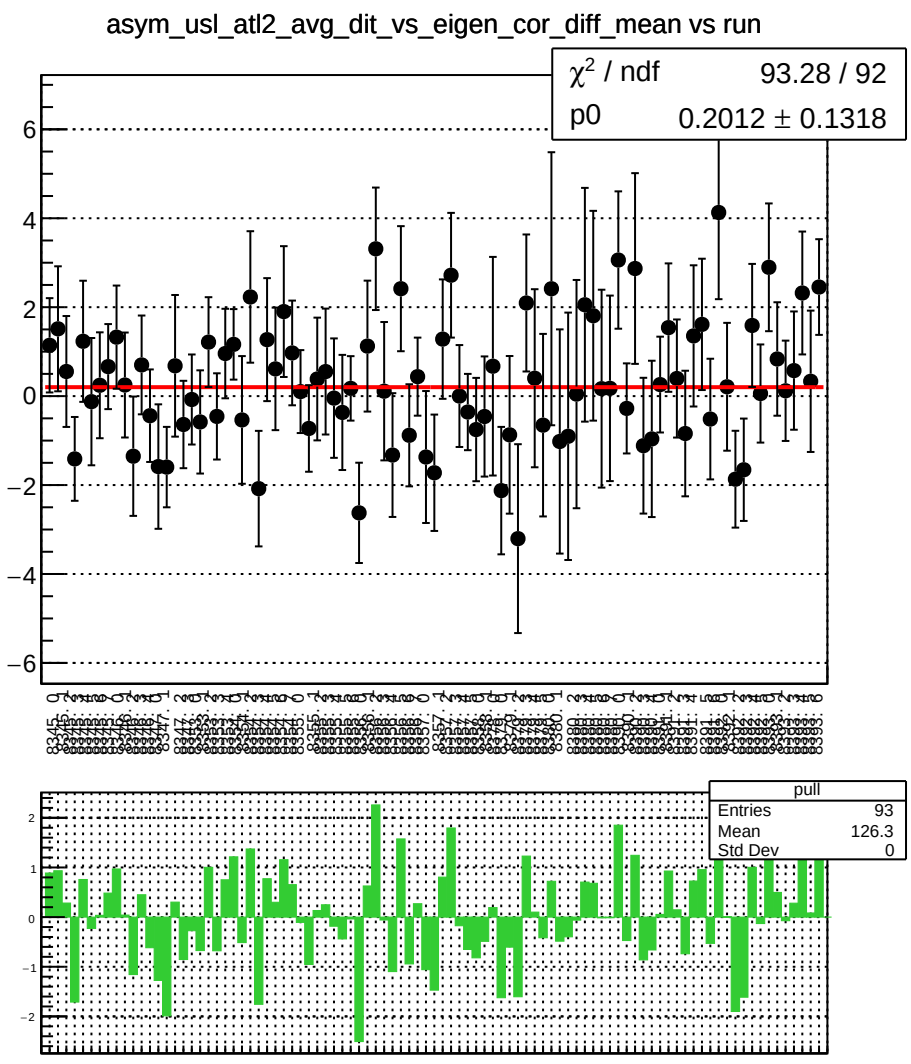

asym_usl_atl2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 91.05 / 92
p0 −9.341e−13 ± 7.59e−13
0.02
0.01
0
−0.01
−0.02
pull
Entries 93
Mean 85.75
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.1002
Std Dev 0.9844
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

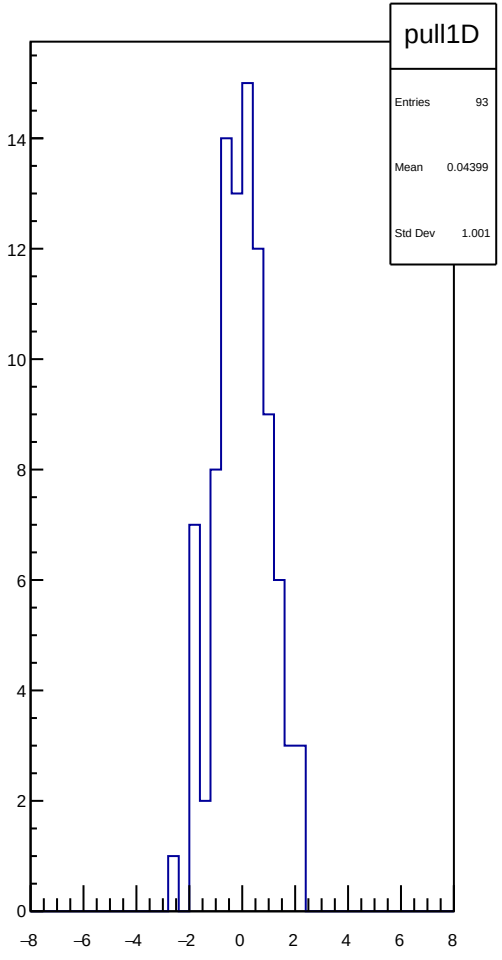

asym_usl_atl2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.999e+05 / 92
p0 4.857e−10 ± 5.367e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

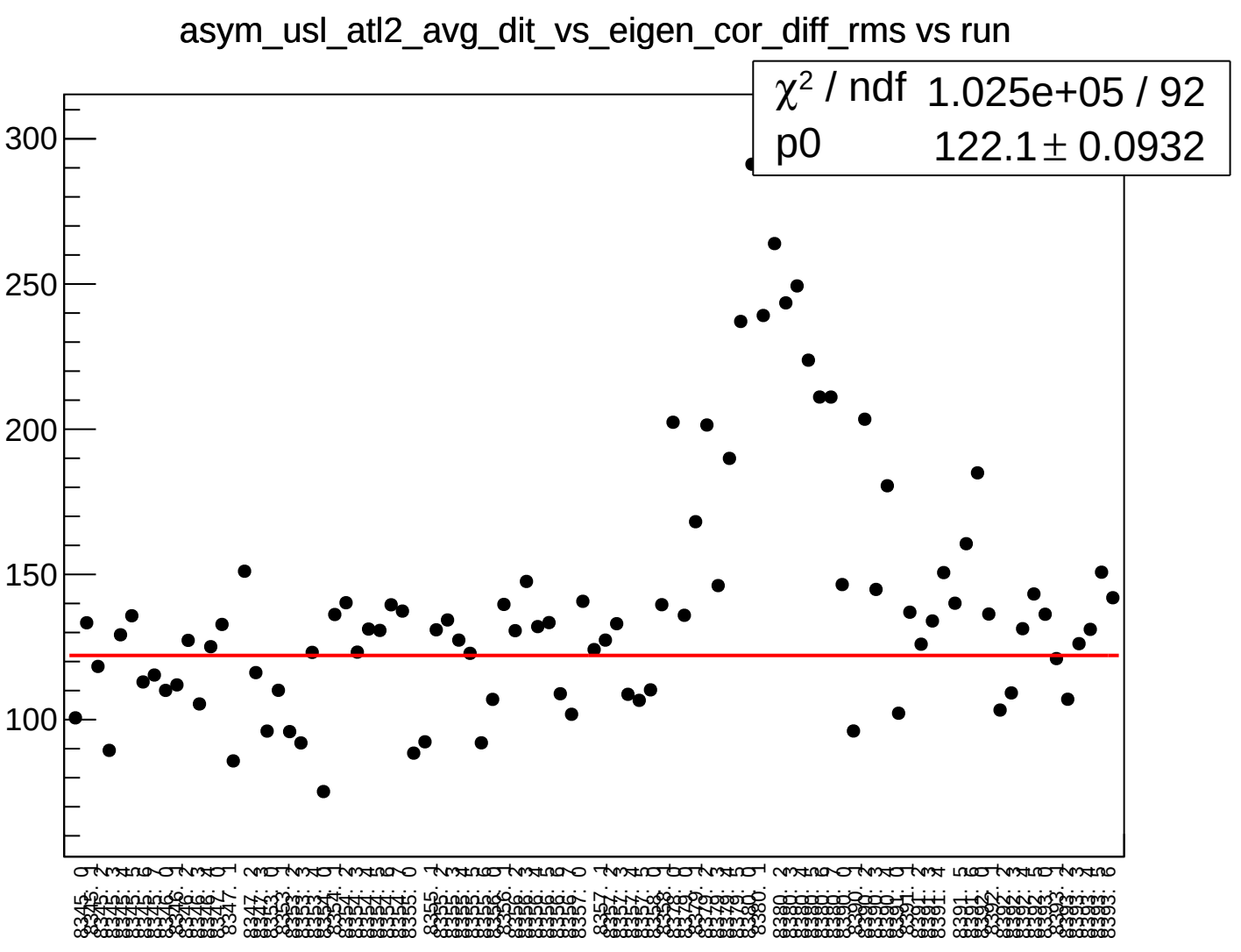

asym_usl_atl2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 93.28 / 92
p0 0.2012 ± 0.1318
pull
Entries 93
Mean 126.3
Std Dev 0

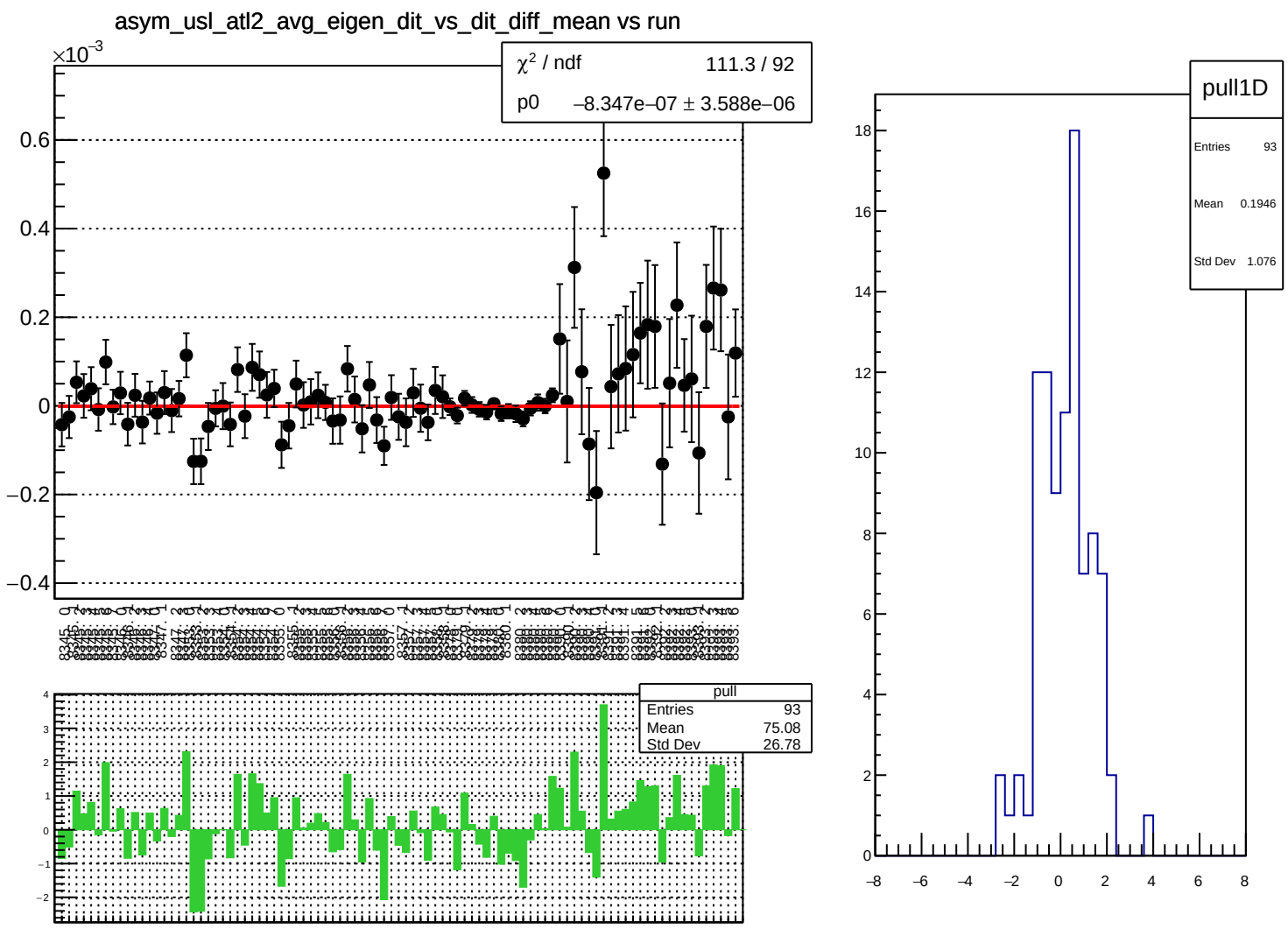

pull1D
Entries 93
Mean 0.04399
Std Dev 1.001

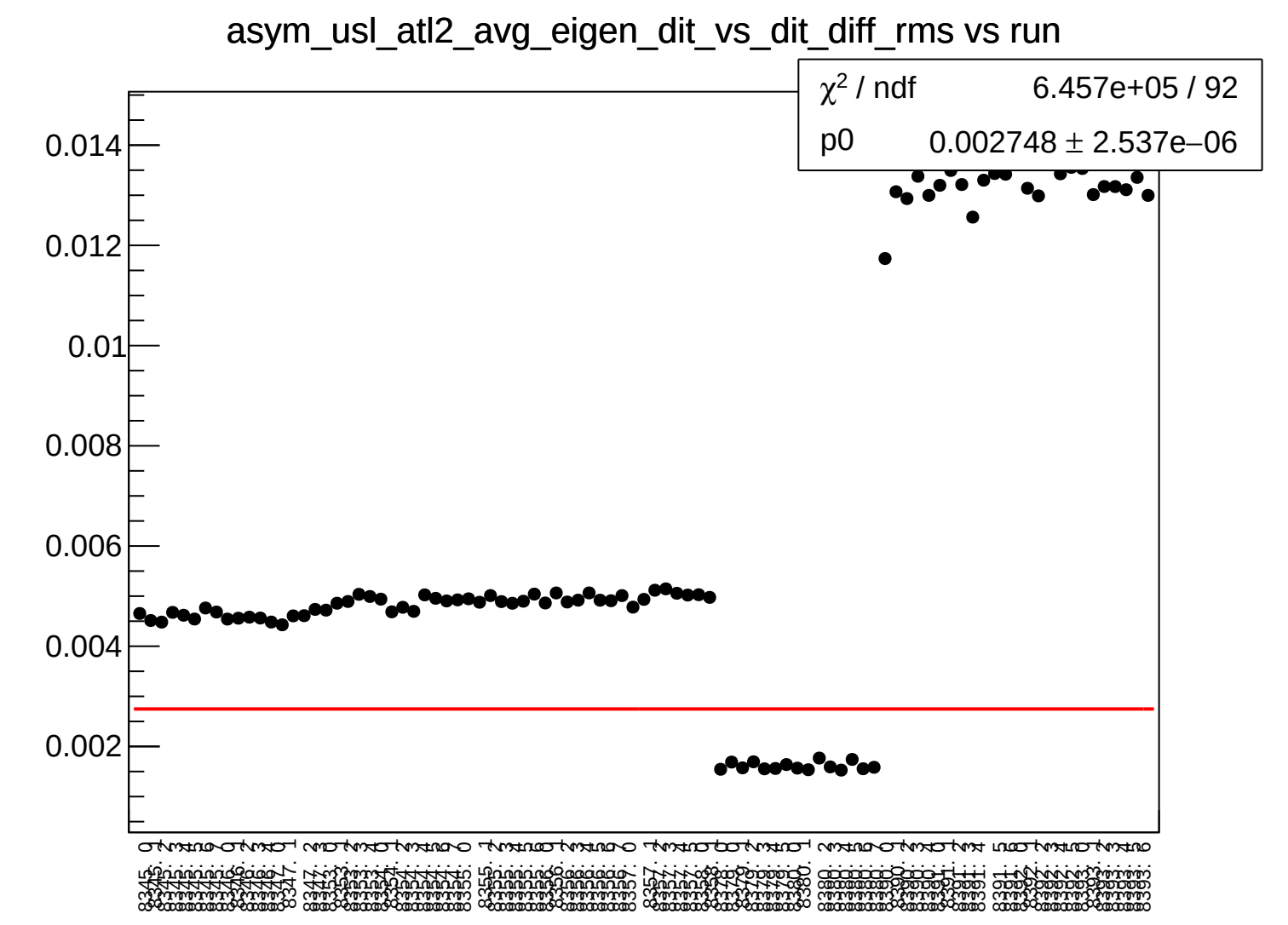

asym_usl_atl2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.025e+05 / 92
p0 122.1 ± 0.0932
300
250
200
150
100

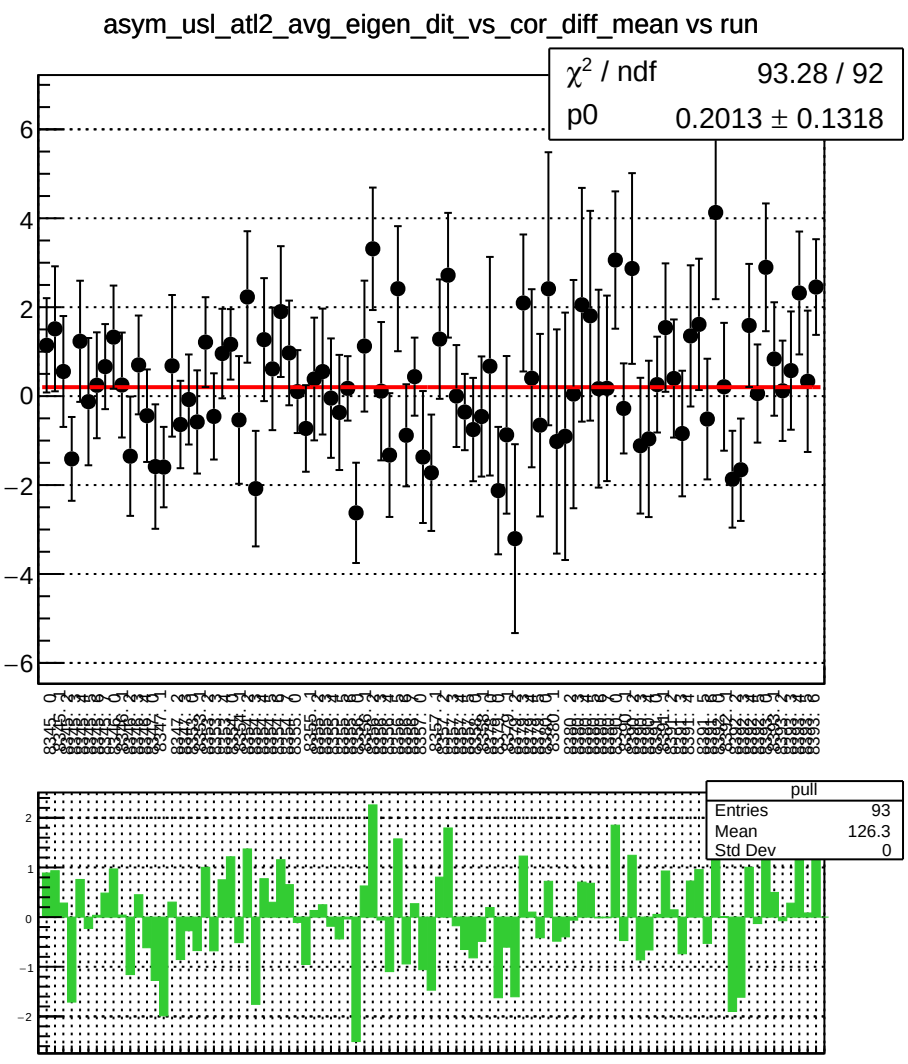

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.28 / 92
p0 0.2012 ± 0.1318
pull
Entries 93
Mean 126.3
Std Dev 0

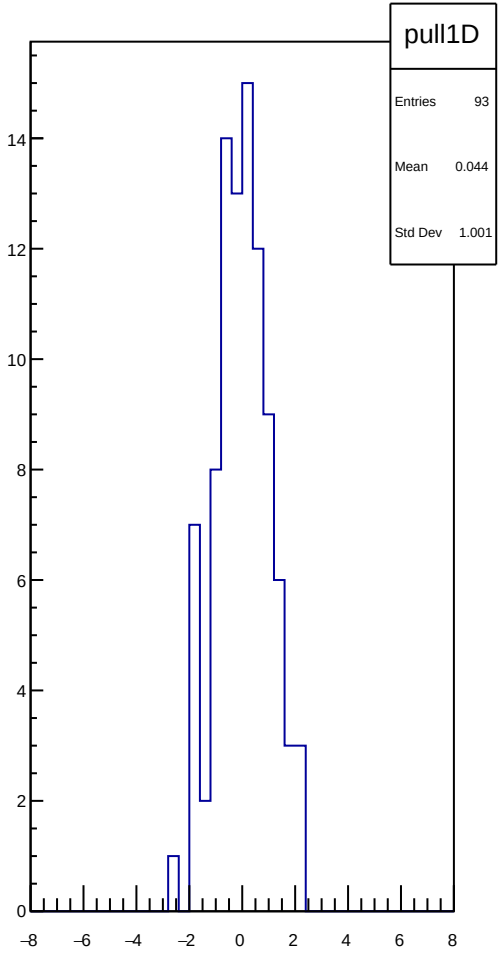

pull1D
Entries 93
Mean 0.04399
Std Dev 1.001

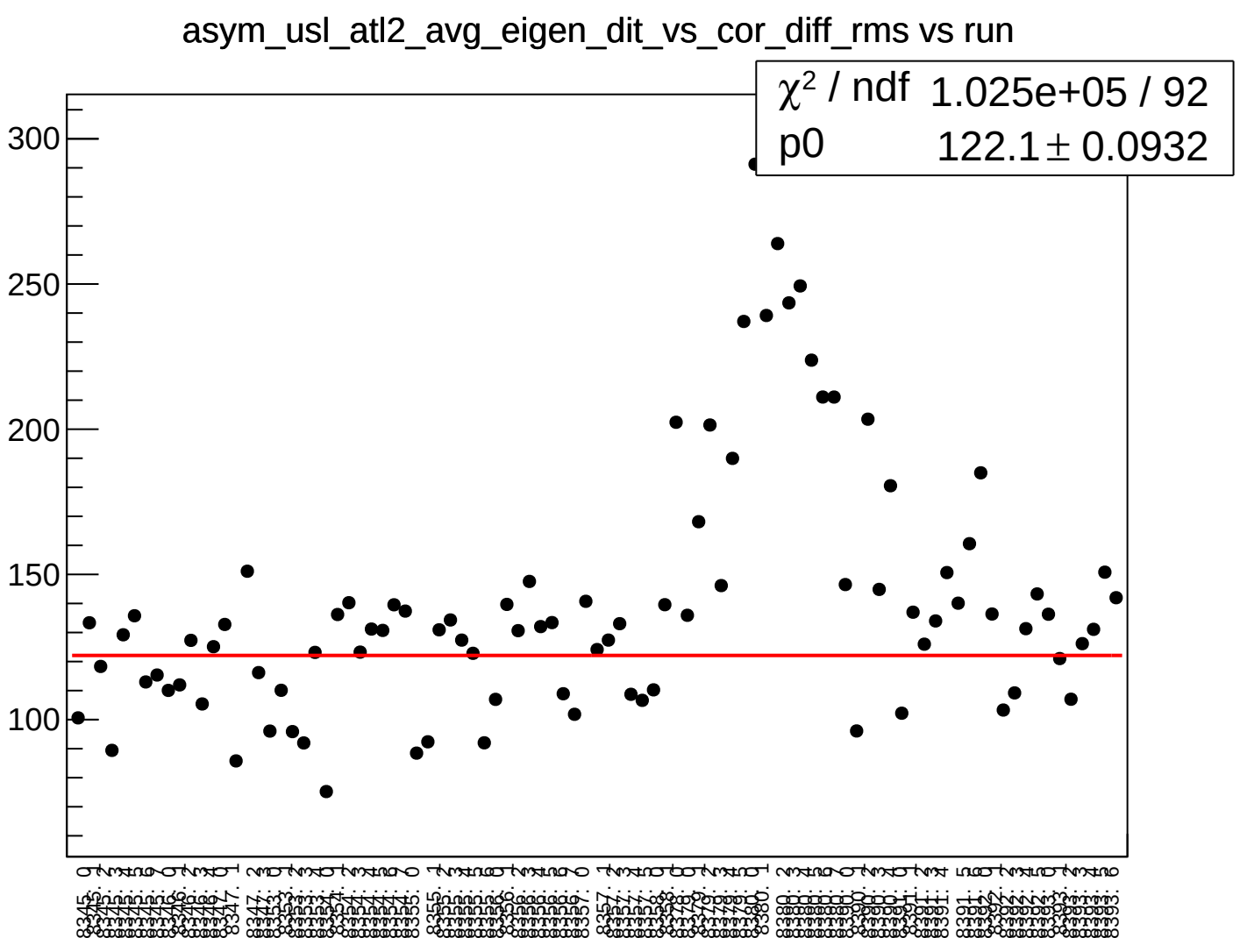

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.025e+05 / 92
p0 122.1 ± 0.0932
300
250
200
150
100

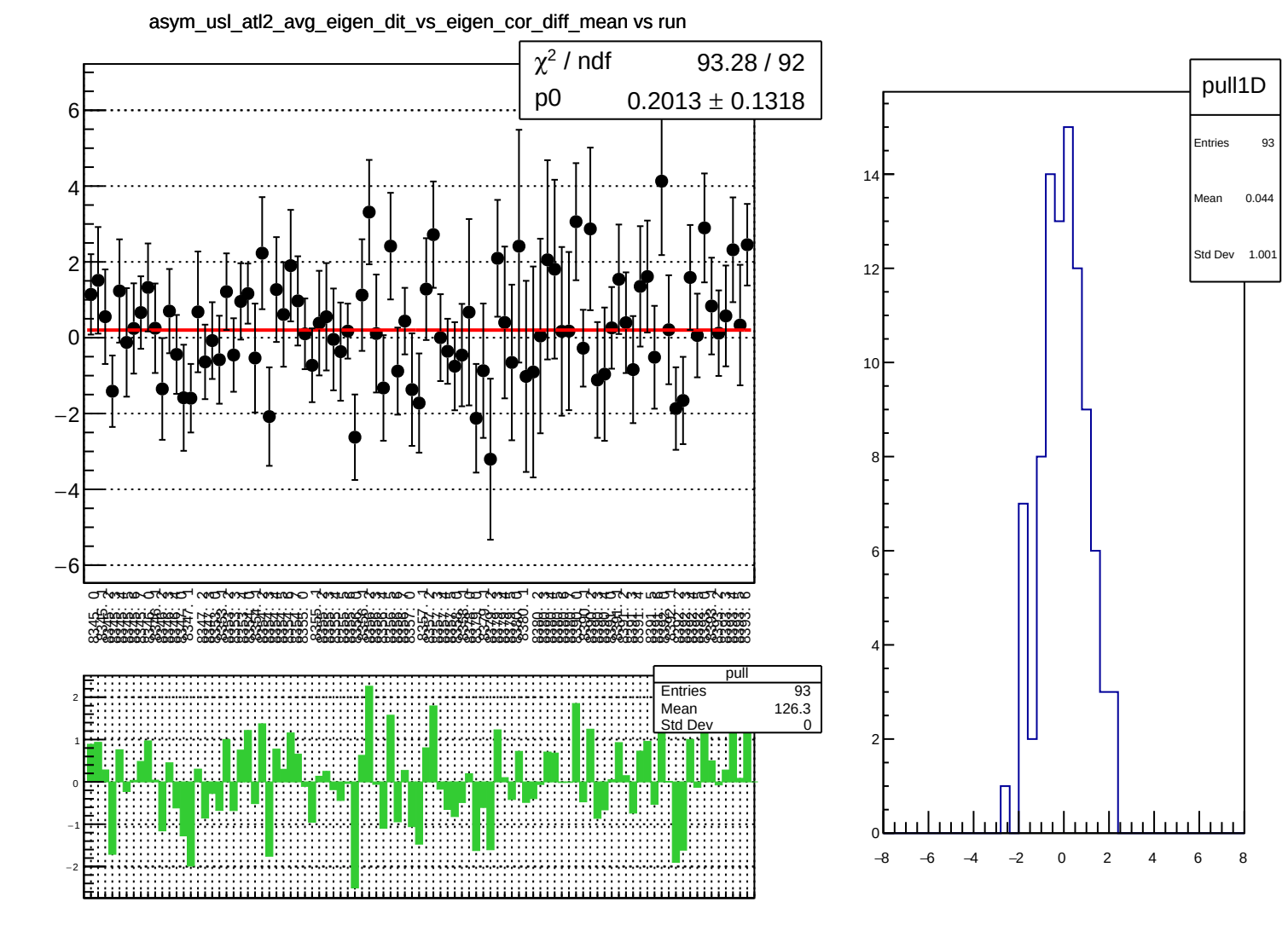

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_mean vs run
×10^-3
χ² / ndf 111.3 / 92
p0 −8.347e−07 ± 3.588e−06
0.6
0.4
0.2
0
−0.2
−0.4
pull
Entries 93
Mean 75.08
Std Dev 26.78
4
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.1946
Std Dev 1.076
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

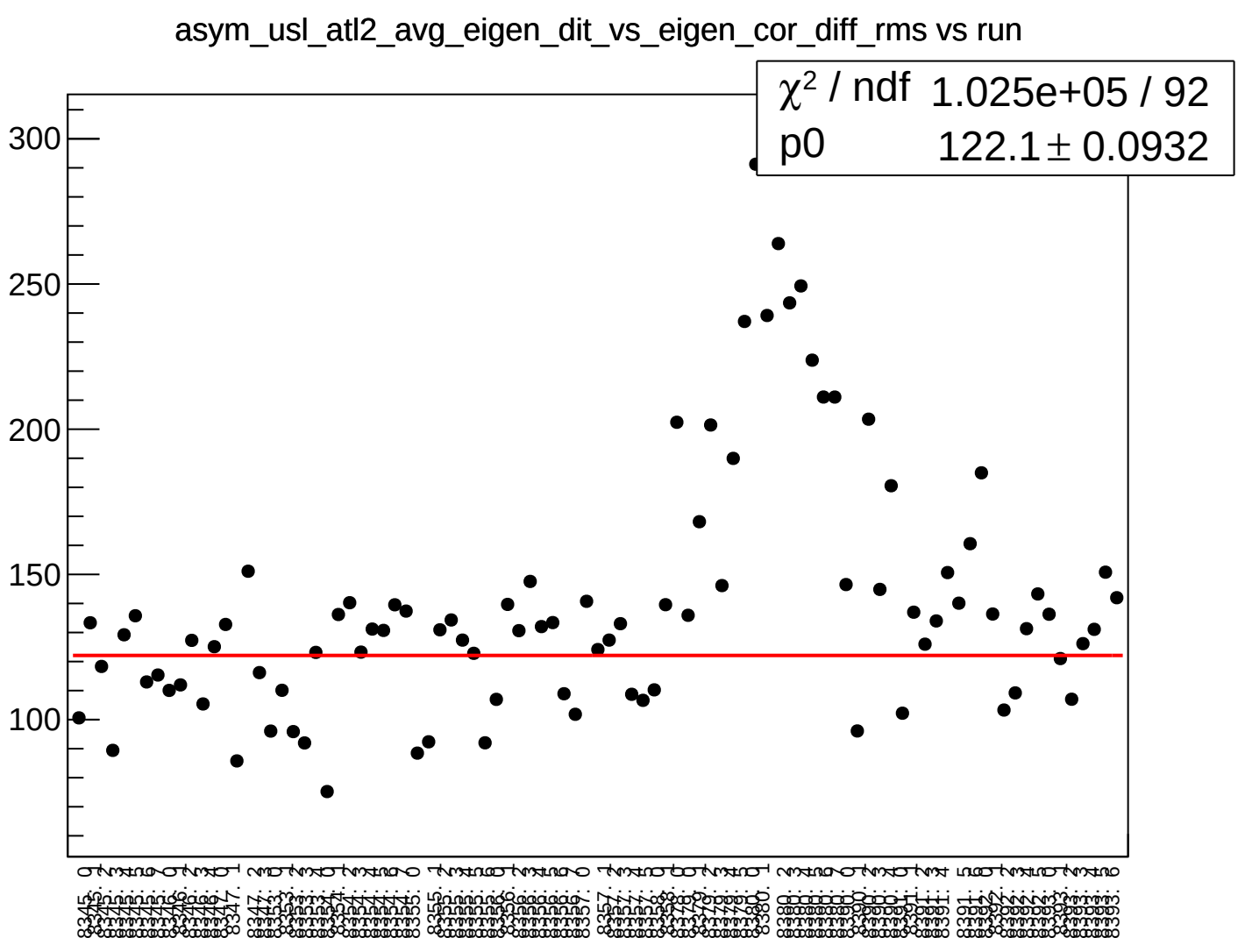

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.457e+05 / 92
p0 0.002748 ± 2.537e−06
0.014
0.012
0.01
0.008
0.006
0.004
0.002

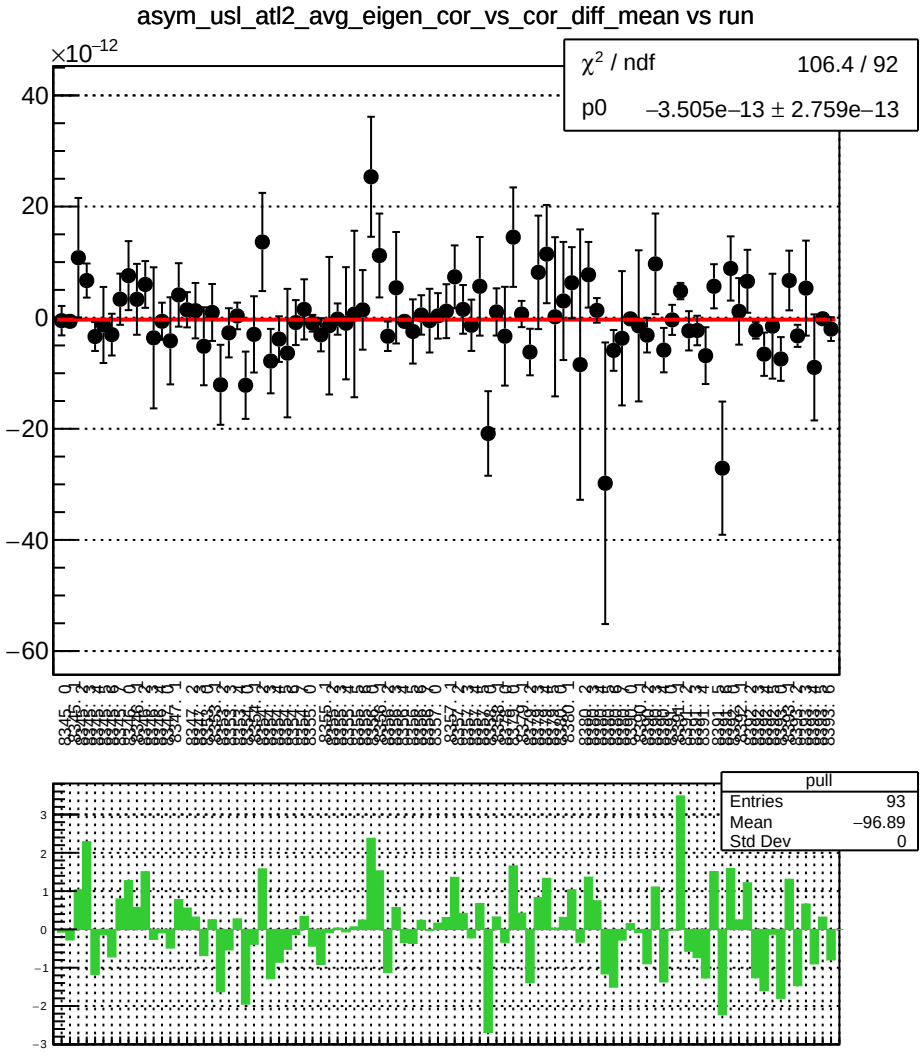

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.28 / 92
p0 0.2013 ± 0.1318
pull
Entries 93
Mean 126.3
Std Dev 0

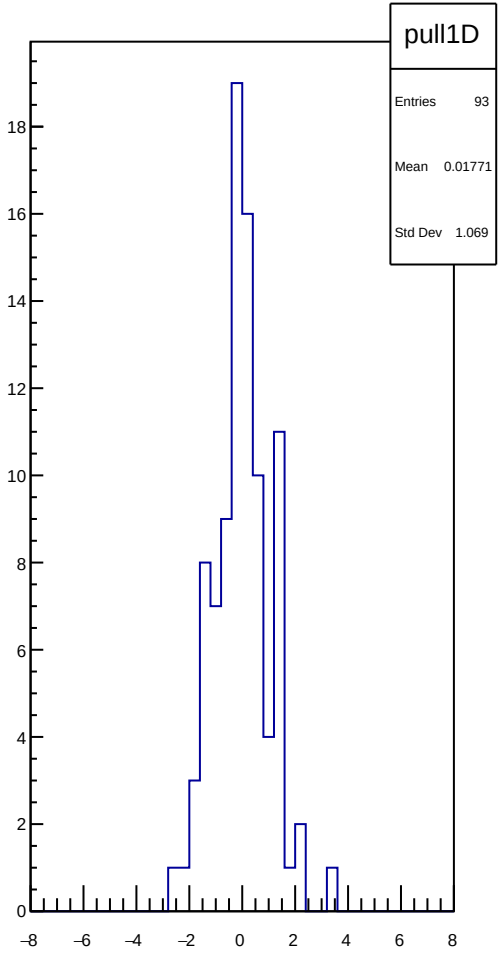

pull1D
Entries 93
Mean 0.044
Std Dev 1.001

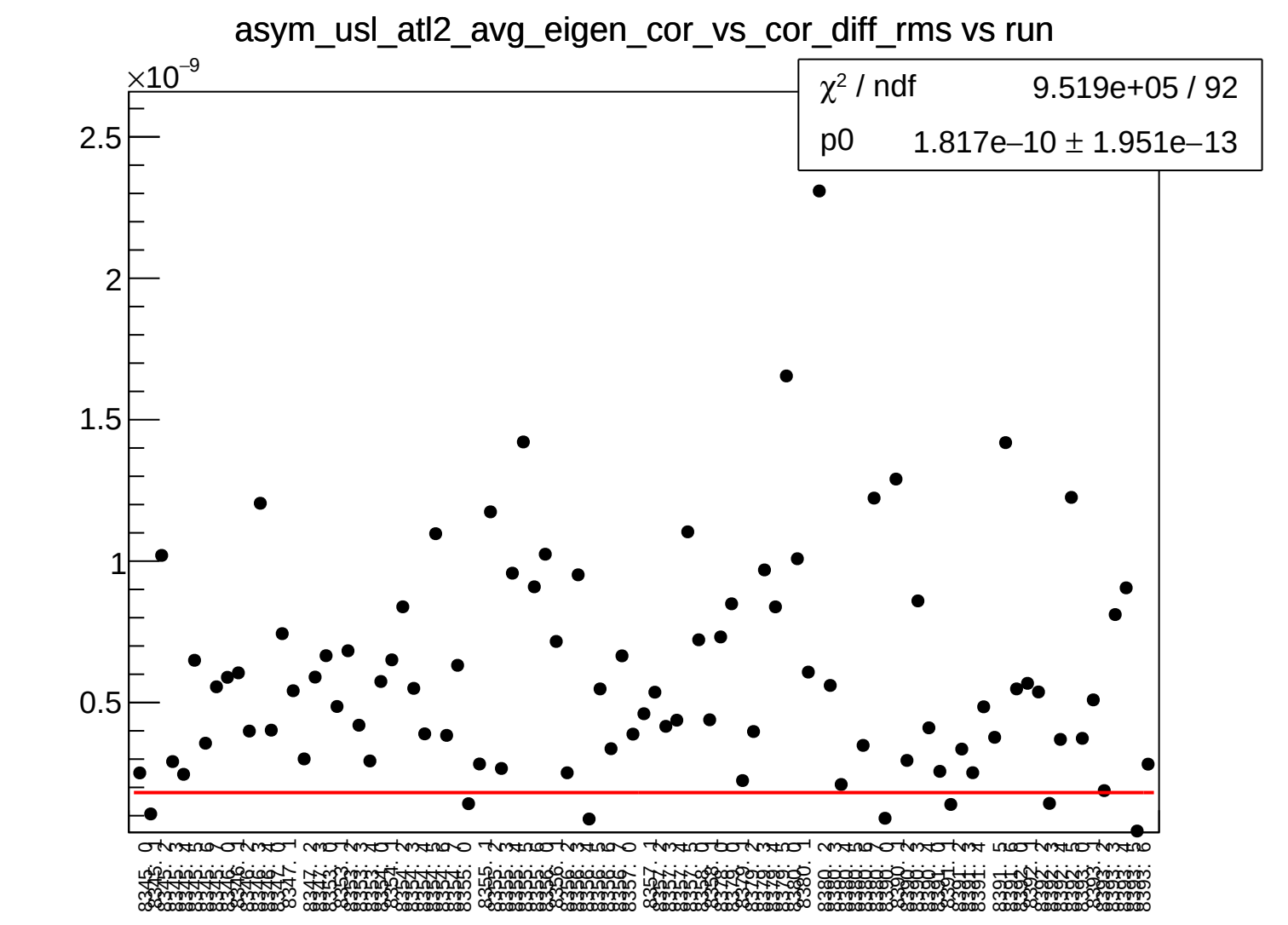

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.025e+05 / 92
p0 122.1 ± 0.0932
300
250
200
150
100

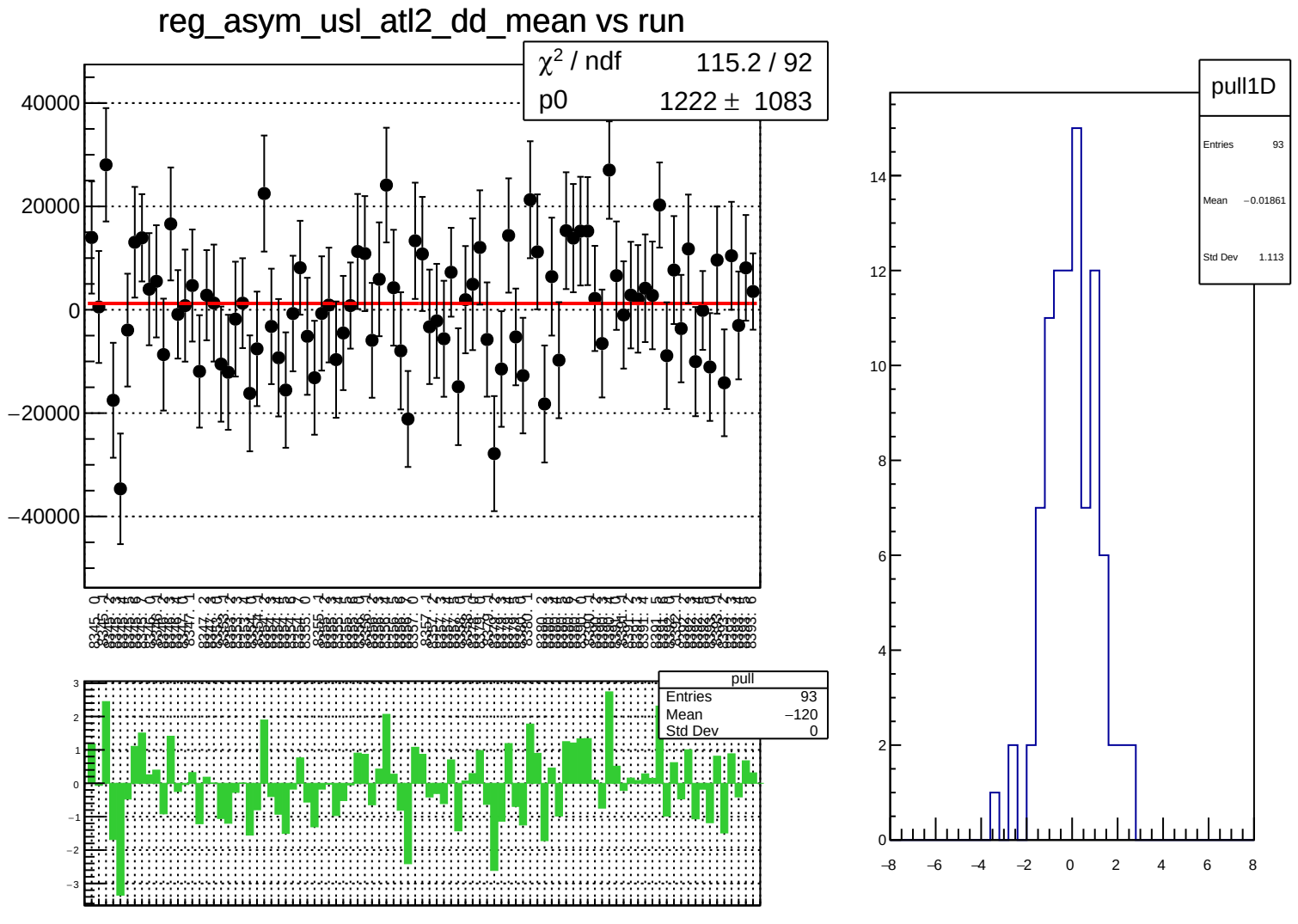

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.28 / 92
p0 0.2013 ± 0.1318
pull
Entries 93
Mean 126.3
Std Dev 0
pull1D
Entries 93
Mean 0.044
Std Dev 1.001

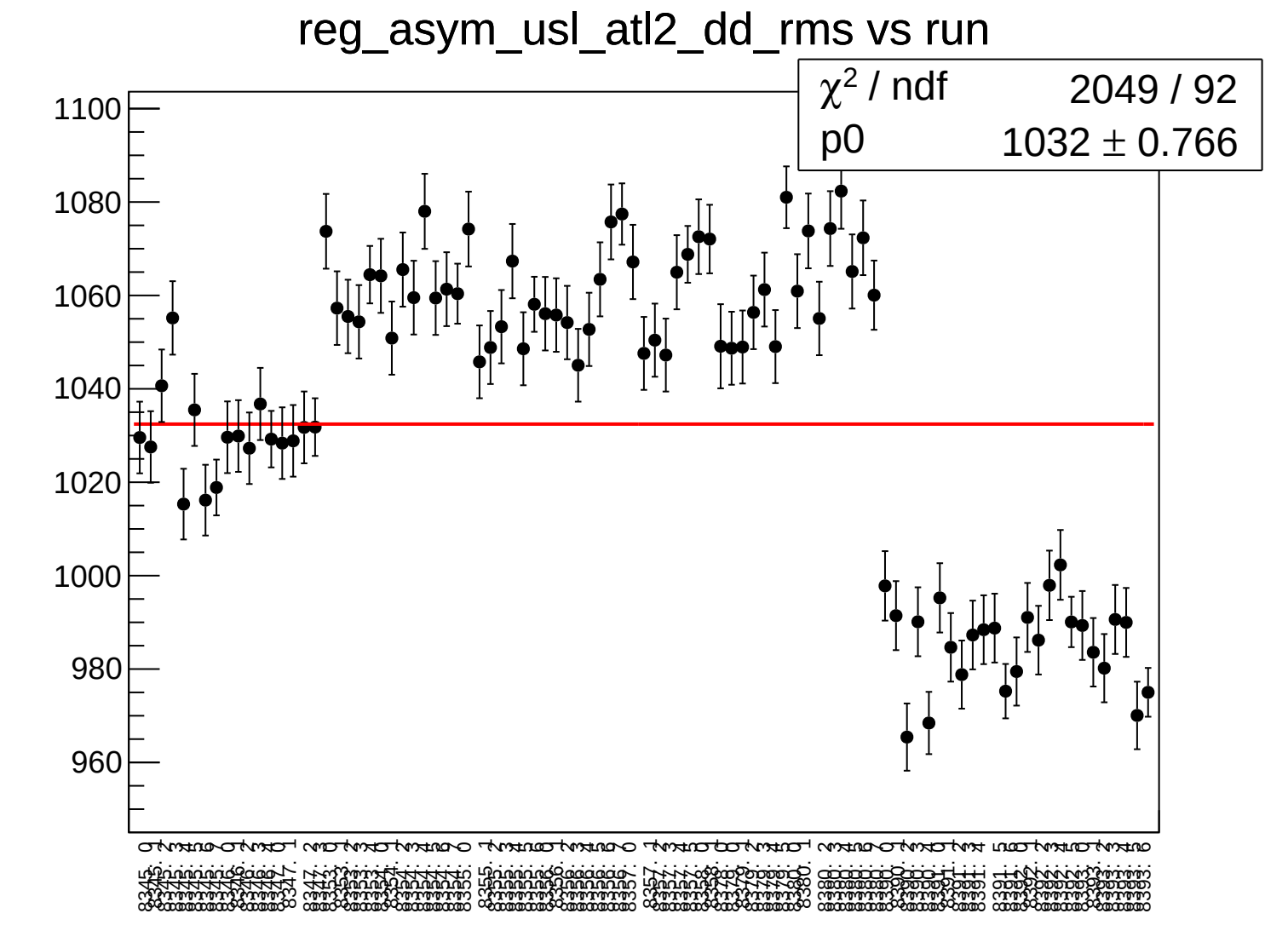

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.025e+05 / 92
p0 122.1 ± 0.0932
300
250
200
150
100

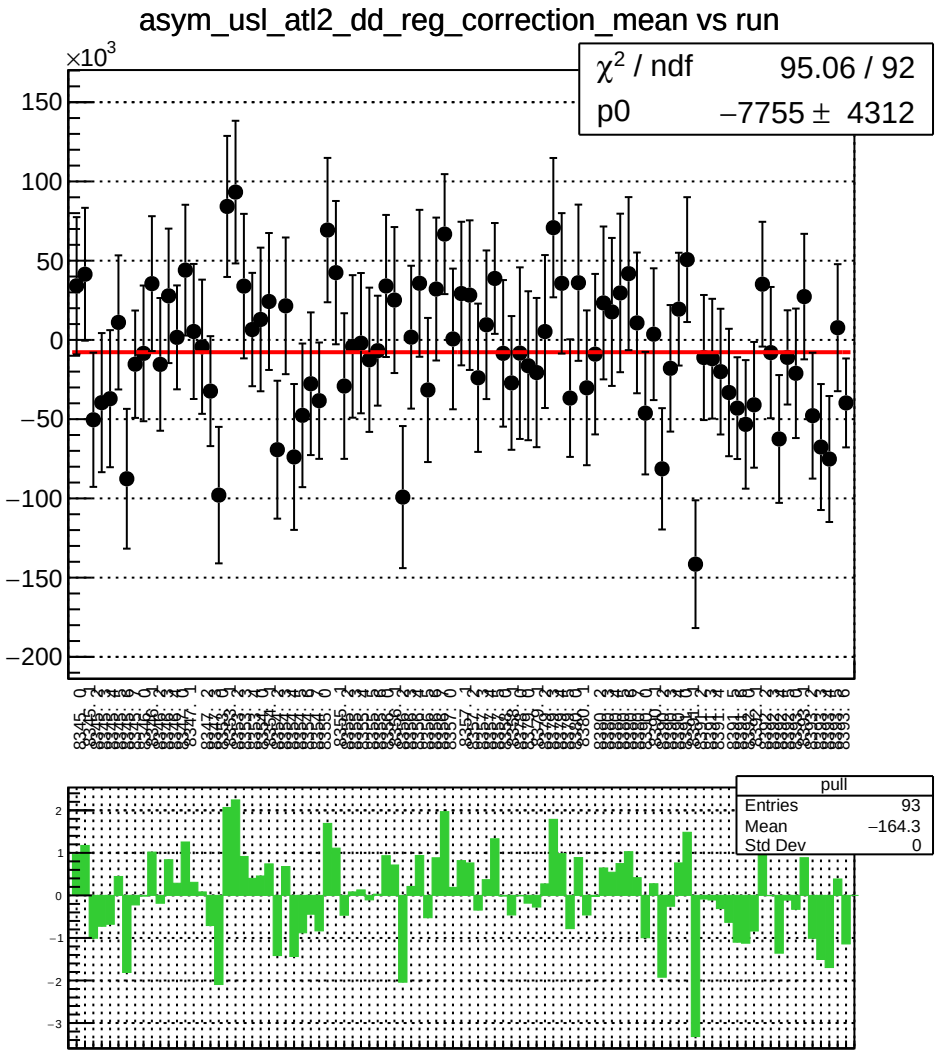

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 106.4 / 92
p0 −3.505e−13 ± 2.759e−13
pull
Entries 93
Mean −96.89
Std Dev 0

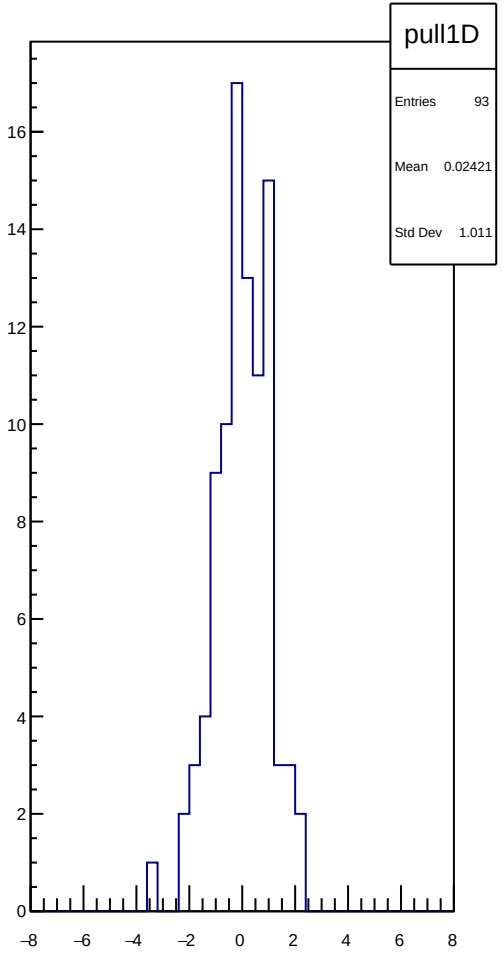

pull1D
Entries 93
Mean 0.01771
Std Dev 1.069

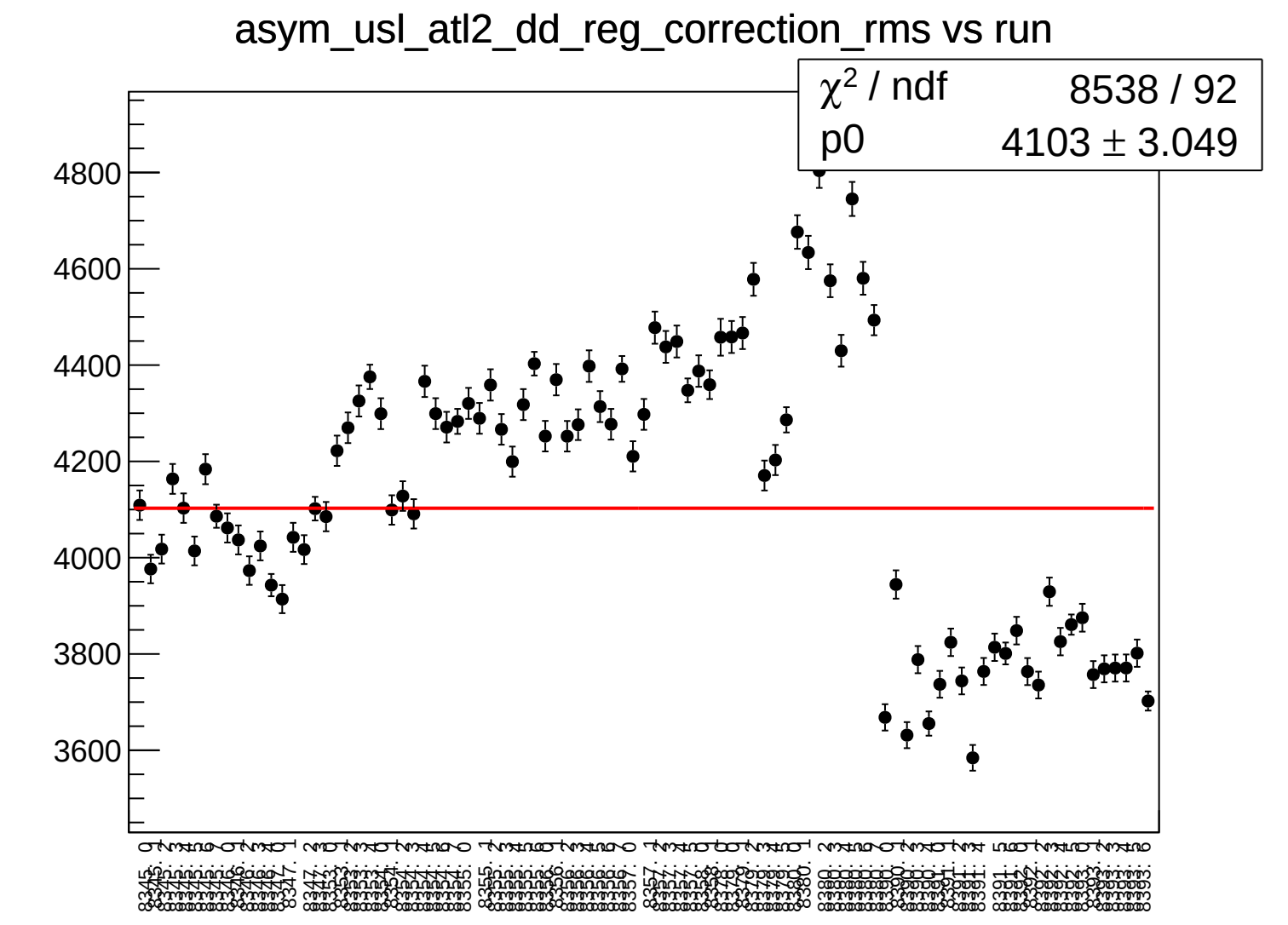

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.519e+05 / 92
p0 1.817e−10 ± 1.951e−13
2.5
2
1.5
1
0.5

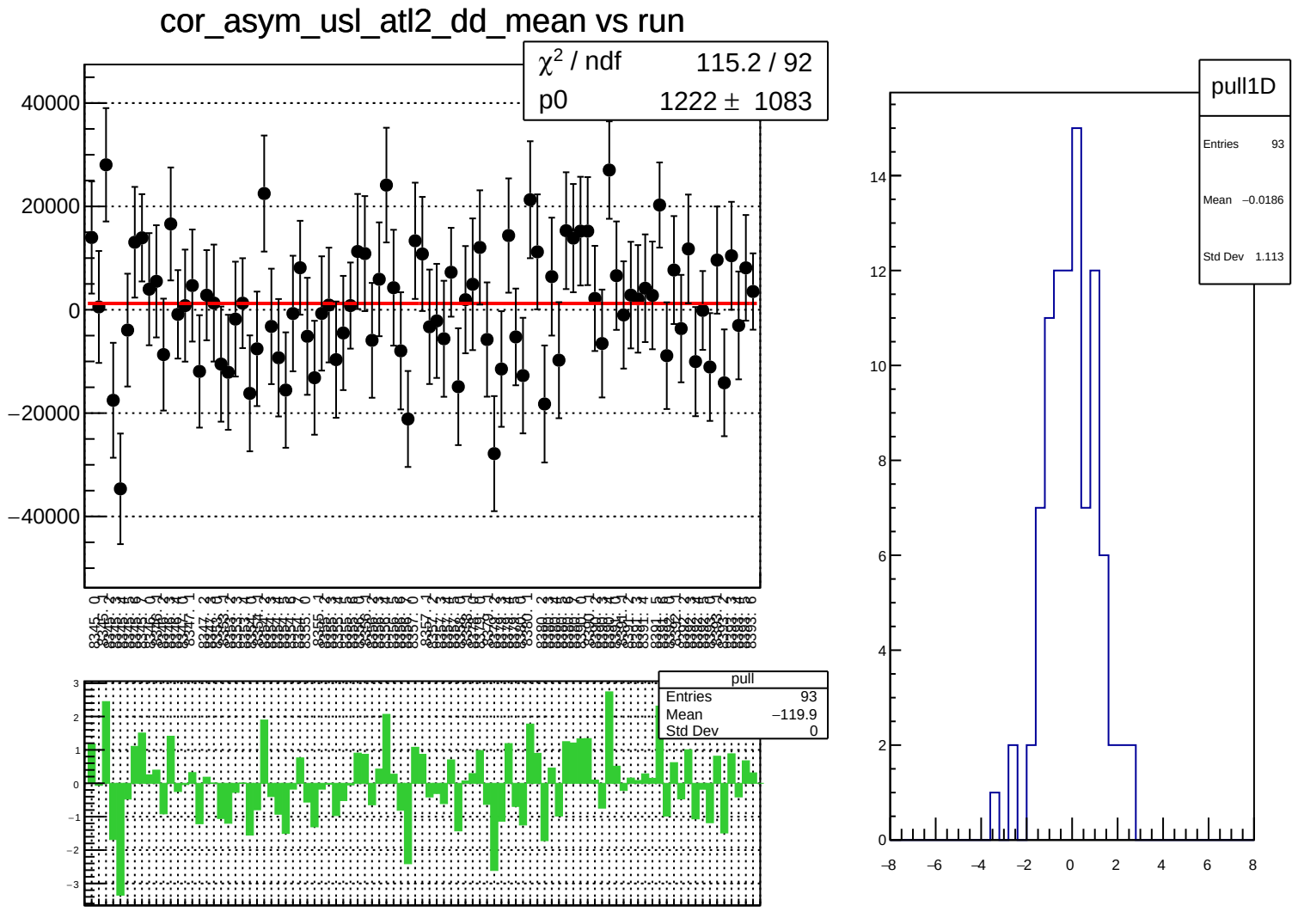

reg_asym_usl_atl2_dd_mean vs run
χ² / ndf 115.2 / 92
p0 1222 ± 1083
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −120
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.01861
Std Dev 1.113
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

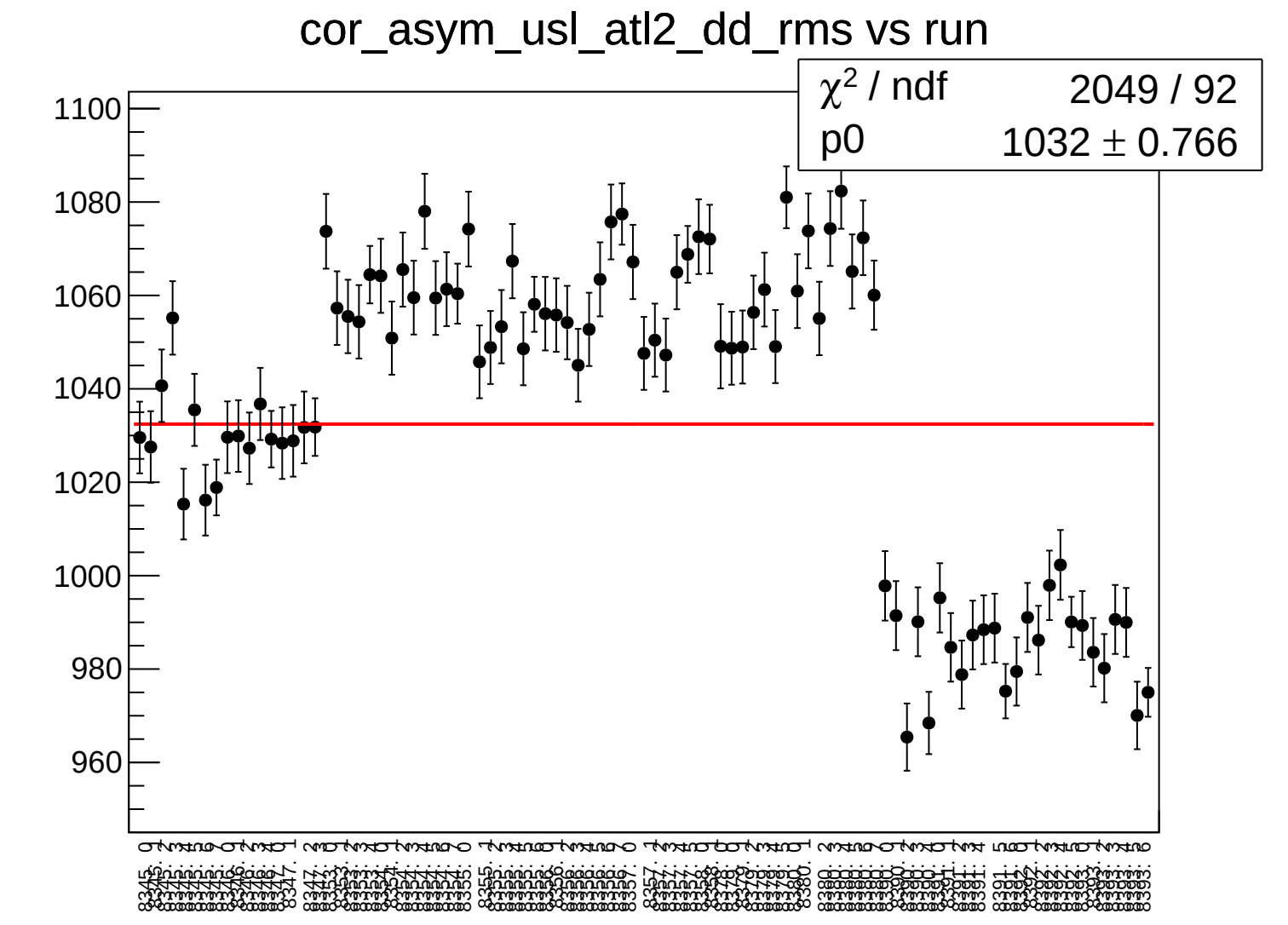

reg_asym_usl_atl2_dd_rms vs run
χ² / ndf 2049 / 92
p0 1032 ± 0.766
1100
1080
1060
1040
1020
1000
980
960

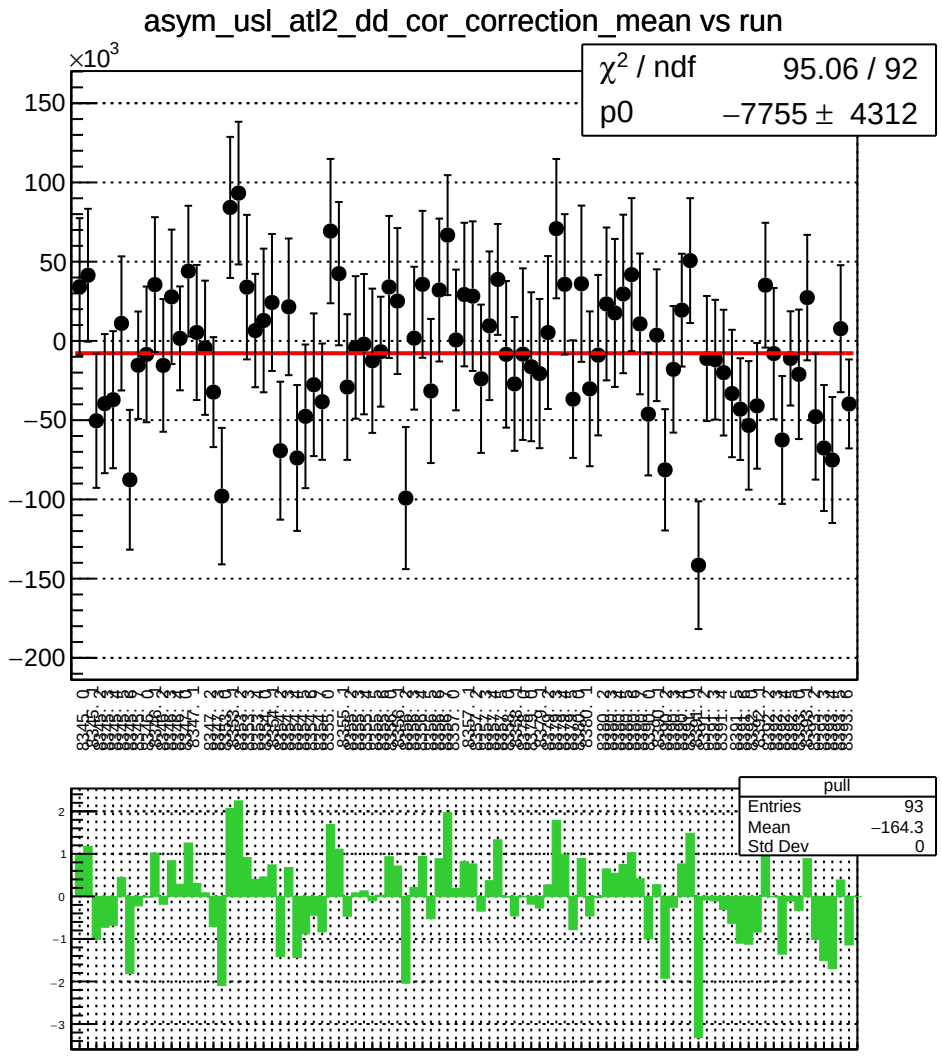

asym_usl_atl2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 95.06 / 92
p0 −7755 ± 4312
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean −164.3
Std Dev 0
2
1
0
−1
−2
−3

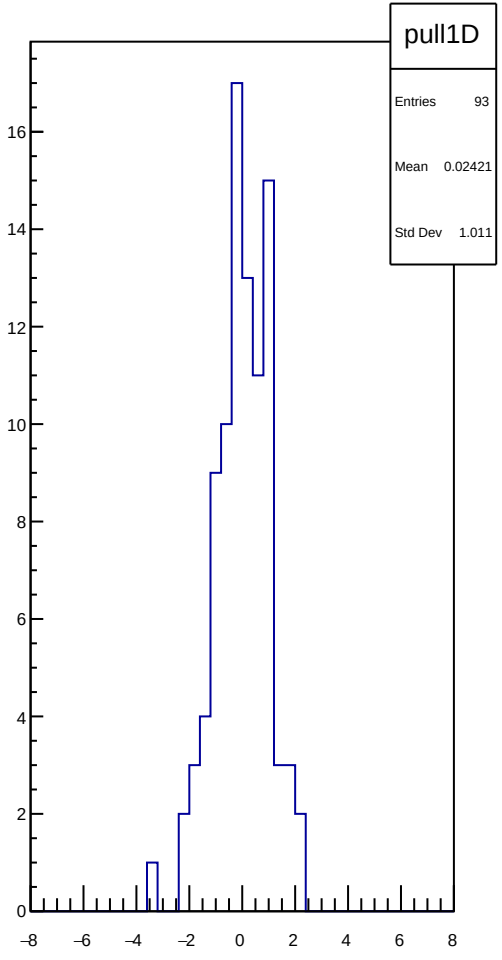

pull1D
Entries 93
Mean 0.02421
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

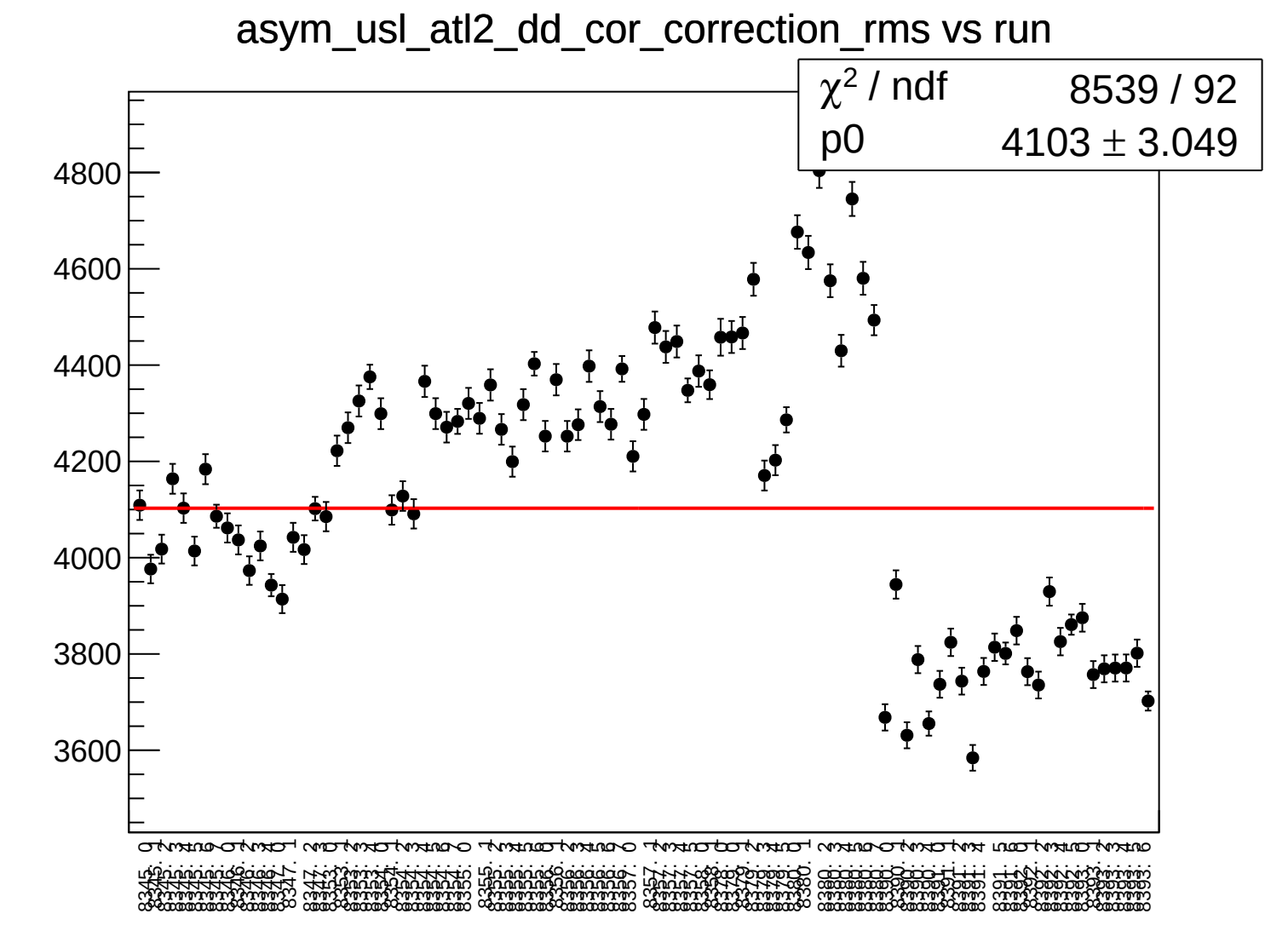

asym_usl_atl2_dd_reg_correction_rms vs run
χ² / ndf 8538 / 92
p0 4103 ± 3.049
4800
4600
4400
4200
4000
3800
3600

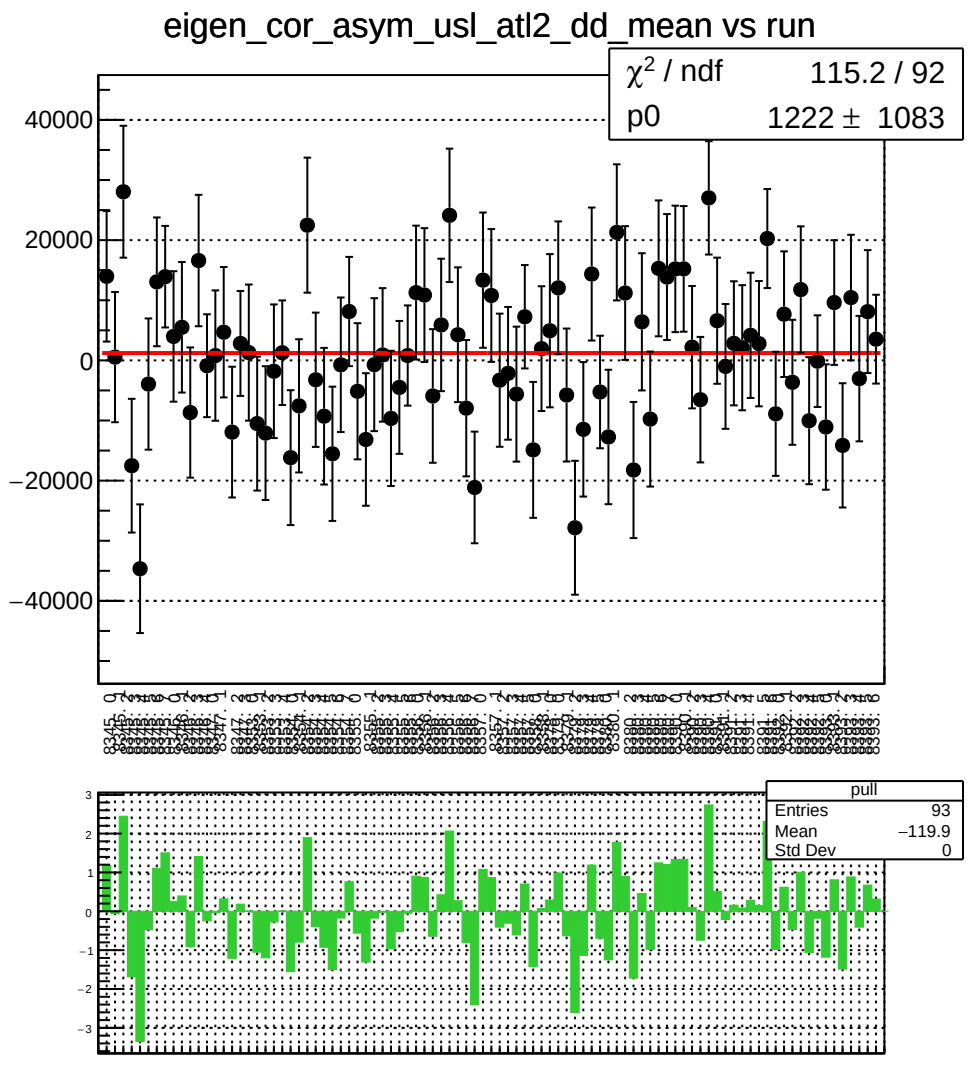

cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 115.2 / 92
p0 1222 ± 1083
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −119.9
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.0186
Std Dev 1.113
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

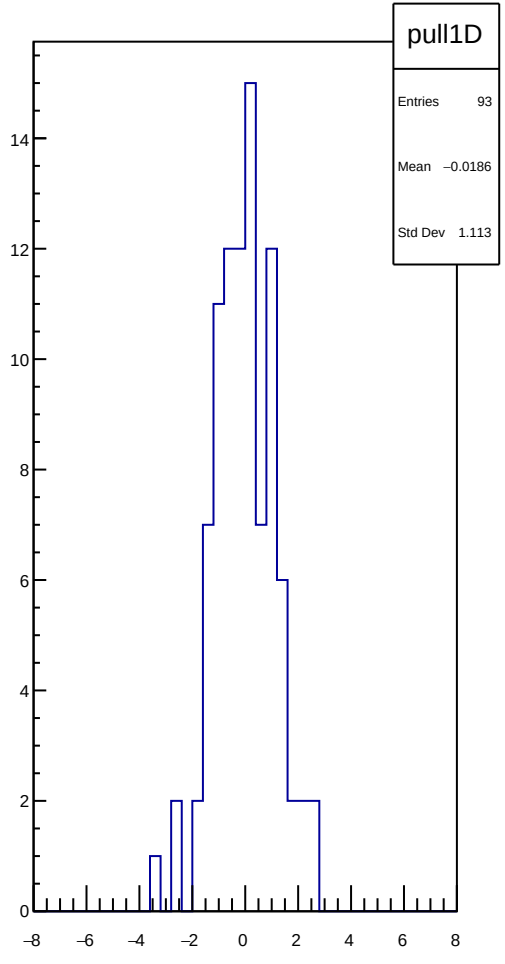

cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 2049 / 92
p0 1032 ± 0.766
1100
1080
1060
1040
1020
1000
980
960

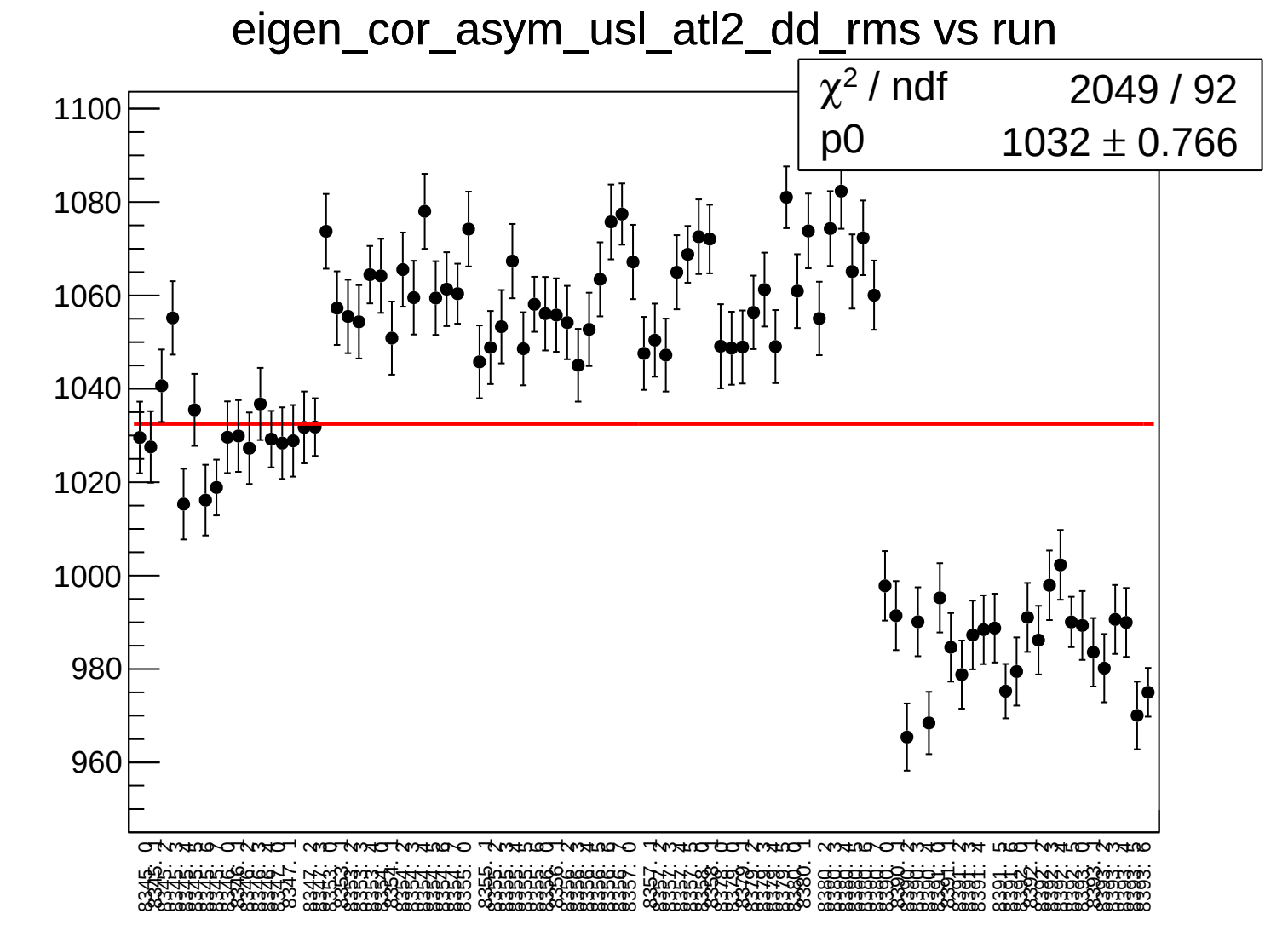

asym_usl_atl2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 95.06 / 92
p0 −7755 ± 4312
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean −164.3
Std Dev 0
2
1
0
−1
−2
−3

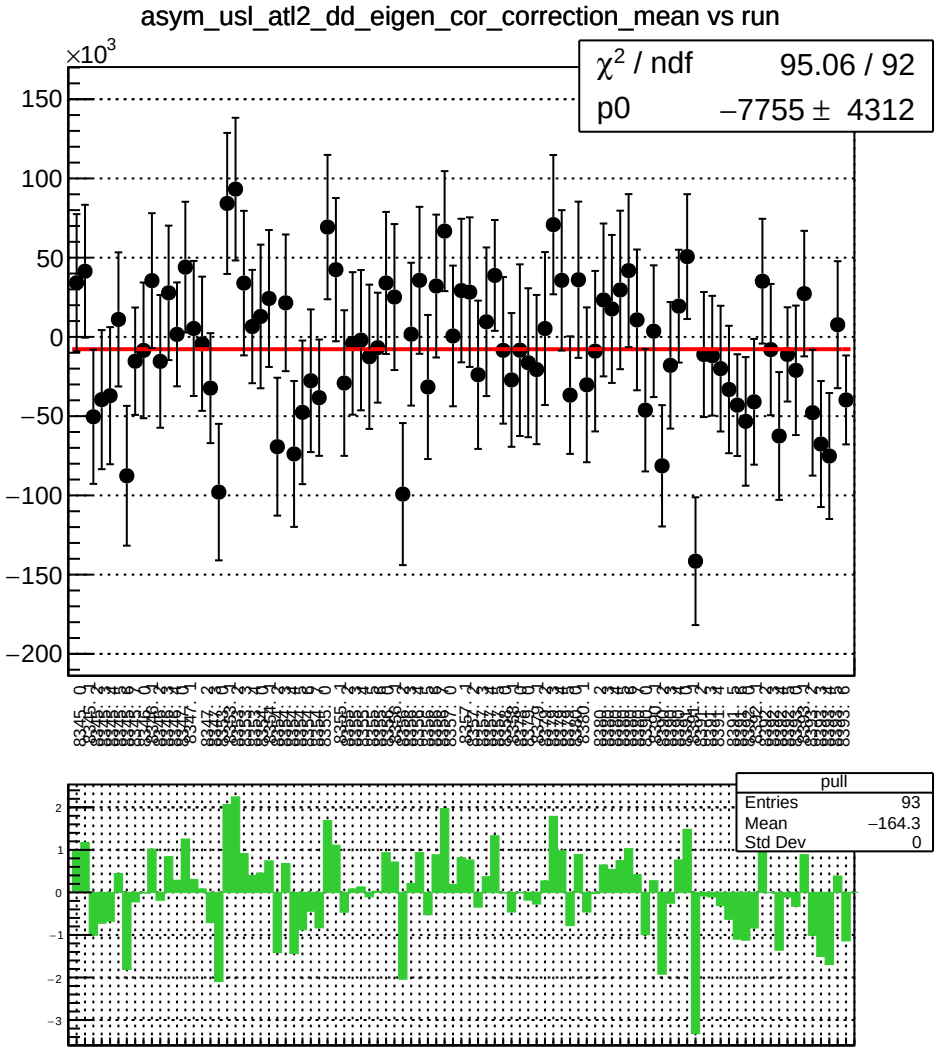

pull1D
Entries 93
Mean 0.02421
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

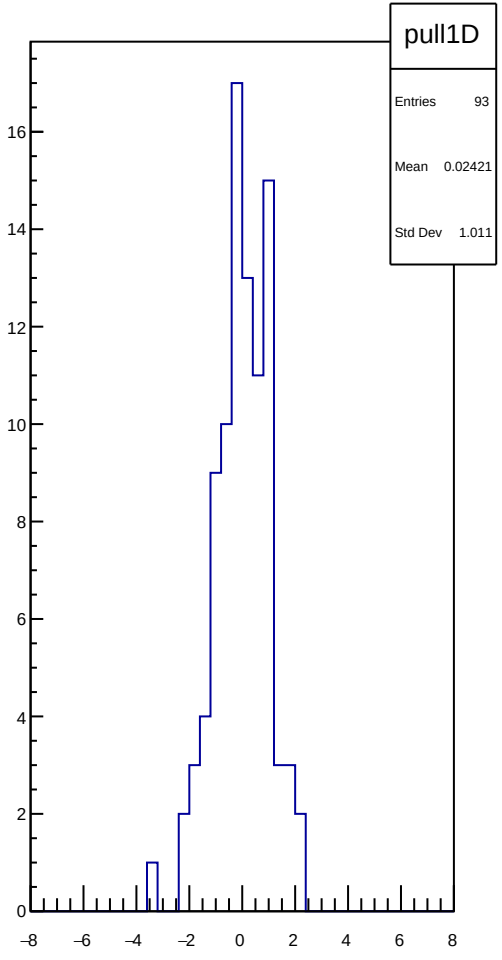

asym_usl_atl2_dd_cor_correction_rms vs run
χ² / ndf 8539 / 92
p0 4103 ± 3.049
4800
4600
4400
4200
4000
3800
3600

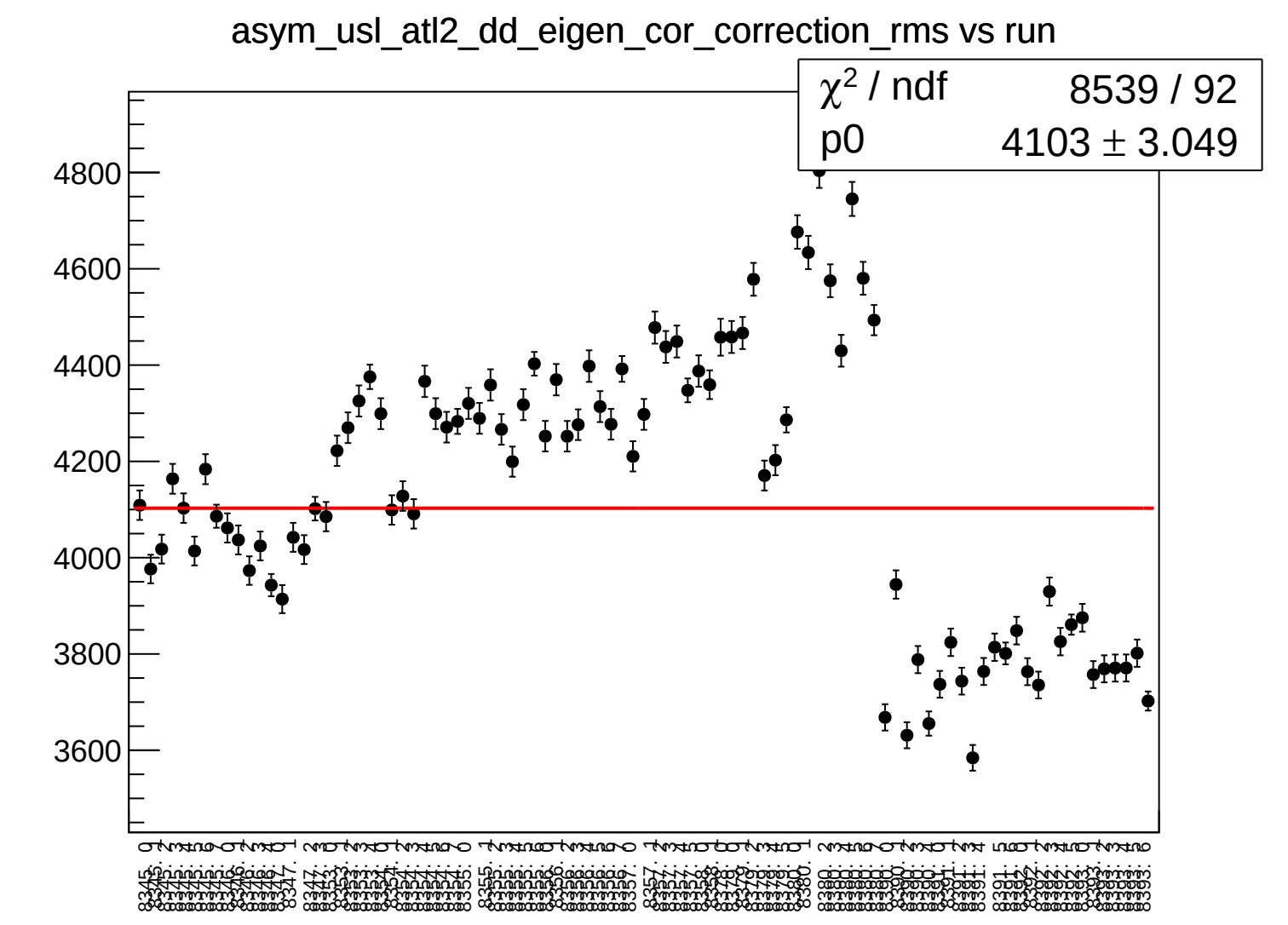

eigen_cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 115.2 / 92
p0 1222 ± 1083
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −119.9
Std Dev 0
3
2
1
0
−1
−2
−3

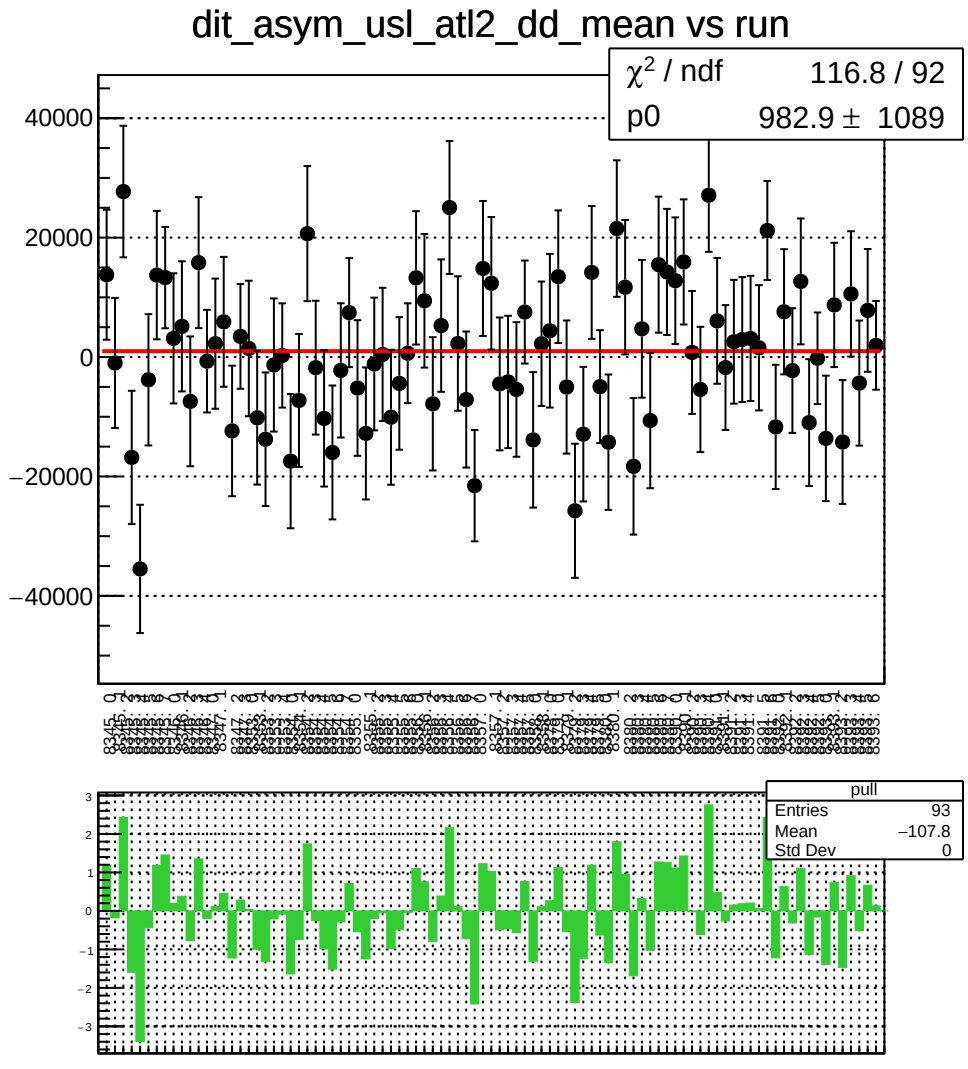

pull1D
Entries 93
Mean −0.0186
Std Dev 1.113
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

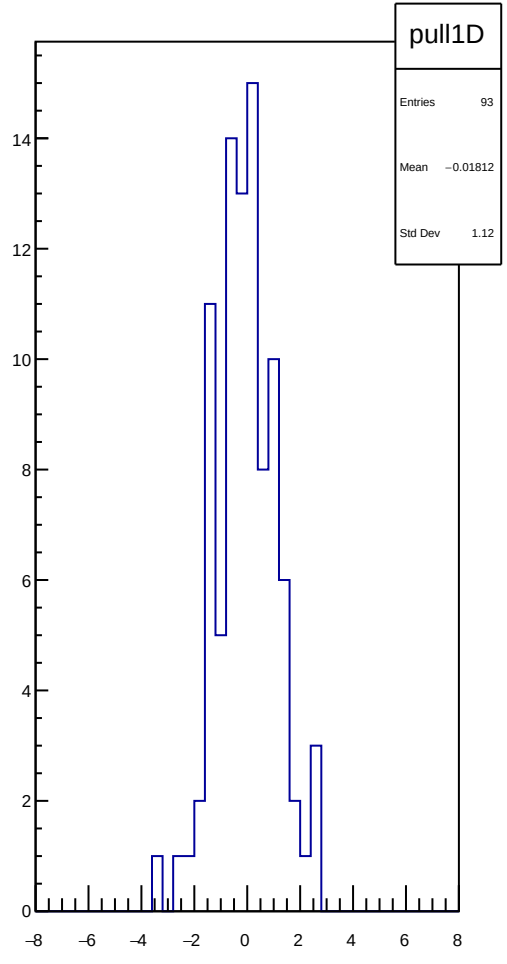

eigen_cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 2049 / 92
p0 1032 ± 0.766
1100
1080
1060
1040
1020
1000
980
960

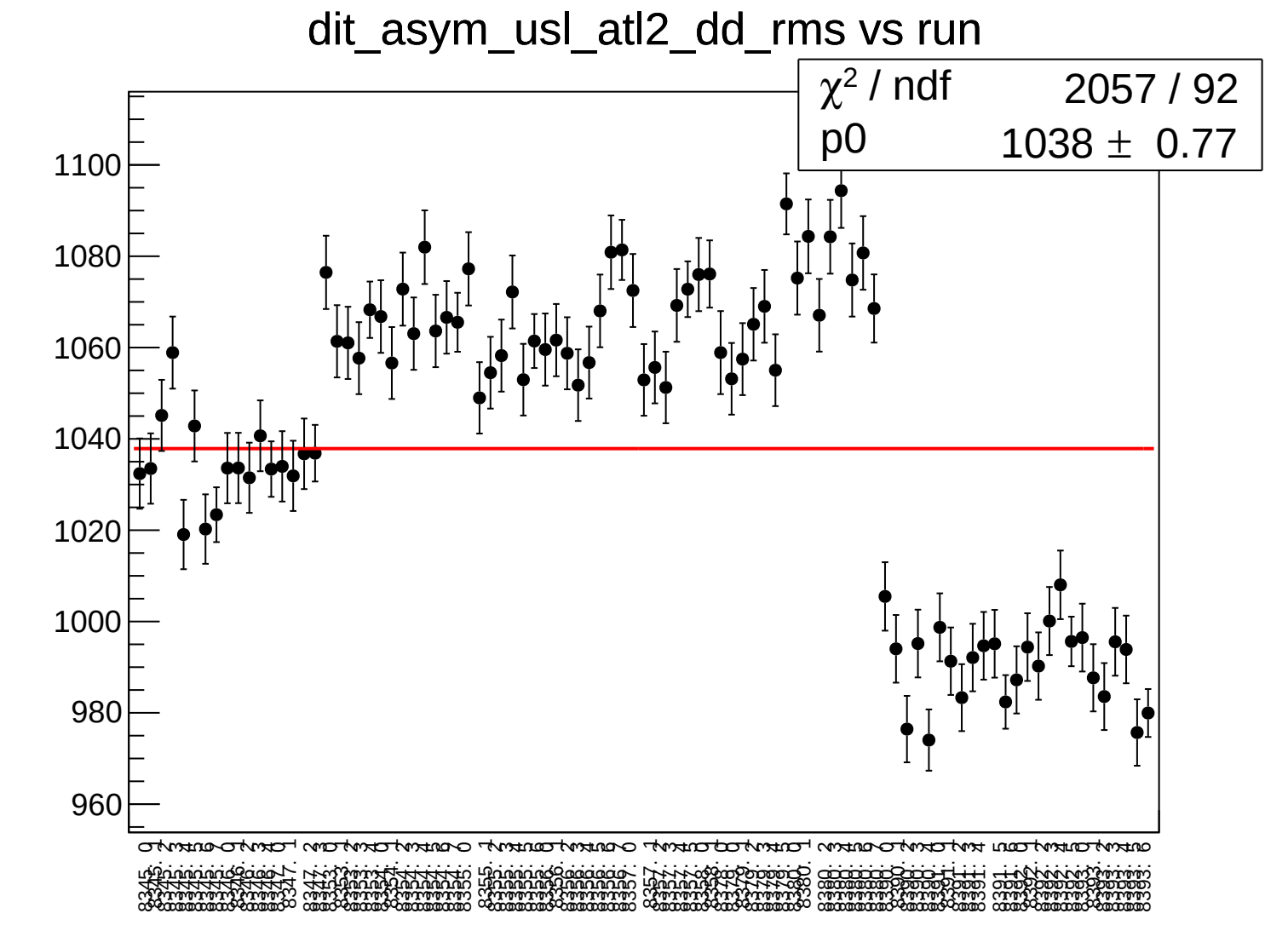

asym_usl_atl2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 95.06 / 92
p0 −7755 ± 4312
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean −164.3
Std Dev 0
2
1
0
−1
−2
−3

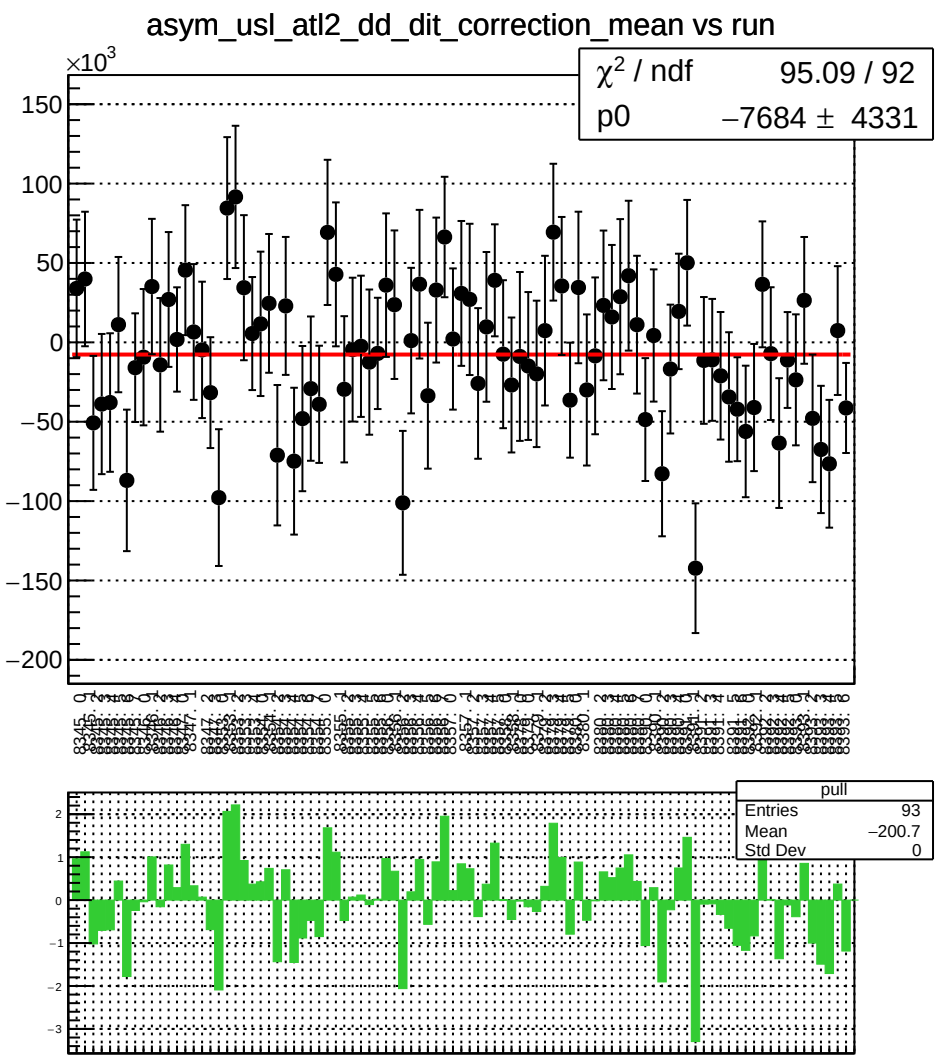

pull1D
Entries 93
Mean 0.02421
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

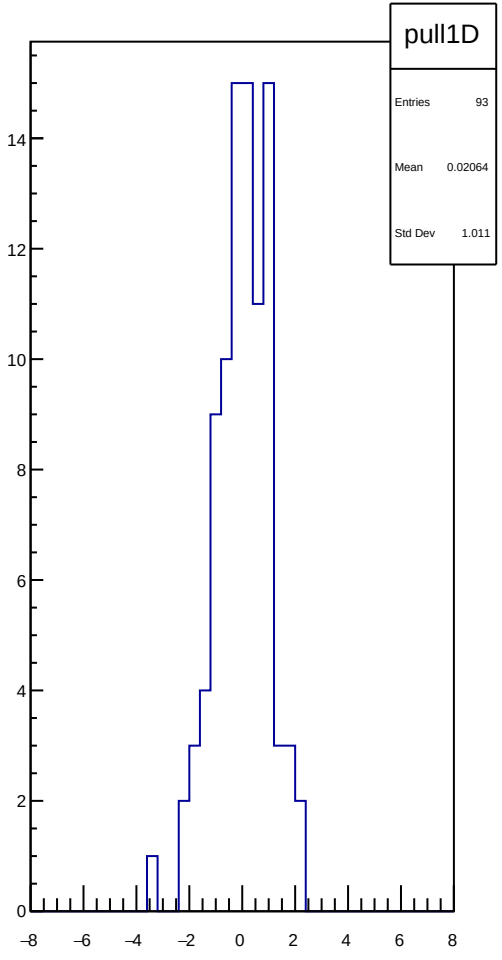

asym_usl_atl2_dd_eigen_cor_correction_rms vs run
χ² / ndf 8539 / 92
p0 4103 ± 3.049
4800
4600
4400
4200
4000
3800
3600

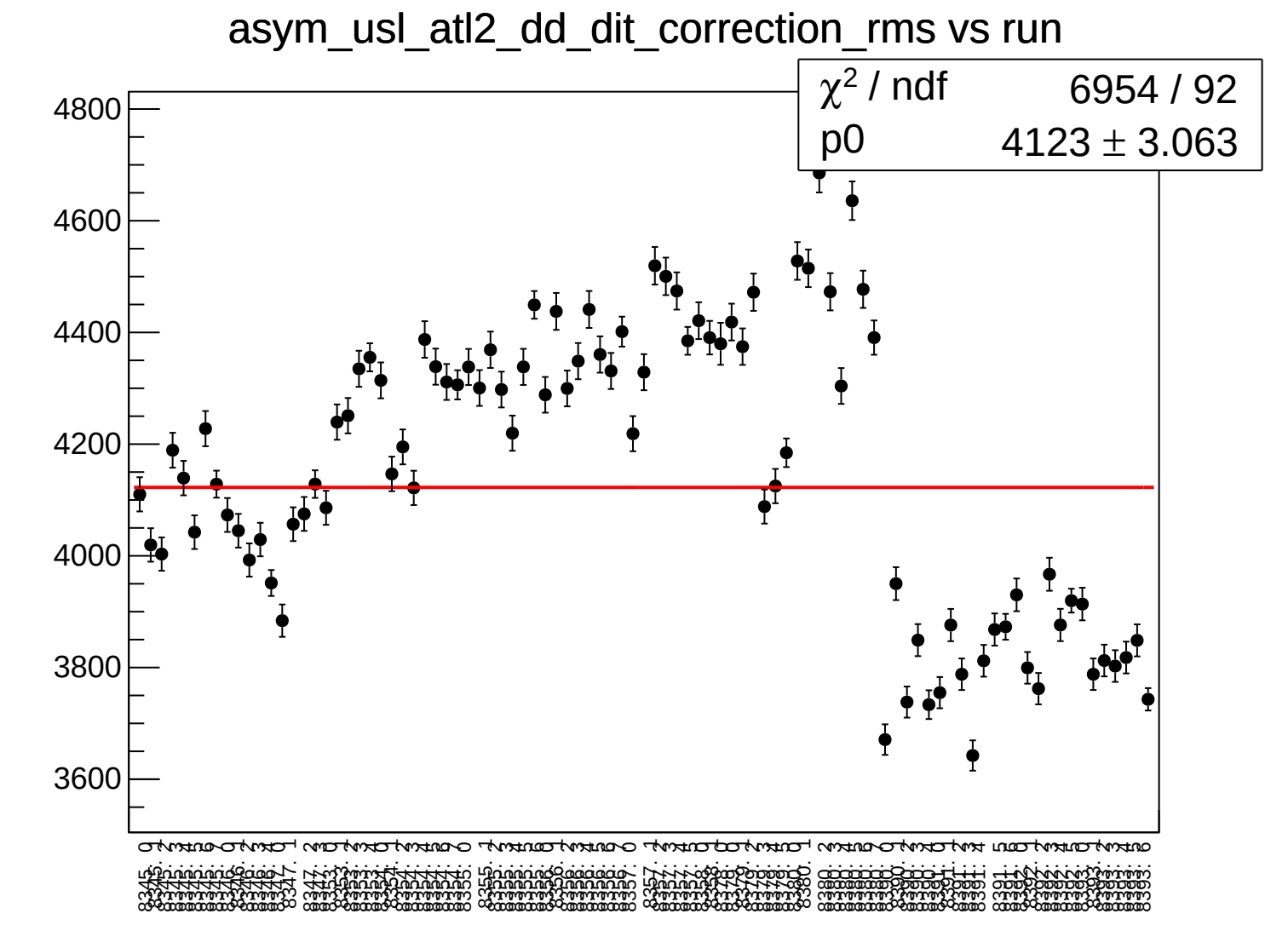

dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 116.8 / 92
p0 982.9 ± 1089
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −107.8
Std Dev 0
3
2
1
0
−1
−2
−3

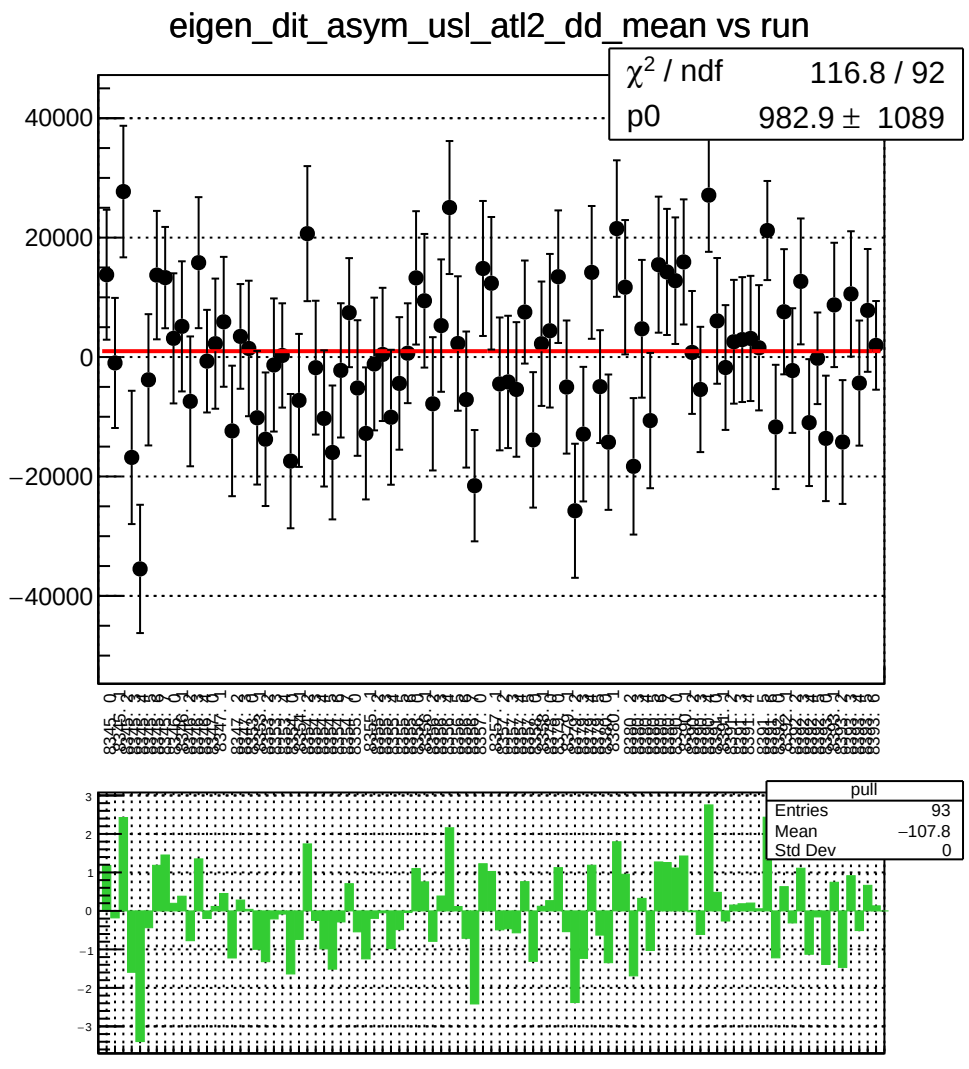

pull1D
Entries 93
Mean −0.01812
Std Dev 1.12
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

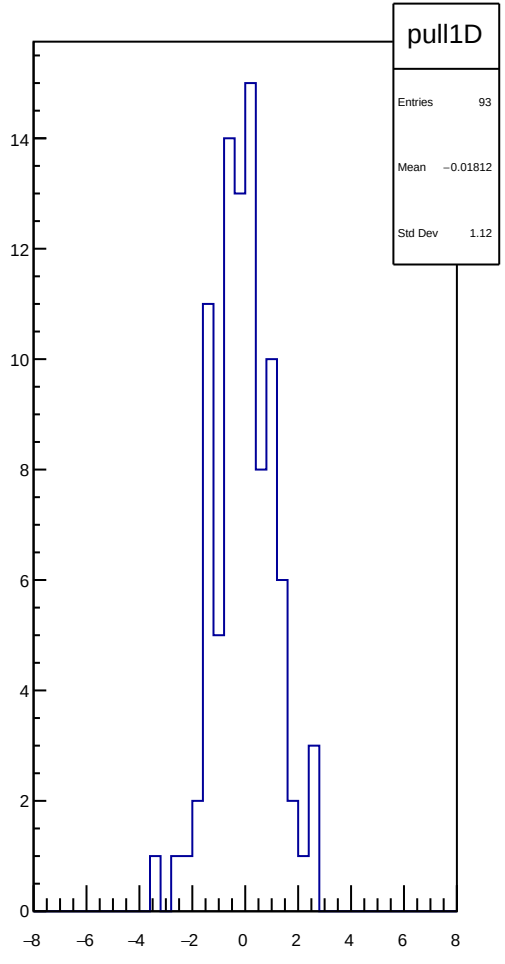

dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 2057 / 92
p0 1038 ± 0.77
1100
1080
1060
1040
1020
1000
980
960

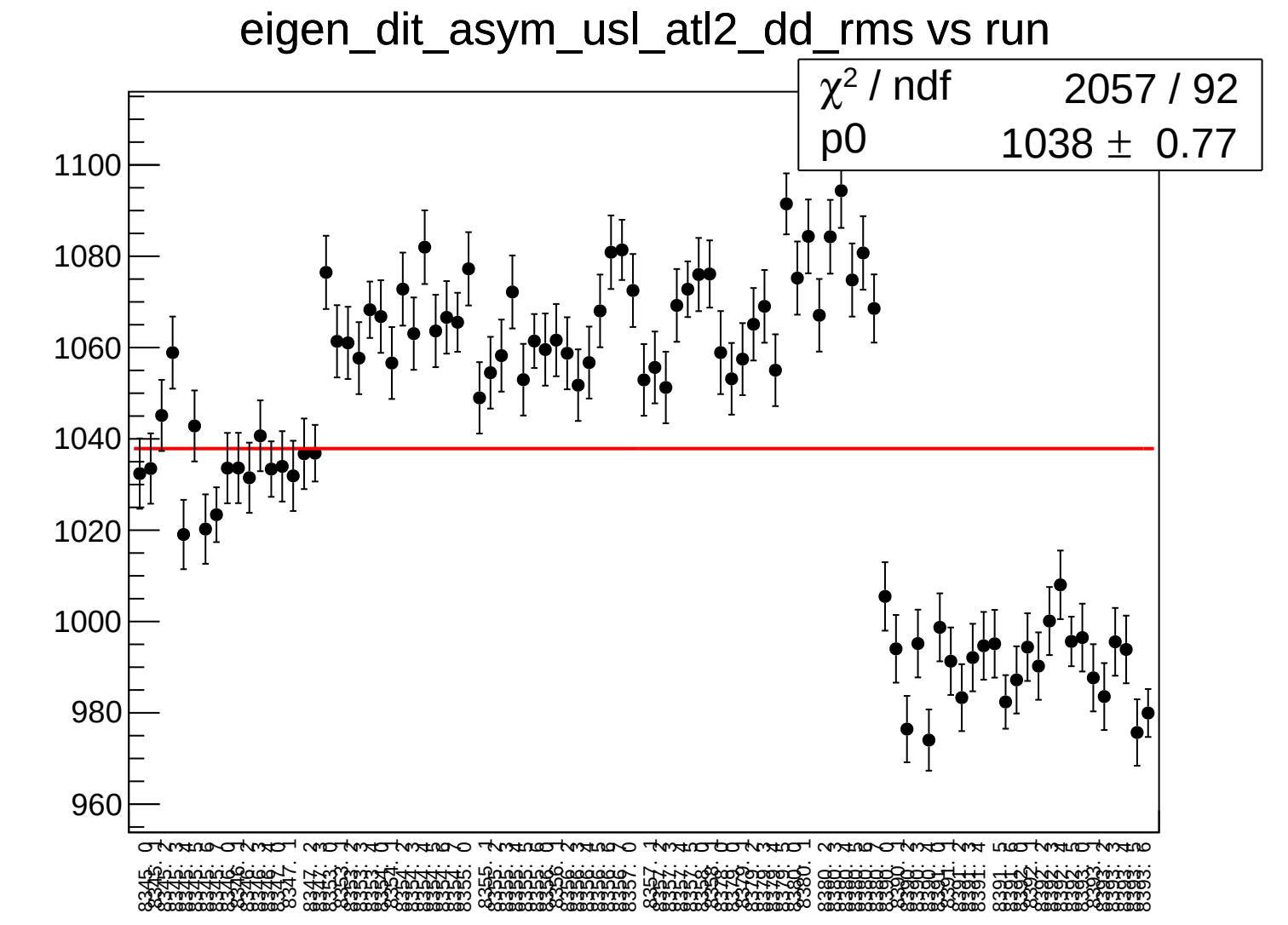

asym_usl_atl2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 95.09 / 92
p0 −7684 ± 4331
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean −200.7
Std Dev 0
2
1
0
−1
−2
−3

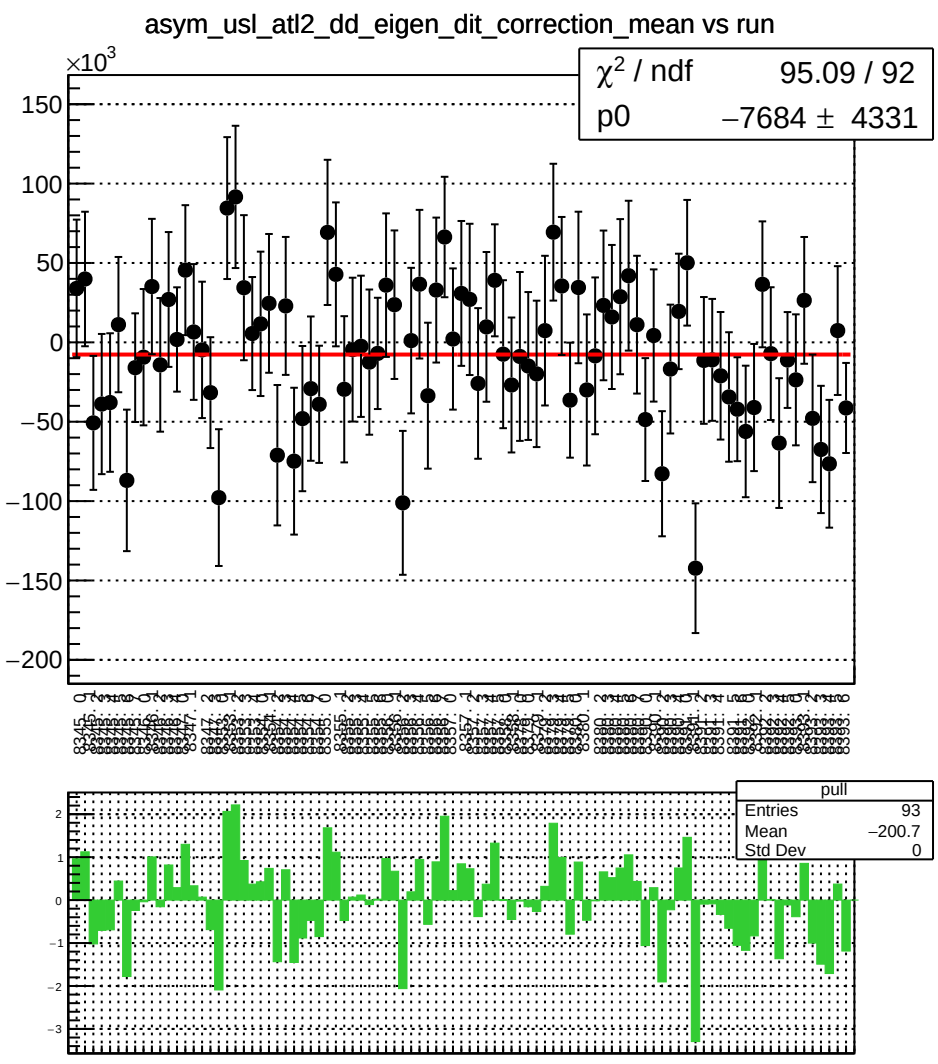

pull1D
Entries 93
Mean 0.02064
Std Dev 1.011
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

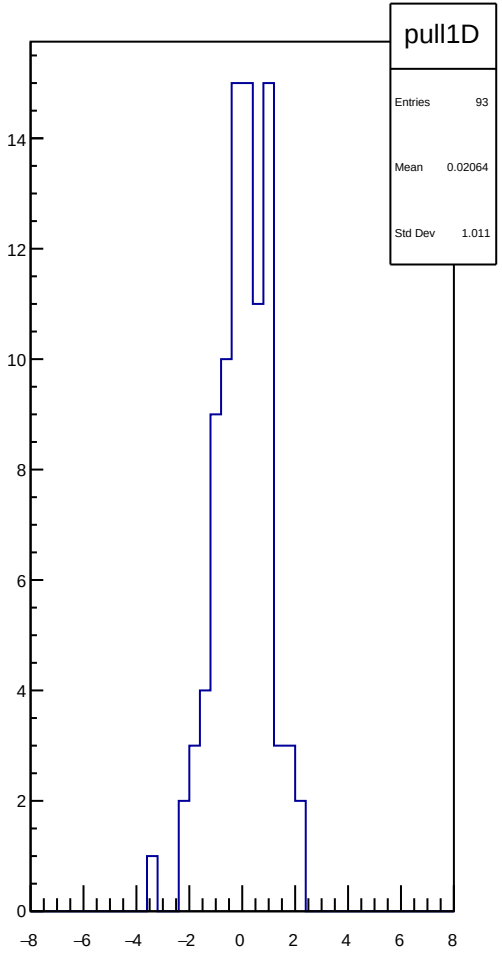

asym_usl_atl2_dd_dit_correction_rms vs run
χ² / ndf 6954 / 92
p0 4123 ± 3.063
4800
4600
4400
4200
4000
3800
3600

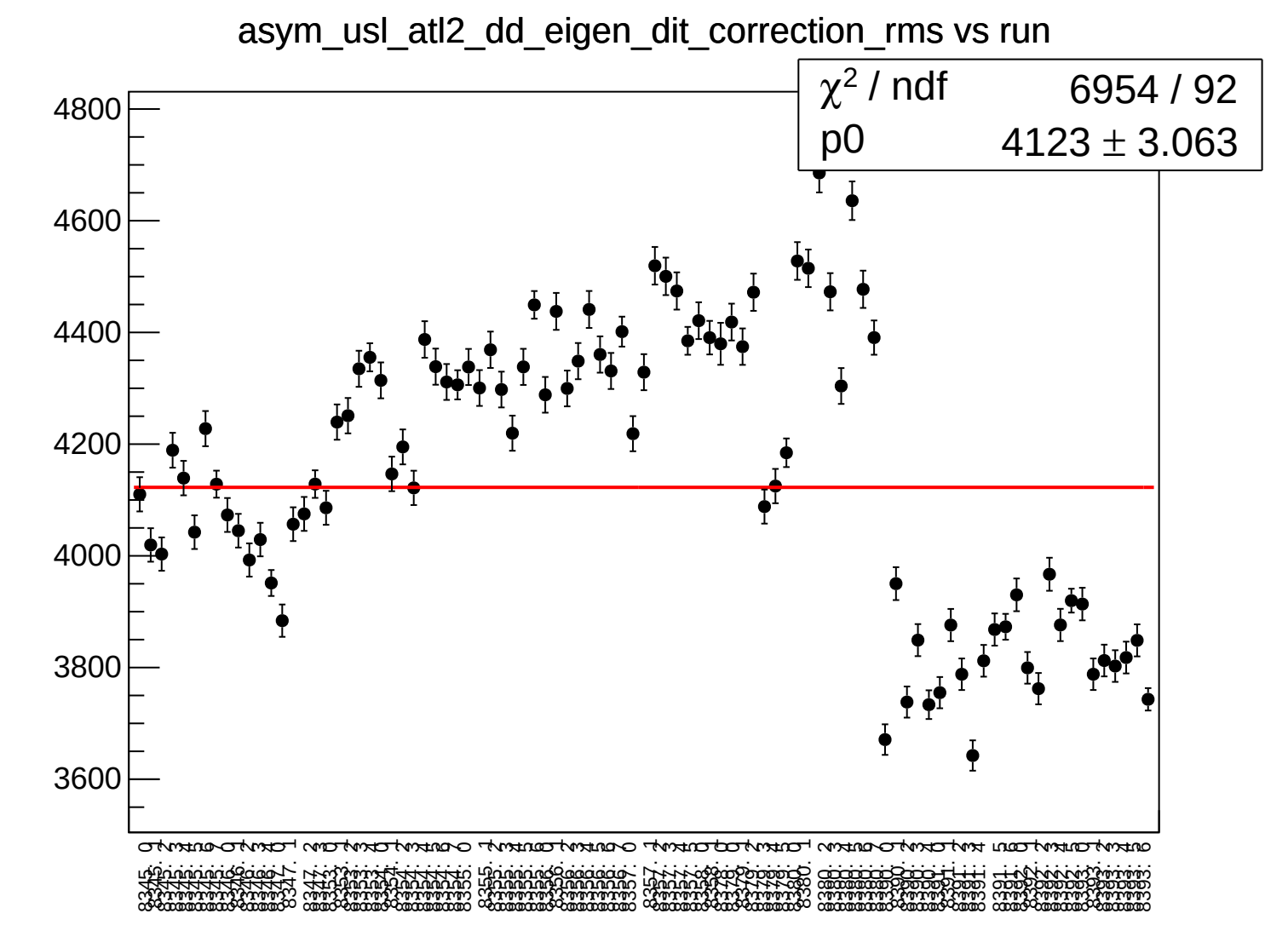

eigen_dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 116.8 / 92
p0 982.9 ± 1089
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −107.8
Std Dev 0
3
2
1
0
−1
−2
−3

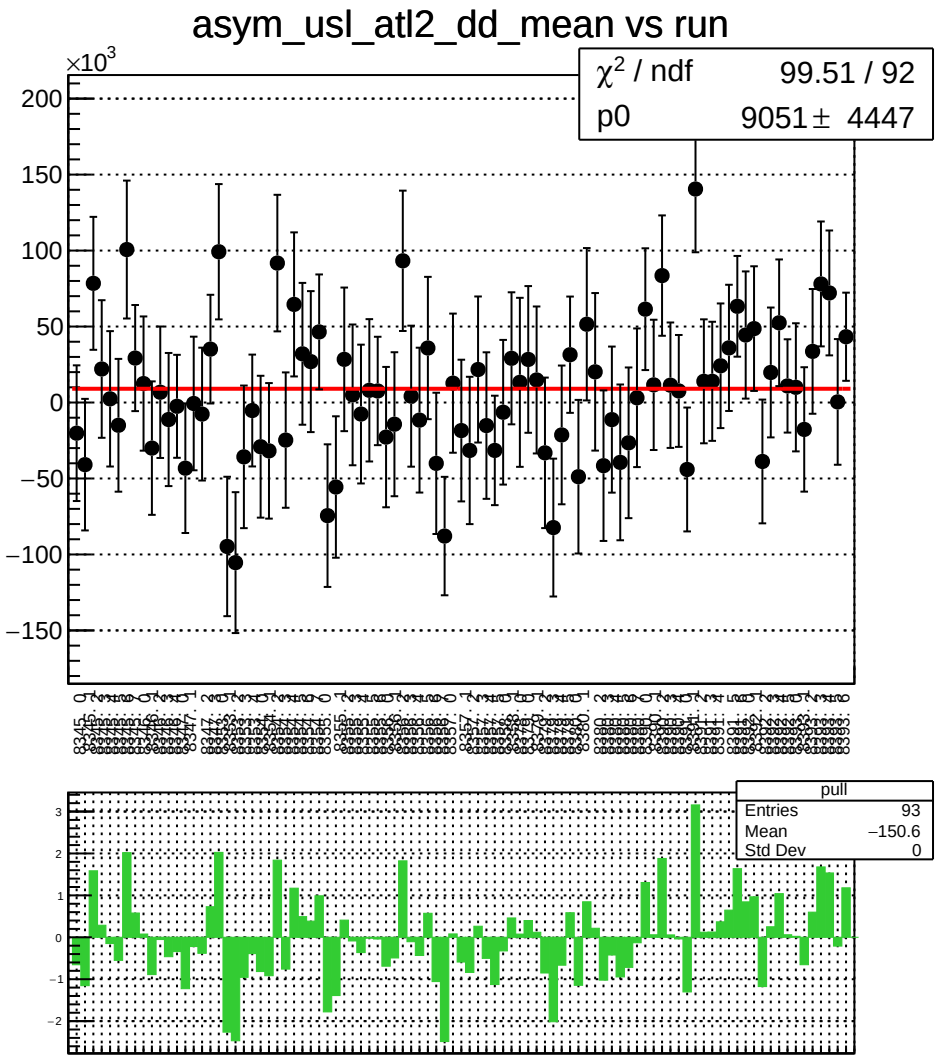

pull1D
Entries 93
Mean −0.01812
Std Dev 1.12
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

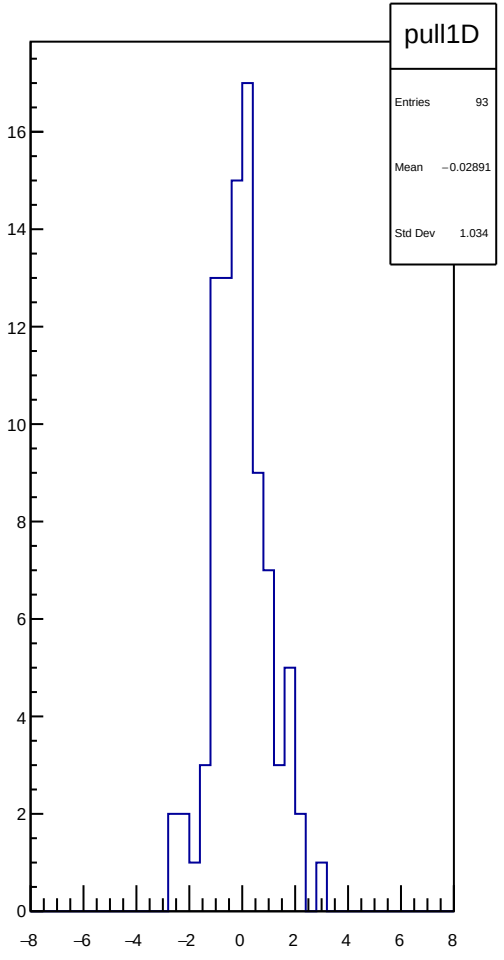

eigen_dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 2057 / 92
p0 1038 ± 0.77
1100
1080
1060
1040
1020
1000
980
960

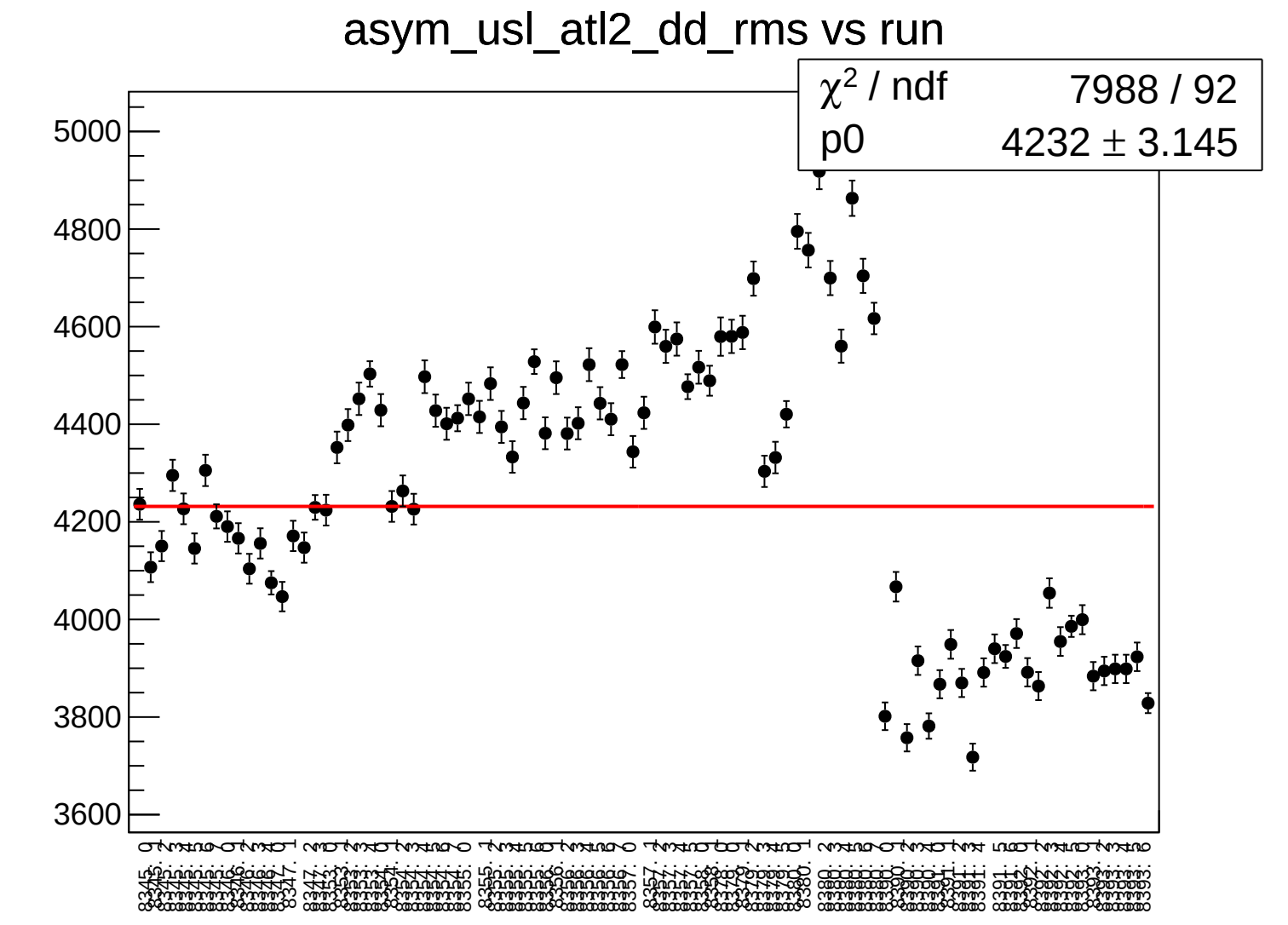

asym_usl_atl2_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 95.09 / 92
p0 −7684 ± 4331
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean −200.7
Std Dev 0
2
1
0
−1
−2
−3

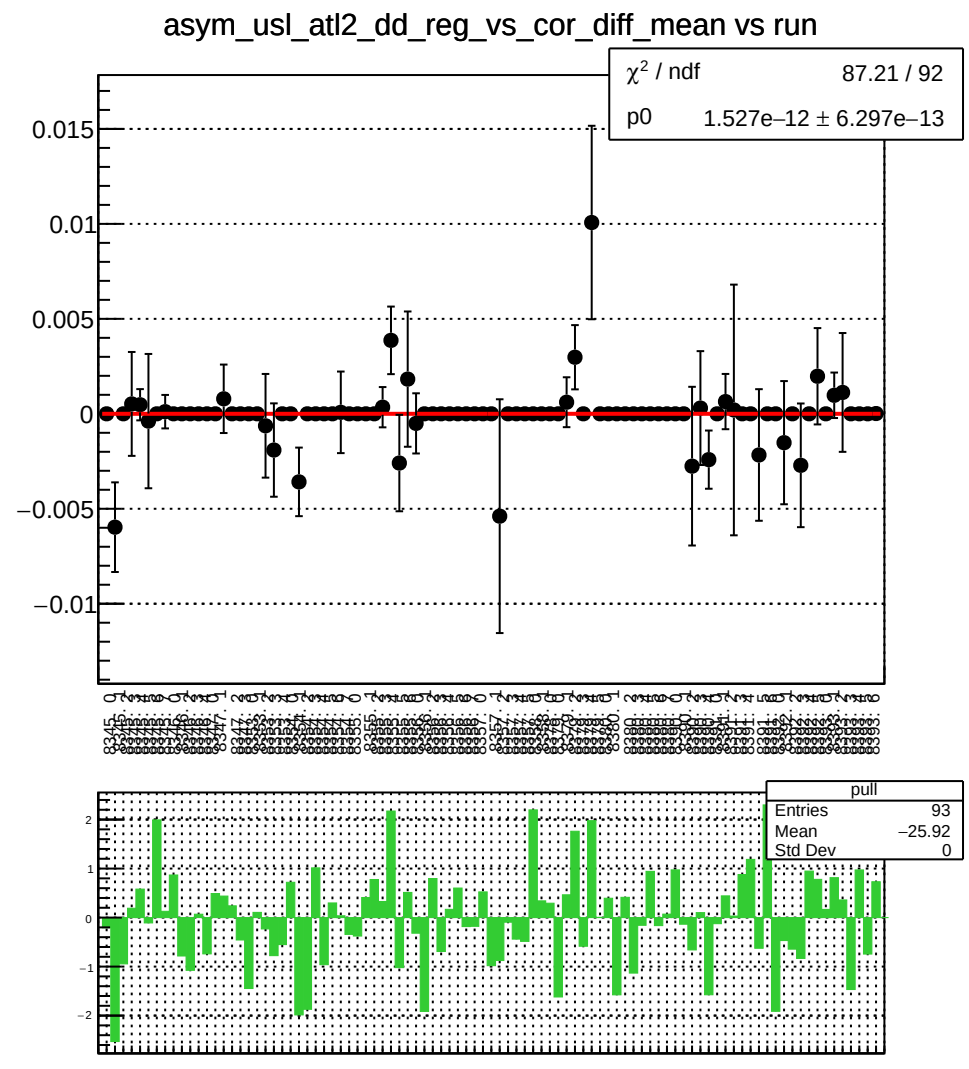

pull1D
Entries 93
Mean 0.02064
Std Dev 1.011
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

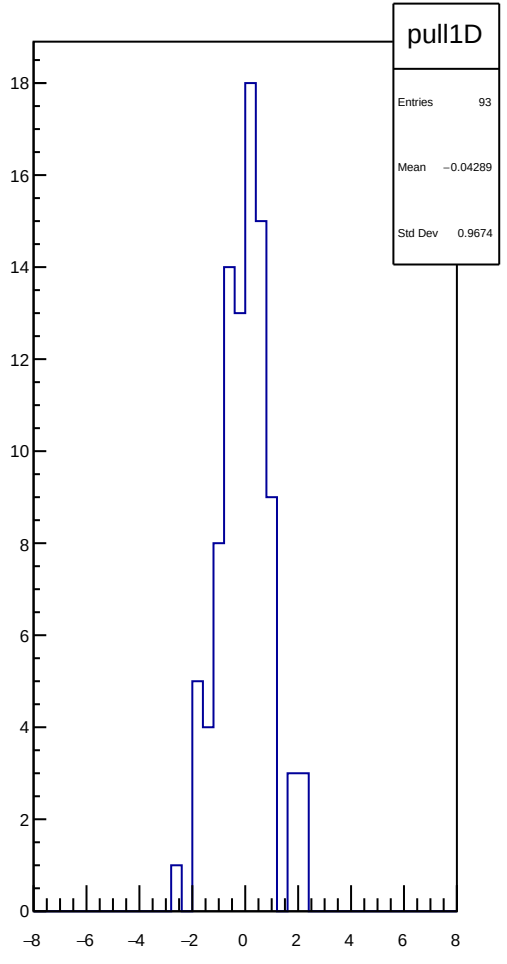

asym_usl_atl2_dd_eigen_dit_correction_rms vs run
χ² / ndf 6954 / 92
p0 4123 ± 3.063
4800
4600
4400
4200
4000
3800
3600

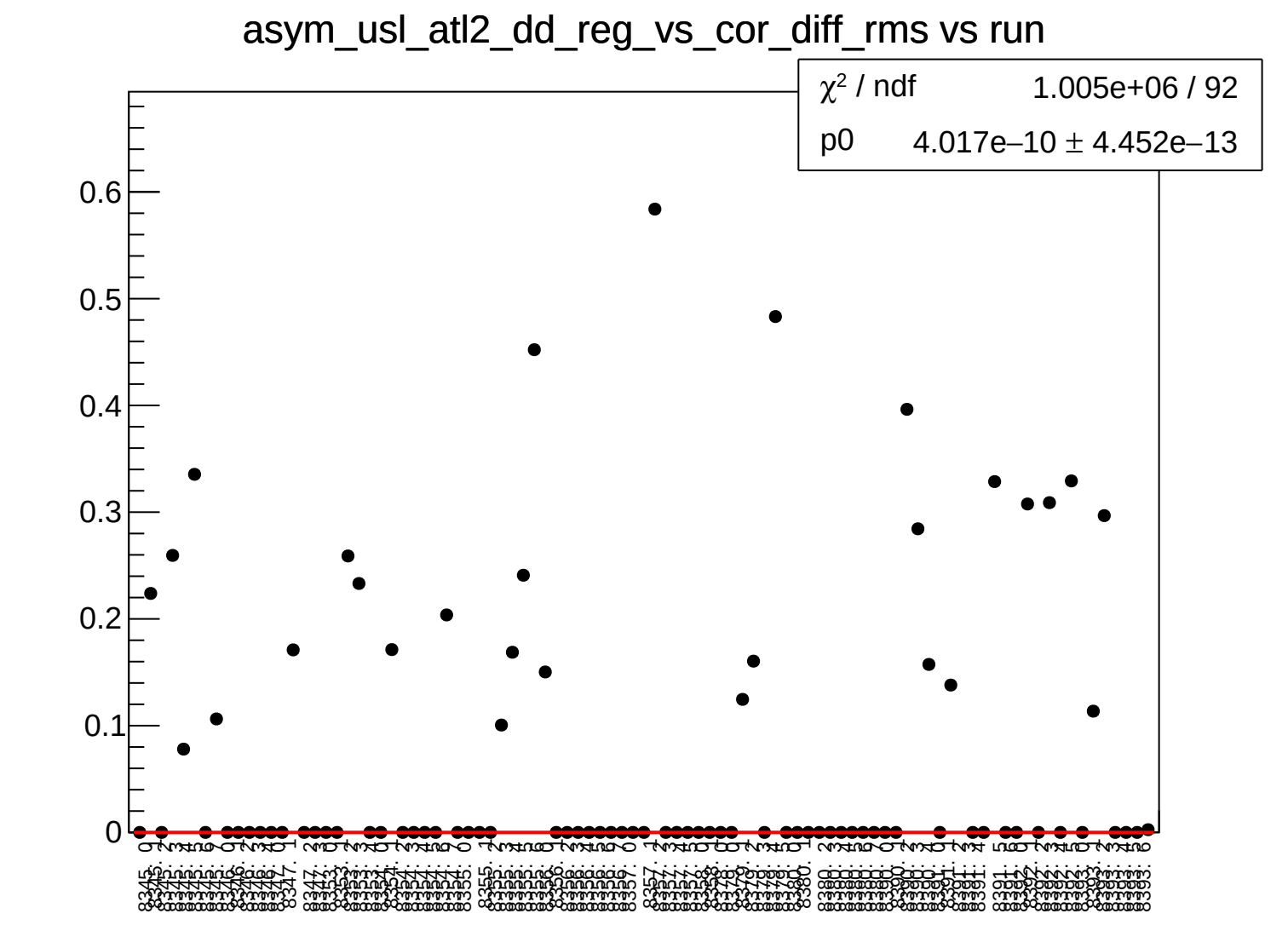

asym_usl_atl2_dd_mean vs run
×10^3
χ² / ndf 99.51 / 92
p0 9051 ± 4447
pull
Entries 93
Mean −150.6
Std Dev 0

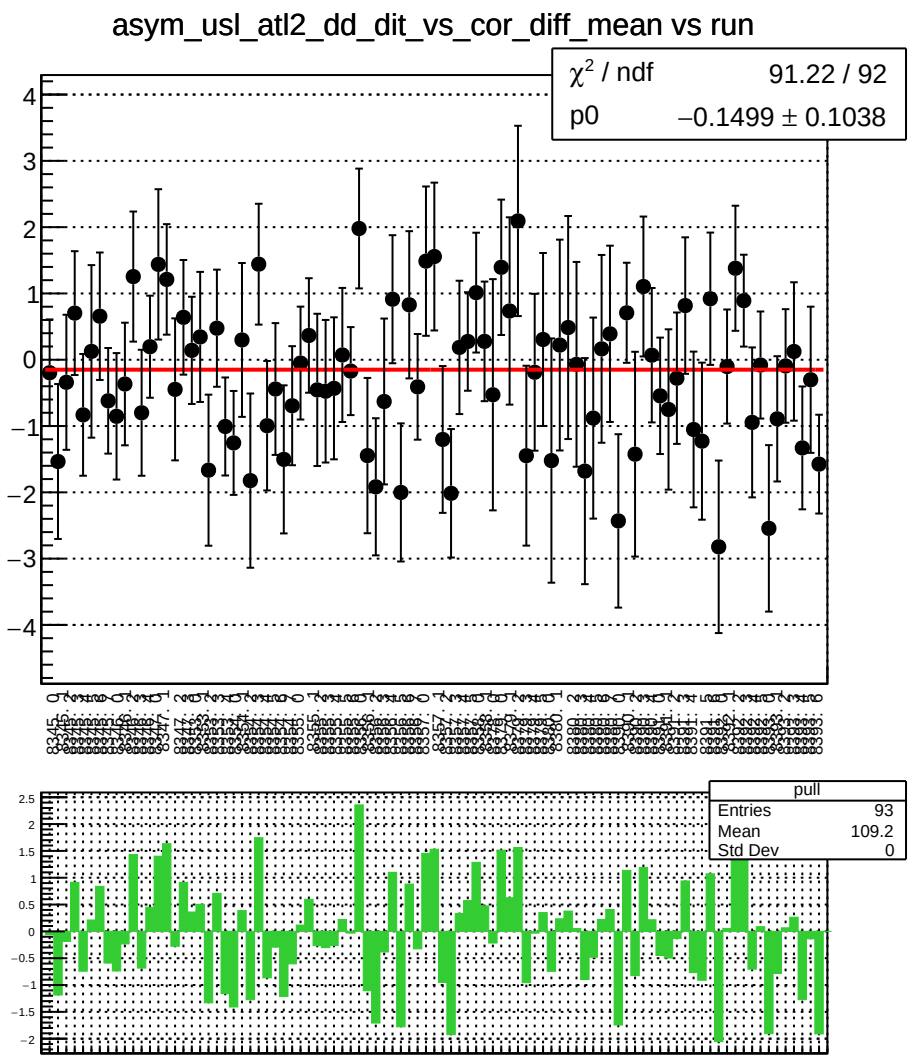

pull1D
Entries 93
Mean −0.02891
Std Dev 1.034

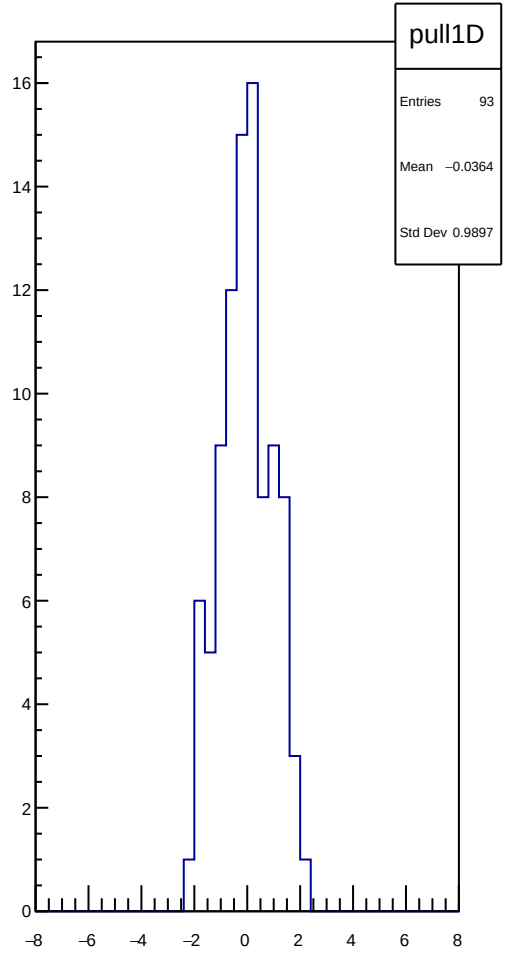

asym_usl_atl2_dd_rms vs run
χ² / ndf 7988 / 92
p0 4232 ± 3.145
5000
4800
4600
4400
4200
4000
3800
3600

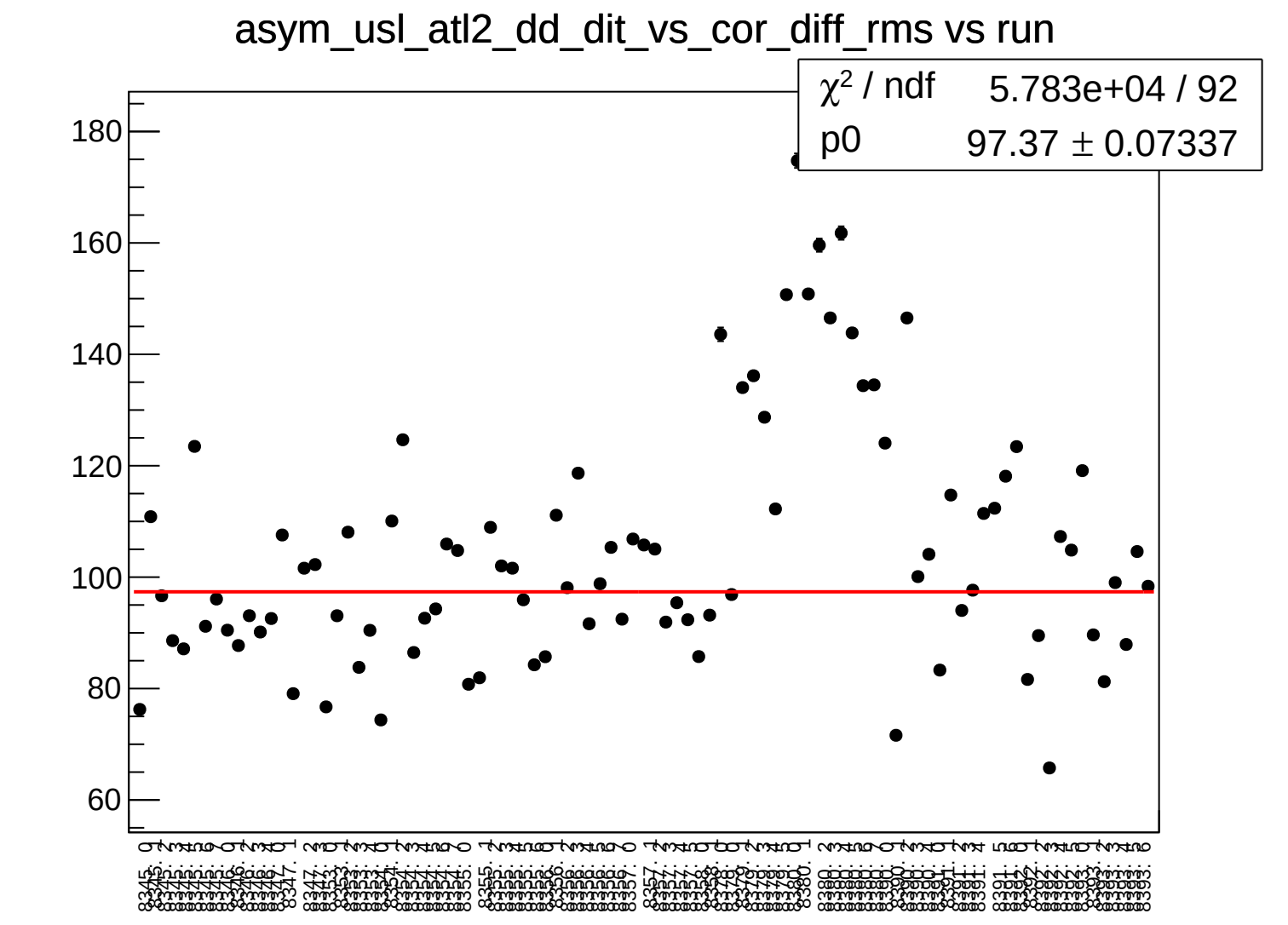

asym_usl_atl2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 87.21 / 92
p0 1.527e−12 ± 6.297e−13
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 93
Mean −25.92
Std Dev 0
2
1
0
−1
−2

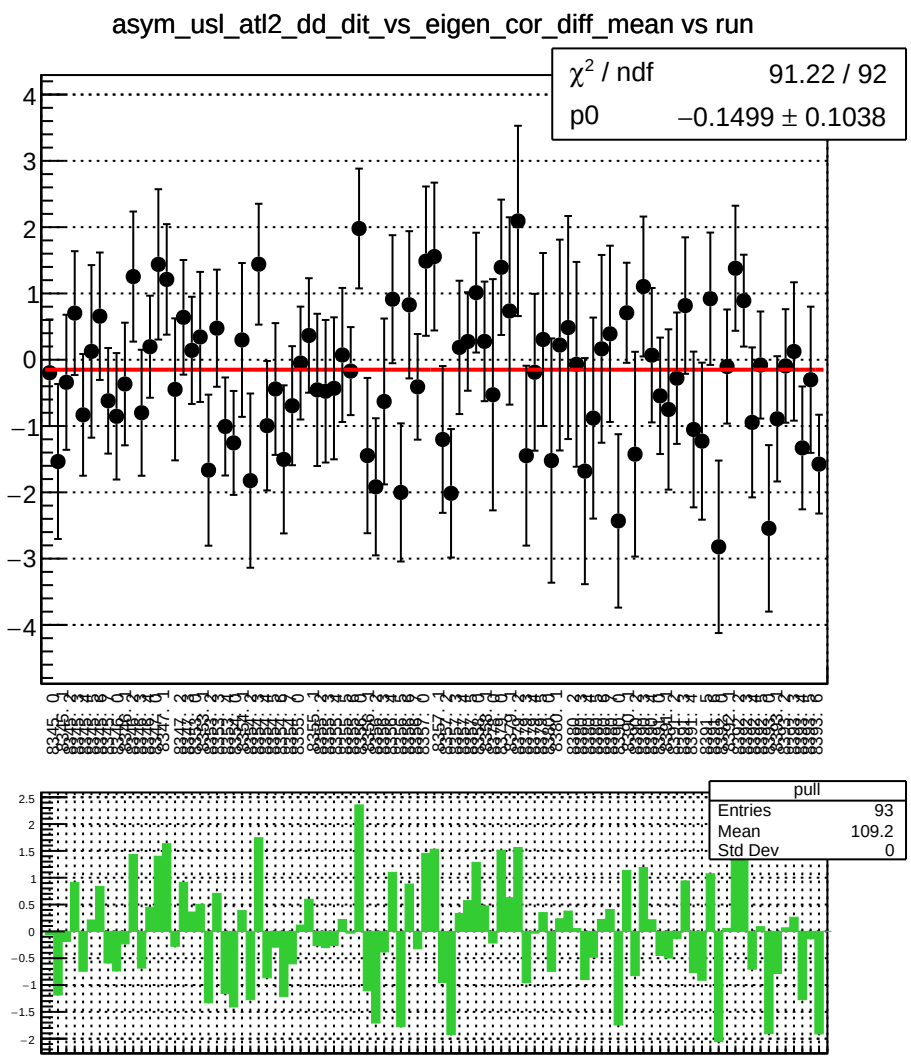

pull1D
Entries 93
Mean −0.04289
Std Dev 0.9674
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

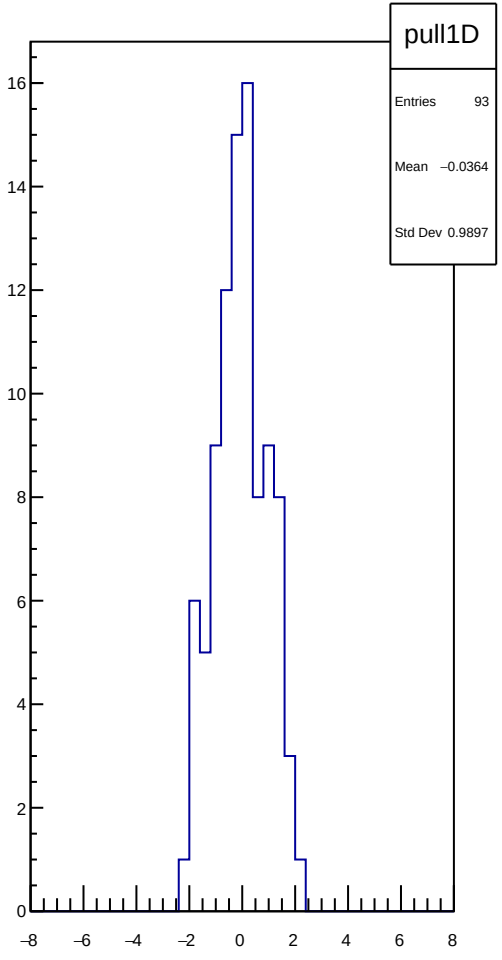

asym_usl_atl2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.005e+06 / 92
p0 4.017e−10 ± 4.452e−13
0.6
0.5
0.4
0.3
0.2
0.1
0

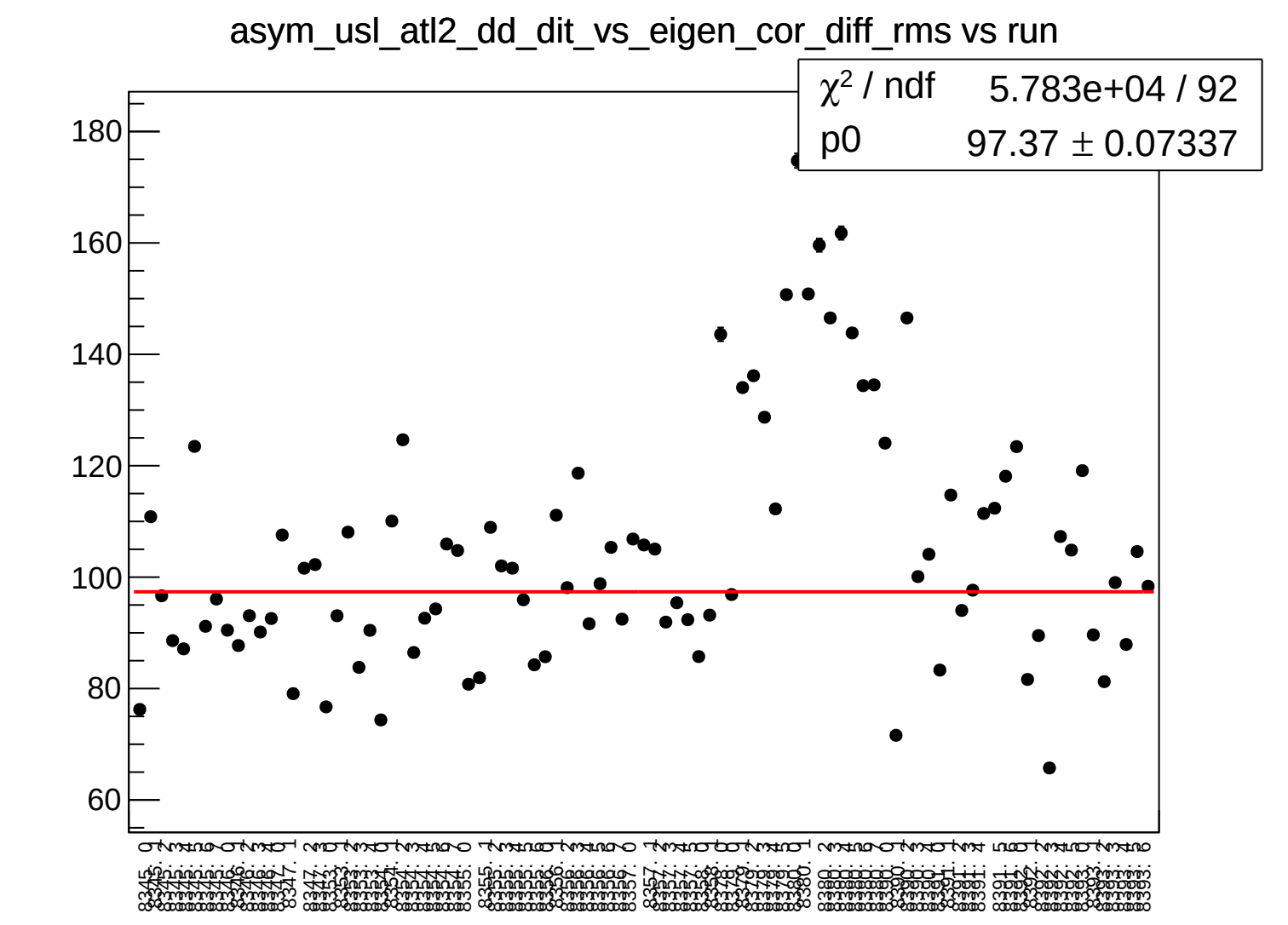

asym_usl_atl2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 91.22 / 92
p0 −0.1499 ± 0.1038
pull
Entries 93
Mean 109.2
Std Dev 0

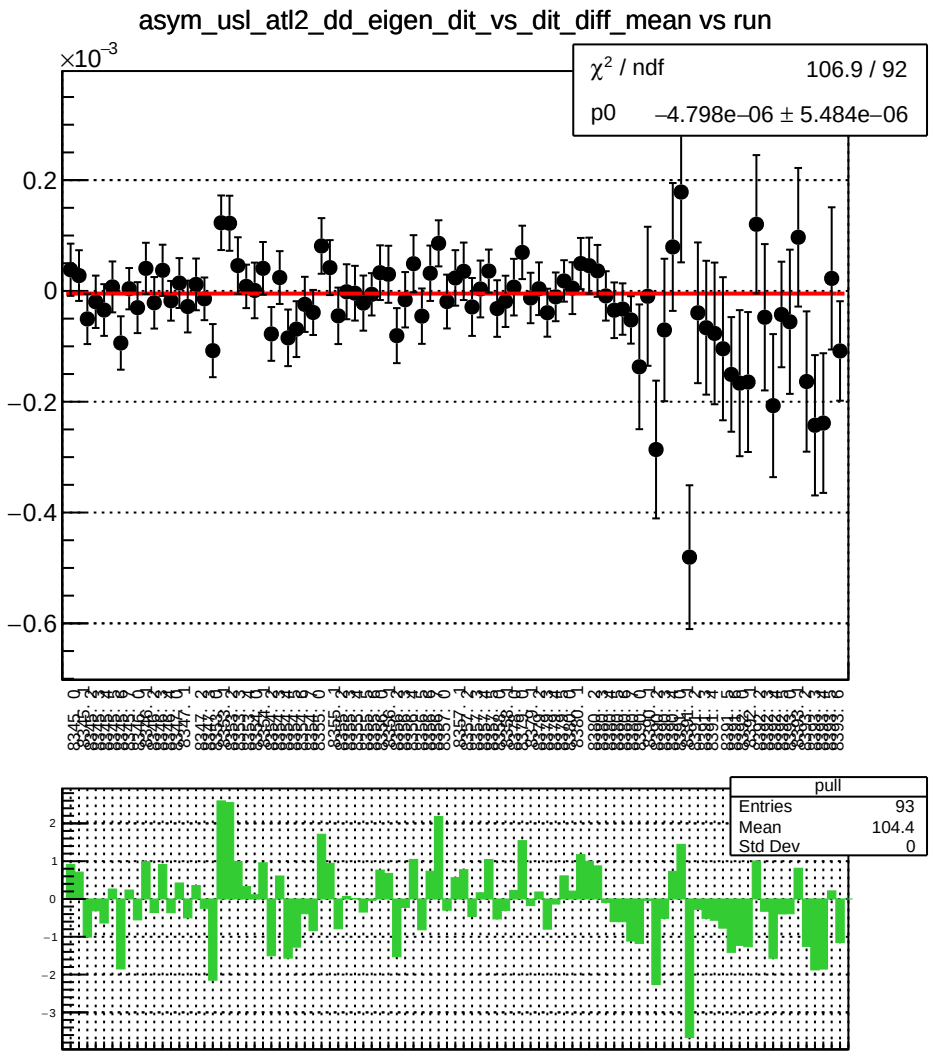

pull1D
Entries 93
Mean −0.0364
Std Dev 0.9897

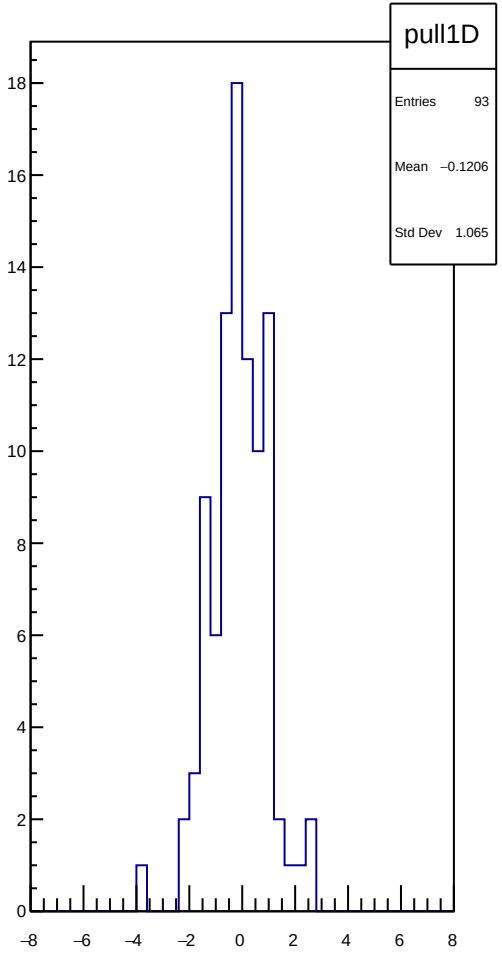

asym_usl_atl2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.783e+04 / 92
p0 97.37 ± 0.07337
180
160
140
120
100
80
60

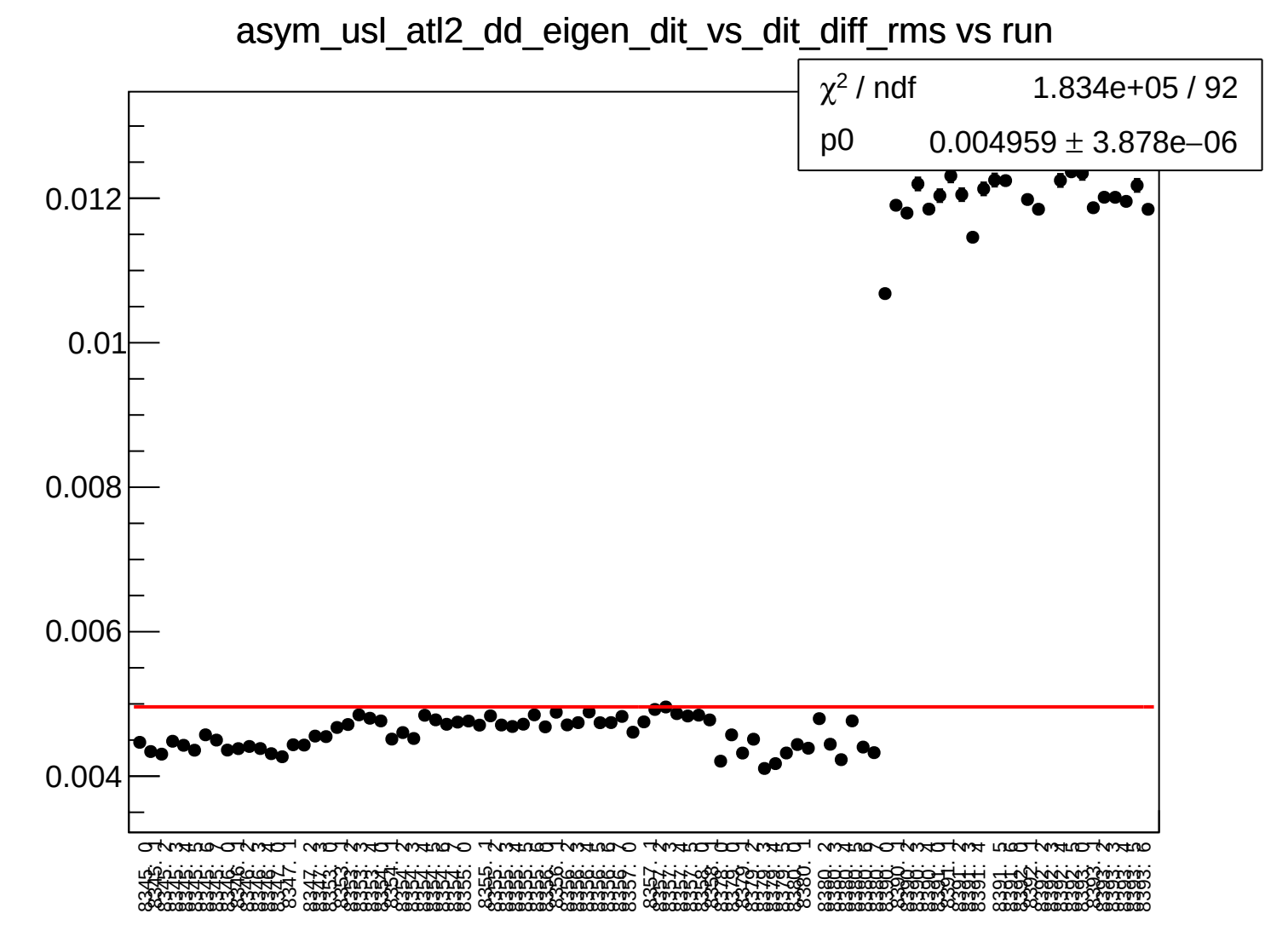

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.22 / 92
p0 −0.1499 ± 0.1038
pull
Entries 93
Mean 109.2
Std Dev 0

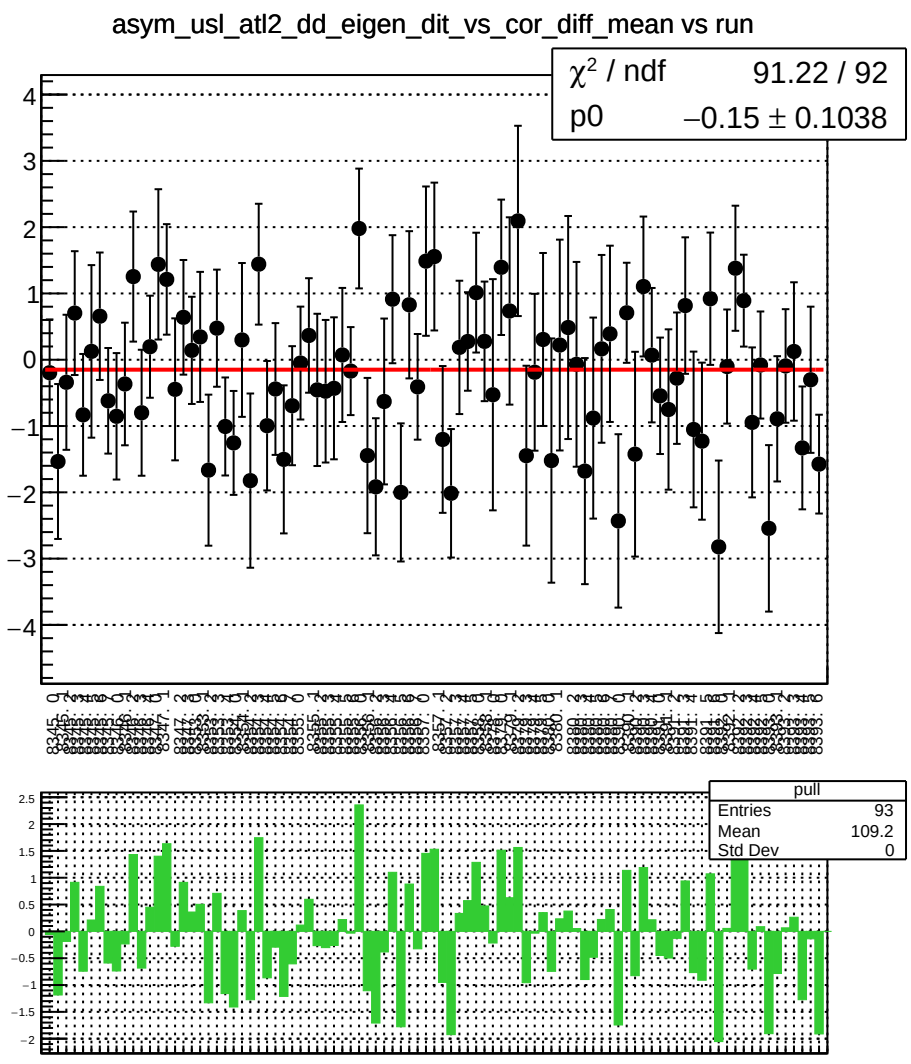

pull1D
Entries 93
Mean −0.0364
Std Dev 0.9897

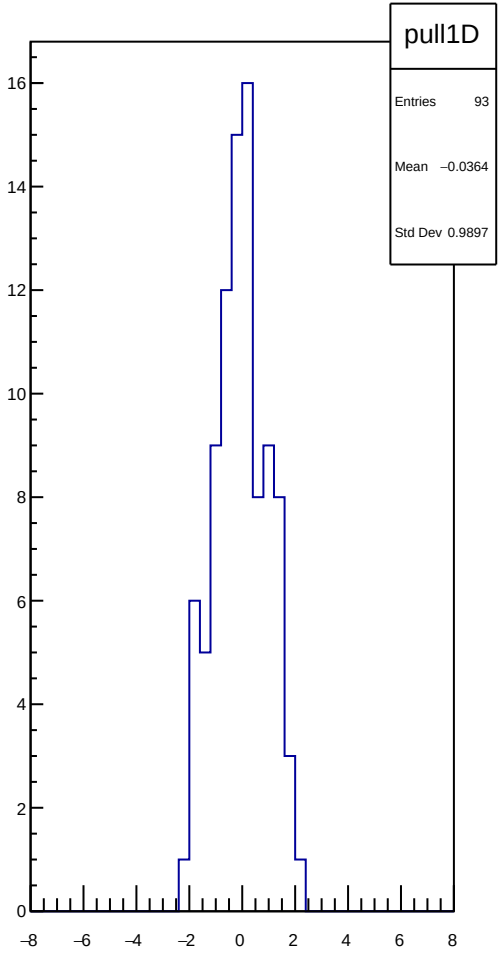

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.783e+04 / 92
p0 97.37 ± 0.07337
180
160
140
120
100
80
60

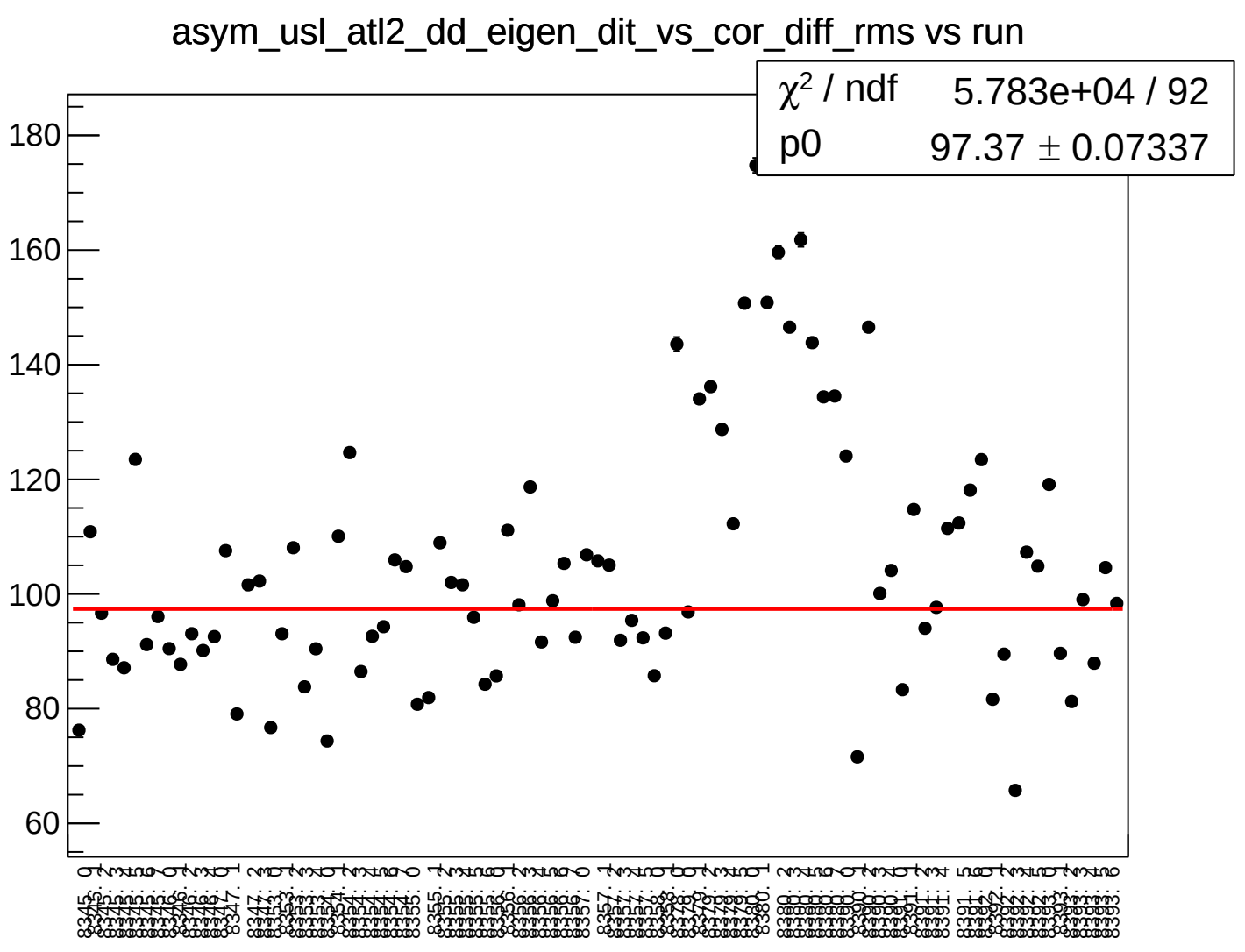

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 106.9 / 92
p0 −4.798e−06 ± 5.484e−06
0.2
0
−0.2
−0.4
−0.6
pull
Entries 93
Mean 104.4
Std Dev 0
2
1
0
−1
−2
−3

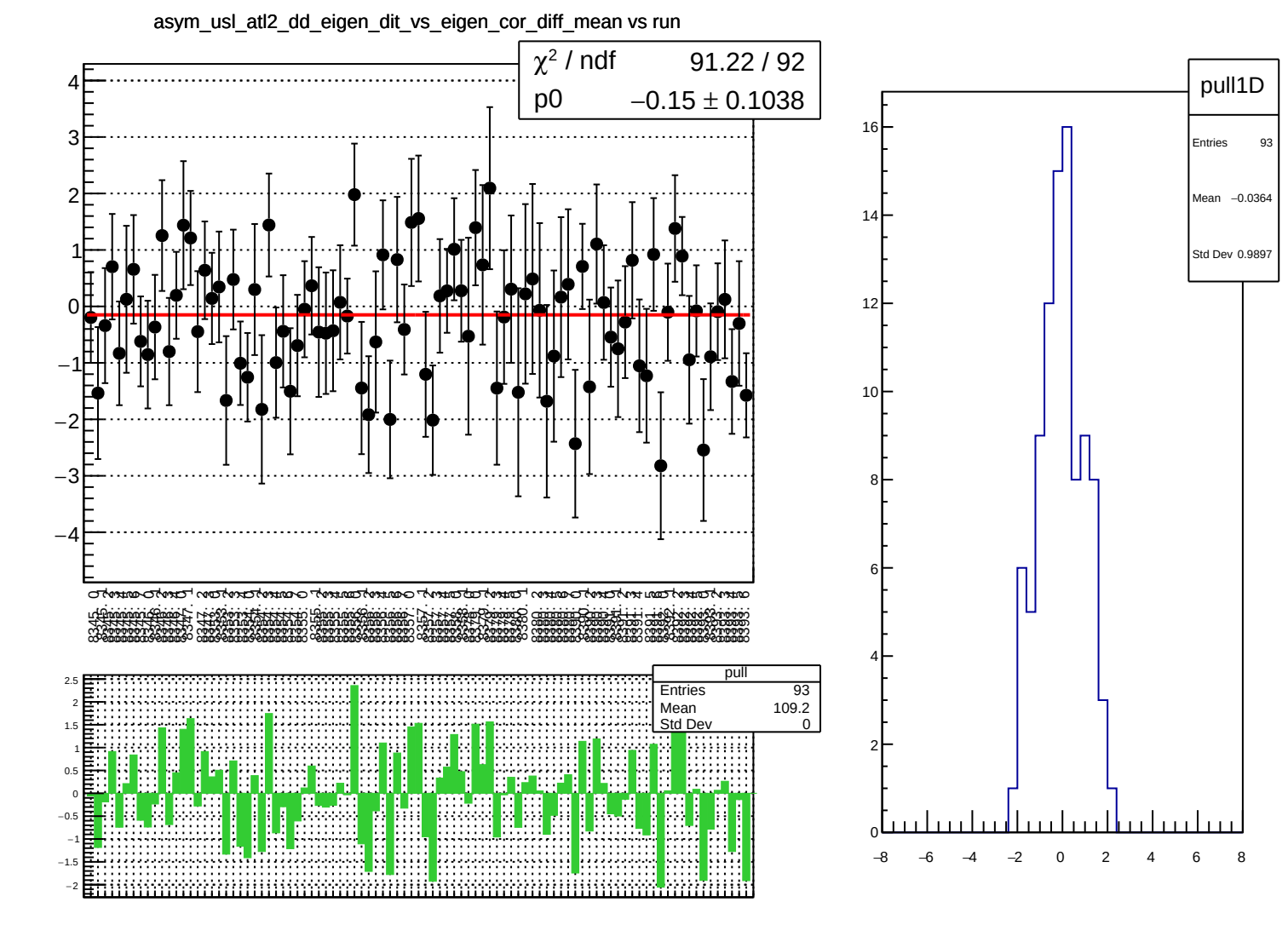

pull1D
Entries 93
Mean −0.1206
Std Dev 1.065
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

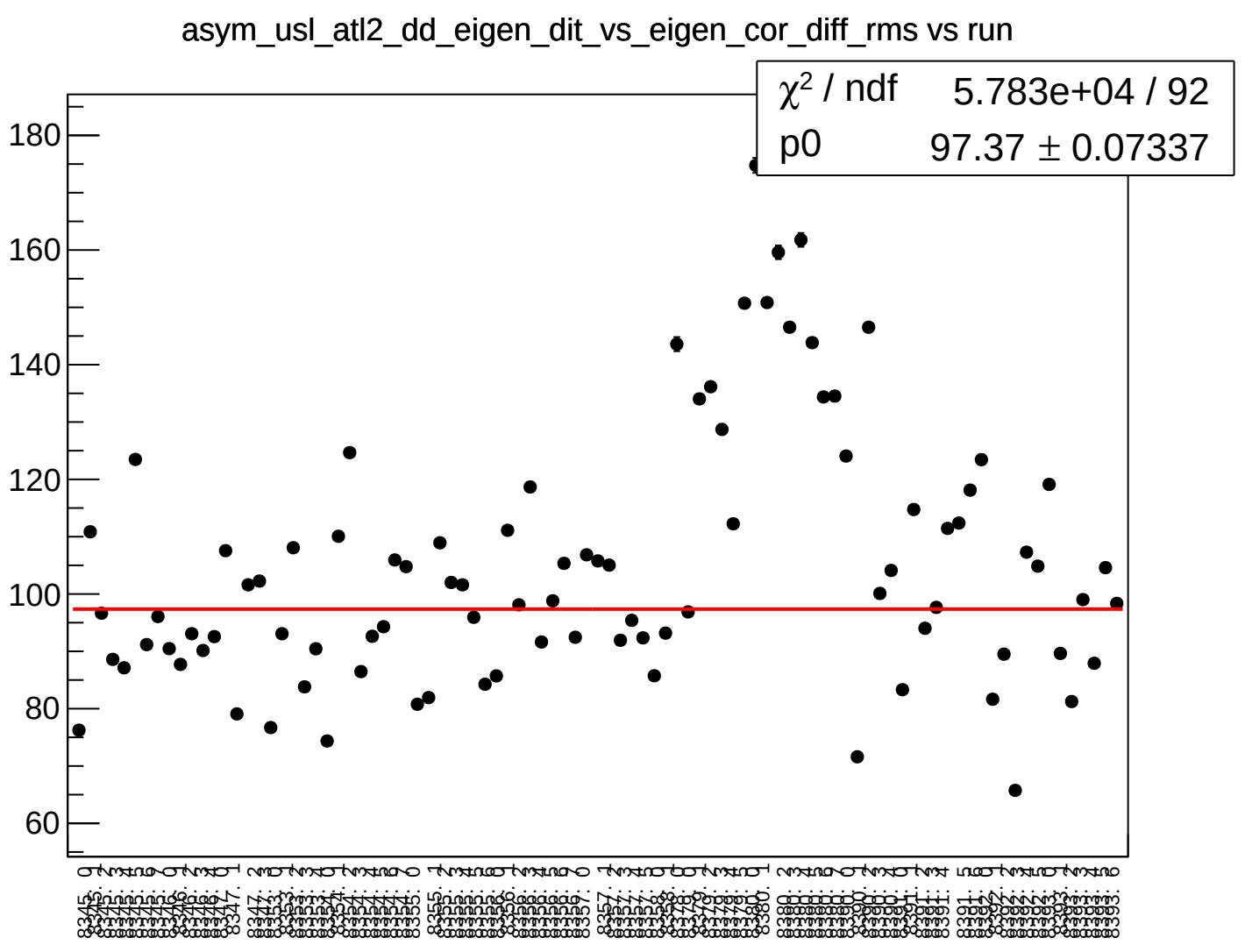

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.834e+05 / 92
p0 0.004959 ± 3.878e−06
0.012
0.01
0.008
0.006
0.004

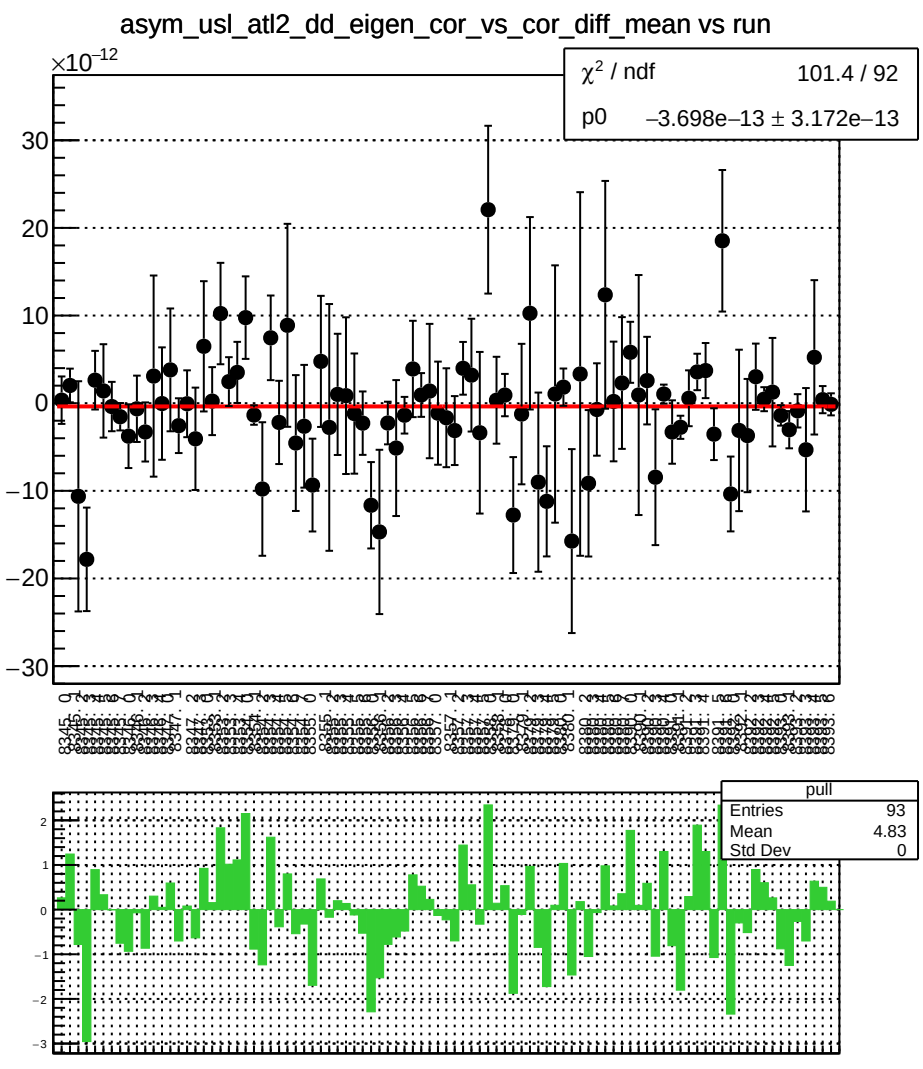

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.22 / 92
p0 −0.15 ± 0.1038
pull
Entries 93
Mean 109.2
Std Dev 0

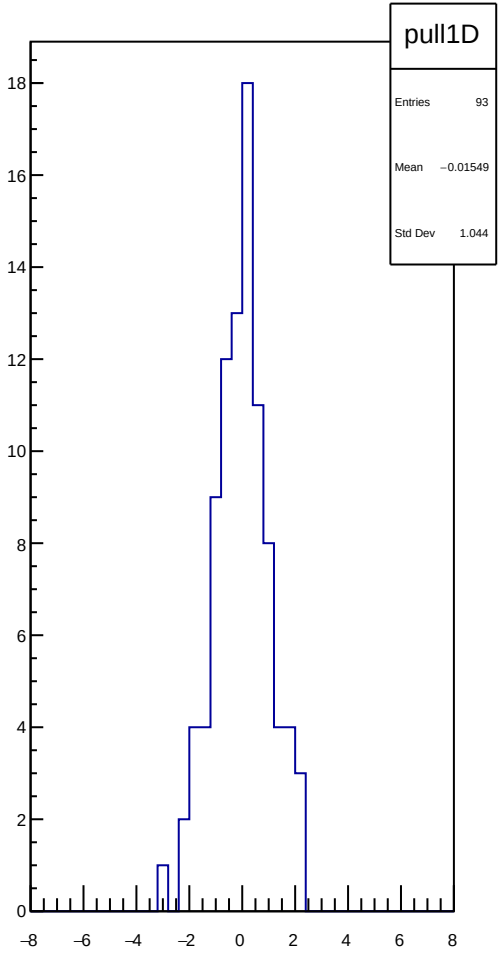

pull1D
Entries 93
Mean −0.0364
Std Dev 0.9897

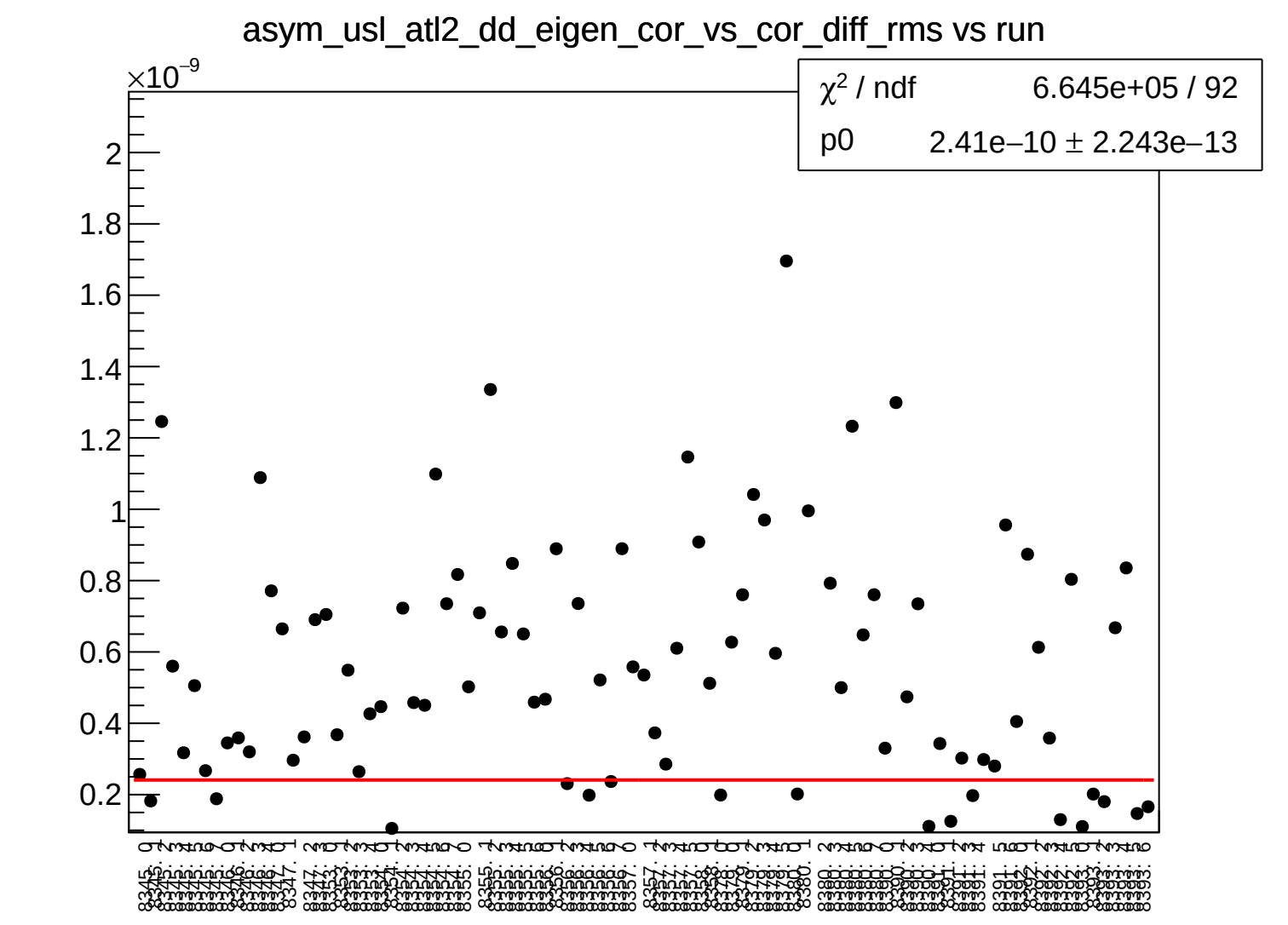

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.783e+04 / 92
p0 97.37 ± 0.07337
180
160
140
120
100
80
60

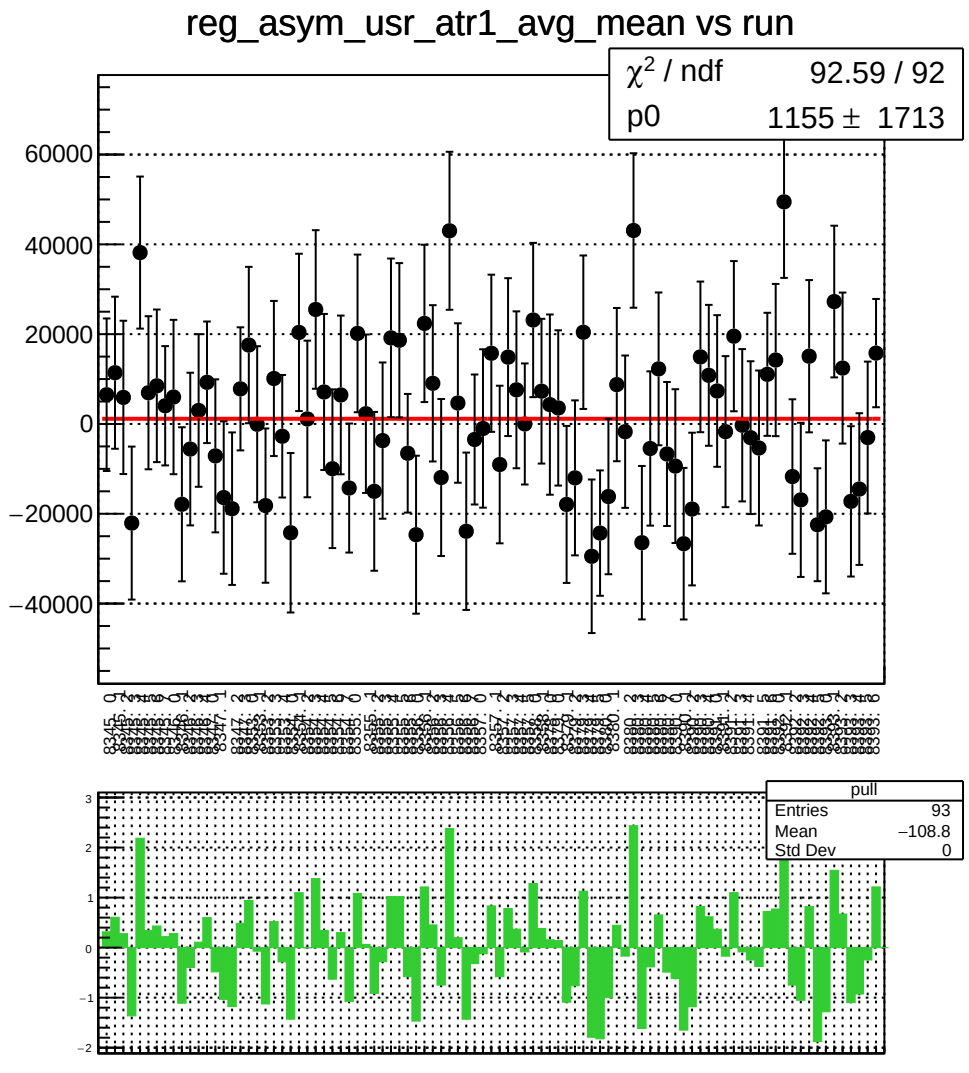

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.22 / 92
p0 −0.15 ± 0.1038
pull
Entries 93
Mean 109.2
Std Dev 0
pull1D
Entries 93
Mean −0.0364
Std Dev 0.9897

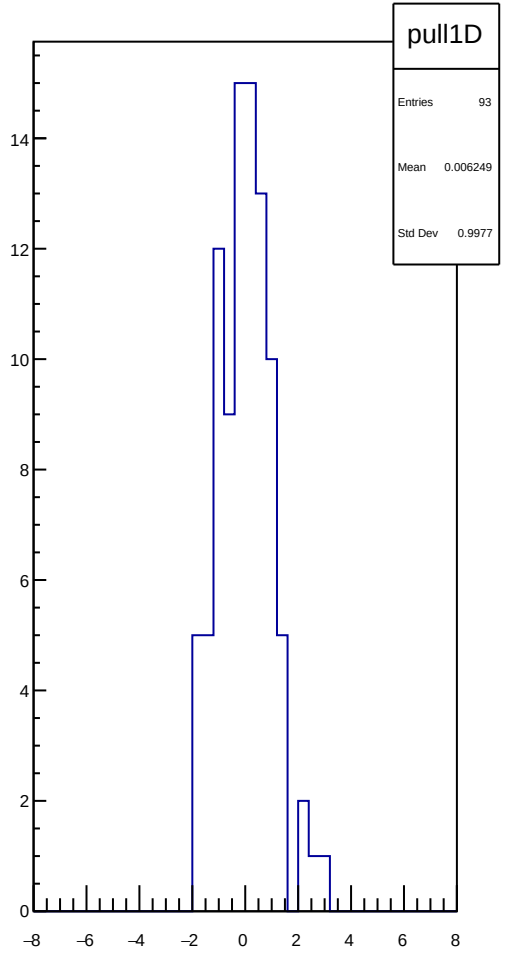

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.783e+04 / 92
p0 97.37 ± 0.07337
180
160
140
120
100
80
60

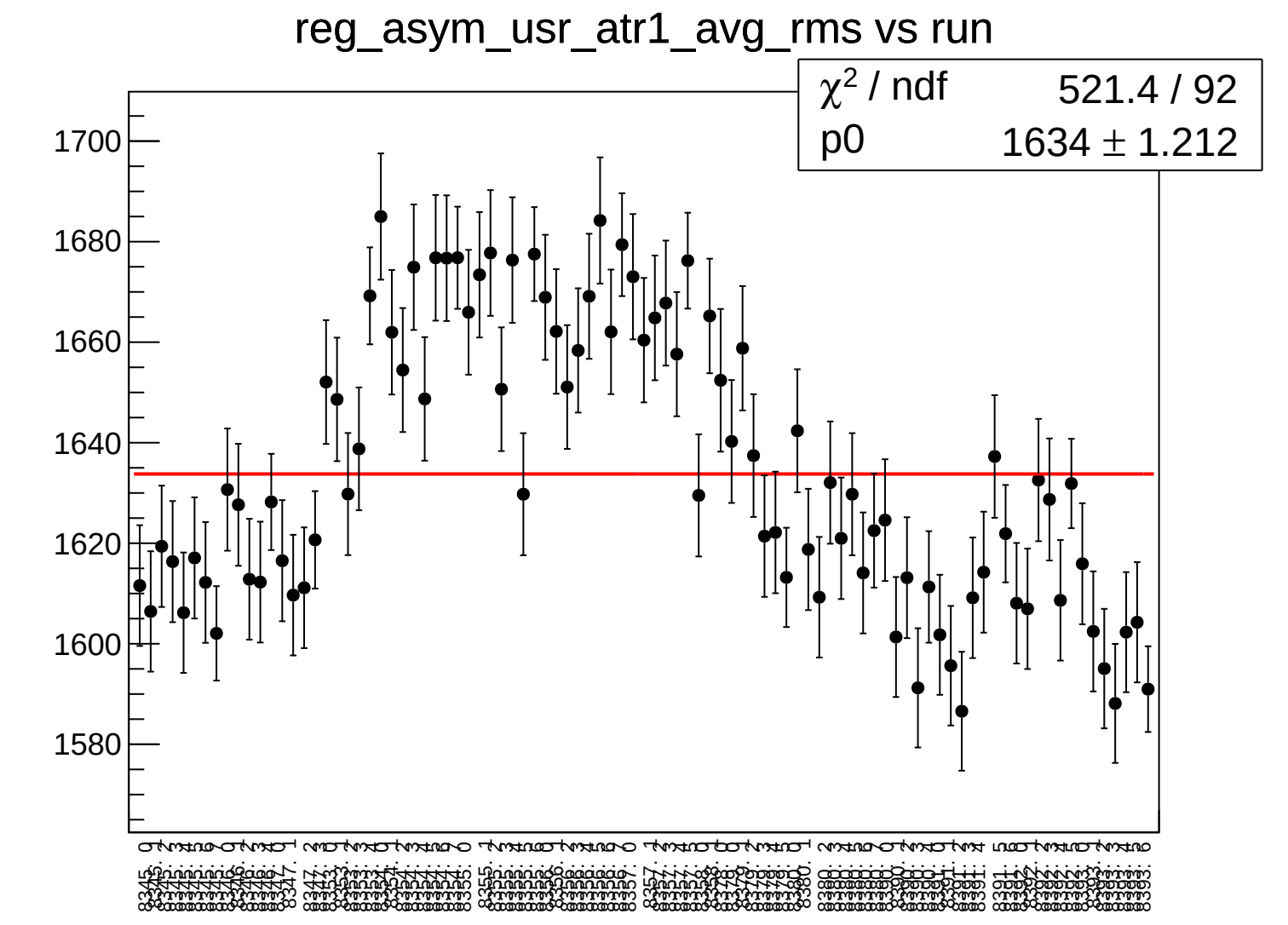

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 101.4 / 92
p0 −3.698e−13 ± 3.172e−13
pull
Entries 93
Mean 4.83
Std Dev 0

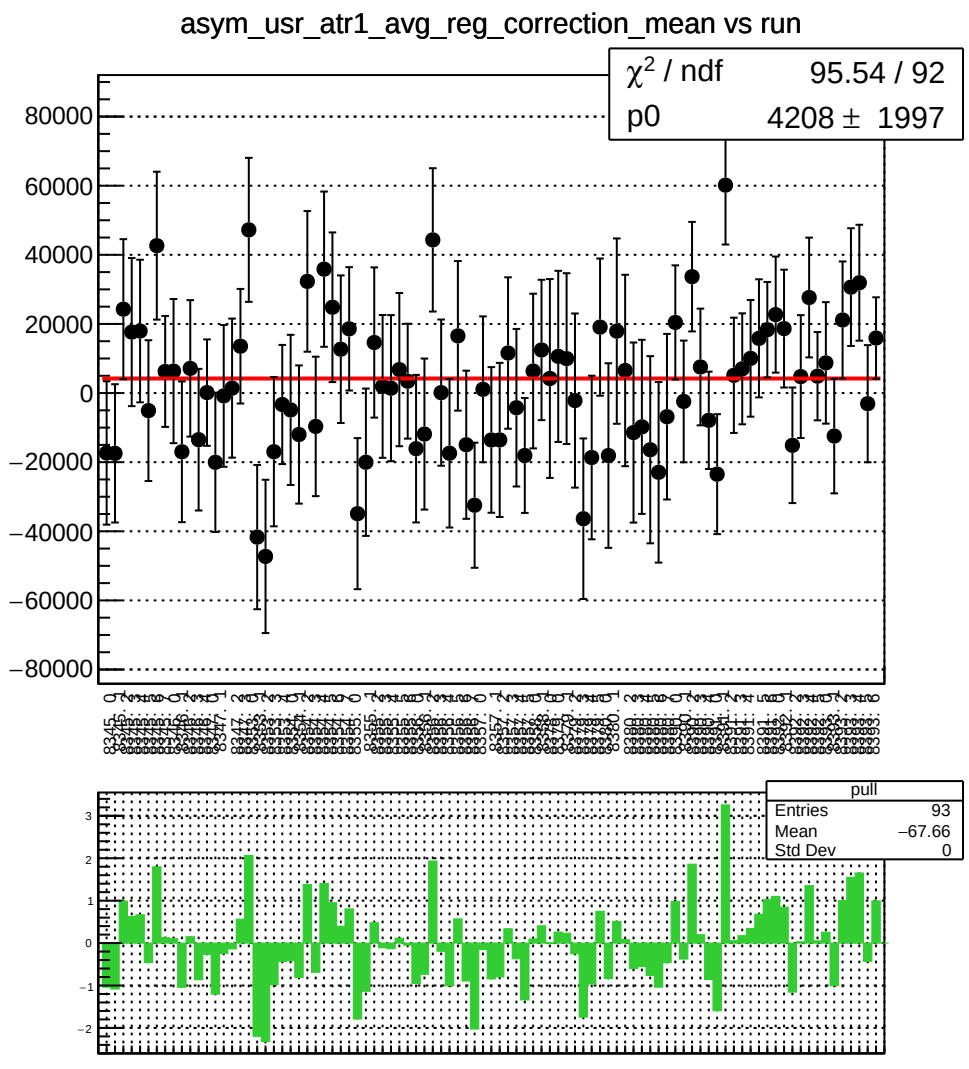

pull1D
Entries 93
Mean −0.01549
Std Dev 1.044

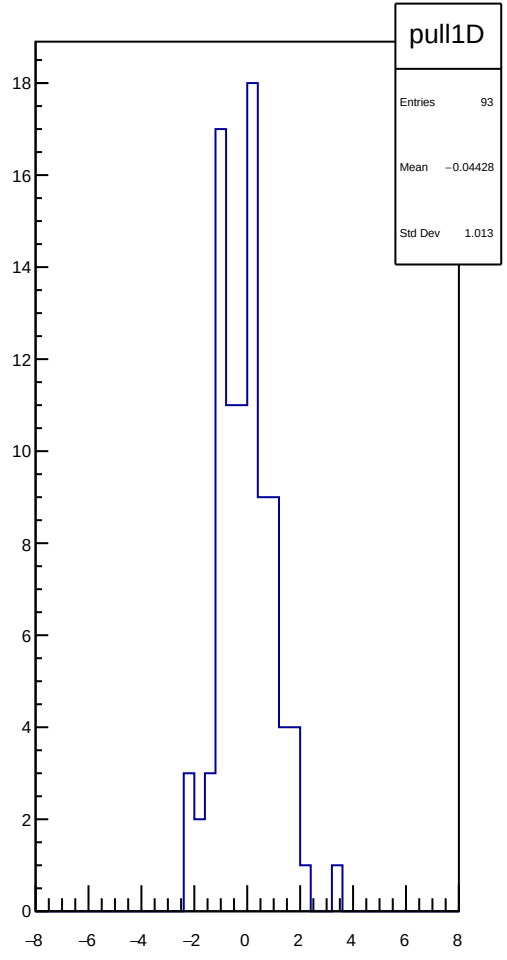

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.645e+05 / 92
p0 2.41e−10 ± 2.243e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

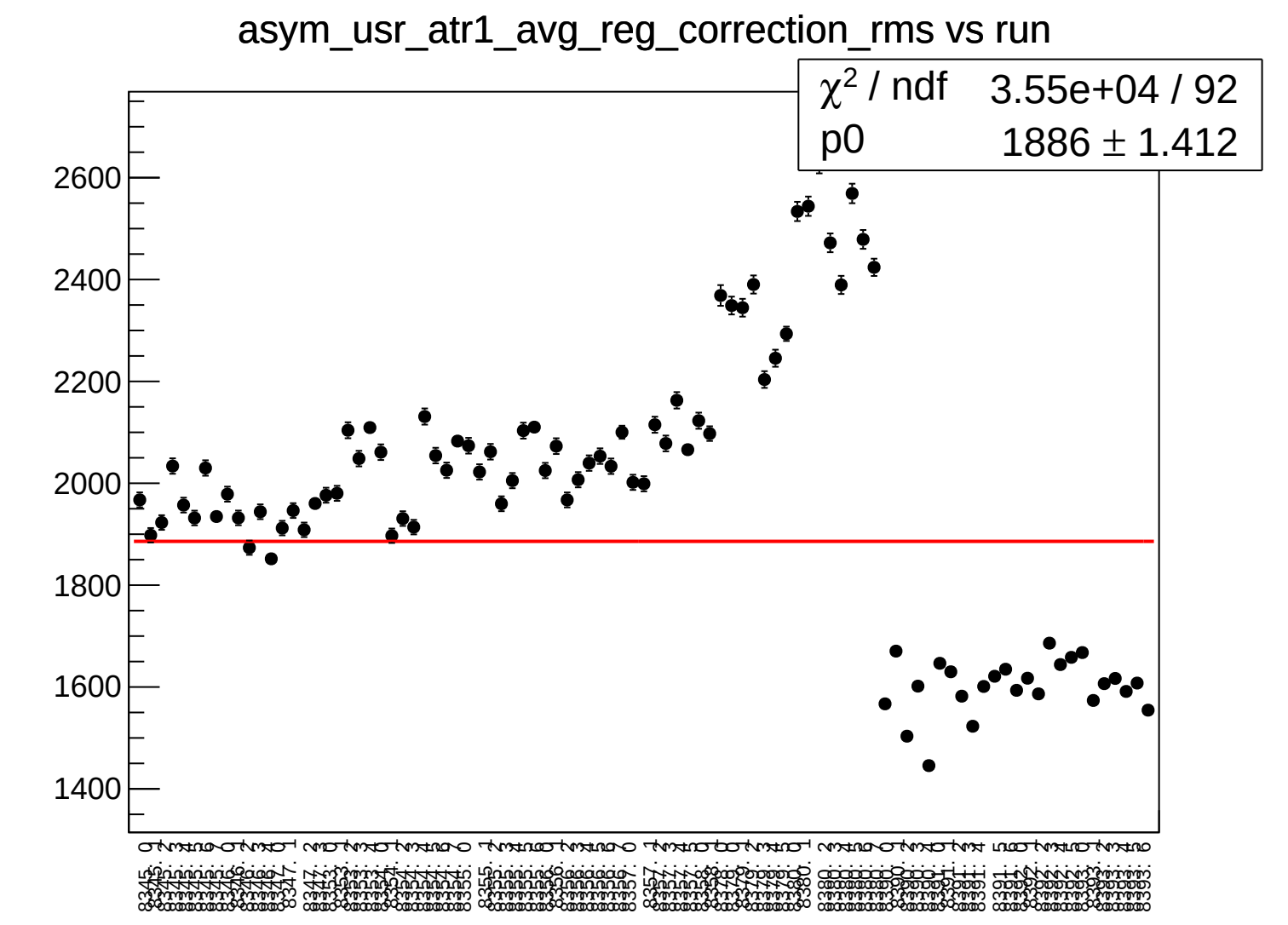

reg_asym_usr_atr1_avg_mean vs run
χ² / ndf 92.59 / 92
p0 1155 ± 1713
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −108.8
Std Dev 0
3
2
1
0
−1
−2

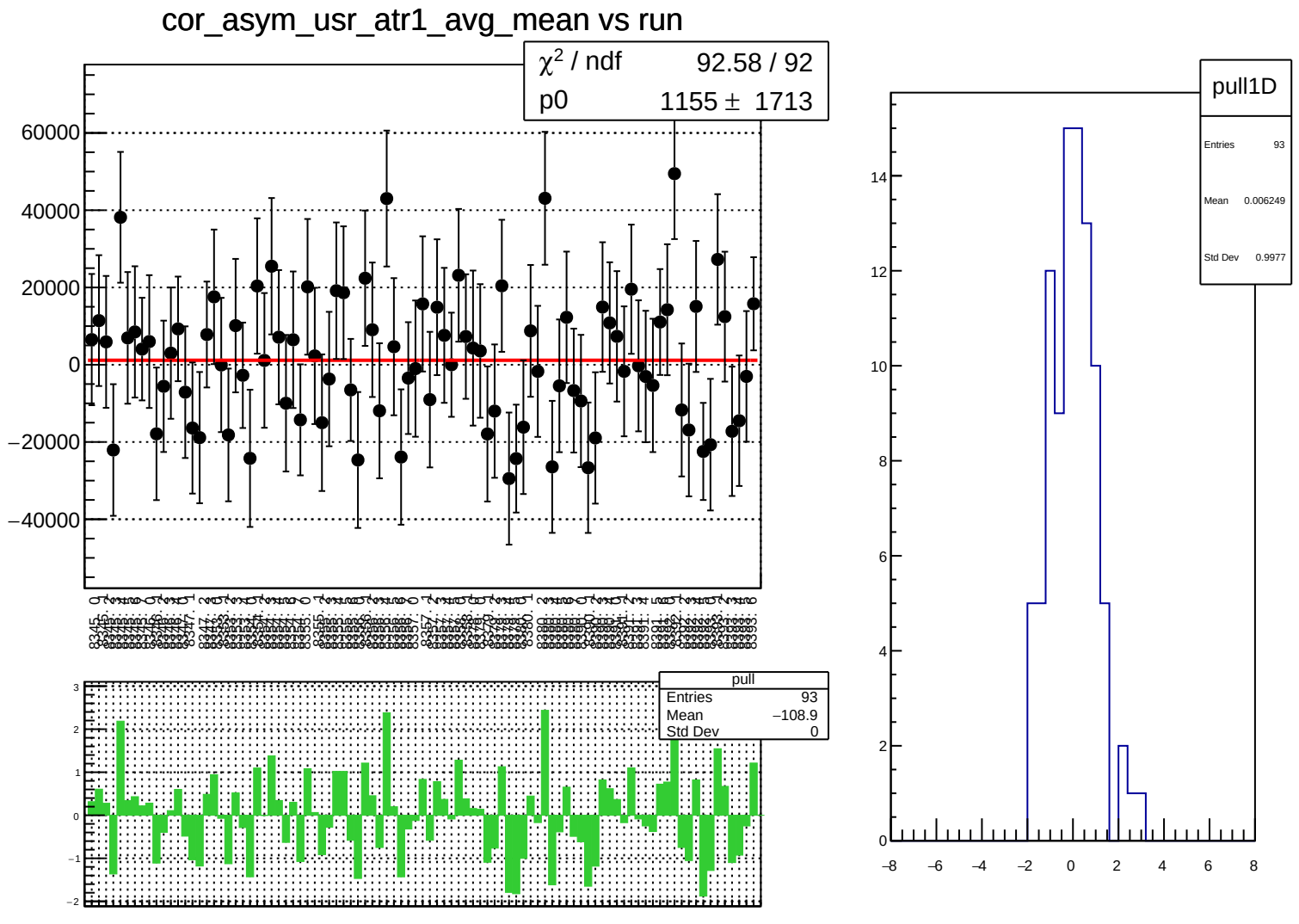

pull1D
Entries 93
Mean 0.006249
Std Dev 0.9977
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

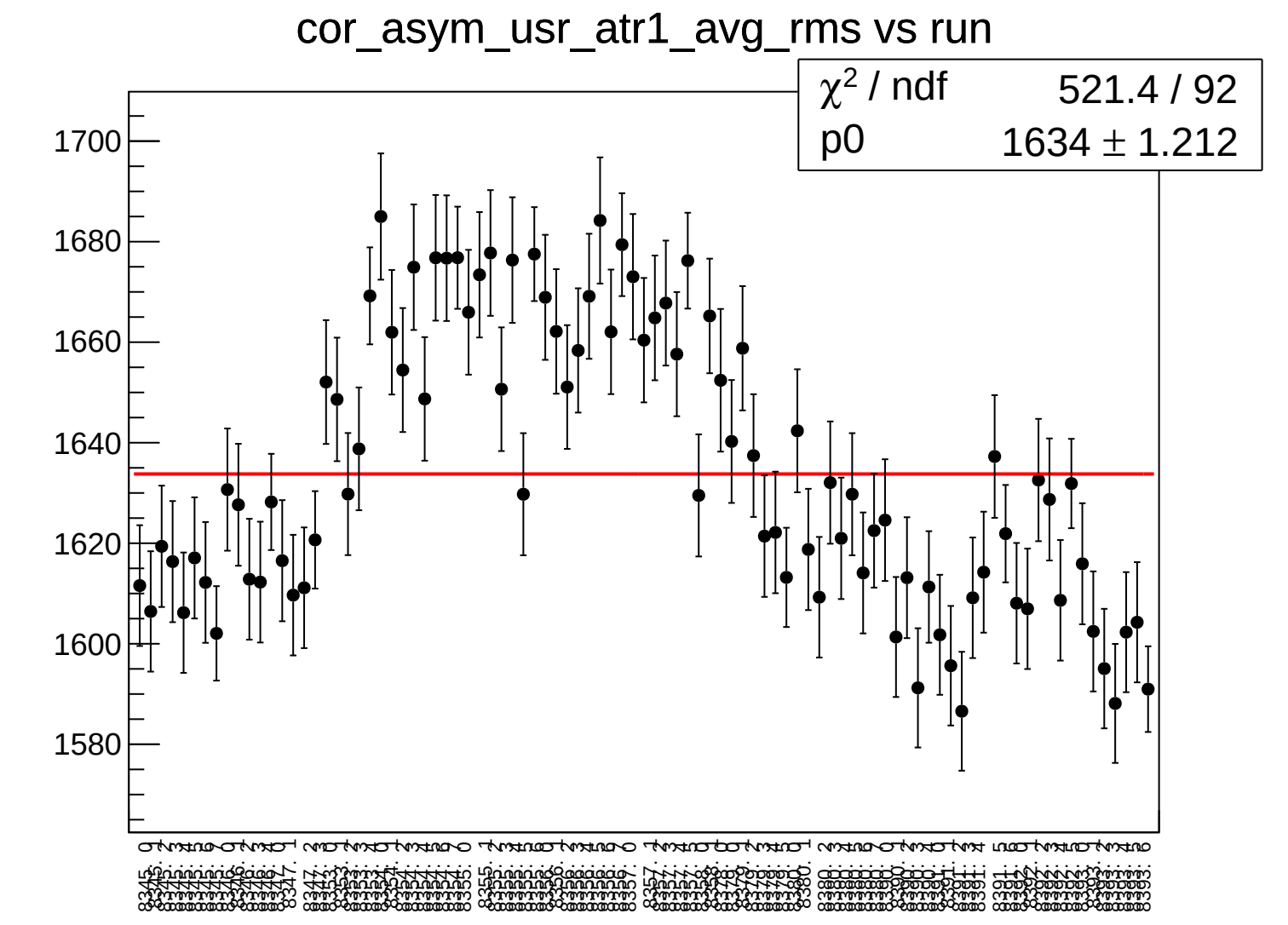

reg_asym_usr_atr1_avg_rms vs run
χ² / ndf 521.4 / 92
p0 1634 ± 1.212
1700
1680
1660
1640
1620
1600
1580

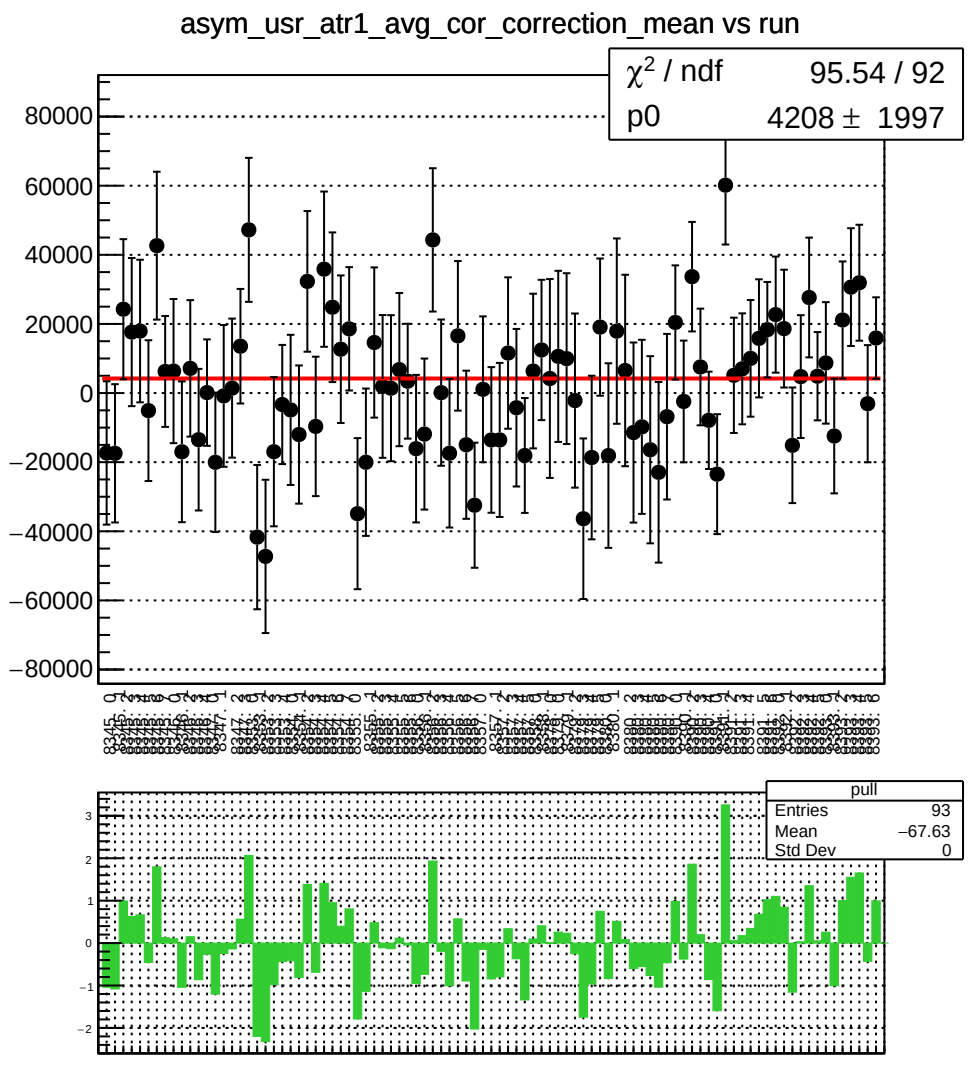

asym_usr_atr1_avg_reg_correction_mean vs run
χ² / ndf 95.54 / 92
p0 4208 ± 1997
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean −67.66
Std Dev 0
3
2
1
0
−1
−2

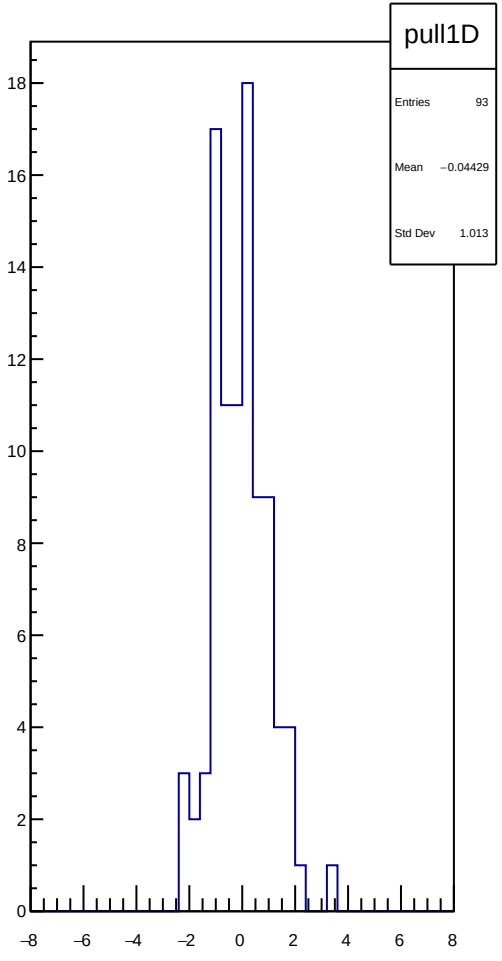

pull1D
Entries 93
Mean −0.04428
Std Dev 1.013
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

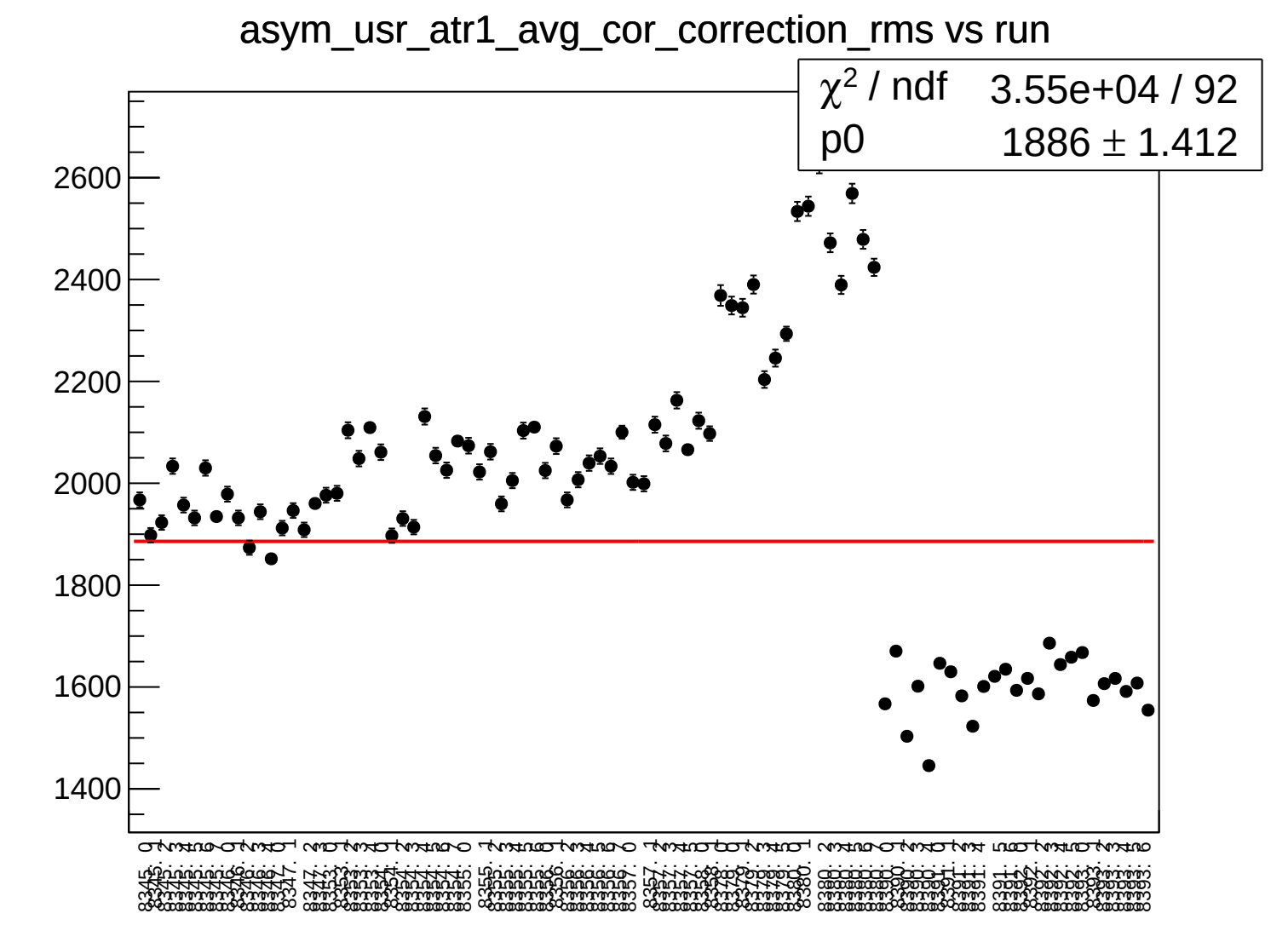

asym_usr_atr1_avg_reg_correction_rms vs run
χ² / ndf 3.55e+04 / 92
p0 1886 ± 1.412
2600
2400
2200
2000
1800
1600
1400

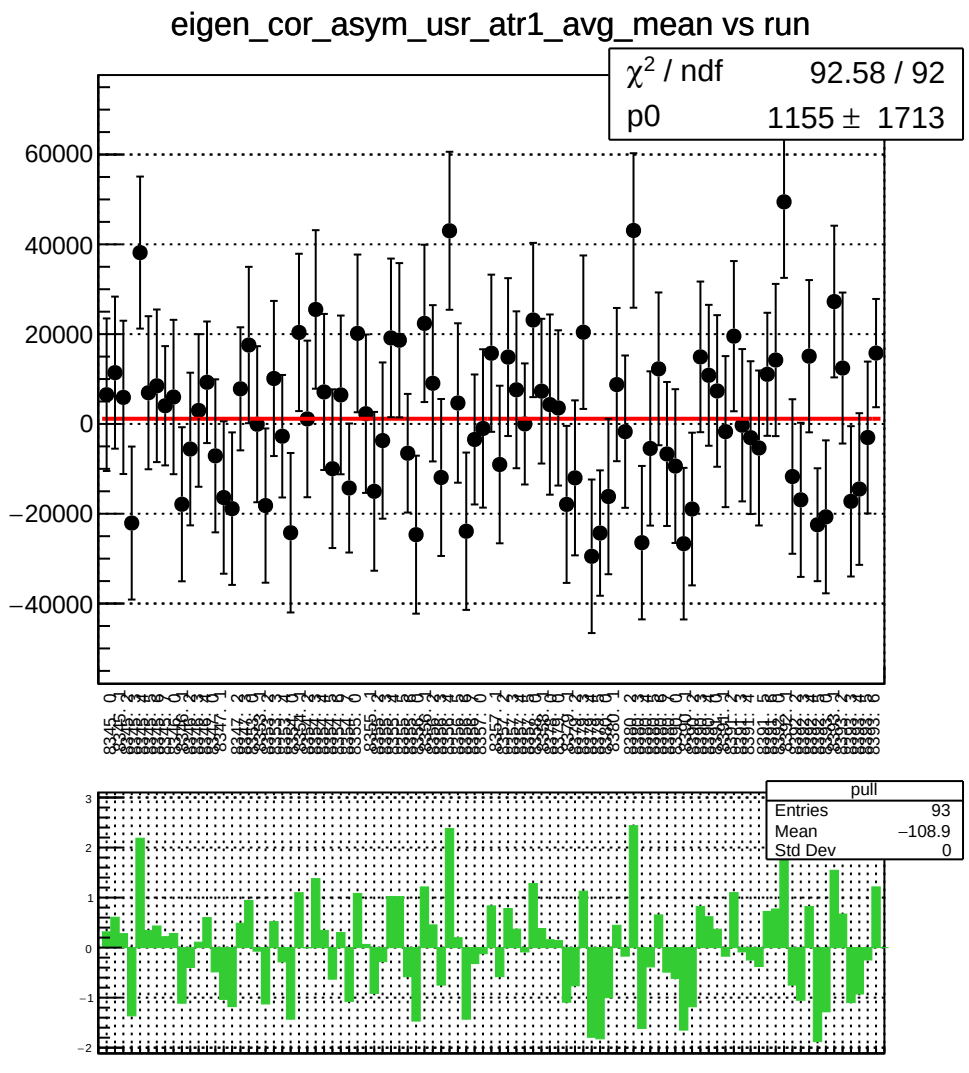

cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 92.58 / 92
p0 1155 ± 1713
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −108.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.006249
Std Dev 0.9977
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

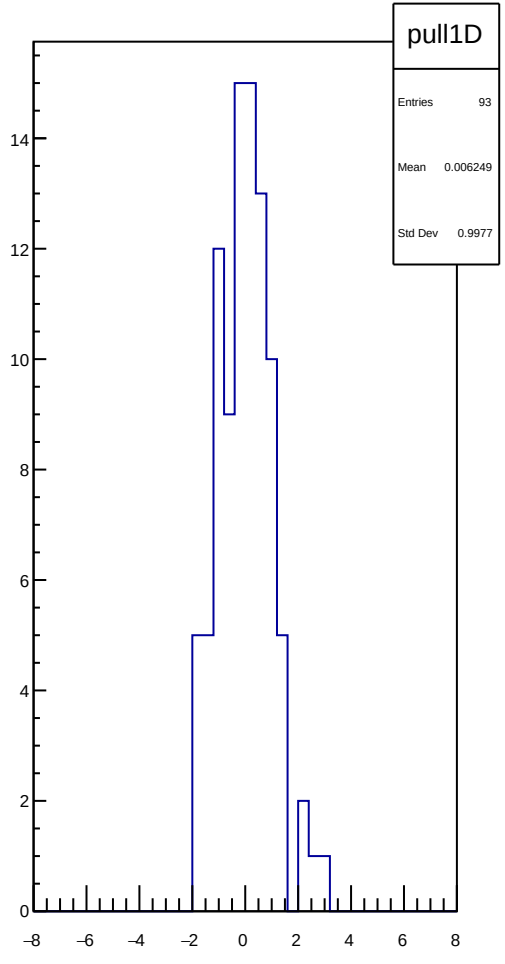

cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 521.4 / 92
p0 1634 ± 1.212
1700
1680
1660
1640
1620
1600
1580

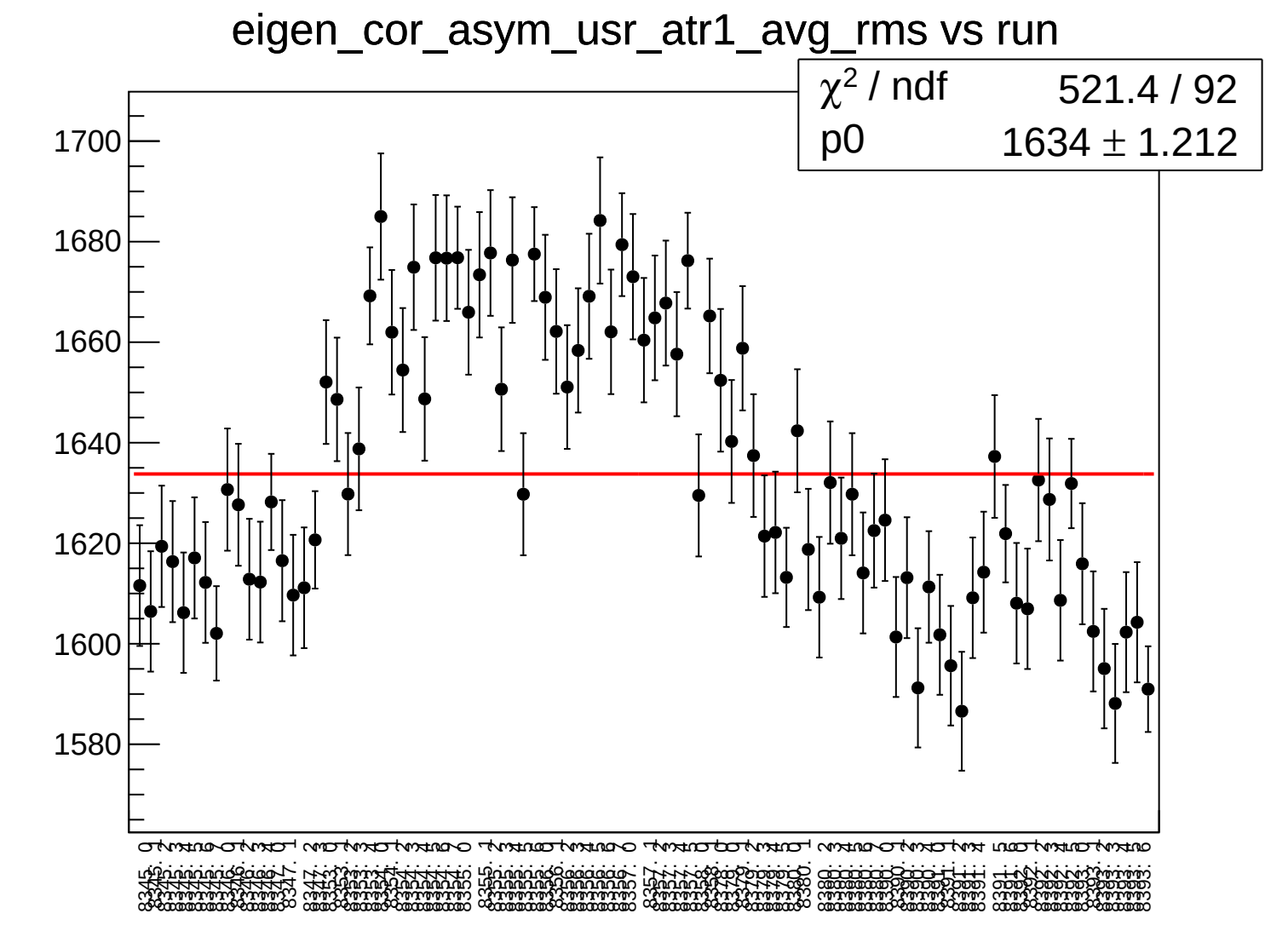

asym_usr_atr1_avg_cor_correction_mean vs run
χ² / ndf 95.54 / 92
p0 4208 ± 1997
pull
Entries 93
Mean −67.63
Std Dev 0

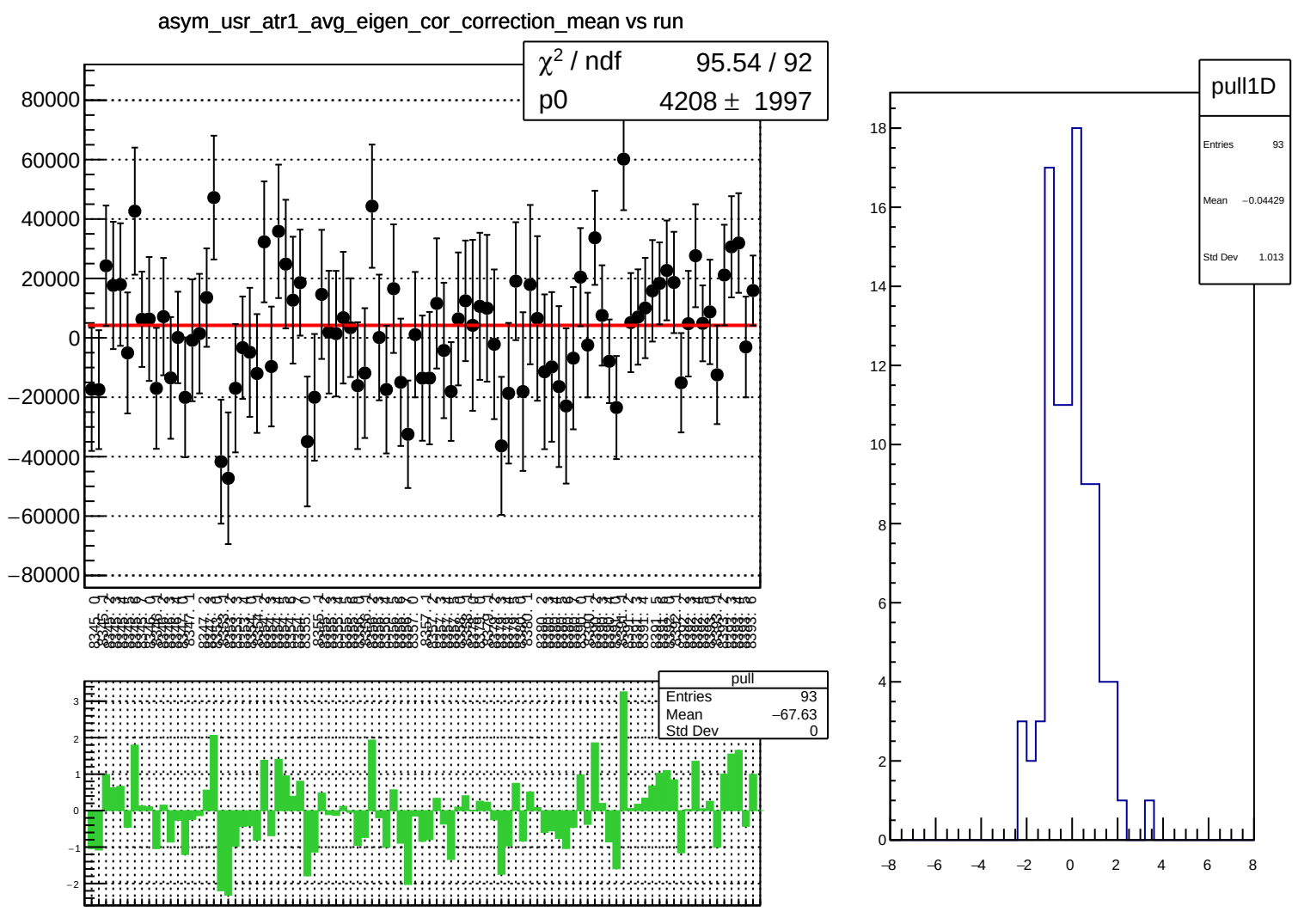

pull1D
Entries 93
Mean −0.04429
Std Dev 1.013

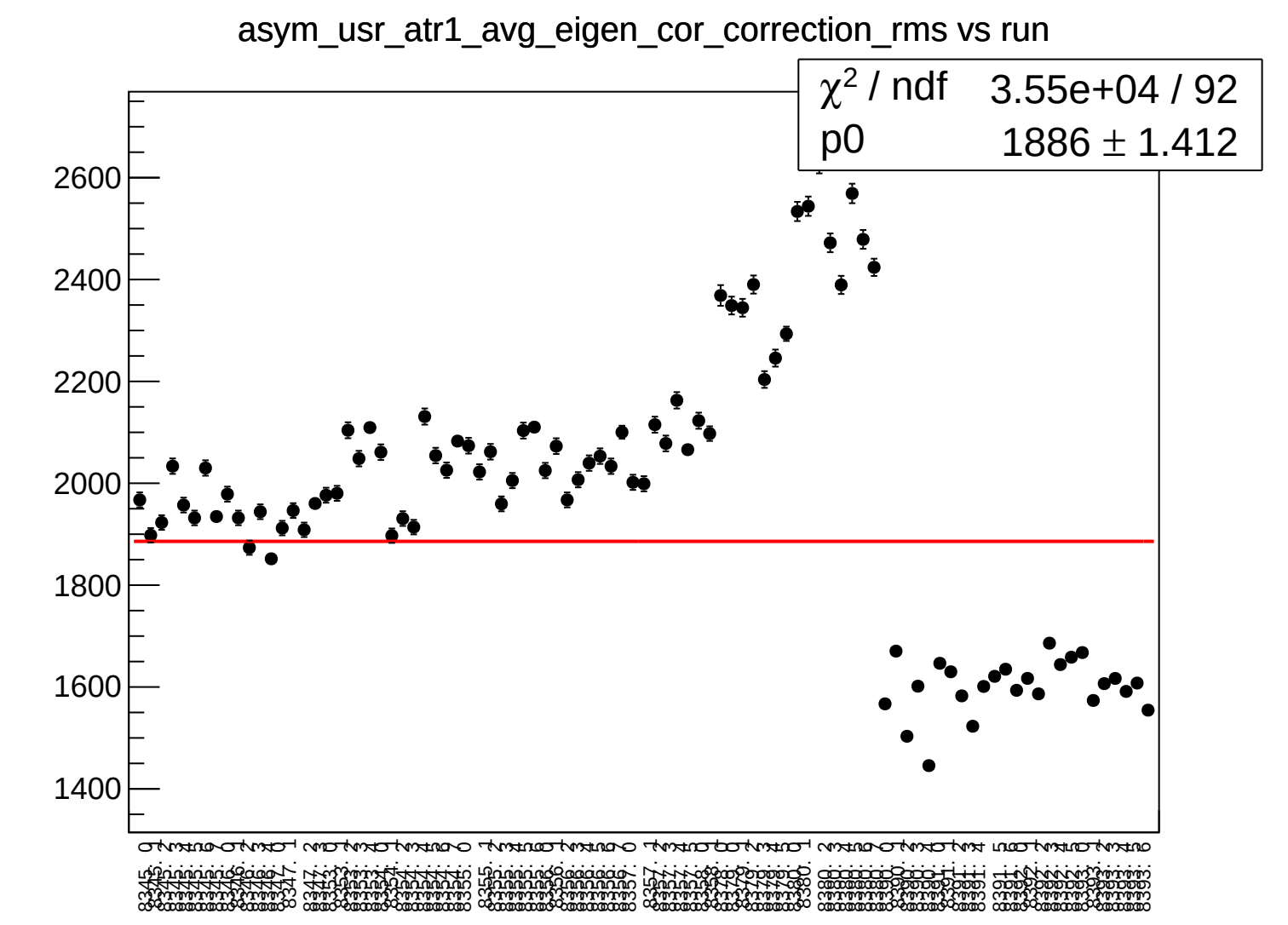

asym_usr_atr1_avg_cor_correction_rms vs run
χ² / ndf 3.55e+04 / 92
p0 1886 ± 1.412
2600
2400
2200
2000
1800
1600
1400

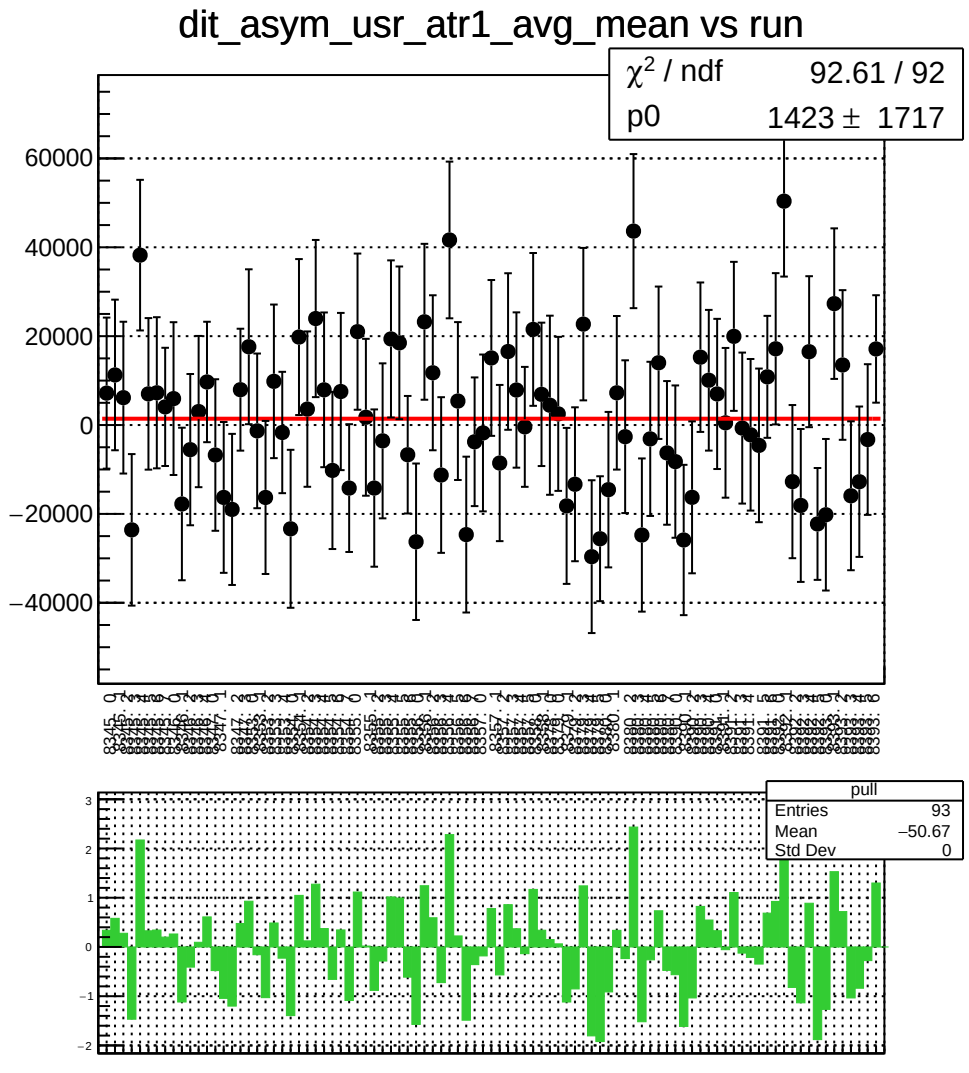

eigen_cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 92.58 / 92
p0 1155 ± 1713
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −108.9
Std Dev 0
3
2
1
0
−1
−2

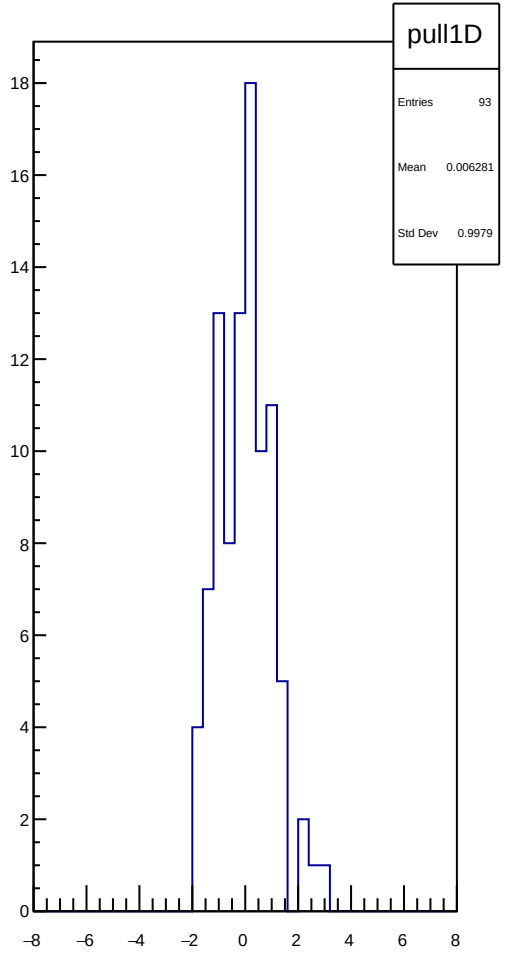

pull1D
Entries 93
Mean 0.006249
Std Dev 0.9977
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

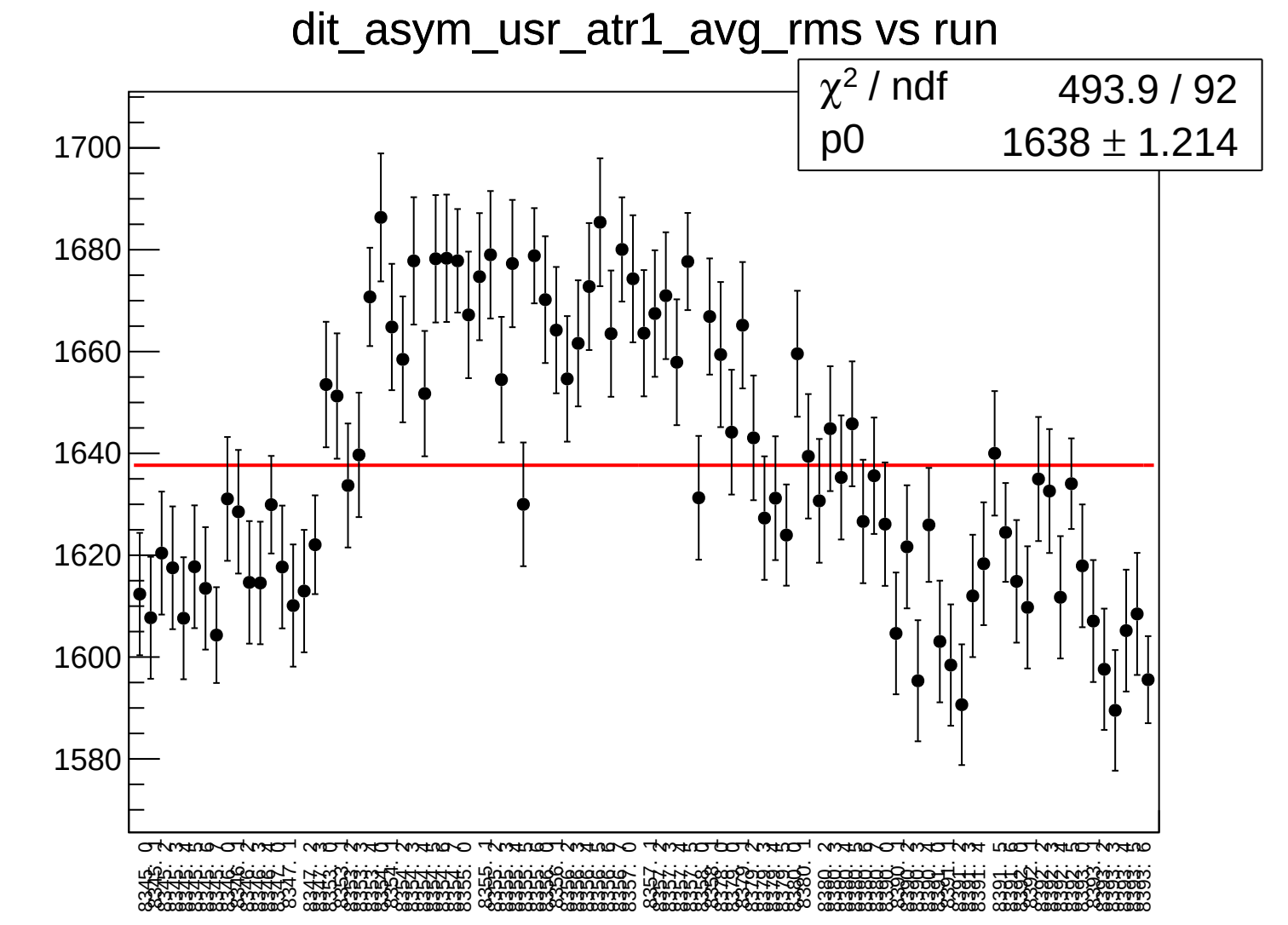

eigen_cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 521.4 / 92
p0 1634 ± 1.212
1700
1680
1660
1640
1620
1600
1580

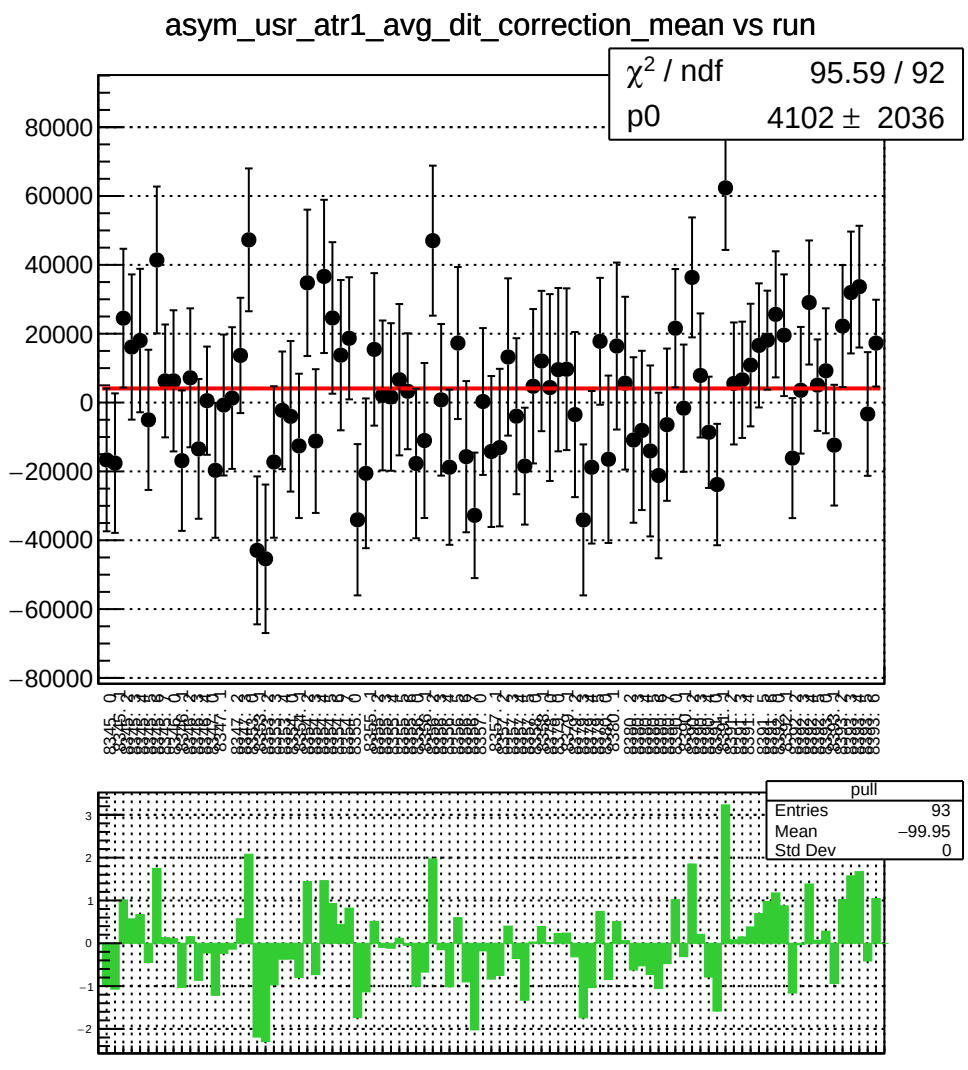

asym_usr_atr1_avg_eigen_cor_correction_mean vs run
χ² / ndf 95.54 / 92
p0 4208 ± 1997
pull
Entries 93
Mean −67.63
Std Dev 0
pull1D
Entries 93
Mean −0.04429
Std Dev 1.013

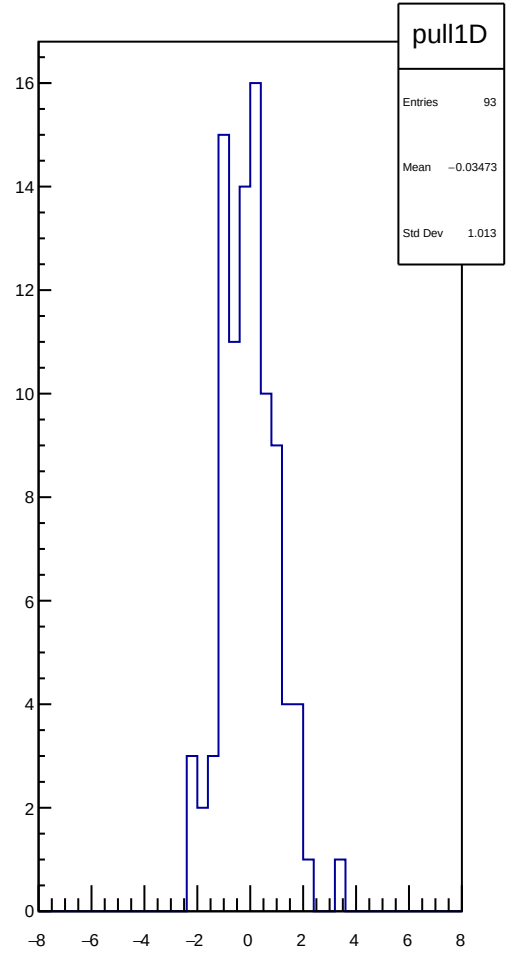

asym_usr_atr1_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.55e+04 / 92
p0 1886 ± 1.412
2600
2400
2200
2000
1800
1600
1400

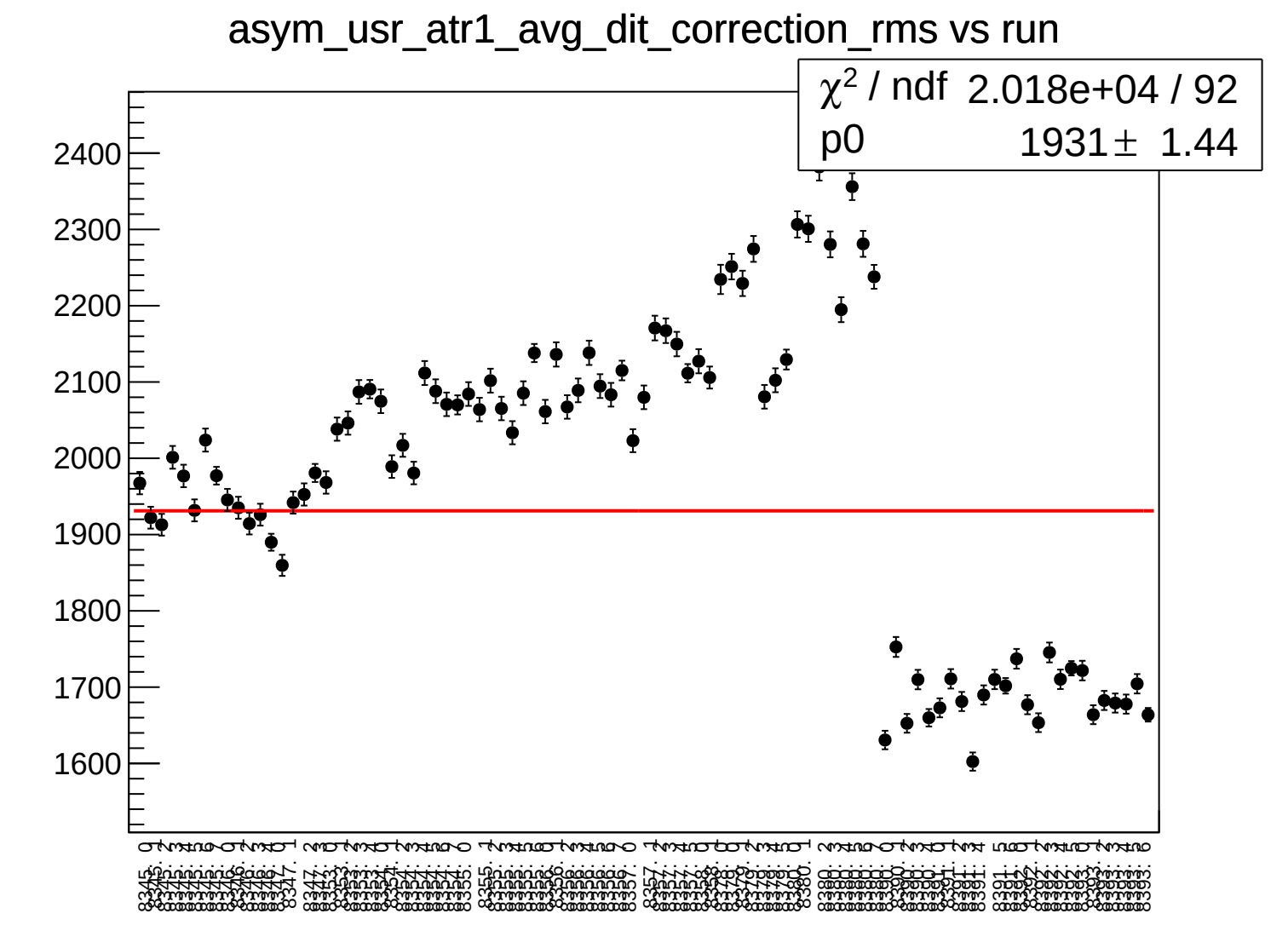

dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 92.61 / 92
p0 1423 ± 1717
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −50.67
Std Dev 0
3
2
1
0
−1
−2

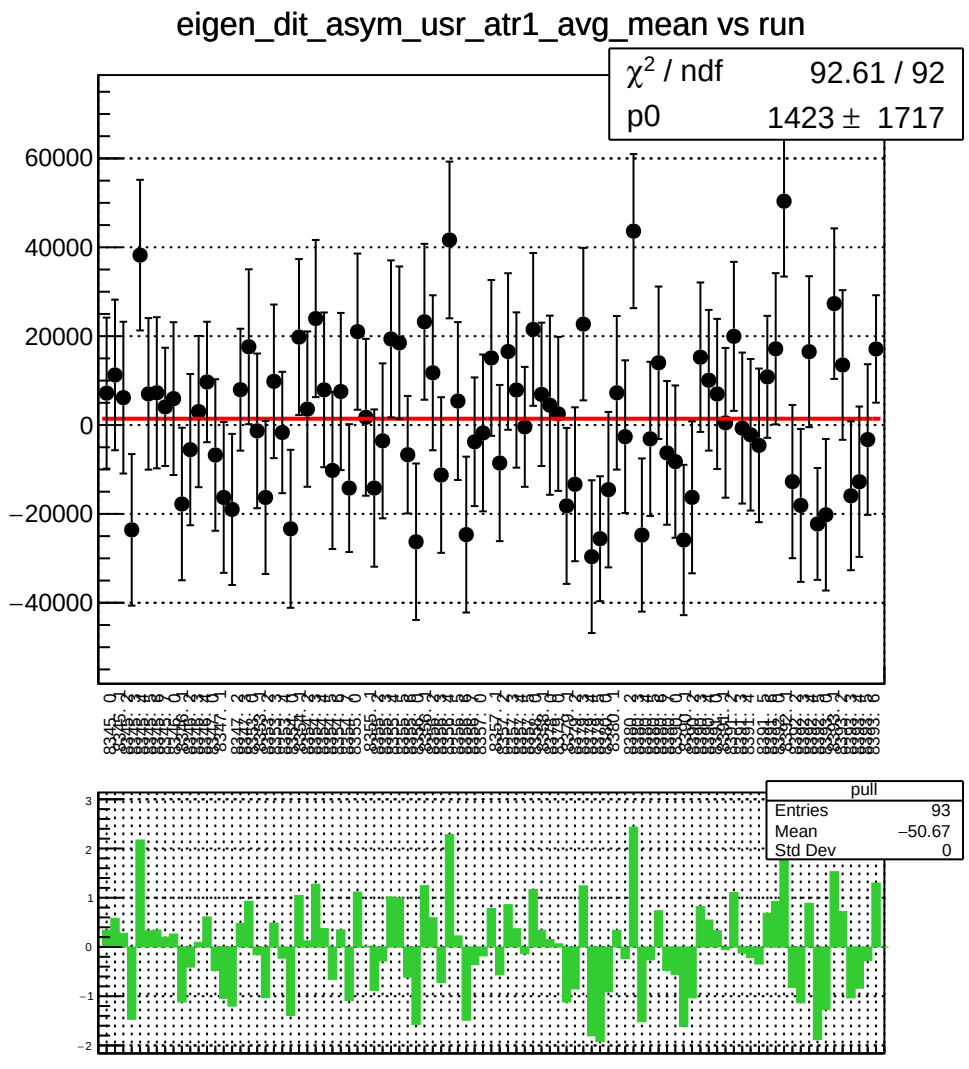

pull1D
Entries 93
Mean 0.006281
Std Dev 0.9979
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

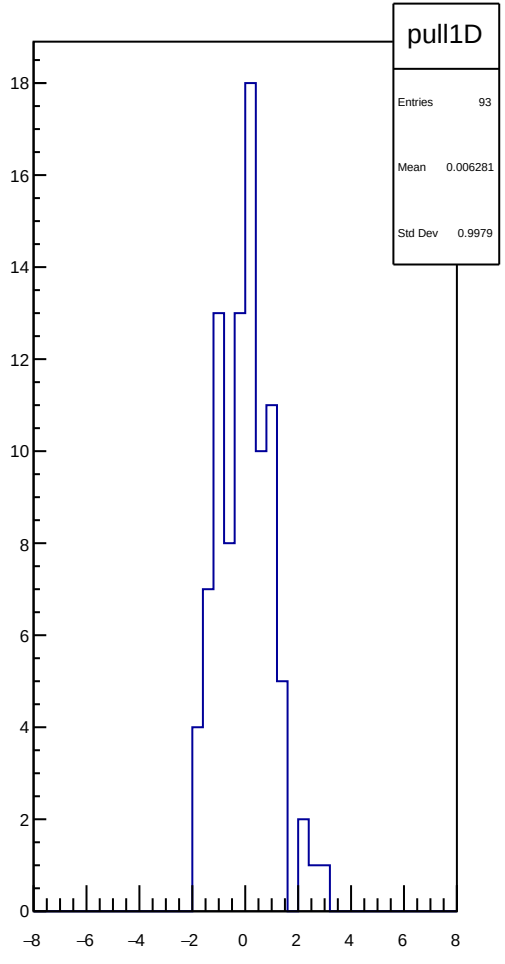

dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 493.9 / 92
p0 1638 ± 1.214
1700
1680
1660
1640
1620
1600
1580

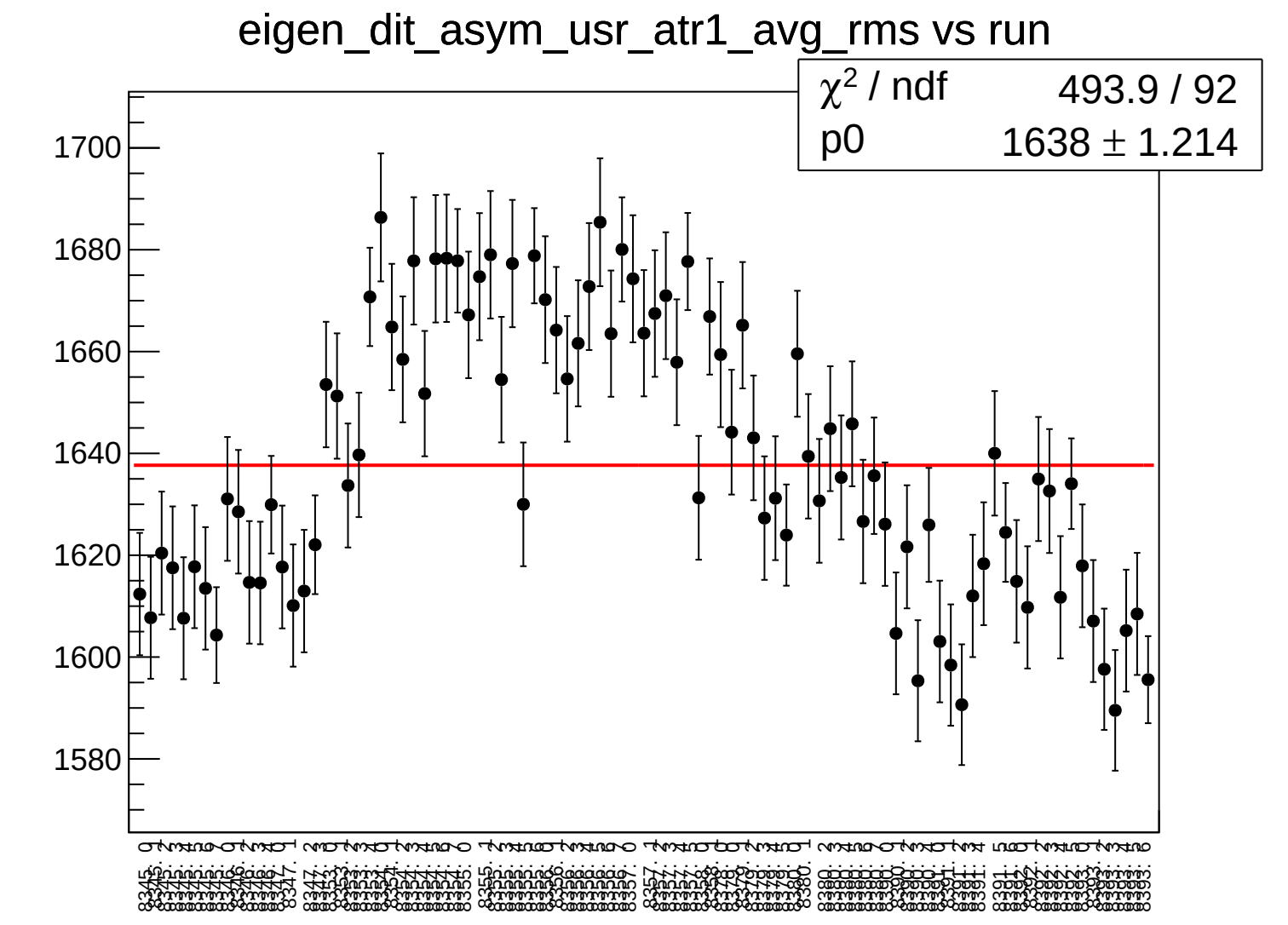

asym_usr_atr1_avg_dit_correction_mean vs run
χ² / ndf 95.59 / 92
p0 4102 ± 2036
pull
Entries 93
Mean −99.95
Std Dev 0

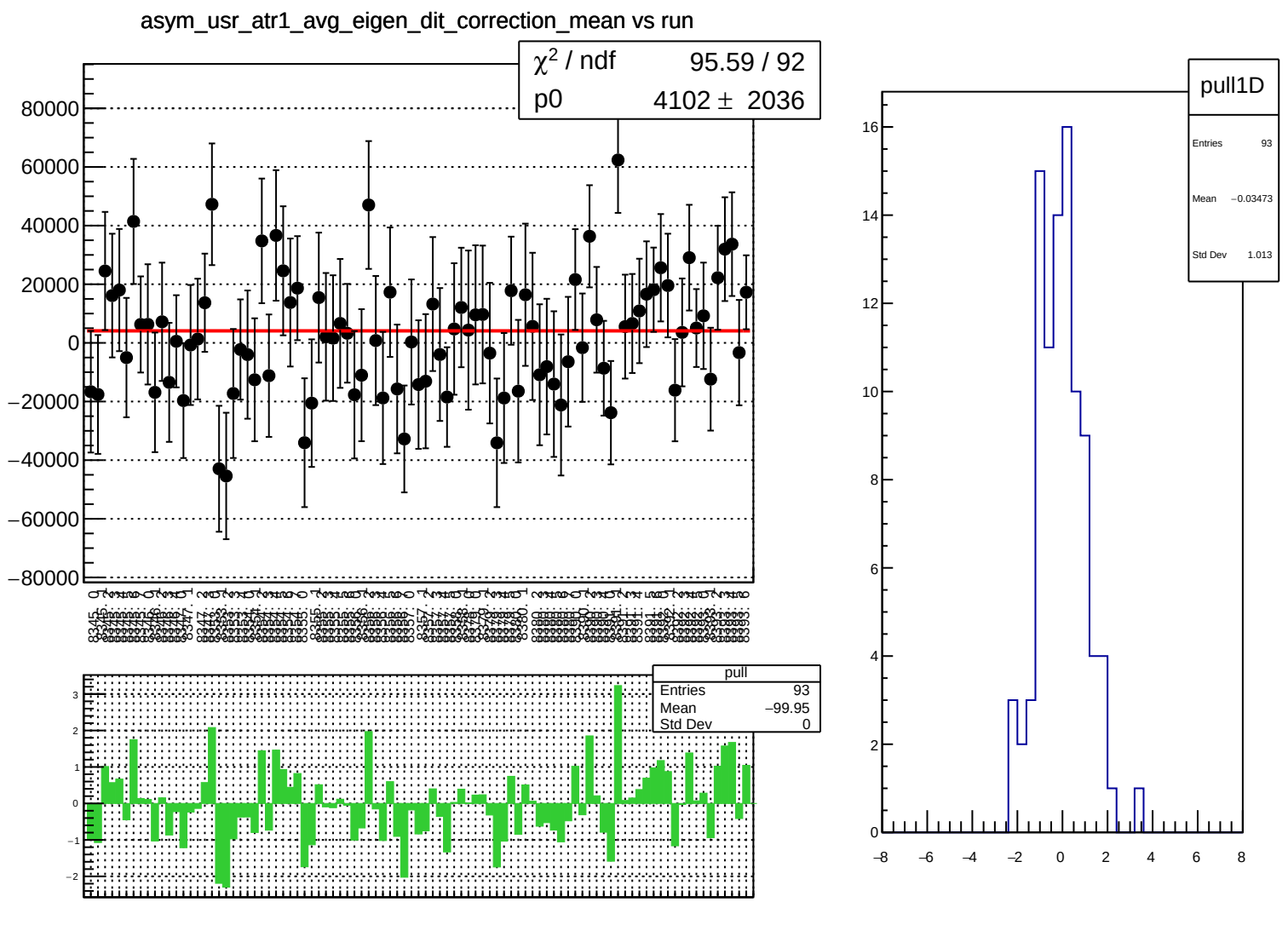

pull1D
Entries 93
Mean −0.03473
Std Dev 1.013

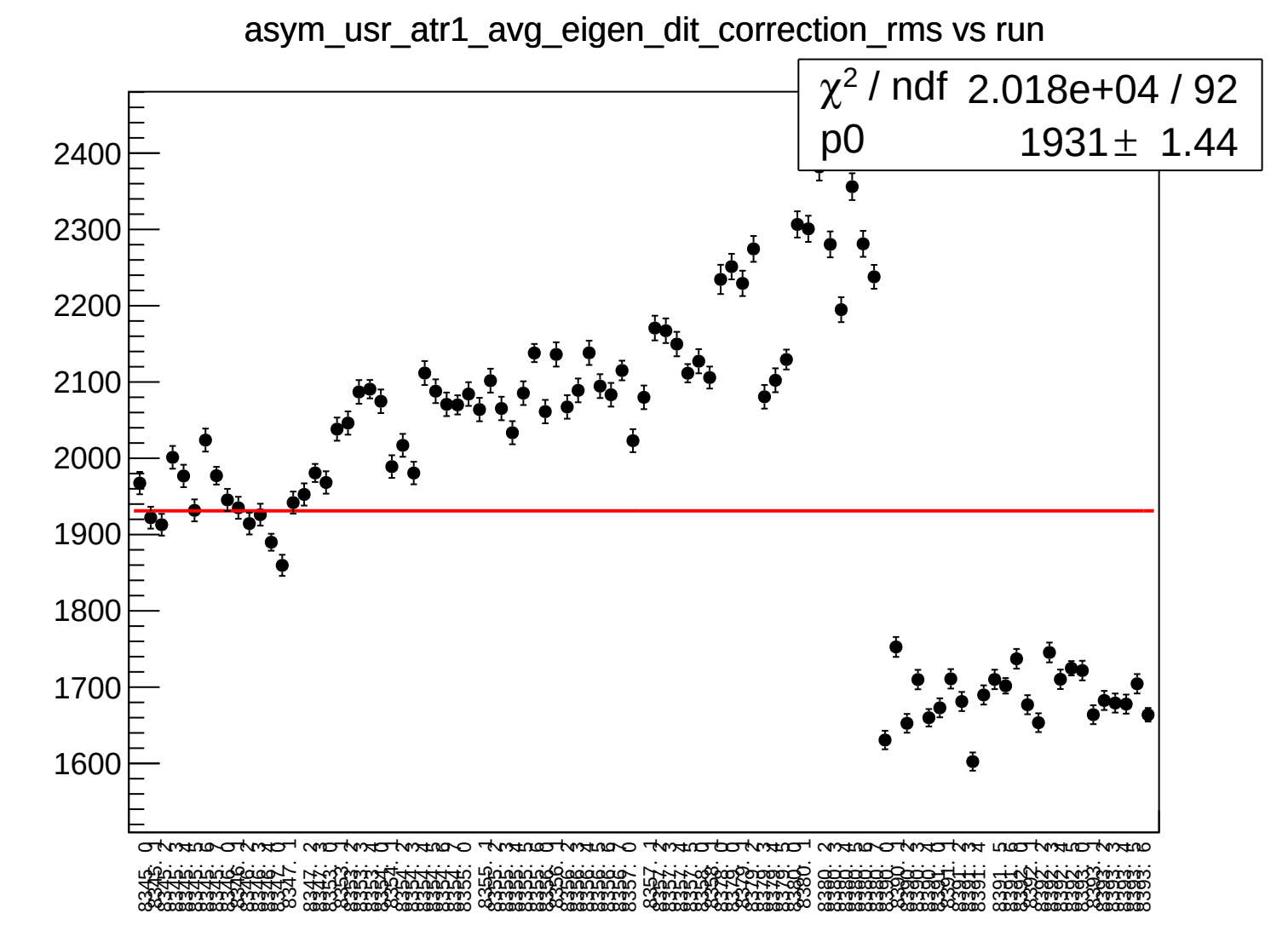

asym_usr_atr1_avg_dit_correction_rms vs run
χ² / ndf 2.018e+04 / 92
p0 1931 ± 1.44
2400
2300
2200
2100
2000
1900
1800
1700
1600

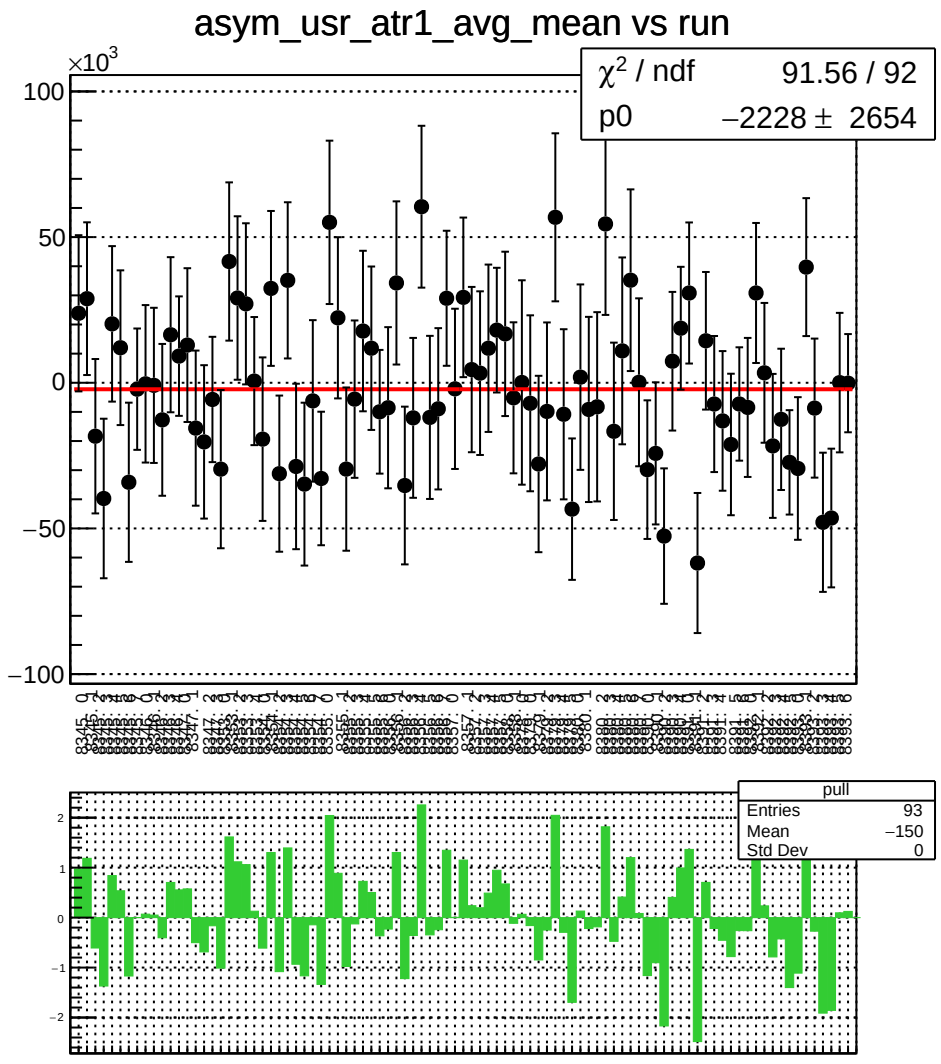

eigen_dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 92.61 / 92
p0 1423 ± 1717
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −50.67
Std Dev 0
3
2
1
0
−1
−2

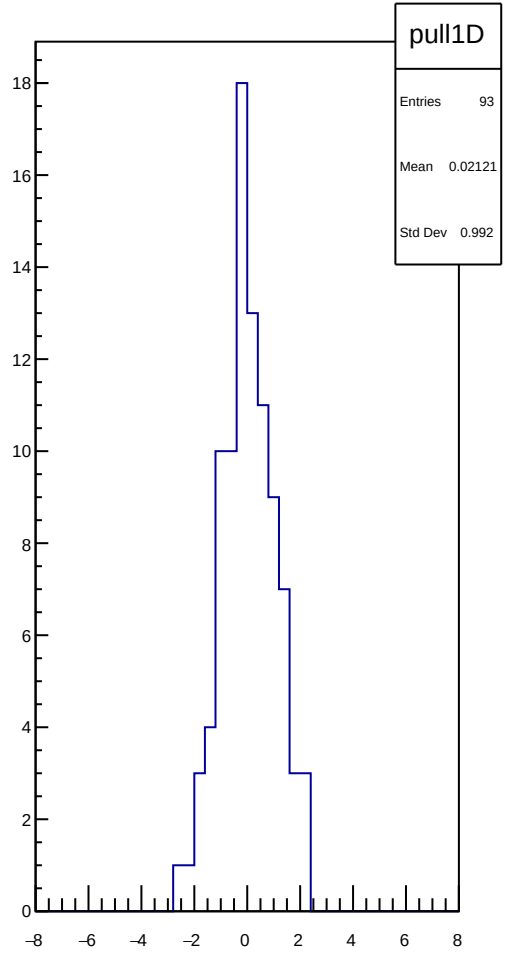

pull1D
Entries 93
Mean 0.006281
Std Dev 0.9979
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

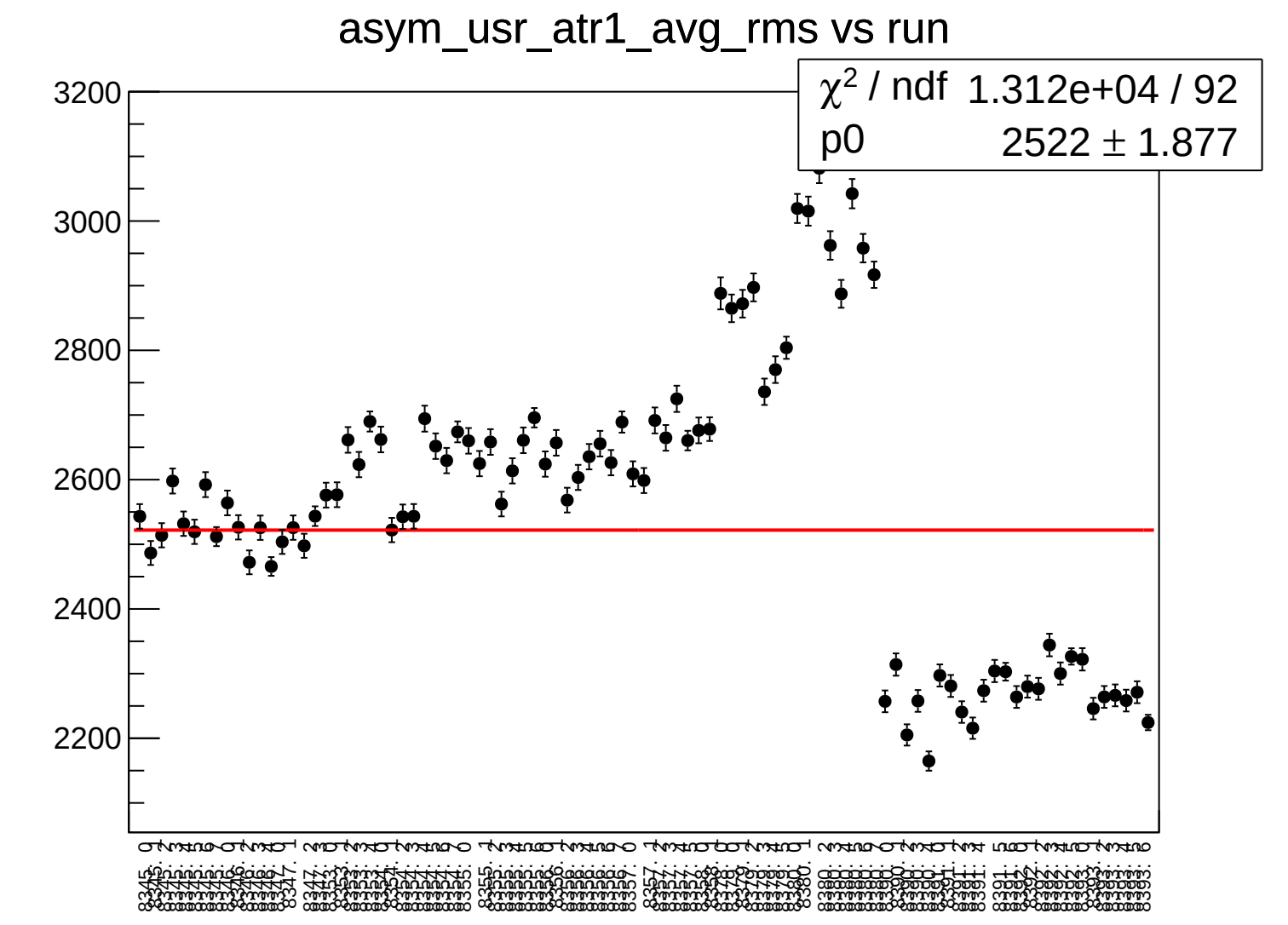

eigen_dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 493.9 / 92
p0 1638 ± 1.214
1700
1680
1660
1640
1620
1600
1580

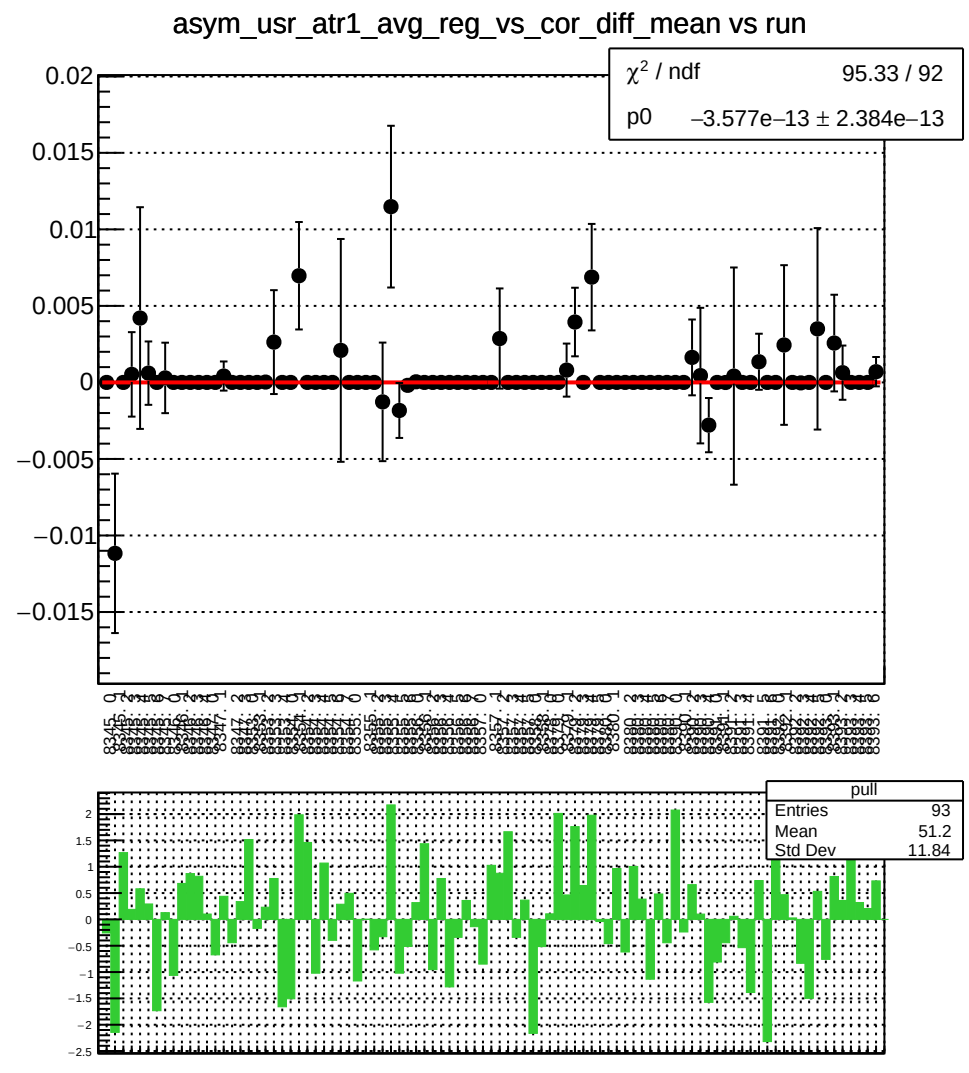

asym_usr_atr1_avg_eigen_dit_correction_mean vs run
χ² / ndf 95.59 / 92
p0 4102 ± 2036
pull
Entries 93
Mean −99.95
Std Dev 0
pull1D
Entries 93
Mean −0.03473
Std Dev 1.013

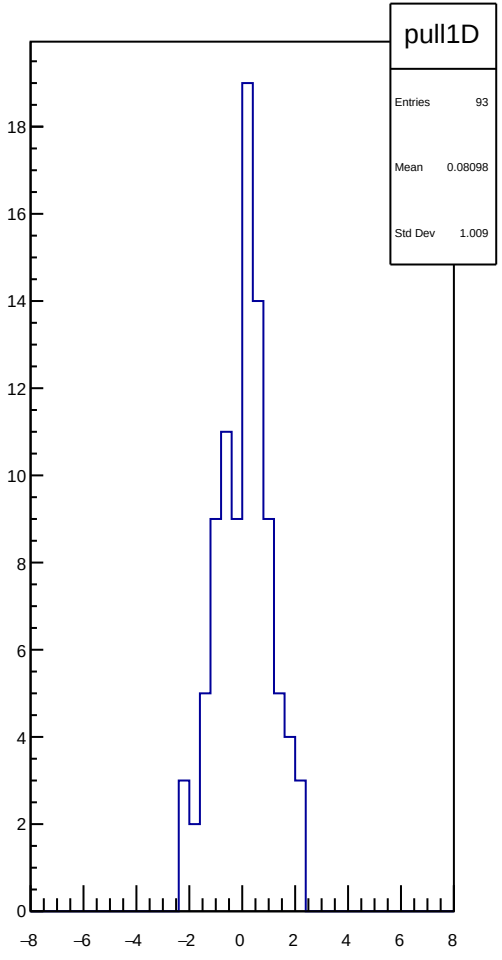

asym_usr_atr1_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.018e+04 / 92
p0 1931 ± 1.44
2400
2300
2200
2100
2000
1900
1800
1700
1600

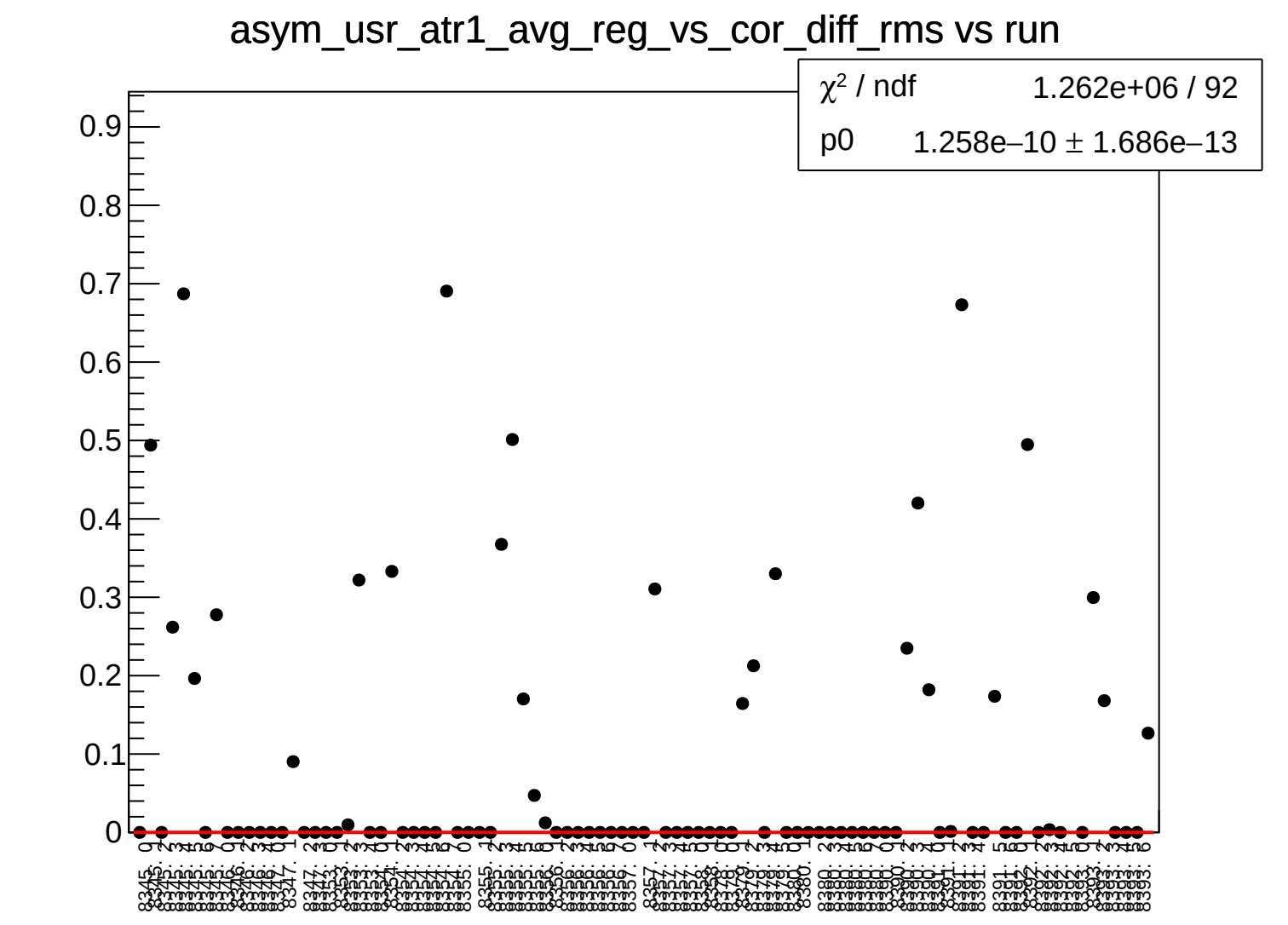

asym_usr_atr1_avg_mean vs run
×10^3
χ² / ndf 91.56 / 92
p0 −2228 ± 2654
100
50
0
−50
−100
pull
Entries 93
Mean −150
Std Dev 0
2
1
0
−1
−2

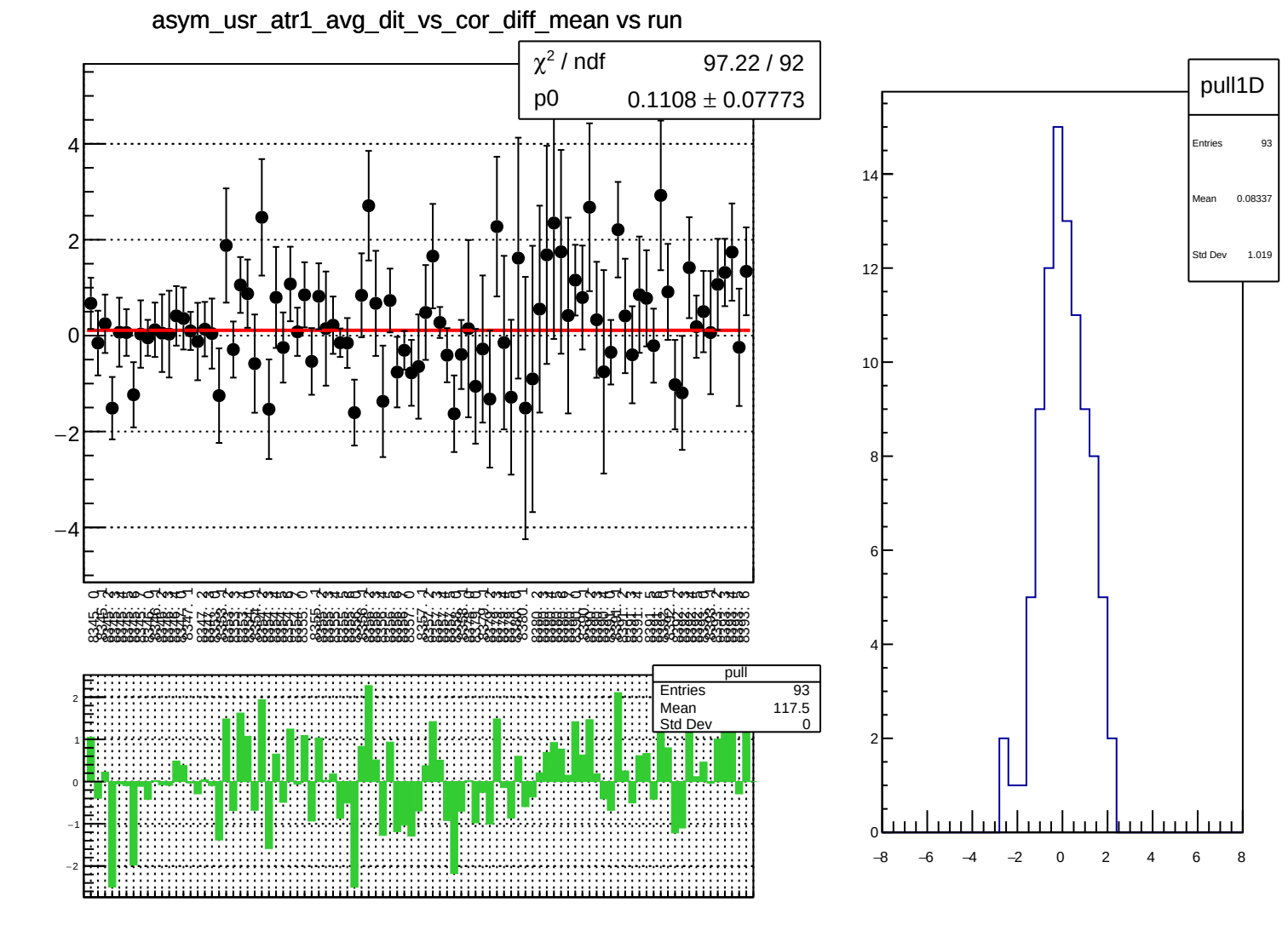

pull1D
Entries 93
Mean 0.02121
Std Dev 0.992
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

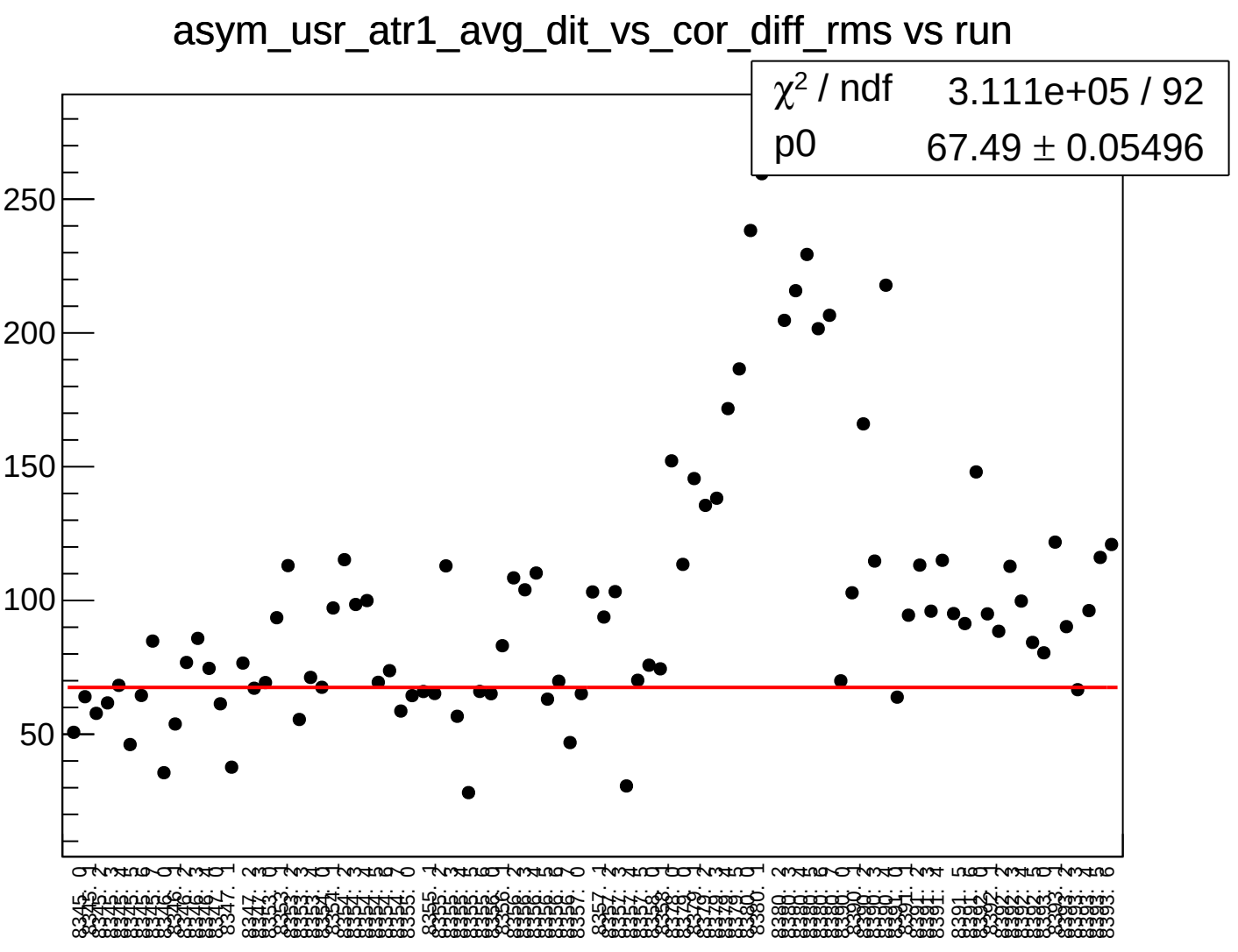

asym_usr_atr1_avg_rms vs run
χ² / ndf 1.312e+04 / 92
p0 2522 ± 1.877
3200
3000
2800
2600
2400
2200

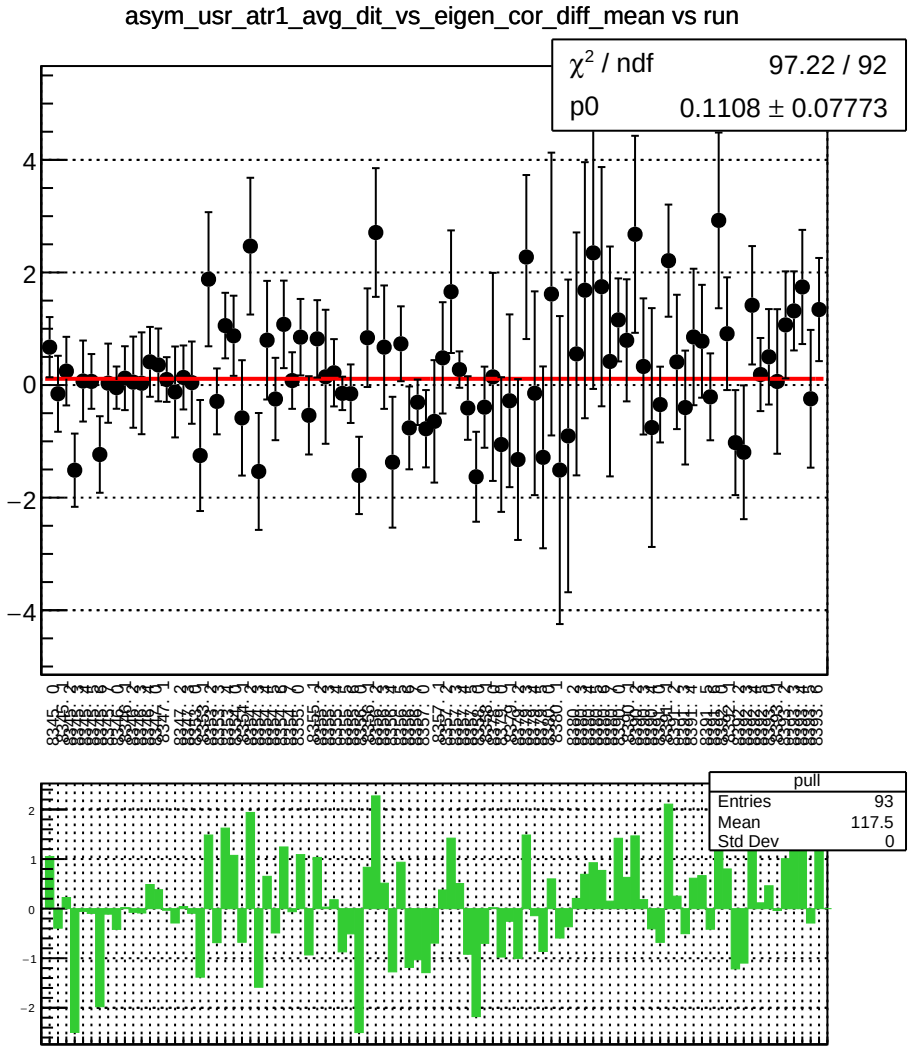

asym_usr_atr1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 95.33 / 92
p0 −3.577e−13 ± 2.384e−13
pull
Entries 93
Mean 51.2
Std Dev 11.84

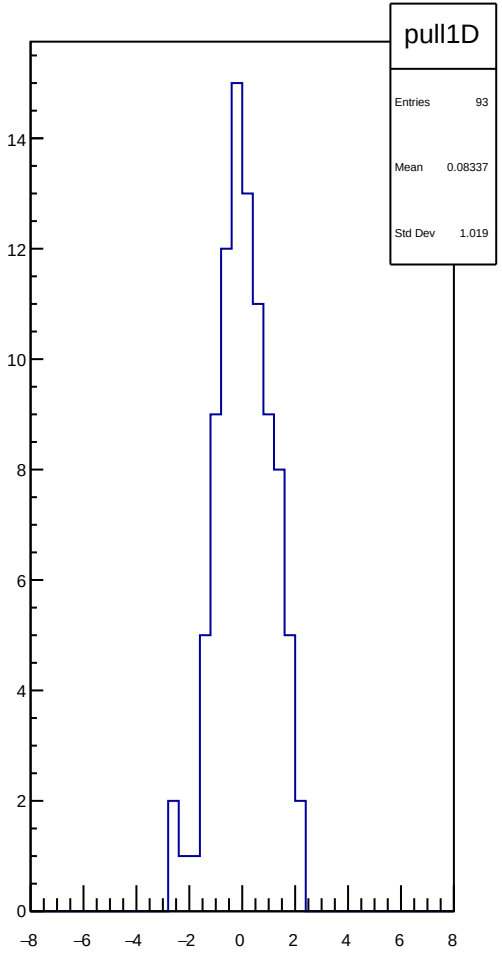

pull1D
Entries 93
Mean 0.08098
Std Dev 1.009

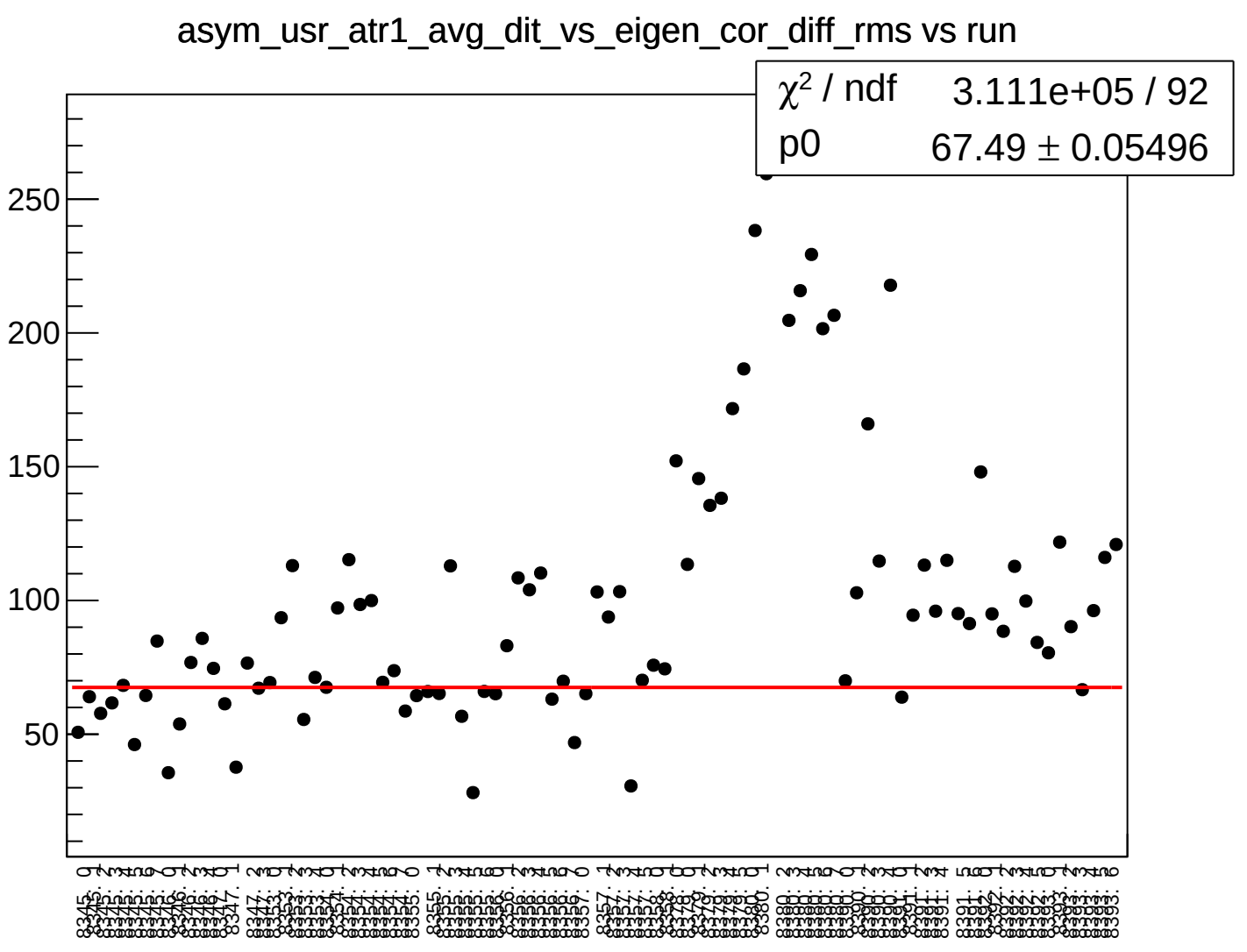

asym_usr_atr1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.262e+06 / 92
p0 1.258e−10 ± 1.686e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

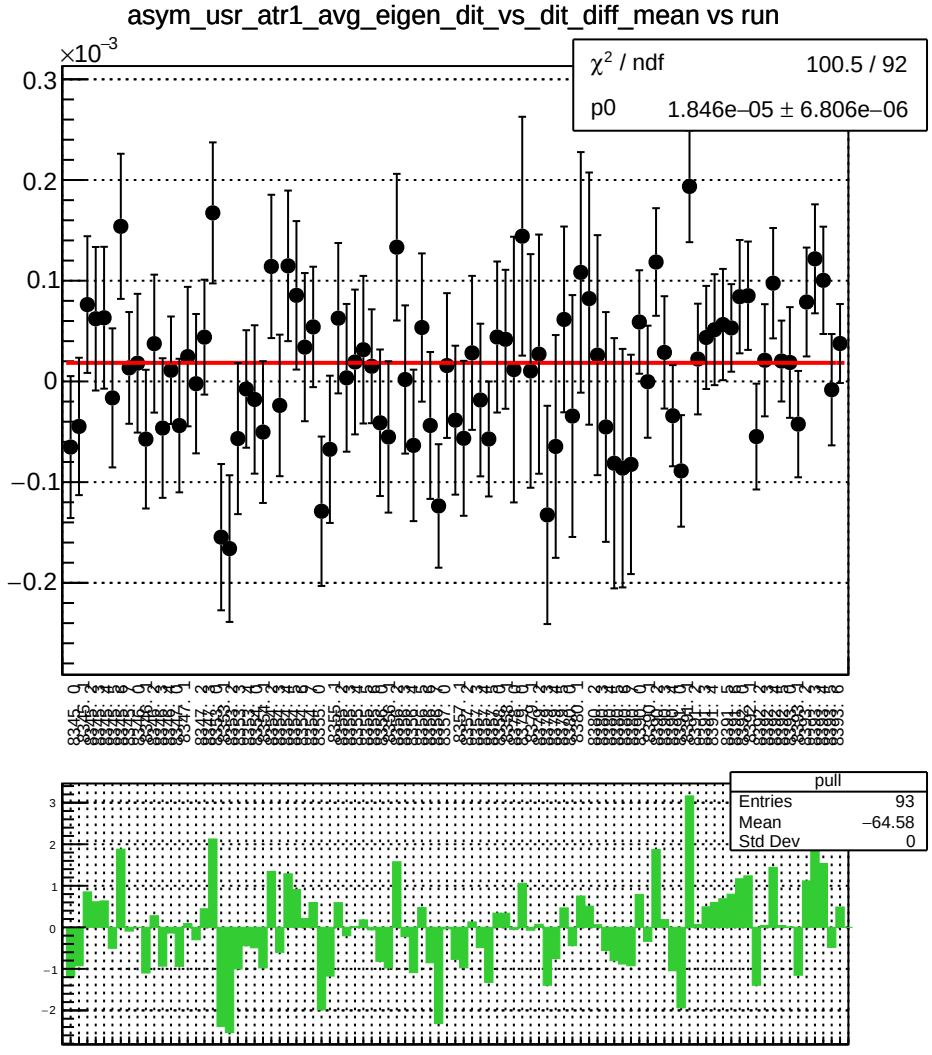

asym_usr_atr1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 97.22 / 92
p0 0.1108 ± 0.07773
pull
Entries 93
Mean 117.5
Std Dev 0
pull1D
Entries 93
Mean 0.08337
Std Dev 1.019

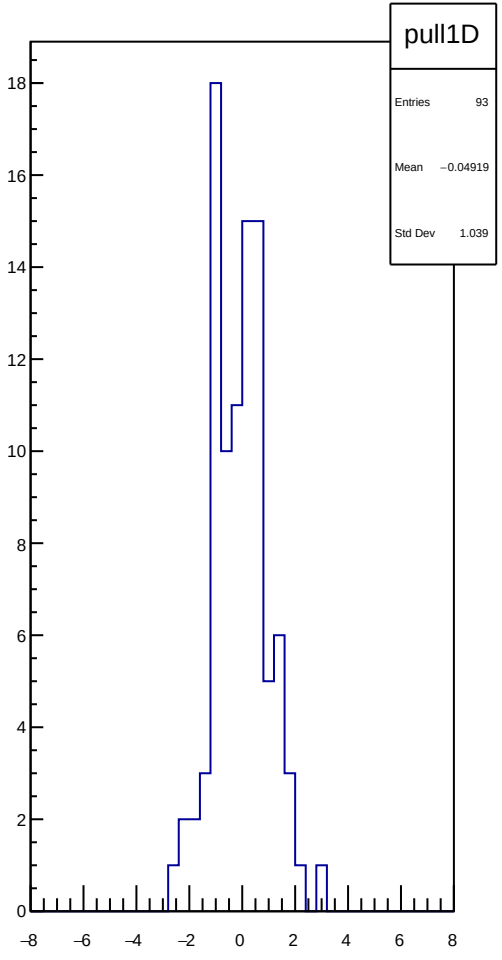

asym_usr_atr1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.111e+05 / 92
p0 67.49 ± 0.05496
250
200
150
100
50

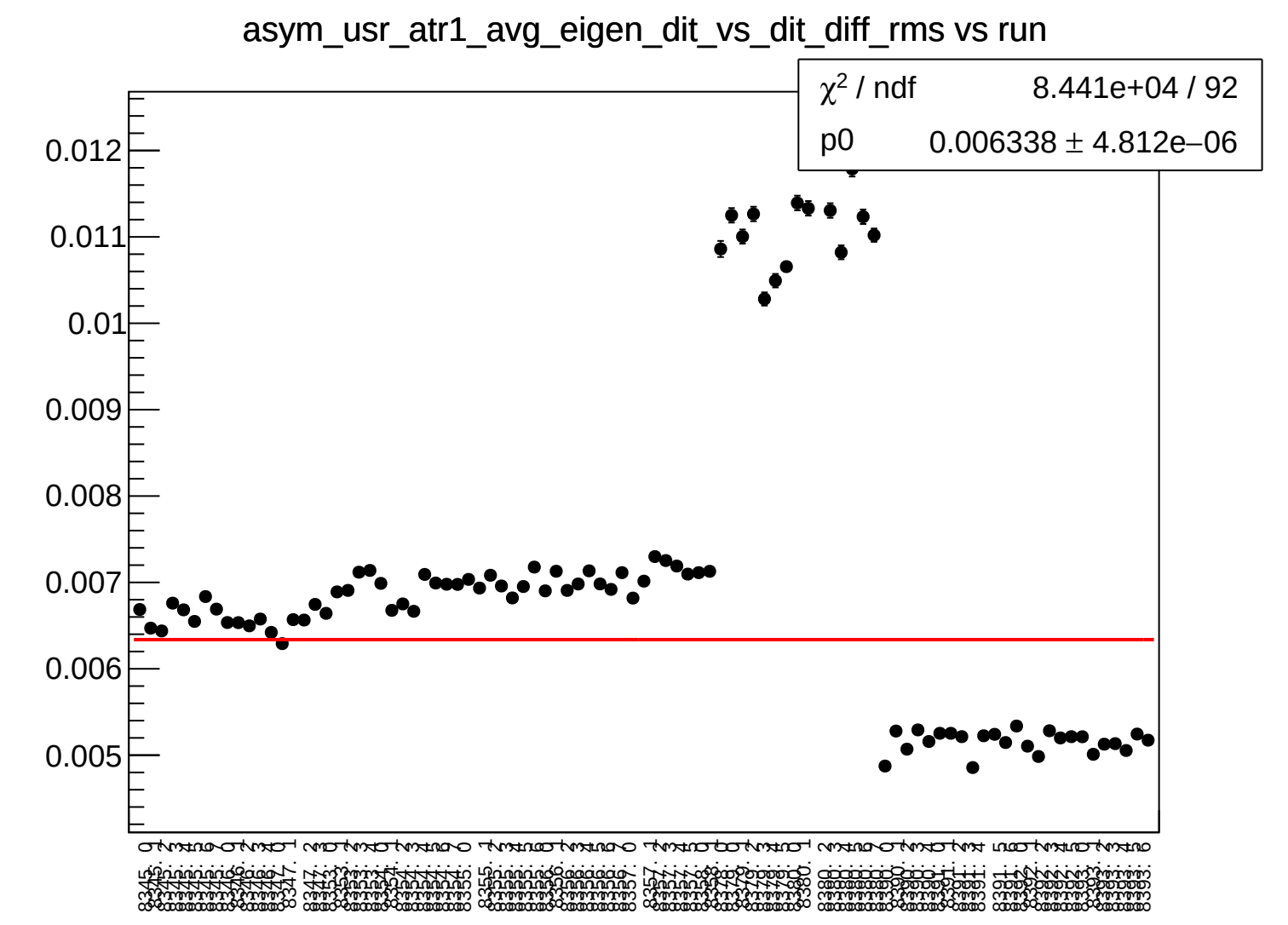

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.22 / 92
p0 0.1108 ± 0.07773
pull
Entries 93
Mean 117.5
Std Dev 0

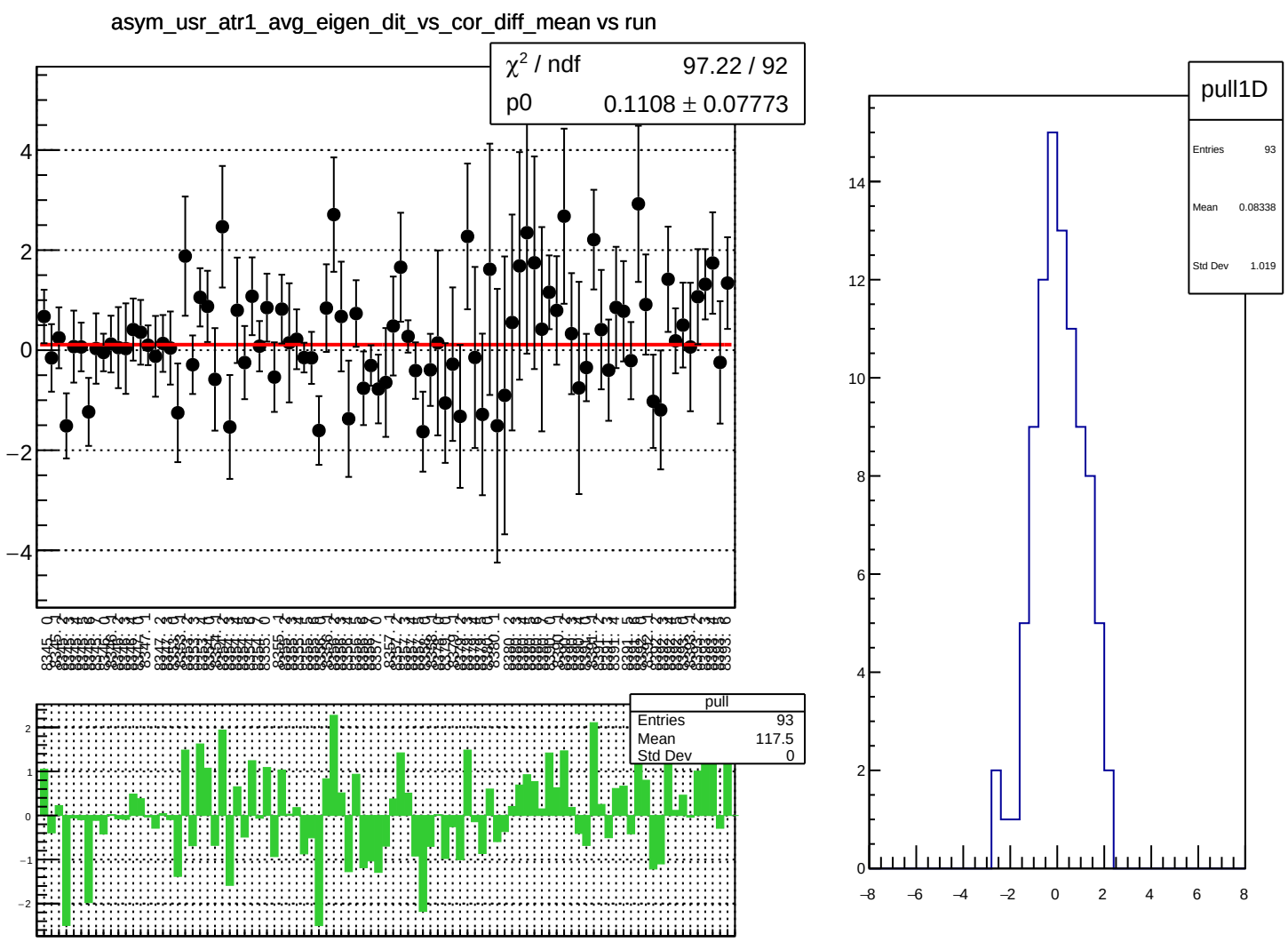

pull1D
Entries 93
Mean 0.08337
Std Dev 1.019

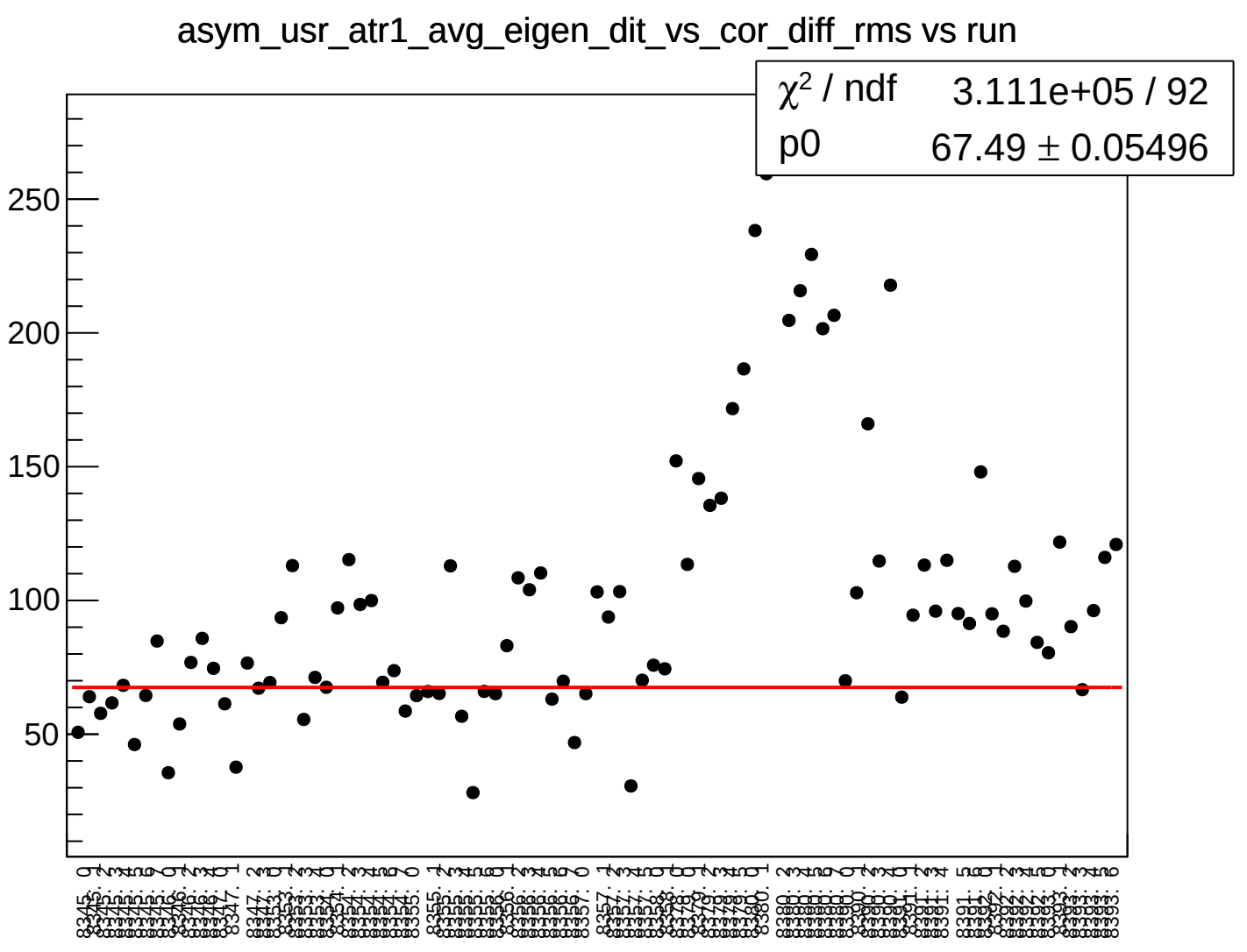

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.111e+05 / 92
p0 67.49 ± 0.05496
250
200
150
100
50

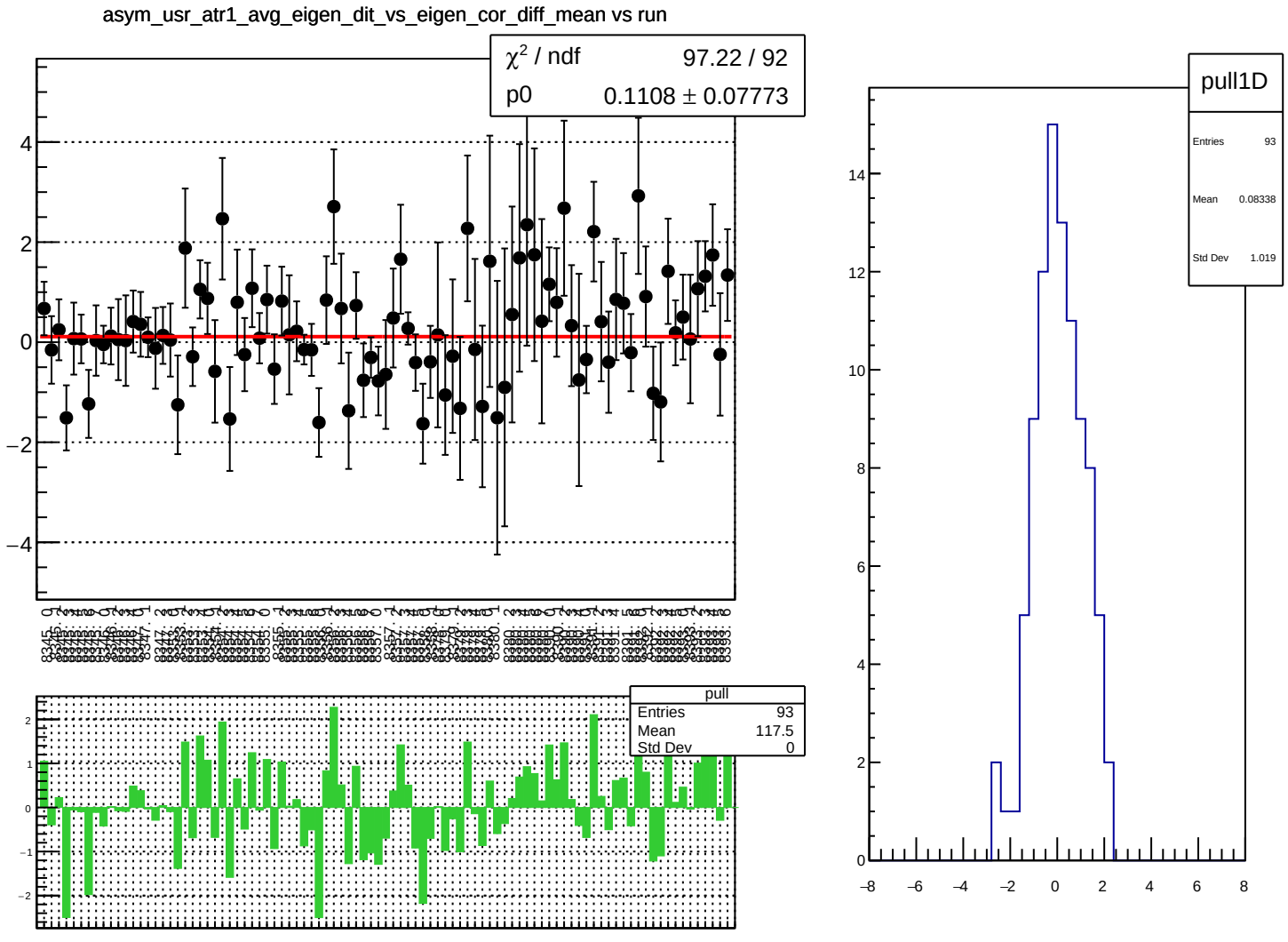

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 100.5 / 92
p0 1.846e−05 ± 6.806e−06
pull
Entries 93
Mean −64.58
Std Dev 0

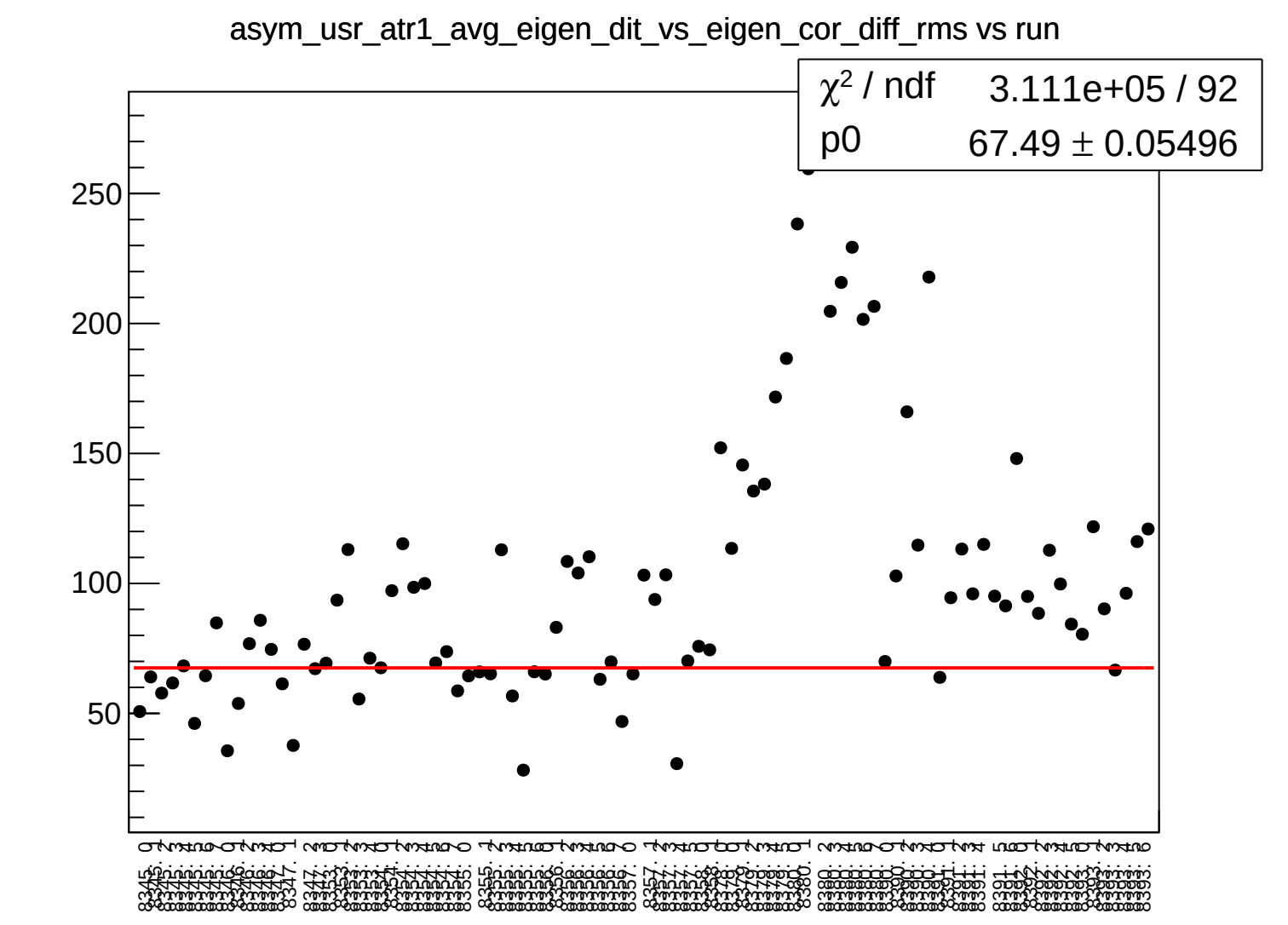

pull1D
Entries 93
Mean −0.04919
Std Dev 1.039

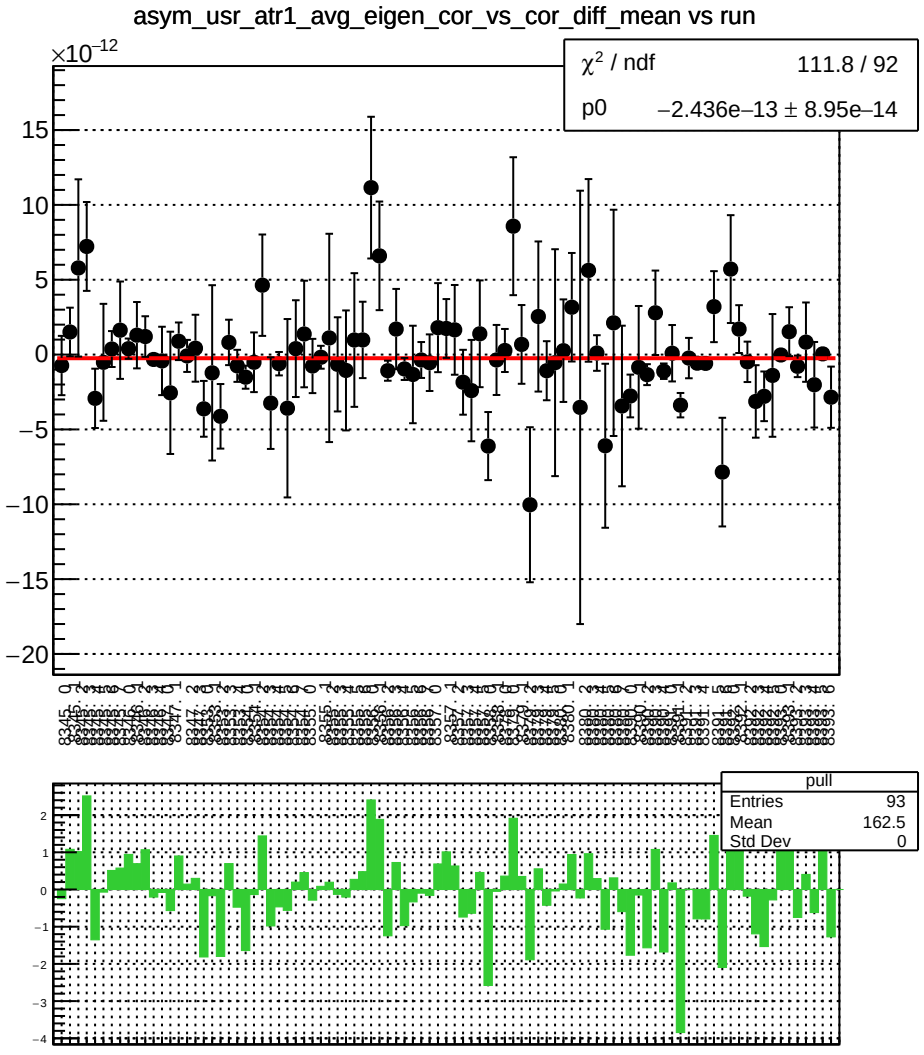

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.441e+04 / 92
p0 0.006338 ± 4.812e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005

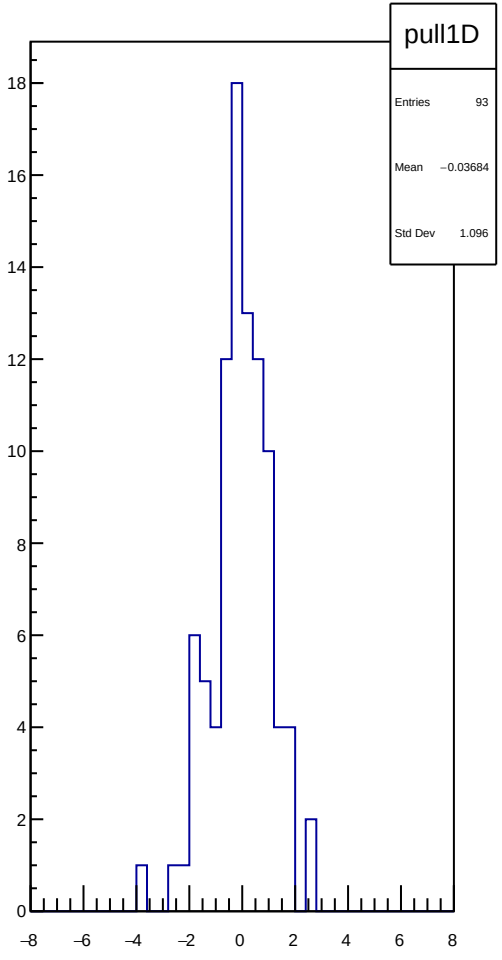

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.22 / 92
p0 0.1108 ± 0.07773
pull
Entries 93
Mean 117.5
Std Dev 0
pull1D
Entries 93
Mean 0.08338
Std Dev 1.019

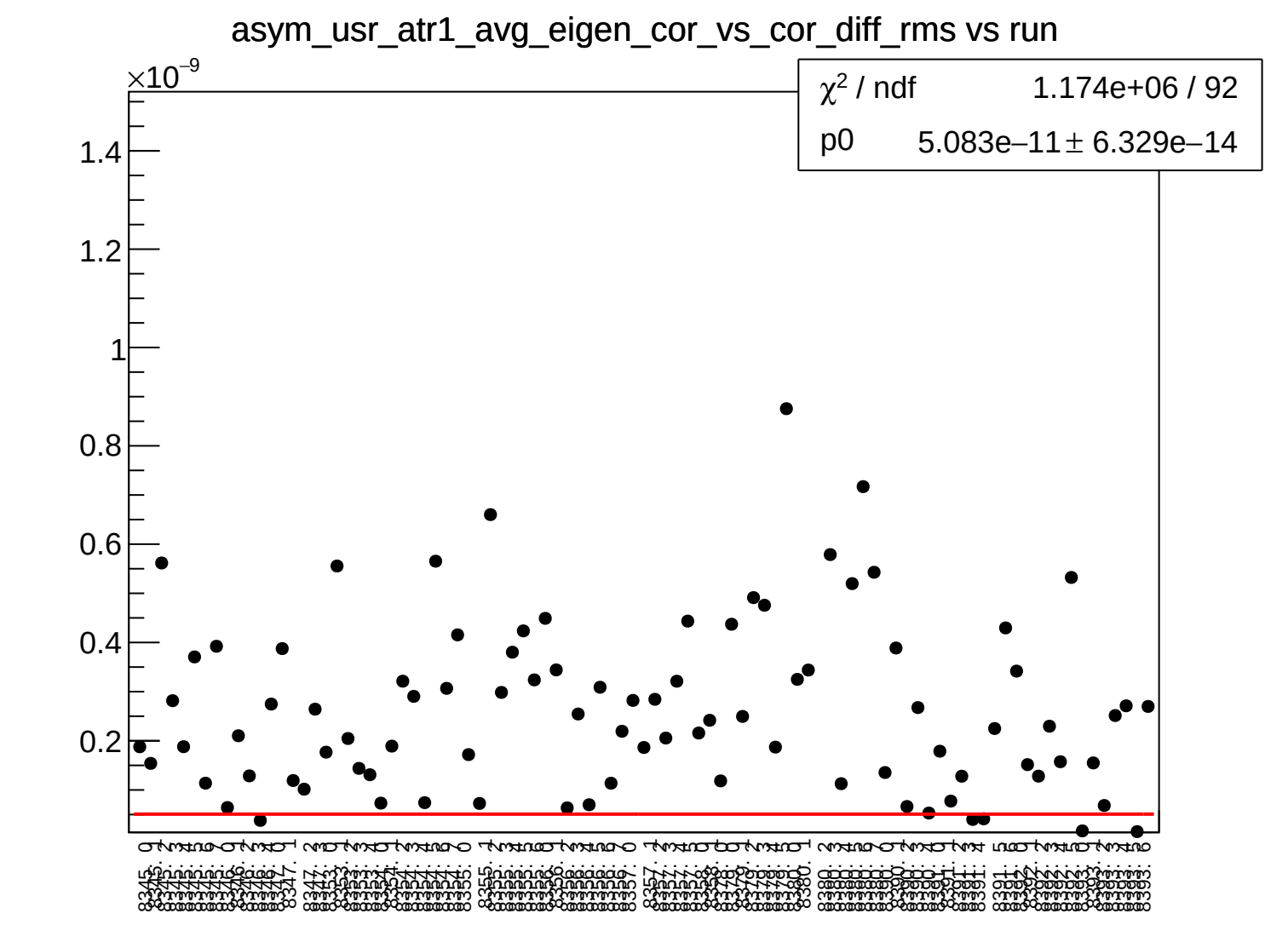

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.111e+05 / 92
p0 67.49 ± 0.05496
250
200
150
100
50

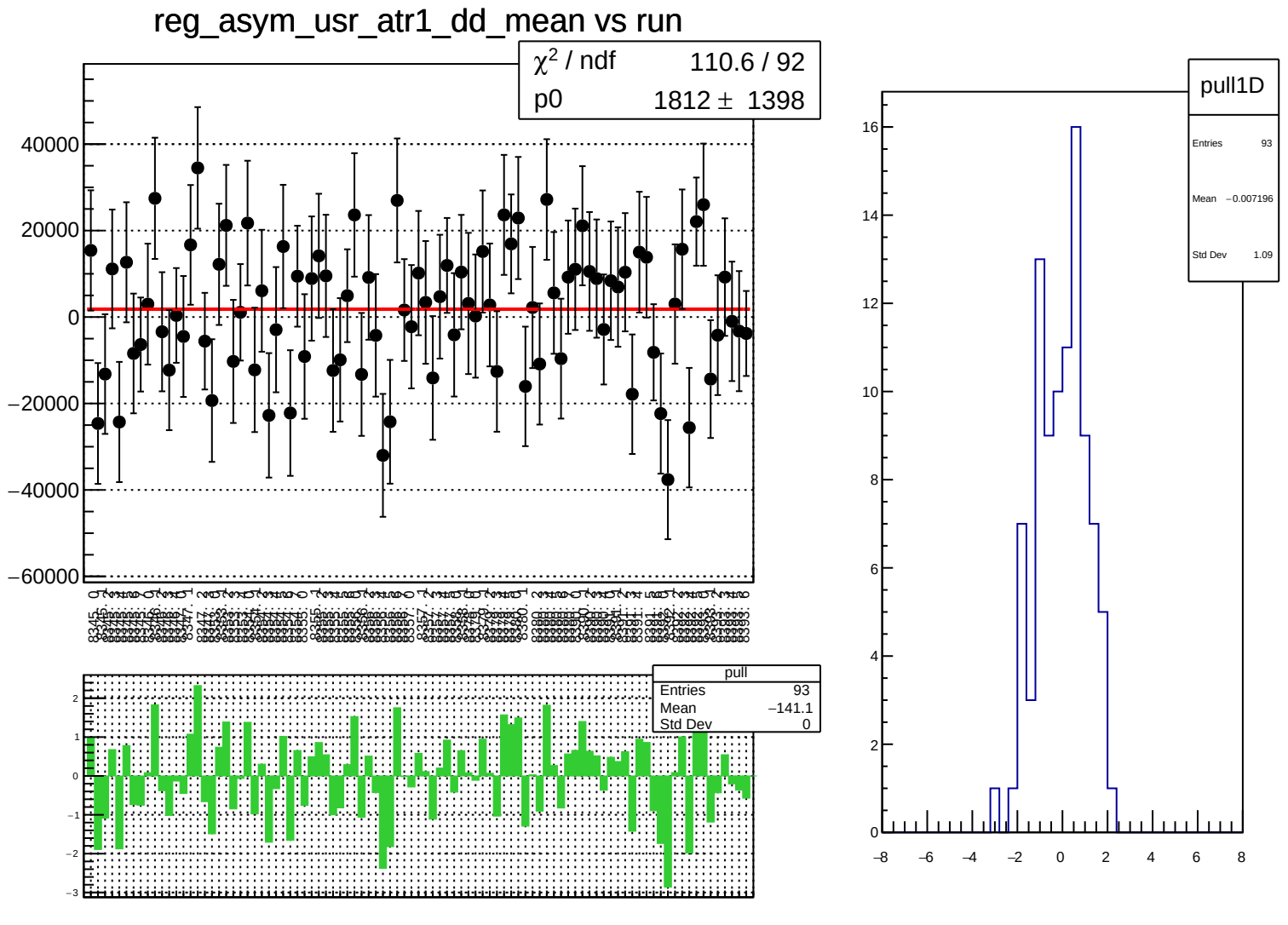

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.22 / 92
p0 0.1108 ± 0.07773
pull
Entries 93
Mean 117.5
Std Dev 0
pull1D
Entries 93
Mean 0.08338
Std Dev 1.019

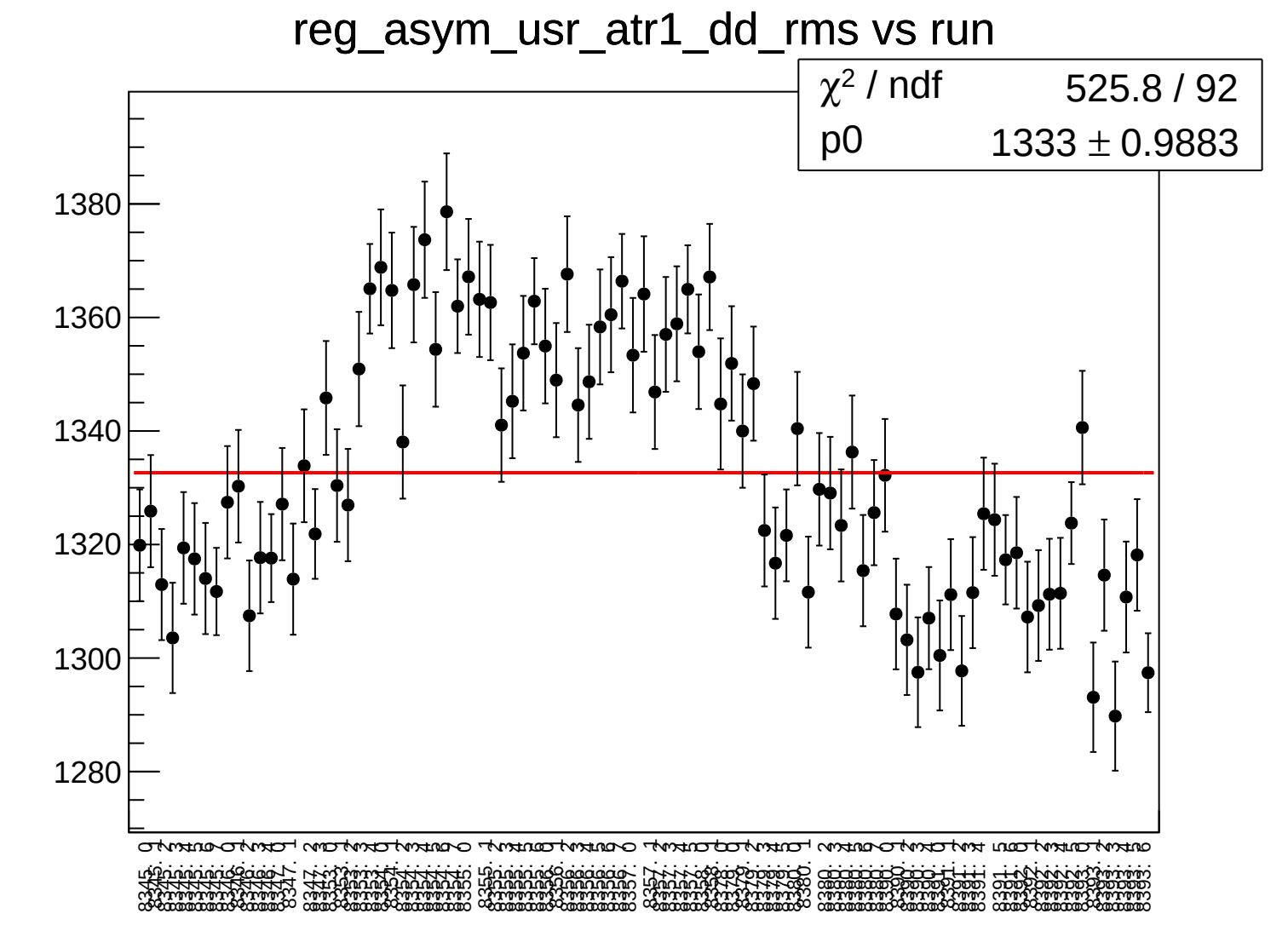

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.111e+05 / 92
p0 67.49 ± 0.05496
250
200
150
100
50

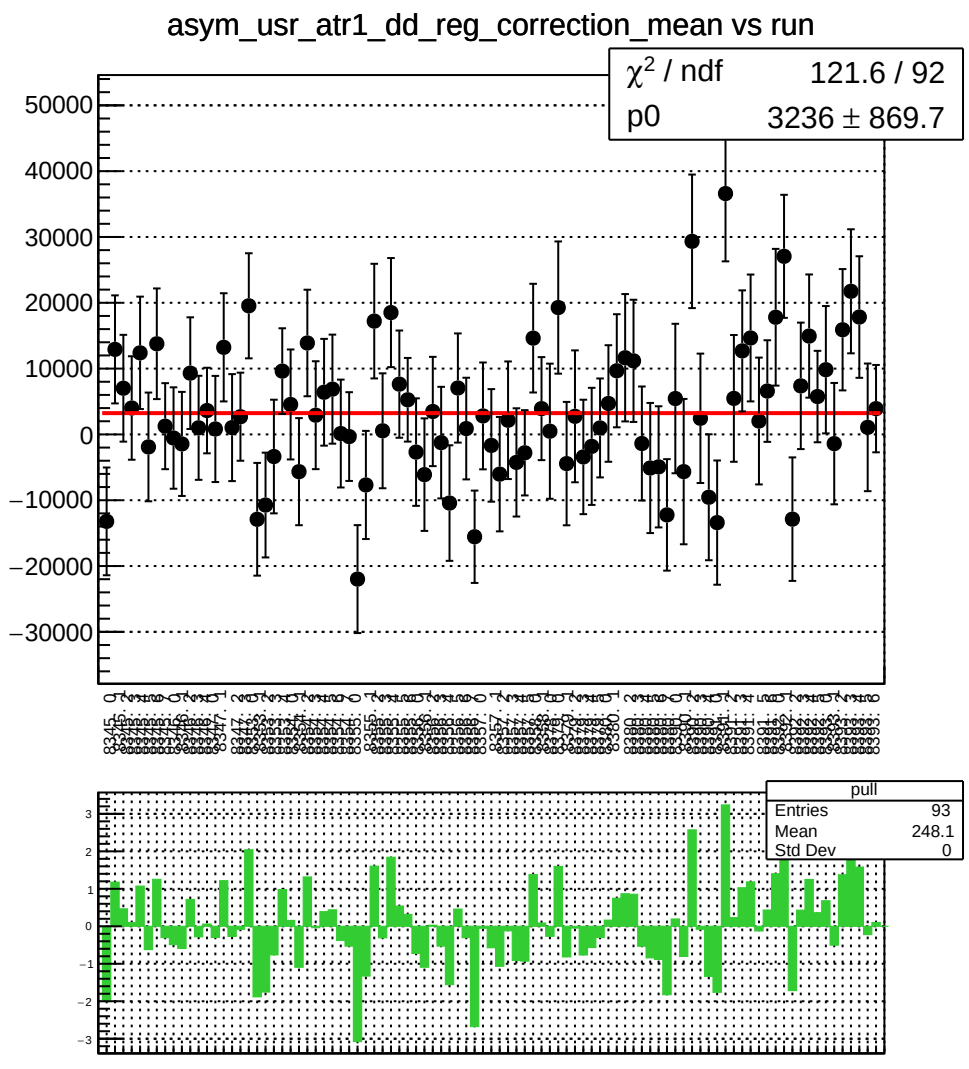

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 111.8 / 92
p0 −2.436e−13 ± 8.95e−14
pull
Entries 93
Mean 162.5
Std Dev 0

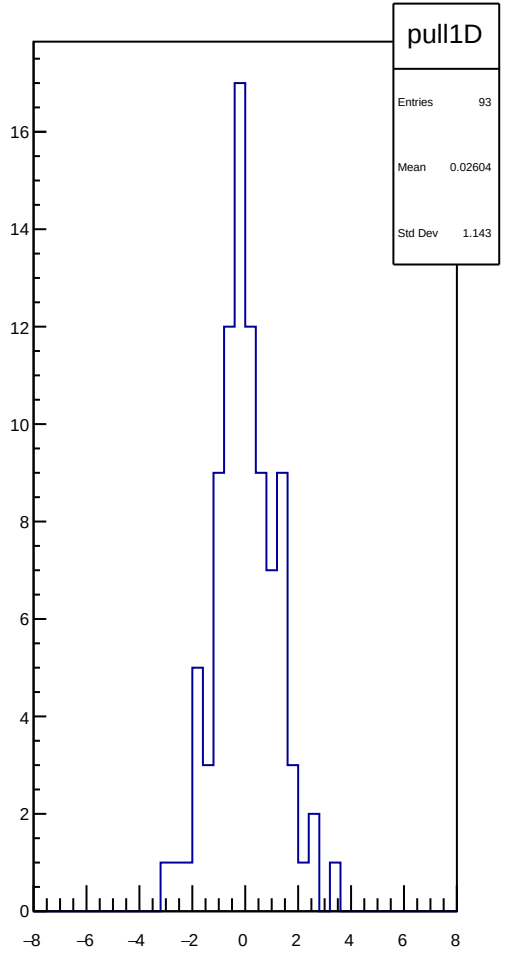

pull1D
Entries 93
Mean −0.03684
Std Dev 1.096

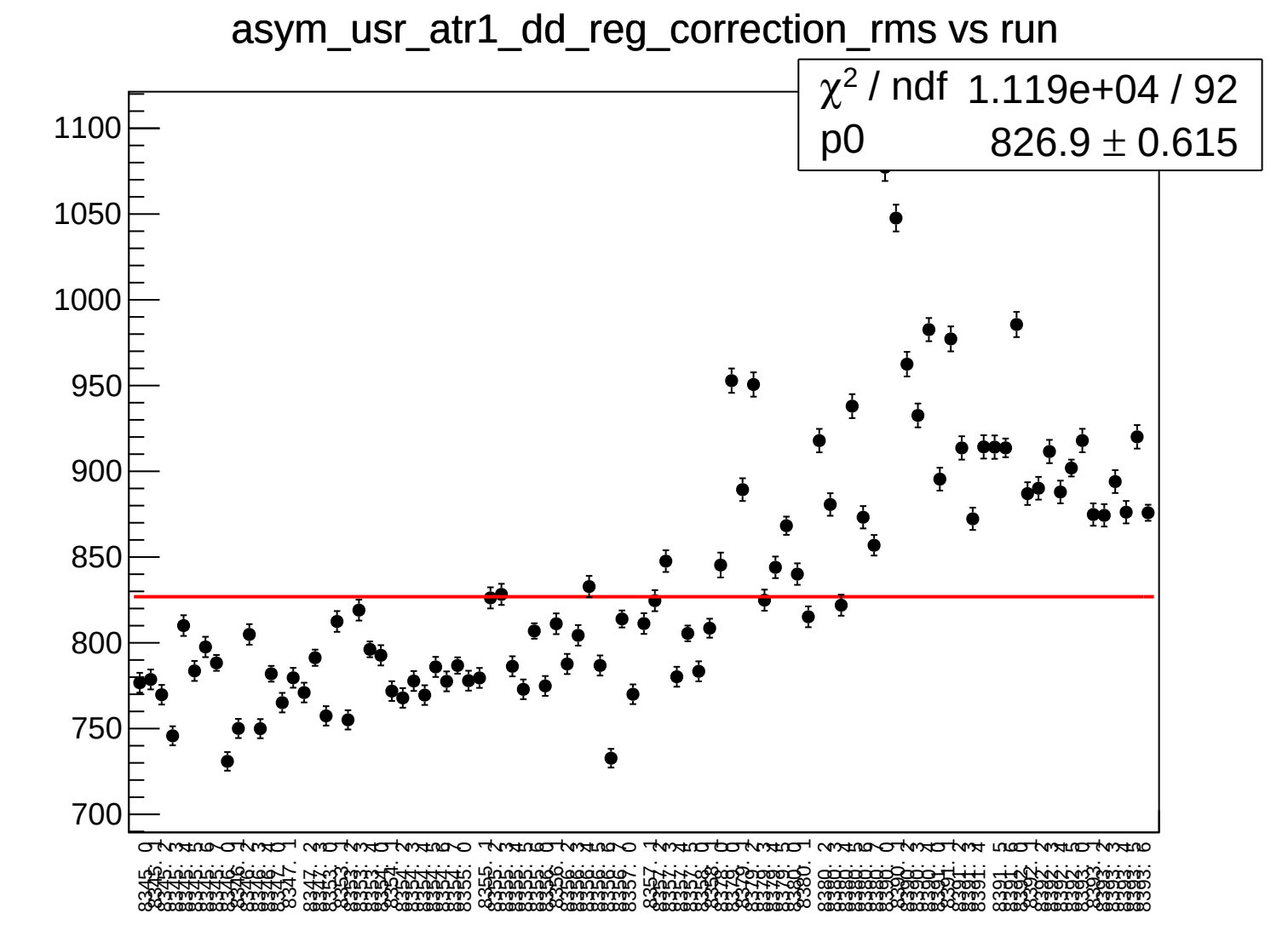

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.174e+06 / 92
p0 5.083e−11 ± 6.329e−14
1.4
1.2
1
0.8
0.6
0.4
0.2

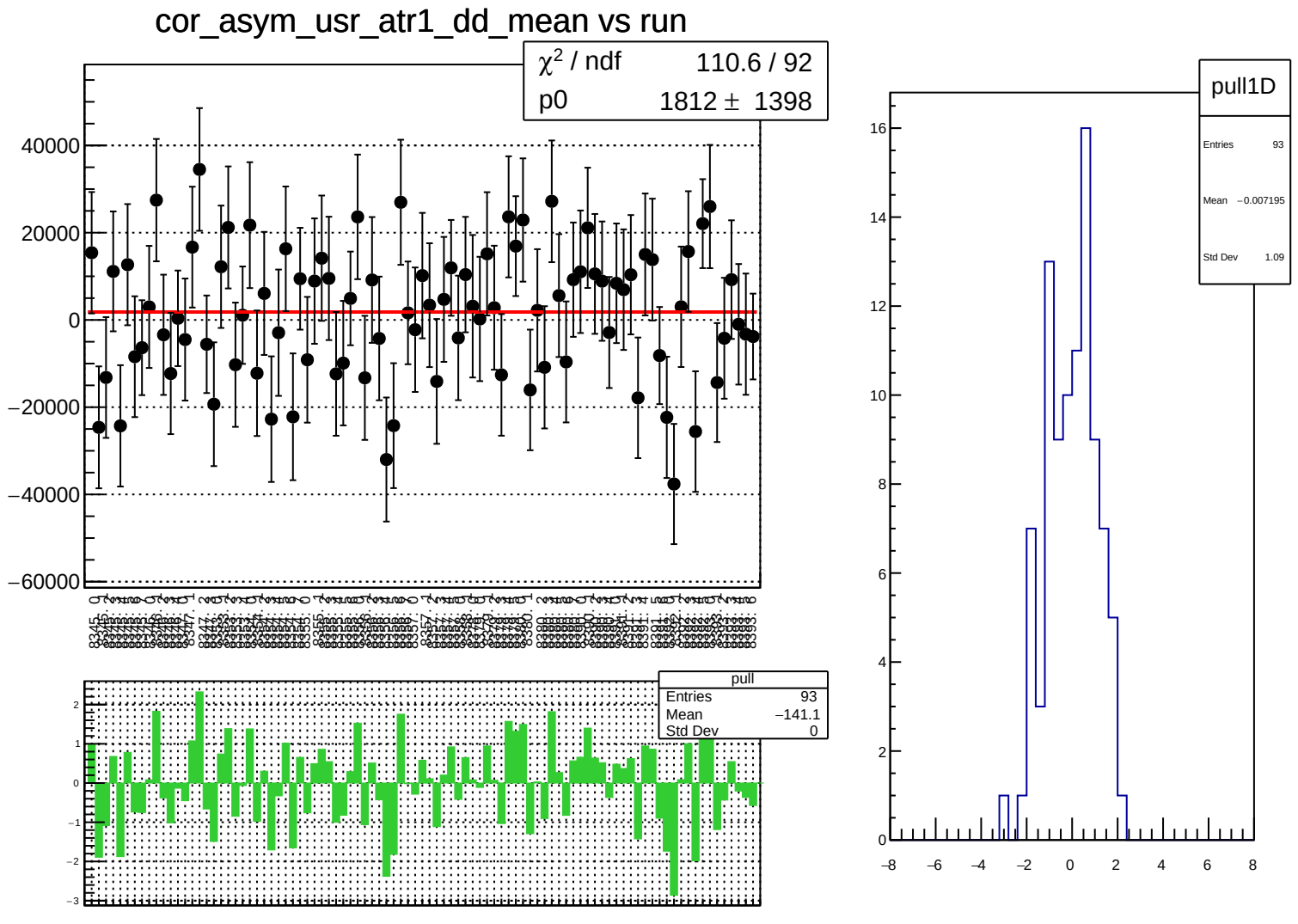

reg_asym_usr_atr1_dd_mean vs run
χ² / ndf 110.6 / 92
p0 1812 ± 1398
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −141.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.007196
Std Dev 1.09
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

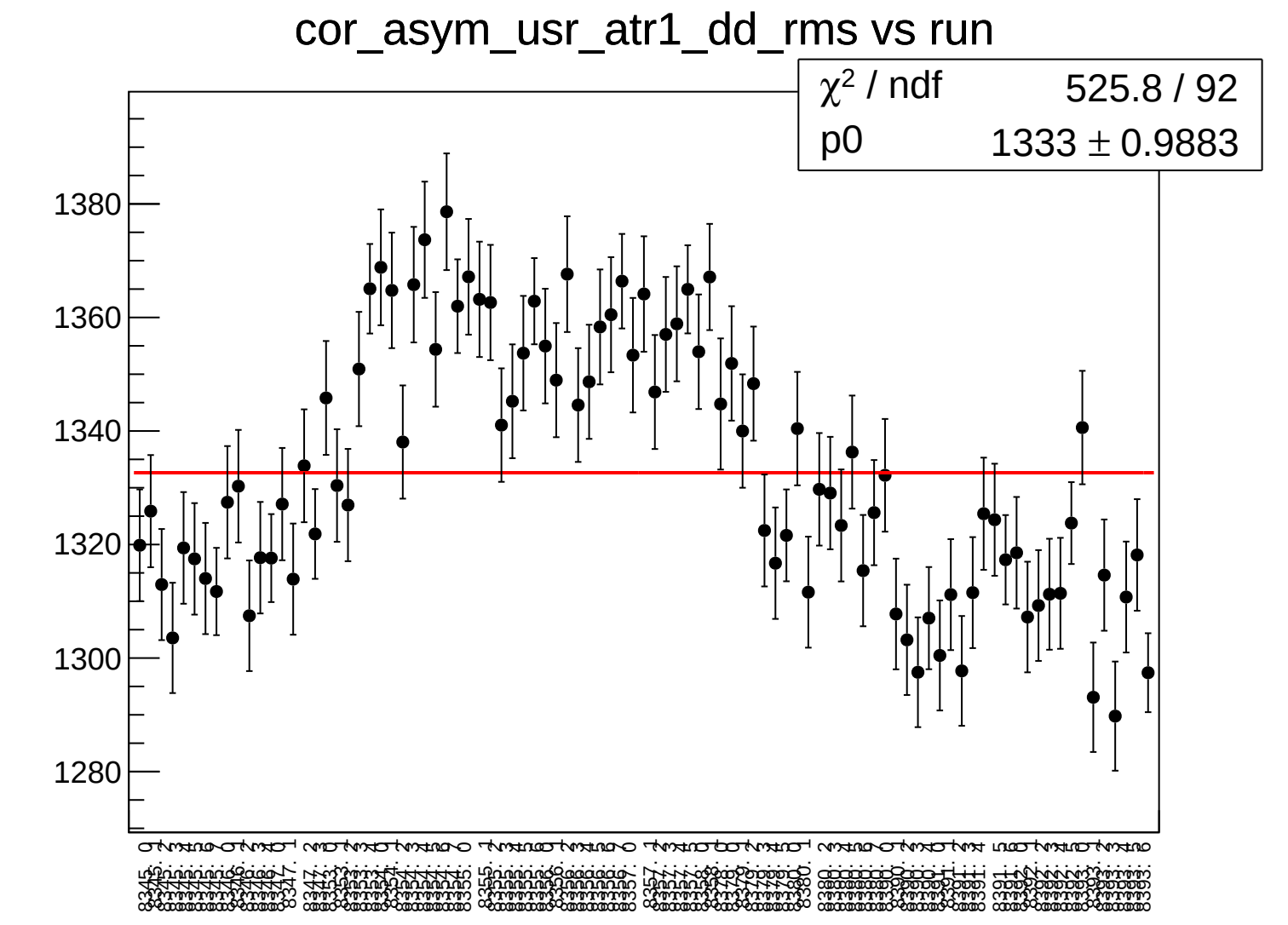

reg_asym_usr_atr1_dd_rms vs run
χ² / ndf 525.8 / 92
p0 1333 ± 0.9883
1380
1360
1340
1320
1300
1280

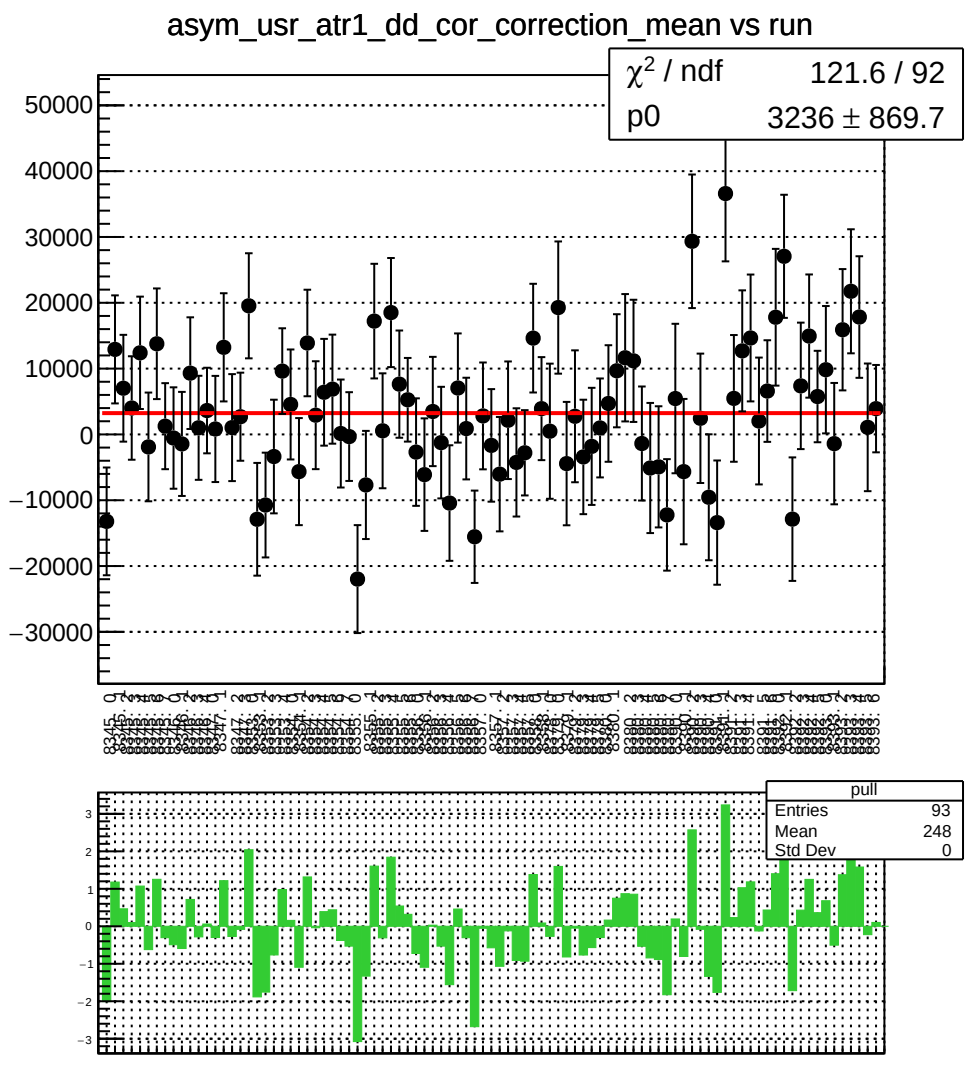

asym_usr_atr1_dd_reg_correction_mean vs run
χ² / ndf 121.6 / 92
p0 3236 ± 869.7
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean 248.1
Std Dev 0
3
2
1
0
−1
−2
−3

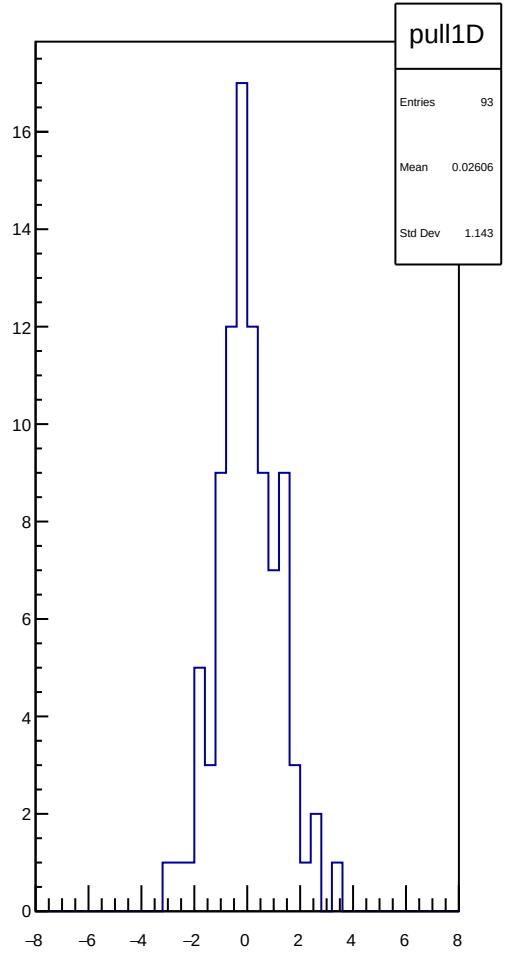

pull1D
Entries 93
Mean 0.02604
Std Dev 1.143
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

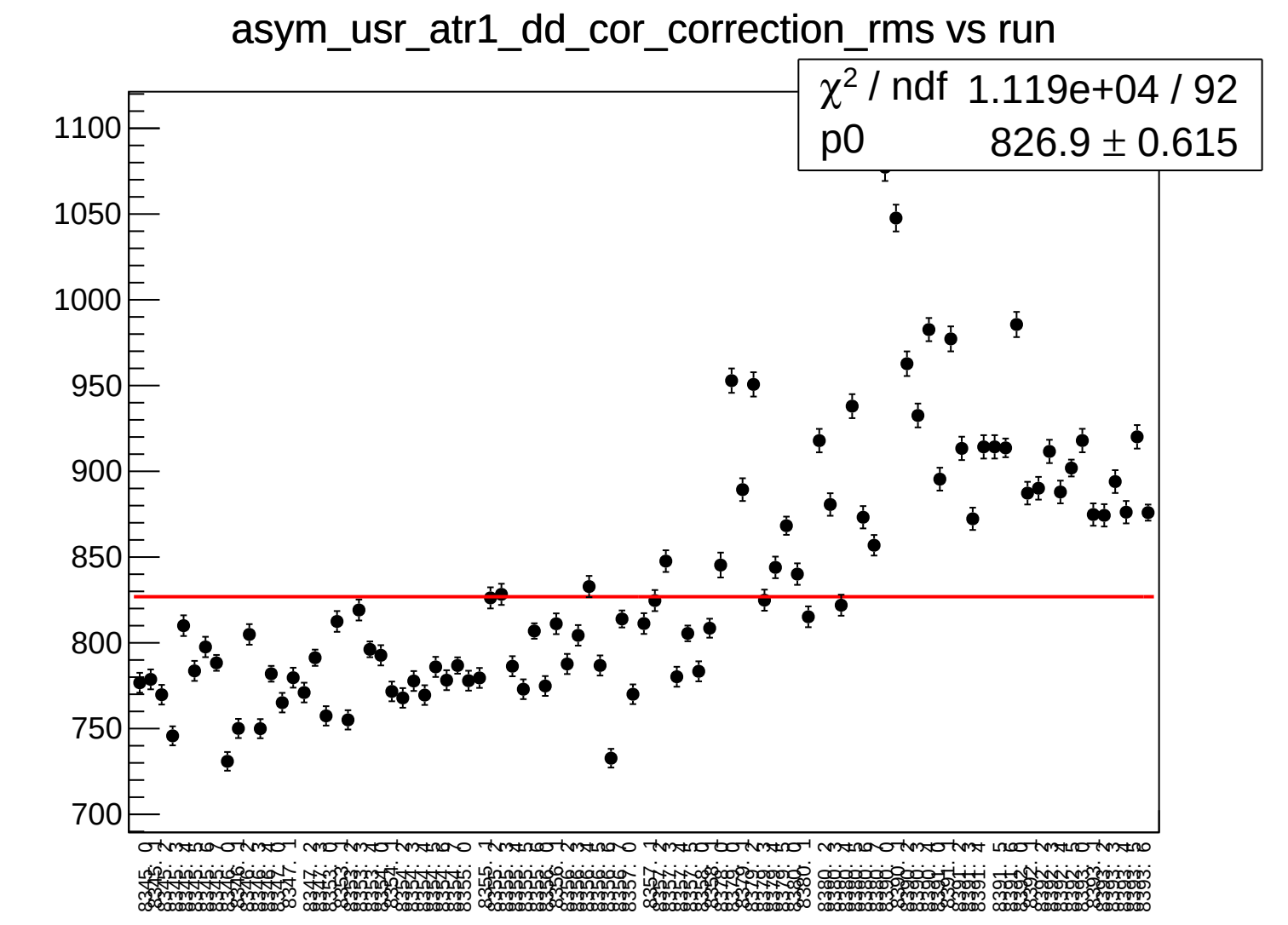

asym_usr_atr1_dd_reg_correction_rms vs run
χ² / ndf 1.119e+04 / 92
p0 826.9 ± 0.615
1100
1050
1000
950
900
850
800
750
700

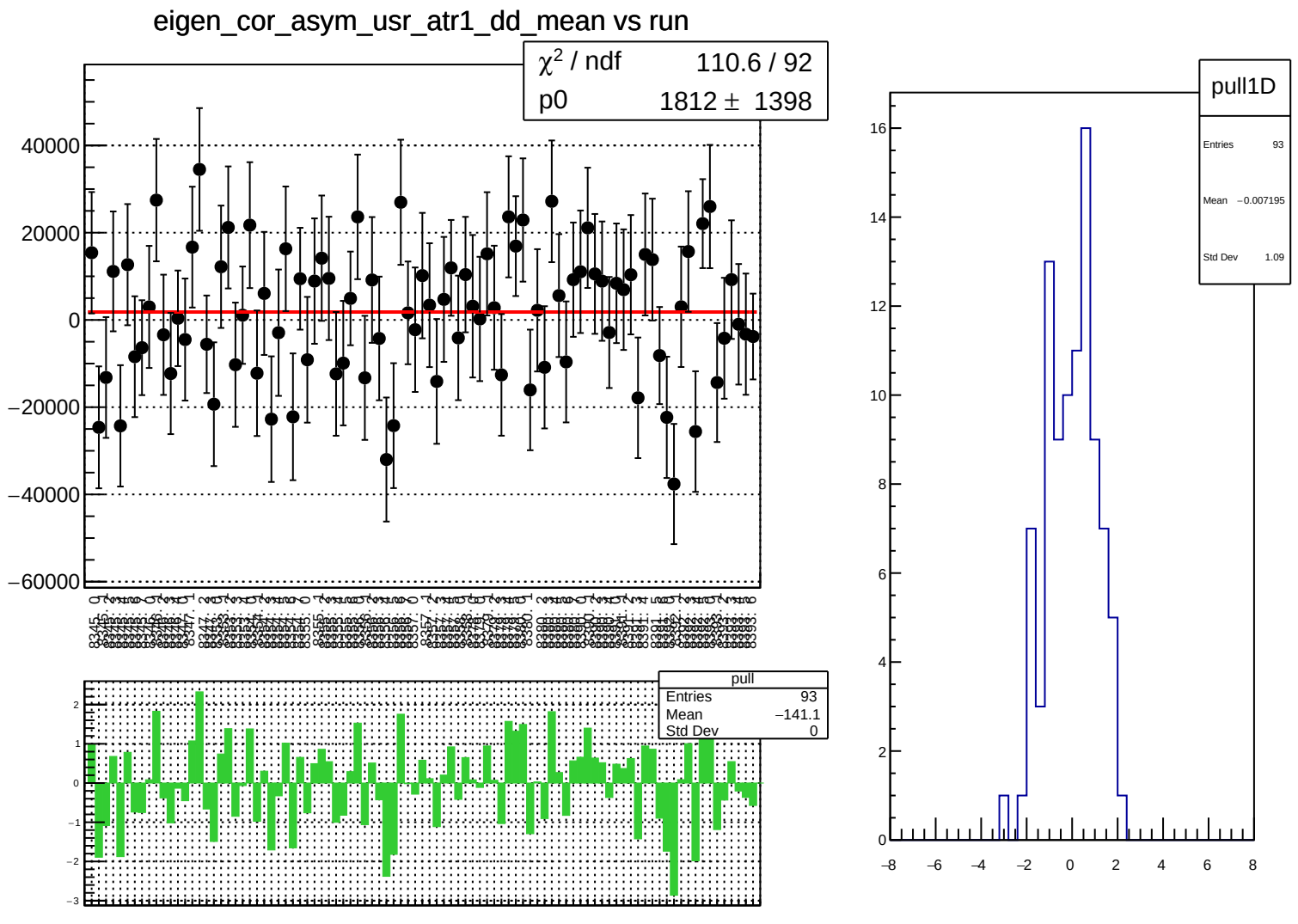

cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 110.6 / 92
p0 1812 ± 1398
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −141.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.007195
Std Dev 1.09
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

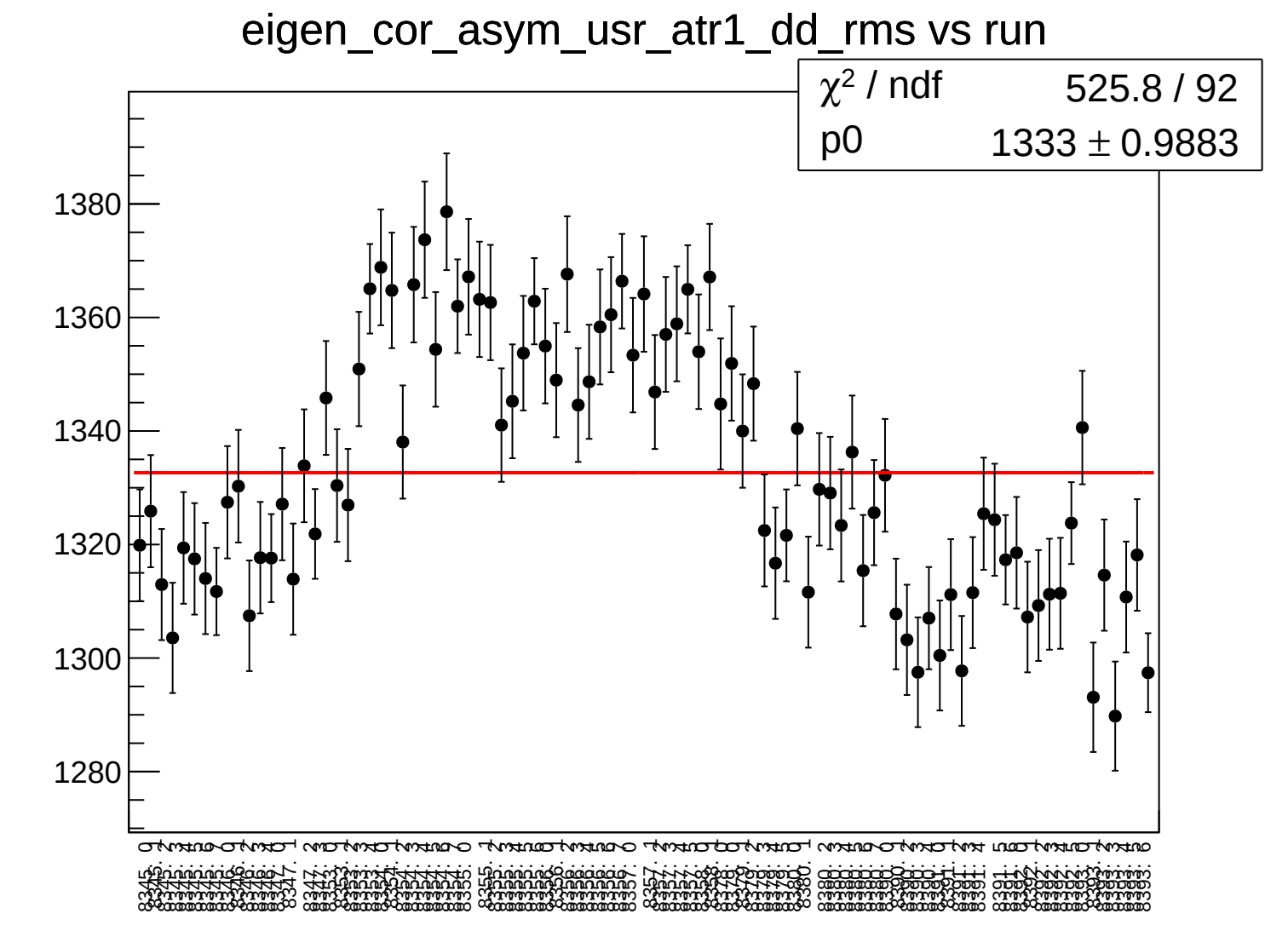

cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 525.8 / 92
p0 1333 ± 0.9883
1380
1360
1340
1320
1300
1280

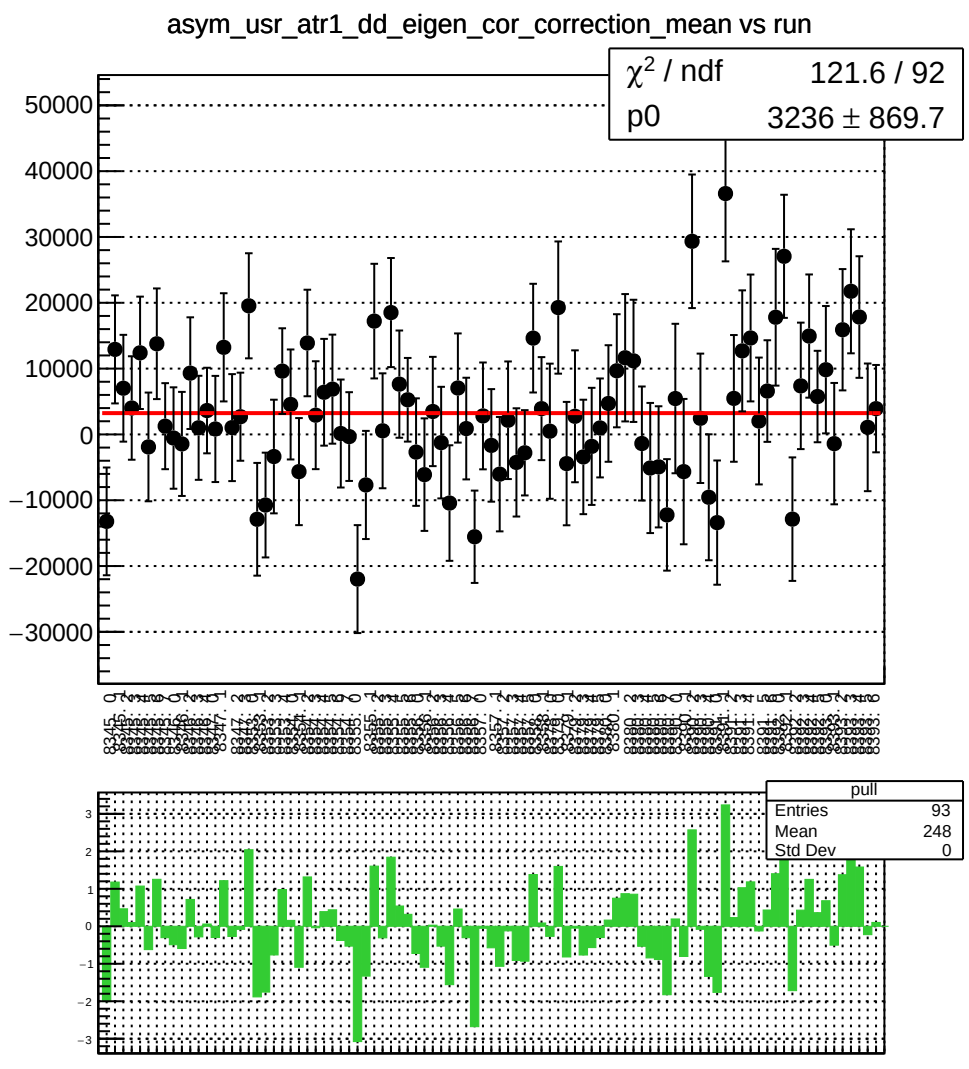

asym_usr_atr1_dd_cor_correction_mean vs run
χ² / ndf 121.6 / 92
p0 3236 ± 869.7
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean 248
Std Dev 0
3
2
1
0
−1
−2
−3

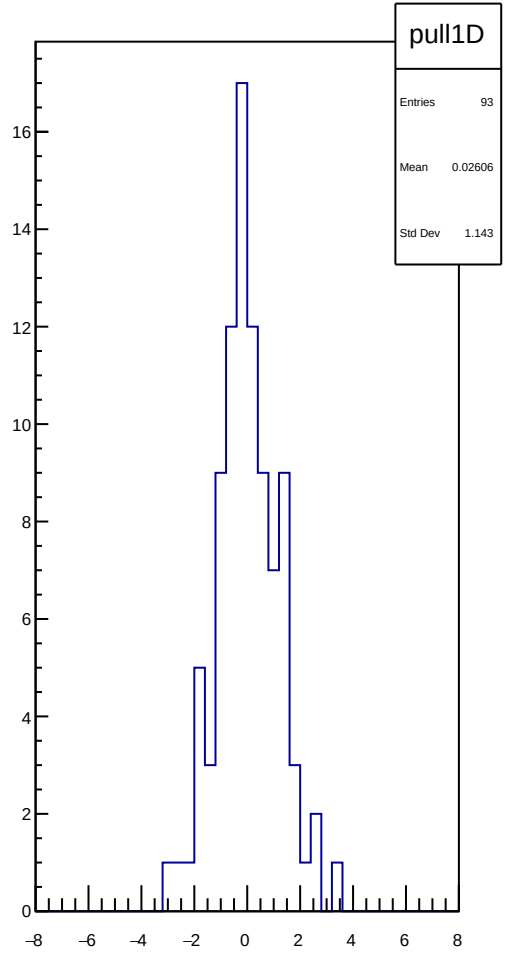

pull1D
Entries 93
Mean 0.02606
Std Dev 1.143
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

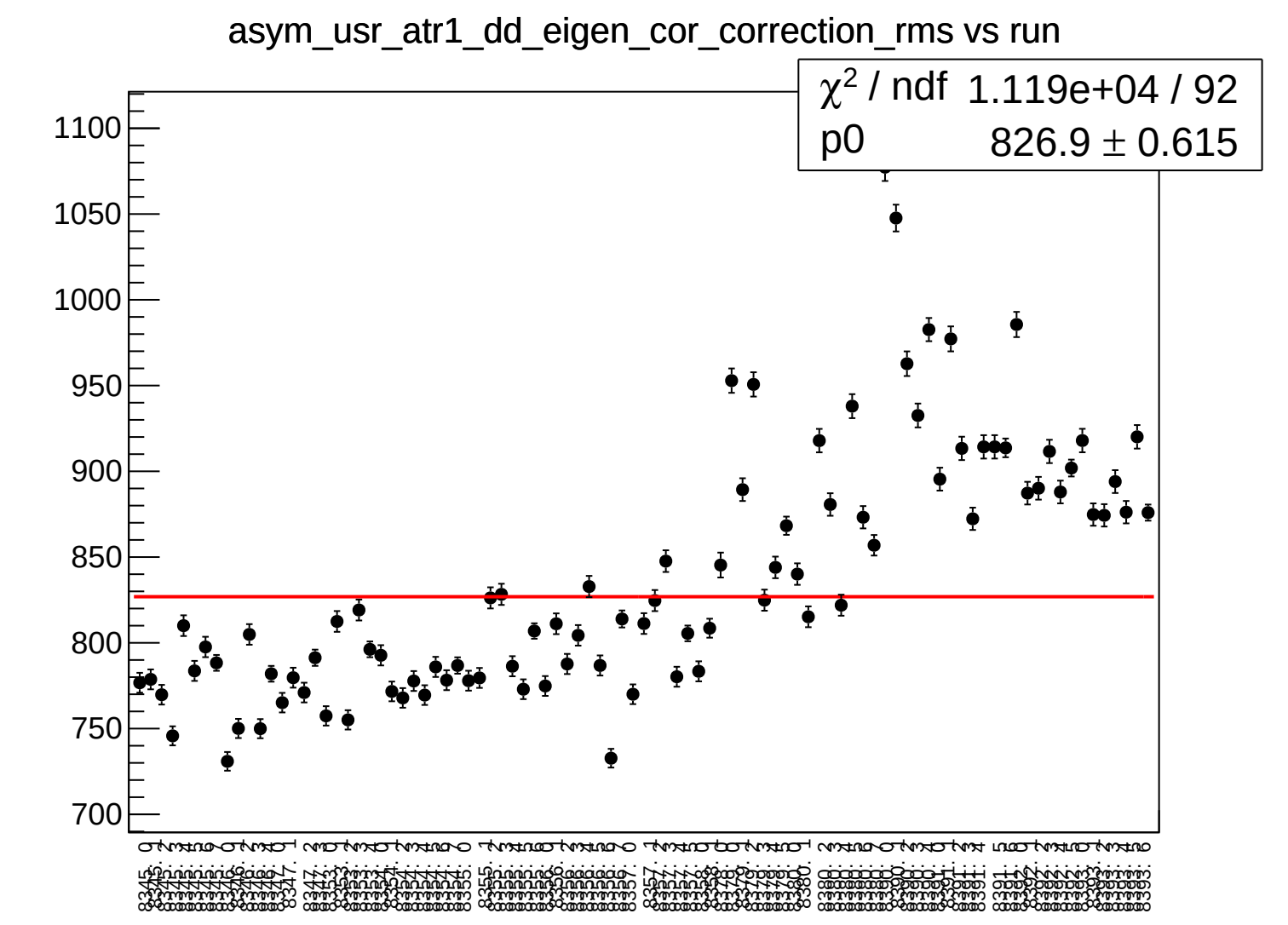

asym_usr_atr1_dd_cor_correction_rms vs run
χ² / ndf 1.119e+04 / 92
p0 826.9 ± 0.615
1100
1050
1000
950
900
850
800
750
700

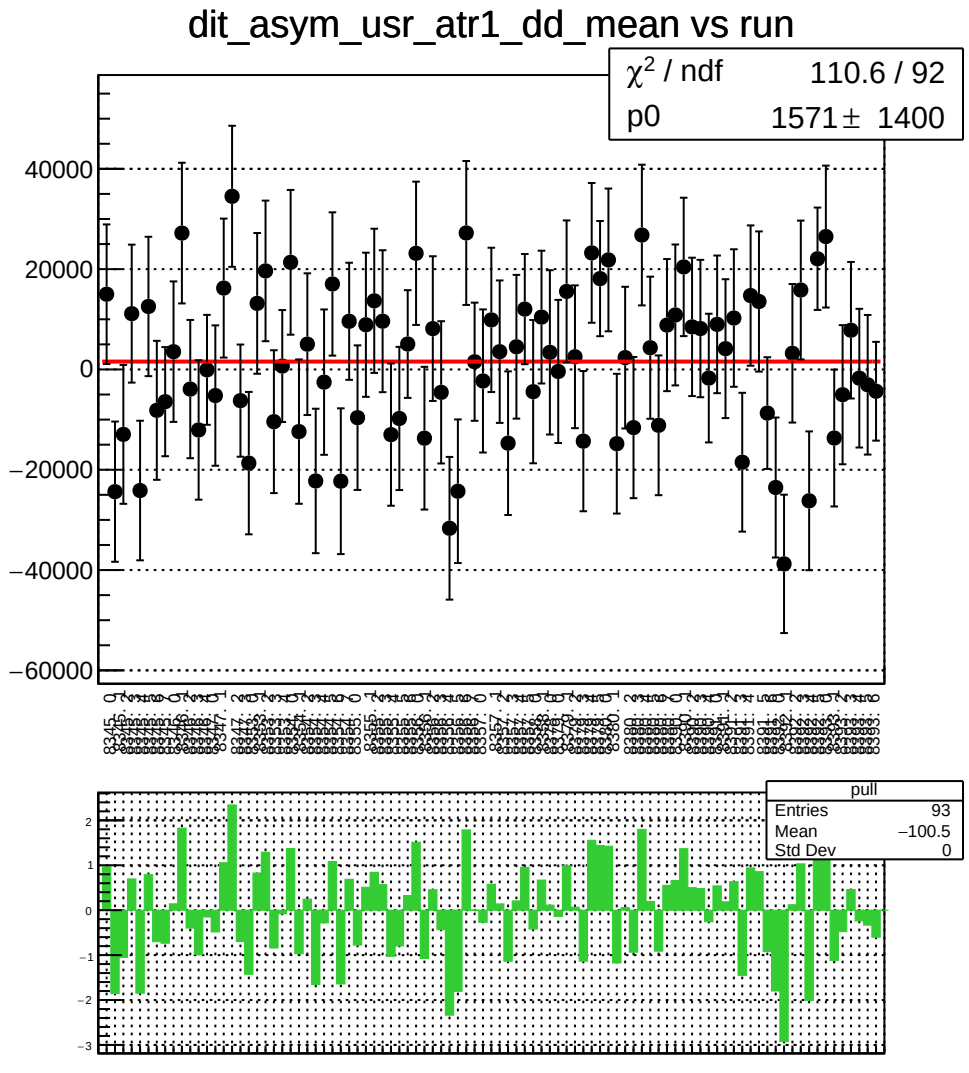

eigen_cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 110.6 / 92
p0 1812 ± 1398
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −141.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.007195
Std Dev 1.09
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

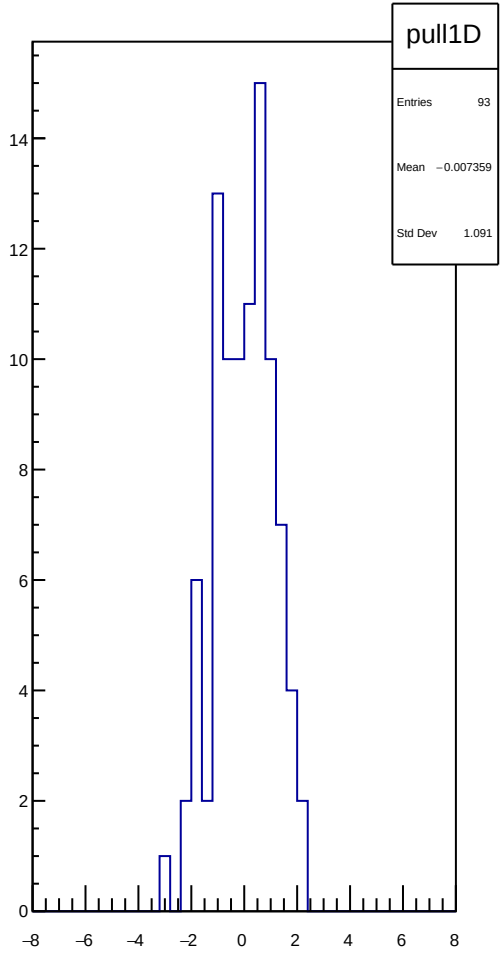

eigen_cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 525.8 / 92
p0 1333 ± 0.9883
1380
1360
1340
1320
1300
1280

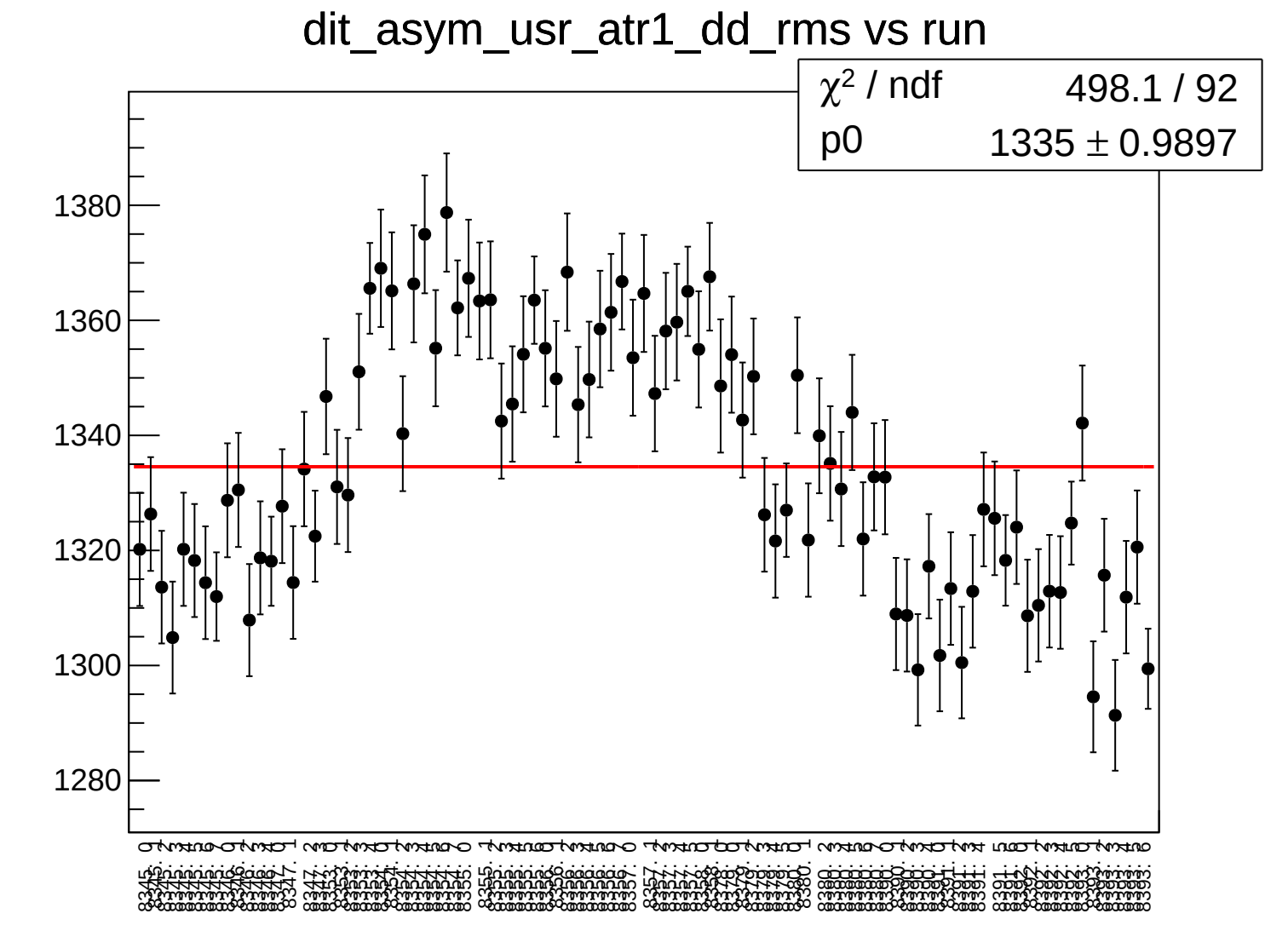

asym_usr_atr1_dd_eigen_cor_correction_mean vs run
χ² / ndf 121.6 / 92
p0 3236 ± 869.7
pull
Entries 93
Mean 248
Std Dev 0

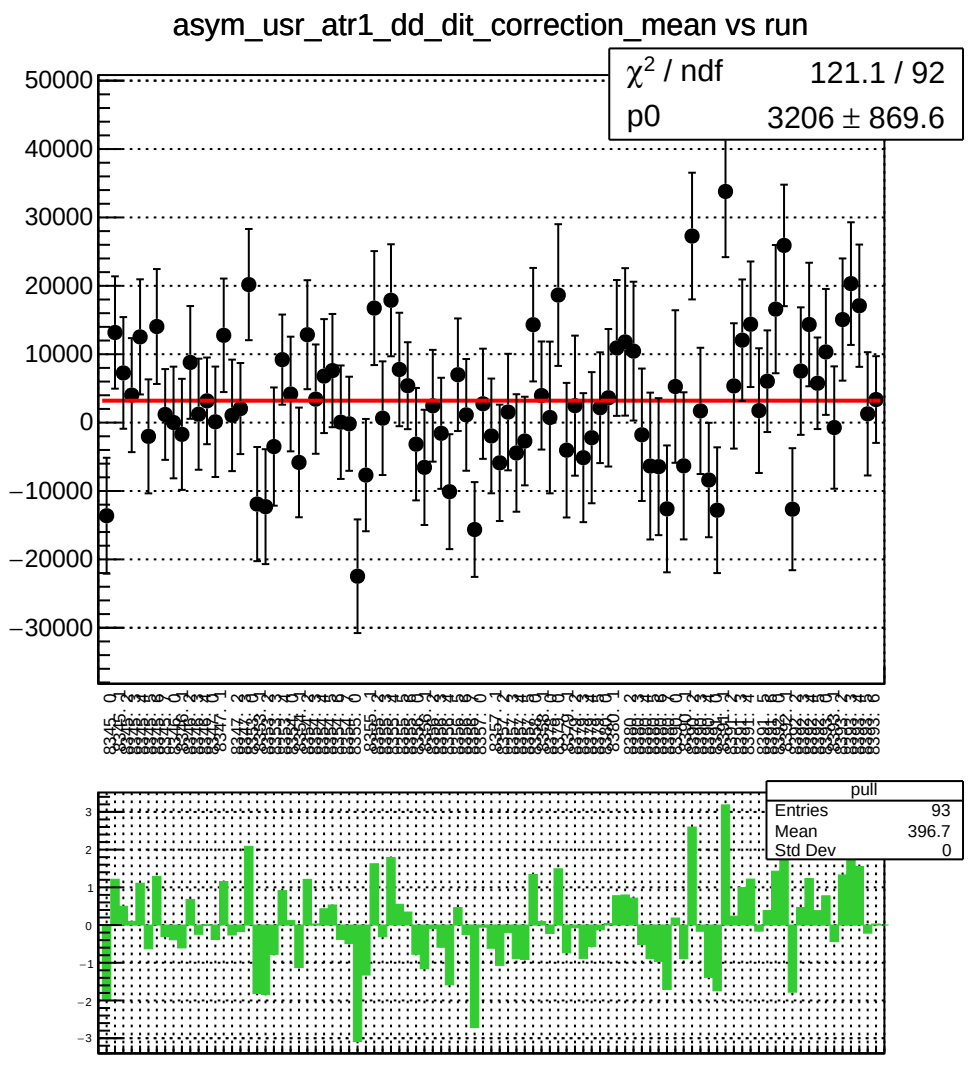

pull1D
Entries 93
Mean 0.02606
Std Dev 1.143

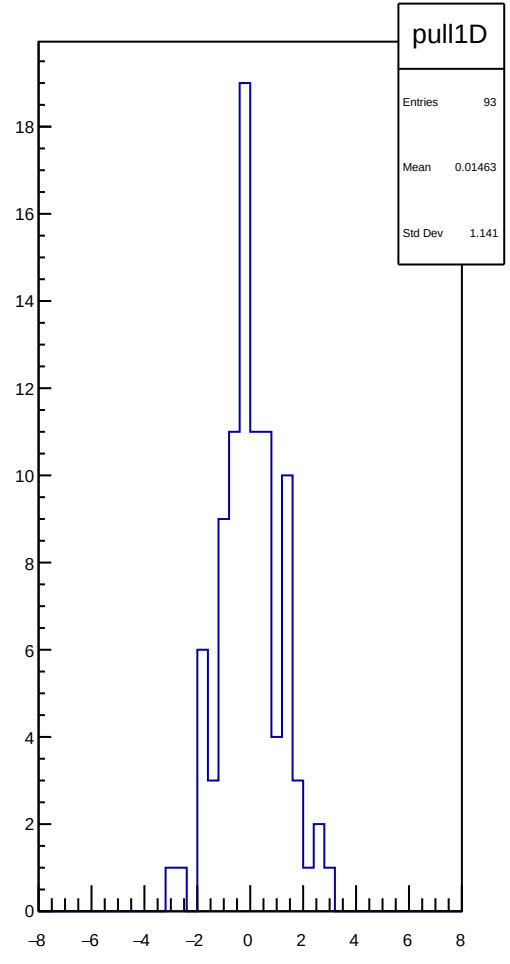

asym_usr_atr1_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.119e+04 / 92
p0 826.9 ± 0.615
1100
1050
1000
950
900
850
800
750
700

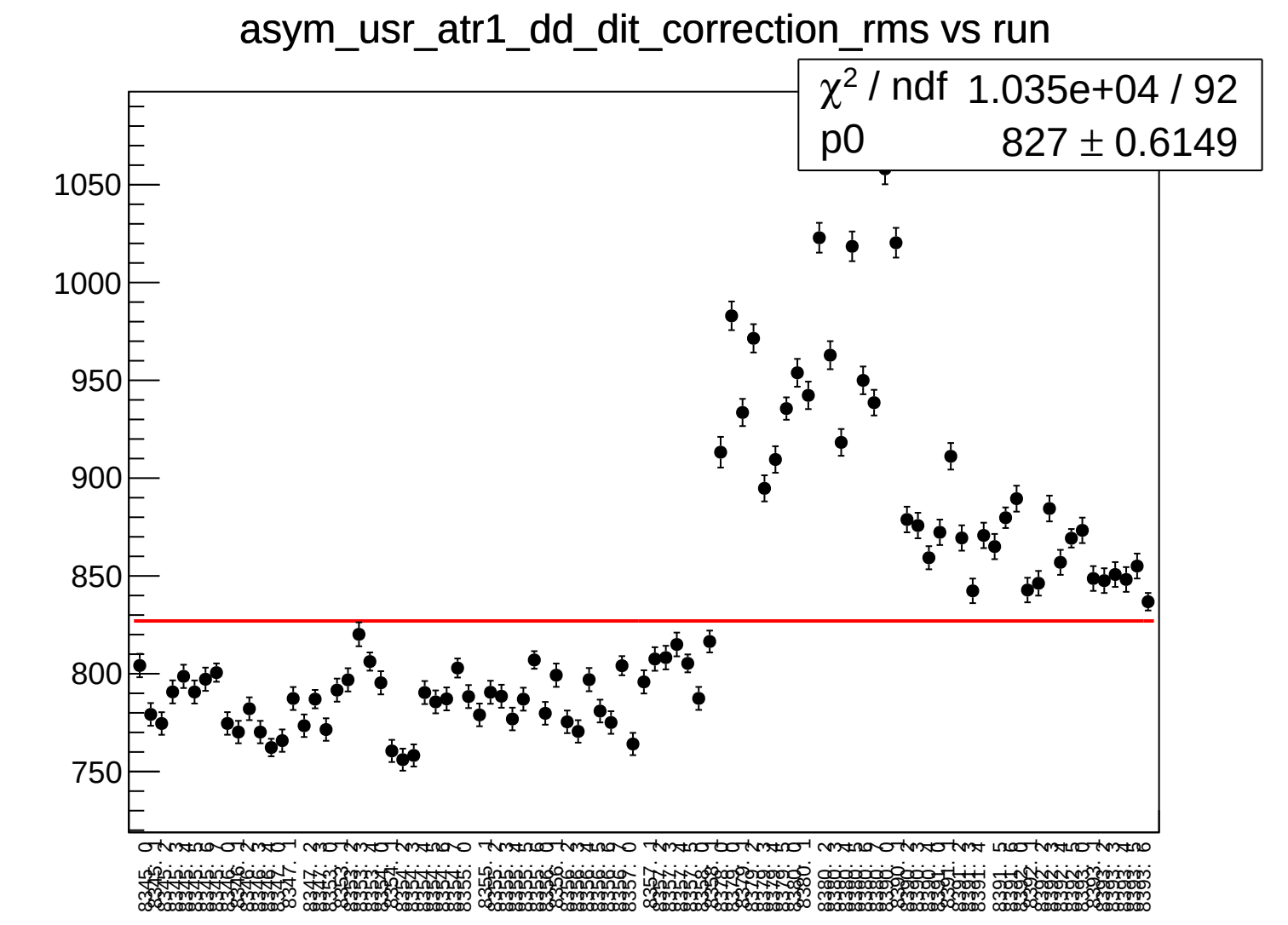

dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 110.6 / 92
p0 1571 ± 1400
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −100.5
Std Dev 0
2
1
0
−1
−2
−3

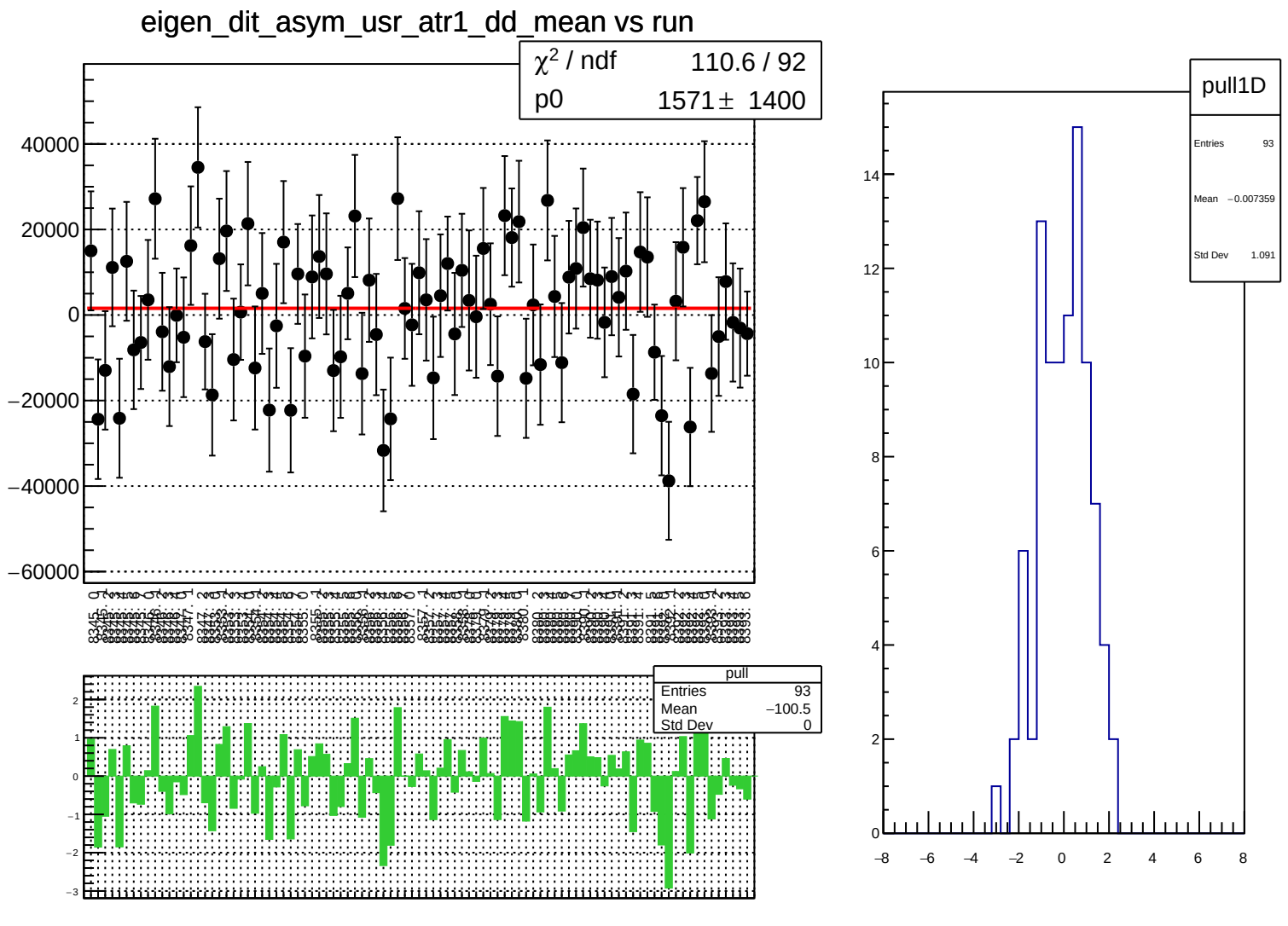

pull1D
Entries 93
Mean −0.007359
Std Dev 1.091
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

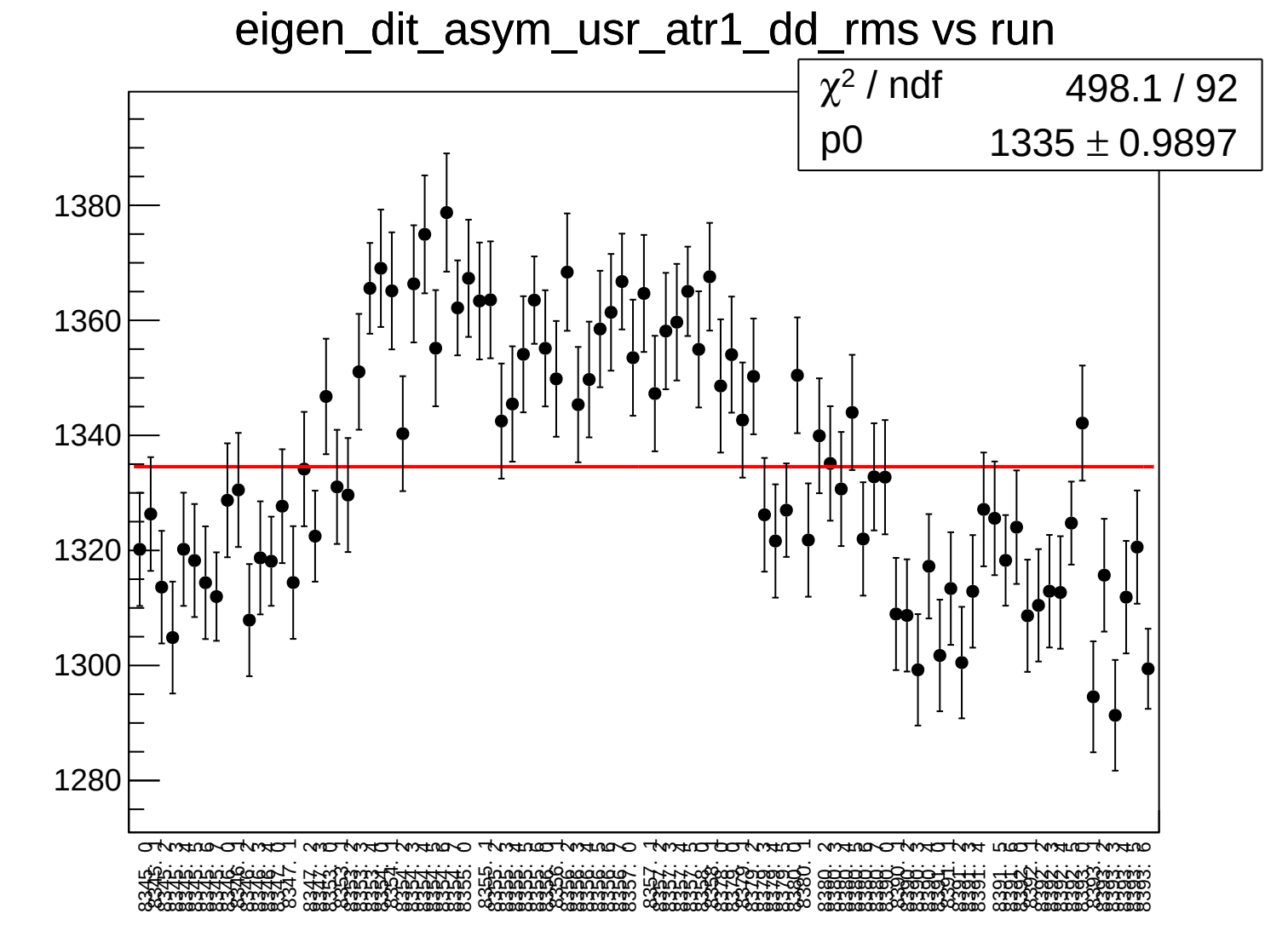

dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 498.1 / 92
p0 1335 ± 0.9897
1380
1360
1340
1320
1300
1280

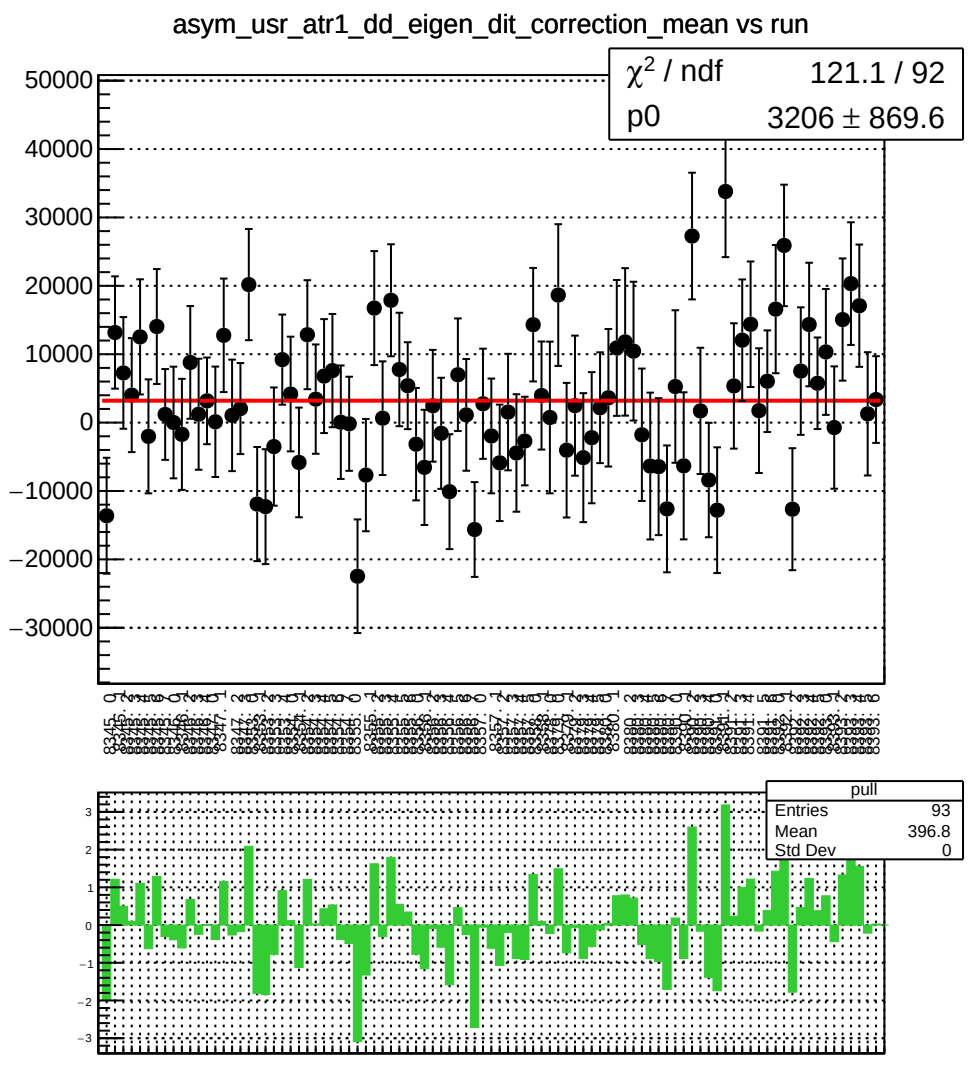

asym_usr_atr1_dd_dit_correction_mean vs run
χ² / ndf 121.1 / 92
p0 3206 ± 869.6
pull
Entries 93
Mean 396.7
Std Dev 0

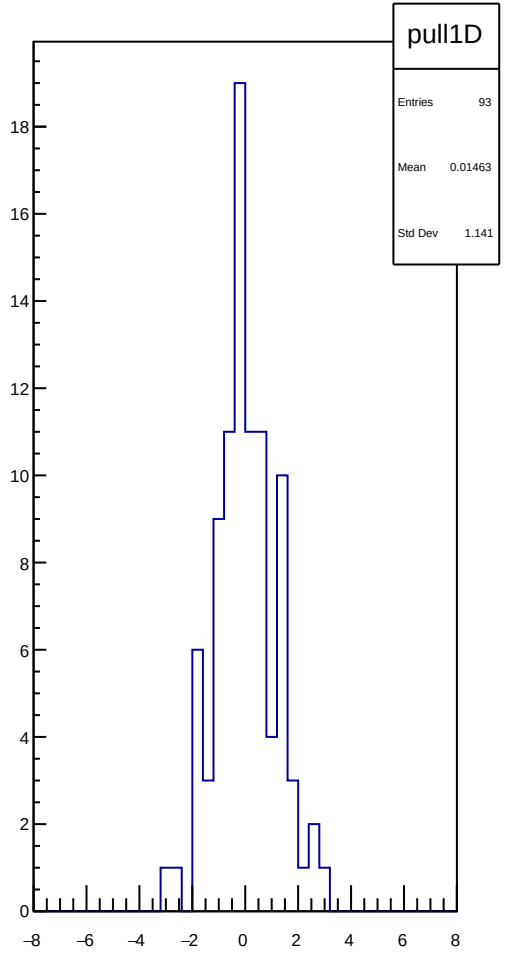

pull1D
Entries 93
Mean 0.01463
Std Dev 1.141

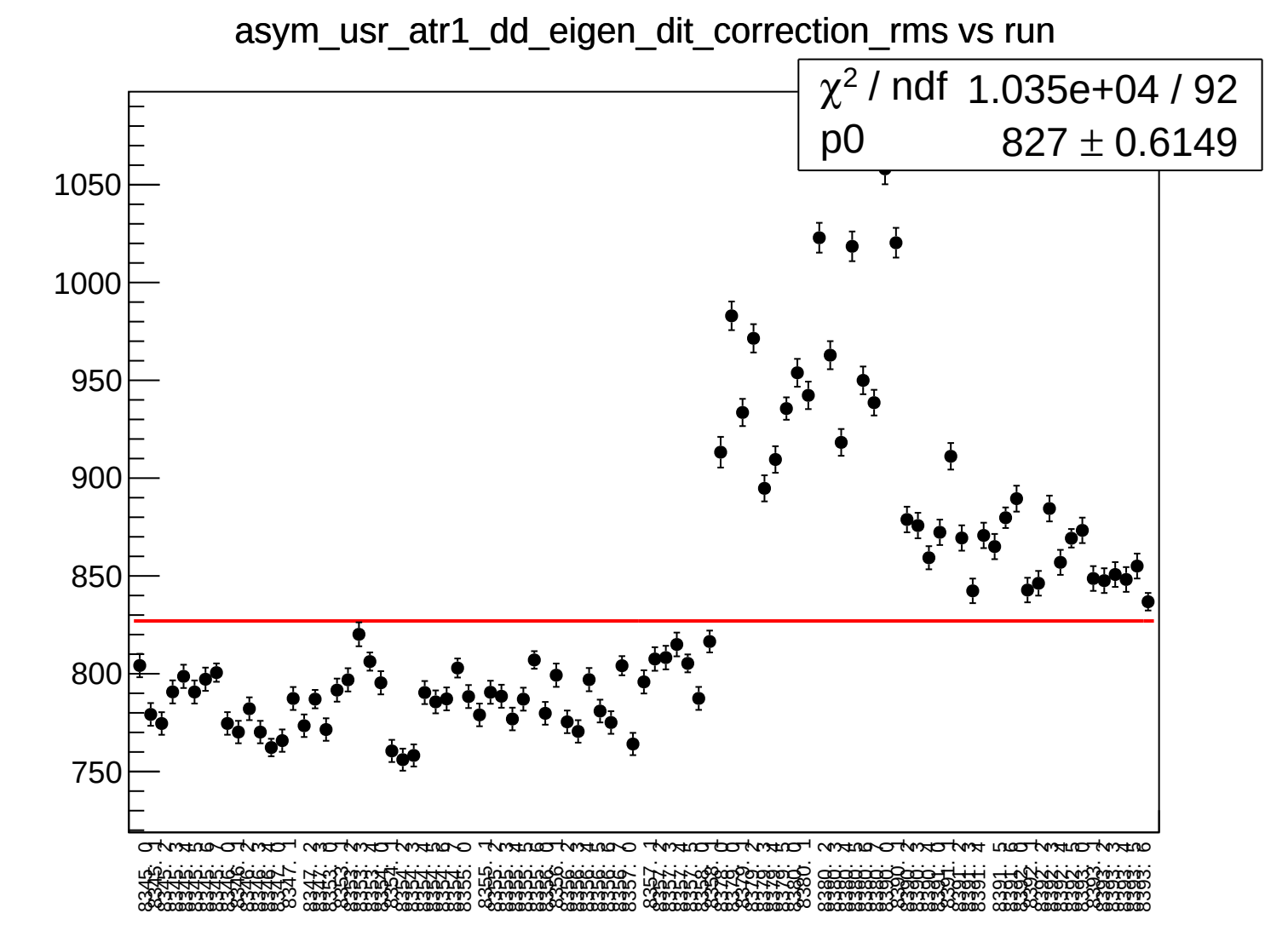

asym_usr_atr1_dd_dit_correction_rms vs run
χ² / ndf 1.035e+04 / 92
p0 827 ± 0.6149
1050
1000
950
900
850
800
750

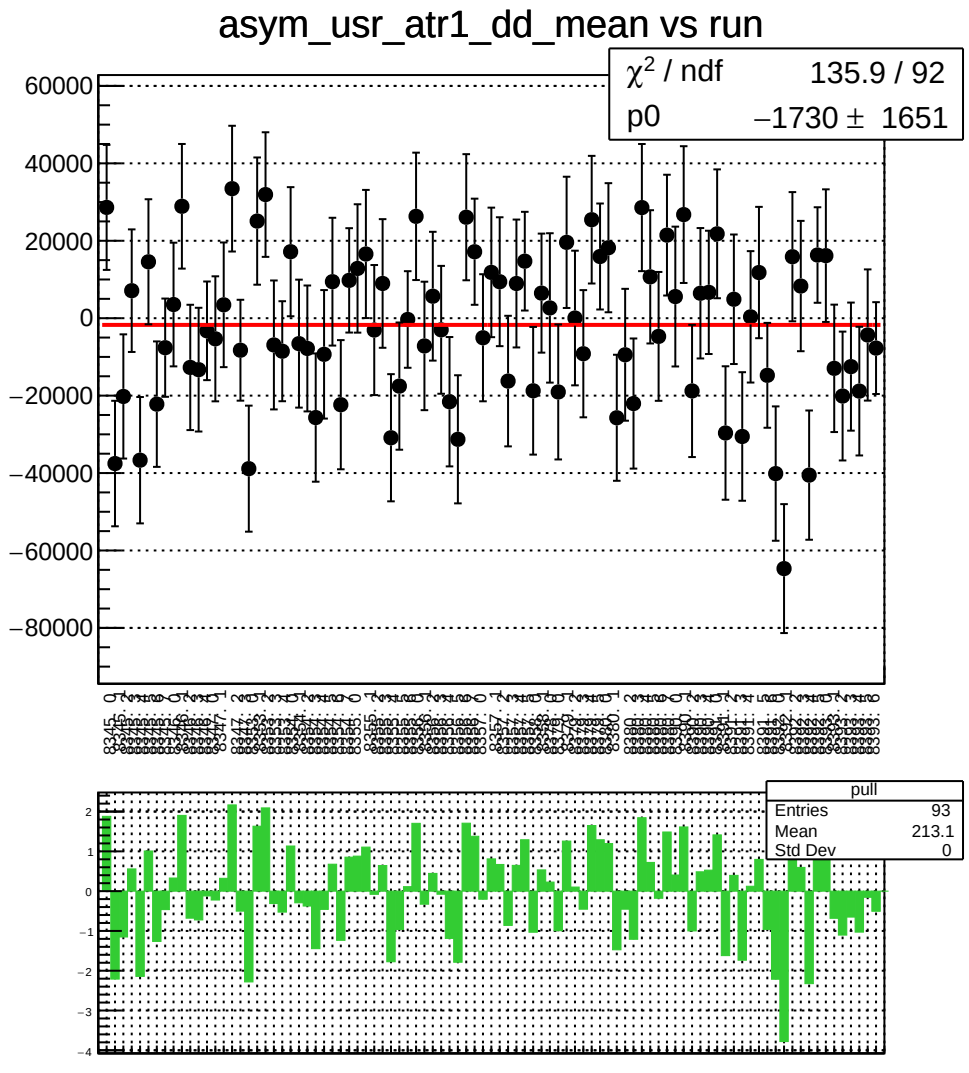

eigen_dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 110.6 / 92
p0 1571 ± 1400
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −100.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.007359
Std Dev 1.091
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

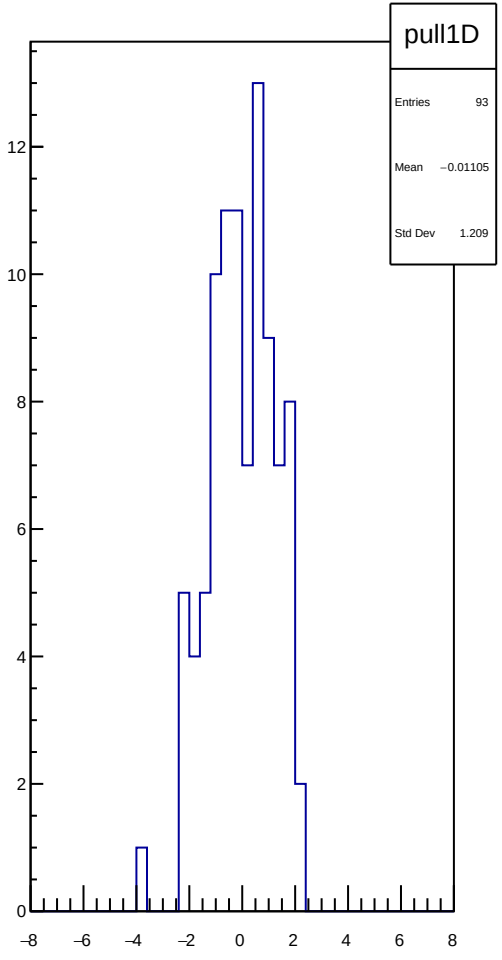

eigen_dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 498.1 / 92
p0 1335 ± 0.9897
1380
1360
1340
1320
1300
1280

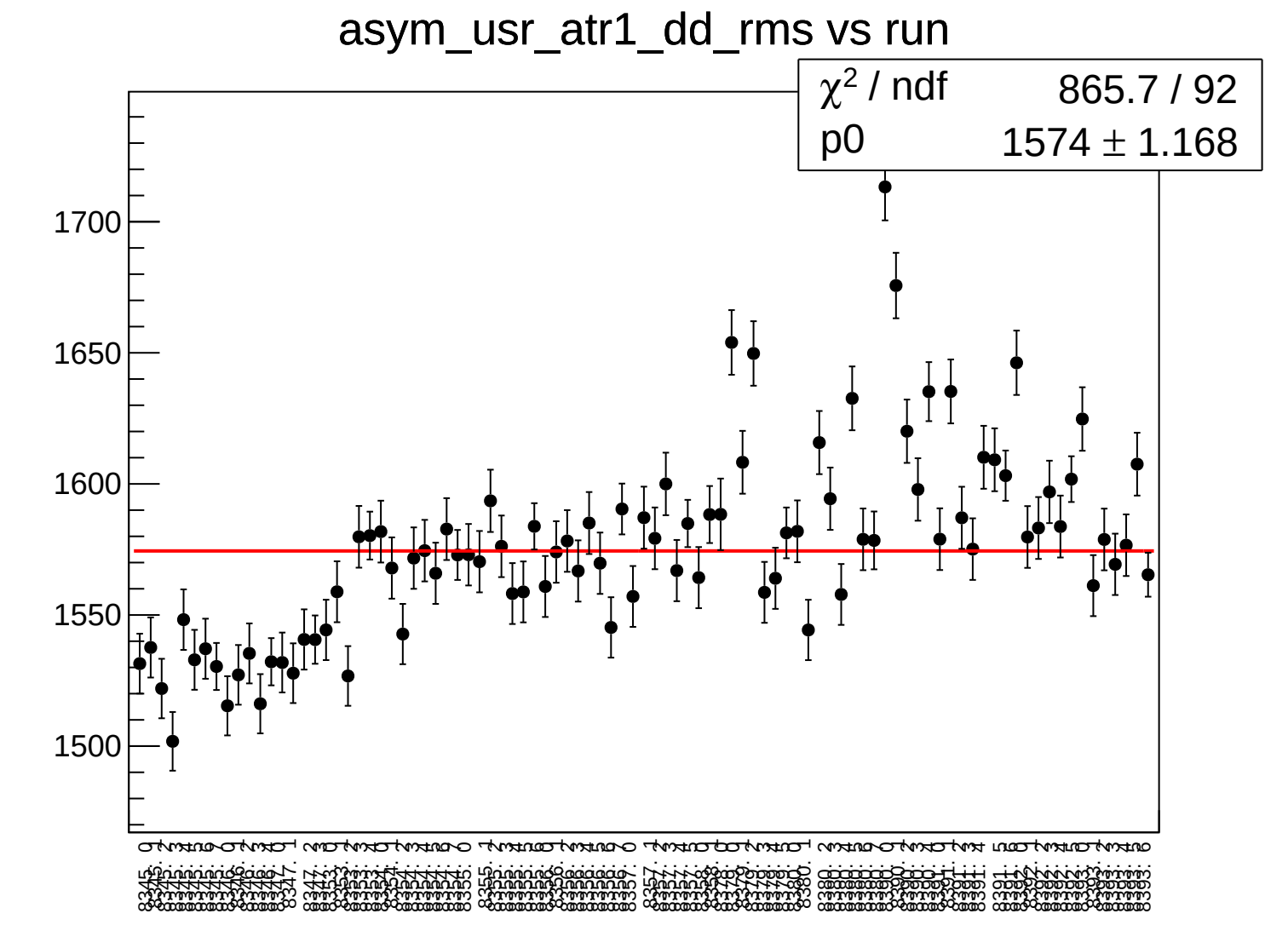

asym_usr_atr1_dd_eigen_dit_correction_mean vs run
χ² / ndf 121.1 / 92
p0 3206 ± 869.6
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean 396.8
Std Dev 0
3
2
1
0
−1
−2
−3

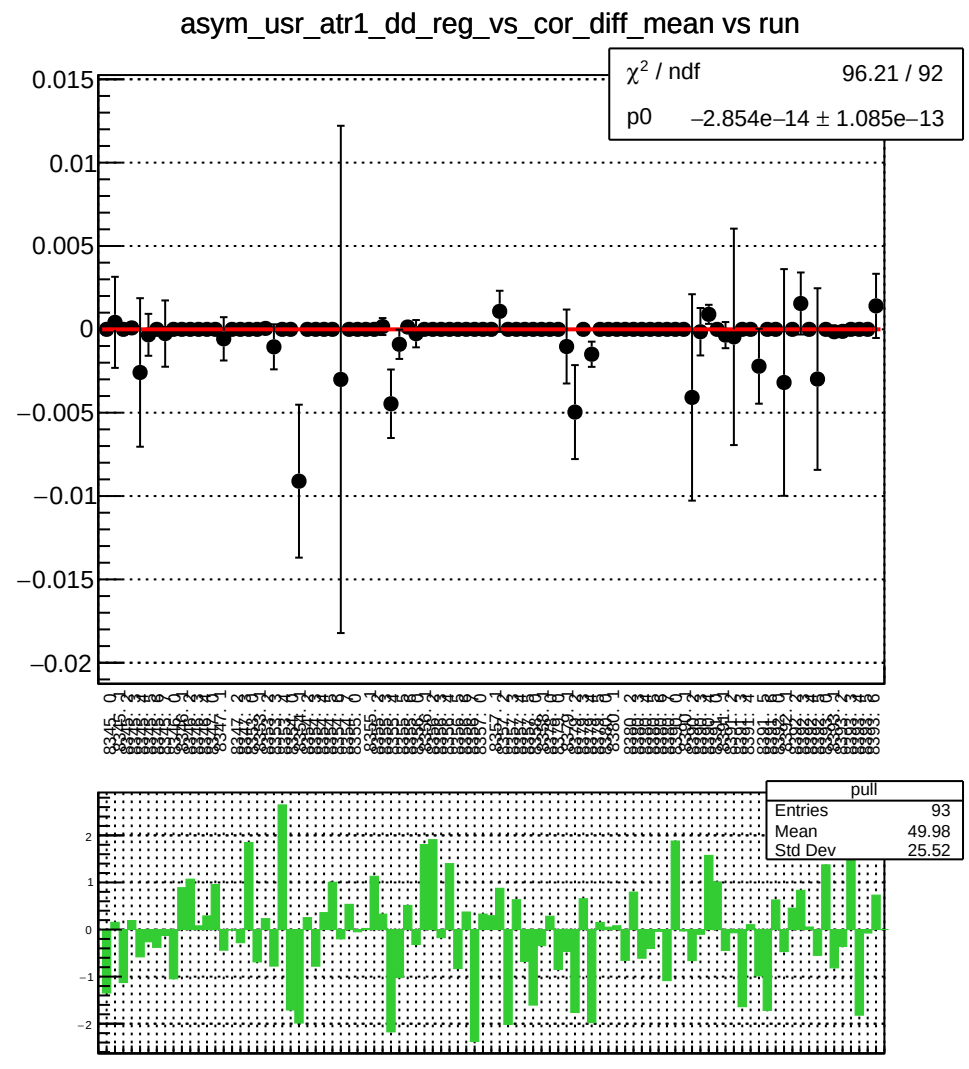

pull1D
Entries 93
Mean 0.01463
Std Dev 1.141
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

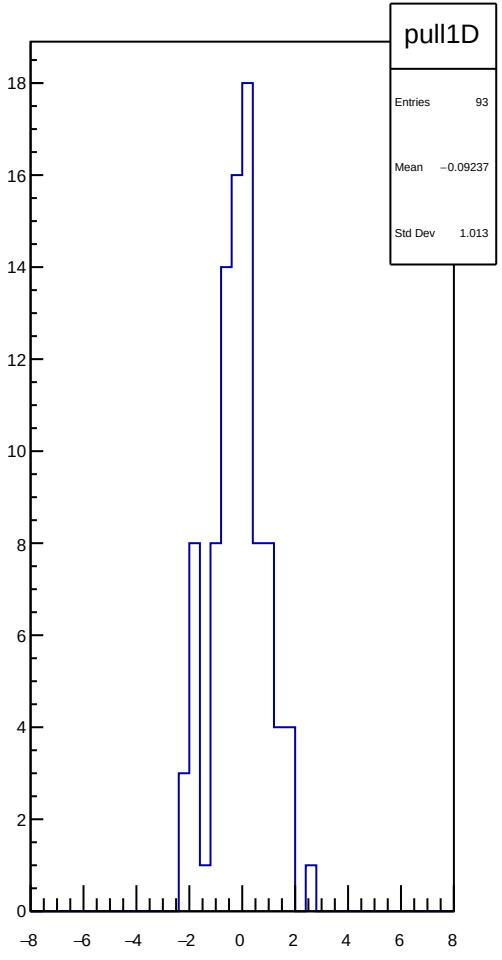

asym_usr_atr1_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.035e+04 / 92
p0 827 ± 0.6149
1050
1000
950
900
850
800
750

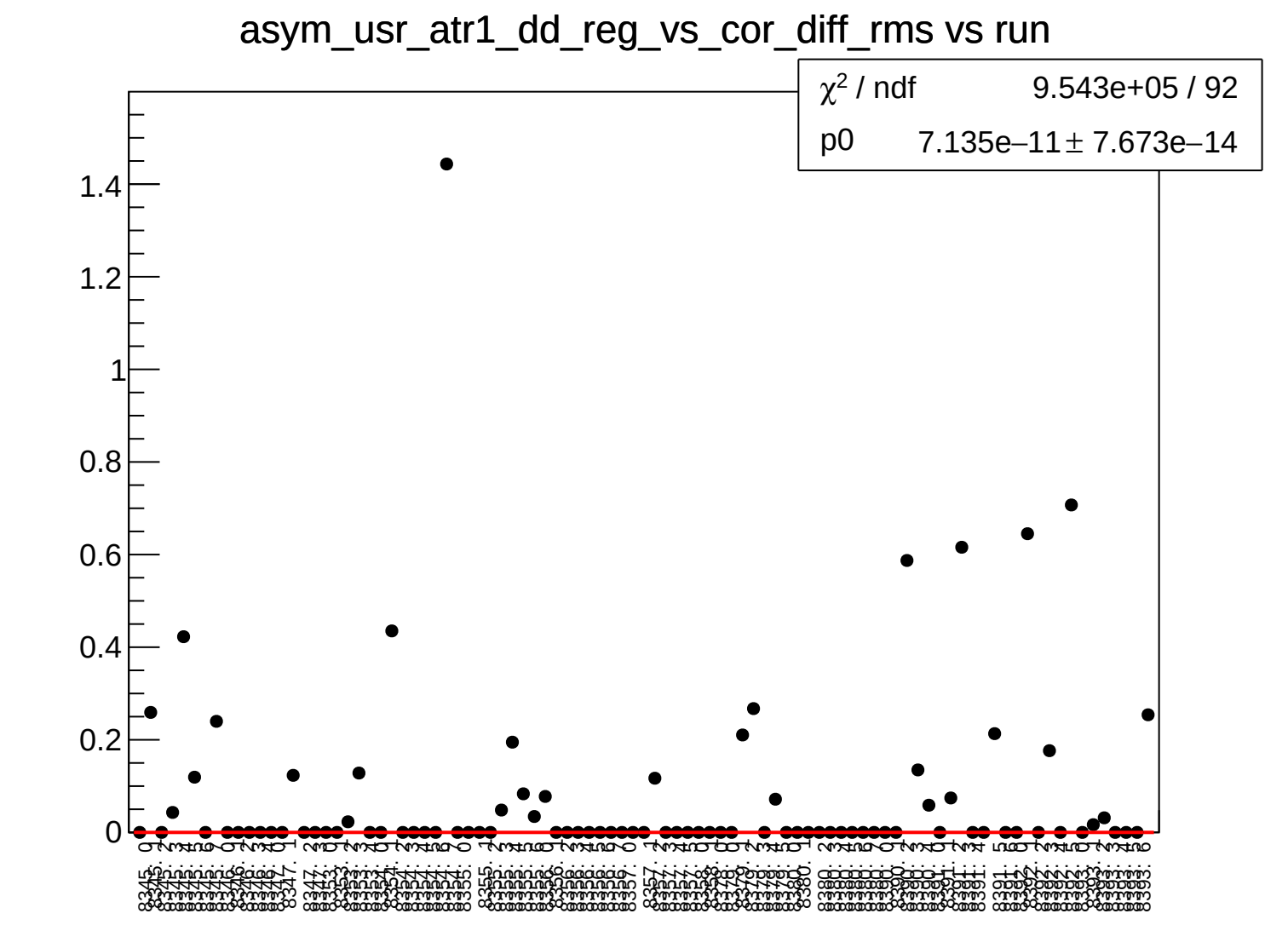

asym_usr_atr1_dd_mean vs run
χ² / ndf 135.9 / 92
p0 −1730 ± 1651
pull
Entries 93
Mean 213.1
Std Dev 0

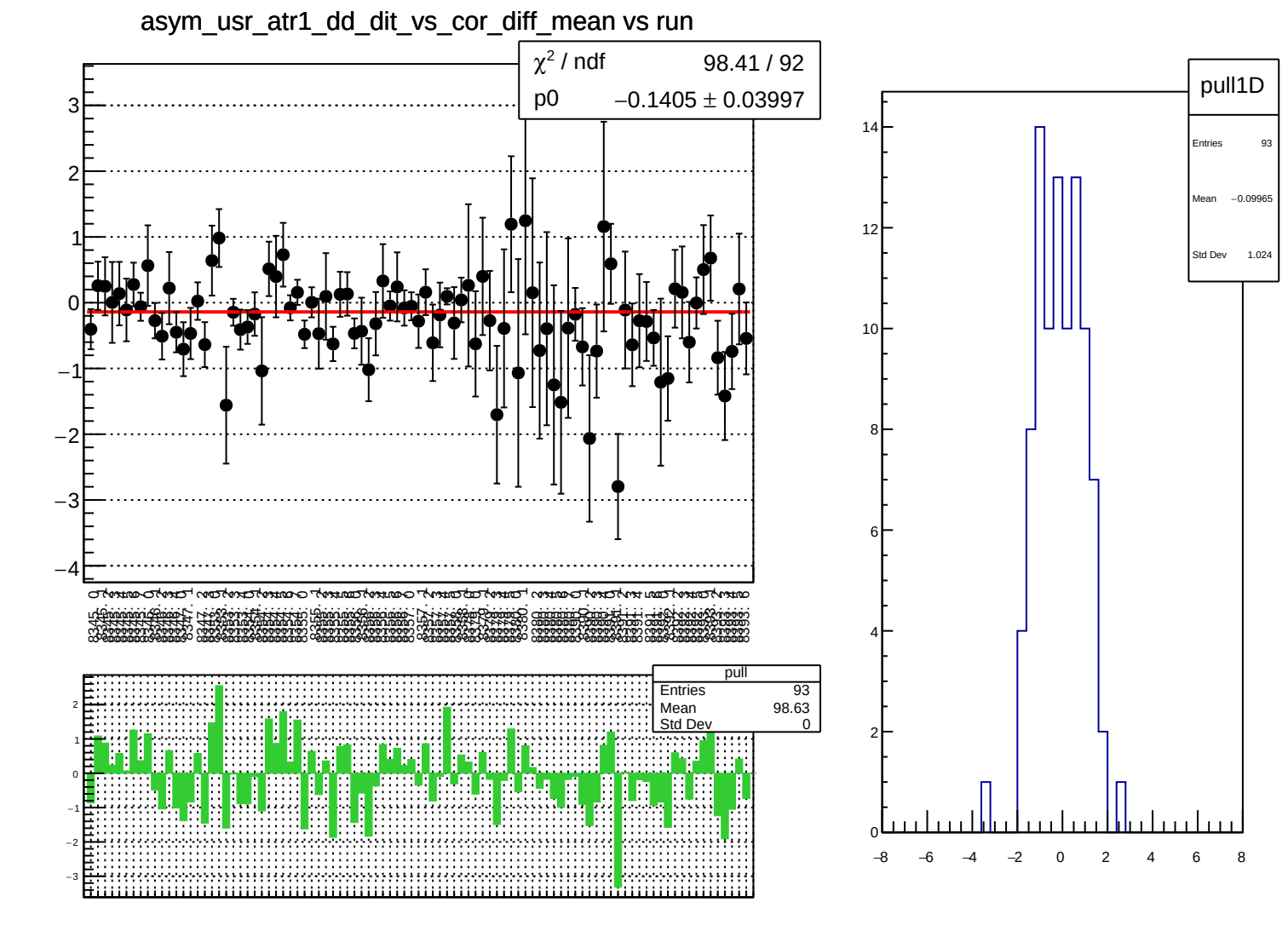

pull1D
Entries 93
Mean −0.01105
Std Dev 1.209

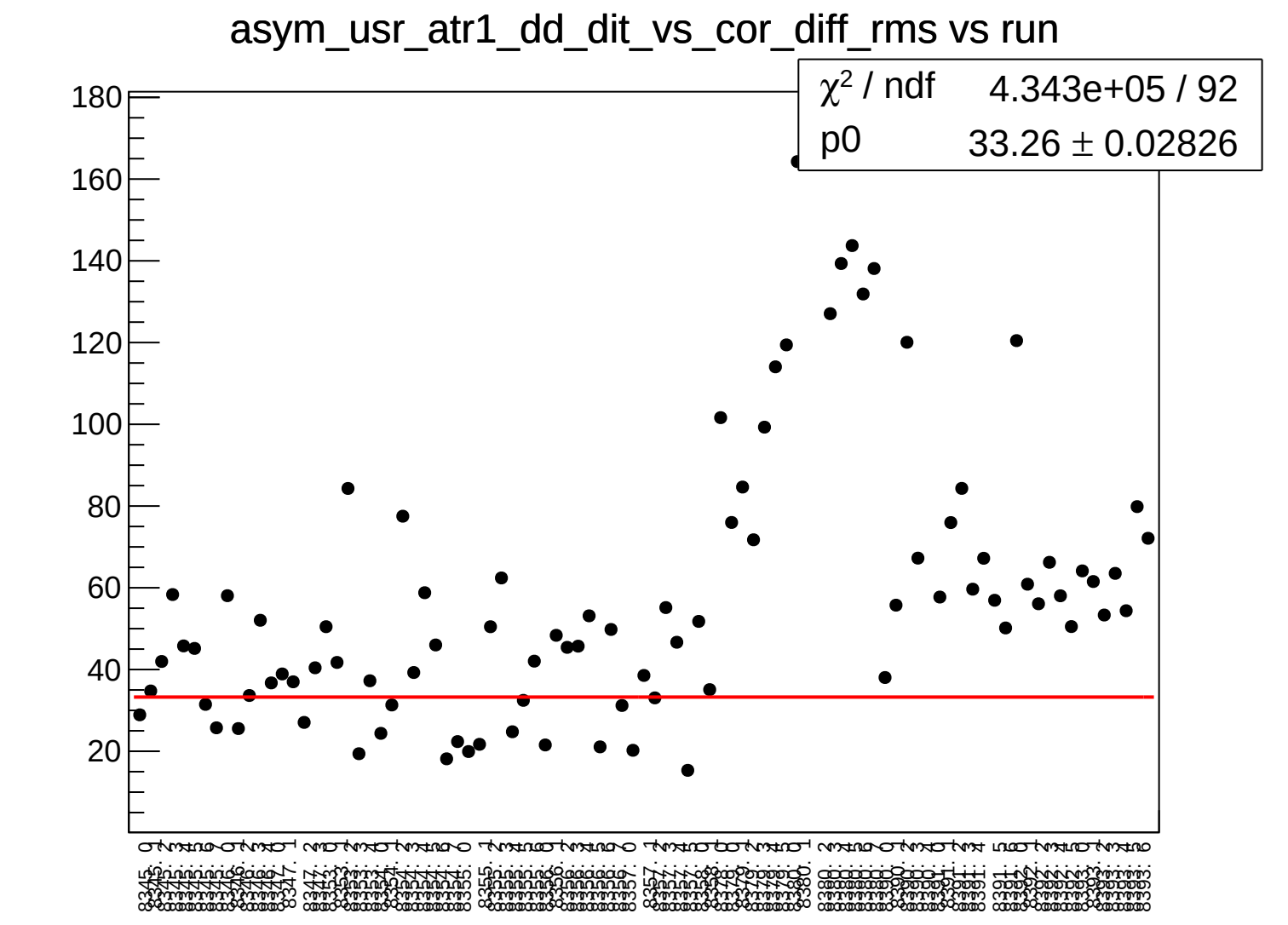

asym_usr_atr1_dd_rms vs run
χ² / ndf 865.7 / 92
p0 1574 ± 1.168
1700
1650
1600
1550
1500

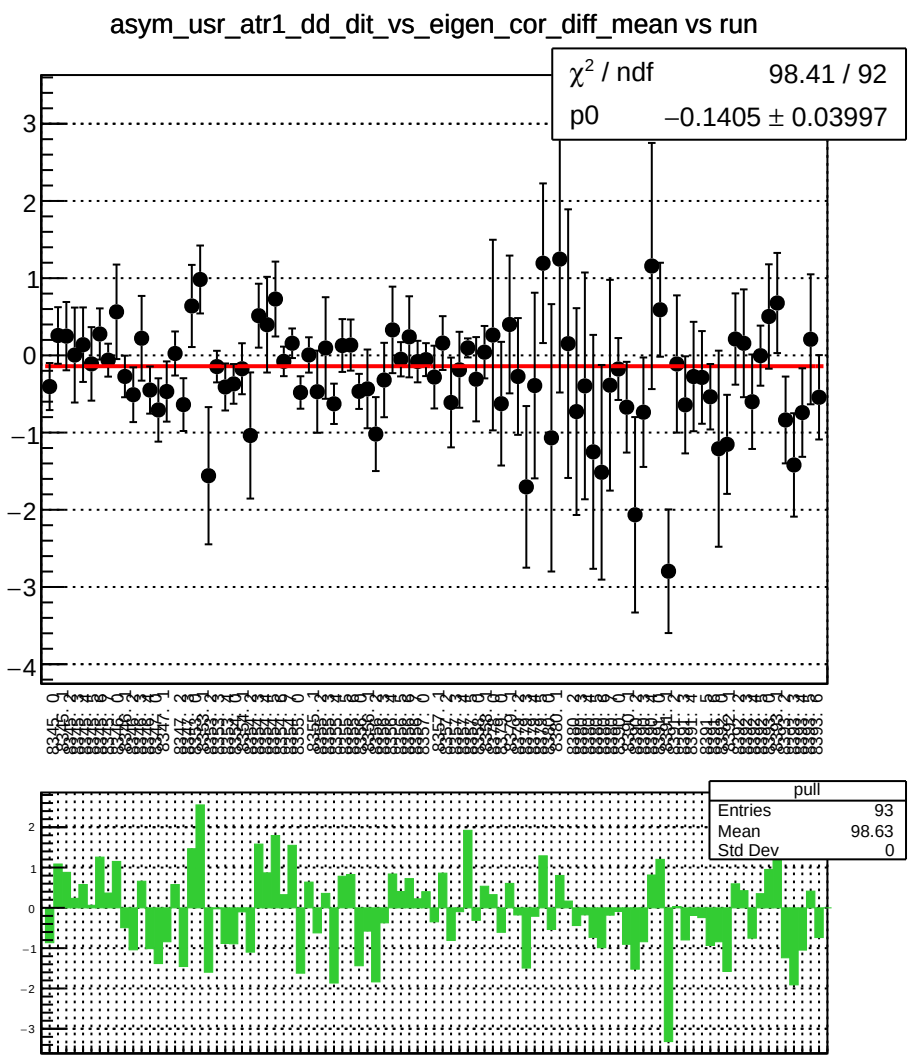

asym_usr_atr1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 96.21 / 92
p0 −2.854e−14 ± 1.085e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 93
Mean 49.98
Std Dev 25.52
2
1
0
−1
−2

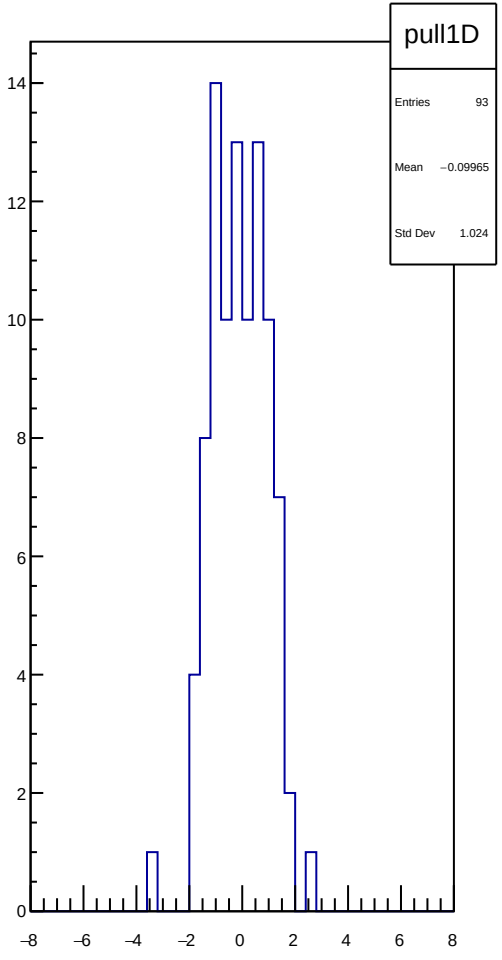

pull1D
Entries 93
Mean −0.09237
Std Dev 1.013
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

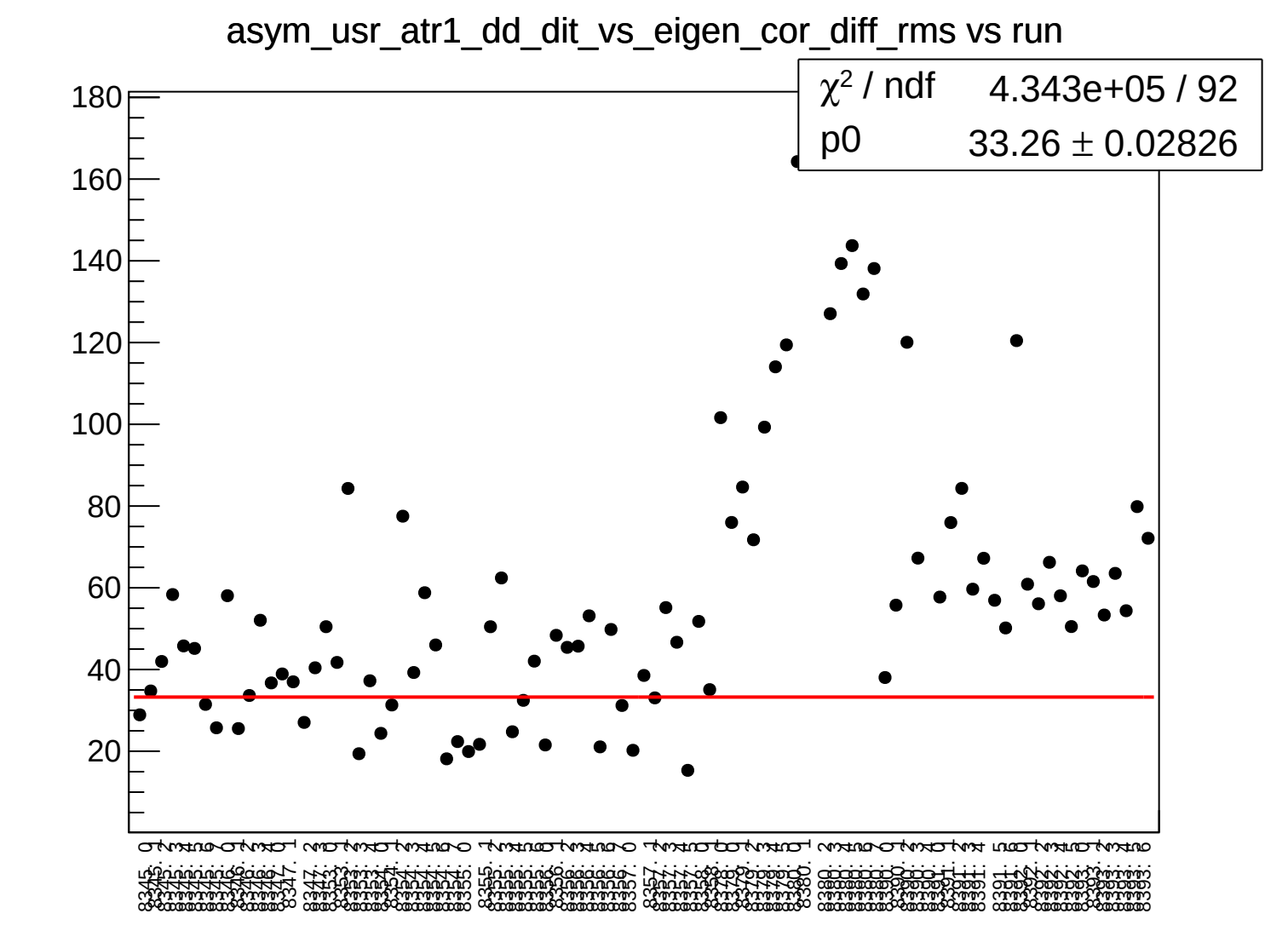

asym_usr_atr1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.543e+05 / 92
p0 7.135e−11 ± 7.673e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

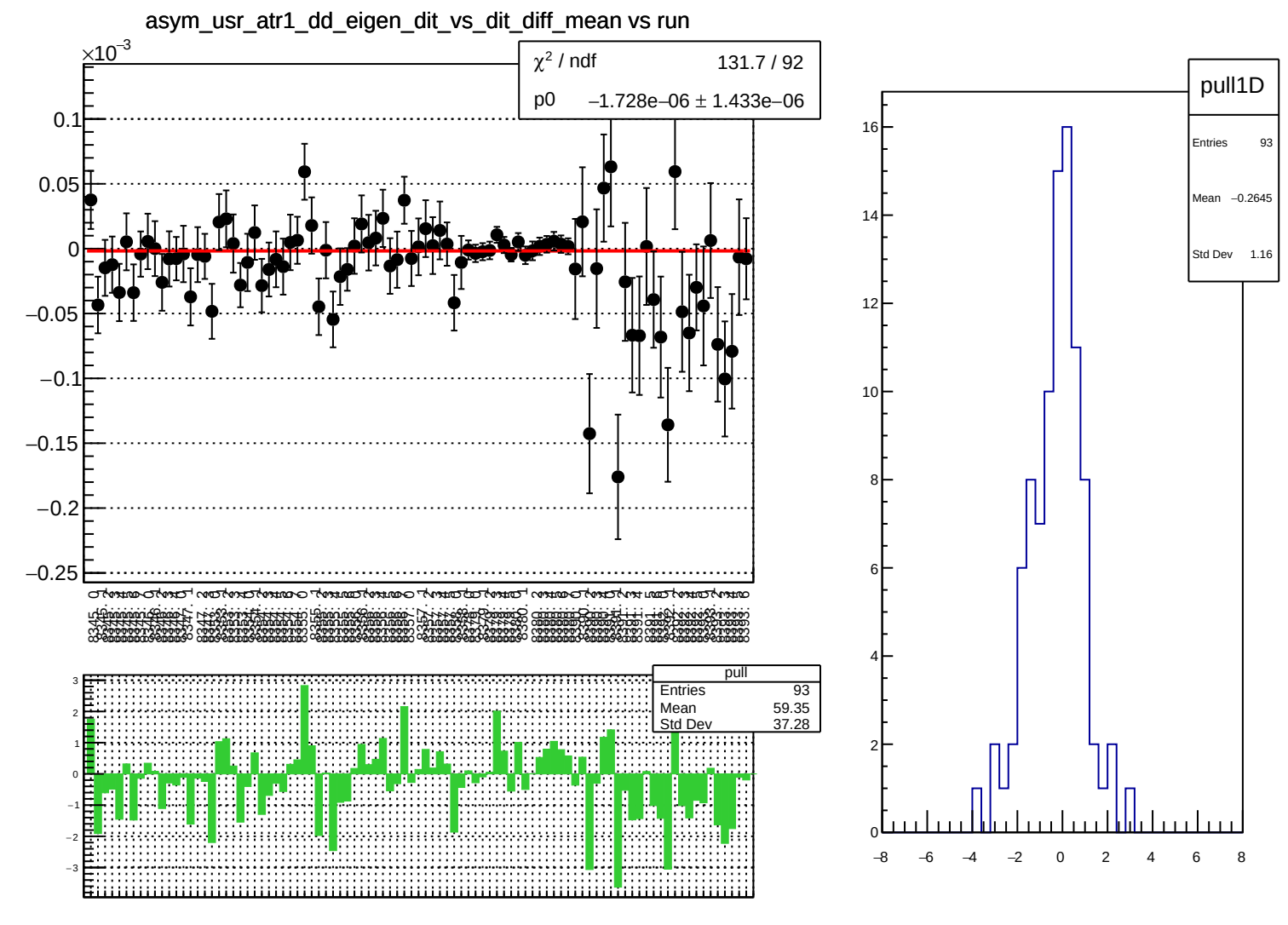

asym_usr_atr1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 98.41 / 92
p0 −0.1405 ± 0.03997
pull
Entries 93
Mean 98.63
Std Dev 0
pull1D
Entries 93
Mean −0.09965
Std Dev 1.024

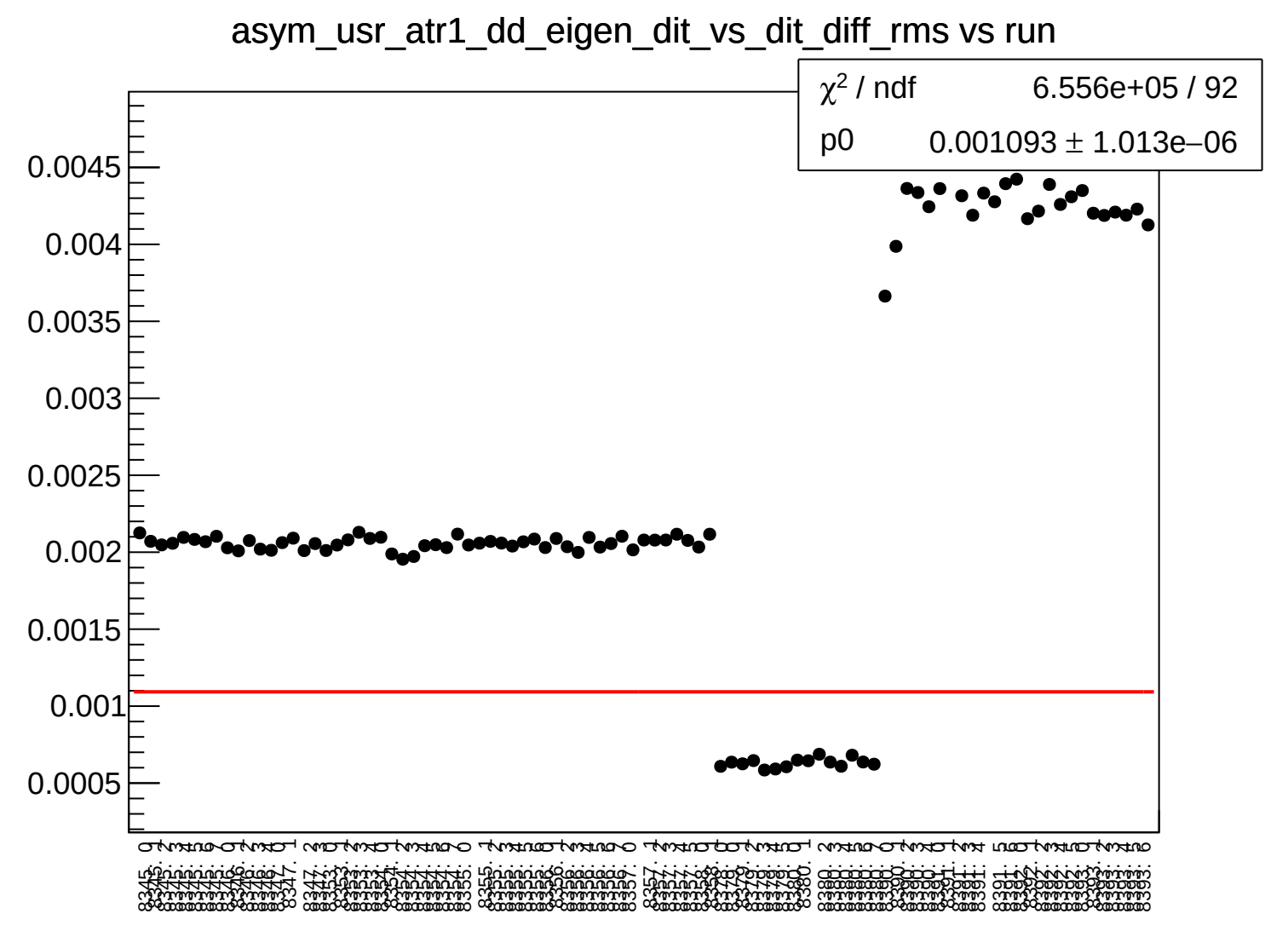

asym_usr_atr1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.343e+05 / 92
p0 33.26 ± 0.02826
180
160
140
120
100
80
60
40
20

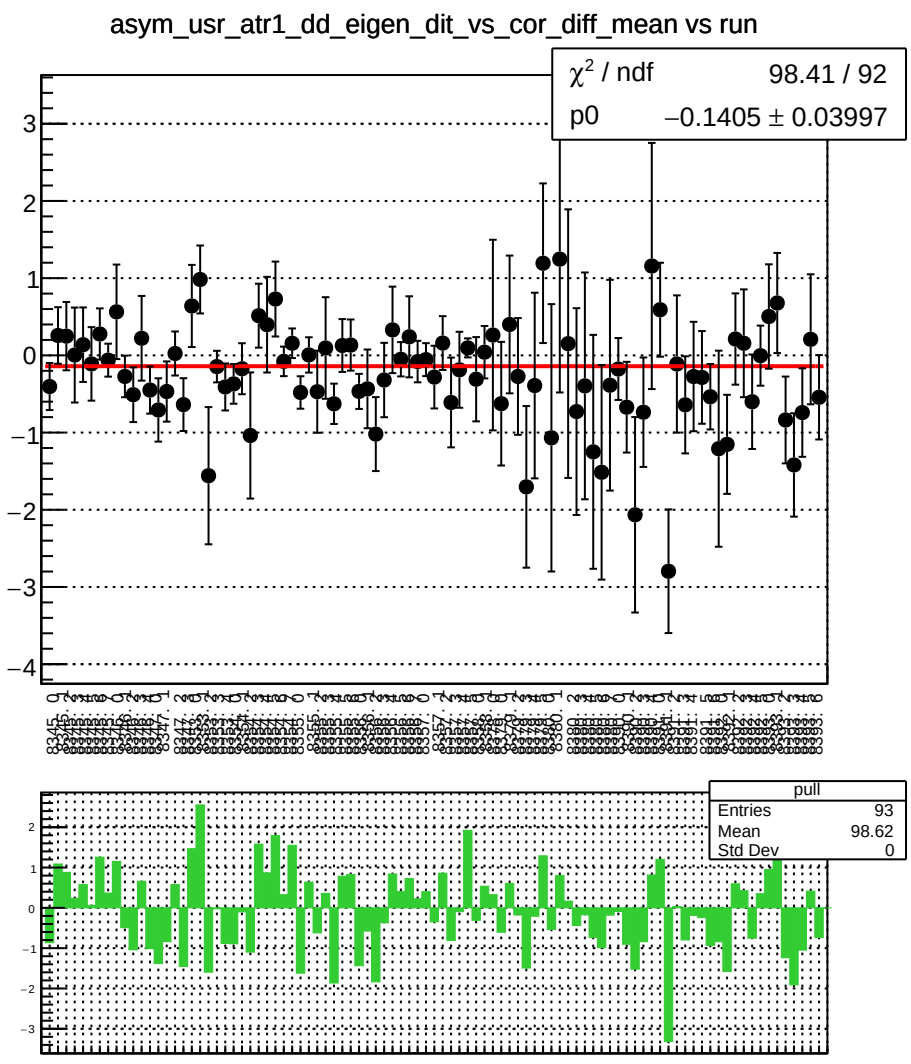

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.41 / 92
p0 −0.1405 ± 0.03997
pull
Entries 93
Mean 98.63
Std Dev 0

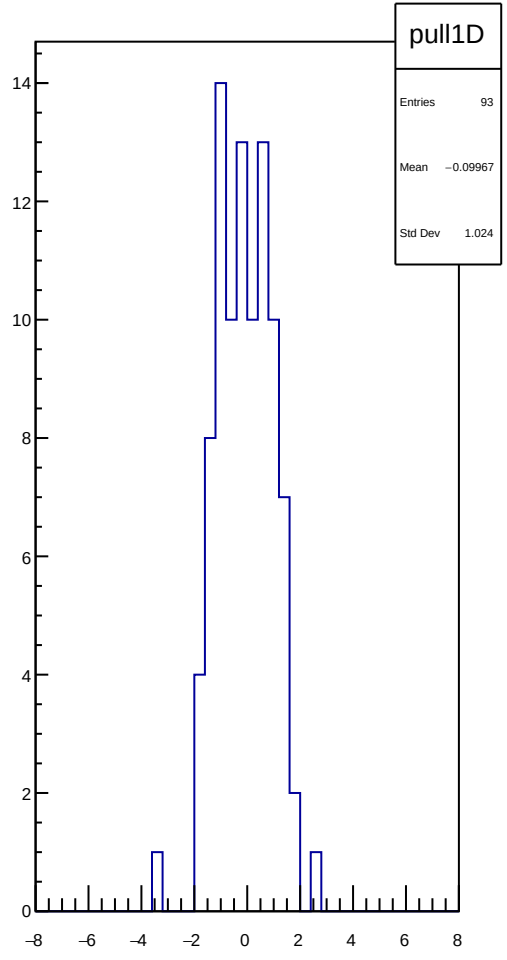

pull1D
Entries 93
Mean −0.09965
Std Dev 1.024

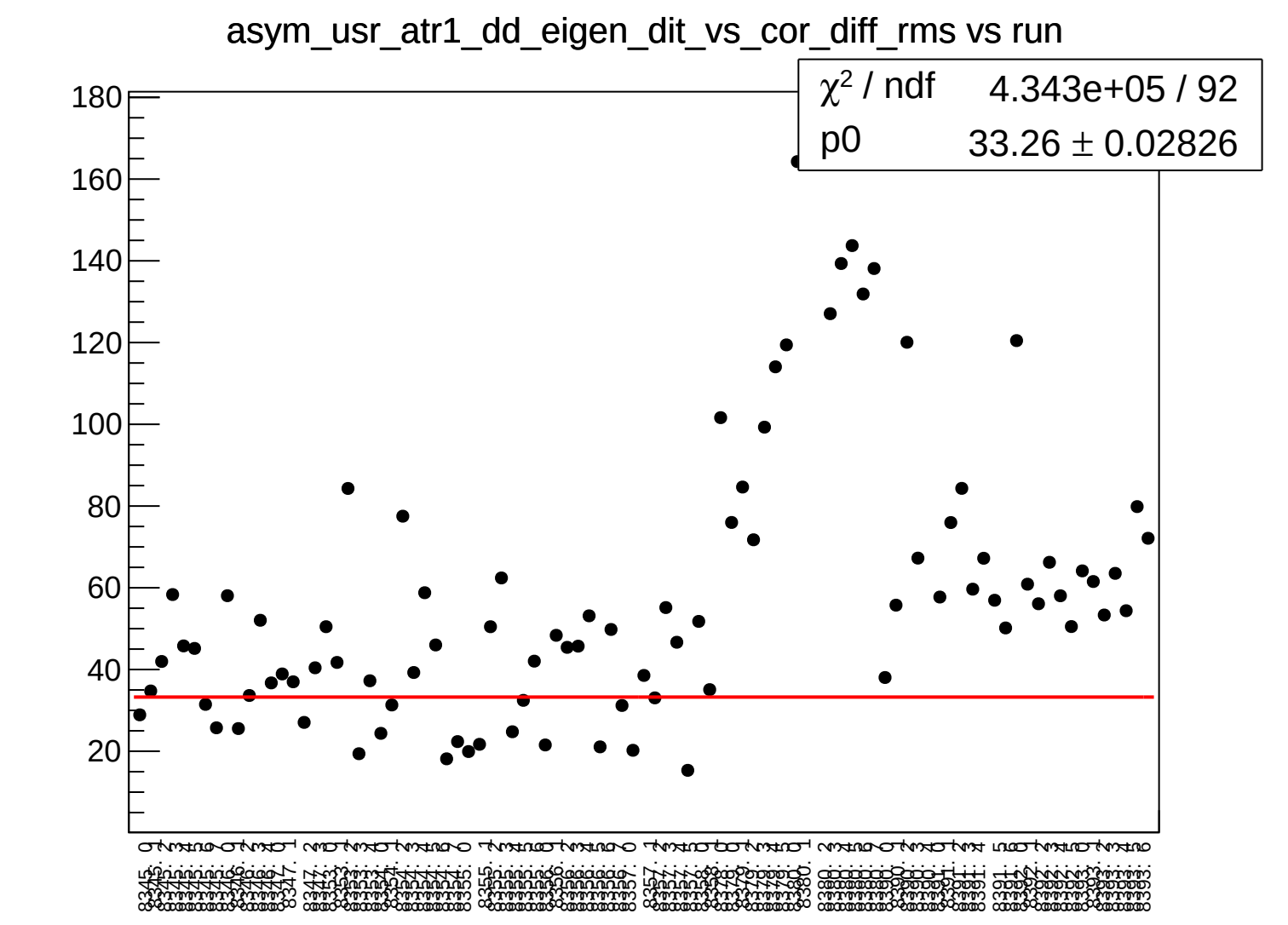

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.343e+05 / 92
p0 33.26 ± 0.02826
180
160
140
120
100
80
60
40
20

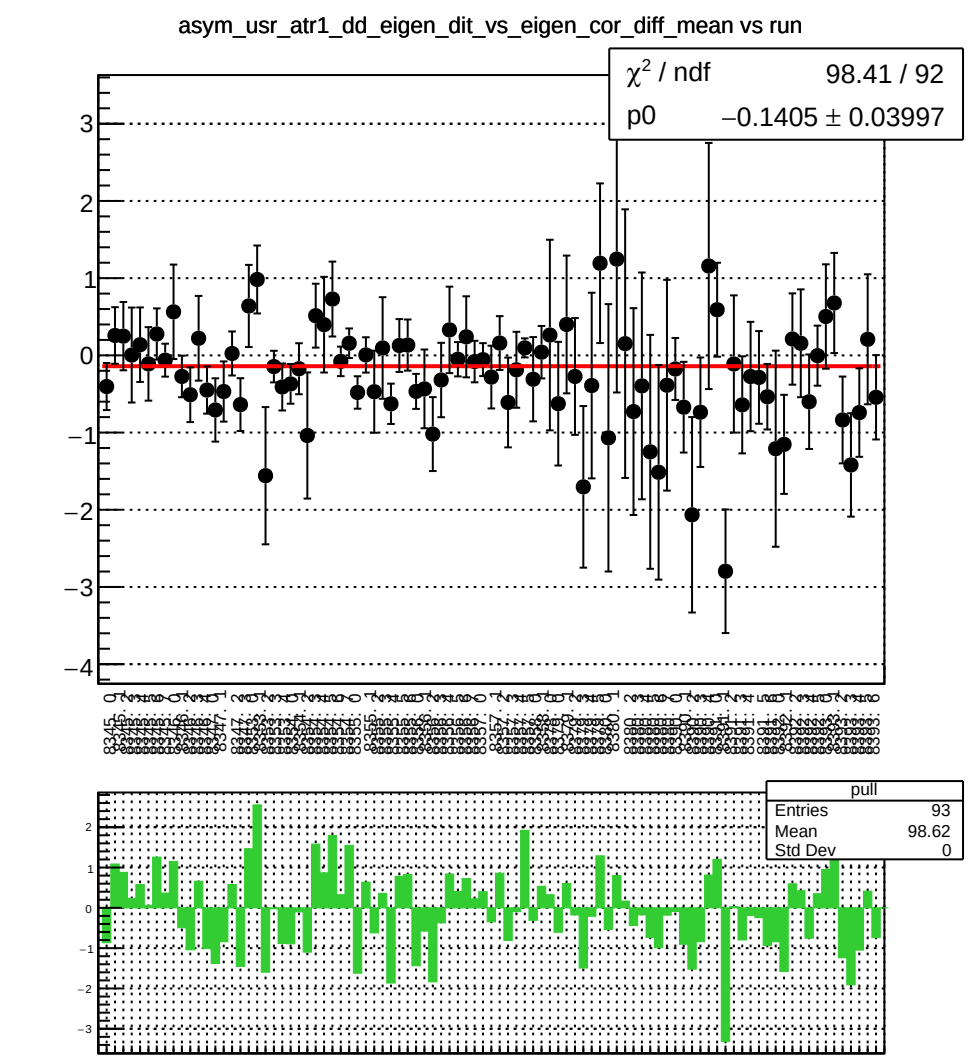

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 131.7 / 92
p0 −1.728e−06 ± 1.433e−06
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25
pull
Entries 93
Mean 59.35
Std Dev 37.28
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.2645
Std Dev 1.16
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

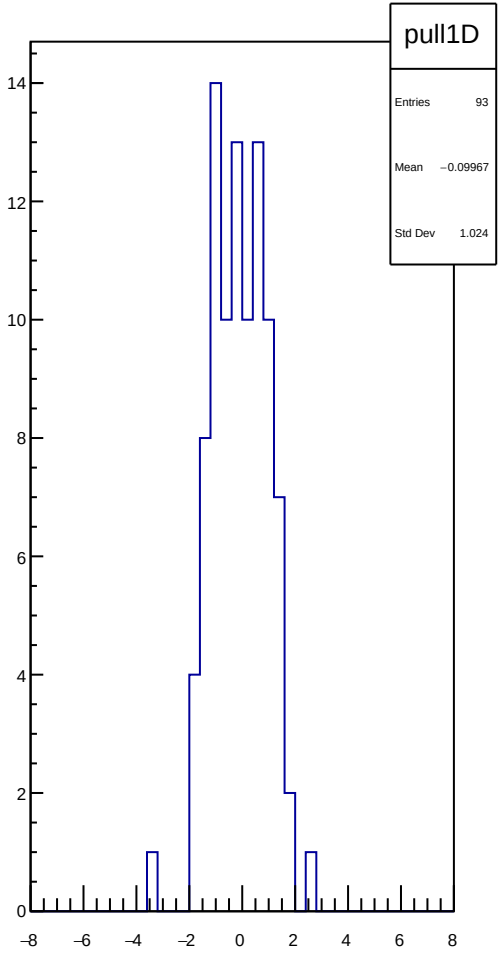

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.556e+05 / 92
p0 0.001093 ± 1.013e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005

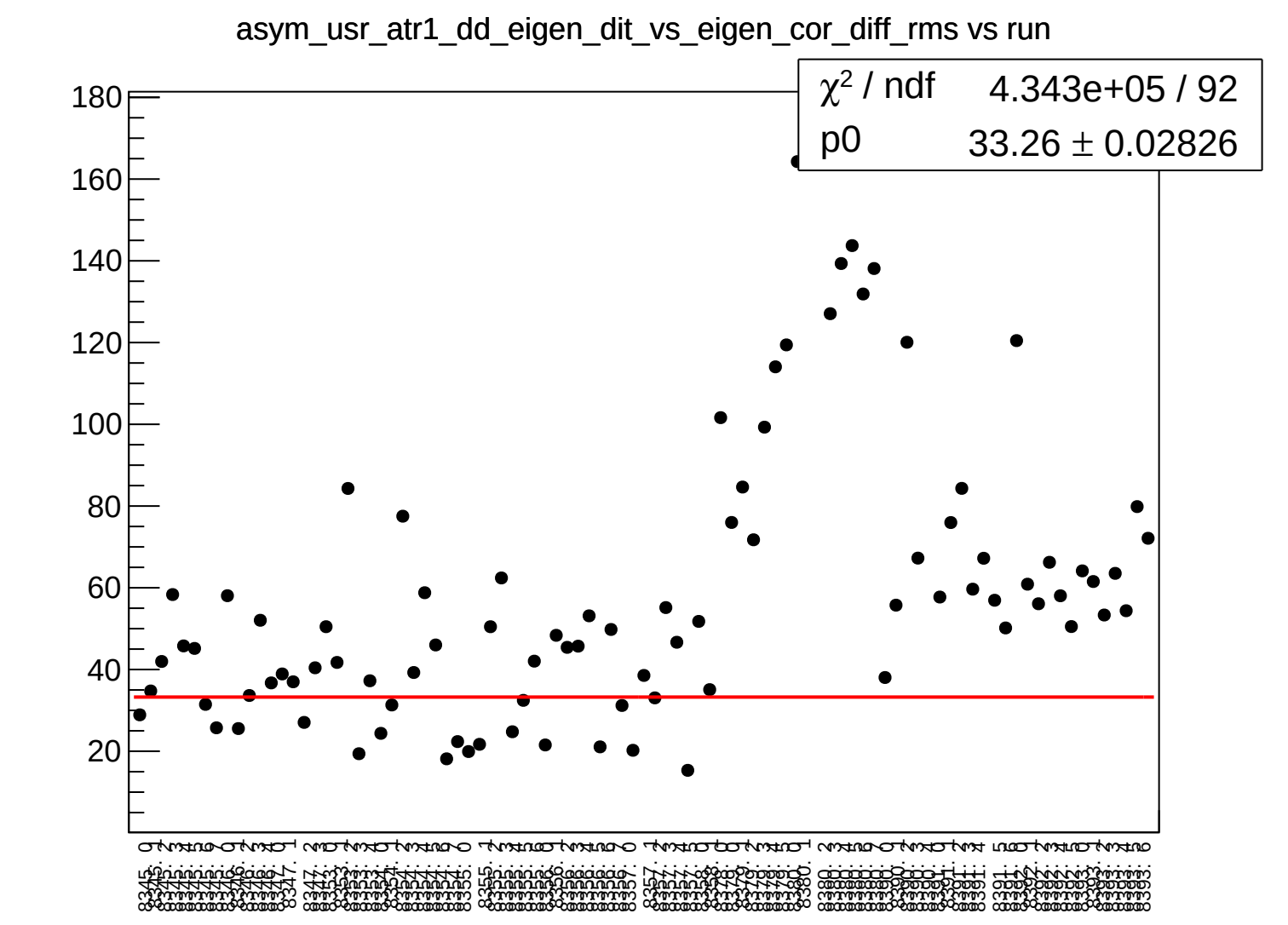

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 98.41 / 92
p0 −0.1405 ± 0.03997
pull
Entries 93
Mean 98.62
Std Dev 0

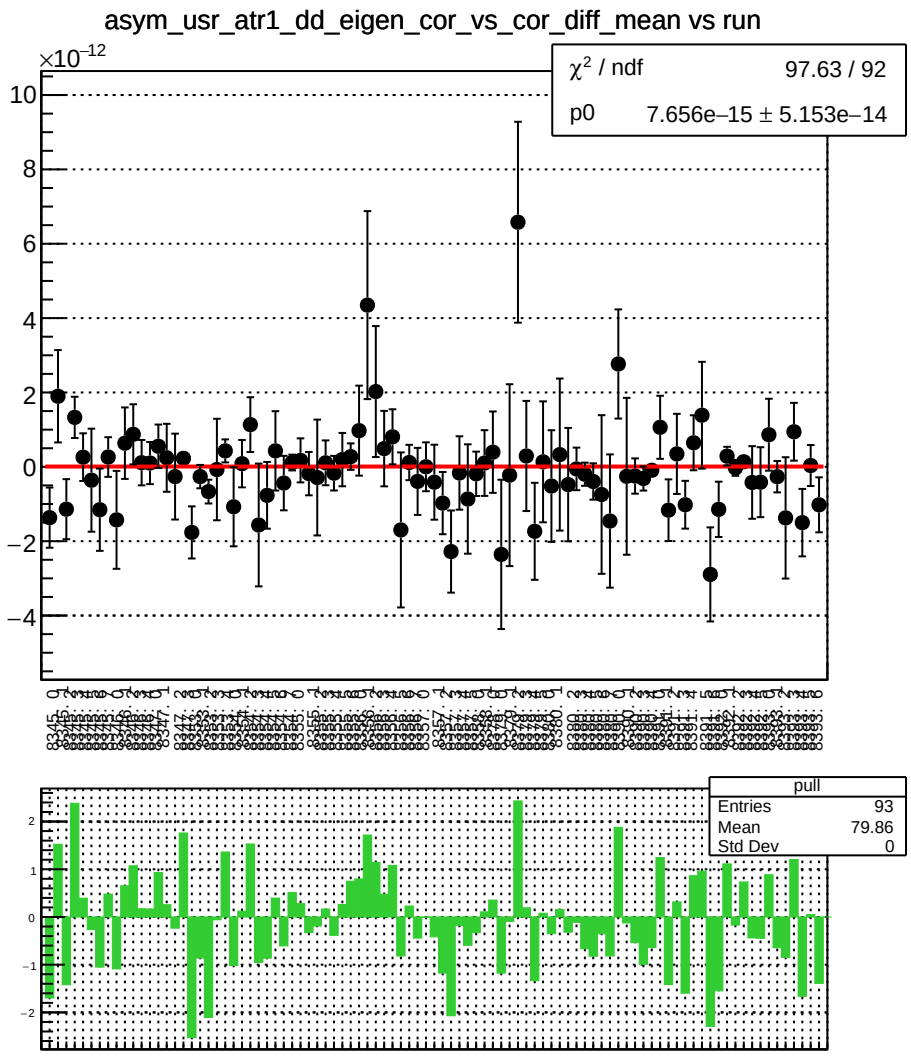

pull1D
Entries 93
Mean −0.09967
Std Dev 1.024

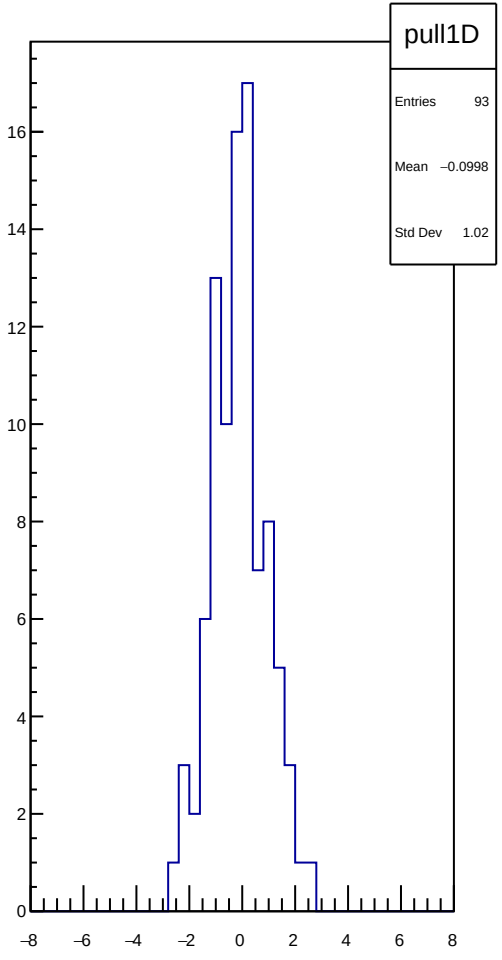

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.343e+05 / 92
p0 33.26 ± 0.02826
180
160
140
120
100
80
60
40
20

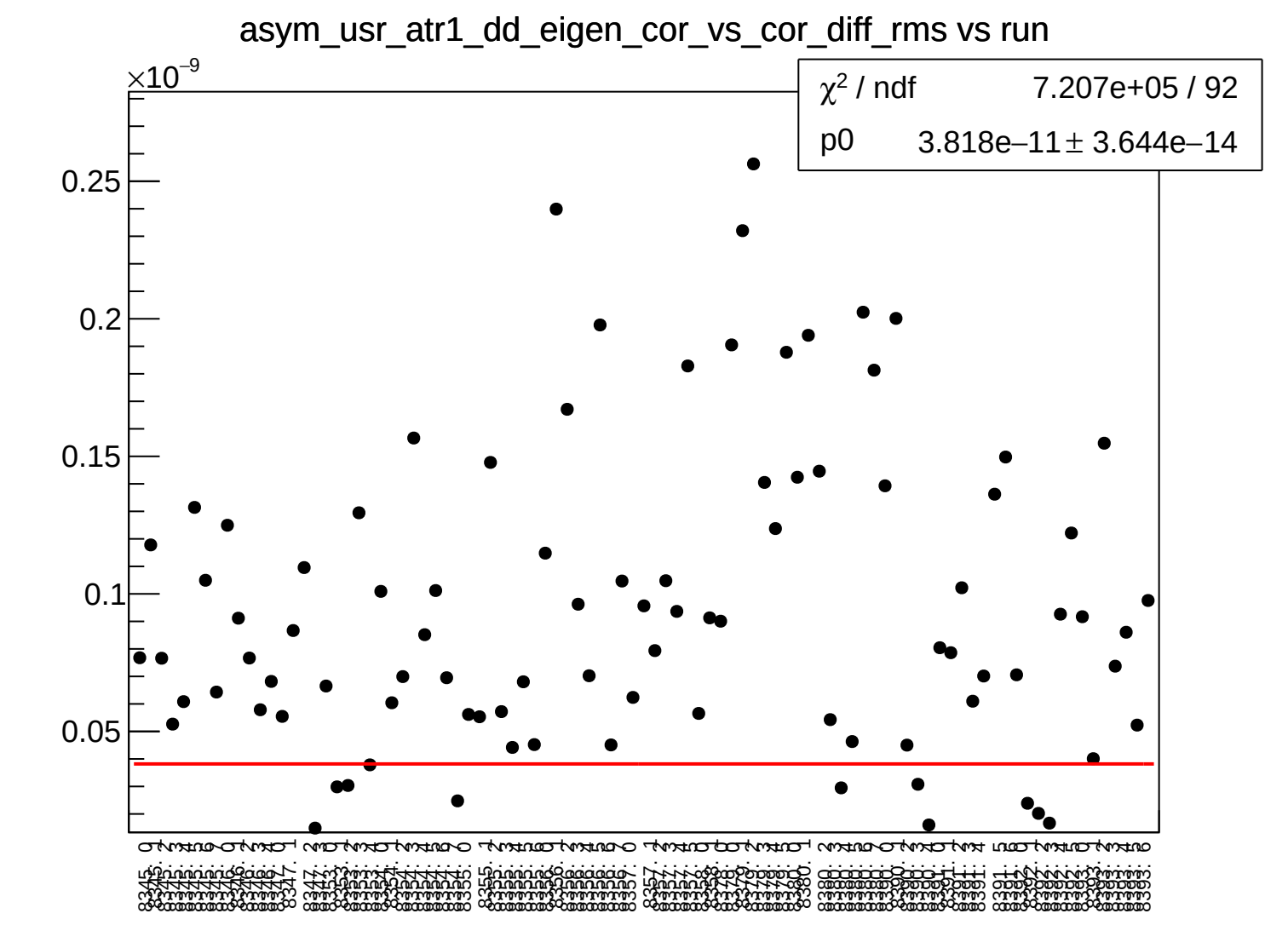

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.41 / 92
p0 −0.1405 ± 0.03997
pull
Entries 93
Mean 98.62
Std Dev 0

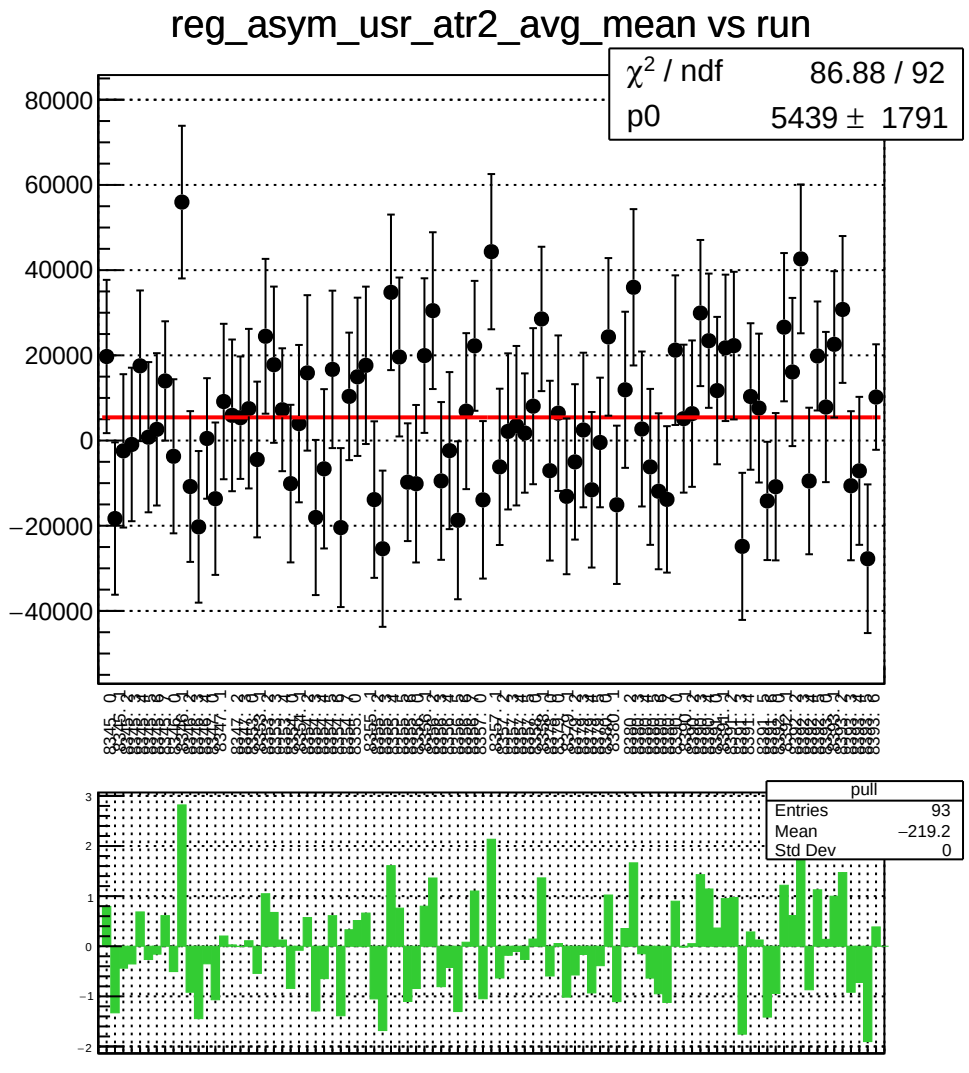

pull1D
Entries 93
Mean −0.09967
Std Dev 1.024

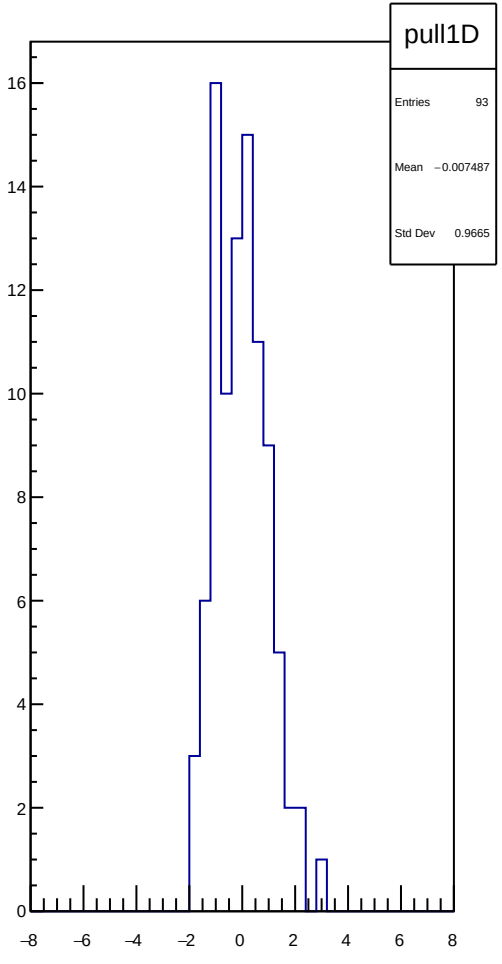

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.343e+05 / 92
p0 33.26 ± 0.02826
180
160
140
120
100
80
60
40
20

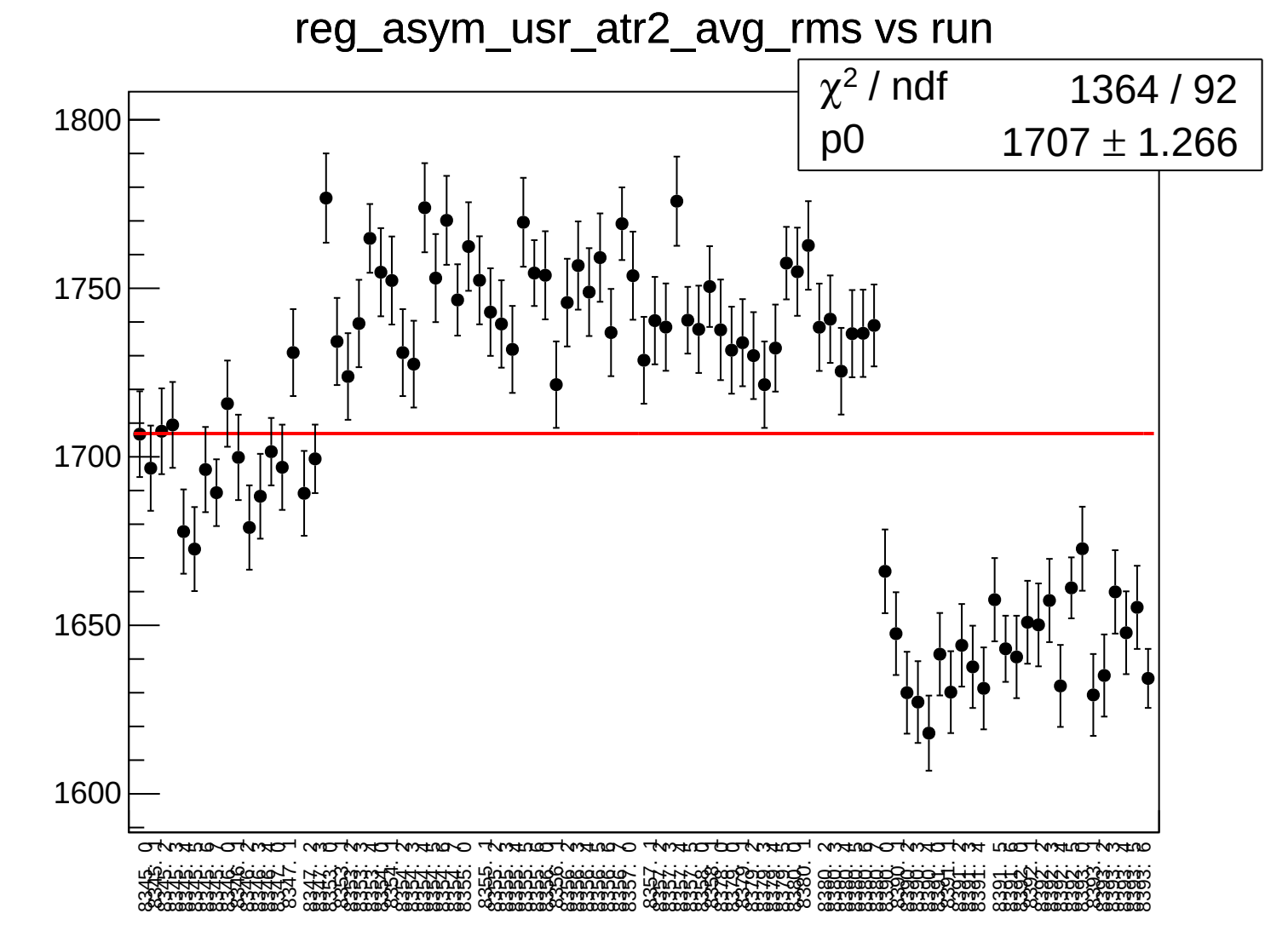

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.63 / 92
p0 7.656e−15 ± 5.153e−14
pull
Entries 93
Mean 79.86
Std Dev 0

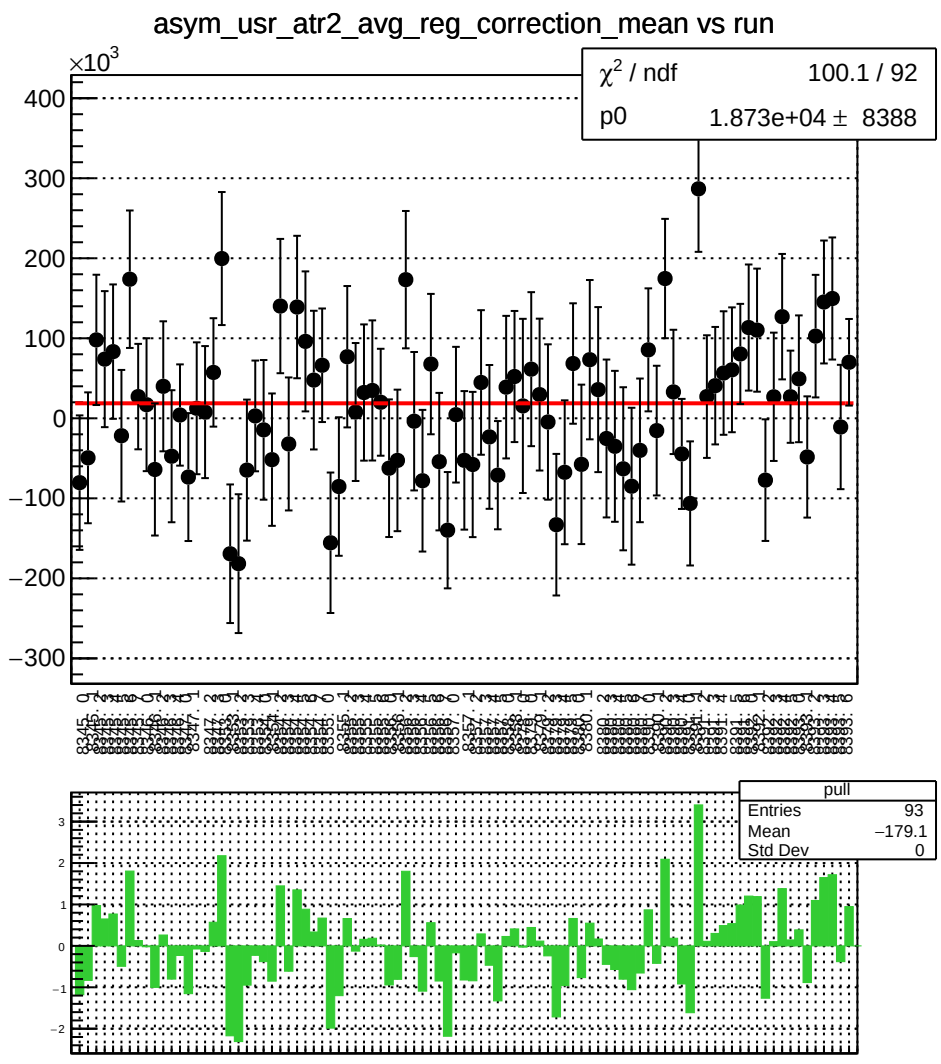

pull1D
Entries 93
Mean −0.0998
Std Dev 1.02

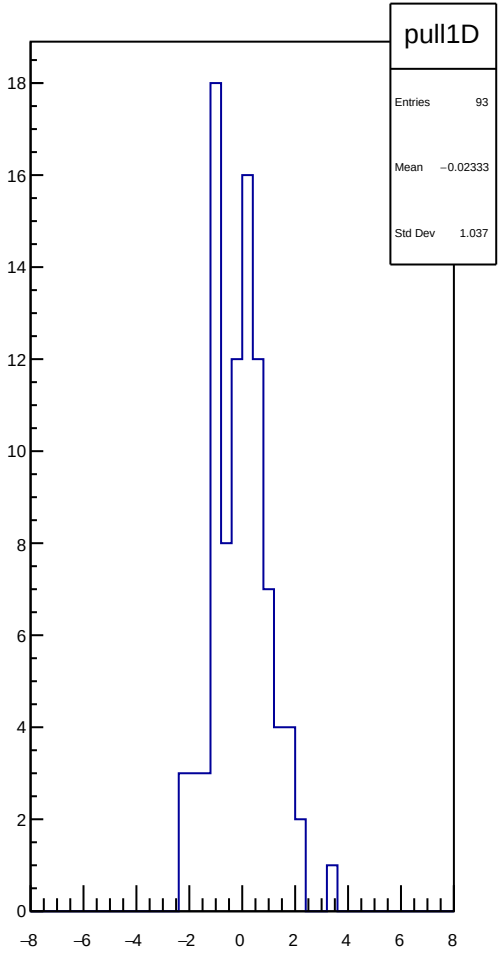

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.207e+05 / 92
p0 3.818e−11 ± 3.644e−14
0.25
0.2
0.15
0.1
0.05

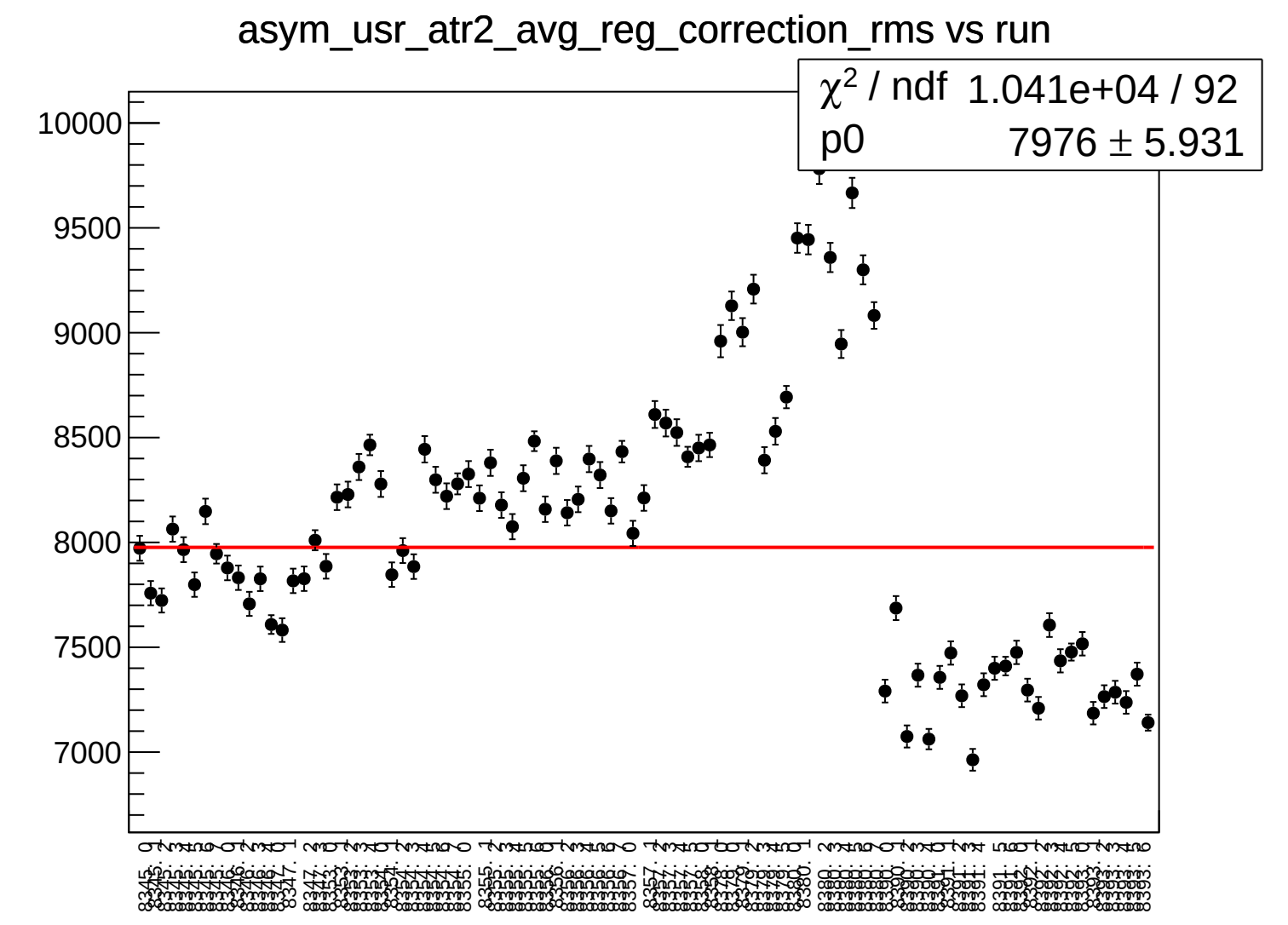

reg_asym_usr_atr2_avg_mean vs run
χ² / ndf 86.88 / 92
p0 5439 ± 1791
80000
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −219.2
Std Dev 0
3
2
1
0
−1
−2

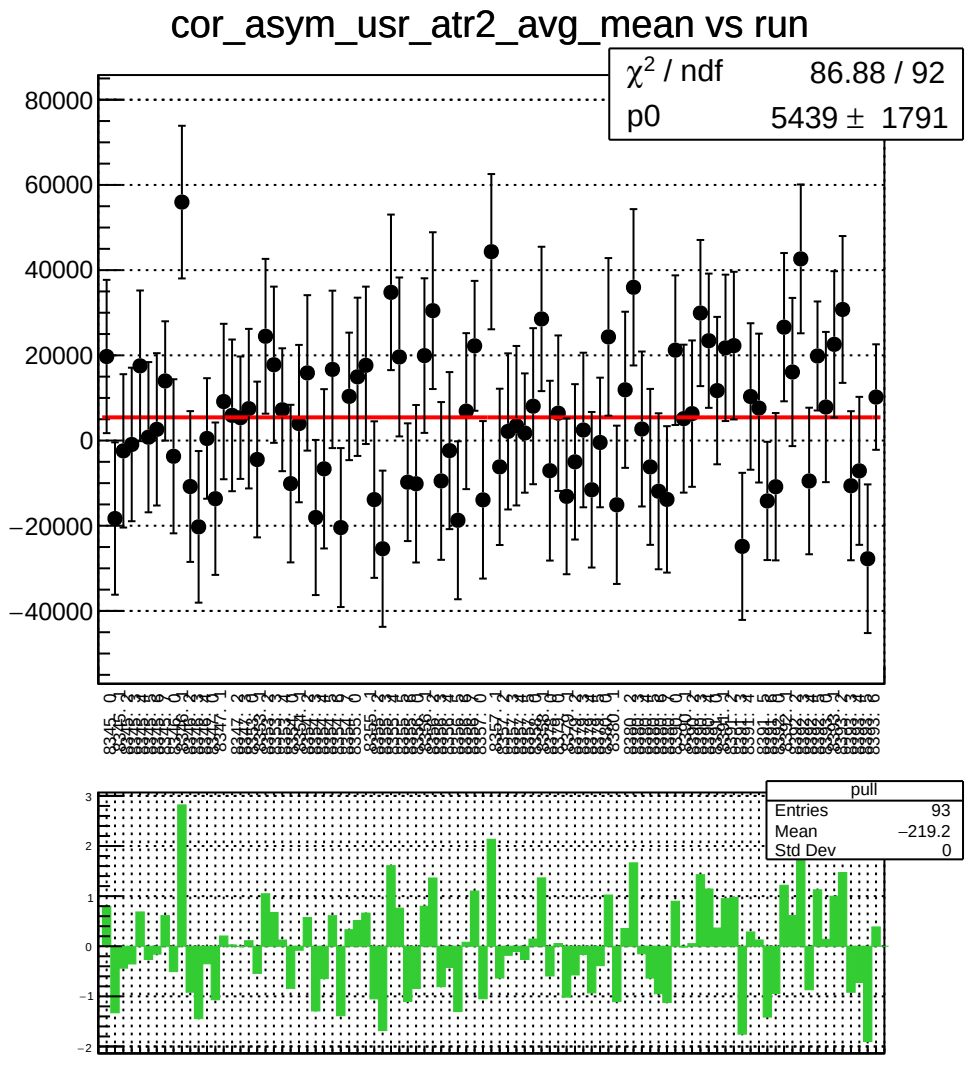

pull1D
Entries 93
Mean −0.007487
Std Dev 0.9665
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

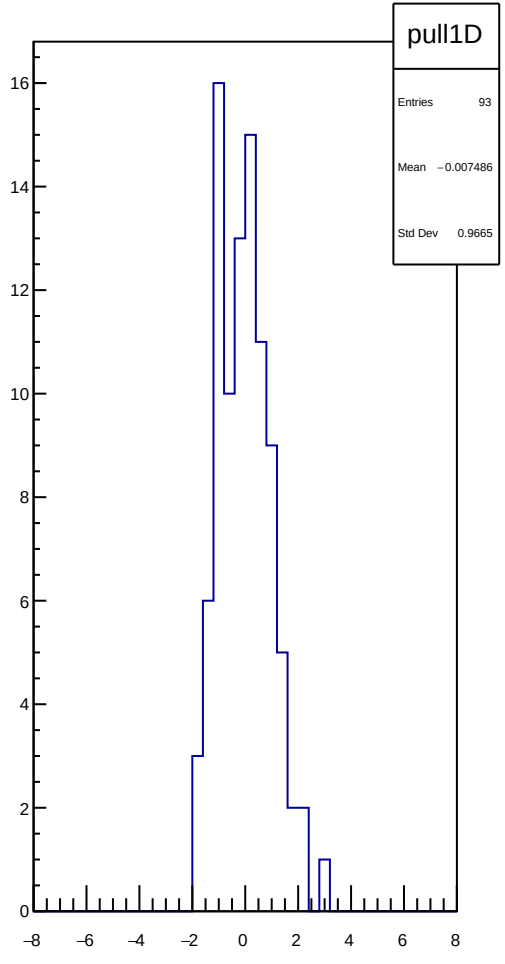

reg_asym_usr_atr2_avg_rms vs run
χ² / ndf 1364 / 92
p0 1707 ± 1.266
1800
1750
1700
1650
1600

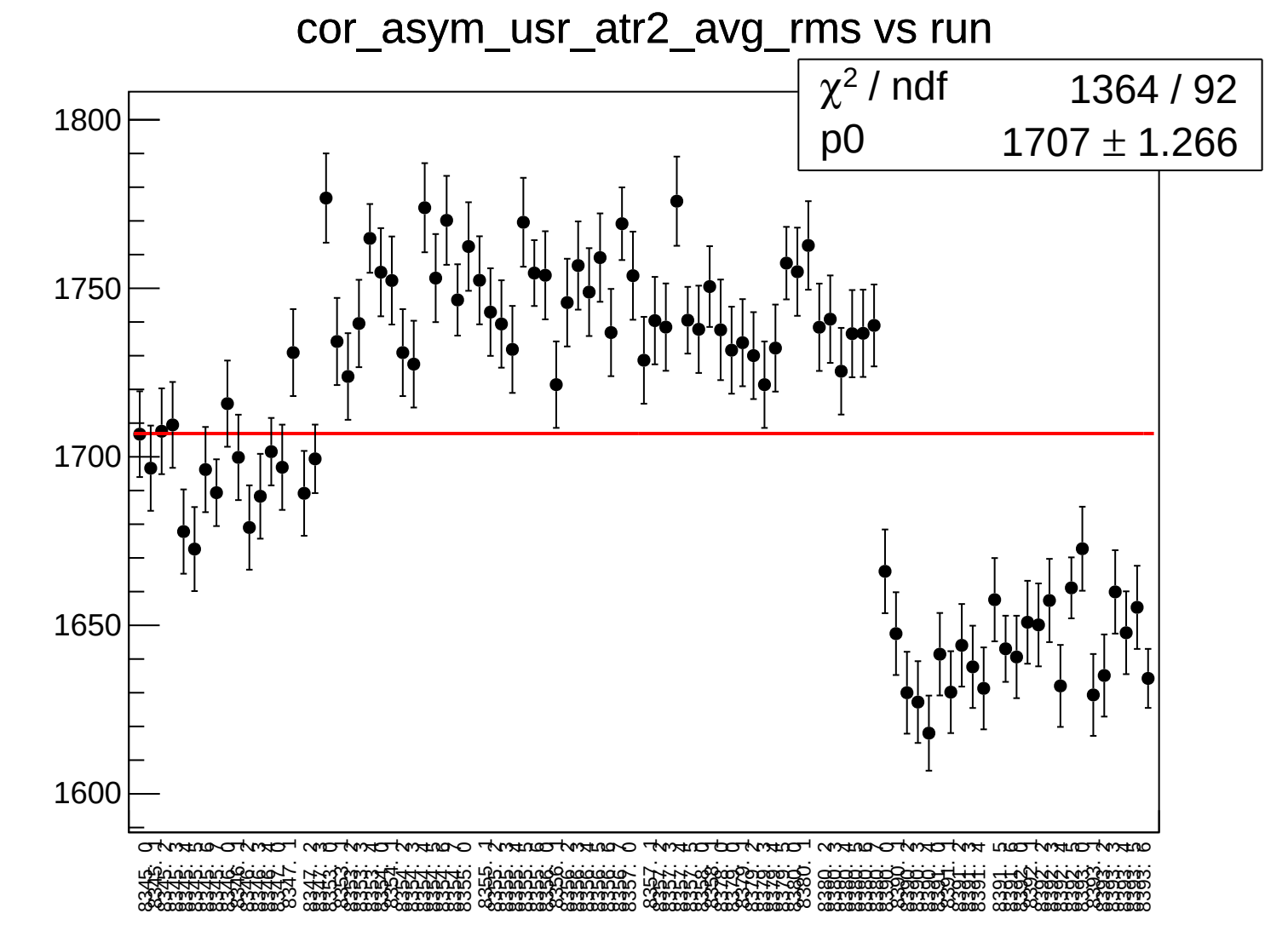

asym_usr_atr2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 100.1 / 92
p0 1.873e+04 ± 8388
pull
Entries 93
Mean −179.1
Std Dev 0

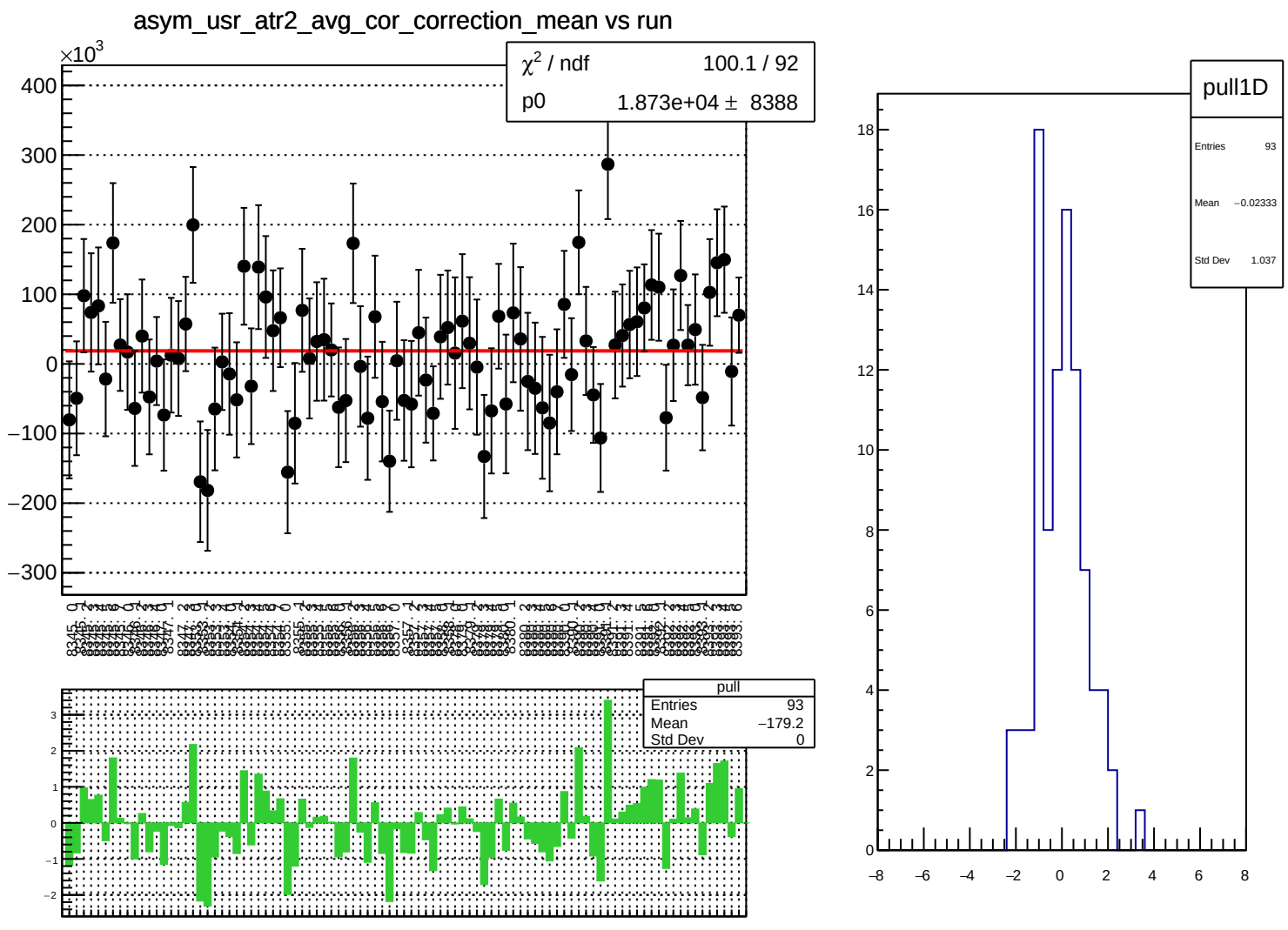

pull1D
Entries 93
Mean −0.02333
Std Dev 1.037

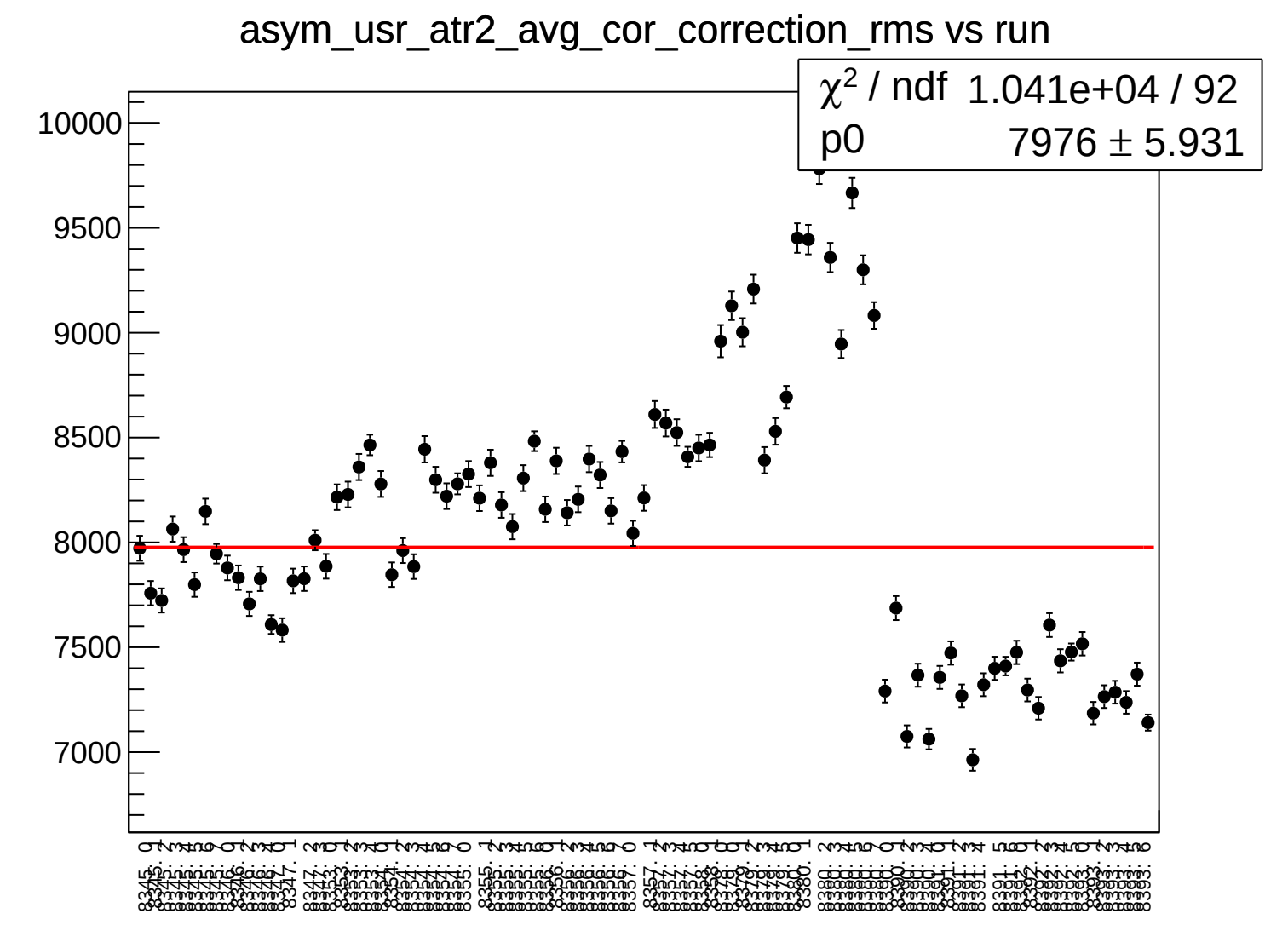

asym_usr_atr2_avg_reg_correction_rms vs run
χ² / ndf 1.041e+04 / 92
p0 7976 ± 5.931
10000
9500
9000
8500
8000
7500
7000

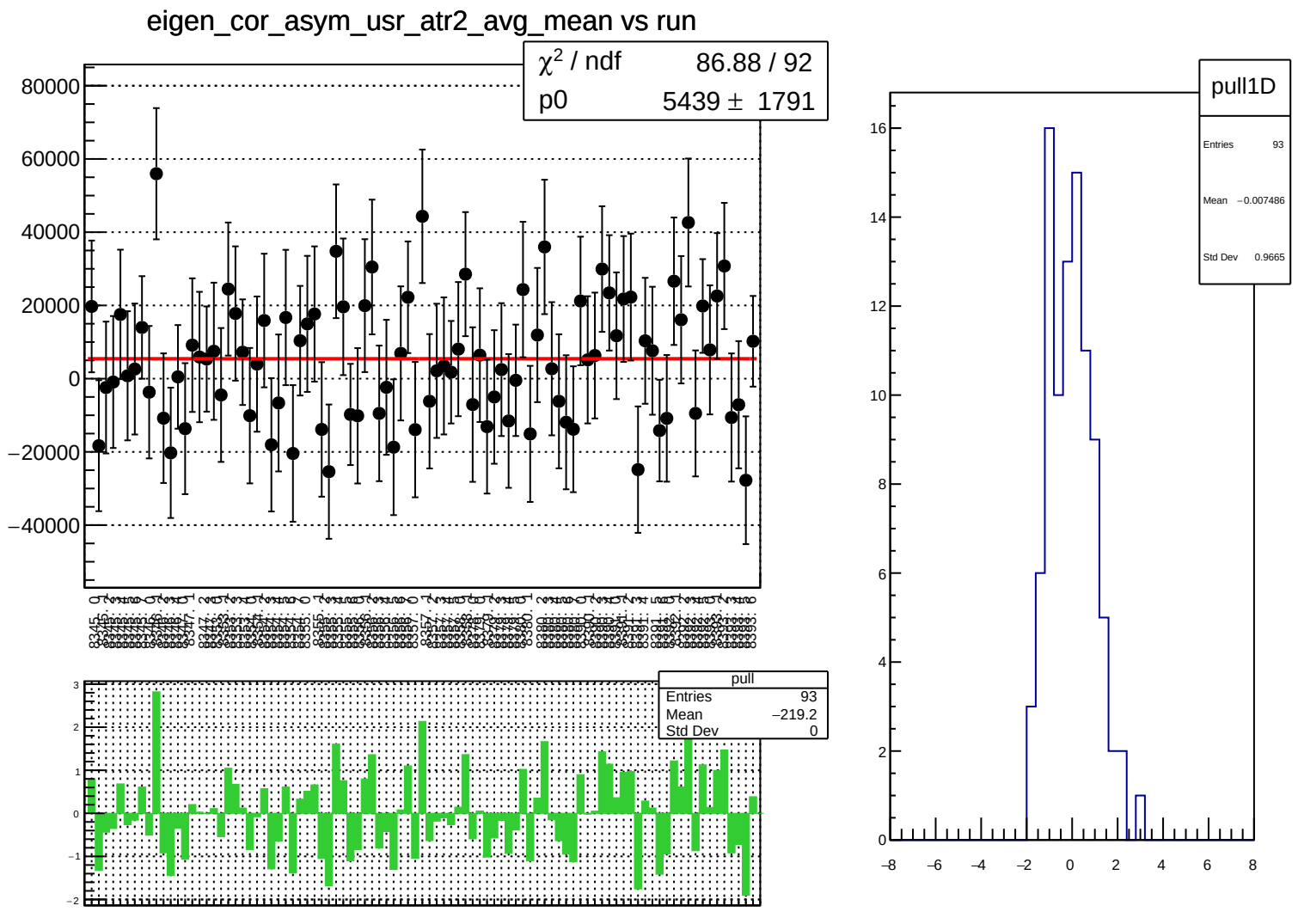

cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 86.88 / 92
p0 5439 ± 1791
80000
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −219.2
Std Dev 0
3
2
1
0
−1
−2

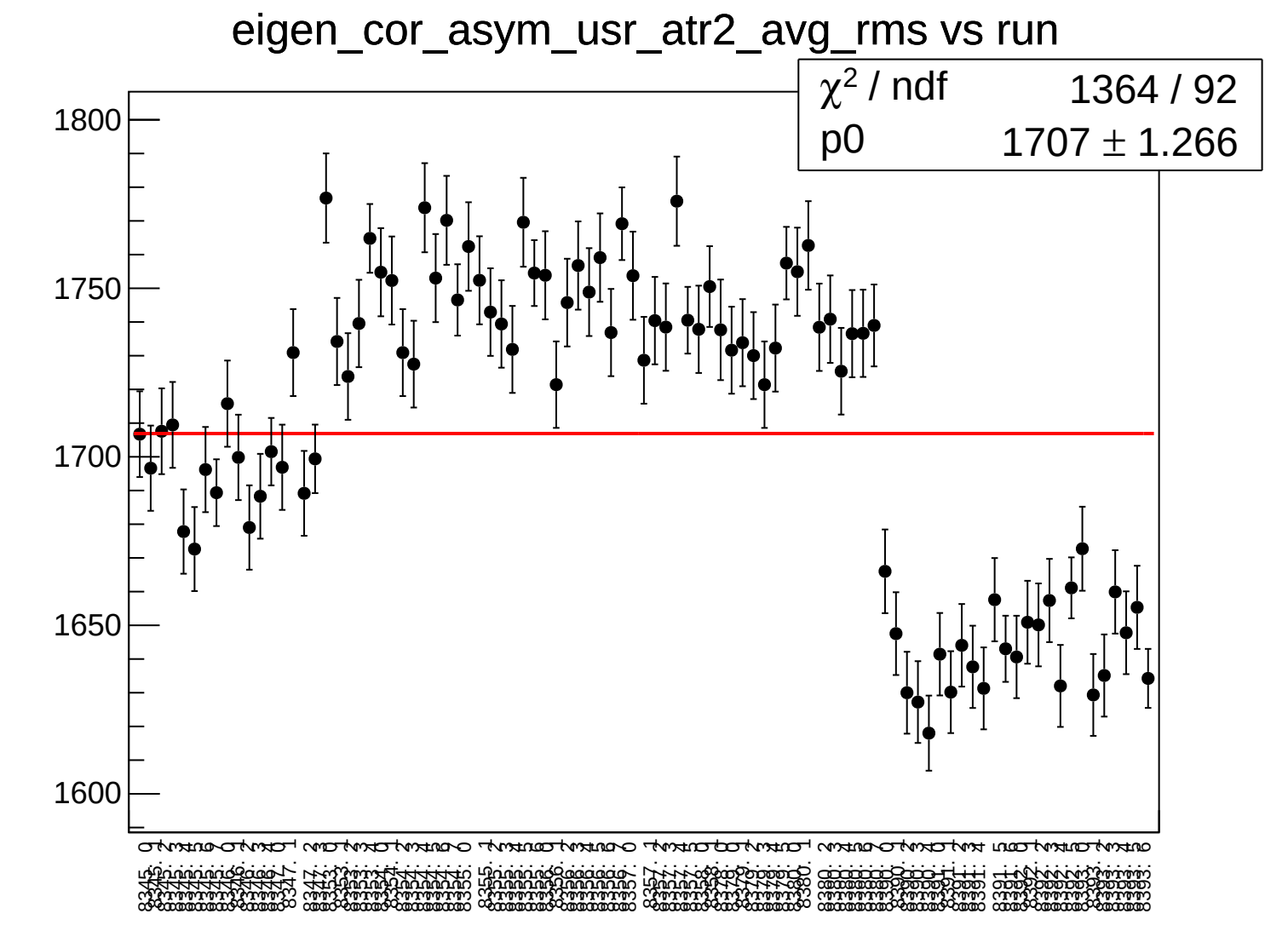

pull1D
Entries 93
Mean −0.007486
Std Dev 0.9665
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

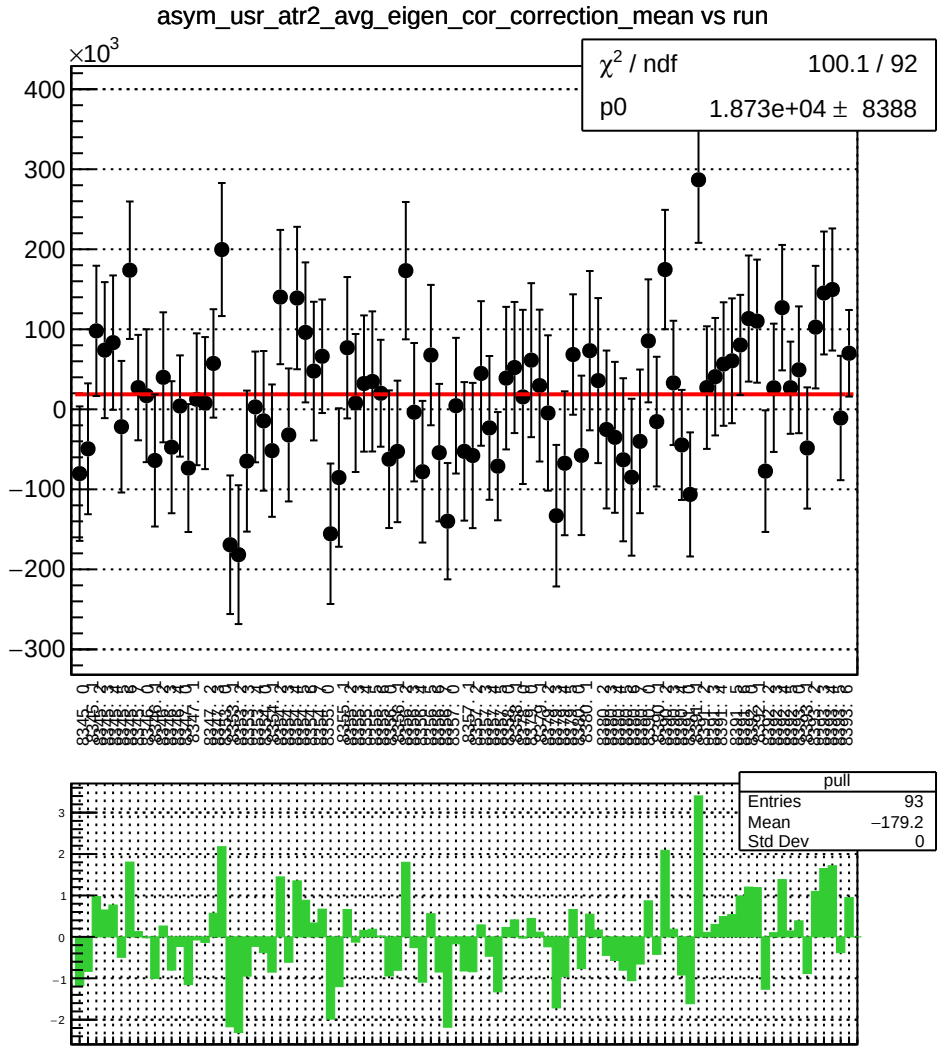

cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 1364 / 92
p0 1707 ± 1.266
1800
1750
1700
1650
1600

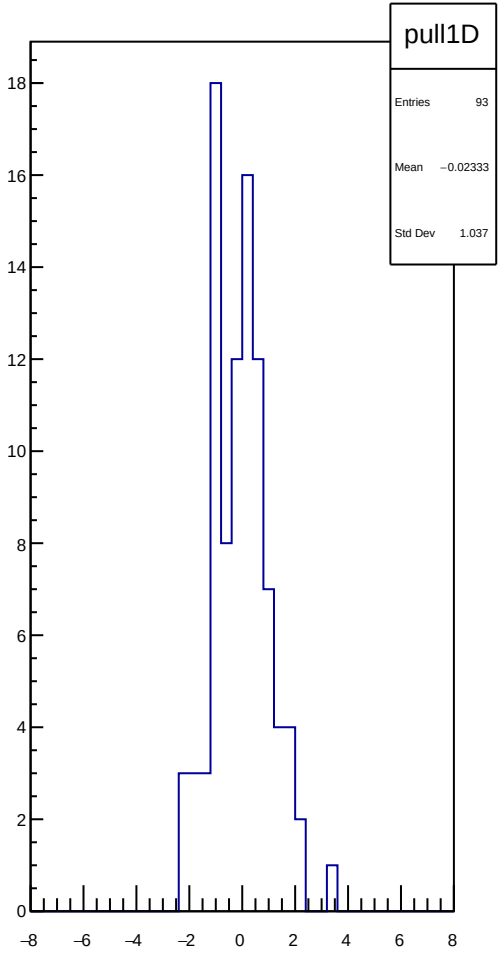

asym_usr_atr2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 100.1 / 92
p0 1.873e+04 ± 8388
pull
Entries 93
Mean −179.2
Std Dev 0
pull1D
Entries 93
Mean −0.02333
Std Dev 1.037

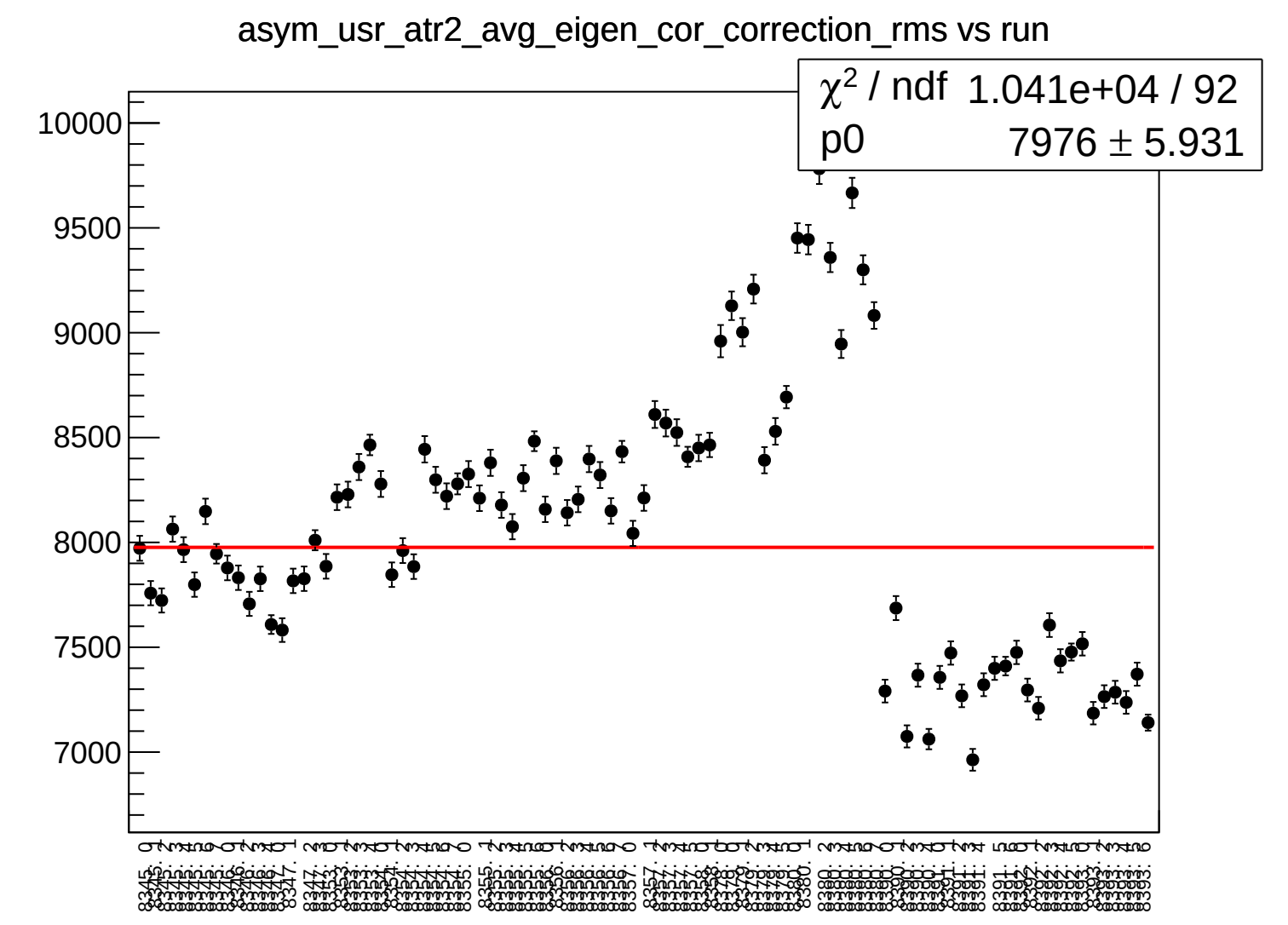

asym_usr_atr2_avg_cor_correction_rms vs run
χ^2 / ndf 1.041e+04 / 92
p0 7976 ± 5.931
10000
9500
9000
8500
8000
7500
7000

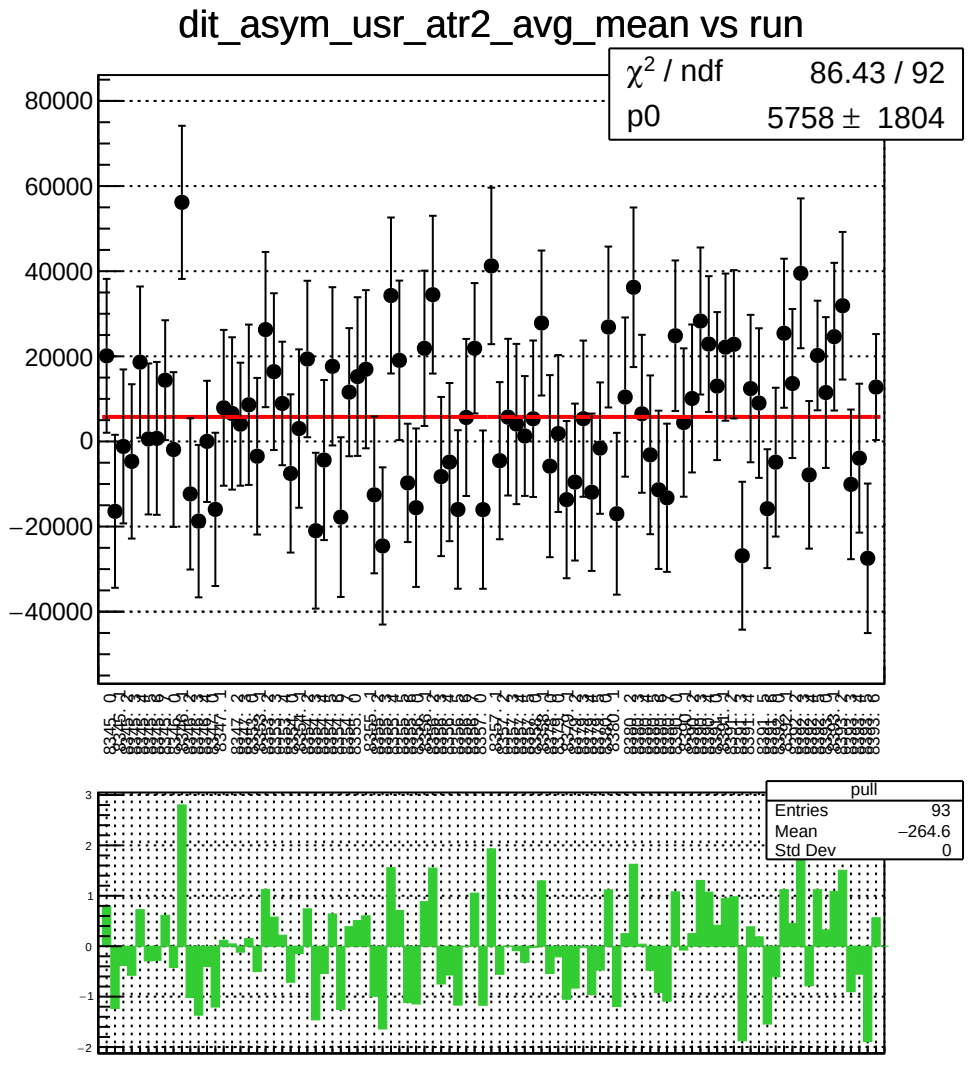

eigen_cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 86.88 / 92
p0 5439 ± 1791
80000
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −219.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.007486
Std Dev 0.9665
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

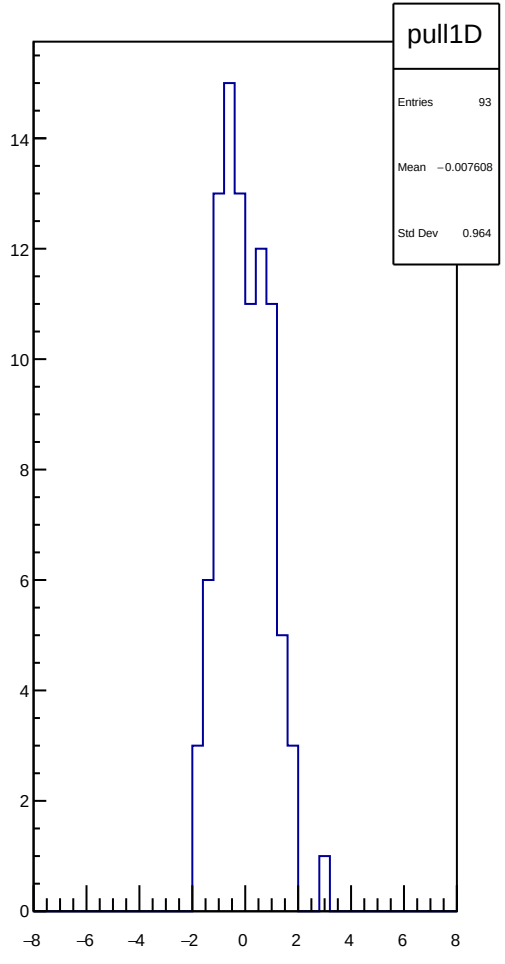

eigen_cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 1364 / 92
p0 1707 ± 1.266
1800
1750
1700
1650
1600

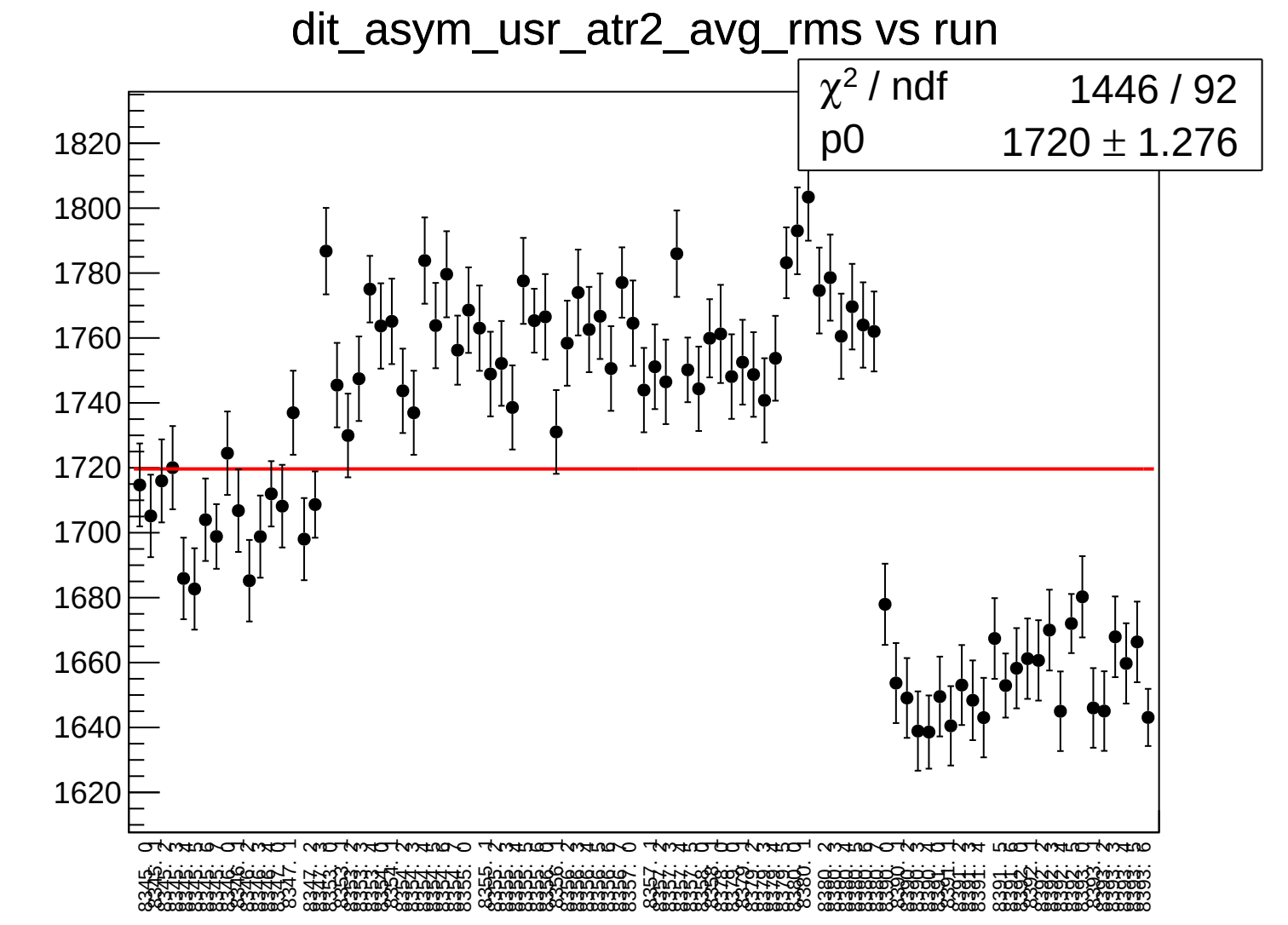

asym_usr_atr2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 100.1 / 92
p0 1.873e+04 ± 8388
pull
Entries 93
Mean −179.2
Std Dev 0

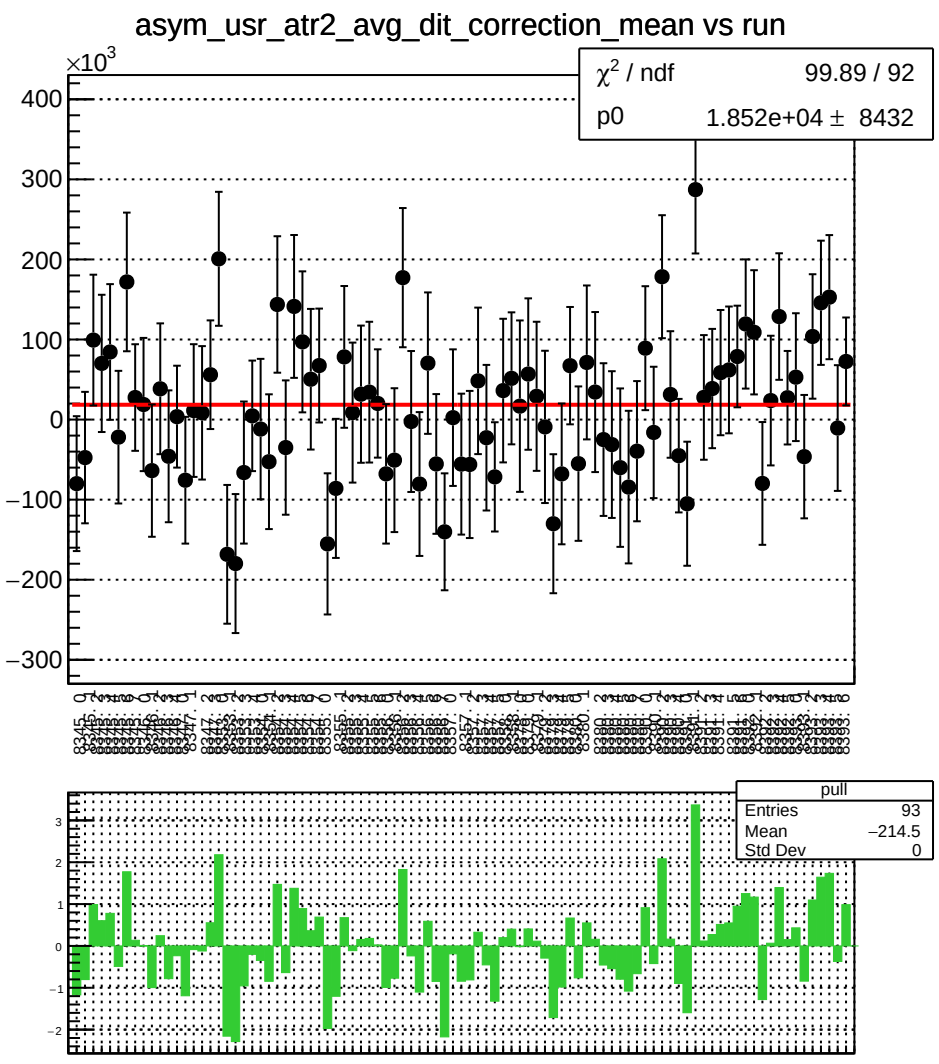

pull1D
Entries 93
Mean −0.02333
Std Dev 1.037

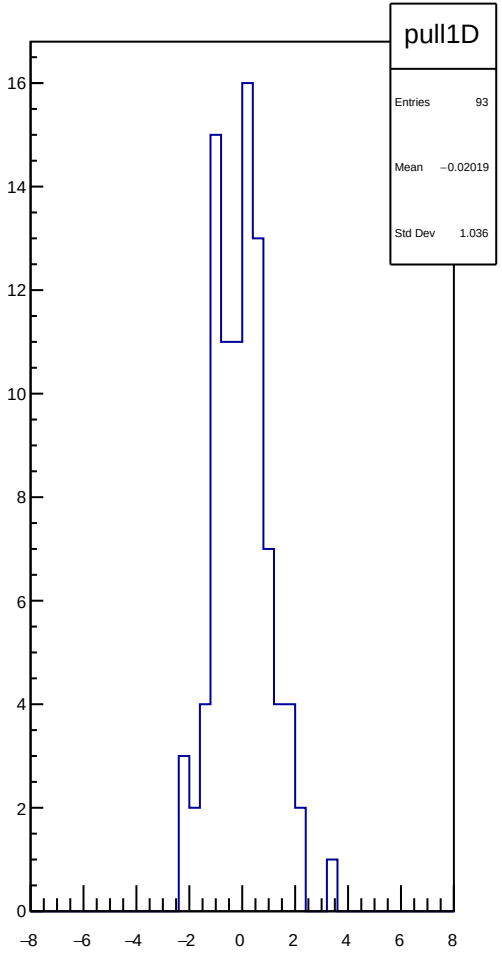

asym_usr_atr2_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 1.041e+04 / 92
p0 7976 ± 5.931
10000
9500
9000
8500
8000
7500
7000

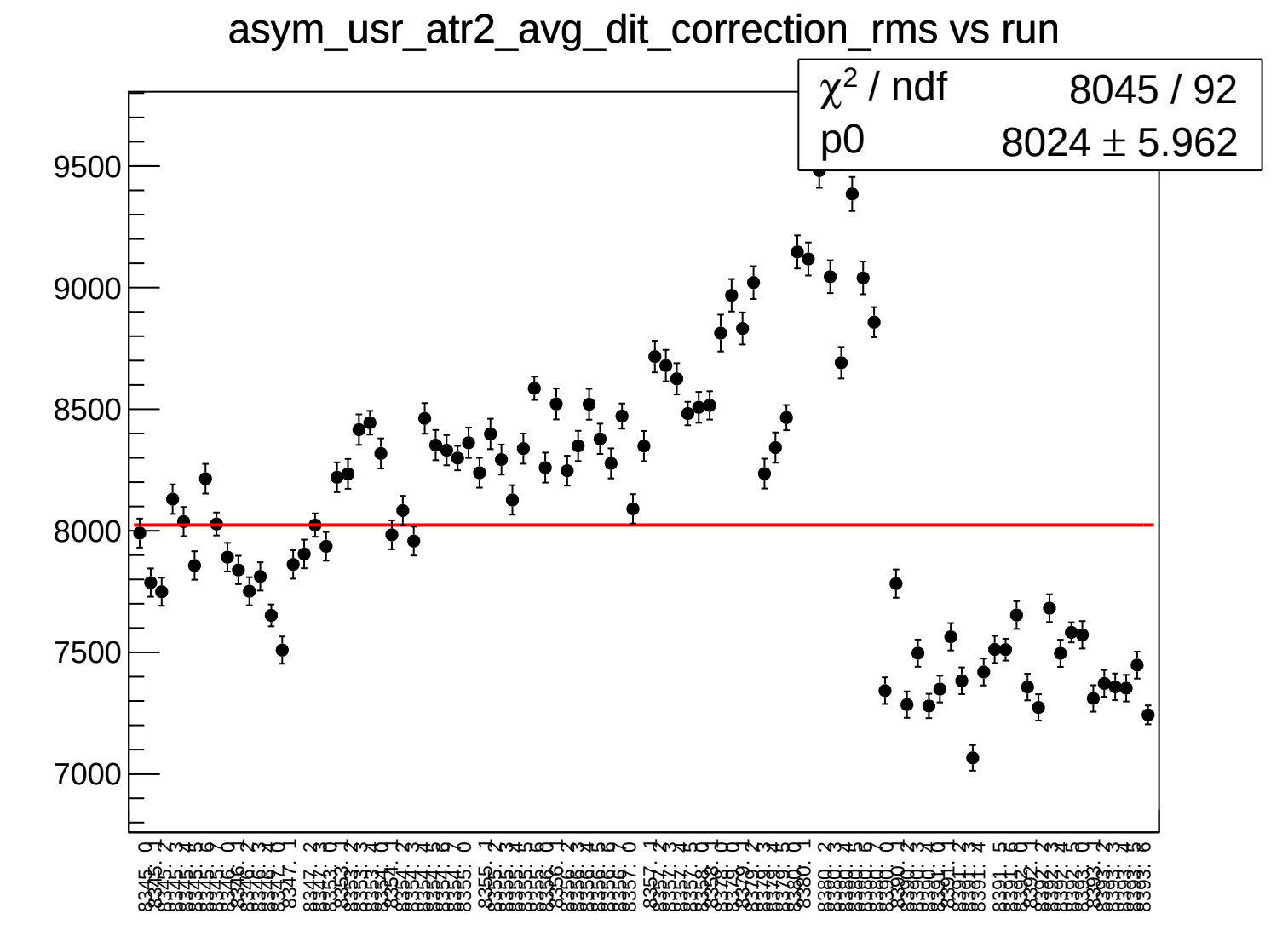

dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 86.43 / 92
p0 5758 ± 1804
80000
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −264.6
Std Dev 0
3
2
1
0
−1
−2

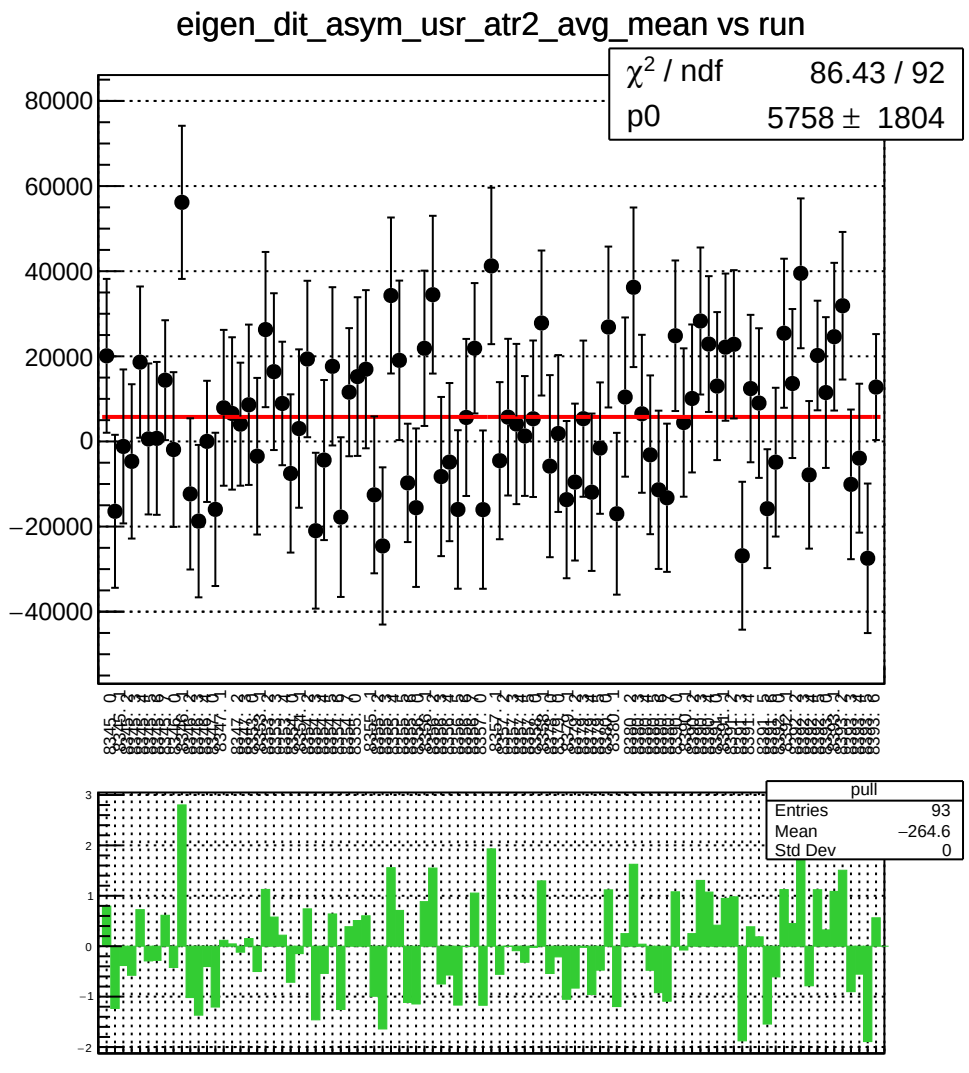

pull1D
Entries 93
Mean −0.007608
Std Dev 0.964
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

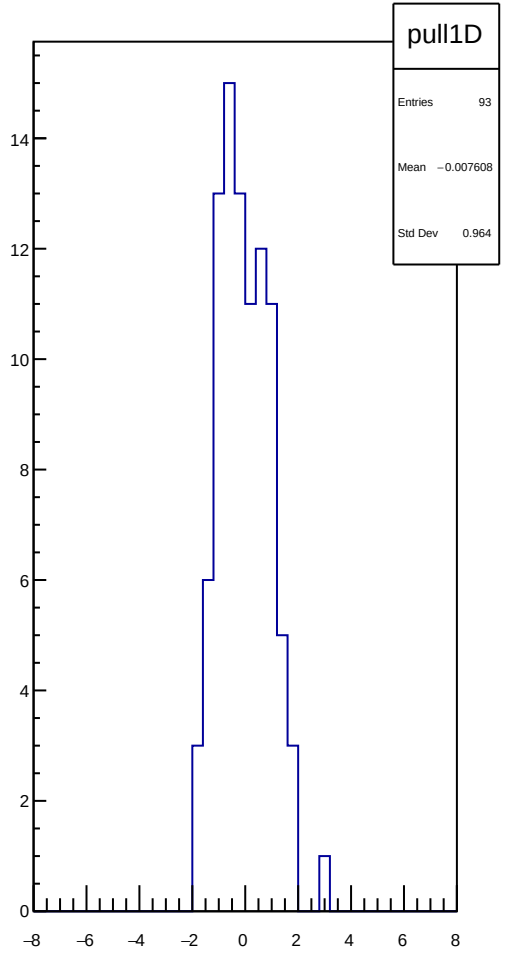

dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 1446 / 92
p0 1720 ± 1.276
1820
1800
1780
1760
1740
1720
1700
1680
1660
1640
1620

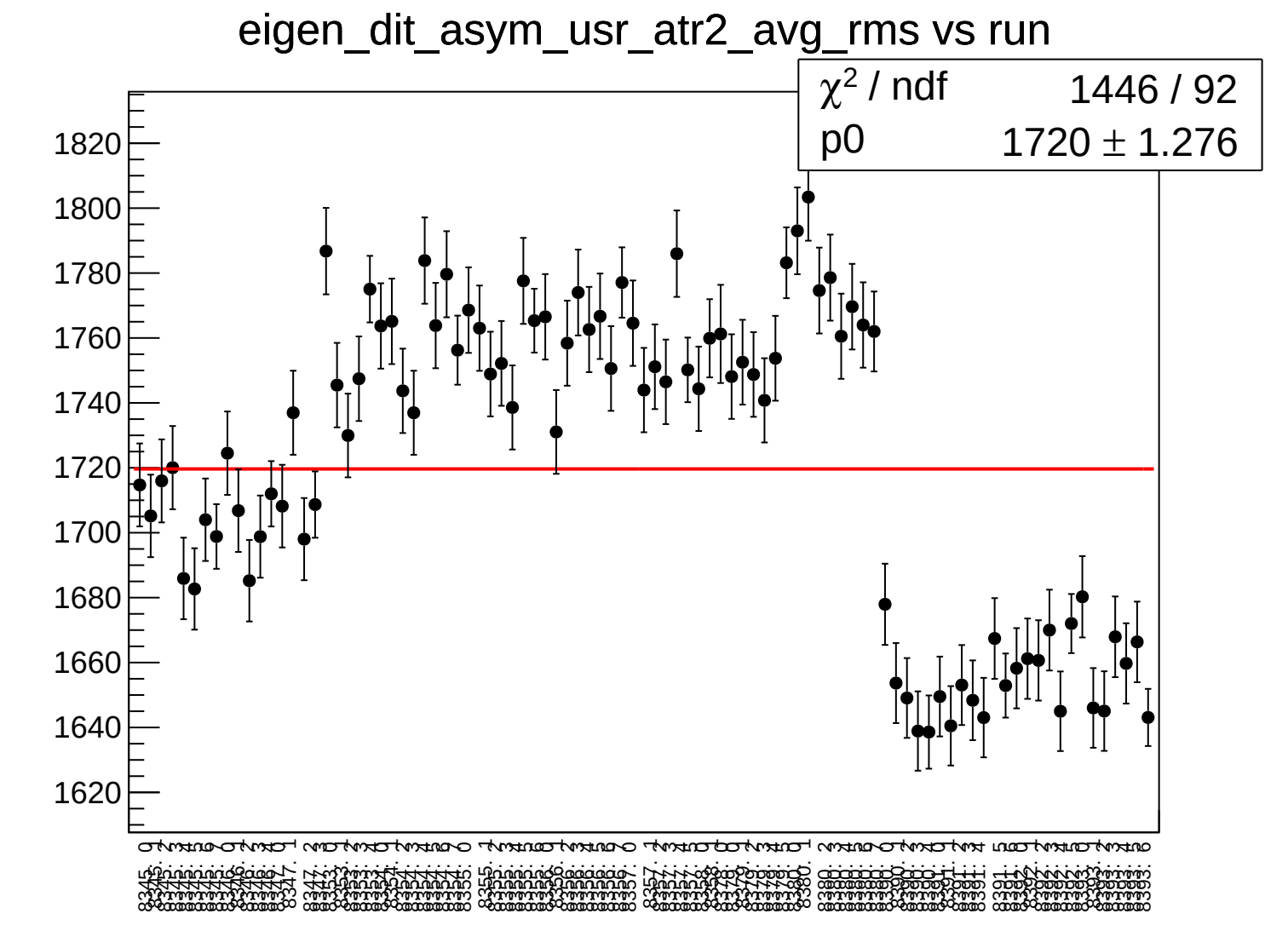

asym_usr_atr2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 99.89 / 92
p0 1.852e+04 ± 8432
pull
Entries 93
Mean −214.5
Std Dev 0

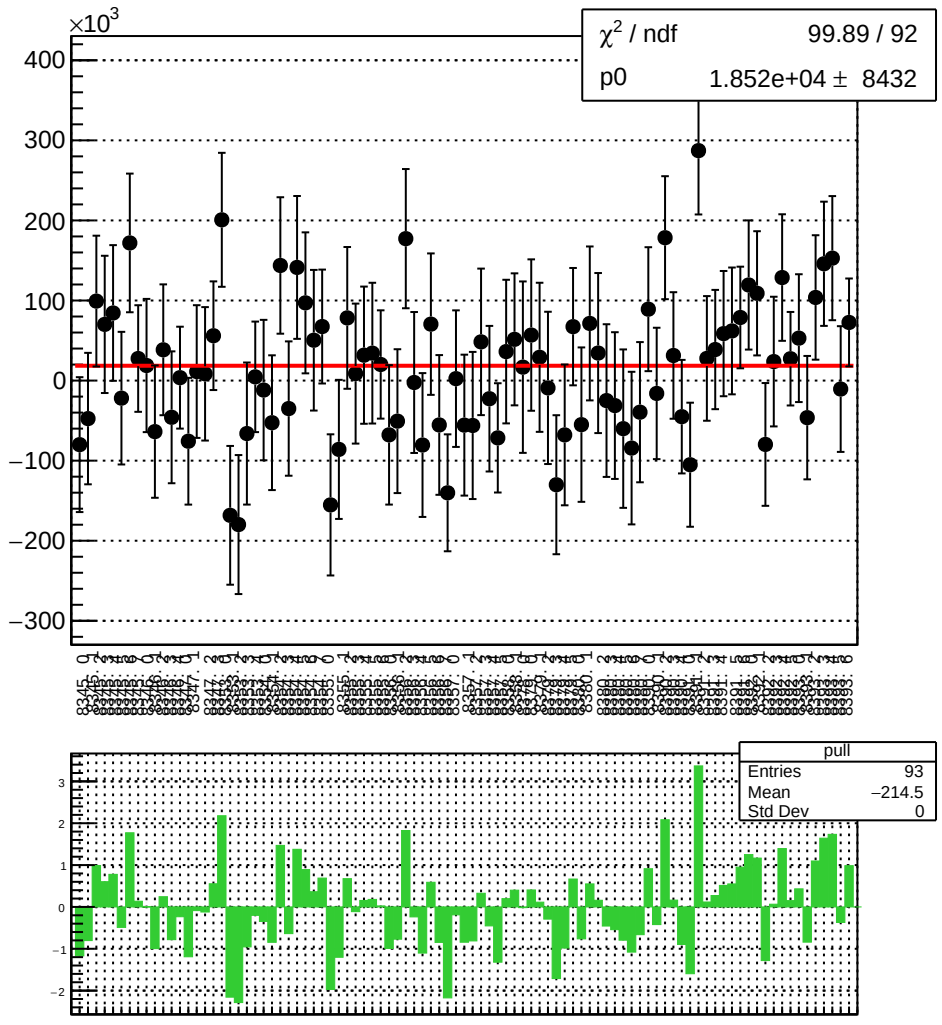

pull1D
Entries 93
Mean −0.02019
Std Dev 1.036

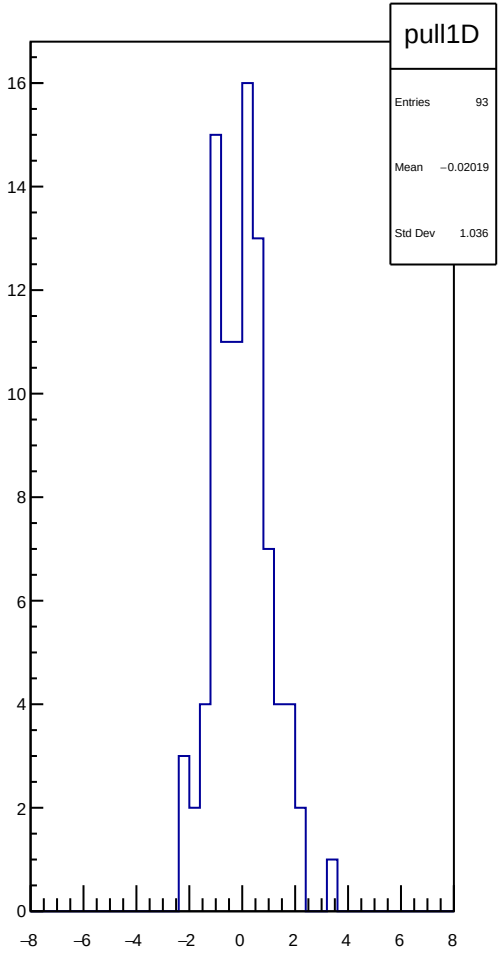

asym_usr_atr2_avg_dit_correction_rms vs run
χ² / ndf 8045 / 92
p0 8024 ± 5.962
9500
9000
8500
8000
7500
7000

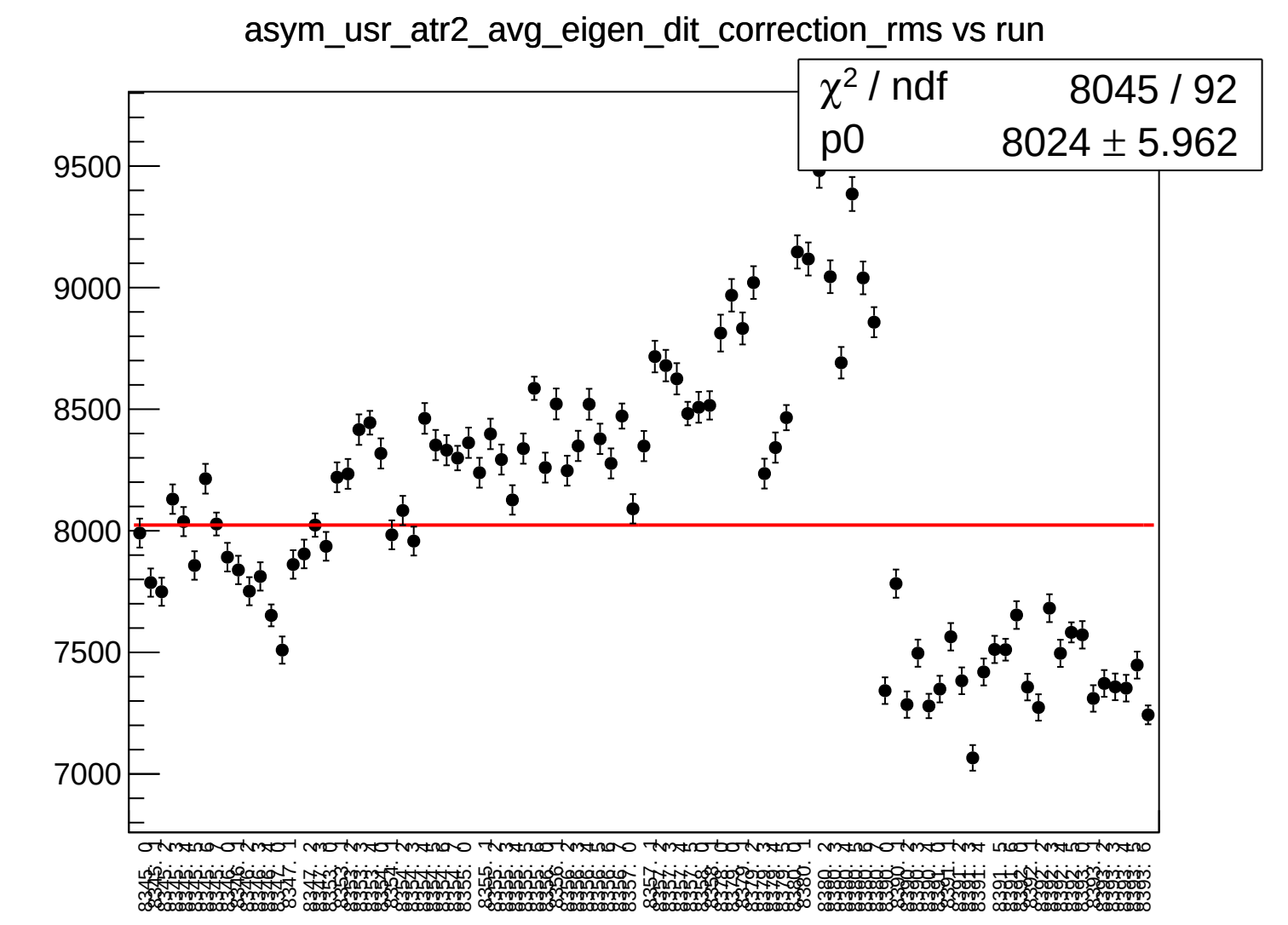

eigen_dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 86.43 / 92
p0 5758 ± 1804
80000
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −264.6
Std Dev 0
3
2
1
0
−1
−2

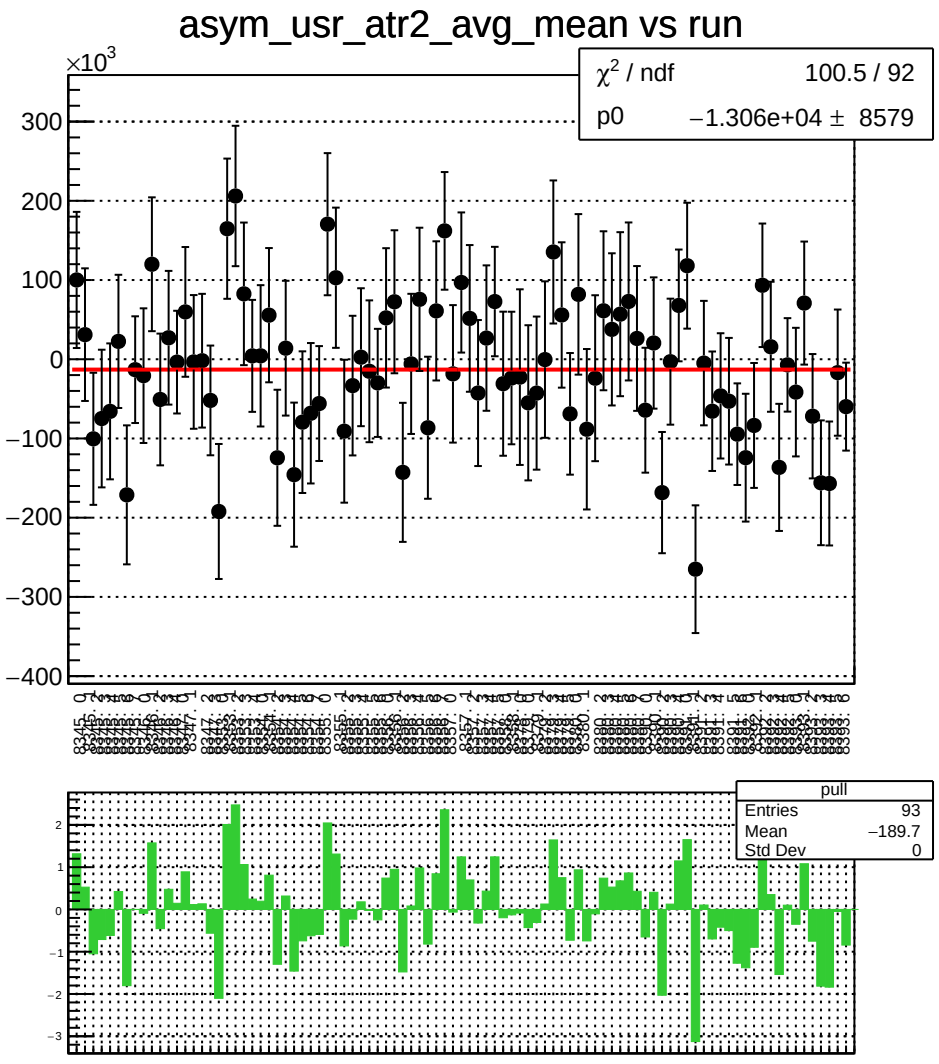

pull1D
Entries 93
Mean −0.007608
Std Dev 0.964
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

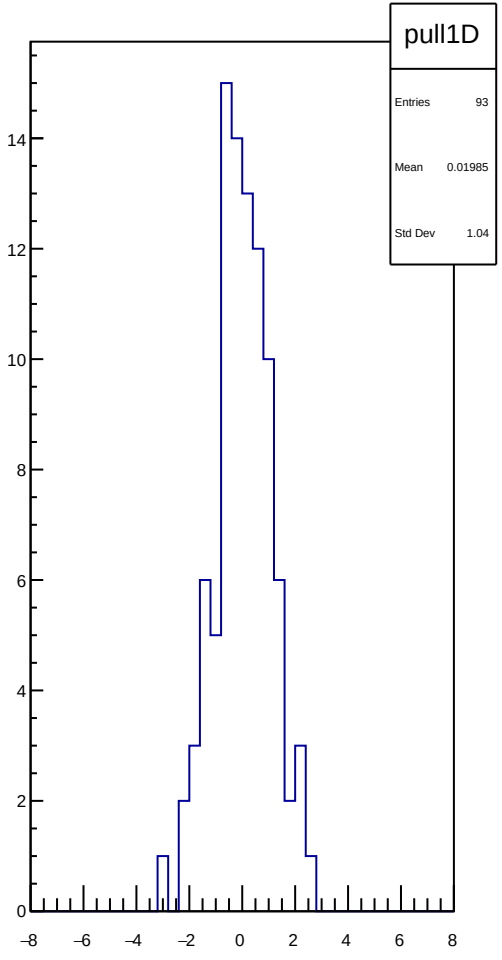

eigen_dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 1446 / 92
p0 1720 ± 1.276
1820
1800
1780
1760
1740
1720
1700
1680
1660
1640
1620

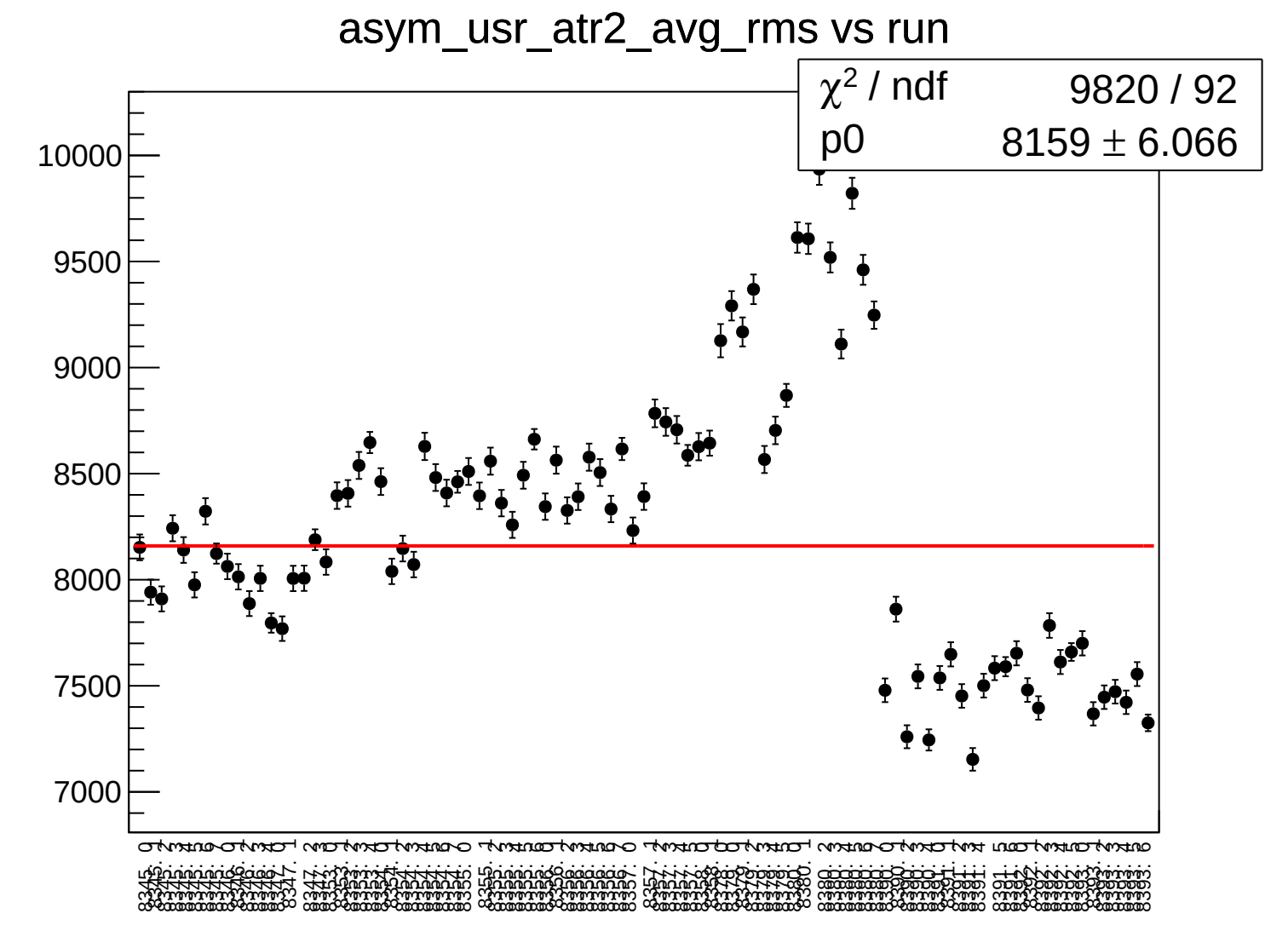

asym_usr_atr2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 99.89 / 92
p0 1.852e+04 ± 8432
pull
Entries 93
Mean −214.5
Std Dev 0

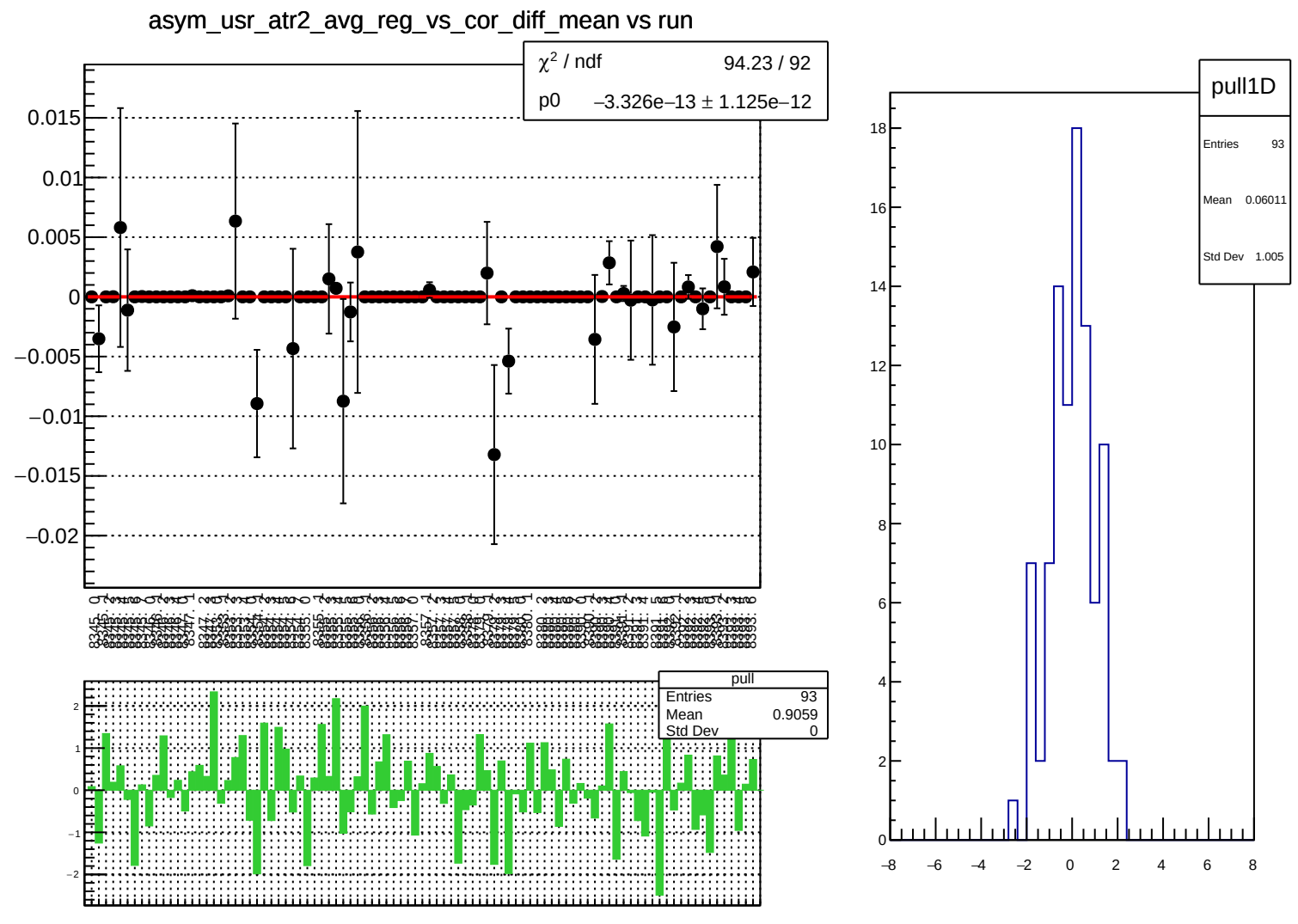

pull1D
Entries 93
Mean −0.02019
Std Dev 1.036

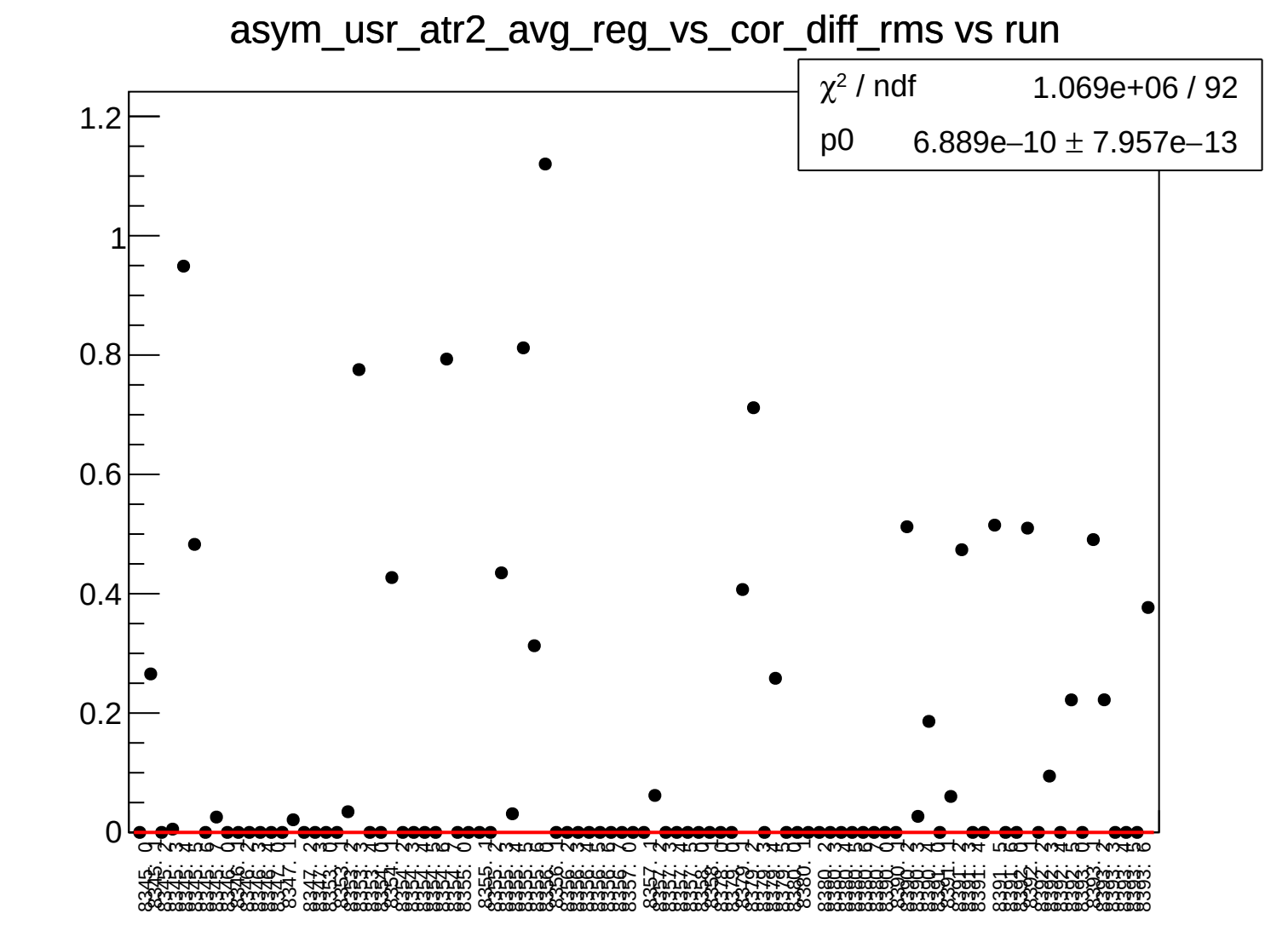

asym_usr_atr2_avg_eigen_dit_correction_rms vs run
χ² / ndf 8045 / 92
p0 8024 ± 5.962
9500
9000
8500
8000
7500
7000

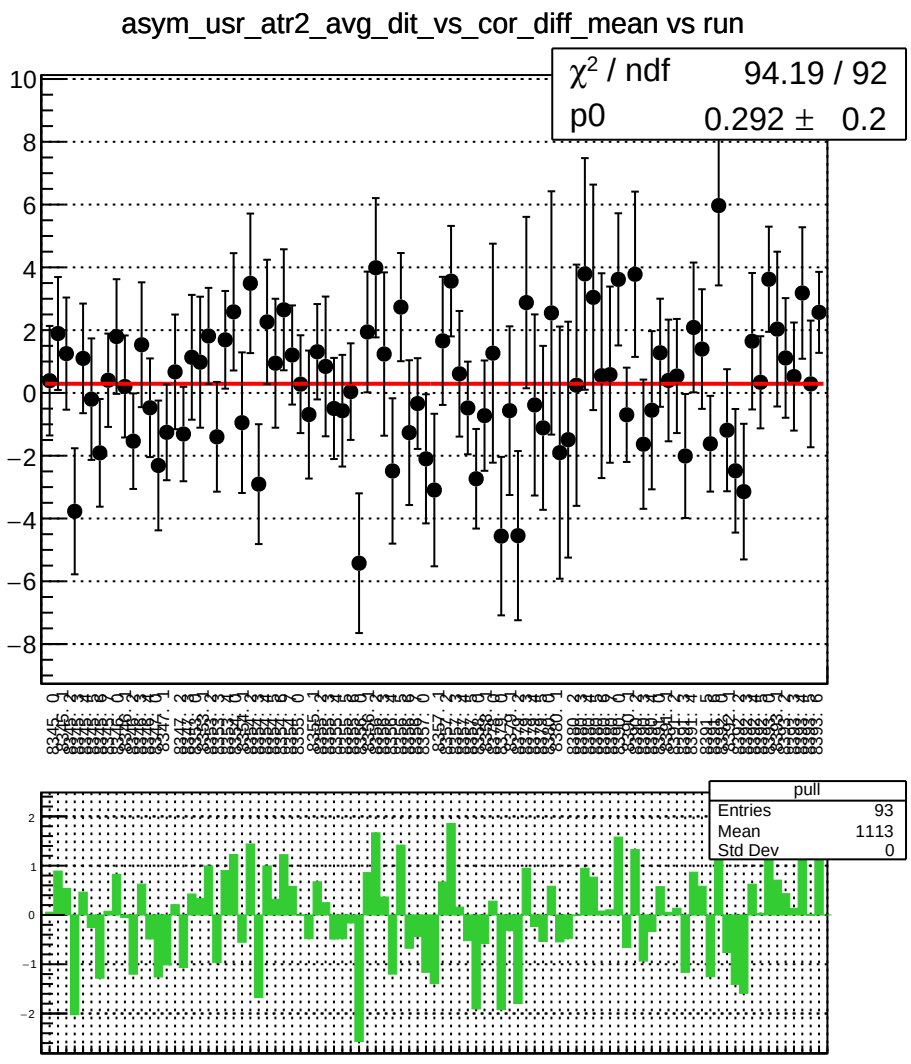

asym_usr_atr2_avg_mean vs run
×10^3
χ² / ndf 100.5 / 92
p0 −1.306e+04 ± 8579
pull
Entries 93
Mean −189.7
Std Dev 0

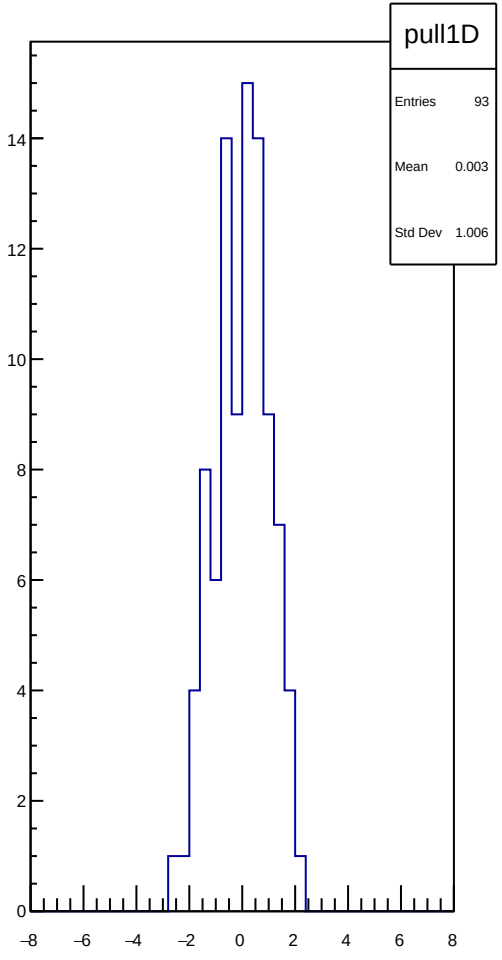

pull1D
Entries 93
Mean 0.01985
Std Dev 1.04

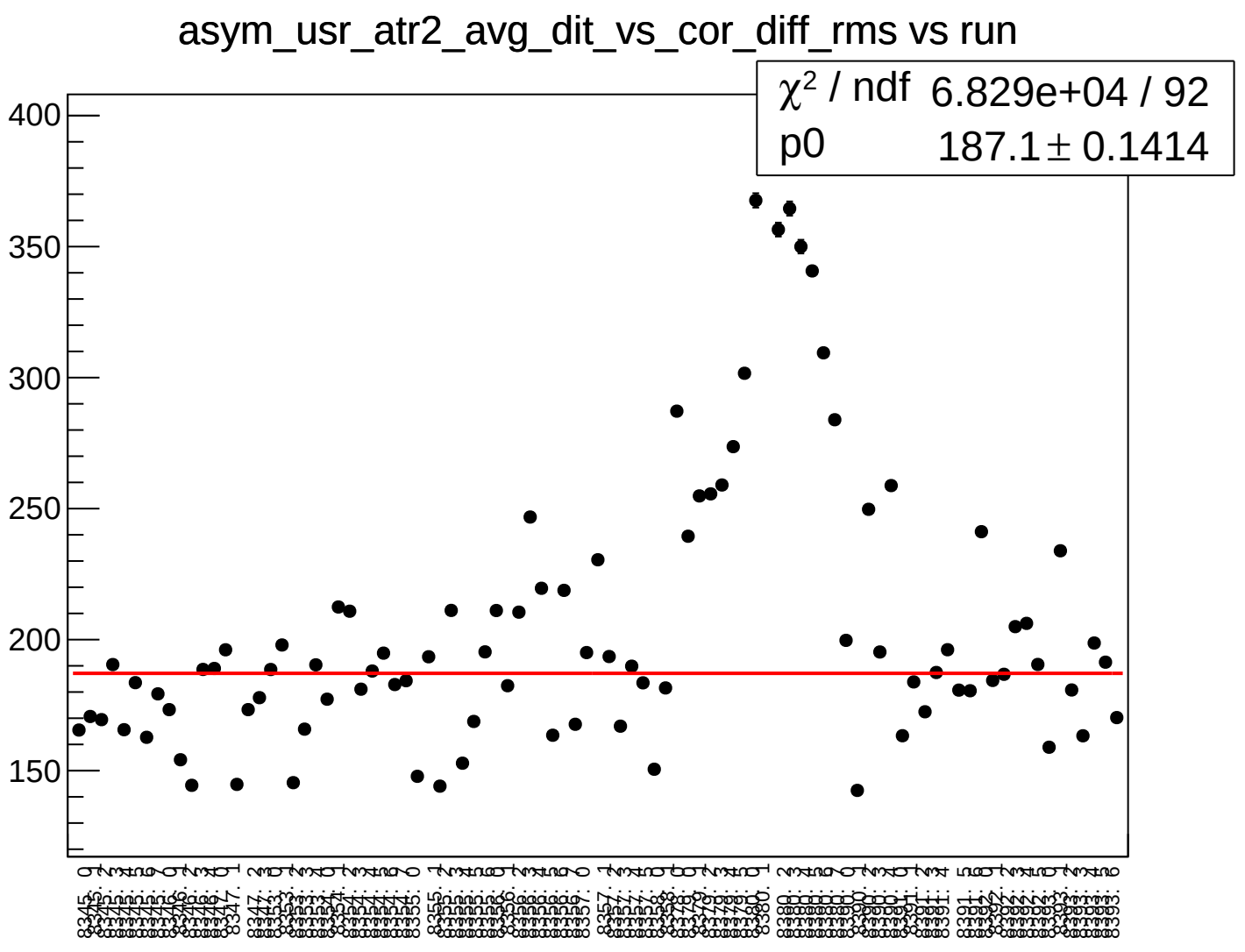

asym_usr_atr2_avg_rms vs run
χ² / ndf 9820 / 92
p0 8159 ± 6.066
10000
9500
9000
8500
8000
7500
7000

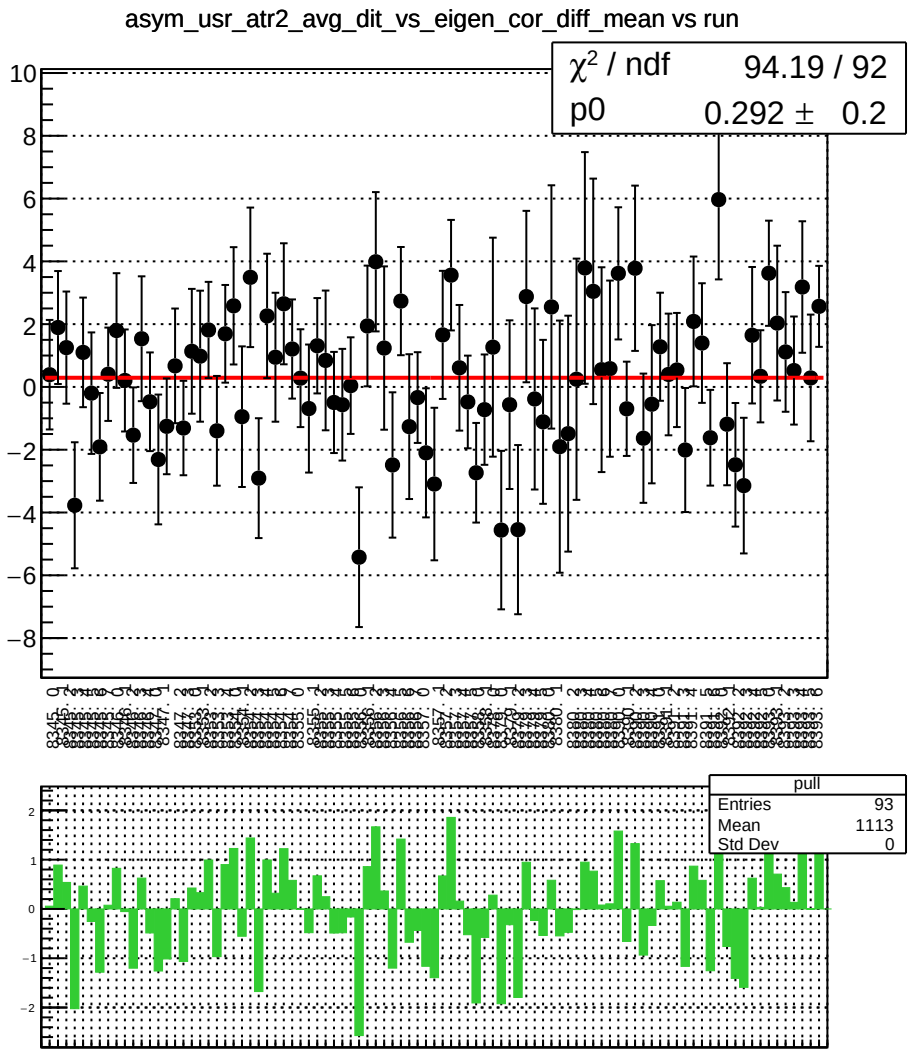

asym_usr_atr2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 94.23 / 92
p0 −3.326e−13 ± 1.125e−12
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 93
Mean 0.9059
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.06011
Std Dev 1.005
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

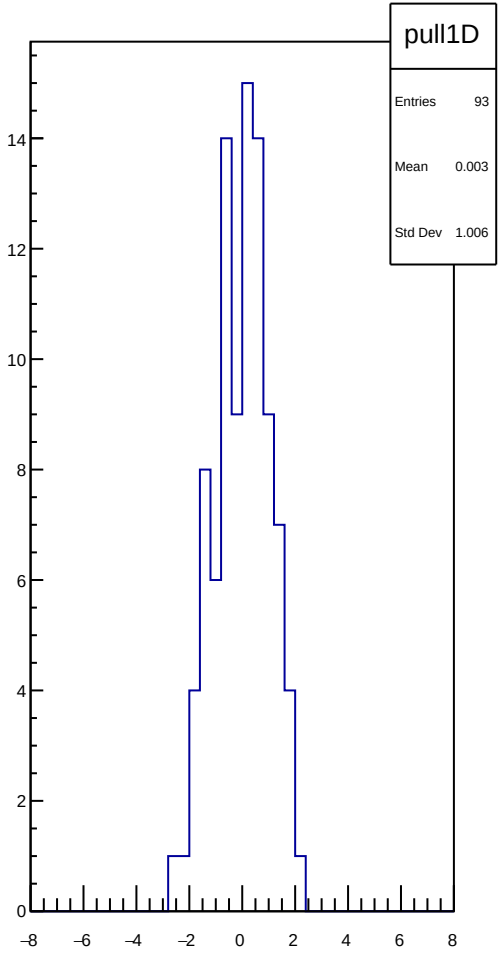

asym_usr_atr2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.069e+06 / 92
p0 6.889e−10 ± 7.957e−13
1.2
1
0.8
0.6
0.4
0.2
0

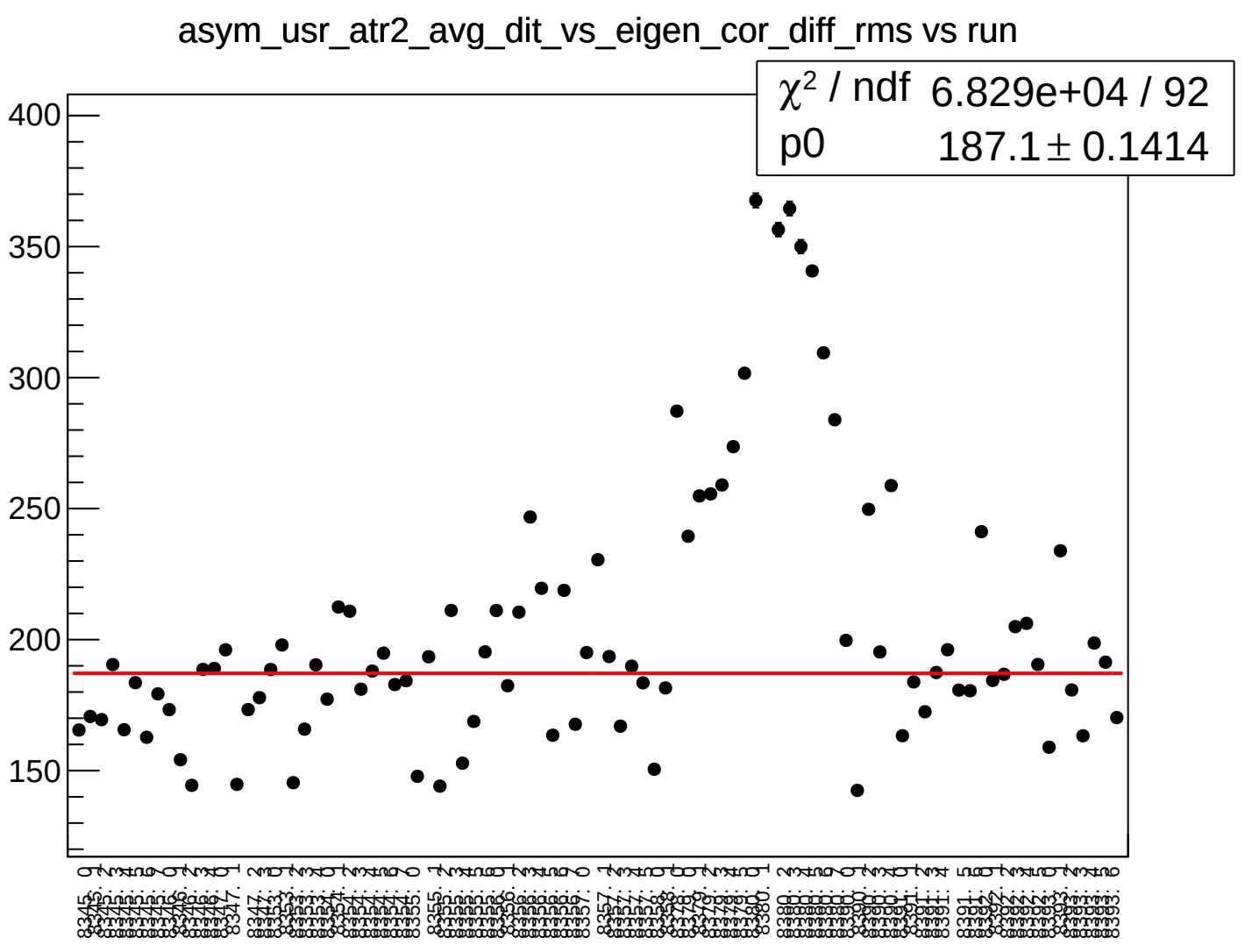

asym_usr_atr2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 94.19 / 92
p0 0.292 ± 0.2
pull
Entries 93
Mean 1113
Std Dev 0

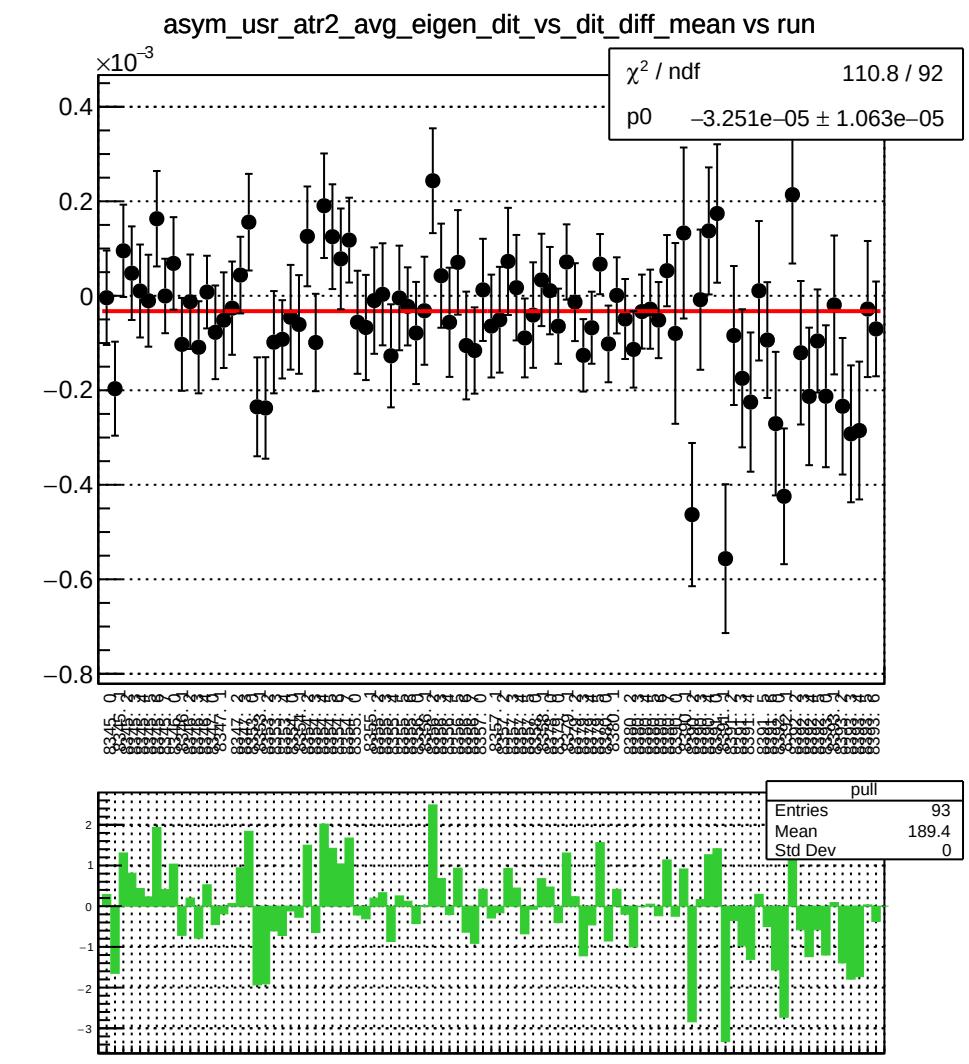

pull1D
Entries 93
Mean 0.003
Std Dev 1.006

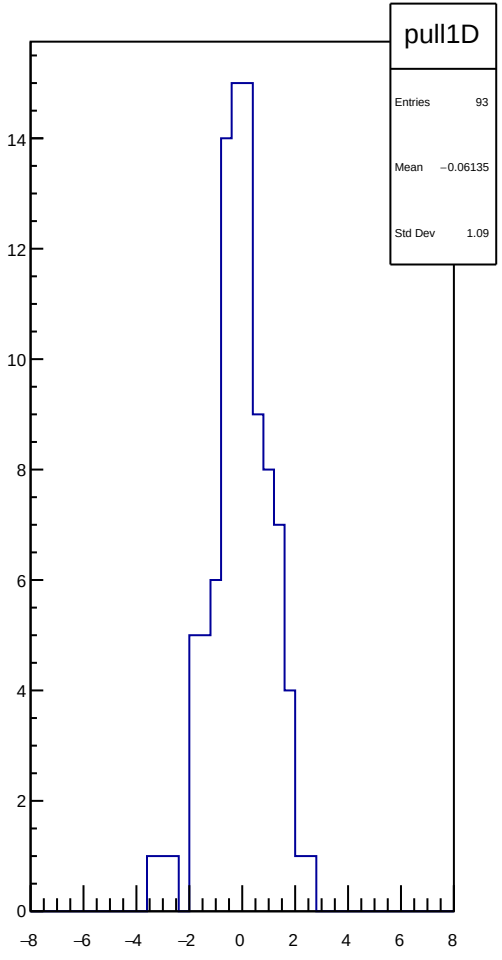

asym_usr_atr2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.829e+04 / 92
p0 187.1 ± 0.1414
400
350
300
250
200
150

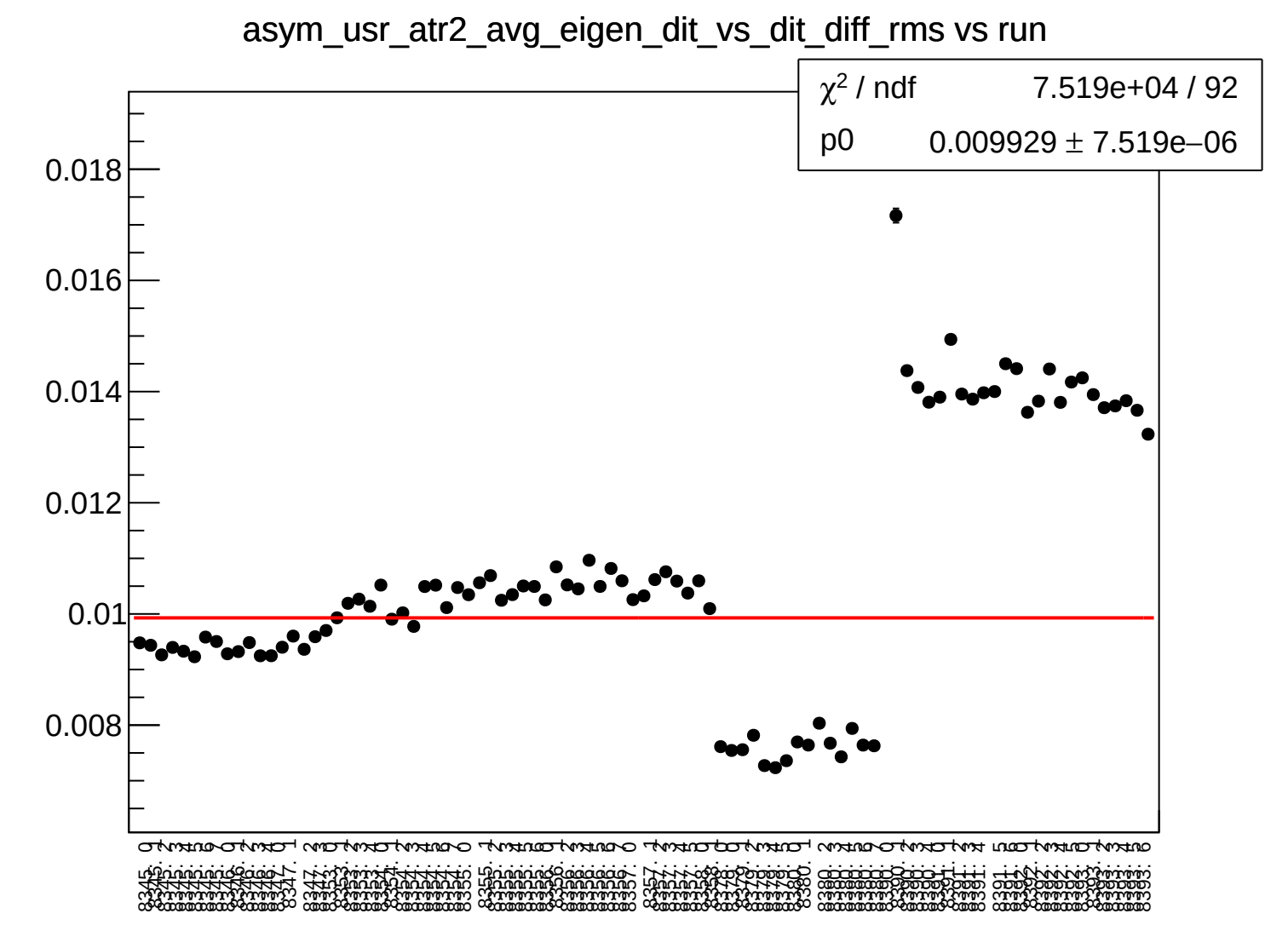

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.19 / 92
p0 0.292 ± 0.2
pull
Entries 93
Mean 1113
Std Dev 0

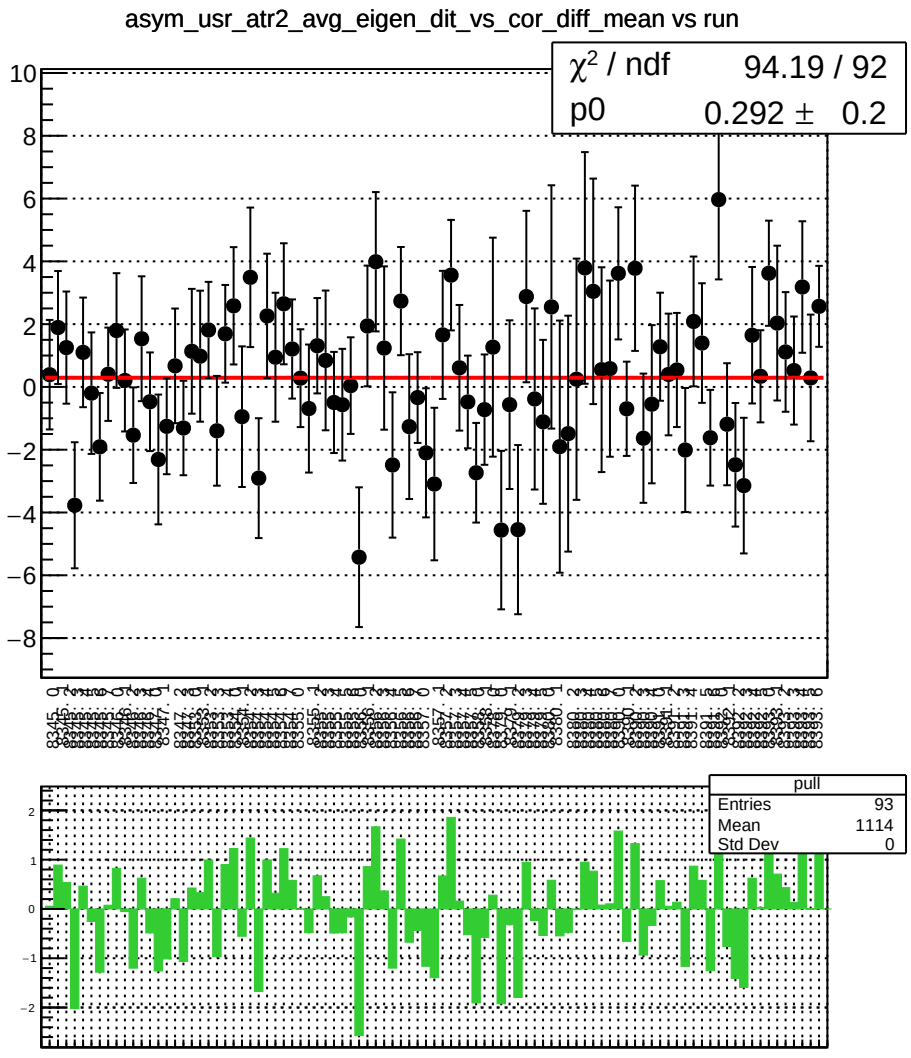

pull1D
Entries 93
Mean 0.003
Std Dev 1.006

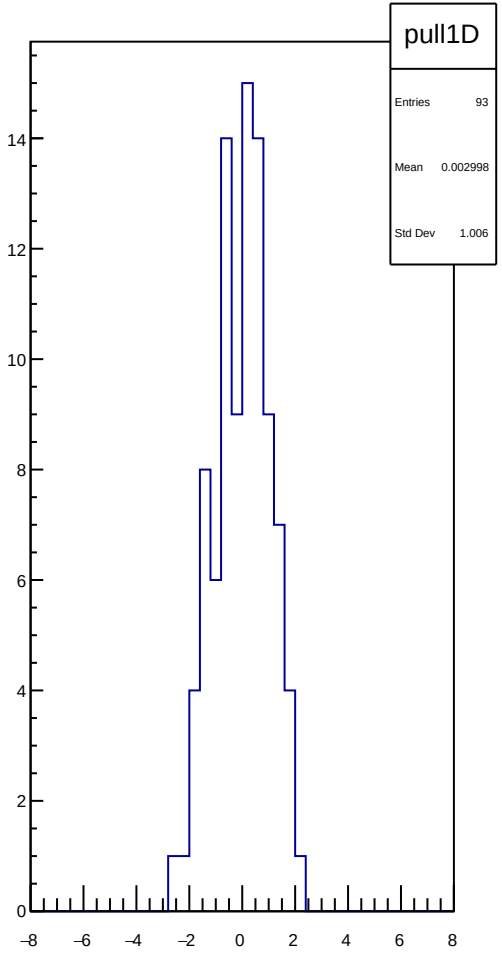

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.829e+04 / 92
p0 187.1 ± 0.1414
400
350
300
250
200
150

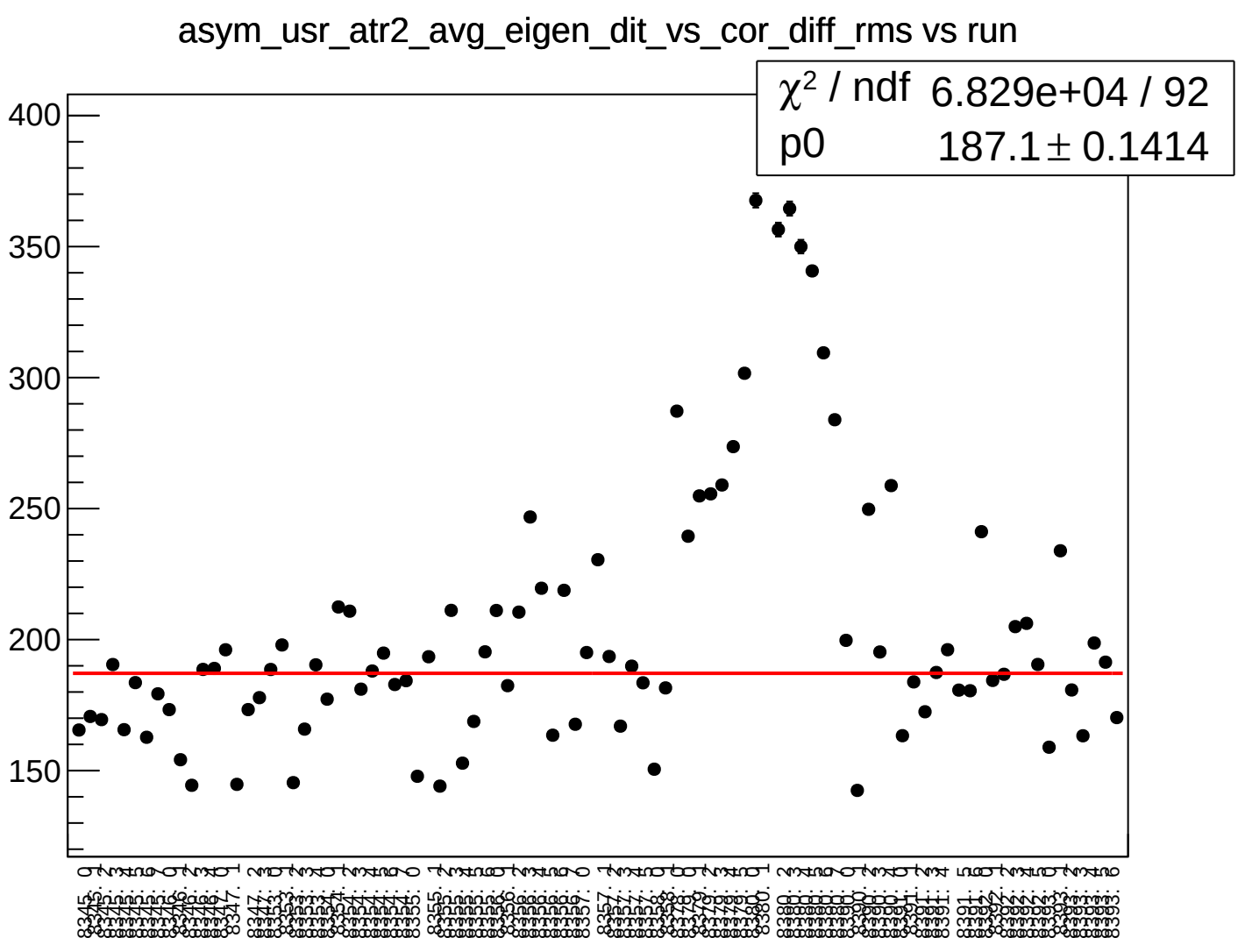

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 110.8 / 92
p0 −3.251e−05 ± 1.063e−05
pull
Entries 93
Mean 189.4
Std Dev 0

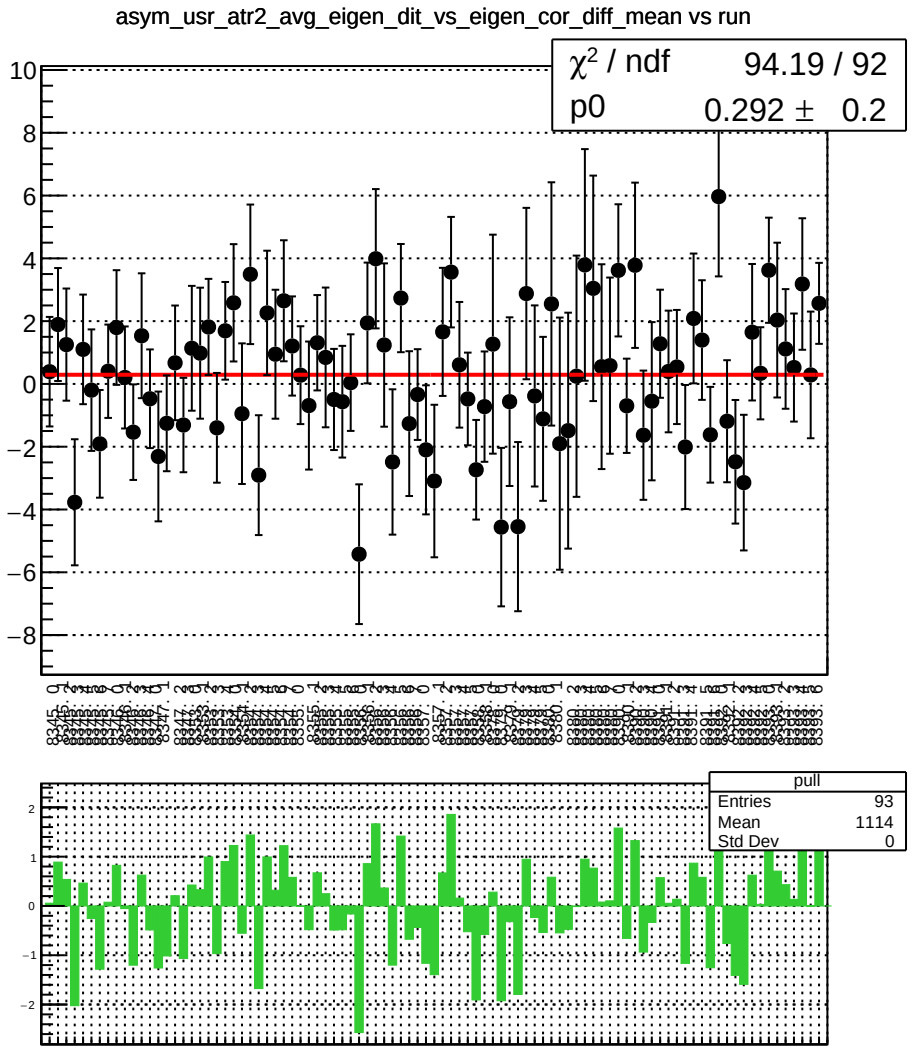

pull1D
Entries 93
Mean −0.06135
Std Dev 1.09

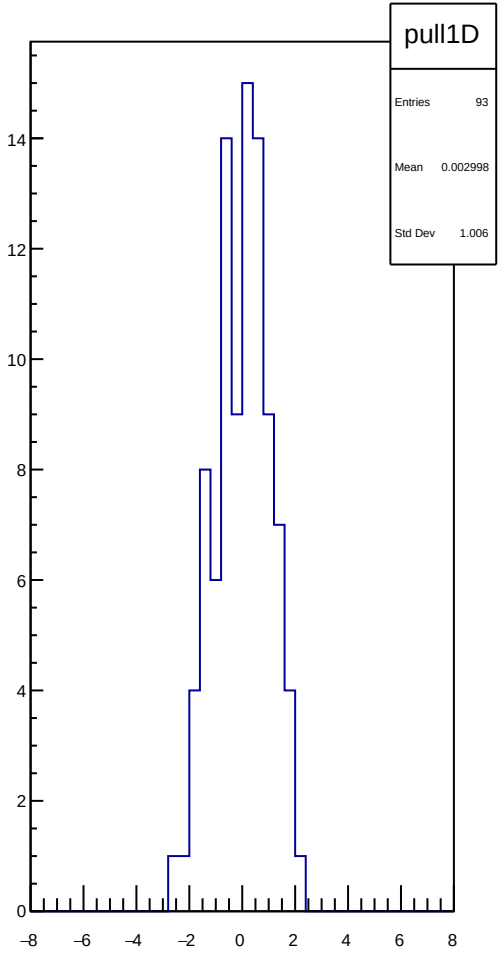

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.519e+04 / 92
p0 0.009929 ± 7.519e−06
0.018
0.016
0.014
0.012
0.01
0.008

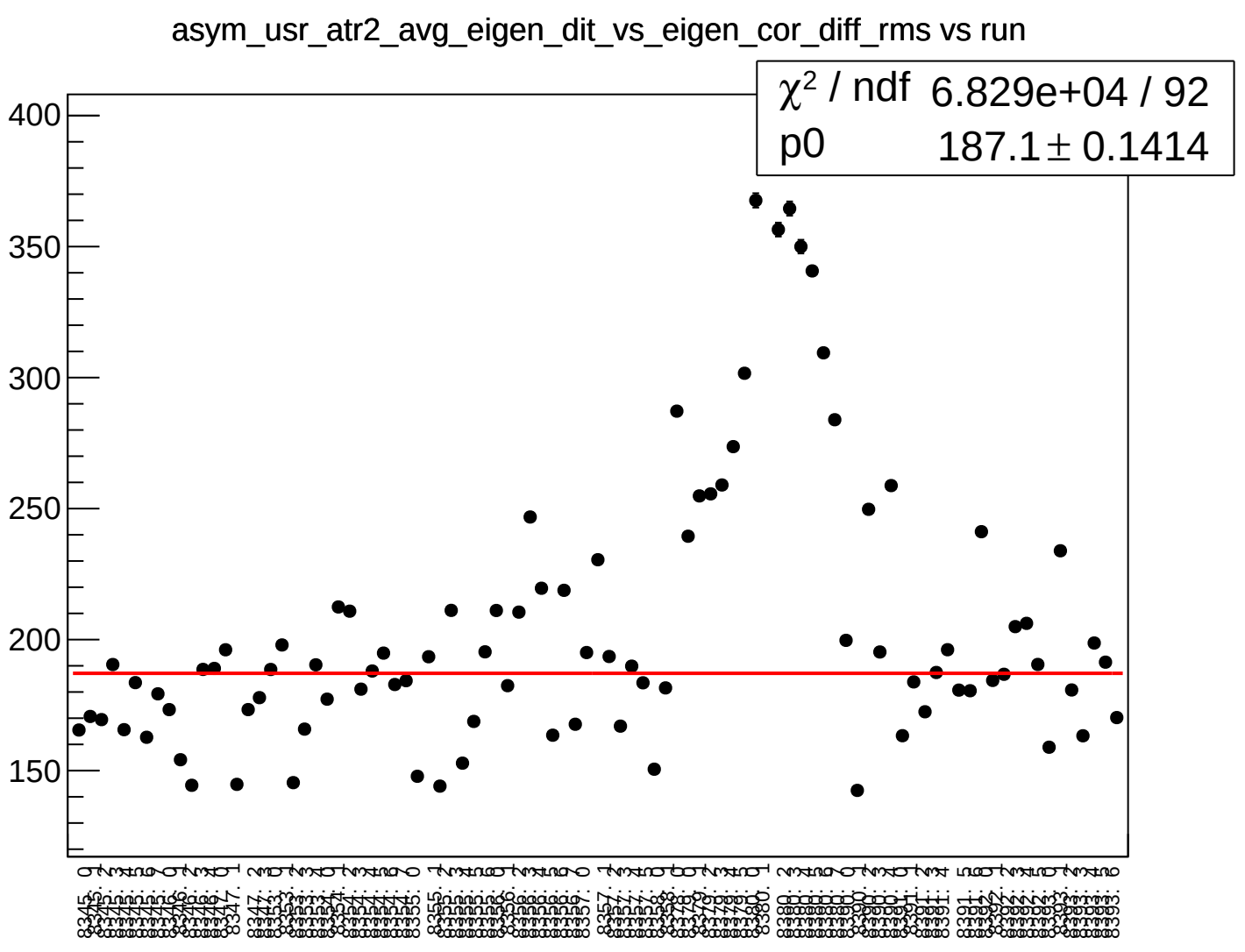

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.19 / 92
p0 0.292 ± 0.2
pull
Entries 93
Mean 1114
Std Dev 0

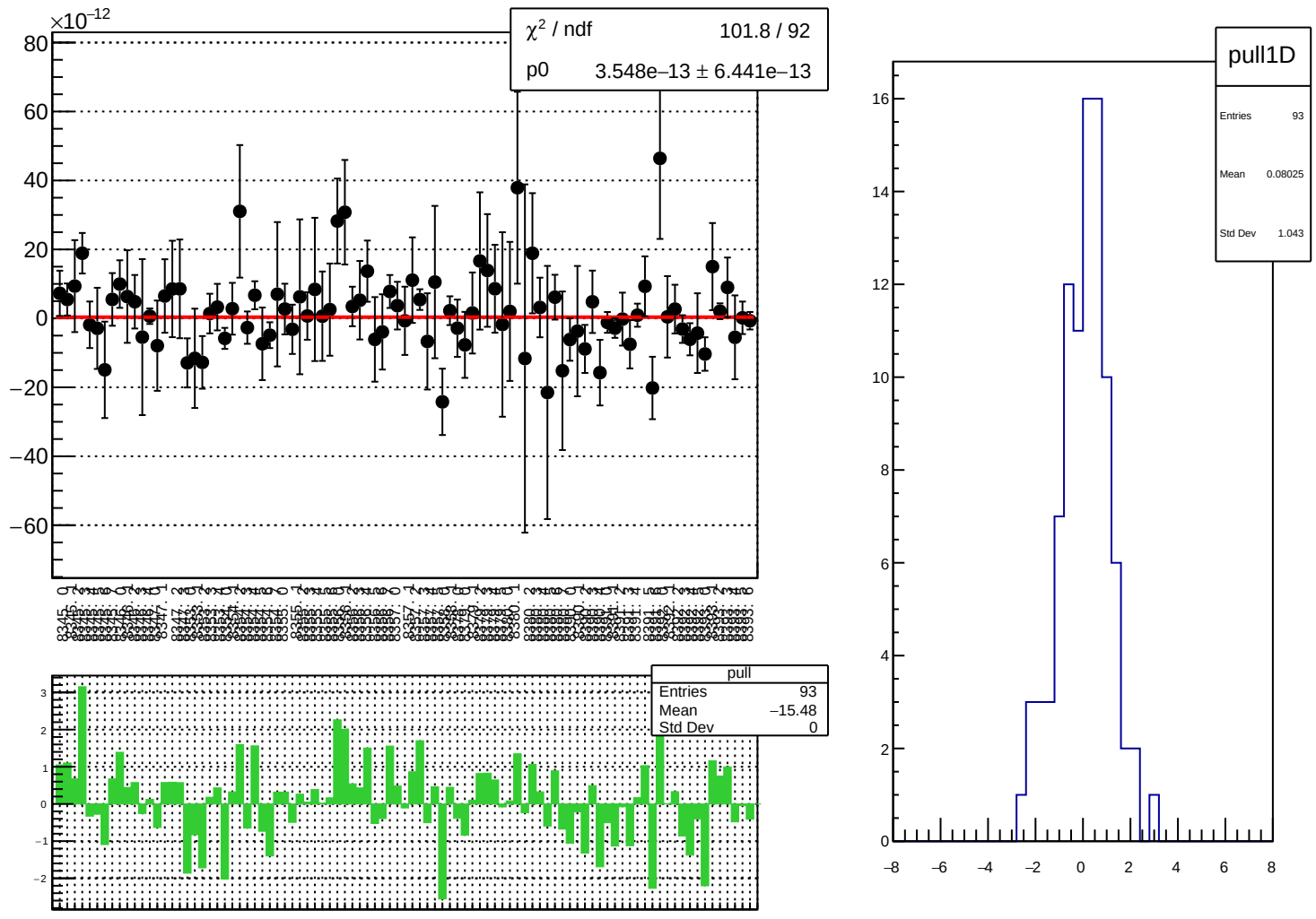

pull1D
Entries 93
Mean 0.002998
Std Dev 1.006

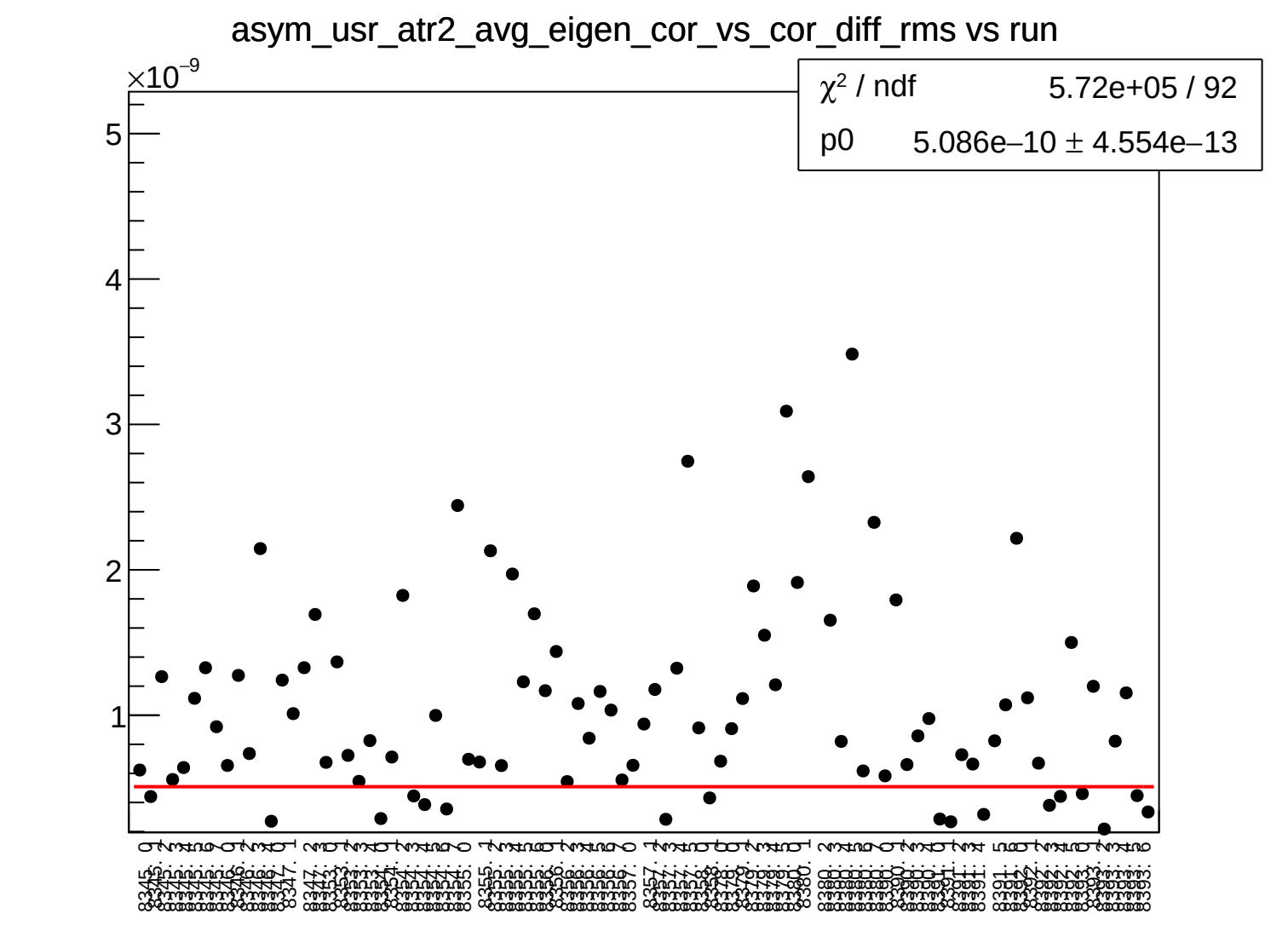

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.829e+04 / 92
p0 187.1 ± 0.1414
400
350
300
250
200
150

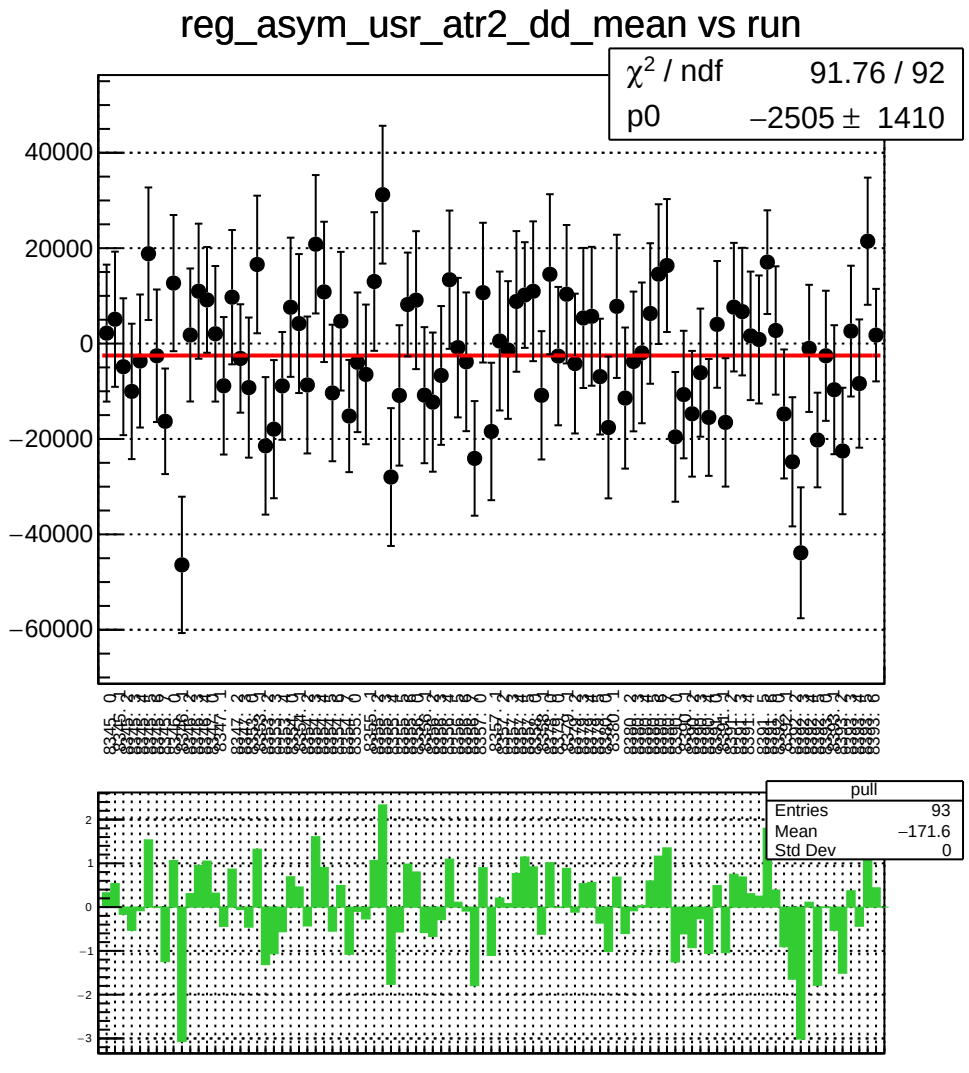

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.19 / 92
p0 0.292 ± 0.2
pull
Entries 93
Mean 1114
Std Dev 0

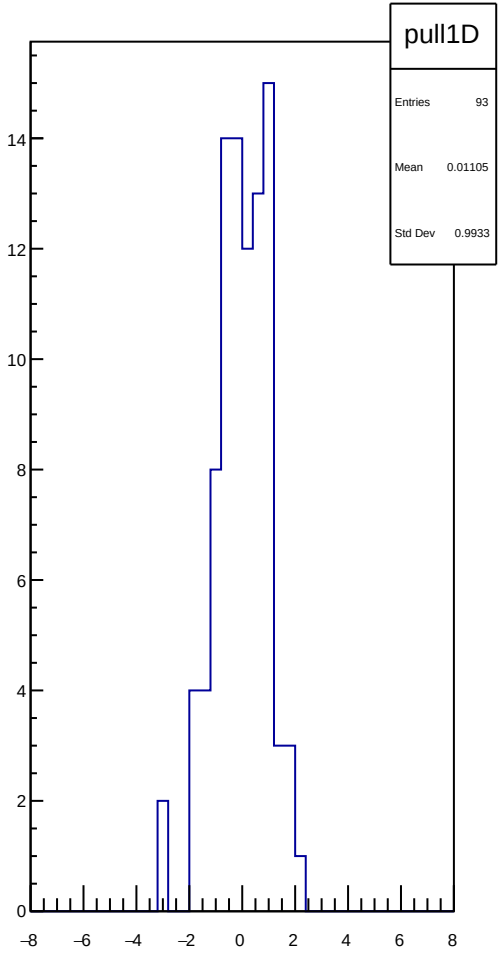

pull1D
Entries 93
Mean 0.002998
Std Dev 1.006

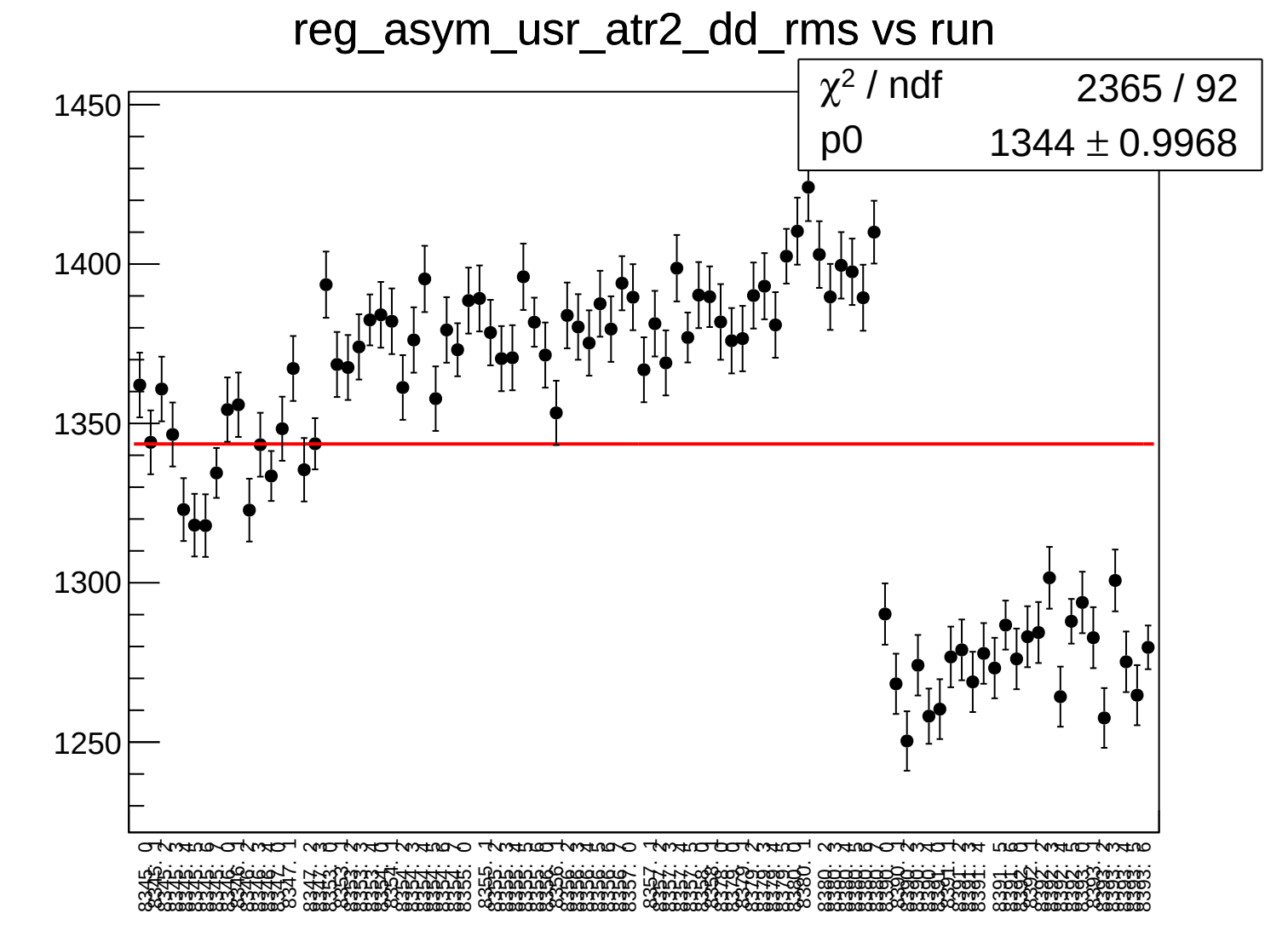

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.829e+04 / 92
p0 187.1 ± 0.1414
400
350
300
250
200
150

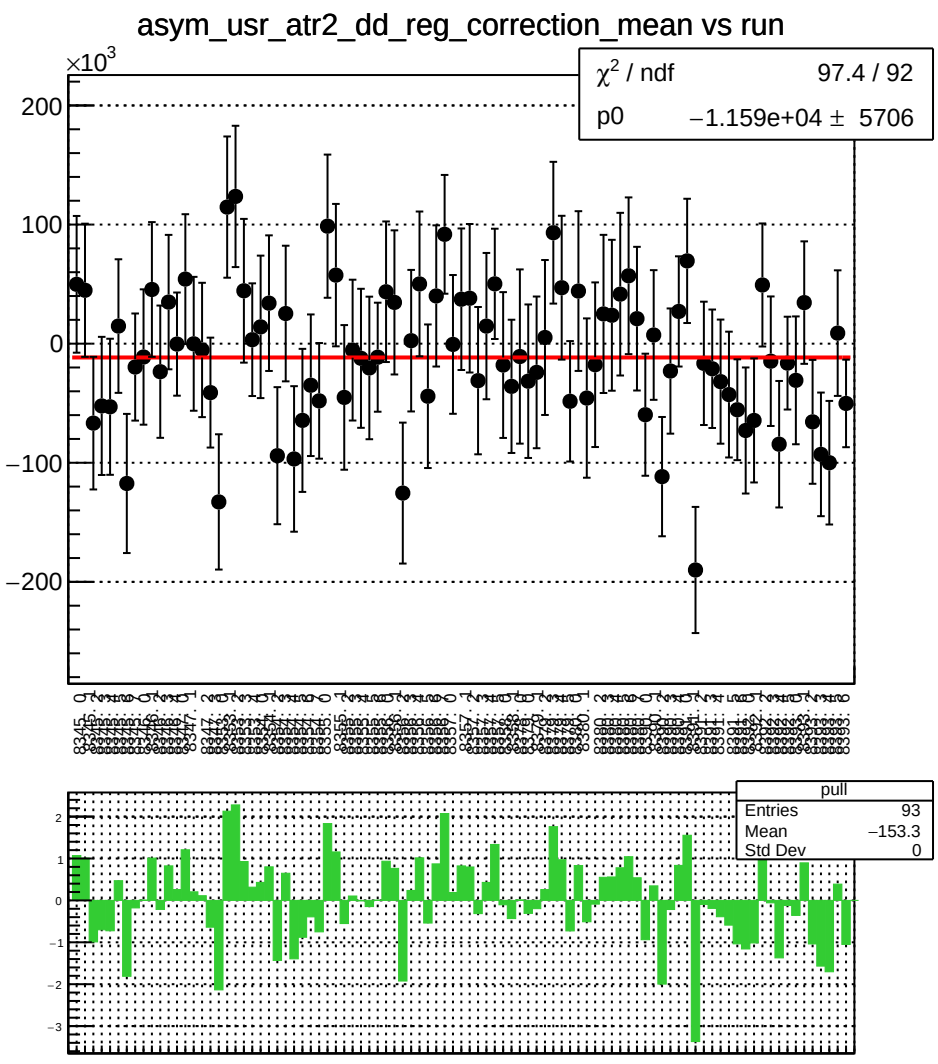

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 101.8 / 92
p0 3.548e−13 ± 6.441e−13
pull
Entries 93
Mean −15.48
Std Dev 0
pull1D
Entries 93
Mean 0.08025
Std Dev 1.043

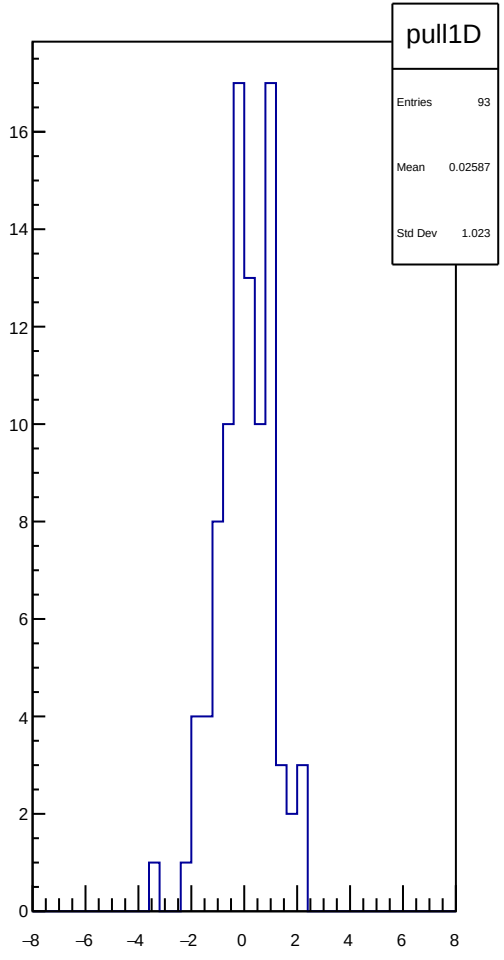

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.72e+05 / 92
p0 5.086e−10 ± 4.554e−13
5
4
3
2
1

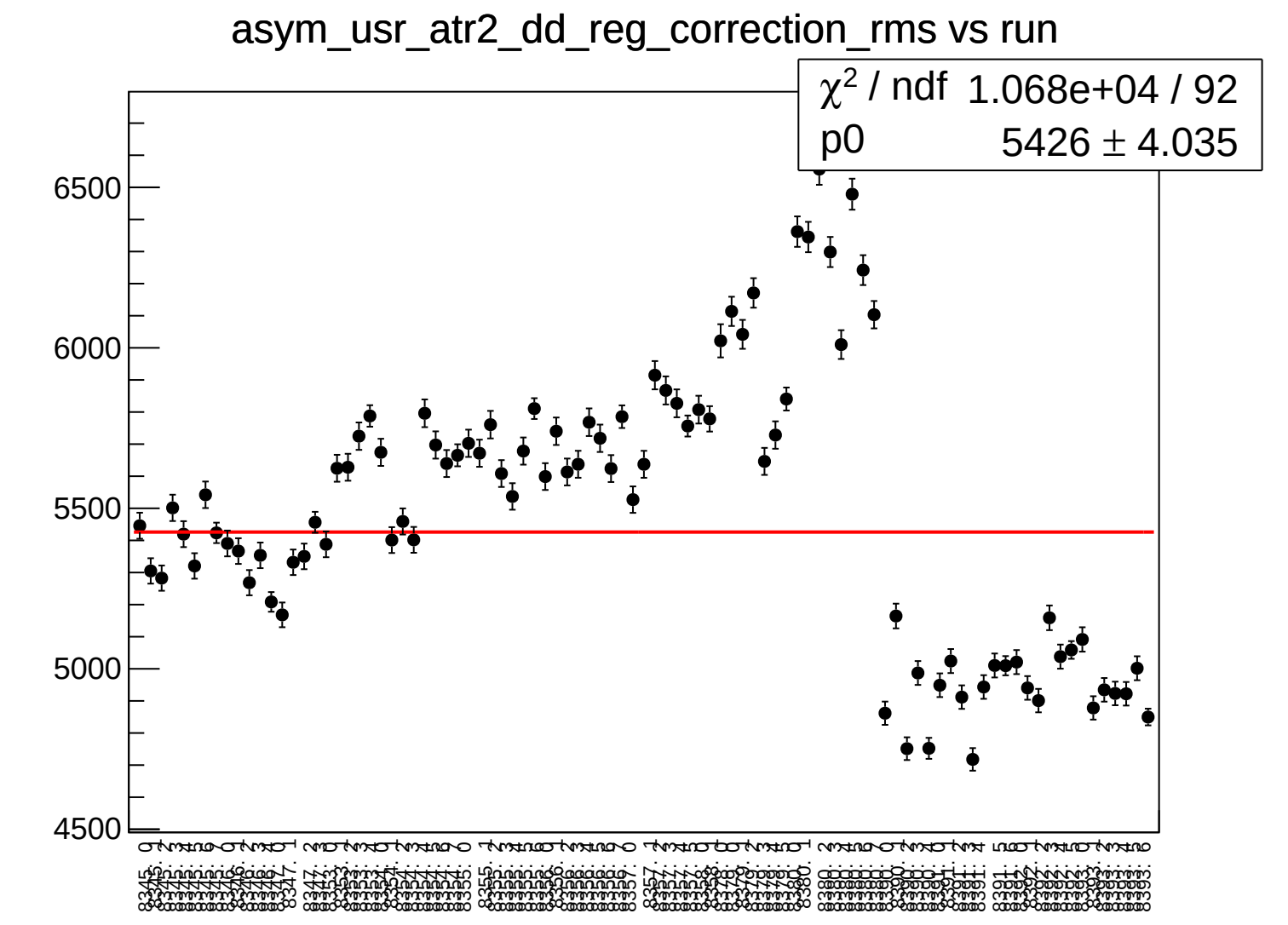

reg_asym_usr_atr2_dd_mean vs run
χ² / ndf 91.76 / 92
p0 −2505 ± 1410
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −171.6
Std Dev 0
2
1
0
−1
−2
−3

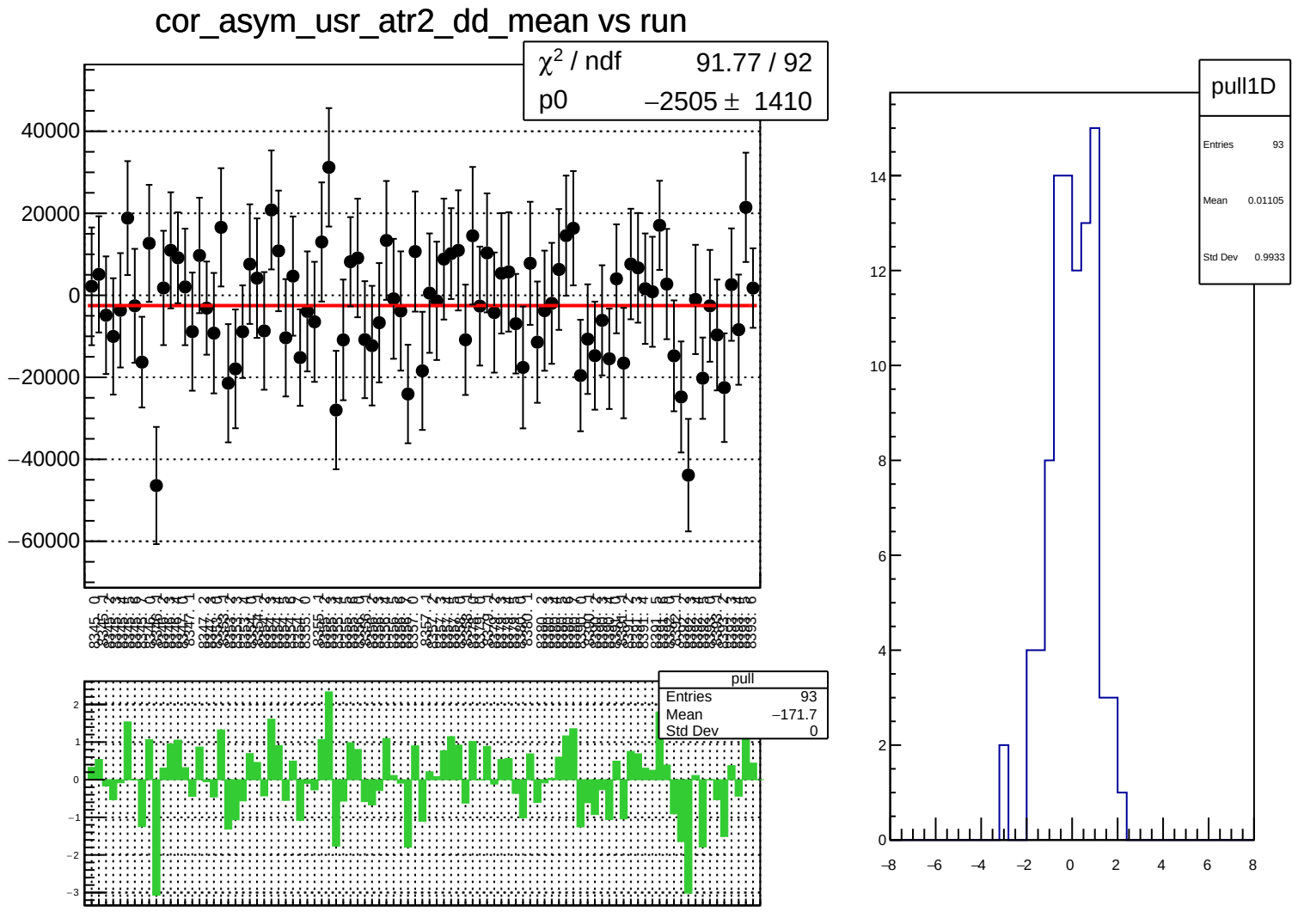

pull1D
Entries 93
Mean 0.01105
Std Dev 0.9933
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

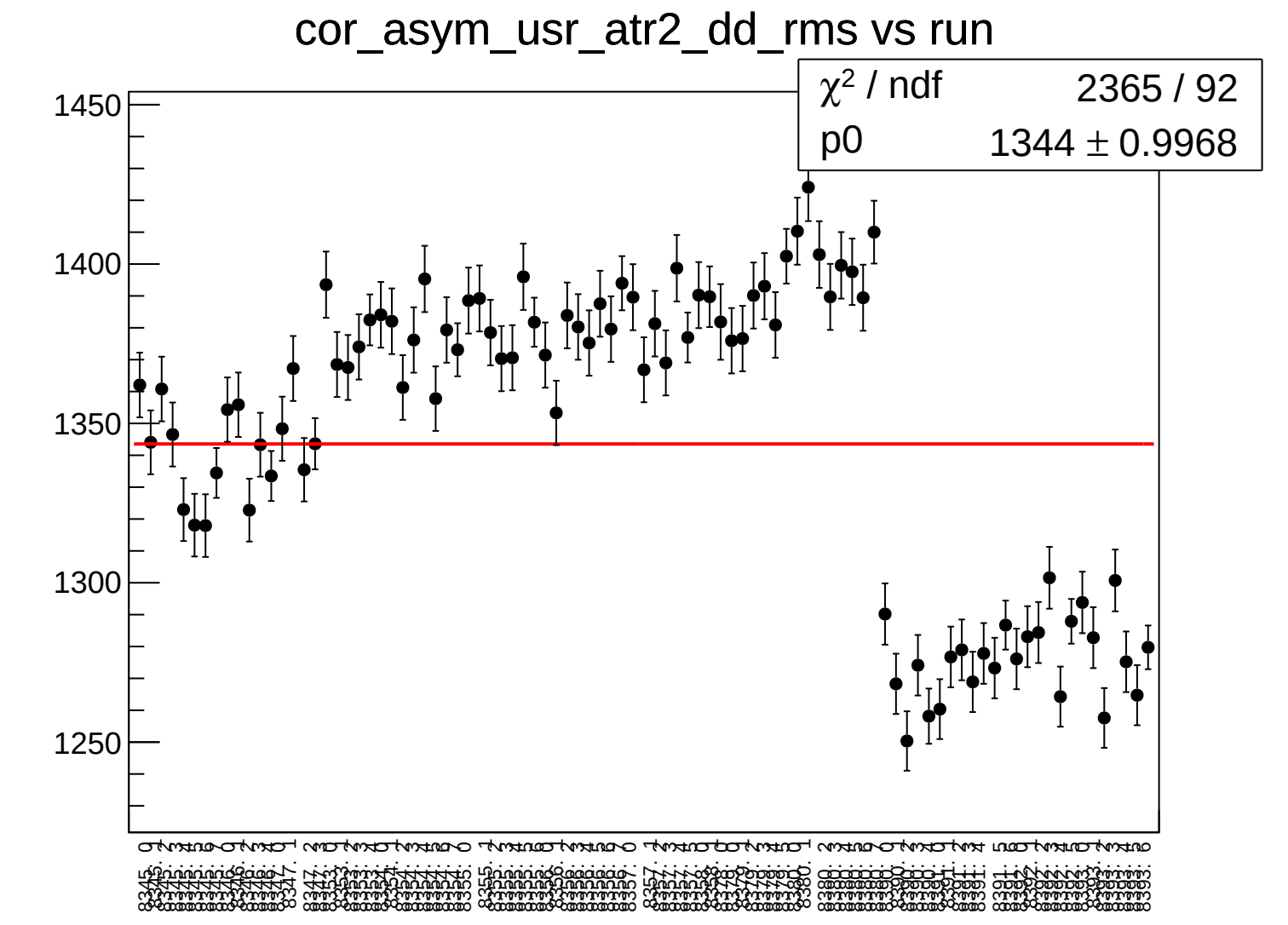

reg_asym_usr_atr2_dd_rms vs run
χ² / ndf 2365 / 92
p0 1344 ± 0.9968
1450
1400
1350
1300
1250

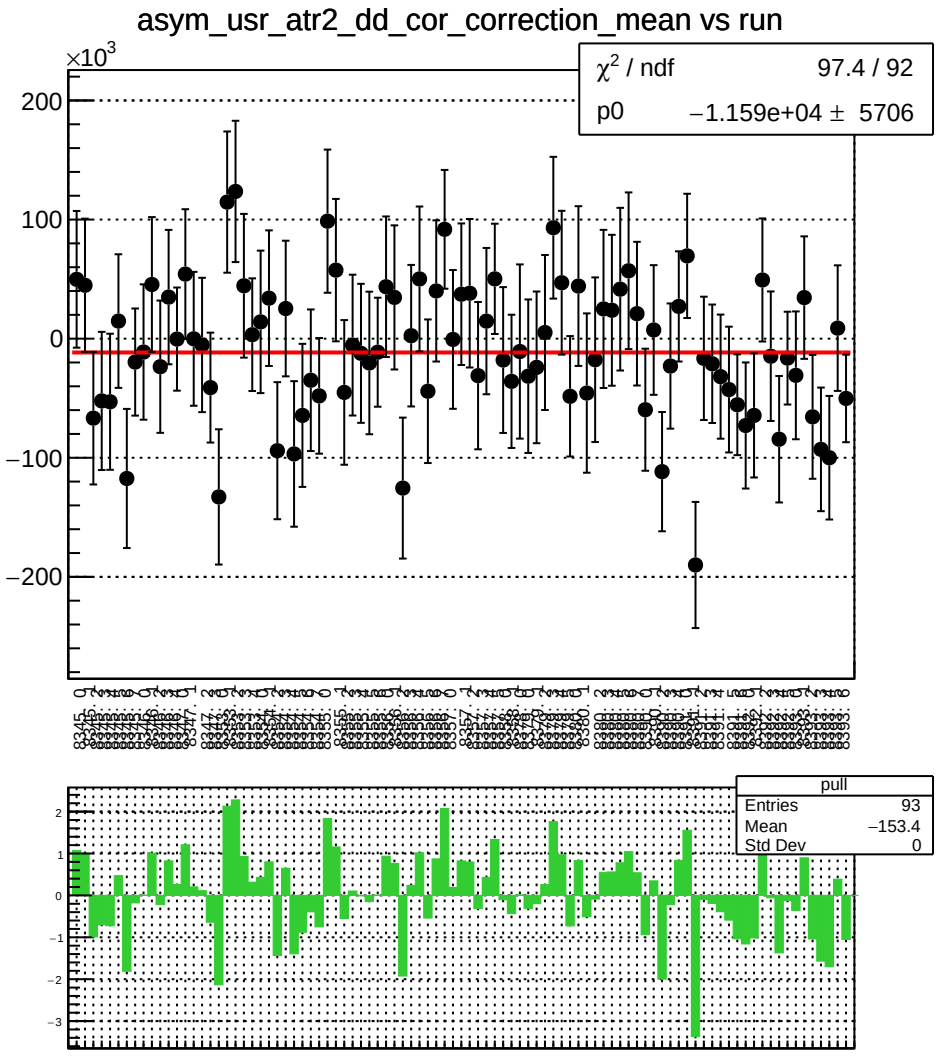

asym_usr_atr2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 97.4 / 92
p0 −1.159e+04 ± 5706
200
100
0
−100
−200
pull
Entries 93
Mean −153.3
Std Dev 0
2
1
0
−1
−2
−3

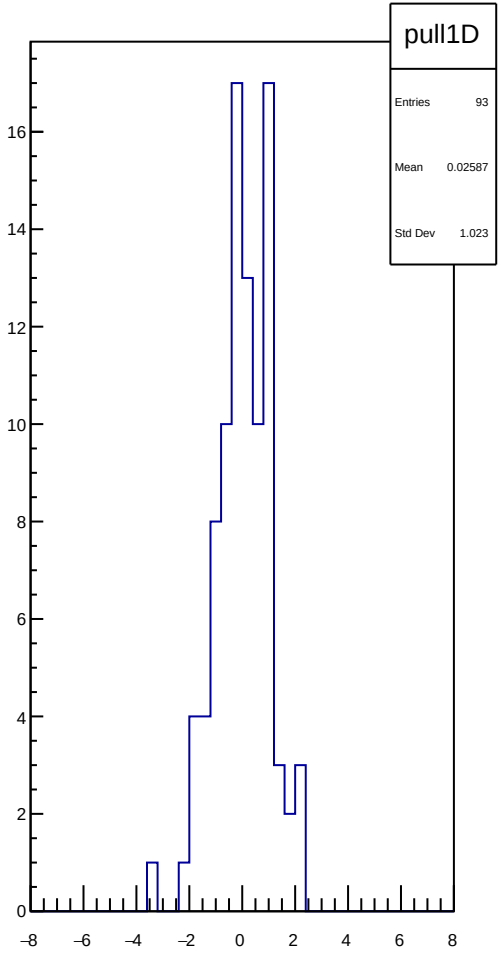

pull1D
Entries 93
Mean 0.02587
Std Dev 1.023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

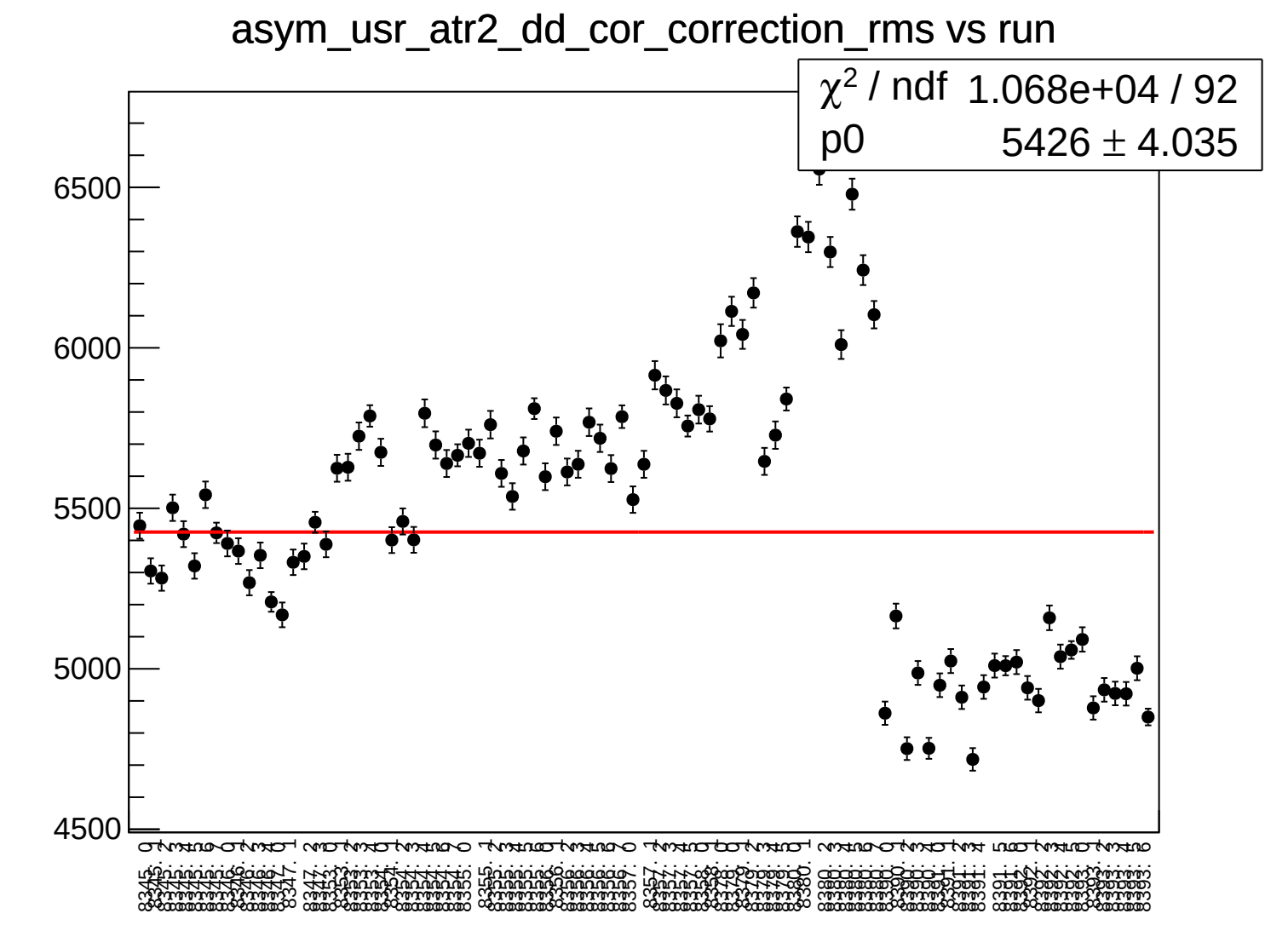

asym_usr_atr2_dd_reg_correction_rms vs run
χ² / ndf 1.068e+04 / 92
p0 5426 ± 4.035
6500
6000
5500
5000
4500

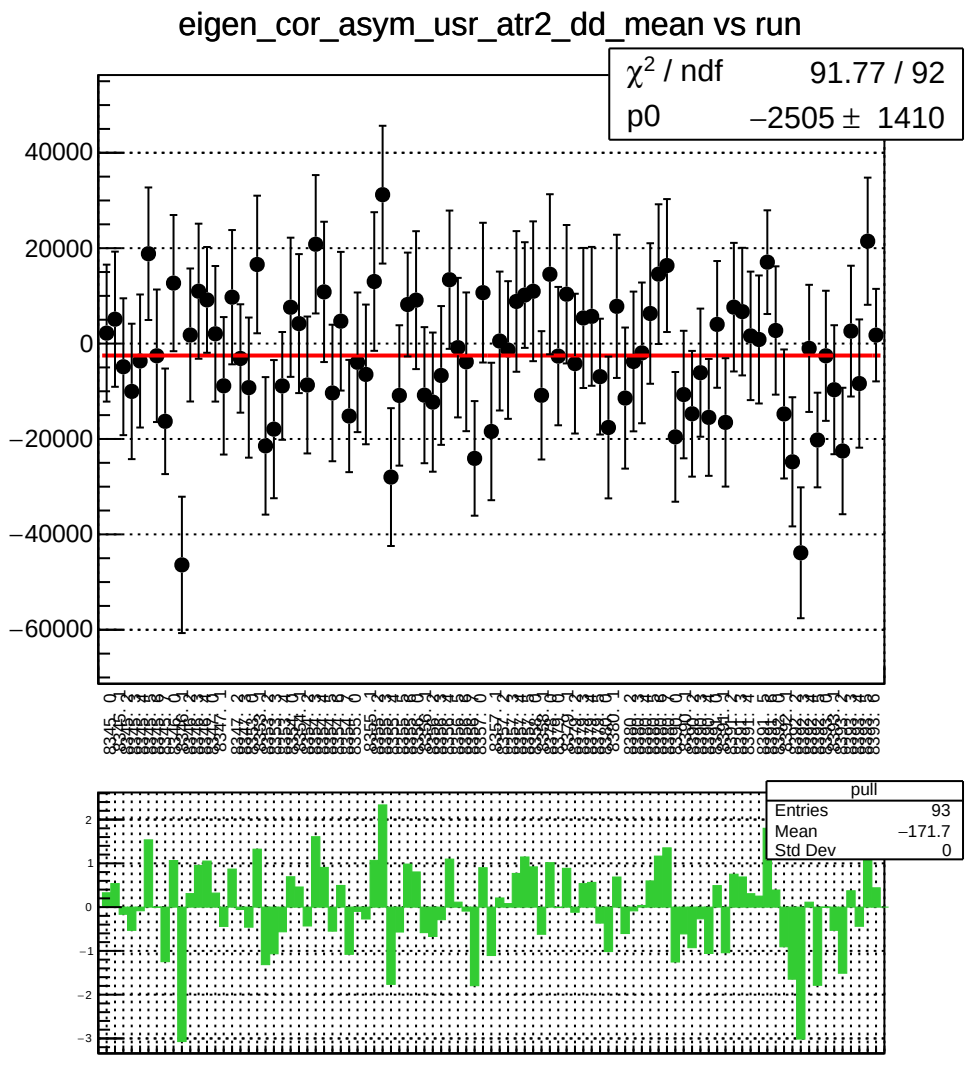

cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 91.77 / 92
p0 −2505 ± 1410
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −171.7
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.01105
Std Dev 0.9933
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

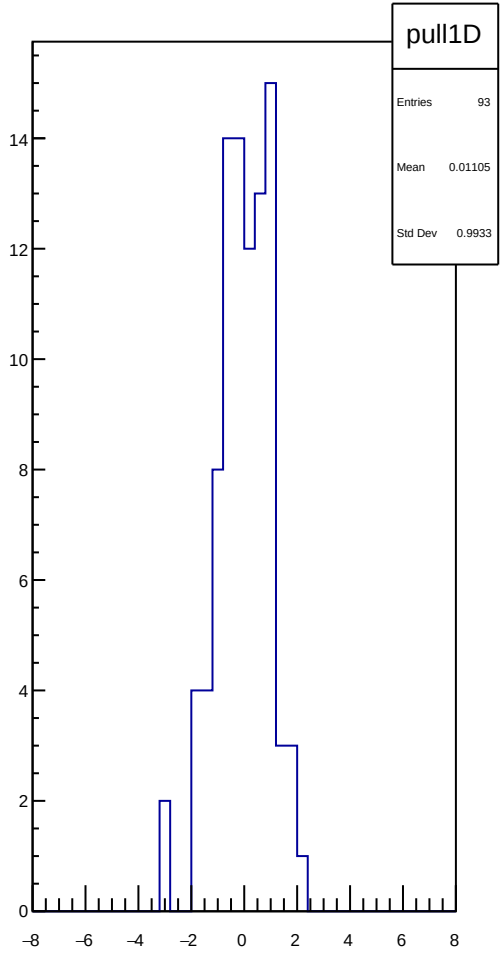

cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 2365 / 92
p0 1344 ± 0.9968
1450
1400
1350
1300
1250

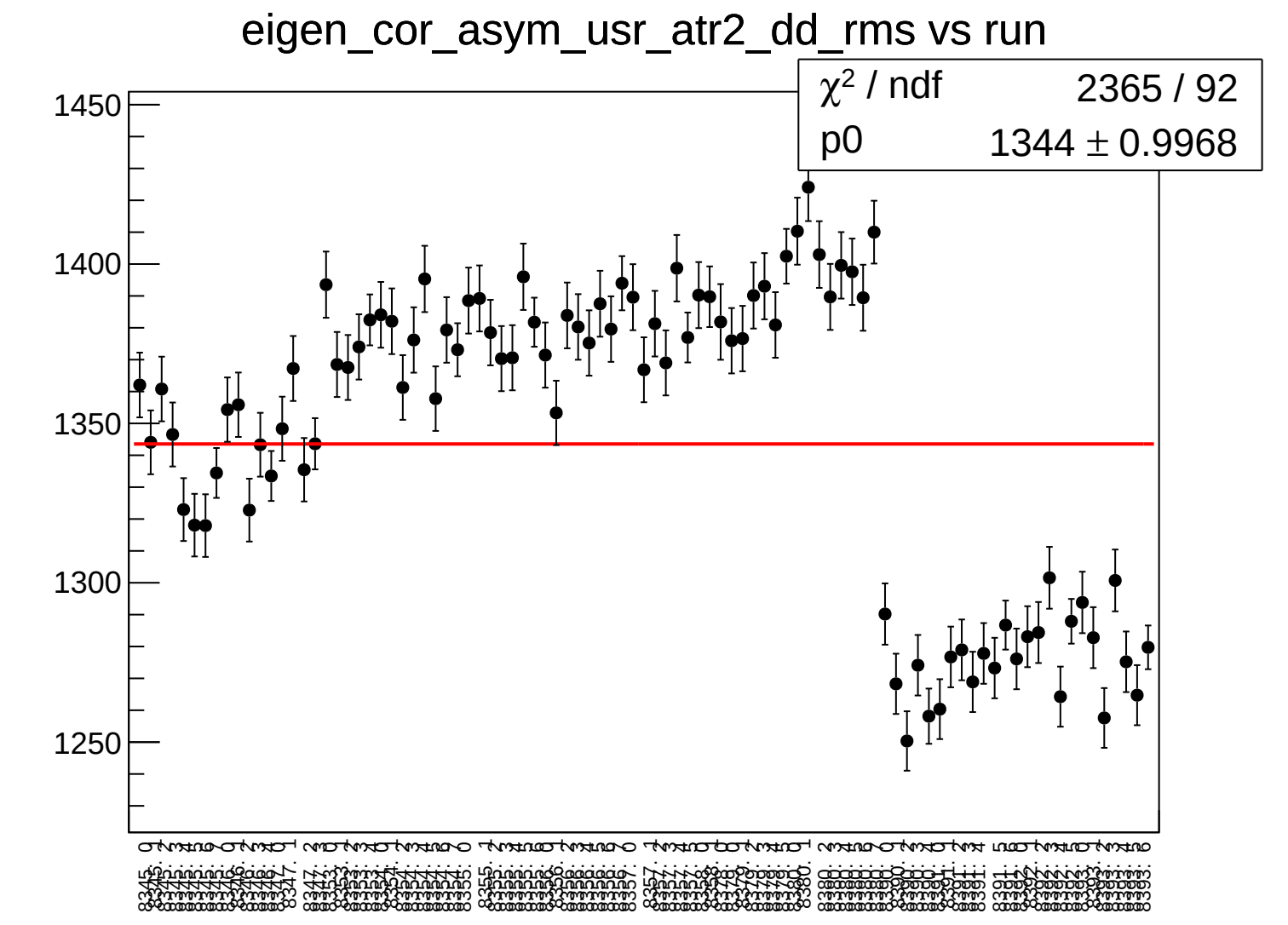

asym_usr_atr2_dd_cor_correction_mean vs run
×10^3
200
100
0
−100
−200
χ² / ndf 97.4 / 92
p0 −1.159e+04 ± 5706
pull
Entries 93
Mean −153.4
Std Dev 0
2
1
0
−1
−2
−3

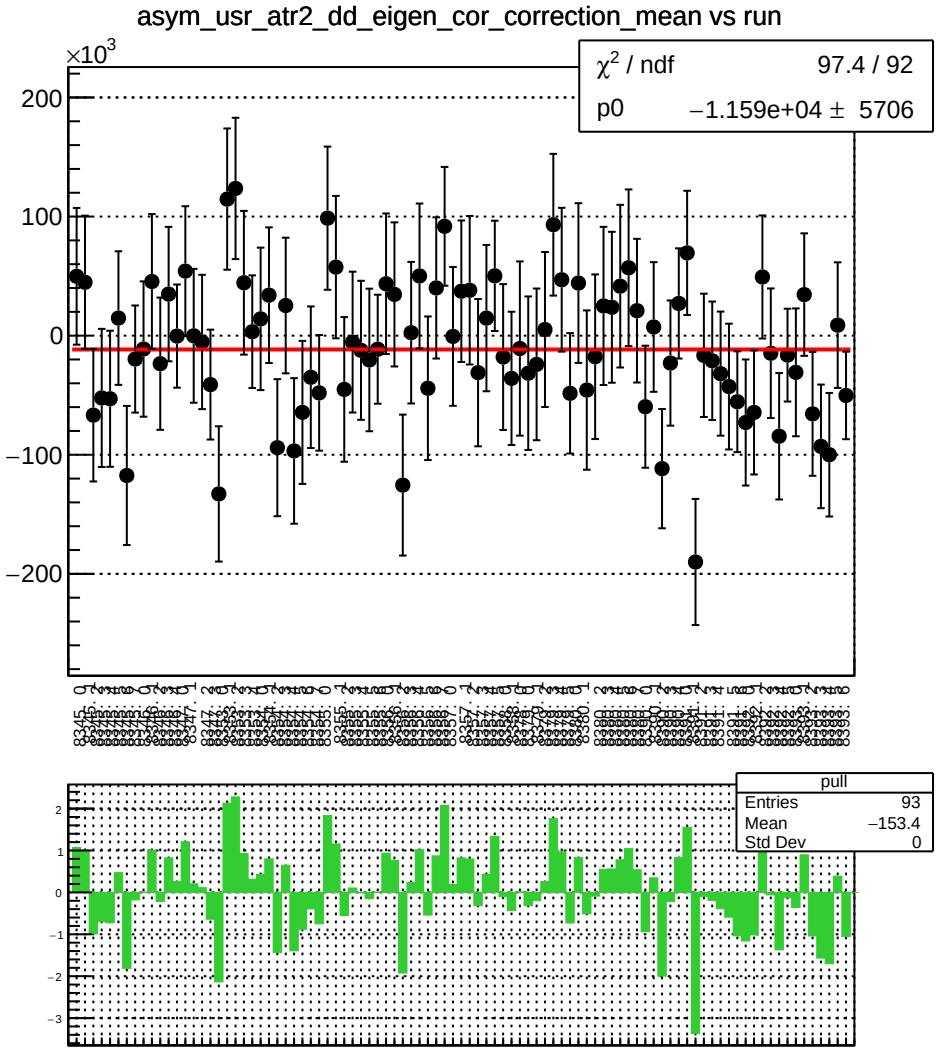

pull1D
Entries 93
Mean 0.02587
Std Dev 1.023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

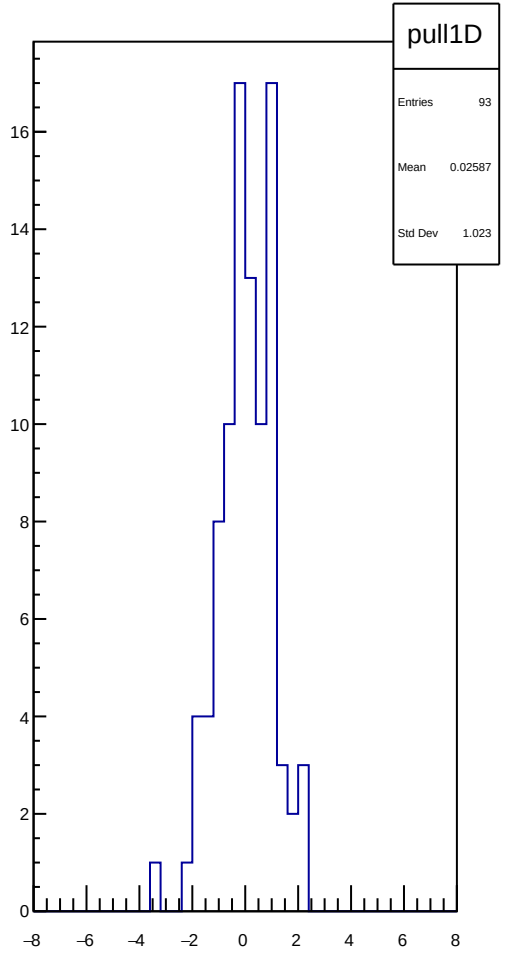

asym_usr_atr2_dd_cor_correction_rms vs run
χ² / ndf 1.068e+04 / 92
p0 5426 ± 4.035
6500
6000
5500
5000
4500

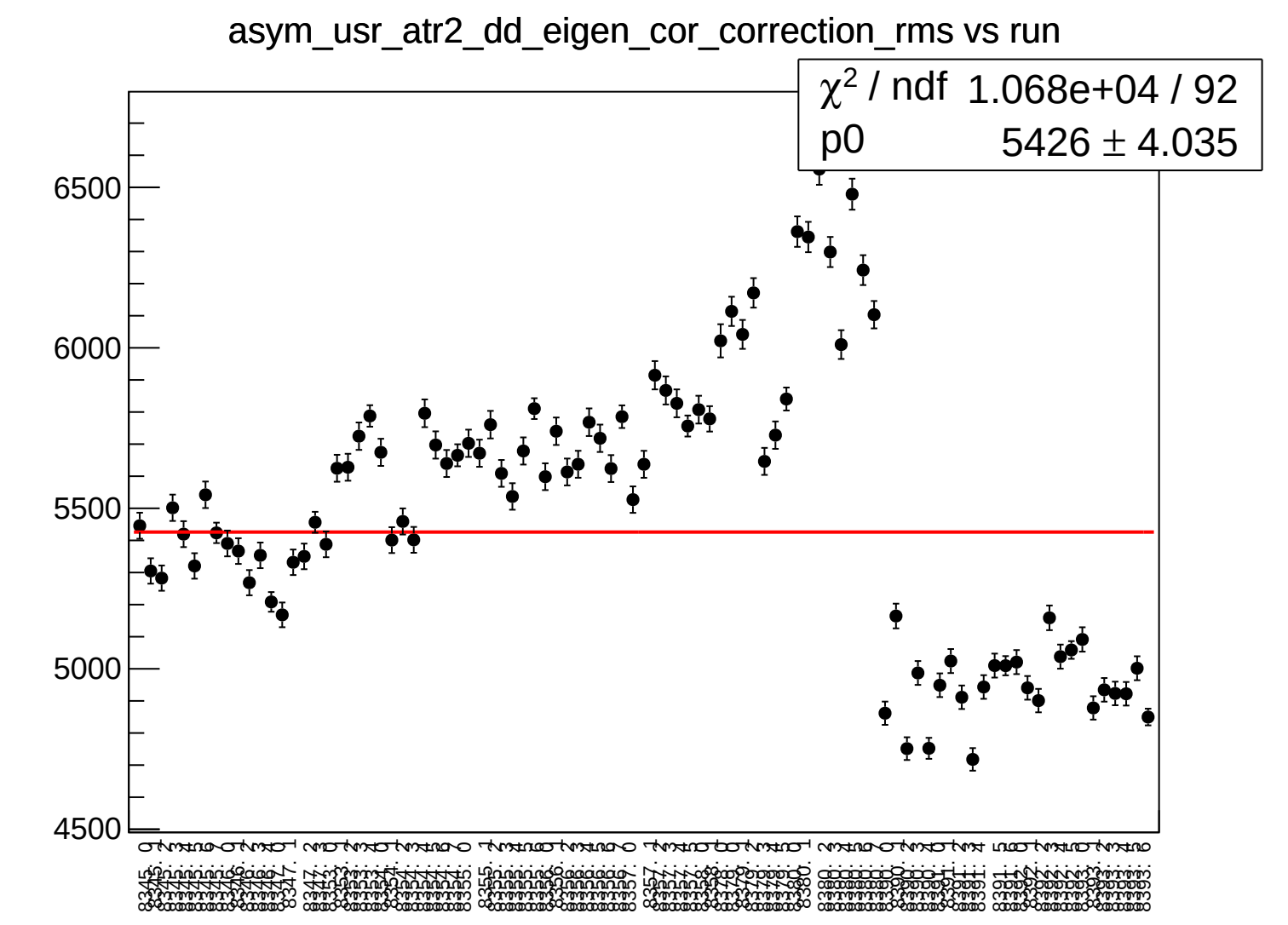

eigen_cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 91.77 / 92
p0 −2505 ± 1410
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −171.7
Std Dev 0
2
1
0
−1
−2
−3

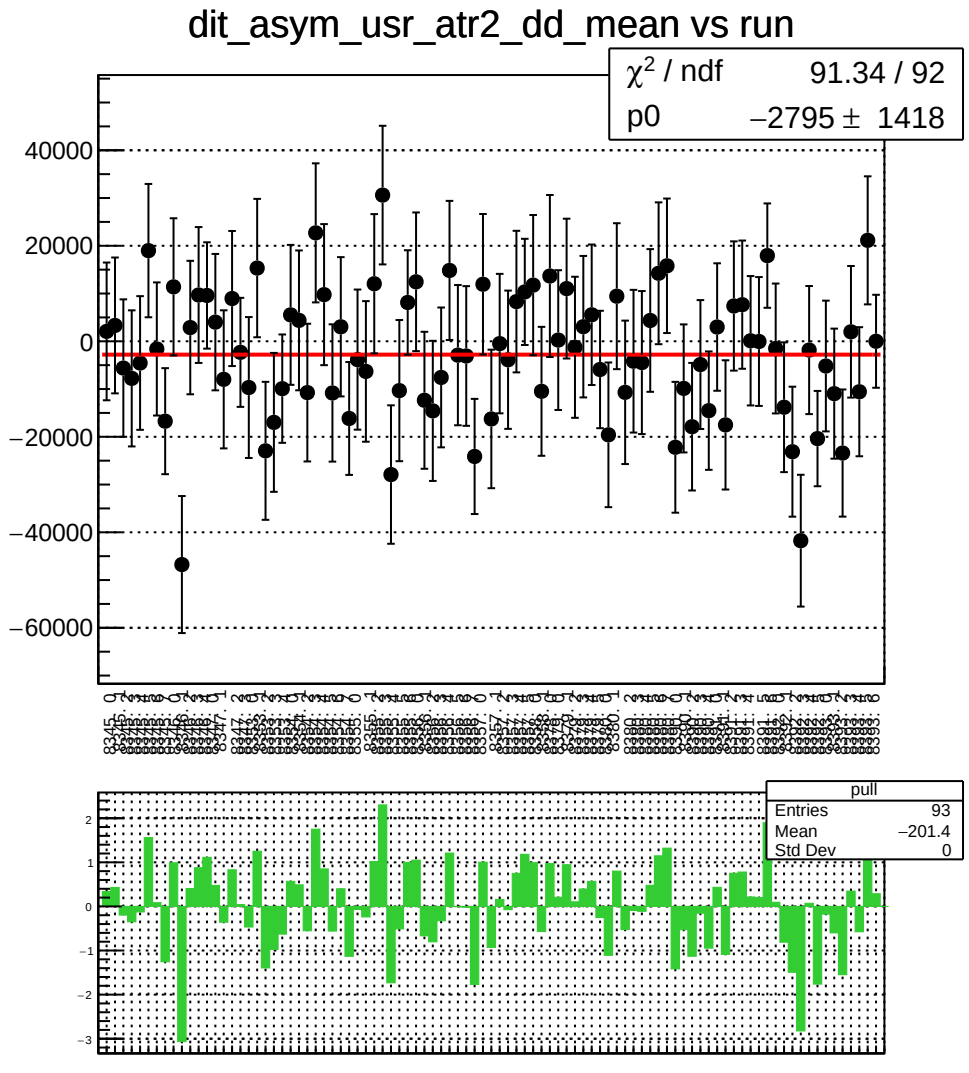

pull1D
Entries 93
Mean 0.01105
Std Dev 0.9933
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

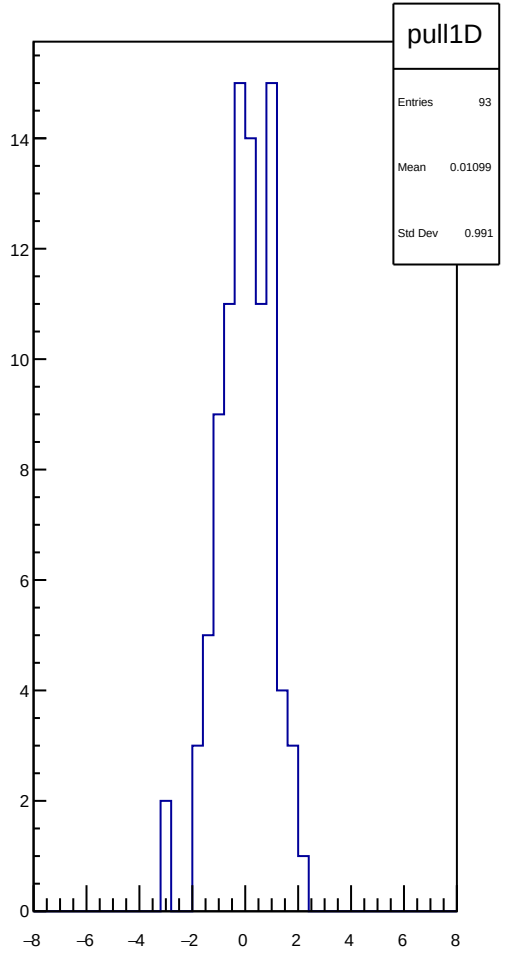

eigen_cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 2365 / 92
p0 1344 ± 0.9968
1450
1400
1350
1300
1250

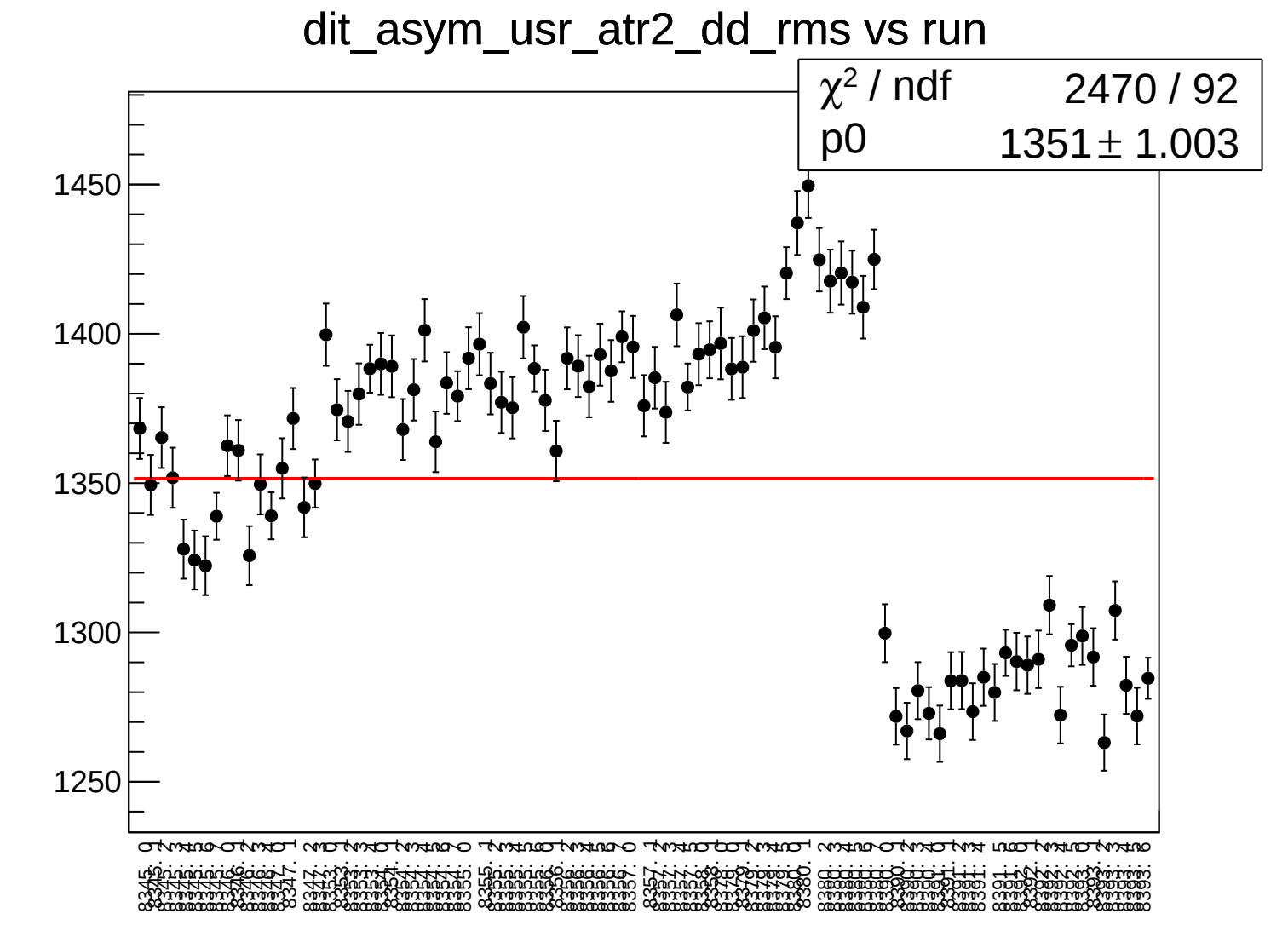

asym_usr_atr2_dd_eigen_cor_correction_mean vs run
×10^3
200
100
0
−100
−200
χ² / ndf 97.4 / 92
p0 −1.159e+04 ± 5706
pull
Entries 93
Mean −153.4
Std Dev 0
2
1
0
−1
−2
−3

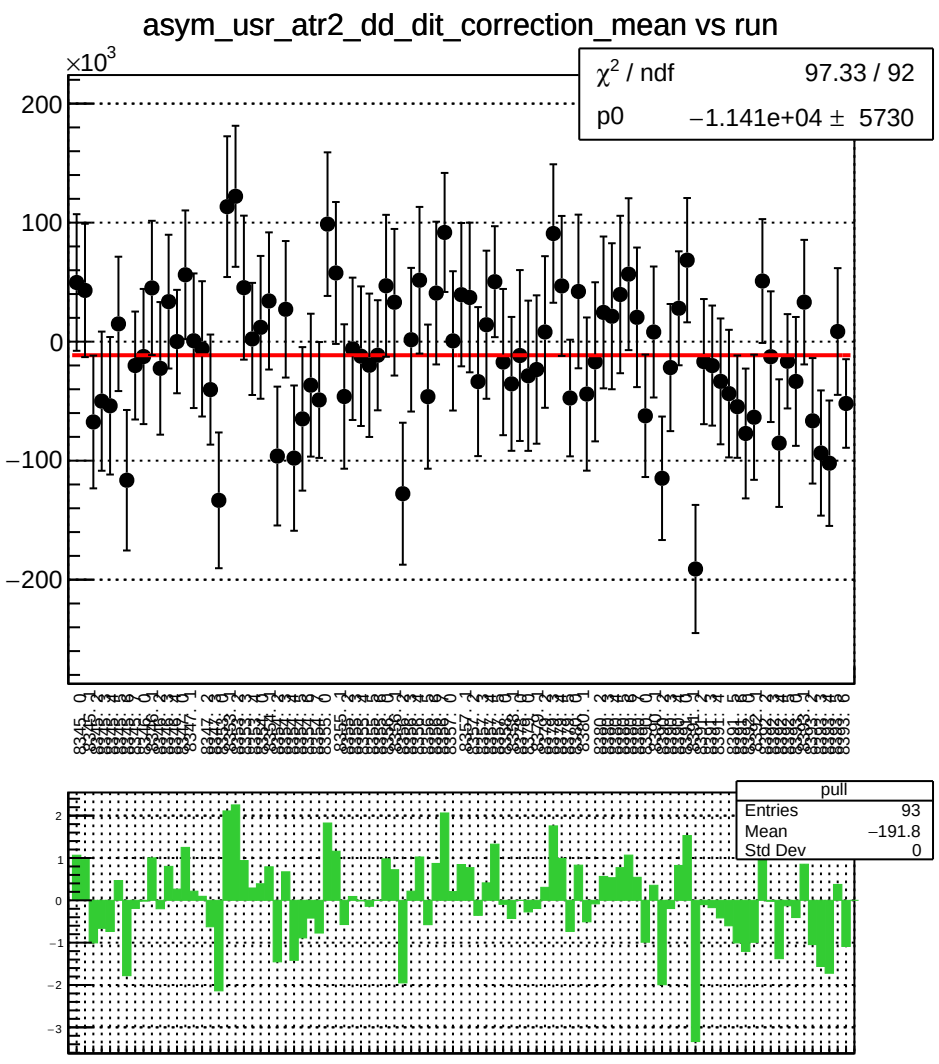

pull1D
Entries 93
Mean 0.02587
Std Dev 1.023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

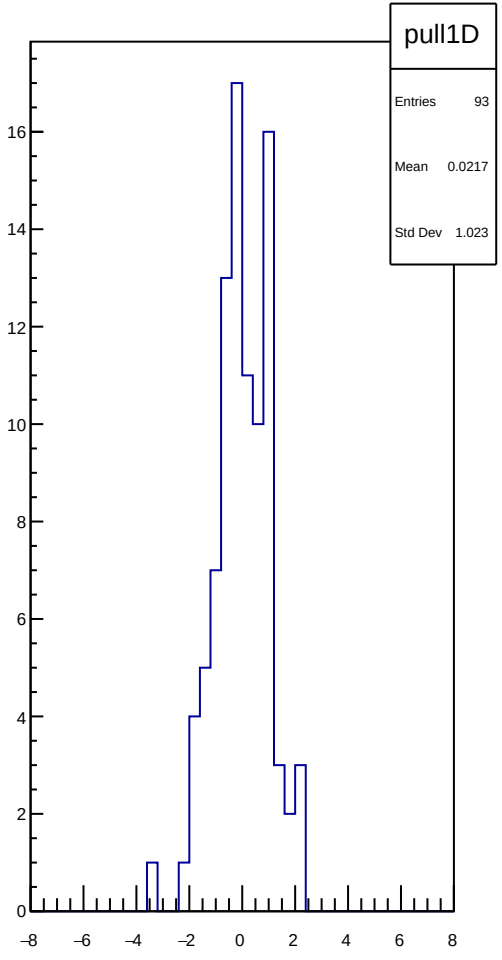

asym_usr_atr2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.068e+04 / 92
p0 5426 ± 4.035
6500
6000
5500
5000
4500

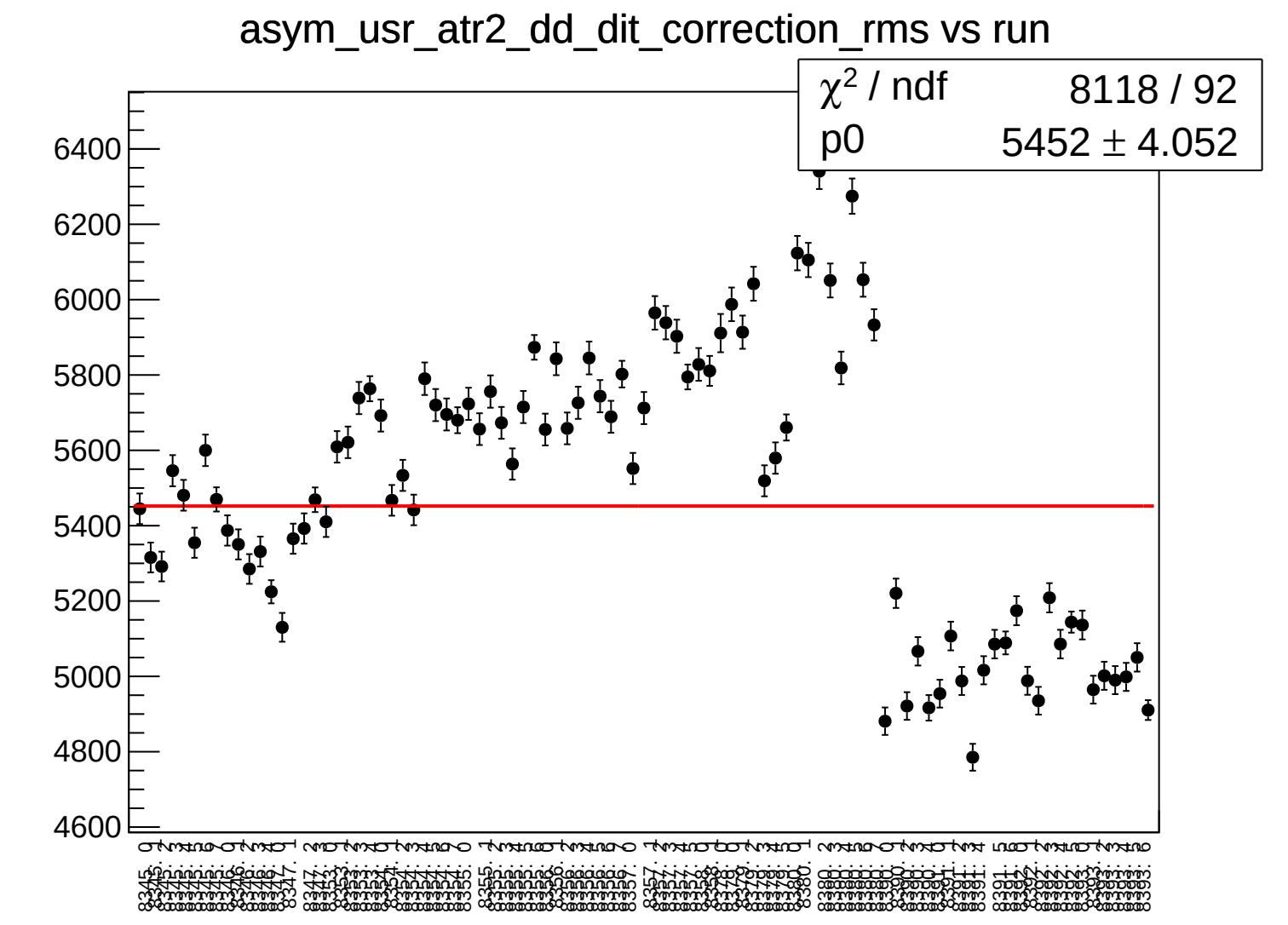

dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 91.34 / 92
p0 −2795 ± 1418
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −201.4
Std Dev 0
2
1
0
−1
−2
−3

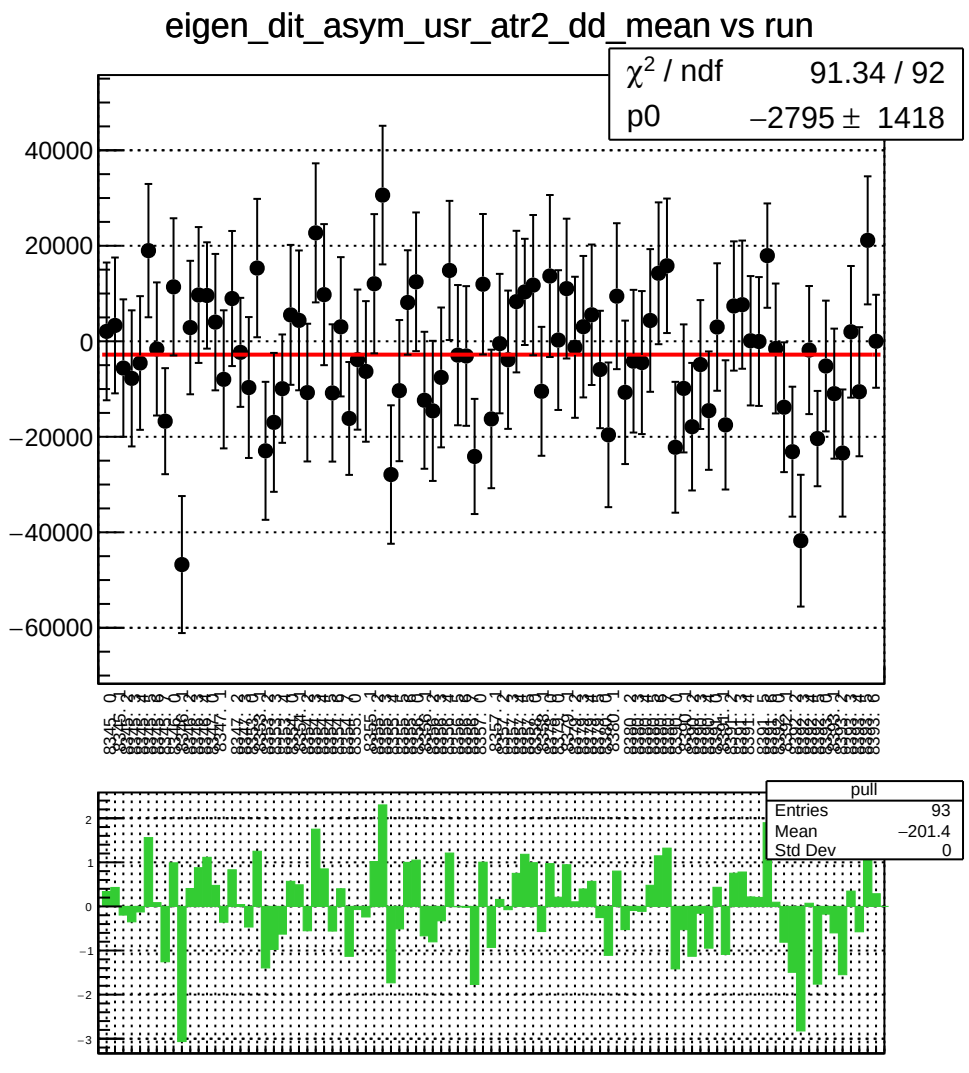

pull1D
Entries 93
Mean 0.01099
Std Dev 0.991
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

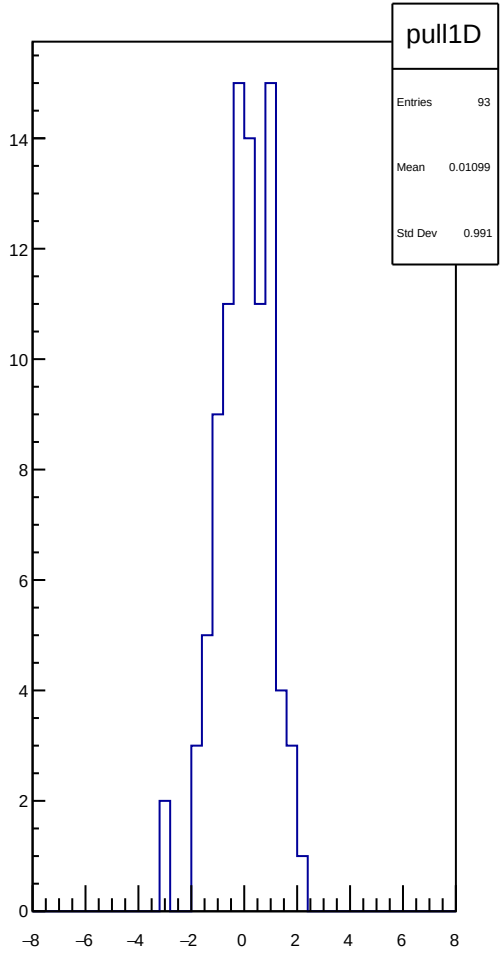

dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 2470 / 92
p0 1351 ± 1.003
1450
1400
1350
1300
1250

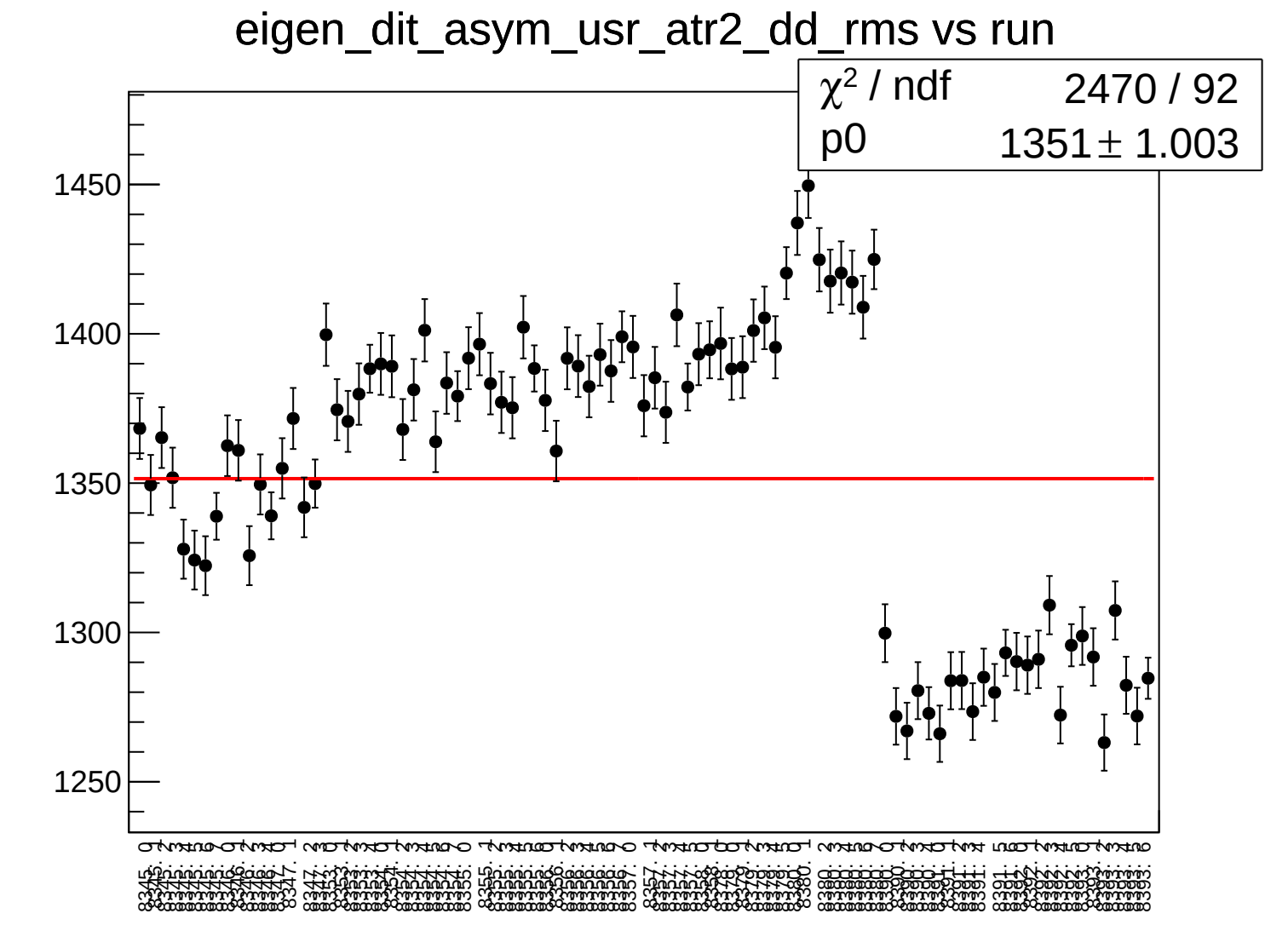

asym_usr_atr2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 97.33 / 92
p0 −1.141e+04 ± 5730
200
100
0
−100
−200
pull
Entries 93
Mean −191.8
Std Dev 0
2
1
0
−1
−2
−3

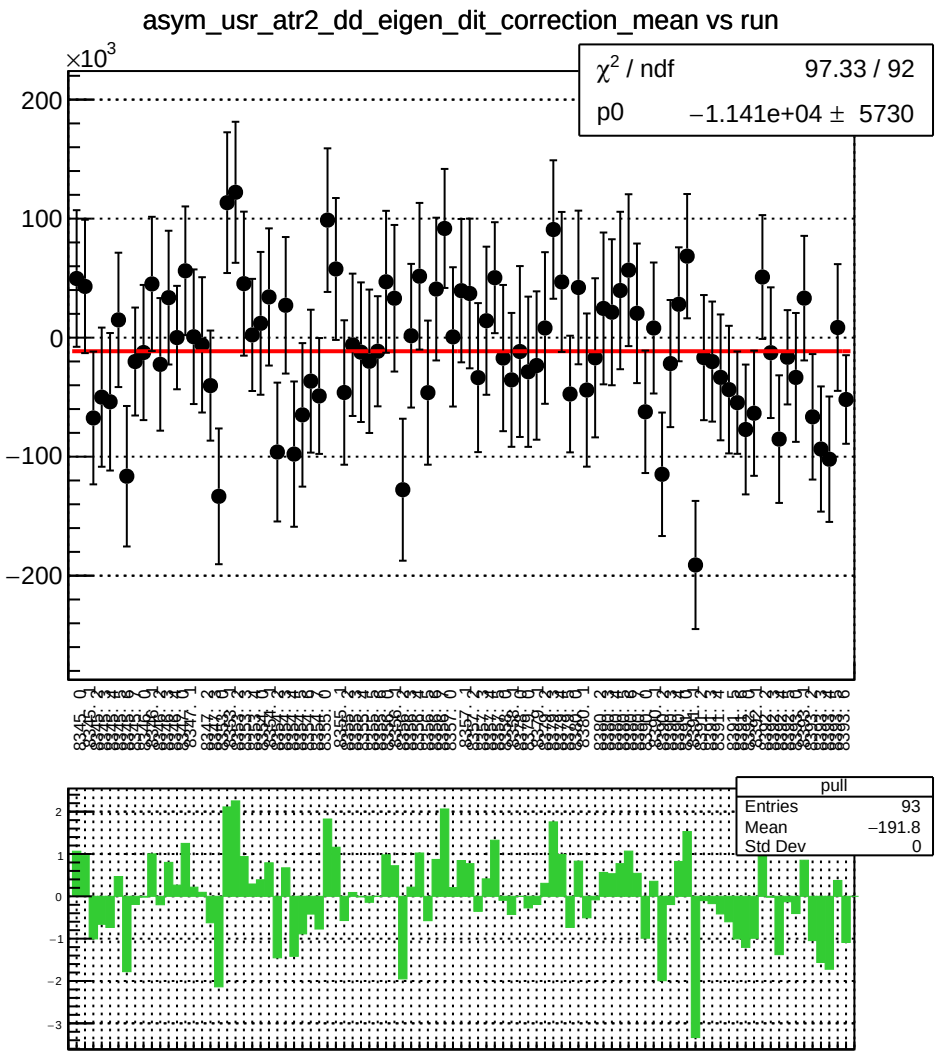

pull1D
Entries 93
Mean 0.0217
Std Dev 1.023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

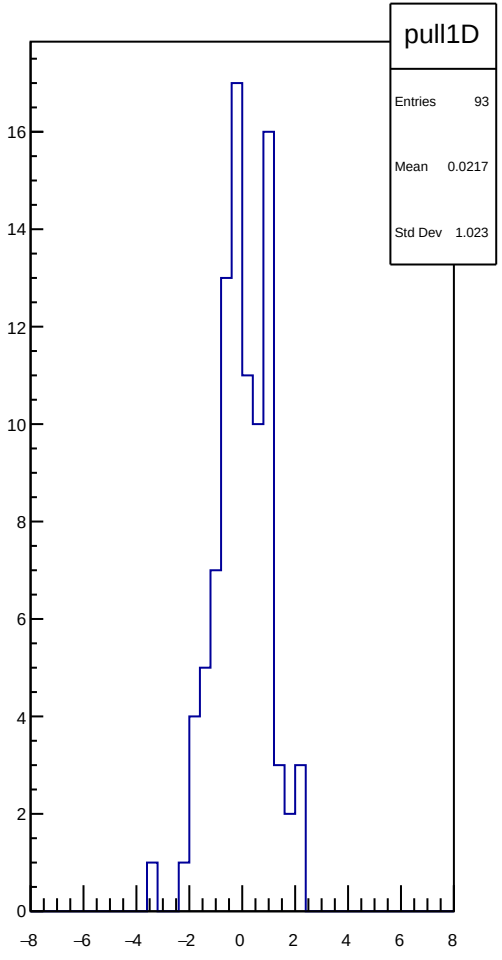

asym_usr_atr2_dd_dit_correction_rms vs run
χ² / ndf 8118 / 92
p0 5452 ± 4.052
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600

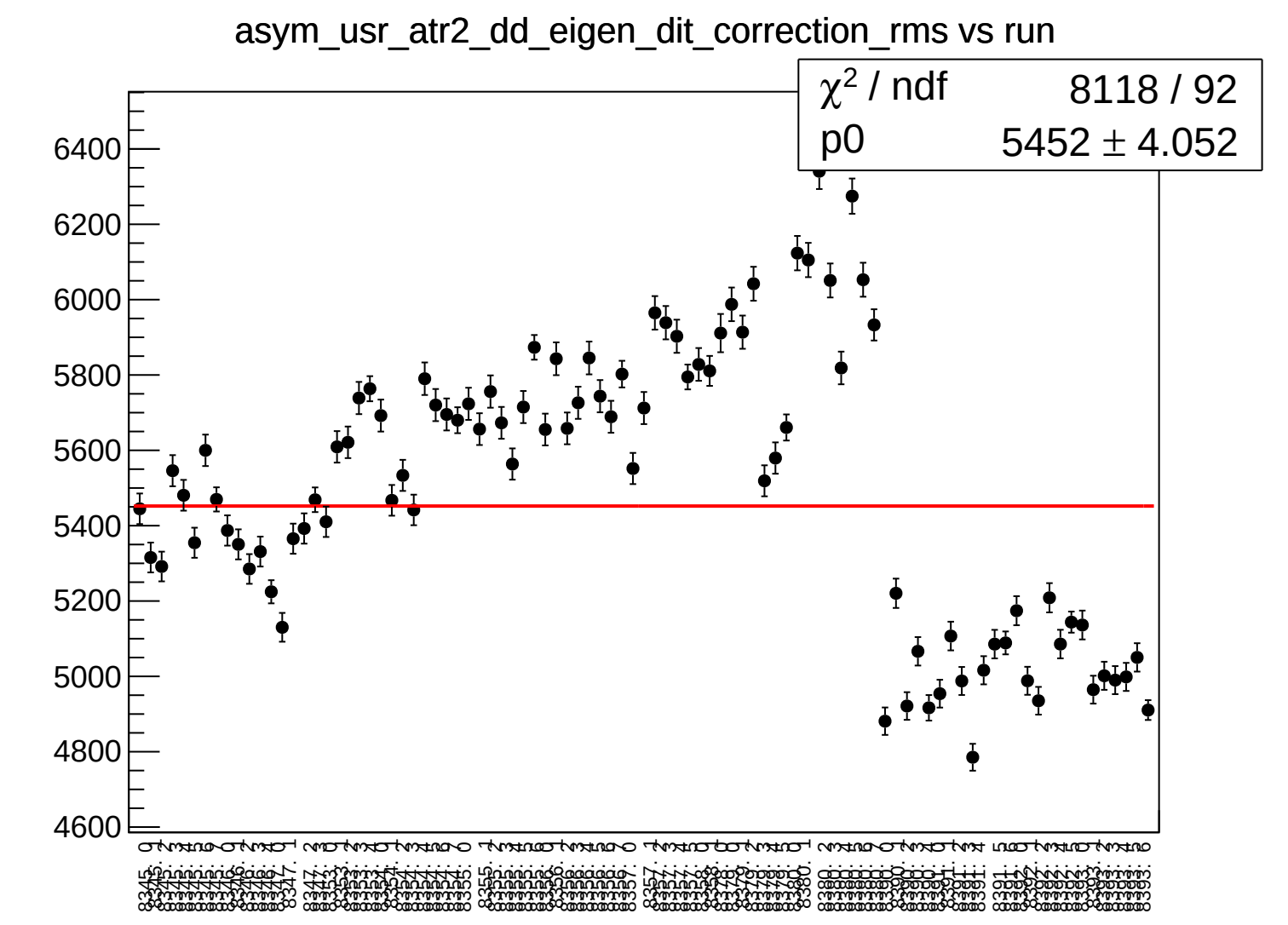

eigen_dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 91.34 / 92
p0 −2795 ± 1418
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −201.4
Std Dev 0
2
1
0
−1
−2
−3

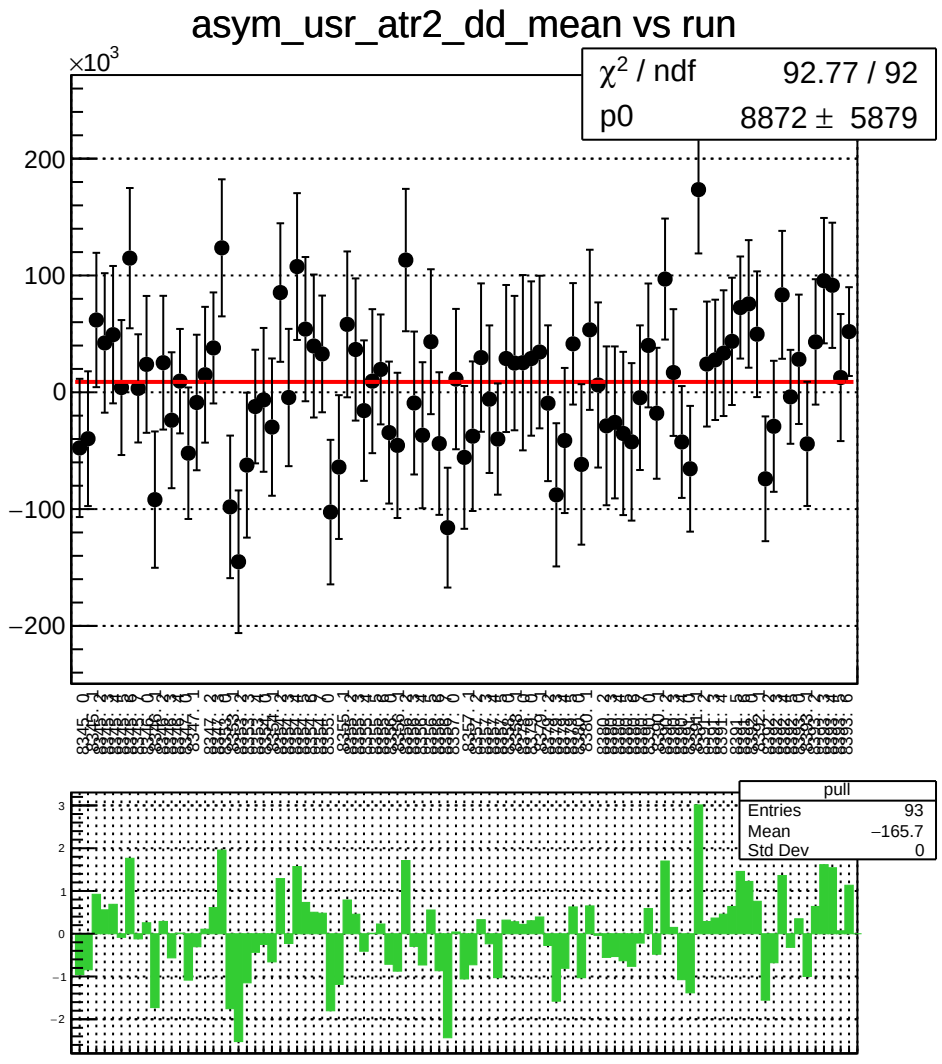

pull1D
Entries 93
Mean 0.01099
Std Dev 0.991
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

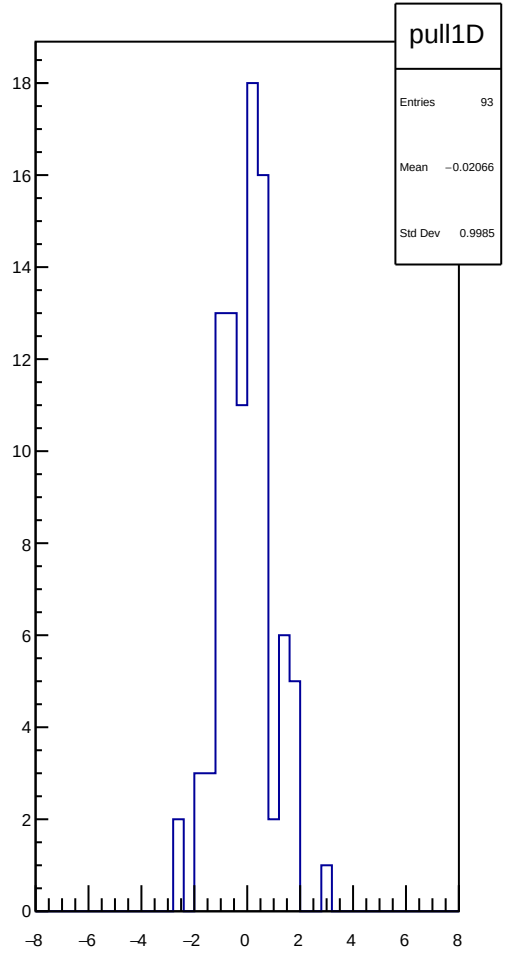

eigen_dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 2470 / 92
p0 1351 ± 1.003
1450
1400
1350
1300
1250

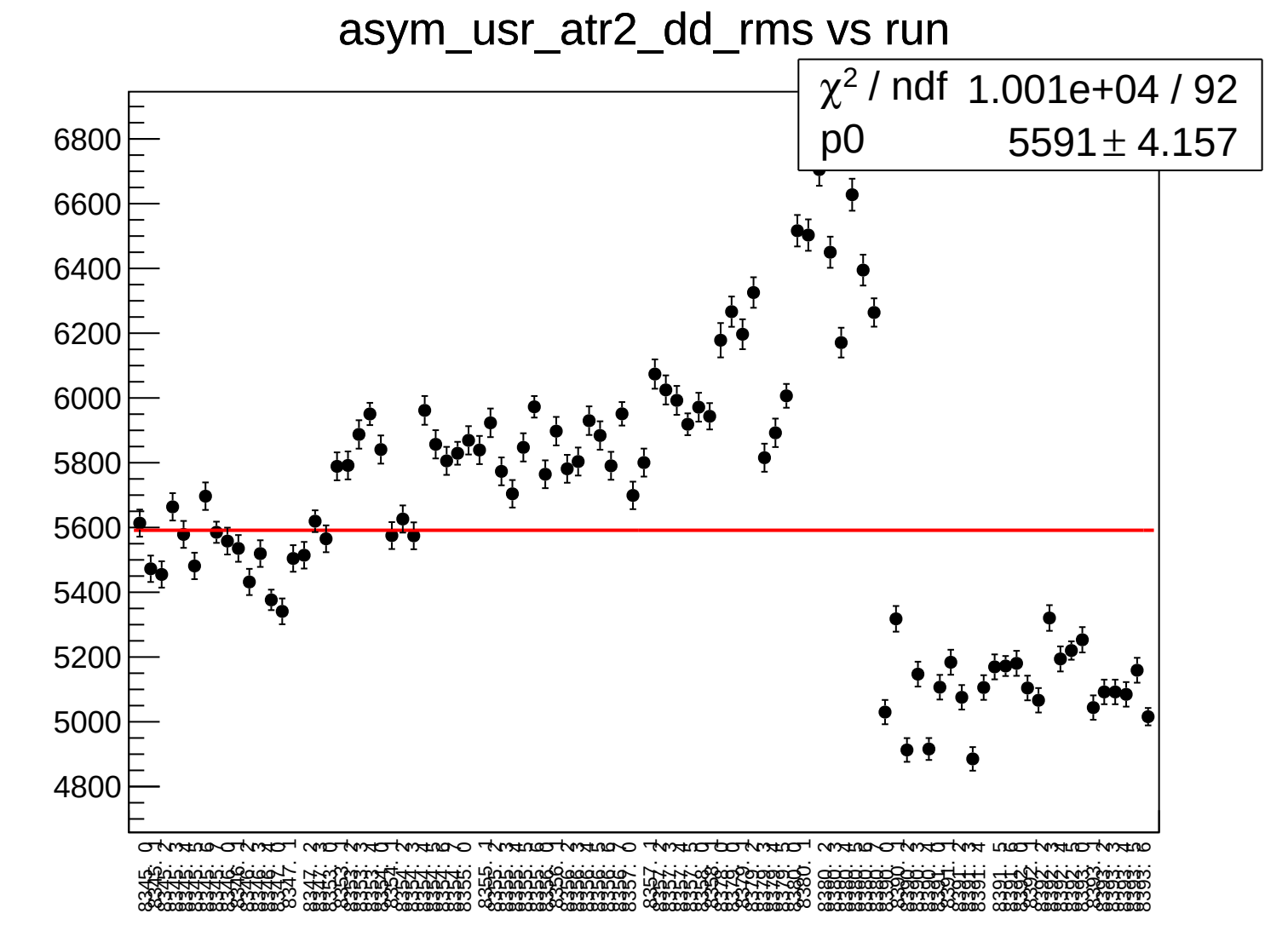

asym_usr_atr2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 97.33 / 92
p0 −1.141e+04 ± 5730
200
100
0
−100
−200
pull
Entries 93
Mean −191.8
Std Dev 0
2
1
0
−1
−2
−3

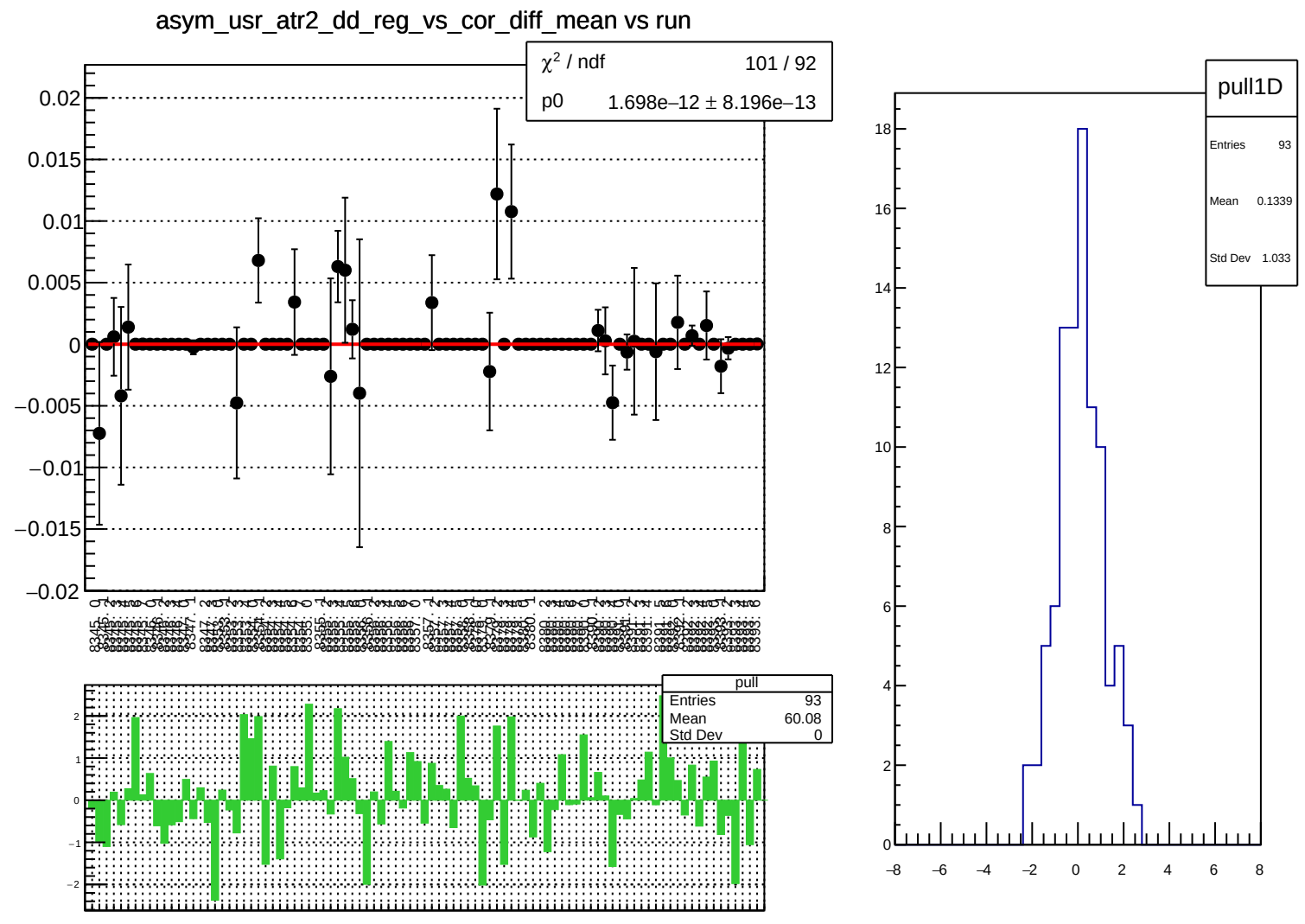

pull1D
Entries 93
Mean 0.0217
Std Dev 1.023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

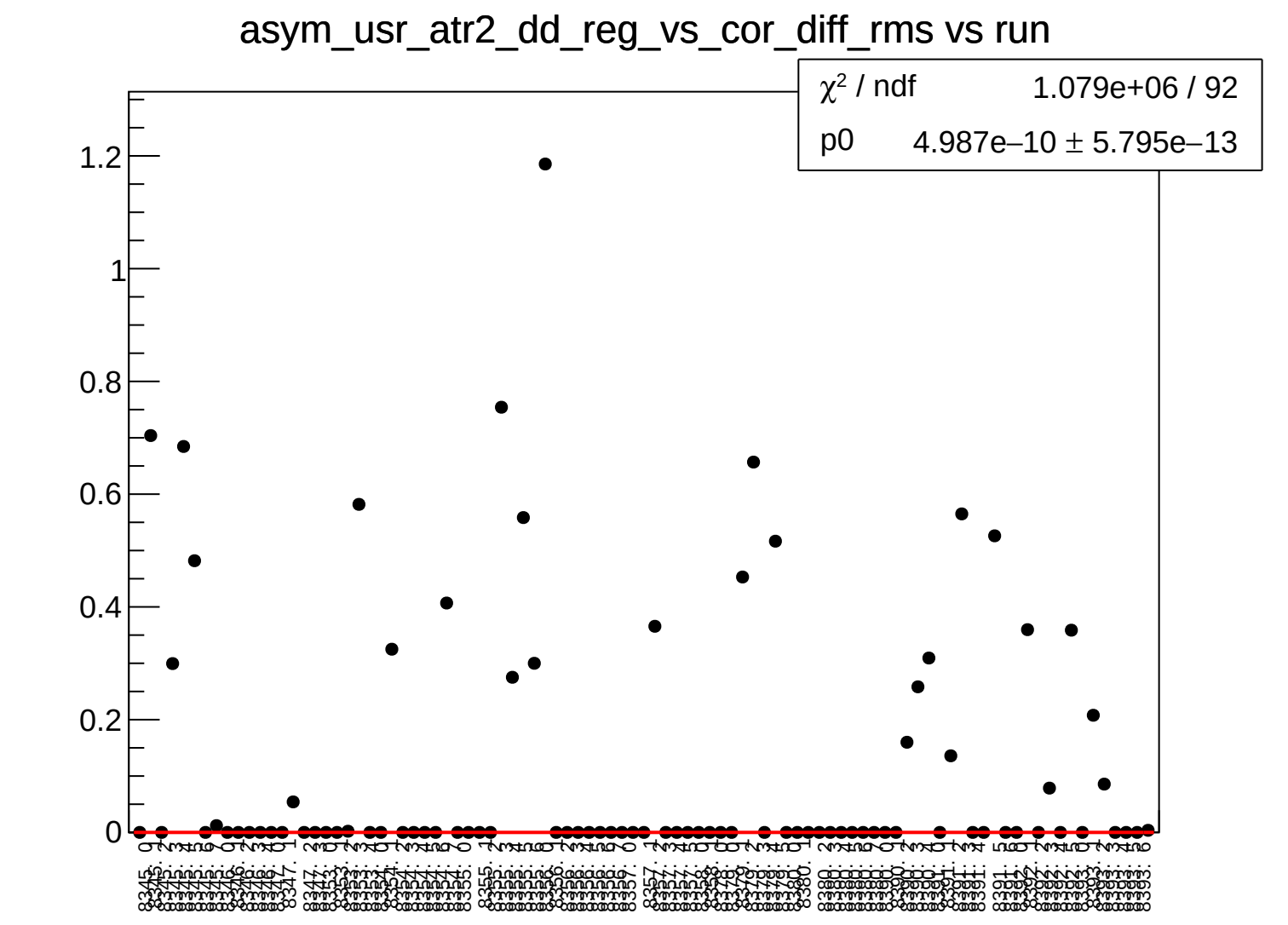

asym_usr_atr2_dd_eigen_dit_correction_rms vs run
χ² / ndf 8118 / 92
p0 5452 ± 4.052
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600

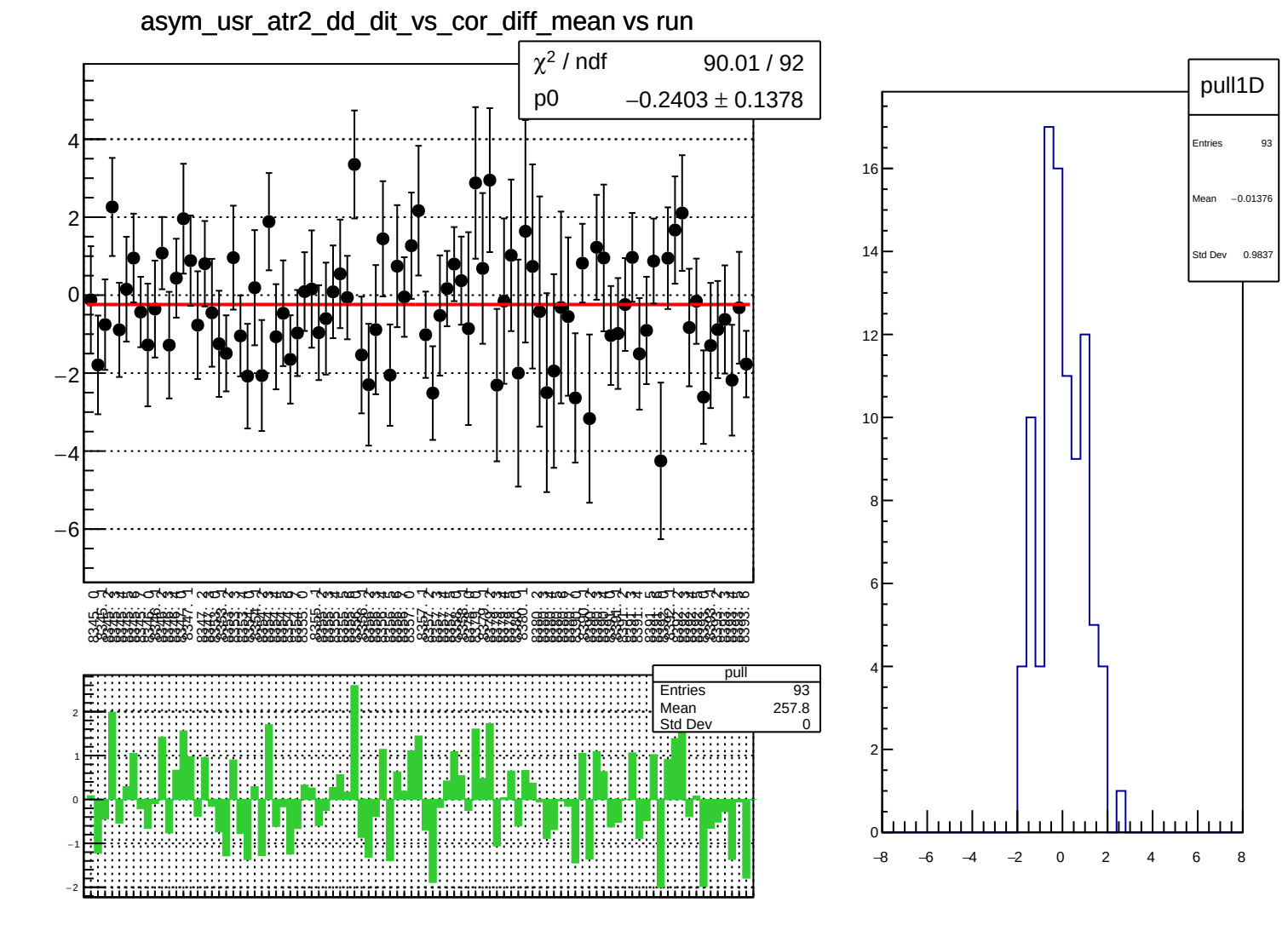

asym_usr_atr2_dd_mean vs run
χ² / ndf 92.77 / 92
p0 8872 ± 5879
×10³
200
100
0
−100
−200
pull
Entries 93
Mean −165.7
Std Dev 0
3
2
1
0
−1
−2

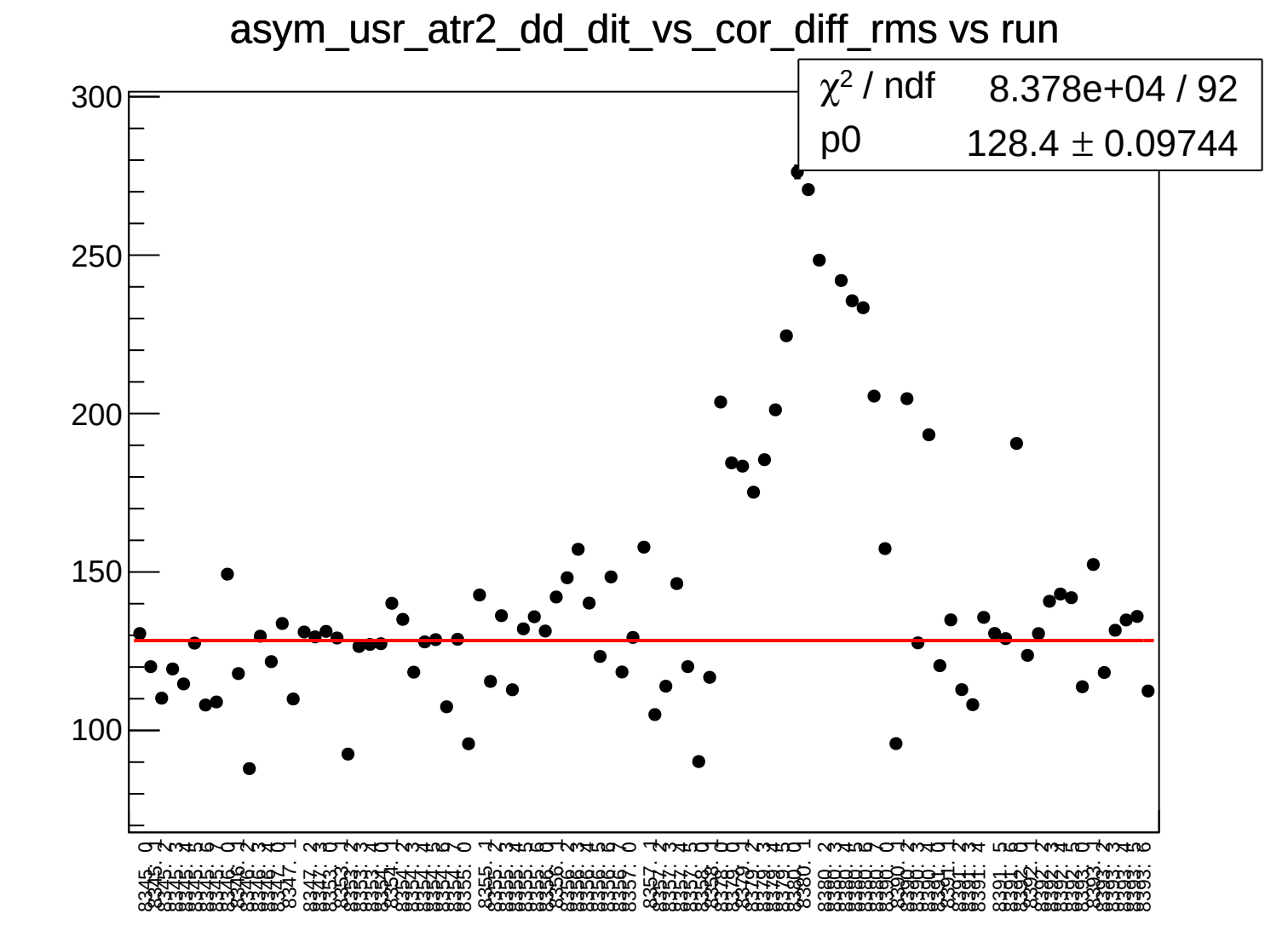

pull1D
Entries 93
Mean −0.02066
Std Dev 0.9985
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

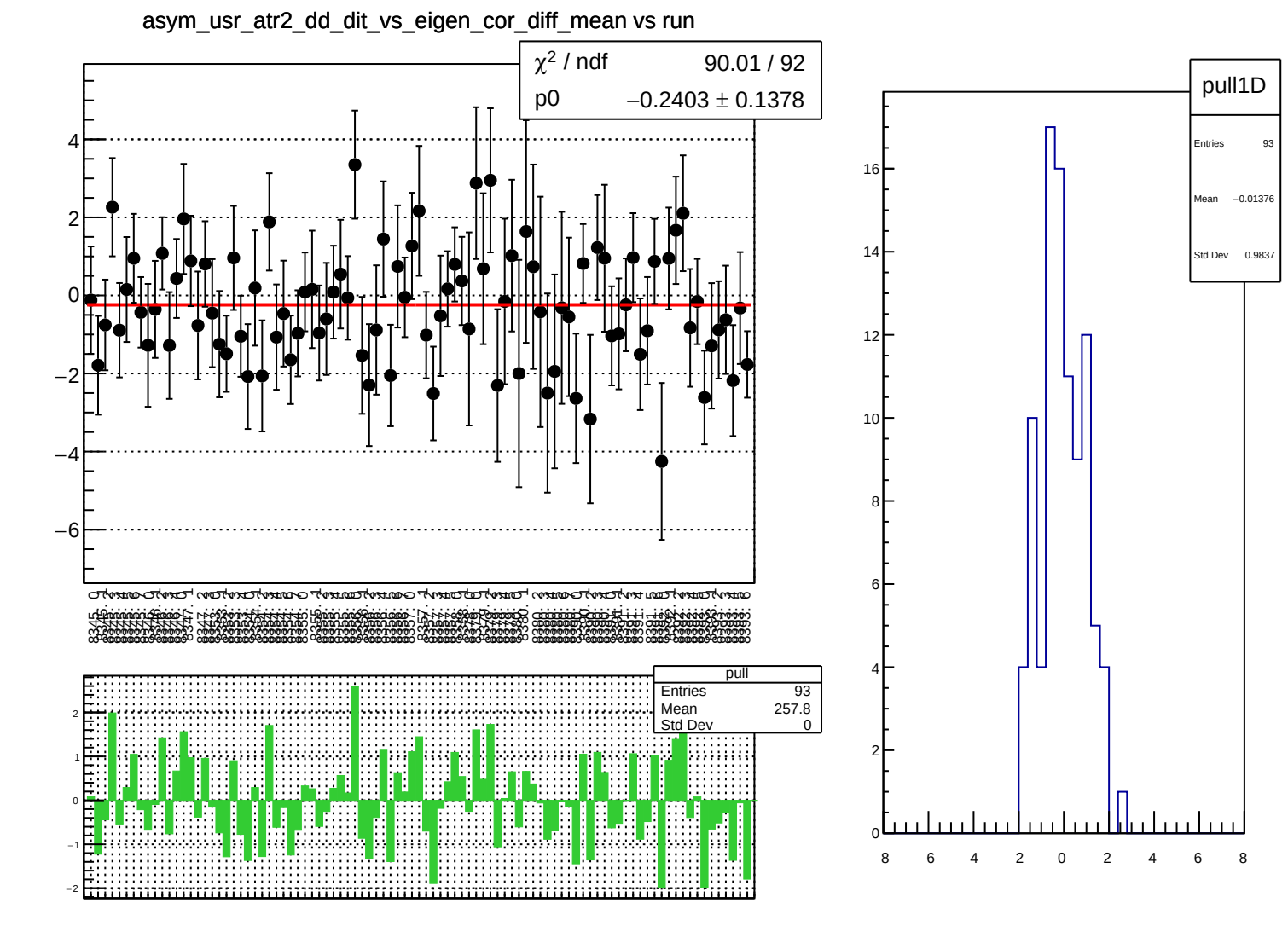

asym_usr_atr2_dd_rms vs run
χ² / ndf 1.001e+04 / 92
p0 5591 ± 4.157
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800

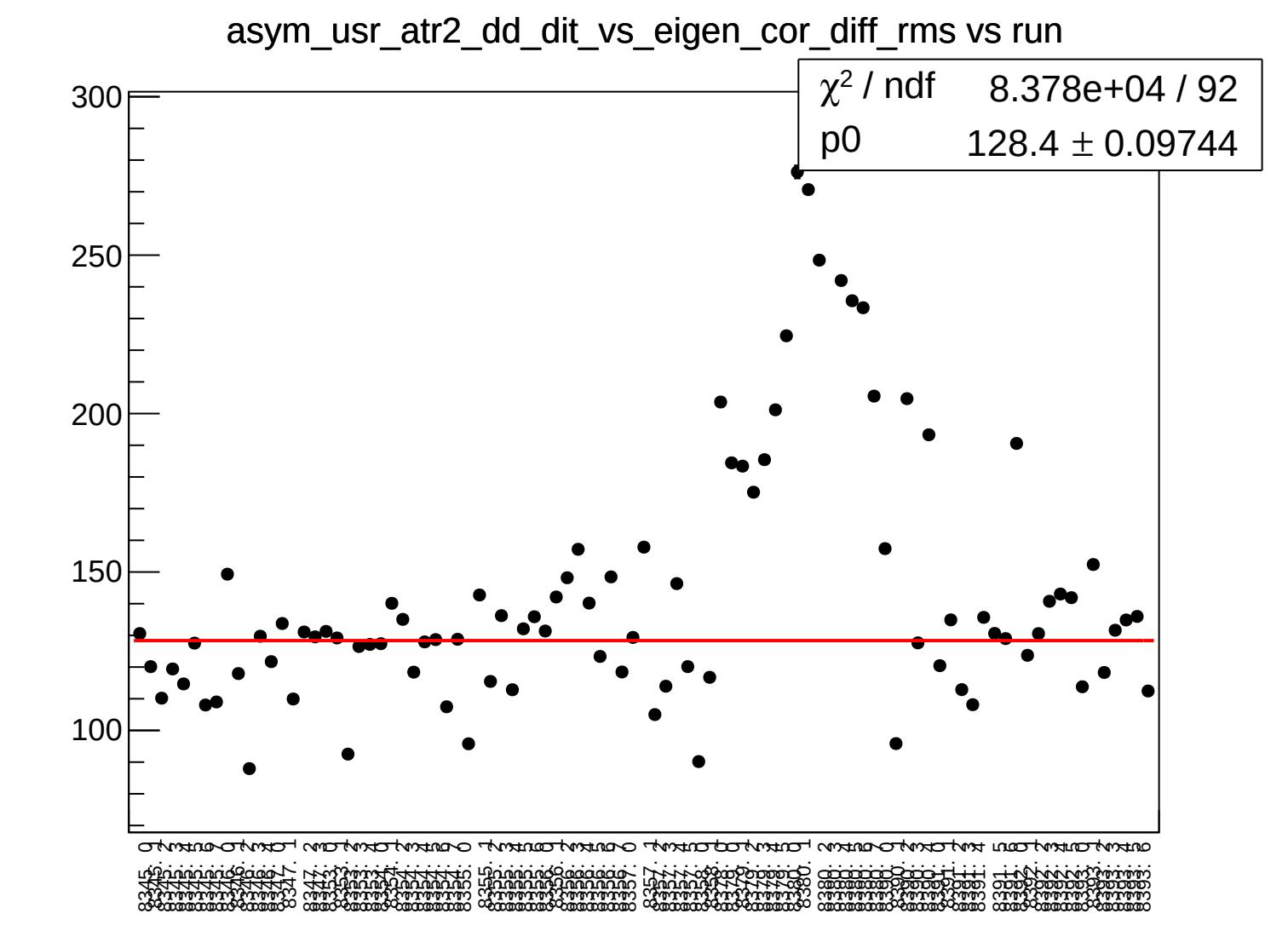

asym_usr_atr2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 101 / 92
p0 1.698e−12 ± 8.196e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 93
Mean 60.08
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.1339
Std Dev 1.033
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

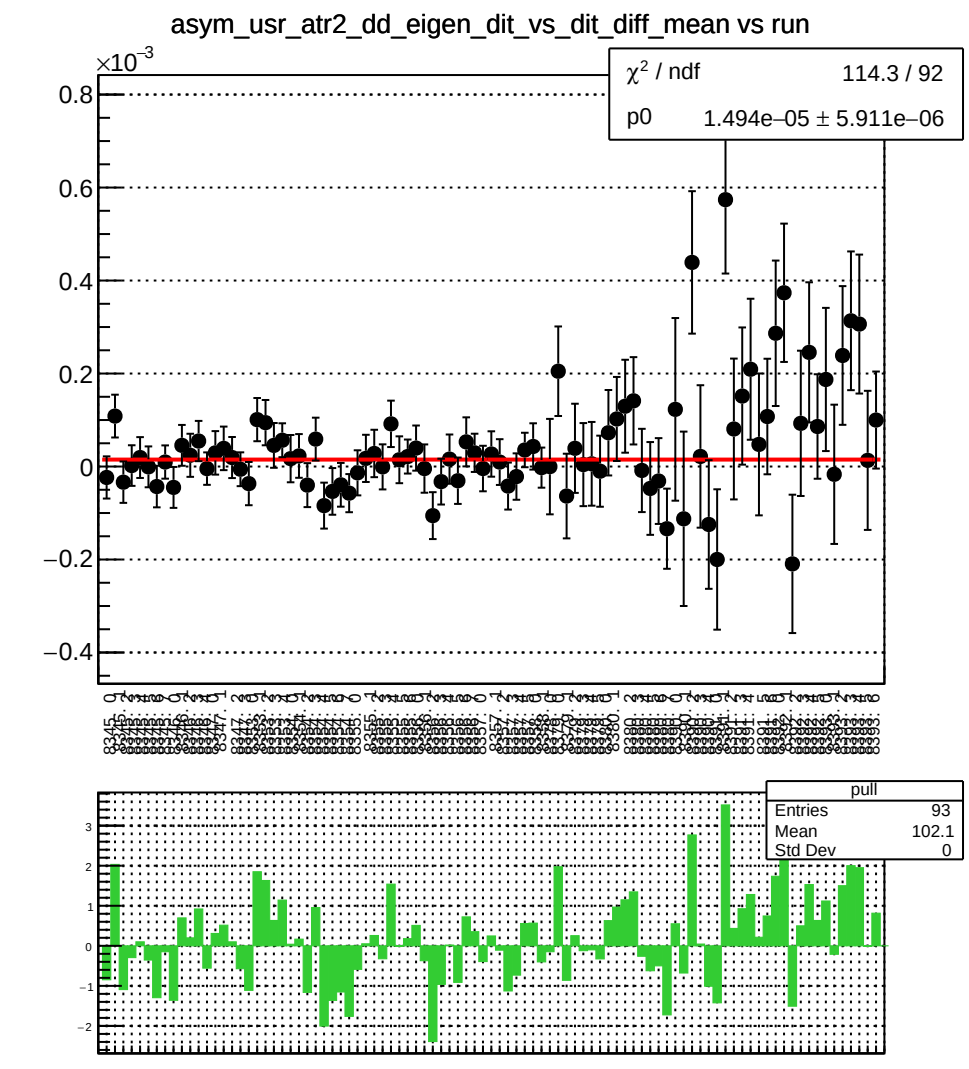

asym_usr_atr2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.079e+06 / 92
p0 4.987e−10 ± 5.795e−13
1.2
1
0.8
0.6
0.4
0.2
0

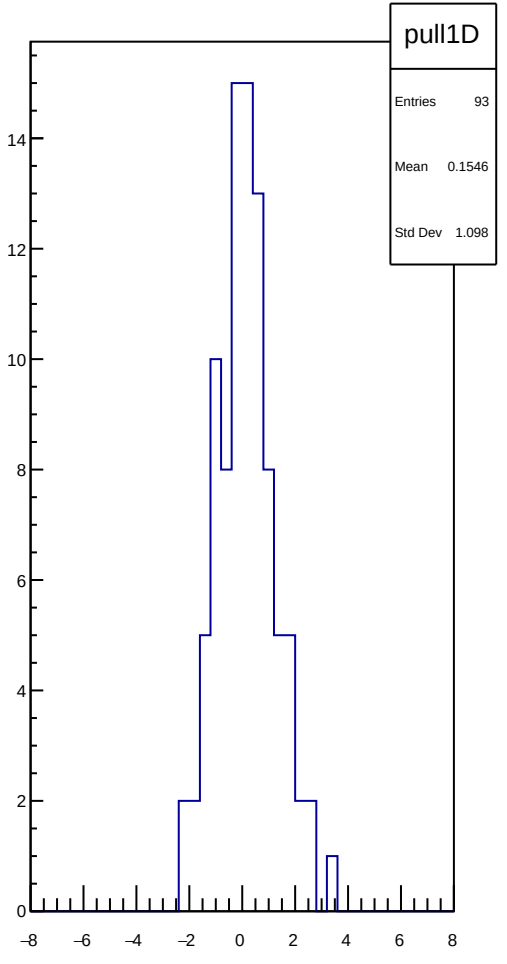

asym_usr_atr2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 90.01 / 92
p0 −0.2403 ± 0.1378
pull
Entries 93
Mean 257.8
Std Dev 0
pull1D
Entries 93
Mean −0.01376
Std Dev 0.9837

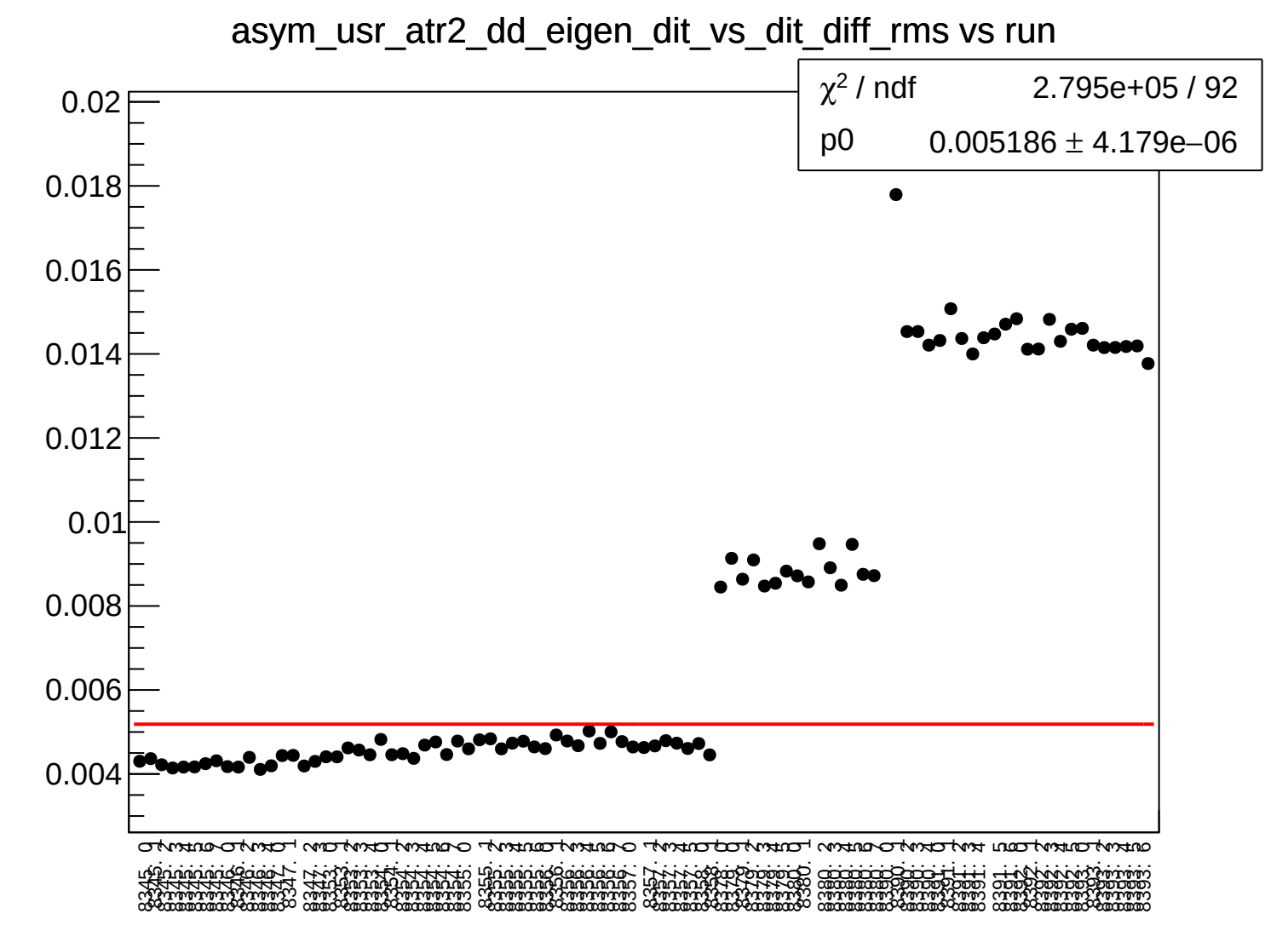

asym_usr_atr2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8.378e+04 / 92
p0 128.4 ± 0.09744
300
250
200
150
100

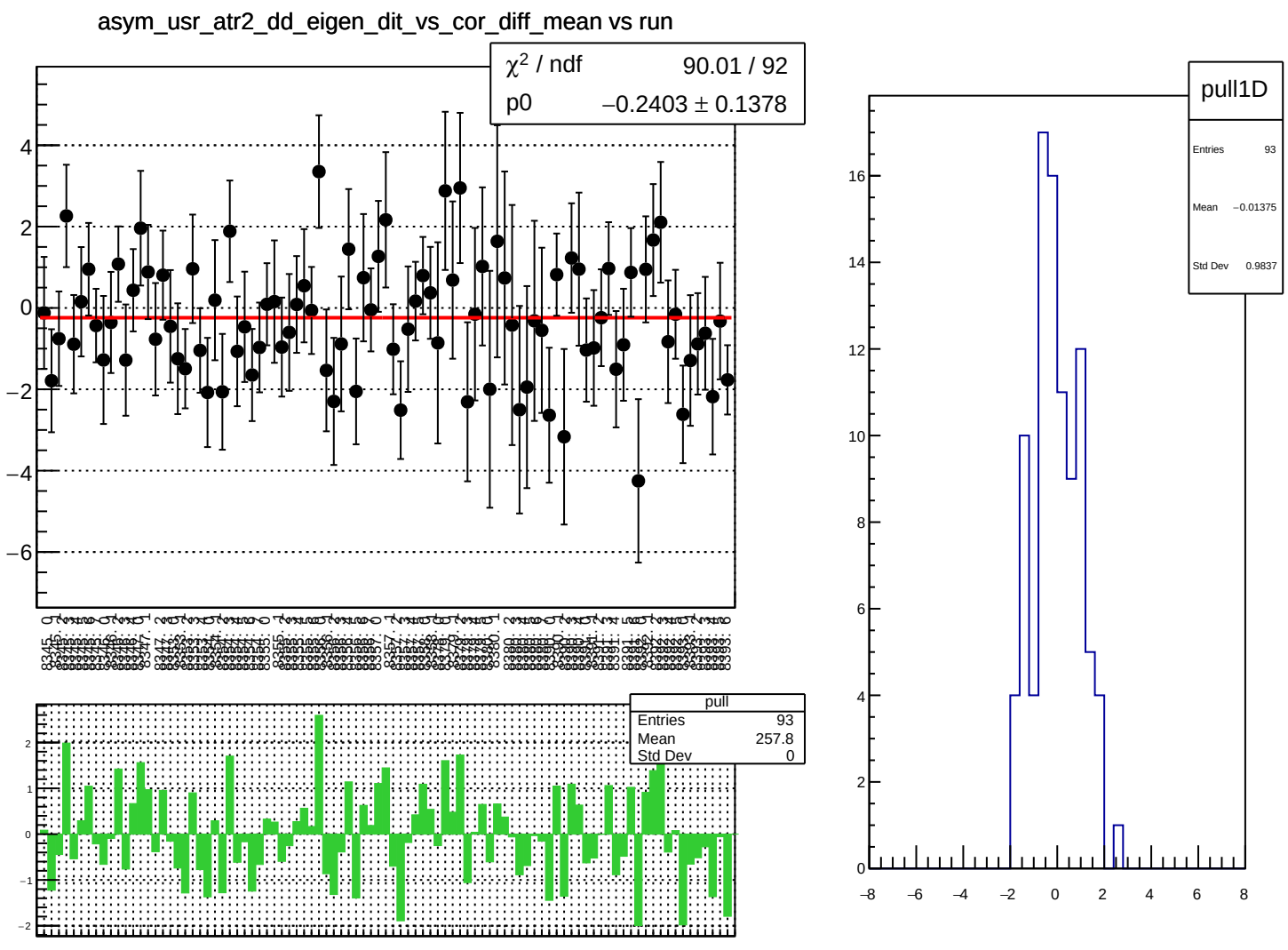

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.01 / 92
p0 −0.2403 ± 0.1378
pull
Entries 93
Mean 257.8
Std Dev 0
pull1D
Entries 93
Mean −0.01376
Std Dev 0.9837

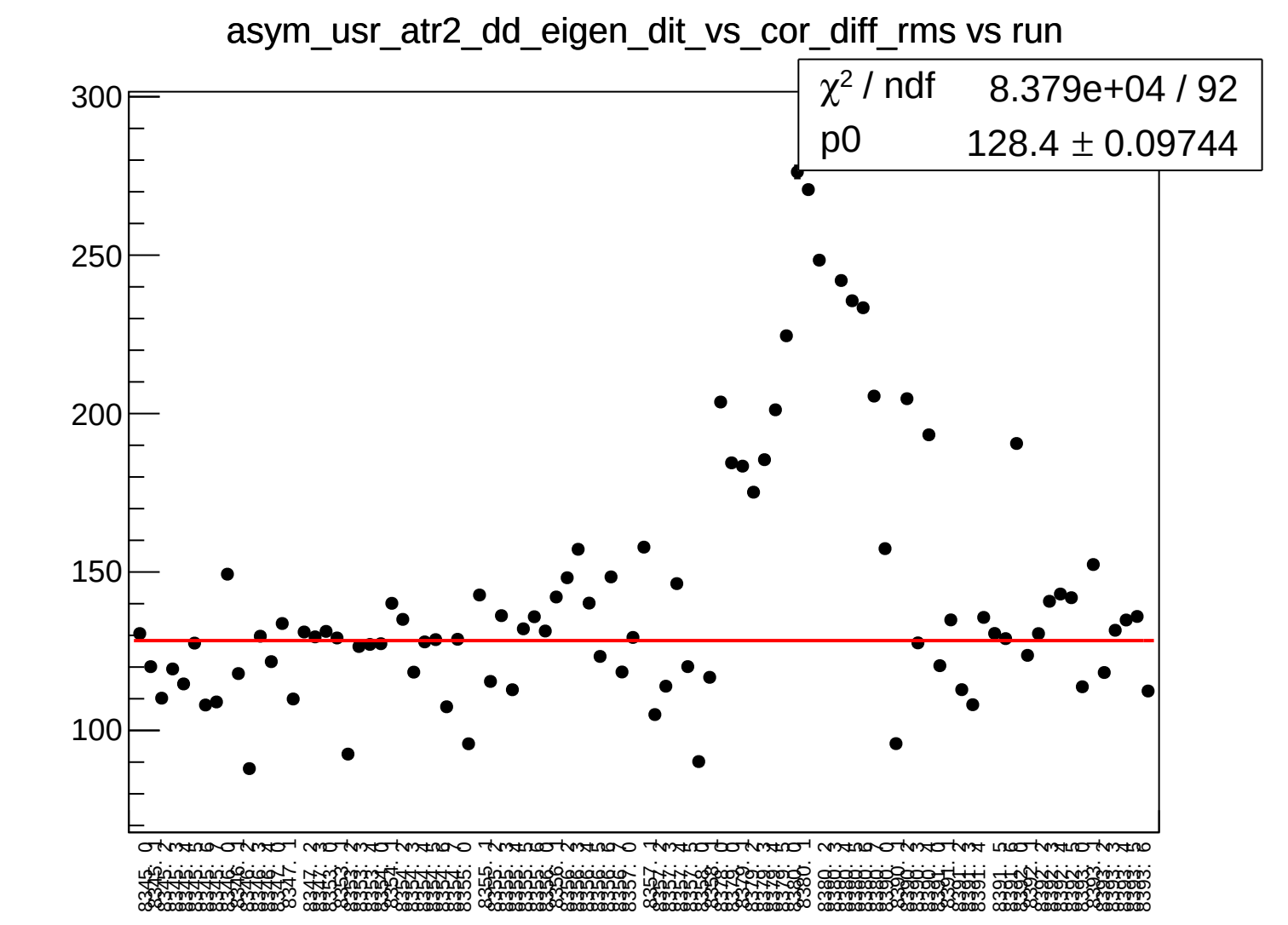

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.378e+04 / 92
p0 128.4 ± 0.09744
300
250
200
150
100

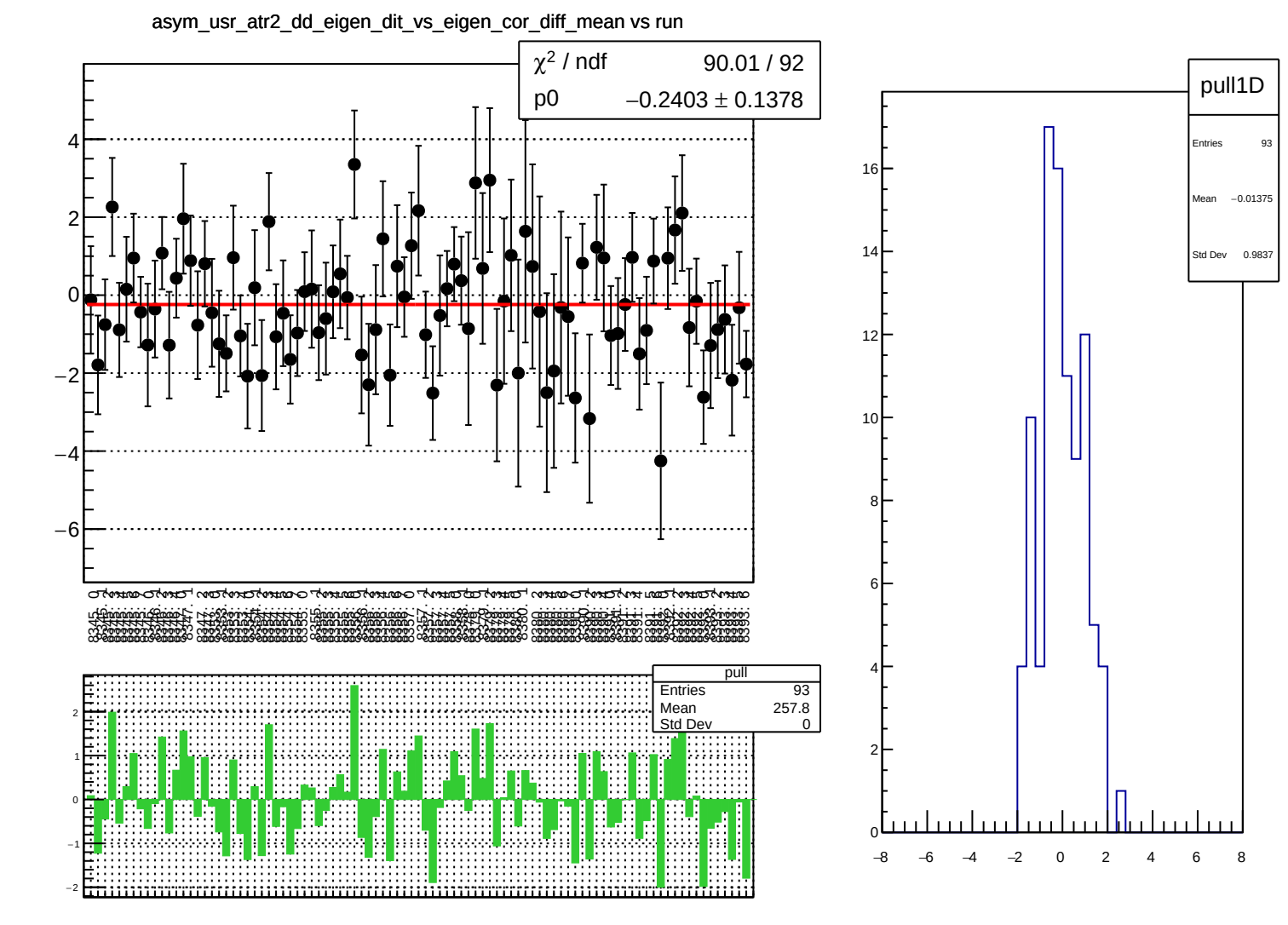

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 114.3 / 92
p0 1.494e−05 ± 5.911e−06
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull
Entries 93
Mean 102.1
Std Dev 0
3
2
1
0
−1
−2

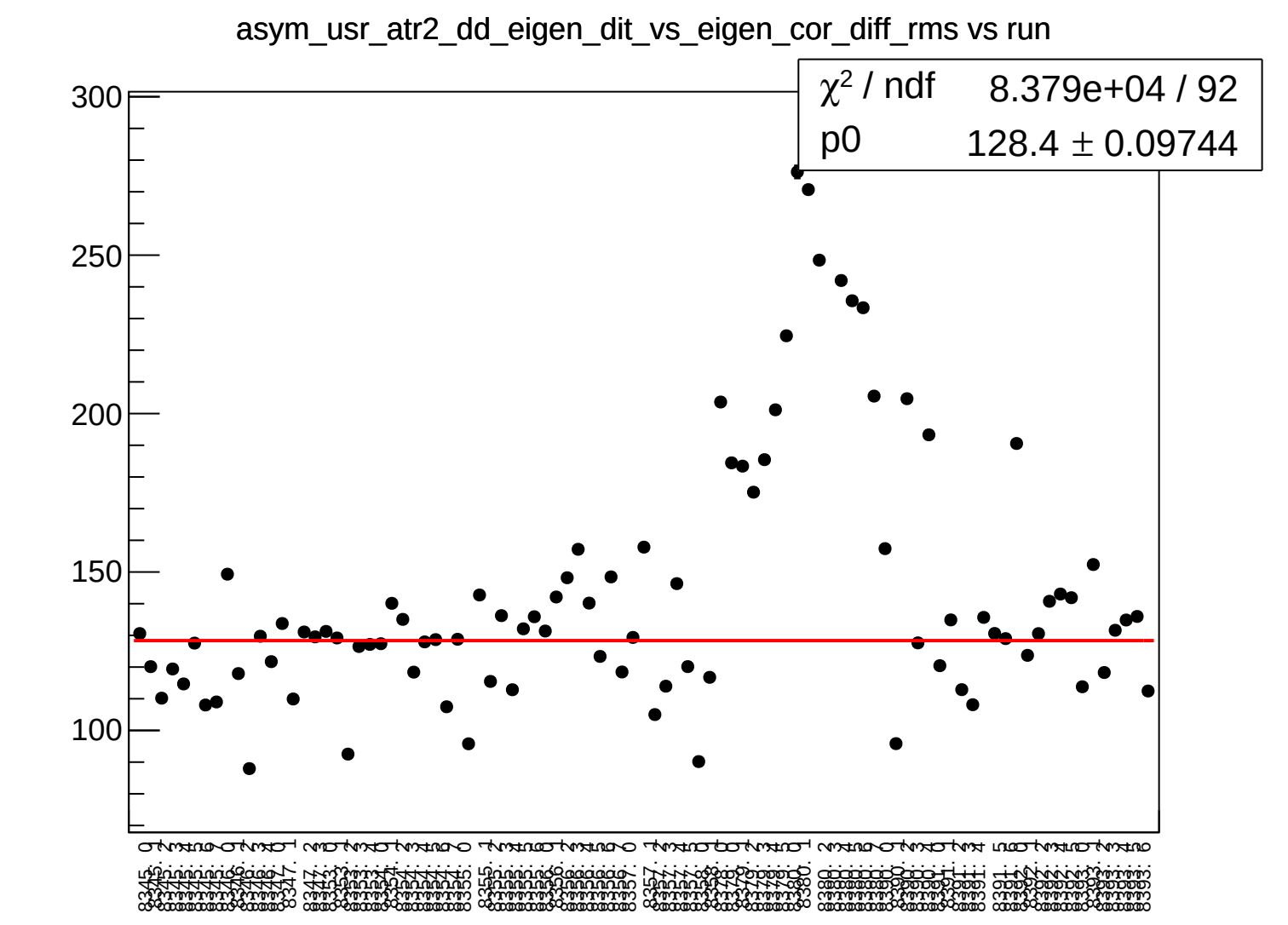

pull1D
Entries 93
Mean 0.1546
Std Dev 1.098
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

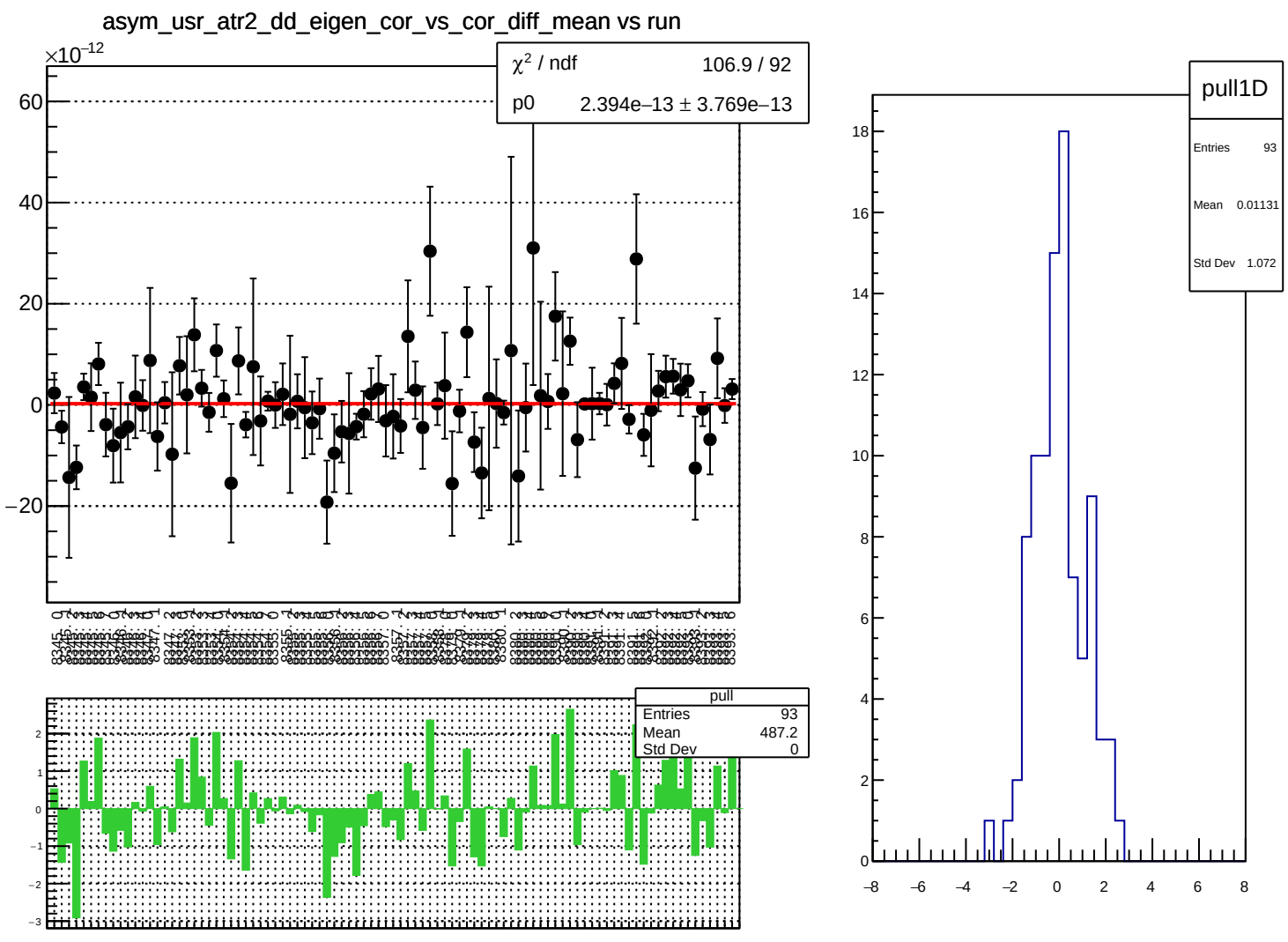

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.795e+05 / 92
p0 0.005186 ± 4.179e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

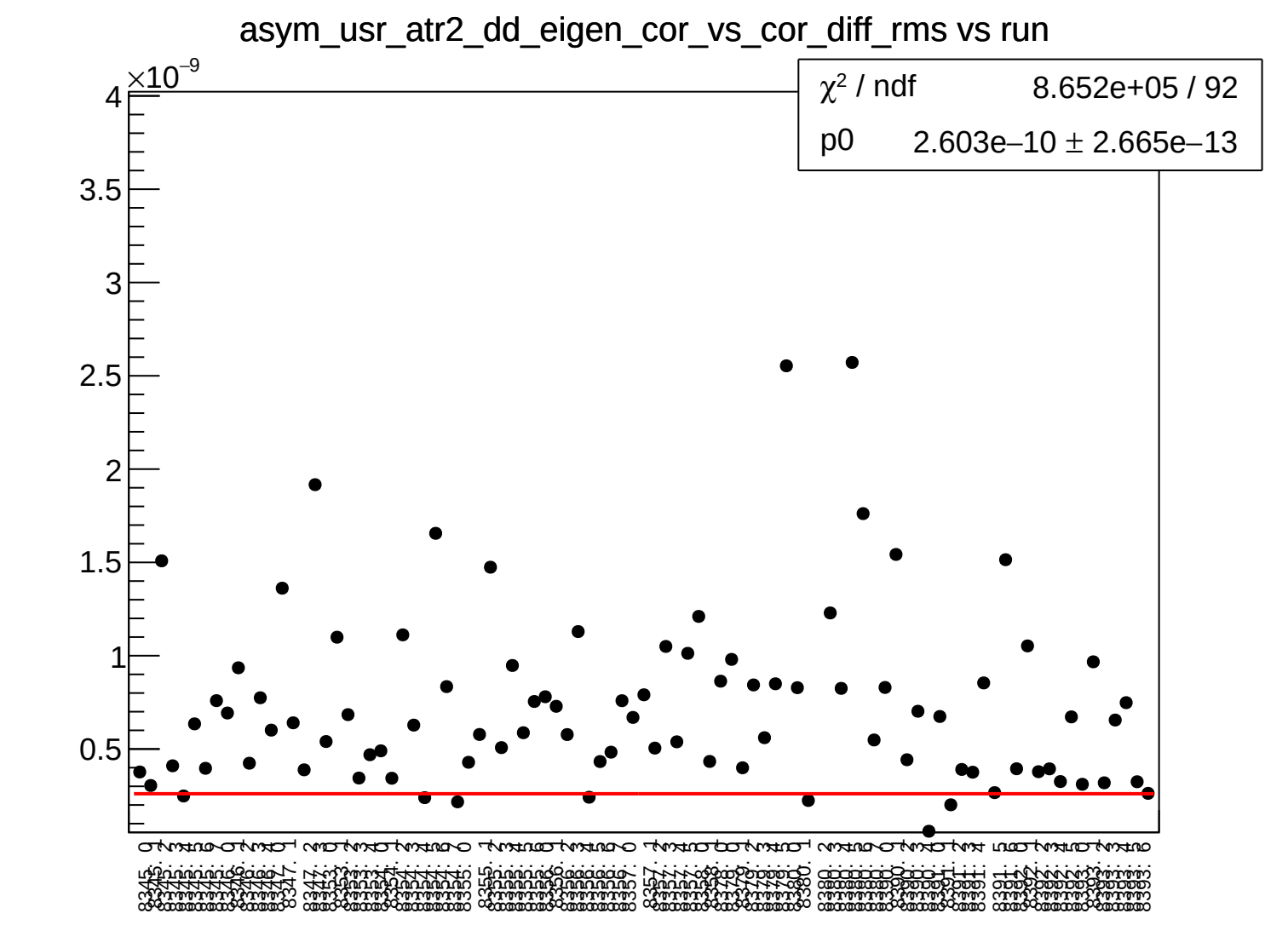

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.01 / 92
p0 −0.2403 ± 0.1378
pull
Entries 93
Mean 257.8
Std Dev 0
pull1D
Entries 93
Mean −0.01375
Std Dev 0.9837

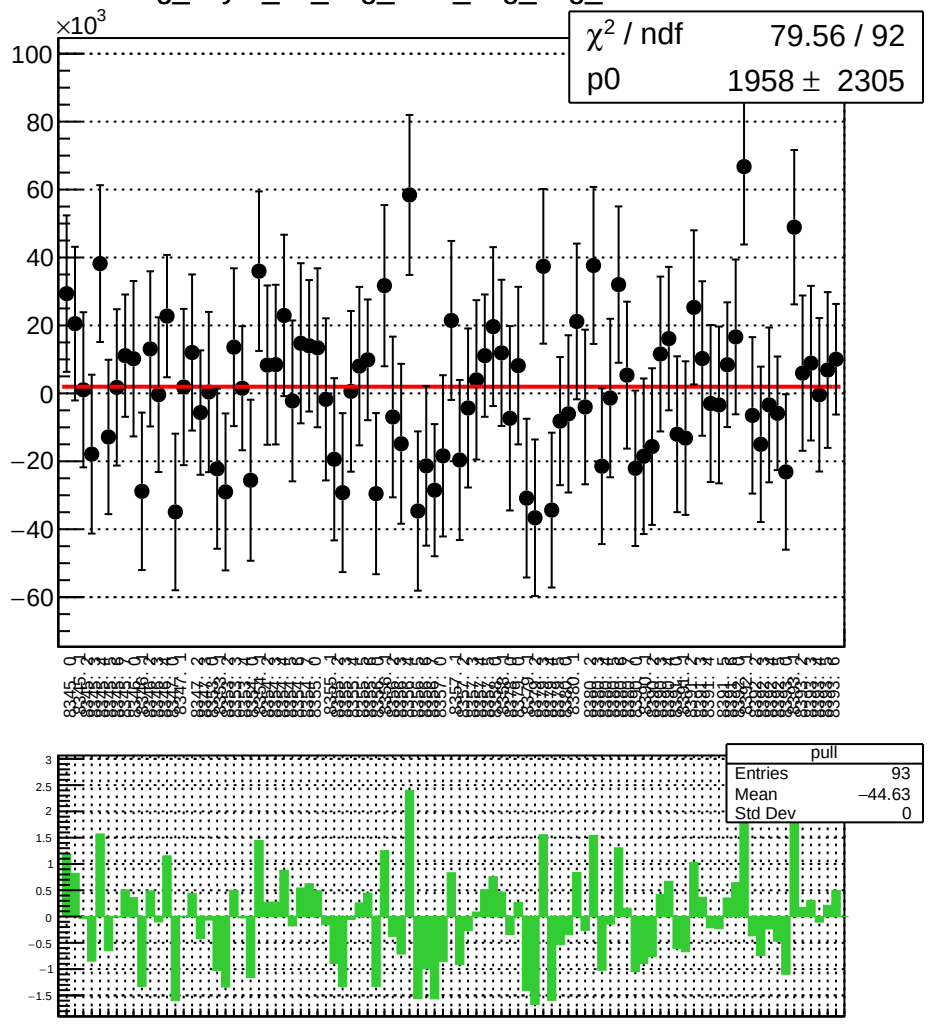

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.379e+04 / 92
p0 128.4 ± 0.09744
300
250
200
150
100

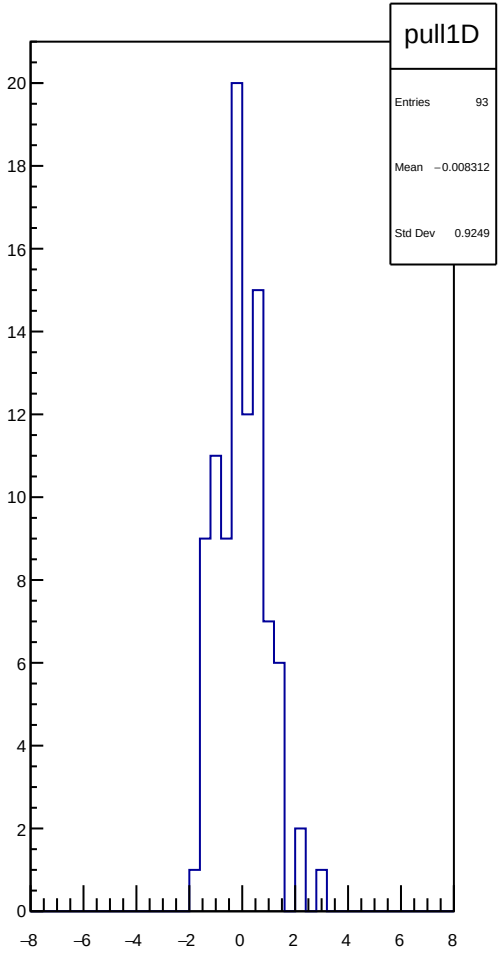

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.01 / 92
p0 −0.2403 ± 0.1378
pull
Entries 93
Mean 257.8
Std Dev 0
pull1D
Entries 93
Mean −0.01375
Std Dev 0.9837

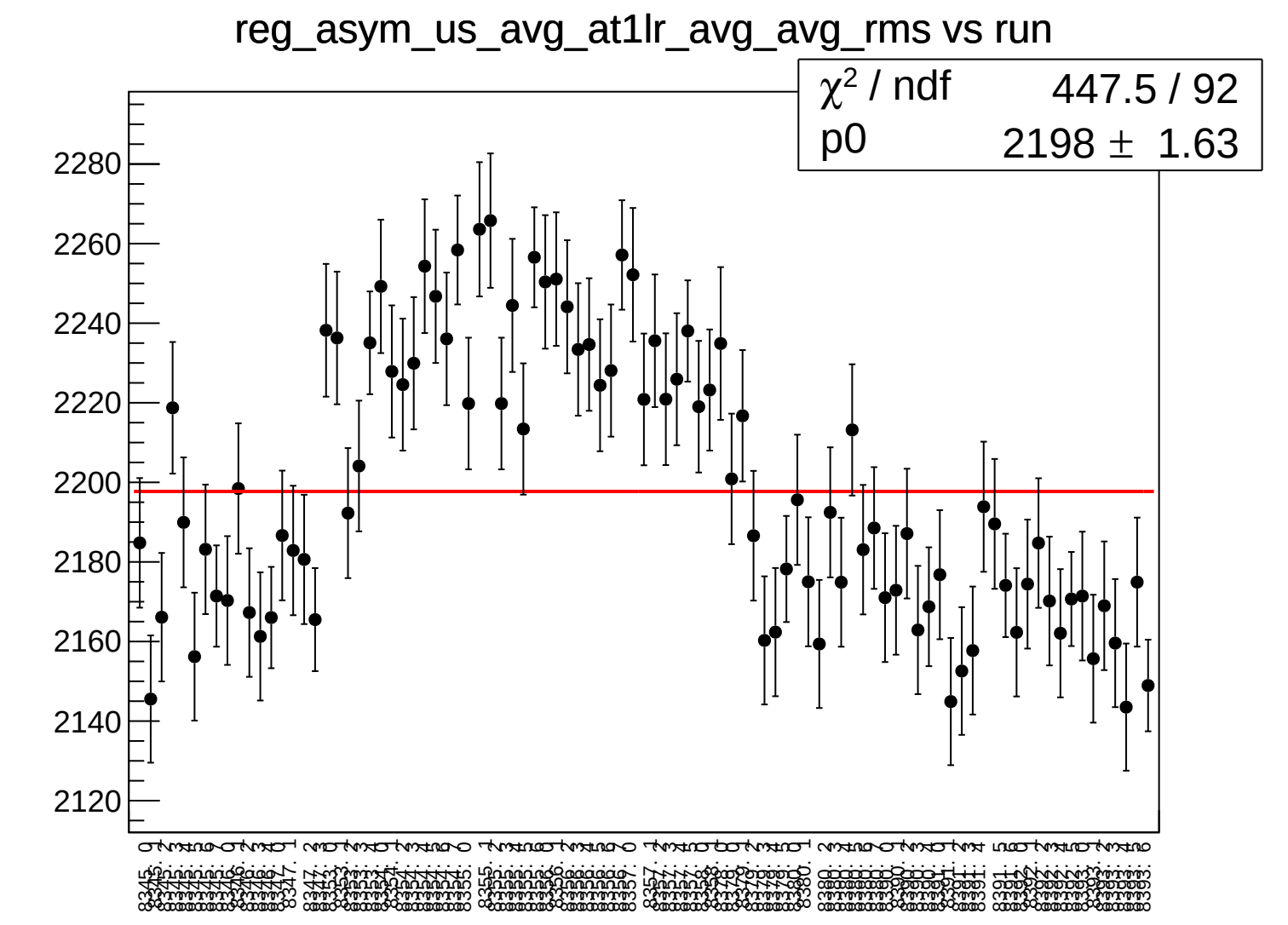

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.379e+04 / 92
p0 128.4 ± 0.09744
300
250
200
150
100

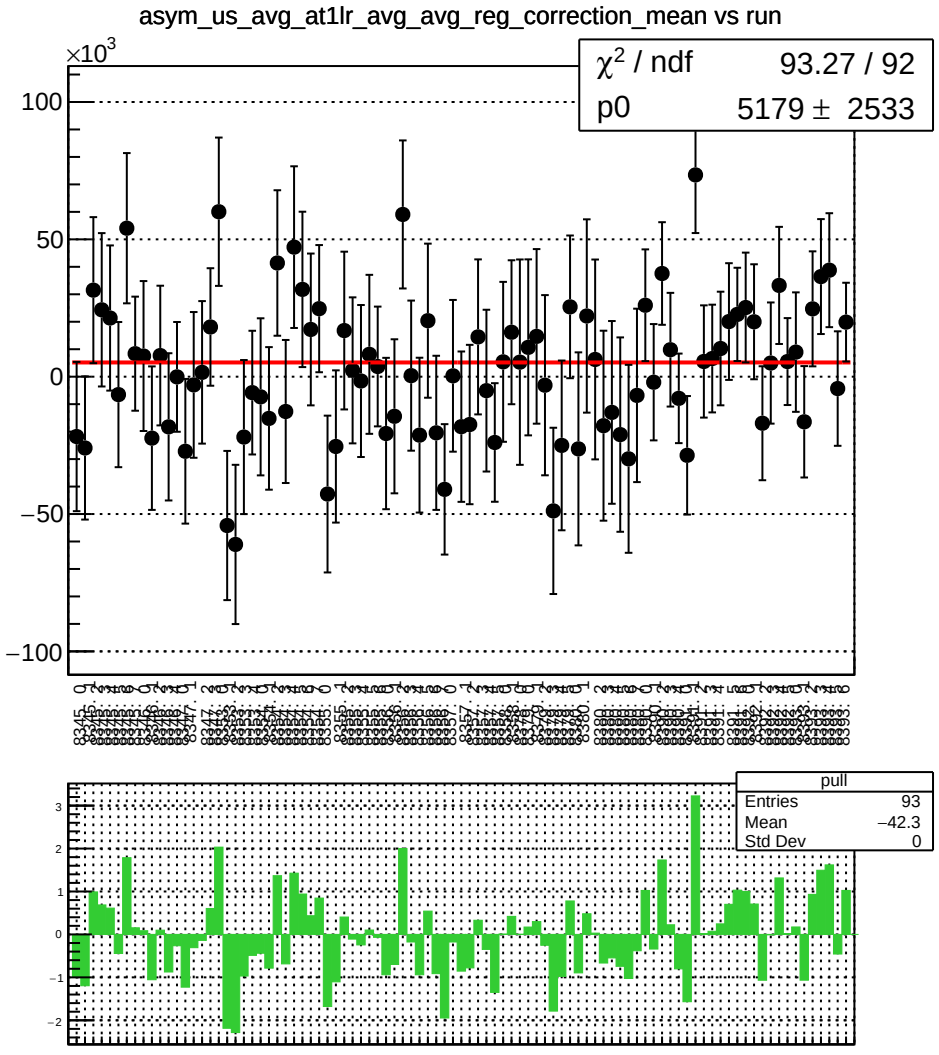

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 106.9 / 92
p0 2.394e−13 ± 3.769e−13
60
40
20
0
−20
pull
Entries 93
Mean 487.2
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.01131
Std Dev 1.072
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

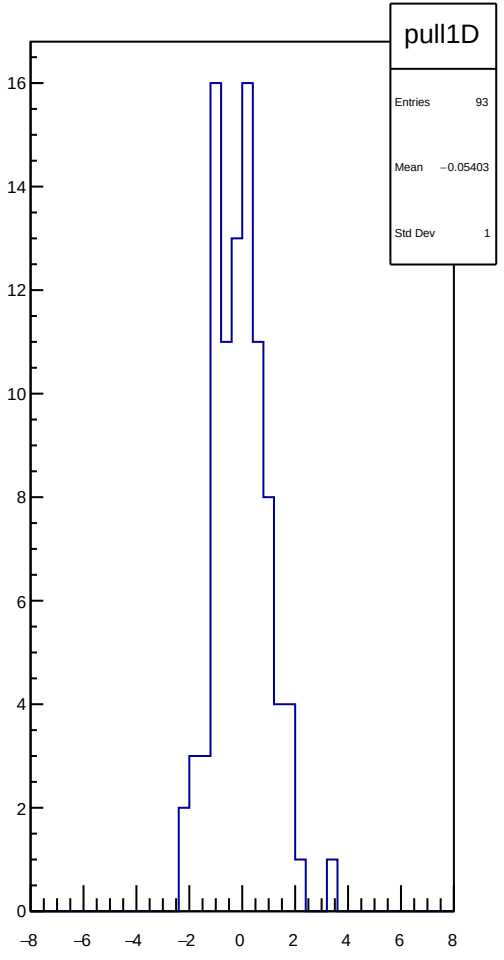

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.652e+05 / 92
p0 2.603e−10 ± 2.665e−13
4
3.5
3
2.5
2
1.5
1
0.5

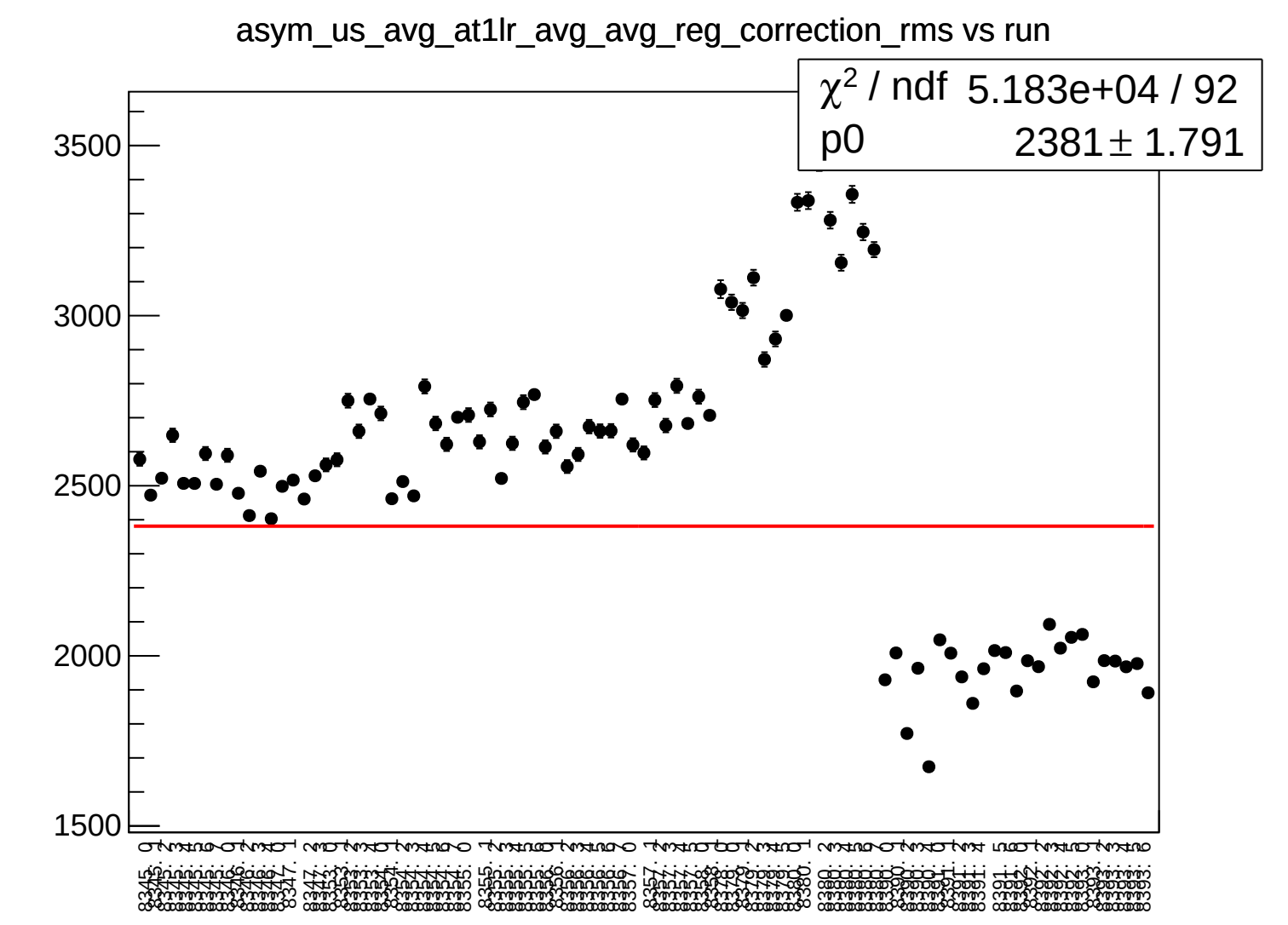

reg_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 79.56 / 92
p0 1958 ± 2305
pull
Entries 93
Mean −44.63
Std Dev 0

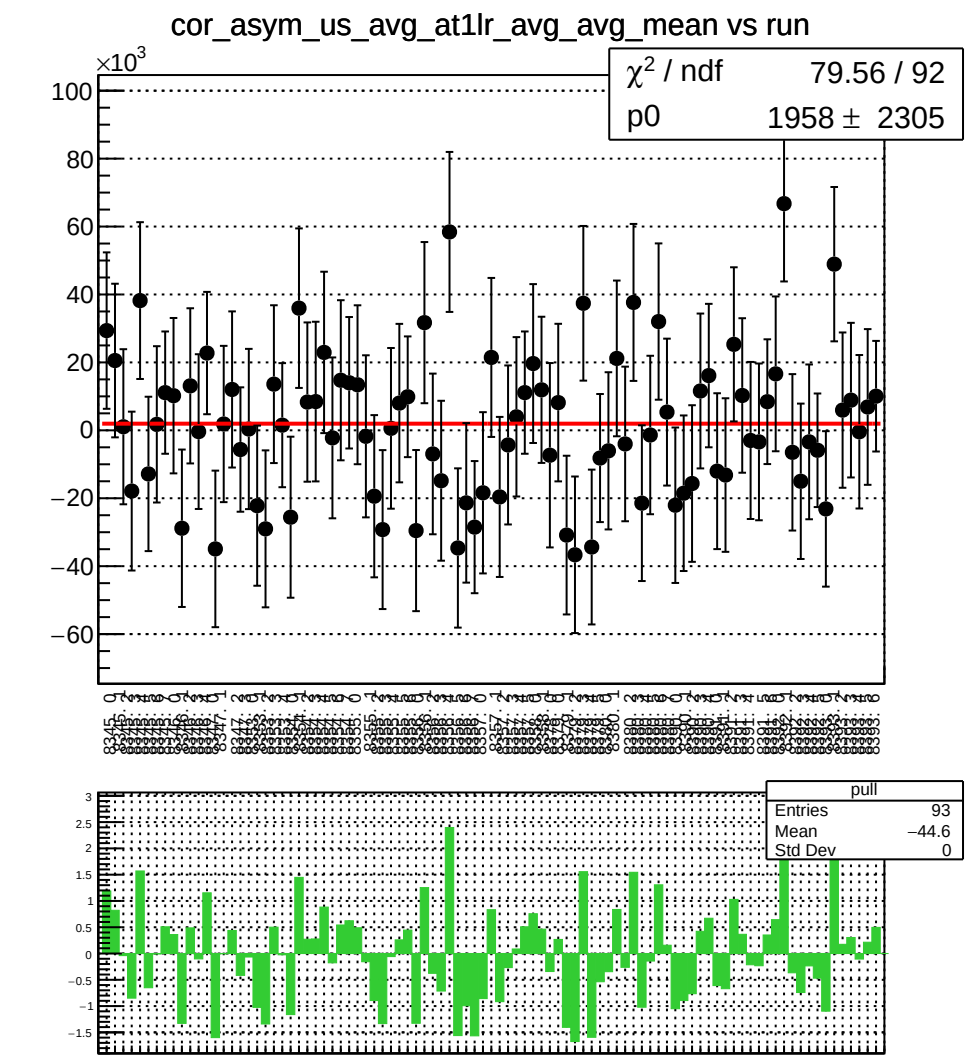

pull1D
Entries 93
Mean −0.008312
Std Dev 0.9249

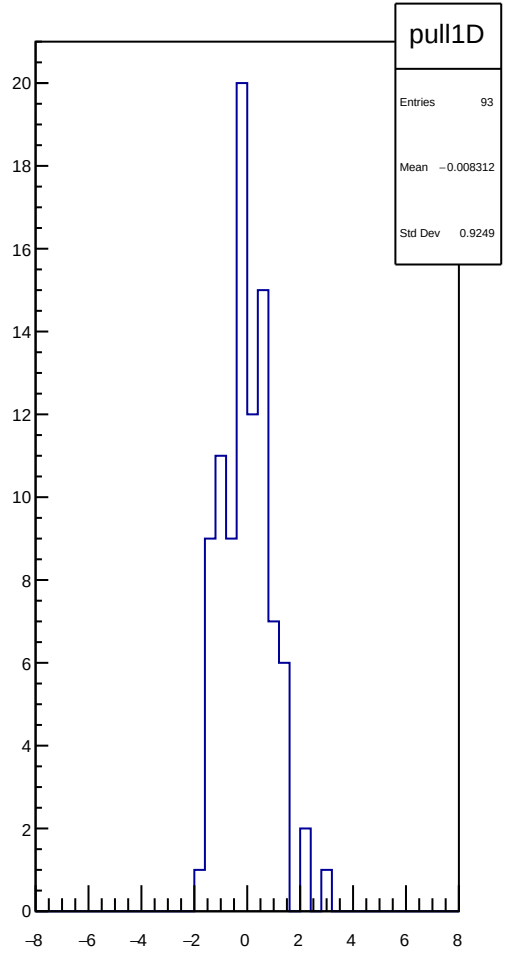

reg_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 447.5 / 92
p0 2198 ± 1.63
2280
2260
2240
2220
2200
2180
2160
2140
2120

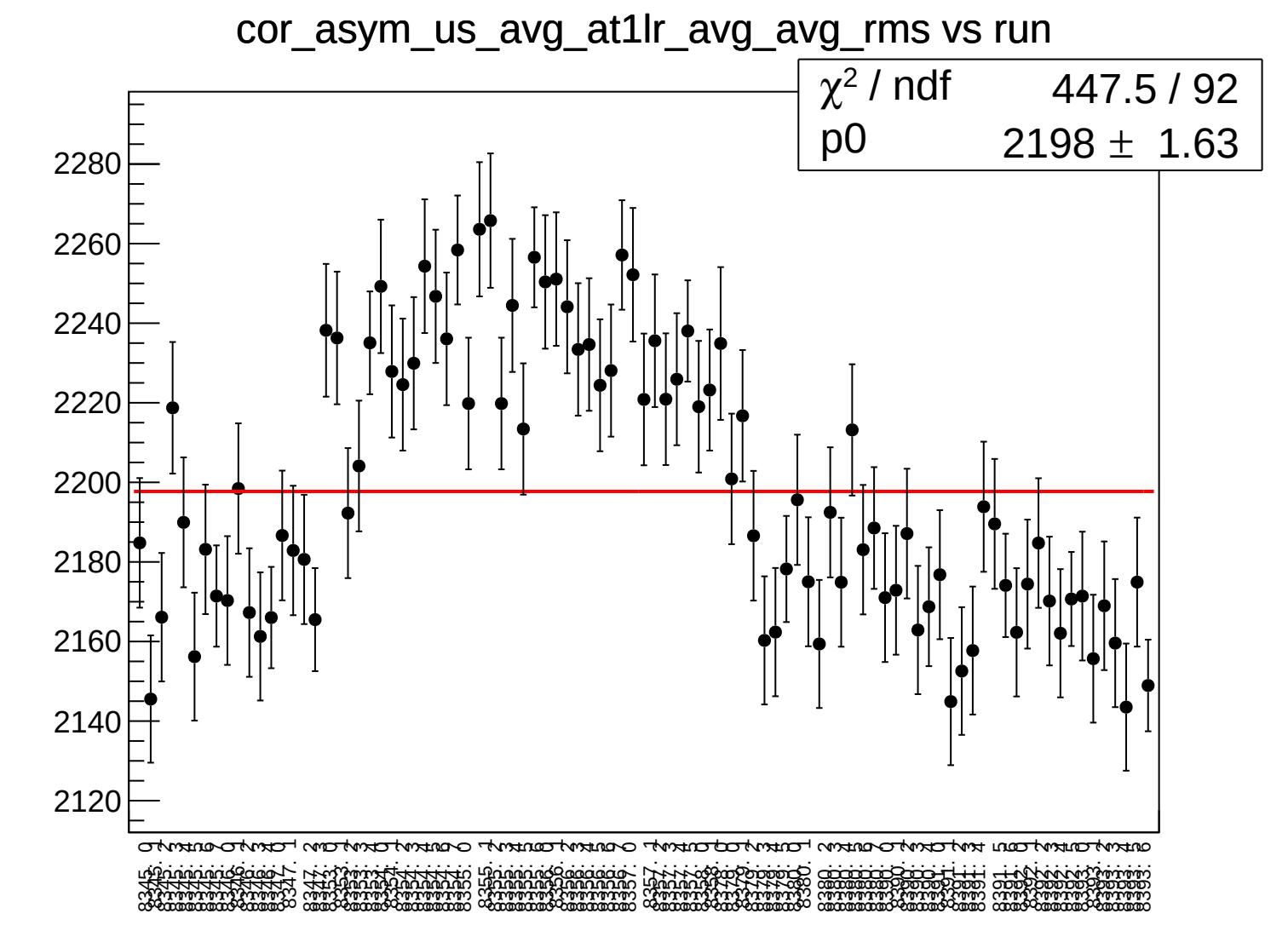

asym_us_avg_at1lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 93.27 / 92
p0 5179 ± 2533
100
50
0
−50
−100
pull
Entries 93
Mean −42.3
Std Dev 0
3
2
1
0
−1
−2

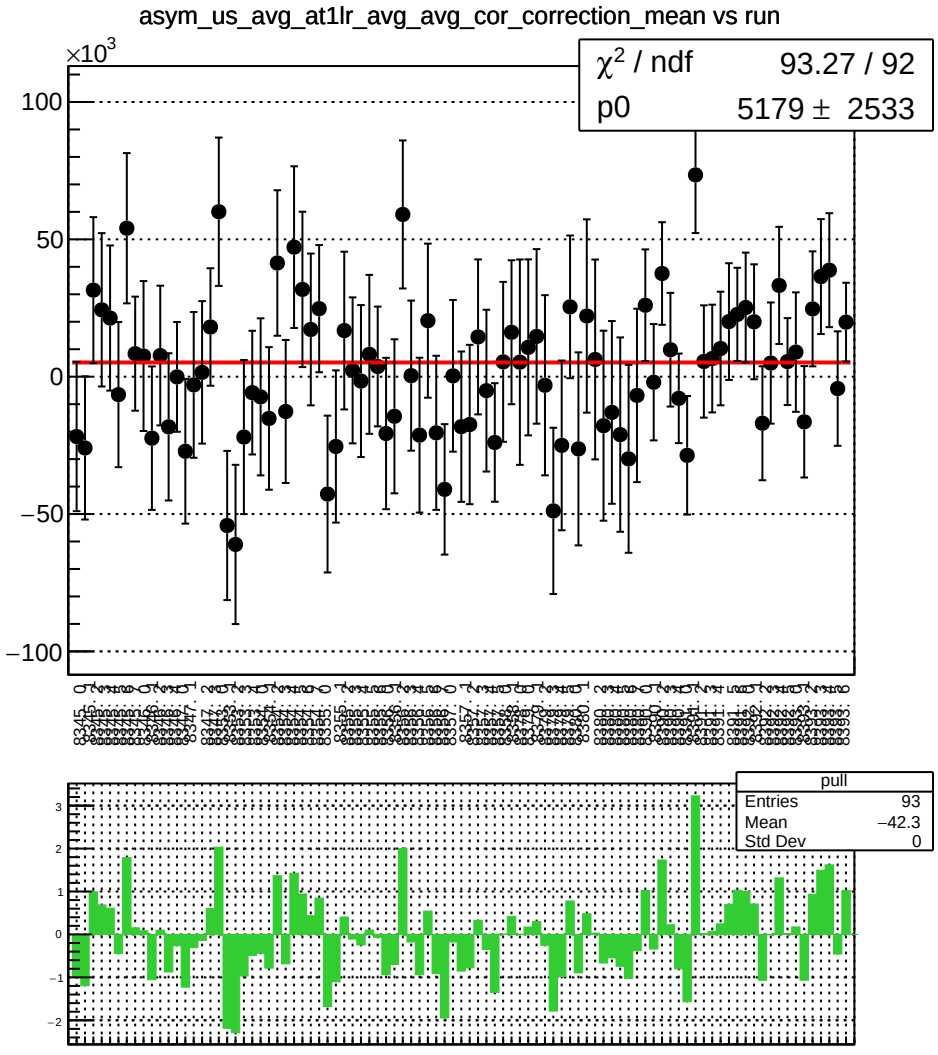

pull1D
Entries 93
Mean −0.05403
Std Dev 1
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

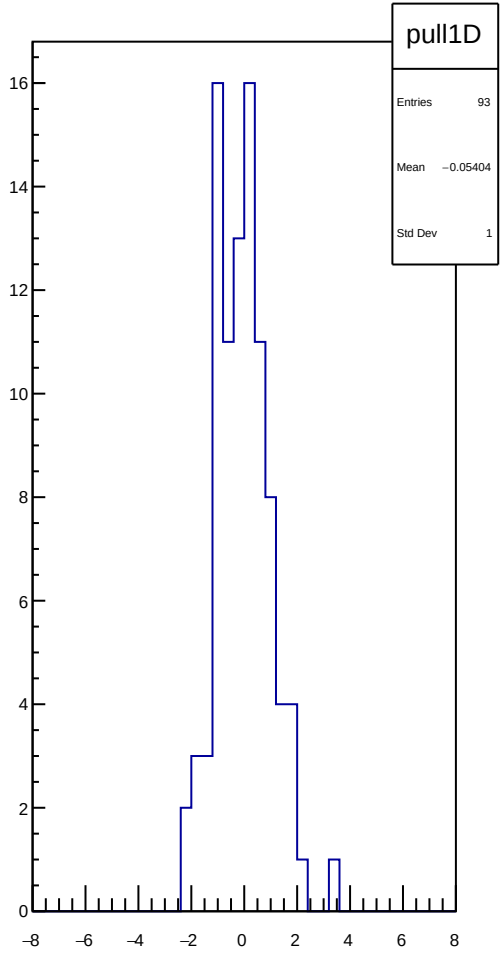

asym_us_avg_at1lr_avg_avg_reg_correction_rms vs run
χ² / ndf 5.183e+04 / 92
p0 2381 ± 1.791
3500
3000
2500
2000
1500

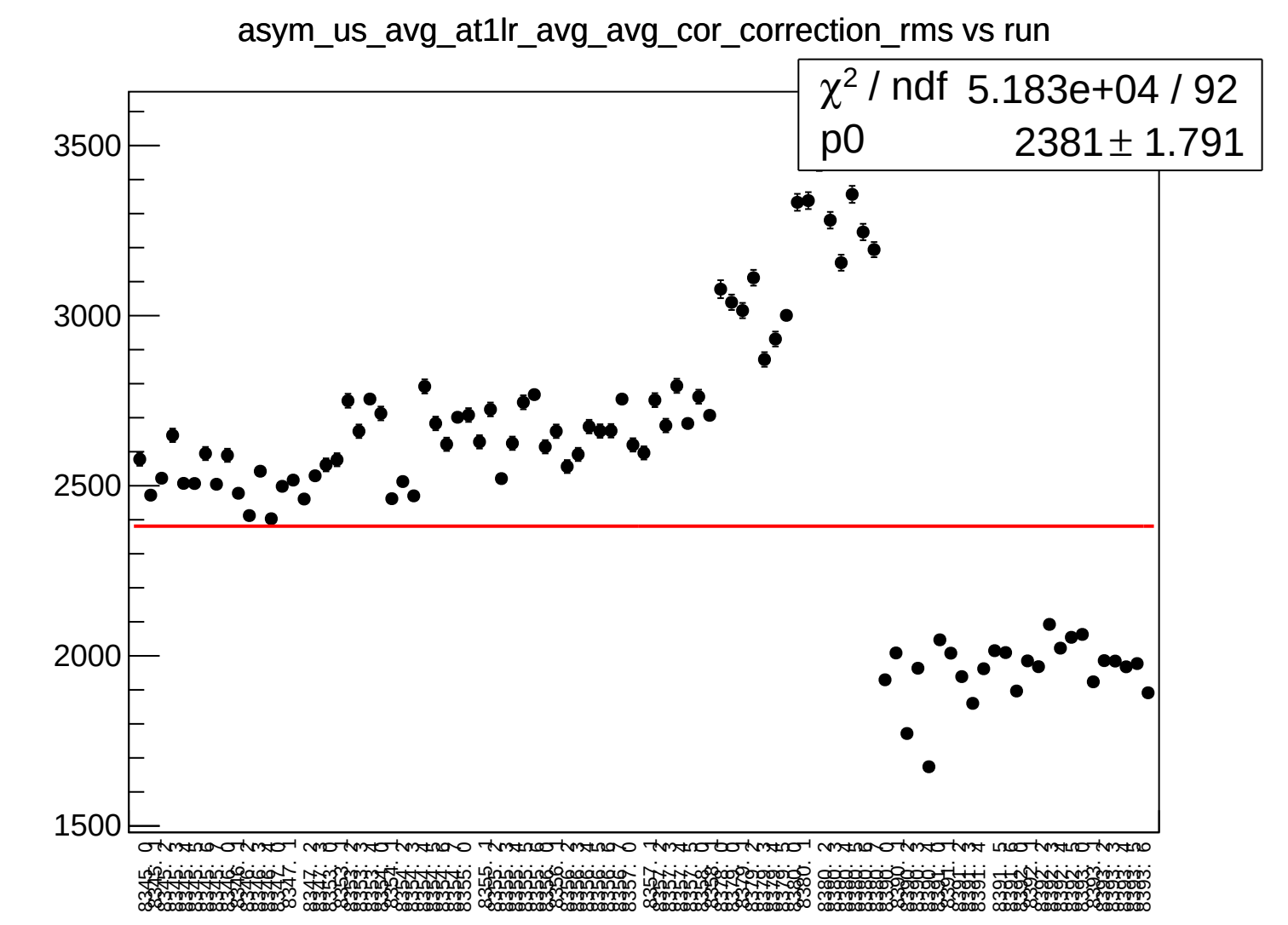

cor_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 79.56 / 92
p0 1958 ± 2305
pull
Entries 93
Mean −44.6
Std Dev 0

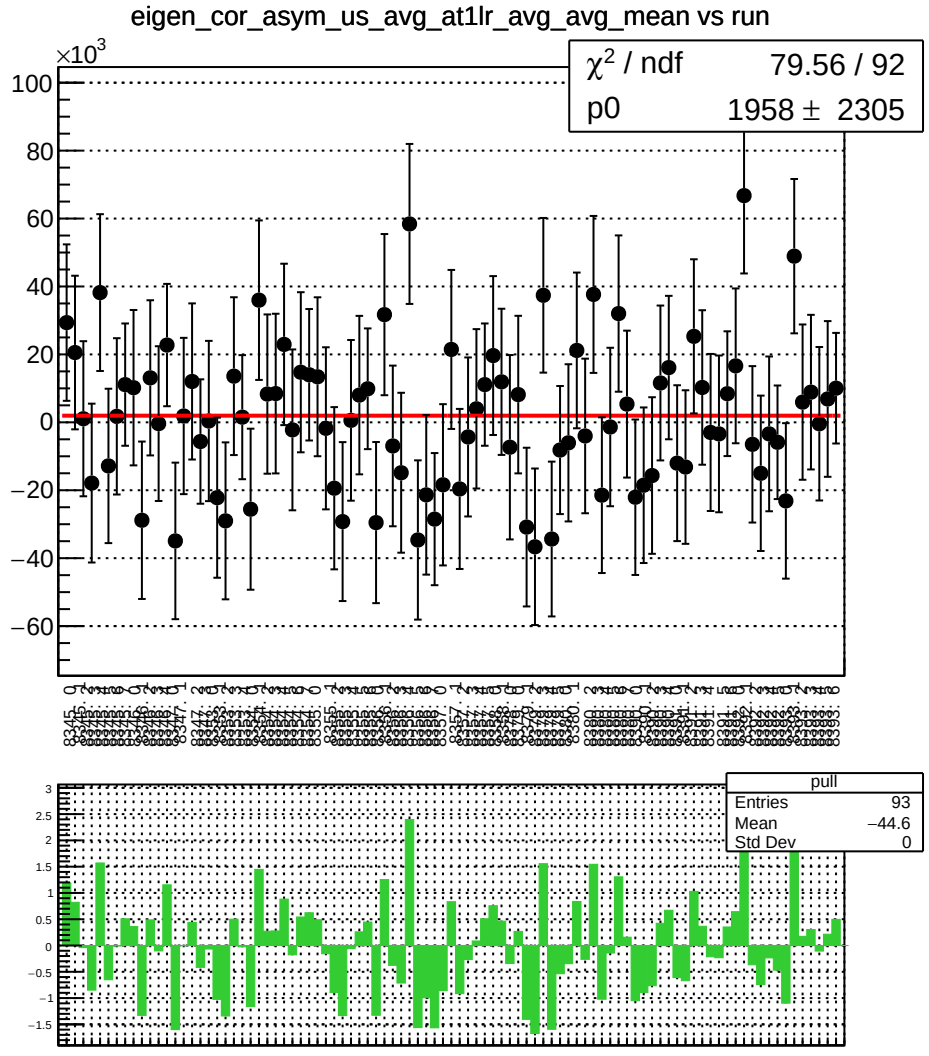

pull1D
Entries 93
Mean −0.008312
Std Dev 0.9249

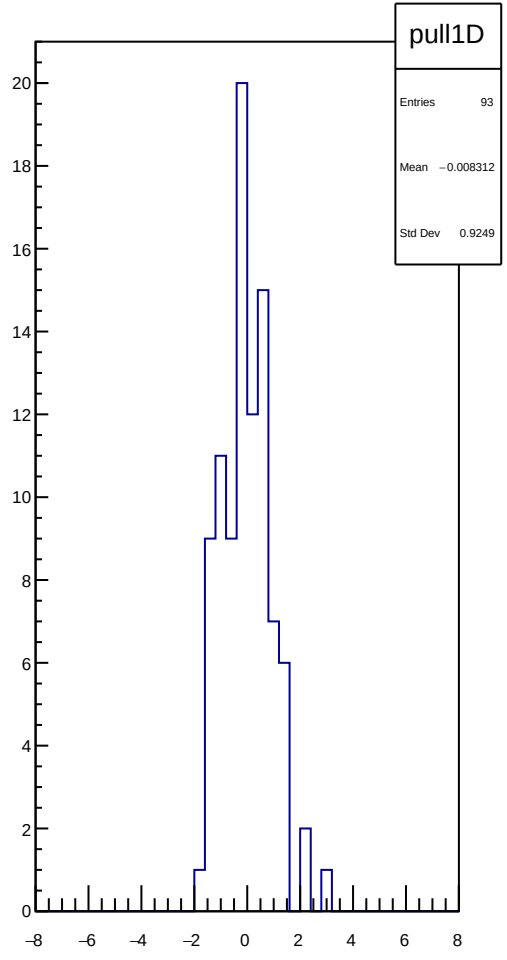

cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 447.5 / 92
p0 2198 ± 1.63
2280
2260
2240
2220
2200
2180
2160
2140
2120

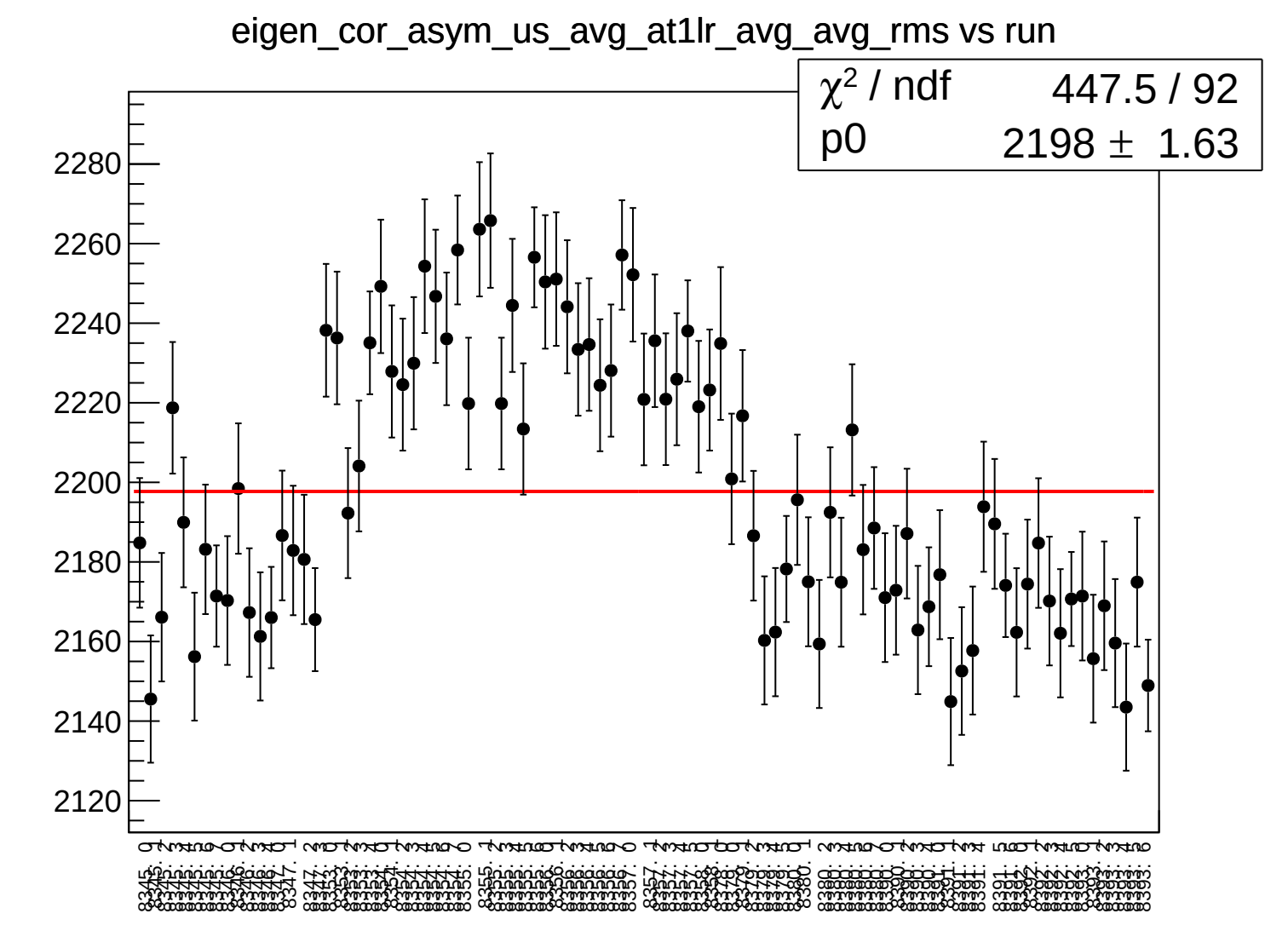

asym_us_avg_at1lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 93.27 / 92
p0 5179 ± 2533
100
50
0
−50
−100
pull
Entries 93
Mean −42.3
Std Dev 0
3
2
1
0
−1
−2

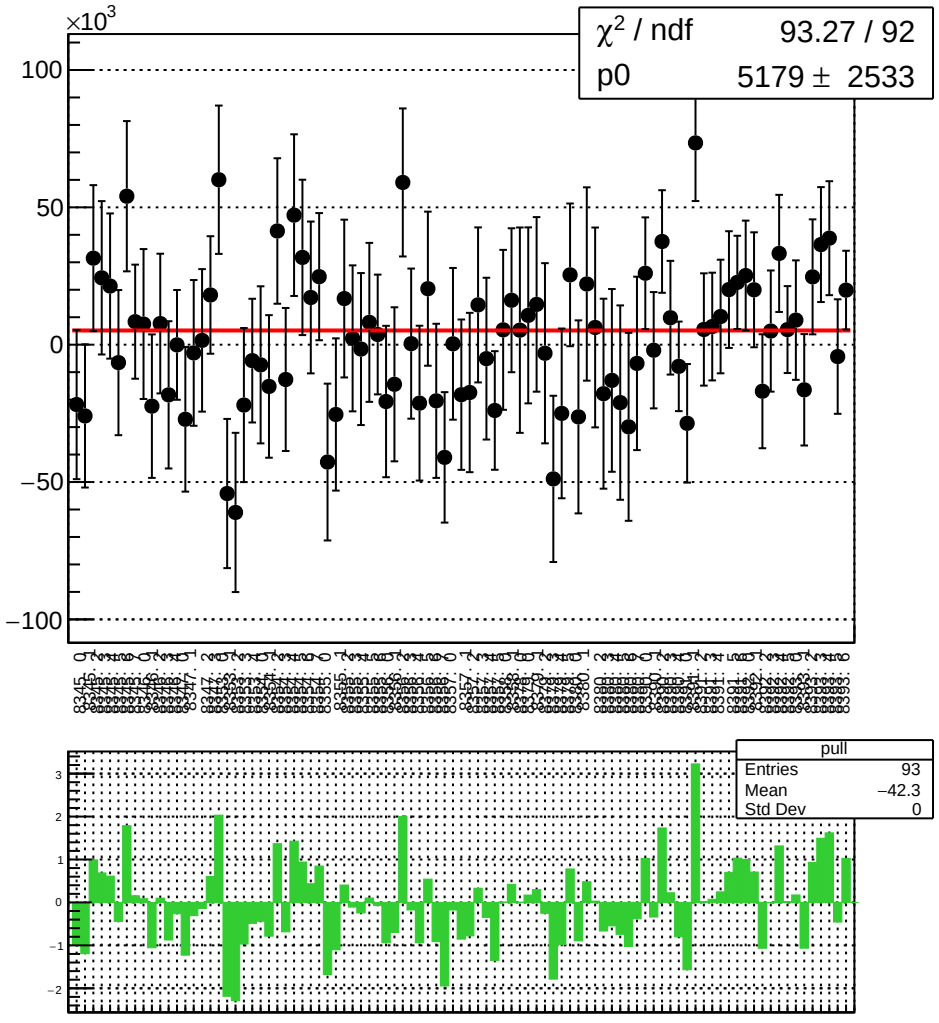

pull1D
Entries 93
Mean −0.05404
Std Dev 1
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

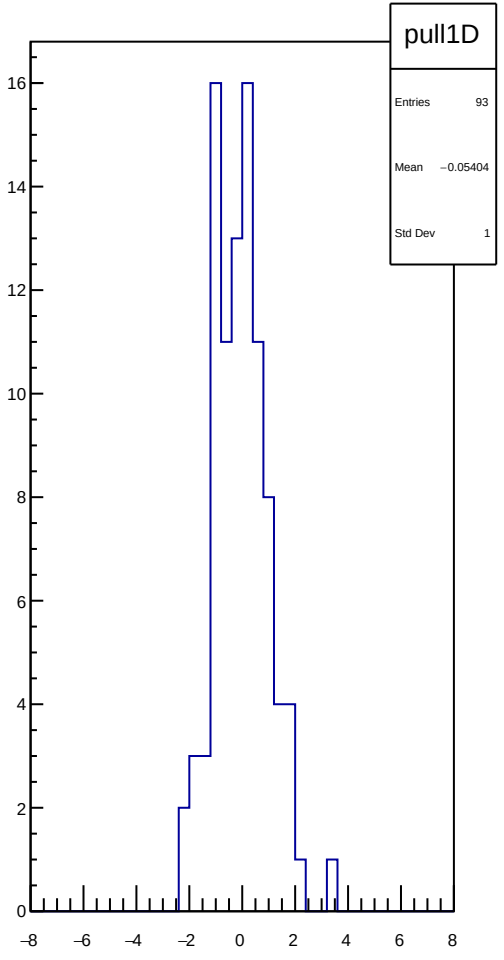

asym_us_avg_at1lr_avg_avg_cor_correction_rms vs run
χ² / ndf 5.183e+04 / 92
p0 2381 ± 1.791
3500
3000
2500
2000
1500

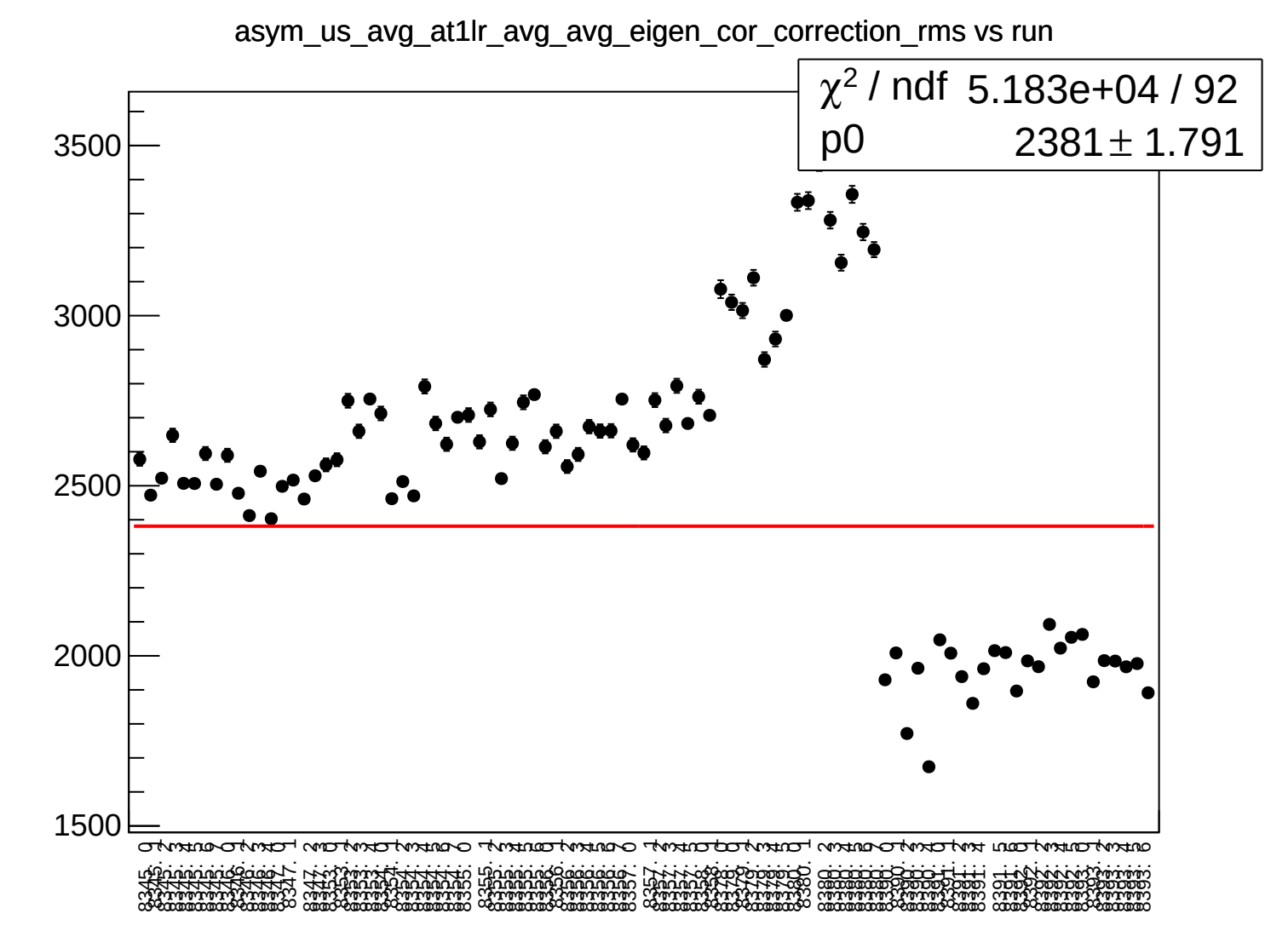

eigen_cor_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 79.56 / 92
p0 1958 ± 2305
pull
Entries 93
Mean −44.6
Std Dev 0

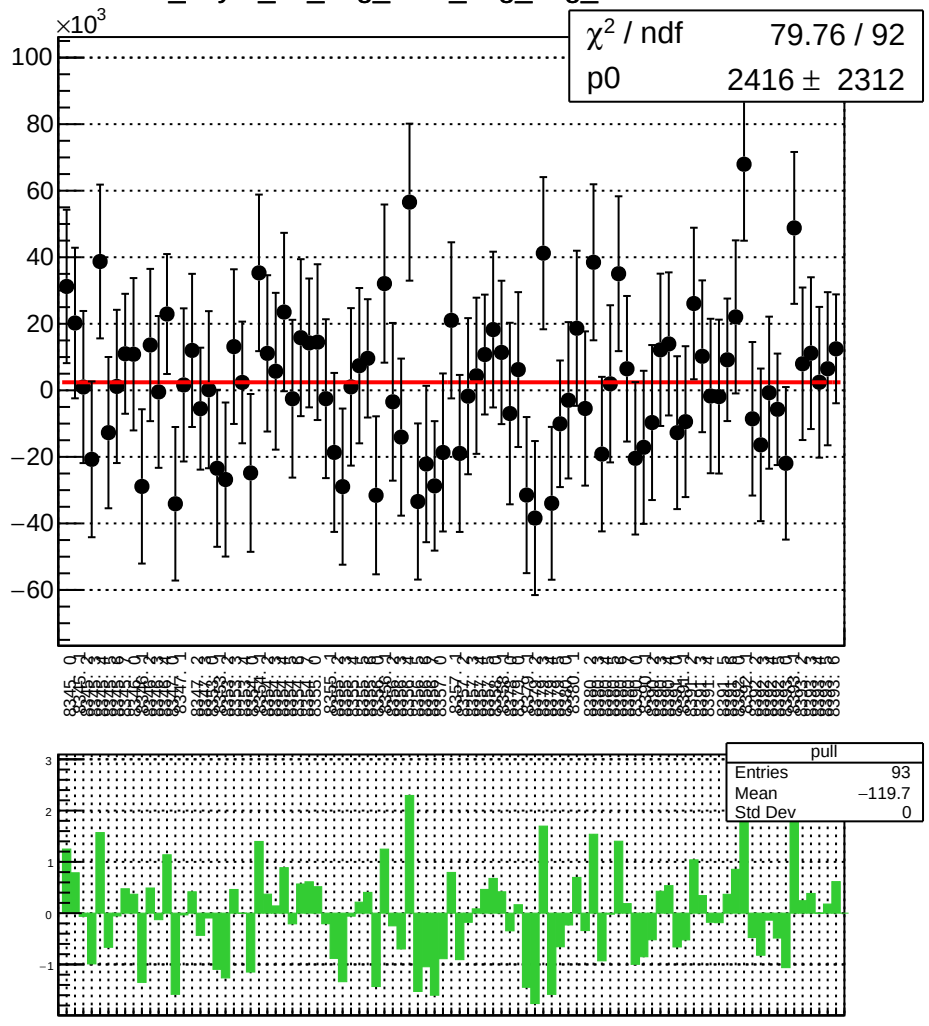

pull1D
Entries 93
Mean −0.008312
Std Dev 0.9249

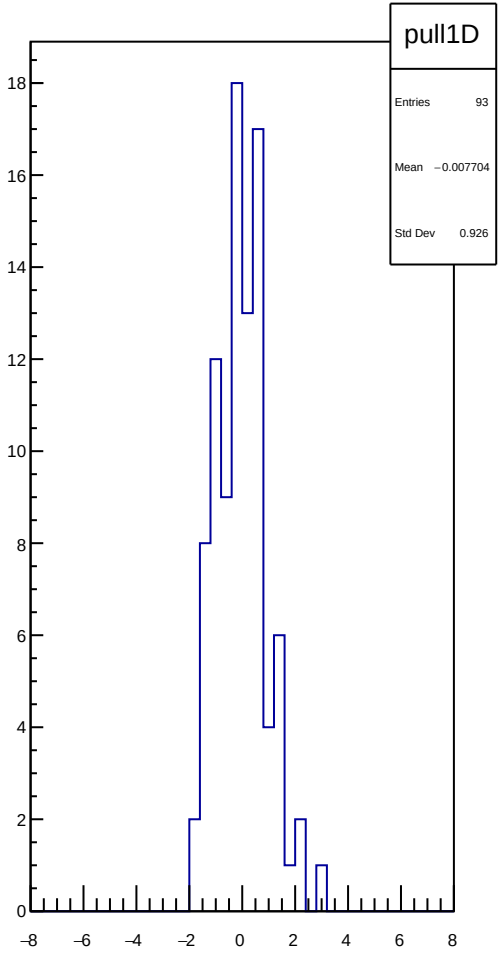

eigen_cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 447.5 / 92
p0 2198 ± 1.63
2280
2260
2240
2220
2200
2180
2160
2140
2120

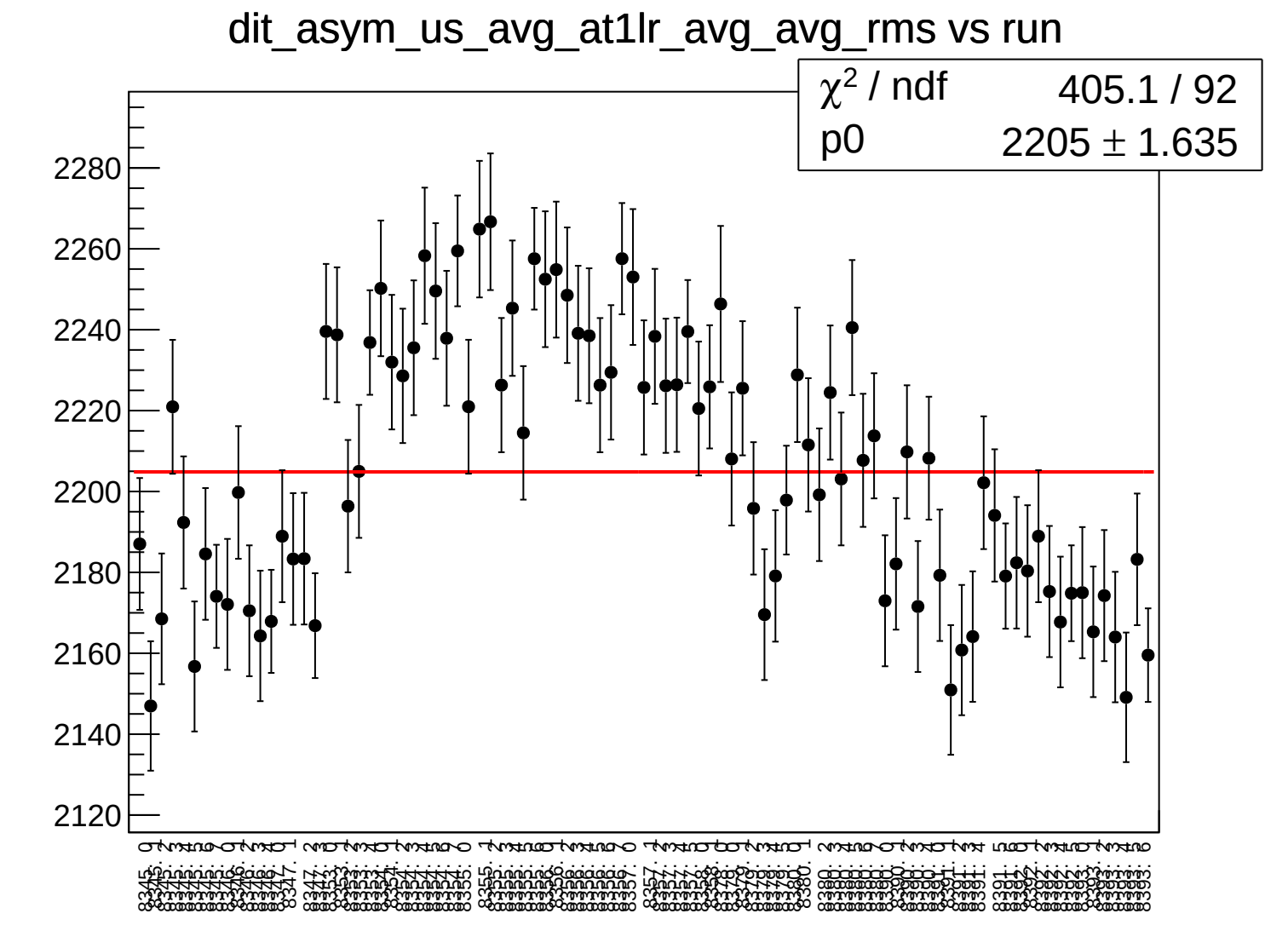

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 93.27 / 92
p0 5179 ± 2533
100
50
0
−50
−100
pull
Entries 93
Mean −42.3
Std Dev 0
3
2
1
0
−1
−2

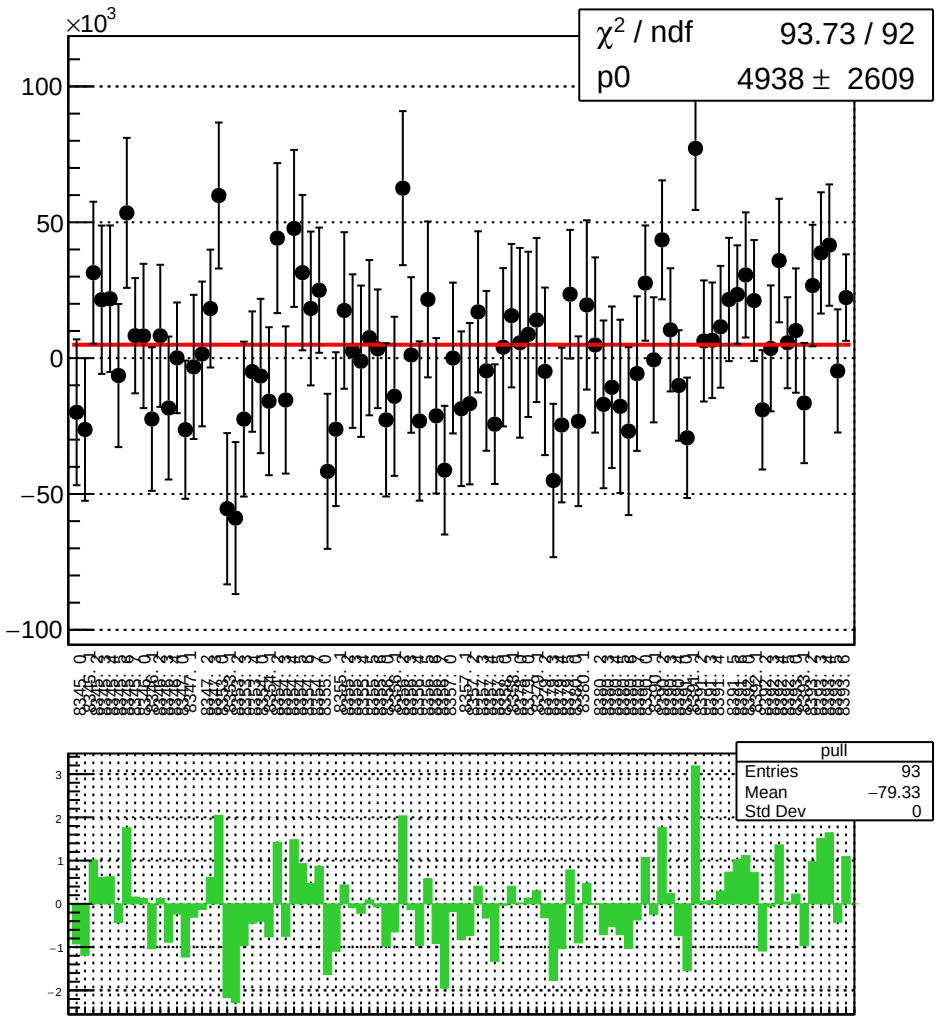

pull1D
Entries 93
Mean −0.05404
Std Dev 1
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

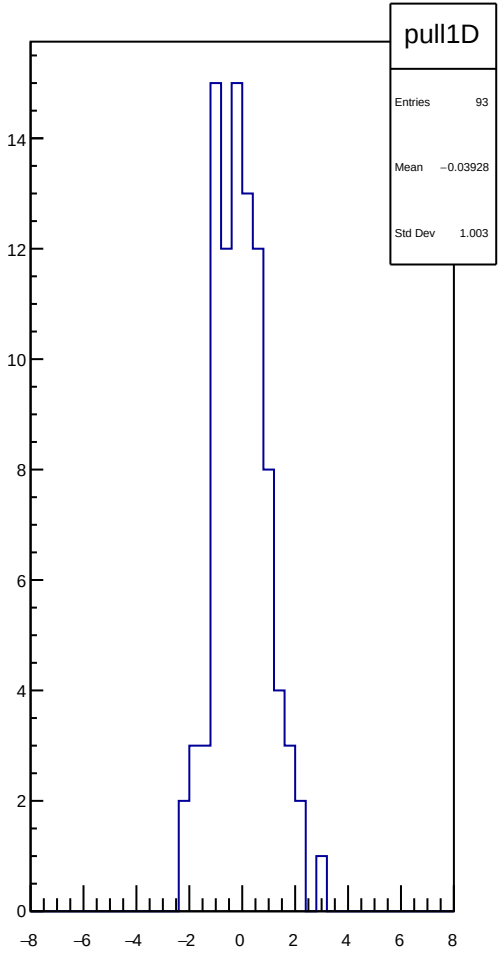

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 5.183e+04 / 92
p0 2381 ± 1.791
3500
3000
2500
2000
1500

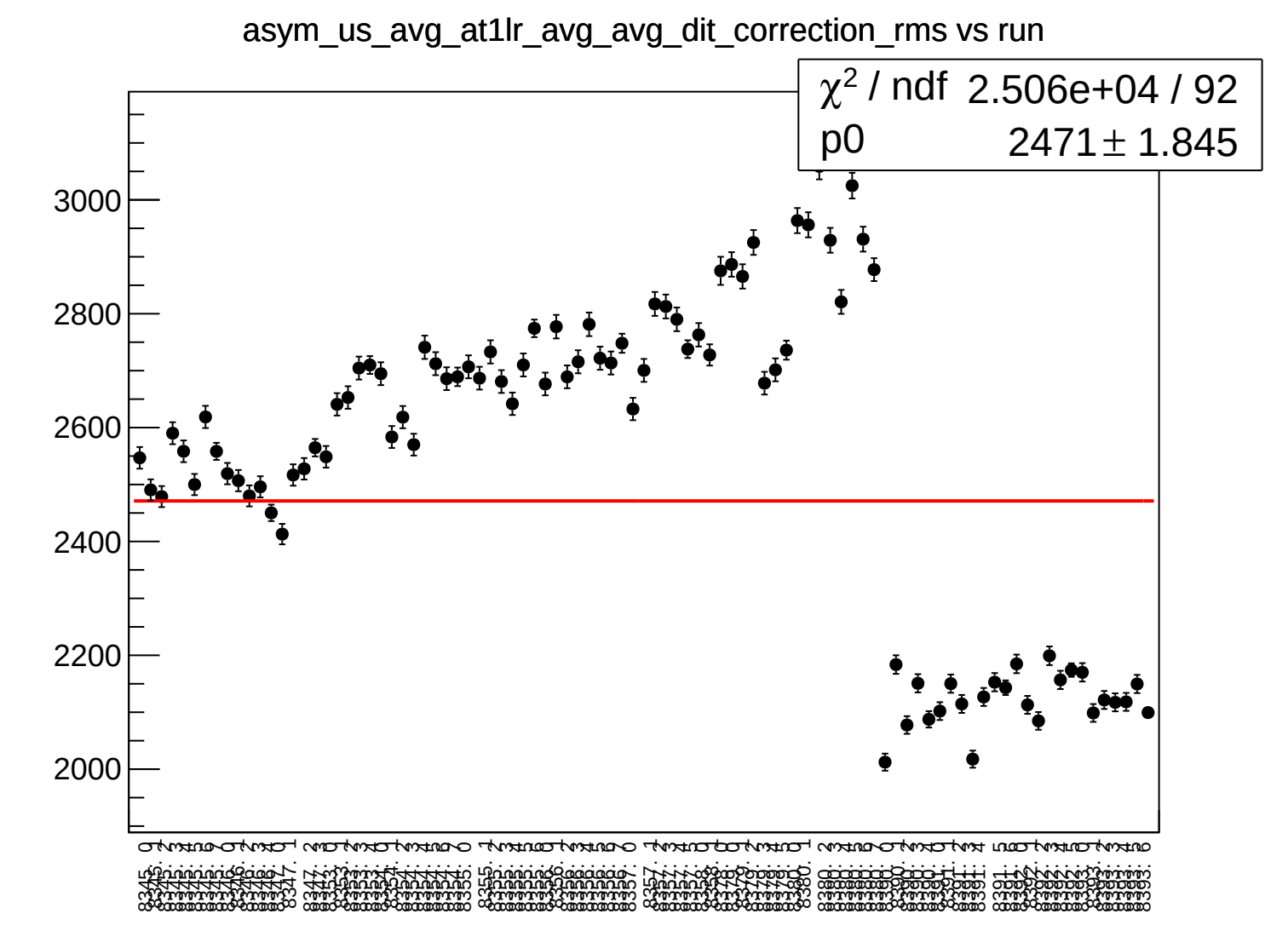

dit_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 79.76 / 92
p0 2416 ± 2312
pull
Entries 93
Mean −119.7
Std Dev 0

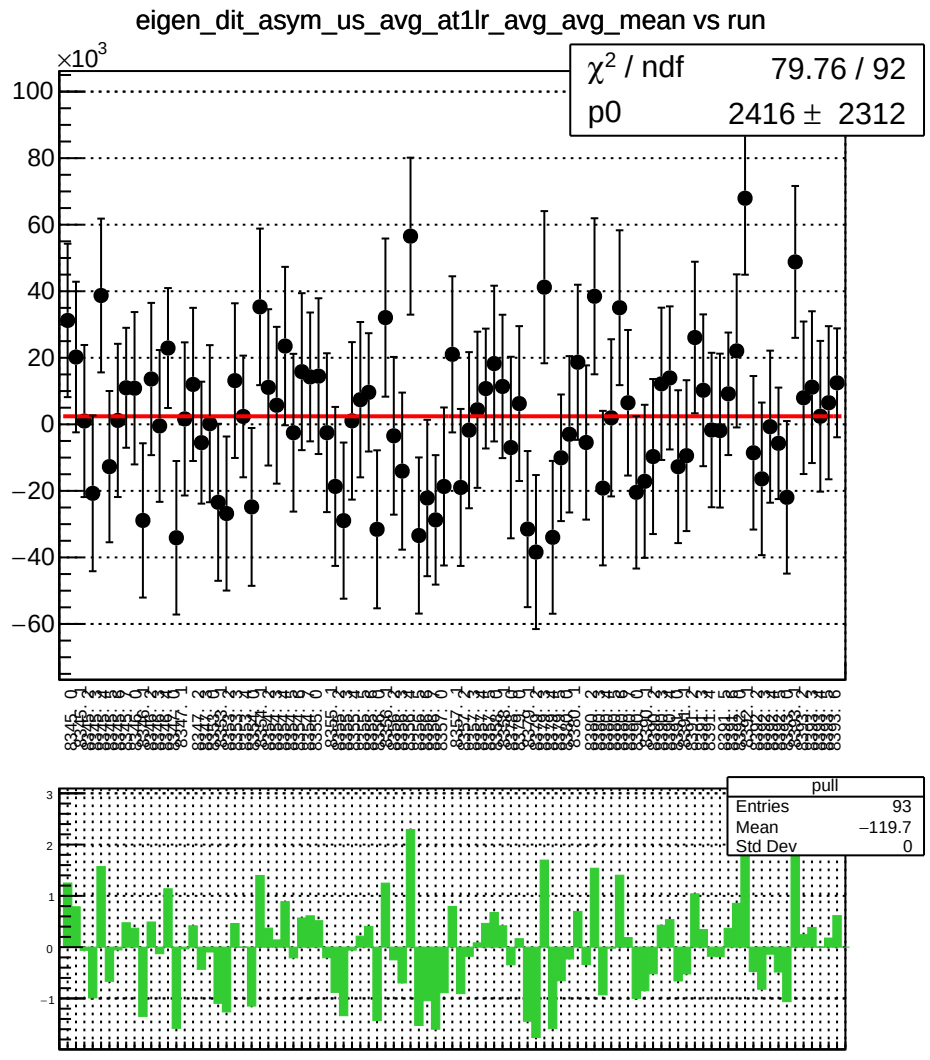

pull1D
Entries 93
Mean −0.007704
Std Dev 0.926

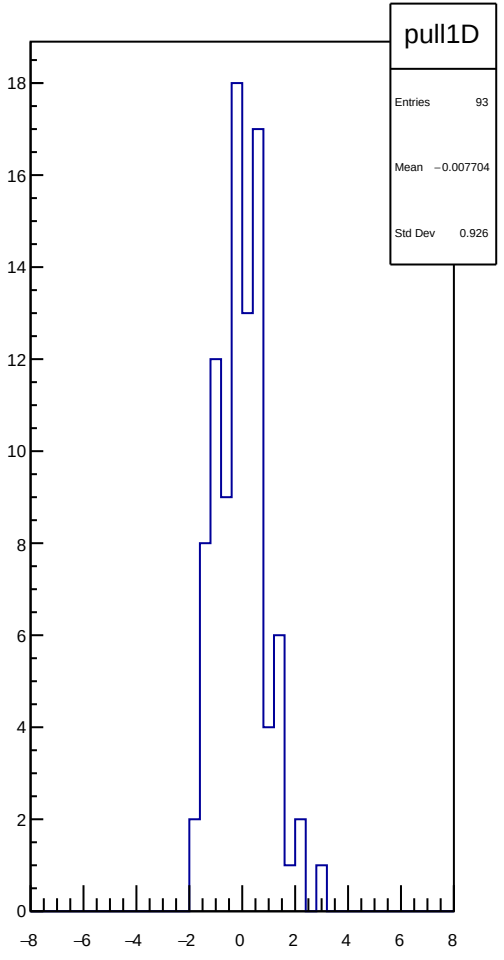

dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 405.1 / 92
p0 2205 ± 1.635
2280
2260
2240
2220
2200
2180
2160
2140
2120

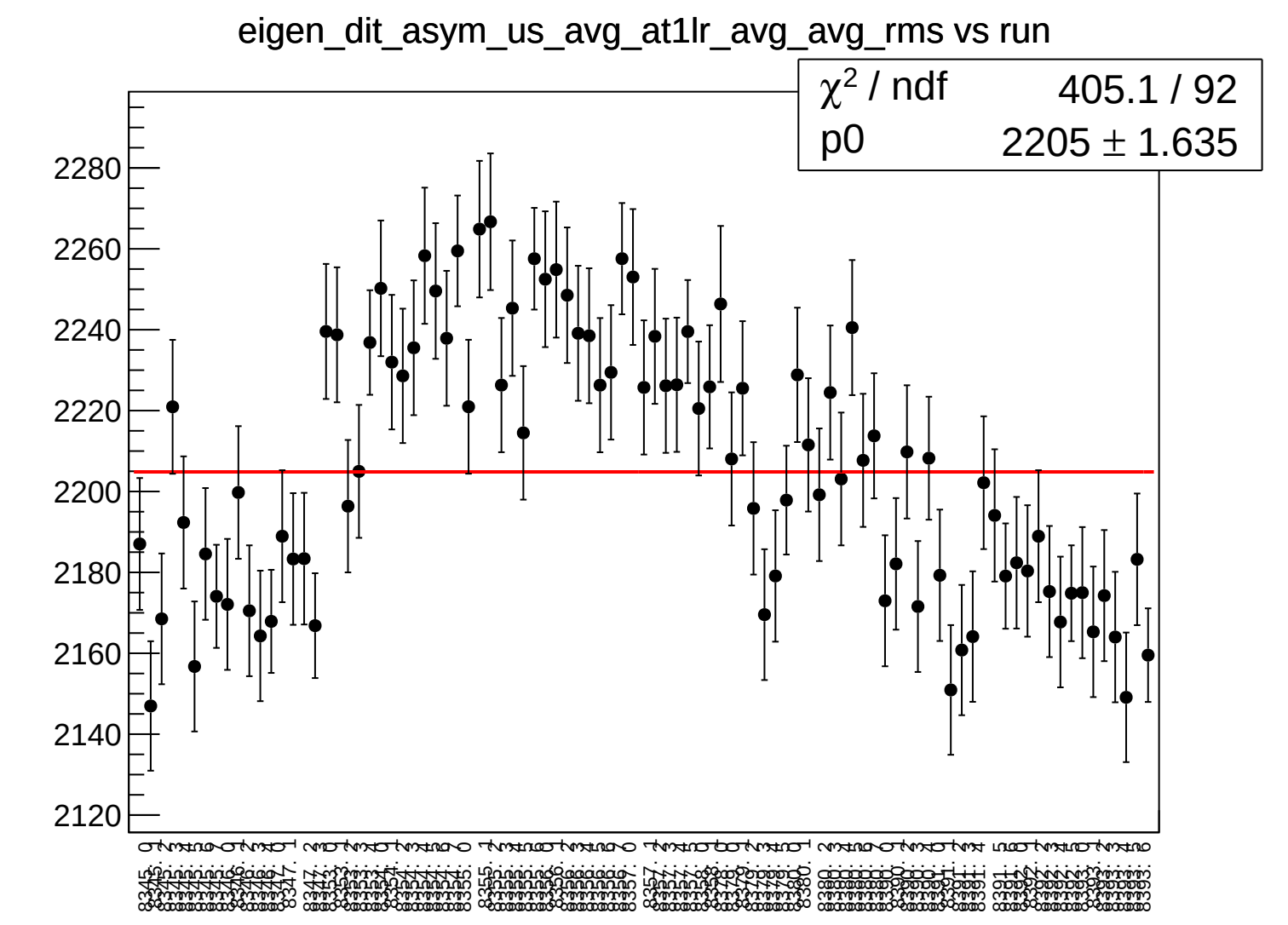

asym_us_avg_at1lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 93.73 / 92
p0 4938 ± 2609
100
50
0
−50
−100
pull
Entries 93
Mean −79.33
Std Dev 0
3
2
1
0
−1
−2

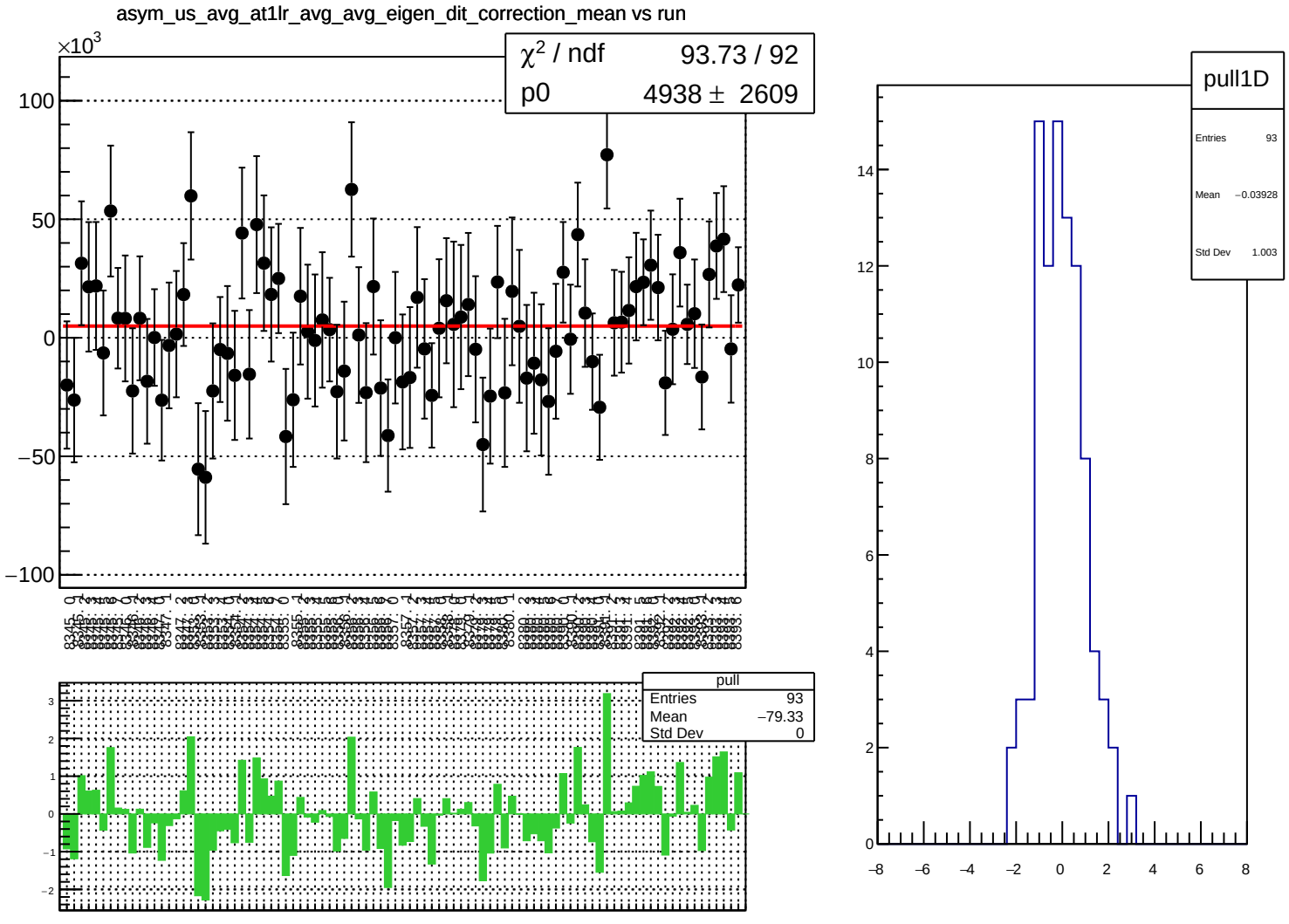

pull1D
Entries 93
Mean −0.03928
Std Dev 1.003
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

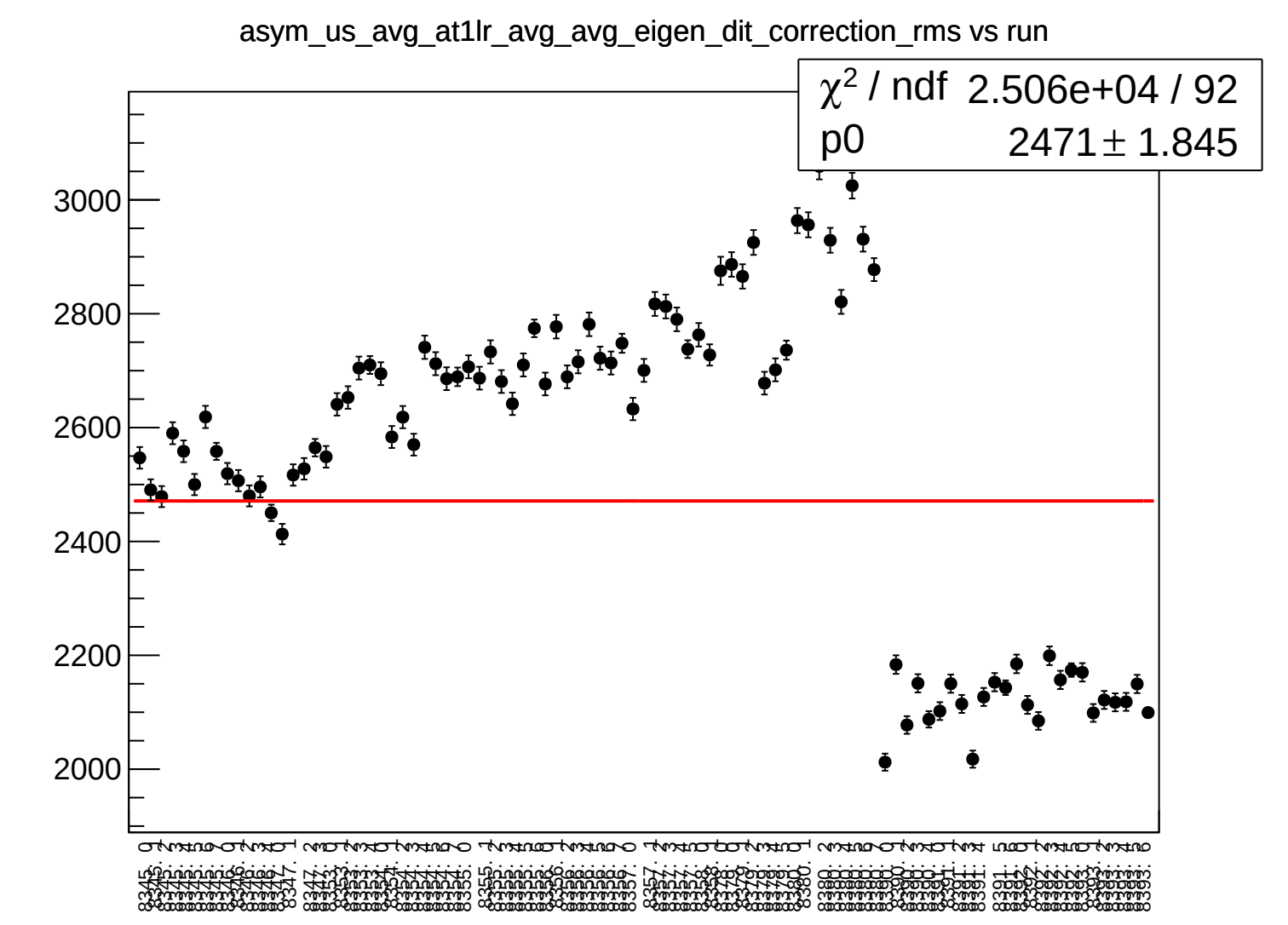

asym_us_avg_at1lr_avg_avg_dit_correction_rms vs run
χ² / ndf 2.506e+04 / 92
p0 2471 ± 1.845
3000
2800
2600
2400
2200
2000

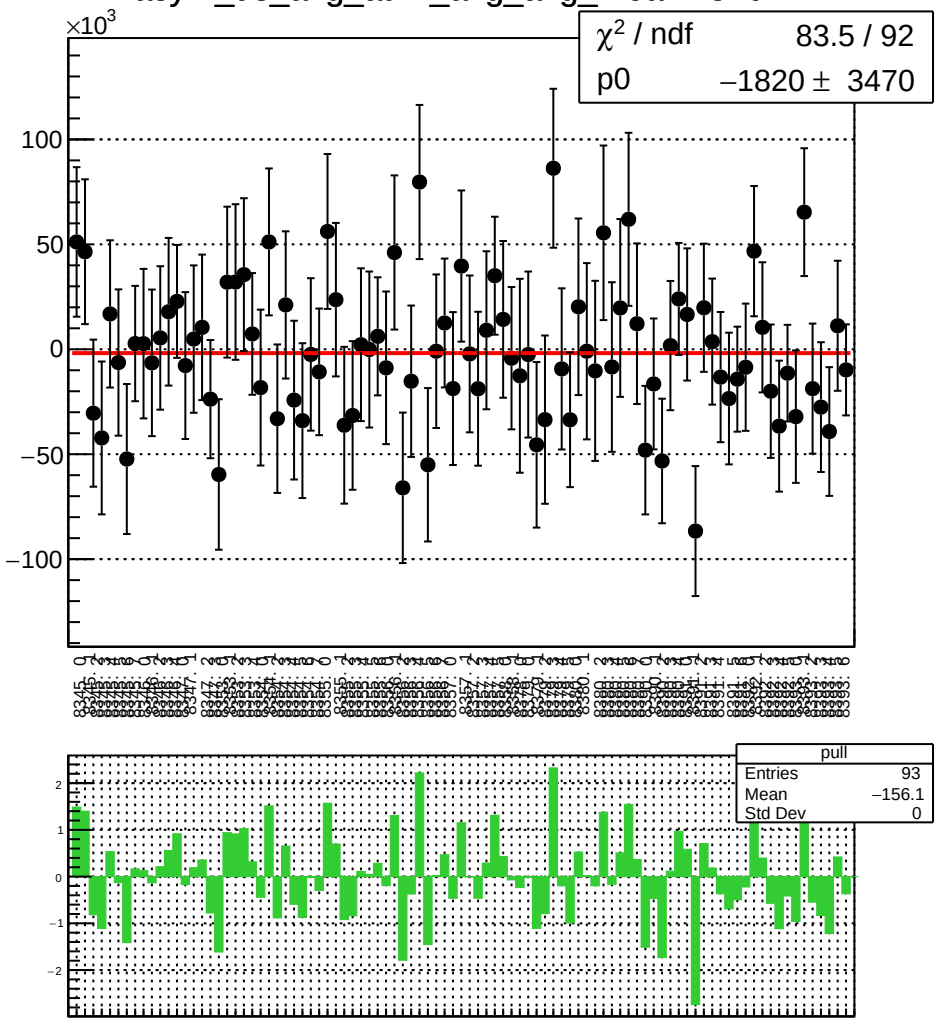

eigen_dit_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 79.76 / 92
p0 2416 ± 2312
pull
Entries 93
Mean −119.7
Std Dev 0

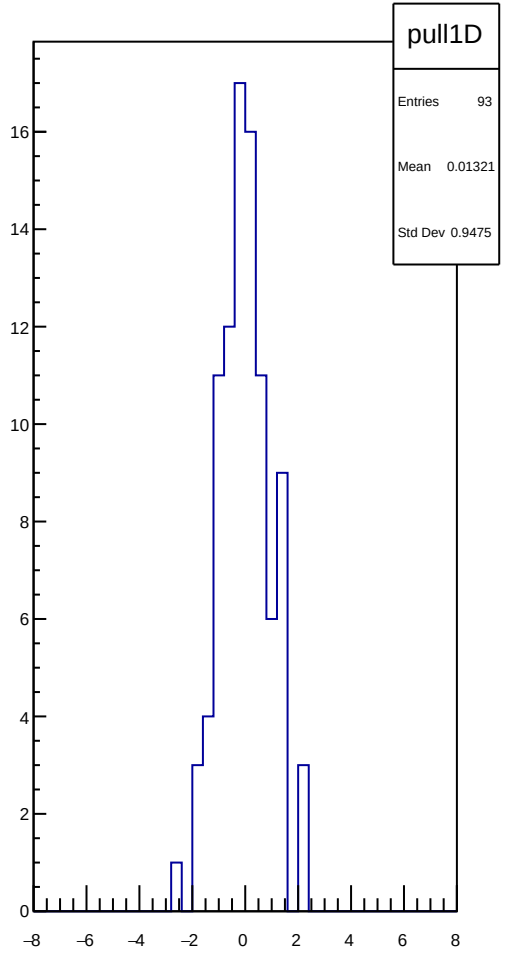

pull1D
Entries 93
Mean −0.007704
Std Dev 0.926

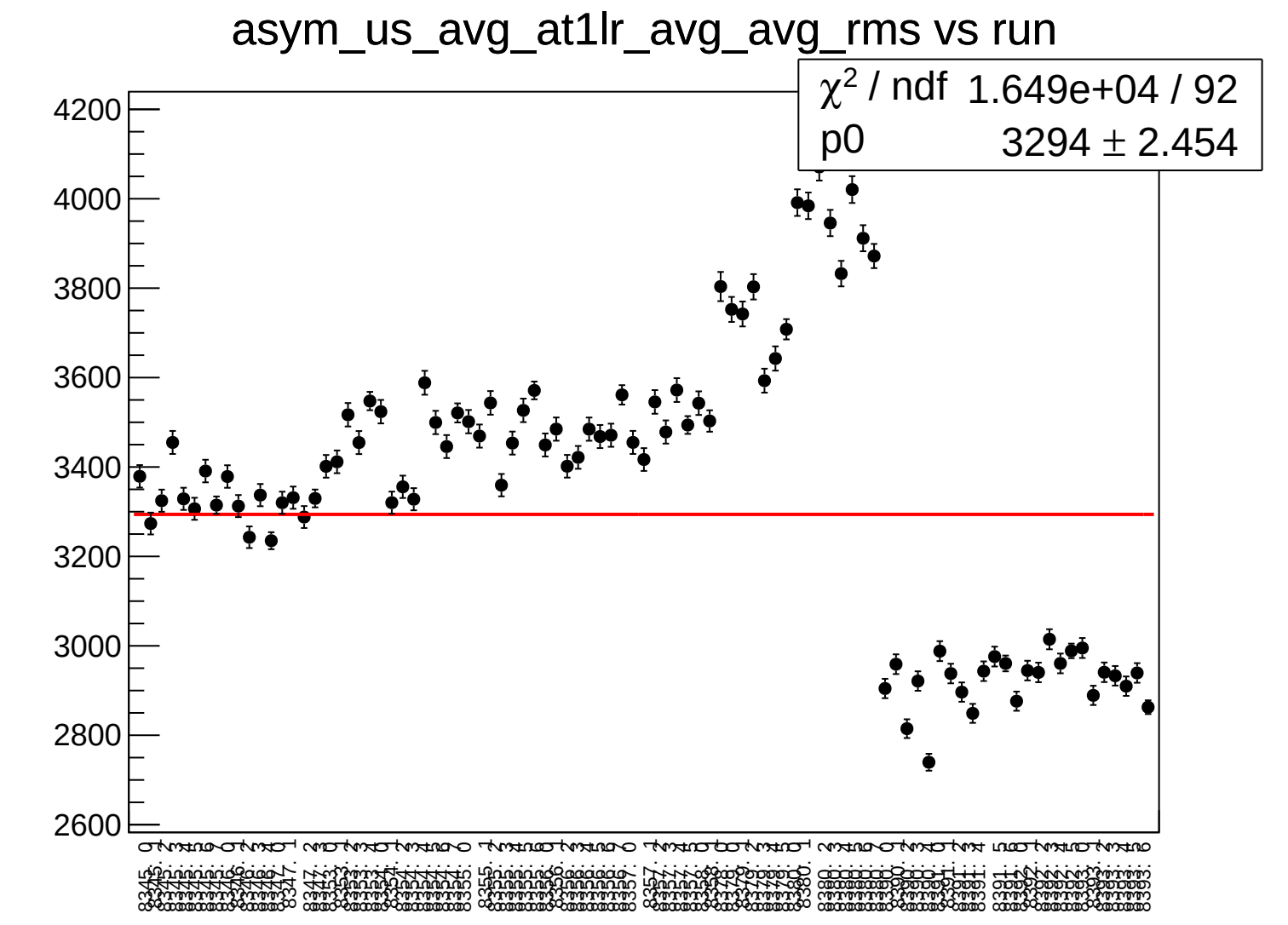

eigen_dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 405.1 / 92
p0 2205 ± 1.635
2280
2260
2240
2220
2200
2180
2160
2140
2120

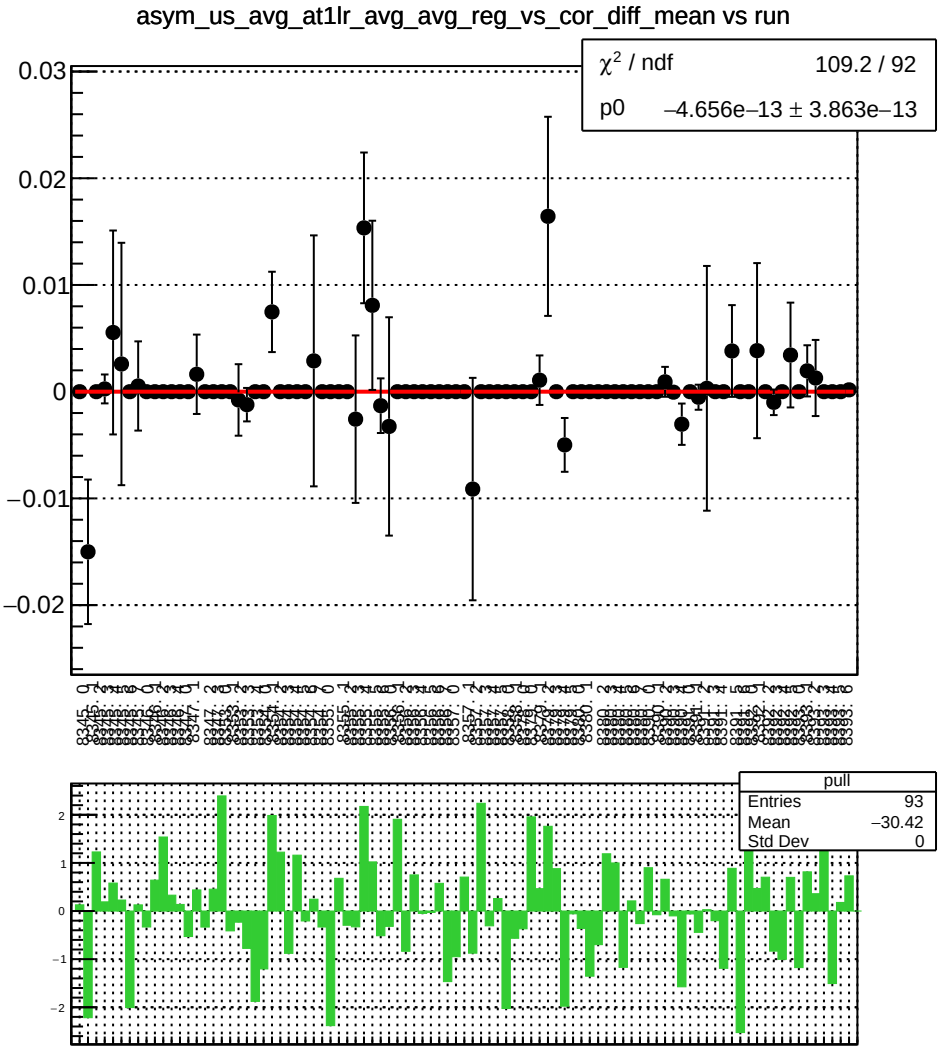

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 93.73 / 92
p0 4938 ± 2609
100
50
0
−50
−100
pull
Entries 93
Mean −79.33
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.03928
Std Dev 1.003
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

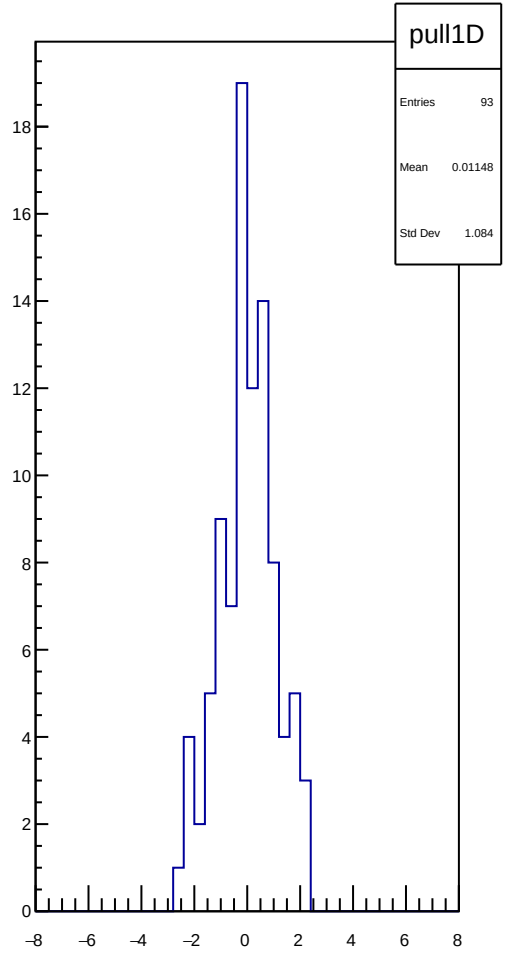

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.506e+04 / 92
p0 2471 ± 1.845
3000
2800
2600
2400
2200
2000

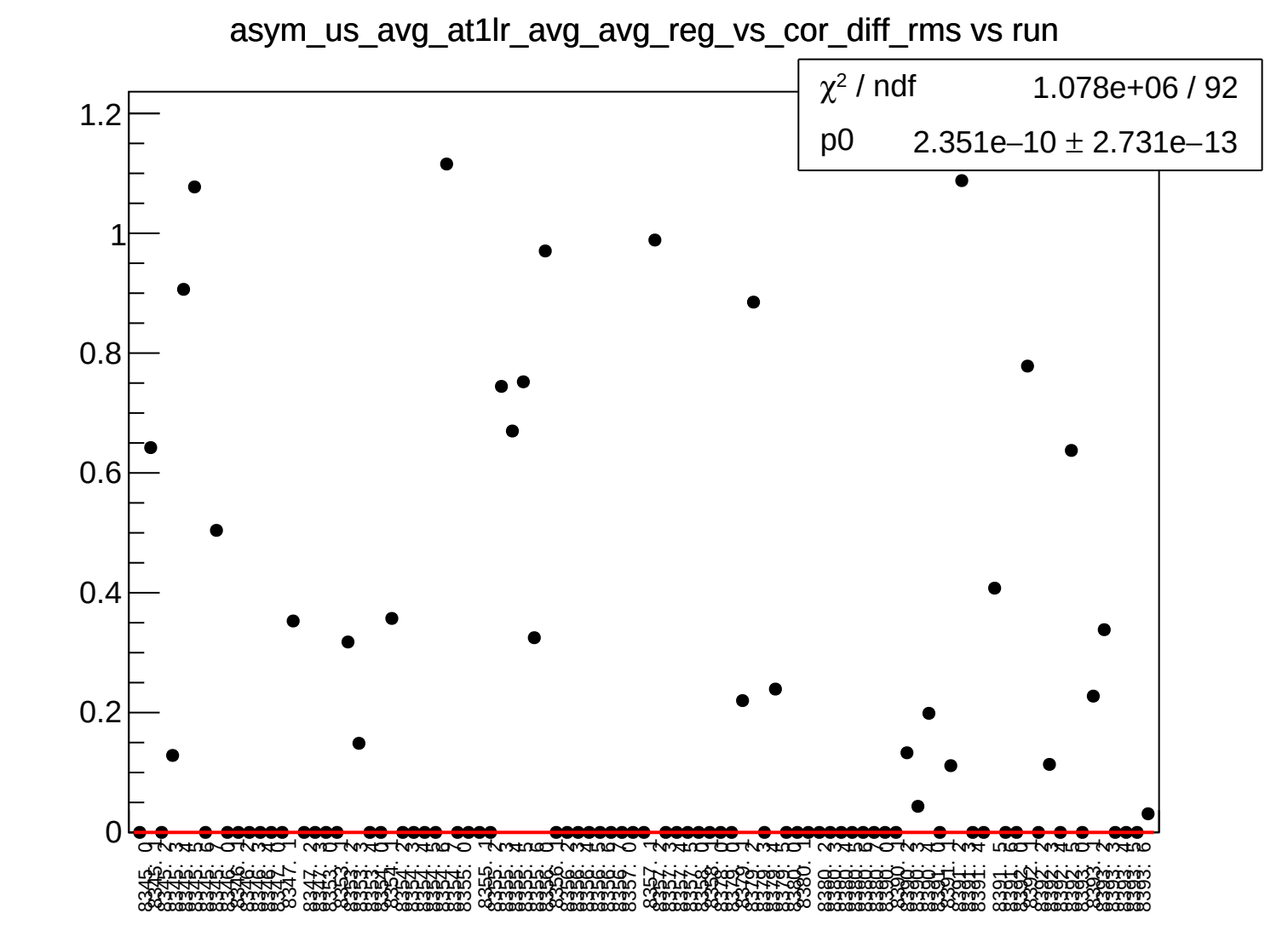

asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 83.5 / 92
p0 −1820 ± 3470
100
50
0
−50
−100
pull
Entries 93
Mean −156.1
Std Dev 0
2
1
0
−1
−2

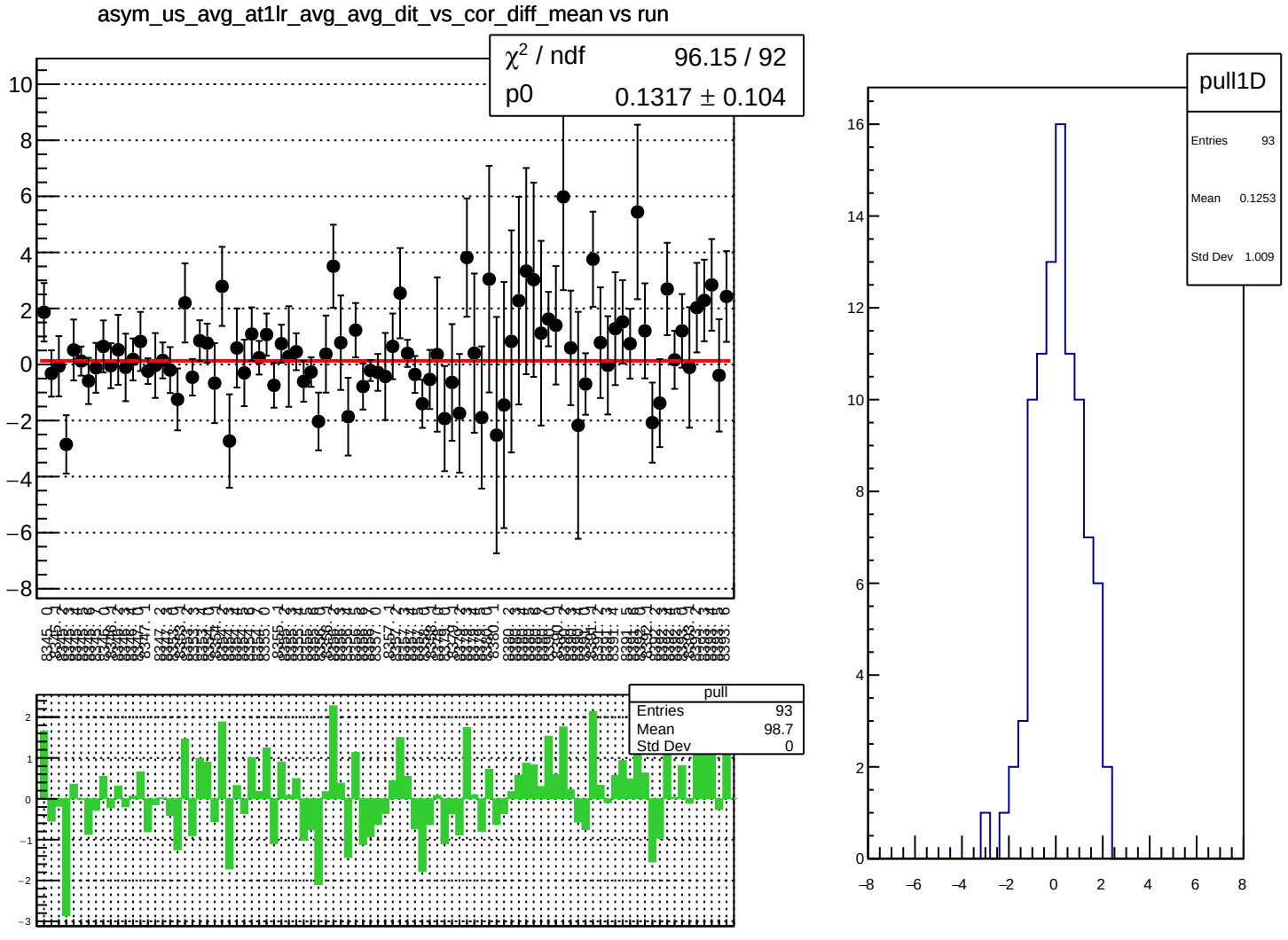

pull1D
Entries 93
Mean 0.01321
Std Dev 0.9475
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

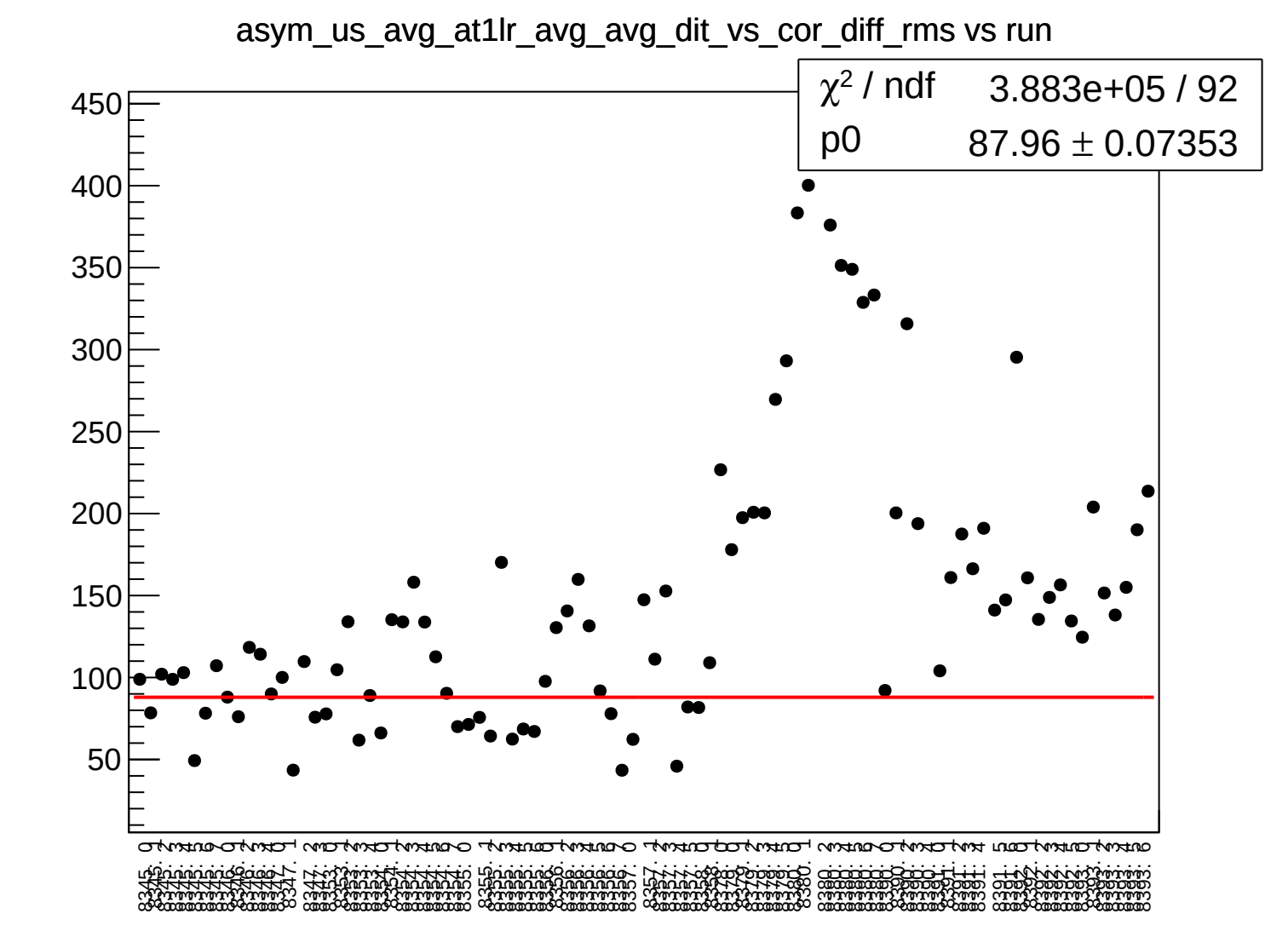

asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 1.649e+04 / 92
p0 3294 ± 2.454
4200
4000
3800
3600
3400
3200
3000
2800
2600

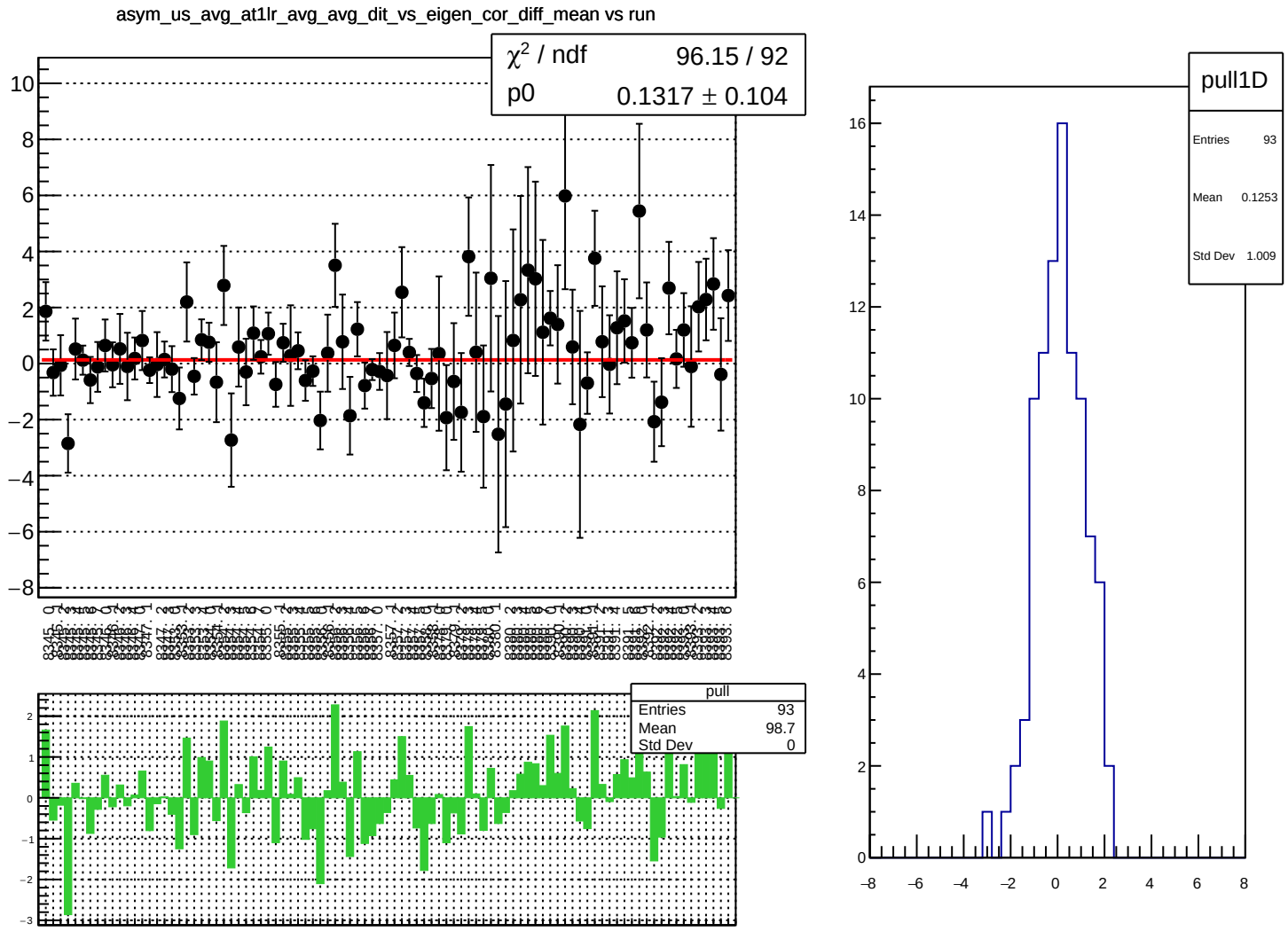

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 109.2 / 92
p0 −4.656e−13 ± 3.863e−13
pull
Entries 93
Mean −30.42
Std Dev 0

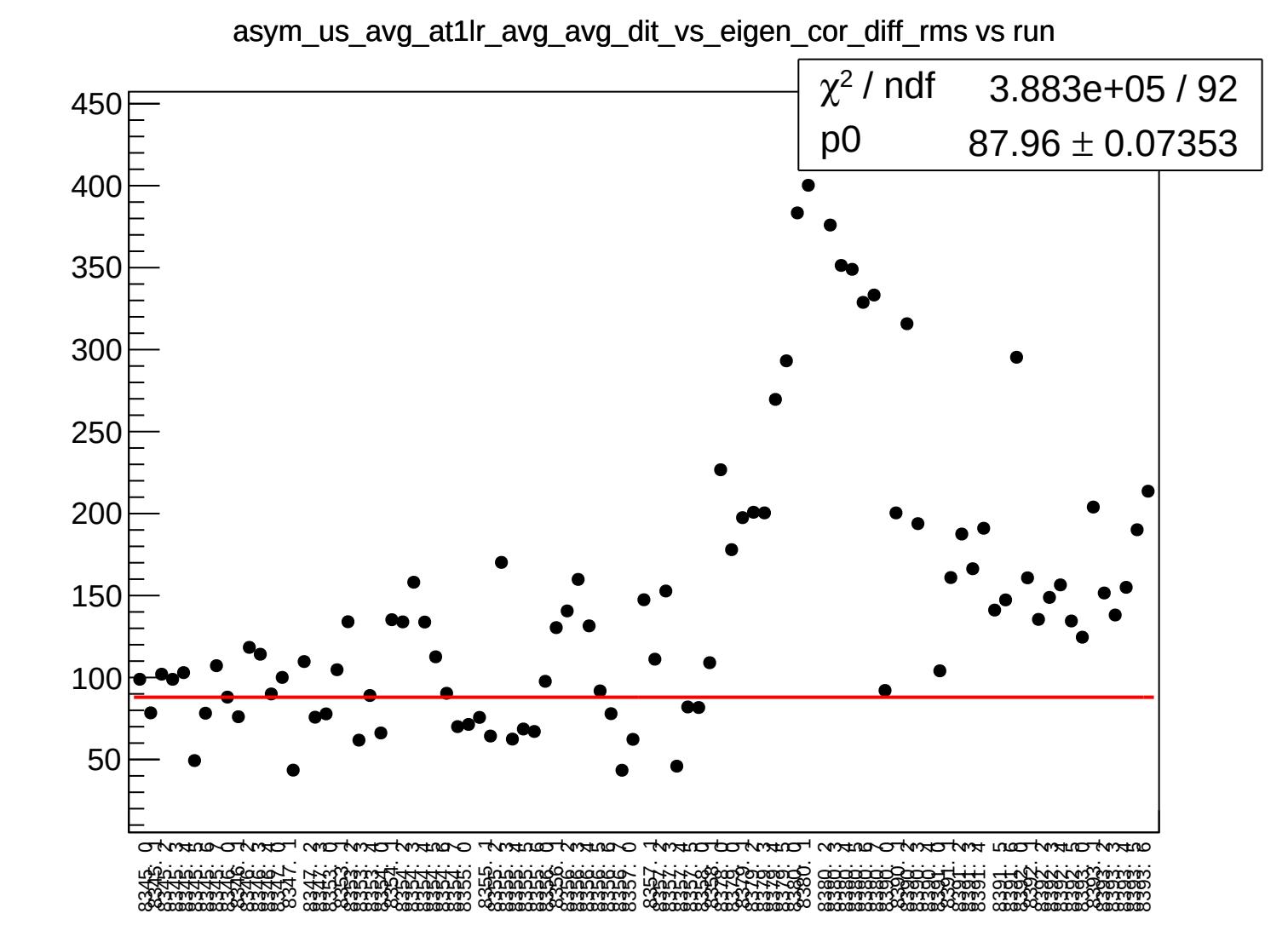

pull1D
Entries 93
Mean 0.01148
Std Dev 1.084

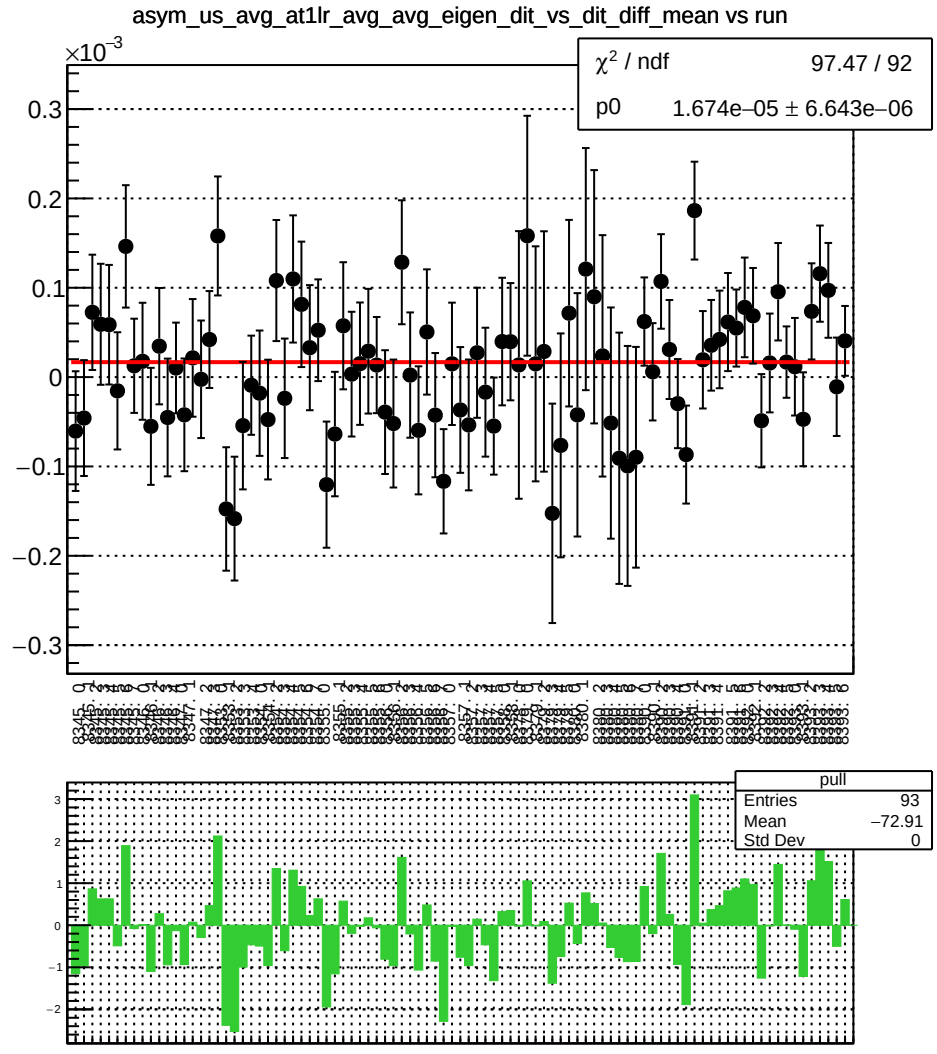

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.078e+06 / 92
p0 2.351e−10 ± 2.731e−13
1.2
1
0.8
0.6
0.4
0.2
0

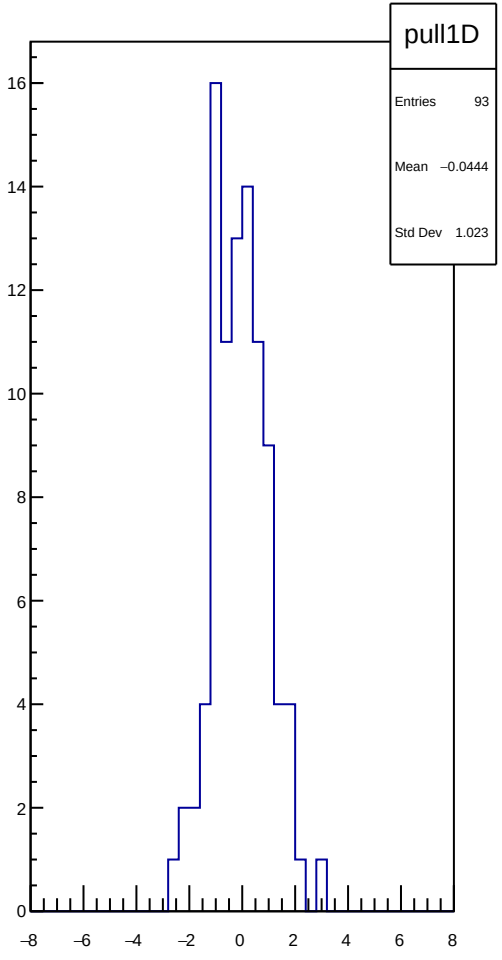

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 96.15 / 92
p0 0.1317 ± 0.104
pull
Entries 93
Mean 98.7
Std Dev 0
pull1D
Entries 93
Mean 0.1253
Std Dev 1.009

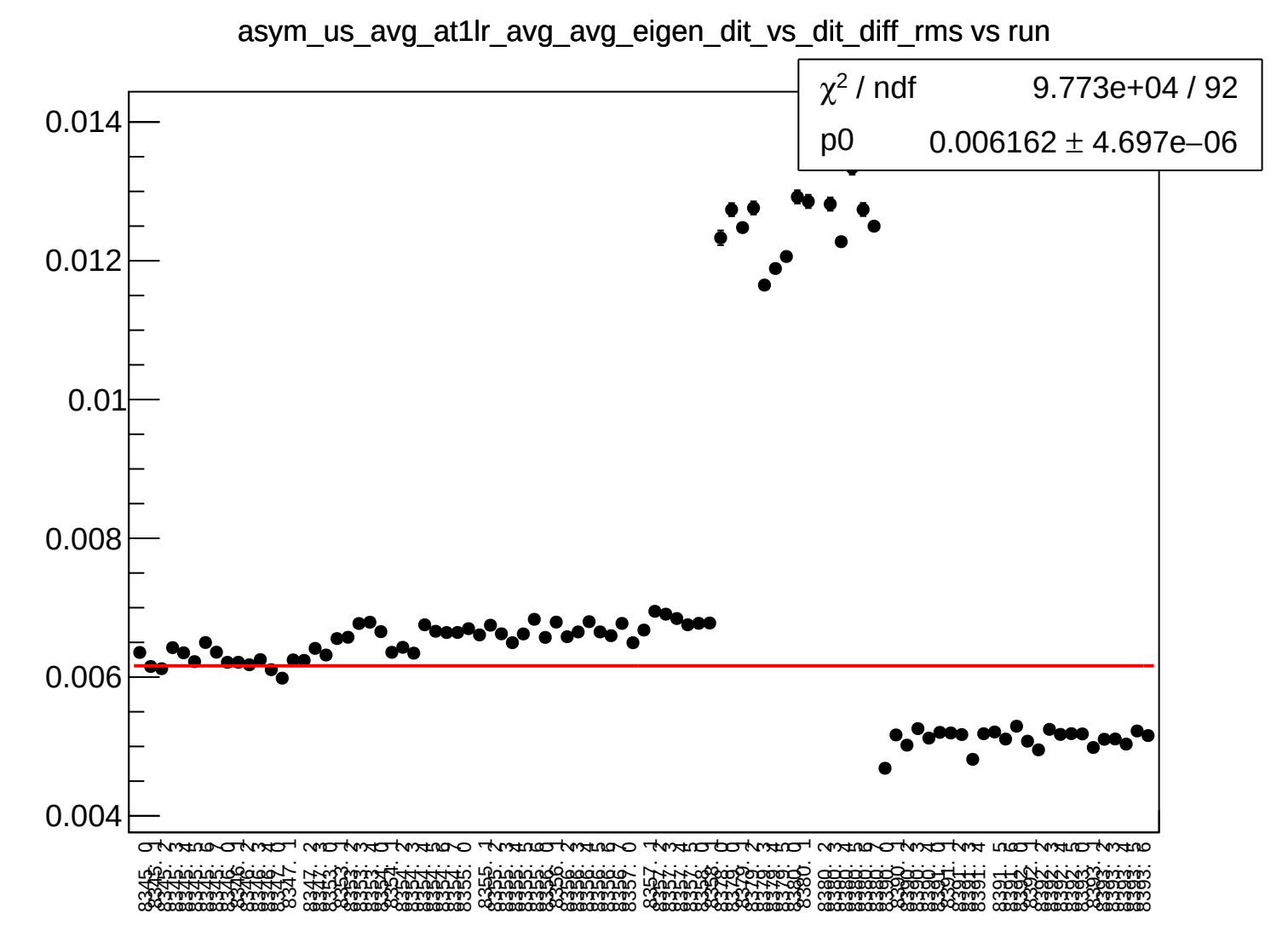

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.883e+05 / 92
p0 87.96 ± 0.07353
450
400
350
300
250
200
150
100
50

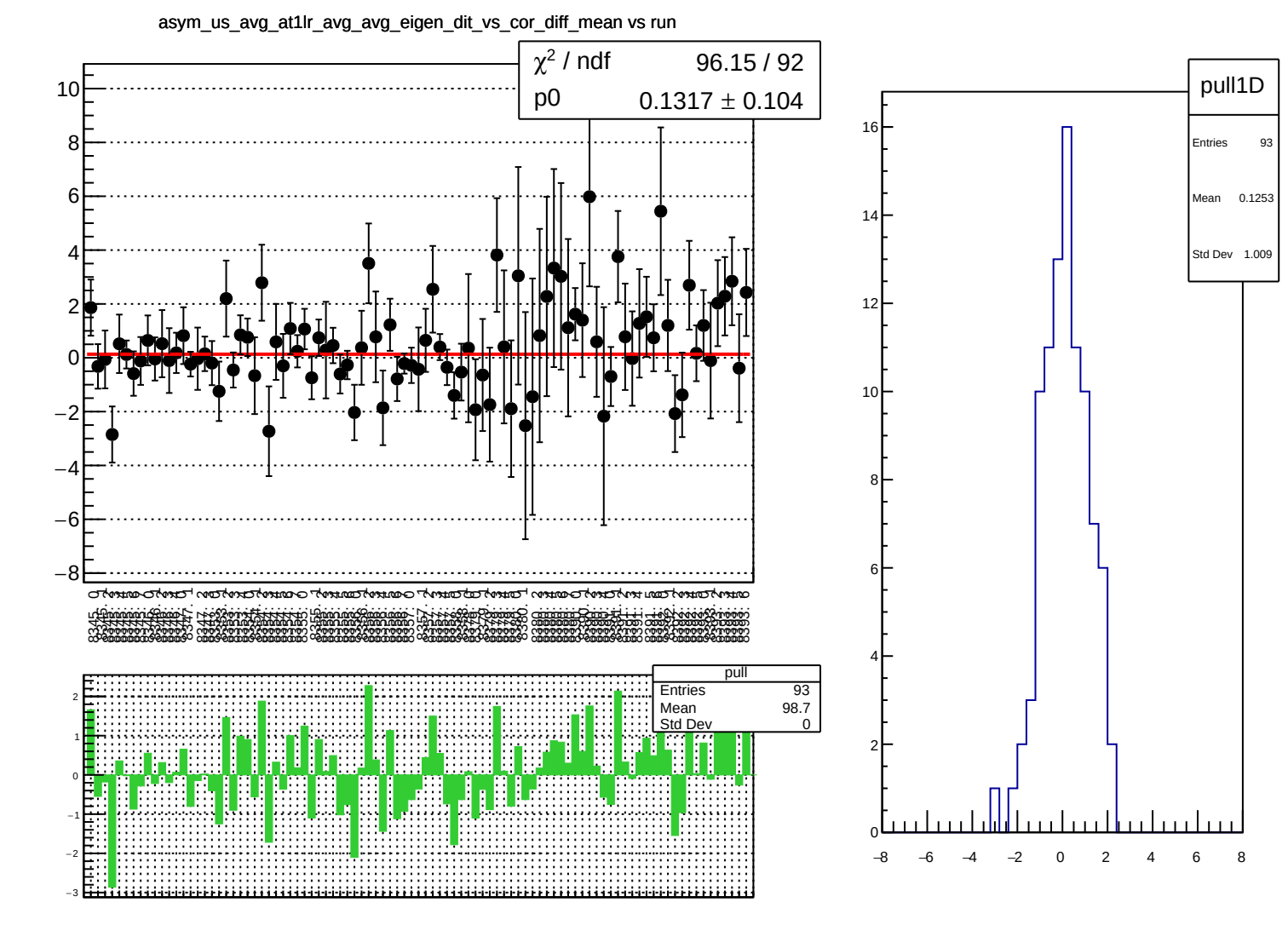

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.15 / 92
p0 0.1317 ± 0.104
pull
Entries 93
Mean 98.7
Std Dev 0
pull1D
Entries 93
Mean 0.1253
Std Dev 1.009

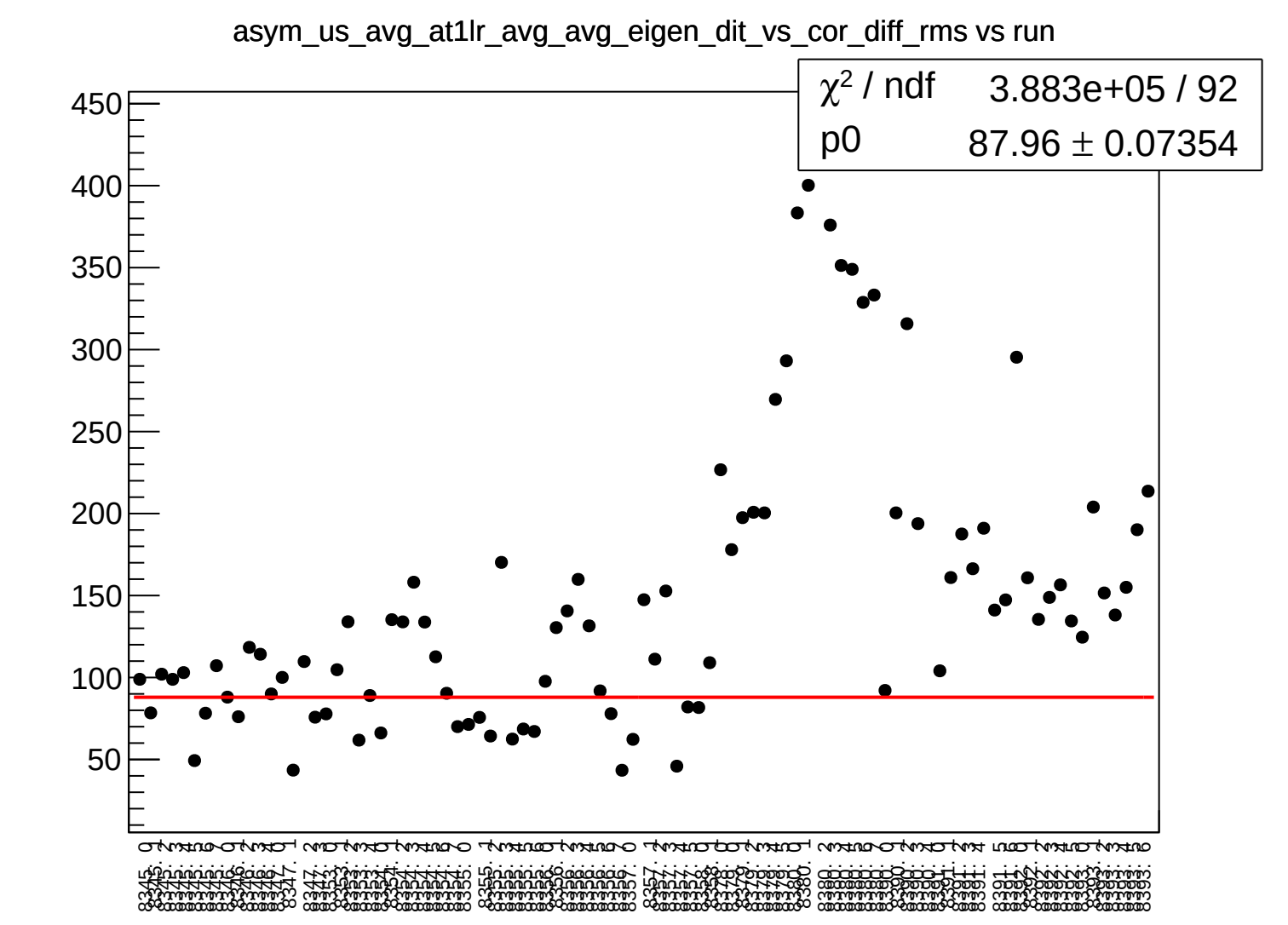

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.883e+05 / 92
p0 87.96 ± 0.07353
450
400
350
300
250
200
150
100
50

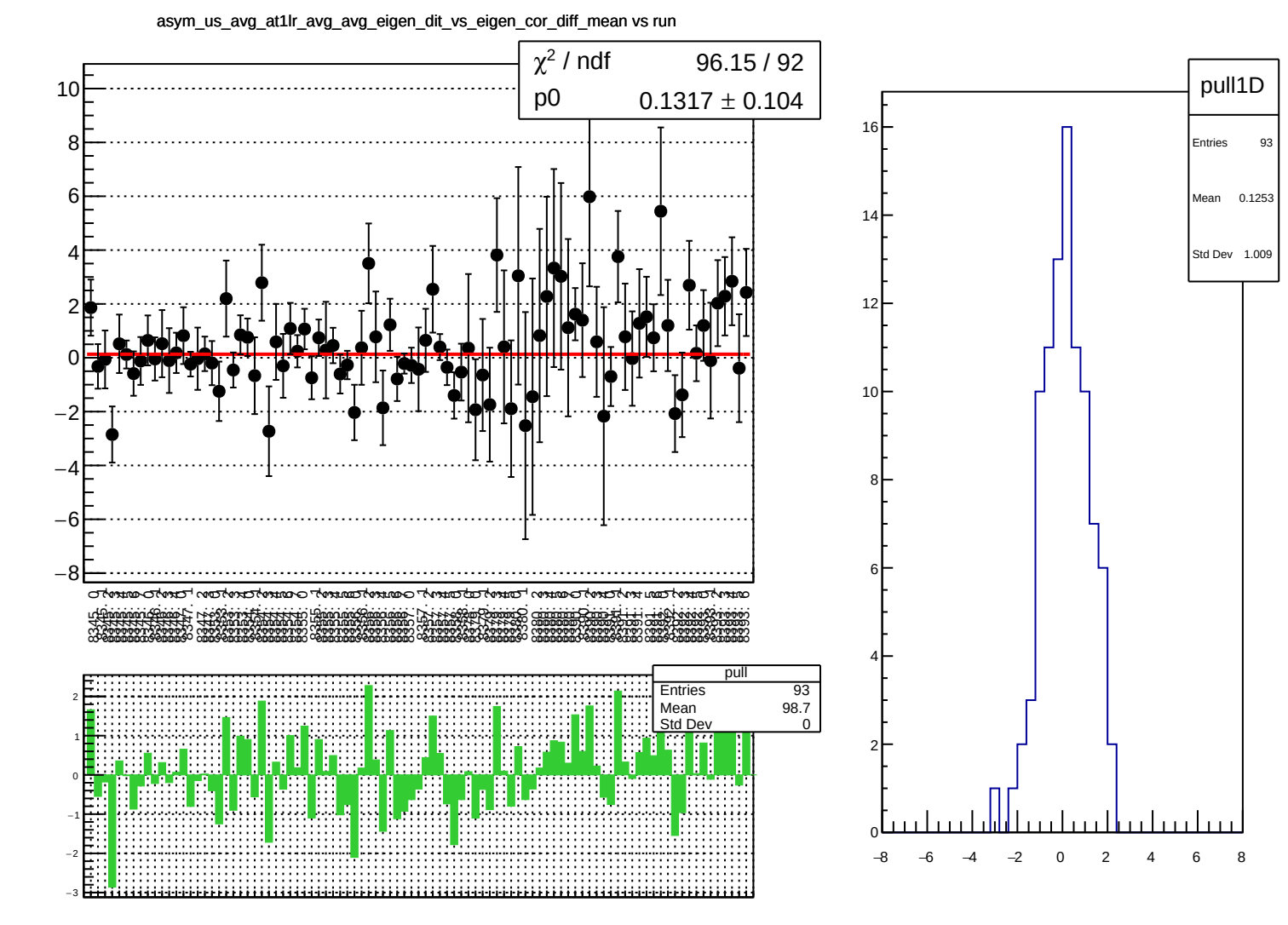

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.47 / 92
p0 1.674e−05 ± 6.643e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 93
Mean −72.91
Std Dev 0
3
2
1
0
−1
−2

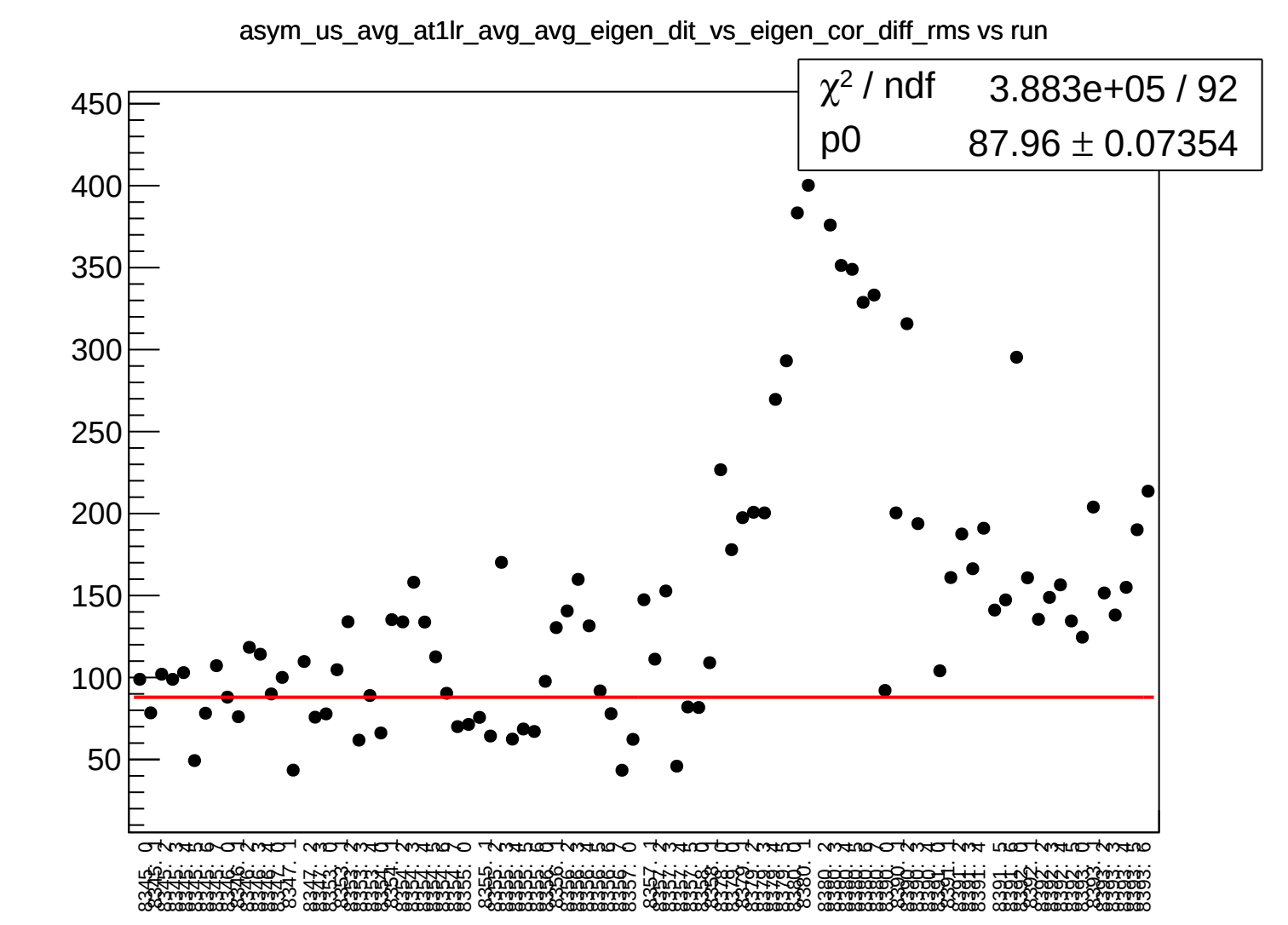

pull1D
Entries 93
Mean −0.0444
Std Dev 1.023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

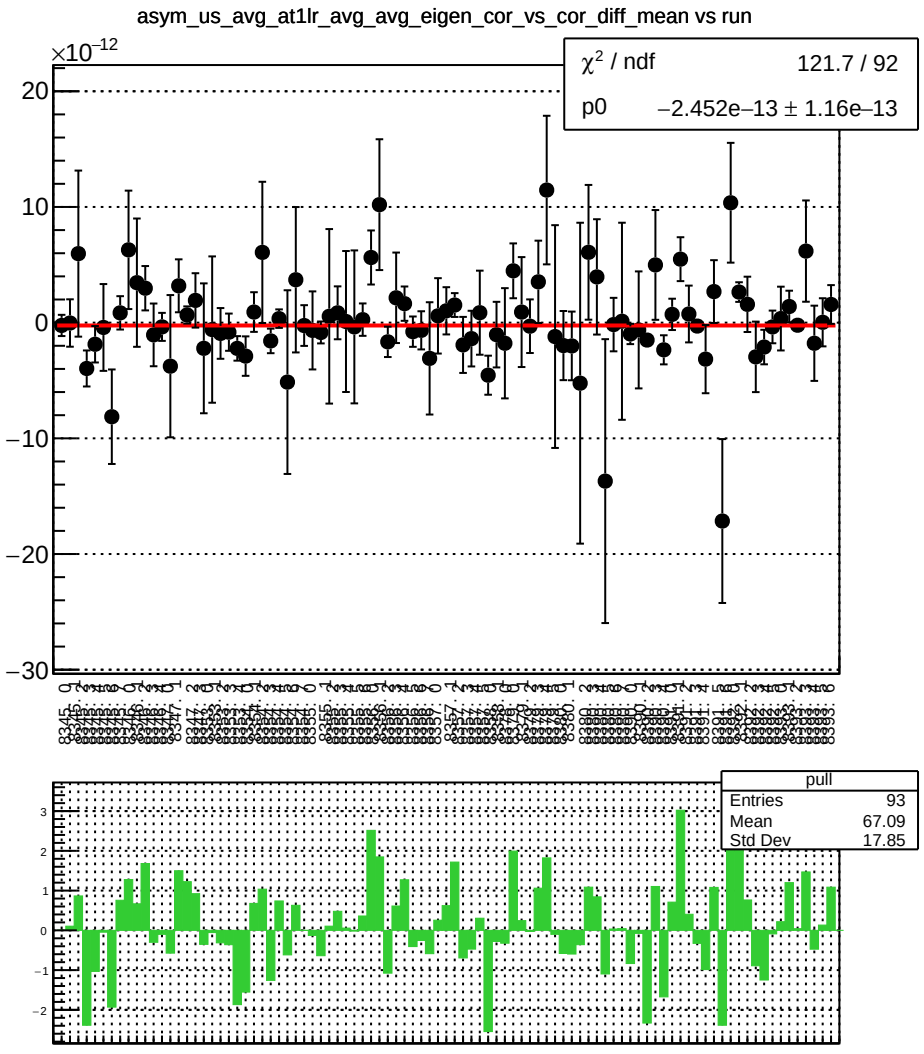

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.773e+04 / 92
p0 0.006162 ± 4.697e−06
0.014
0.012
0.01
0.008
0.006
0.004

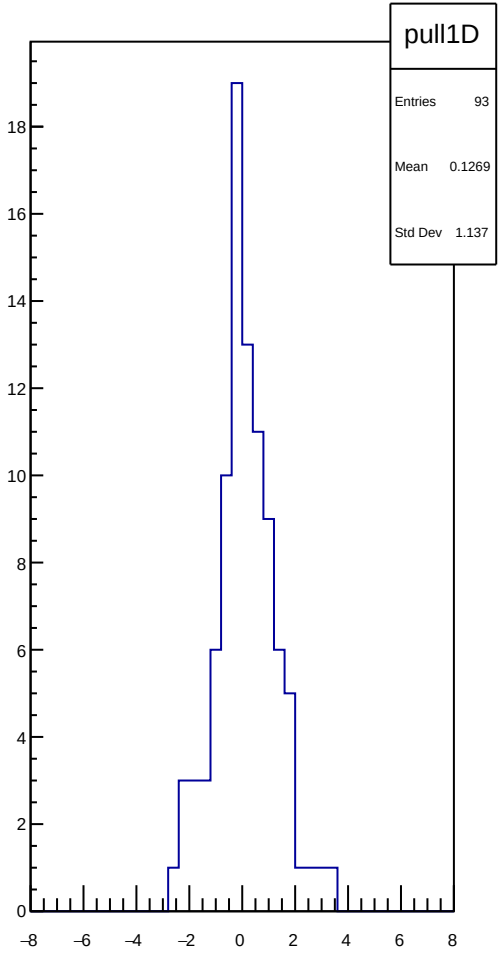

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 96.15 / 92
p0 0.1317 ± 0.104
pull
Entries 93
Mean 98.7
Std Dev 0
pull1D
Entries 93
Mean 0.1253
Std Dev 1.009

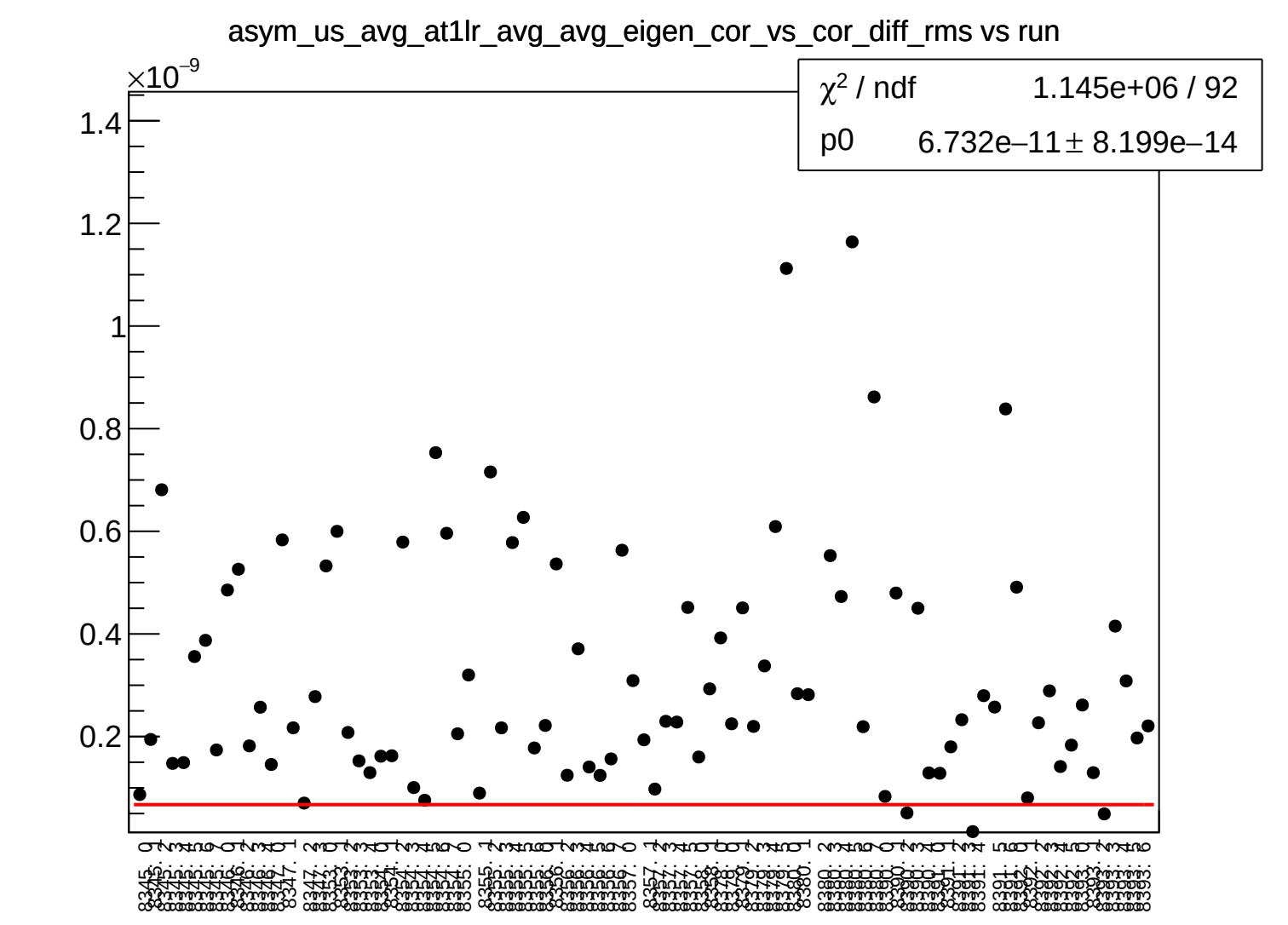

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.883e+05 / 92
p0 87.96 ± 0.07354
450
400
350
300
250
200
150
100
50

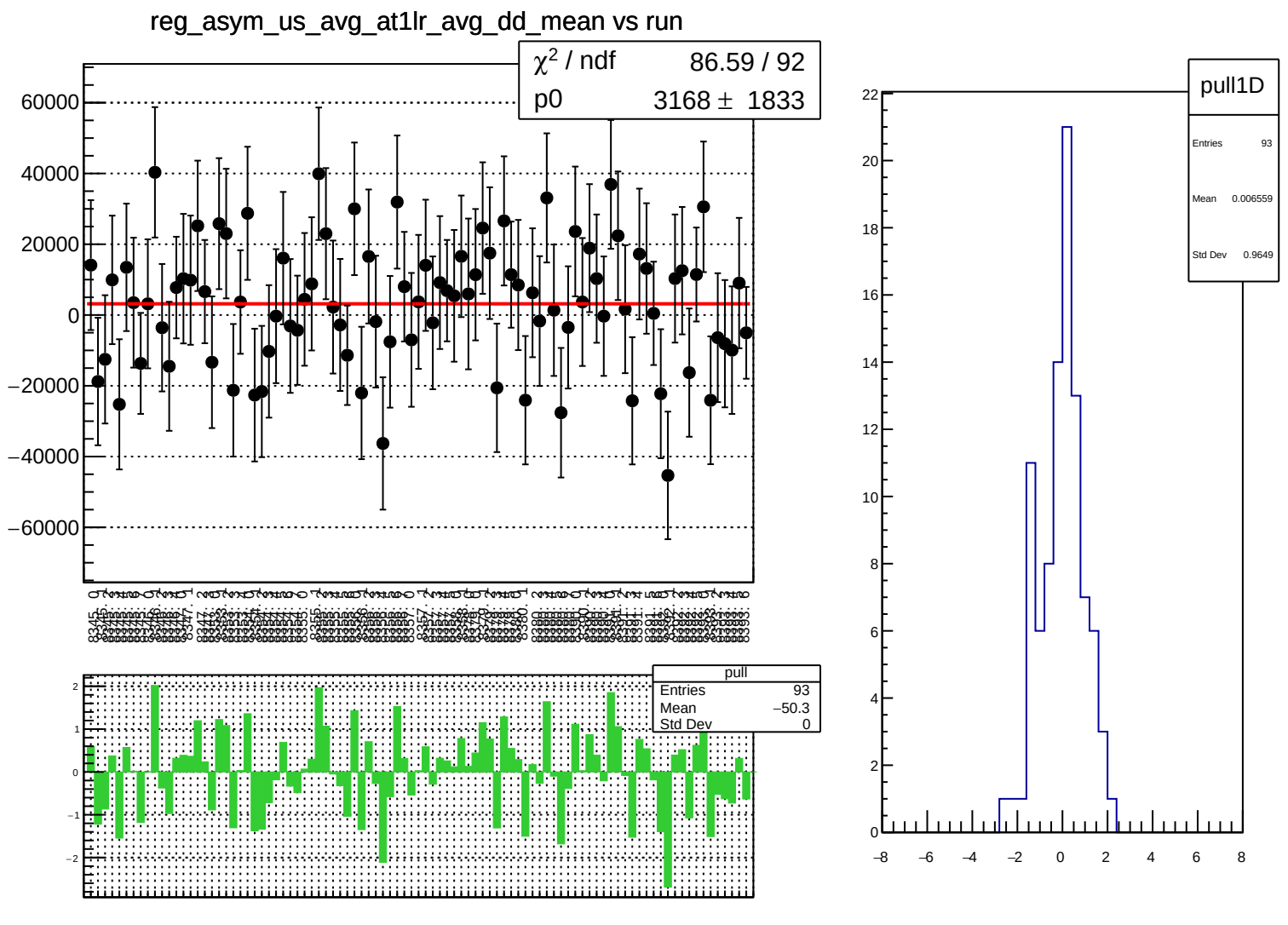

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.15 / 92
p0 0.1317 ± 0.104
pull
Entries 93
Mean 98.7
Std Dev 0
pull1D
Entries 93
Mean 0.1253
Std Dev 1.009

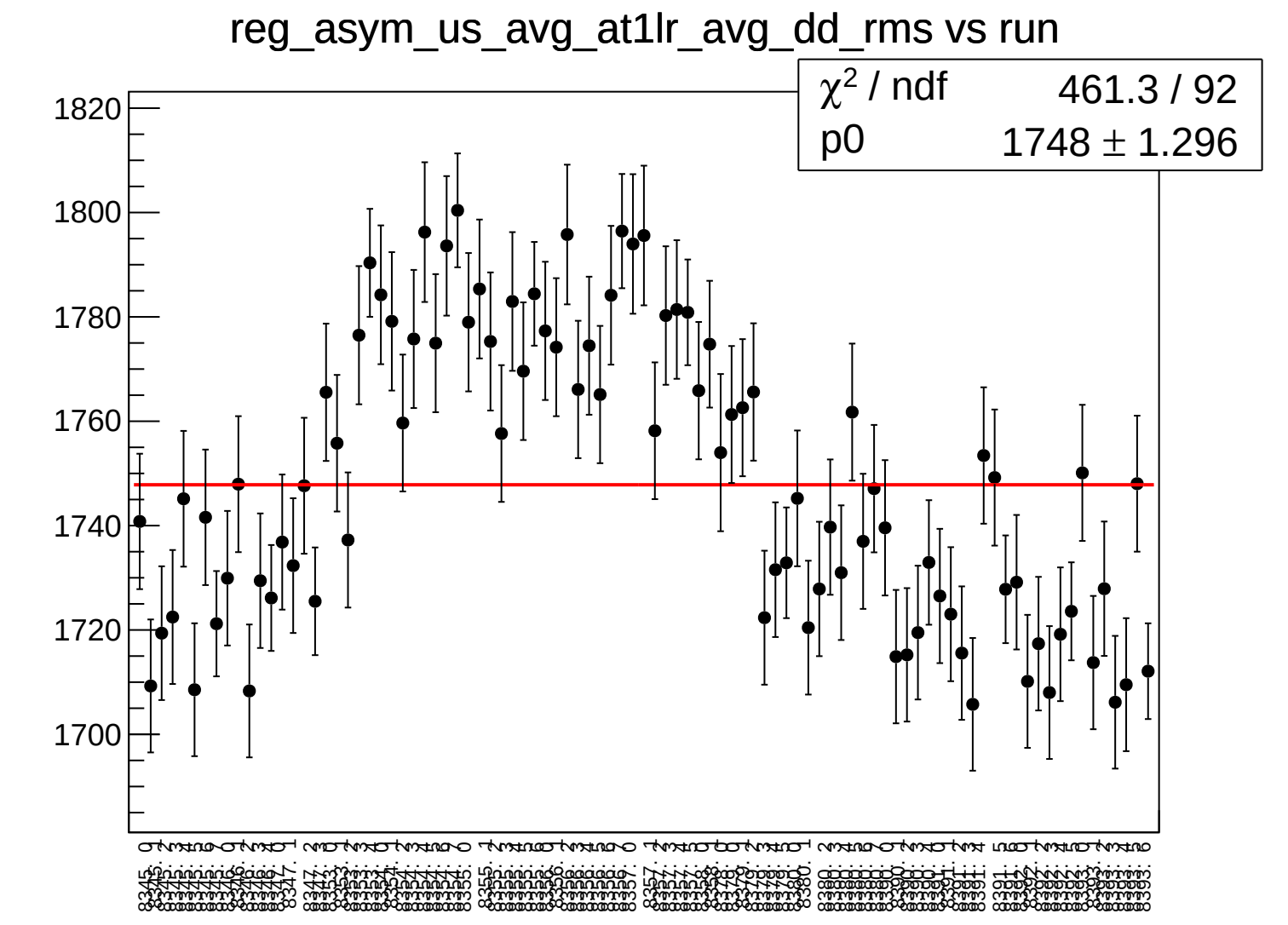

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.883e+05 / 92
p0 87.96 ± 0.07354
450
400
350
300
250
200
150
100
50

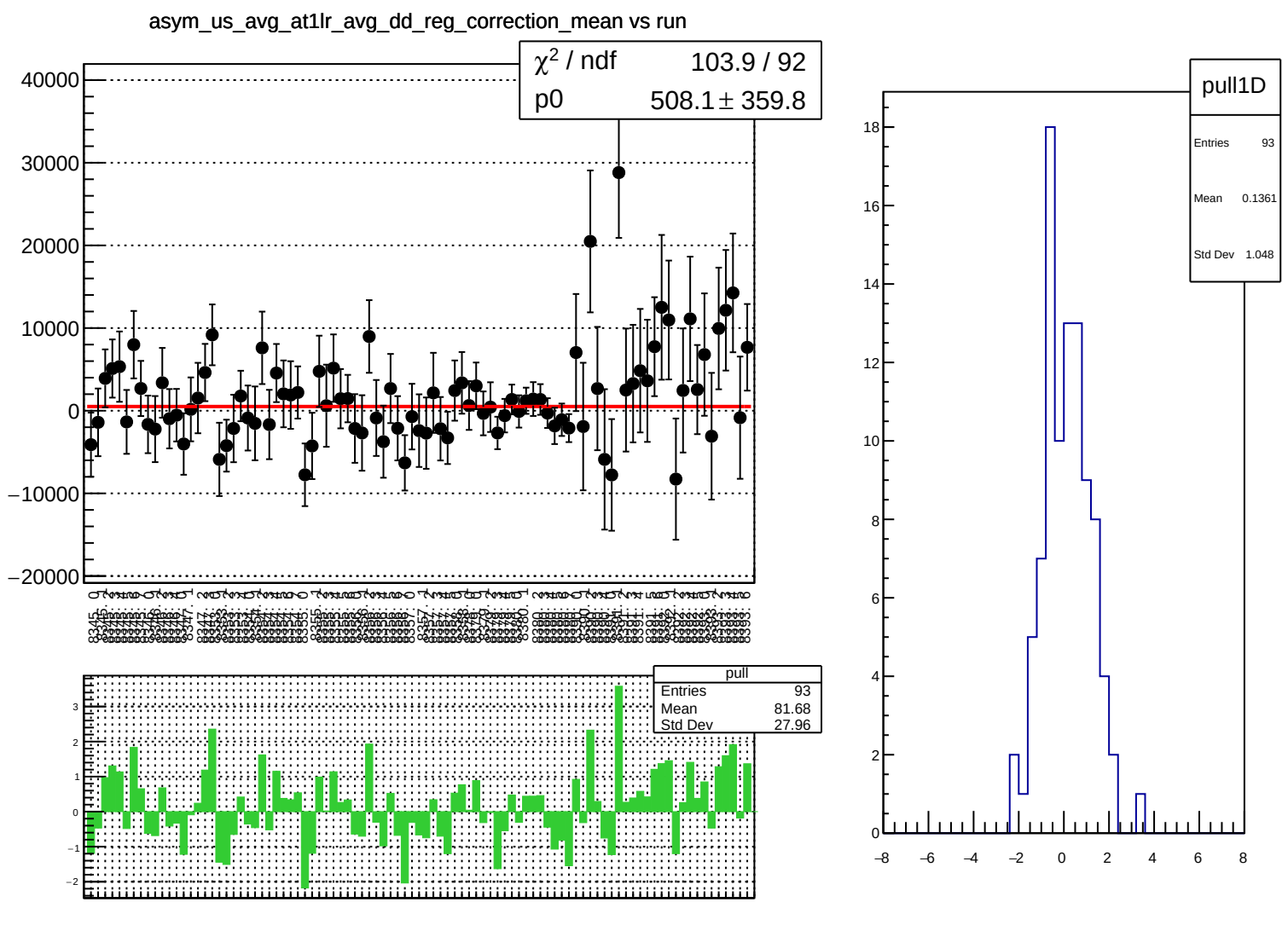

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 121.7 / 92
p0 −2.452e−13 ± 1.16e−13
pull
Entries 93
Mean 67.09
Std Dev 17.85

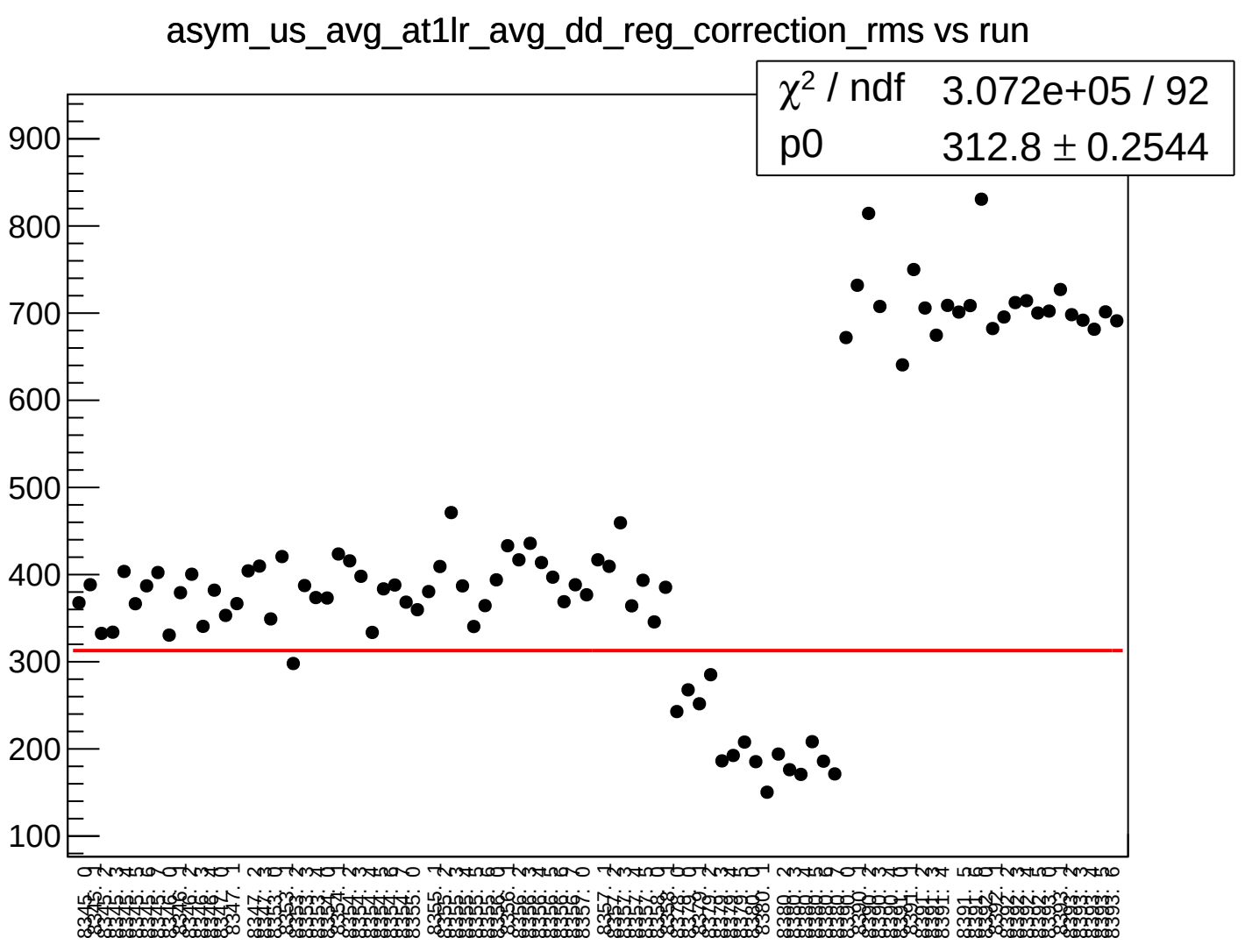

pull1D
Entries 93
Mean 0.1269
Std Dev 1.137

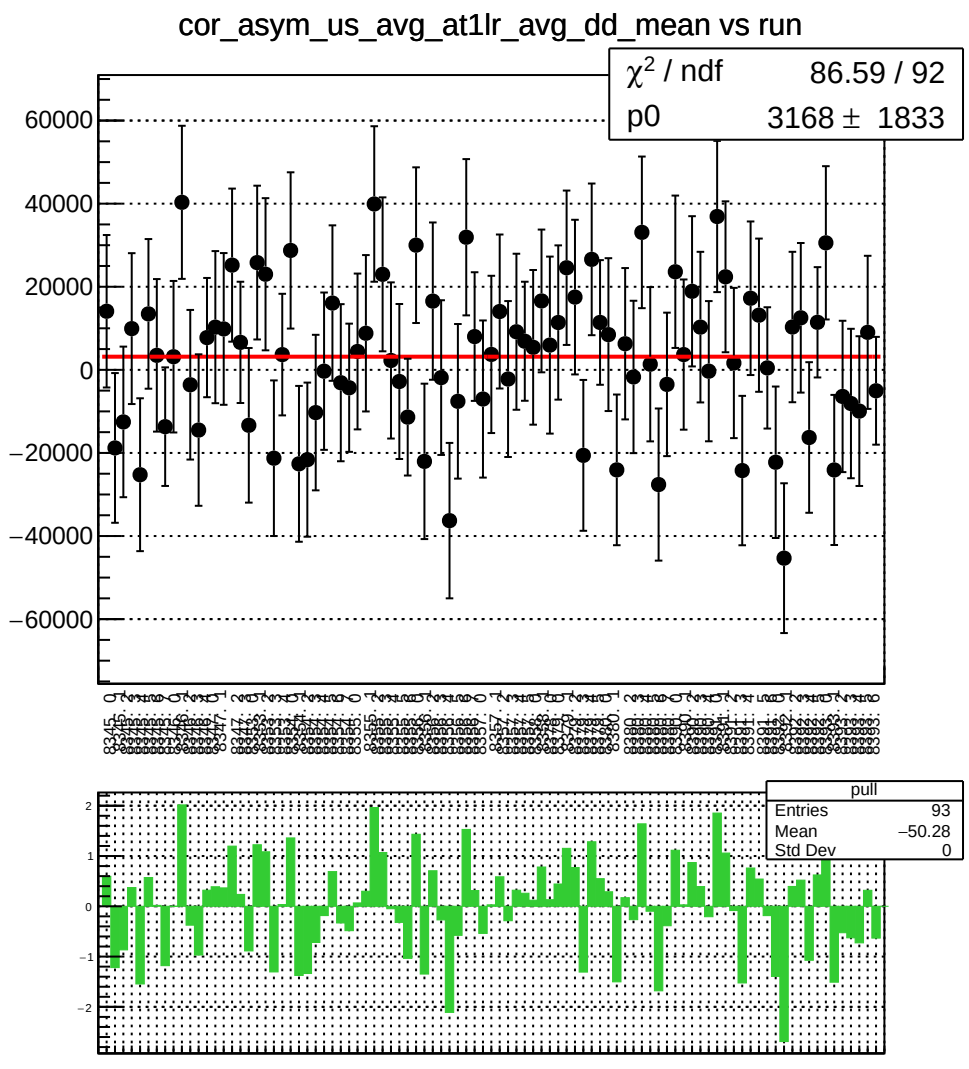

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.145e+06 / 92
p0 6.732e−11 ± 8.199e−14
1.4
1.2
1
0.8
0.6
0.4
0.2

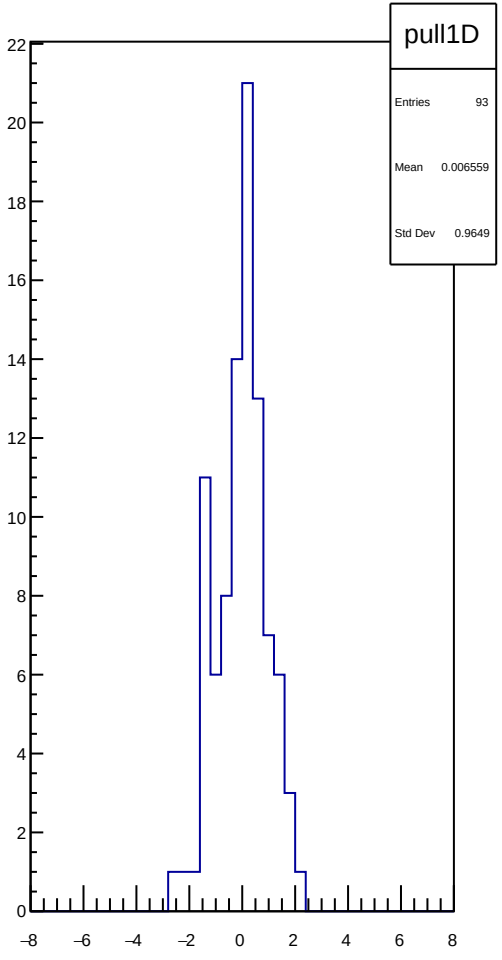

reg_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 86.59 / 92
p0 3168 ± 1833
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −50.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.006559
Std Dev 0.9649
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

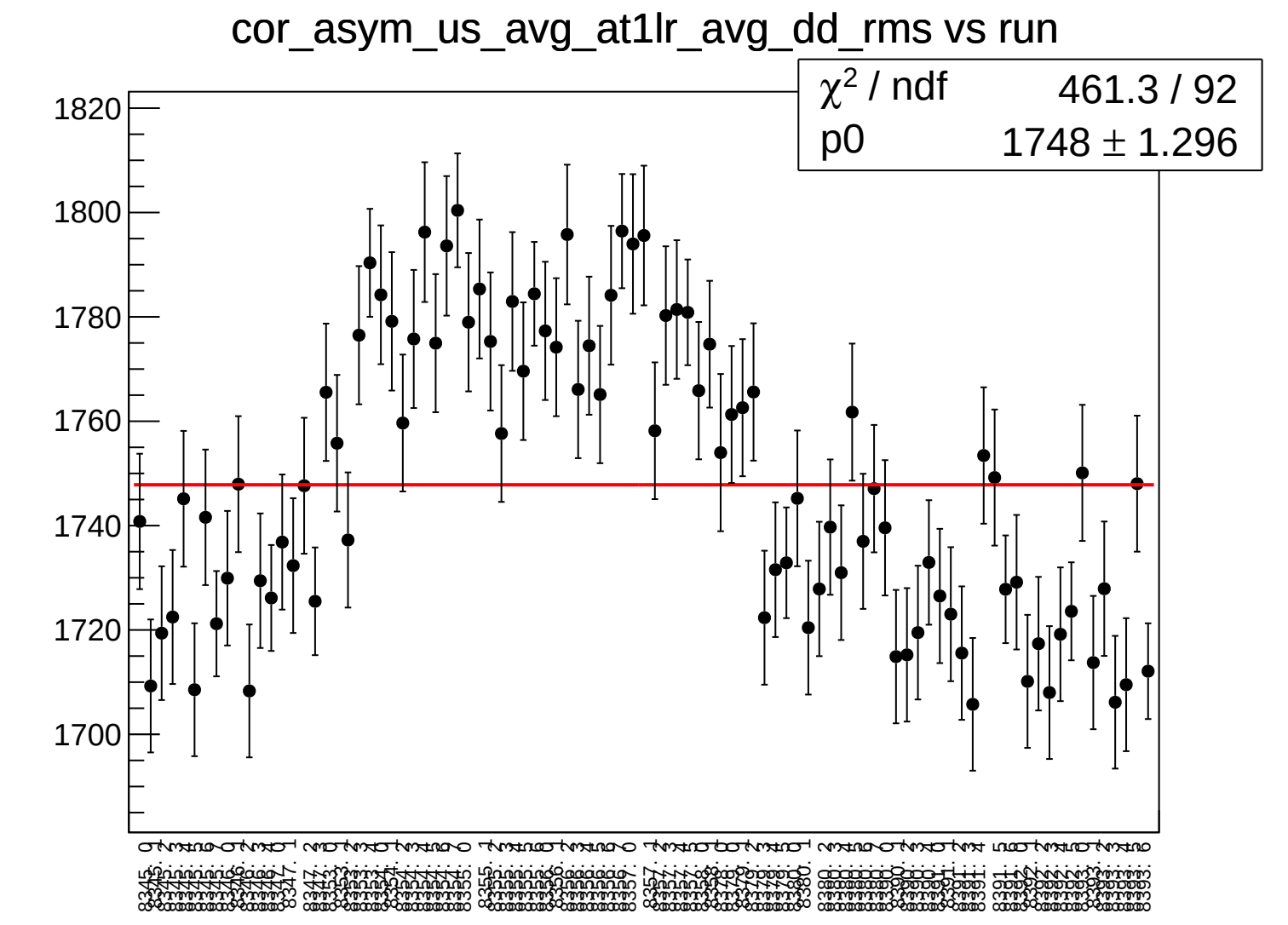

reg_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 461.3 / 92
p0 1748 ± 1.296
1820
1800
1780
1760
1740
1720
1700

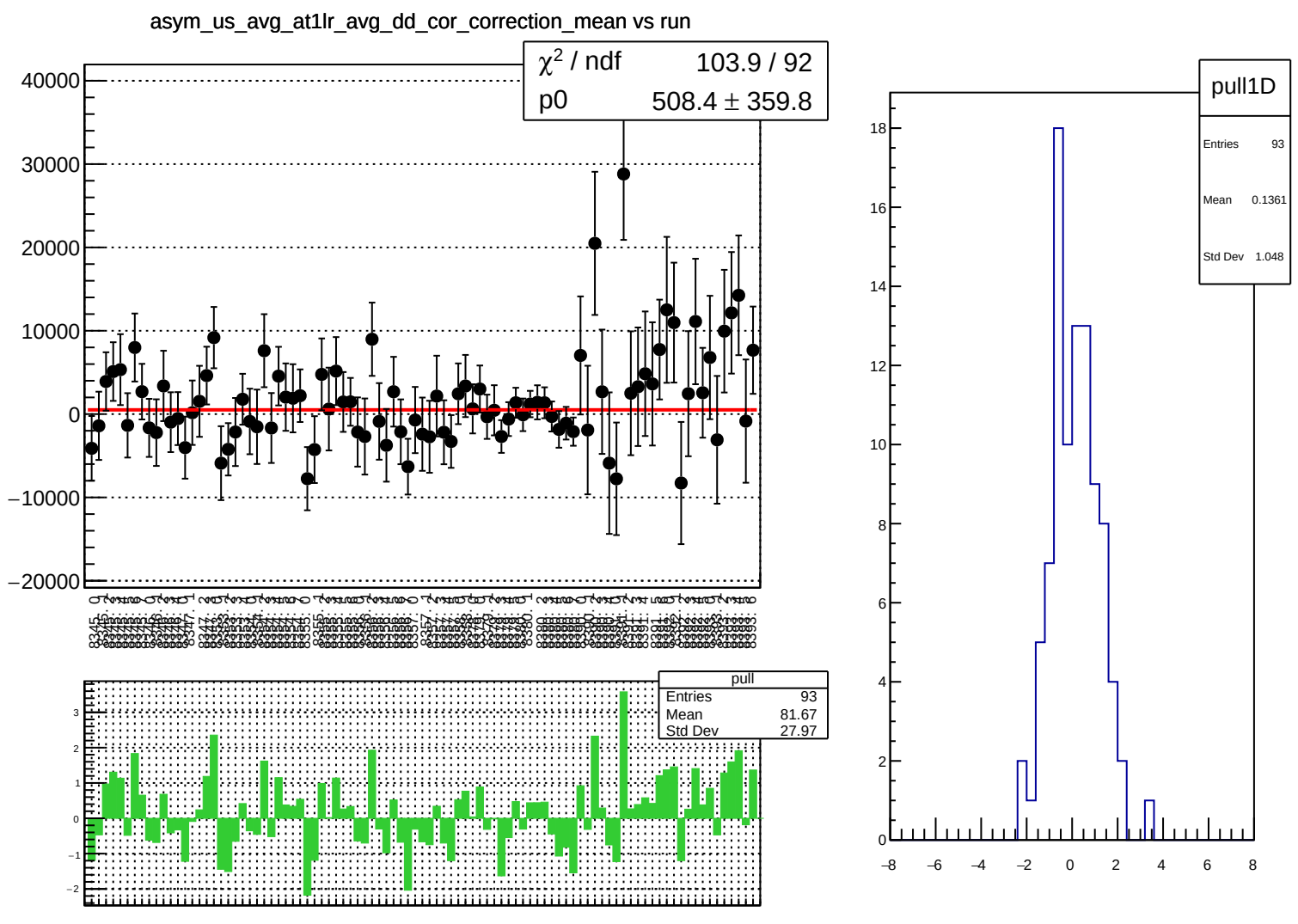

asym_us_avg_at1lr_avg_dd_reg_correction_mean vs run
χ² / ndf 103.9 / 92
p0 508.1 ± 359.8
pull
Entries 93
Mean 81.68
Std Dev 27.96
pull1D
Entries 93
Mean 0.1361
Std Dev 1.048

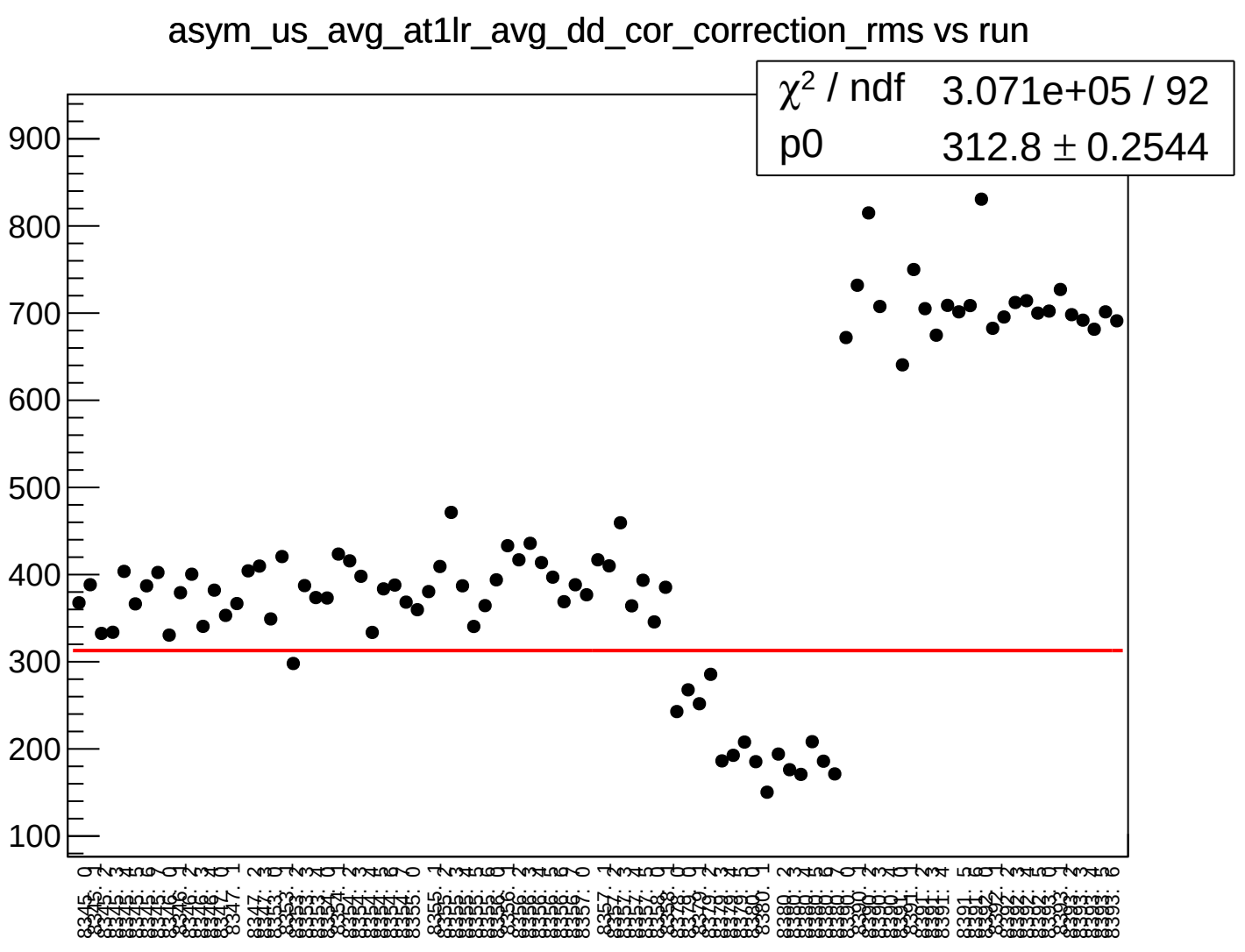

asym_us_avg_at1lr_avg_dd_reg_correction_rms vs run
χ² / ndf 3.072e+05 / 92
p0 312.8 ± 0.2544
900
800
700
600
500
400
300
200
100

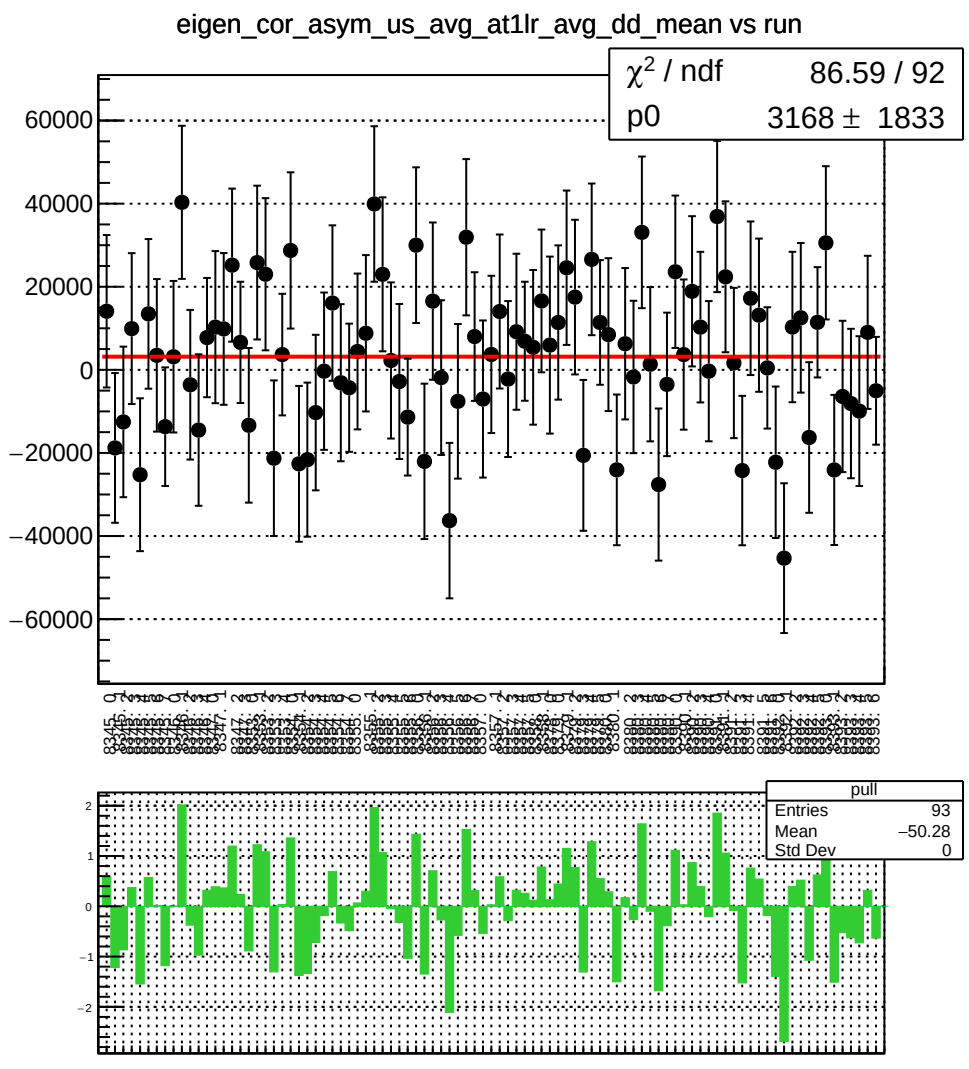

cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 86.59 / 92
p0 3168 ± 1833
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −50.28
Std Dev 0
2
1
0
−1
−2

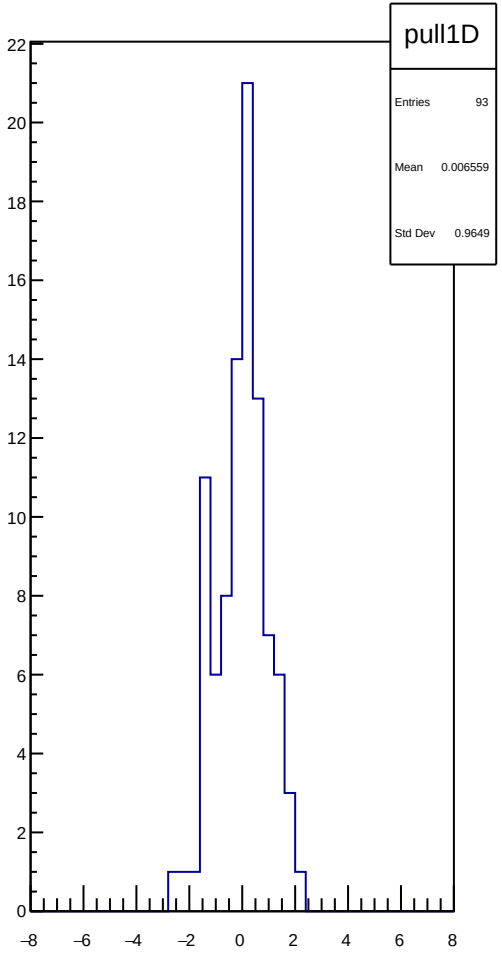

pull1D
Entries 93
Mean 0.006559
Std Dev 0.9649
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

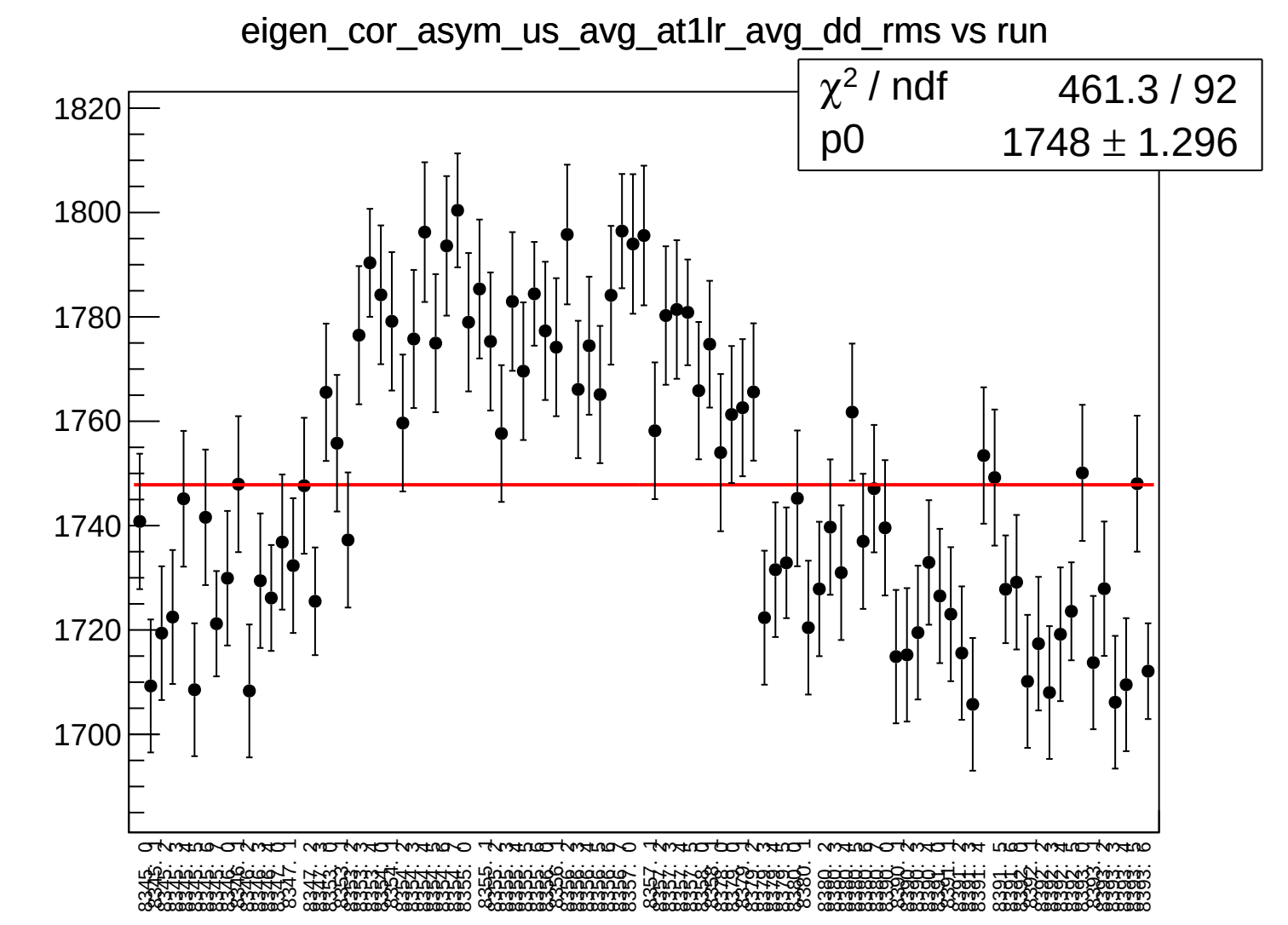

cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 461.3 / 92
p0 1748 ± 1.296
1820
1800
1780
1760
1740
1720
1700

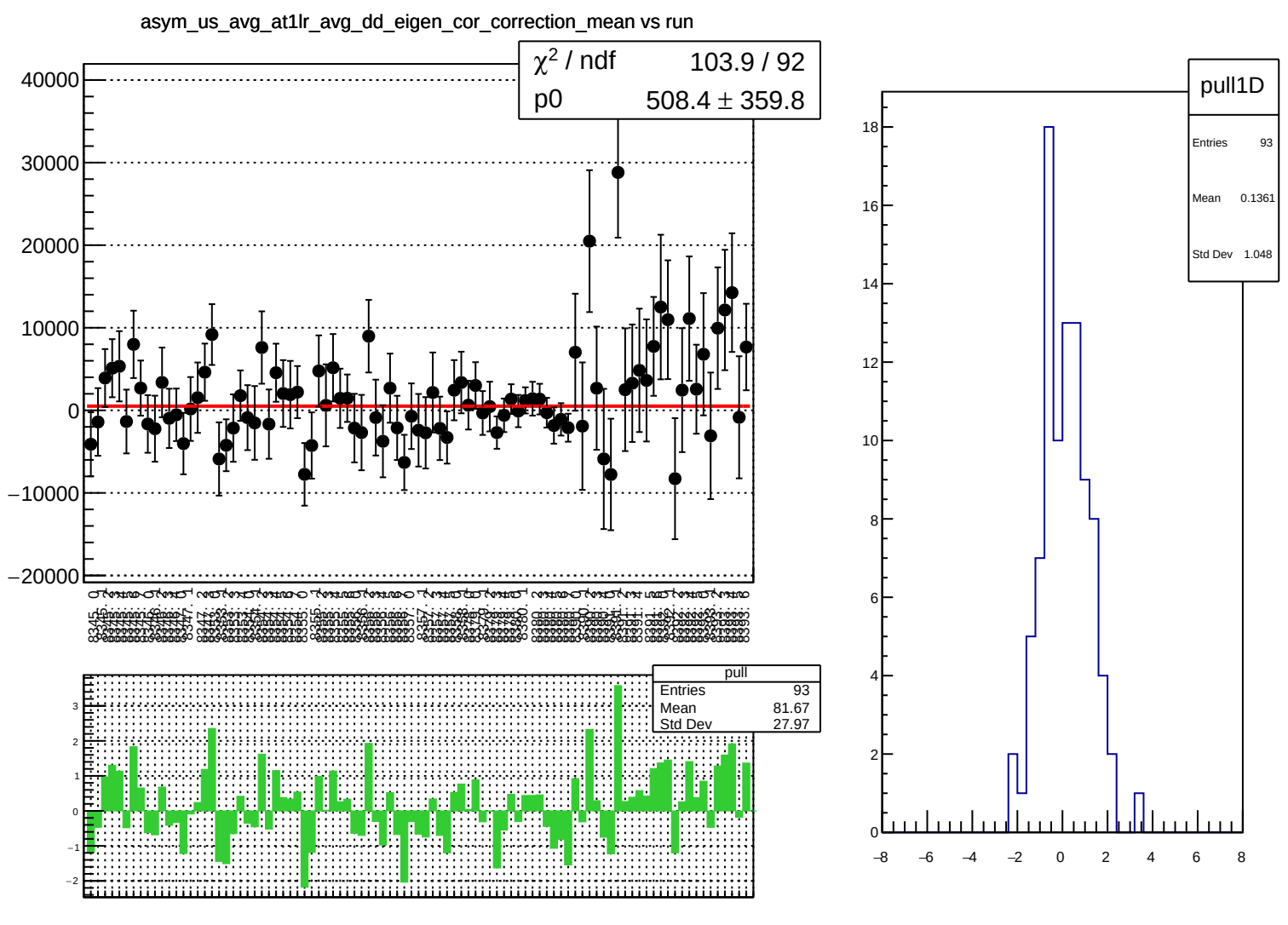

asym_us_avg_at1lr_avg_dd_cor_correction_mean vs run
χ² / ndf 103.9 / 92
p0 508.4 ± 359.8
pull
Entries 93
Mean 81.67
Std Dev 27.97
pull1D
Entries 93
Mean 0.1361
Std Dev 1.048

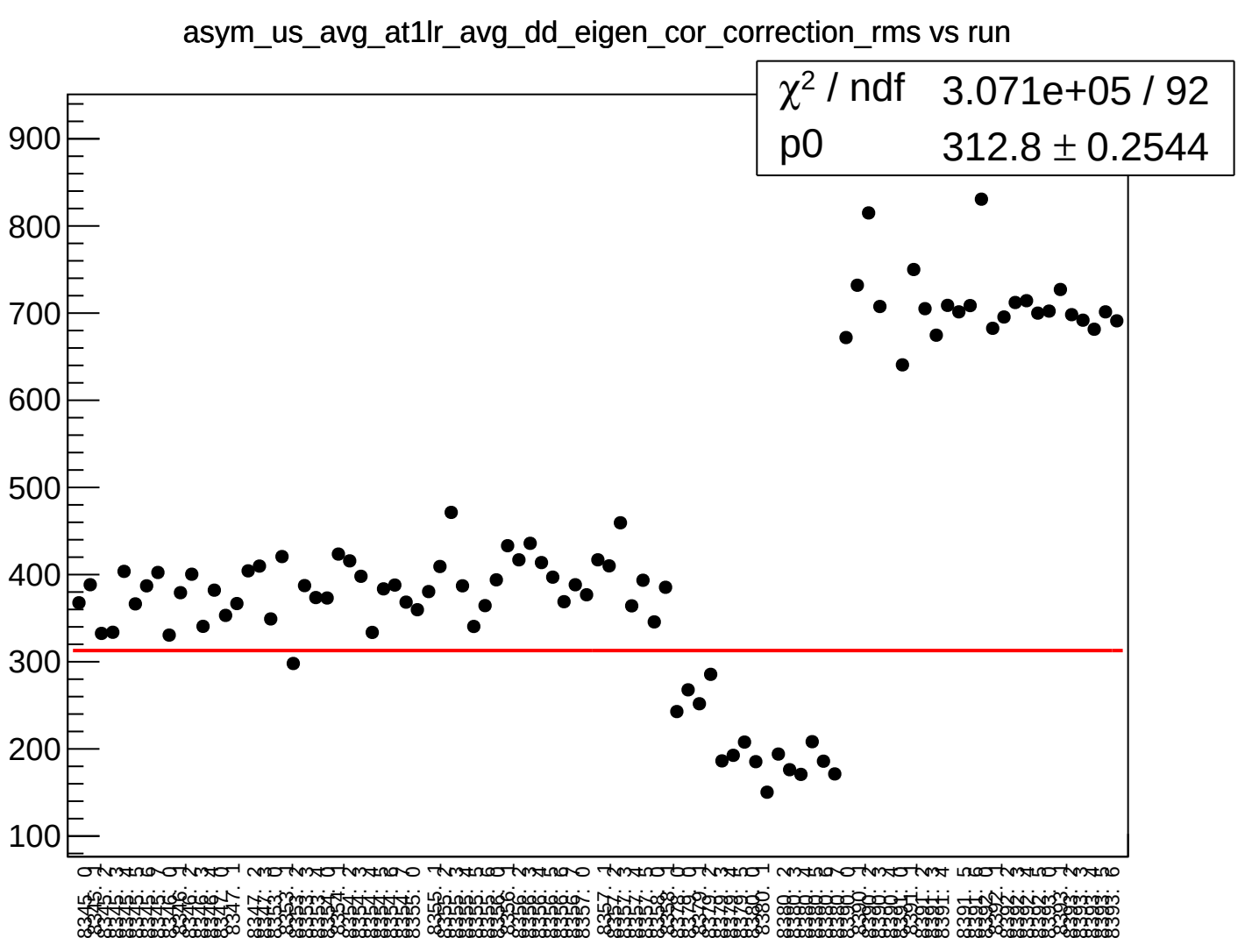

asym_us_avg_at1lr_avg_dd_cor_correction_rms vs run
χ² / ndf 3.071e+05 / 92
p0 312.8 ± 0.2544
900
800
700
600
500
400
300
200
100

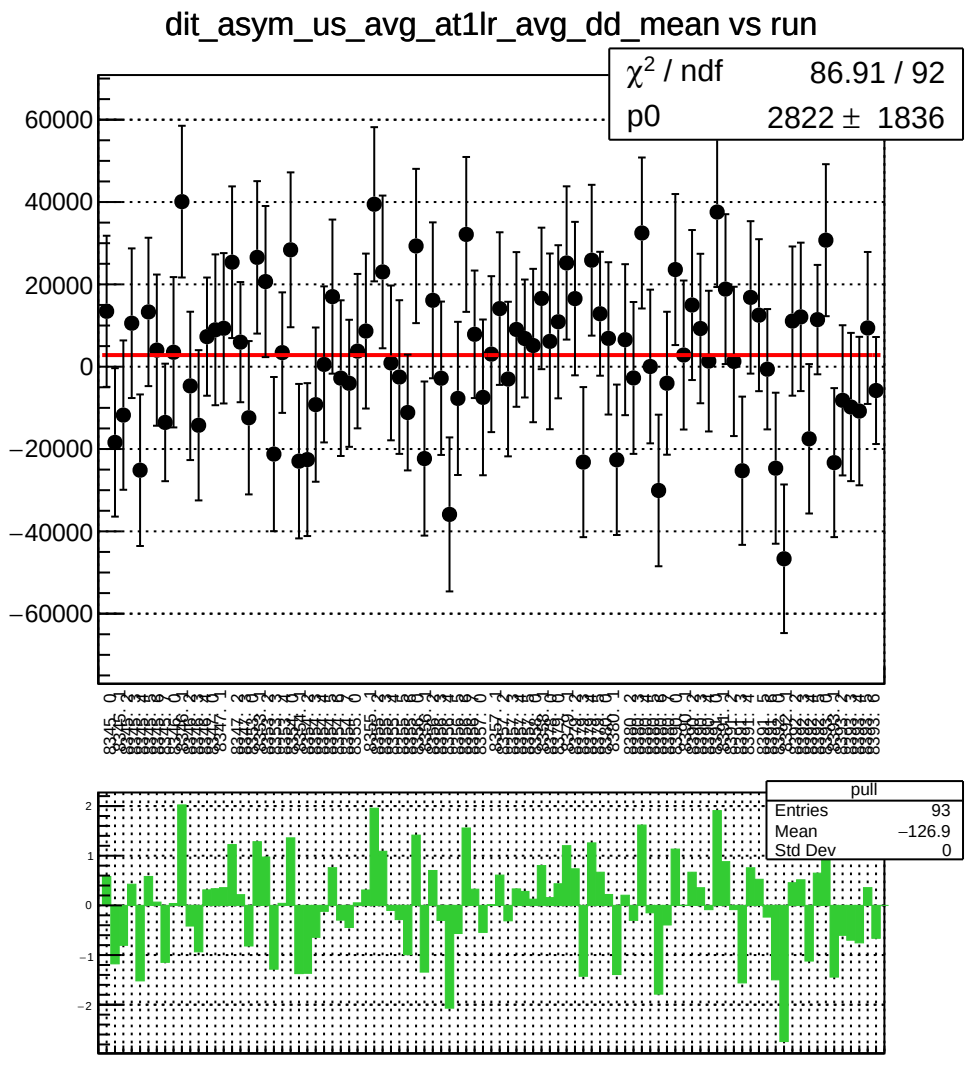

eigen_cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 86.59 / 92
p0 3168 ± 1833
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −50.28
Std Dev 0
2
1
0
−1
−2

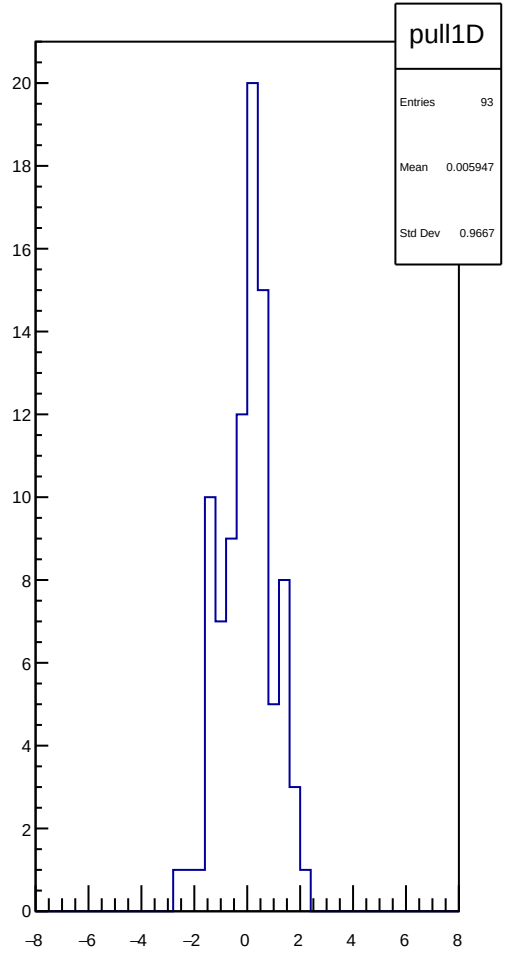

pull1D
Entries 93
Mean 0.006559
Std Dev 0.9649
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

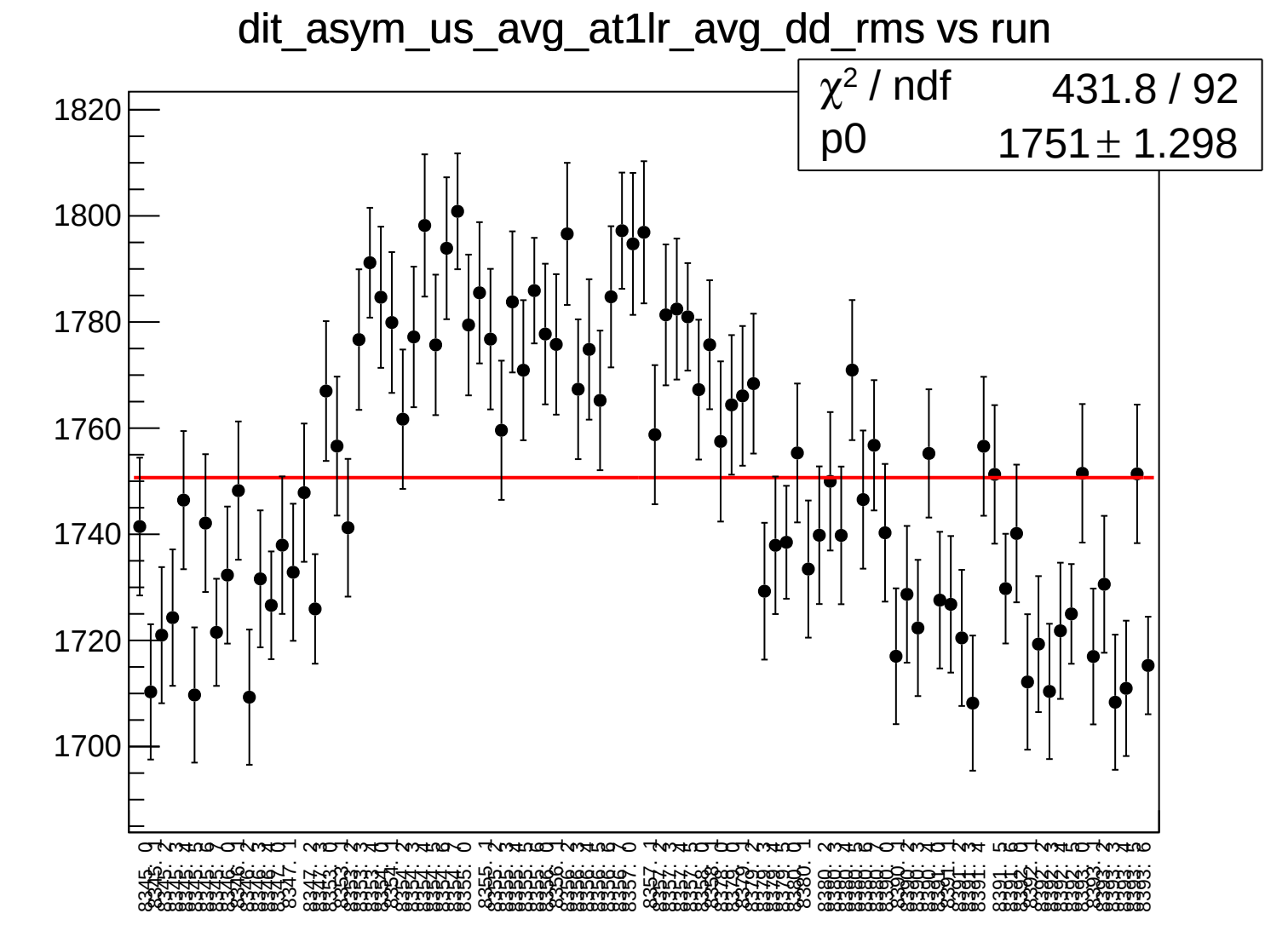

eigen_cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 461.3 / 92
p0 1748 ± 1.296
1820
1800
1780
1760
1740
1720
1700

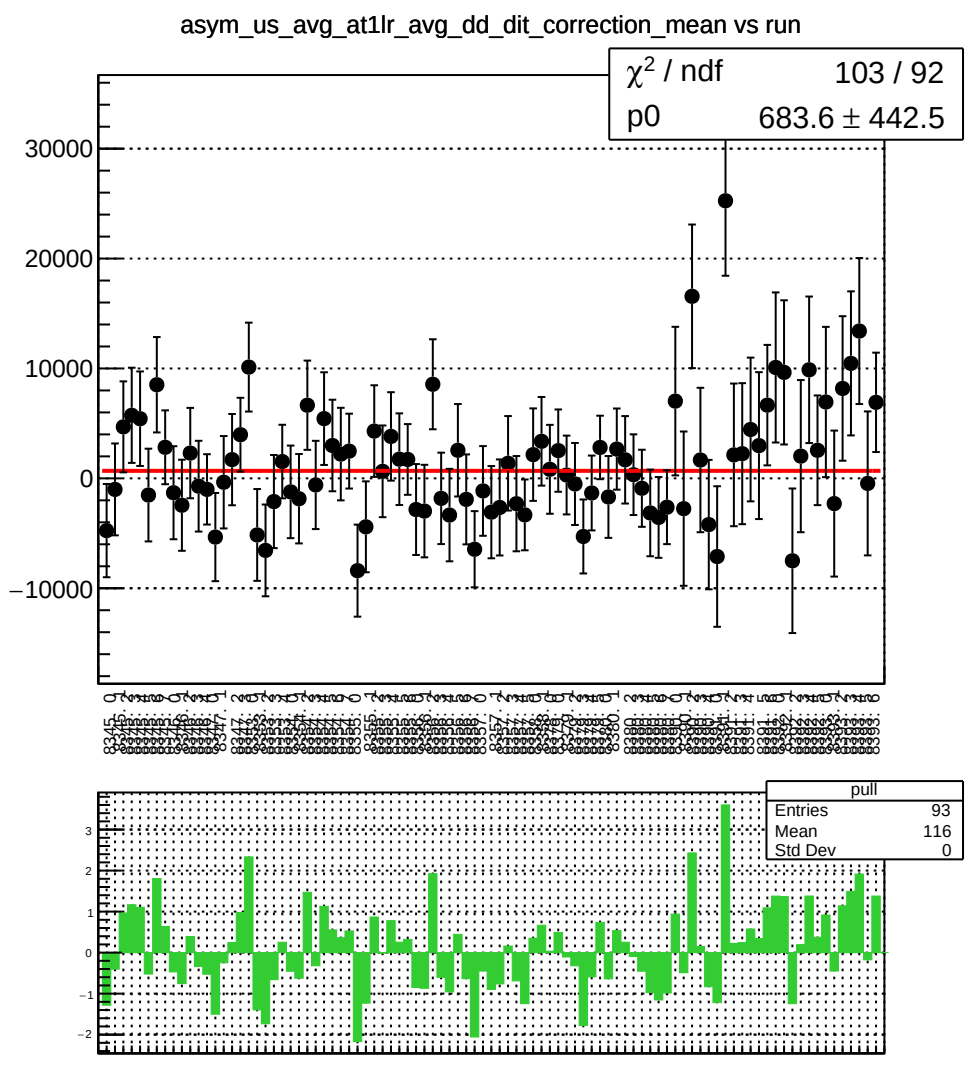

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 103.9 / 92
p0 508.4 ± 359.8
40000
30000
20000
10000
0
−10000
−20000
pull
Entries 93
Mean 81.67
Std Dev 27.97
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.1361
Std Dev 1.048
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

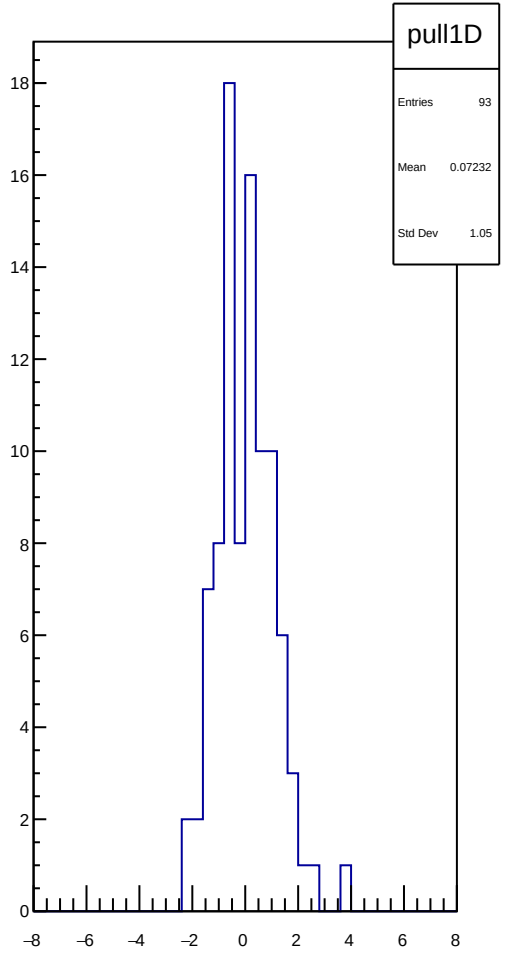

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.071e+05 / 92
p0 312.8 ± 0.2544
900
800
700
600
500
400
300
200
100

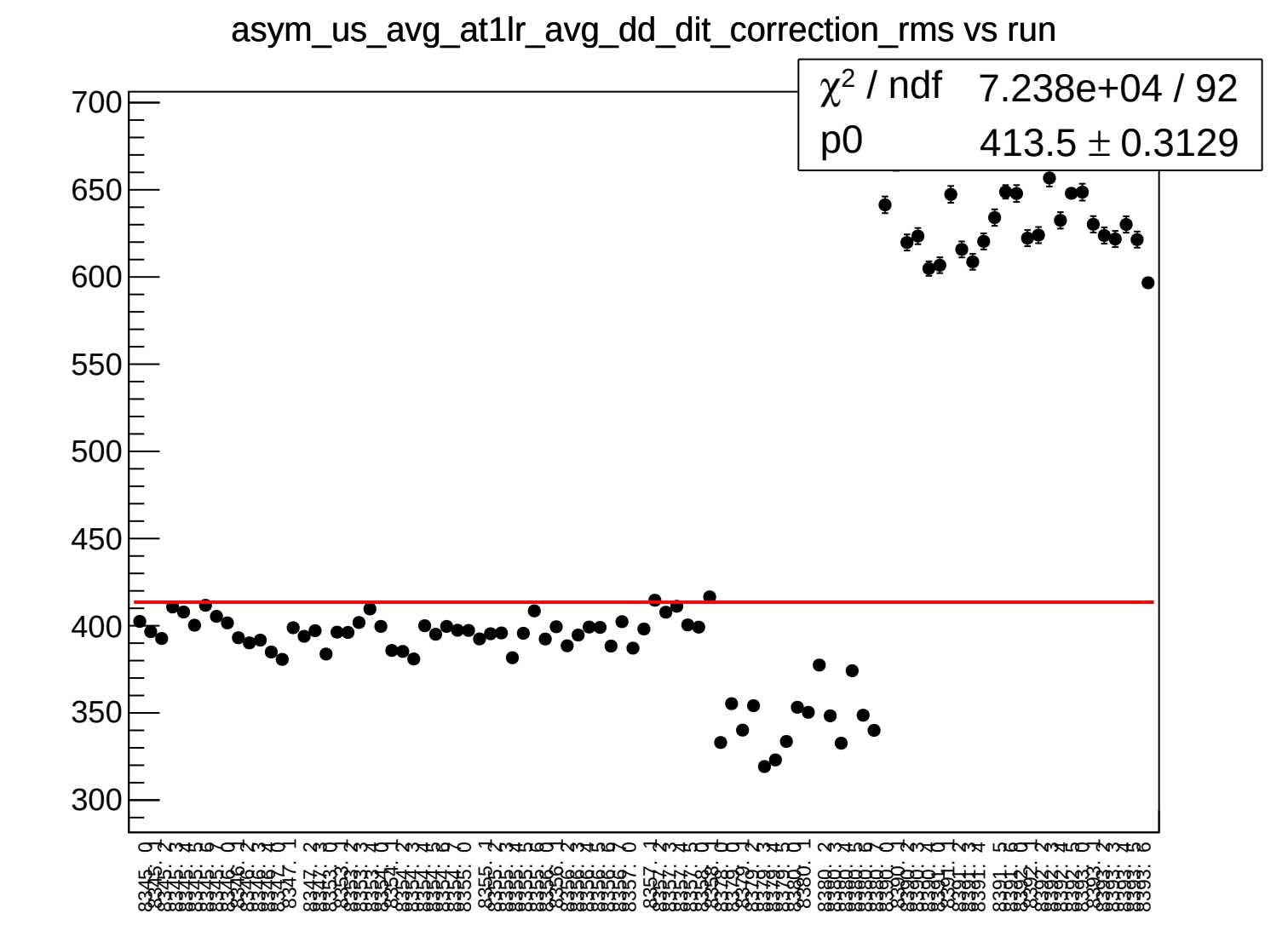

dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 86.91 / 92
p0 2822 ± 1836
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −126.9
Std Dev 0
2
1
0
−1
−2

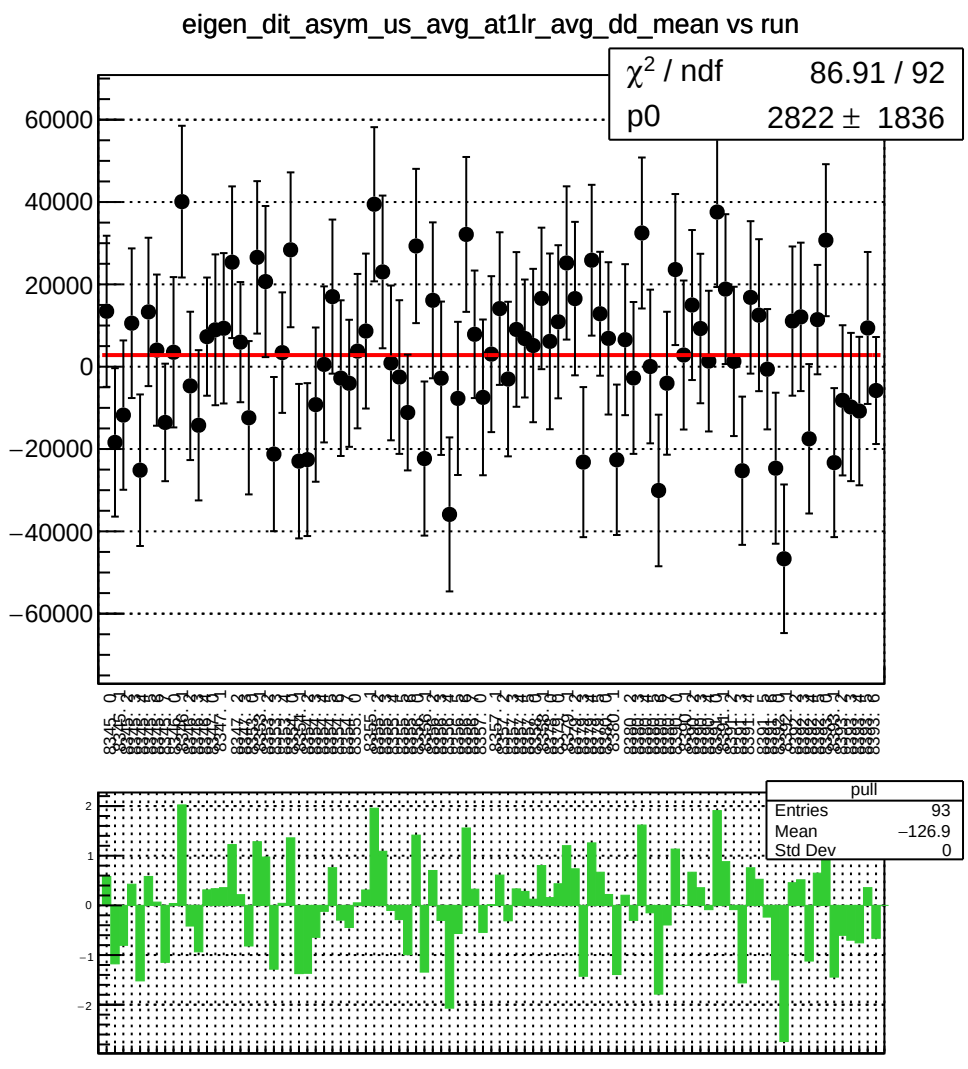

pull1D
Entries 93
Mean 0.005947
Std Dev 0.9667
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

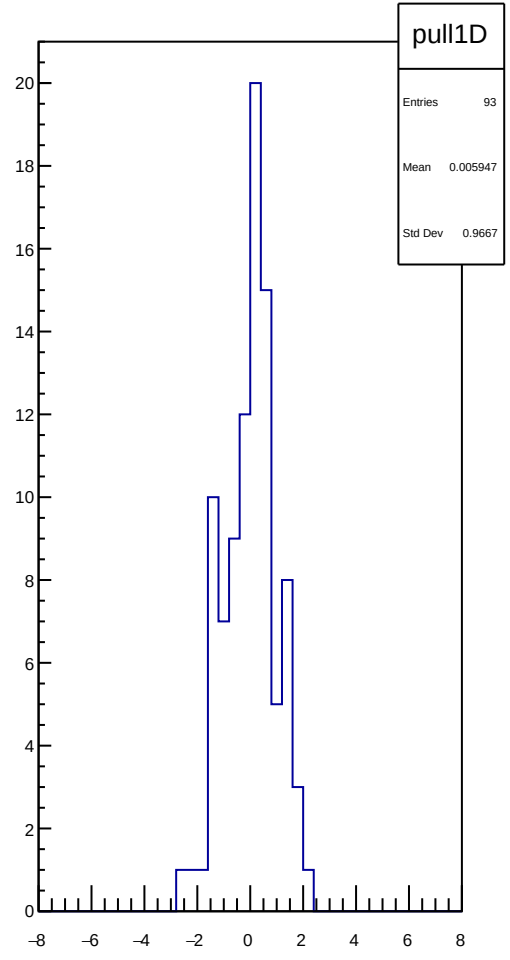

dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 431.8 / 92
p0 1751 ± 1.298
1820
1800
1780
1760
1740
1720
1700

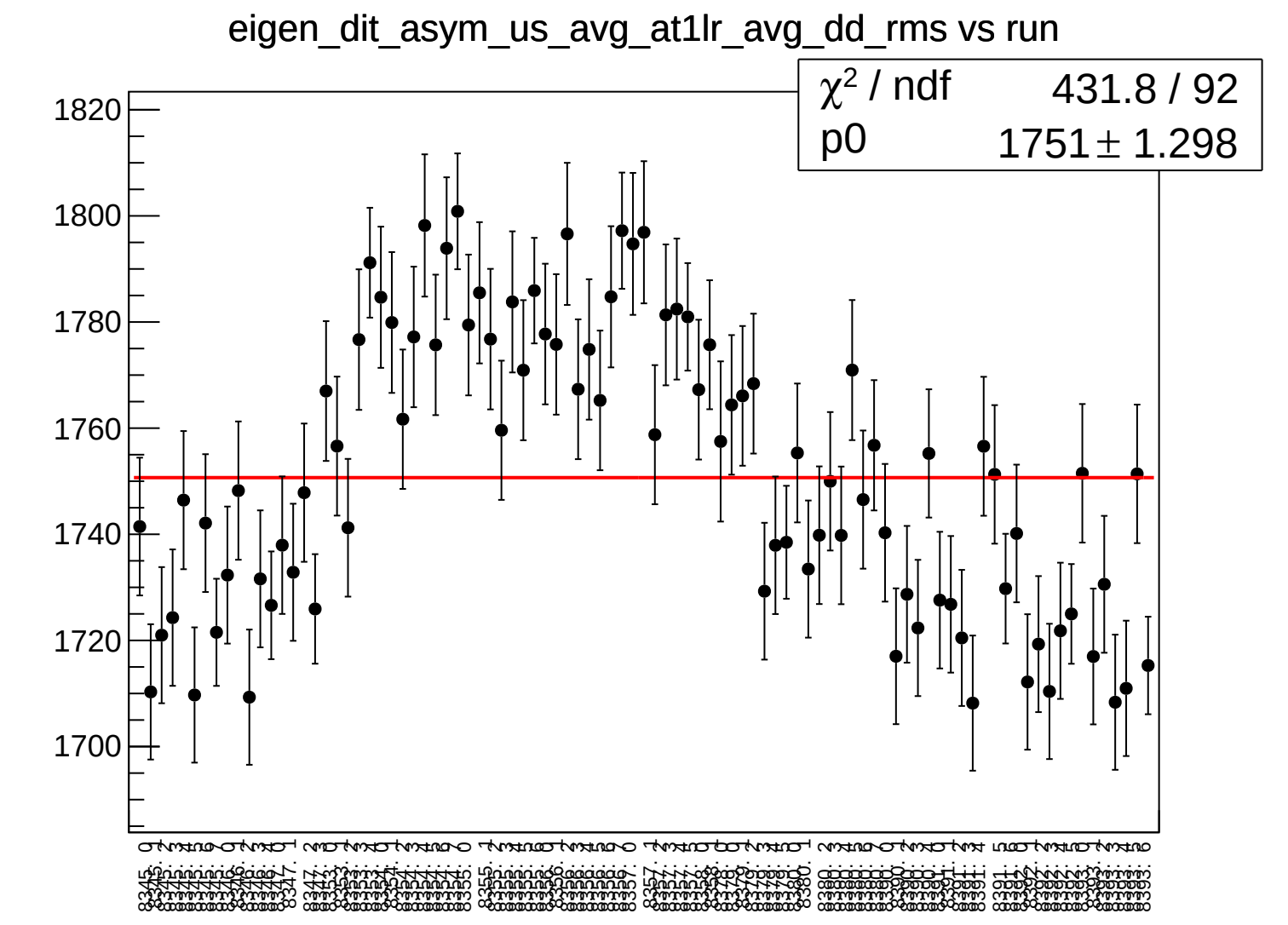

asym_us_avg_at1lr_avg_dd_dit_correction_mean vs run
χ² / ndf 103 / 92
p0 683.6 ± 442.5
30000
20000
10000
0
−10000
pull
Entries 93
Mean 116
Std Dev 0
3
2
1
0
−1
−2

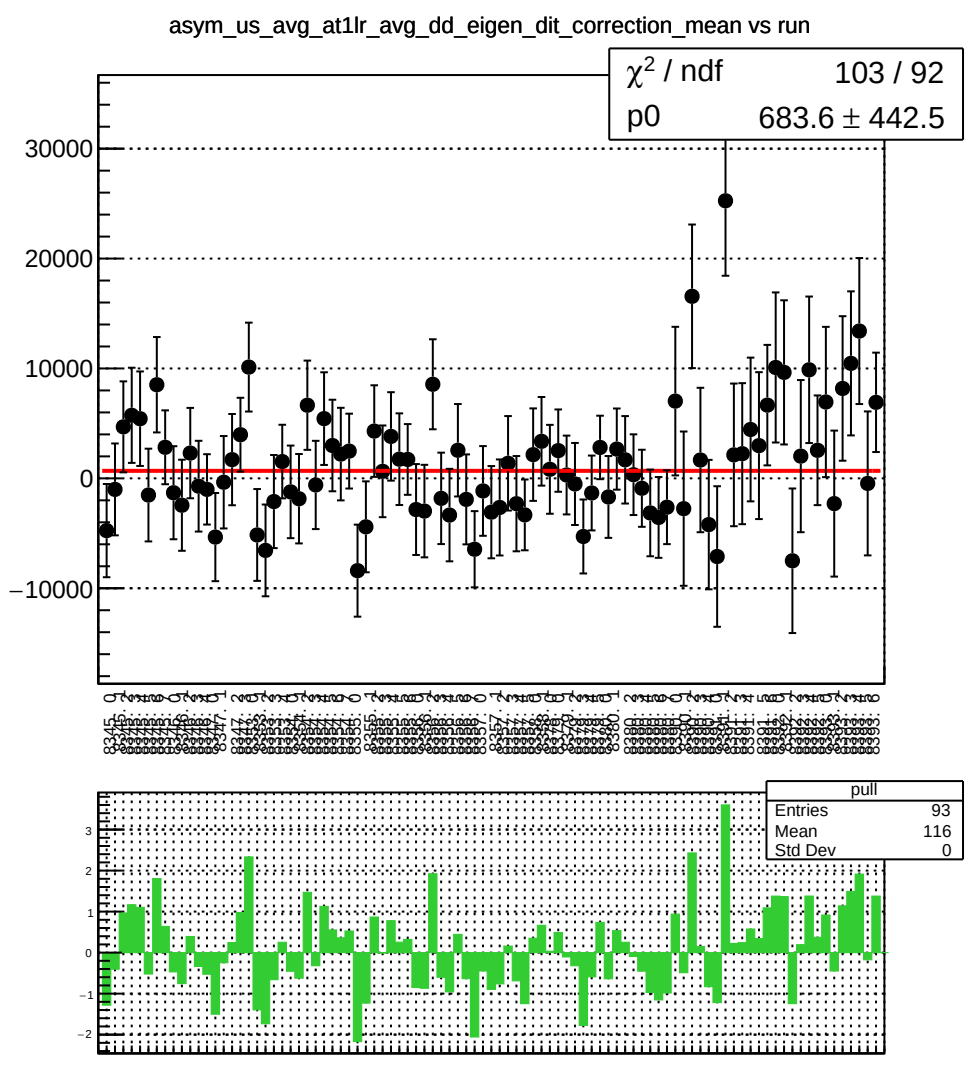

pull1D
Entries 93
Mean 0.07232
Std Dev 1.05
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

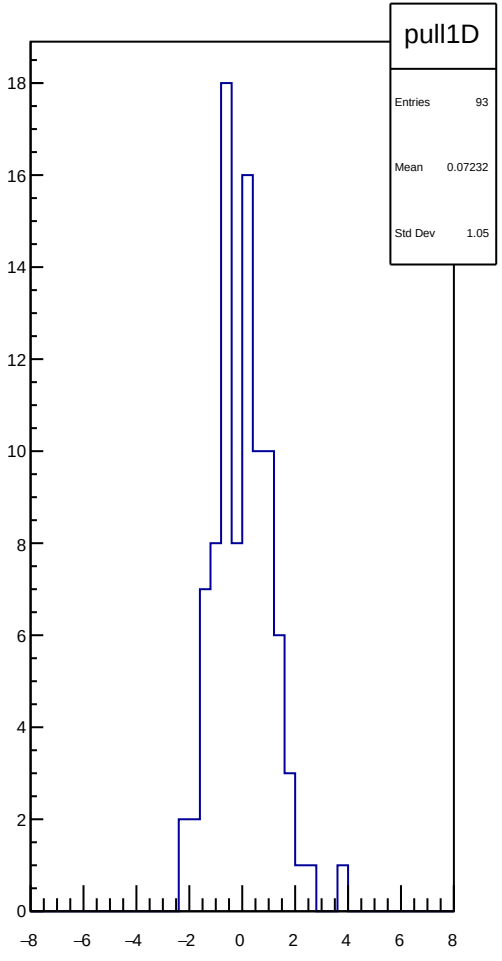

asym_us_avg_at1lr_avg_dd_dit_correction_rms vs run
χ² / ndf 7.238e+04 / 92
p0 413.5 ± 0.3129
700
650
600
550
500
450
400
350
300

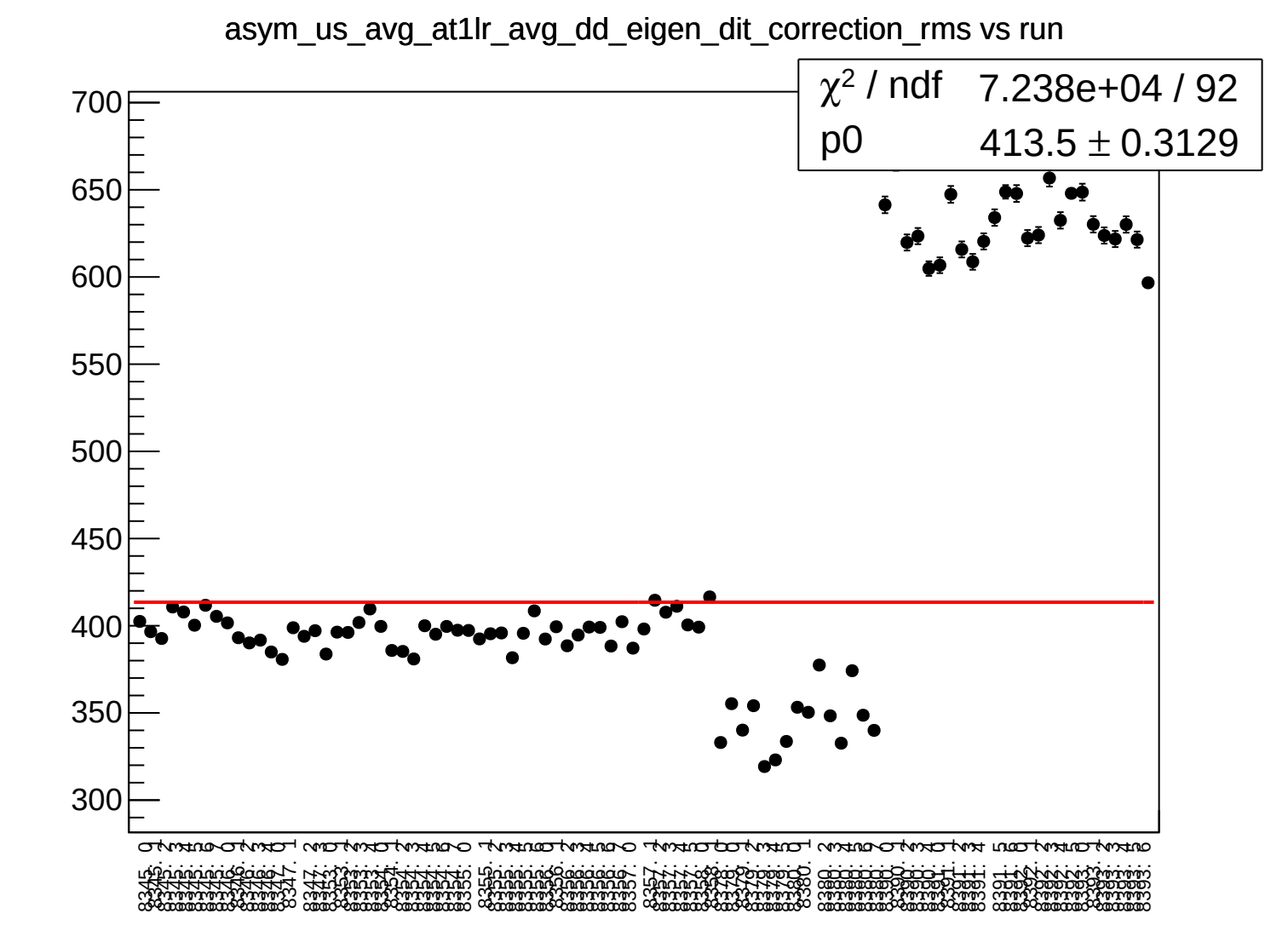

eigen_dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 86.91 / 92
p0 2822 ± 1836
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −126.9
Std Dev 0
2
1
0
−1
−2

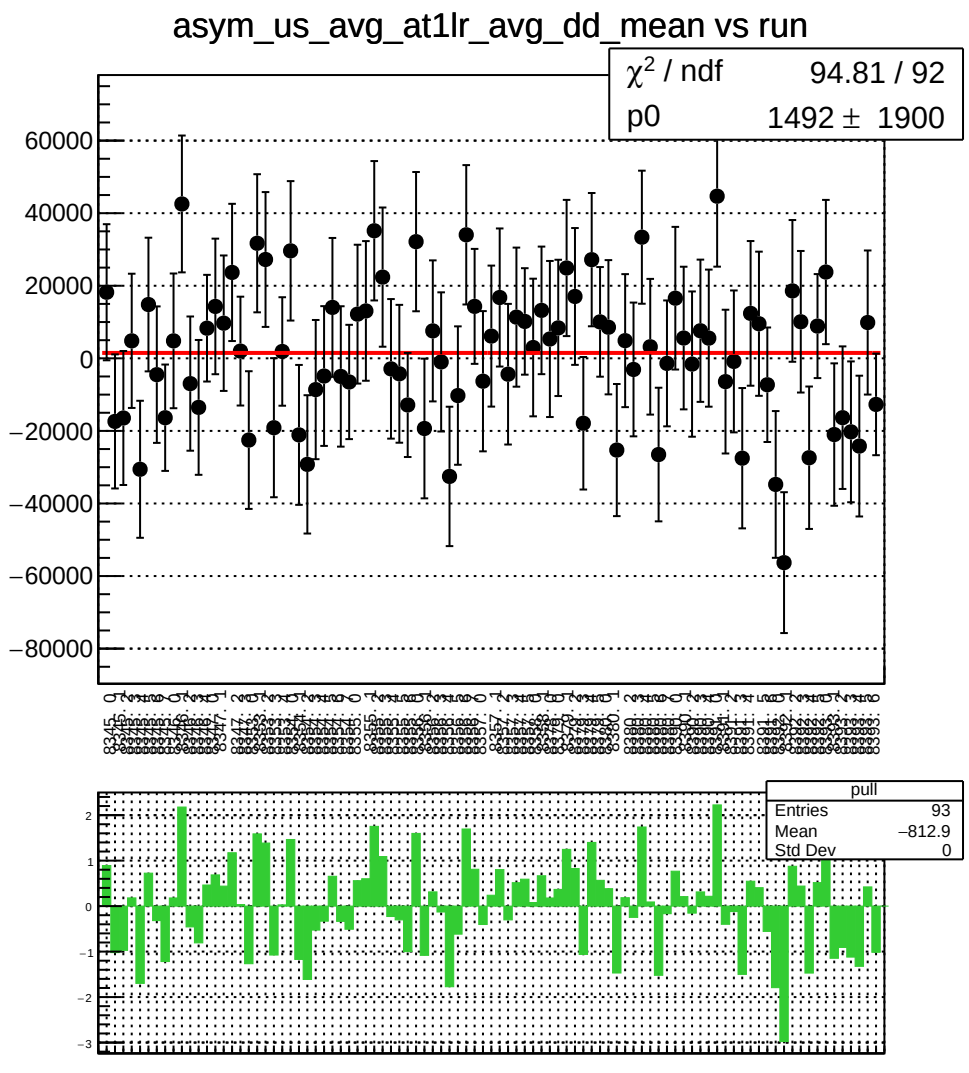

pull1D
Entries 93
Mean 0.005947
Std Dev 0.9667
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

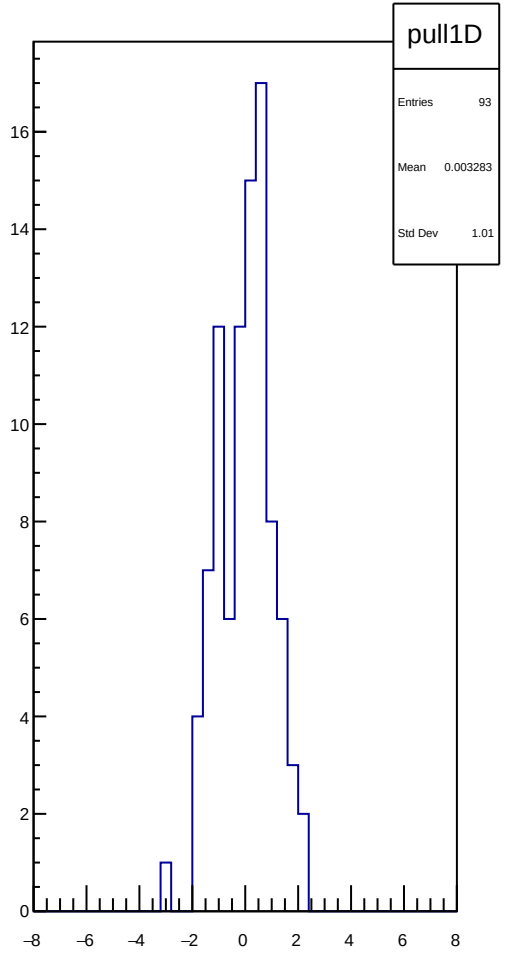

eigen_dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 431.8 / 92
p0 1751 ± 1.298
1820
1800
1780
1760
1740
1720
1700

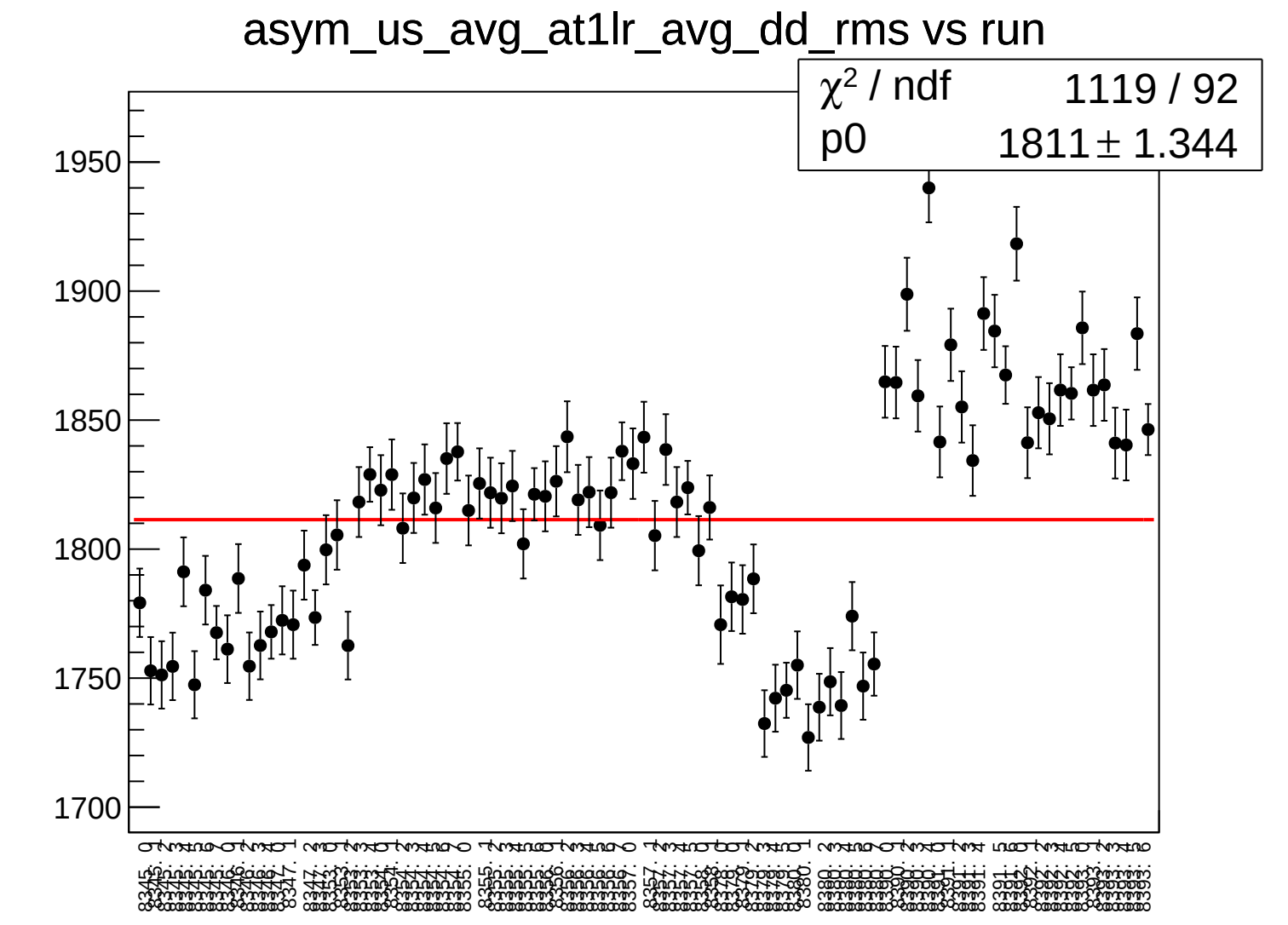

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 103 / 92
p0 683.6 ± 442.5
30000
20000
10000
0
−10000
pull
Entries 93
Mean 116
Std Dev 0
3
2
1
0
−1
−2

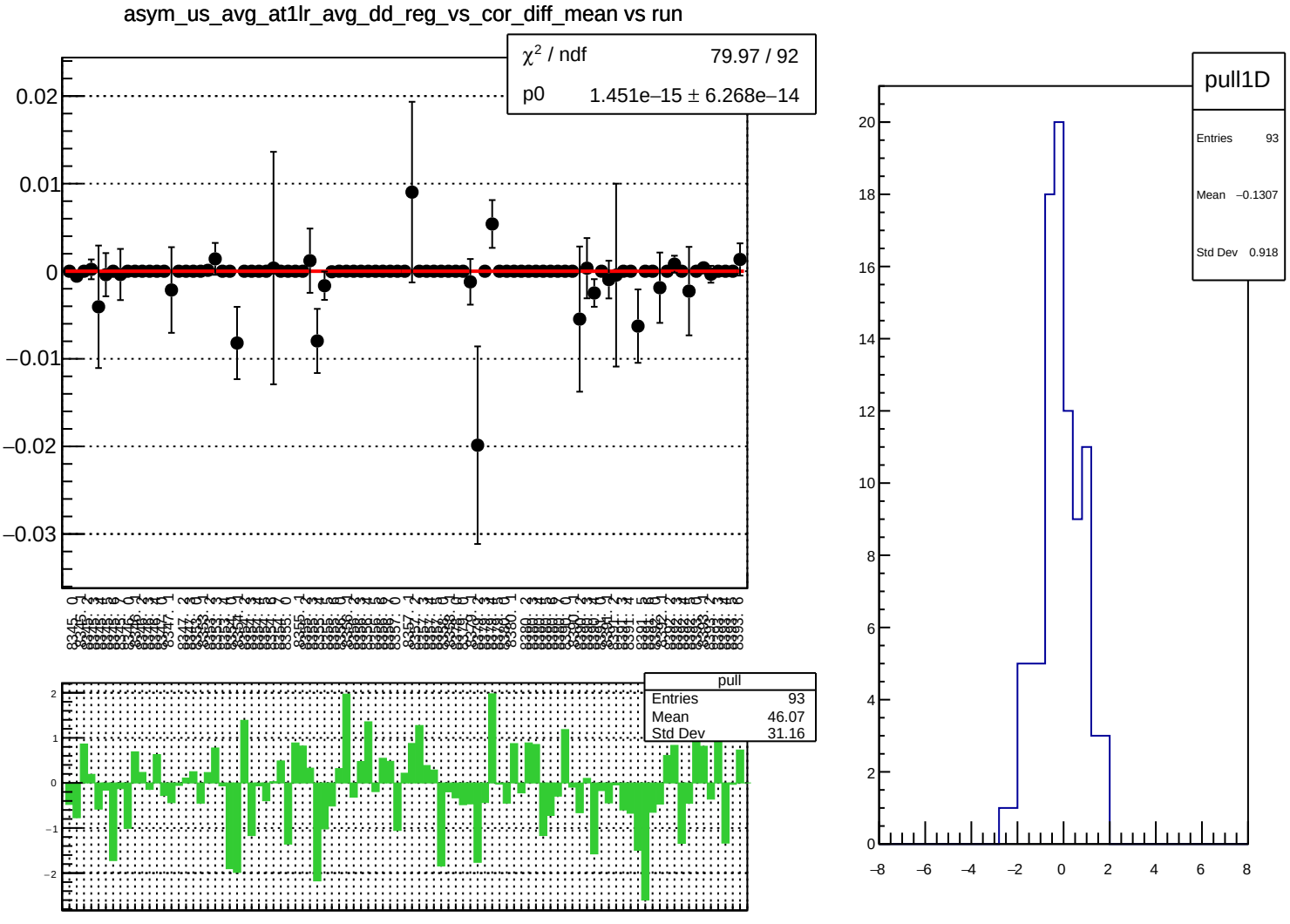

pull1D
Entries 93
Mean 0.07232
Std Dev 1.05
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

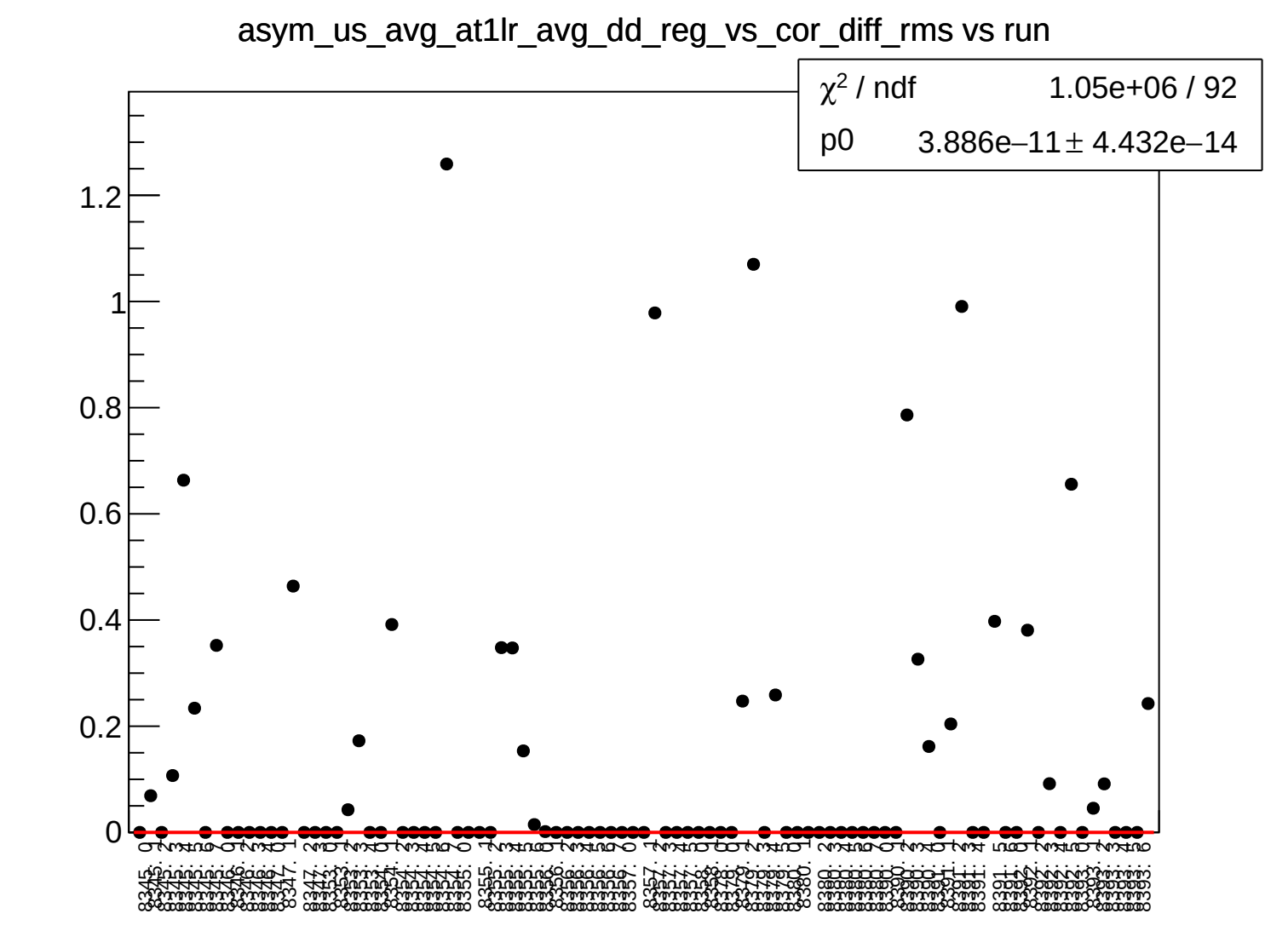

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 7.238e+04 / 92
p0 413.5 ± 0.3129
700
650
600
550
500
450
400
350
300

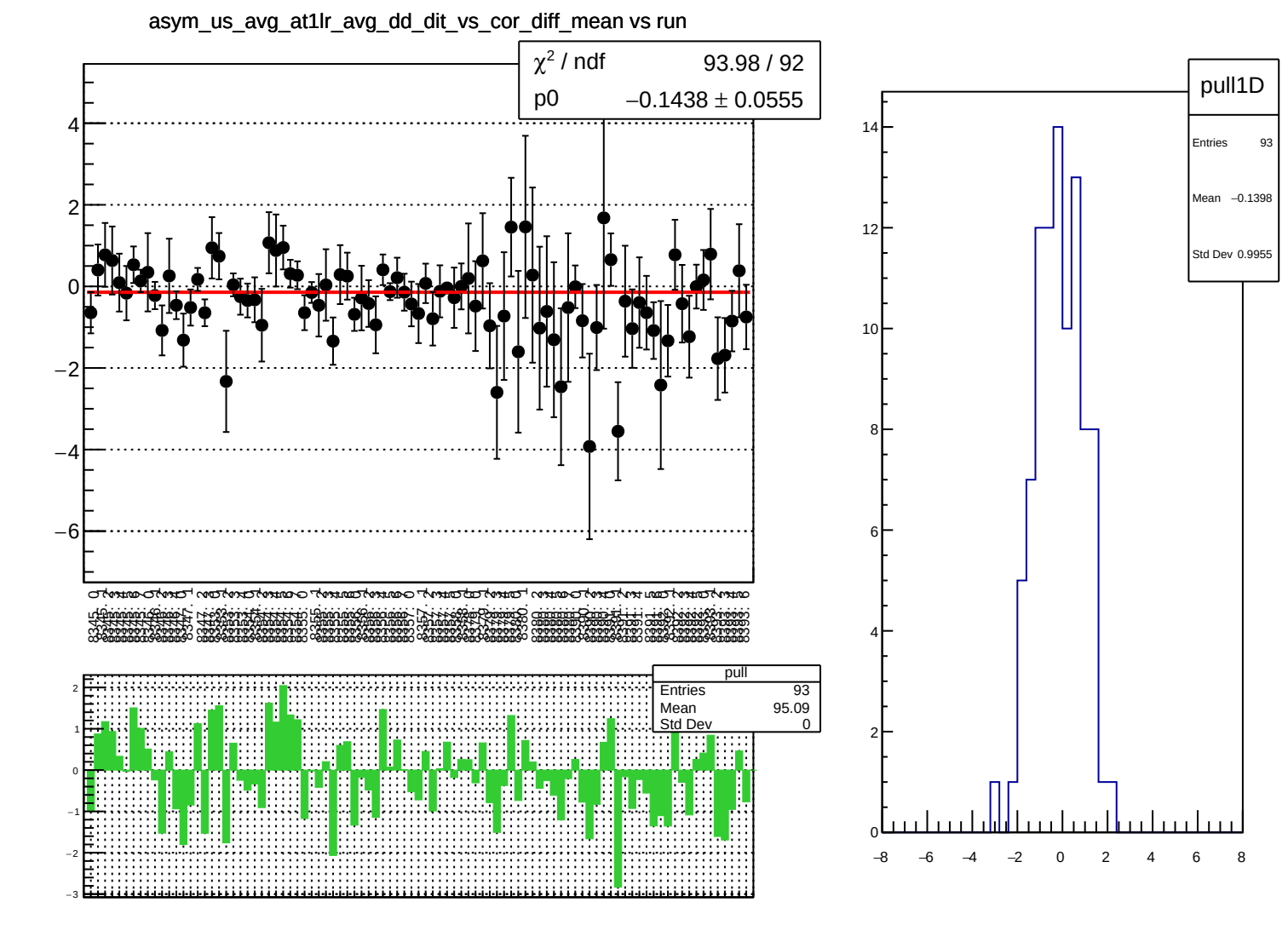

asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 94.81 / 92
p0 1492 ± 1900
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean −812.9
Std Dev 0
2
1
0
−1
−2
−3

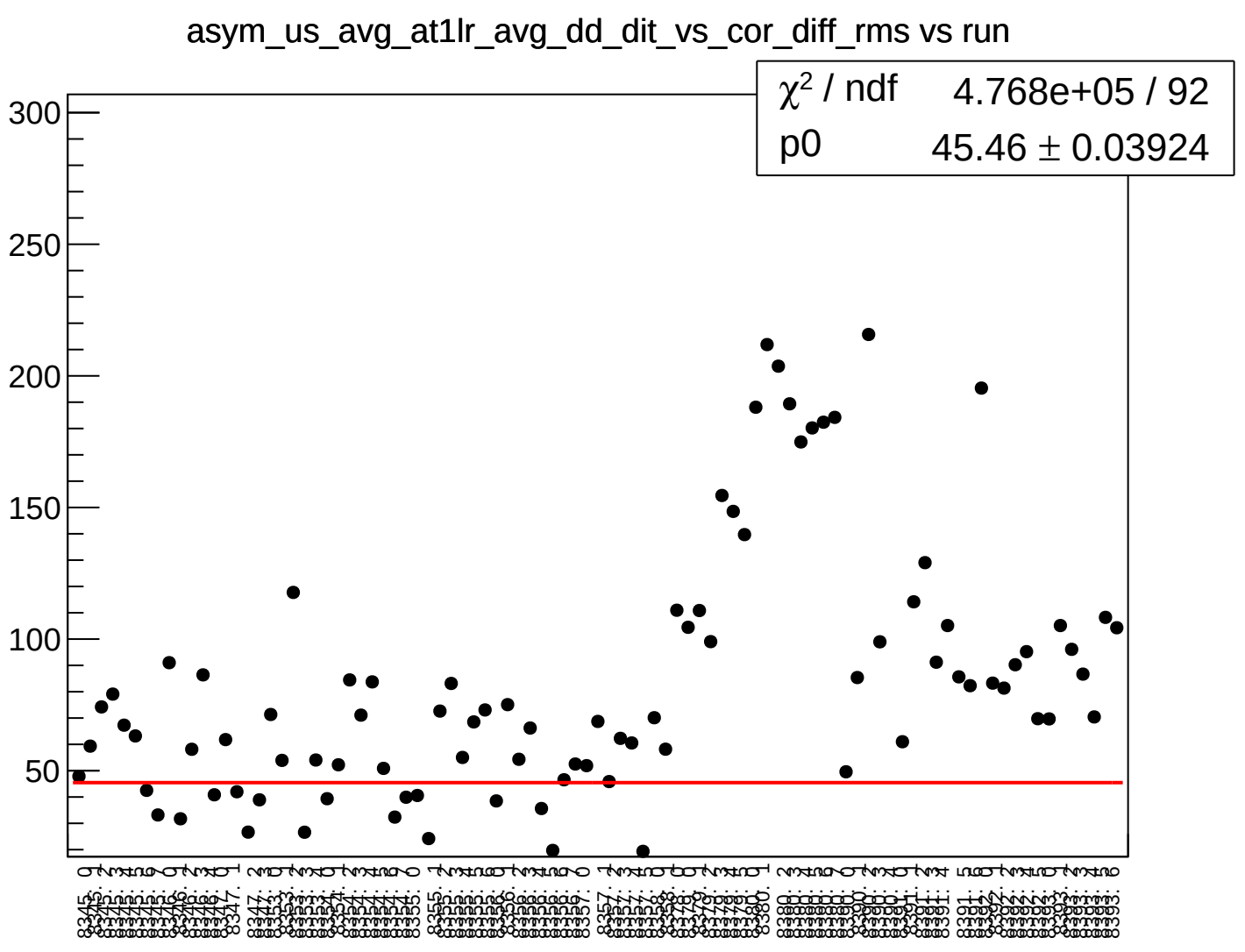

pull1D
Entries 93
Mean 0.003283
Std Dev 1.01
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

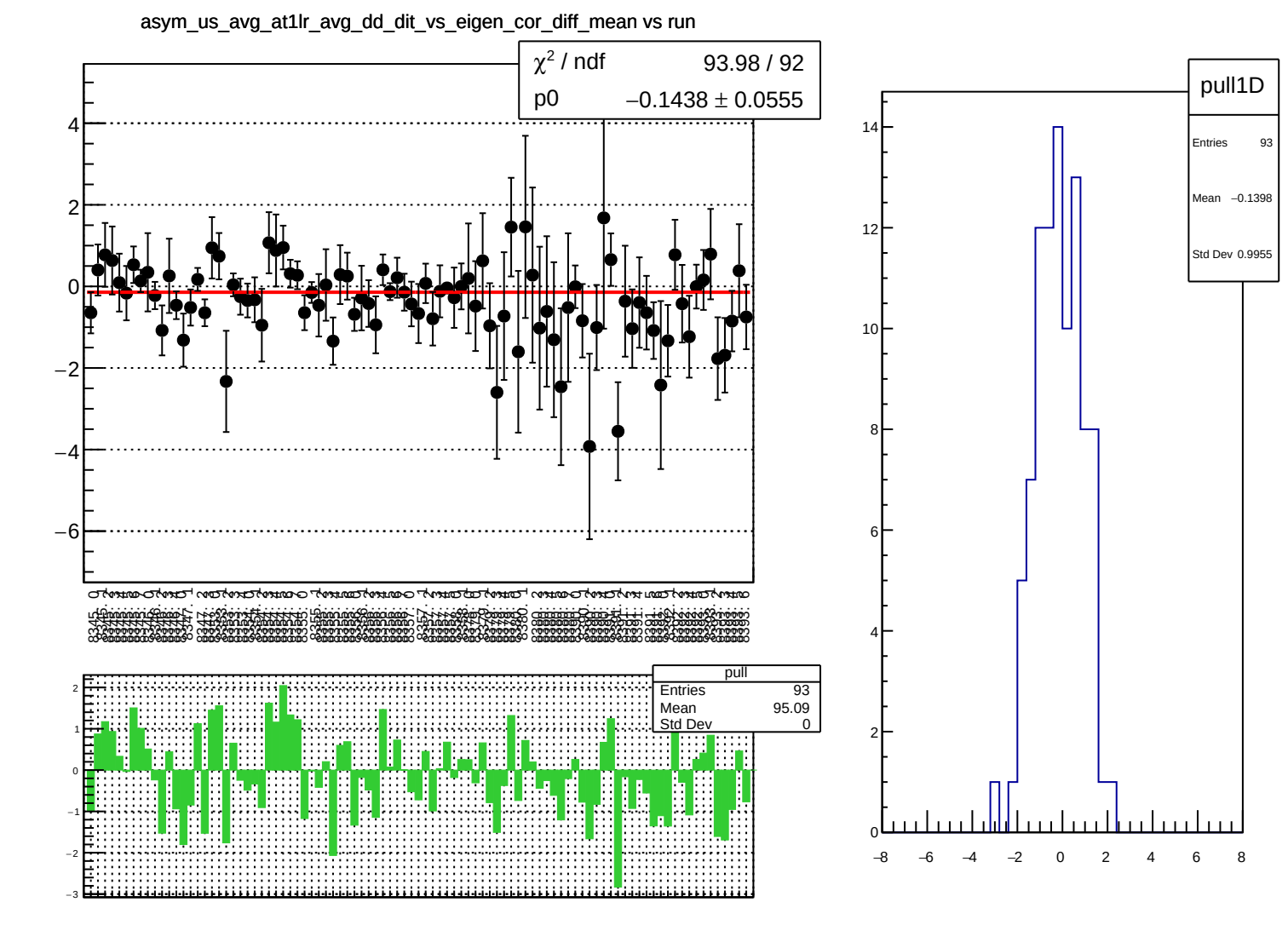

asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 1119 / 92
p0 1811 ± 1.344
1950
1900
1850
1800
1750
1700

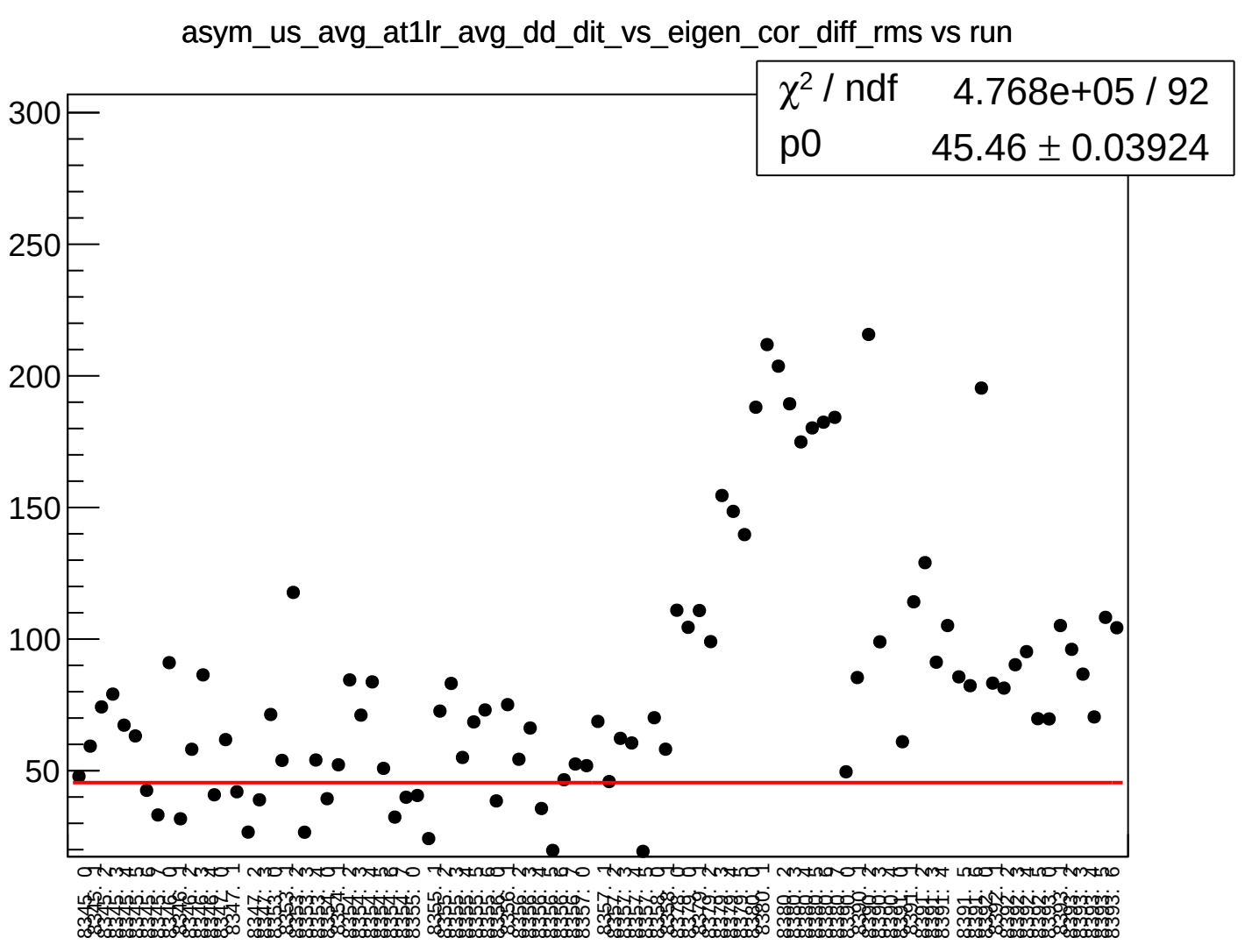

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 79.97 / 92
p0 1.451e−15 ± 6.268e−14
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 93
Mean 46.07
Std Dev 31.16
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.1307
Std Dev 0.918
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

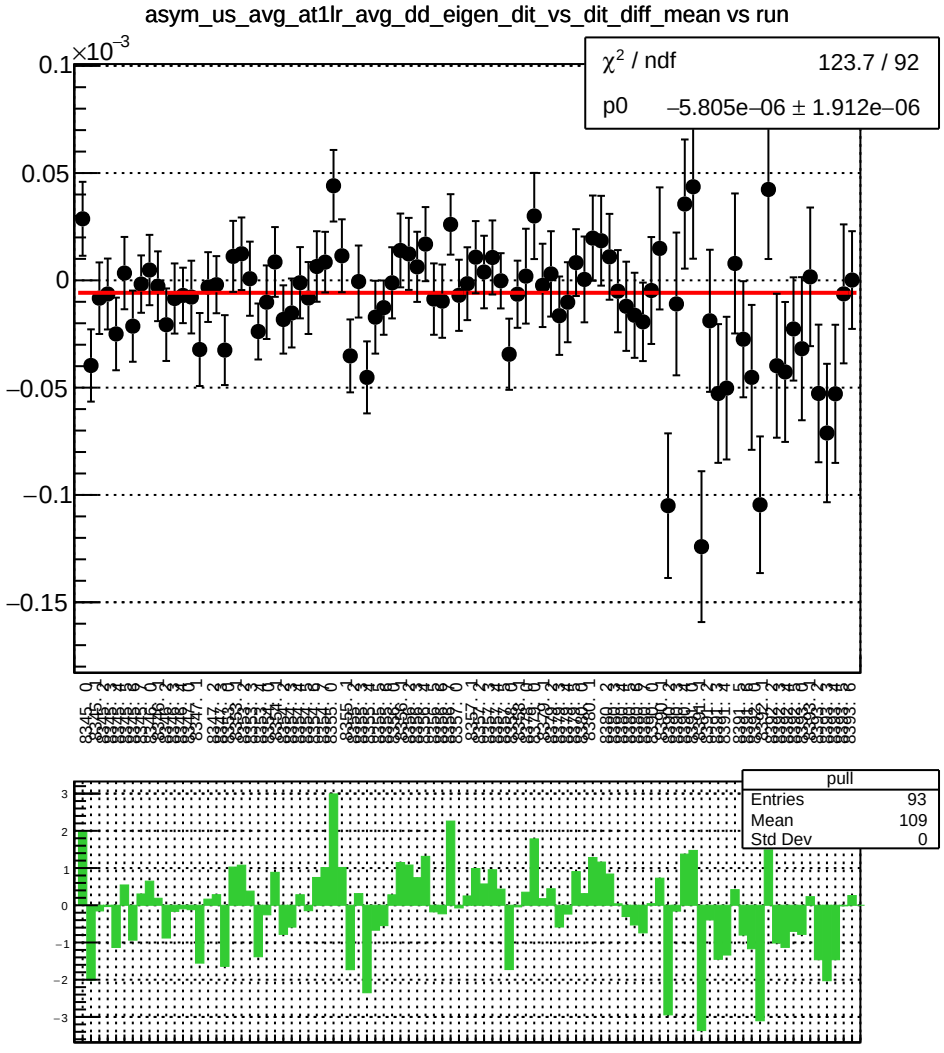

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.05e+06 / 92
p0 3.886e−11 ± 4.432e−14
1.2
1
0.8
0.6
0.4
0.2
0

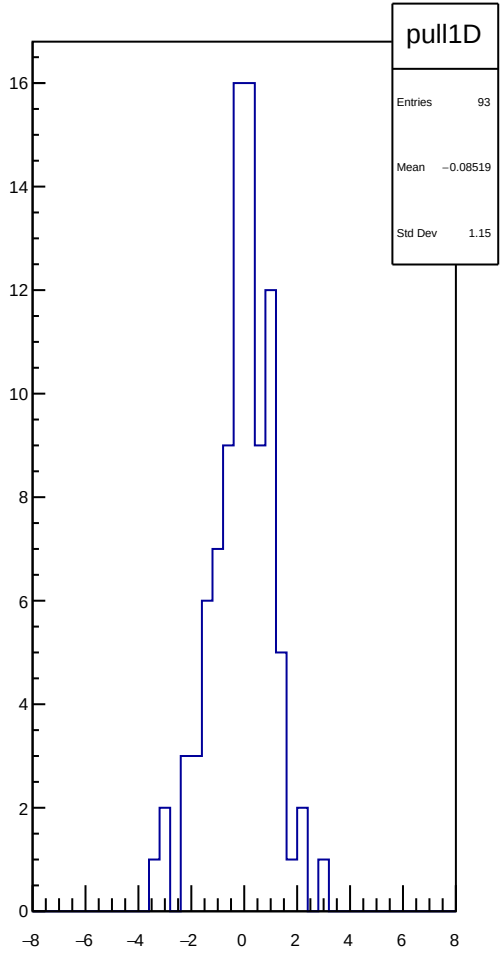

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 93.98 / 92
p0 −0.1438 ± 0.0555
pull
Entries 93
Mean 95.09
Std Dev 0
pull1D
Entries 93
Mean −0.1398
Std Dev 0.9955

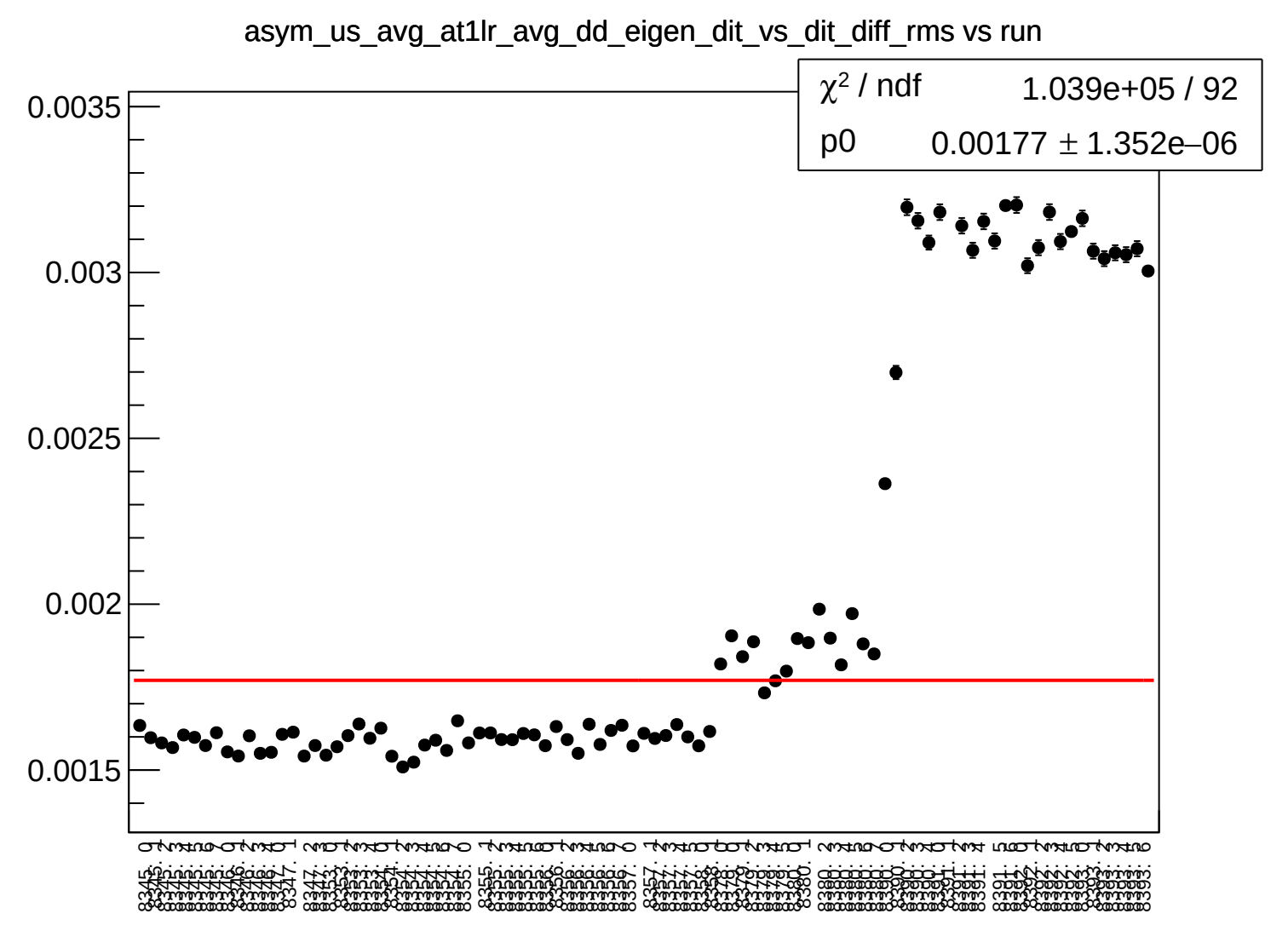

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.768e+05 / 92
p0 45.46 ± 0.03924
300
250
200
150
100
50

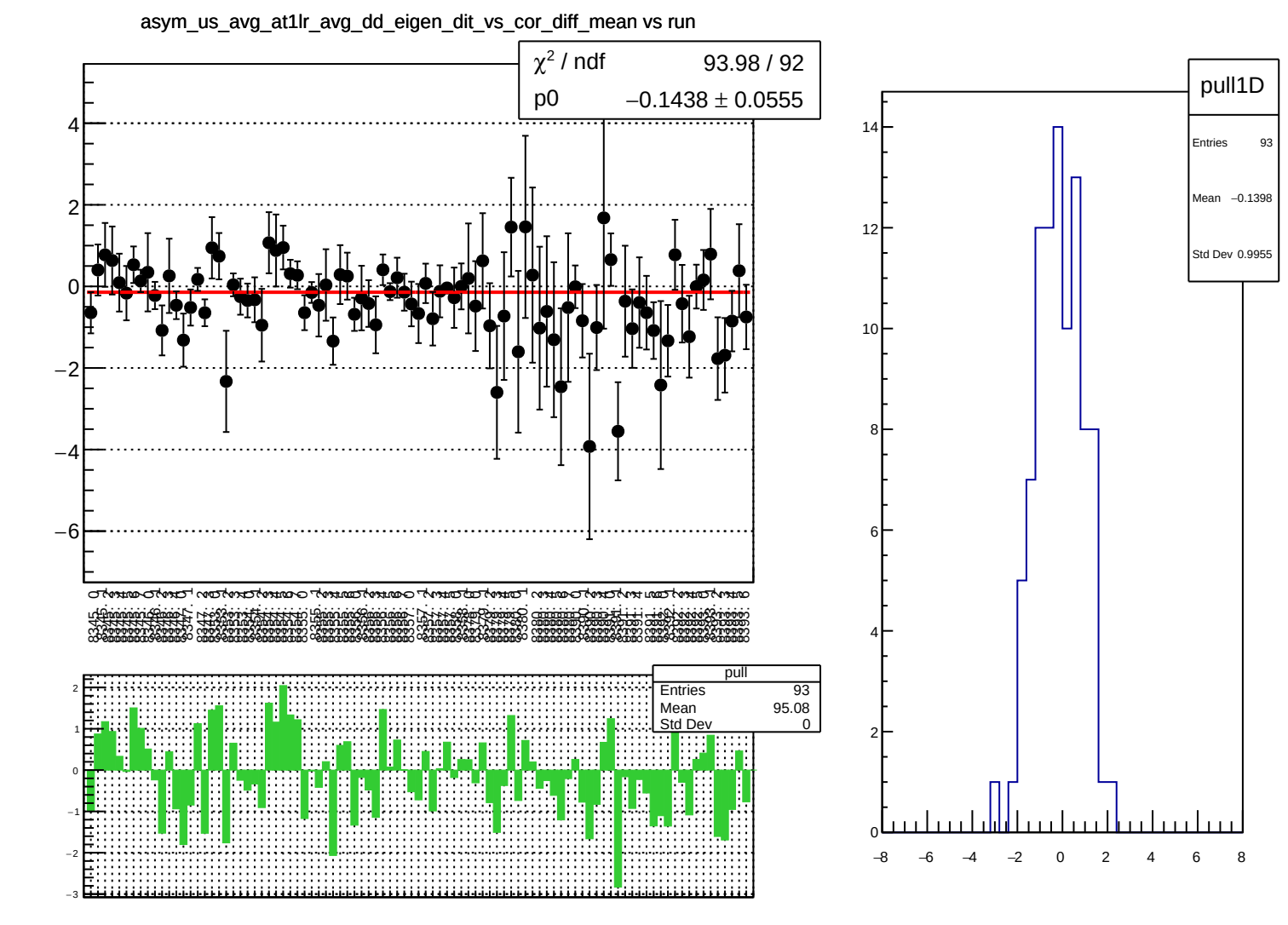

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.98 / 92
p0 −0.1438 ± 0.0555
pull
Entries 93
Mean 95.09
Std Dev 0
pull1D
Entries 93
Mean −0.1398
Std Dev 0.9955

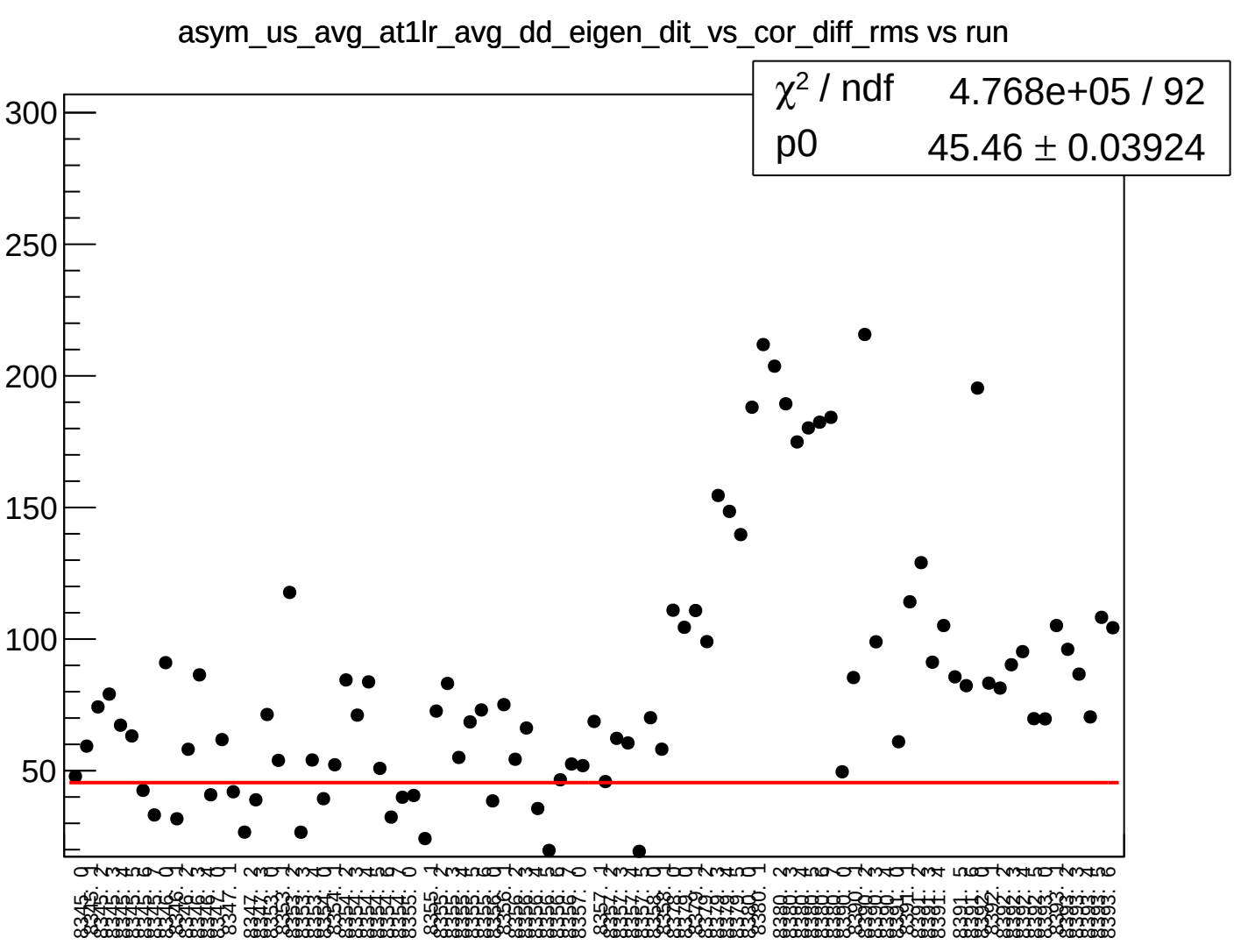

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.768e+05 / 92
p0 45.46 ± 0.03924
300
250
200
150
100
50

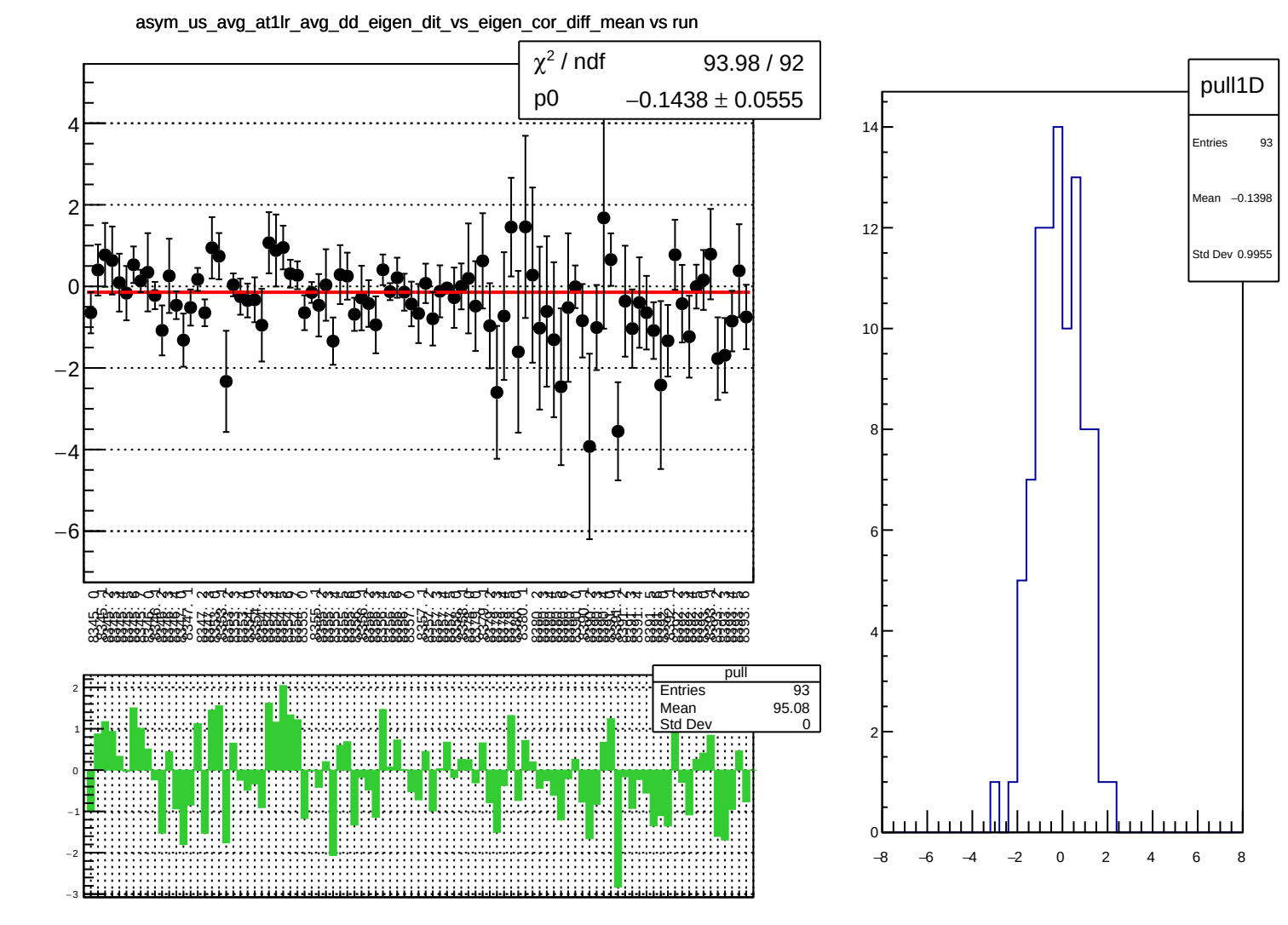

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 123.7 / 92
p0 −5.805e−06 ± 1.912e−06
pull
Entries 93
Mean 109
Std Dev 0

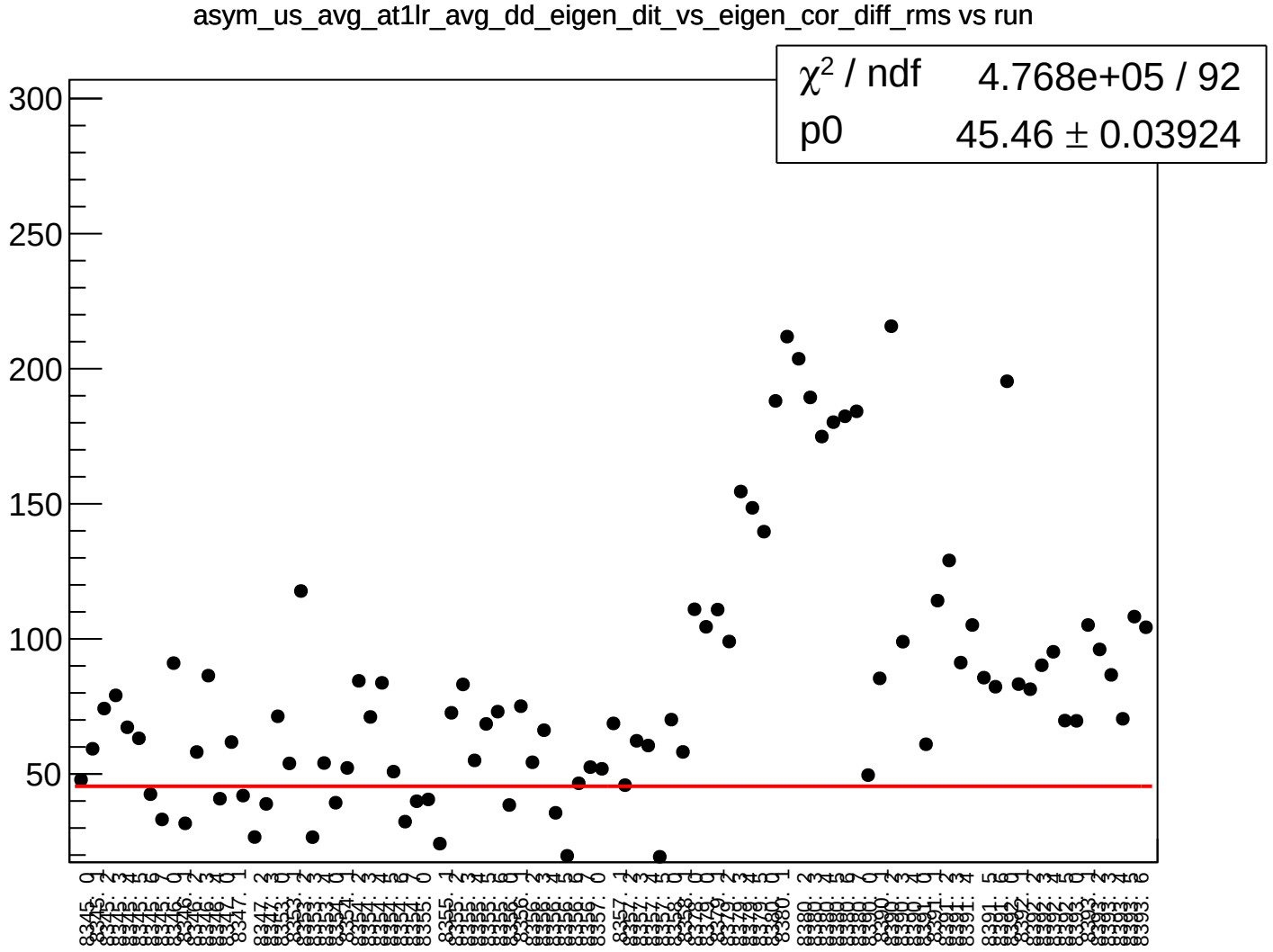

pull1D
Entries 93
Mean −0.08519
Std Dev 1.15

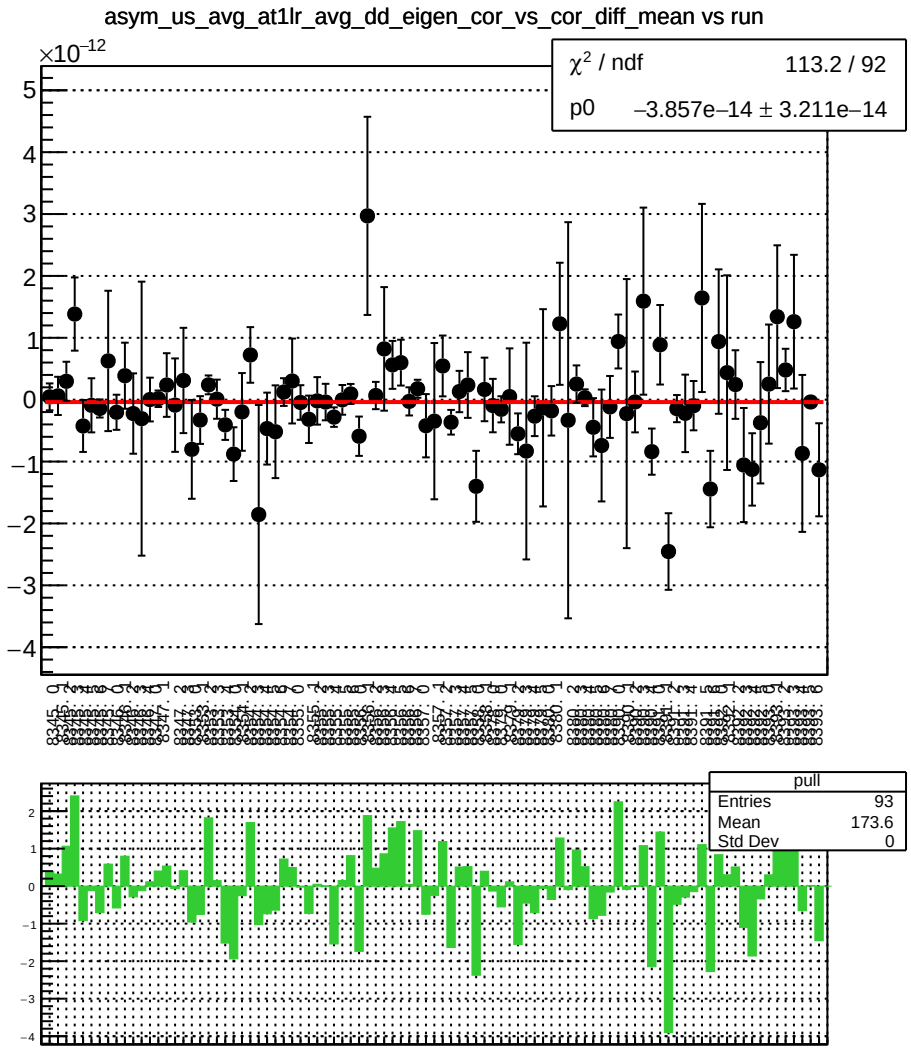

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.039e+05 / 92
p0 0.00177 ± 1.352e−06
0.0035
0.003
0.0025
0.002
0.0015

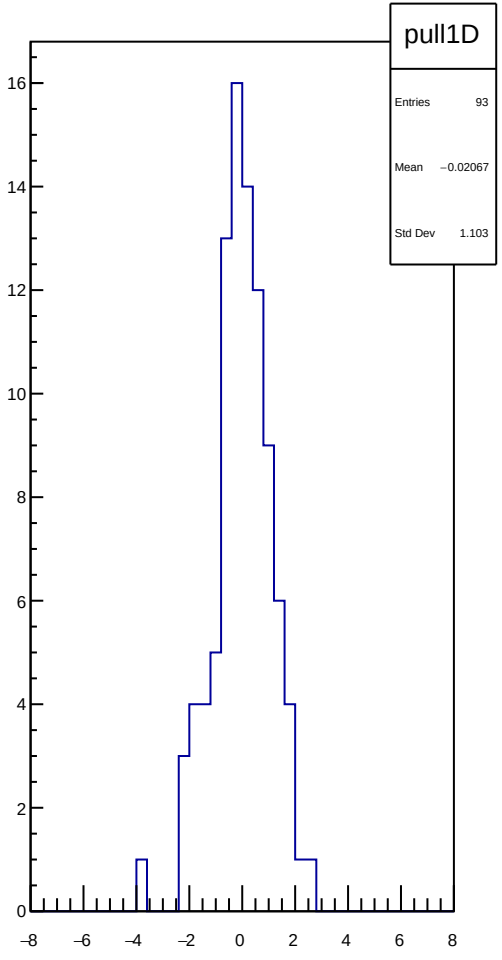

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.98 / 92
p0 −0.1438 ± 0.0555
pull
Entries 93
Mean 95.08
Std Dev 0
pull1D
Entries 93
Mean −0.1398
Std Dev 0.9955

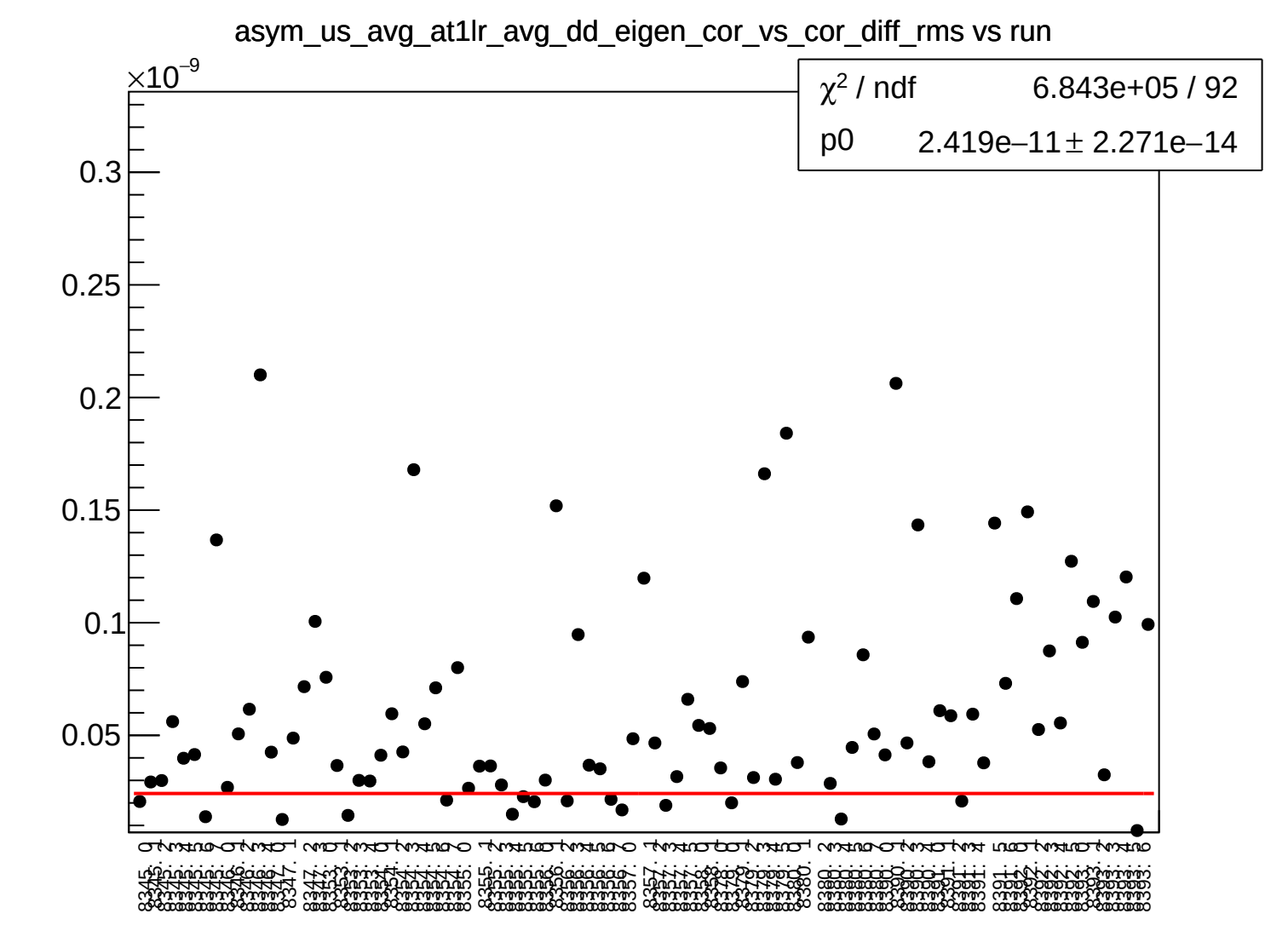

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.768e+05 / 92
p0 45.46 ± 0.03924
300
250
200
150
100
50

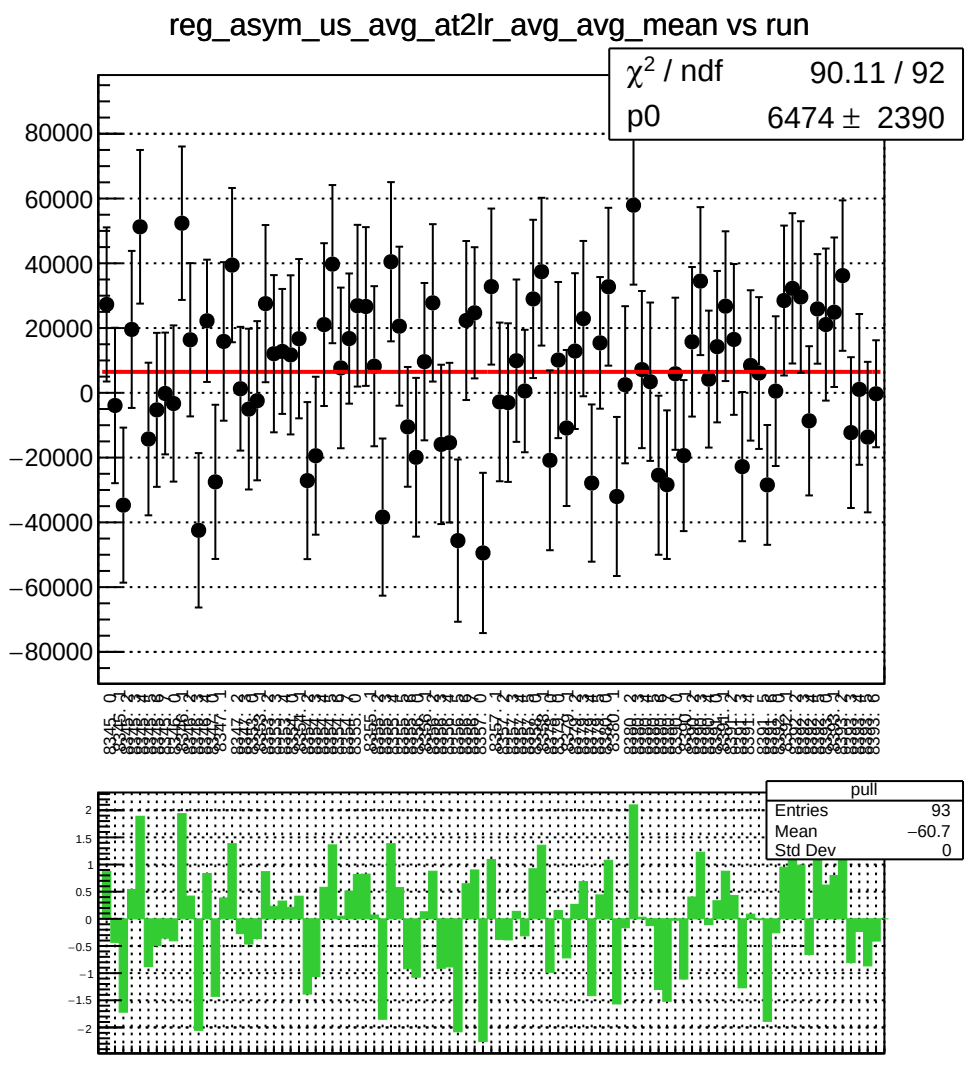

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.98 / 92
p0 −0.1438 ± 0.0555
pull
Entries 93
Mean 95.08
Std Dev 0
pull1D
Entries 93
Mean −0.1398
Std Dev 0.9955

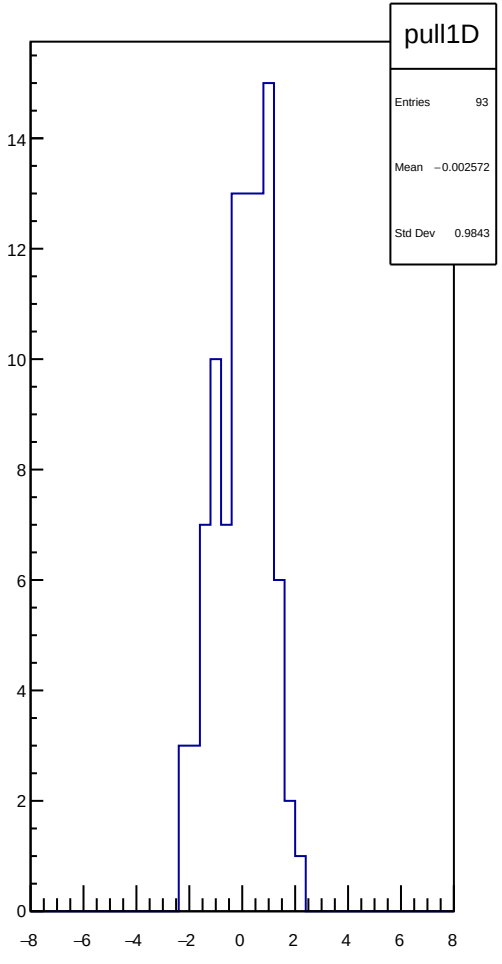

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.768e+05 / 92
p0 45.46 ± 0.03924
300
250
200
150
100
50

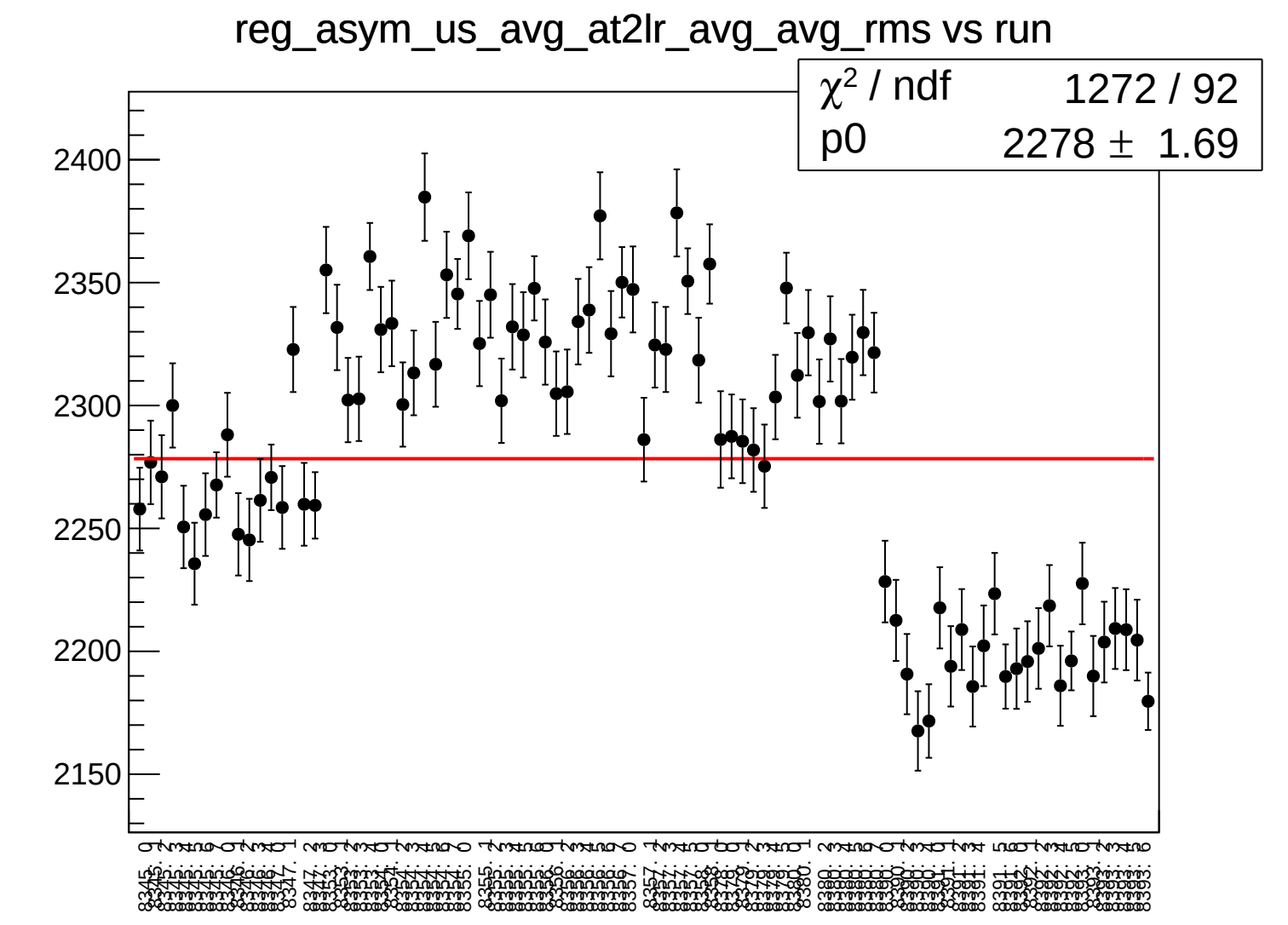

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 113.2 / 92
p0 −3.857e−14 ± 3.211e−14
pull
Entries 93
Mean 173.6
Std Dev 0

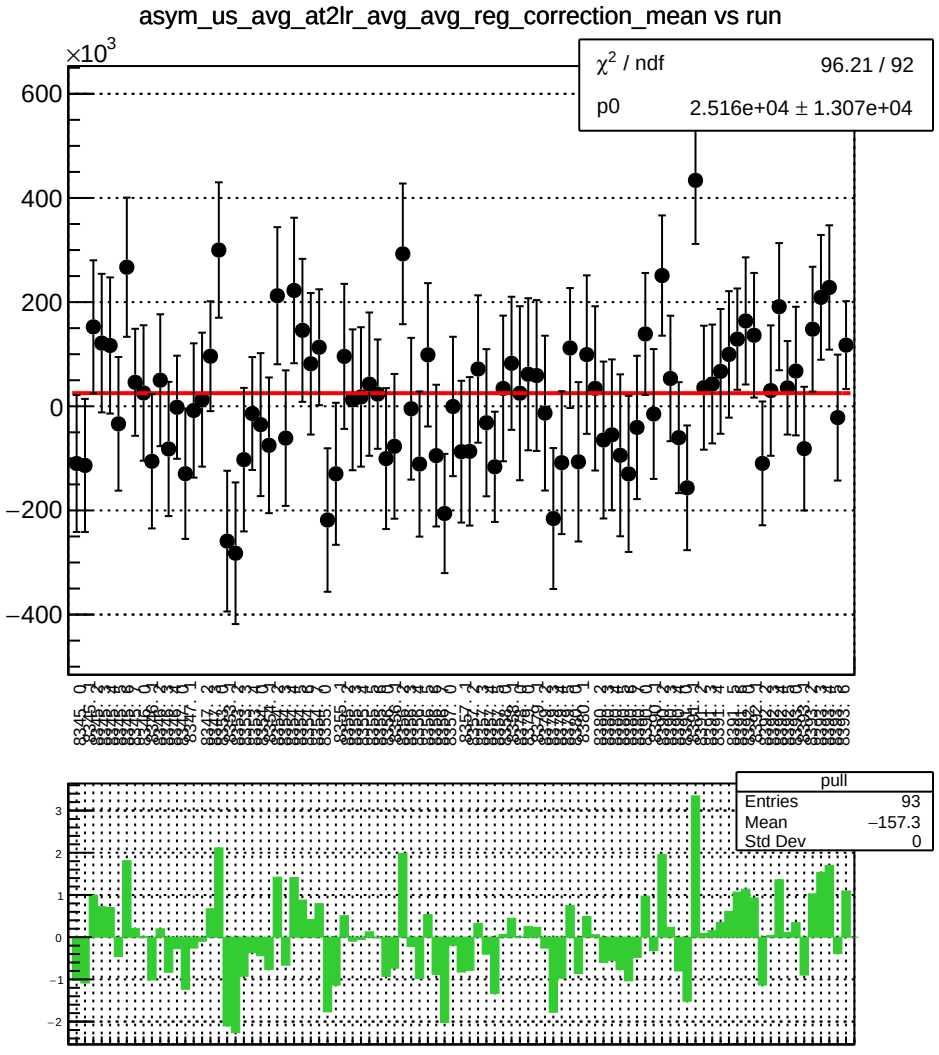

pull1D
Entries 93
Mean −0.02067
Std Dev 1.103

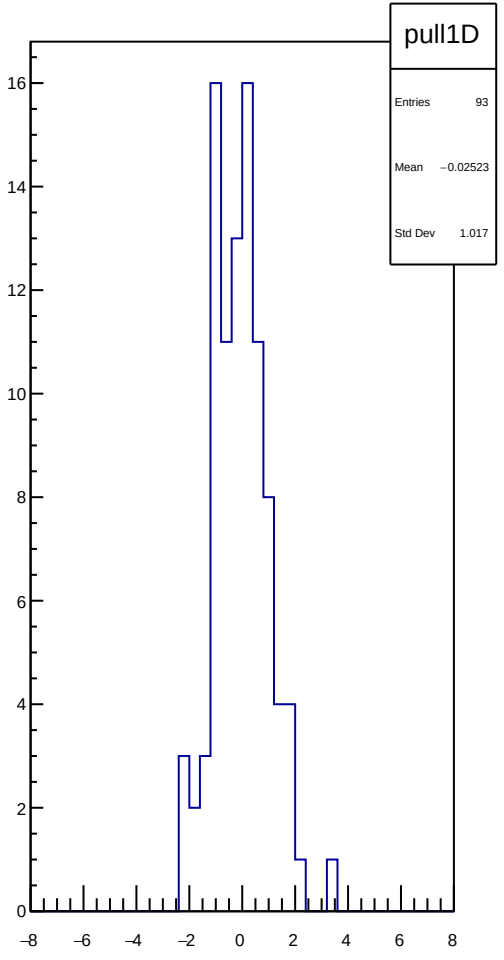

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.843e+05 / 92
p0 2.419e−11 ± 2.271e−14
0.3
0.25
0.2
0.15
0.1
0.05

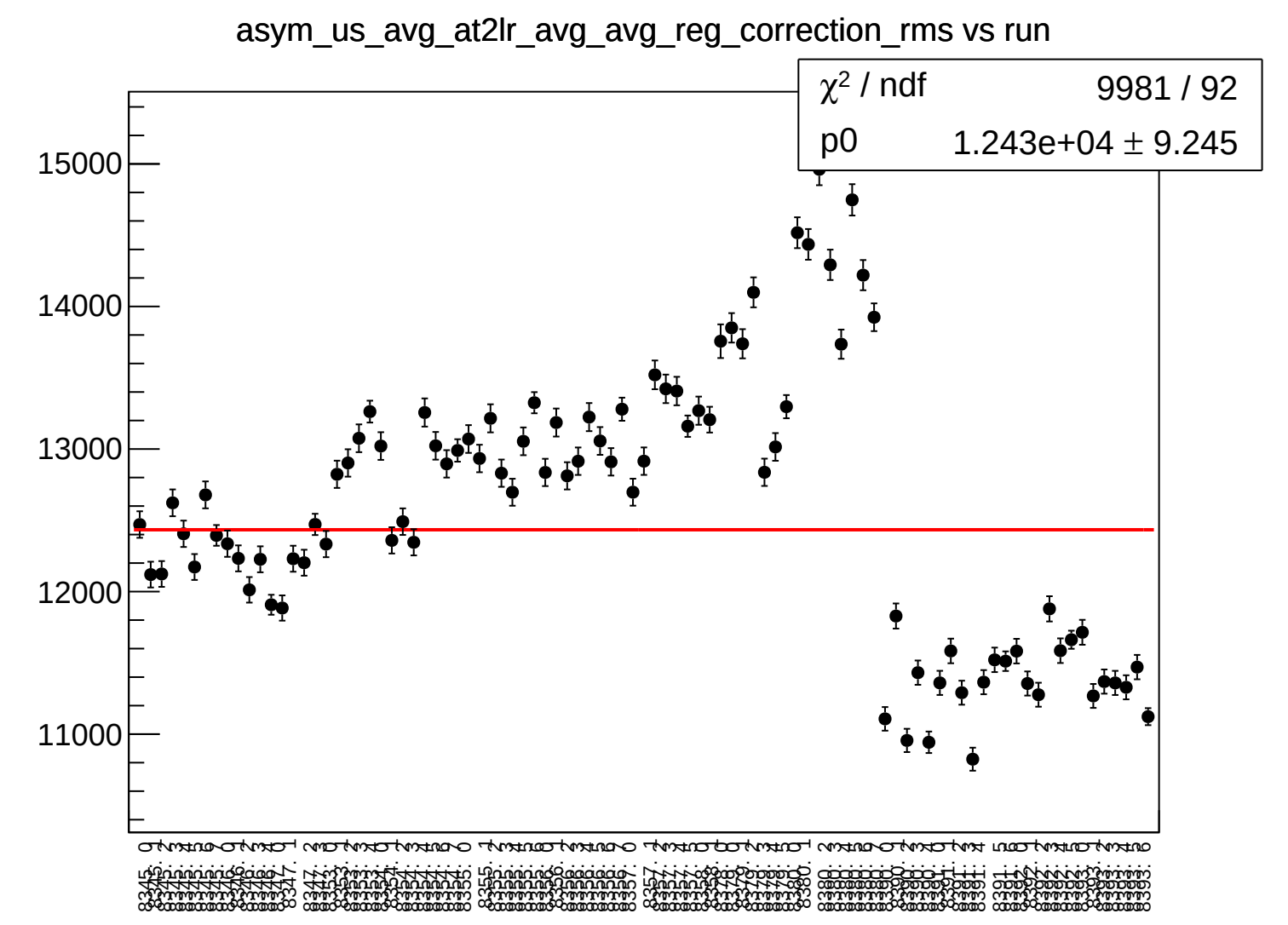

reg_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 90.11 / 92
p0 6474 ± 2390
pull
Entries 93
Mean −60.7
Std Dev 0

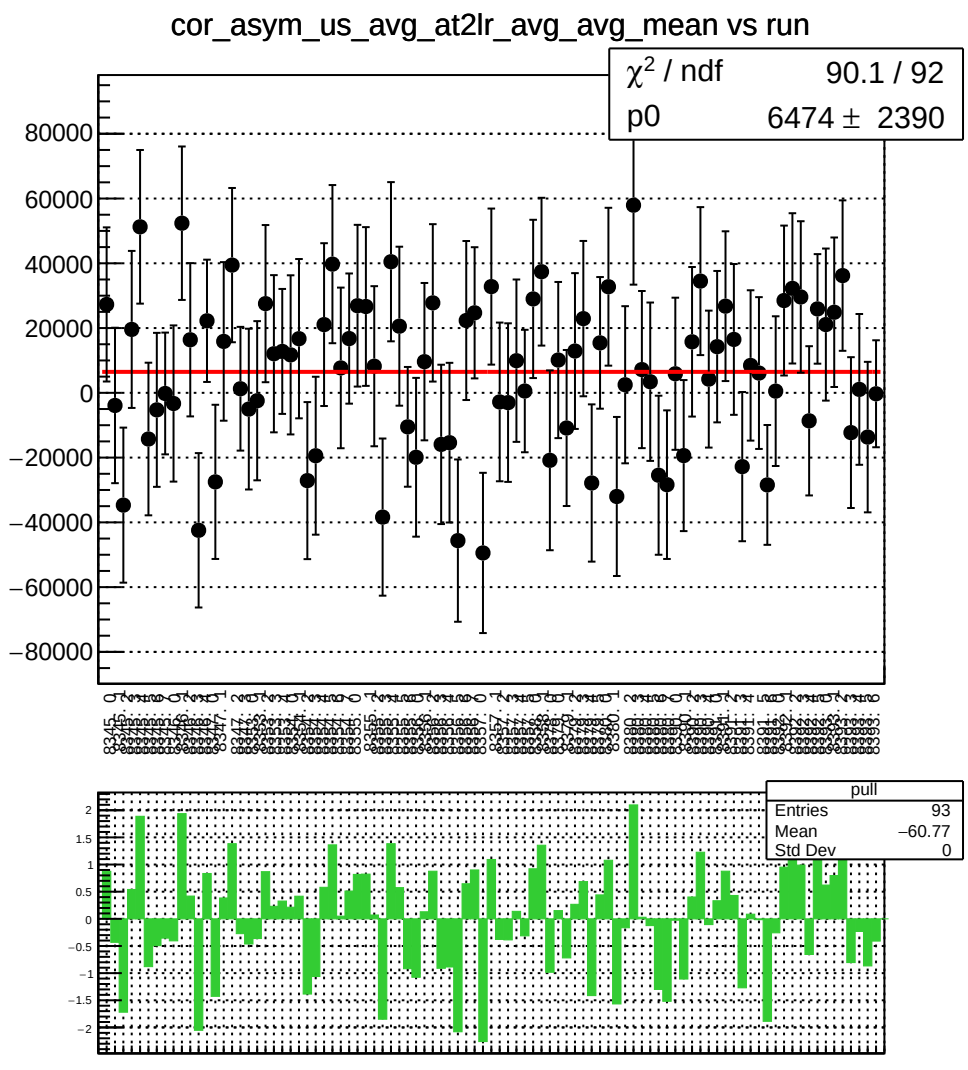

pull1D
Entries 93
Mean −0.002572
Std Dev 0.9843

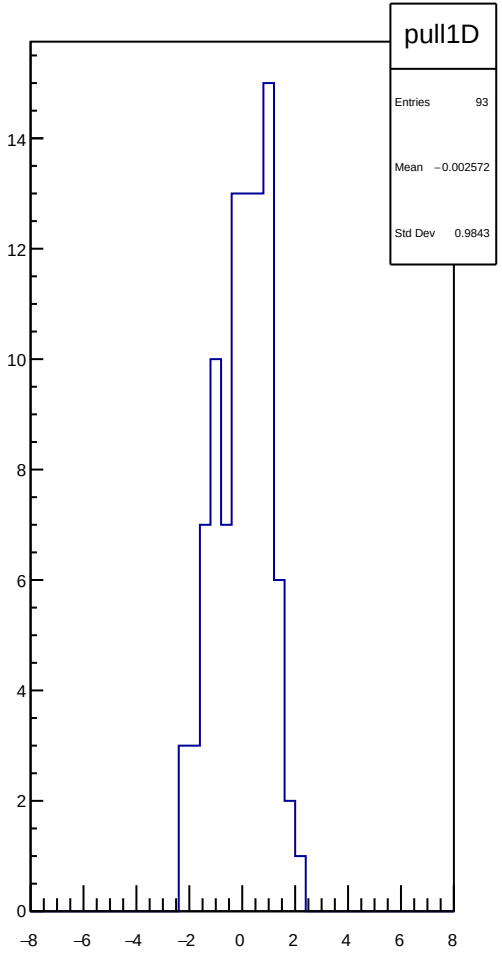

reg_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 1272 / 92
p0 2278 ± 1.69
2400
2350
2300
2250
2200
2150

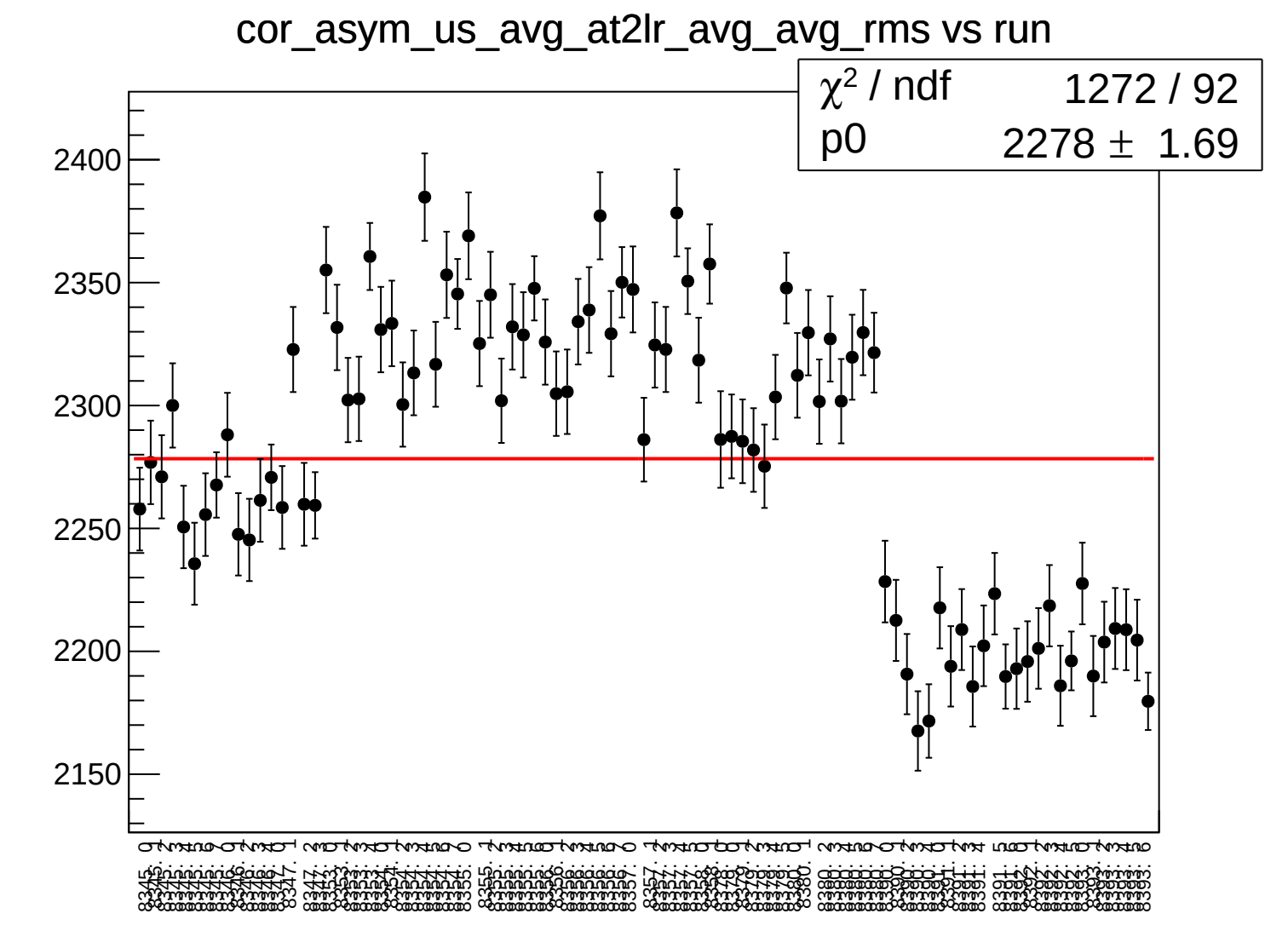

asym_us_avg_at2lr_avg_avg_reg_correction_mean vs run
×10^3
600
400
200
0
−200
−400
χ² / ndf 96.21 / 92
p0 2.516e+04 ± 1.307e+04
pull
Entries 93
Mean −157.3
Std Dev 0
3
2
1
0
−1
−2

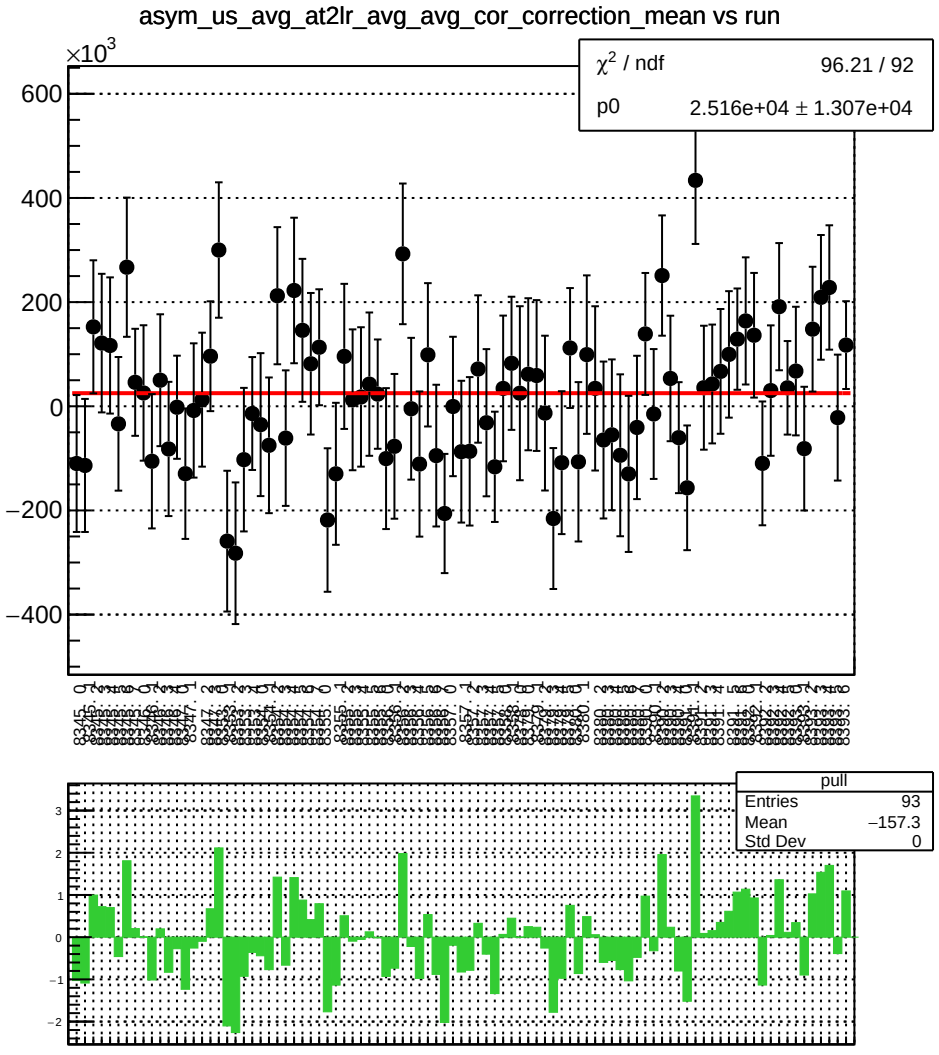

pull1D
Entries 93
Mean −0.02523
Std Dev 1.017
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

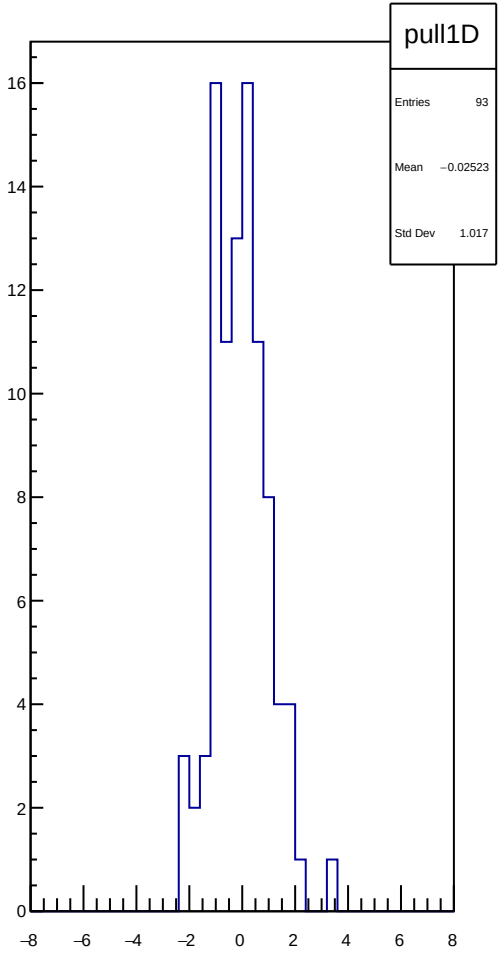

asym_us_avg_at2lr_avg_avg_reg_correction_rms vs run
χ² / ndf 9981 / 92
p0 1.243e+04 ± 9.245
15000
14000
13000
12000
11000

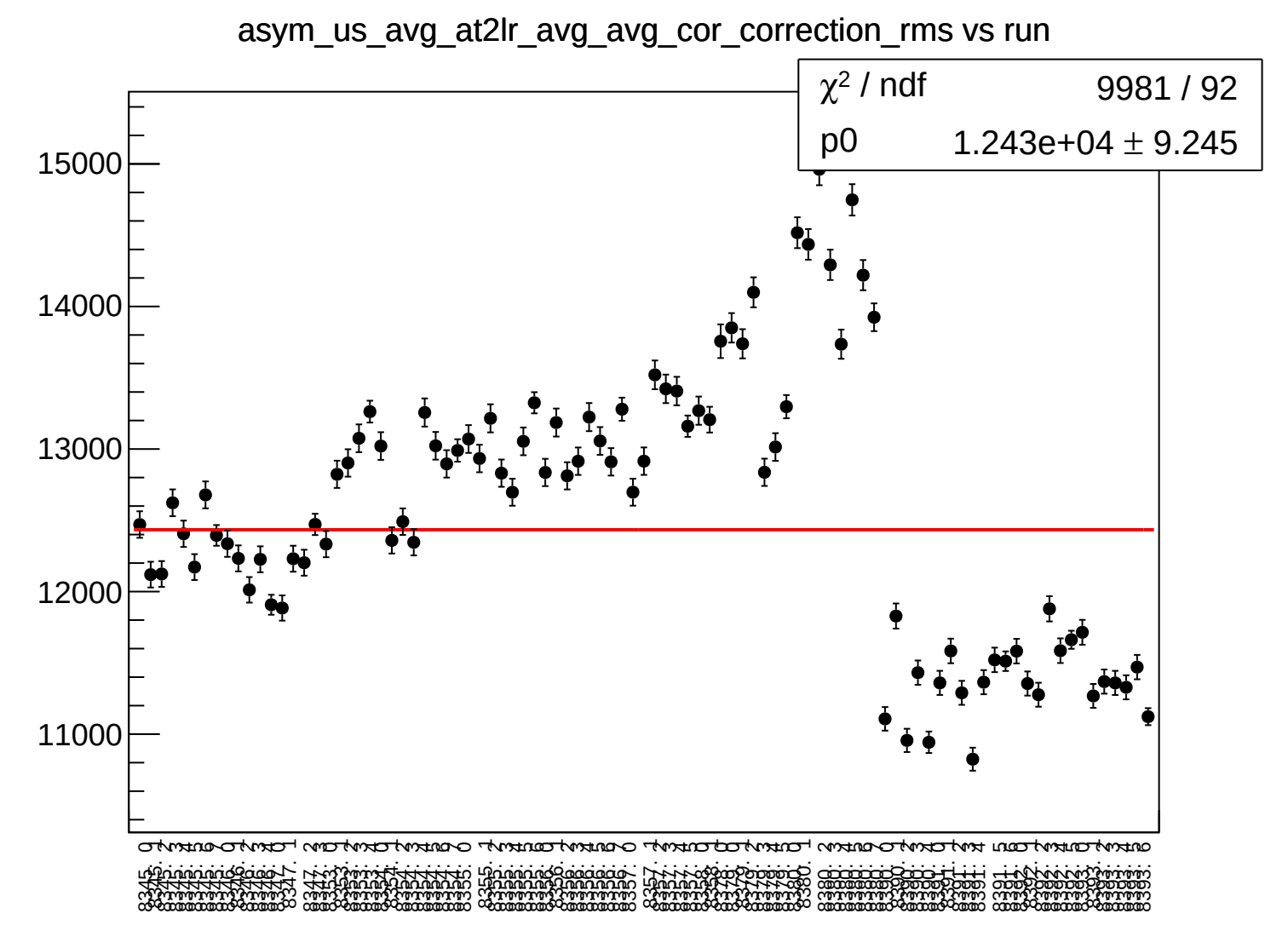

cor_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 90.1 / 92
p0 6474 ± 2390
pull
Entries 93
Mean −60.77
Std Dev 0

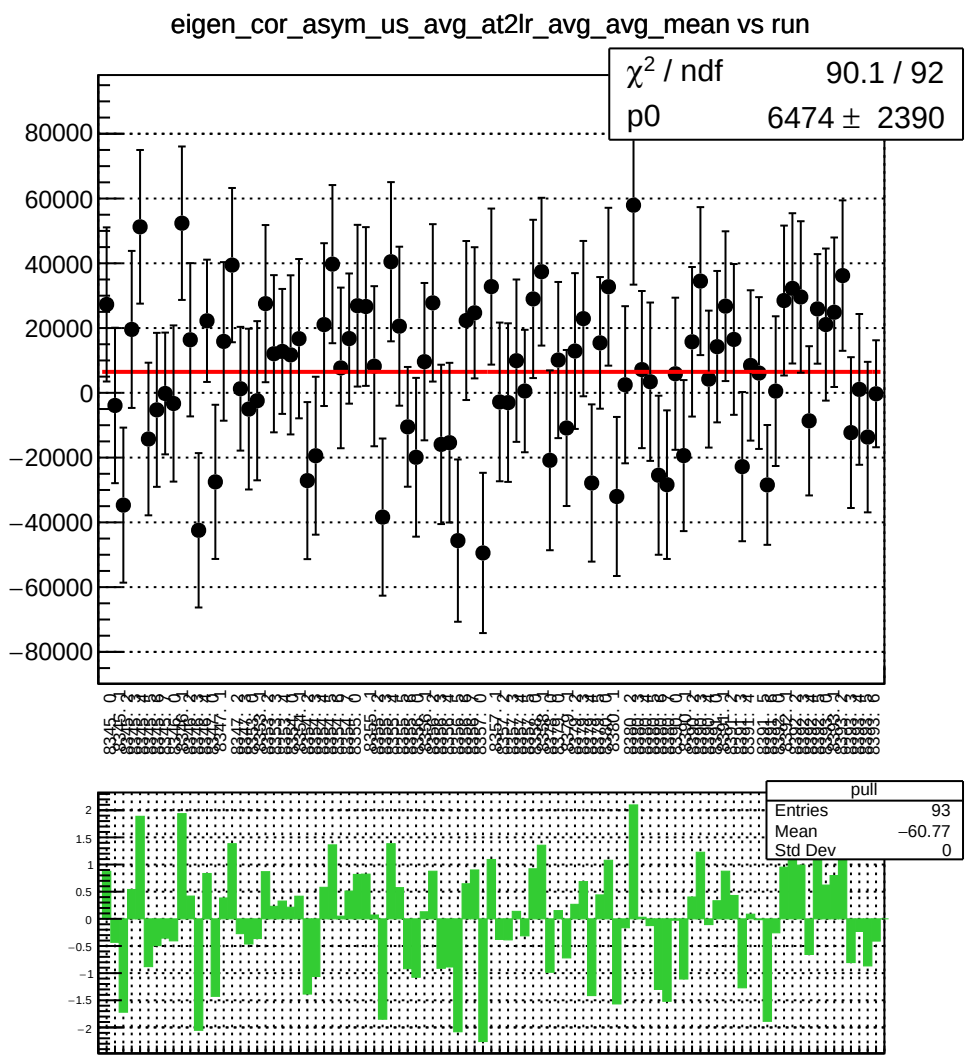

pull1D
Entries 93
Mean −0.002572
Std Dev 0.9843

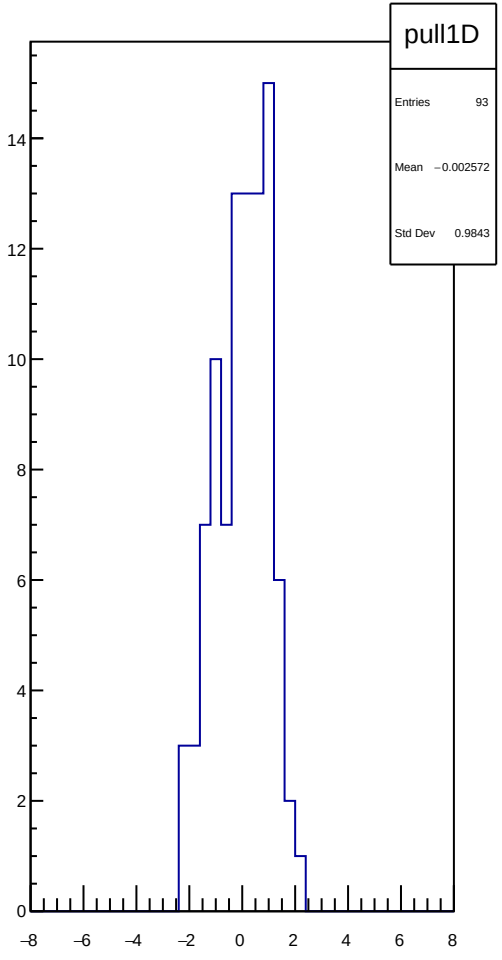

cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 1272 / 92
p0 2278 ± 1.69
2400
2350
2300
2250
2200
2150

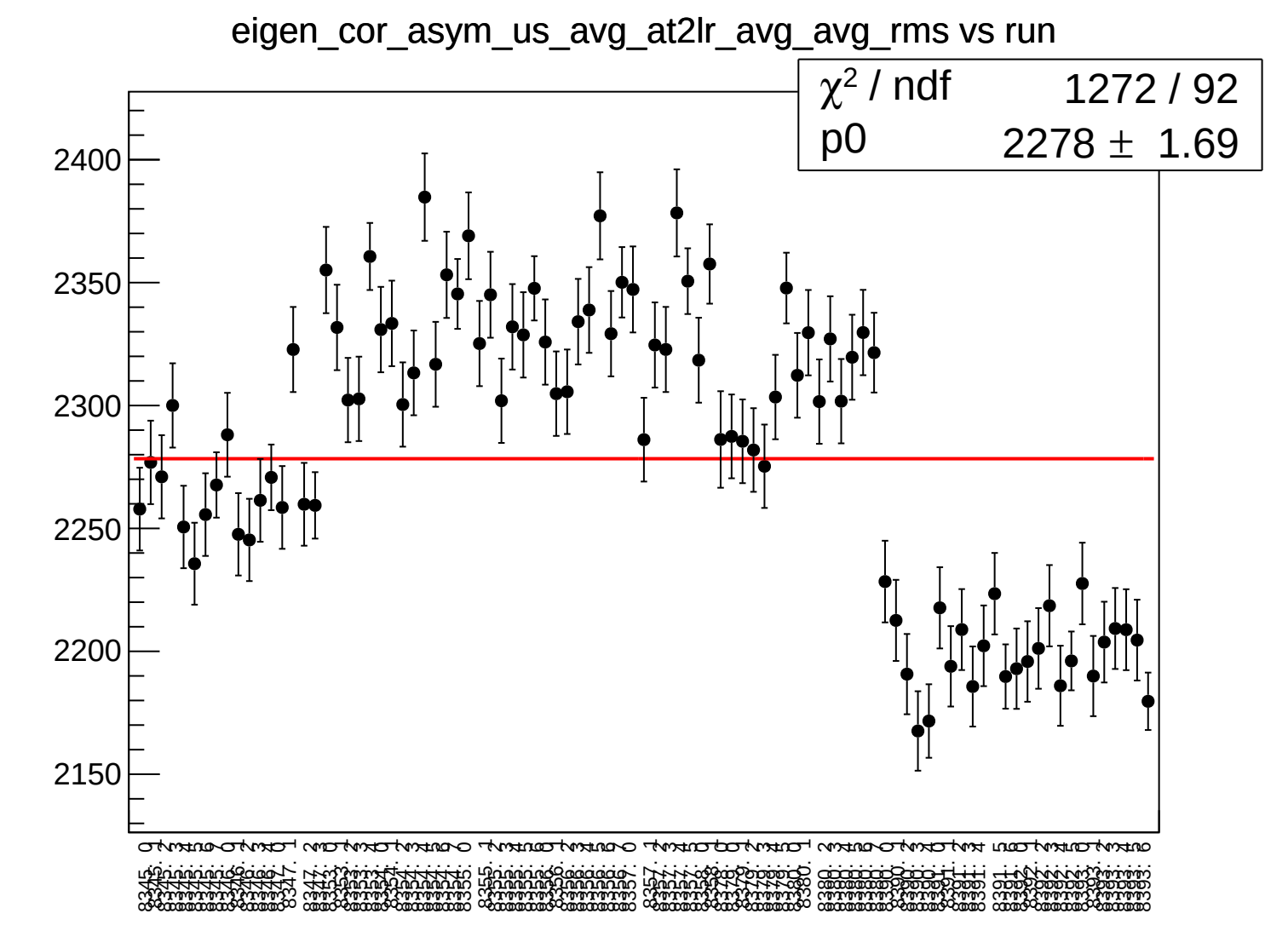

asym_us_avg_at2lr_avg_avg_cor_correction_mean vs run
×10^3
600
400
200
0
−200
−400
χ² / ndf 96.21 / 92
p0 2.516e+04 ± 1.307e+04
pull
Entries 93
Mean −157.3
Std Dev 0
3
2
1
0
−1
−2

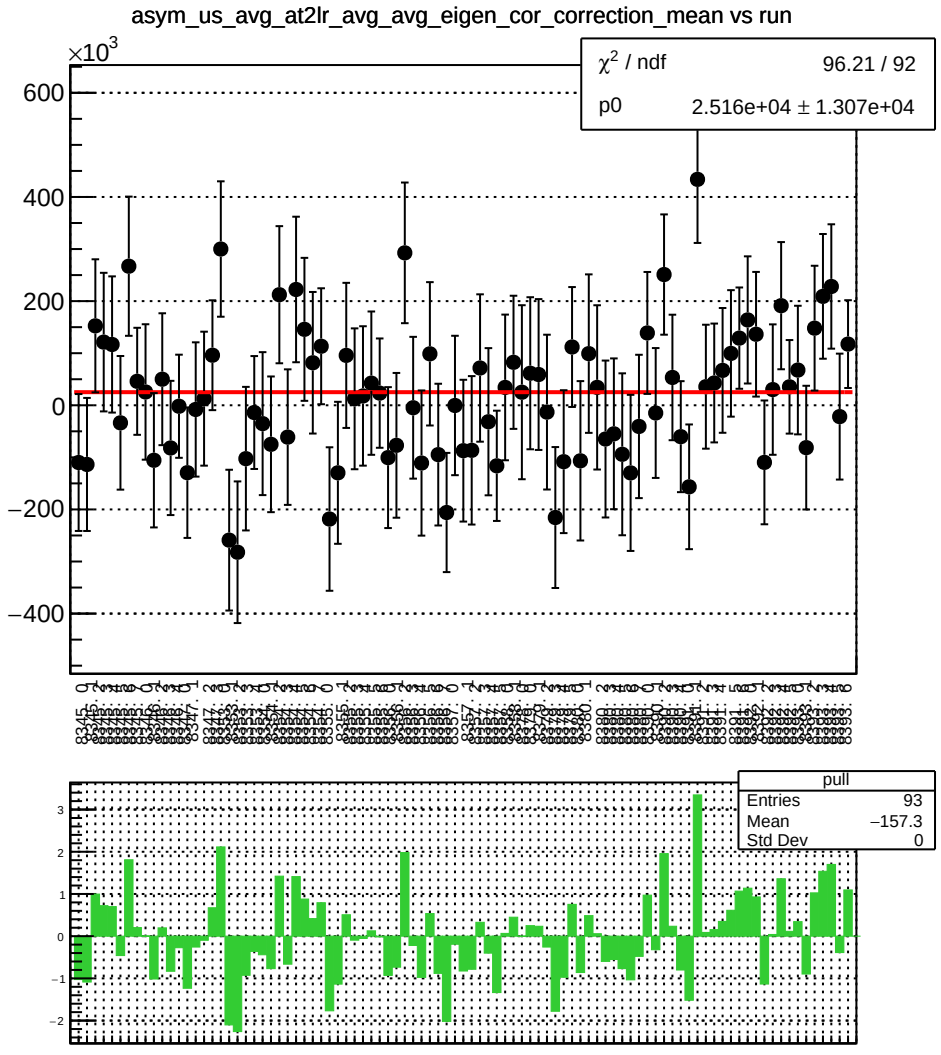

pull1D
Entries 93
Mean −0.02523
Std Dev 1.017
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

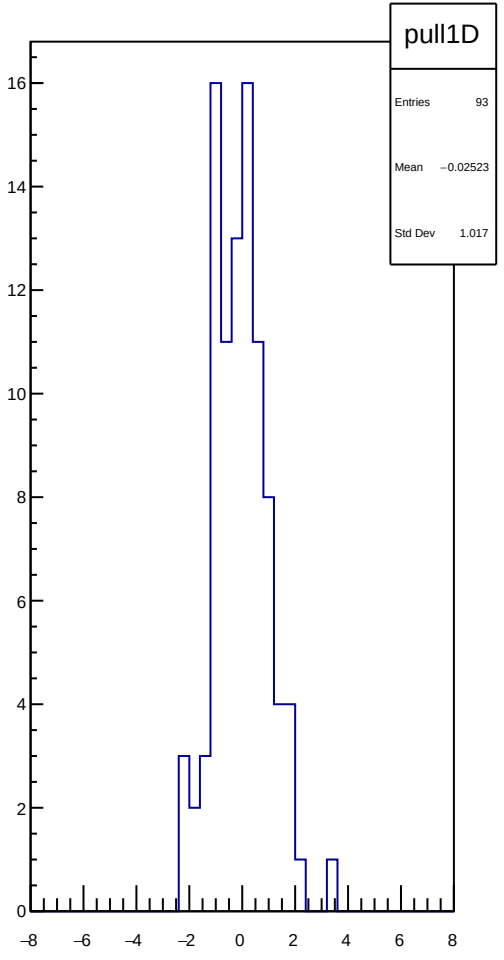

asym_us_avg_at2lr_avg_avg_cor_correction_rms vs run
χ² / ndf 9981 / 92
p0 1.243e+04 ± 9.245
15000
14000
13000
12000
11000

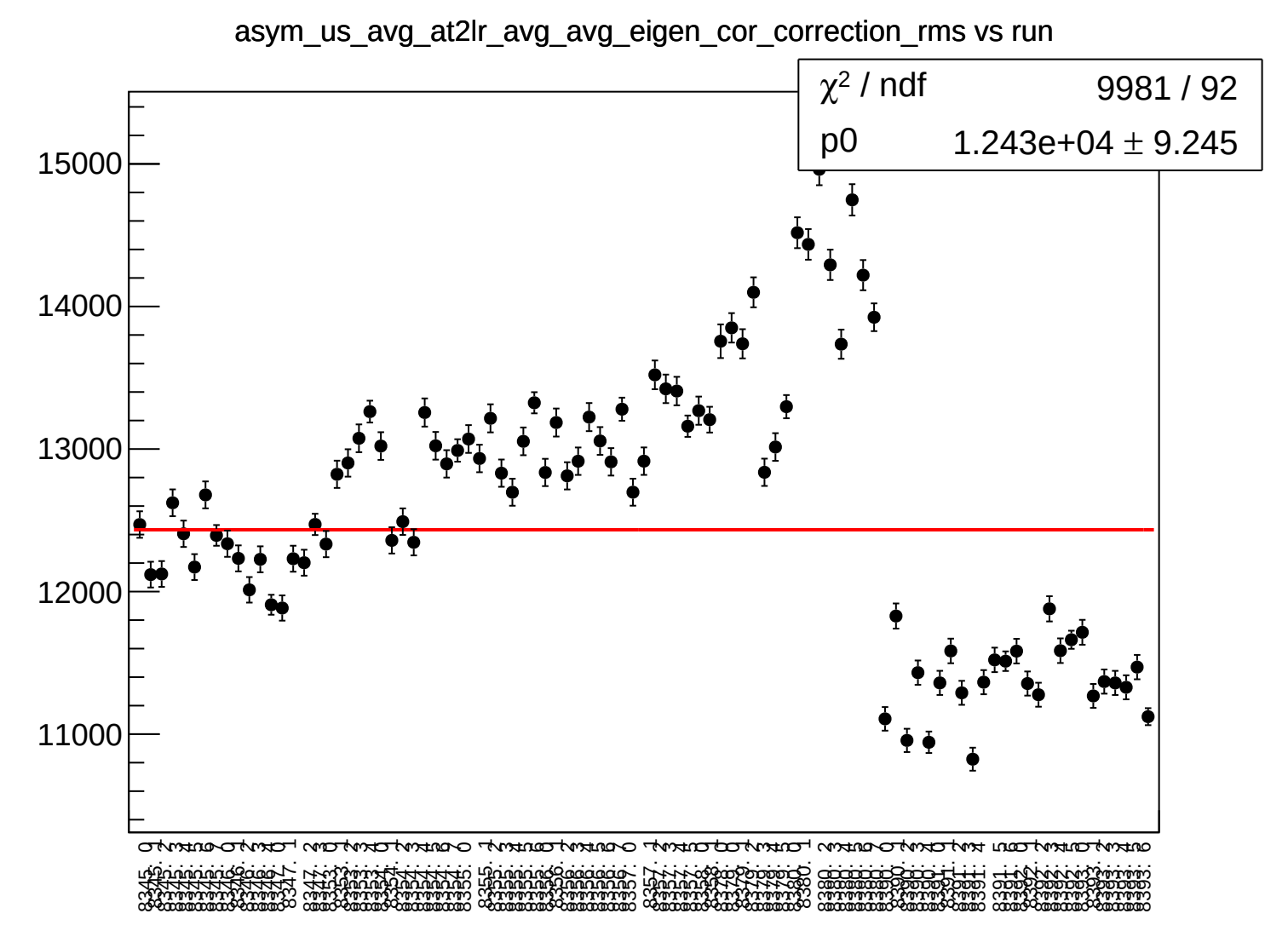

eigen_cor_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 90.1 / 92
p0 6474 ± 2390
pull
Entries 93
Mean −60.77
Std Dev 0

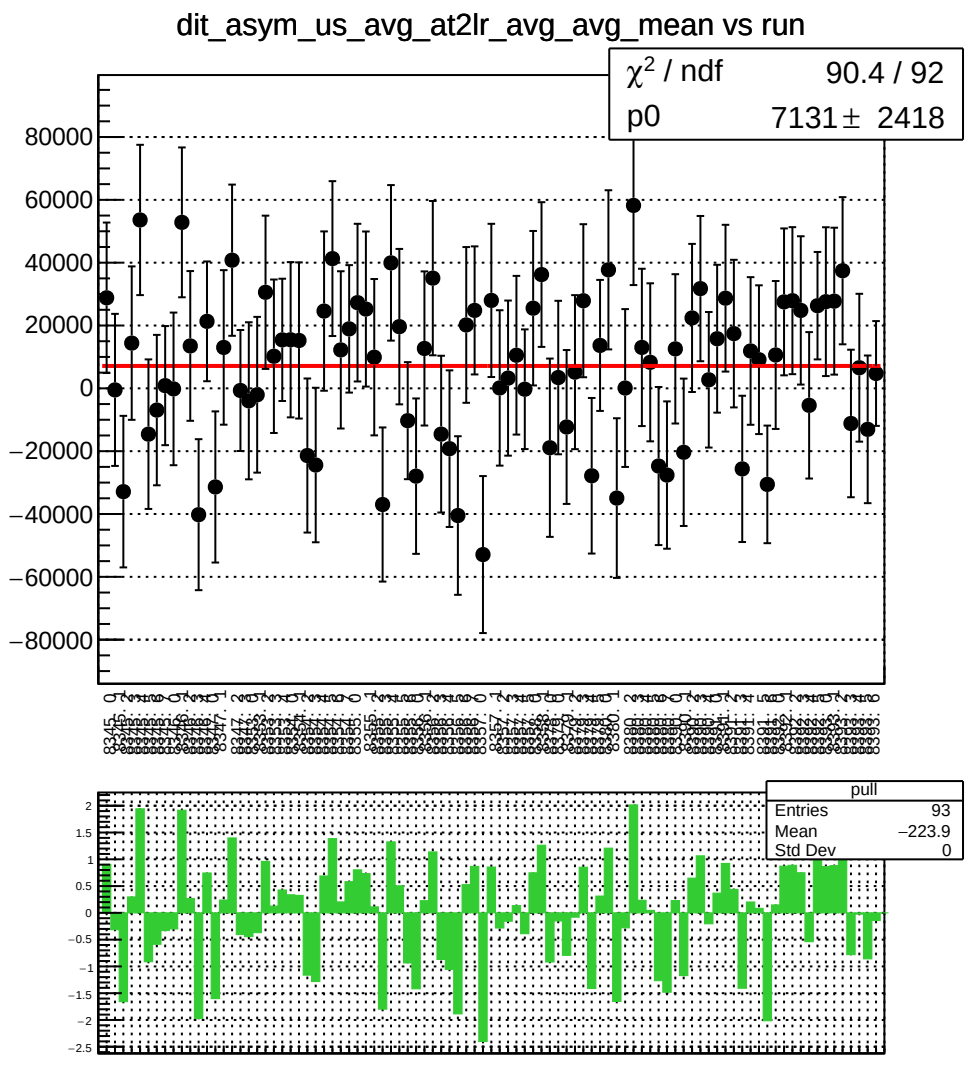

pull1D
Entries 93
Mean −0.002572
Std Dev 0.9843

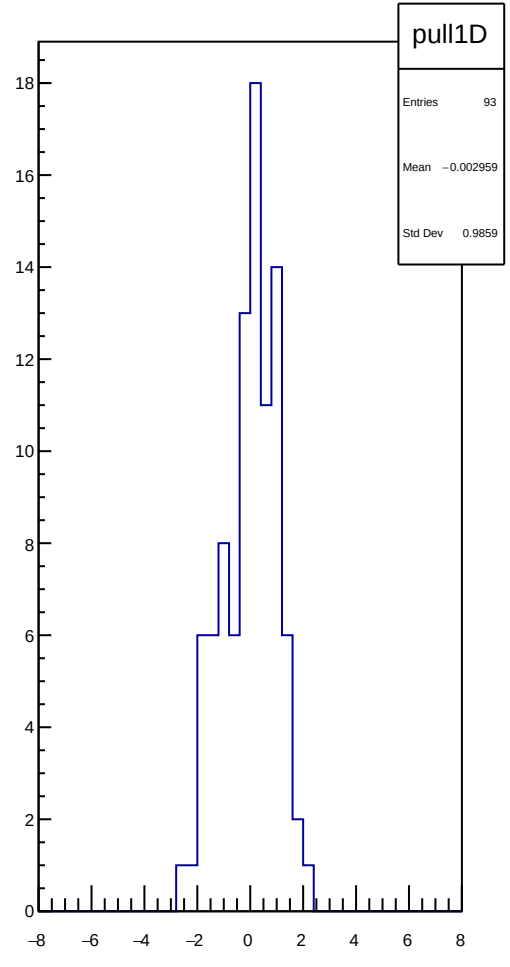

eigen_cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 1272 / 92
p0 2278 ± 1.69
2400
2350
2300
2250
2200
2150

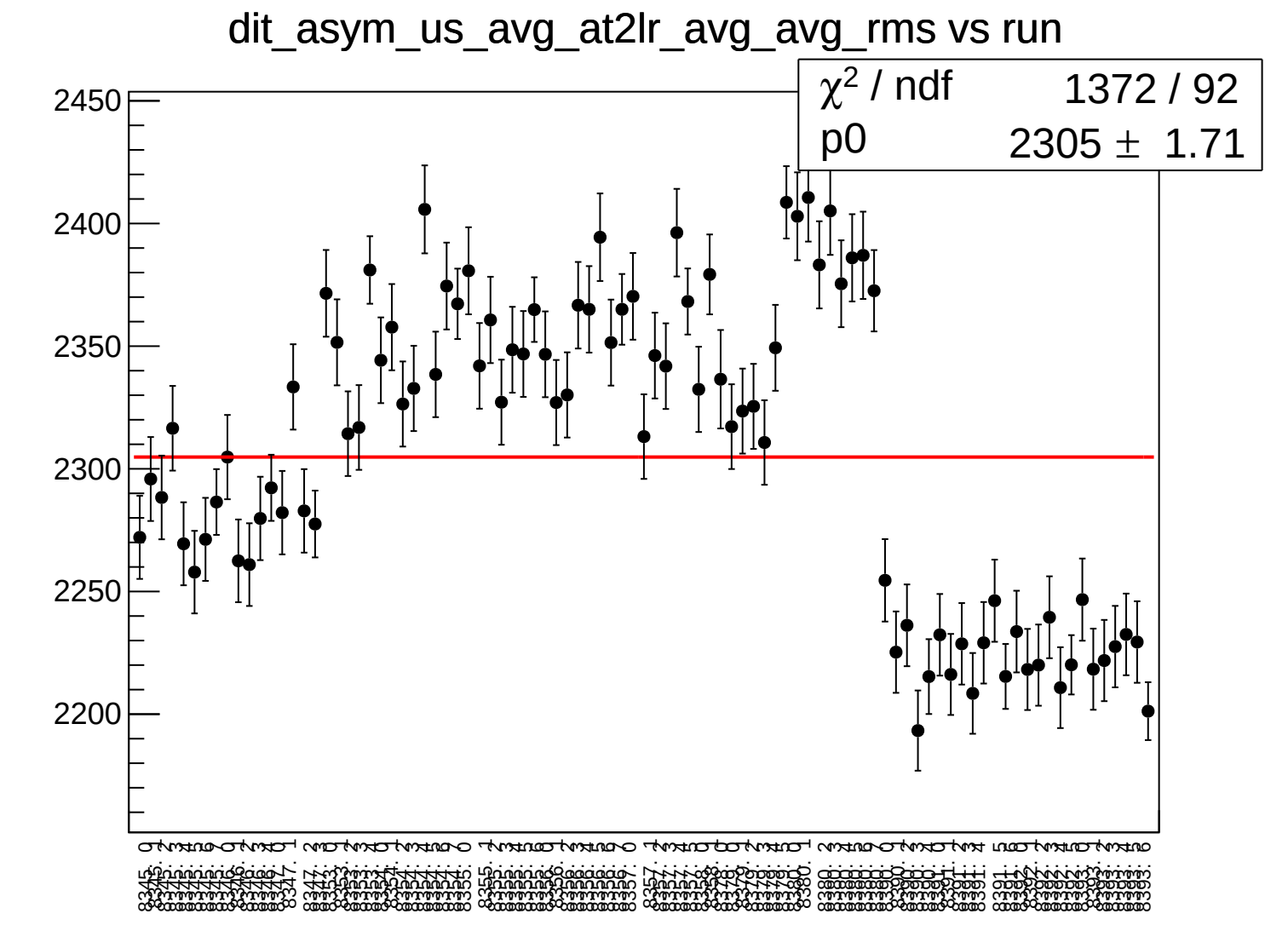

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 96.21 / 92
p0 2.516e+04 ± 1.307e+04
600
400
200
0
−200
−400
pull
Entries 93
Mean −157.3
Std Dev 0
3
2
1
0
−1
−2

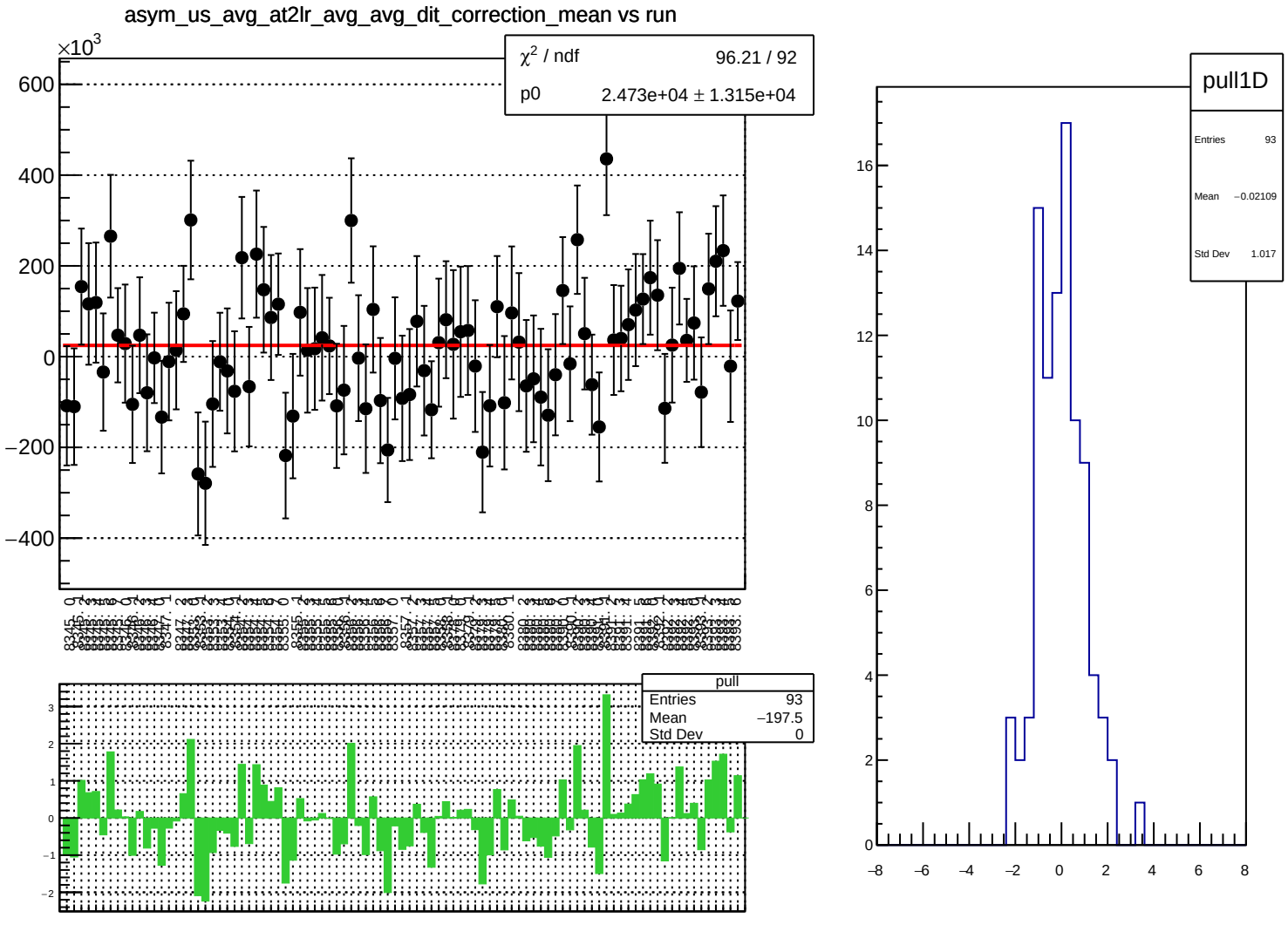

pull1D
Entries 93
Mean −0.02523
Std Dev 1.017
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

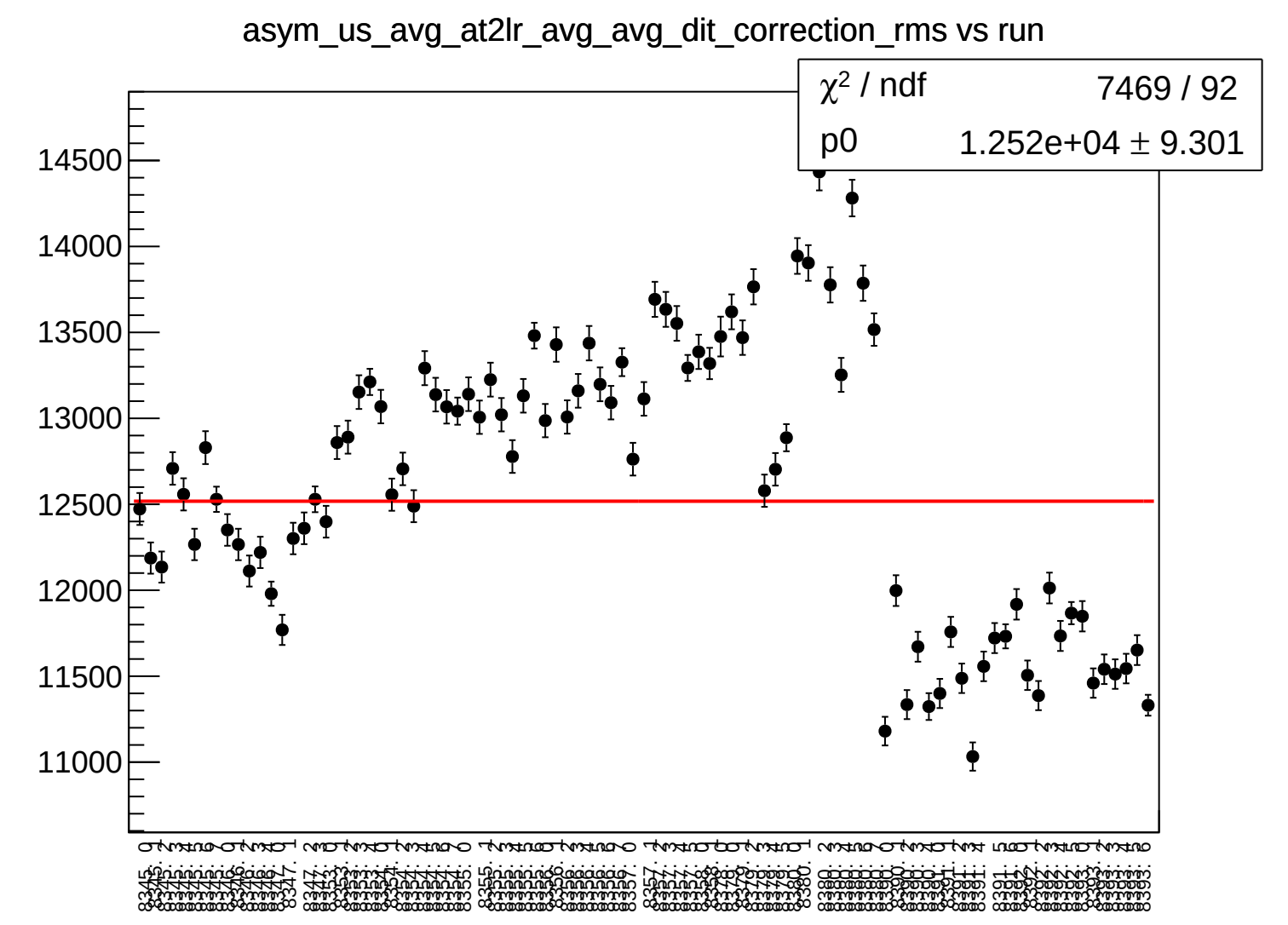

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 9981 / 92
p0 1.243e+04 ± 9.245
15000
14000
13000
12000
11000

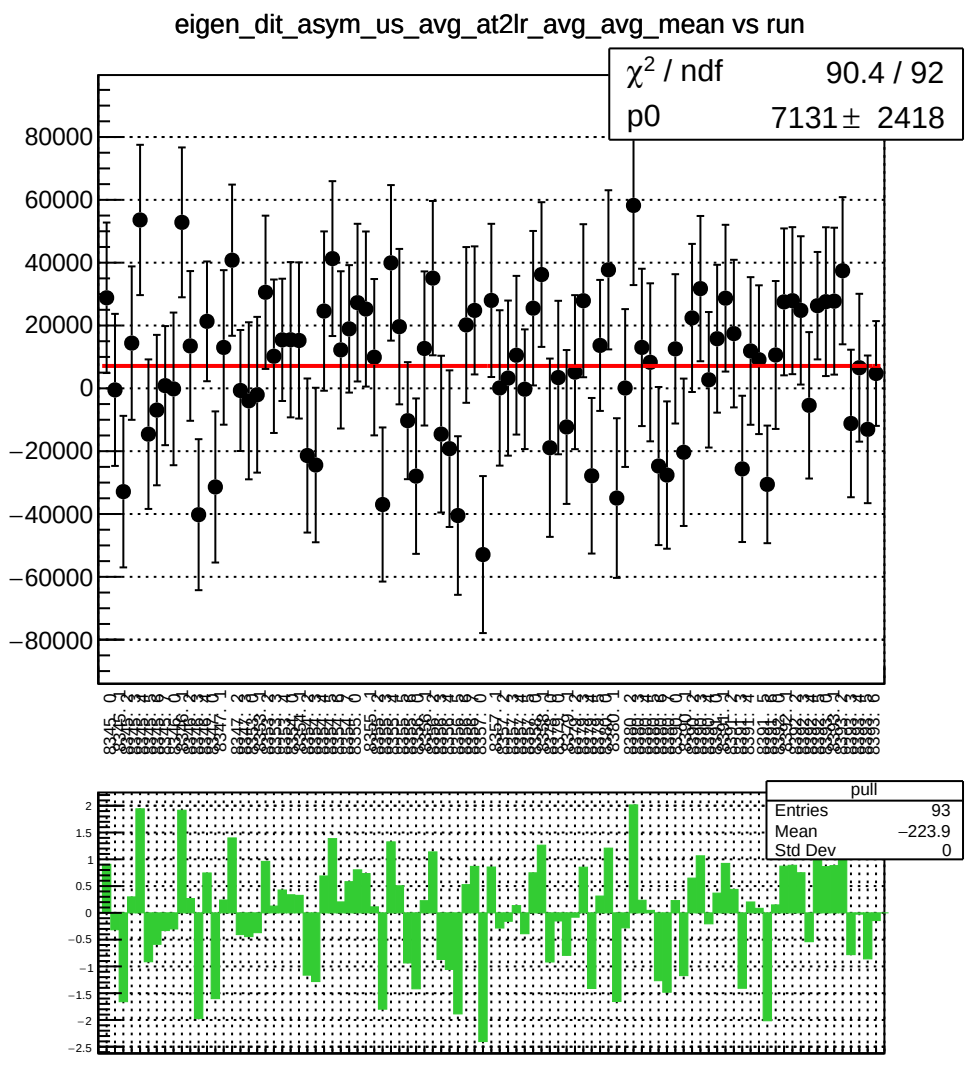

dit_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 90.4 / 92
p0 7131 ± 2418
pull
Entries 93
Mean −223.9
Std Dev 0

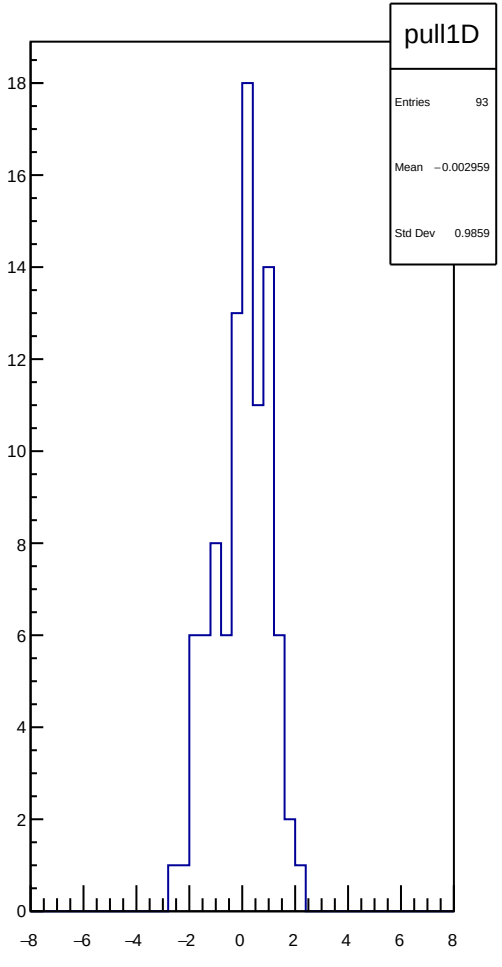

pull1D
Entries 93
Mean −0.002959
Std Dev 0.9859

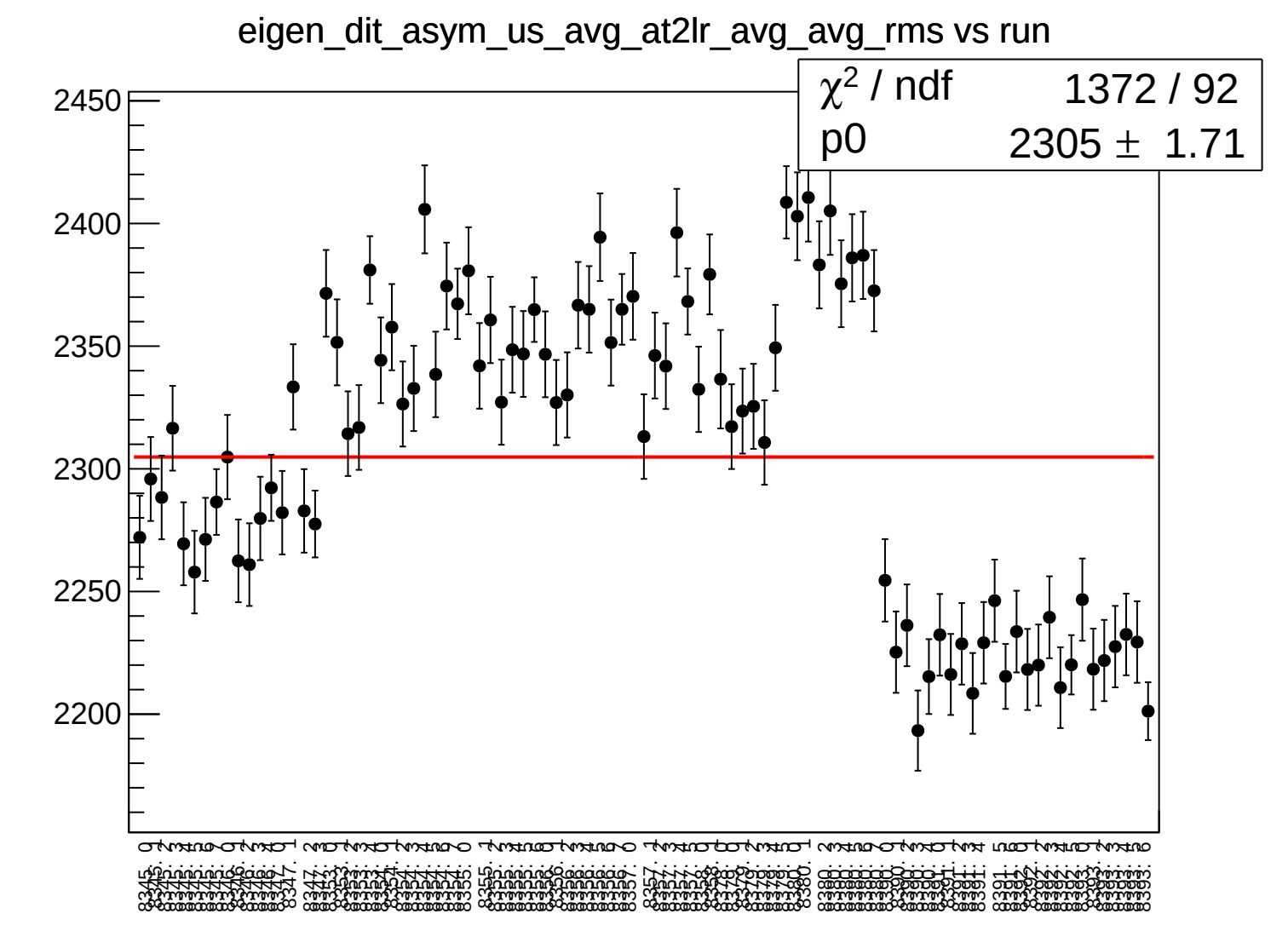

dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 1372 / 92
p0 2305 ± 1.71
2450
2400
2350
2300
2250
2200

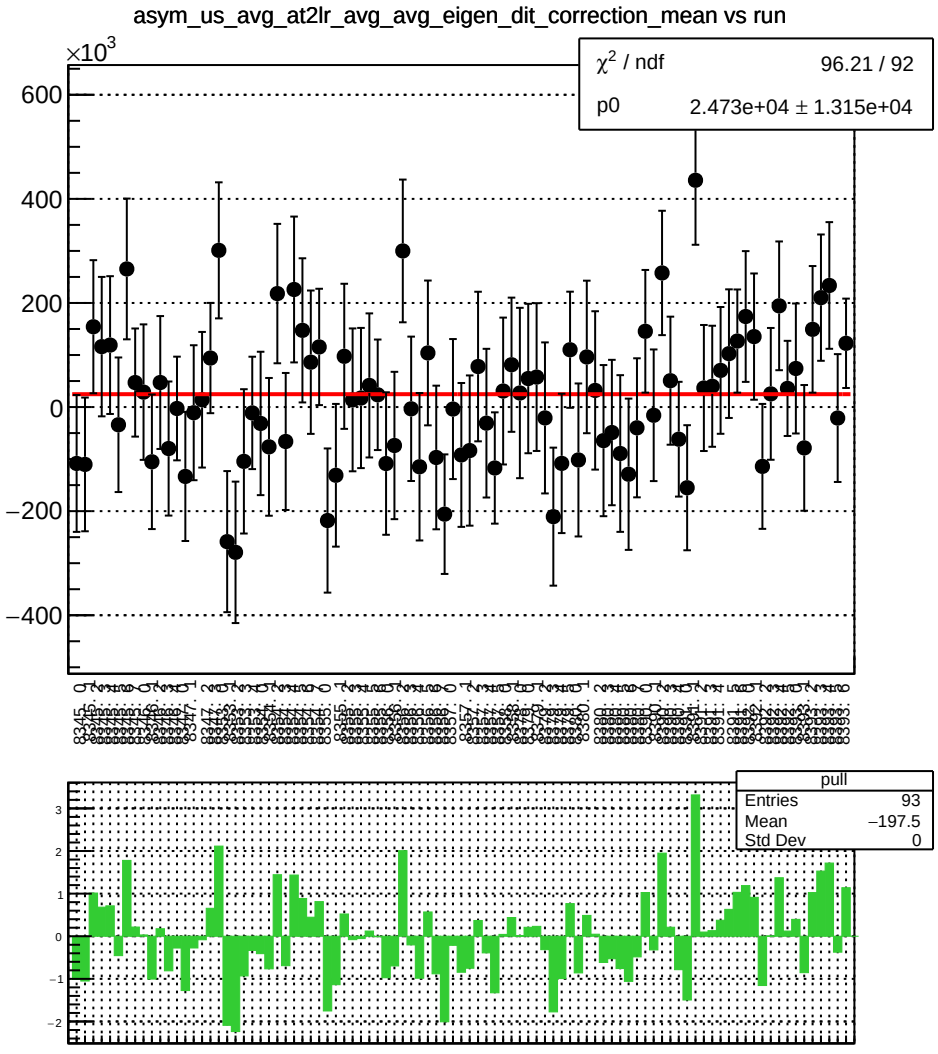

asym_us_avg_at2lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 96.21 / 92
p0 2.473e+04 ± 1.315e+04
pull
Entries 93
Mean −197.5
Std Dev 0
pull1D
Entries 93
Mean −0.02109
Std Dev 1.017

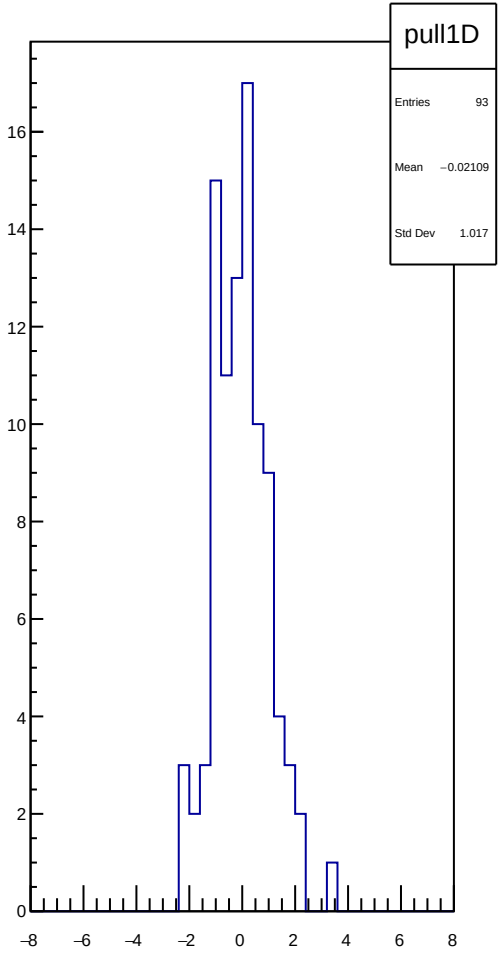

asym_us_avg_at2lr_avg_avg_dit_correction_rms vs run
χ² / ndf 7469 / 92
p0 1.252e+04 ± 9.301
14500
14000
13500
13000
12500
12000
11500
11000

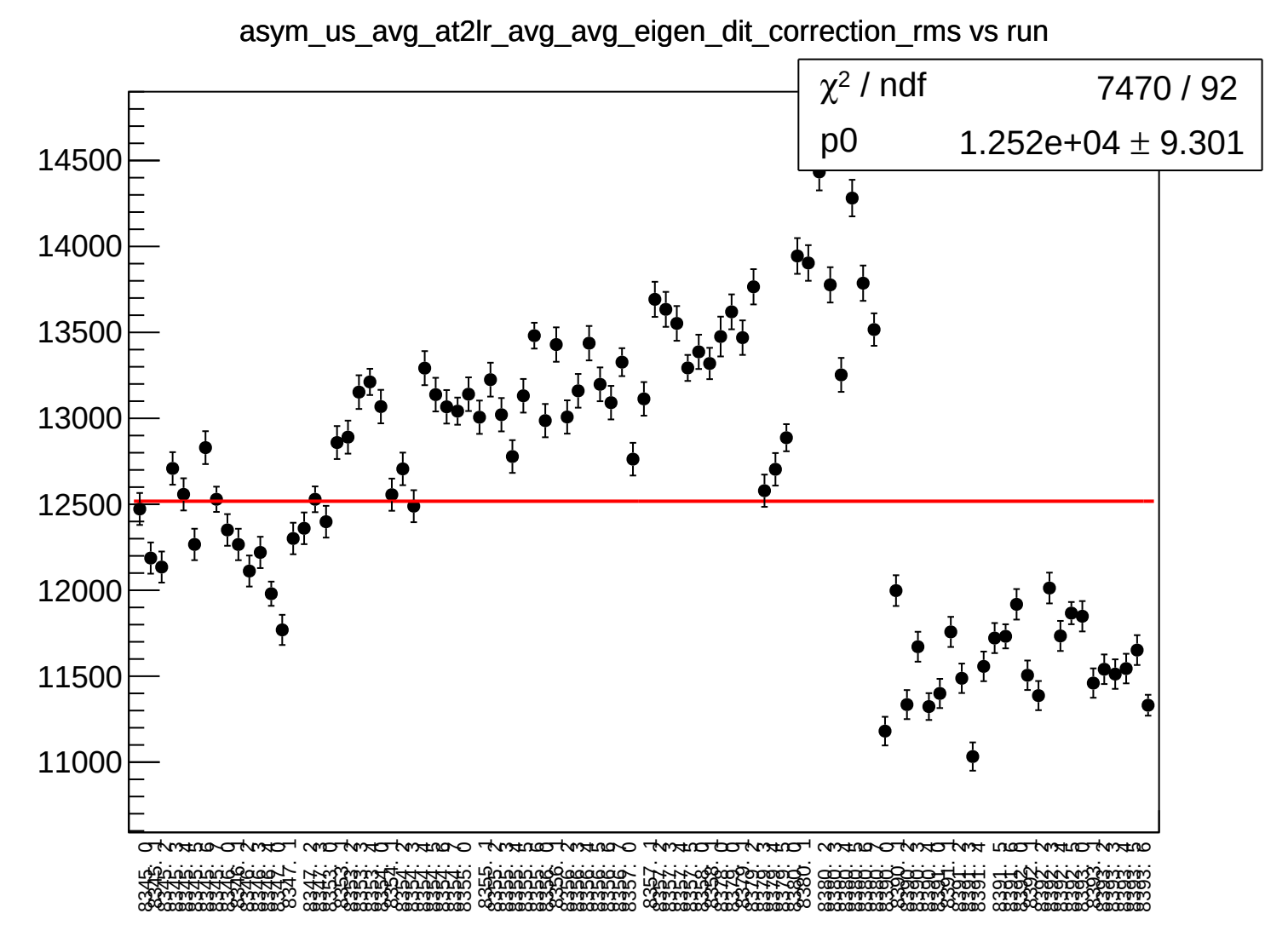

eigen_dit_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 90.4 / 92
p0 7131 ± 2418
pull
Entries 93
Mean −223.9
Std Dev 0

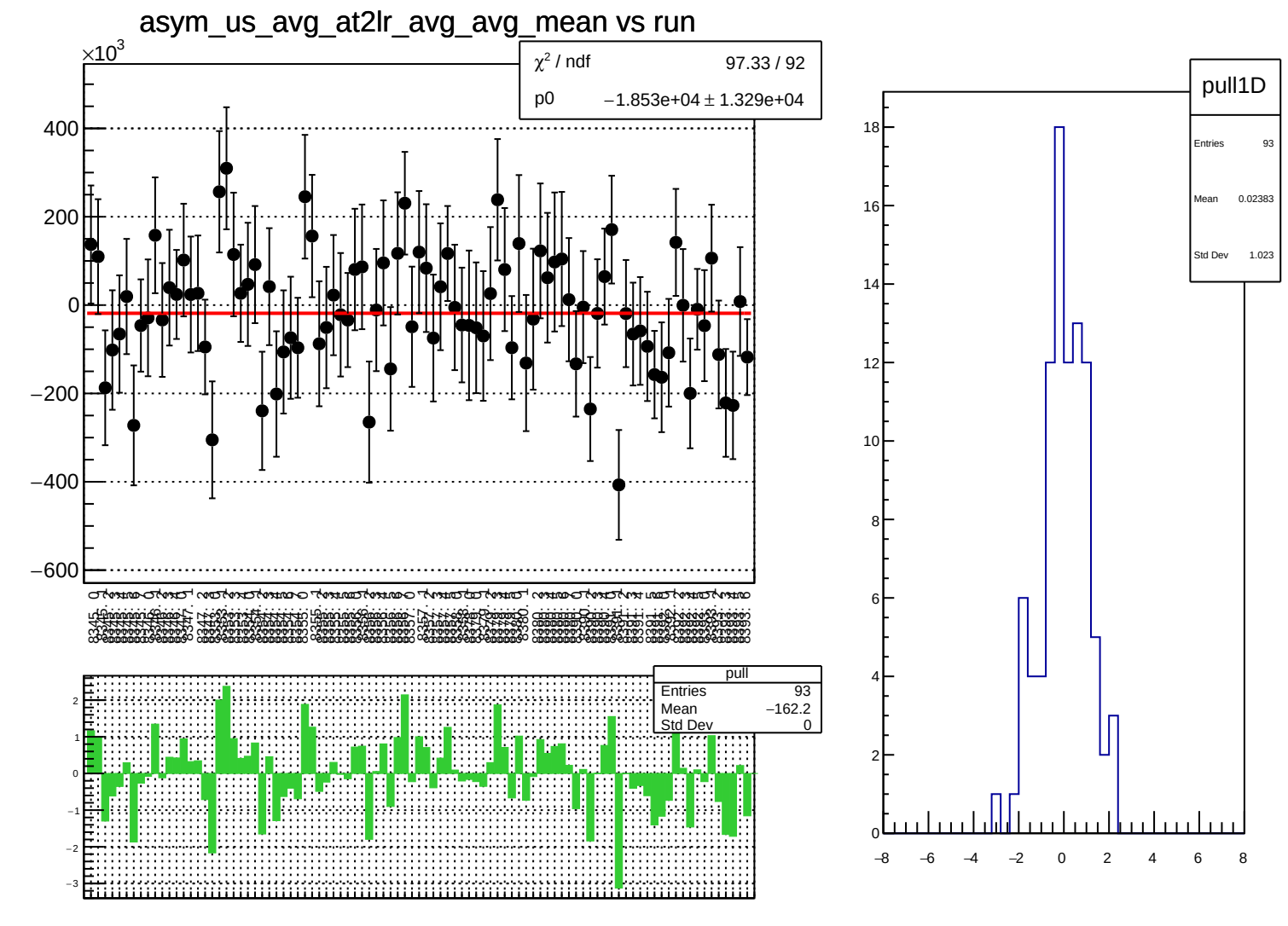

pull1D
Entries 93
Mean −0.002959
Std Dev 0.9859

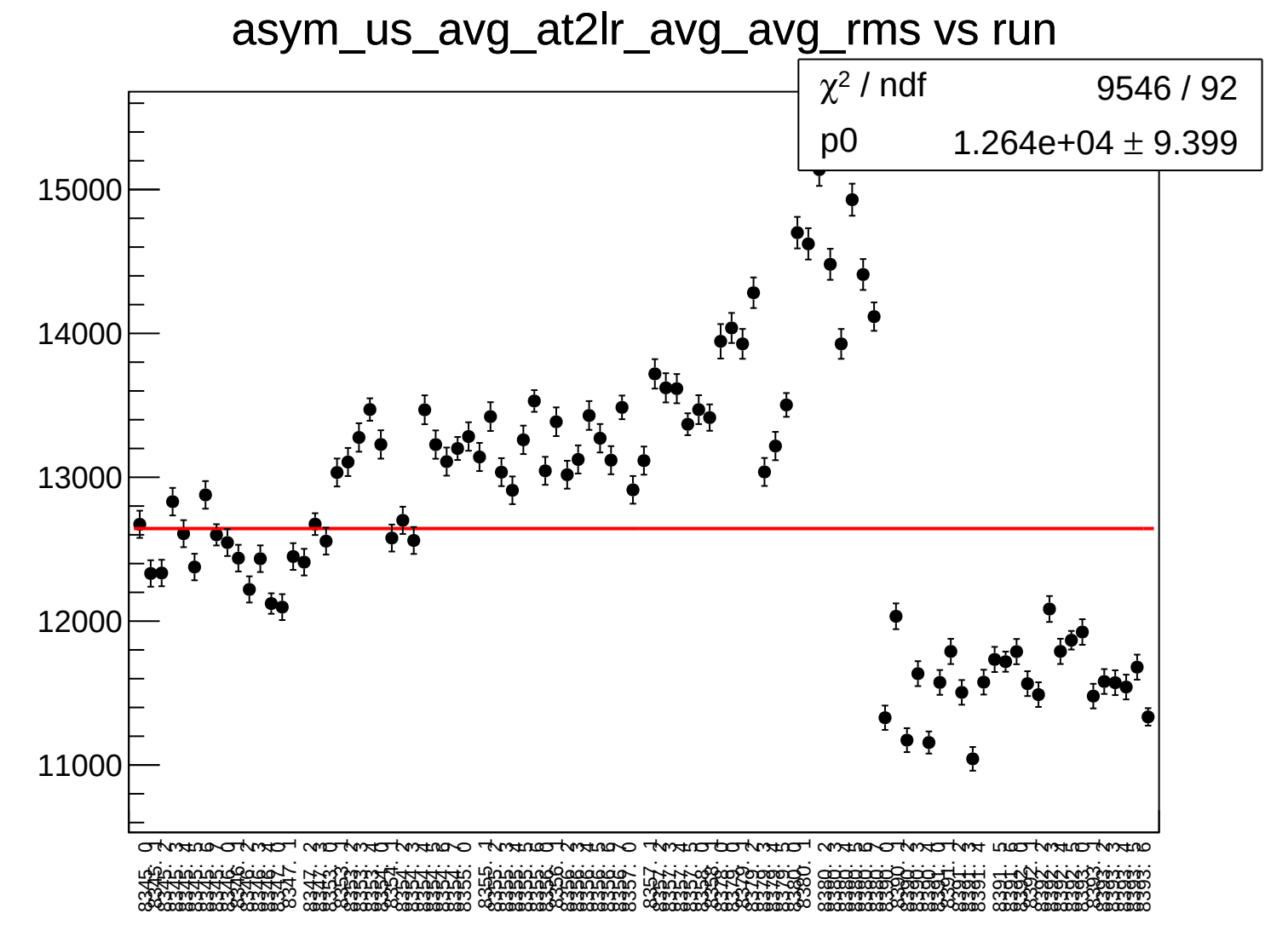

eigen_dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 1372 / 92
p0 2305 ± 1.71
2450
2400
2350
2300
2250
2200

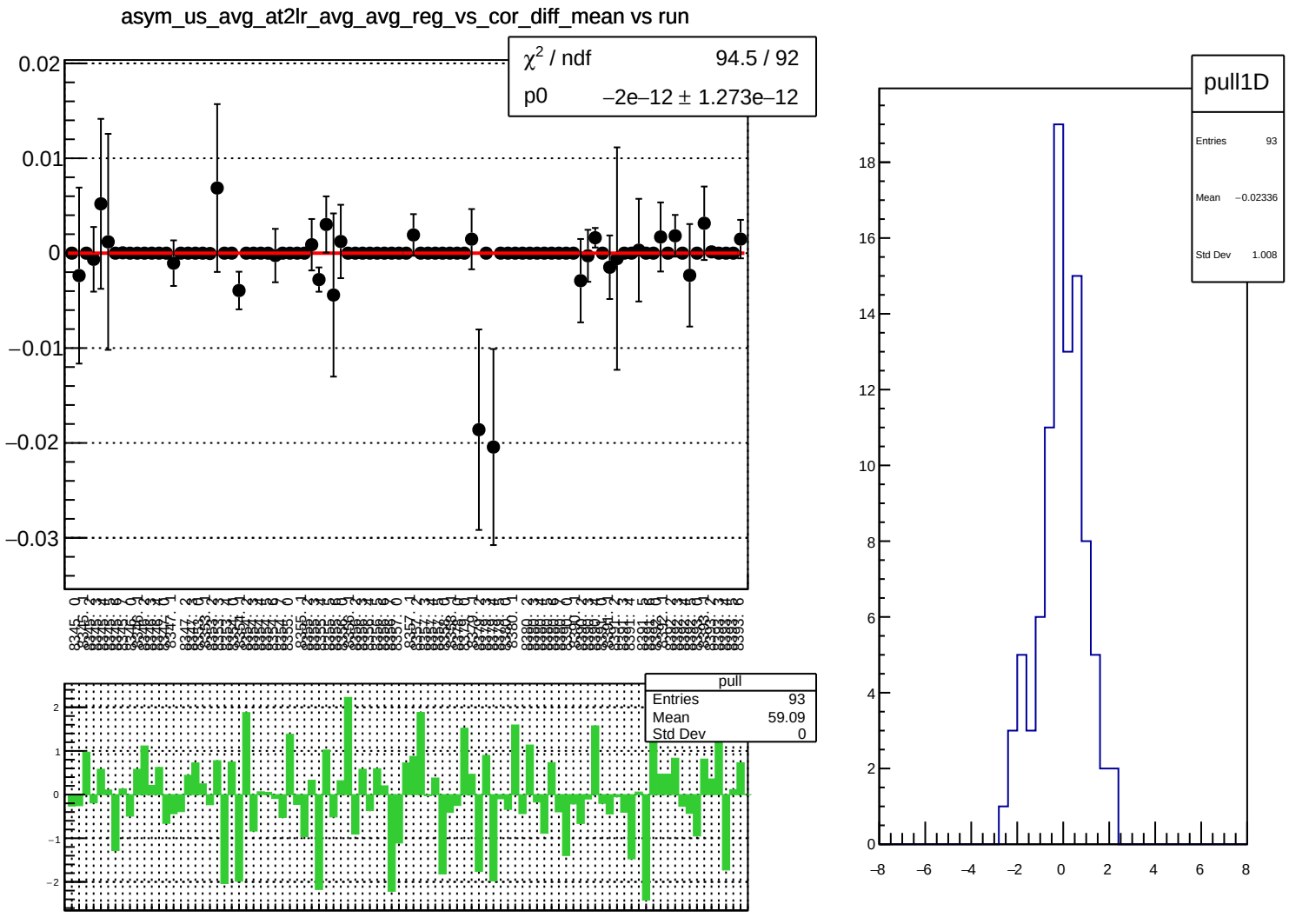

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 96.21 / 92
p0 2.473e+04 ± 1.315e+04
pull
Entries 93
Mean −197.5
Std Dev 0

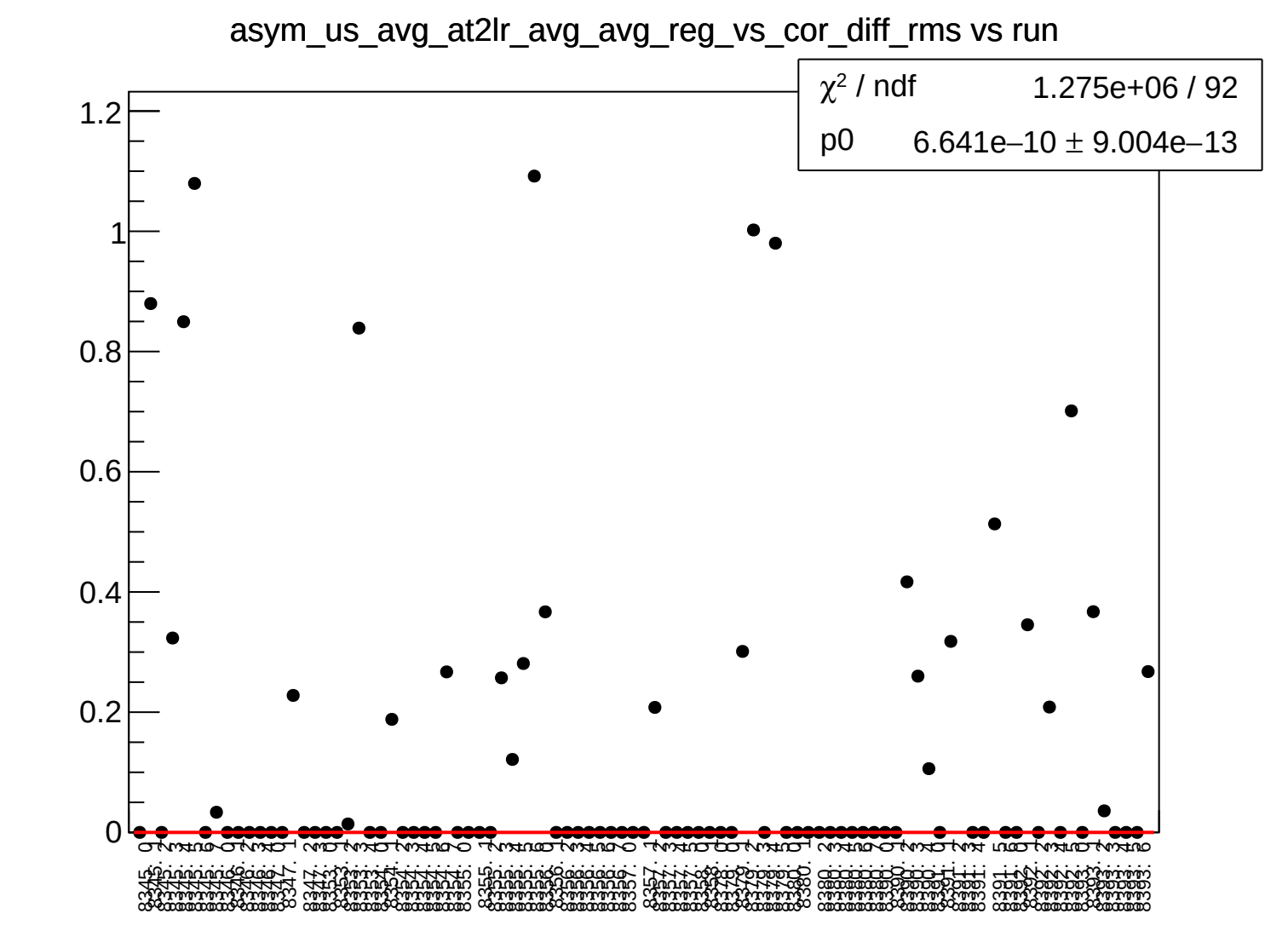

pull1D
Entries 93
Mean −0.02109
Std Dev 1.017

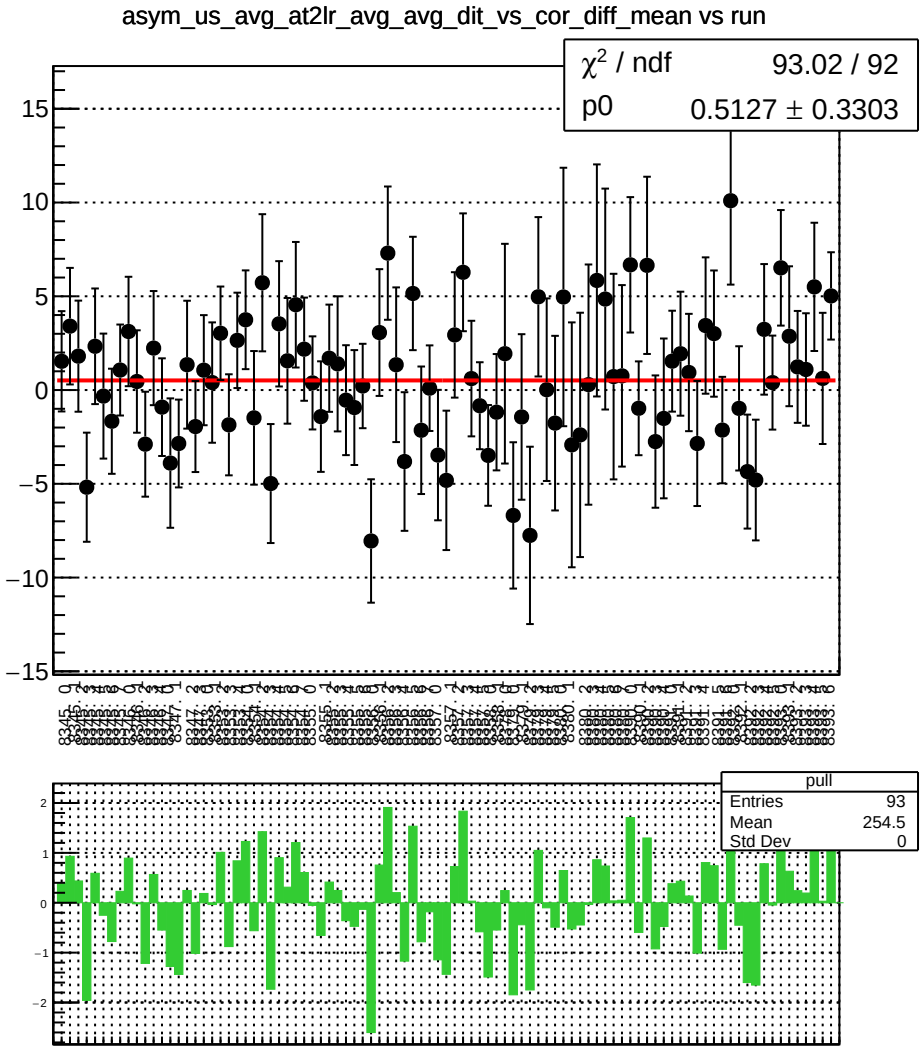

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 7470 / 92
p0 1.252e+04 ± 9.301
14500
14000
13500
13000
12500
12000
11500
11000

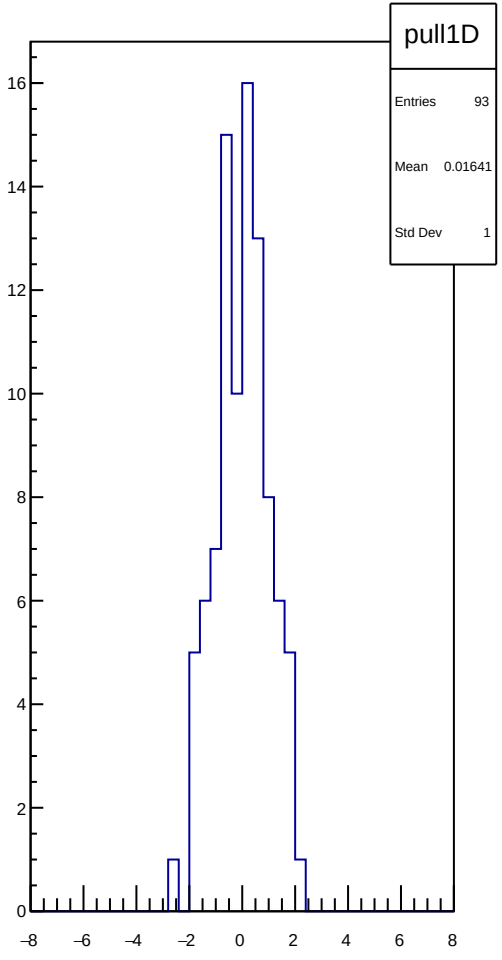

asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 97.33 / 92
p0 −1.853e+04 ± 1.329e+04
400
200
0
−200
−400
−600
pull
Entries 93
Mean −162.2
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.02383
Std Dev 1.023
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

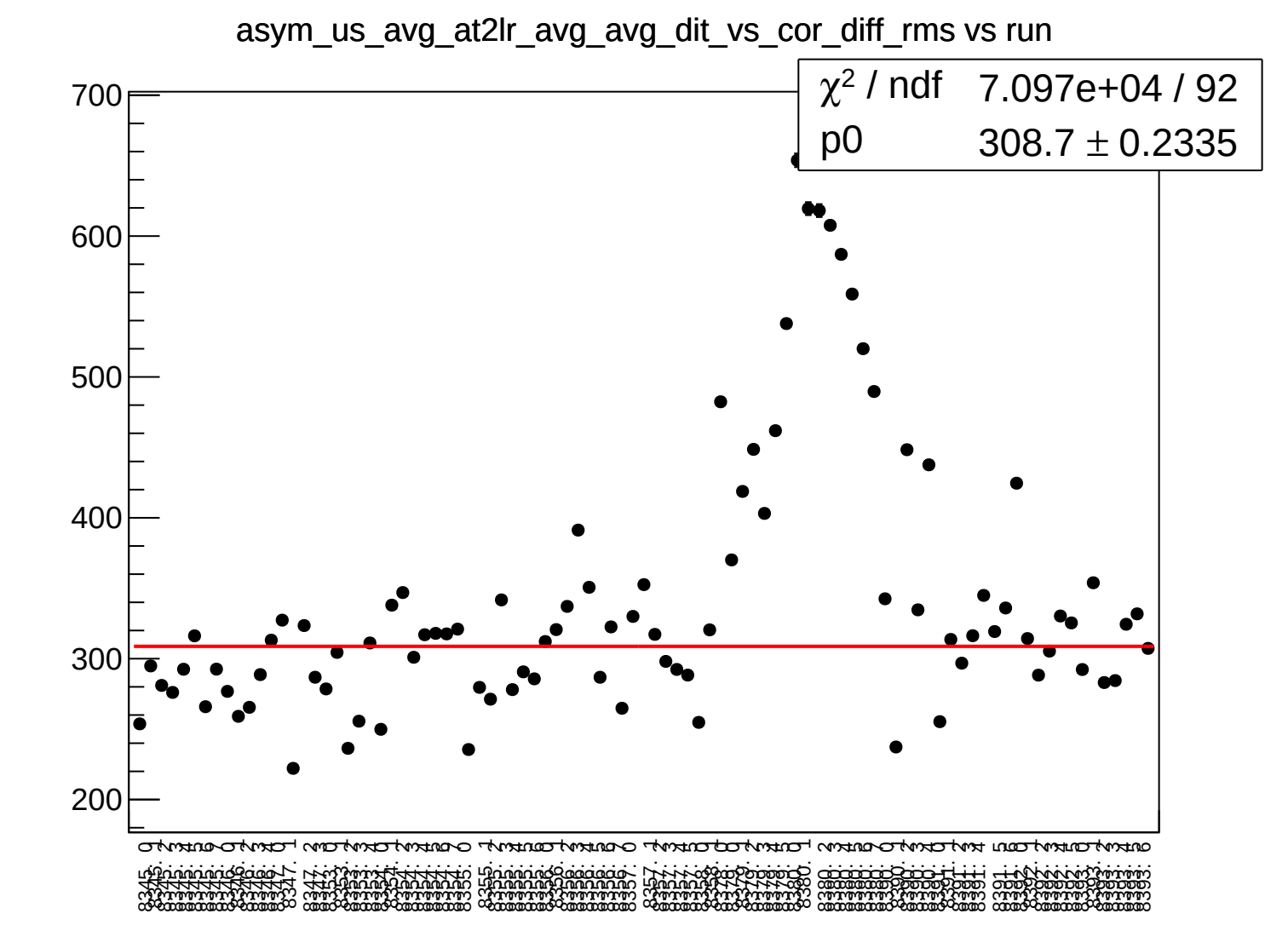

asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 9546 / 92
p0 1.264e+04 ± 9.399
15000
14000
13000
12000
11000

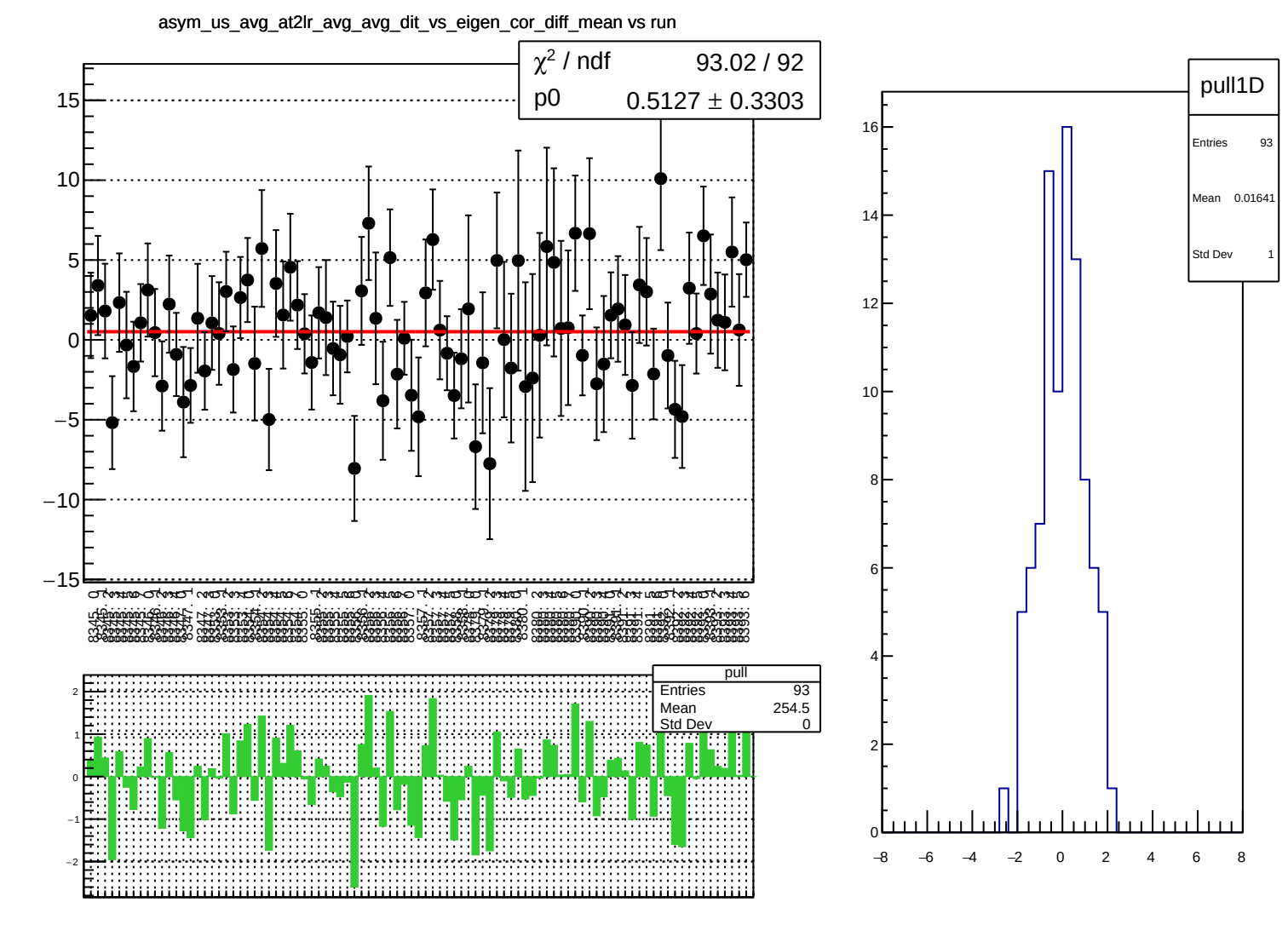

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 94.5 / 92
p0 −2e−12 ± 1.273e−12
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 93
Mean 59.09
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.02336
Std Dev 1.008
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

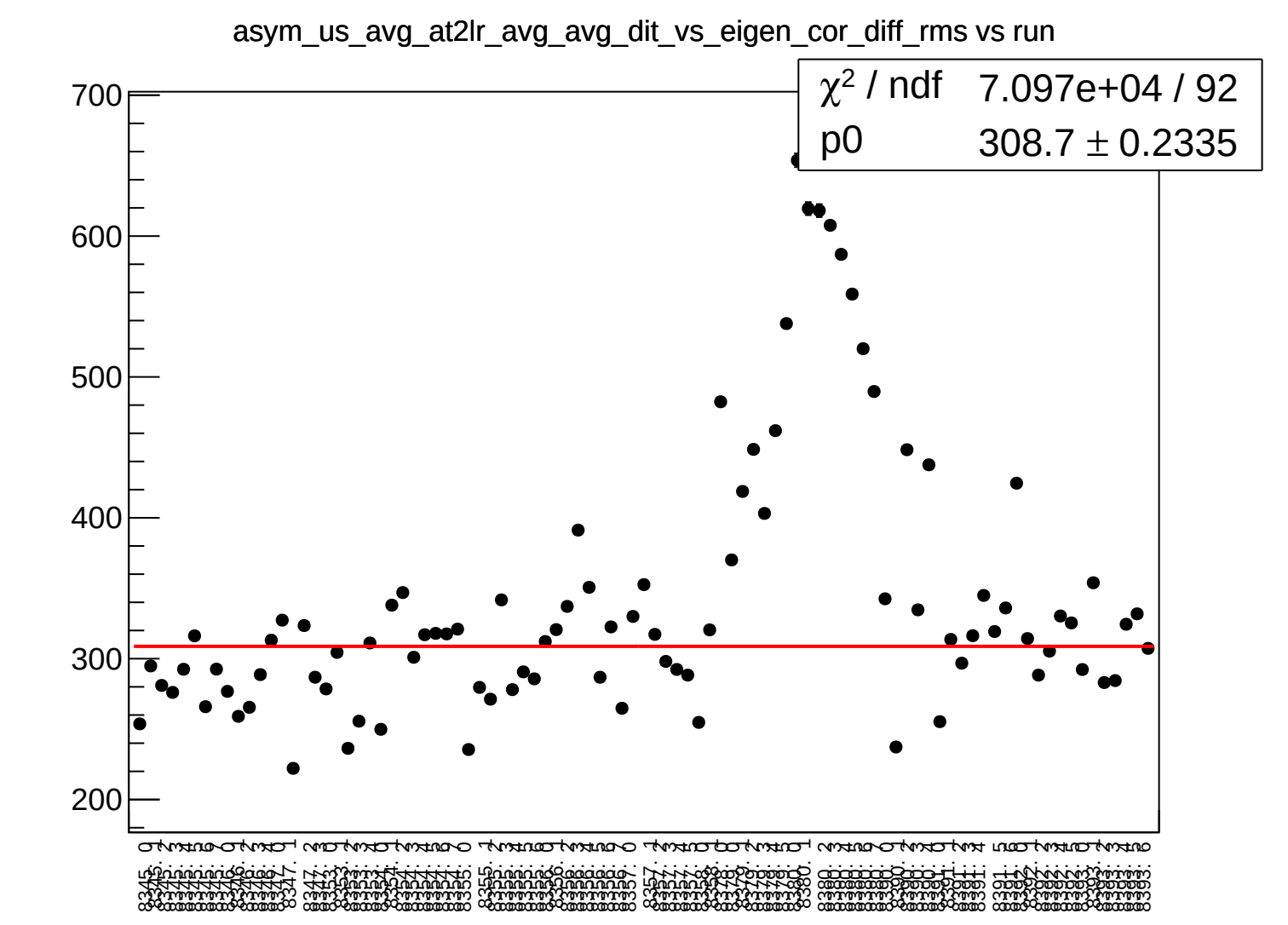

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.275e+06 / 92
p0 6.641e−10 ± 9.004e−13
1.2
1
0.8
0.6
0.4
0.2
0

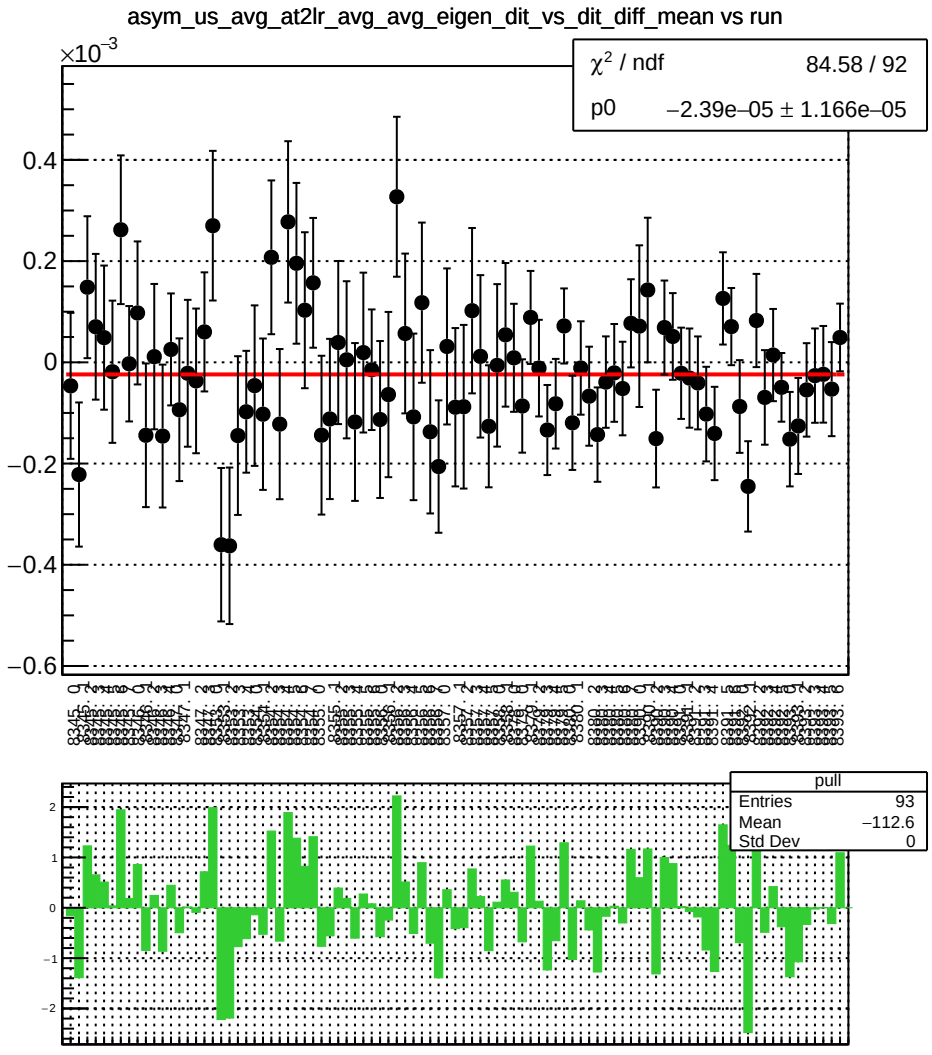

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 93.02 / 92
p0 0.5127 ± 0.3303
pull
Entries 93
Mean 254.5
Std Dev 0

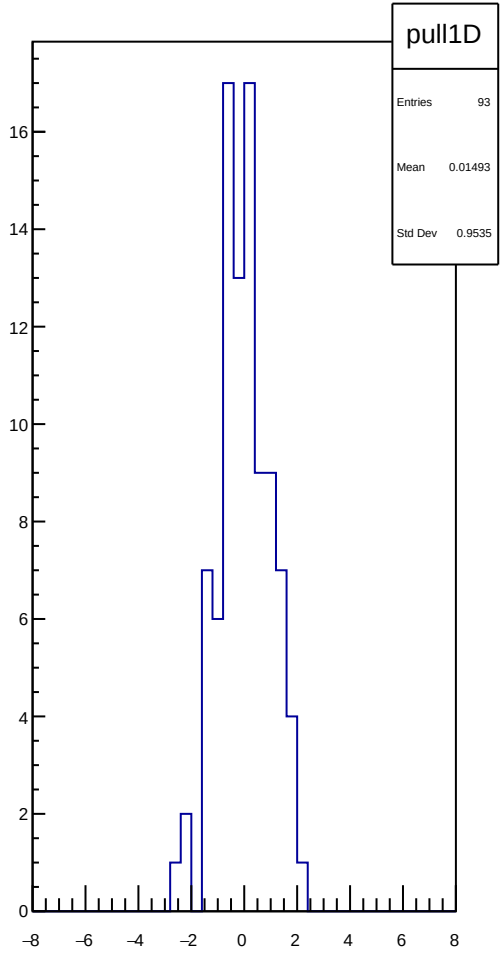

pull1D
Entries 93
Mean 0.01641
Std Dev 1

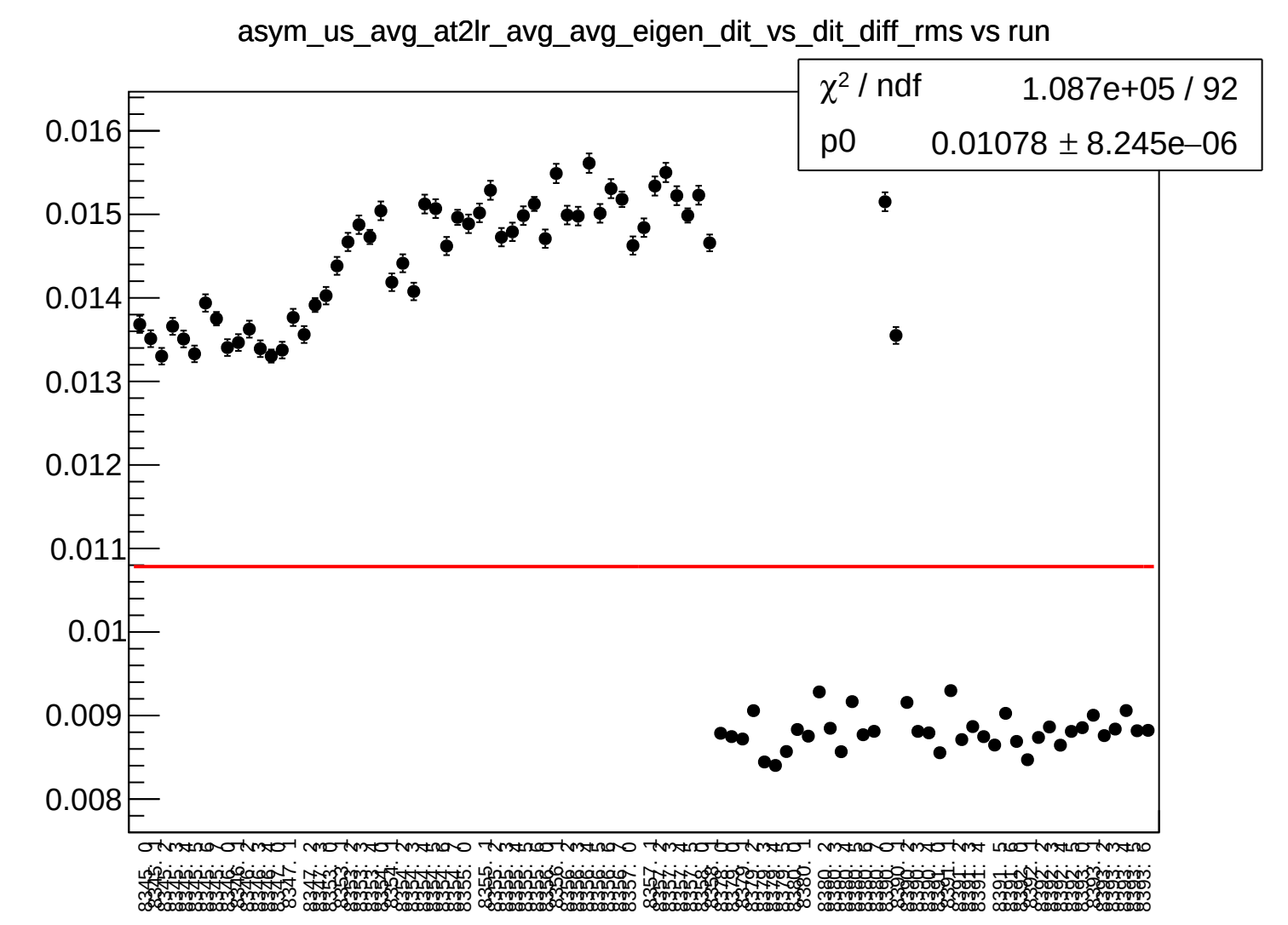

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.097e+04 / 92
p0 308.7 ± 0.2335
700
600
500
400
300
200

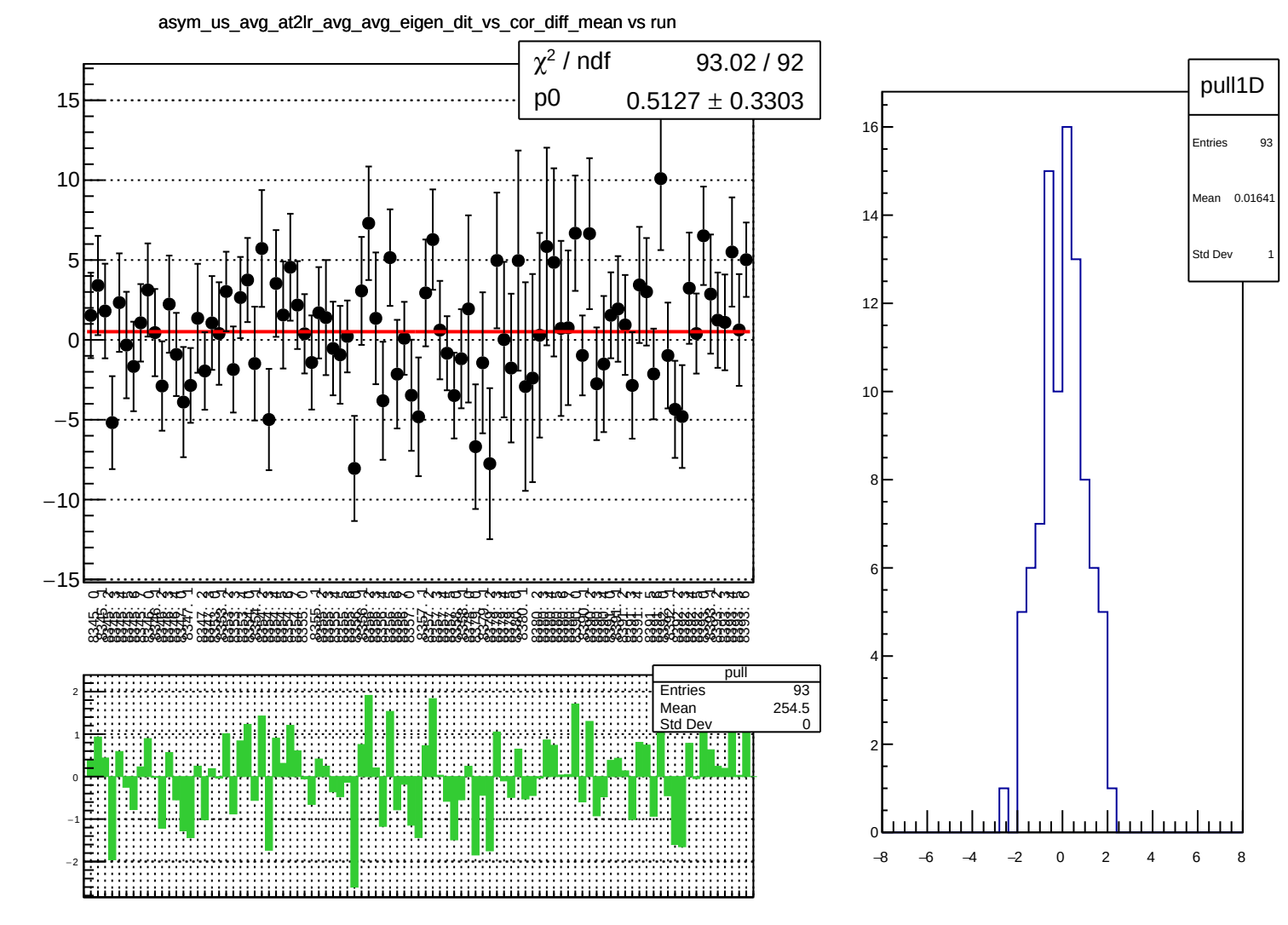

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.02 / 92
p0 0.5127 ± 0.3303
pull
Entries 93
Mean 254.5
Std Dev 0
pull1D
Entries 93
Mean 0.01641
Std Dev 1

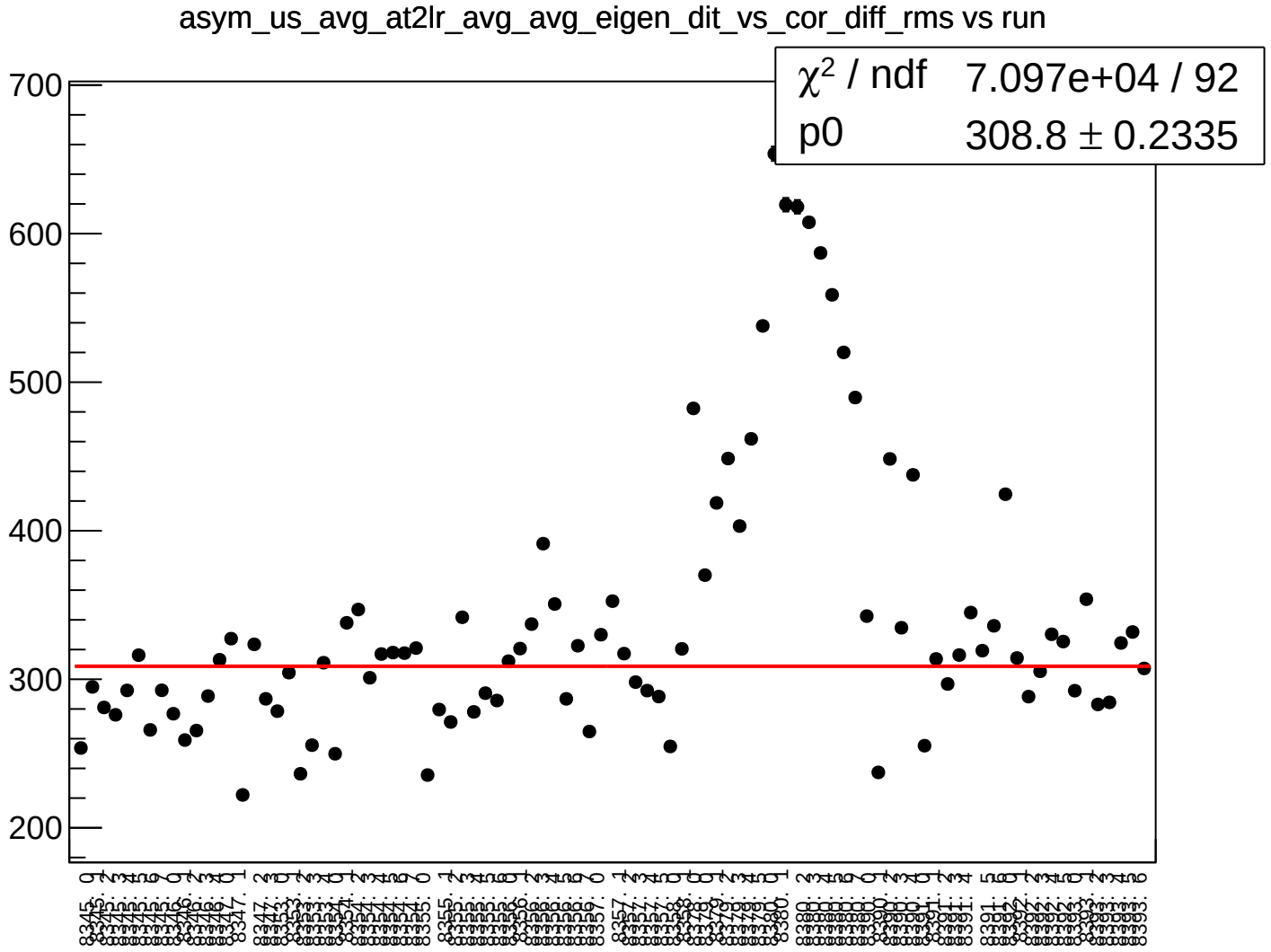

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.097e+04 / 92
p0 308.7 ± 0.2335
700
600
500
400
300
200

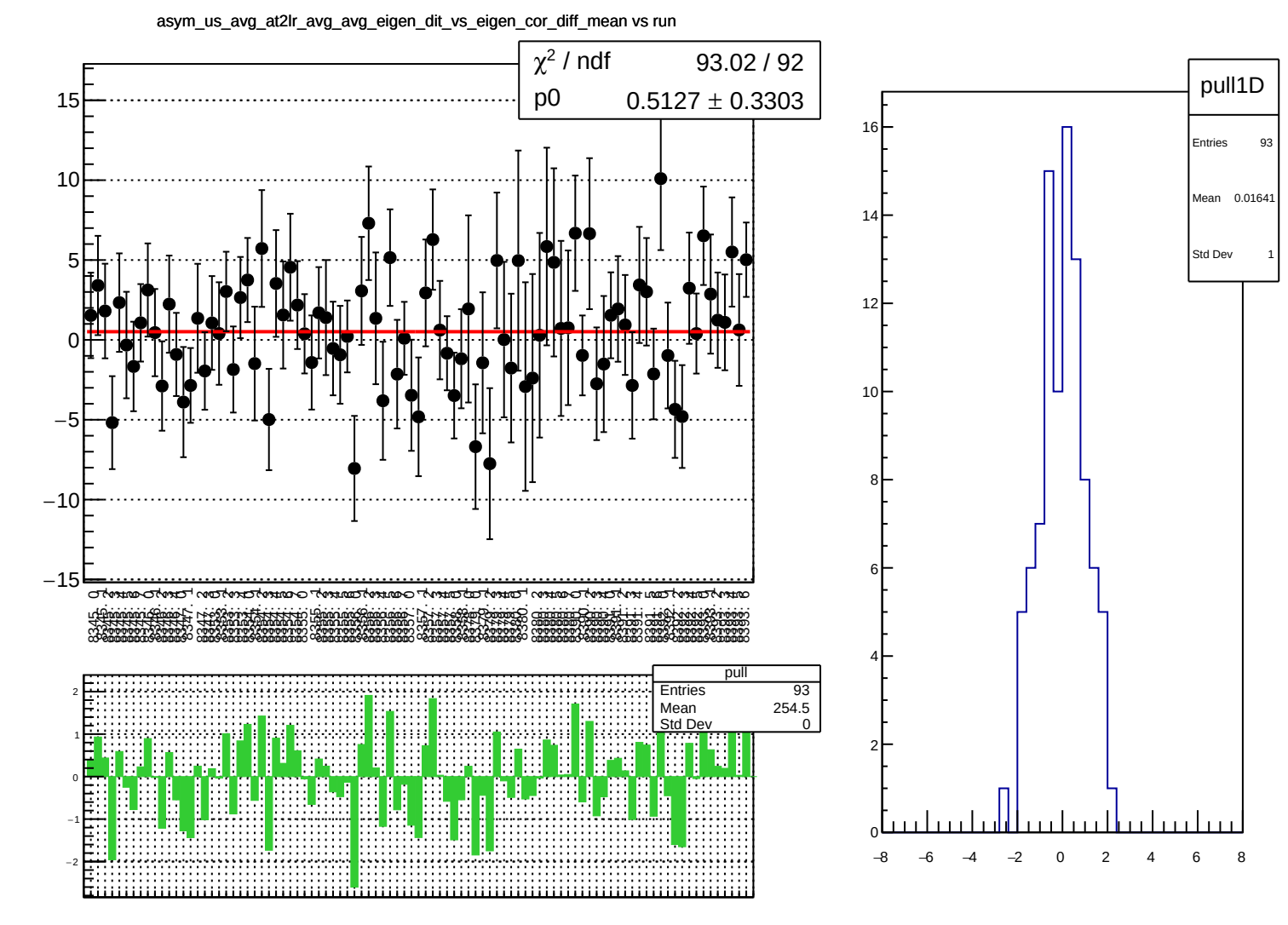

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.58 / 92
p0 −2.39e−05 ± 1.166e−05
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 93
Mean −112.6
Std Dev 0
2
1
0
−1
−2

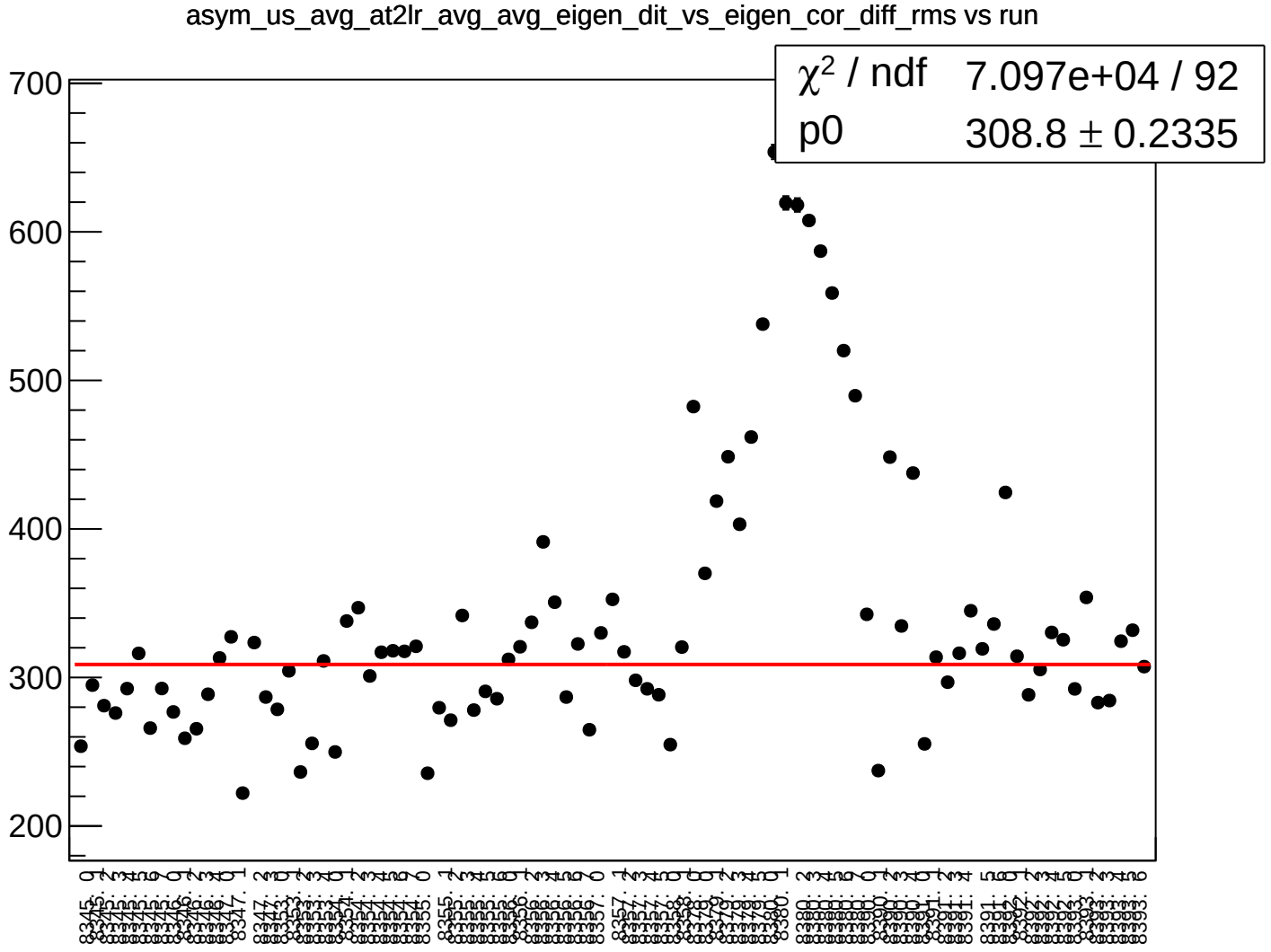

pull1D
Entries 93
Mean 0.01493
Std Dev 0.9535
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

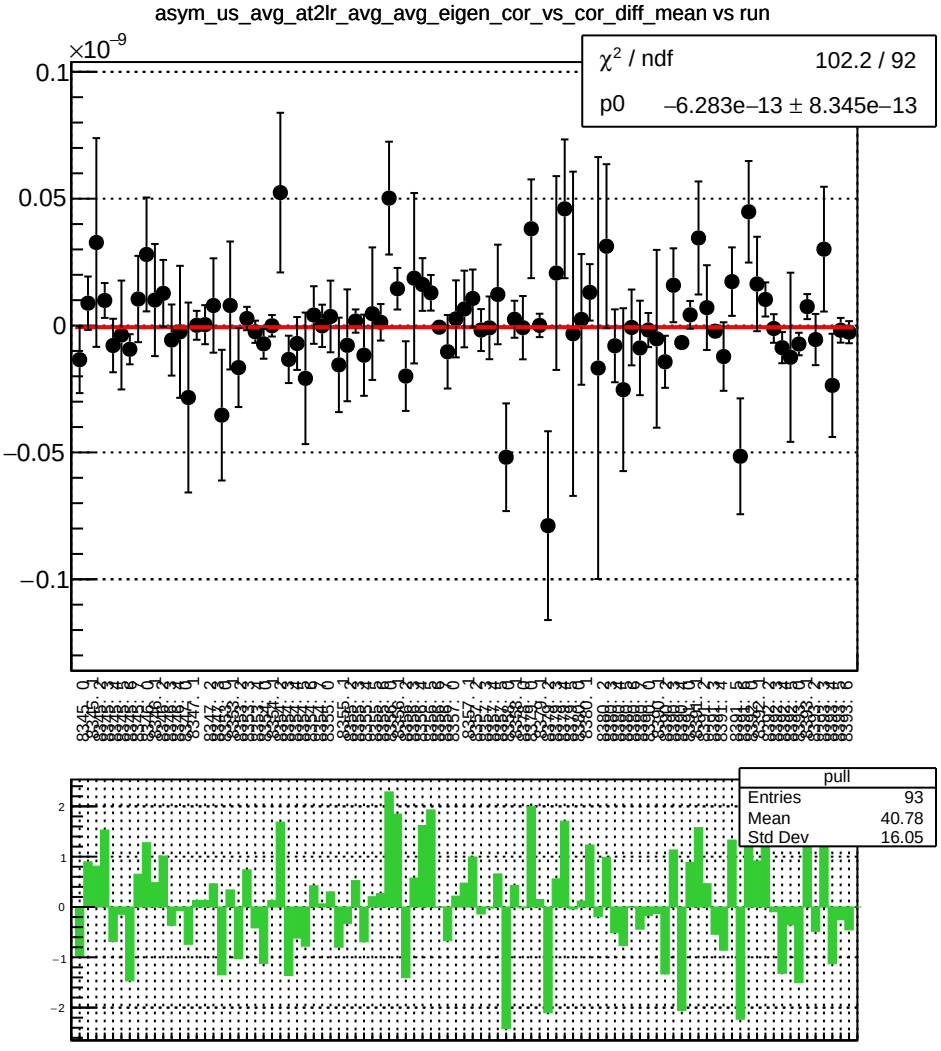

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.087e+05 / 92
p0 0.01078 ± 8.245e−06
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008

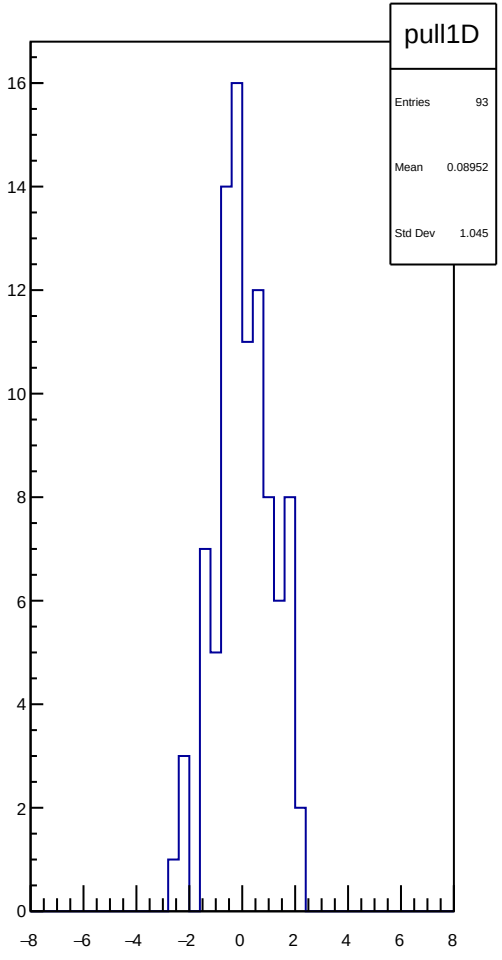

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.02 / 92
p0 0.5127 ± 0.3303
pull
Entries 93
Mean 254.5
Std Dev 0
pull1D
Entries 93
Mean 0.01641
Std Dev 1

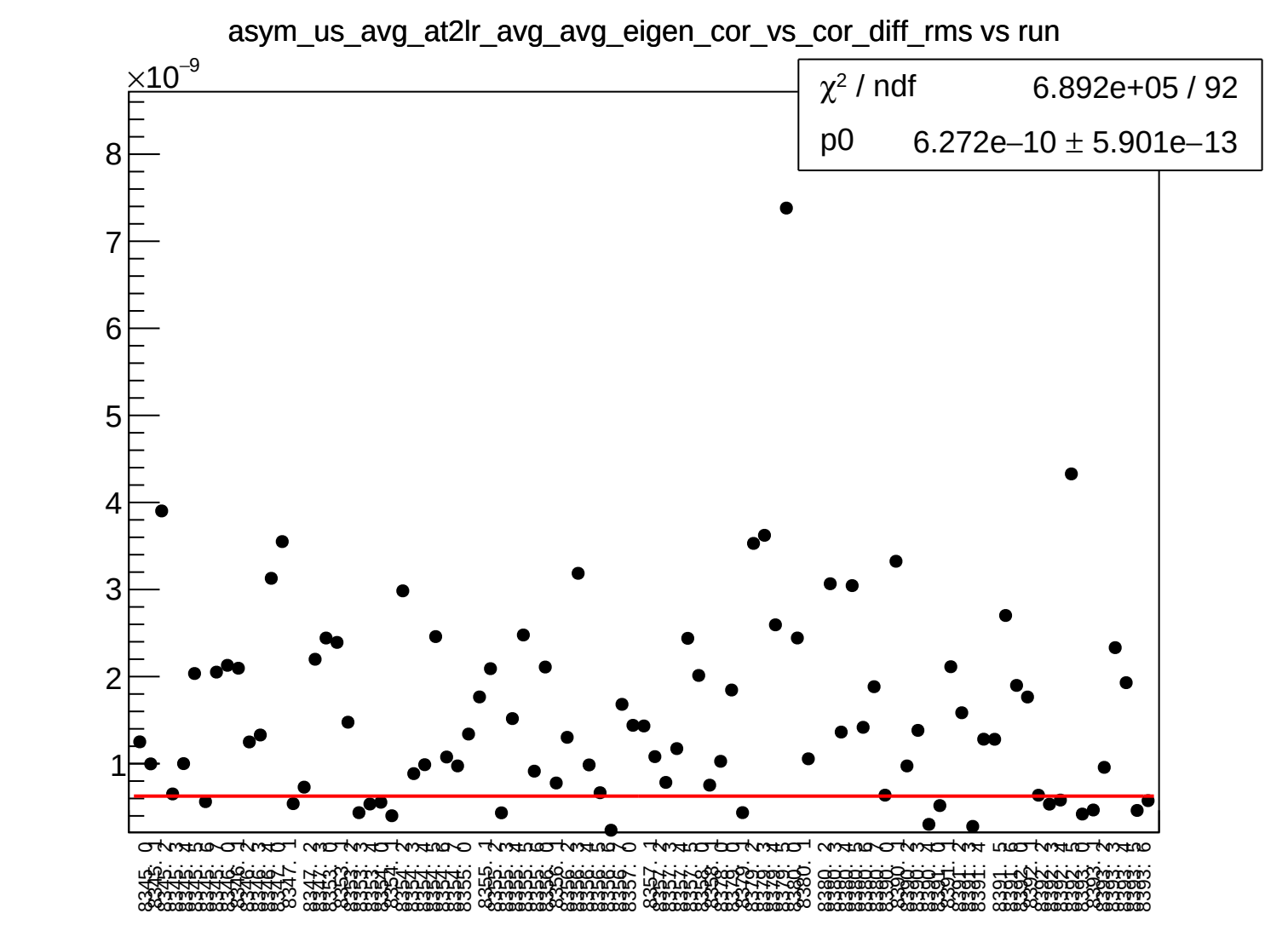

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.097e+04 / 92
p0 308.8 ± 0.2335
700
600
500
400
300
200

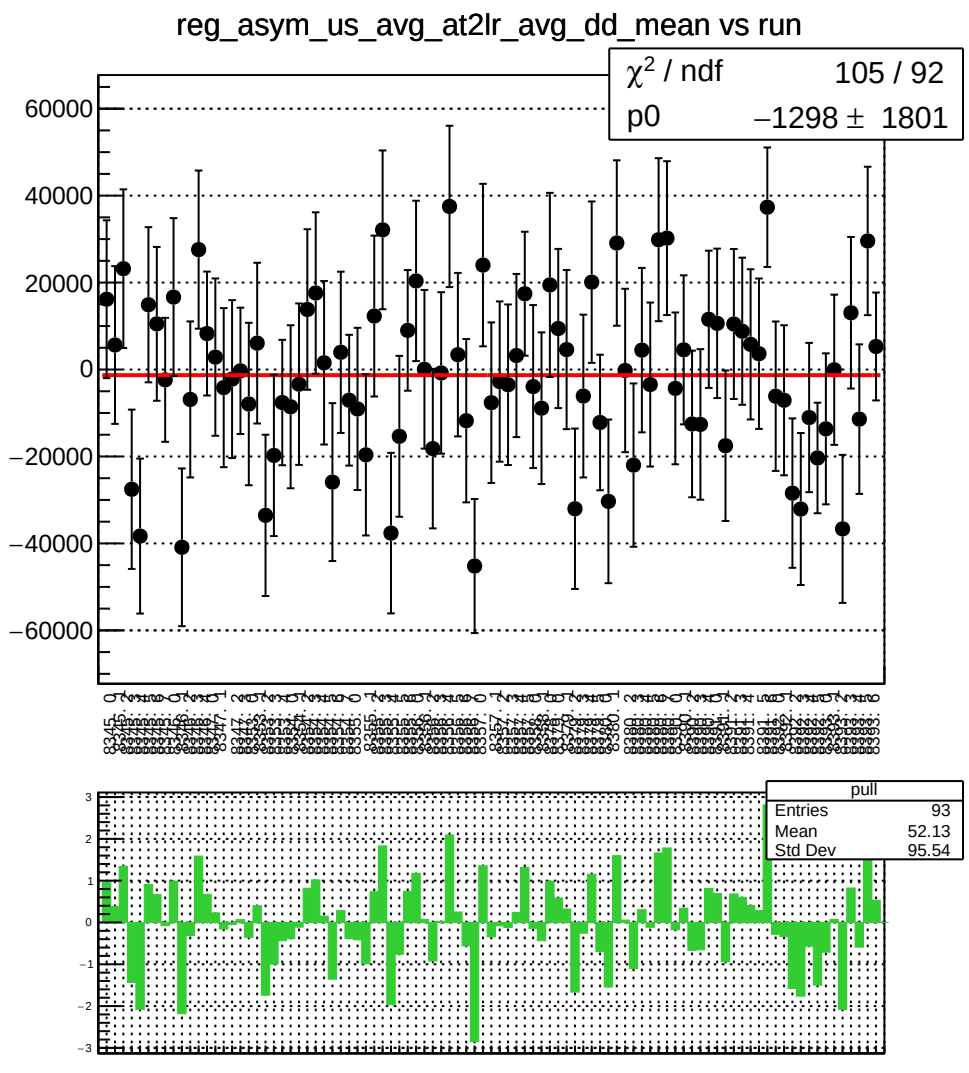

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.02 / 92
p0 0.5127 ± 0.3303
pull
Entries 93
Mean 254.5
Std Dev 0
pull1D
Entries 93
Mean 0.01641
Std Dev 1

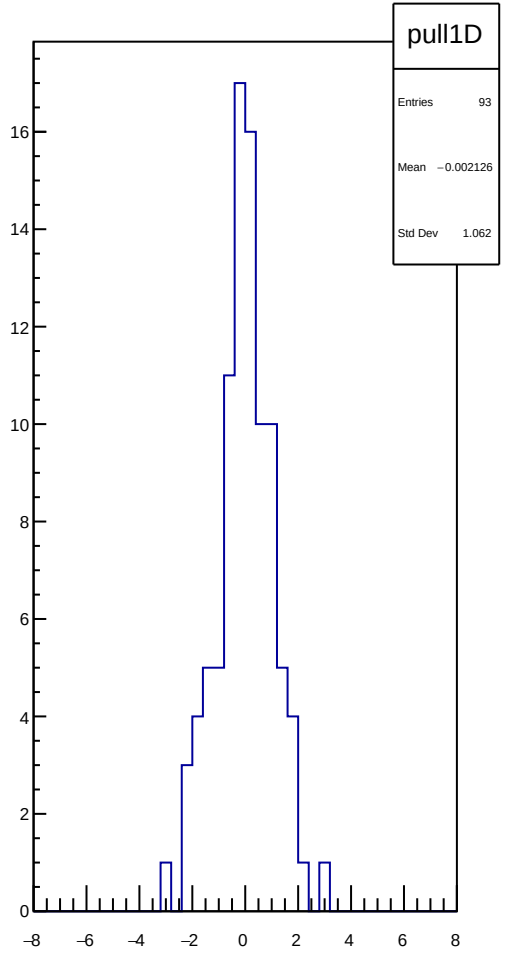

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.097e+04 / 92
p0 308.8 ± 0.2335
700
600
500
400
300
200

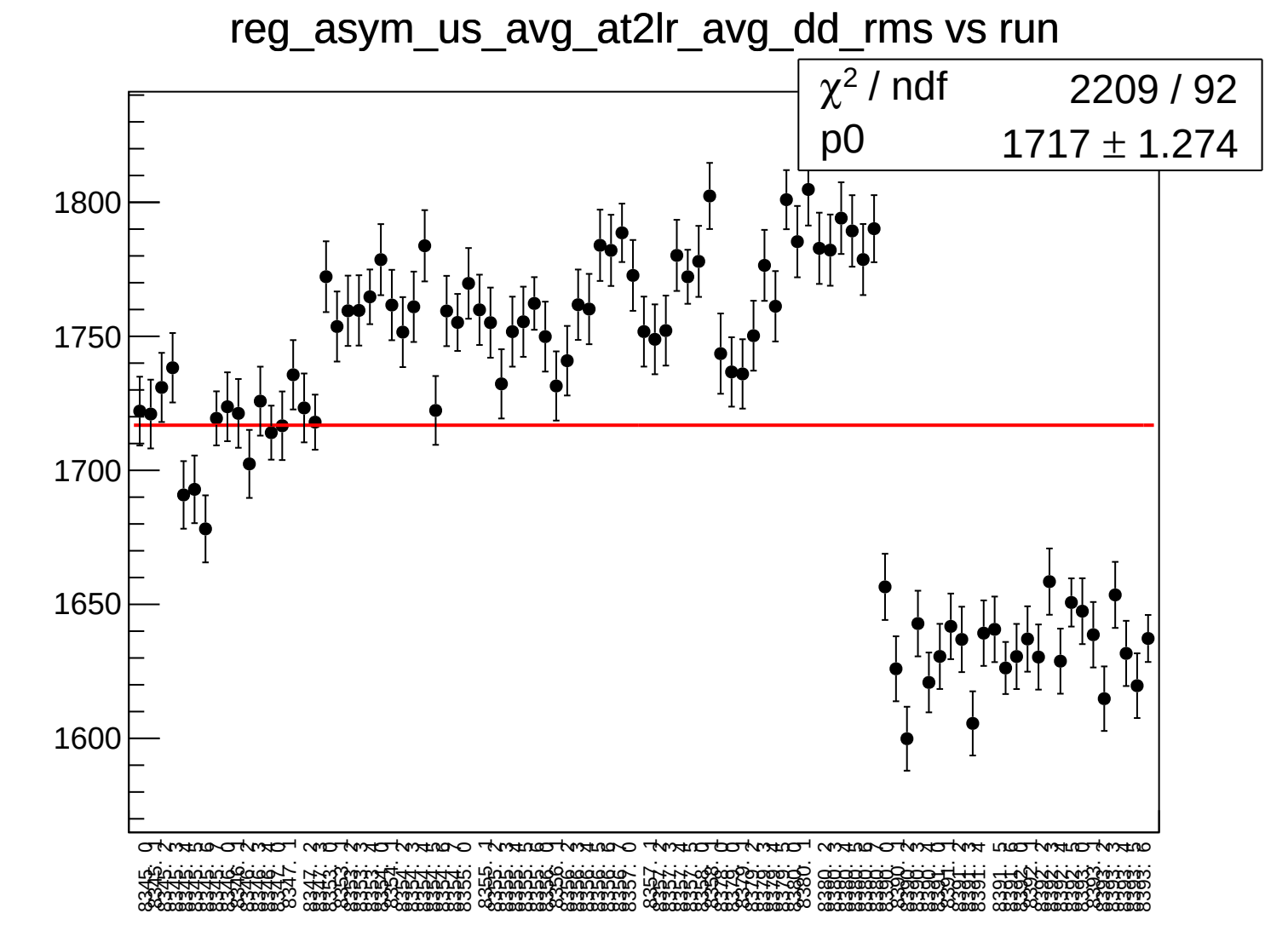

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 102.2 / 92
p0 −6.283e−13 ± 8.345e−13
pull
Entries 93
Mean 40.78
Std Dev 16.05

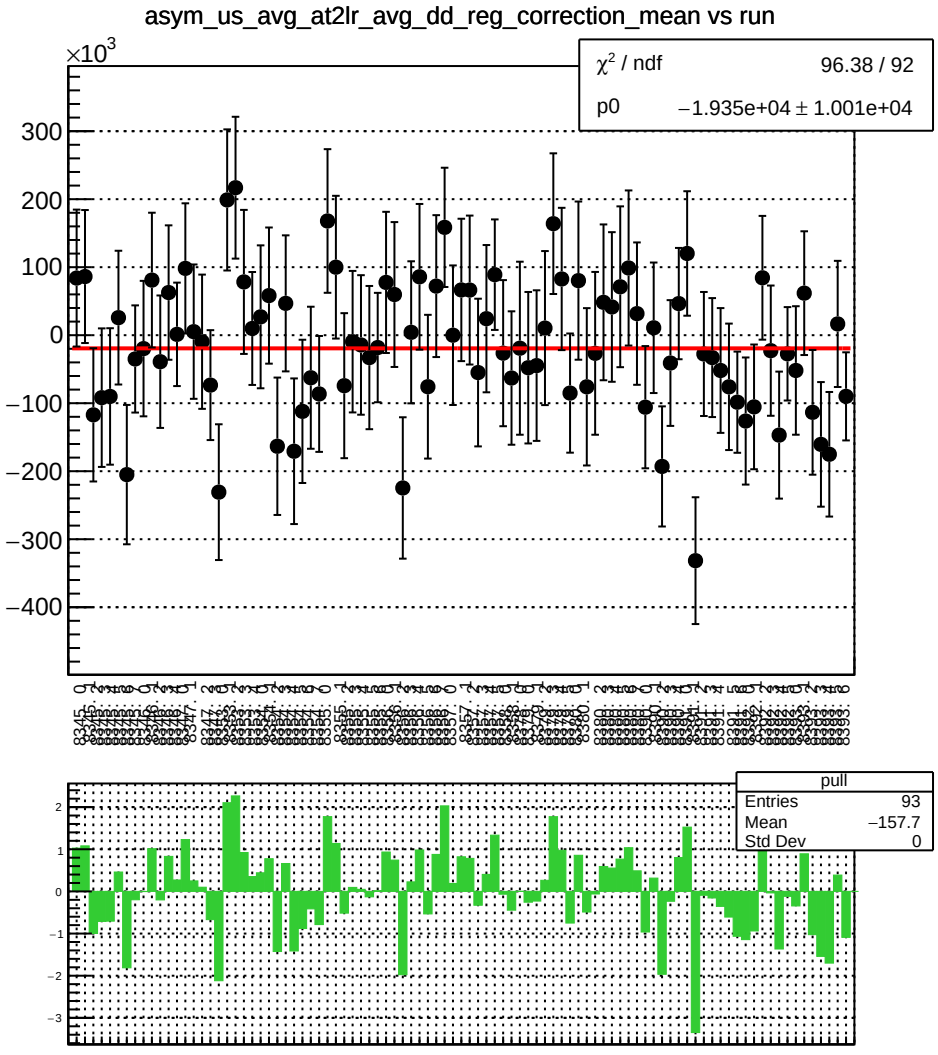

pull1D
Entries 93
Mean 0.08952
Std Dev 1.045

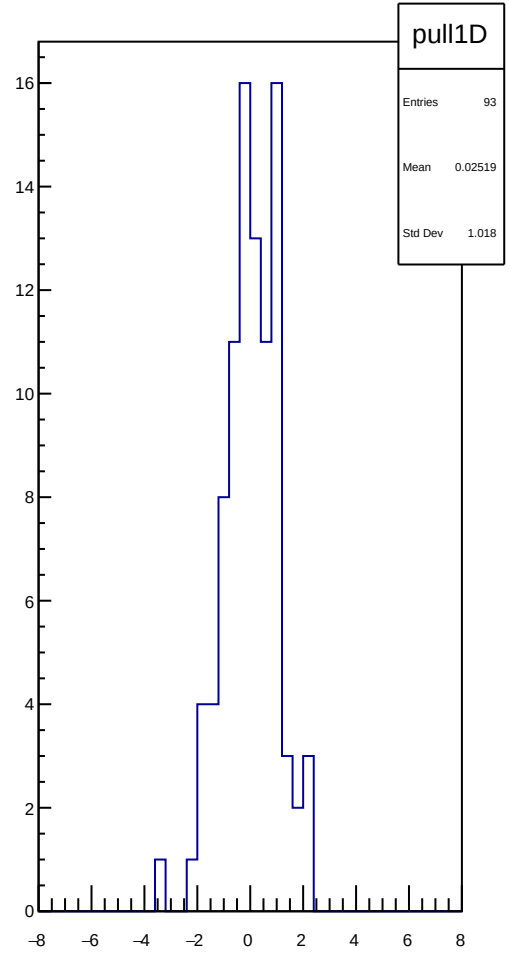

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.892e+05 / 92
p0 6.272e−10 ± 5.901e−13
8
7
6
5
4
3
2
1

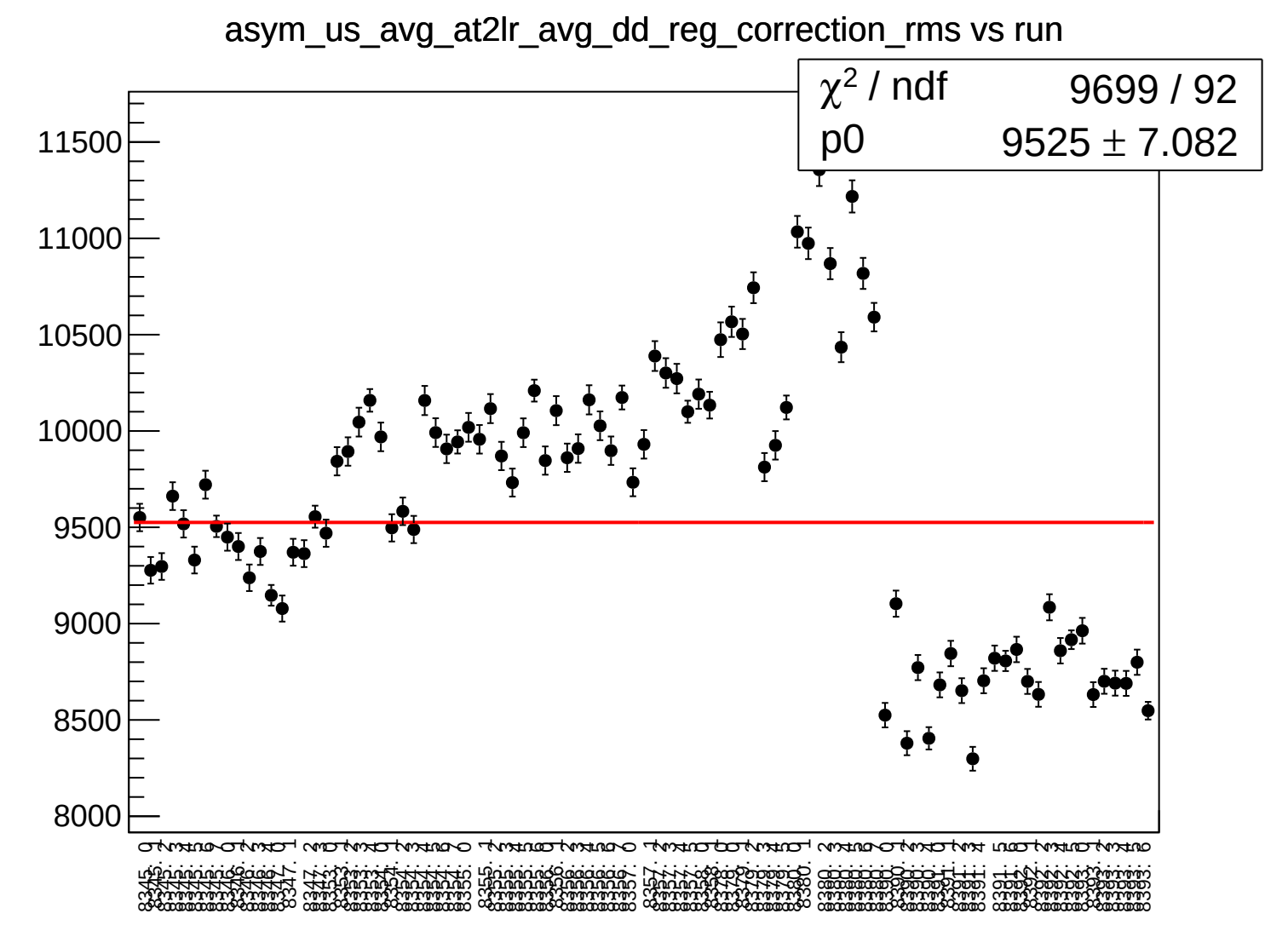

reg_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 105 / 92
p0 −1298 ± 1801
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 52.13
Std Dev 95.54
3
2
1
0
−1
−2
−3

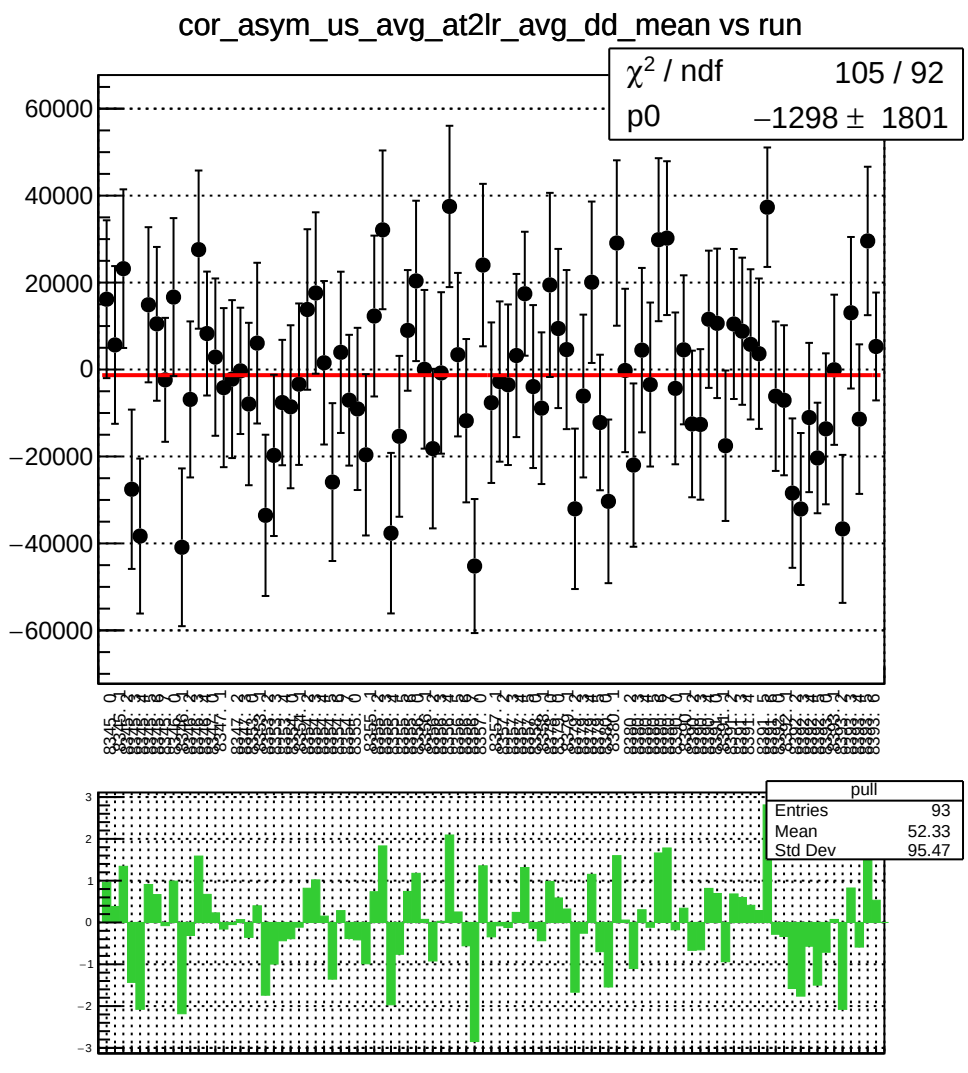

pull1D
Entries 93
Mean −0.002126
Std Dev 1.062
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

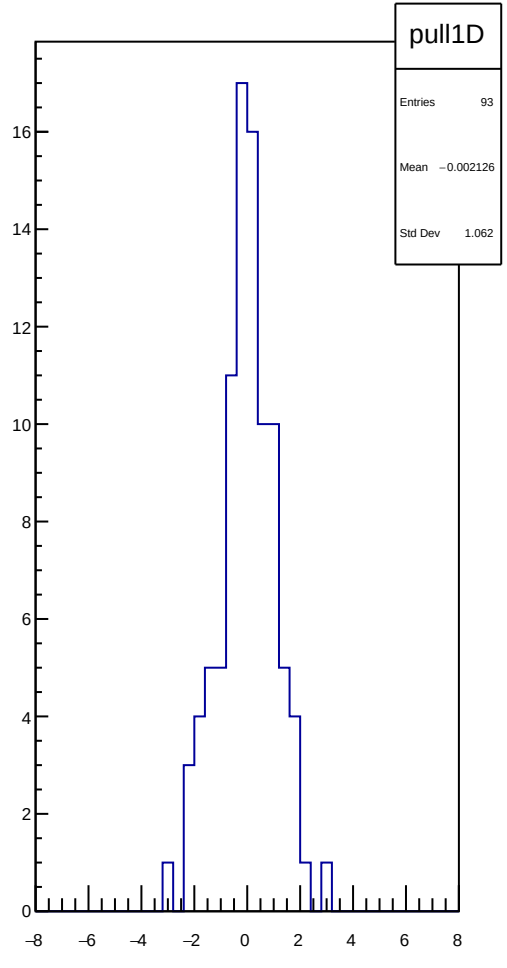

reg_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 2209 / 92
p0 1717 ± 1.274
1800
1750
1700
1650
1600

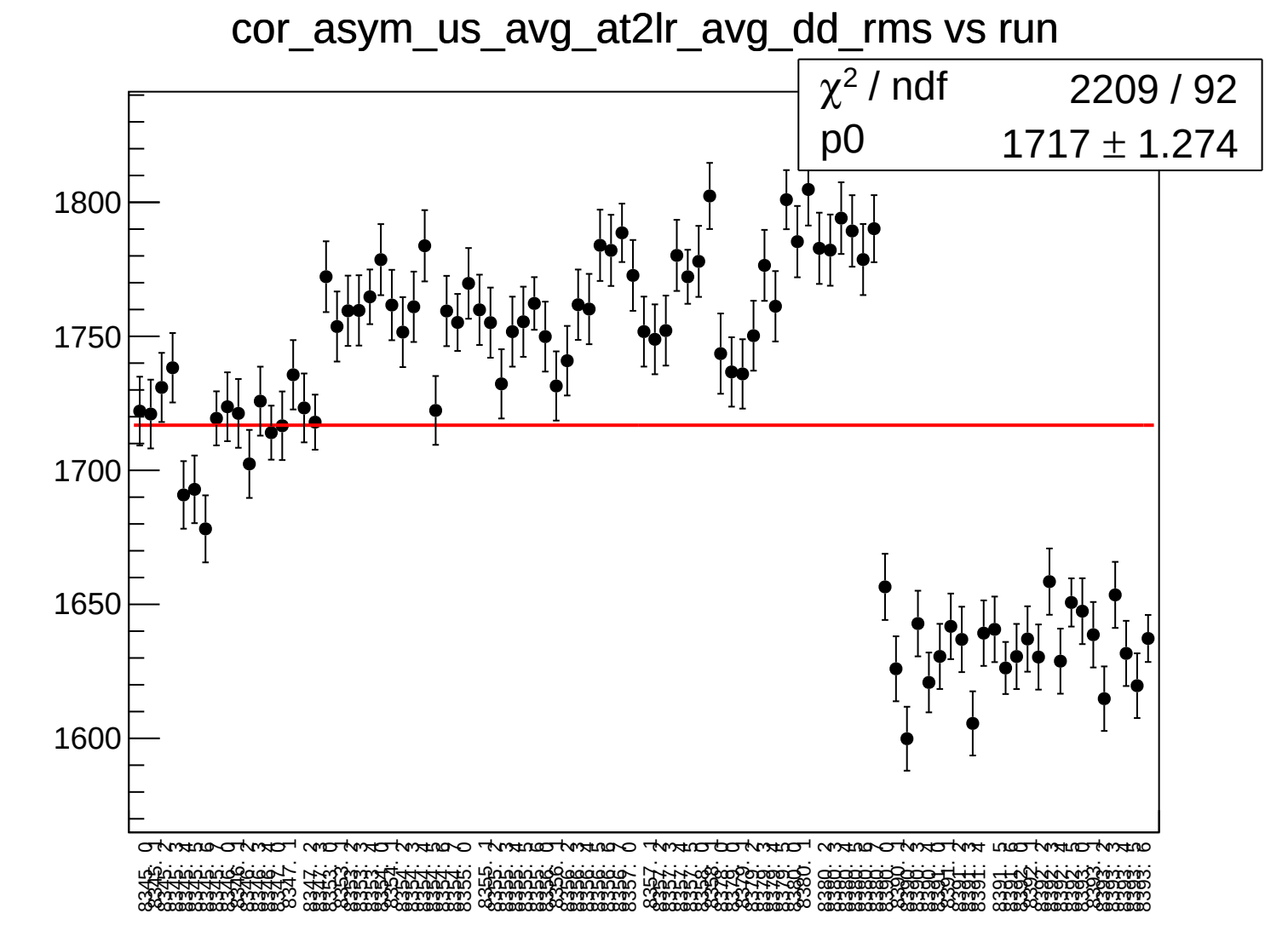

asym_us_avg_at2lr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 96.38 / 92
p0 −1.935e+04 ± 1.001e+04
pull
Entries 93
Mean −157.7
Std Dev 0

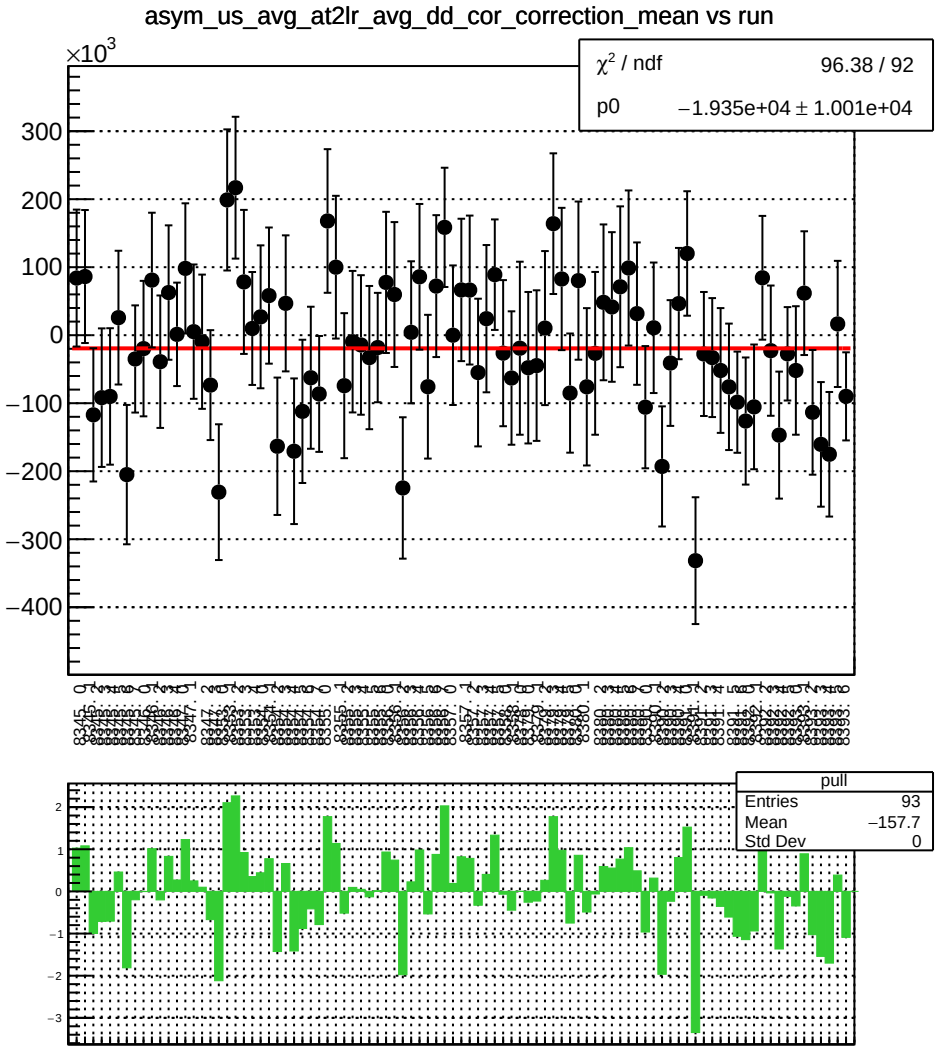

pull1D
Entries 93
Mean 0.02519
Std Dev 1.018

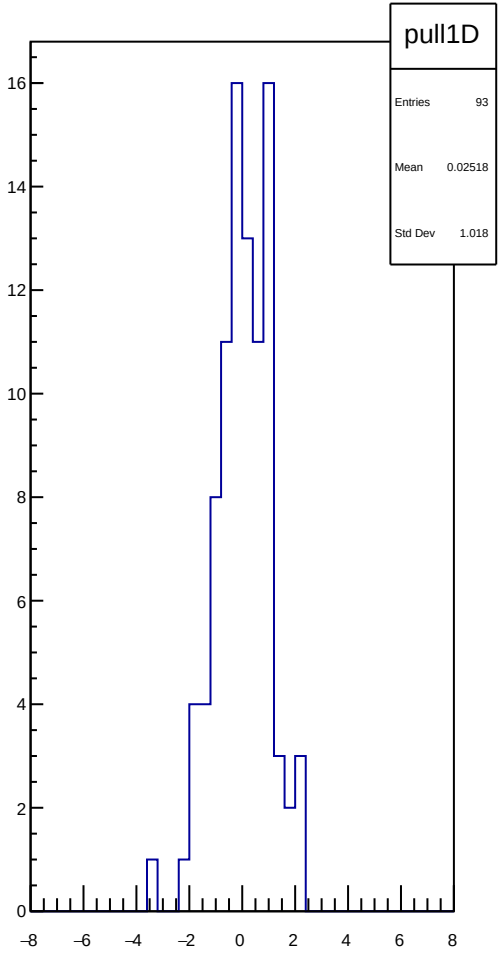

asym_us_avg_at2lr_avg_dd_reg_correction_rms vs run
χ² / ndf 9699 / 92
p0 9525 ± 7.082
11500
11000
10500
10000
9500
9000
8500
8000

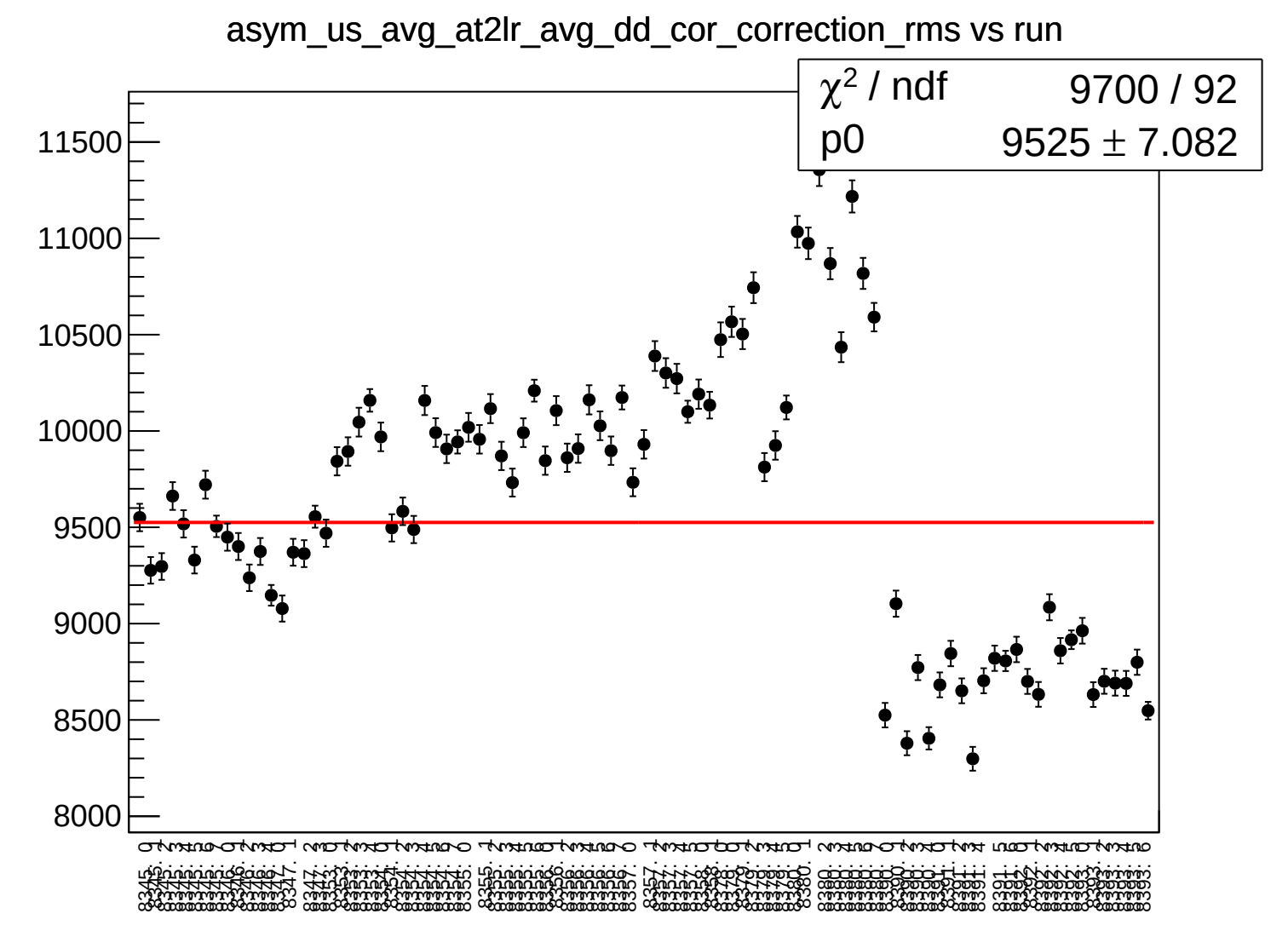

cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 105 / 92
p0 −1298 ± 1801
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 52.33
Std Dev 95.47
3
2
1
0
−1
−2
−3

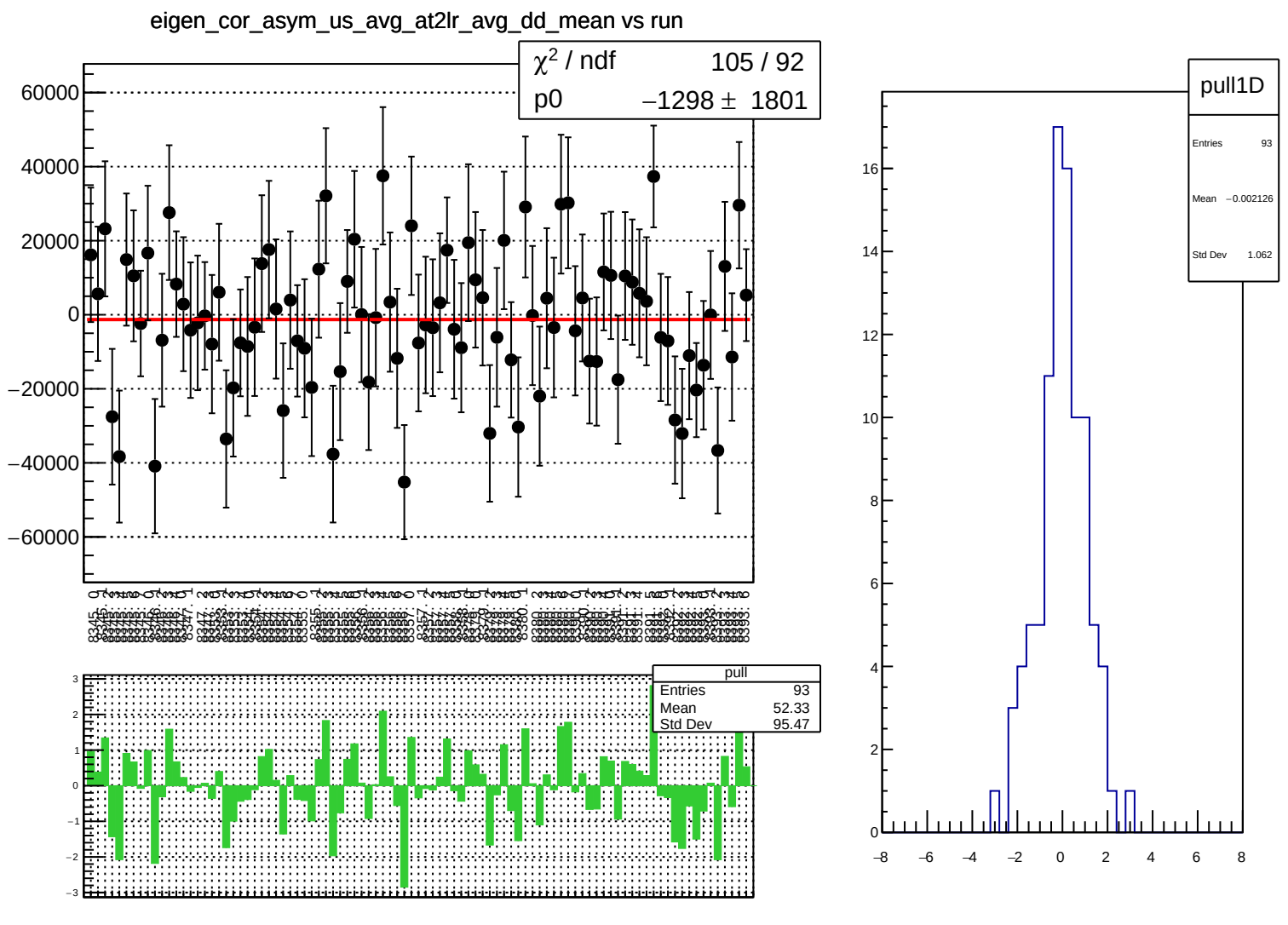

pull1D
Entries 93
Mean −0.002126
Std Dev 1.062
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

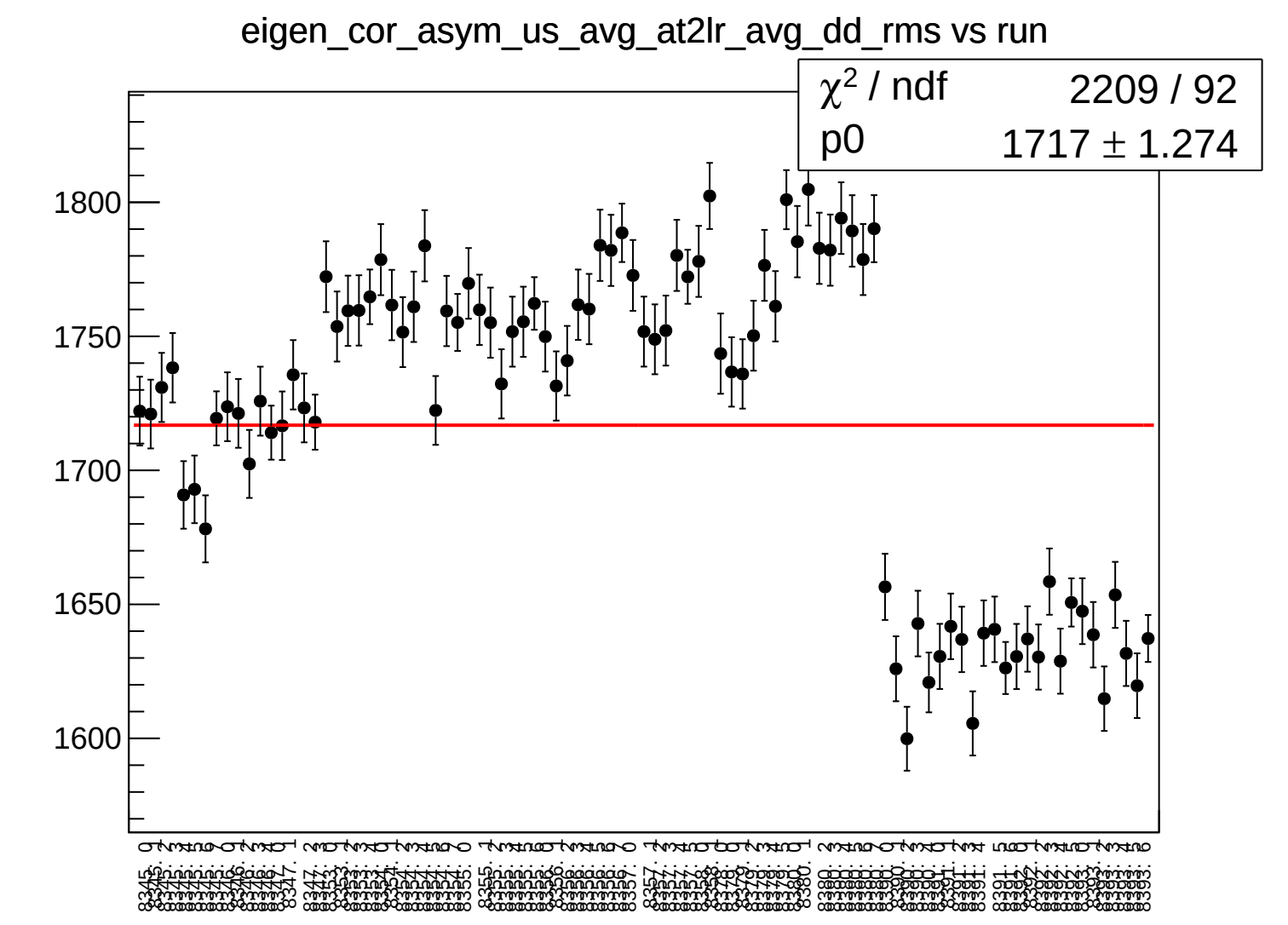

cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 2209 / 92
p0 1717 ± 1.274
1800
1750
1700
1650
1600

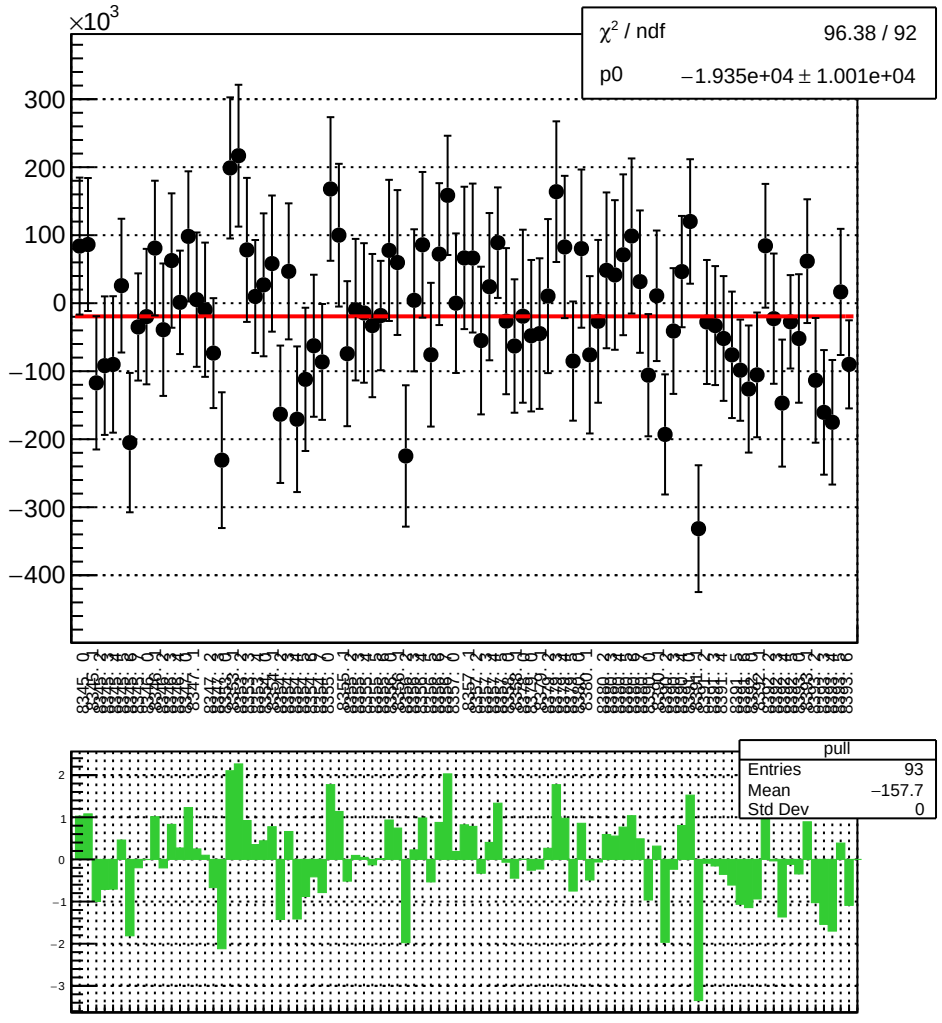

asym_us_avg_at2lr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 96.38 / 92
p0 −1.935e+04 ± 1.001e+04
pull
Entries 93
Mean −157.7
Std Dev 0

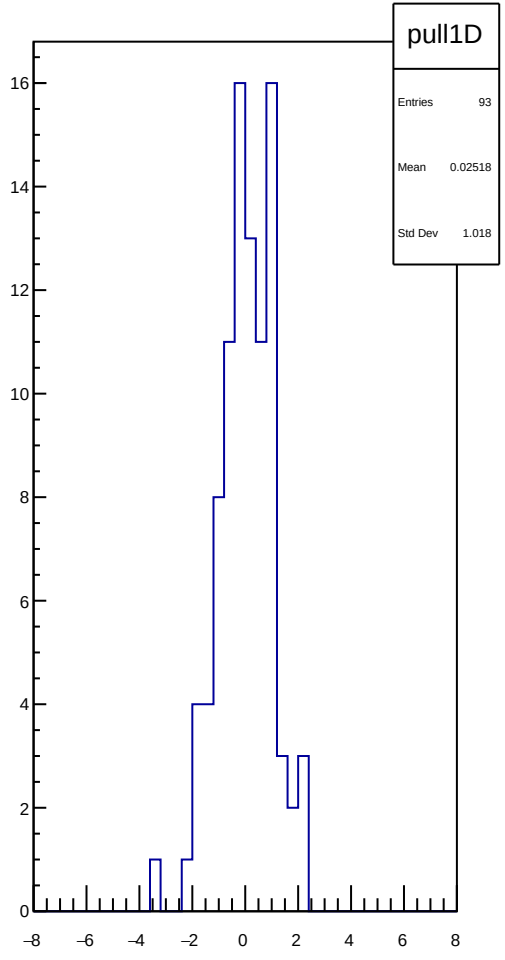

pull1D
Entries 93
Mean 0.02518
Std Dev 1.018

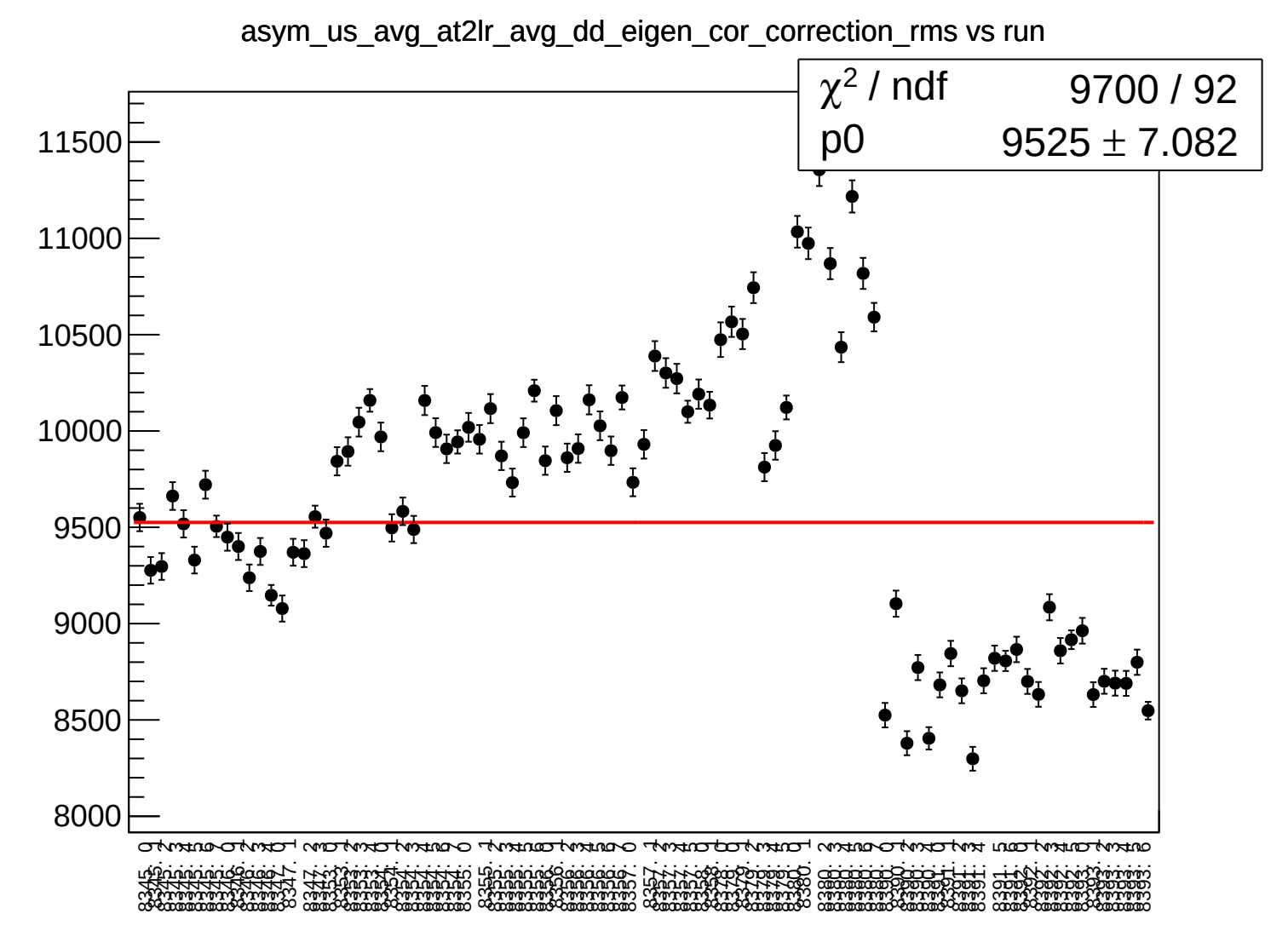

asym_us_avg_at2lr_avg_dd_cor_correction_rms vs run
χ² / ndf 9700 / 92
p0 9525 ± 7.082
11500
11000
10500
10000
9500
9000
8500
8000

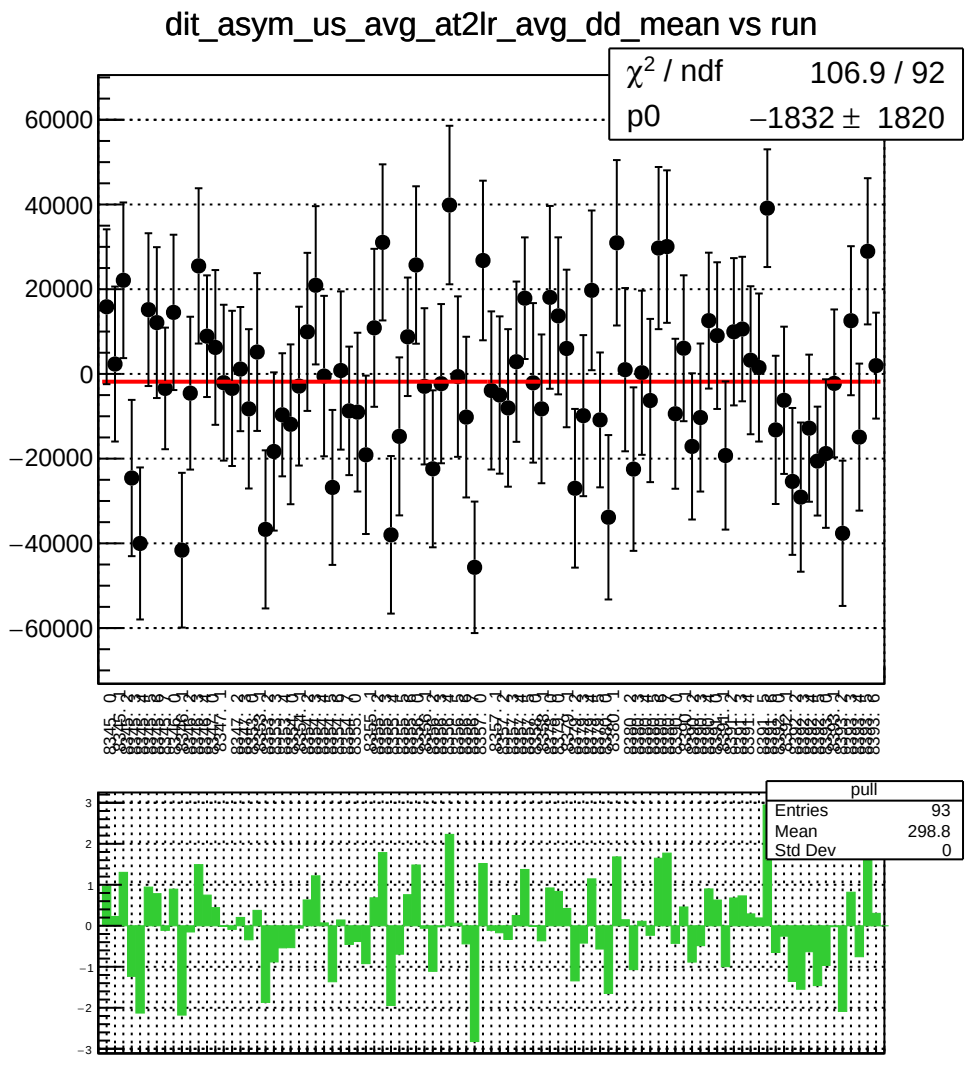

eigen_cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 105 / 92
p0 −1298 ± 1801
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 52.33
Std Dev 95.47
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.002126
Std Dev 1.062
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

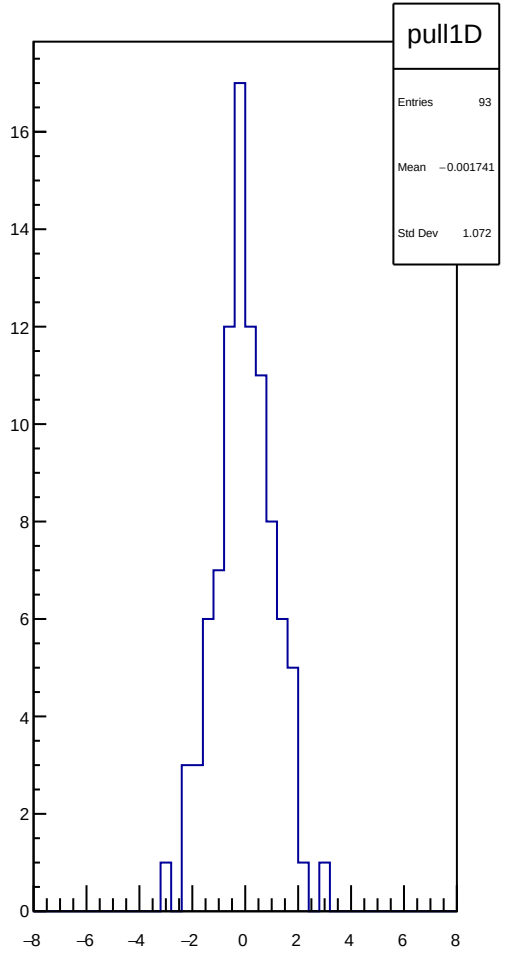

eigen_cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 2209 / 92
p0 1717 ± 1.274
1800
1750
1700
1650
1600

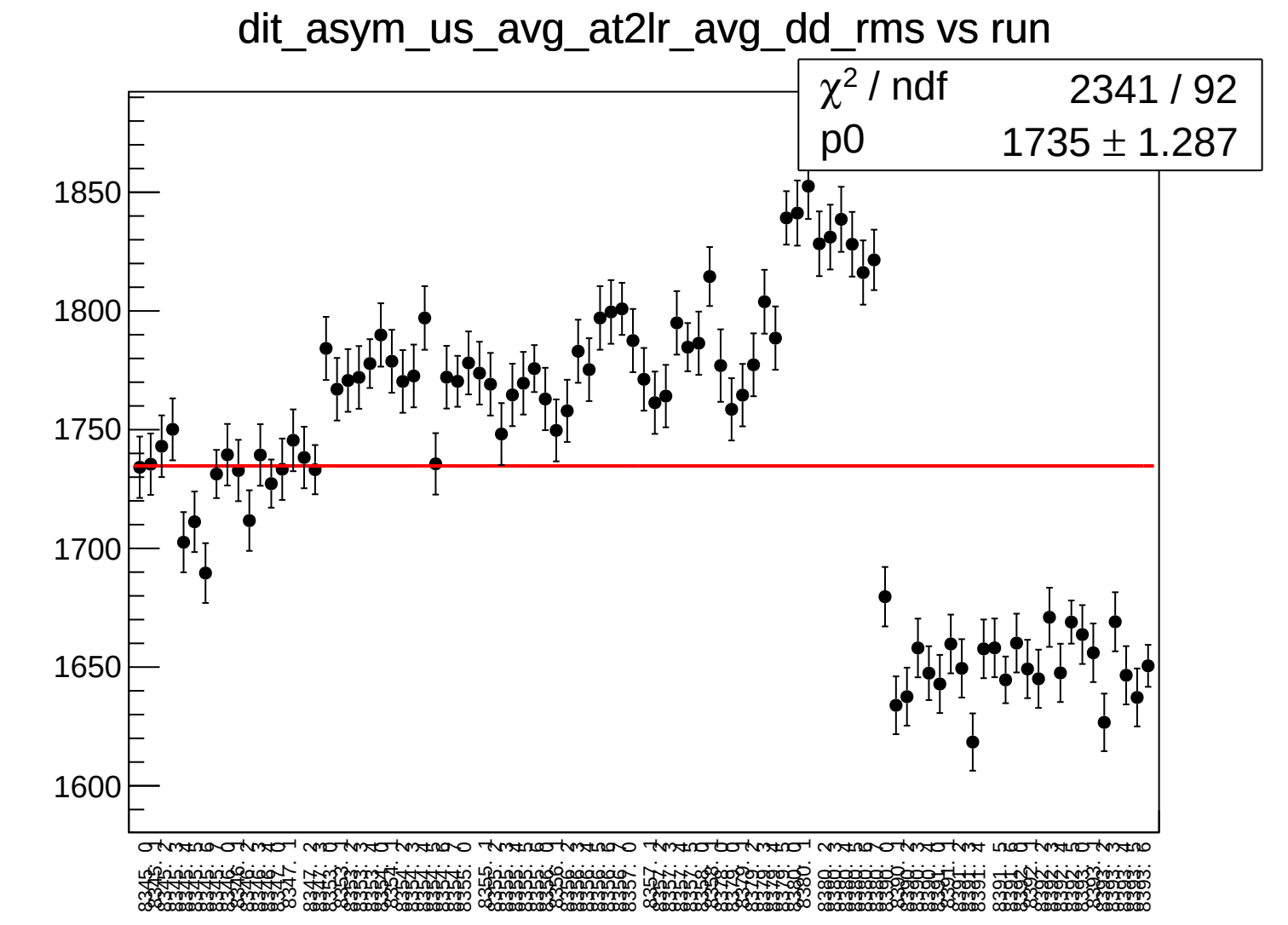

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 96.38 / 92
p0 −1.935e+04 ± 1.001e+04
300
200
100
0
−100
−200
−300
−400
pull
Entries 93
Mean −157.7
Std Dev 0
2
1
0
−1
−2
−3

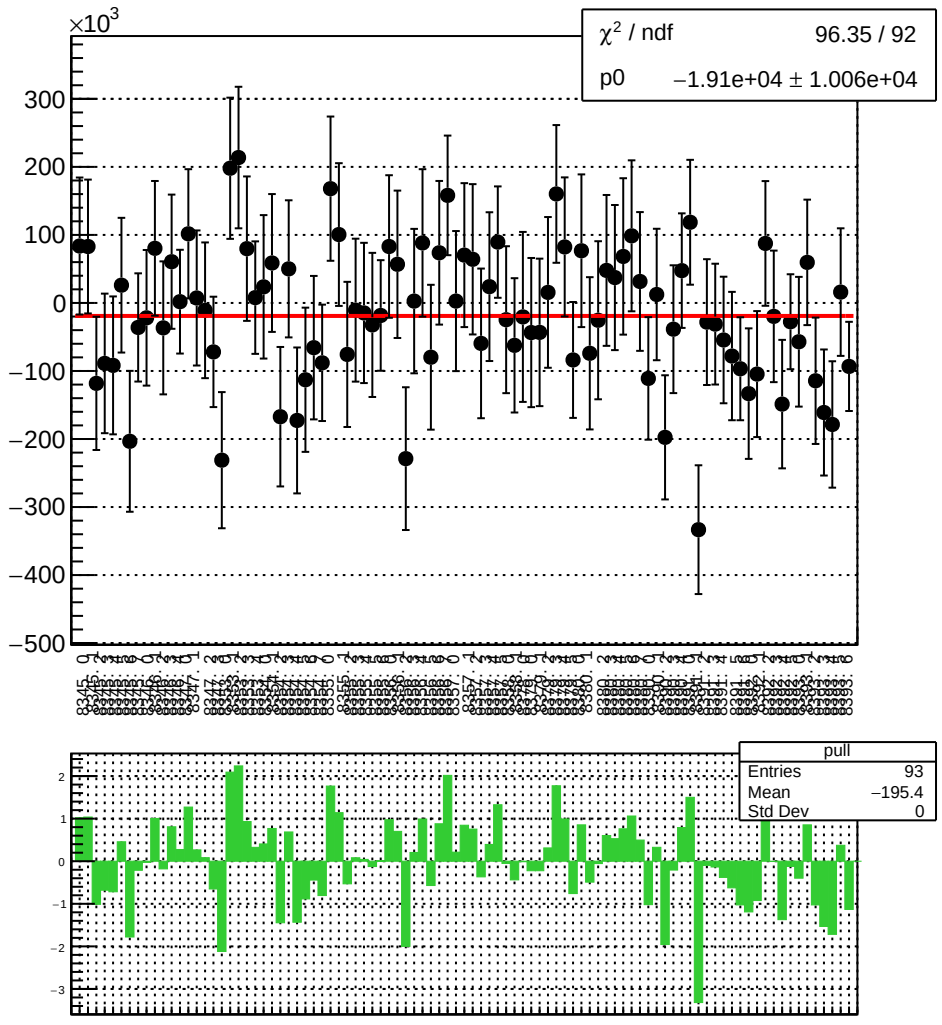

pull1D
Entries 93
Mean 0.02518
Std Dev 1.018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

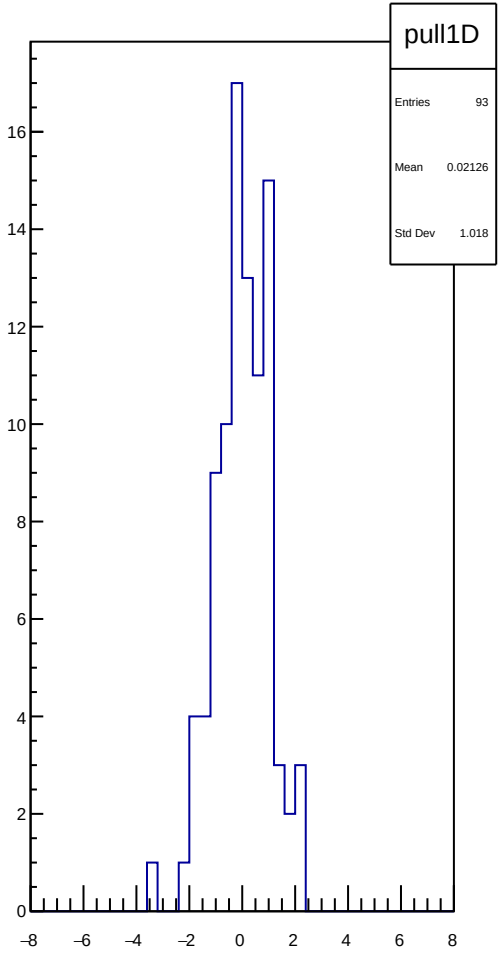

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 9700 / 92
p0 9525 ± 7.082
11500
11000
10500
10000
9500
9000
8500
8000

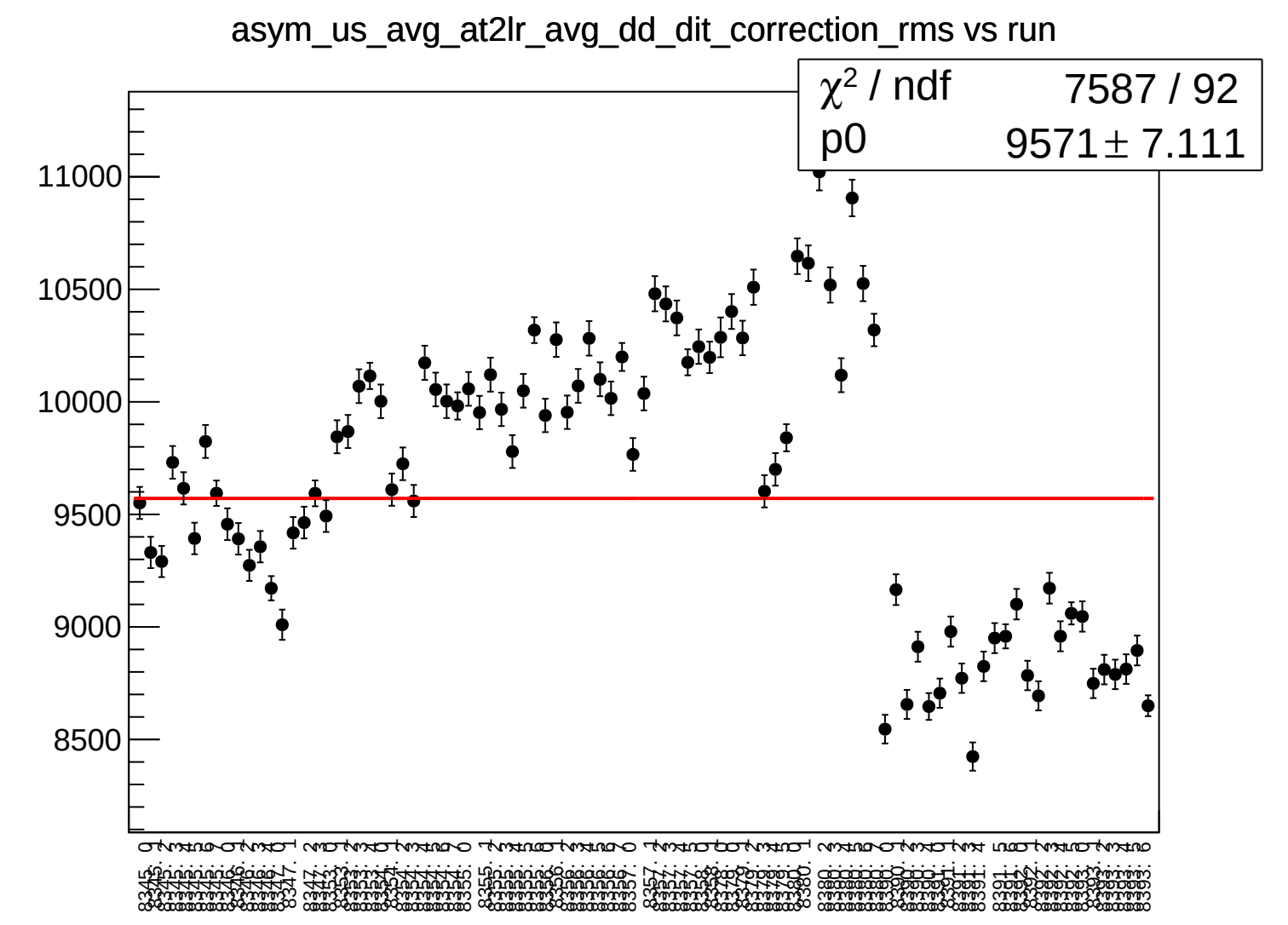

dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 106.9 / 92
p0 −1832 ± 1820
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 298.8
Std Dev 0
3
2
1
0
−1
−2
−3

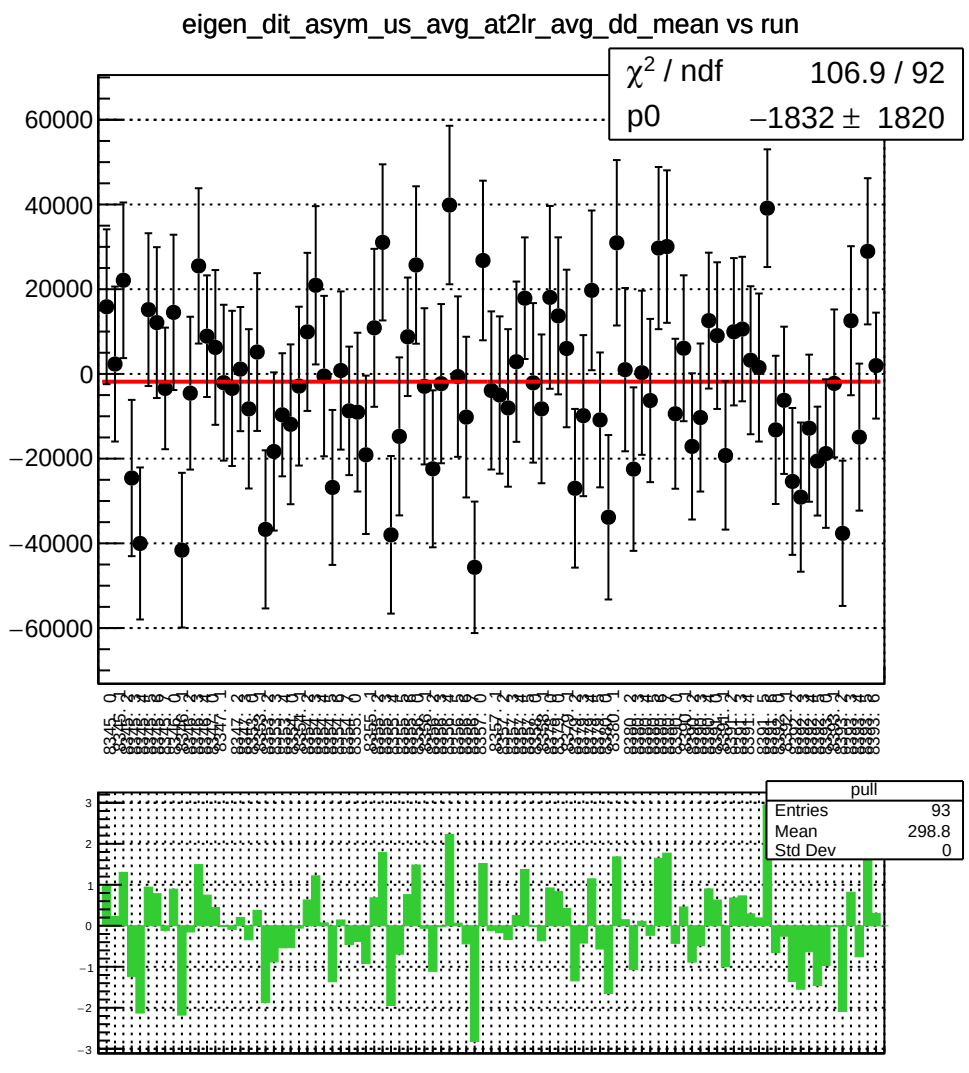

pull1D
Entries 93
Mean −0.001741
Std Dev 1.072
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

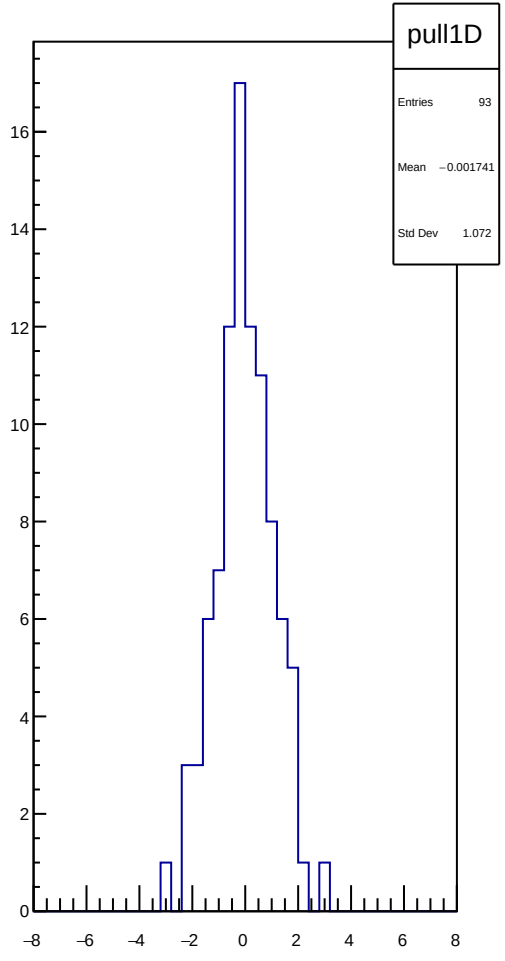

dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 2341 / 92
p0 1735 ± 1.287
1850
1800
1750
1700
1650
1600

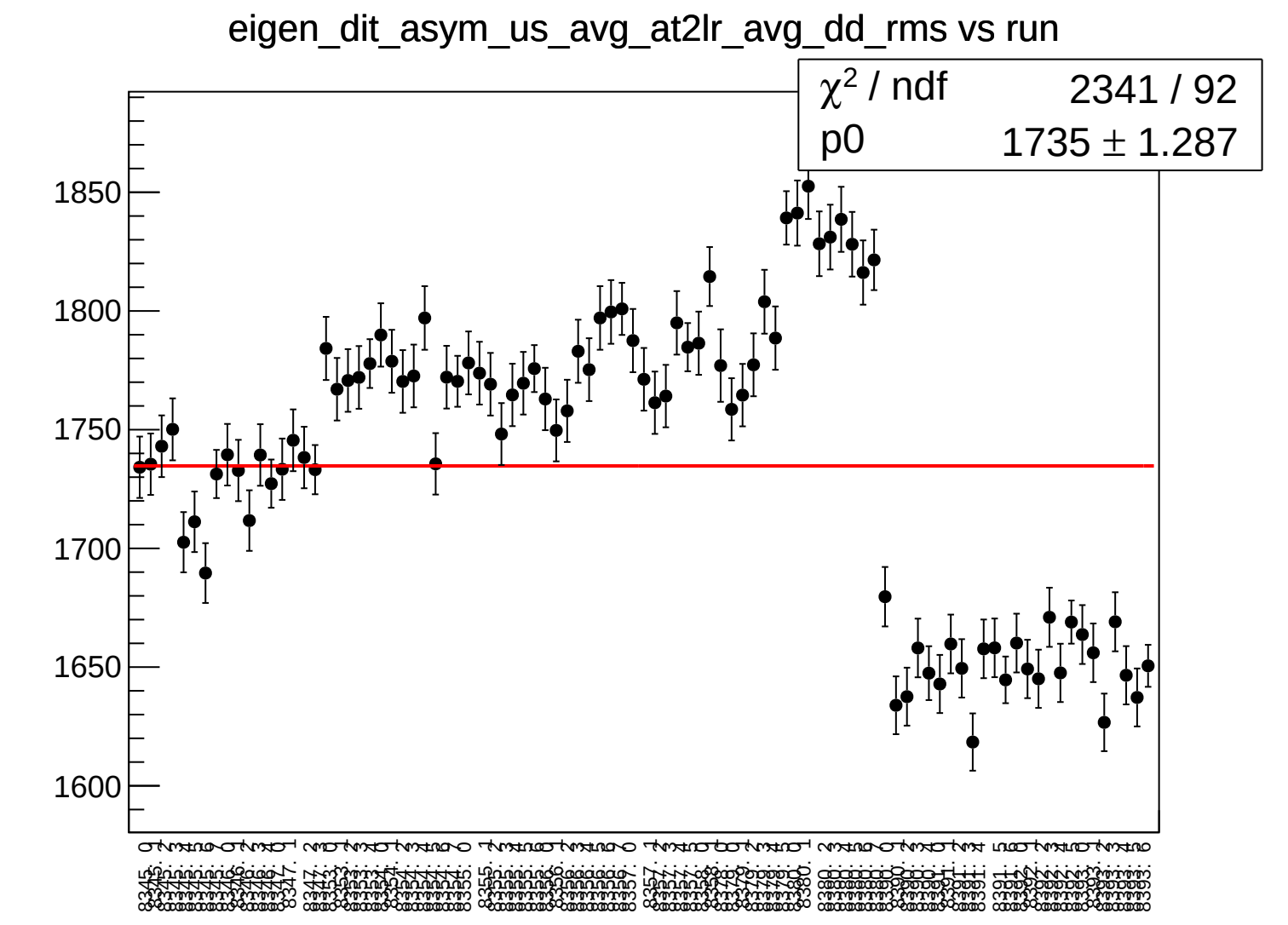

asym_us_avg_at2lr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 96.35 / 92
p0 −1.91e+04 ± 1.006e+04
pull
Entries 93
Mean −195.4
Std Dev 0

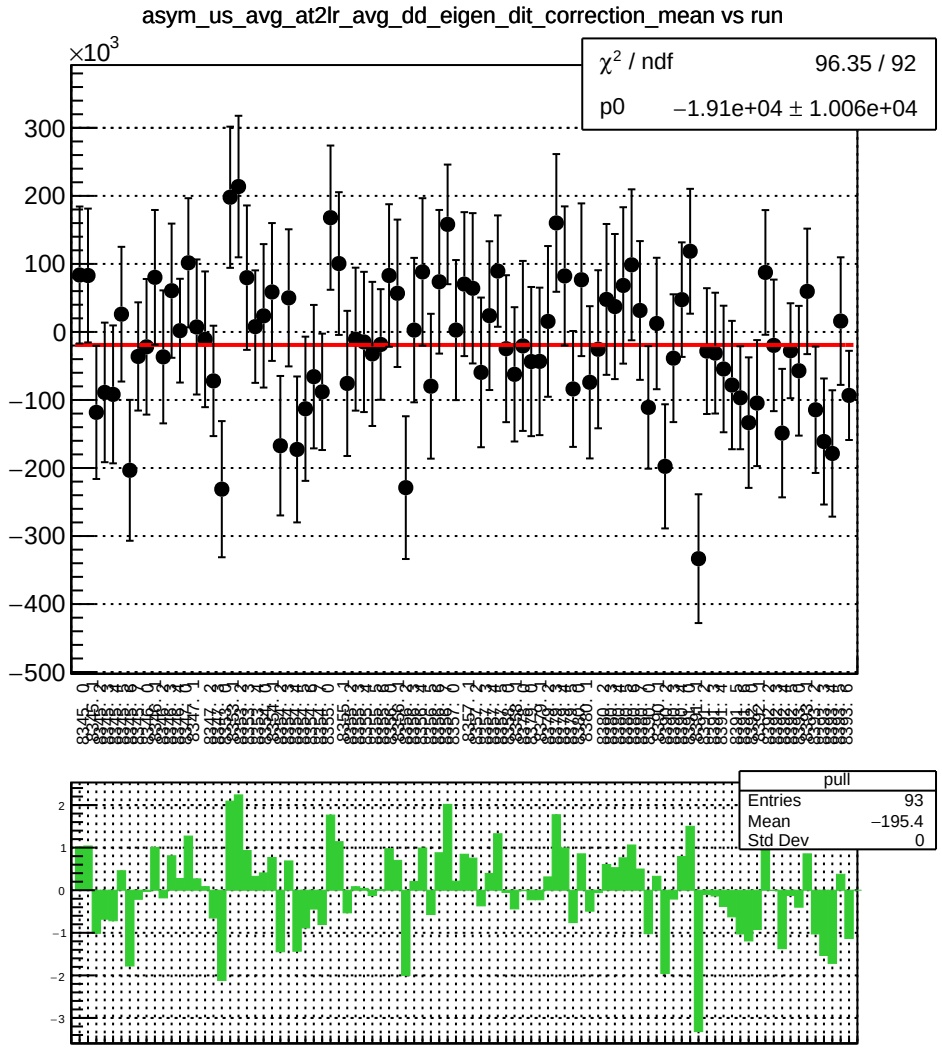

pull1D
Entries 93
Mean 0.02126
Std Dev 1.018

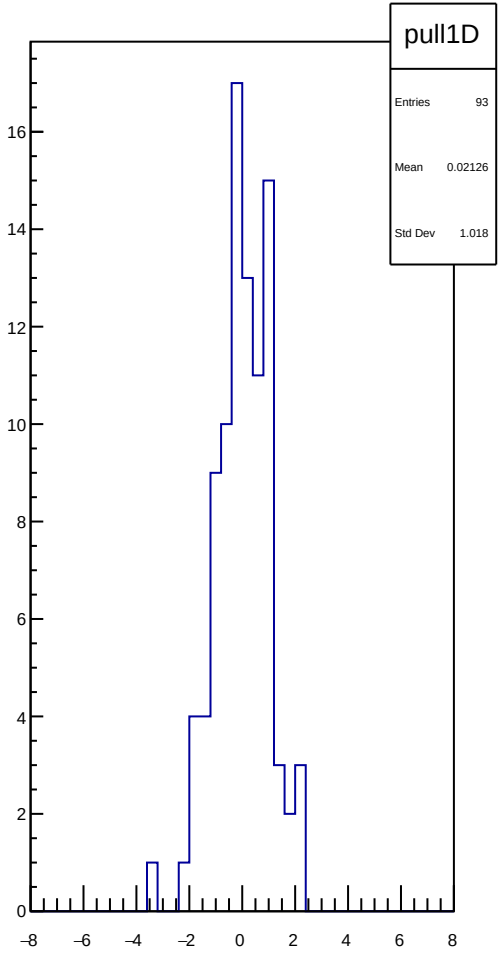

asym_us_avg_at2lr_avg_dd_dit_correction_rms vs run
χ² / ndf 7587 / 92
p0 9571 ± 7.111
11000
10500
10000
9500
9000
8500

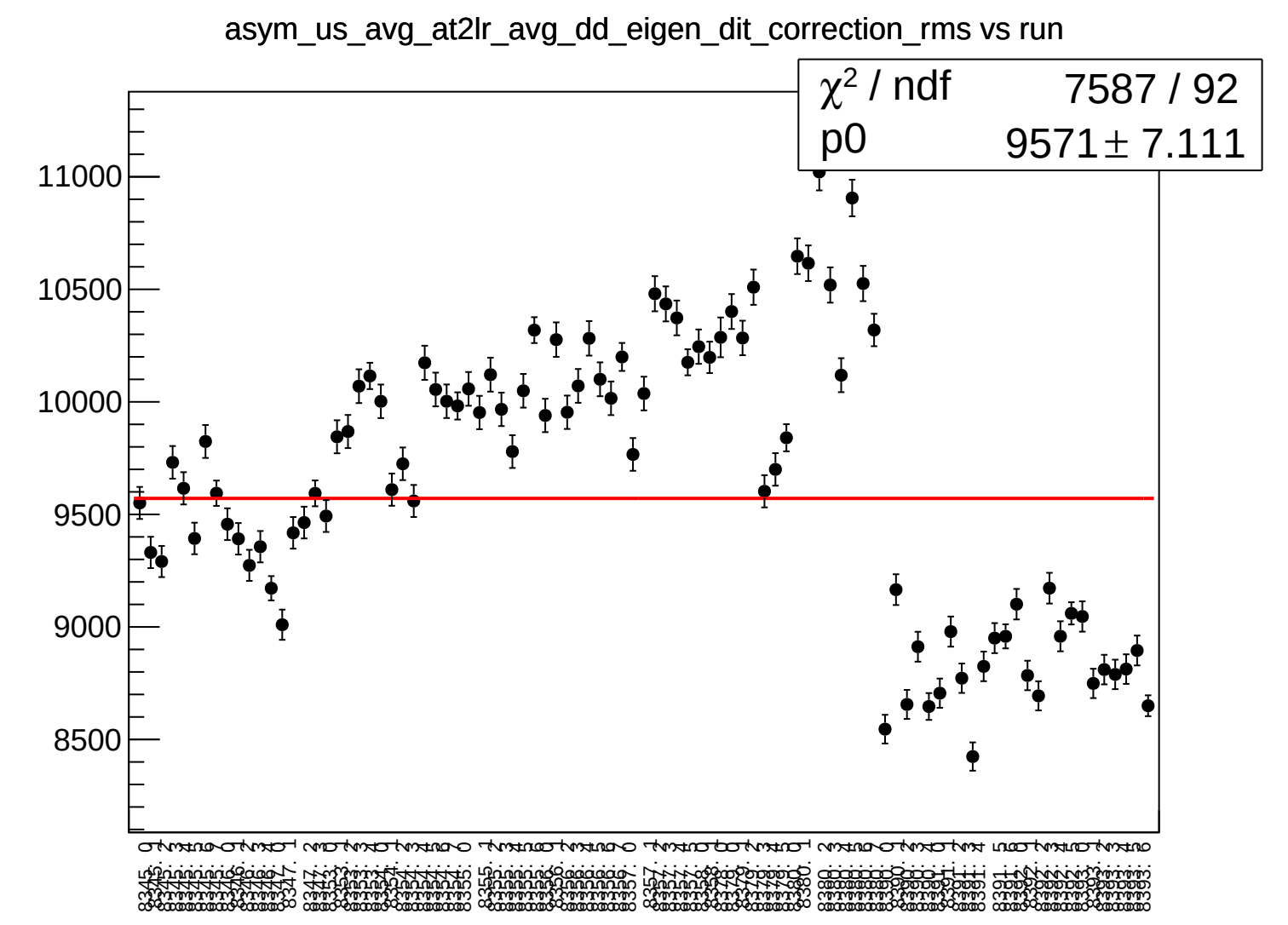

eigen_dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 106.9 / 92
p0 −1832 ± 1820
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 298.8
Std Dev 0
3
2
1
0
−1
−2
−3

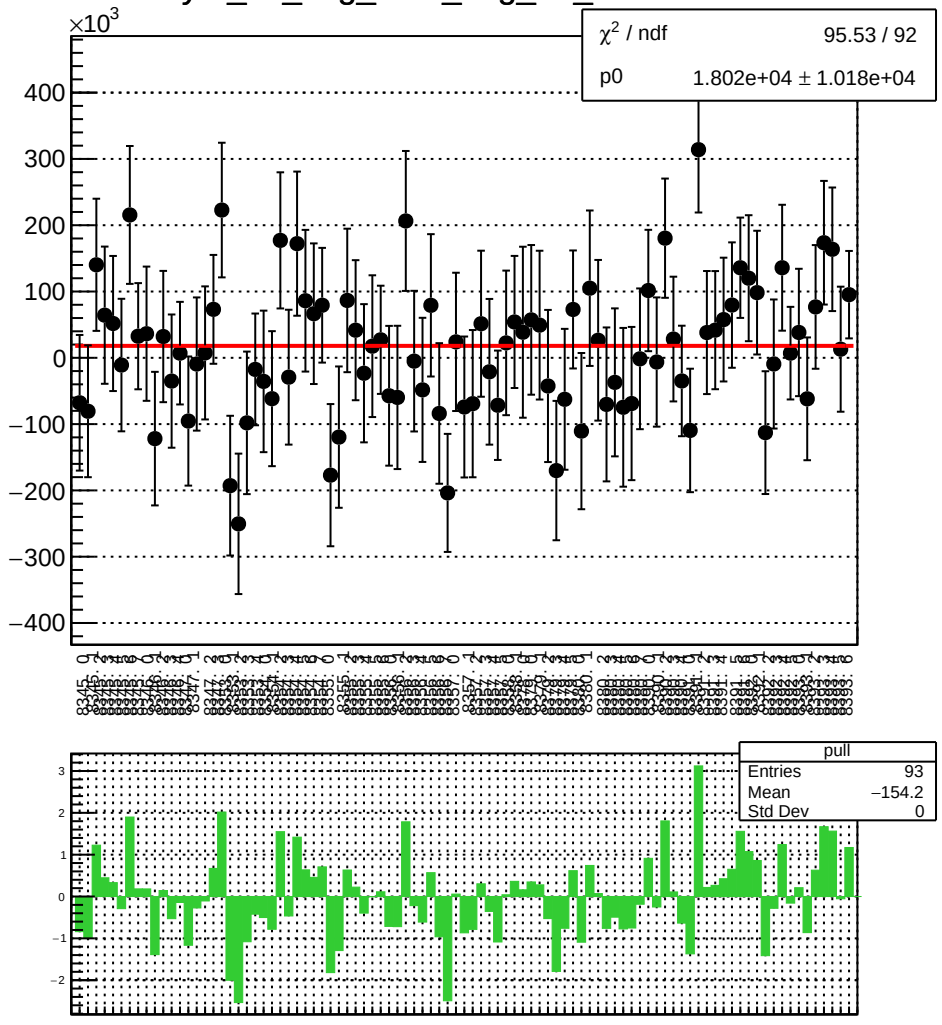

pull1D
Entries 93
Mean −0.001741
Std Dev 1.072
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

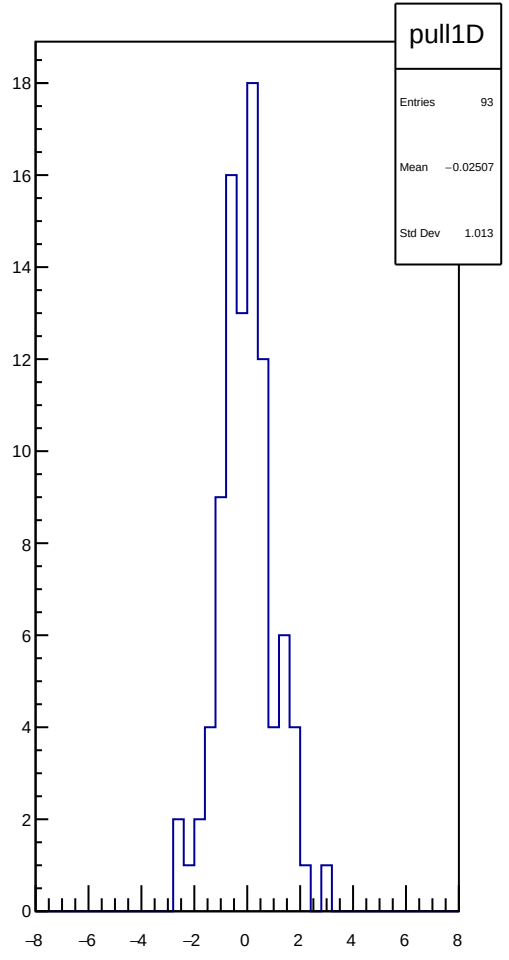

eigen_dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 2341 / 92
p0 1735 ± 1.287
1850
1800
1750
1700
1650
1600

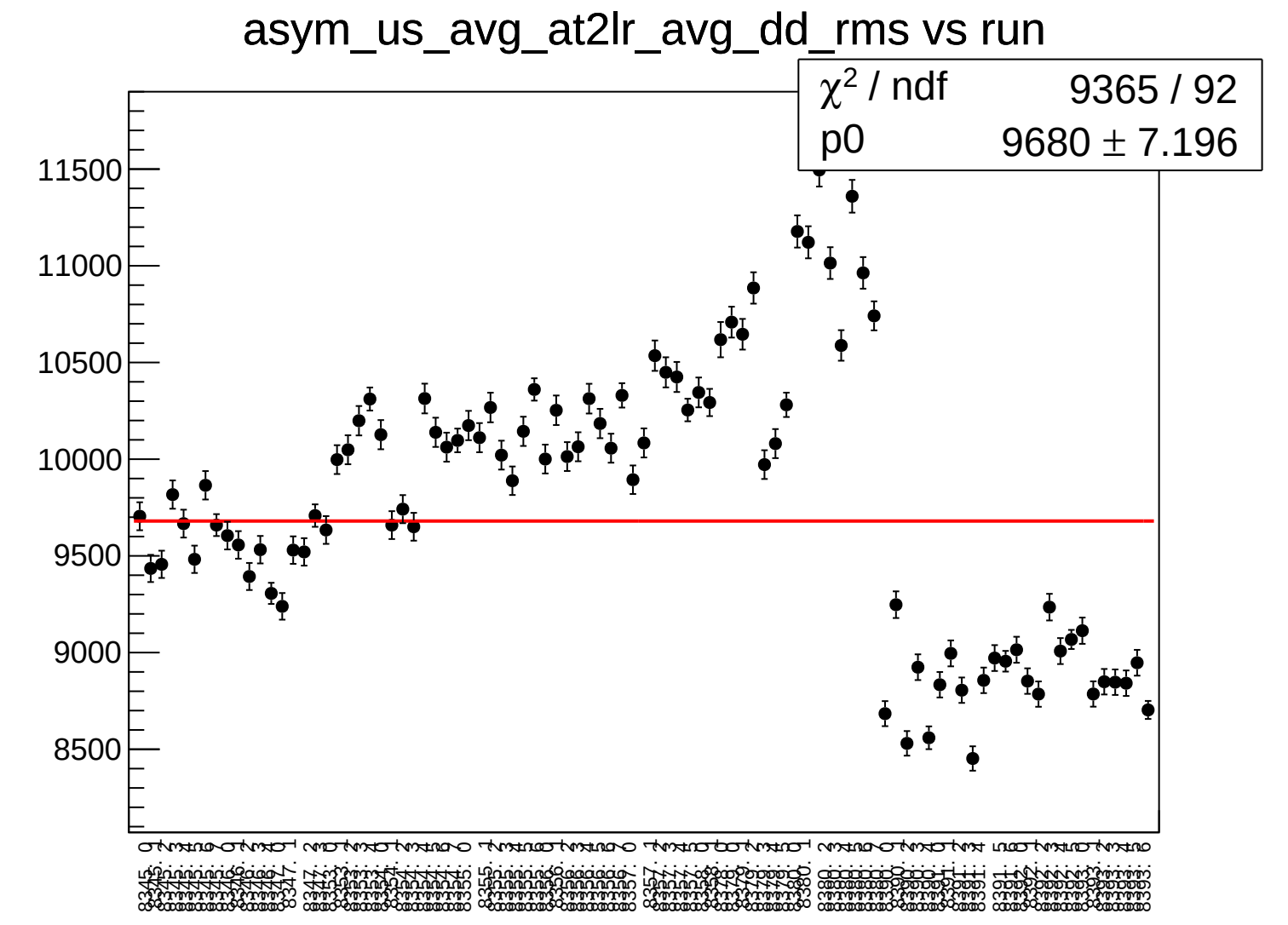

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 96.35 / 92
p0 −1.91e+04 ± 1.006e+04
pull
Entries 93
Mean −195.4
Std Dev 0

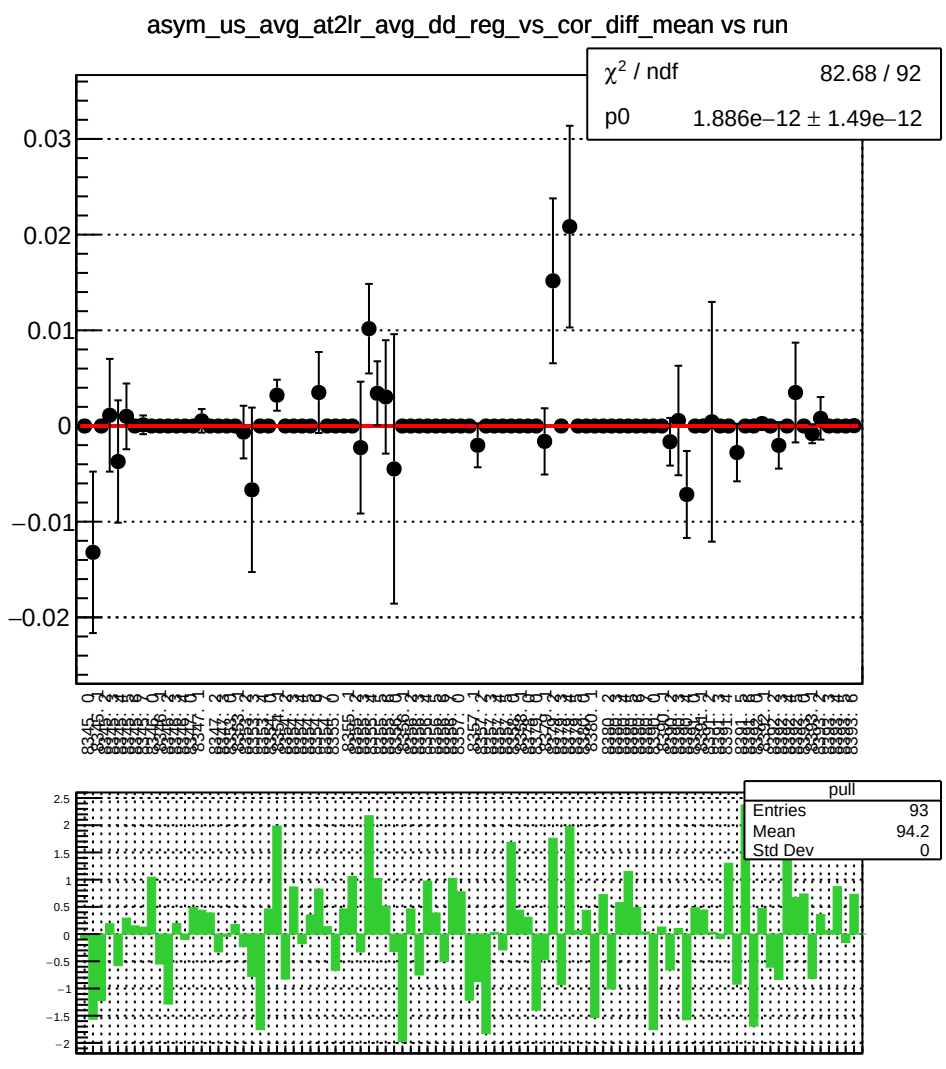

pull1D
Entries 93
Mean 0.02126
Std Dev 1.018

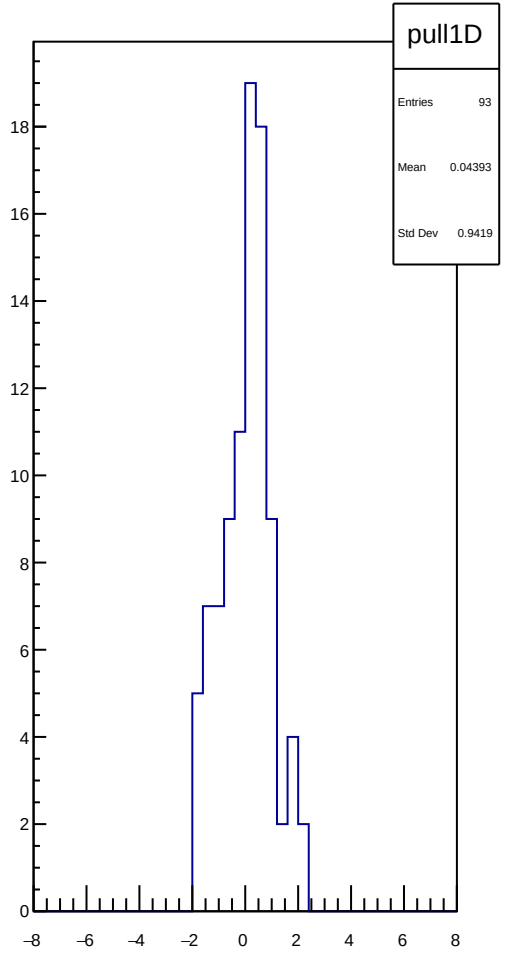

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 7587 / 92
p0 9571 ± 7.111
11000
10500
10000
9500
9000
8500

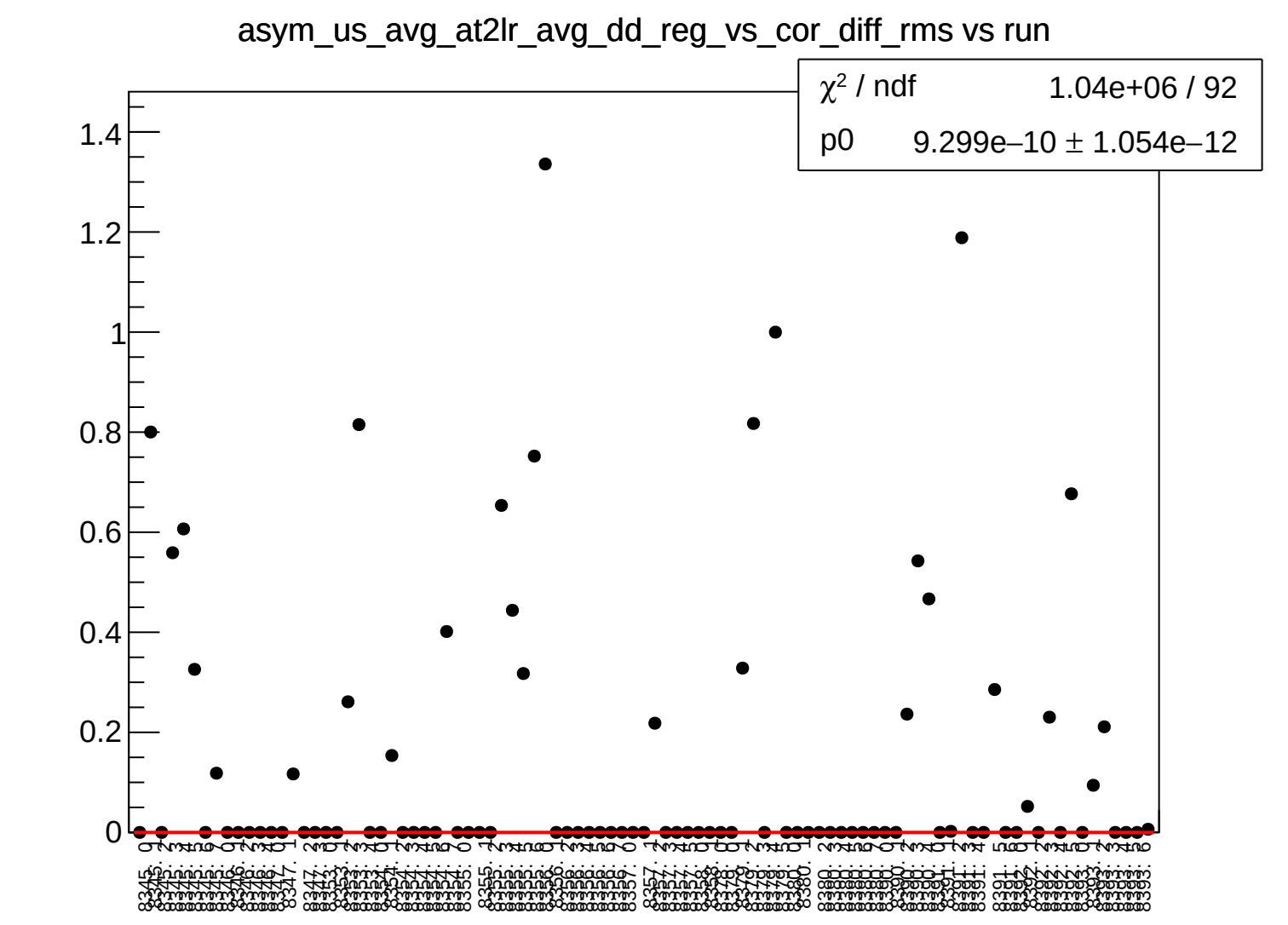

asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ² / ndf 95.53 / 92
p0 1.802e+04 ± 1.018e+04
pull
Entries 93
Mean −154.2
Std Dev 0

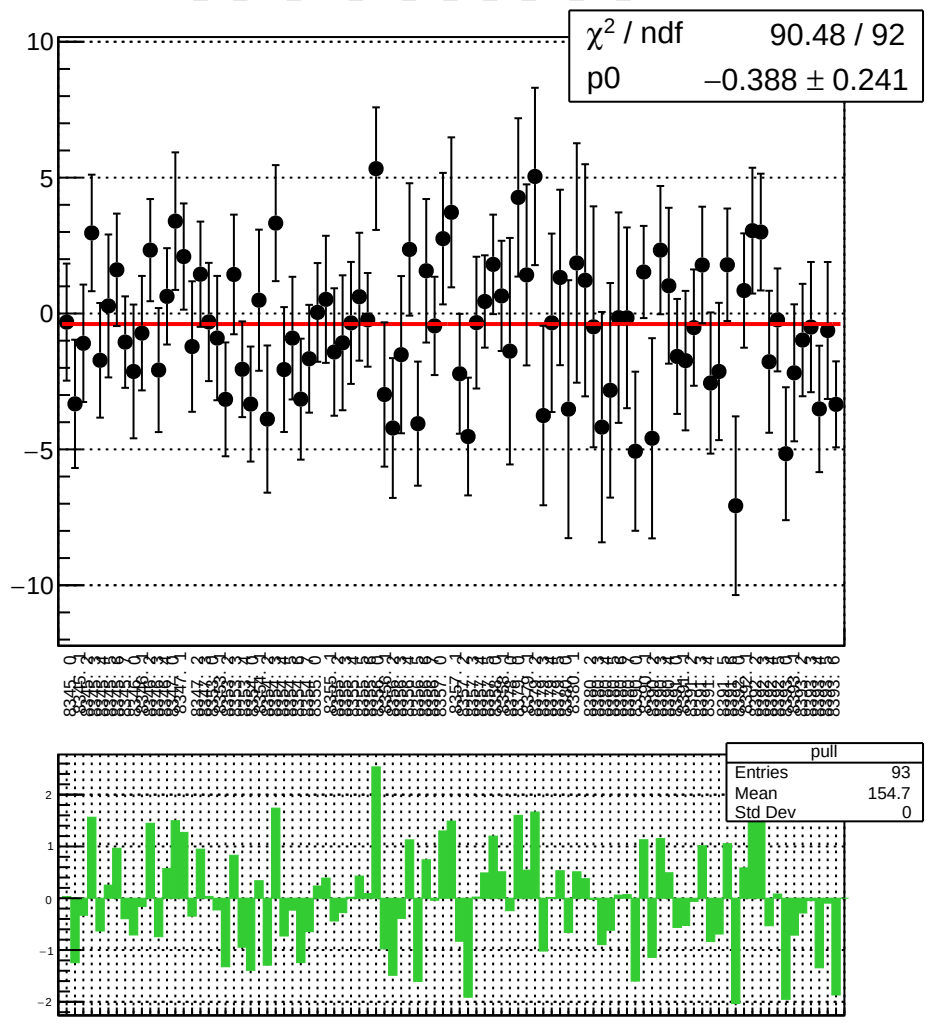

pull1D
Entries 93
Mean −0.02507
Std Dev 1.013

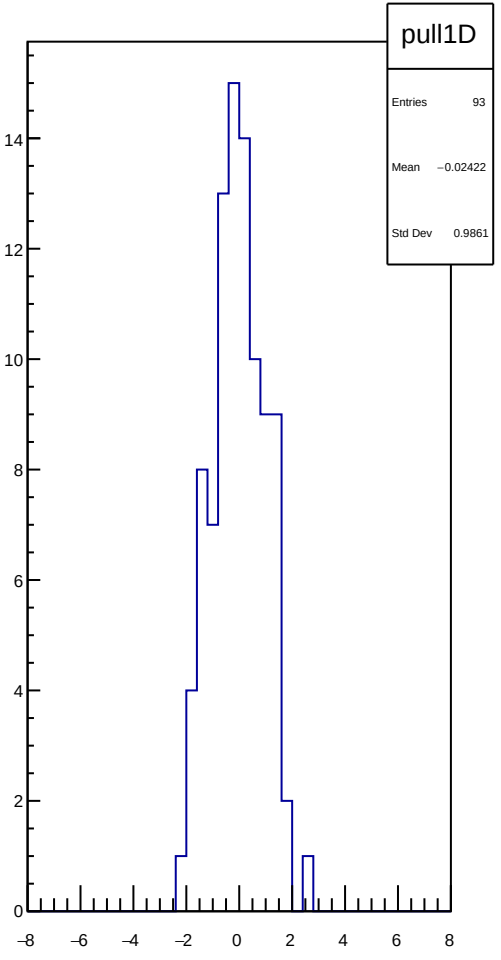

asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 9365 / 92
p0 9680 ± 7.196
11500
11000
10500
10000
9500
9000
8500

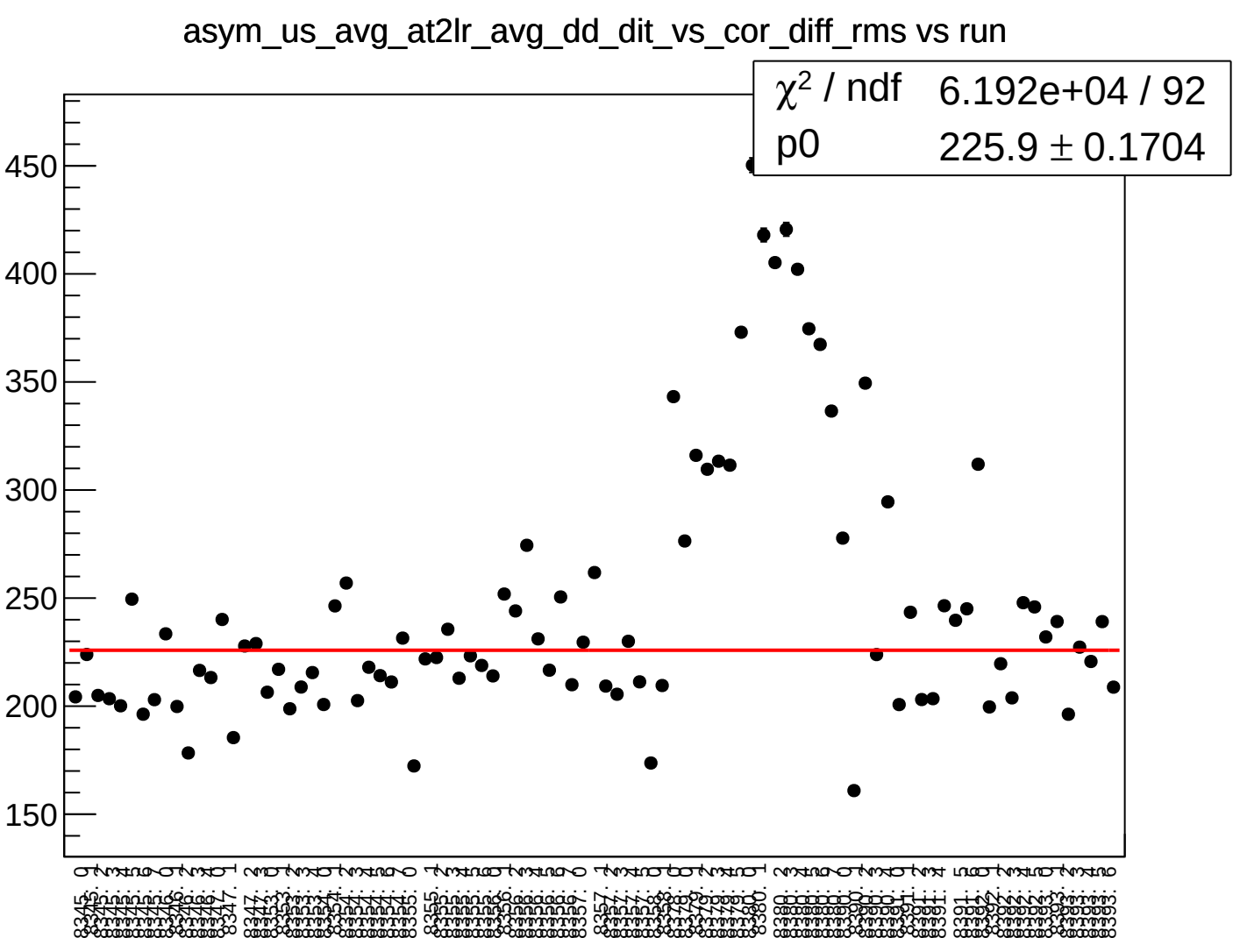

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 82.68 / 92
p0 1.886e−12 ± 1.49e−12
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 93
Mean 94.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

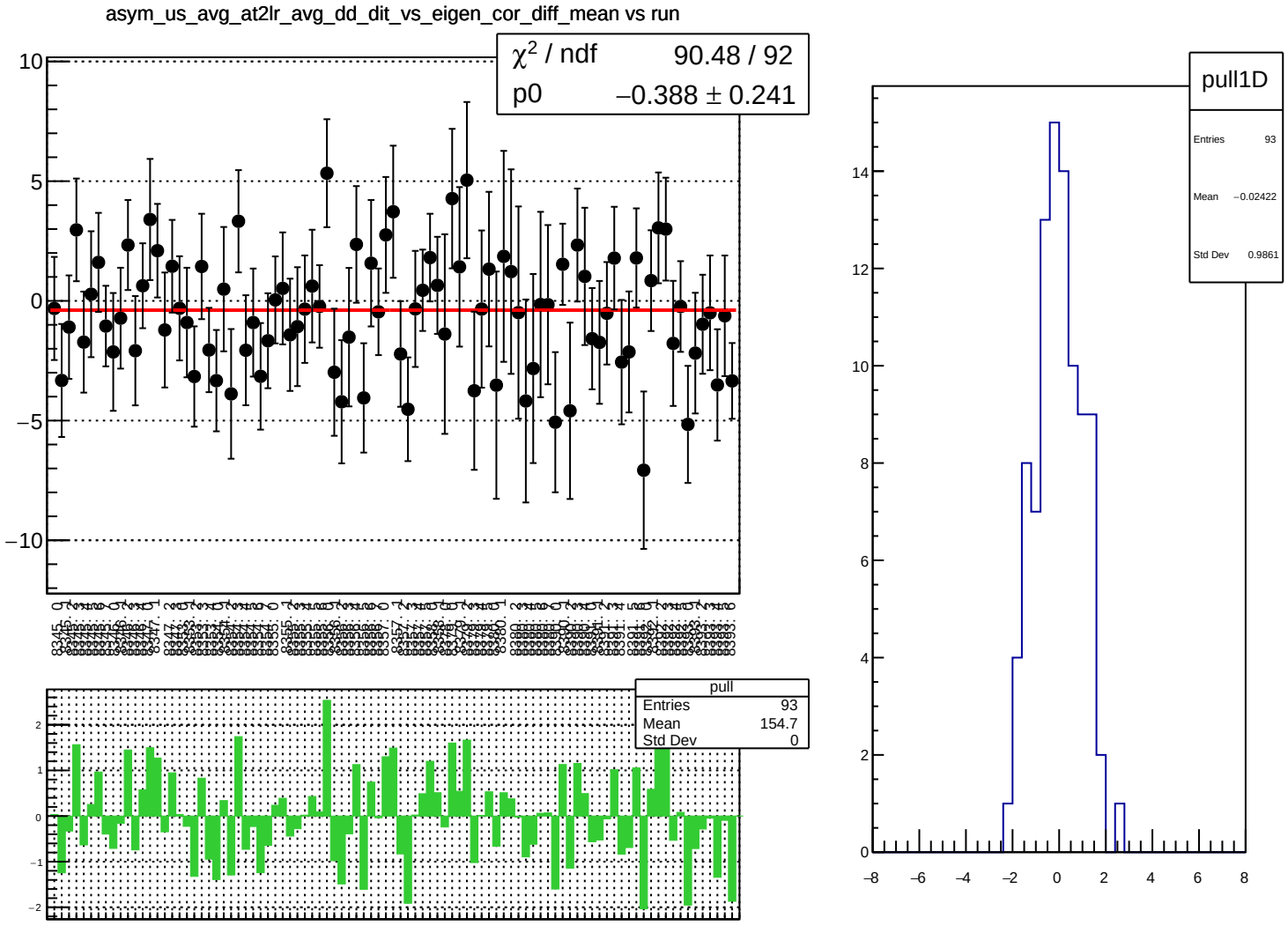

pull1D
Entries 93
Mean 0.04393
Std Dev 0.9419
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

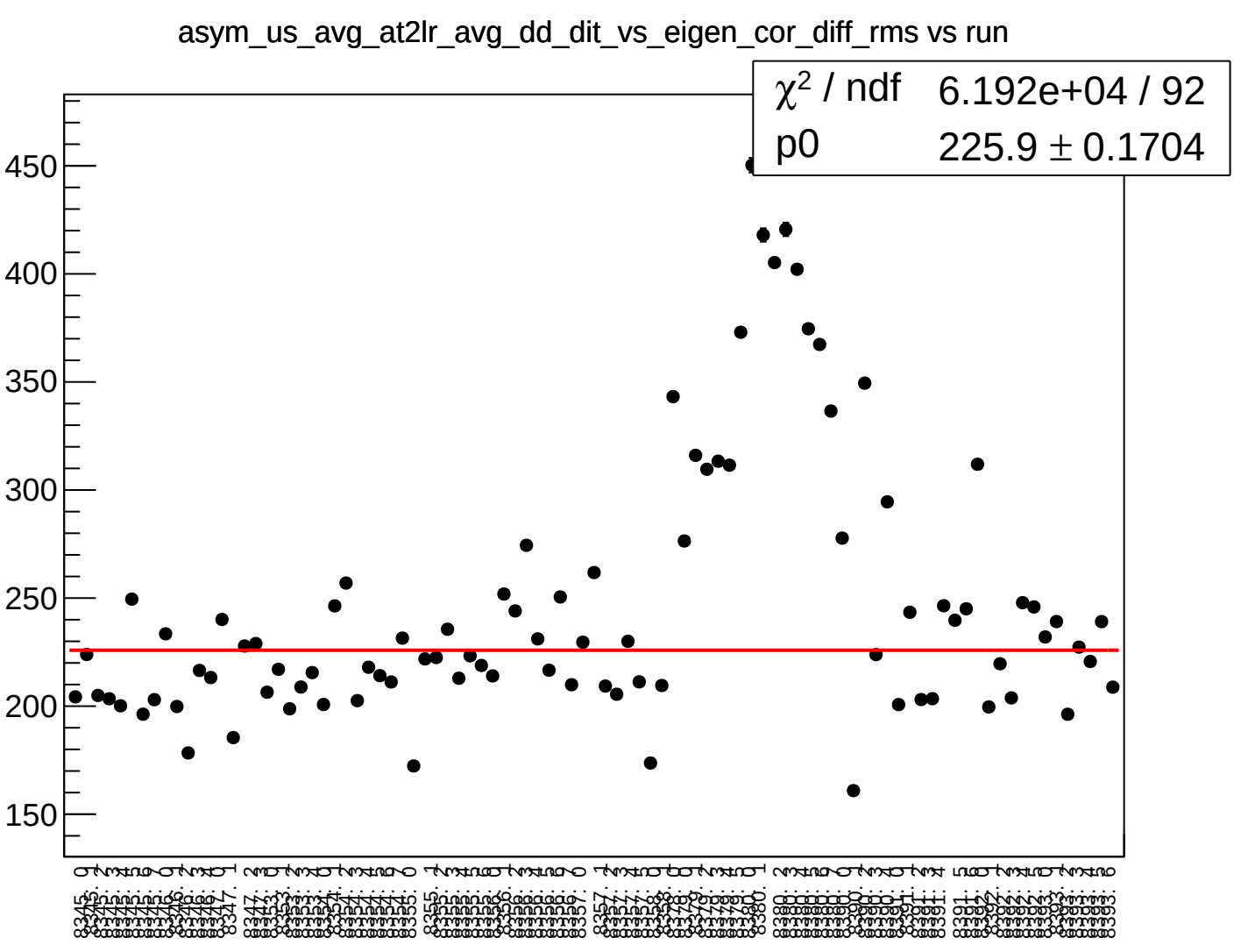

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.04e+06 / 92
p0 9.299e−10 ± 1.054e−12
1.4
1.2
1
0.8
0.6
0.4
0.2
0

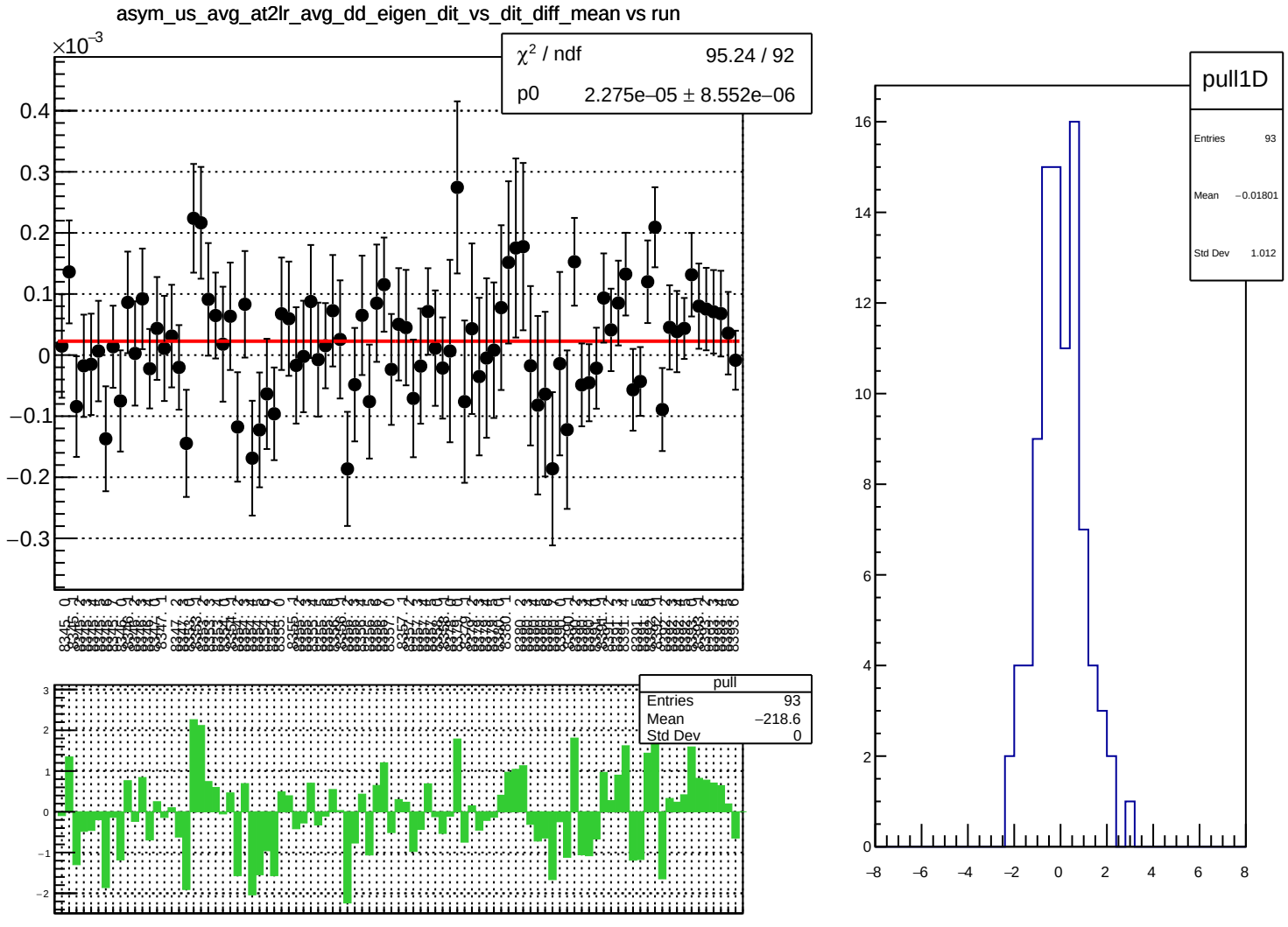

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 90.48 / 92
p0 −0.388 ± 0.241
pull
Entries 93
Mean 154.7
Std Dev 0

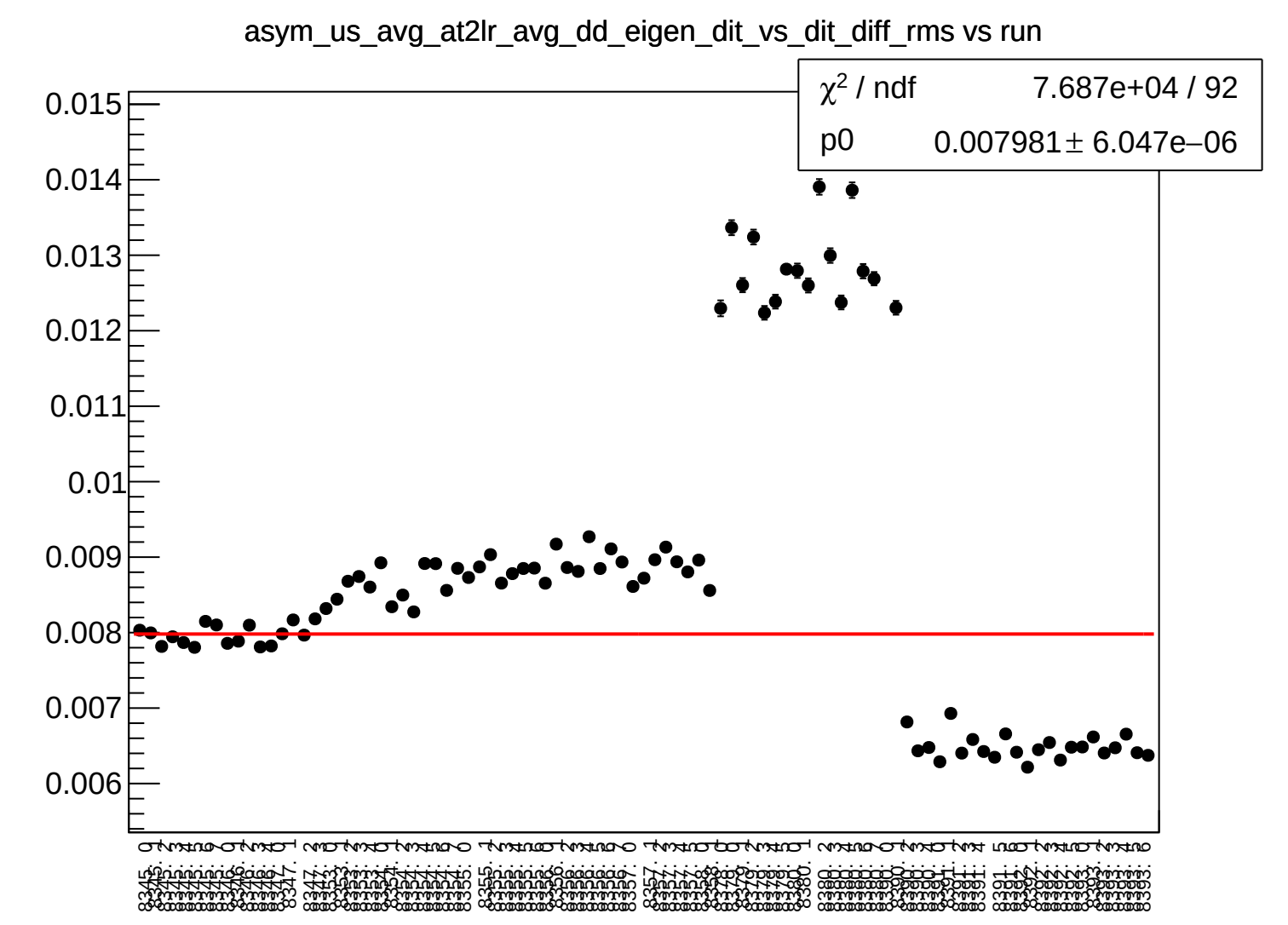

pull1D
Entries 93
Mean −0.02422
Std Dev 0.9861

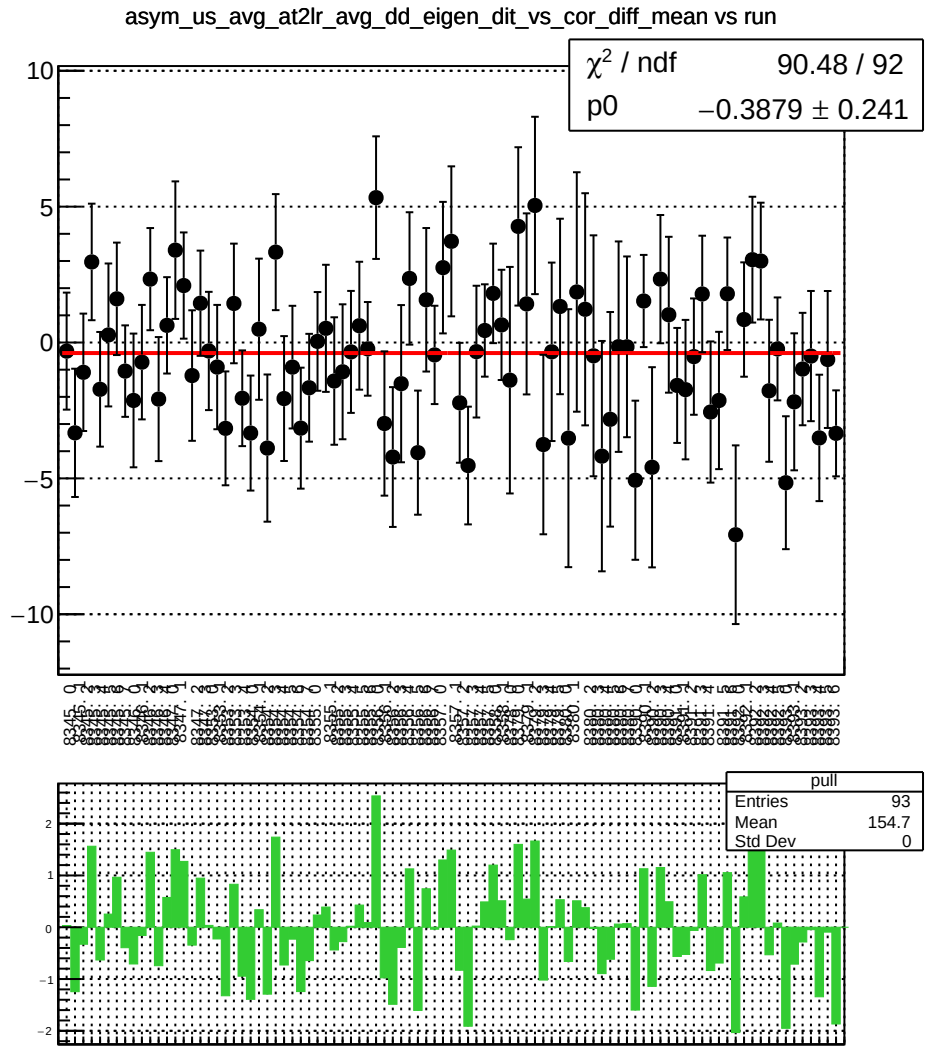

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.192e+04 / 92
p0 225.9 ± 0.1704
450
400
350
300
250
200
150

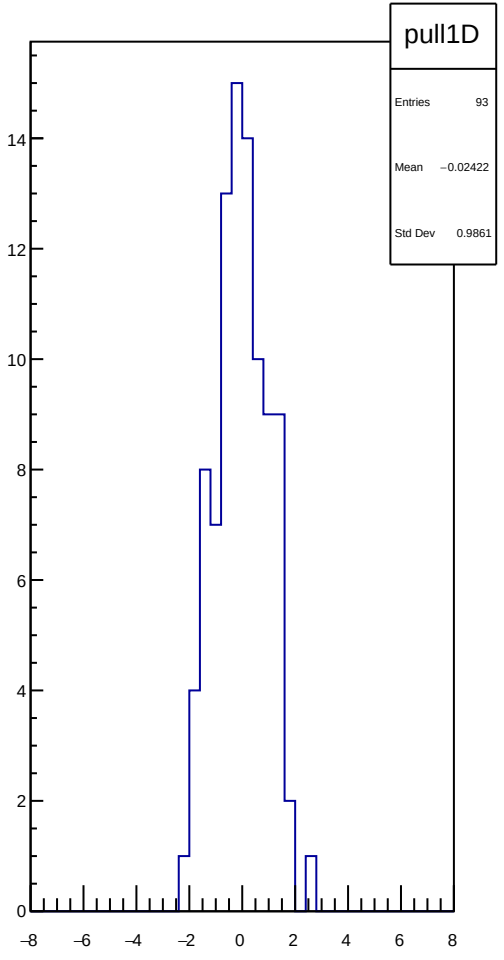

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.48 / 92
p0 −0.388 ± 0.241
pull
Entries 93
Mean 154.7
Std Dev 0
pull1D
Entries 93
Mean −0.02422
Std Dev 0.9861

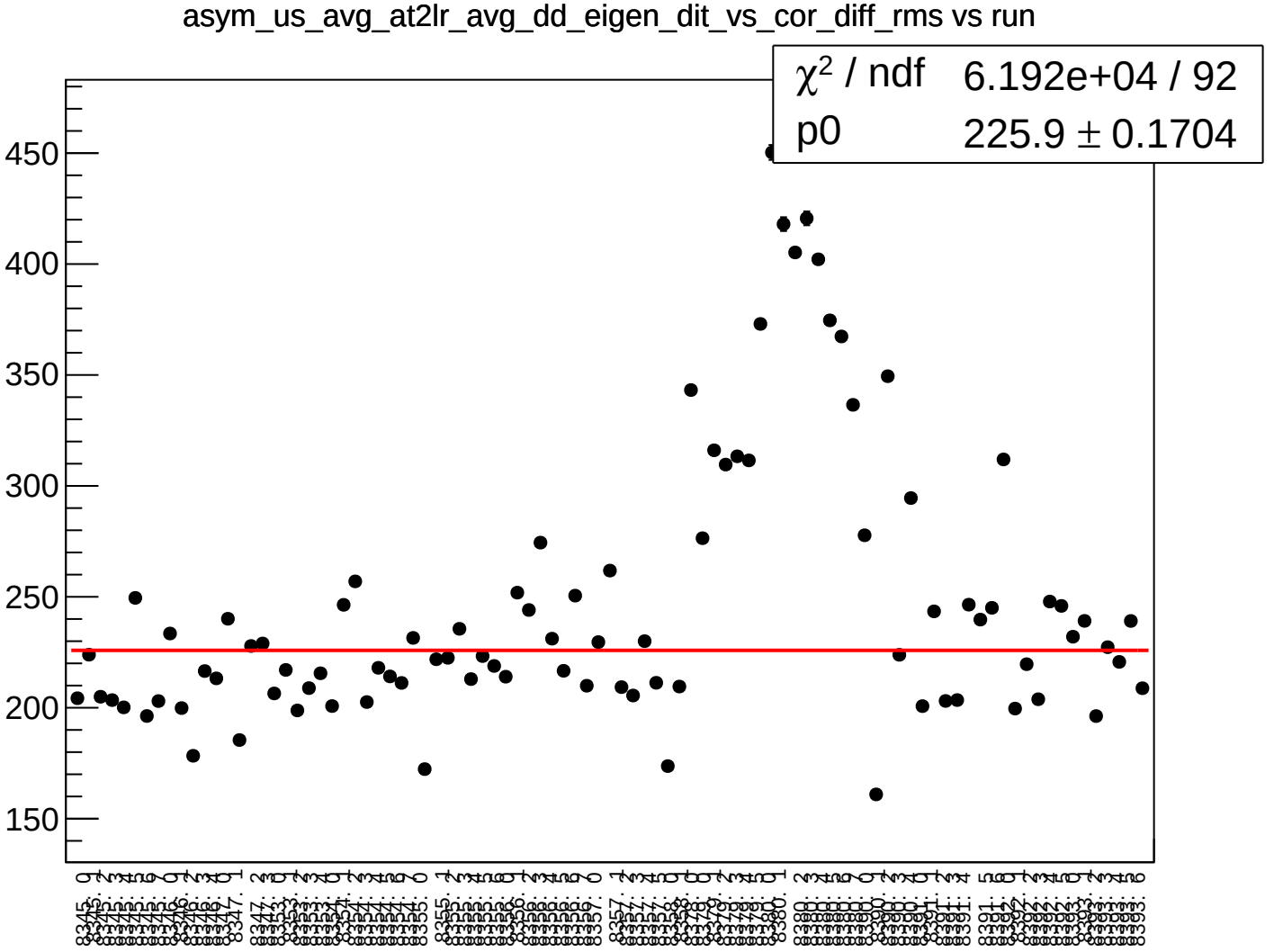

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.192e+04 / 92
p0 225.9 ± 0.1704
450
400
350
300
250
200
150

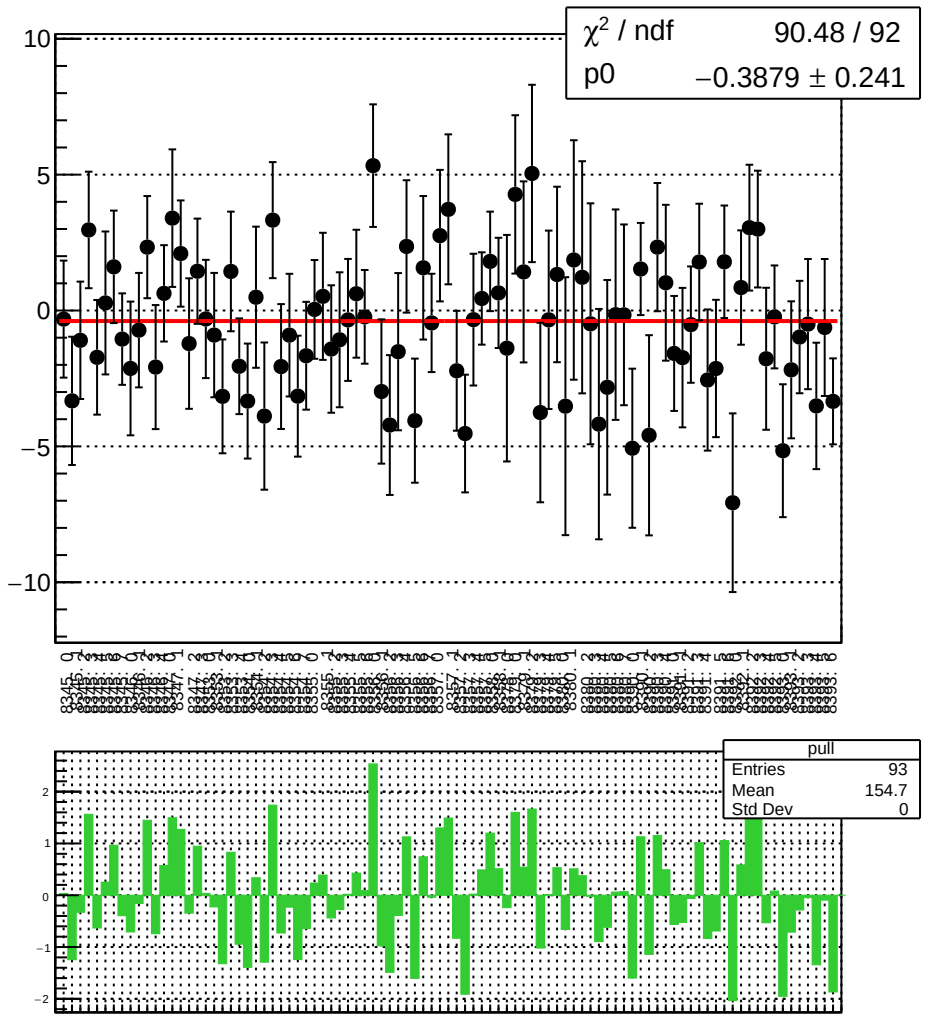

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.24 / 92
p0 2.275e−05 ± 8.552e−06
pull
Entries 93
Mean −218.6
Std Dev 0
pull1D
Entries 93
Mean −0.01801
Std Dev 1.012

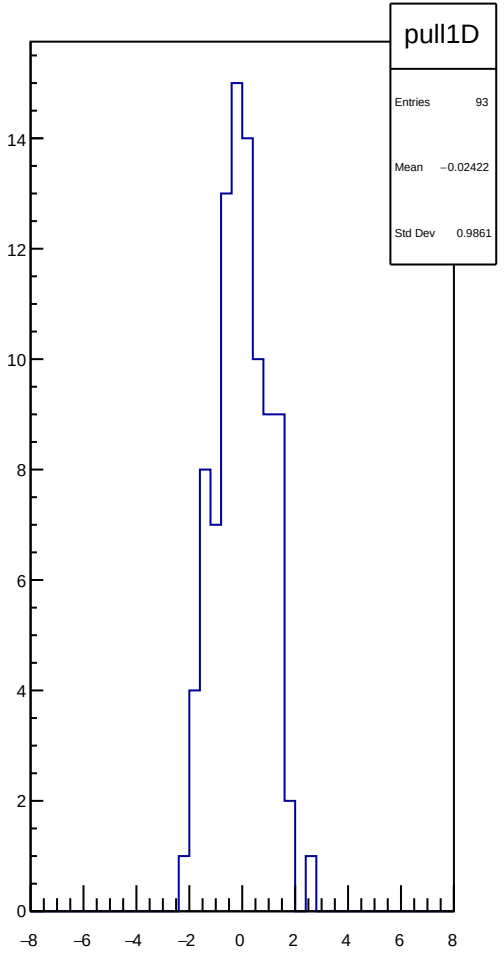

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.687e+04 / 92
p0 0.007981 ± 6.047e−06
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006

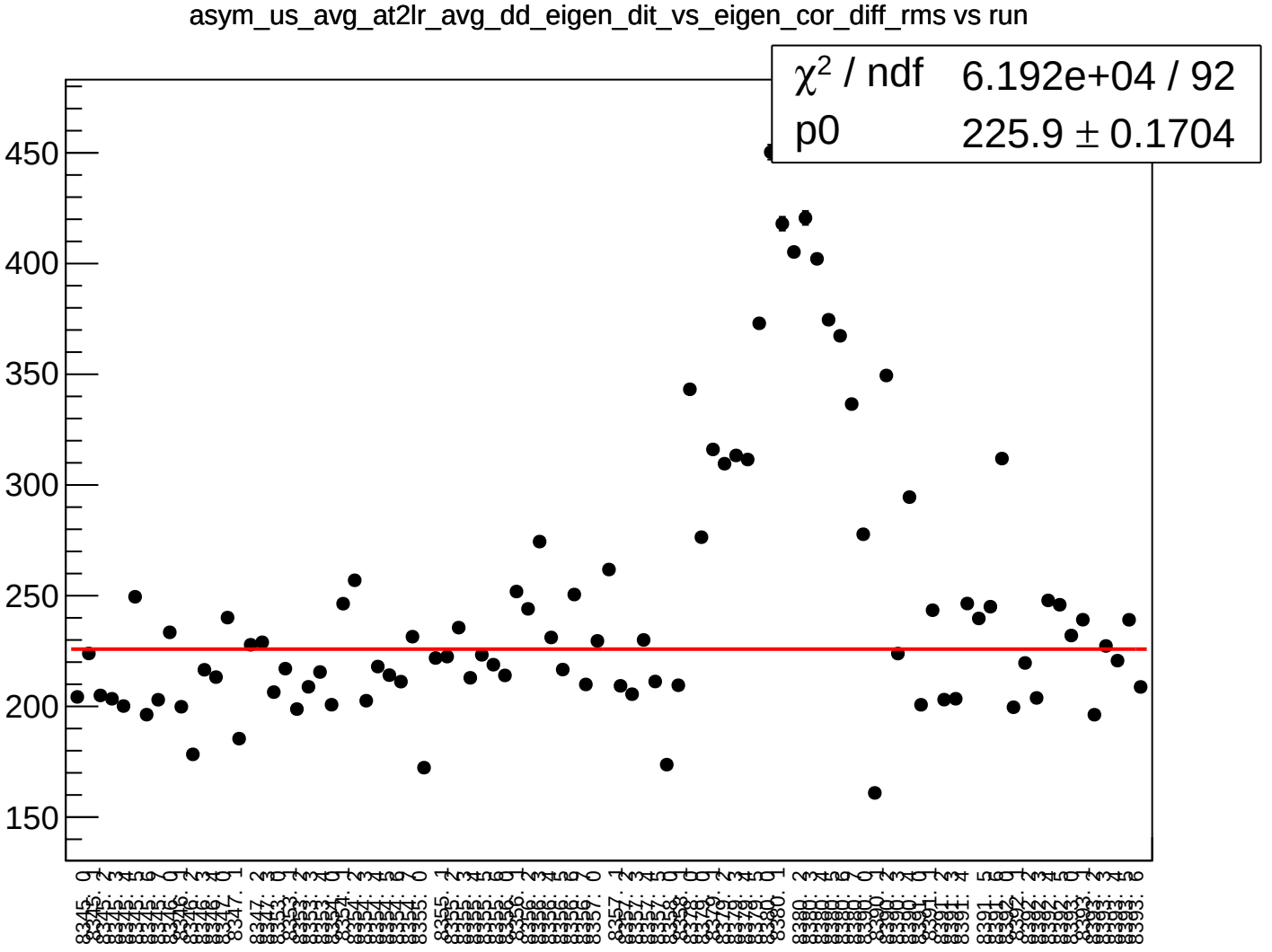

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.48 / 92
p0 −0.3879 ± 0.241
pull
Entries 93
Mean 154.7
Std Dev 0

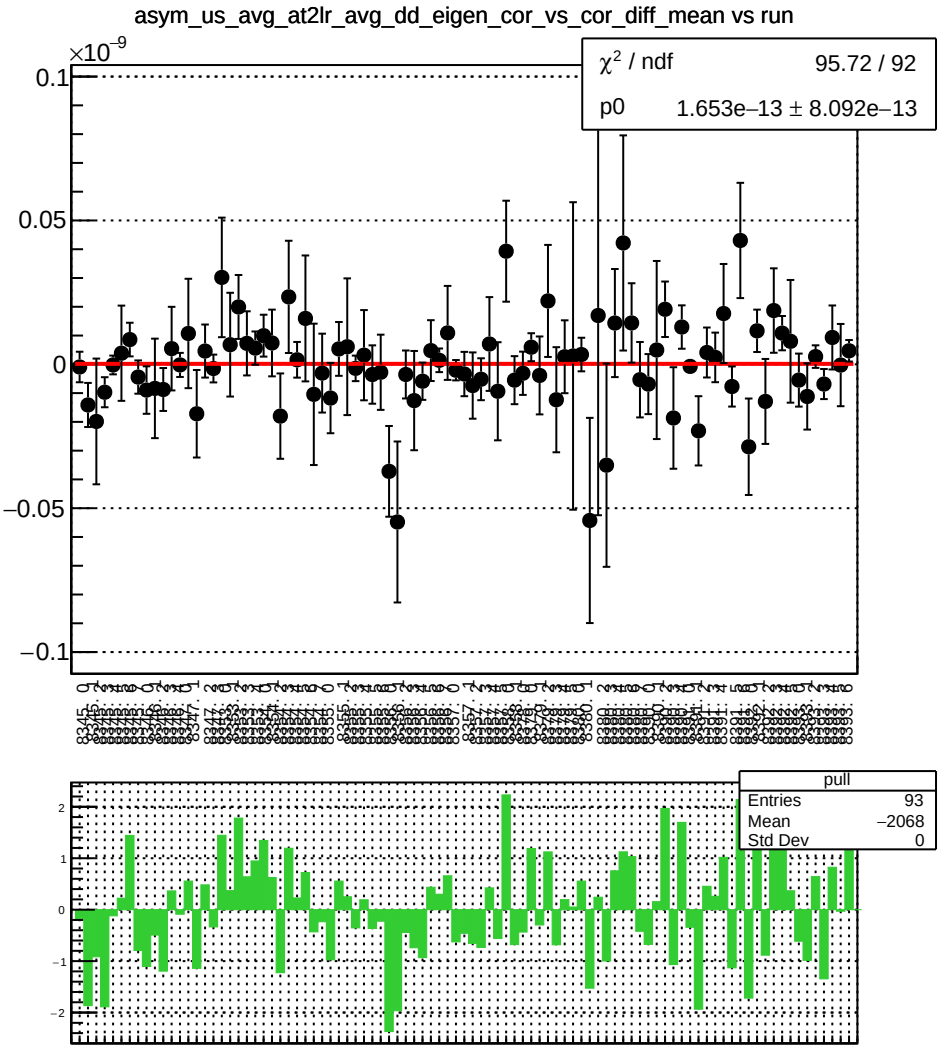

pull1D
Entries 93
Mean −0.02422
Std Dev 0.9861

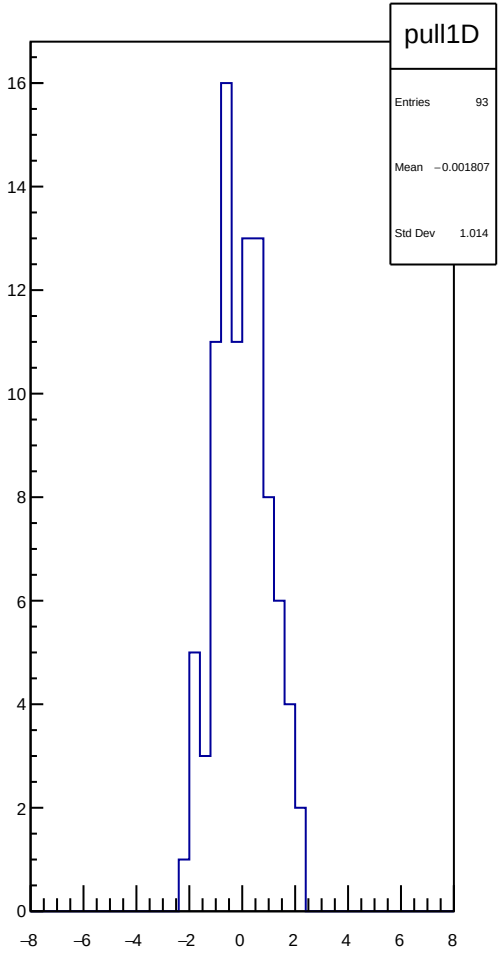

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.192e+04 / 92
p0 225.9 ± 0.1704
450
400
350
300
250
200
150

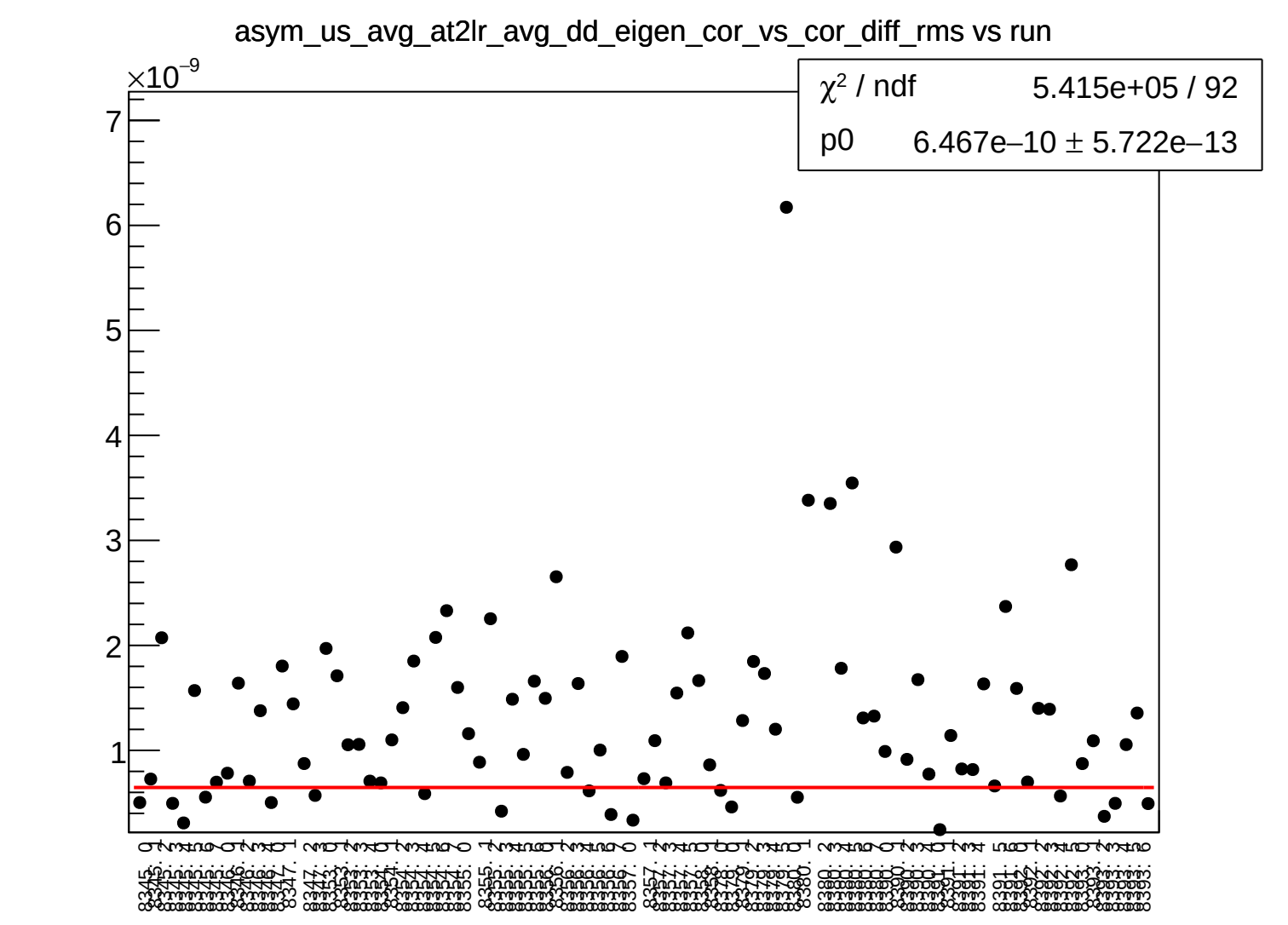

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.48 / 92
p0 −0.3879 ± 0.241
pull
Entries 93
Mean 154.7
Std Dev 0

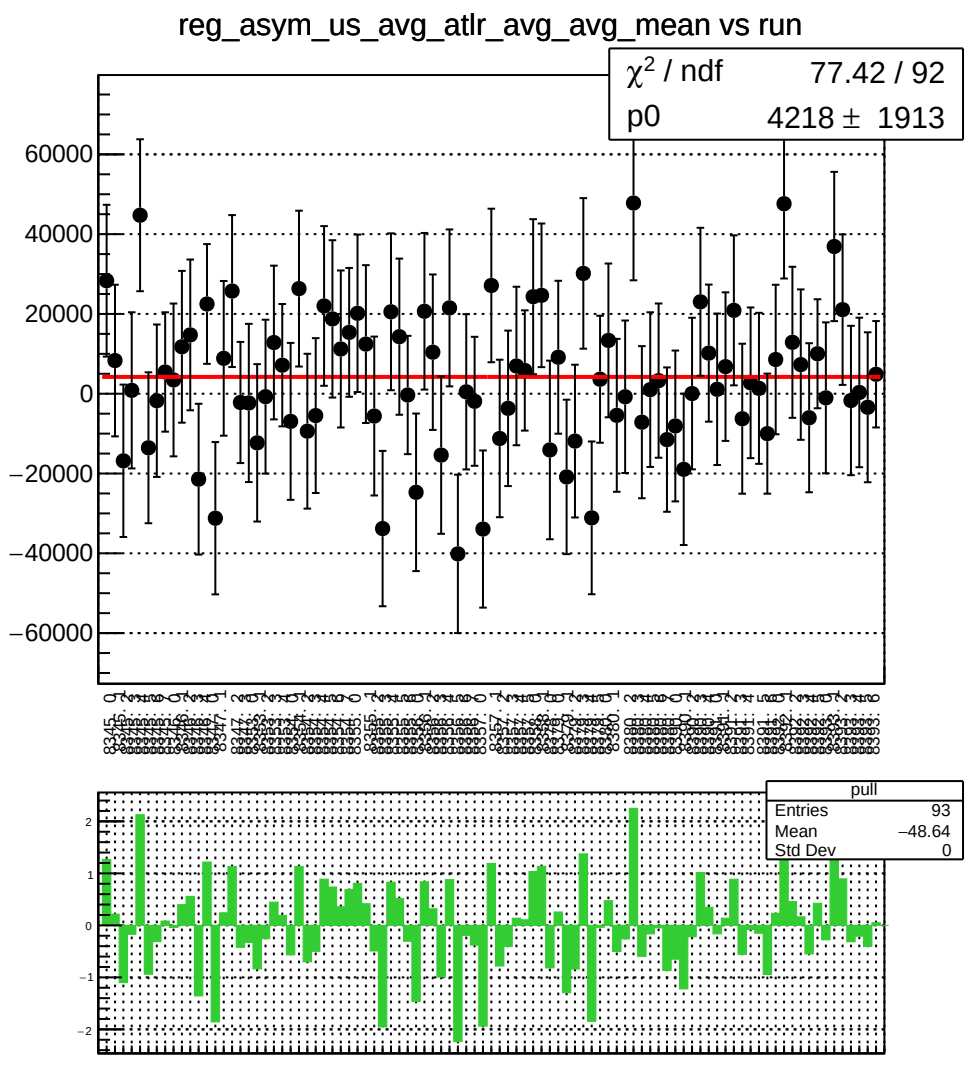

pull1D
Entries 93
Mean −0.02422
Std Dev 0.9861

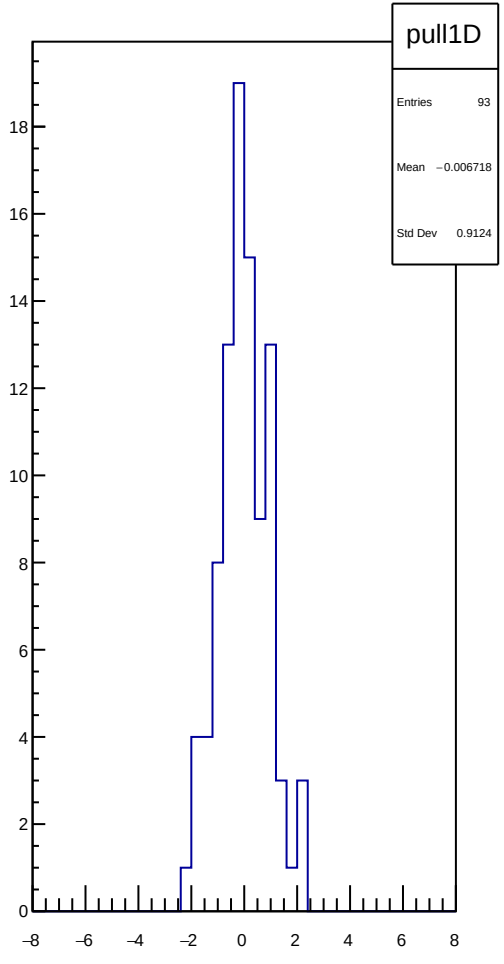

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.192e+04 / 92
p0 225.9 ± 0.1704
450
400
350
300
250
200
150

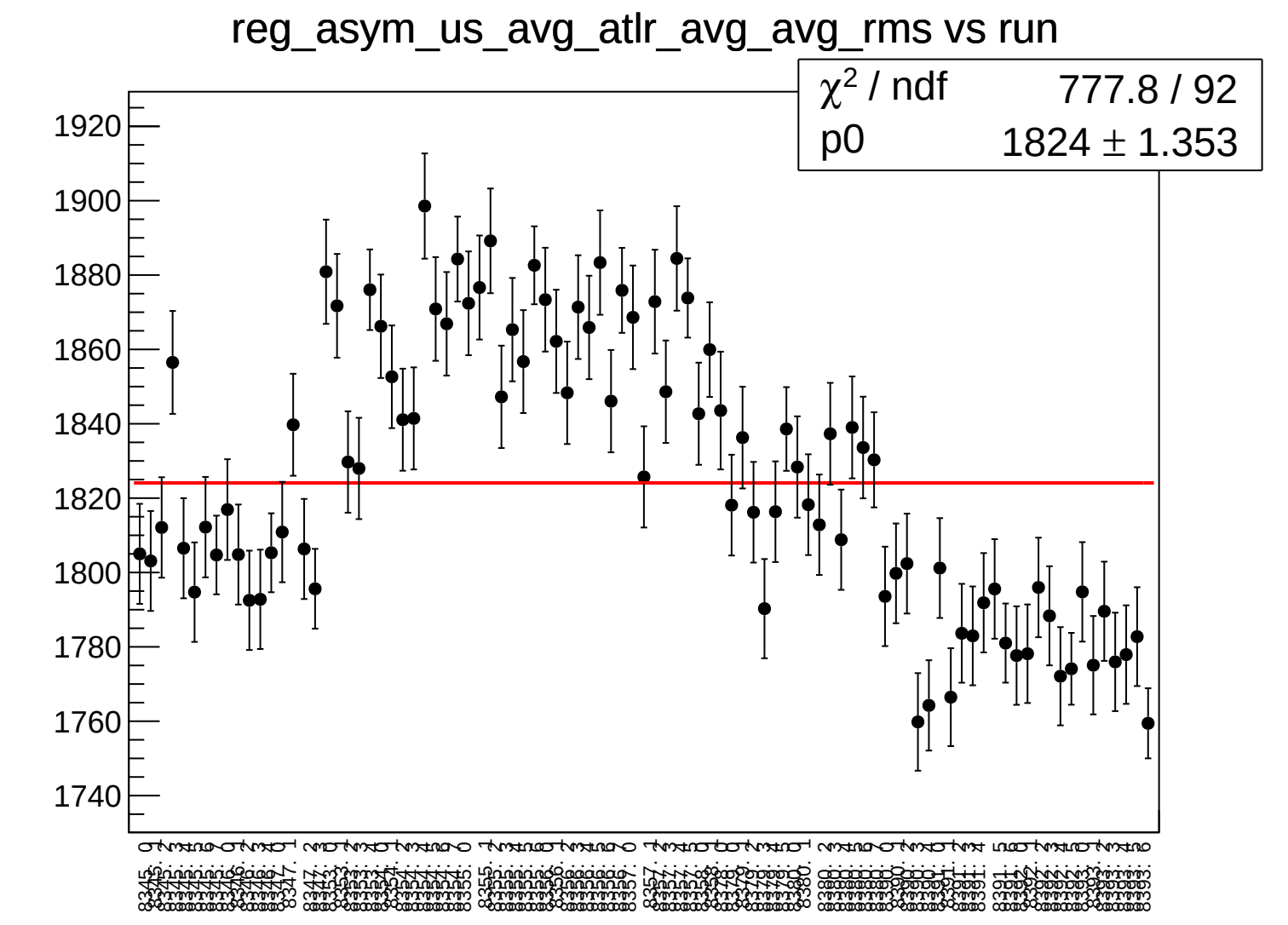

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 95.72 / 92
p0 1.653e−13 ± 8.092e−13
0.1
0.05
0
−0.05
−0.1
pull
Entries 93
Mean −2068
Std Dev 0
2
1
0
−1
−2

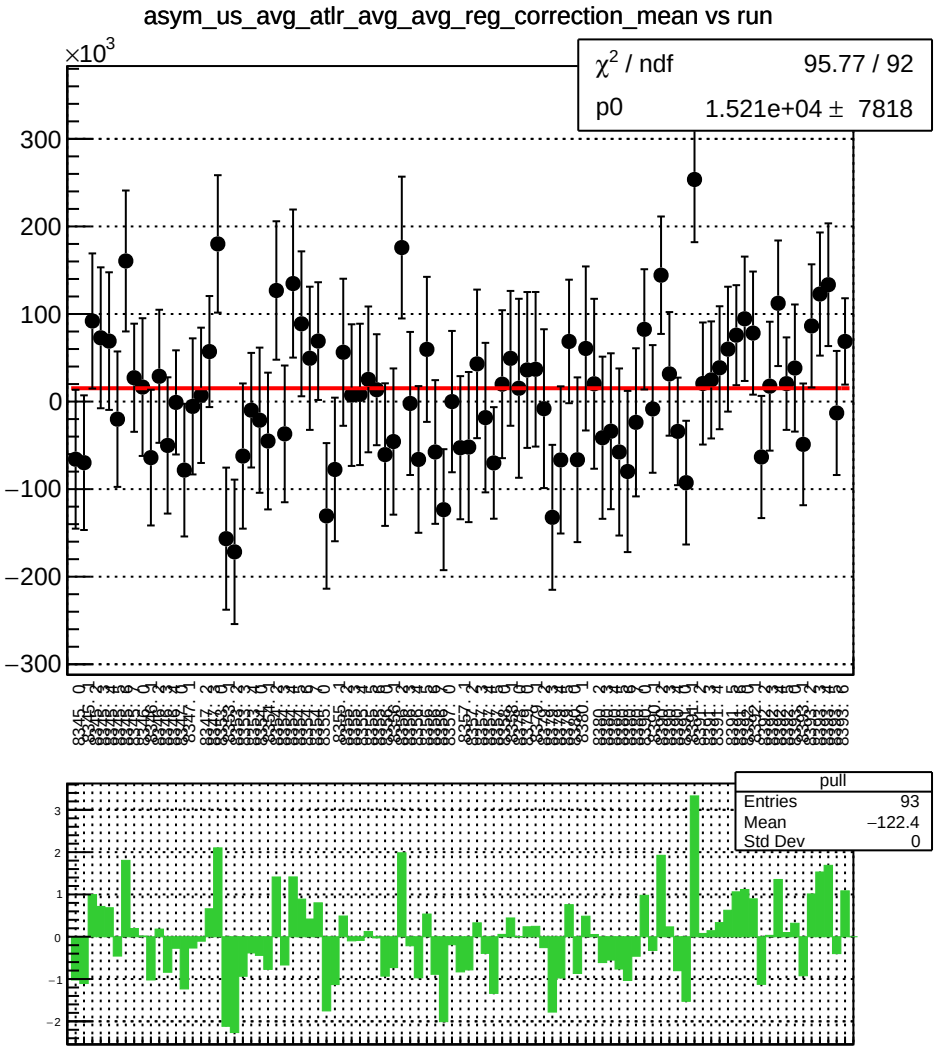

pull1D
Entries 93
Mean −0.001807
Std Dev 1.014
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

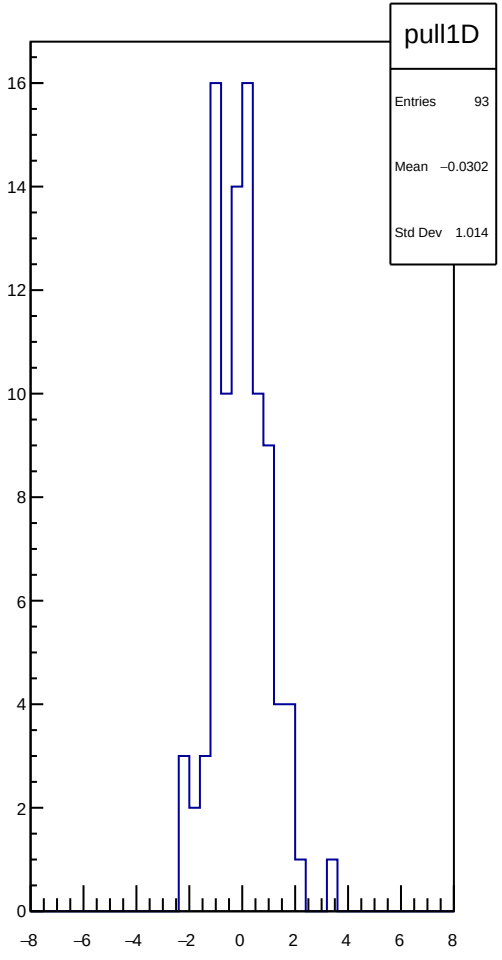

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.415e+05 / 92
p0 6.467e−10 ± 5.722e−13
7
6
5
4
3
2
1

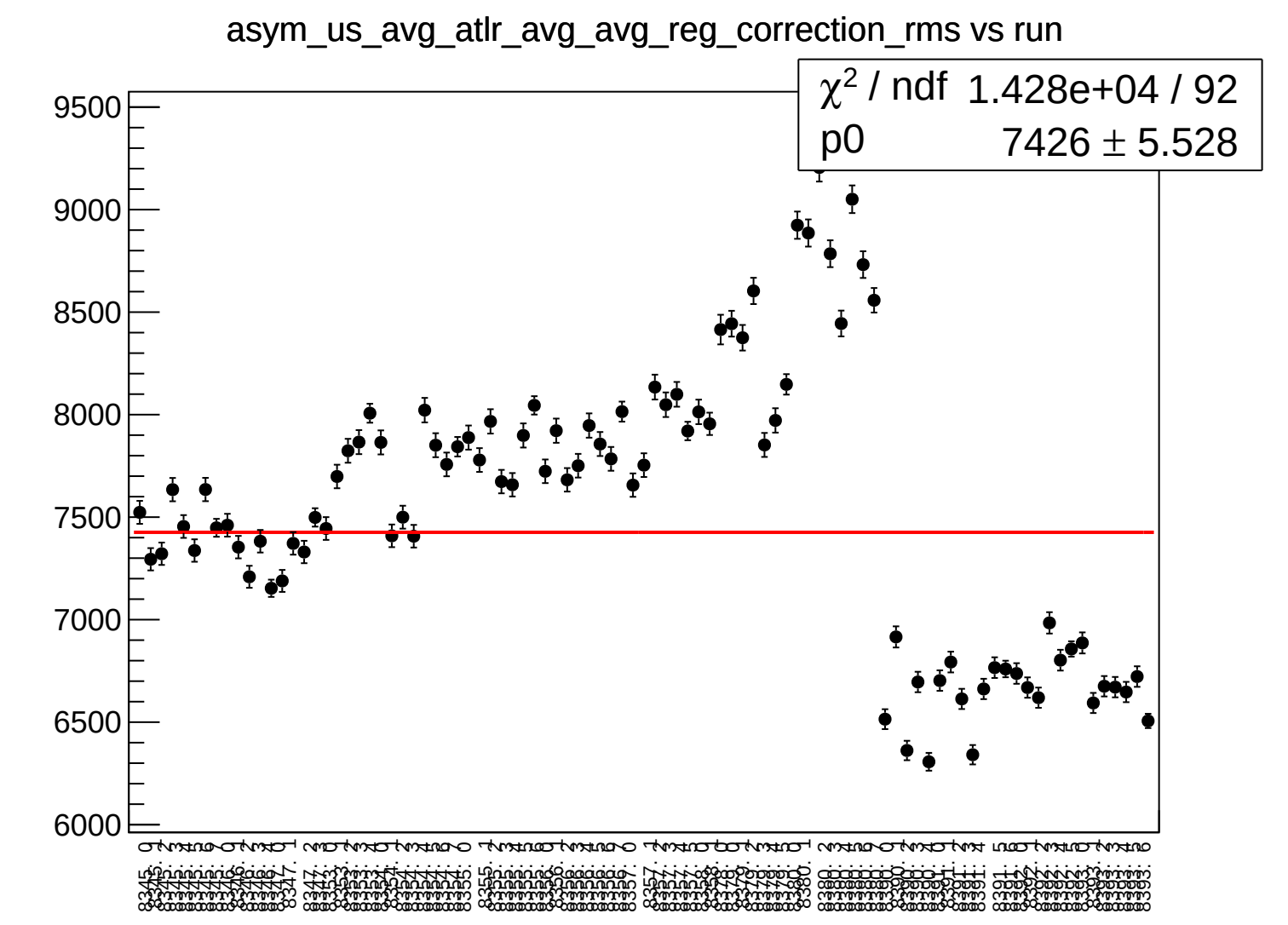

reg_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 77.42 / 92
p0 4218 ± 1913
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −48.64
Std Dev 0
2
1
0
−1
−2

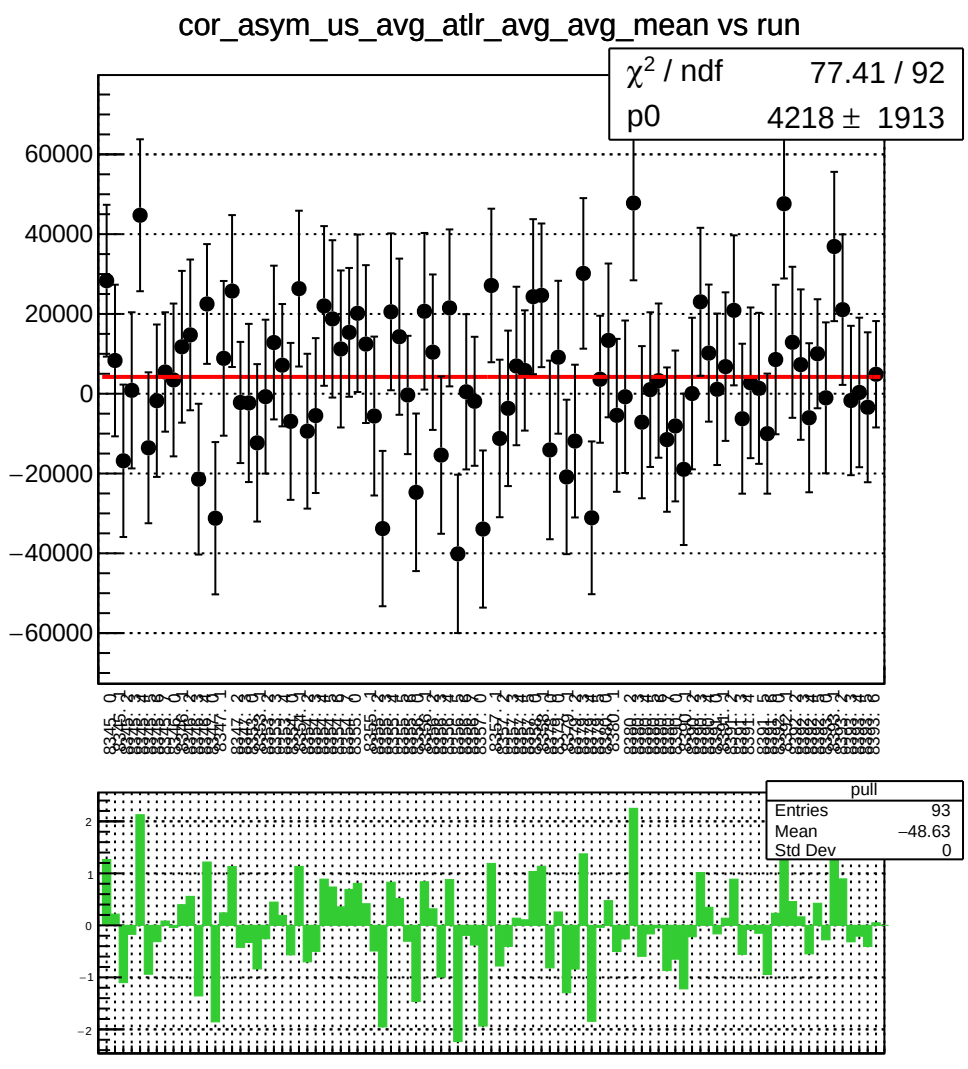

pull1D
Entries 93
Mean −0.006718
Std Dev 0.9124
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

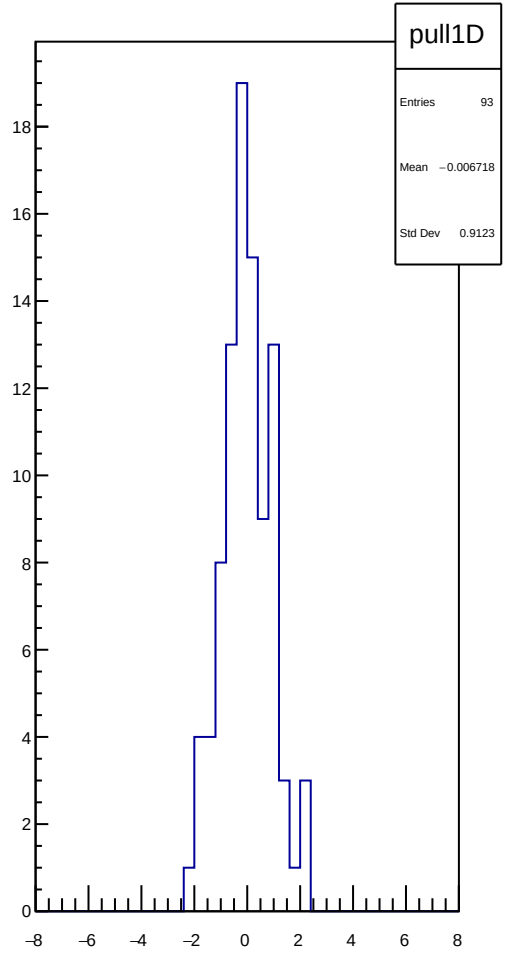

reg_asym_us_avg_atlr_avg_avg_rms vs run
χ^2 / ndf 777.8 / 92
p0 1824 ± 1.353
1920
1900
1880
1860
1840
1820
1800
1780
1760
1740

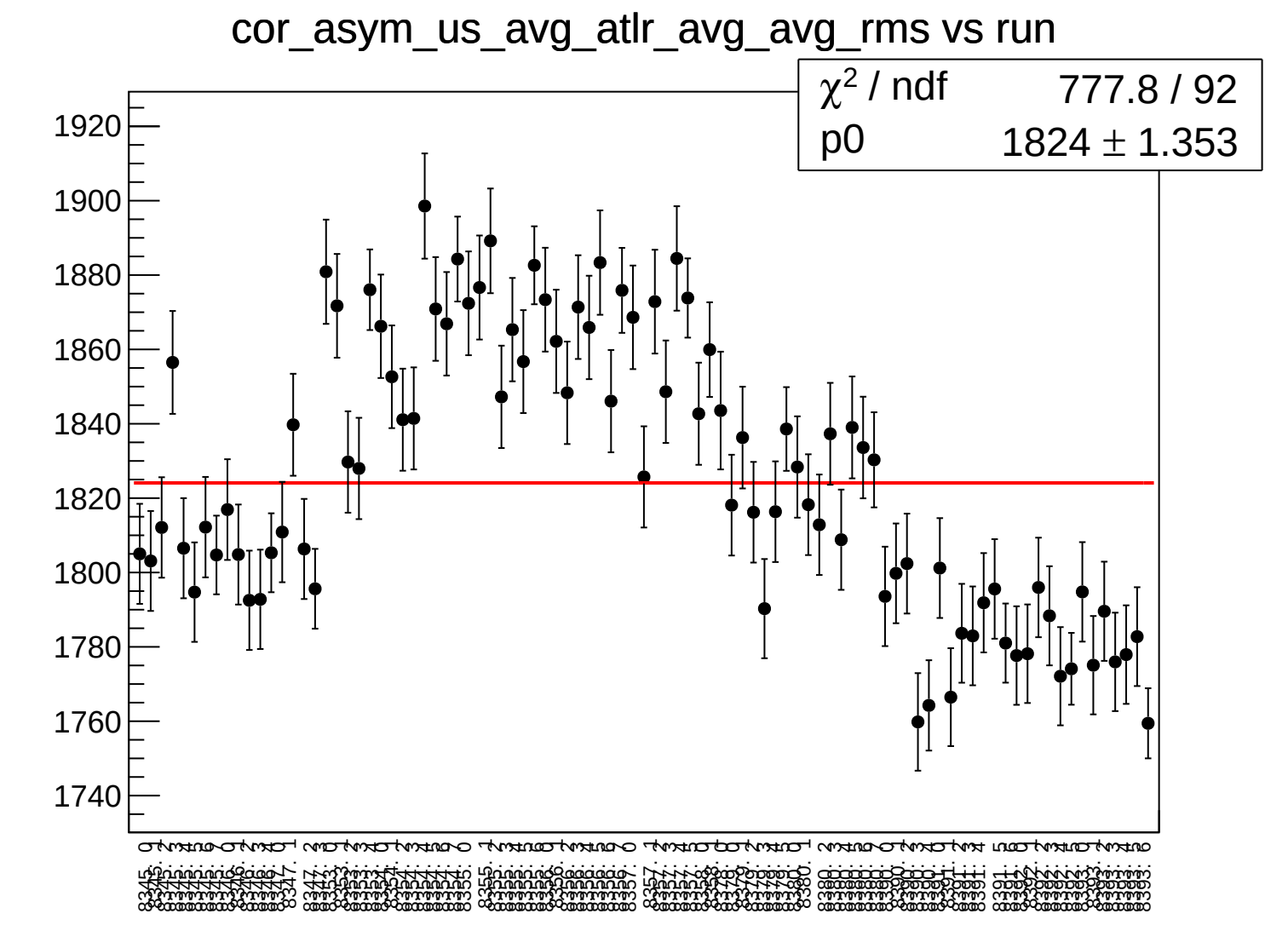

asym_us_avg_atlr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 95.77 / 92
p0 1.521e+04 ± 7818
300
200
100
0
−100
−200
−300
pull
Entries 93
Mean −122.4
Std Dev 0
3
2
1
0
−1
−2

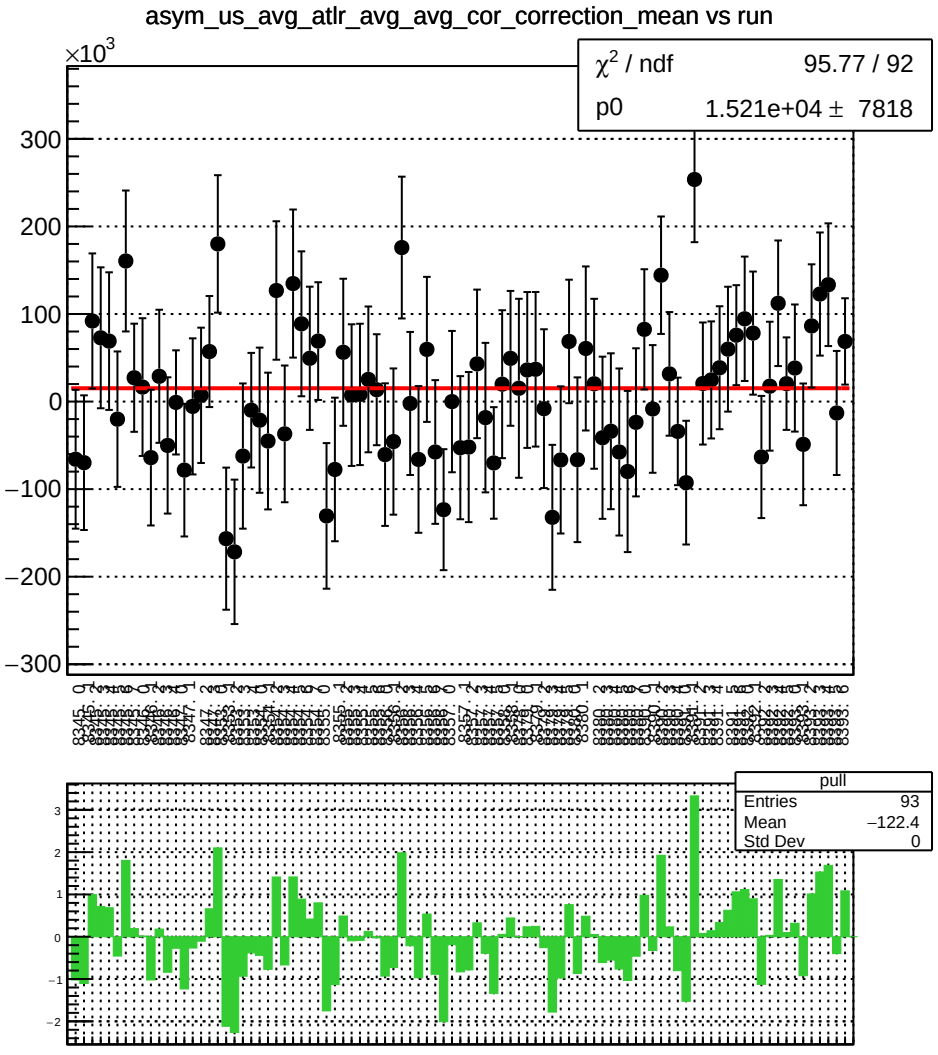

pull1D
Entries 93
Mean −0.0302
Std Dev 1.014
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

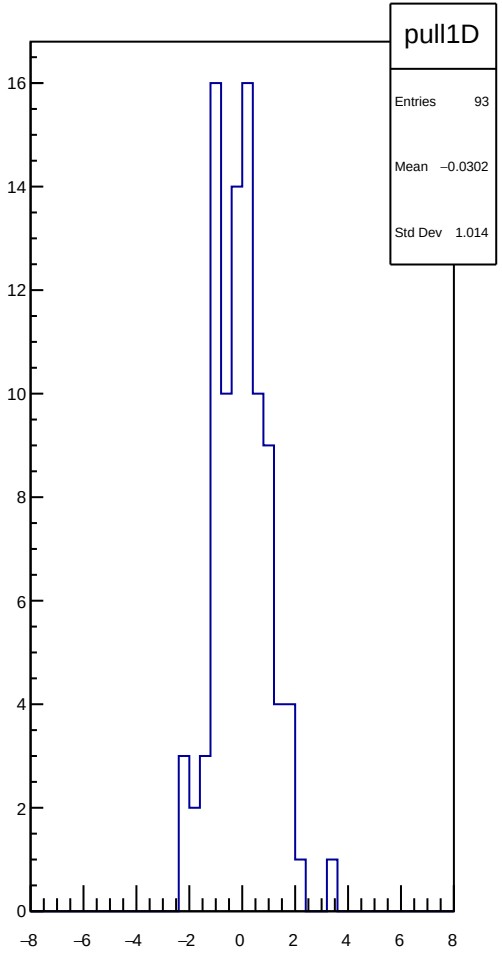

asym_us_avg_atlr_avg_avg_reg_correction_rms vs run
χ² / ndf 1.428e+04 / 92
p0 7426 ± 5.528
9500
9000
8500
8000
7500
7000
6500
6000

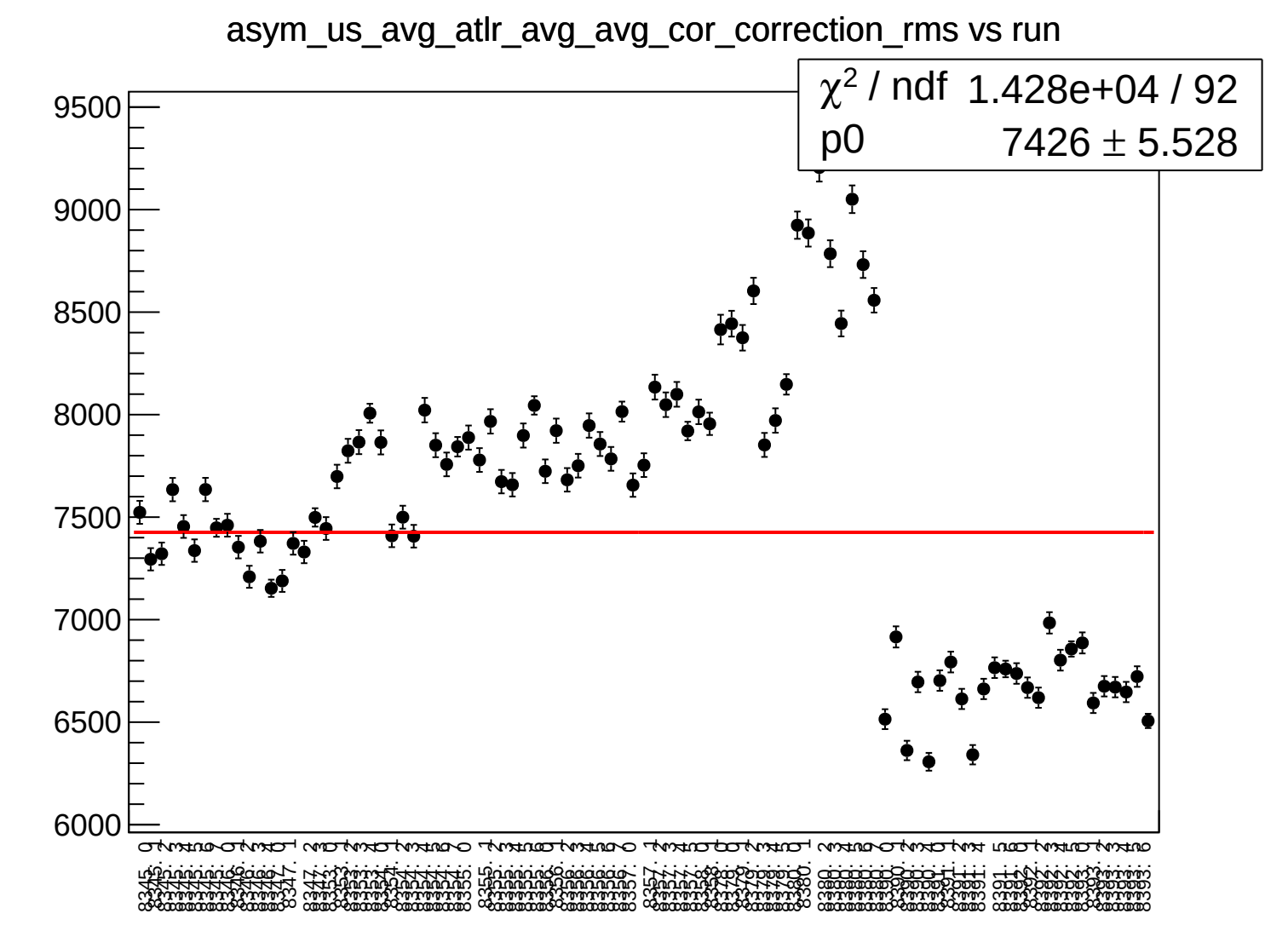

cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 77.41 / 92
p0 4218 ± 1913
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −48.63
Std Dev 0
2
1
0
−1
−2

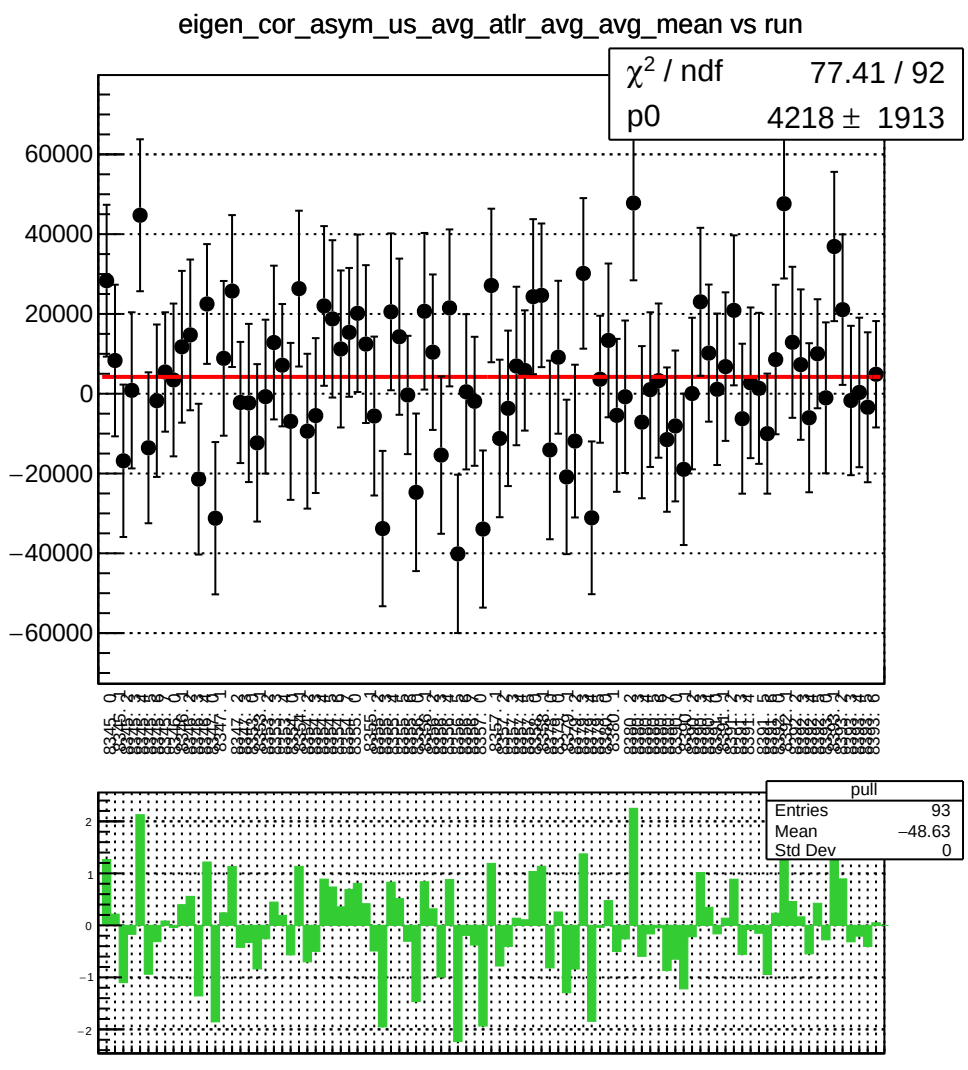

pull1D
Entries 93
Mean −0.006718
Std Dev 0.9123
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

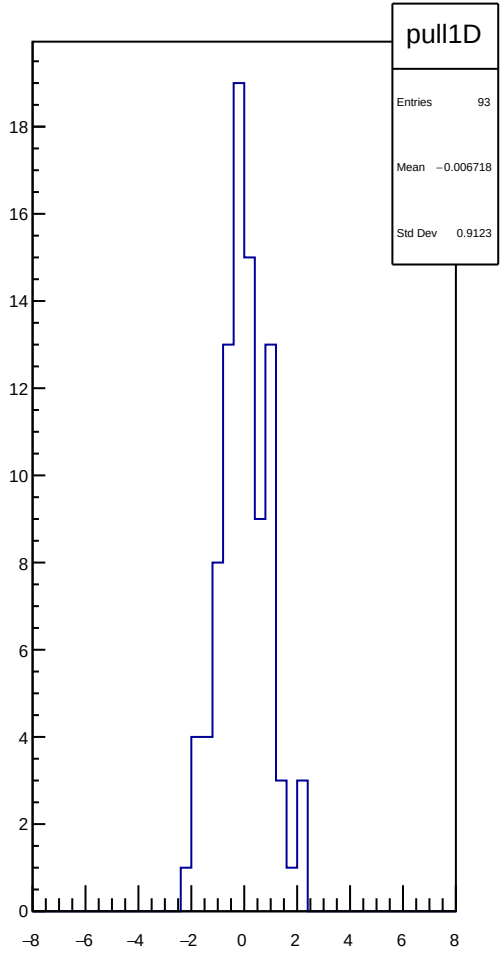

cor_asym_us_avg_atlr_avg_avg_rms vs run
χ^2 / ndf 777.8 / 92
p0 1824 ± 1.353
1920
1900
1880
1860
1840
1820
1800
1780
1760
1740

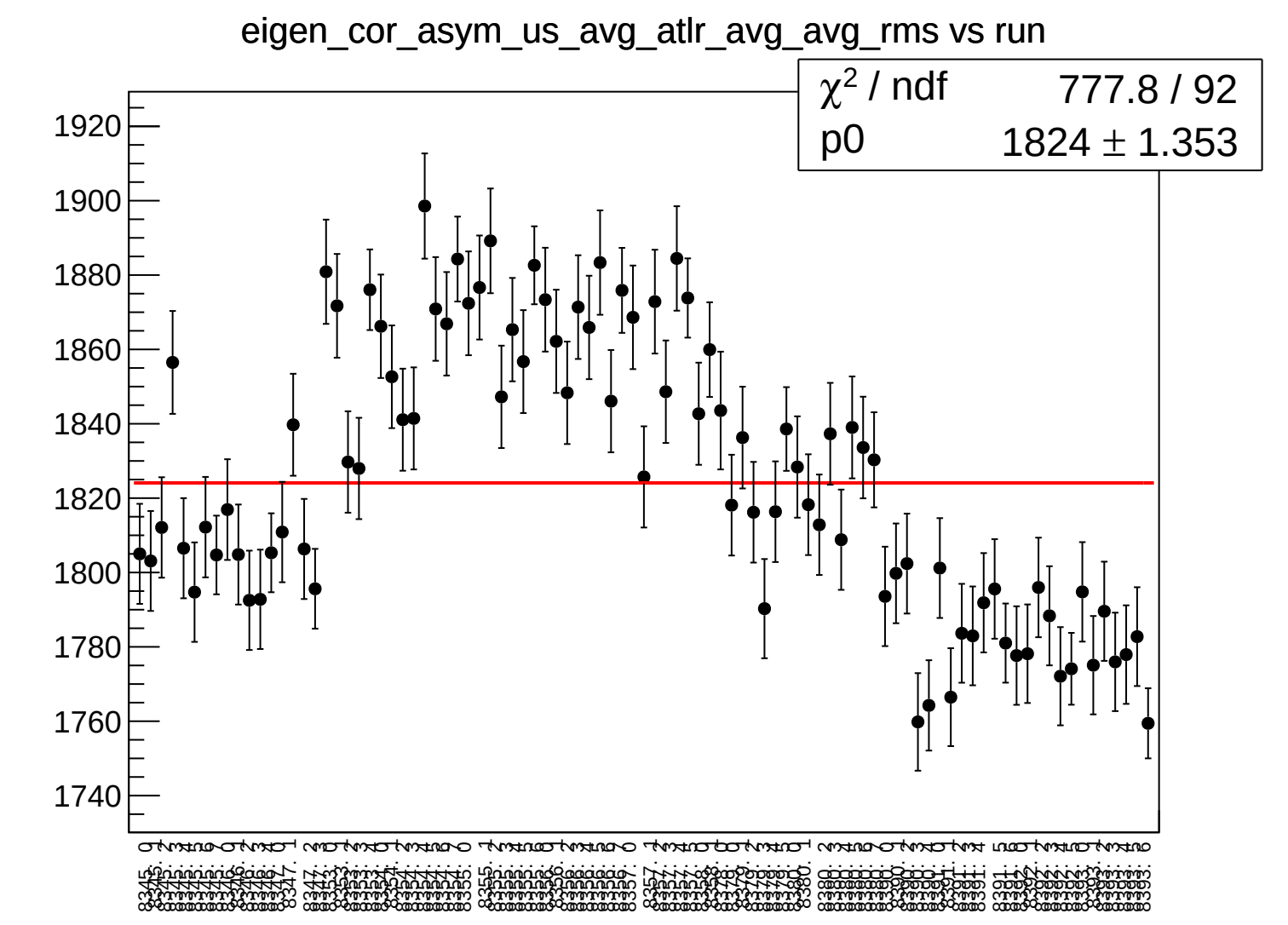

asym_us_avg_atlr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 95.77 / 92
p0 1.521e+04 ± 7818
300
200
100
0
−100
−200
−300
pull
Entries 93
Mean −122.4
Std Dev 0
3
2
1
0
−1
−2

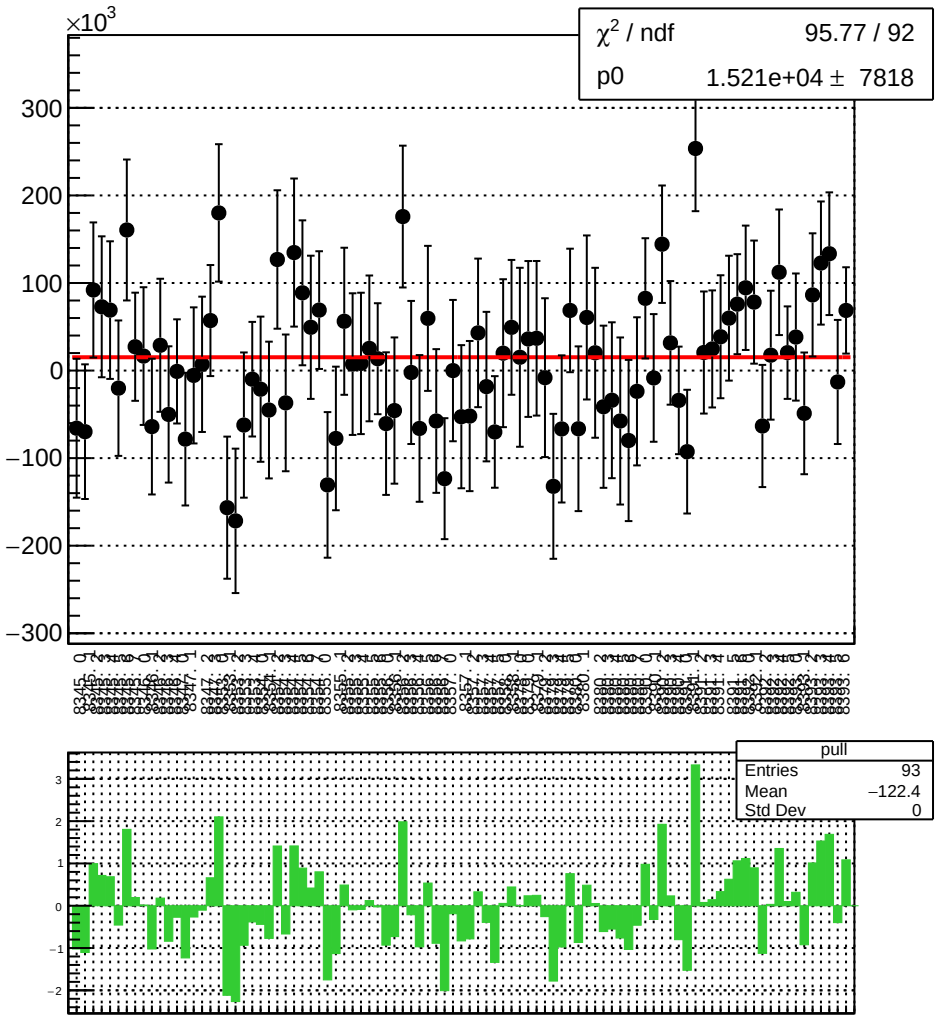

pull1D
Entries 93
Mean −0.0302
Std Dev 1.014
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

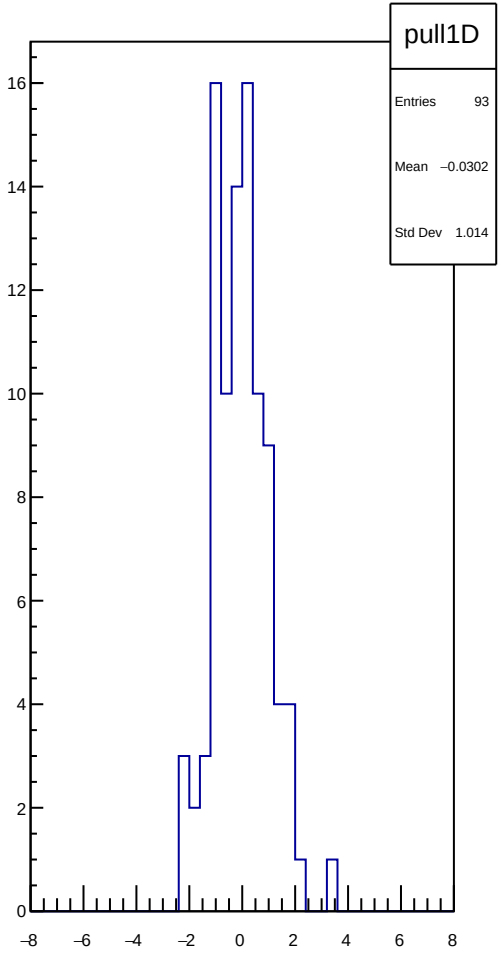

asym_us_avg_atlr_avg_avg_cor_correction_rms vs run
χ² / ndf 1.428e+04 / 92
p0 7426 ± 5.528
9500
9000
8500
8000
7500
7000
6500
6000

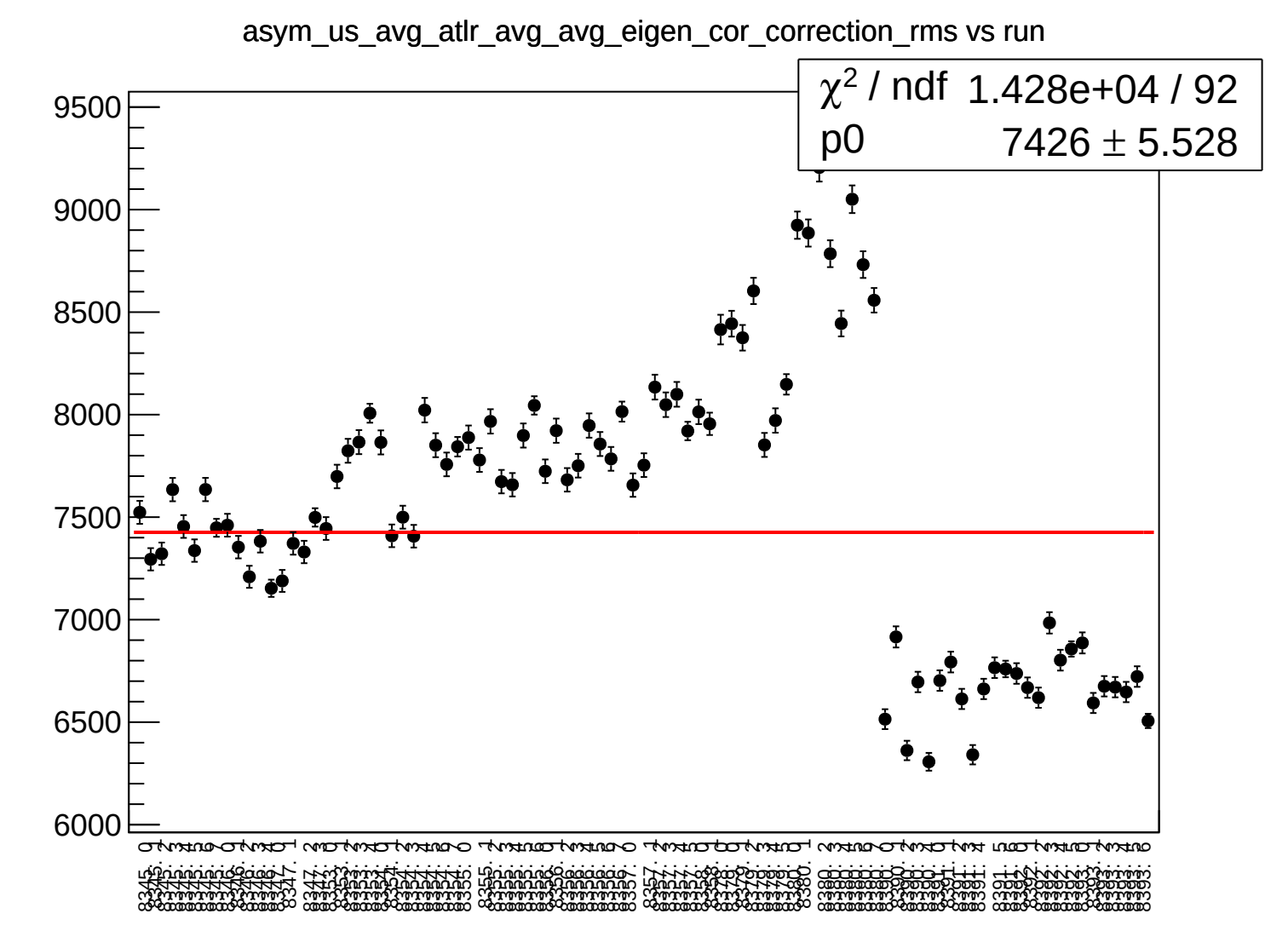

eigen_cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 77.41 / 92
p0 4218 ± 1913
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −48.63
Std Dev 0
2
1
0
−1
−2

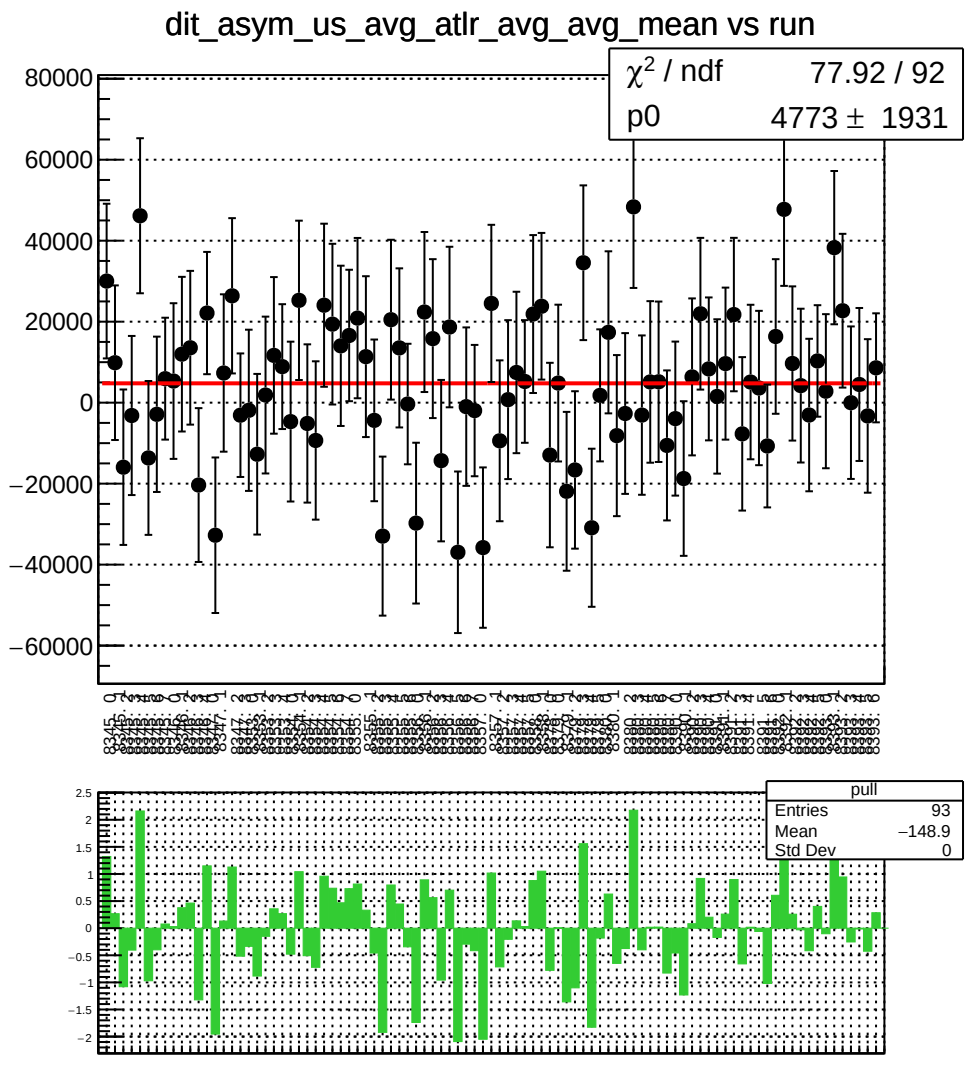

pull1D
Entries 93
Mean −0.006718
Std Dev 0.9123
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

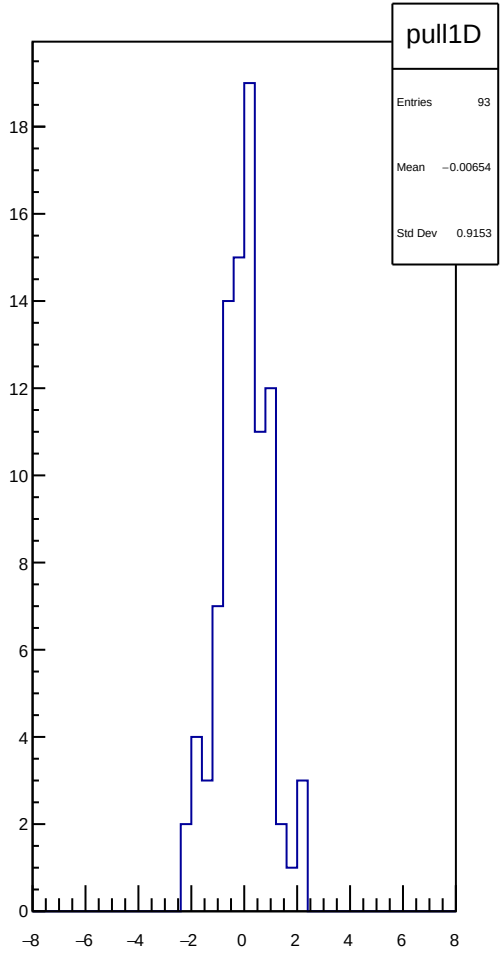

eigen_cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 777.8 / 92
p0 1824 ± 1.353
1920
1900
1880
1860
1840
1820
1800
1780
1760
1740

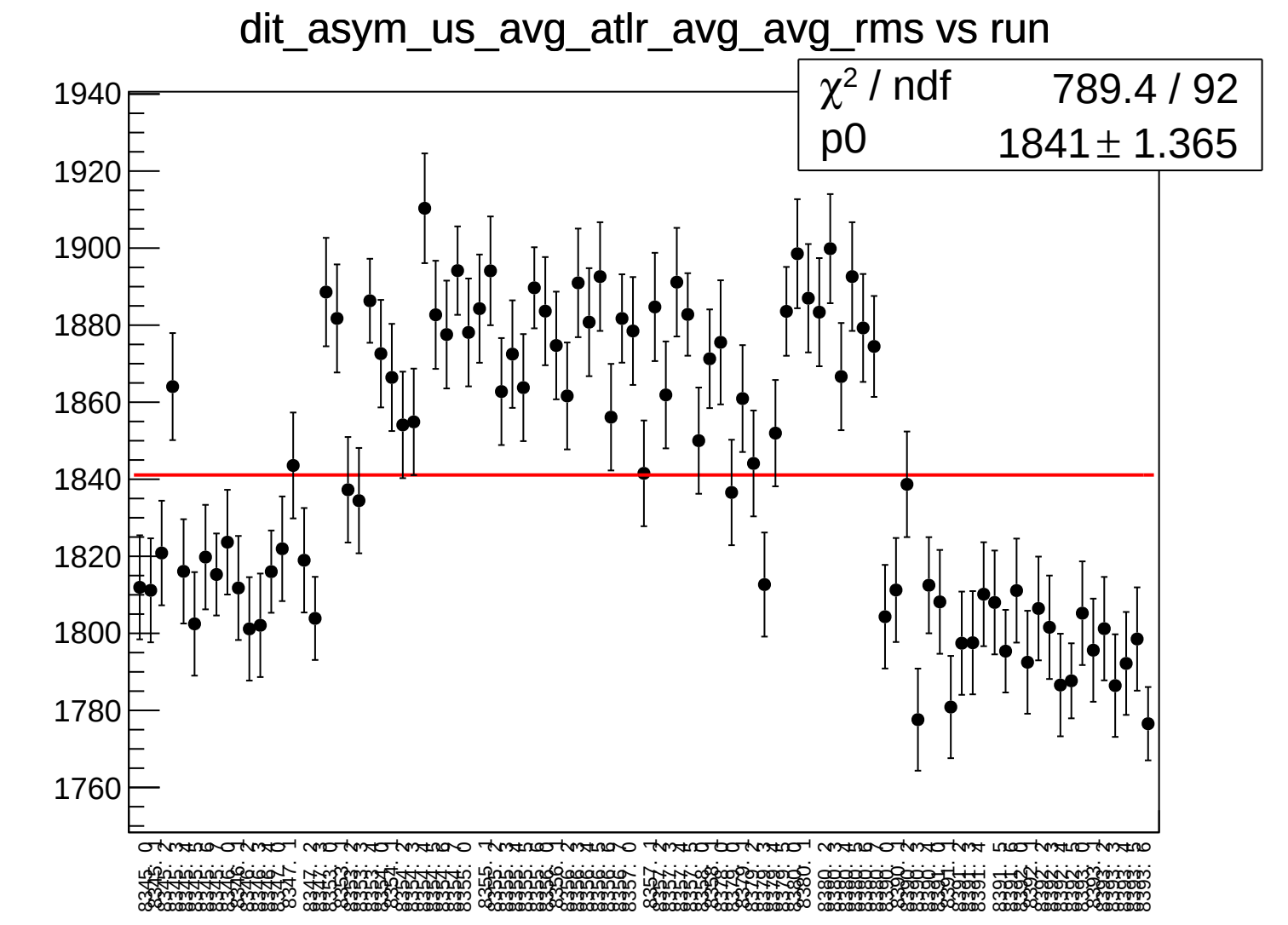

asym_us_avg_atlr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 95.77 / 92
p0 1.521e+04 ± 7818
300
200
100
0
−100
−200
−300
pull
Entries 93
Mean −122.4
Std Dev 0
3
2
1
0
−1
−2

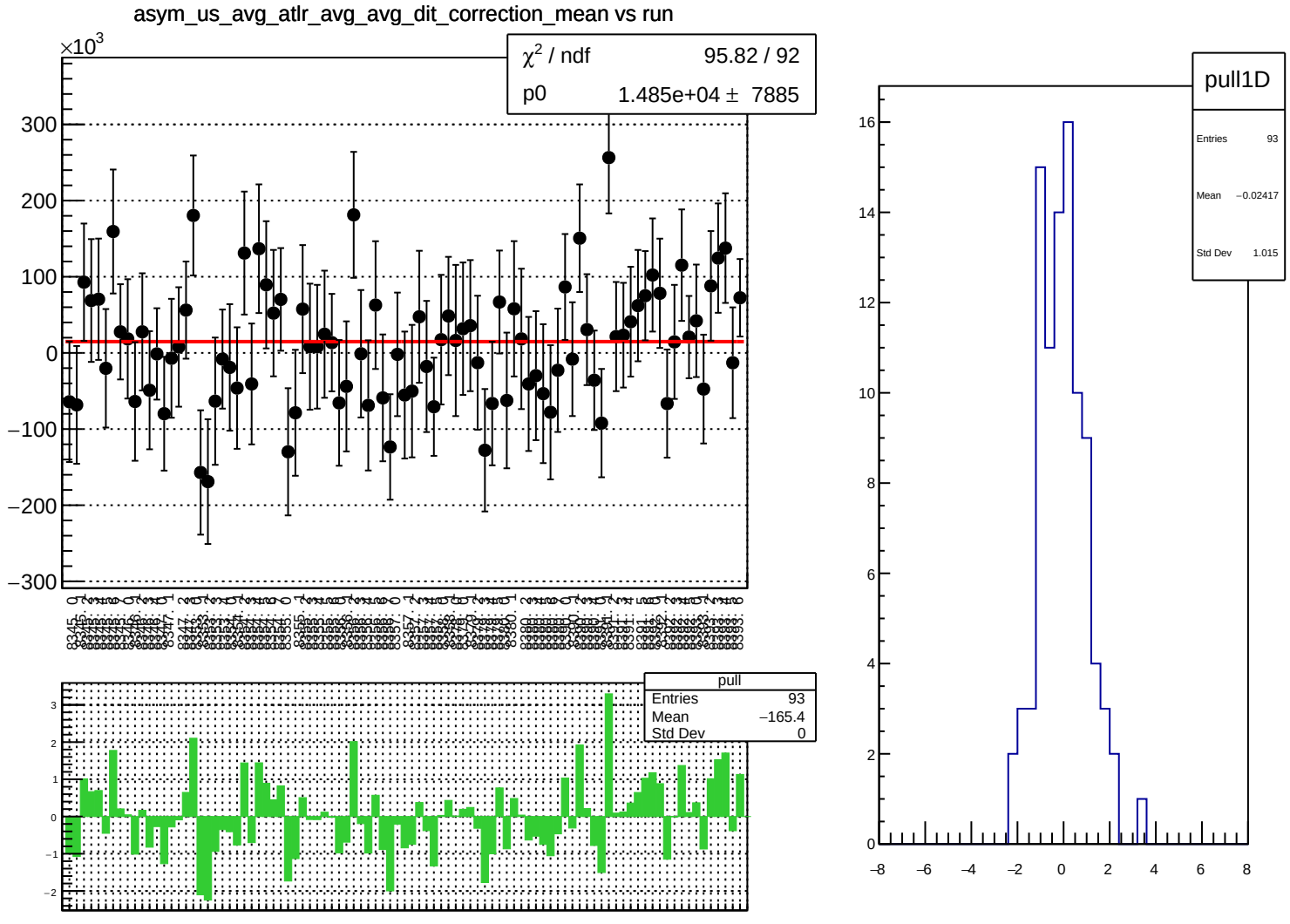

pull1D
Entries 93
Mean −0.0302
Std Dev 1.014
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

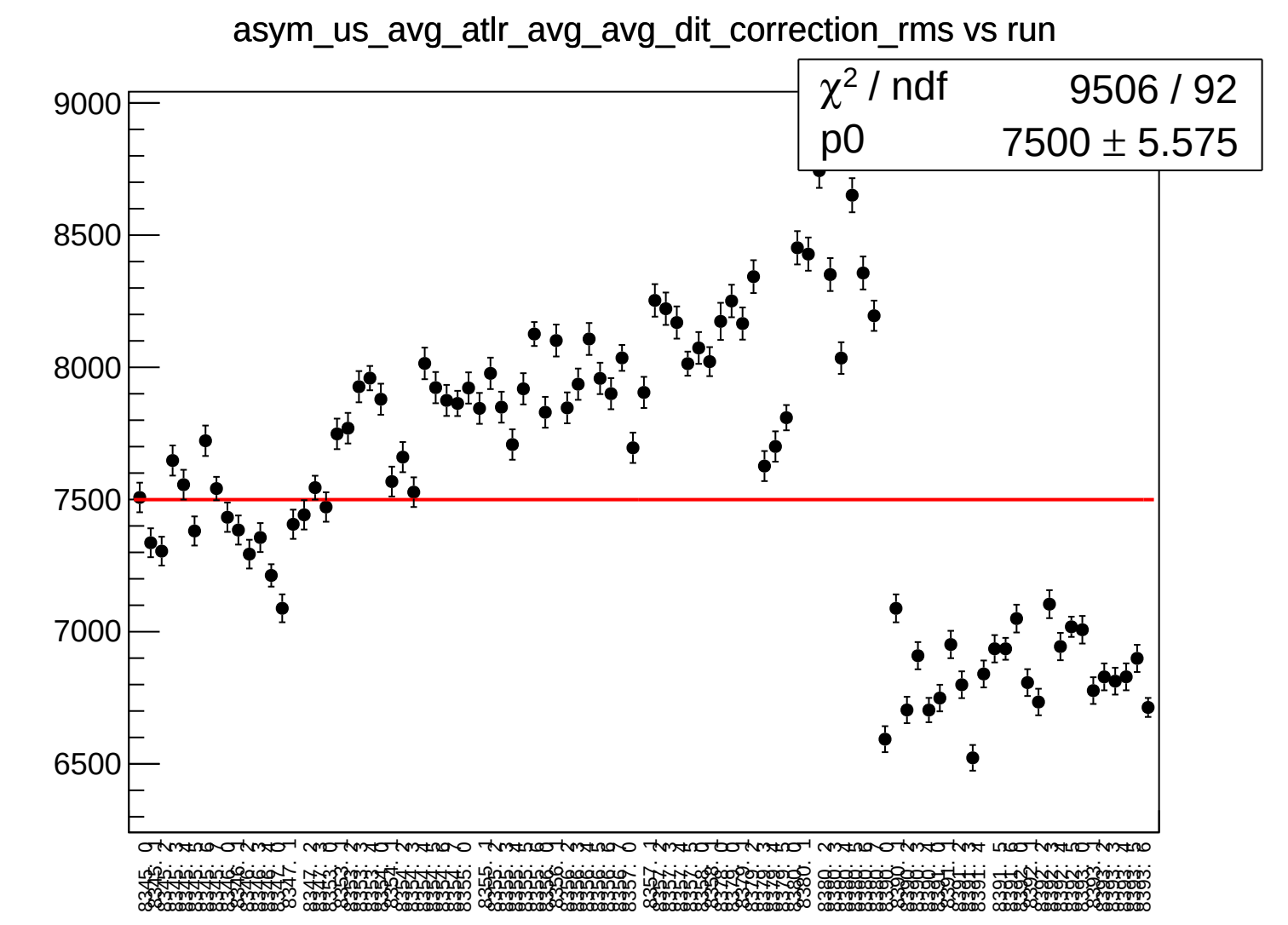

asym_us_avg_atlr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.428e+04 / 92
p0 7426 ± 5.528
9500
9000
8500
8000
7500
7000
6500
6000

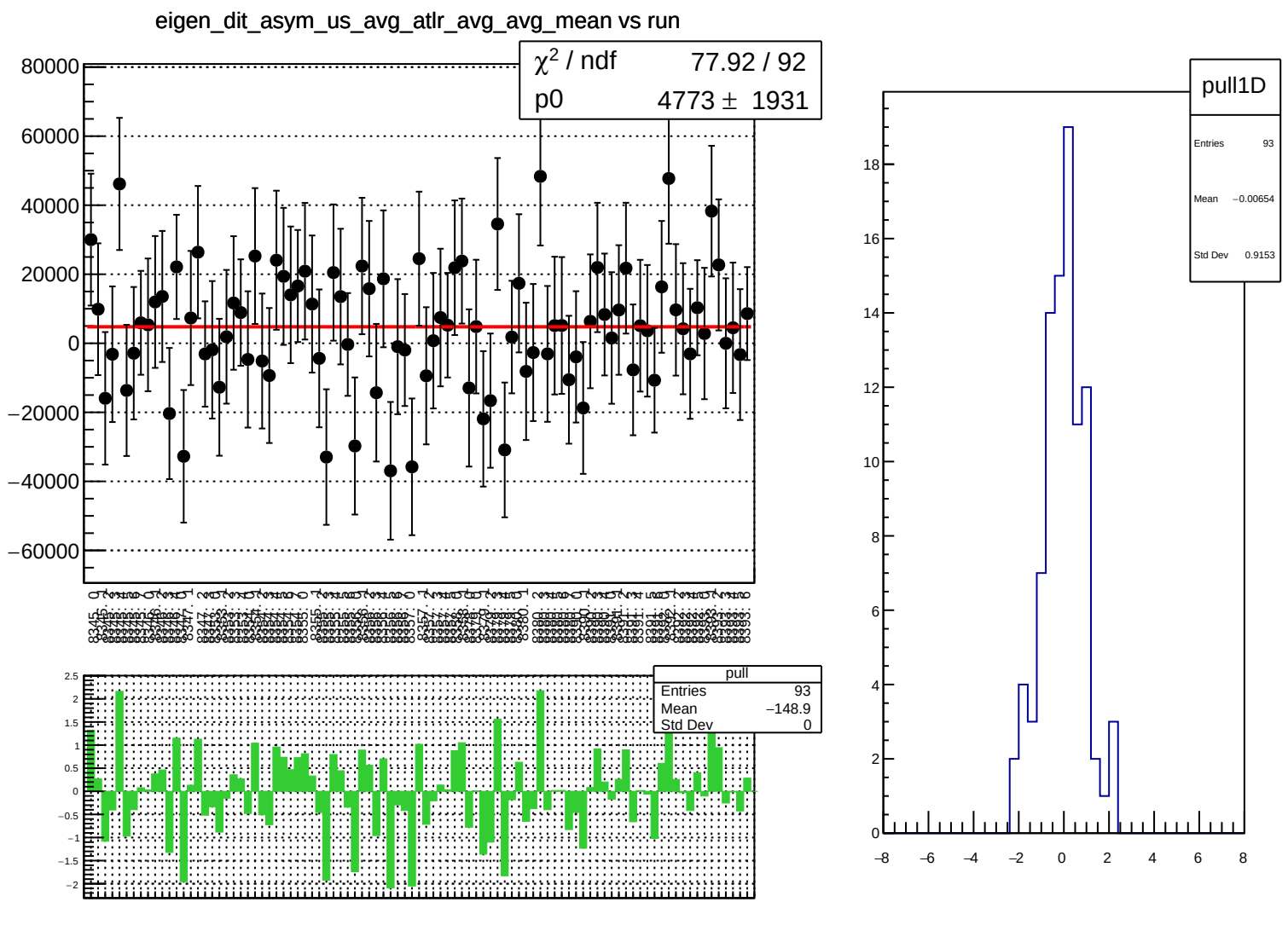

dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 77.92 / 92
p0 4773 ± 1931
pull
Entries 93
Mean −148.9
Std Dev 0

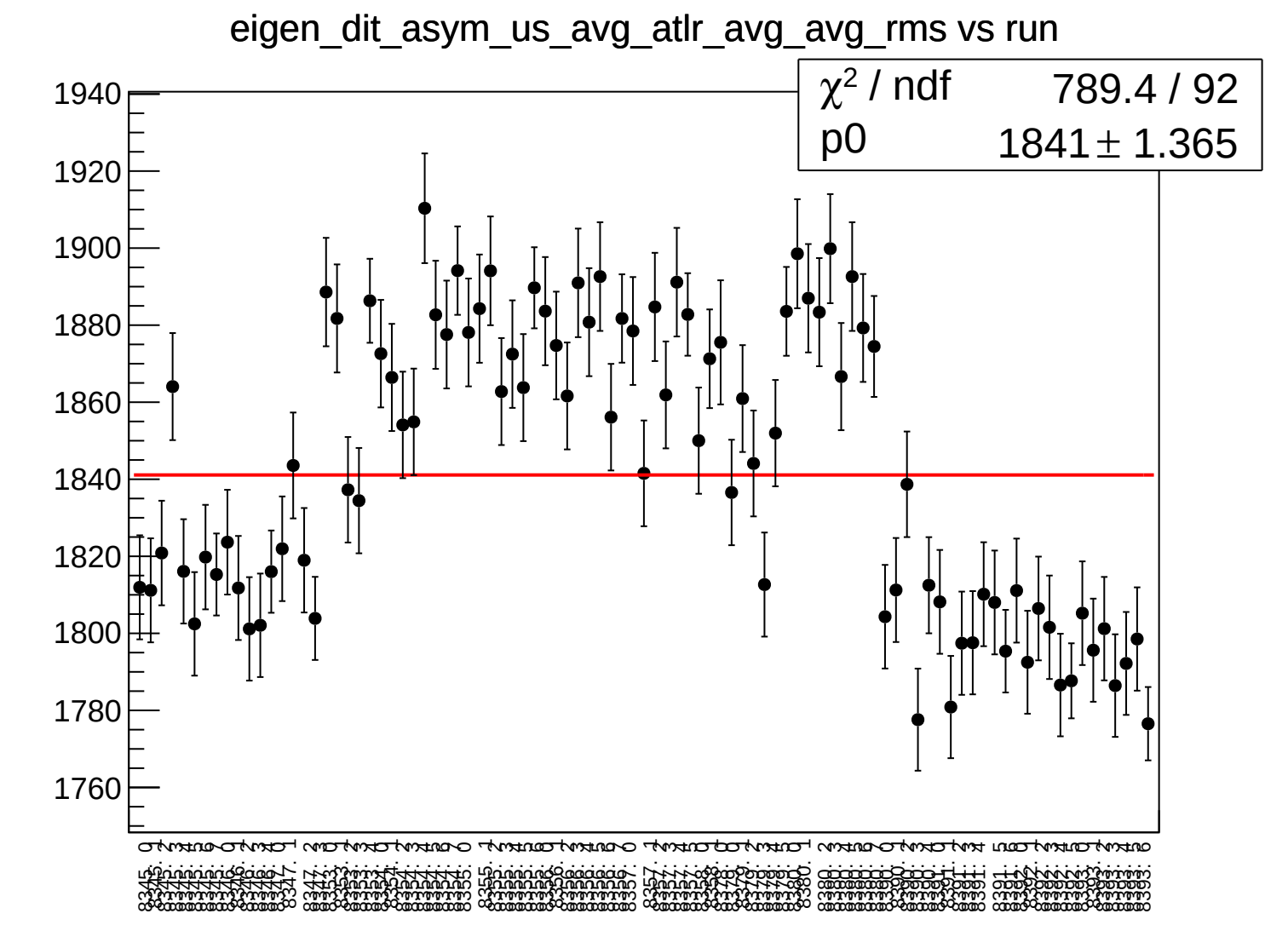

pull1D
Entries 93
Mean −0.00654
Std Dev 0.9153

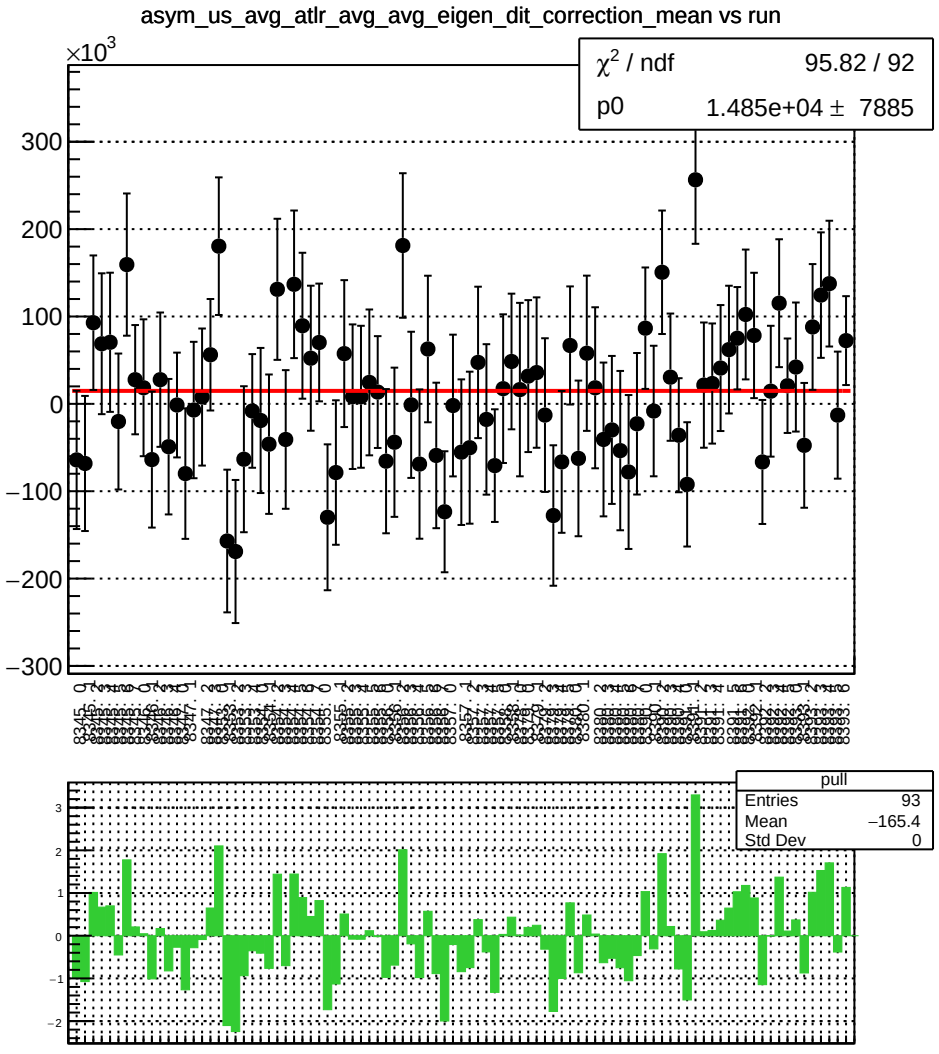

dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 789.4 / 92
p0 1841 ± 1.365
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760

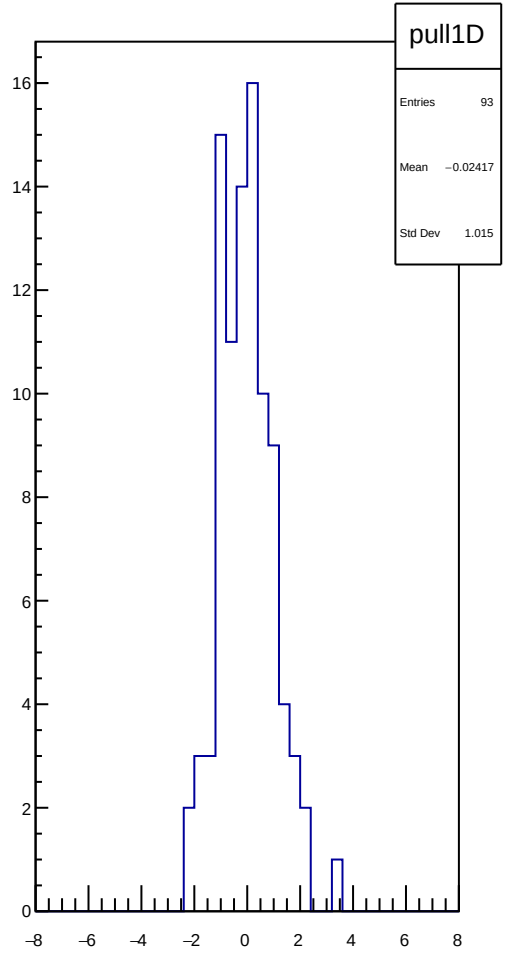

asym_us_avg_atlr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 95.82 / 92
p0 1.485e+04 ± 7885
300
200
100
0
−100
−200
−300
pull
Entries 93
Mean −165.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.02417
Std Dev 1.015
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

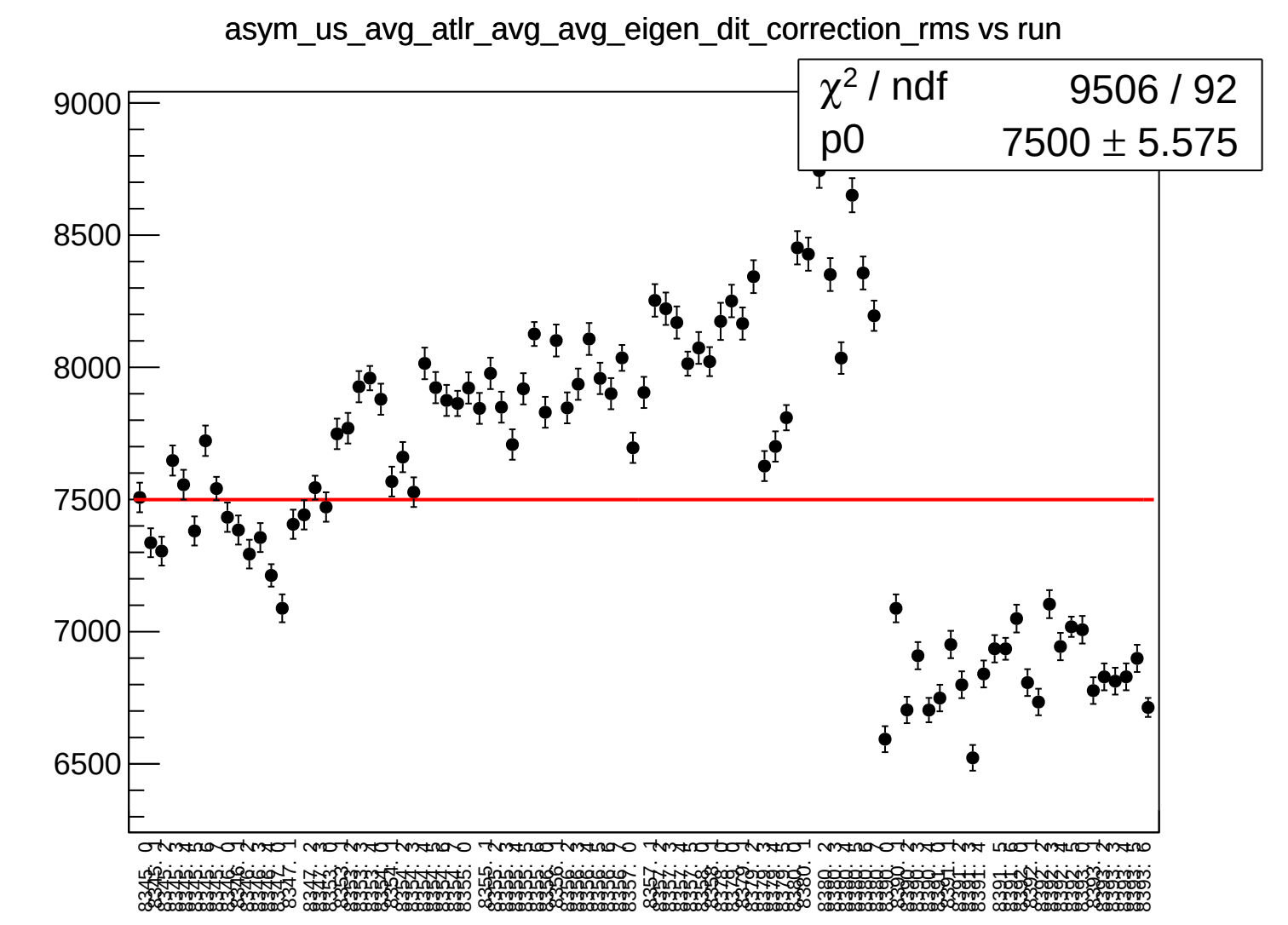

asym_us_avg_atlr_avg_avg_dit_correction_rms vs run
χ² / ndf 9506 / 92
p0 7500 ± 5.575
9000
8500
8000
7500
7000
6500

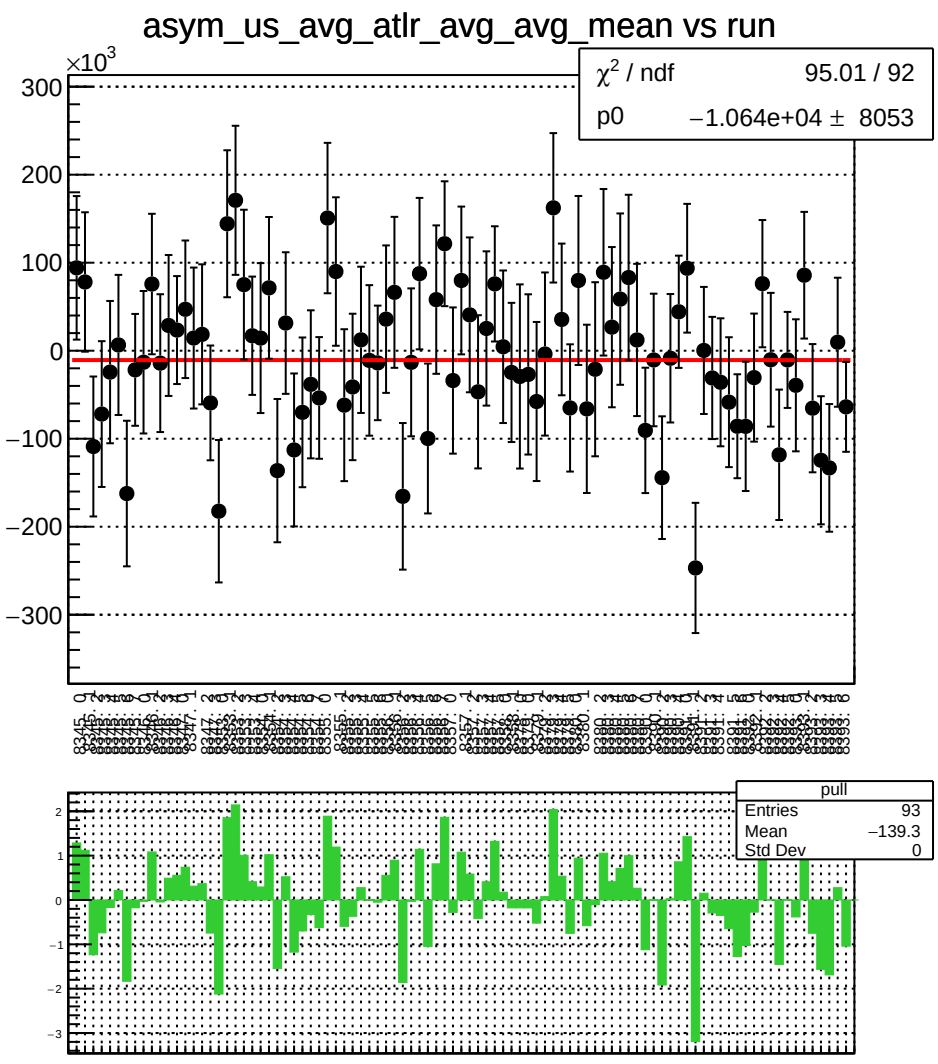

eigen_dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 77.92 / 92
p0 4773 ± 1931
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −148.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean −0.00654
Std Dev 0.9153
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

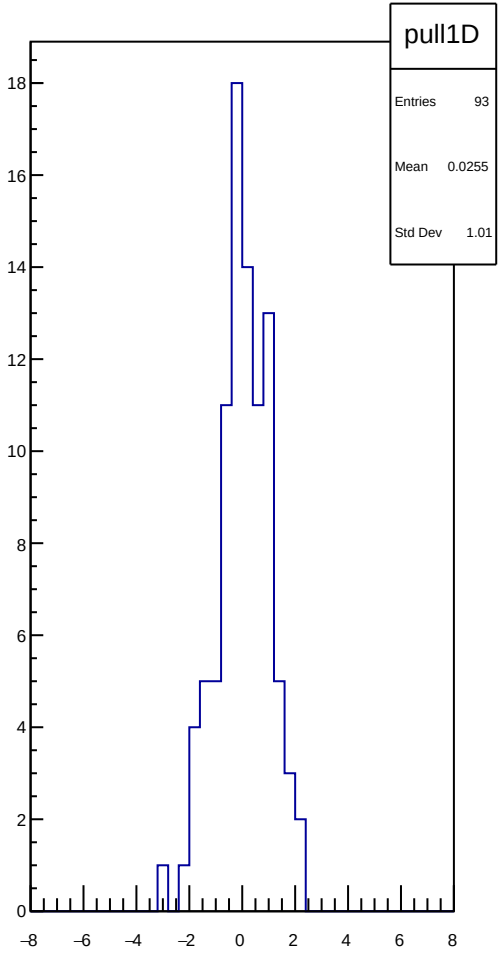

eigen_dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 789.4 / 92
p0 1841 ± 1.365
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760

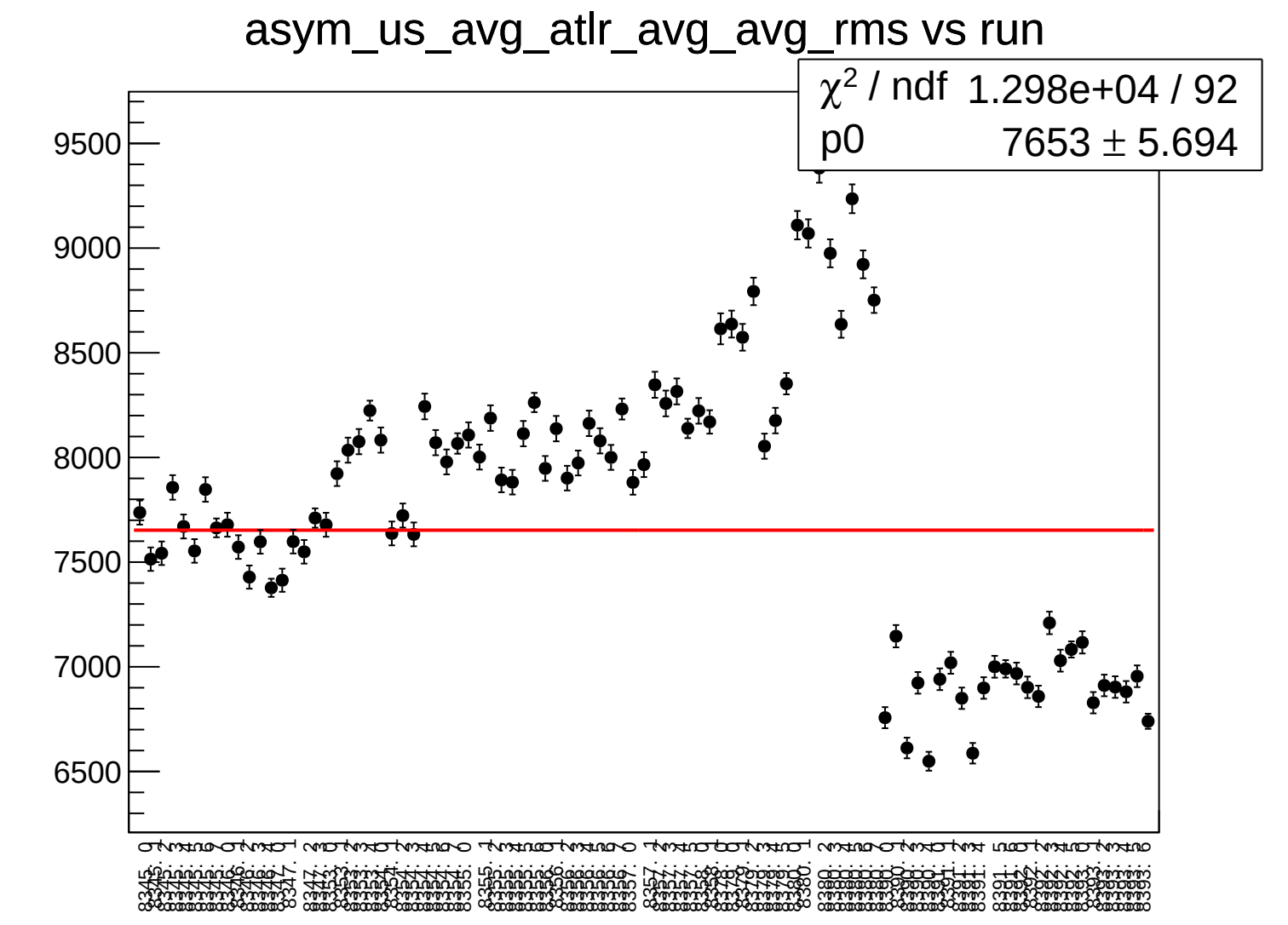

asym_us_avg_atlr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 95.82 / 92
p0 1.485e+04 ± 7885
300
200
100
0
−100
−200
−300
pull
Entries 93
Mean −165.4
Std Dev 0
3
2
1
0
−1
−2

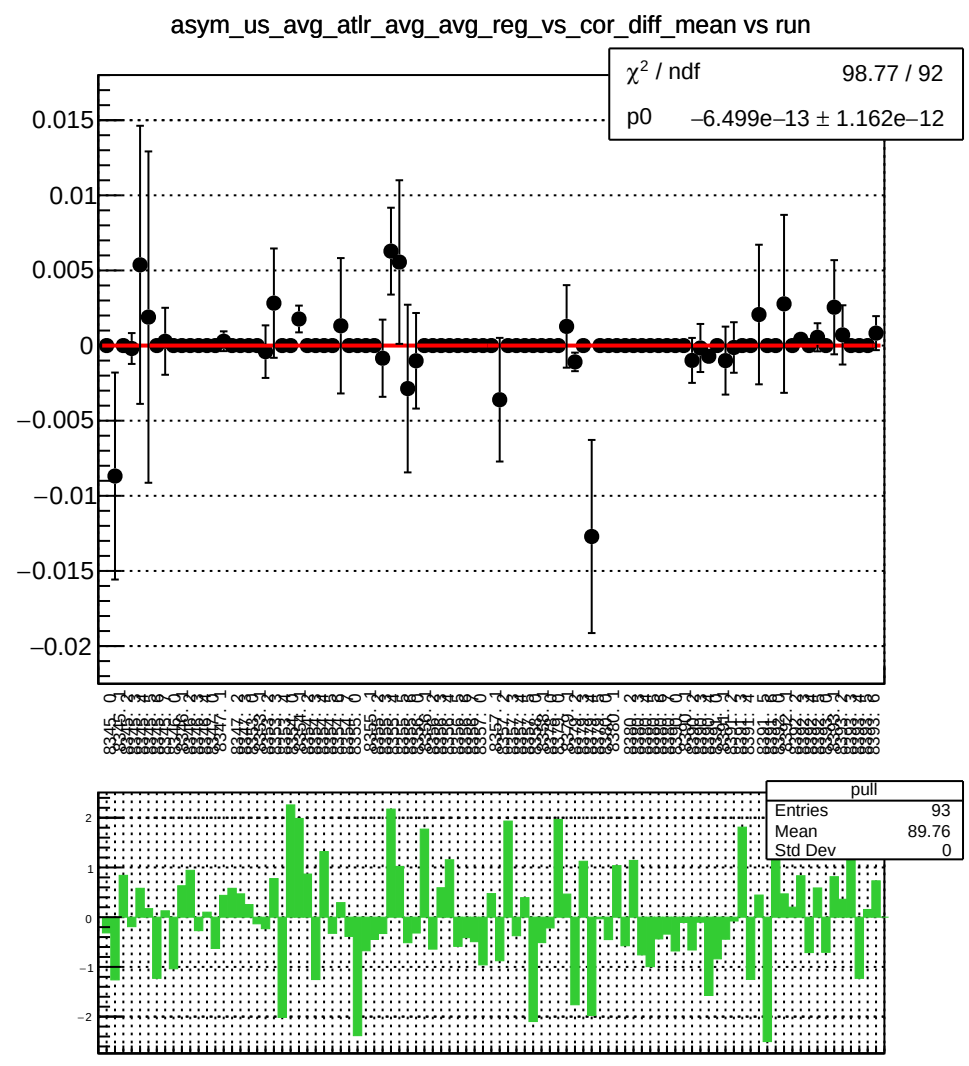

pull1D
Entries 93
Mean −0.02417
Std Dev 1.015
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

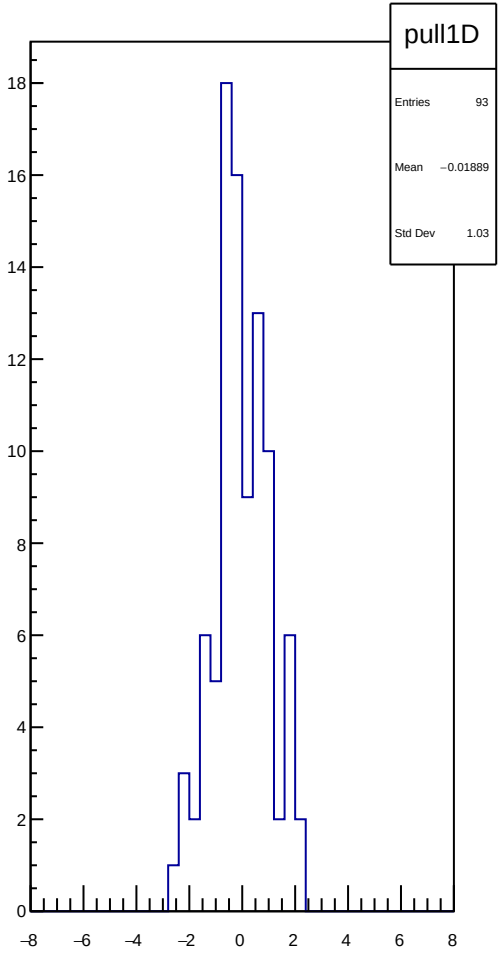

asym_us_avg_atlr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 9506 / 92
p0 7500 ± 5.575
9000
8500
8000
7500
7000
6500

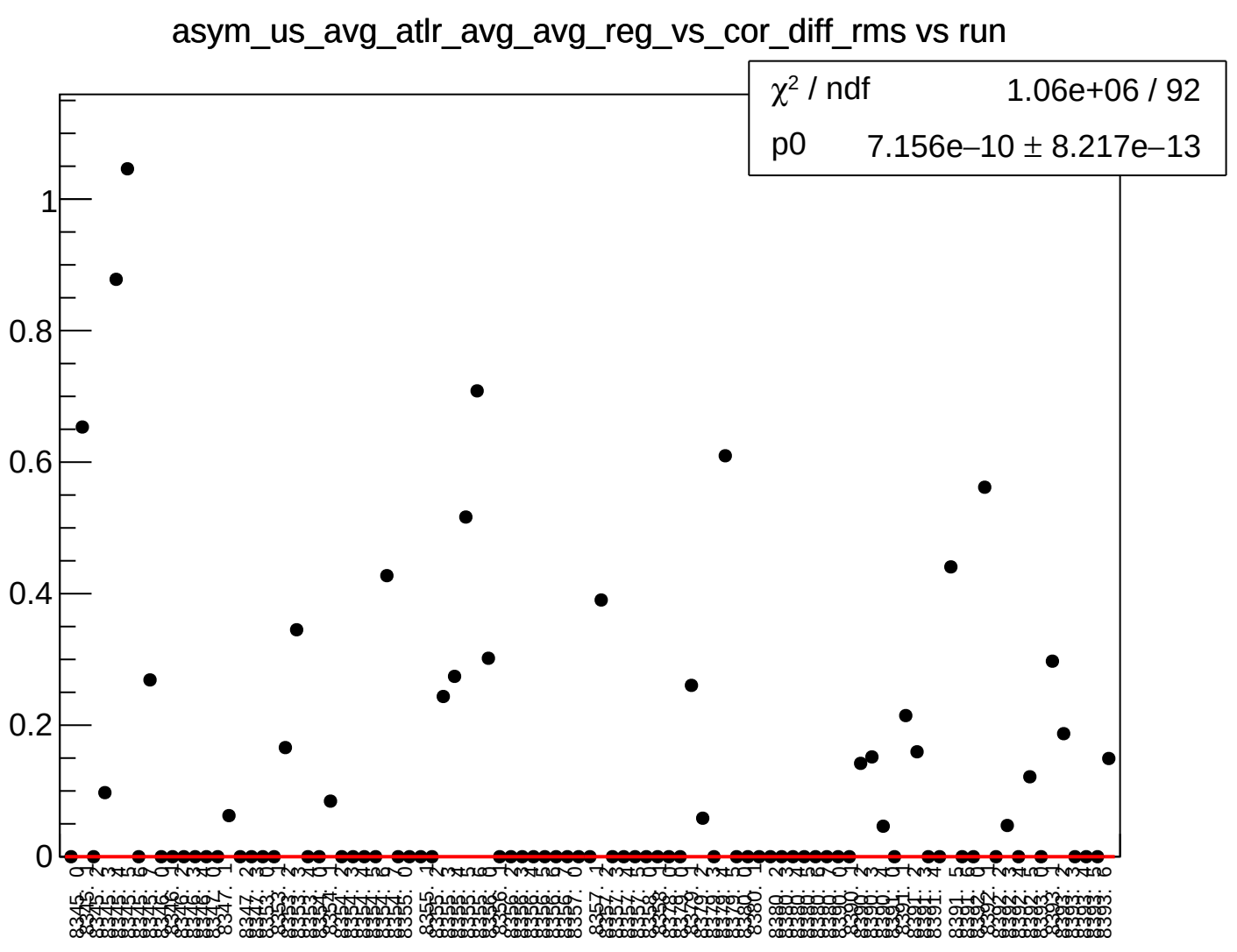

asym_us_avg_atlr_avg_avg_mean vs run
×10^3
χ² / ndf 95.01 / 92
p0 −1.064e+04 ± 8053
pull
Entries 93
Mean −139.3
Std Dev 0

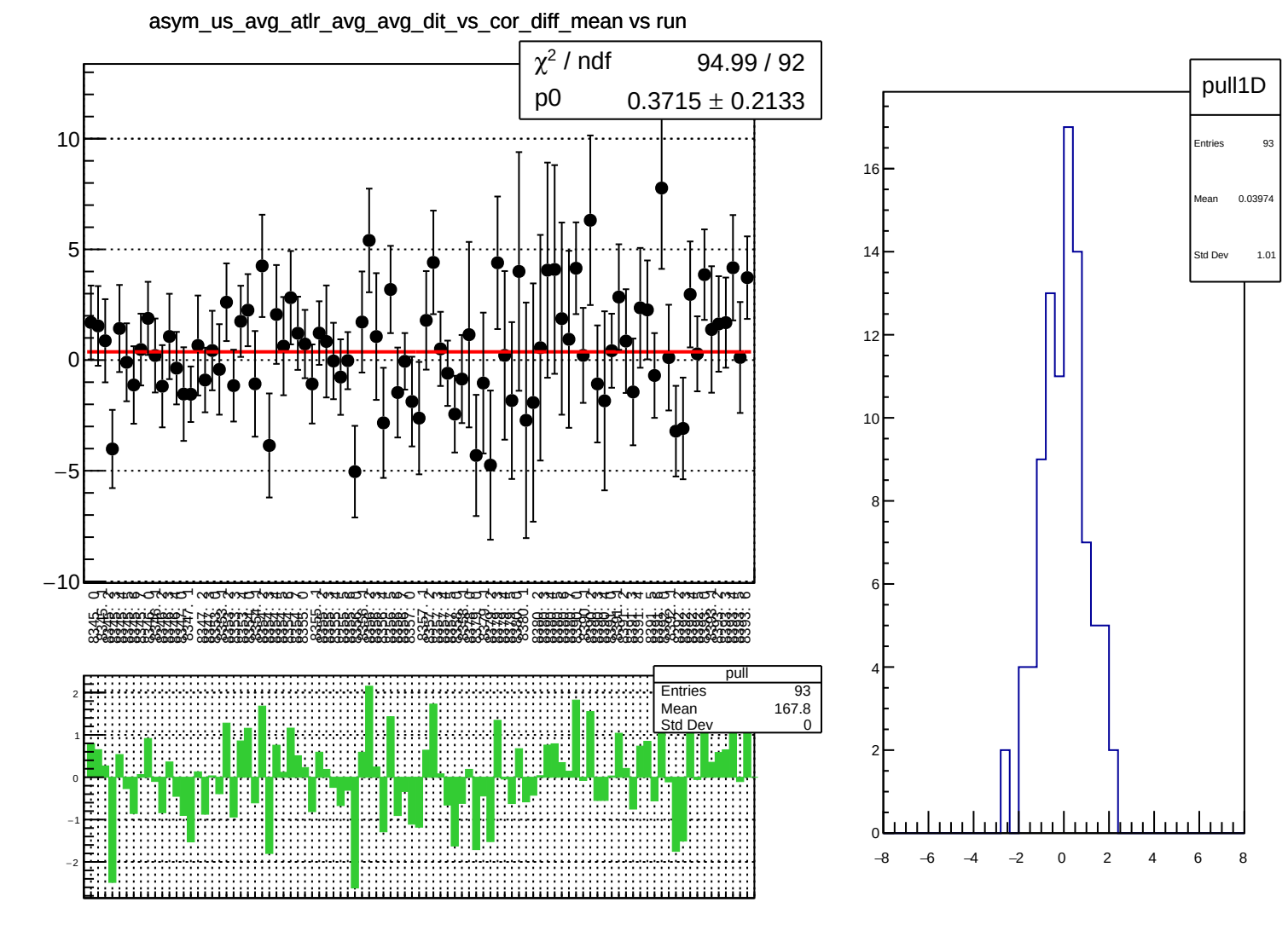

pull1D
Entries 93
Mean 0.0255
Std Dev 1.01

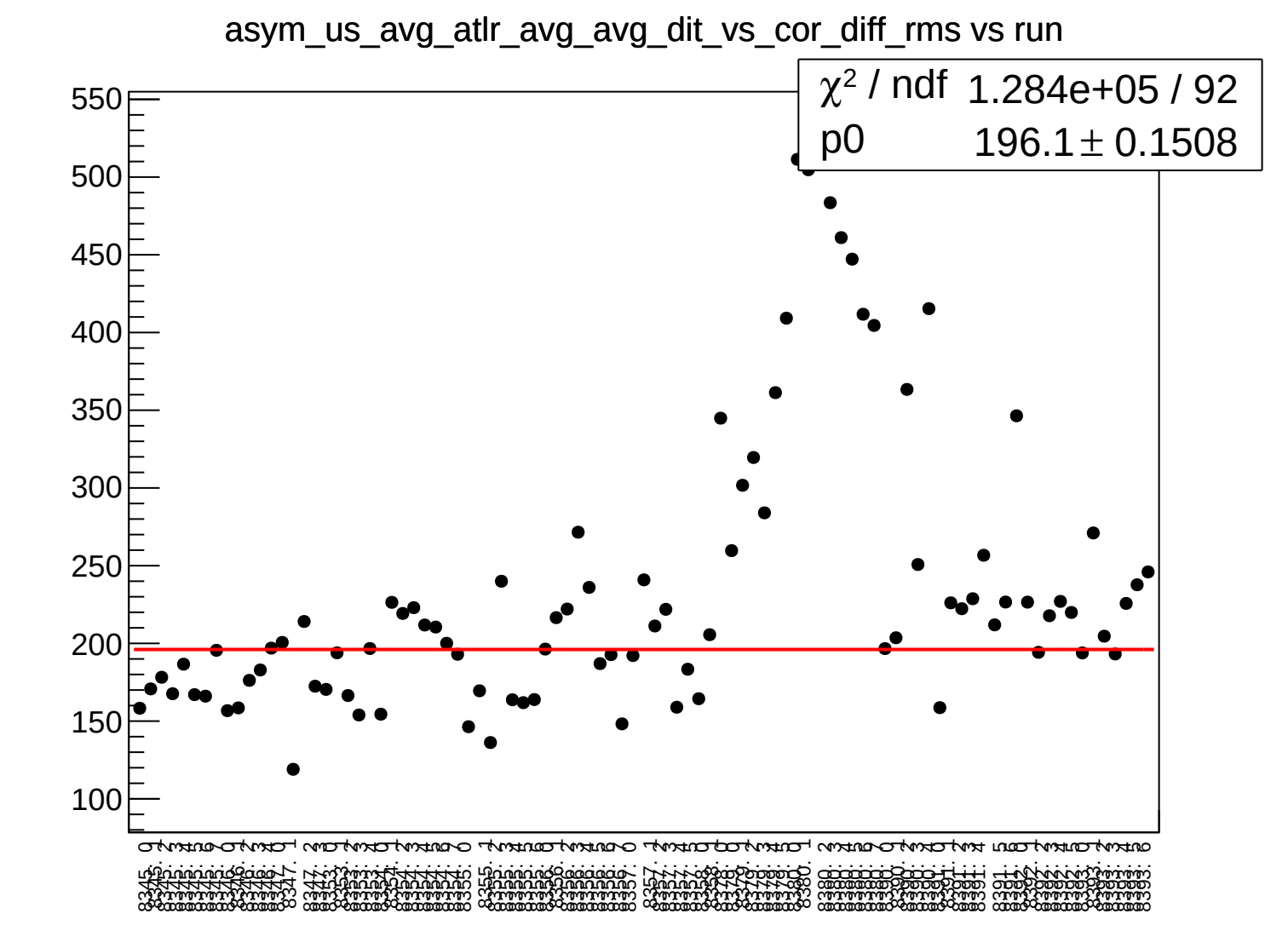

asym_us_avg_atlr_avg_avg_rms vs run
χ^2 / ndf 1.298e+04 / 92
p0 7653 ± 5.694
9500
9000
8500
8000
7500
7000
6500

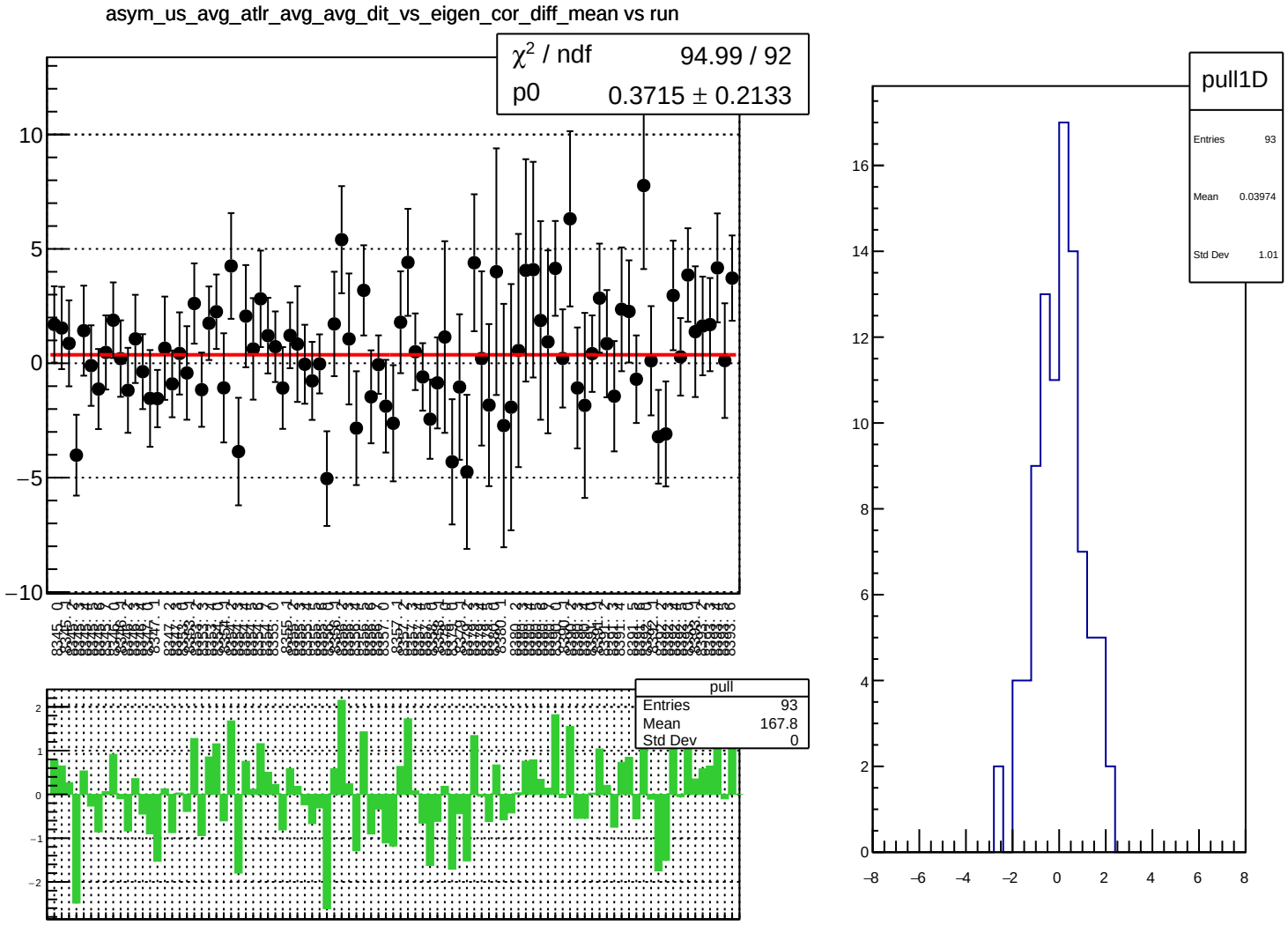

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 98.77 / 92
p0 −6.499e−13 ± 1.162e−12
pull
Entries 93
Mean 89.76
Std Dev 0

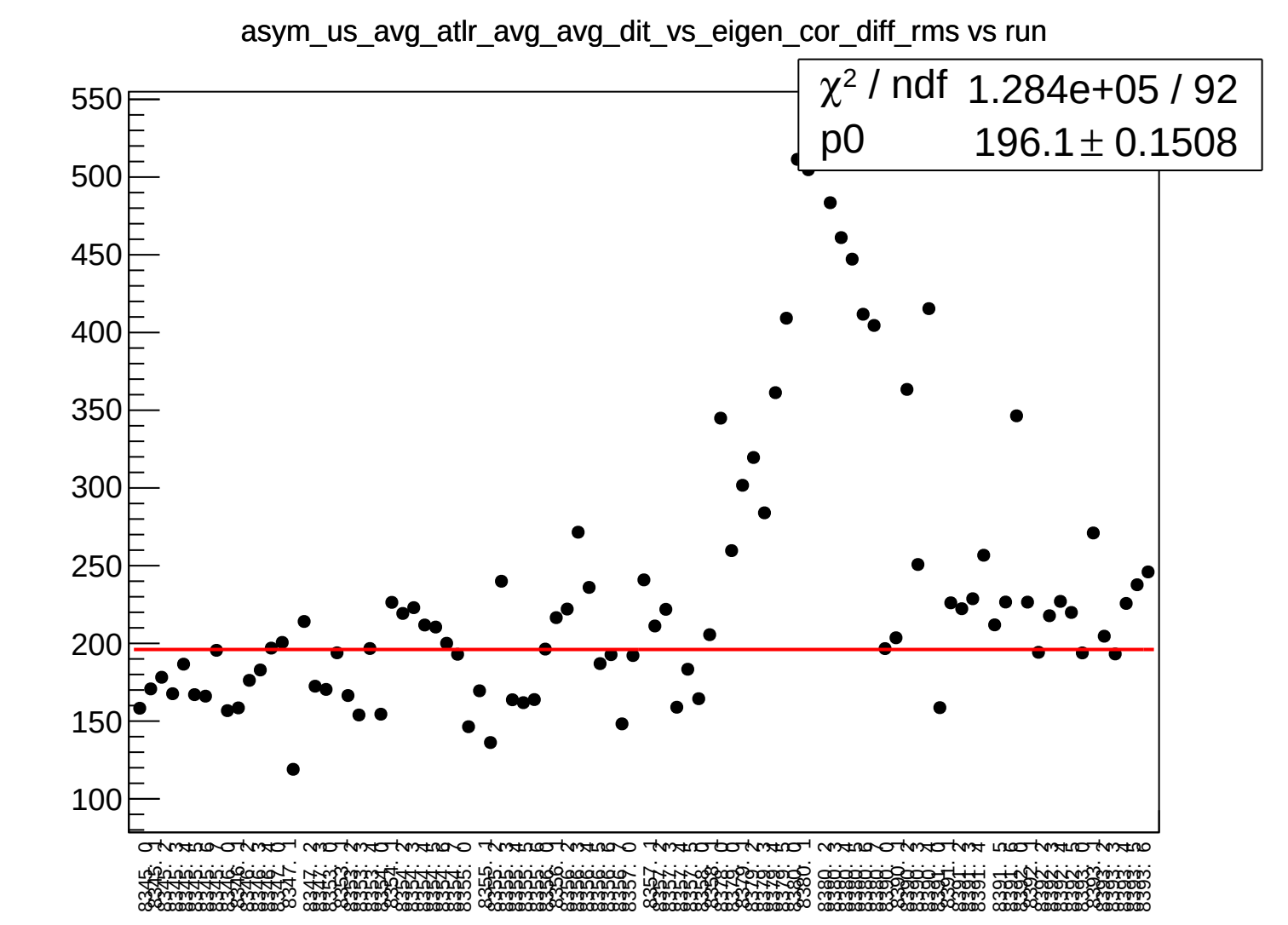

pull1D
Entries 93
Mean −0.01889
Std Dev 1.03

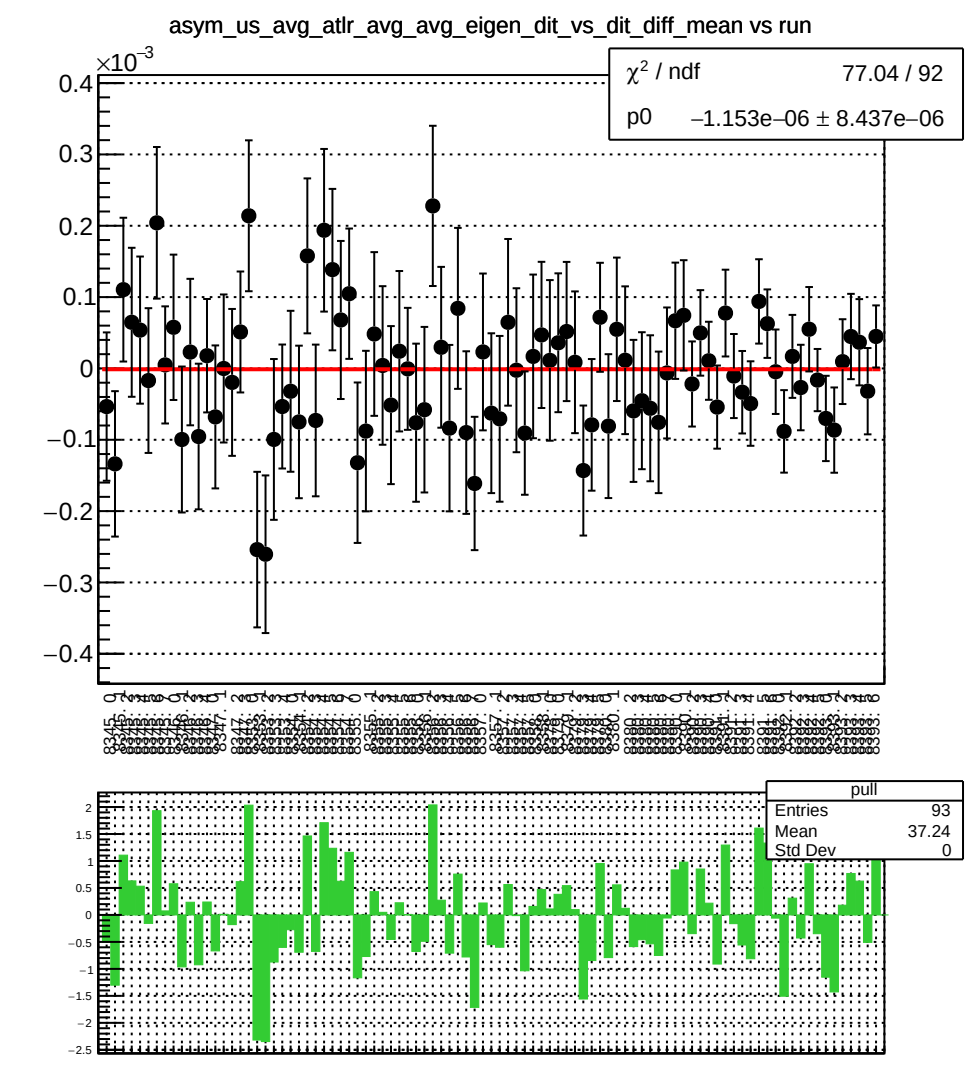

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.06e+06 / 92
p0 7.156e−10 ± 8.217e−13
1
0.8
0.6
0.4
0.2
0

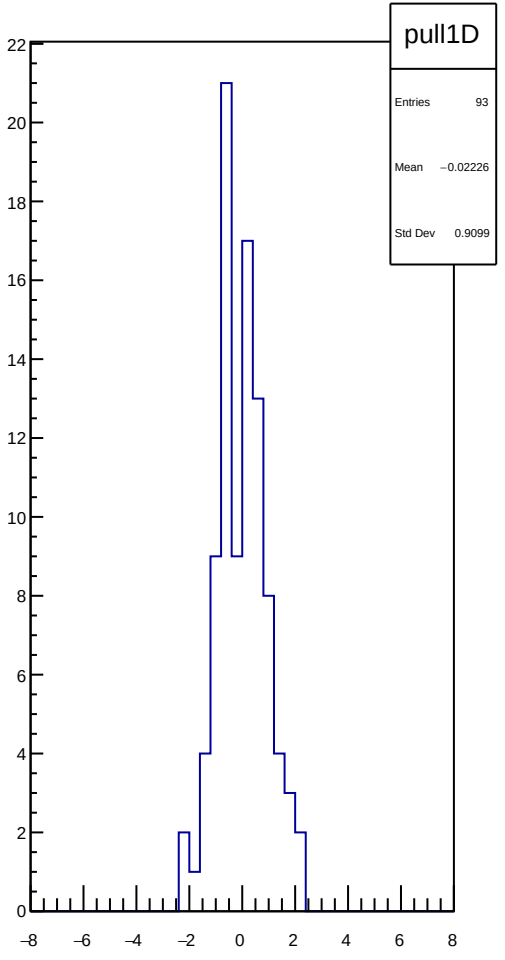

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 94.99 / 92
p0 0.3715 ± 0.2133
pull
Entries 93
Mean 167.8
Std Dev 0
pull1D
Entries 93
Mean 0.03974
Std Dev 1.01

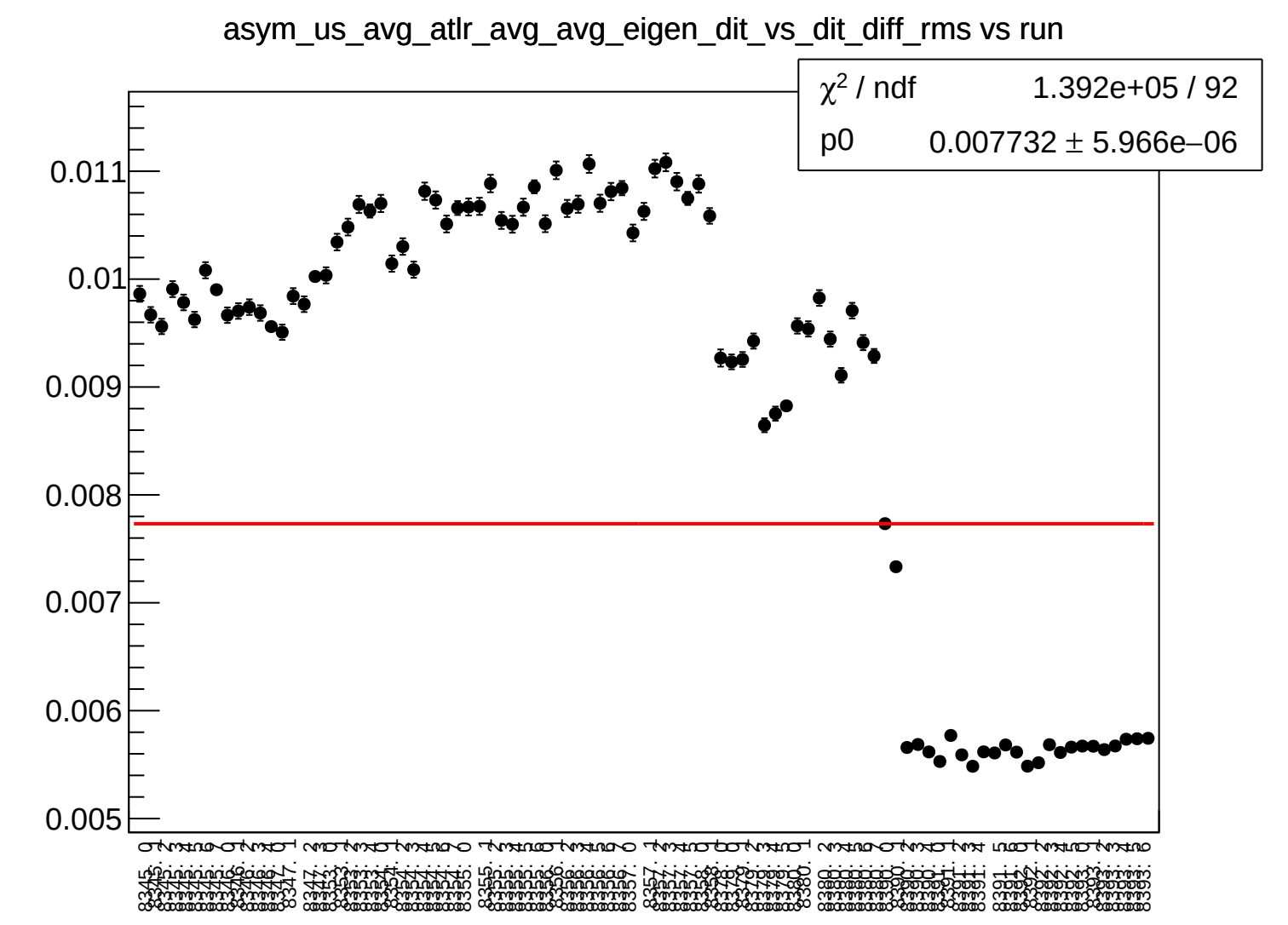

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.284e+05 / 92
p0 196.1 ± 0.1508
550
500
450
400
350
300
250
200
150
100

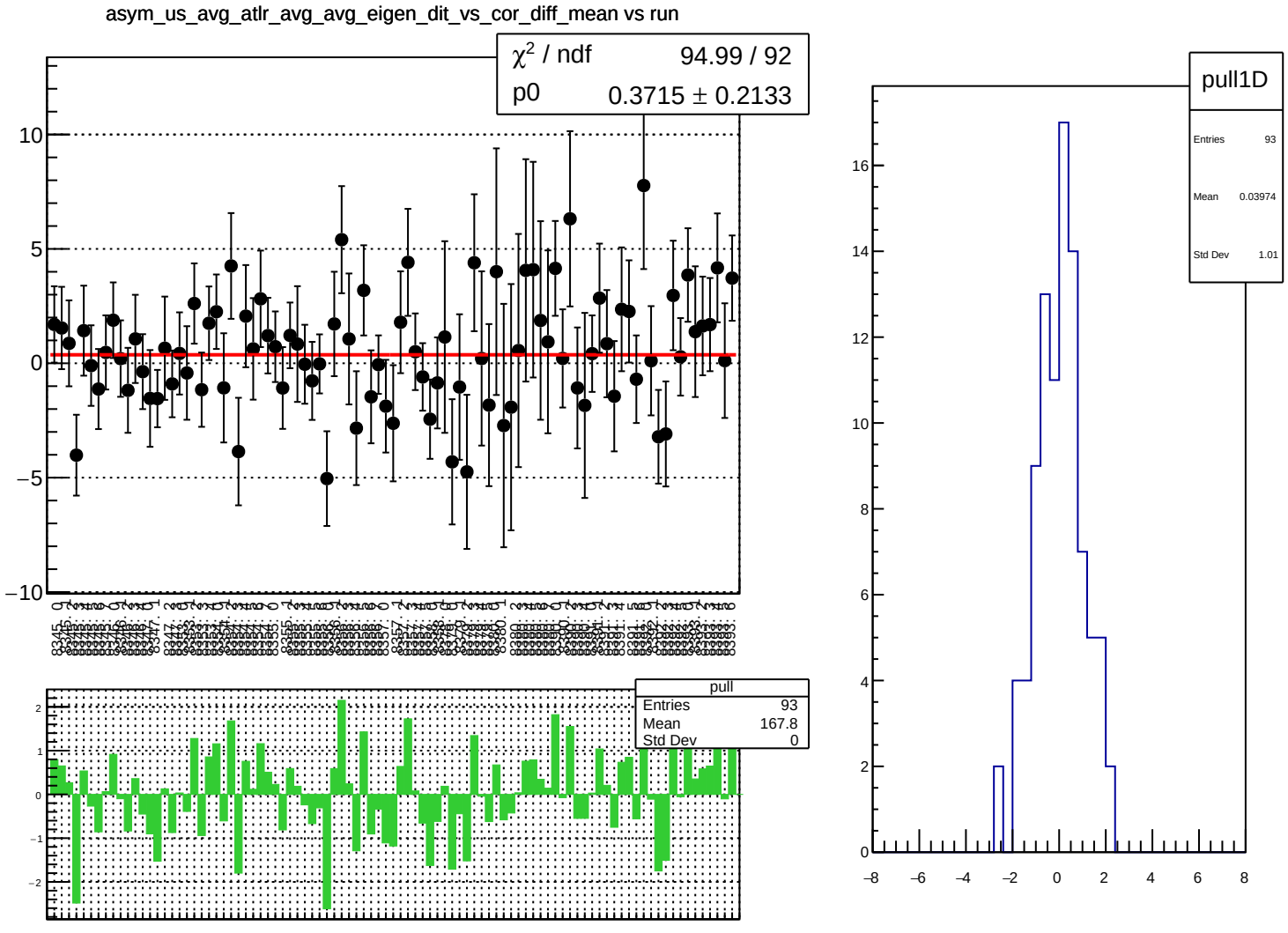

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.99 / 92
p0 0.3715 ± 0.2133
pull
Entries 93
Mean 167.8
Std Dev 0
pull1D
Entries 93
Mean 0.03974
Std Dev 1.01

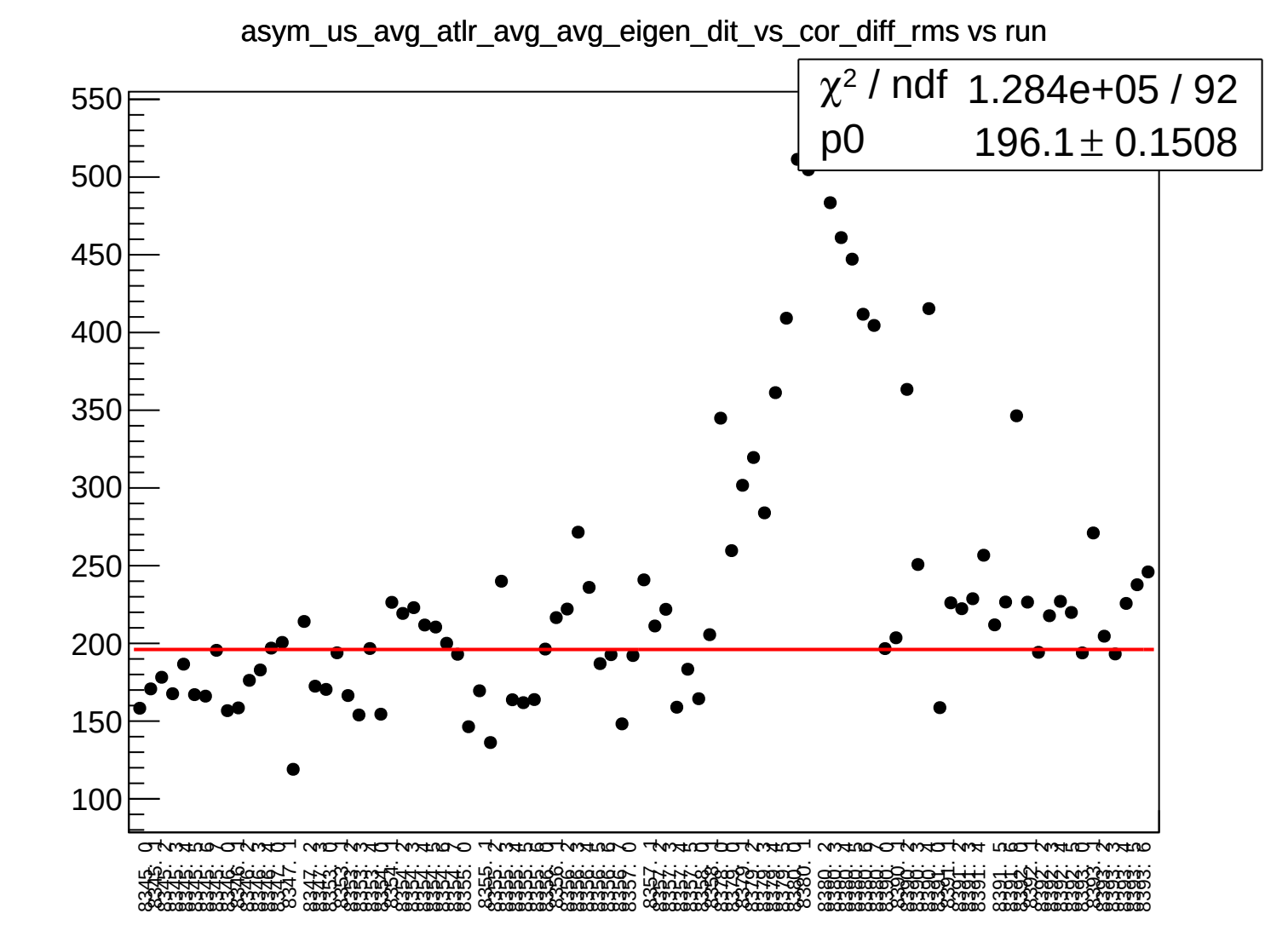

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.284e+05 / 92
p0 196.1 ± 0.1508
550
500
450
400
350
300
250
200
150
100

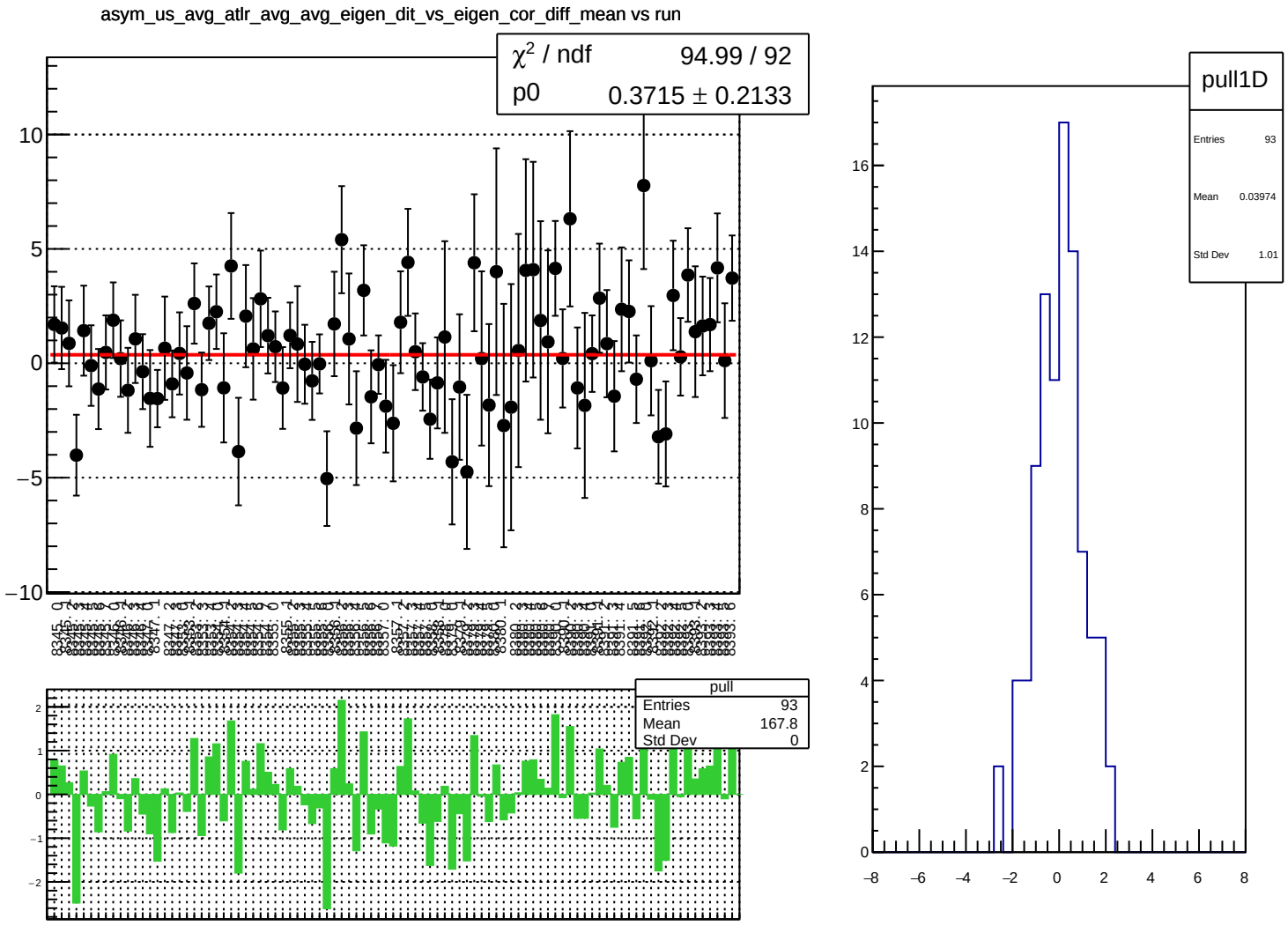

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 77.04 / 92
p0 −1.153e−06 ± 8.437e−06
pull
Entries 93
Mean 37.24
Std Dev 0

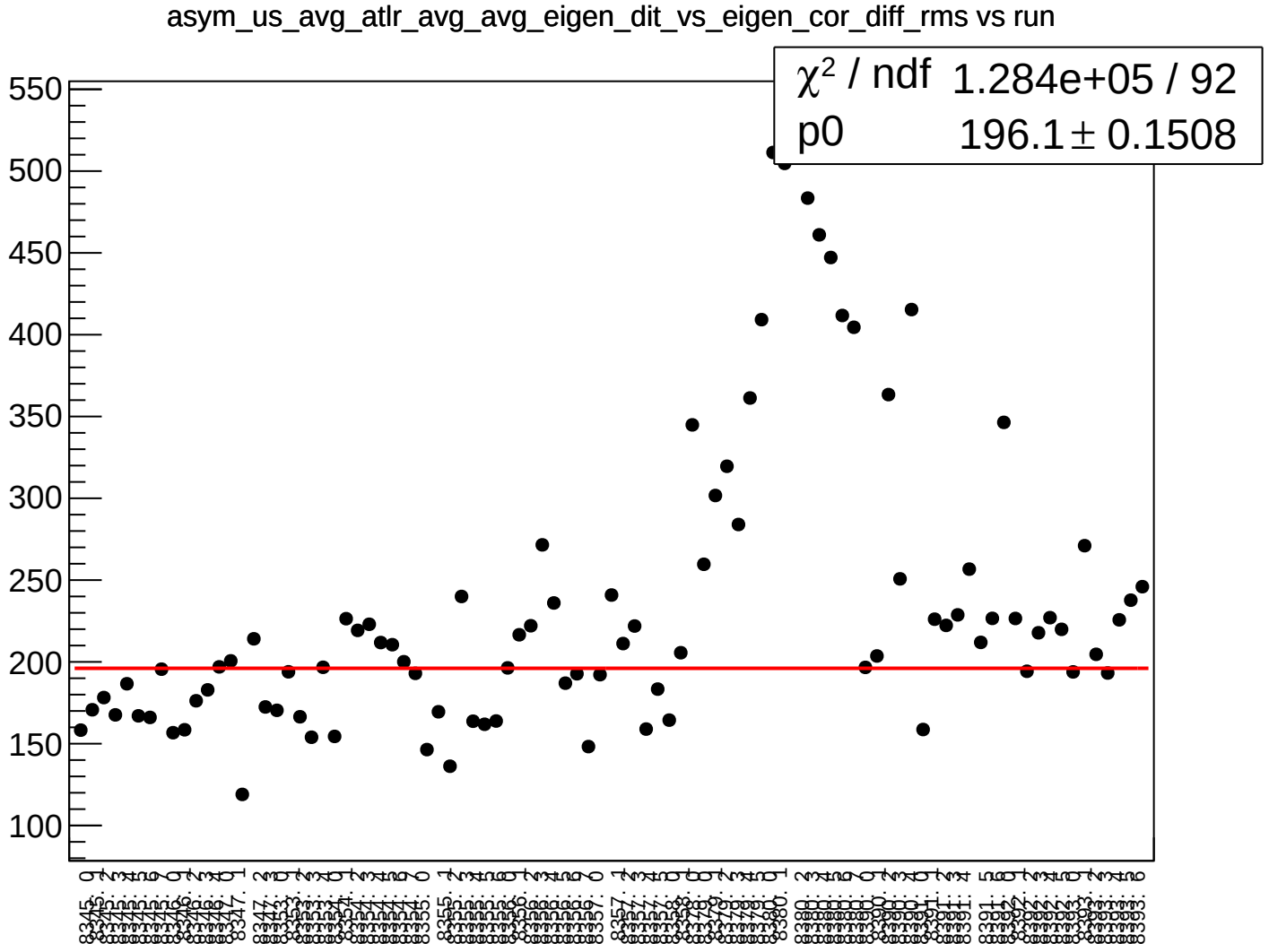

pull1D
Entries 93
Mean −0.02226
Std Dev 0.9099

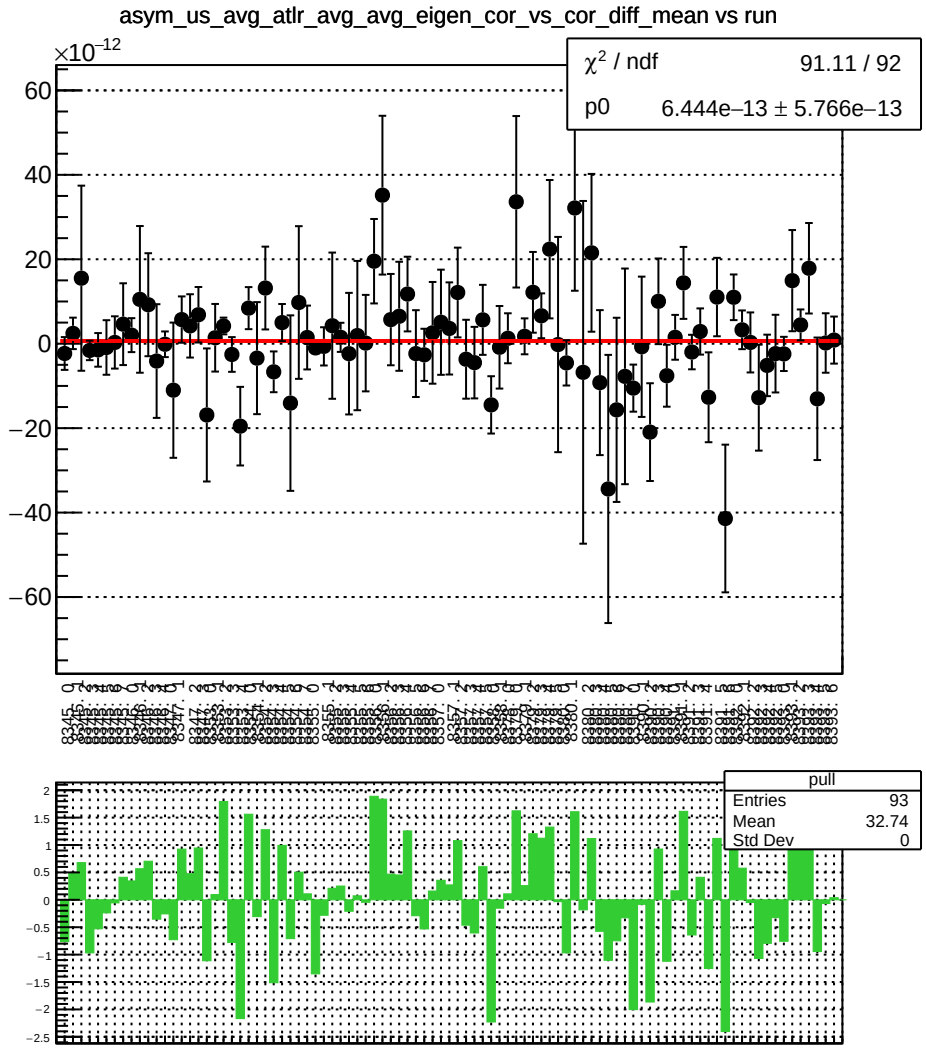

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.392e+05 / 92
p0 0.007732 ± 5.966e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005

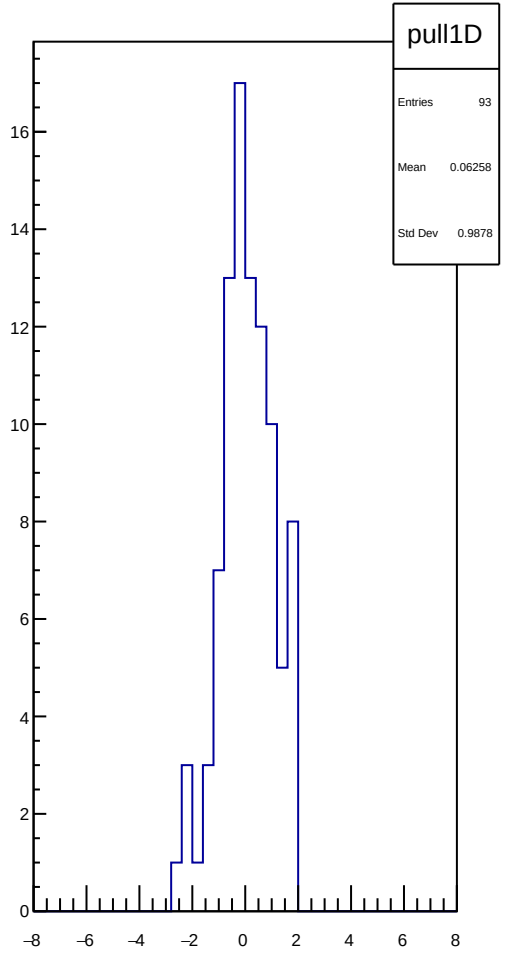

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.99 / 92
p0 0.3715 ± 0.2133
pull
Entries 93
Mean 167.8
Std Dev 0
pull1D
Entries 93
Mean 0.03974
Std Dev 1.01

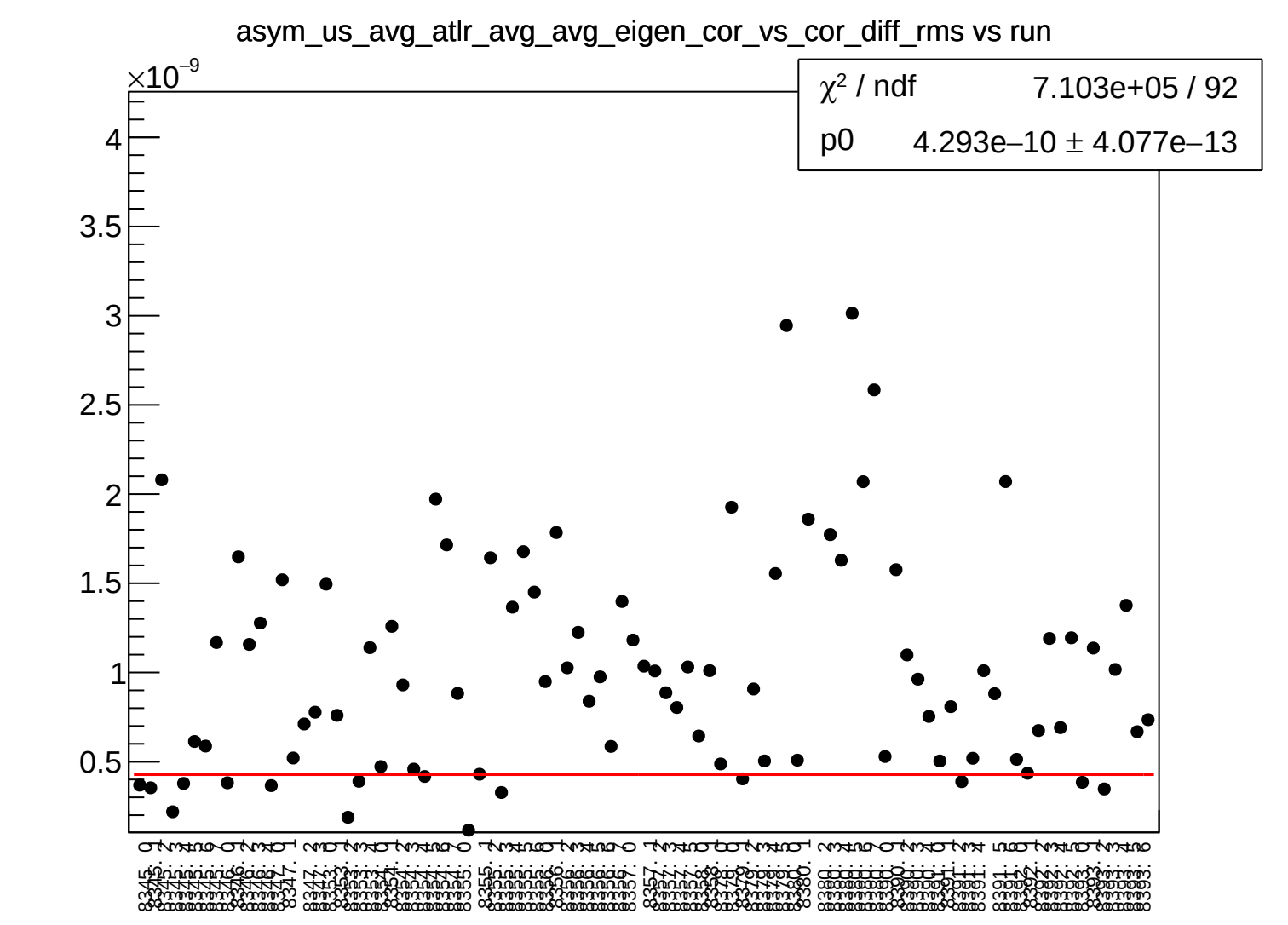

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.284e+05 / 92
p0 196.1 ± 0.1508
550
500
450
400
350
300
250
200
150
100

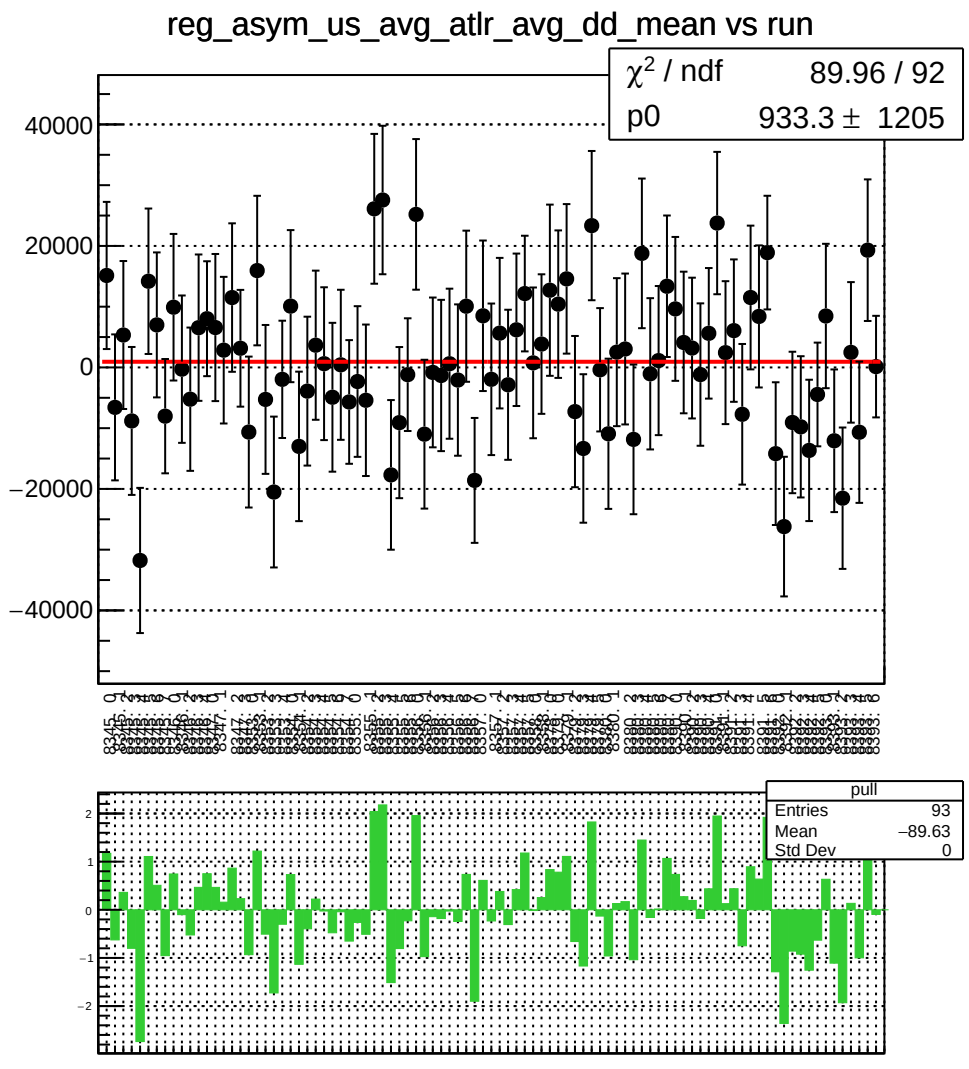

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.99 / 92
p0 0.3715 ± 0.2133
pull
Entries 93
Mean 167.8
Std Dev 0
pull1D
Entries 93
Mean 0.03974
Std Dev 1.01

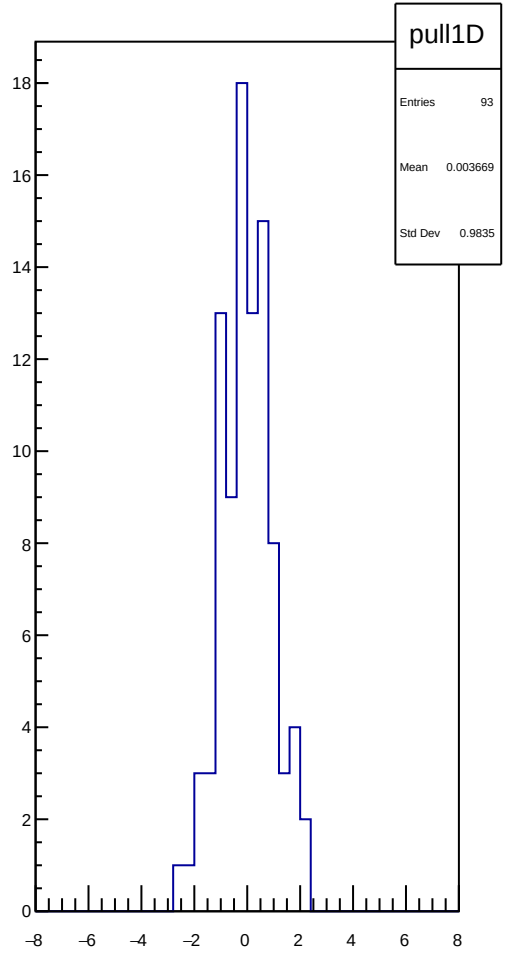

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.284e+05 / 92
p0 196.1 ± 0.1508
550
500
450
400
350
300
250
200
150
100

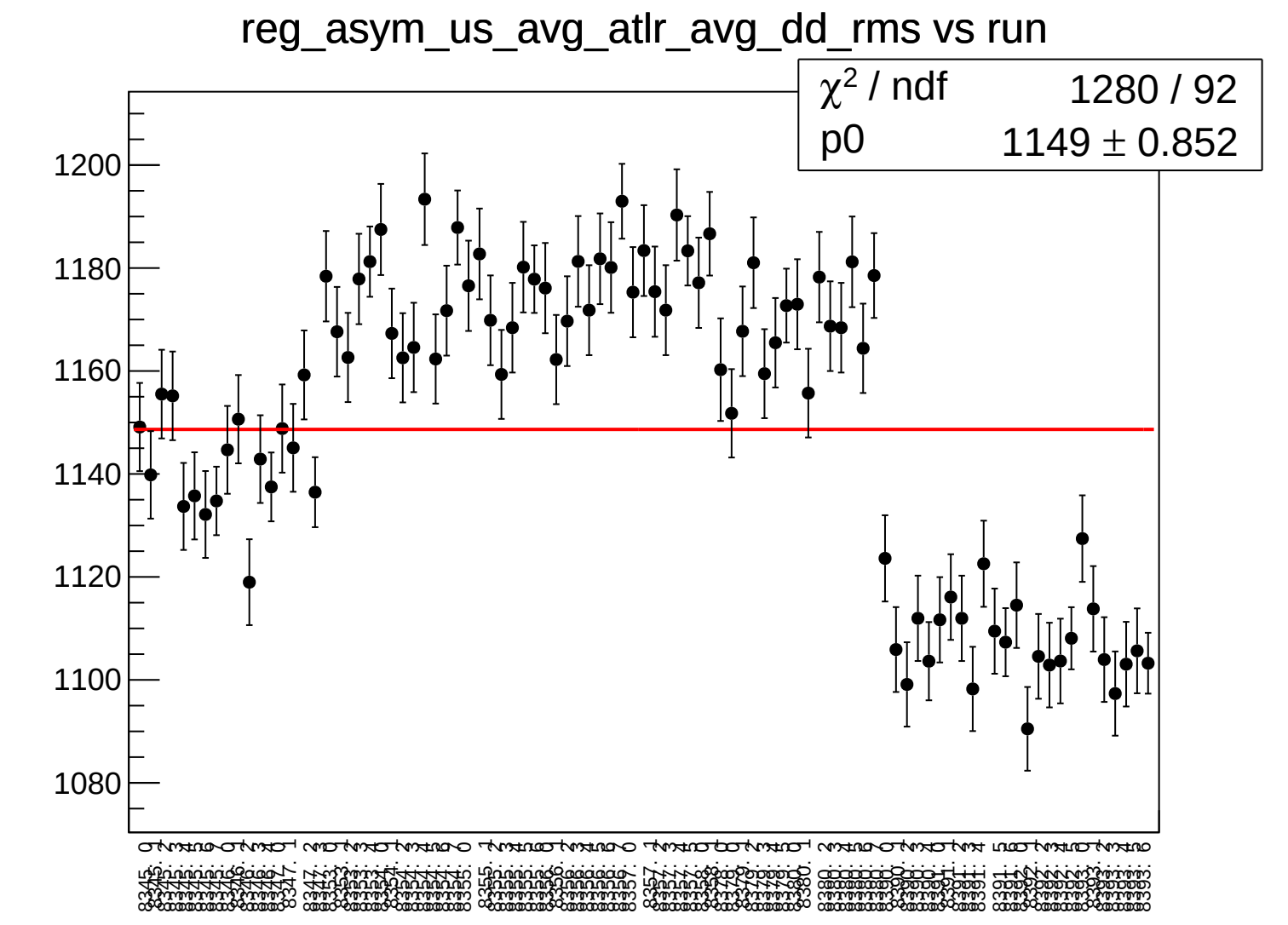

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.11 / 92
p0 6.444e−13 ± 5.766e−13
pull
Entries 93
Mean 32.74
Std Dev 0

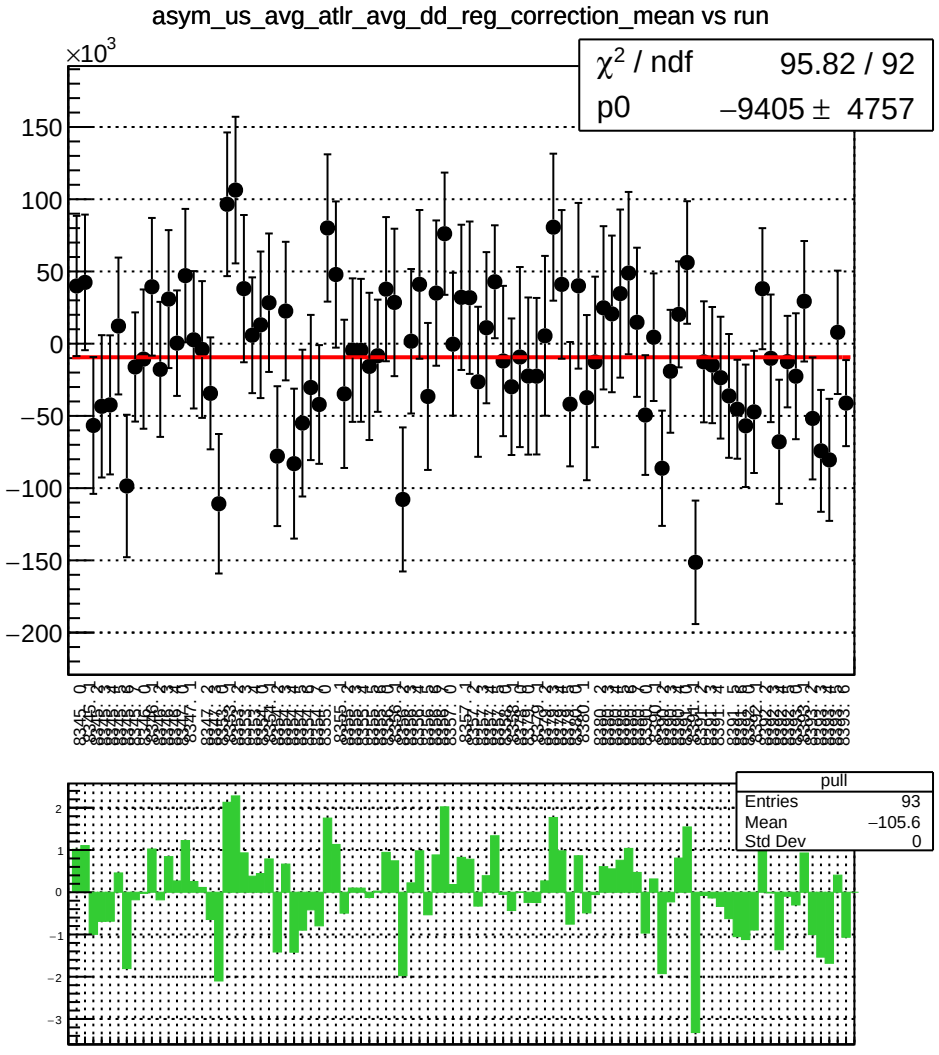

pull1D
Entries 93
Mean 0.06258
Std Dev 0.9878

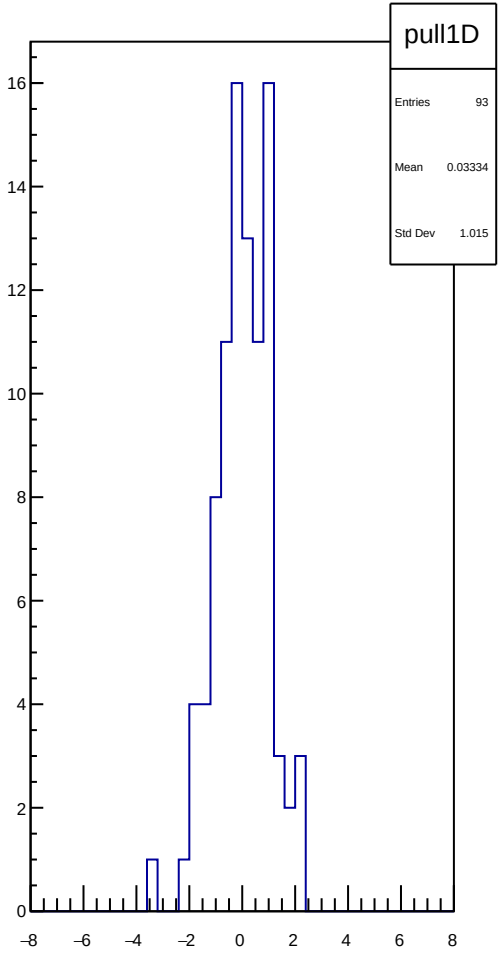

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.103e+05 / 92
p0 4.293e−10 ± 4.077e−13
4
3.5
3
2.5
2
1.5
1
0.5

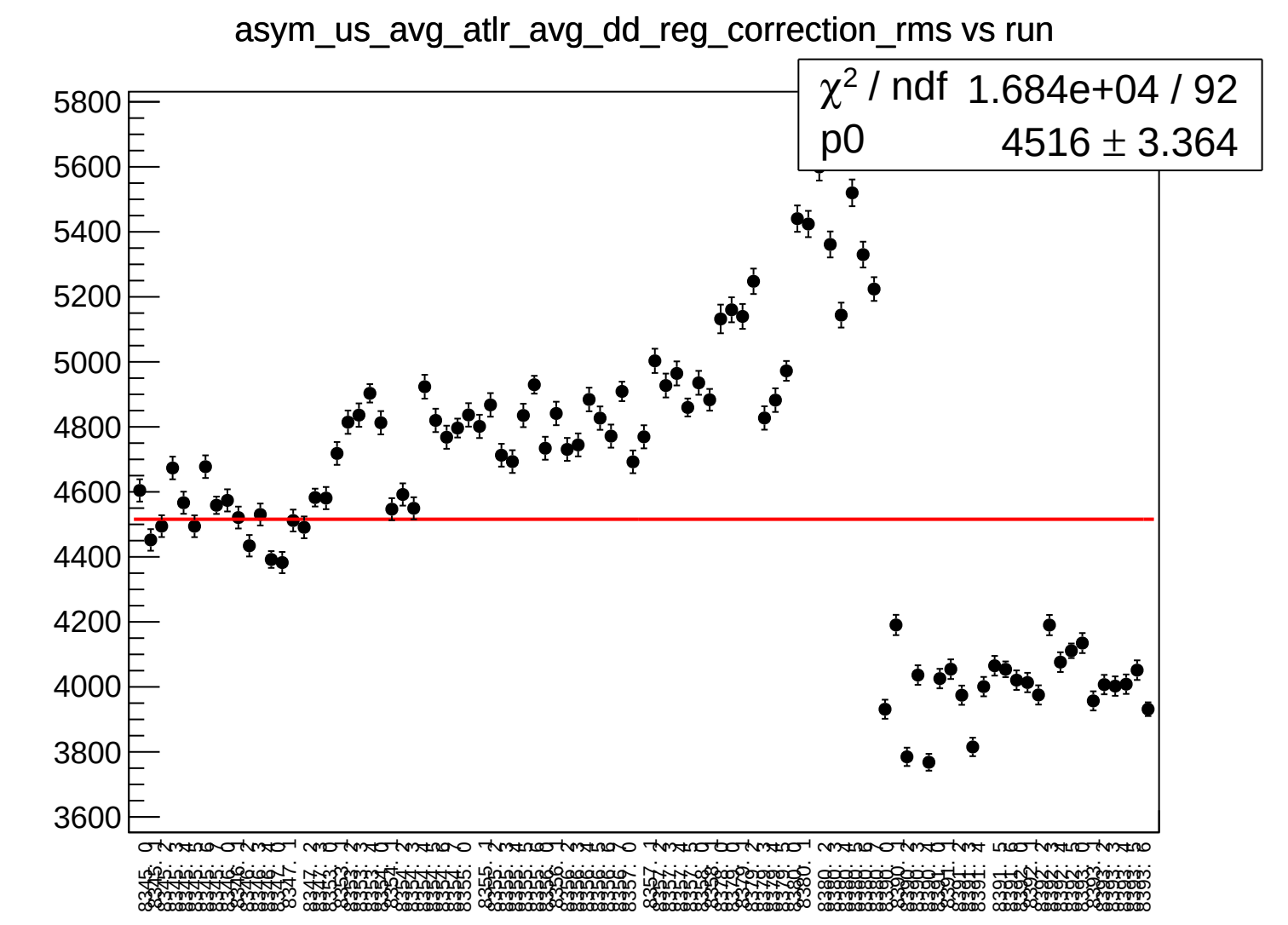

reg_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 89.96 / 92
p0 933.3 ± 1205
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −89.63
Std Dev 0
2
1
0
−1
−2

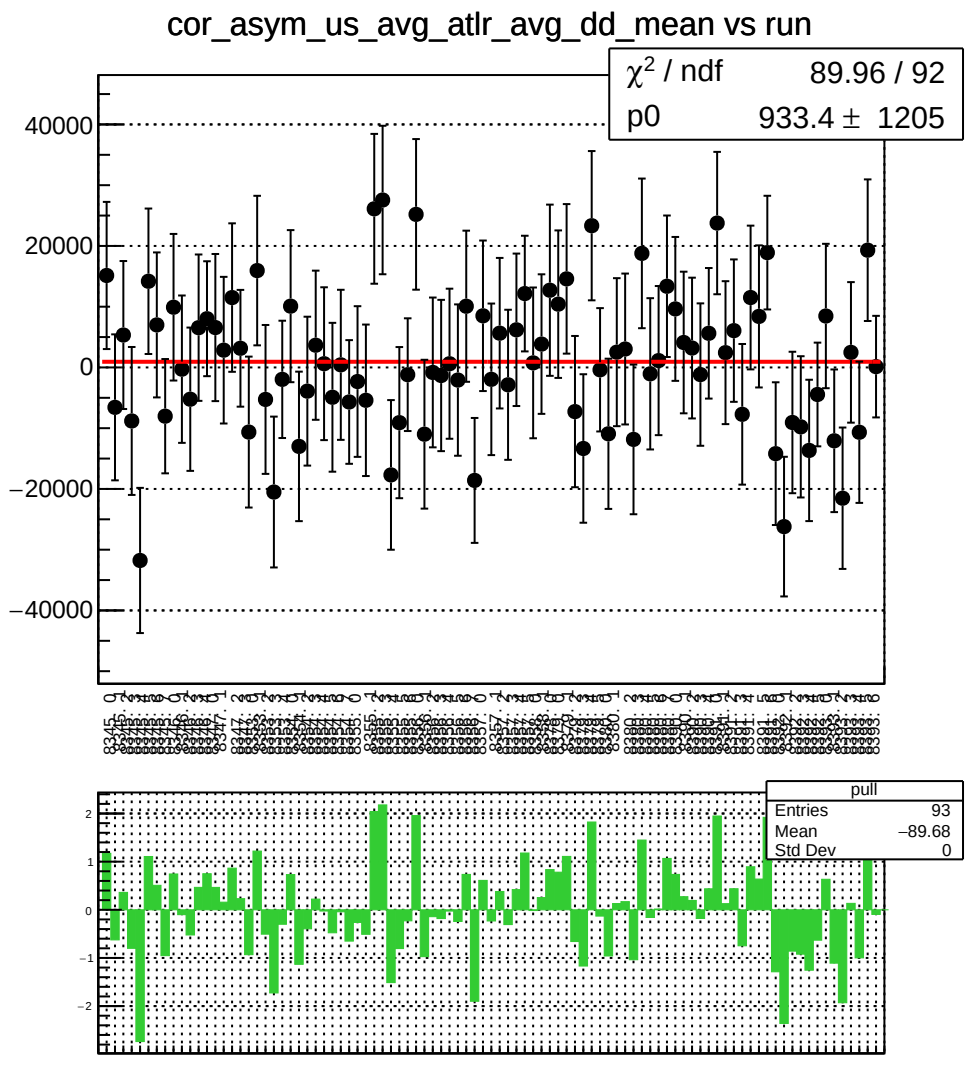

pull1D
Entries 93
Mean 0.003669
Std Dev 0.9835
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

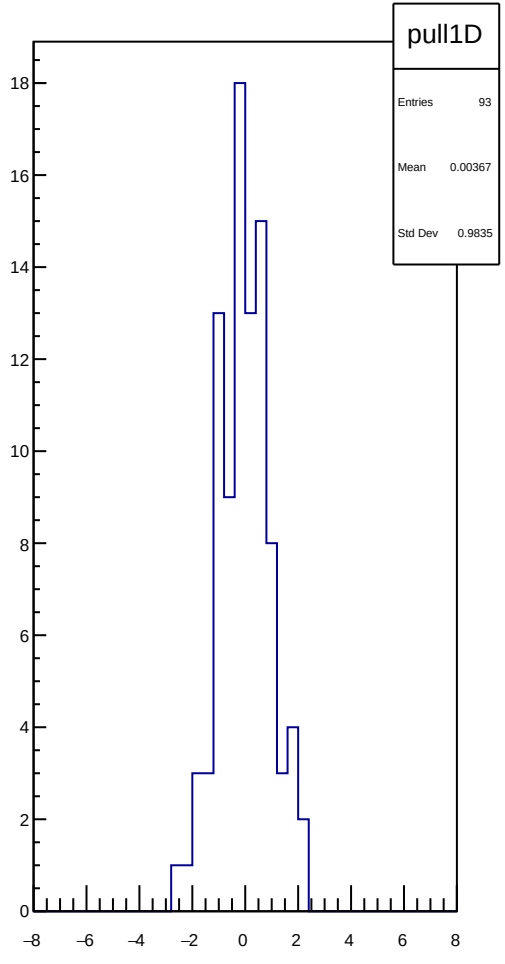

reg_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 1280 / 92
p0 1149 ± 0.852
1200
1180
1160
1140
1120
1100
1080

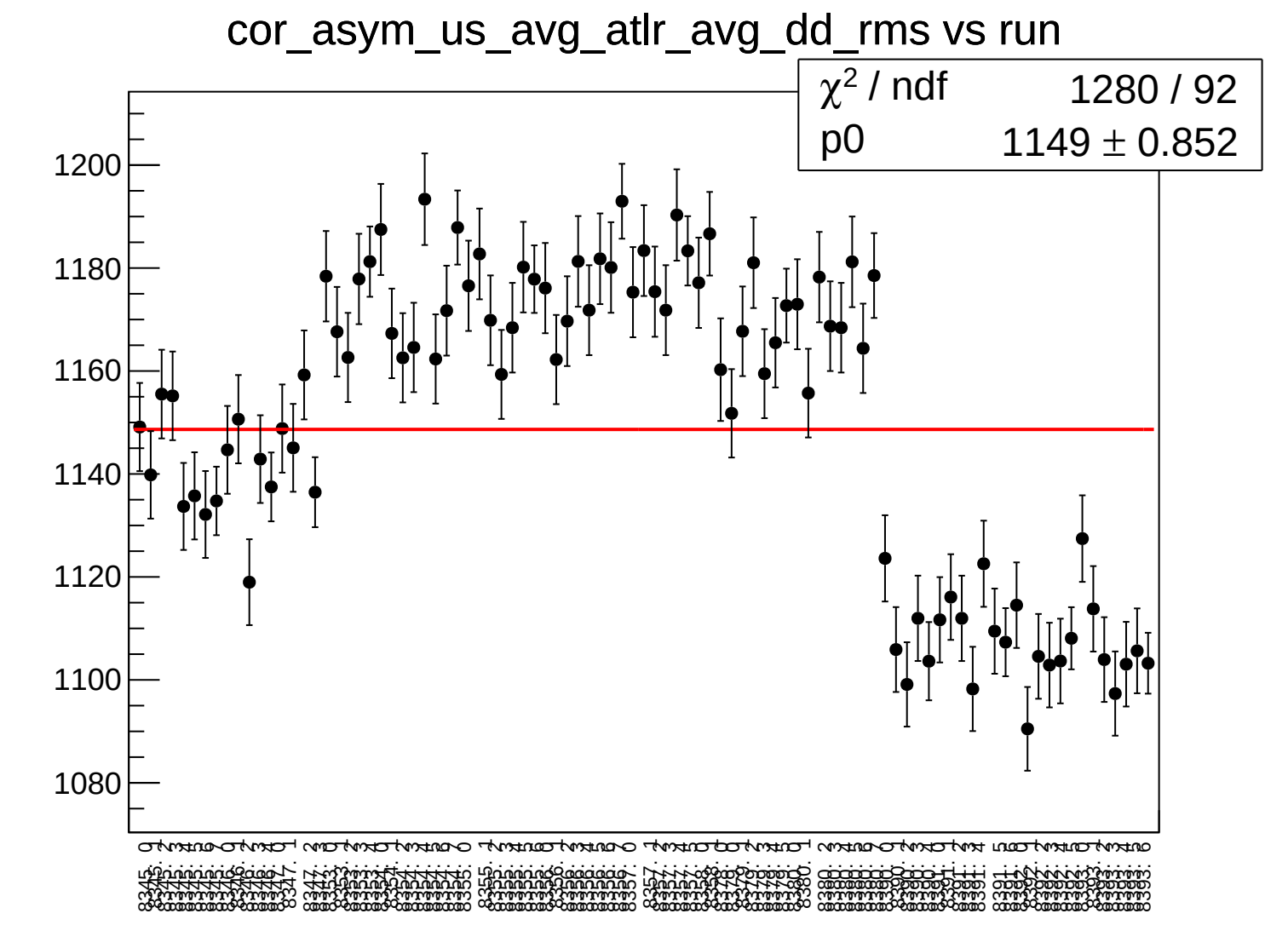

asym_us_avg_atlr_avg_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 95.82 / 92
p0 −9405 ± 4757
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean −105.6
Std Dev 0
2
1
0
−1
−2
−3

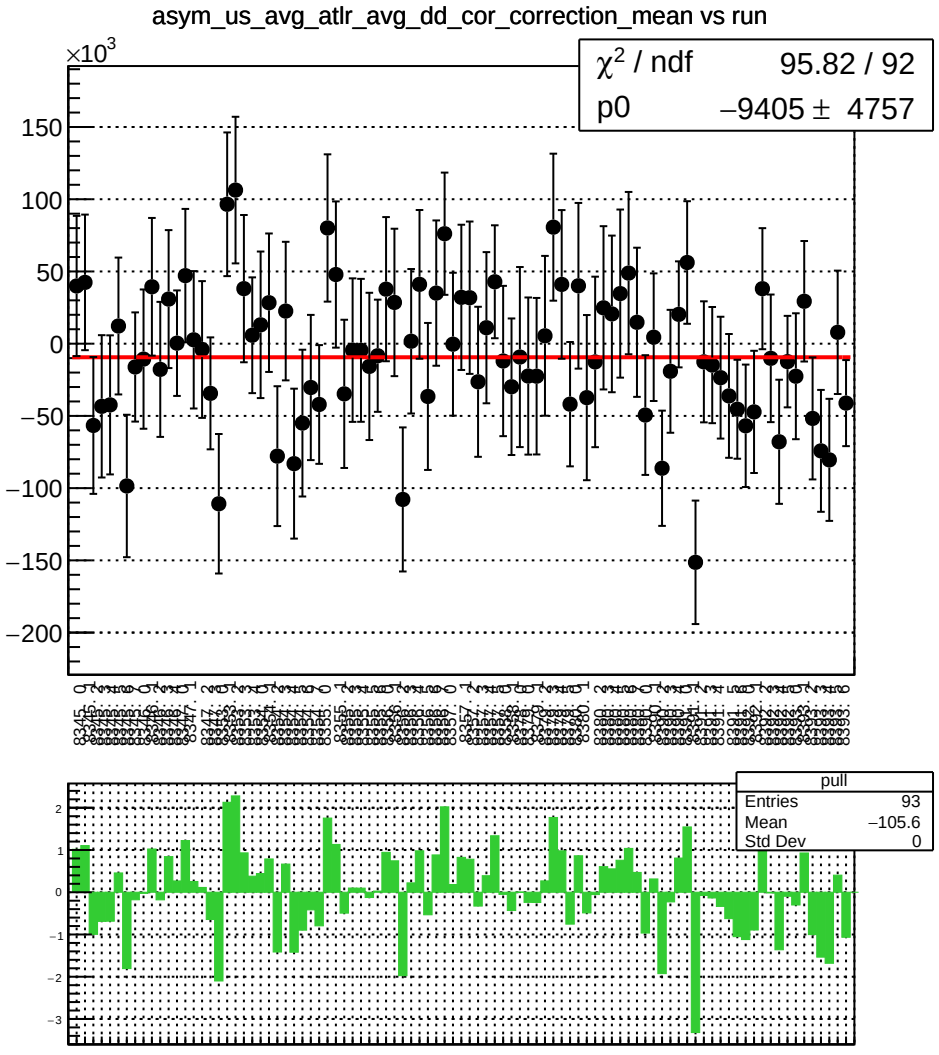

pull1D
Entries 93
Mean 0.03334
Std Dev 1.015
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

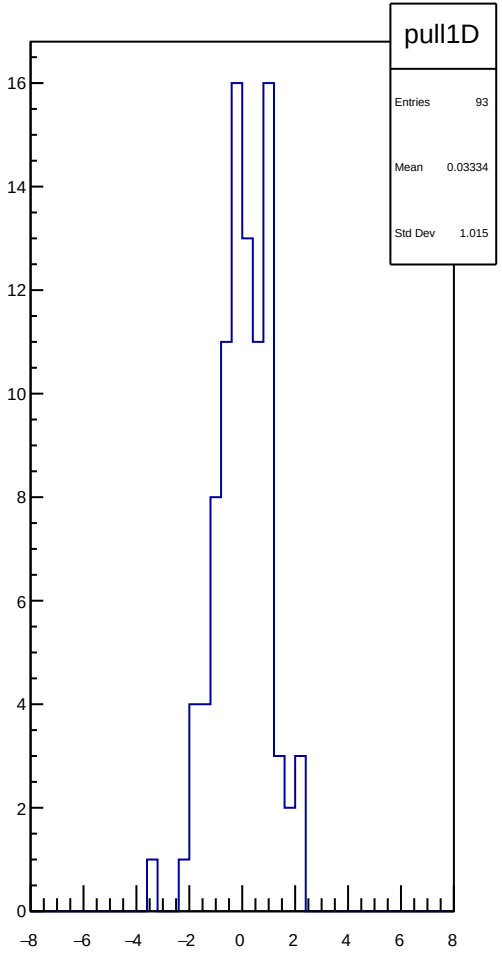

asym_us_avg_atlr_avg_dd_reg_correction_rms vs run
χ² / ndf 1.684e+04 / 92
p0 4516 ± 3.364
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600

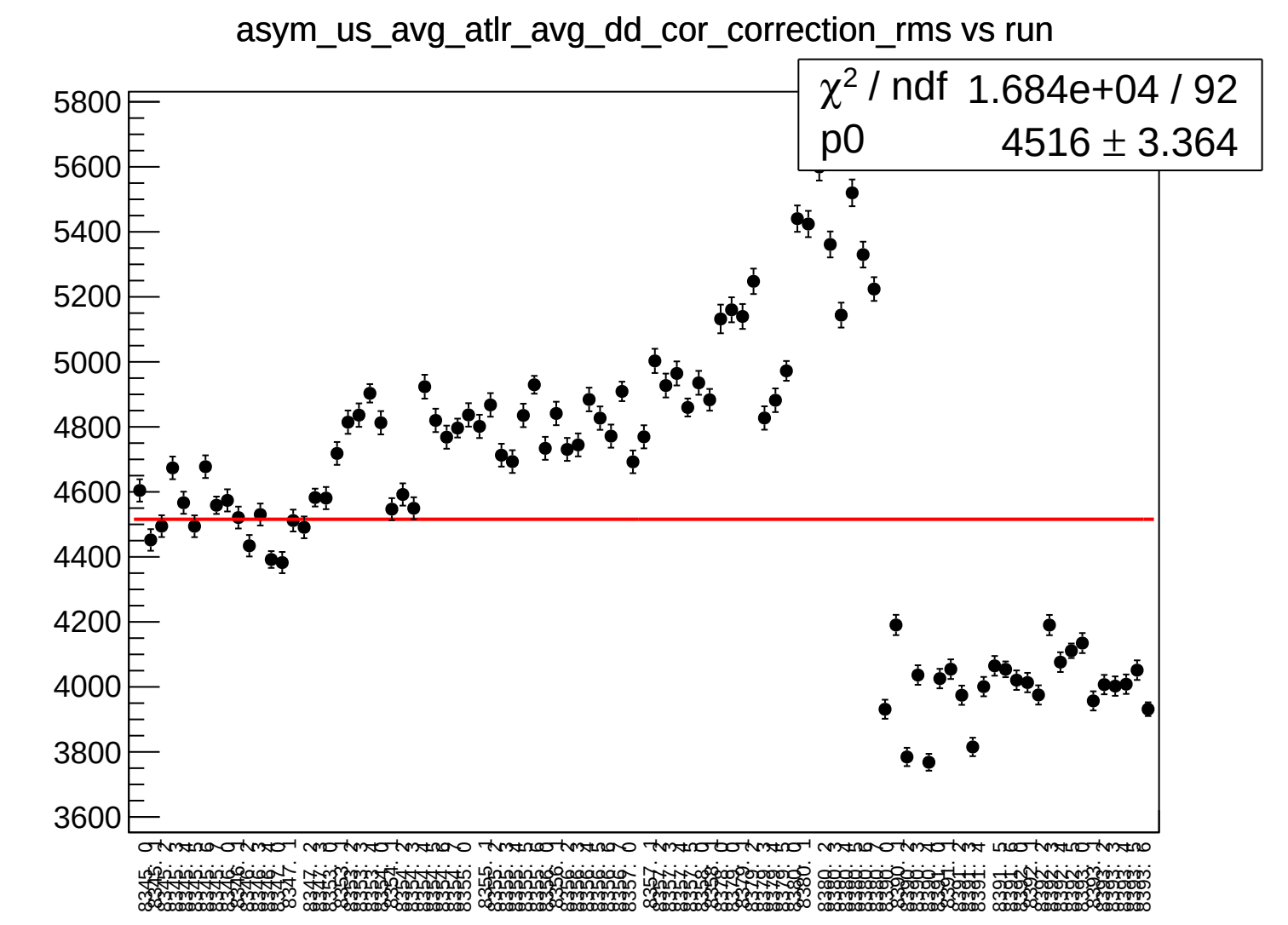

cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 89.96 / 92
p0 933.4 ± 1205
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −89.68
Std Dev 0
2
1
0
−1
−2

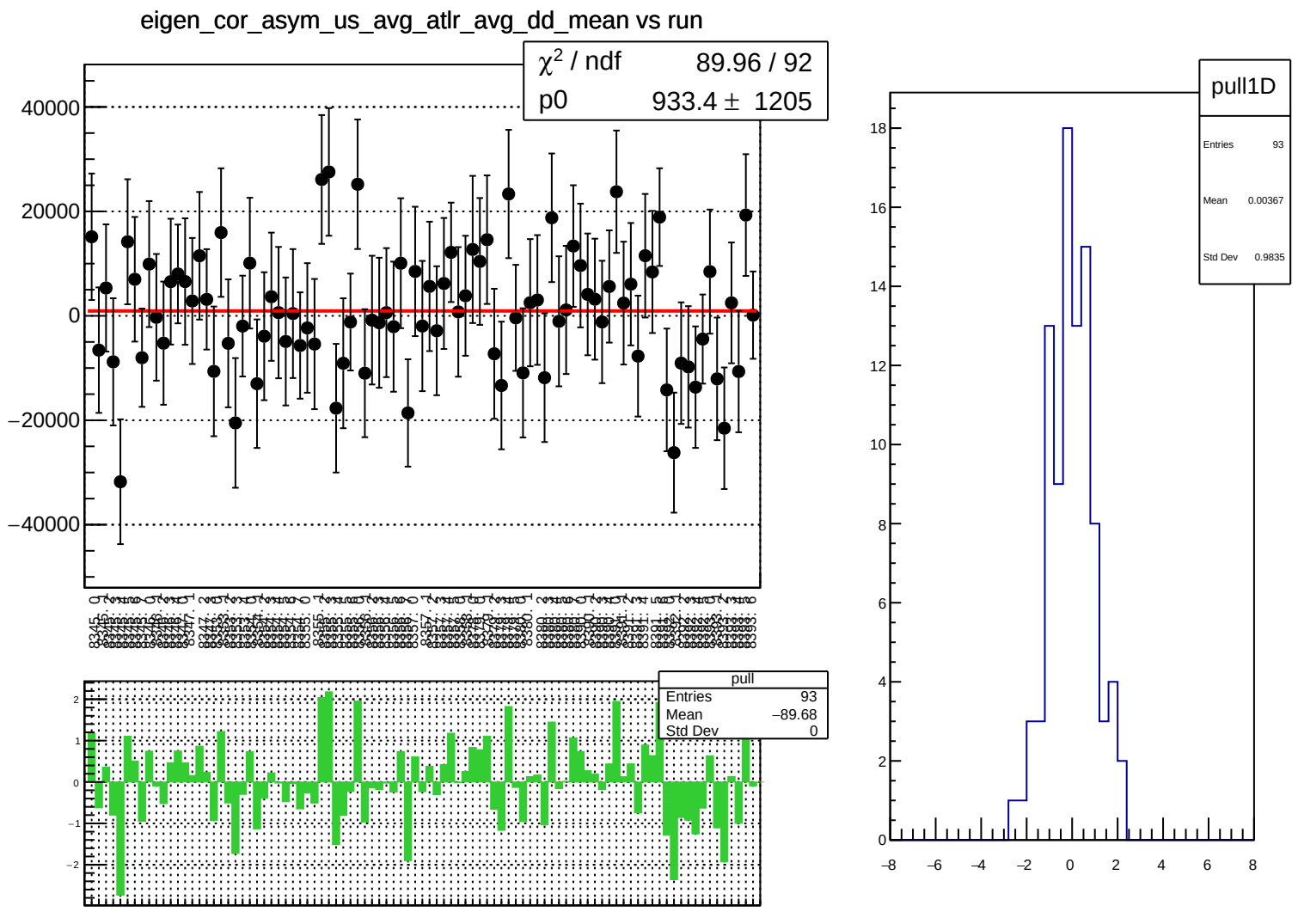

pull1D
Entries 93
Mean 0.00367
Std Dev 0.9835
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

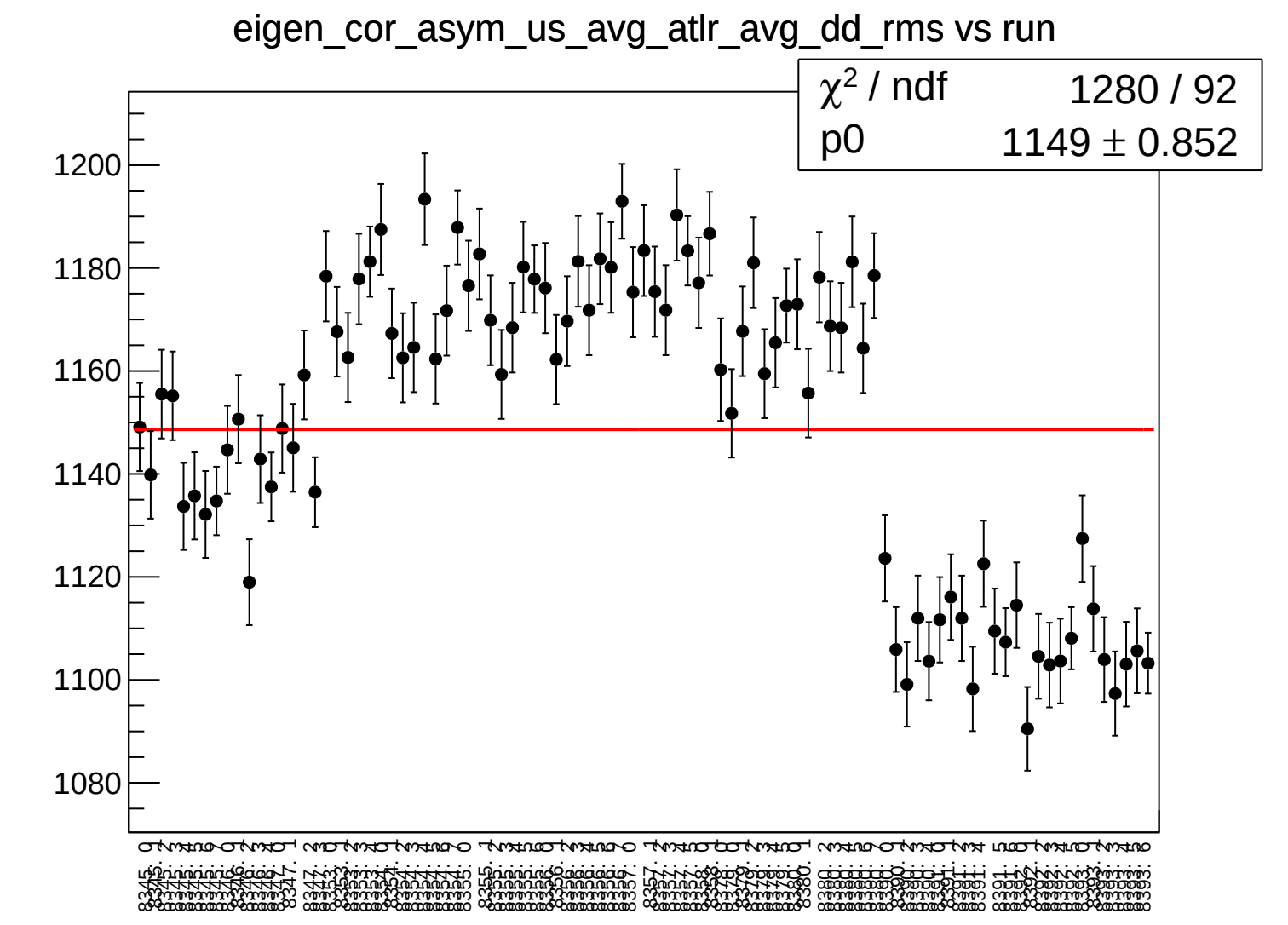

cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 1280 / 92
p0 1149 ± 0.852
1200
1180
1160
1140
1120
1100
1080

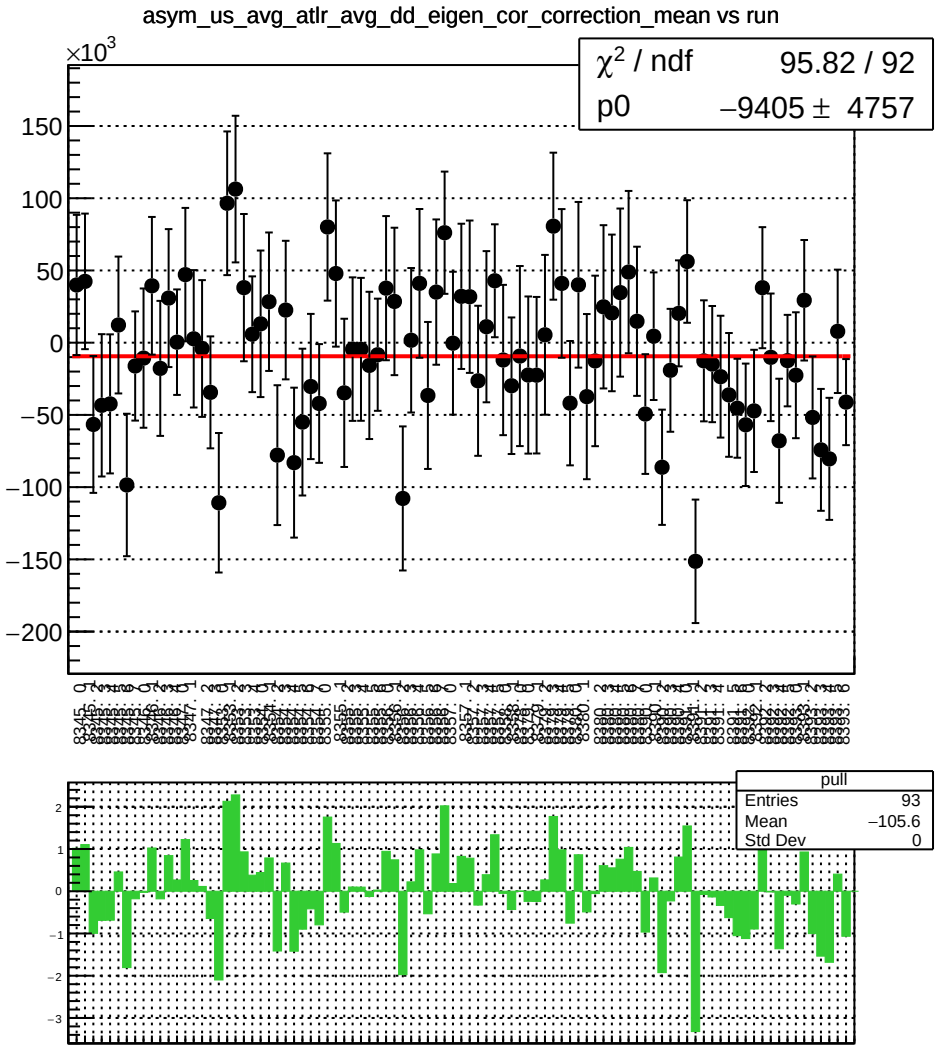

asym_us_avg_atlr_avg_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 95.82 / 92
p0 −9405 ± 4757
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean −105.6
Std Dev 0
2
1
0
−1
−2
−3

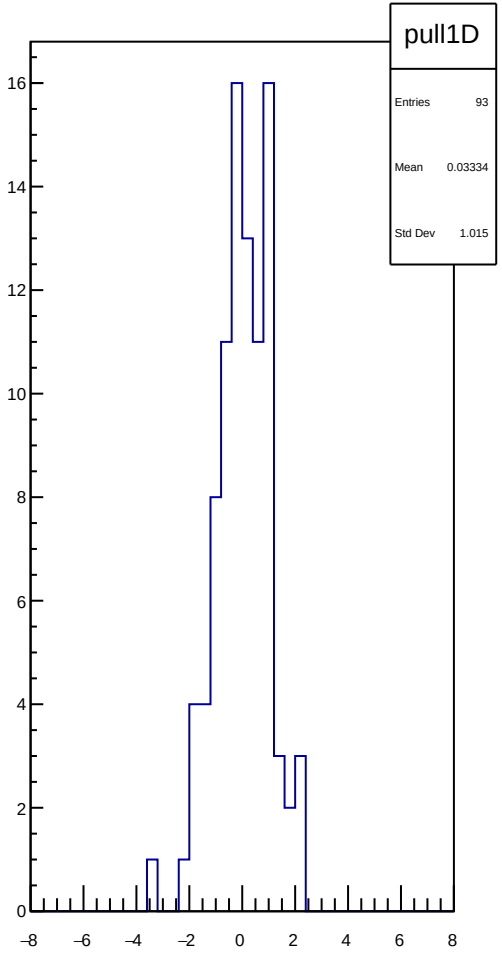

pull1D
Entries 93
Mean 0.03334
Std Dev 1.015
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

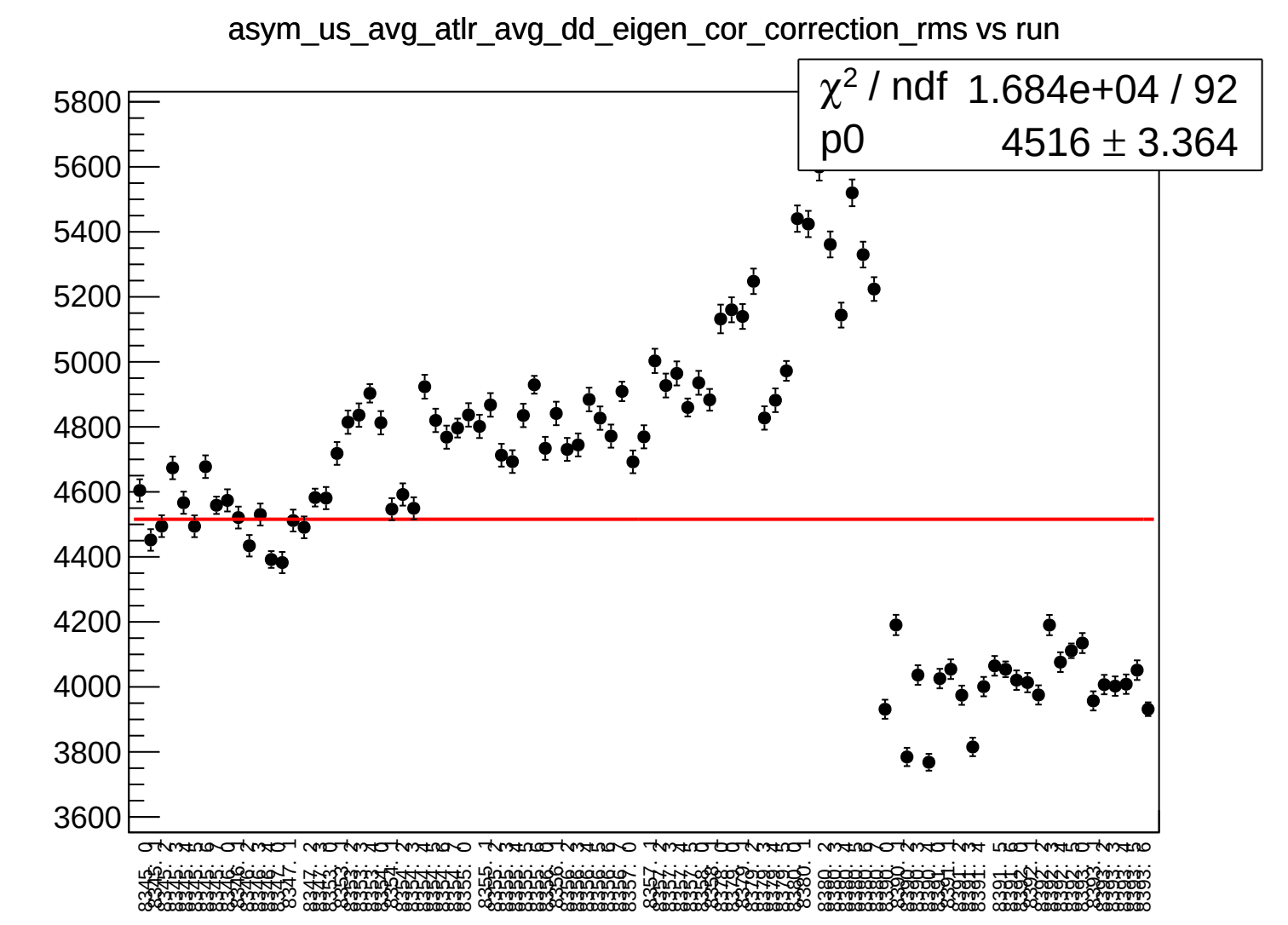

asym_us_avg_atlr_avg_dd_cor_correction_rms vs run
χ² / ndf 1.684e+04 / 92
p0 4516 ± 3.364
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600

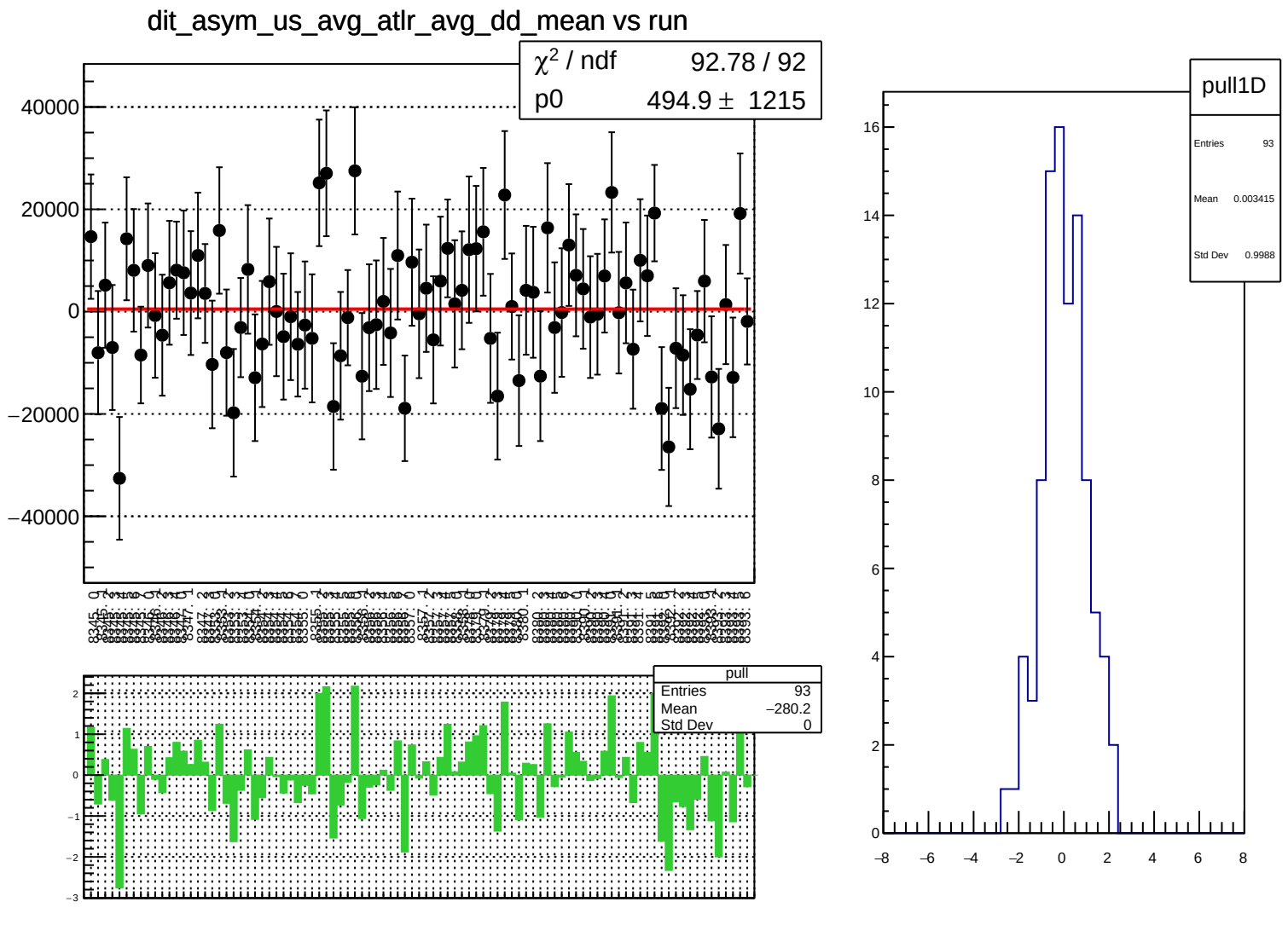

eigen_cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 89.96 / 92
p0 933.4 ± 1205
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −89.68
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.00367
Std Dev 0.9835
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

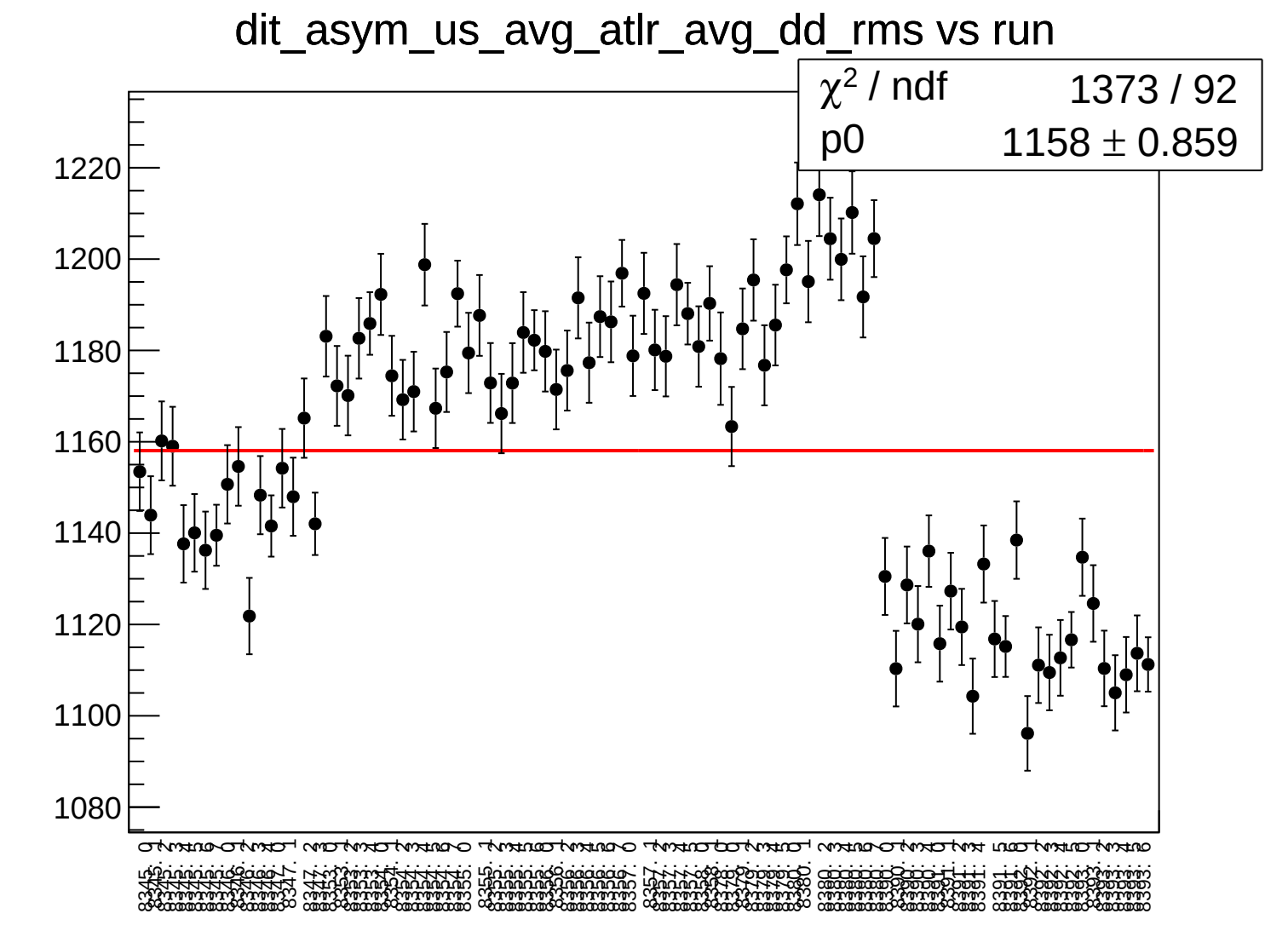

eigen_cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 1280 / 92
p0 1149 ± 0.852
1200
1180
1160
1140
1120
1100
1080

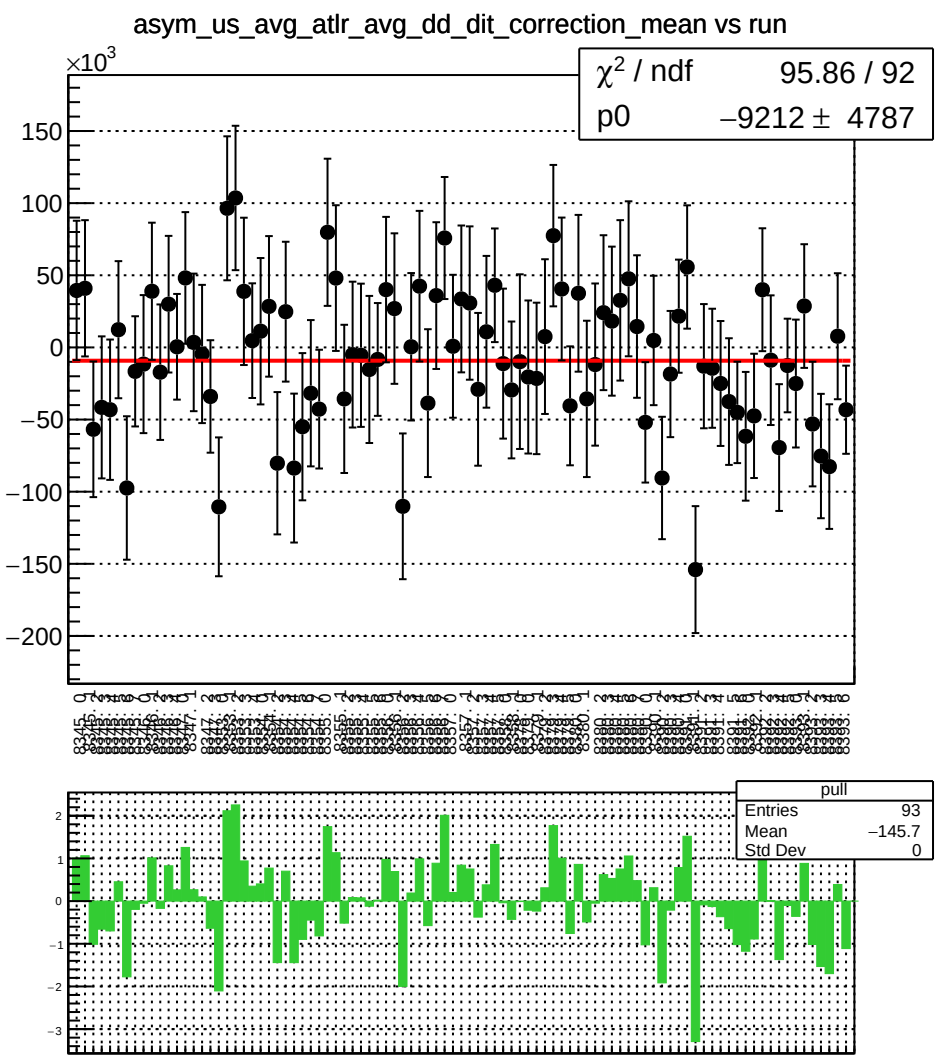

asym_us_avg_atlr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 95.82 / 92
p0 −9405 ± 4757
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean −105.6
Std Dev 0
2
1
0
−1
−2
−3

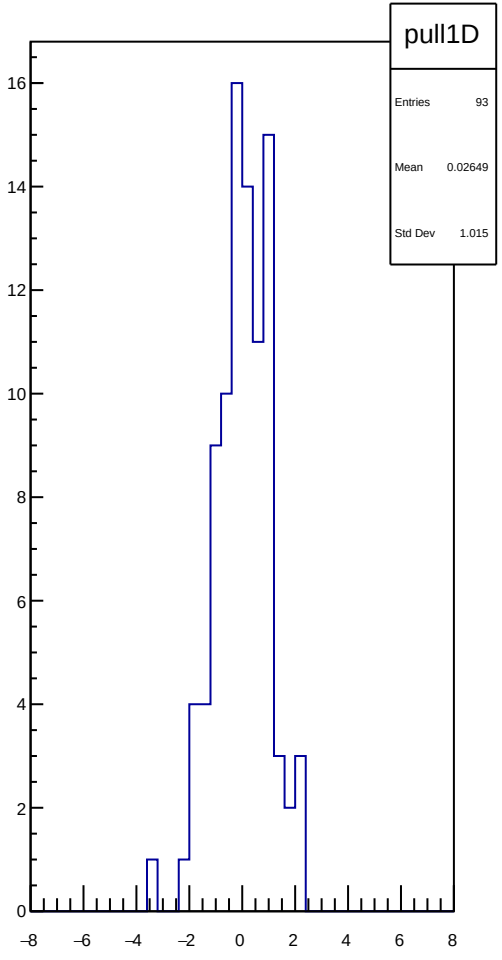

pull1D
Entries 93
Mean 0.03334
Std Dev 1.015
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

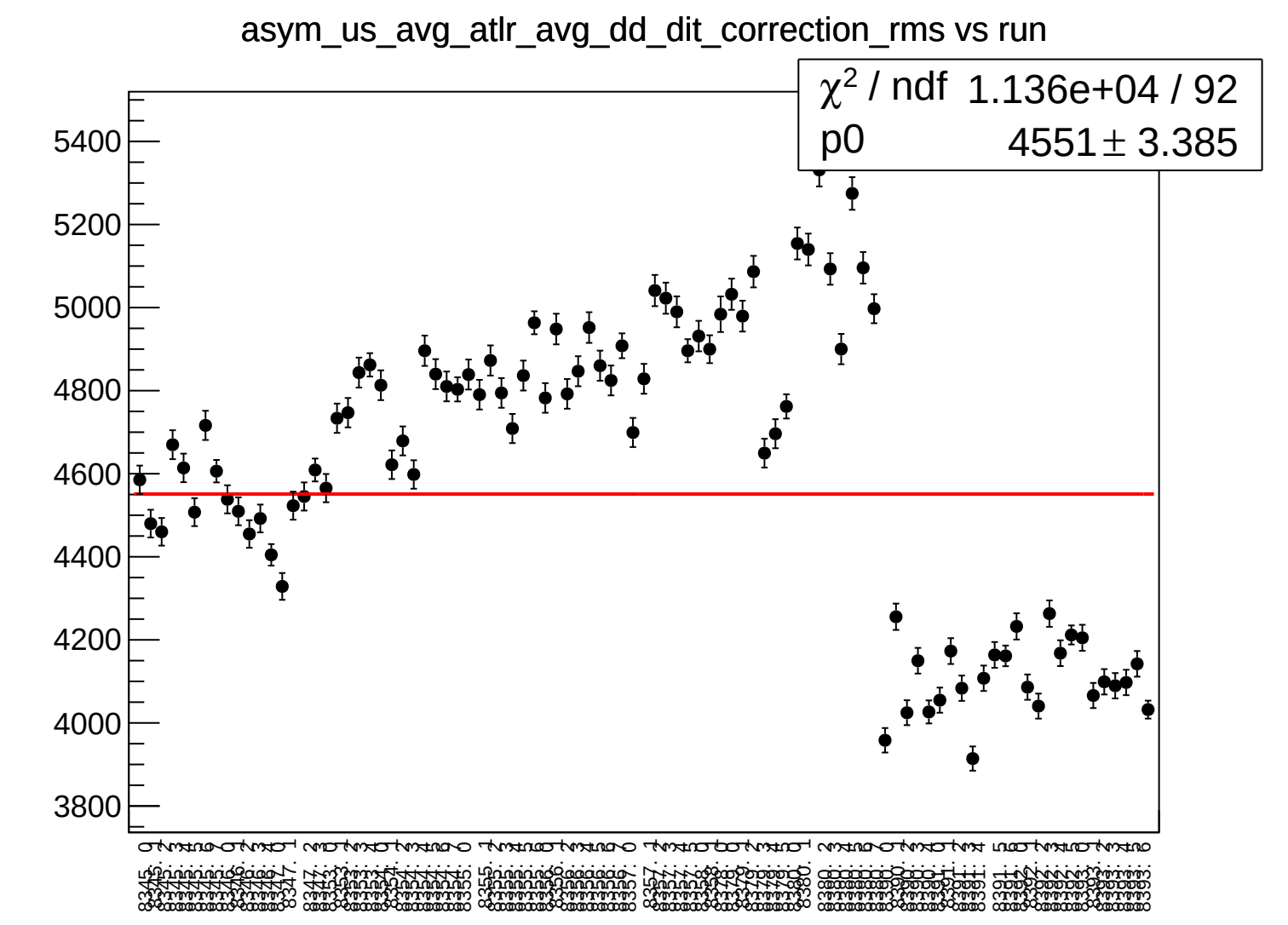

asym_us_avg_atlr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.684e+04 / 92
p0 4516 ± 3.364
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600

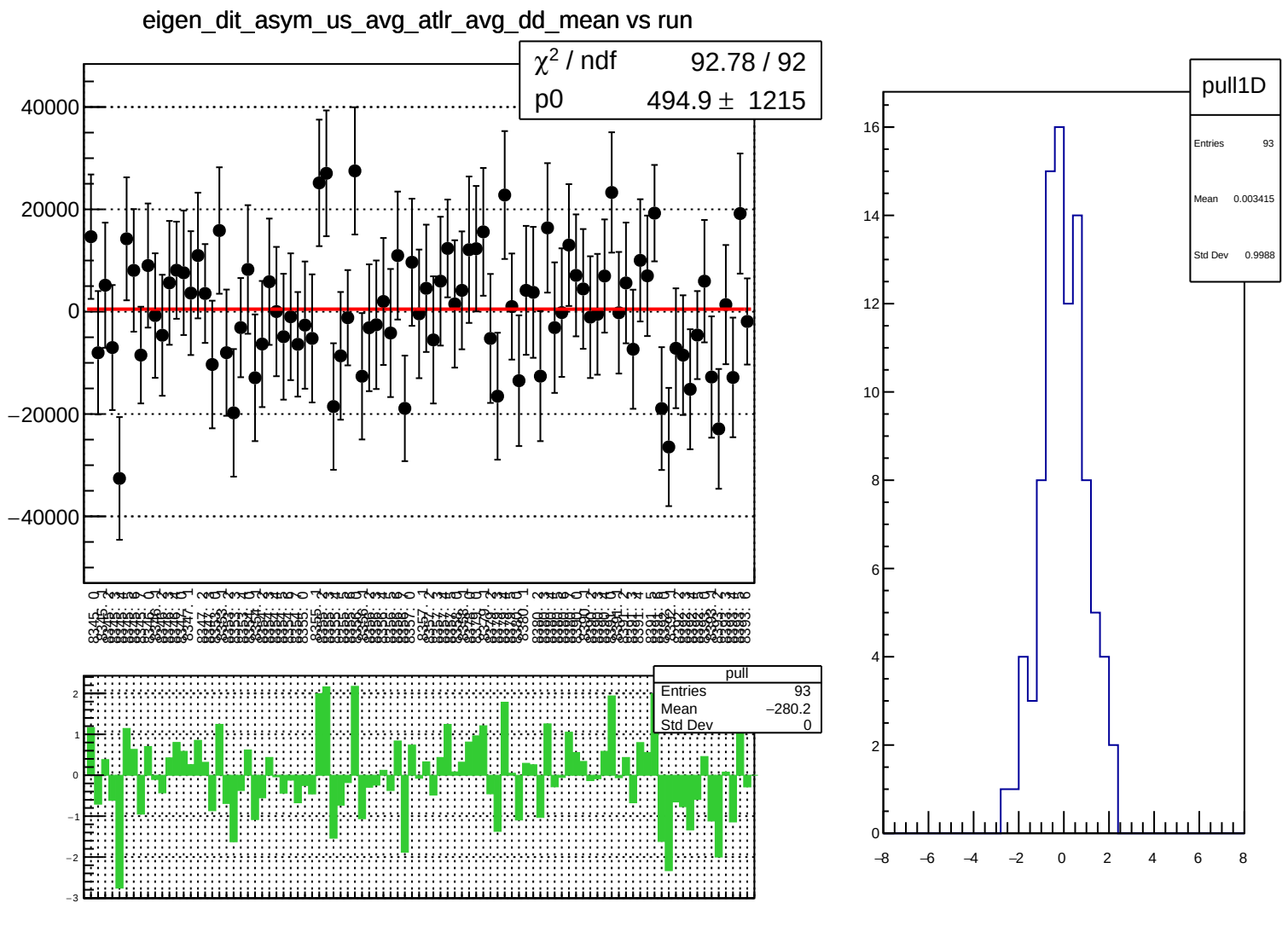

dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 92.78 / 92
p0 494.9 ± 1215
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −280.2
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.003415
Std Dev 0.9988
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

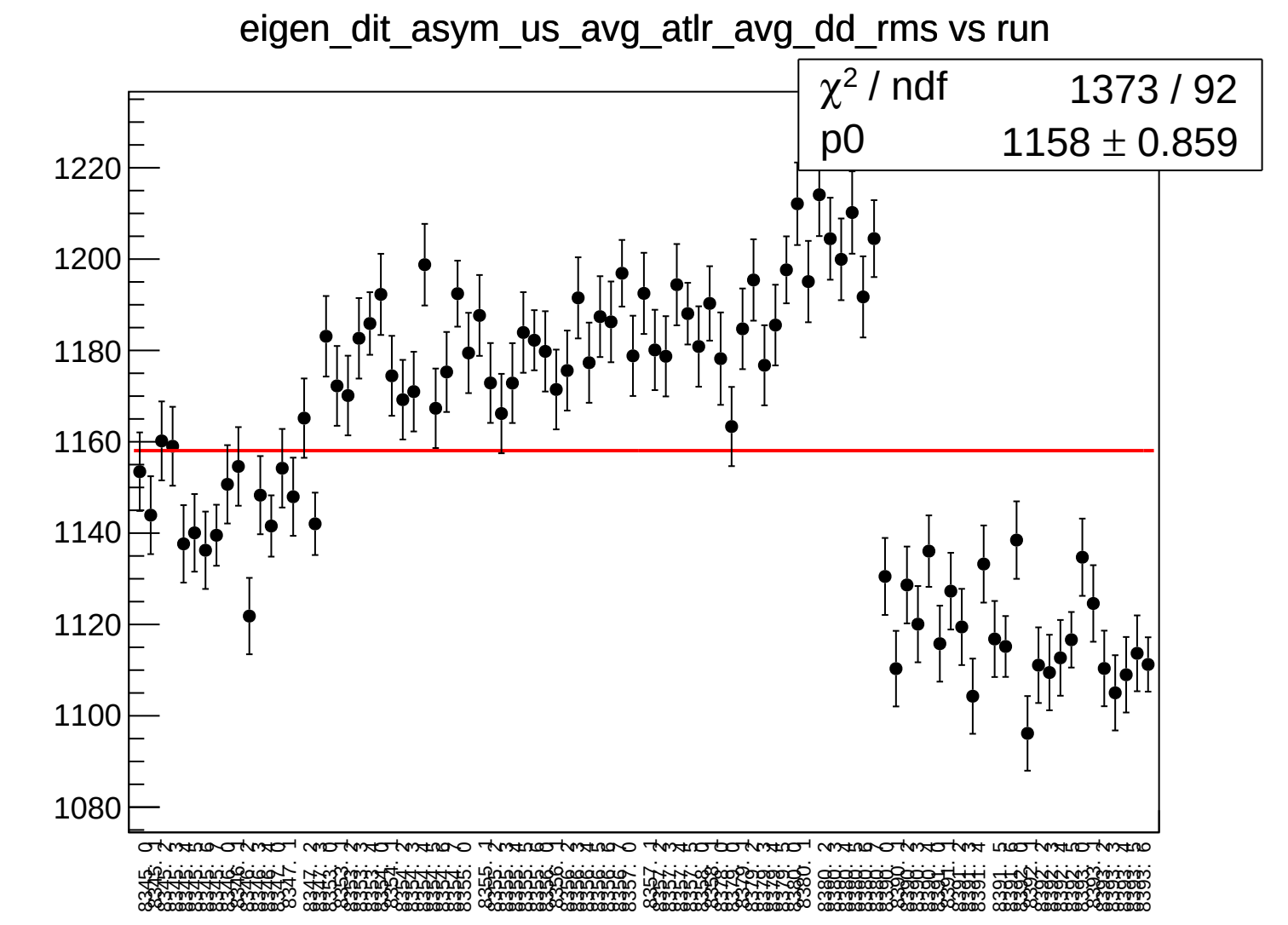

dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 1373 / 92
p0 1158 ± 0.859
1220
1200
1180
1160
1140
1120
1100
1080

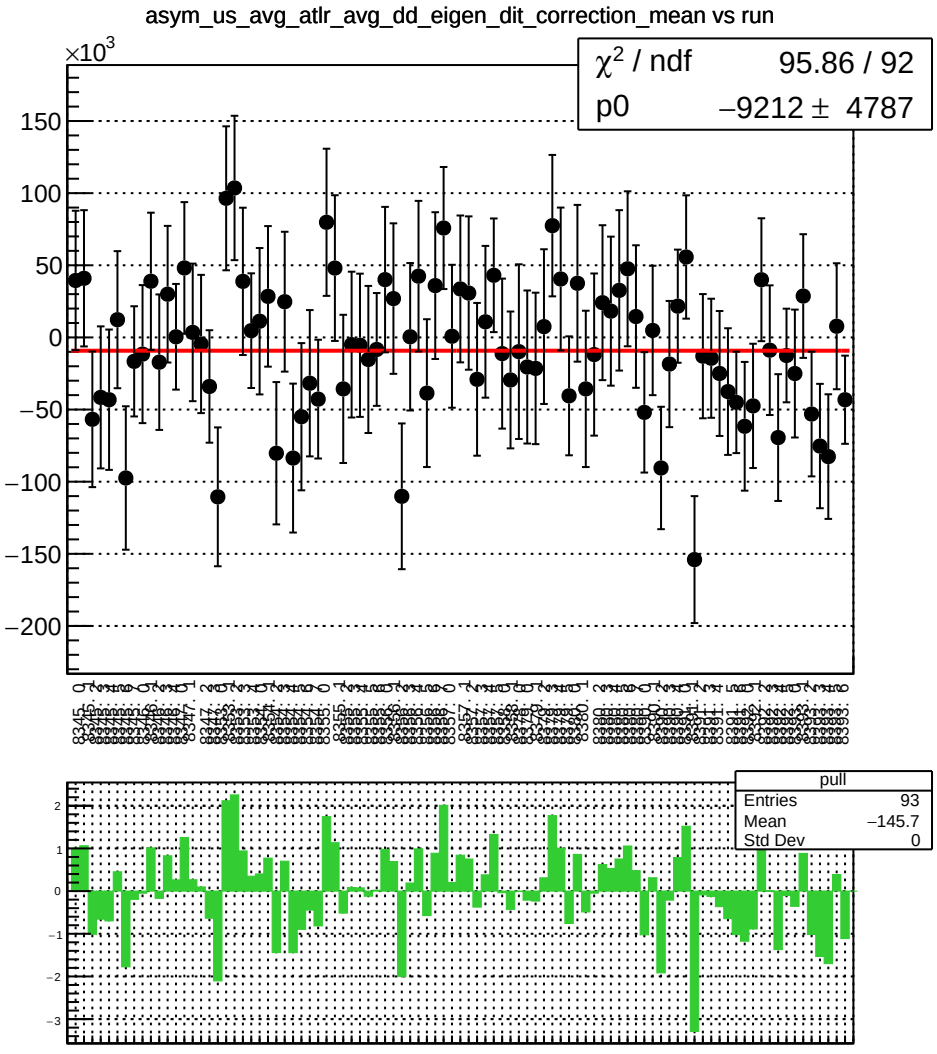

asym_us_avg_atlr_avg_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 95.86 / 92
p0 −9212 ± 4787
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean −145.7
Std Dev 0
2
1
0
−1
−2
−3

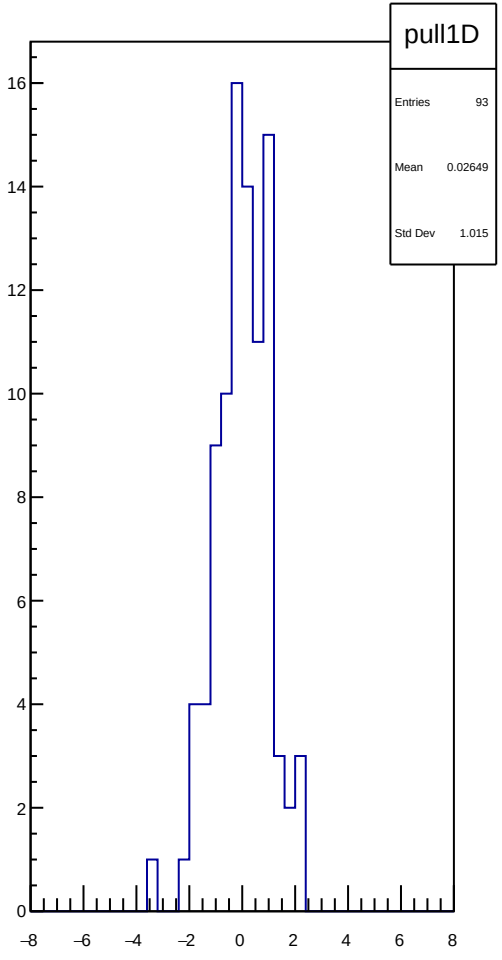

pull1D
Entries 93
Mean 0.02649
Std Dev 1.015
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

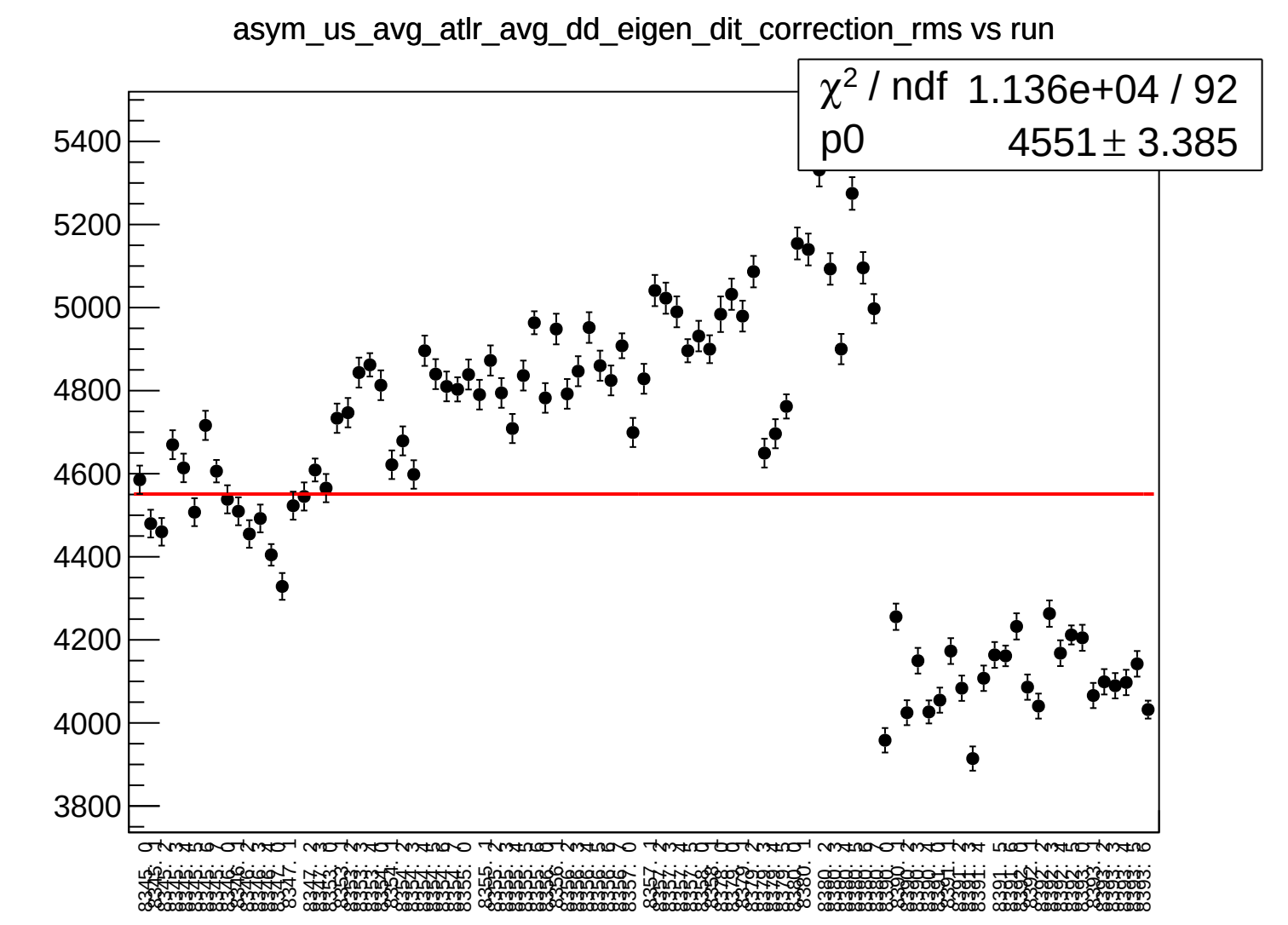

asym_us_avg_atlr_avg_dd_dit_correction_rms vs run
χ² / ndf 1.136e+04 / 92
p0 4551 ± 3.385
5400
5200
5000
4800
4600
4400
4200
4000
3800

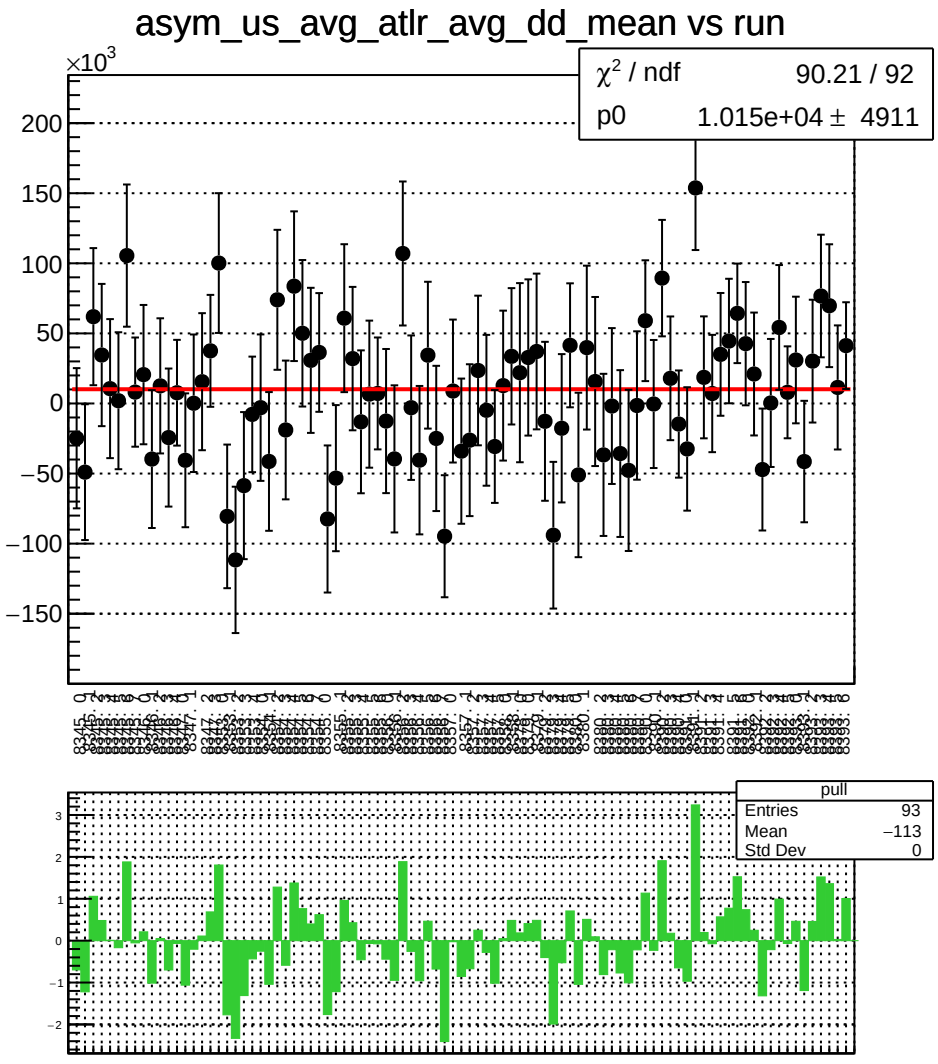

eigen_dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 92.78 / 92
p0 494.9 ± 1215
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −280.2
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.003415
Std Dev 0.9988
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

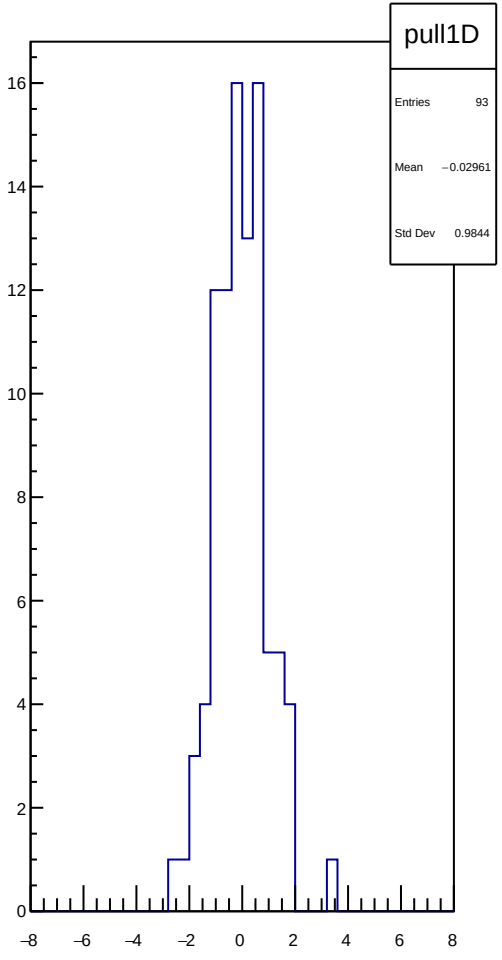

eigen_dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 1373 / 92
p0 1158 ± 0.859
1220
1200
1180
1160
1140
1120
1100
1080

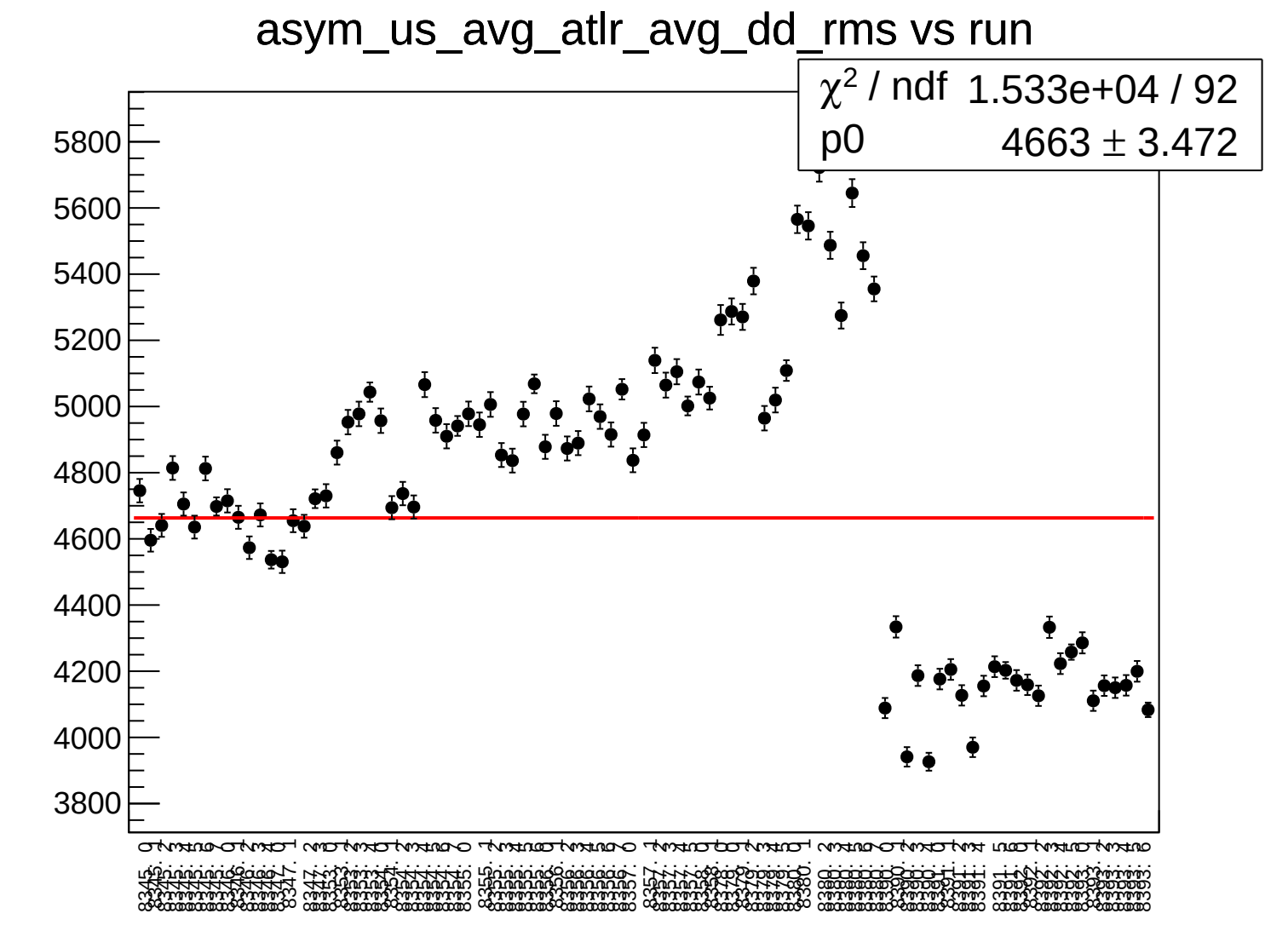

asym_us_avg_atlr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 95.86 / 92
p0 −9212 ± 4787
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean −145.7
Std Dev 0
2
1
0
−1
−2
−3

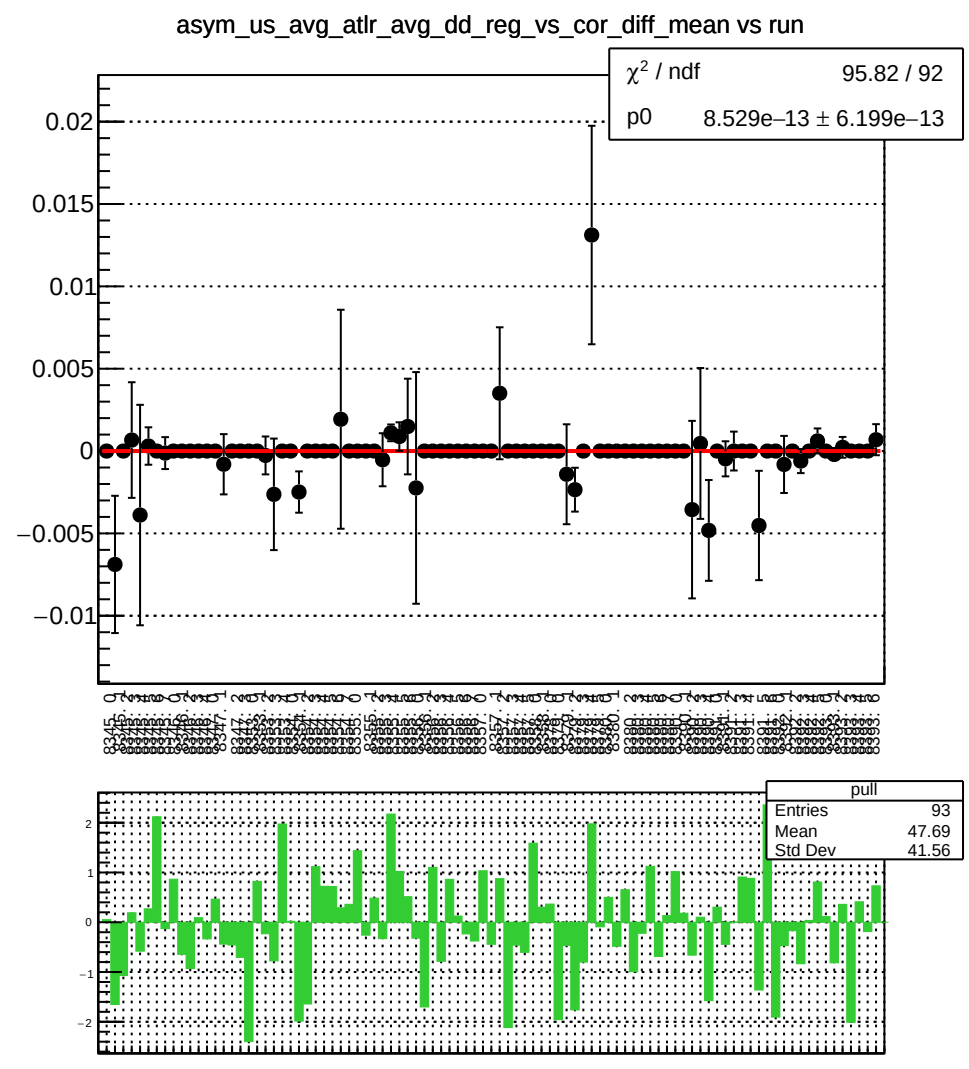

pull1D
Entries 93
Mean 0.02649
Std Dev 1.015
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

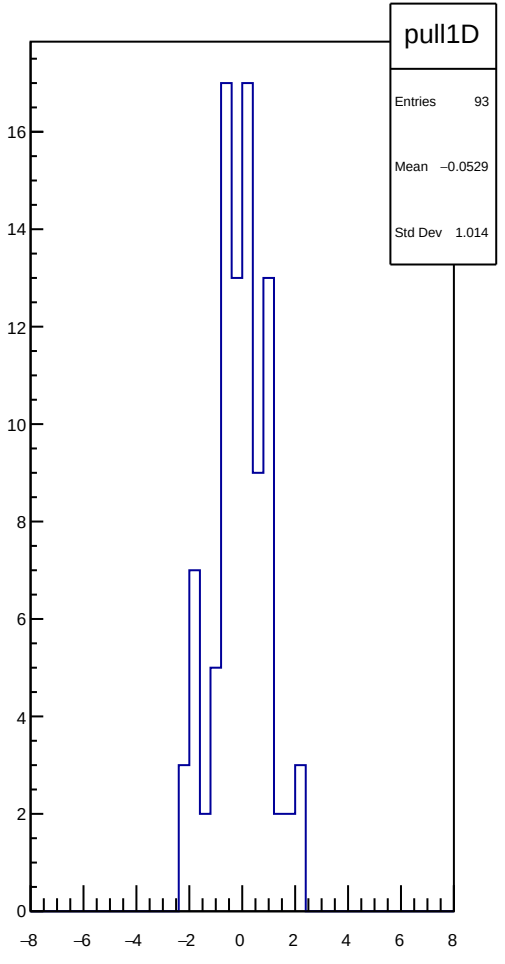

asym_us_avg_atlr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.136e+04 / 92
p0 4551 ± 3.385
5400
5200
5000
4800
4600
4400
4200
4000
3800

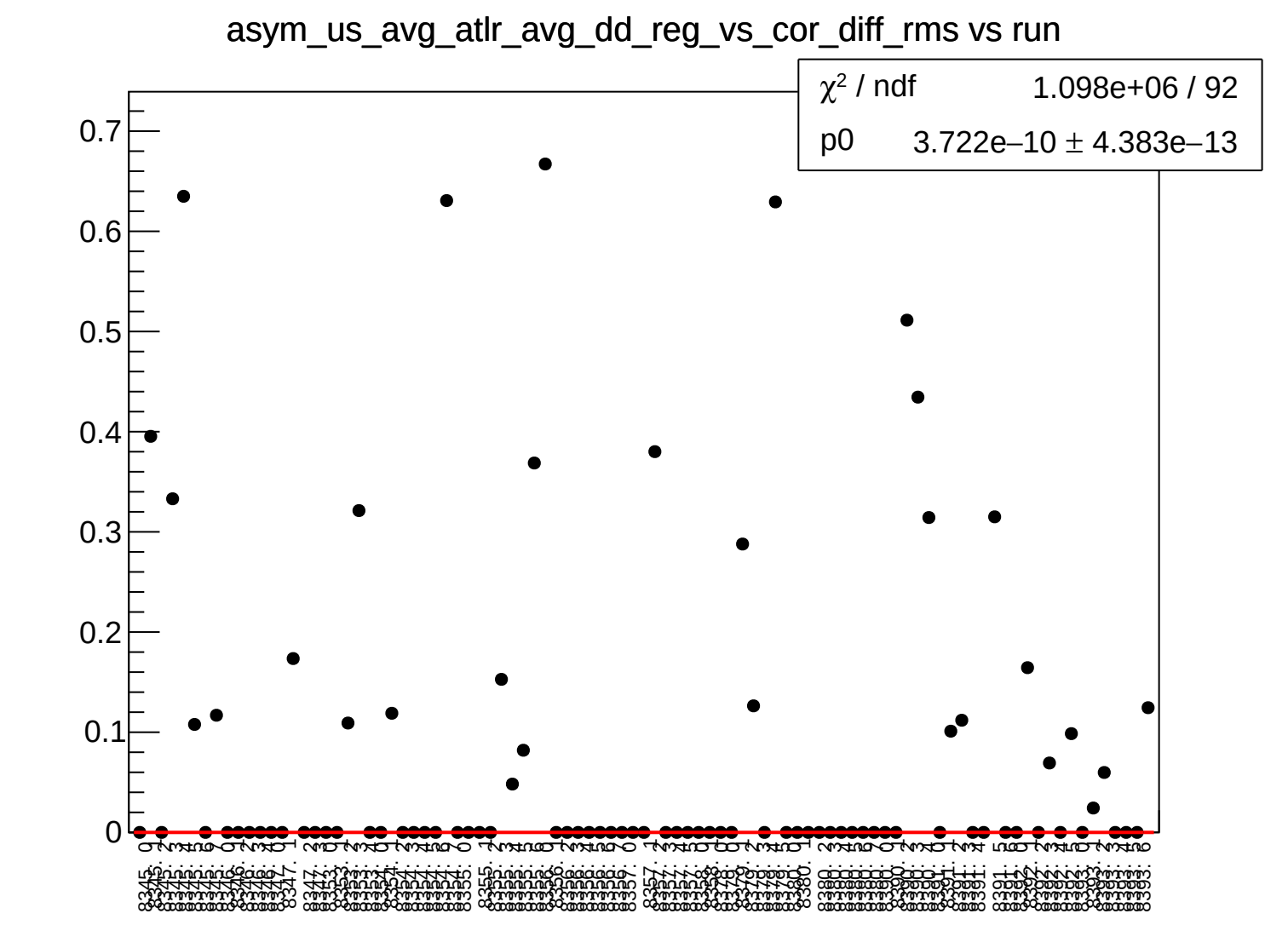

asym_us_avg_atlr_avg_dd_mean vs run
×10^3
χ² / ndf 90.21 / 92
p0 1.015e+04 ± 4911
pull
Entries 93
Mean −113
Std Dev 0

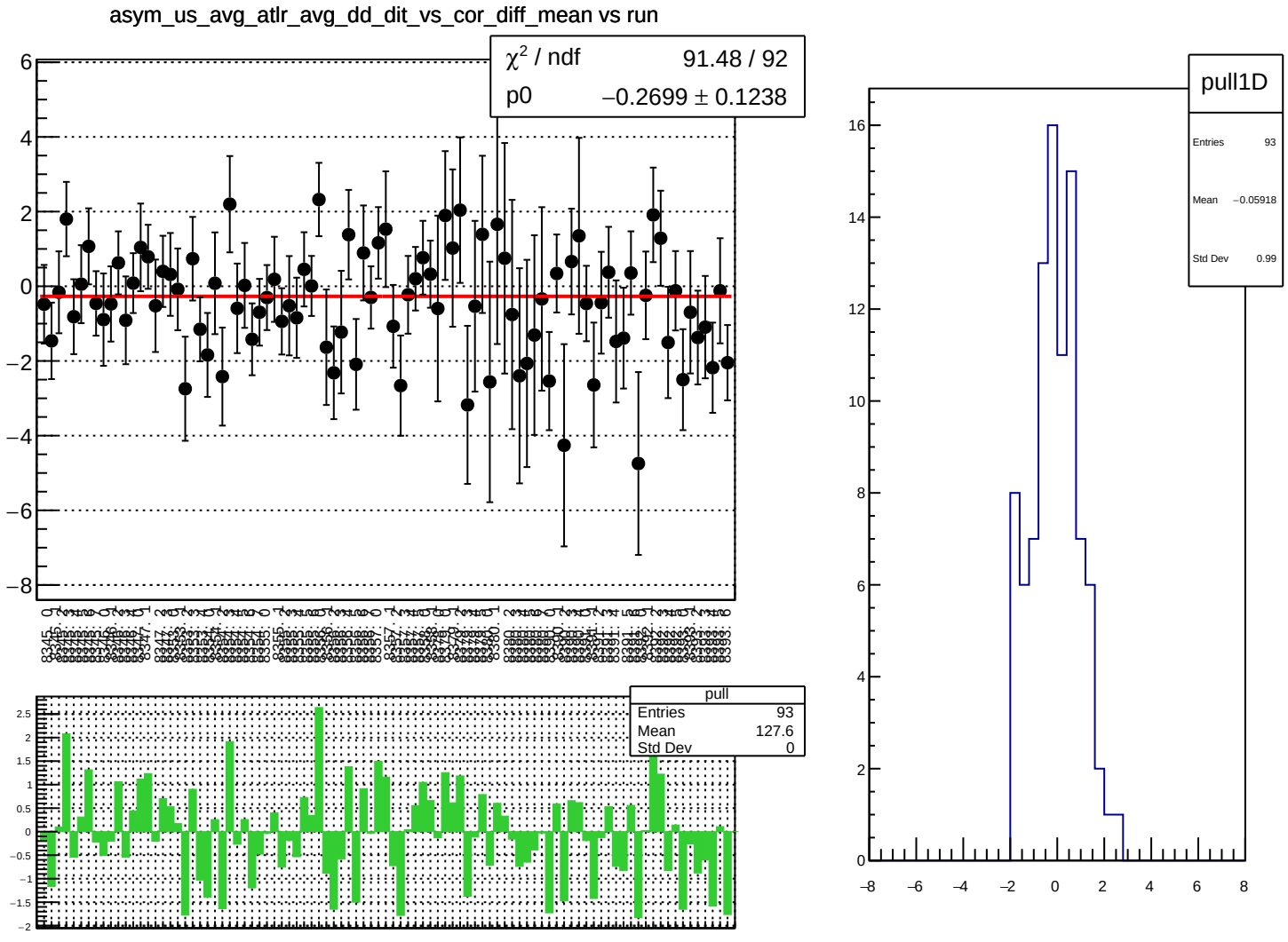

pull1D
Entries 93
Mean −0.02961
Std Dev 0.9844

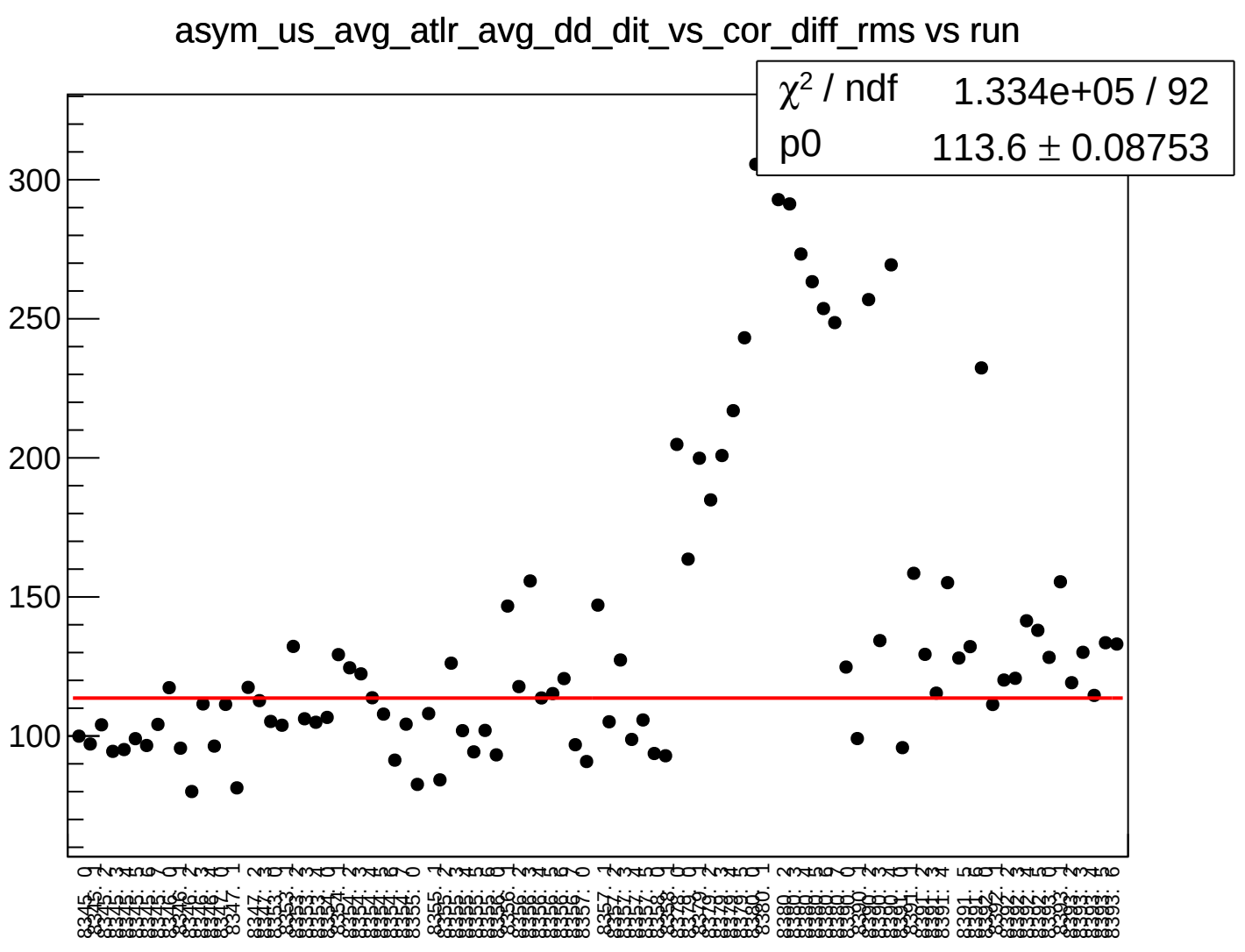

asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 1.533e+04 / 92
p0 4663 ± 3.472
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800

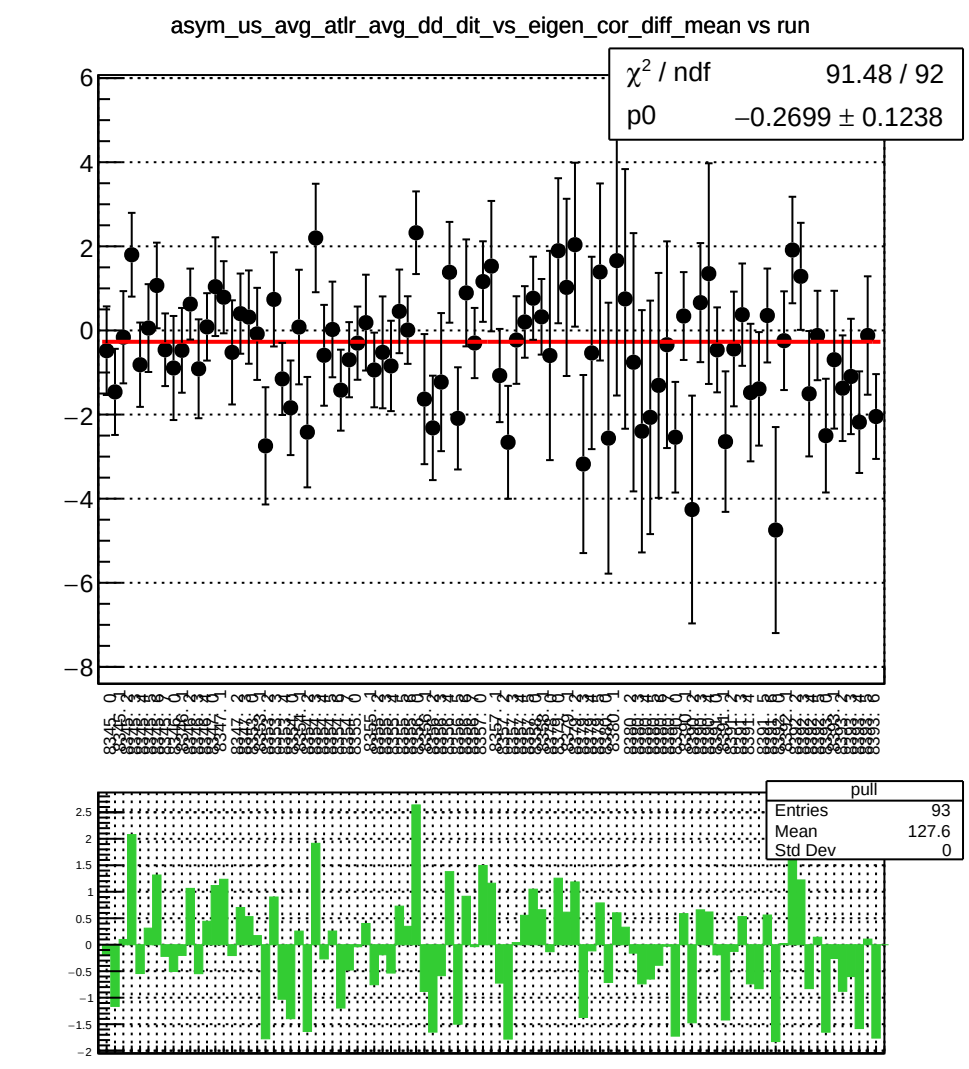

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 95.82 / 92
p0 8.529e−13 ± 6.199e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 93
Mean 47.69
Std Dev 41.56
2
1
0
−1
−2

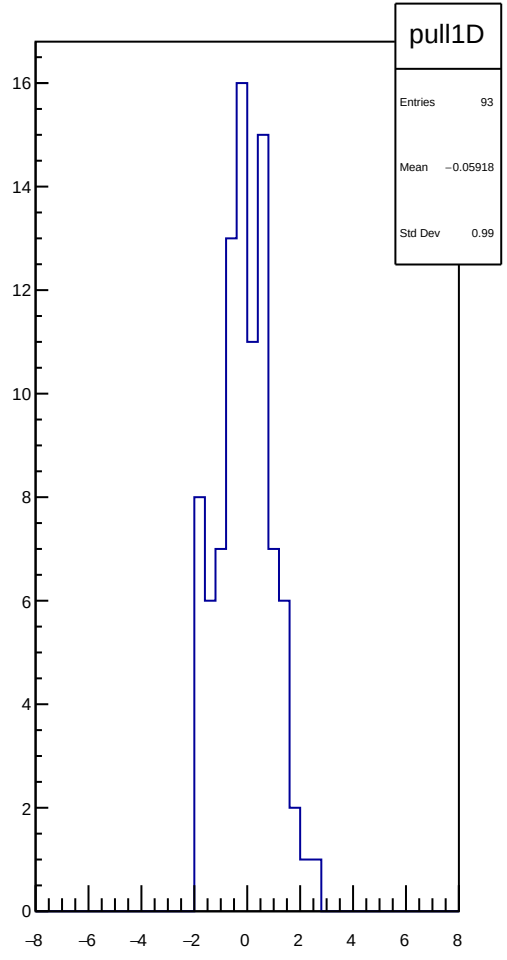

pull1D
Entries 93
Mean −0.0529
Std Dev 1.014
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

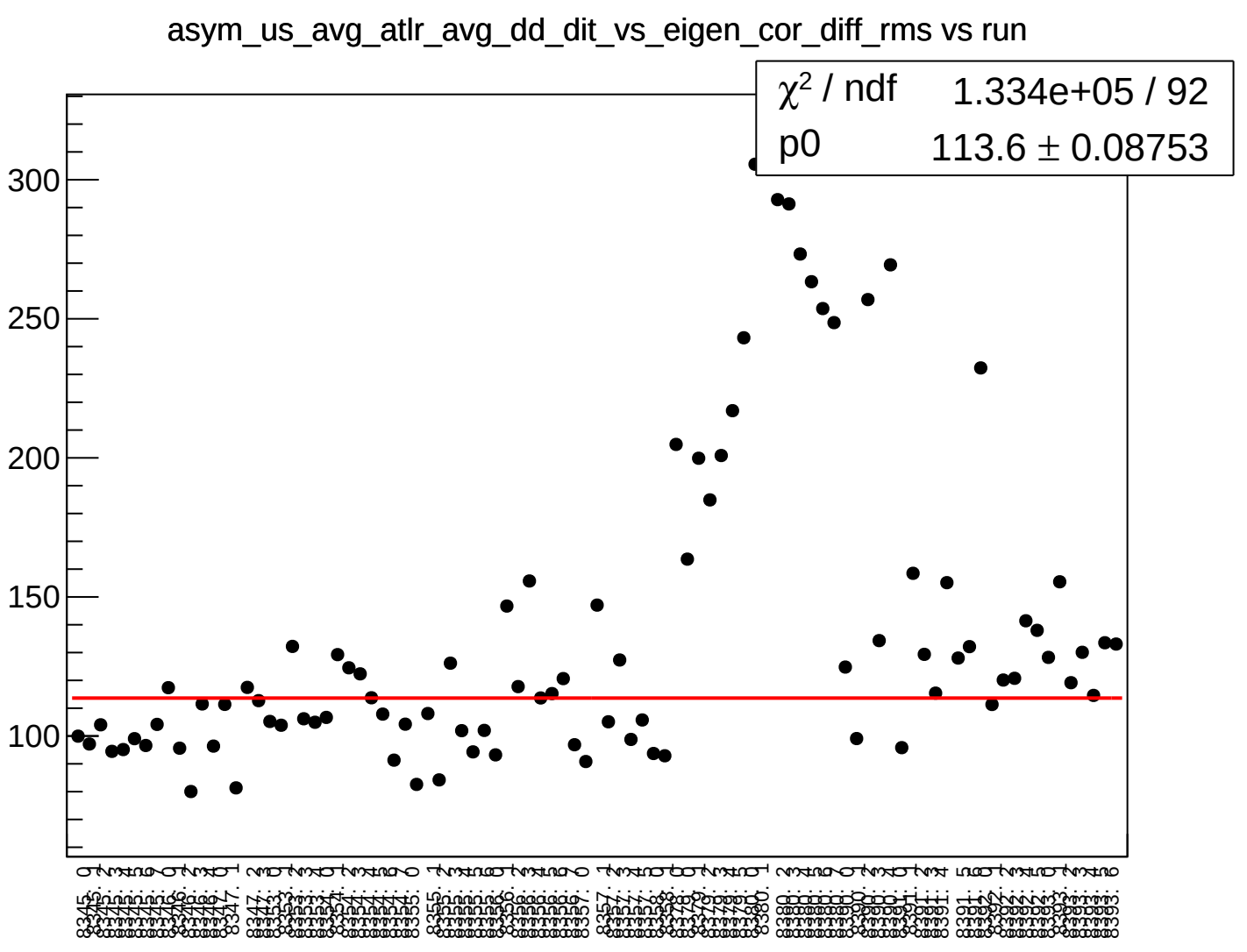

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.098e+06 / 92
p0 3.722e−10 ± 4.383e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

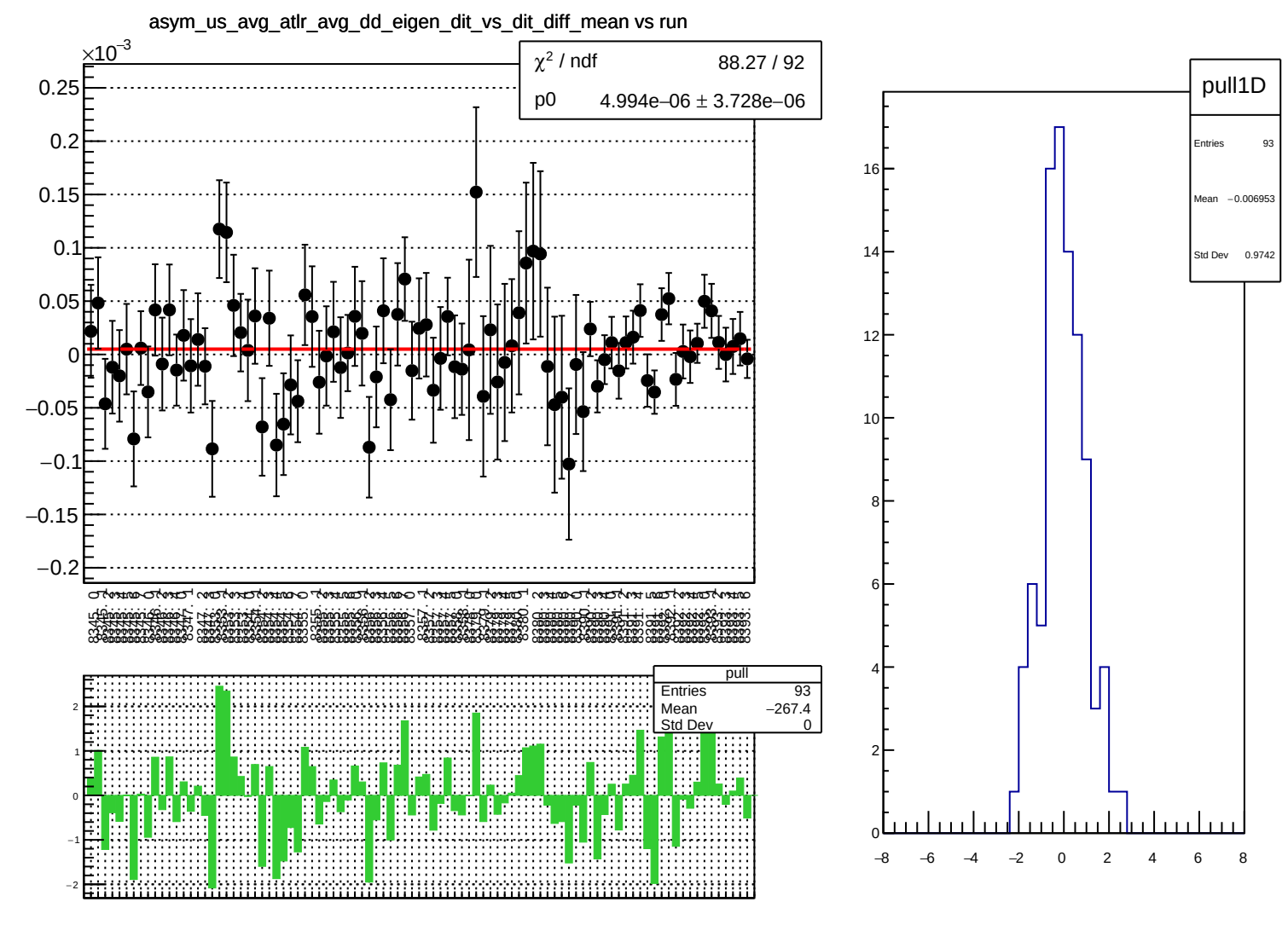

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 91.48 / 92
p0 −0.2699 ± 0.1238
pull
Entries 93
Mean 127.6
Std Dev 0
pull1D
Entries 93
Mean −0.05918
Std Dev 0.99

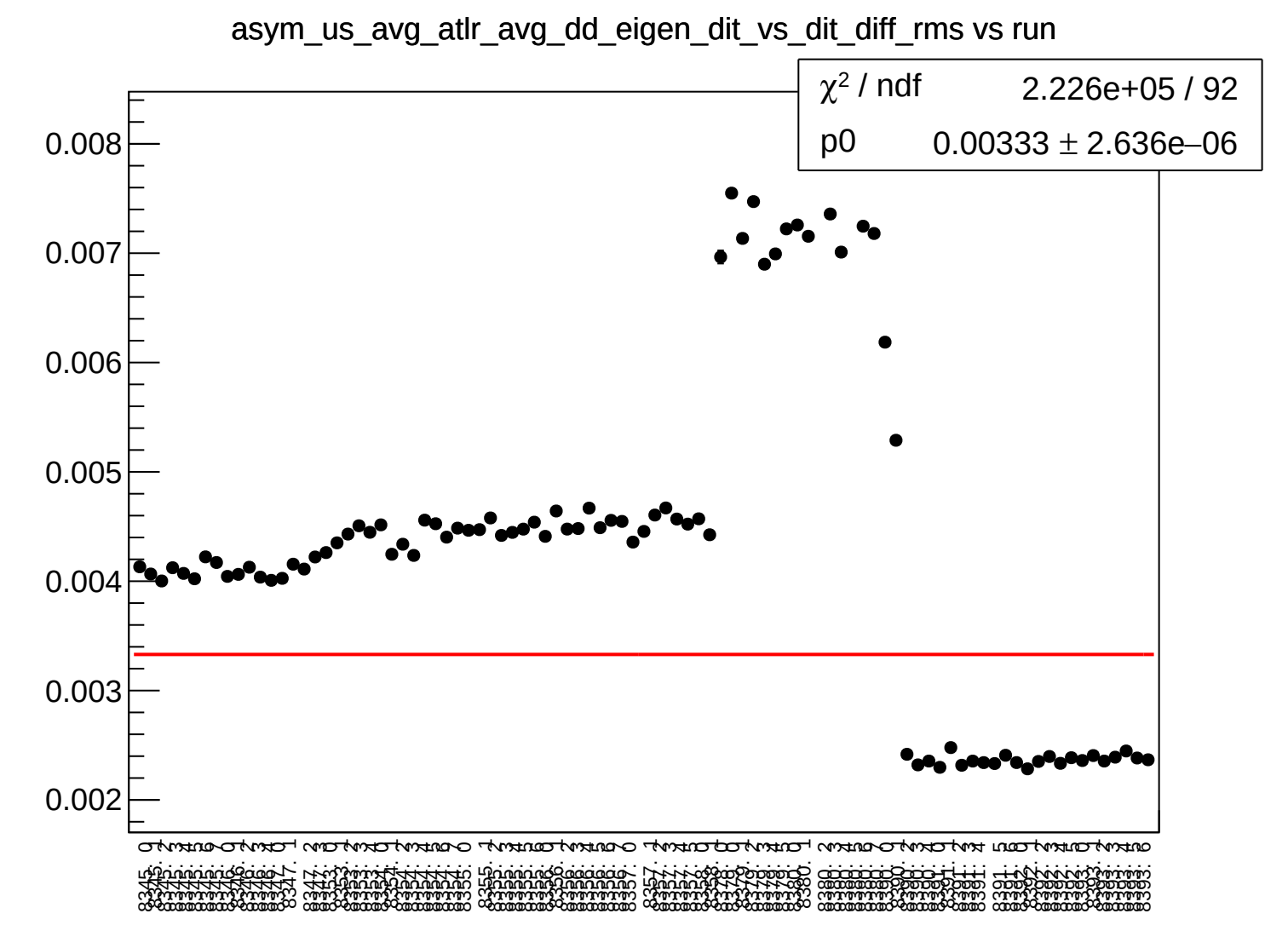

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.334e+05 / 92
p0 113.6 ± 0.08753
300
250
200
150
100

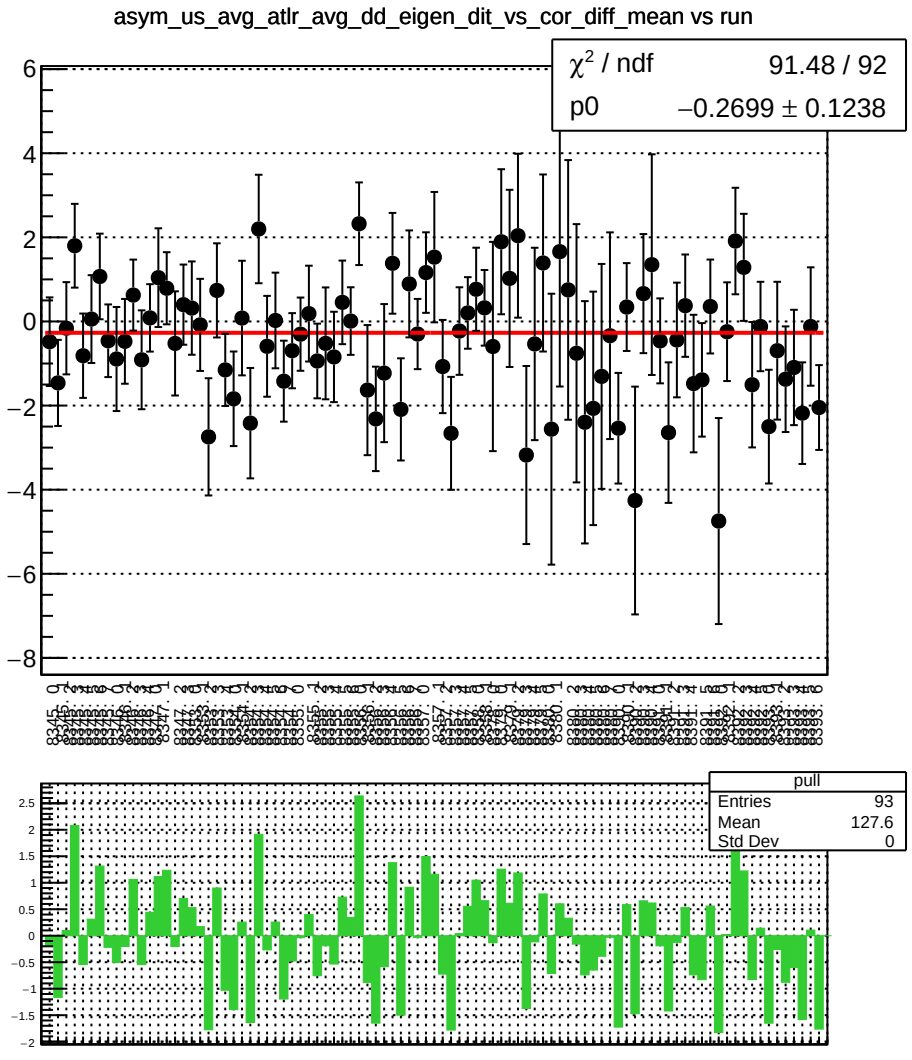

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.48 / 92
p0 −0.2699 ± 0.1238
pull
Entries 93
Mean 127.6
Std Dev 0

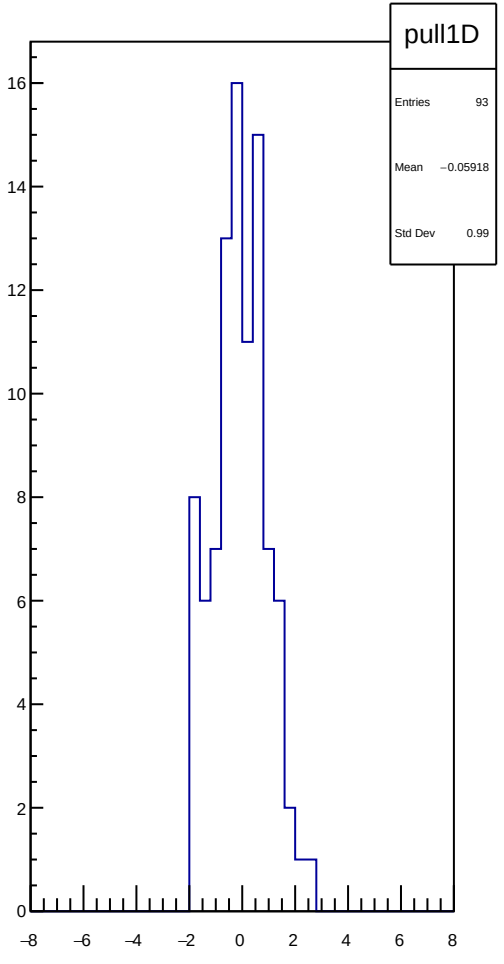

pull1D
Entries 93
Mean −0.05918
Std Dev 0.99

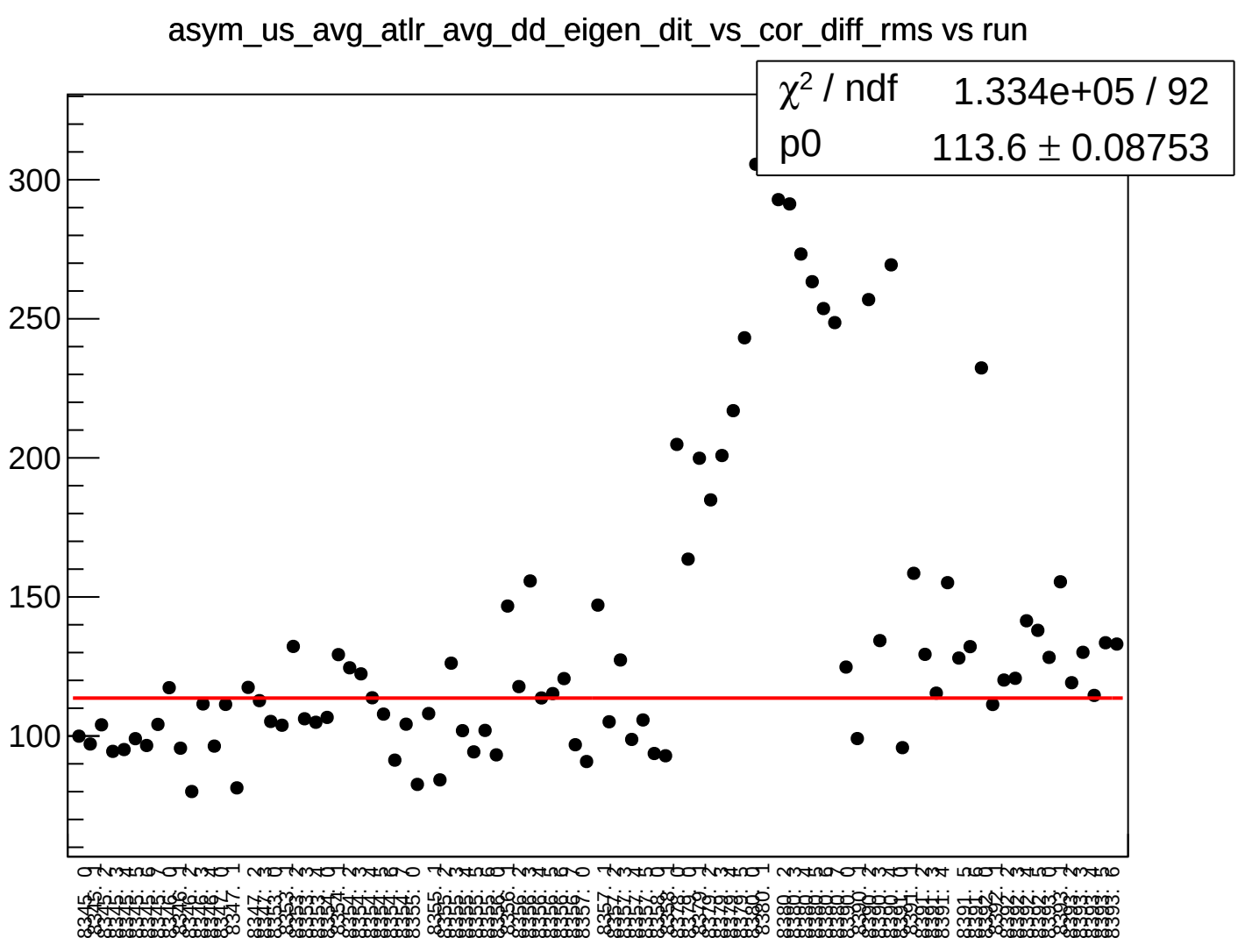

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.334e+05 / 92
p0 113.6 ± 0.08753
300
250
200
150
100

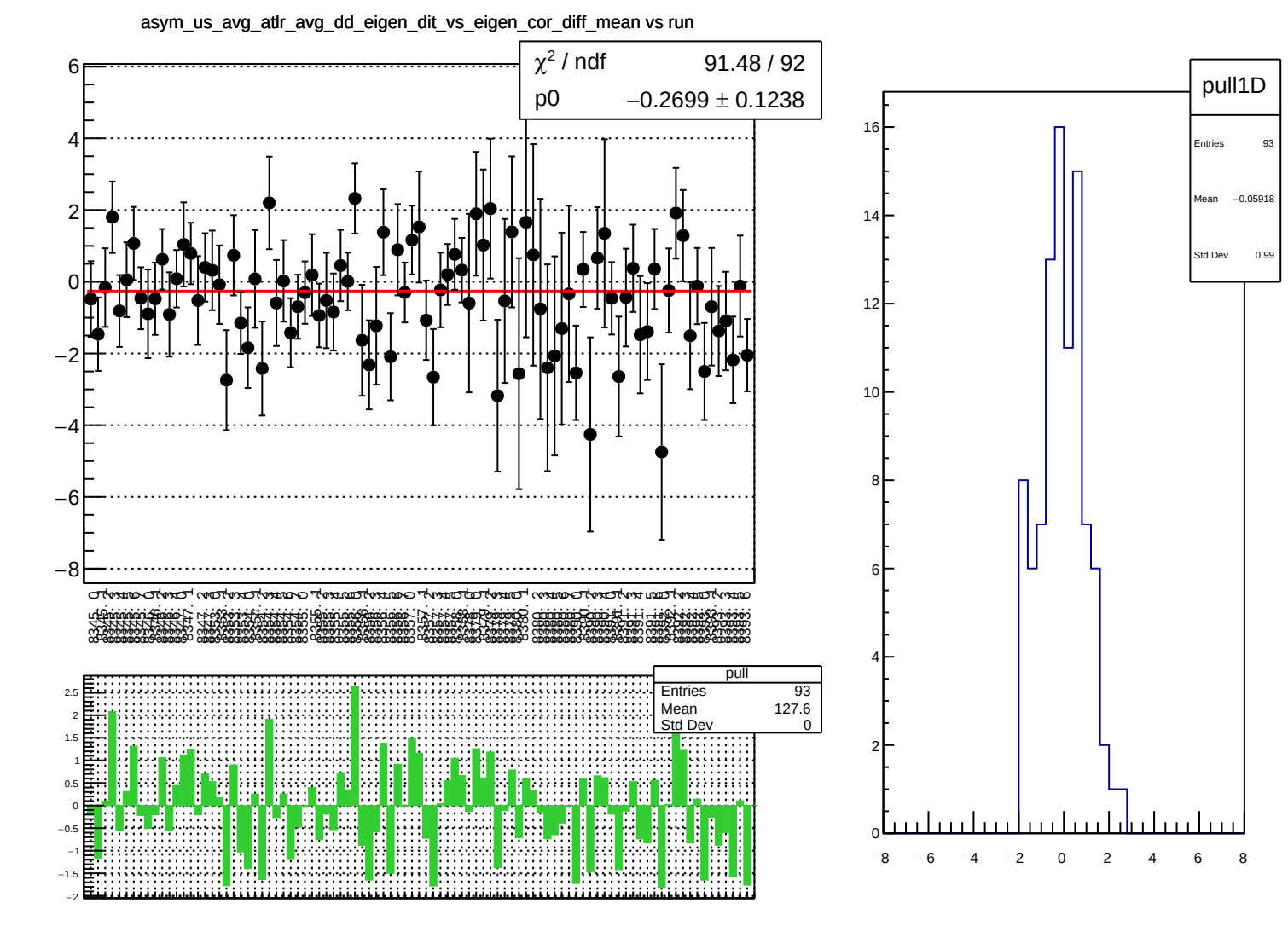

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.27 / 92
p0 4.994e−06 ± 3.728e−06
pull
Entries 93
Mean −267.4
Std Dev 0
pull1D
Entries 93
Mean −0.006953
Std Dev 0.9742

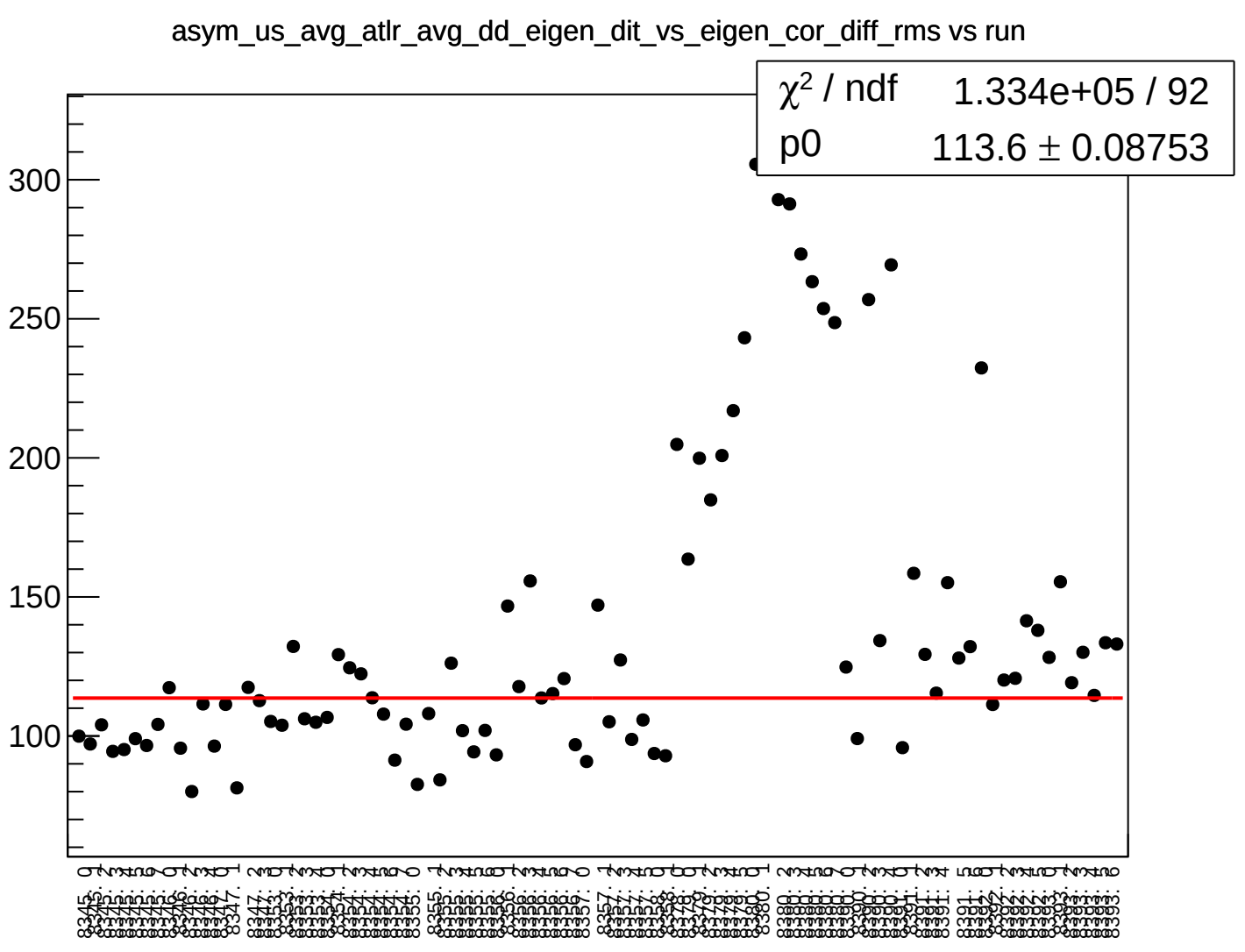

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.226e+05 / 92
p0 0.00333 ± 2.636e–06
0.008
0.007
0.006
0.005
0.004
0.003
0.002

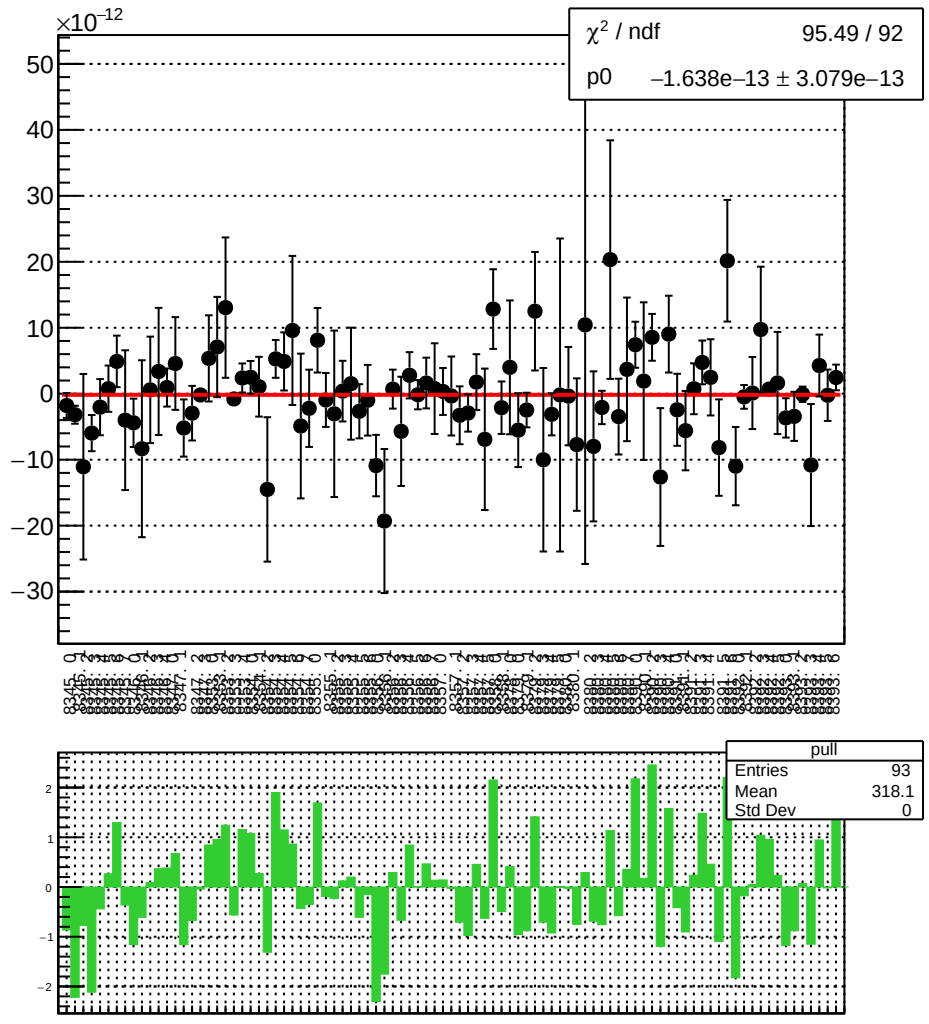

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.48 / 92
p0 −0.2699 ± 0.1238
pull
Entries 93
Mean 127.6
Std Dev 0

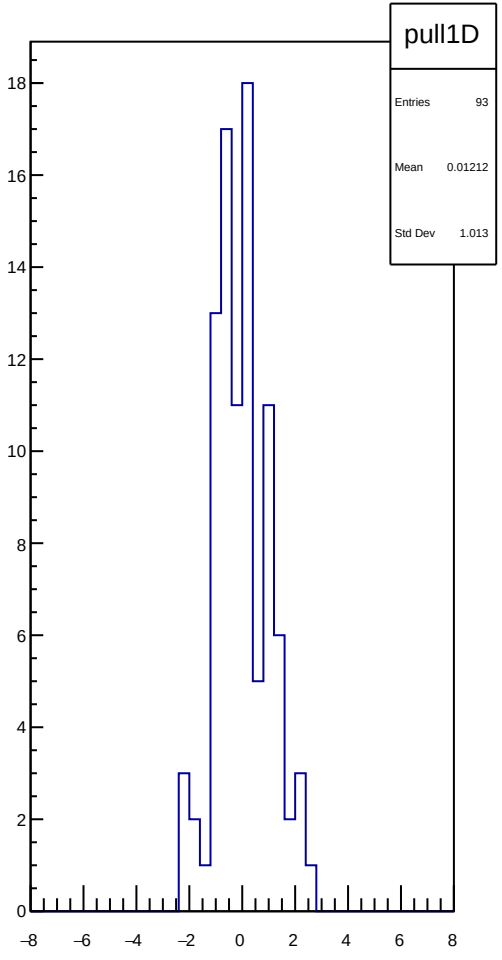

pull1D
Entries 93
Mean −0.05918
Std Dev 0.99

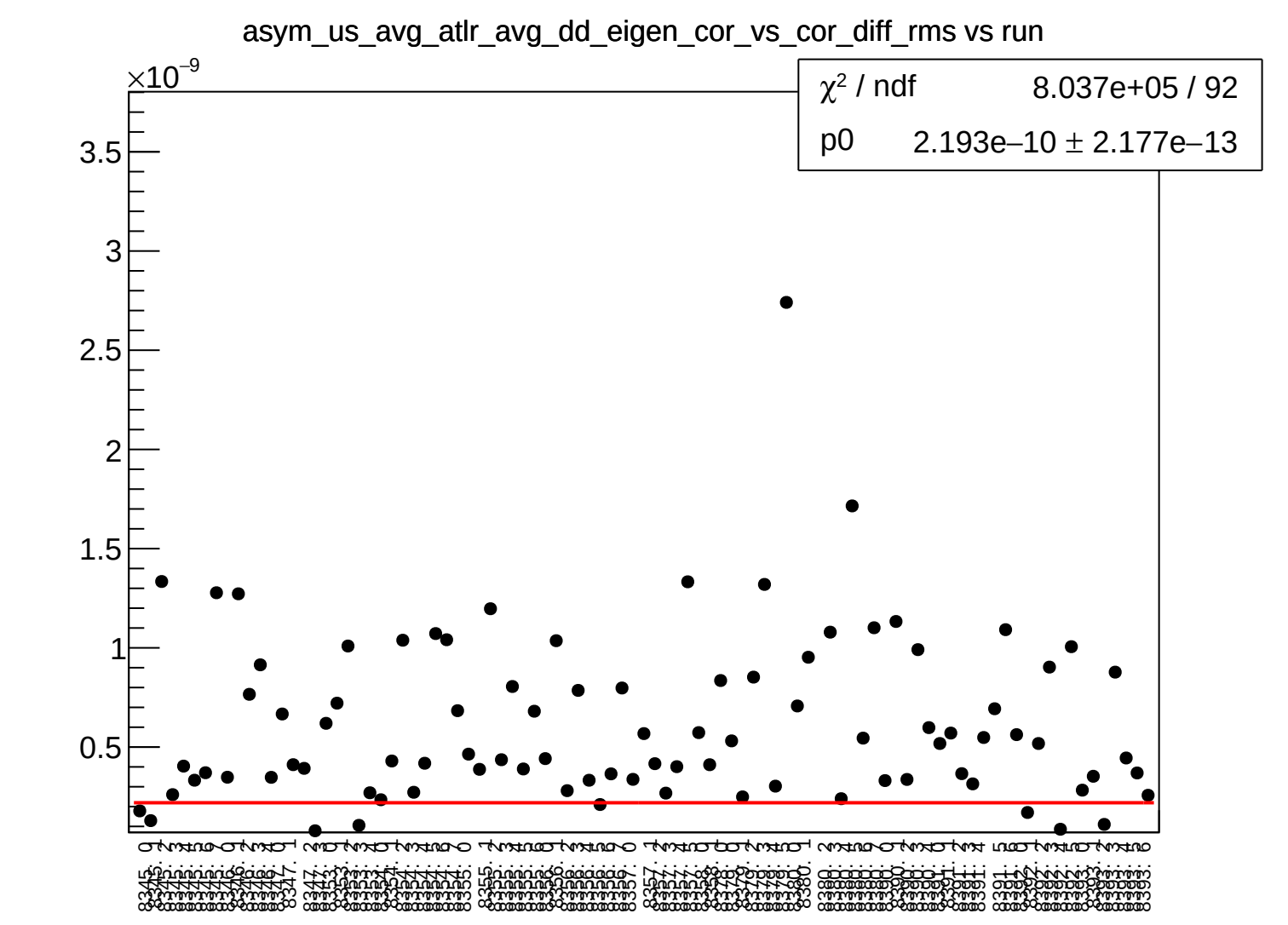

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.334e+05 / 92
p0 113.6 ± 0.08753
300
250
200
150
100

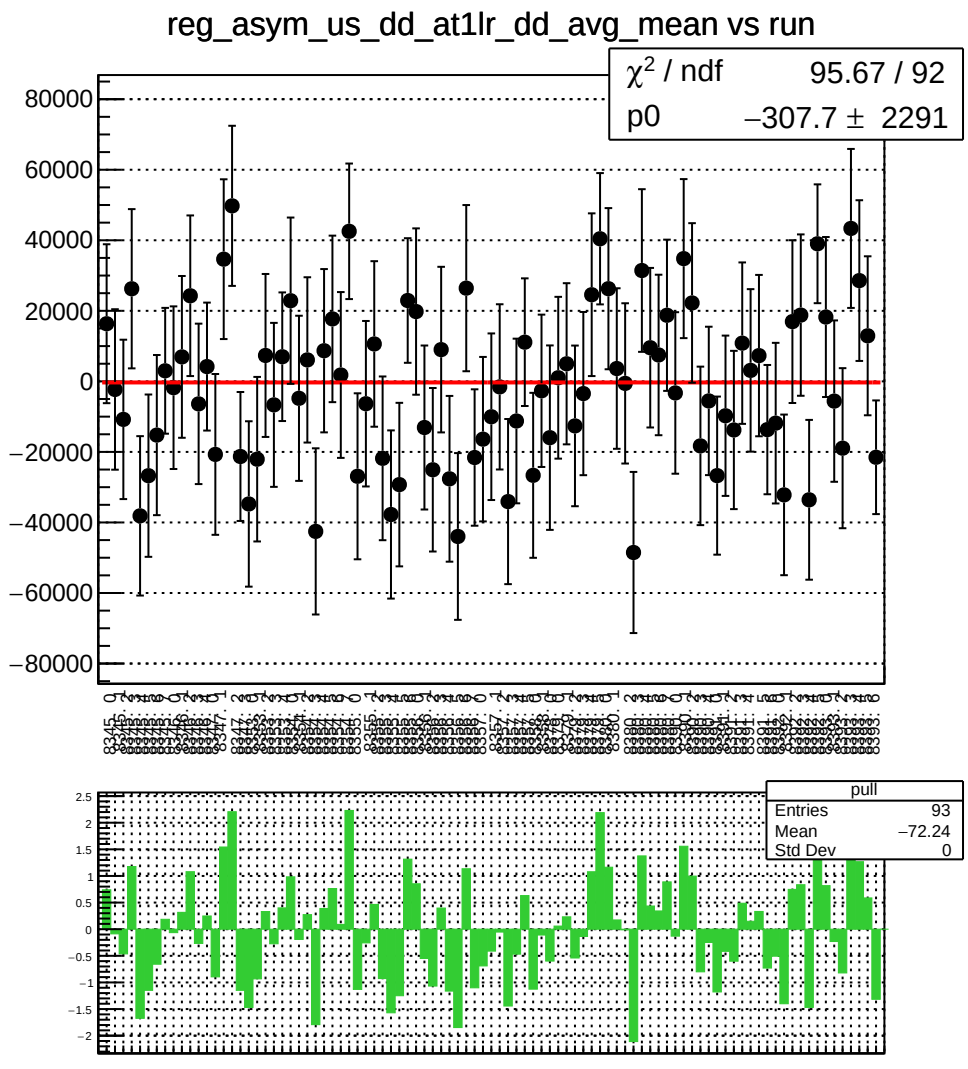

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.48 / 92
p0 −0.2699 ± 0.1238
pull
Entries 93
Mean 127.6
Std Dev 0
pull1D
Entries 93
Mean −0.05918
Std Dev 0.99

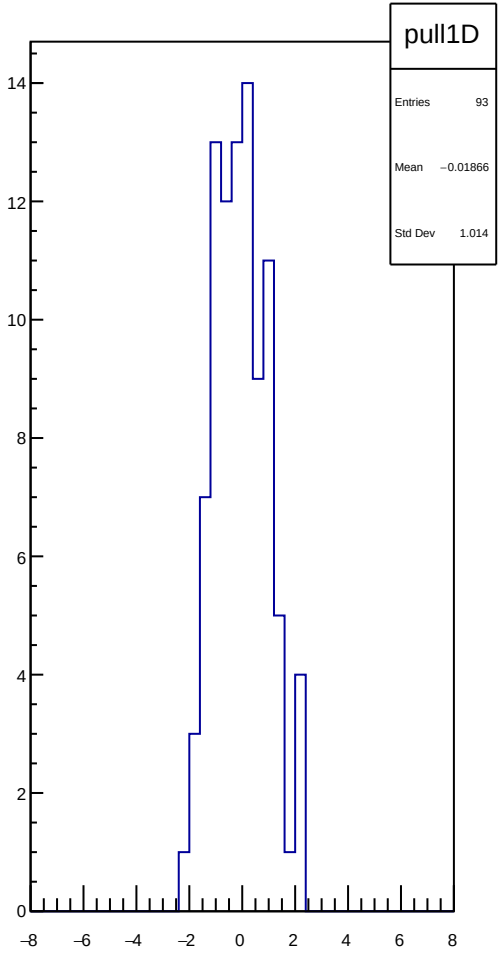

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.334e+05 / 92
p0 113.6 ± 0.08753
300
250
200
150
100

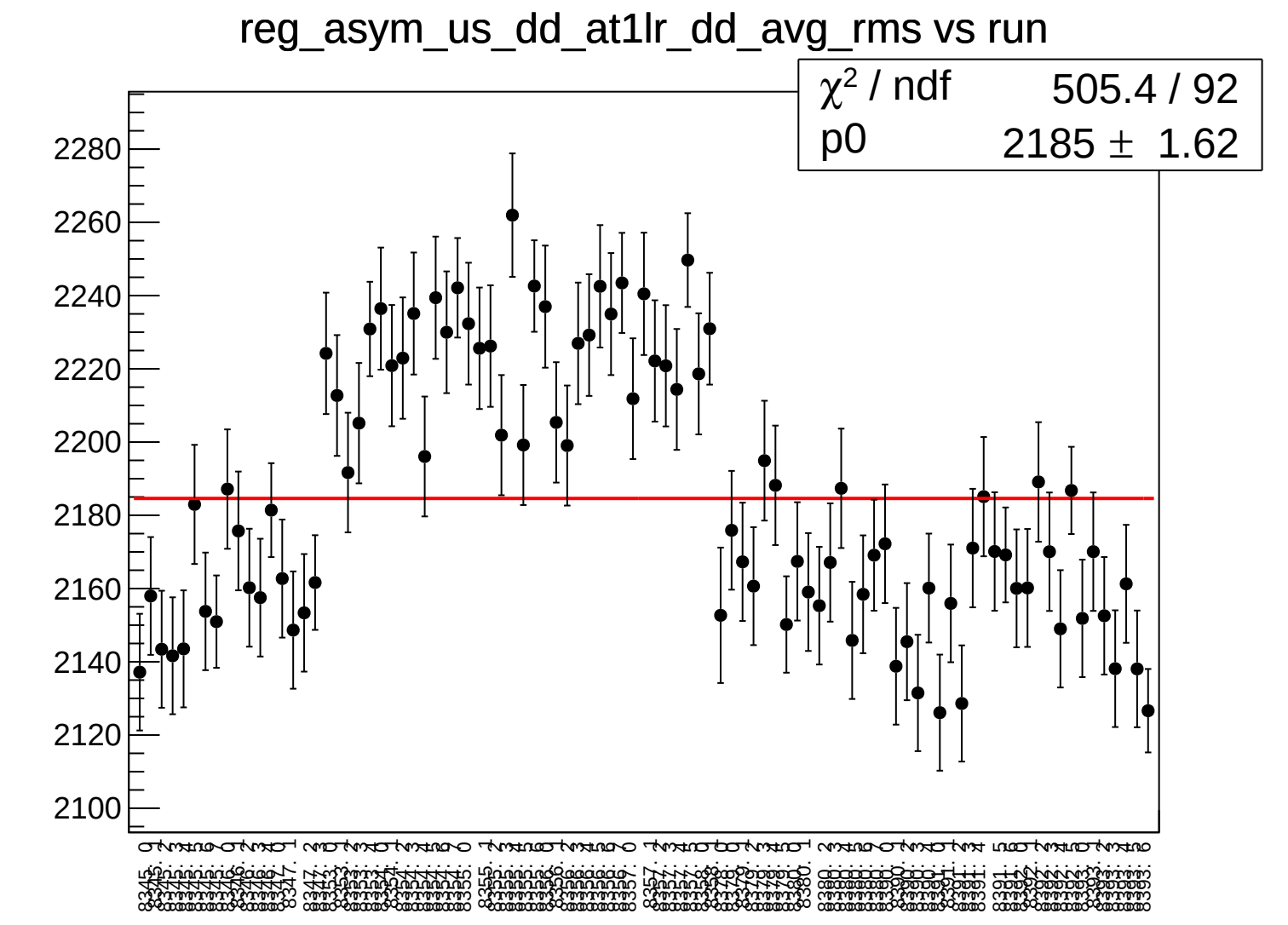

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.49 / 92
p0 −1.638e−13 ± 3.079e−13
pull
Entries 93
Mean 318.1
Std Dev 0

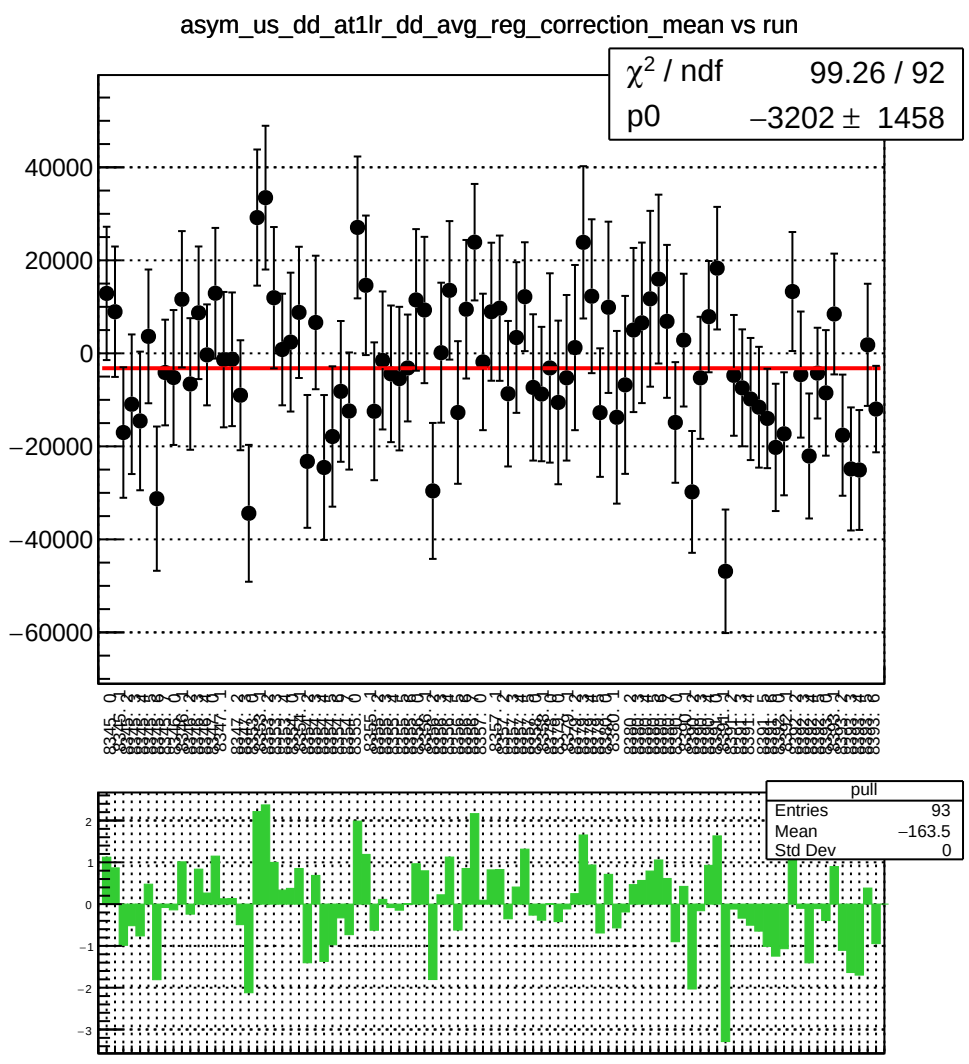

pull1D
Entries 93
Mean 0.01212
Std Dev 1.013

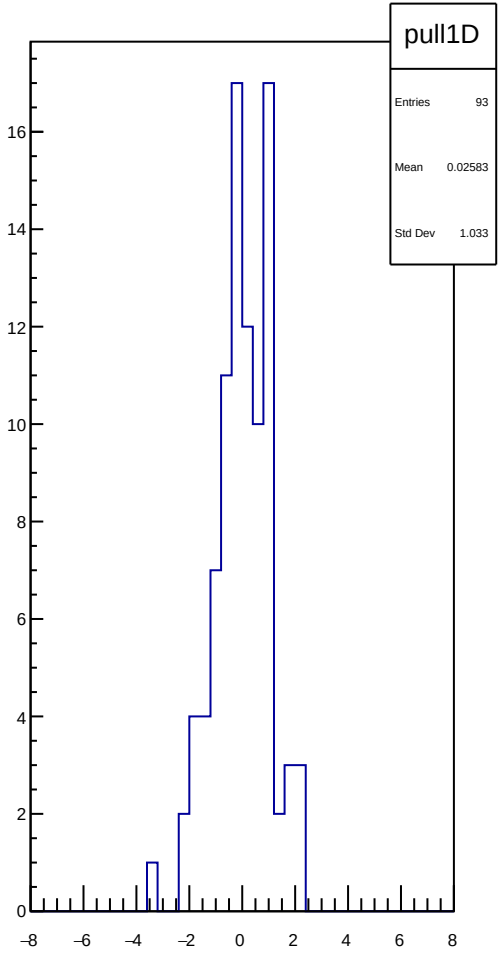

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.037e+05 / 92
p0 2.193e−10 ± 2.177e−13
3.5
3
2.5
2
1.5
1
0.5

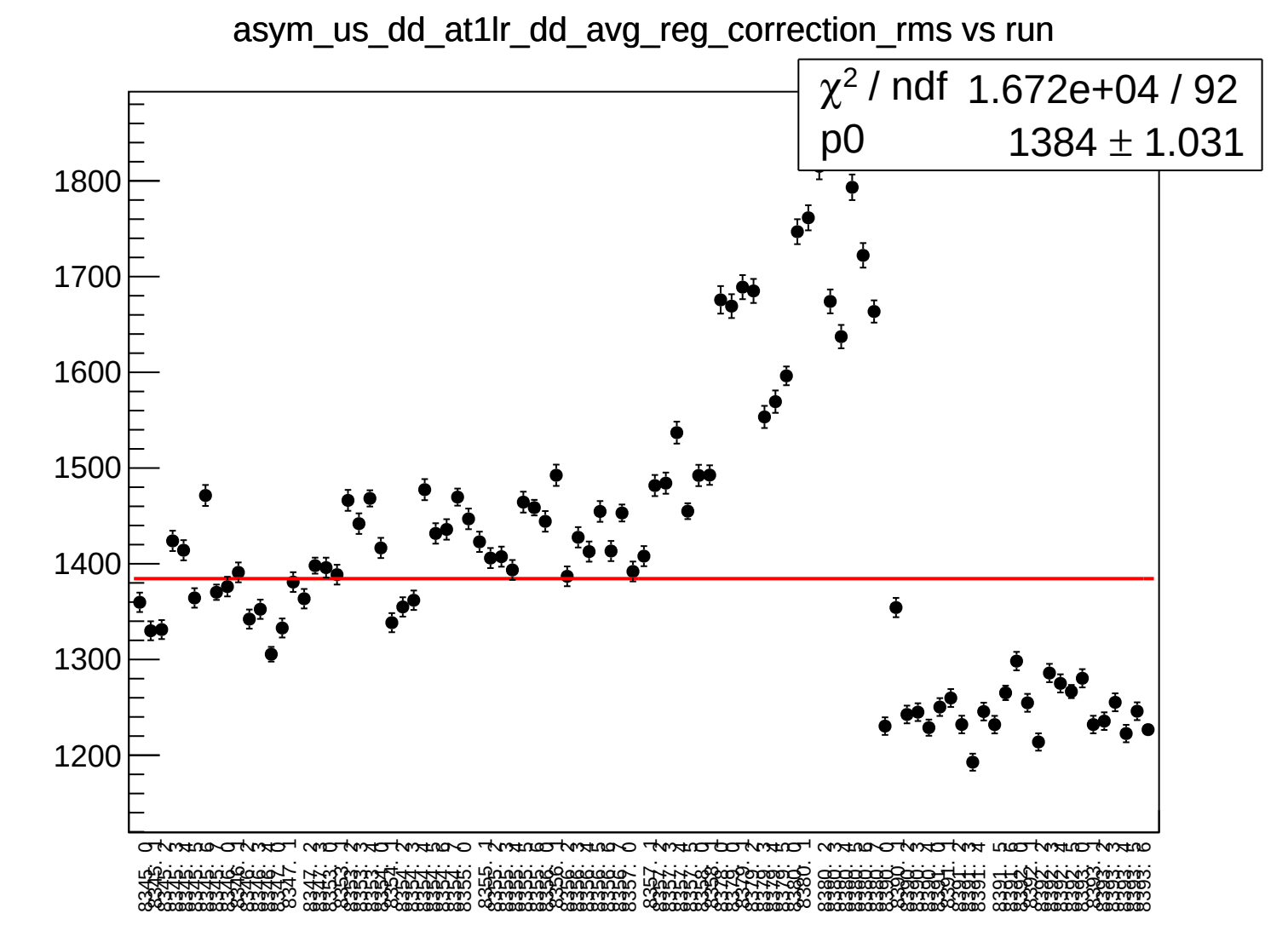

reg_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 95.67 / 92
p0 −307.7 ± 2291
pull
Entries 93
Mean −72.24
Std Dev 0

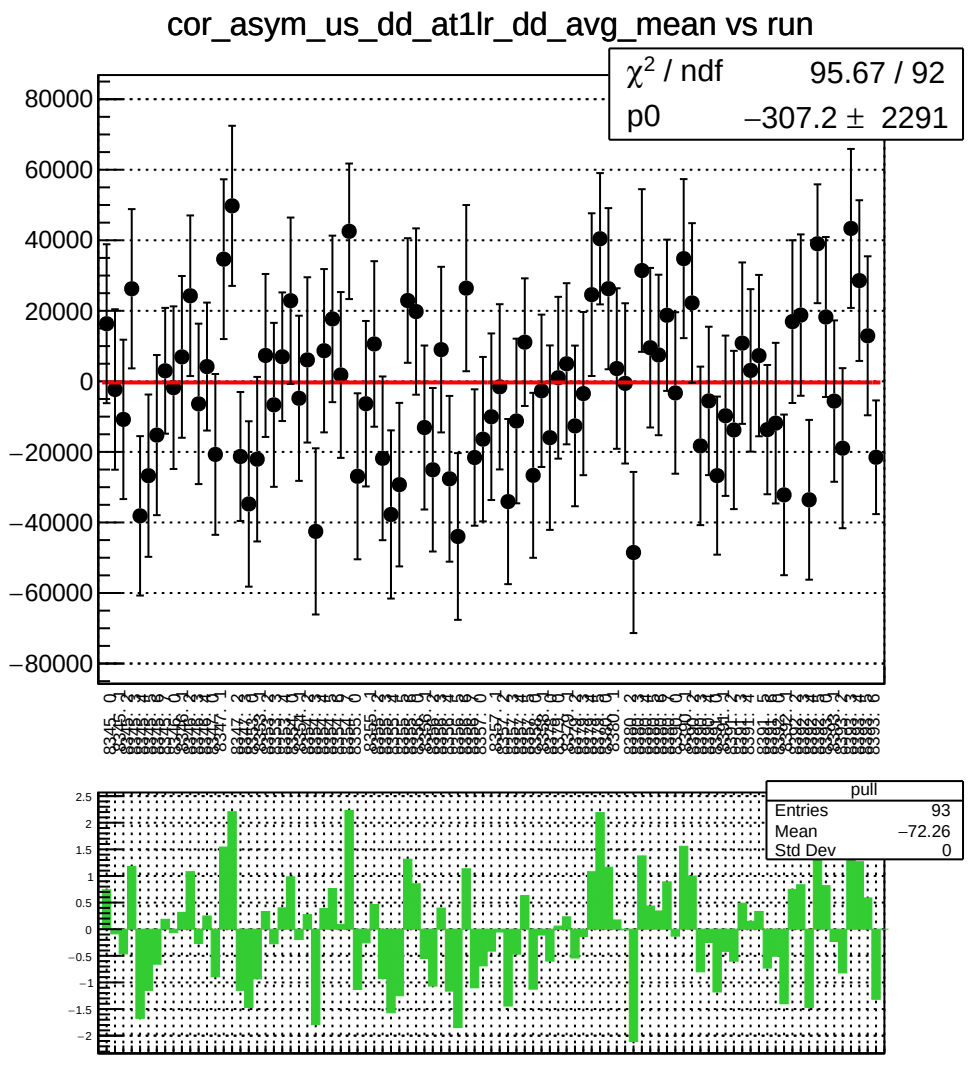

pull1D
Entries 93
Mean −0.01866
Std Dev 1.014

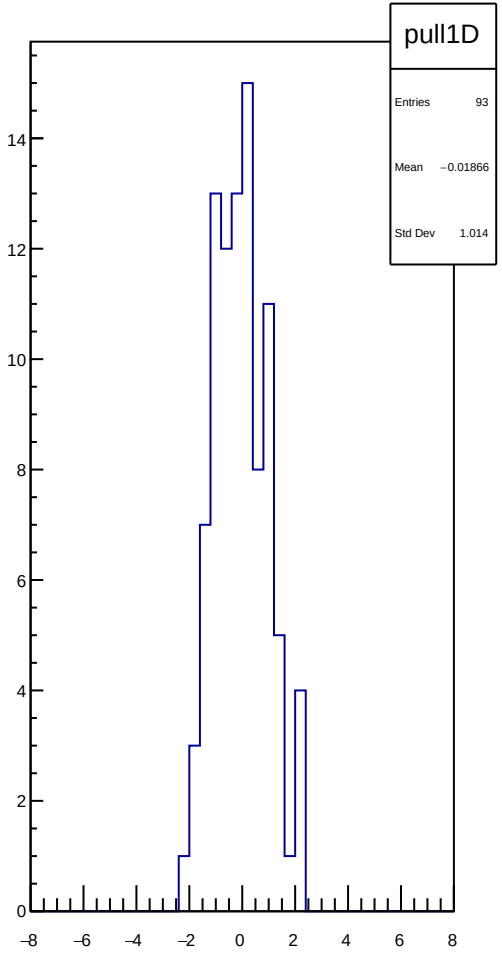

reg_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 505.4 / 92
p0 2185 ± 1.62
2280
2260
2240
2220
2200
2180
2160
2140
2120
2100

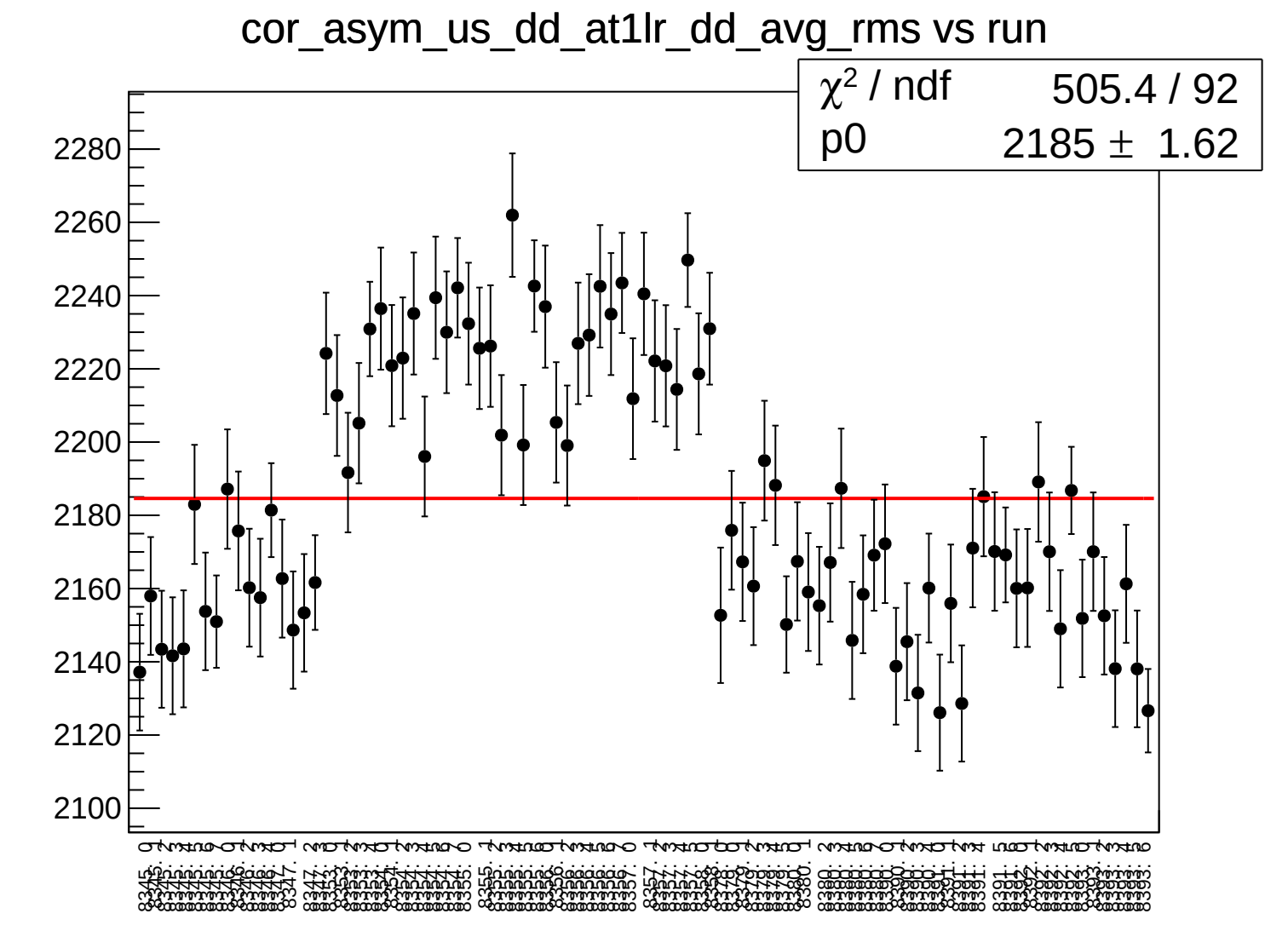

asym_us_dd_at1lr_dd_avg_reg_correction_mean vs run
χ² / ndf 99.26 / 92
p0 −3202 ± 1458
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −163.5
Std Dev 0
2
1
0
−1
−2
−3

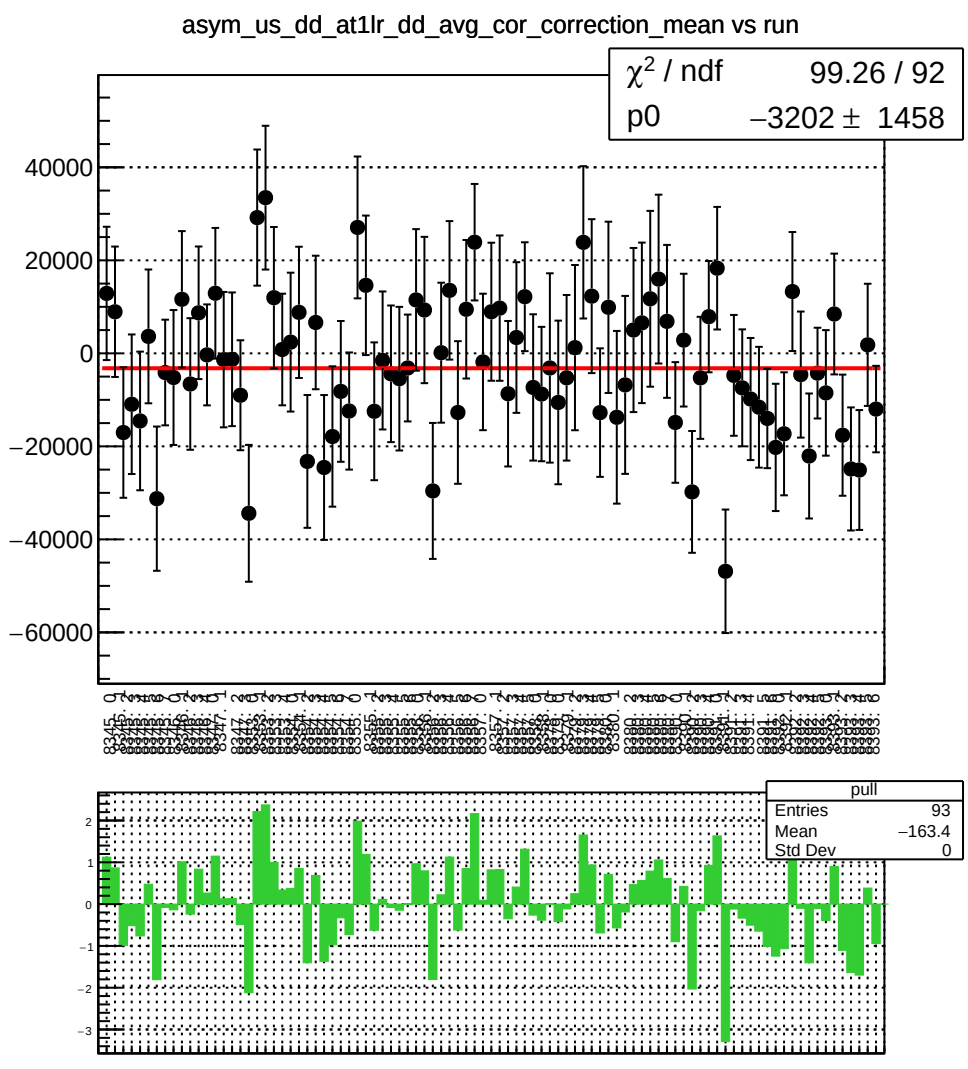

pull1D
Entries 93
Mean 0.02583
Std Dev 1.033
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

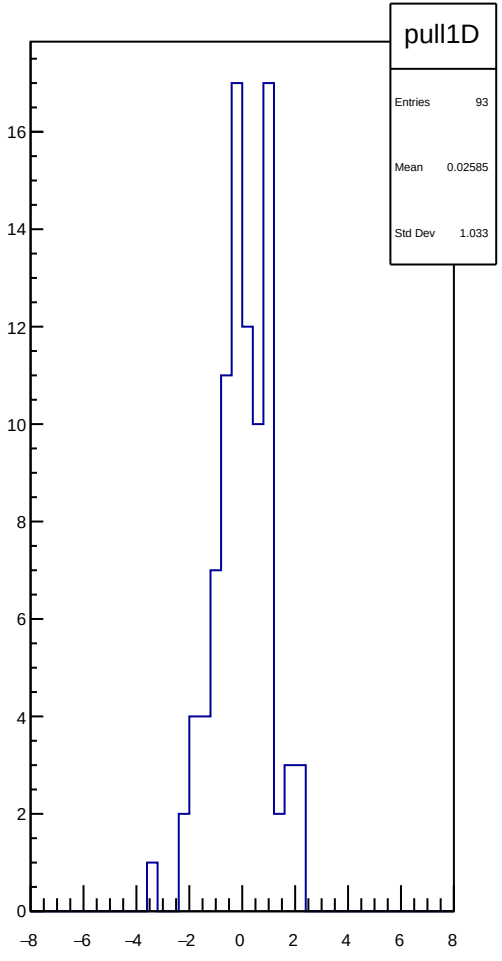

asym_us_dd_at1lr_dd_avg_reg_correction_rms vs run
χ² / ndf 1.672e+04 / 92
p0 1384 ± 1.031
1800
1700
1600
1500
1400
1300
1200

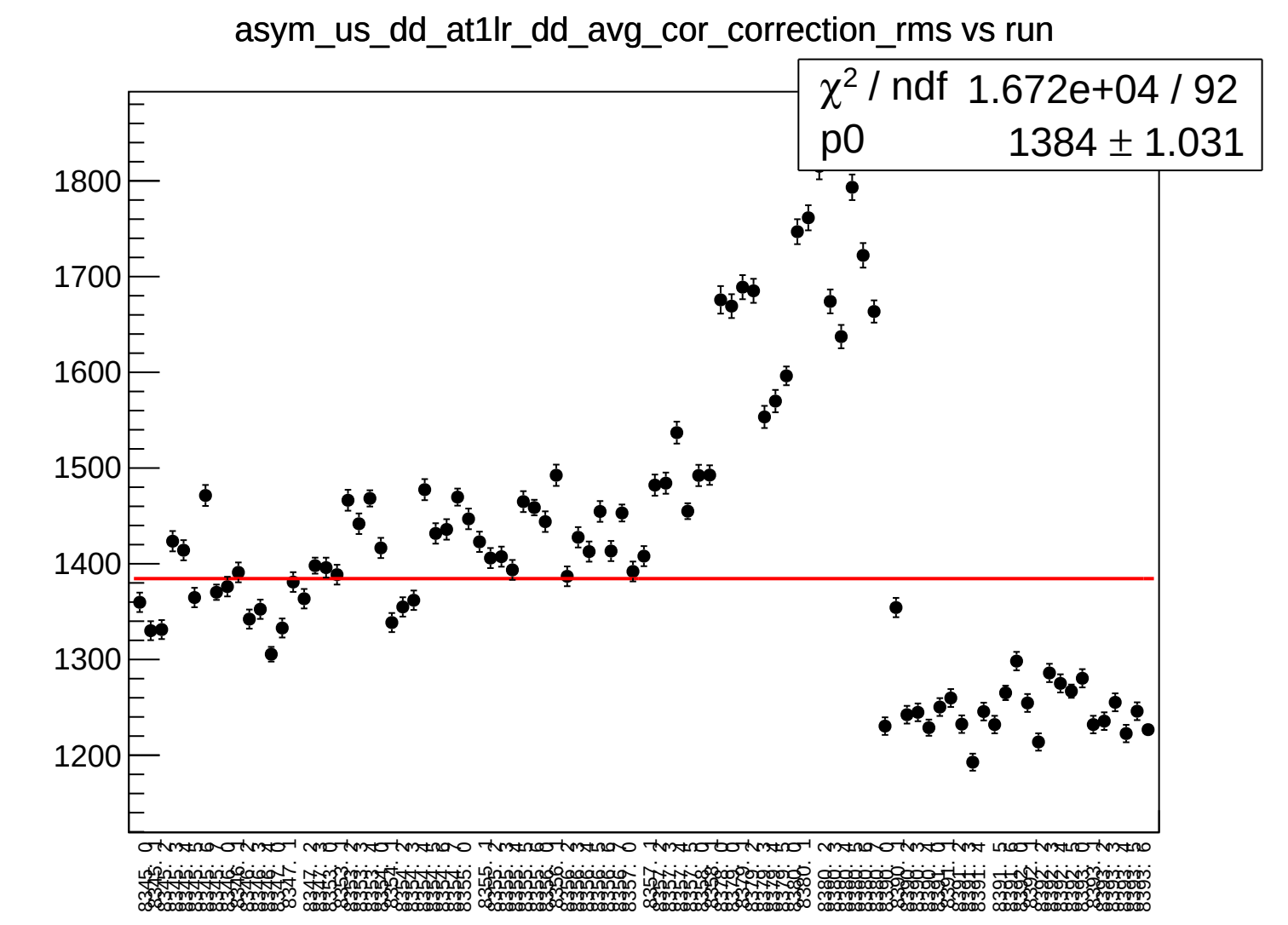

cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 95.67 / 92
p0 −307.2 ± 2291
pull
Entries 93
Mean −72.26
Std Dev 0

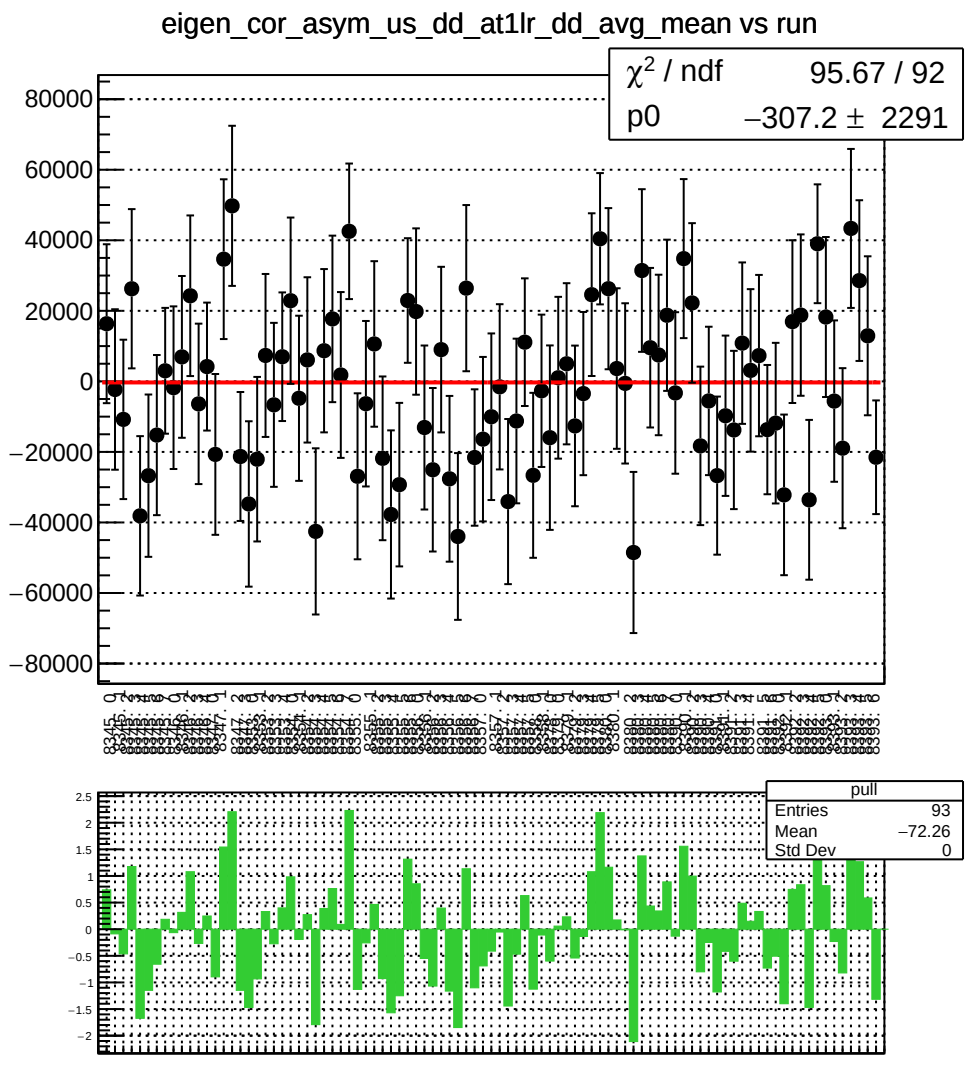

pull1D
Entries 93
Mean −0.01866
Std Dev 1.014

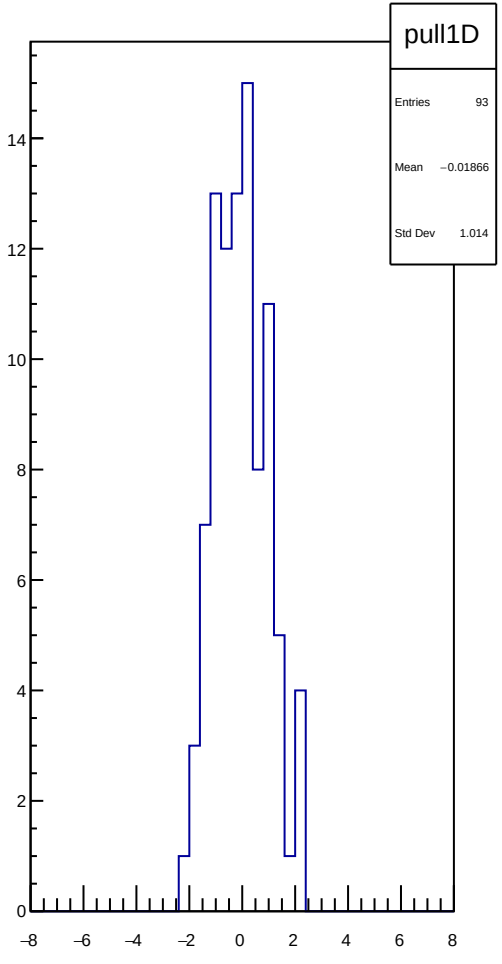

cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 505.4 / 92
p0 2185 ± 1.62
2280
2260
2240
2220
2200
2180
2160
2140
2120
2100

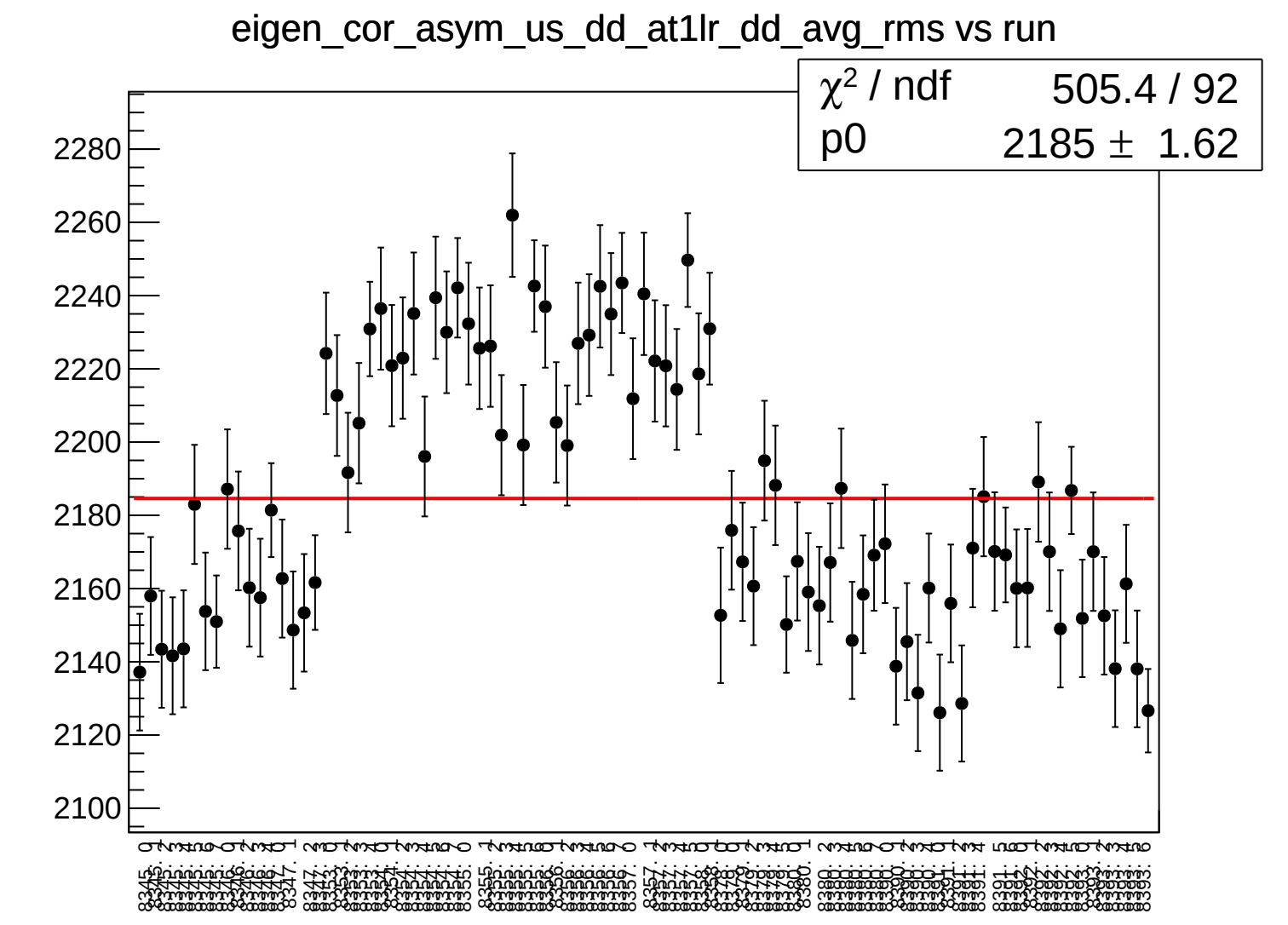

asym_us_dd_at1lr_dd_avg_cor_correction_mean vs run
χ² / ndf 99.26 / 92
p0 −3202 ± 1458
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −163.4
Std Dev 0
2
1
0
−1
−2
−3

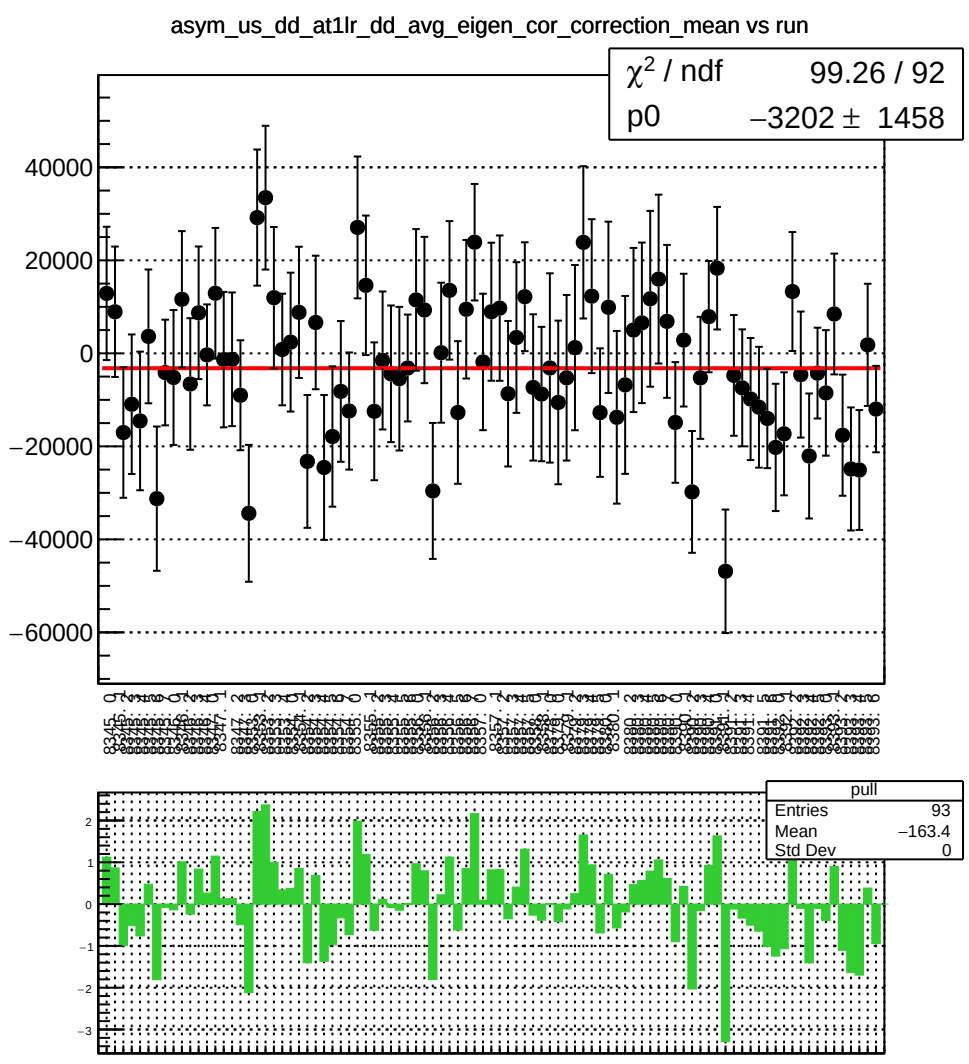

pull1D
Entries 93
Mean 0.02585
Std Dev 1.033
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

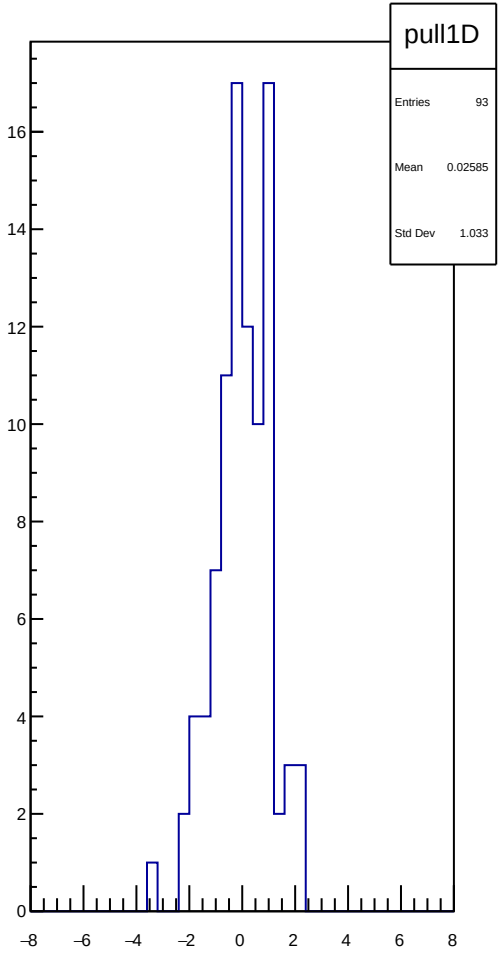

asym_us_dd_at1lr_dd_avg_cor_correction_rms vs run
χ² / ndf 1.672e+04 / 92
p0 1384 ± 1.031
1800
1700
1600
1500
1400
1300
1200

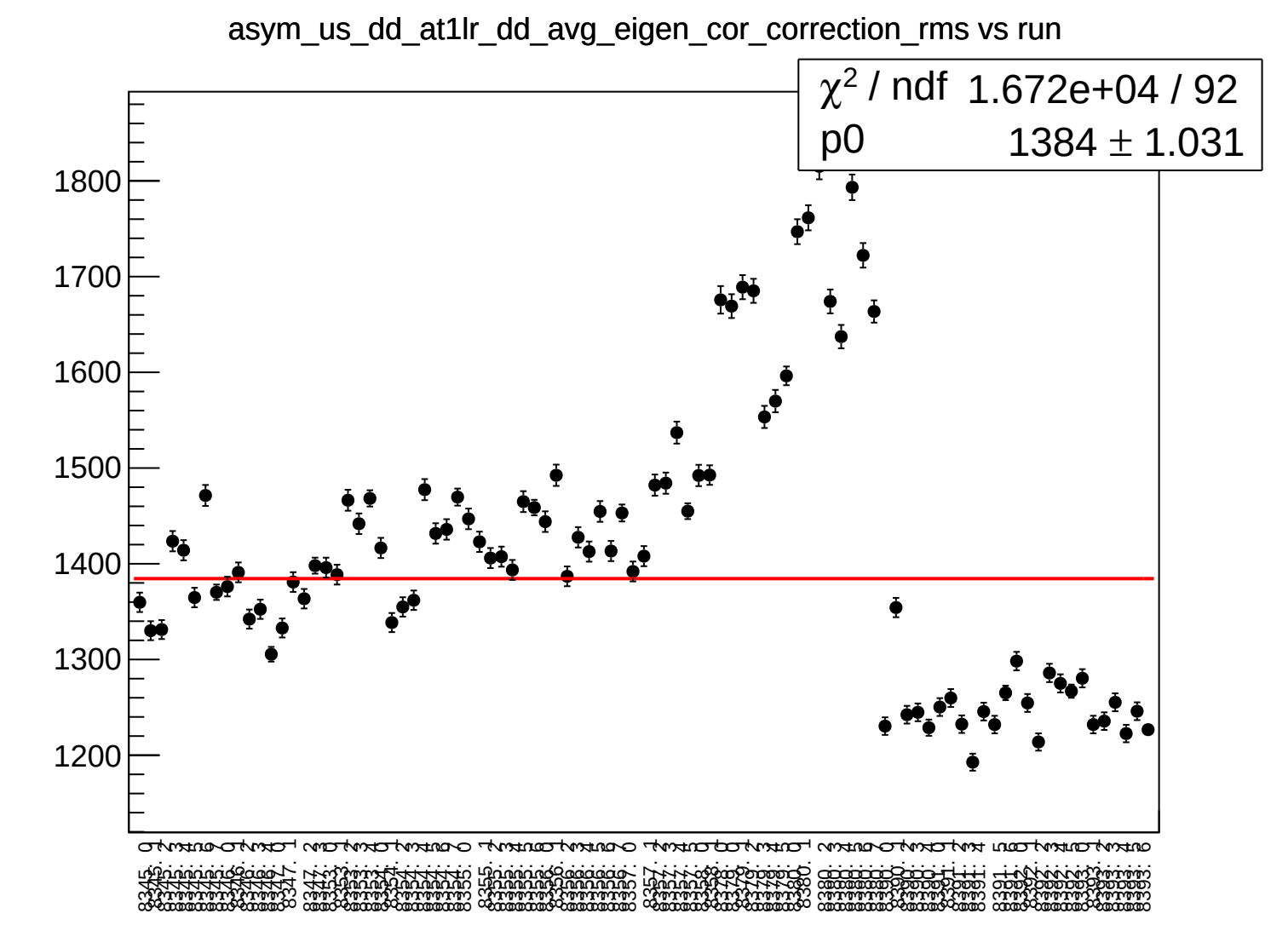

eigen_cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 95.67 / 92
p0 −307.2 ± 2291
pull
Entries 93
Mean −72.26
Std Dev 0

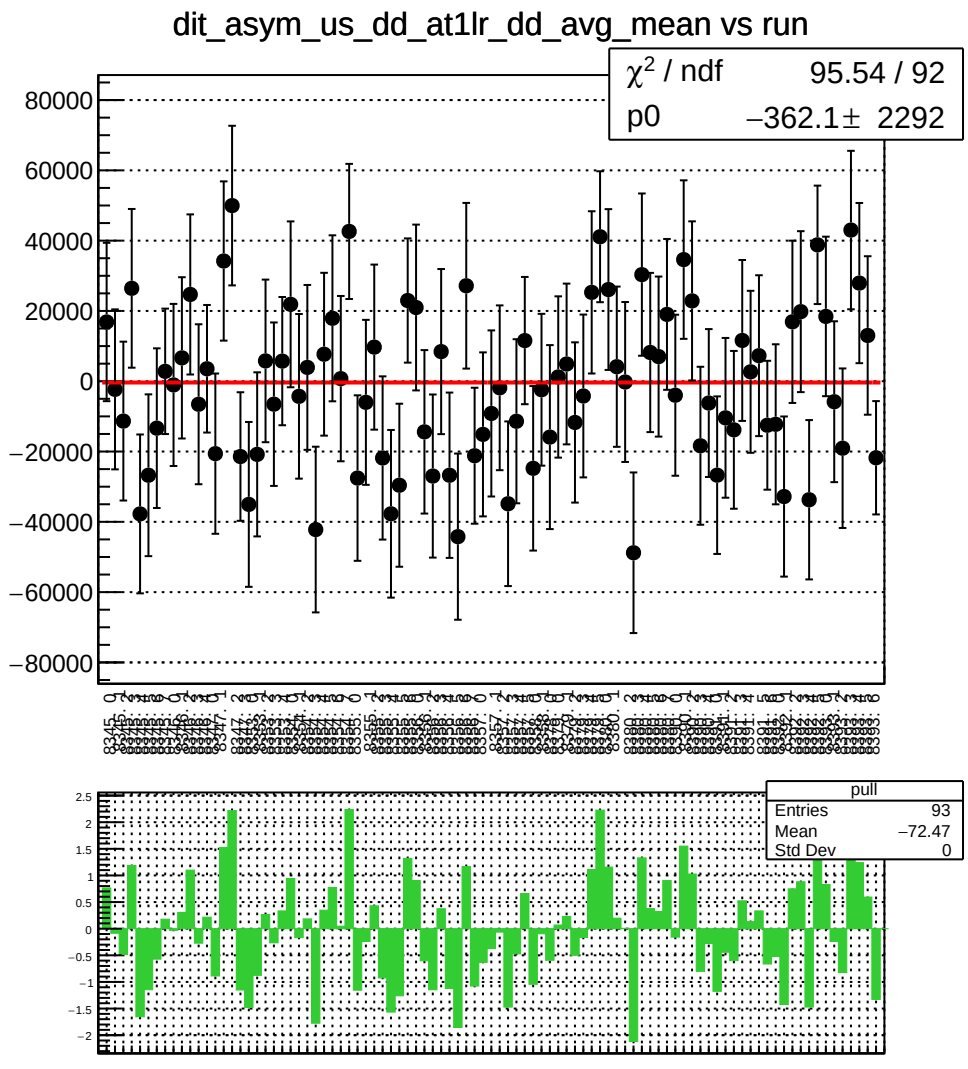

pull1D
Entries 93
Mean −0.01866
Std Dev 1.014

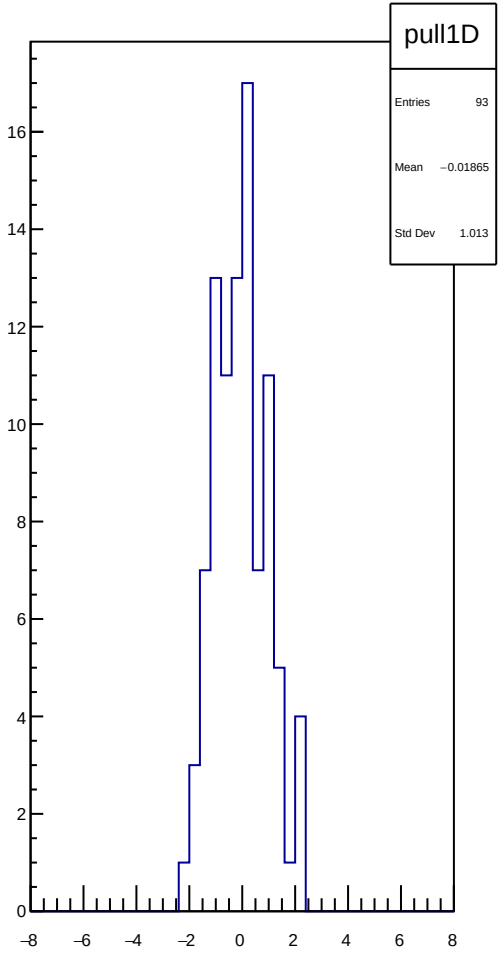

eigen_cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 505.4 / 92
p0 2185 ± 1.62
2280
2260
2240
2220
2200
2180
2160
2140
2120
2100

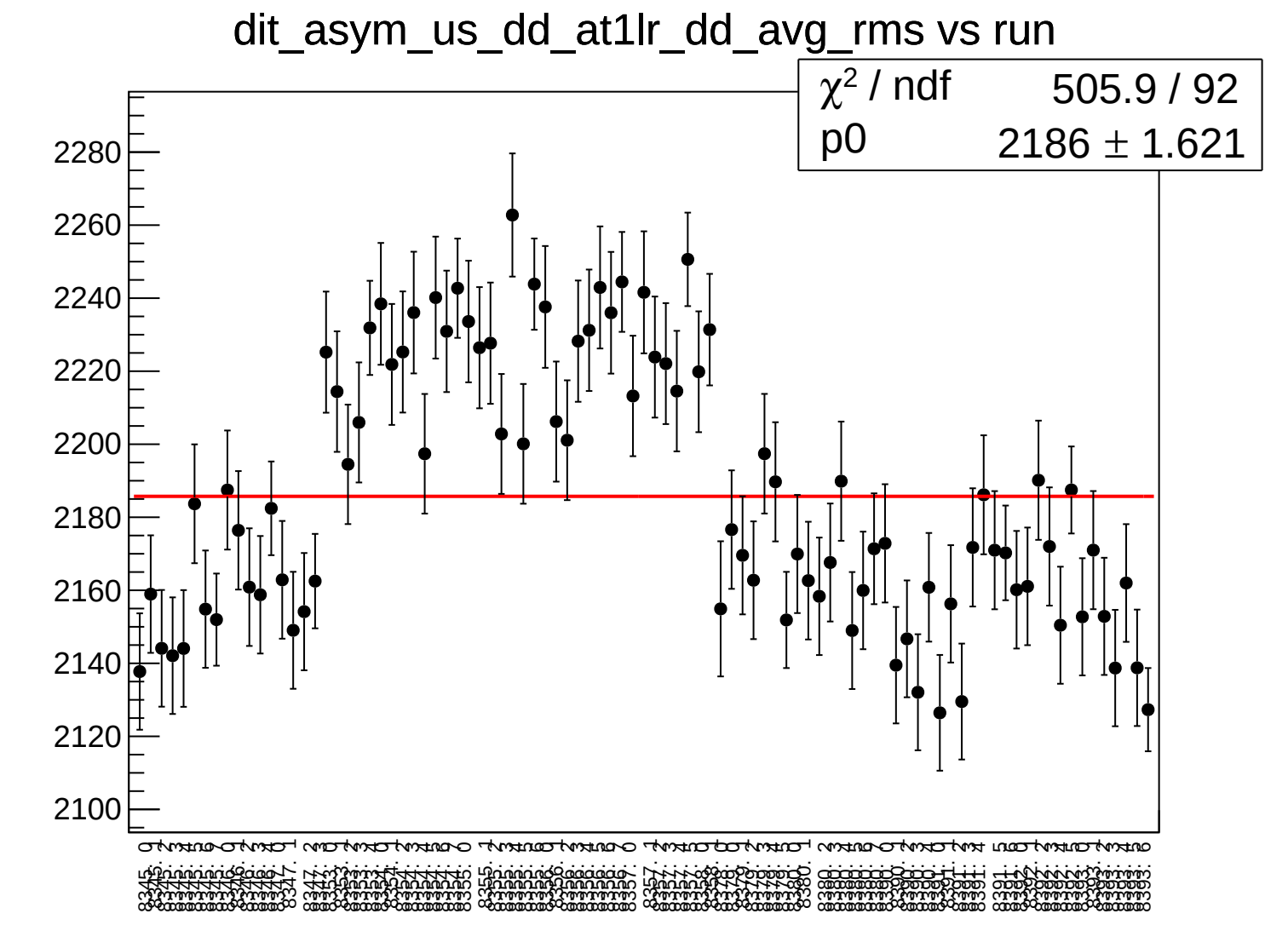

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 99.26 / 92
p0 −3202 ± 1458
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −163.4
Std Dev 0
2
1
0
−1
−2
−3

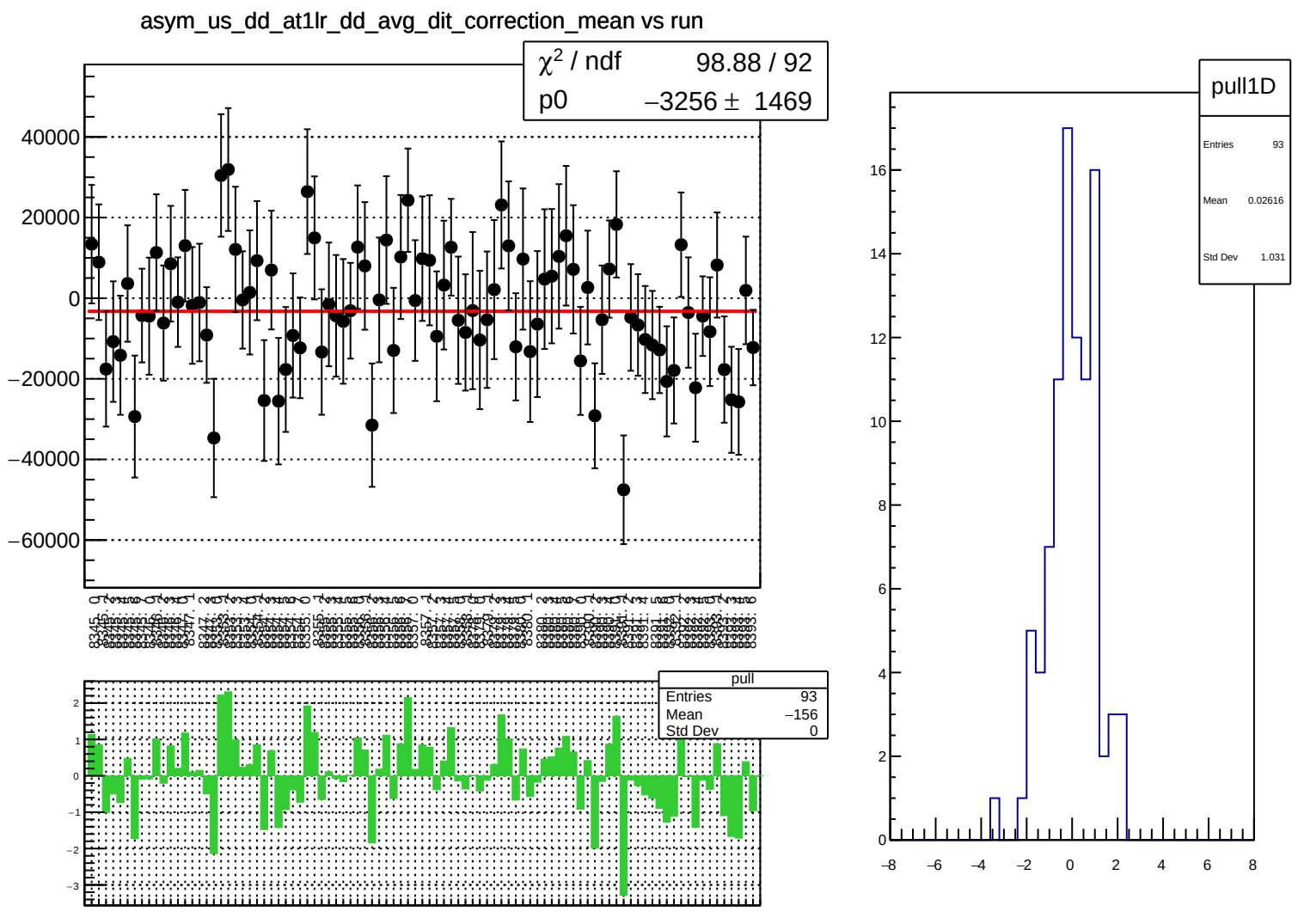

pull1D
Entries 93
Mean 0.02585
Std Dev 1.033
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

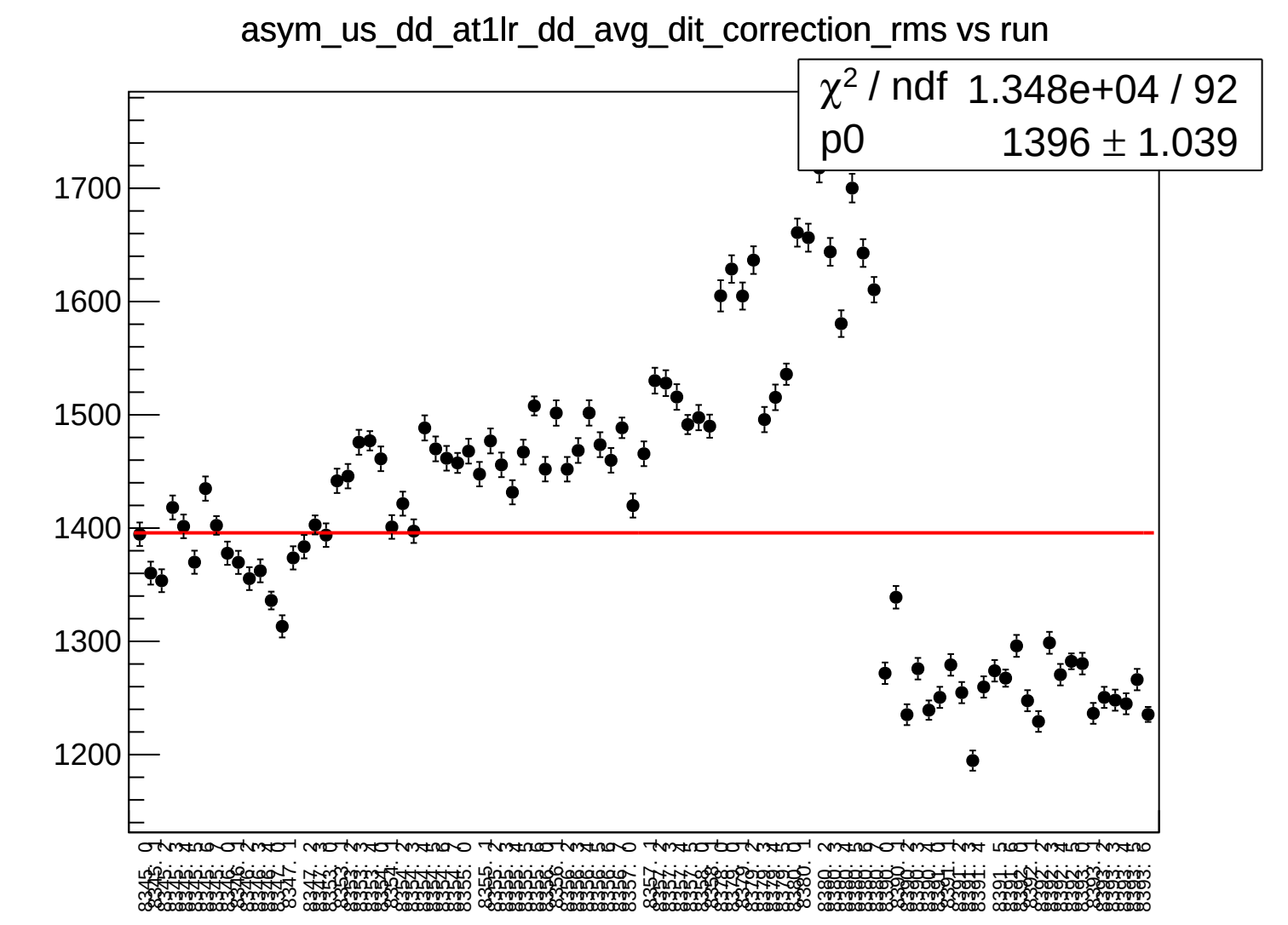

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.672e+04 / 92
p0 1384 ± 1.031
1800
1700
1600
1500
1400
1300
1200

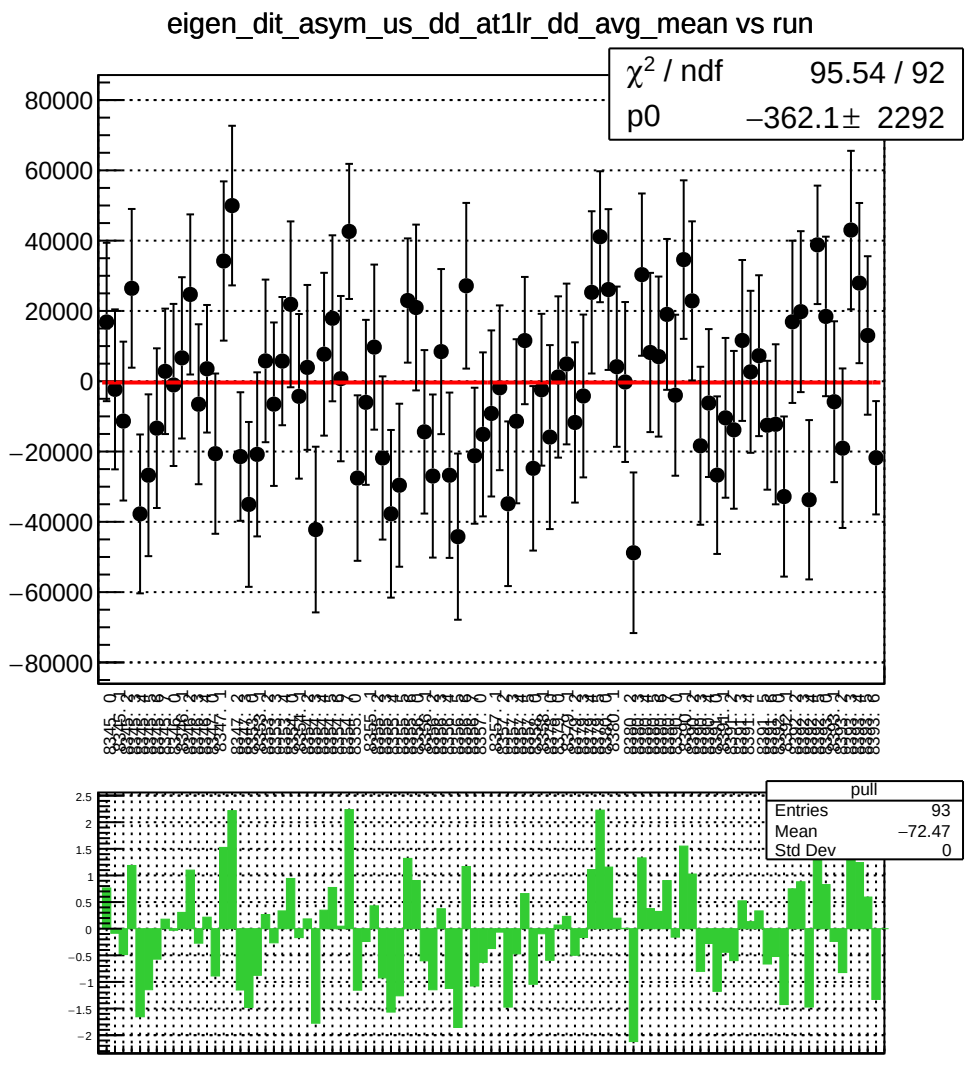

dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 95.54 / 92
p0 −362.1± 2292
pull
Entries 93
Mean −72.47
Std Dev 0

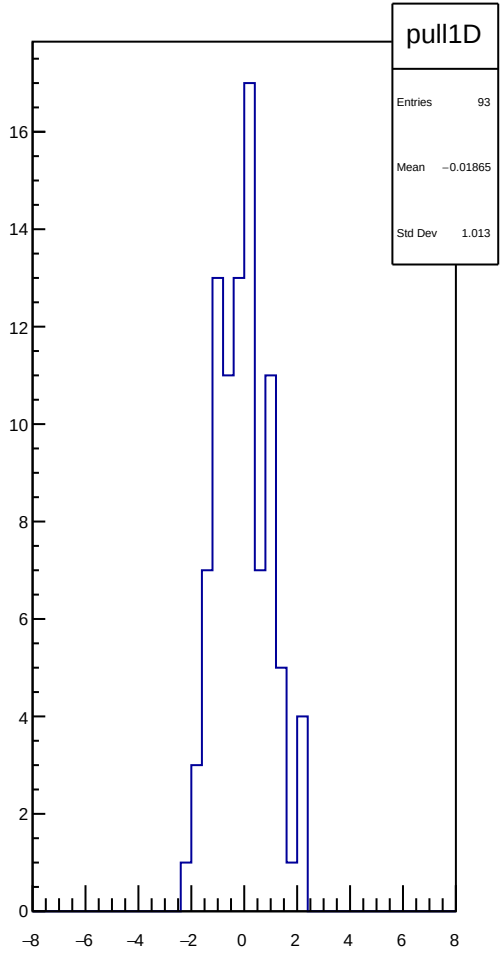

pull1D
Entries 93
Mean −0.01865
Std Dev 1.013

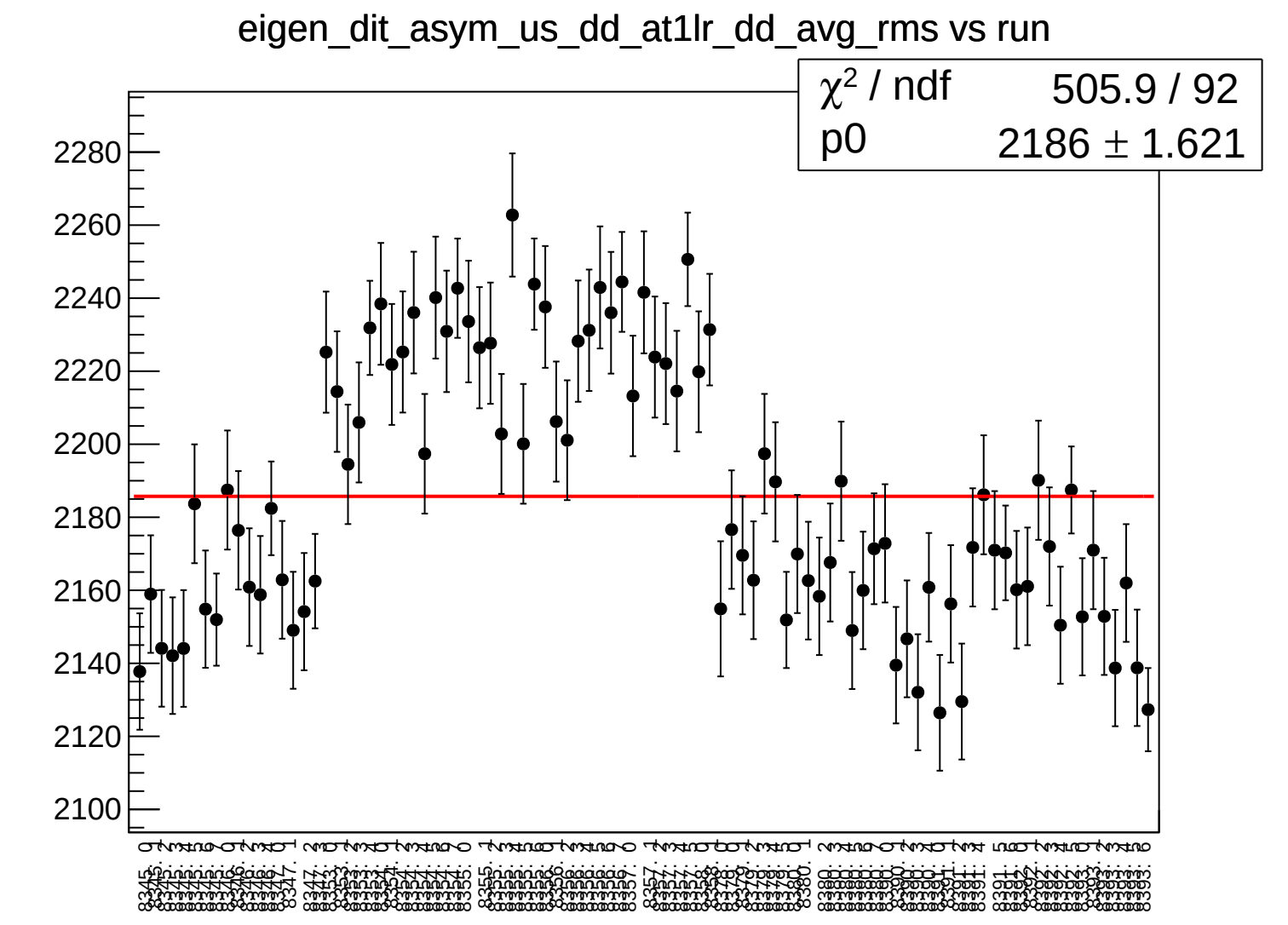

dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 505.9 / 92
p0 2186 ± 1.621
2280
2260
2240
2220
2200
2180
2160
2140
2120
2100

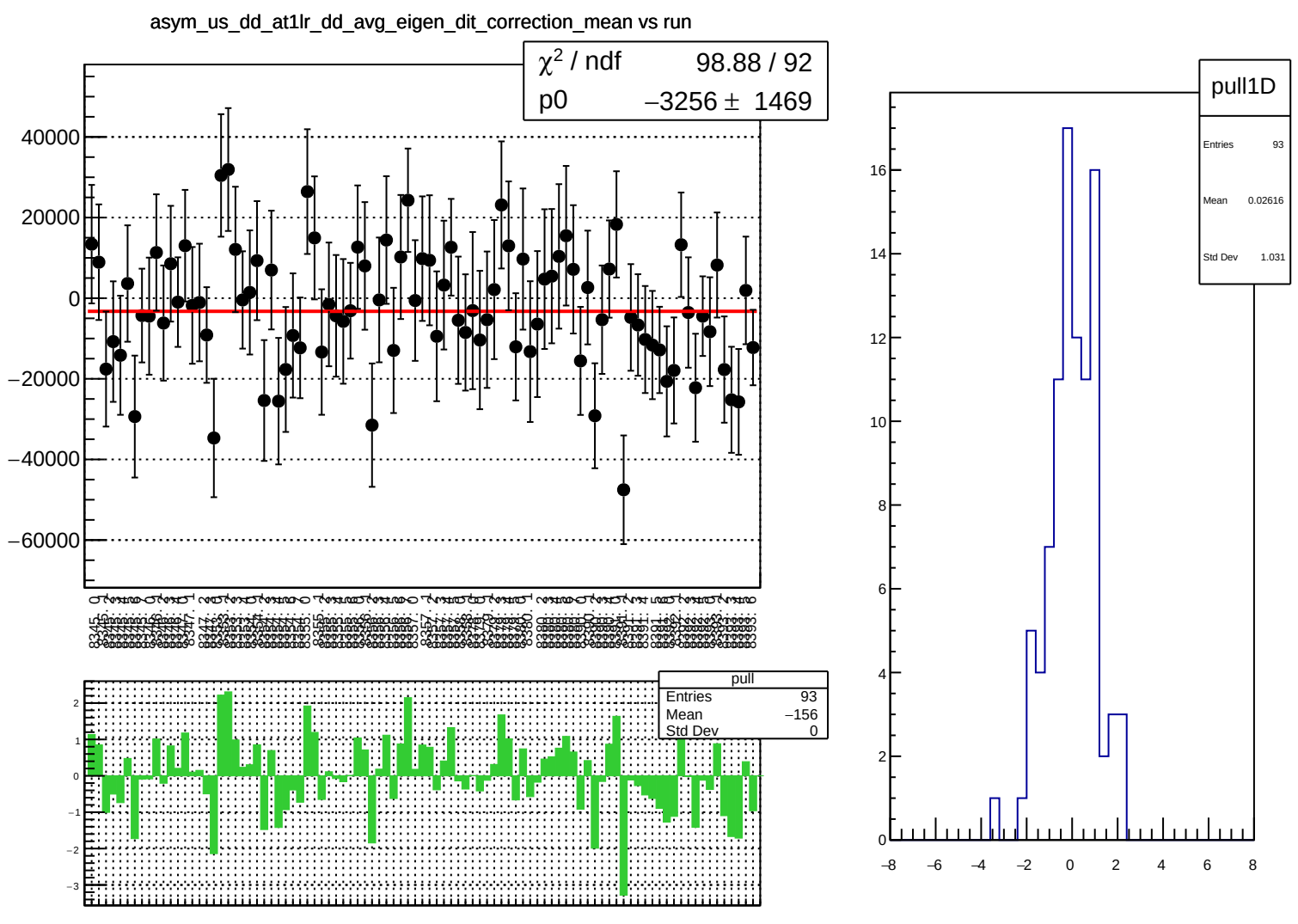

asym_us_dd_at1lr_dd_avg_dit_correction_mean vs run
χ² / ndf 98.88 / 92
p0 −3256 ± 1469
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −156
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.02616
Std Dev 1.031
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

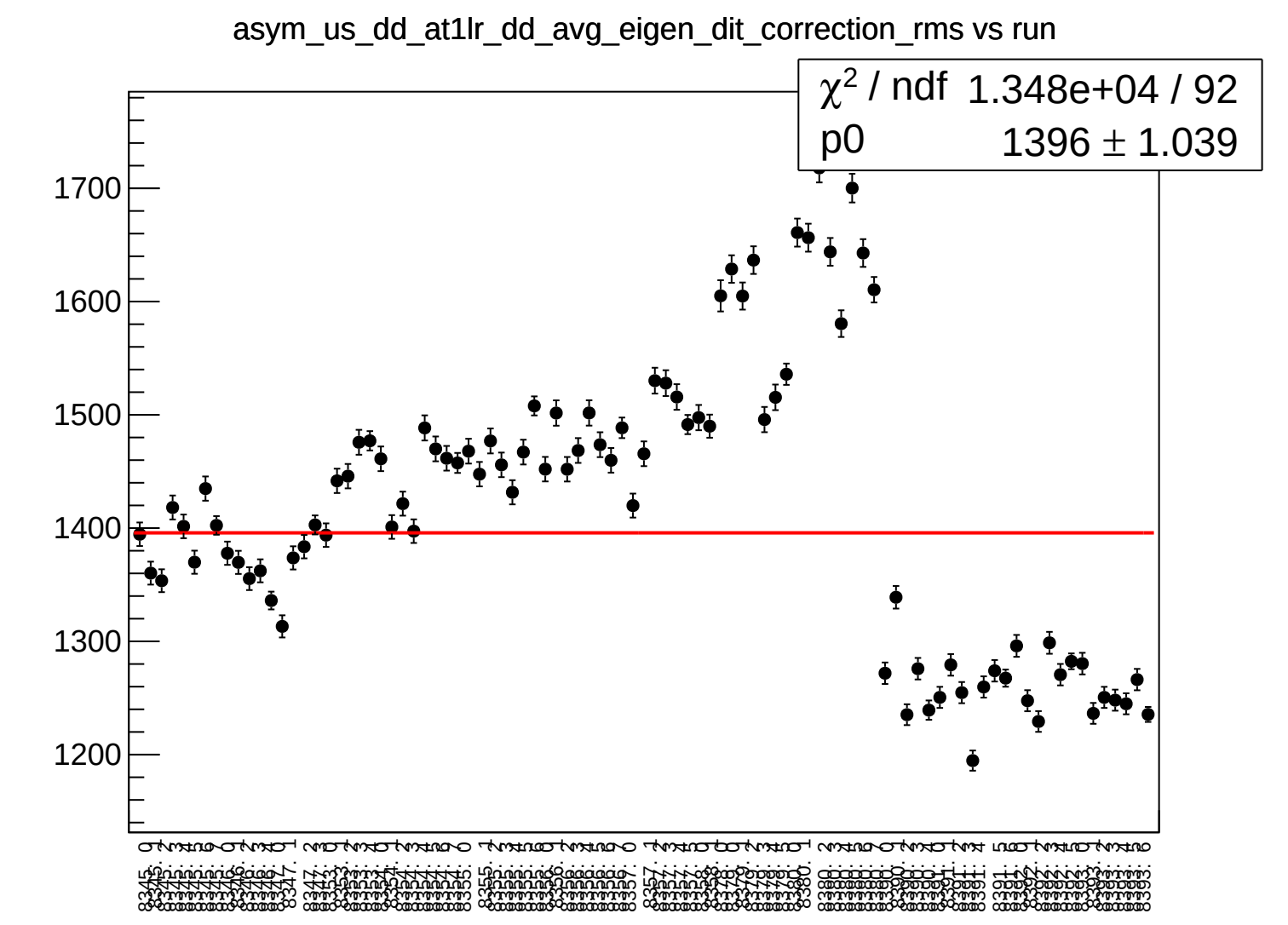

asym_us_dd_at1lr_dd_avg_dit_correction_rms vs run
χ² / ndf 1.348e+04 / 92
p0 1396 ± 1.039
1700
1600
1500
1400
1300
1200

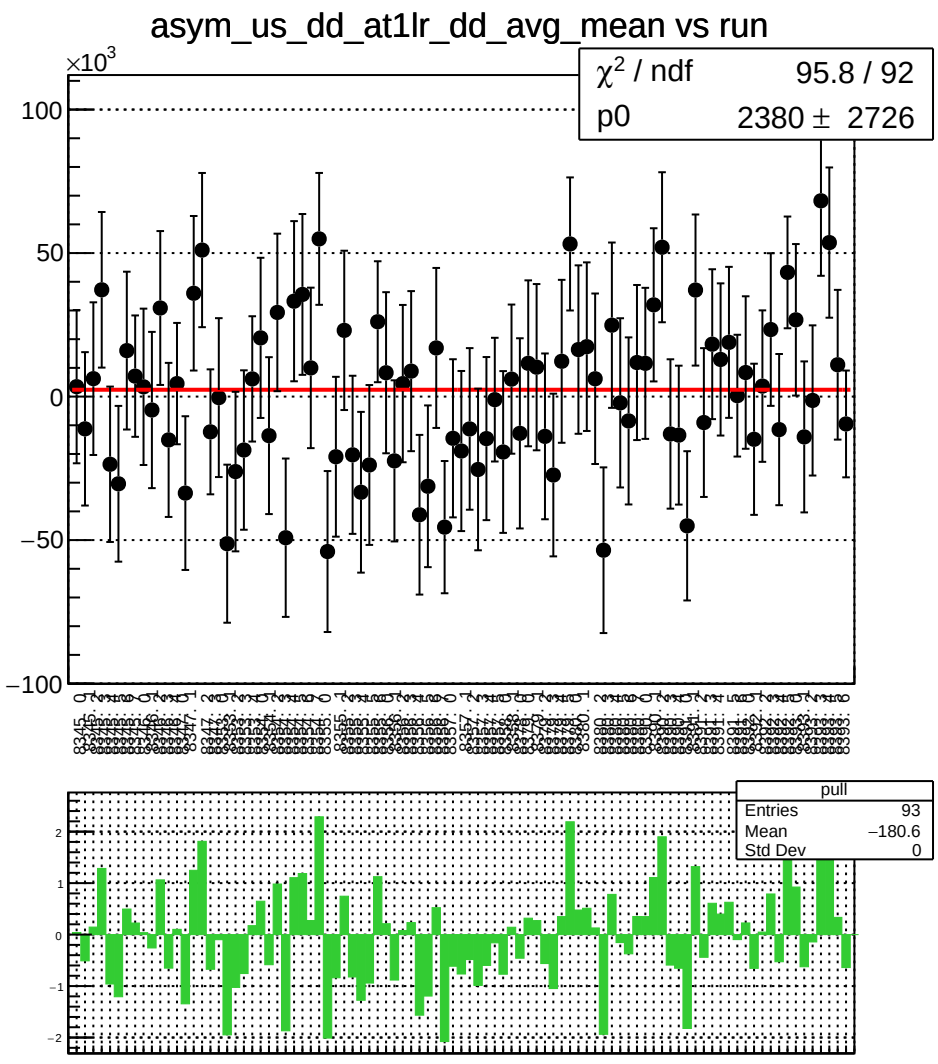

eigen_dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 95.54 / 92
p0 −362.1± 2292
pull
Entries 93
Mean −72.47
Std Dev 0

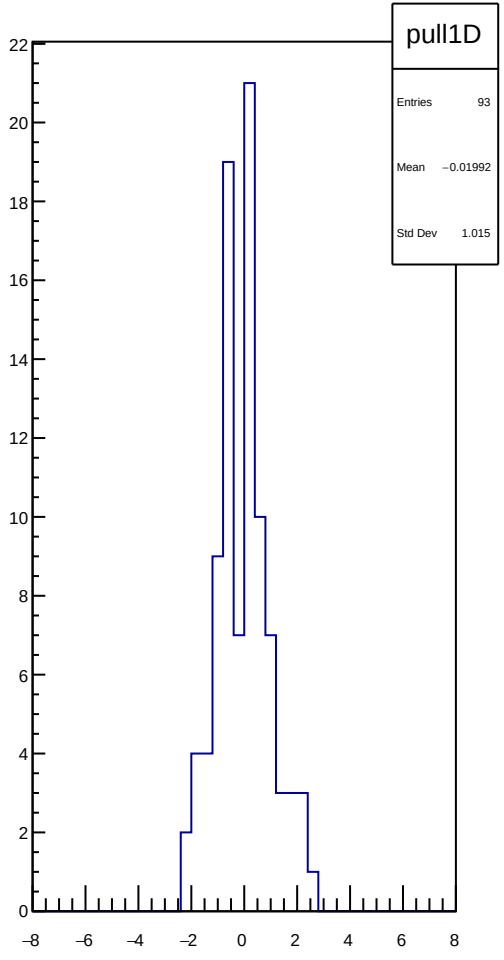

pull1D
Entries 93
Mean −0.01865
Std Dev 1.013

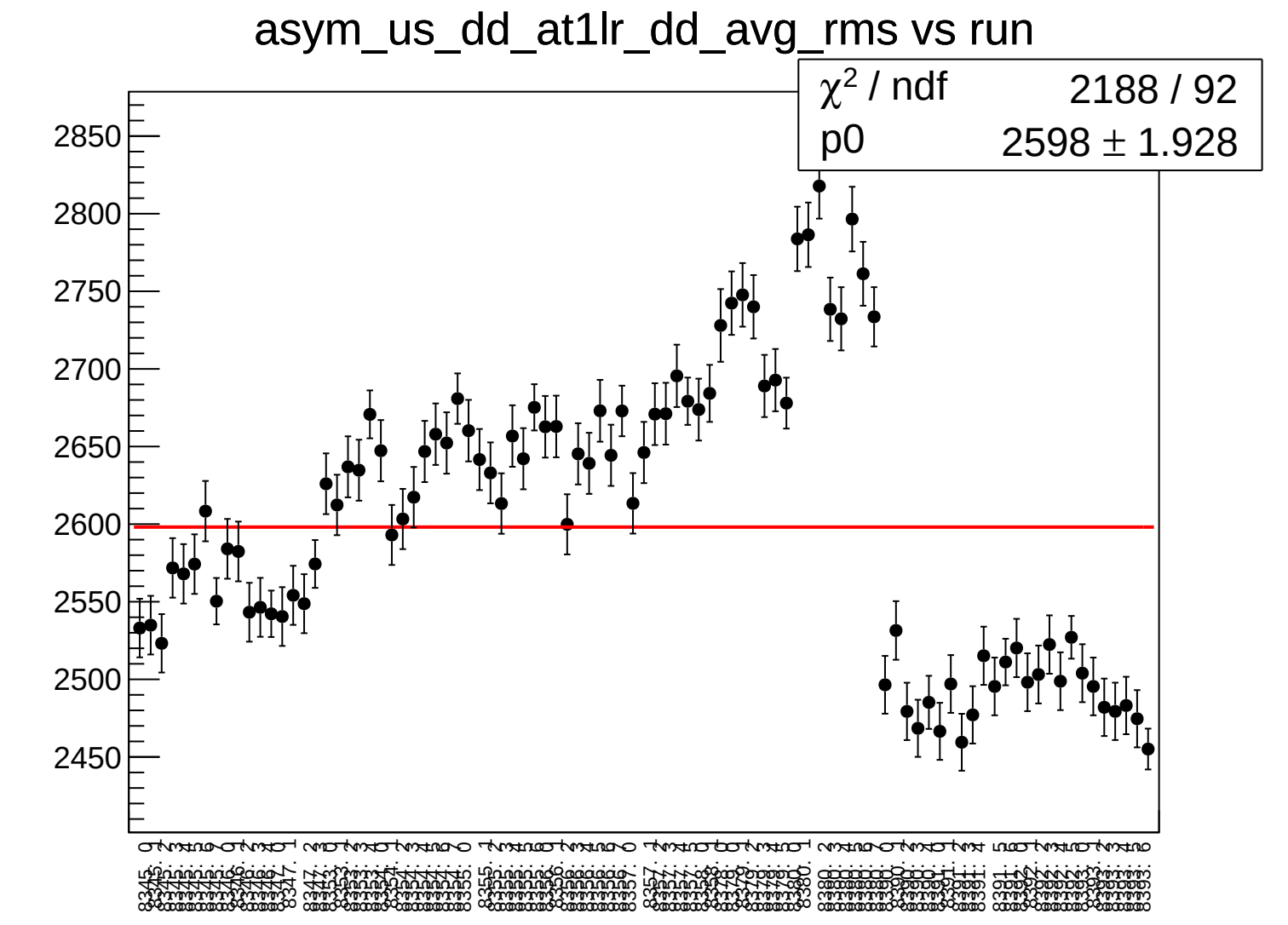

eigen_dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 505.9 / 92
p0 2186 ± 1.621
2280
2260
2240
2220
2200
2180
2160
2140
2120
2100

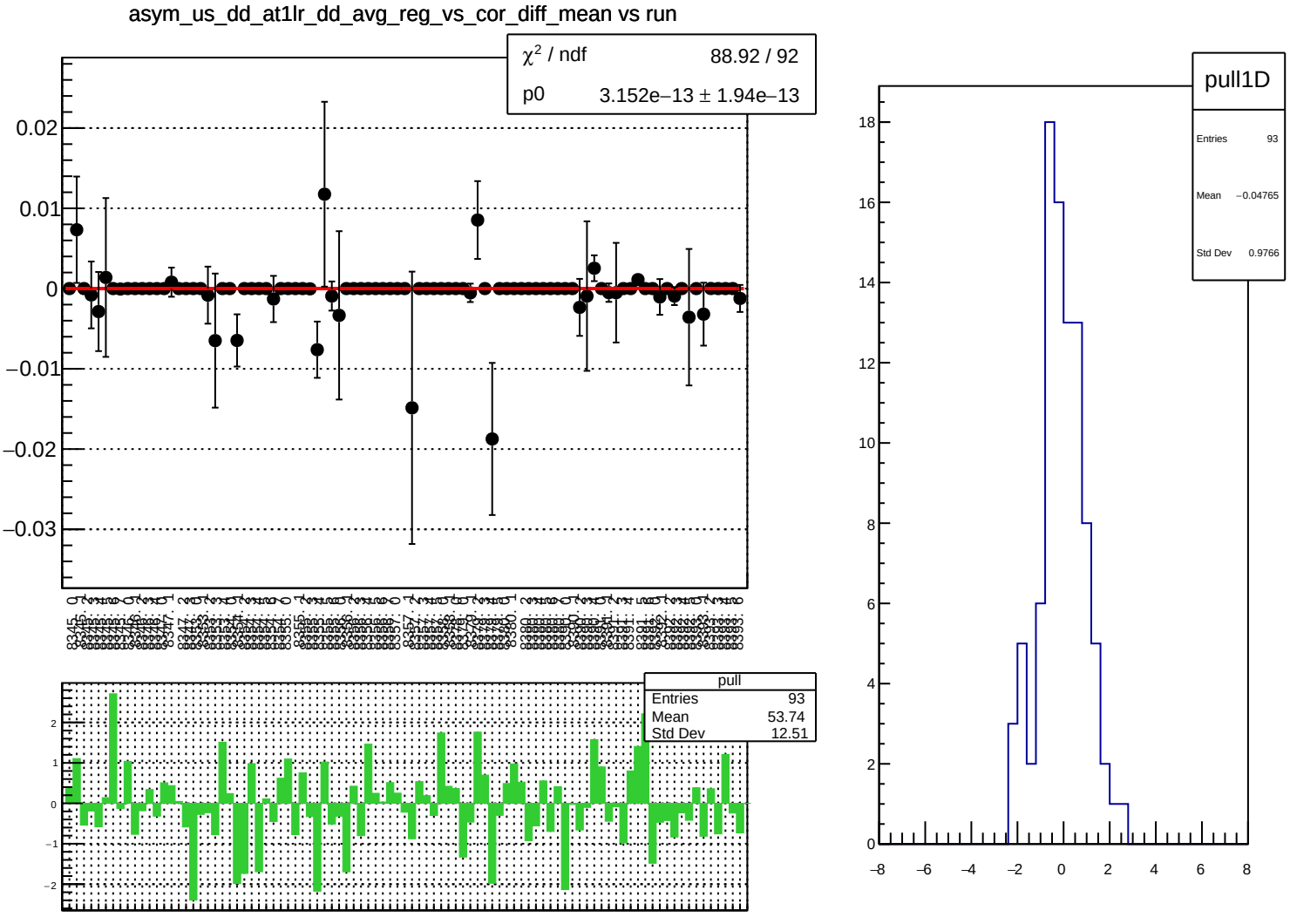

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 98.88 / 92
p0 −3256 ± 1469
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −156
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.02616
Std Dev 1.031
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

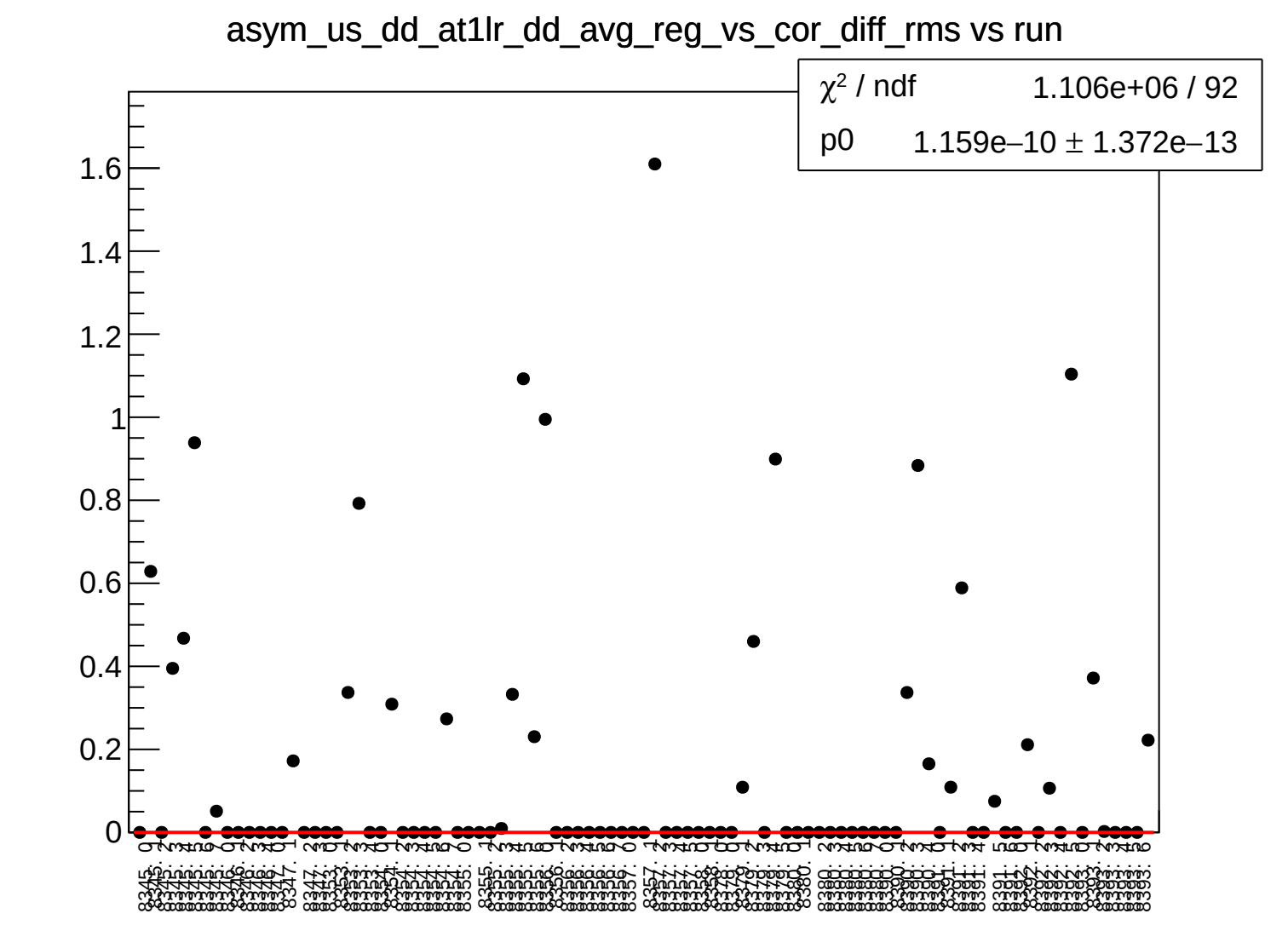

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.348e+04 / 92
p0 1396 ± 1.039
1700
1600
1500
1400
1300
1200

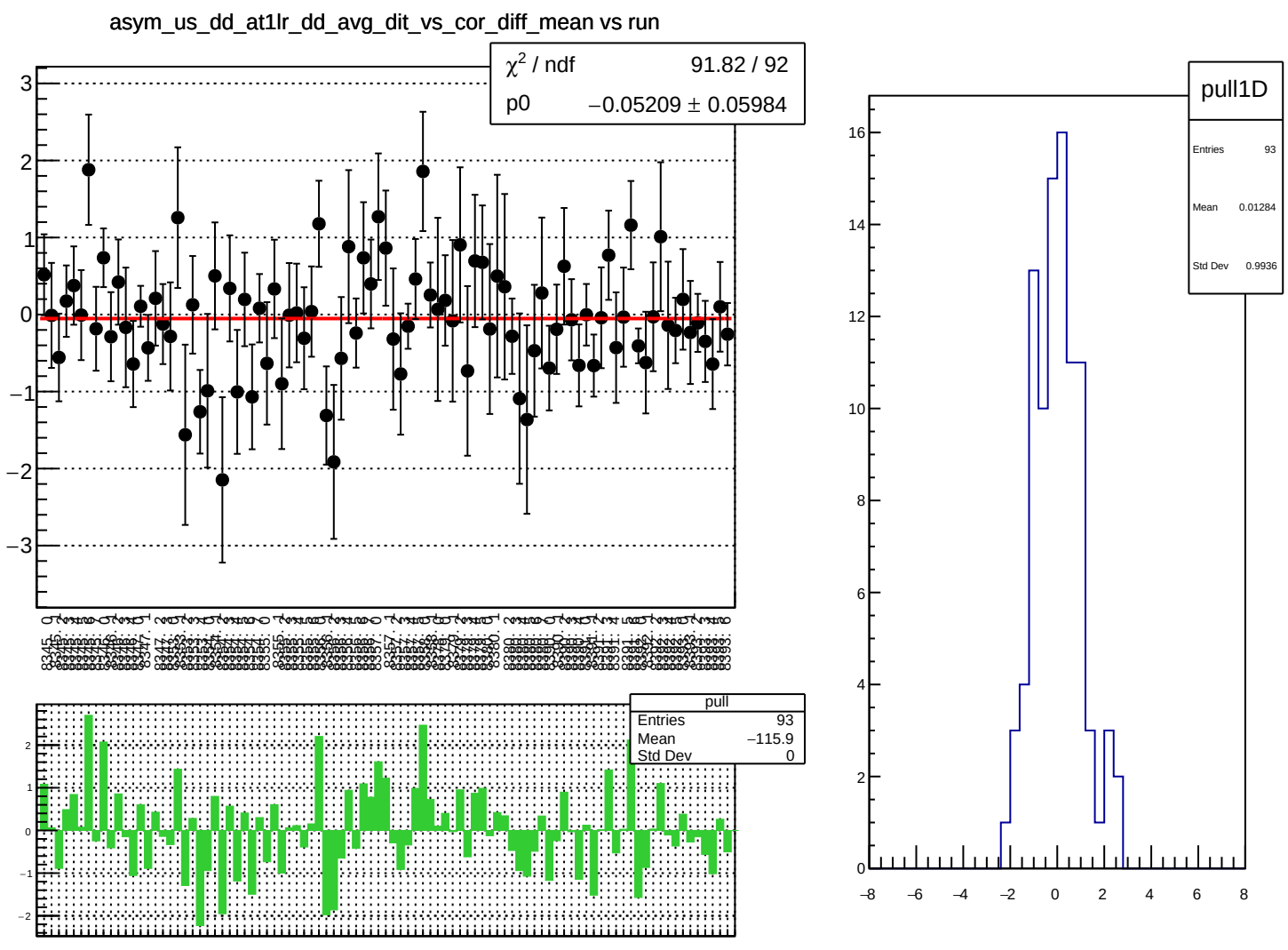

asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ^2 / ndf 95.8 / 92
p0 2380 ± 2726
100
50
0
−50
−100
pull
Entries 93
Mean −180.6
Std Dev 0
2
1
0
−1
−2

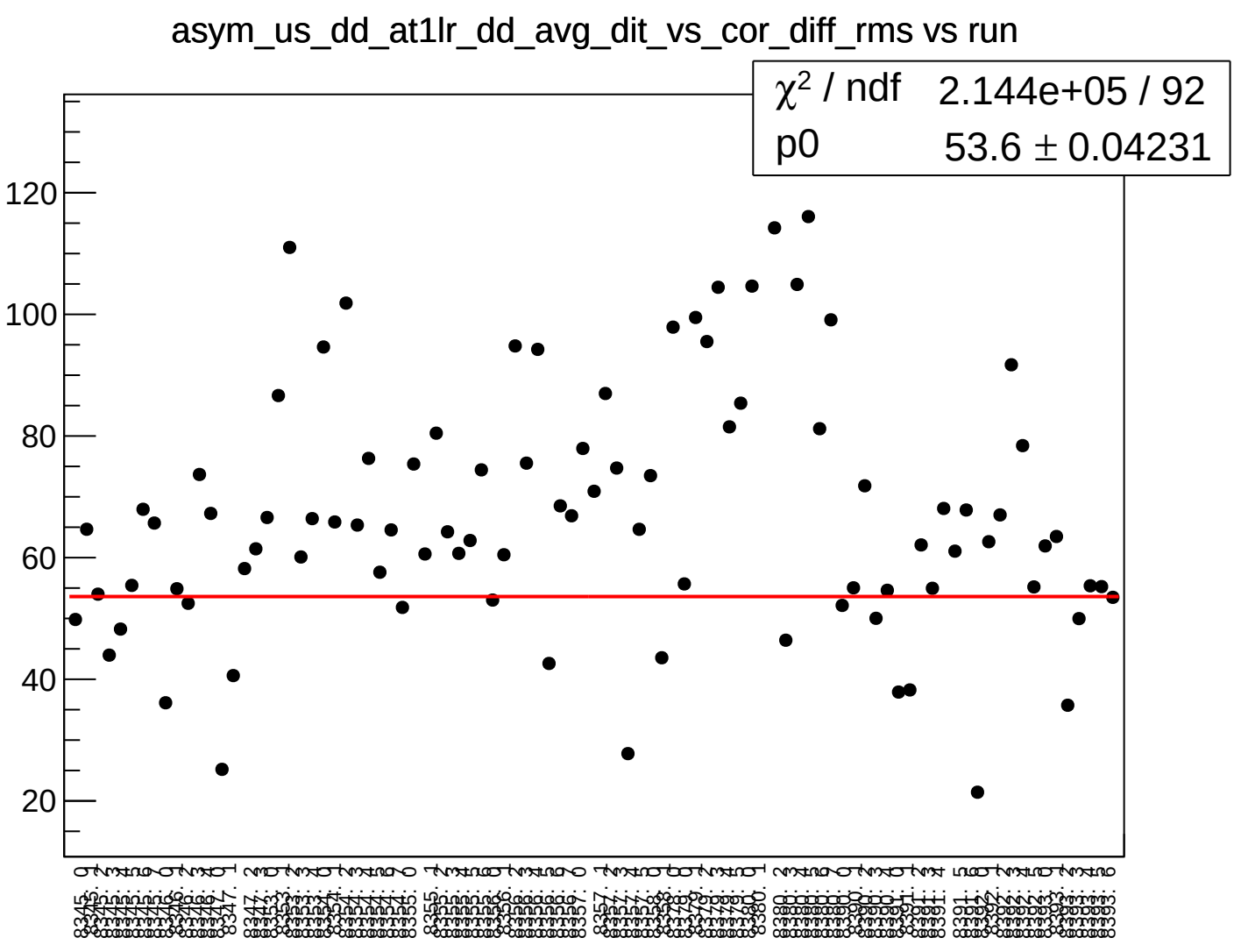

pull1D
Entries 93
Mean −0.01992
Std Dev 1.015
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

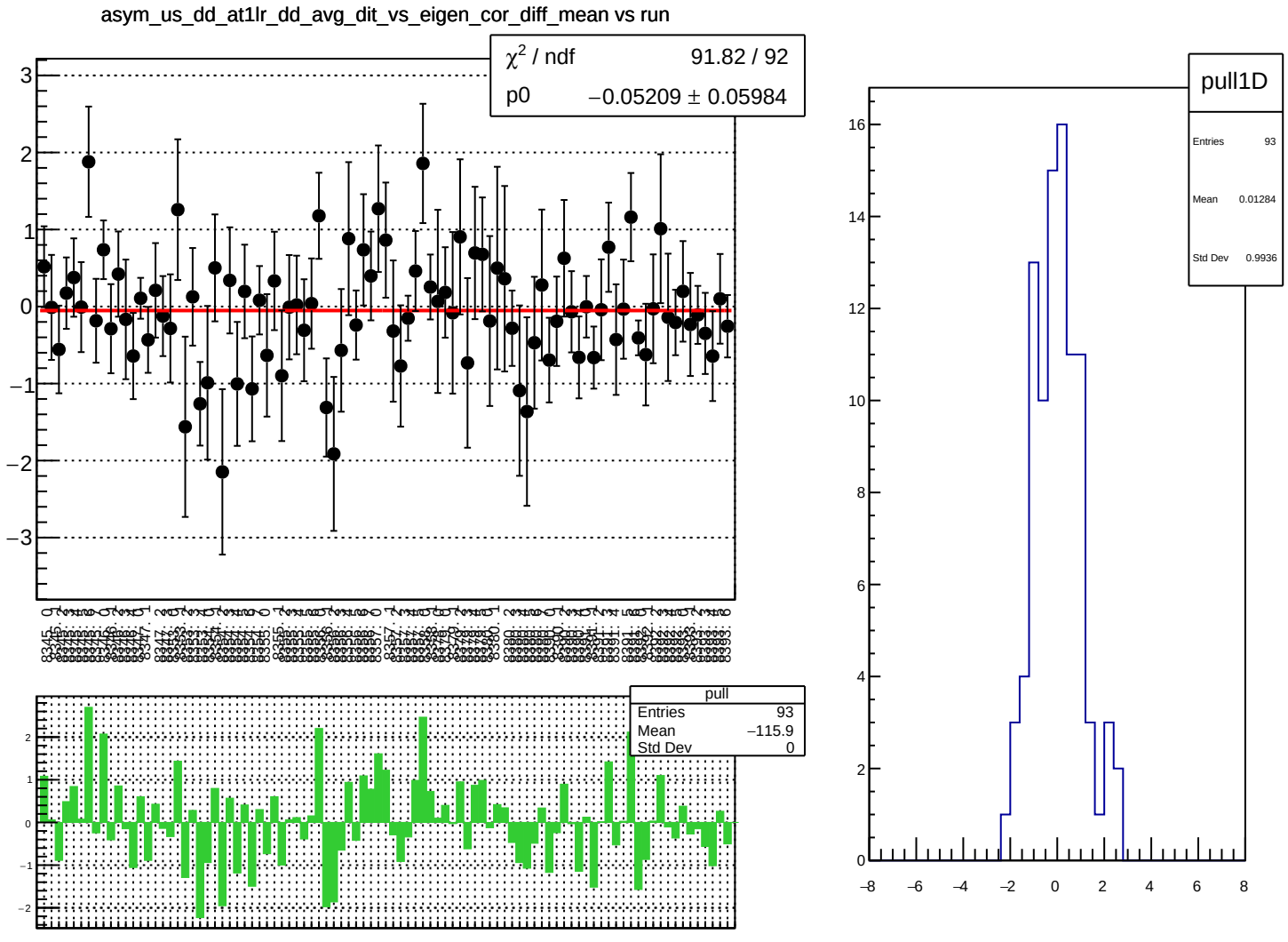

asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 2188 / 92
p0 2598 ± 1.928
2850
2800
2750
2700
2650
2600
2550
2500
2450

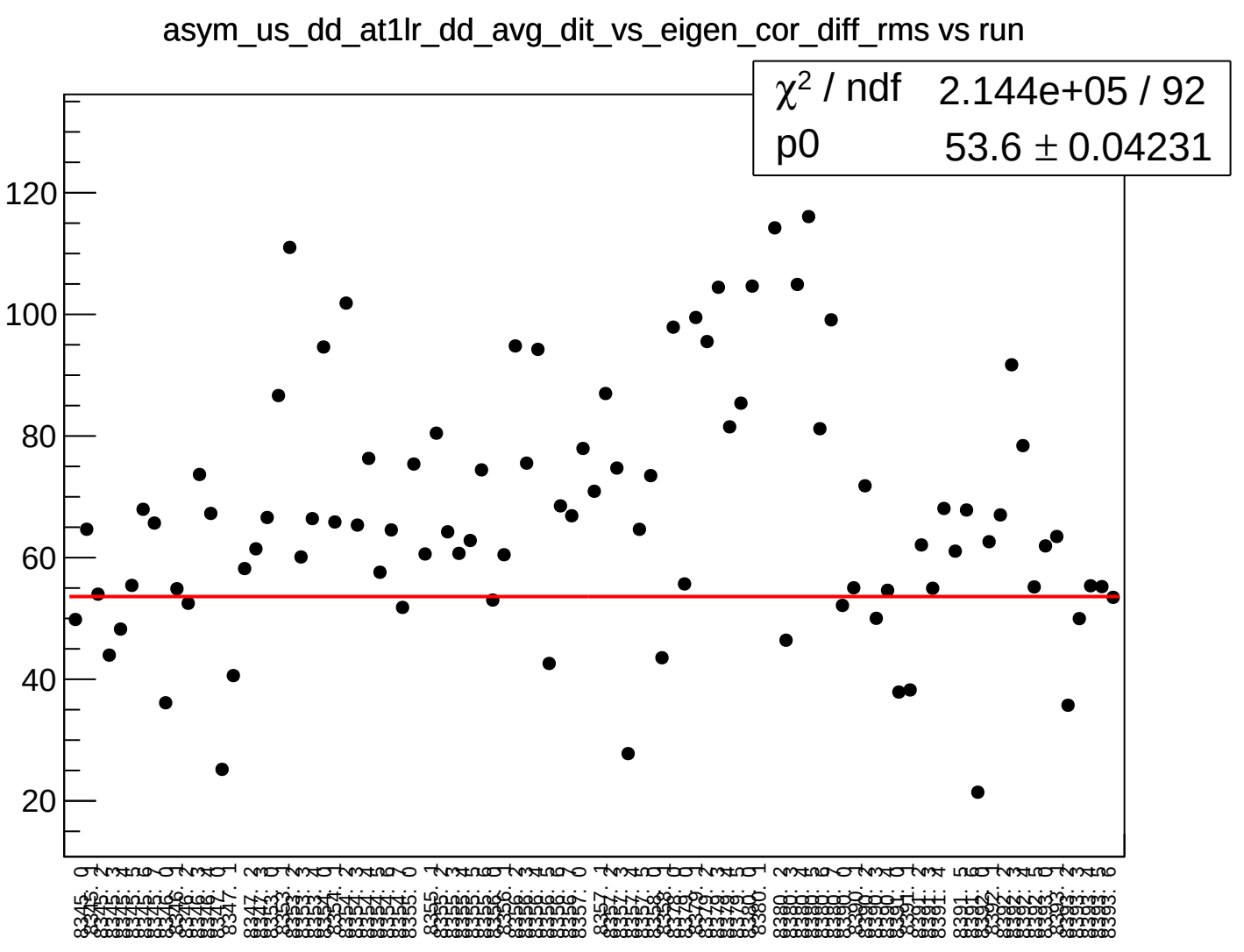

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 88.92 / 92
p0 3.152e−13 ± 1.94e−13
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 93
Mean 53.74
Std Dev 12.51
pull1D
Entries 93
Mean −0.04765
Std Dev 0.9766
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

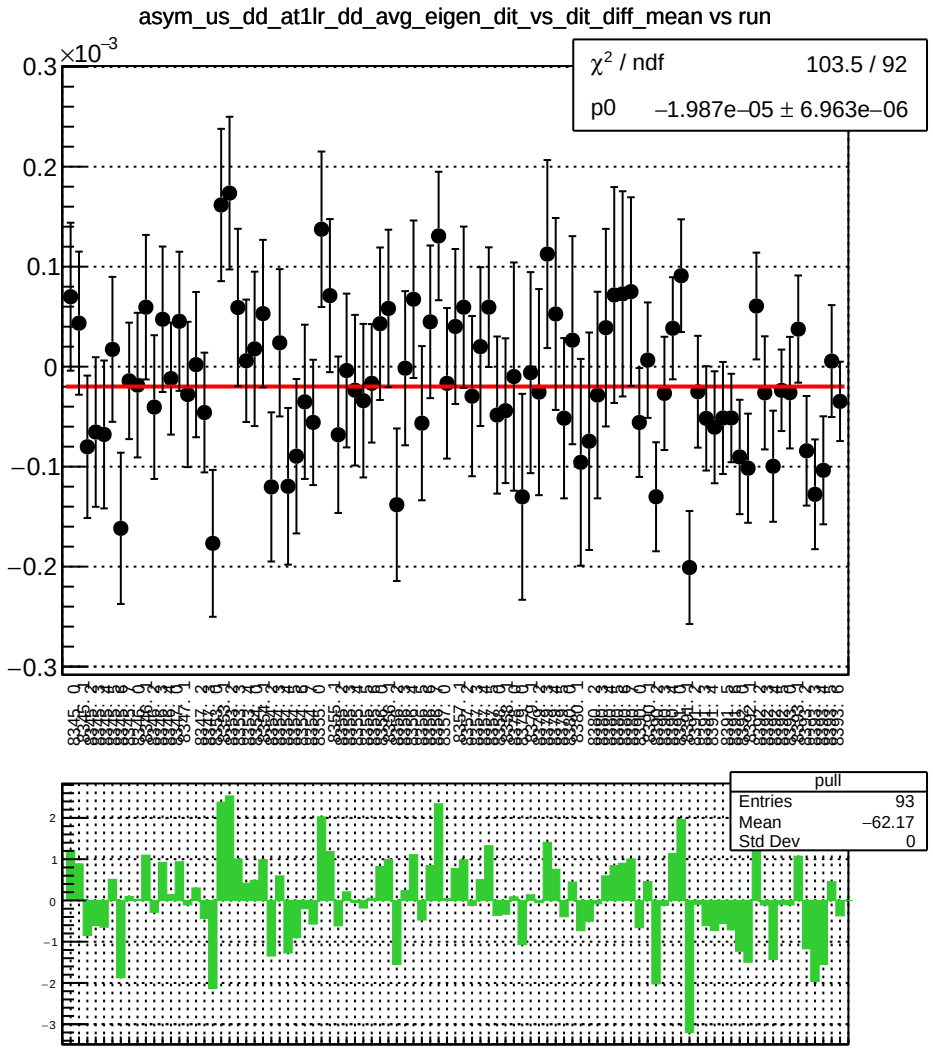

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.106e+06 / 92
p0 1.159e−10 ± 1.372e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

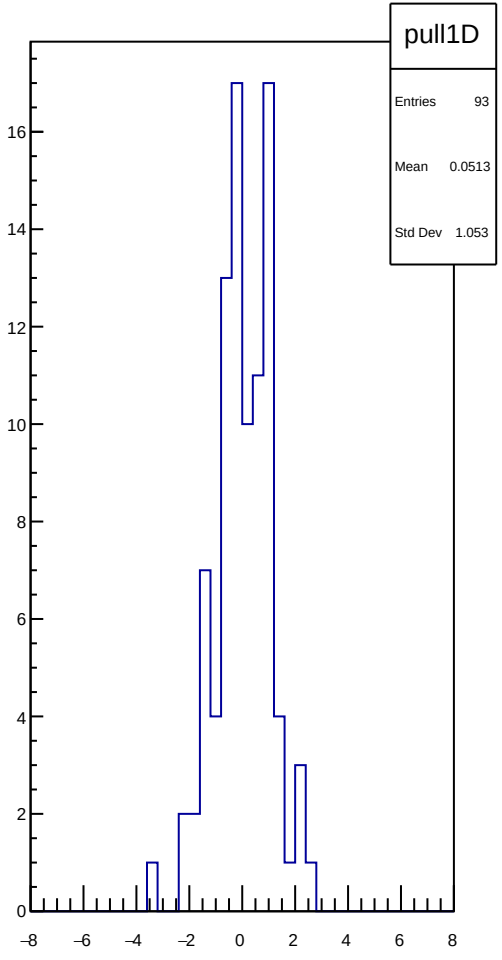

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 91.82 / 92
p0 −0.05209 ± 0.05984
pull
Entries 93
Mean −115.9
Std Dev 0
pull1D
Entries 93
Mean 0.01284
Std Dev 0.9936

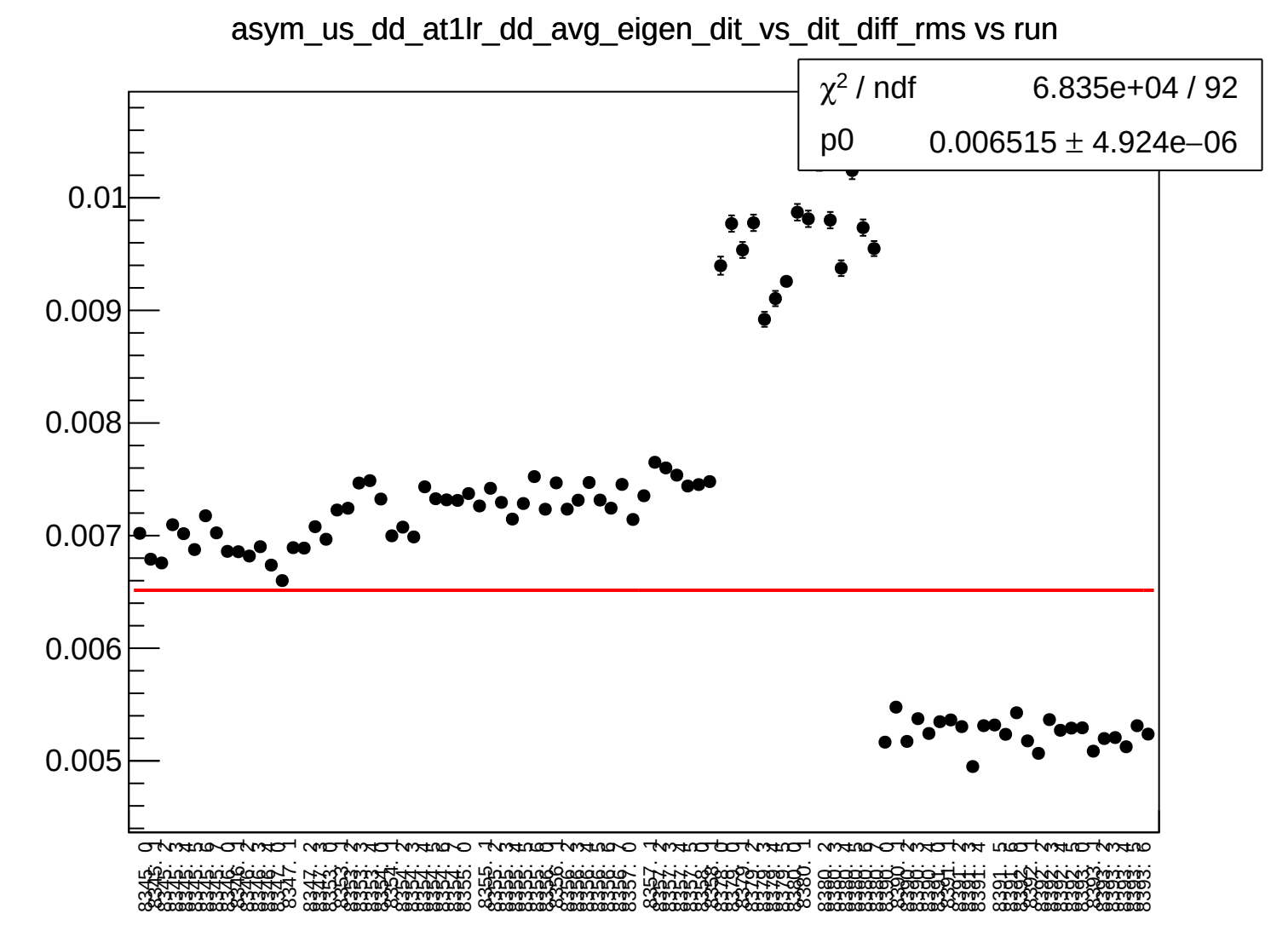

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.144e+05 / 92
p0 53.6 ± 0.04231
120
100
80
60
40
20

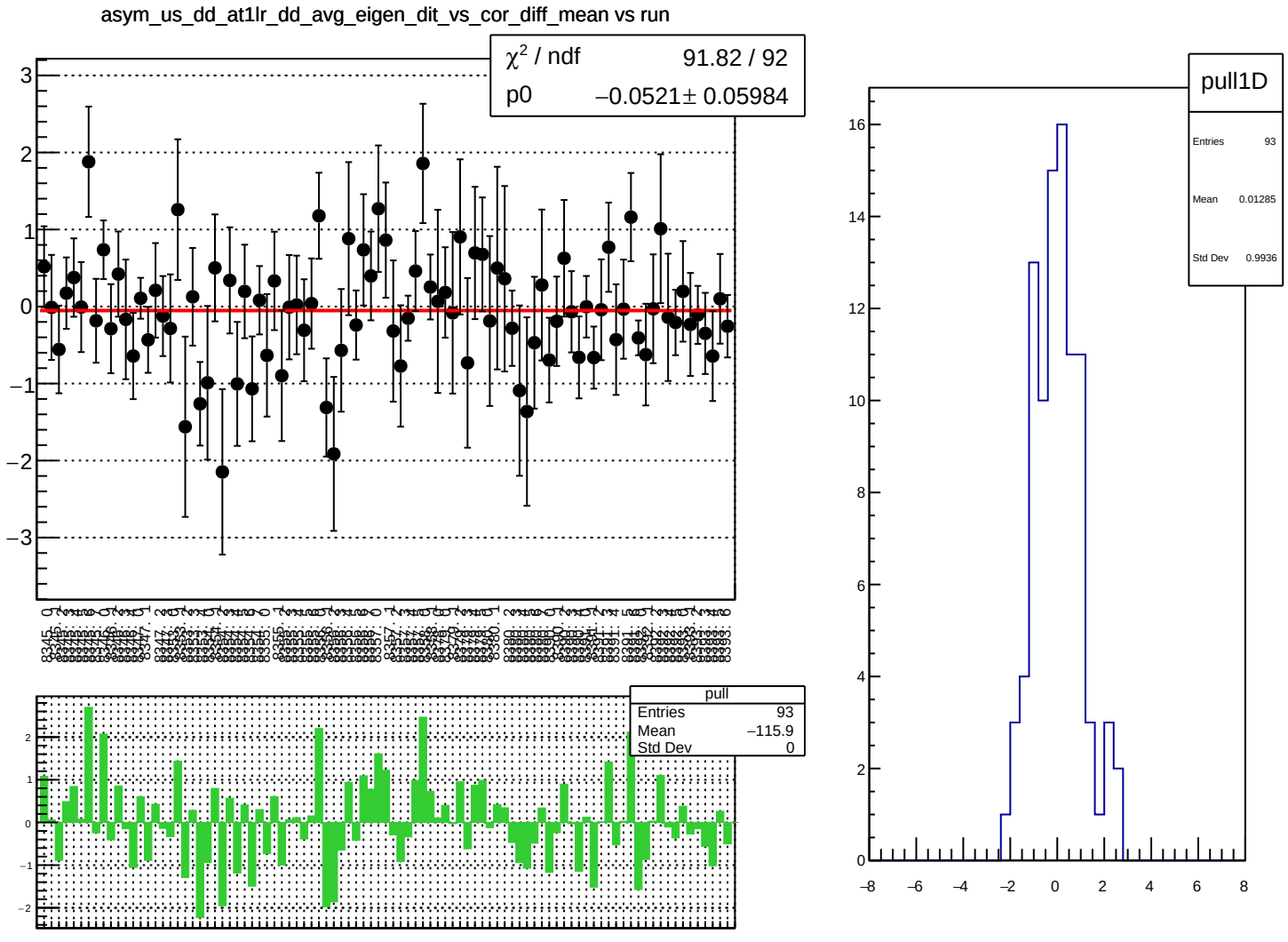

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.82 / 92
p0 −0.05209 ± 0.05984
pull
Entries 93
Mean −115.9
Std Dev 0
pull1D
Entries 93
Mean 0.01284
Std Dev 0.9936

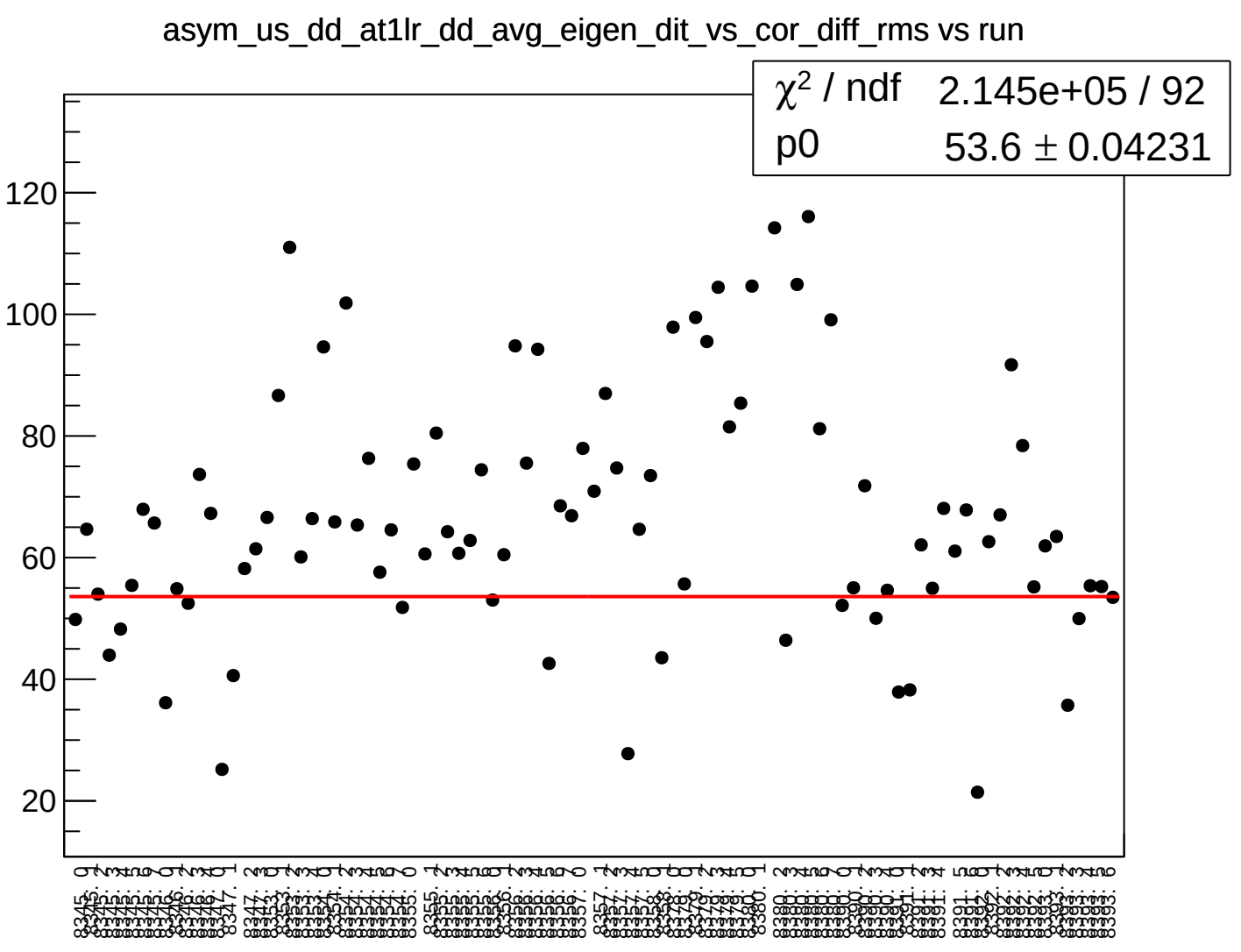

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.144e+05 / 92
p0 53.6 ± 0.04231
120
100
80
60
40
20

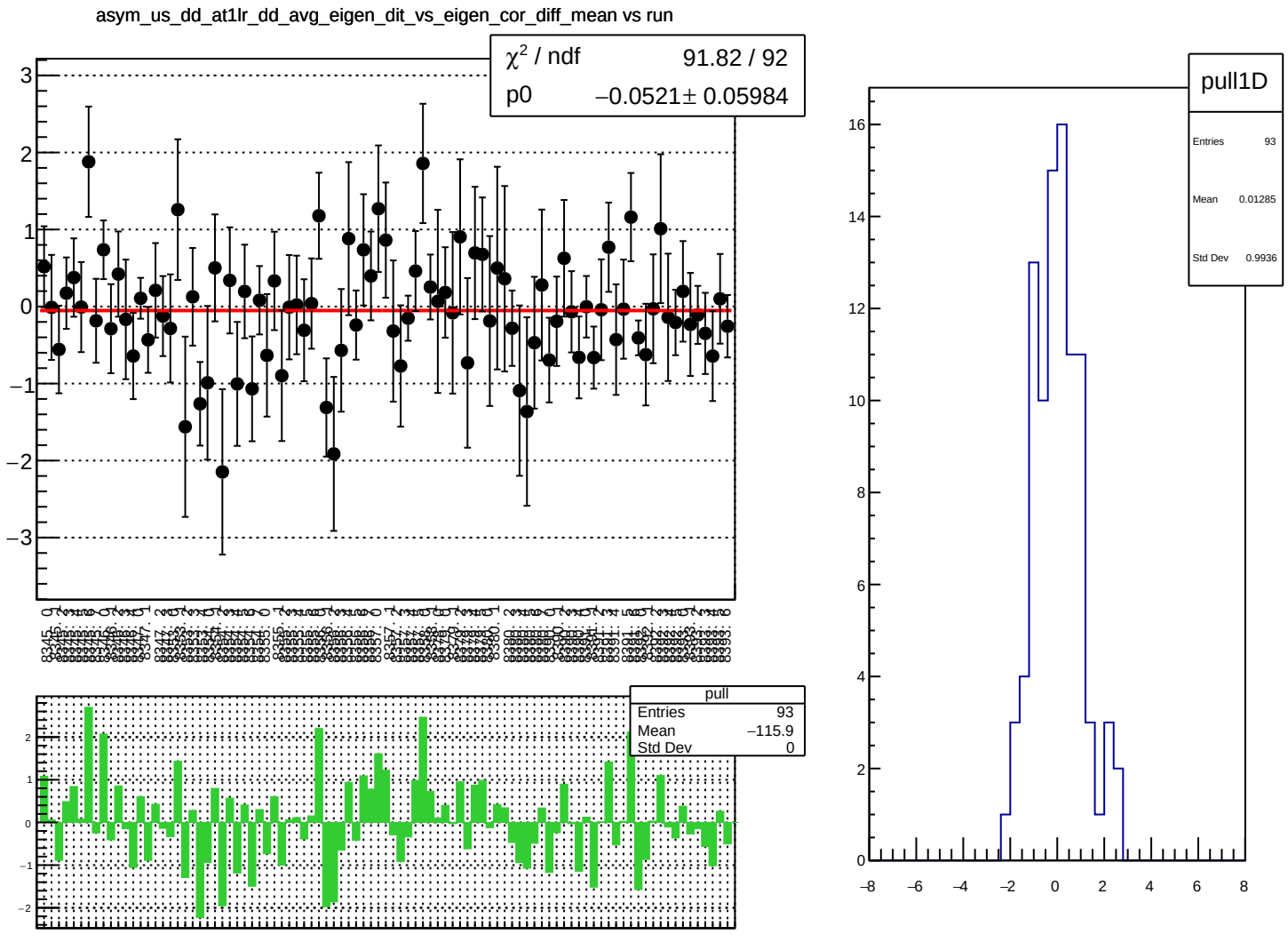

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 103.5 / 92
p0 −1.987e−05 ± 6.963e−06
pull
Entries 93
Mean −62.17
Std Dev 0

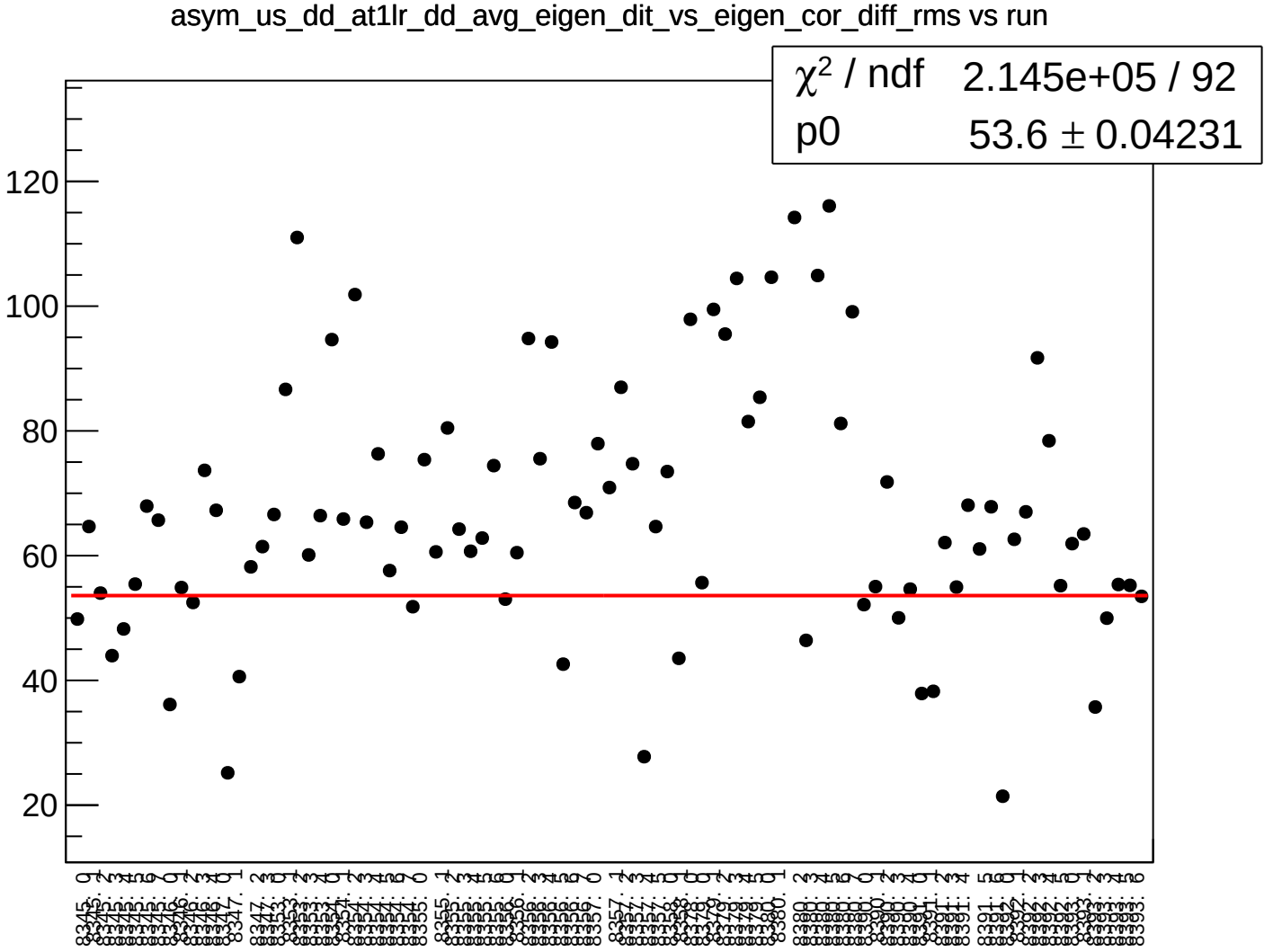

pull1D
Entries 93
Mean 0.0513
Std Dev 1.053

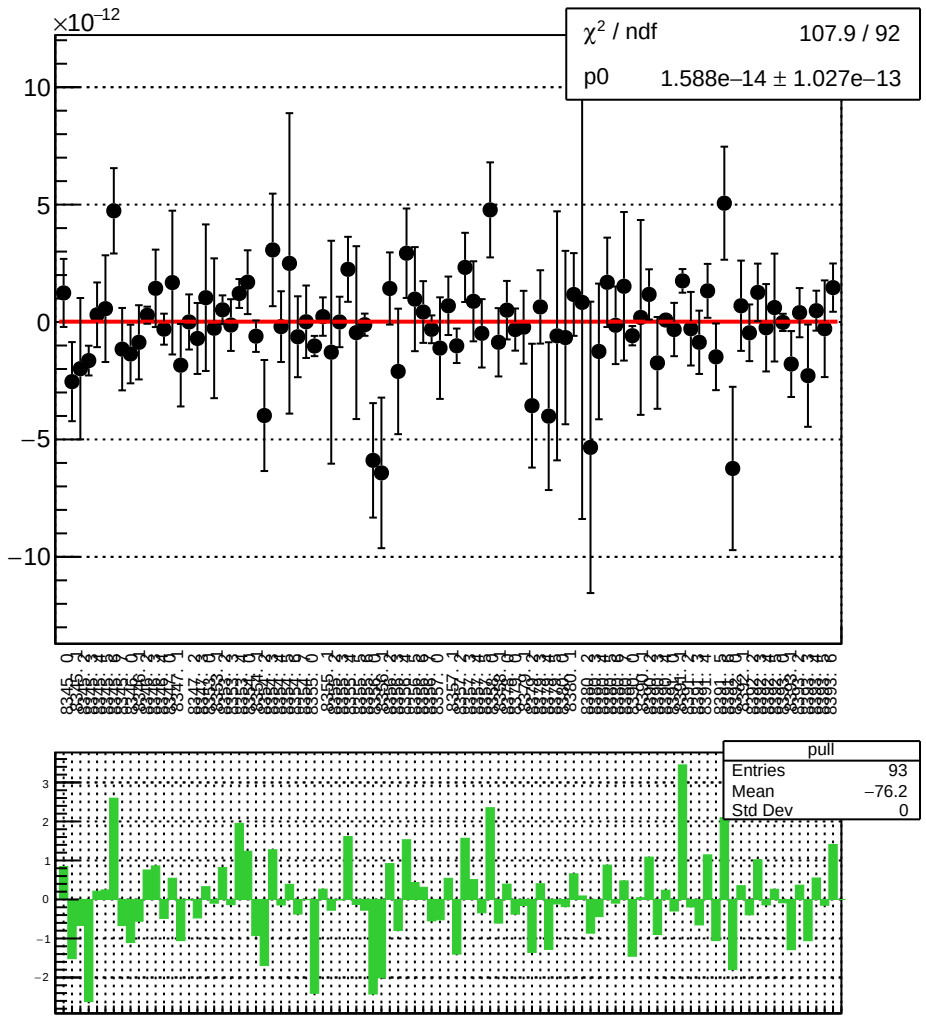

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.835e+04 / 92
p0 0.006515 ± 4.924e−06
0.01
0.009
0.008
0.007
0.006
0.005

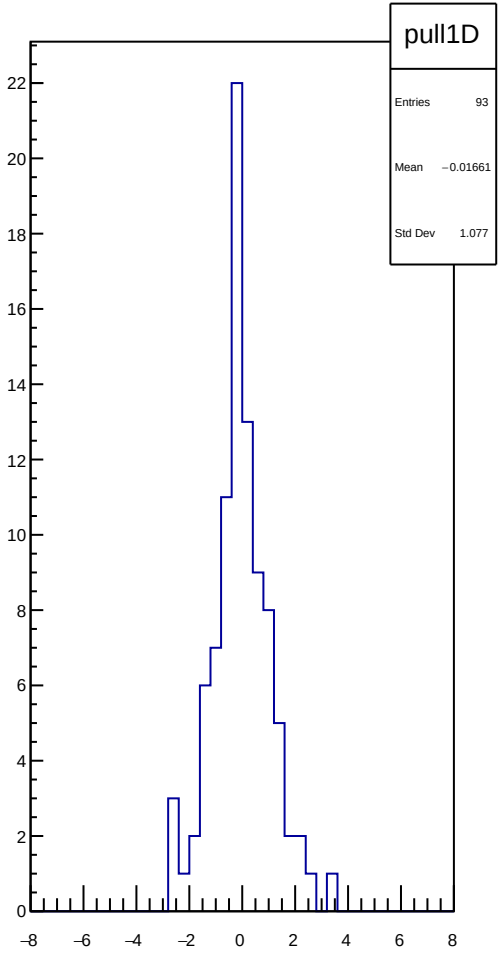

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.82 / 92
p0 −0.0521± 0.05984
pull
Entries 93
Mean −115.9
Std Dev 0
pull1D
Entries 93
Mean 0.01285
Std Dev 0.9936

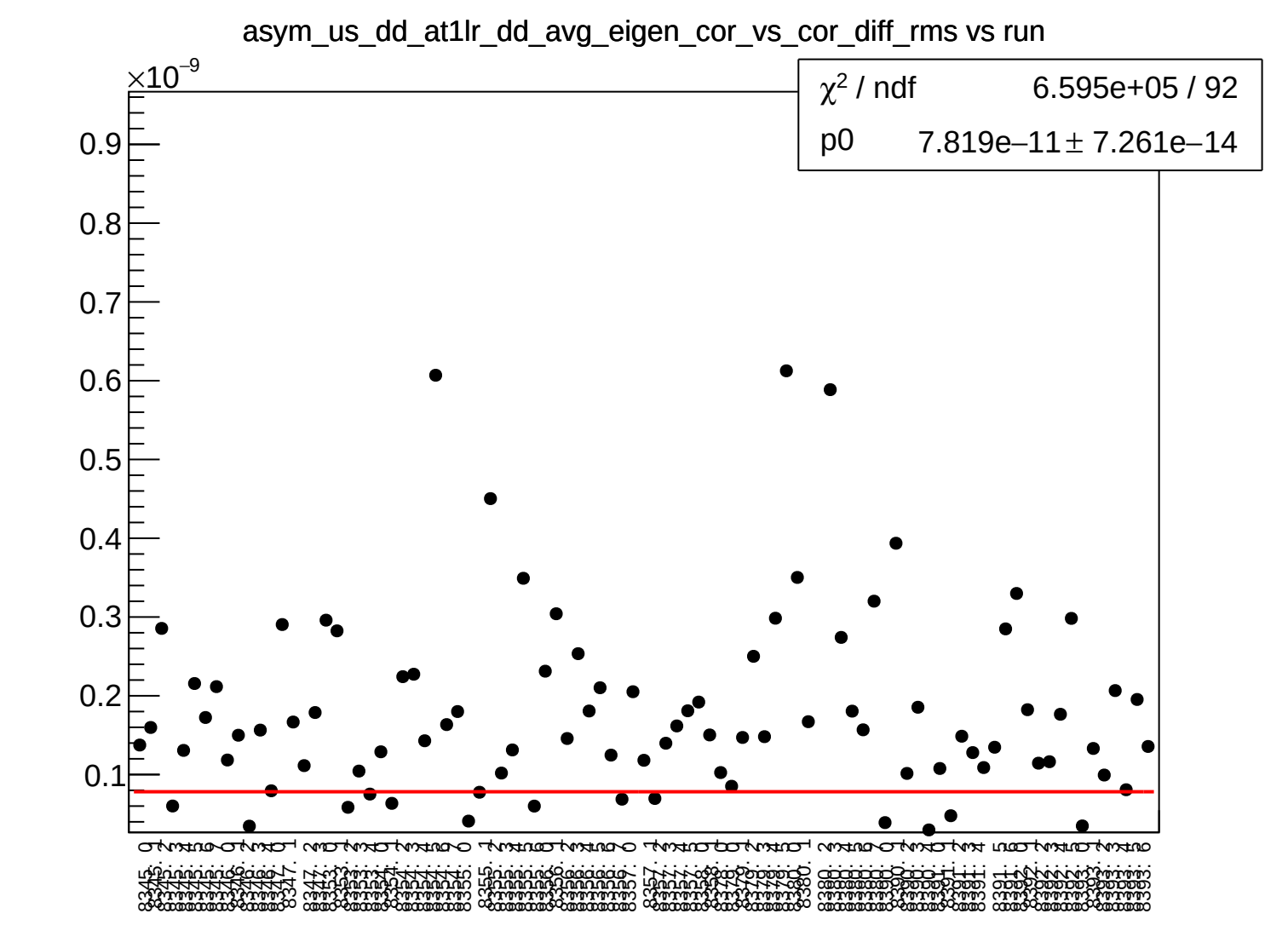

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.145e+05 / 92
p0 53.6 ± 0.04231
120
100
80
60
40
20

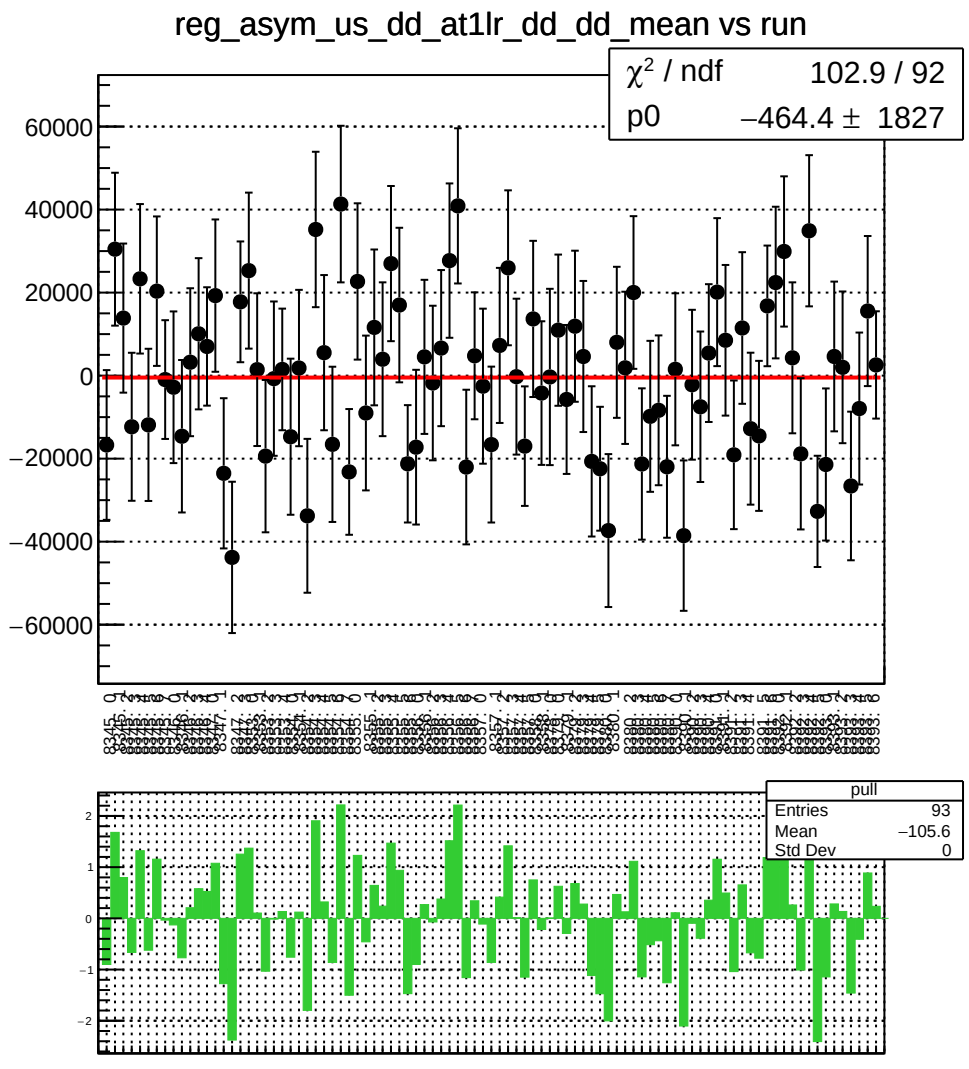

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.82 / 92
p0 −0.0521± 0.05984
pull
Entries 93
Mean −115.9
Std Dev 0
pull1D
Entries 93
Mean 0.01285
Std Dev 0.9936

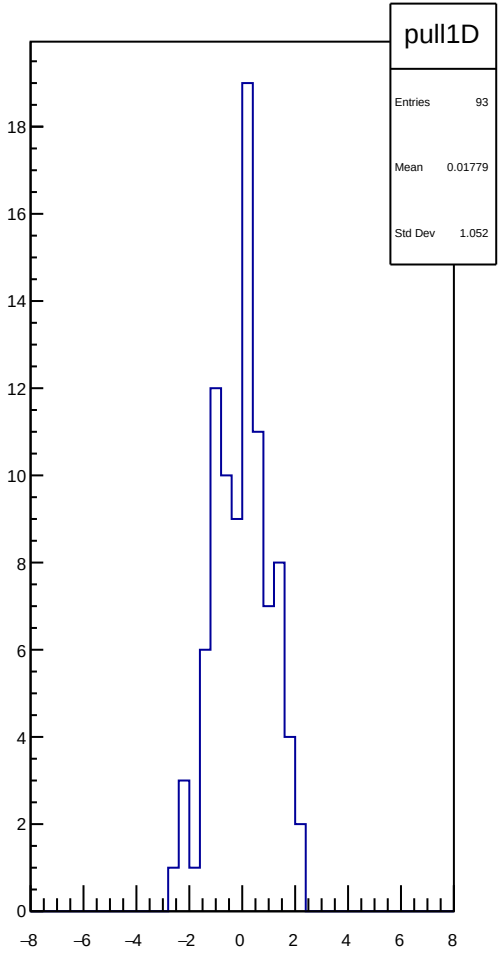

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.145e+05 / 92
p0 53.6 ± 0.04231
120
100
80
60
40
20

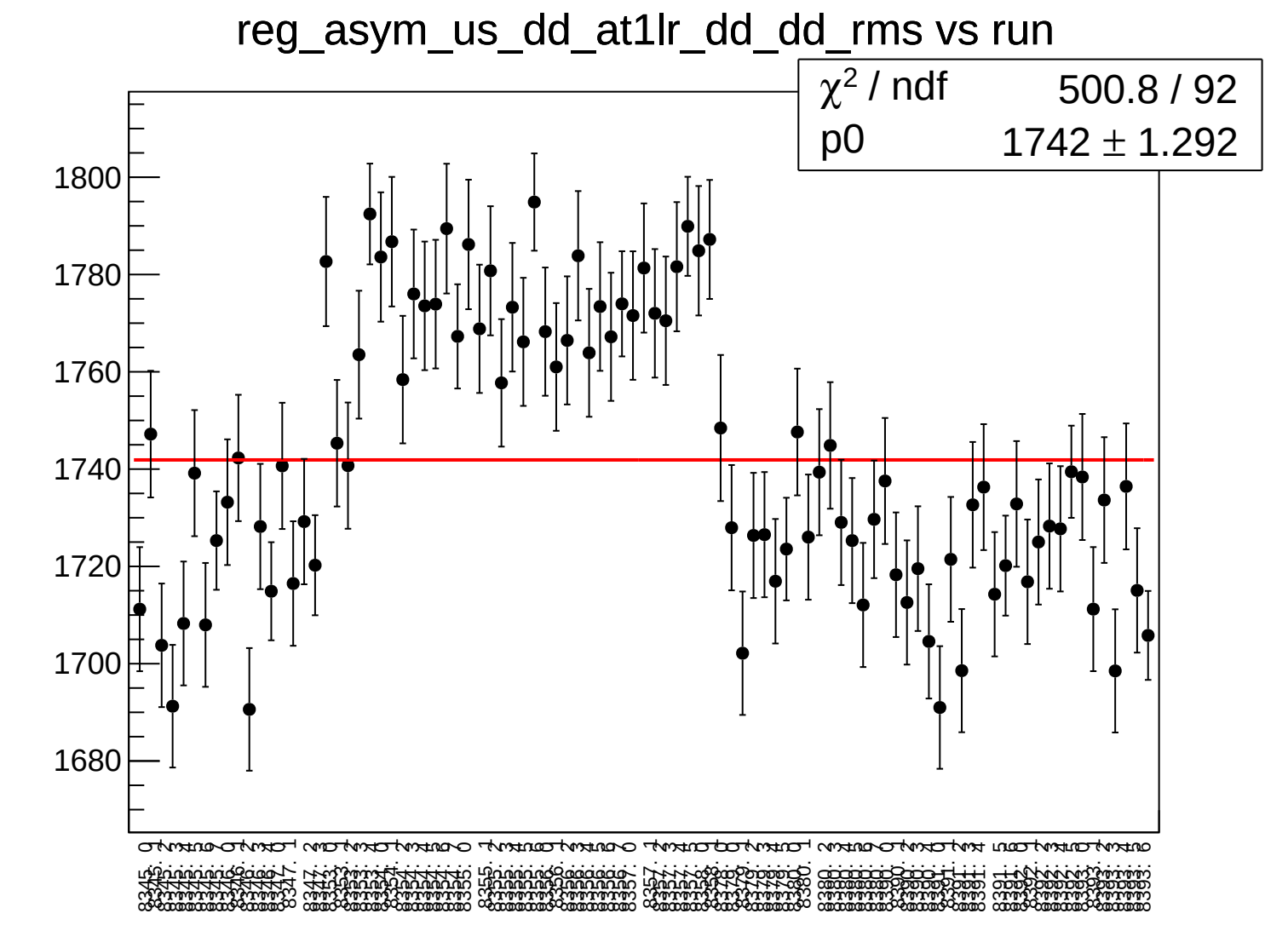

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 107.9 / 92
p0 1.588e−14 ± 1.027e−13
pull
Entries 93
Mean −76.2
Std Dev 0

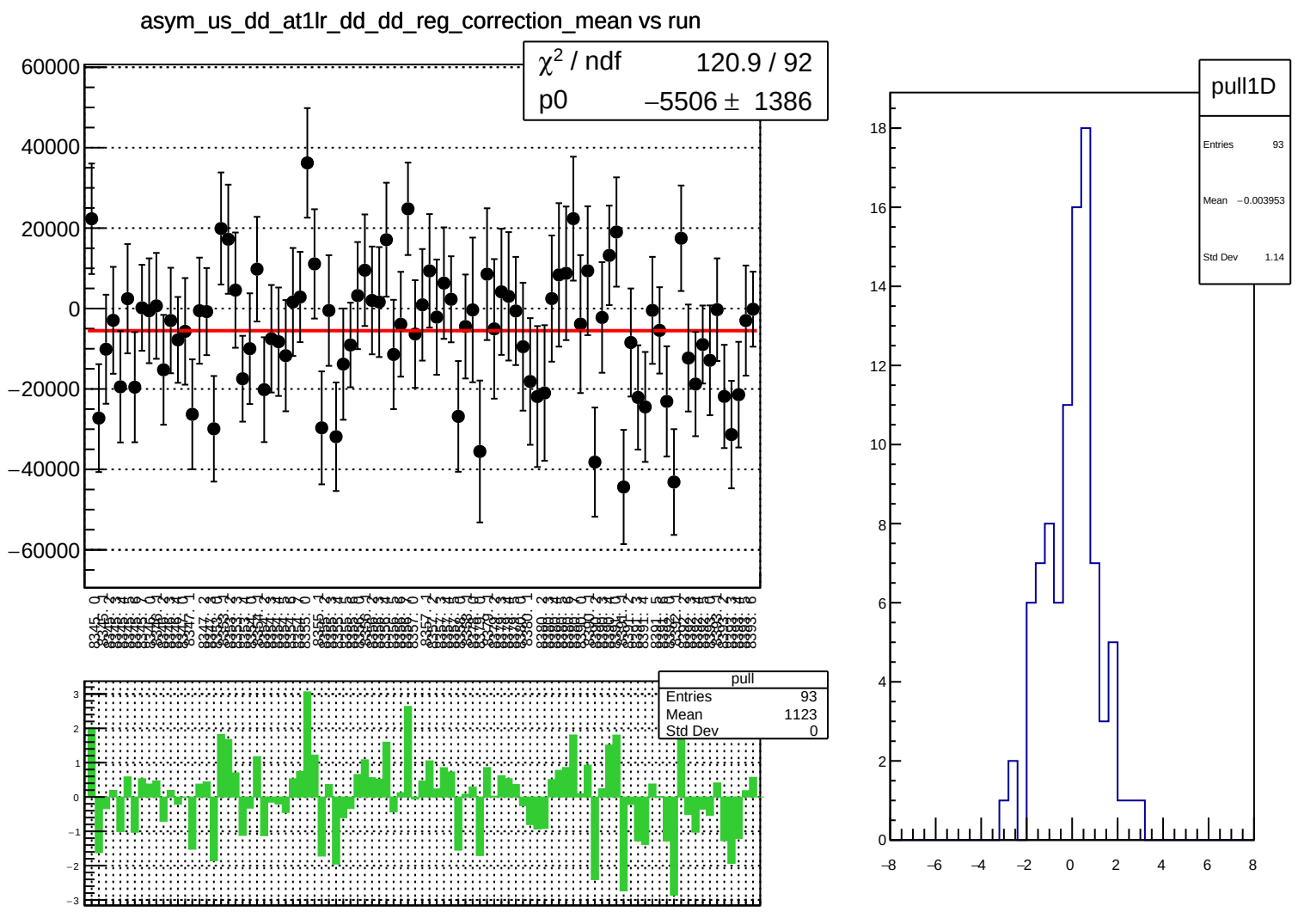

pull1D
Entries 93
Mean −0.01661
Std Dev 1.077

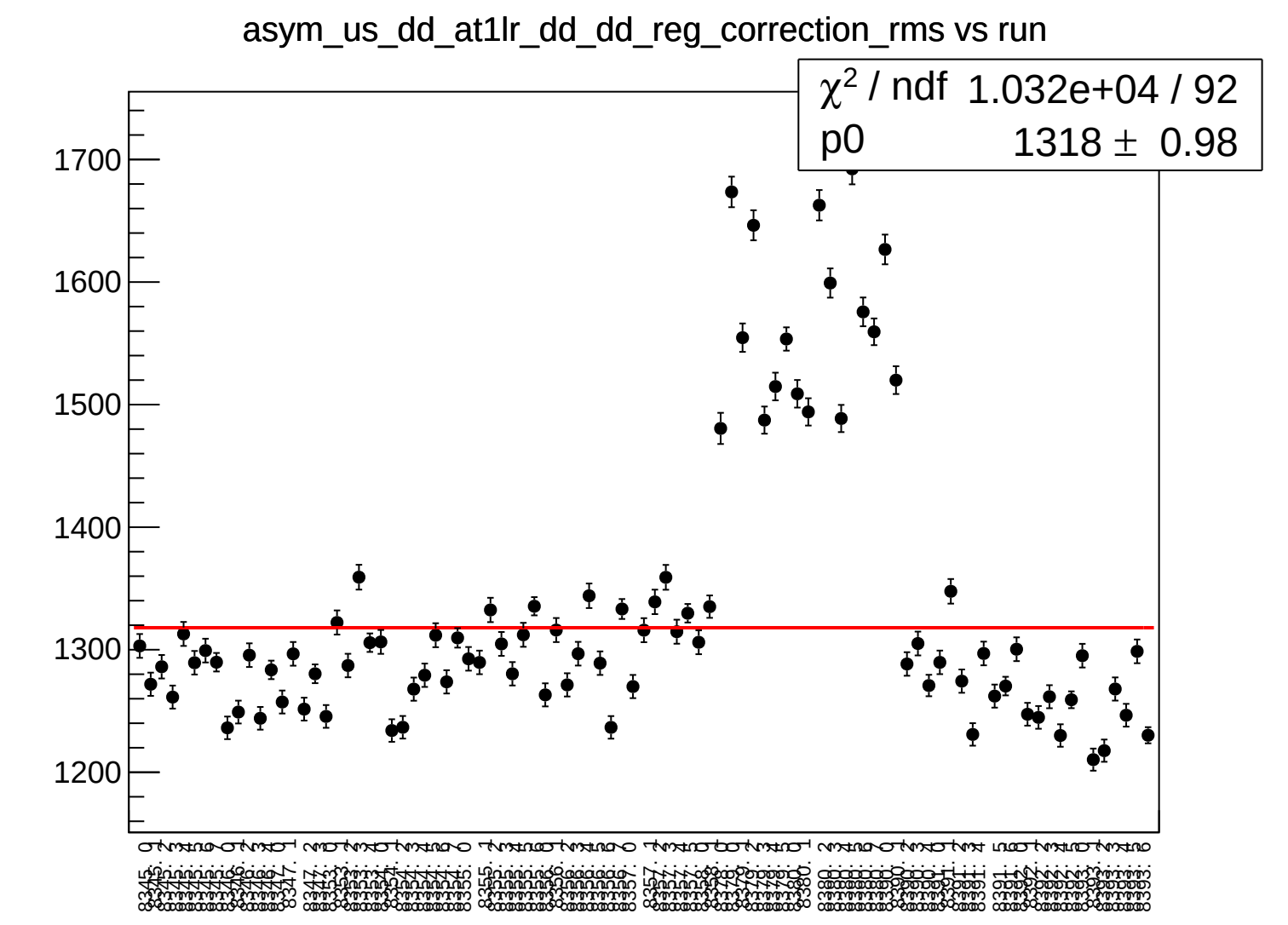

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.595e+05 / 92
p0 7.819e−11 ± 7.261e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

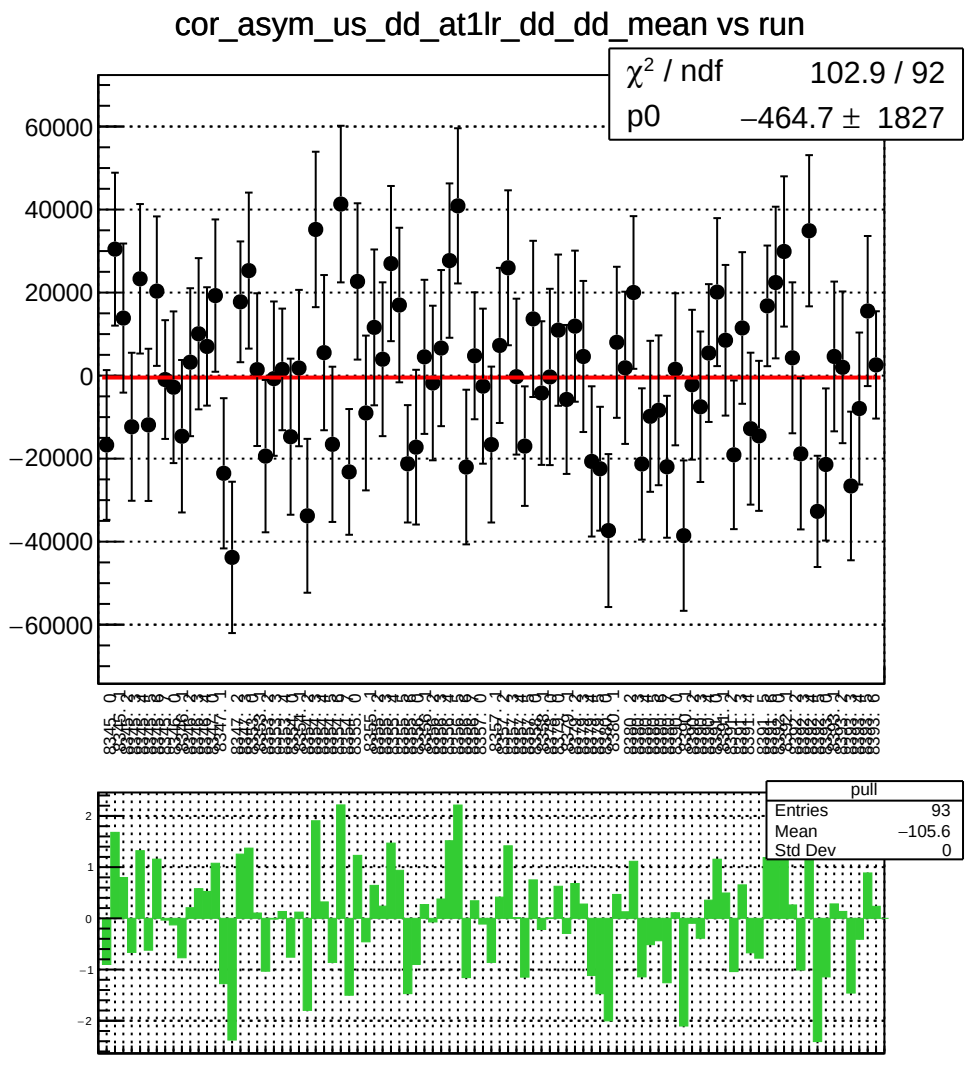

reg_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 102.9 / 92
p0 −464.4 ± 1827
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −105.6
Std Dev 0
2
1
0
−1
−2

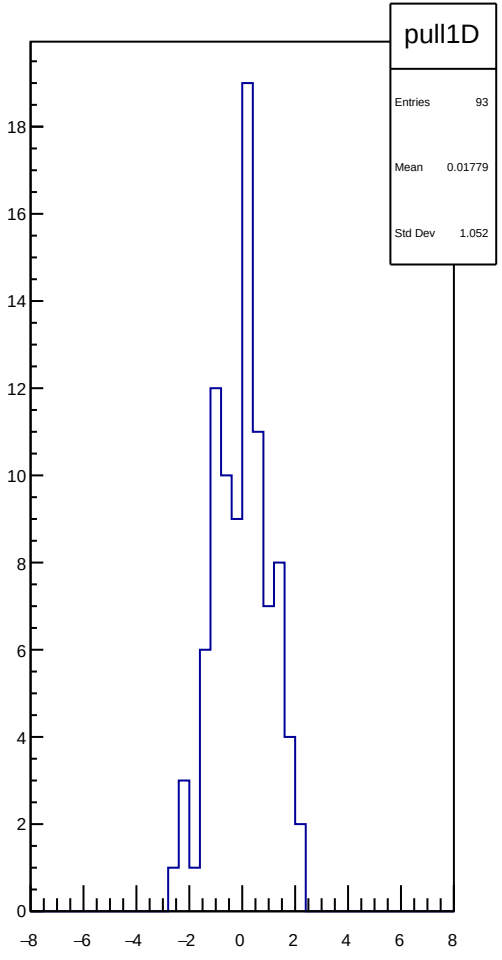

pull1D
Entries 93
Mean 0.01779
Std Dev 1.052
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

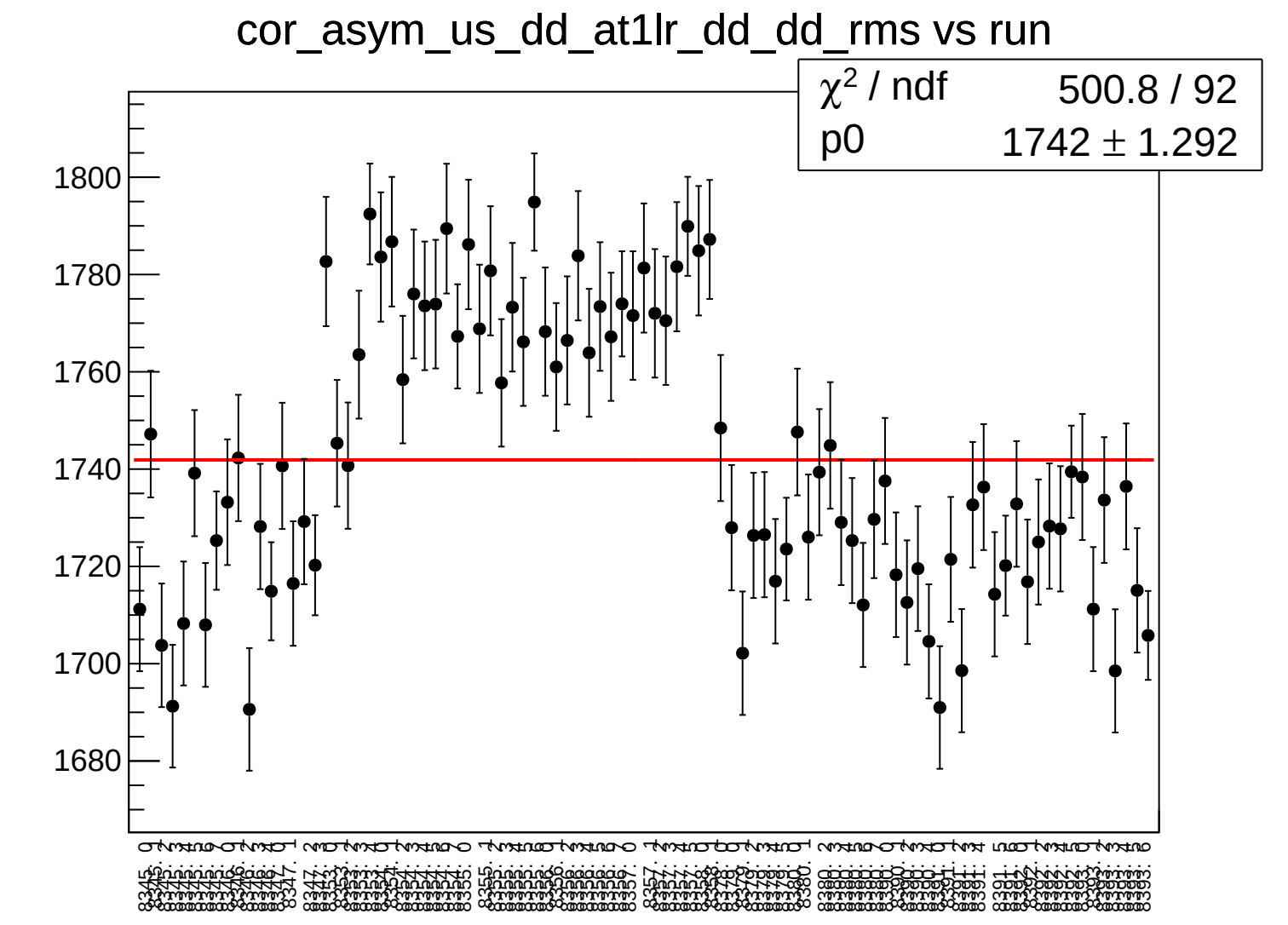

reg_asym_us_dd_at1lr_dd_dd_rms vs run
χ^2 / ndf 500.8 / 92
p0 1742 ± 1.292
1800
1780
1760
1740
1720
1700
1680

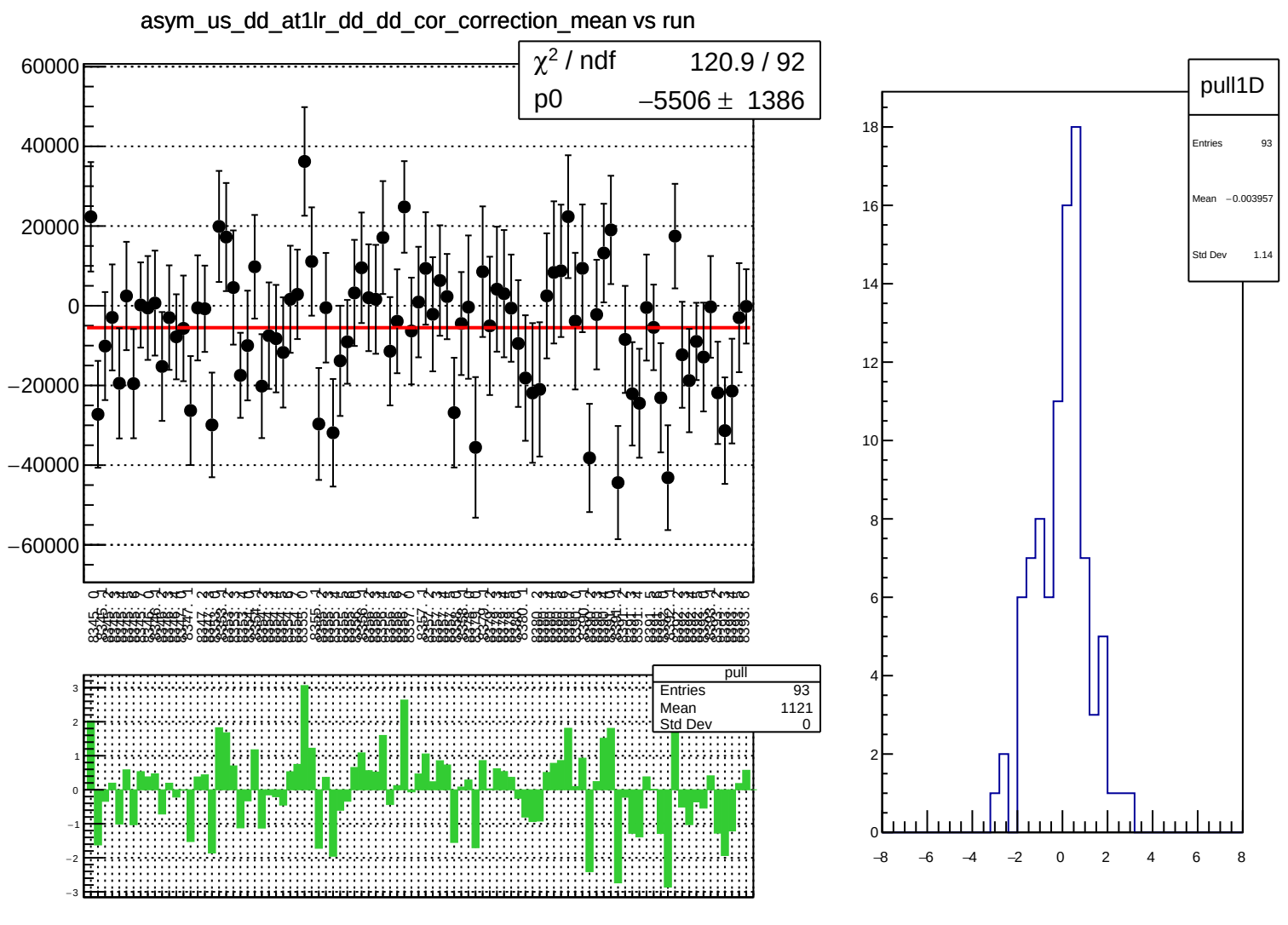

asym_us_dd_at1lr_dd_dd_reg_correction_mean vs run
χ² / ndf 120.9 / 92
p0 −5506 ± 1386
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 1123
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.003953
Std Dev 1.14
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

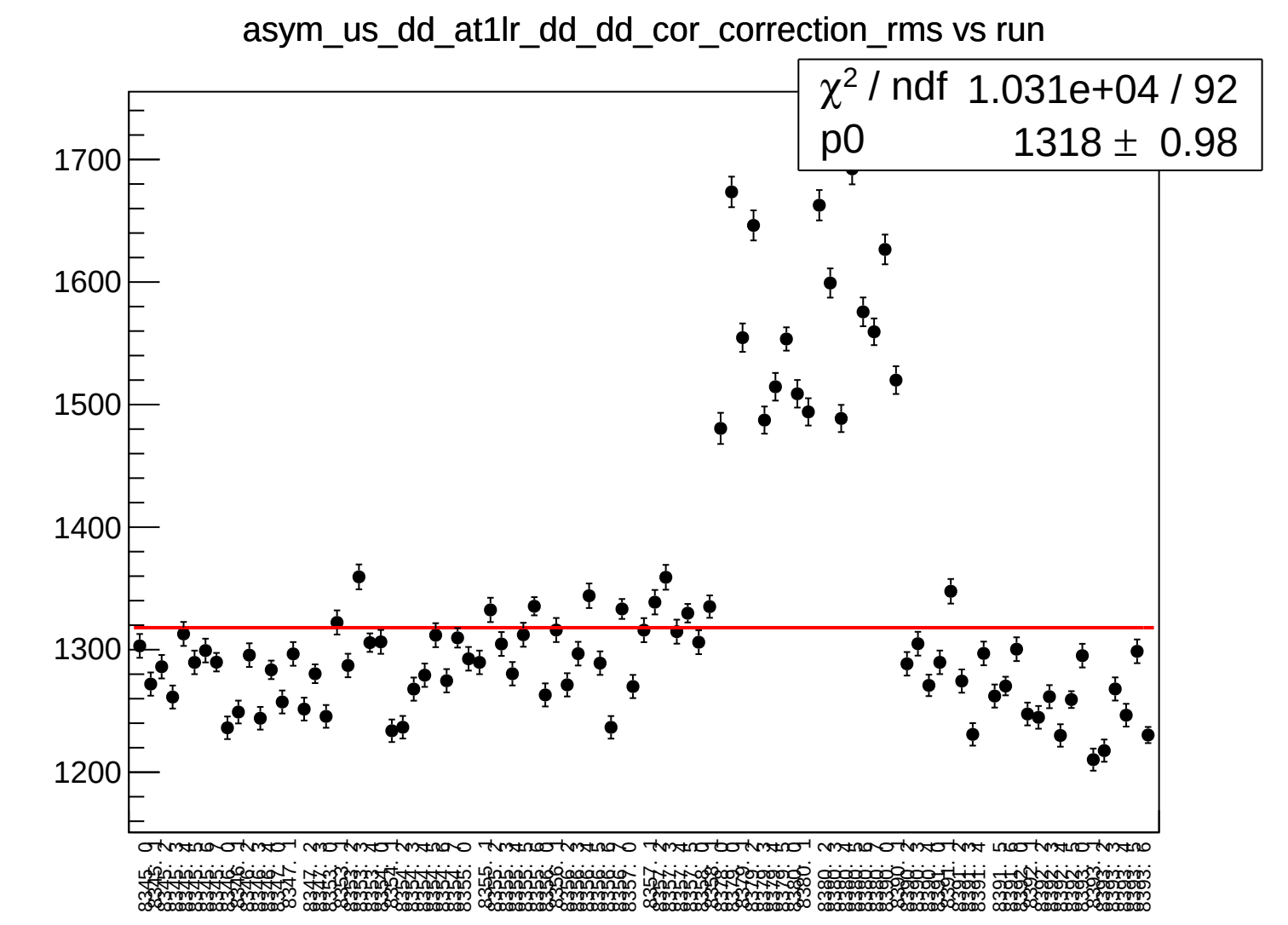

asym_us_dd_at1lr_dd_dd_reg_correction_rms vs run
χ² / ndf 1.032e+04 / 92
p0 1318 ± 0.98
1700
1600
1500
1400
1300
1200

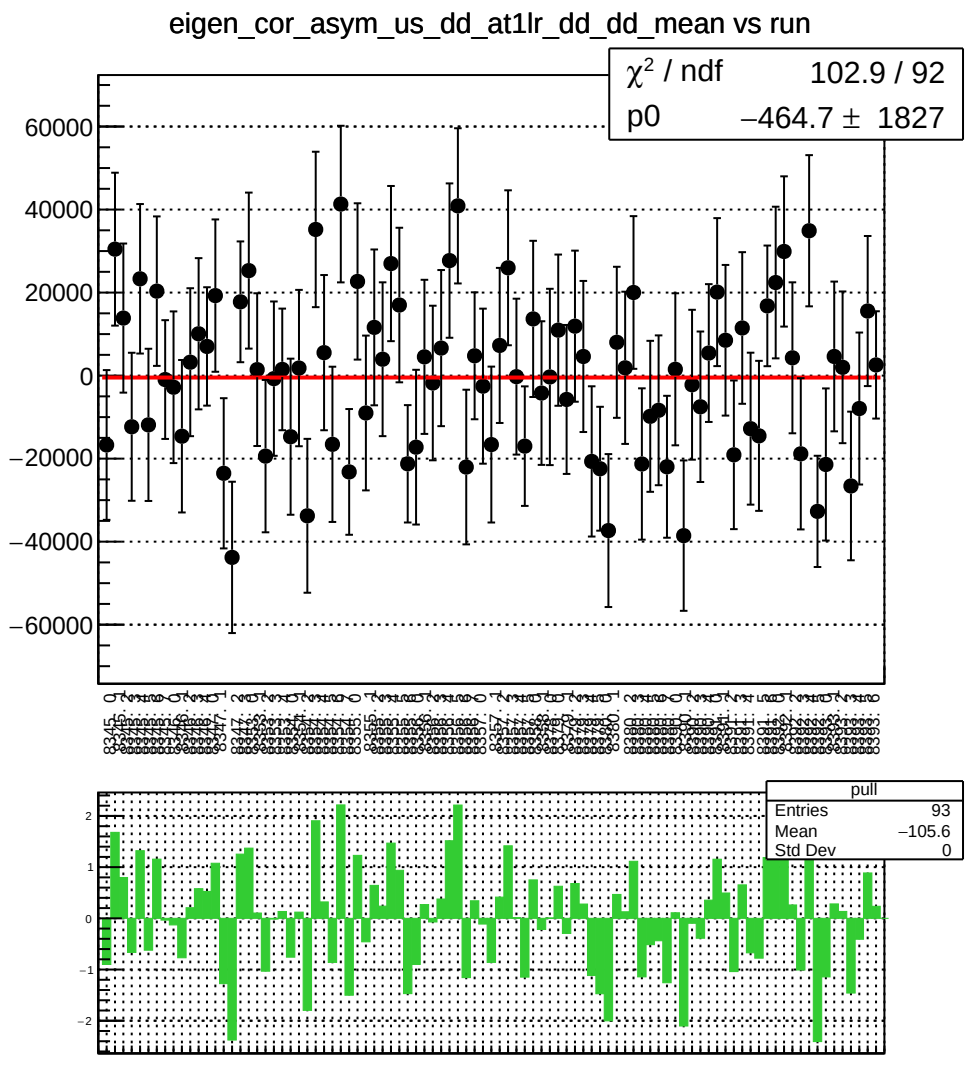

cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 102.9 / 92
p0 −464.7 ± 1827
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −105.6
Std Dev 0
2
1
0
−1
−2

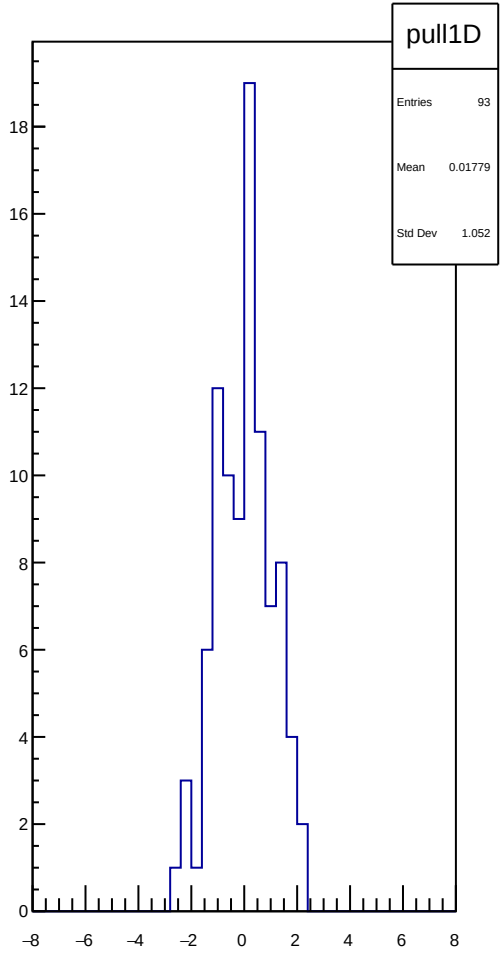

pull1D
Entries 93
Mean 0.01779
Std Dev 1.052
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

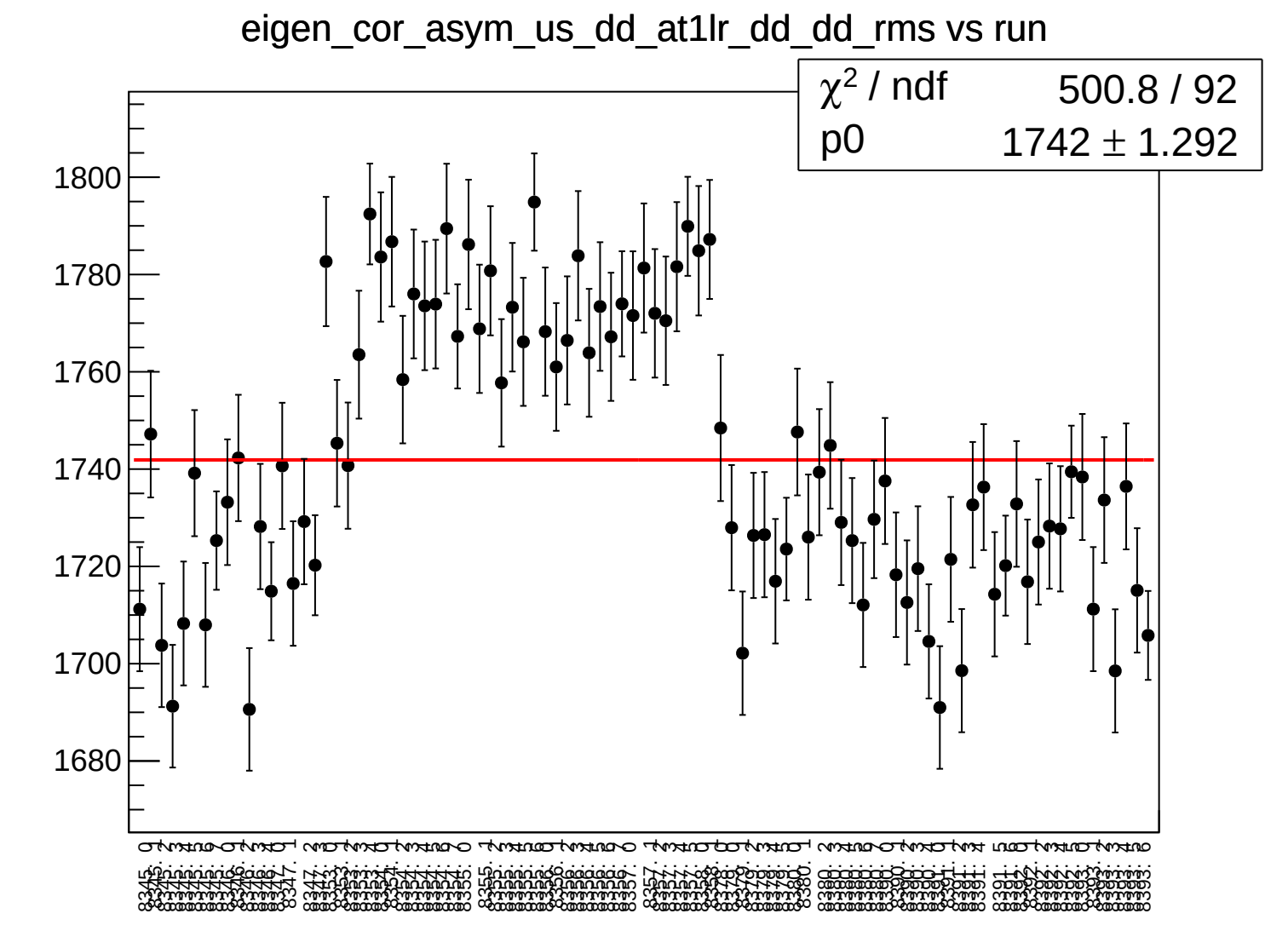

cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 500.8 / 92
p0 1742 ± 1.292
1800
1780
1760
1740
1720
1700
1680

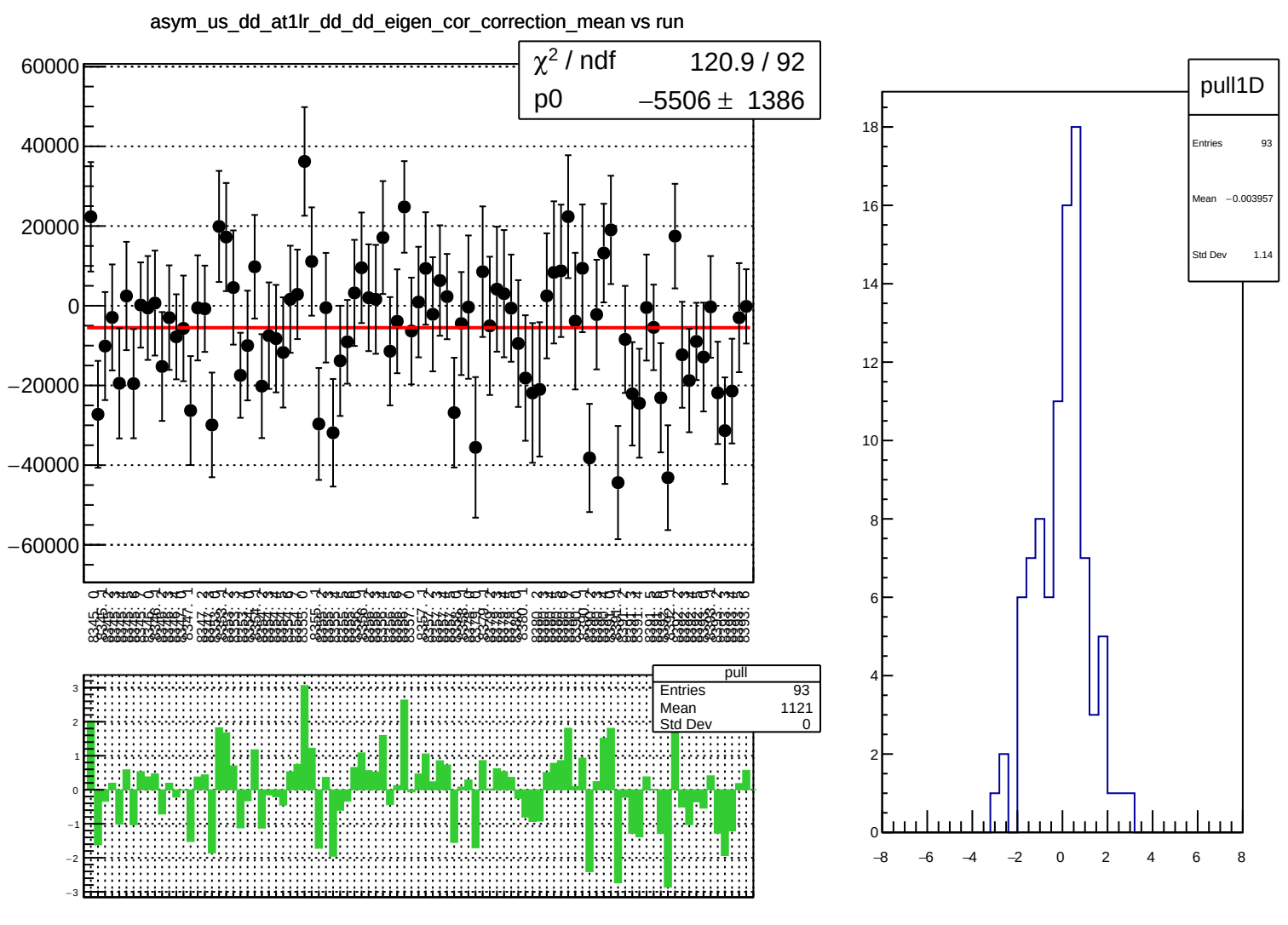

asym_us_dd_at1lr_dd_dd_cor_correction_mean vs run
χ² / ndf 120.9 / 92
p0 −5506 ± 1386
pull
Entries 93
Mean 1121
Std Dev 0
pull1D
Entries 93
Mean −0.003957
Std Dev 1.14

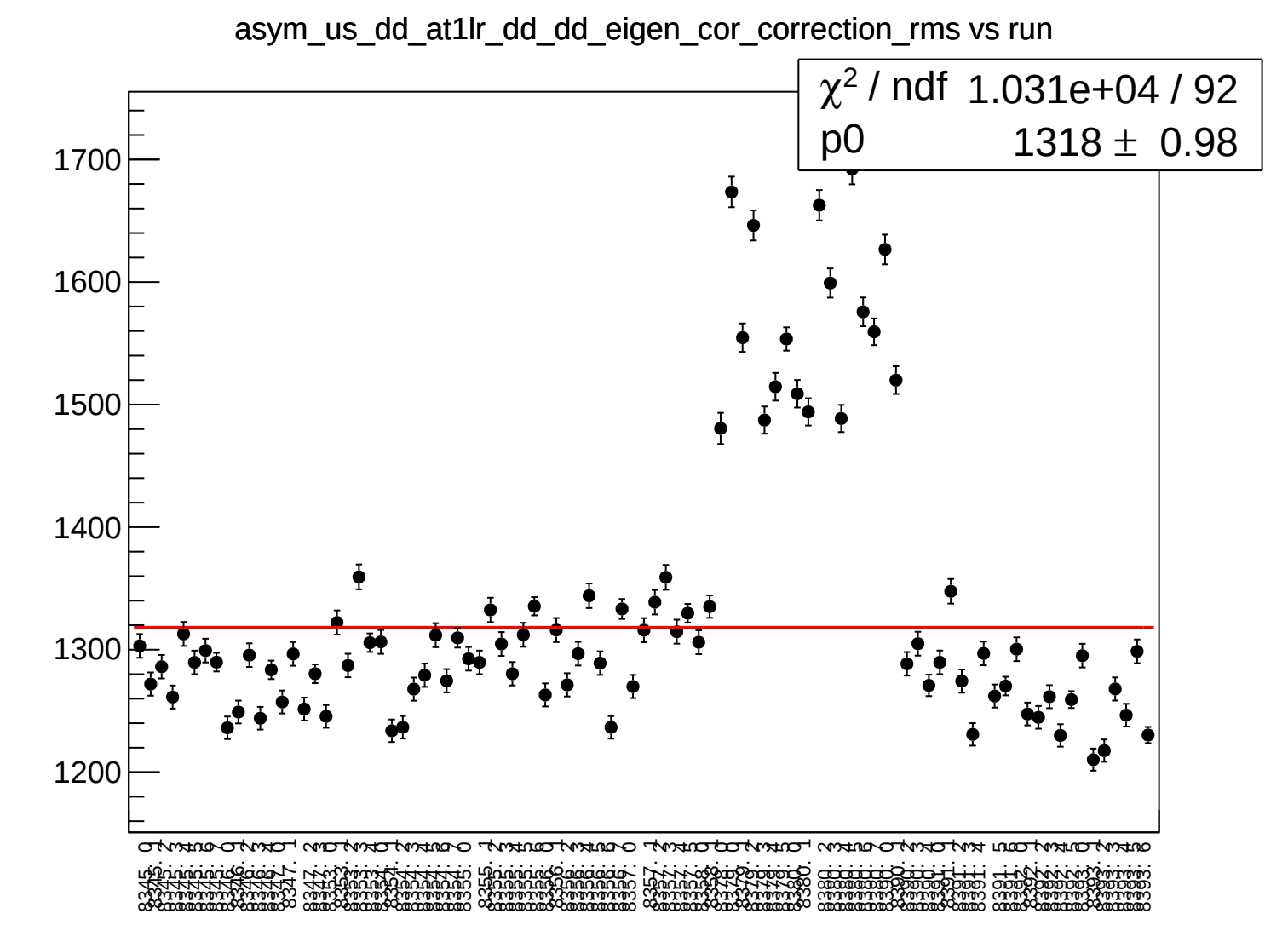

asym_us_dd_at1lr_dd_dd_cor_correction_rms vs run
χ² / ndf 1.031e+04 / 92
p0 1318 ± 0.98
1700
1600
1500
1400
1300
1200

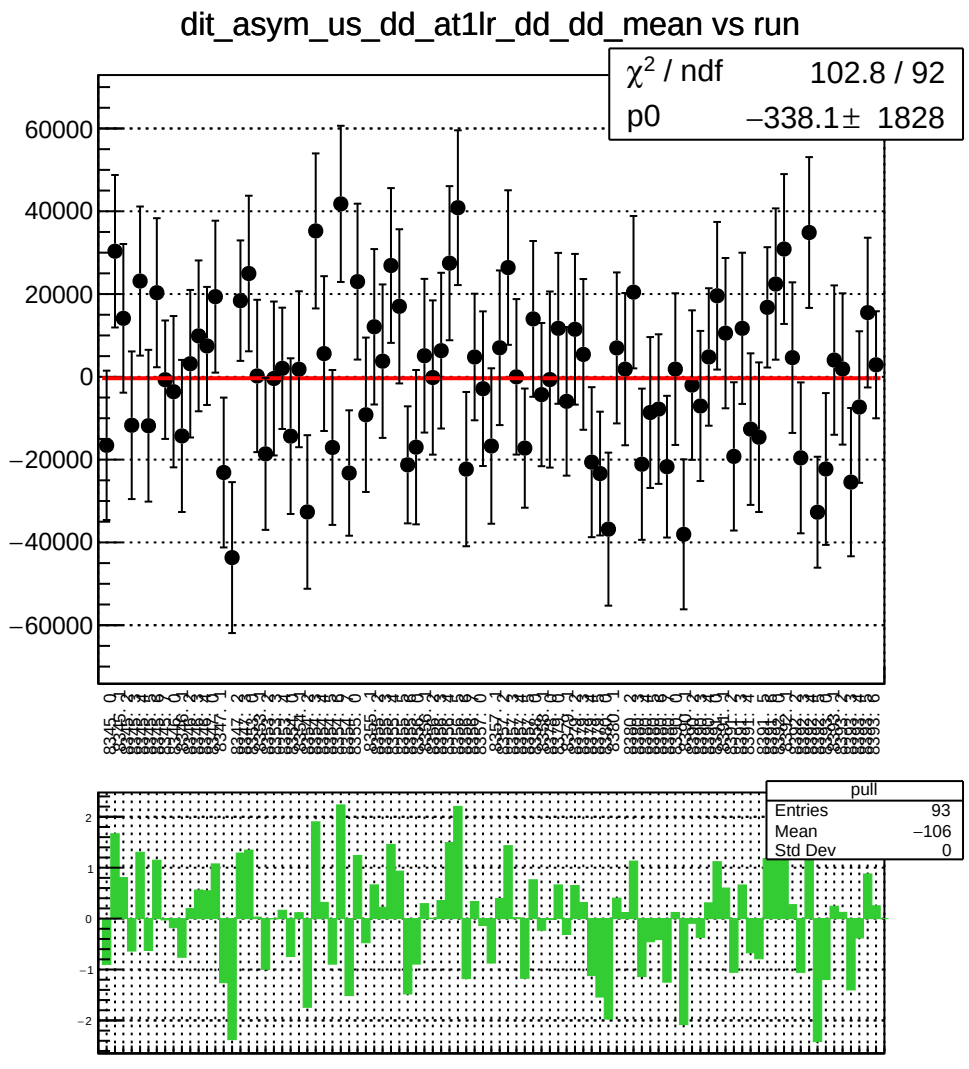

eigen_cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 102.9 / 92
p0 −464.7 ± 1827
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −105.6
Std Dev 0
2
1
0
−1
−2

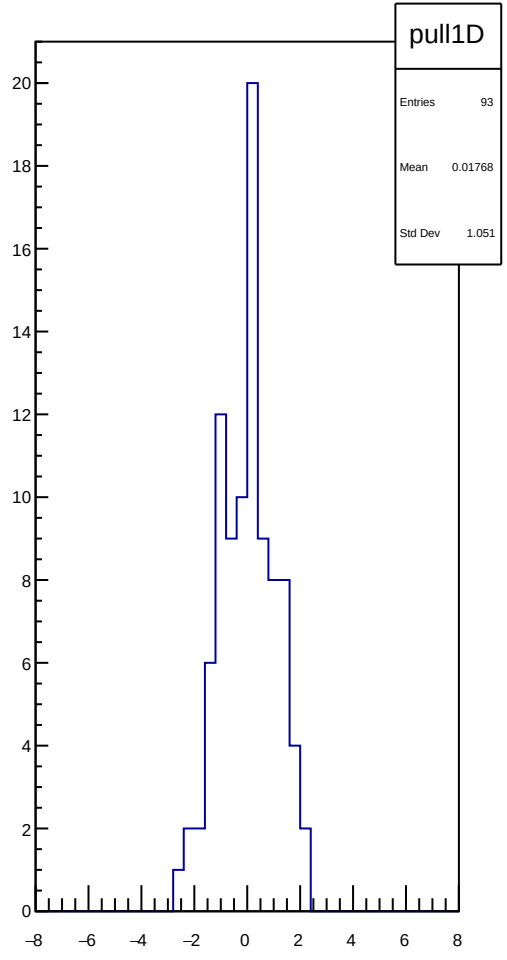

pull1D
Entries 93
Mean 0.01779
Std Dev 1.052
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

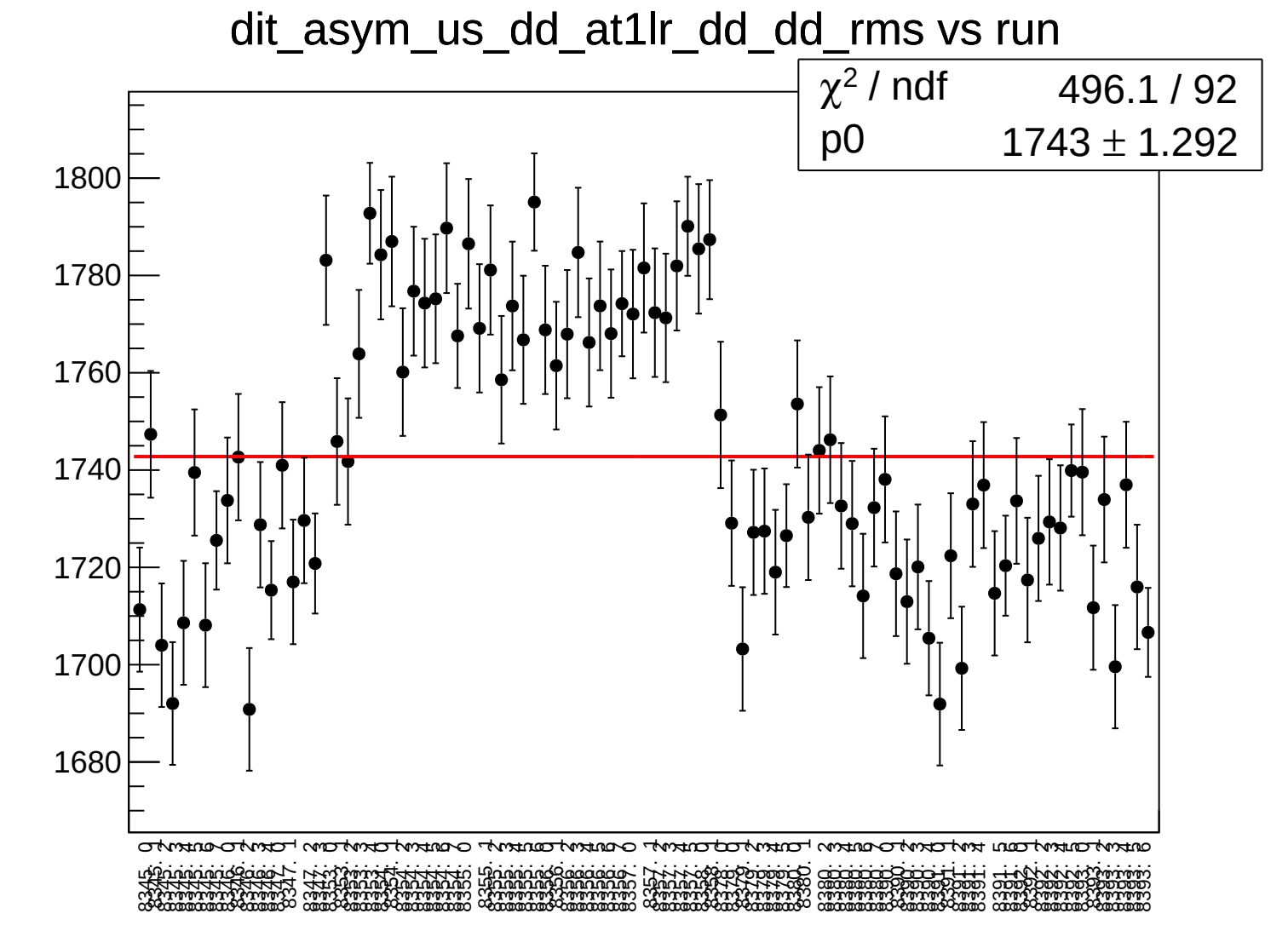

eigen_cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ^2 / ndf 500.8 / 92
p0 1742 ± 1.292
1800
1780
1760
1740
1720
1700
1680

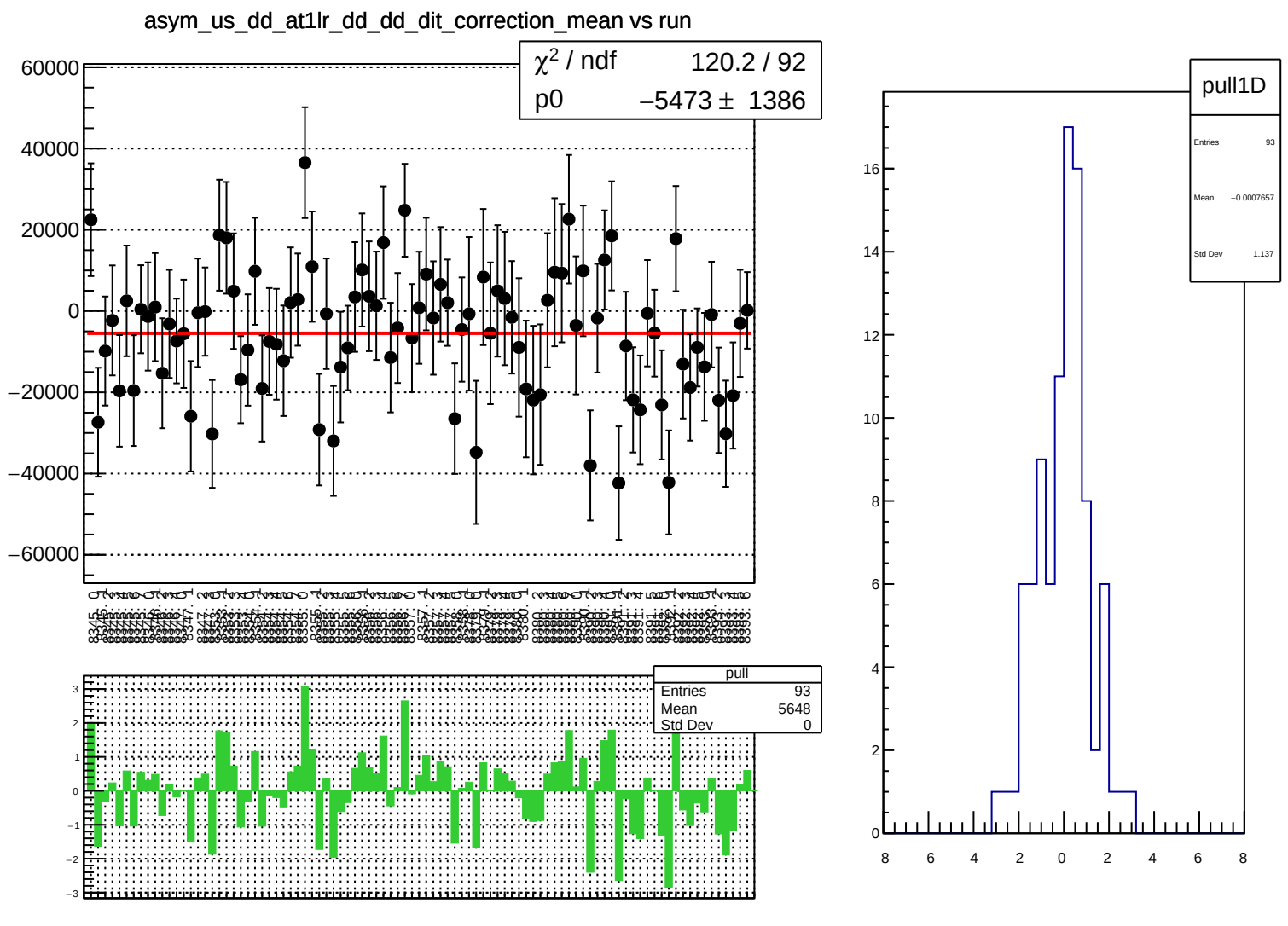

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 120.9 / 92
p0 −5506 ± 1386
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 1121
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.003957
Std Dev 1.14
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

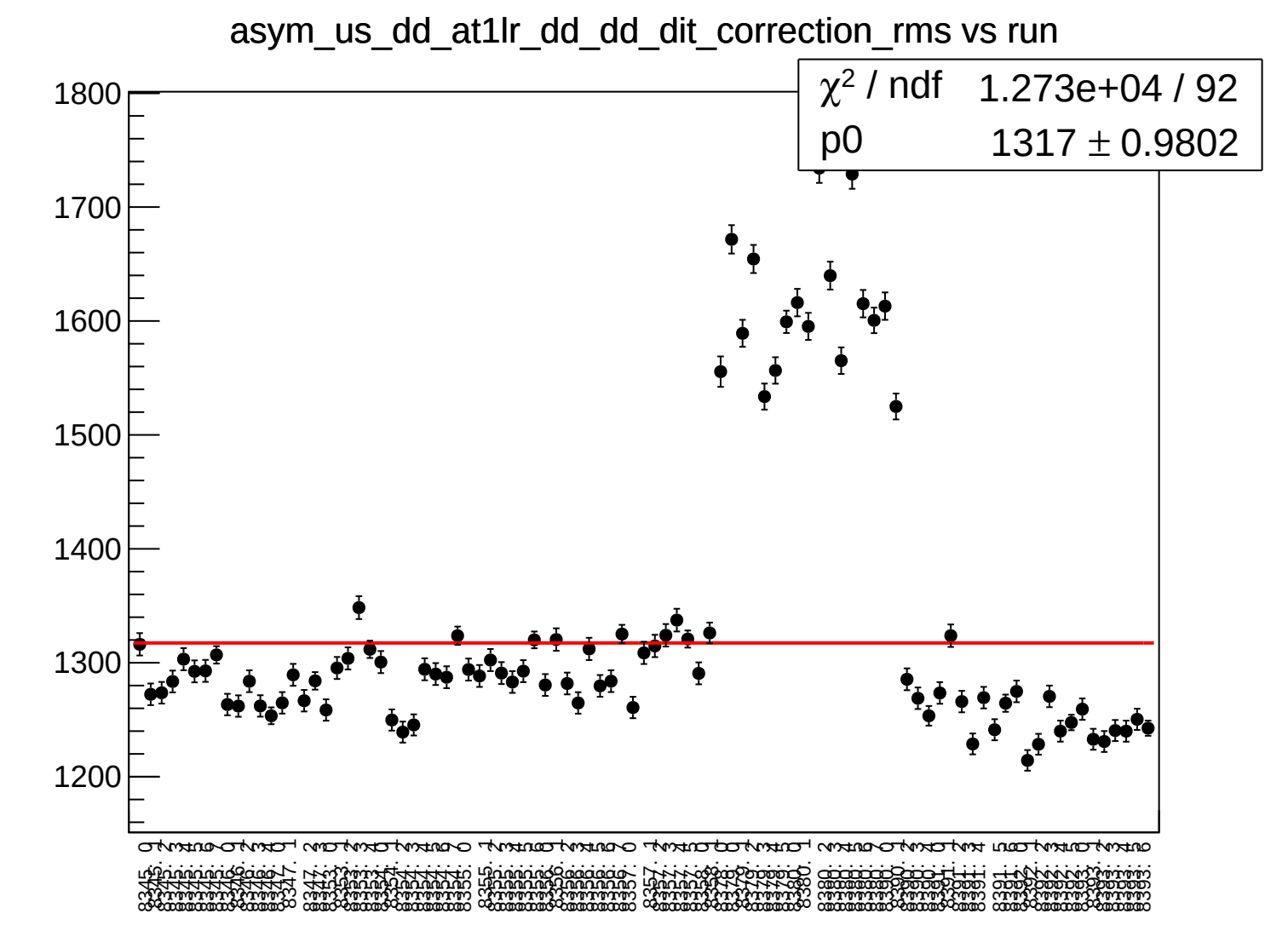

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.031e+04 / 92
p0 1318 ± 0.98
1700
1600
1500
1400
1300
1200

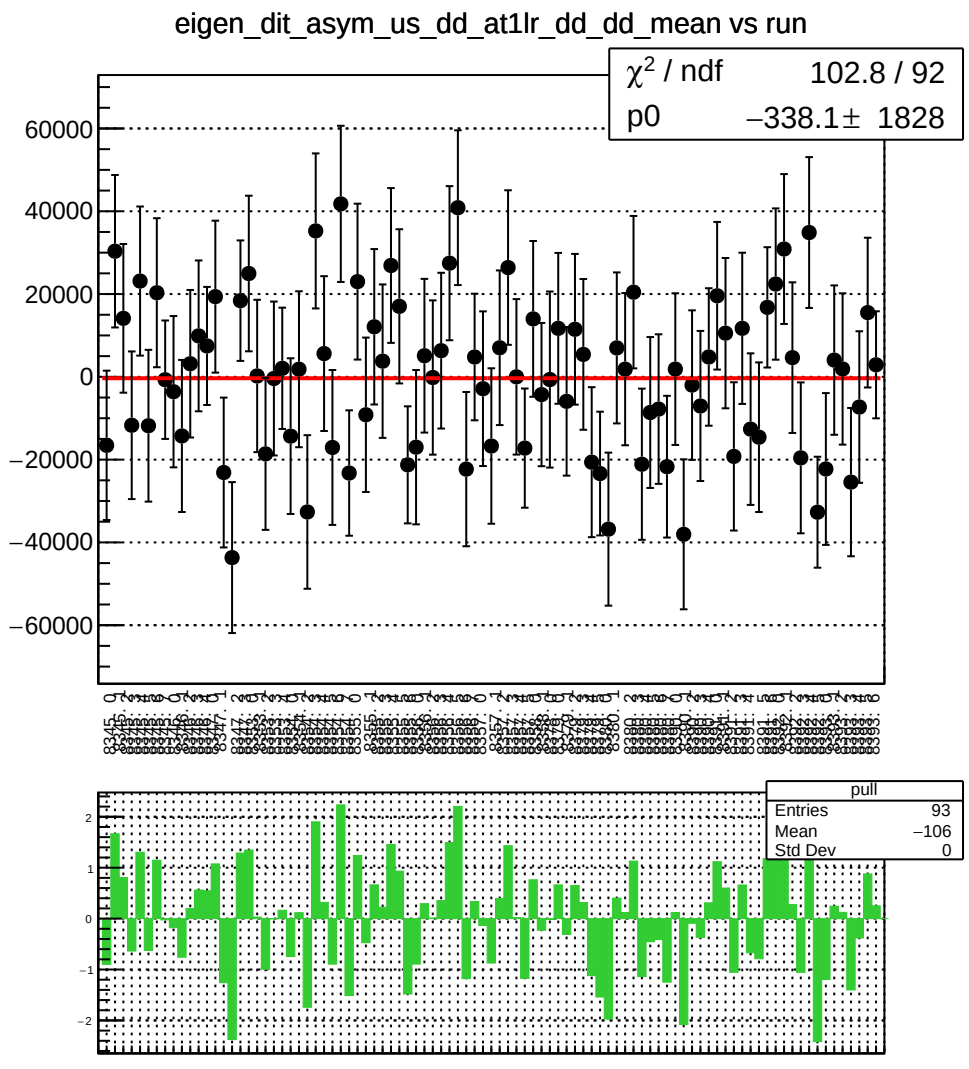

dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 102.8 / 92
p0 −338.1± 1828
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −106
Std Dev 0
2
1
0
−1
−2

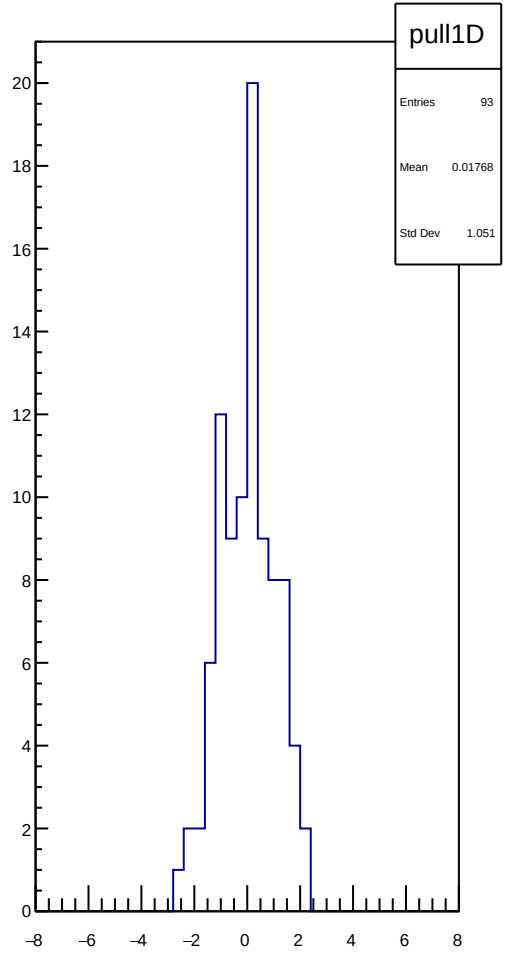

pull1D
Entries 93
Mean 0.01768
Std Dev 1.051
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

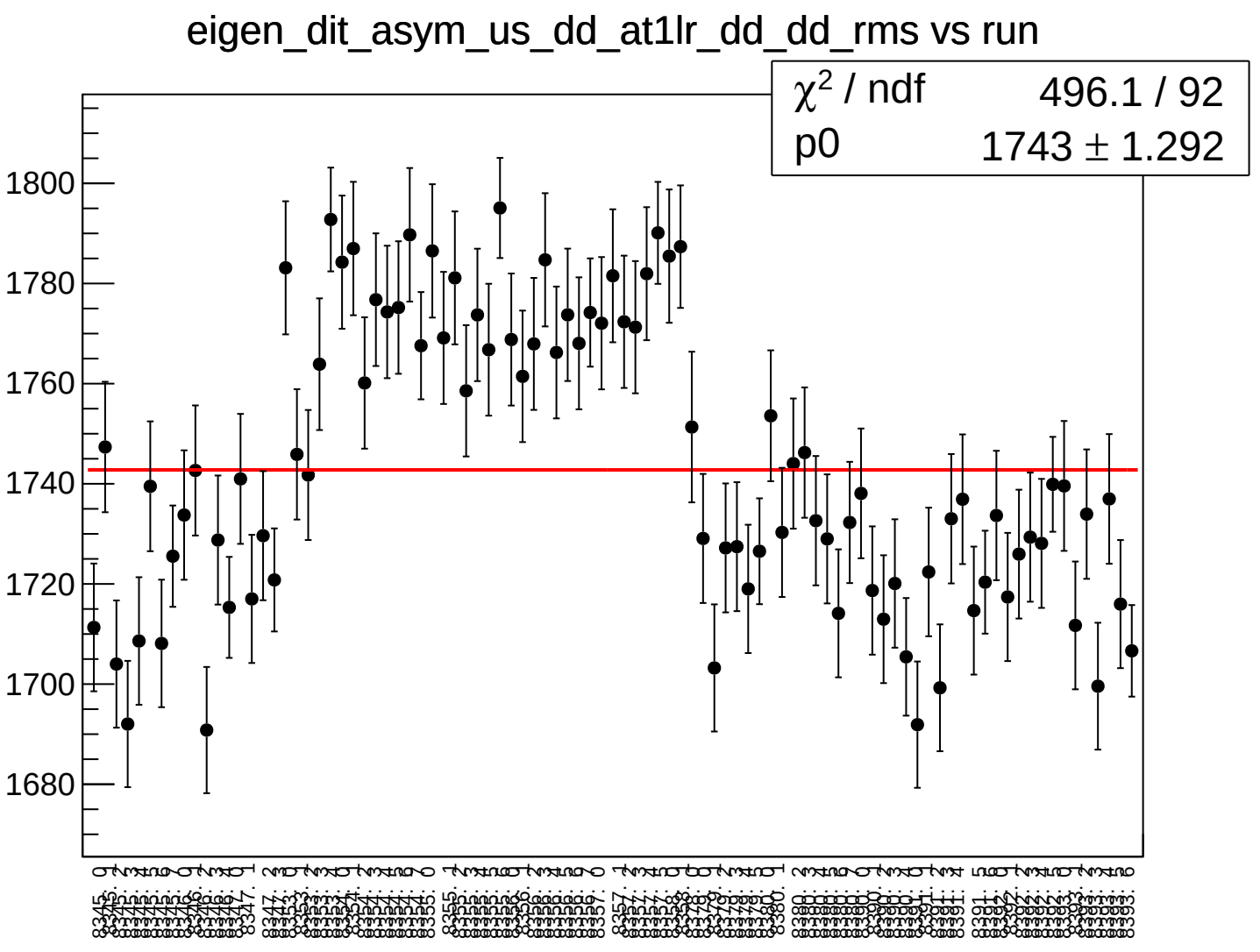

dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 496.1 / 92
p0 1743 ± 1.292
1800
1780
1760
1740
1720
1700
1680

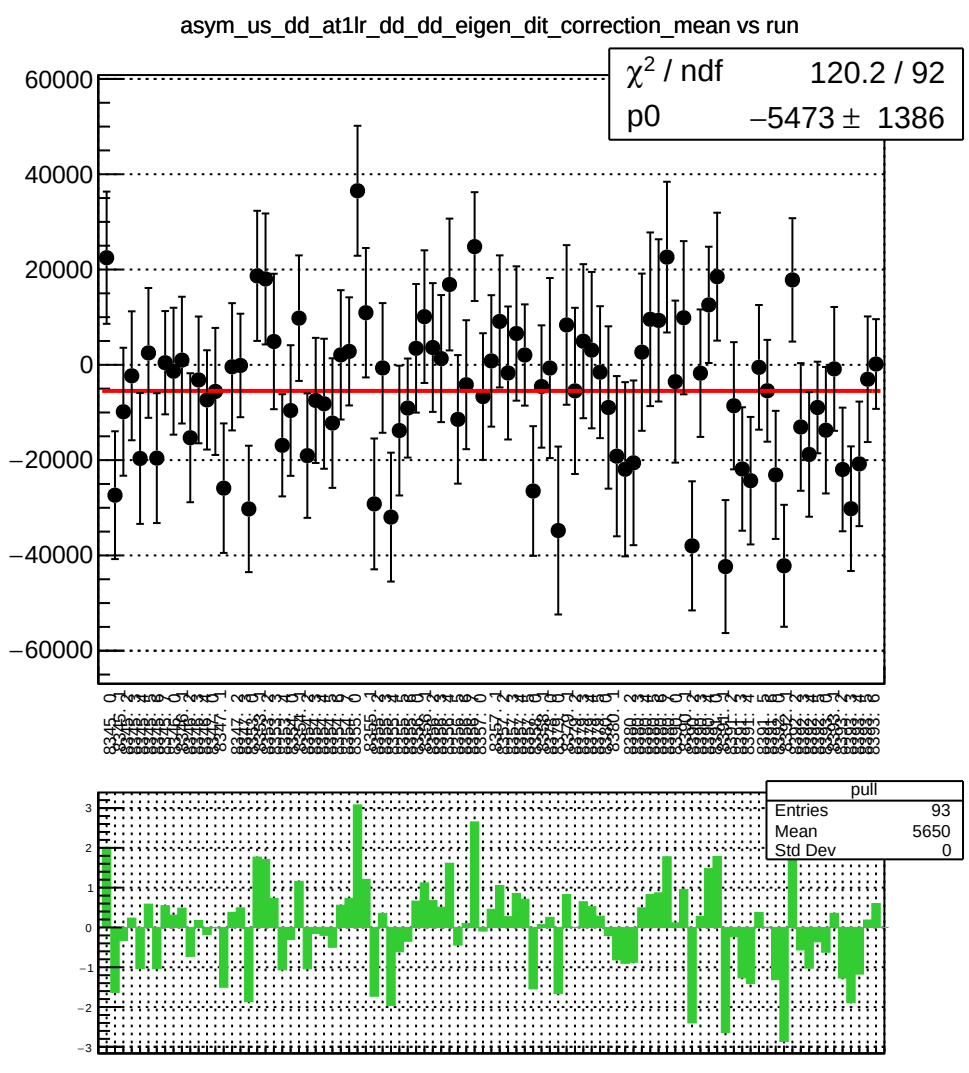

asym_us_dd_at1lr_dd_dd_dit_correction_mean vs run
χ² / ndf 120.2 / 92
p0 −5473 ± 1386
pull
Entries 93
Mean 5648
Std Dev 0
pull1D
Entries 93
Mean −0.0007657
Std Dev 1.137

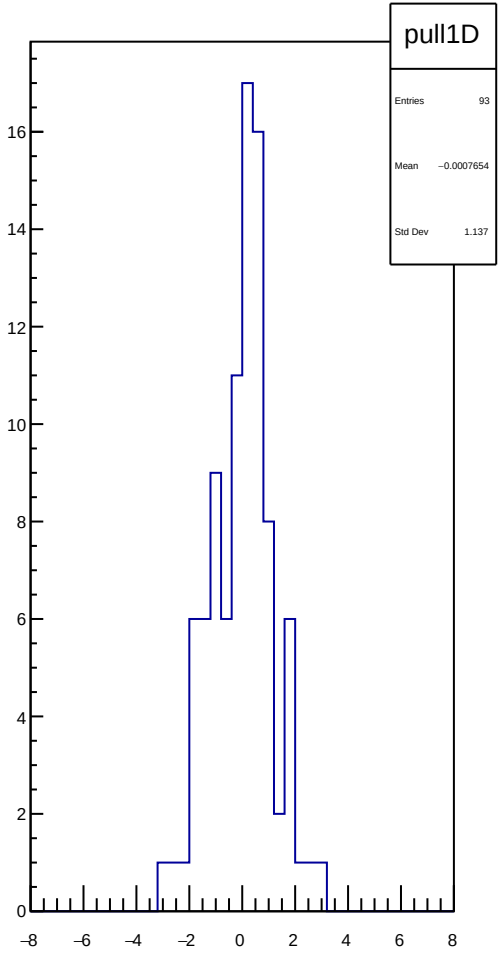

asym_us_dd_at1lr_dd_dd_dit_correction_rms vs run
χ² / ndf 1.273e+04 / 92
p0 1317 ± 0.9802
1800
1700
1600
1500
1400
1300
1200

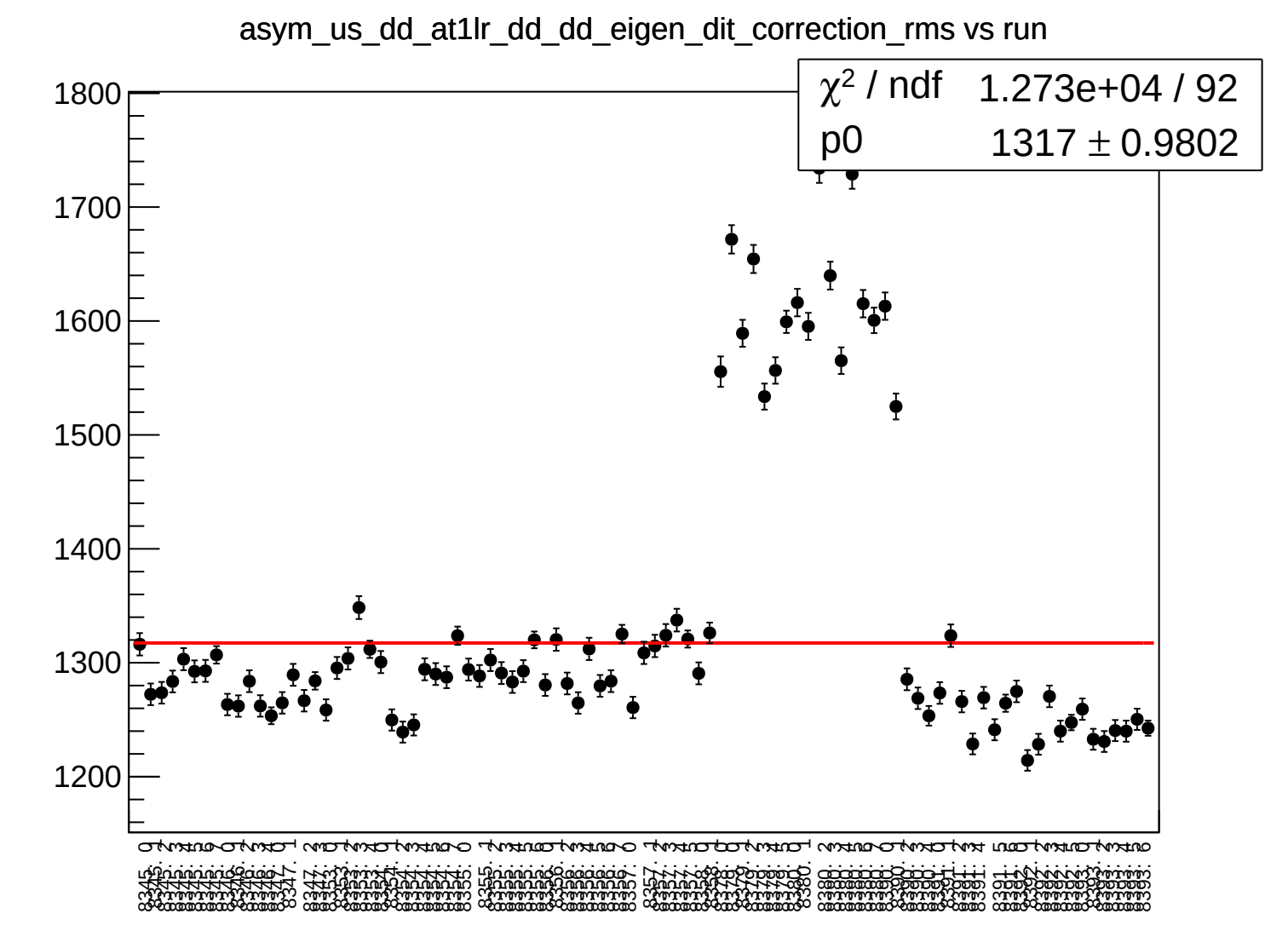

eigen_dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 102.8 / 92
p0 −338.1± 1828
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −106
Std Dev 0
2
1
0
−1
−2

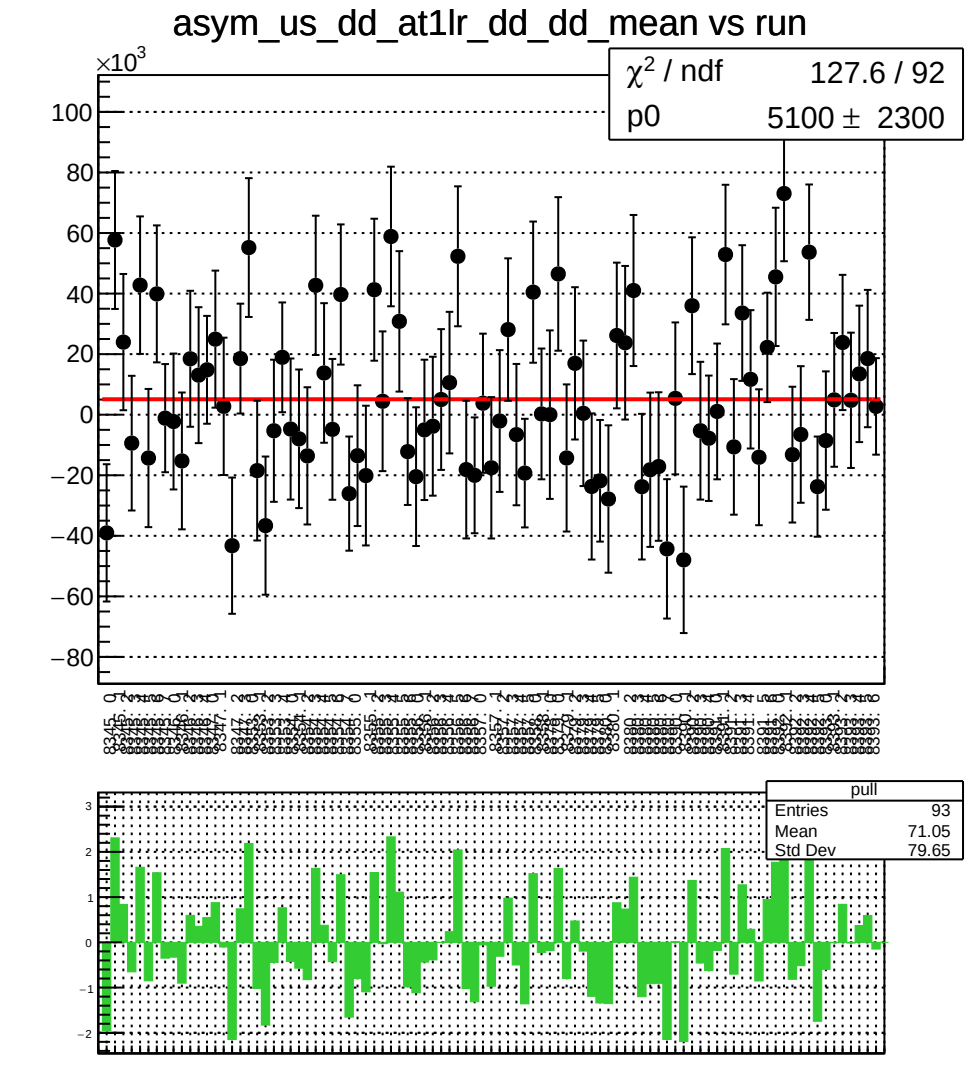

pull1D
Entries 93
Mean 0.01768
Std Dev 1.051
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

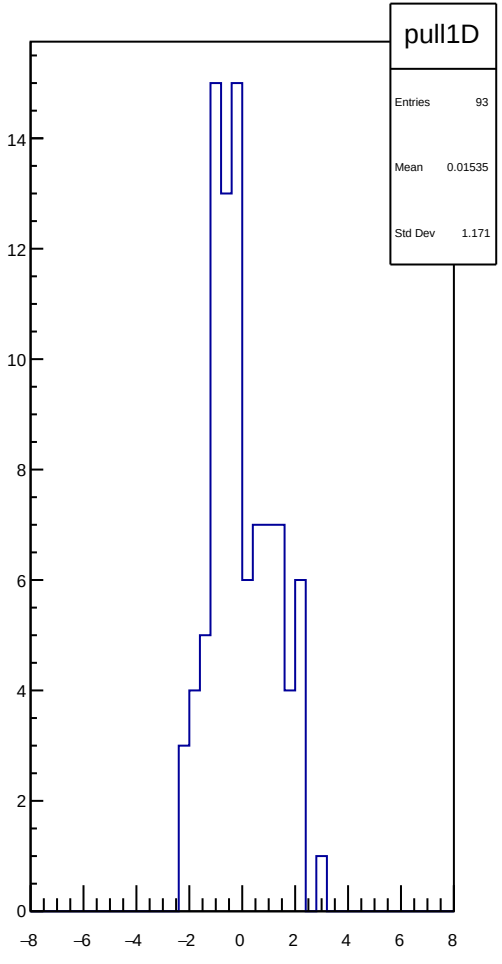

eigen_dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 496.1 / 92
p0 1743 ± 1.292
1800
1780
1760
1740
1720
1700
1680

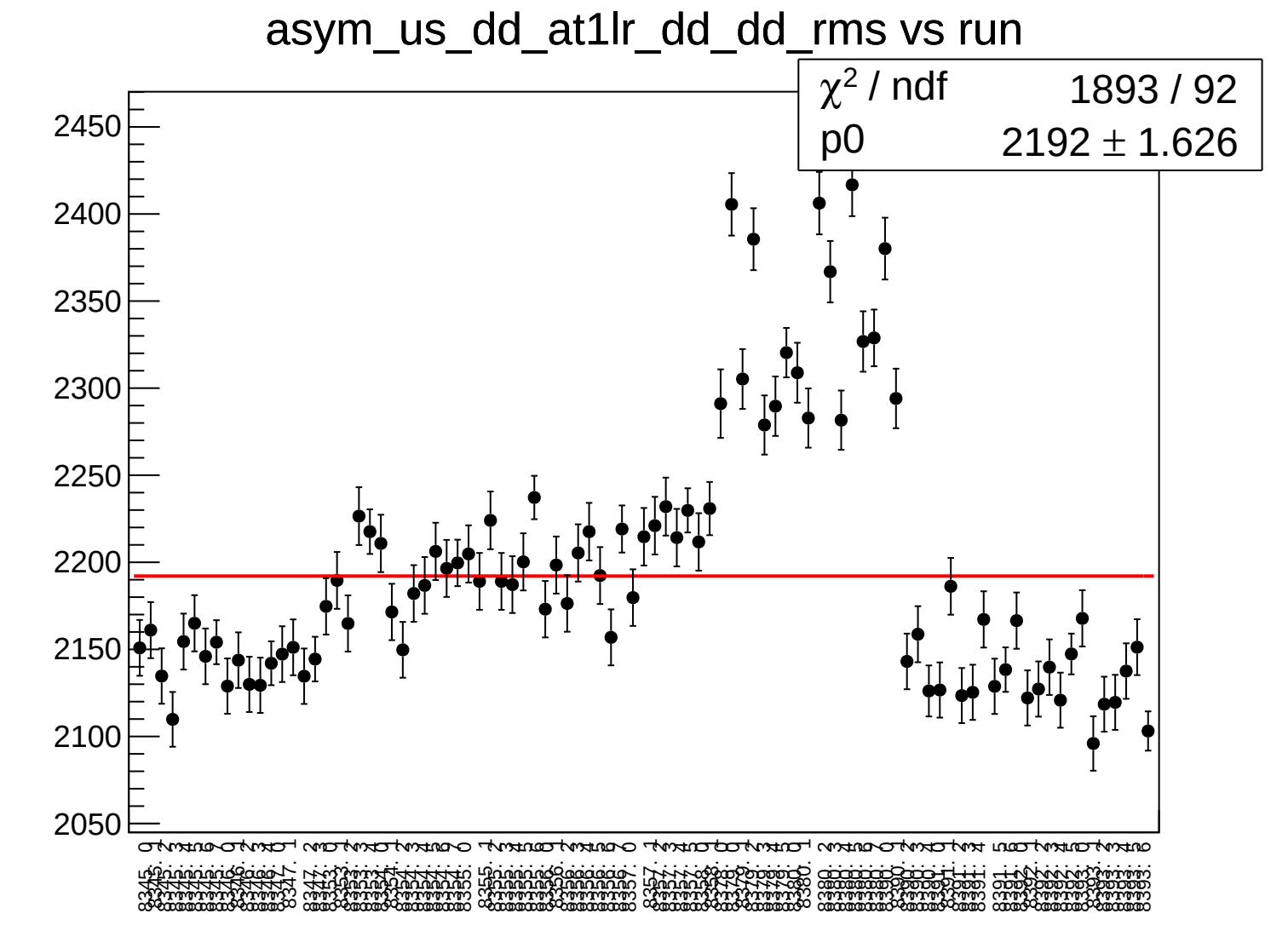

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 120.2 / 92
p0 −5473 ± 1386
pull
Entries 93
Mean 5650
Std Dev 0

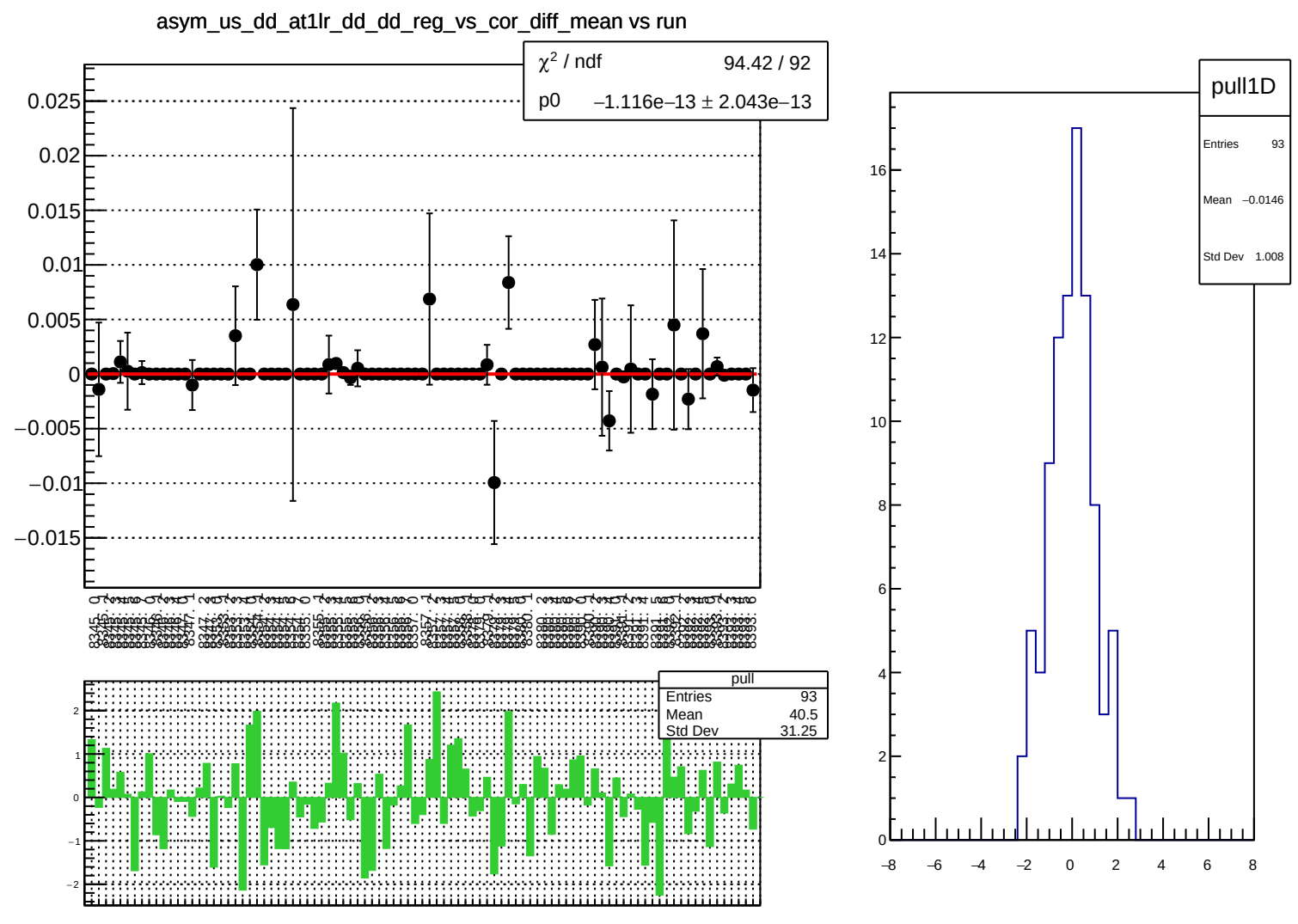

pull1D
Entries 93
Mean −0.0007654
Std Dev 1.137

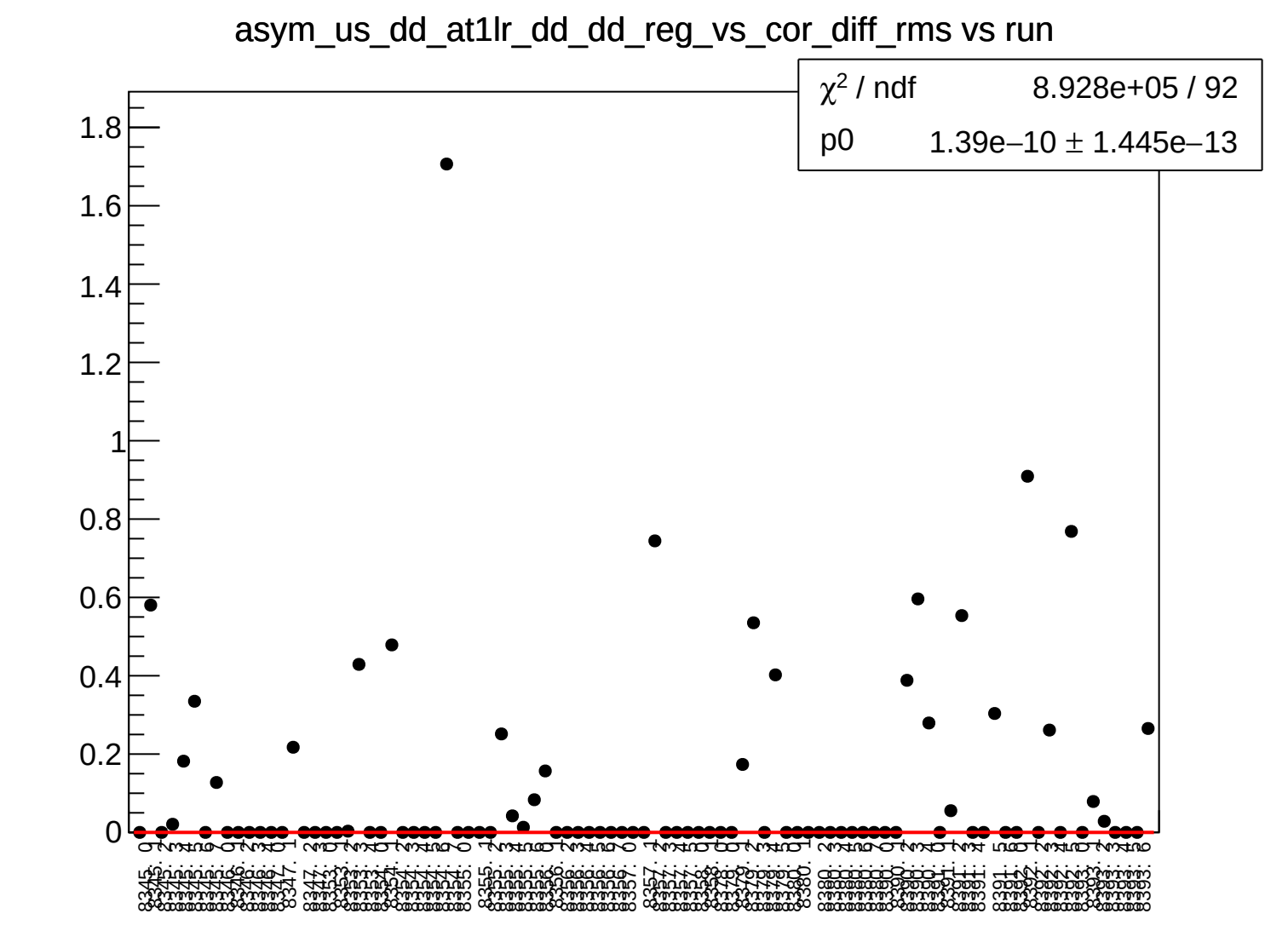

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.273e+04 / 92
p0 1317 ± 0.9802
1800
1700
1600
1500
1400
1300
1200

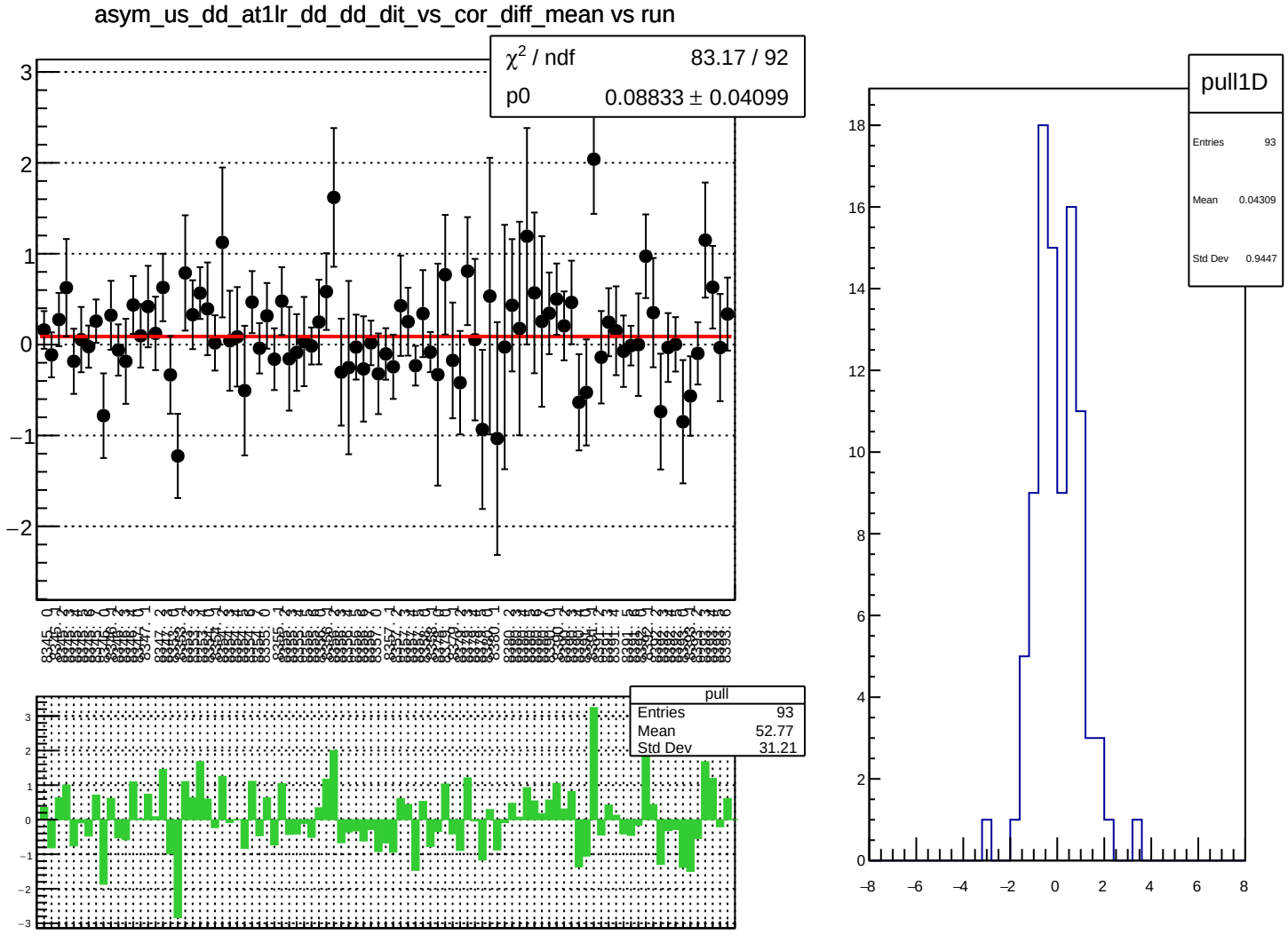

asym_us_dd_at1lr_dd_dd_mean vs run
×10^3
χ² / ndf 127.6 / 92
p0 5100 ± 2300
pull
Entries 93
Mean 71.05
Std Dev 79.65

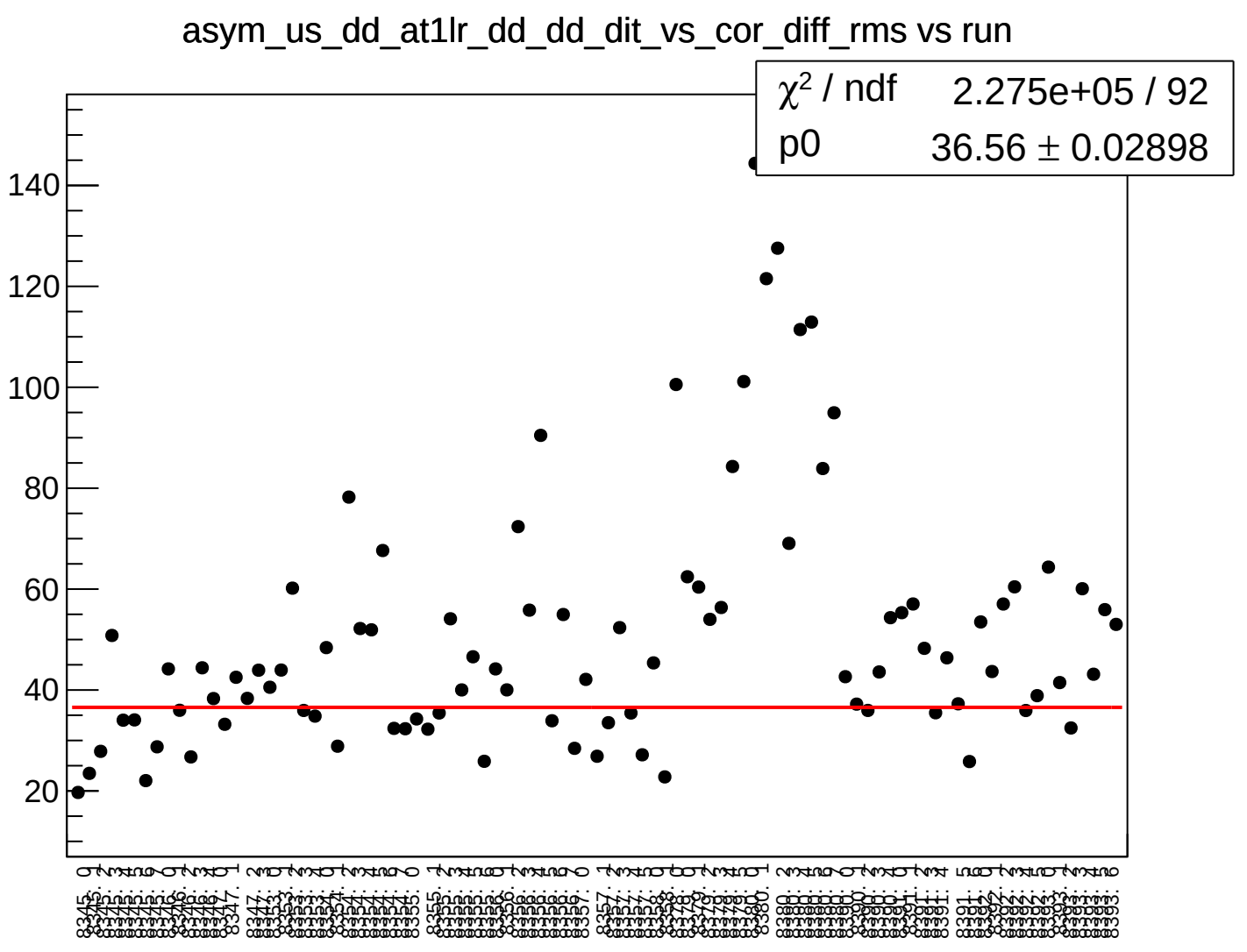

pull1D
Entries 93
Mean 0.01535
Std Dev 1.171

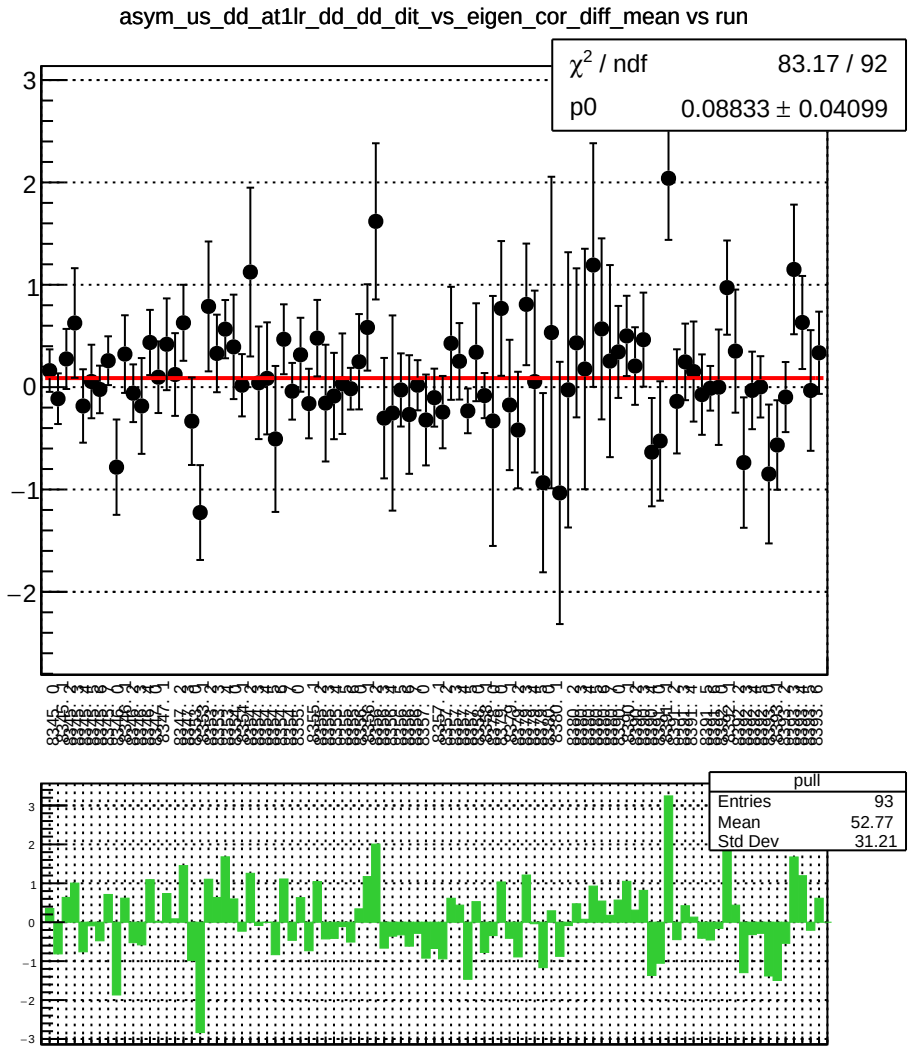

asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 1893 / 92
p0 2192 ± 1.626
2450
2400
2350
2300
2250
2200
2150
2100
2050

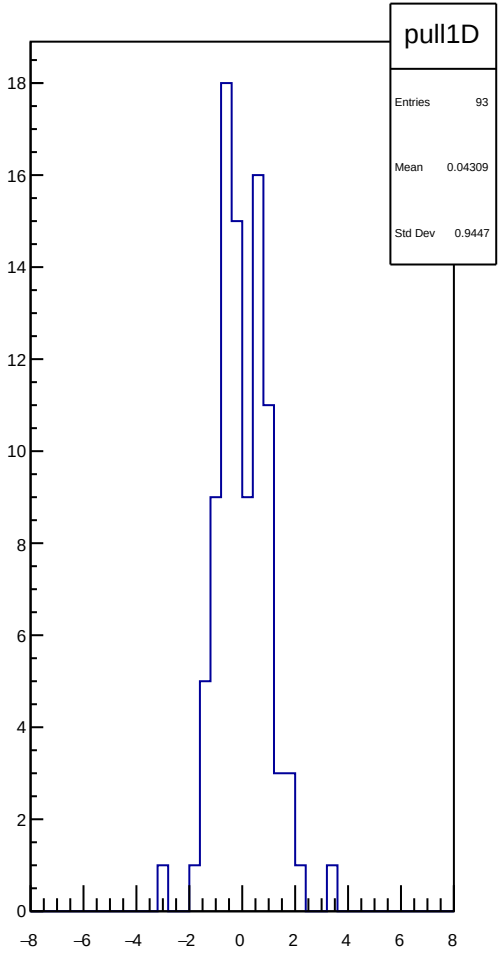

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 94.42 / 92
p0 −1.116e−13 ± 2.043e−13
pull
Entries 93
Mean 40.5
Std Dev 31.25
pull1D
Entries 93
Mean −0.0146
Std Dev 1.008

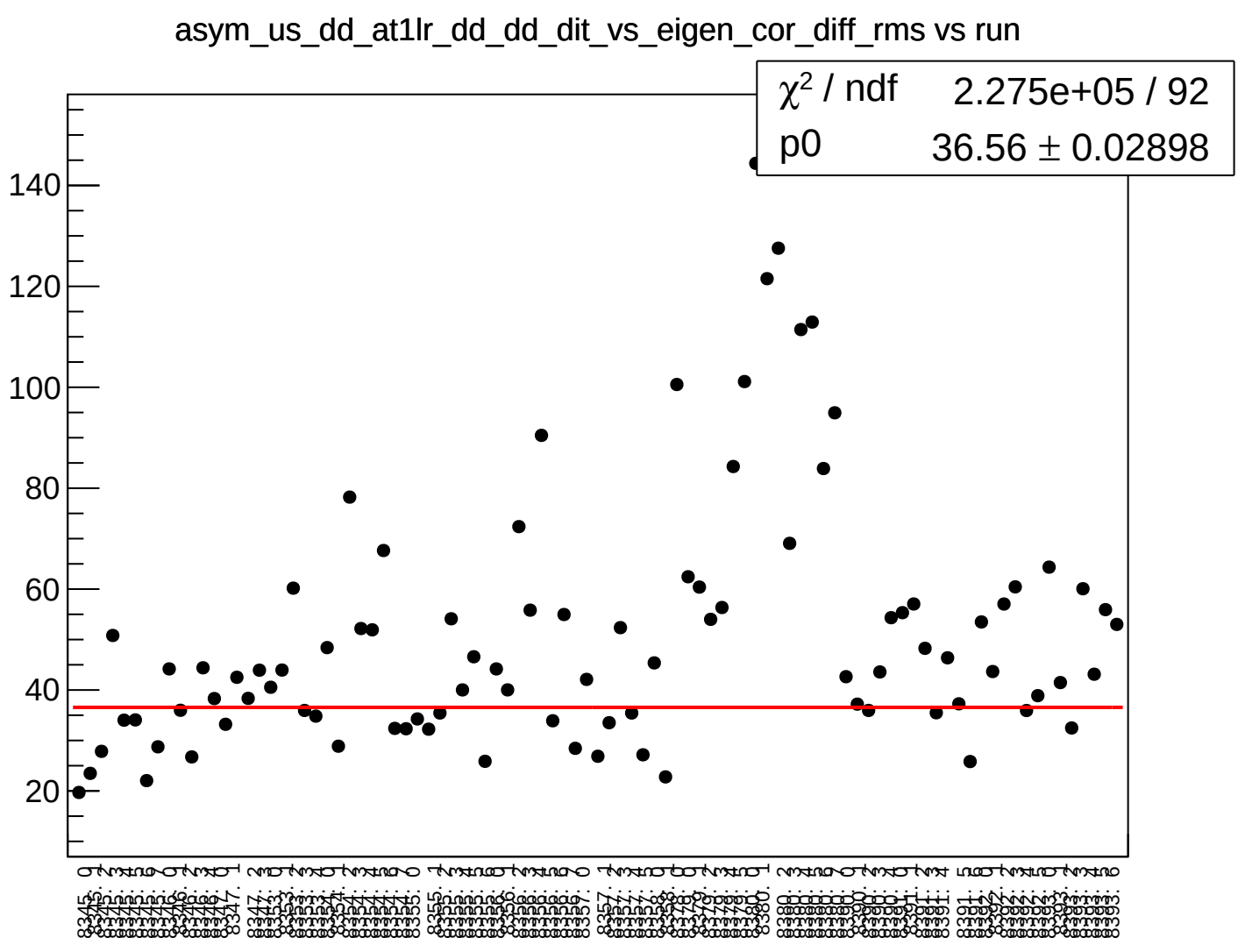

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.928e+05 / 92
p0 1.39e−10 ± 1.445e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

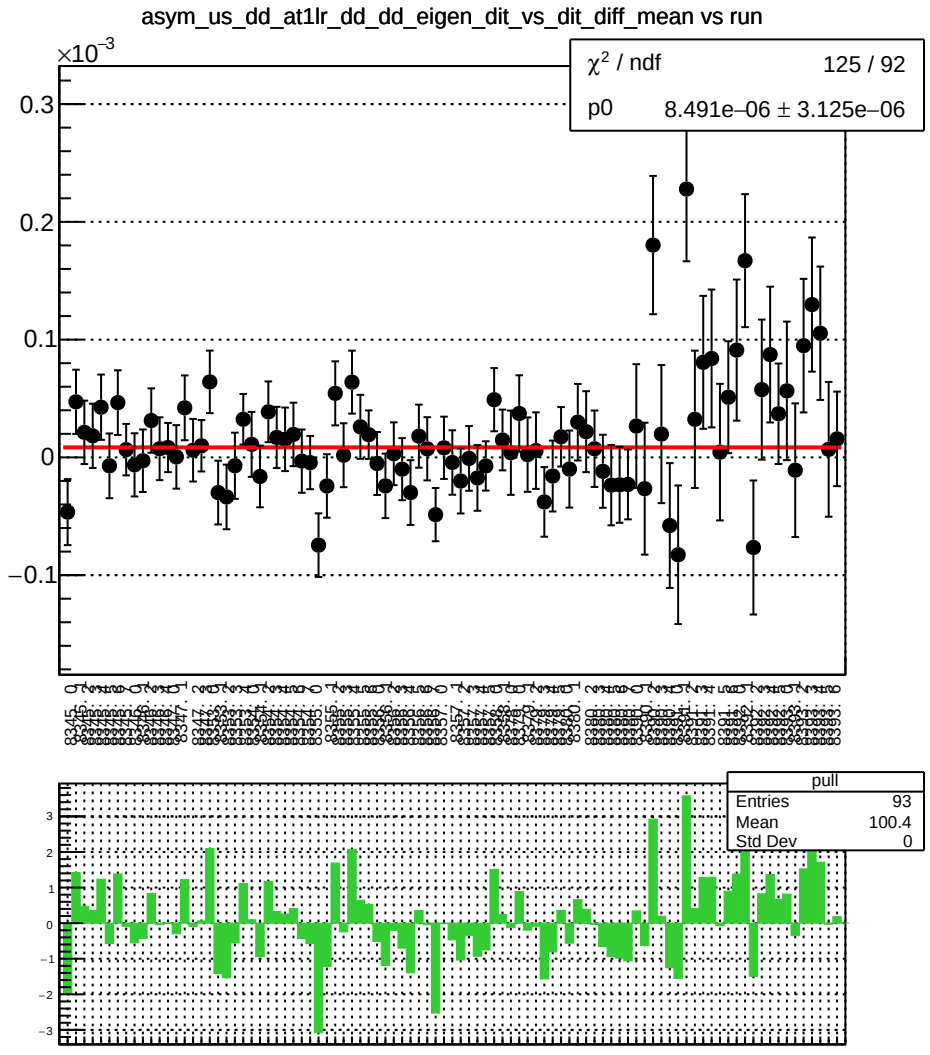

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 83.17 / 92
p0 0.08833 ± 0.04099
pull
Entries 93
Mean 52.77
Std Dev 31.21
pull1D
Entries 93
Mean 0.04309
Std Dev 0.9447

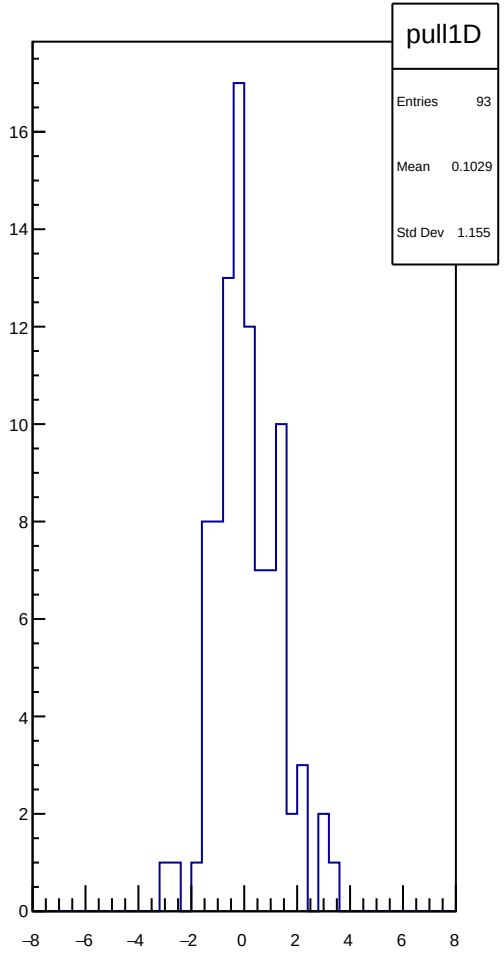

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.275e+05 / 92
p0 36.56 ± 0.02898
140
120
100
80
60
40
20

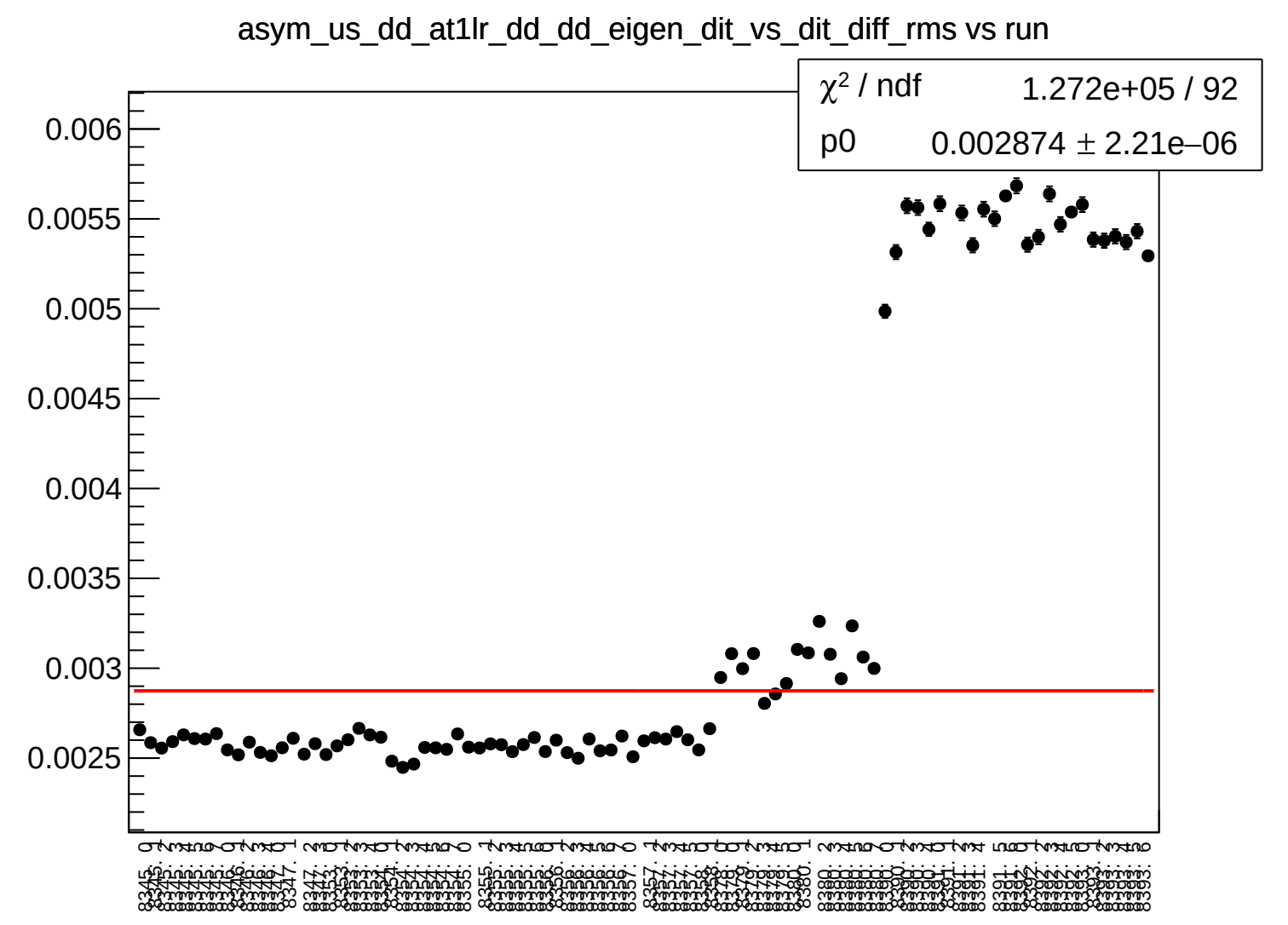

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.17 / 92
p0 0.08833 ± 0.04099
pull
Entries 93
Mean 52.77
Std Dev 31.21

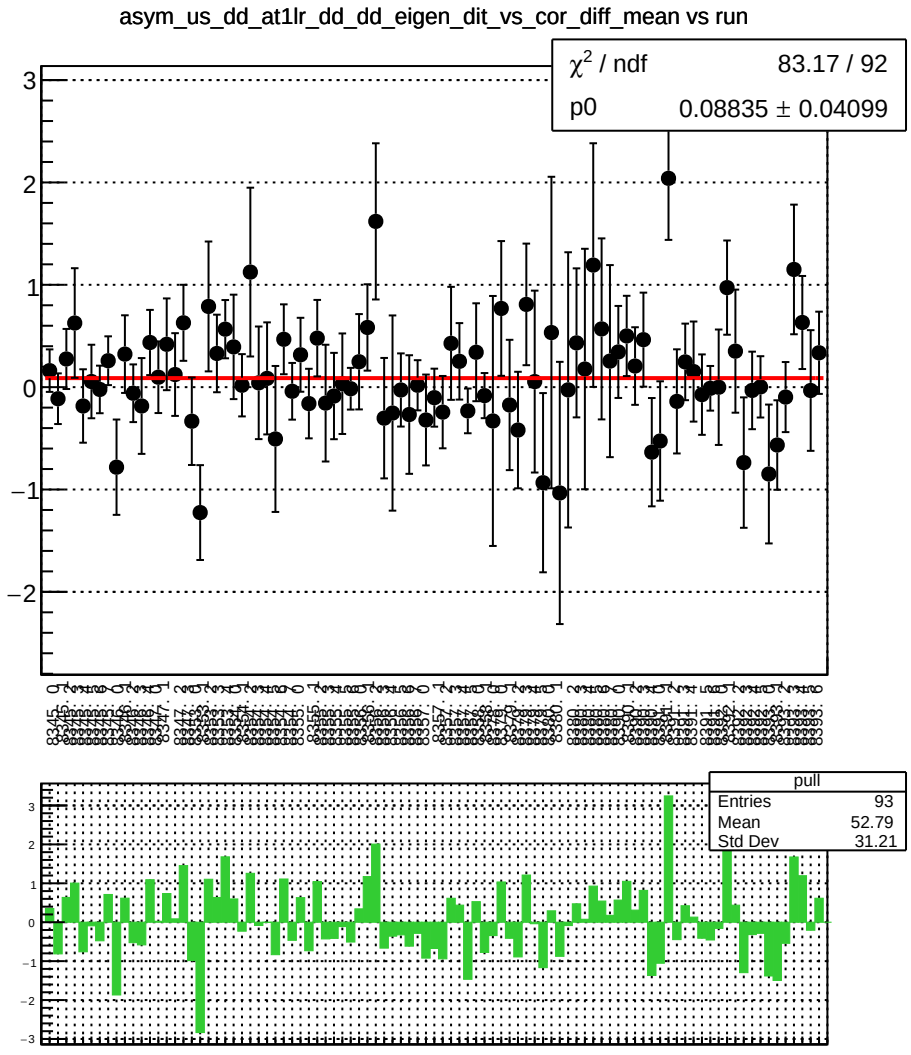

pull1D
Entries 93
Mean 0.04309
Std Dev 0.9447

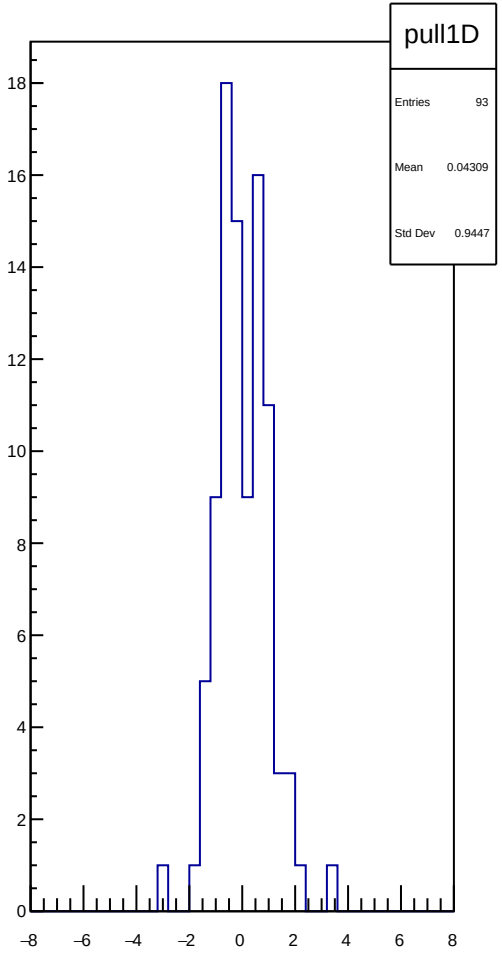

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.275e+05 / 92
p0 36.56 ± 0.02898
140
120
100
80
60
40
20

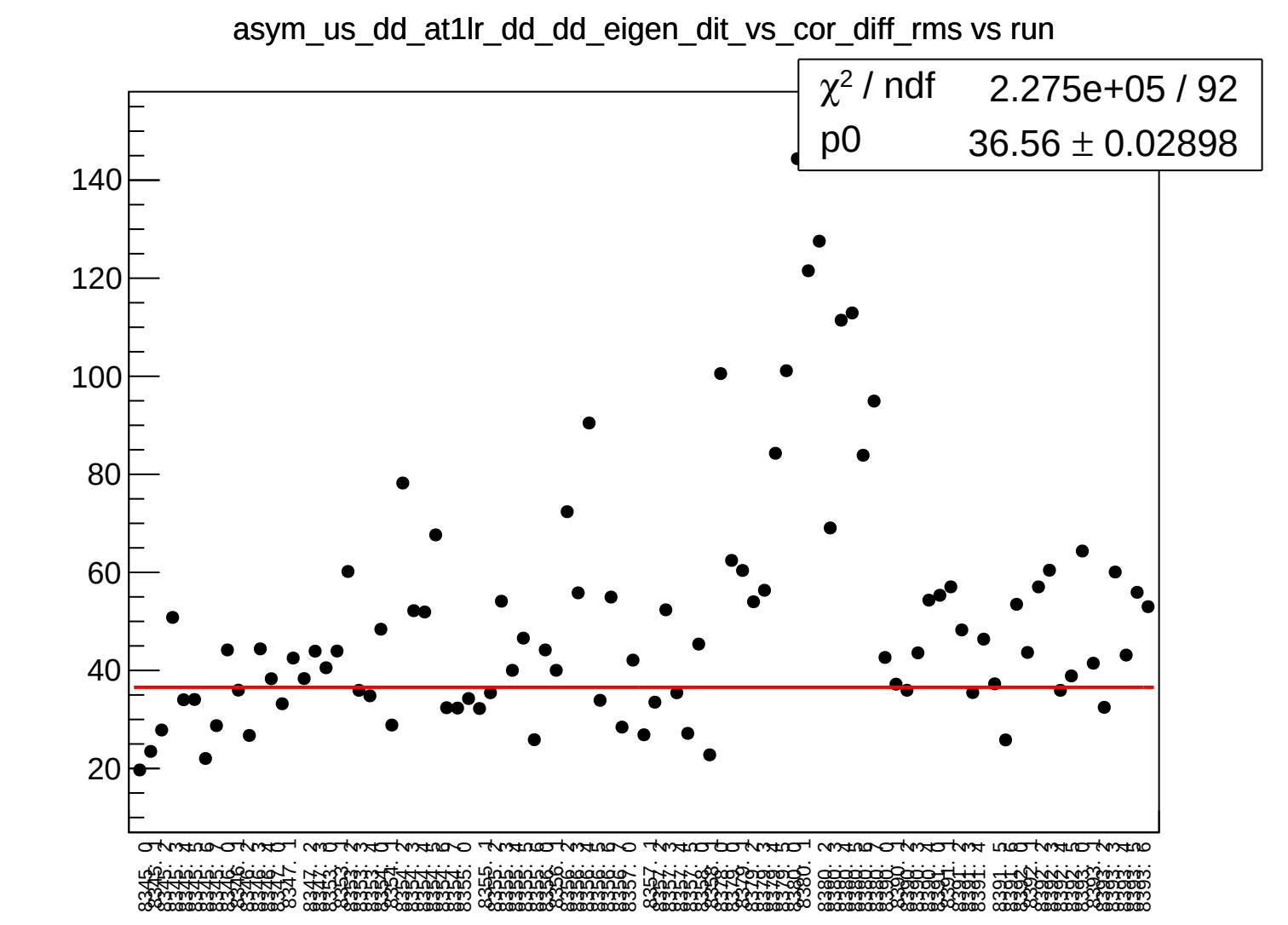

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 125 / 92
p0 8.491e−06 ± 3.125e−06
0.3
0.2
0.1
0
−0.1
pull
Entries 93
Mean 100.4
Std Dev 0
3
2
1
0
−1
−2
−3

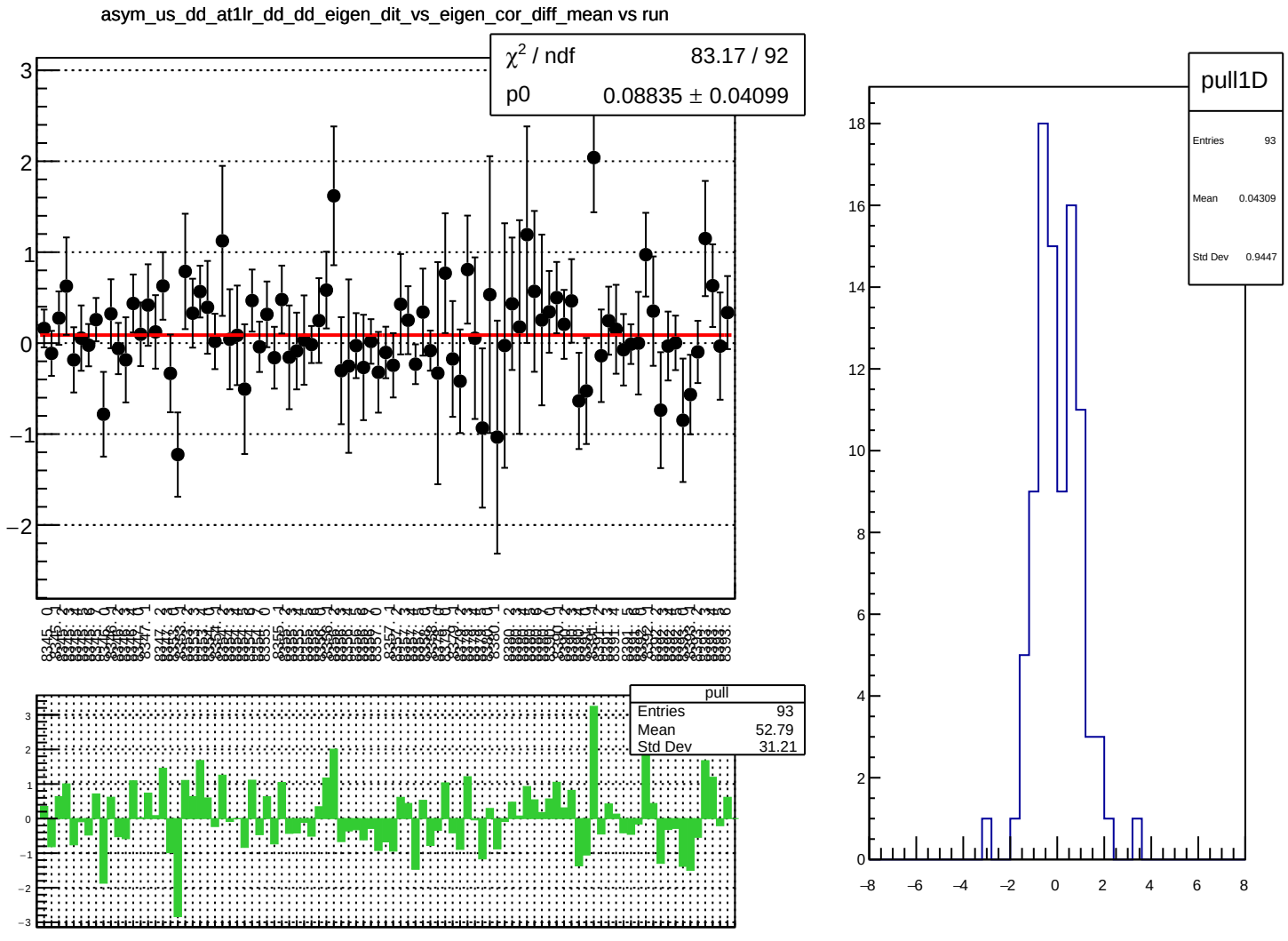

pull1D
Entries 93
Mean 0.1029
Std Dev 1.155
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

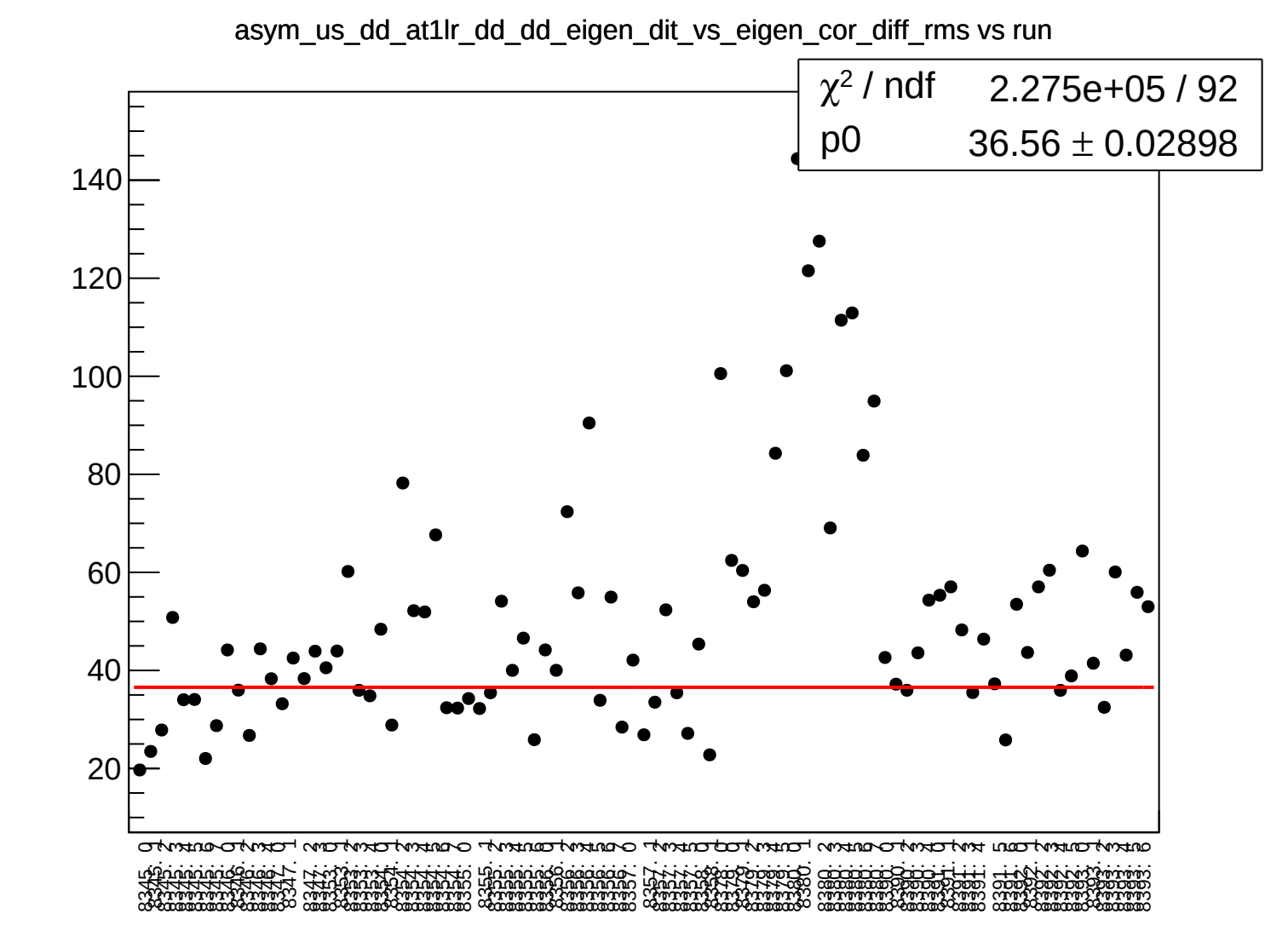

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.272e+05 / 92
p0 0.002874 ± 2.21e−06
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025

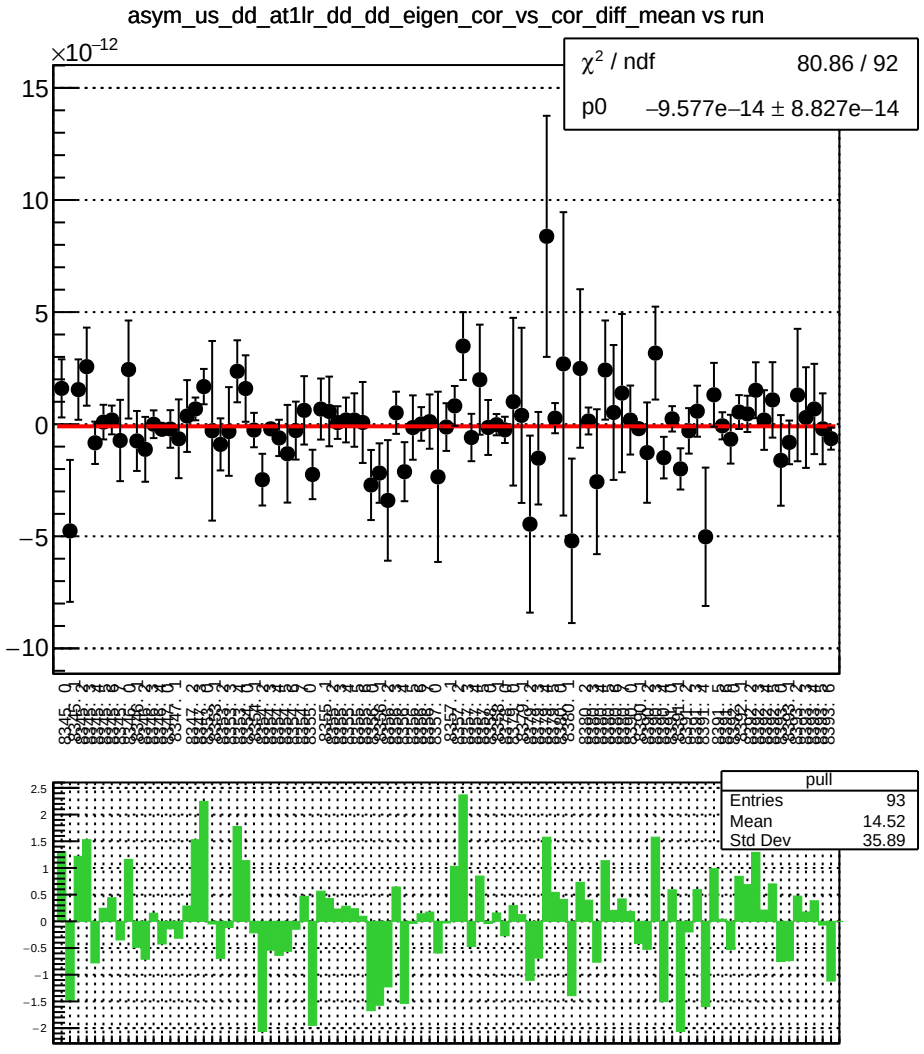

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.17 / 92
p0 0.08835 ± 0.04099
pull
Entries 93
Mean 52.79
Std Dev 31.21

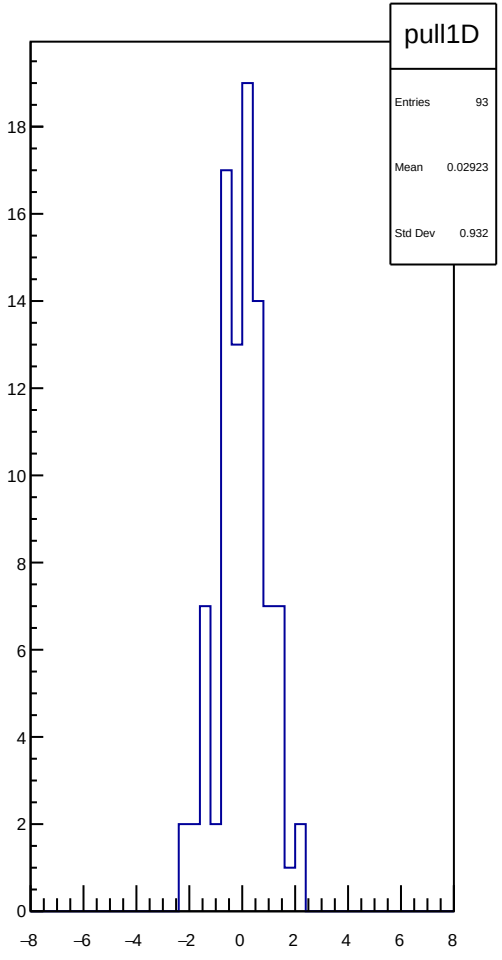

pull1D
Entries 93
Mean 0.04309
Std Dev 0.9447

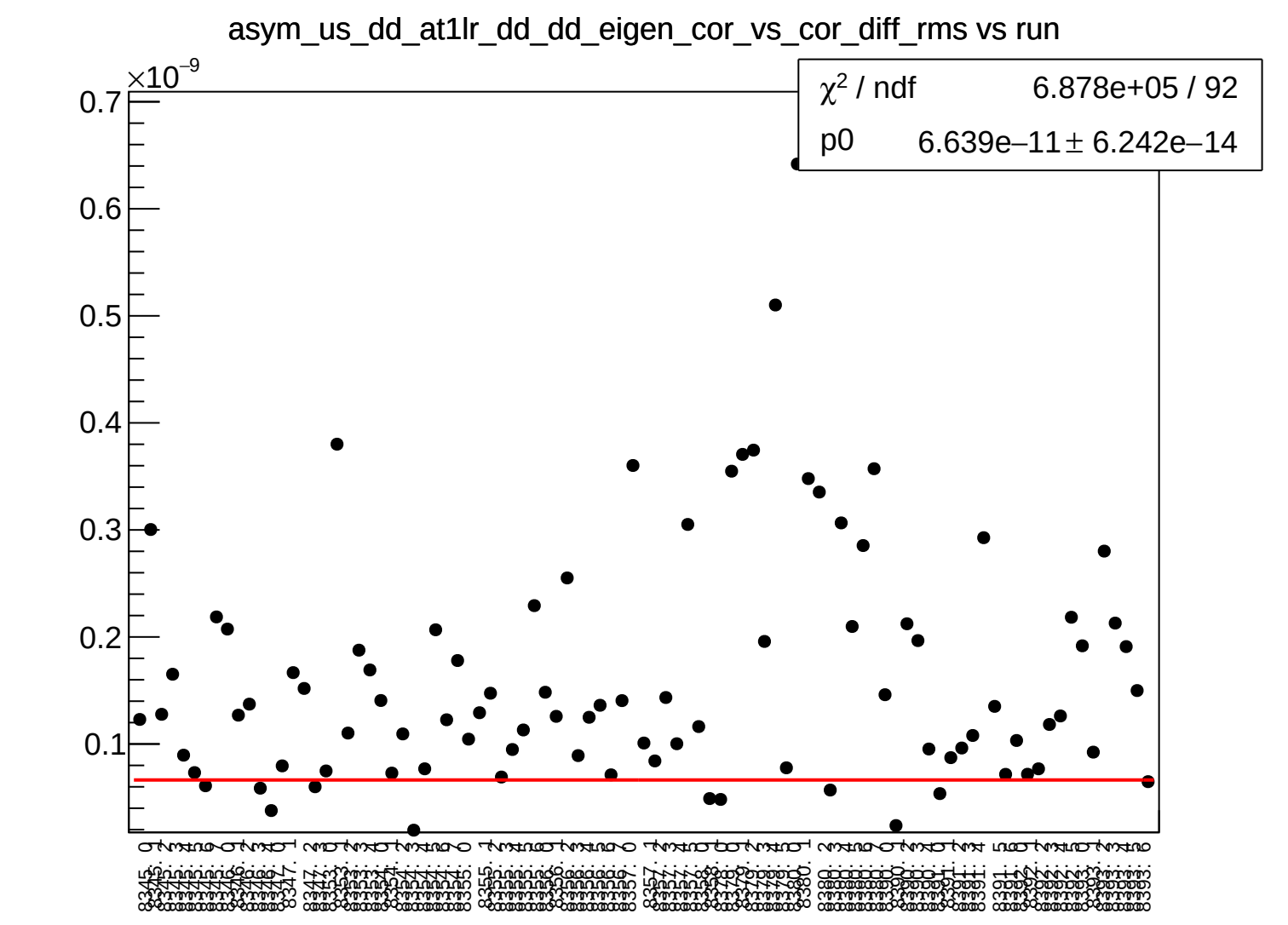

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.275e+05 / 92
p0 36.56 ± 0.02898
140
120
100
80
60
40
20

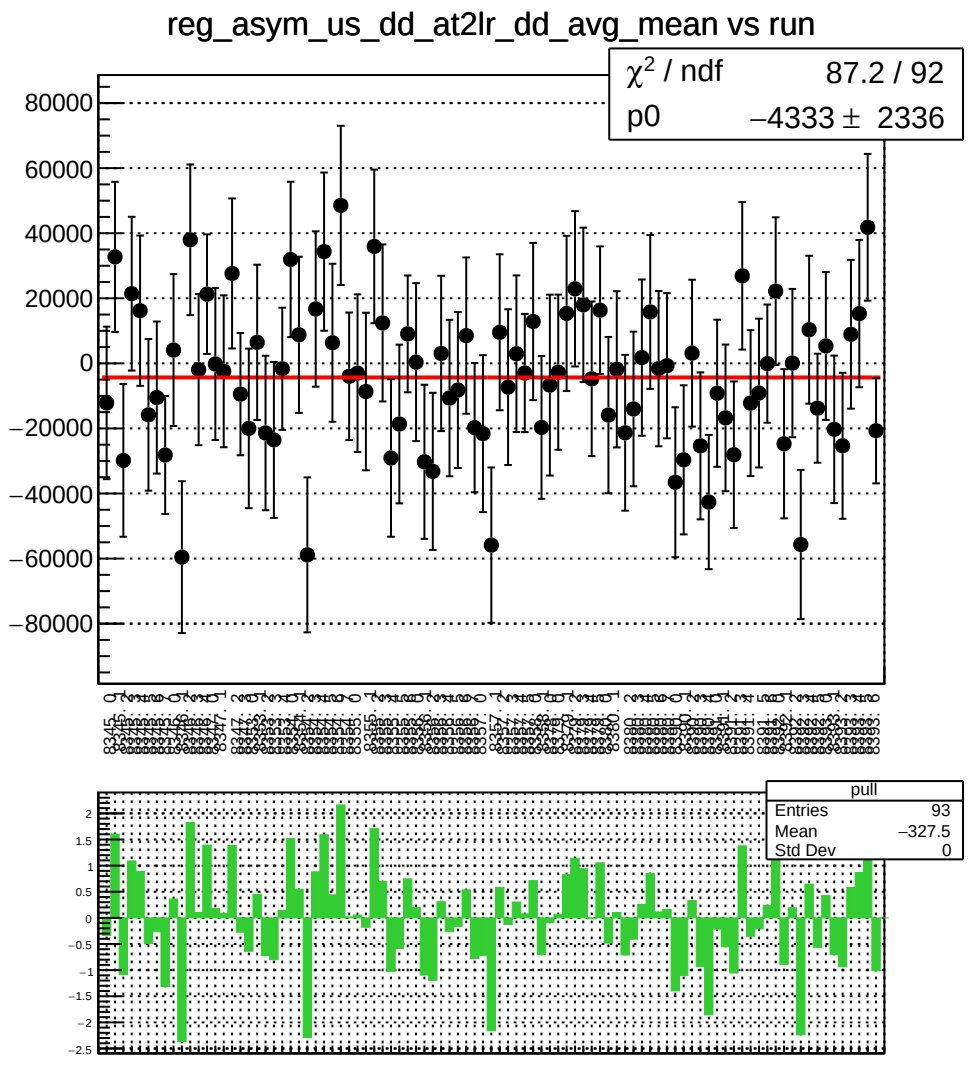

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.17 / 92
p0 0.08835 ± 0.04099
pull
Entries 93
Mean 52.79
Std Dev 31.21
pull1D
Entries 93
Mean 0.04309
Std Dev 0.9447

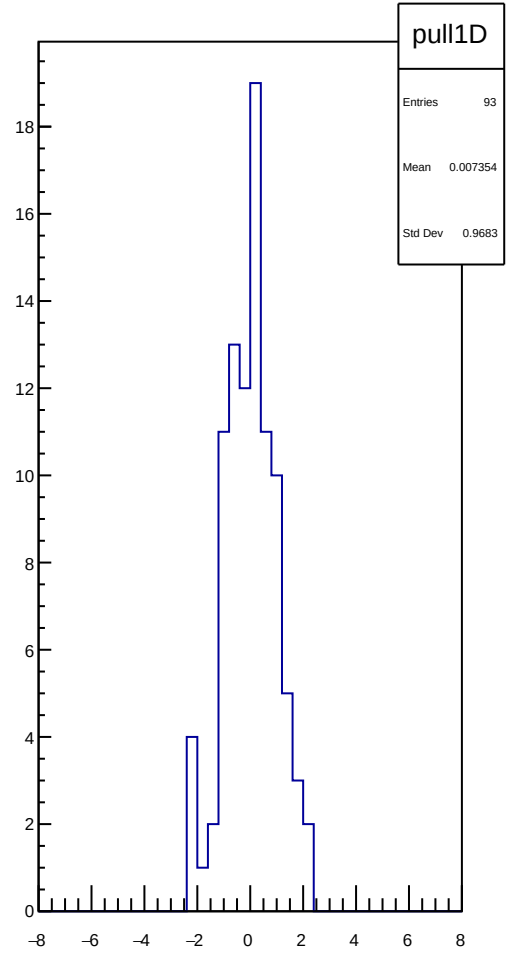

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.275e+05 / 92
p0 36.56 ± 0.02898
140
120
100
80
60
40
20

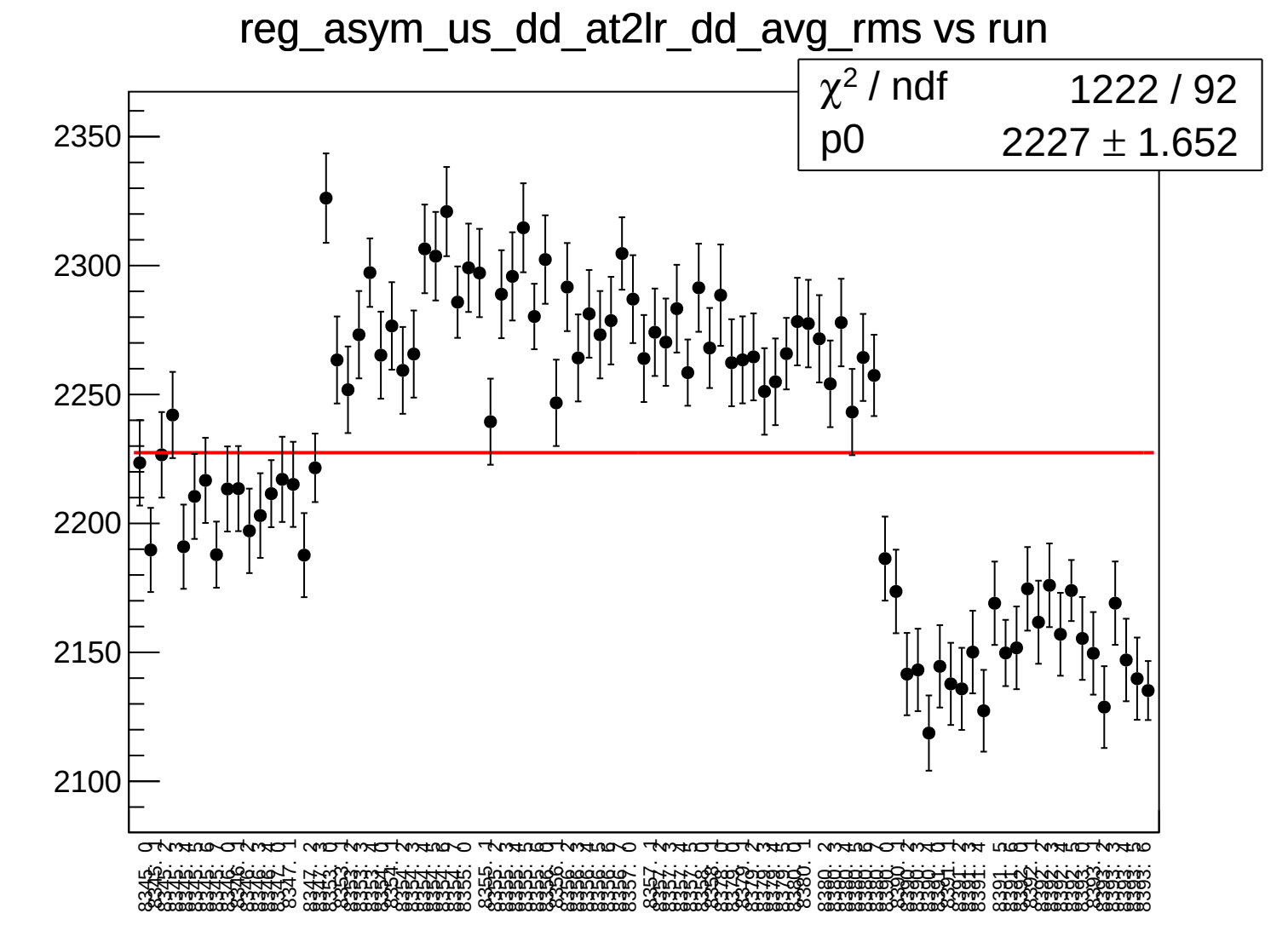

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.86 / 92
p0 −9.577e−14 ± 8.827e−14
pull
Entries 93
Mean 14.52
Std Dev 35.89

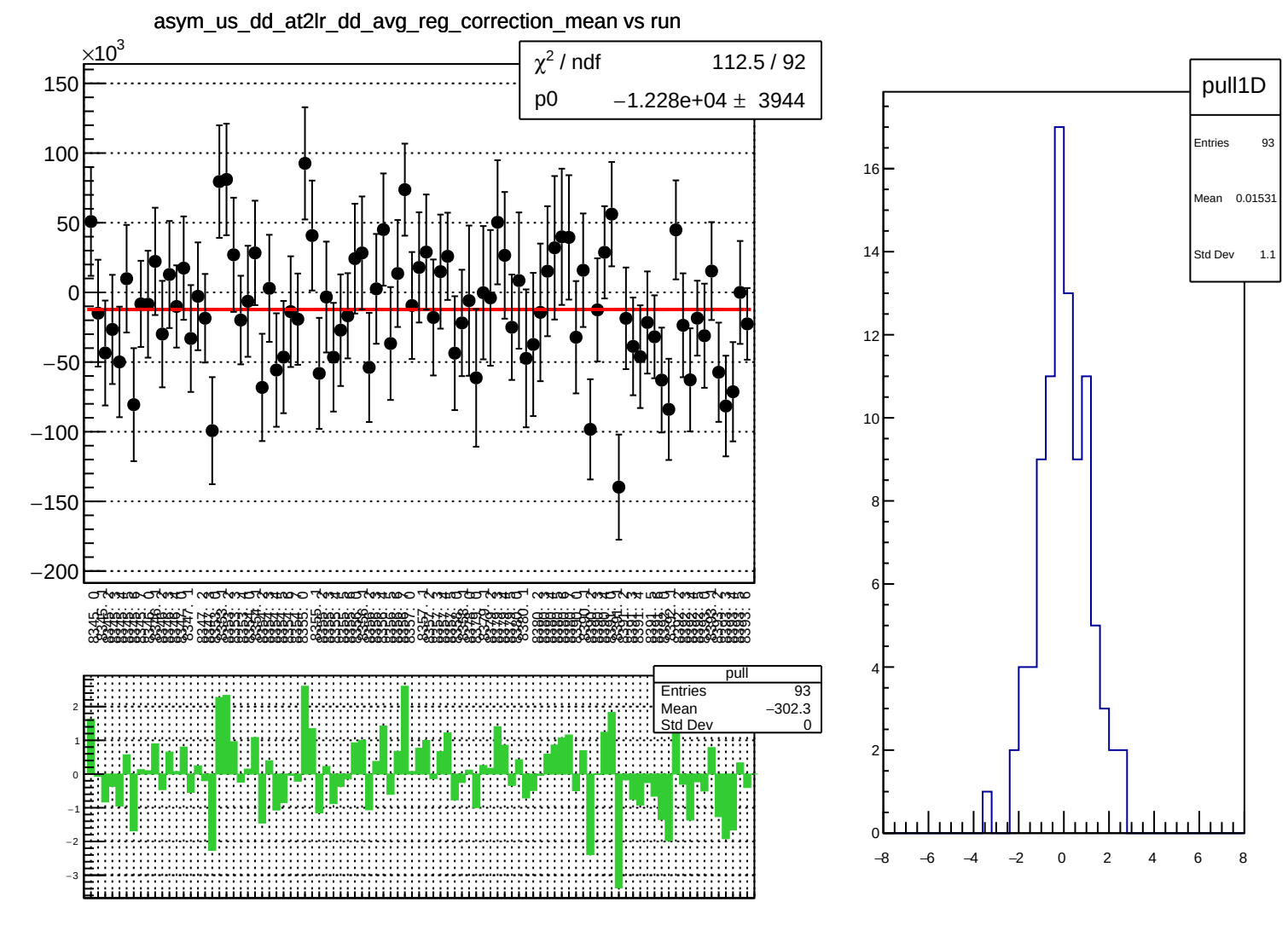

pull1D
Entries 93
Mean 0.02923
Std Dev 0.932

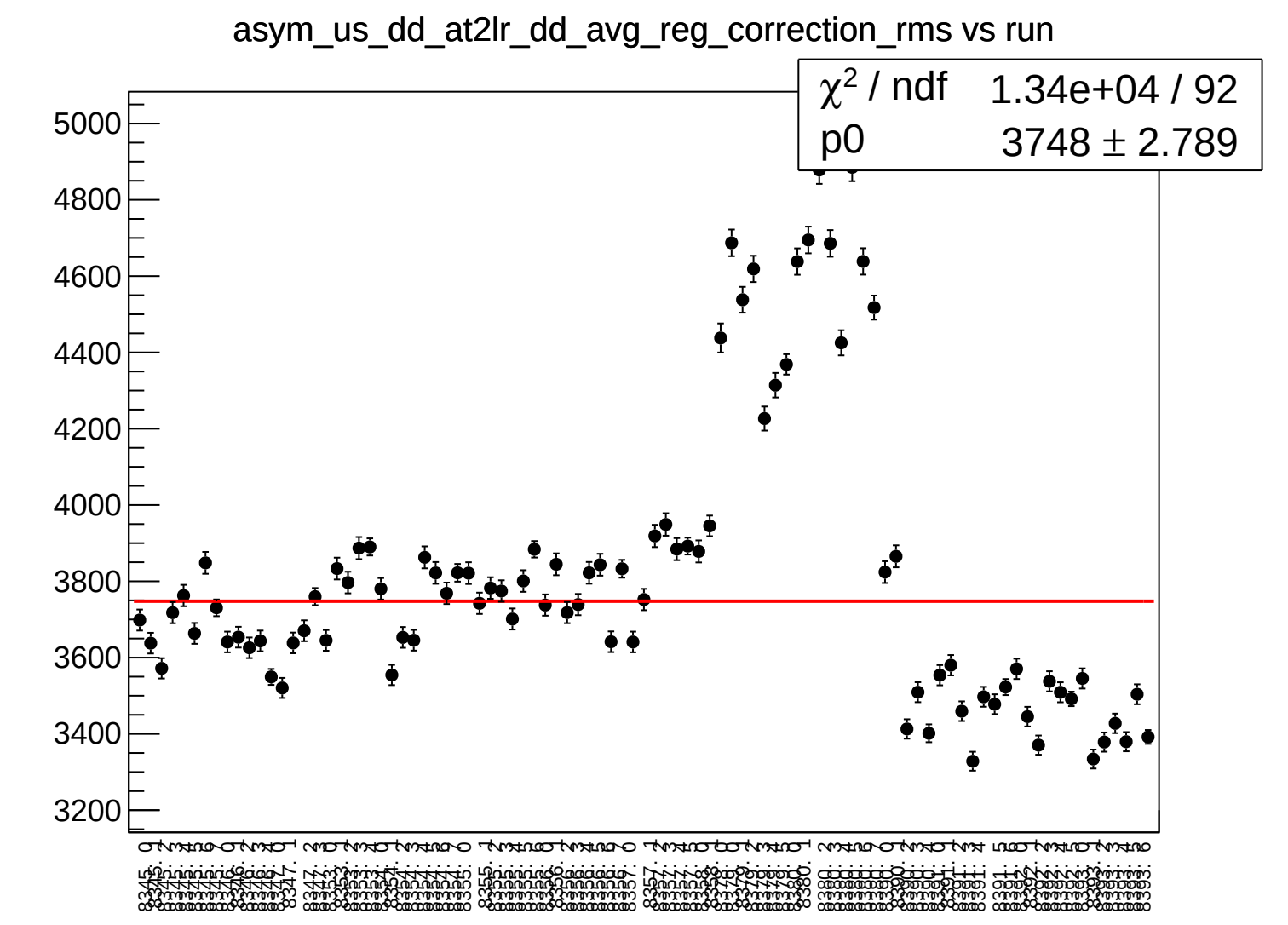

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.7
0.6
0.5
0.4
0.3
0.2
0.1
χ² / ndf 6.878e+05 / 92
p0 6.639e−11 ± 6.242e−14

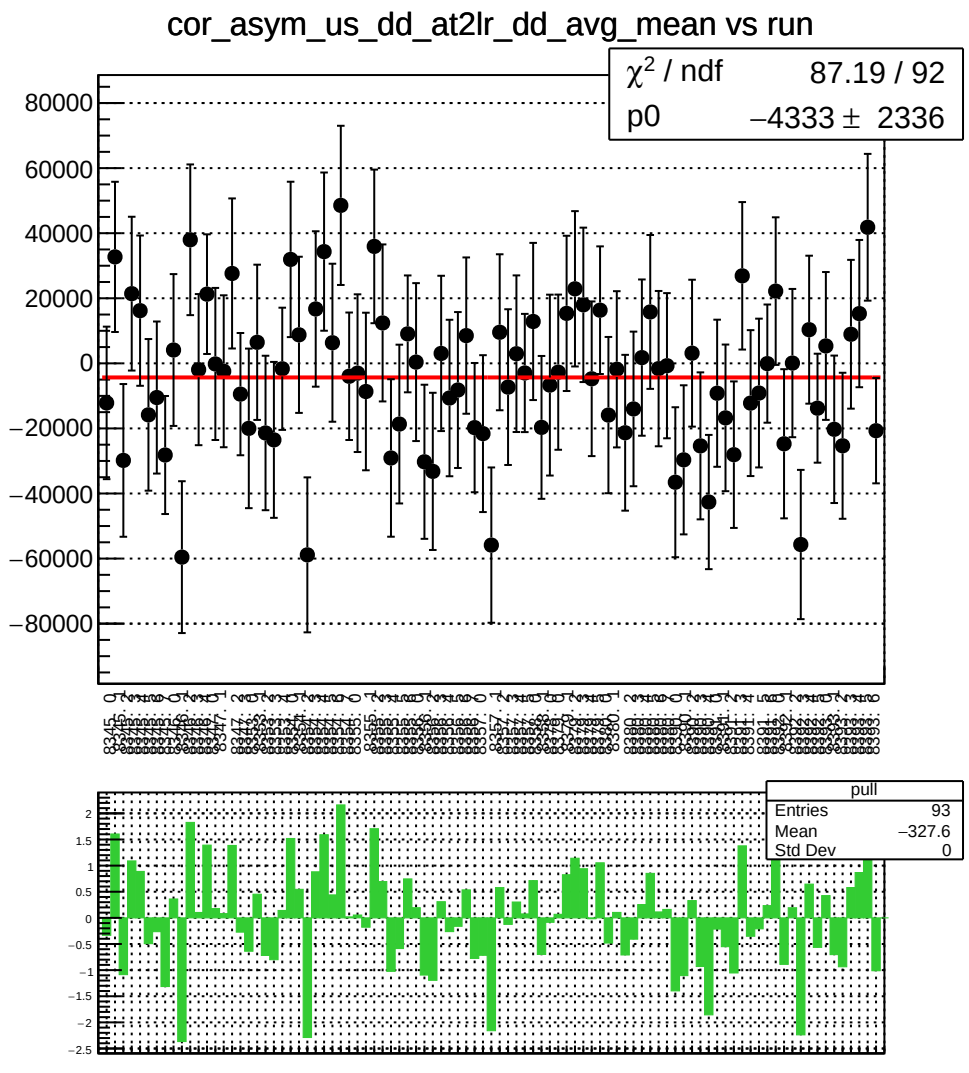

reg_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 87.2 / 92
p0 −4333 ± 2336
pull
Entries 93
Mean −327.5
Std Dev 0

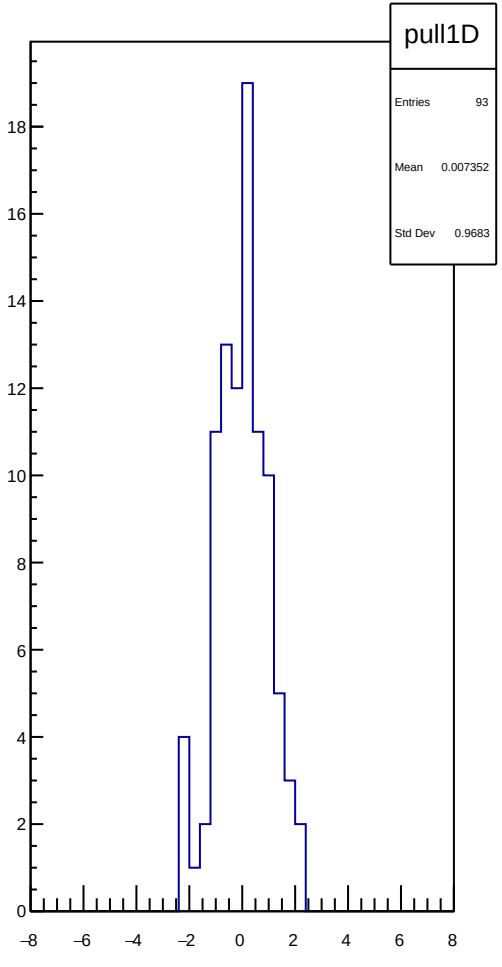

pull1D
Entries 93
Mean 0.007354
Std Dev 0.9683

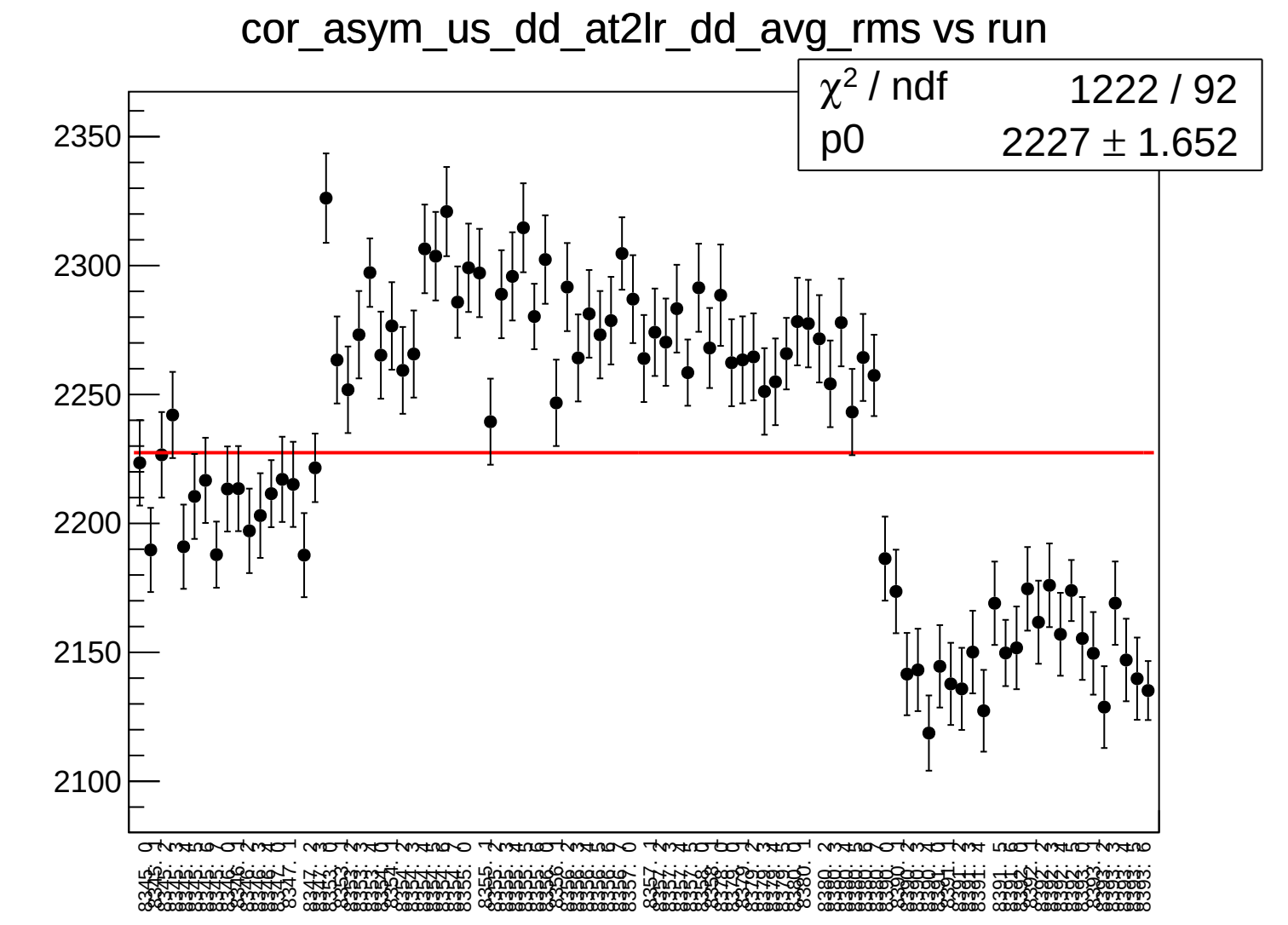

reg_asym_us_dd_at2lr_dd_avg_rms vs run
χ^2 / ndf 1222 / 92
p0 2227 ± 1.652
2350
2300
2250
2200
2150
2100

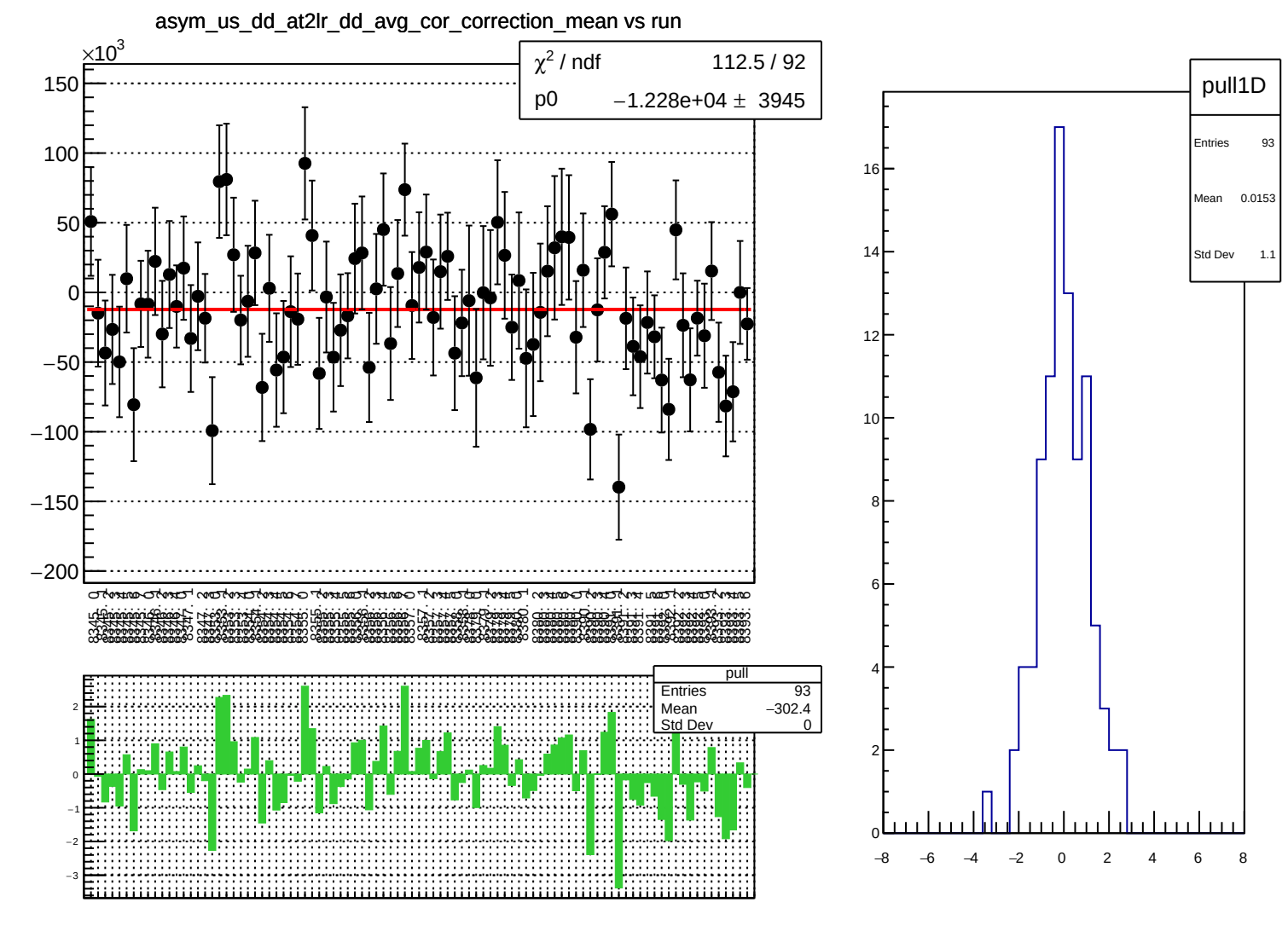

asym_us_dd_at2lr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 112.5 / 92
p0 −1.228e+04 ± 3944
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean −302.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.01531
Std Dev 1.1
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

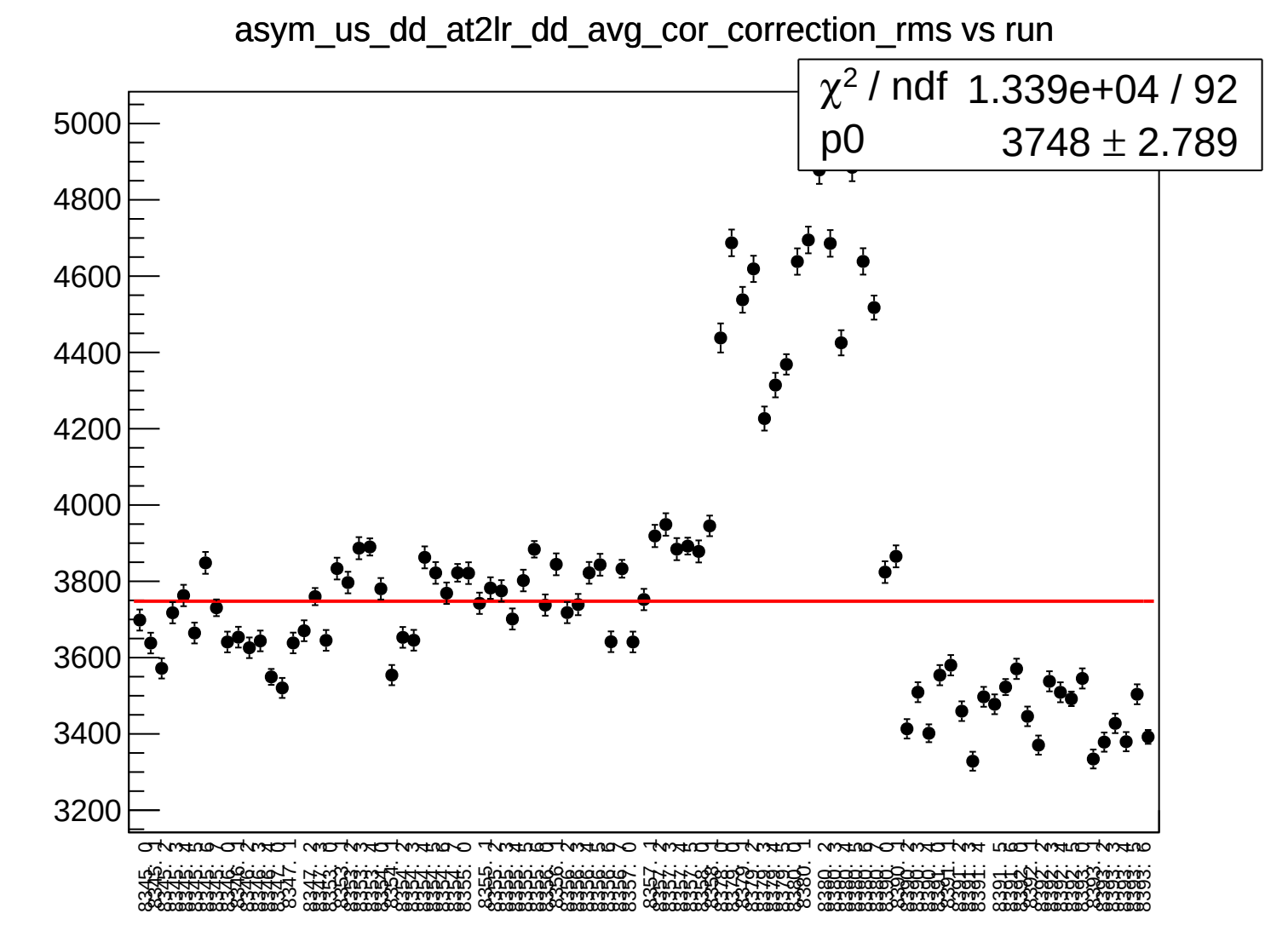

asym_us_dd_at2lr_dd_avg_reg_correction_rms vs run
χ² / ndf 1.34e+04 / 92
p0 3748 ± 2.789
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

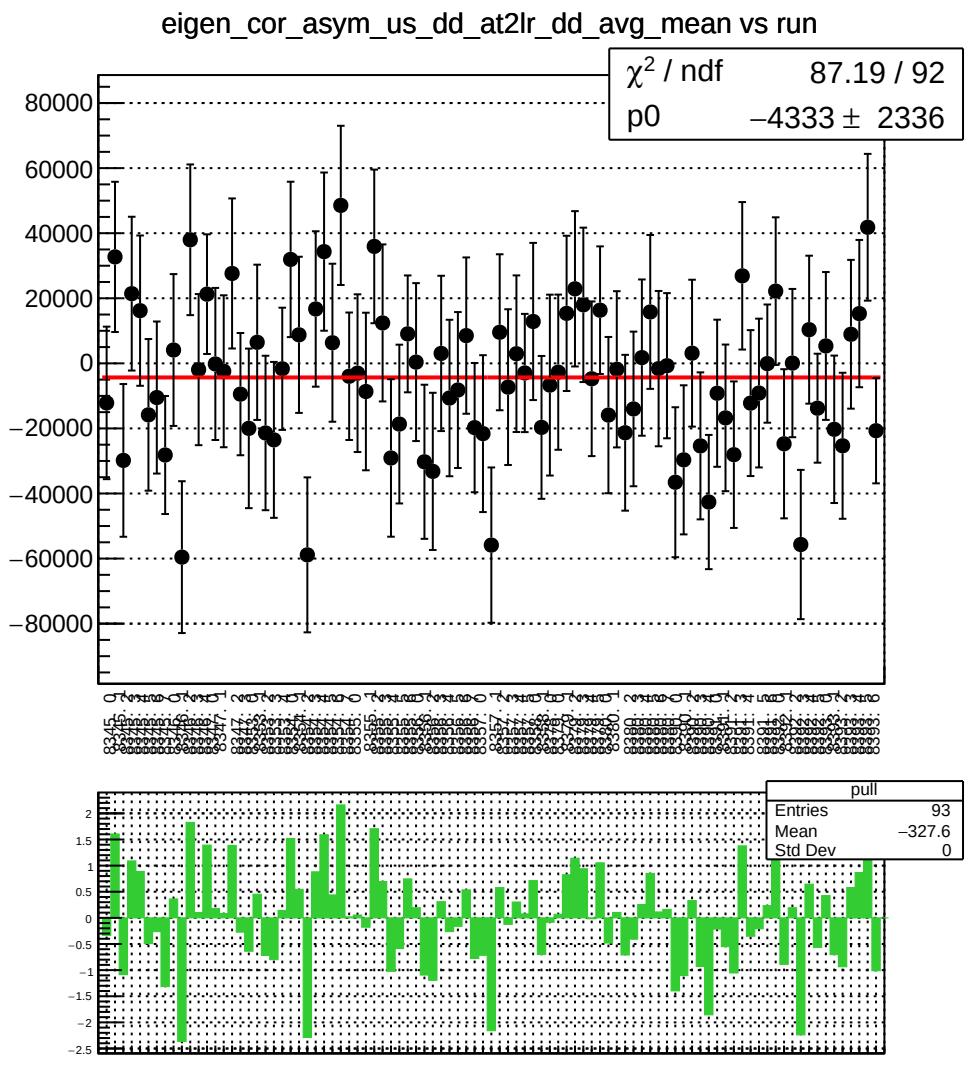

cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 87.19 / 92
p0 −4333 ± 2336
pull
Entries 93
Mean −327.6
Std Dev 0

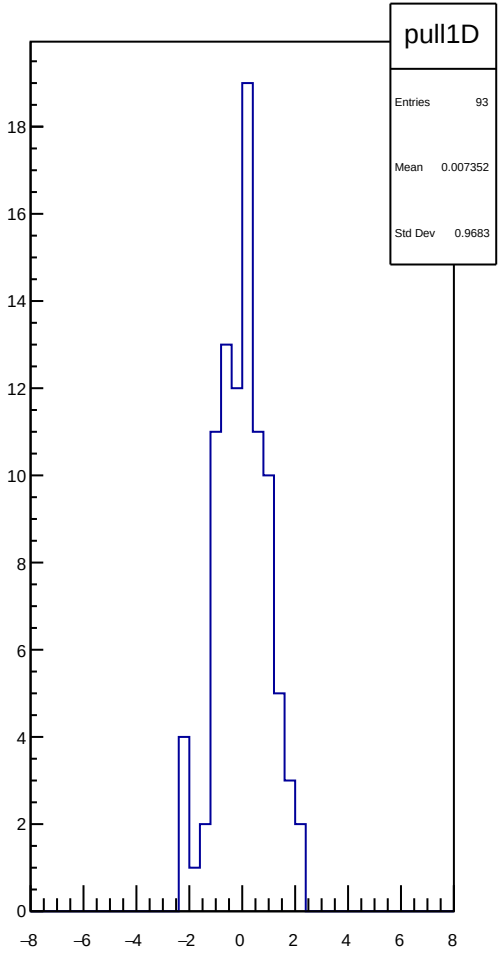

pull1D
Entries 93
Mean 0.007352
Std Dev 0.9683

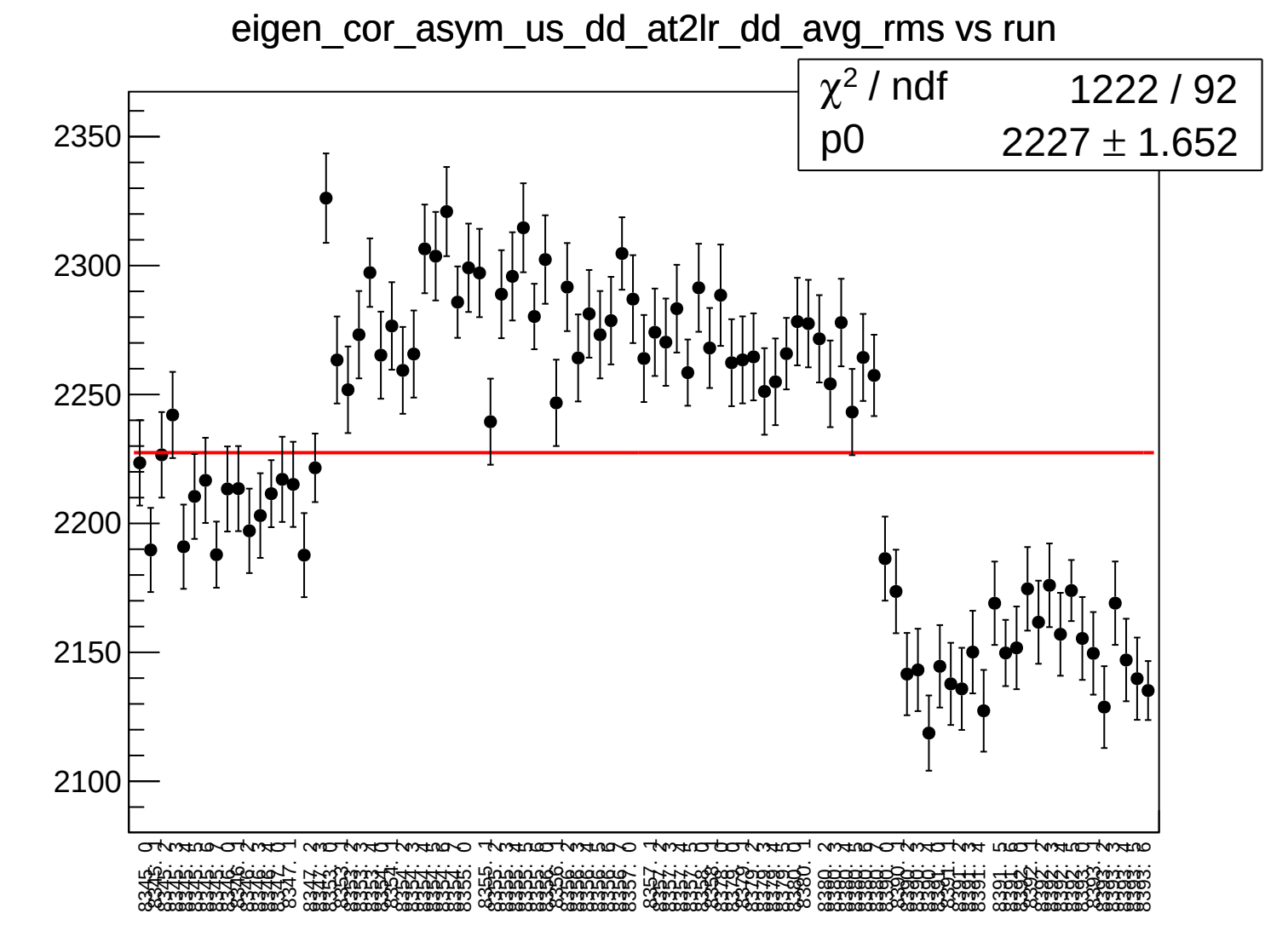

cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 1222 / 92
p0 2227 ± 1.652
2350
2300
2250
2200
2150
2100

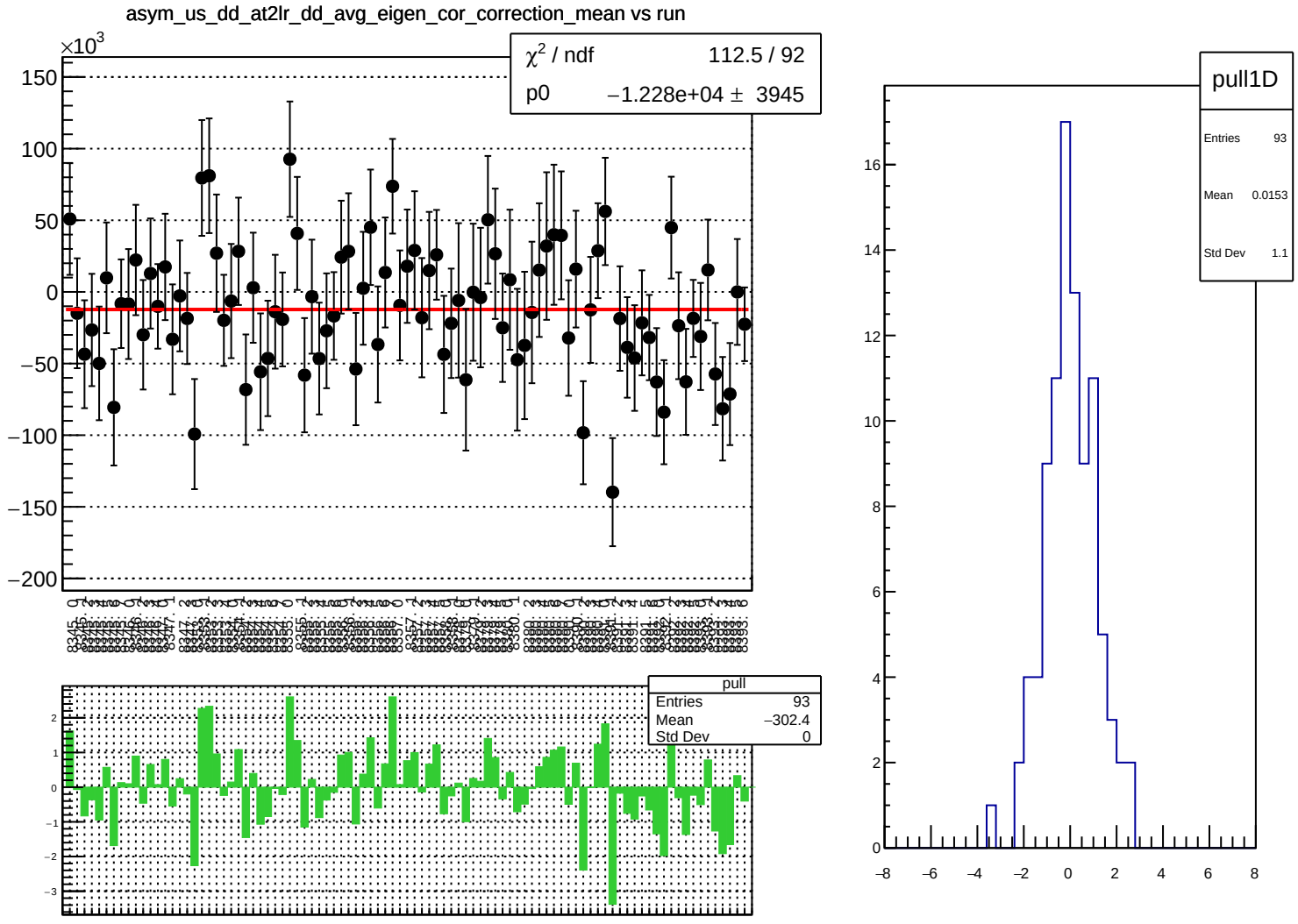

asym_us_dd_at2lr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 112.5 / 92
p0 −1.228e+04 ± 3945
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean −302.4
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.0153
Std Dev 1.1
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

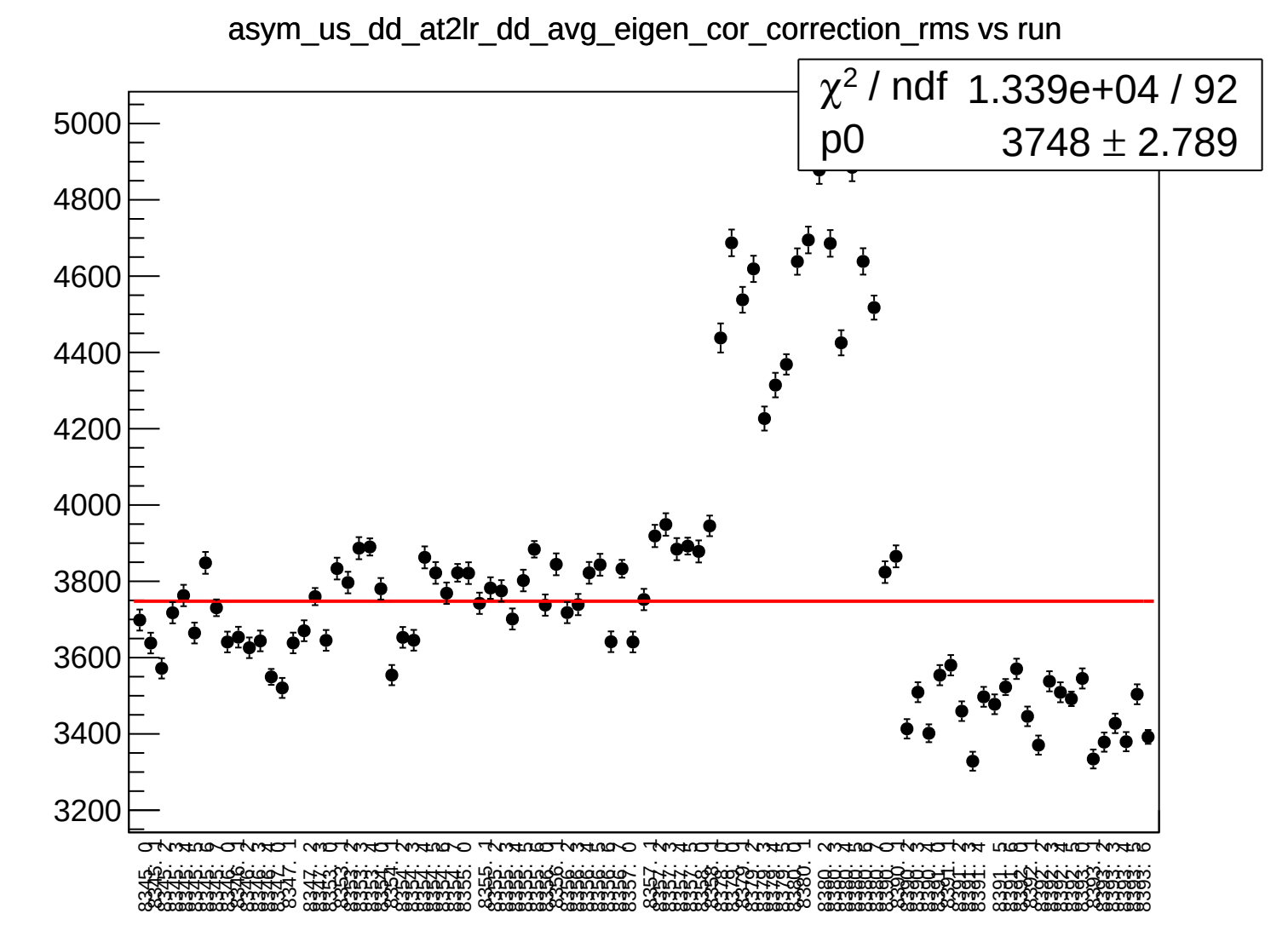

asym_us_dd_at2lr_dd_avg_cor_correction_rms vs run
χ² / ndf 1.339e+04 / 92
p0 3748 ± 2.789
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

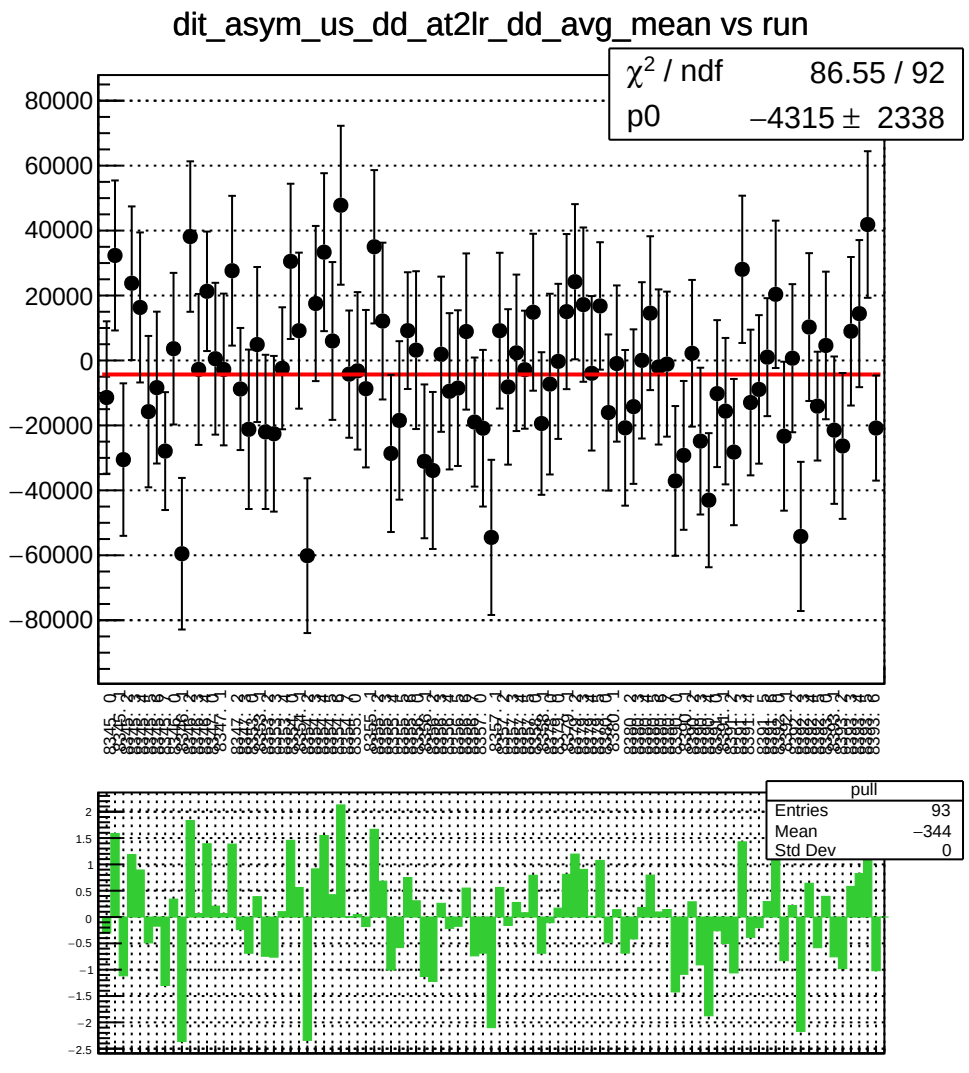

eigen_cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 87.19 / 92
p0 −4333 ± 2336
pull
Entries 93
Mean −327.6
Std Dev 0

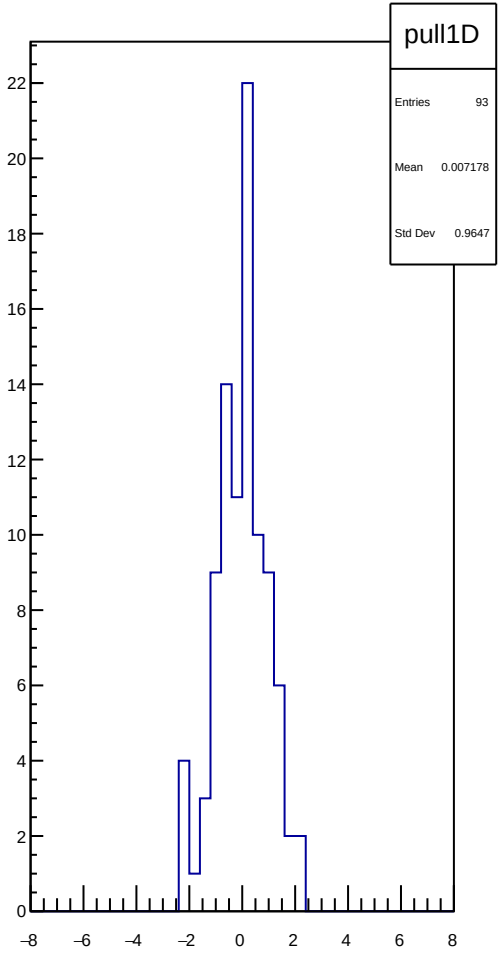

pull1D
Entries 93
Mean 0.007352
Std Dev 0.9683

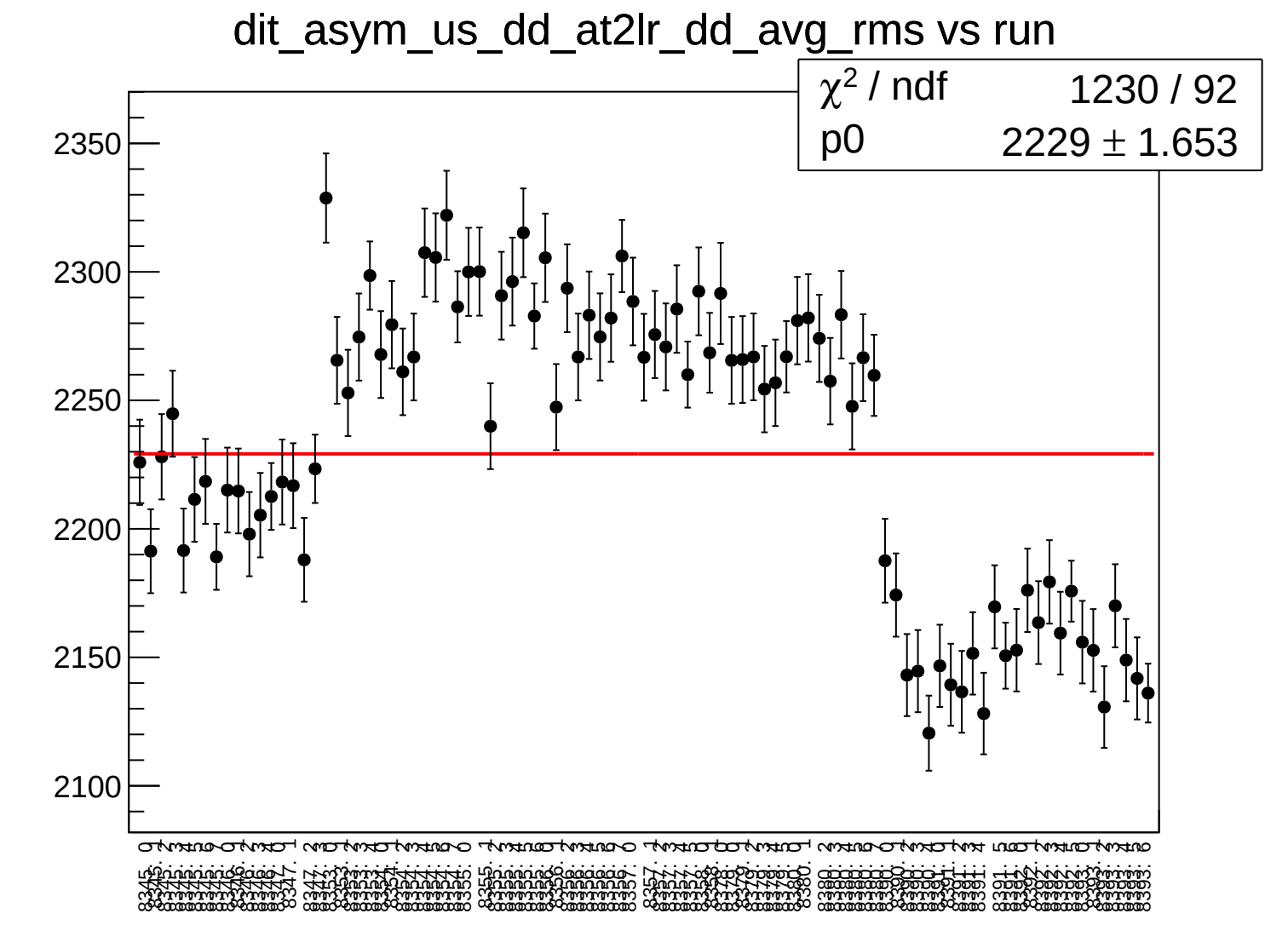

eigen_cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 1222 / 92
p0 2227 ± 1.652
2350
2300
2250
2200
2150
2100

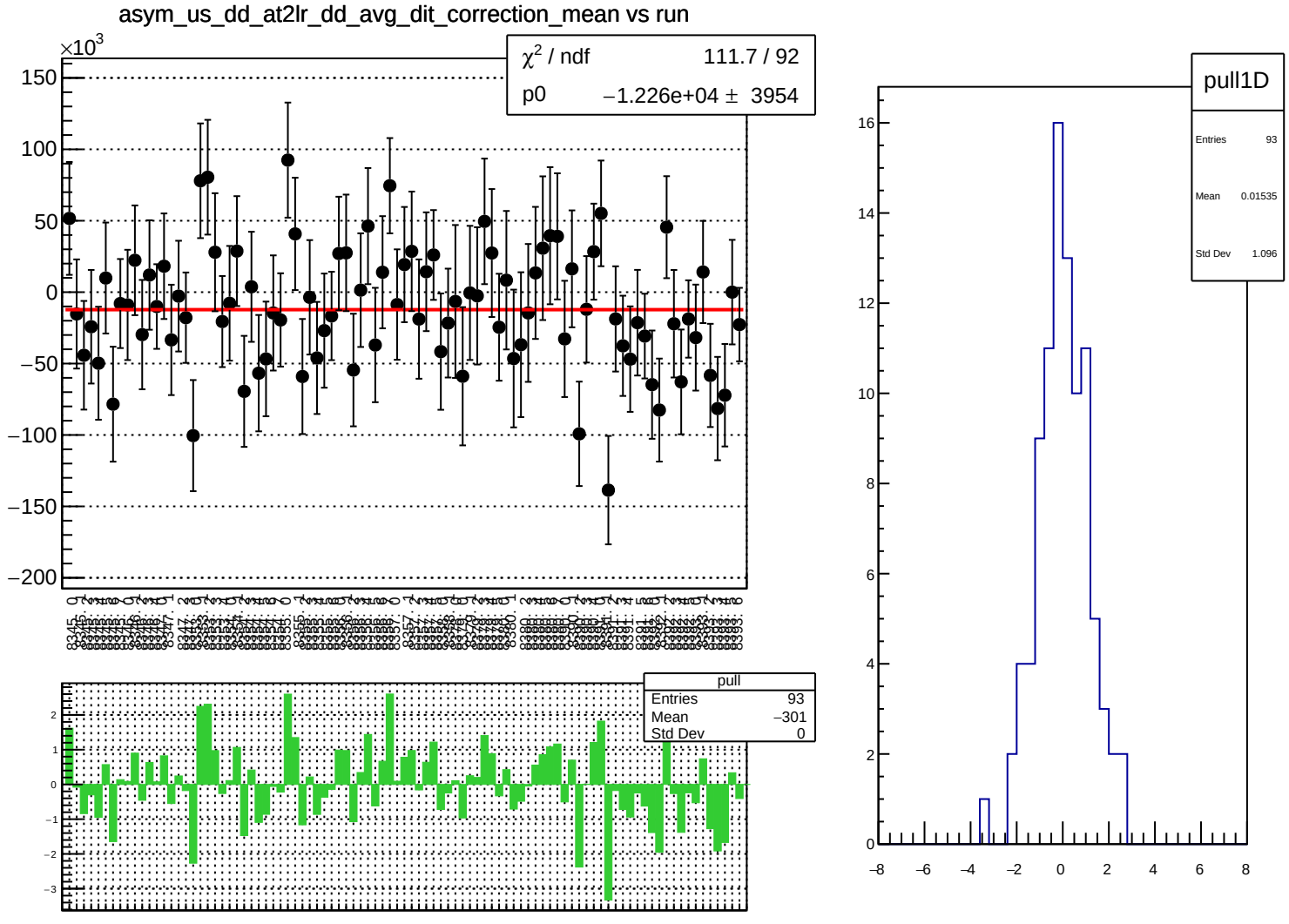

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 112.5 / 92
p0 −1.228e+04 ± 3945
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean −302.4
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.0153
Std Dev 1.1
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

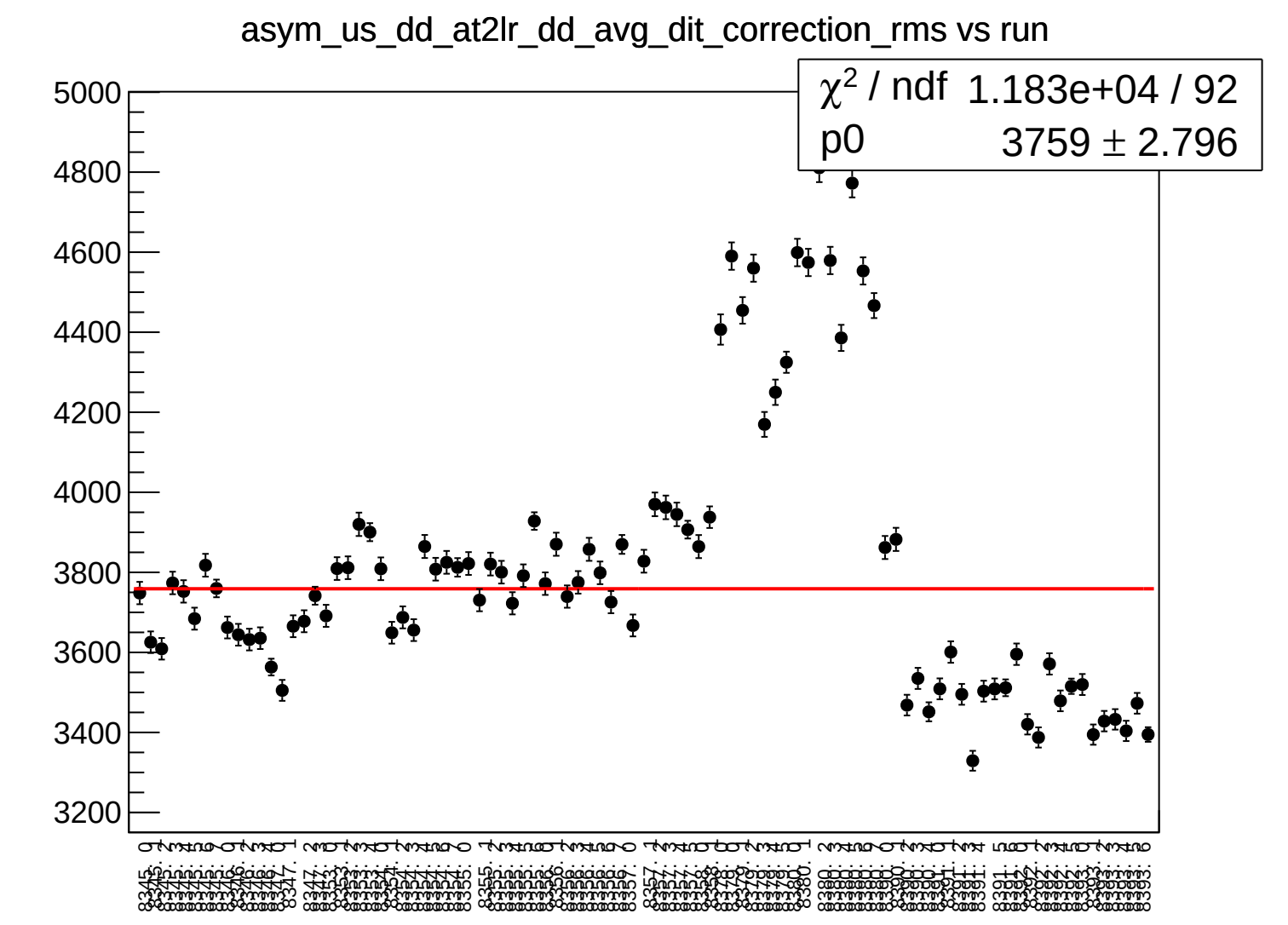

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.339e+04 / 92
p0 3748 ± 2.789
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

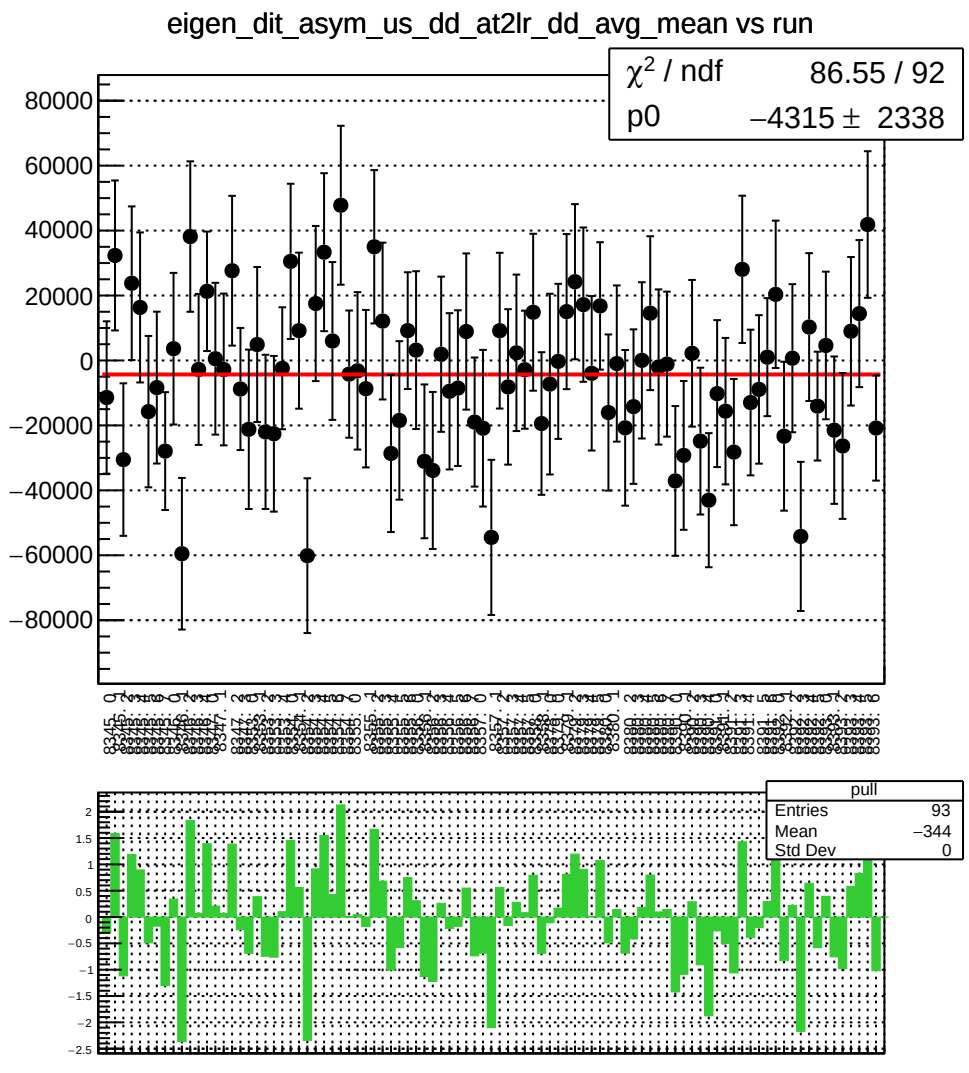

dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 86.55 / 92
p0 −4315 ± 2338
pull
Entries 93
Mean −344
Std Dev 0

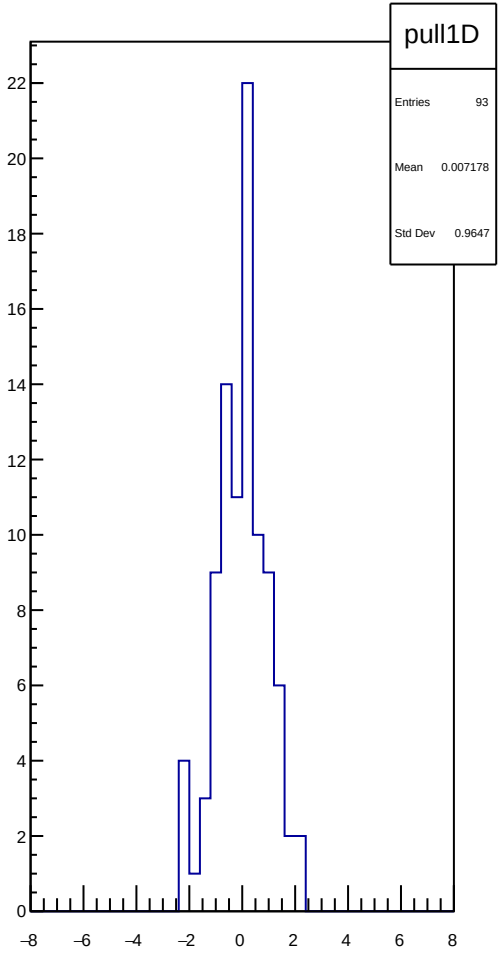

pull1D
Entries 93
Mean 0.007178
Std Dev 0.9647

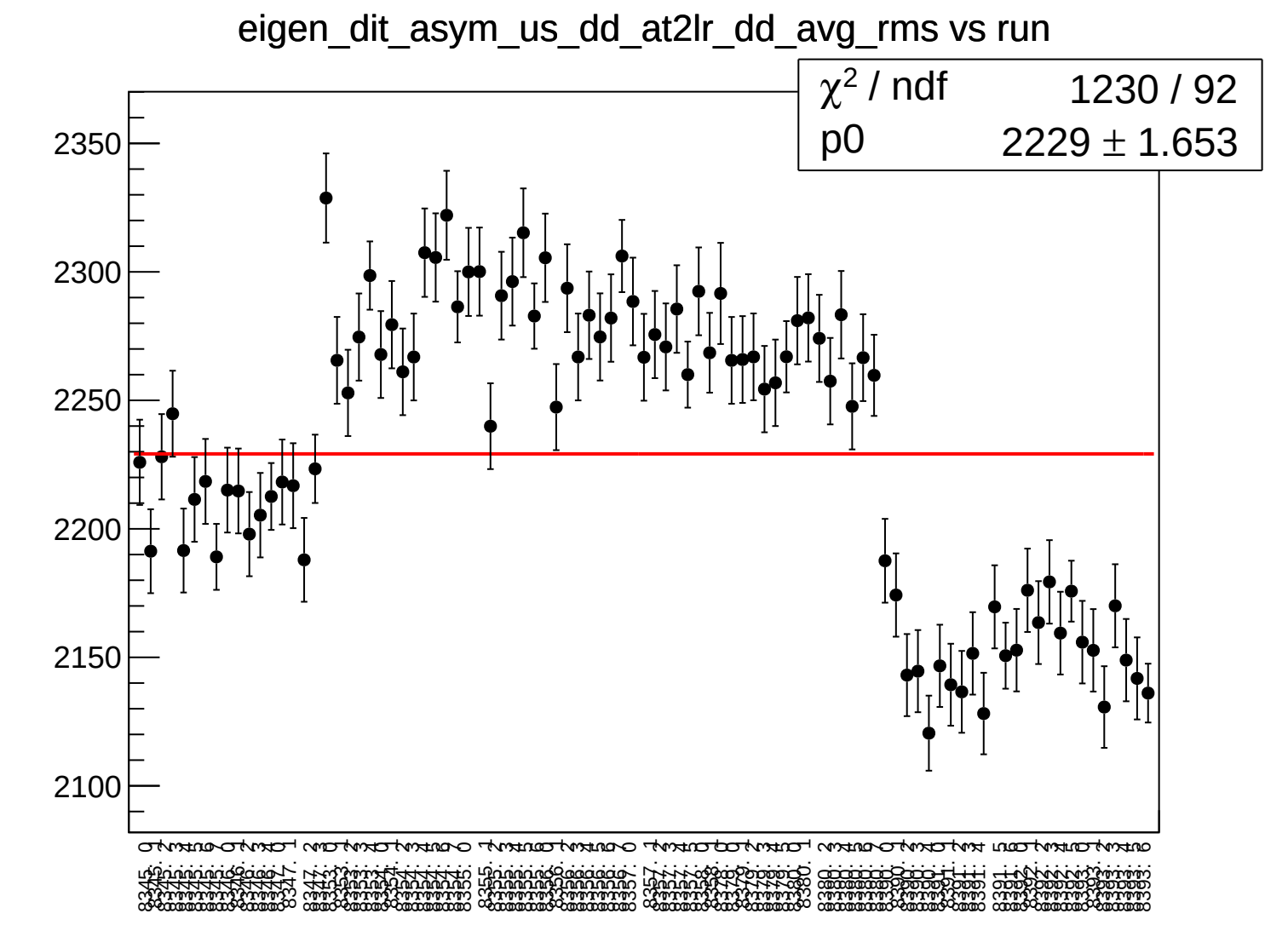

dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 1230 / 92
p0 2229 ± 1.653
2350
2300
2250
2200
2150
2100

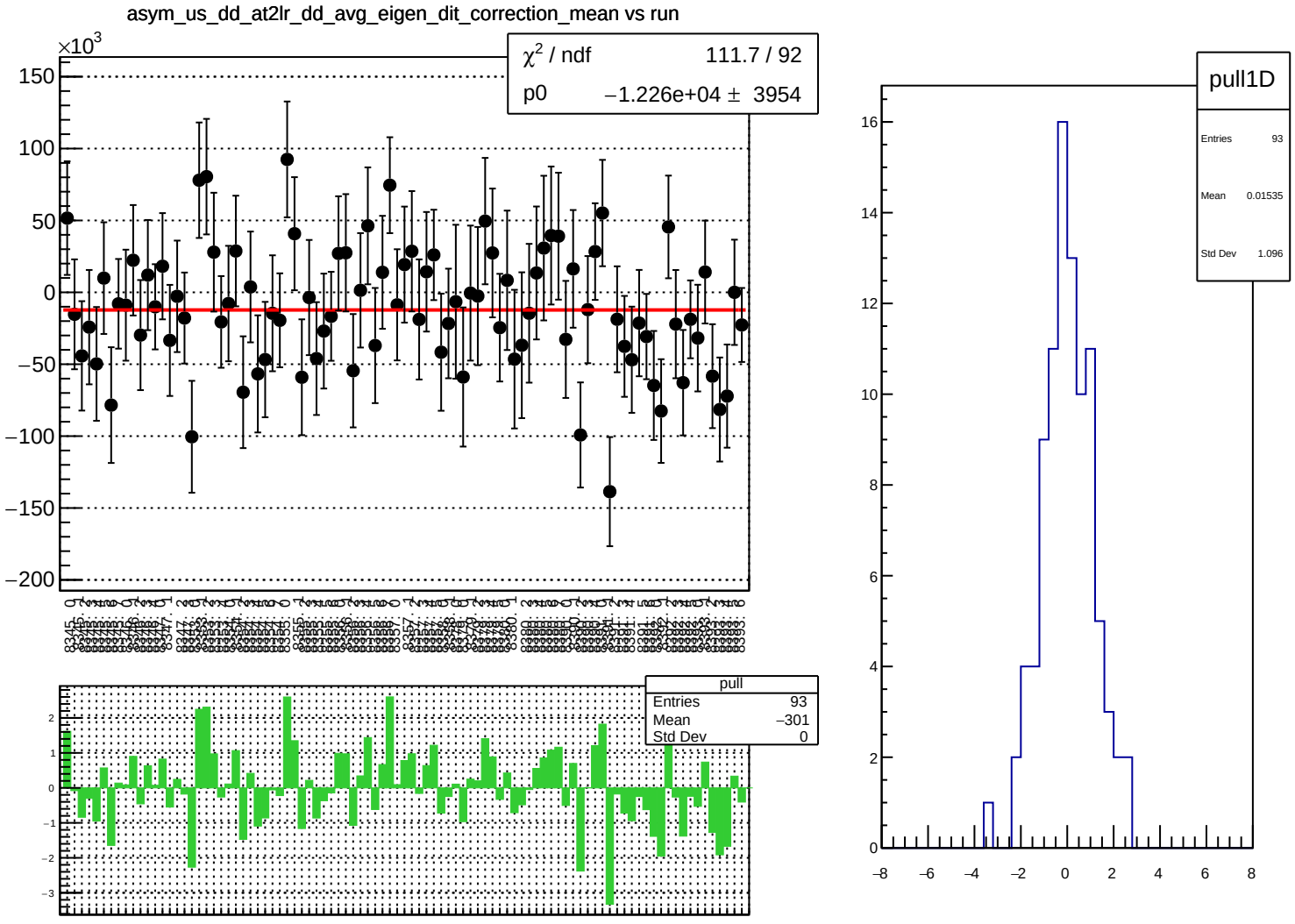

asym_us_dd_at2lr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 111.7 / 92
p0 −1.226e+04 ± 3954
pull
Entries 93
Mean −301
Std Dev 0
pull1D
Entries 93
Mean 0.01535
Std Dev 1.096

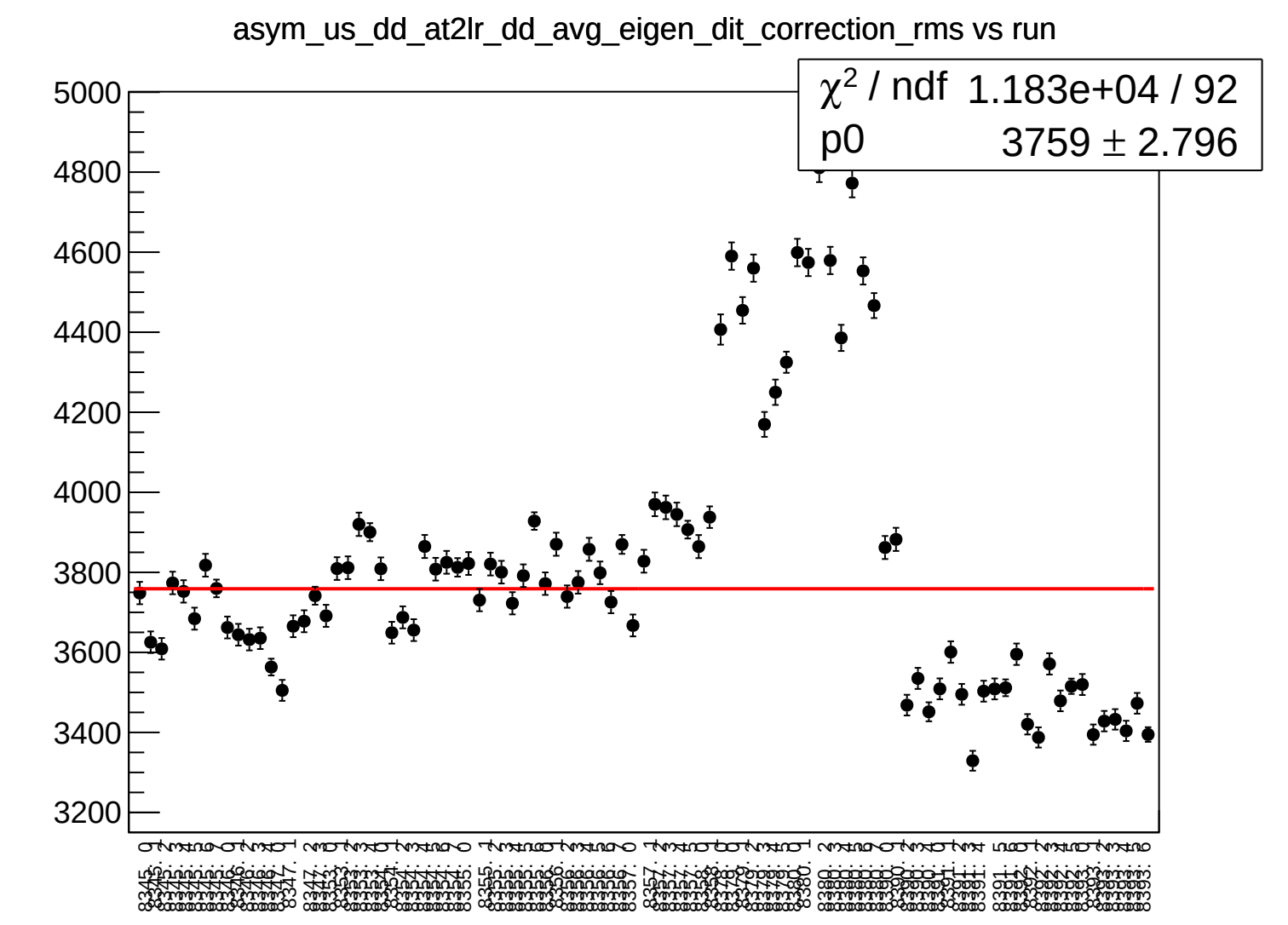

asym_us_dd_at2lr_dd_avg_dit_correction_rms vs run
χ² / ndf 1.183e+04 / 92
p0 3759 ± 2.796
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

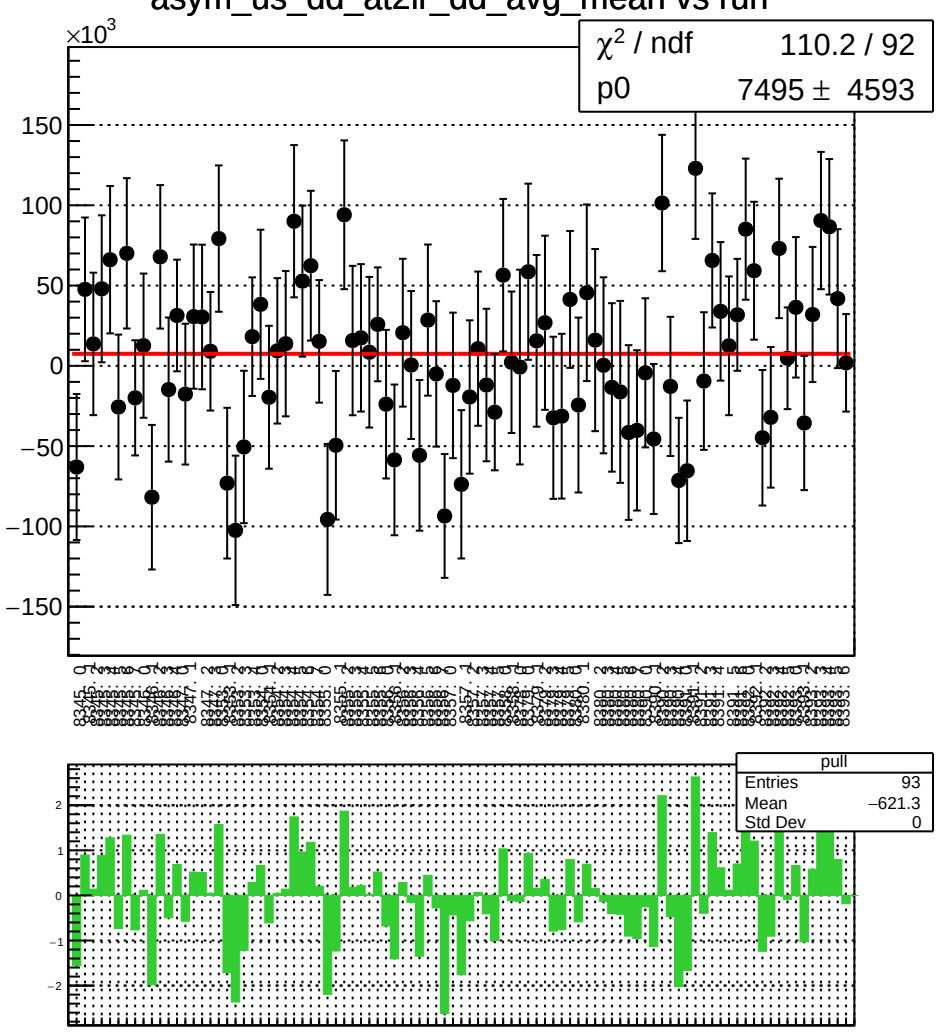

eigen_dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 86.55 / 92
p0 −4315 ± 2338
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean −344
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

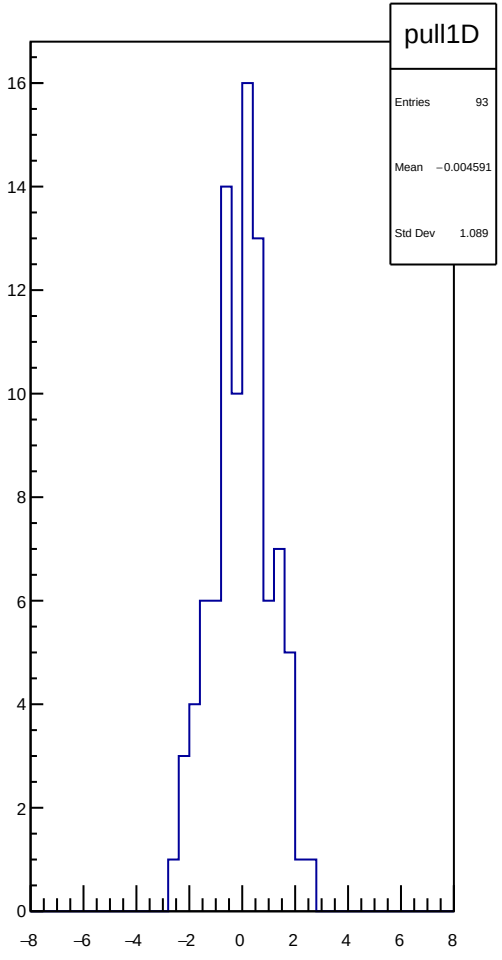

pull1D
Entries 93
Mean 0.007178
Std Dev 0.9647
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

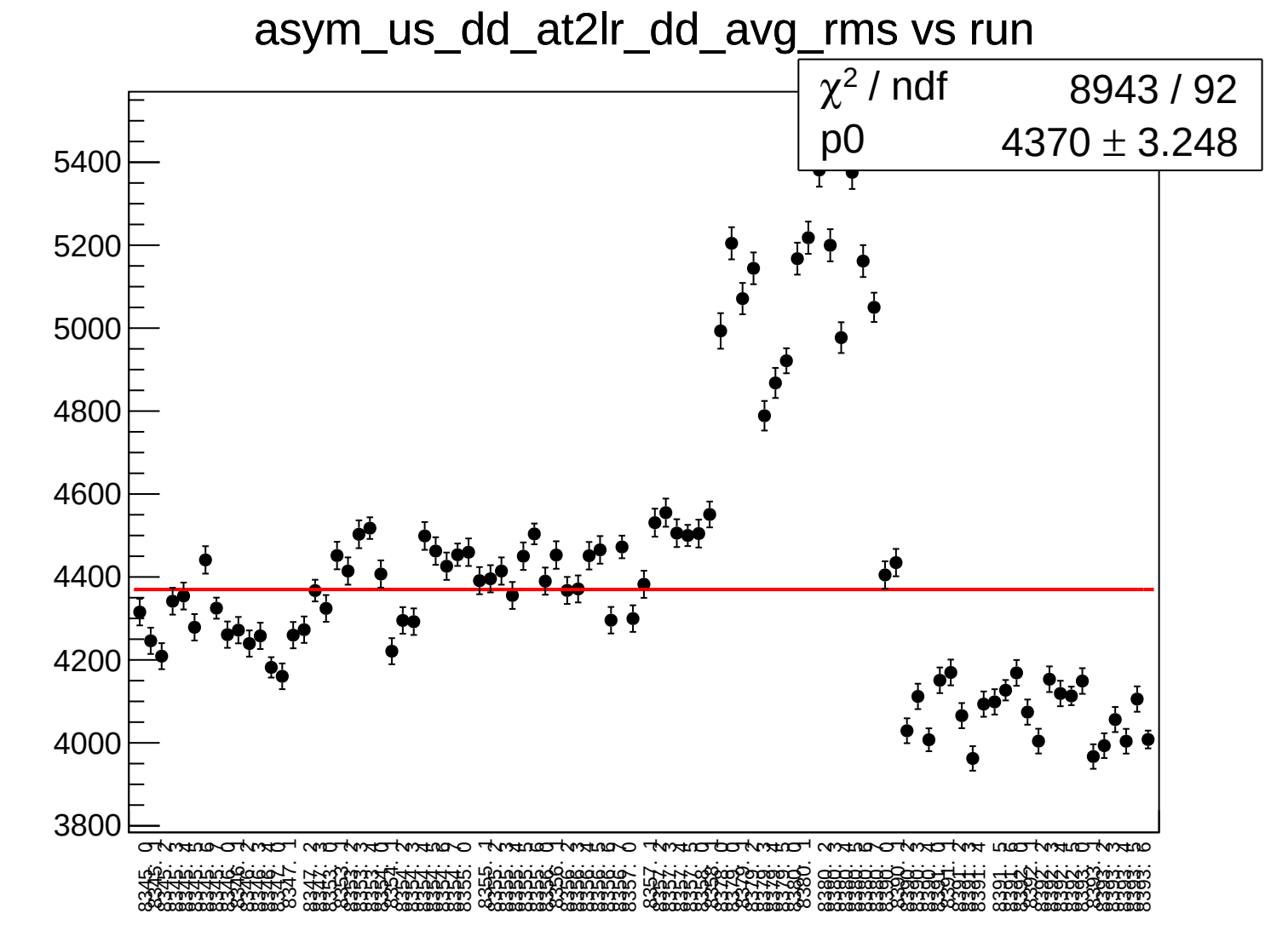

eigen_dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 1230 / 92
p0 2229 ± 1.653
2350
2300
2250
2200
2150
2100

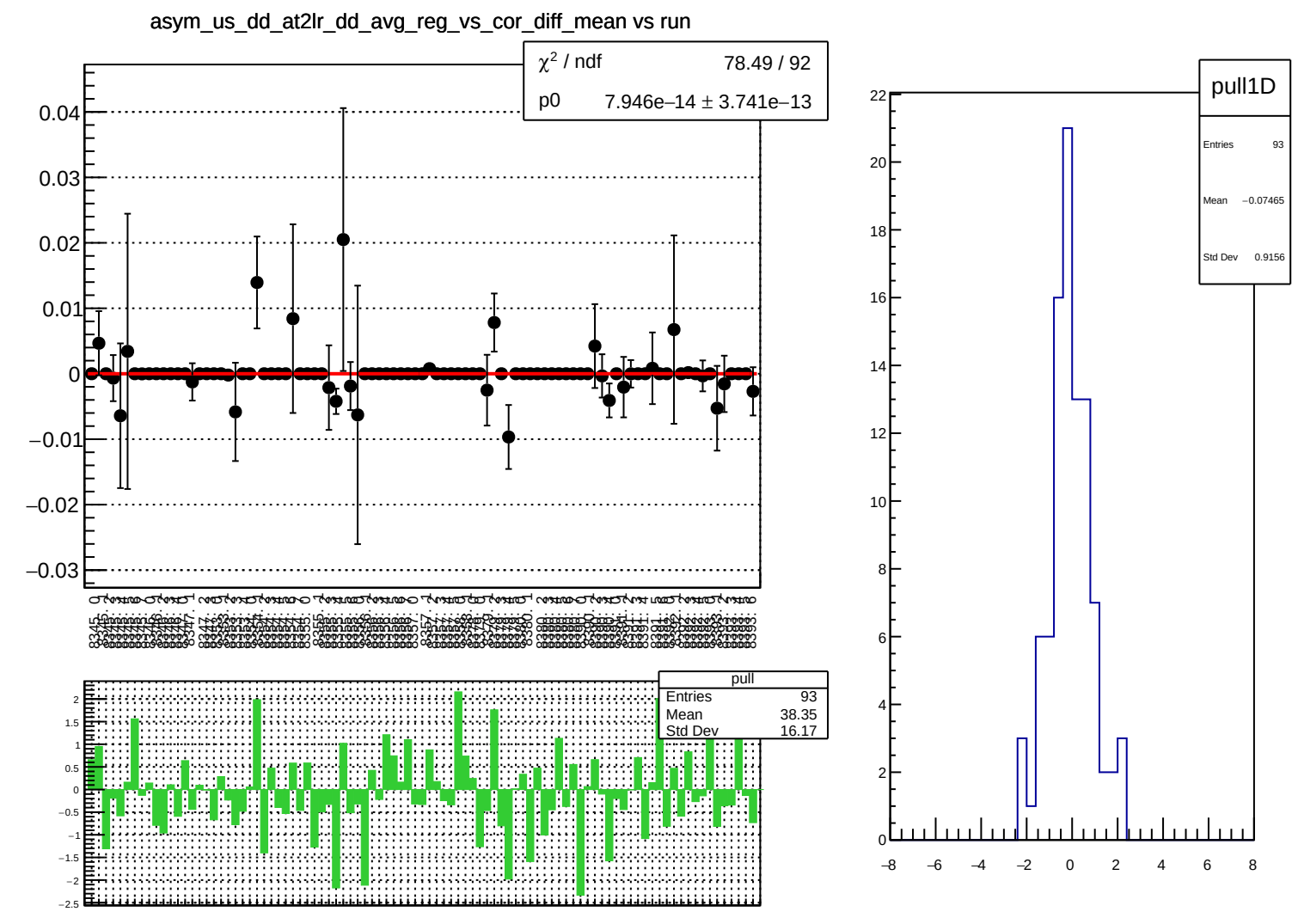

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 111.7 / 92
p0 −1.226e+04 ± 3954
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean −301
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.01535
Std Dev 1.096
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

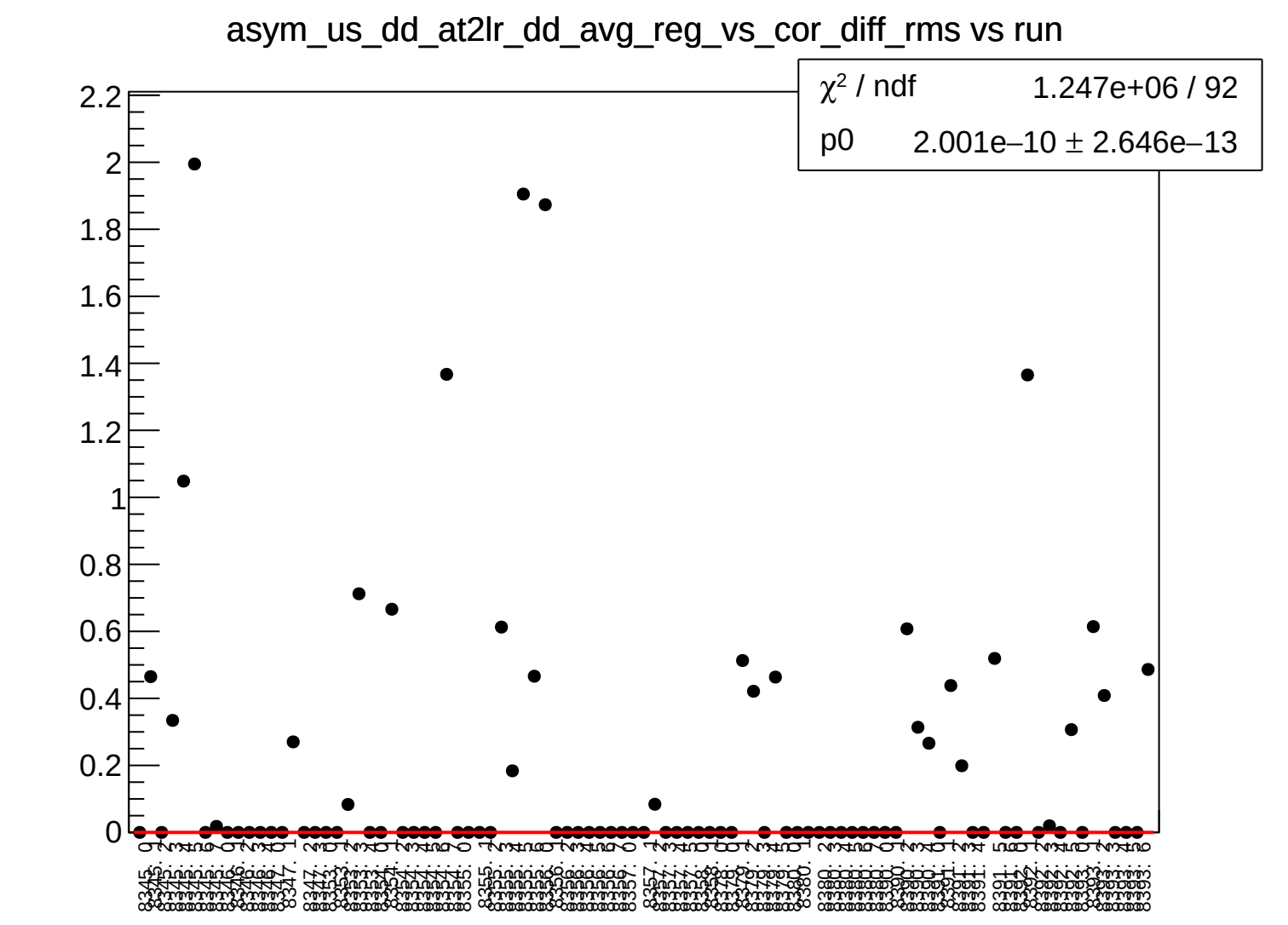

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.183e+04 / 92
p0 3759 ± 2.796
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

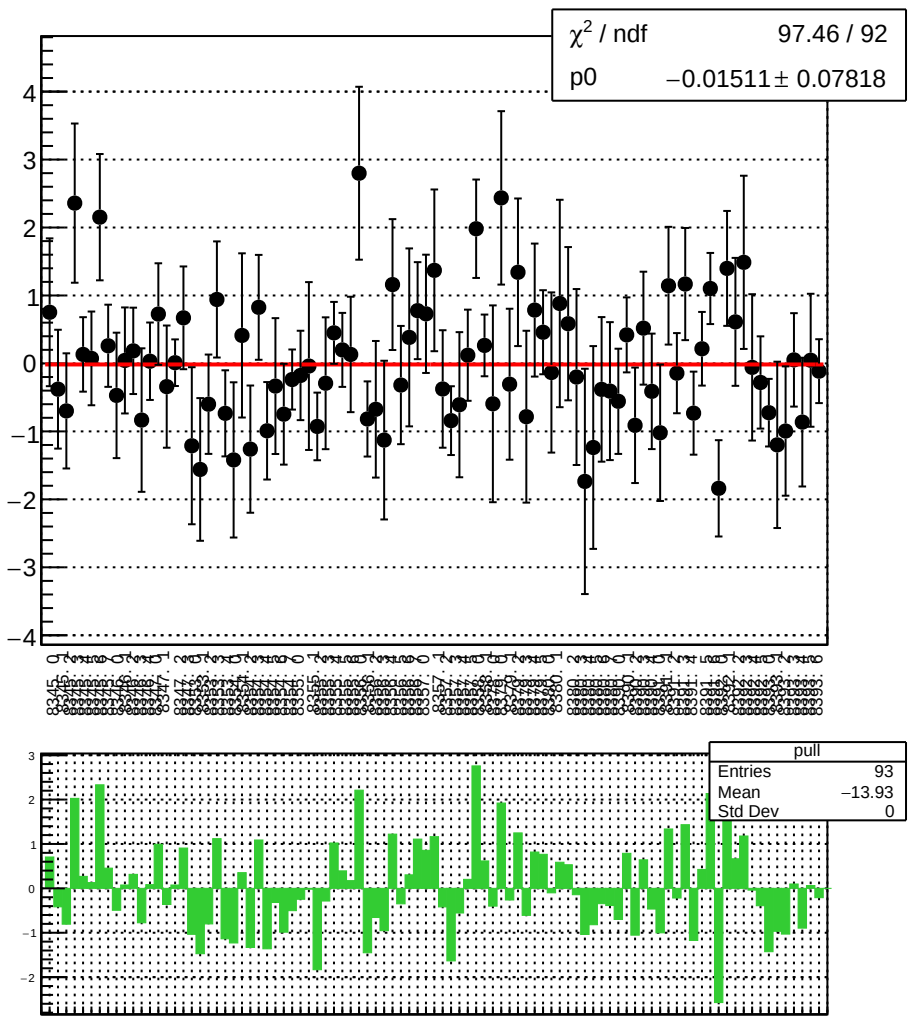

asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ^2 / ndf 110.2 / 92
p0 7495 ± 4593
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean −621.3
Std Dev 0
2
1
0
−1
−2

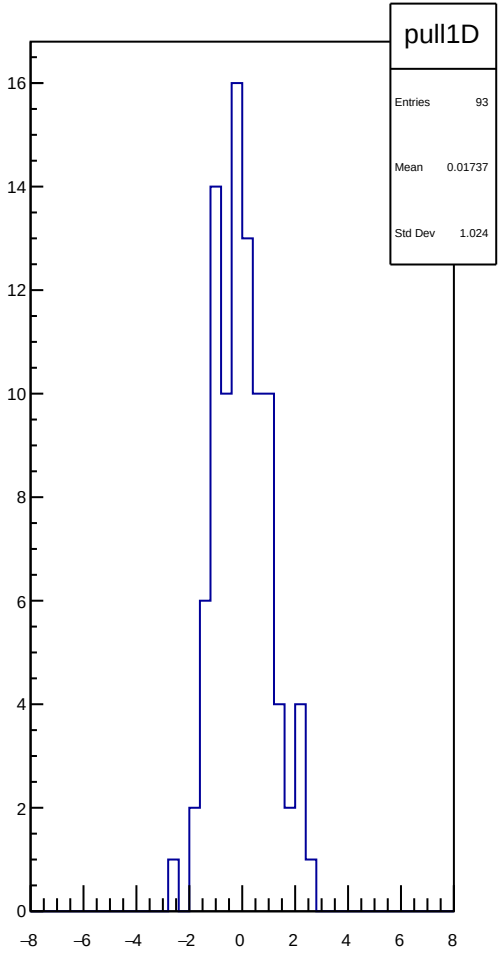

pull1D
Entries 93
Mean −0.004591
Std Dev 1.089
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

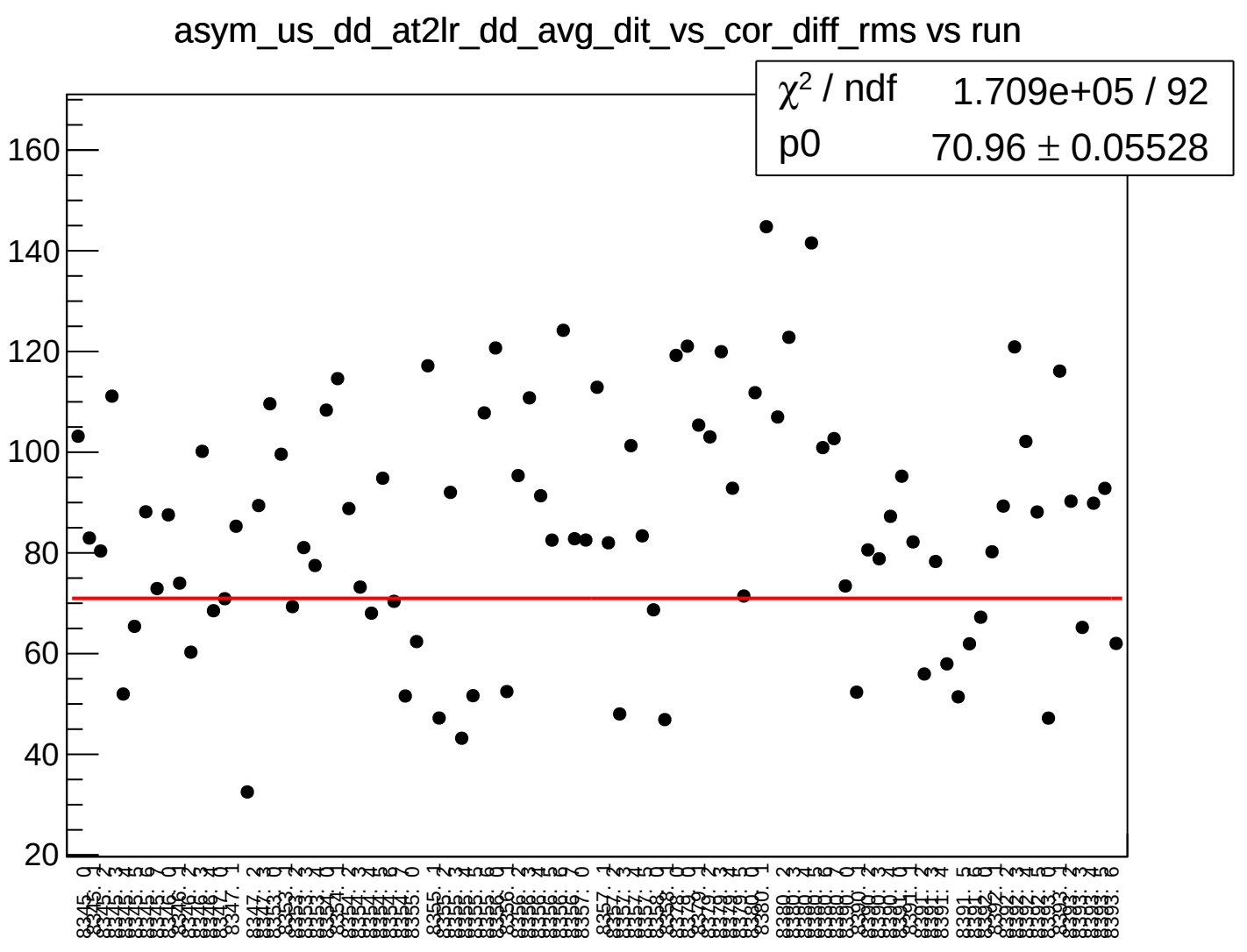

asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 8943 / 92
p0 4370 ± 3.248
5400
5200
5000
4800
4600
4400
4200
4000
3800

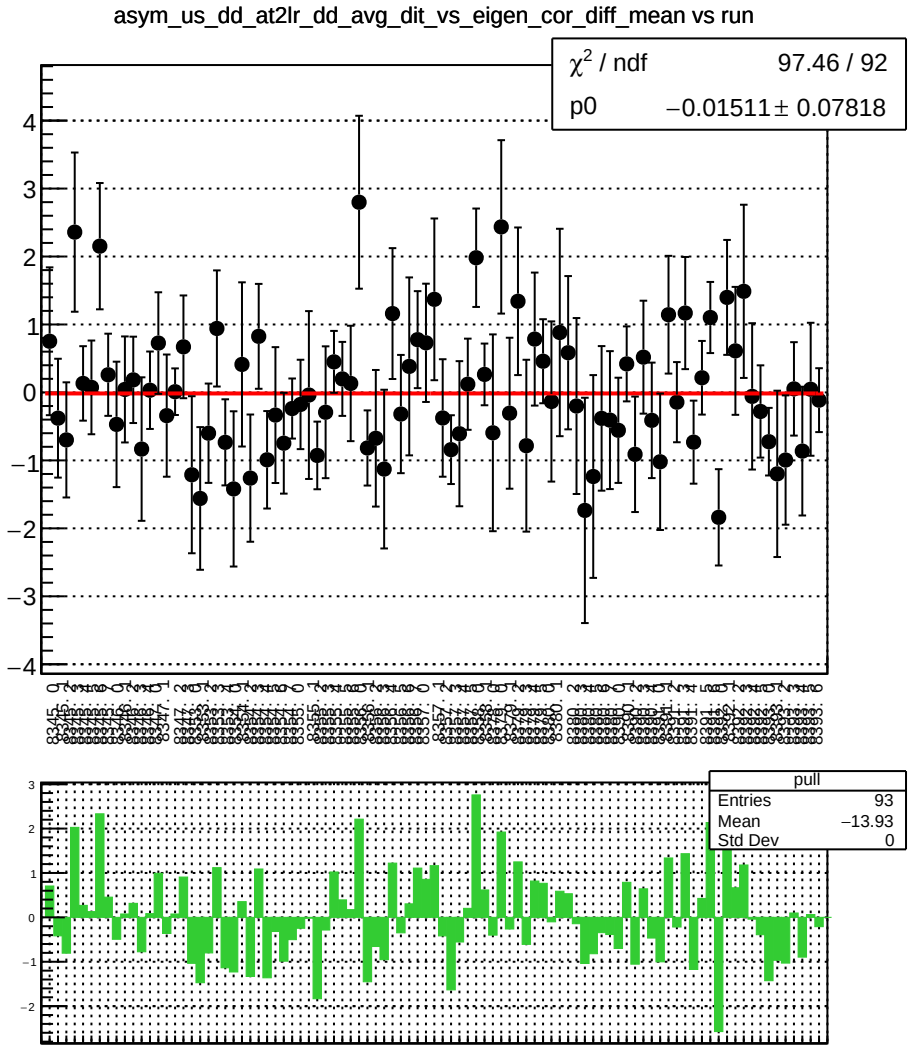

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 78.49 / 92
p0 7.946e−14 ± 3.741e−13
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 93
Mean 38.35
Std Dev 16.17
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 93
Mean −0.07465
Std Dev 0.9156
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

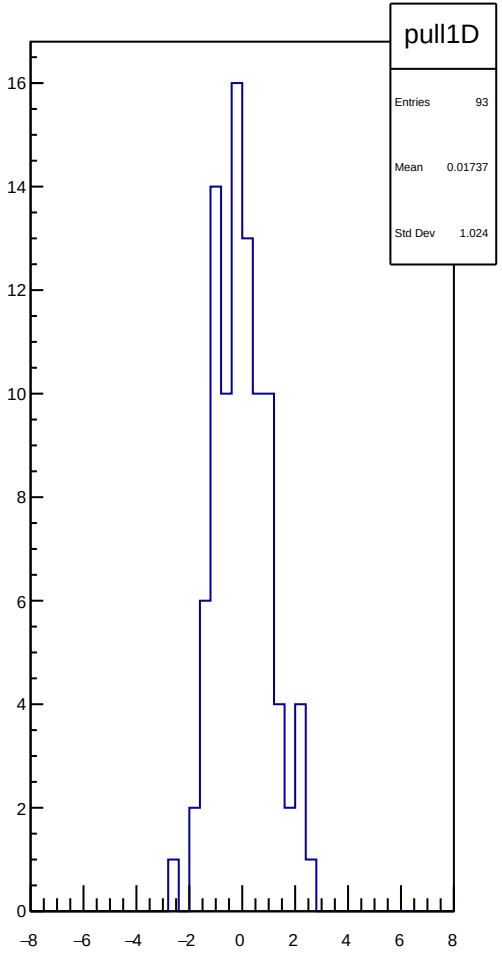

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.247e+06 / 92
p0 2.001e−10 ± 2.646e−13
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

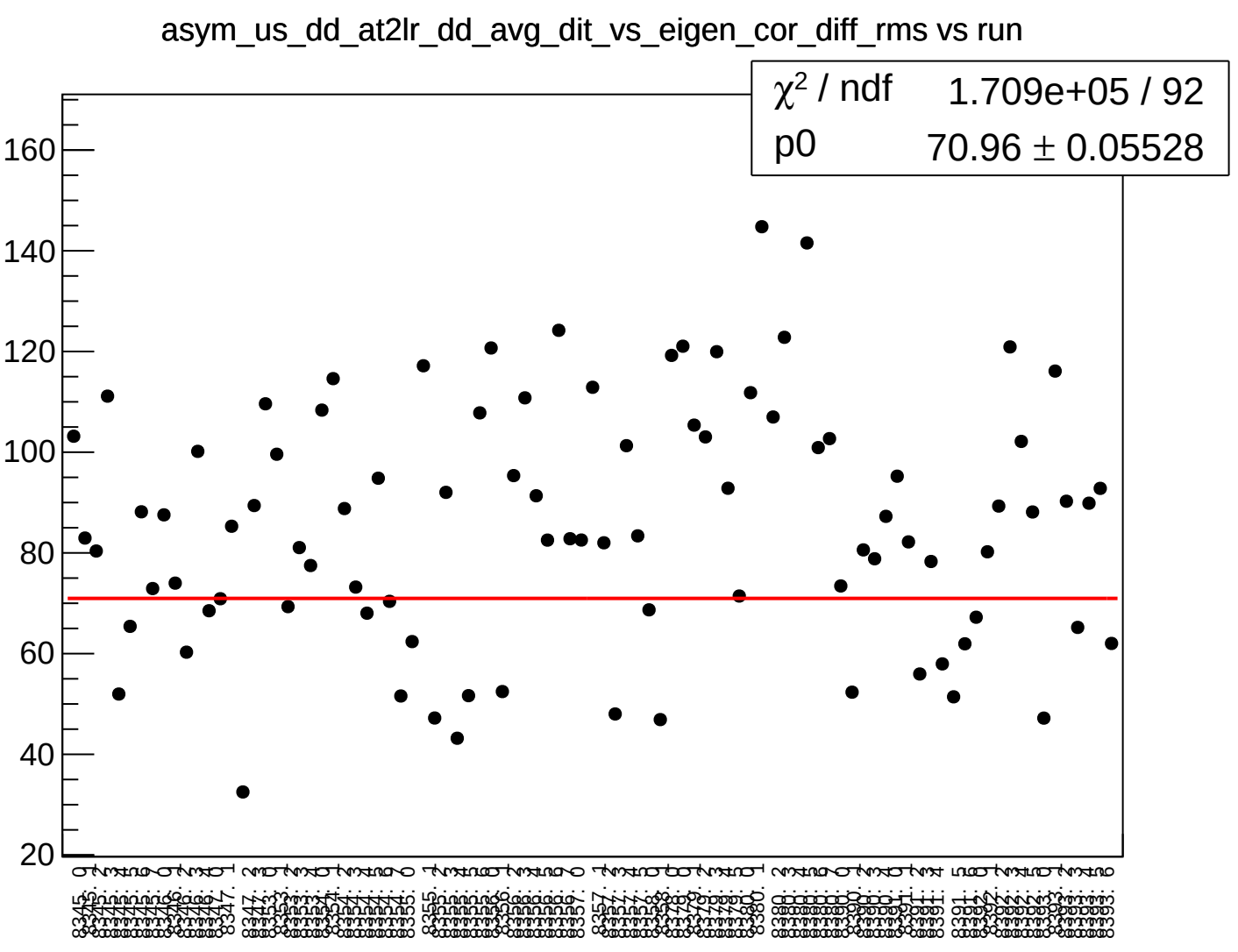

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 97.46 / 92
p0 −0.01511 ± 0.07818
pull
Entries 93
Mean −13.93
Std Dev 0

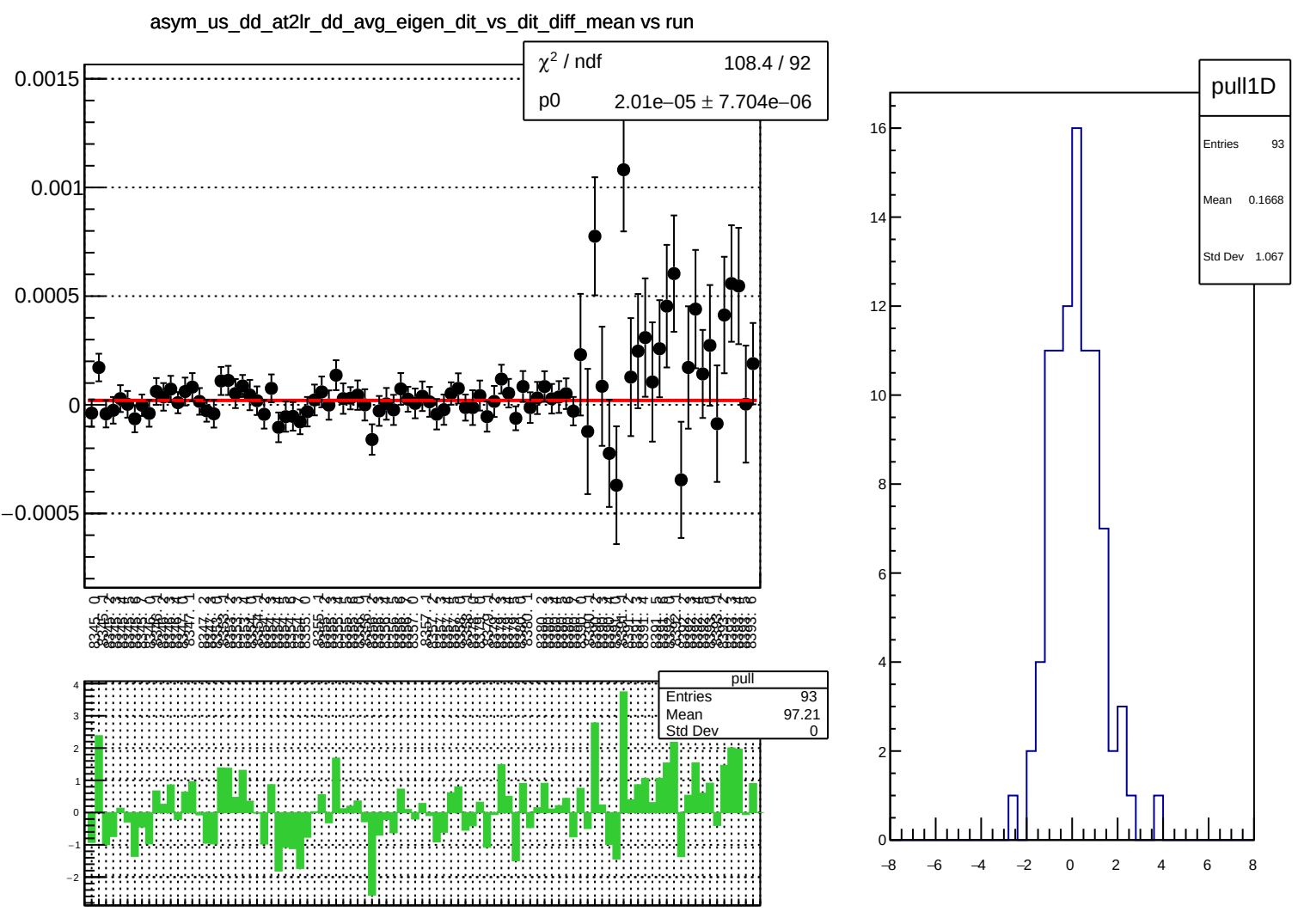

pull1D
Entries 93
Mean 0.01737
Std Dev 1.024

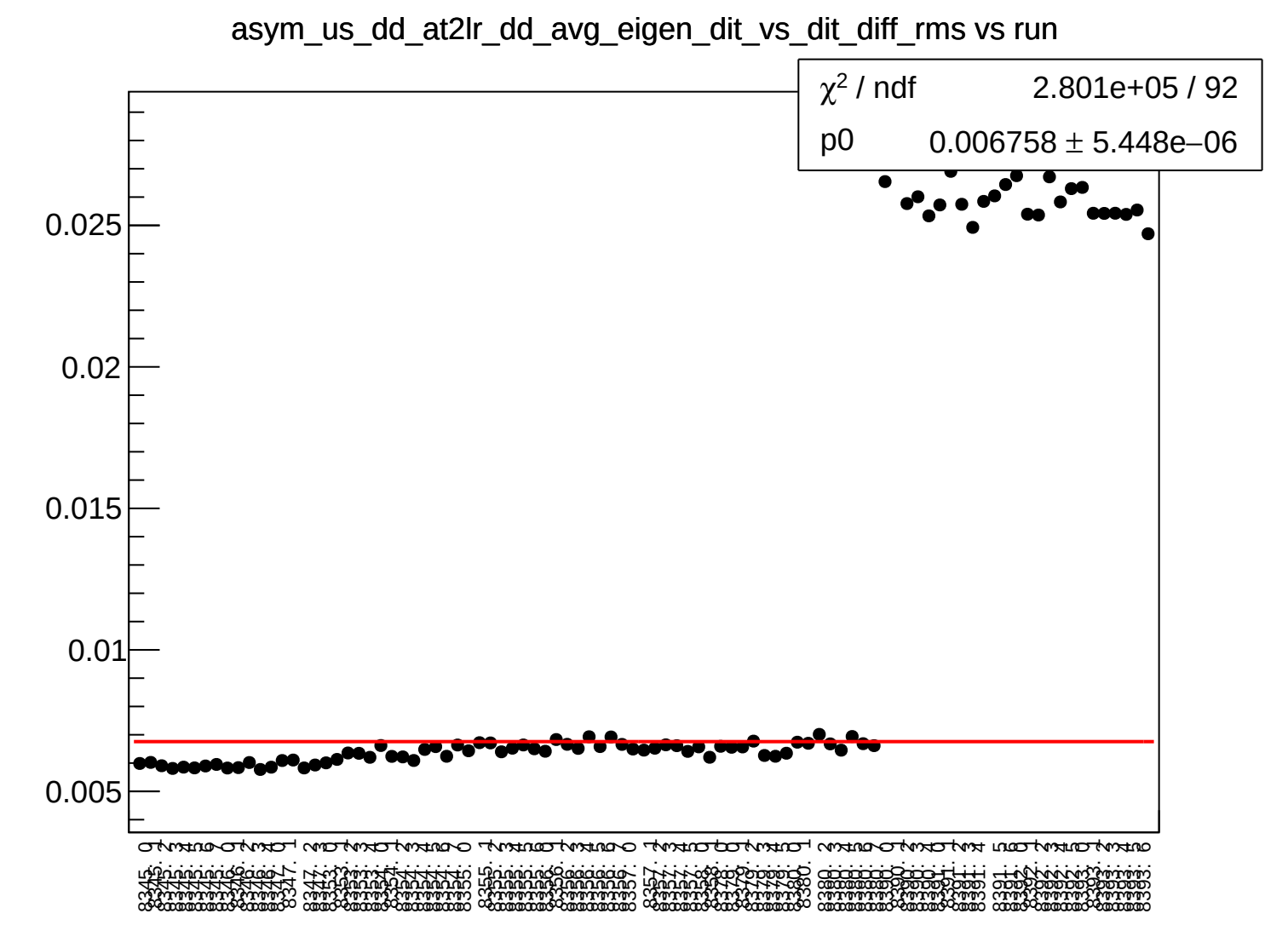

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.709e+05 / 92
p0 70.96 ± 0.05528
160
140
120
100
80
60
40
20

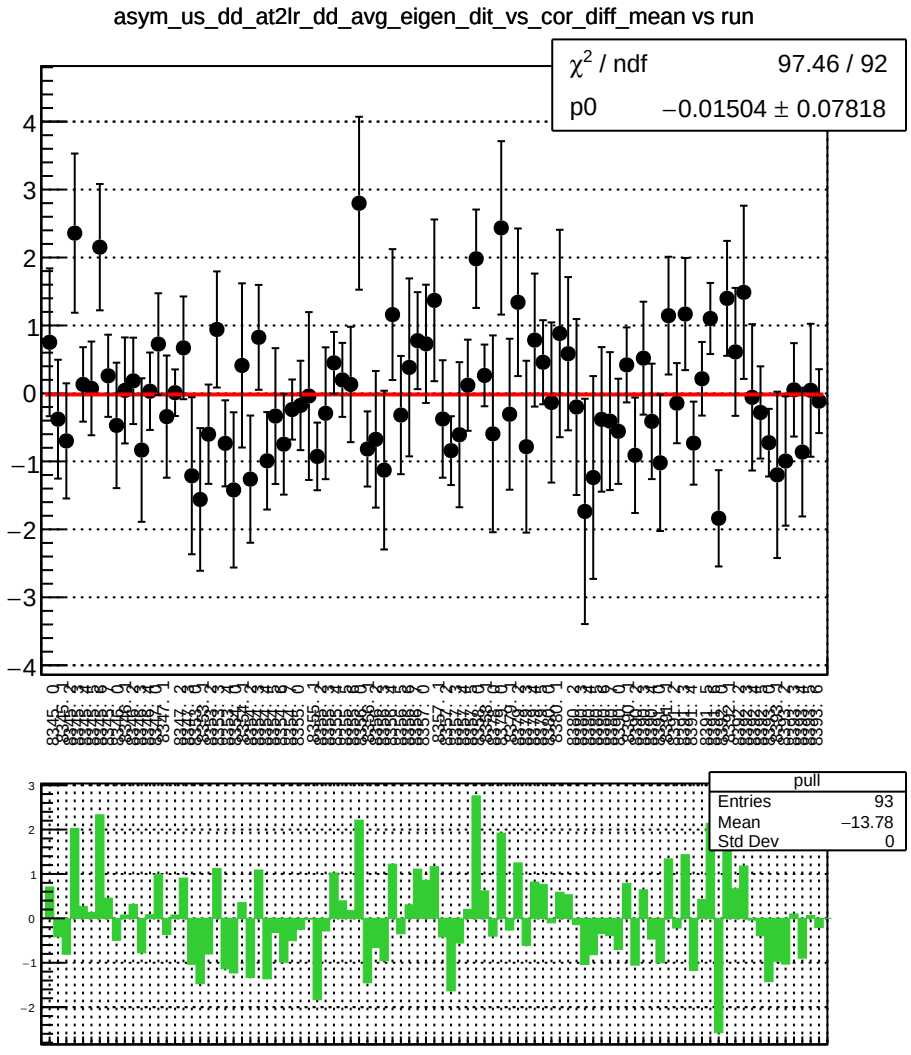

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.46 / 92
p0 −0.01511 ± 0.07818
pull
Entries 93
Mean −13.93
Std Dev 0

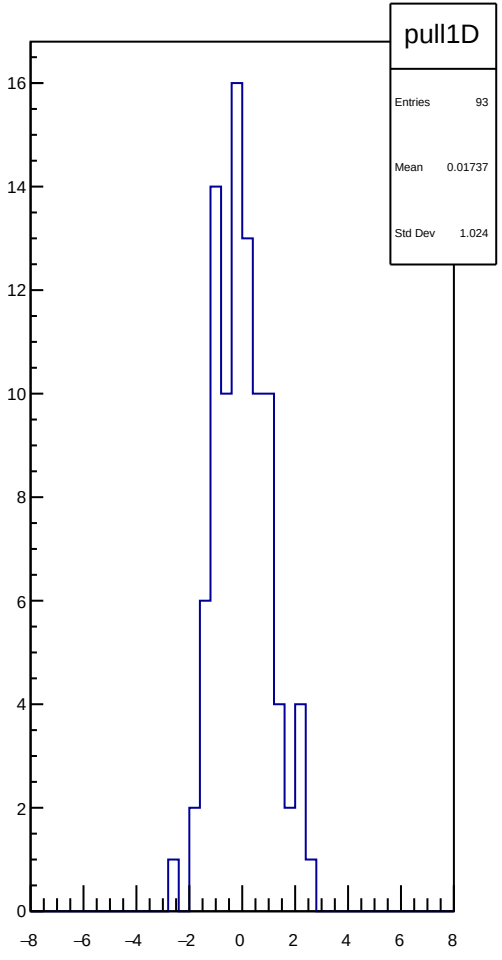

pull1D
Entries 93
Mean 0.01737
Std Dev 1.024

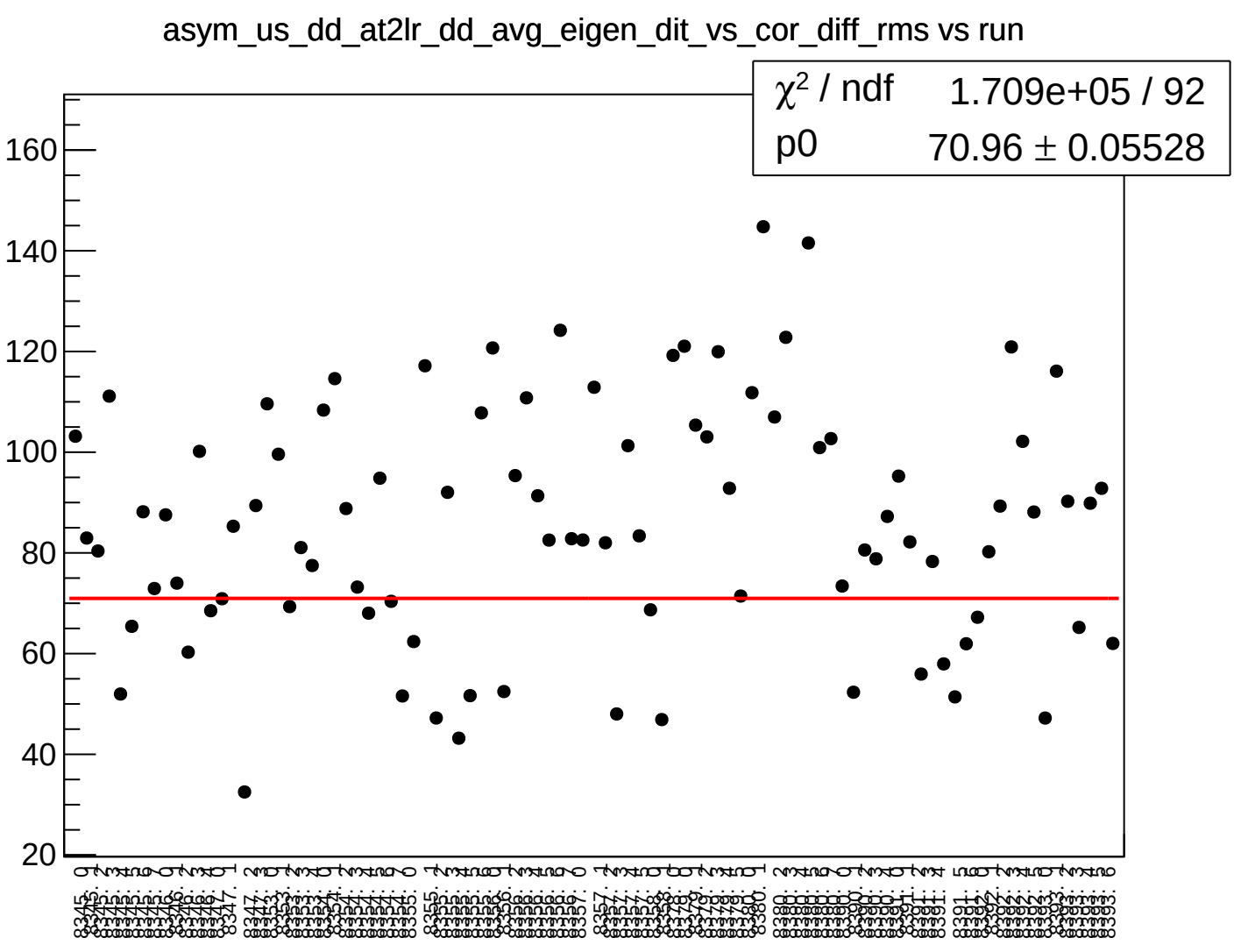

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.709e+05 / 92
p0 70.96 ± 0.05528
160
140
120
100
80
60
40
20

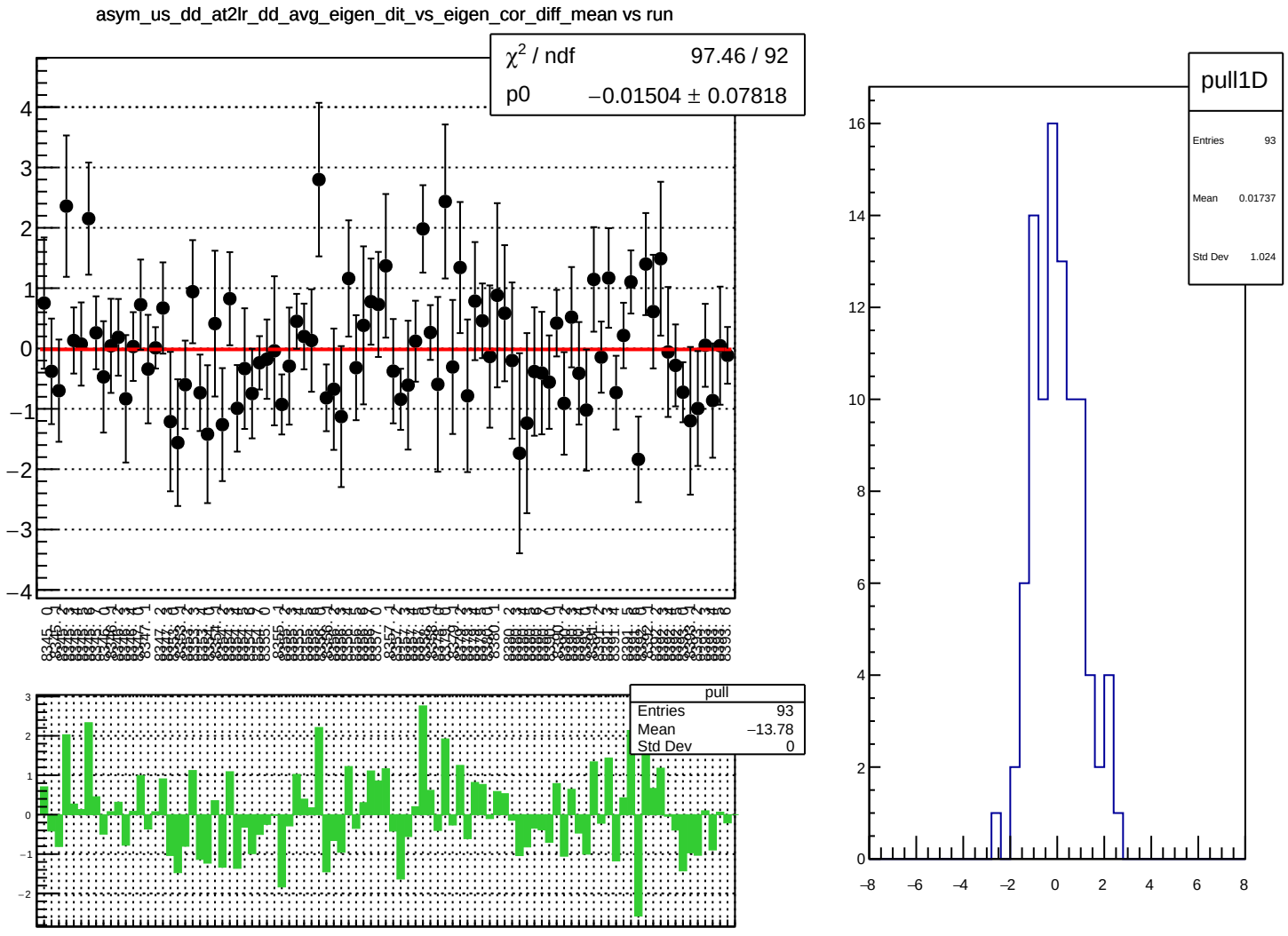

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 108.4 / 92
p0 2.01e−05 ± 7.704e−06
0.0015
0.001
0.0005
0
−0.0005
pull
Entries 93
Mean 97.21
Std Dev 0
pull1D
Entries 93
Mean 0.1668
Std Dev 1.067

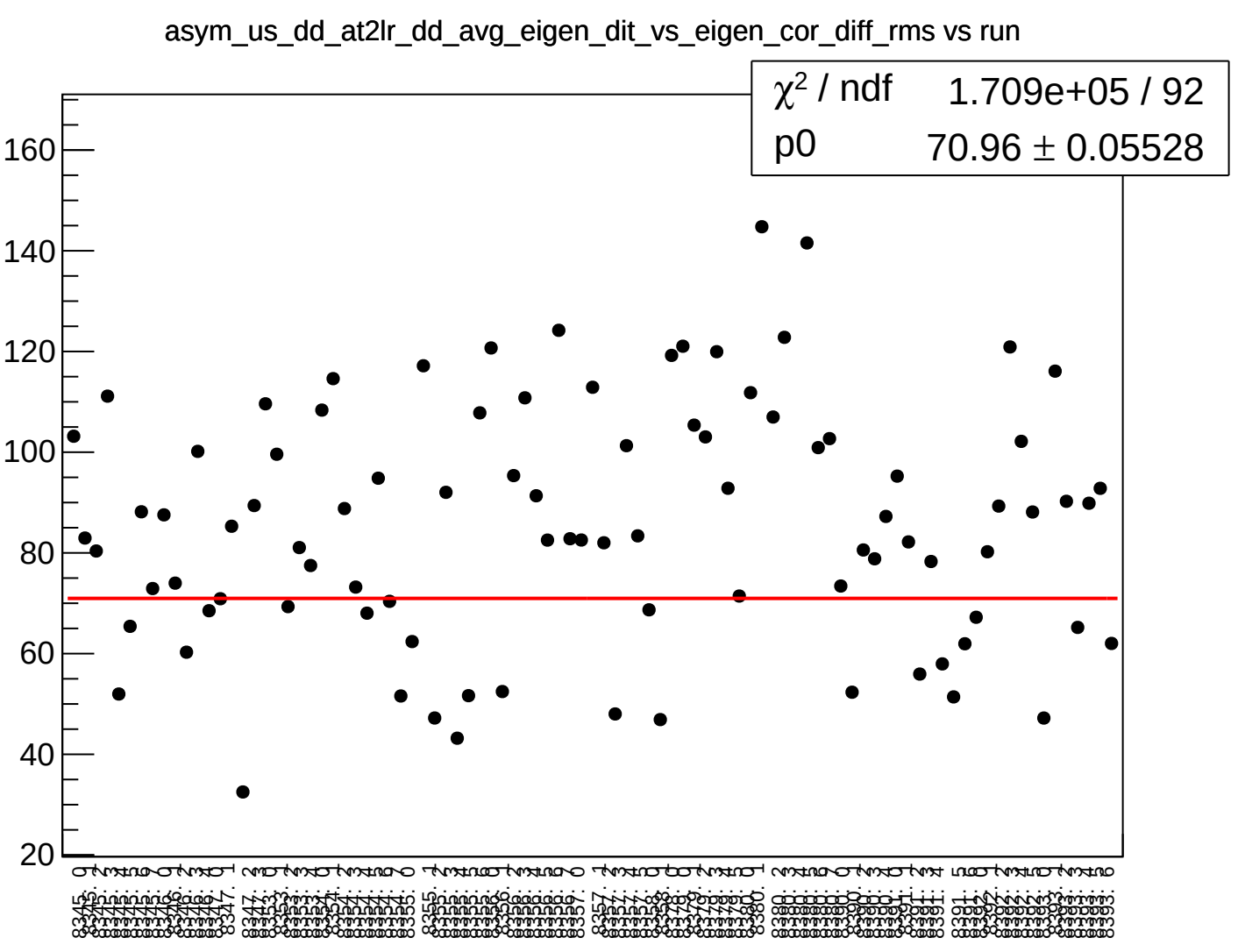

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.801e+05 / 92
p0 0.006758 ± 5.448e−06
0.025
0.02
0.015
0.01
0.005

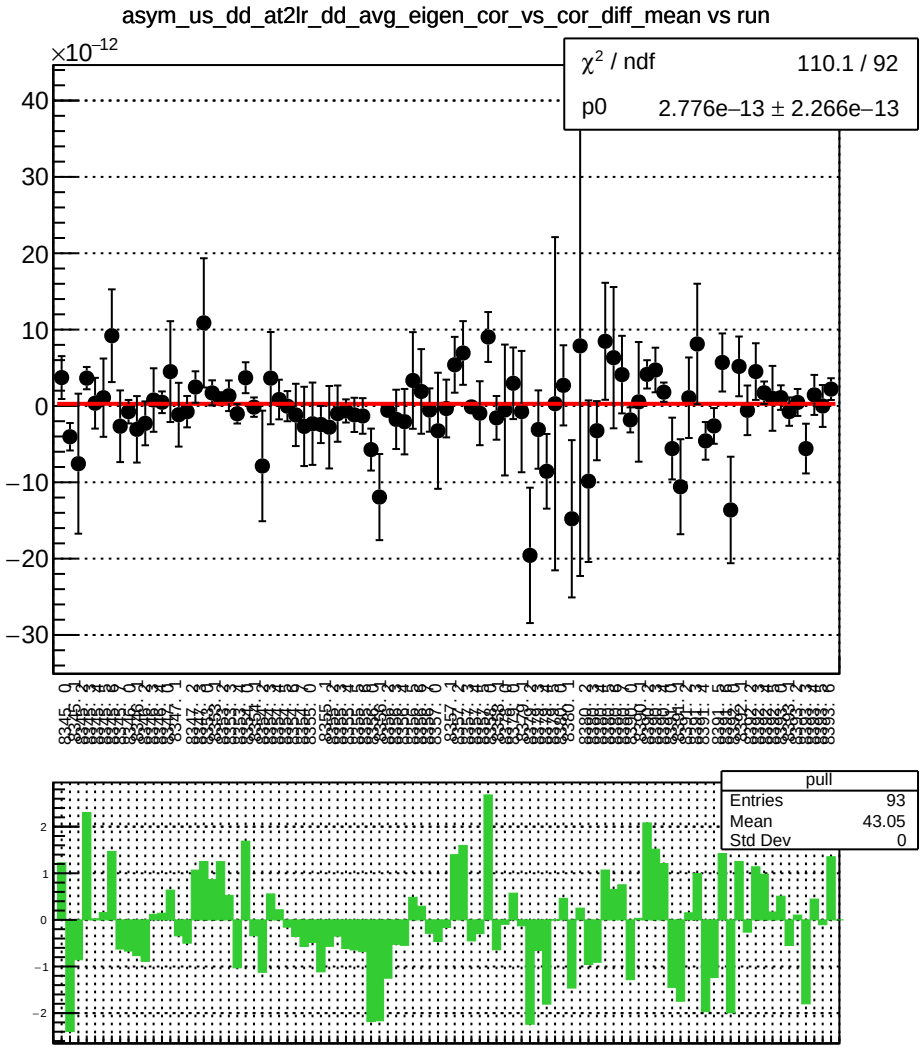

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.46 / 92
p0 −0.01504 ± 0.07818
pull
Entries 93
Mean −13.78
Std Dev 0

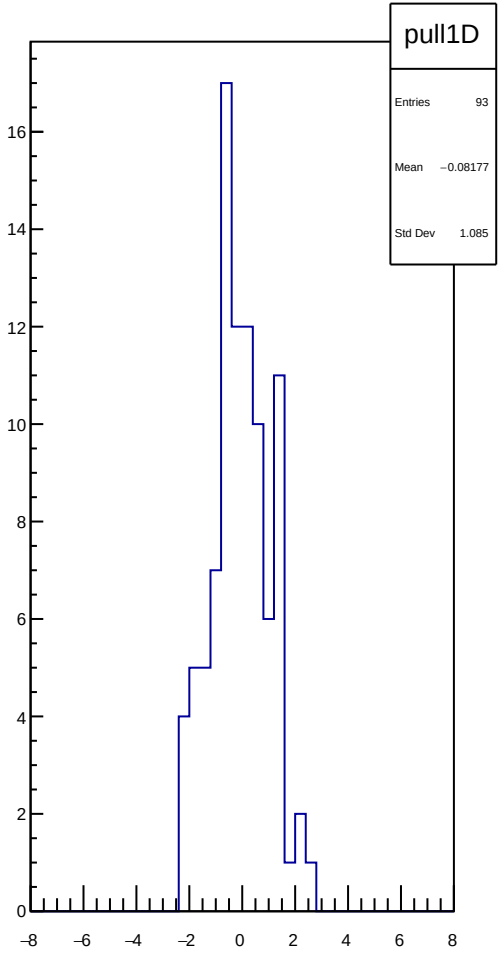

pull1D
Entries 93
Mean 0.01737
Std Dev 1.024

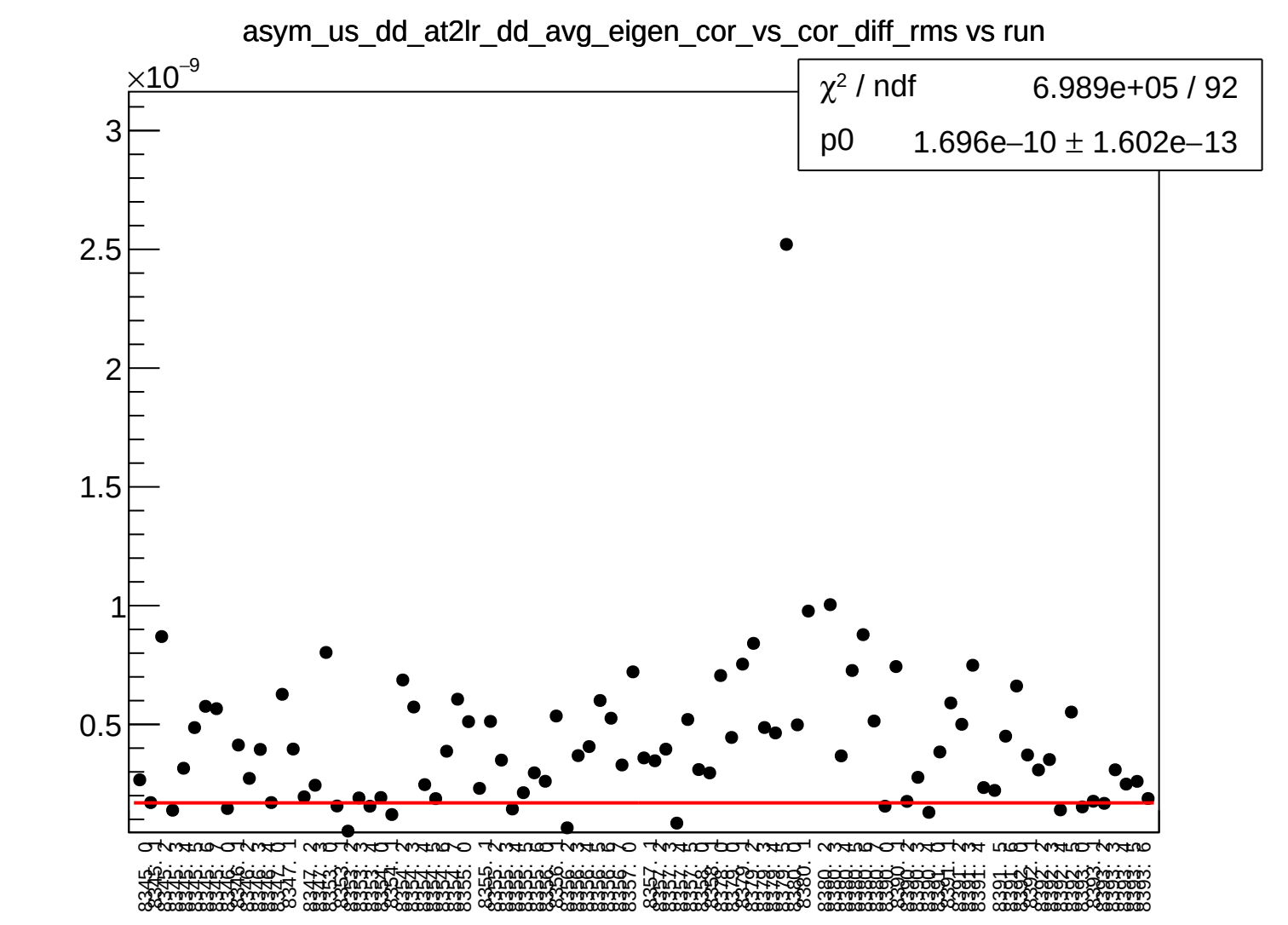

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.709e+05 / 92
p0 70.96 ± 0.05528
160
140
120
100
80
60
40
20

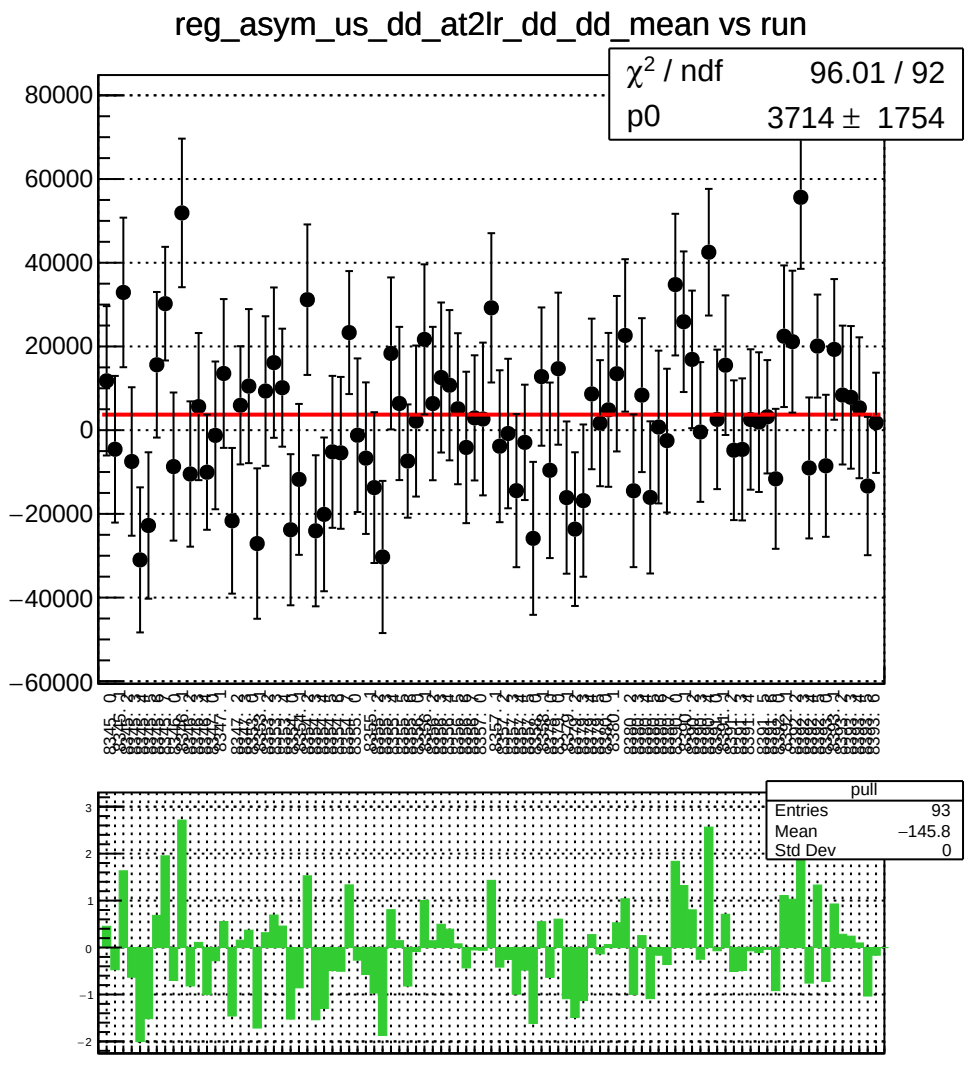

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.46 / 92
p0 −0.01504 ± 0.07818
pull
Entries 93
Mean −13.78
Std Dev 0
pull1D
Entries 93
Mean 0.01737
Std Dev 1.024

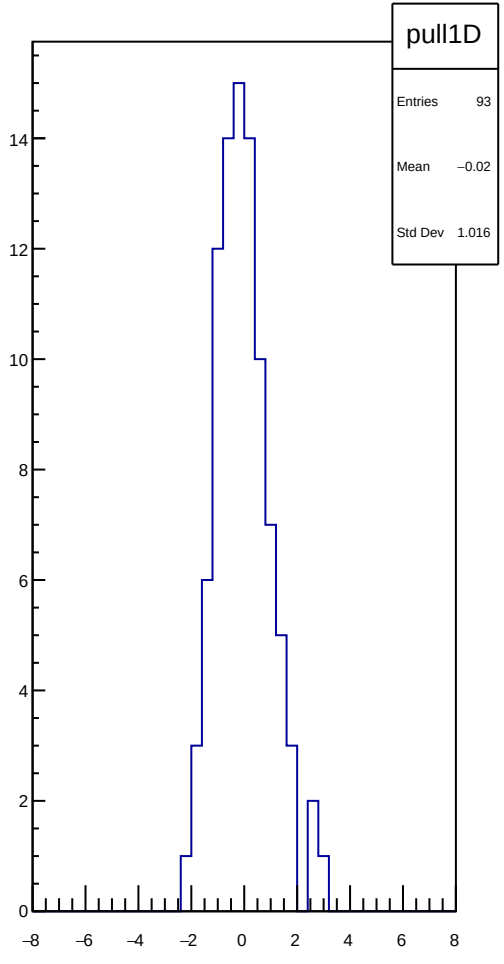

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.709e+05 / 92
p0 70.96 ± 0.05528
160
140
120
100
80
60
40
20

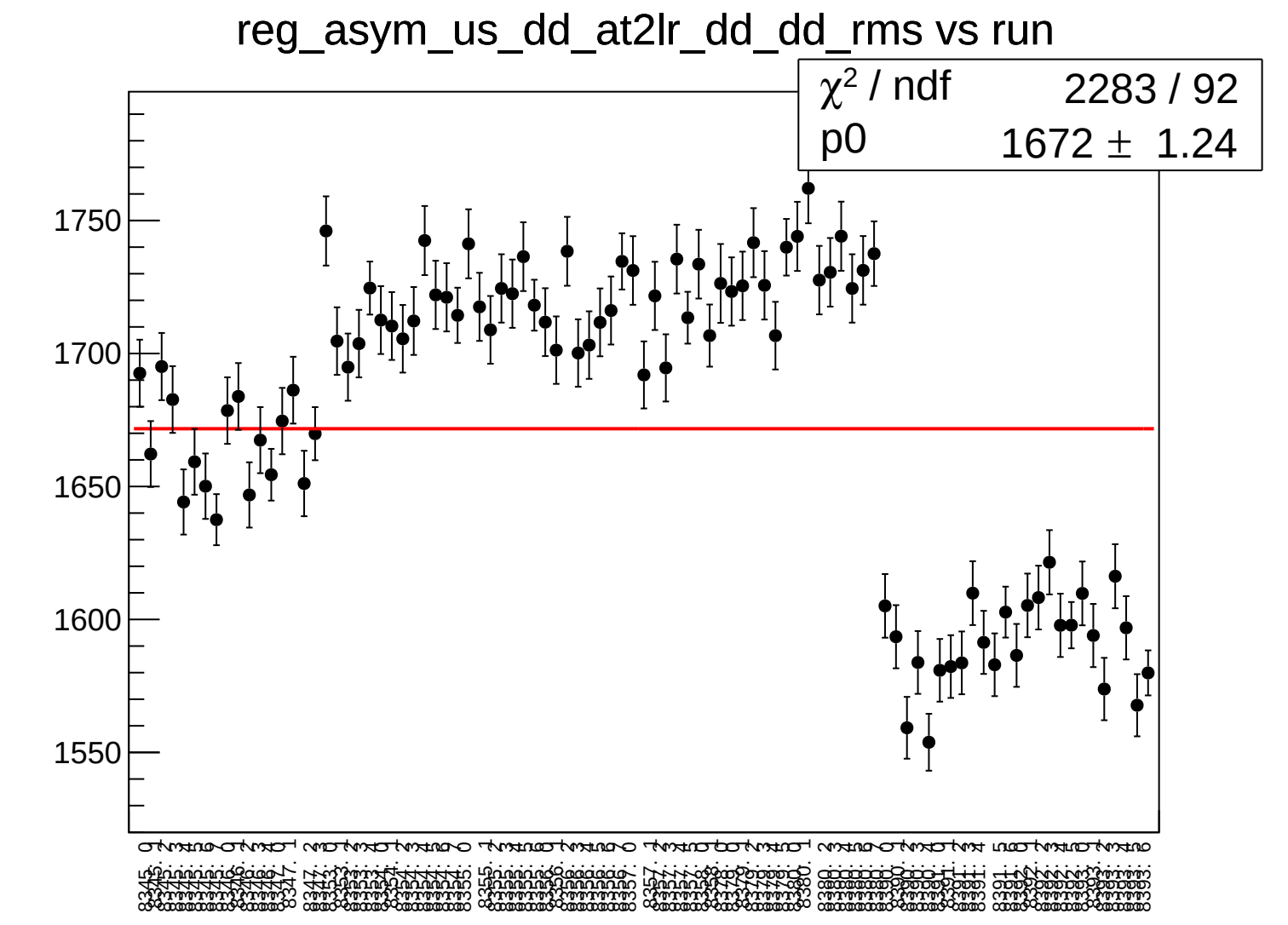

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 110.1 / 92
p0 2.776e−13 ± 2.266e−13
pull
Entries 93
Mean 43.05
Std Dev 0

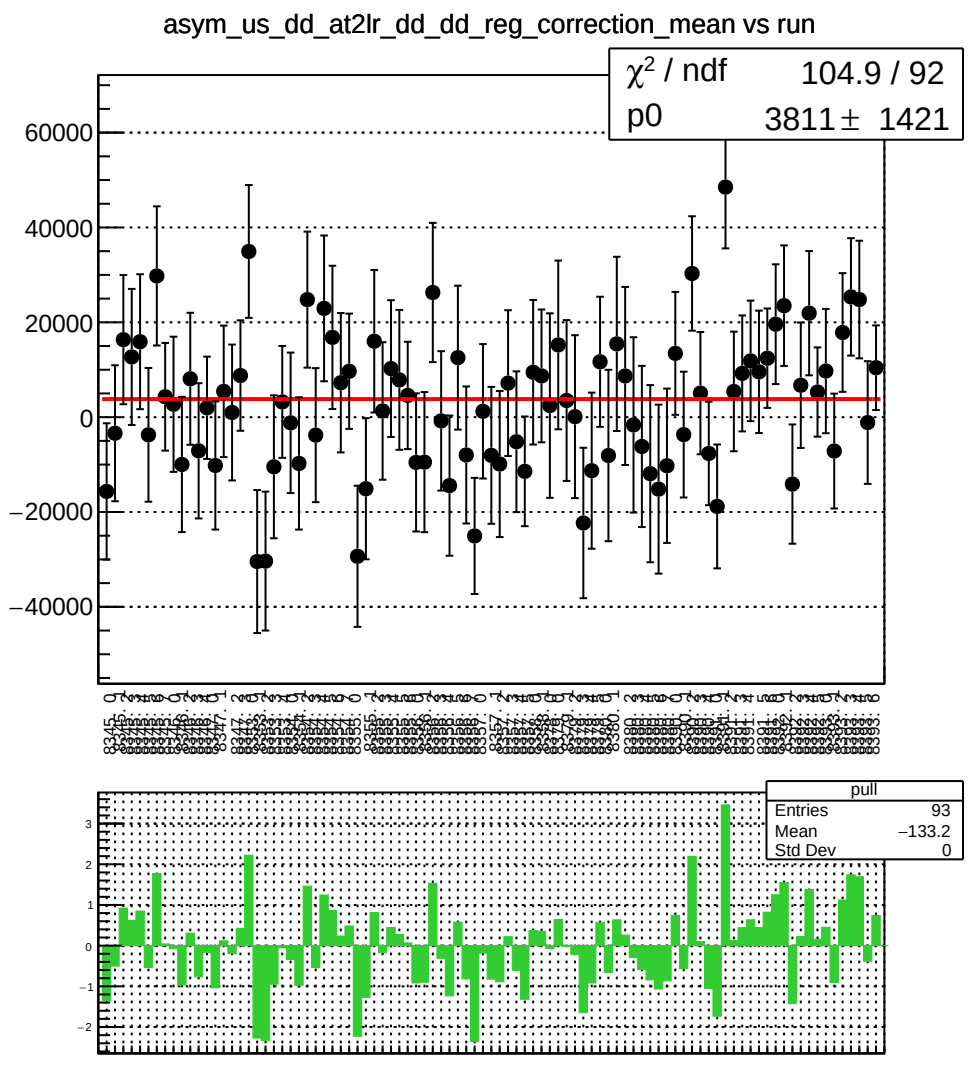

pull1D
Entries 93
Mean −0.08177
Std Dev 1.085

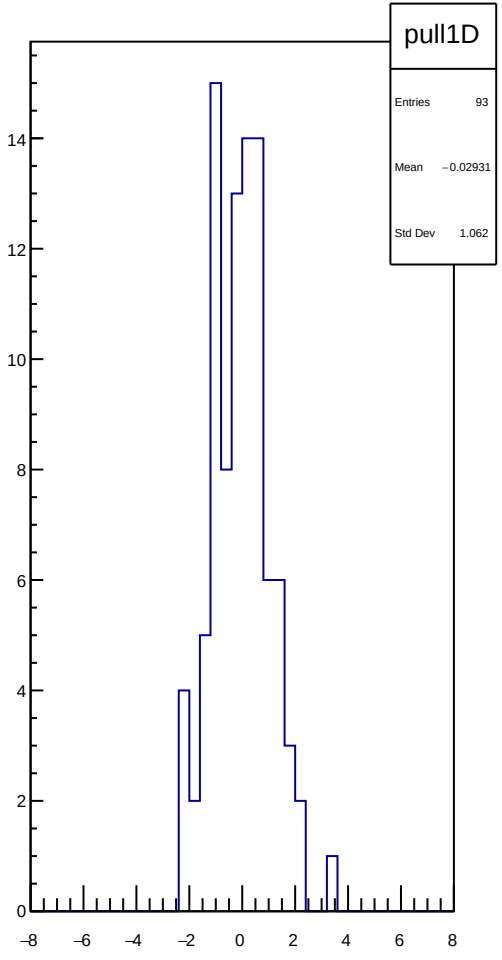

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.989e+05 / 92
p0 1.696e−10 ± 1.602e−13
3
2.5
2
1.5
1
0.5

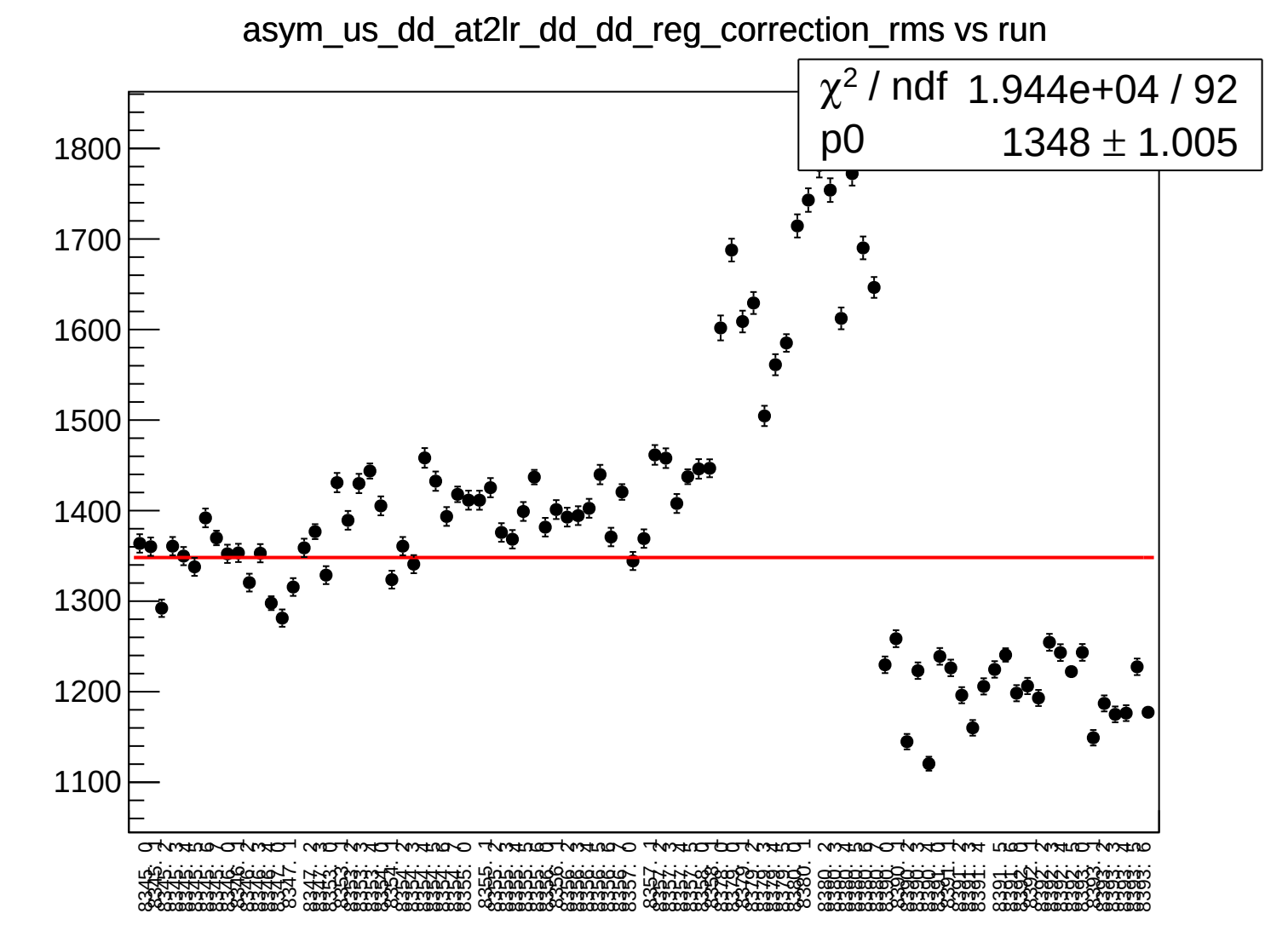

reg_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 96.01 / 92
p0 3714 ± 1754
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −145.8
Std Dev 0
3
2
1
0
−1
−2

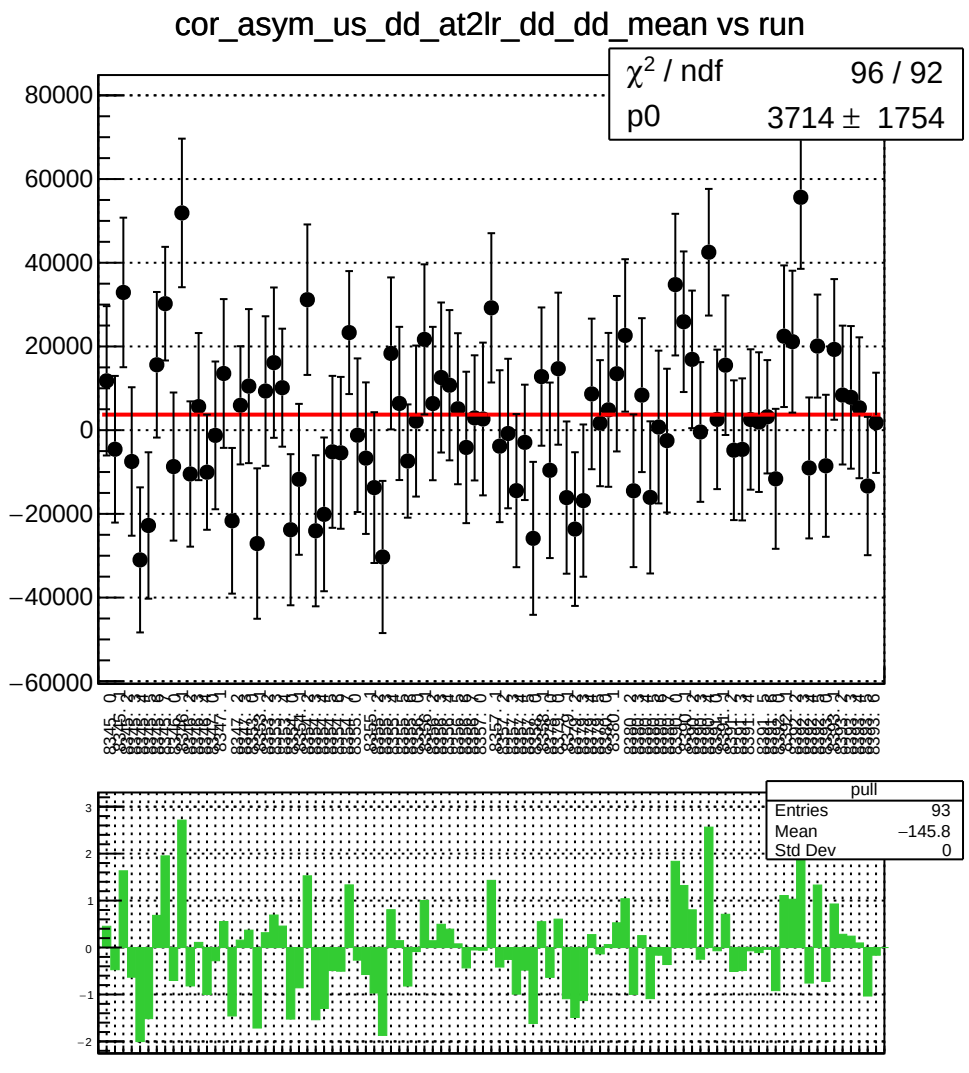

pull1D
Entries 93
Mean −0.02
Std Dev 1.016
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

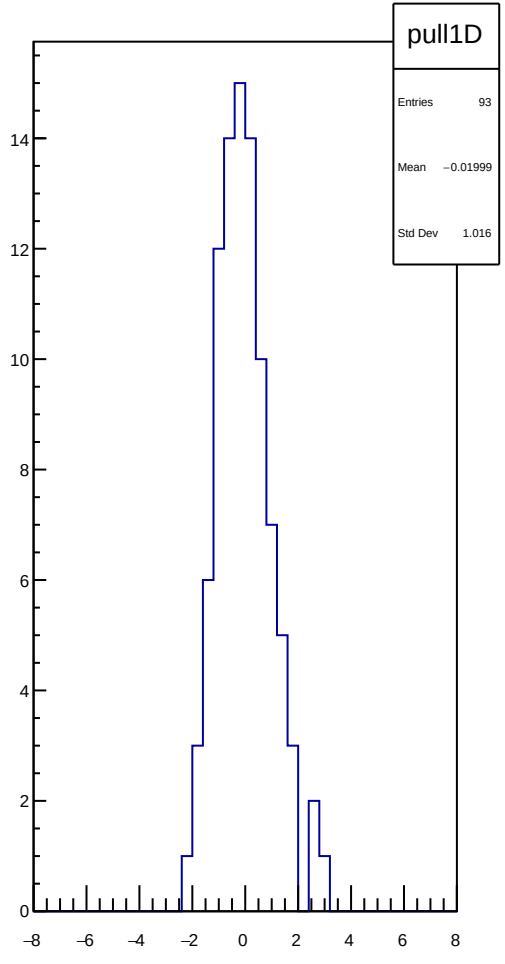

reg_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 2283 / 92
p0 1672 ± 1.24
1750
1700
1650
1600
1550

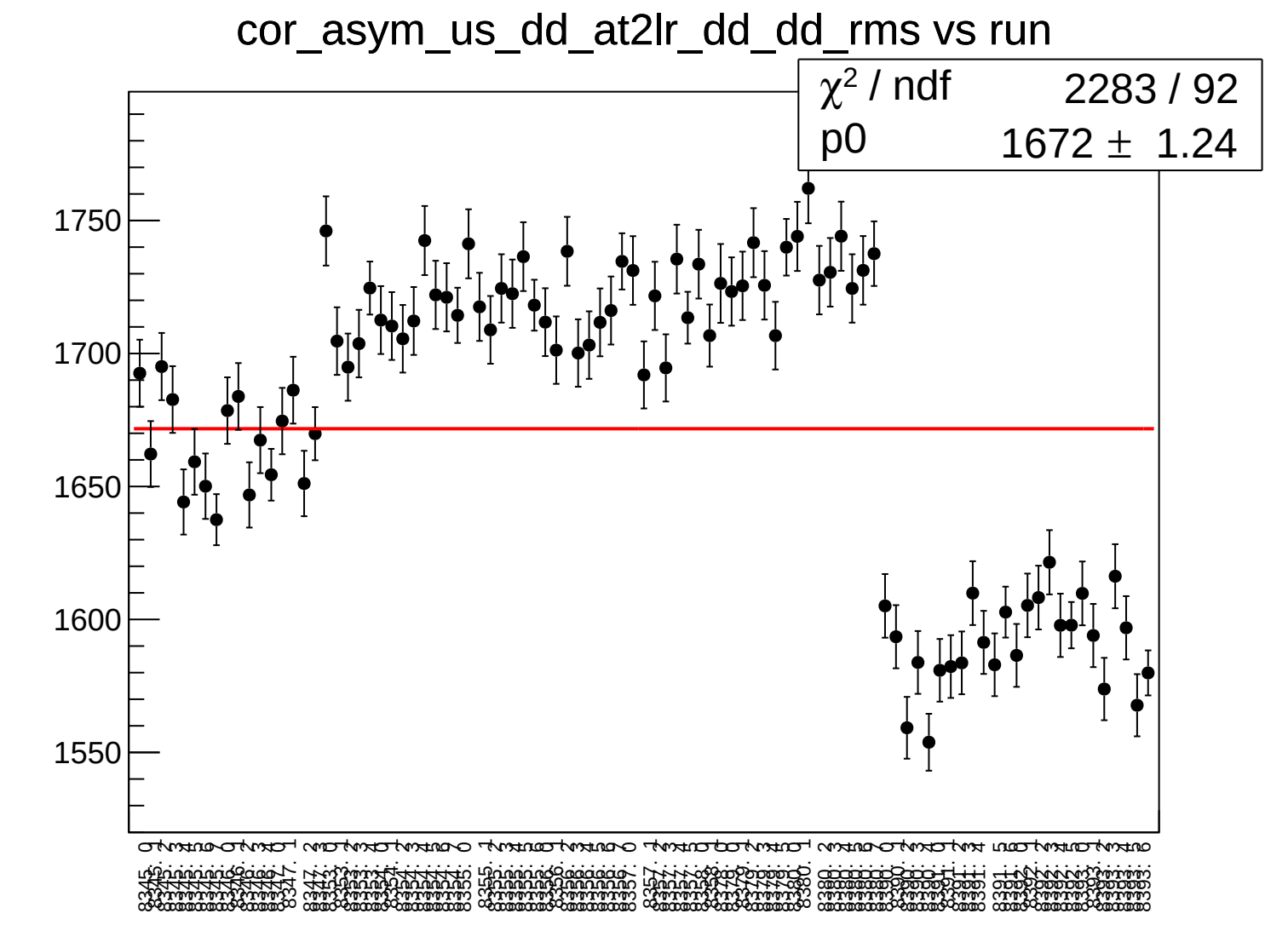

asym_us_dd_at2lr_dd_dd_reg_correction_mean vs run
χ² / ndf 104.9 / 92
p0 3811 ± 1421
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −133.2
Std Dev 0
3
2
1
0
−1
−2

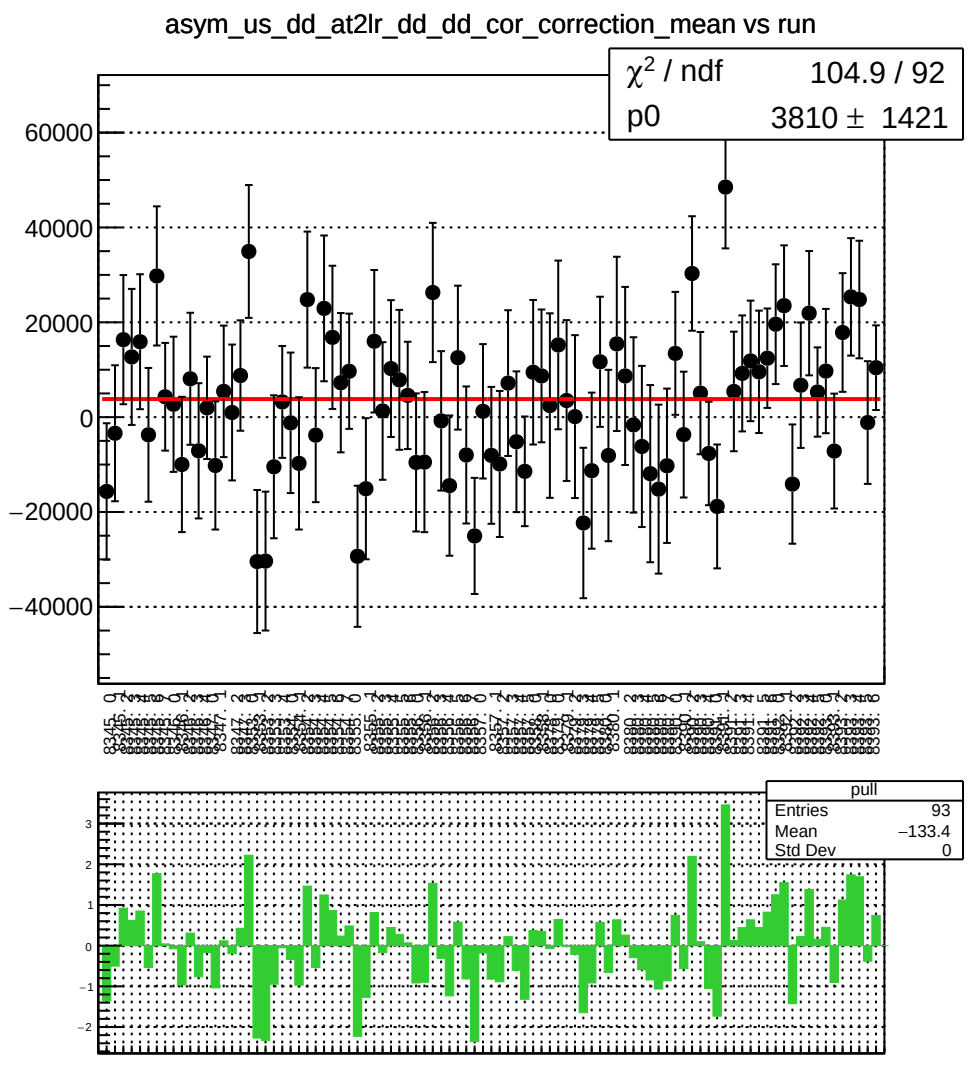

pull1D
Entries 93
Mean −0.02931
Std Dev 1.062
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

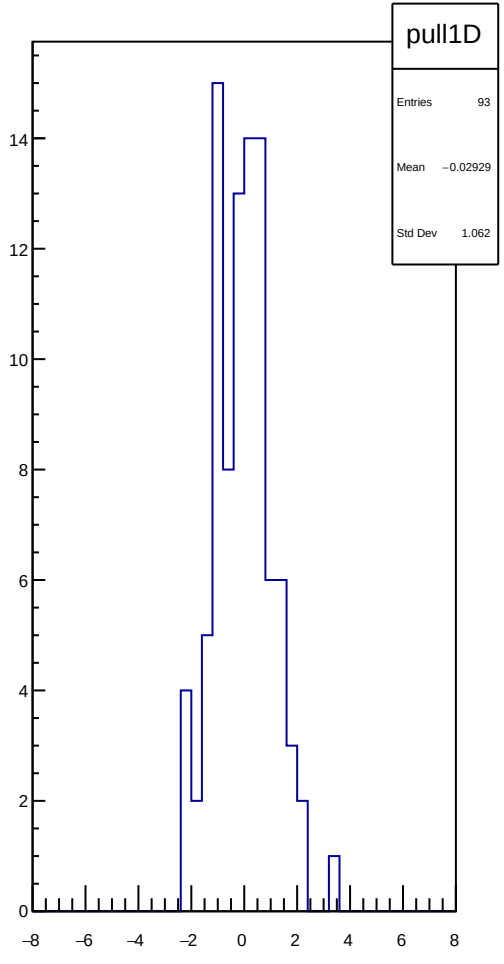

asym_us_dd_at2lr_dd_dd_reg_correction_rms vs run
χ² / ndf 1.944e+04 / 92
p0 1348 ± 1.005
1800
1700
1600
1500
1400
1300
1200
1100

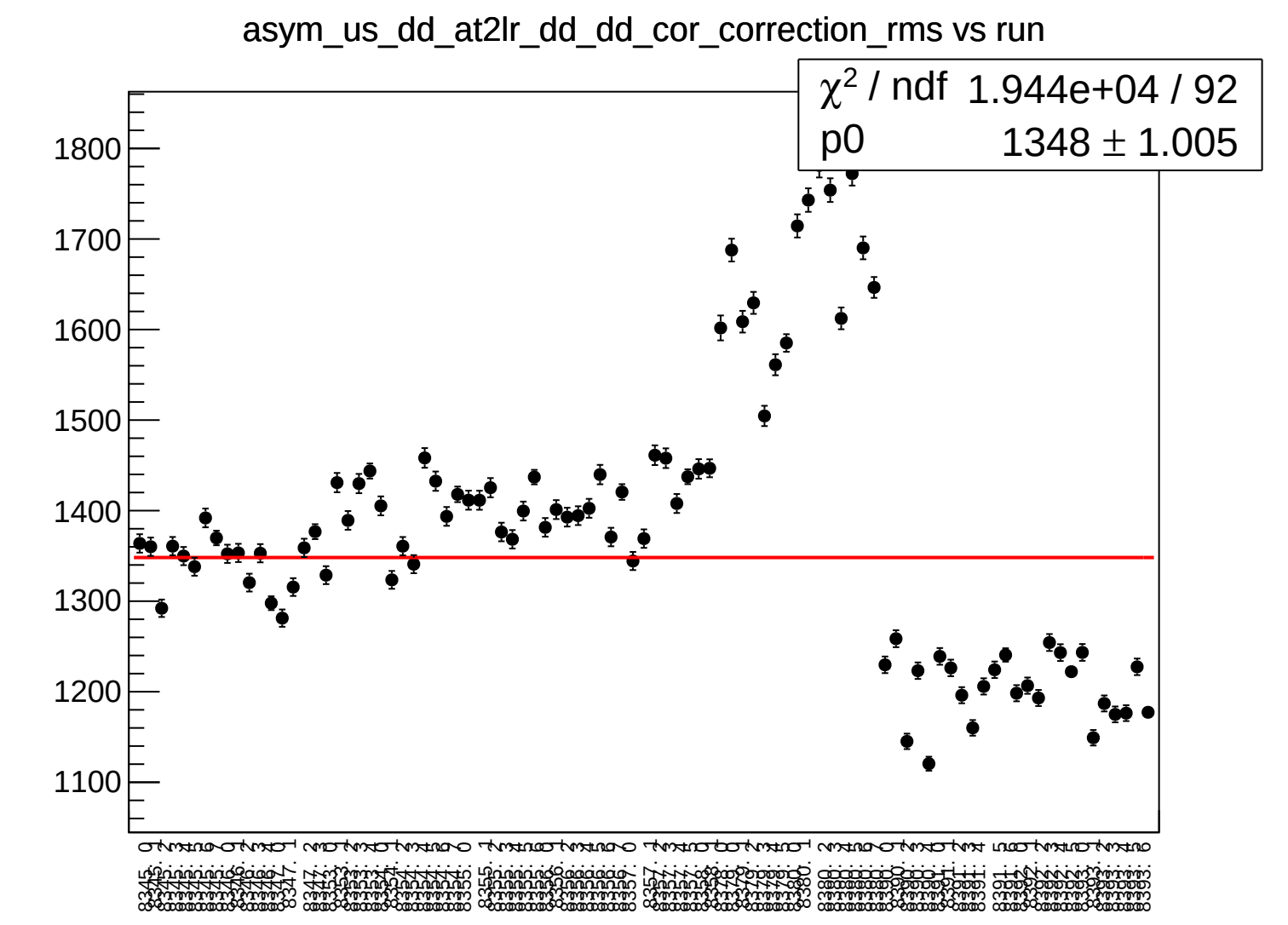

cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 96 / 92
p0 3714 ± 1754
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −145.8
Std Dev 0
3
2
1
0
−1
−2

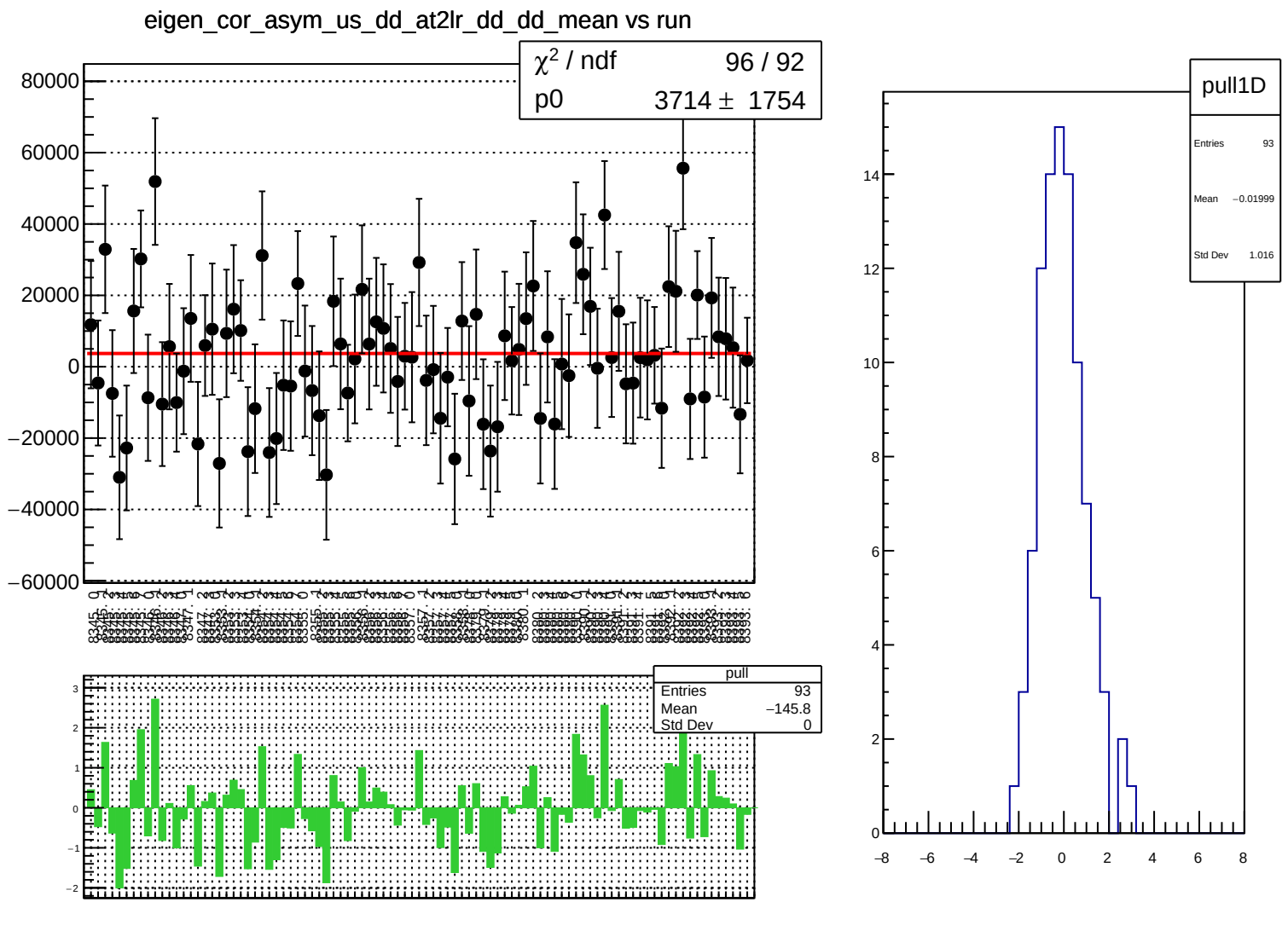

pull1D
Entries 93
Mean −0.01999
Std Dev 1.016
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

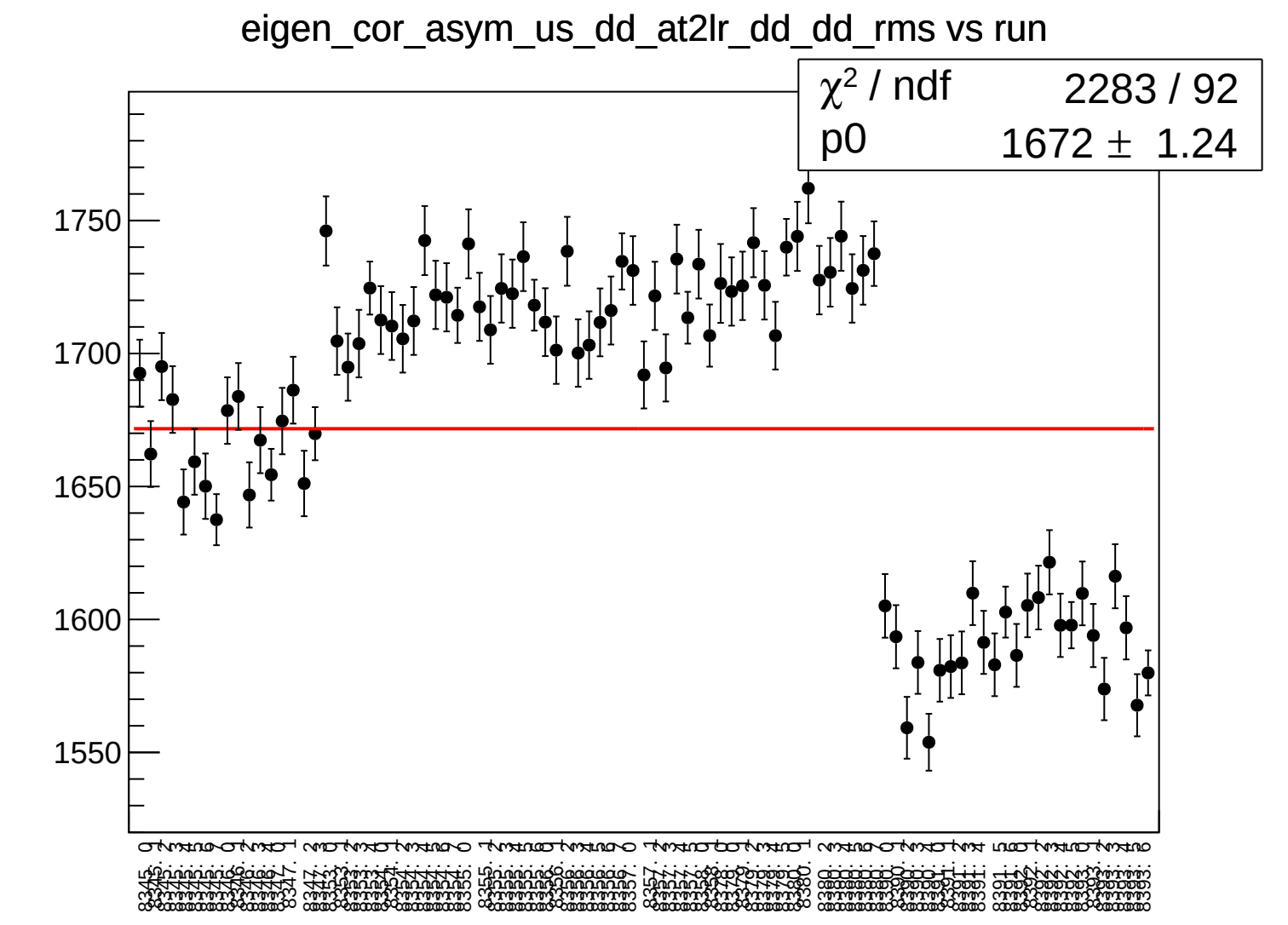

cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 2283 / 92
p0 1672 ± 1.24
1750
1700
1650
1600
1550

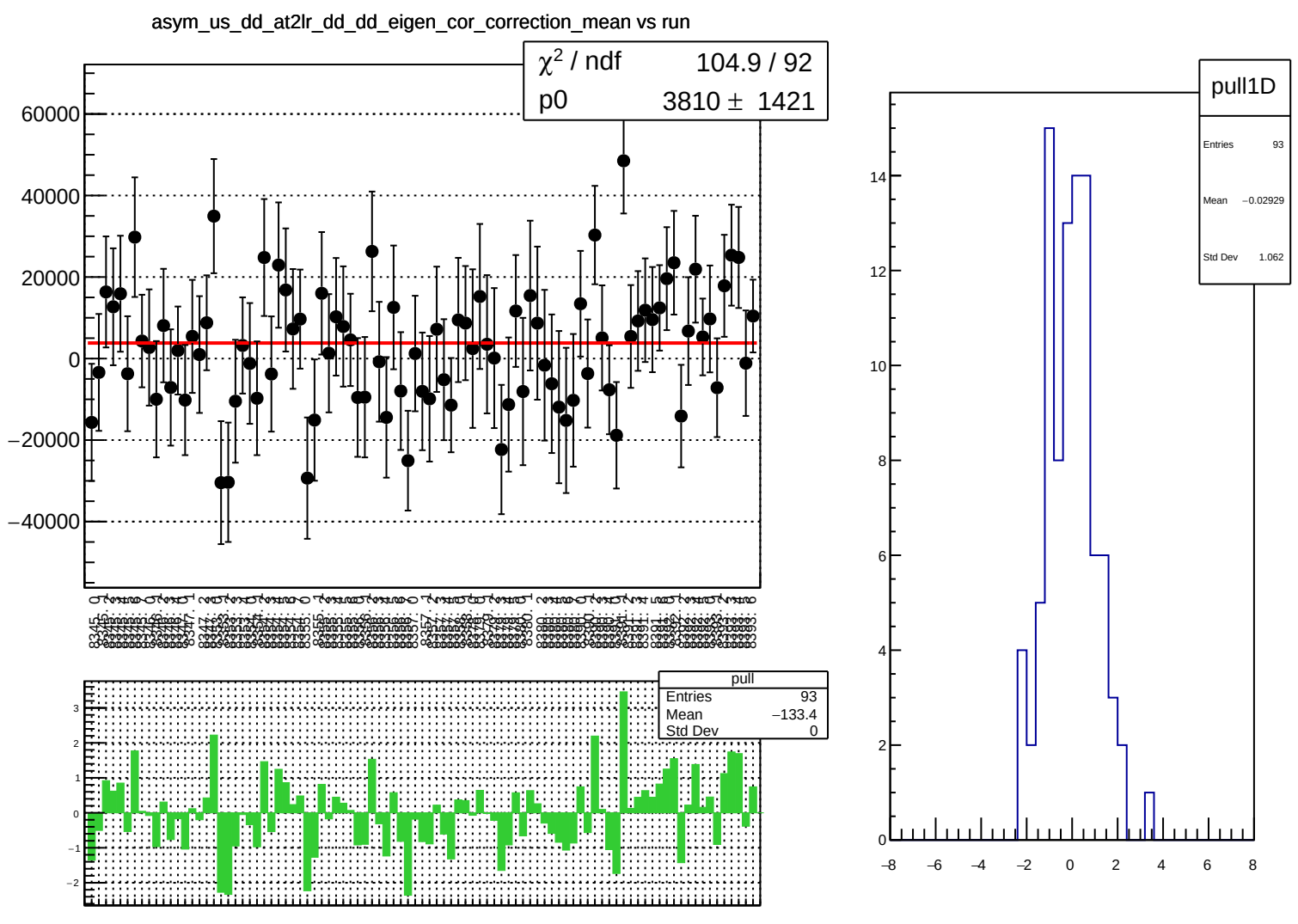

asym_us_dd_at2lr_dd_dd_cor_correction_mean vs run
χ² / ndf 104.9 / 92
p0 3810 ± 1421
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −133.4
Std Dev 0
3
2
1
0
−1
−2

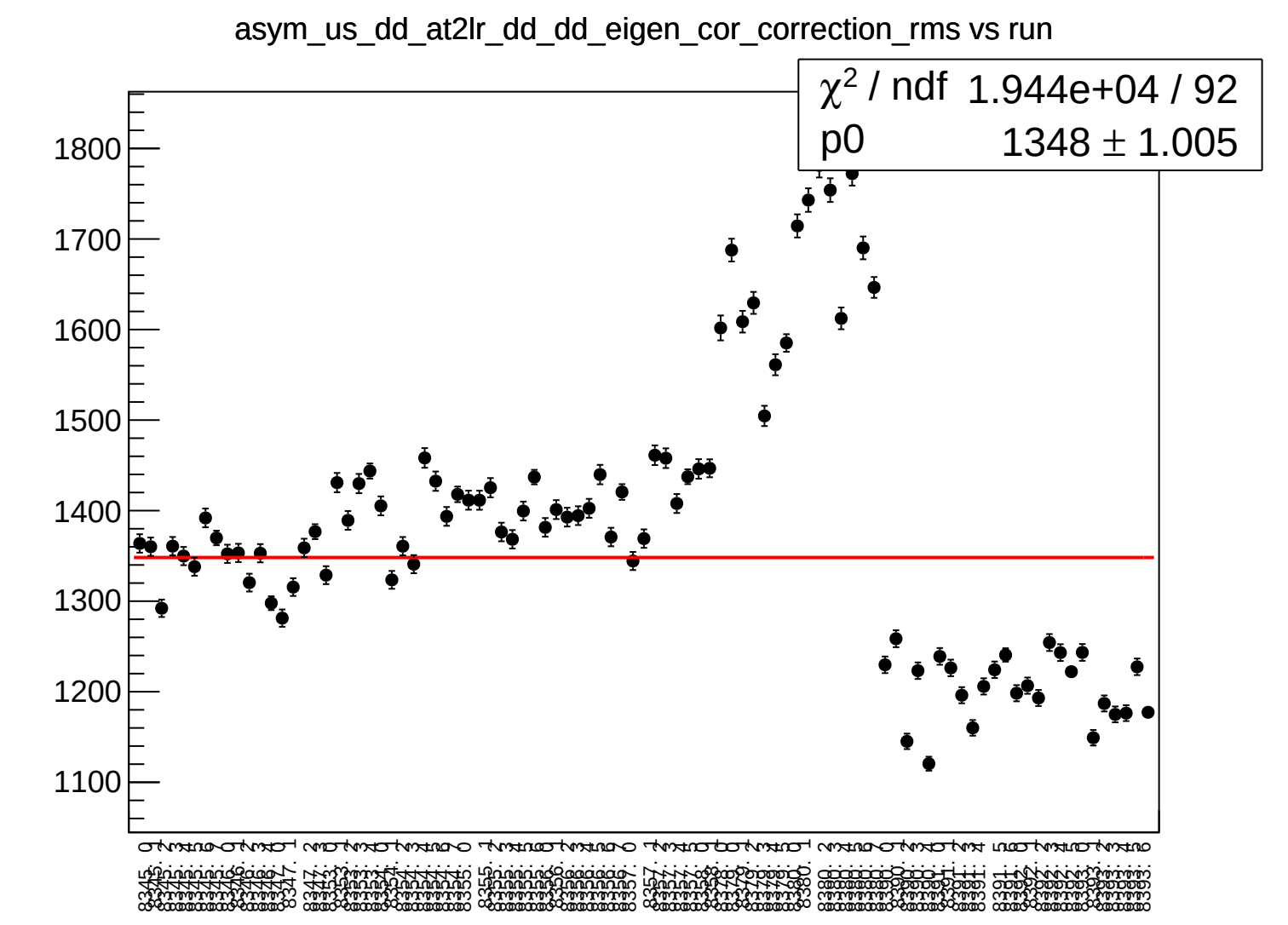

pull1D
Entries 93
Mean −0.02929
Std Dev 1.062
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

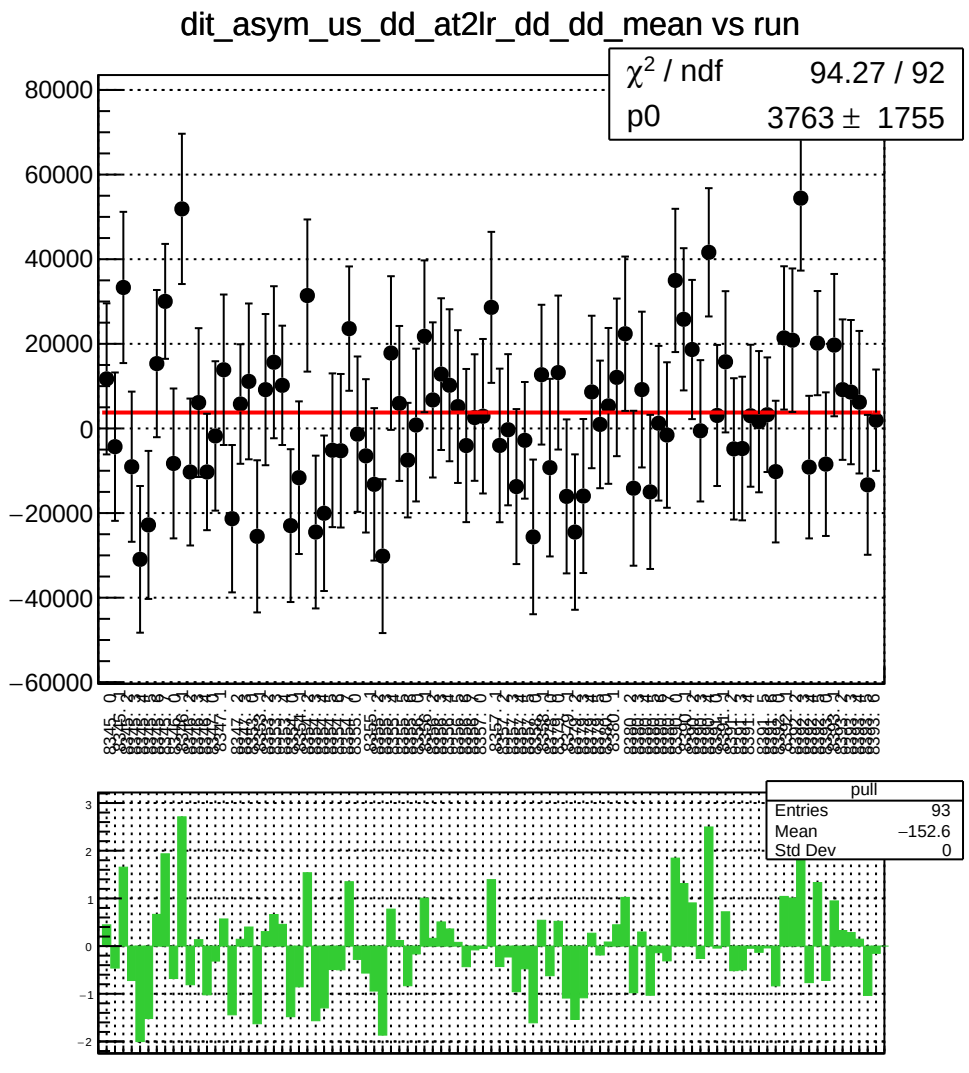

asym_us_dd_at2lr_dd_dd_cor_correction_rms vs run
χ² / ndf 1.944e+04 / 92
p0 1348 ± 1.005
1800
1700
1600
1500
1400
1300
1200
1100

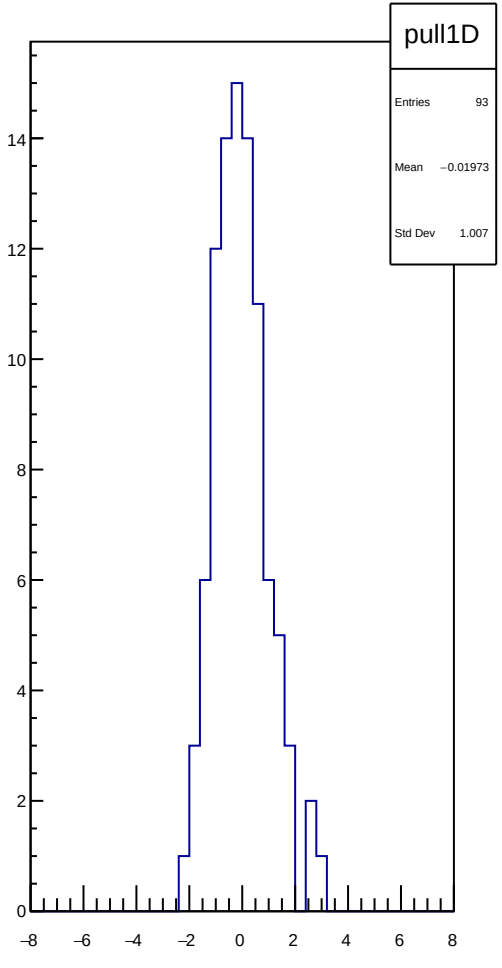

eigen_cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 96 / 92
p0 3714 ± 1754
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −145.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.01999
Std Dev 1.016
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

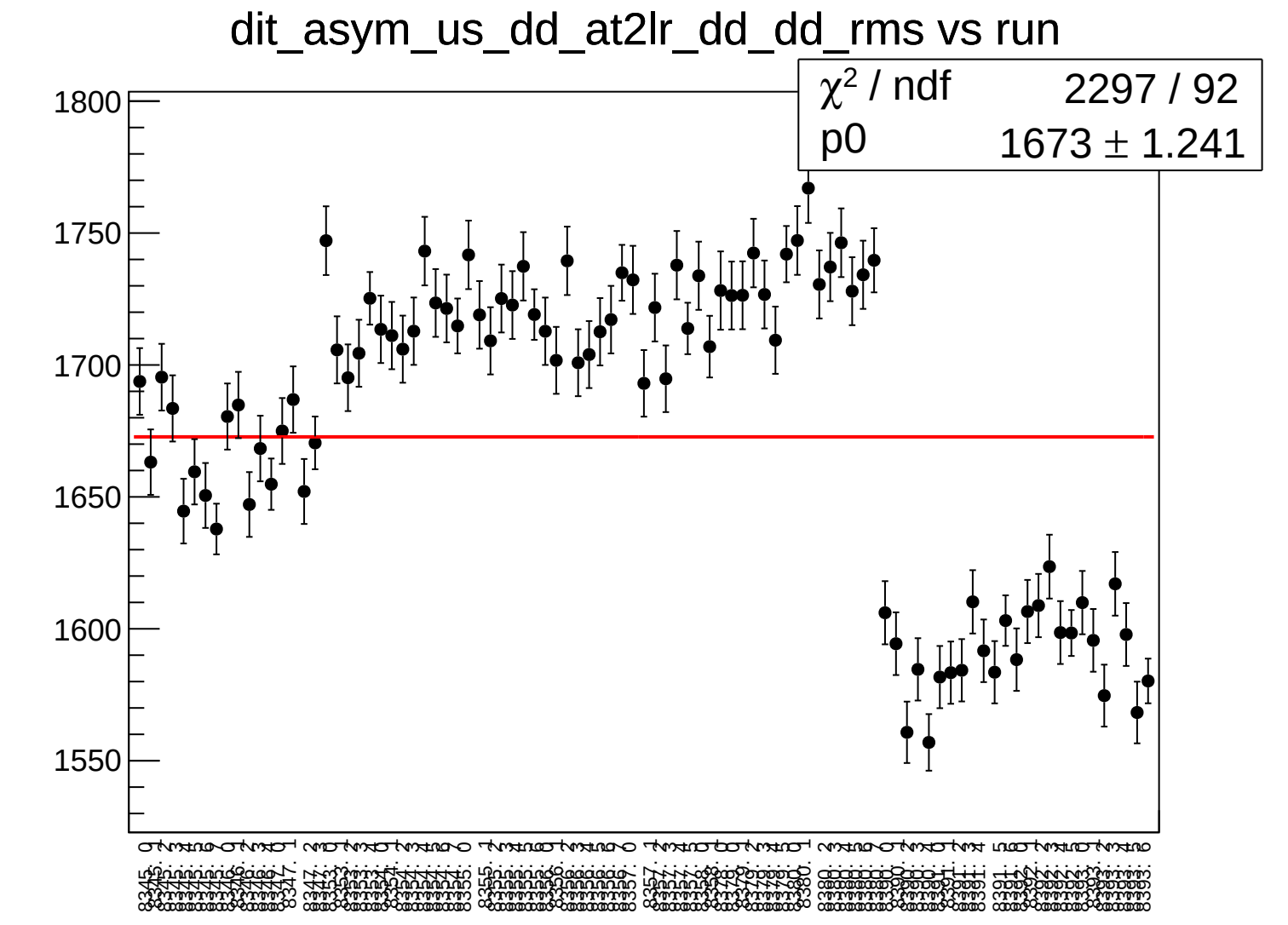

eigen_cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 2283 / 92
p0 1672 ± 1.24
1750
1700
1650
1600
1550

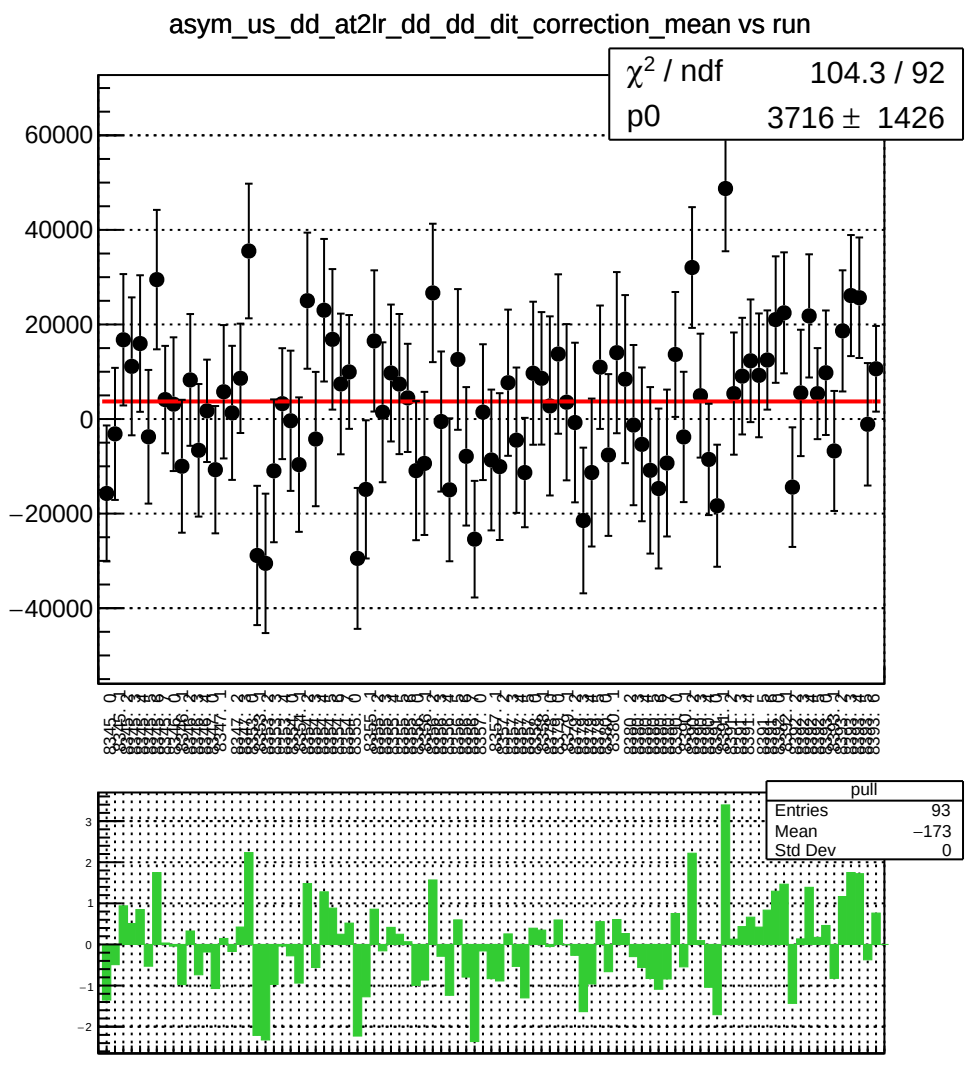

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 104.9 / 92
p0 3810 ± 1421
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −133.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.02929
Std Dev 1.062
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

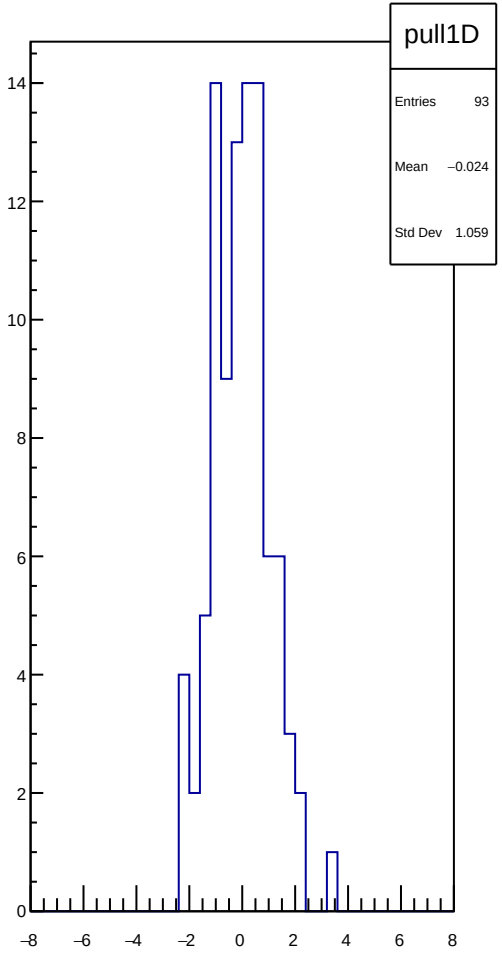

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.944e+04 / 92
p0 1348 ± 1.005
1800
1700
1600
1500
1400
1300
1200
1100

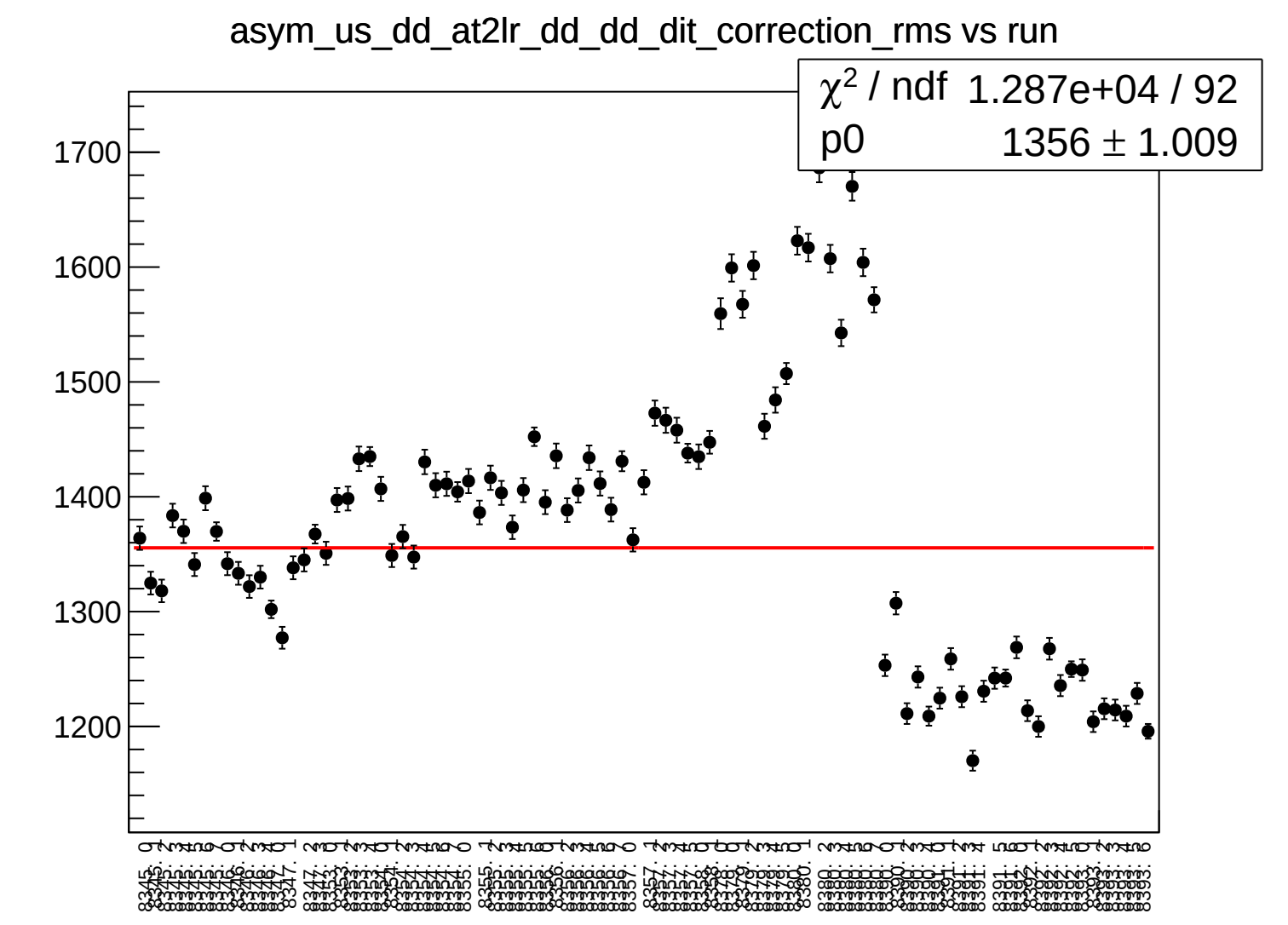

dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 94.27 / 92
p0 3763 ± 1755
pull
Entries 93
Mean −152.6
Std Dev 0

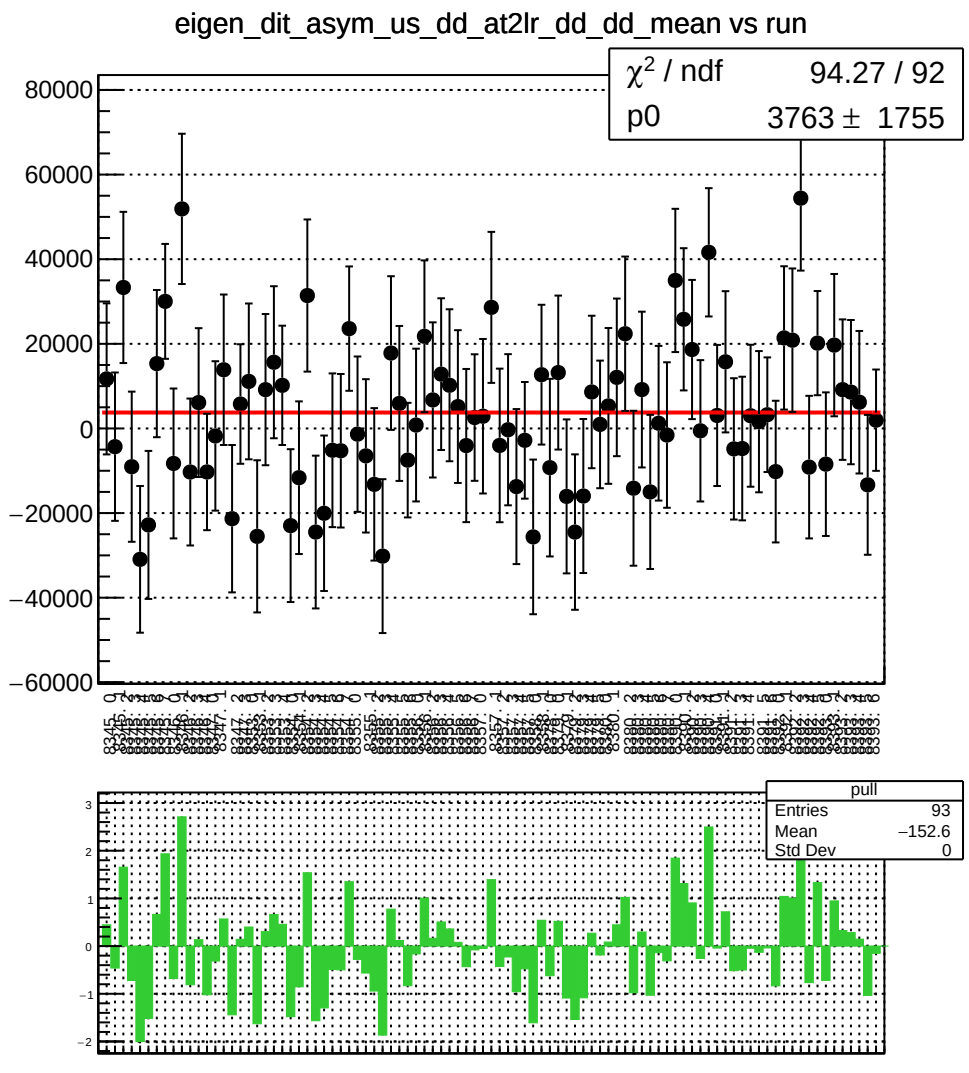

pull1D
Entries 93
Mean −0.01973
Std Dev 1.007

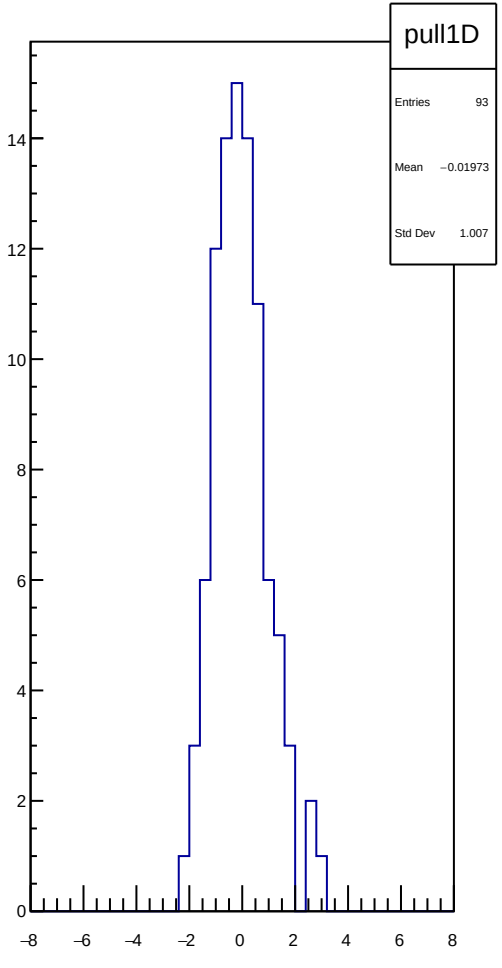

dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 2297 / 92
p0 1673 ± 1.241
1800
1750
1700
1650
1600
1550

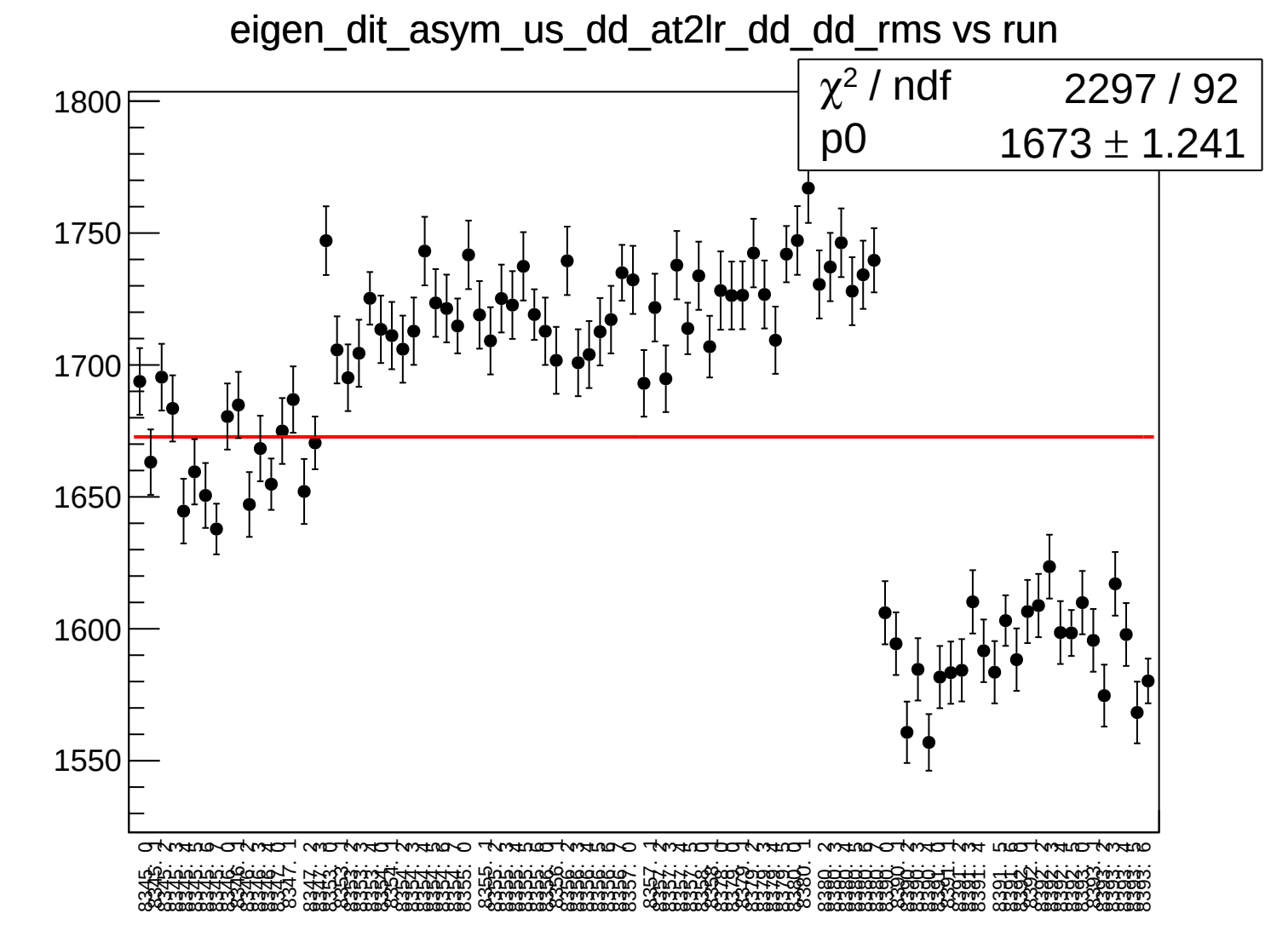

asym_us_dd_at2lr_dd_dd_dit_correction_mean vs run
χ² / ndf 104.3 / 92
p0 3716 ± 1426
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −173
Std Dev 0
3
2
1
0
−1
−2

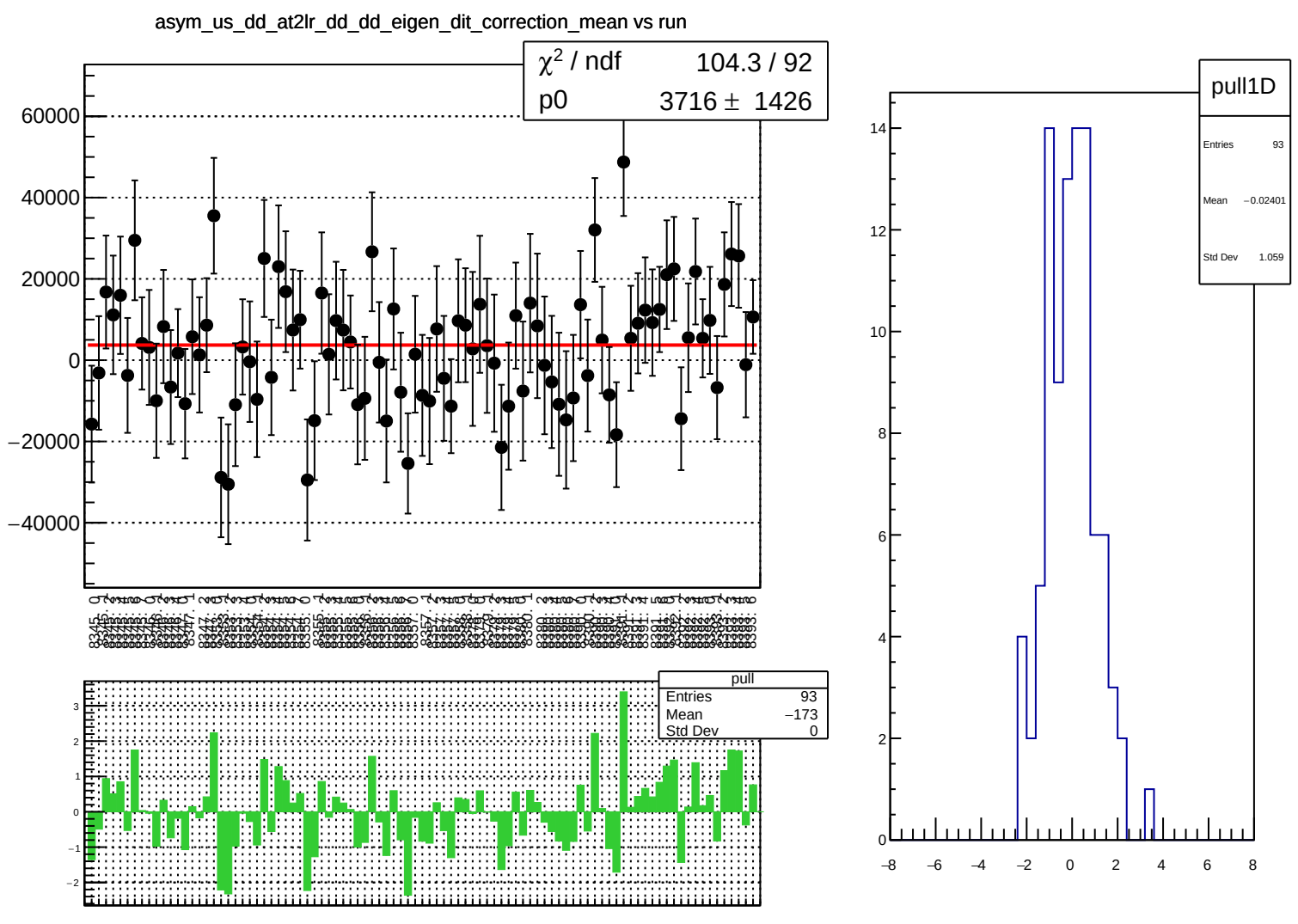

pull1D
Entries 93
Mean −0.024
Std Dev 1.059
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

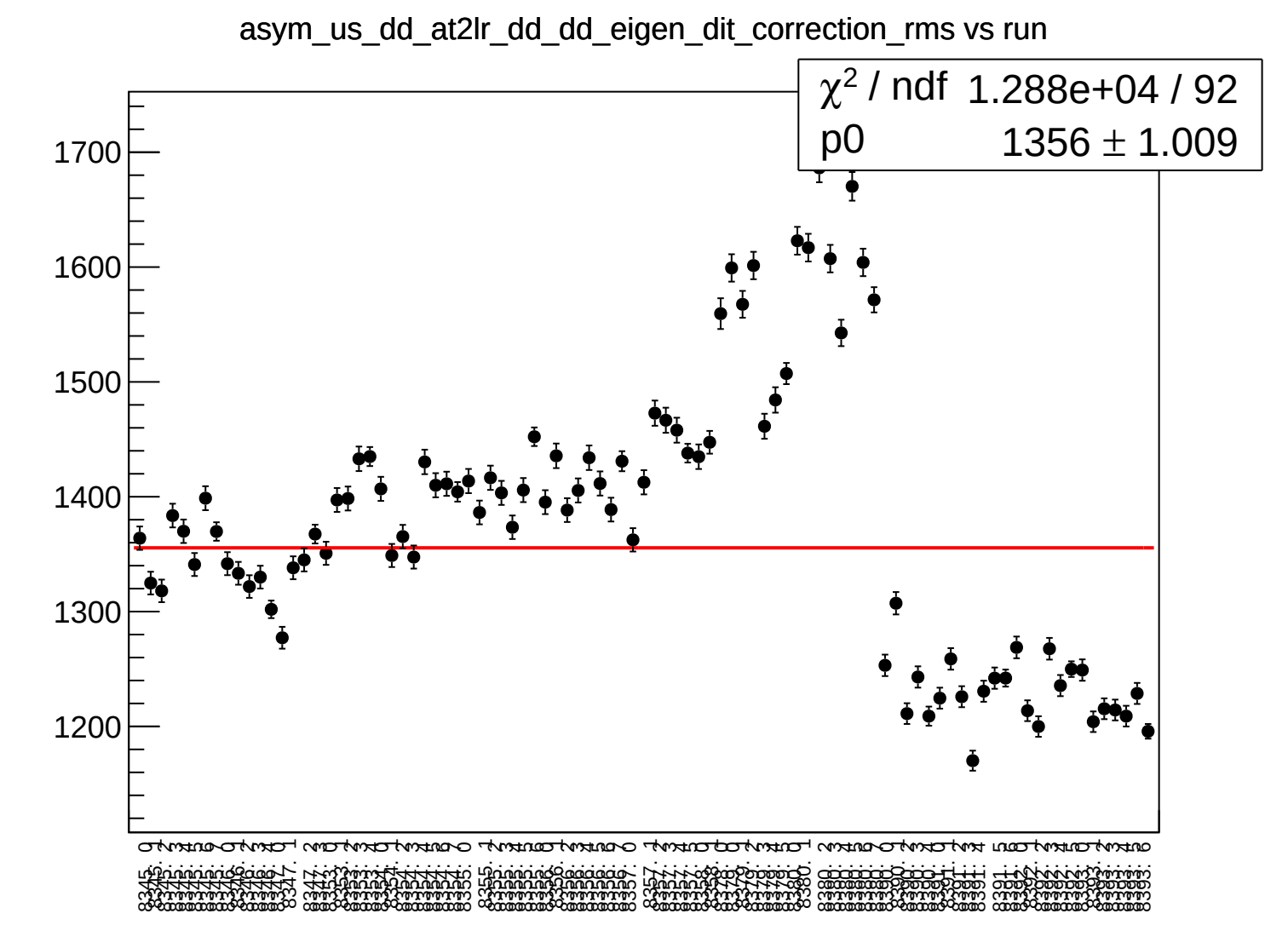

asym_us_dd_at2lr_dd_dd_dit_correction_rms vs run
χ² / ndf 1.287e+04 / 92
p0 1356 ± 1.009
1700
1600
1500
1400
1300
1200

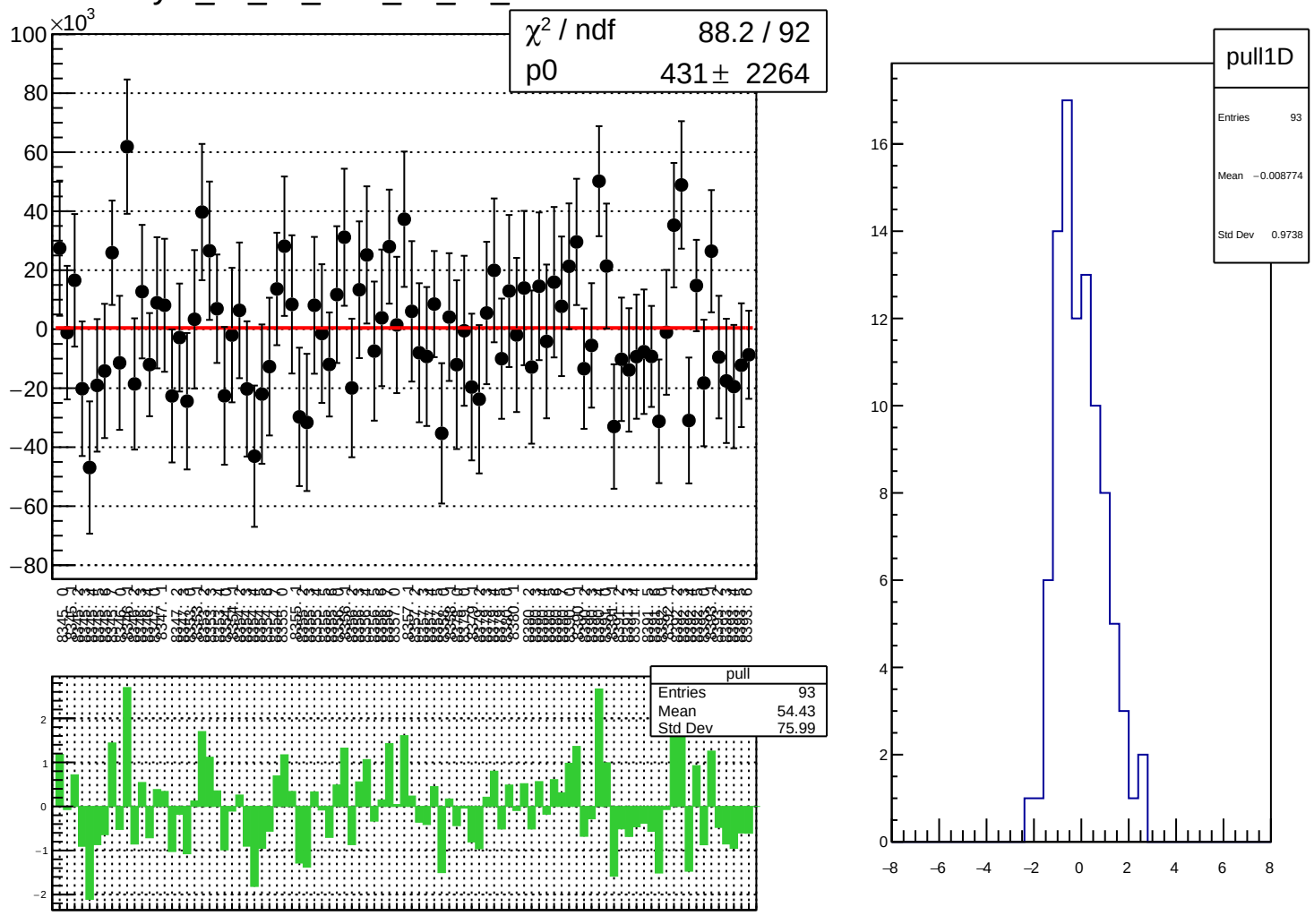

eigen_dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 94.27 / 92
p0 3763 ± 1755
pull
Entries 93
Mean −152.6
Std Dev 0

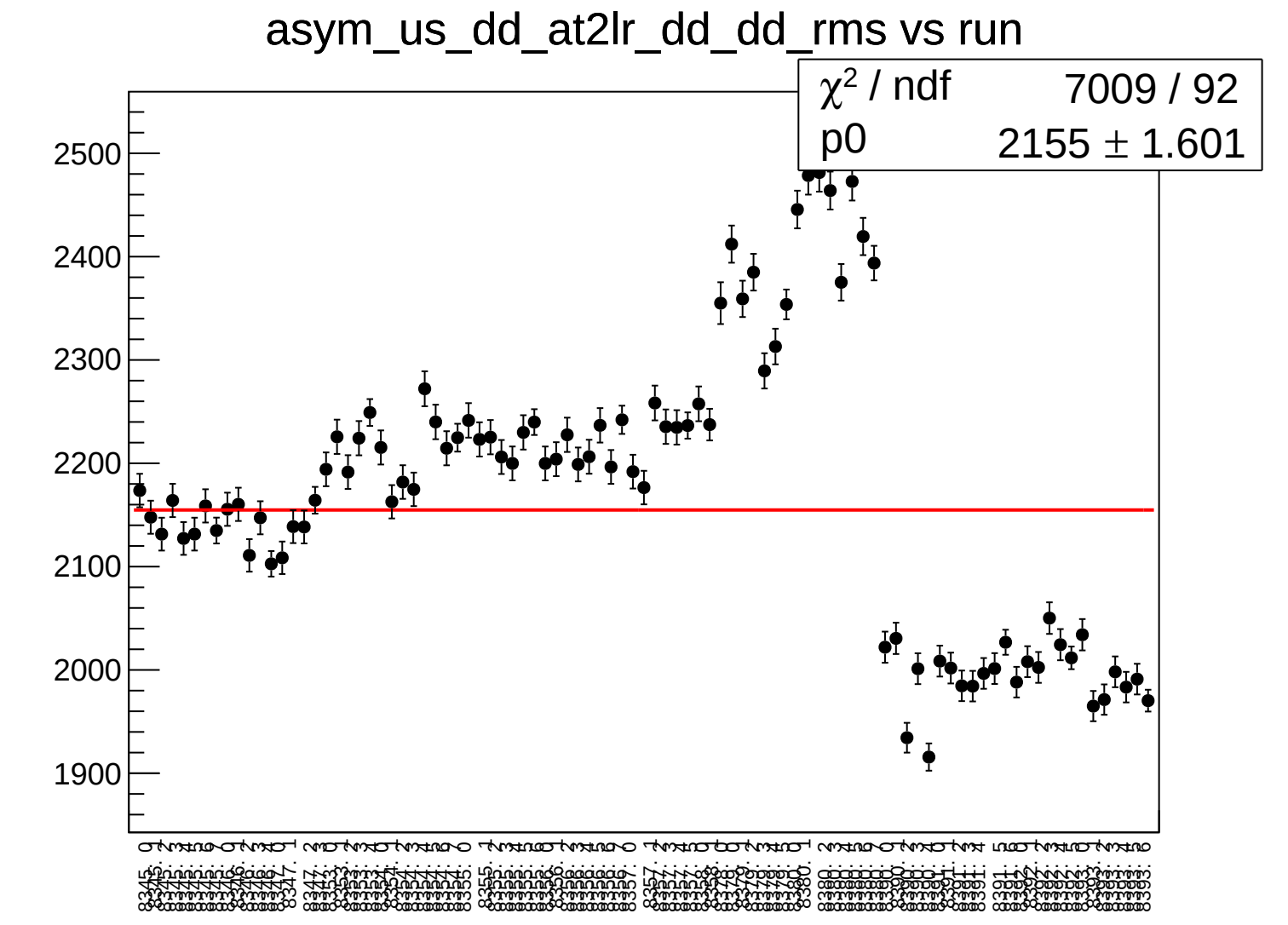

pull1D
Entries 93
Mean −0.01973
Std Dev 1.007

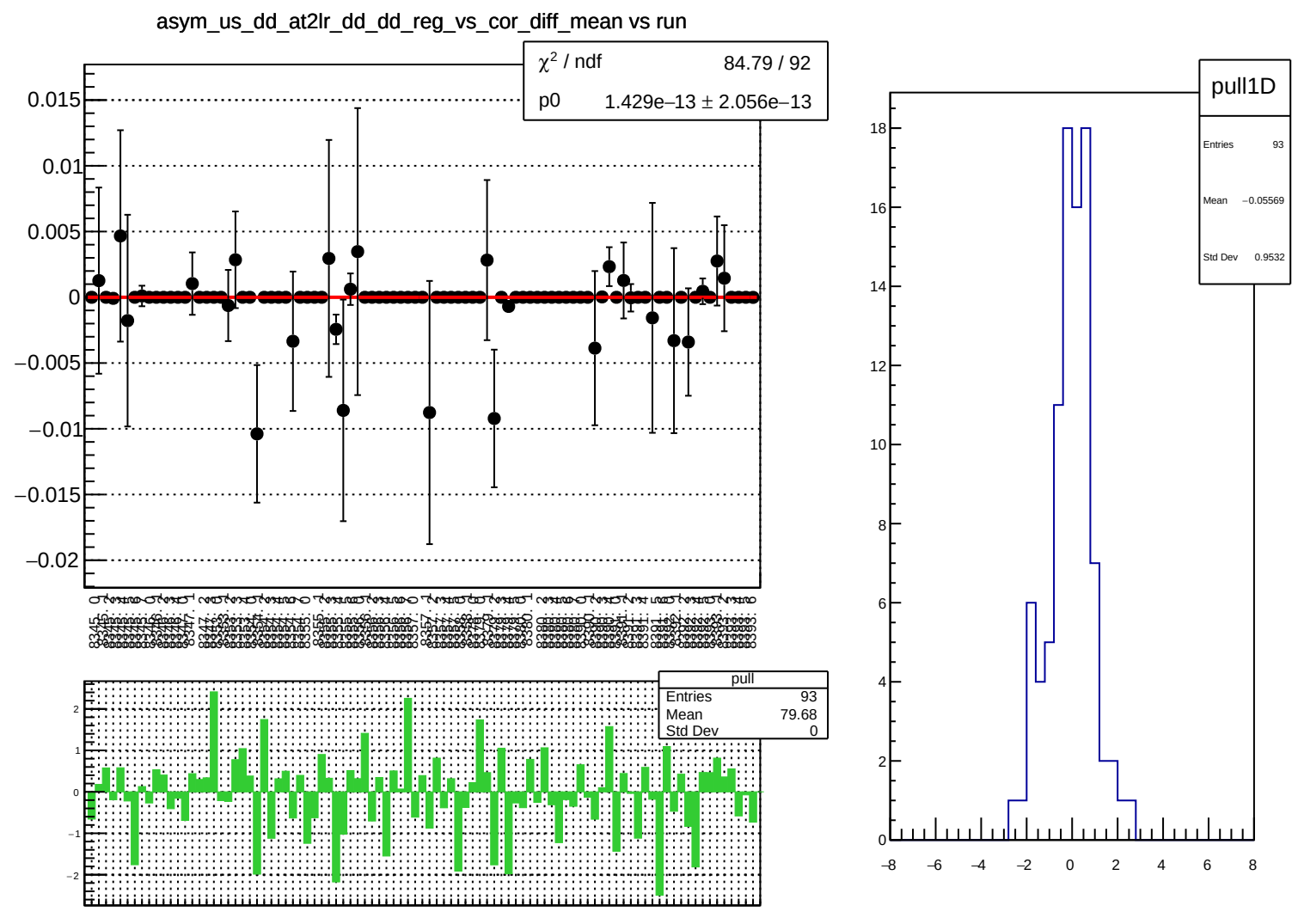

eigen_dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 2297 / 92
p0 1673 ± 1.241
1800
1750
1700
1650
1600
1550

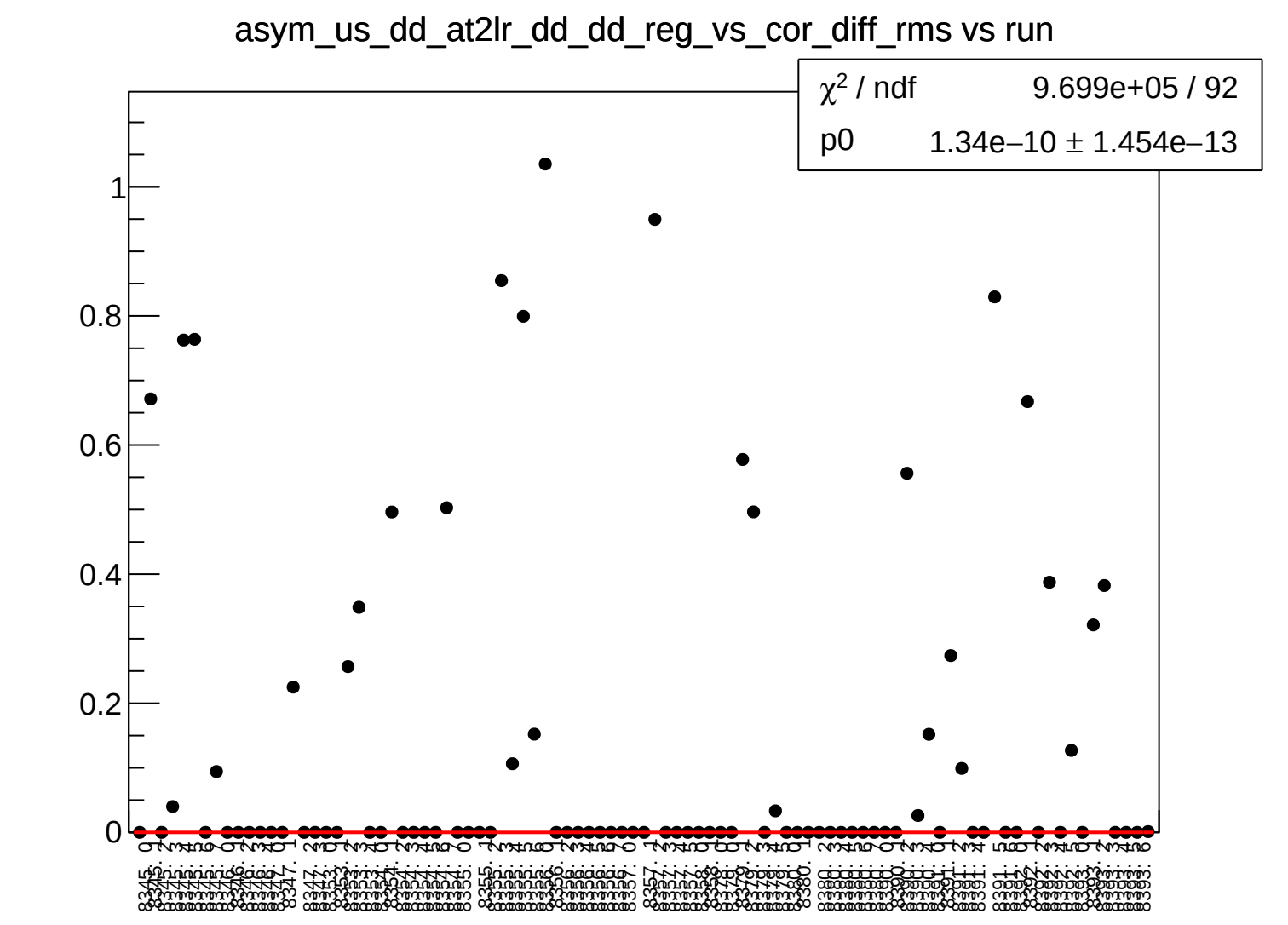

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 104.3 / 92
p0 3716 ± 1426
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −173
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.02401
Std Dev 1.059
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

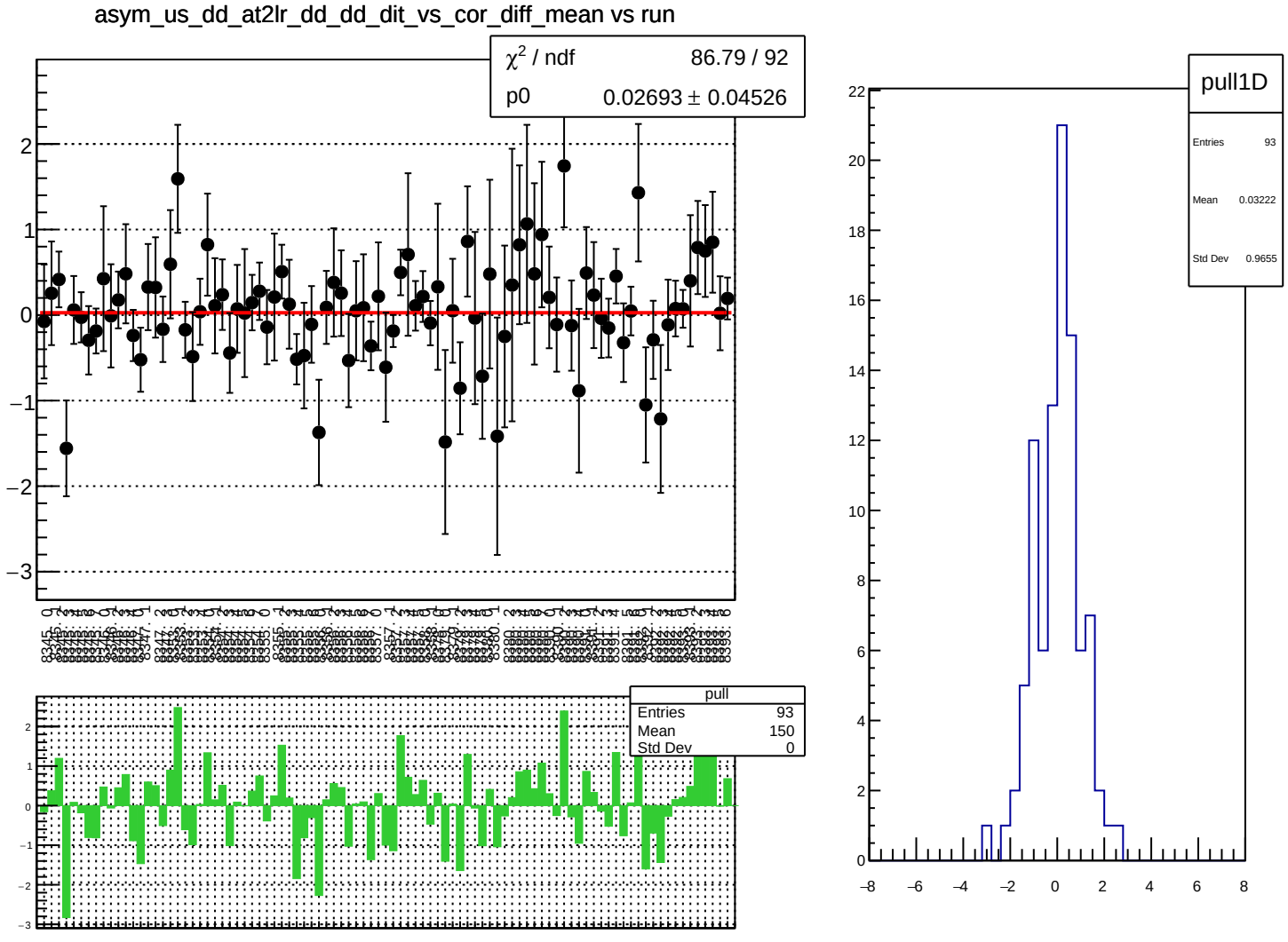

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.288e+04 / 92
p0 1356 ± 1.009
1700
1600
1500
1400
1300
1200

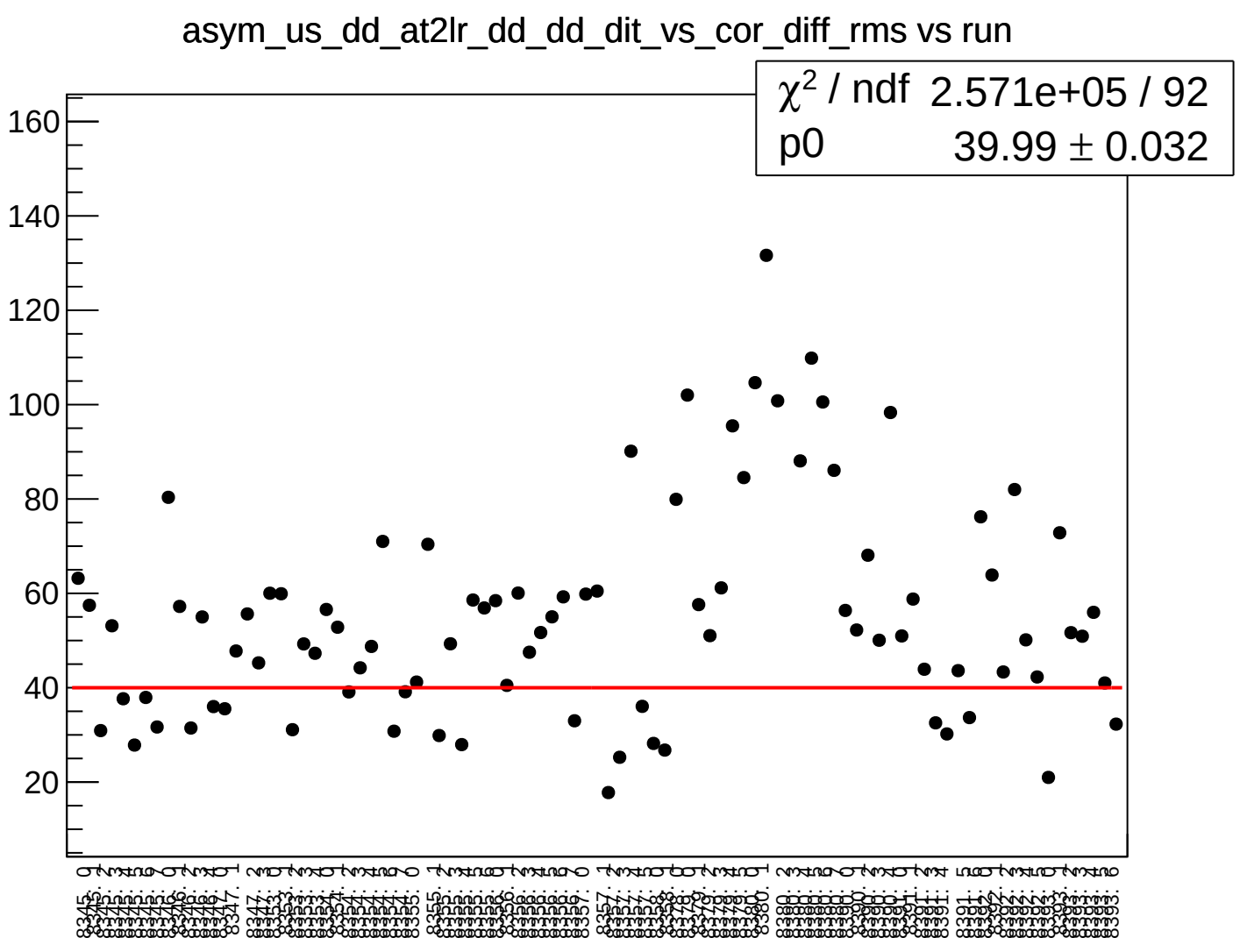

asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 88.2 / 92
p0 431 ± 2264
×10³
pull
Entries 93
Mean 54.43
Std Dev 75.99
pull1D
Entries 93
Mean −0.008774
Std Dev 0.9738

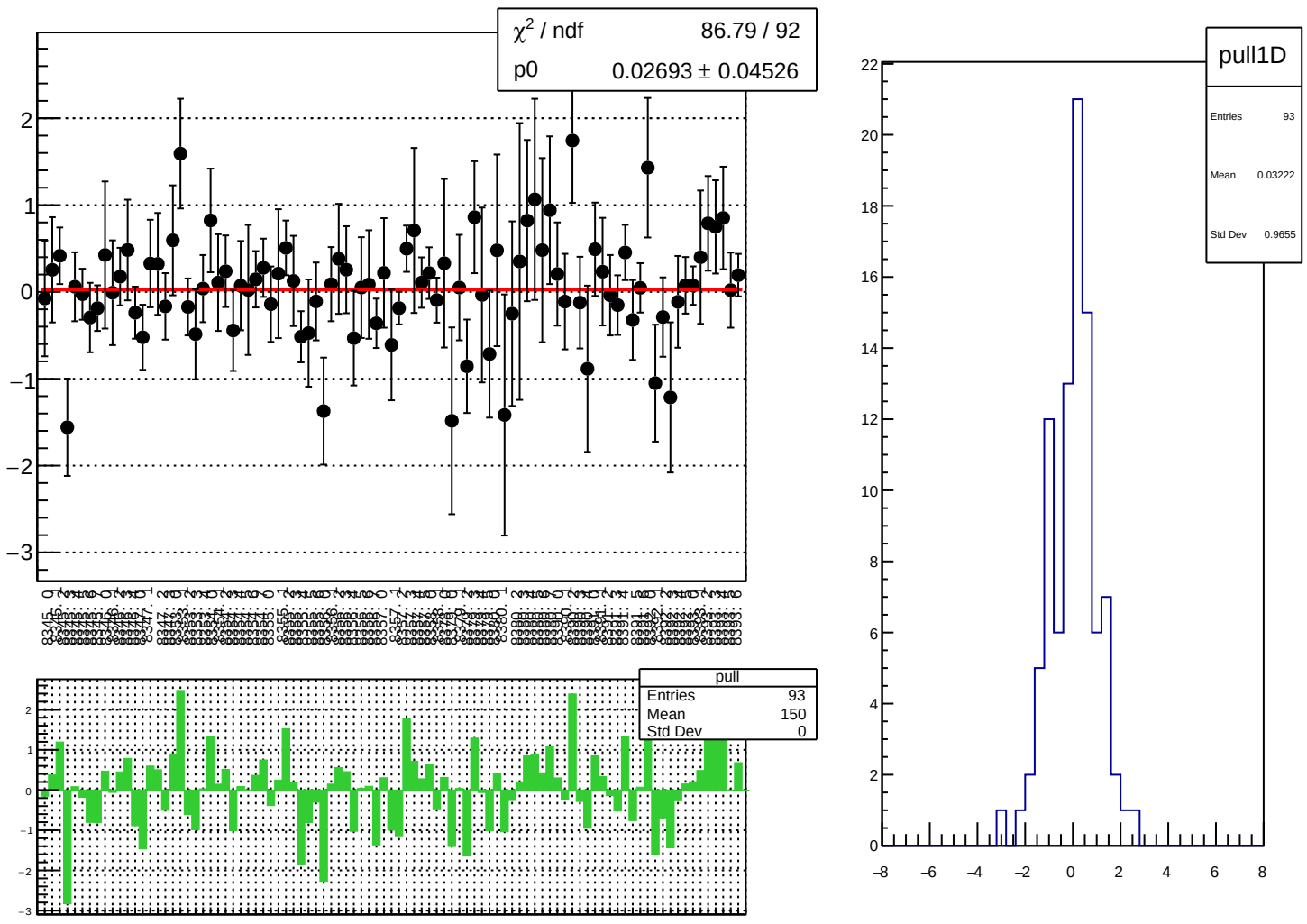

asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 7009 / 92
p0 2155 ± 1.601
2500
2400
2300
2200
2100
2000
1900

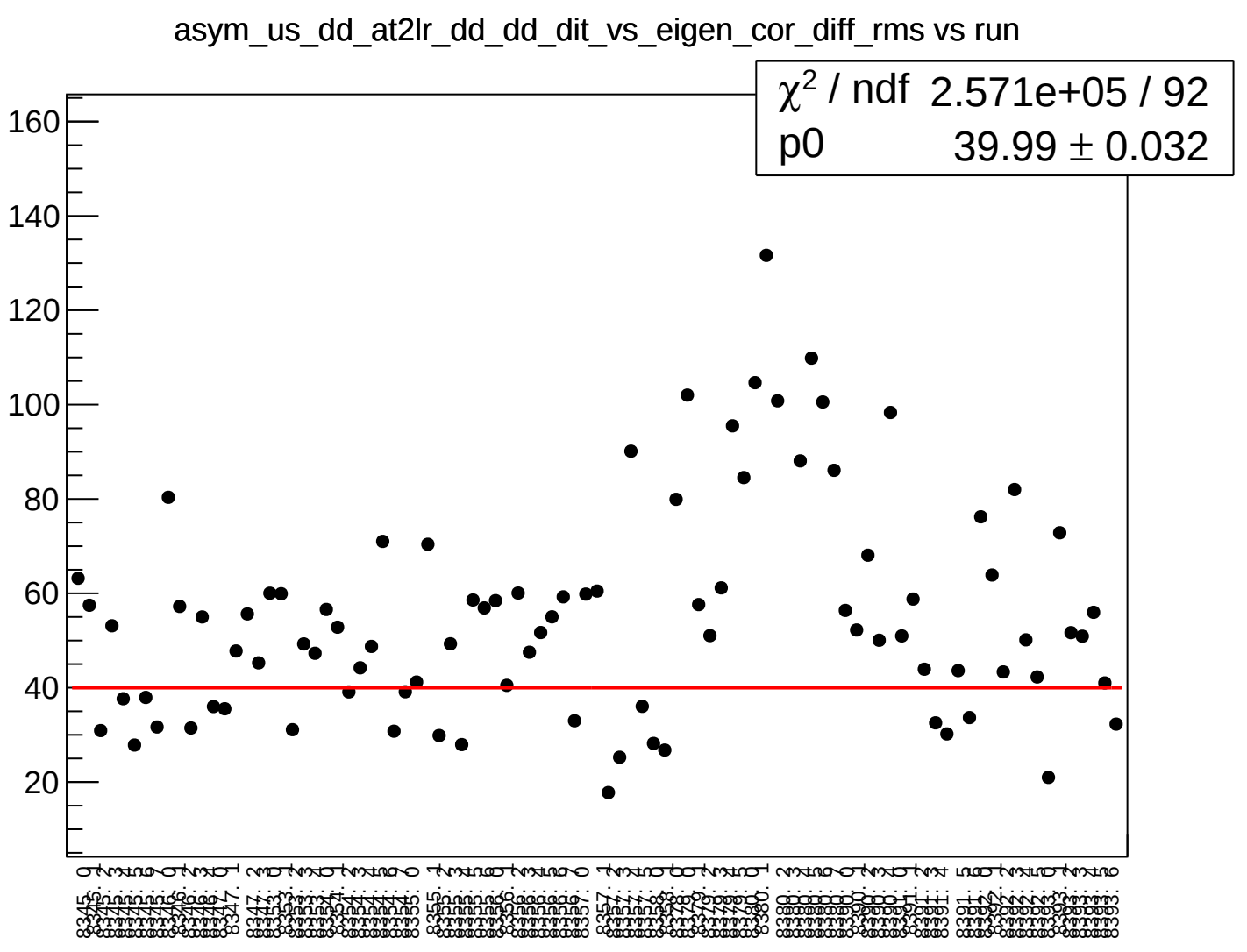

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 84.79 / 92
p0 1.429e−13 ± 2.056e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 93
Mean 79.68
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.05569
Std Dev 0.9532
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

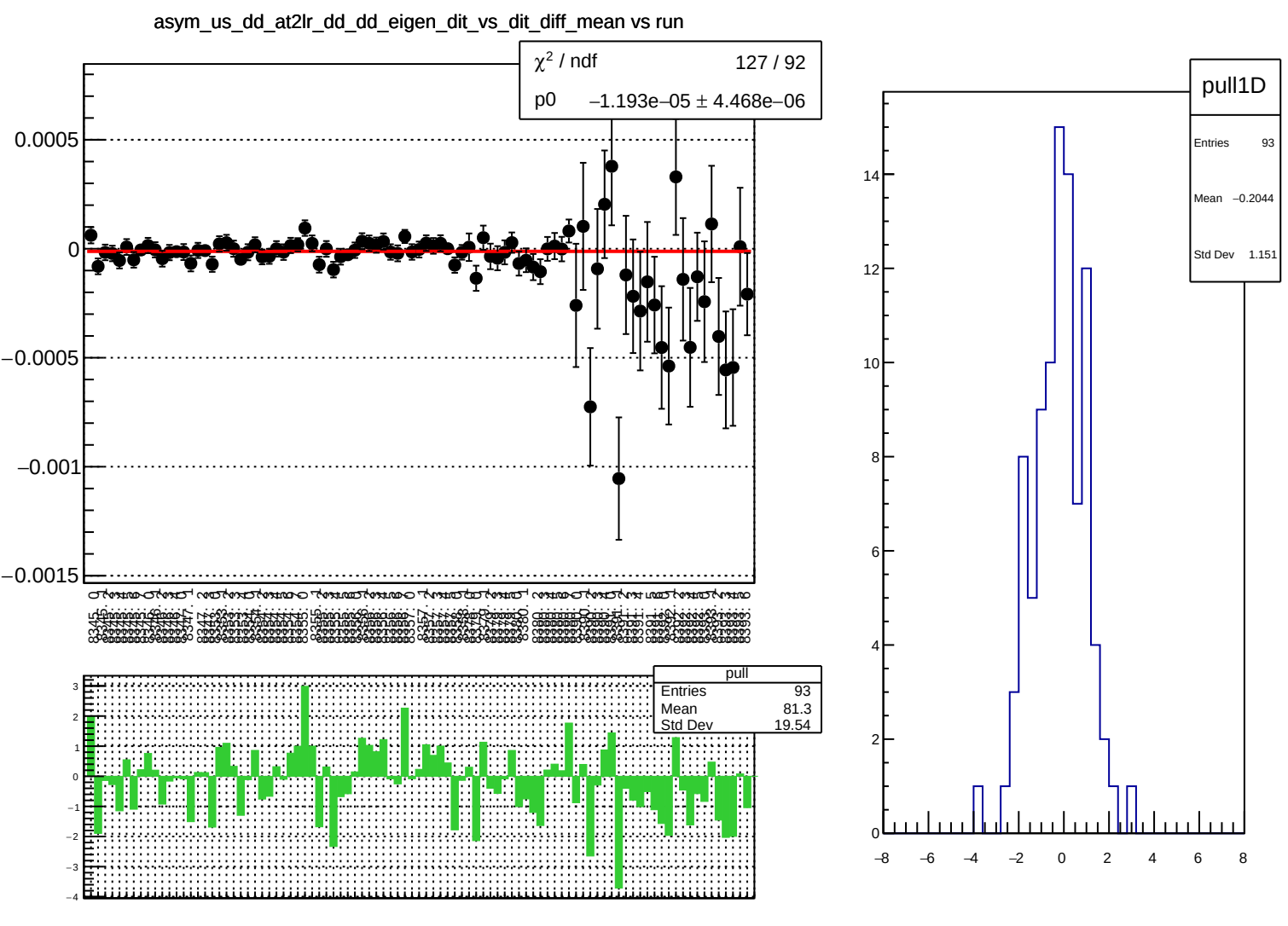

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.699e+05 / 92
p0 1.34e−10 ± 1.454e−13
1
0.8
0.6
0.4
0.2
0

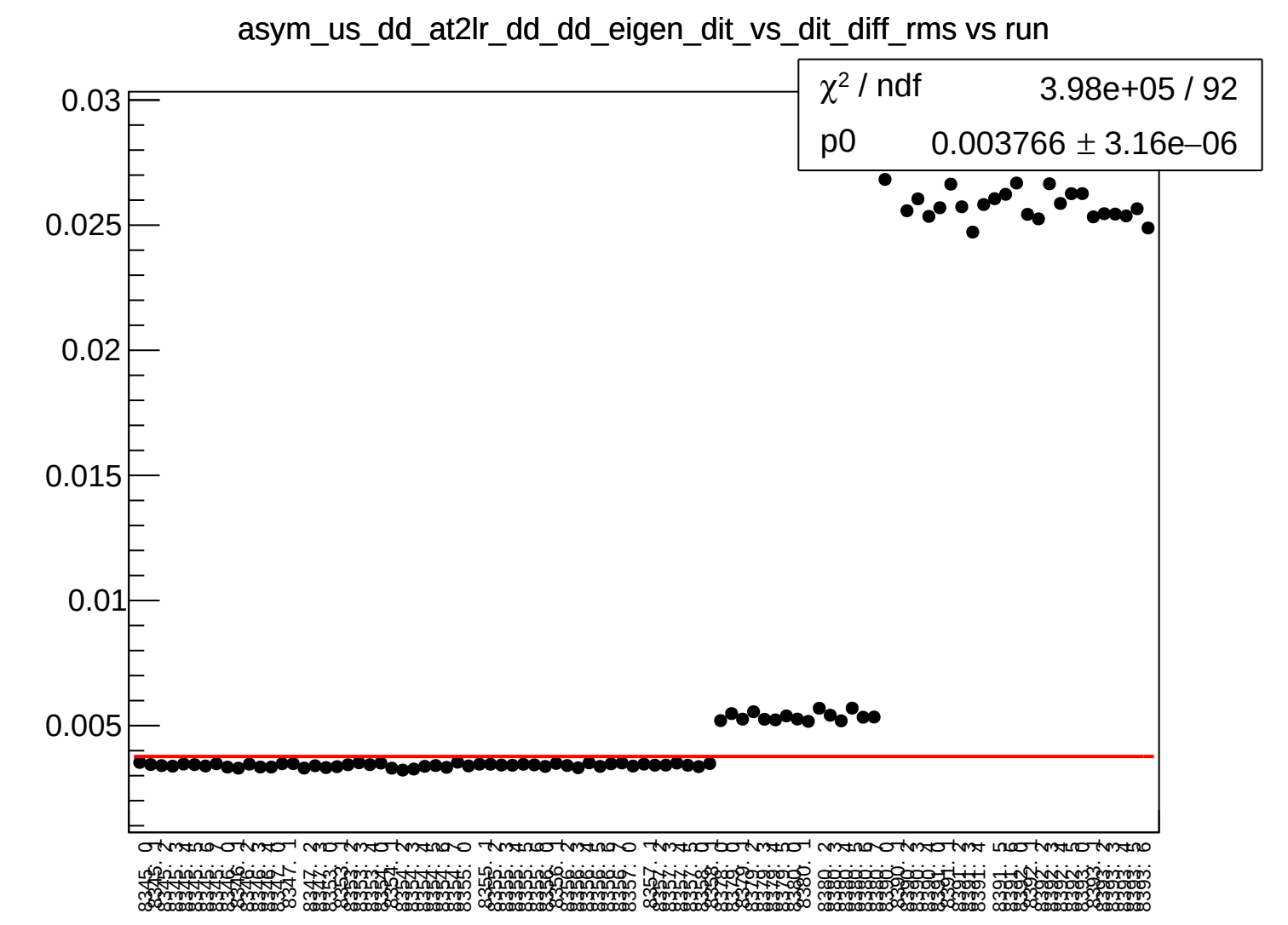

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 86.79 / 92
p0 0.02693 ± 0.04526
pull
Entries 93
Mean 150
Std Dev 0
pull1D
Entries 93
Mean 0.03222
Std Dev 0.9655

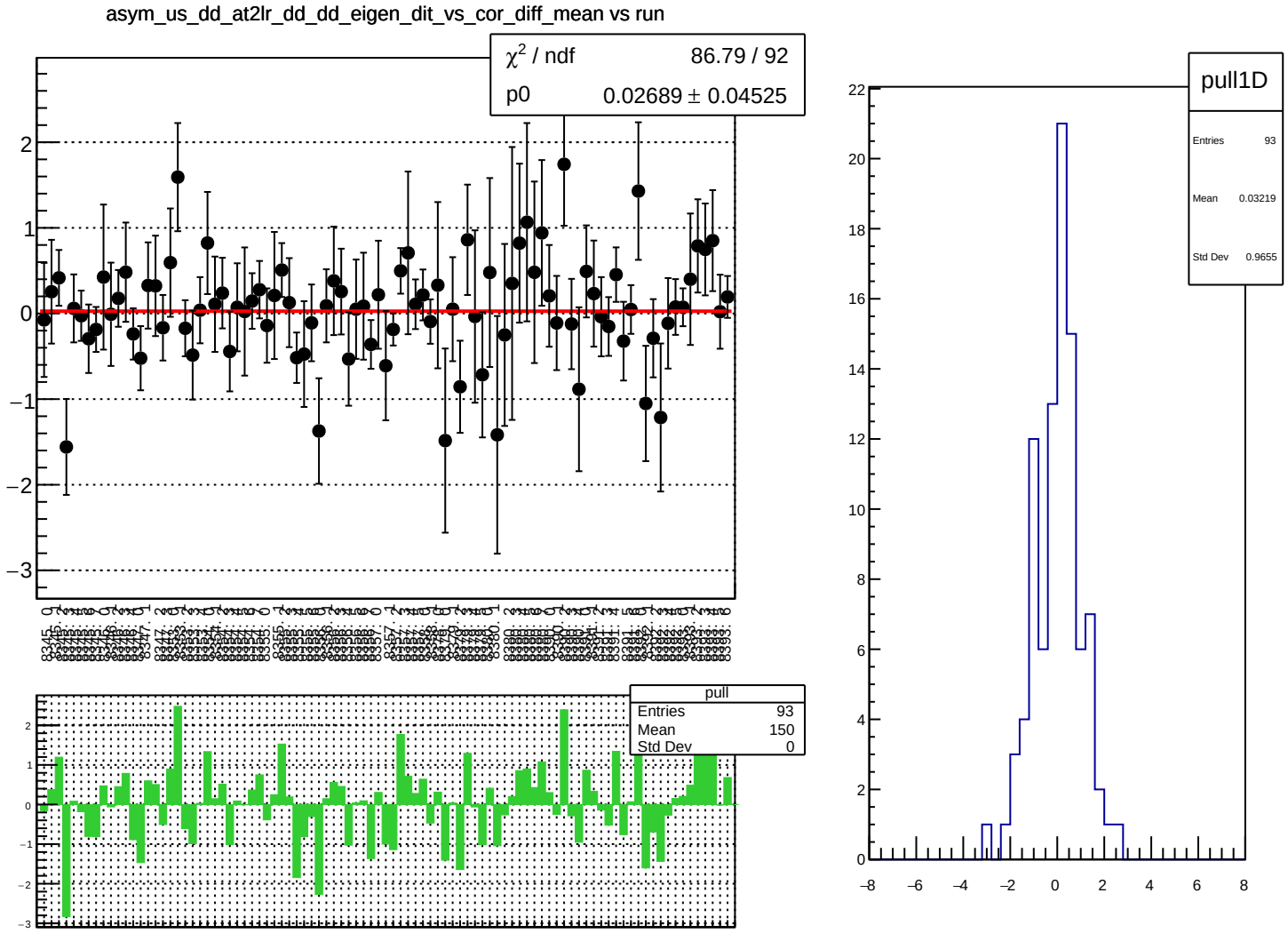

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.571e+05 / 92
p0 39.99 ± 0.032
160
140
120
100
80
60
40
20

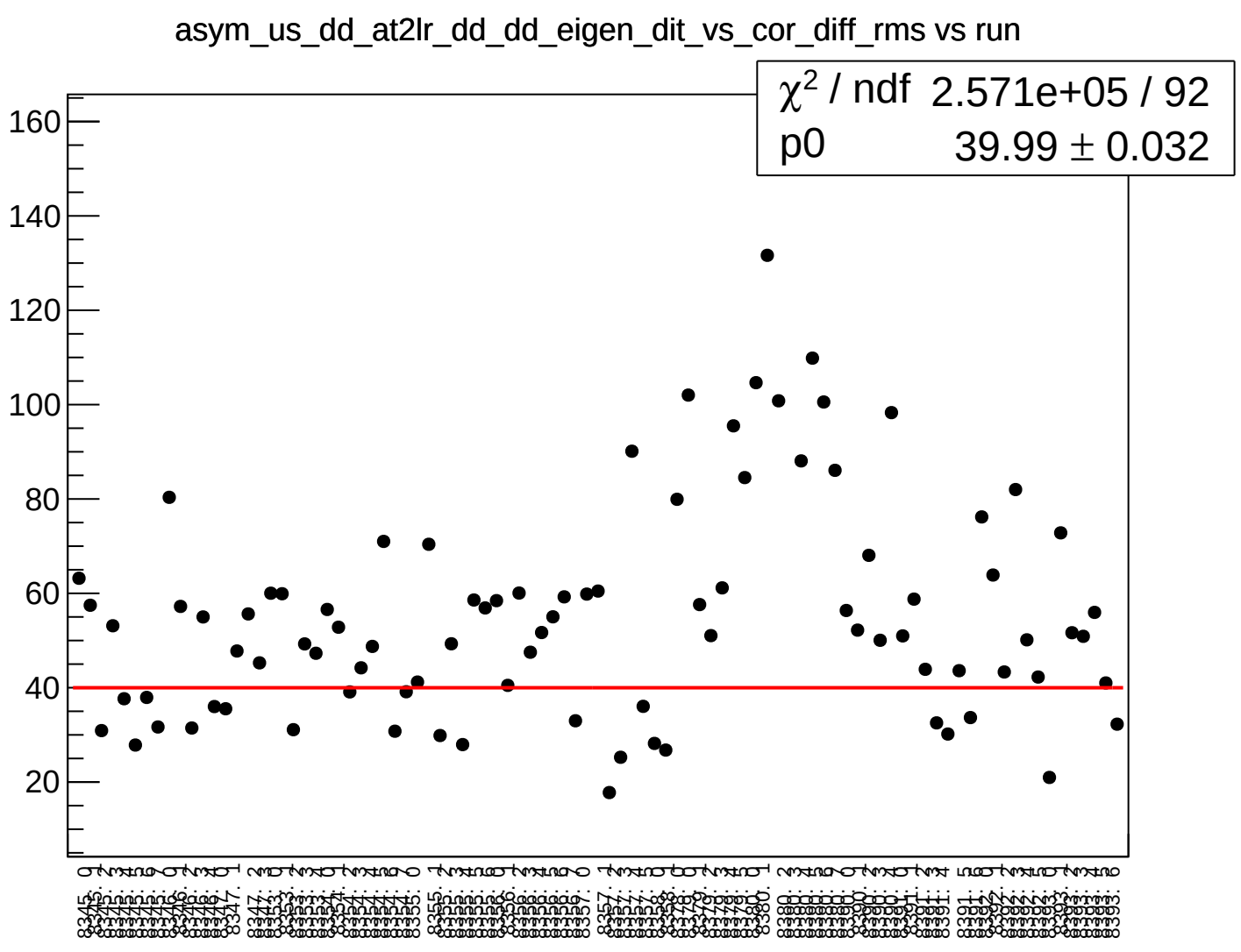

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.79 / 92
p0 0.02693 ± 0.04526
pull
Entries 93
Mean 150
Std Dev 0
pull1D
Entries 93
Mean 0.03222
Std Dev 0.9655

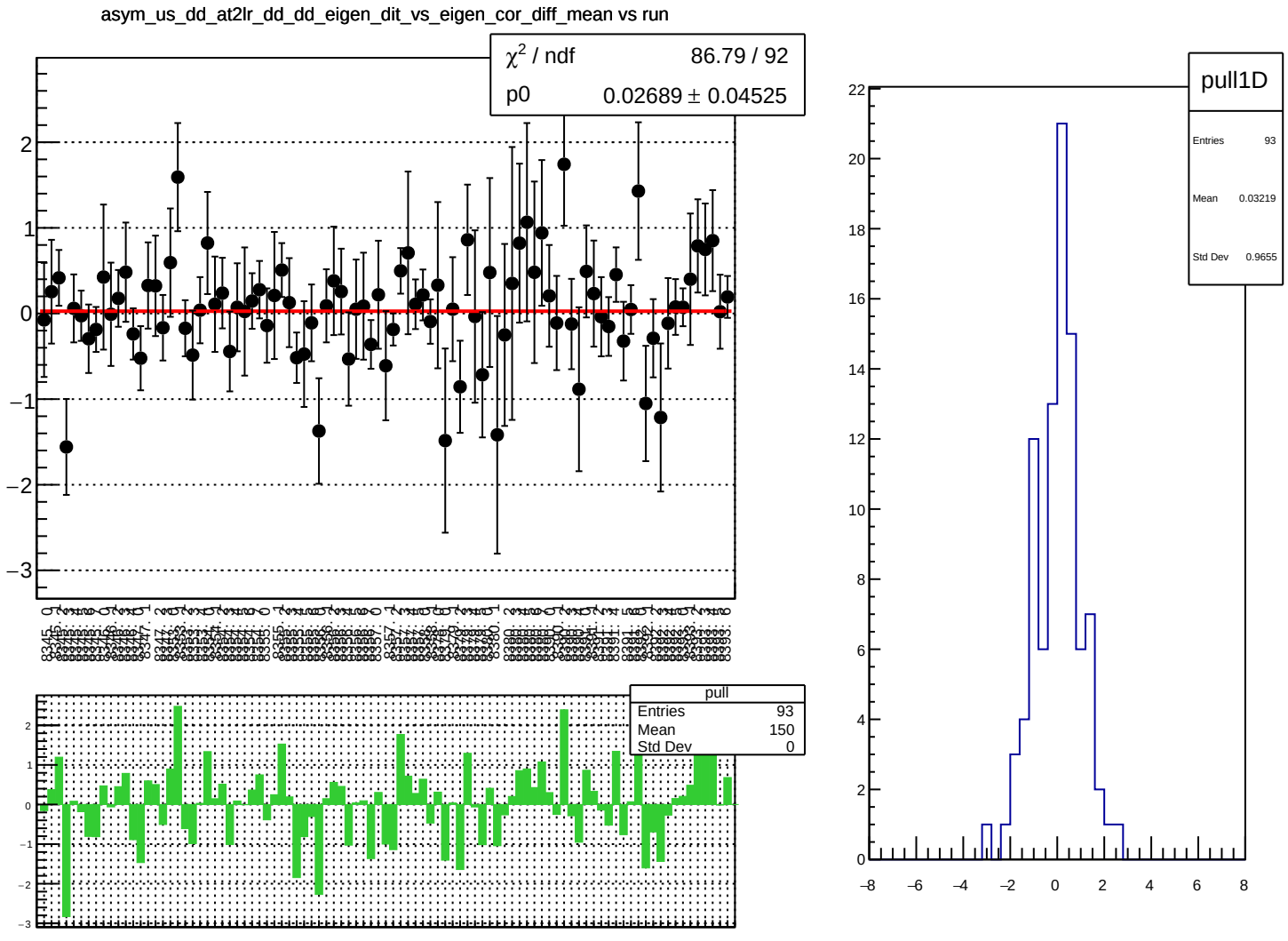

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.571e+05 / 92
p0 39.99 ± 0.032
160
140
120
100
80
60
40
20

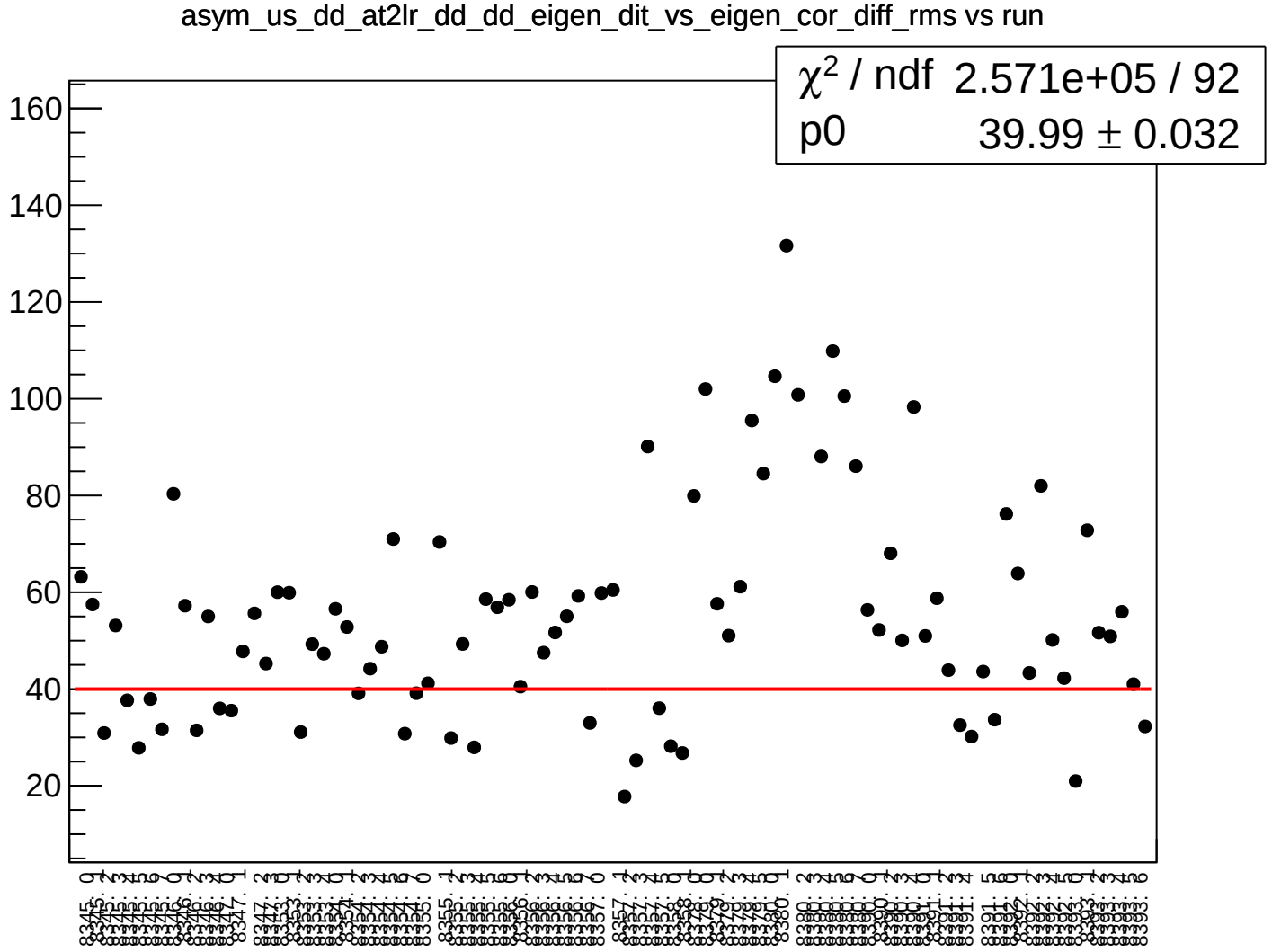

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 127 / 92
p0 −1.193e−05 ± 4.468e−06
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 93
Mean 81.3
Std Dev 19.54
pull1D
Entries 93
Mean −0.2044
Std Dev 1.151

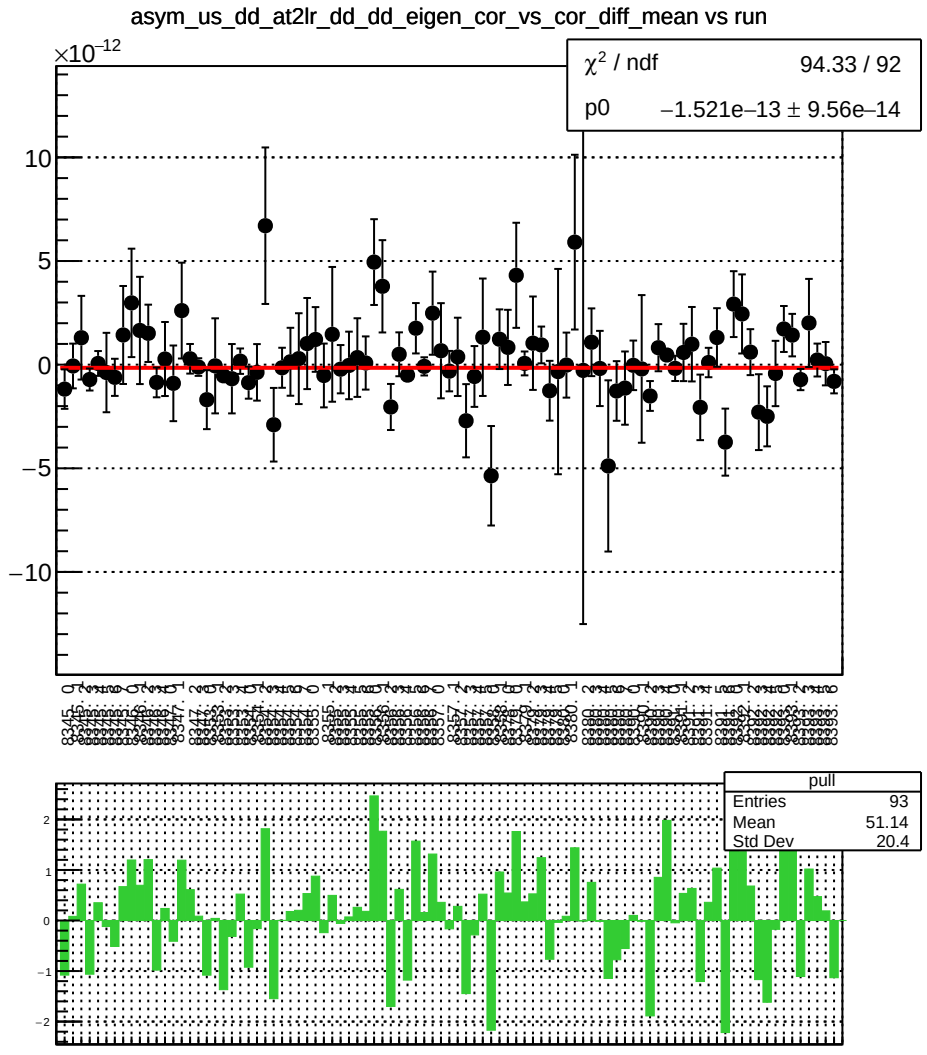

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.98e+05 / 92
p0 0.003766 ± 3.16e−06
0.03
0.025
0.02
0.015
0.01
0.005

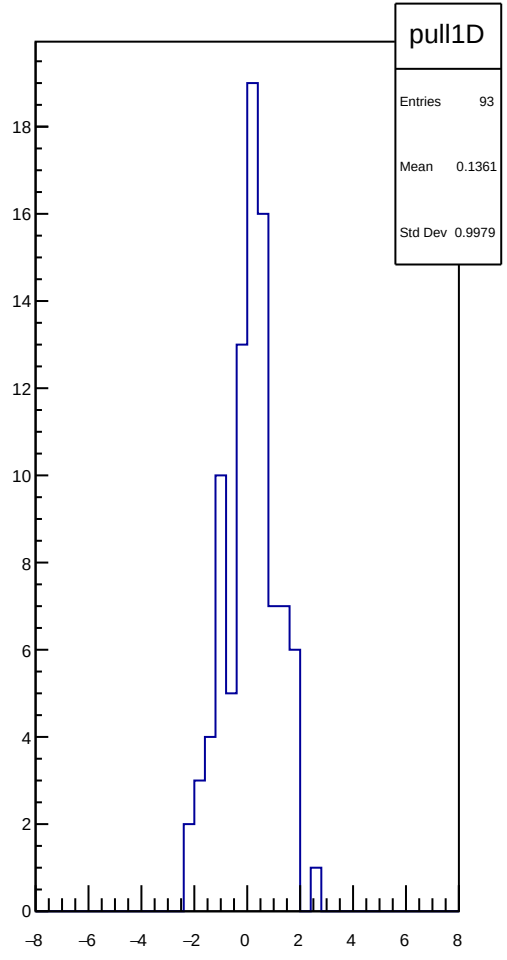

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.79 / 92
p0 0.02689 ± 0.04525
pull
Entries 93
Mean 150
Std Dev 0
pull1D
Entries 93
Mean 0.03219
Std Dev 0.9655

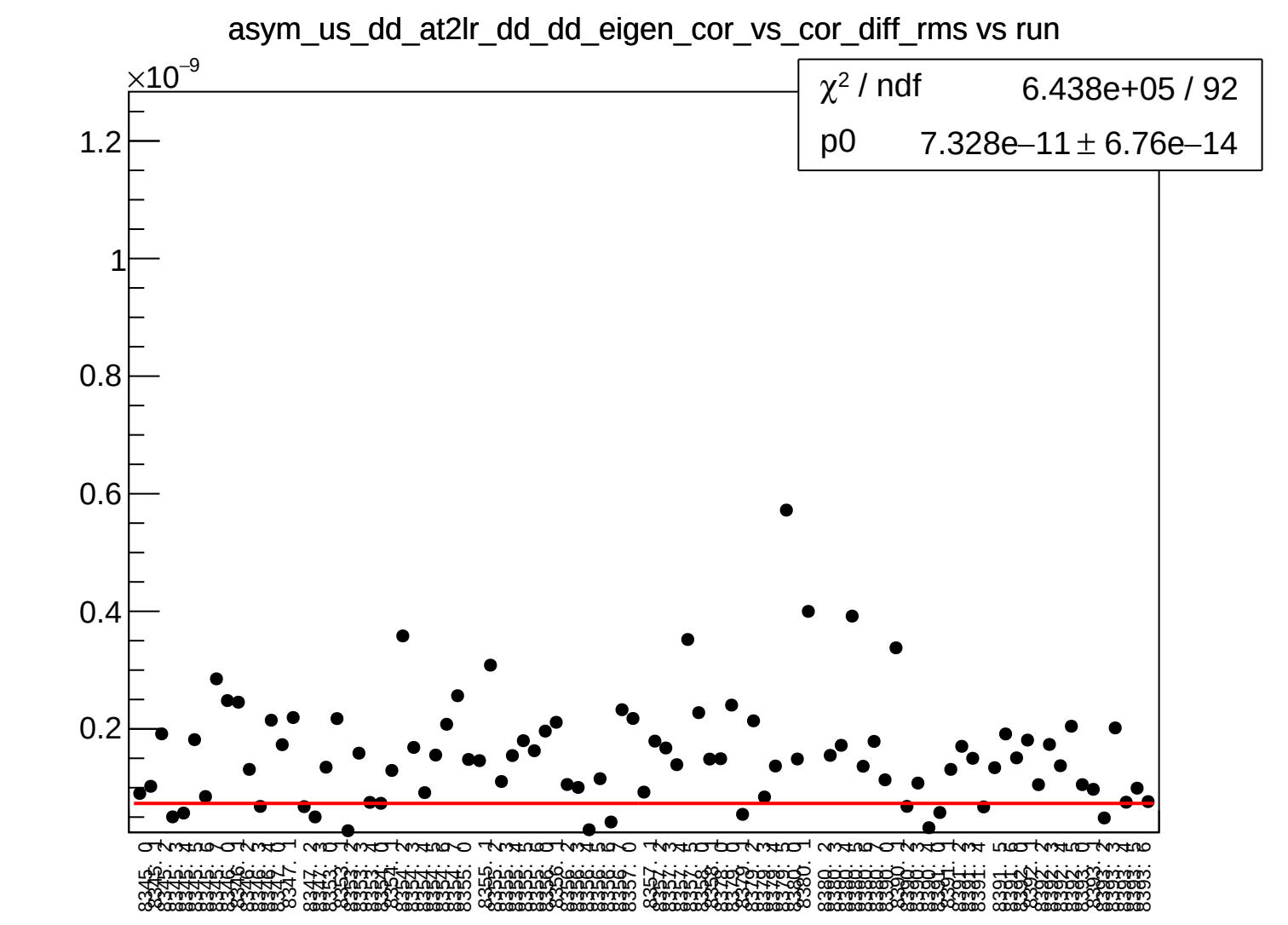

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.571e+05 / 92
p0 39.99 ± 0.032
160
140
120
100
80
60
40
20

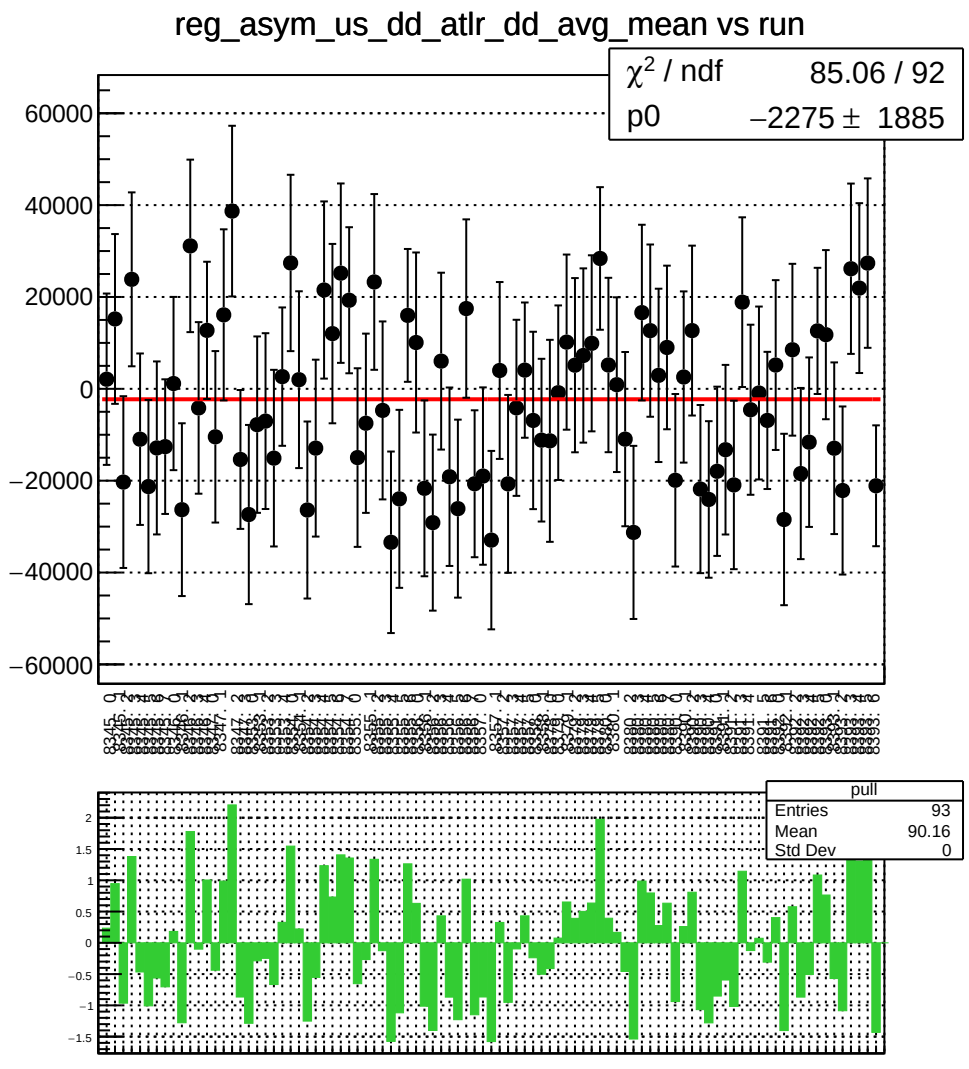

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.79 / 92
p0 0.02689 ± 0.04525
pull
Entries 93
Mean 150
Std Dev 0
pull1D
Entries 93
Mean 0.03219
Std Dev 0.9655

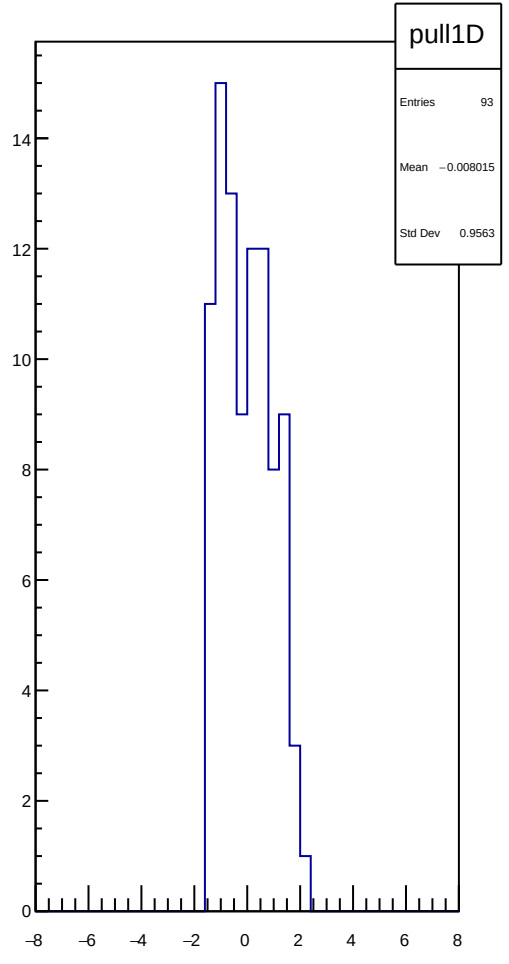

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.571e+05 / 92
p0 39.99 ± 0.032
160
140
120
100
80
60
40
20

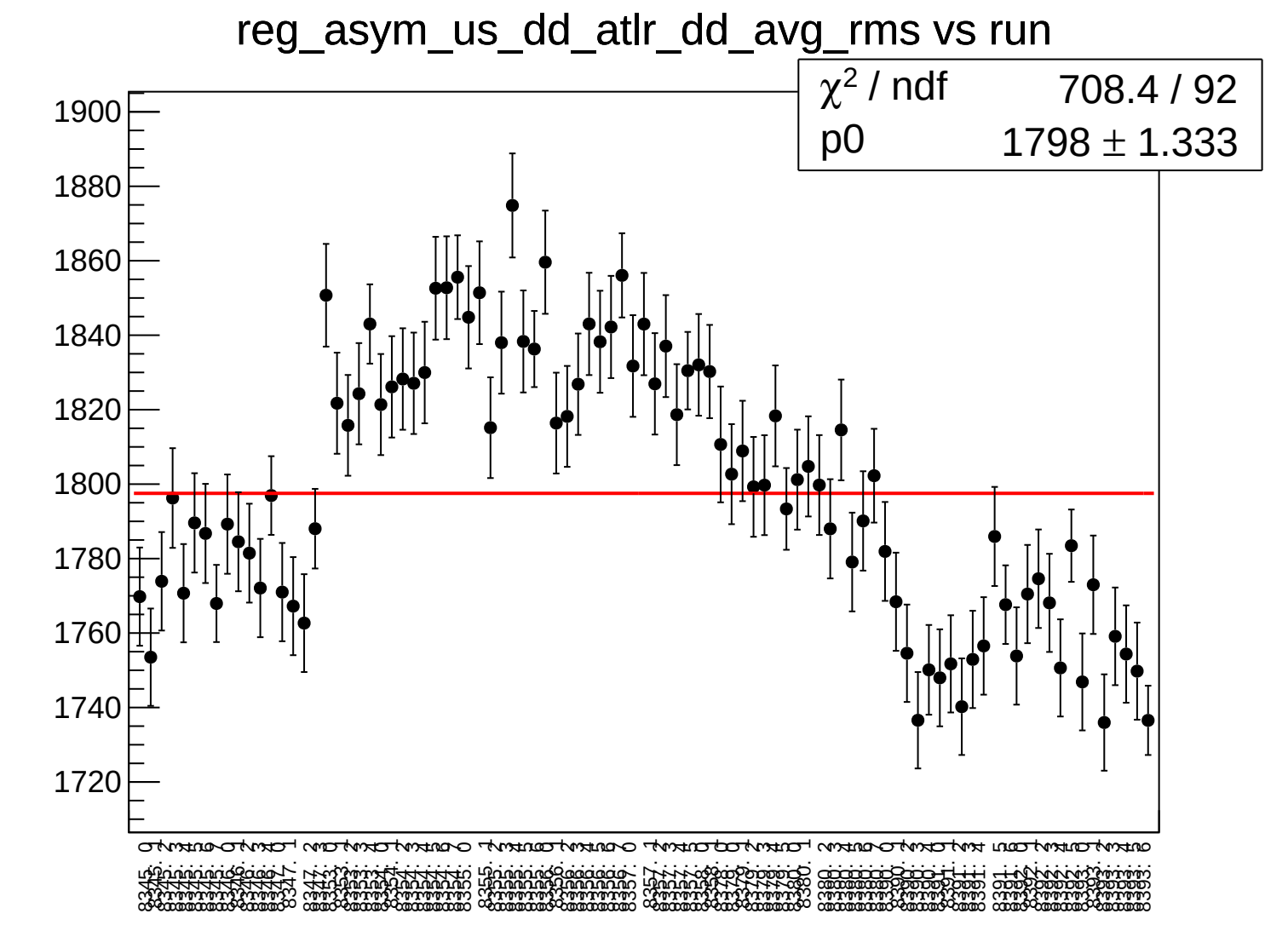

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.33 / 92
p0 −1.521e−13 ± 9.56e−14
10
5
0
−5
−10
pull
Entries 93
Mean 51.14
Std Dev 20.4
2
1
0
−1
−2

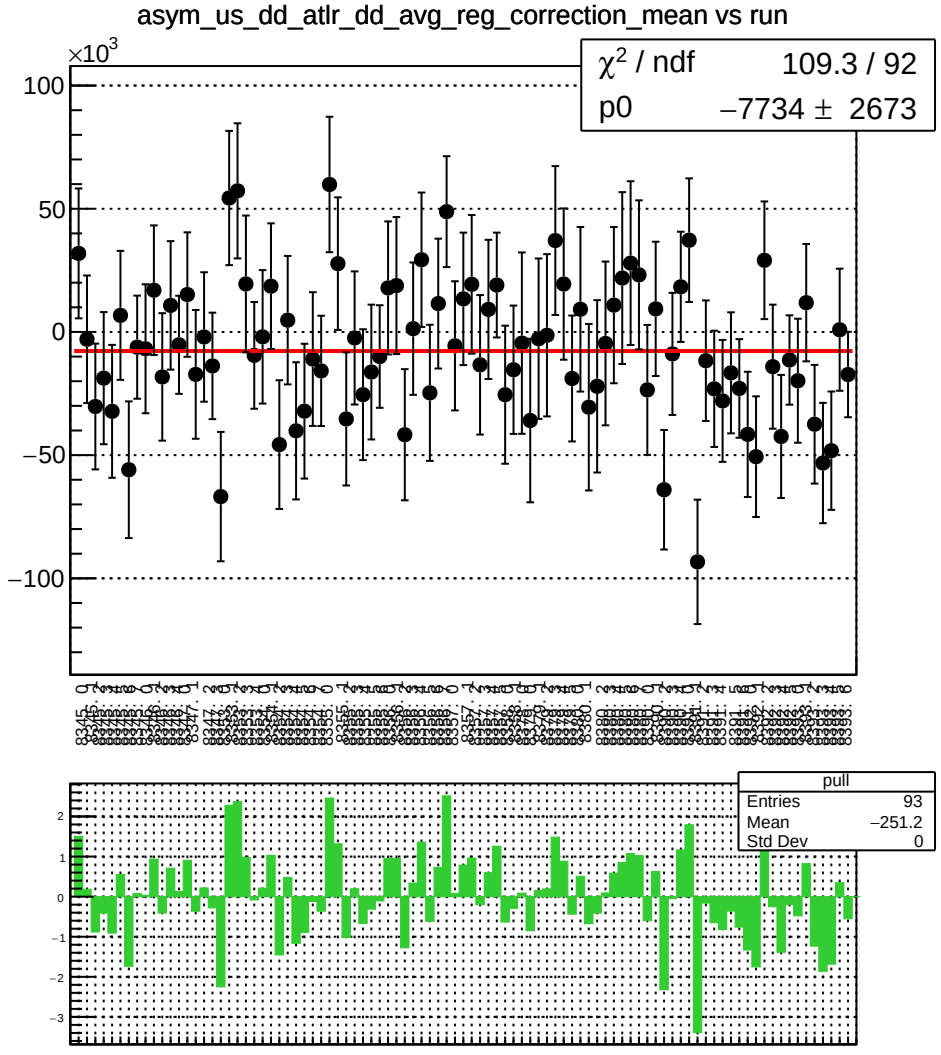

pull1D
Entries 93
Mean 0.1361
Std Dev 0.9979
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

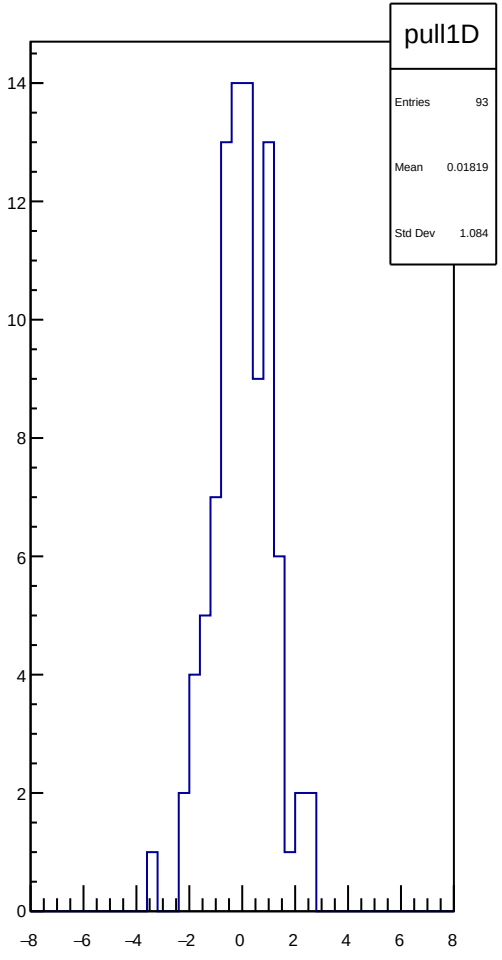

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.438e+05 / 92
p0 7.328e−11 ± 6.76e−14
1.2
1
0.8
0.6
0.4
0.2

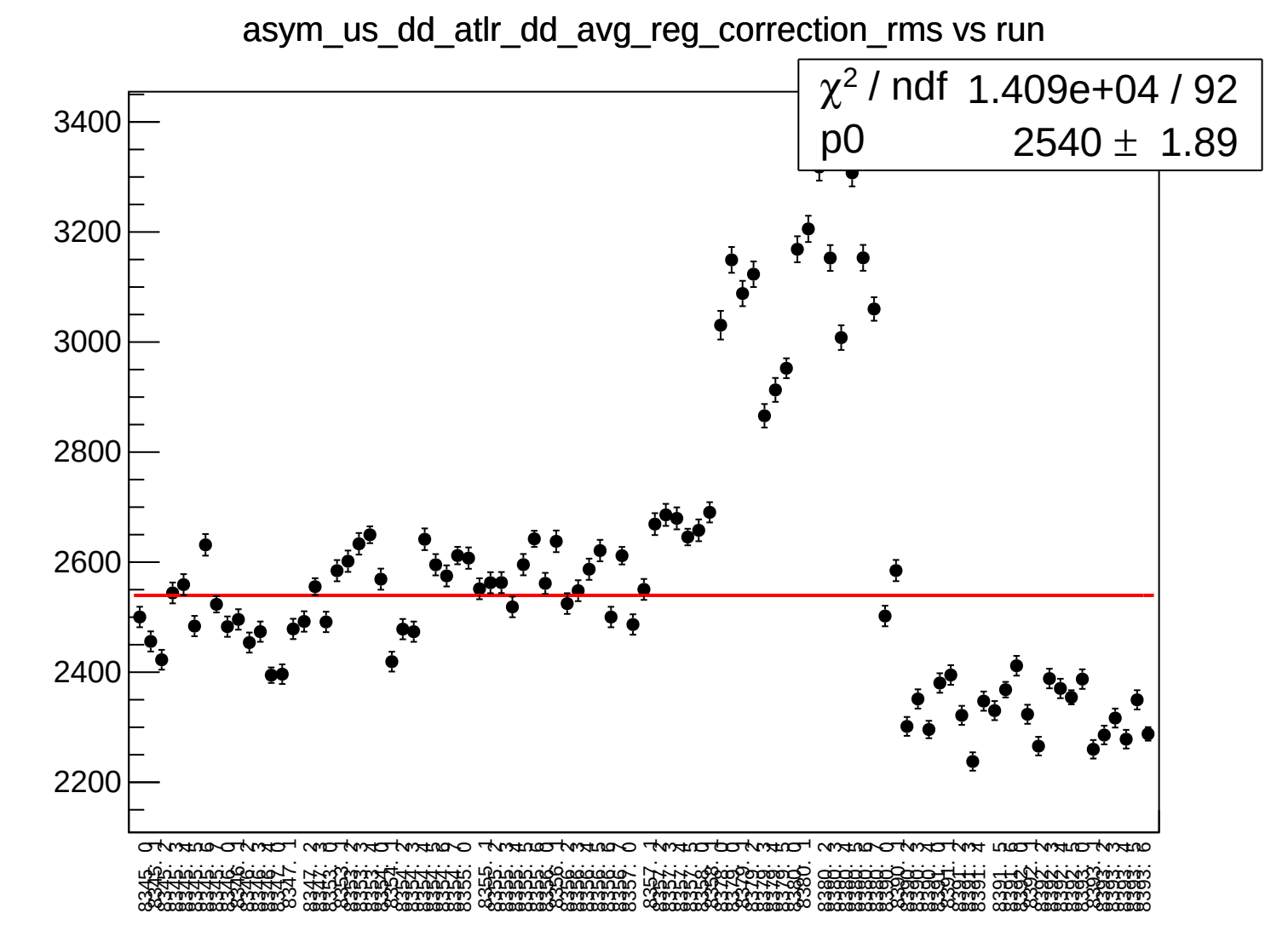

reg_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 85.06 / 92
p0 −2275 ± 1885
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 90.16
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

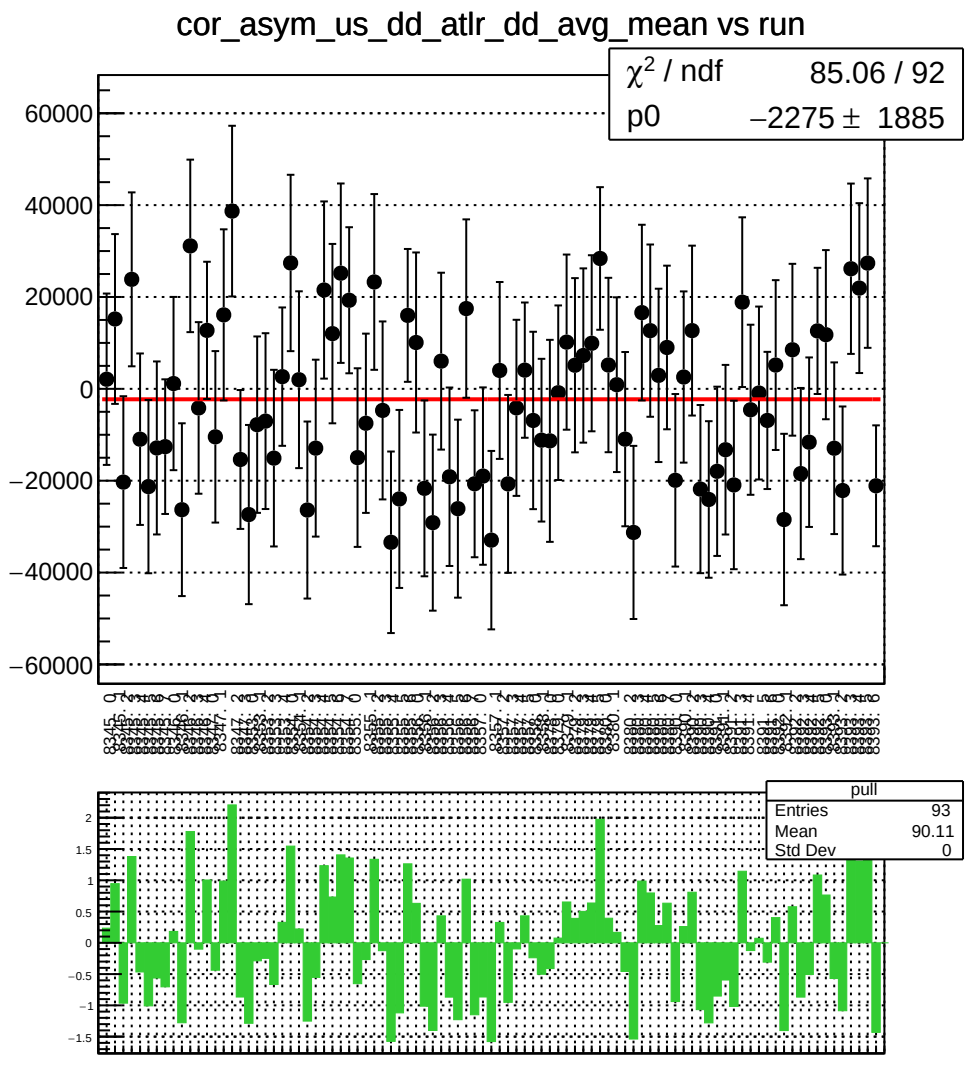

pull1D
Entries 93
Mean −0.008015
Std Dev 0.9563
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

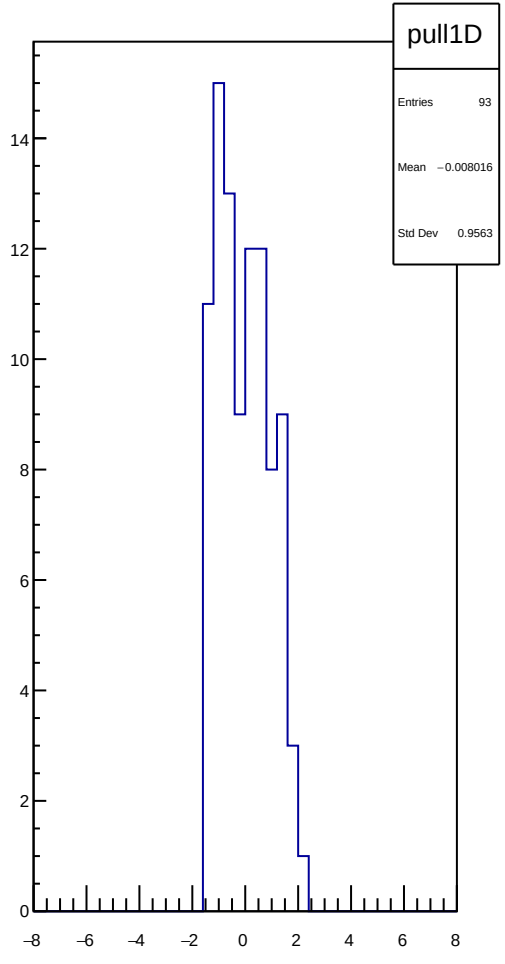

reg_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 708.4 / 92
p0 1798 ± 1.333
1900
1880
1860
1840
1820
1800
1780
1760
1740
1720

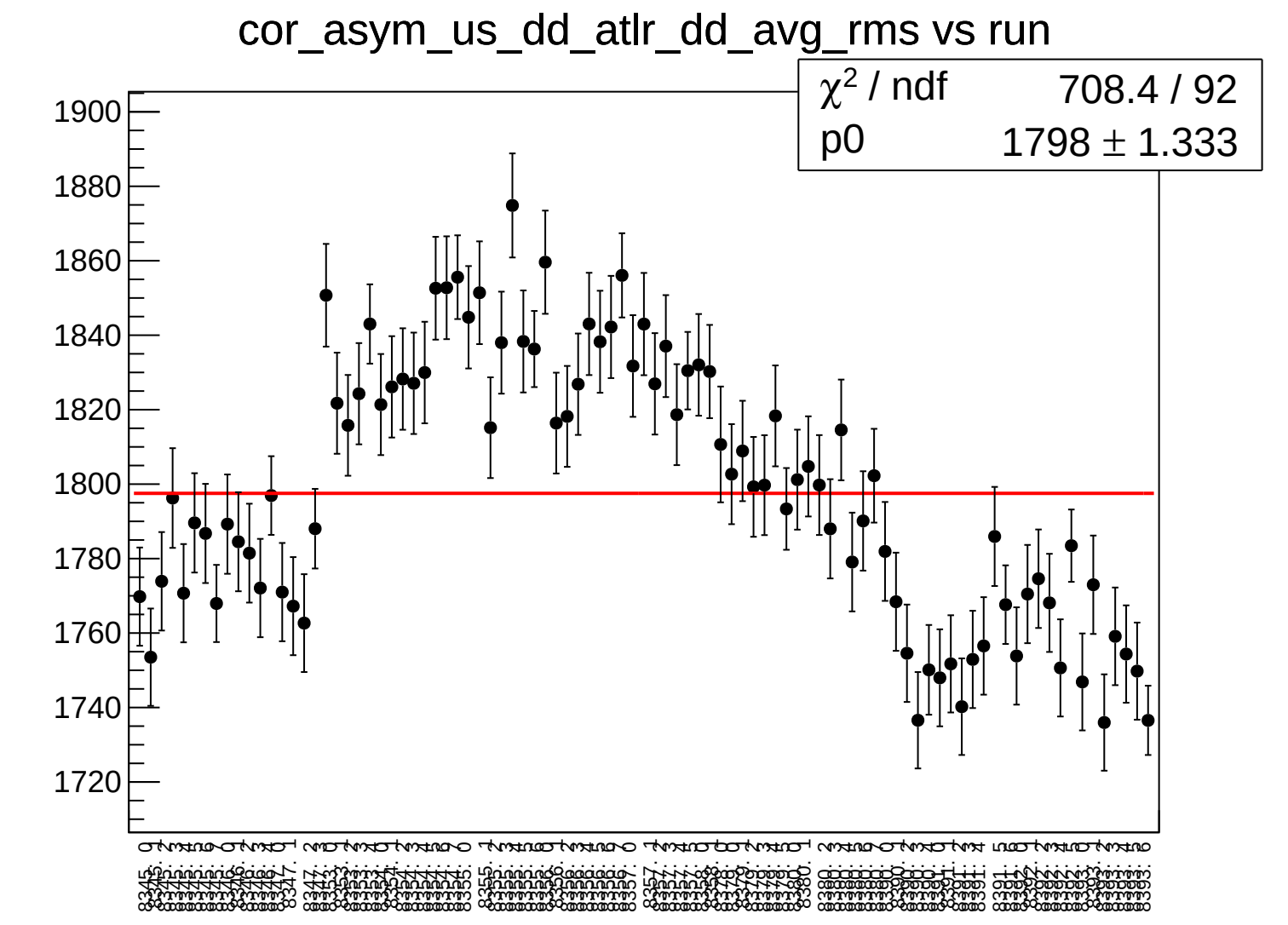

asym_us_dd_atlr_dd_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 109.3 / 92
p0 −7734 ± 2673
100
50
0
−50
−100
pull
Entries 93
Mean −251.2
Std Dev 0
2
1
0
−1
−2
−3

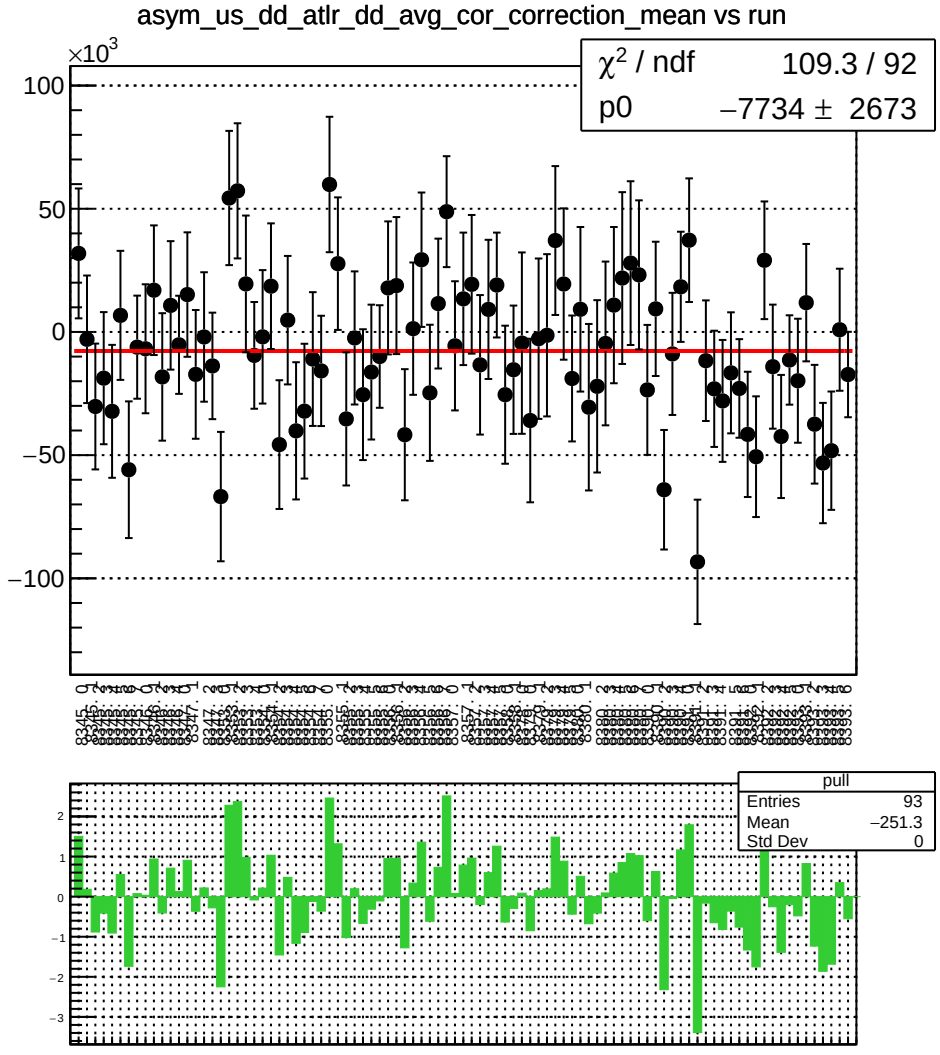

pull1D
Entries 93
Mean 0.01819
Std Dev 1.084
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

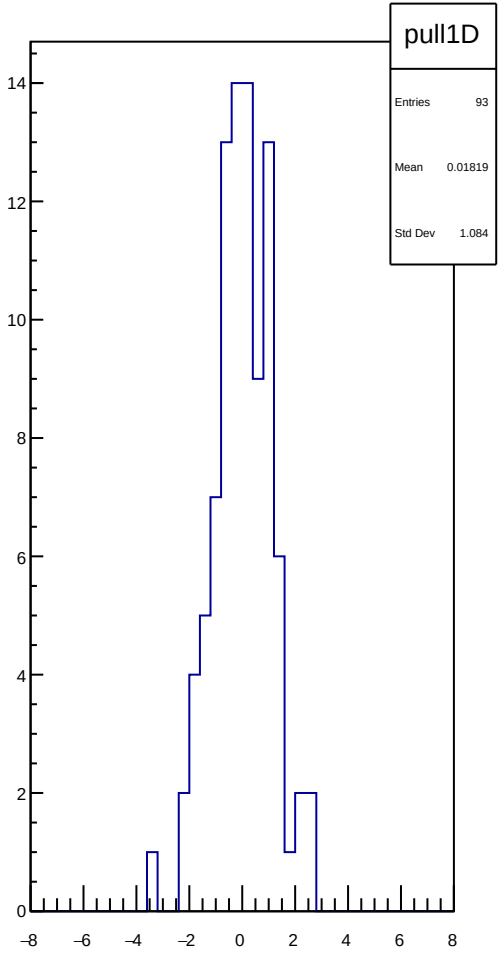

asym_us_dd_atlr_dd_avg_reg_correction_rms vs run
χ² / ndf 1.409e+04 / 92
p0 2540 ± 1.89
3400
3200
3000
2800
2600
2400
2200

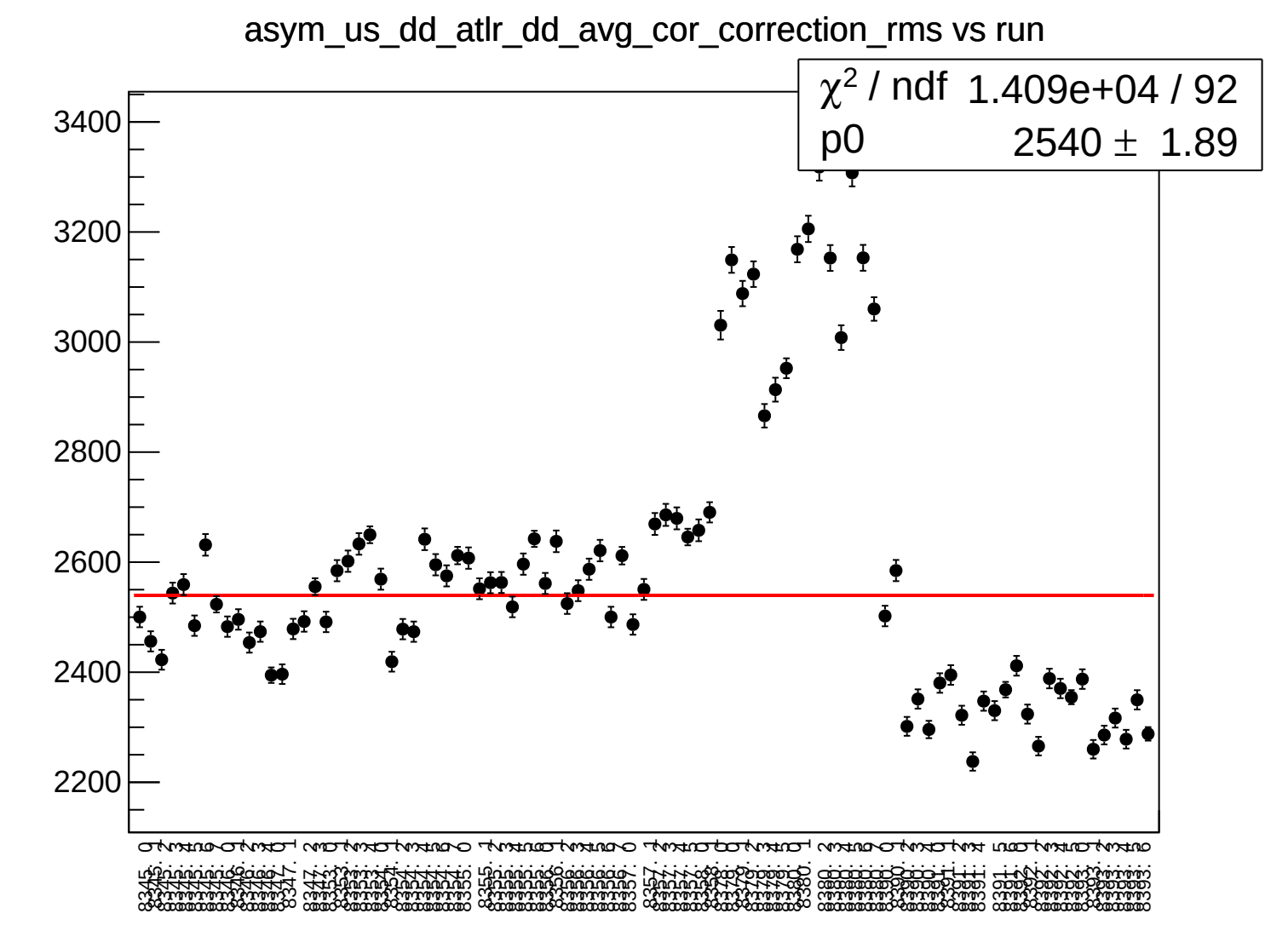

cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 85.06 / 92
p0 −2275 ± 1885
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 90.11
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

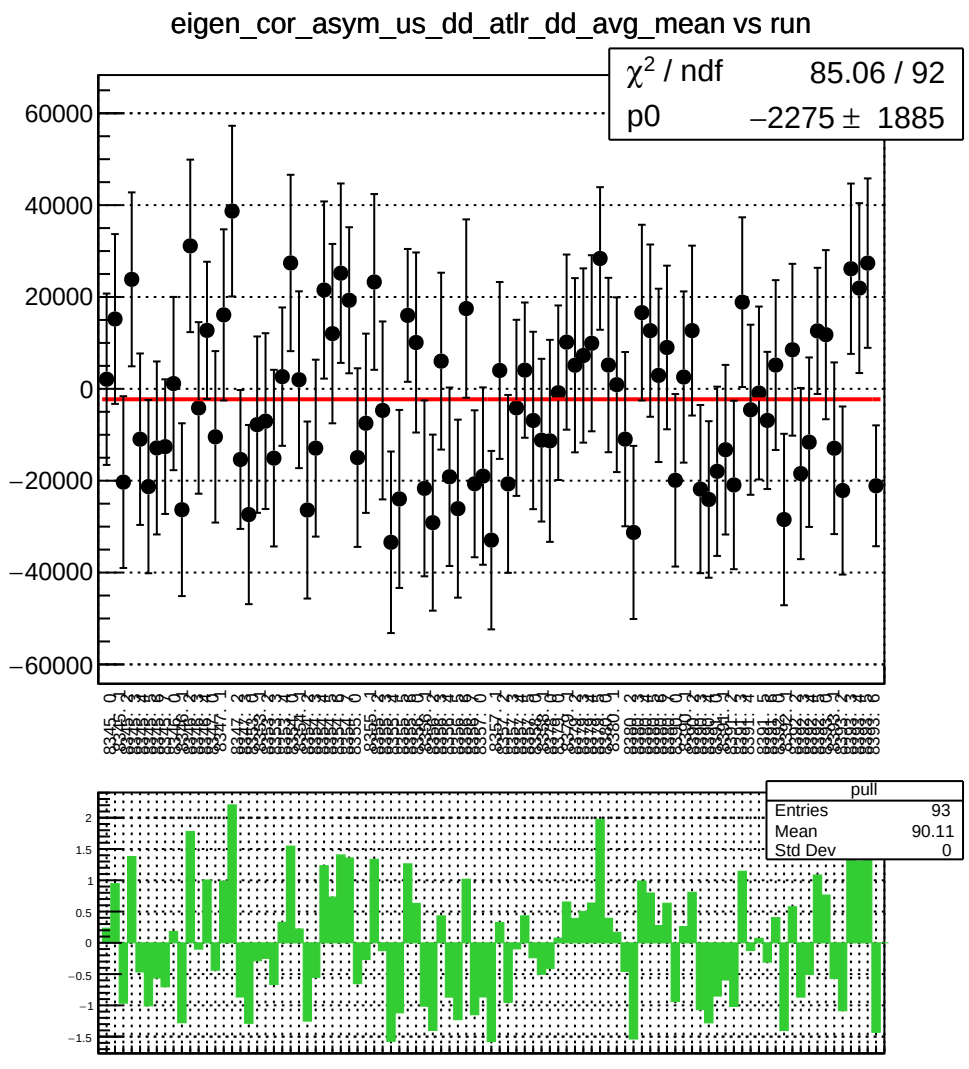

pull1D
Entries 93
Mean −0.008016
Std Dev 0.9563
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

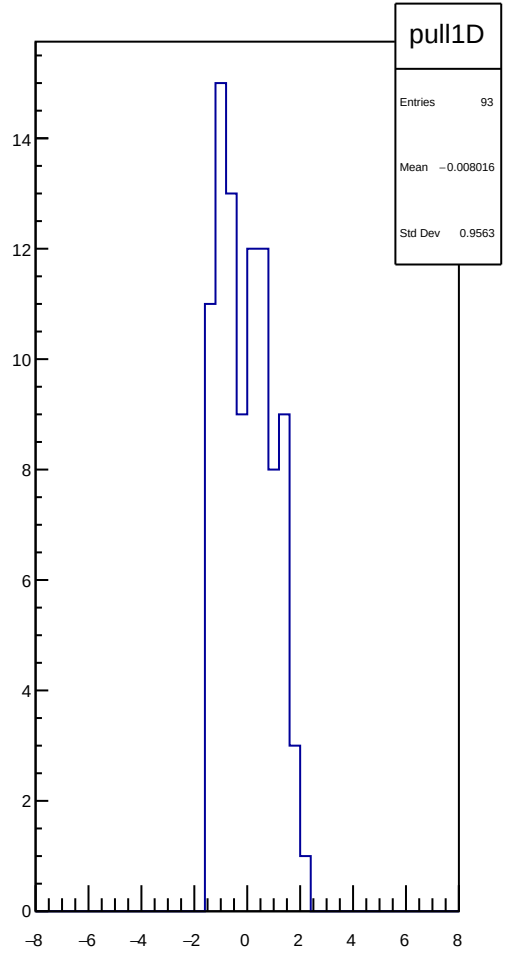

cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 708.4 / 92
p0 1798 ± 1.333
1900
1880
1860
1840
1820
1800
1780
1760
1740
1720

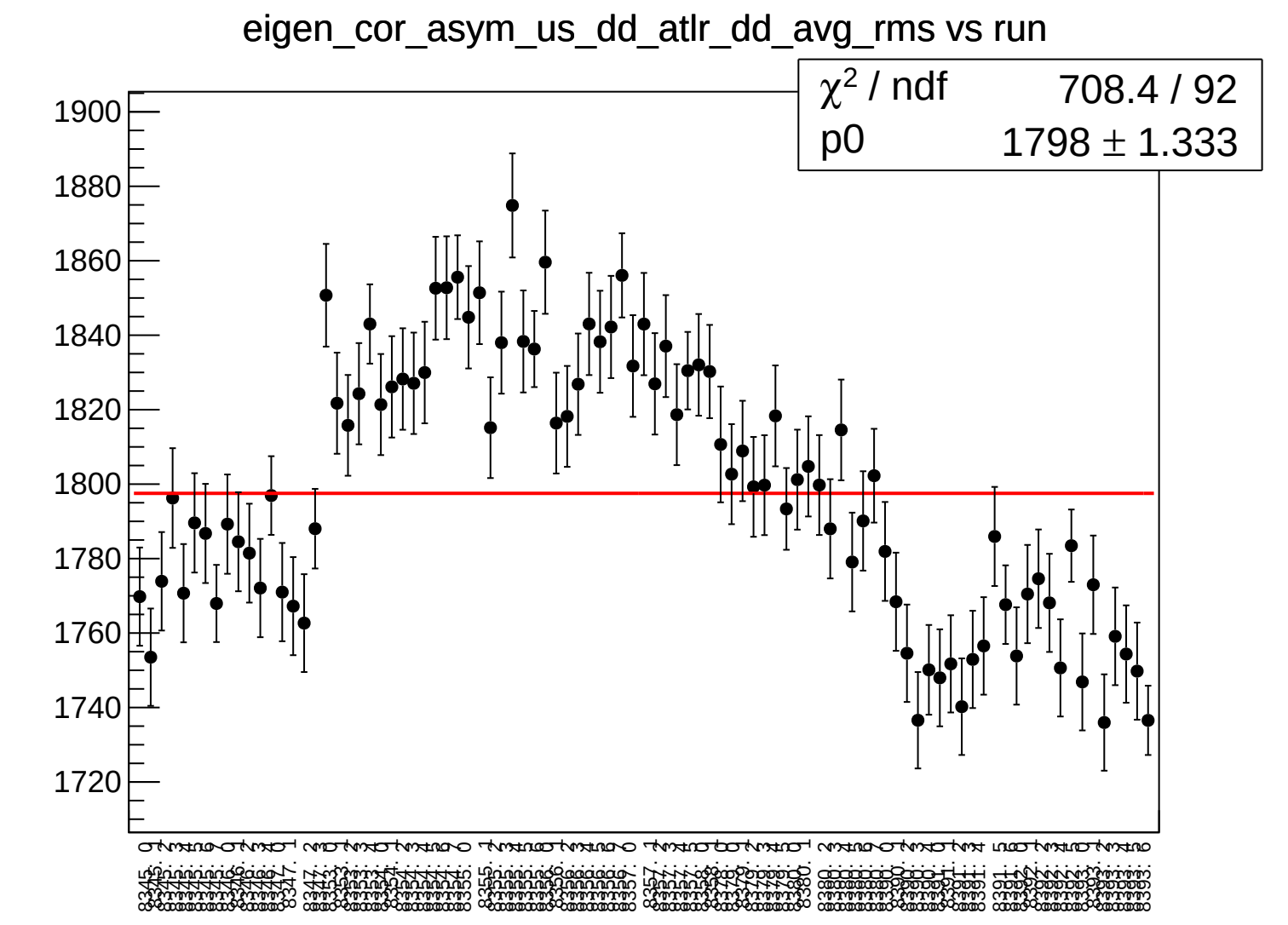

asym_us_dd_atlr_dd_avg_cor_correction_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 109.3 / 92
p0 −7734 ± 2673
pull
Entries 93
Mean −251.3
Std Dev 0
2
1
0
−1
−2
−3

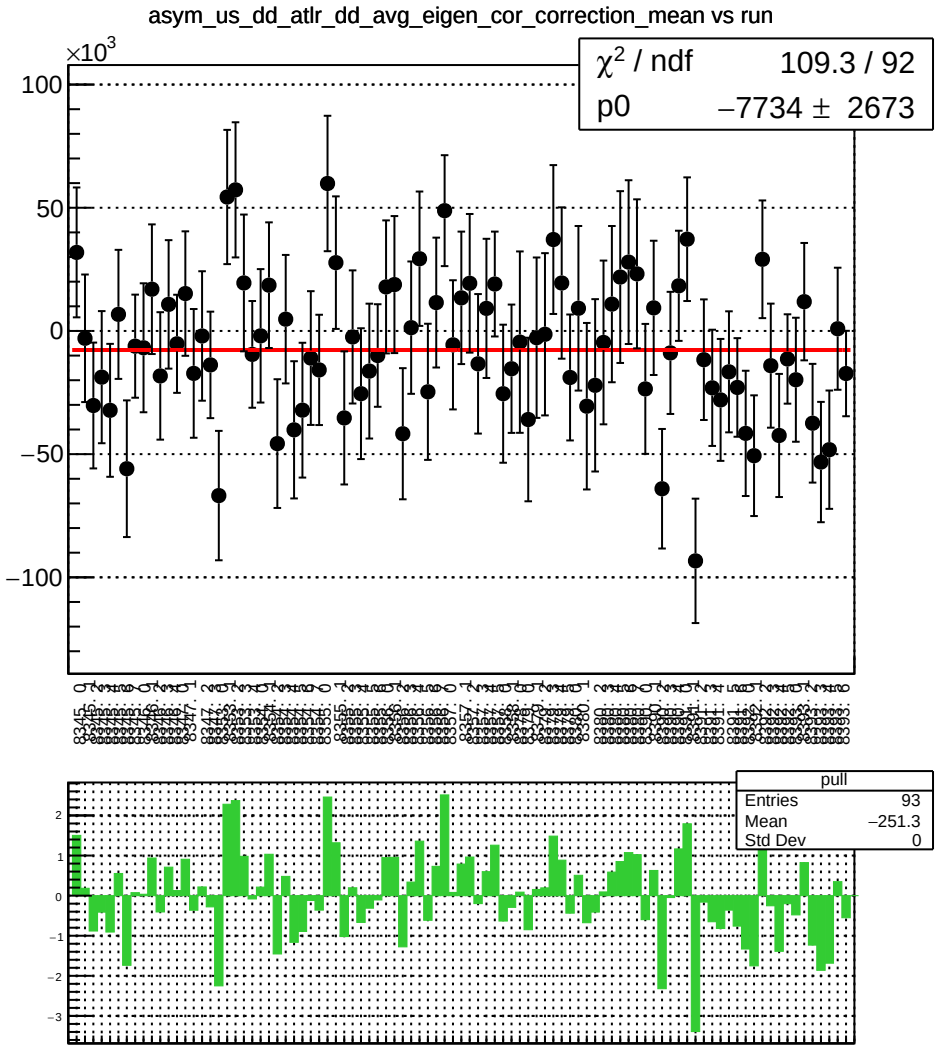

pull1D
Entries 93
Mean 0.01819
Std Dev 1.084
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

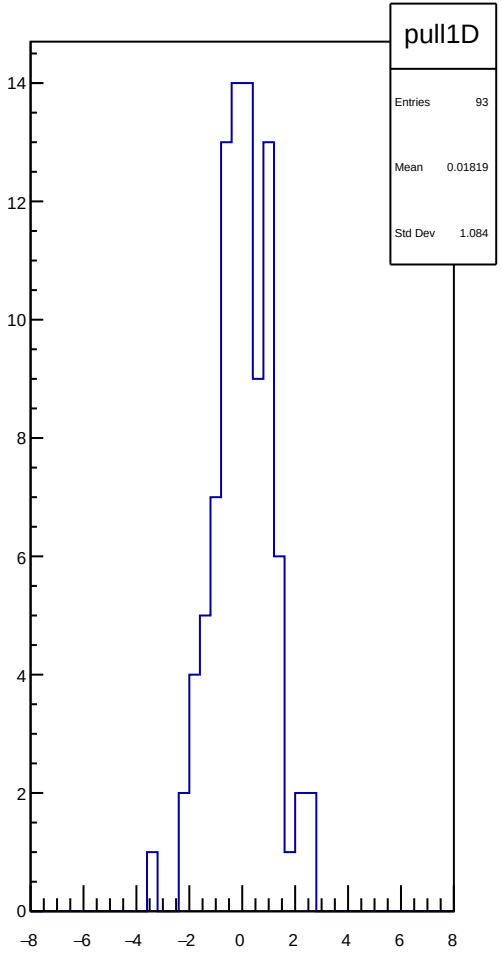

asym_us_dd_atlr_dd_avg_cor_correction_rms vs run
χ² / ndf 1.409e+04 / 92
p0 2540 ± 1.89
3400
3200
3000
2800
2600
2400
2200

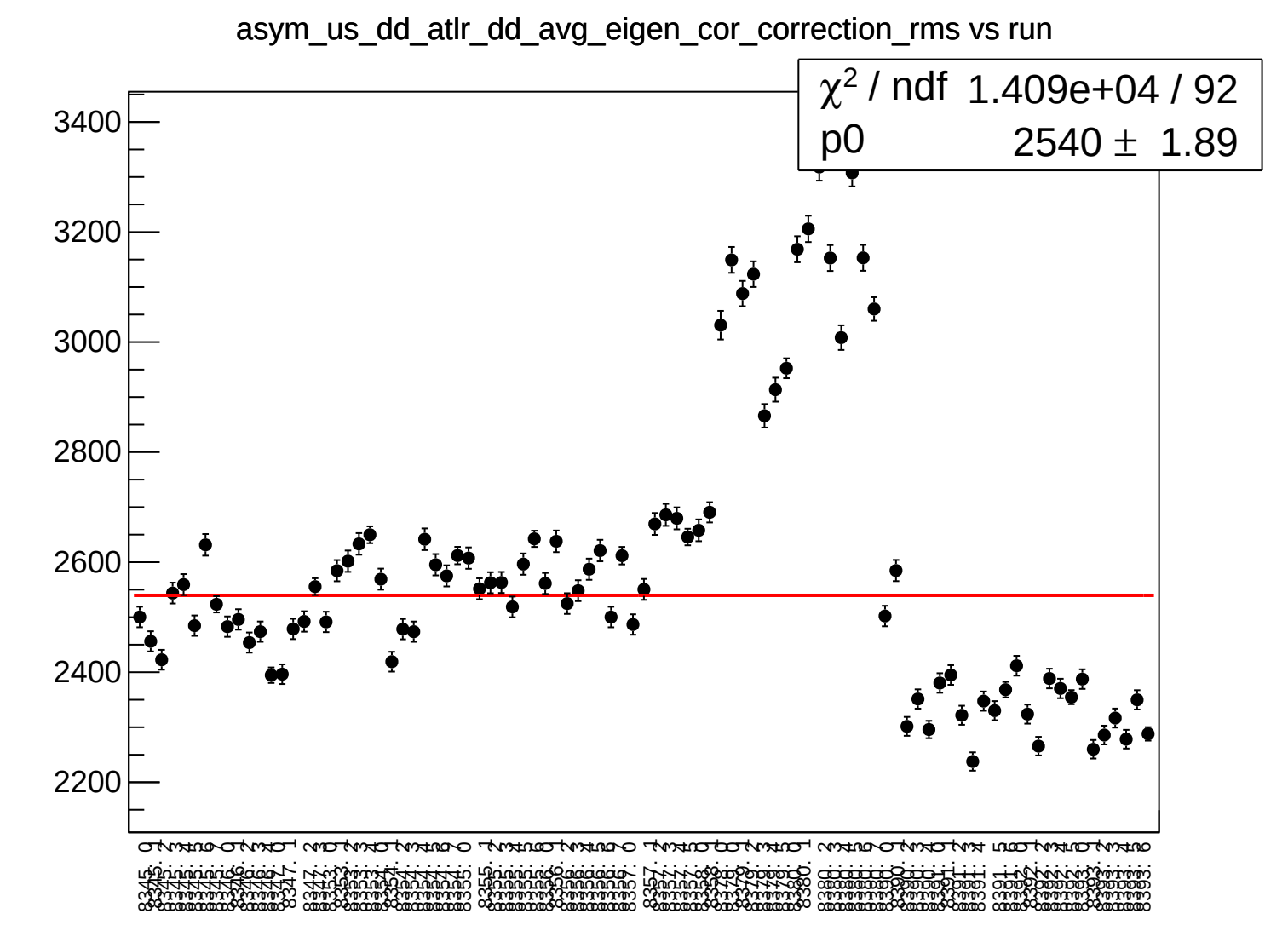

eigen_cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 85.06 / 92
p0 −2275 ± 1885
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 90.11
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

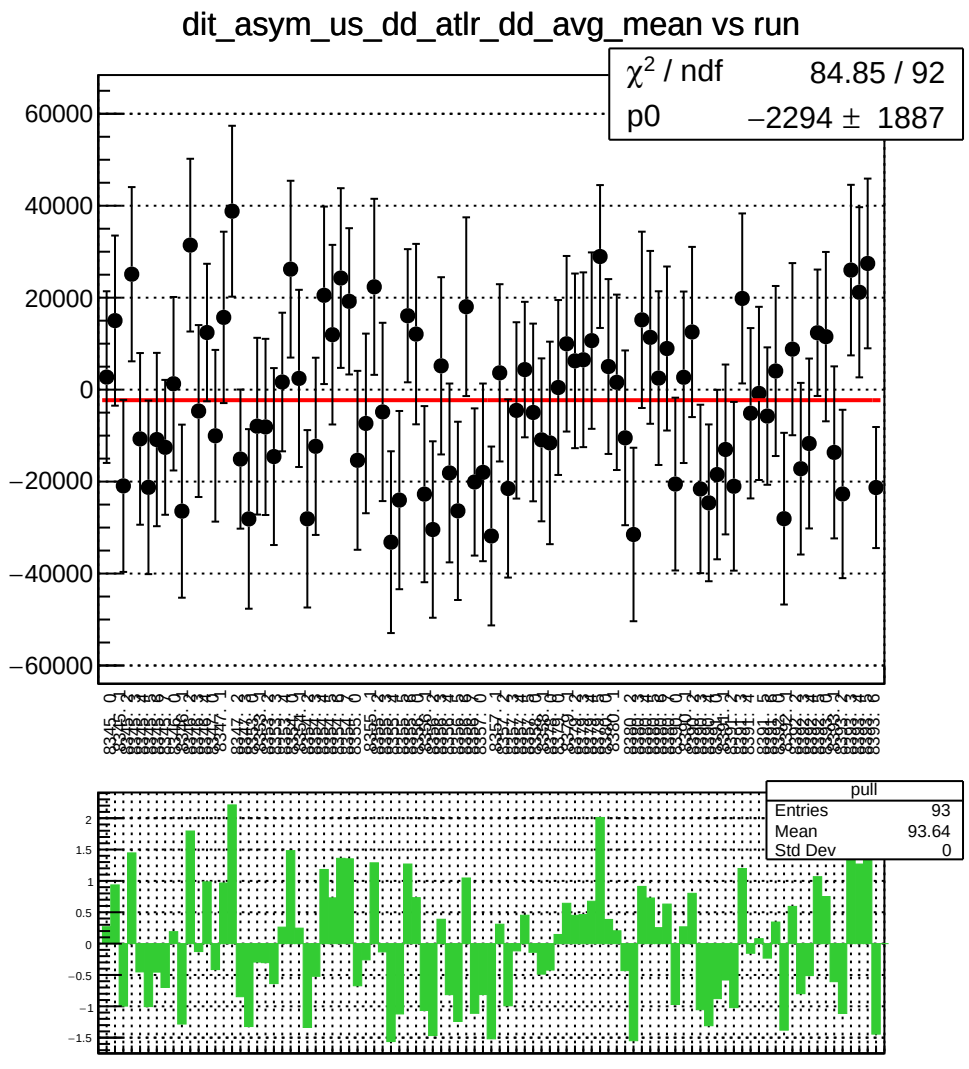

pull1D
Entries 93
Mean −0.008016
Std Dev 0.9563
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

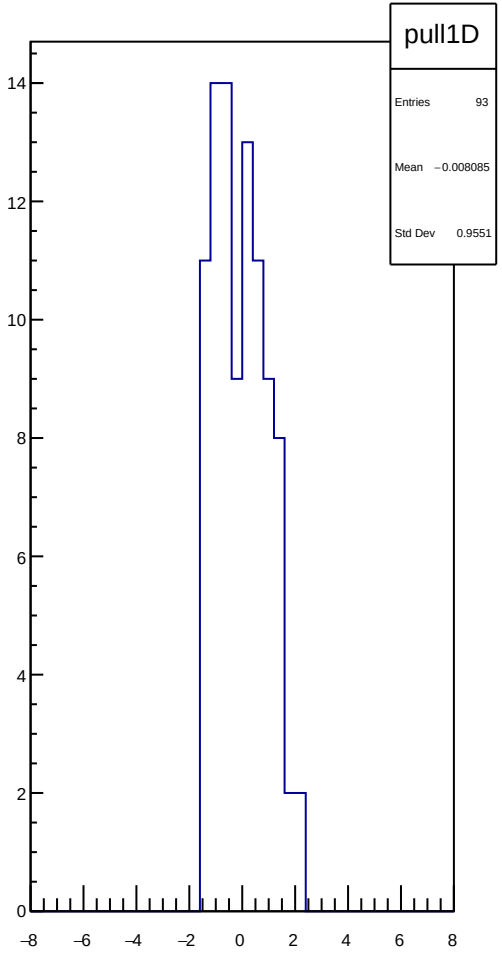

eigen_cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 708.4 / 92
p0 1798 ± 1.333
1900
1880
1860
1840
1820
1800
1780
1760
1740
1720

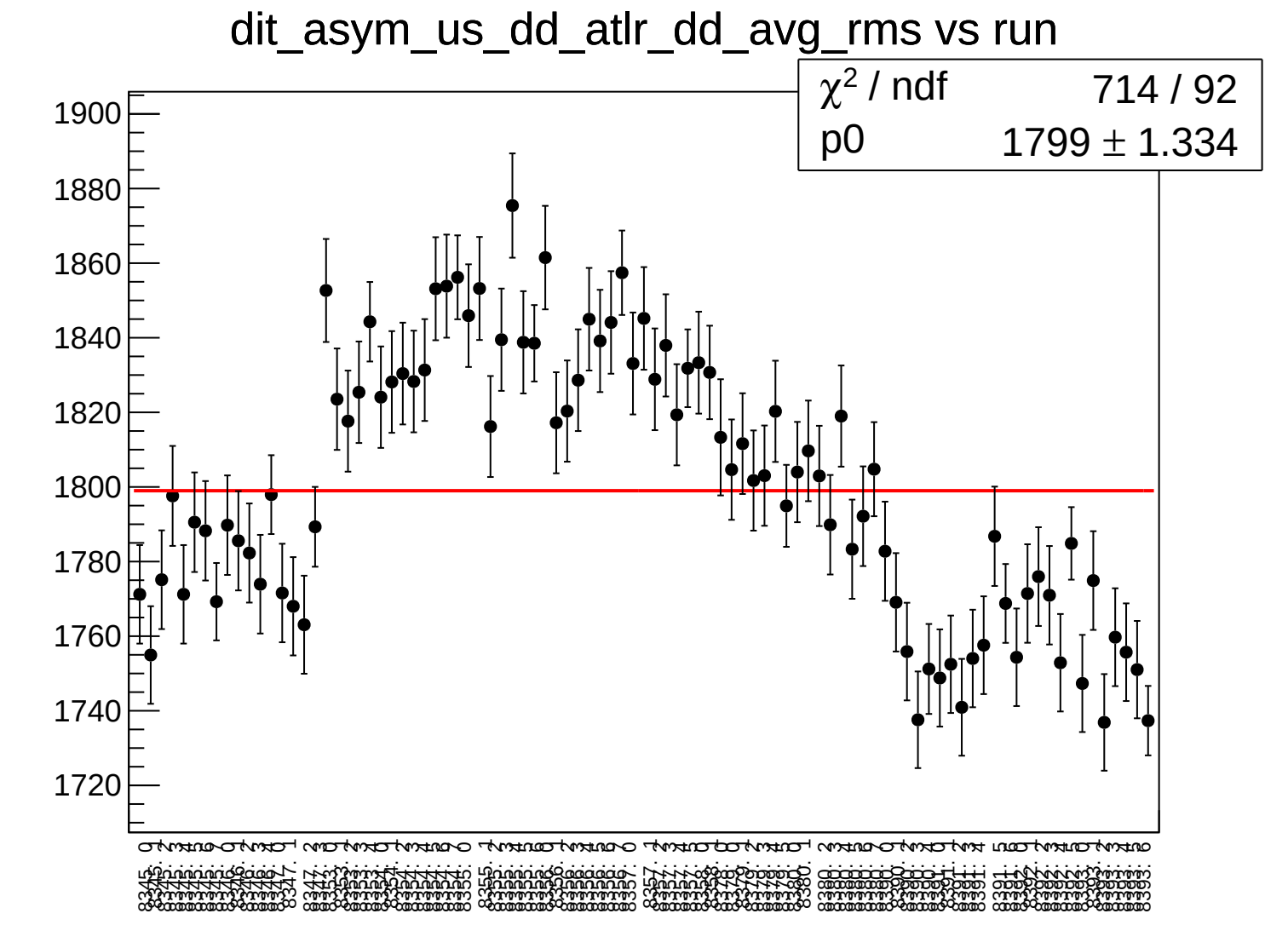

asym_us_dd_atlr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 109.3 / 92
p0 −7734 ± 2673
pull
Entries 93
Mean −251.3
Std Dev 0

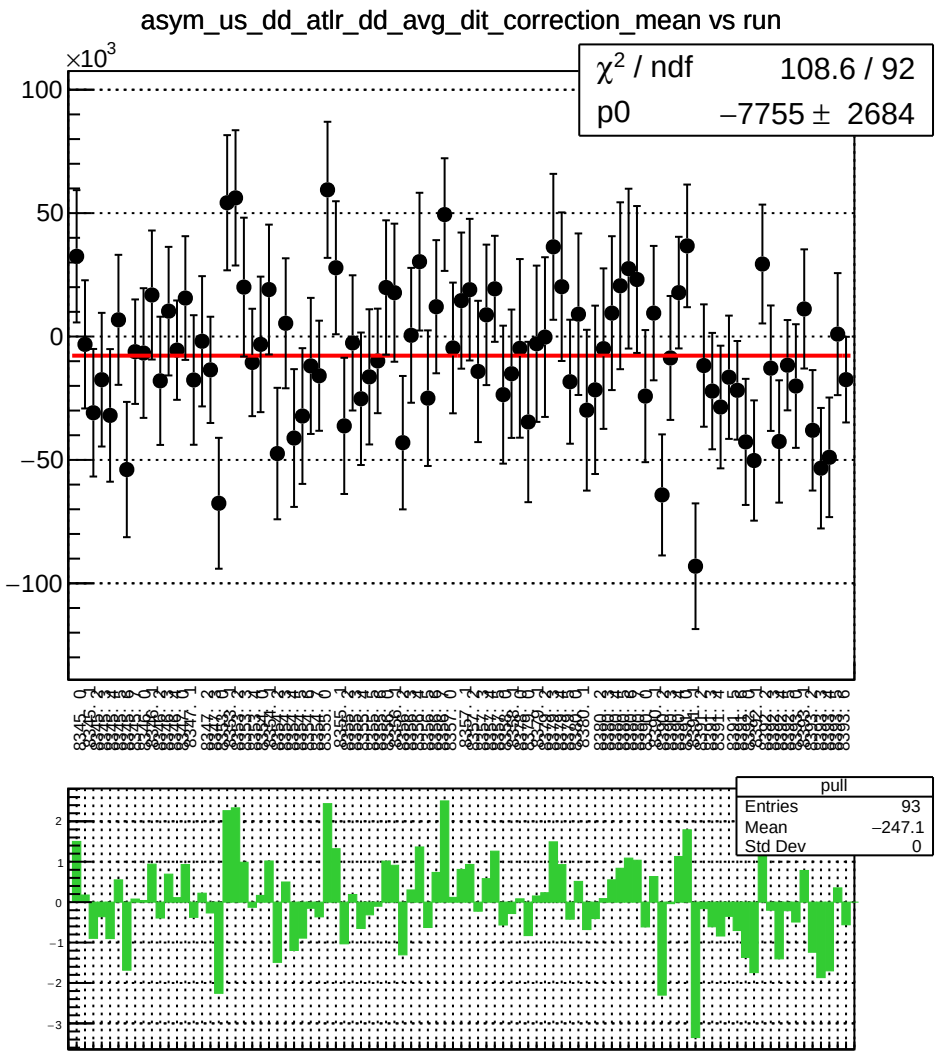

pull1D
Entries 93
Mean 0.01819
Std Dev 1.084

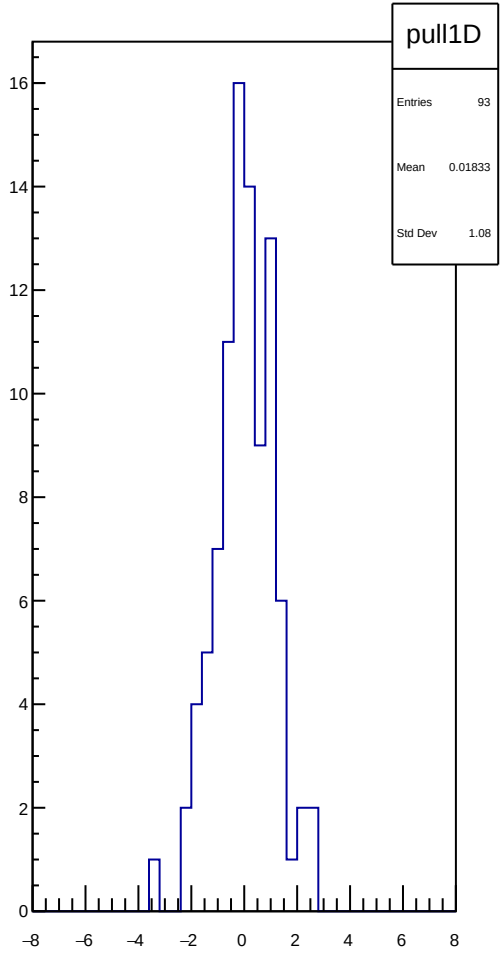

asym_us_dd_atlr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.409e+04 / 92
p0 2540 ± 1.89
3400
3200
3000
2800
2600
2400
2200

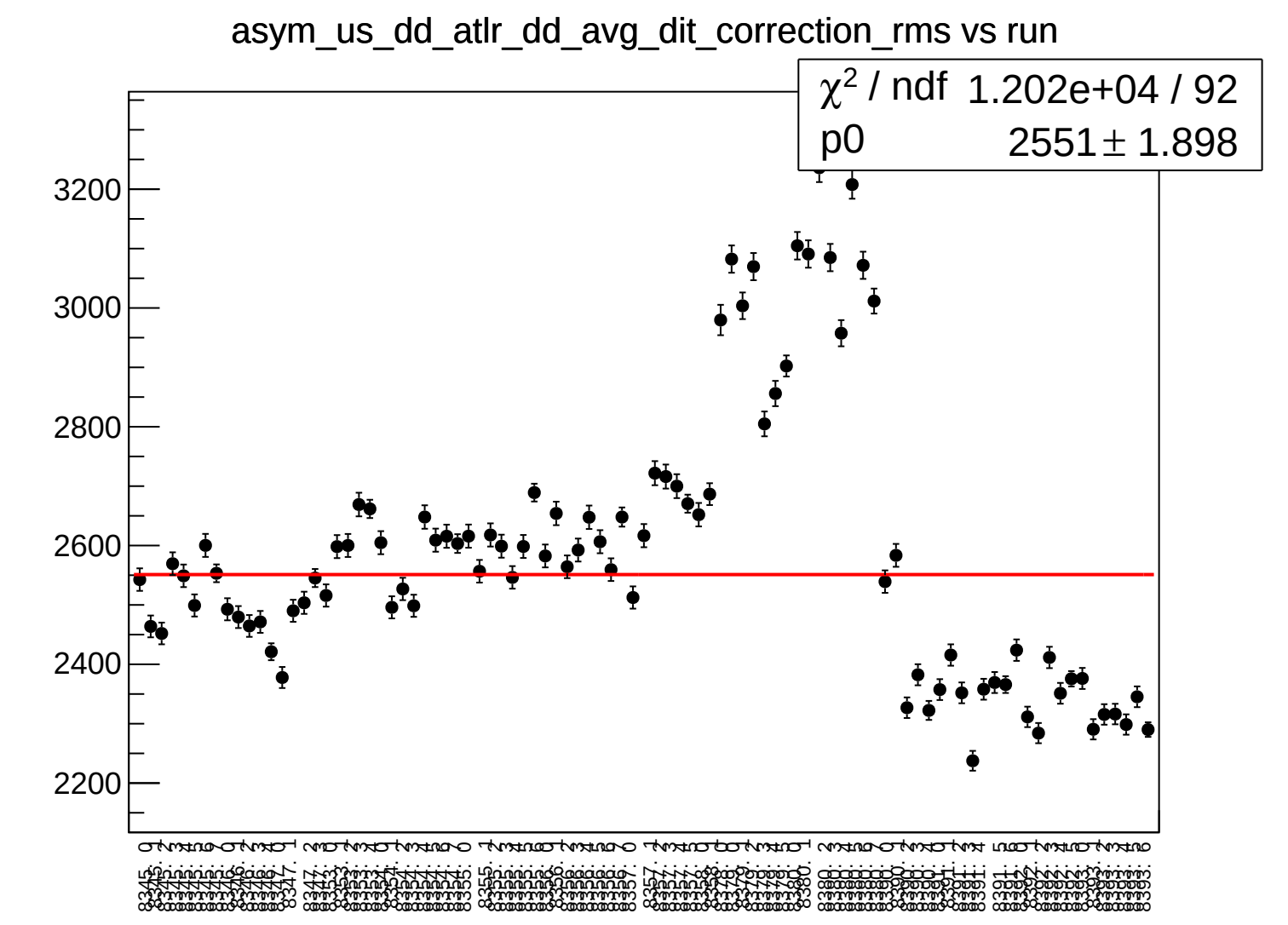

dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 84.85 / 92
p0 −2294 ± 1887
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 93.64
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

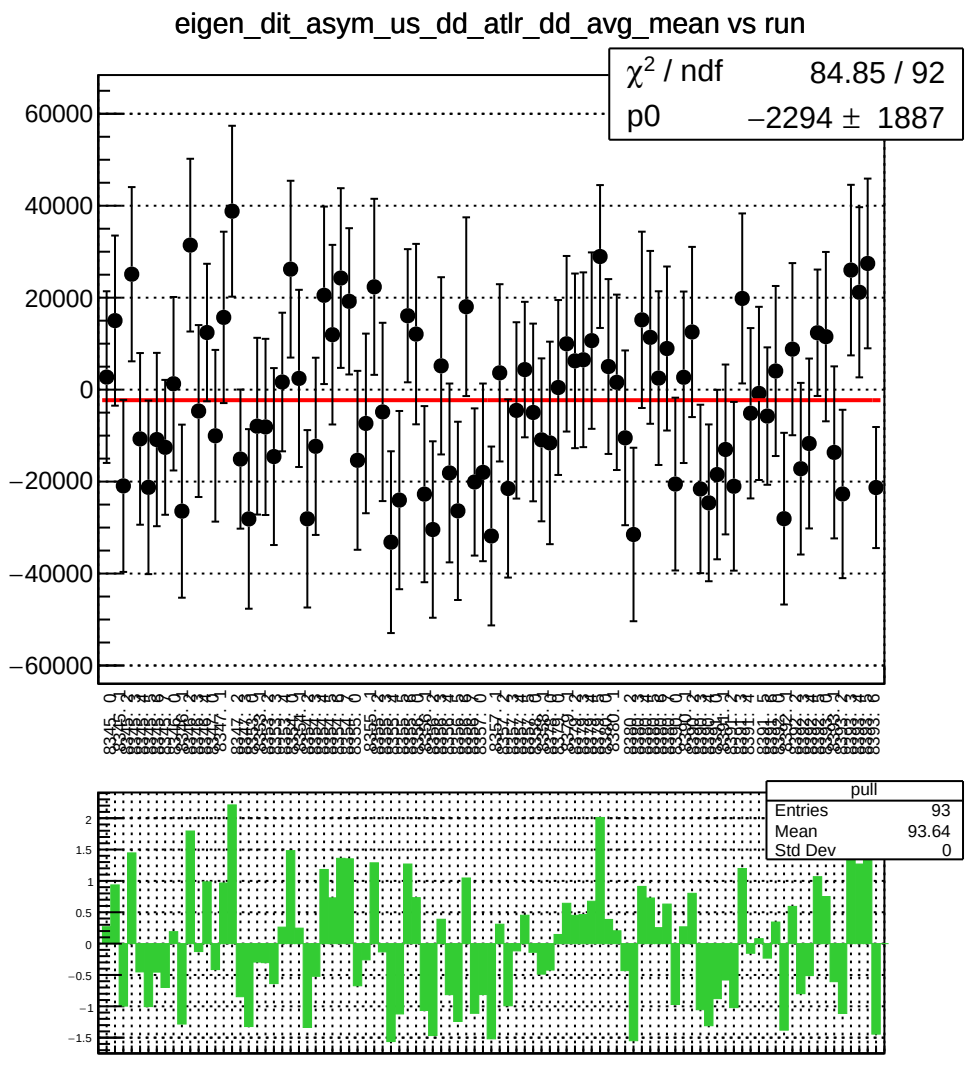

pull1D
Entries 93
Mean −0.008085
Std Dev 0.9551
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

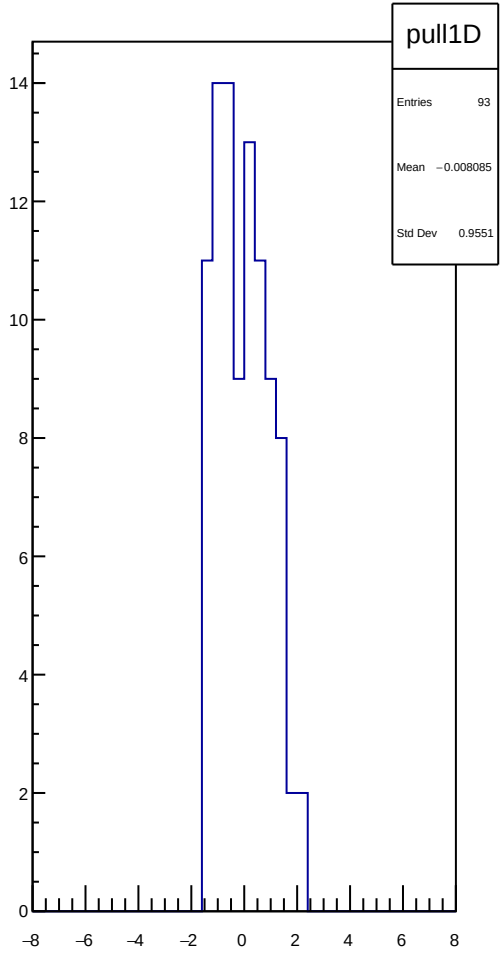

dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 714 / 92
p0 1799 ± 1.334
1900
1880
1860
1840
1820
1800
1780
1760
1740
1720

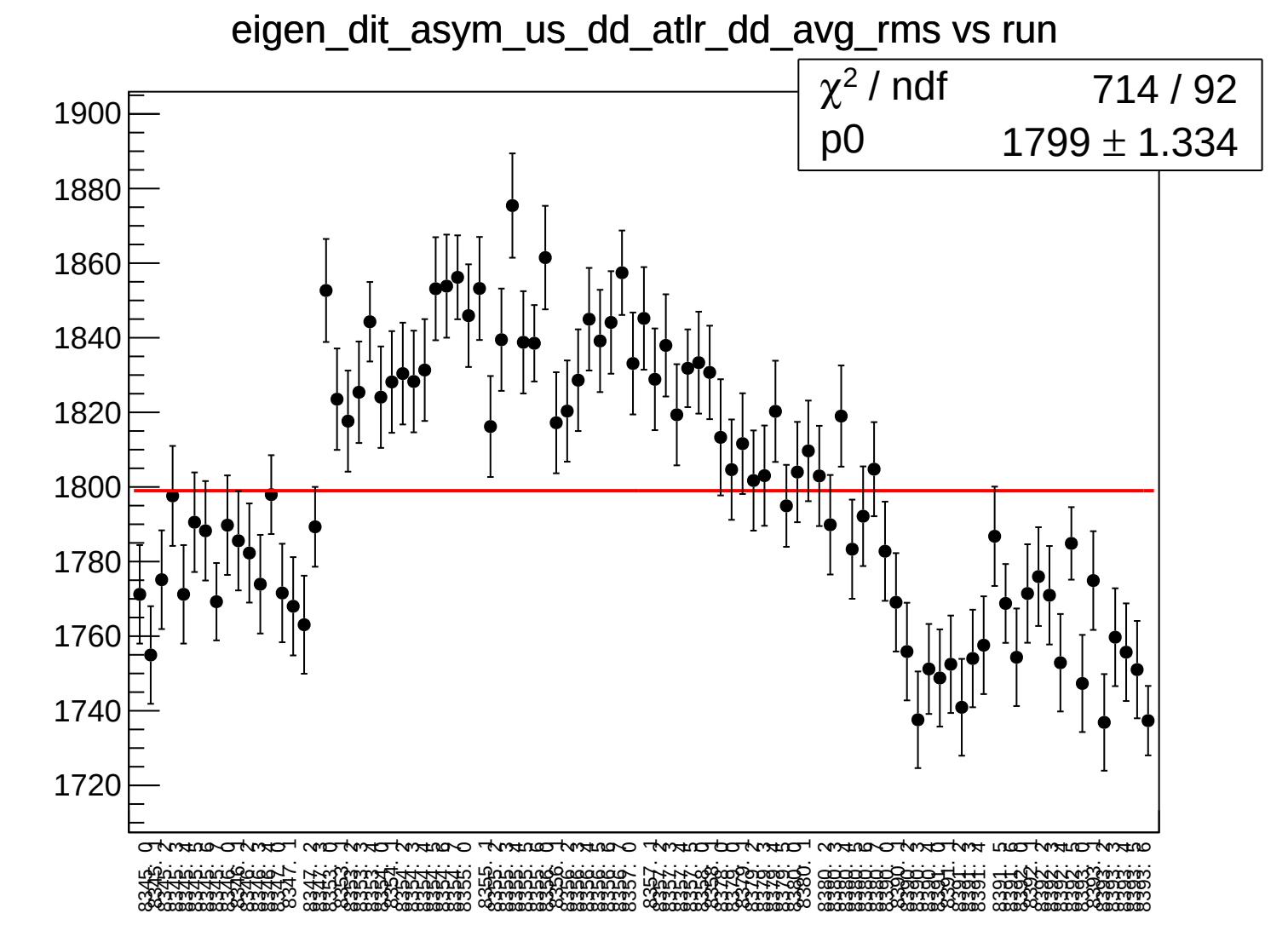

asym_us_dd_atlr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 108.6 / 92
p0 −7755 ± 2684
100
50
0
−50
−100
pull
Entries 93
Mean −247.1
Std Dev 0
2
1
0
−1
−2
−3

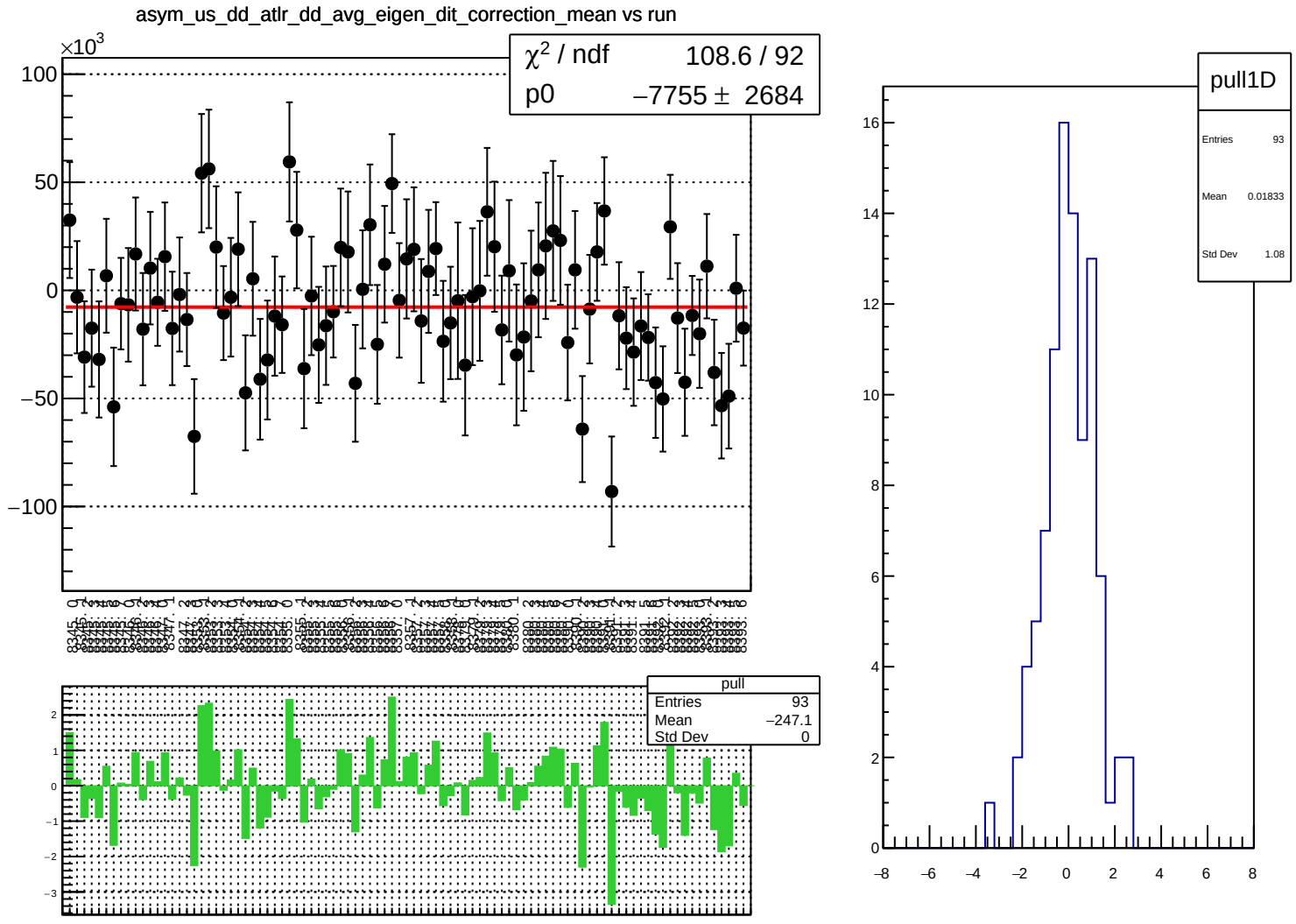

pull1D
Entries 93
Mean 0.01833
Std Dev 1.08
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

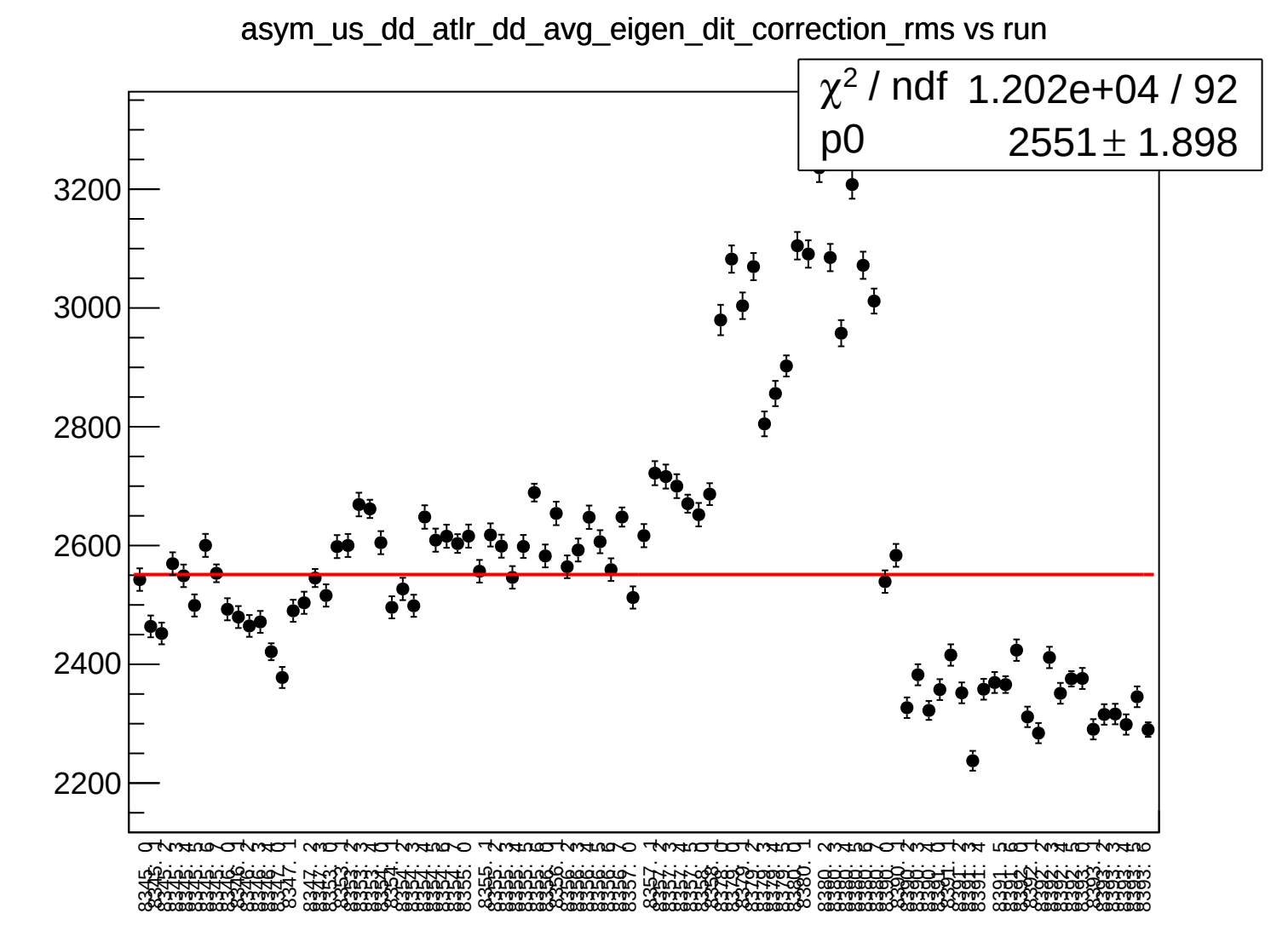

asym_us_dd_atlr_dd_avg_dit_correction_rms vs run
χ² / ndf 1.202e+04 / 92
p0 2551 ± 1.898
3200
3000
2800
2600
2400
2200

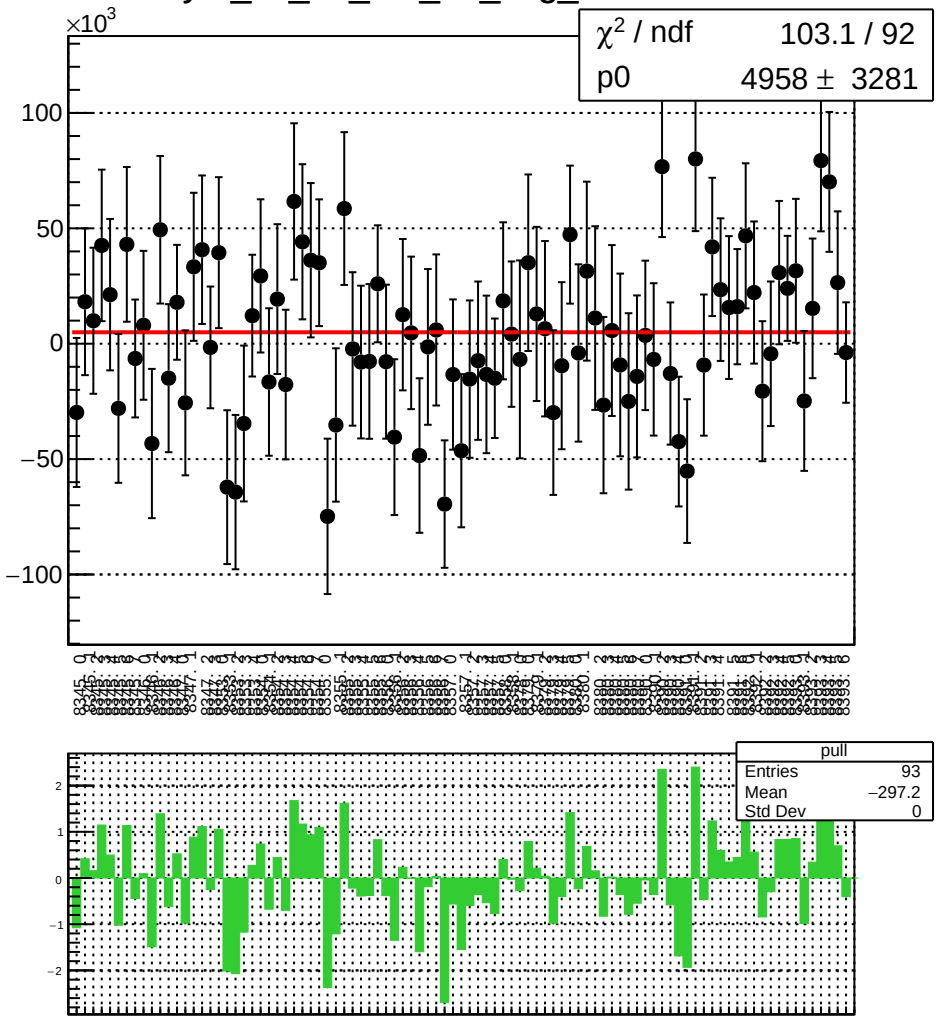

eigen_dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 84.85 / 92
p0 −2294 ± 1887
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 93.64
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

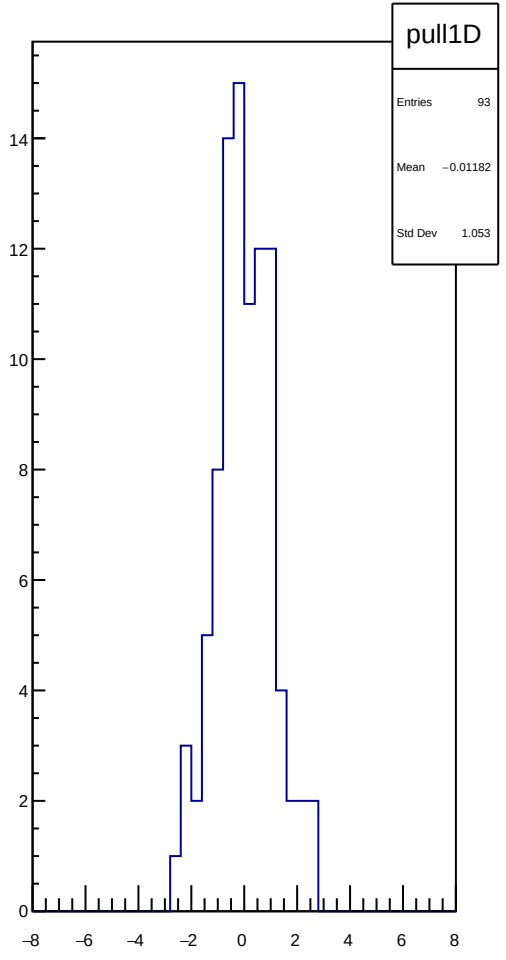

pull1D
Entries 93
Mean −0.008085
Std Dev 0.9551
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

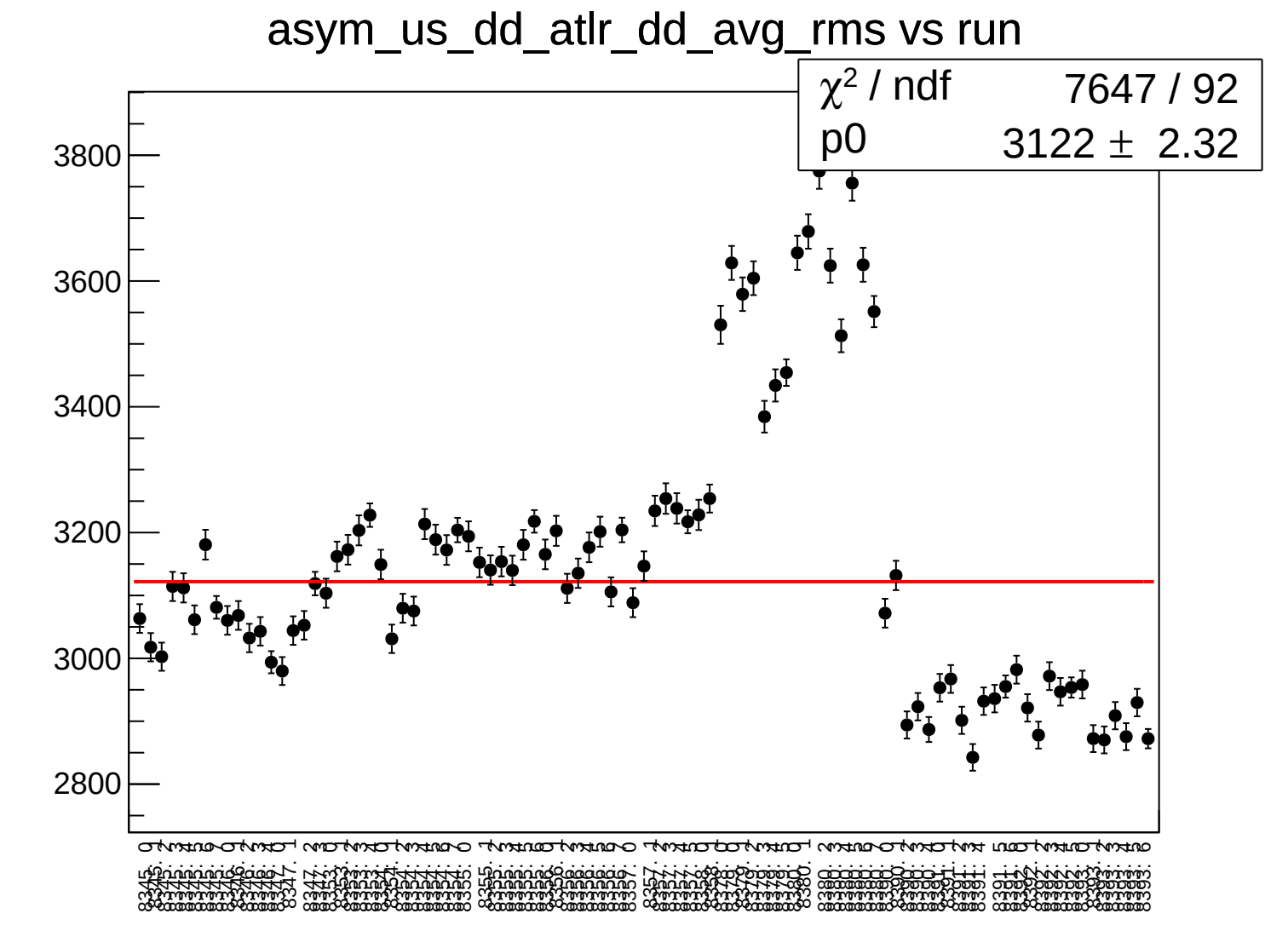

eigen_dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 714 / 92
p0 1799 ± 1.334
1900
1880
1860
1840
1820
1800
1780
1760
1740
1720

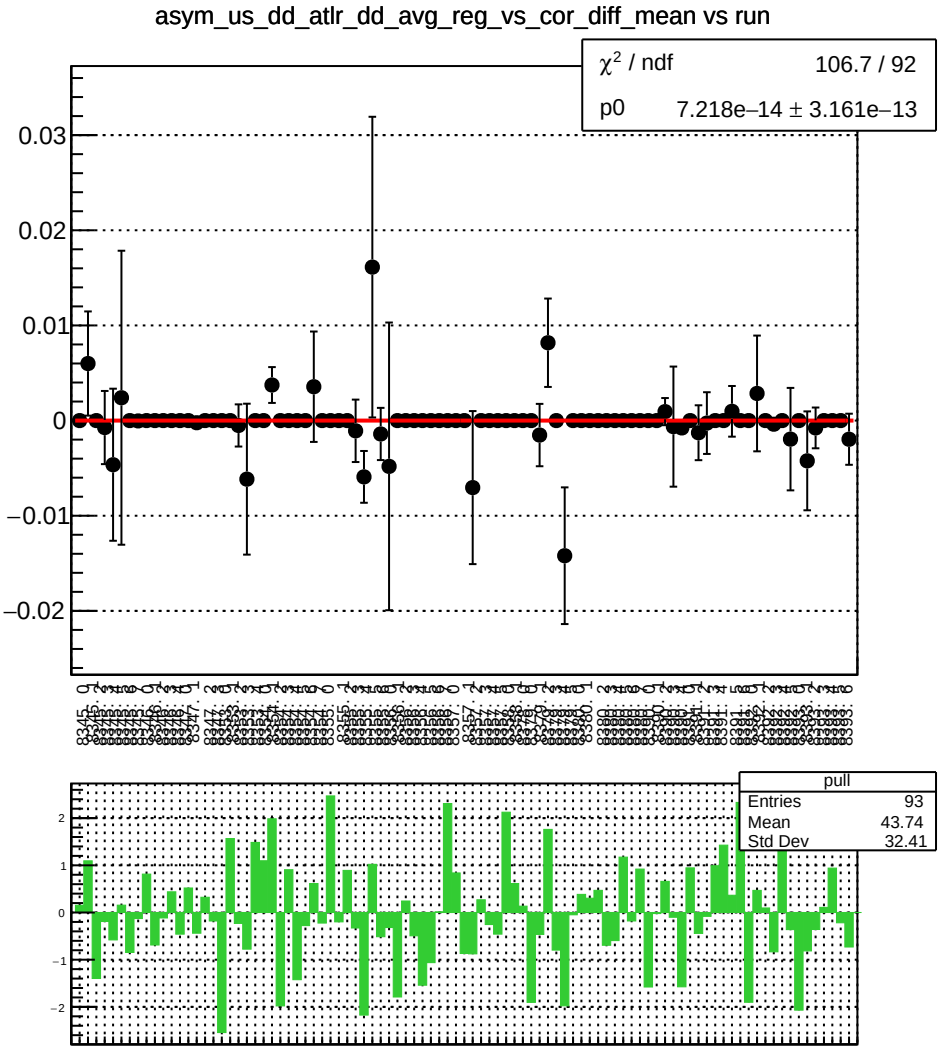

asym_us_dd_atlr_dd_avg_eigen_dit_correction_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 108.6 / 92
p0 −7755 ± 2684
pull
Entries 93
Mean −247.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.01833
Std Dev 1.08
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

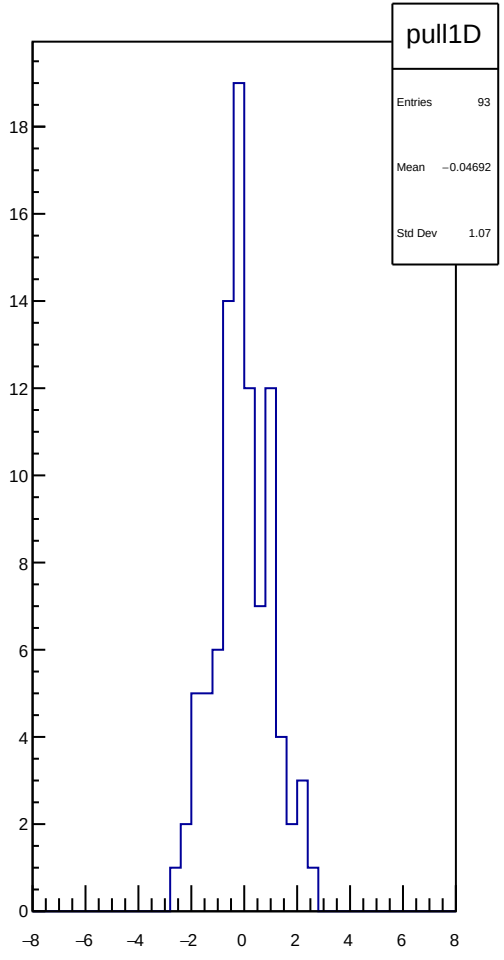

asym_us_dd_atlr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.202e+04 / 92
p0 2551 ± 1.898
3200
3000
2800
2600
2400
2200

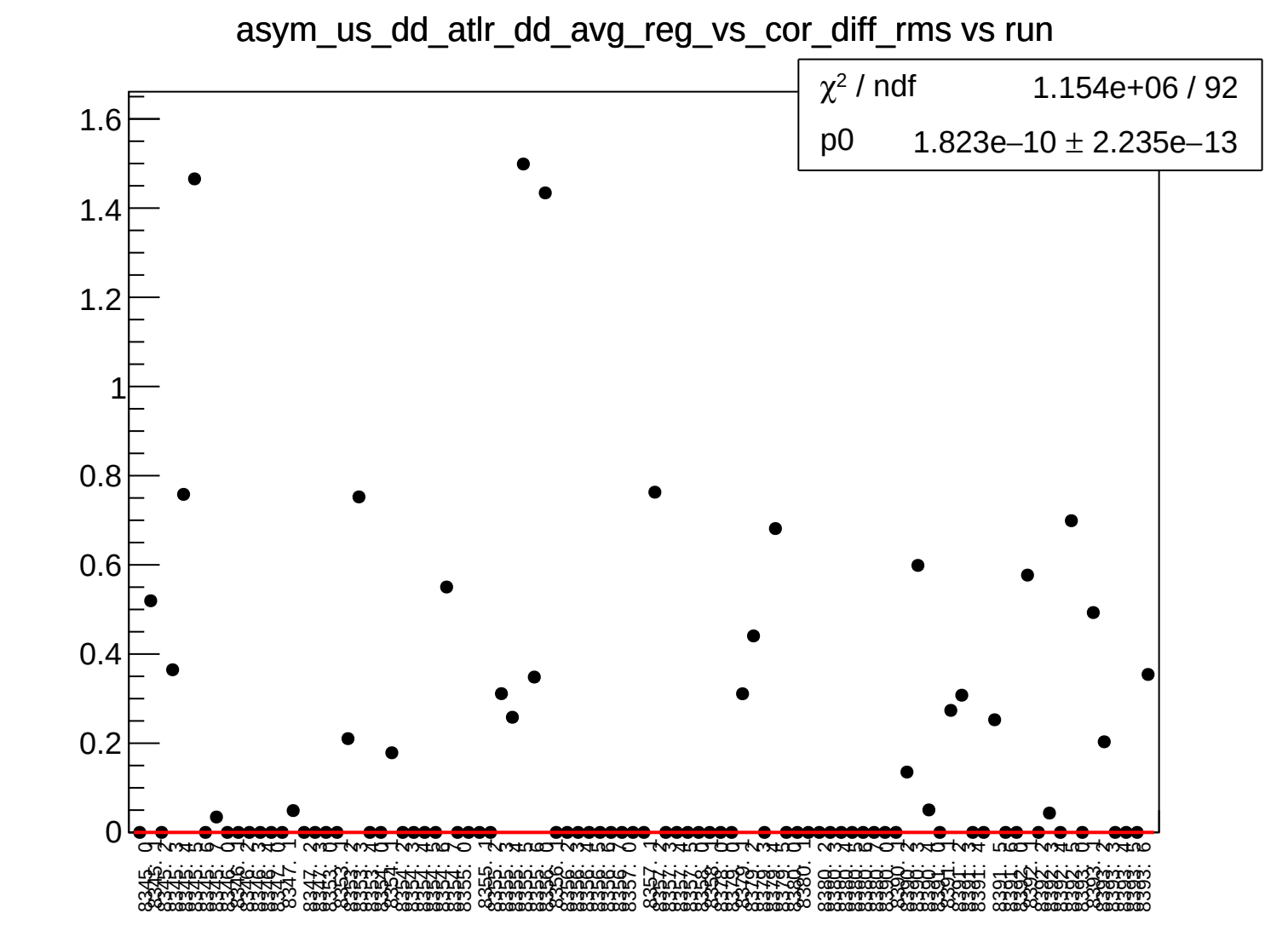

asym_us_dd_atlr_dd_avg_mean vs run
×10^3
χ^2 / ndf 103.1 / 92
p0 4958 ± 3281
100
50
0
−50
−100
pull
Entries 93
Mean −297.2
Std Dev 0
2
1
0
−1
−2

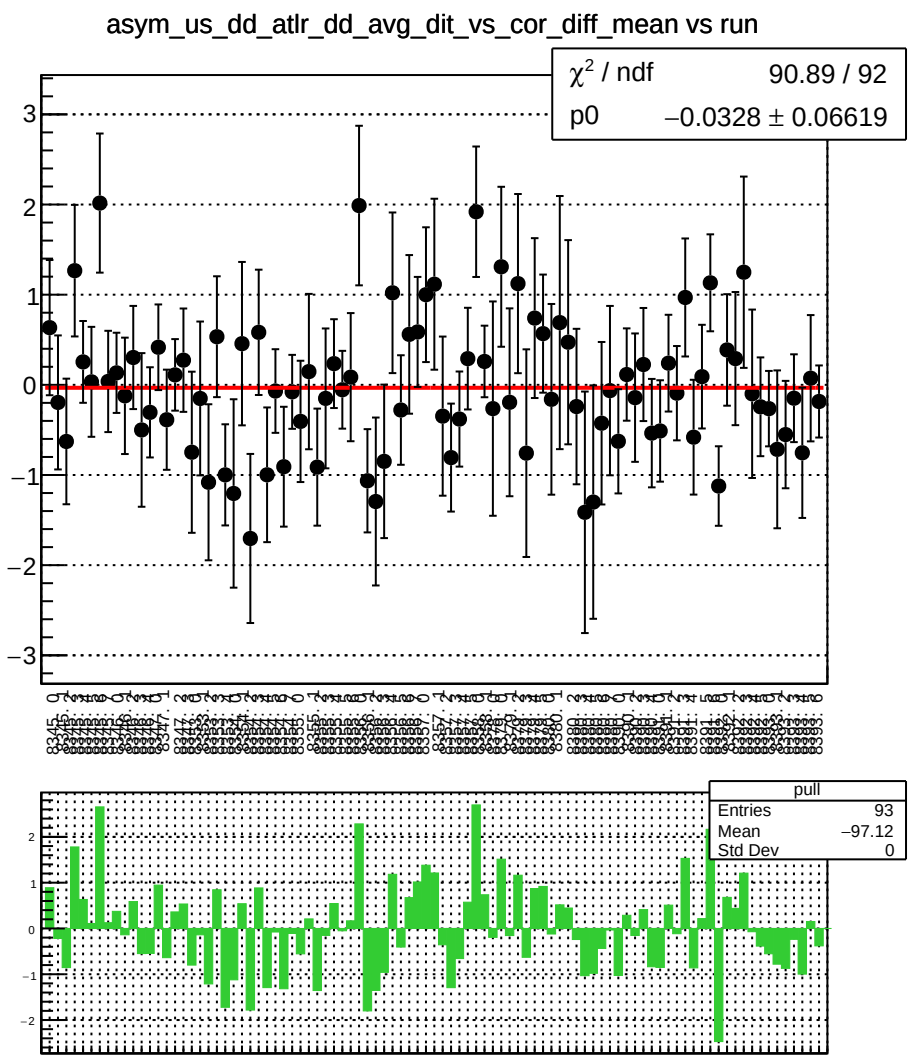

pull1D
Entries 93
Mean −0.01182
Std Dev 1.053
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

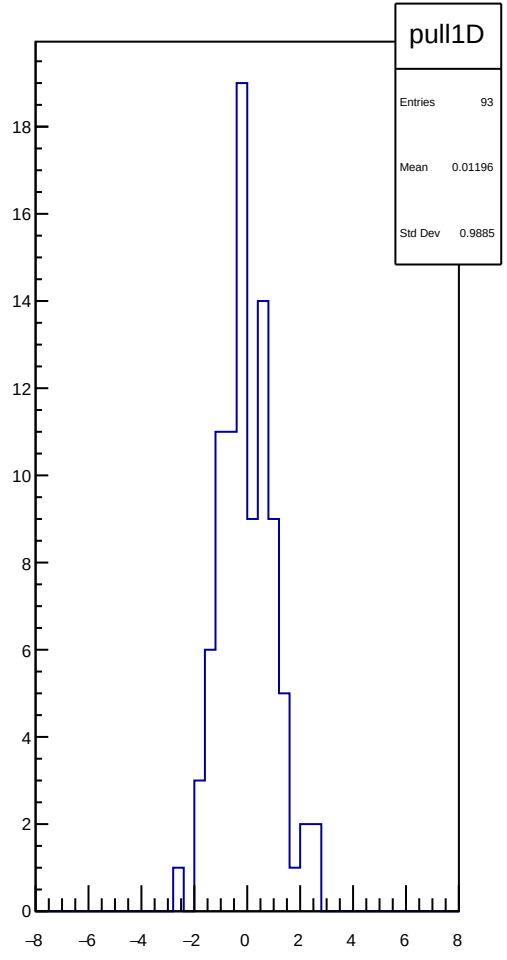

asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 7647 / 92
p0 3122 ± 2.32
3800
3600
3400
3200
3000
2800

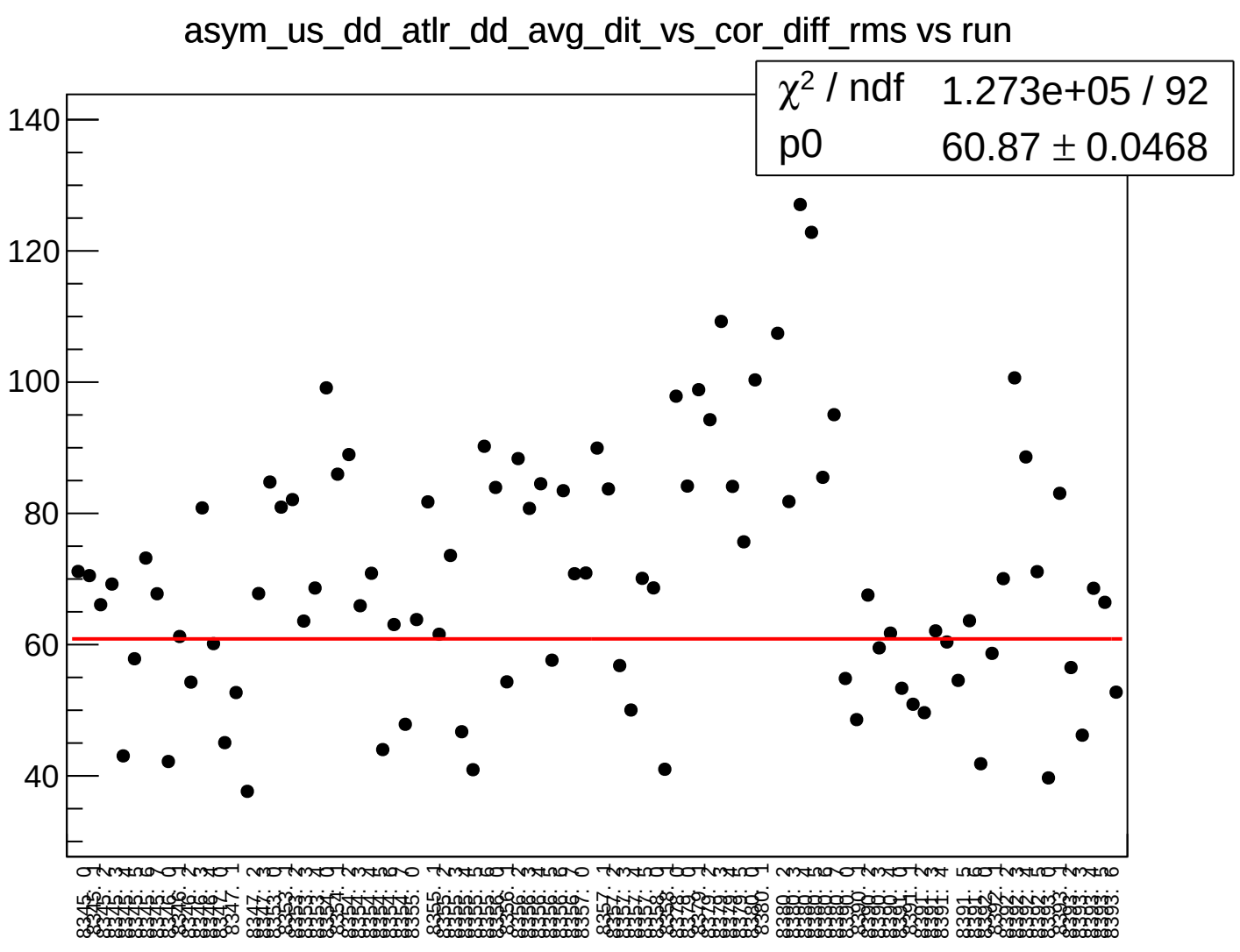

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 106.7 / 92
p0 7.218e−14 ± 3.161e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 93
Mean 43.74
Std Dev 32.41
2
1
0
−1
−2

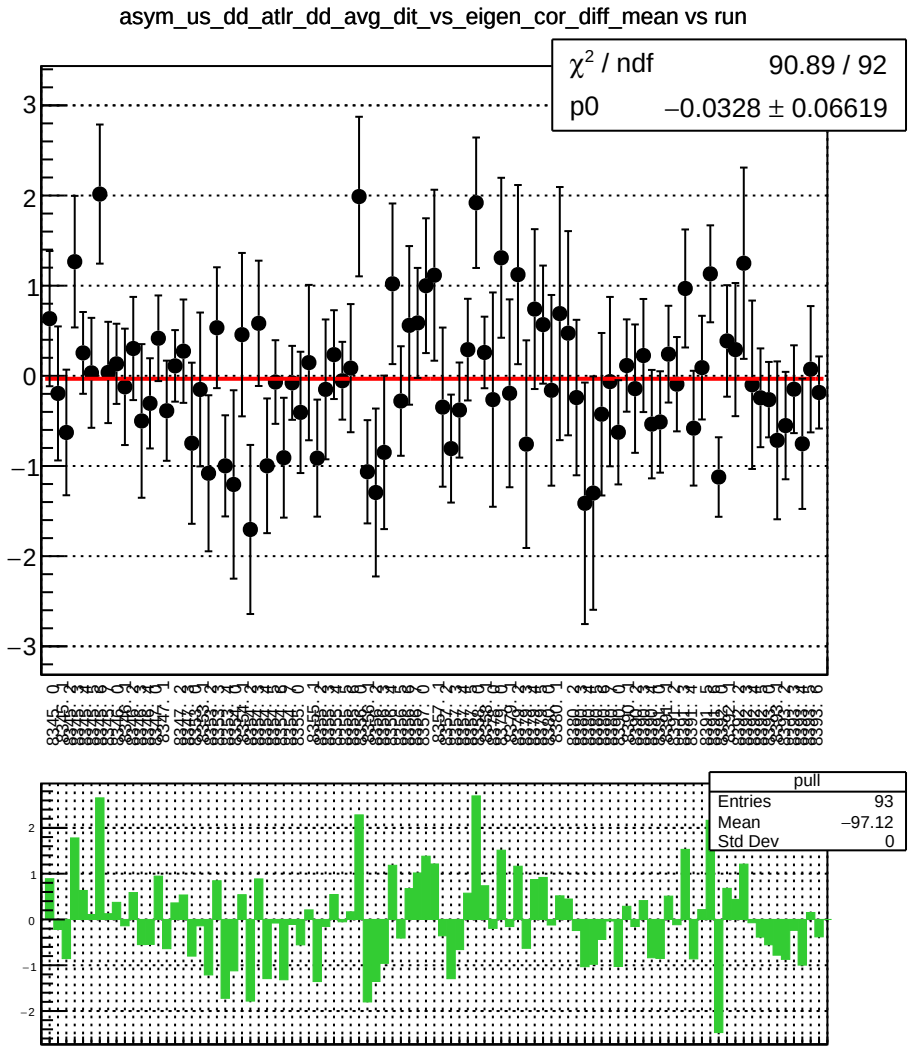

pull1D
Entries 93
Mean −0.04692
Std Dev 1.07
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

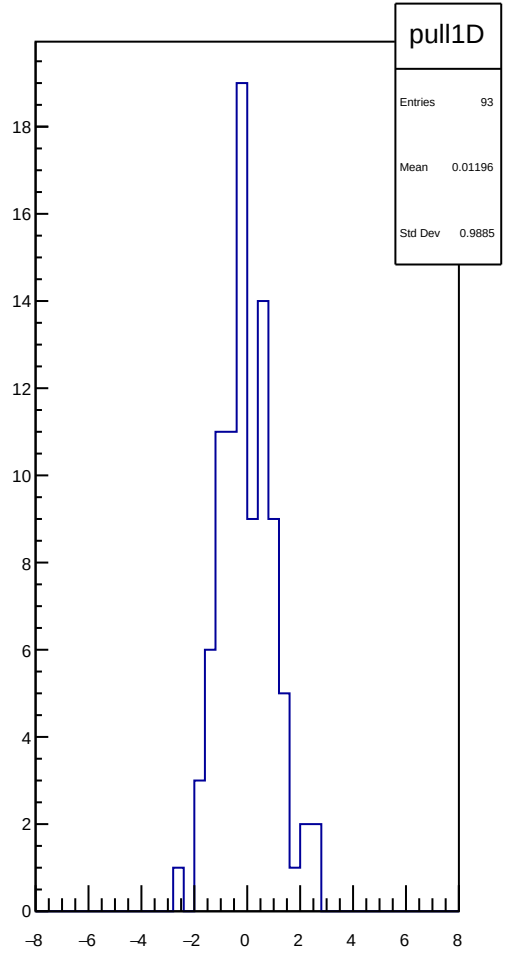

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.154e+06 / 92
p0 1.823e−10 ± 2.235e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

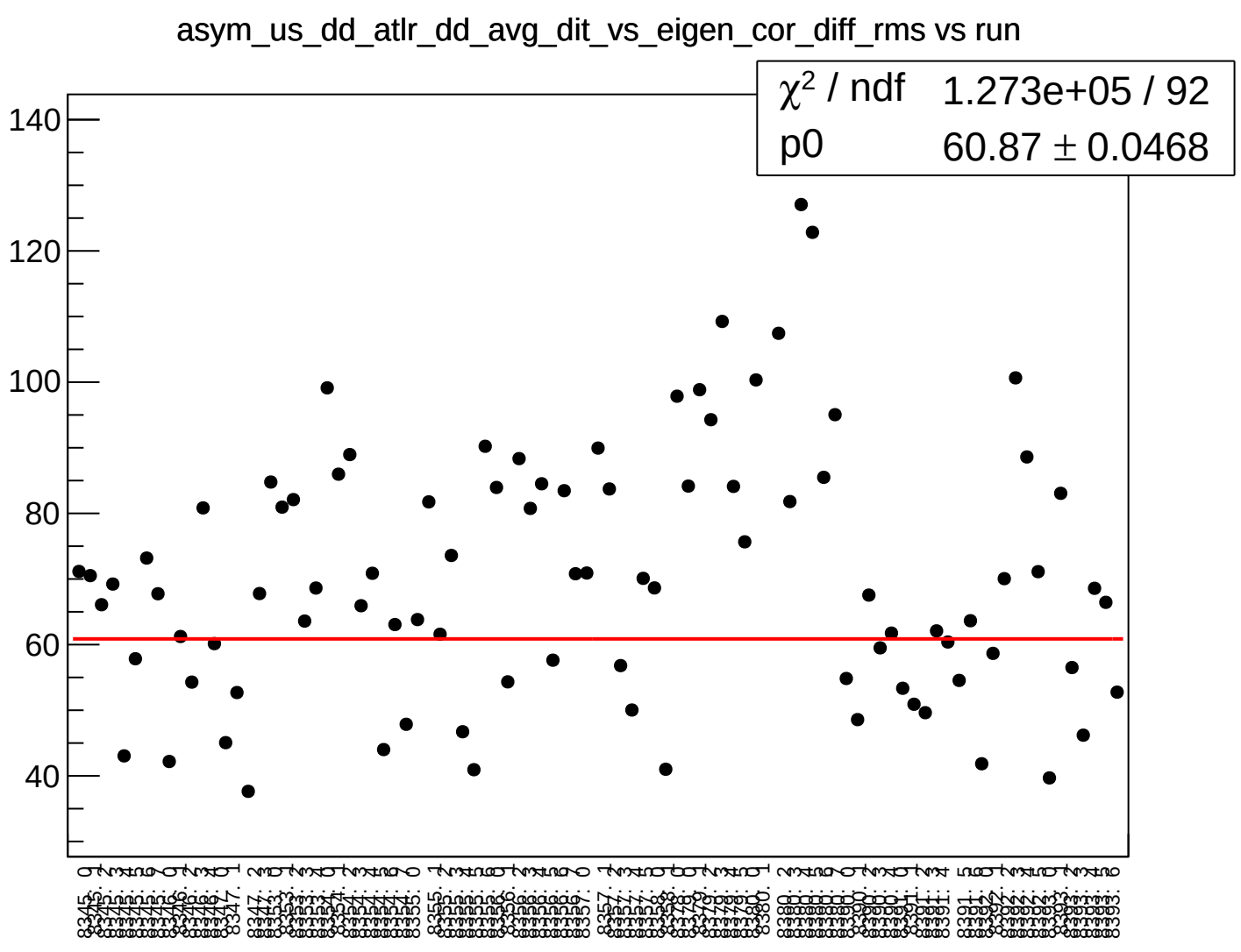

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 90.89 / 92
p0 −0.0328 ± 0.06619
pull
Entries 93
Mean −97.12
Std Dev 0

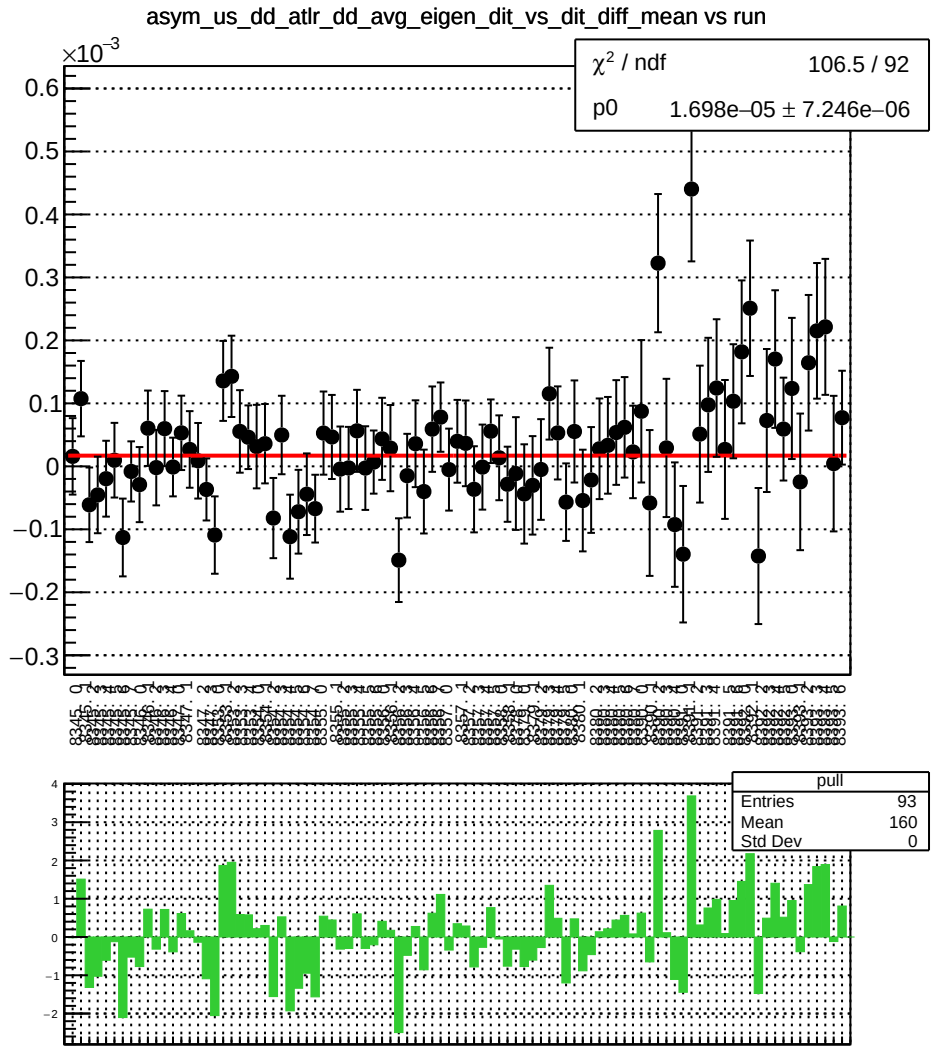

pull1D
Entries 93
Mean 0.01196
Std Dev 0.9885

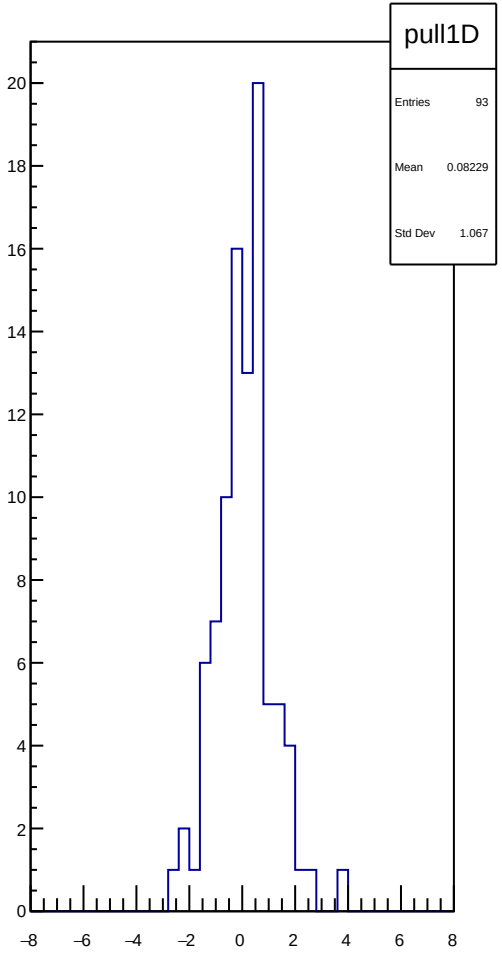

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.273e+05 / 92
p0 60.87 ± 0.0468
140
120
100
80
60
40

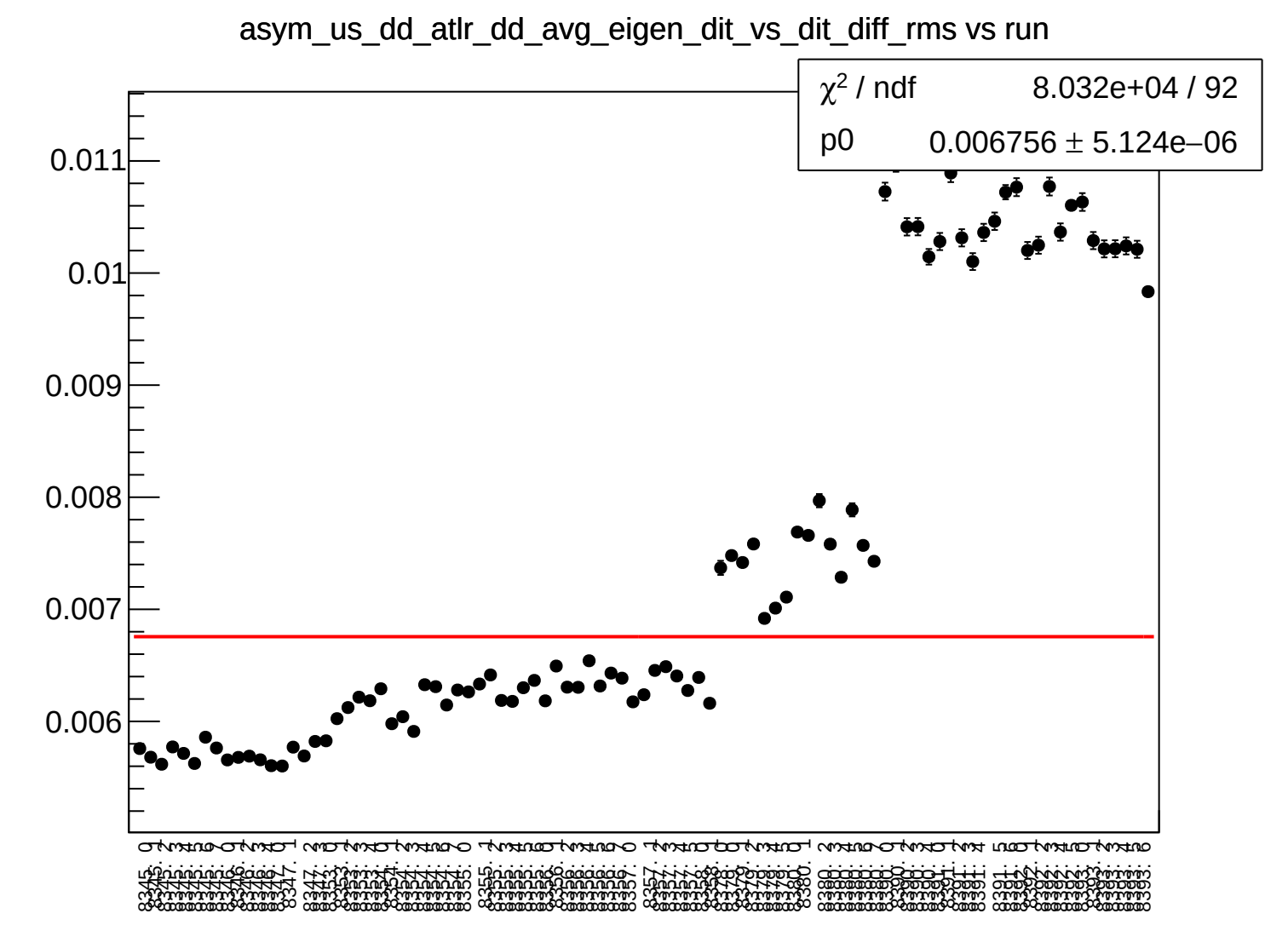

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.89 / 92
p0 −0.0328 ± 0.06619
pull
Entries 93
Mean −97.12
Std Dev 0

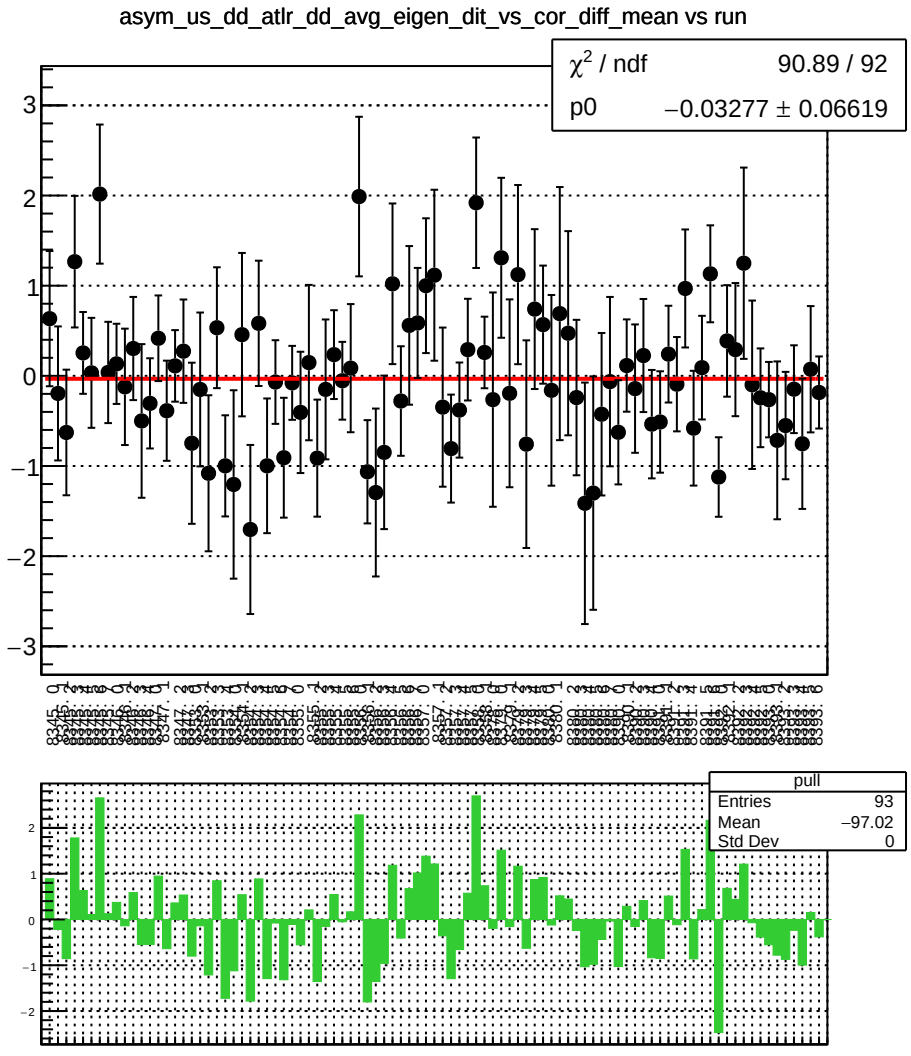

pull1D
Entries 93
Mean 0.01196
Std Dev 0.9885

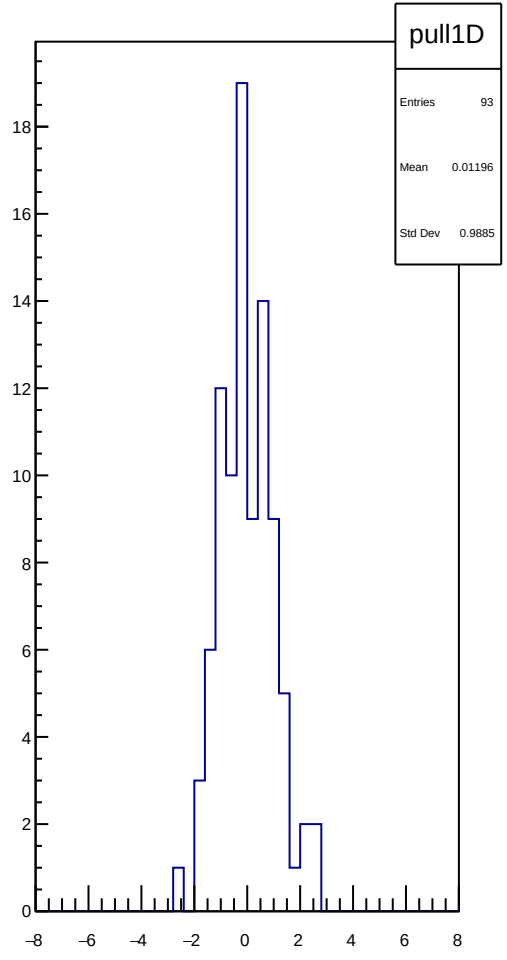

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.273e+05 / 92
p0 60.87 ± 0.0468
140
120
100
80
60
40

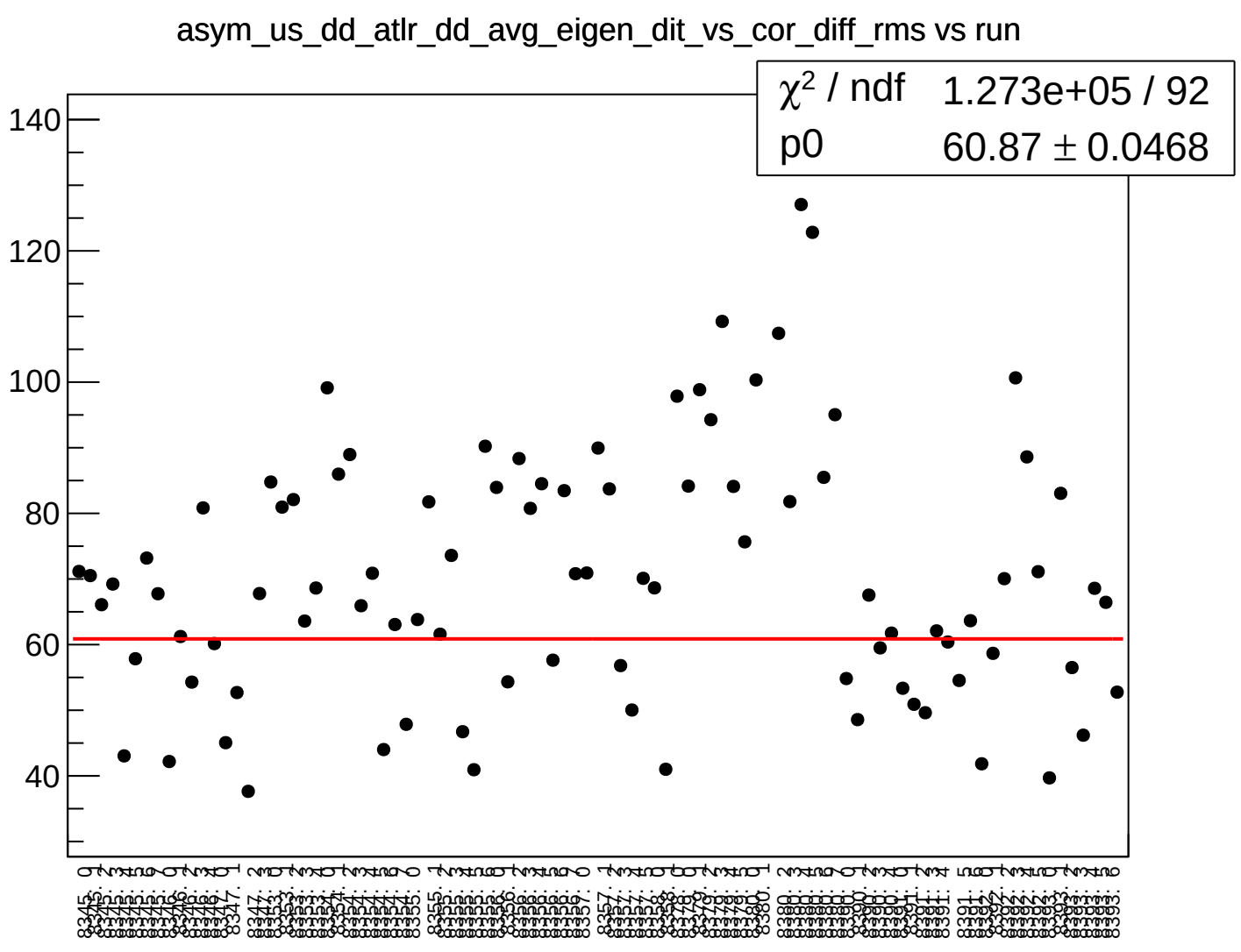

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 106.5 / 92
p0 1.698e−05 ± 7.246e−06
pull
Entries 93
Mean 160
Std Dev 0

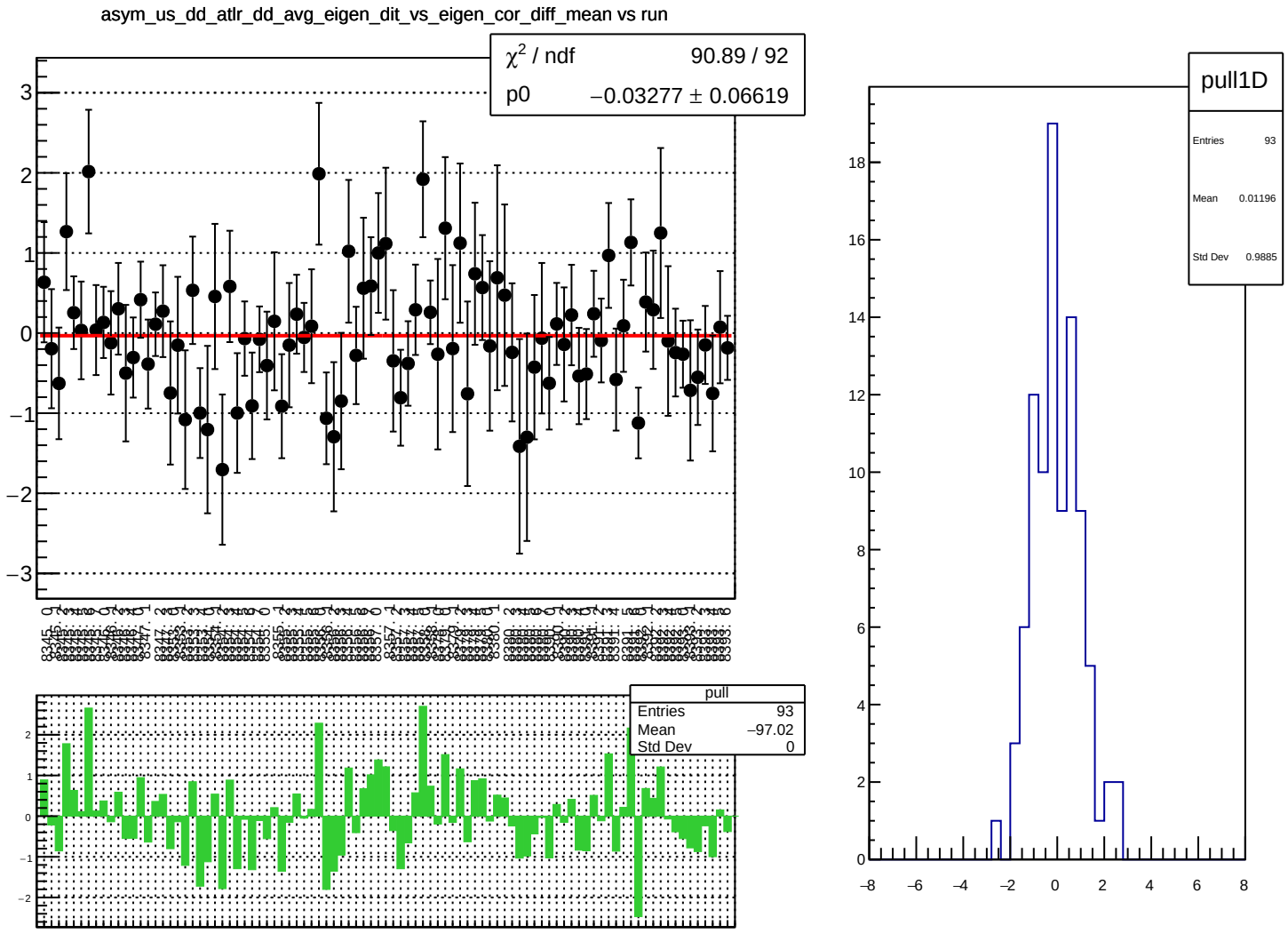

pull1D
Entries 93
Mean 0.08229
Std Dev 1.067

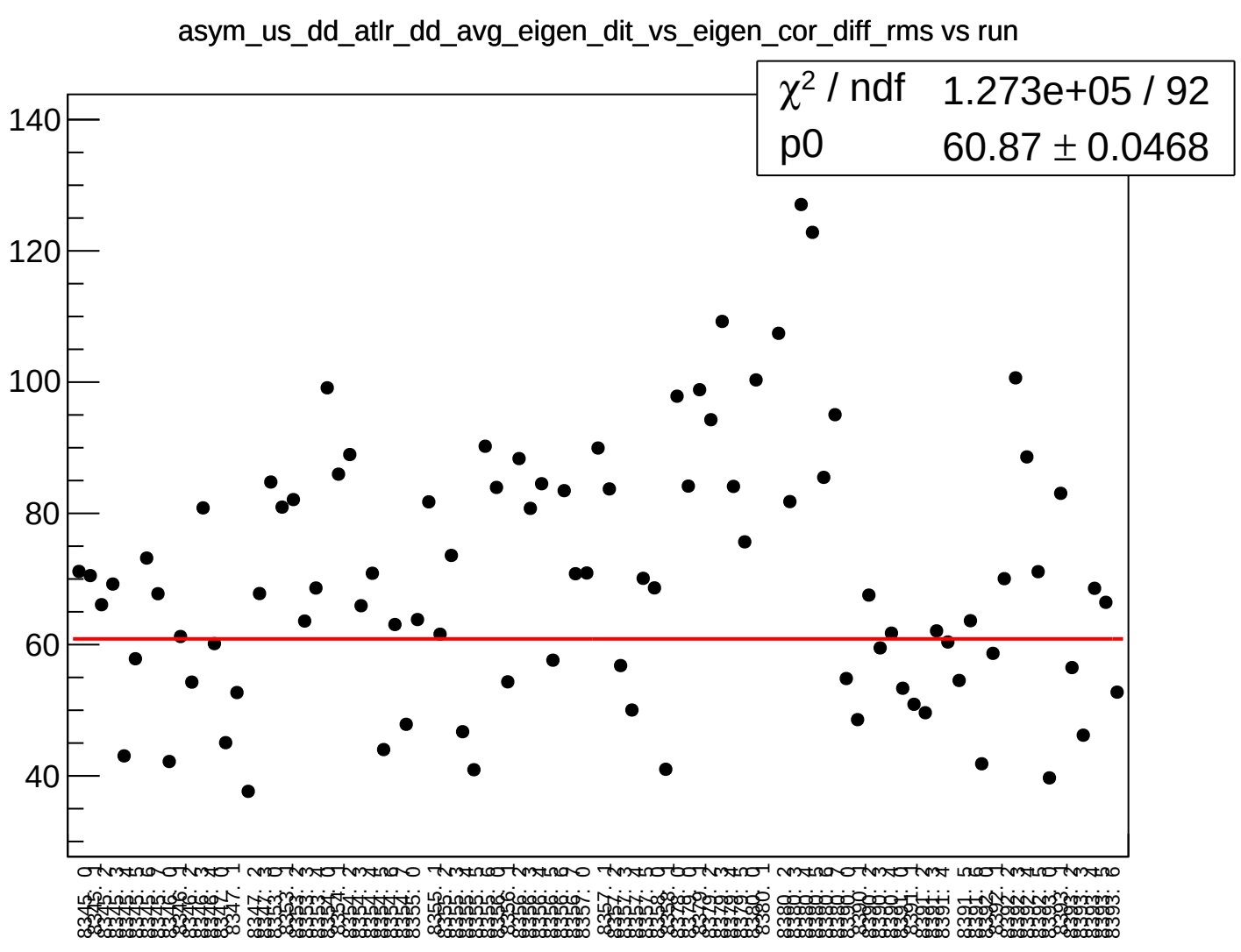

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.032e+04 / 92
p0 0.006756 ± 5.124e−06
0.011
0.01
0.009
0.008
0.007
0.006

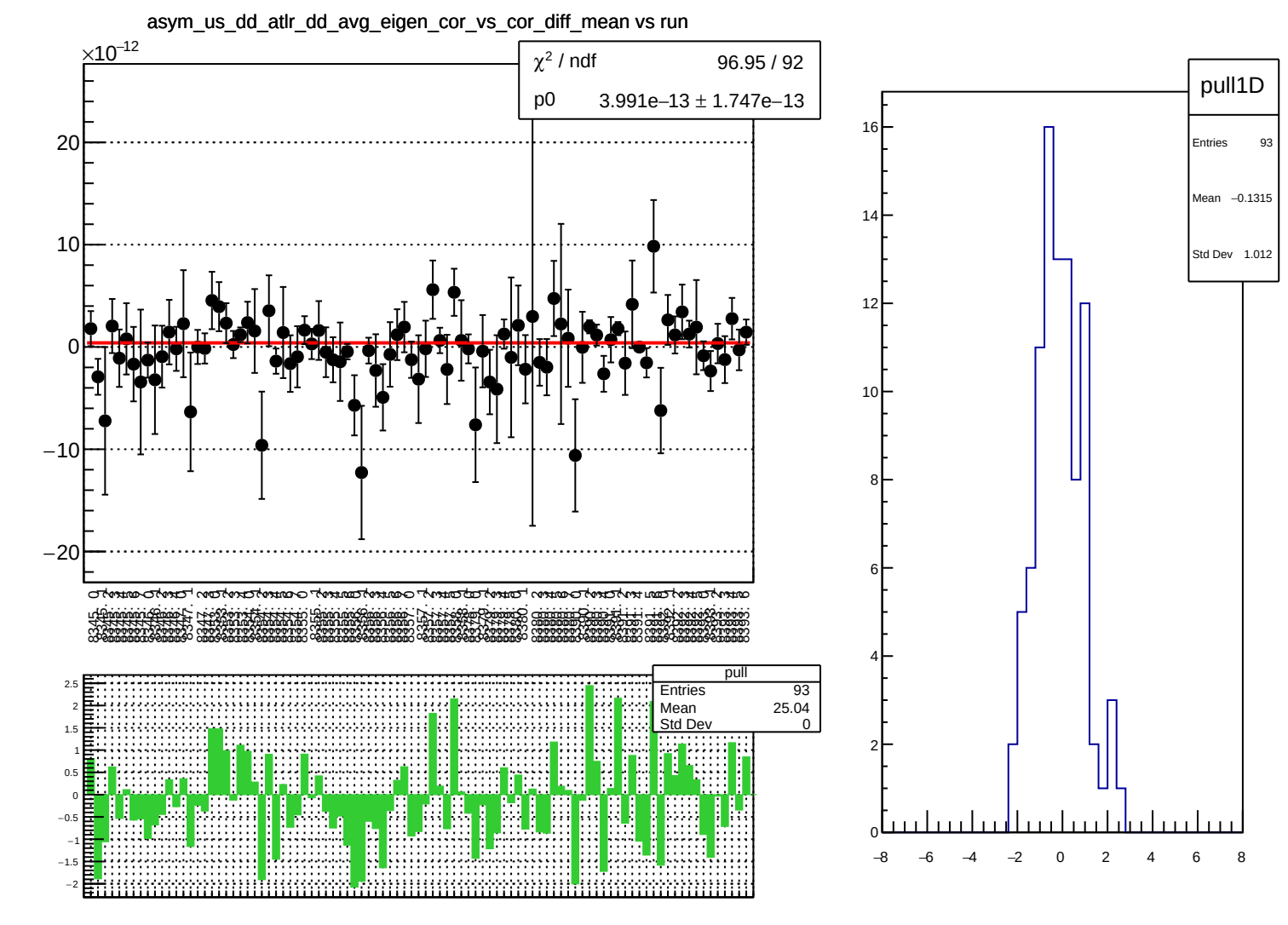

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.89 / 92
p0 −0.03277 ± 0.06619
pull
Entries 93
Mean −97.02
Std Dev 0

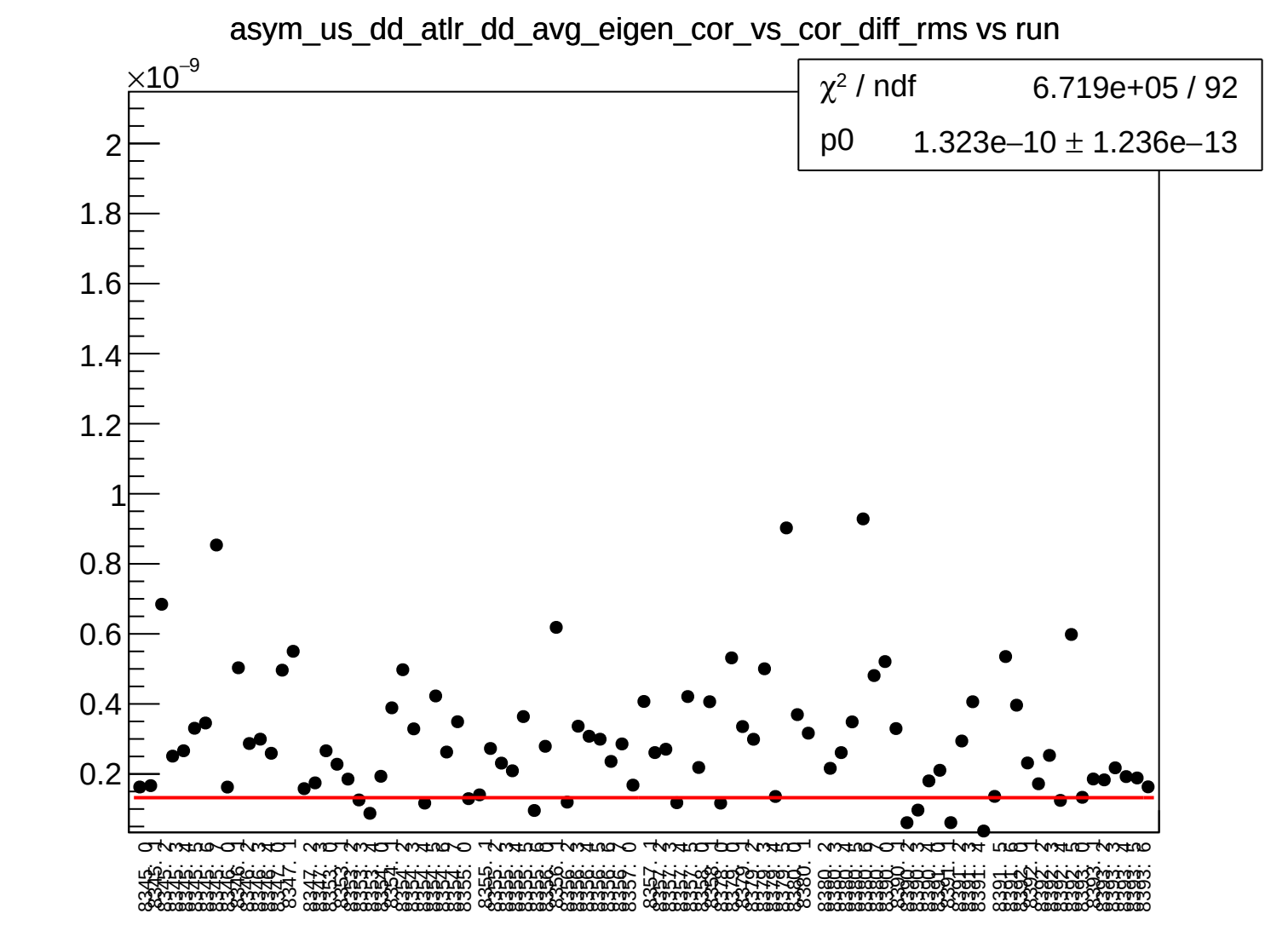

pull1D
Entries 93
Mean 0.01196
Std Dev 0.9885

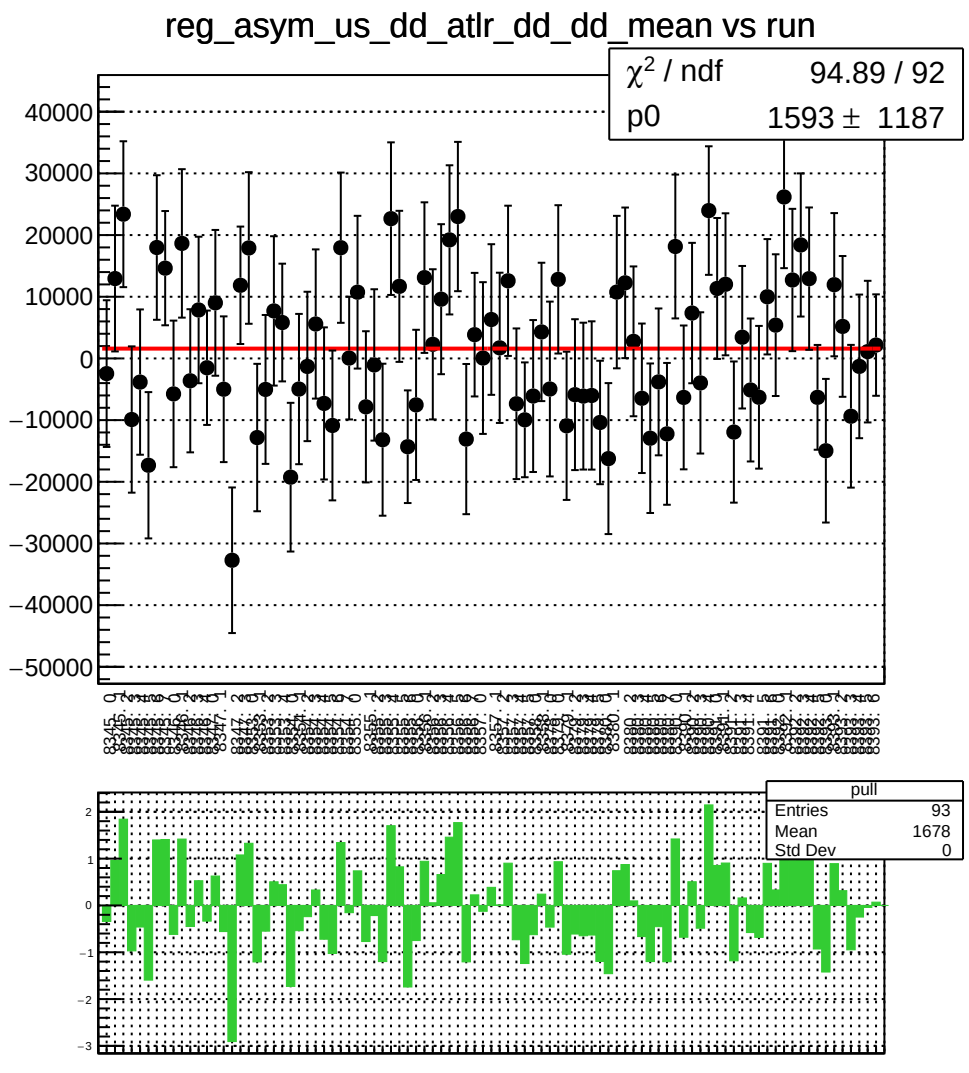

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.273e+05 / 92
p0 60.87 ± 0.0468
140
120
100
80
60
40

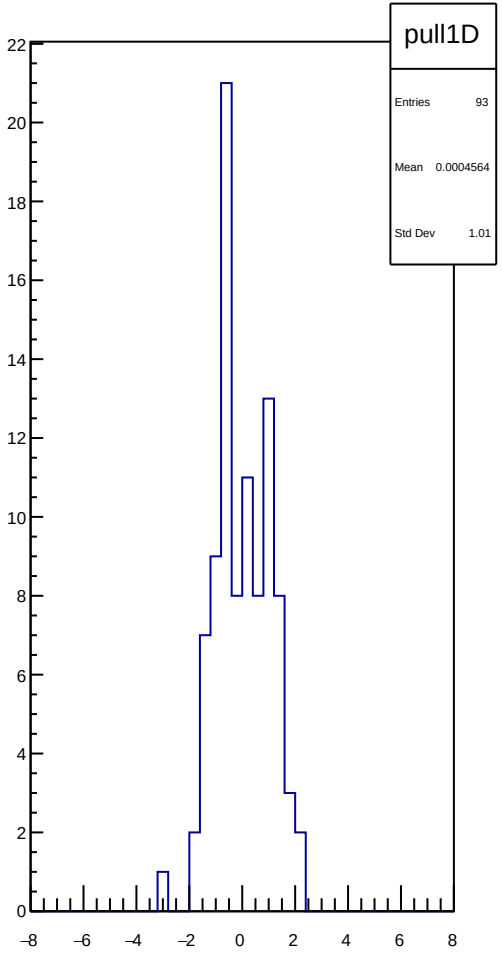

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.89 / 92
p0 −0.03277 ± 0.06619
pull
Entries 93
Mean −97.02
Std Dev 0
pull1D
Entries 93
Mean 0.01196
Std Dev 0.9885

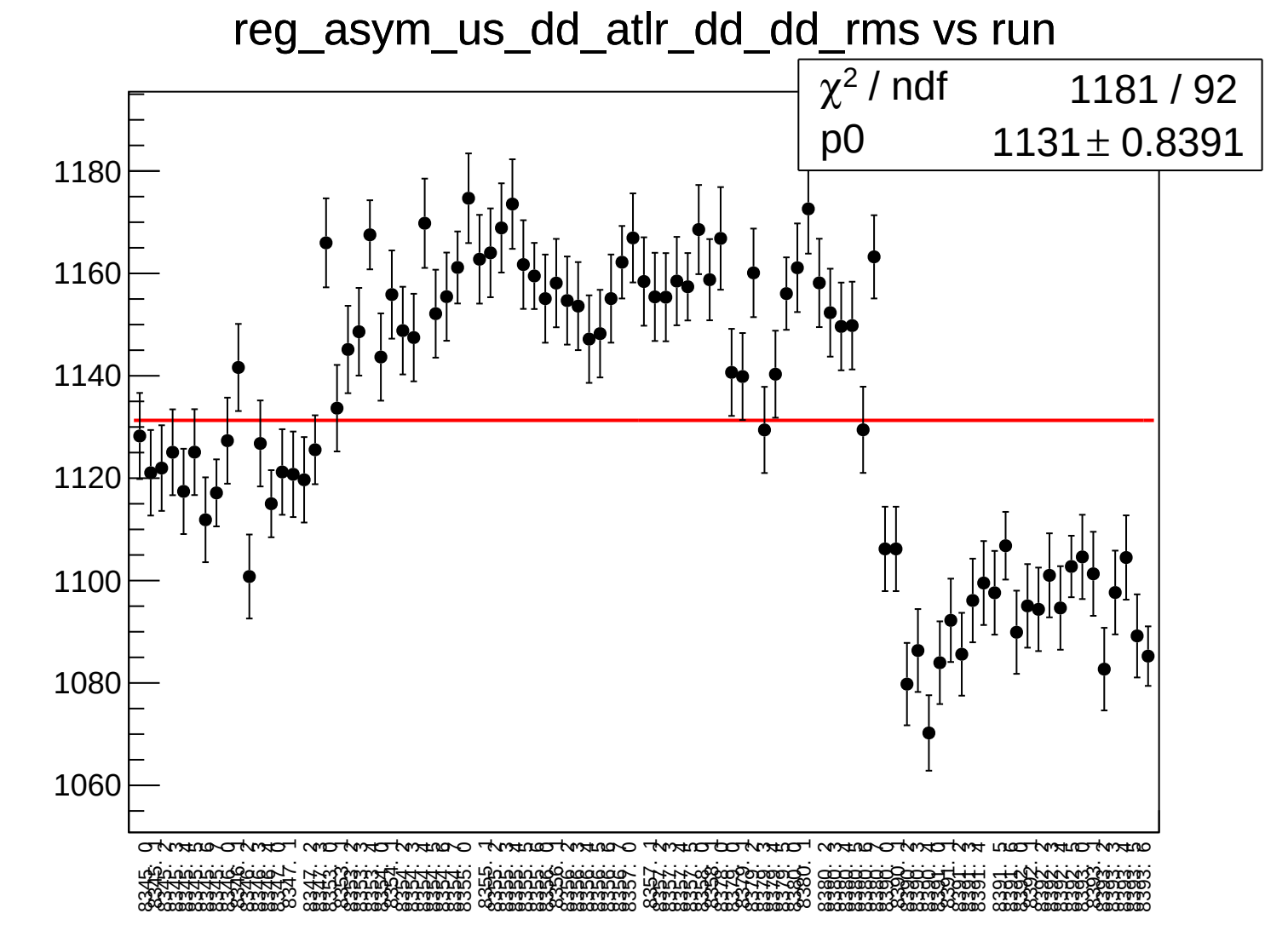

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.273e+05 / 92
p0 60.87 ± 0.0468
140
120
100
80
60
40

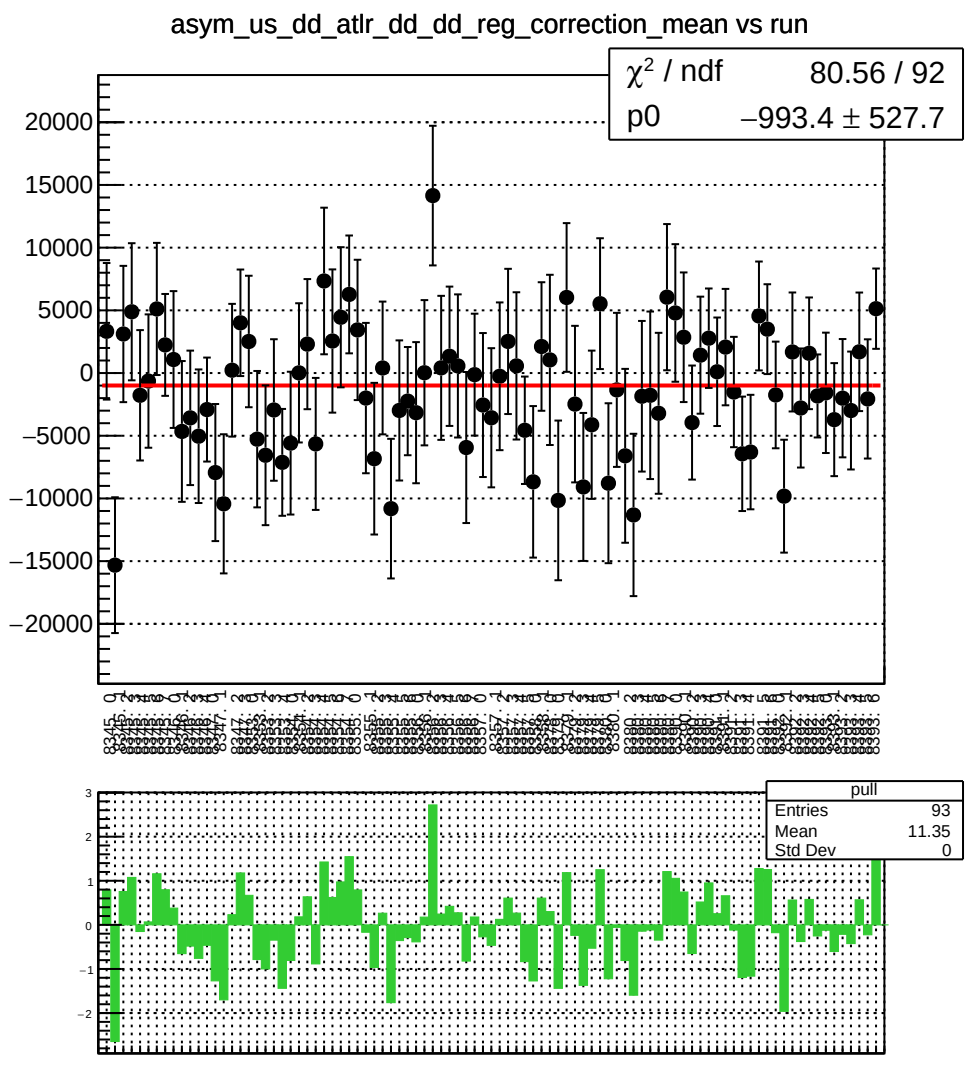

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.95 / 92
p0 3.991e−13 ± 1.747e−13
20
10
0
−10
−20
pull
Entries 93
Mean 25.04
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean −0.1315
Std Dev 1.012
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

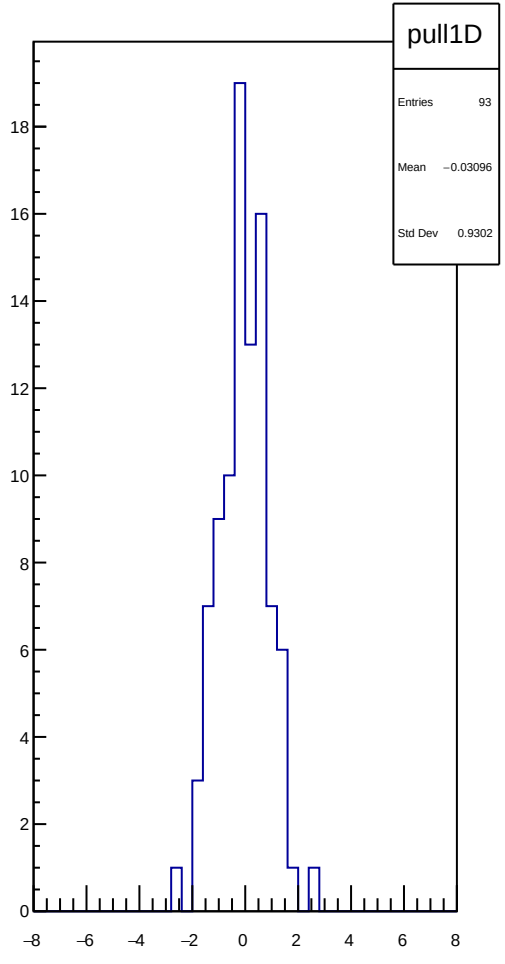

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.719e+05 / 92
p0 1.323e−10 ± 1.236e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

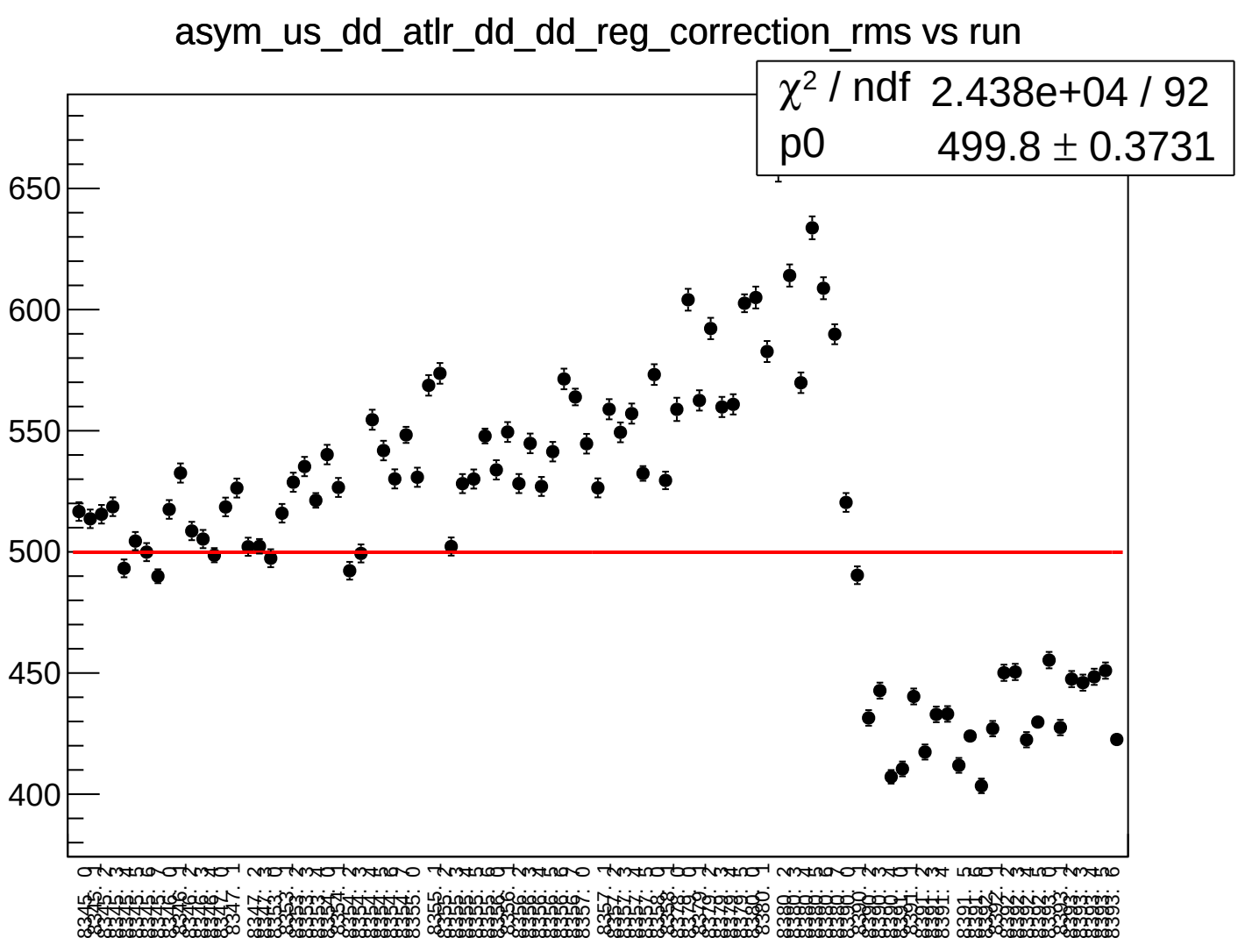

reg_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 94.89 / 92
p0 1593 ± 1187
pull
Entries 93
Mean 1678
Std Dev 0

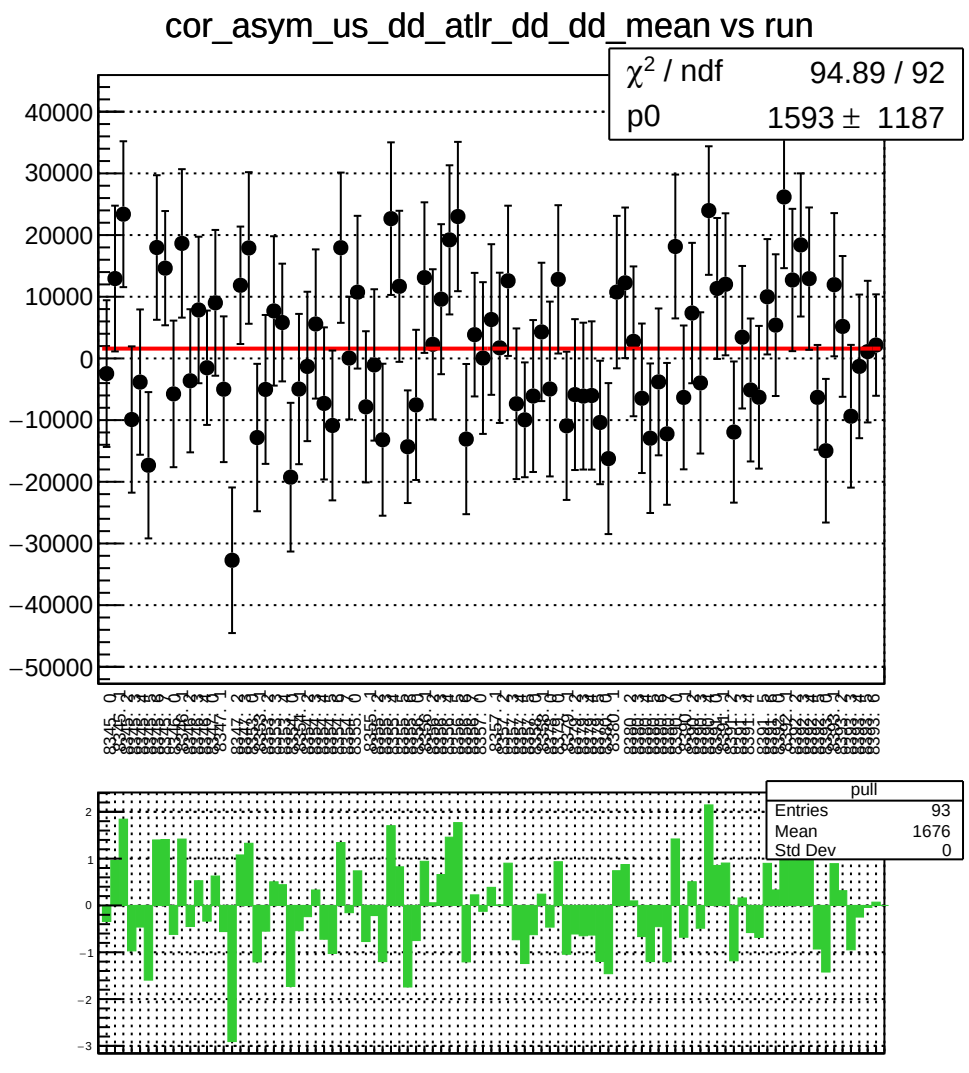

pull1D
Entries 93
Mean 0.0004564
Std Dev 1.01

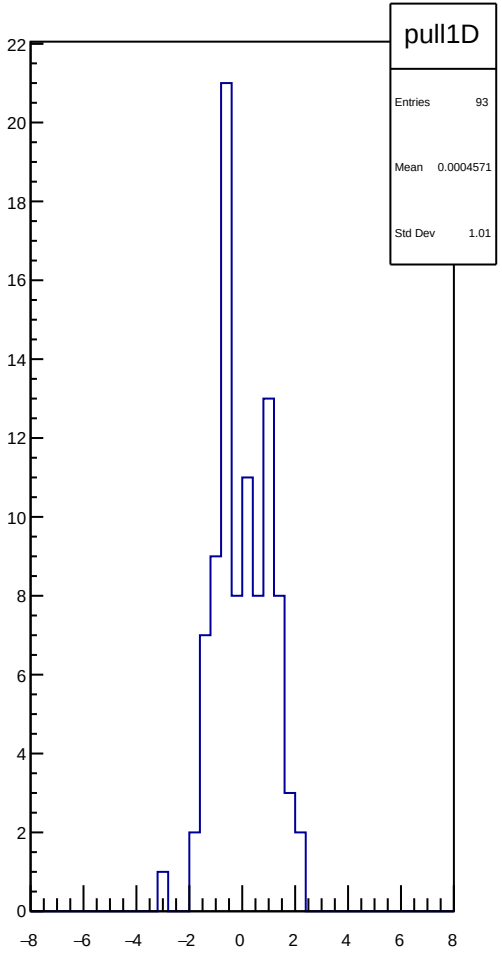

reg_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 1181 / 92
p0 1131 ± 0.8391
1180
1160
1140
1120
1100
1080
1060

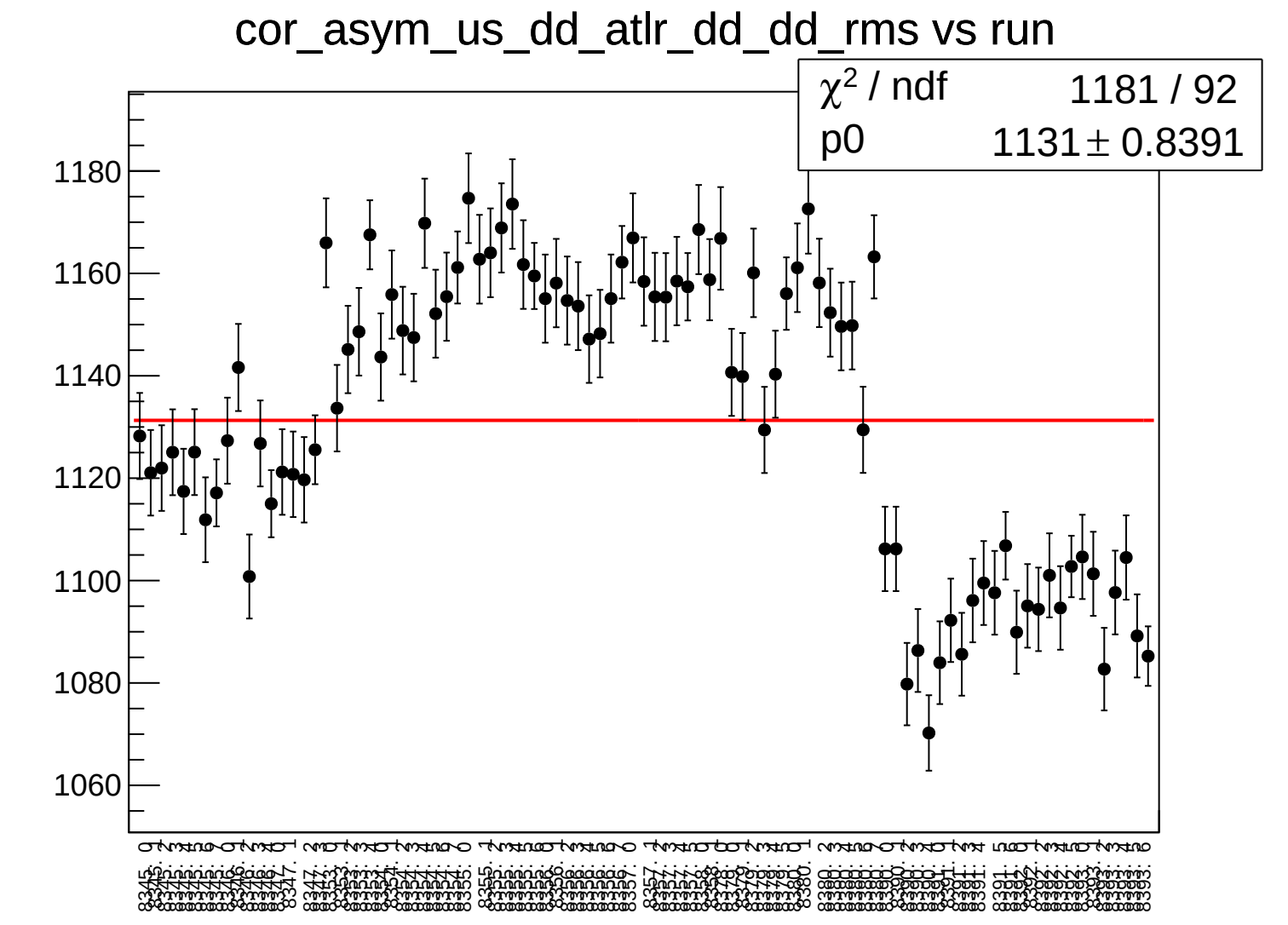

asym_us_dd_atlr_dd_dd_reg_correction_mean vs run
χ² / ndf 80.56 / 92
p0 −993.4 ± 527.7
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 93
Mean 11.35
Std Dev 0
3
2
1
0
−1
−2

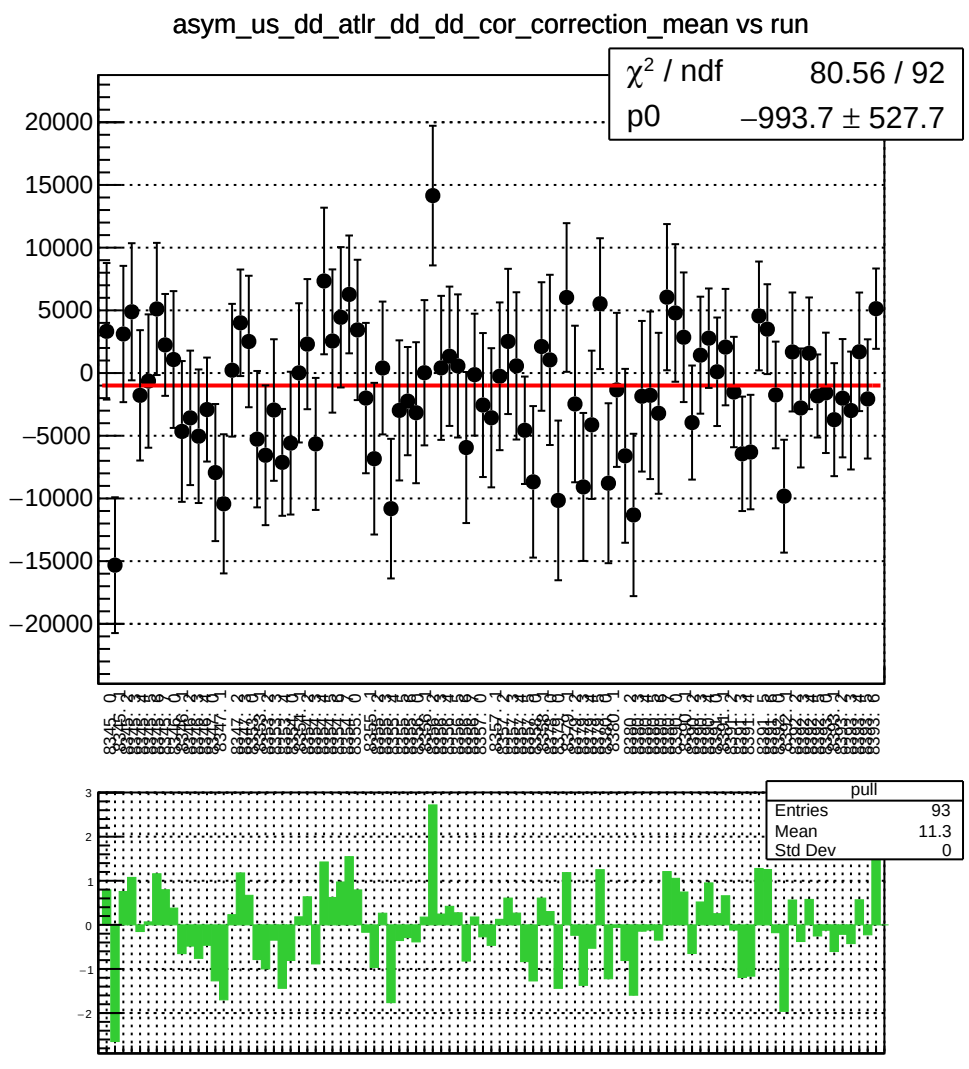

pull1D
Entries 93
Mean −0.03096
Std Dev 0.9302
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

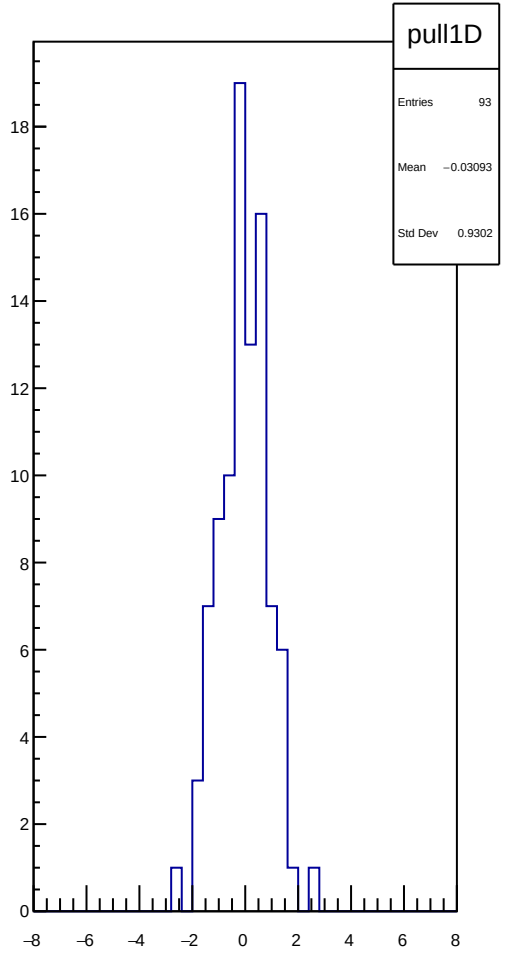

asym_us_dd_atlr_dd_dd_reg_correction_rms vs run
χ² / ndf 2.438e+04 / 92
p0 499.8 ± 0.3731
650
600
550
500
450
400

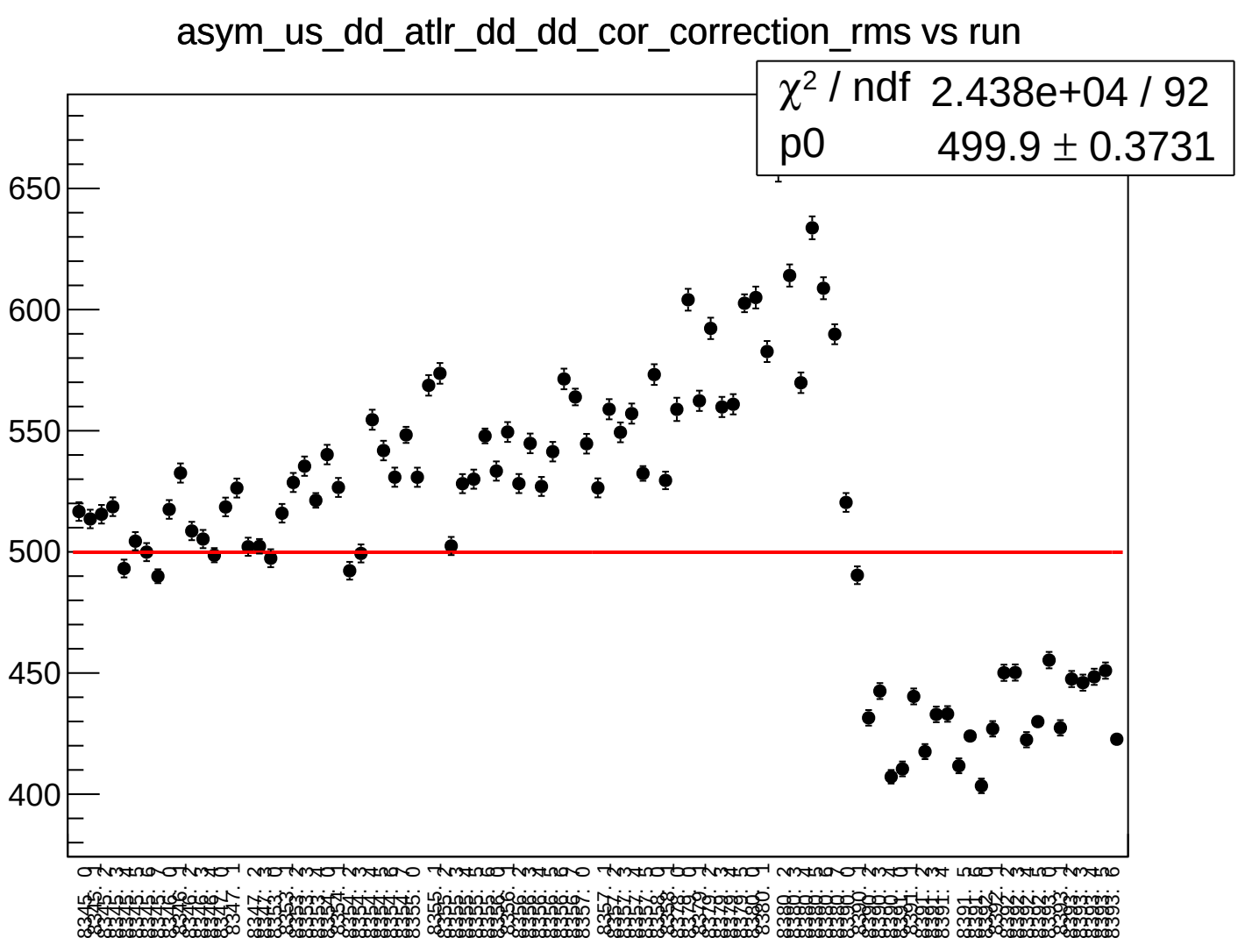

cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 94.89 / 92
p0 1593 ± 1187
pull
Entries 93
Mean 1676
Std Dev 0

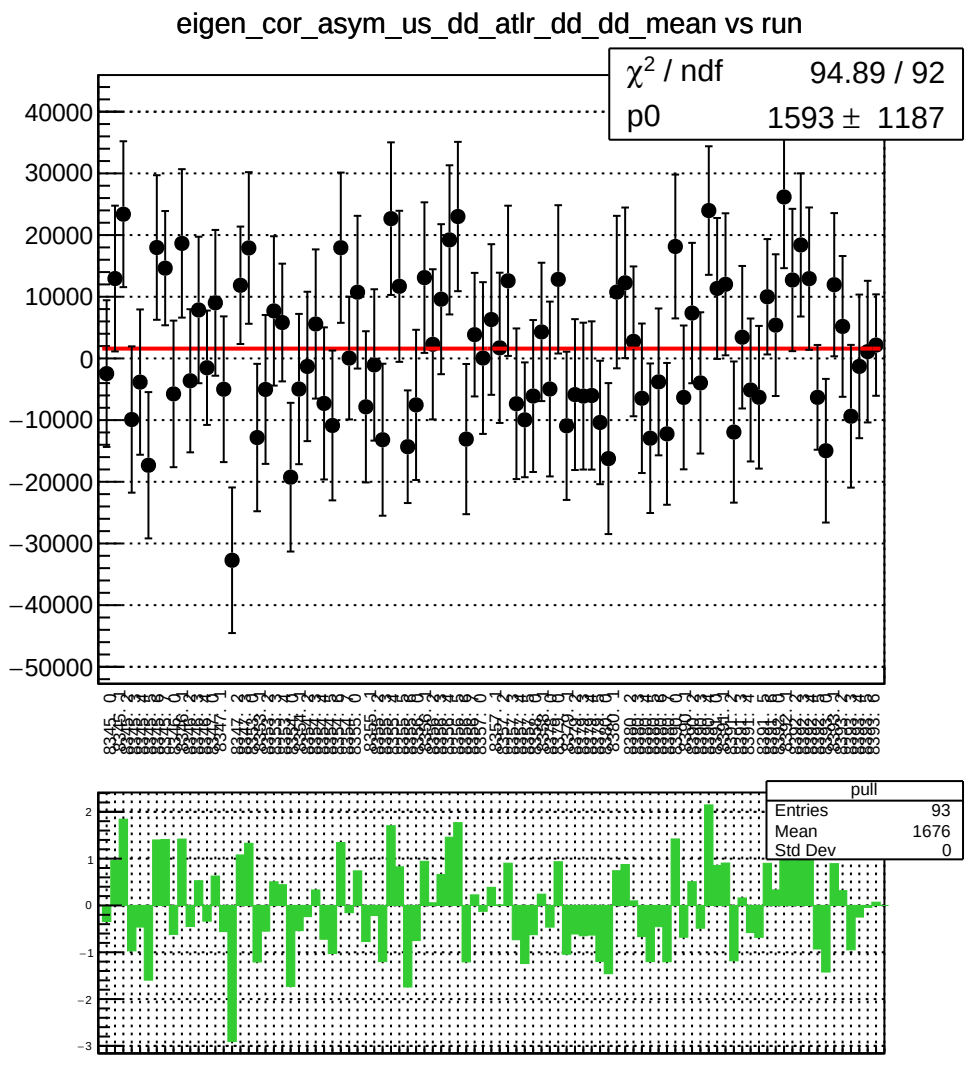

pull1D
Entries 93
Mean 0.0004571
Std Dev 1.01

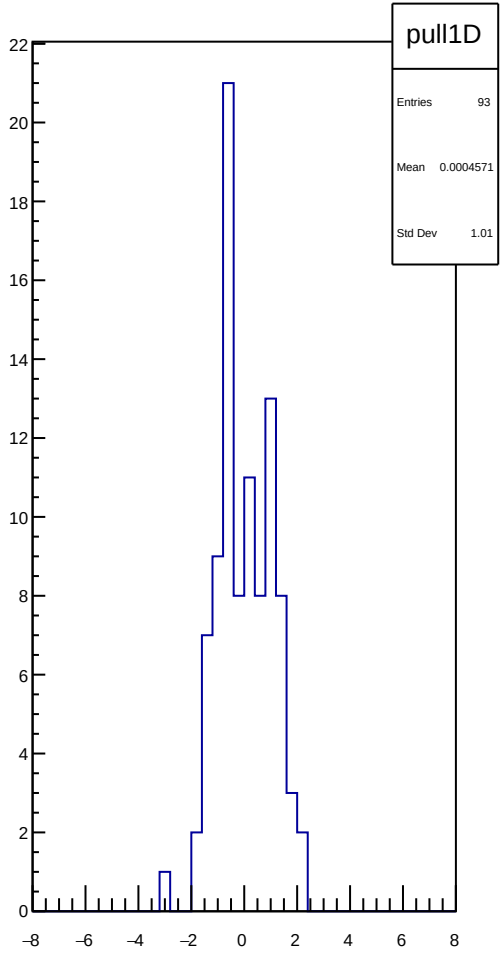

cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 1181 / 92
p0 1131 ± 0.8391
1180
1160
1140
1120
1100
1080
1060

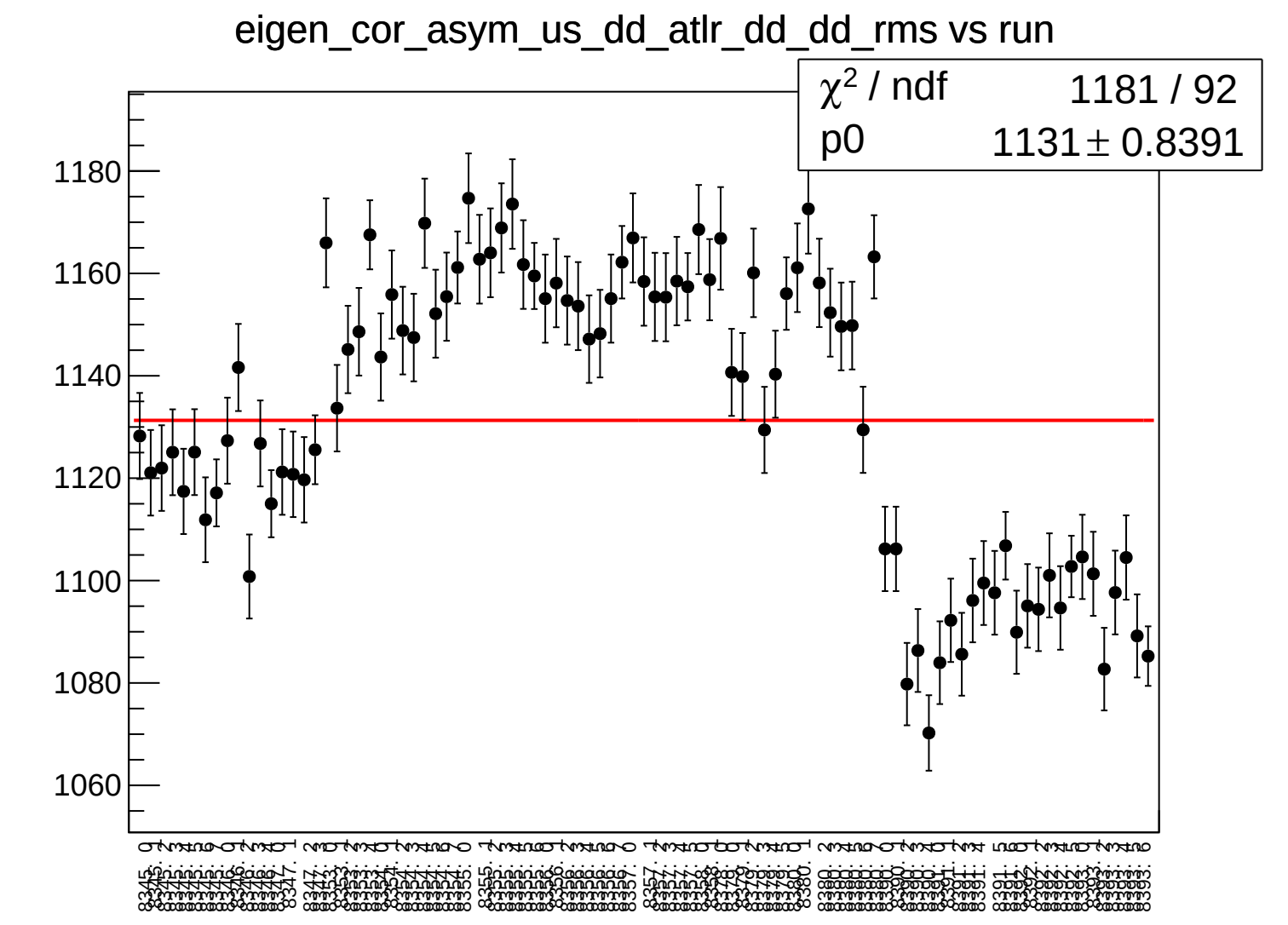

asym_us_dd_atlr_dd_dd_cor_correction_mean vs run
χ² / ndf 80.56 / 92
p0 −993.7 ± 527.7
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 93
Mean 11.3
Std Dev 0
3
2
1
0
−1
−2

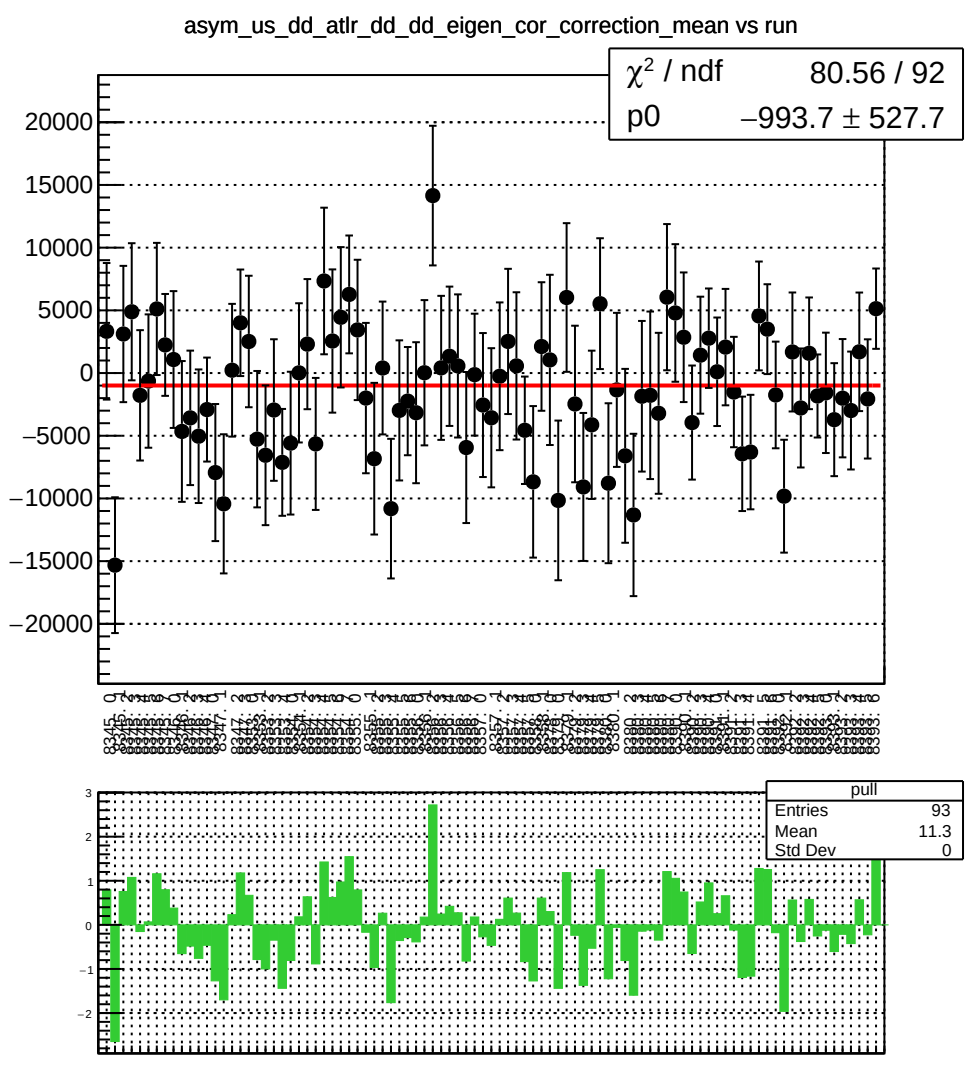

pull1D
Entries 93
Mean −0.03093
Std Dev 0.9302
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

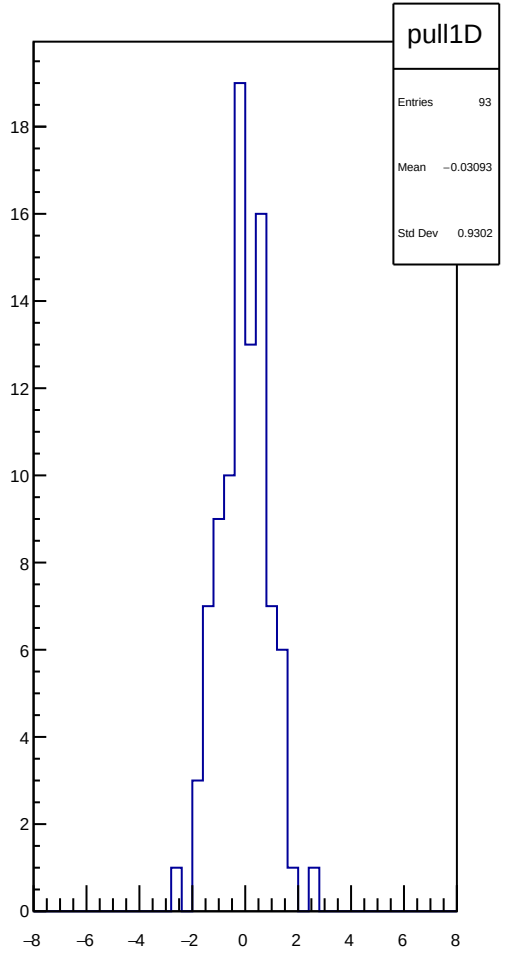

asym_us_dd_atlr_dd_dd_cor_correction_rms vs run
χ² / ndf 2.438e+04 / 92
p0 499.9 ± 0.3731
650
600
550
500
450
400

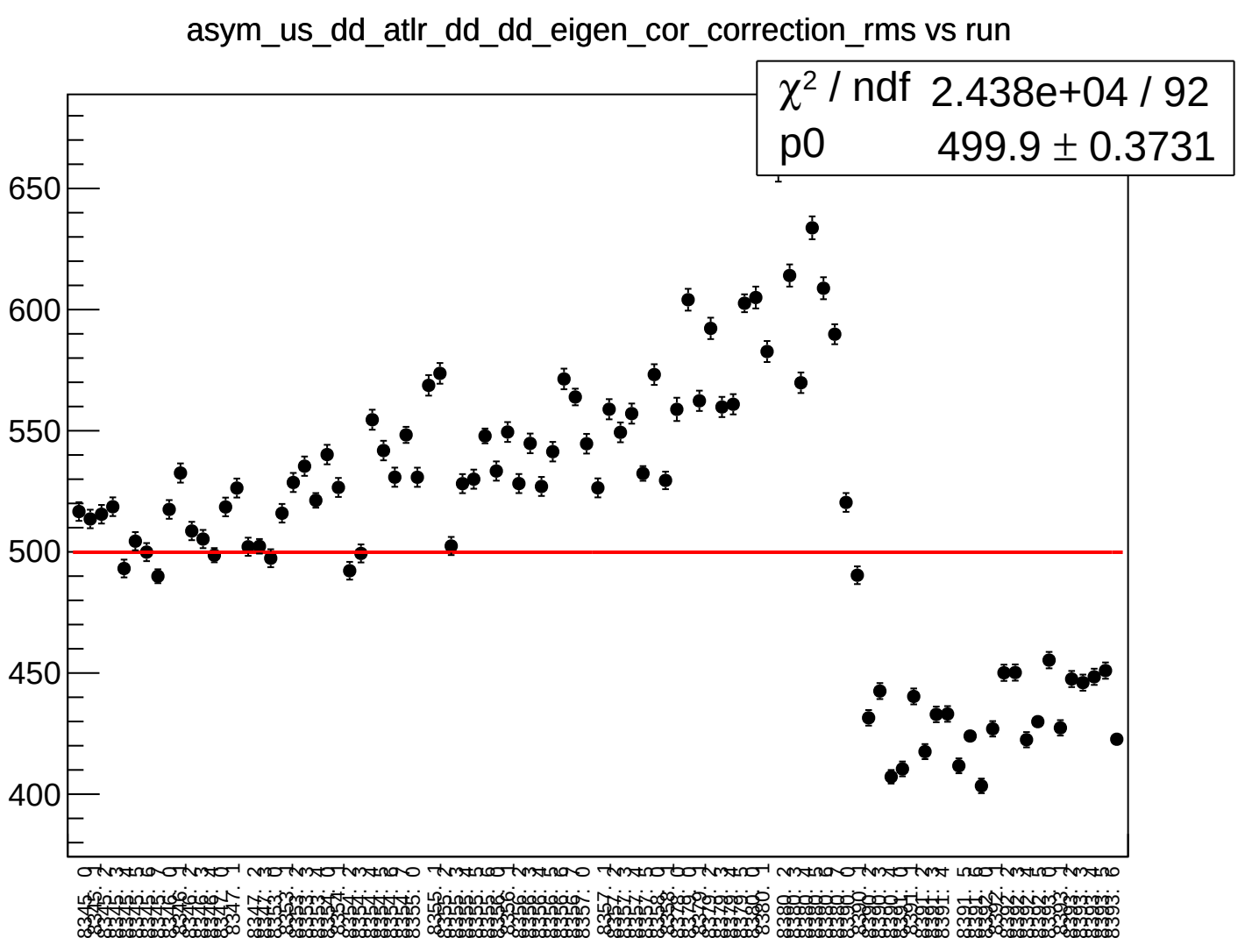

eigen_cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 94.89 / 92
p0 1593 ± 1187
pull
Entries 93
Mean 1676
Std Dev 0

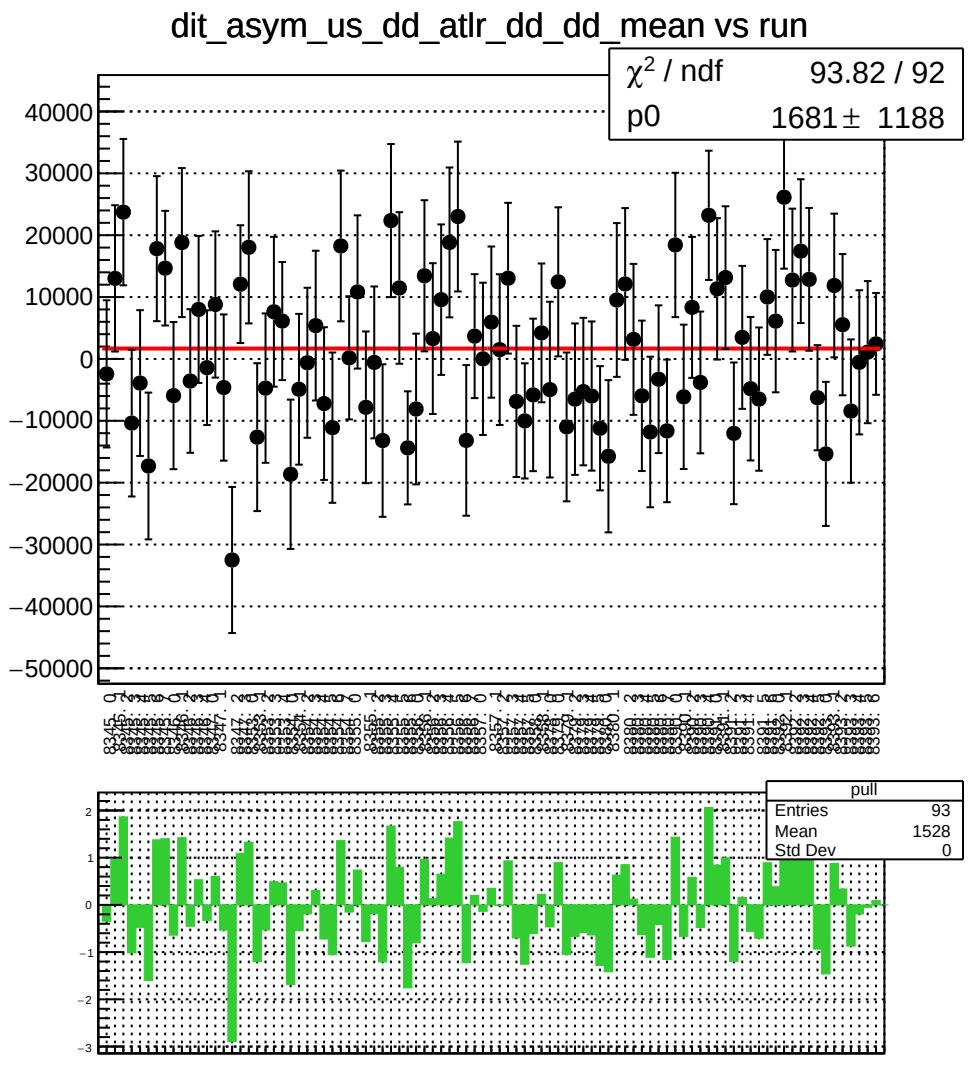

pull1D
Entries 93
Mean 0.0004571
Std Dev 1.01

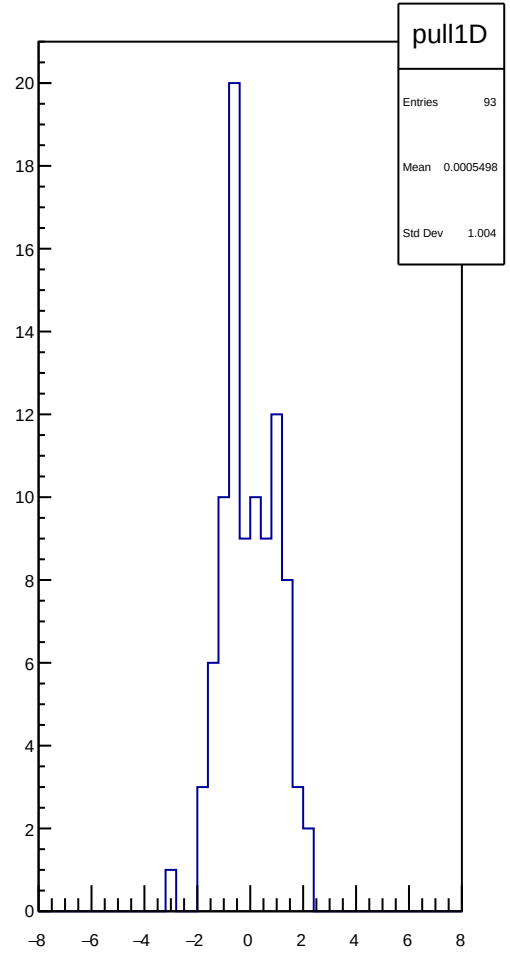

eigen_cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 1181 / 92
p0 1131 ± 0.8391
1180
1160
1140
1120
1100
1080
1060

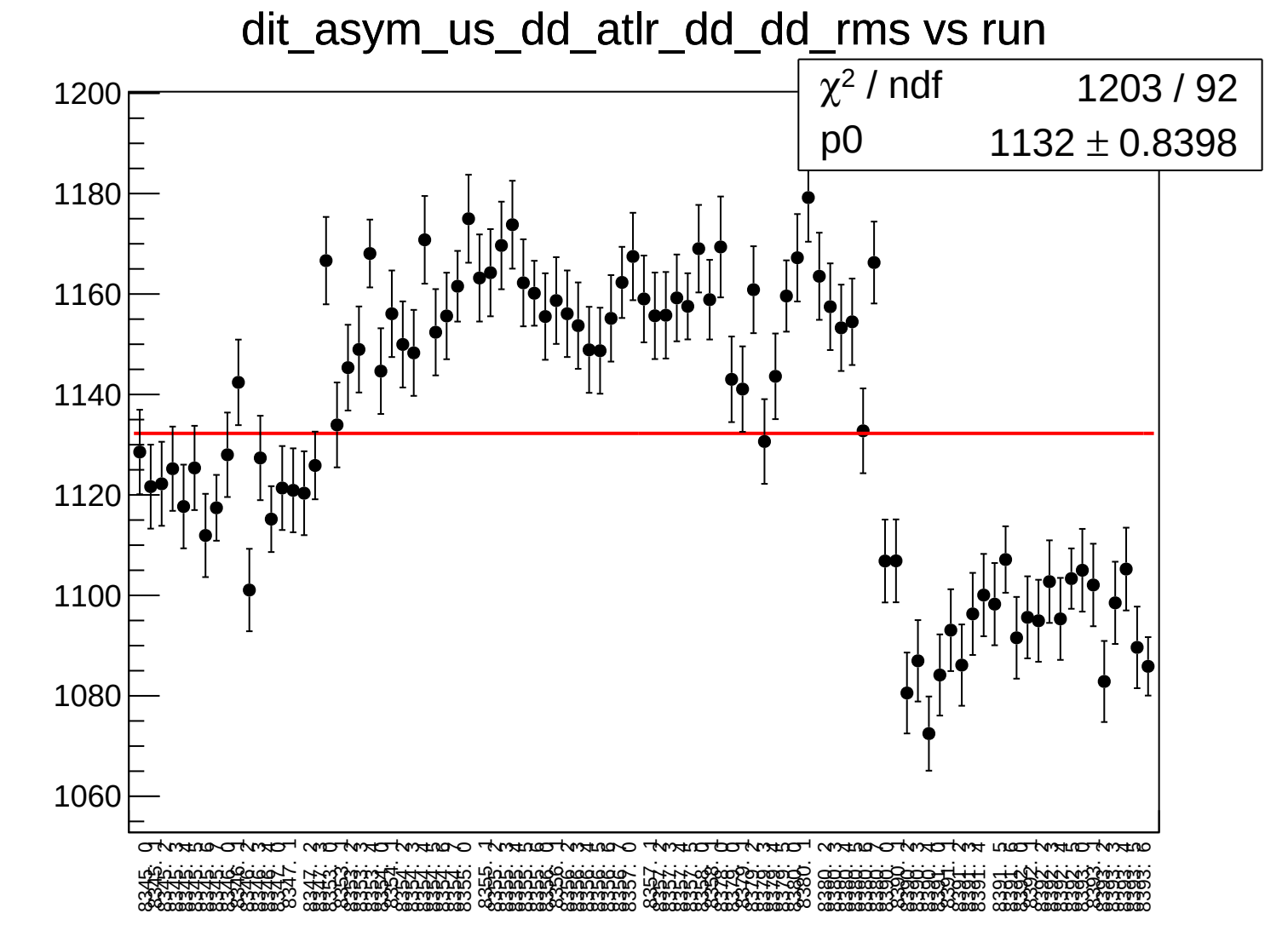

asym_us_dd_atlr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 80.56 / 92
p0 −993.7 ± 527.7
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 93
Mean 11.3
Std Dev 0
3
2
1
0
−1
−2

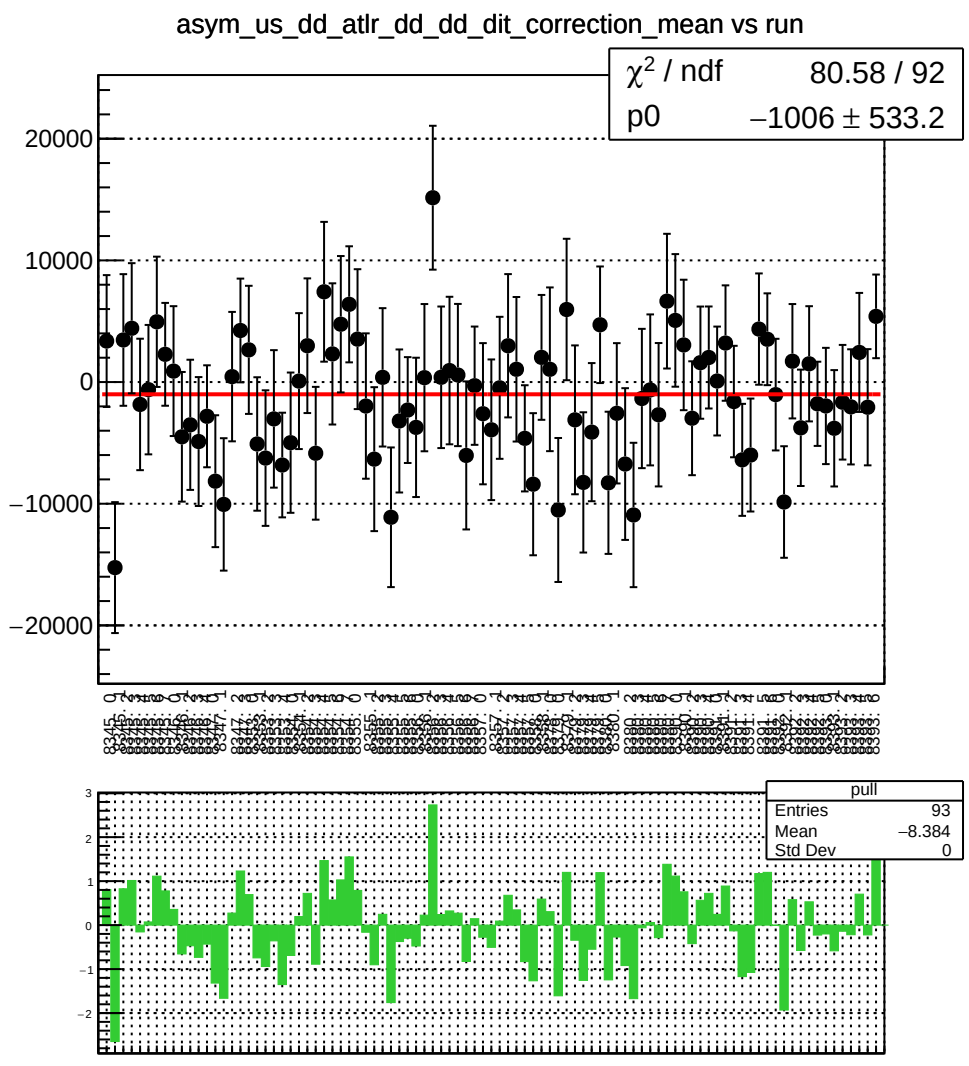

pull1D
Entries 93
Mean −0.03093
Std Dev 0.9302
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

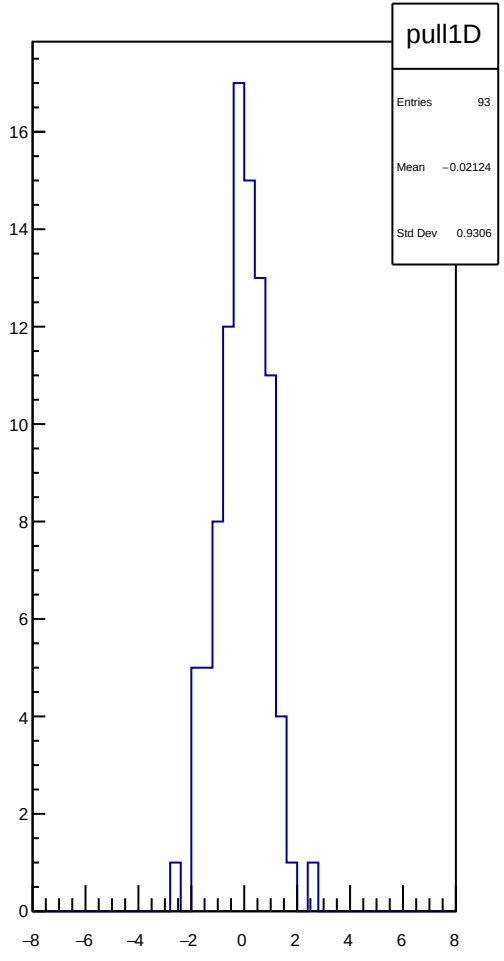

asym_us_dd_atlr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.438e+04 / 92
p0 499.9 ± 0.3731
650
600
550
500
450
400

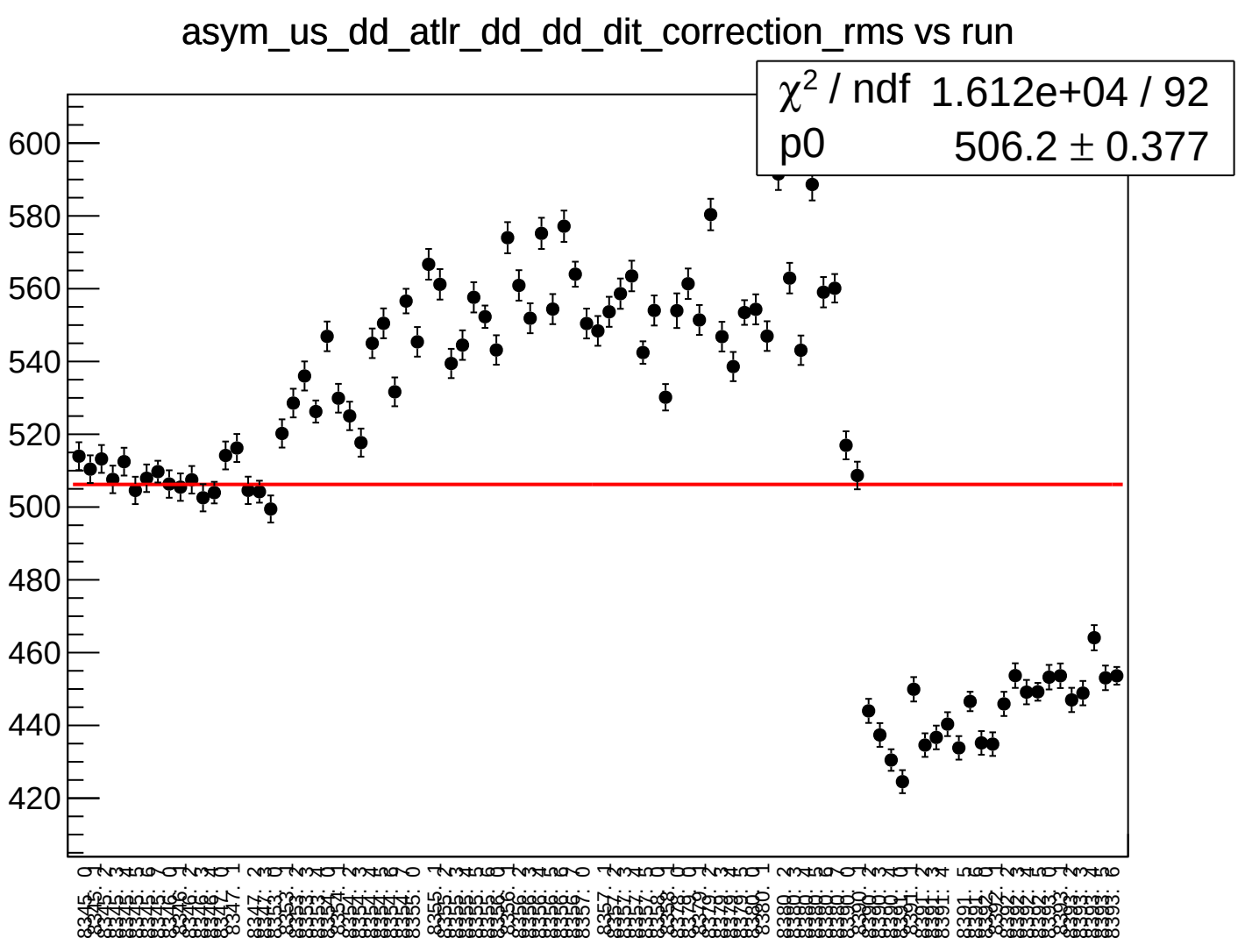

dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 93.82 / 92
p0 1681 ± 1188
pull
Entries 93
Mean 1528
Std Dev 0

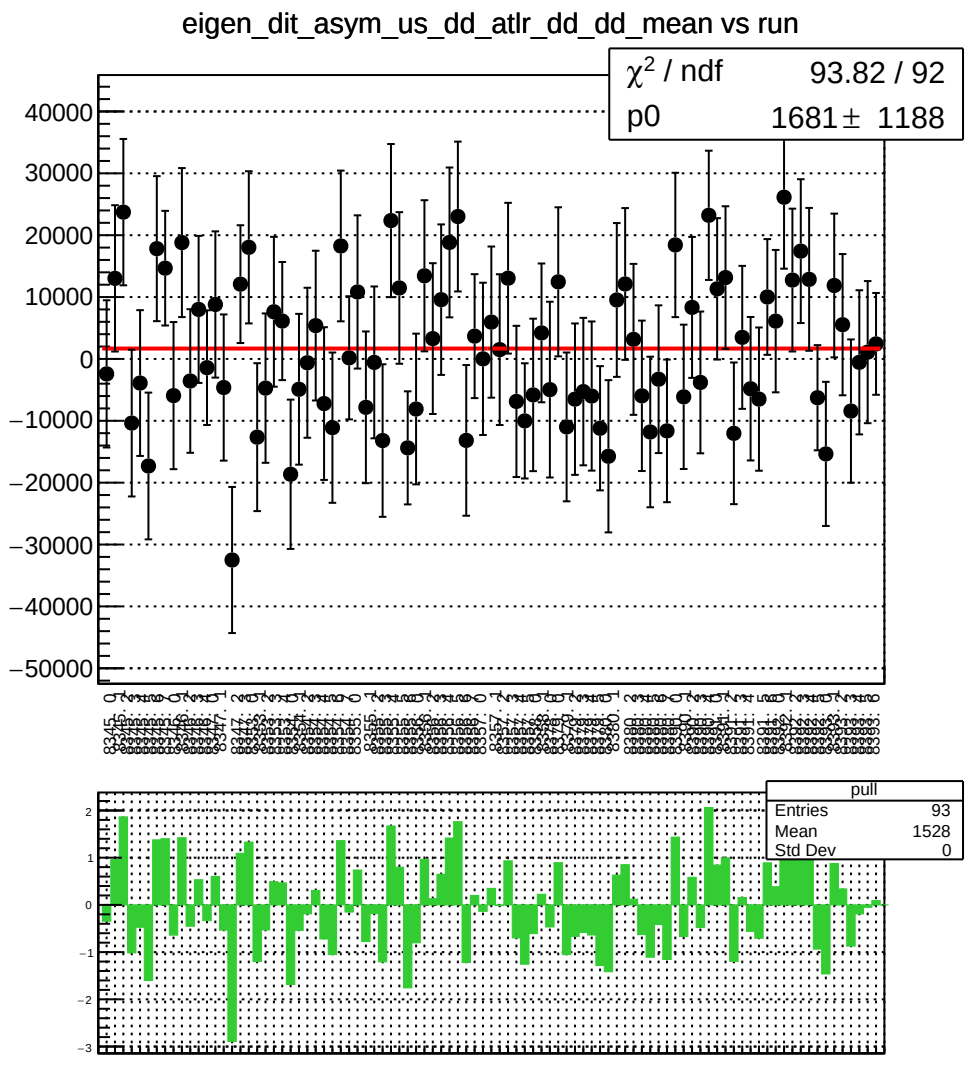

pull1D
Entries 93
Mean 0.0005498
Std Dev 1.004

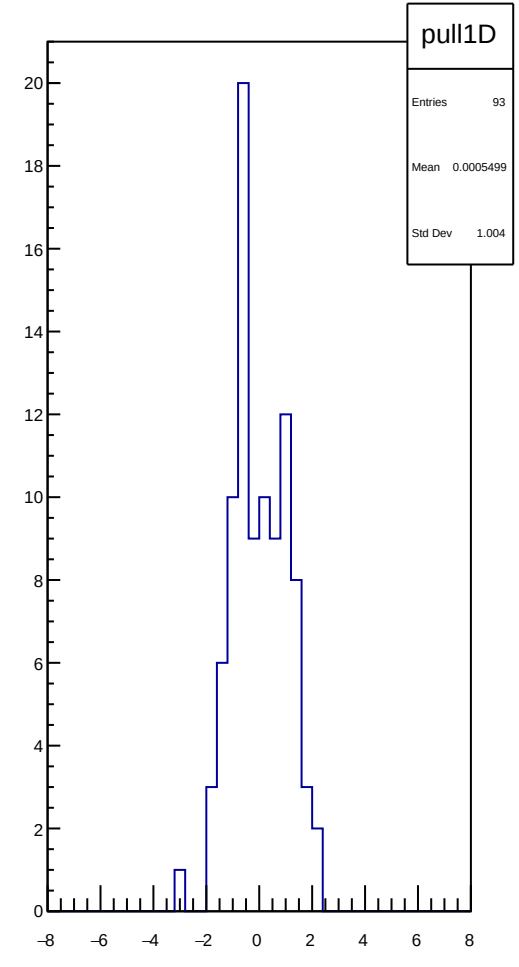

dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 1203 / 92
p0 1132 ± 0.8398
1200
1180
1160
1140
1120
1100
1080
1060

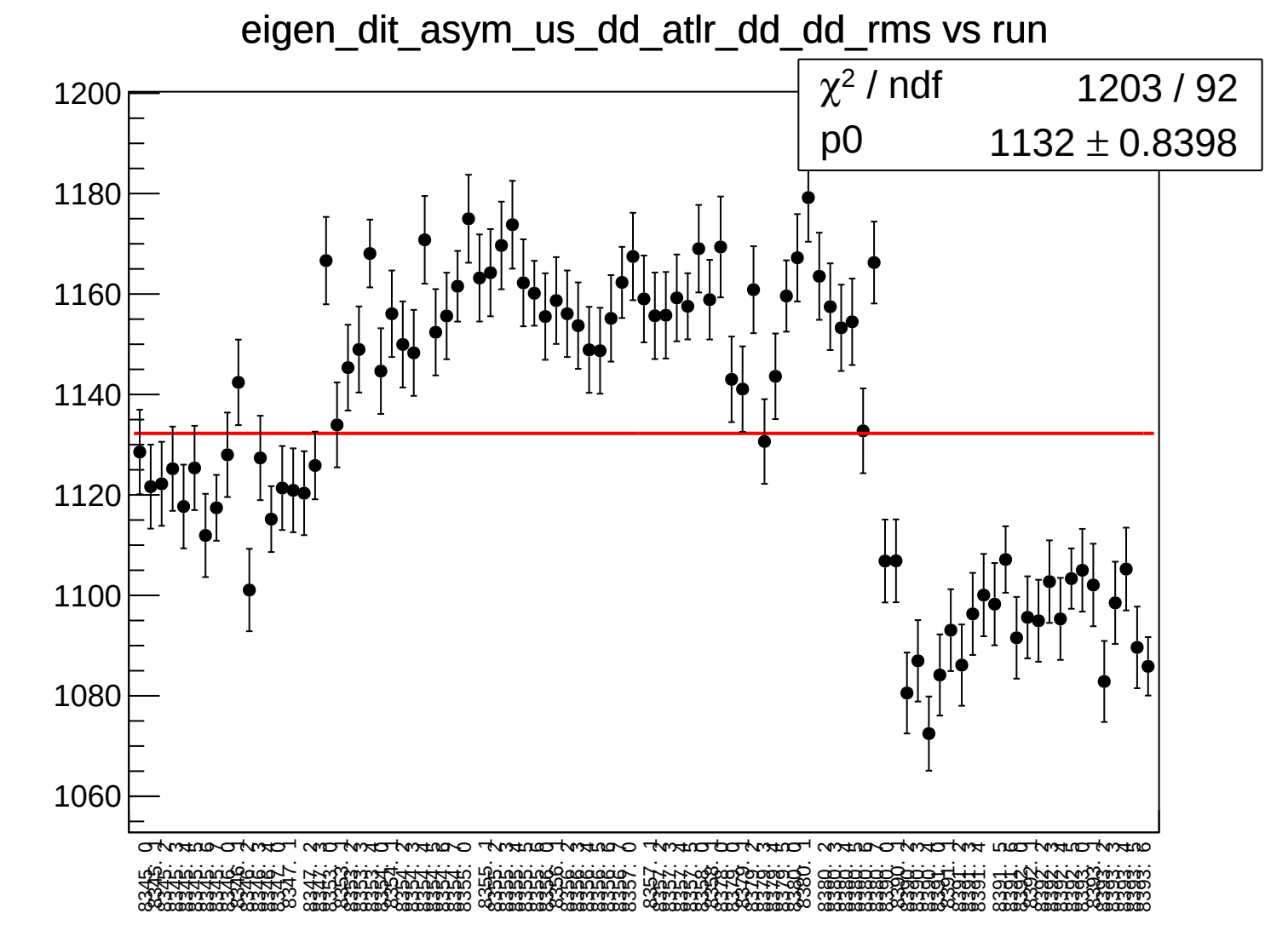

asym_us_dd_atlr_dd_dd_dit_correction_mean vs run
χ² / ndf 80.58 / 92
p0 −1006 ± 533.2
20000
10000
0
−10000
−20000
pull
Entries 93
Mean −8.384
Std Dev 0
3
2
1
0
−1
−2

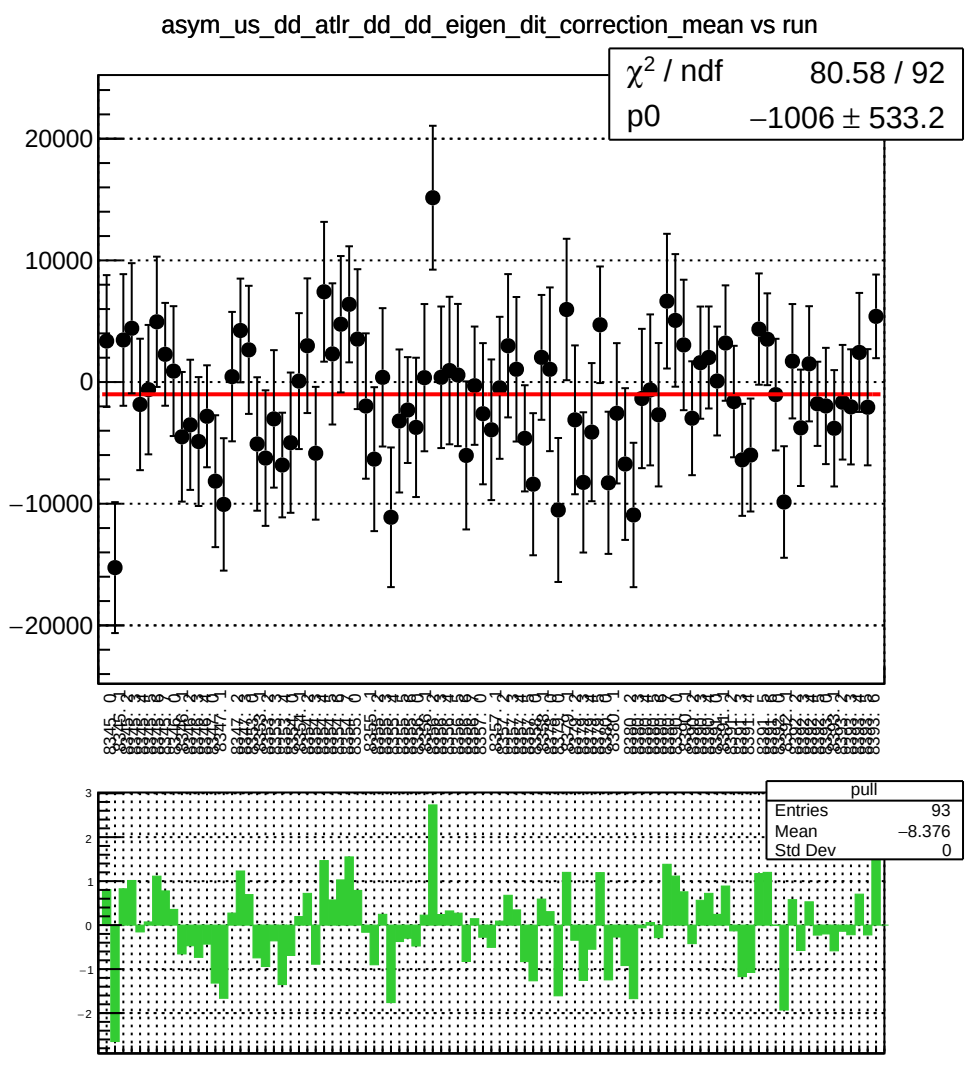

pull1D
Entries 93
Mean −0.02124
Std Dev 0.9306
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

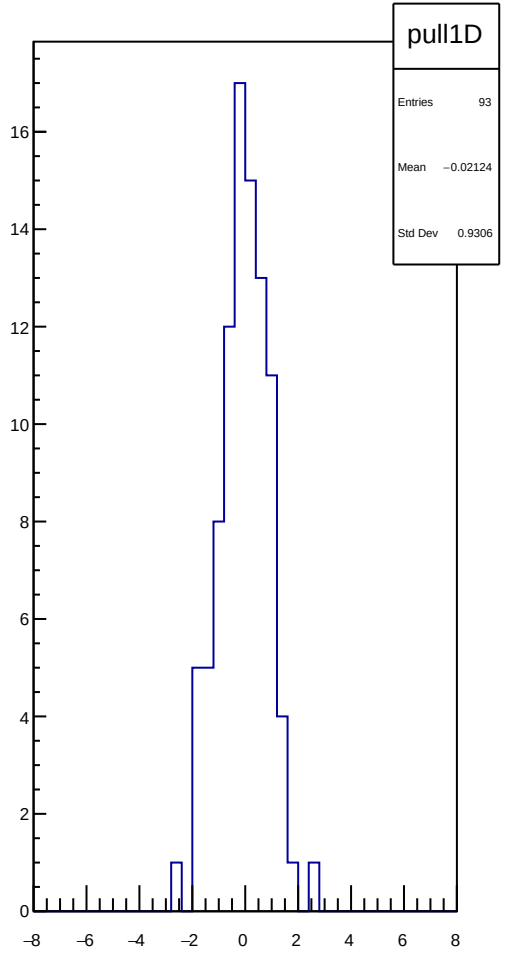

asym_us_dd_atlr_dd_dd_dit_correction_rms vs run
χ² / ndf 1.612e+04 / 92
p0 506.2 ± 0.377
600
580
560
540
520
500
480
460
440
420

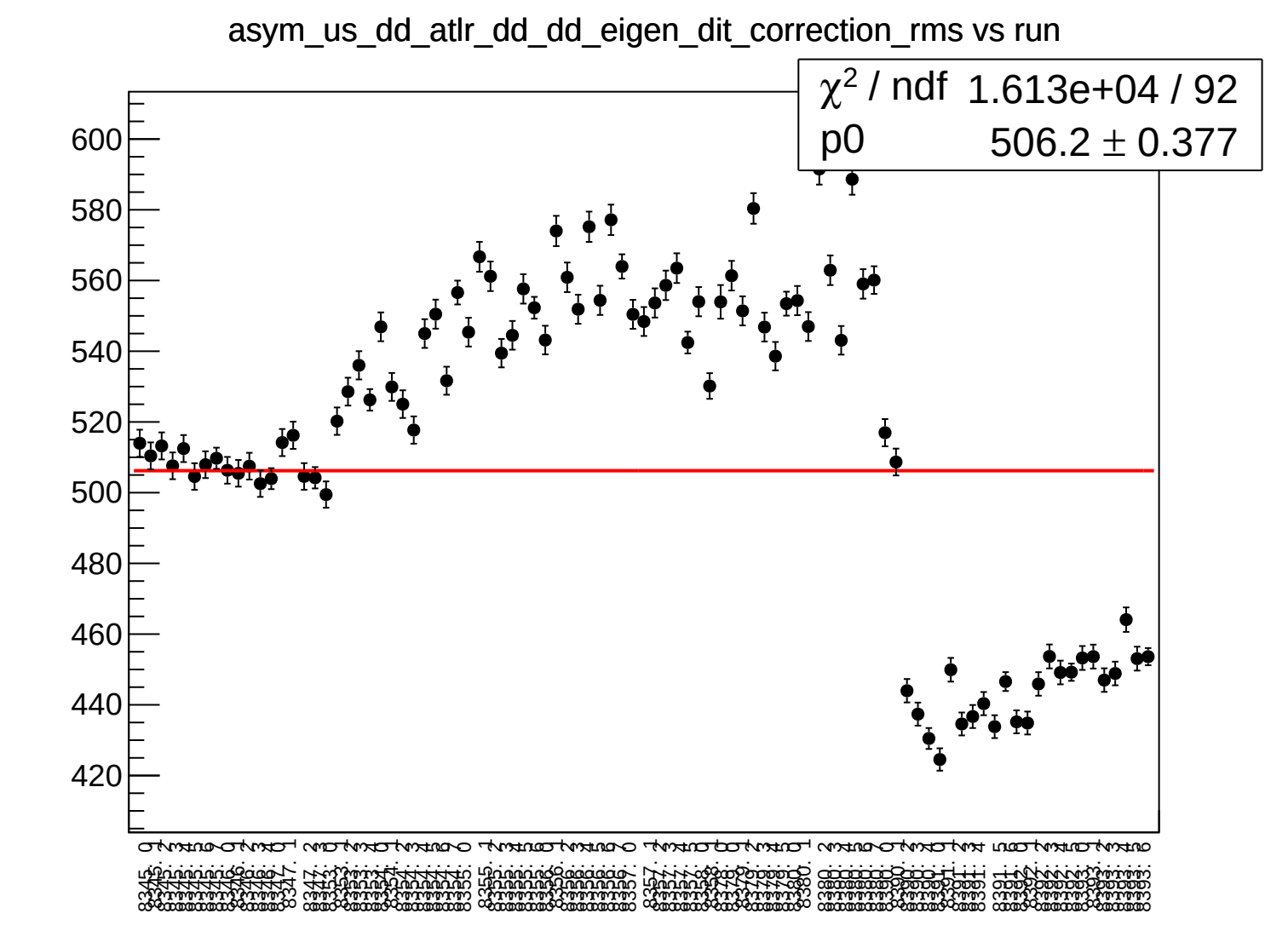

eigen_dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 93.82 / 92
p0 1681 ± 1188
pull
Entries 93
Mean 1528
Std Dev 0

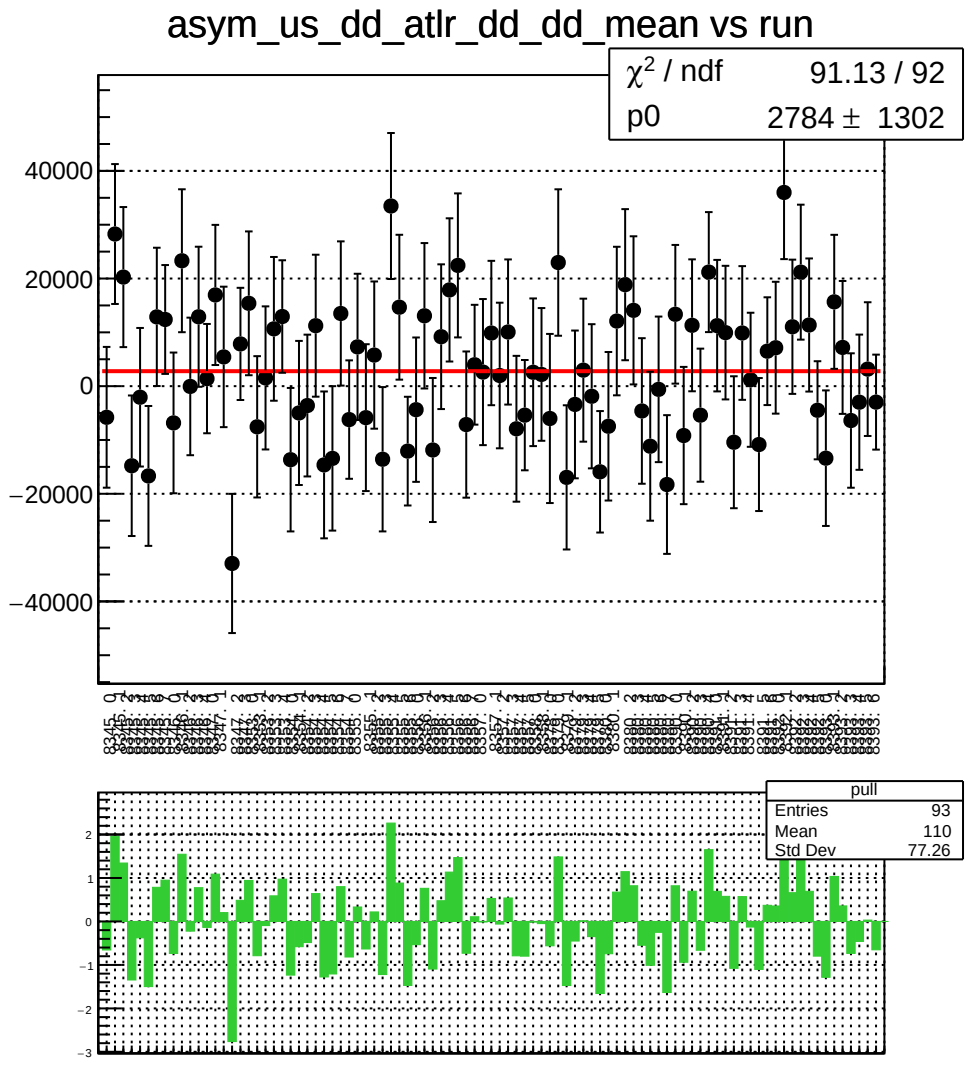

pull1D
Entries 93
Mean 0.0005499
Std Dev 1.004

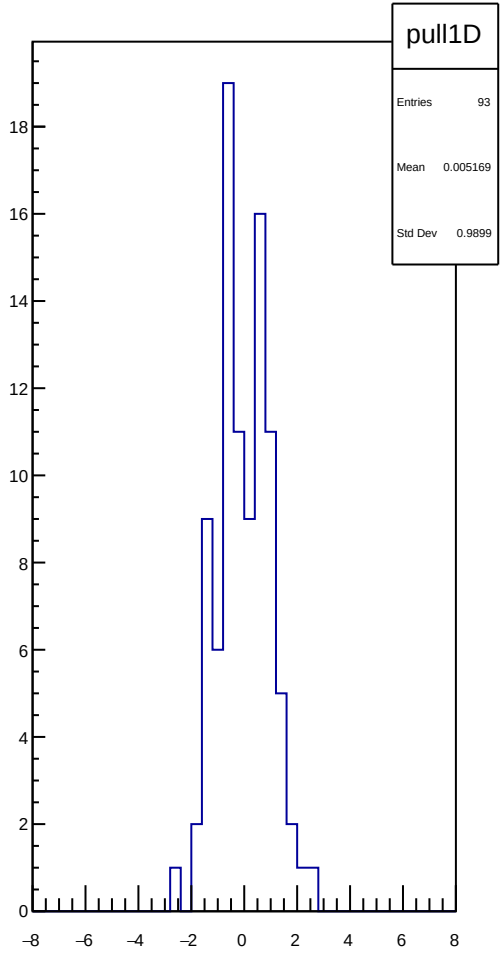

eigen_dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 1203 / 92
p0 1132 ± 0.8398
1200
1180
1160
1140
1120
1100
1080
1060

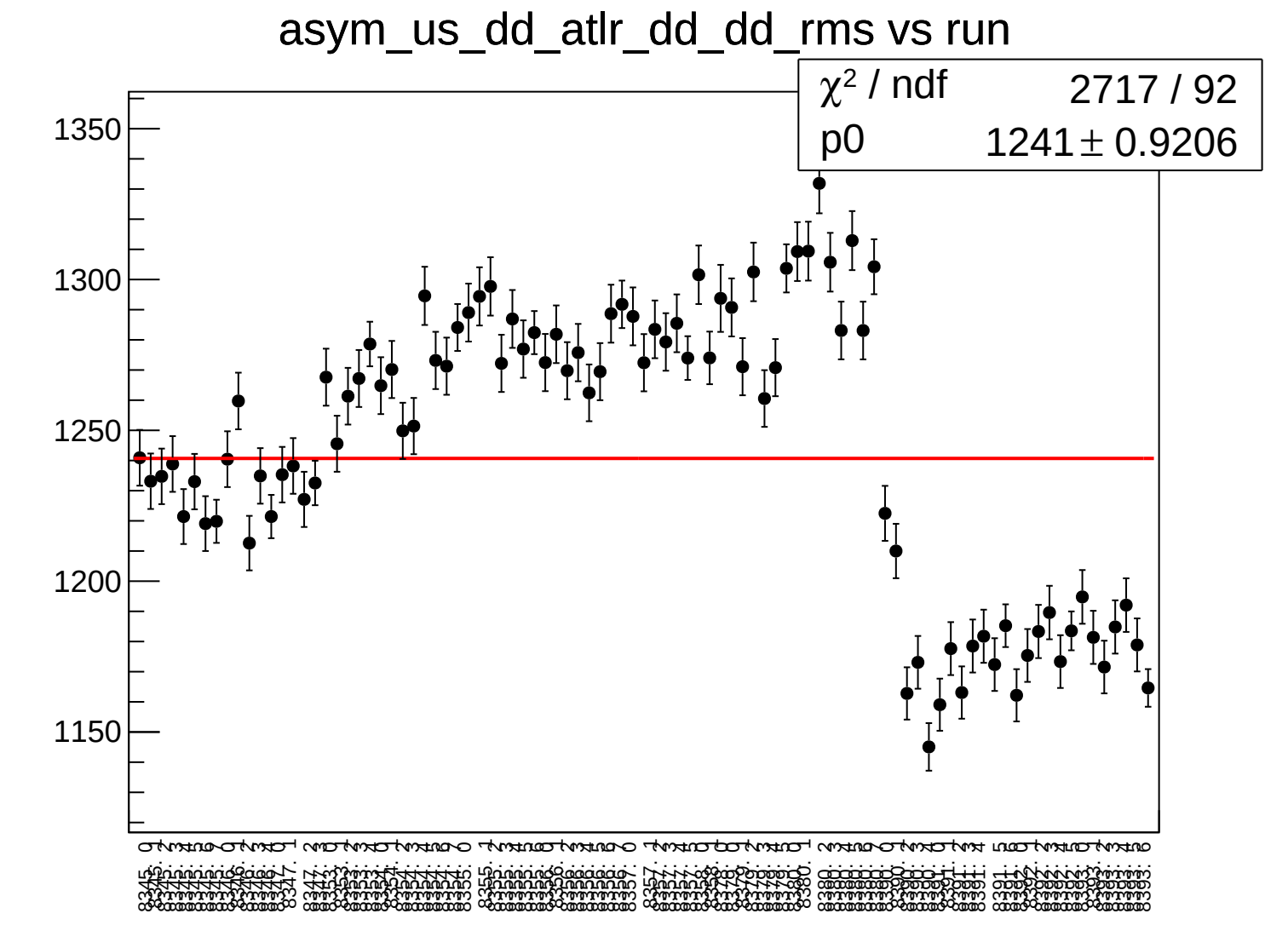

asym_us_dd_atlr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 80.58 / 92
p0 −1006 ± 533.2
20000
10000
0
−10000
−20000
pull
Entries 93
Mean −8.376
Std Dev 0
3
2
1
0
−1
−2

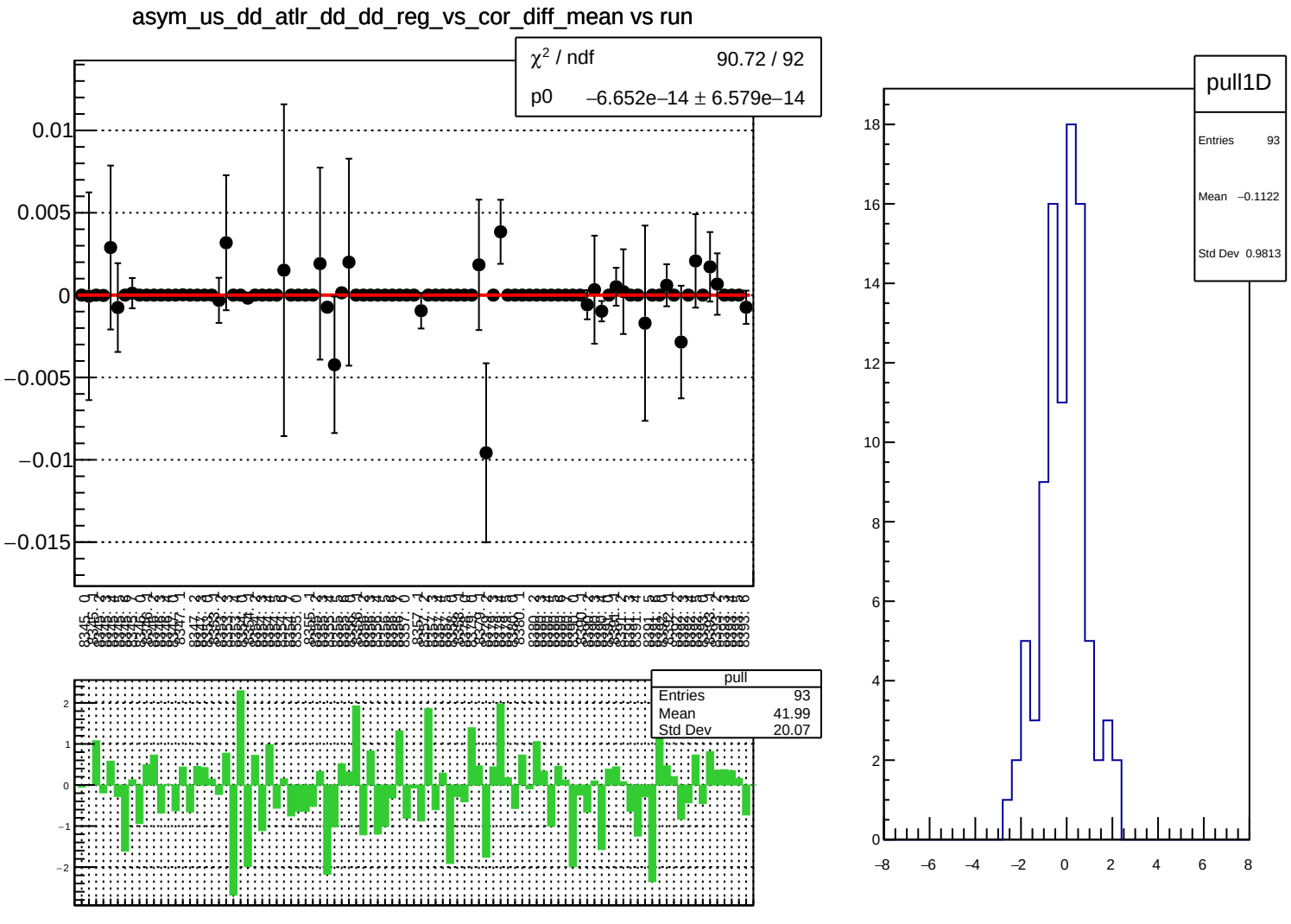

pull1D
Entries 93
Mean −0.02124
Std Dev 0.9306
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

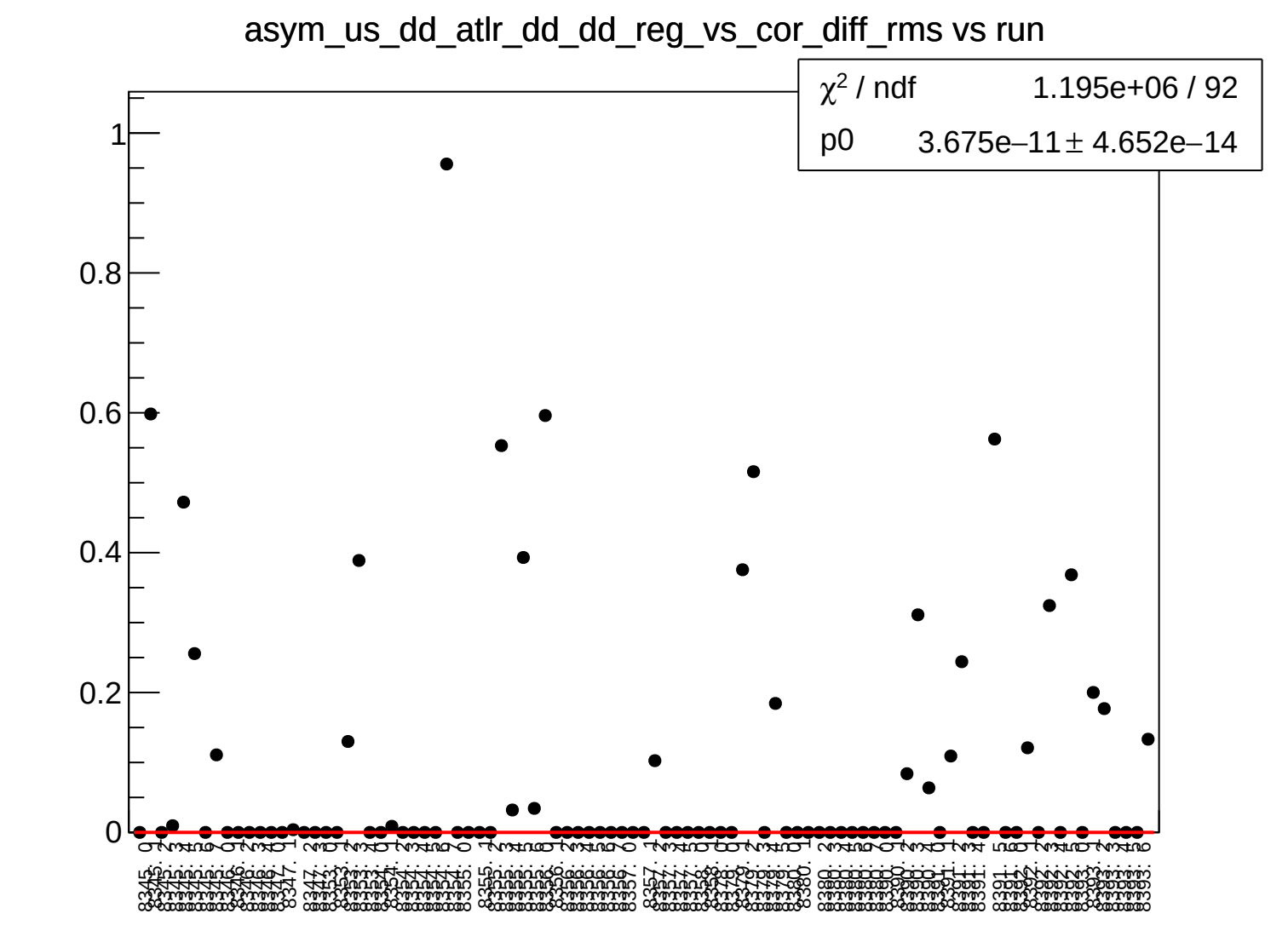

asym_us_dd_atlr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.613e+04 / 92
p0 506.2 ± 0.377
600
580
560
540
520
500
480
460
440
420

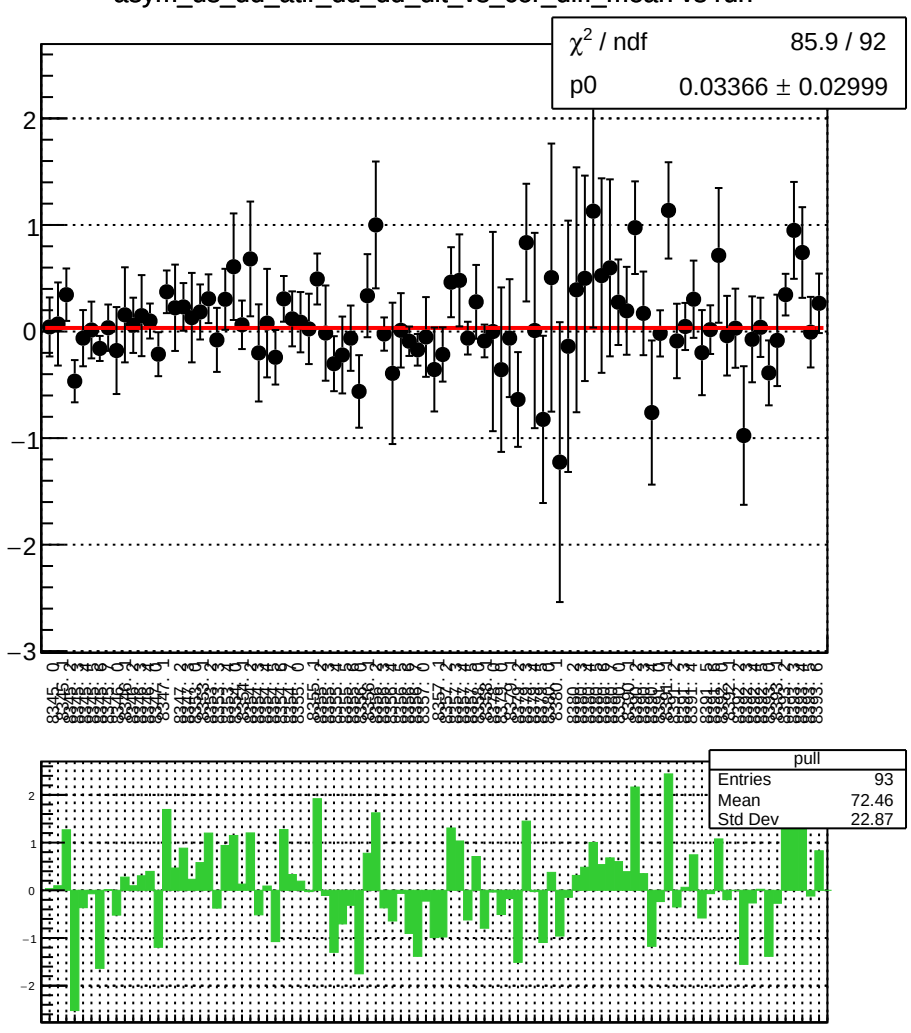

asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 91.13 / 92
p0 2784 ± 1302
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 110
Std Dev 77.26
2
1
0
−1
−2
−3

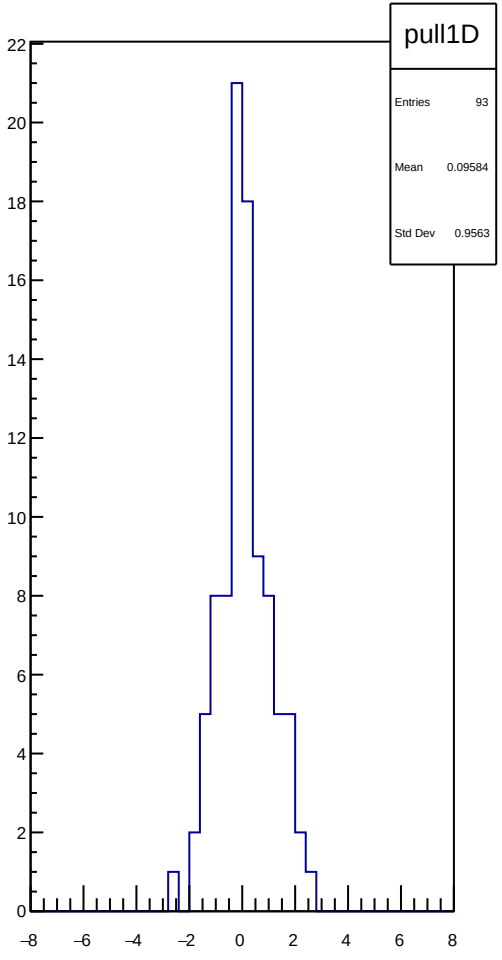

pull1D
Entries 93
Mean 0.005169
Std Dev 0.9899
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

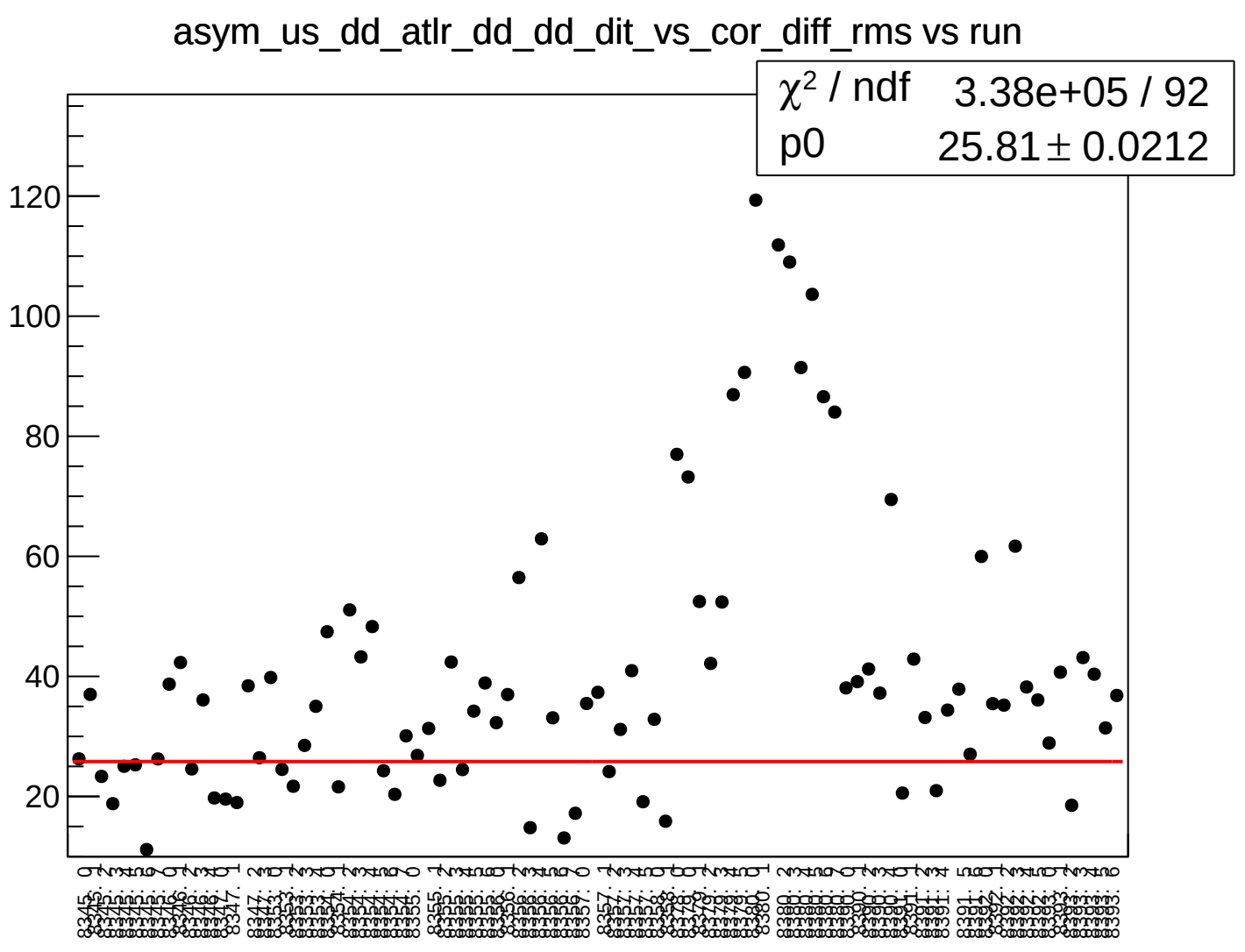

asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 2717 / 92
p0 1241 ± 0.9206
1350
1300
1250
1200
1150

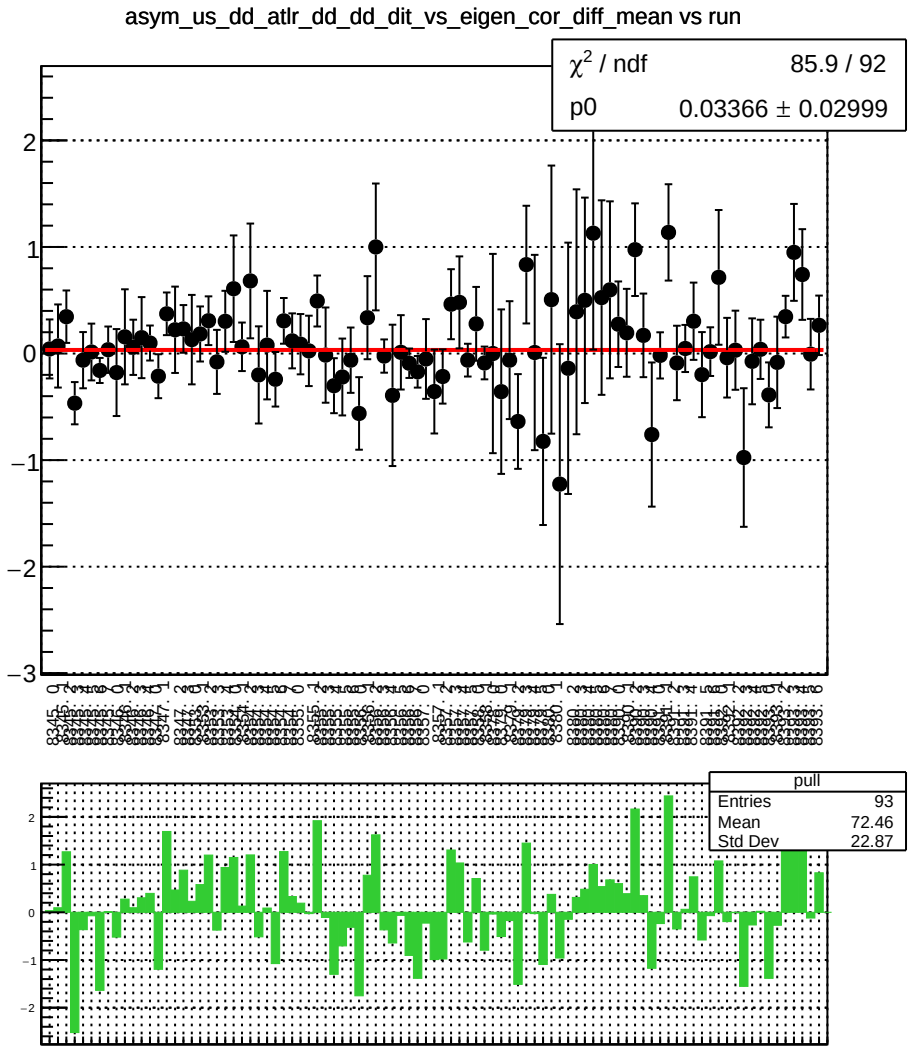

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 90.72 / 92
p0 −6.652e−14 ± 6.579e−14
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 93
Mean 41.99
Std Dev 20.07
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.1122
Std Dev 0.9813
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

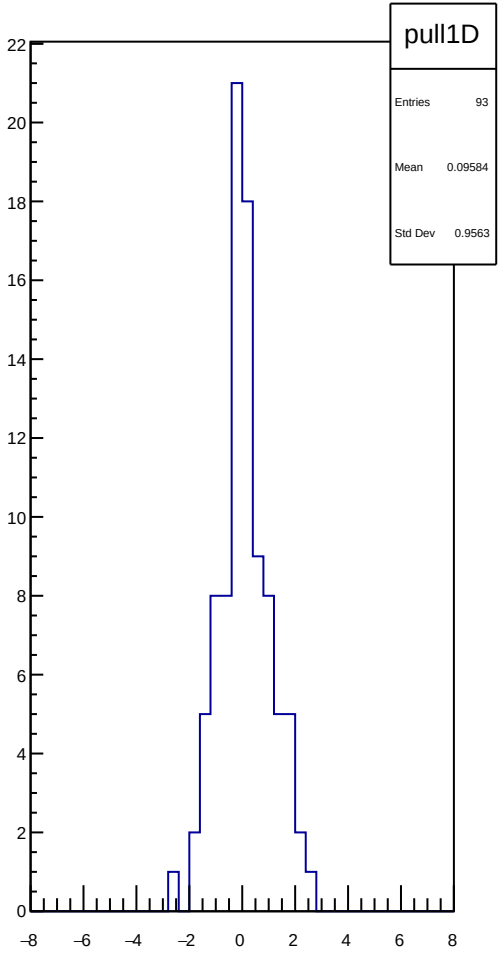

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.195e+06 / 92
p0 3.675e−11 ± 4.652e−14
1
0.8
0.6
0.4
0.2
0

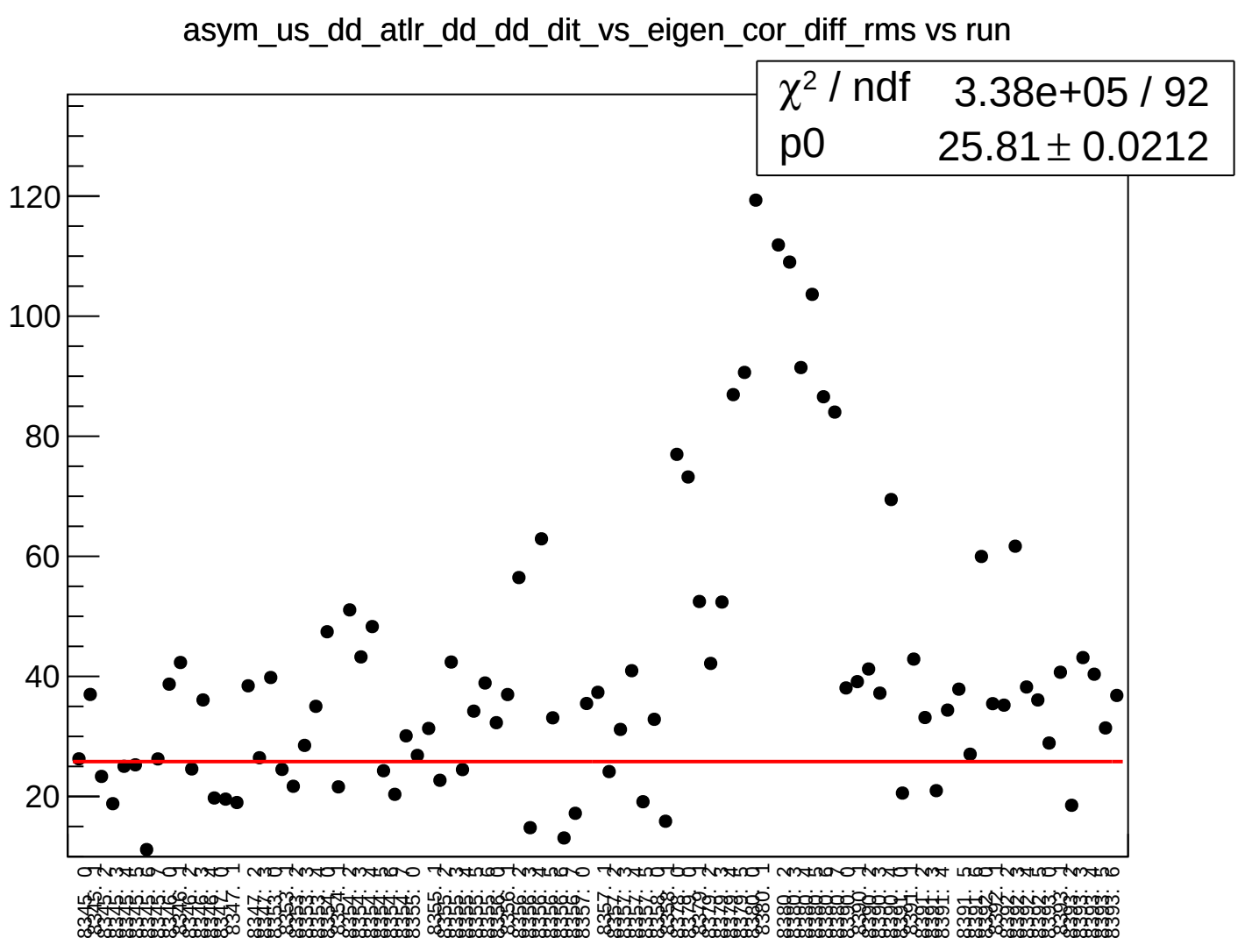

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 85.9 / 92
p0 0.03366 ± 0.02999
pull
Entries 93
Mean 72.46
Std Dev 22.87

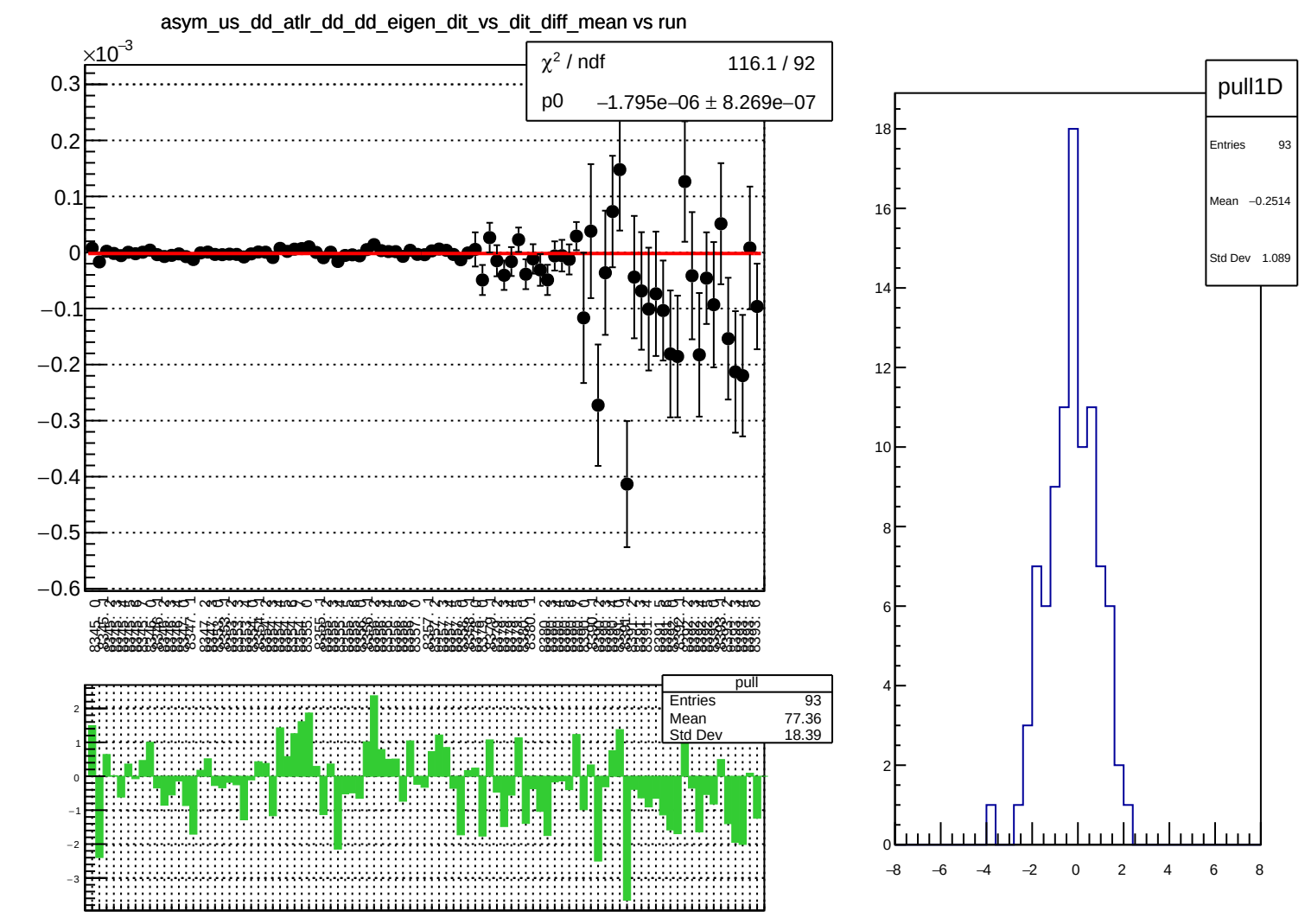

pull1D
Entries 93
Mean 0.09584
Std Dev 0.9563

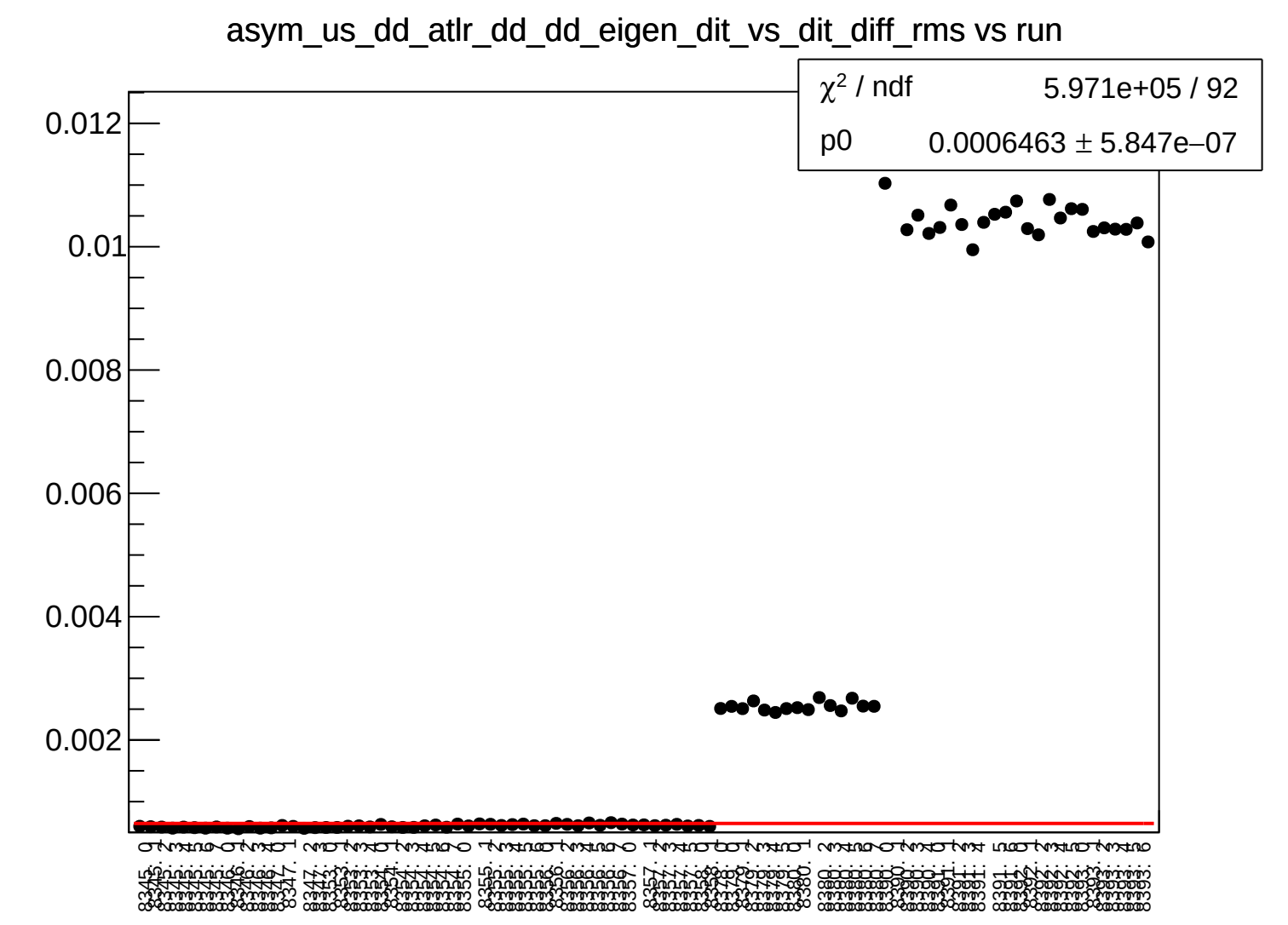

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.38e+05 / 92
p0 25.81 ± 0.0212
120
100
80
60
40
20

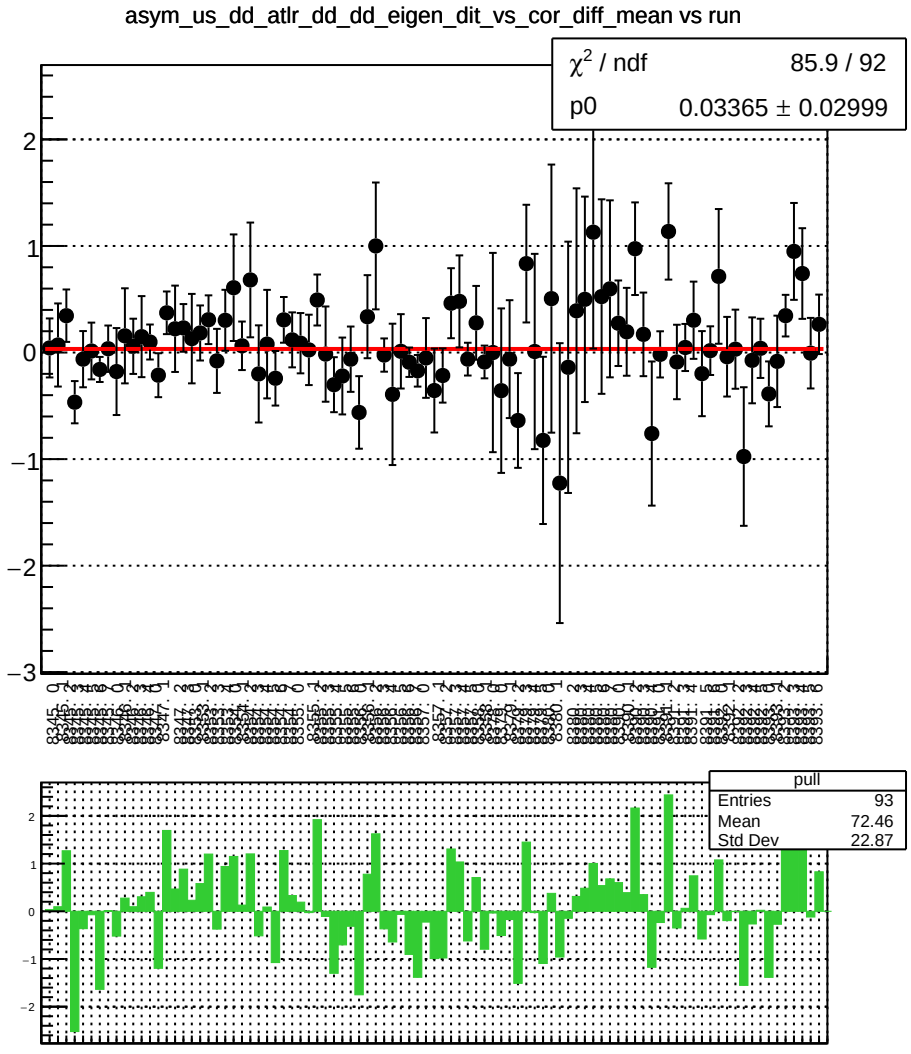

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.9 / 92
p0 0.03366 ± 0.02999
pull
Entries 93
Mean 72.46
Std Dev 22.87

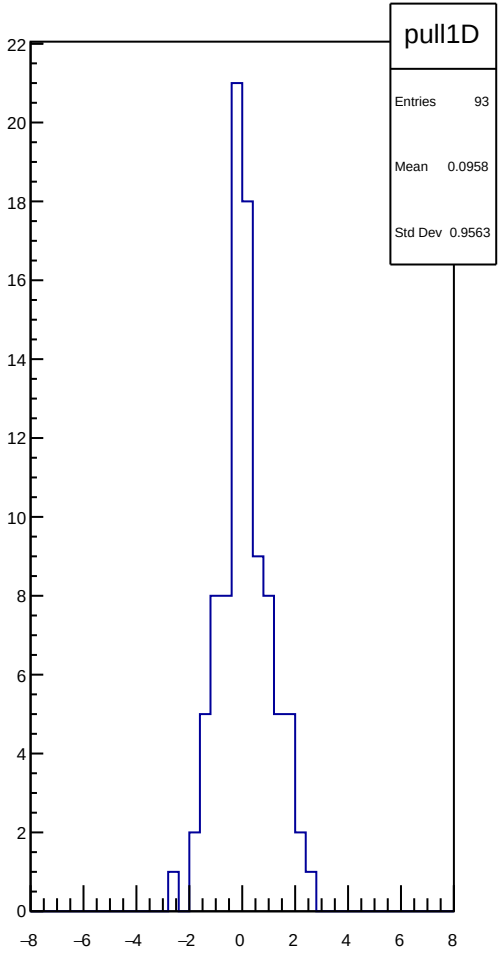

pull1D
Entries 93
Mean 0.09584
Std Dev 0.9563

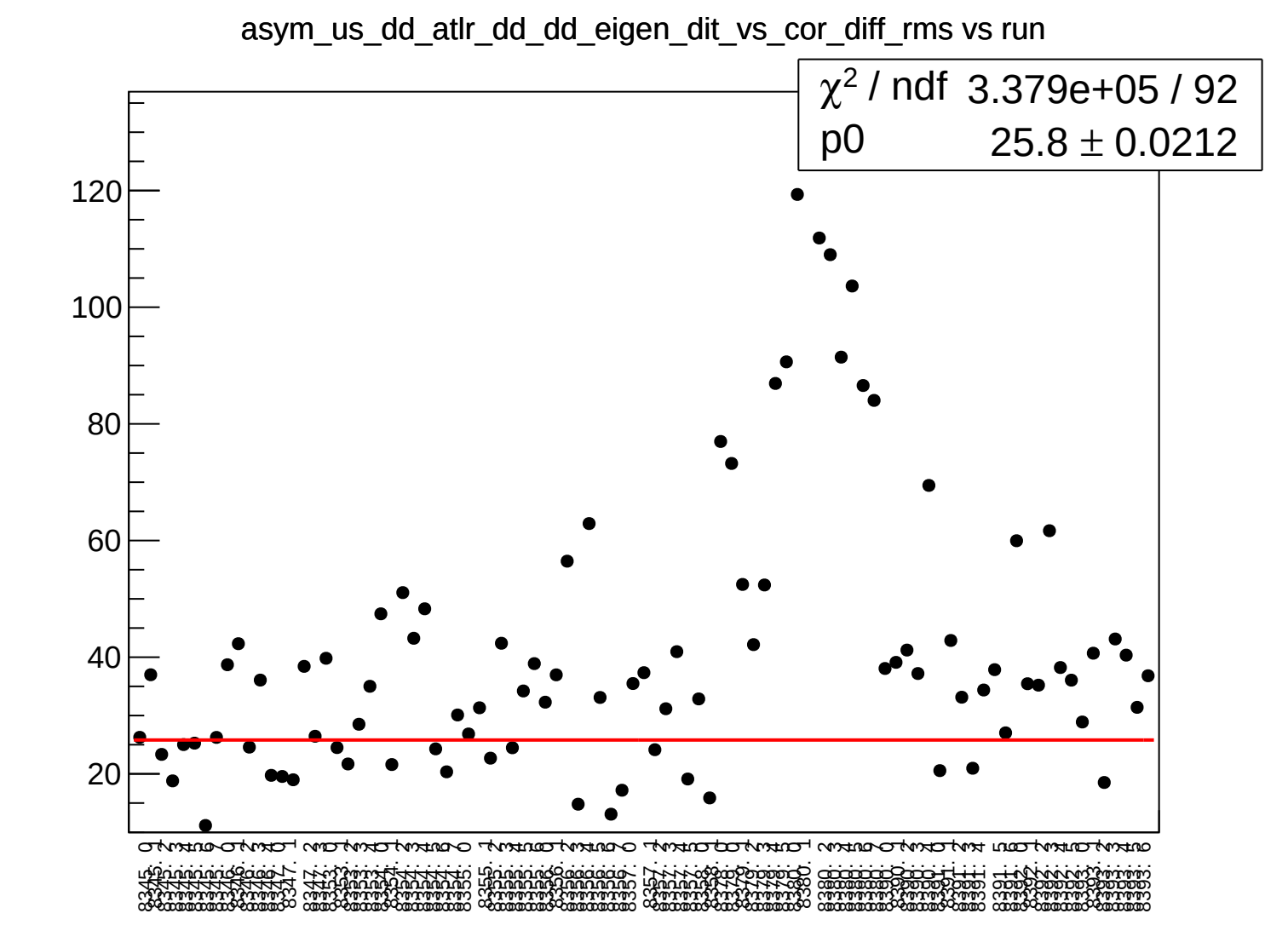

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.38e+05 / 92
p0 25.81 ± 0.0212
120
100
80
60
40
20

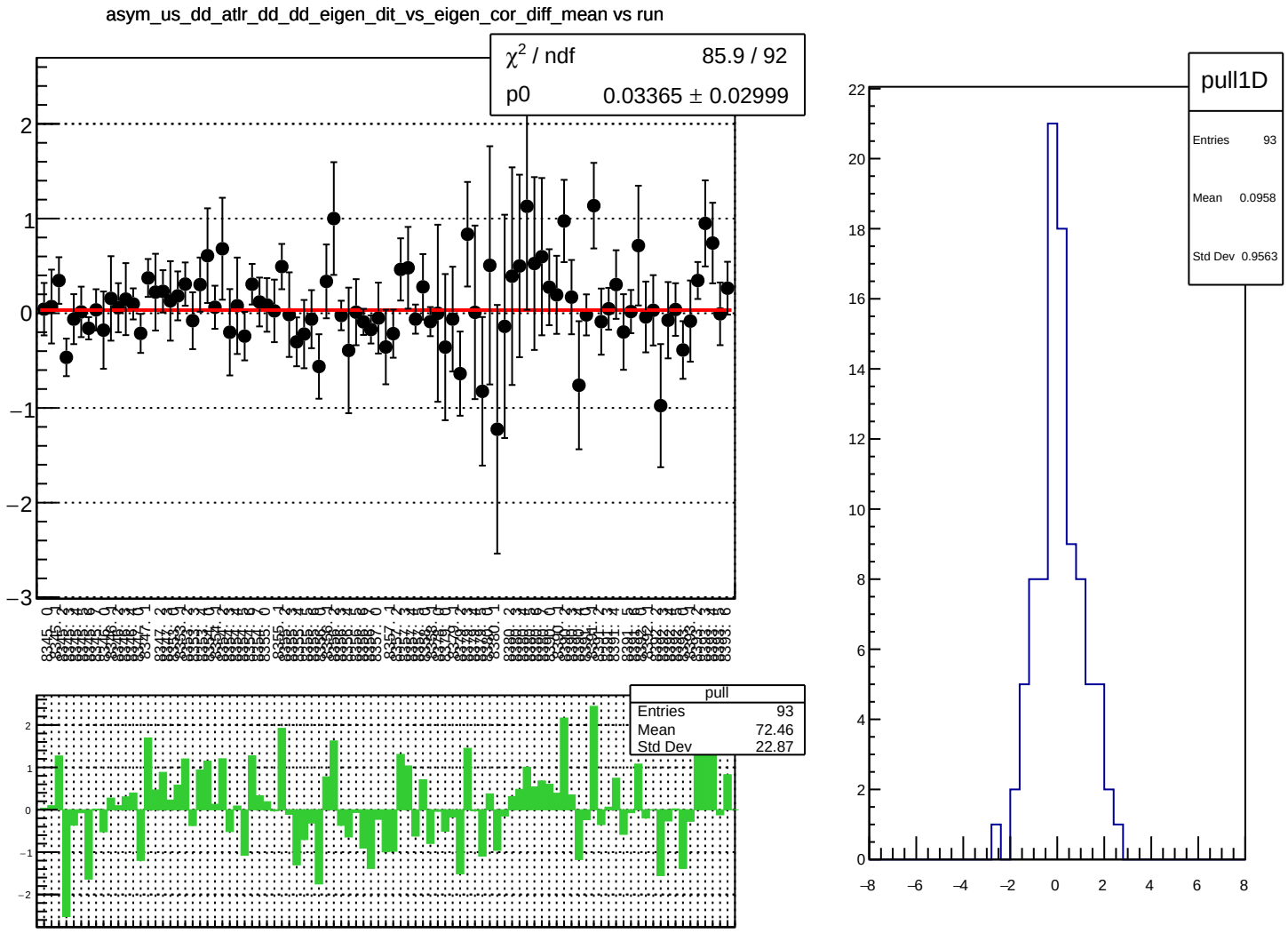

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 116.1 / 92
p0 −1.795e−06 ± 8.269e−07
pull
Entries 93
Mean 77.36
Std Dev 18.39
pull1D
Entries 93
Mean −0.2514
Std Dev 1.089

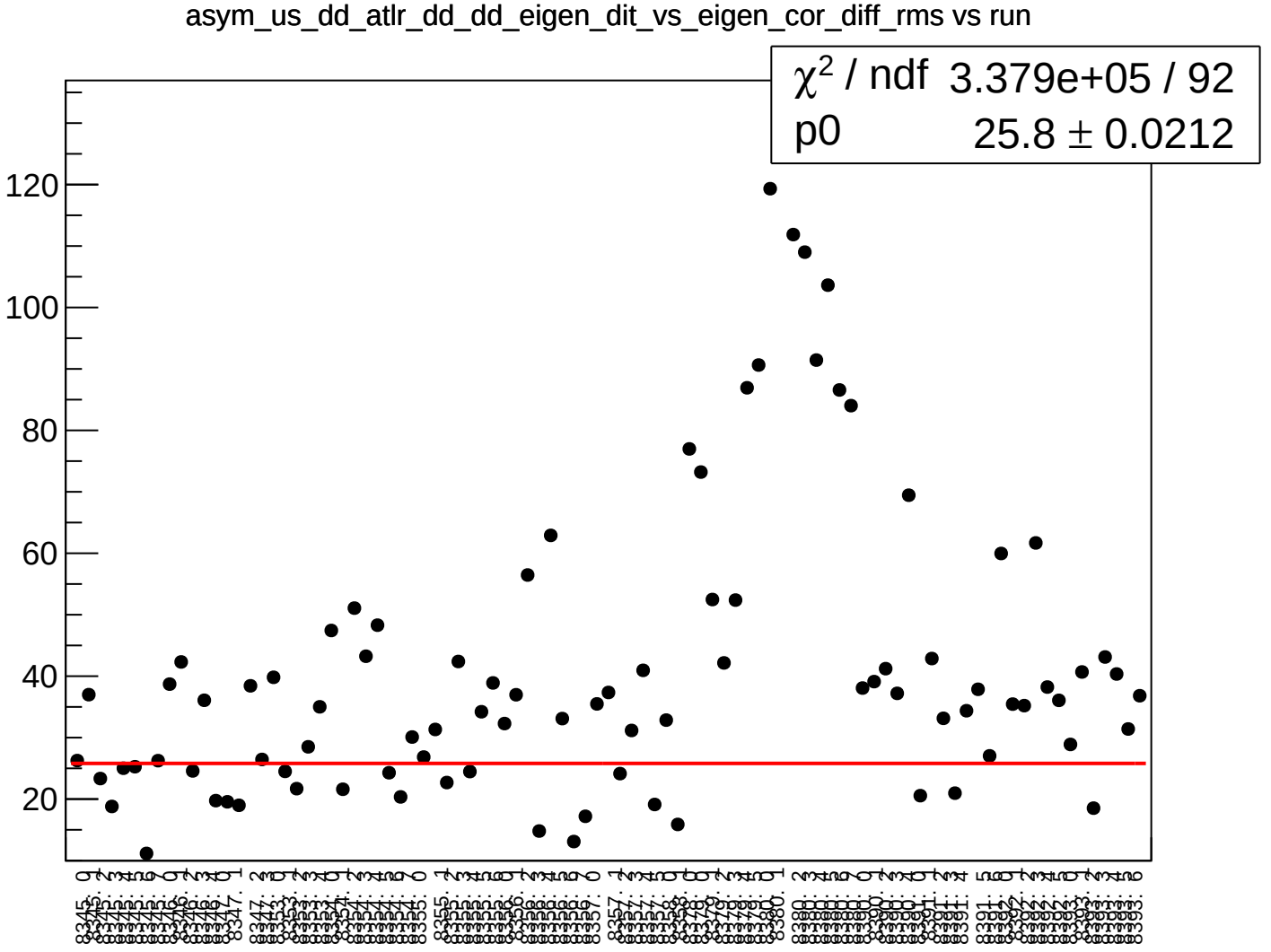

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.971e+05 / 92
p0 0.0006463 ± 5.847e−07
0.012
0.01
0.008
0.006
0.004
0.002

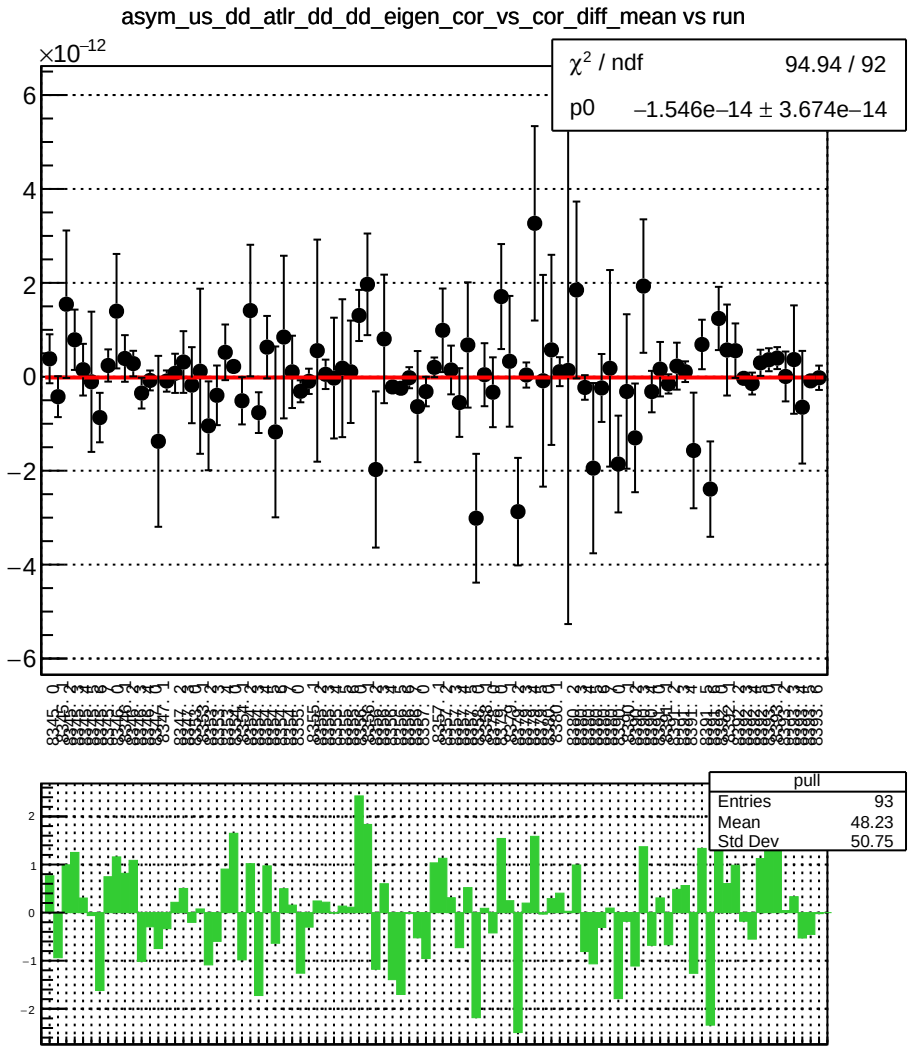

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.9 / 92
p0 0.03365 ± 0.02999
pull
Entries 93
Mean 72.46
Std Dev 22.87

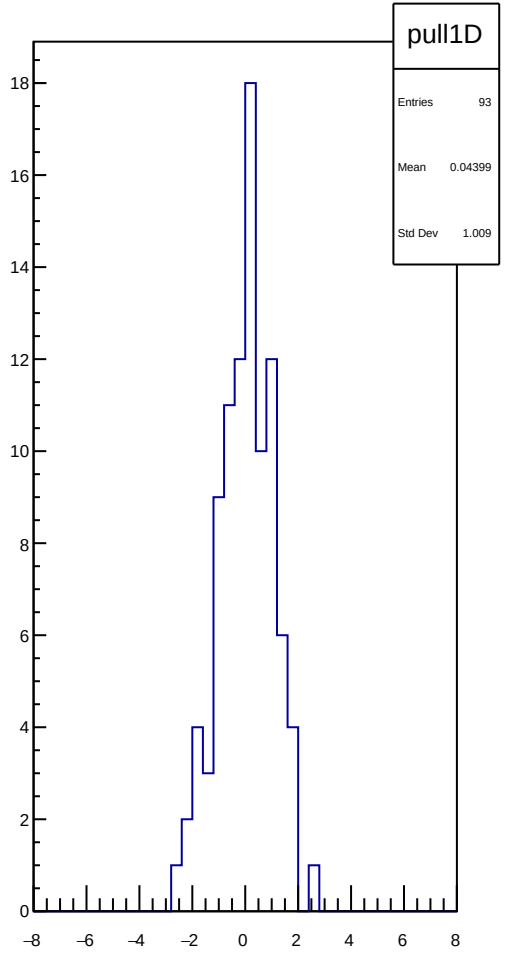

pull1D
Entries 93
Mean 0.0958
Std Dev 0.9563

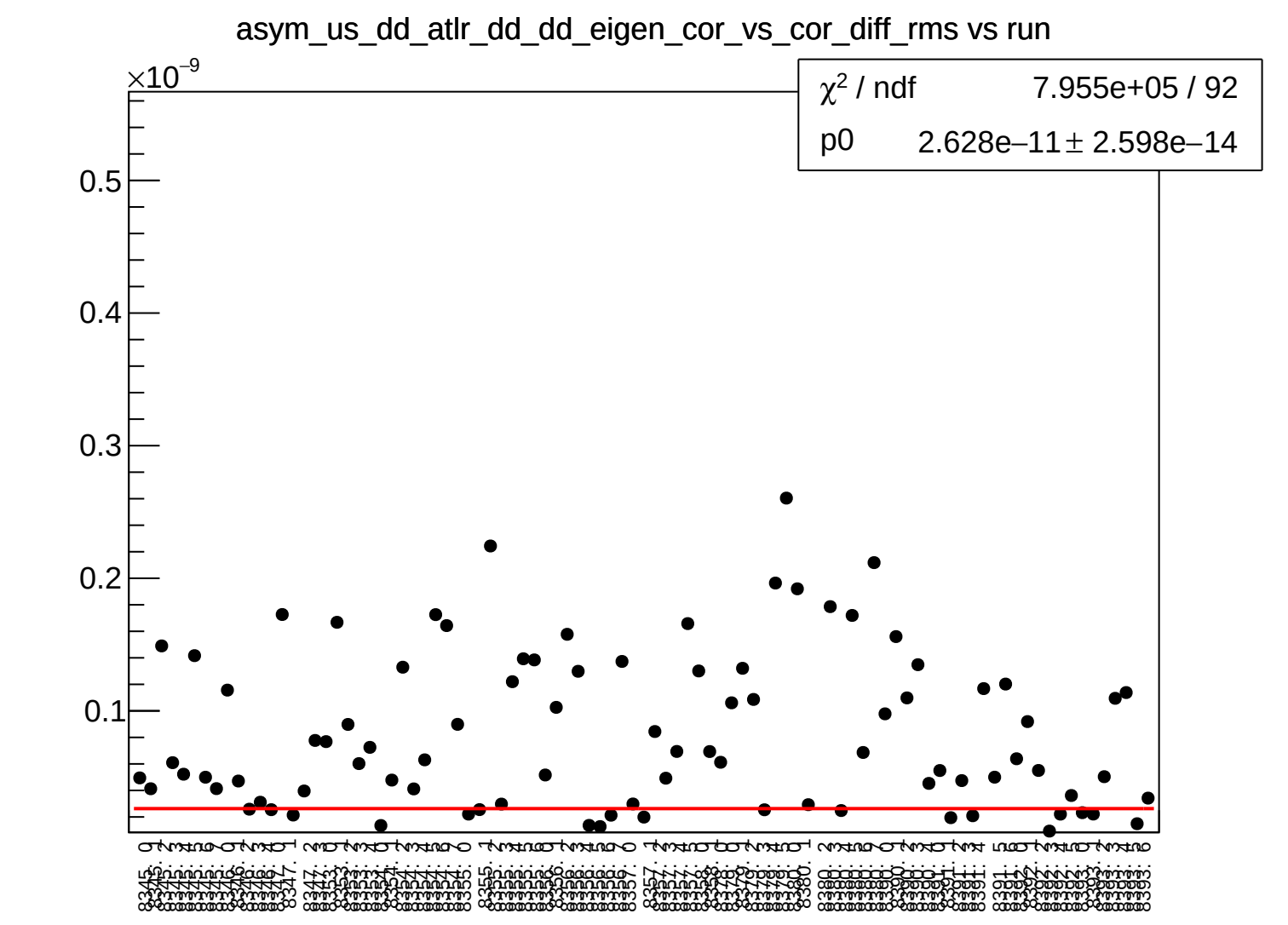

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.379e+05 / 92
p0 25.8 ± 0.0212
120
100
80
60
40
20

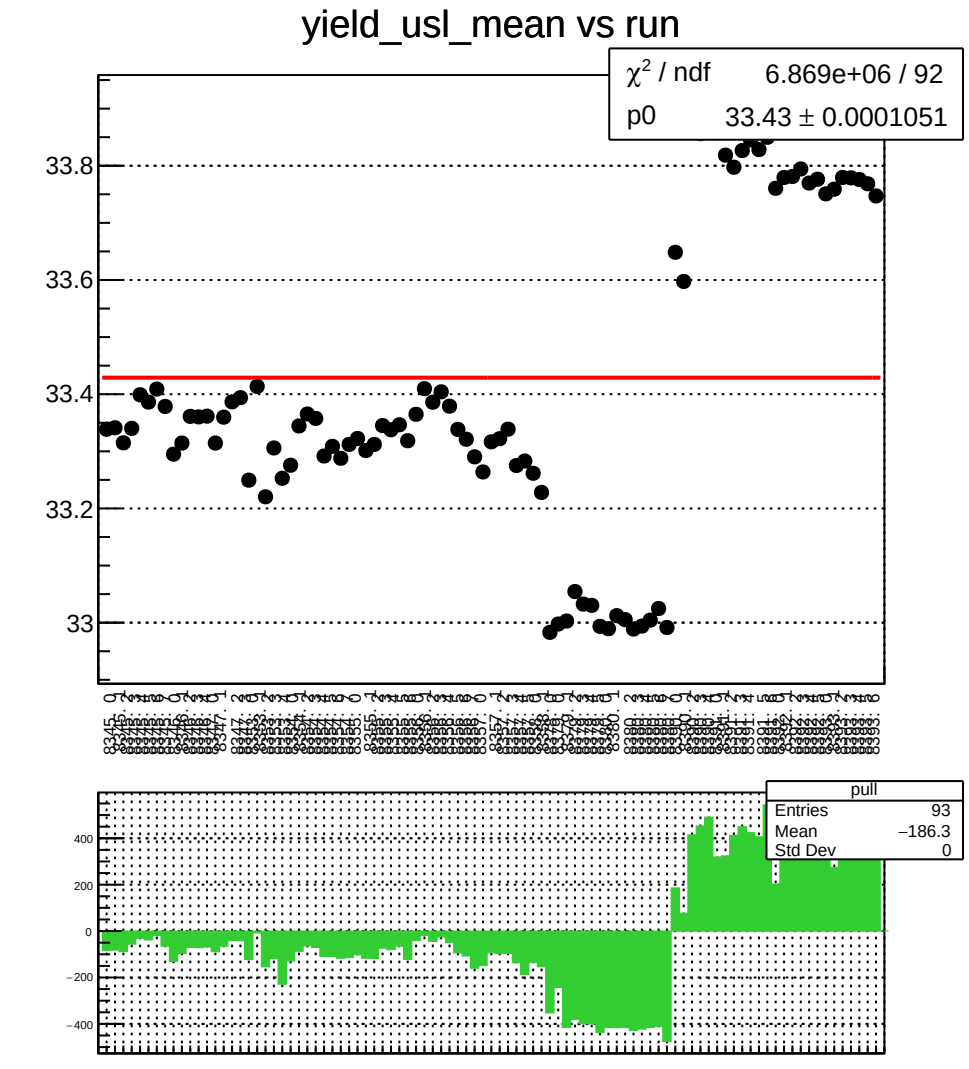

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.9 / 92
p0 0.03365 ± 0.02999
pull
Entries 93
Mean 72.46
Std Dev 22.87
pull1D
Entries 93
Mean 0.0958
Std Dev 0.9563

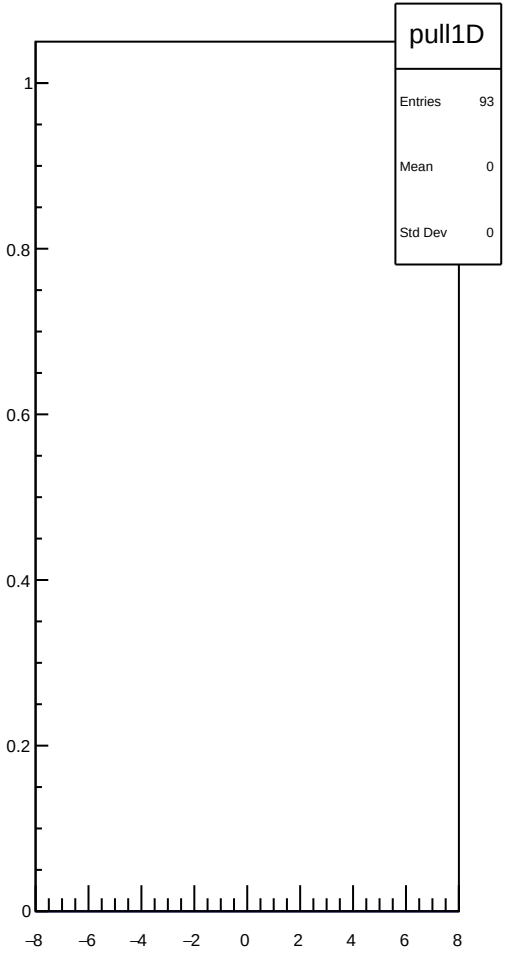

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.379e+05 / 92
p0 25.8 ± 0.0212
120
100
80
60
40
20

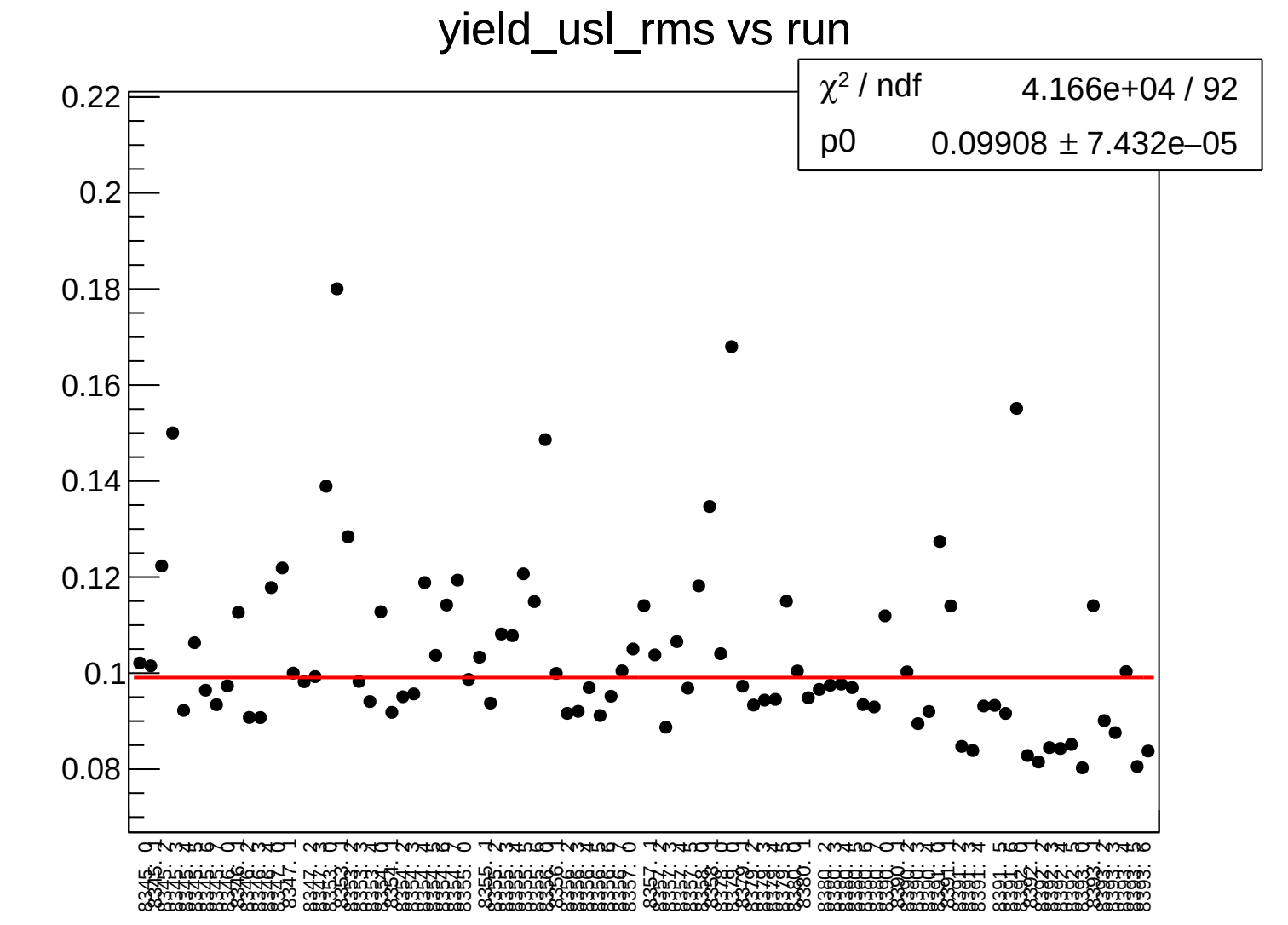

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.94 / 92
p0 −1.546e−14 ± 3.674e−14
pull
Entries 93
Mean 48.23
Std Dev 50.75

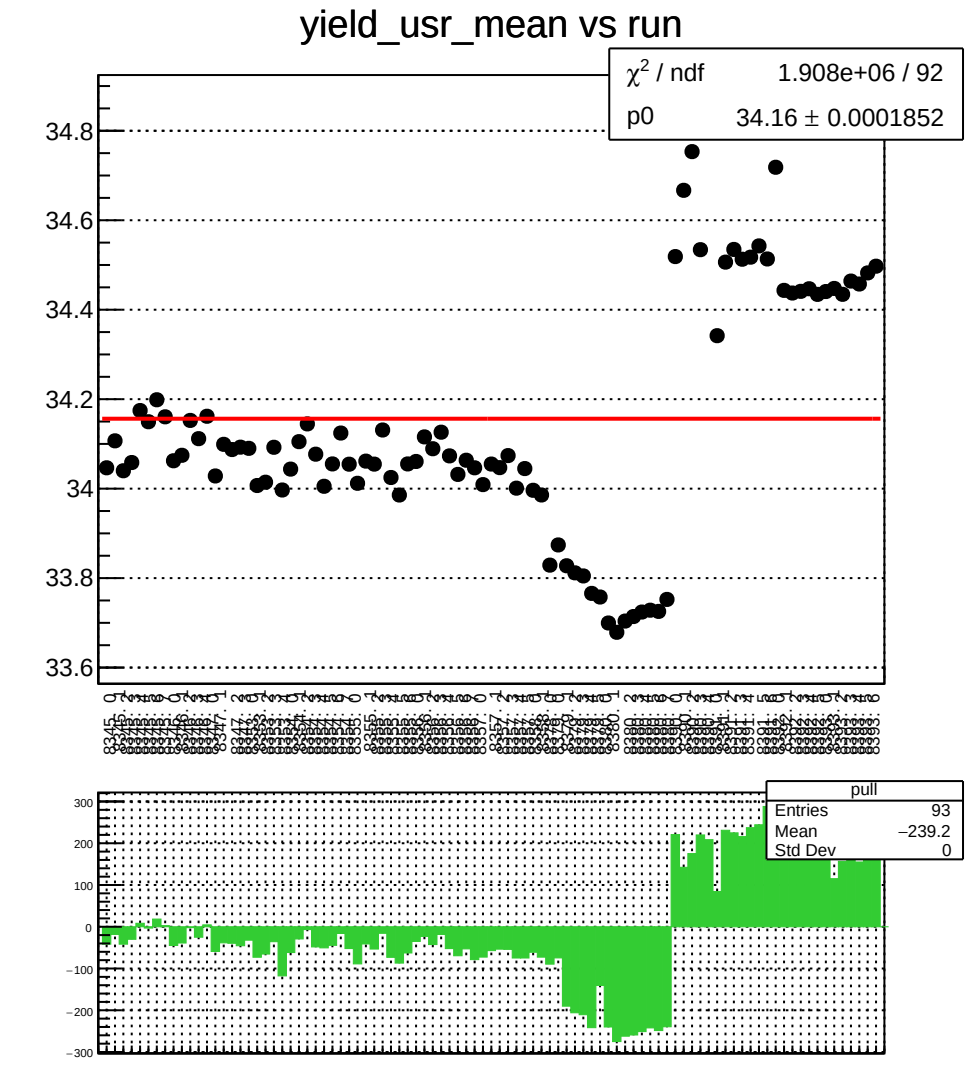

pull1D
Entries 93
Mean 0.04399
Std Dev 1.009

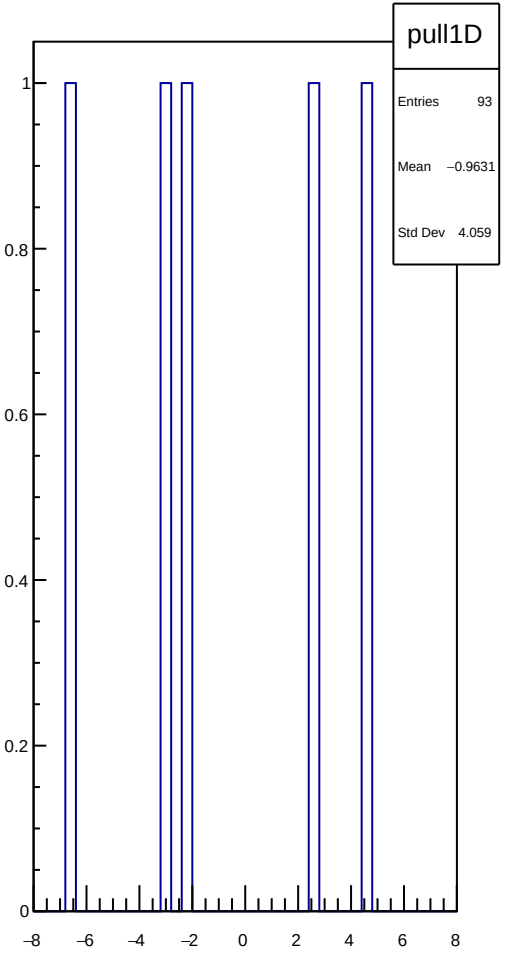

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.955e+05 / 92
p0 2.628e−11 ± 2.598e−14
0.5
0.4
0.3
0.2
0.1

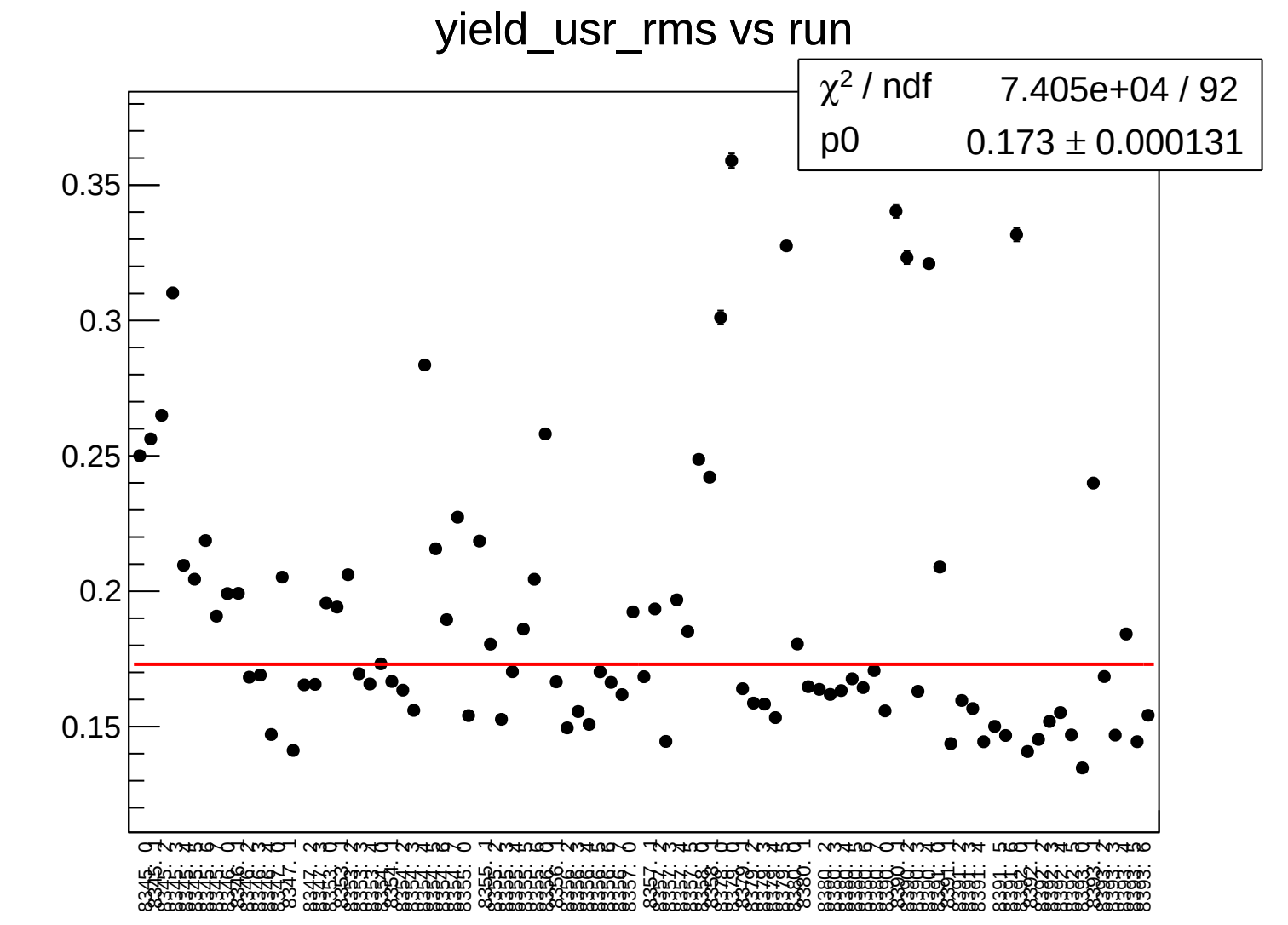

yield_usl_mean vs run
χ² / ndf 6.869e+06 / 92
p0 33.43 ± 0.0001051
33.8
33.6
33.4
33.2
33
pull
Entries 93
Mean −186.3
Std Dev 0
400
200
0
−200
−400

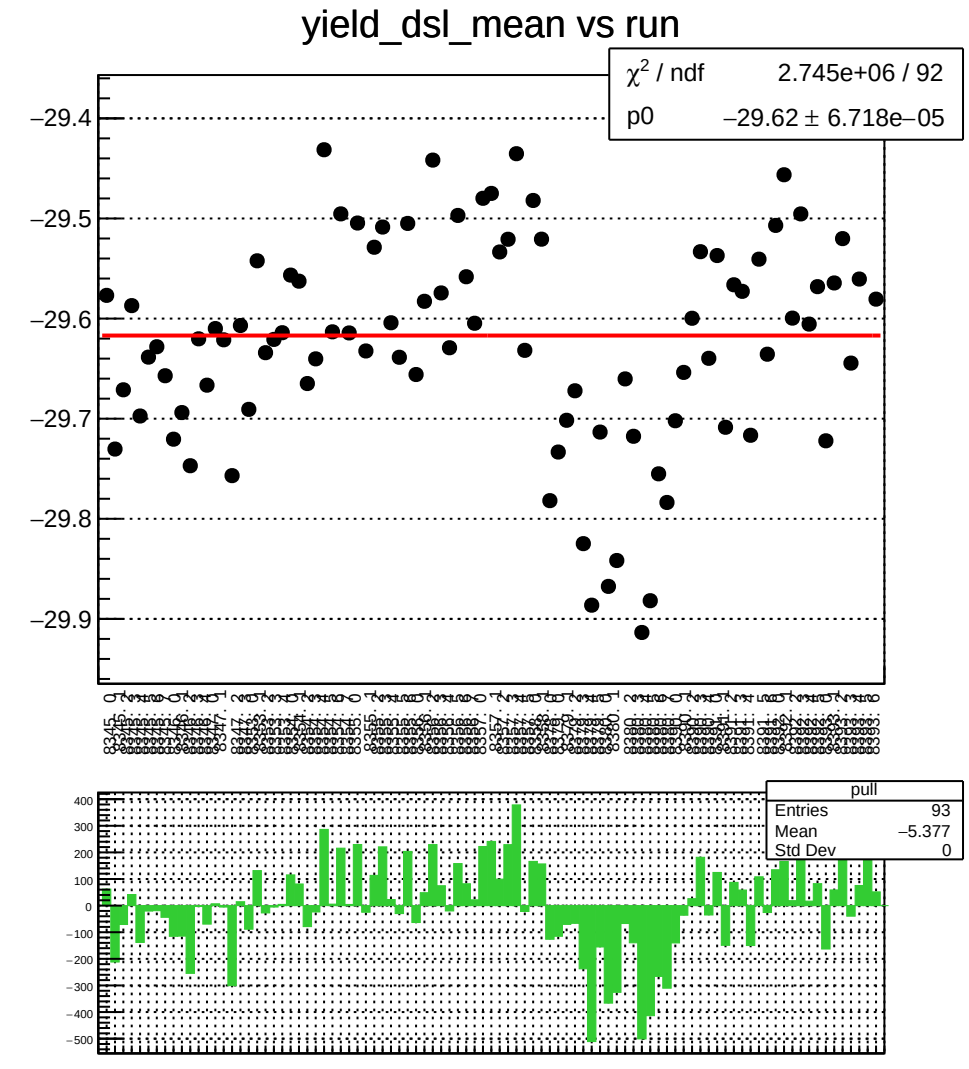

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

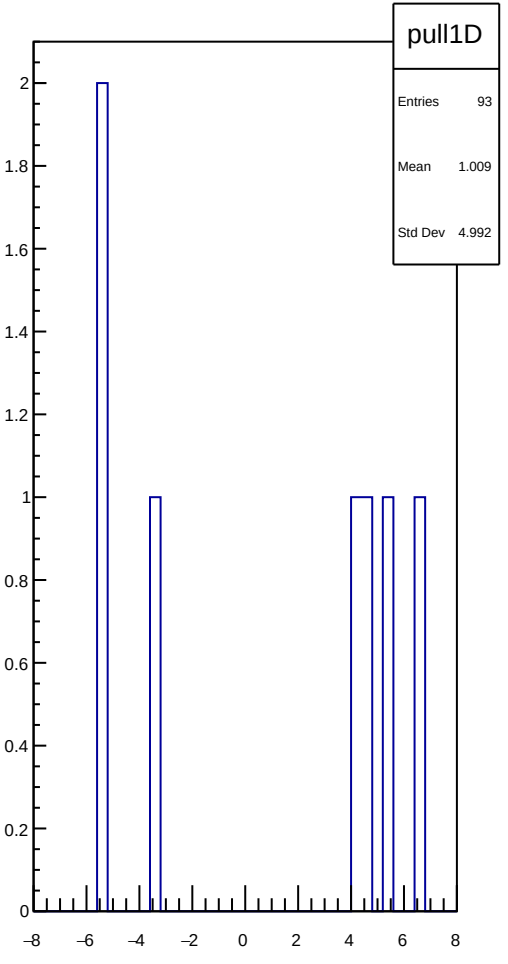

yield_usl_rms vs run
χ² / ndf 4.166e+04 / 92
p0 0.09908 ± 7.432e–05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08

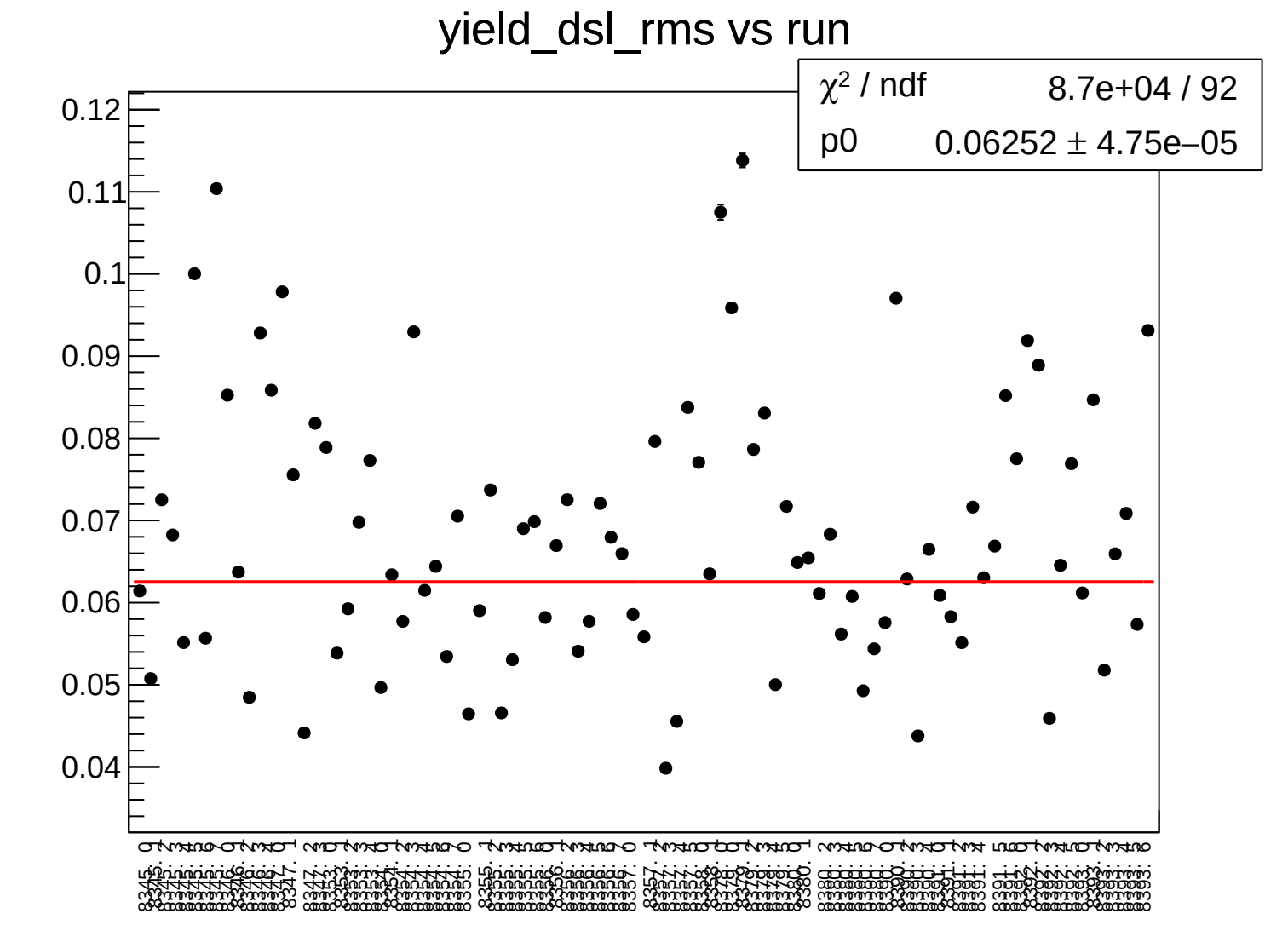

yield_usr_mean vs run
χ² / ndf 1.908e+06 / 92
p0 34.16 ± 0.0001852
34.8
34.6
34.4
34.2
34
33.8
33.6
pull
Entries 93
Mean −239.2
Std Dev 0
300
200
100
0
−100
−200
−300

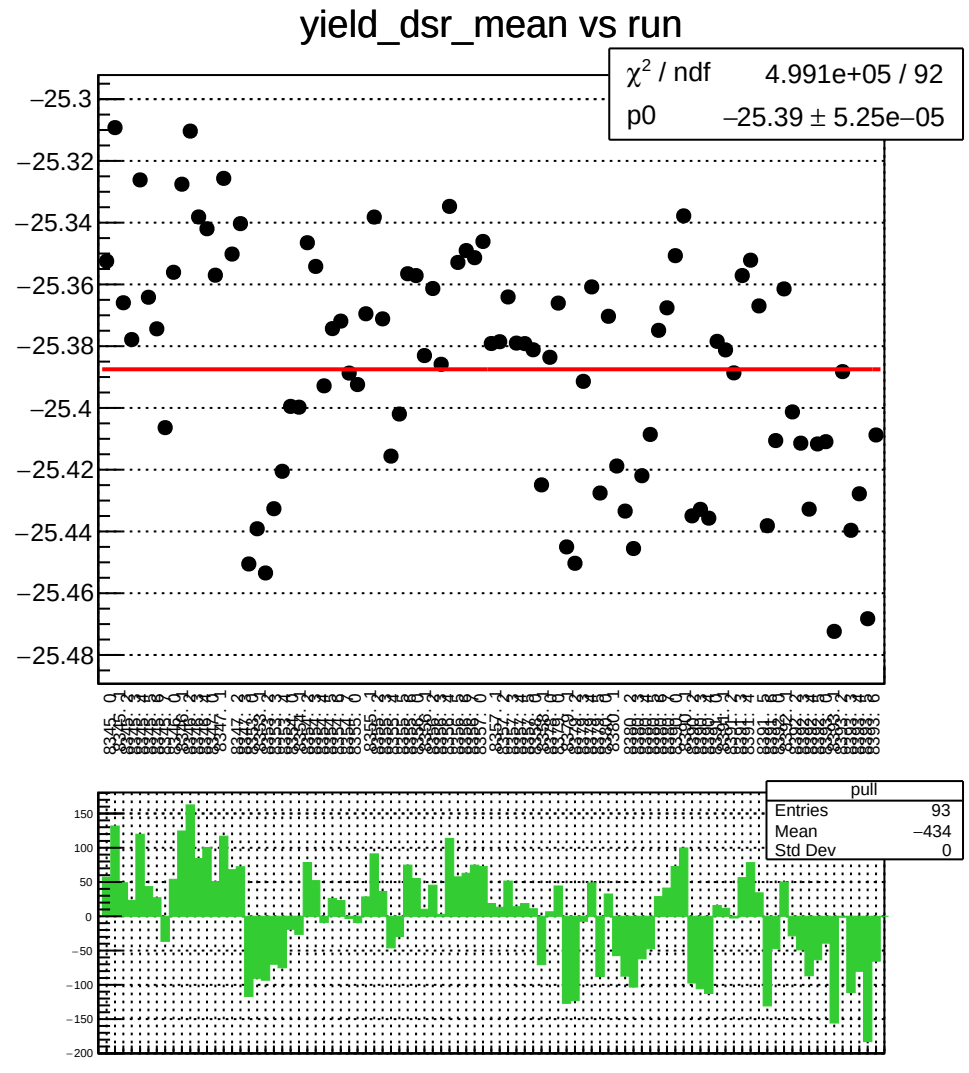

pull1D
Entries 93
Mean −0.9631
Std Dev 4.059
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

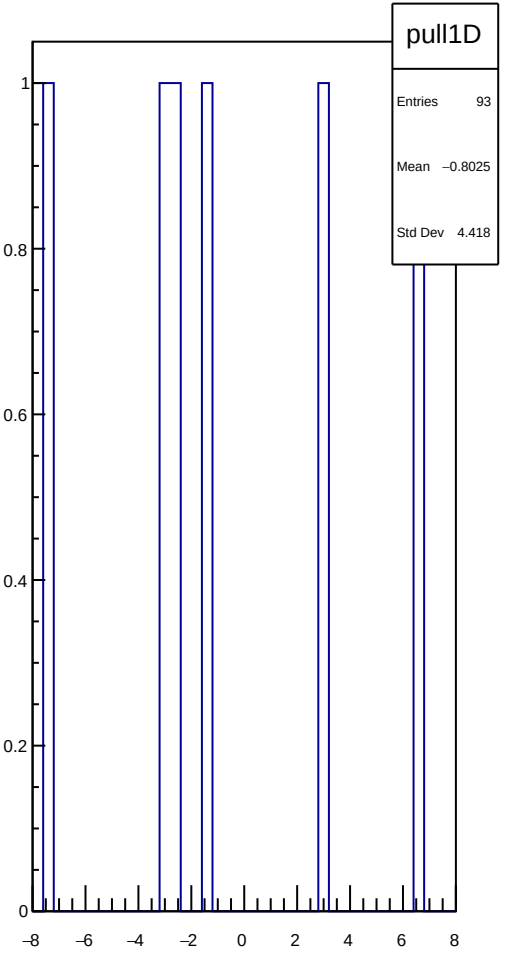

yield_usr_rms vs run
χ² / ndf 7.405e+04 / 92
p0 0.173 ± 0.000131
0.35
0.3
0.25
0.2
0.15

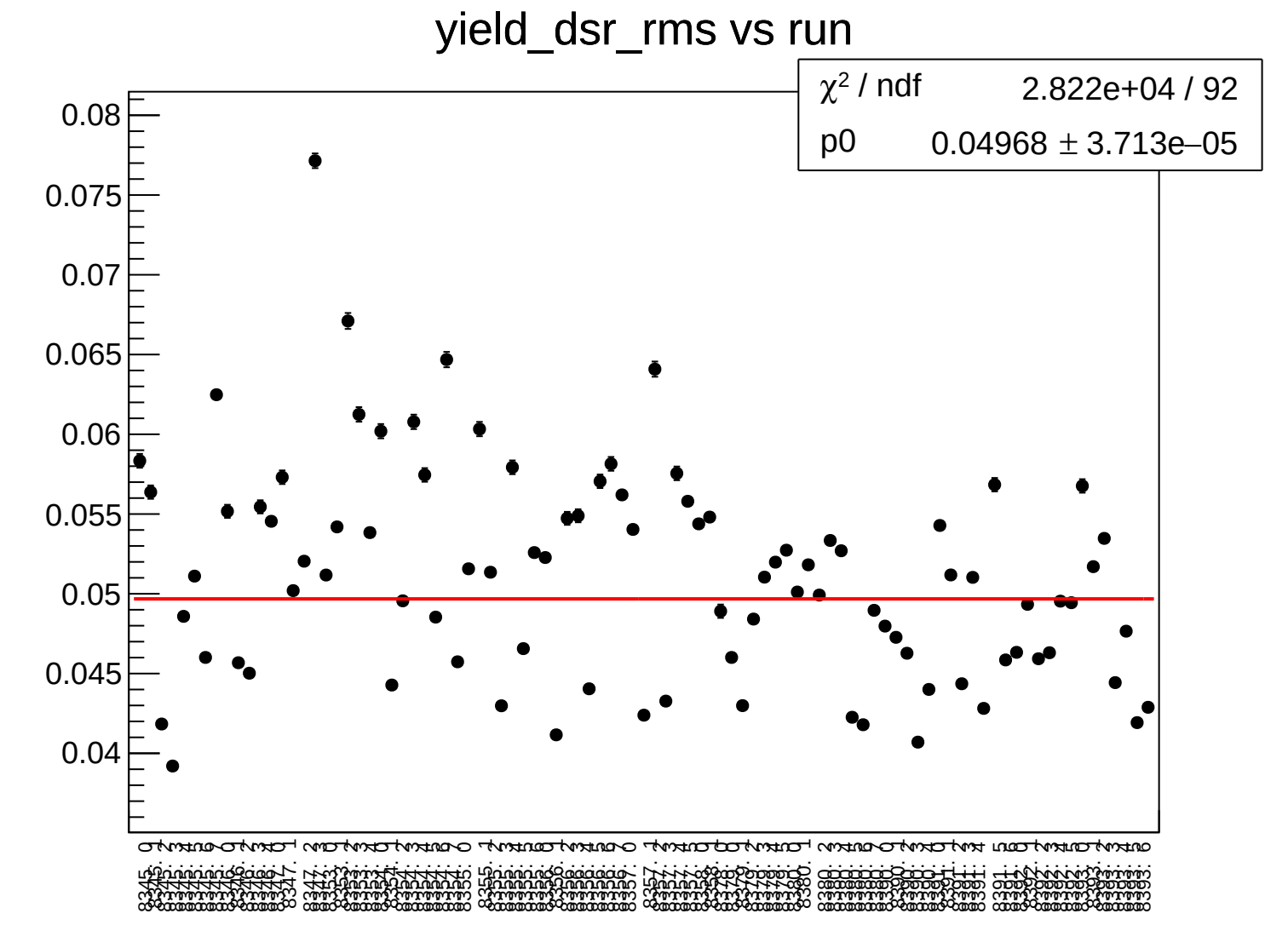

yield_dsl_mean vs run
χ² / ndf 2.745e+06 / 92
p0 −29.62 ± 6.718e−05
−29.4
−29.5
−29.6
−29.7
−29.8
−29.9
pull
Entries 93
Mean −5.377
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400
−500

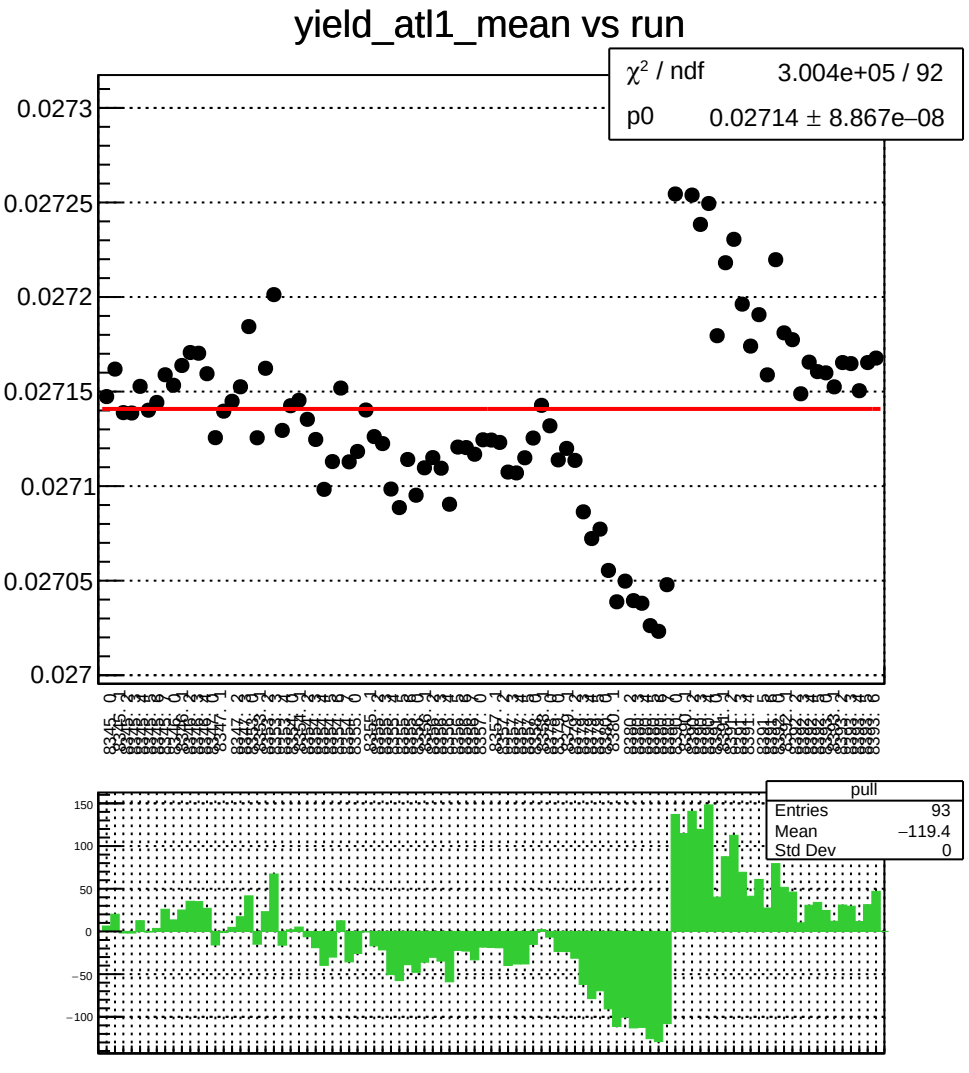

pull1D
Entries 93
Mean 1.009
Std Dev 4.992
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

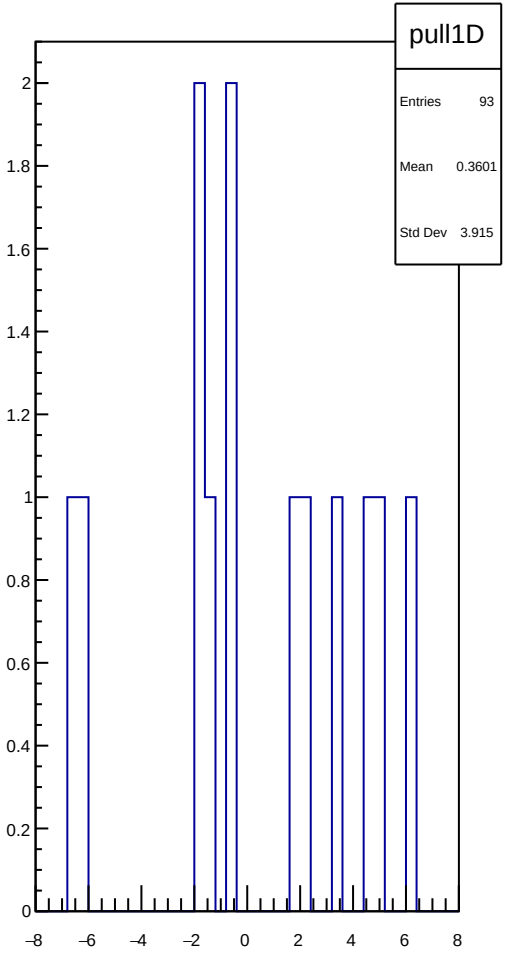

yield_dsl_rms vs run
χ² / ndf 8.7e+04 / 92
p0 0.06252 ± 4.75e−05
0.12
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04

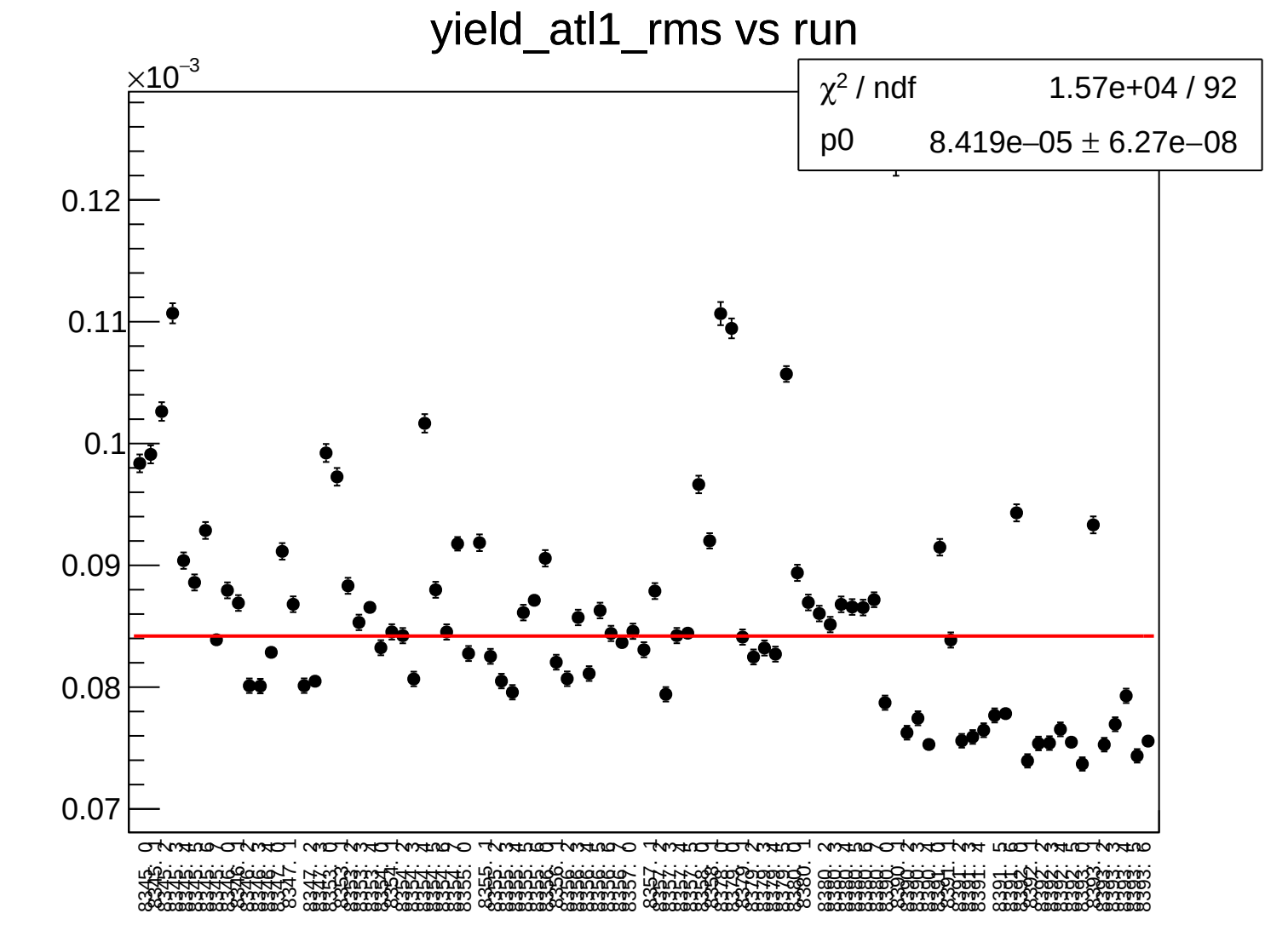

yield_dsr_mean vs run
χ² / ndf 4.991e+05 / 92
p0 −25.39 ± 5.25e−05
−25.3
−25.32
−25.34
−25.36
−25.38
−25.4
−25.42
−25.44
−25.46
−25.48
pull
Entries 93
Mean −434
Std Dev 0
150
100
50
0
−50
−100
−150
−200

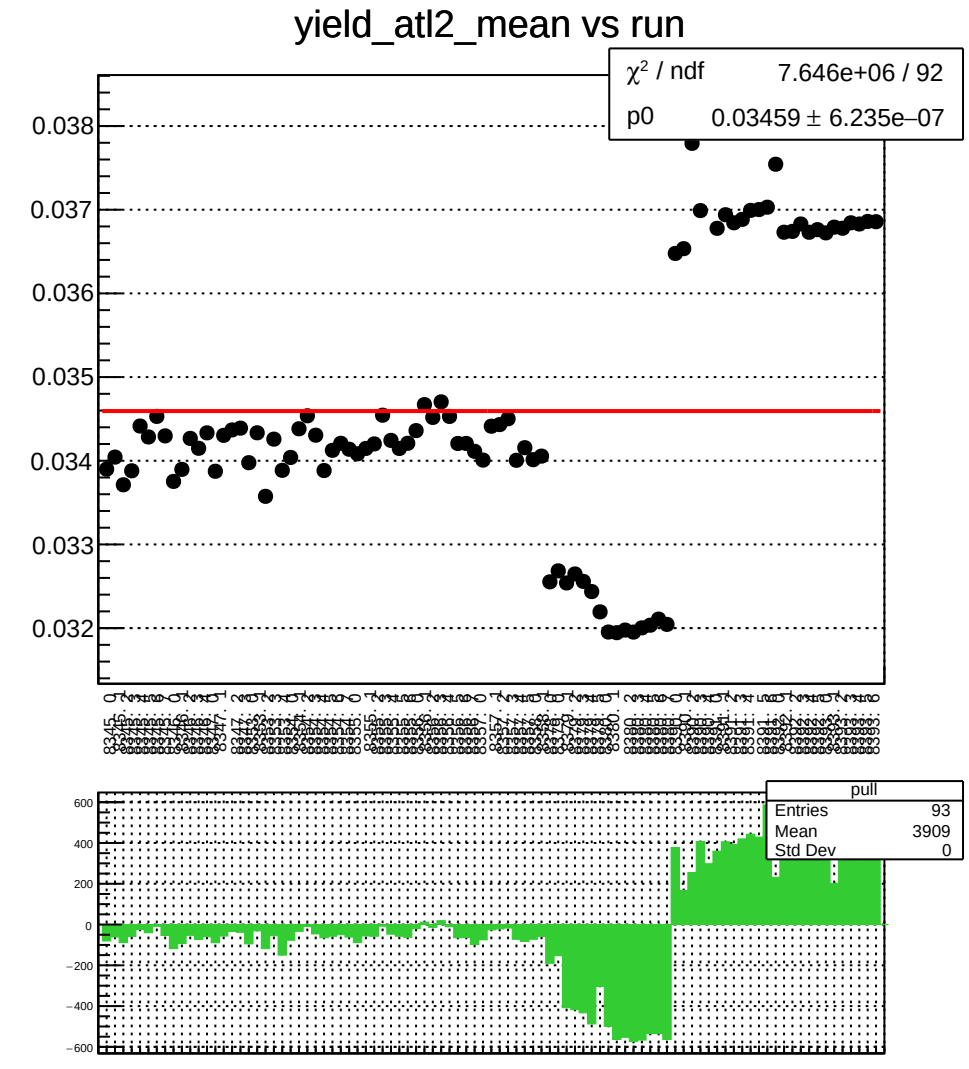

pull1D
Entries 93
Mean −0.8025
Std Dev 4.418
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

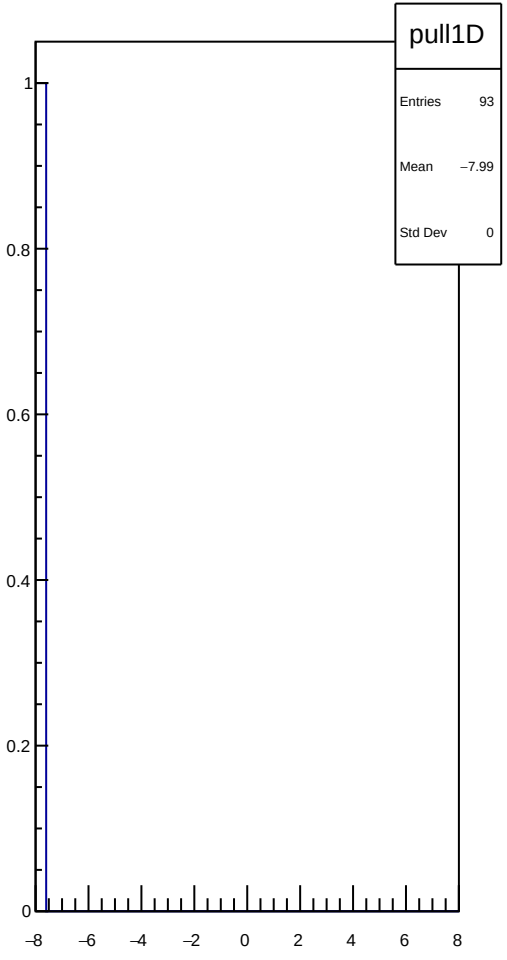

yield_dsr_rms vs run
χ² / ndf 2.822e+04 / 92
p0 0.04968 ± 3.713e−05
0.08
0.075
0.07
0.065
0.06
0.055
0.05
0.045
0.04

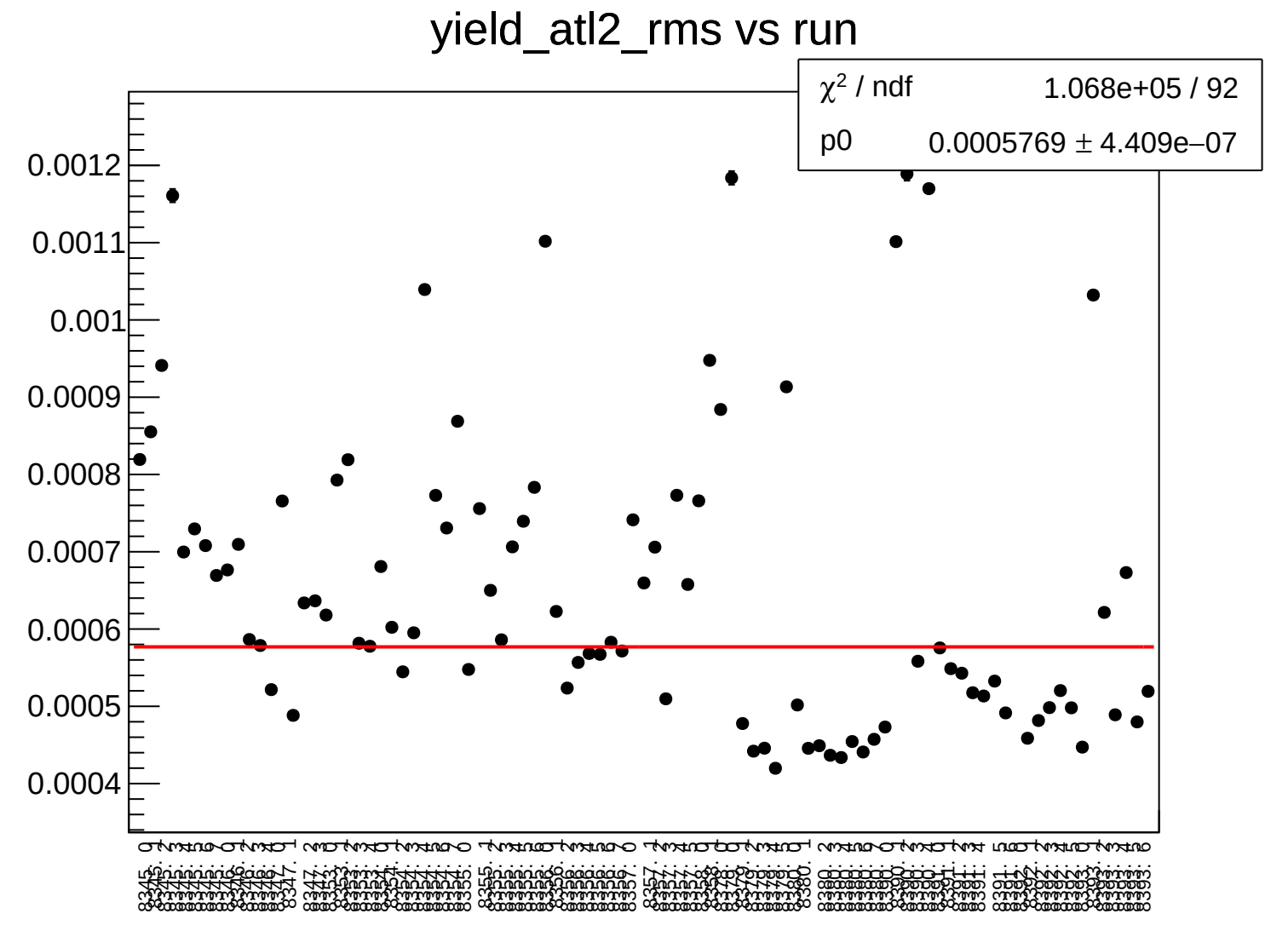

yield_atl1_mean vs run
χ² / ndf 3.004e+05 / 92
p0 0.02714 ± 8.867e−08
0.0273
0.02725
0.0272
0.02715
0.0271
0.02705
0.027
pull
Entries 93
Mean −119.4
Std Dev 0
150
100
50
0
−50
−100

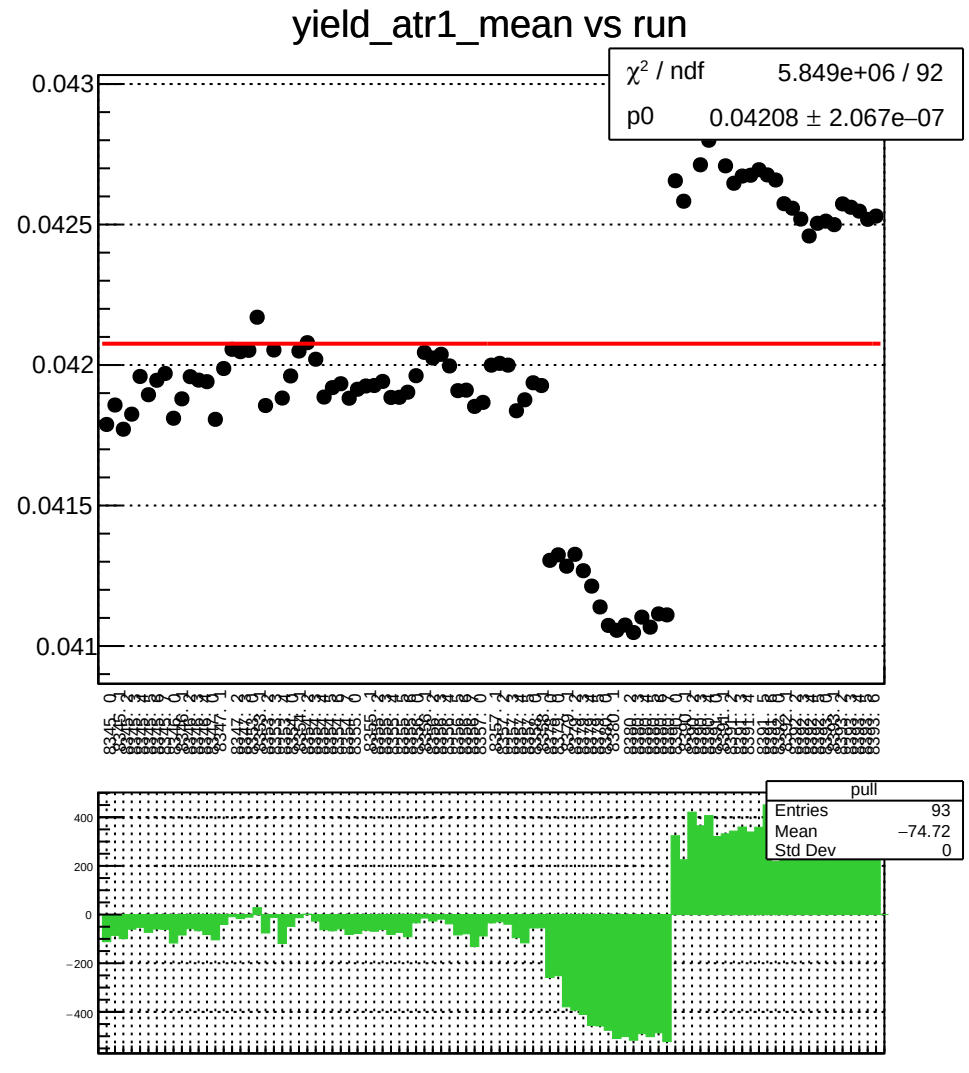

pull1D
Entries 93
Mean 0.3601
Std Dev 3.915
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

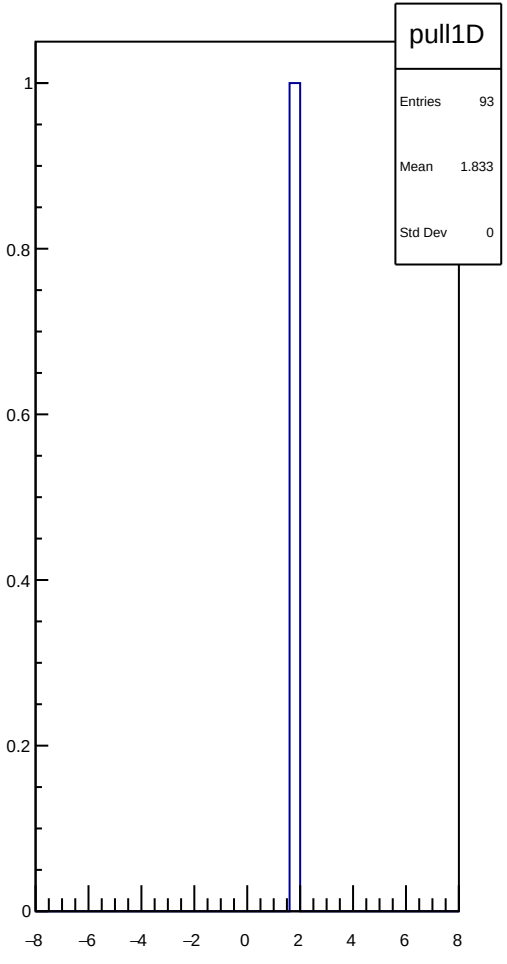

yield_atl1_rms vs run
×10⁻³
χ² / ndf 1.57e+04 / 92
p0 8.419e−05 ± 6.27e−08
0.12
0.11
0.1
0.09
0.08
0.07

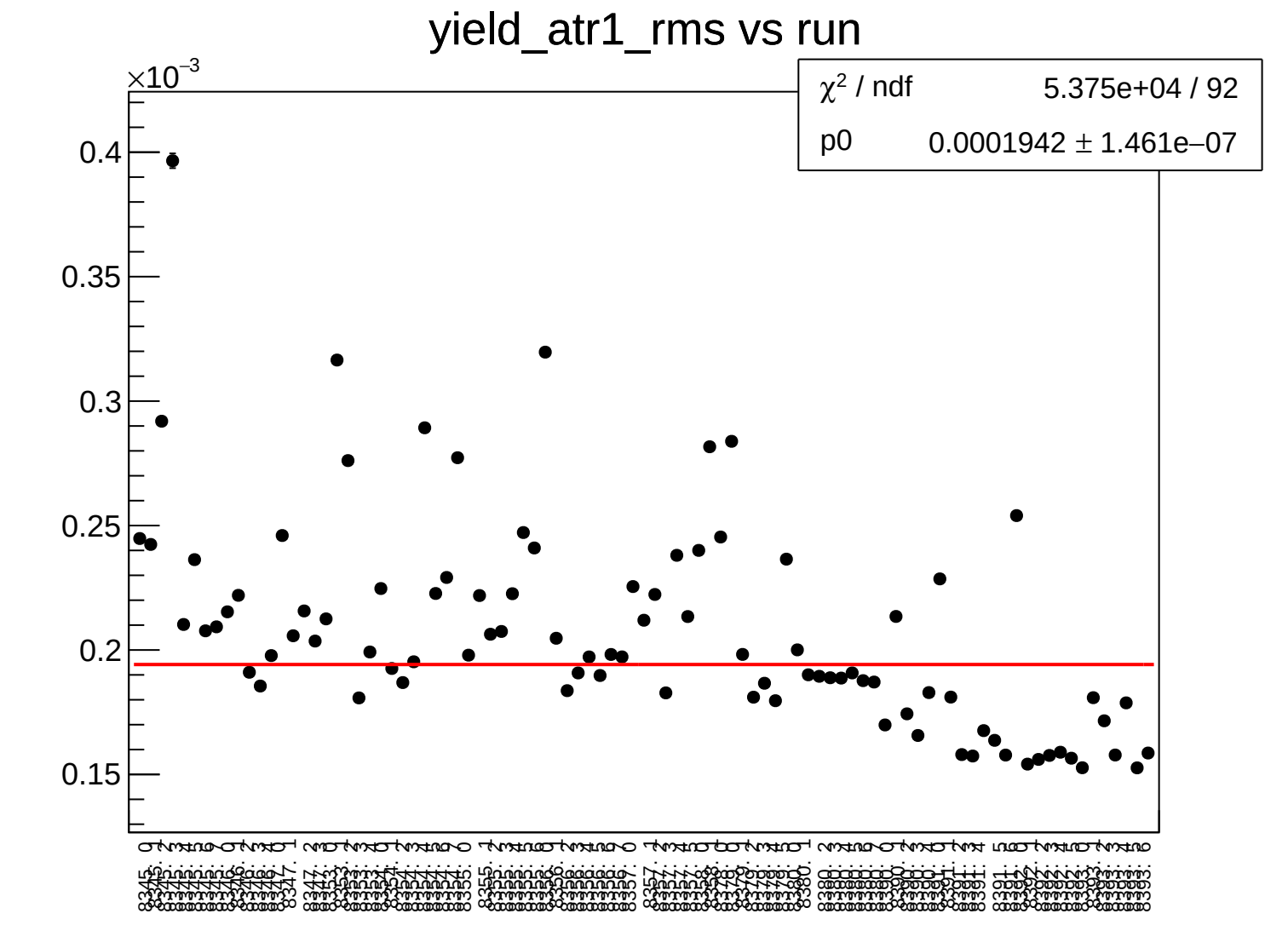

yield_atl2_mean vs run
χ² / ndf 7.646e+06 / 92
p0 0.03459 ± 6.235e−07
0.038
0.037
0.036
0.035
0.034
0.033
0.032
pull
Entries 93
Mean 3909
Std Dev 0
600
400
200
0
−200
−400
−600

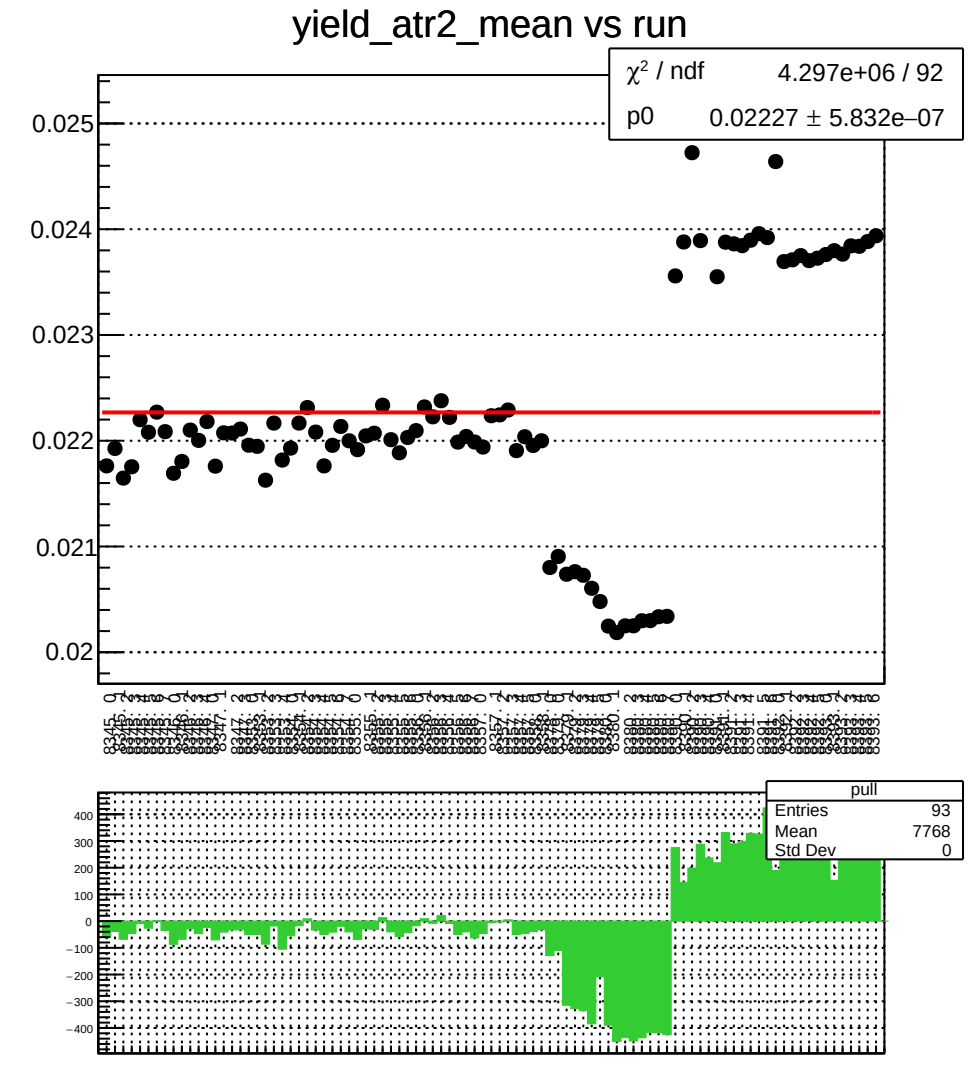

pull1D
Entries 93
Mean −7.99
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

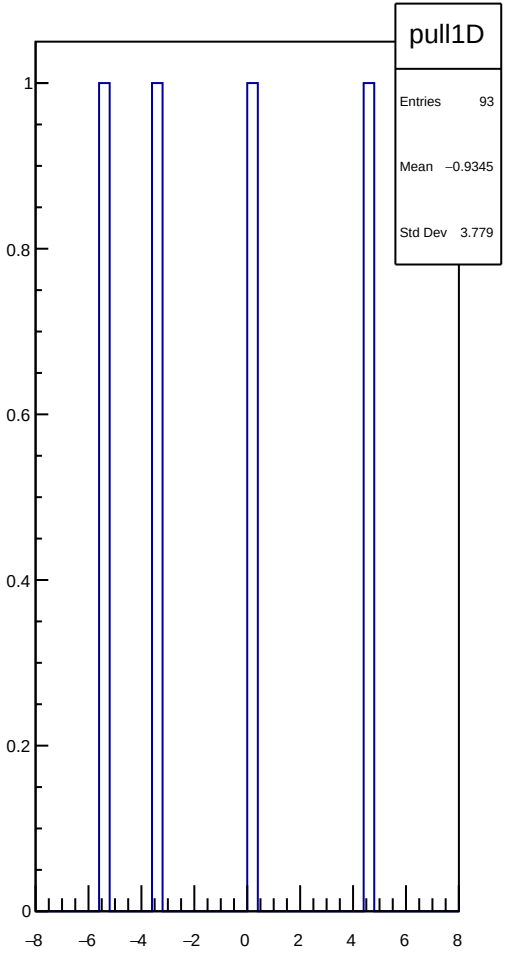

yield_atl2_rms vs run
χ² / ndf 1.068e+05 / 92
p0 0.0005769 ± 4.409e−07
0.0012
0.0011
0.001
0.0009
0.0008
0.0007
0.0006
0.0005
0.0004

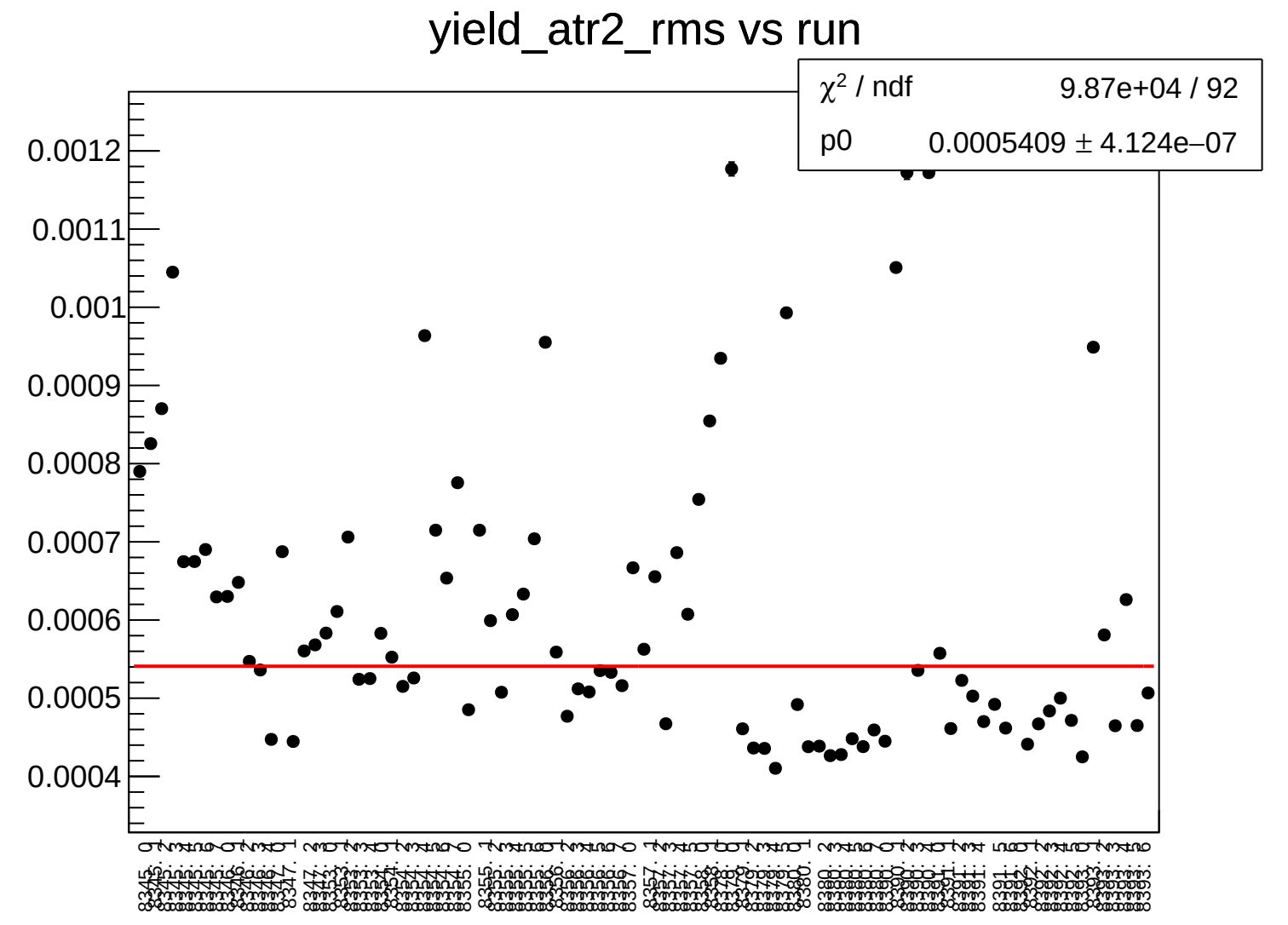

yield_atr1_mean vs run
χ² / ndf 5.849e+06 / 92
p0 0.04208 ± 2.067e−07
0.043
0.0425
0.042
0.0415
0.041
pull
Entries 93
Mean −74.72
Std Dev 0
400
200
0
−200
−400

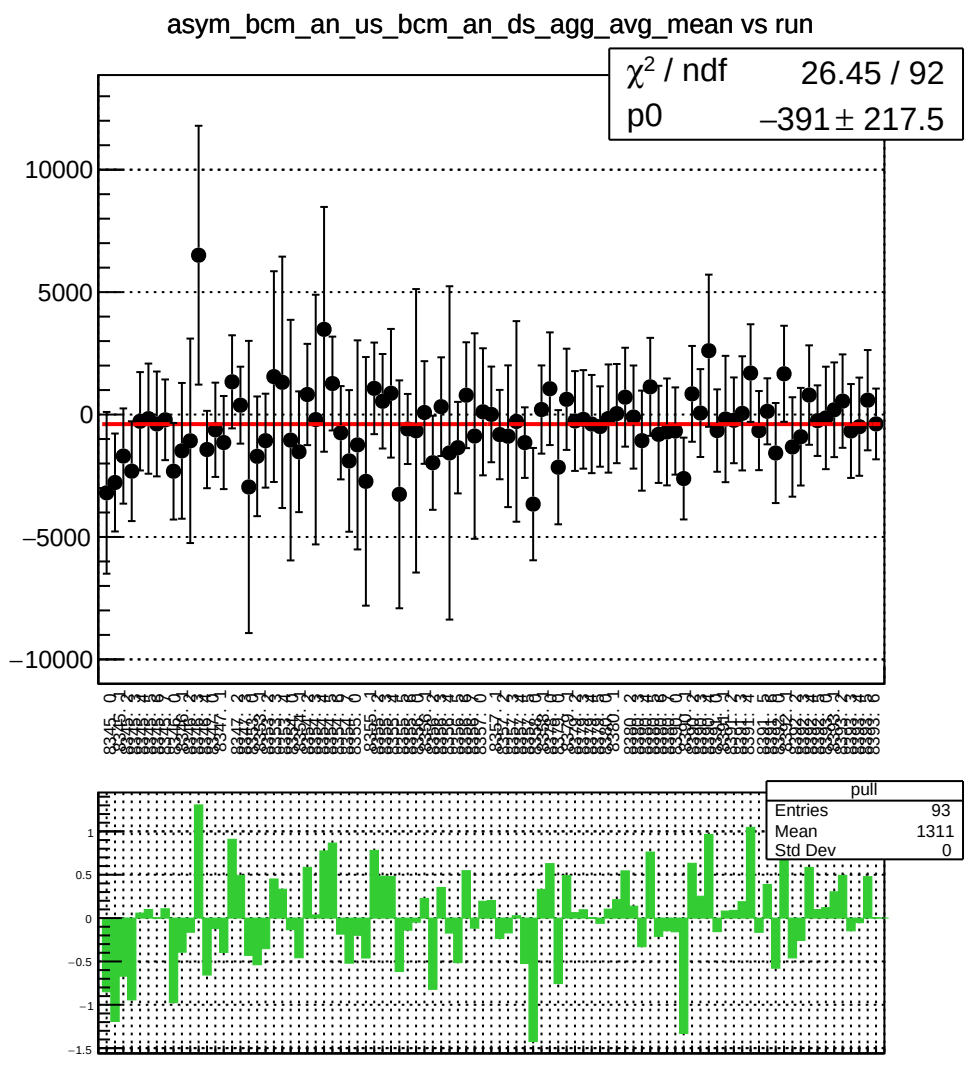

pull1D
Entries 93
Mean 1.833
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

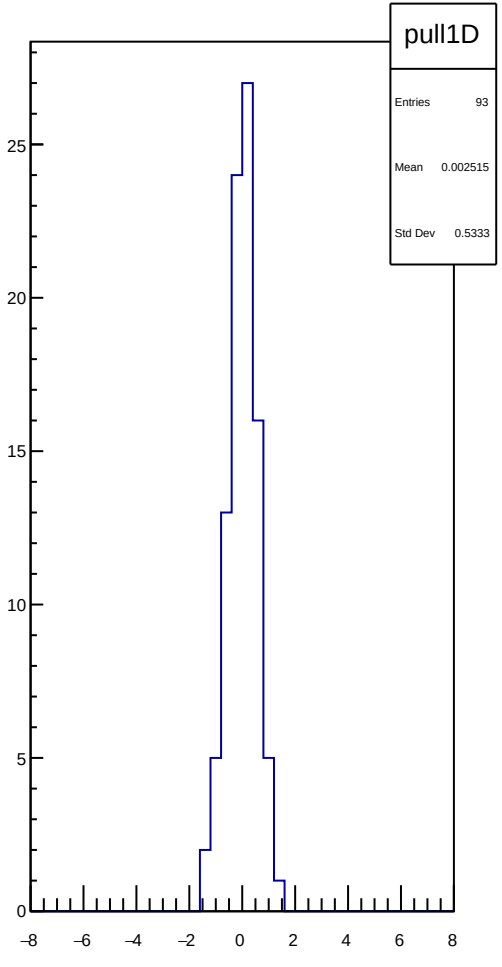

yield_atr1_rms vs run
×10⁻³
χ² / ndf 5.375e+04 / 92
p0 0.0001942 ± 1.461e−07
0.4
0.35
0.3
0.25
0.2
0.15

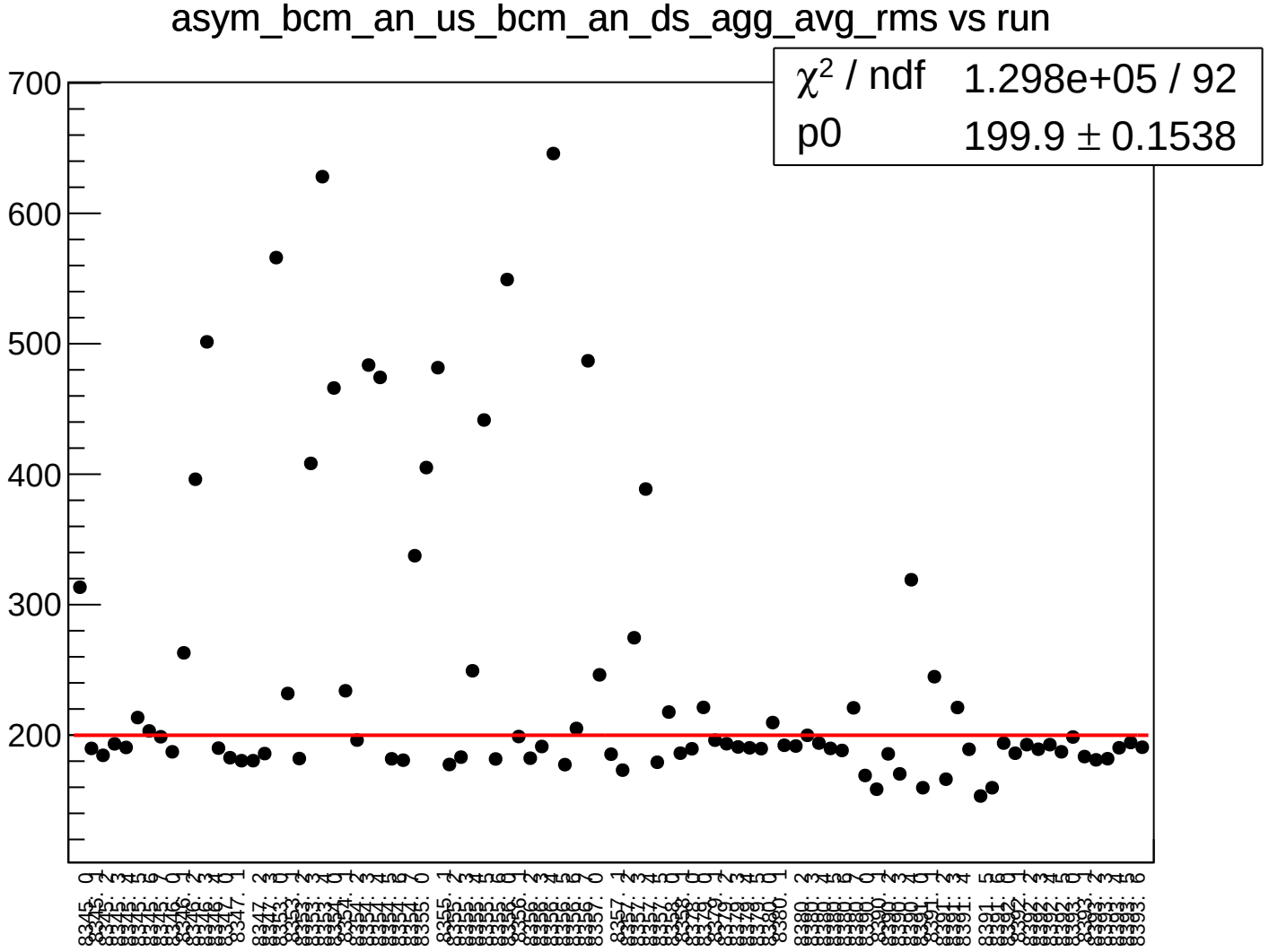

yield_atr2_mean vs run
χ² / ndf 4.297e+06 / 92
p0 0.02227 ± 5.832e−07
0.025
0.024
0.023
0.022
0.021
0.02
pull
Entries 93
Mean 7768
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400

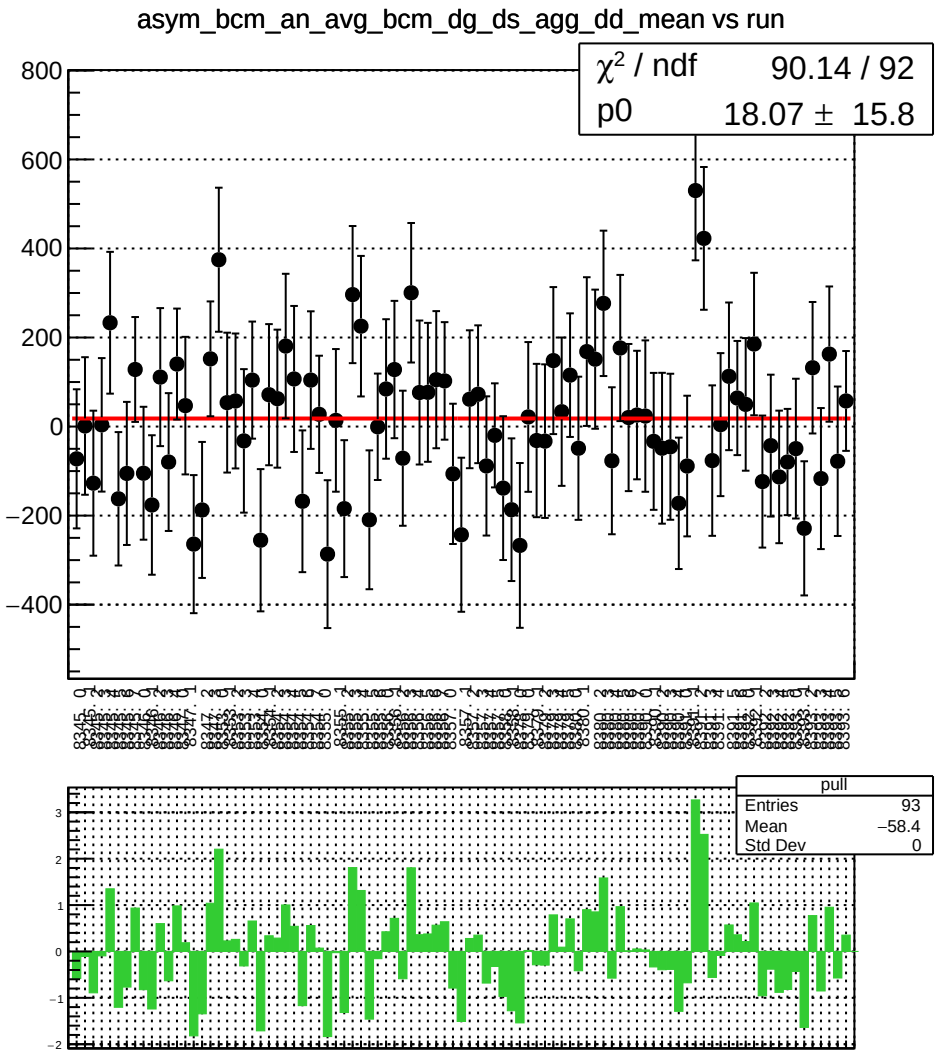

pull1D
Entries 93
Mean −0.9345
Std Dev 3.779
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

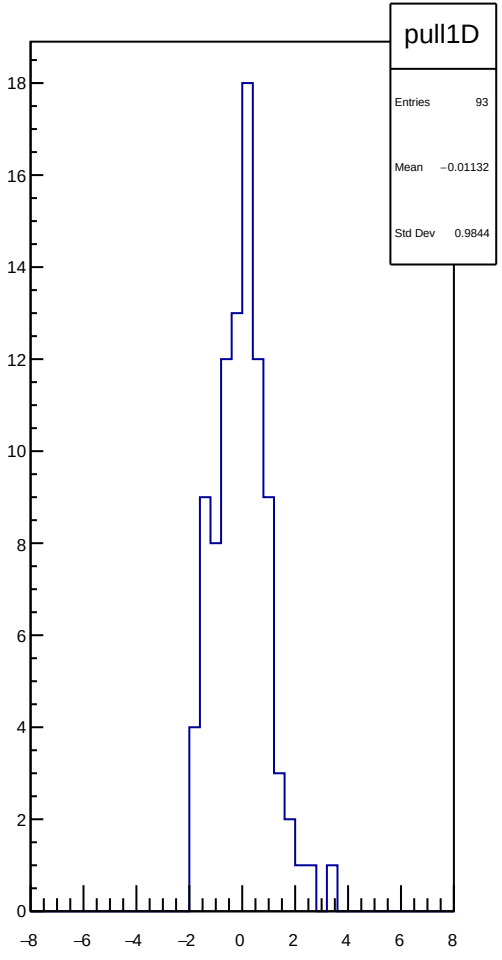

yield_atr2_rms vs run
χ² / ndf 9.87e+04 / 92
p0 0.0005409 ± 4.124e−07
0.0012
0.0011
0.001
0.0009
0.0008
0.0007
0.0006
0.0005
0.0004

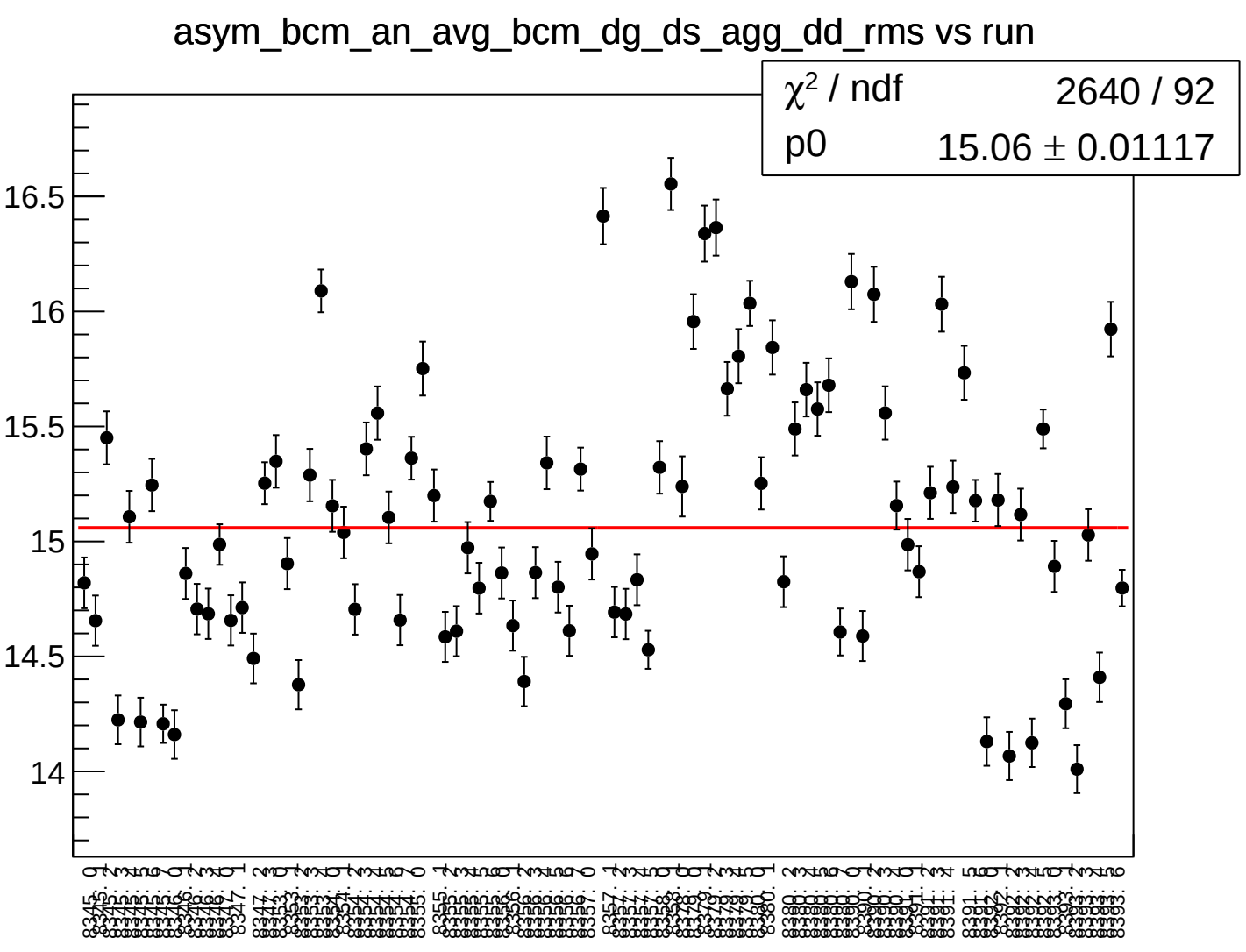

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 26.45 / 92
p0 −391 ± 217.5
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 1311
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

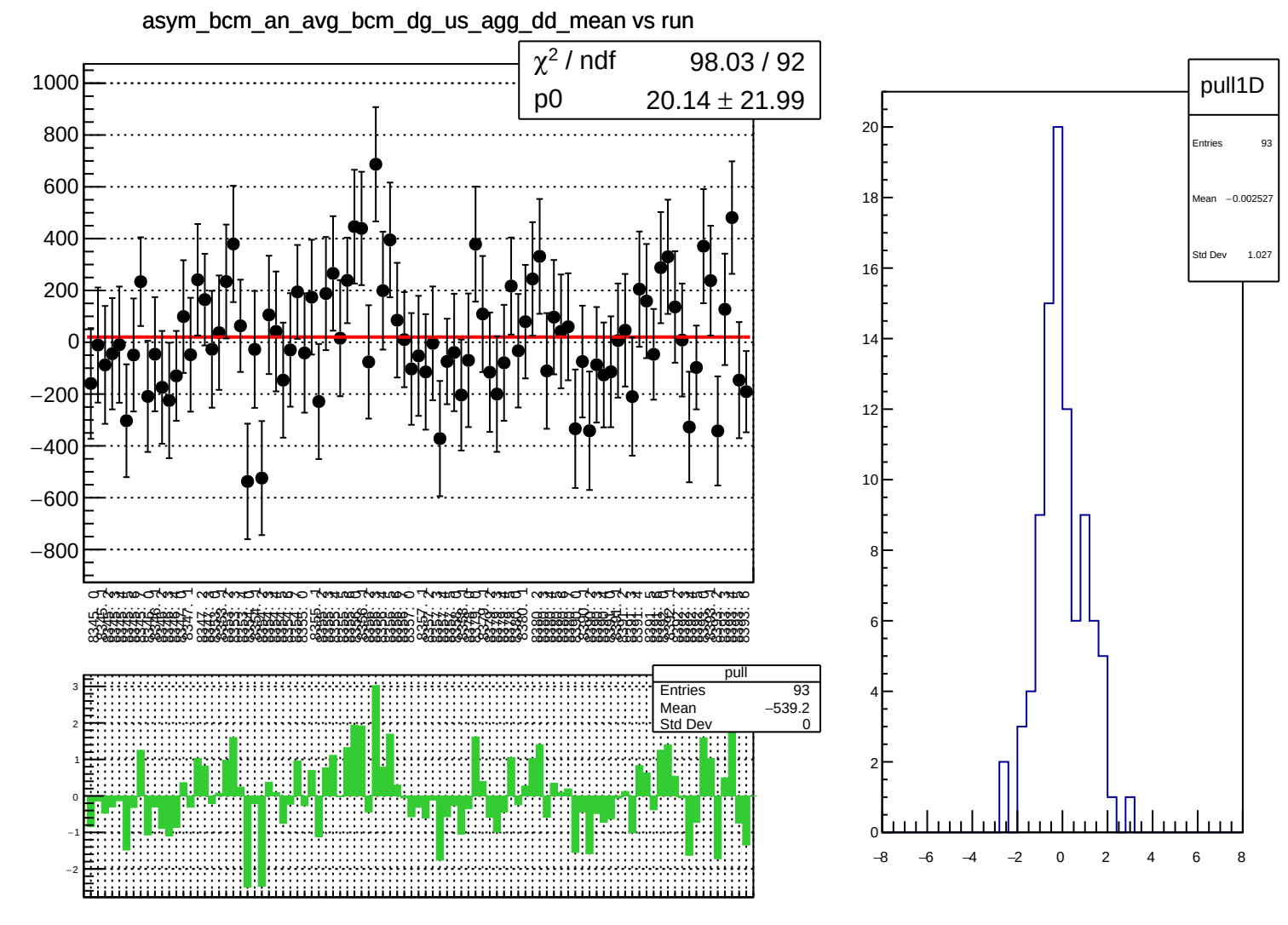

pull1D
Entries 93
Mean 0.002515
Std Dev 0.5333
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

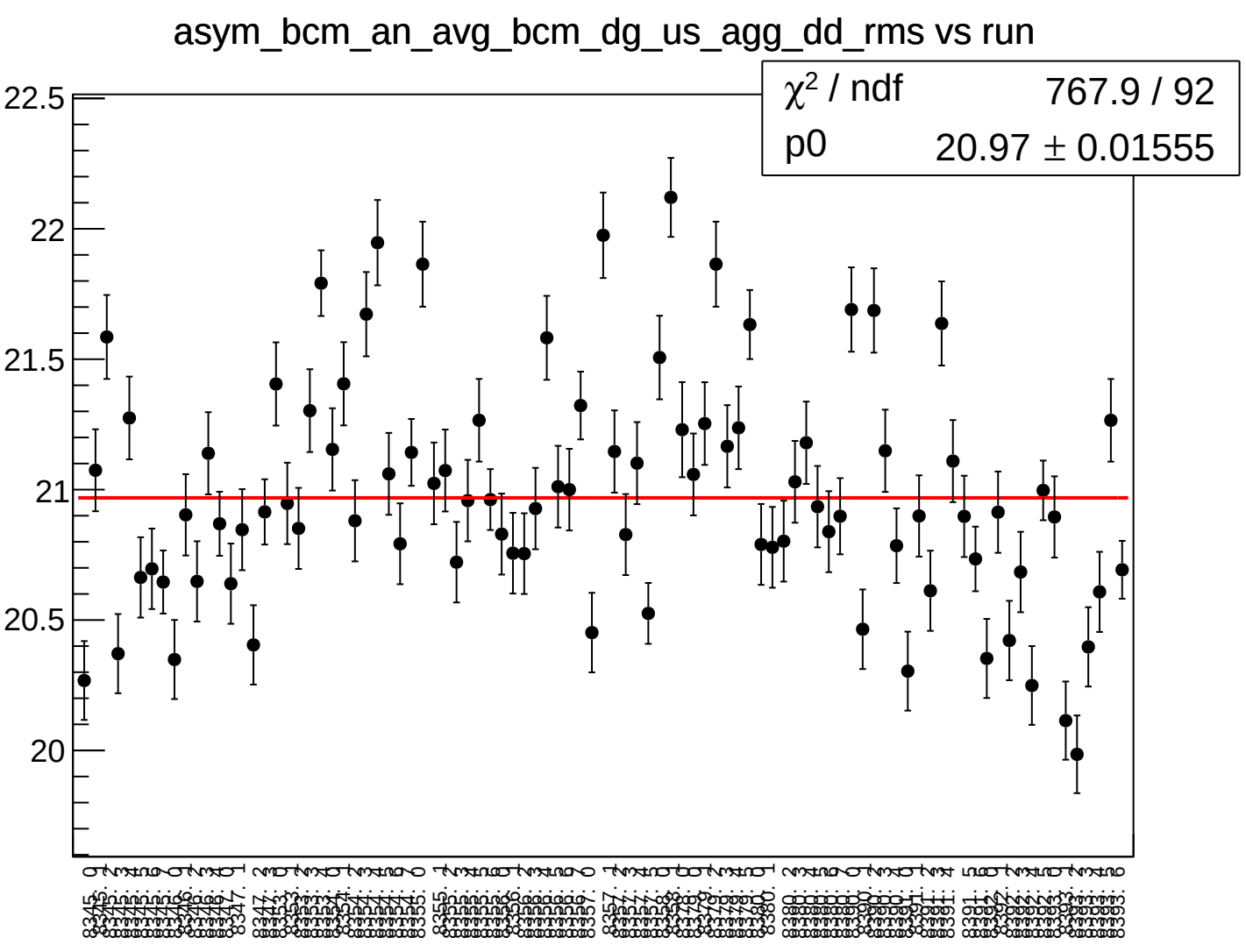

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.298e+05 / 92
p0 199.9 ± 0.1538
700
600
500
400
300
200

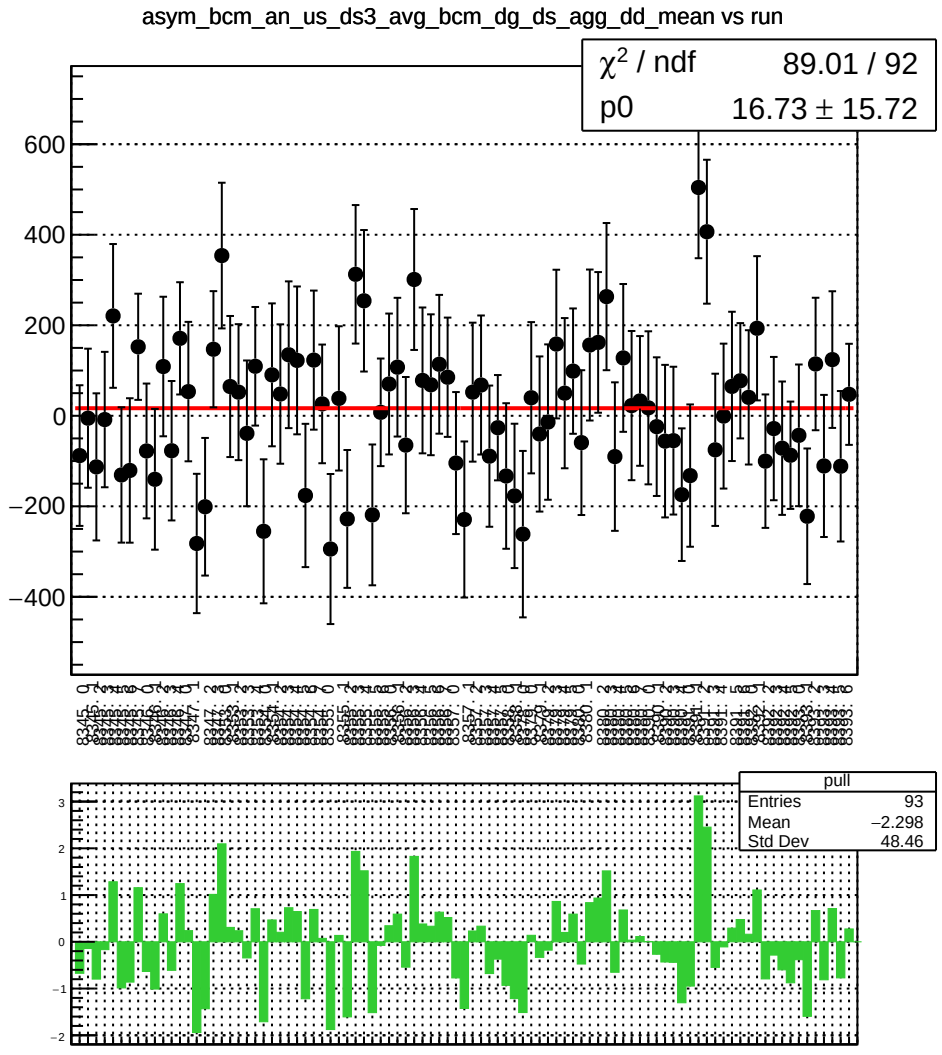

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 90.14 / 92
p0 18.07 ± 15.8
800
600
400
200
0
−200
−400
pull
Entries 93
Mean −58.4
Std Dev 0
3
2
1
0
−1
−2

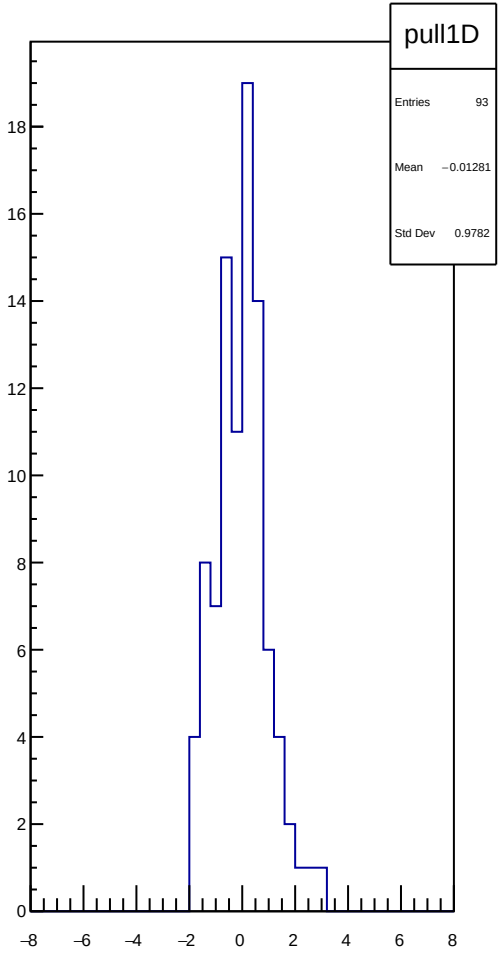

pull1D
Entries 93
Mean −0.01132
Std Dev 0.9844
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

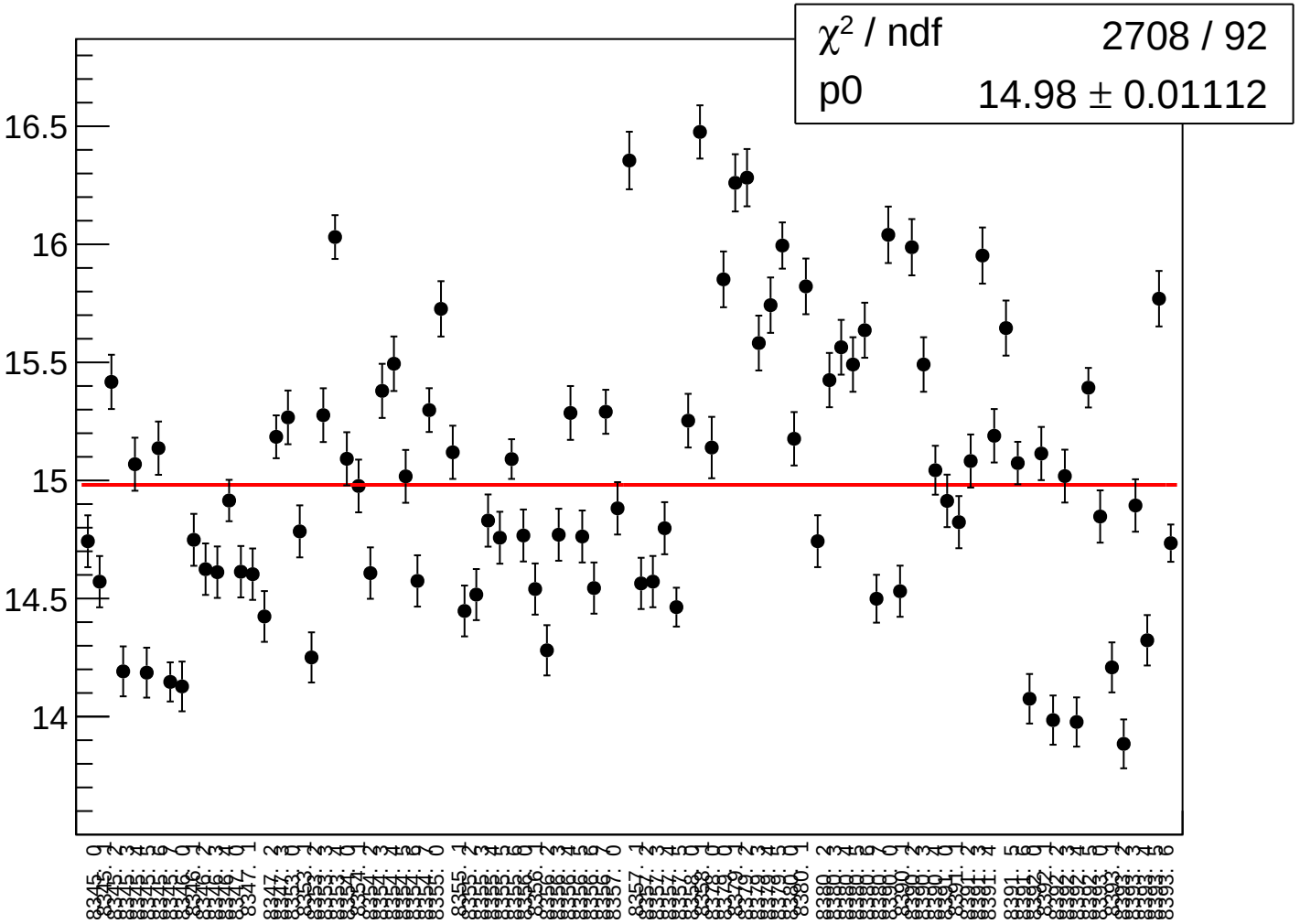

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2640 / 92
p0 15.06 ± 0.01117
16.5
16
15.5
15
14.5
14

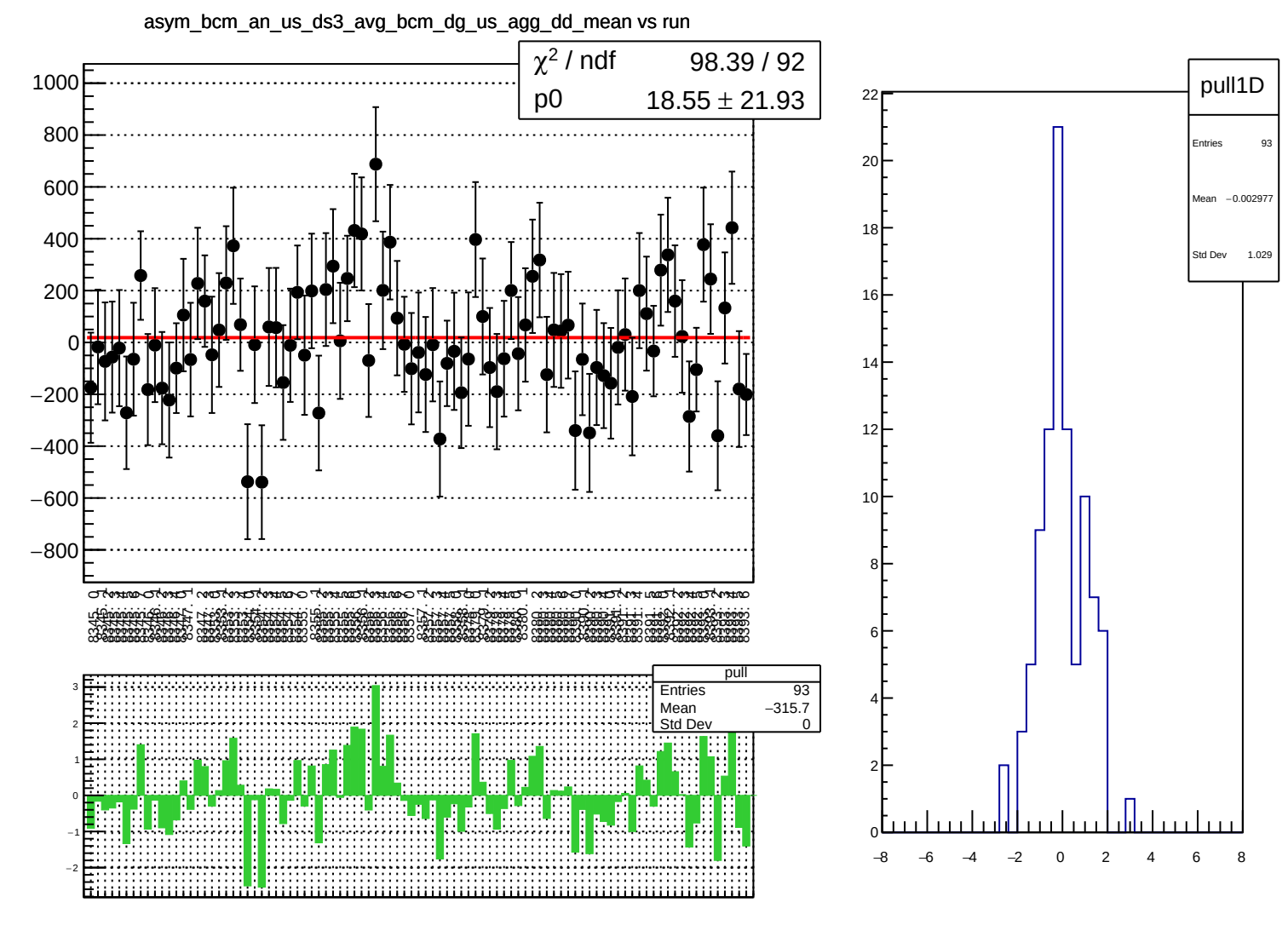

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 98.03 / 92
p0 20.14 ± 21.99
pull
Entries 93
Mean −539.2
Std Dev 0
pull1D
Entries 93
Mean −0.002527
Std Dev 1.027

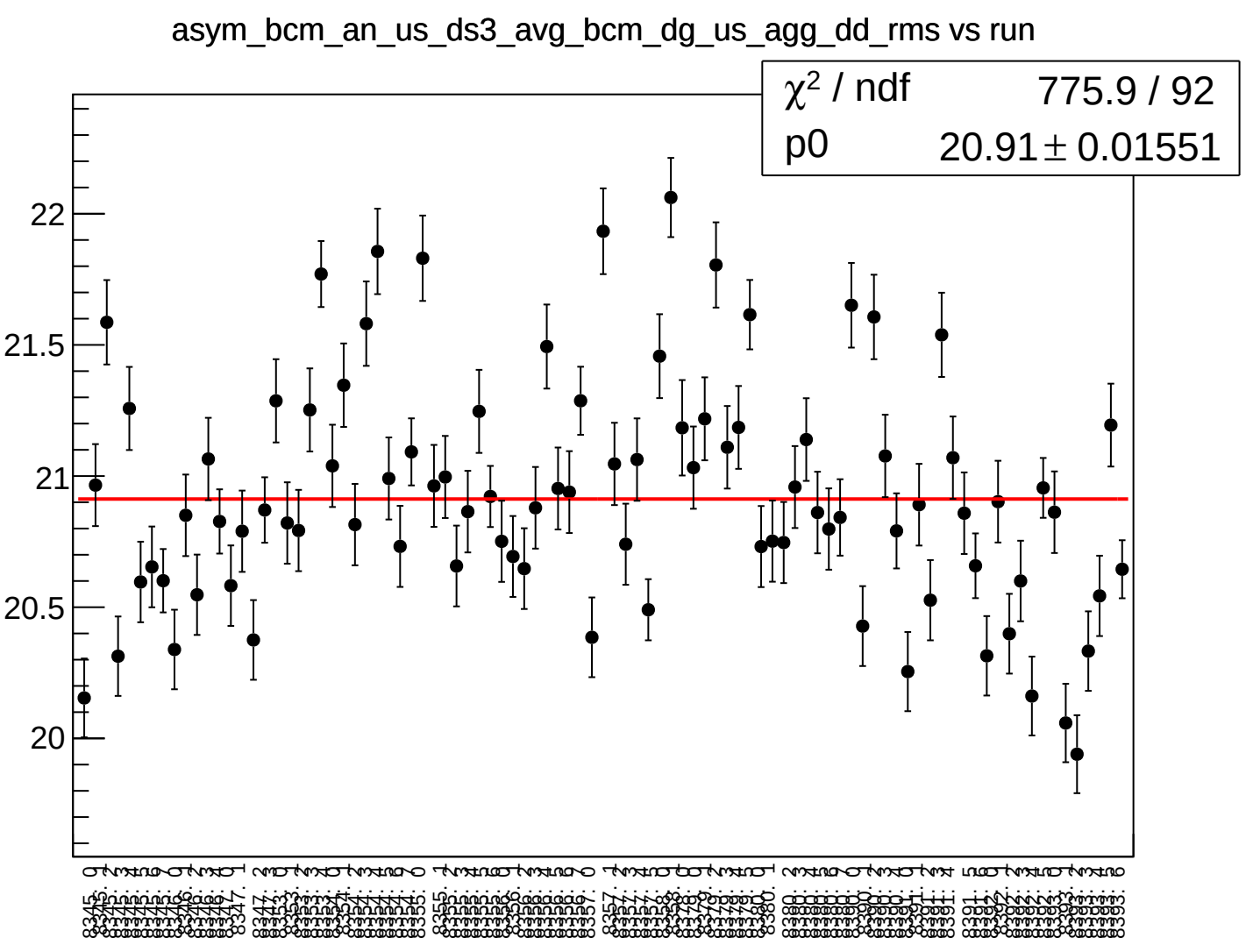

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 767.9 / 92
p0 20.97 ± 0.01555
22.5
22
21.5
21
20.5
20

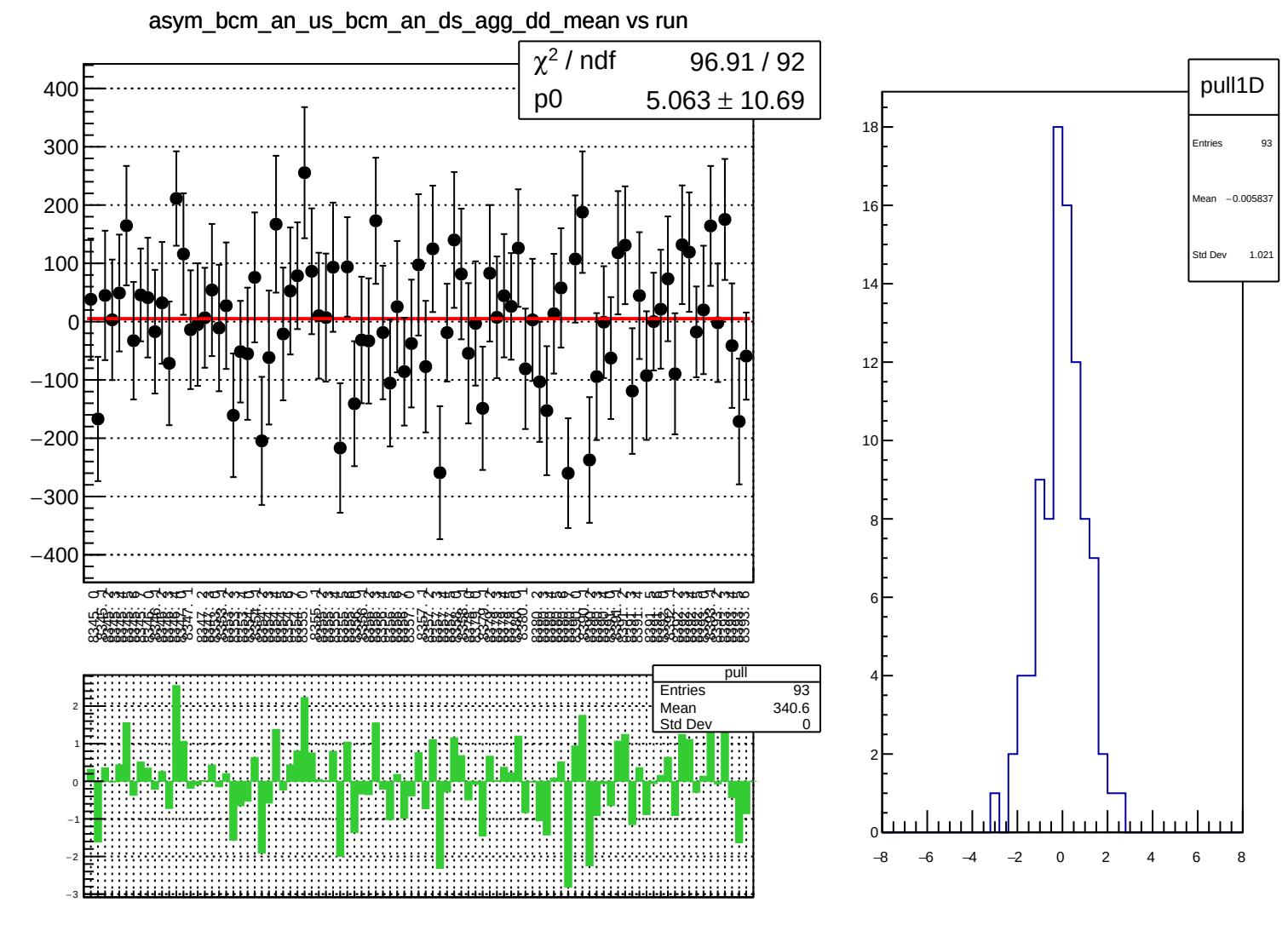

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 89.01 / 92
p0 16.73 ± 15.72
pull
Entries 93
Mean −2.298
Std Dev 48.46

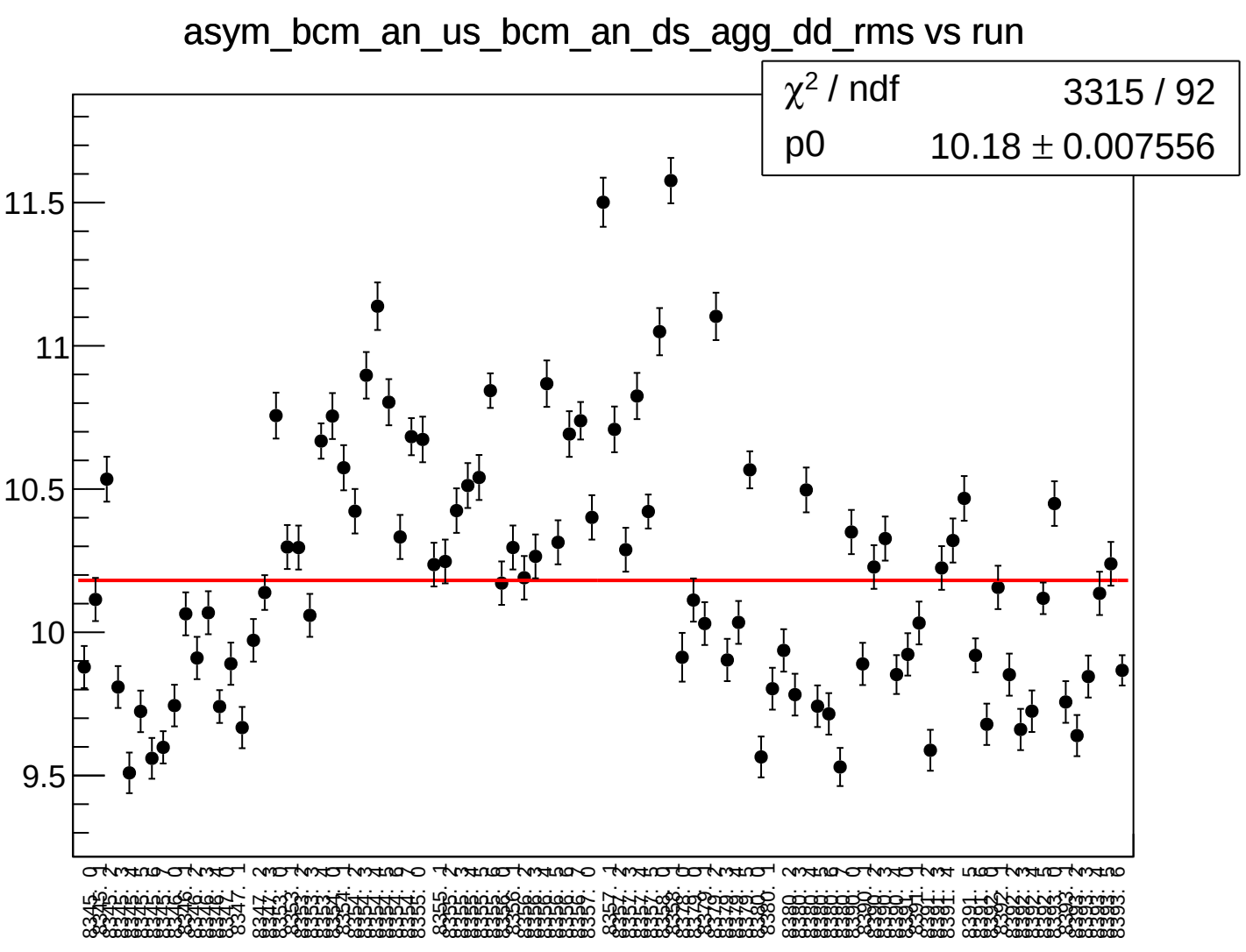

pull1D
Entries 93
Mean −0.01281
Std Dev 0.9782

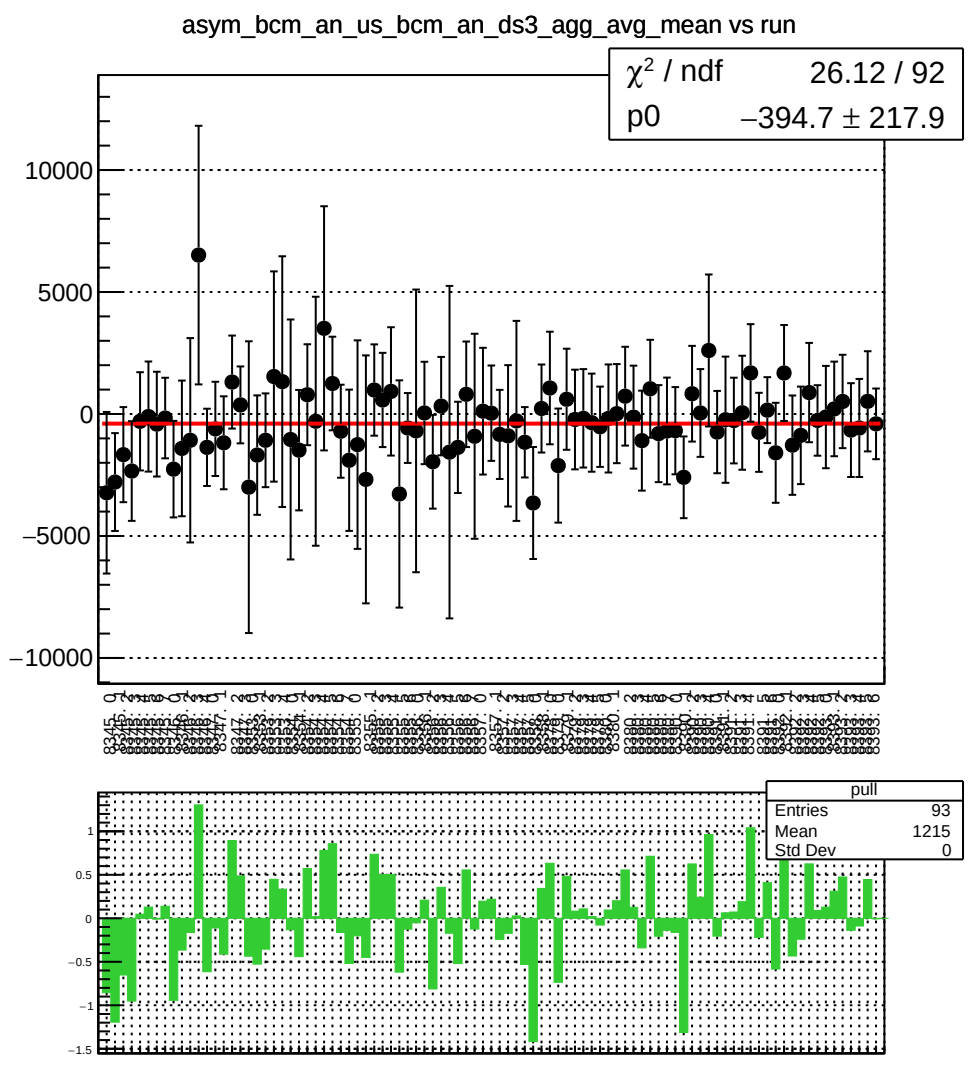

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2708 / 92
p0 14.98 ± 0.01112
16.5
16
15.5
15
14.5
14

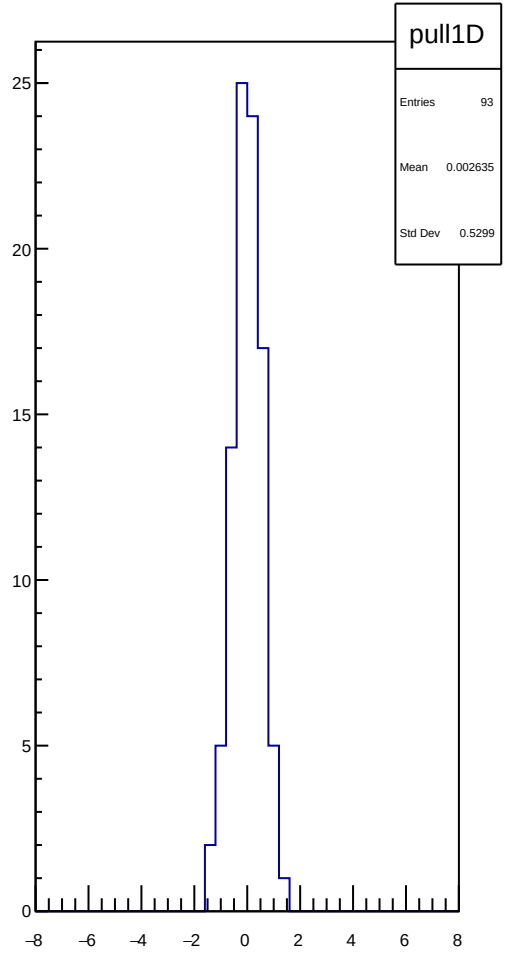

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 98.39 / 92
p0 18.55 ± 21.93
pull
Entries 93
Mean −315.7
Std Dev 0
pull1D
Entries 93
Mean −0.002977
Std Dev 1.029

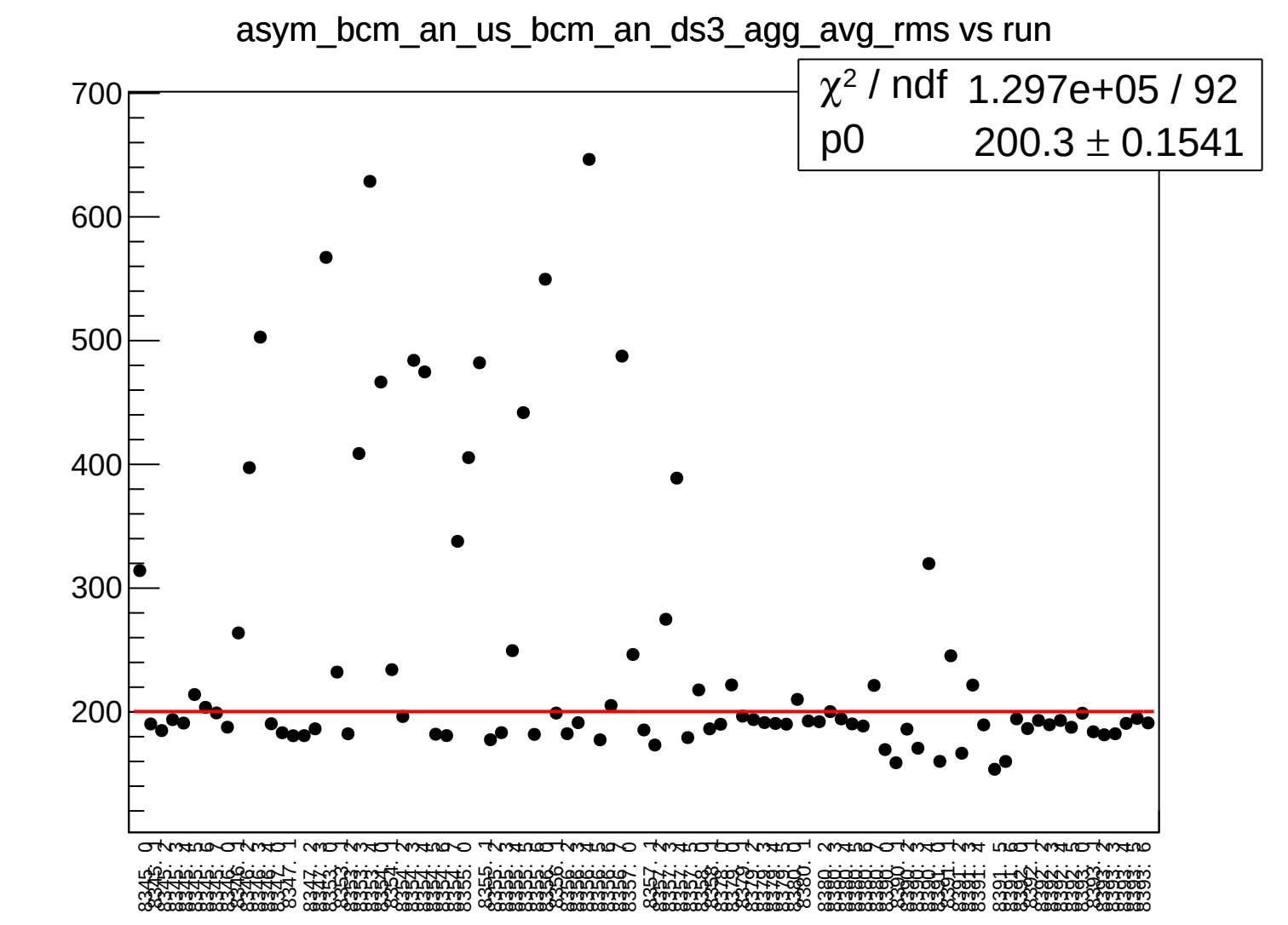

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 775.9 / 92
p0 20.91 ± 0.01551
22
21.5
21
20.5
20

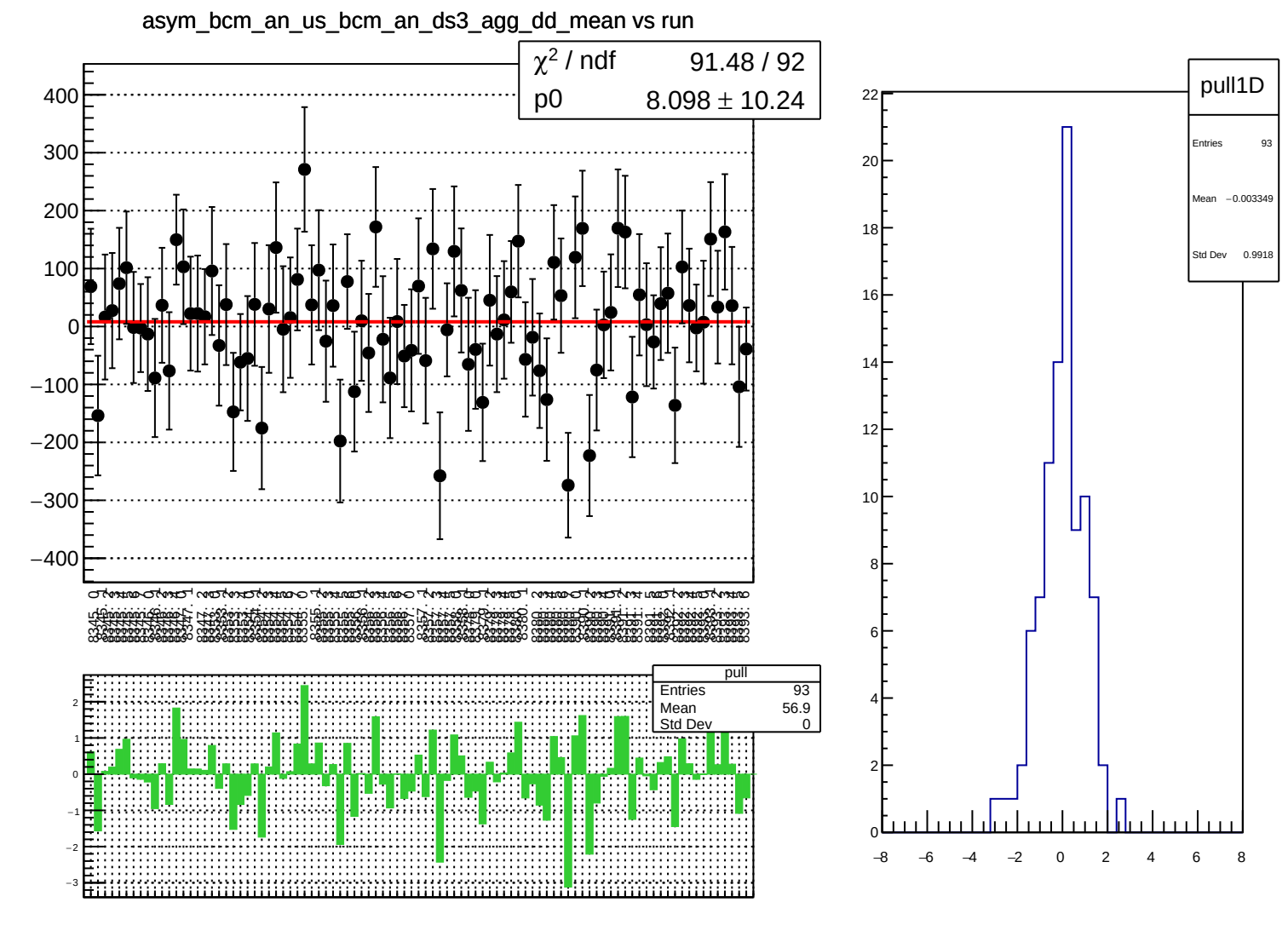

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 96.91 / 92
p0 5.063 ± 10.69
pull
Entries 93
Mean 340.6
Std Dev 0
pull1D
Entries 93
Mean −0.005837
Std Dev 1.021

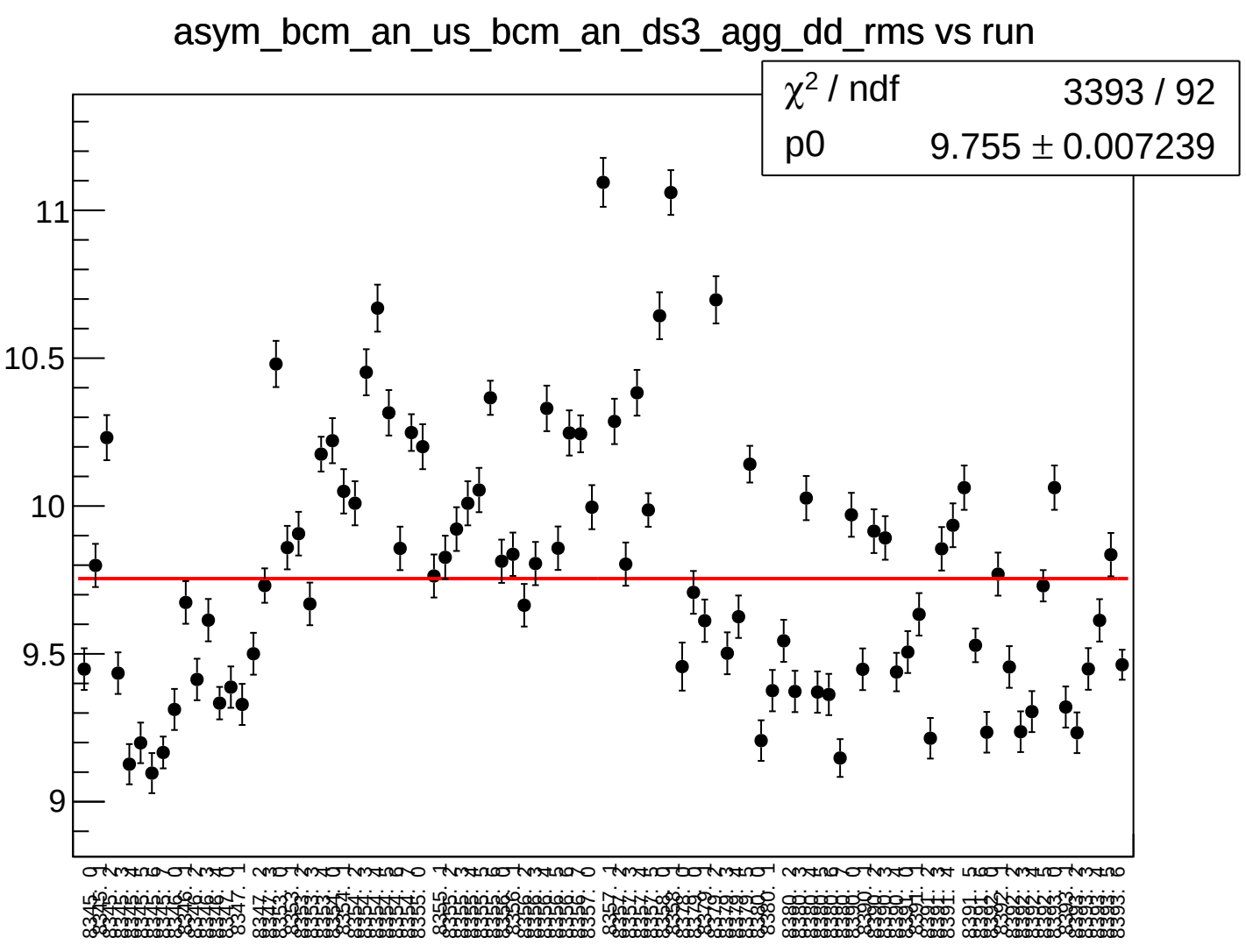

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 3315 / 92
p0 10.18 ± 0.007556
11.5
11
10.5
10
9.5

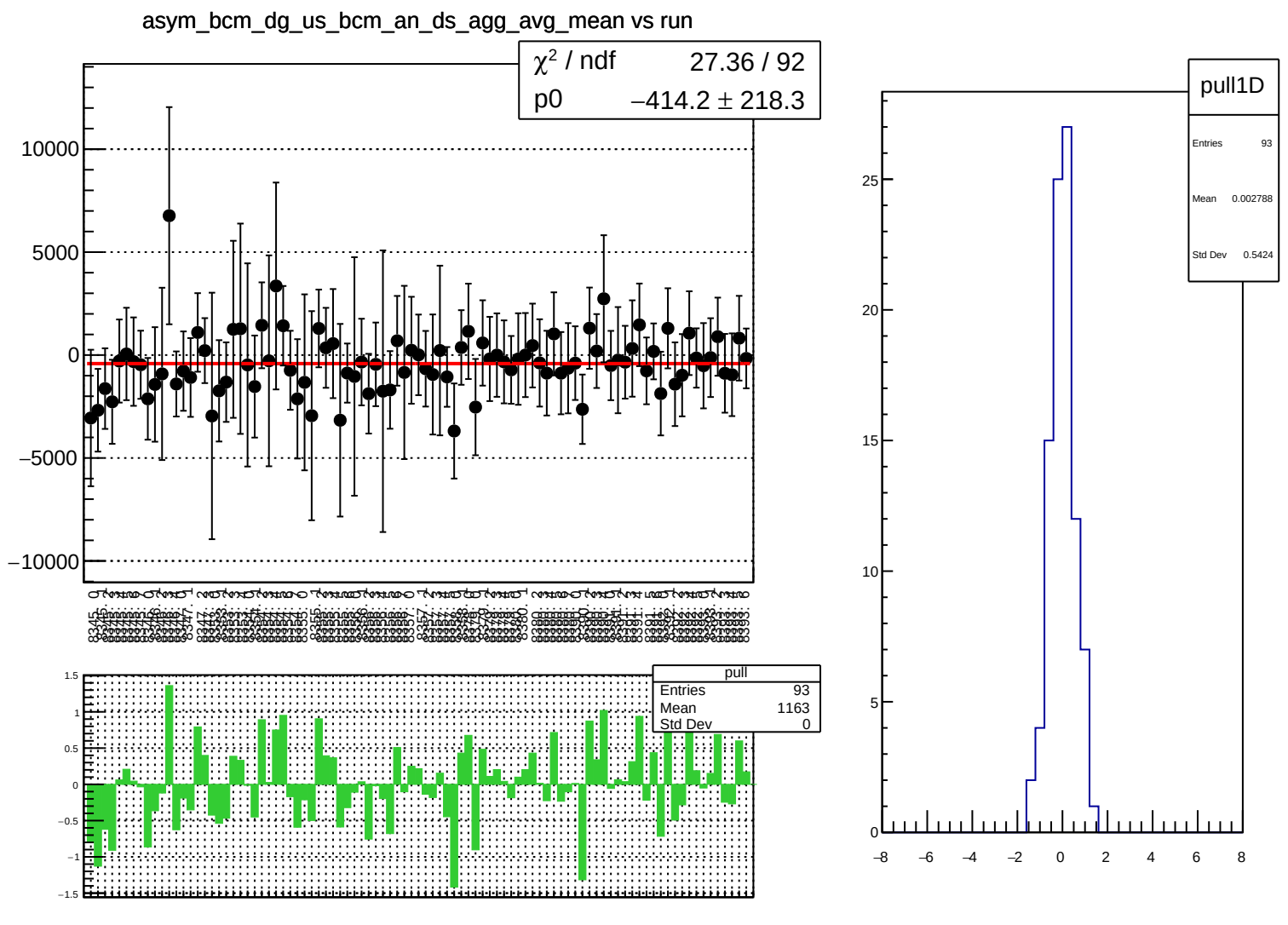

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 26.12 / 92
p0 −394.7 ± 217.9
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 1215
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

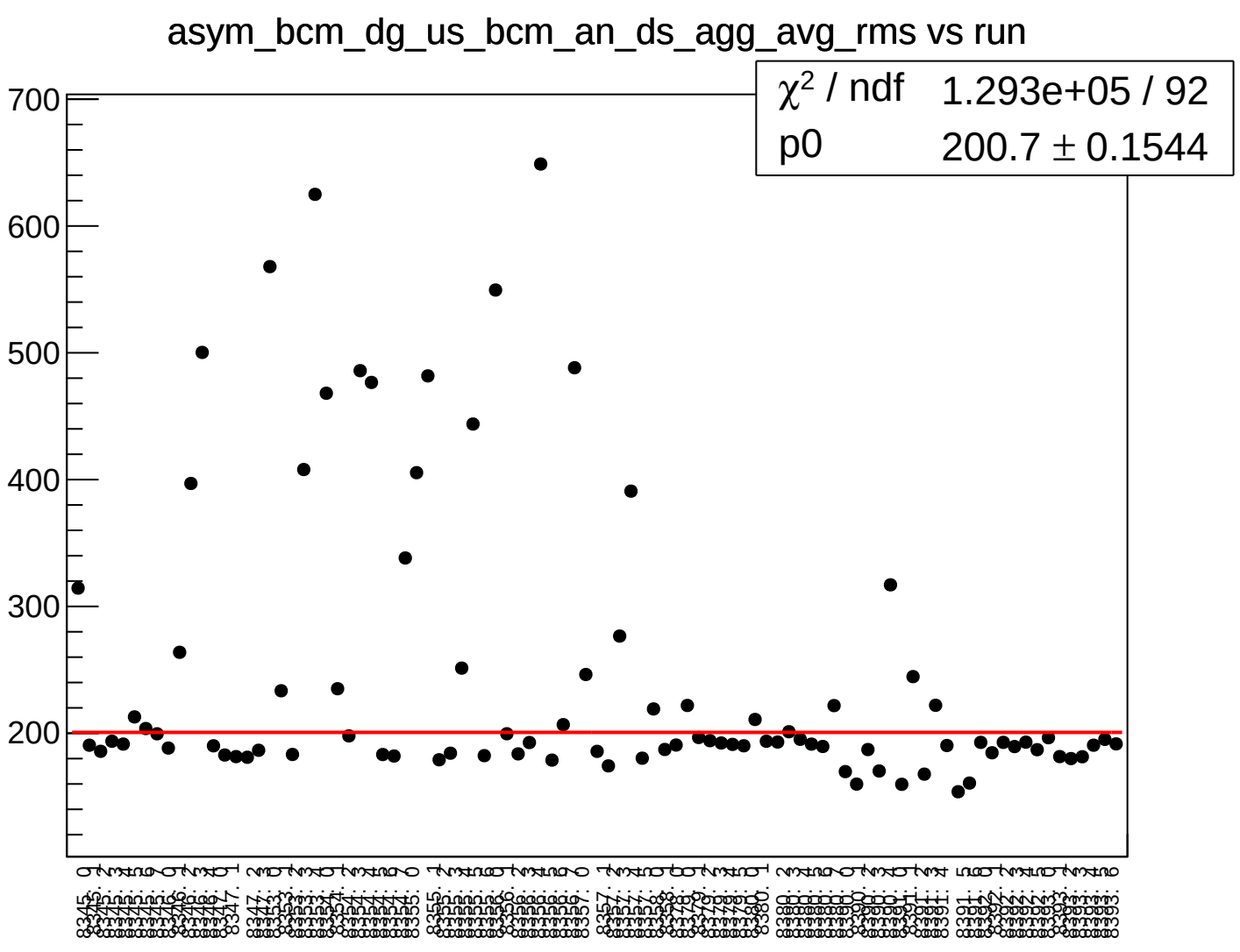

pull1D
Entries 93
Mean 0.002635
Std Dev 0.5299
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

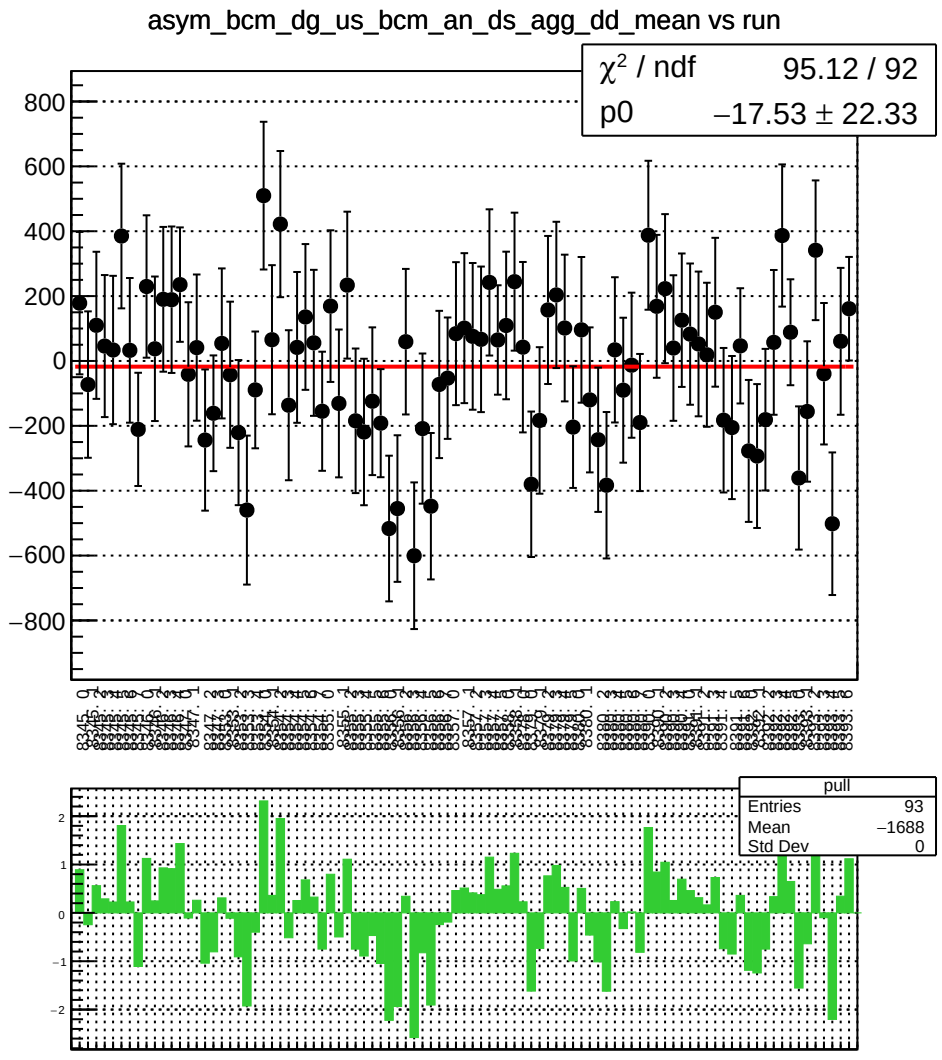

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 1.297e+05 / 92
p0 200.3 ± 0.1541
700
600
500
400
300
200

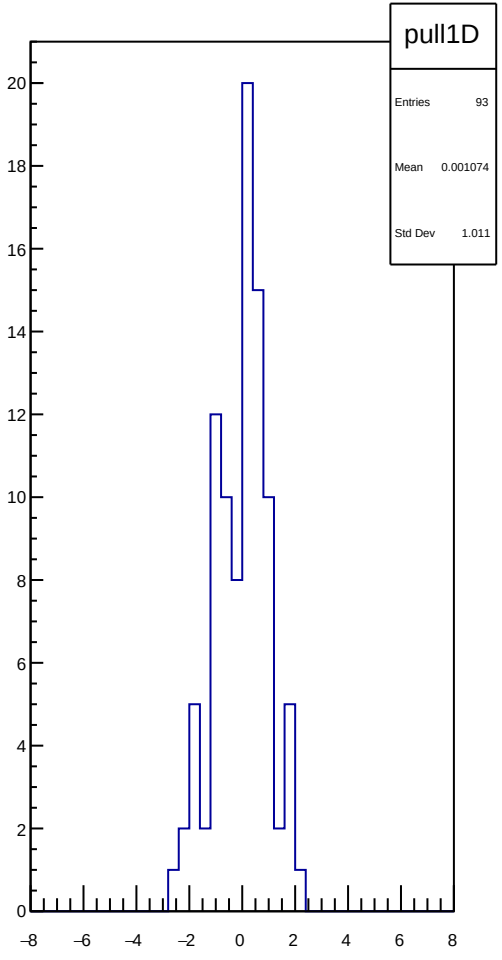

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 91.48 / 92
p0 8.098 ± 10.24
pull
Entries 93
Mean 56.9
Std Dev 0
pull1D
Entries 93
Mean −0.003349
Std Dev 0.9918

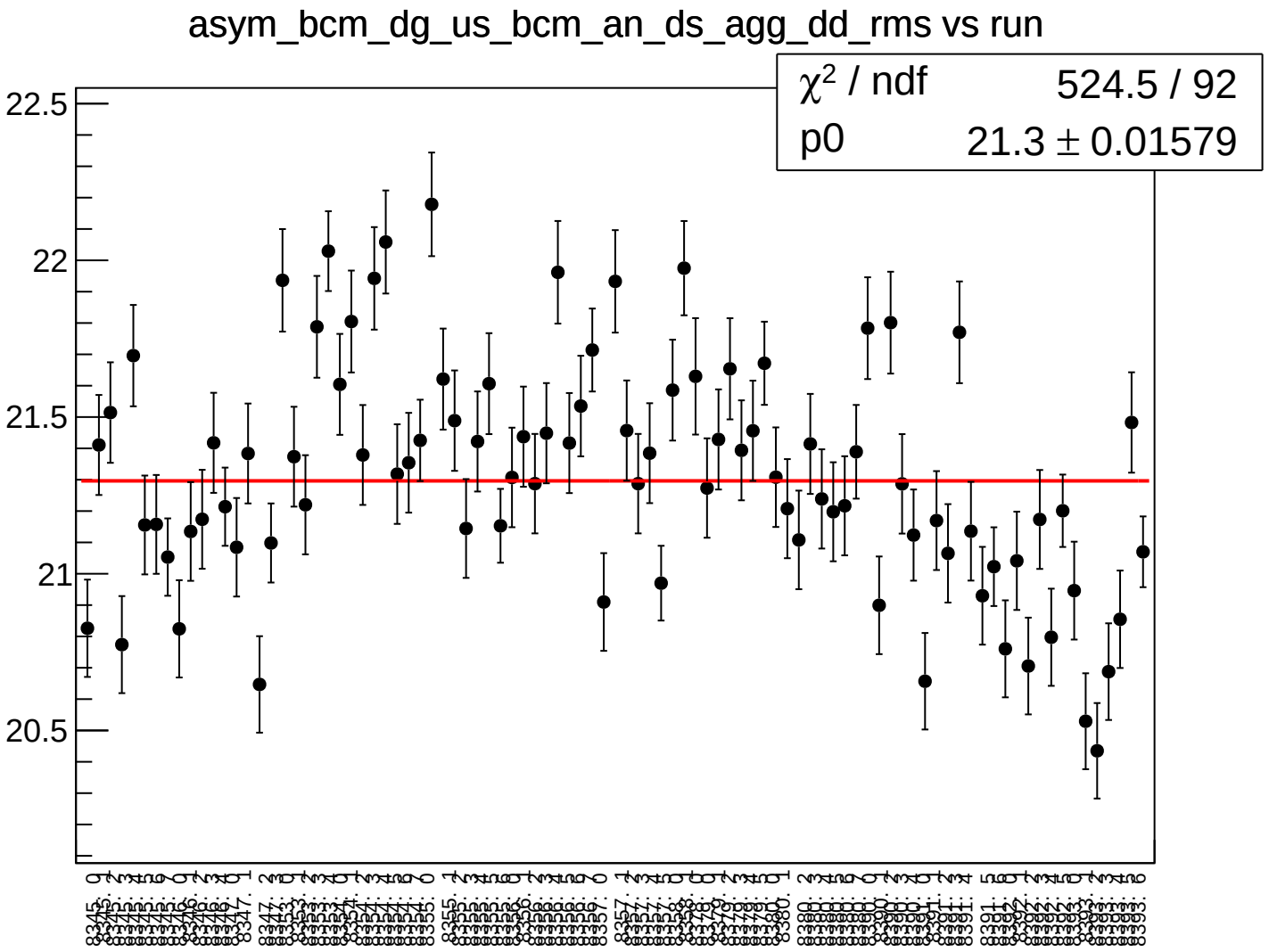

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 3393 / 92
p0 9.755 ± 0.007239
11
10.5
10
9.5
9

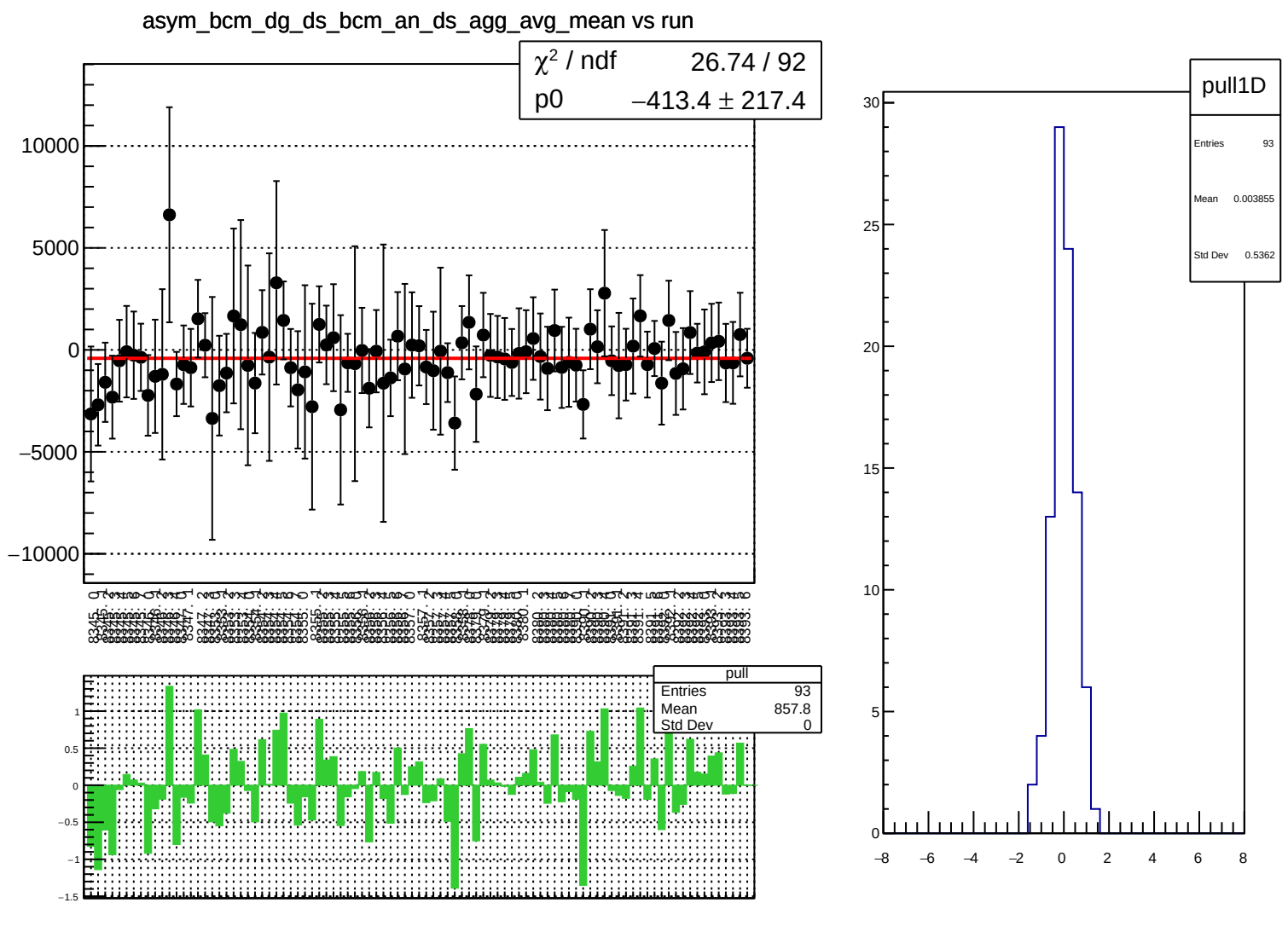

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 27.36 / 92
p0 −414.2 ± 218.3
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 1163
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean 0.002788
Std Dev 0.5424
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

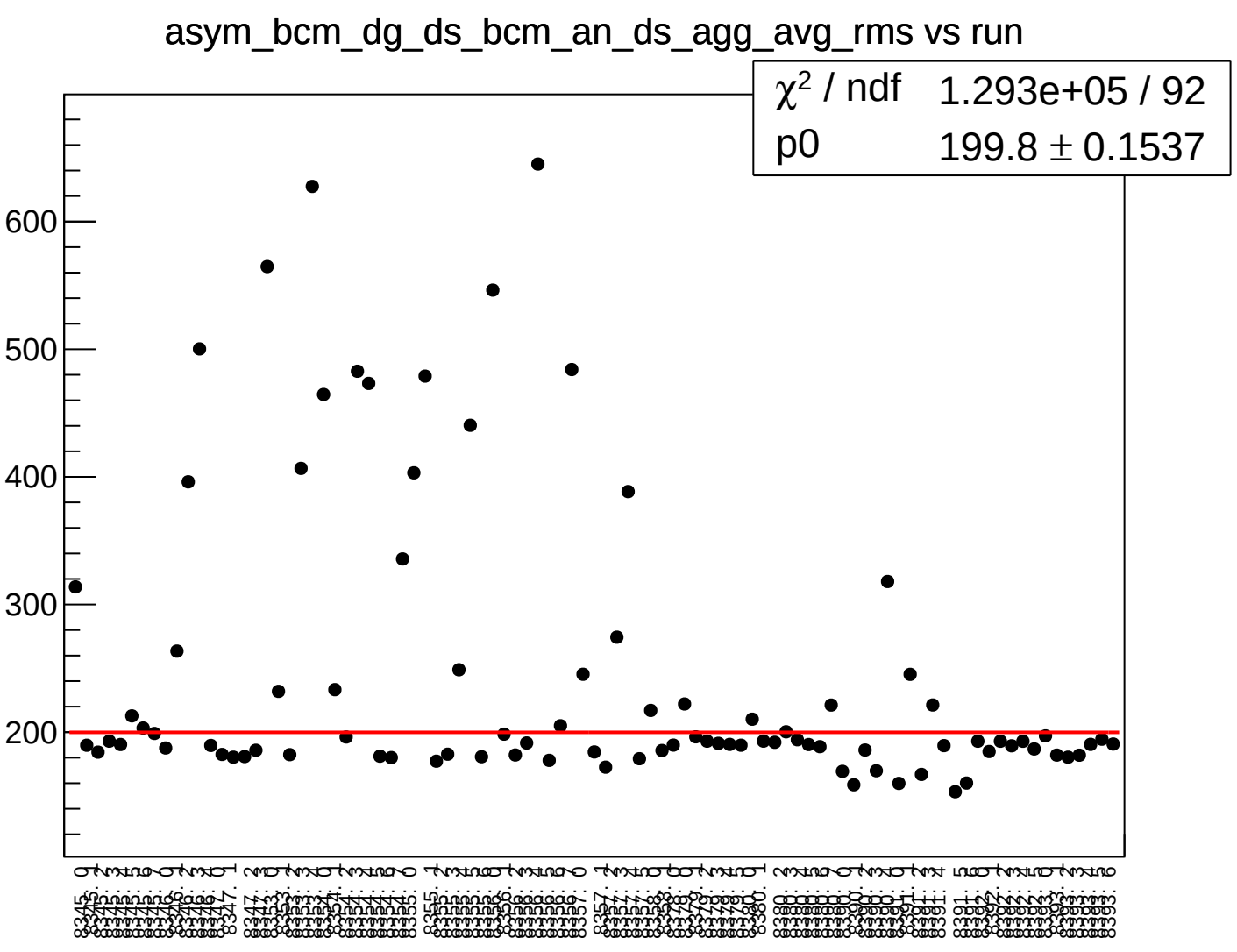

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.293e+05 / 92
p0 200.7 ± 0.1544
700
600
500
400
300
200

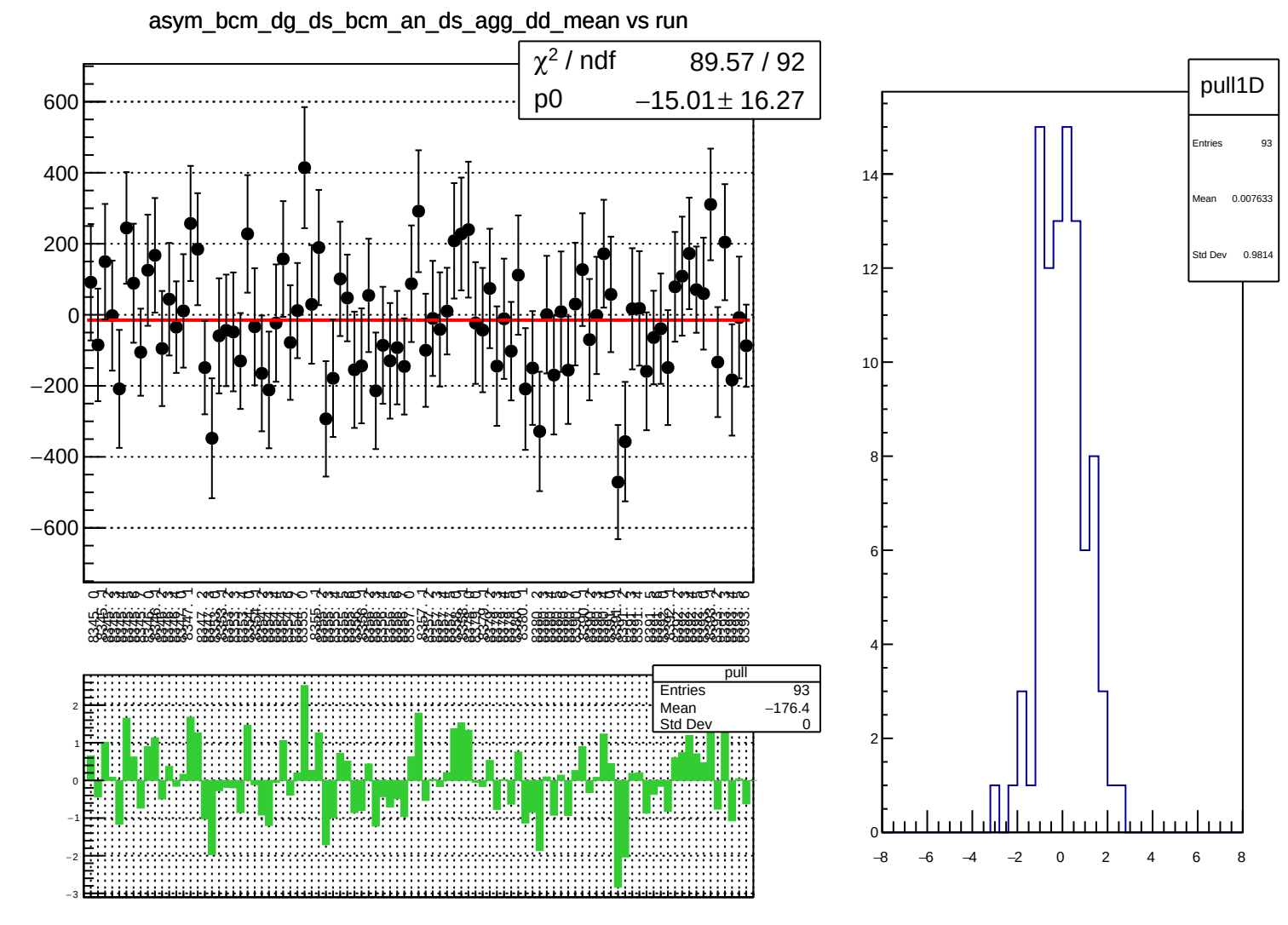

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 95.12 / 92
p0 −17.53 ± 22.33
pull
Entries 93
Mean −1688
Std Dev 0

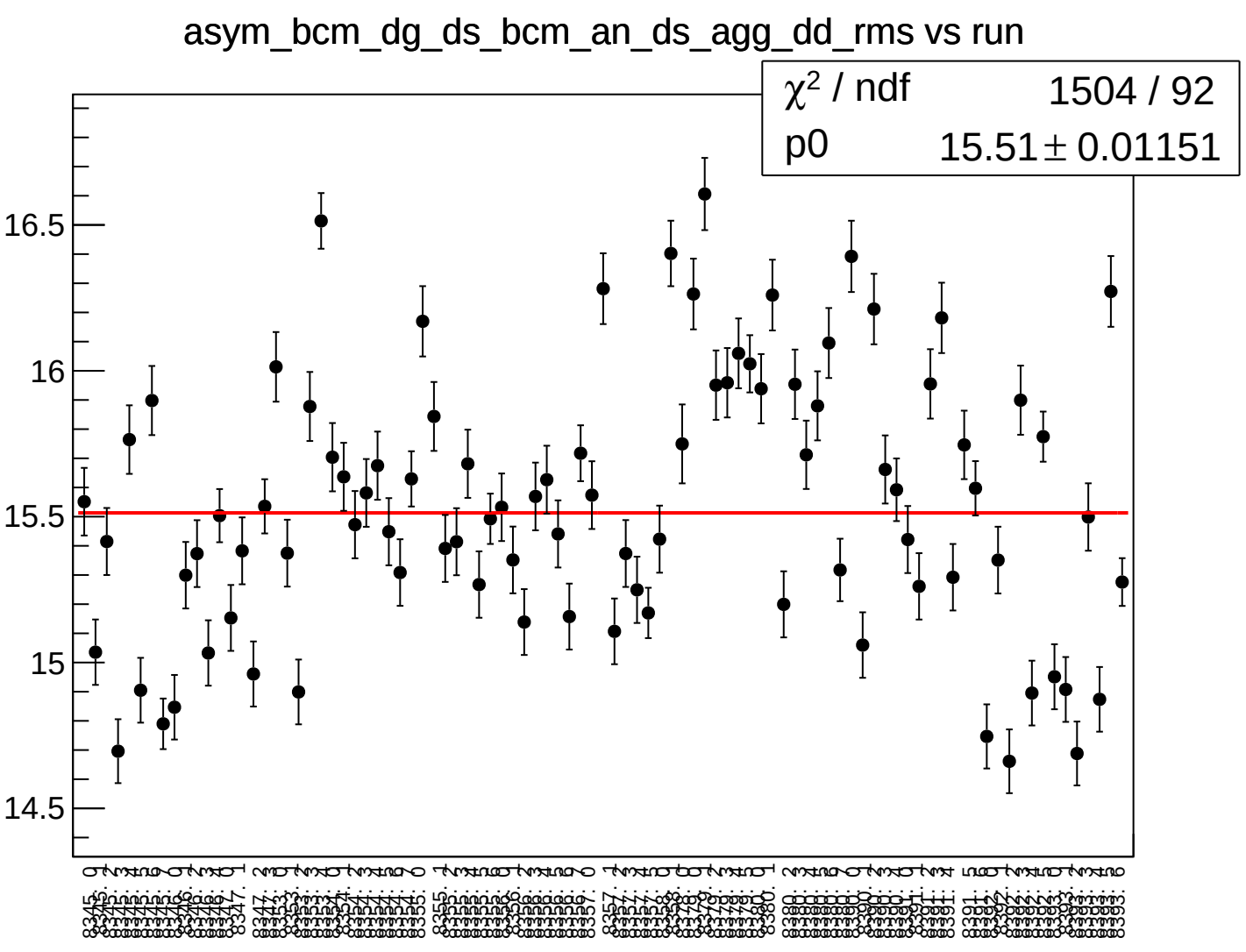

pull1D
Entries 93
Mean 0.001074
Std Dev 1.011

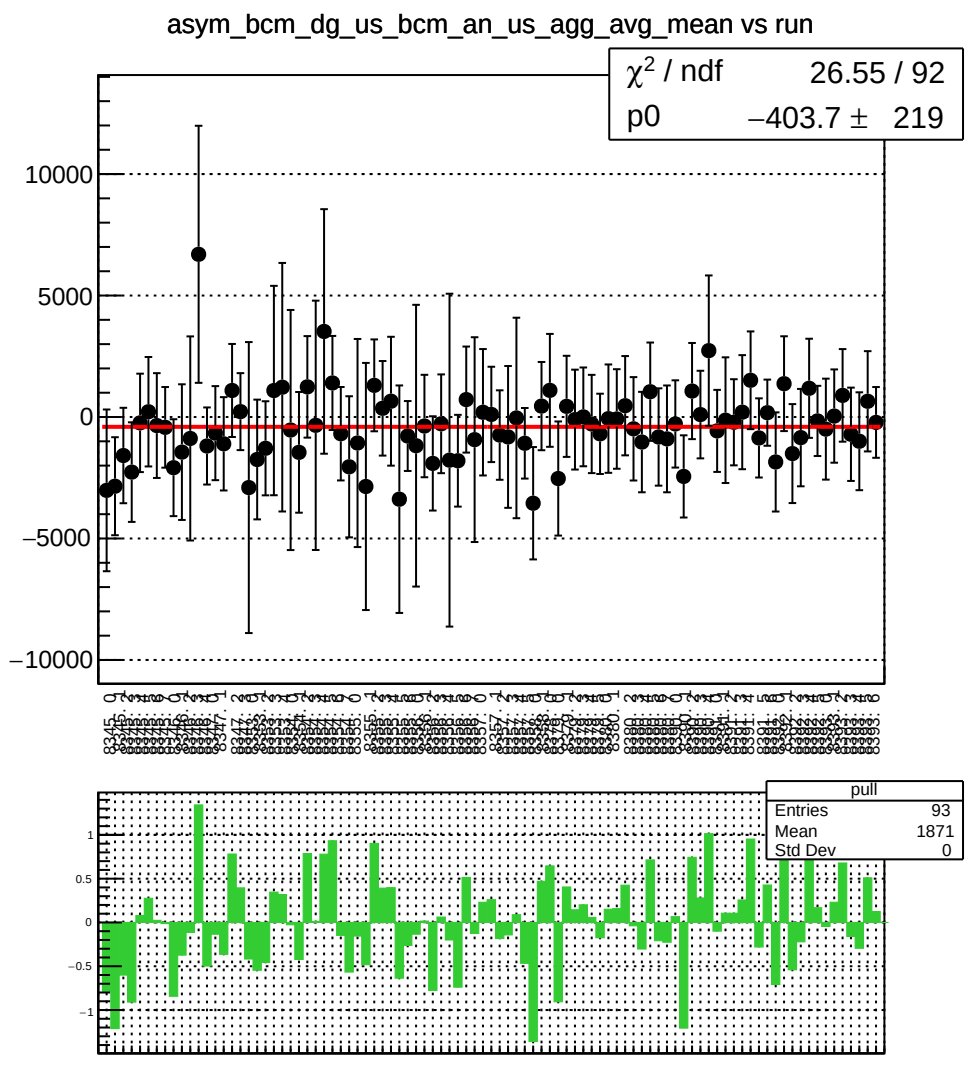

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 524.5 / 92
p0 21.3 ± 0.01579
22.5
22
21.5
21
20.5

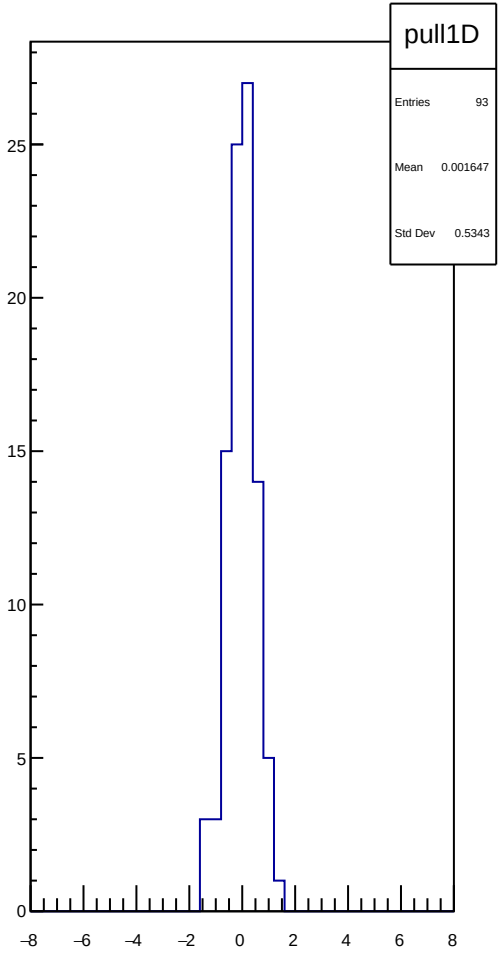

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 26.74 / 92
p0 −413.4 ± 217.4
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 857.8
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean 0.003855
Std Dev 0.5362
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

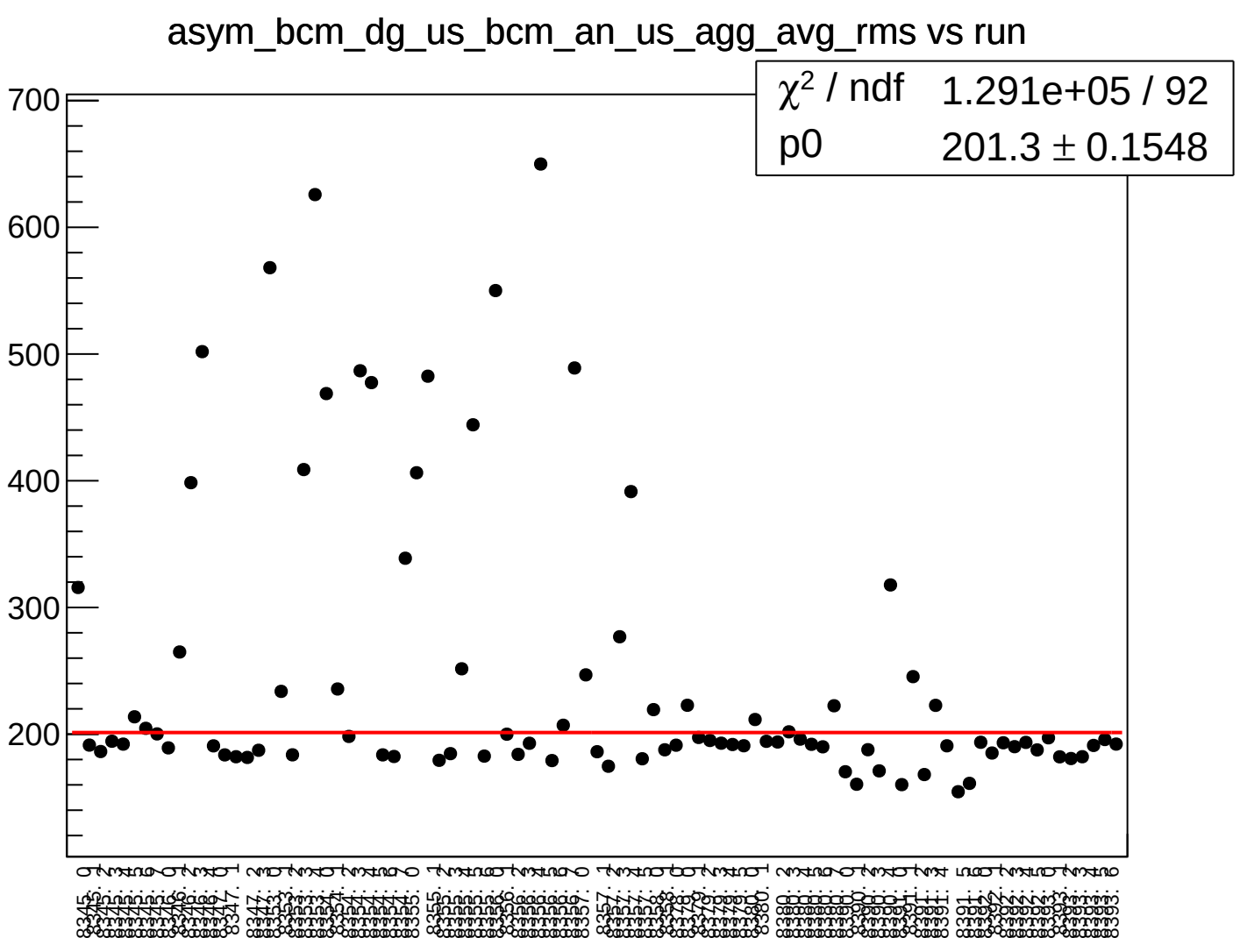

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.293e+05 / 92
p0 199.8 ± 0.1537
600
500
400
300
200

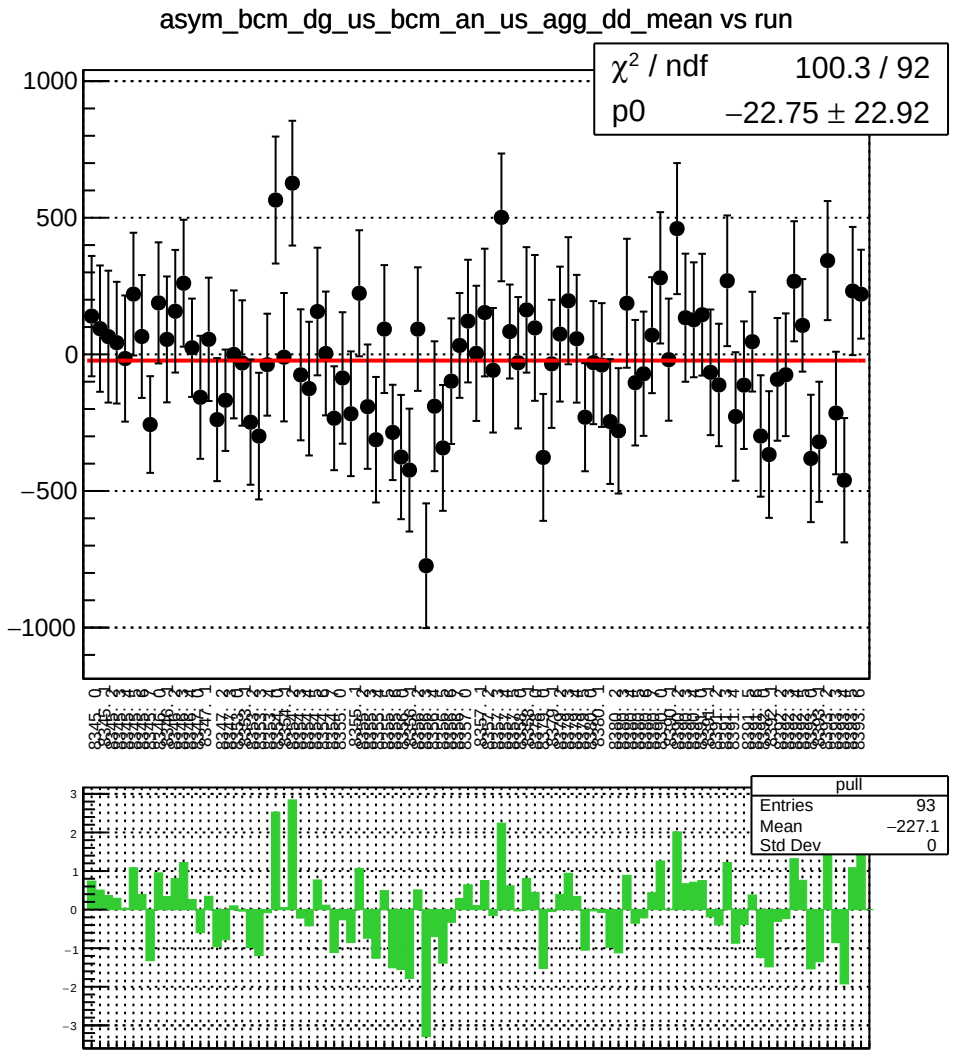

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 89.57 / 92
p0 −15.01 ± 16.27
pull
Entries 93
Mean −176.4
Std Dev 0
pull1D
Entries 93
Mean 0.007633
Std Dev 0.9814

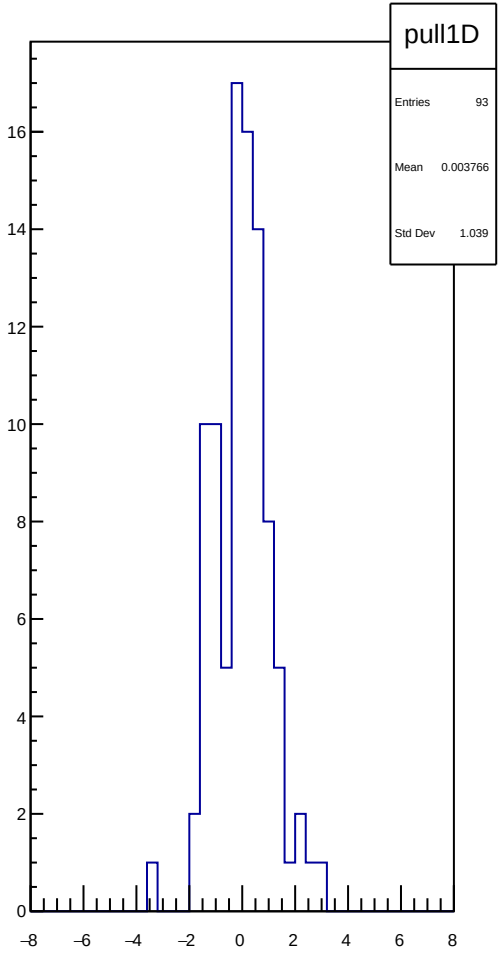

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1504 / 92
p0 15.51 ± 0.01151
16.5
16
15.5
15
14.5

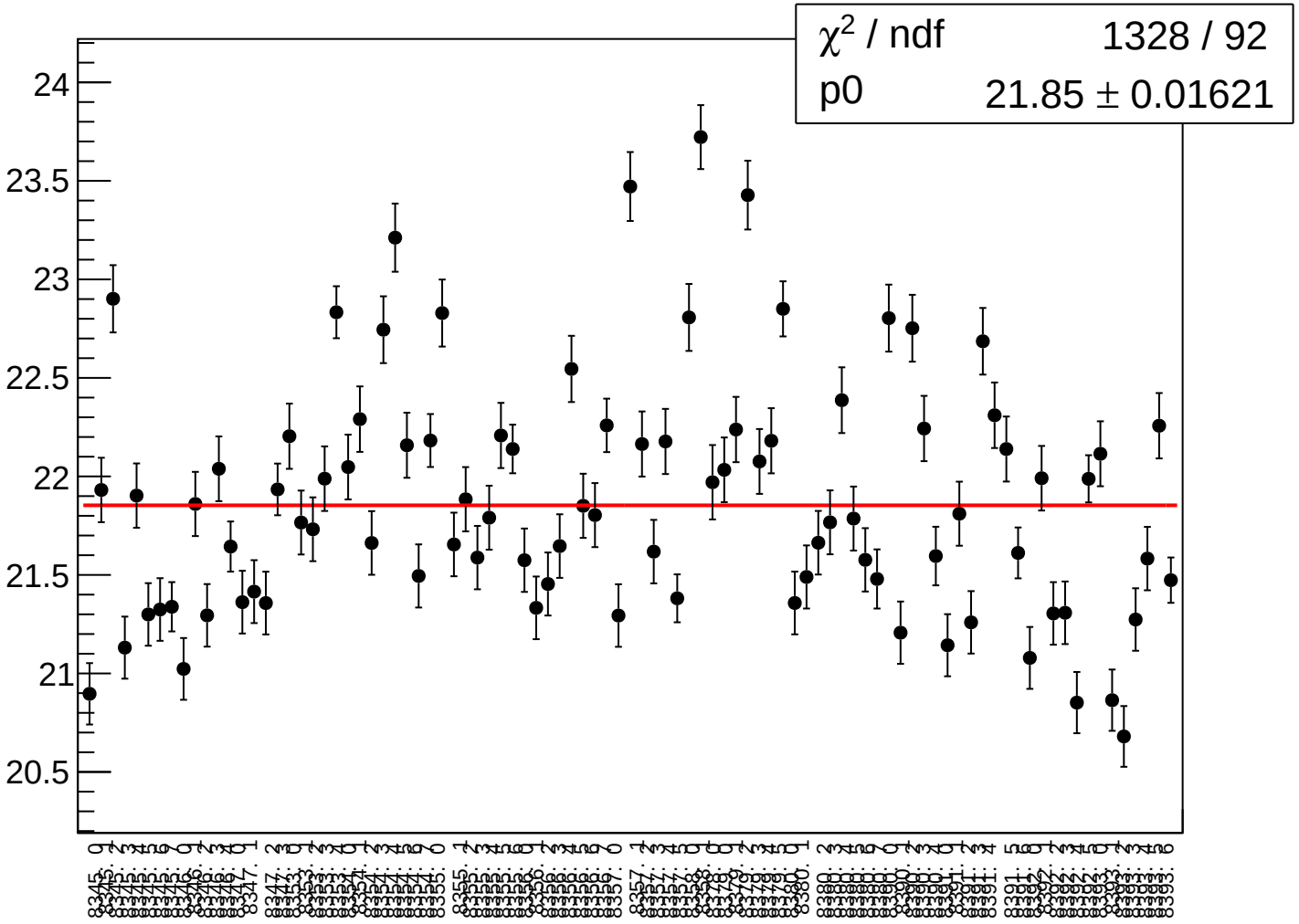

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 26.55 / 92
p0 −403.7 ± 219
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 1871
Std Dev 0
1
0.5
0
−0.5
−1

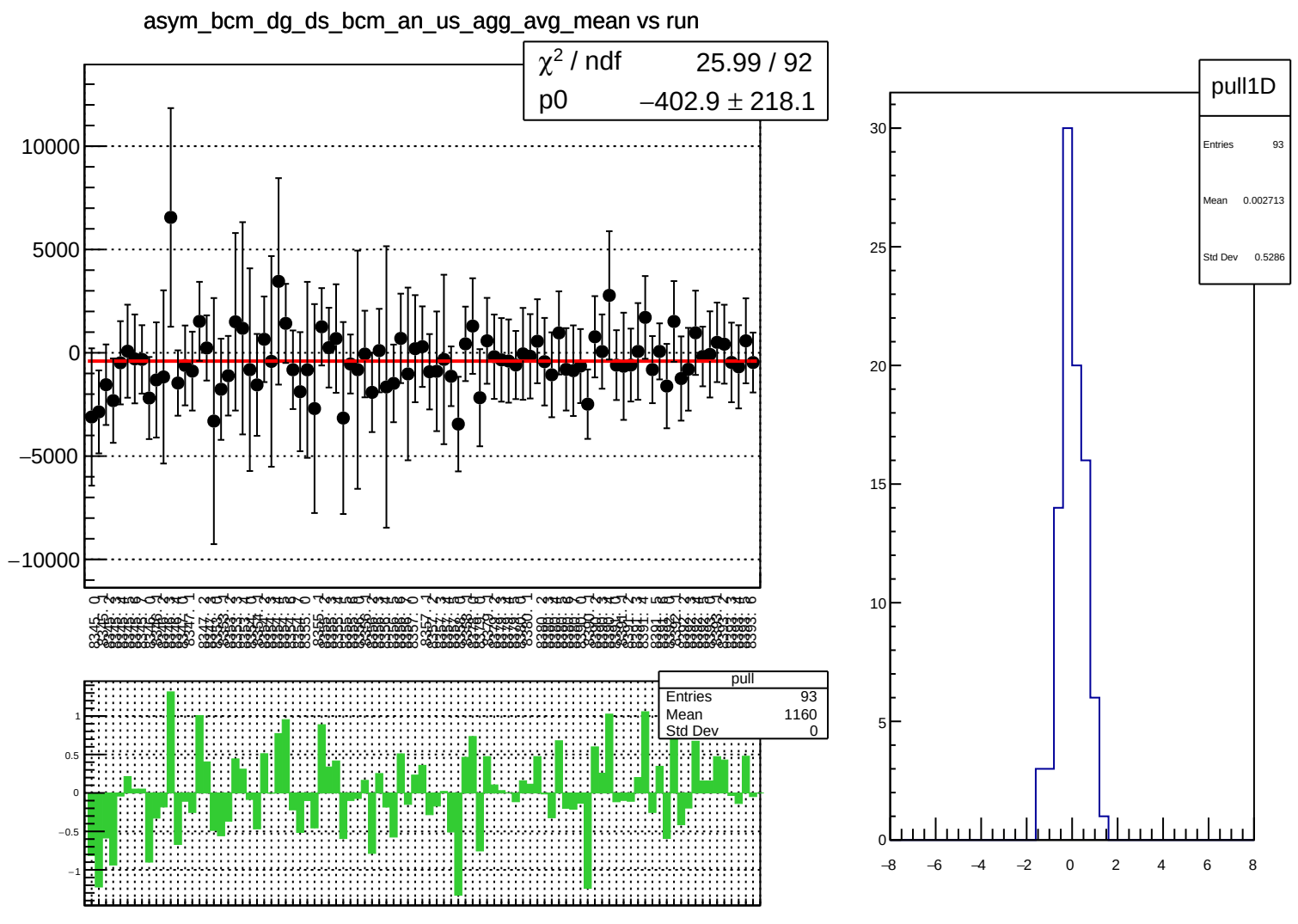

pull1D
Entries 93
Mean 0.001647
Std Dev 0.5343
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

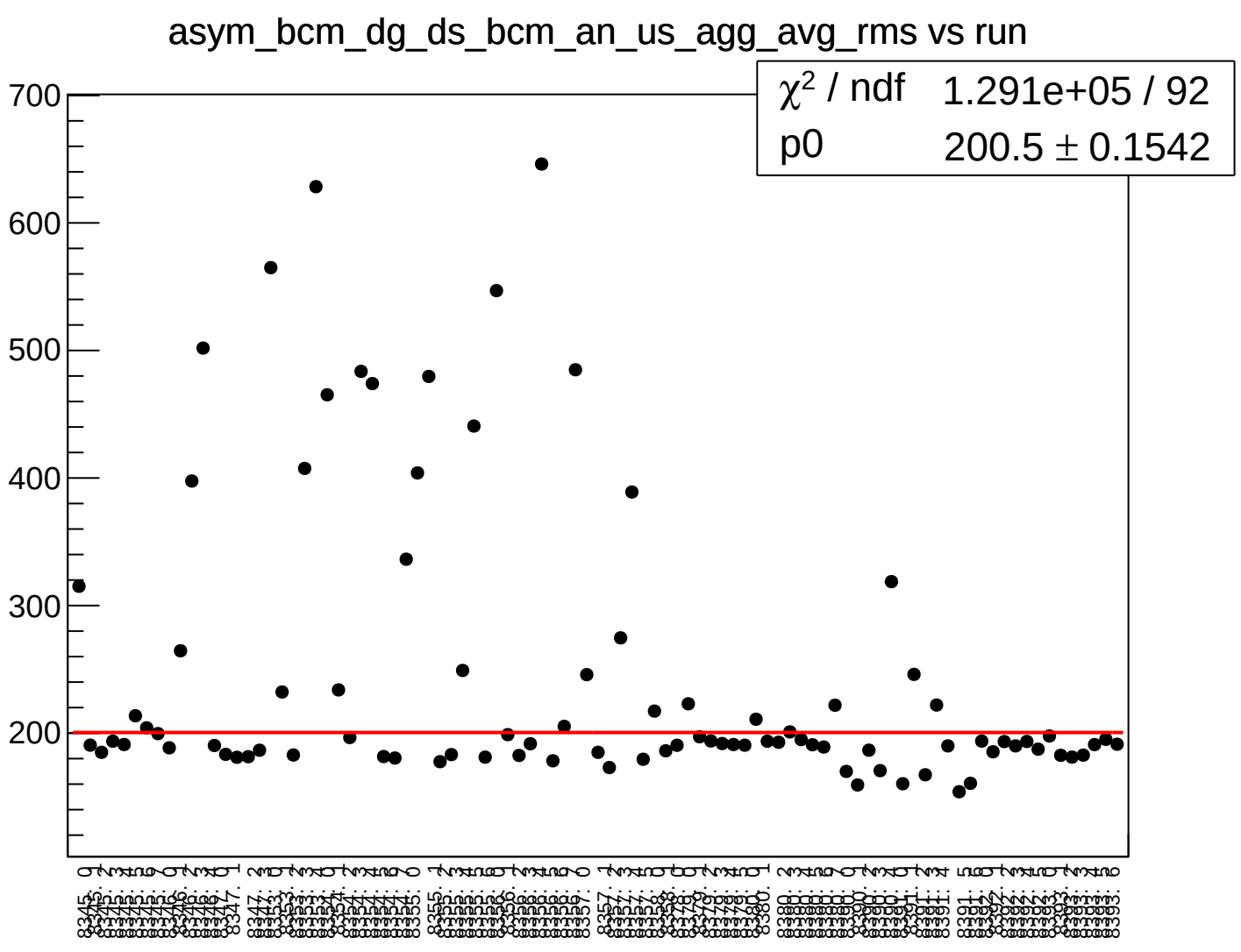

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.291e+05 / 92
p0 201.3 ± 0.1548
700
600
500
400
300
200

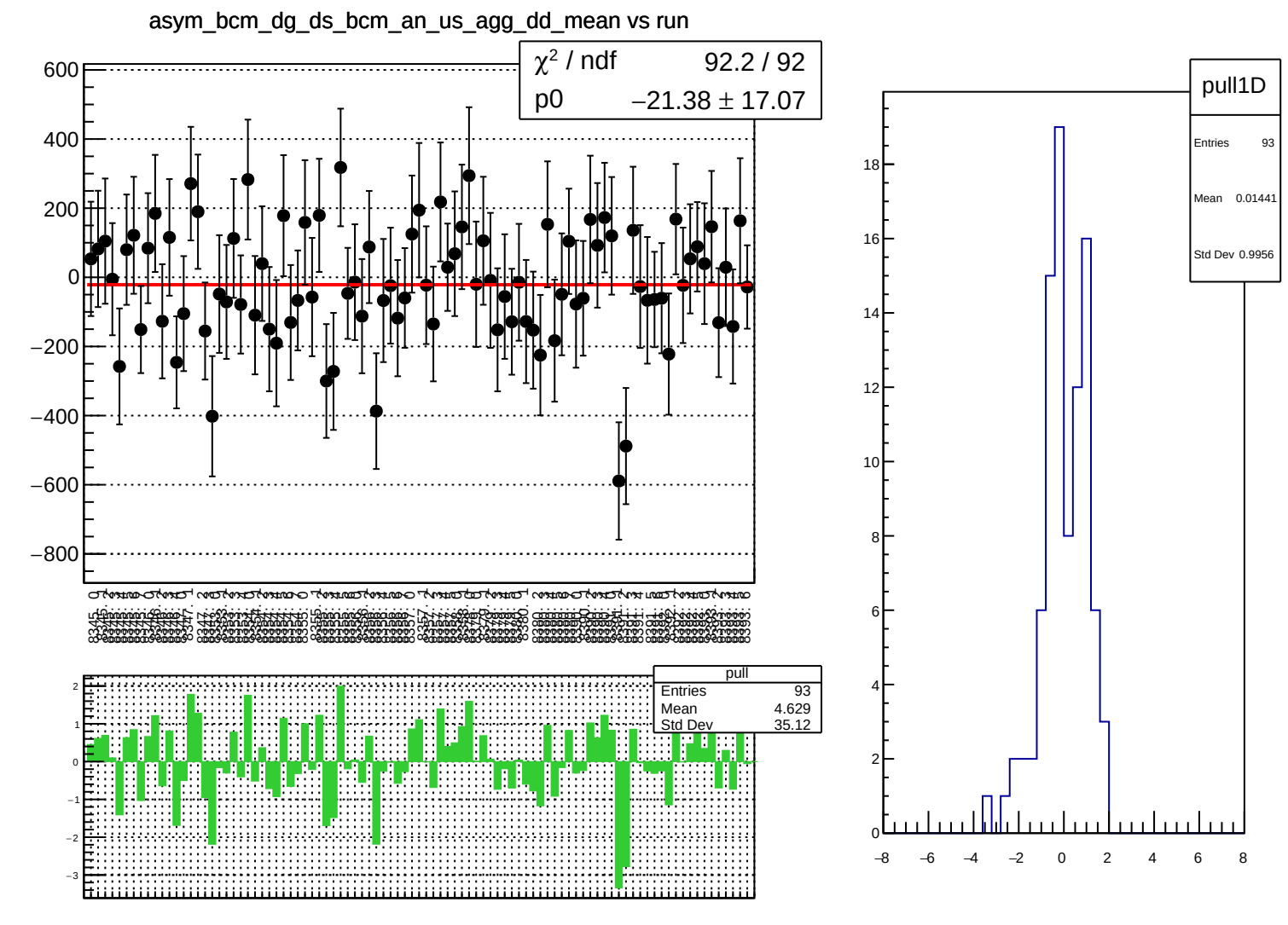

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 100.3 / 92
p0 −22.75 ± 22.92
1000
500
0
−500
−1000
pull
Entries 93
Mean −227.1
Std Dev 0
3
2
1
0
−1
−2
−3

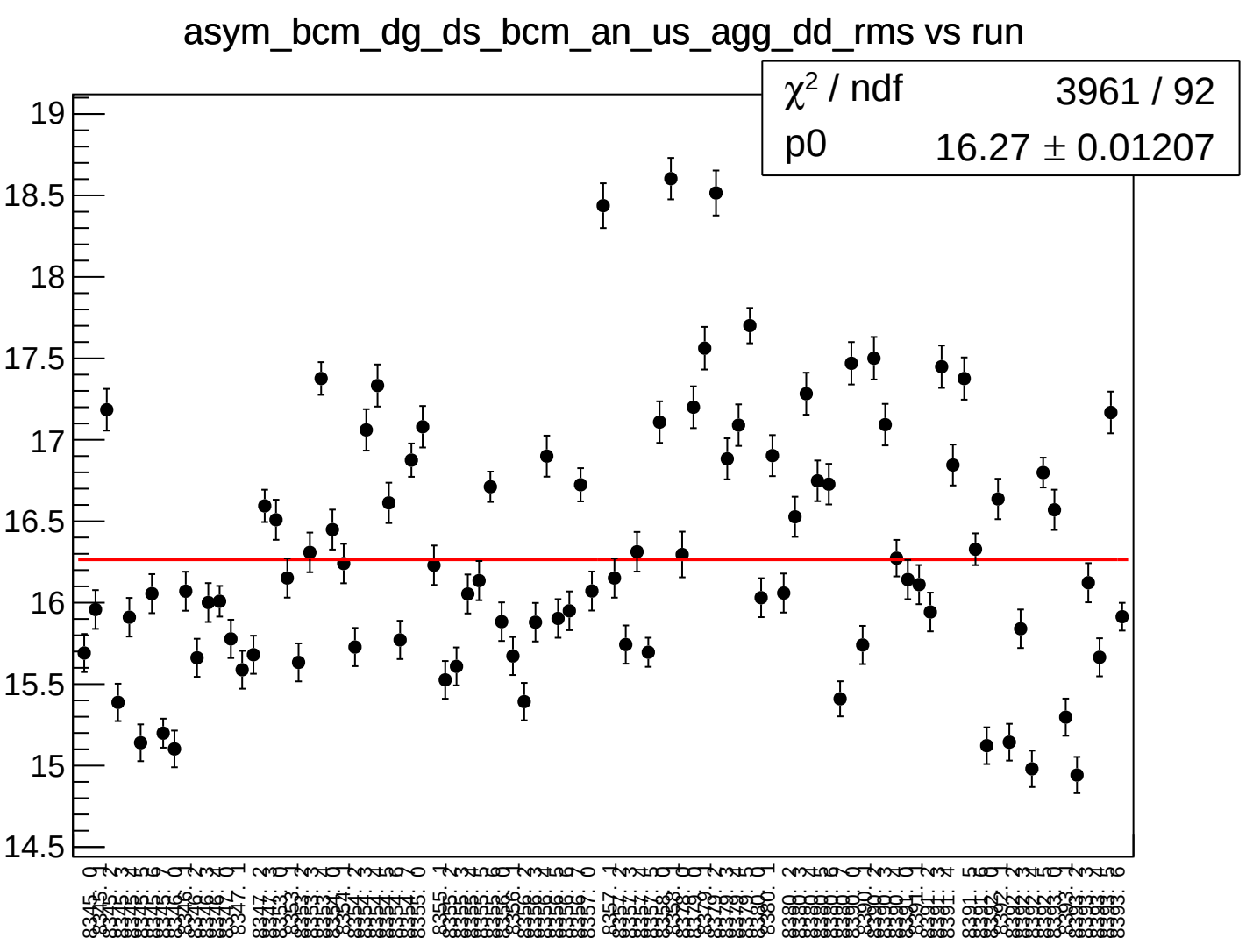

pull1D
Entries 93
Mean 0.003766
Std Dev 1.039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

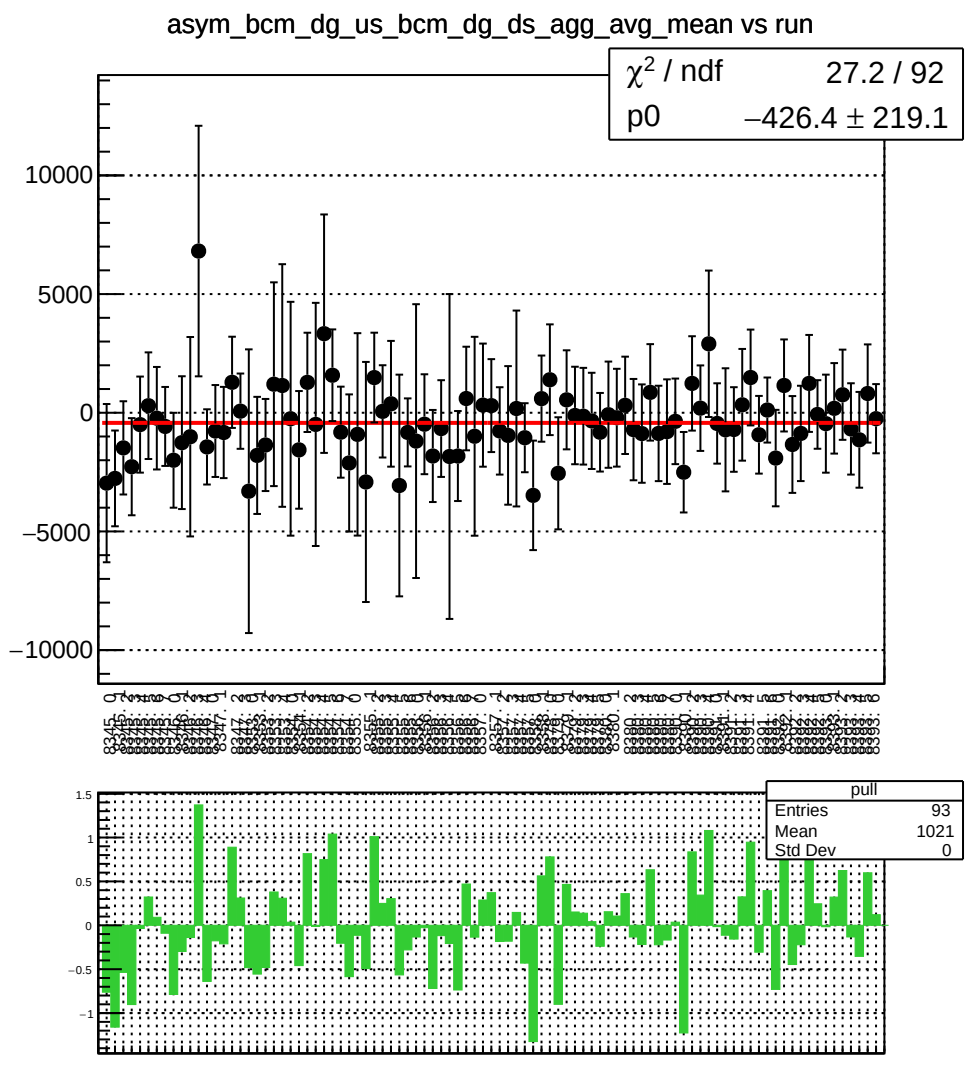

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1328 / 92
p0 21.85 ± 0.01621
24
23.5
23
22.5
22
21.5
21
20.5

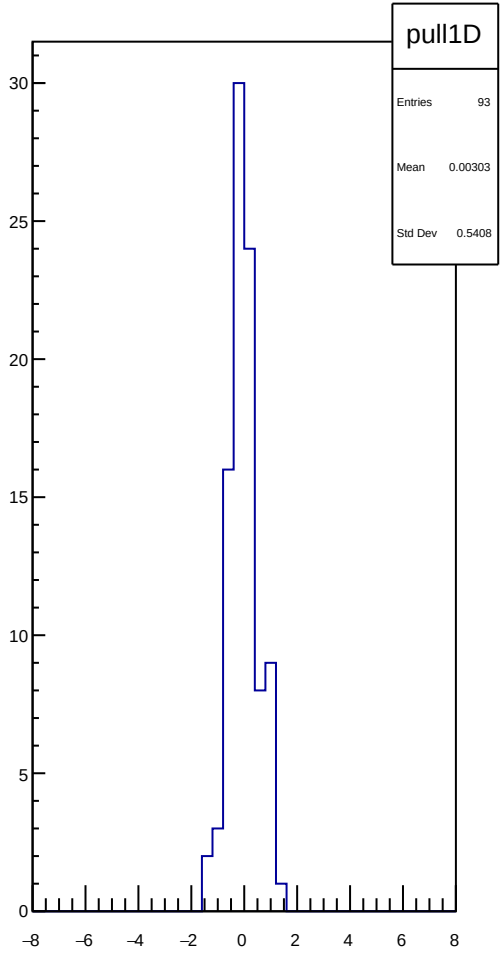

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 25.99 / 92
p0 −402.9 ± 218.1
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 1160
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 93
Mean 0.002713
Std Dev 0.5286
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

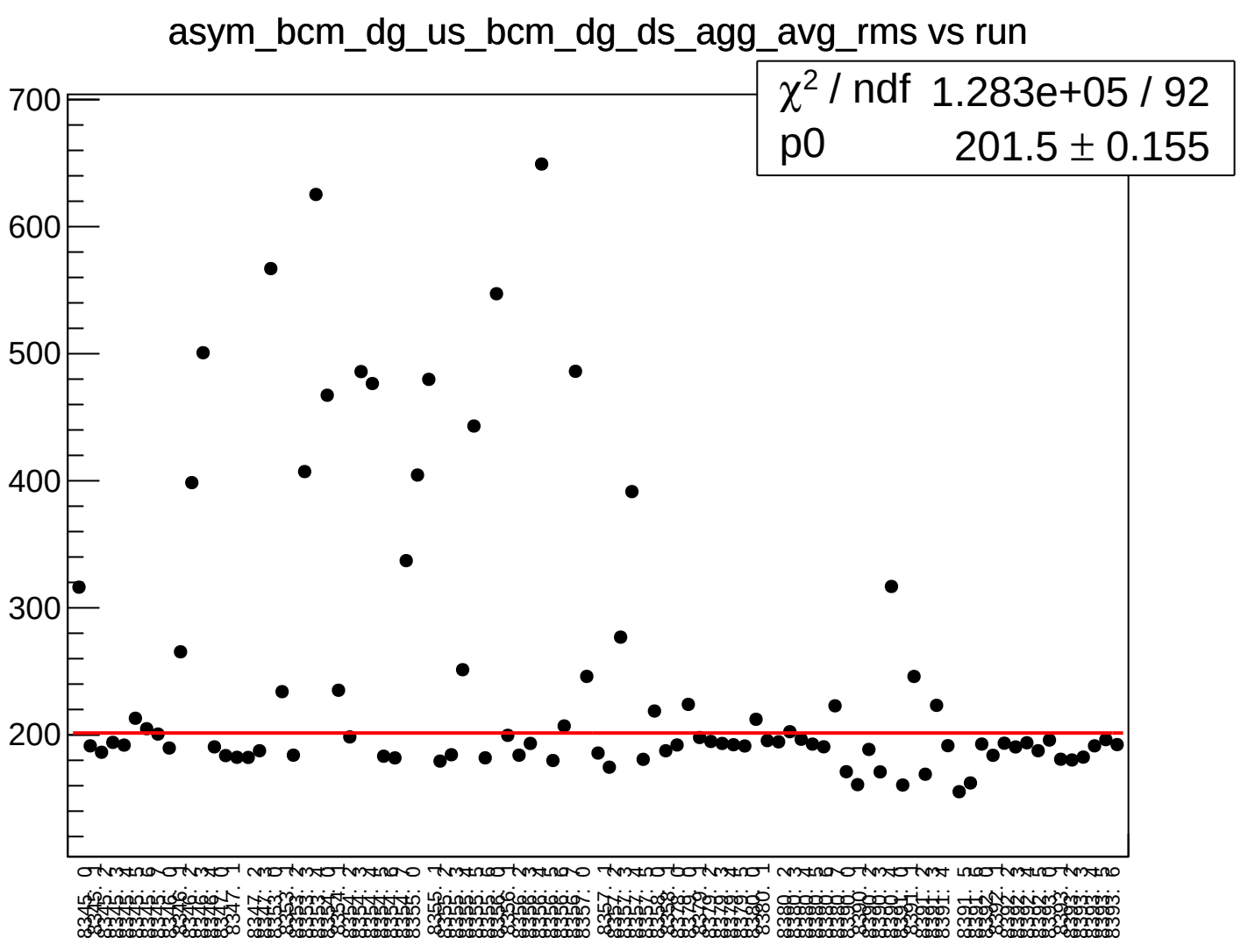

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.291e+05 / 92
p0 200.5 ± 0.1542
700
600
500
400
300
200

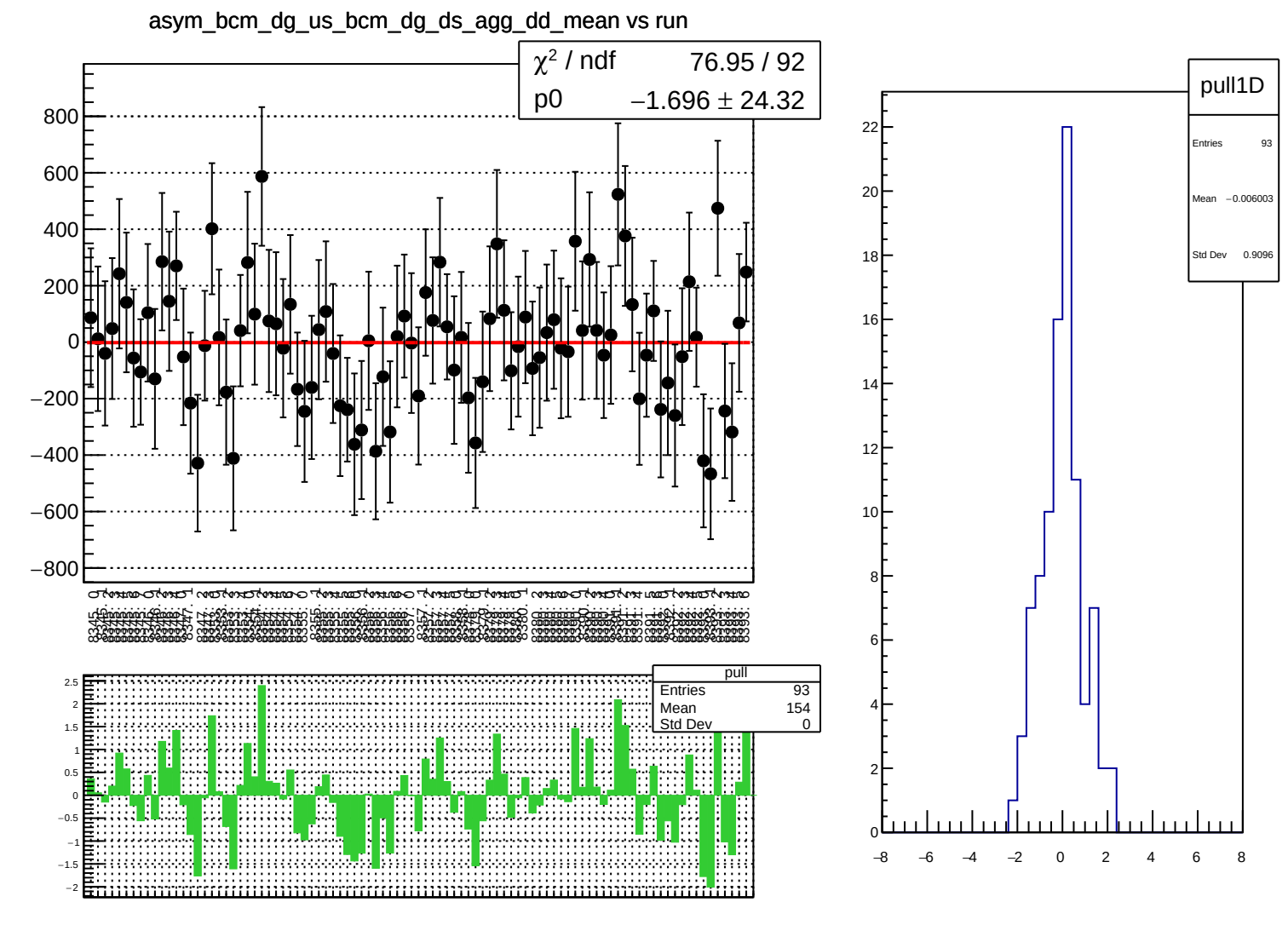

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 92.2 / 92
p0 −21.38 ± 17.07
pull
Entries 93
Mean 4.629
Std Dev 35.12
pull1D
Entries 93
Mean 0.01441
Std Dev 0.9956

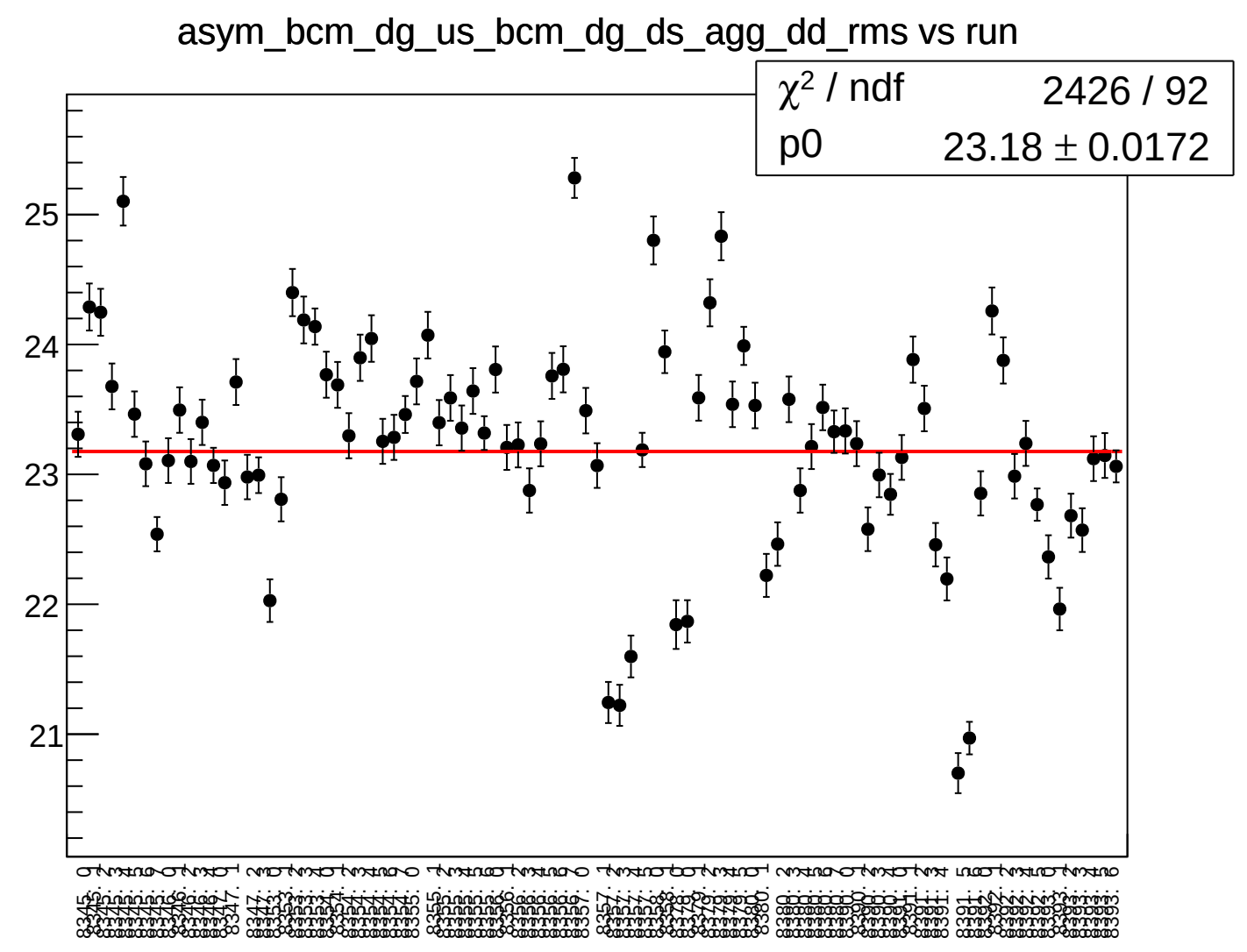

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 3961 / 92
p0 16.27 ± 0.01207
19
18.5
18
17.5
17
16.5
16
15.5
15
14.5

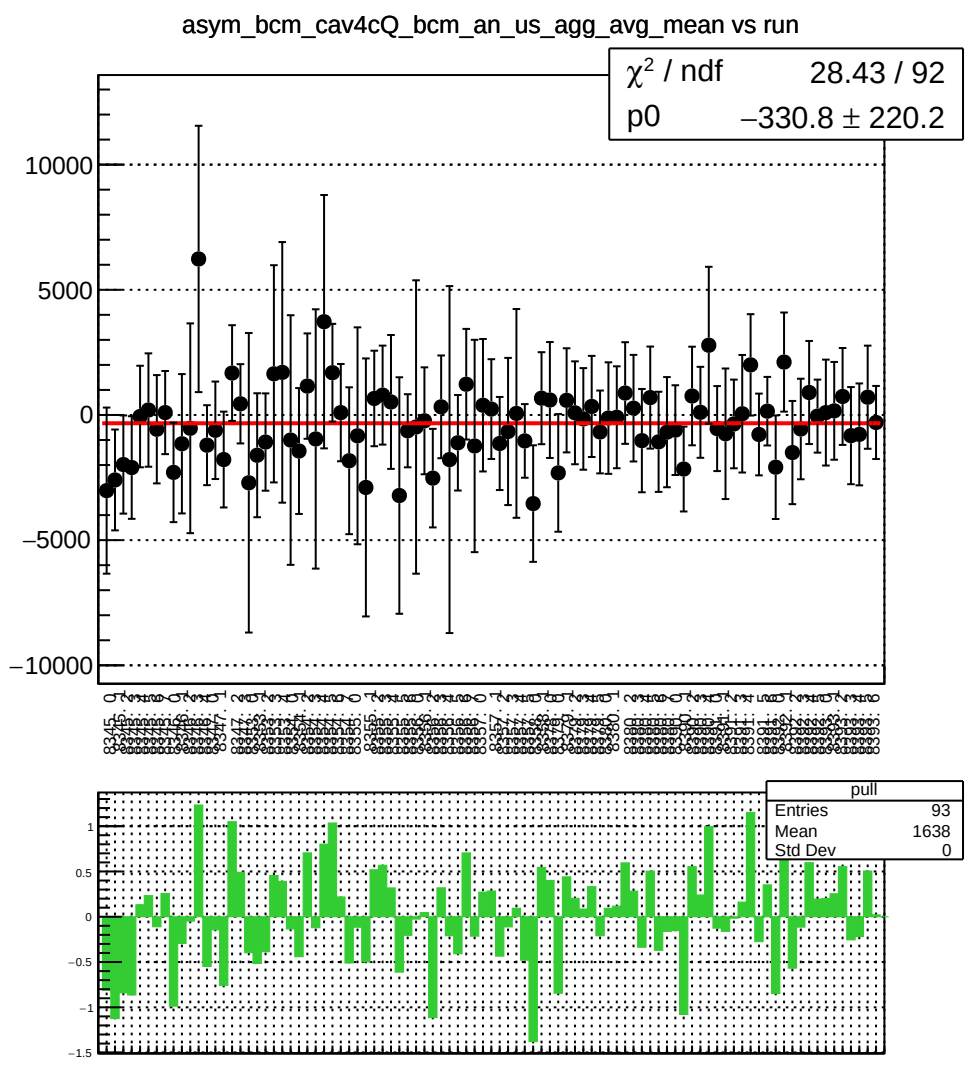

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 27.2 / 92
p0 −426.4 ± 219.1
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 1021
Std Dev 0
1.5
1
0.5
0
−0.5
−1

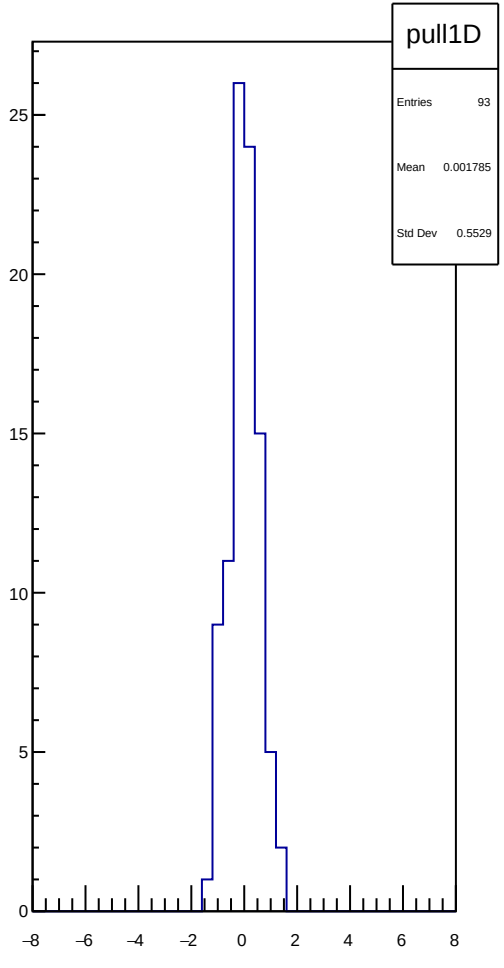

pull1D
Entries 93
Mean 0.00303
Std Dev 0.5408
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

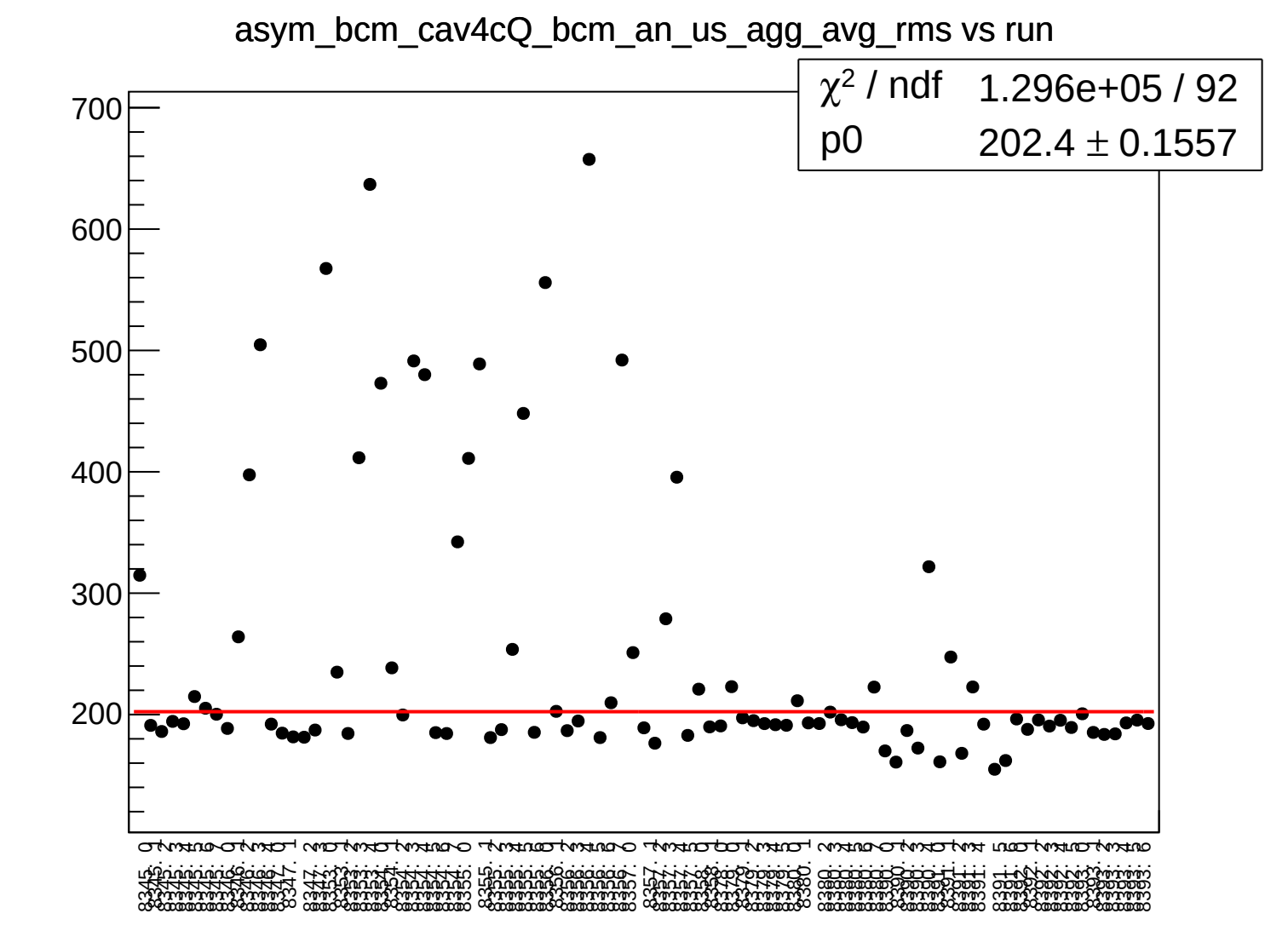

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1.283e+05 / 92
p0 201.5 ± 0.155
700
600
500
400
300
200

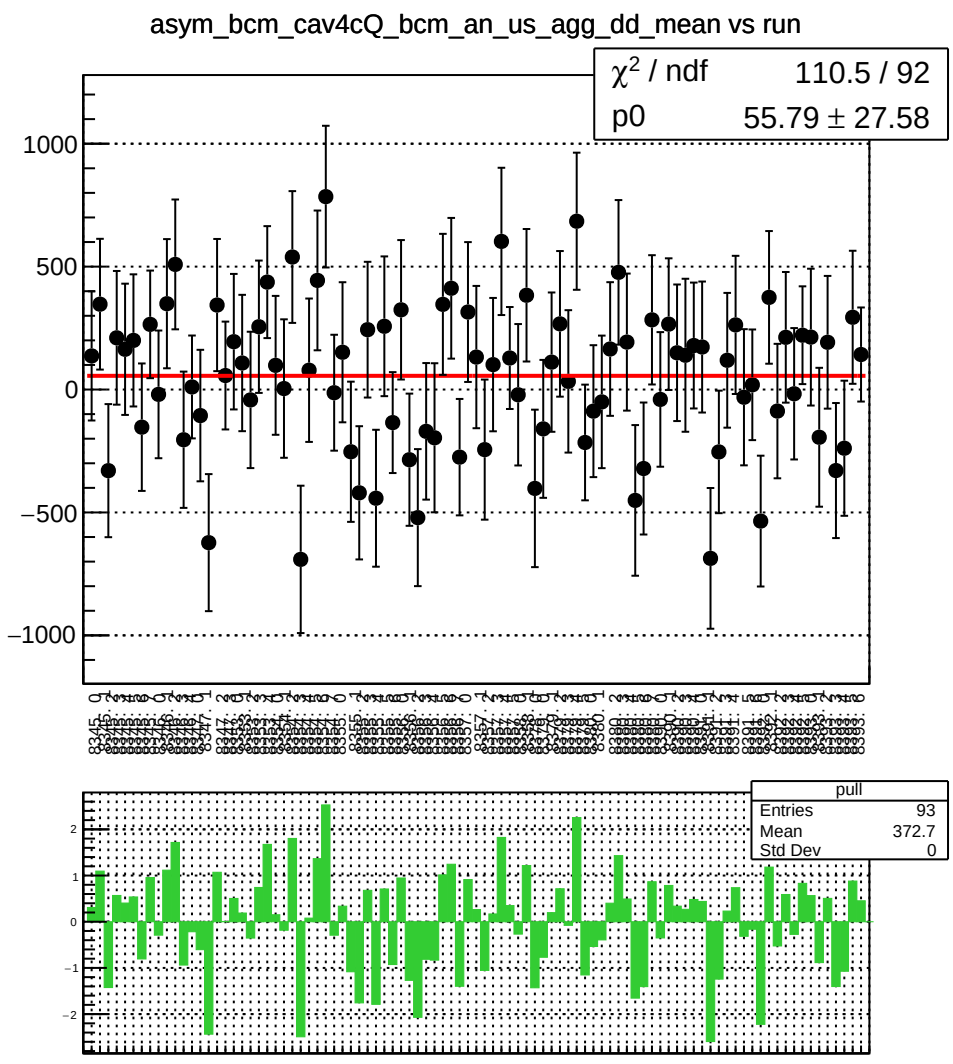

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 76.95 / 92
p0 −1.696 ± 24.32
pull
Entries 93
Mean 154
Std Dev 0
pull1D
Entries 93
Mean −0.006003
Std Dev 0.9096

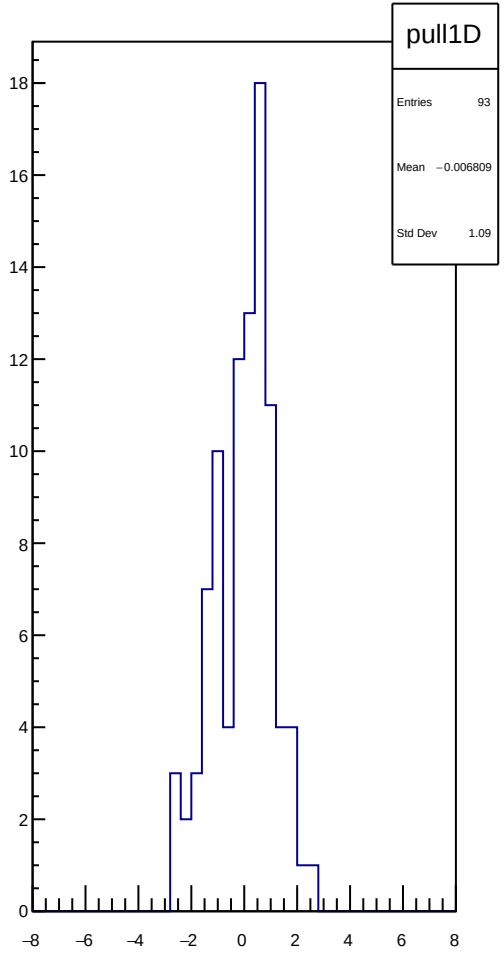

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2426 / 92
p0 23.18 ± 0.0172
25
24
23
22
21

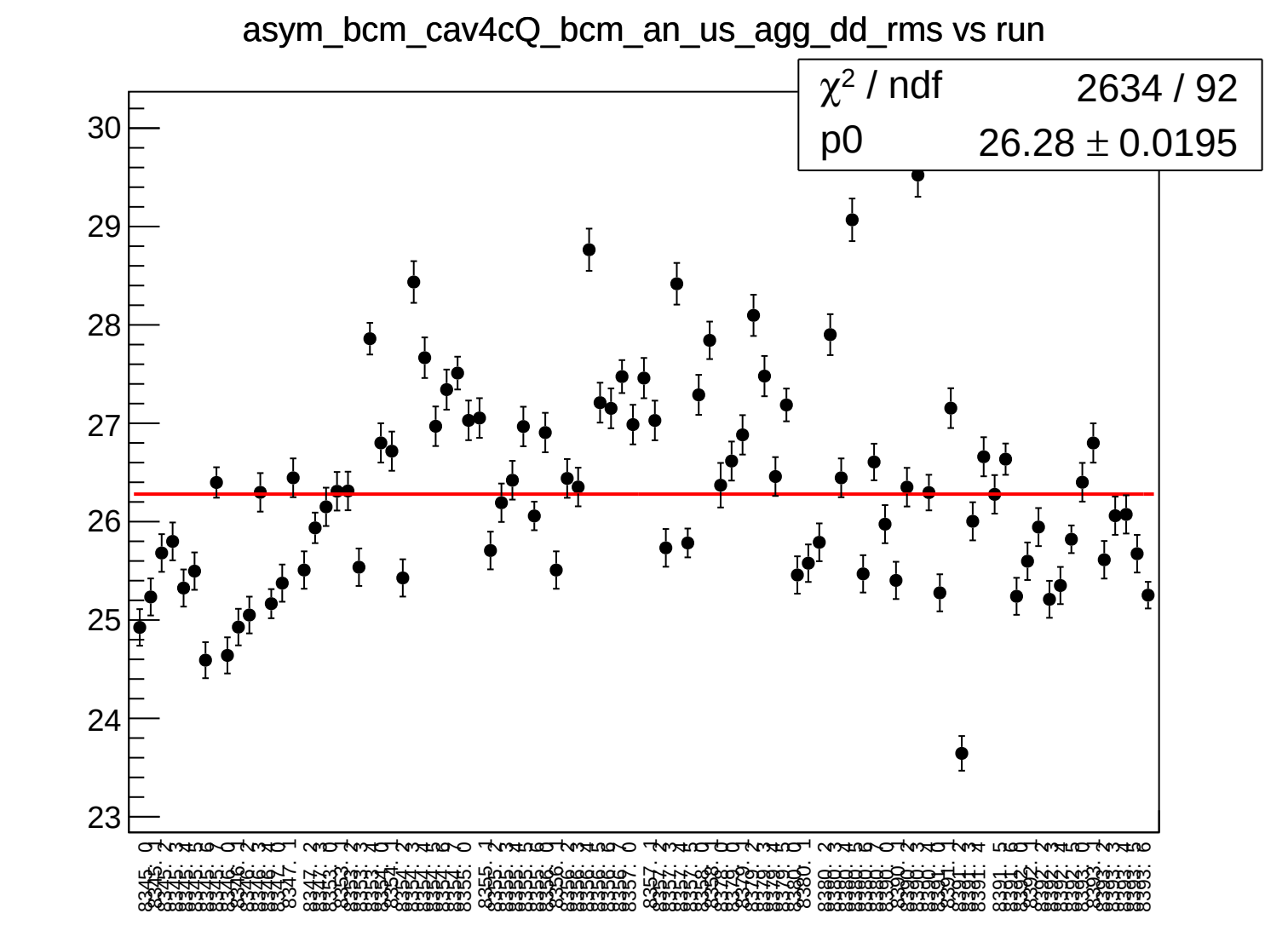

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 28.43 / 92
p0 −330.8 ± 220.2
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 1638
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

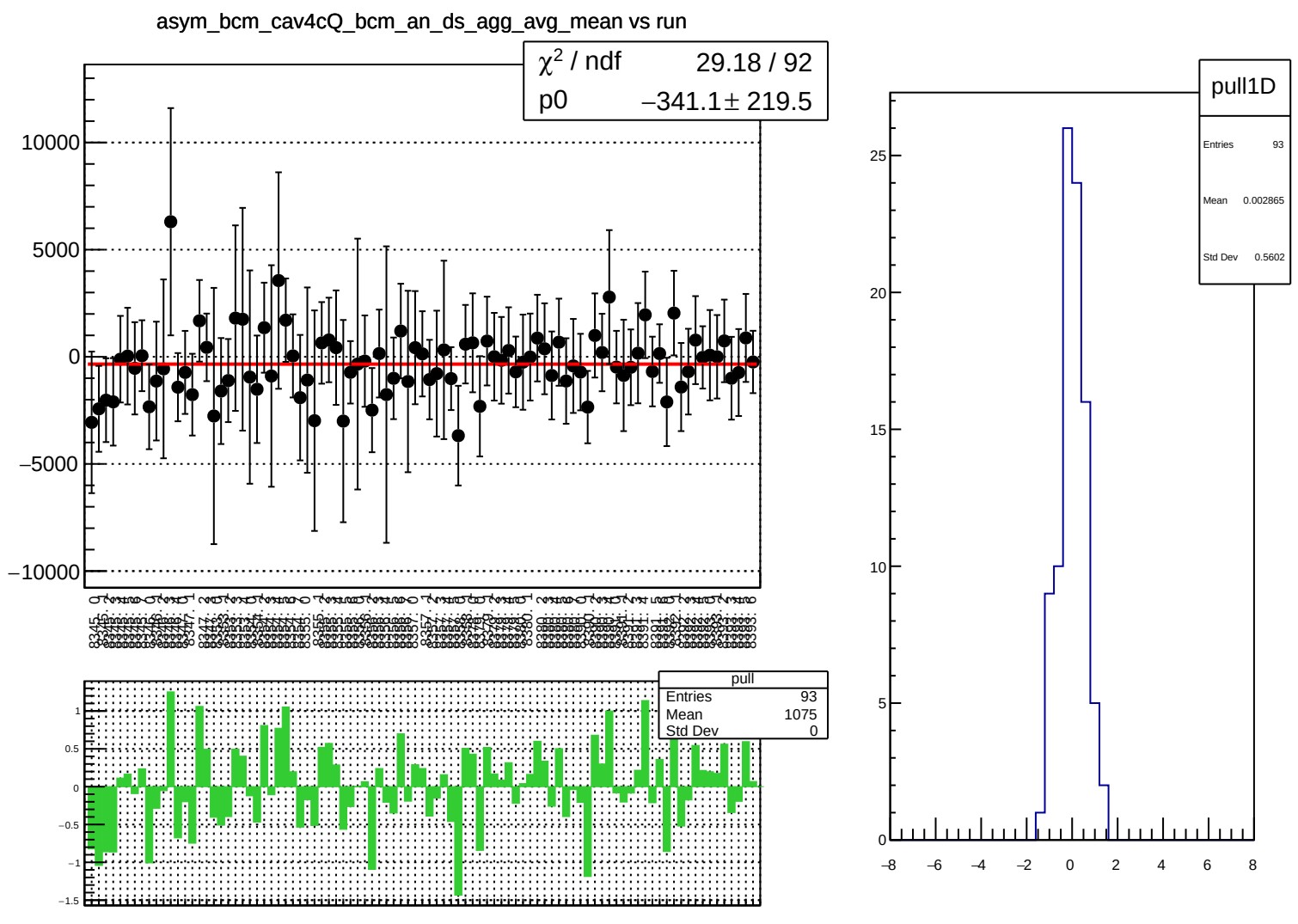

pull1D
Entries 93
Mean 0.001785
Std Dev 0.5529
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

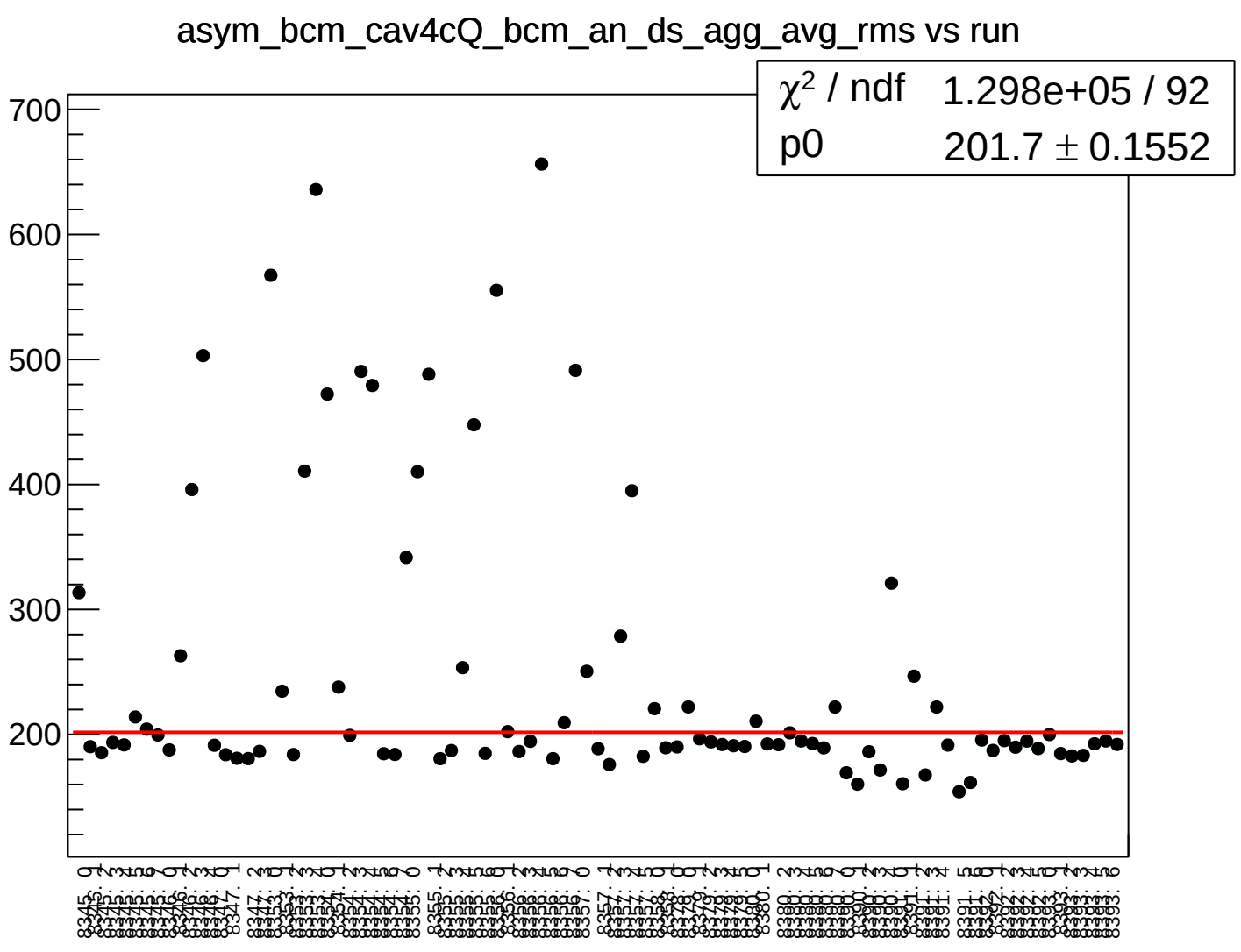

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.296e+05 / 92
p0 202.4 ± 0.1557
700
600
500
400
300
200

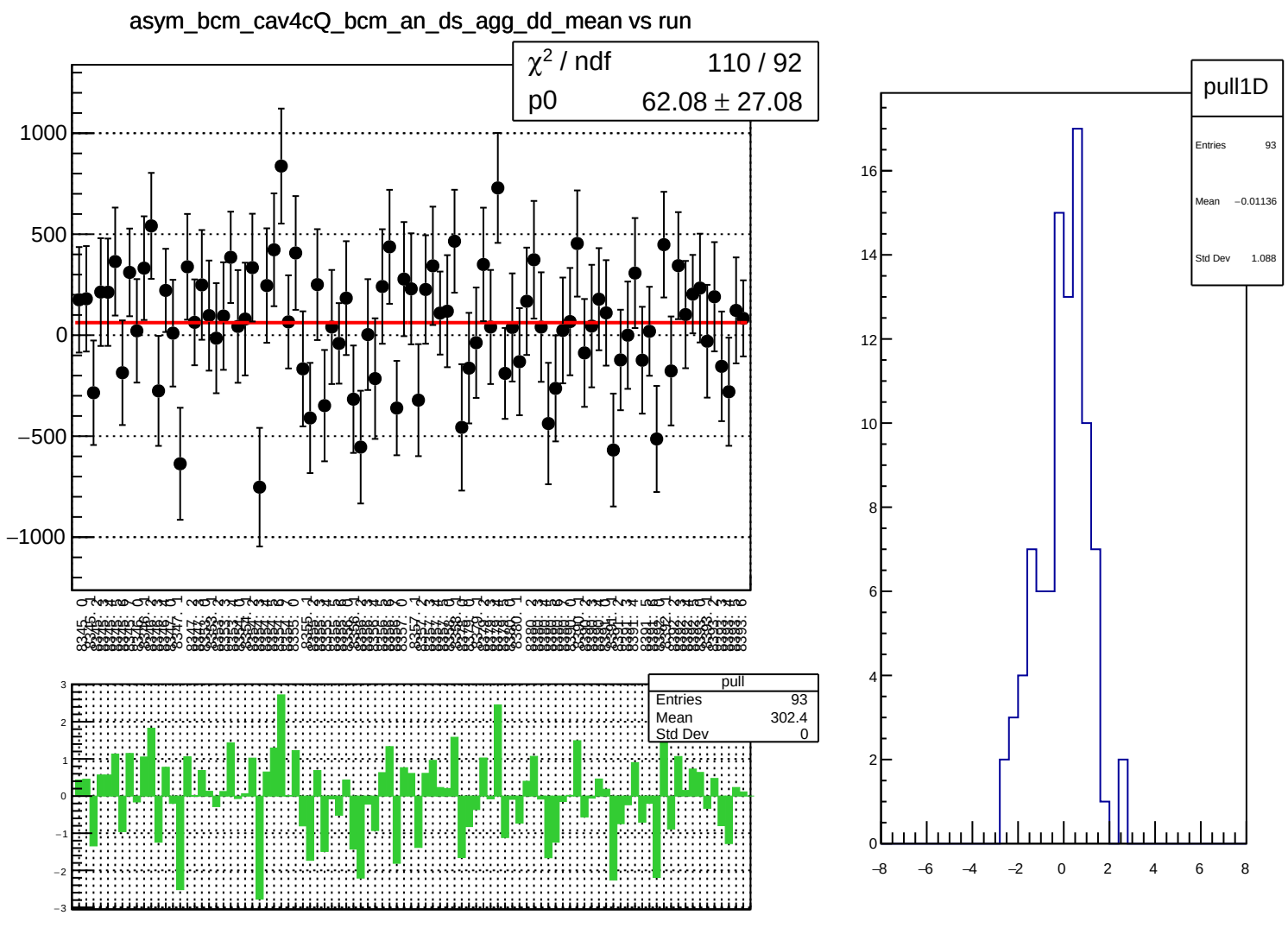

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 110.5 / 92
p0 55.79 ± 27.58
1000
500
0
−500
−1000
pull
Entries 93
Mean 372.7
Std Dev 0
2
1
0
−1
−2

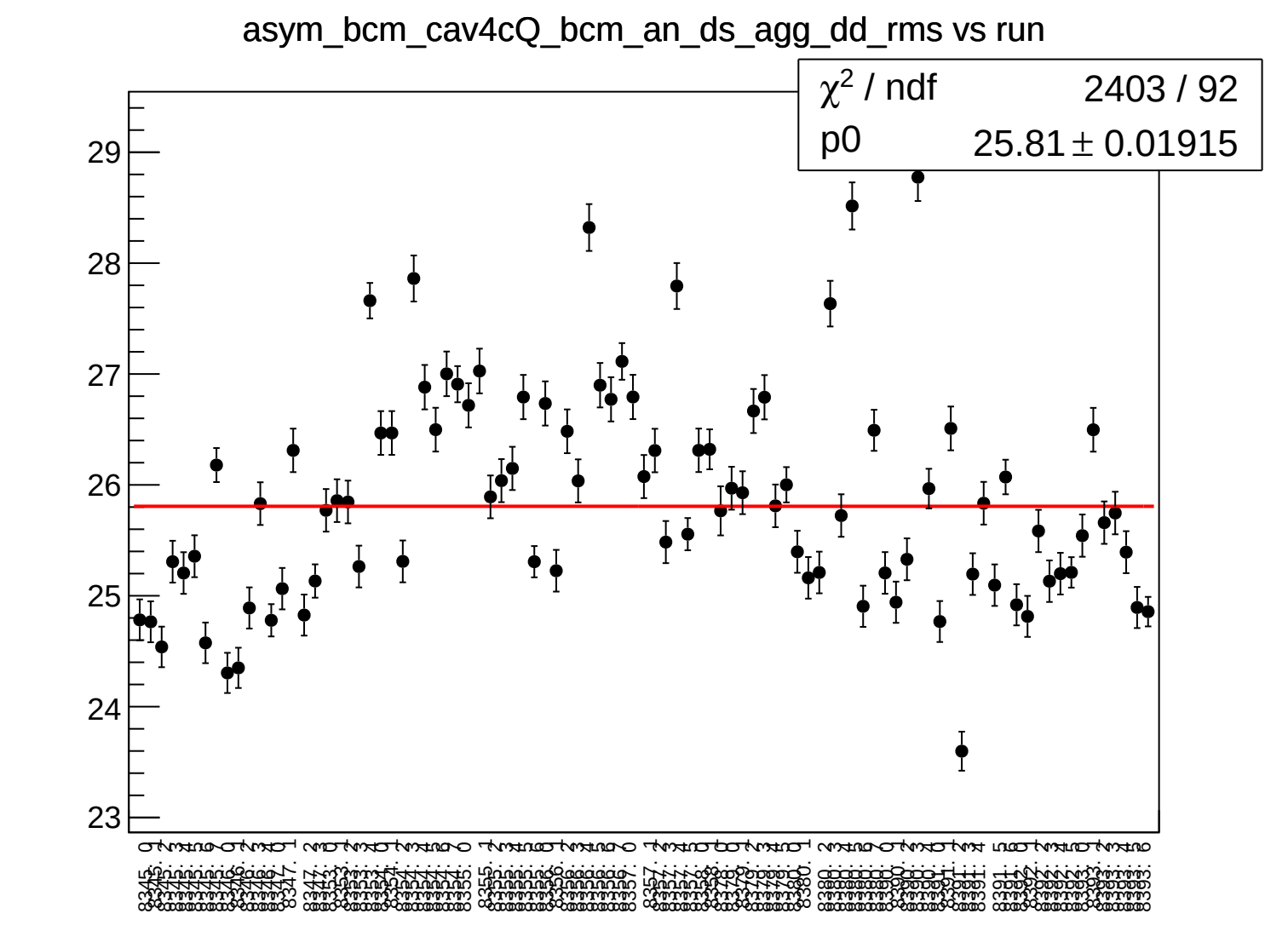

pull1D
Entries 93
Mean −0.006809
Std Dev 1.09
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

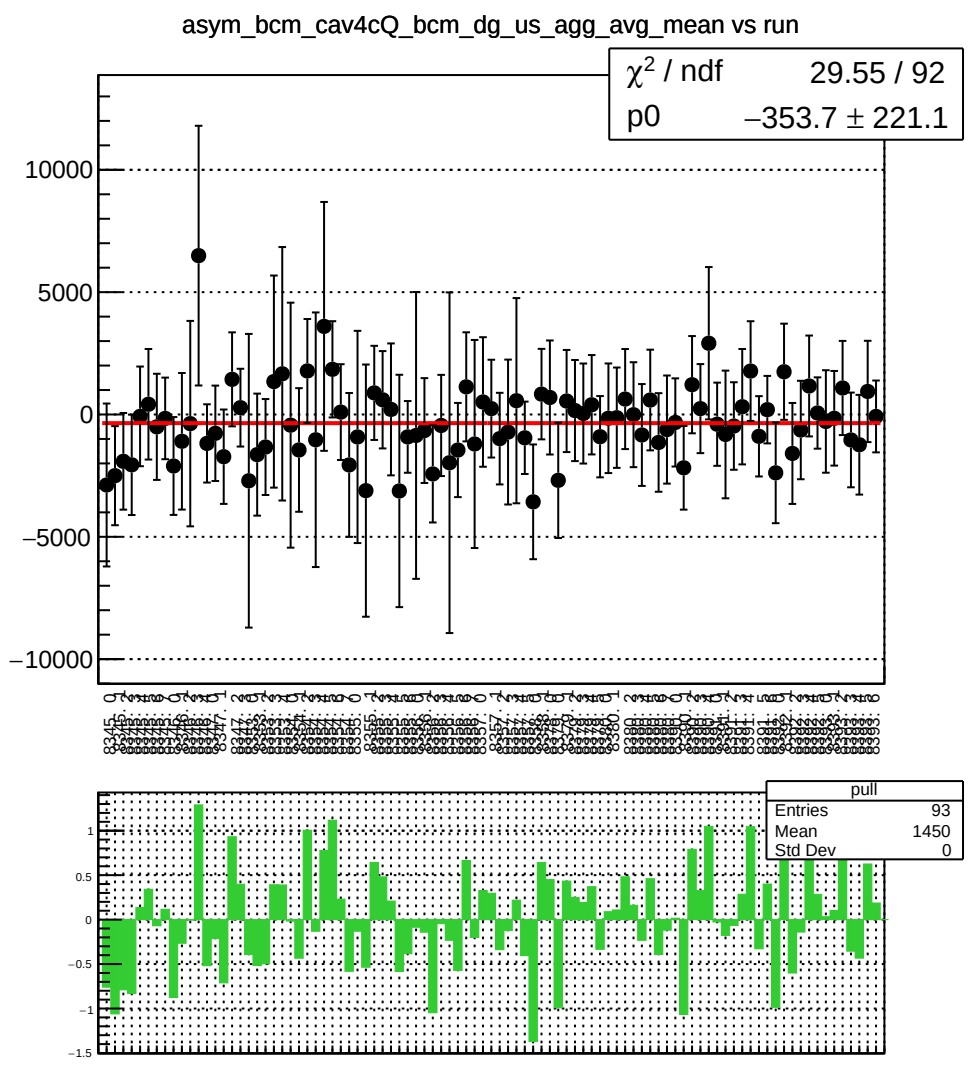

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2634 / 92
p0 26.28 ± 0.0195
30
29
28
27
26
25
24
23

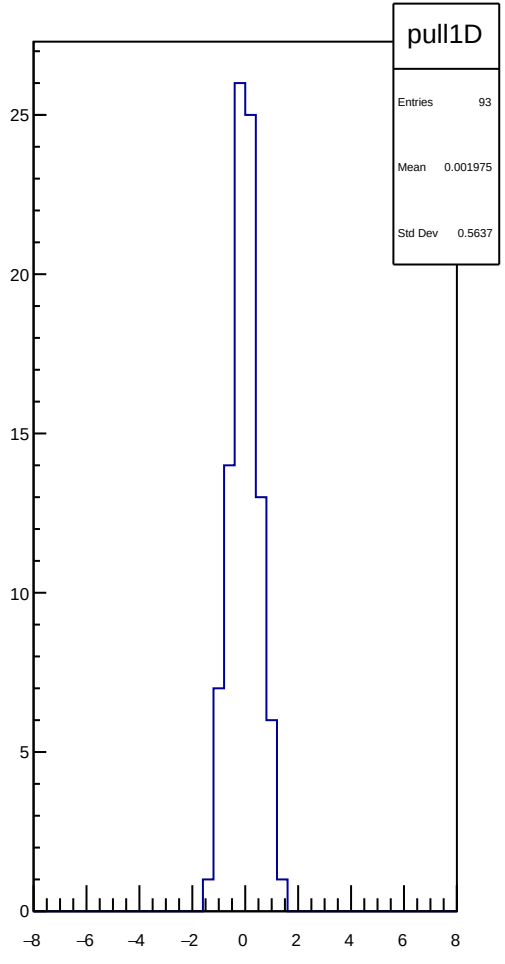

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 29.18 / 92
p0 −341.1± 219.5
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 1075
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean 0.002865
Std Dev 0.5602
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

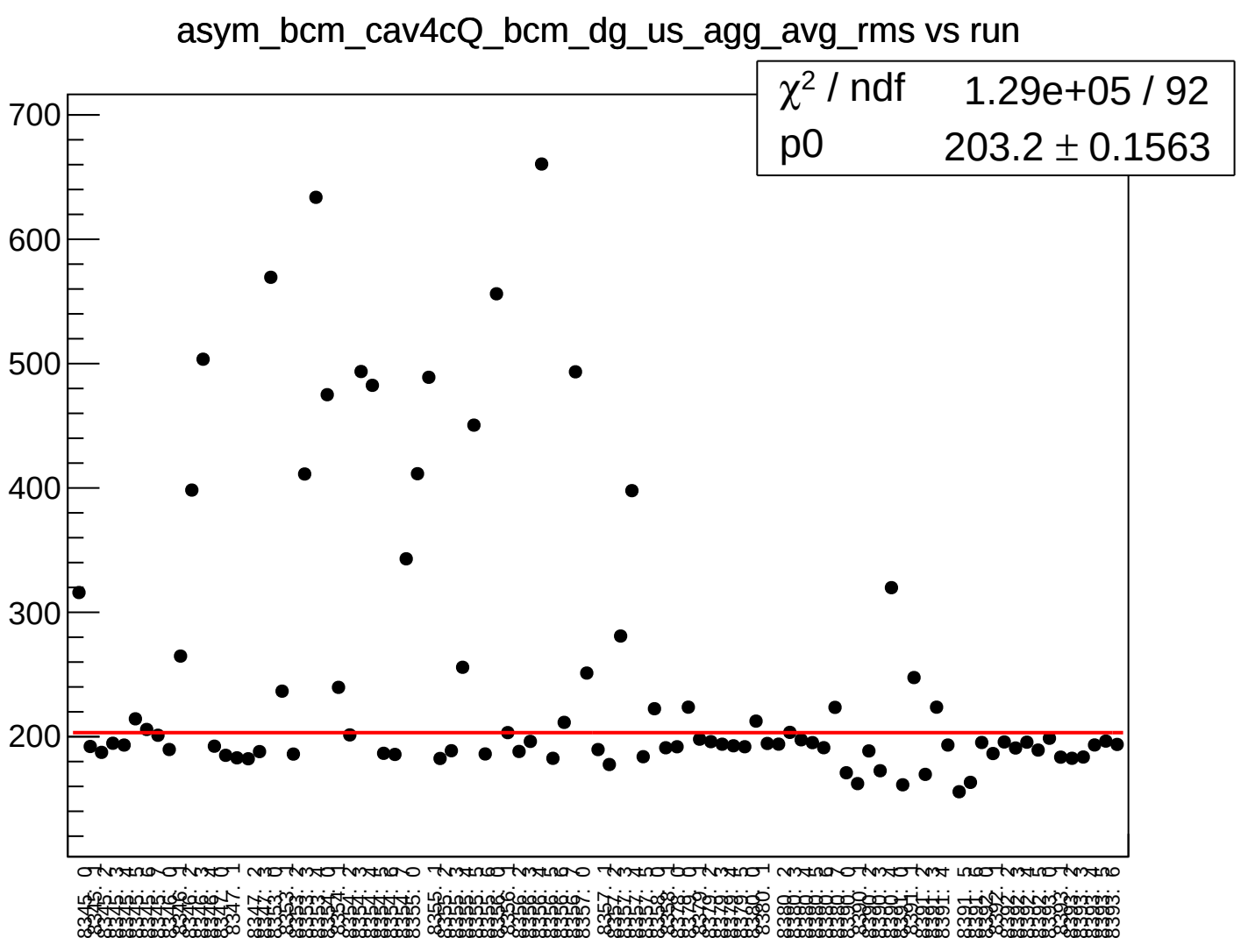

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.298e+05 / 92
p0 201.7 ± 0.1552
700
600
500
400
300
200

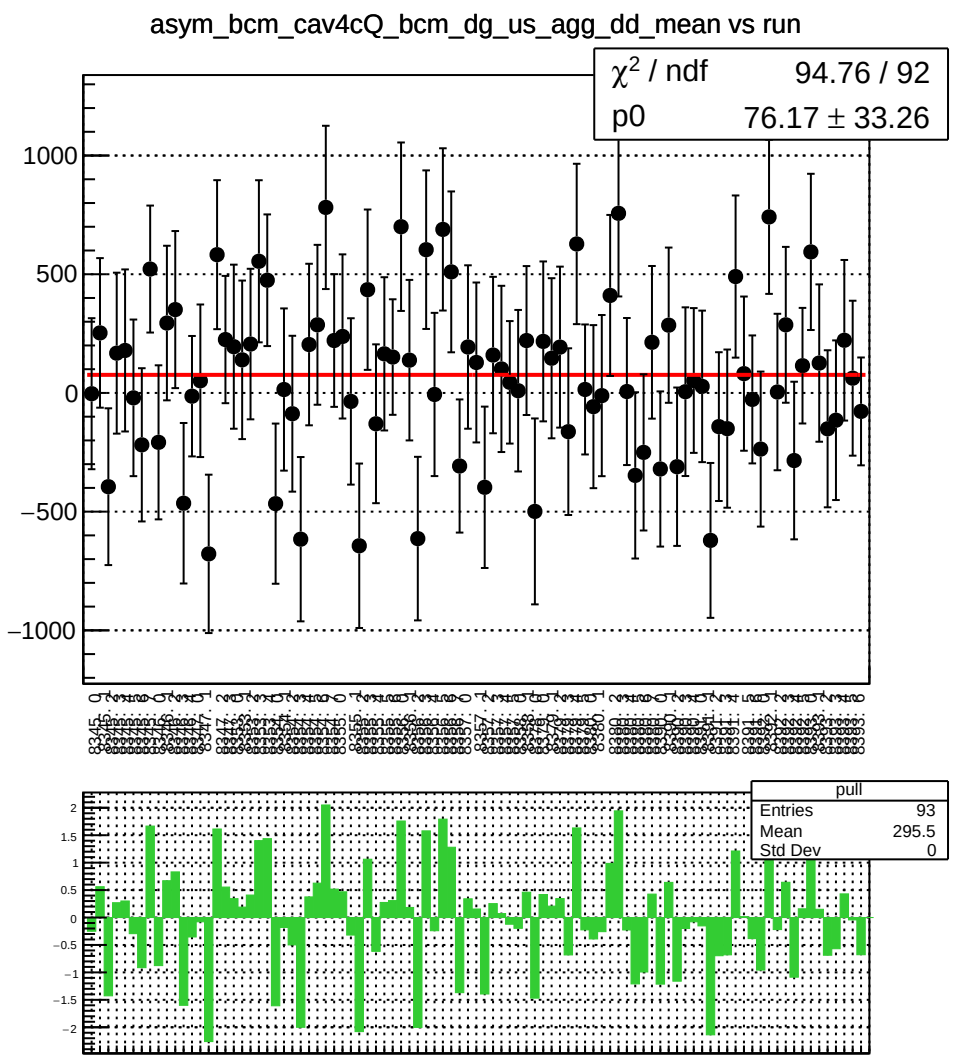

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 110 / 92
p0 62.08 ± 27.08
1000
500
0
−500
−1000
pull
Entries 93
Mean 302.4
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.01136
Std Dev 1.088
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

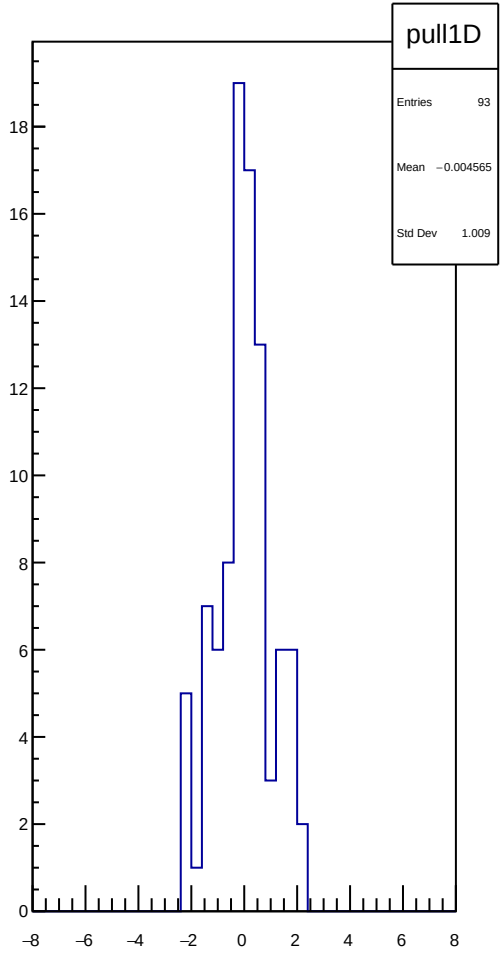

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2403 / 92
p0 25.81 ± 0.01915
29
28
27
26
25
24
23

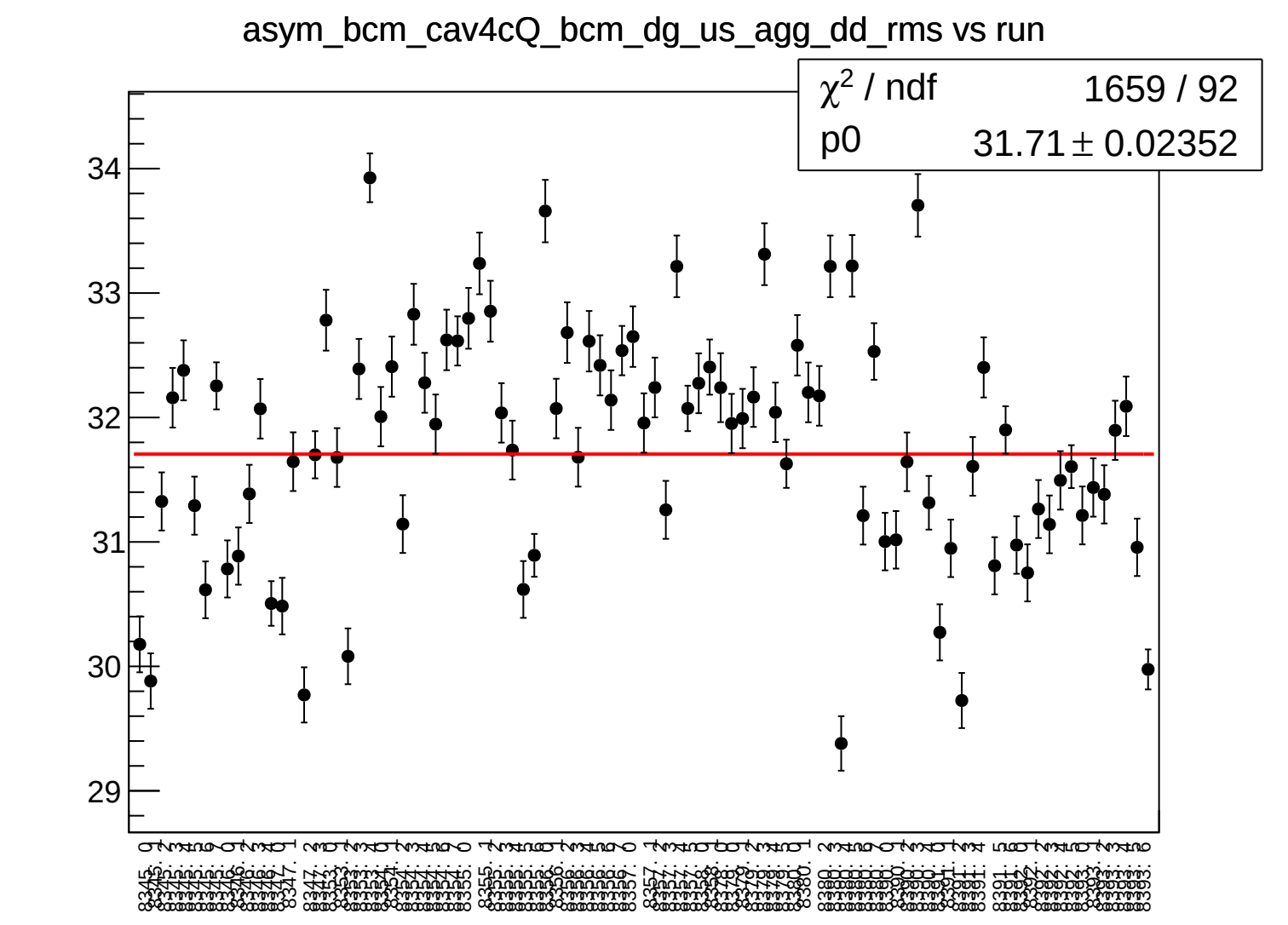

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 29.55 / 92
p0 −353.7 ± 221.1
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 1450
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

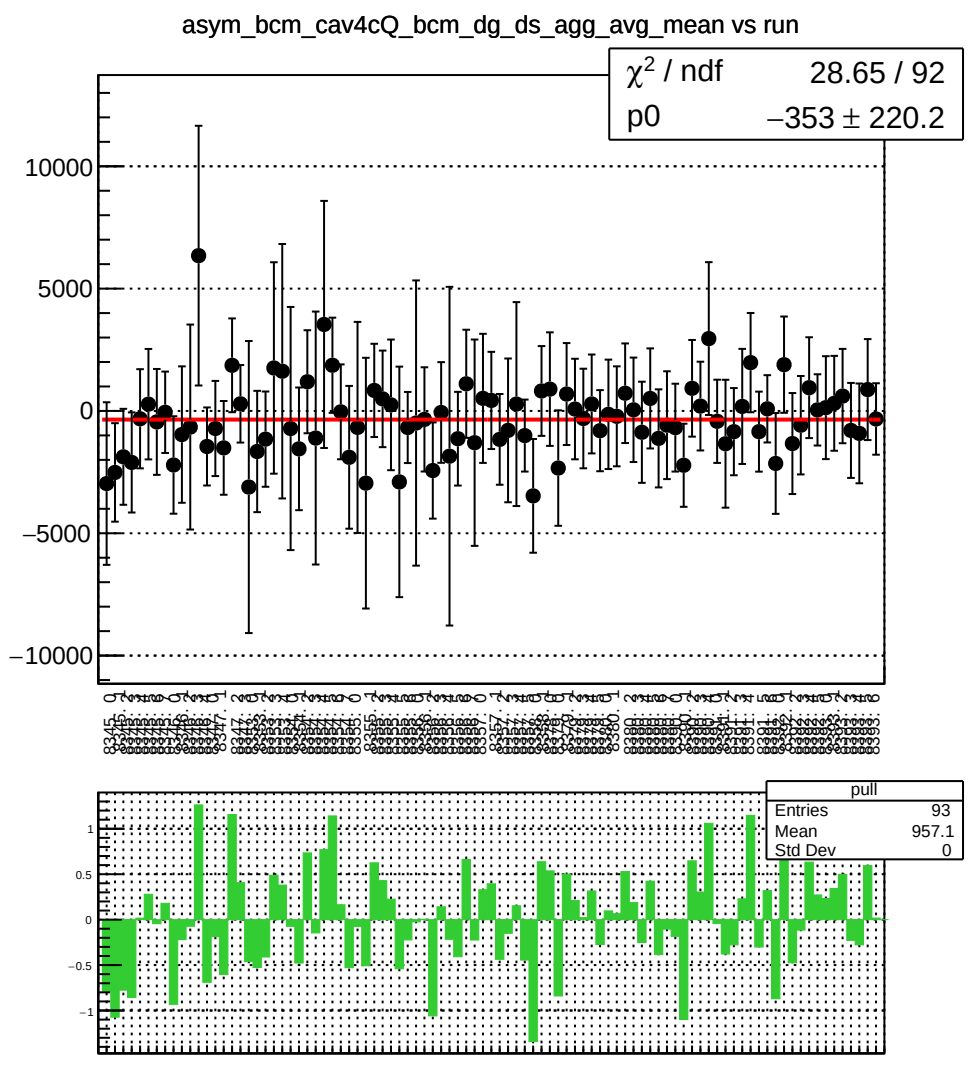

pull1D
Entries 93
Mean 0.001975
Std Dev 0.5637
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

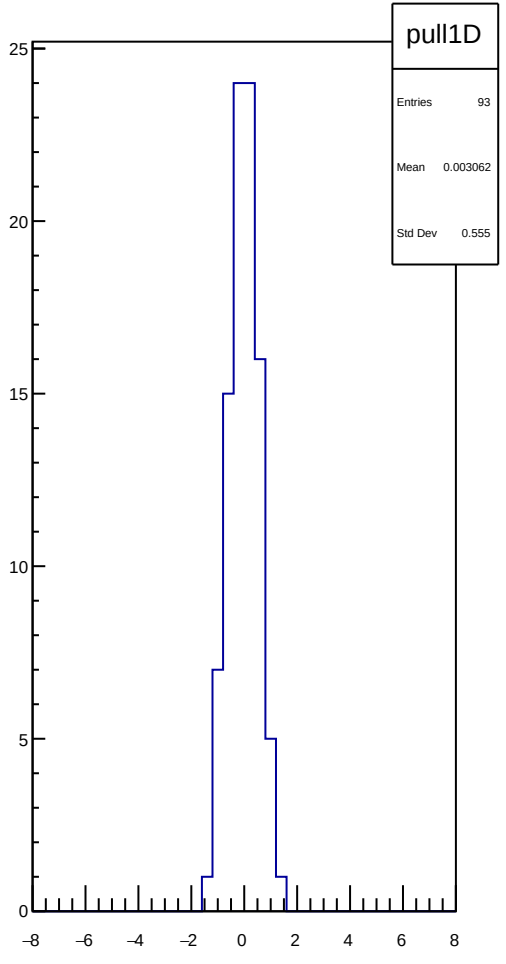

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 1.29e+05 / 92
p0 203.2 ± 0.1563
700
600
500
400
300
200

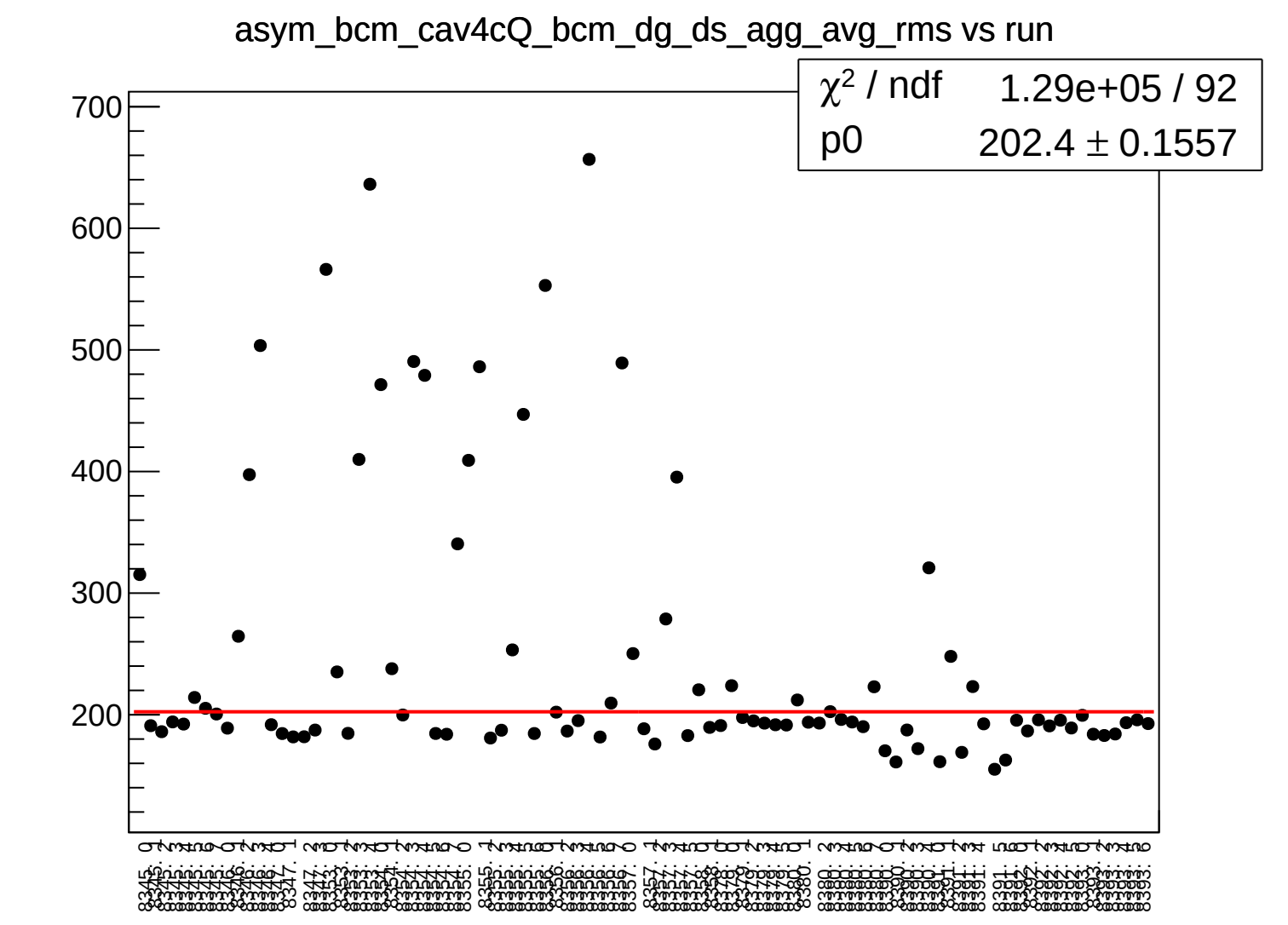

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 94.76 / 92
p0 76.17 ± 33.26
1000
500
0
−500
−1000
pull
Entries 93
Mean 295.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

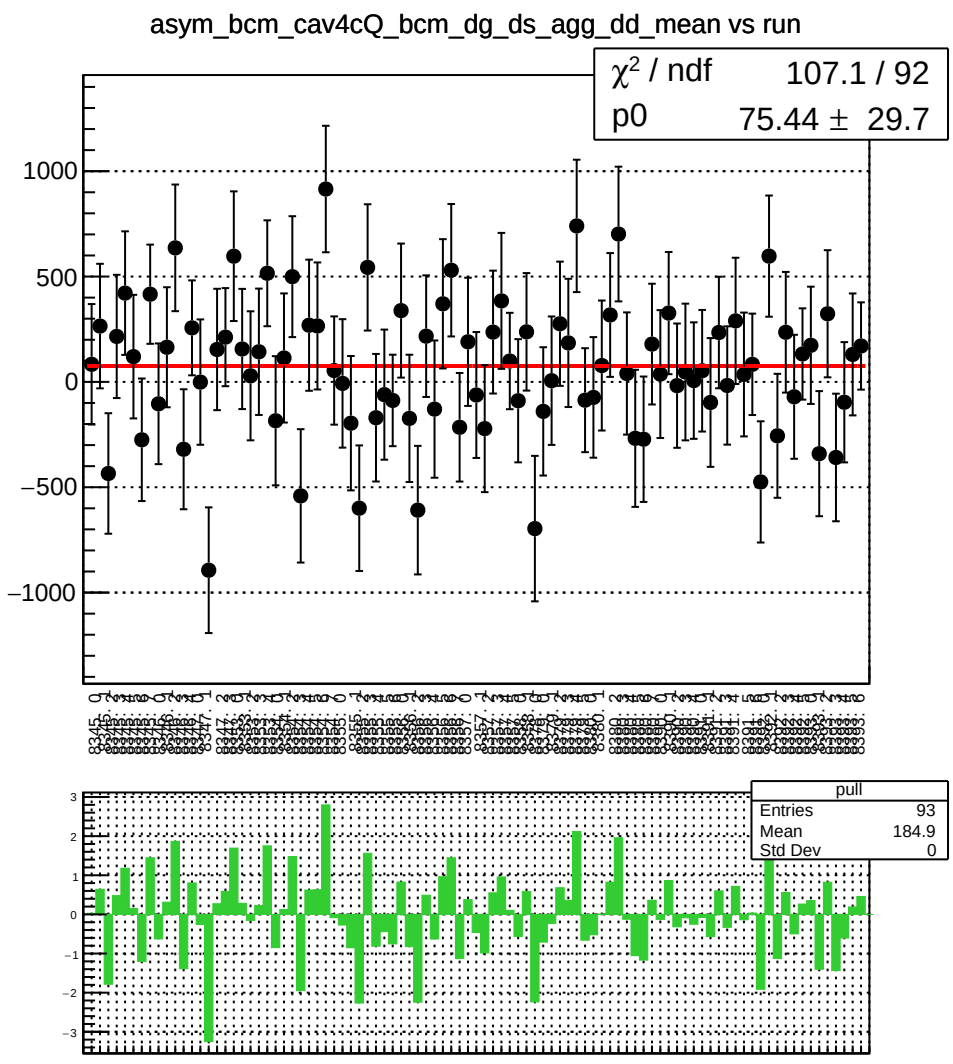

pull1D
Entries 93
Mean −0.004565
Std Dev 1.009
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

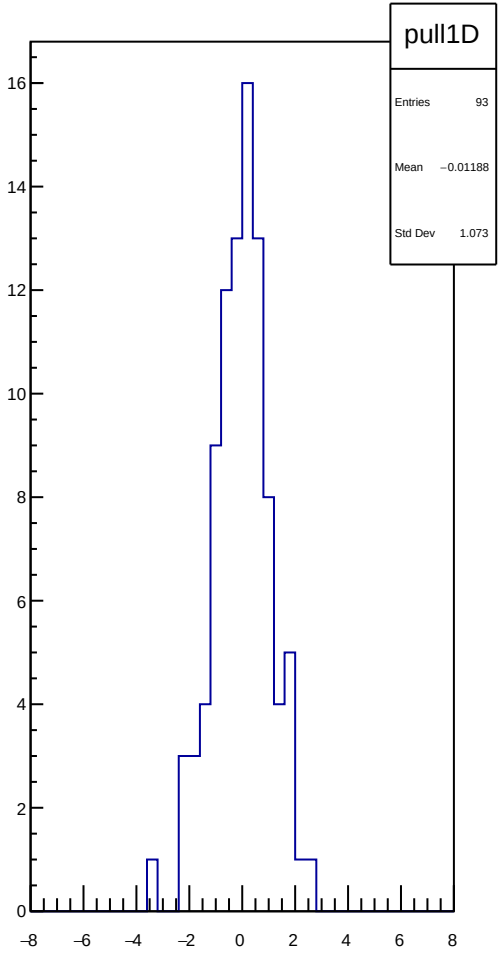

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1659 / 92
p0 31.71 ± 0.02352
34
33
32
31
30
29

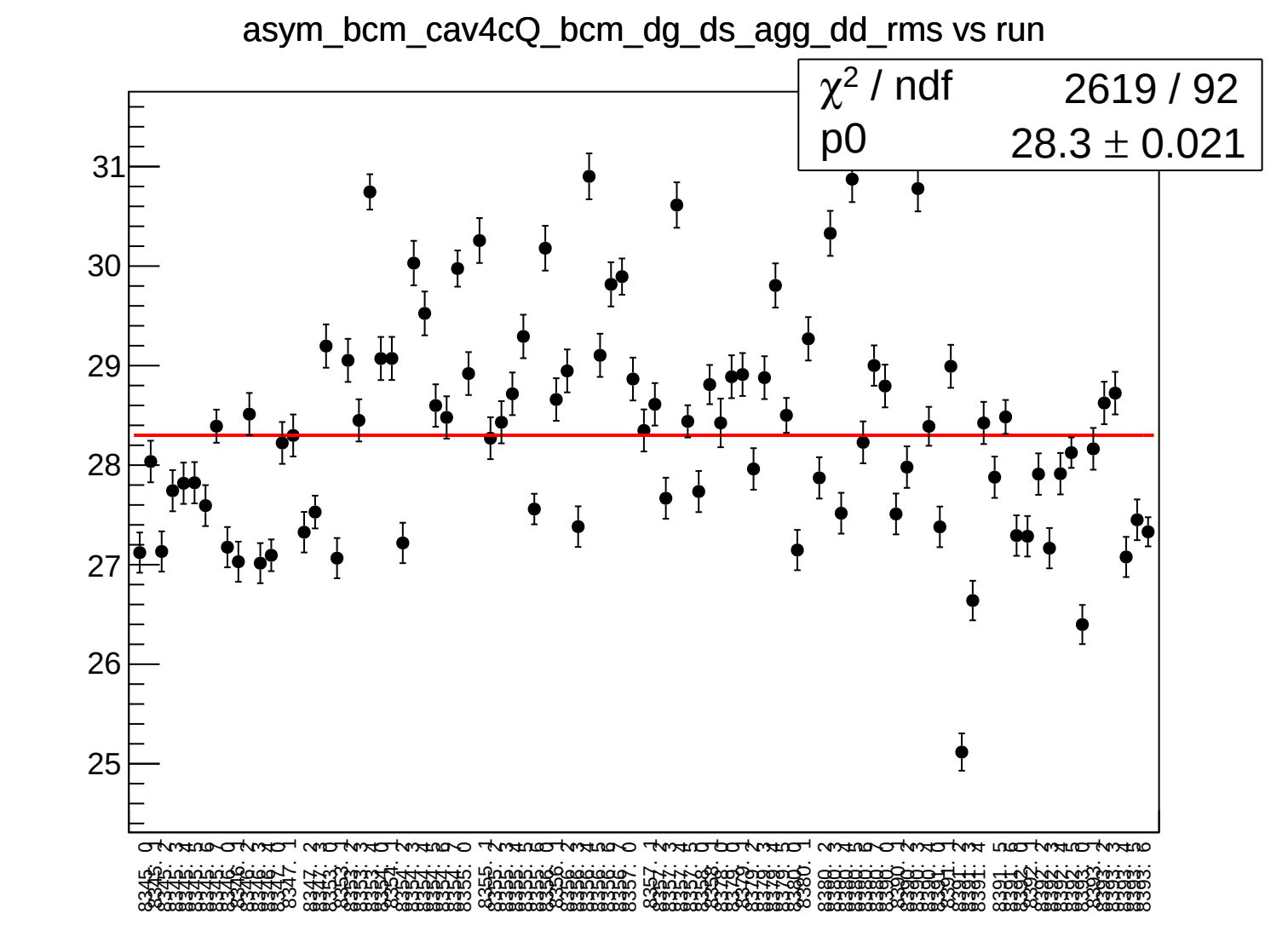

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 28.65 / 92
p0 −353 ± 220.2
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 957.1
Std Dev 0
1
0.5
0
−0.5
−1

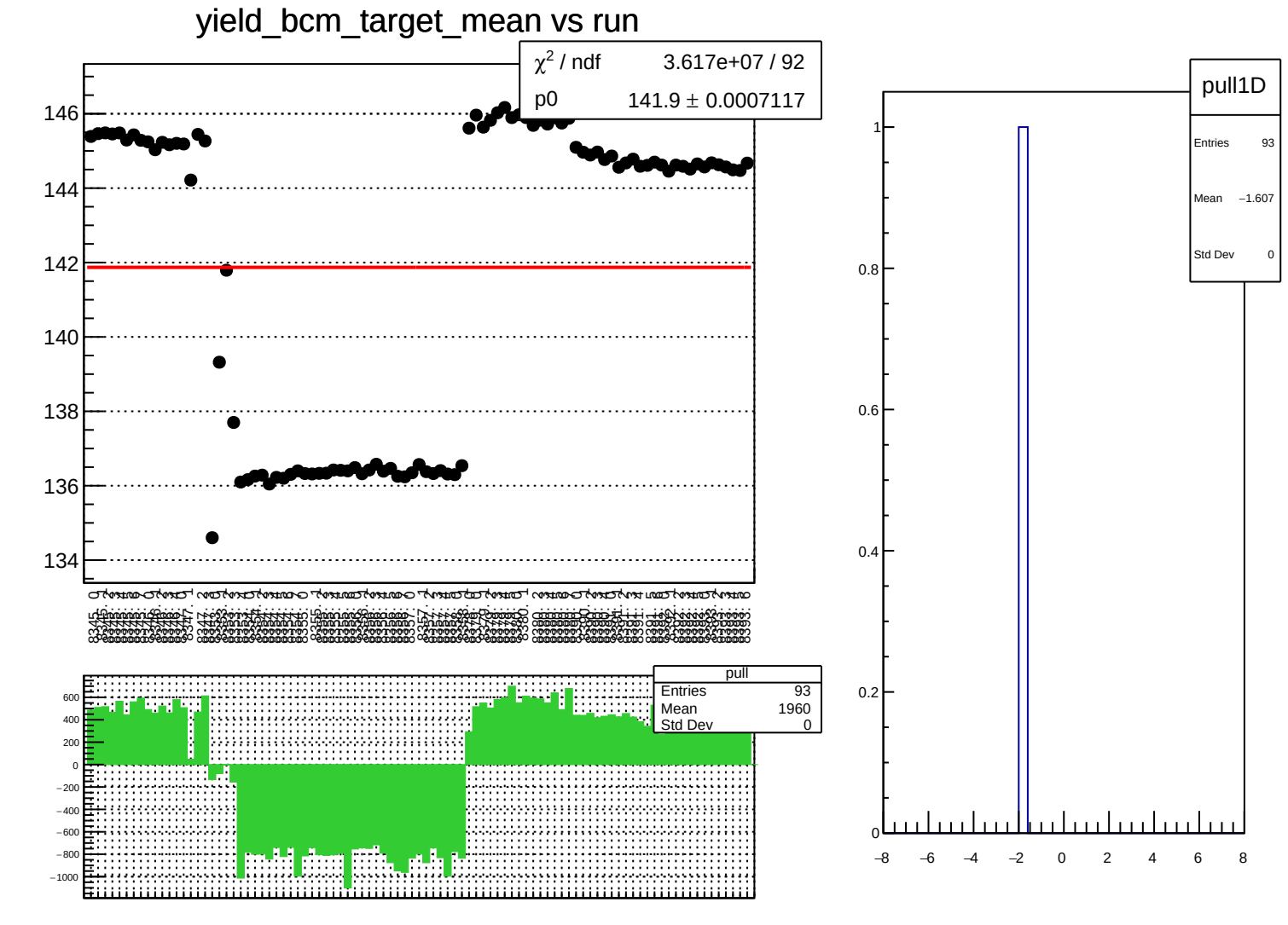

pull1D
Entries 93
Mean 0.003062
Std Dev 0.555
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

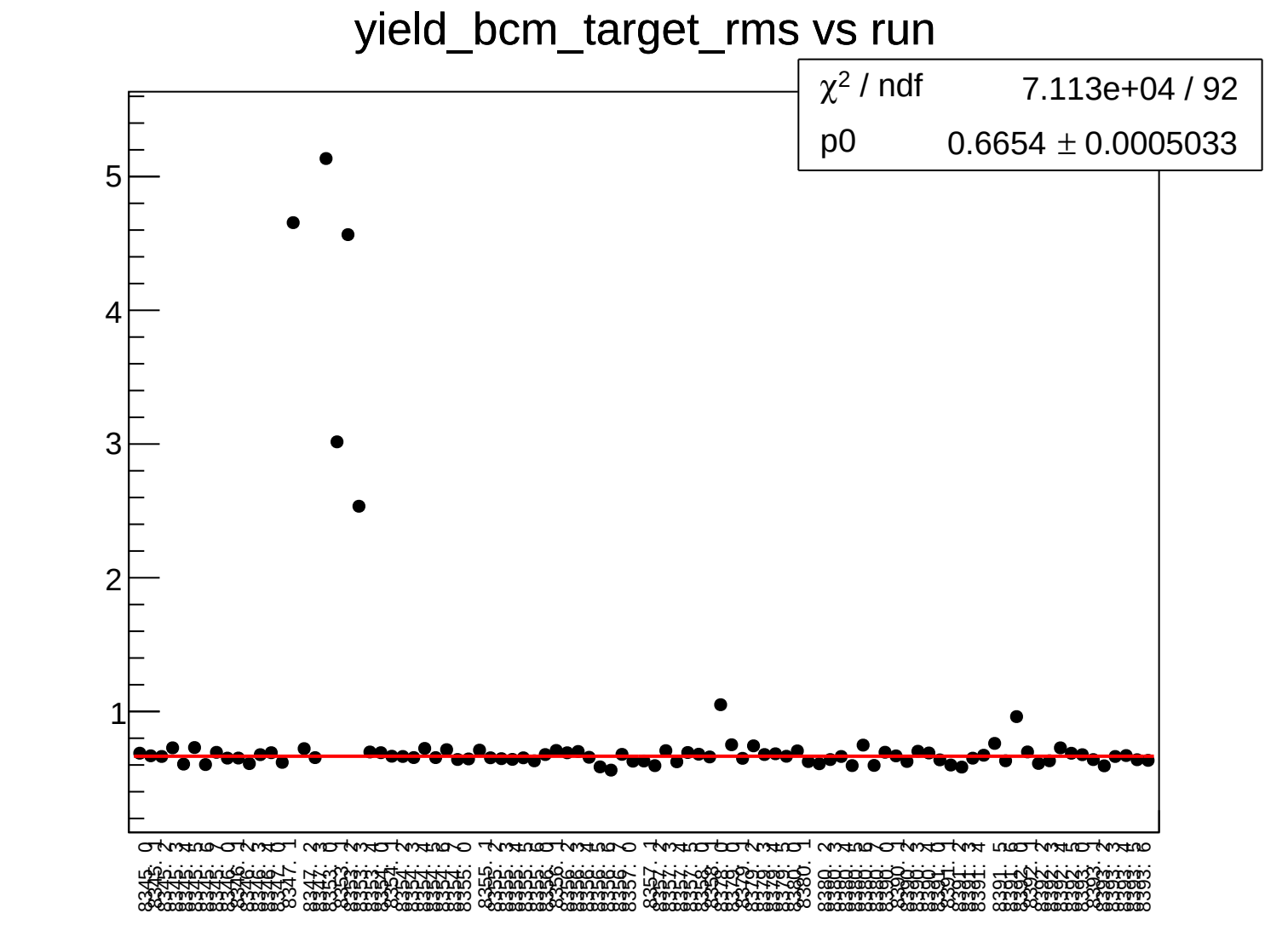

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1.29e+05 / 92
p0 202.4 ± 0.1557
700
600
500
400
300
200

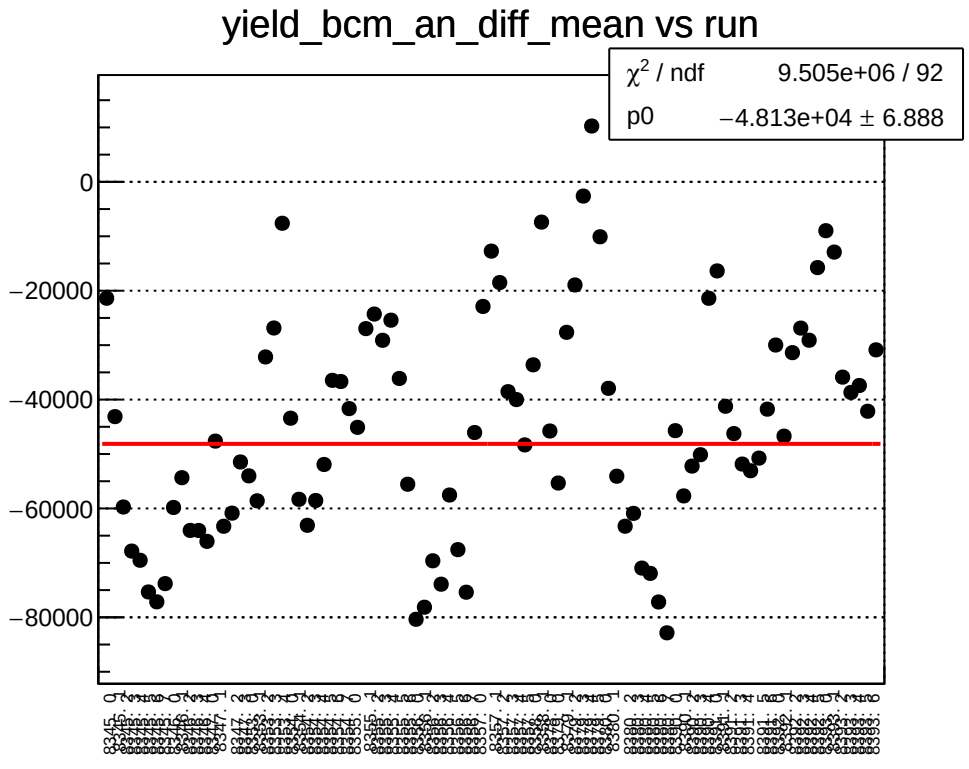

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 107.1 / 92
p0 75.44 ± 29.7
1000
500
0
−500
−1000
pull
Entries 93
Mean 184.9
Std Dev 0
3
2
1
0
−1
−2
−3

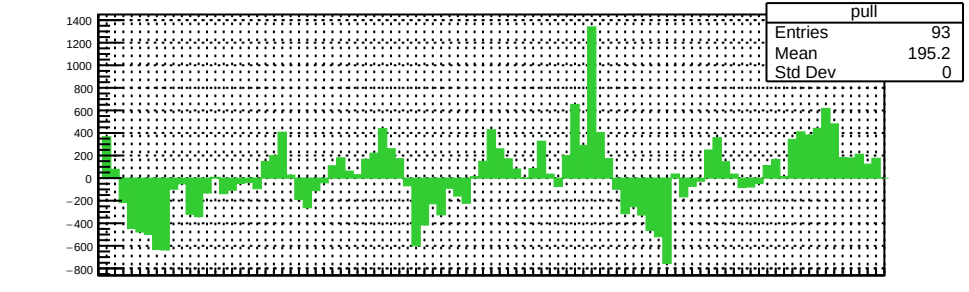

pull1D
Entries 93
Mean −0.01188
Std Dev 1.073
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

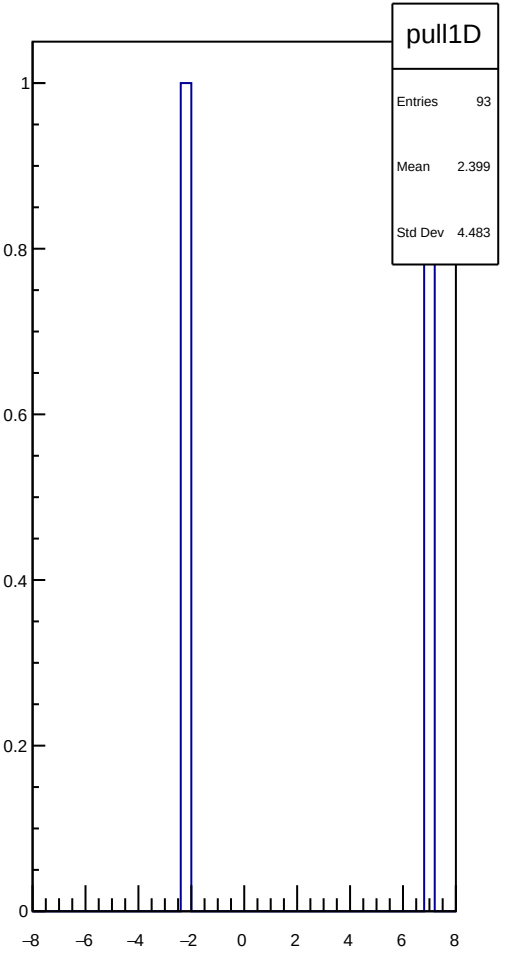

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2619 / 92
p0 28.3 ± 0.021
31
30
29
28
27
26
25

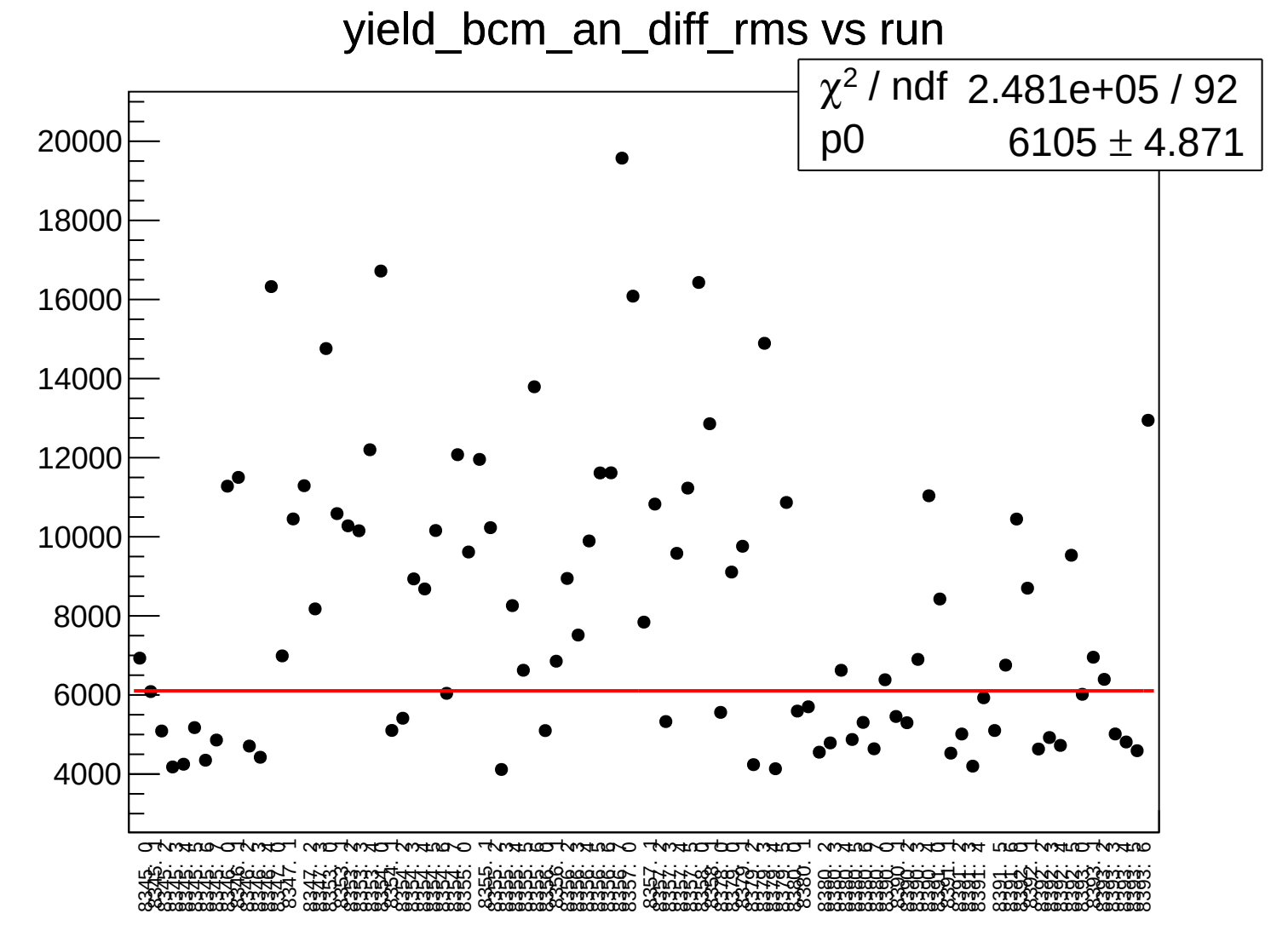

yield_bcm_target_mean vs run
χ² / ndf 3.617e+07 / 92
p0 141.9 ± 0.0007117
146
144
142
140
138
136
134
pull
Entries 93
Mean 1960
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000
pull1D
Entries 93
Mean −1.607
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

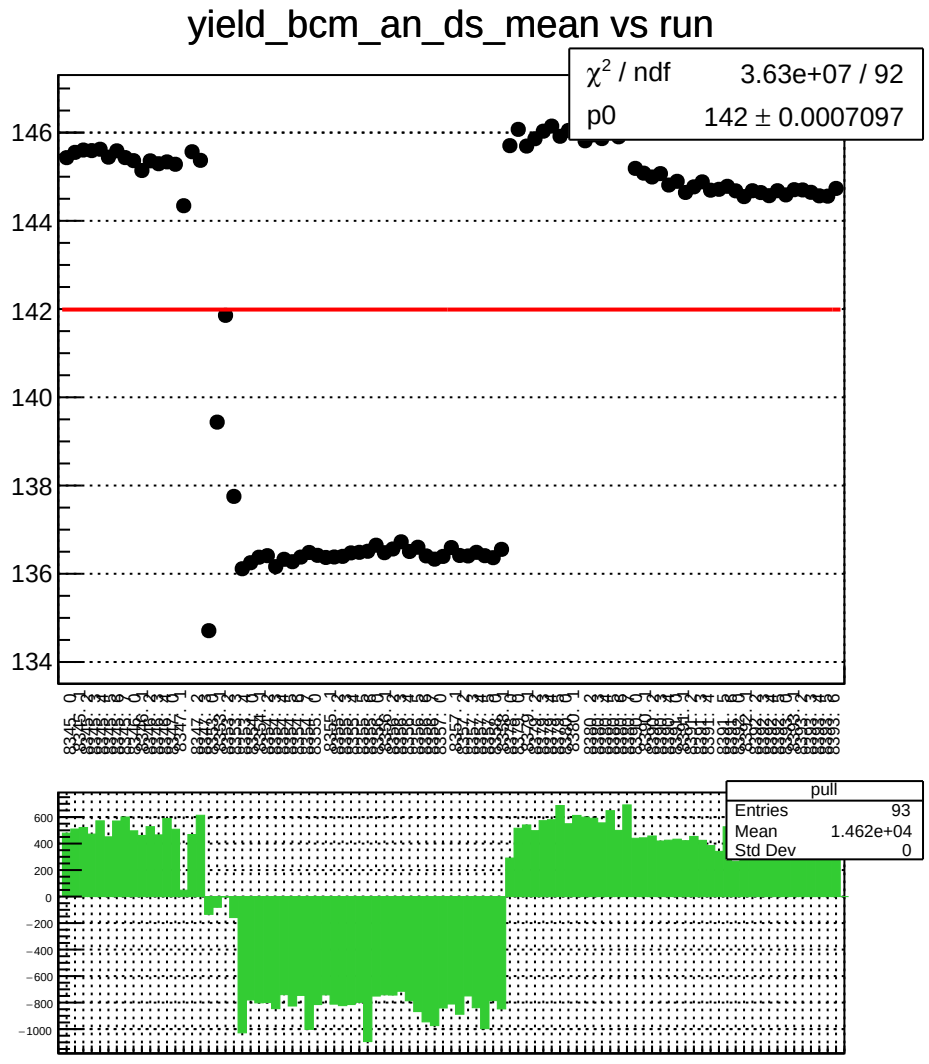

yield_bcm_target_rms vs run
χ² / ndf 7.113e+04 / 92
p0 0.6654 ± 0.0005033
5
4
3
2
1

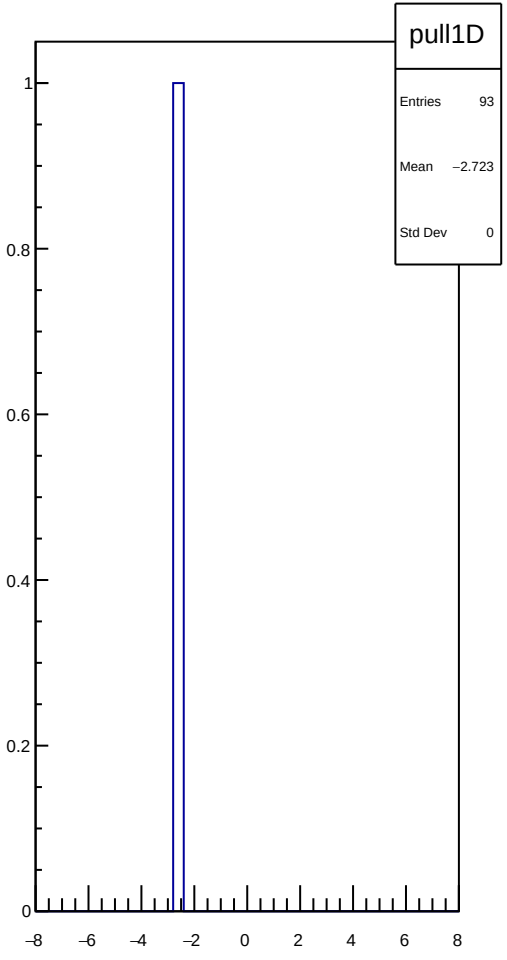

yield_bcm_an_diff_mean vs run
χ² / ndf 9.505e+06 / 92
p0 −4.813e+04 ± 6.888
0
−20000
−40000
−60000
−80000

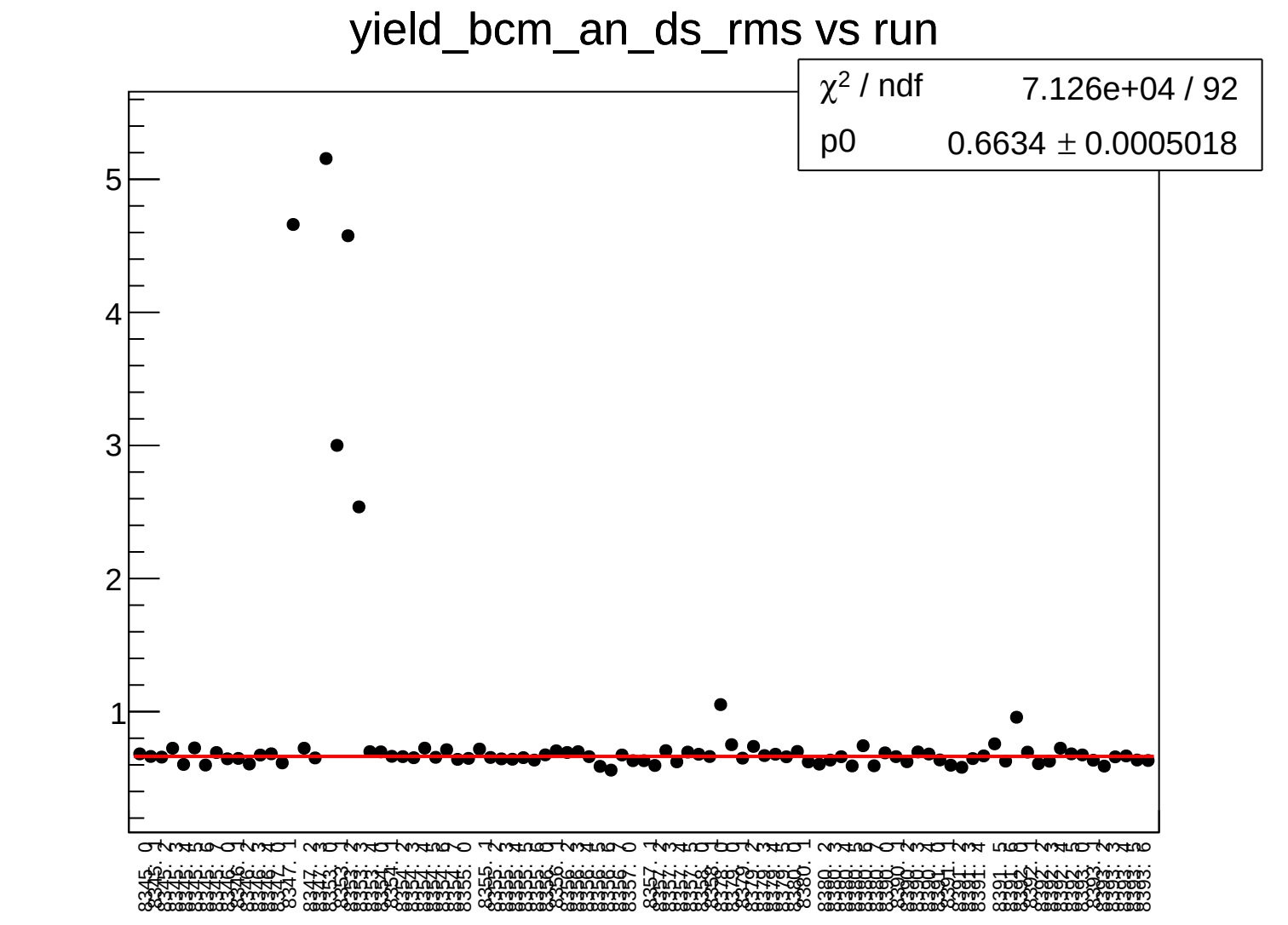

pull
Entries 93
Mean 195.2
Std Dev 0
1400
1200
1000
800
600
400
200
0
−200
−400
−600
−800

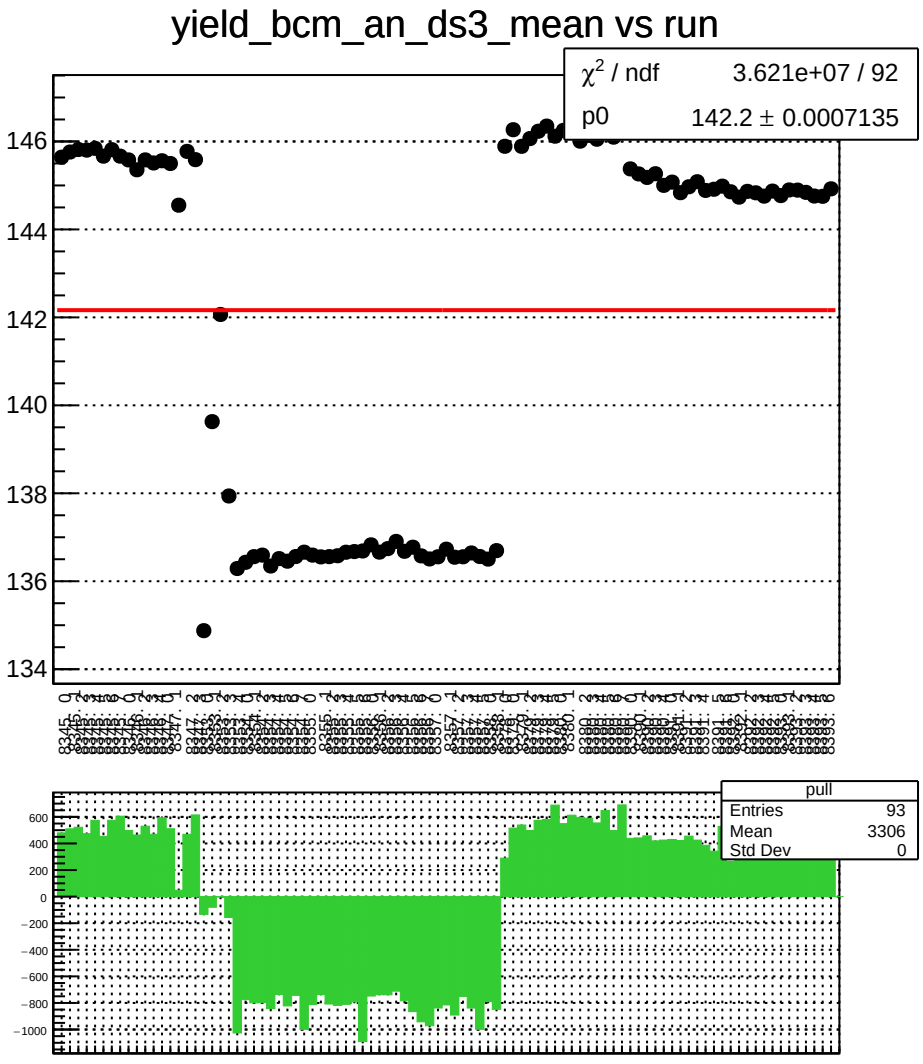

pull1D
Entries 93
Mean 2.399
Std Dev 4.483
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

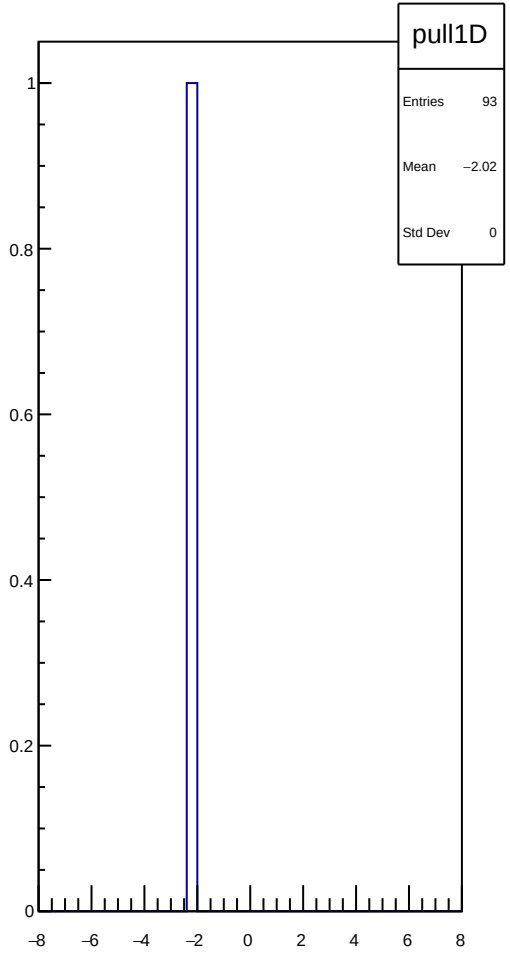

yield_bcm_an_diff_rms vs run
χ^2 / ndf 2.481e+05 / 92
p0 6105 ± 4.871
20000
18000
16000
14000
12000
10000
8000
6000
4000

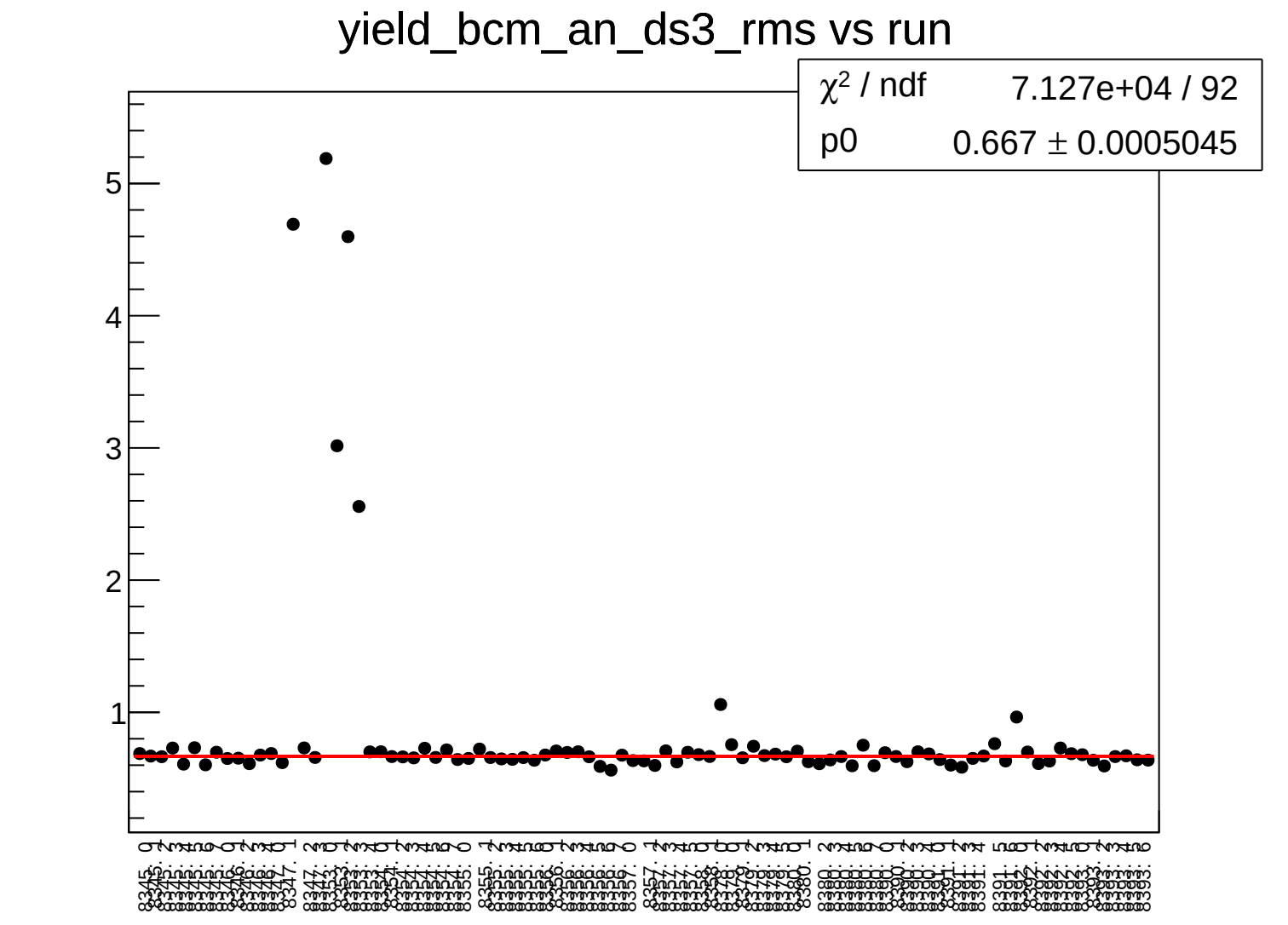

yield_bcm_an_ds_mean vs run
χ² / ndf 3.63e+07 / 92
p0 142 ± 0.0007097
146
144
142
140
138
136
134
pull
Entries 93
Mean 1.462e+04
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000

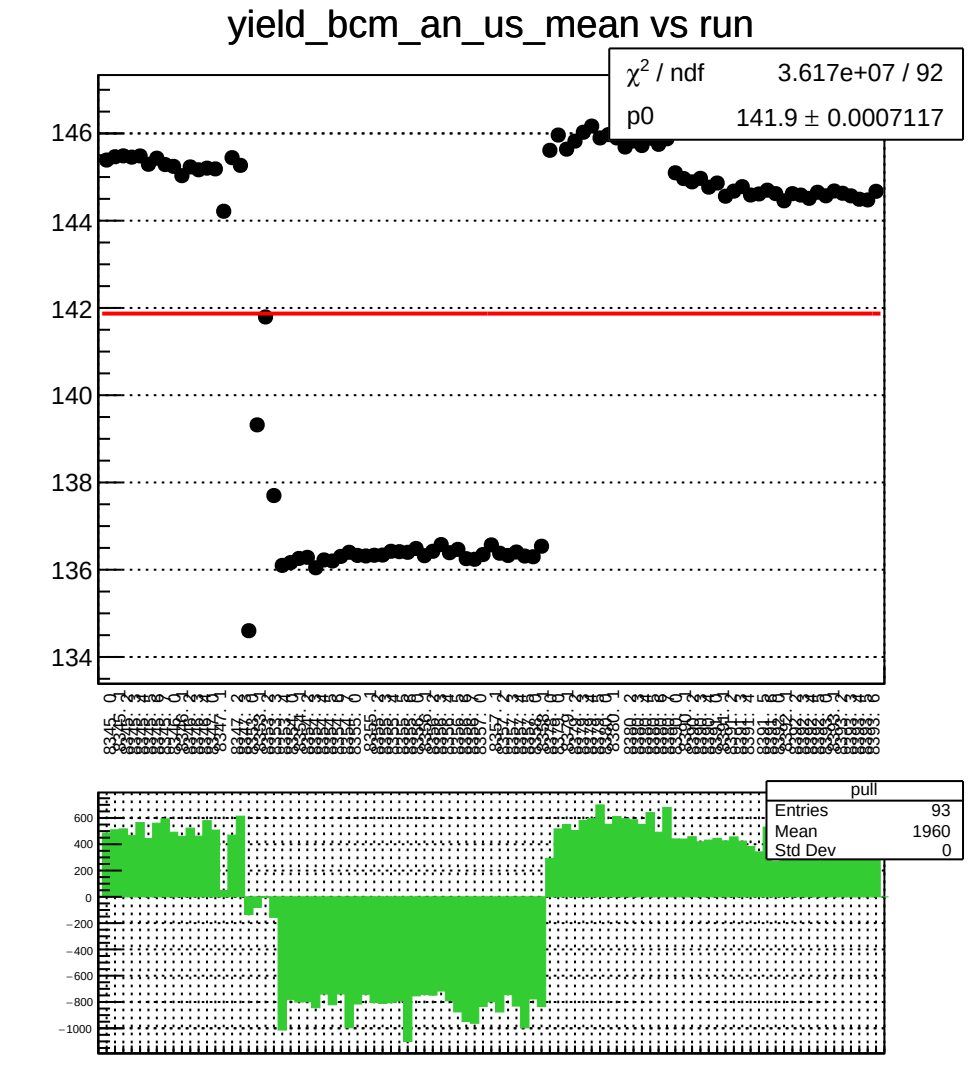

pull1D
Entries 93
Mean −2.723
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

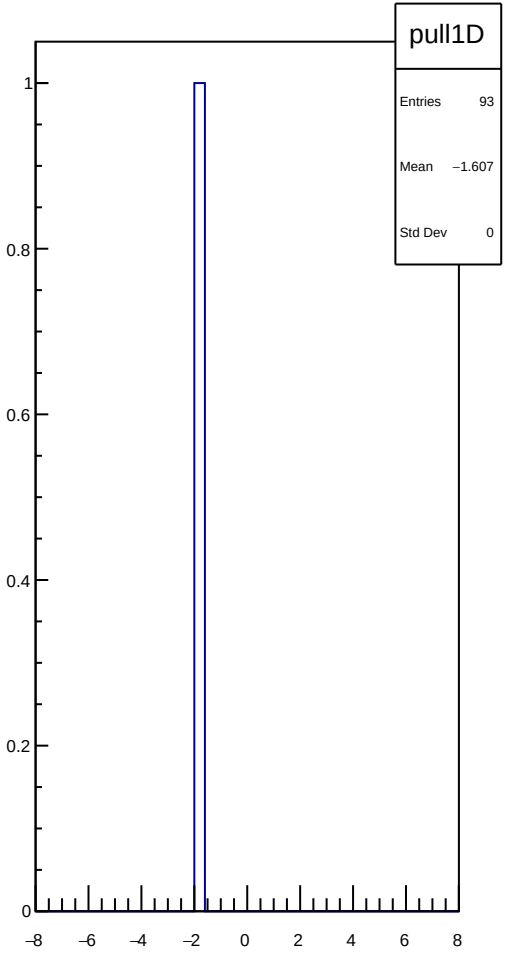

yield_bcm_an_ds_rms vs run
χ^2 / ndf 7.126e+04 / 92
p0 0.6634 ± 0.0005018
5
4
3
2
1

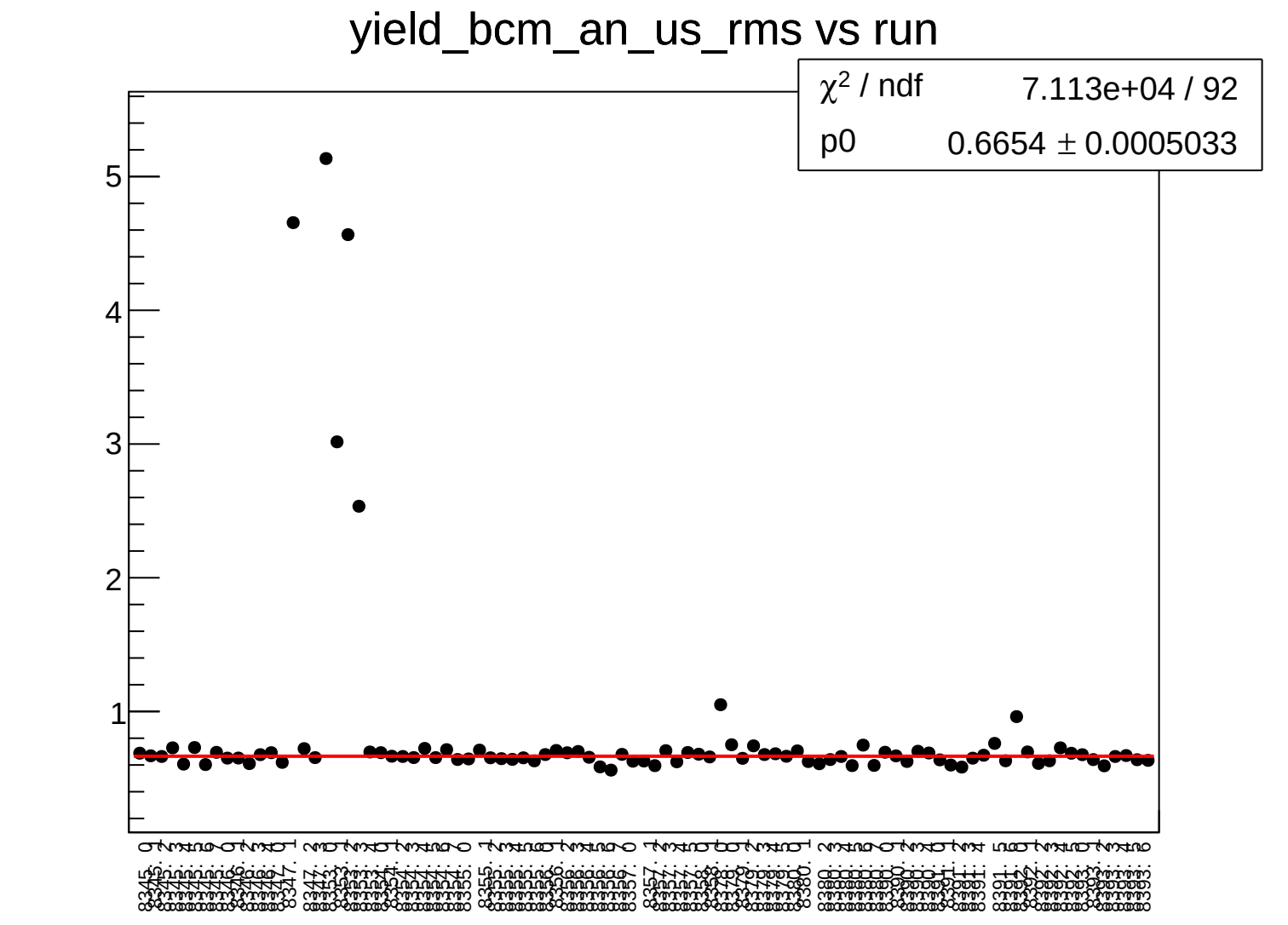

yield_bcm_an_ds3_mean vs run
χ² / ndf 3.621e+07 / 92
p0 142.2 ± 0.0007135
146
144
142
140
138
136
134
pull
Entries 93
Mean 3306
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000

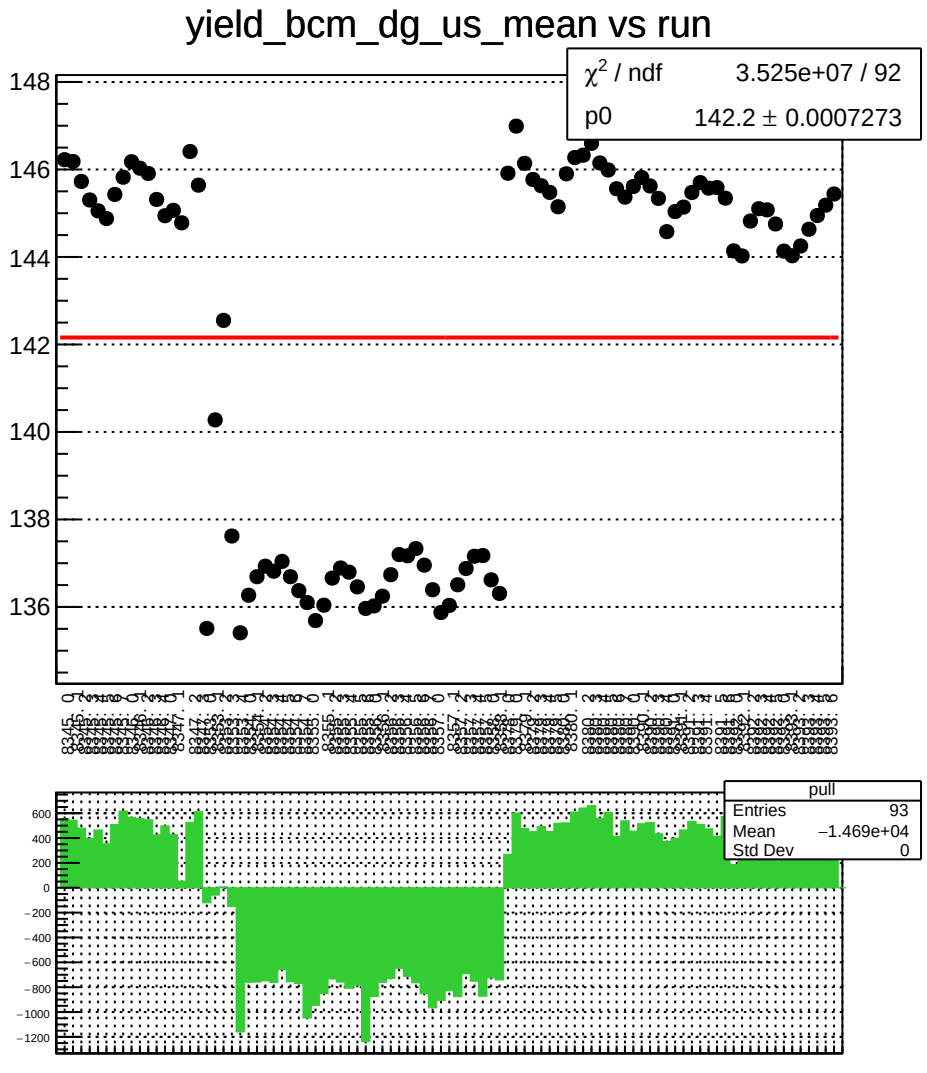

pull1D
Entries 93
Mean −2.02
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

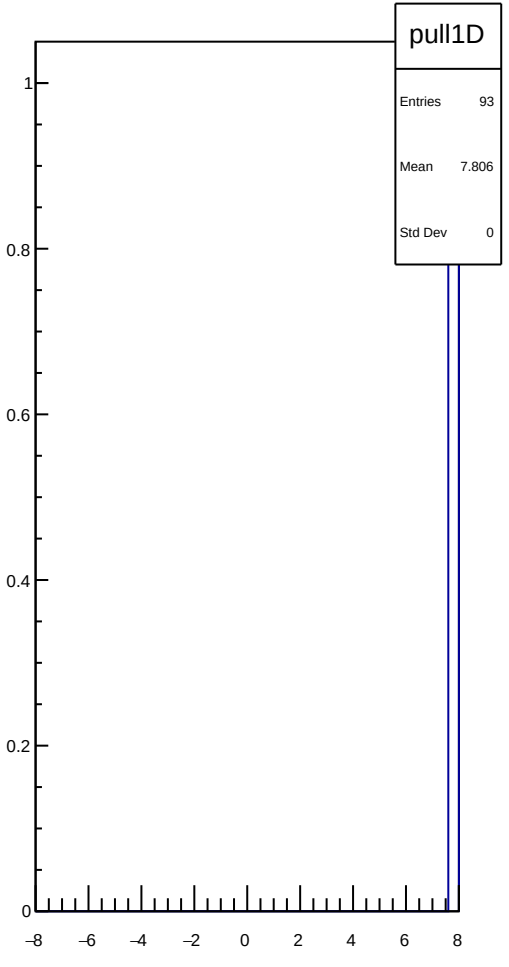

yield_bcm_an_ds3_rms vs run
χ^2 / ndf 7.127e+04 / 92
p0 0.667 ± 0.0005045
5
4
3
2
1

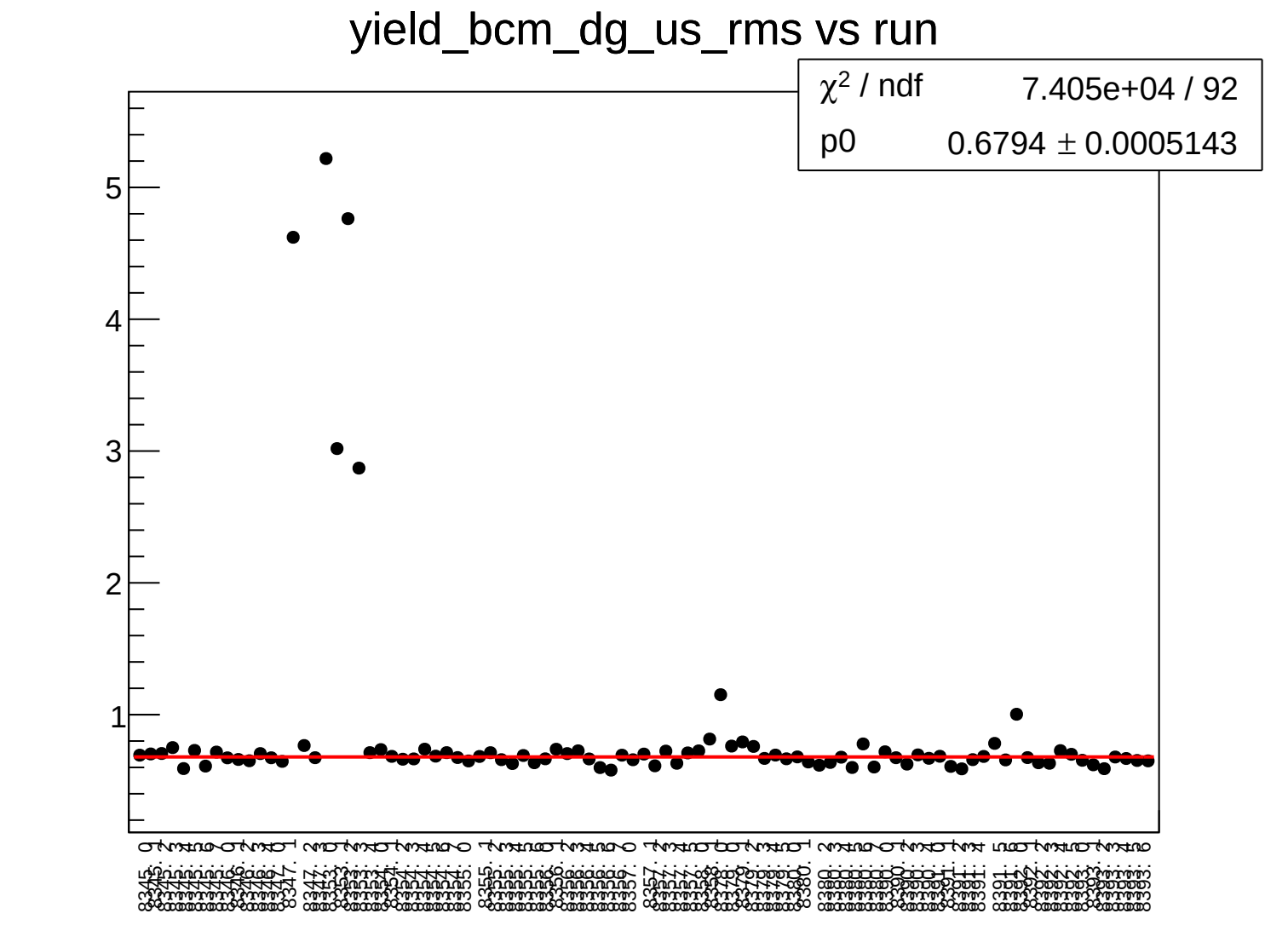

yield_bcm_an_us_mean vs run
χ² / ndf 3.617e+07 / 92
p0 141.9 ± 0.0007117
146
144
142
140
138
136
134
pull
Entries 93
Mean 1960
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000

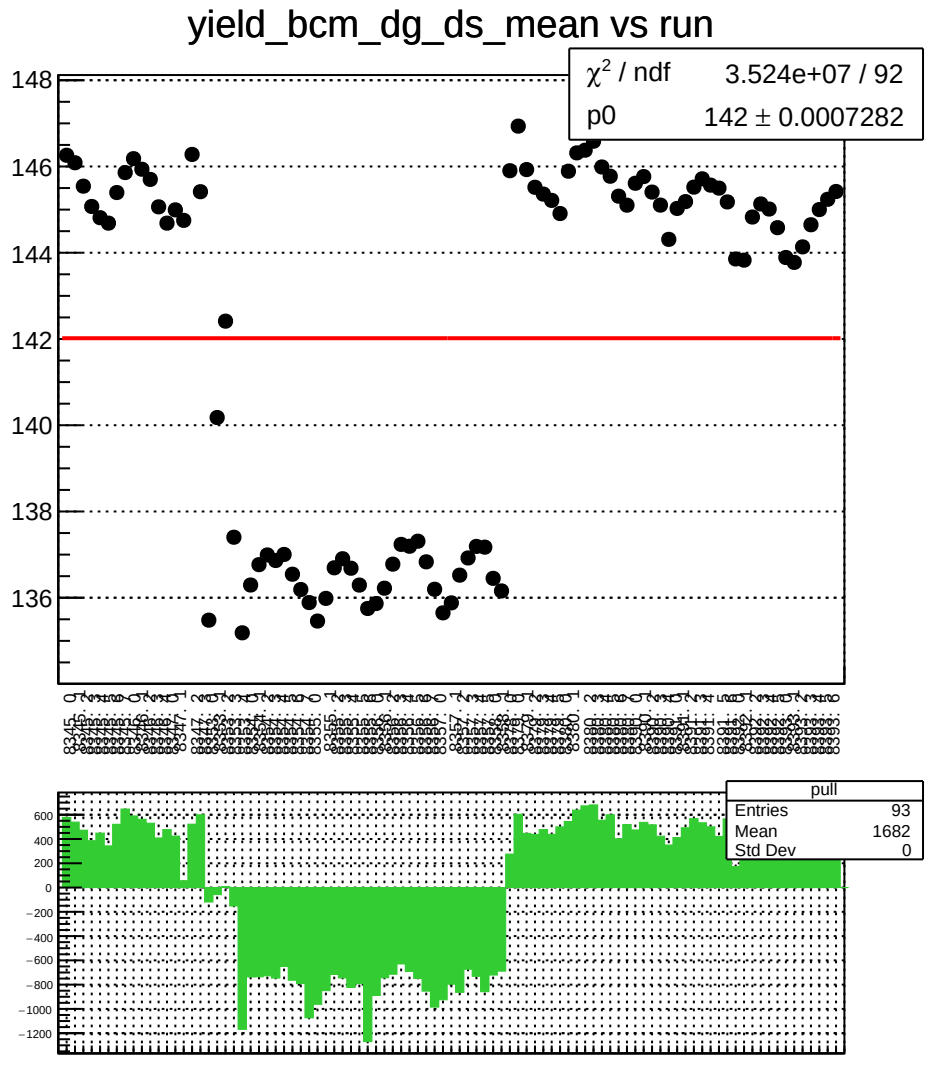

pull1D
Entries 93
Mean −1.607
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

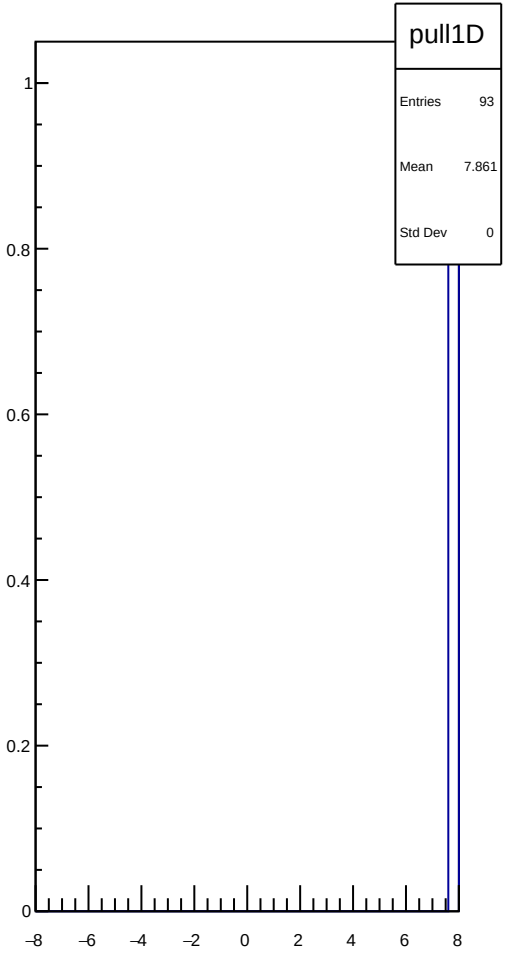

yield_bcm_an_us_rms vs run
χ² / ndf 7.113e+04 / 92
p0 0.6654 ± 0.0005033
5
4
3
2
1

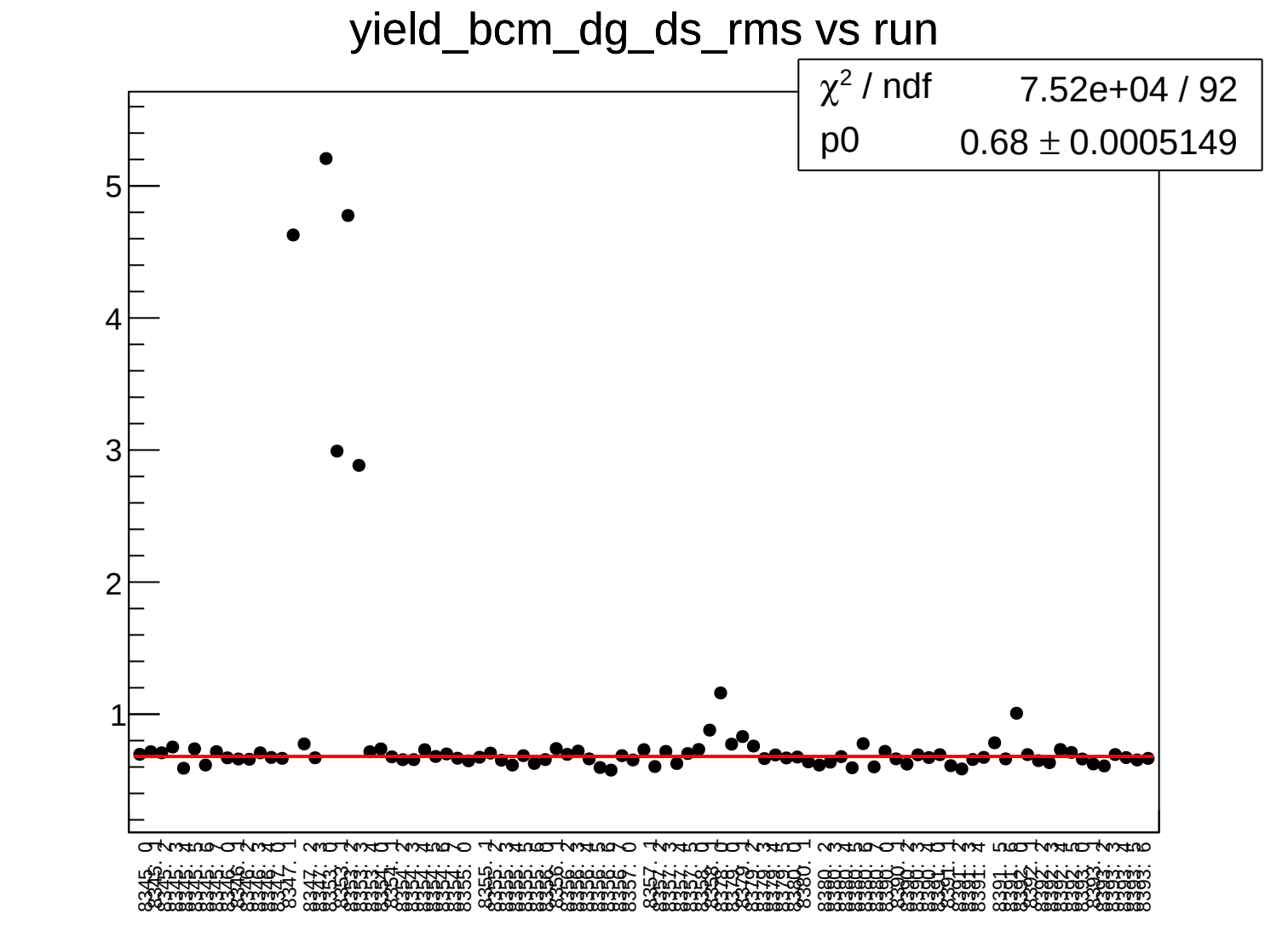

yield_bcm_dg_us_mean vs run
χ² / ndf 3.525e+07 / 92
p0 142.2 ± 0.0007273
148
146
144
142
140
138
136
pull
Entries 93
Mean −1.469e+04
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000
−1200

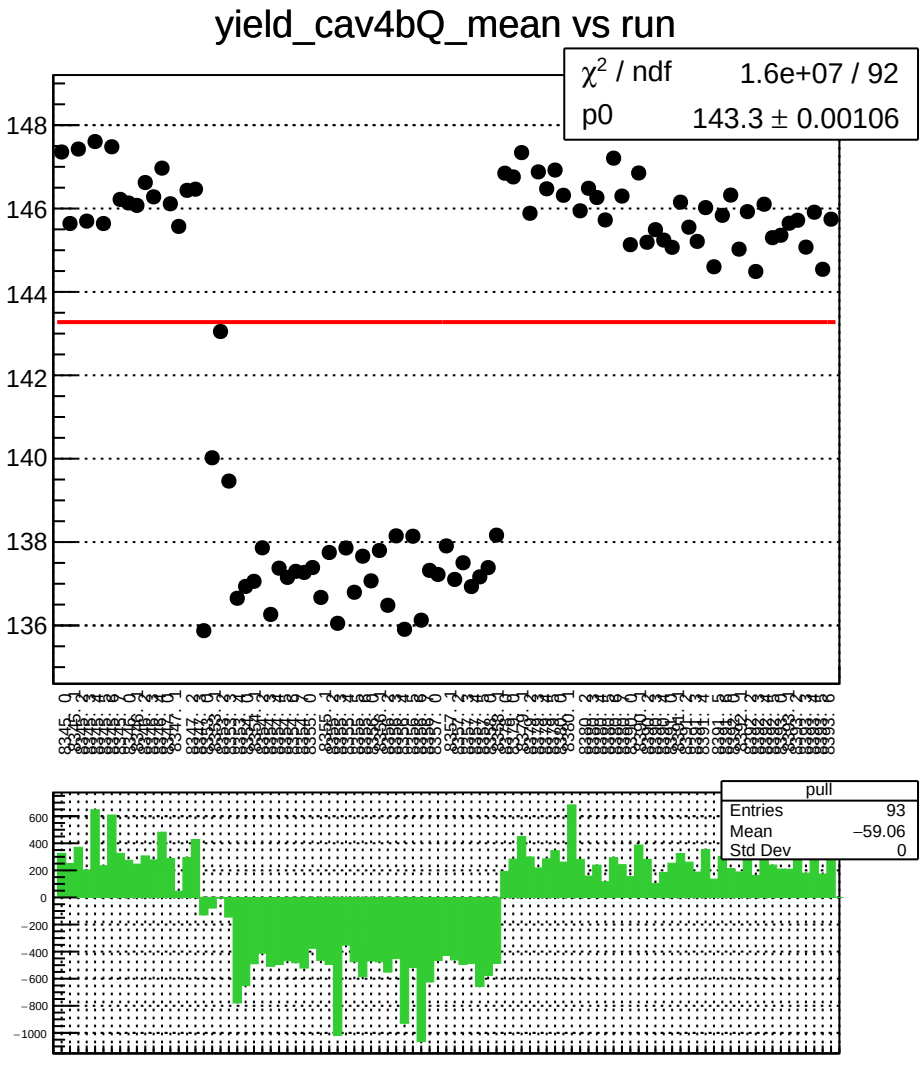

pull1D
Entries 93
Mean 7.806
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

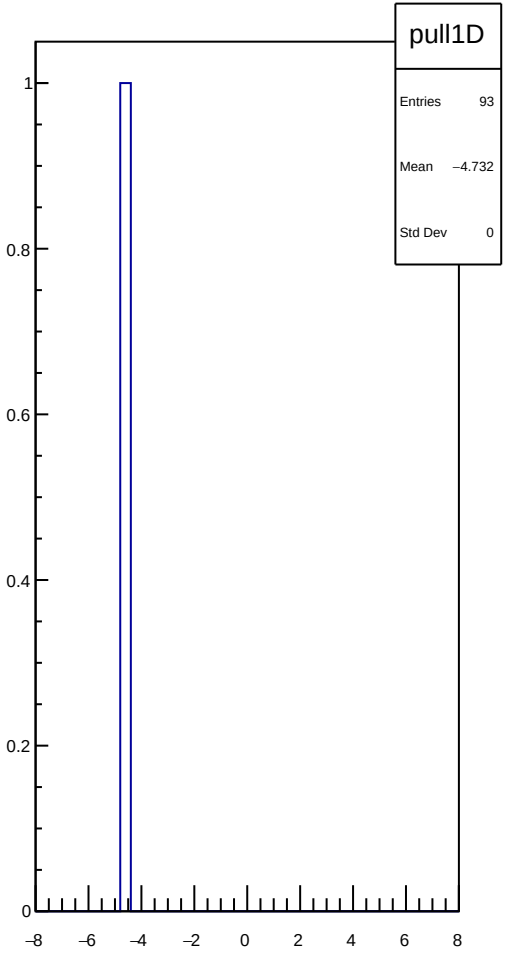

yield_bcm_dg_us_rms vs run
χ² / ndf 7.405e+04 / 92
p0 0.6794 ± 0.0005143
5
4
3
2
1

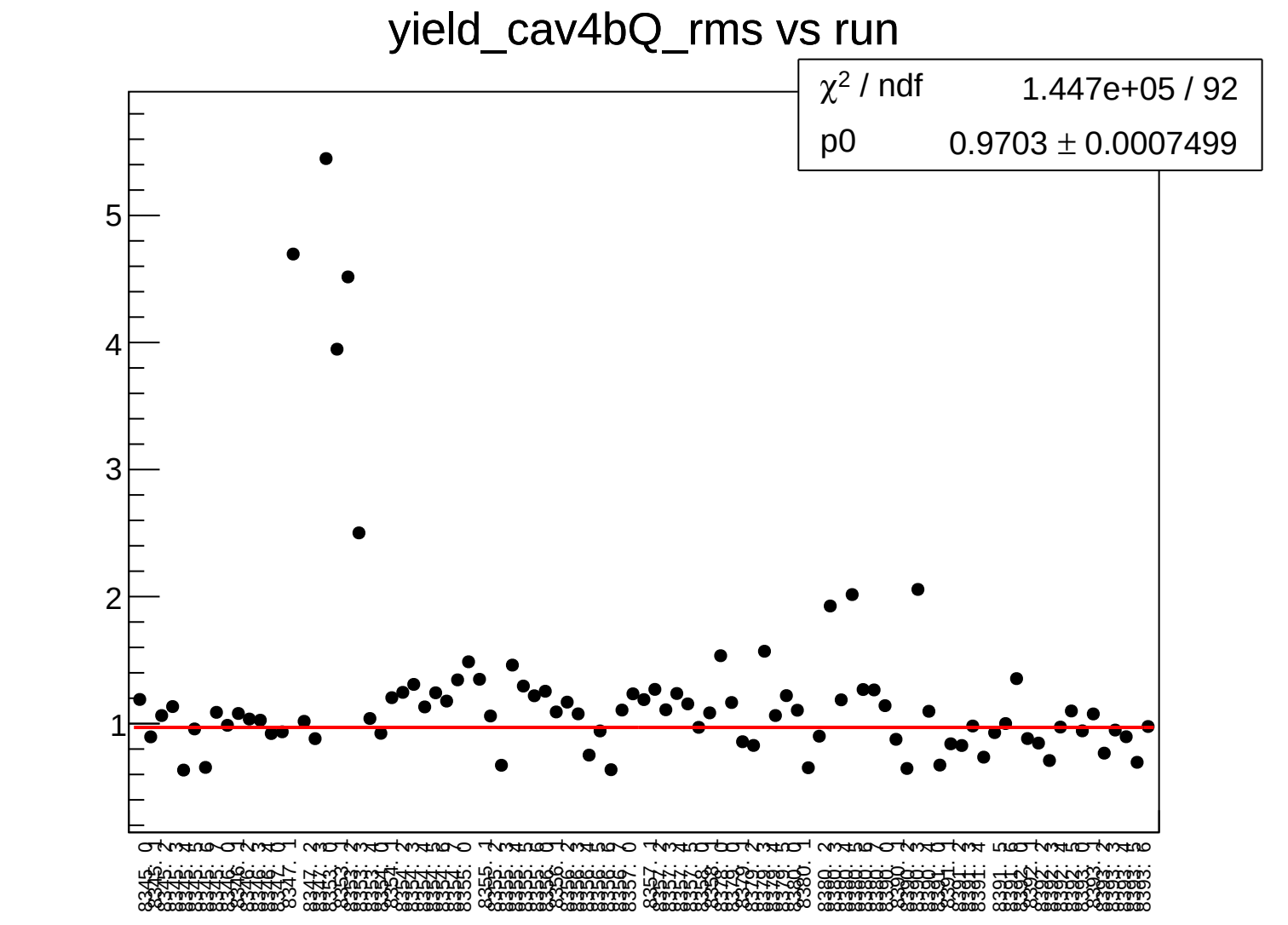

yield_bcm_dg_ds_mean vs run
χ² / ndf 3.524e+07 / 92
p0 142 ± 0.0007282
148
146
144
142
140
138
136
pull
Entries 93
Mean 1682
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000
−1200

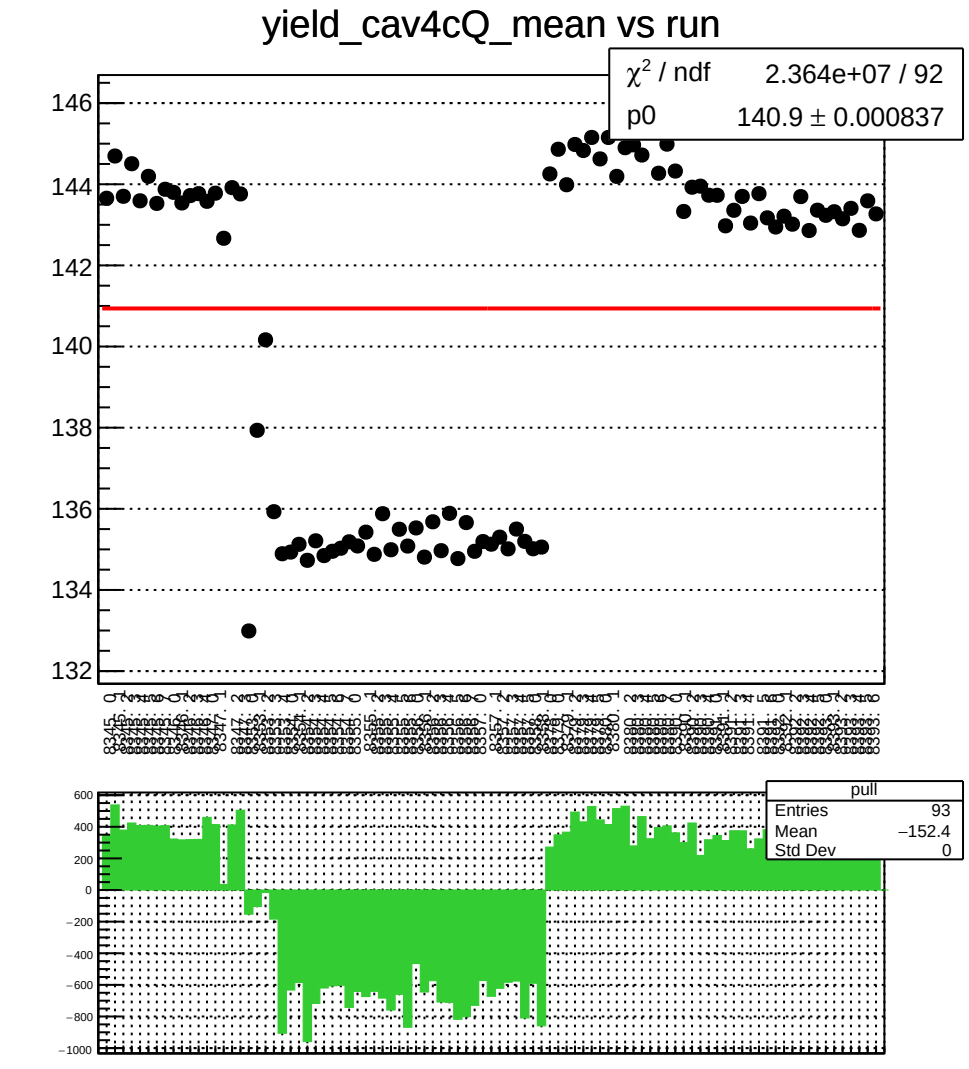

pull1D
Entries 93
Mean 7.861
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

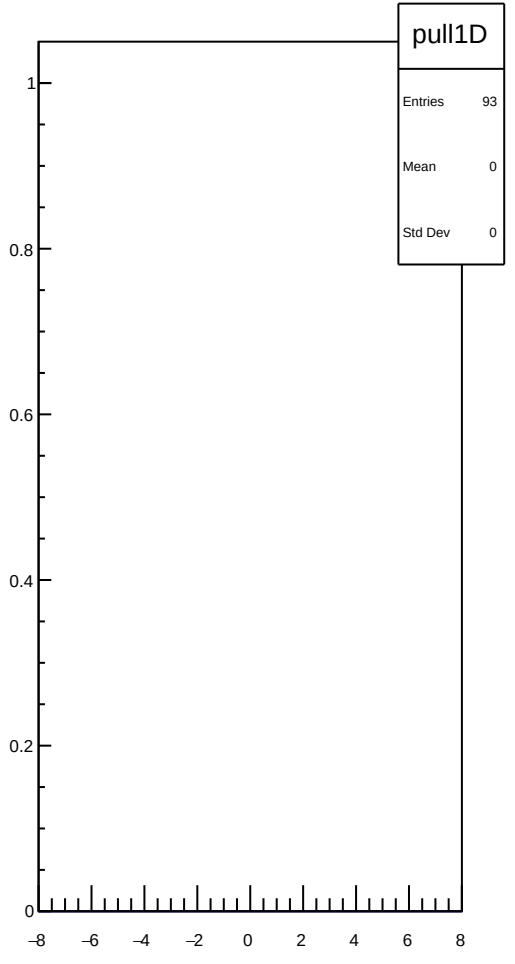

yield_bcm_dg_ds_rms vs run
χ^2 / ndf 7.52e+04 / 92
p0 0.68 ± 0.0005149
5
4
3
2
1

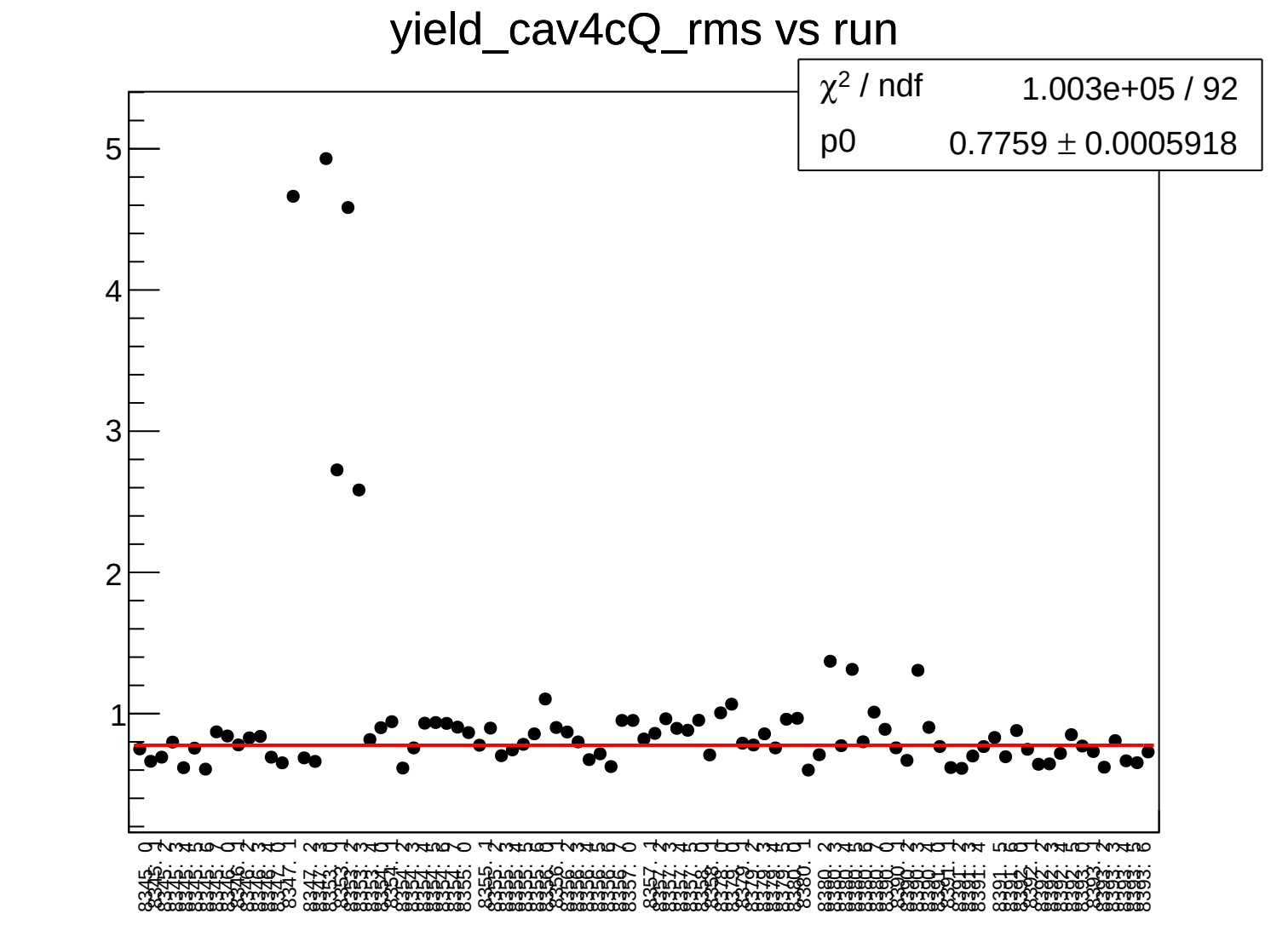

yield_cav4bQ_mean vs run
χ² / ndf 1.6e+07 / 92
p0 143.3 ± 0.00106
148
146
144
142
140
138
136
pull
Entries 93
Mean −59.06
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000

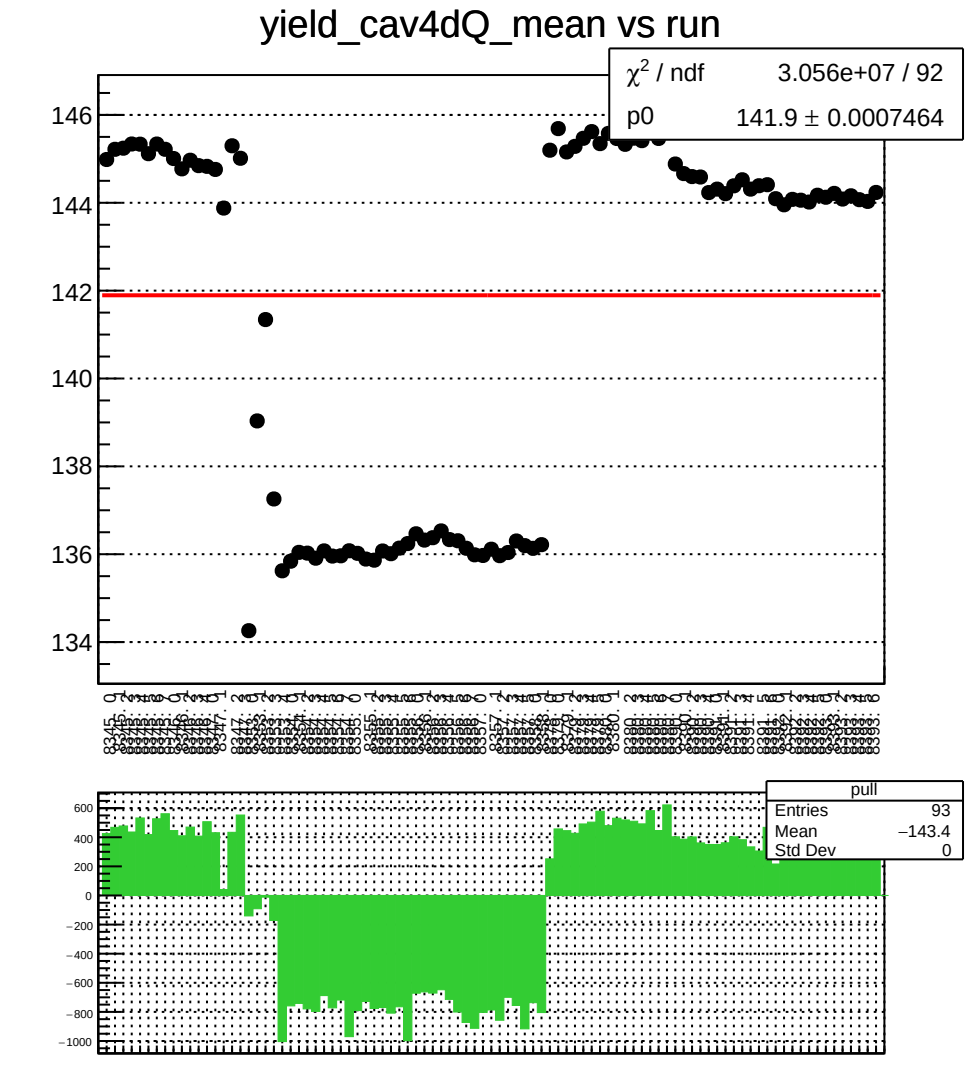

pull1D
Entries 93
Mean −4.732
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

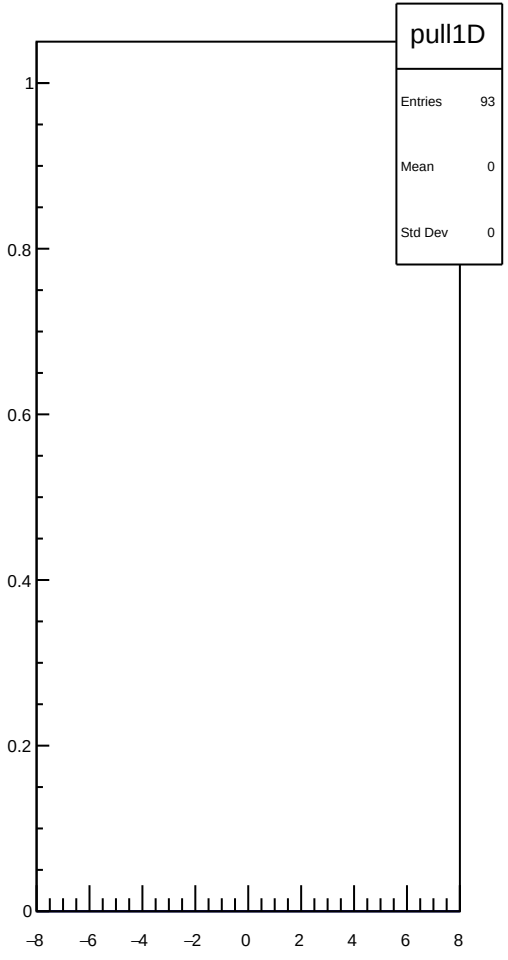

yield_cav4bQ_rms vs run
χ² / ndf 1.447e+05 / 92
p0 0.9703 ± 0.0007499
5
4
3
2
1

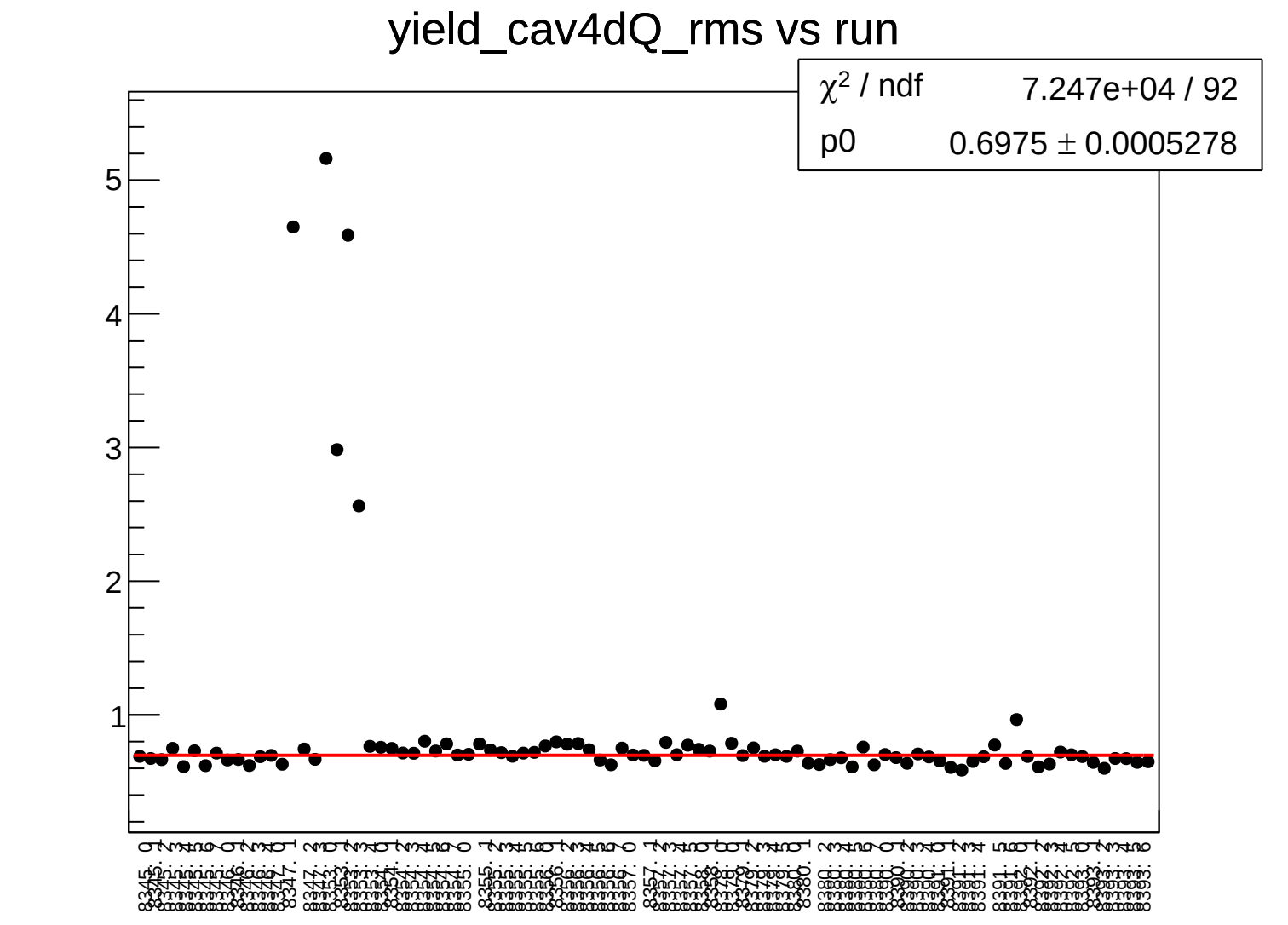

yield_cav4cQ_mean vs run
χ² / ndf 2.364e+07 / 92
p0 140.9 ± 0.000837
146
144
142
140
138
136
134
132
pull
Entries 93
Mean −152.4
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000

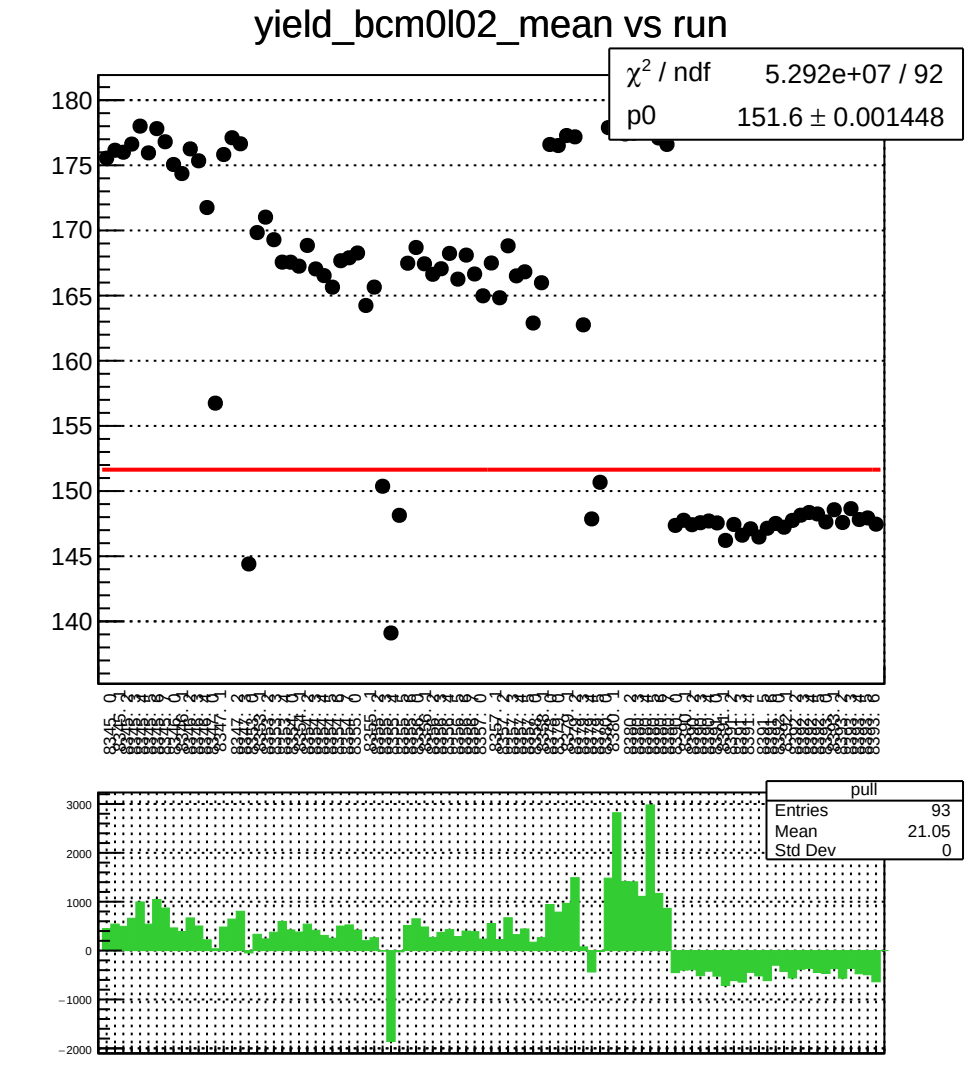

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

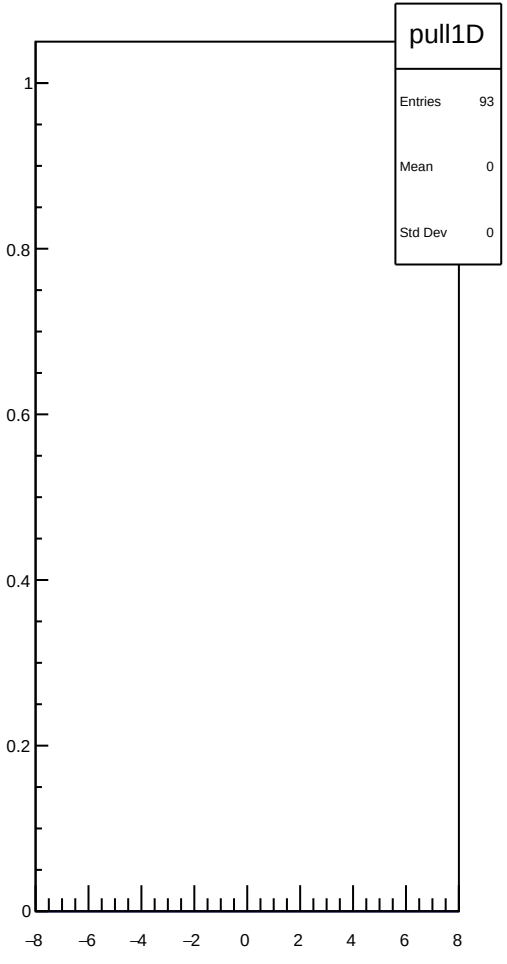

yield_cav4cQ_rms vs run
χ² / ndf 1.003e+05 / 92
p0 0.7759 ± 0.0005918
5
4
3
2
1

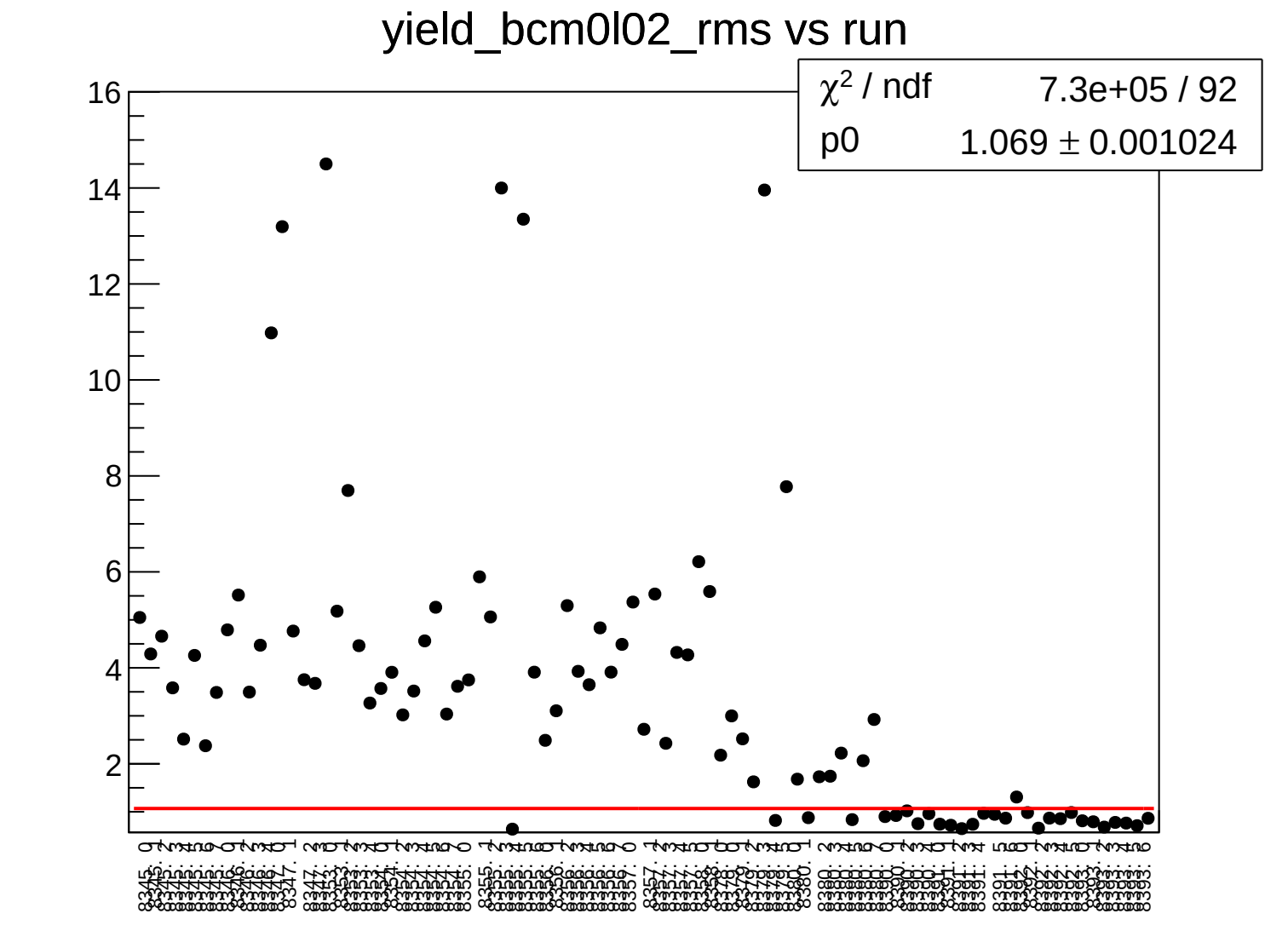

yield_cav4dQ_mean vs run
χ² / ndf 3.056e+07 / 92
p0 141.9 ± 0.0007464
146
144
142
140
138
136
134
pull
Entries 93
Mean −143.4
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000

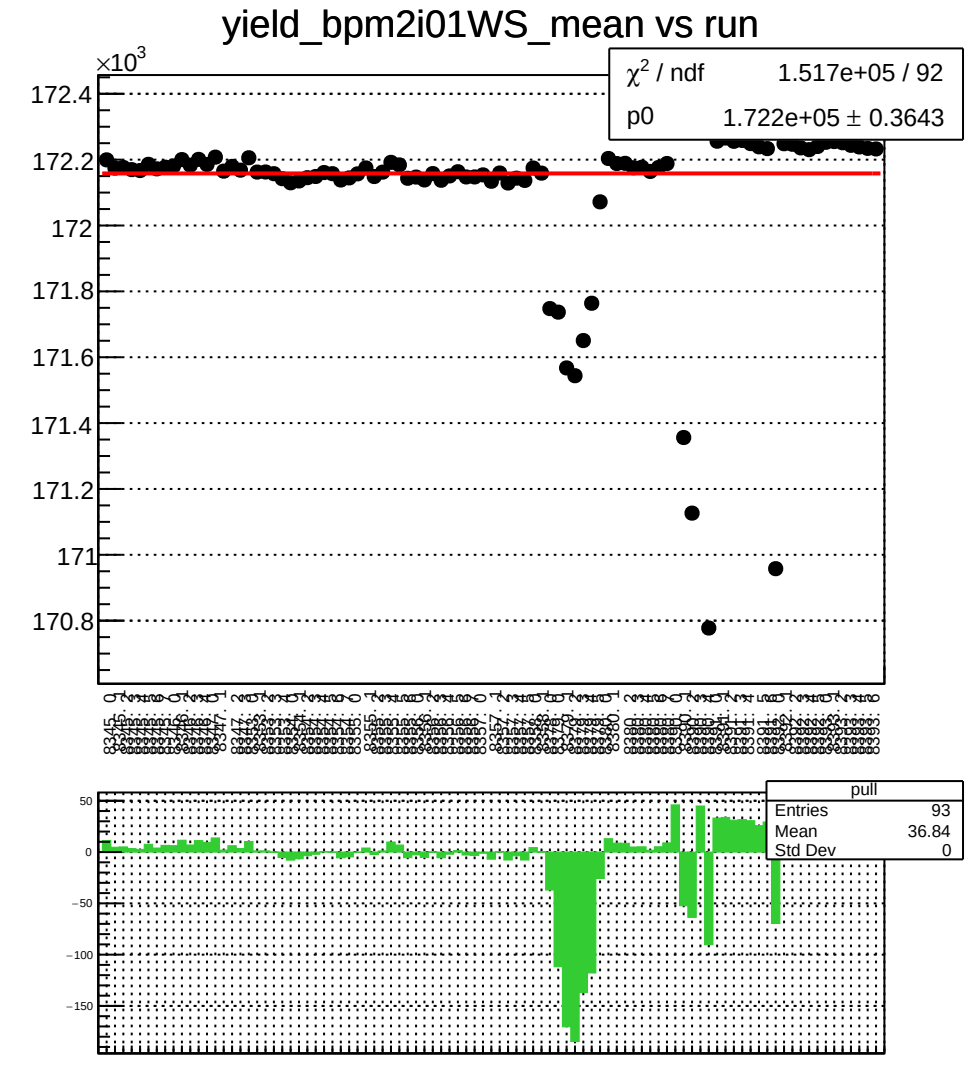

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

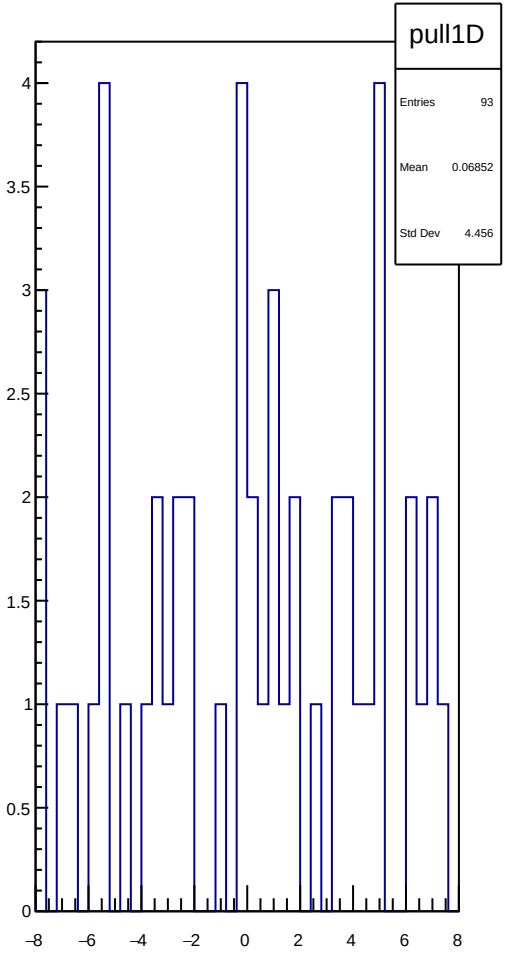

yield_cav4dQ_rms vs run
χ² / ndf 7.247e+04 / 92
p0 0.6975 ± 0.0005278
5
4
3
2
1

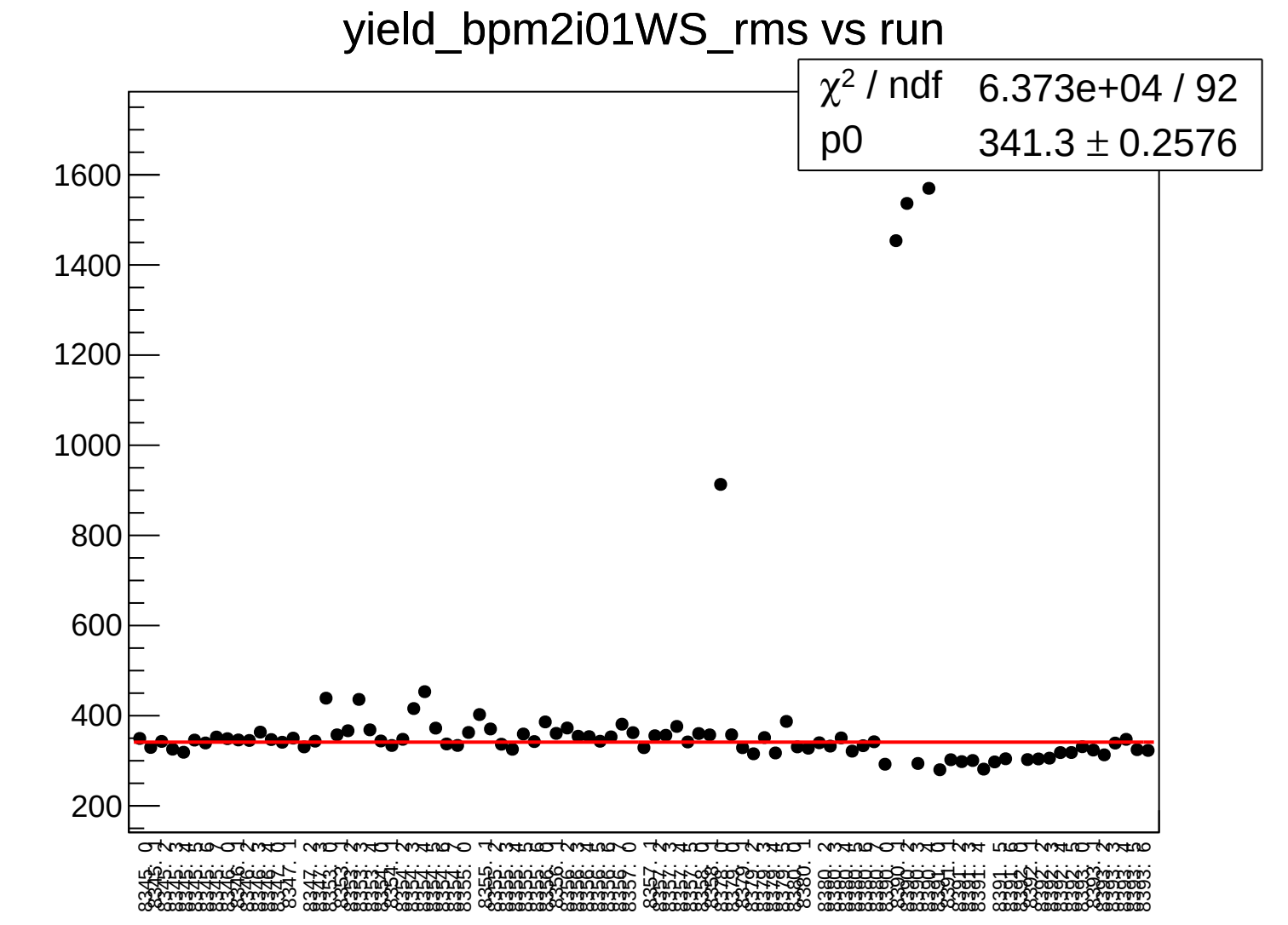

yield_bcm0l02_mean vs run
χ² / ndf 5.292e+07 / 92
p0 151.6 ± 0.001448
180
175
170
165
160
155
150
145
140
pull
Entries 93
Mean 21.05
Std Dev 0
3000
2000
1000
0
−1000
−2000

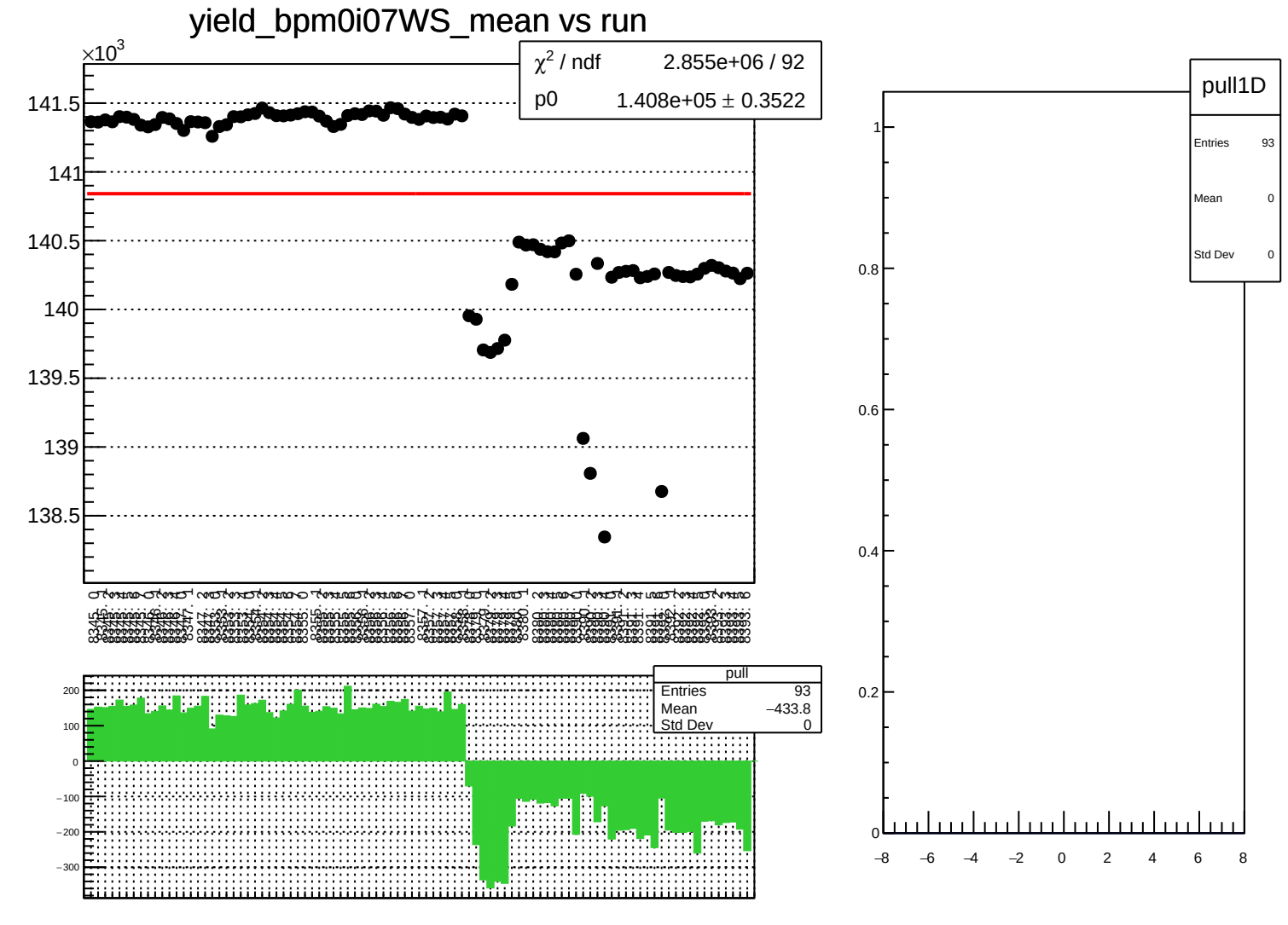

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

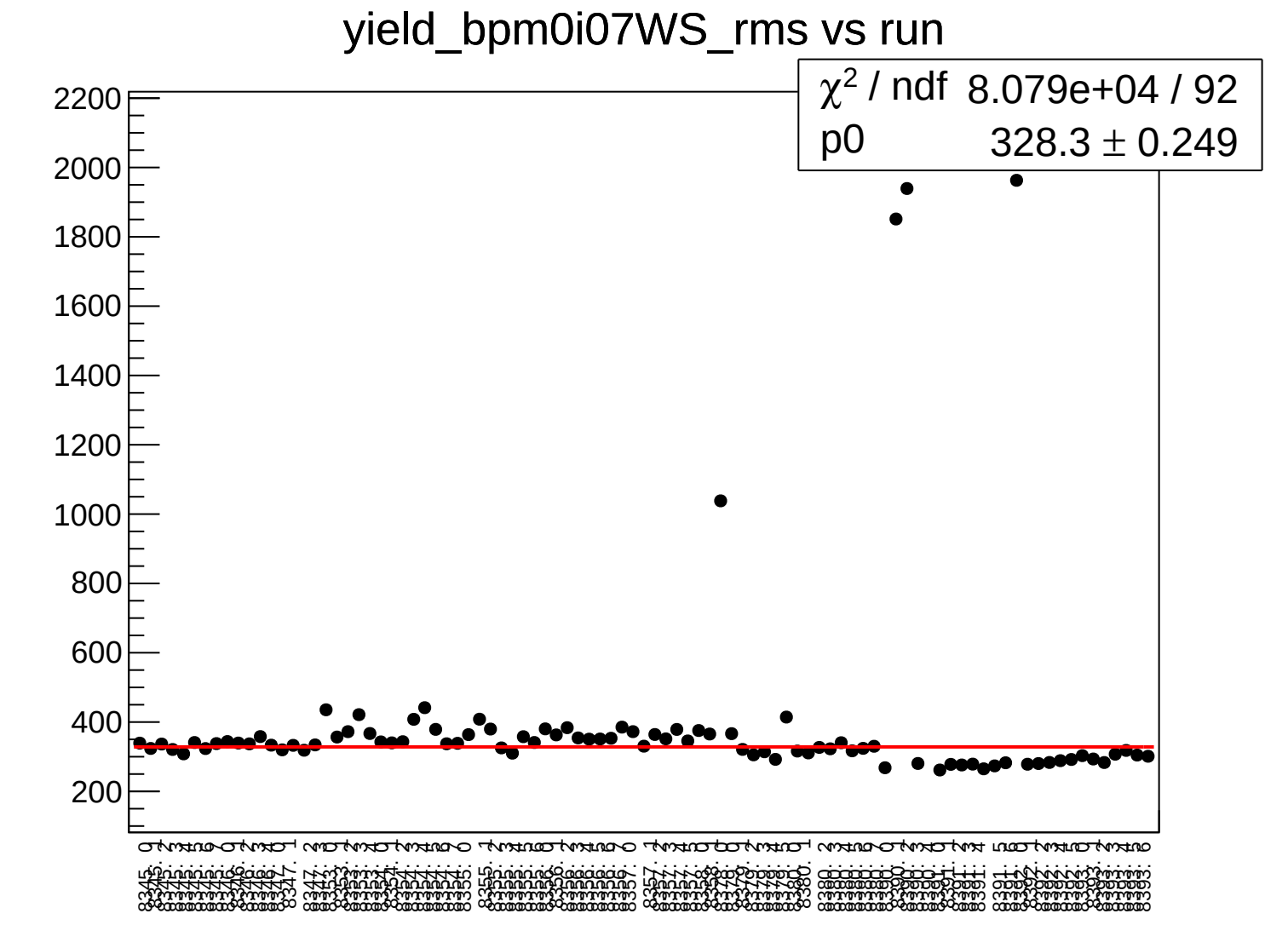

yield_bcm0l02_rms vs run
χ² / ndf 7.3e+05 / 92
p0 1.069 ± 0.001024
16
14
12
10
8
6
4
2

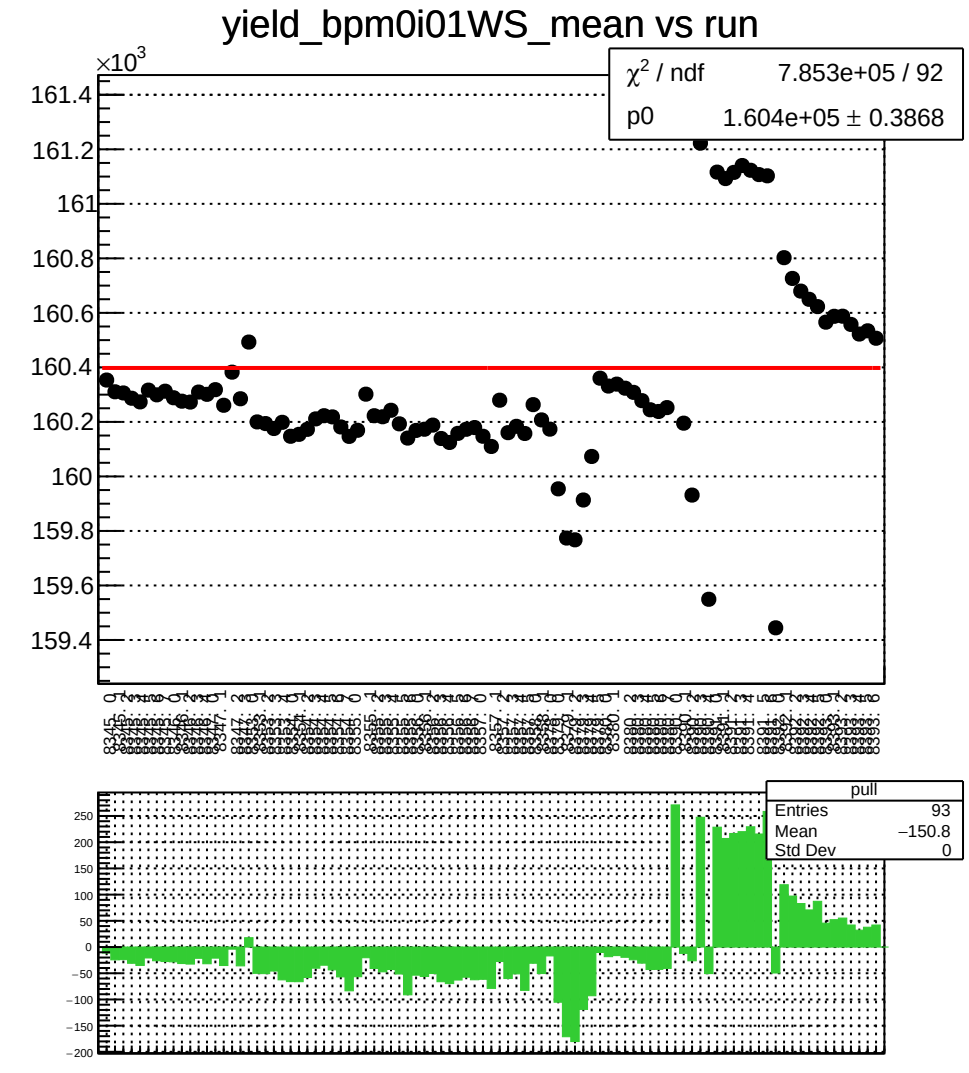

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 1.517e+05 / 92
p0 1.722e+05 ± 0.3643
172.4
172.2
172
171.8
171.6
171.4
171.2
171
170.8
pull
Entries 93
Mean 36.84
Std Dev 0
50
0
−50
−100
−150

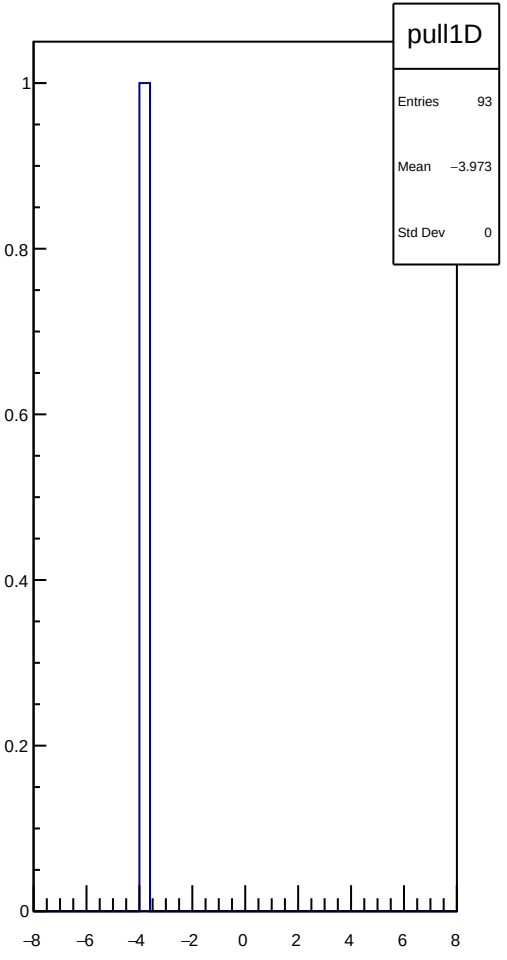

pull1D
Entries 93
Mean 0.06852
Std Dev 4.456
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

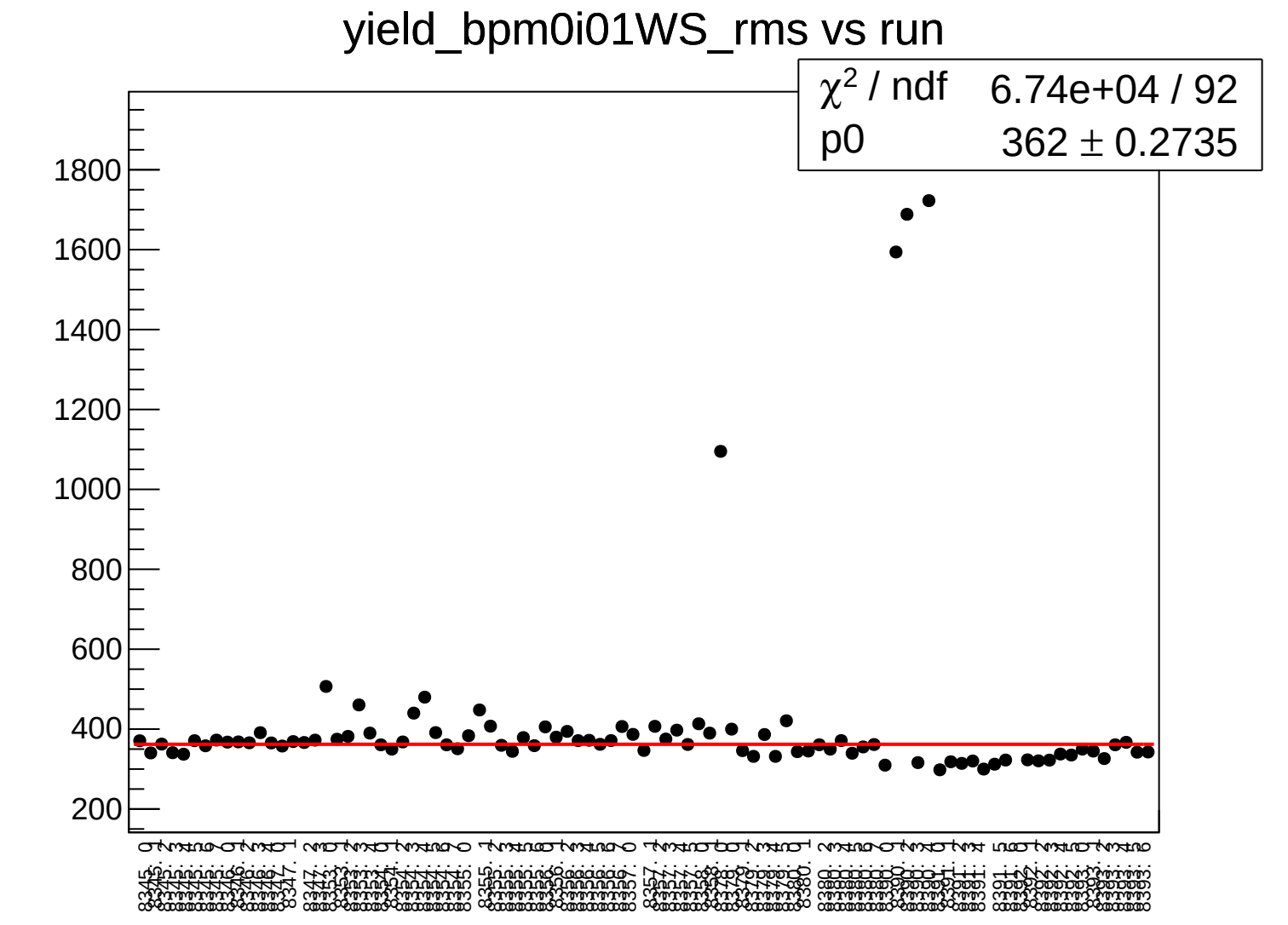

yield_bpm2i01WS_rms vs run
χ² / ndf 6.373e+04 / 92
p0 341.3 ± 0.2576
1600
1400
1200
1000
800
600
400
200

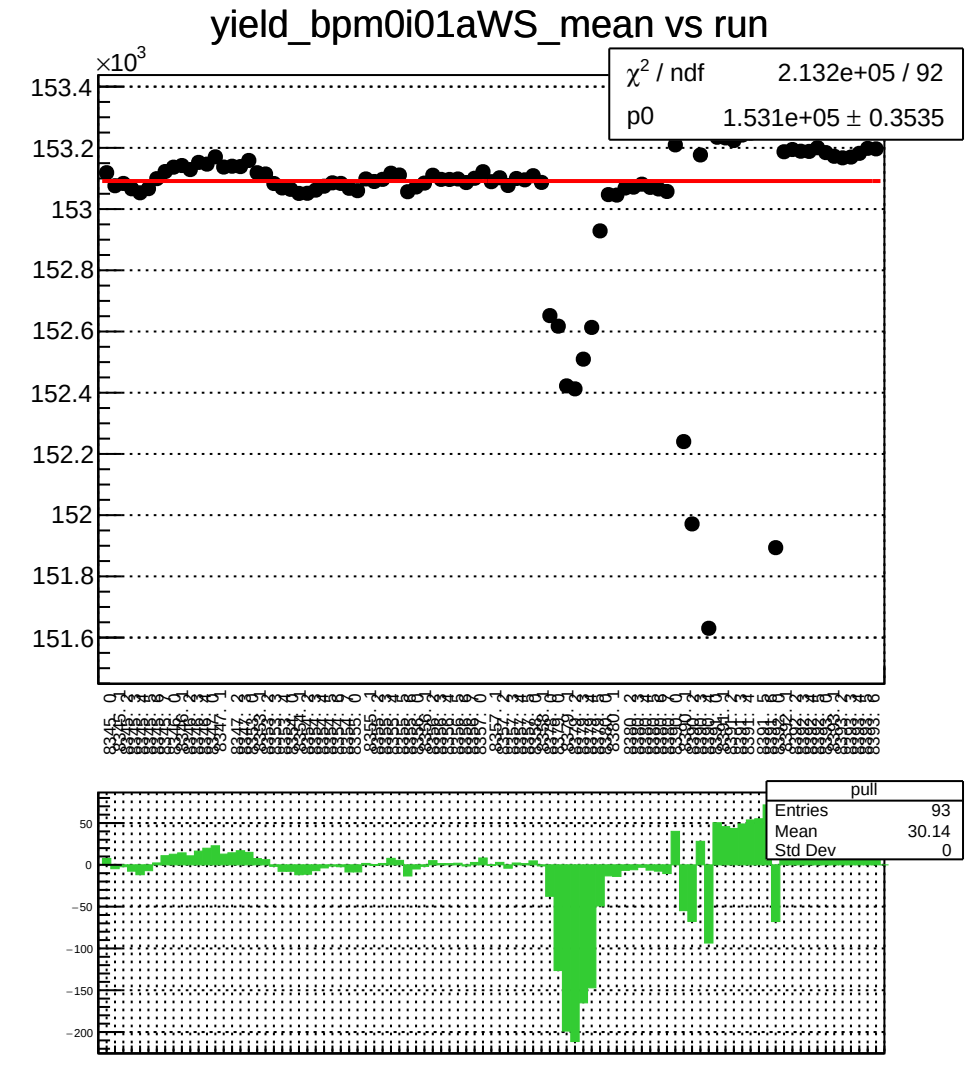

yield_bpm0i07WS_mean vs run
×10^3
χ^2 / ndf 2.855e+06 / 92
p0 1.408e+05 ± 0.3522
141.5
141
140.5
140
139.5
139
138.5
pull
Entries 93
Mean −433.8
Std Dev 0
200
100
0
−100
−200
−300
pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

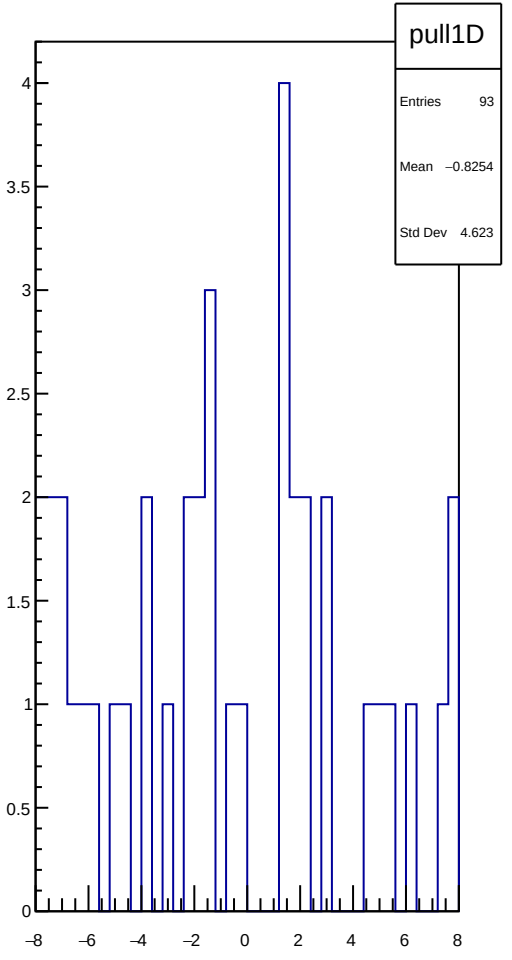

yield_bpm0i07WS_rms vs run
χ² / ndf 8.079e+04 / 92
p0 328.3 ± 0.249
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

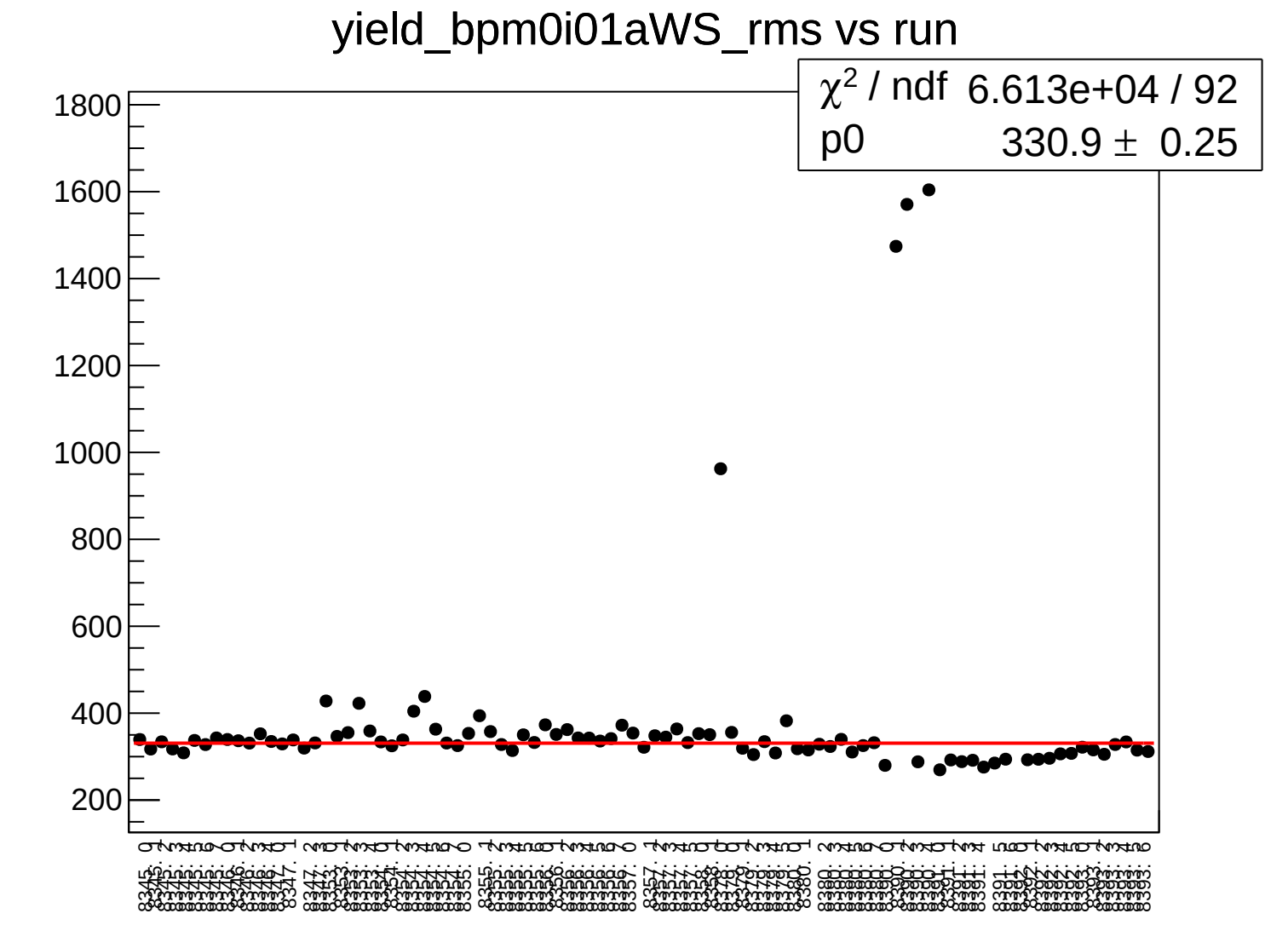

yield_bpm0i01WS_mean vs run
×10^3
χ^2 / ndf 7.853e+05 / 92
p0 1.604e+05 ± 0.3868
161.4
161.2
161
160.8
160.6
160.4
160.2
160
159.8
159.6
159.4
pull
Entries 93
Mean −150.8
Std Dev 0
250
200
150
100
50
0
−50
−100
−150
−200

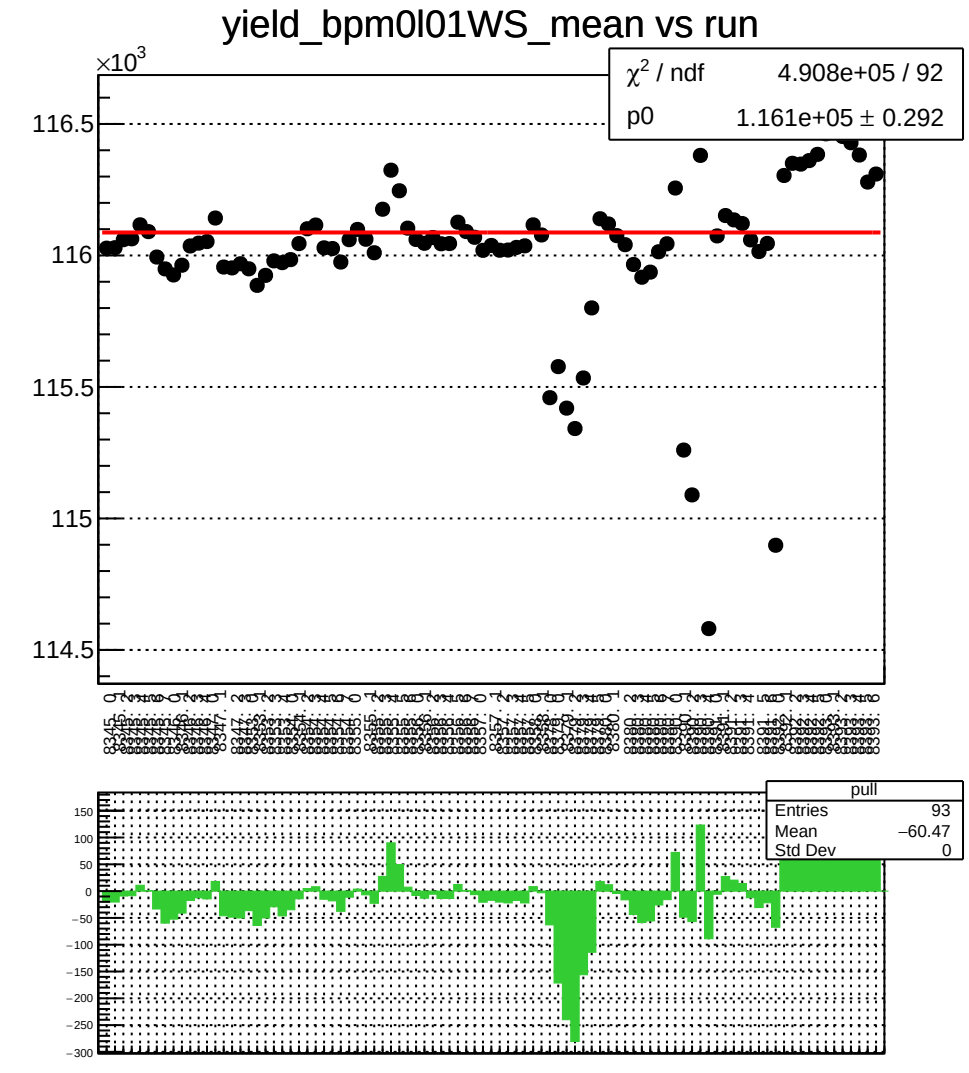

pull1D
Entries 93
Mean −3.973
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

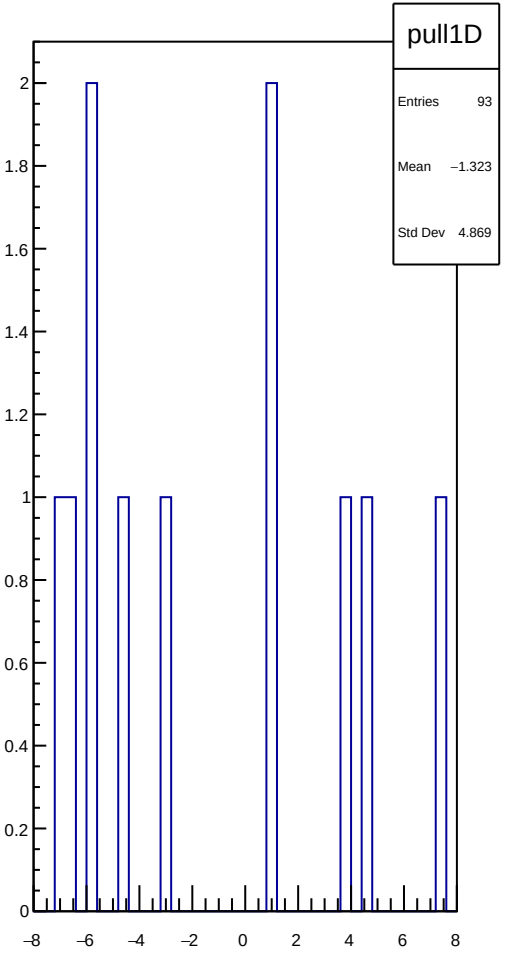

yield_bpm0i01WS_rms vs run
χ² / ndf 6.74e+04 / 92
p0 362 ± 0.2735
1800
1600
1400
1200
1000
800
600
400
200

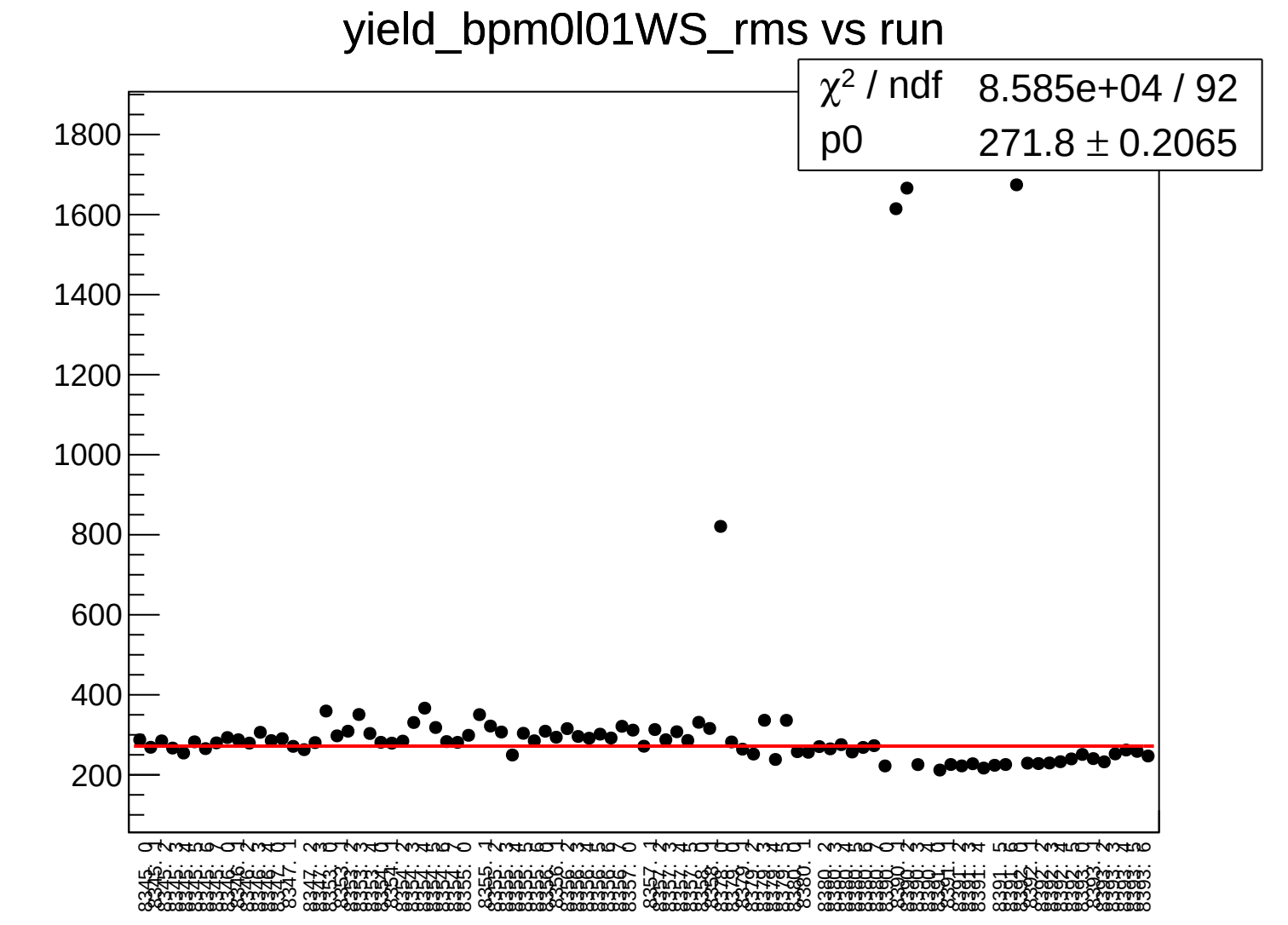

yield_bpm0i01aWS_mean vs run
×10^3
χ² / ndf 2.132e+05 / 92
p0 1.531e+05 ± 0.3535
153.4
153.2
153
152.8
152.6
152.4
152.2
152
151.8
151.6
pull
Entries 93
Mean 30.14
Std Dev 0
50
0
−50
−100
−150
−200

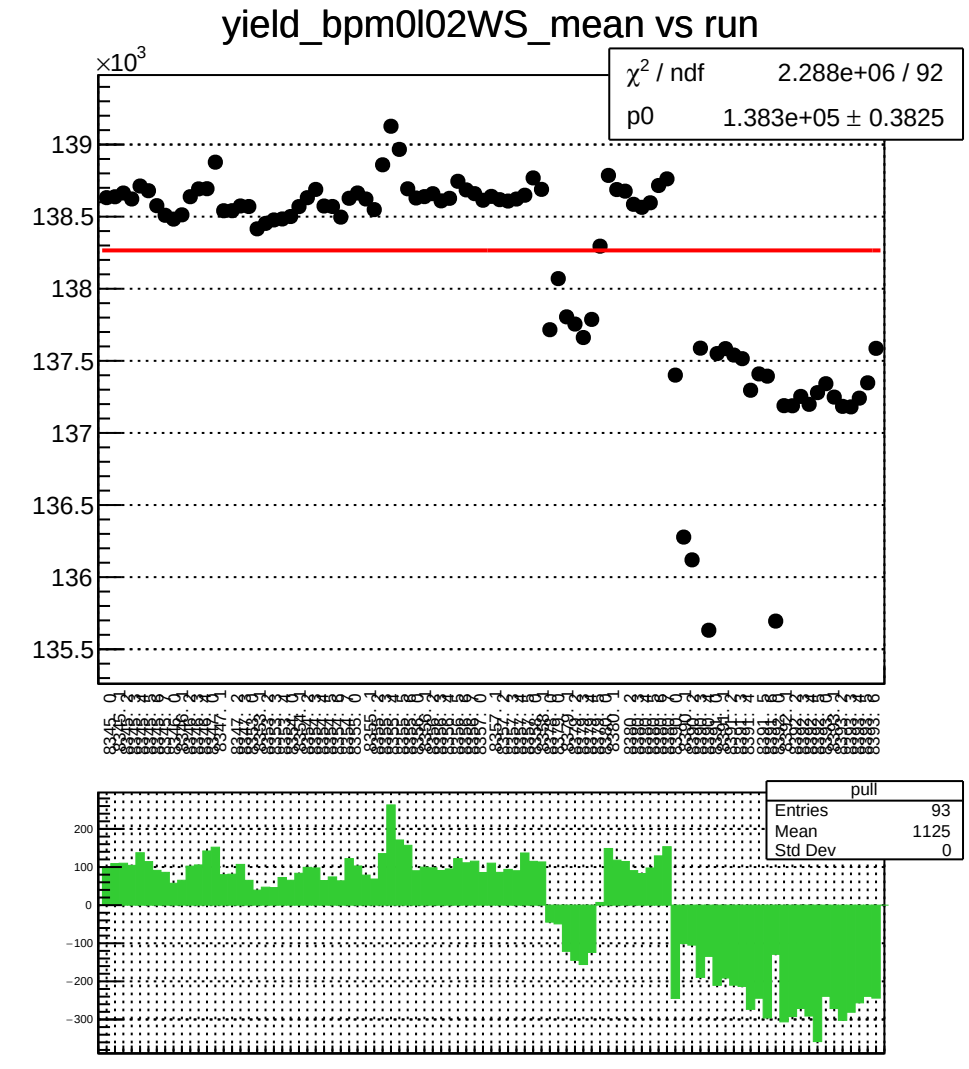

pull1D
Entries 93
Mean −0.8254
Std Dev 4.623
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

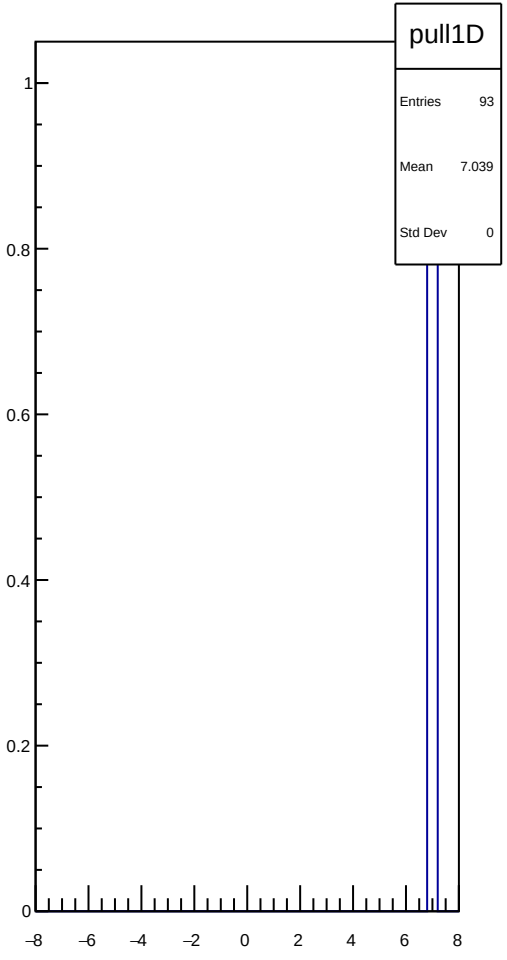

yield_bpm0i01aWS_rms vs run
χ² / ndf 6.613e+04 / 92
p0 330.9 ± 0.25
1800
1600
1400
1200
1000
800
600
400
200

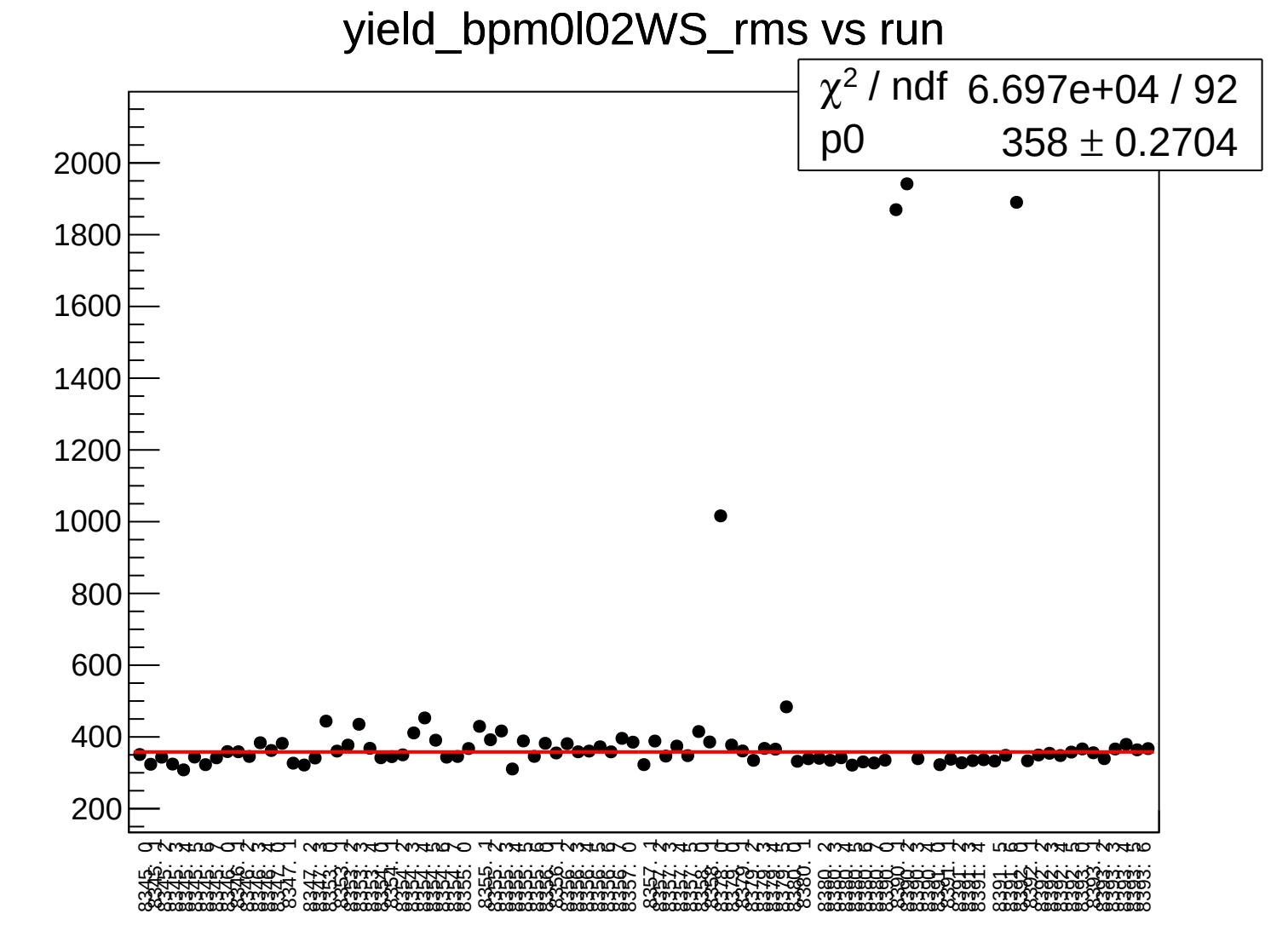

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 4.908e+05 / 92
p0 1.161e+05 ± 0.292
116.5
116
115.5
115
114.5
pull
Entries 93
Mean −60.47
Std Dev 0
150
100
50
0
−50
−100
−150
−200
−250
−300

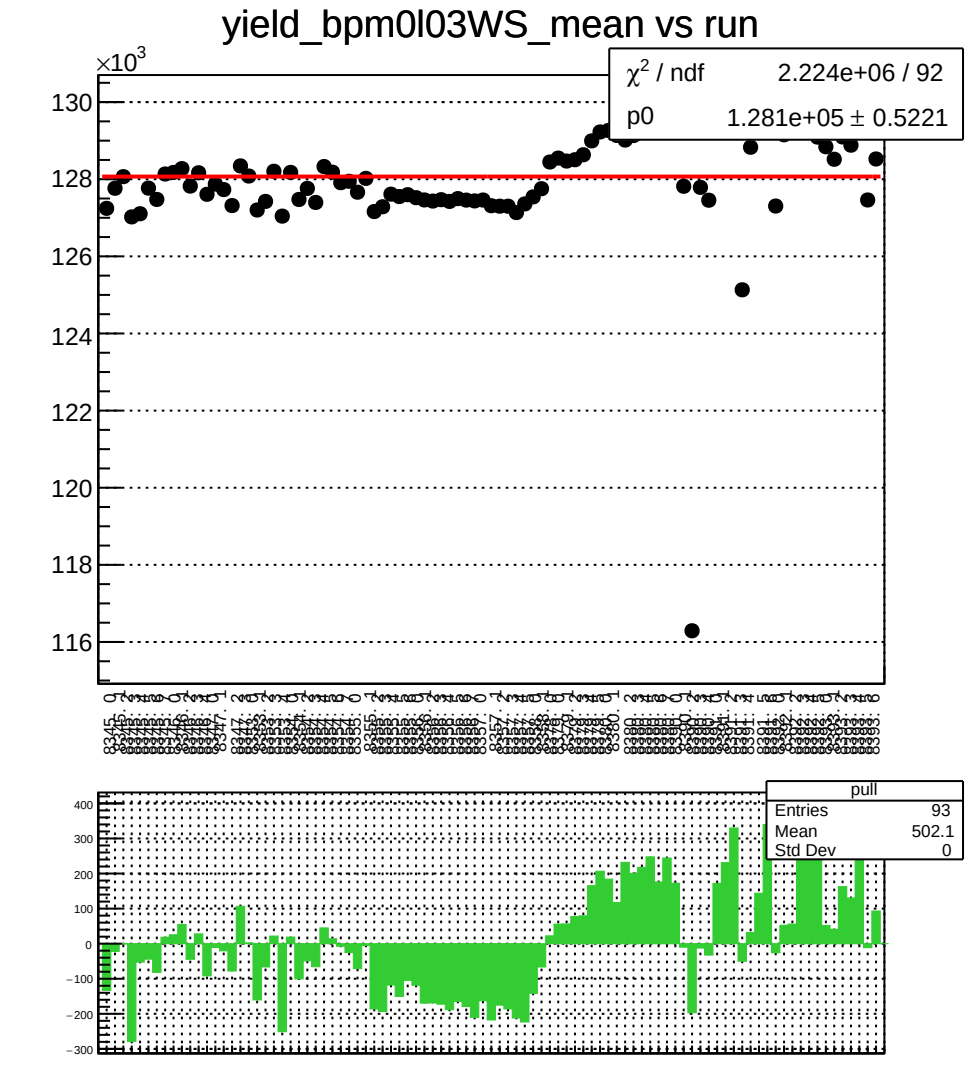

pull1D
Entries 93
Mean −1.323
Std Dev 4.869
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

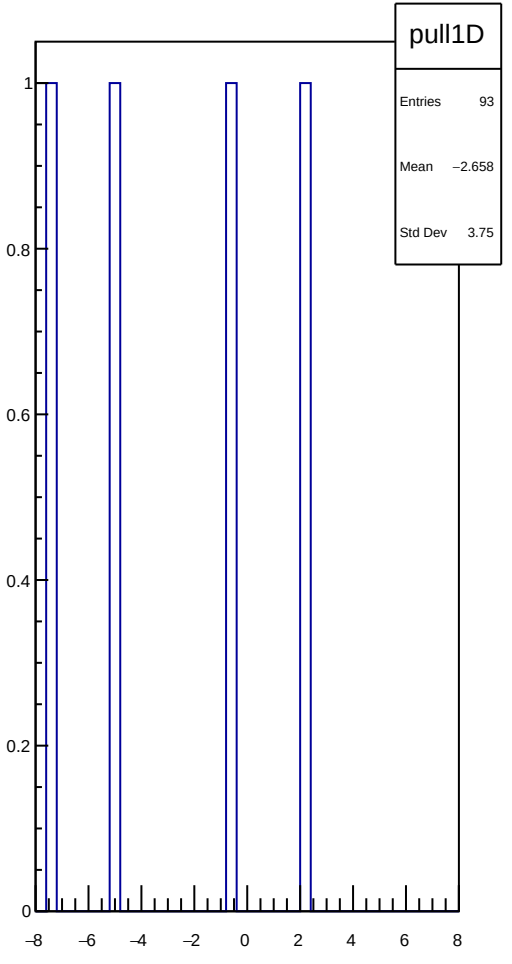

yield_bpm0l01WS_rms vs run
χ² / ndf 8.585e+04 / 92
p0 271.8 ± 0.2065
1800
1600
1400
1200
1000
800
600
400
200

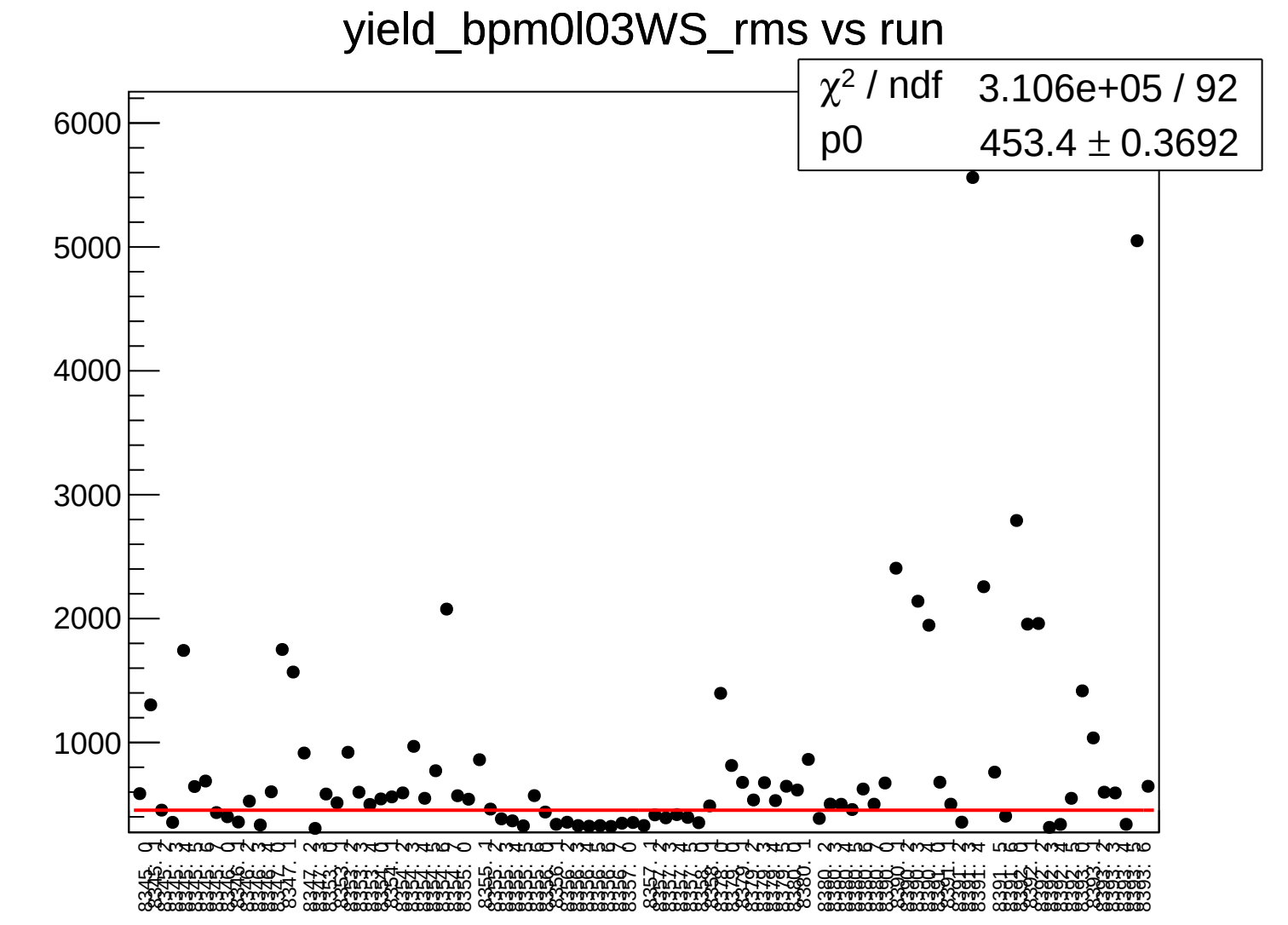

yield_bpm0l02WS_mean vs run
×10^3
χ² / ndf 2.288e+06 / 92
p0 1.383e+05 ± 0.3825
139
138.5
138
137.5
137
136.5
136
135.5
pull
Entries 93
Mean 1125
Std Dev 0
200
100
0
−100
−200
−300

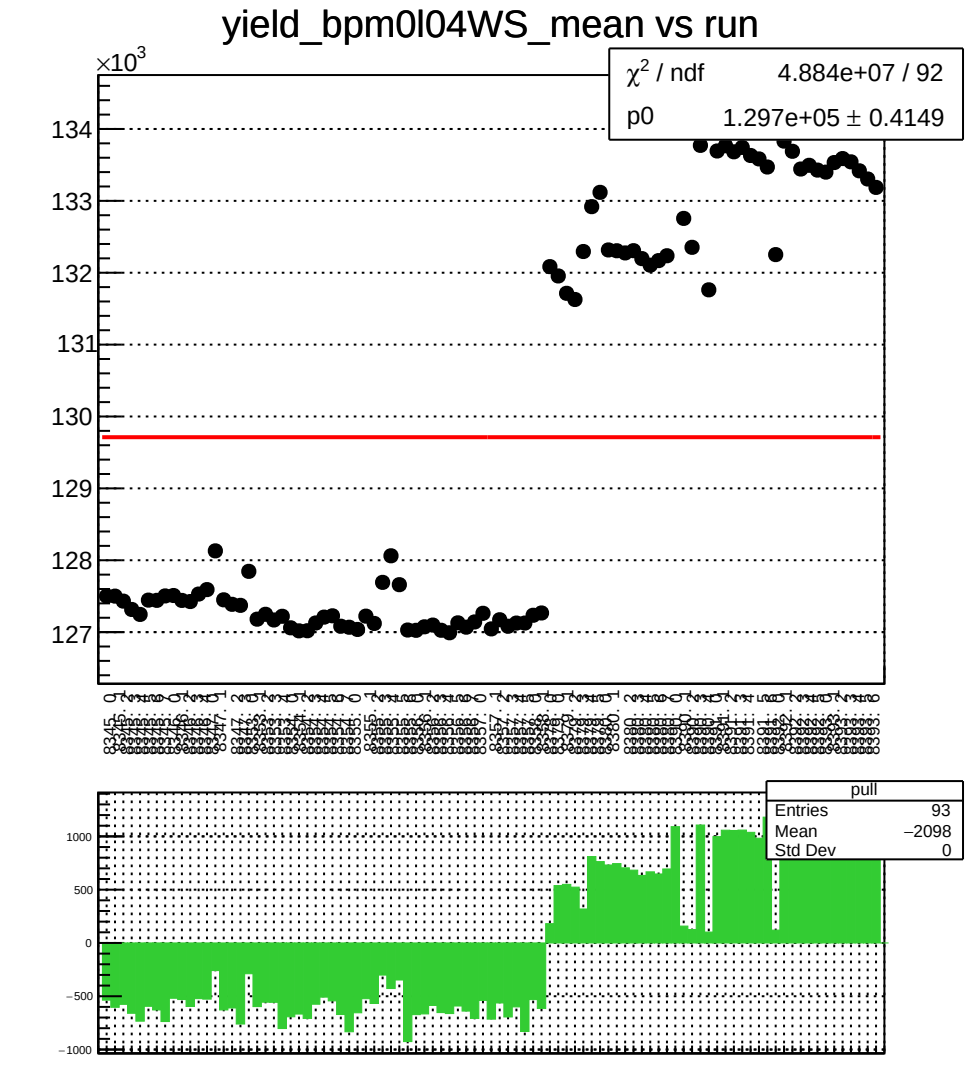

pull1D
Entries 93
Mean 7.039
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

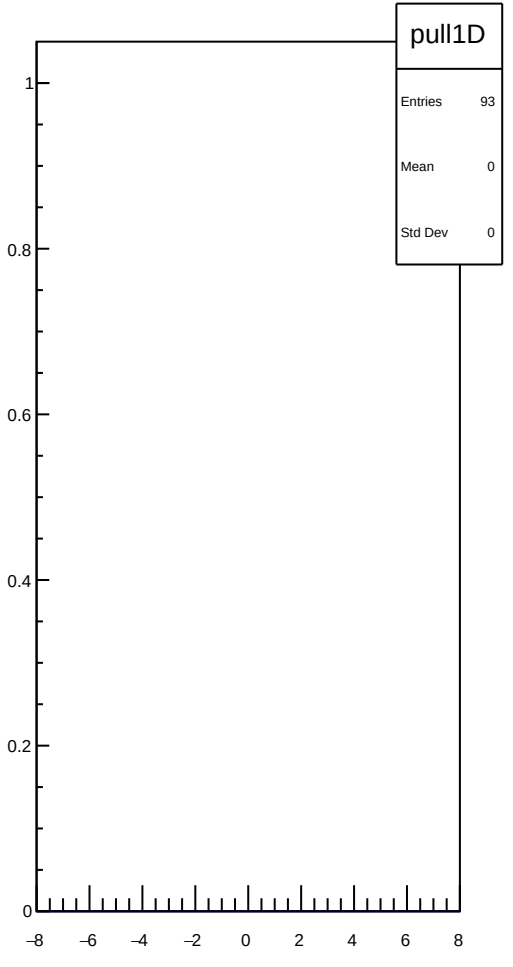

yield_bpm0l02WS_rms vs run
χ^2 / ndf 6.697e+04 / 92
p0 358 ± 0.2704
2000
1800
1600
1400
1200
1000
800
600
400
200

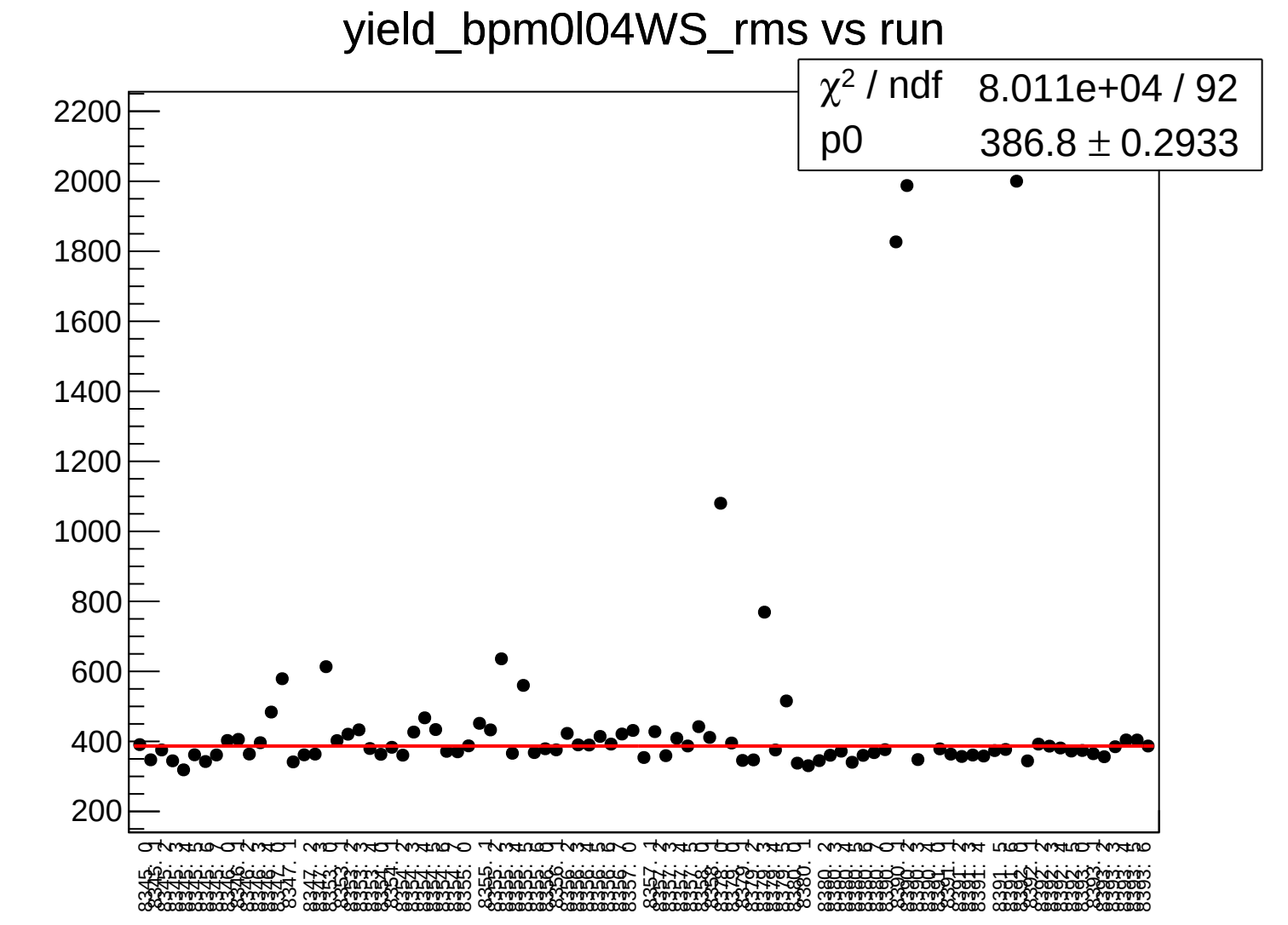

yield_bpm0l03WS_mean vs run
×10^3
130
128
126
124
122
120
118
116
χ² / ndf 2.224e+06 / 92
p0 1.281e+05 ± 0.5221
pull
Entries 93
Mean 502.1
Std Dev 0
400
300
200
100
0
−100
−200
−300

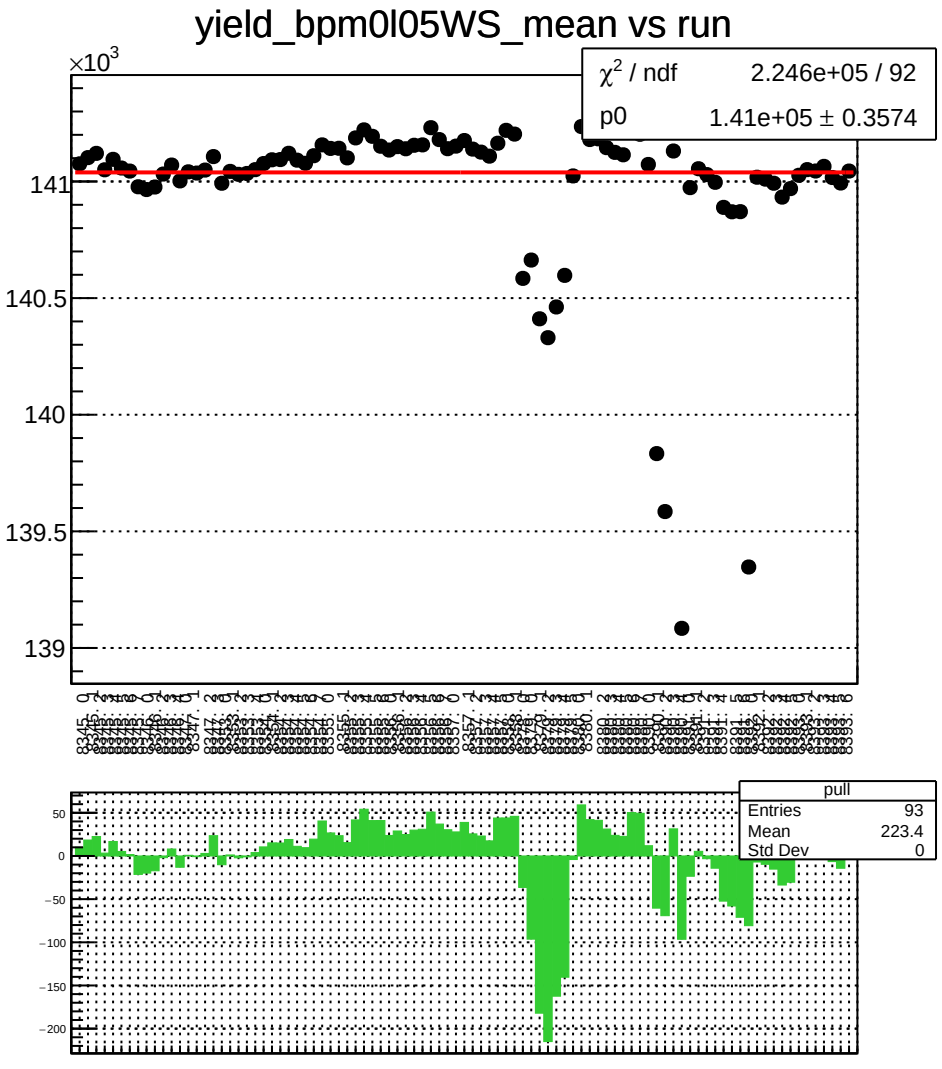

pull1D
Entries 93
Mean −2.658
Std Dev 3.75
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

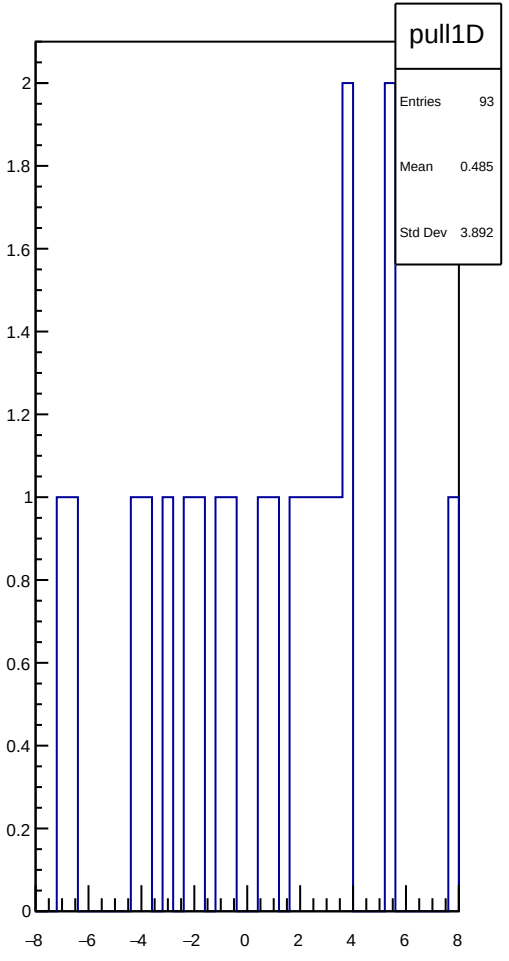

yield_bpm0l03WS_rms vs run
χ² / ndf 3.106e+05 / 92
p0 453.4 ± 0.3692
6000
5000
4000
3000
2000
1000

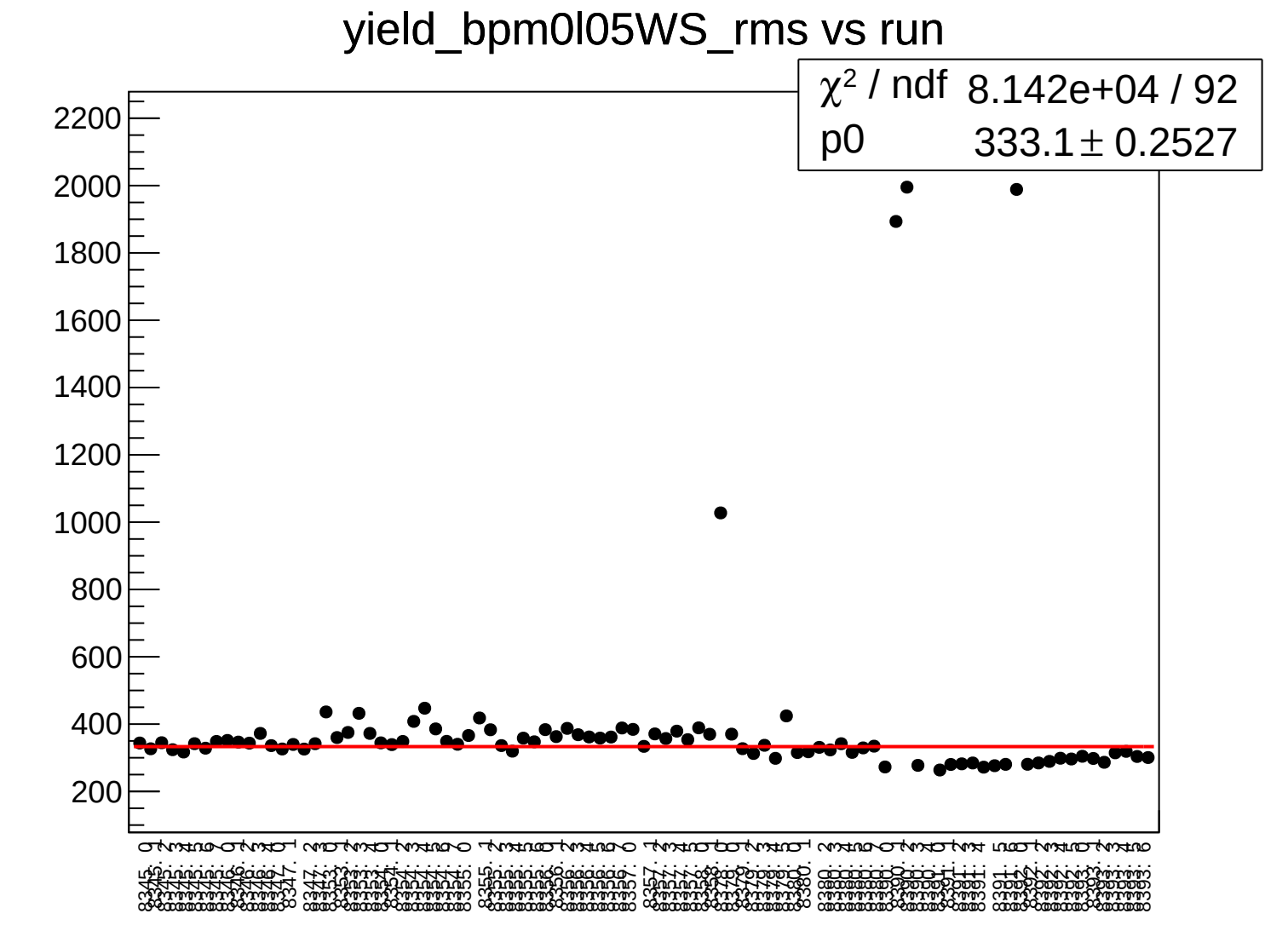

yield_bpm0l04WS_mean vs run
×10^3
χ² / ndf 4.884e+07 / 92
p0 1.297e+05 ± 0.4149
134
133
132
131
130
129
128
127
pull
Entries 93
Mean −2098
Std Dev 0
1000
500
0
−500
−1000

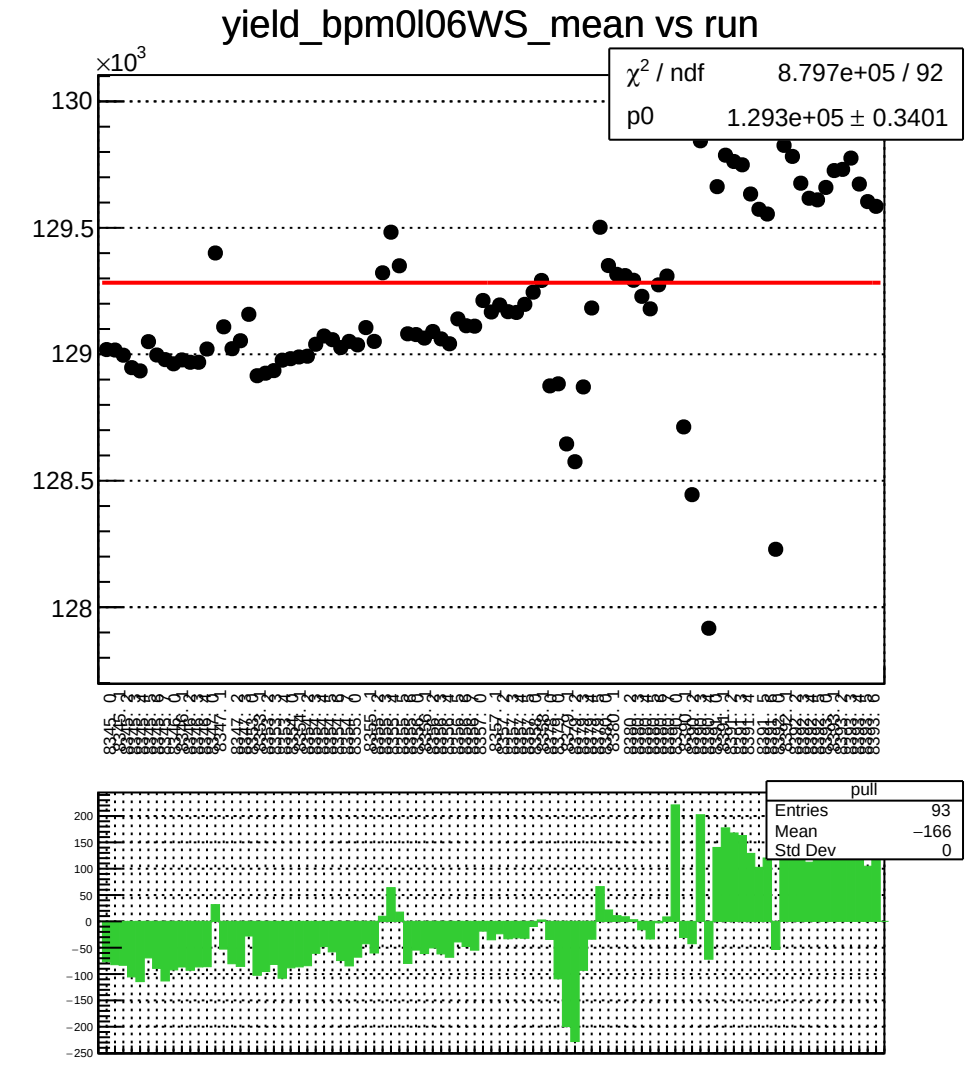

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

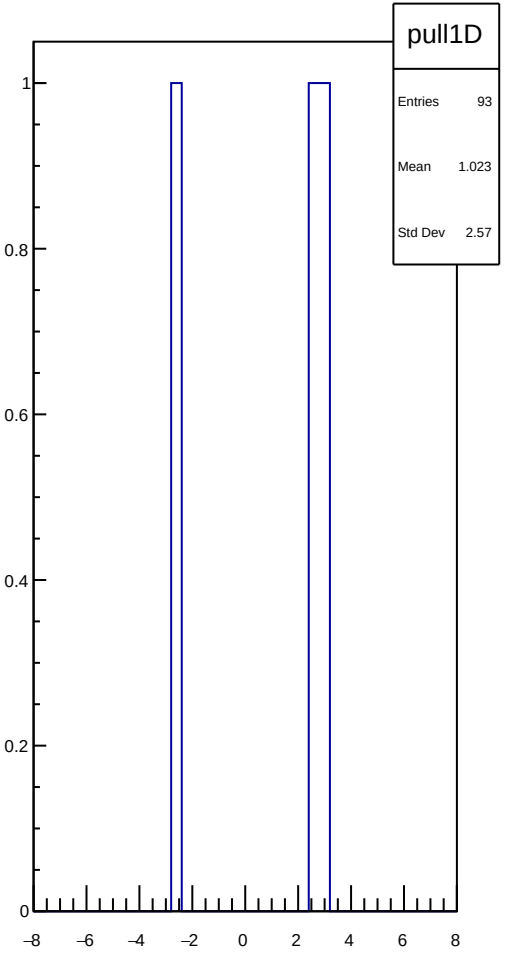

yield_bpm0l04WS_rms vs run
χ² / ndf 8.011e+04 / 92
p0 386.8 ± 0.2933
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

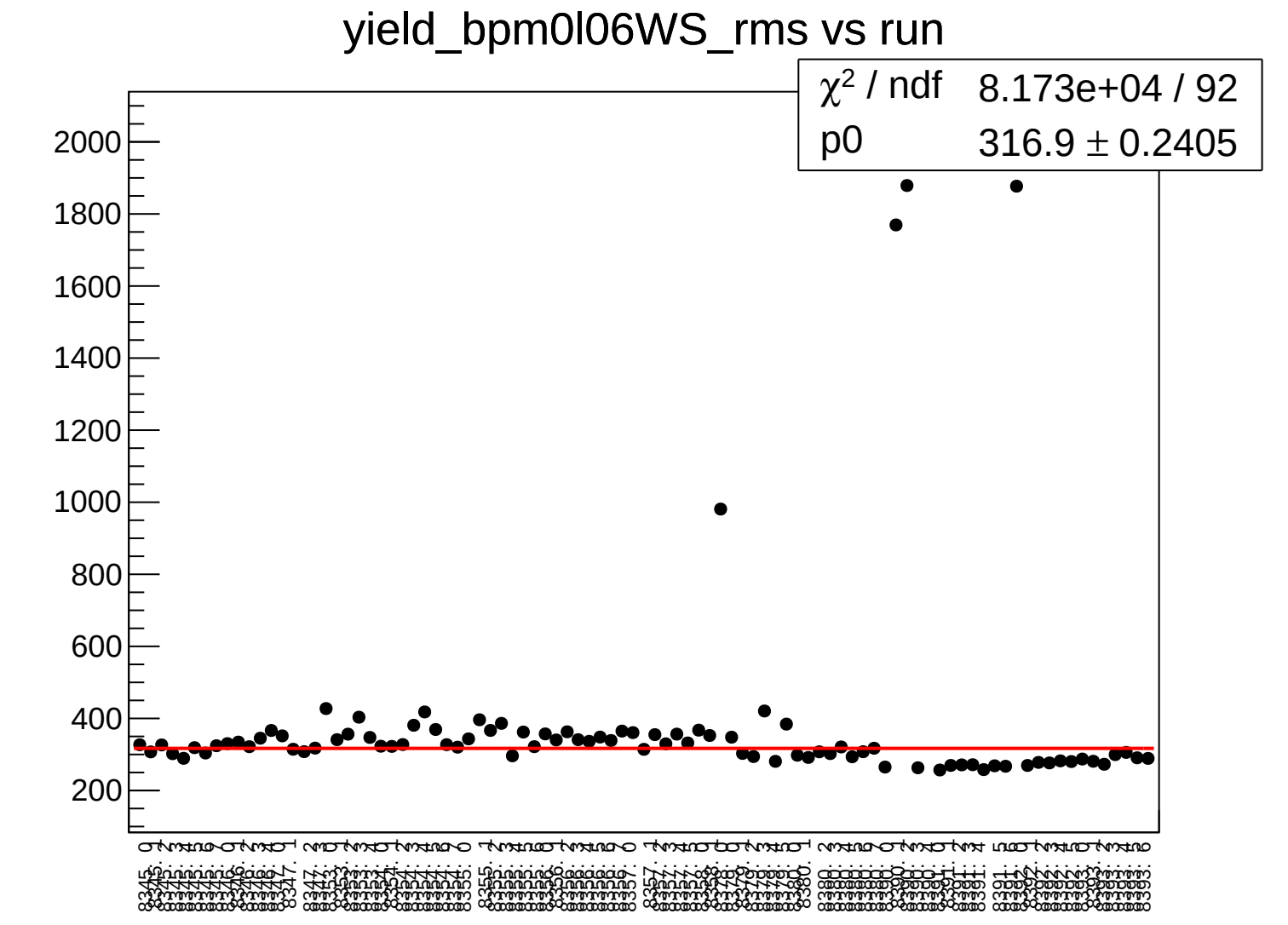

yield_bpm0l05WS_mean vs run
×10^3
χ² / ndf 2.246e+05 / 92
p0 1.41e+05 ± 0.3574
141
140.5
140
139.5
139
pull
Entries 93
Mean 223.4
Std Dev 0
50
0
−50
−100
−150
−200

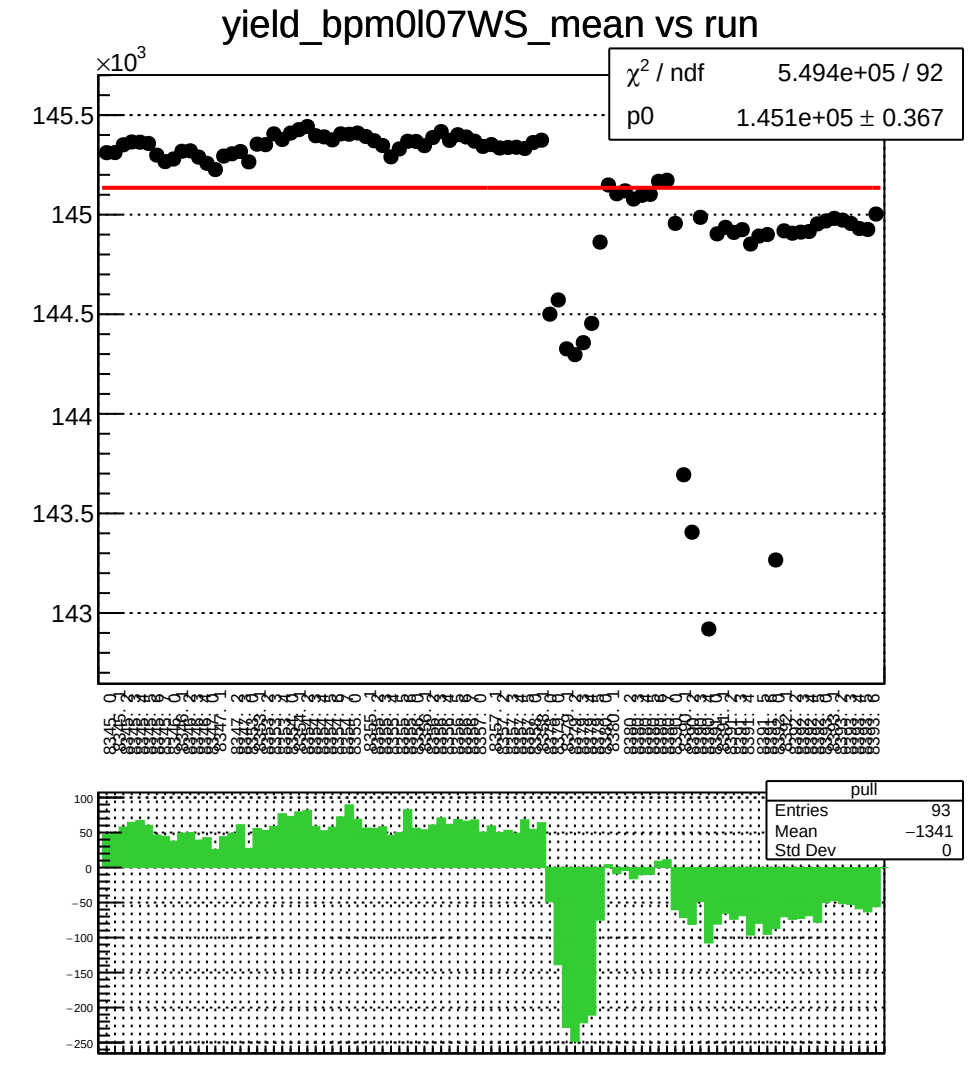

pull1D
Entries 93
Mean 0.485
Std Dev 3.892
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

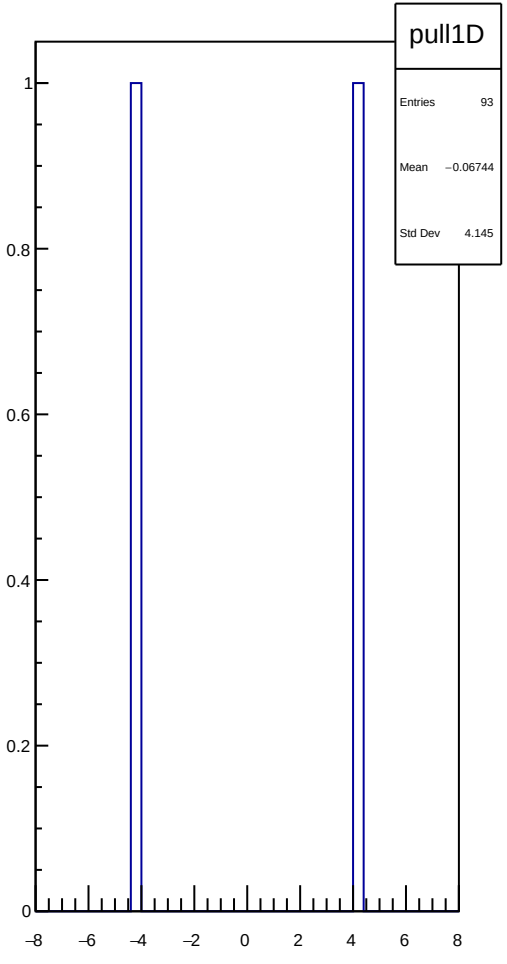

yield_bpm0l05WS_rms vs run
χ² / ndf 8.142e+04 / 92
p0 333.1 ± 0.2527
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

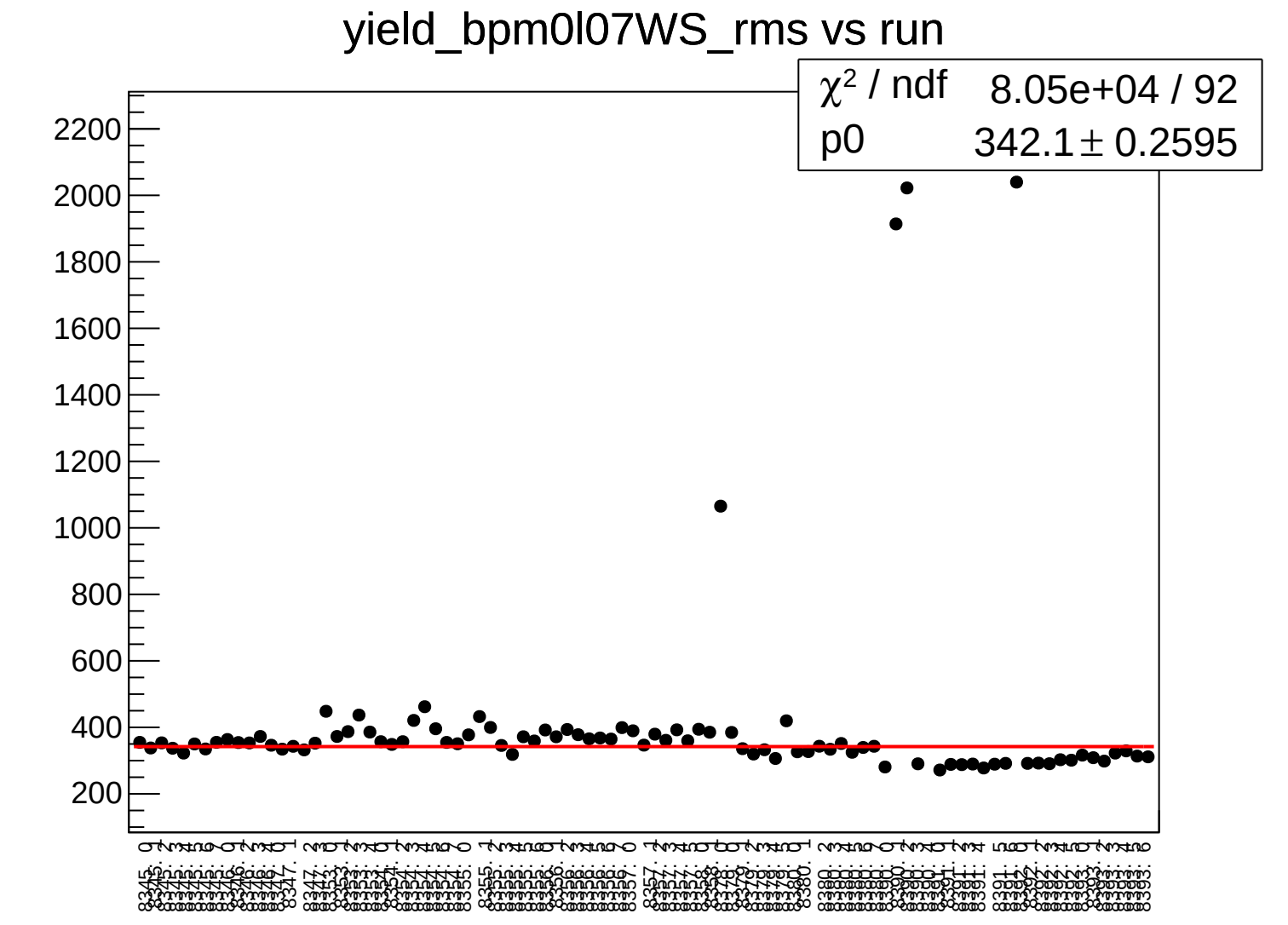

yield_bpm0l06WS_mean vs run
×10^3
130
129.5
129
128.5
128
χ² / ndf 8.797e+05 / 92
p0 1.293e+05 ± 0.3401
pull
Entries 93
Mean −166
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200
−250

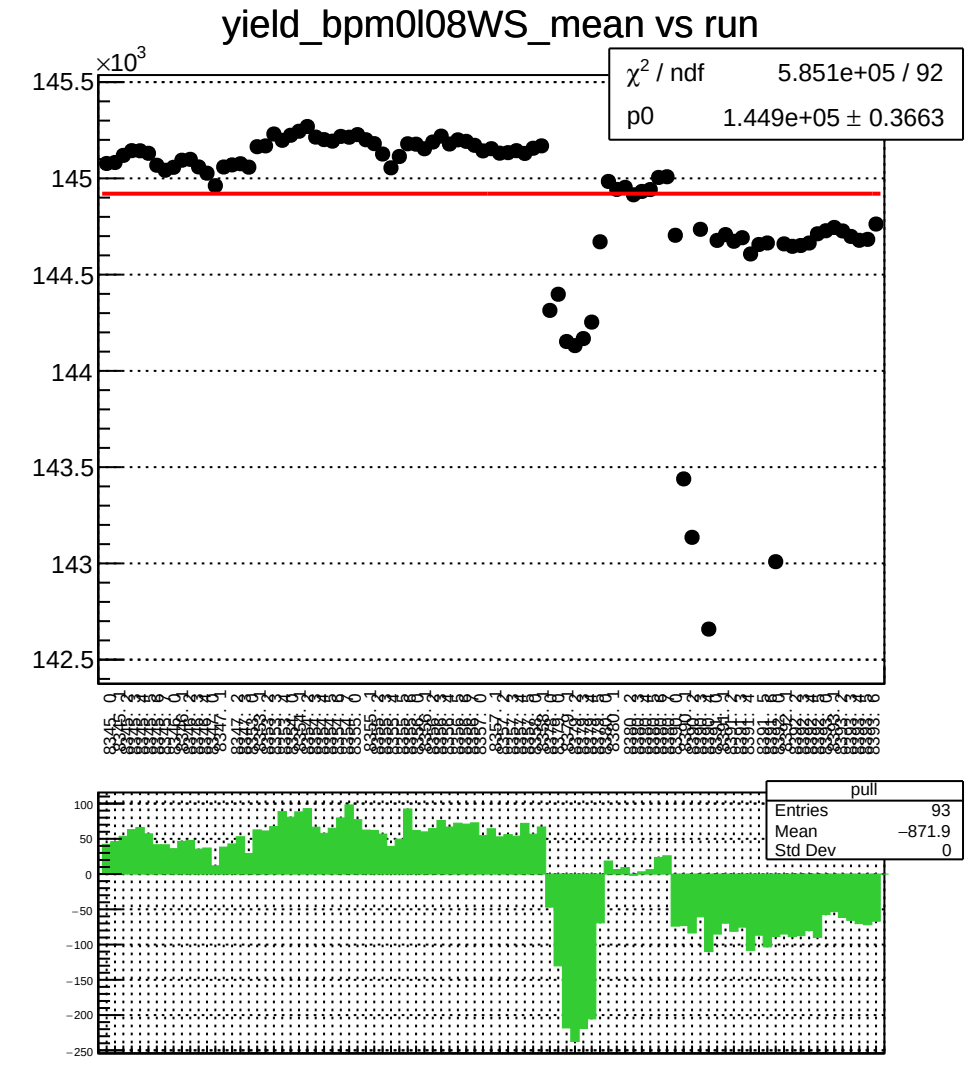

pull1D
Entries 93
Mean 1.023
Std Dev 2.57
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

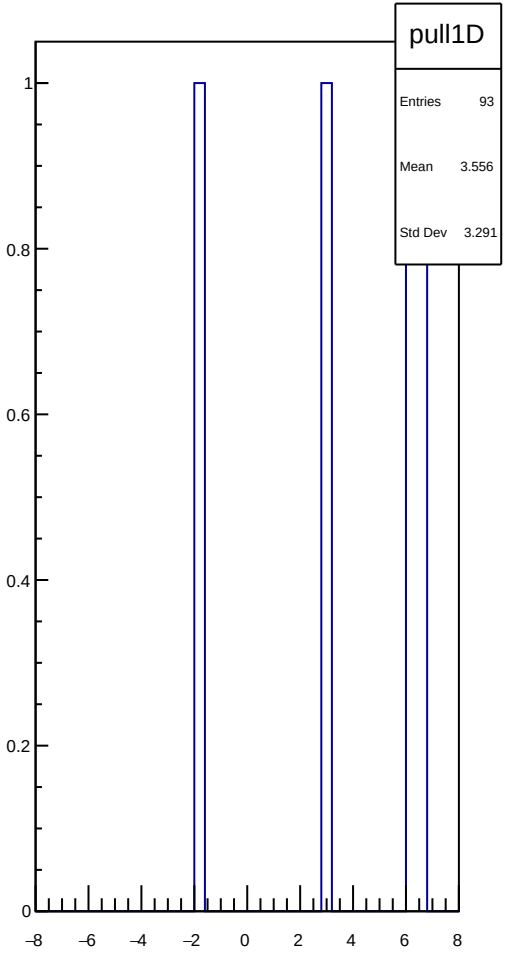

yield_bpm0l06WS_rms vs run
χ² / ndf 8.173e+04 / 92
p0 316.9 ± 0.2405
2000
1800
1600
1400
1200
1000
800
600
400
200

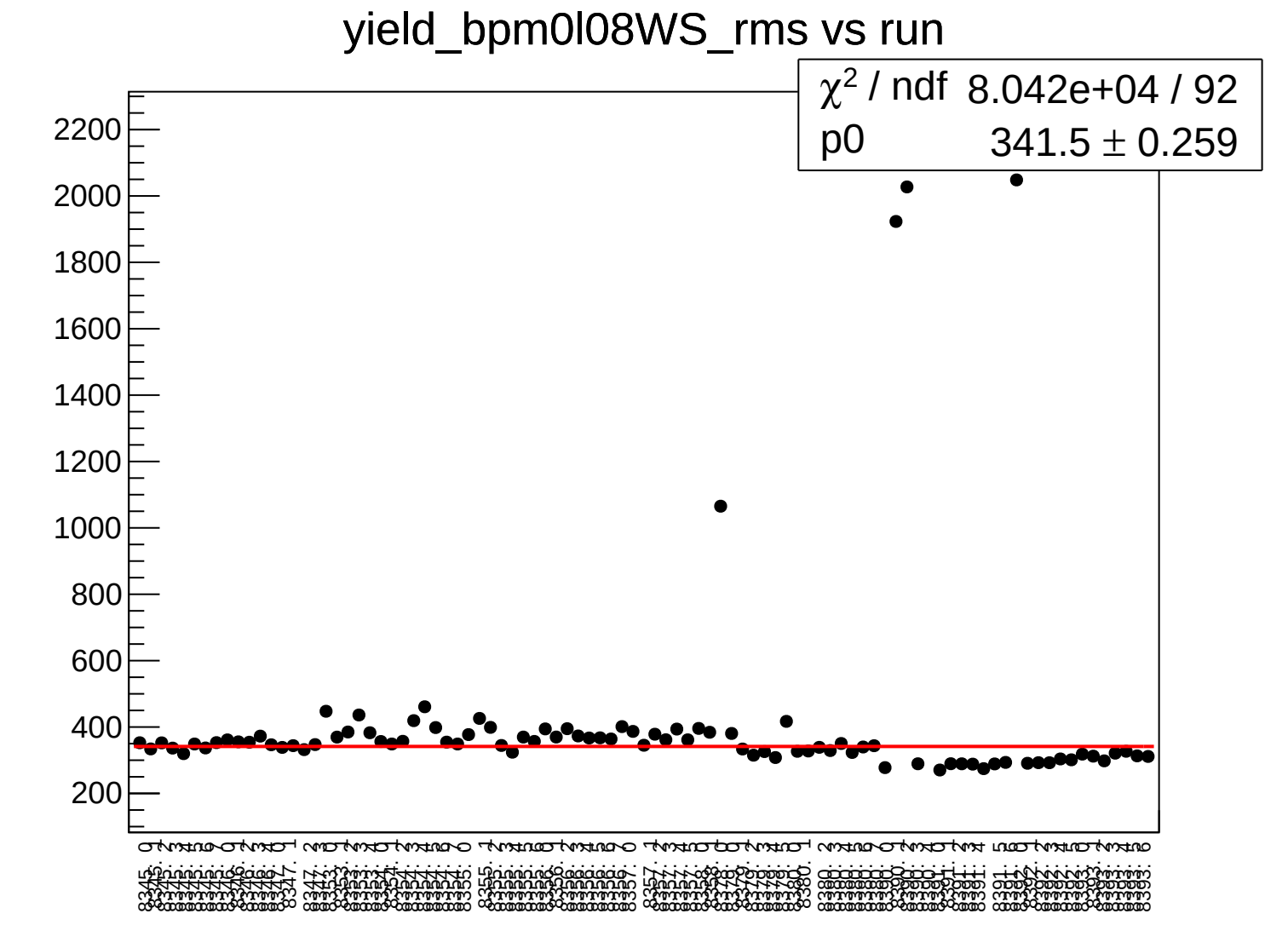

yield_bpm0l07WS_mean vs run
×10^3
χ² / ndf 5.494e+05 / 92
p0 1.451e+05 ± 0.367
145.5
145
144.5
144
143.5
143
pull
Entries 93
Mean −1341
Std Dev 0
100
50
0
−50
−100
−150
−200
−250

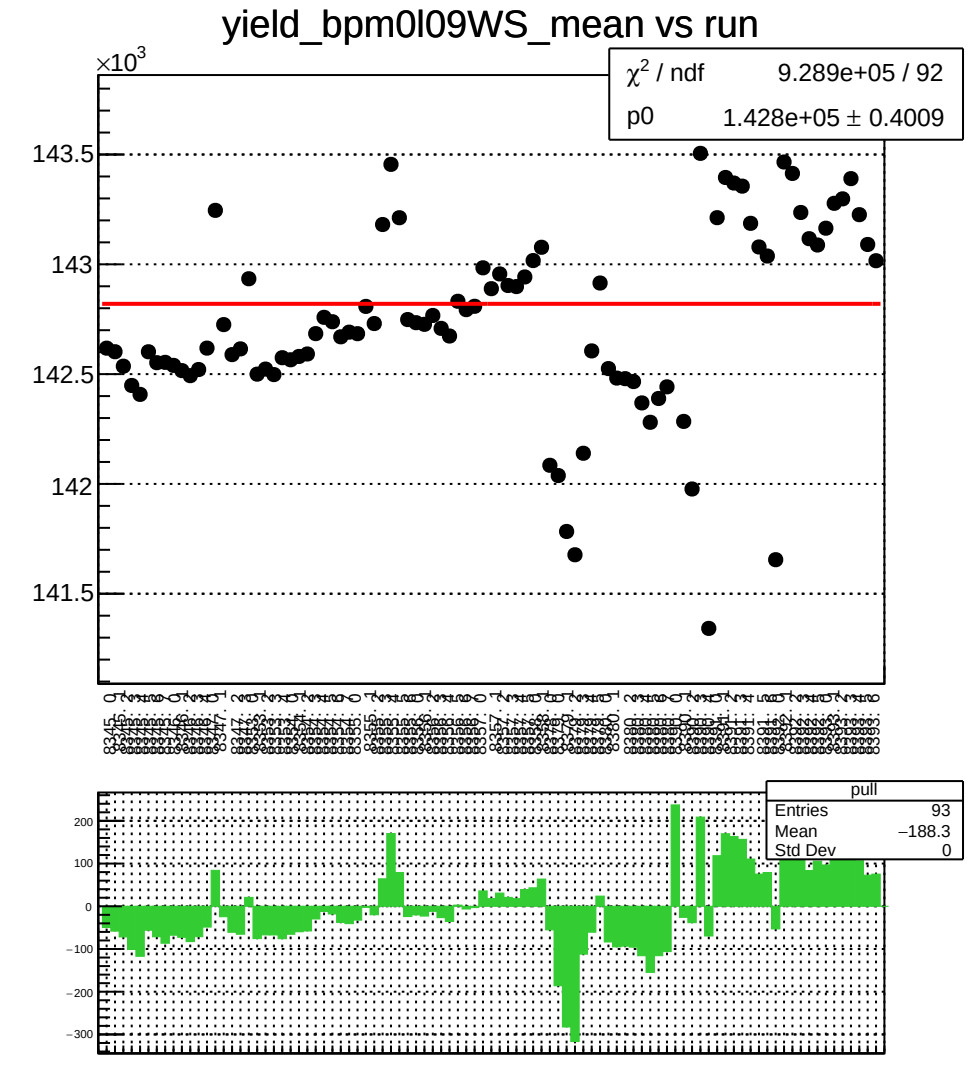

pull1D
Entries 93
Mean −0.06744
Std Dev 4.145
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

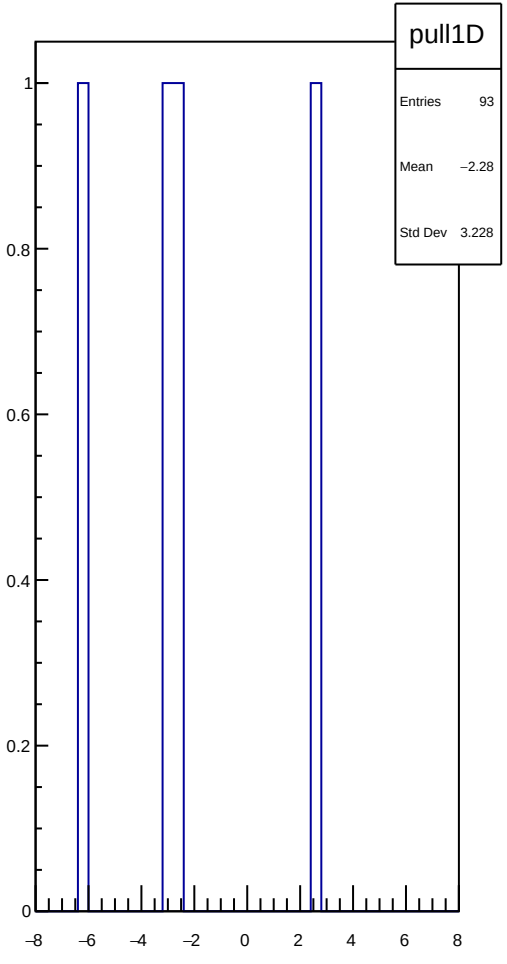

yield_bpm0l07WS_rms vs run
χ² / ndf 8.05e+04 / 92
p0 342.1 ± 0.2595
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

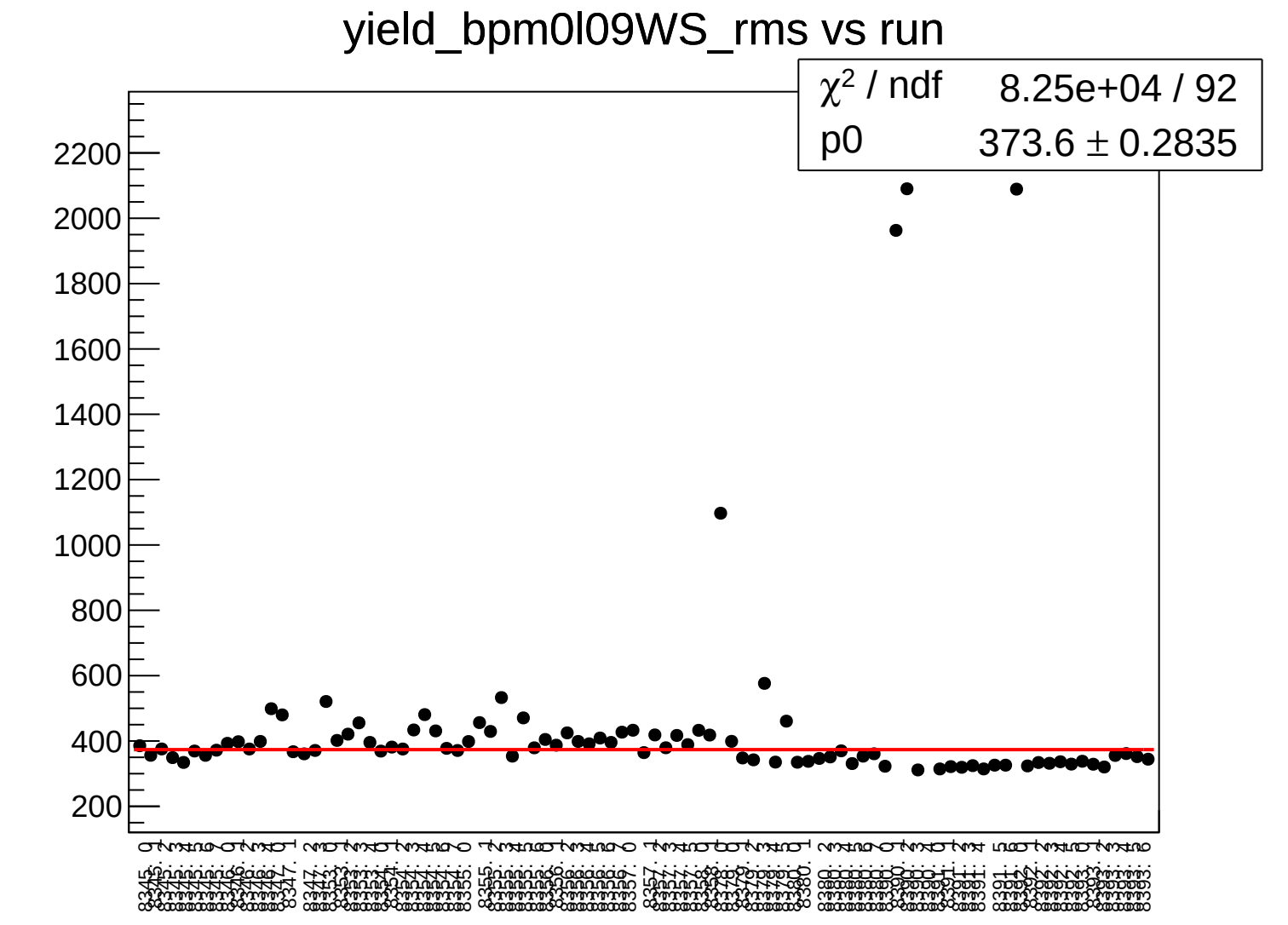

yield_bpm0l08WS_mean vs run
×10^3
145.5
145
144.5
144
143.5
143
142.5
χ² / ndf 5.851e+05 / 92
p0 1.449e+05 ± 0.3663
pull
Entries 93
Mean −871.9
Std Dev 0
100
50
0
−50
−100
−150
−200
−250

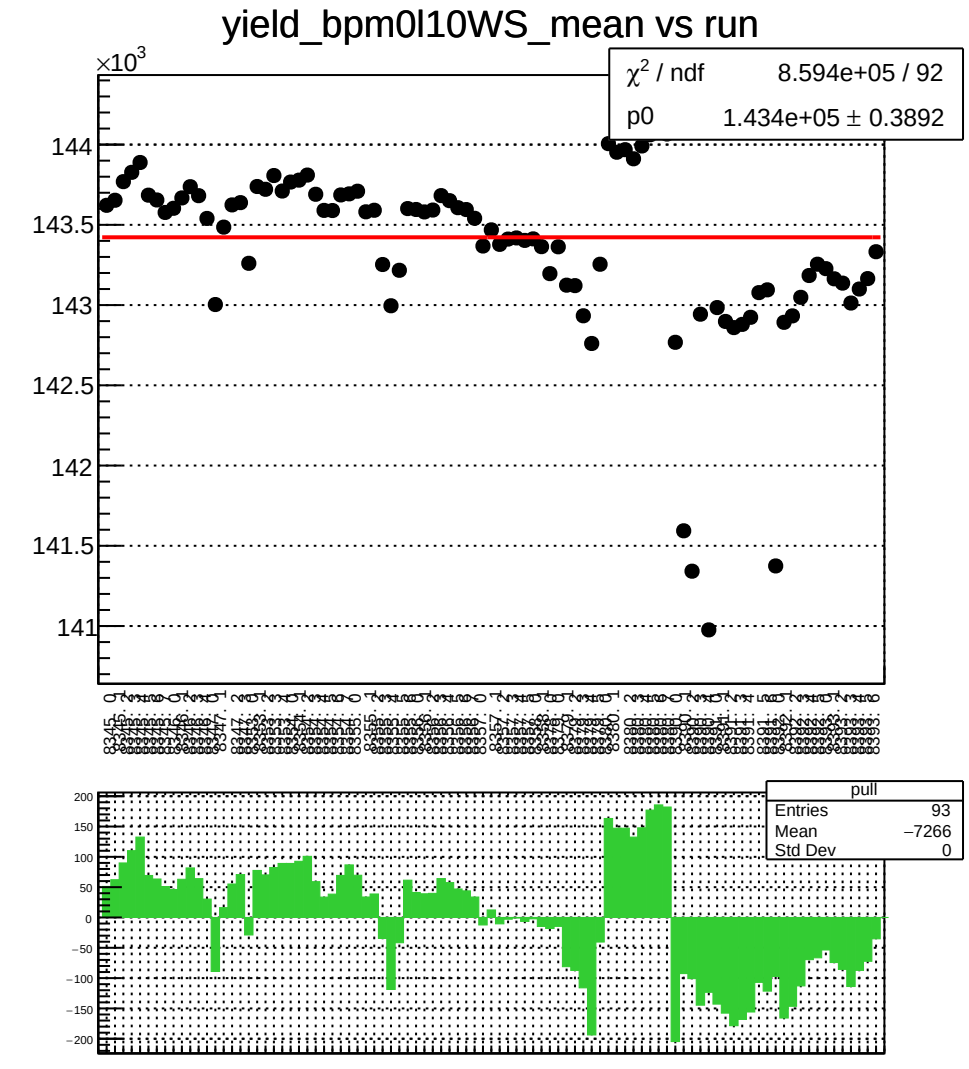

pull1D
Entries 93
Mean 3.556
Std Dev 3.291
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

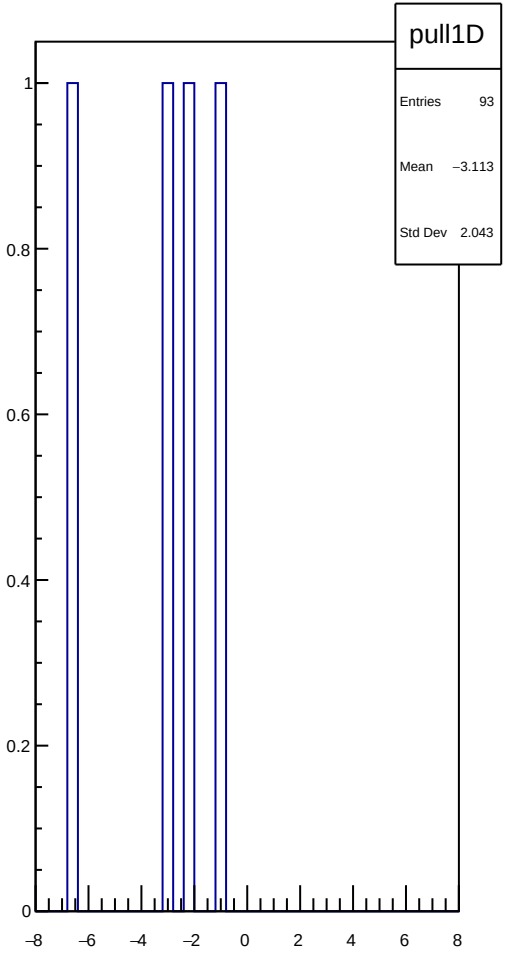

yield_bpm0l08WS_rms vs run
χ² / ndf 8.042e+04 / 92
p0 341.5 ± 0.259
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

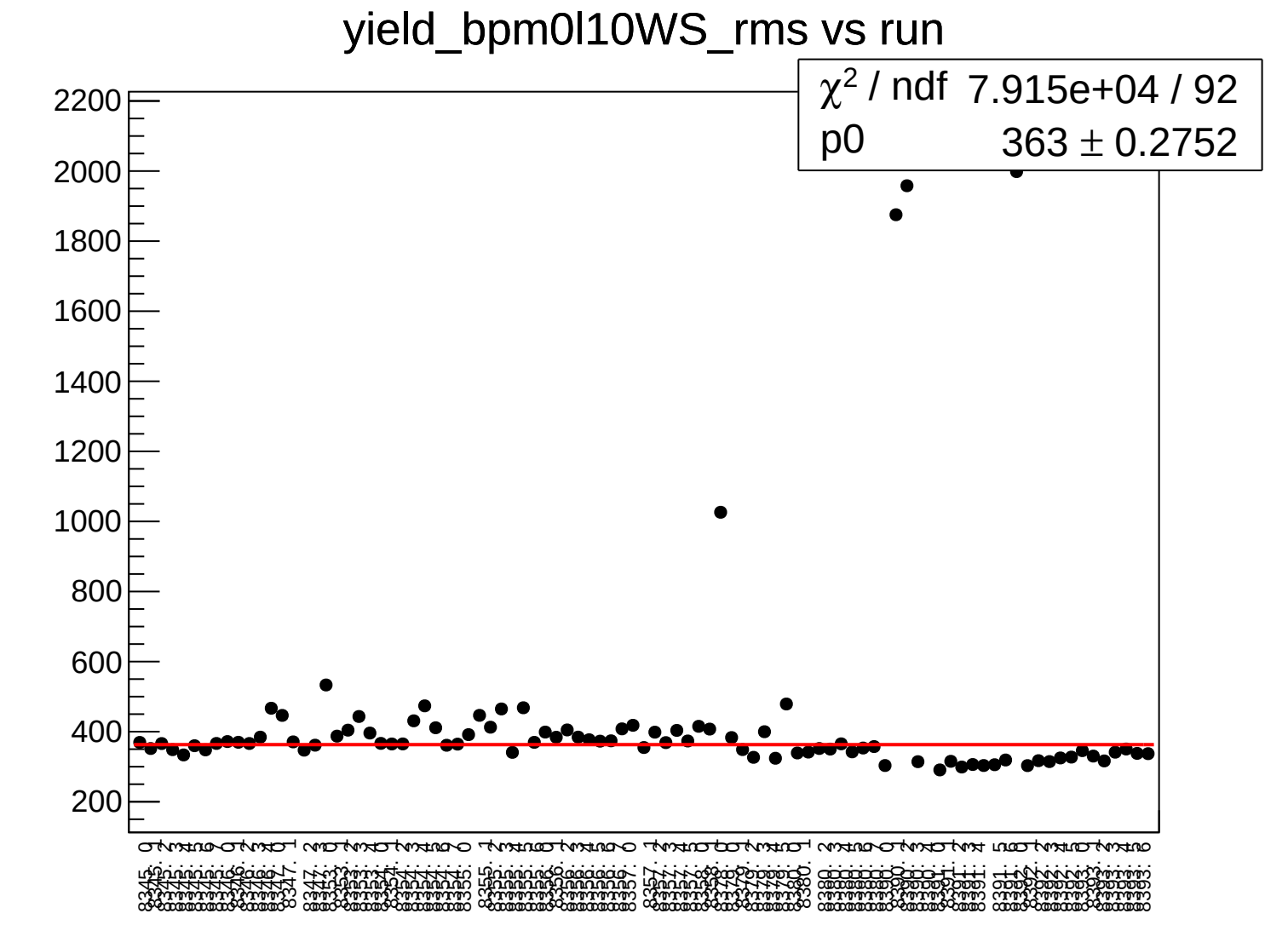

yield_bpm0l09WS_mean vs run
×10^3
χ² / ndf 9.289e+05 / 92
p0 1.428e+05 ± 0.4009
143.5
143
142.5
142
141.5
pull
Entries 93
Mean −188.3
Std Dev 0
200
100
0
−100
−200
−300

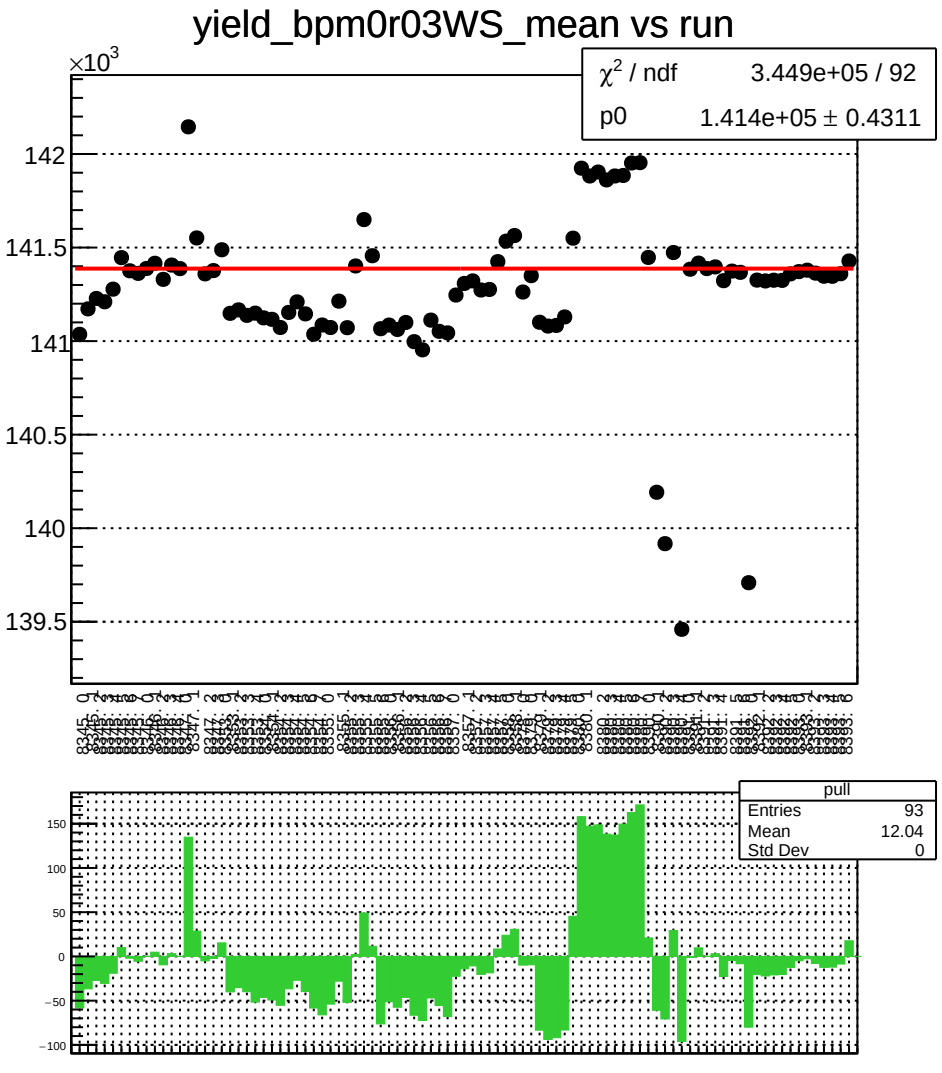

pull1D
Entries 93
Mean −2.28
Std Dev 3.228
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

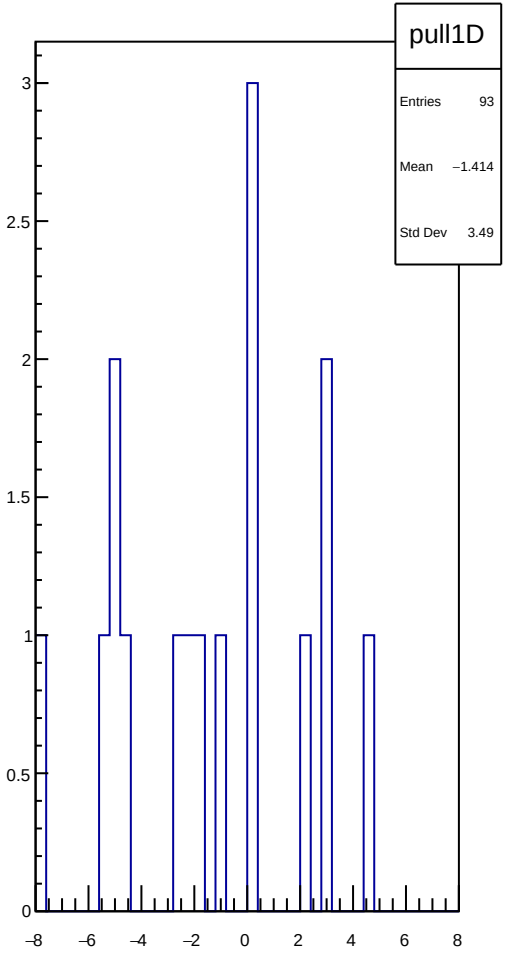

yield_bpm0l09WS_rms vs run
χ² / ndf 8.25e+04 / 92
p0 373.6 ± 0.2835
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

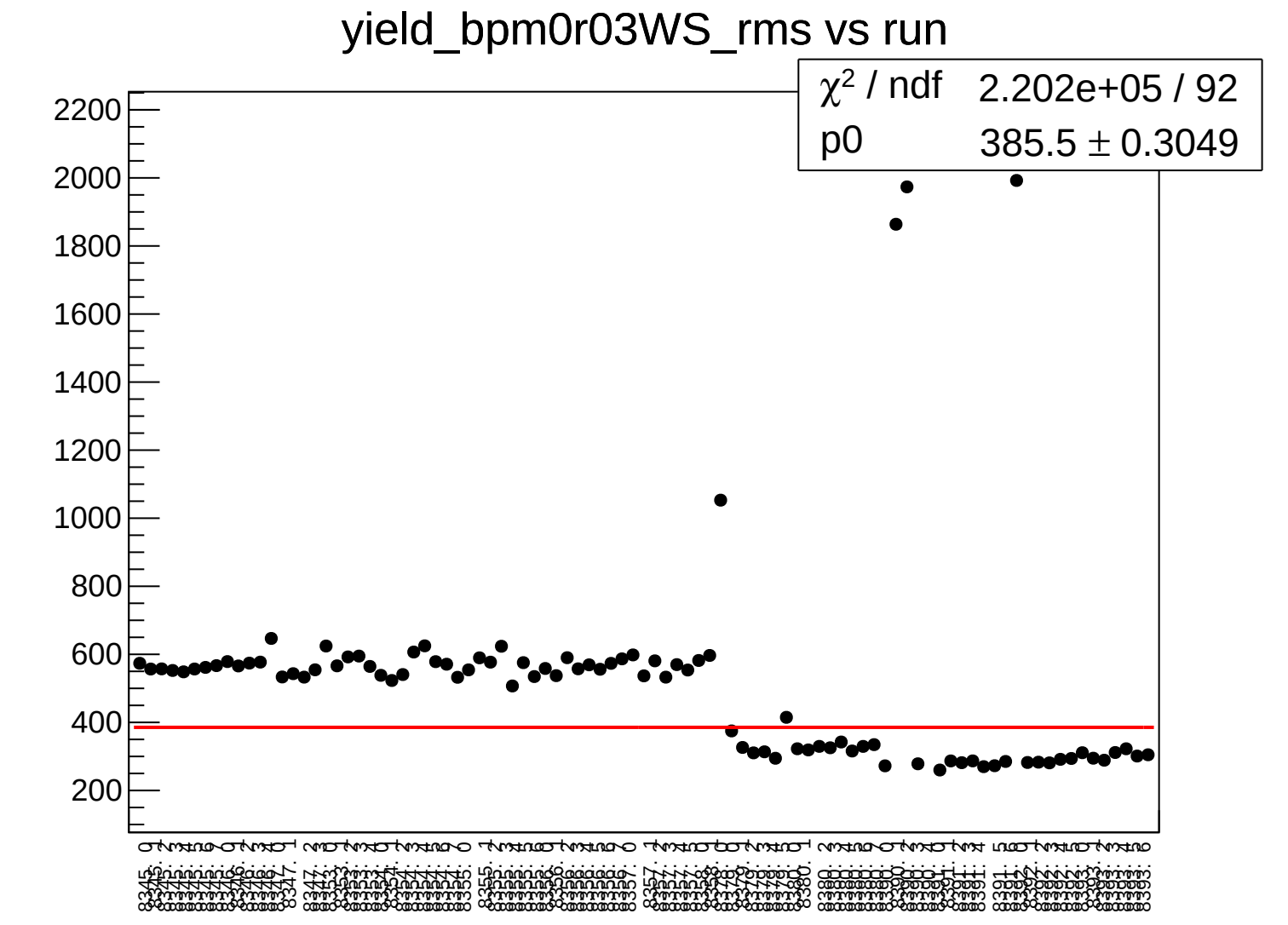

yield_bpm0l10WS_mean vs run
×10^3
χ^2 / ndf 8.594e+05 / 92
p0 1.434e+05 ± 0.3892
144
143.5
143
142.5
142
141.5
141
pull
Entries 93
Mean −7266
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200

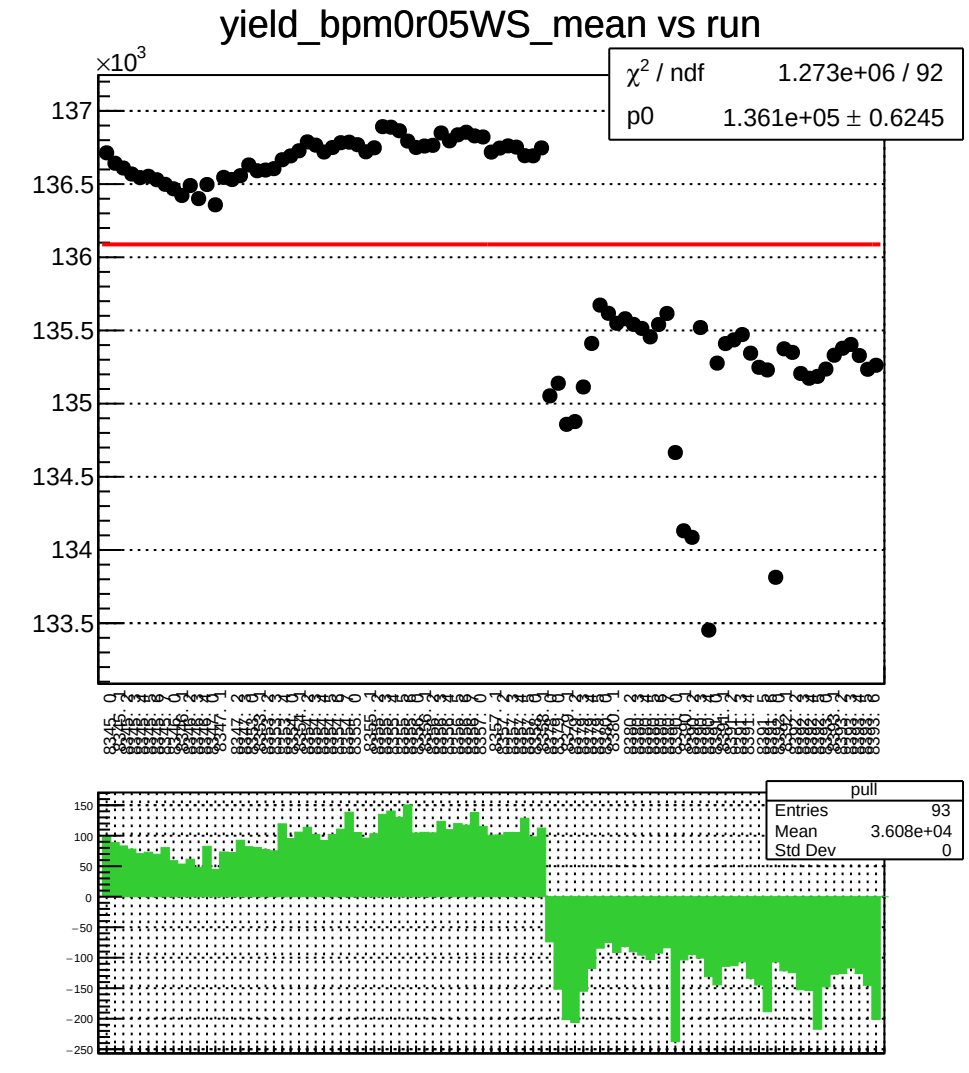

pull1D
Entries 93
Mean −3.113
Std Dev 2.043
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

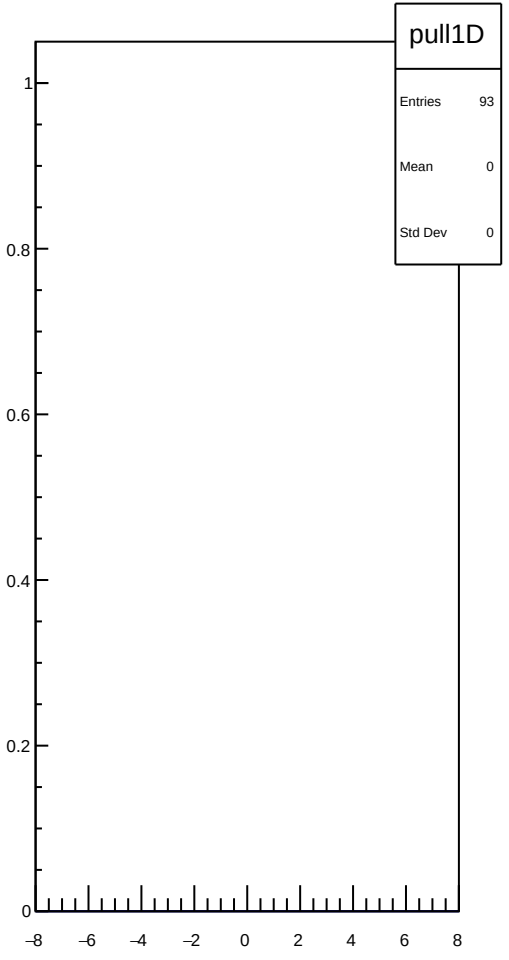

yield_bpm0l10WS_rms vs run
χ^2 / ndf 7.915e+04 / 92
p0 363 ± 0.2752
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

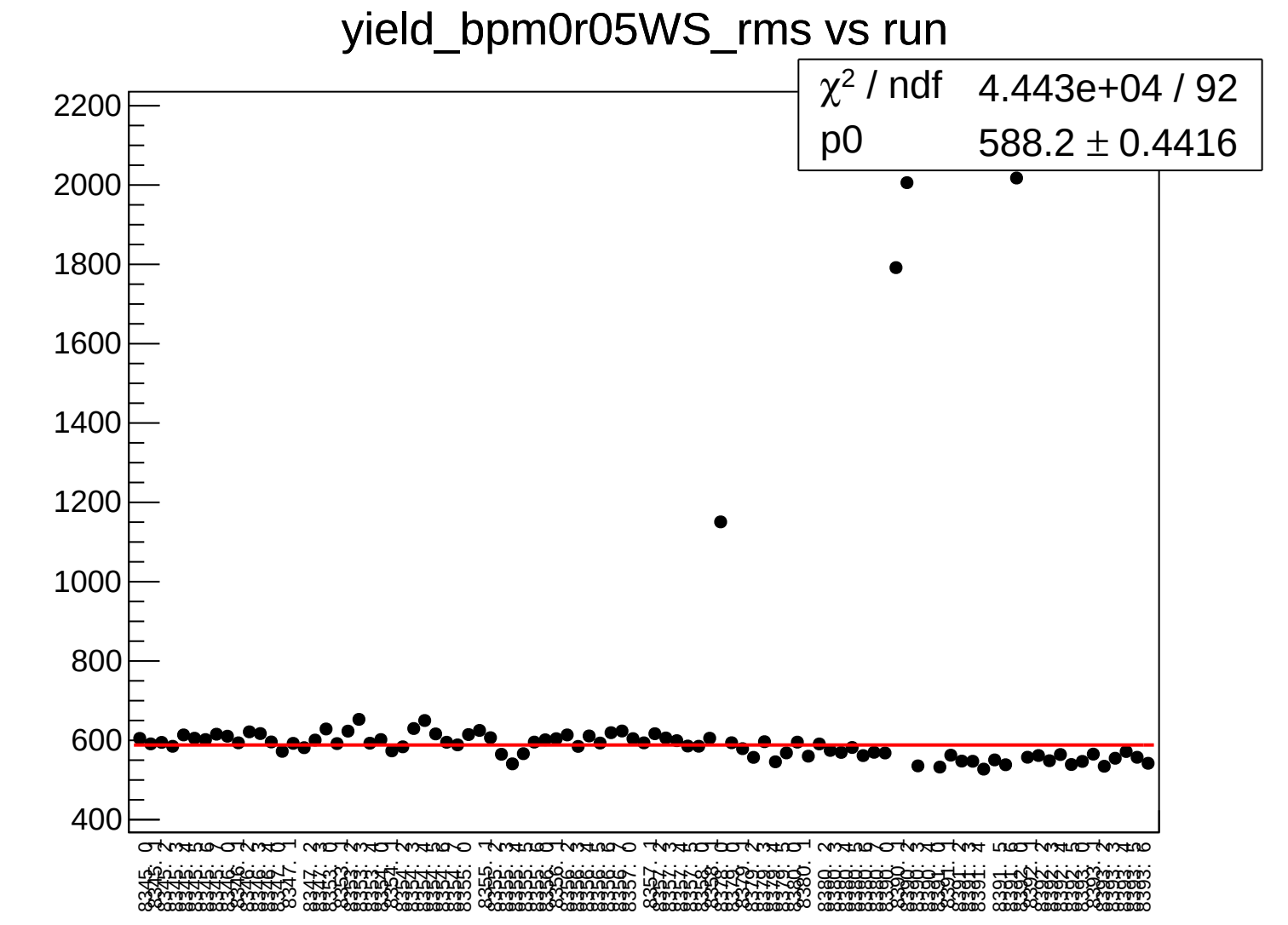

yield_bpm0r03WS_mean vs run
×10^3
χ^2 / ndf 3.449e+05 / 92
p0 1.414e+05 ± 0.4311
142
141.5
141
140.5
140
139.5
pull
Entries 93
Mean 12.04
Std Dev 0
150
100
50
0
−50
−100

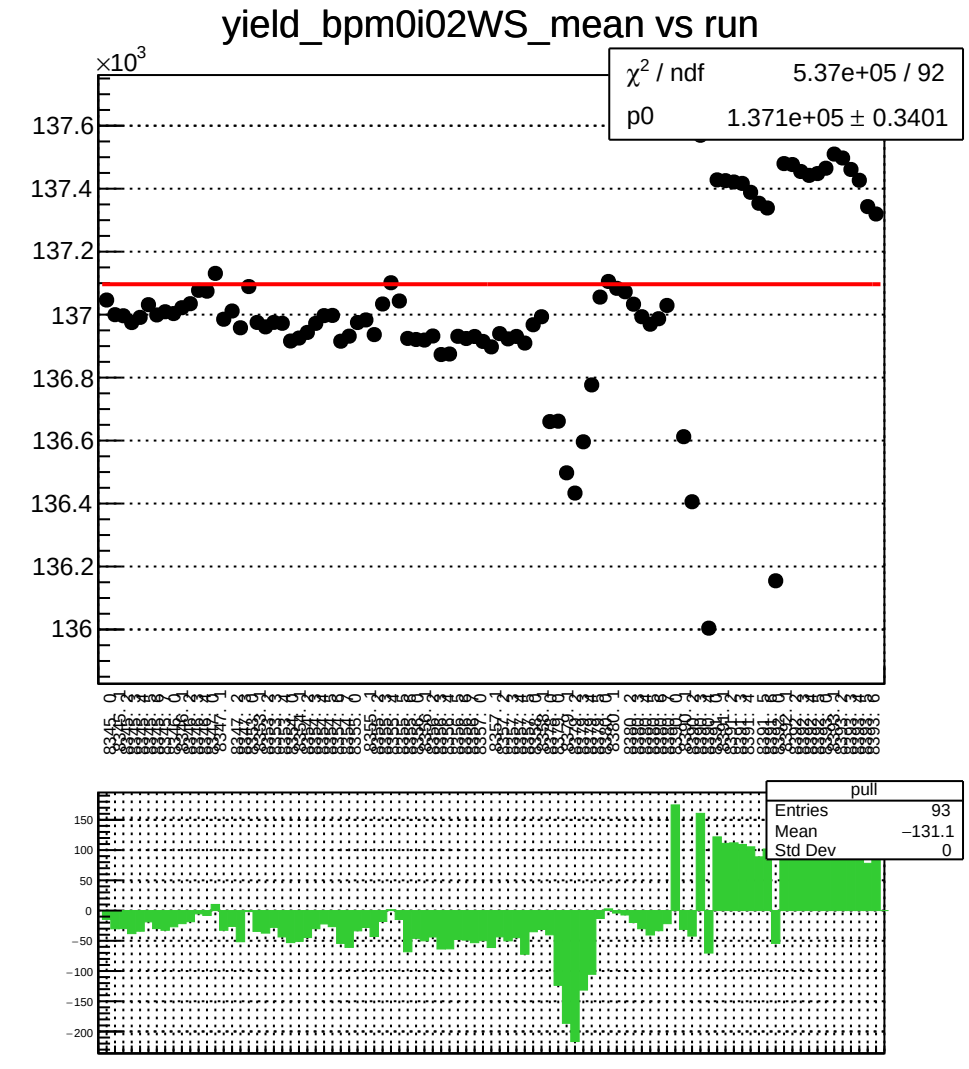

pull1D
Entries 93
Mean −1.414
Std Dev 3.49
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

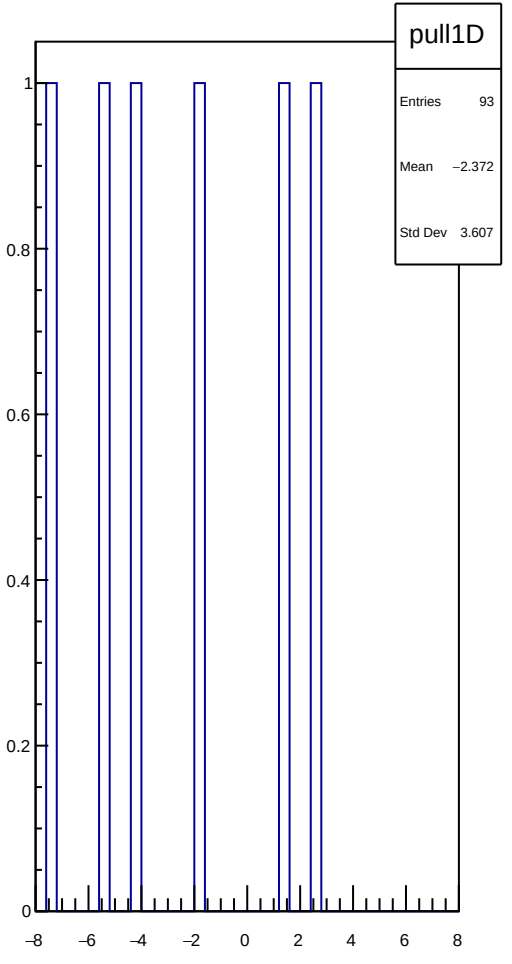

yield_bpm0r03WS_rms vs run
χ² / ndf 2.202e+05 / 92
p0 385.5 ± 0.3049
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

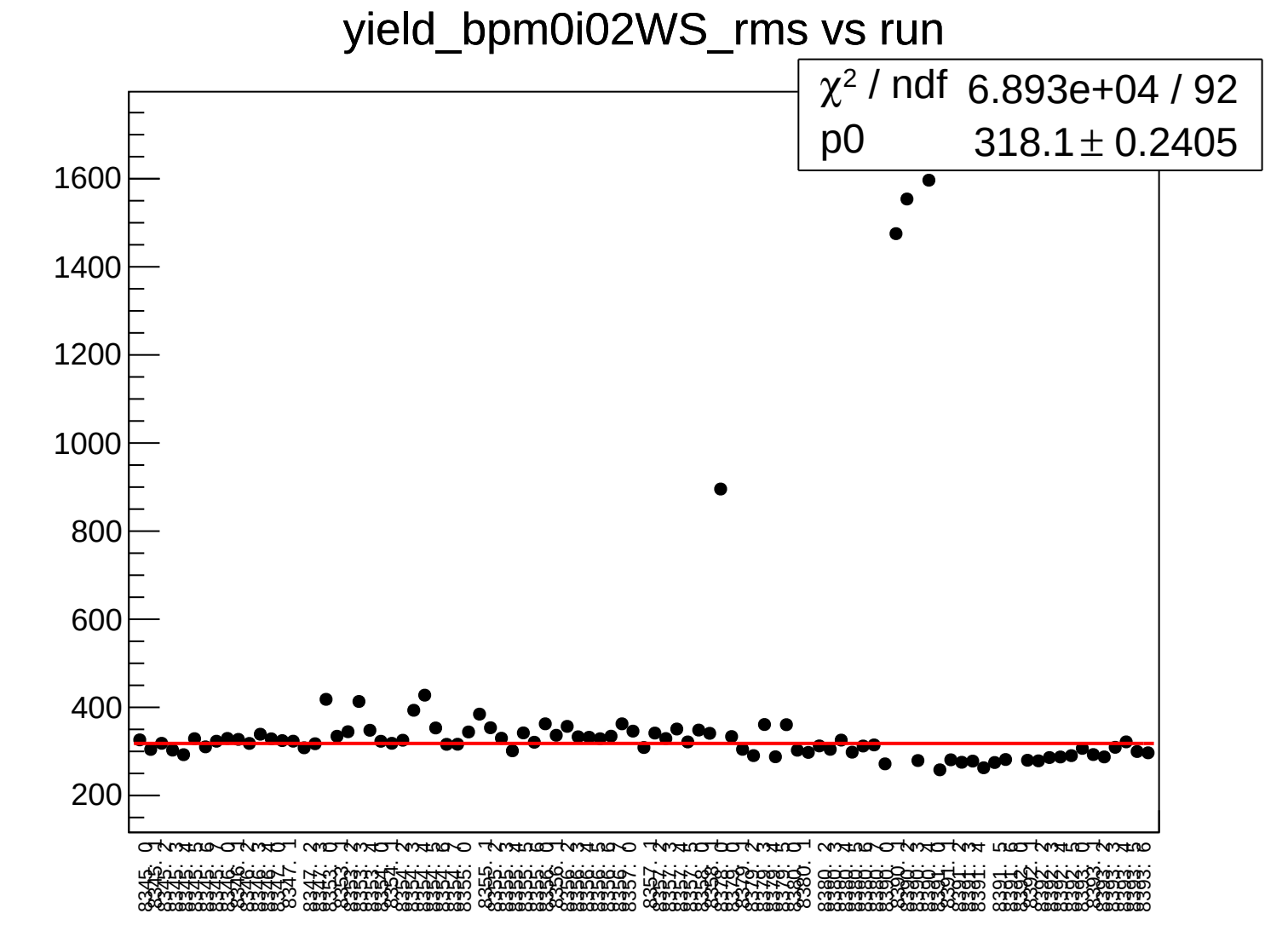

yield_bpm0r05WS_mean vs run
×10^3
χ^2 / ndf 1.273e+06 / 92
p0 1.361e+05 ± 0.6245
137
136.5
136
135.5
135
134.5
134
133.5
pull
Entries 93
Mean 3.608e+04
Std Dev 0
150
100
50
0
−50
−100
−150
−200
−250

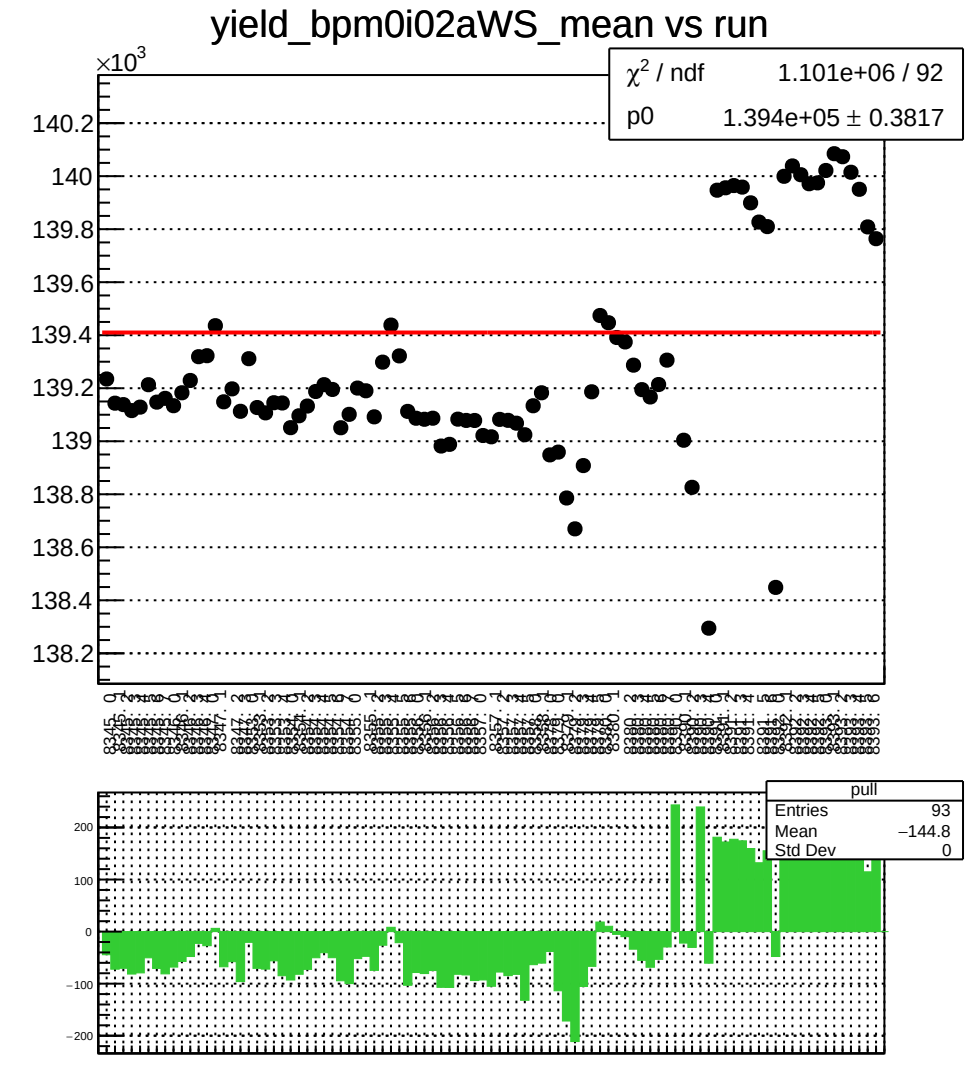

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

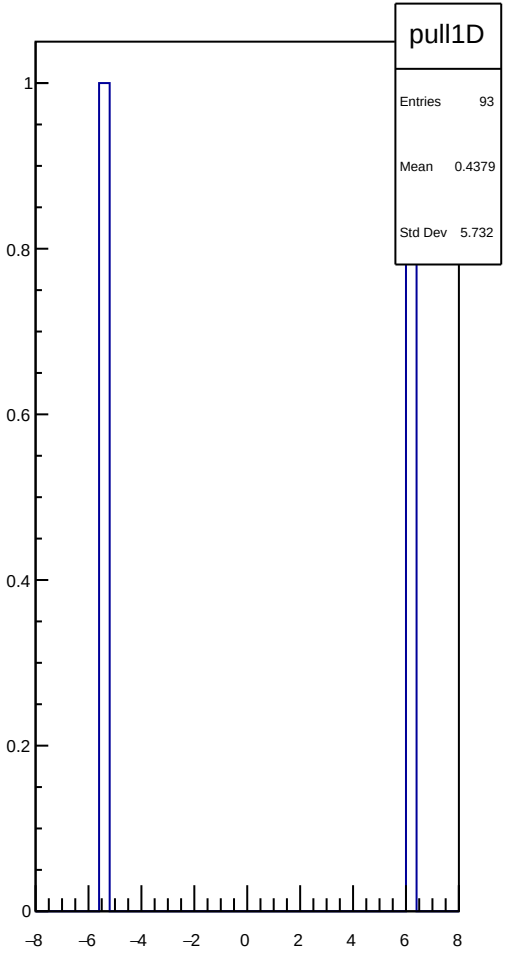

yield_bpm0r05WS_rms vs run
χ² / ndf 4.443e+04 / 92
p0 588.2 ± 0.4416
2200
2000
1800
1600
1400
1200
1000
800
600
400

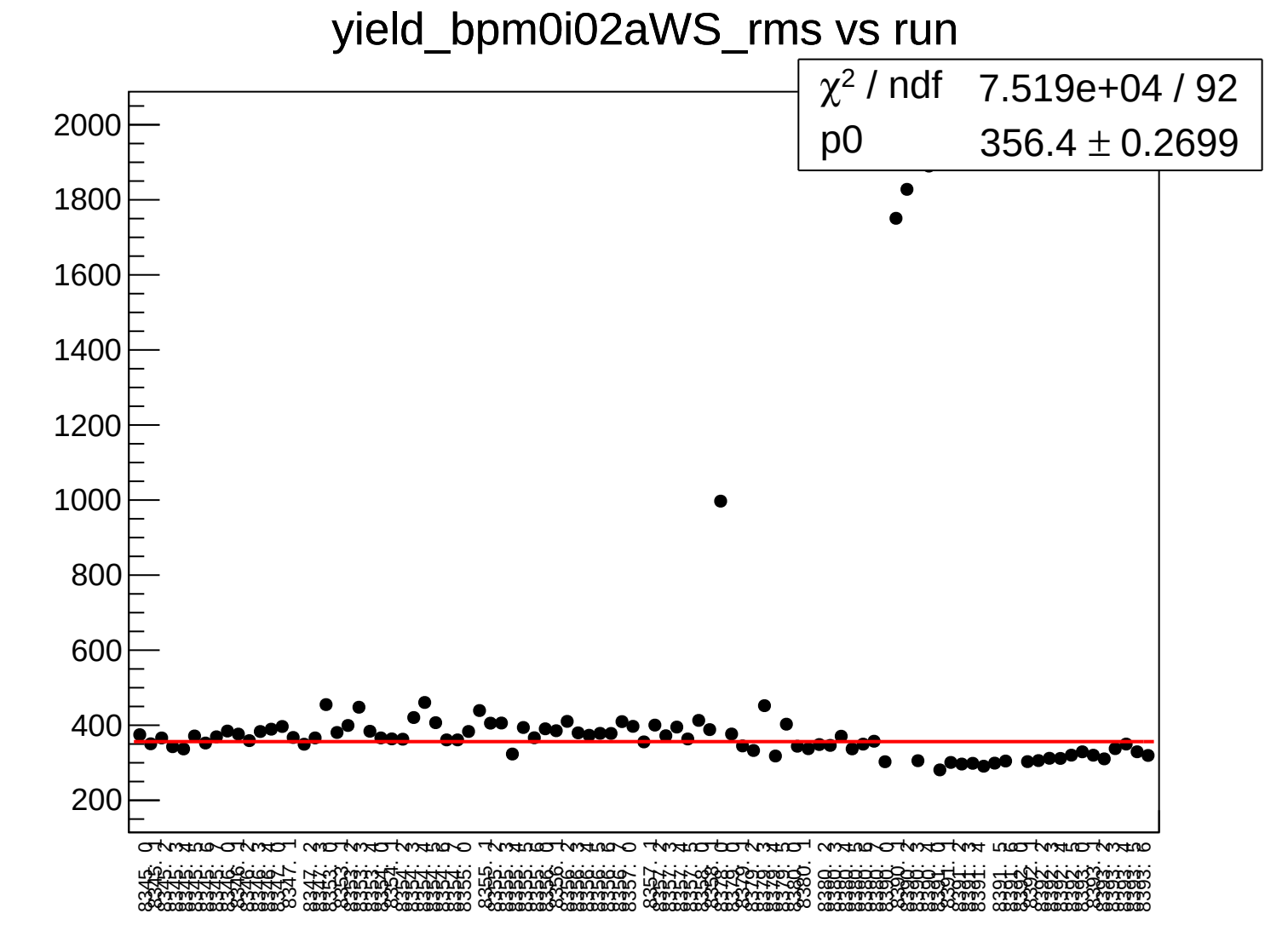

yield_bpm0i02WS_mean vs run
×10^3
χ^2 / ndf 5.37e+05 / 92
p0 1.371e+05 ± 0.3401
137.6
137.4
137.2
137
136.8
136.6
136.4
136.2
136
pull
Entries 93
Mean −131.1
Std Dev 0
150
100
50
0
−50
−100
−150
−200

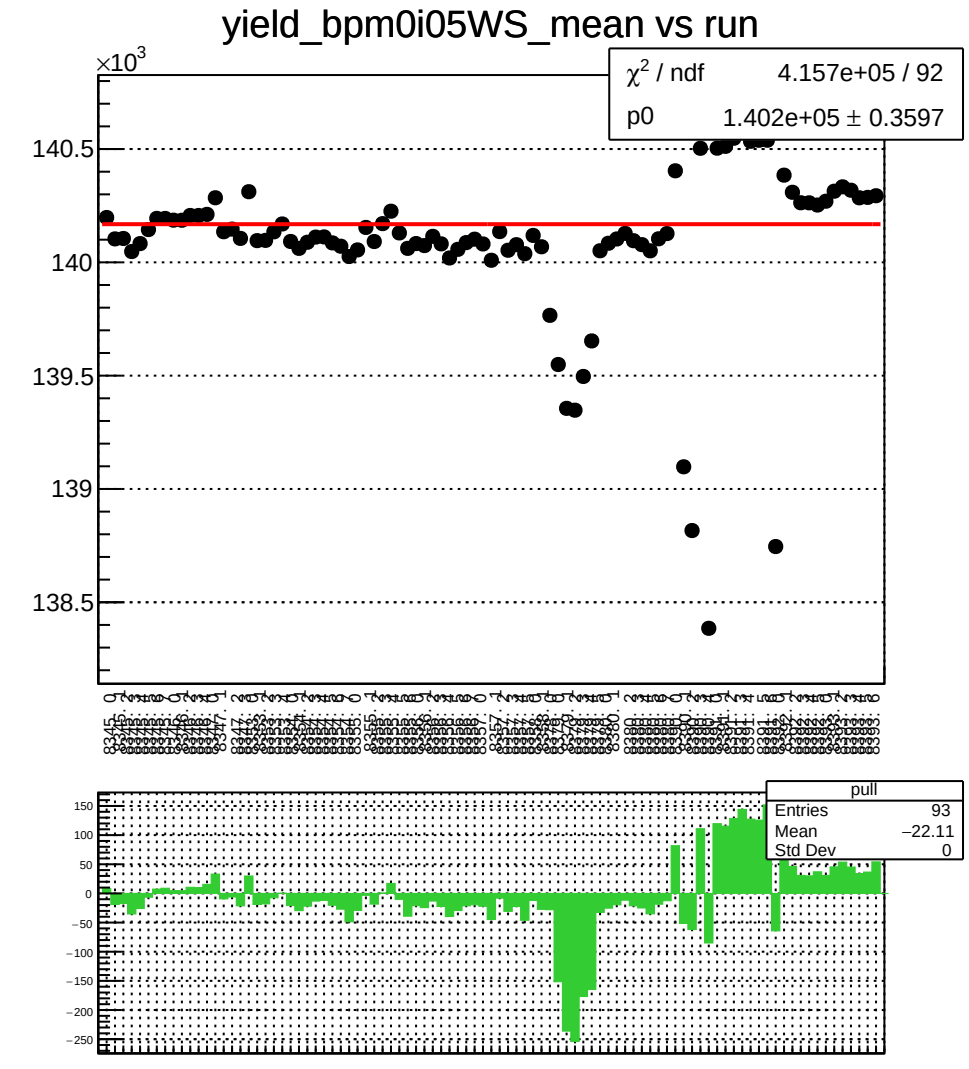

pull1D
Entries 93
Mean −2.372
Std Dev 3.607
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

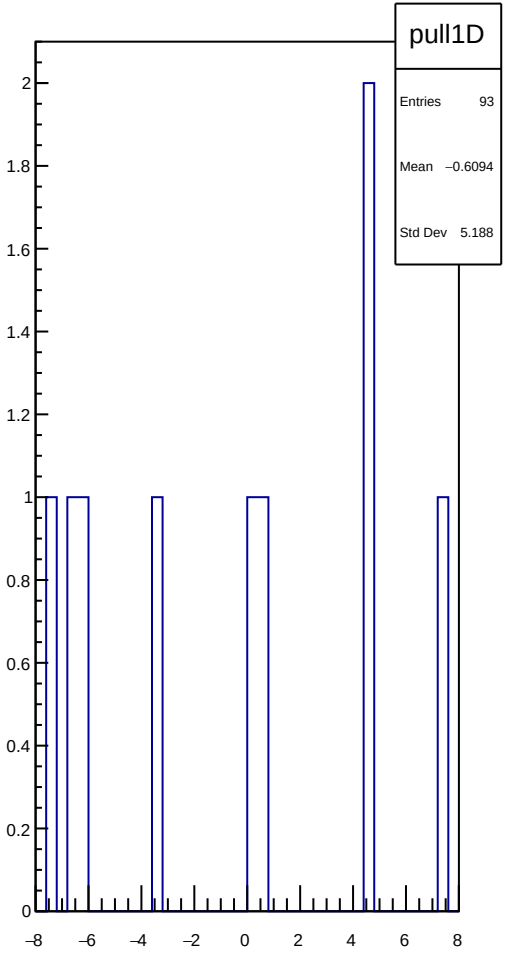

yield_bpm0i02WS_rms vs run
χ² / ndf 6.893e+04 / 92
p0 318.1 ± 0.2405
1600
1400
1200
1000
800
600
400
200

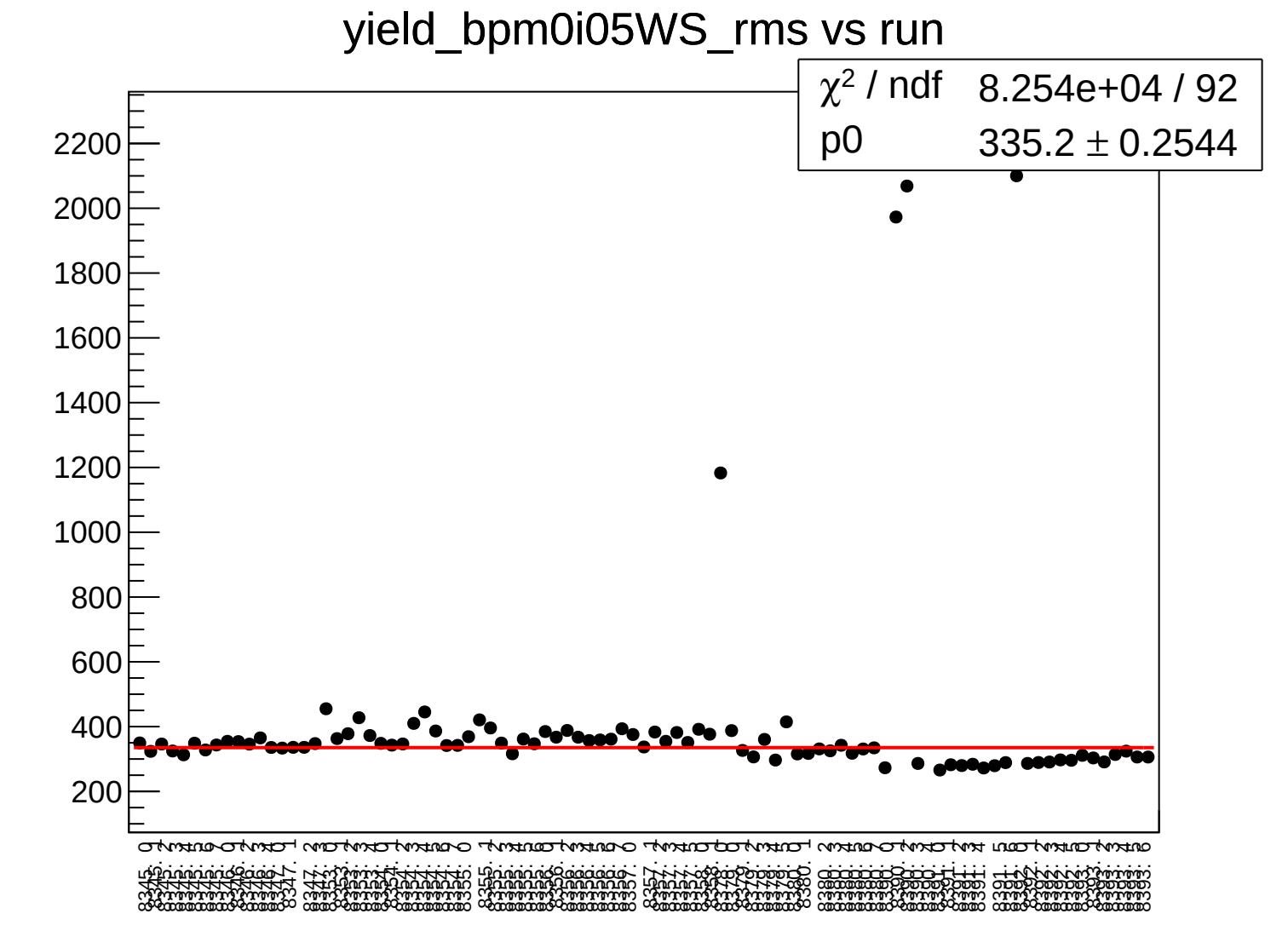

yield_bpm0i02aWS_mean vs run
×10^3
χ^2 / ndf 1.101e+06 / 92
p0 1.394e+05 ± 0.3817
140.2
140
139.8
139.6
139.4
139.2
139
138.8
138.6
138.4
138.2
pull
Entries 93
Mean −144.8
Std Dev 0
200
100
0
−100
−200

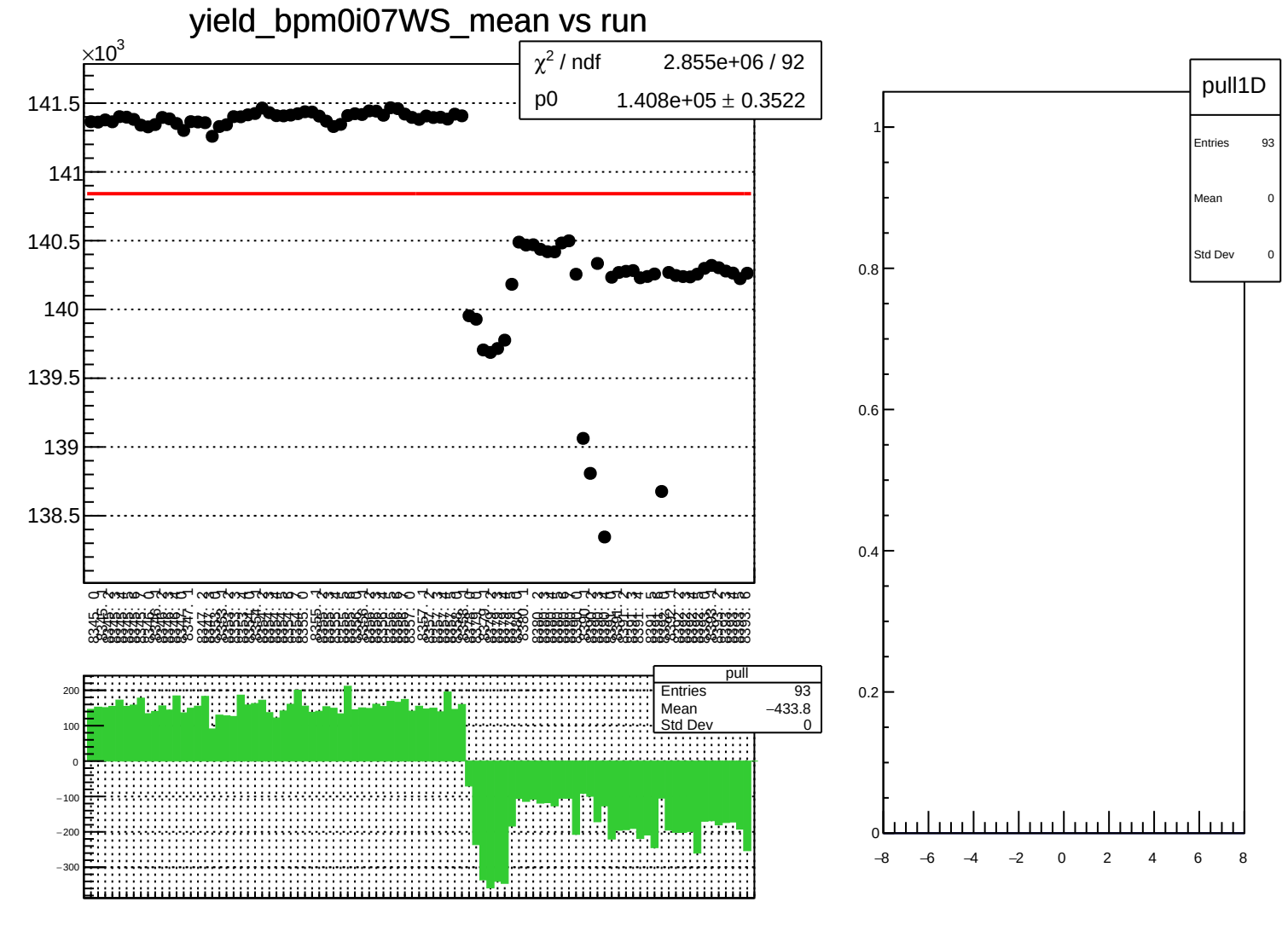

pull1D
Entries 93
Mean 0.4379
Std Dev 5.732
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

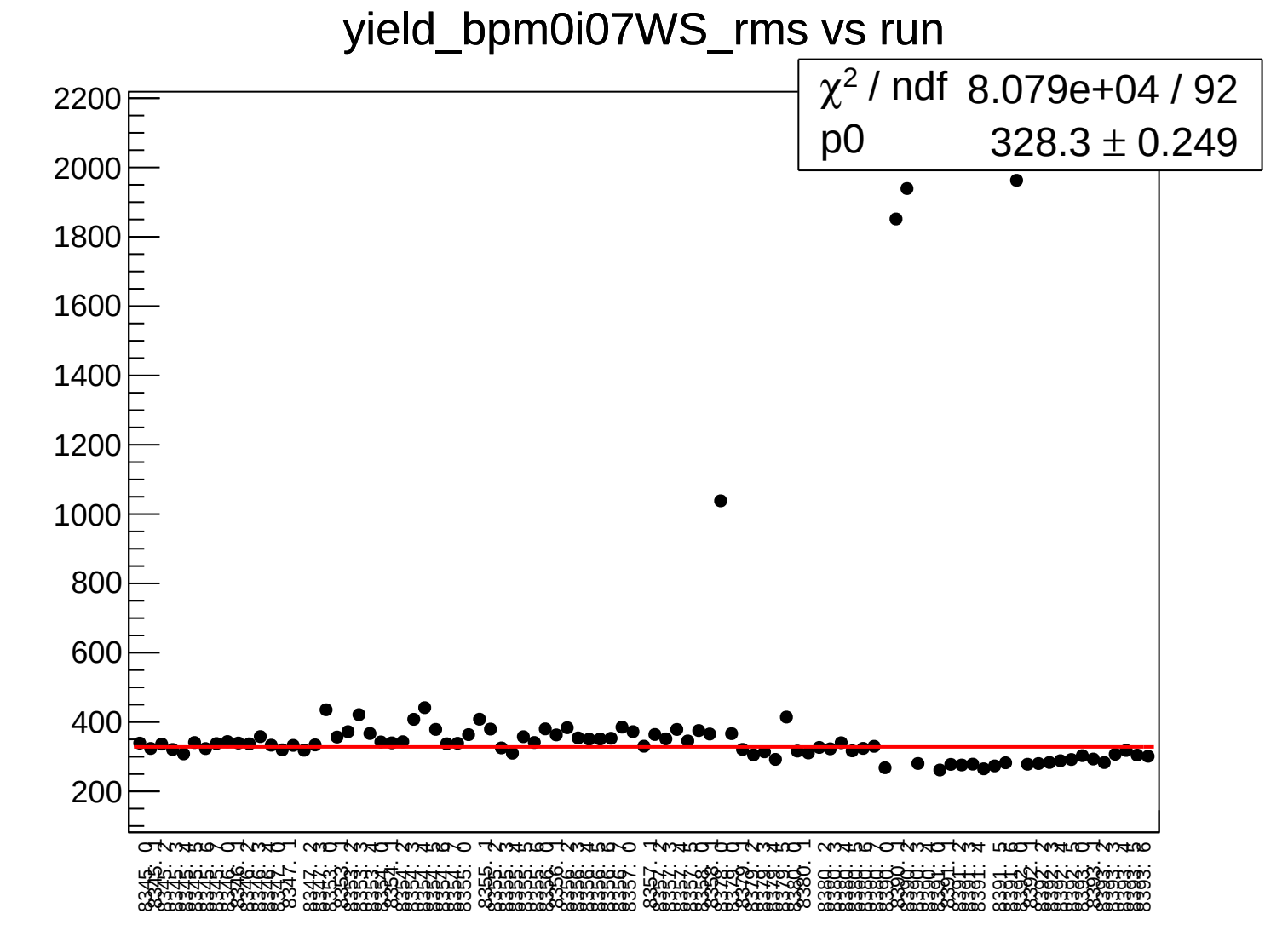

yield_bpm0i02aWS_rms vs run
χ² / ndf 7.519e+04 / 92
p0 356.4 ± 0.2699
2000
1800
1600
1400
1200
1000
800
600
400
200

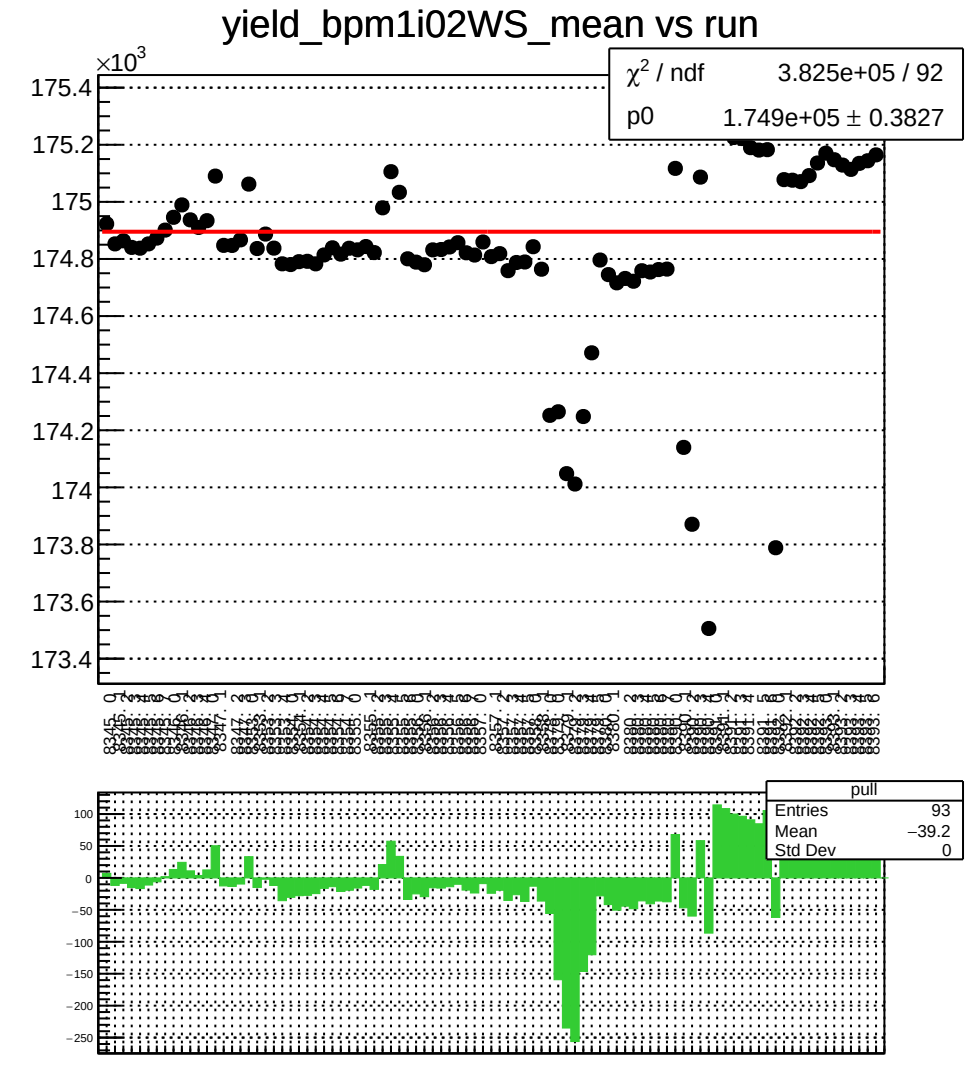

yield_bpm0i05WS_mean vs run
×10^3
χ² / ndf 4.157e+05 / 92
p0 1.402e+05 ± 0.3597
140.5
140
139.5
139
138.5
pull
Entries 93
Mean −22.11
Std Dev 0
150
100
50
0
−50
−100
−150
−200
−250

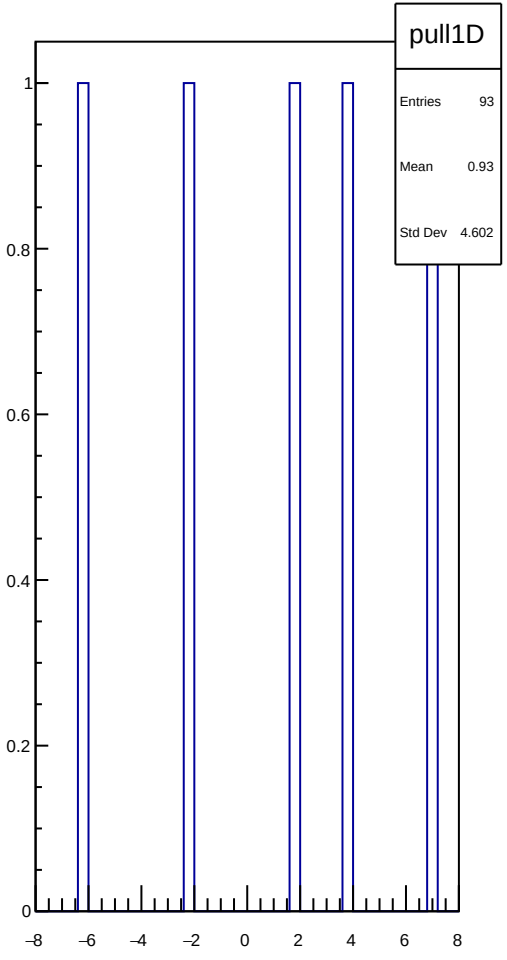

pull1D
Entries 93
Mean −0.6094
Std Dev 5.188
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

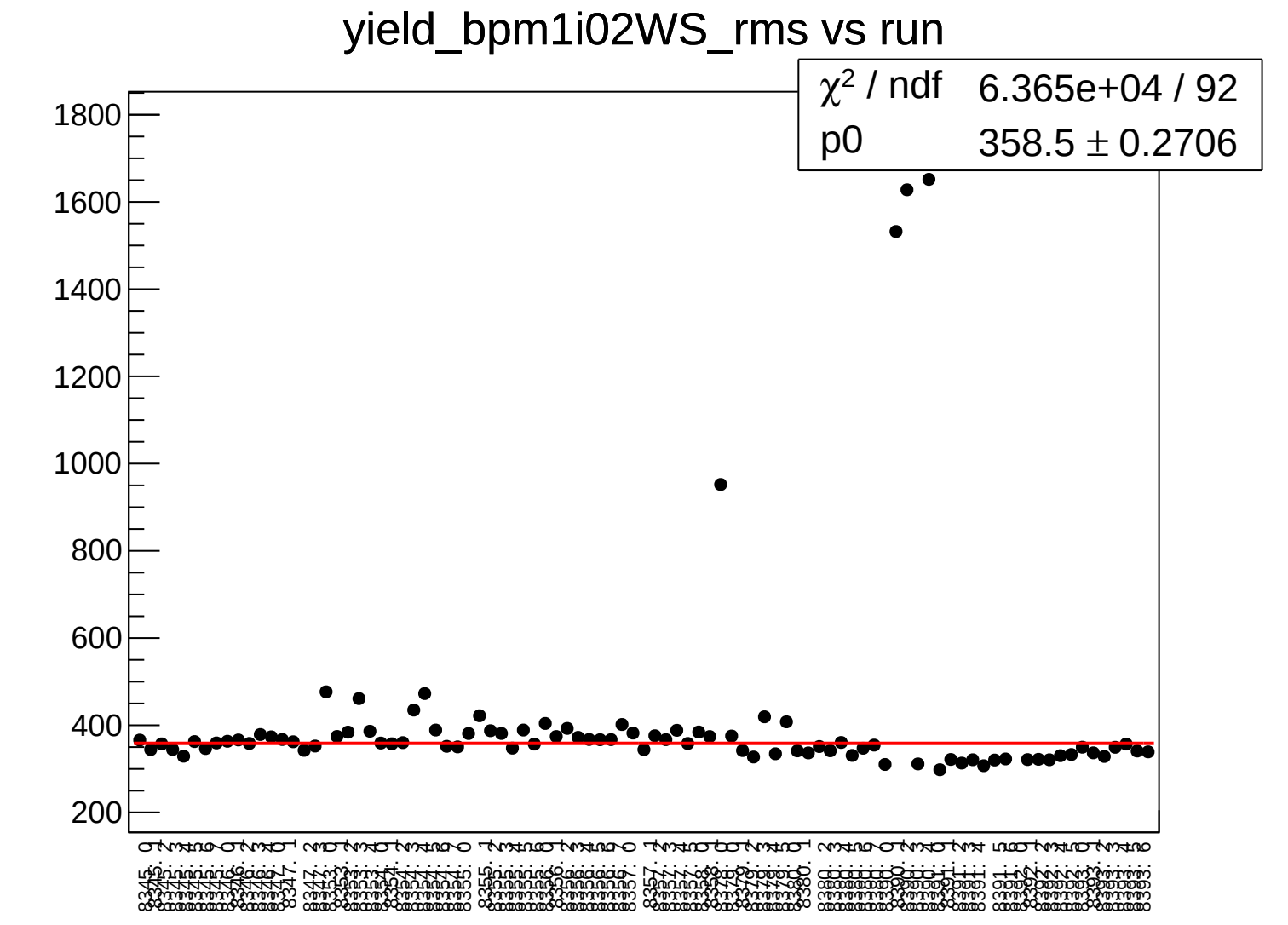

yield_bpm0i05WS_rms vs run
χ² / ndf 8.254e+04 / 92
p0 335.2 ± 0.2544
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

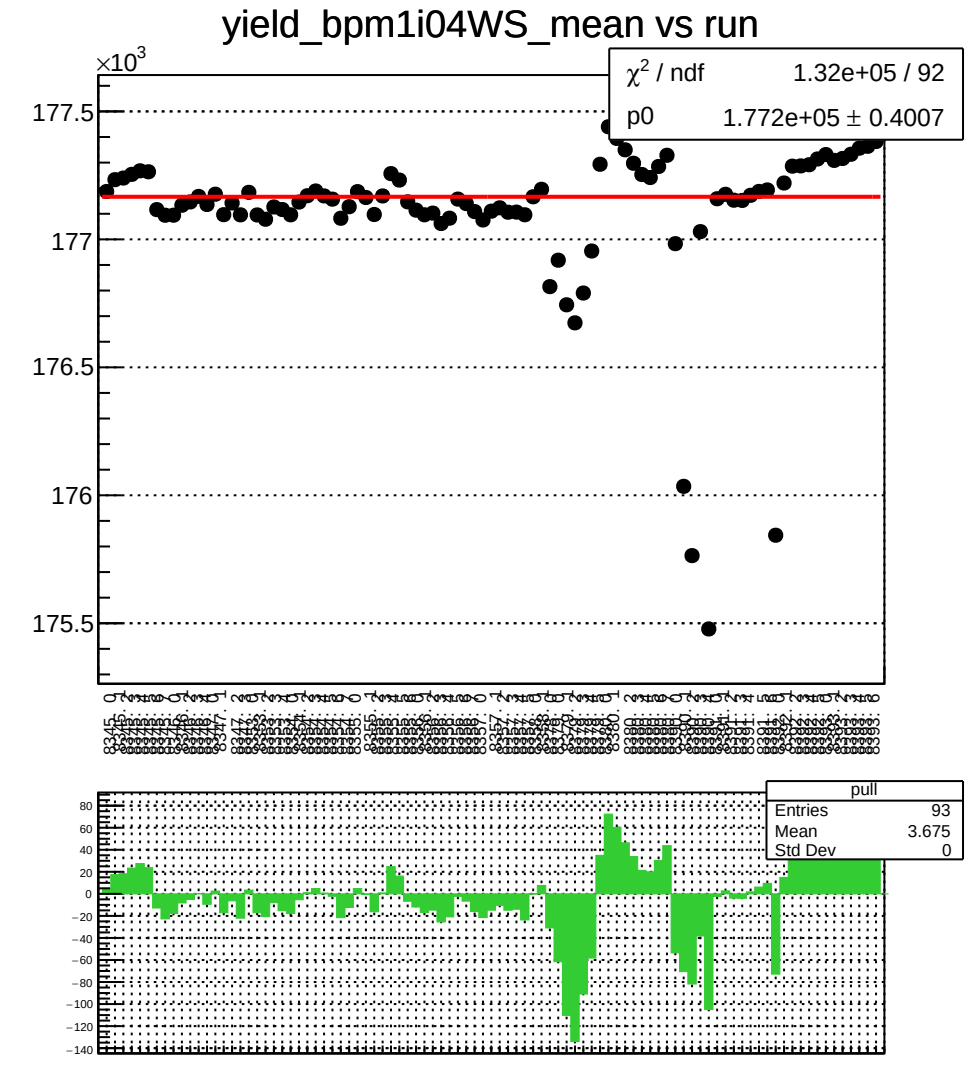

yield_bpm0i07WS_mean vs run
×10^3
χ^2 / ndf 2.855e+06 / 92
p0 1.408e+05 ± 0.3522
141.5
141
140.5
140
139.5
139
138.5
pull
Entries 93
Mean −433.8
Std Dev 0
200
100
0
−100
−200
−300
pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

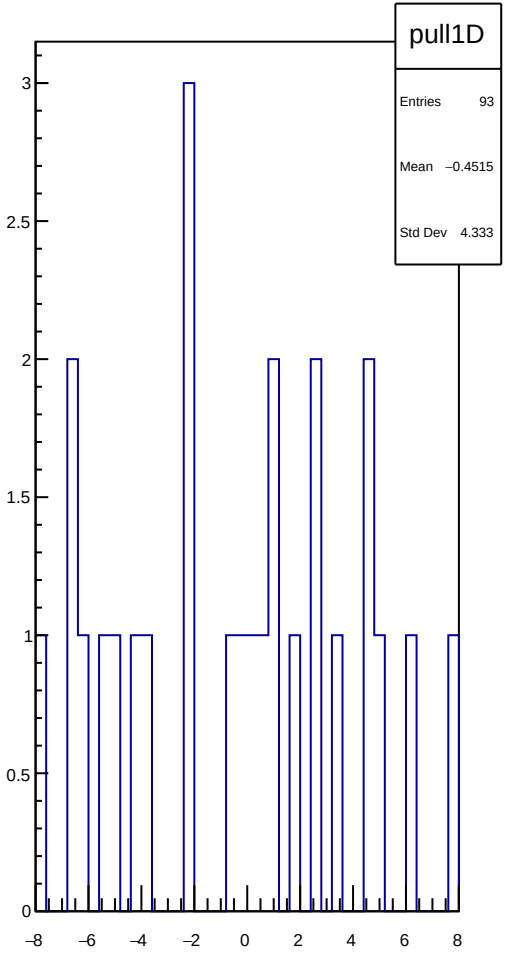

yield_bpm0i07WS_rms vs run
χ² / ndf 8.079e+04 / 92
p0 328.3 ± 0.249
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

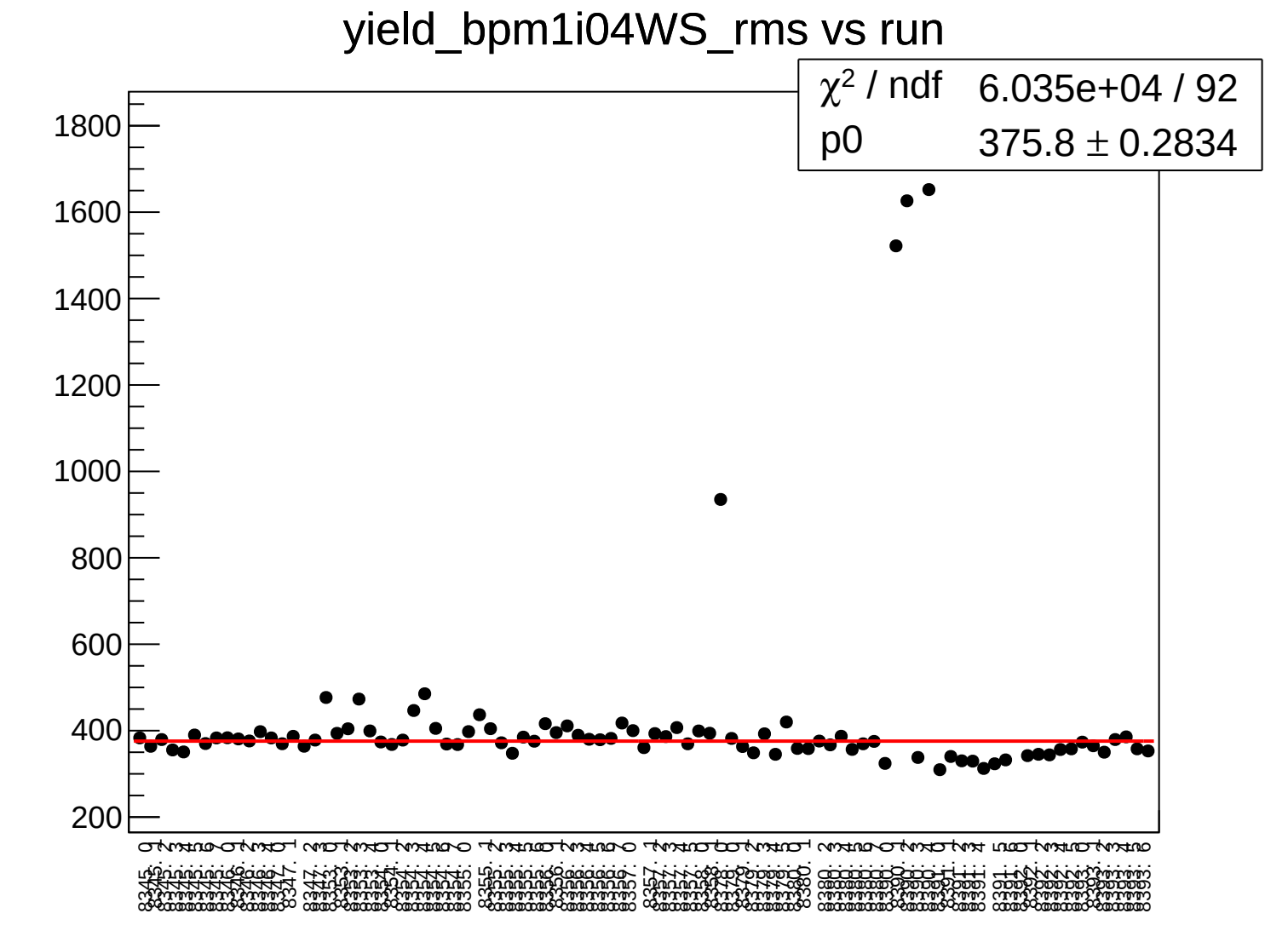

yield_bpm1i02WS_mean vs run
×10^3
χ^2 / ndf 3.825e+05 / 92
p0 1.749e+05 ± 0.3827
175.4
175.2
175
174.8
174.6
174.4
174.2
174
173.8
173.6
173.4
pull
Entries 93
Mean −39.2
Std Dev 0
100
50
0
−50
−100
−150
−200
−250

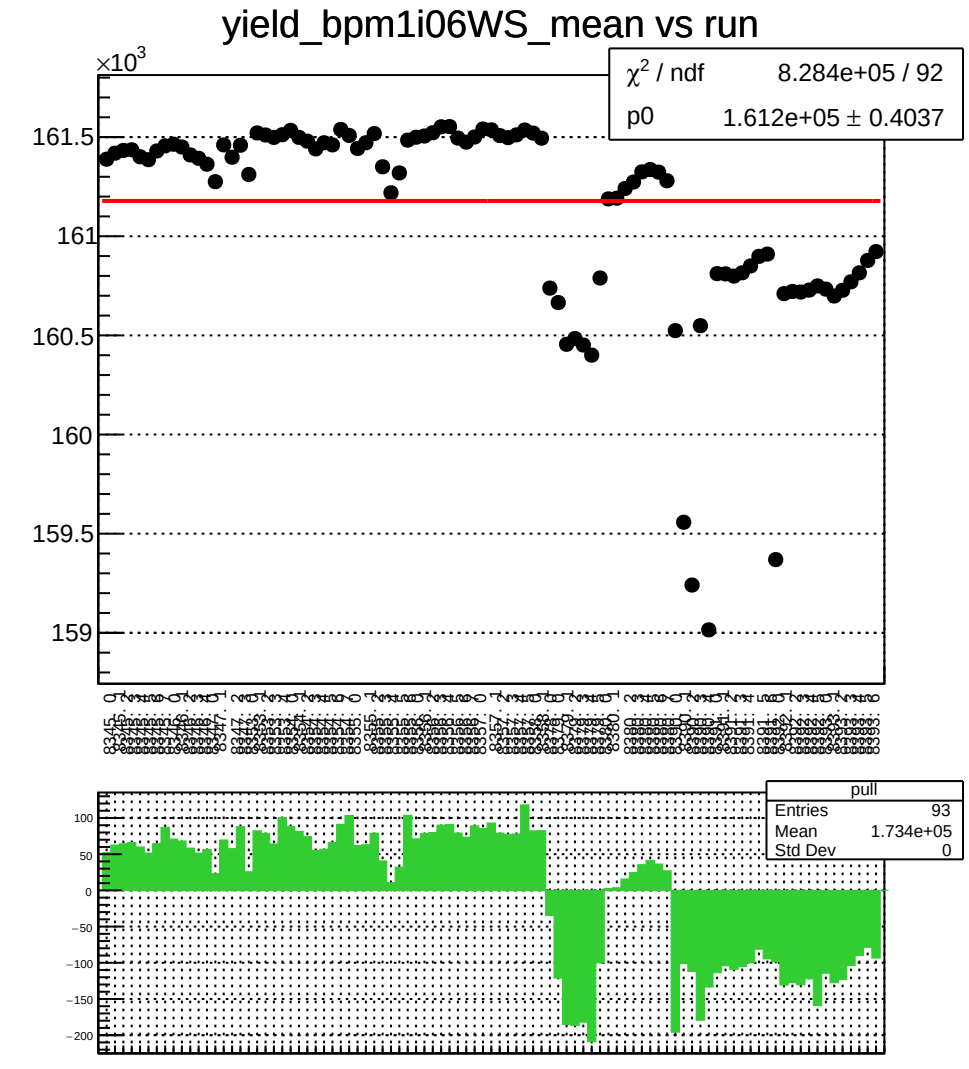

pull1D
Entries 93
Mean 0.93
Std Dev 4.602
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

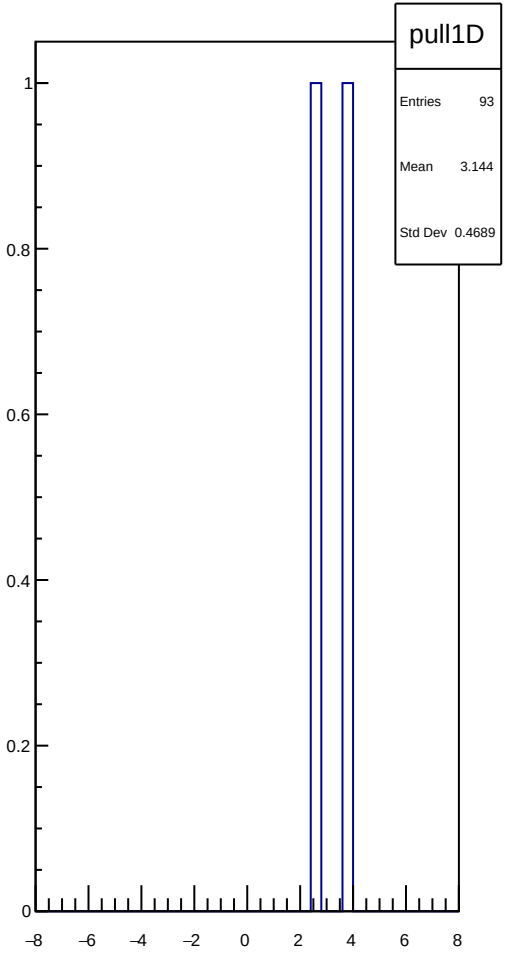

yield_bpm1i02WS_rms vs run
χ² / ndf 6.365e+04 / 92
p0 358.5 ± 0.2706
1800
1600
1400
1200
1000
800
600
400
200

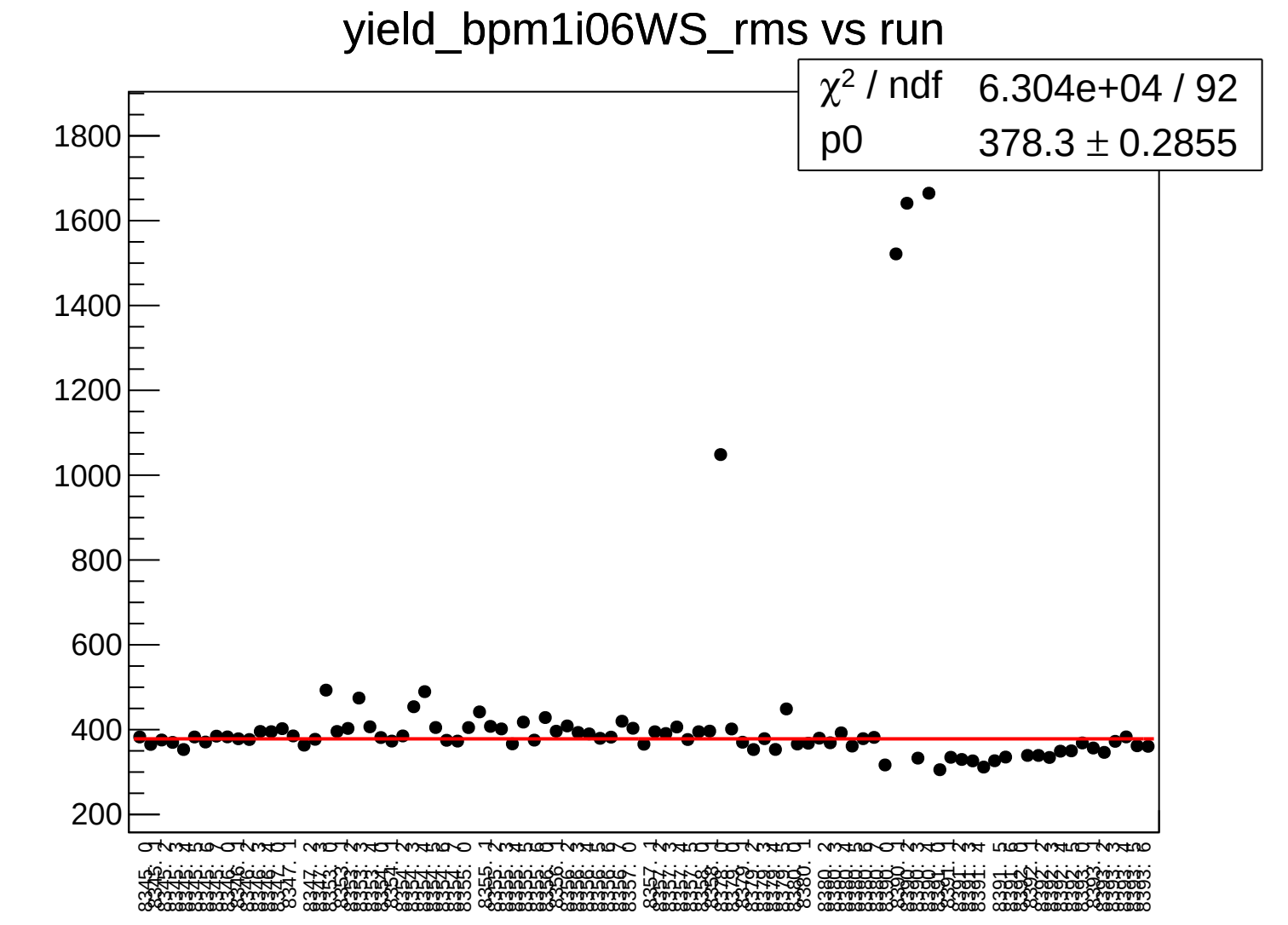

yield_bpm1i04WS_mean vs run
×10^3
χ² / ndf 1.32e+05 / 92
p0 1.772e+05 ± 0.4007
177.5
177
176.5
176
175.5
pull
Entries 93
Mean 3.675
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100
−120
−140

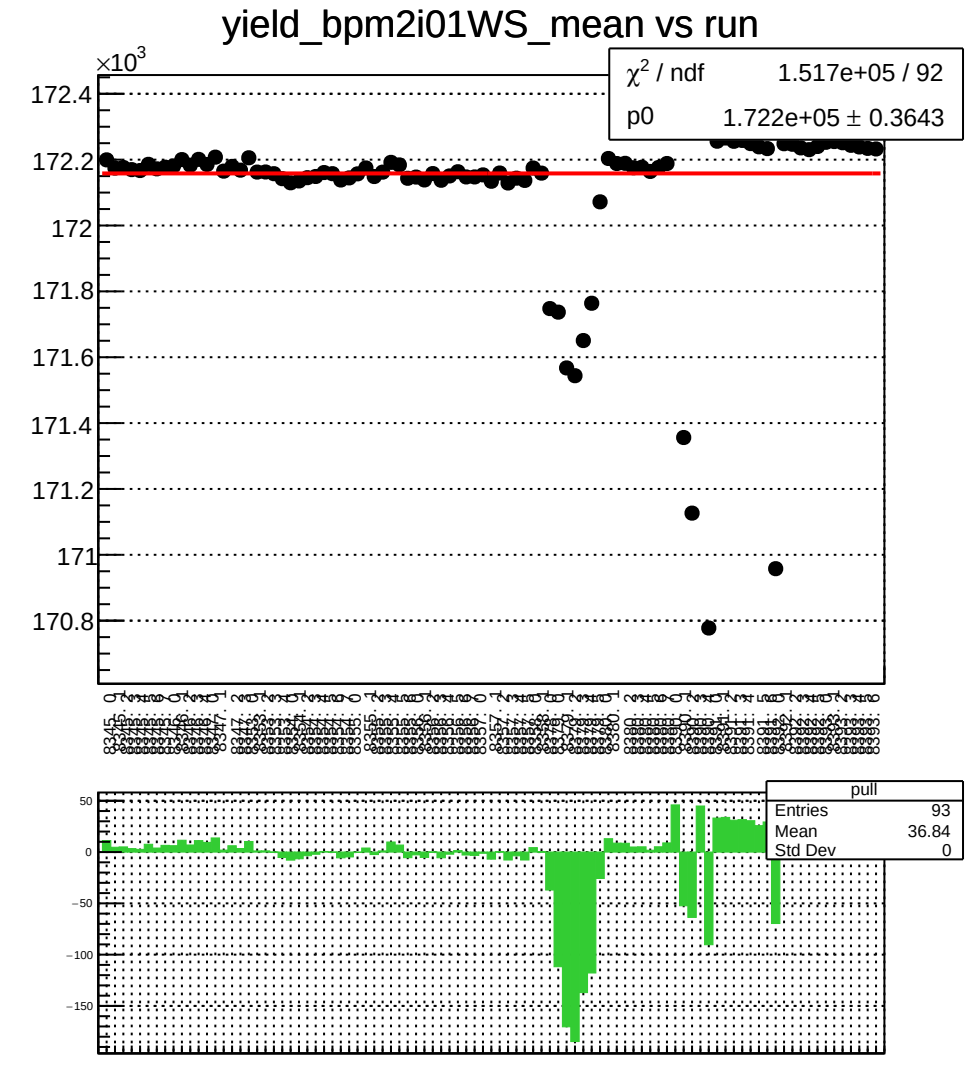

pull1D
Entries 93
Mean −0.4515
Std Dev 4.333
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

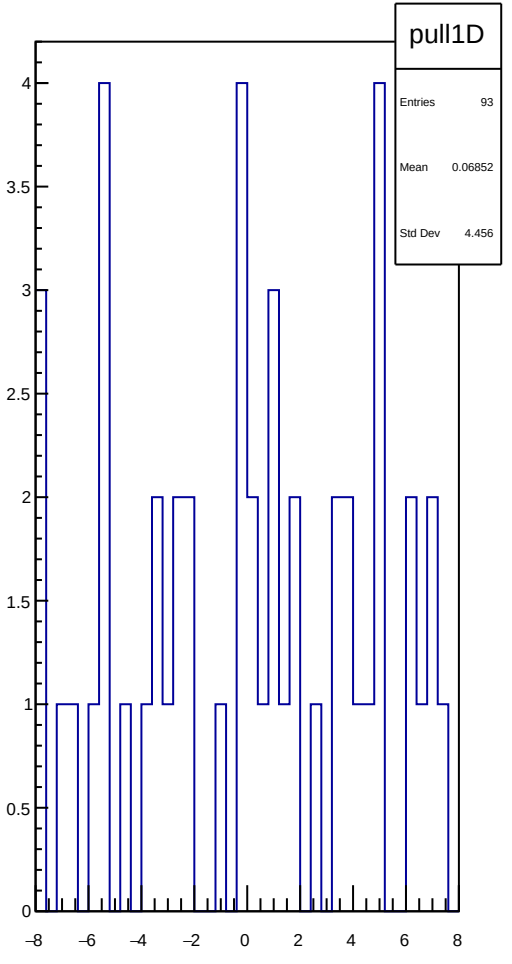

yield_bpm1i04WS_rms vs run
χ² / ndf 6.035e+04 / 92
p0 375.8 ± 0.2834
1800
1600
1400
1200
1000
800
600
400
200

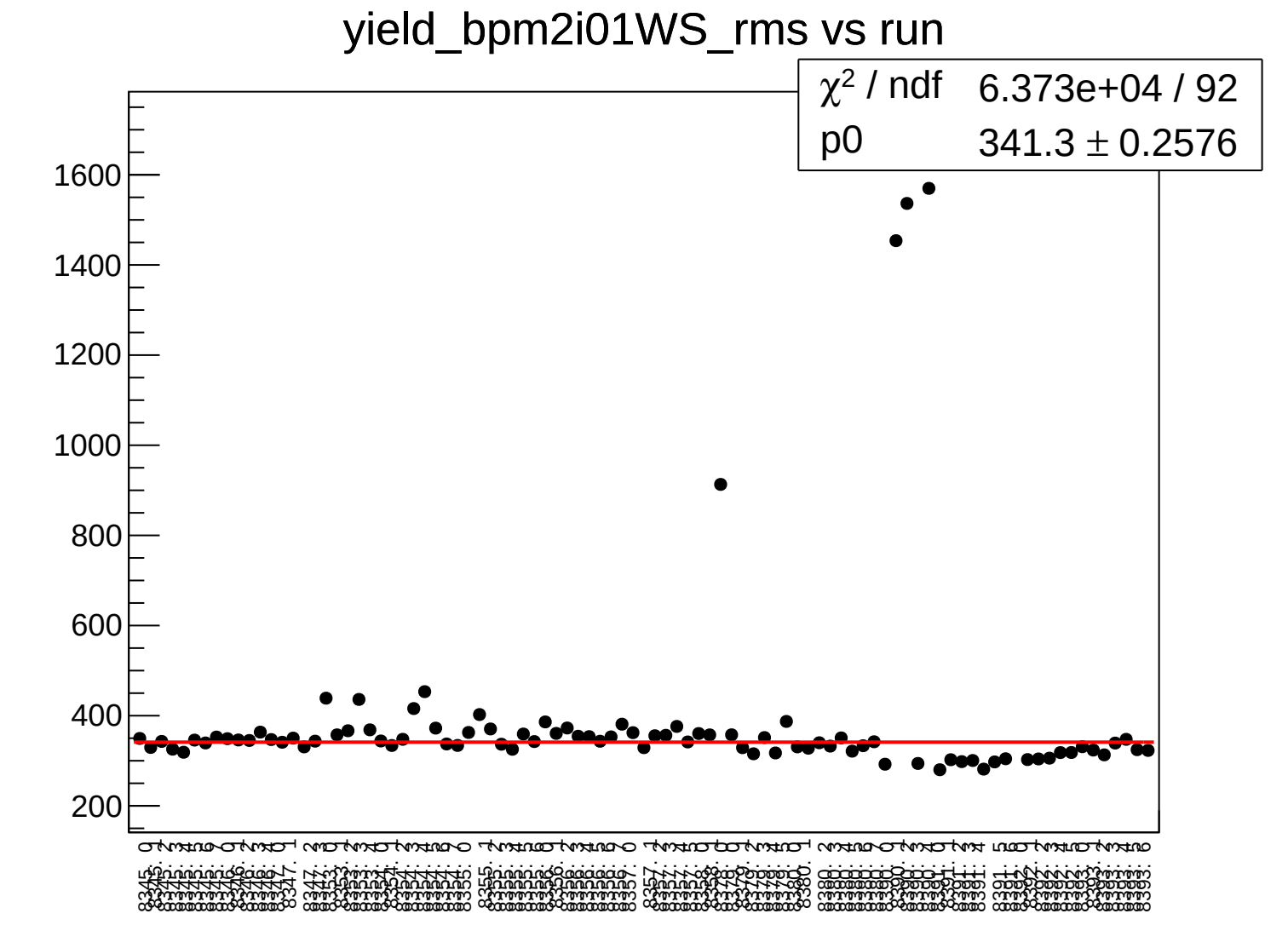

yield_bpm1i06WS_mean vs run
×10^3
χ² / ndf 8.284e+05 / 92
p0 1.612e+05 ± 0.4037
161.5
161
160.5
160
159.5
159
pull
Entries 93
Mean 1.734e+05
Std Dev 0
100
50
0
−50
−100
−150
−200

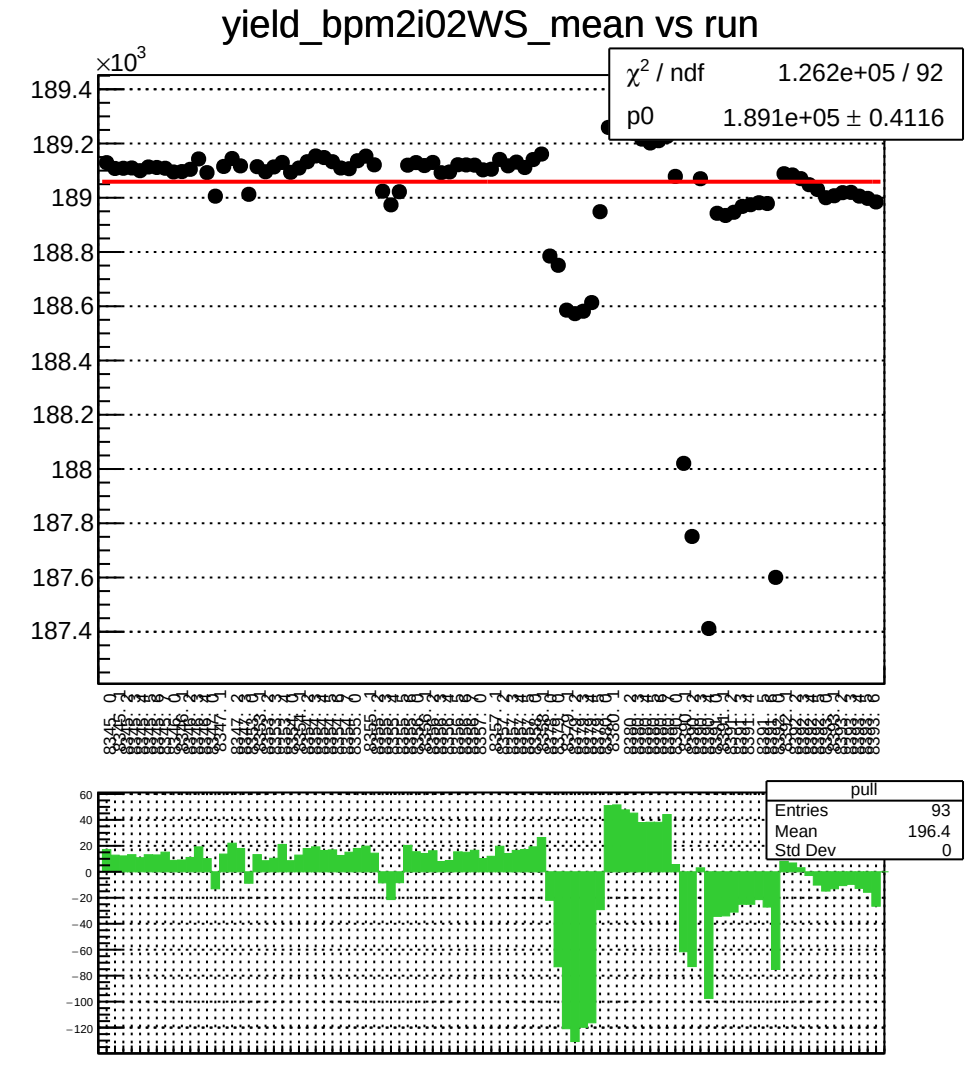

pull1D
Entries 93
Mean 3.144
Std Dev 0.4689
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

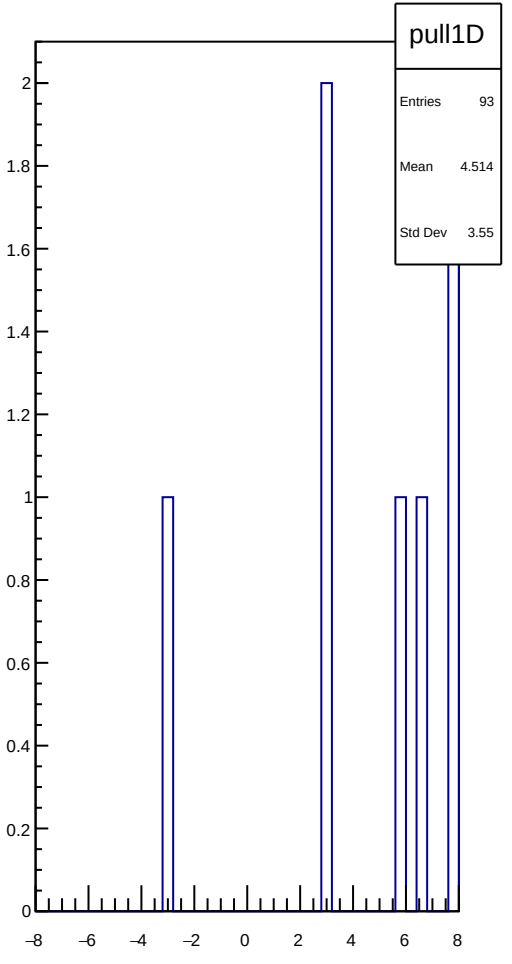

yield_bpm1i06WS_rms vs run
χ² / ndf 6.304e+04 / 92
p0 378.3 ± 0.2855
1800
1600
1400
1200
1000
800
600
400
200

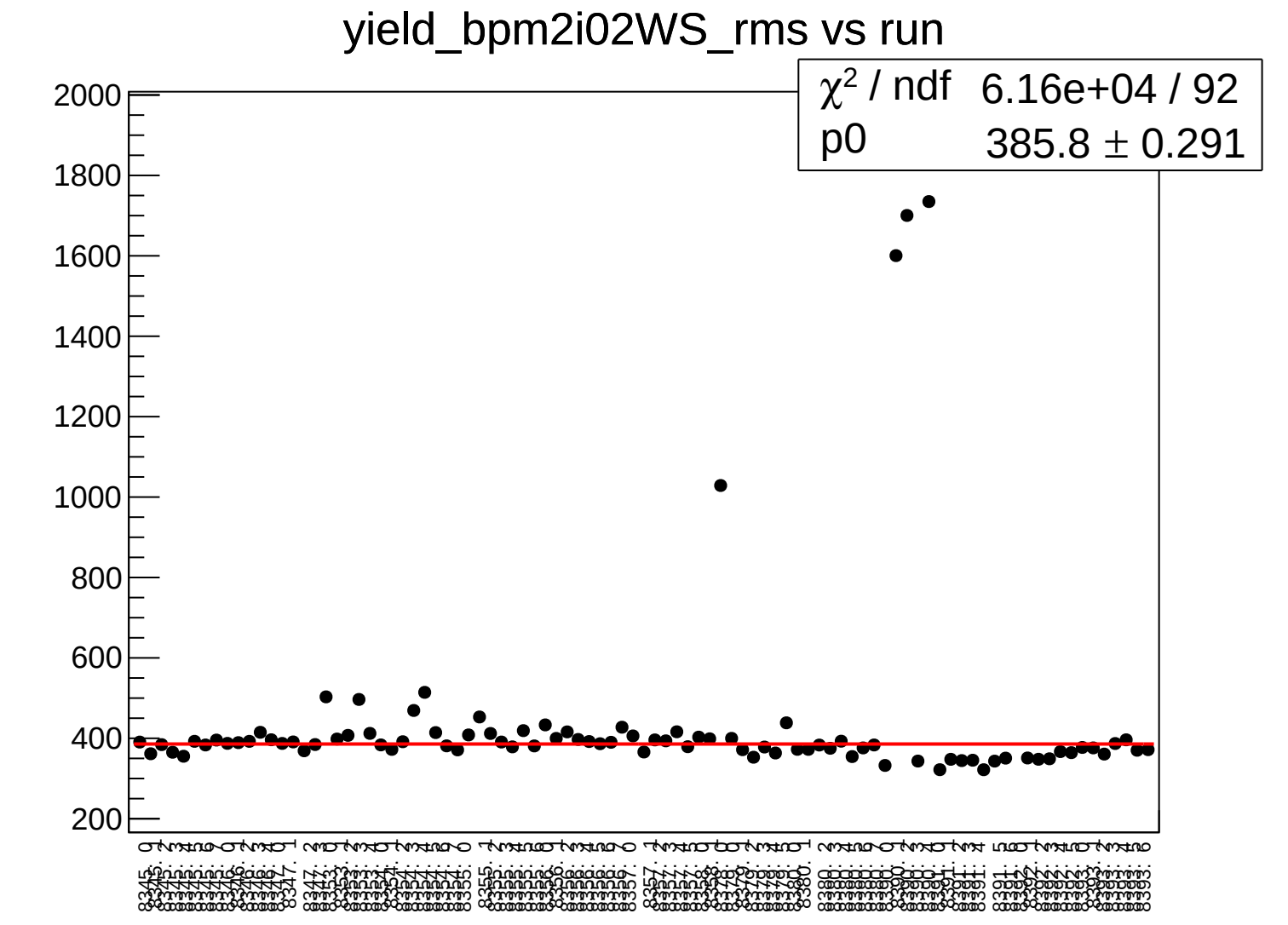

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 1.517e+05 / 92
p0 1.722e+05 ± 0.3643
172.4
172.2
172
171.8
171.6
171.4
171.2
171
170.8
pull
Entries 93
Mean 36.84
Std Dev 0
50
0
−50
−100
−150

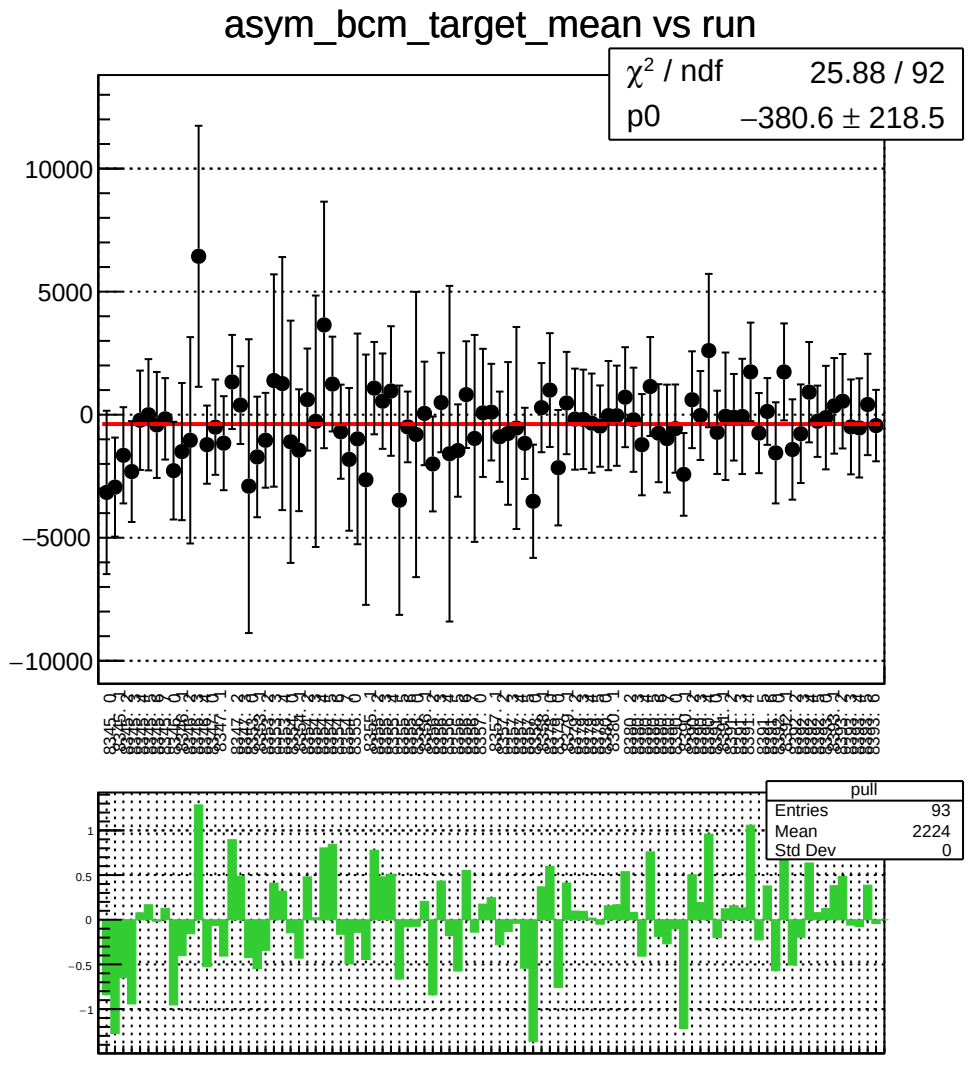

pull1D
Entries 93
Mean 0.06852
Std Dev 4.456
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

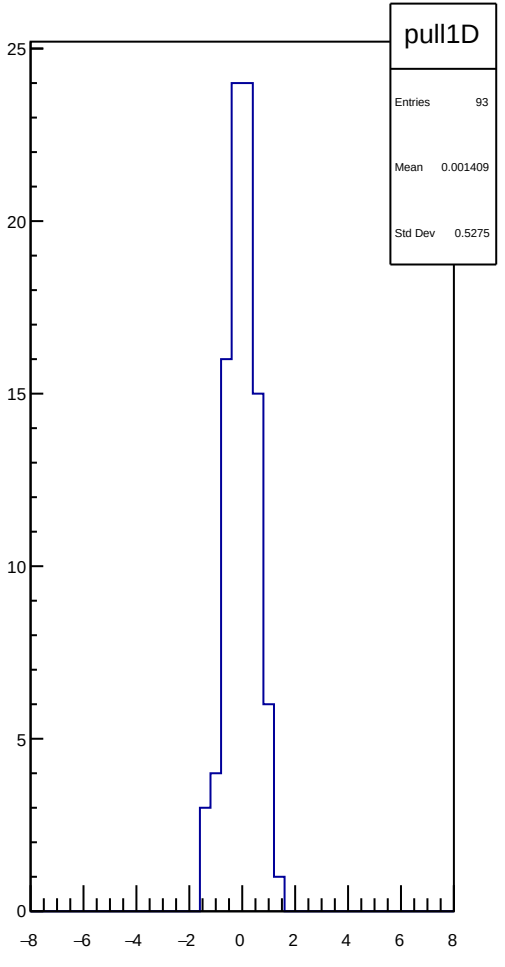

yield_bpm2i01WS_rms vs run
χ² / ndf 6.373e+04 / 92
p0 341.3 ± 0.2576
1600
1400
1200
1000
800
600
400
200

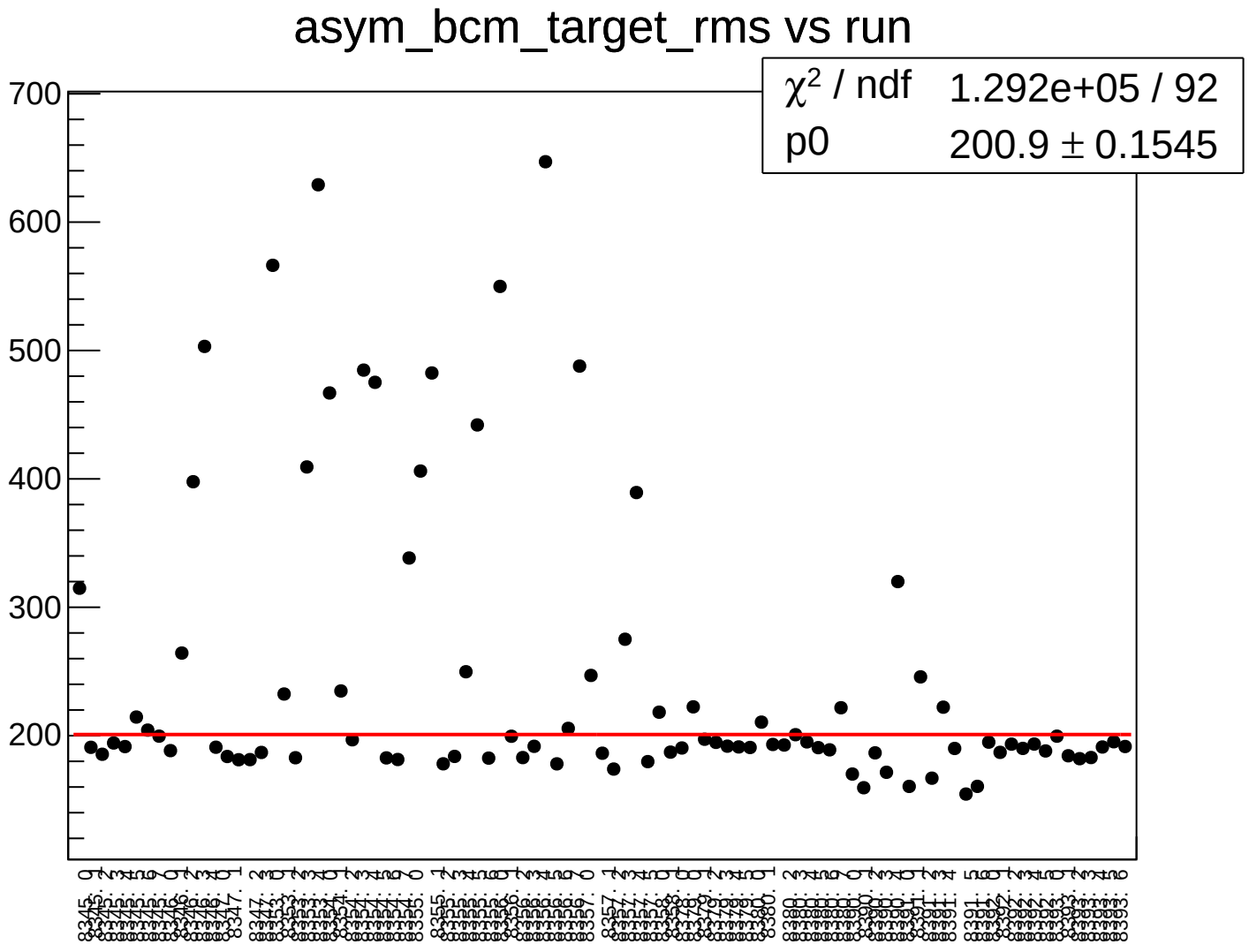

yield_bpm2i02WS_mean vs run
×10^3
χ^2 / ndf 1.262e+05 / 92
p0 1.891e+05 ± 0.4116
189.4
189.2
189
188.8
188.6
188.4
188.2
188
187.8
187.6
187.4
pull
Entries 93
Mean 196.4
Std Dev 0
60
40
20
0
−20
−40
−60
−80
−100
−120

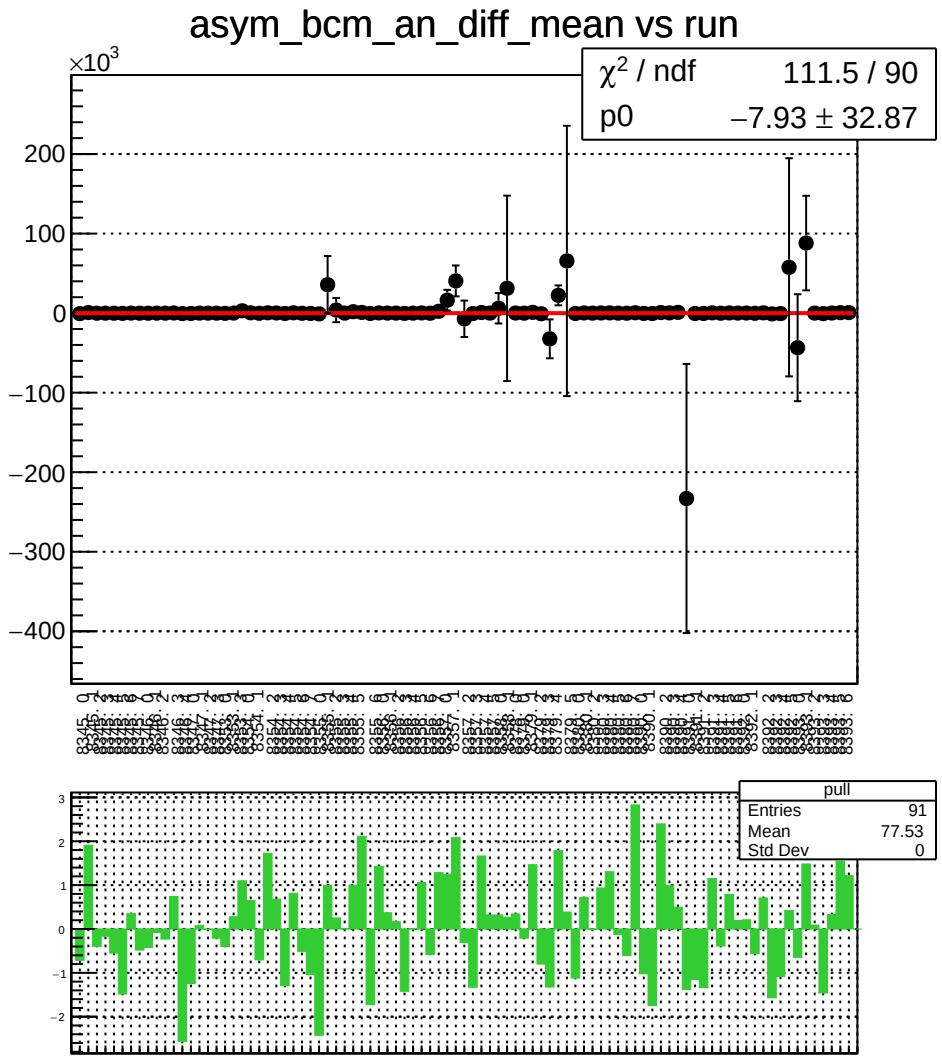

pull1D
Entries 93
Mean 4.514
Std Dev 3.55
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

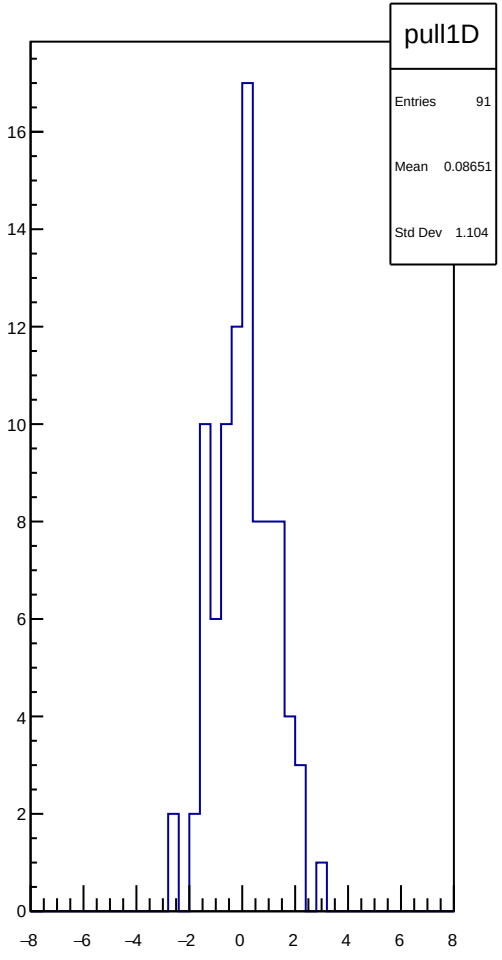

yield_bpm2i02WS_rms vs run
χ² / ndf 6.16e+04 / 92
p0 385.8 ± 0.291
2000
1800
1600
1400
1200
1000
800
600
400
200

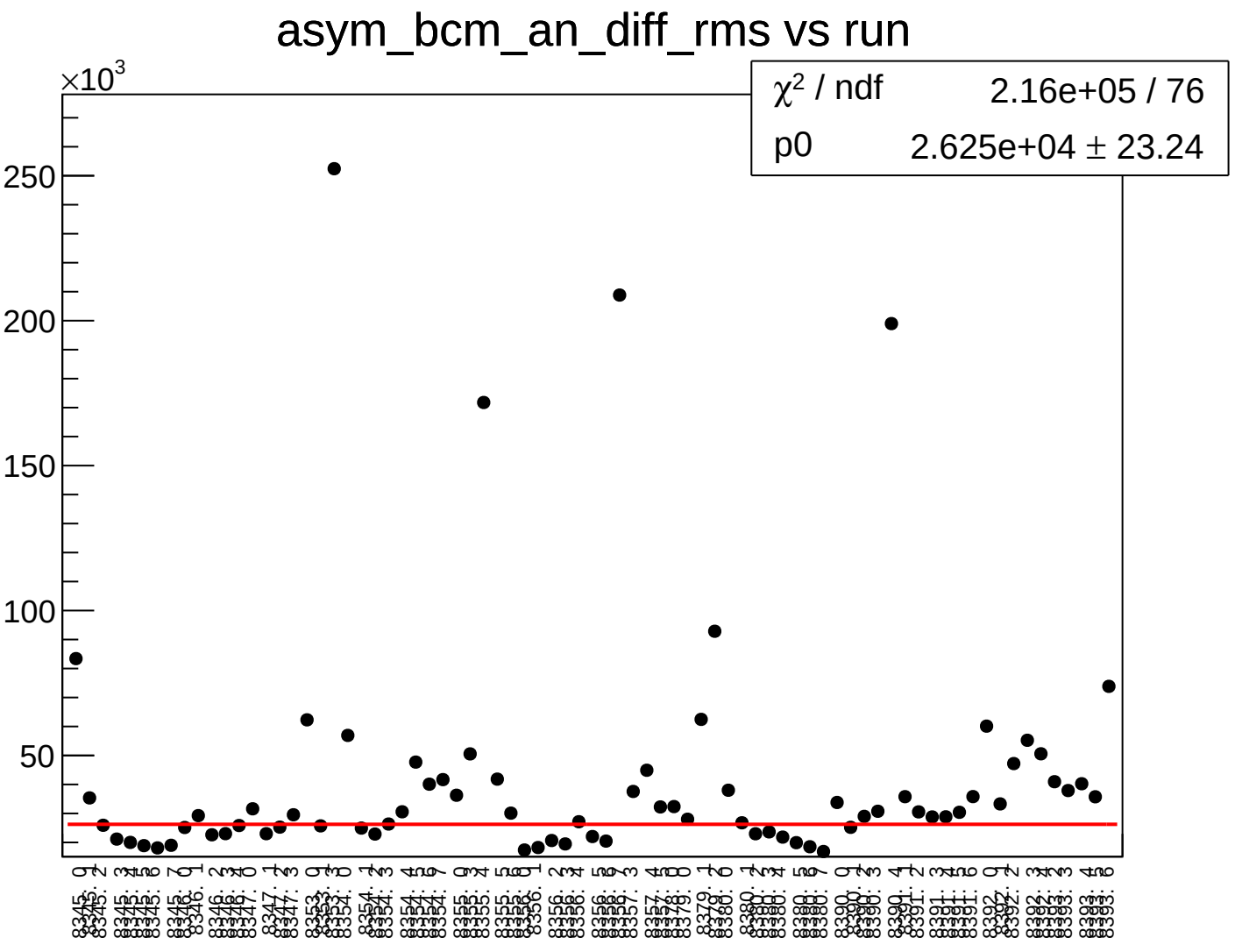

asym_bcm_target_mean vs run
χ² / ndf 25.88 / 92
p0 −380.6 ± 218.5
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 2224
Std Dev 0
1
0.5
0
−0.5
−1

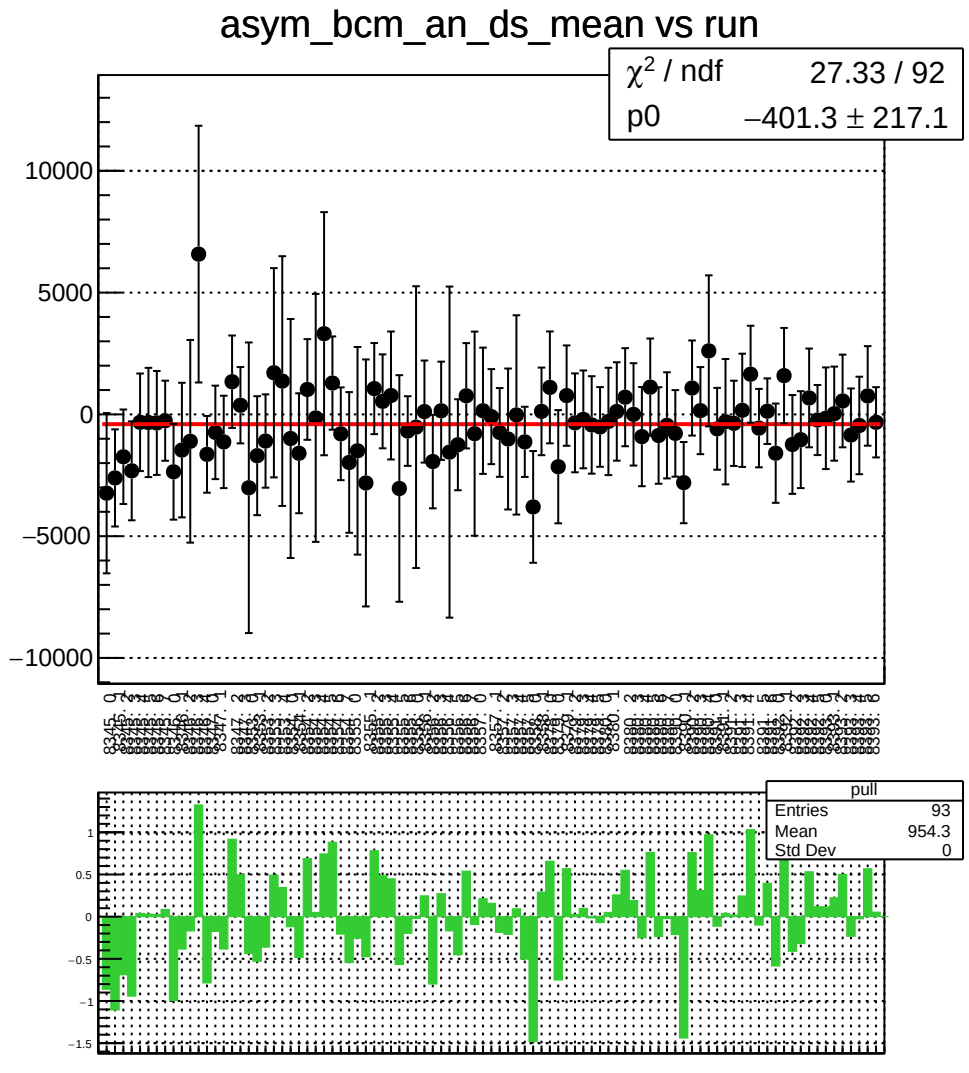

pull1D
Entries 93
Mean 0.001409
Std Dev 0.5275
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

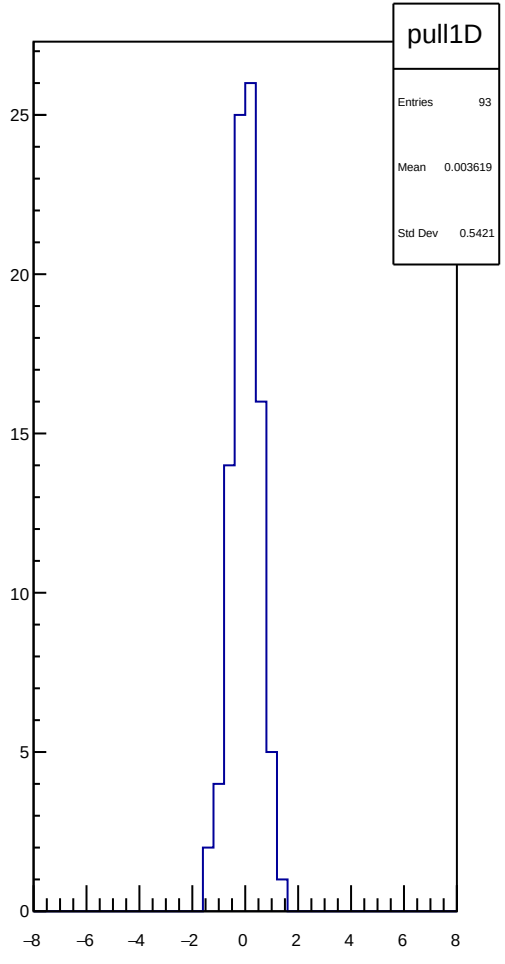

asym_bcm_target_rms vs run
χ^2 / ndf 1.292e+05 / 92
p0 200.9 ± 0.1545
700
600
500
400
300
200

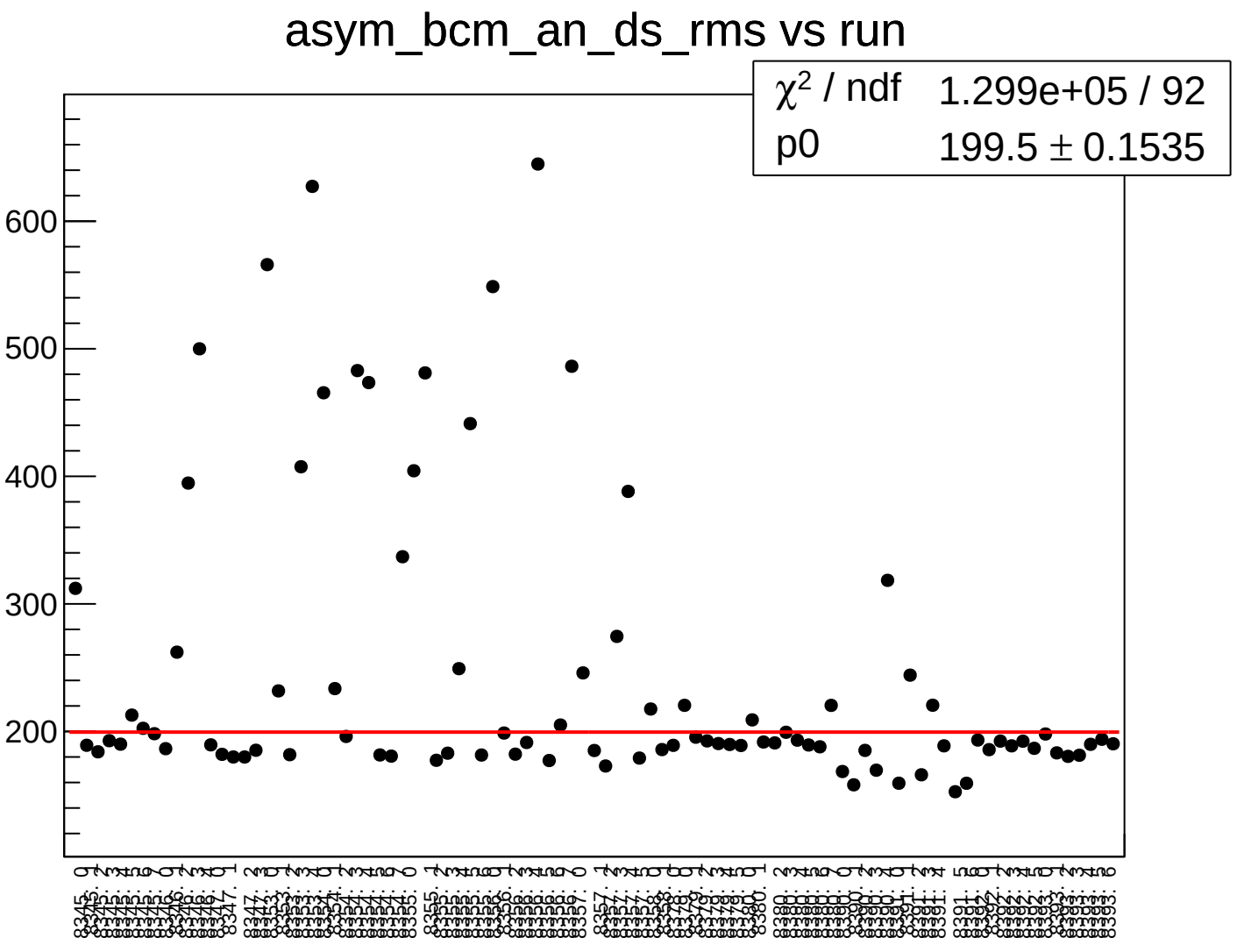

asym_bcm_an_diff_mean vs run
×10^3
χ^2 / ndf 111.5 / 90
p0 −7.93 ± 32.87
200
100
0
−100
−200
−300
−400
pull
Entries 91
Mean 77.53
Std Dev 0
3
2
1
0
−1
−2

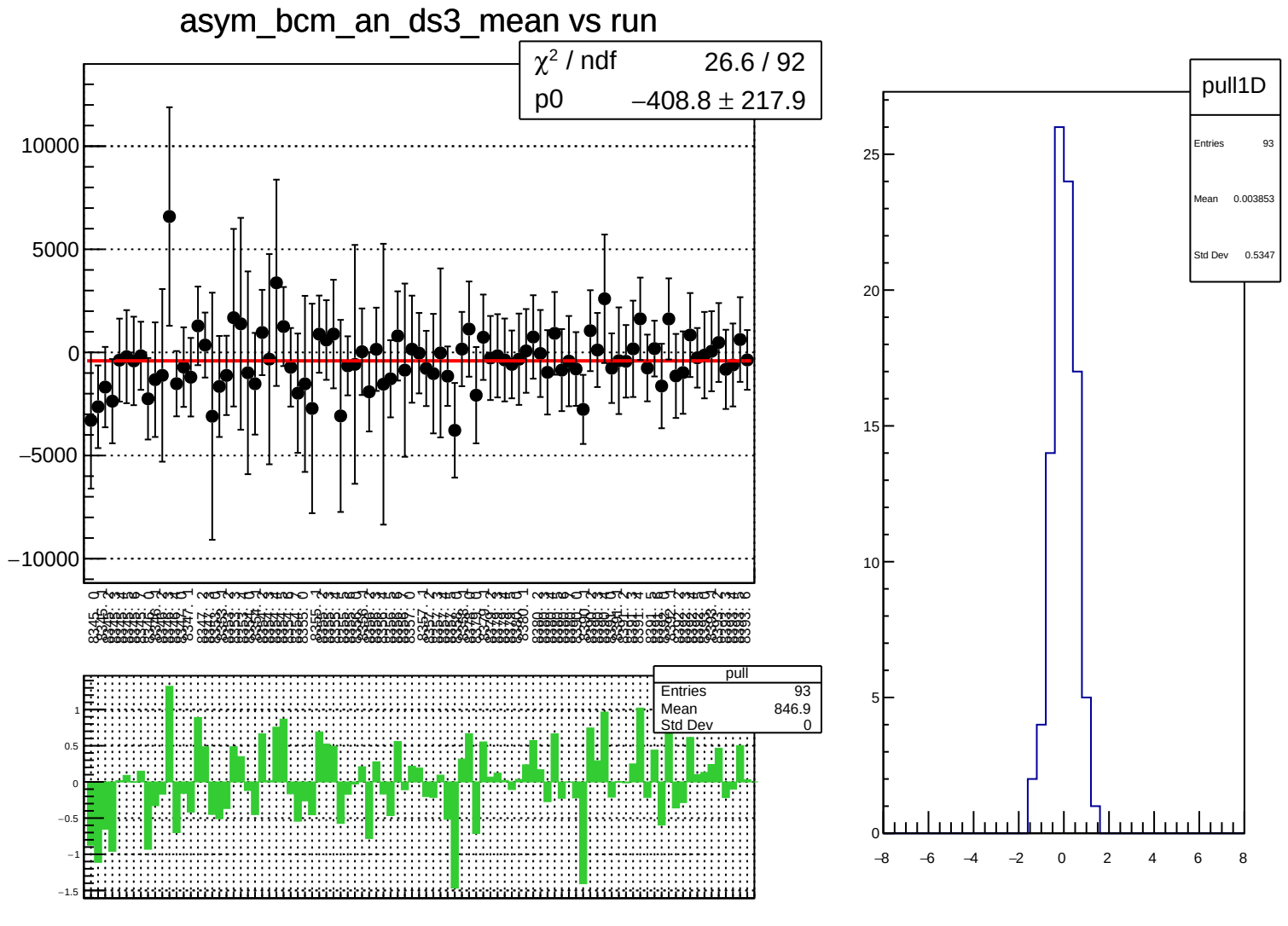

pull1D
Entries 91
Mean 0.08651
Std Dev 1.104
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

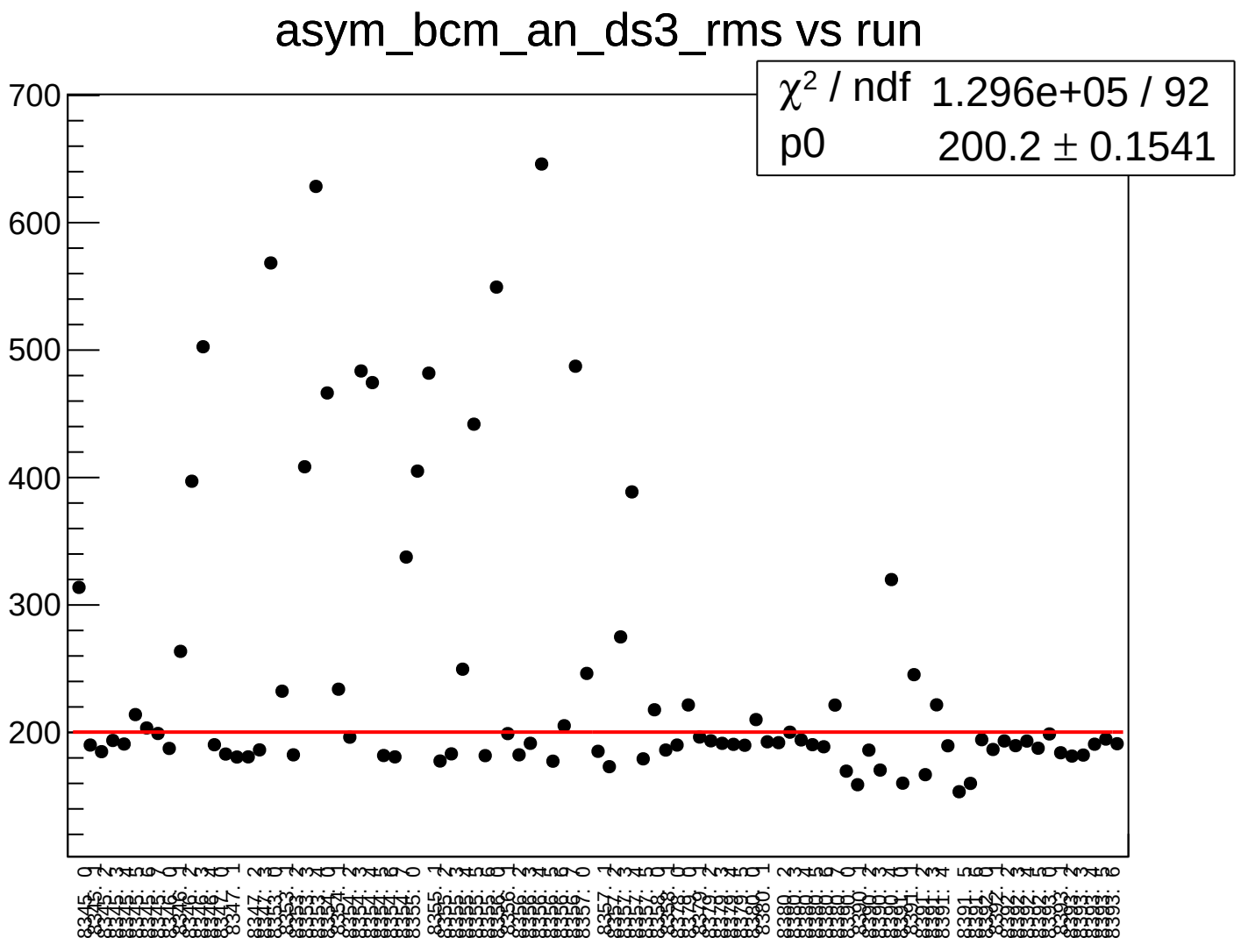

asym_bcm_an_diff_rms vs run
×10^3
250
200
150
100
50
χ² / ndf 2.16e+05 / 76
p0 2.625e+04 ± 23.24

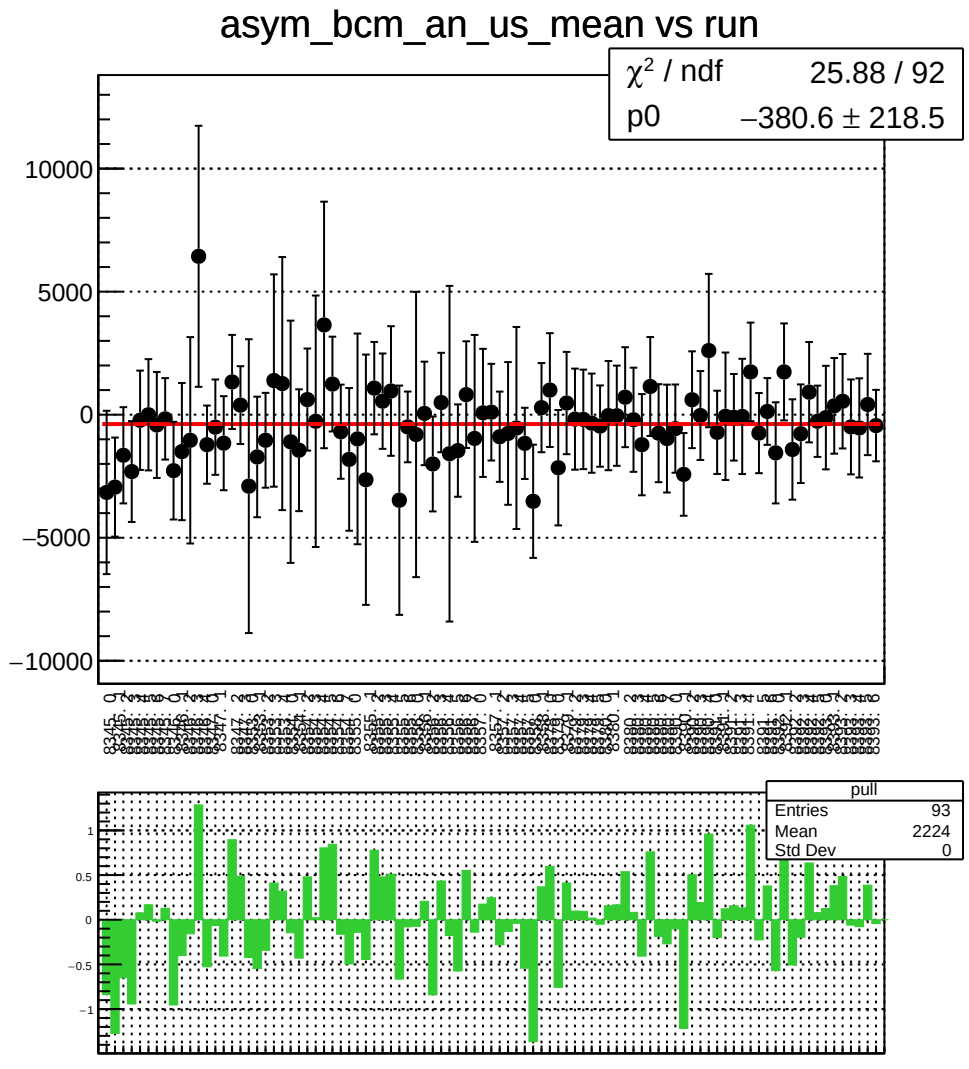

asym_bcm_an_ds_mean vs run
χ² / ndf 27.33 / 92
p0 −401.3 ± 217.1
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 954.3
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

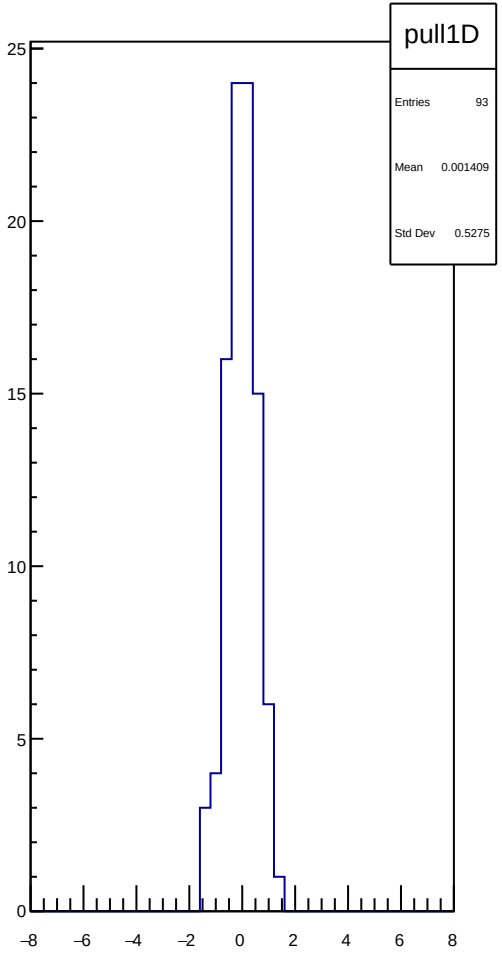

pull1D
Entries 93
Mean 0.003619
Std Dev 0.5421
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

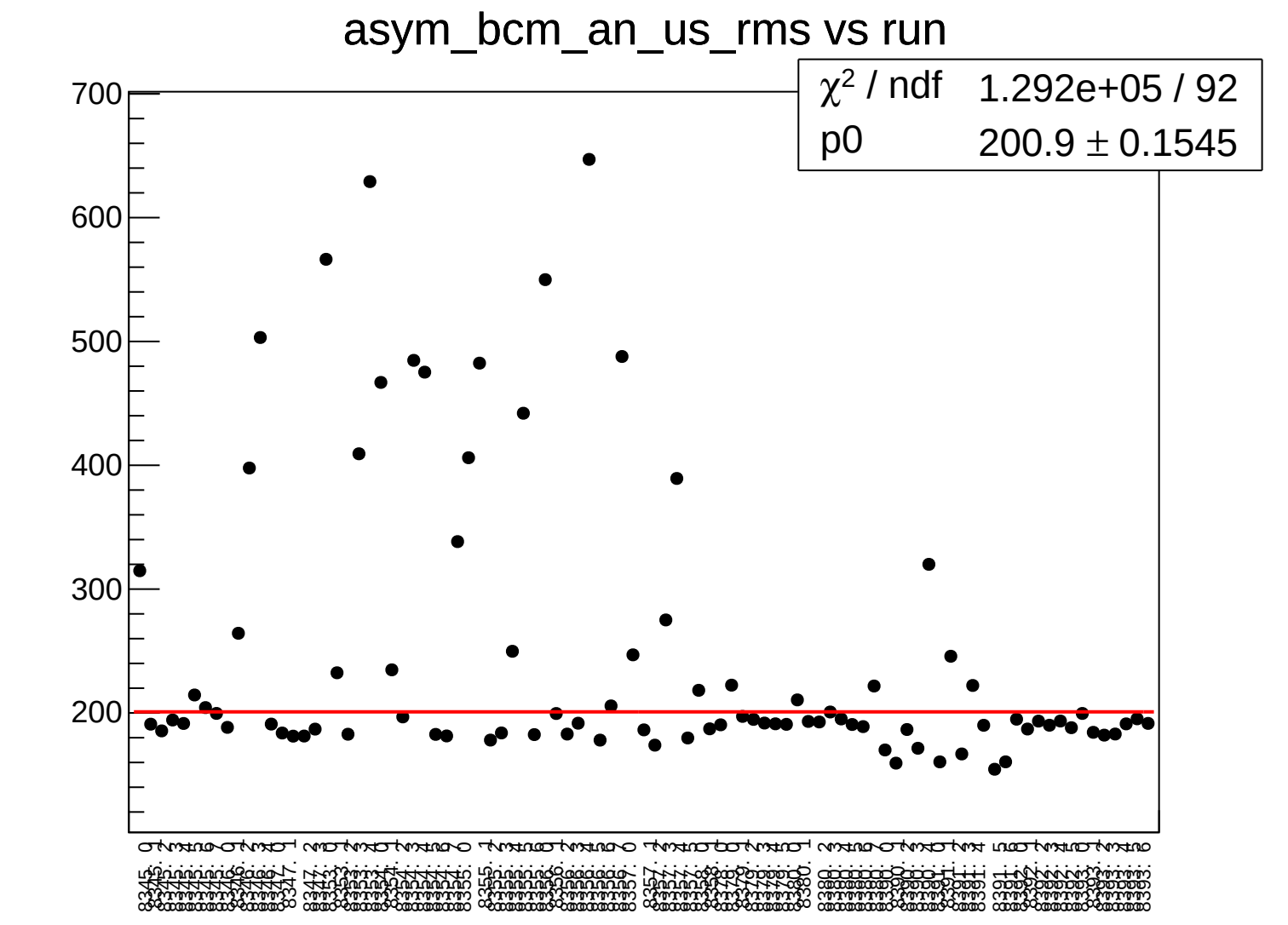

asym_bcm_an_ds_rms vs run
χ^2 / ndf 1.299e+05 / 92
p0 199.5 ± 0.1535
600
500
400
300
200

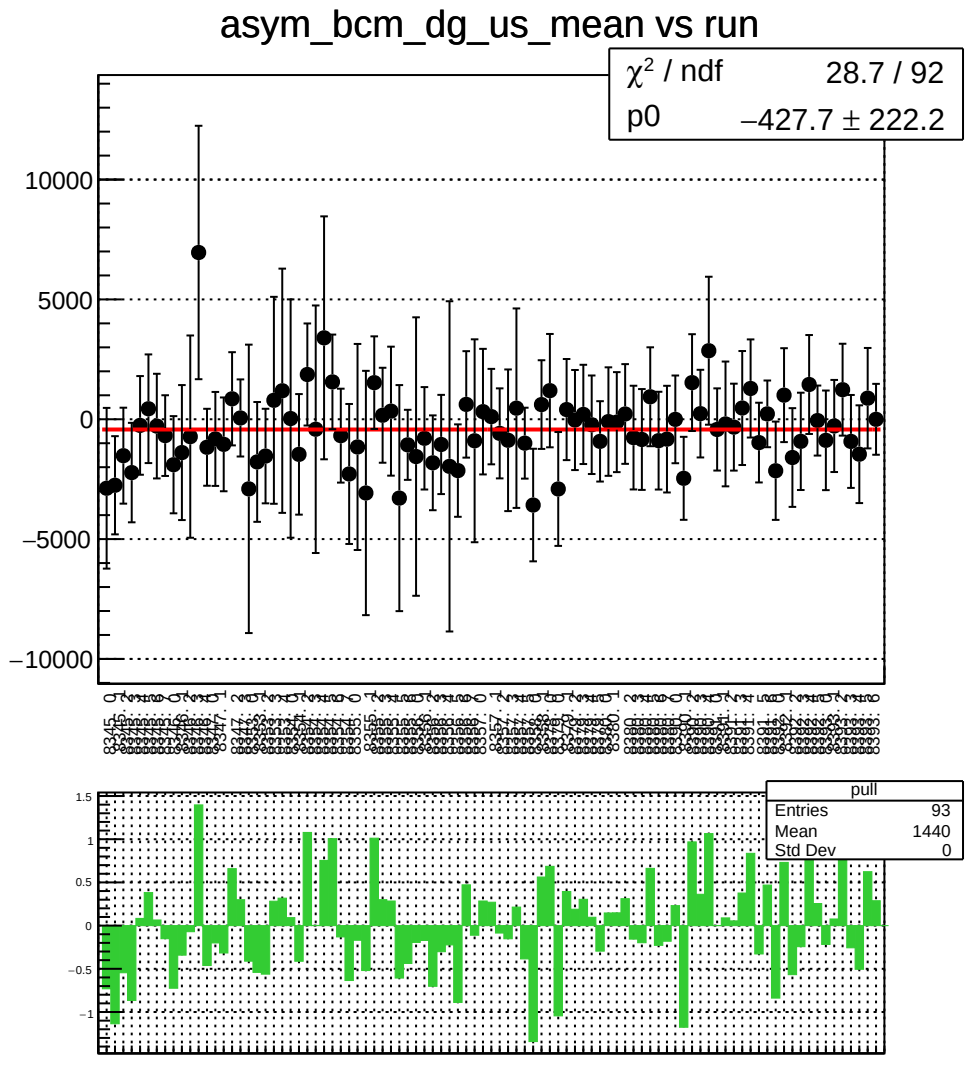

asym_bcm_an_ds3_mean vs run
χ² / ndf 26.6 / 92
p0 −408.8 ± 217.9
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 846.9
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean 0.003853
Std Dev 0.5347
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

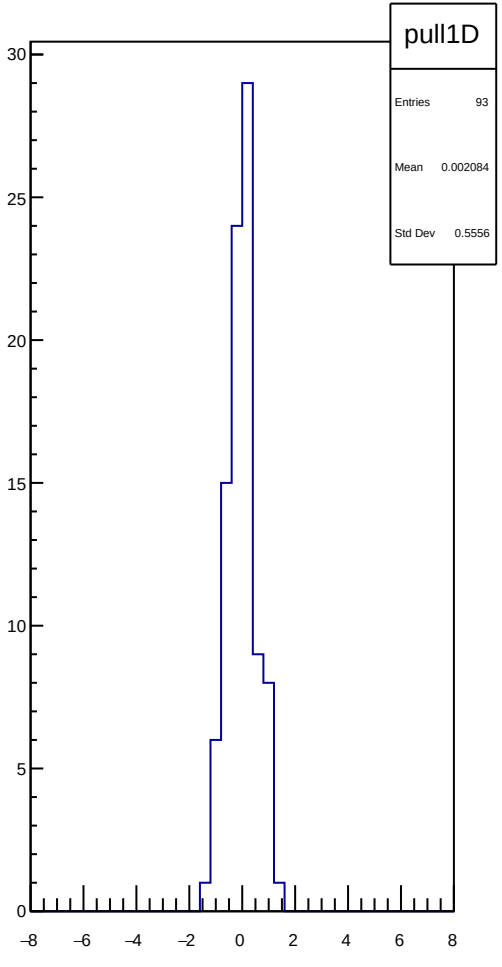

asym_bcm_an_ds3_rms vs run
χ^2 / ndf 1.296e+05 / 92
p0 200.2 ± 0.1541
700
600
500
400
300
200

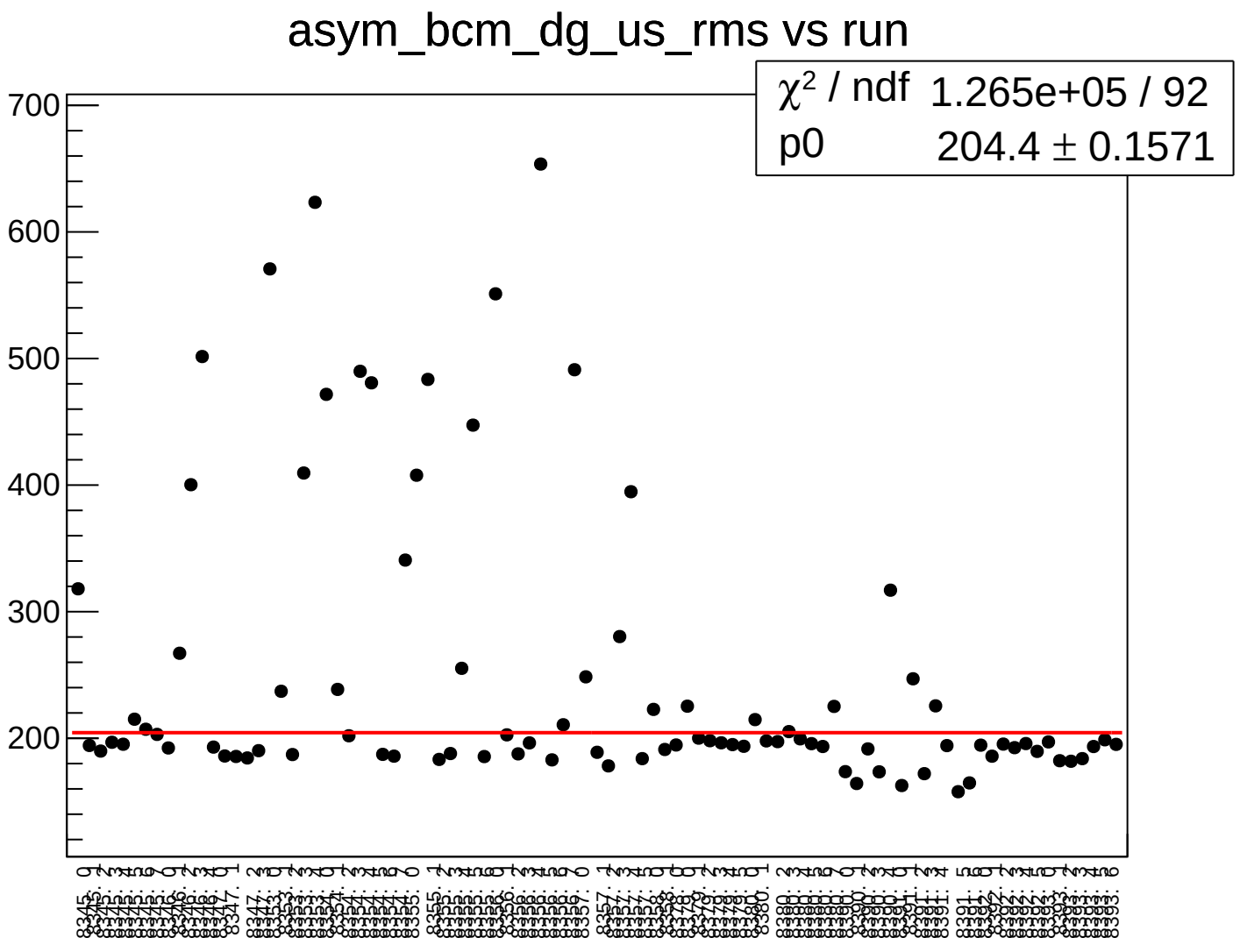

asym_bcm_an_us_mean vs run
χ² / ndf 25.88 / 92
p0 −380.6 ± 218.5
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 2224
Std Dev 0
1
0.5
0
−0.5
−1

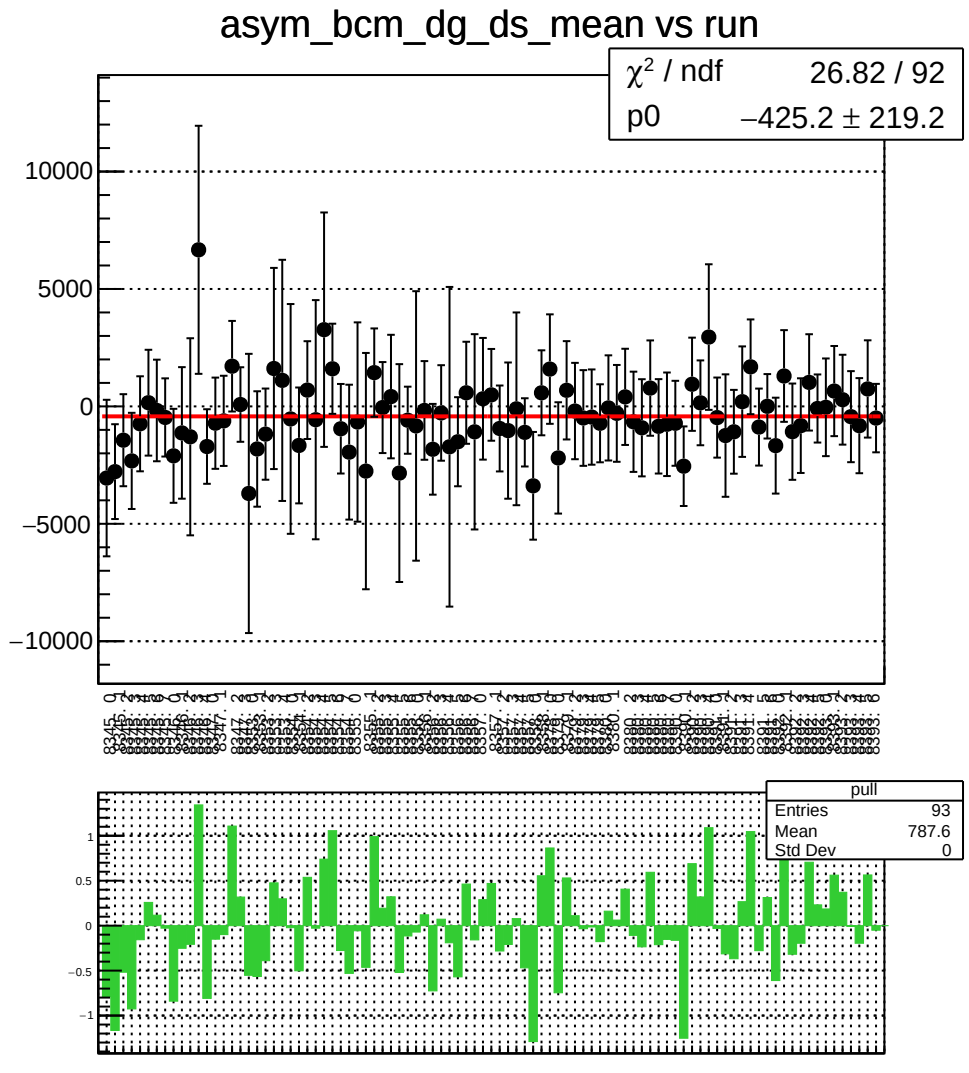

pull1D
Entries 93
Mean 0.001409
Std Dev 0.5275
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

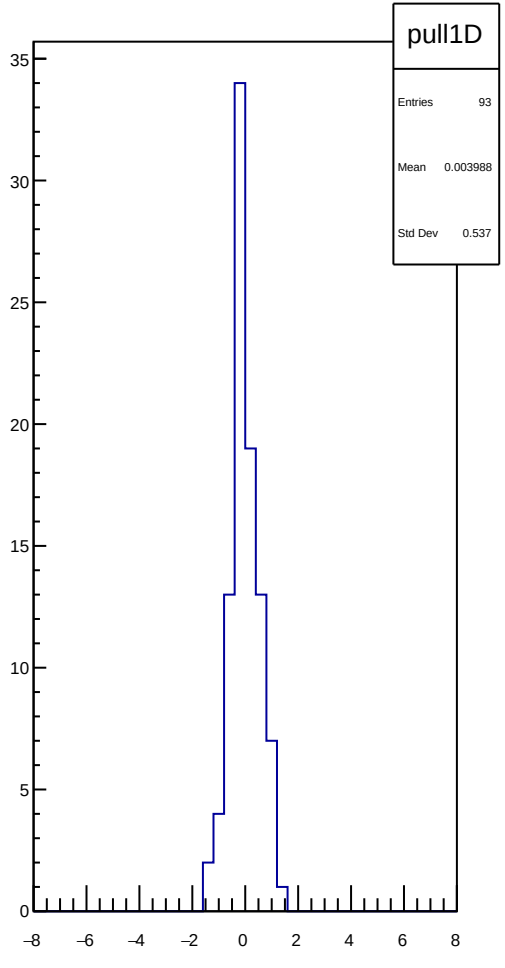

asym_bcm_an_us_rms vs run
χ^2 / ndf 1.292e+05 / 92
p0 200.9 ± 0.1545
700
600
500
400
300
200

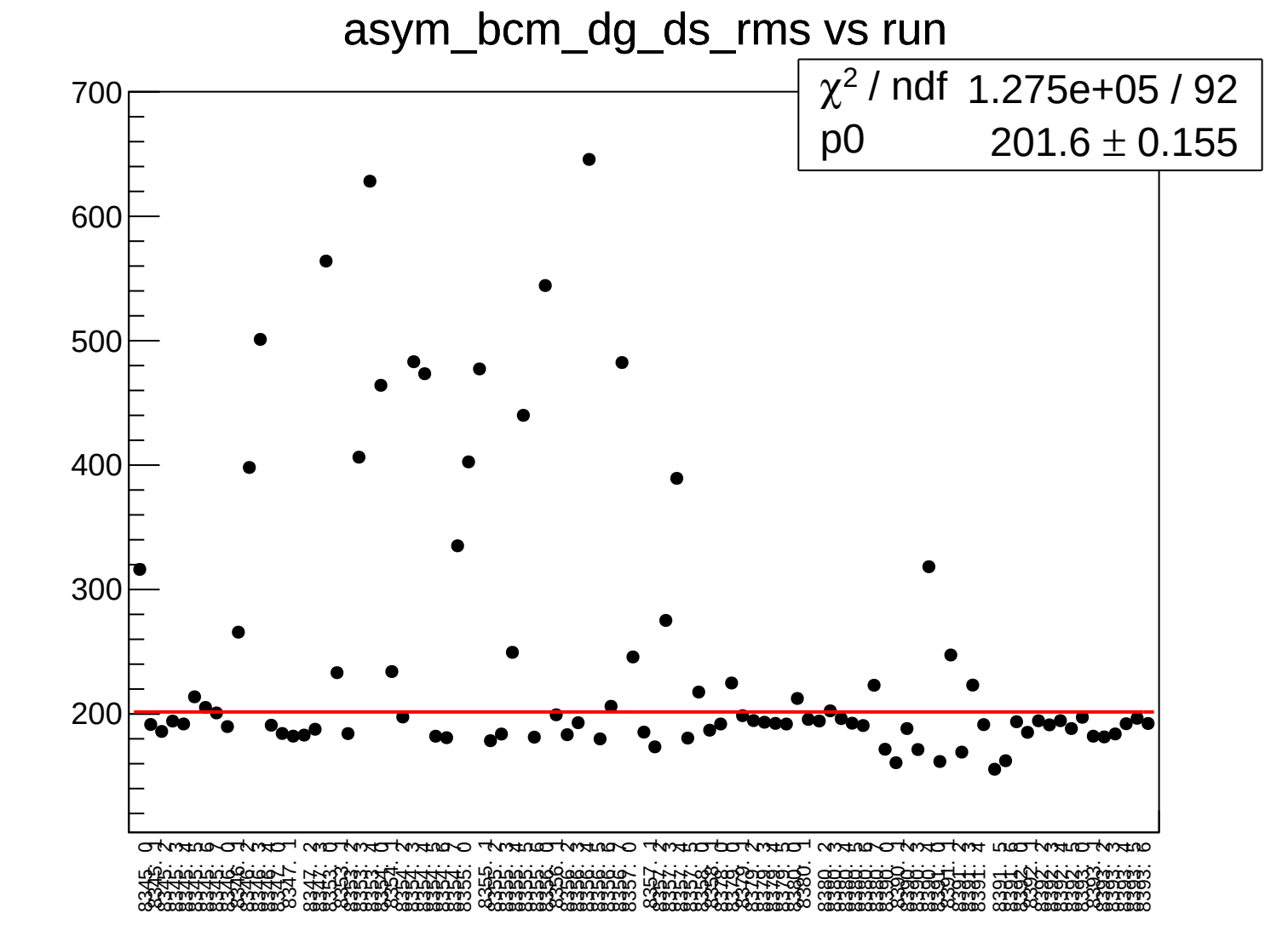

asym_bcm_dg_us_mean vs run
χ² / ndf 28.7 / 92
p0 −427.7 ± 222.2
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 1440
Std Dev 0
1.5
1
0.5
0
−0.5
−1

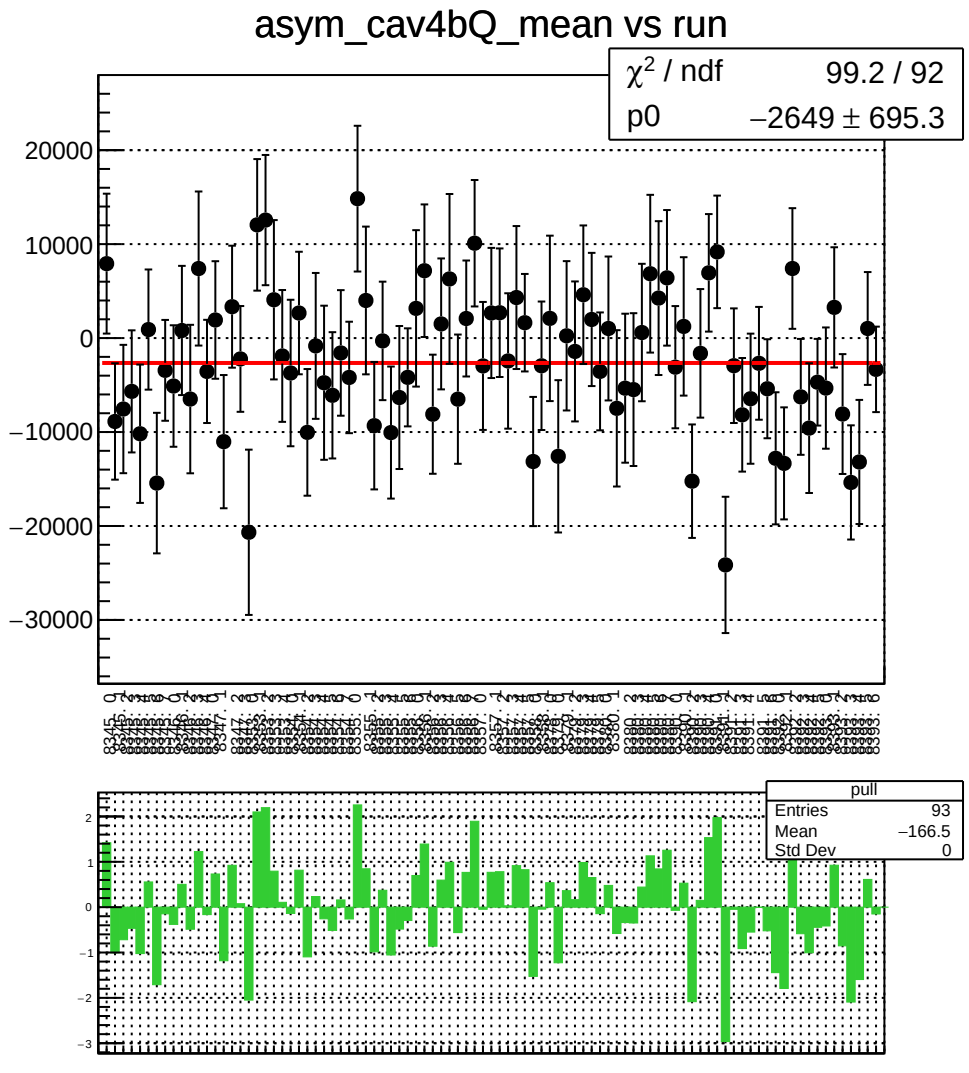

pull1D
Entries 93
Mean 0.002084
Std Dev 0.5556
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

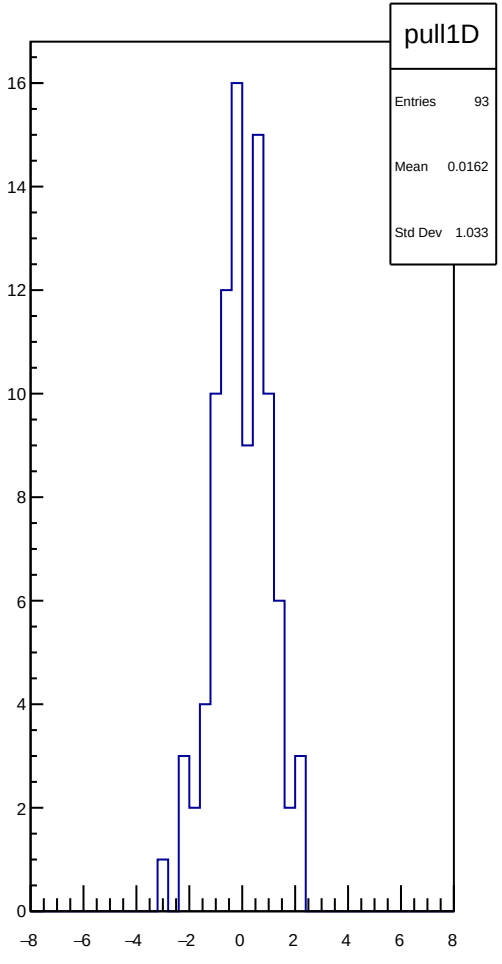

asym_bcm_dg_us_rms vs run
χ² / ndf 1.265e+05 / 92
p0 204.4 ± 0.1571
700
600
500
400
300
200

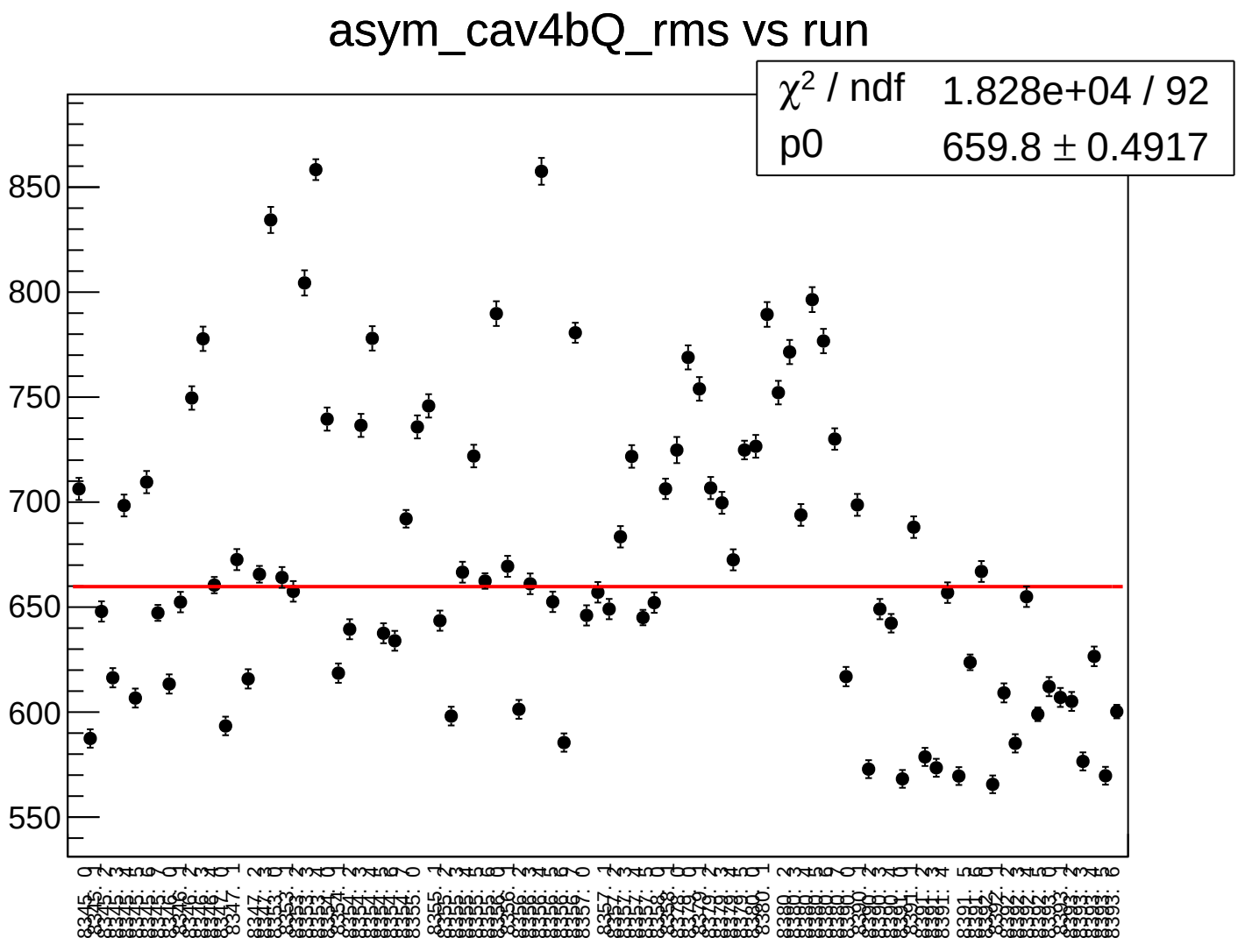

asym_bcm_dg_ds_mean vs run
χ² / ndf 26.82 / 92
p0 −425.2 ± 219.2
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 787.6
Std Dev 0
1
0.5
0
−0.5
−1

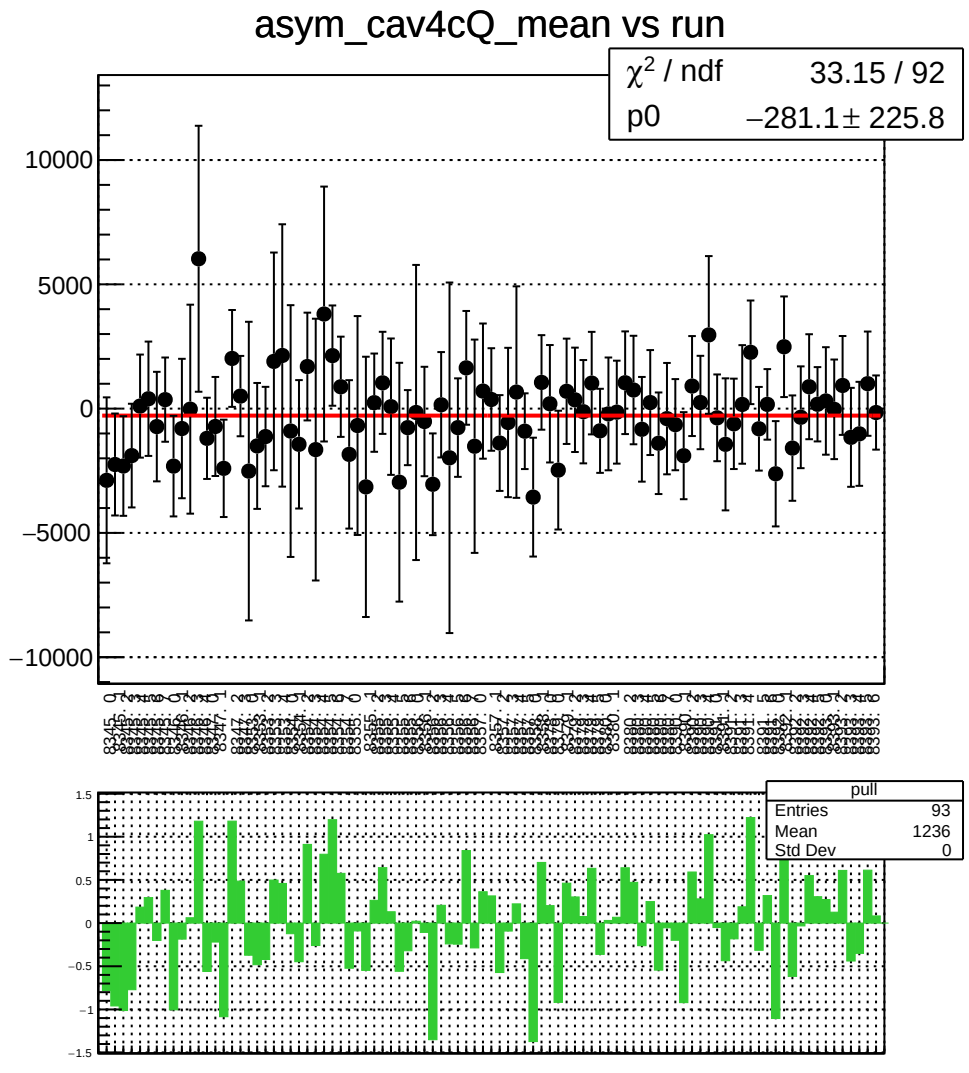

pull1D
Entries 93
Mean 0.003988
Std Dev 0.537
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

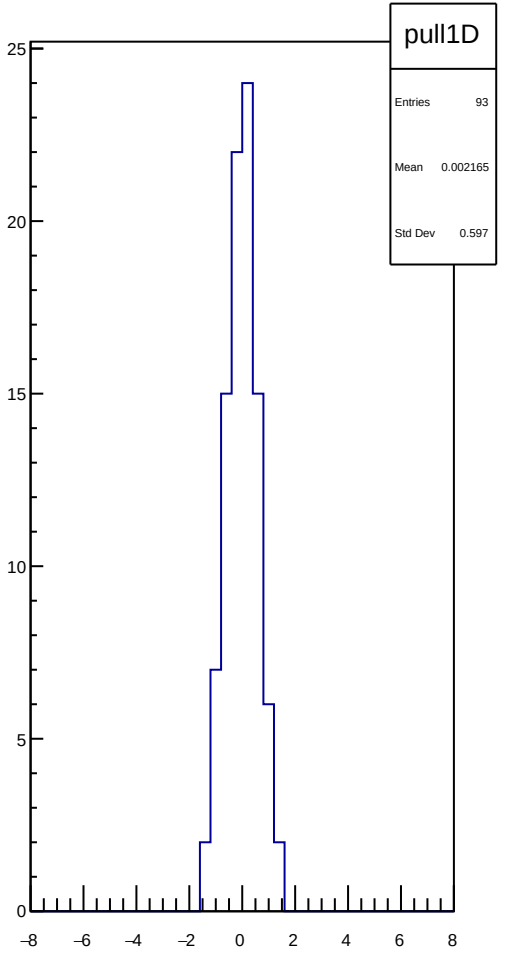

asym_bcm_dg_ds_rms vs run
χ^2 / ndf 1.275e+05 / 92
p0 201.6 ± 0.155
700
600
500
400
300
200

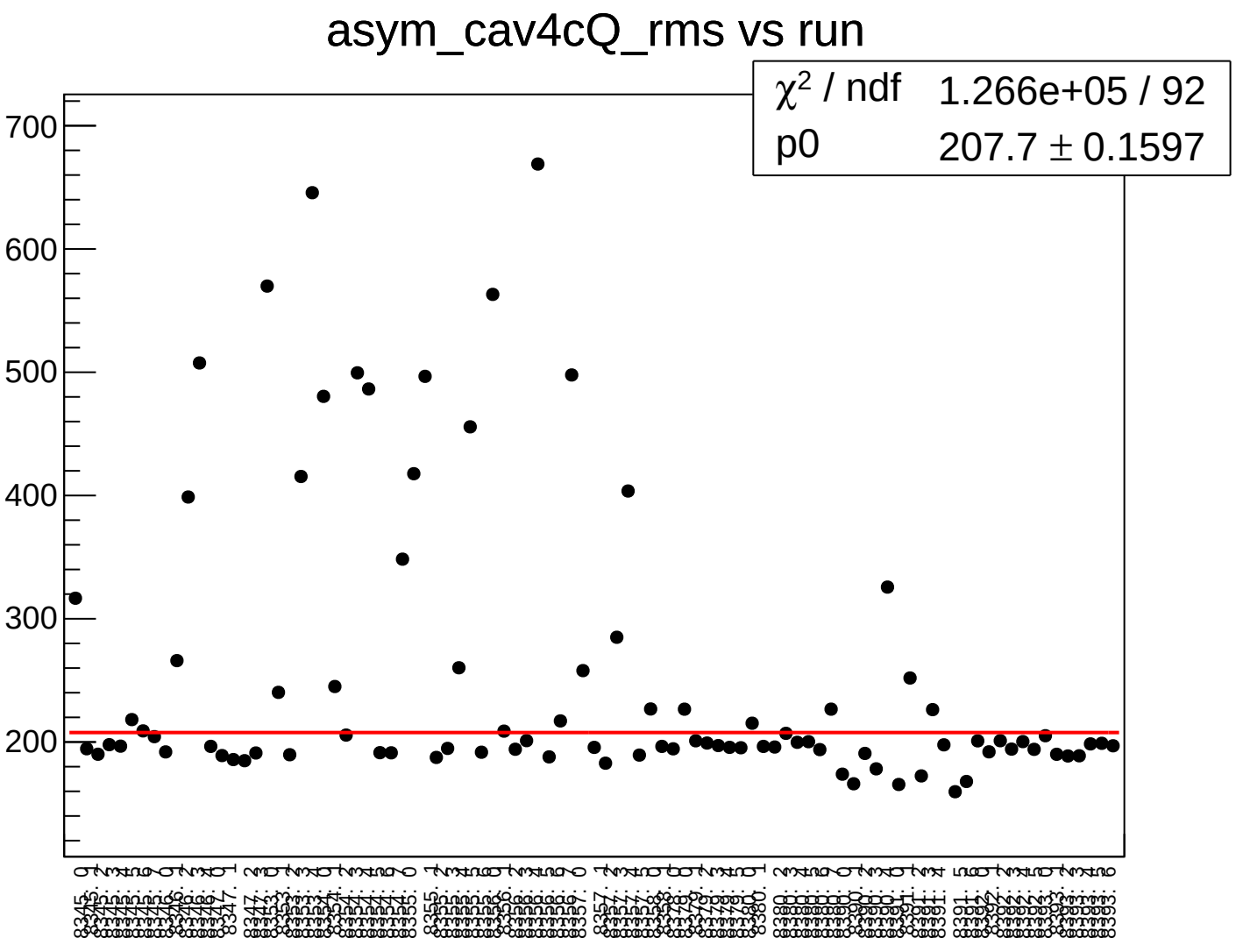

asym_cav4bQ_mean vs run
χ² / ndf 99.2 / 92
p0 −2649 ± 695.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −166.5
Std Dev 0
2
1
0
−1
−2
−3

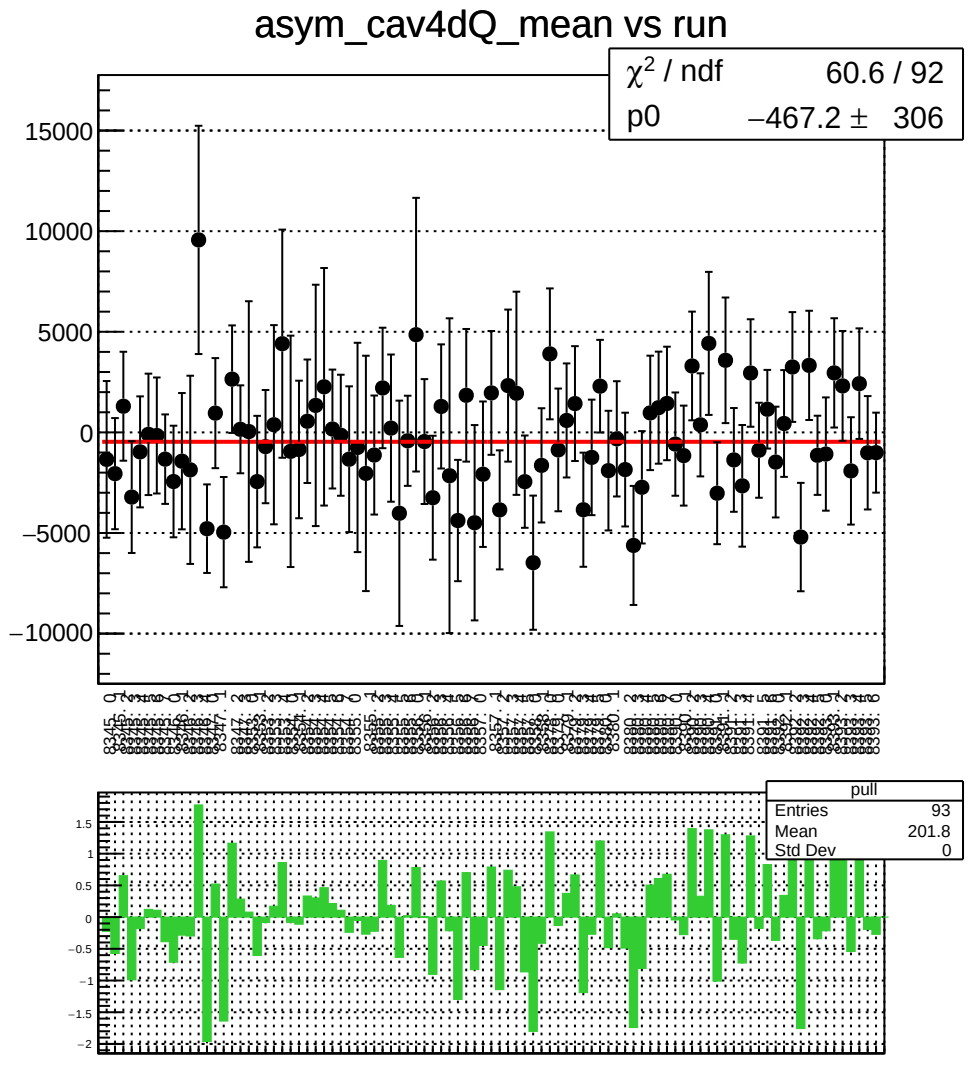

pull1D
Entries 93
Mean 0.0162
Std Dev 1.033
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

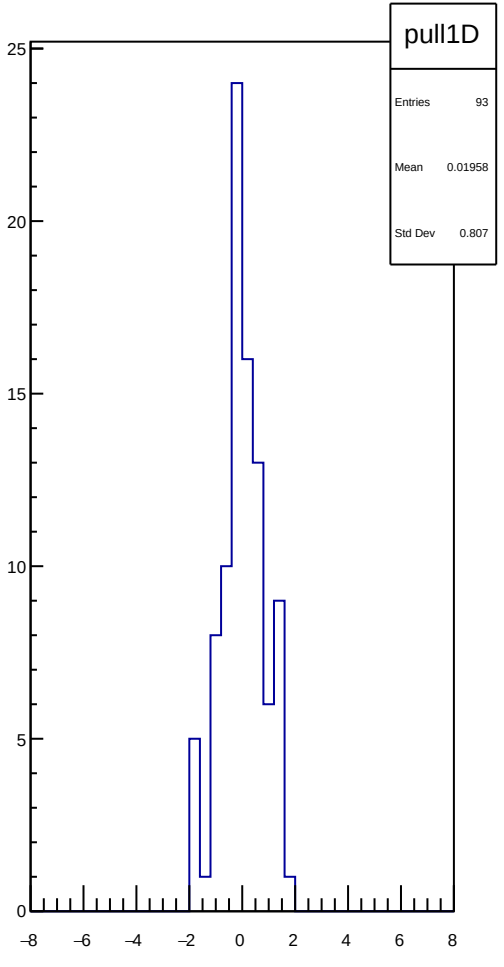

asym_cav4bQ_rms vs run
χ² / ndf 1.828e+04 / 92
p0 659.8 ± 0.4917
850
800
750
700
650
600
550

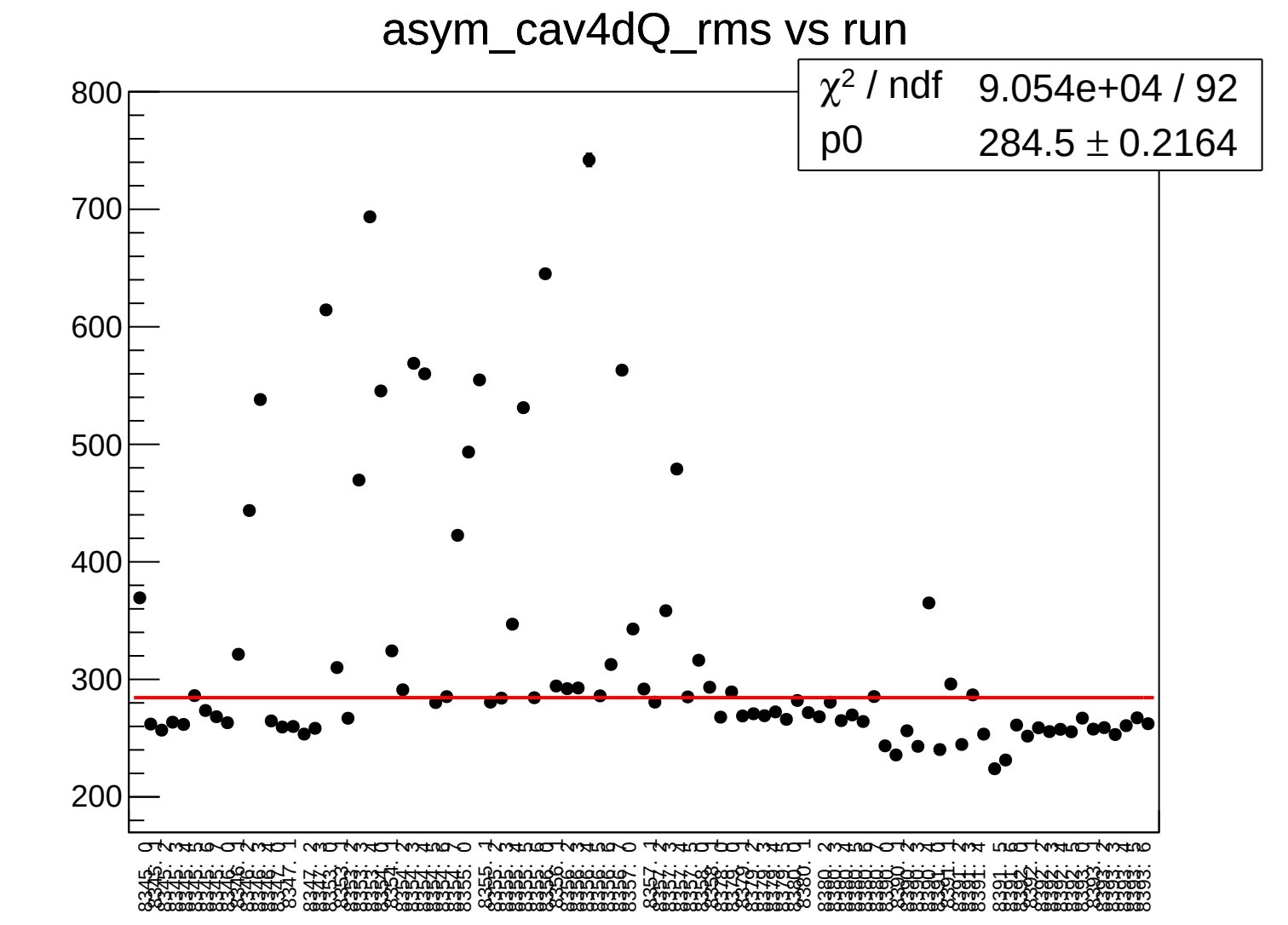

asym_cav4cQ_mean vs run
χ² / ndf 33.15 / 92
p0 −281.1± 225.8
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 1236
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

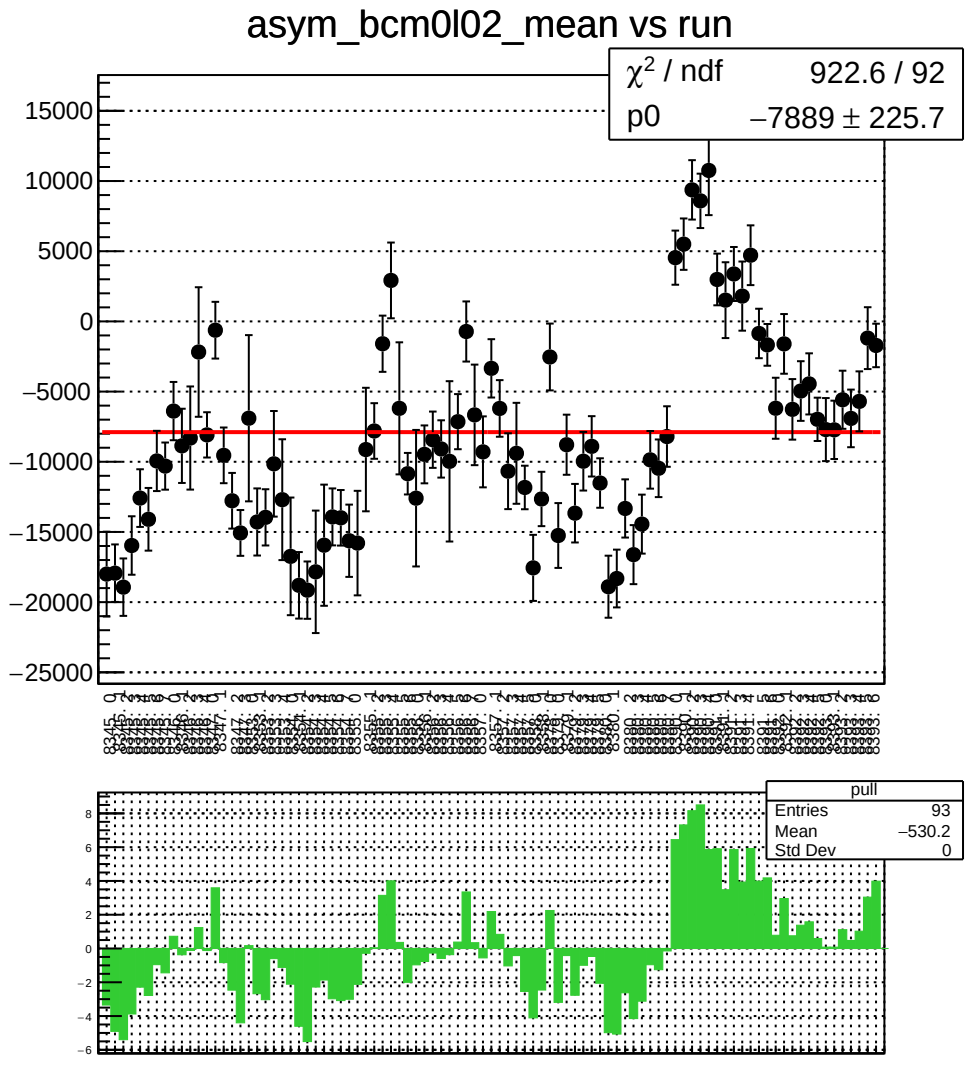

pull1D
Entries 93
Mean 0.002165
Std Dev 0.597
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

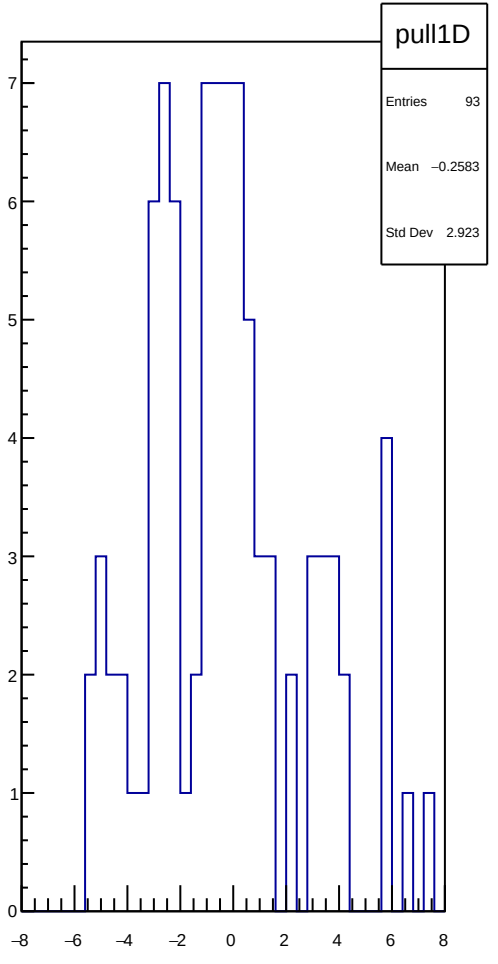

asym_cav4cQ_rms vs run
χ^2 / ndf 1.266e+05 / 92
p0 207.7 ± 0.1597
700
600
500
400
300
200

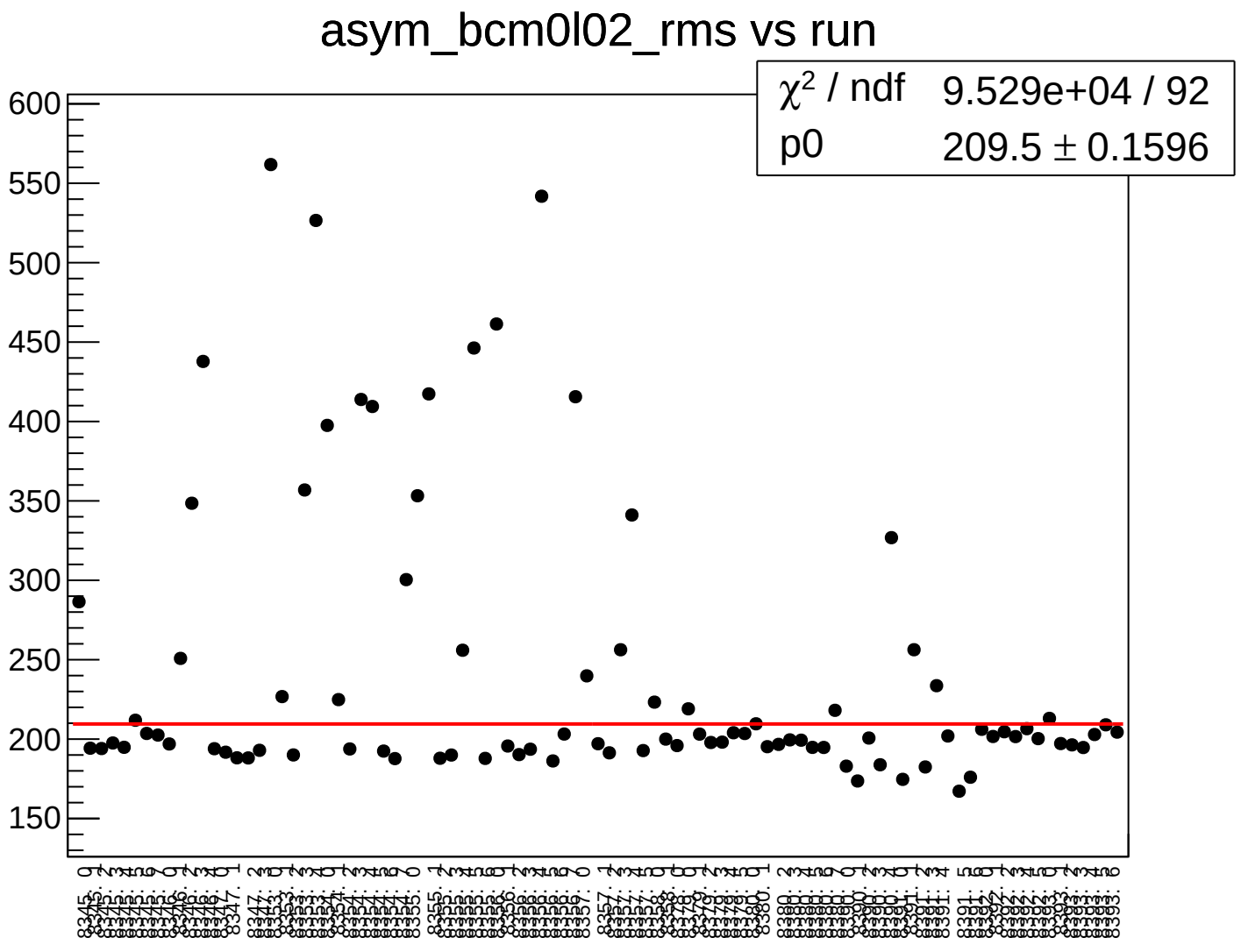

asym_cav4dQ_mean vs run
χ² / ndf 60.6 / 92
p0 −467.2 ± 306
15000
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 201.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

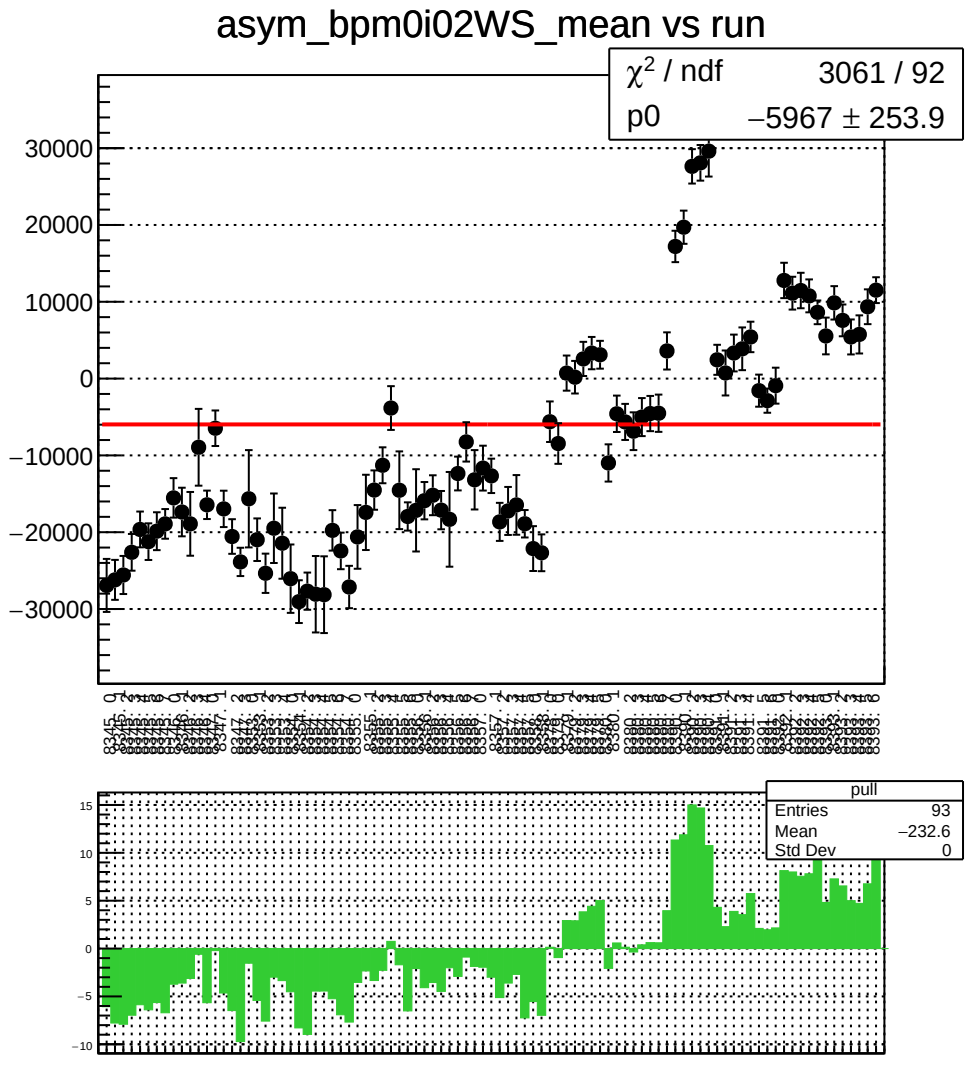

pull1D
Entries 93
Mean 0.01958
Std Dev 0.807
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

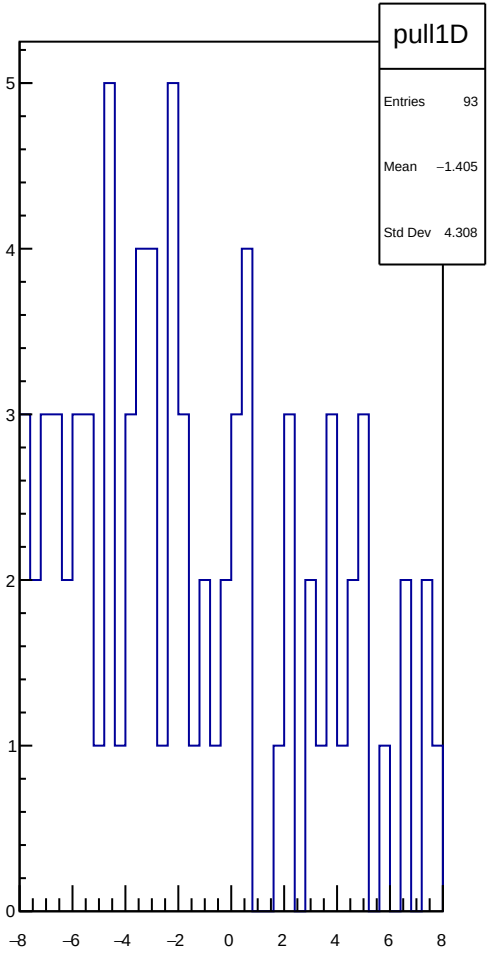

asym_cav4dQ_rms vs run
χ^2 / ndf 9.054e+04 / 92
p0 284.5 ± 0.2164
800
700
600
500
400
300
200

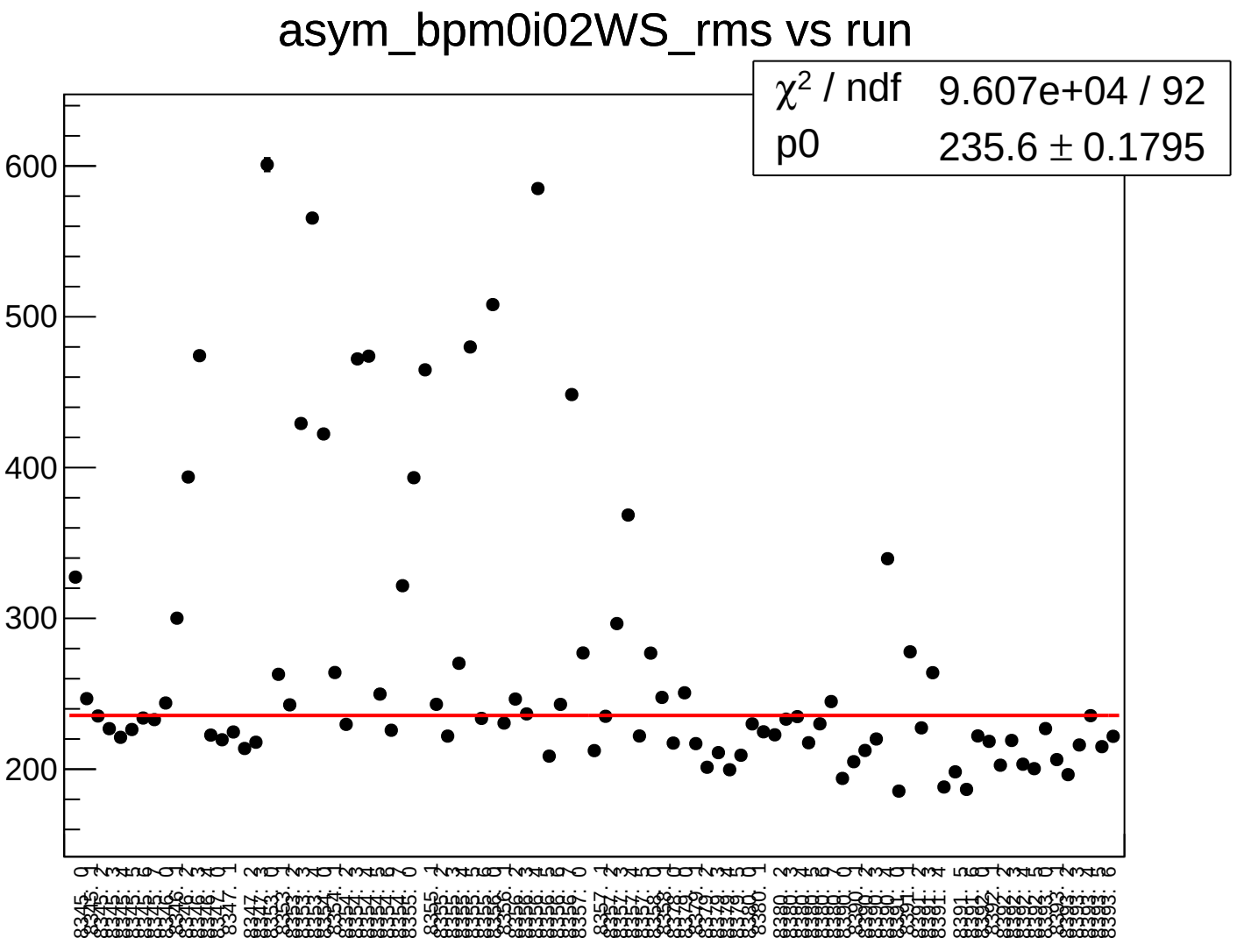

asym_bcm0l02_mean vs run
χ² / ndf 922.6 / 92
p0 −7889 ± 225.7
pull
Entries 93
Mean −530.2
Std Dev 0

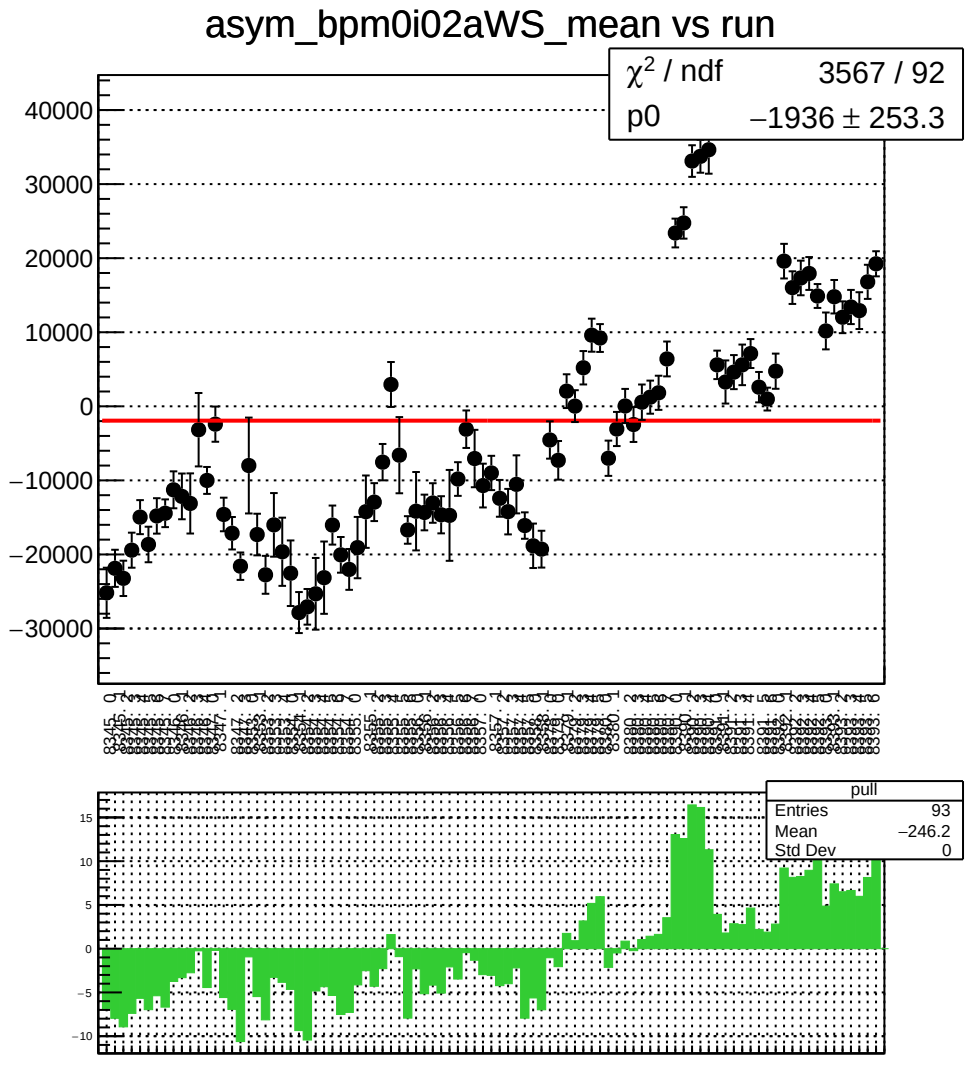

pull1D
Entries 93
Mean −0.2583
Std Dev 2.923

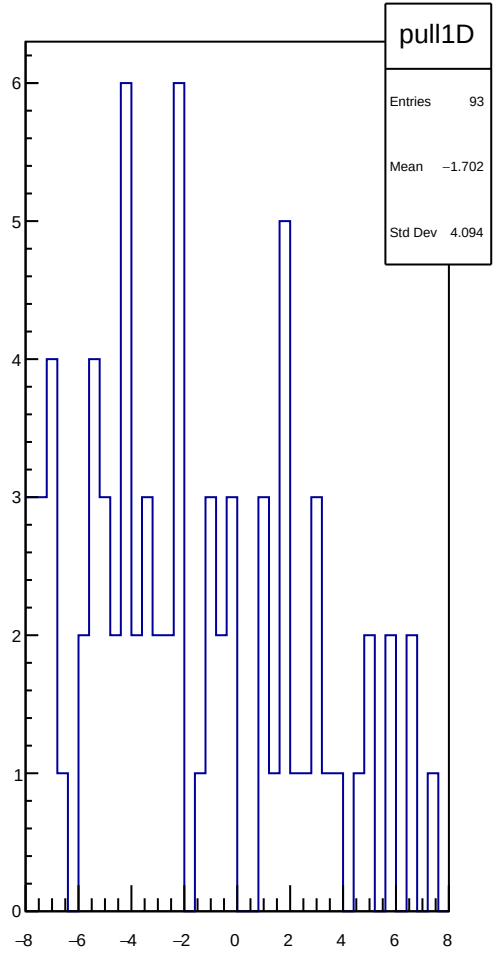

asym_bcm0l02_rms vs run
χ^2 / ndf 9.529e+04 / 92
p0 209.5 ± 0.1596
600
550
500
450
400
350
300
250
200
150

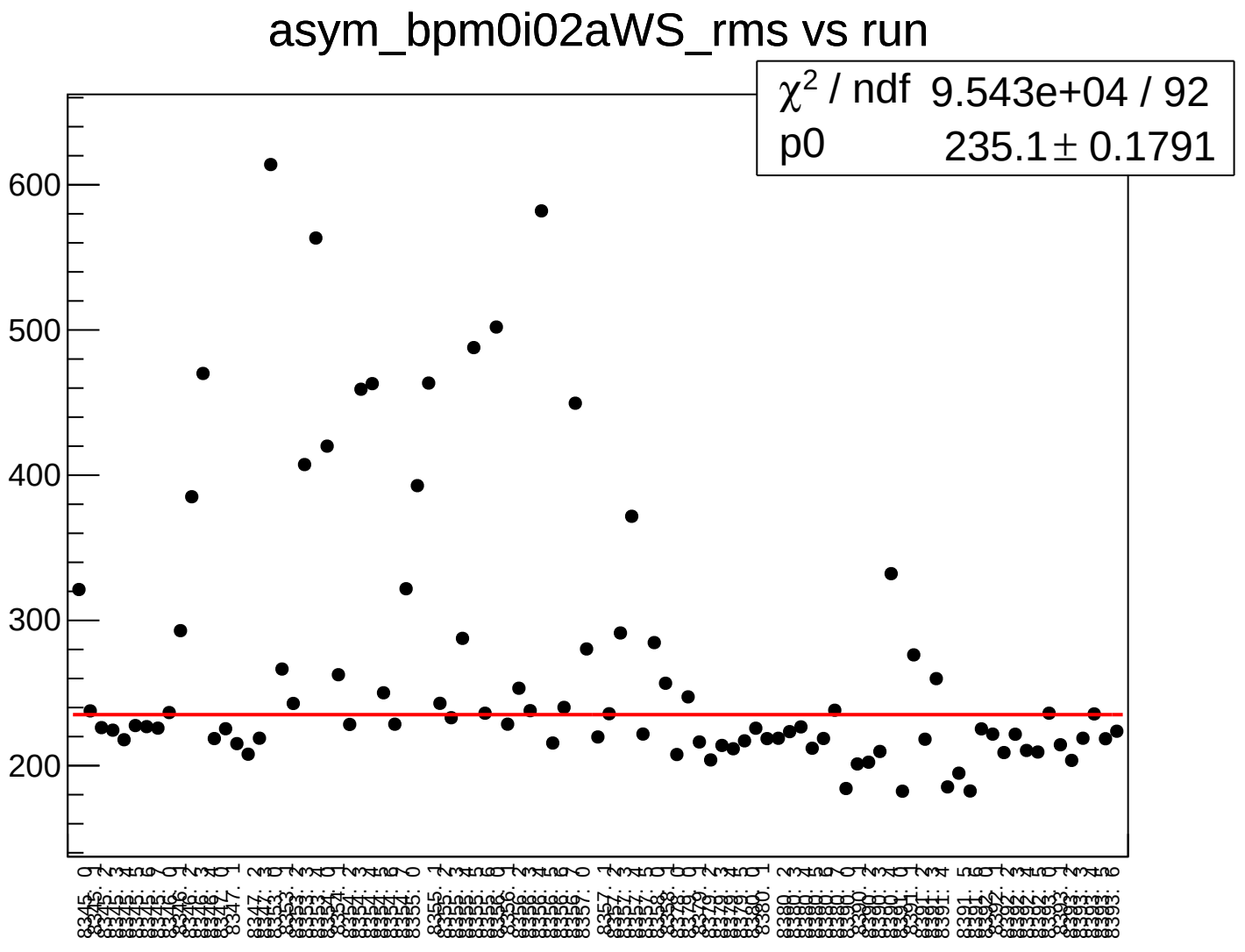

asym_bpm0i02WS_mean vs run
χ² / ndf 3061 / 92
p0 −5967 ± 253.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −232.6
Std Dev 0
15
10
5
0
−5
−10

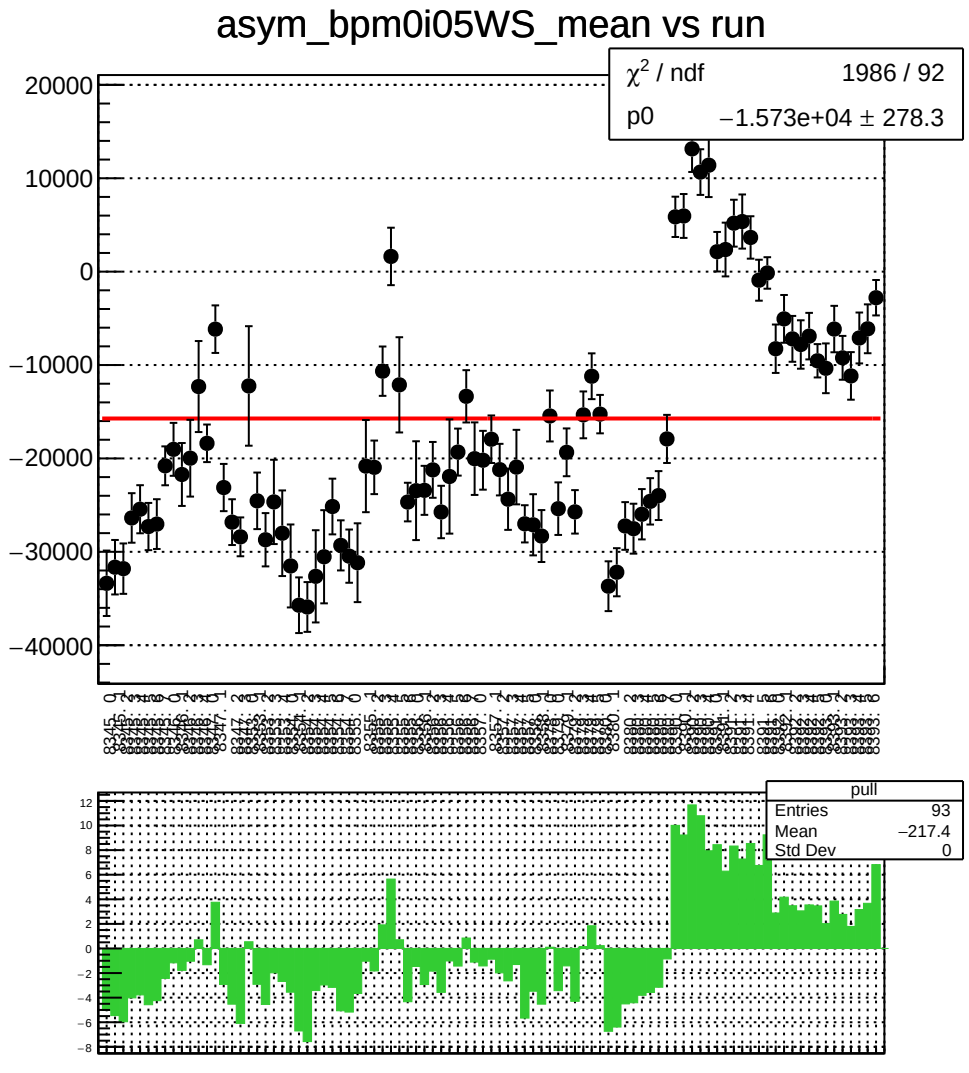

pull1D
Entries 93
Mean −1.405
Std Dev 4.308
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

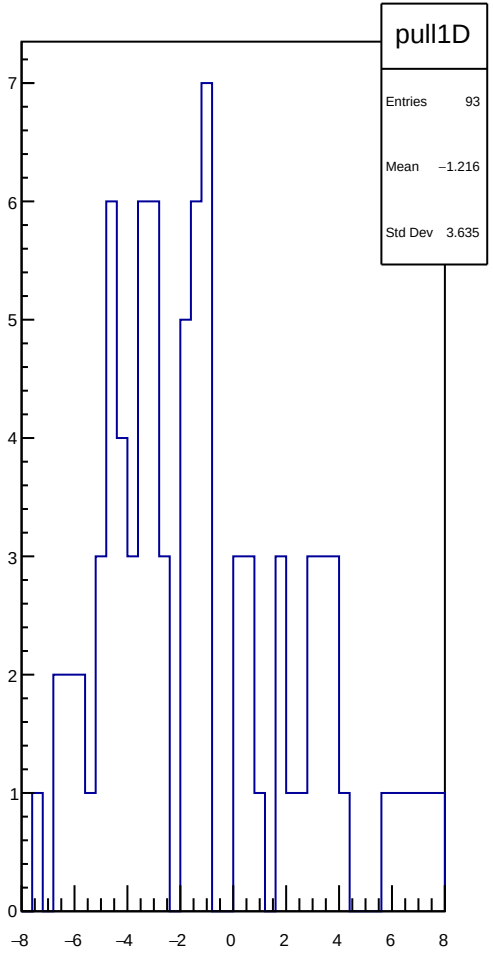

asym_bpm0i02WS_rms vs run
χ^2 / ndf 9.607e+04 / 92
p0 235.6 ± 0.1795
600
500
400
300
200

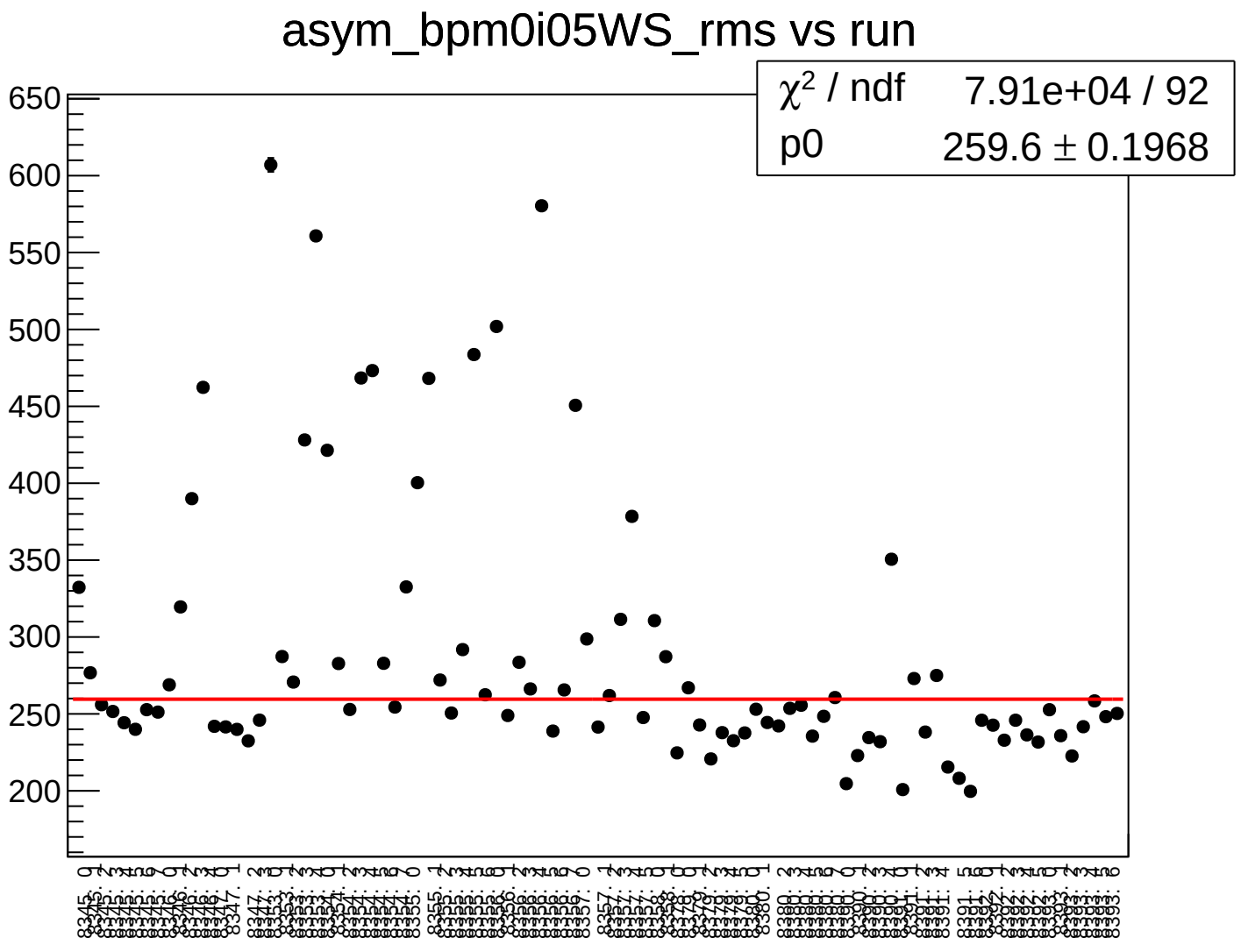

asym_bpm0i02aWS_mean vs run
χ² / ndf 3567 / 92
p0 −1936 ± 253.3
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −246.2
Std Dev 0
15
10
5
0
−5
−10

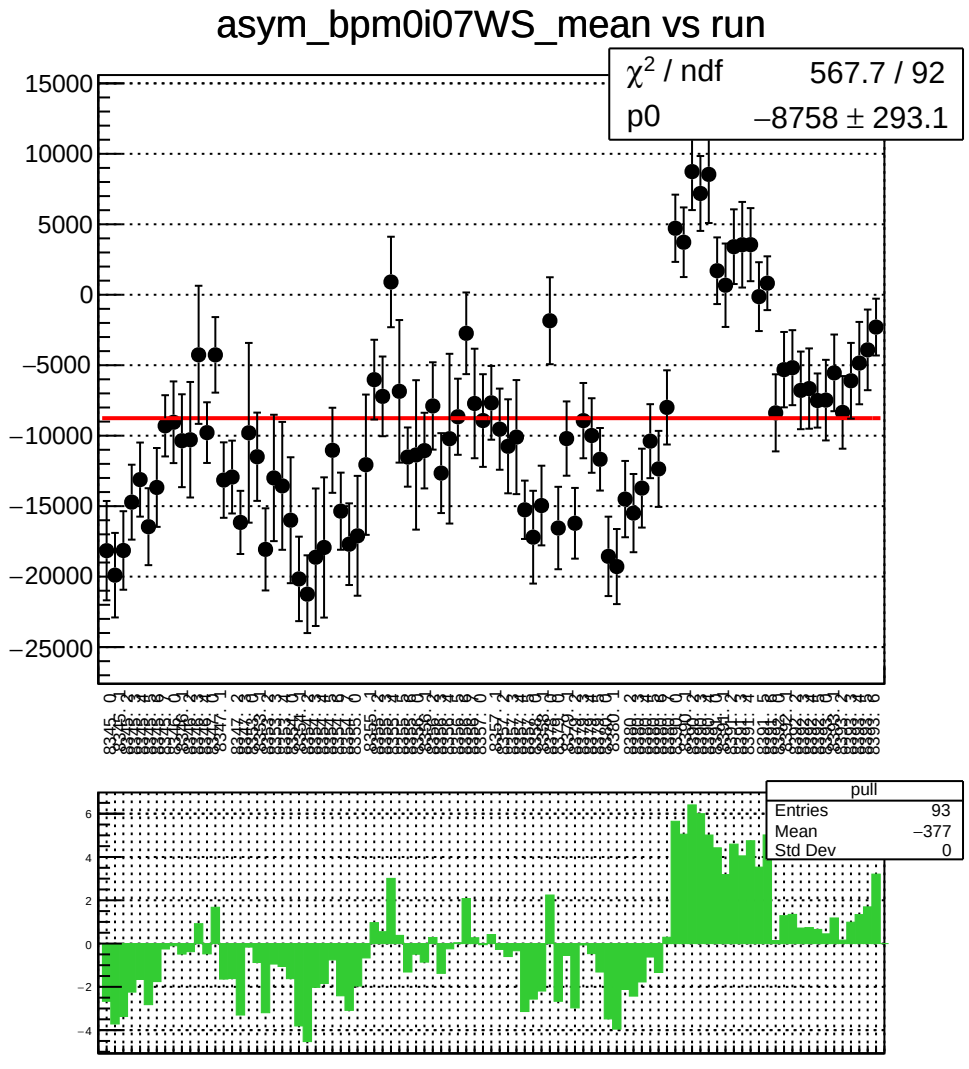

pull1D
Entries 93
Mean −1.702
Std Dev 4.094
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

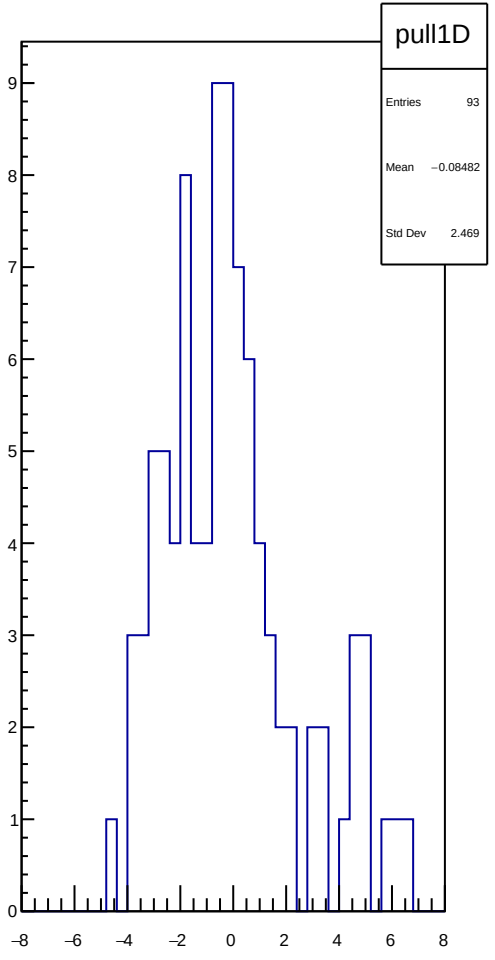

asym_bpm0i02aWS_rms vs run
χ^2 / ndf 9.543e+04 / 92
p0 235.1 ± 0.1791
600
500
400
300
200

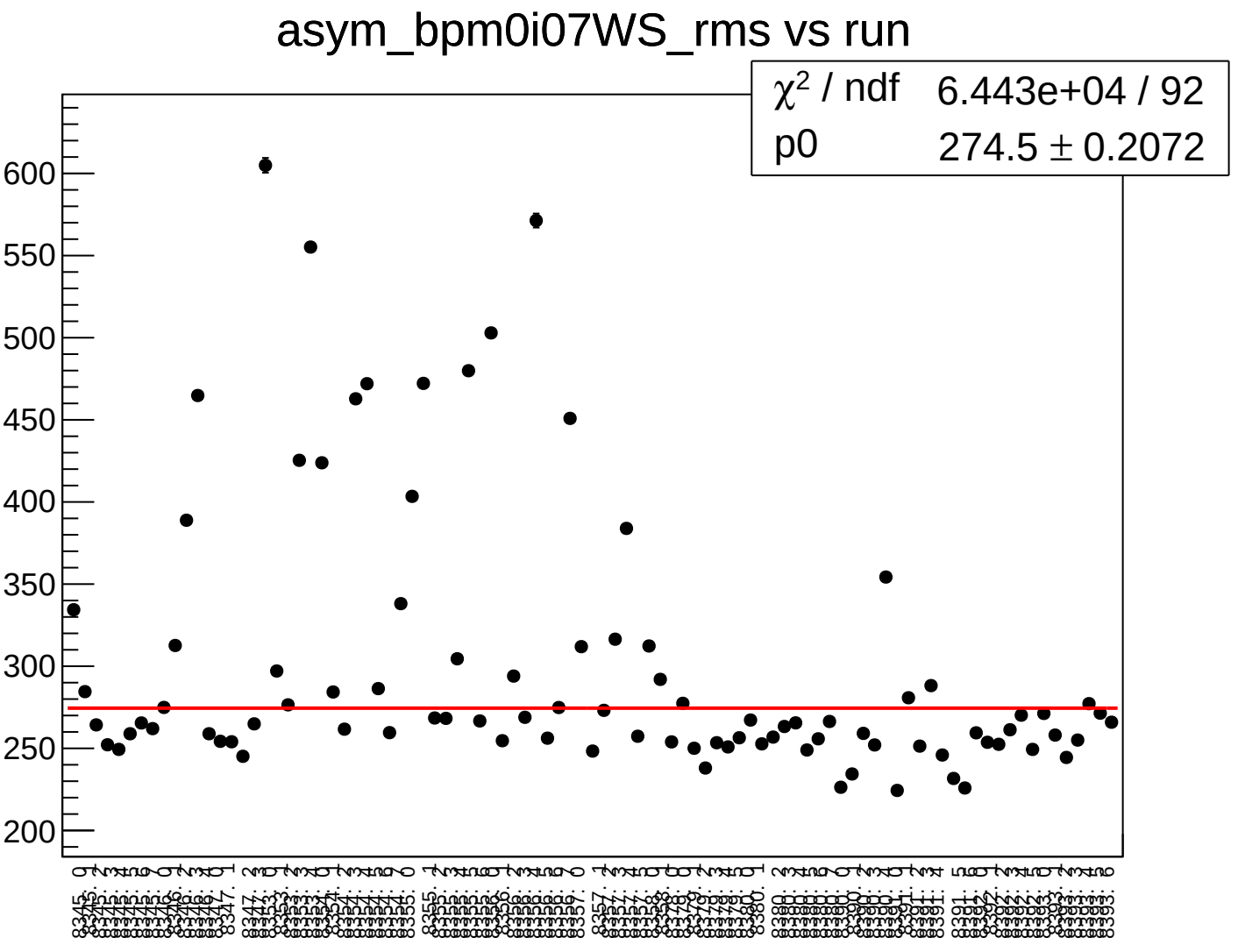

asym_bpm0i05WS_mean vs run
χ² / ndf 1986 / 92
p0 −1.573e+04 ± 278.3
pull
Entries 93
Mean −217.4
Std Dev 0

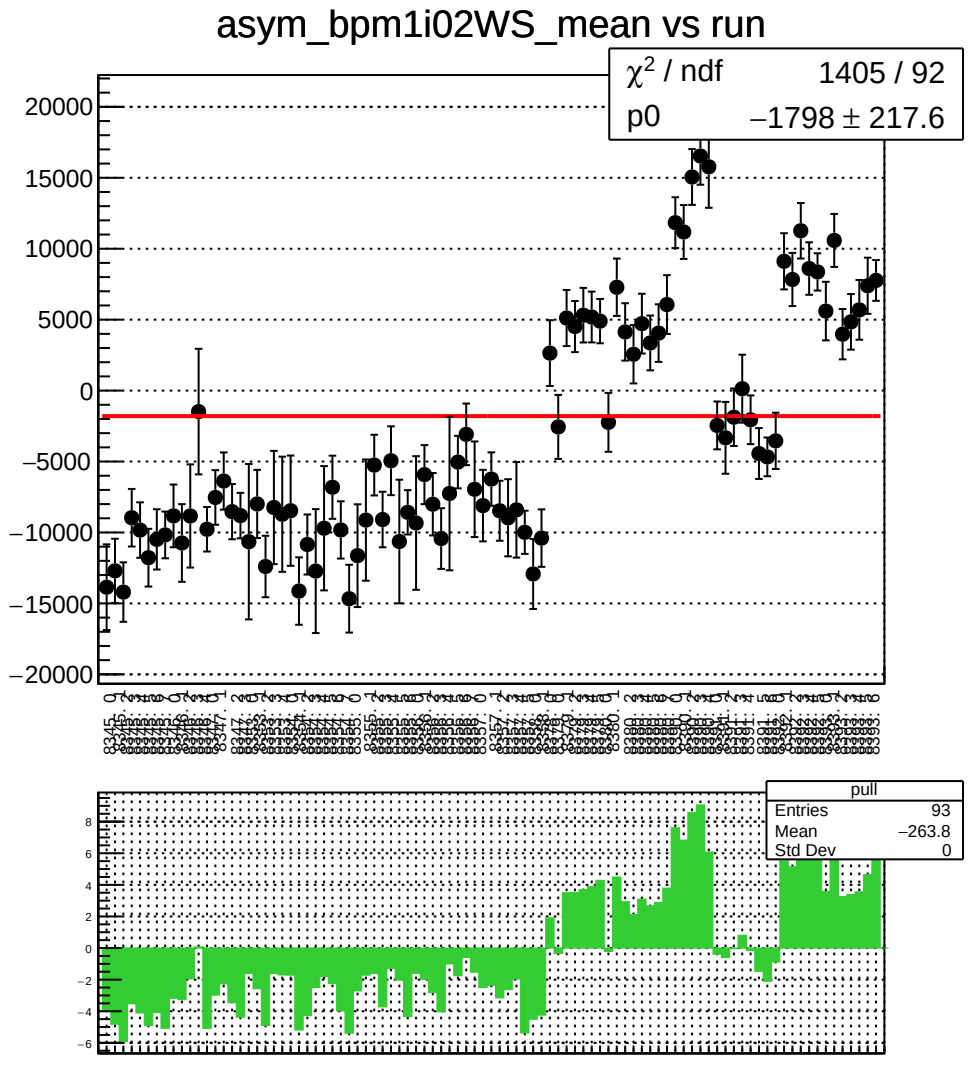

pull1D
Entries 93
Mean −1.216
Std Dev 3.635

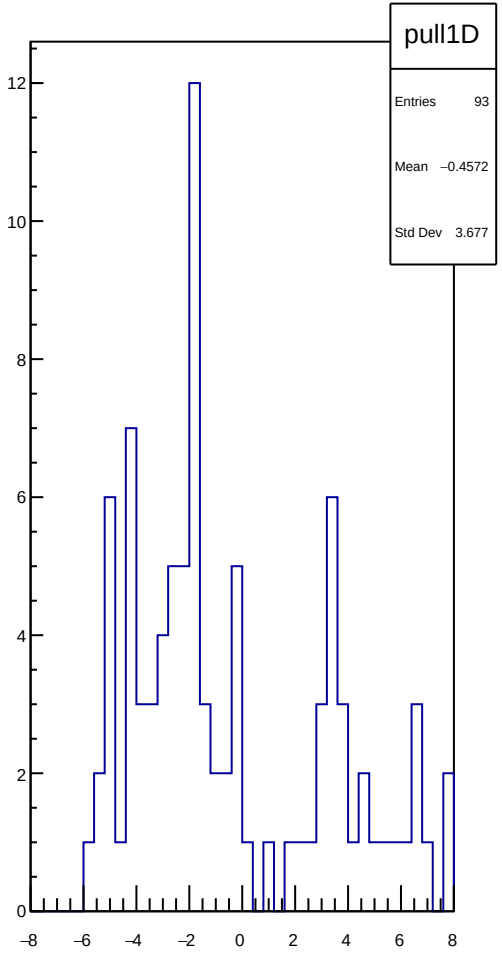

asym_bpm0i05WS_rms vs run
χ² / ndf 7.91e+04 / 92
p0 259.6 ± 0.1968
650
600
550
500
450
400
350
300
250
200

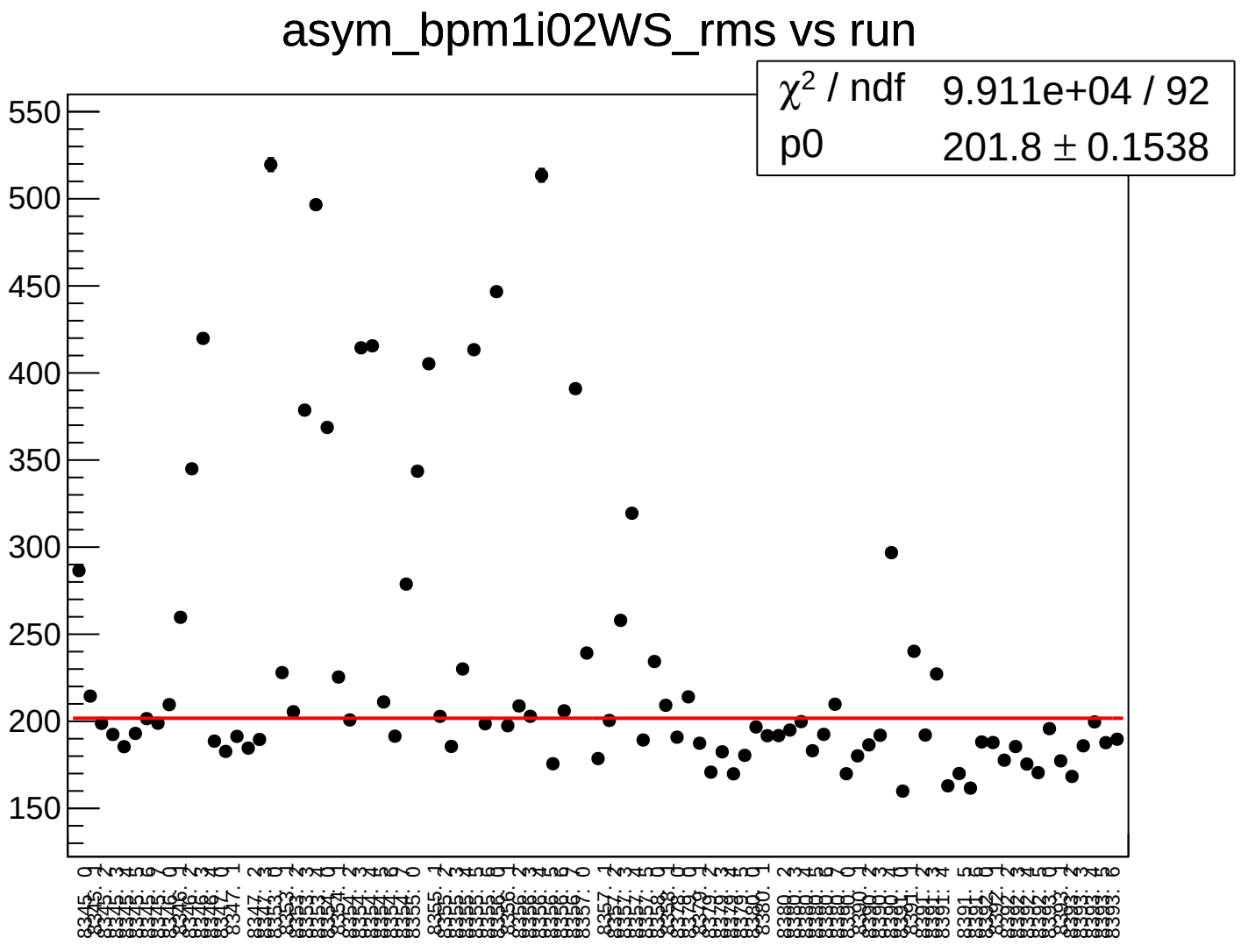

asym_bpm0i07WS_mean vs run
χ² / ndf 567.7 / 92
p0 −8758 ± 293.1
pull
Entries 93
Mean −377
Std Dev 0

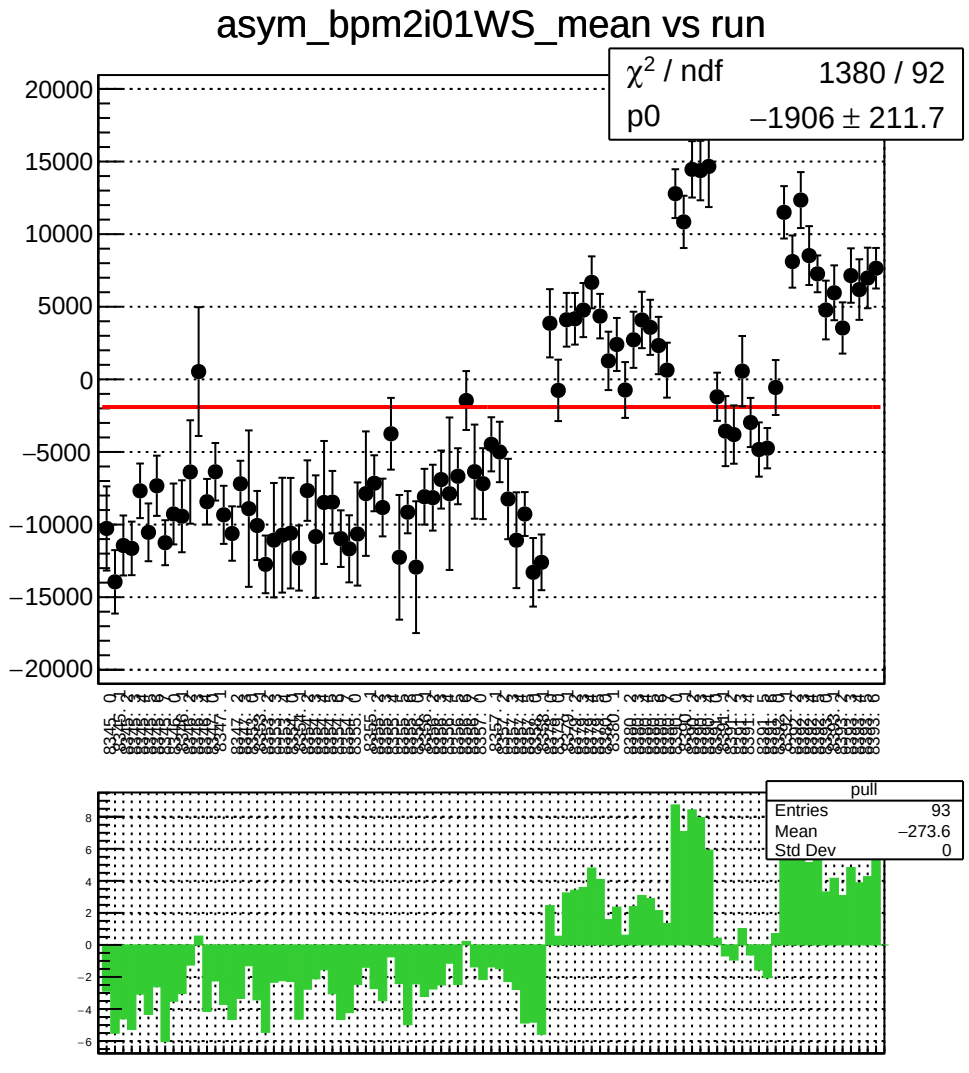

pull1D
Entries 93
Mean −0.08482
Std Dev 2.469

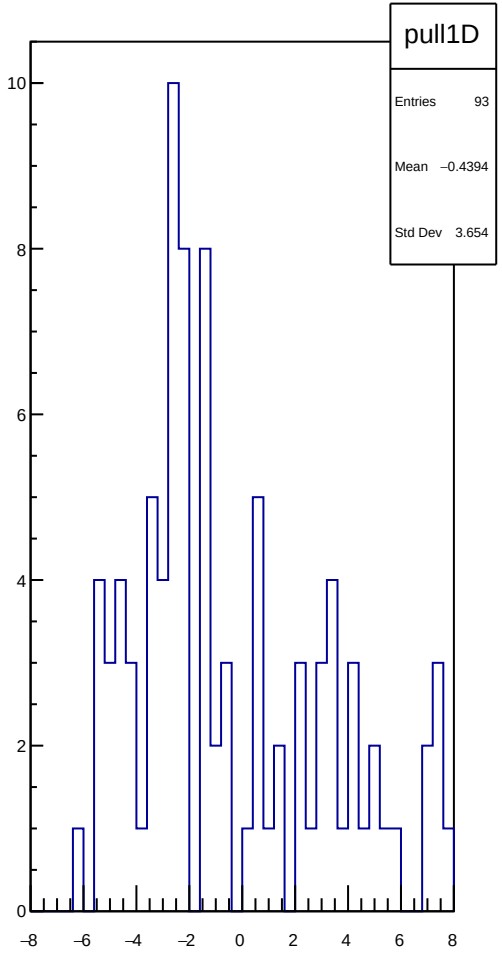

asym_bpm0i07WS_rms vs run
χ^2 / ndf 6.443e+04 / 92
p0 274.5 ± 0.2072
600
550
500
450
400
350
300
250
200

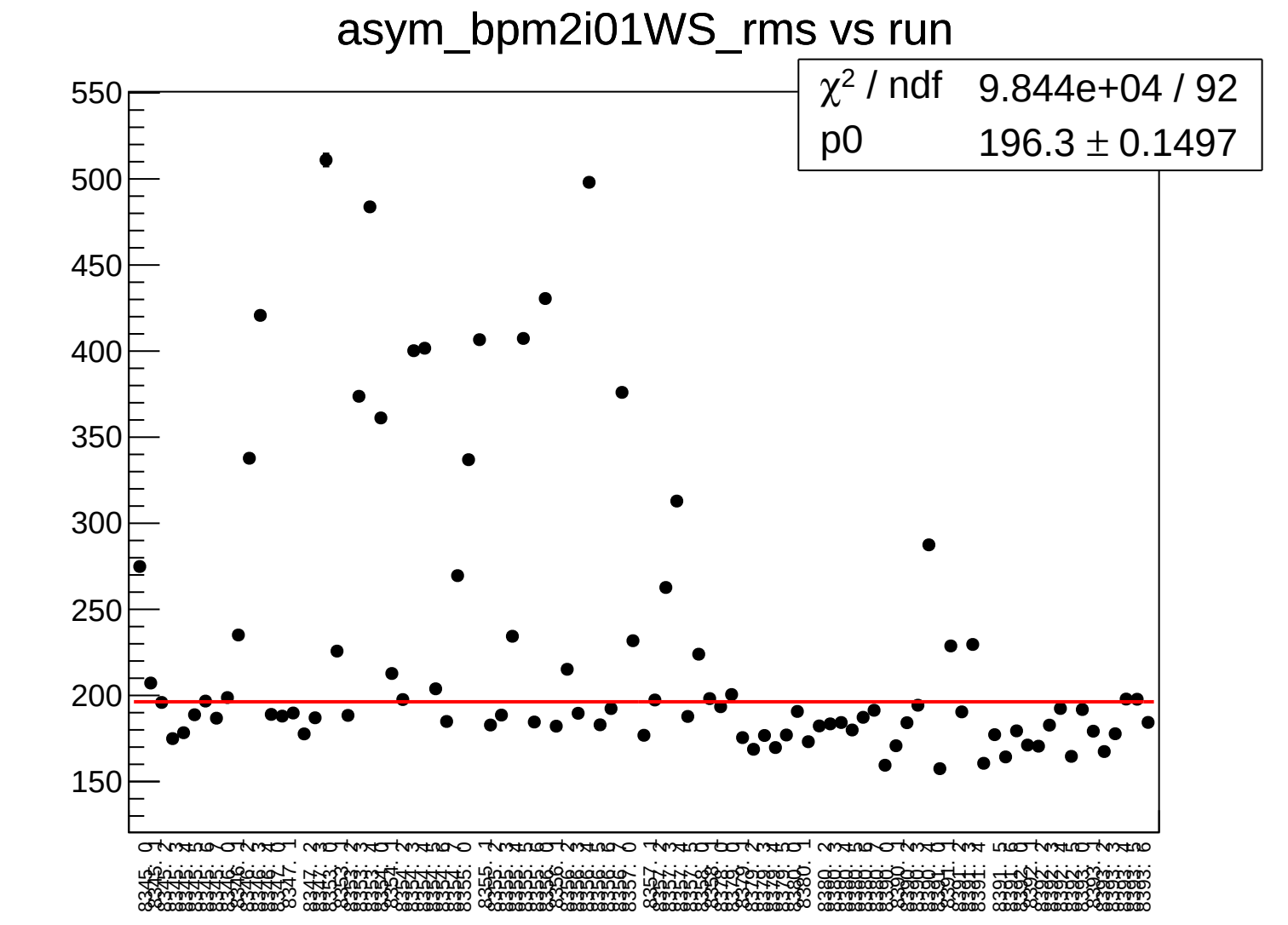

asym_bpm1i02WS_mean vs run
χ² / ndf 1405 / 92
p0 −1798 ± 217.6
pull
Entries 93
Mean −263.8
Std Dev 0

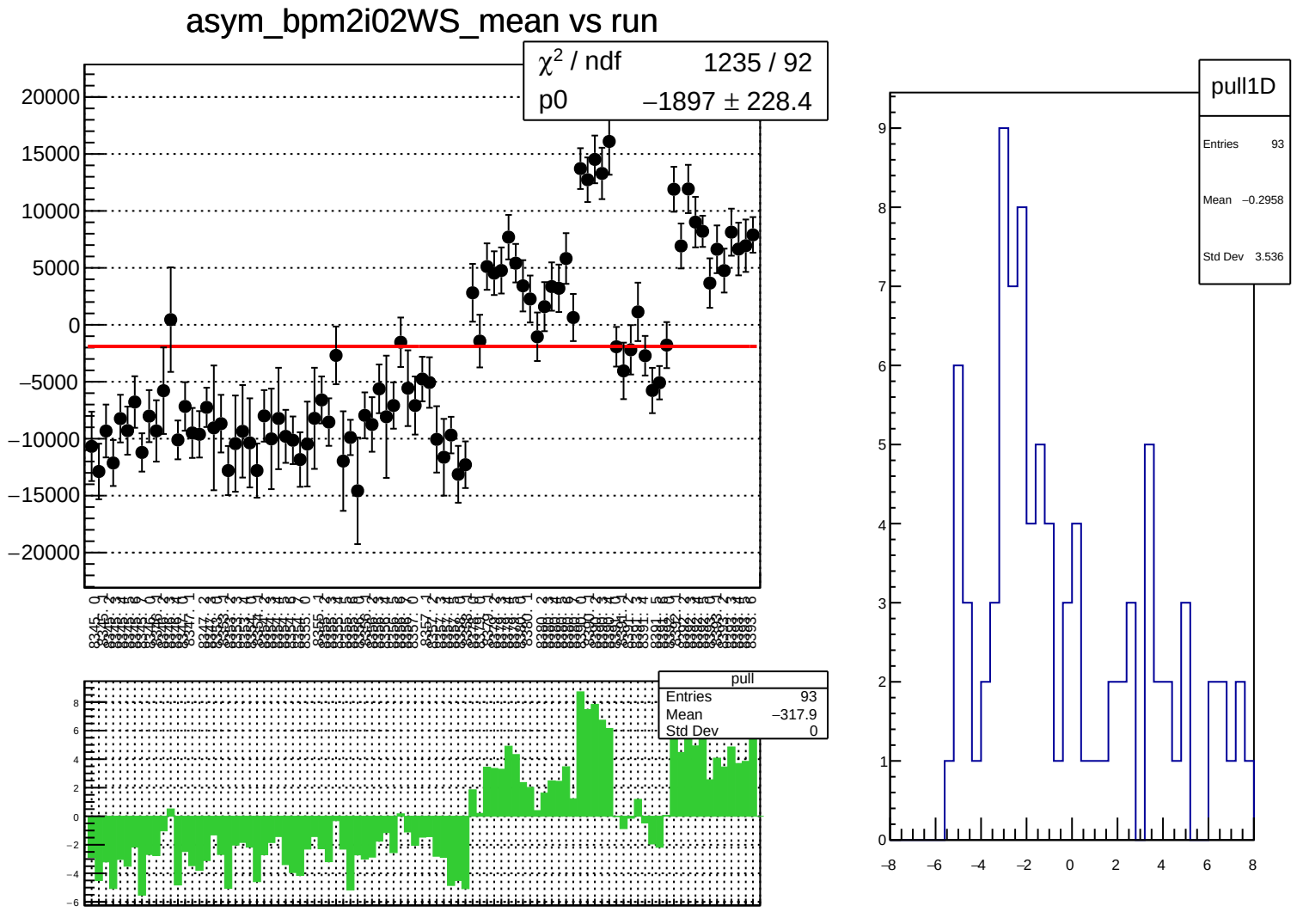

pull1D
Entries 93
Mean −0.4572
Std Dev 3.677

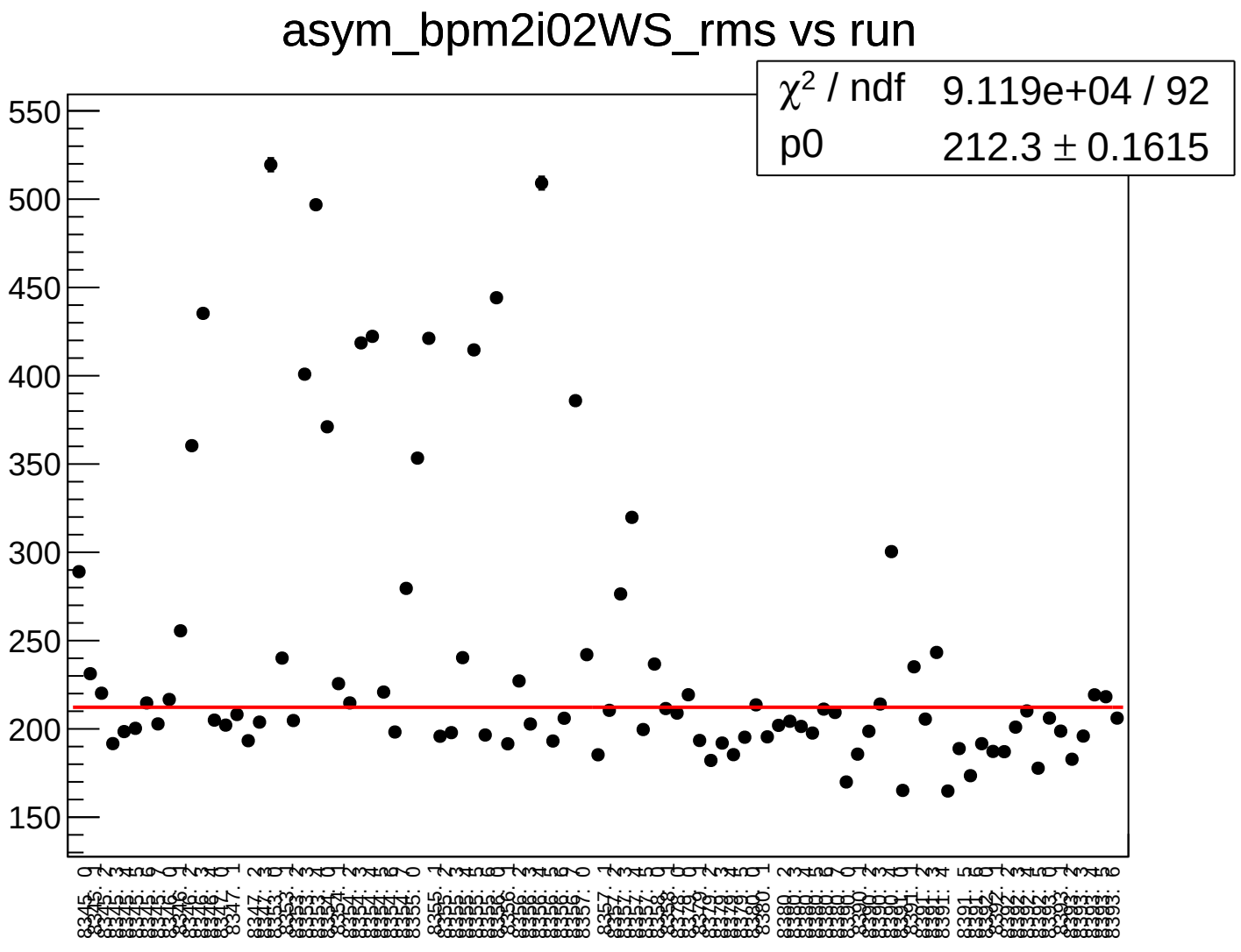

asym_bpm1i02WS_rms vs run
χ^2 / ndf 9.911e+04 / 92
p0 201.8 ± 0.1538
550
500
450
400
350
300
250
200
150

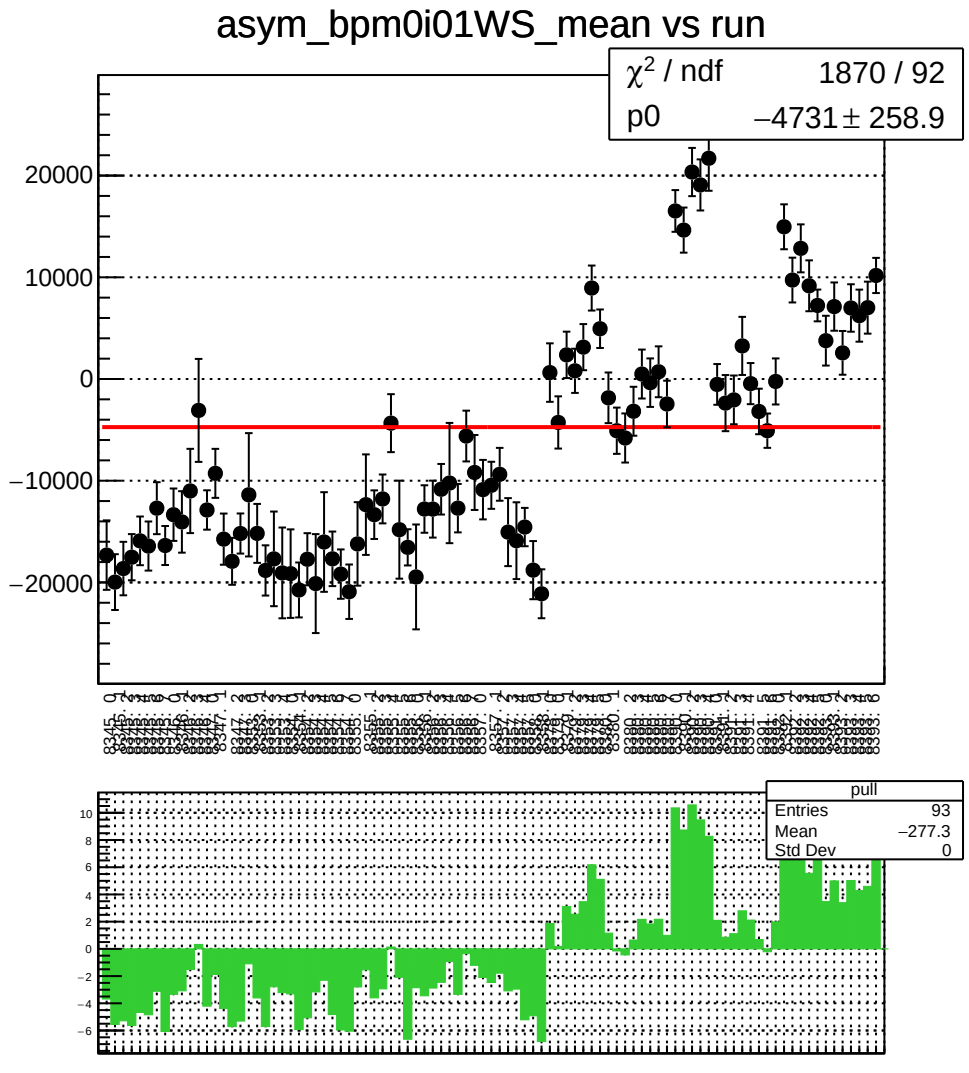

asym_bpm2i01WS_mean vs run
χ² / ndf 1380 / 92
p0 −1906 ± 211.7
pull
Entries 93
Mean −273.6
Std Dev 0

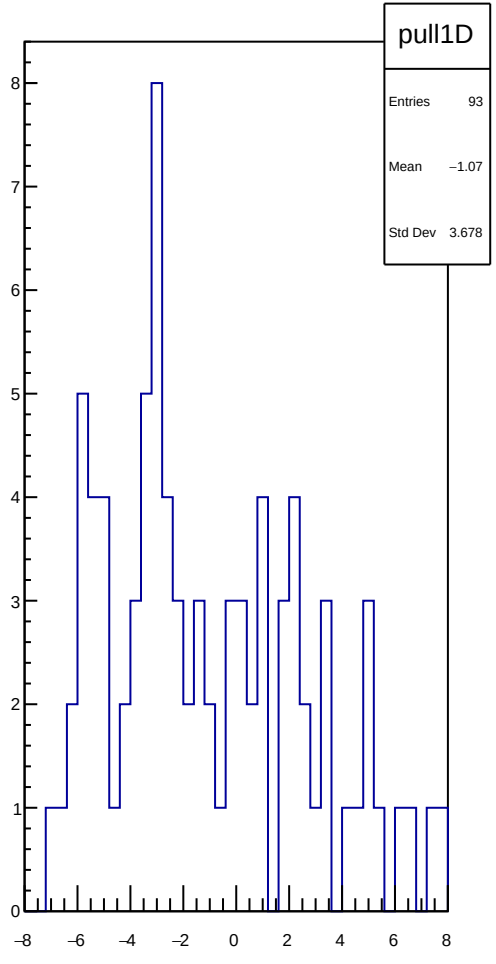

pull1D
Entries 93
Mean −0.4394
Std Dev 3.654

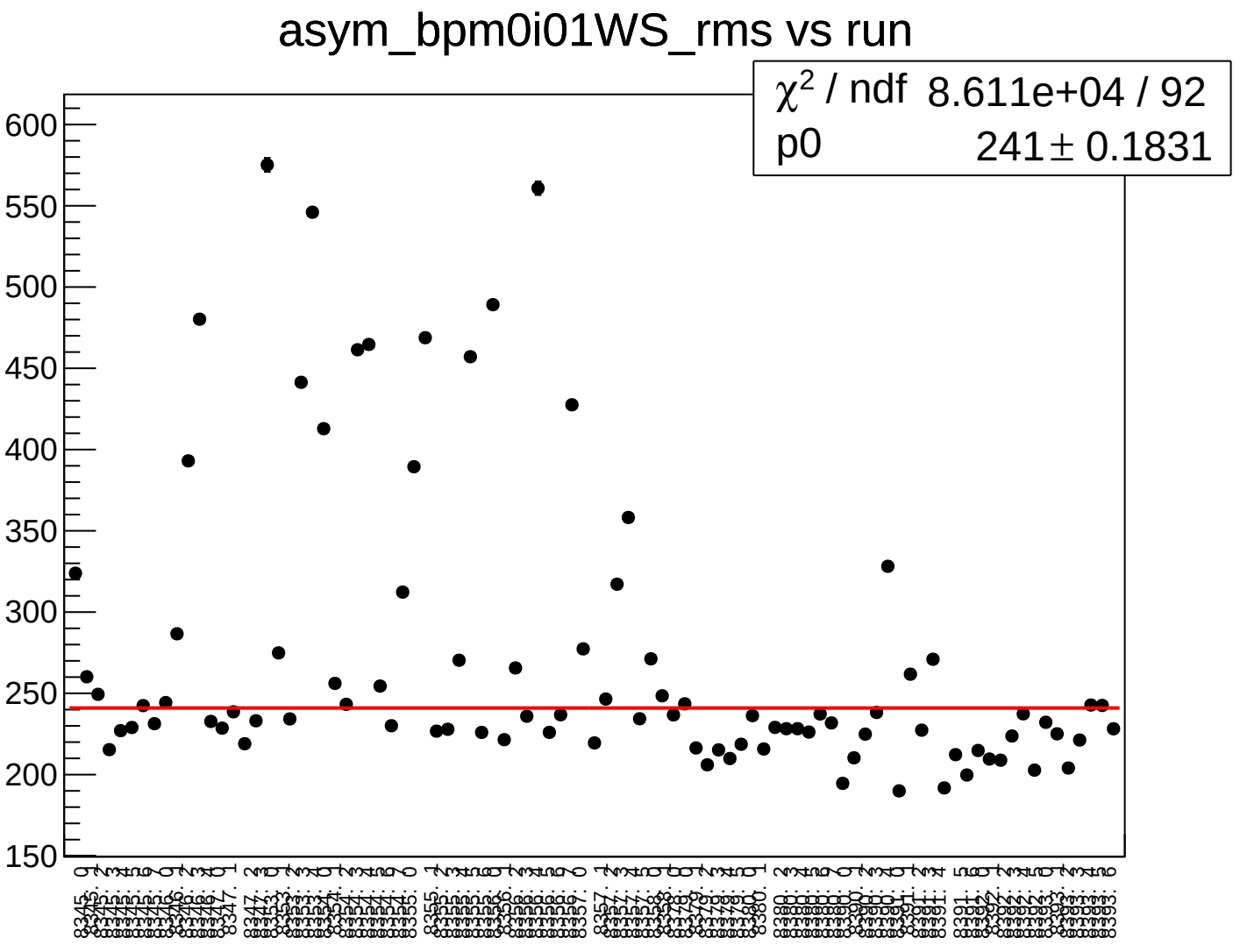

asym_bpm2i01WS_rms vs run
χ^2 / ndf 9.844e+04 / 92
p0 196.3 ± 0.1497
550
500
450
400
350
300
250
200
150

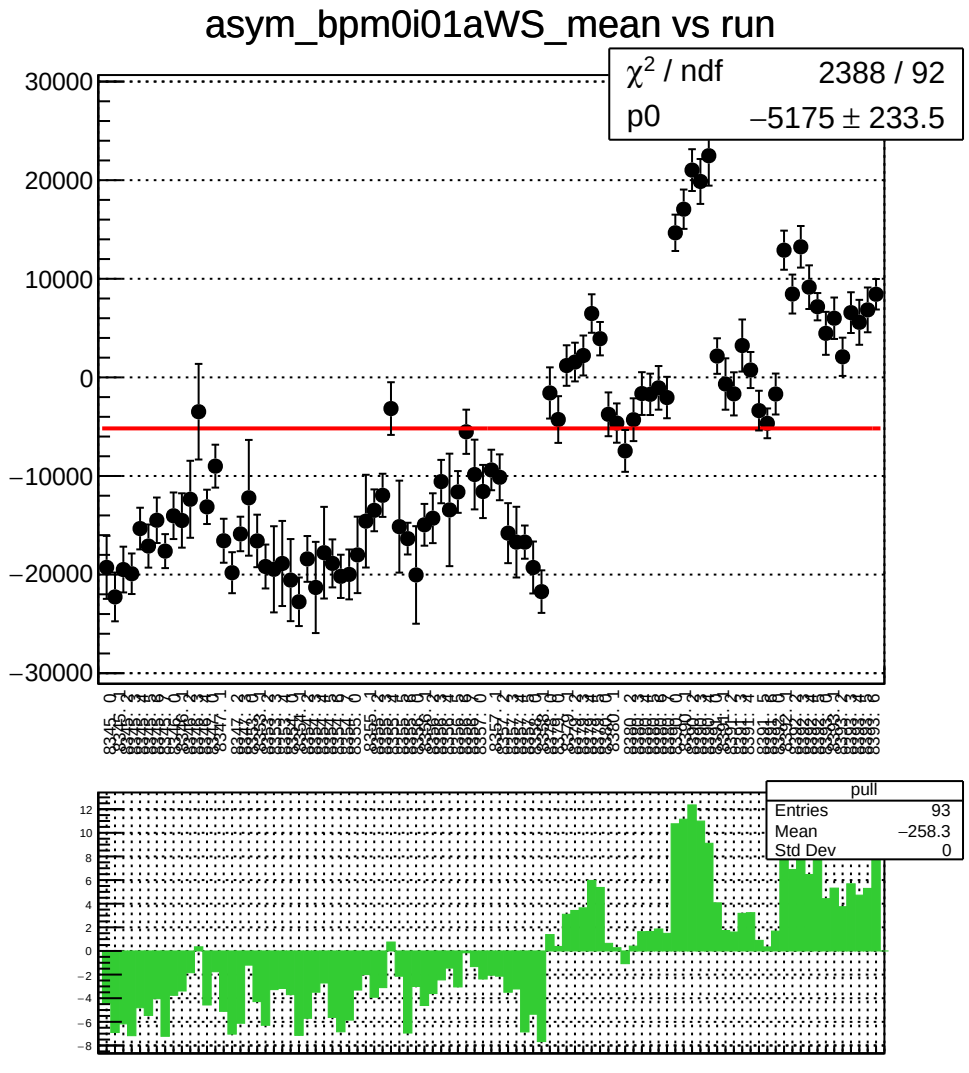

asym_bpm2i02WS_mean vs run
χ² / ndf 1235 / 92
p0 −1897 ± 228.4
pull
Entries 93
Mean −317.9
Std Dev 0
pull1D
Entries 93
Mean −0.2958
Std Dev 3.536

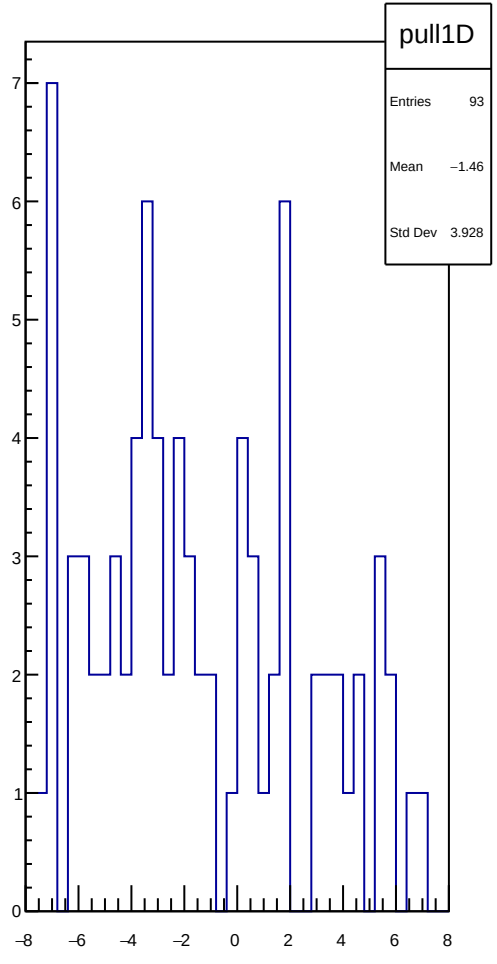

asym_bpm2i02WS_rms vs run
χ^2 / ndf 9.119e+04 / 92
p0 212.3 ± 0.1615
550
500
450
400
350
300
250
200
150

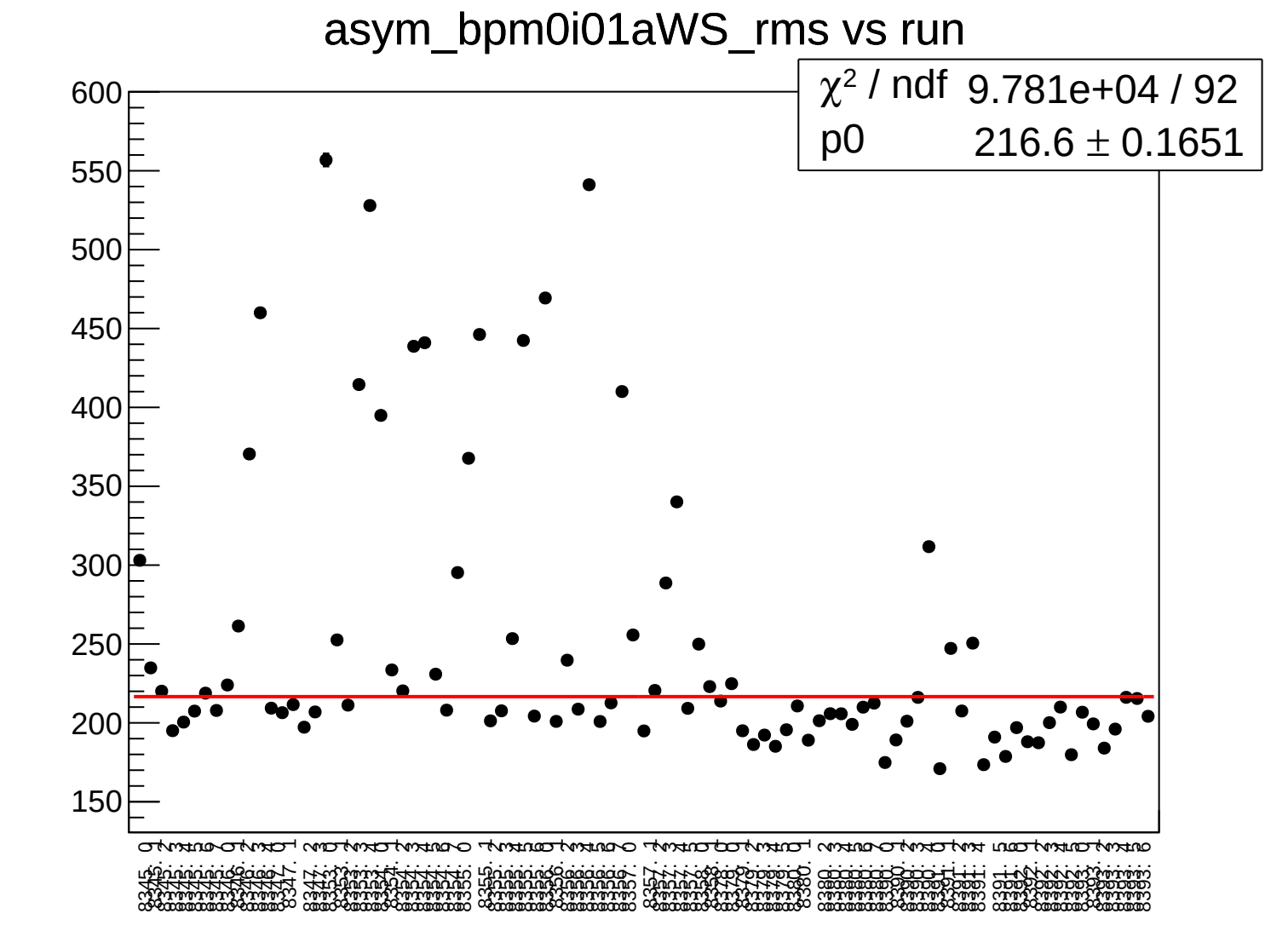

asym_bpm0i01WS_mean vs run
χ² / ndf 1870 / 92
p0 −4731 ± 258.9
20000
10000
0
−10000
−20000
pull
Entries 93
Mean −277.3
Std Dev 0
10
8
6
4
2
0
−2
−4
−6

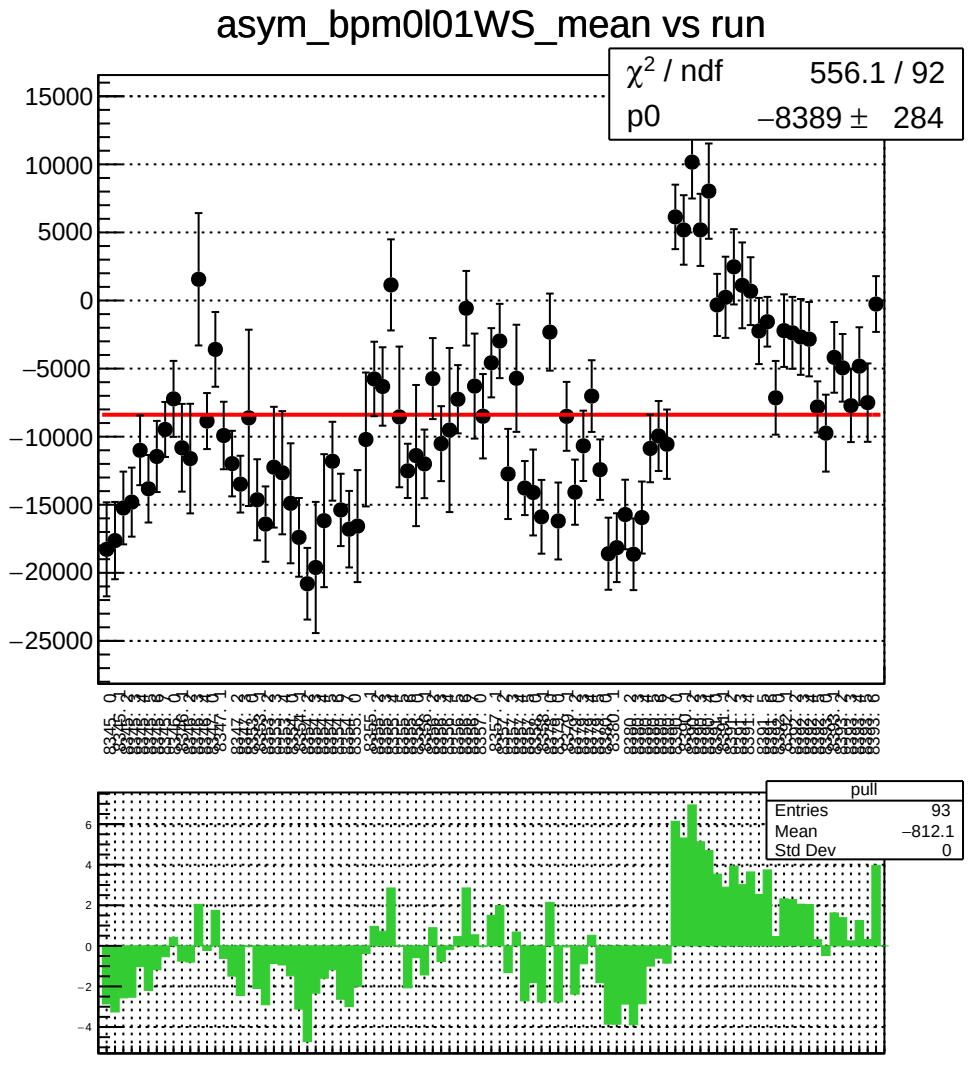

pull1D
Entries 93
Mean −1.07
Std Dev 3.678
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

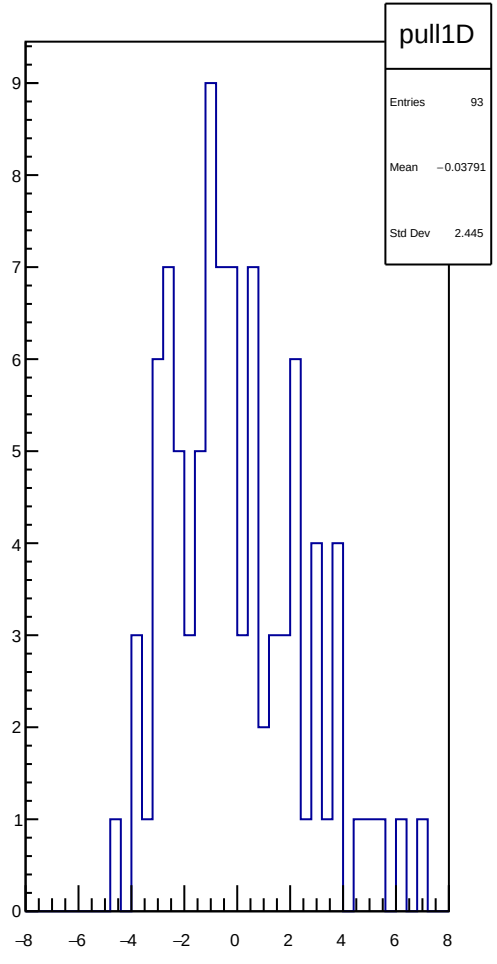

asym_bpm0i01WS_rms vs run
χ^2 / ndf 8.611e+04 / 92
p0 241 ± 0.1831
600
550
500
450
400
350
300
250
200
150

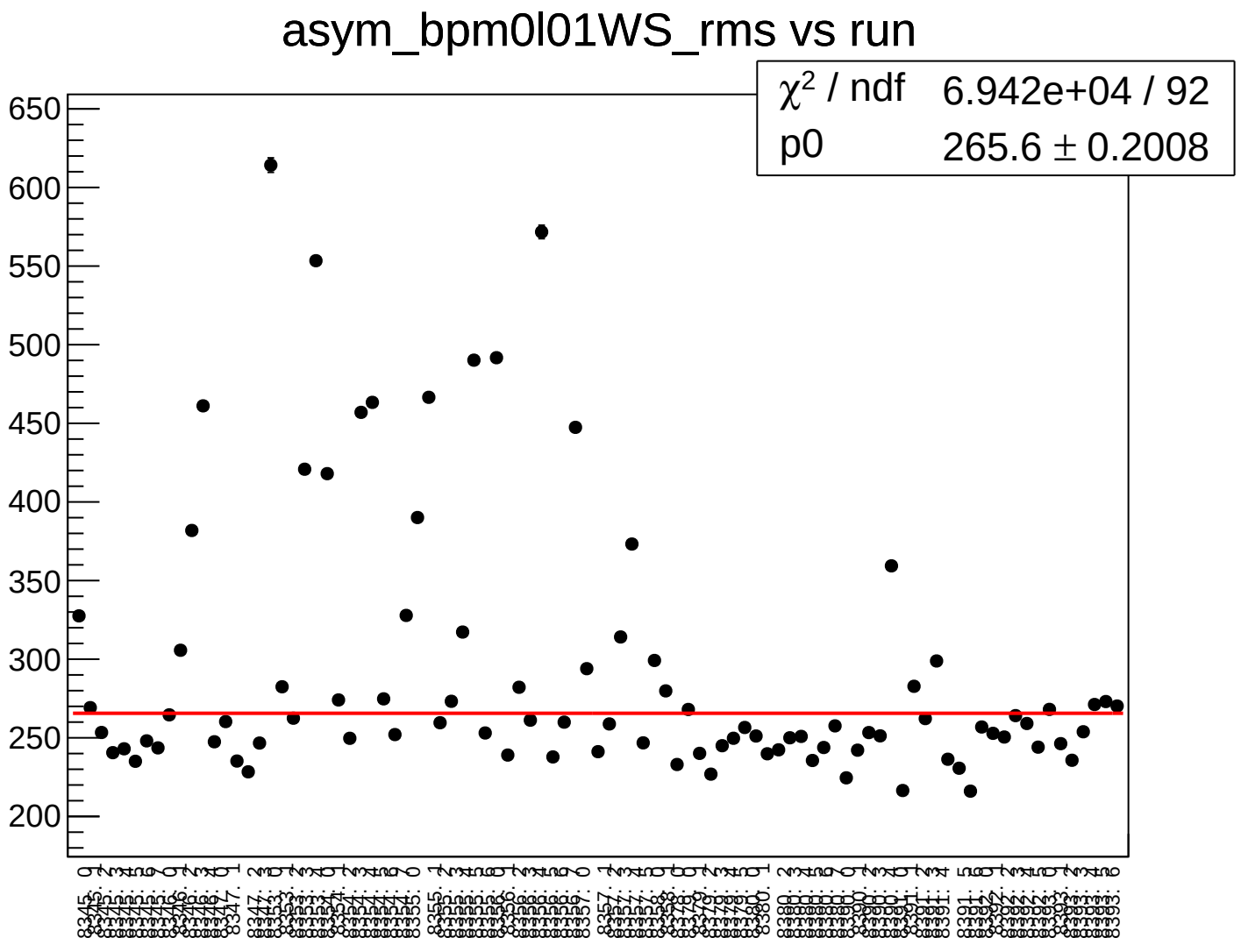

asym_bpm0i01aWS_mean vs run
χ² / ndf 2388 / 92
p0 −5175 ± 233.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −258.3
Std Dev 0
12
10
8
6
4
2
0
−2
−4
−6
−8

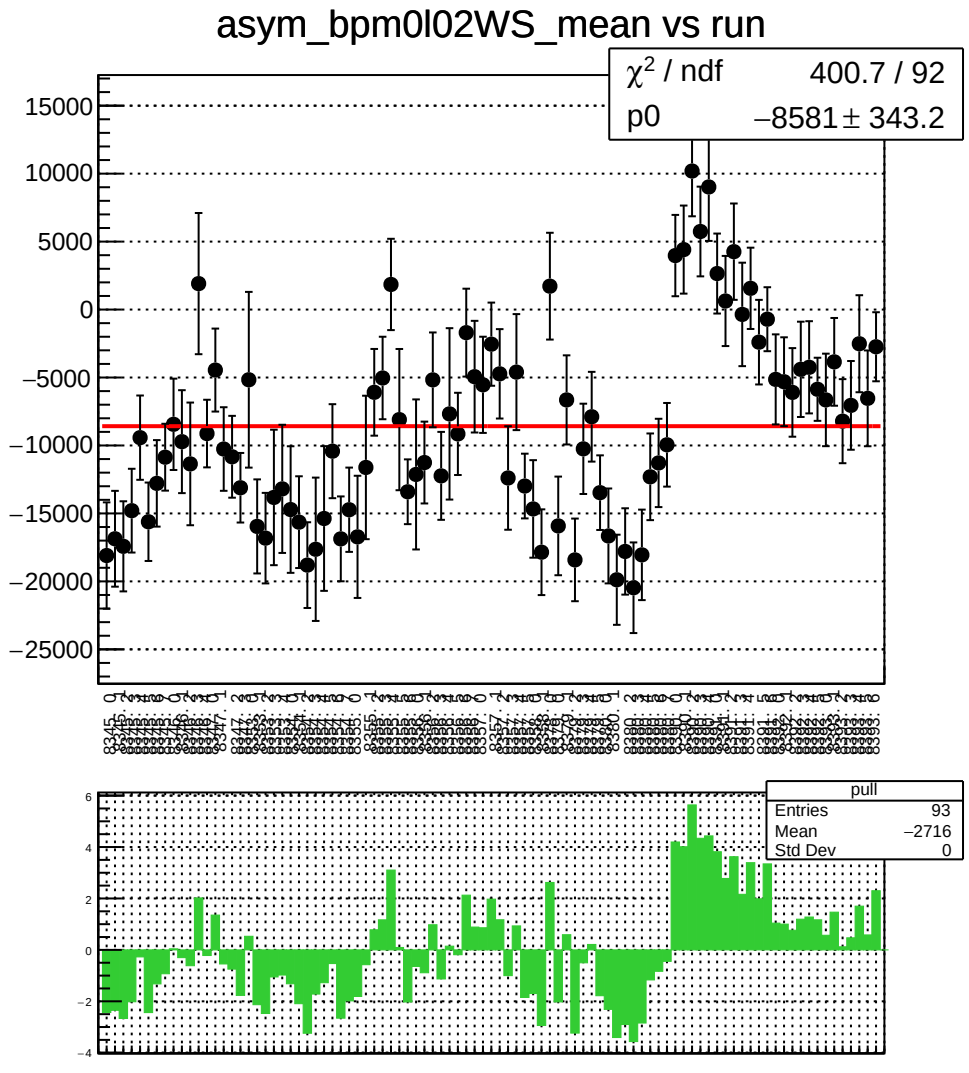

pull1D
Entries 93
Mean −1.46
Std Dev 3.928
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

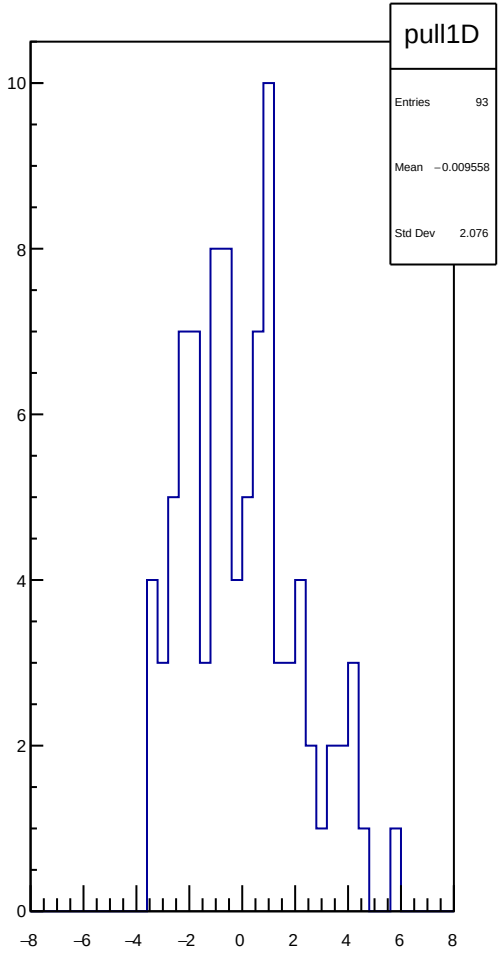

asym_bpm0i01aWS_rms vs run
χ^2 / ndf 9.781e+04 / 92
p0 216.6 ± 0.1651
600
550
500
450
400
350
300
250
200
150

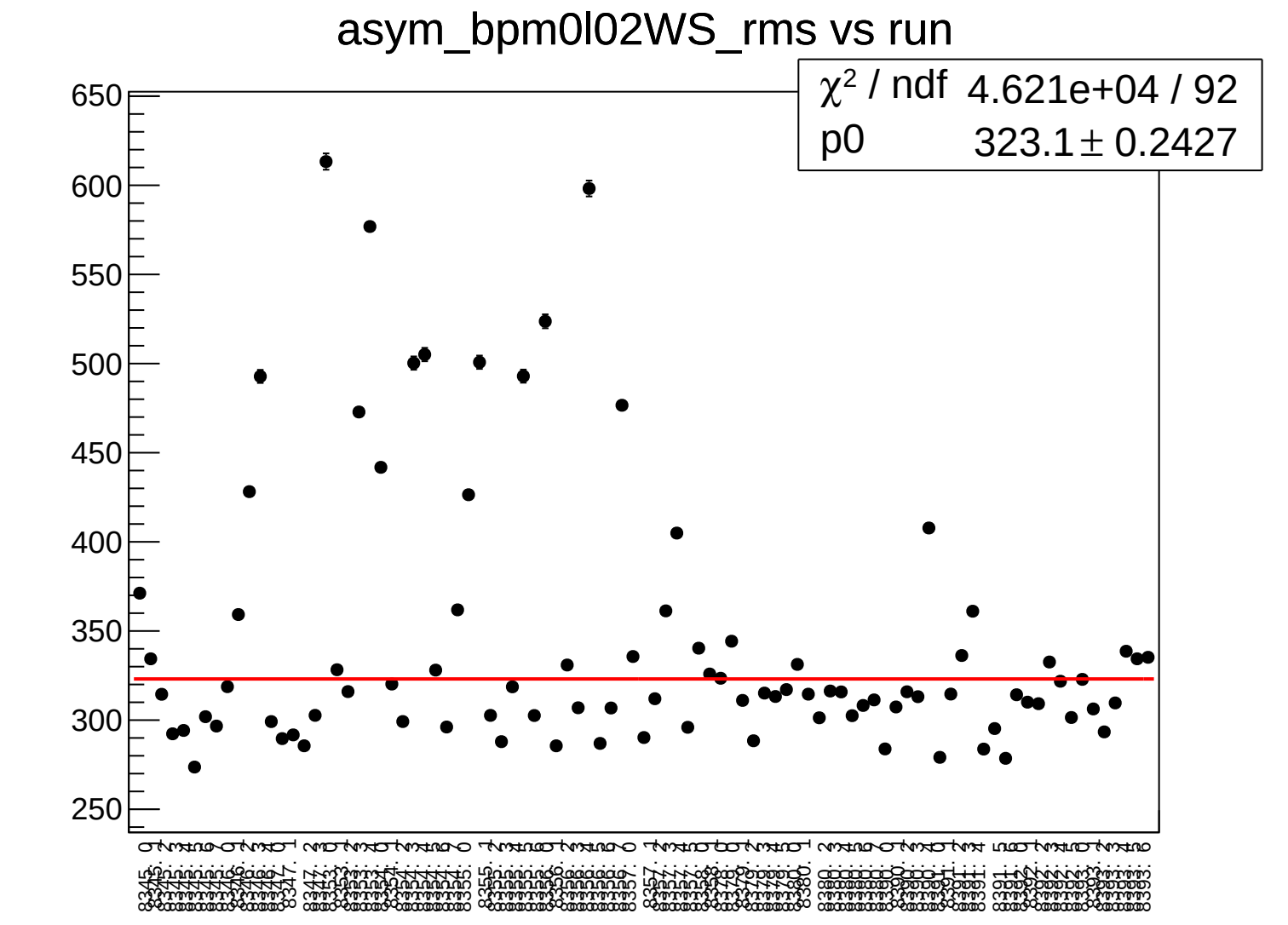

asym_bpm0l01WS_mean vs run
χ² / ndf 556.1 / 92
p0 −8389 ± 284
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 93
Mean −812.1
Std Dev 0
6
4
2
0
−2
−4

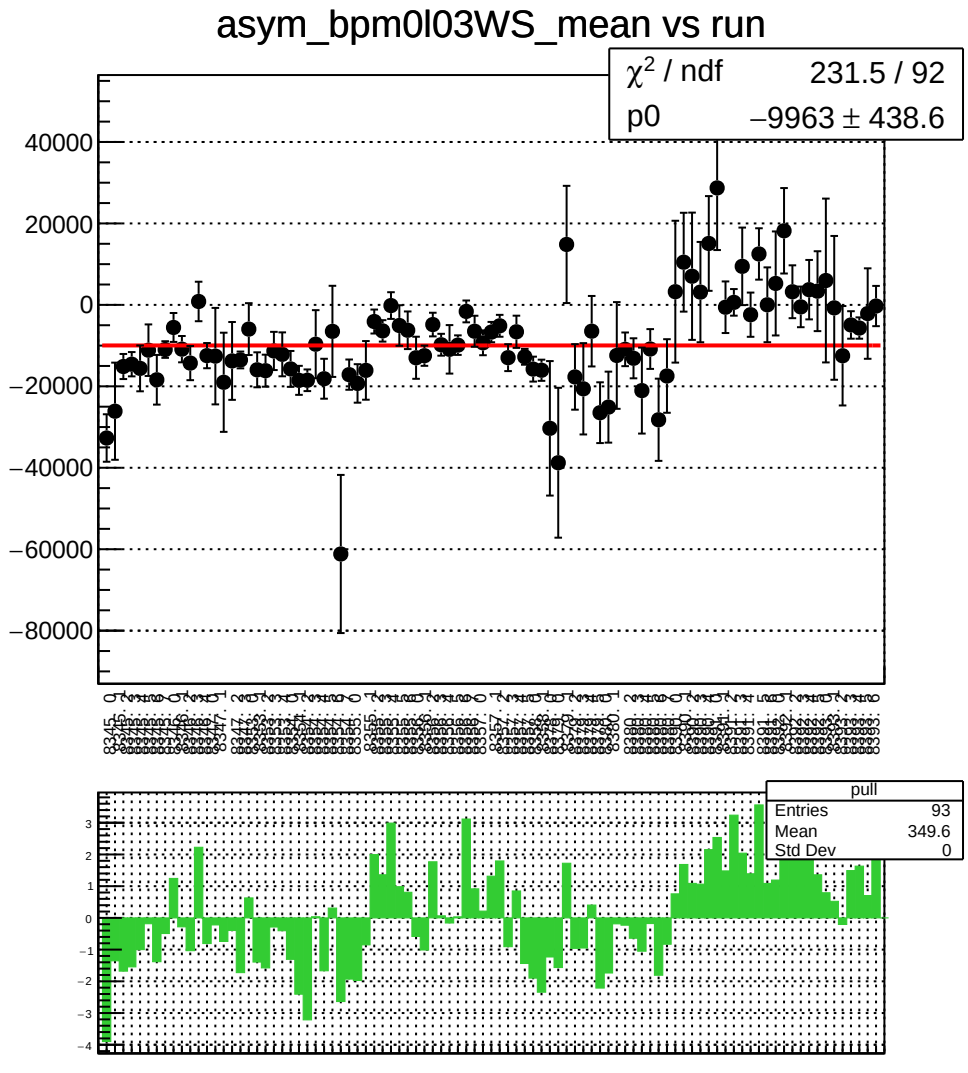

pull1D
Entries 93
Mean −0.03791
Std Dev 2.445
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

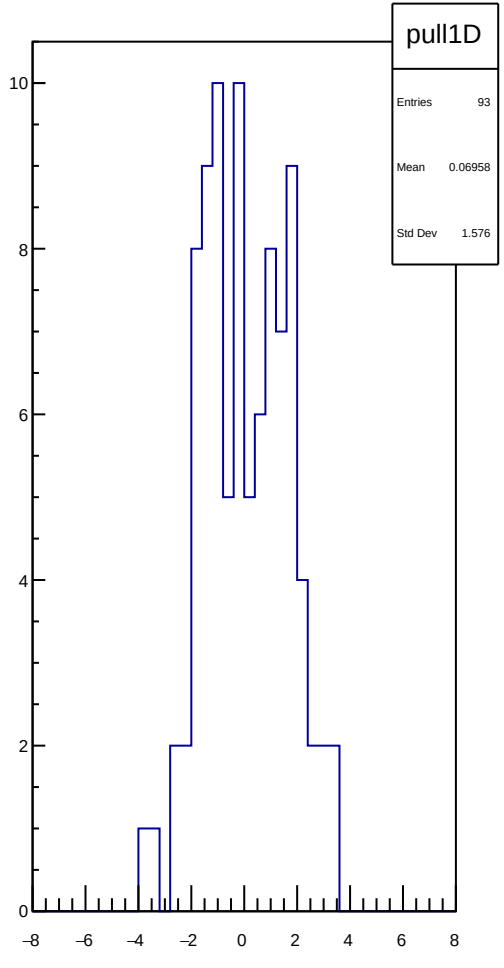

asym_bpm0l01WS_rms vs run
χ² / ndf 6.942e+04 / 92
p0 265.6 ± 0.2008
650
600
550
500
450
400
350
300
250
200

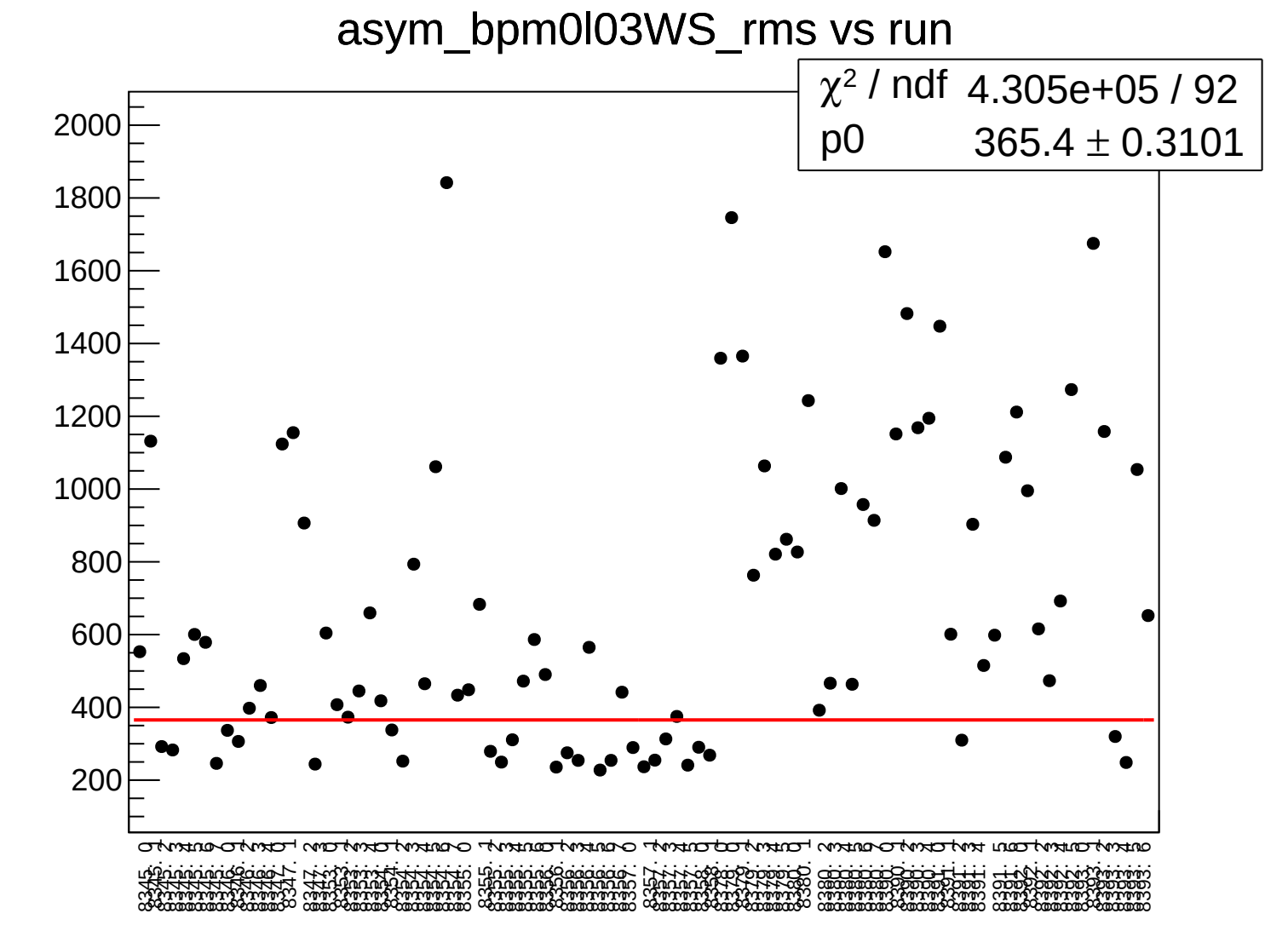

asym_bpm0l02WS_mean vs run
χ² / ndf 400.7 / 92
p0 −8581 ± 343.2
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 93
Mean −2716
Std Dev 0
6
4
2
0
−2
−4

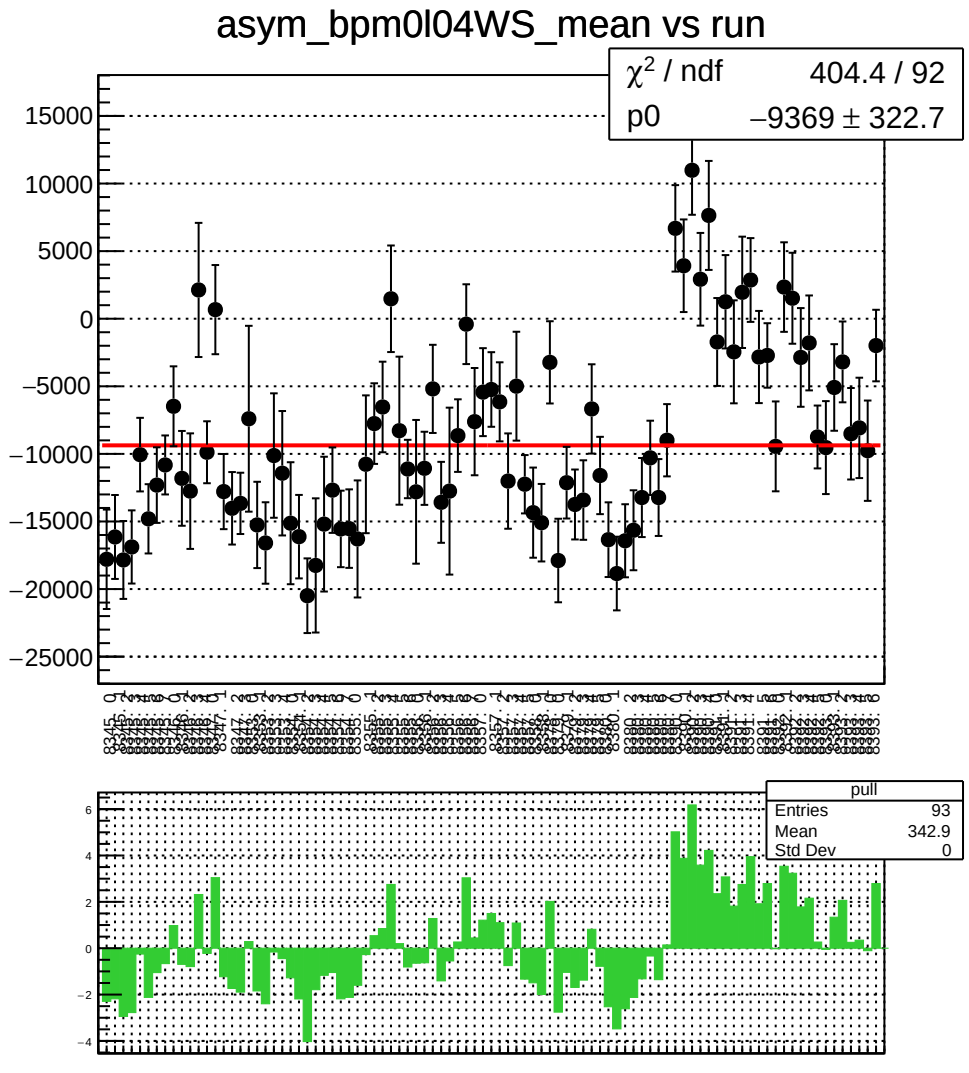

pull1D
Entries 93
Mean −0.009558
Std Dev 2.076
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

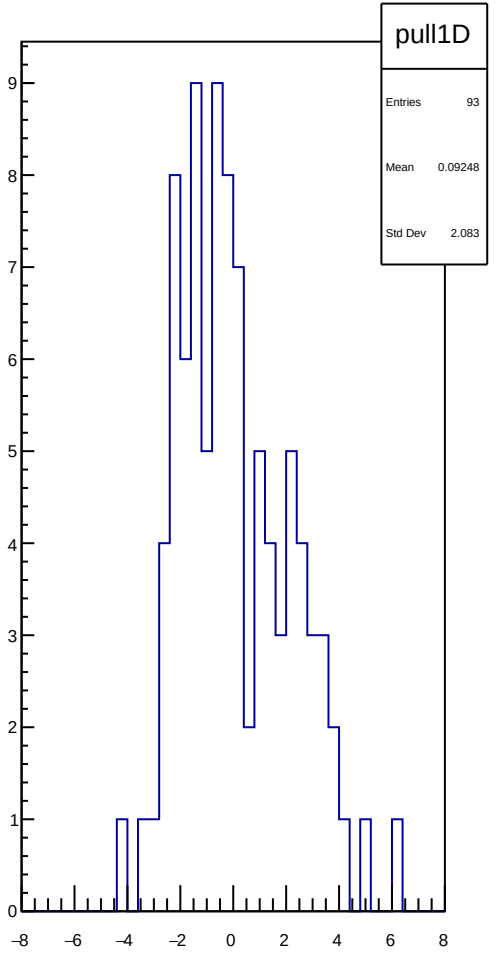

asym_bpm0l02WS_rms vs run
χ² / ndf 4.621e+04 / 92
p0 323.1 ± 0.2427
650
600
550
500
450
400
350
300
250

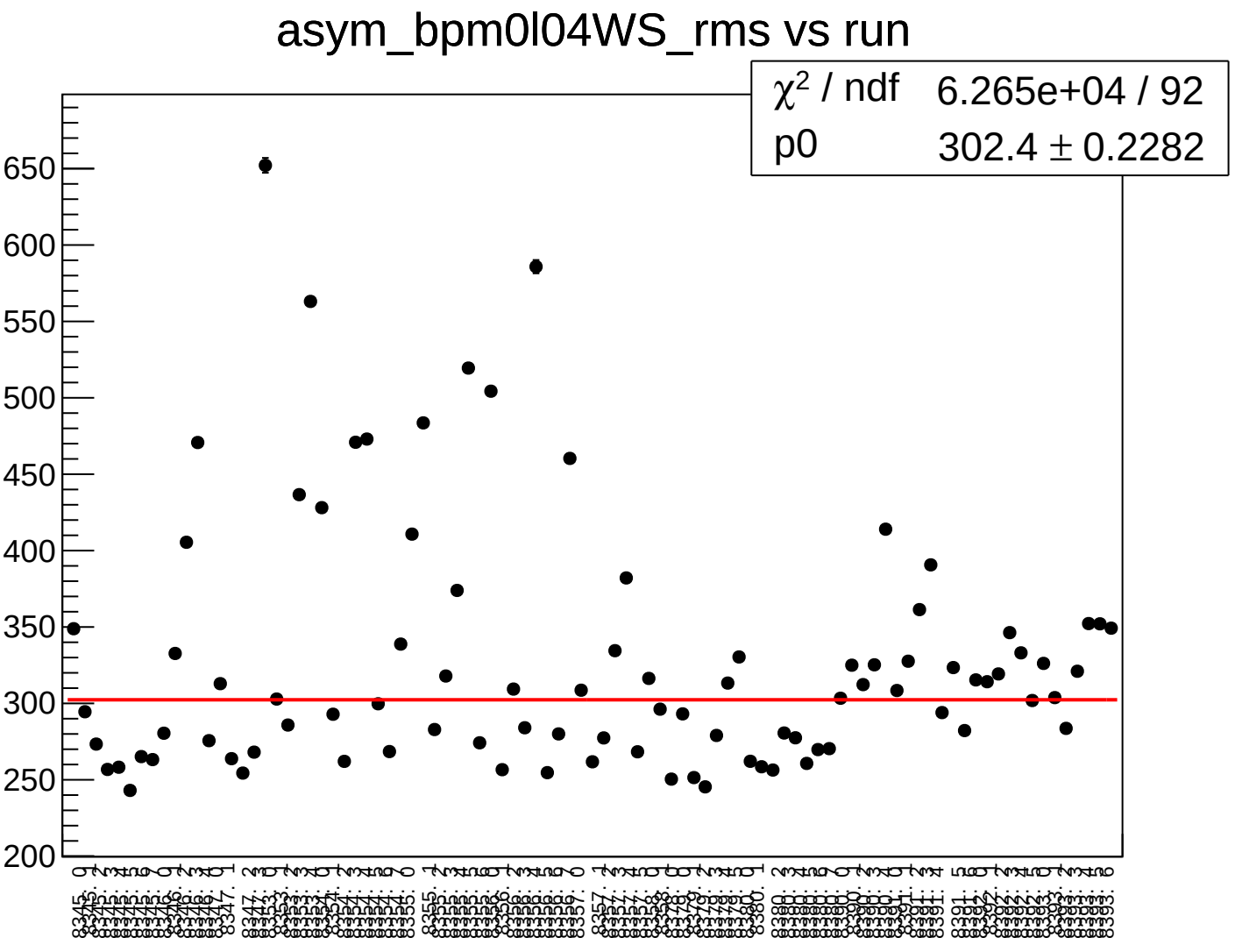

asym_bpm0l03WS_mean vs run
χ² / ndf 231.5 / 92
p0 −9963 ± 438.6
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 349.6
Std Dev 0
3
2
1
0
−1
−2
−3
−4

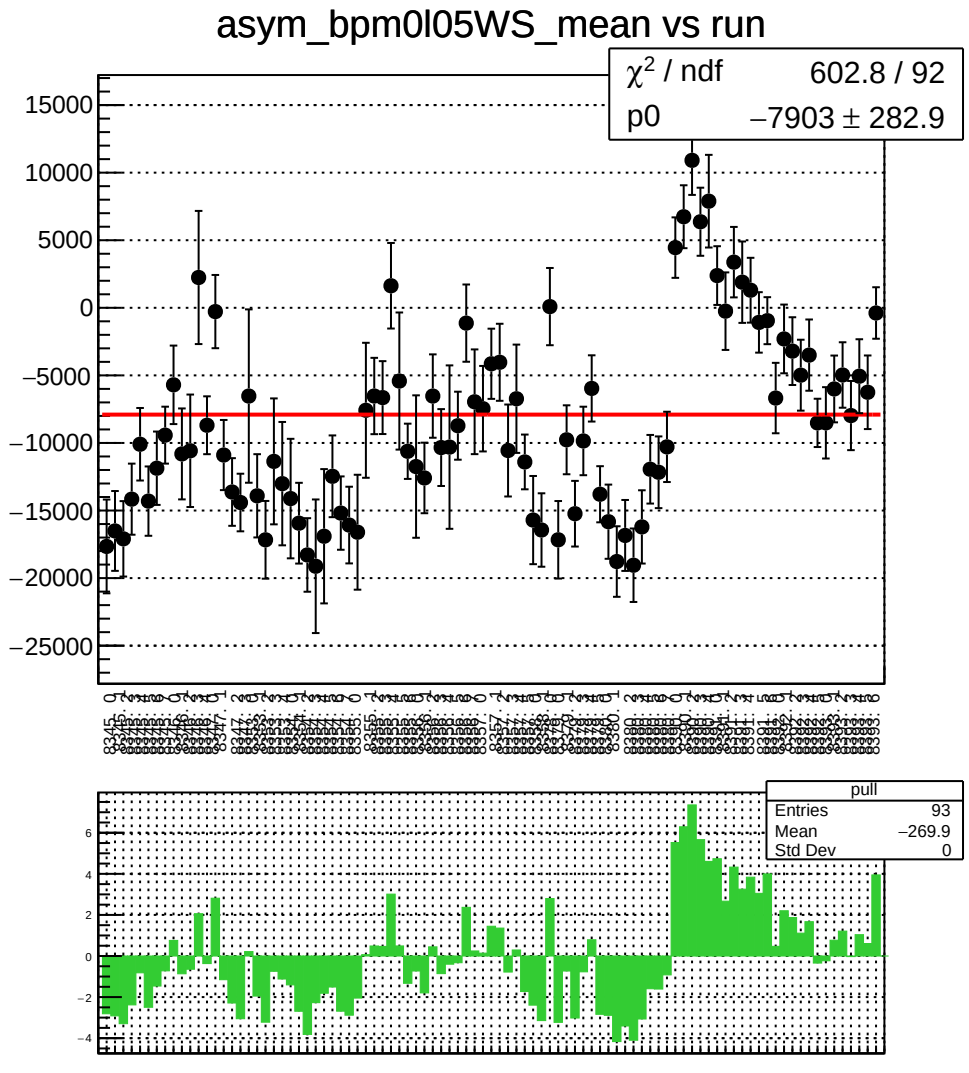

pull1D
Entries 93
Mean 0.06958
Std Dev 1.576
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

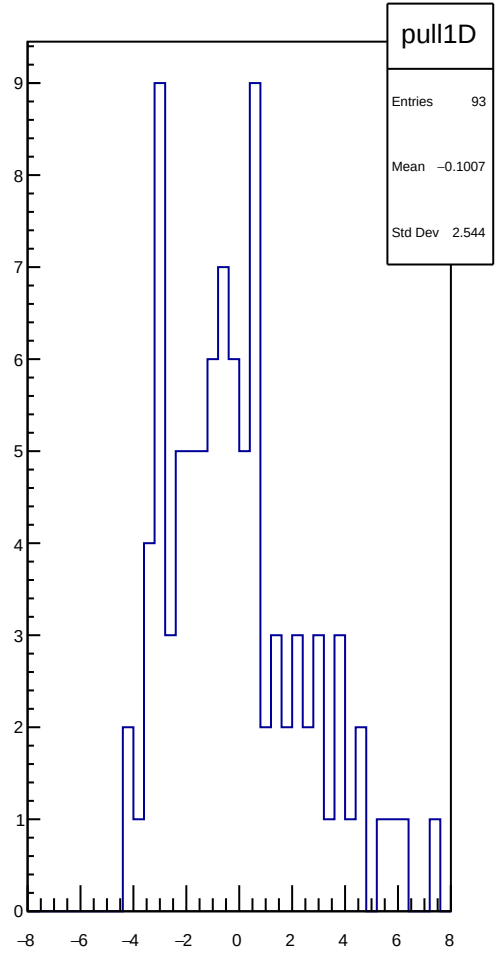

asym_bpm0l03WS_rms vs run
χ² / ndf 4.305e+05 / 92
p0 365.4 ± 0.3101
2000
1800
1600
1400
1200
1000
800
600
400
200

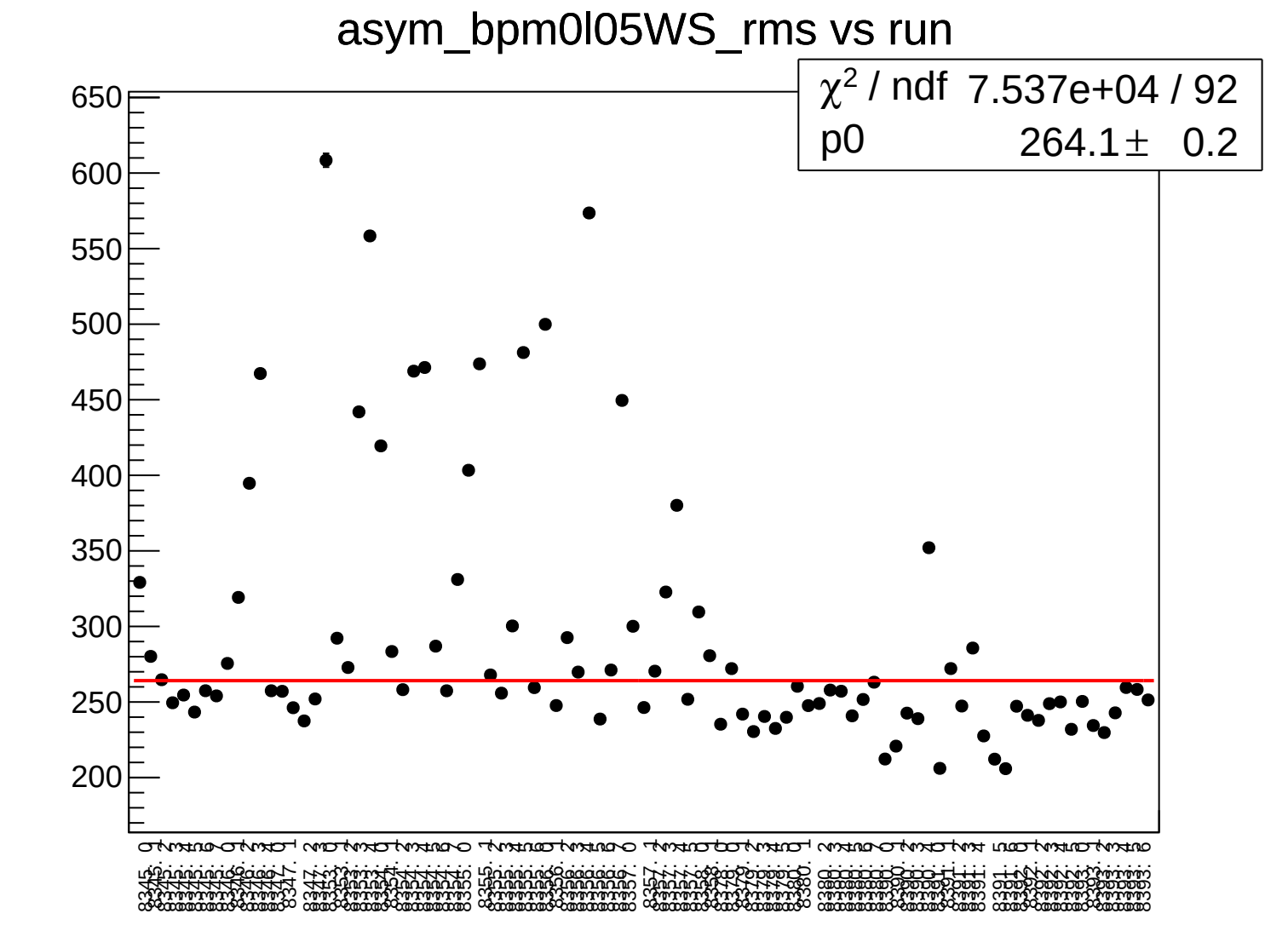

asym_bpm0l04WS_mean vs run
χ² / ndf 404.4 / 92
p0 −9369 ± 322.7
pull
Entries 93
Mean 342.9
Std Dev 0

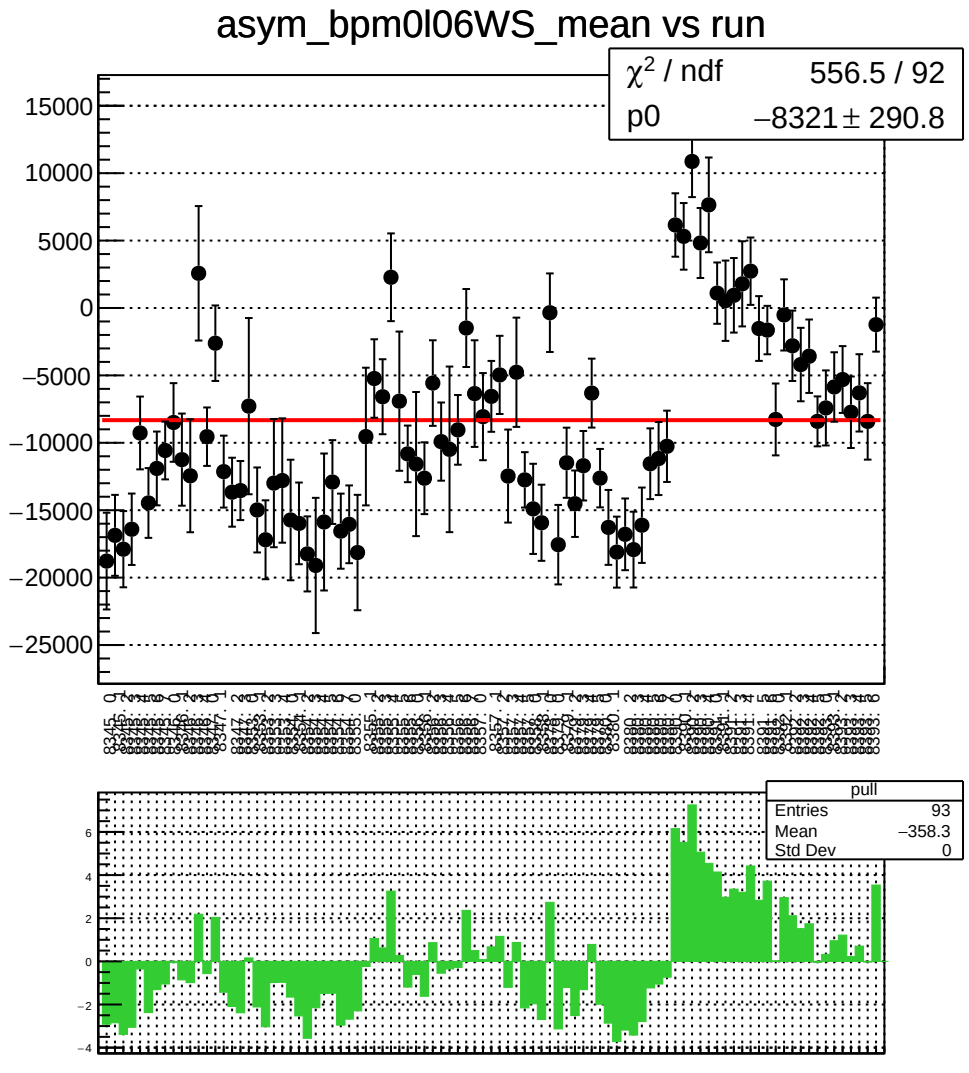

pull1D
Entries 93
Mean 0.09248
Std Dev 2.083

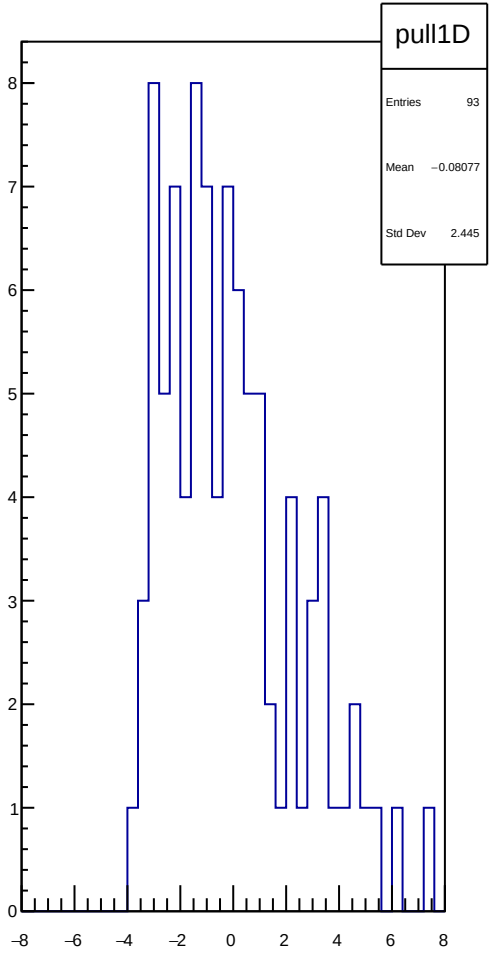

asym_bpm0l04WS_rms vs run
χ² / ndf 6.265e+04 / 92
p0 302.4 ± 0.2282
650
600
550
500
450
400
350
300
250
200

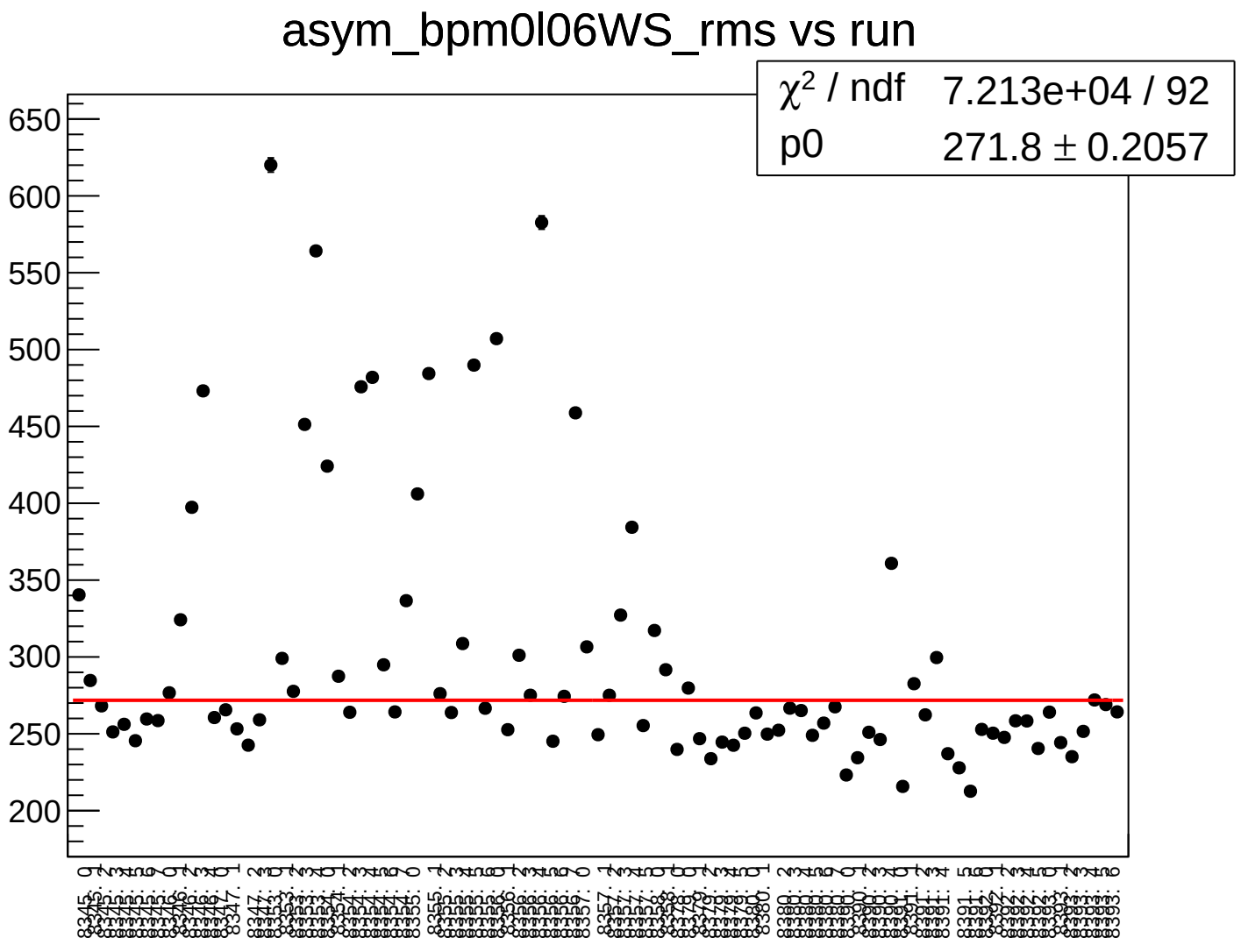

asym_bpm0l05WS_mean vs run
χ² / ndf 602.8 / 92
p0 −7903 ± 282.9
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 93
Mean −269.9
Std Dev 0
6
4
2
0
−2
−4

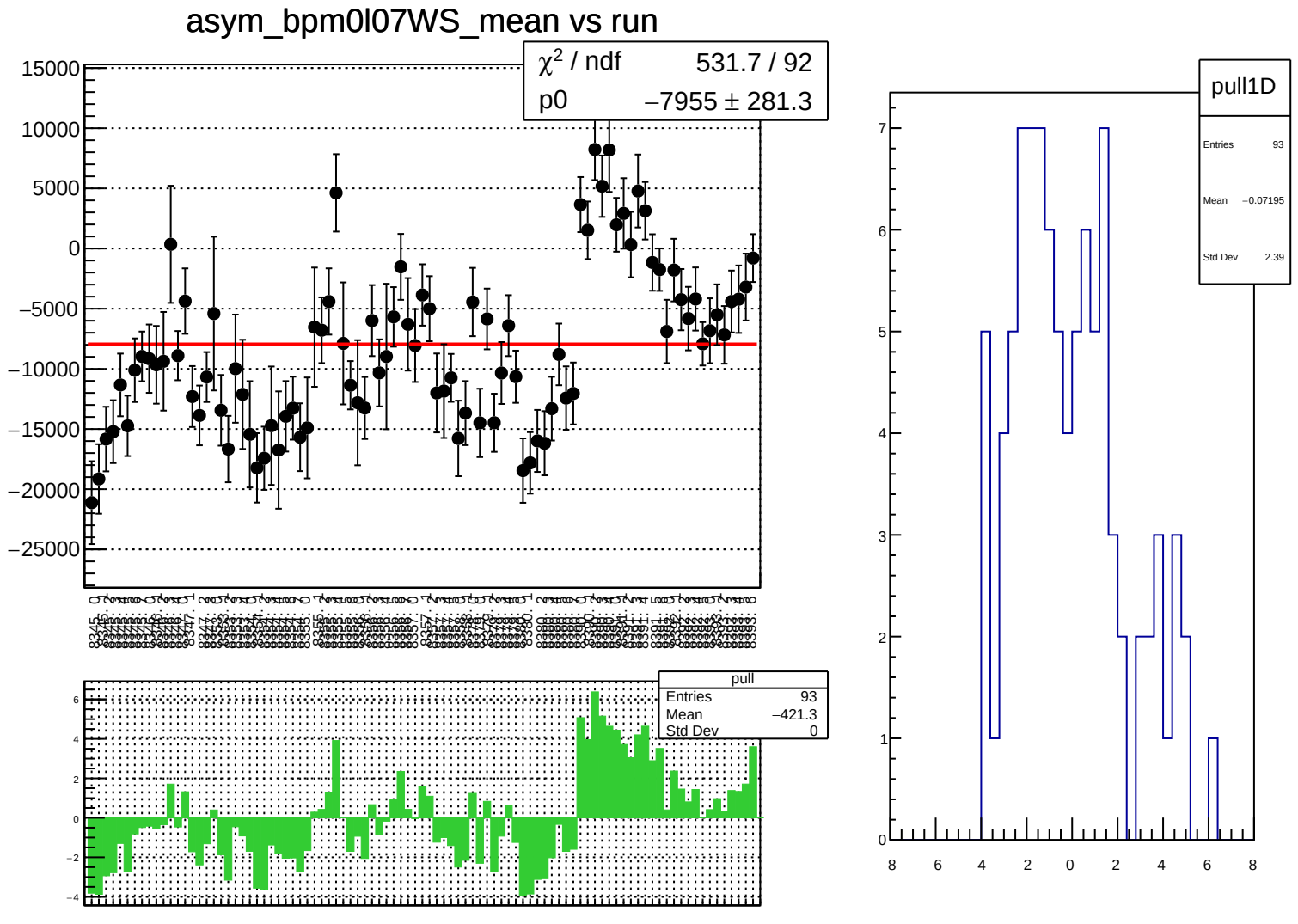

pull1D
Entries 93
Mean −0.1007
Std Dev 2.544
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

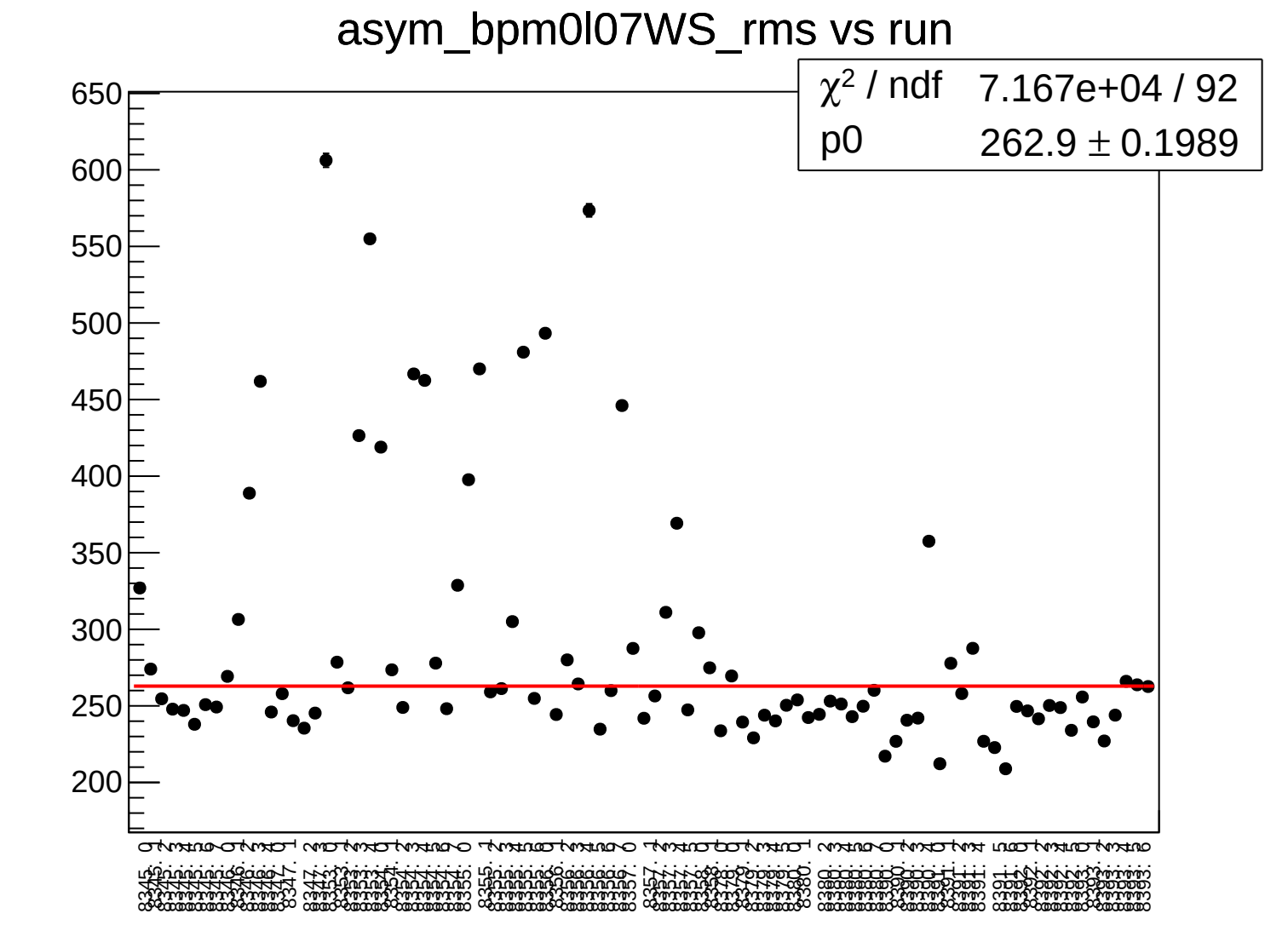

asym_bpm0l05WS_rms vs run
χ² / ndf 7.537e+04 / 92
p0 264.1 ± 0.2
650
600
550
500
450
400
350
300
250
200

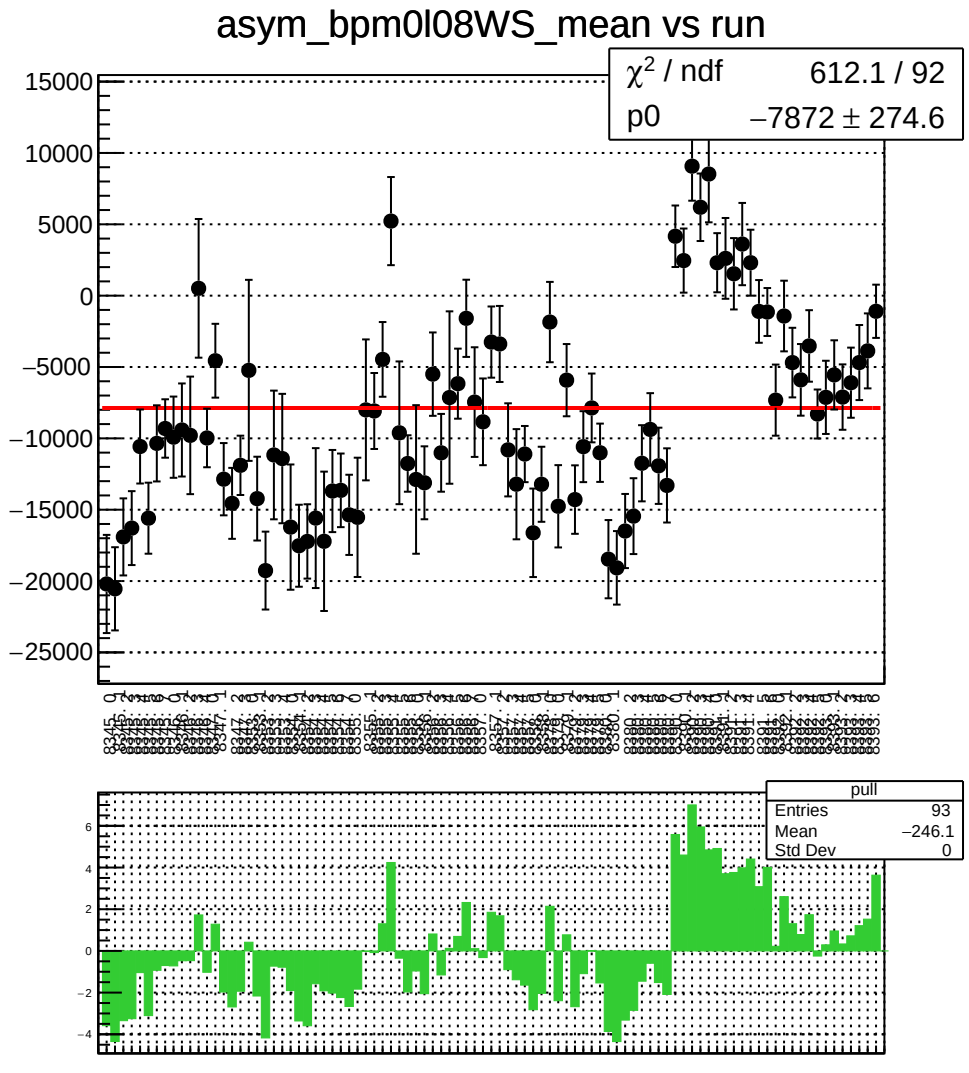

asym_bpm0l06WS_mean vs run
χ² / ndf 556.5 / 92
p0 −8321 ± 290.8
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 93
Mean −358.3
Std Dev 0
6
4
2
0
−2
−4

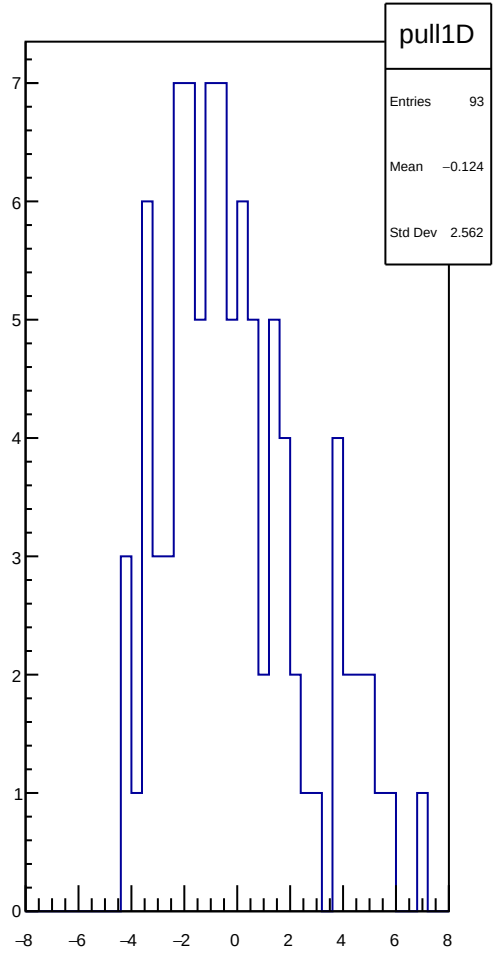

pull1D
Entries 93
Mean −0.08077
Std Dev 2.445
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

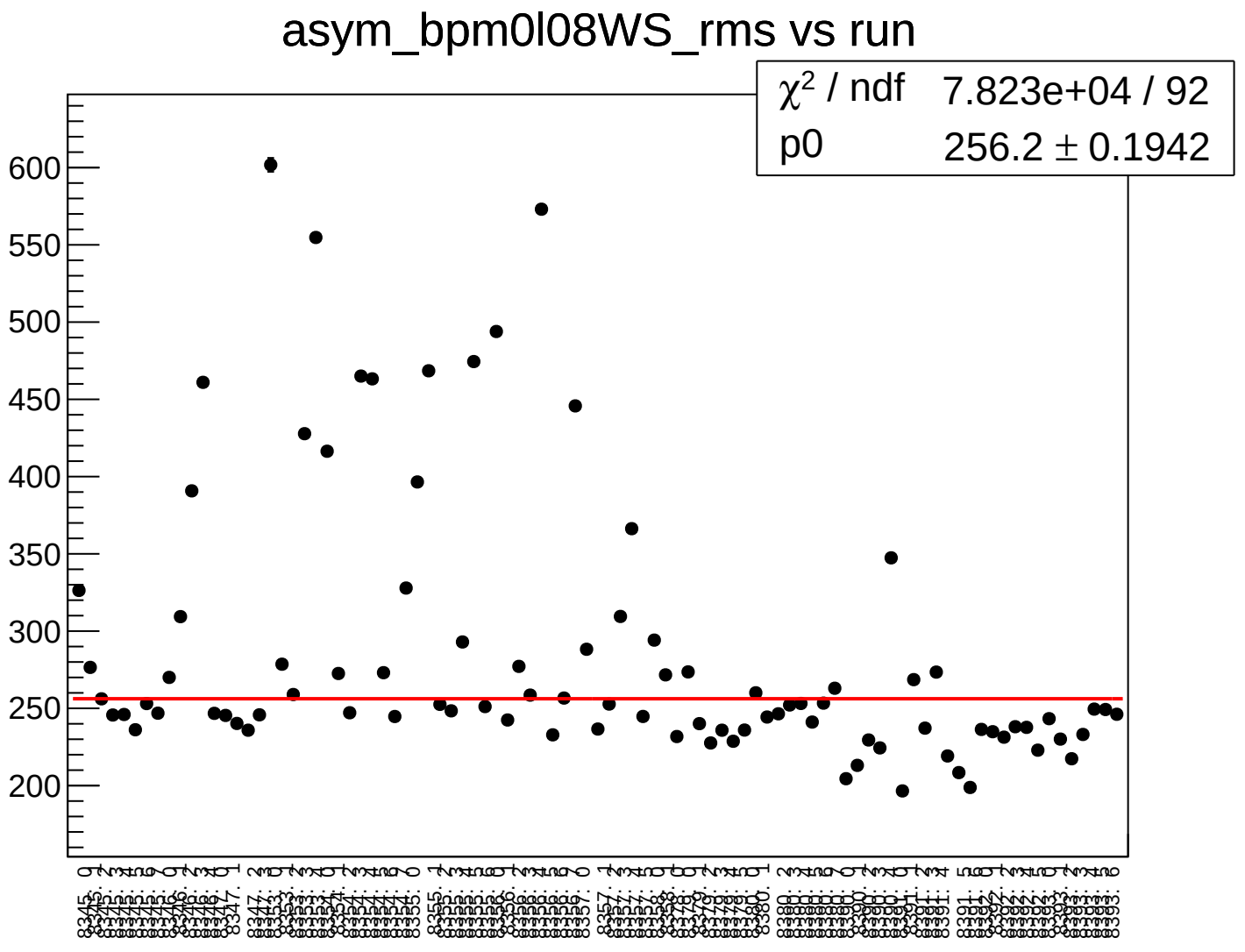

asym_bpm0l06WS_rms vs run
χ² / ndf 7.213e+04 / 92
p0 271.8 ± 0.2057
650
600
550
500
450
400
350
300
250
200

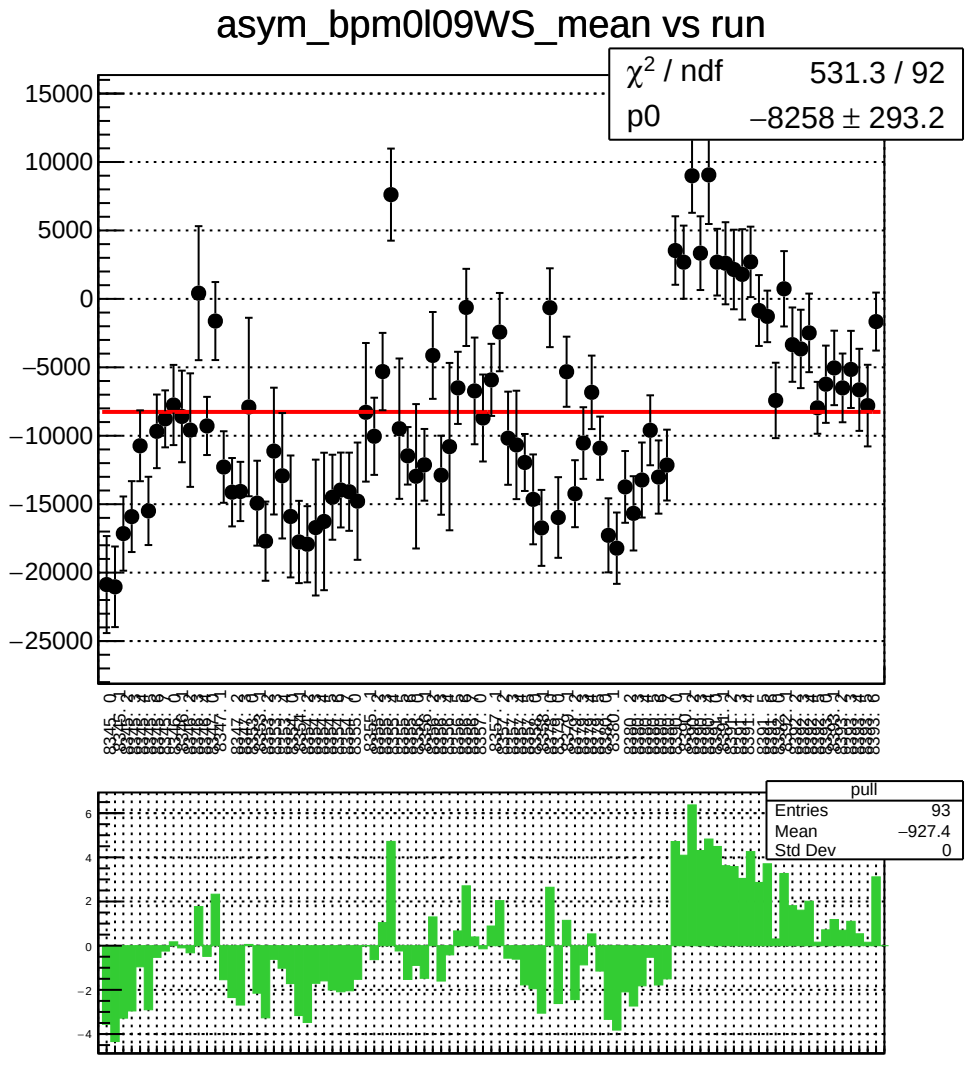

asym_bpm0l07WS_mean vs run
χ² / ndf 531.7 / 92
p0 −7955 ± 281.3
pull
Entries 93
Mean −421.3
Std Dev 0
pull1D
Entries 93
Mean −0.07195
Std Dev 2.39

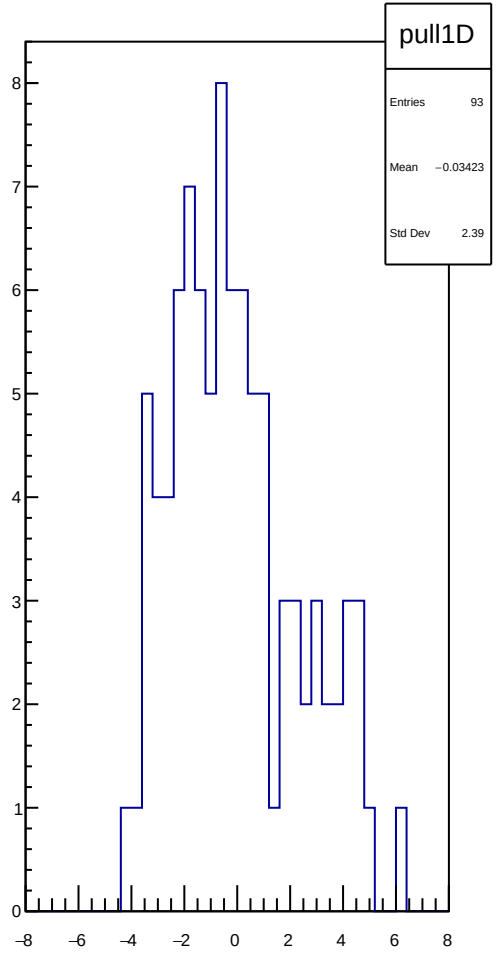

asym_bpm0l07WS_rms vs run
χ^2 / ndf 7.167e+04 / 92
p0 262.9 ± 0.1989
650
600
550
500
450
400
350
300
250
200

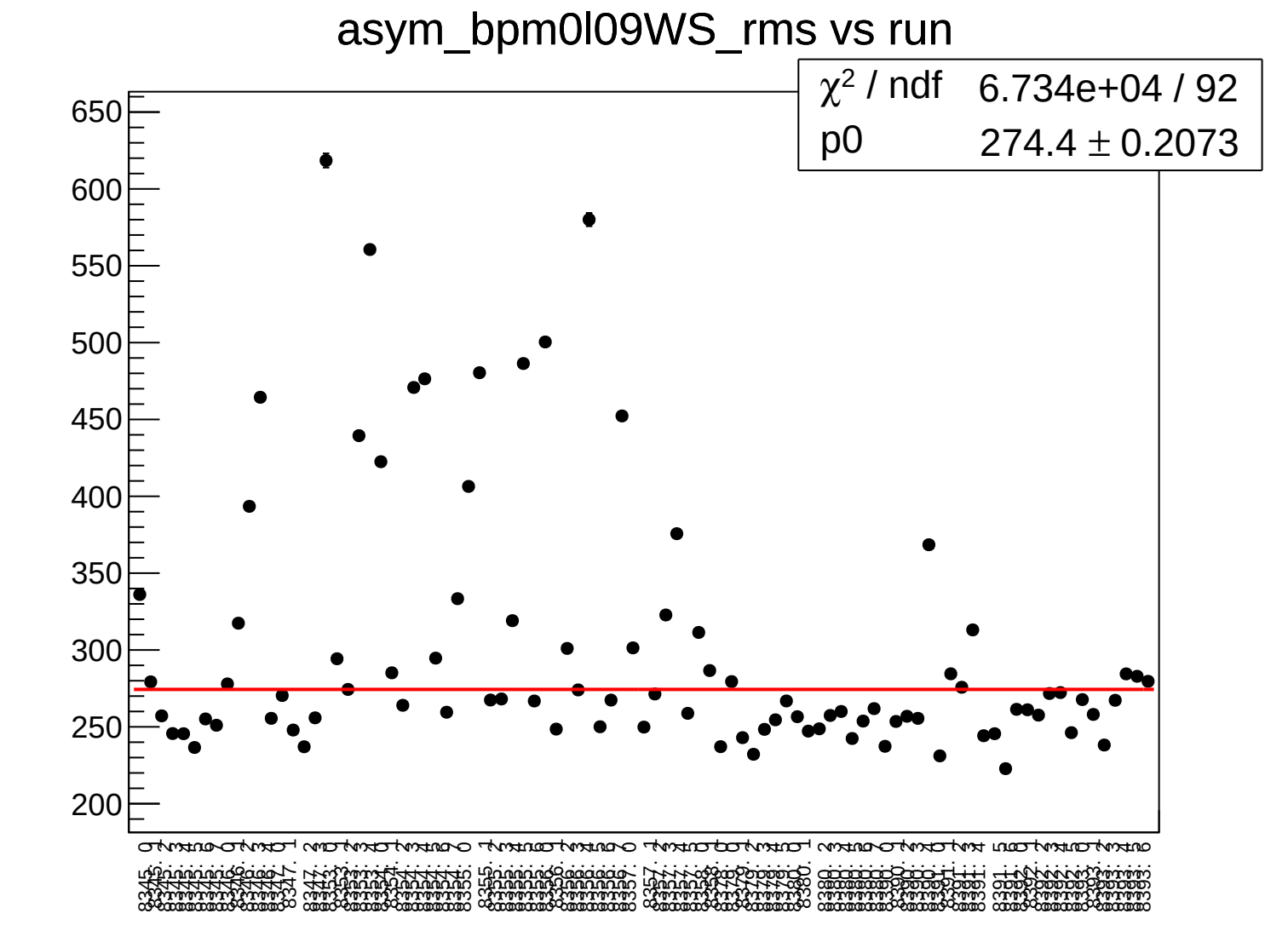

asym_bpm0l08WS_mean vs run
χ² / ndf 612.1 / 92
p0 −7872 ± 274.6
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 93
Mean −246.1
Std Dev 0
6
4
2
0
−2
−4

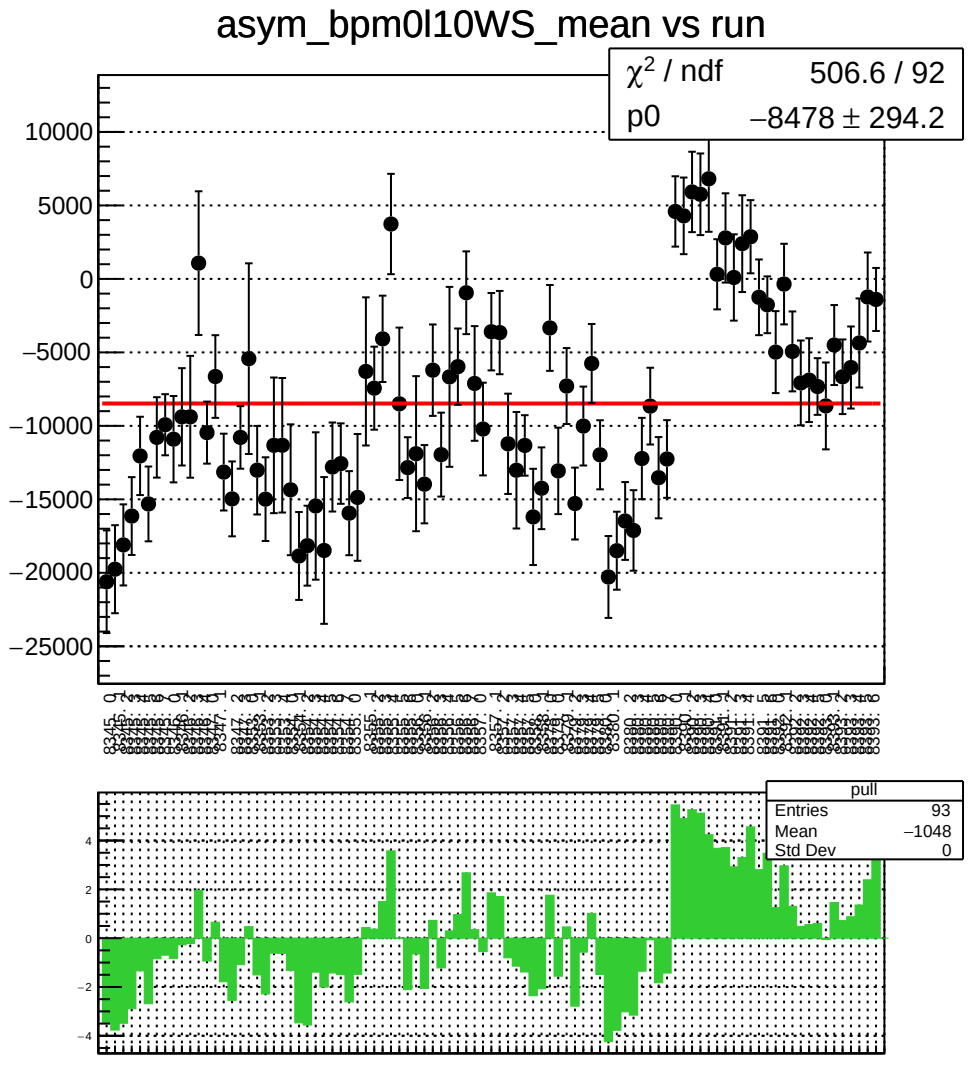

pull1D
Entries 93
Mean −0.124
Std Dev 2.562
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

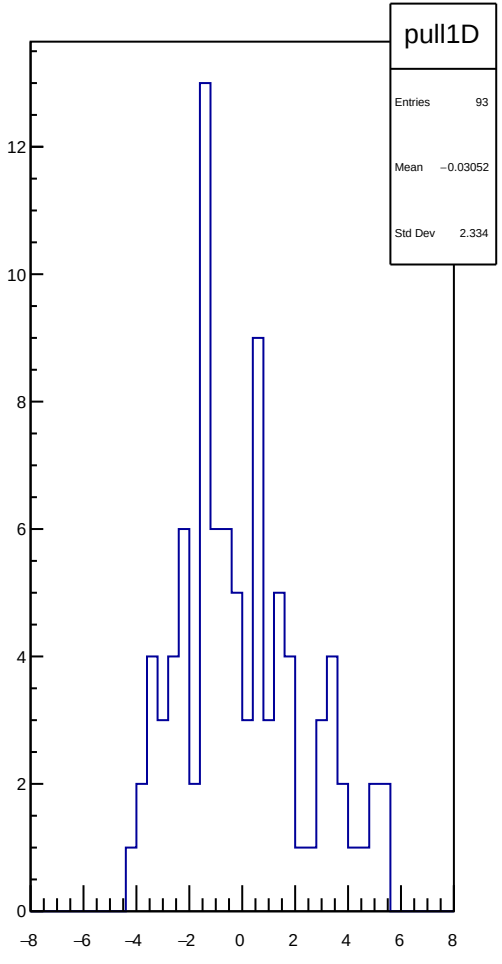

asym_bpm0l08WS_rms vs run
χ^2 / ndf 7.823e+04 / 92
p0 256.2 ± 0.1942
600
550
500
450
400
350
300
250
200

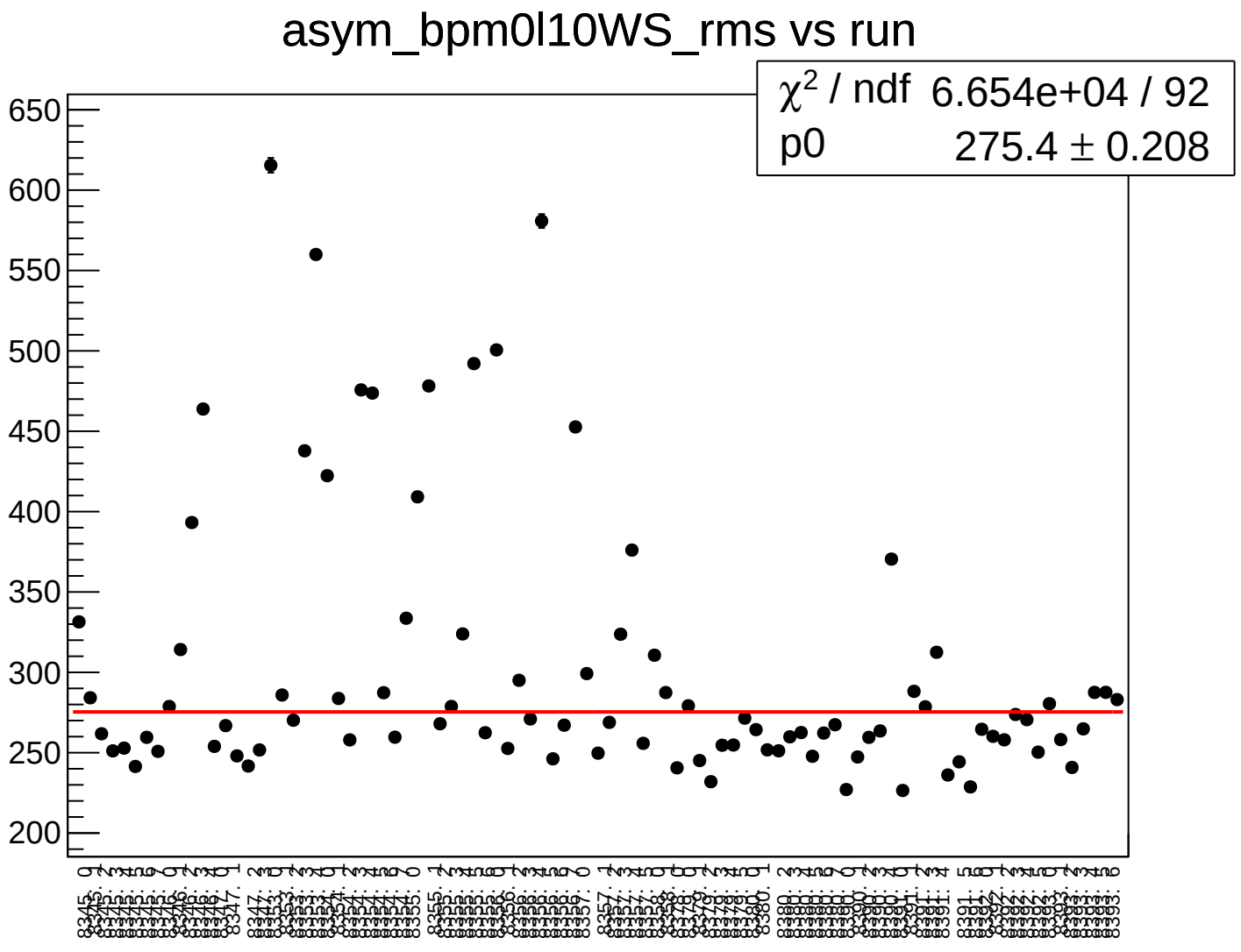

asym_bpm0l09WS_mean vs run
χ² / ndf 531.3 / 92
p0 −8258 ± 293.2
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 93
Mean −927.4
Std Dev 0
6
4
2
0
−2
−4

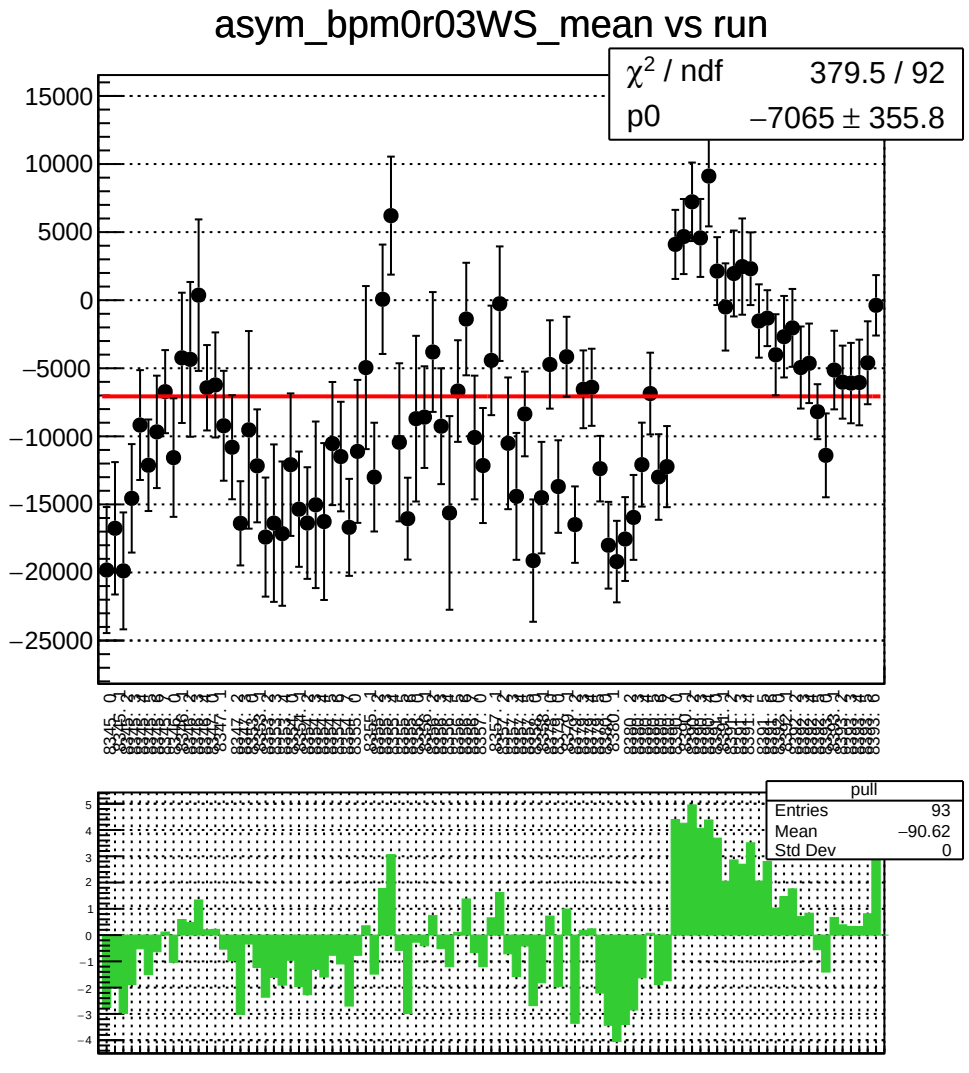

pull1D
Entries 93
Mean −0.03423
Std Dev 2.39
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

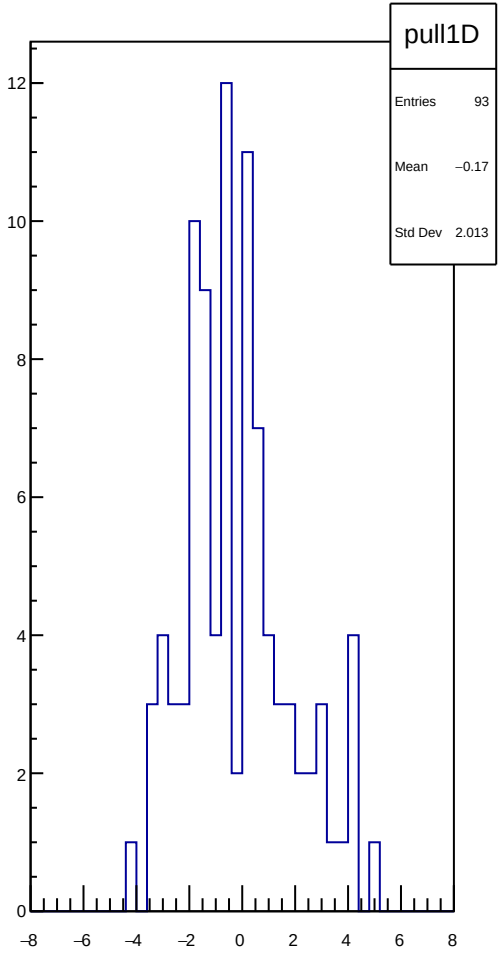

asym_bpm0l09WS_rms vs run
χ² / ndf 6.734e+04 / 92
p0 274.4 ± 0.2073
650
600
550
500
450
400
350
300
250
200

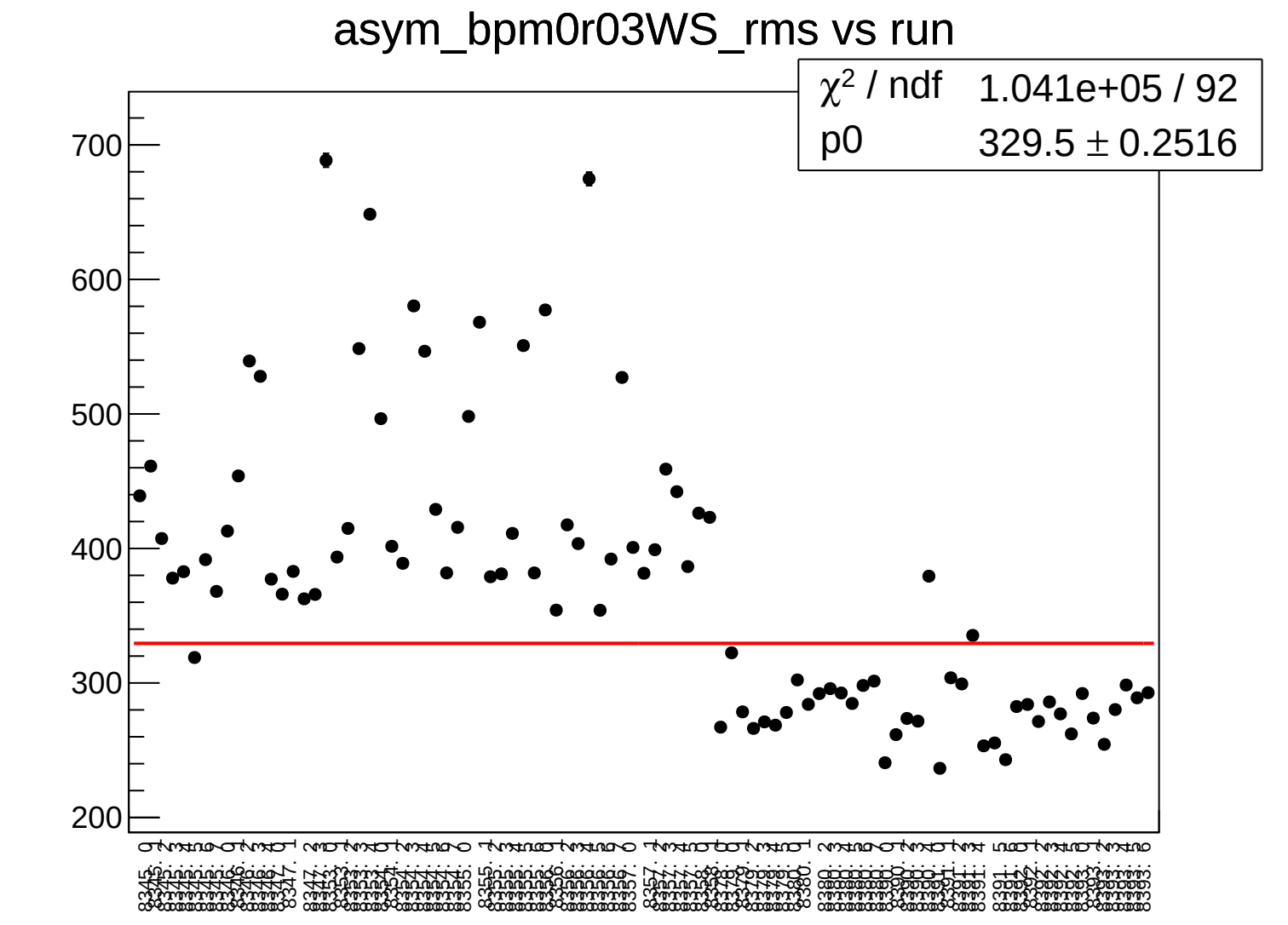

asym_bpm0l10WS_mean vs run
χ² / ndf 506.6 / 92
p0 −8478 ± 294.2
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 93
Mean −1048
Std Dev 0
4
2
0
−2
−4

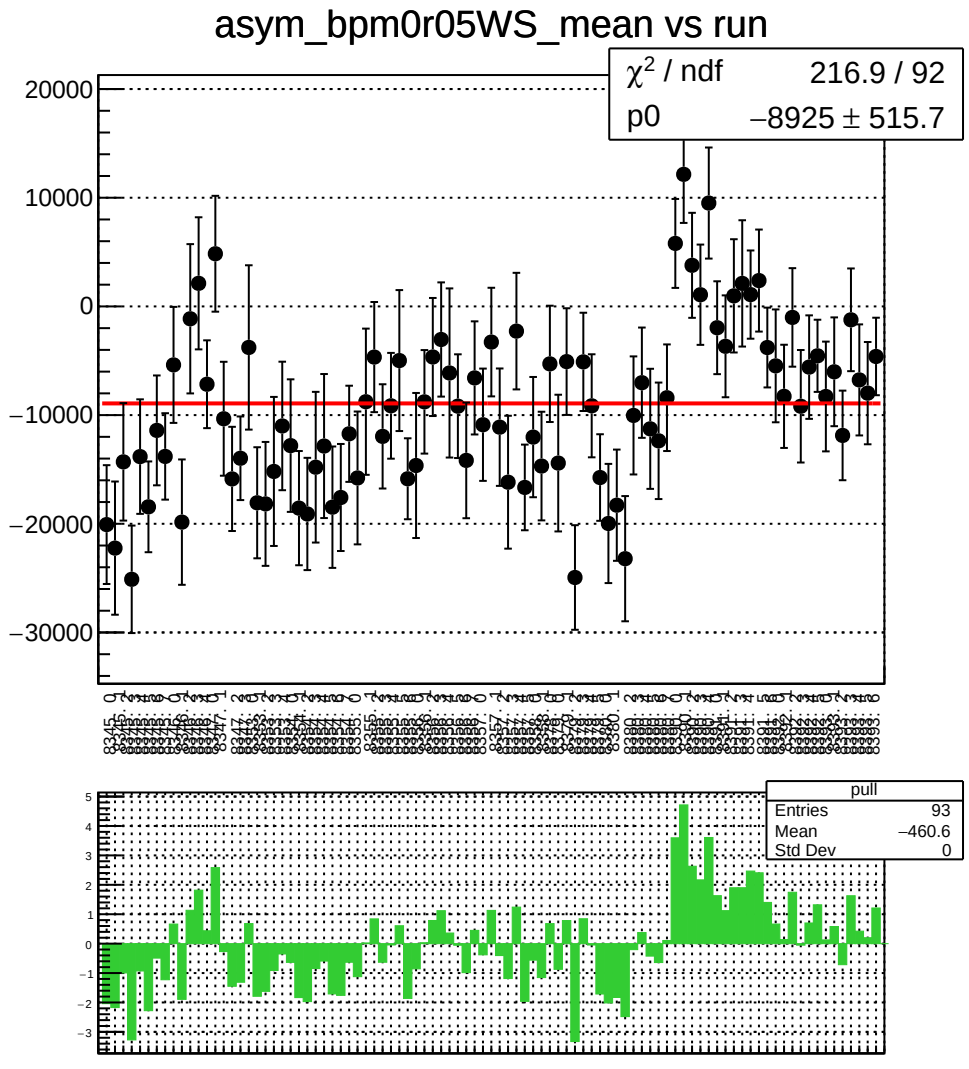

pull1D
Entries 93
Mean −0.03052
Std Dev 2.334
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

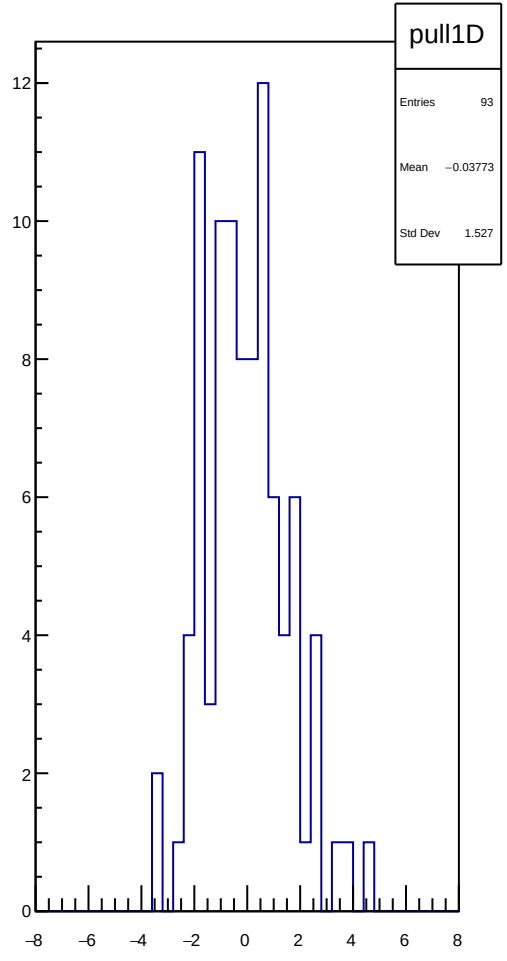

asym_bpm0l10WS_rms vs run
χ² / ndf 6.654e+04 / 92
p0 275.4 ± 0.208
650
600
550
500
450
400
350
300
250
200

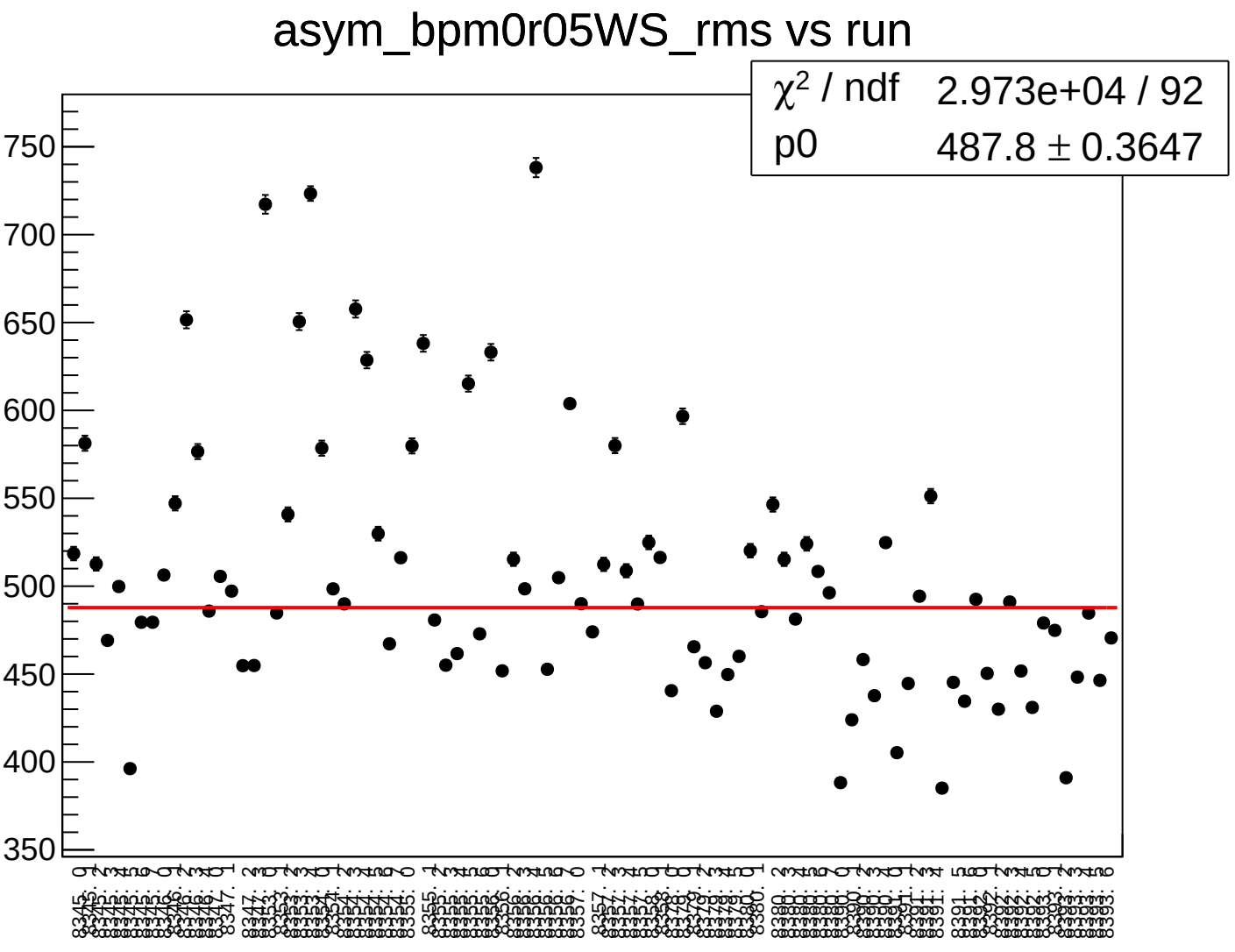

asym_bpm0r03WS_mean vs run
χ² / ndf 379.5 / 92
p0 −7065 ± 355.8
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 93
Mean −90.62
Std Dev 0
5
4
3
2
1
0
−1
−2
−3
−4

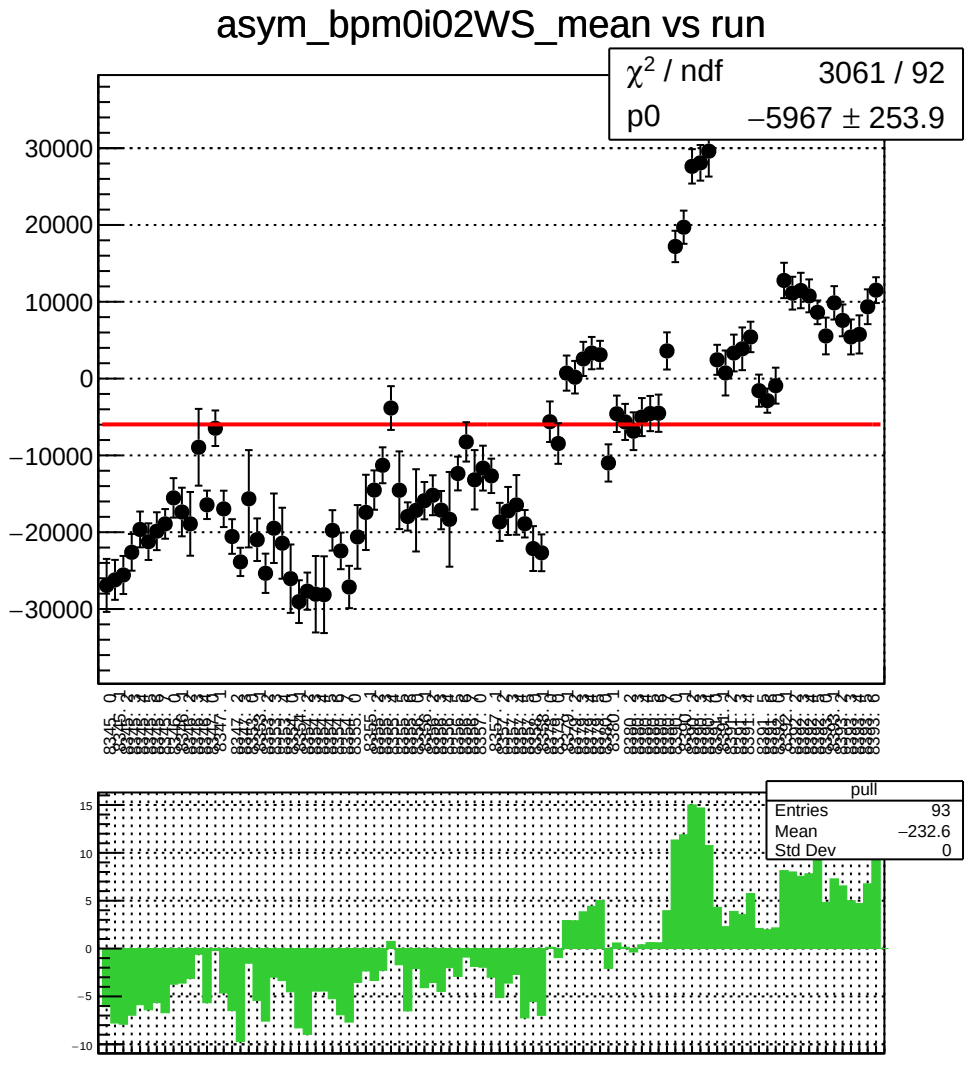

pull1D
Entries 93
Mean −0.17
Std Dev 2.013
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

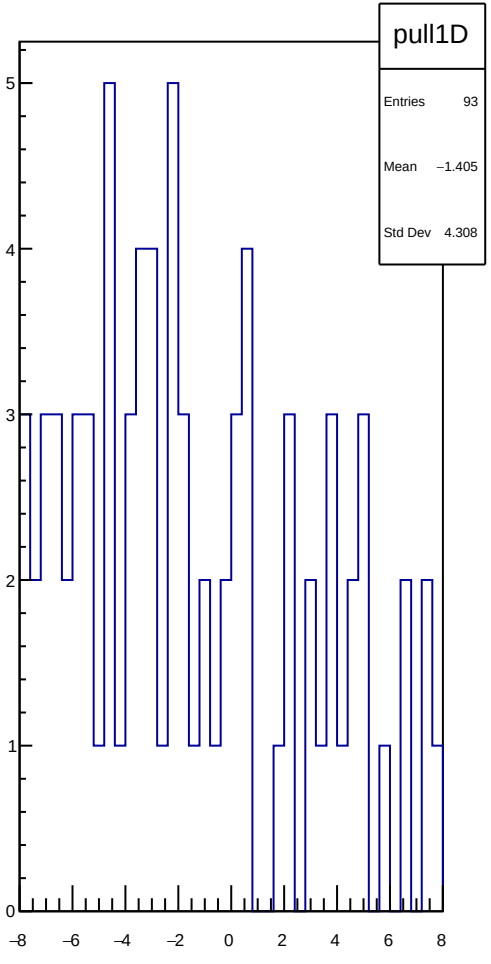

asym_bpm0r03WS_rms vs run
χ² / ndf 1.041e+05 / 92
p0 329.5 ± 0.2516
700
600
500
400
300
200

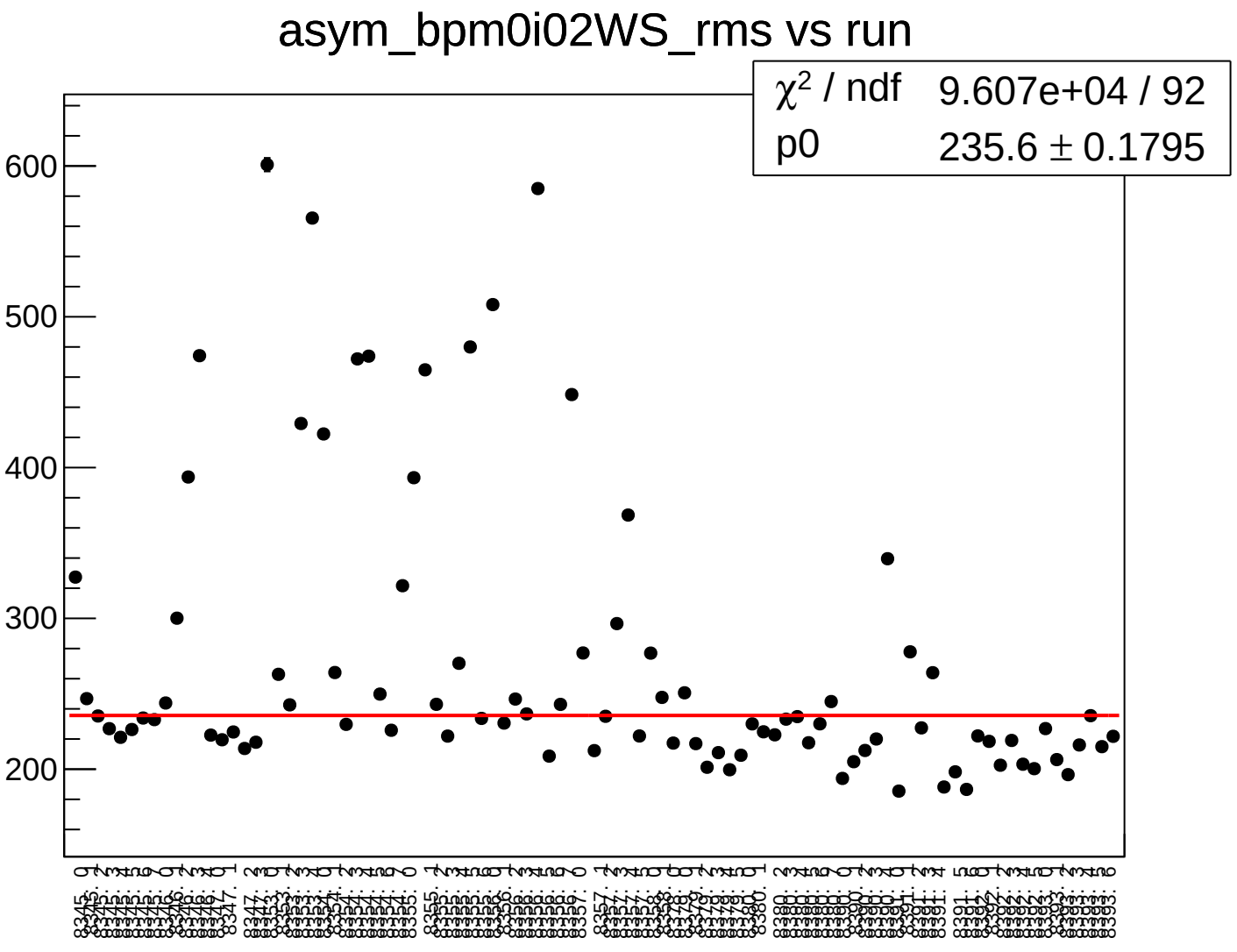

asym_bpm0r05WS_mean vs run
χ² / ndf 216.9 / 92
p0 −8925 ± 515.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −460.6
Std Dev 0
5
4
3
2
1
0
−1
−2
−3

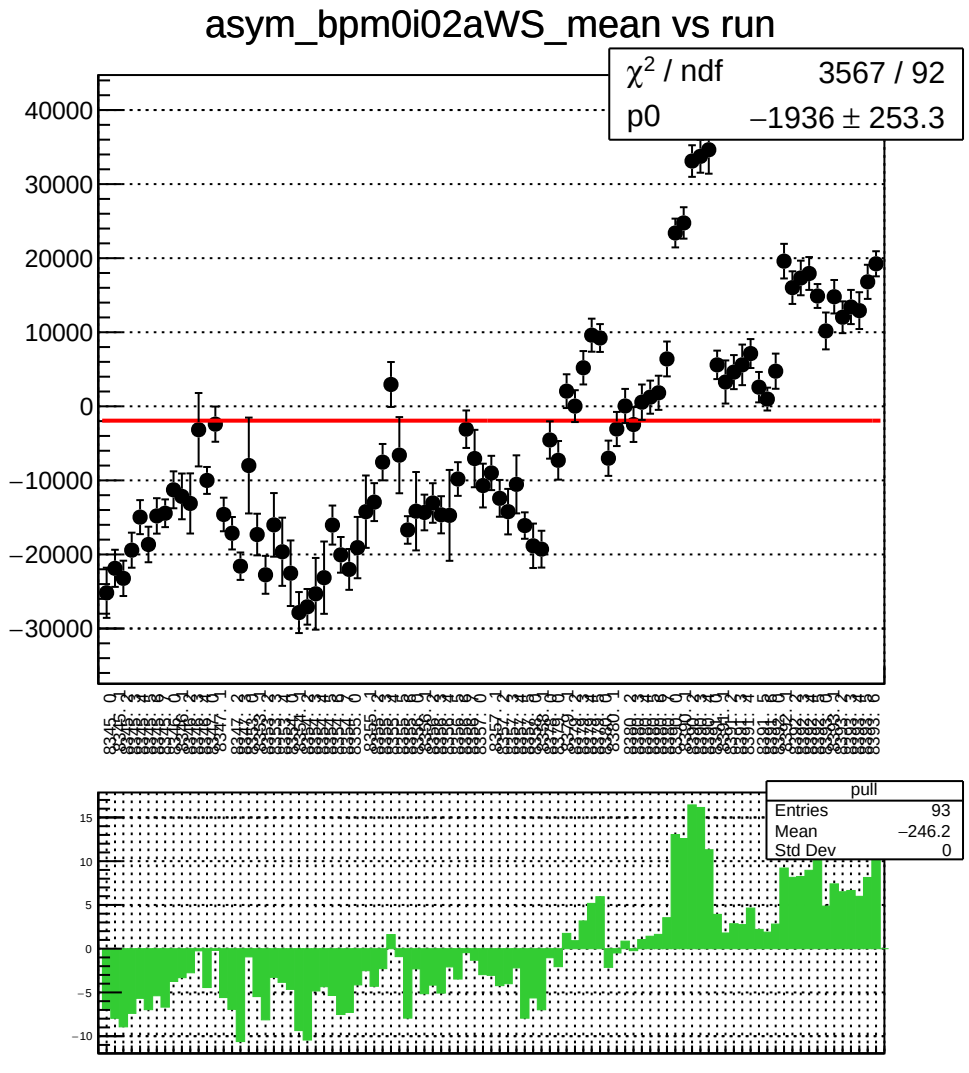

pull1D
Entries 93
Mean −0.03773
Std Dev 1.527
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

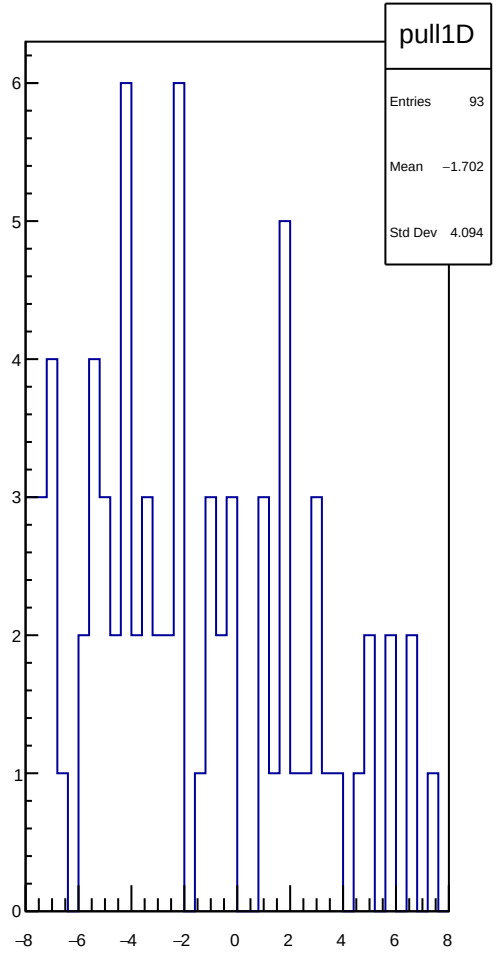

asym_bpm0r05WS_rms vs run
χ² / ndf 2.973e+04 / 92
p0 487.8 ± 0.3647
750
700
650
600
550
500
450
400
350

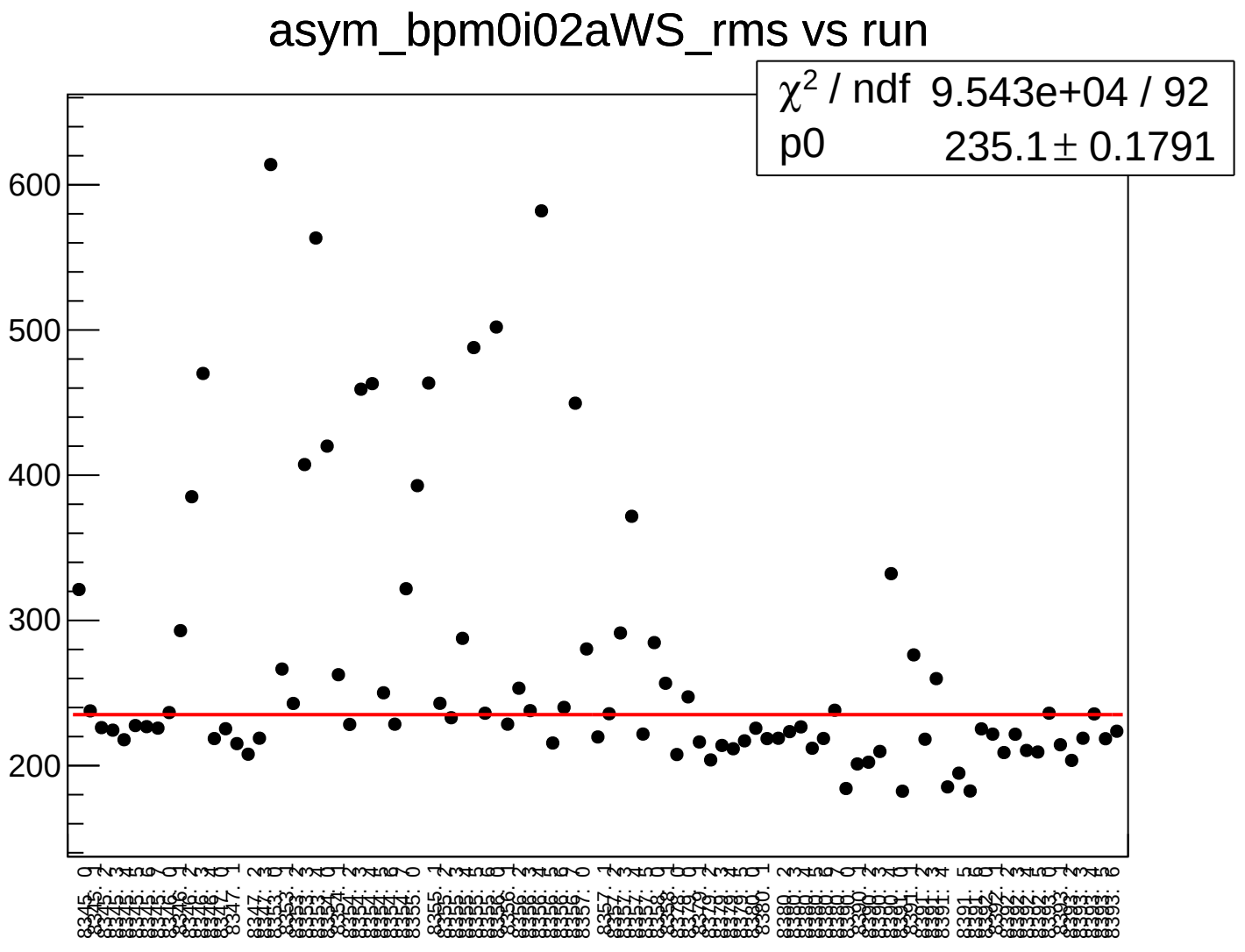

asym_bpm0i02WS_mean vs run
χ² / ndf 3061 / 92
p0 −5967 ± 253.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −232.6
Std Dev 0
15
10
5
0
−5
−10

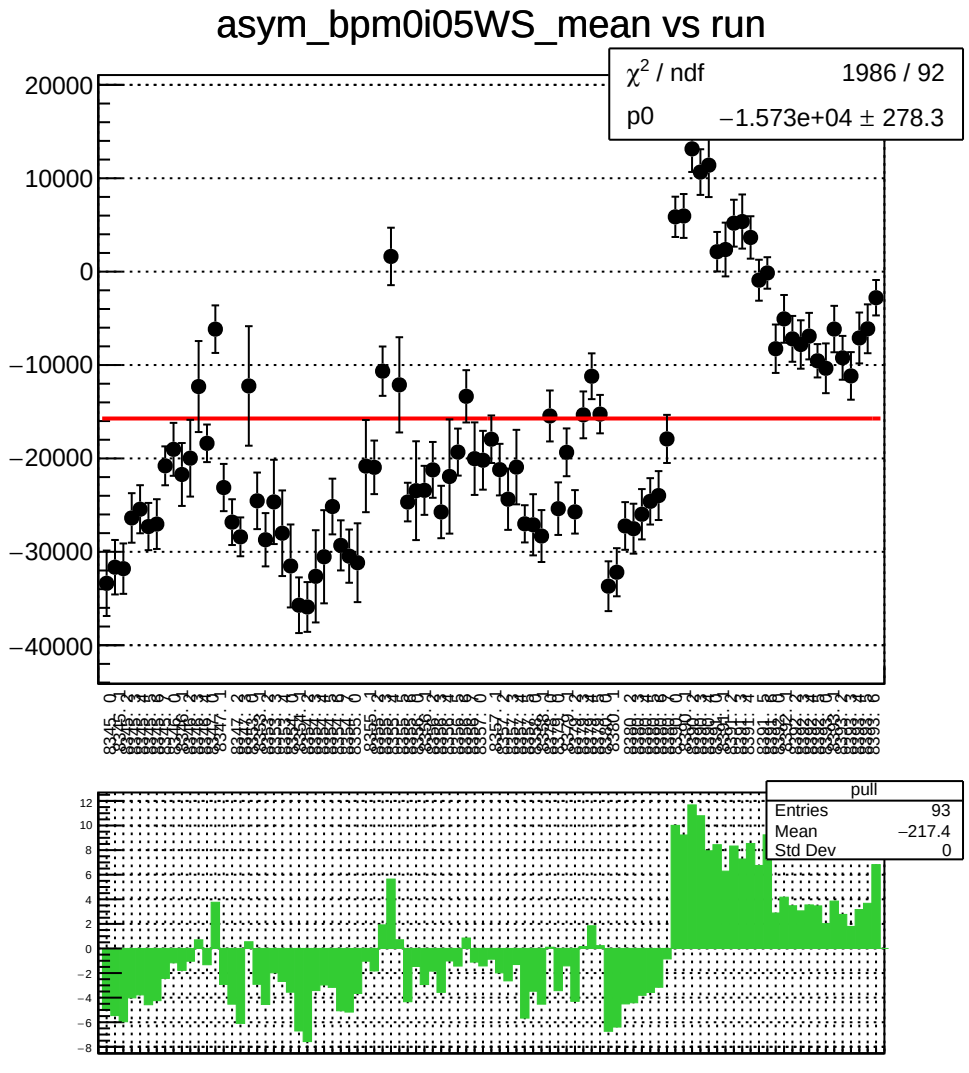

pull1D
Entries 93
Mean −1.405
Std Dev 4.308
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

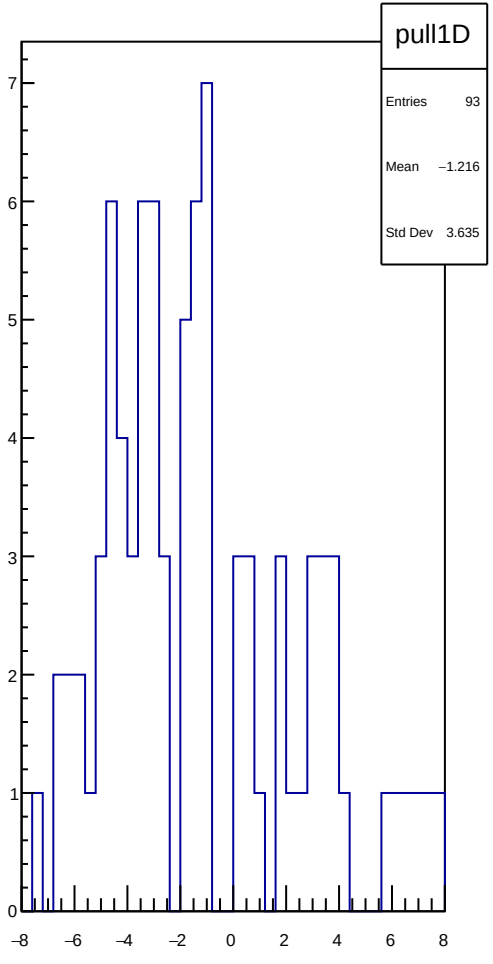

asym_bpm0i02WS_rms vs run
χ^2 / ndf 9.607e+04 / 92
p0 235.6 ± 0.1795
600
500
400
300
200

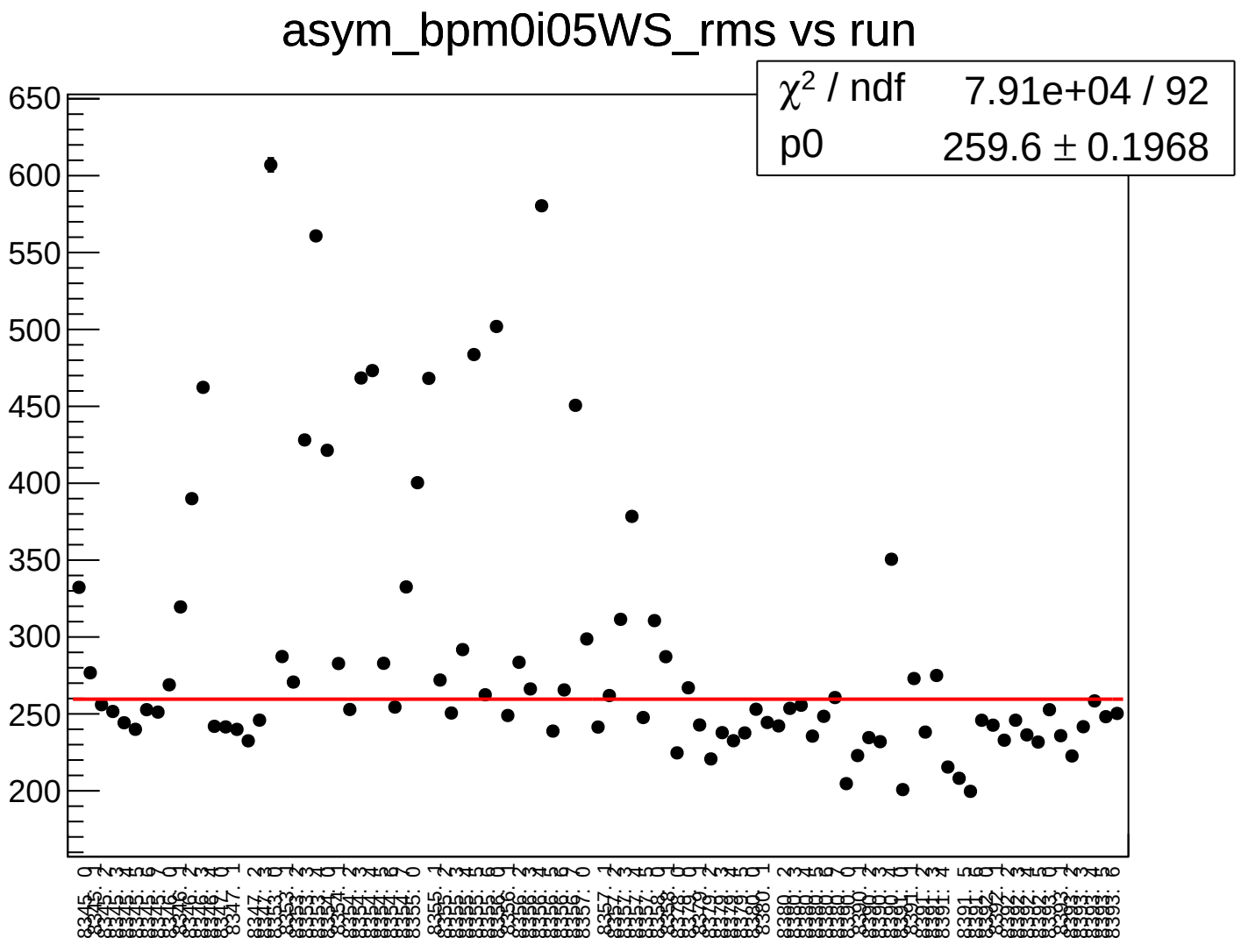

asym_bpm0i02aWS_mean vs run
χ² / ndf 3567 / 92
p0 −1936 ± 253.3
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −246.2
Std Dev 0
15
10
5
0
−5
−10

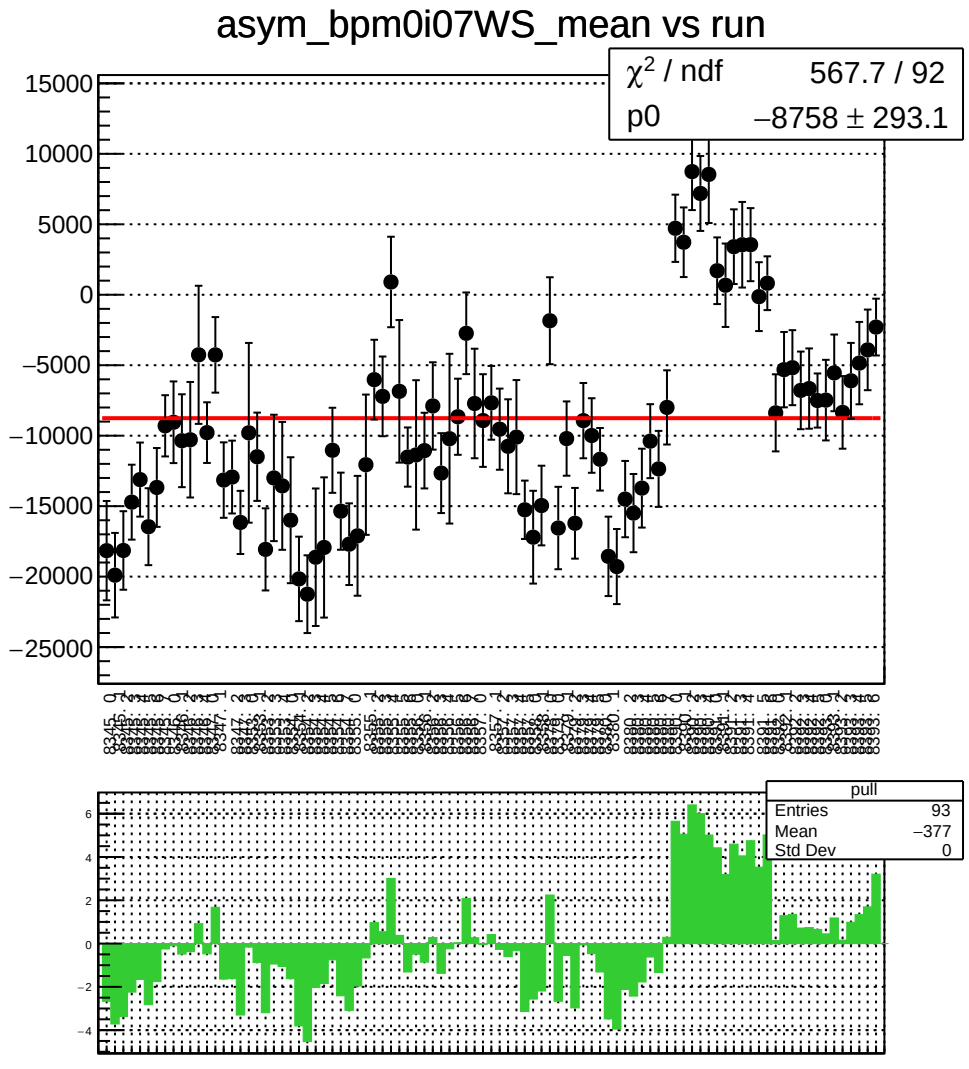

pull1D
Entries 93
Mean −1.702
Std Dev 4.094
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

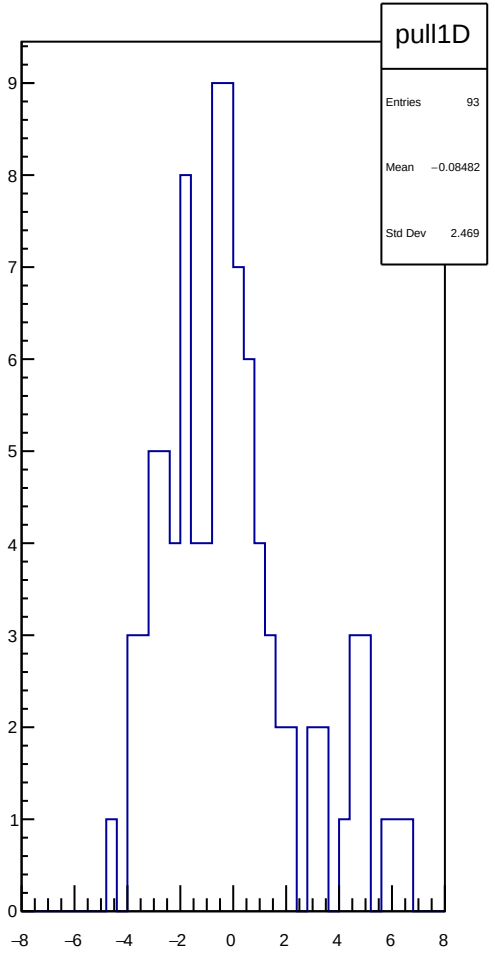

asym_bpm0i02aWS_rms vs run
χ^2 / ndf 9.543e+04 / 92
p0 235.1 ± 0.1791
600
500
400
300
200

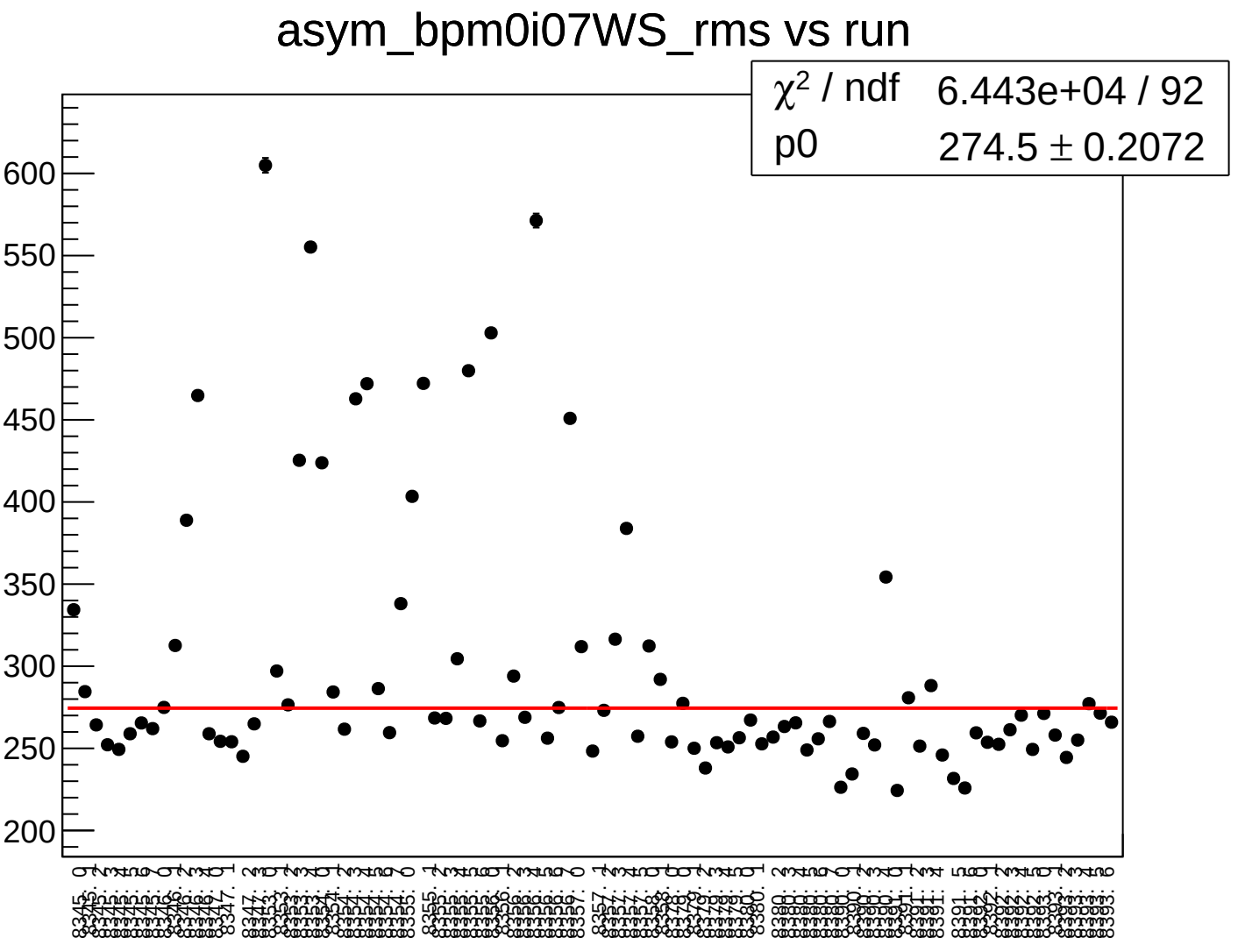

asym_bpm0i05WS_mean vs run
χ² / ndf 1986 / 92
p0 −1.573e+04 ± 278.3
pull
Entries 93
Mean −217.4
Std Dev 0

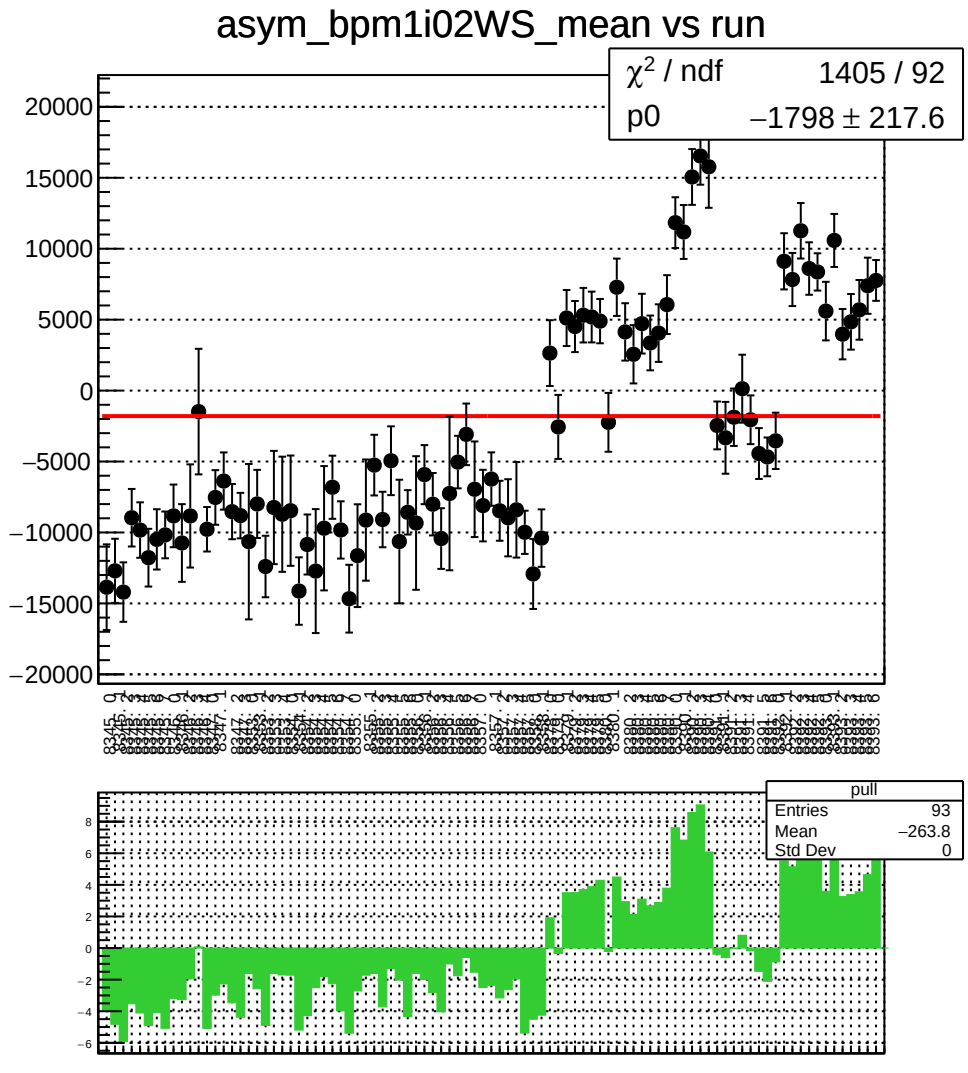

pull1D
Entries 93
Mean −1.216
Std Dev 3.635

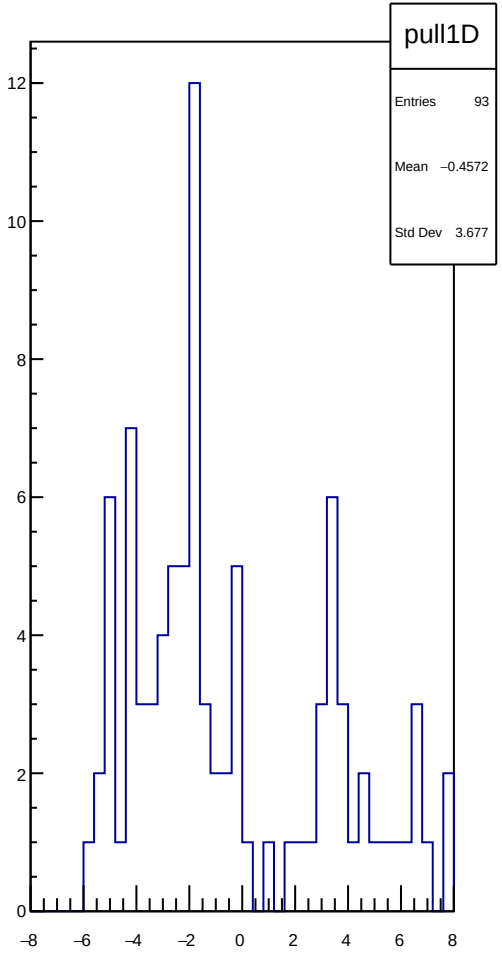

asym_bpm0i05WS_rms vs run
χ² / ndf 7.91e+04 / 92
p0 259.6 ± 0.1968
650
600
550
500
450
400
350
300
250
200

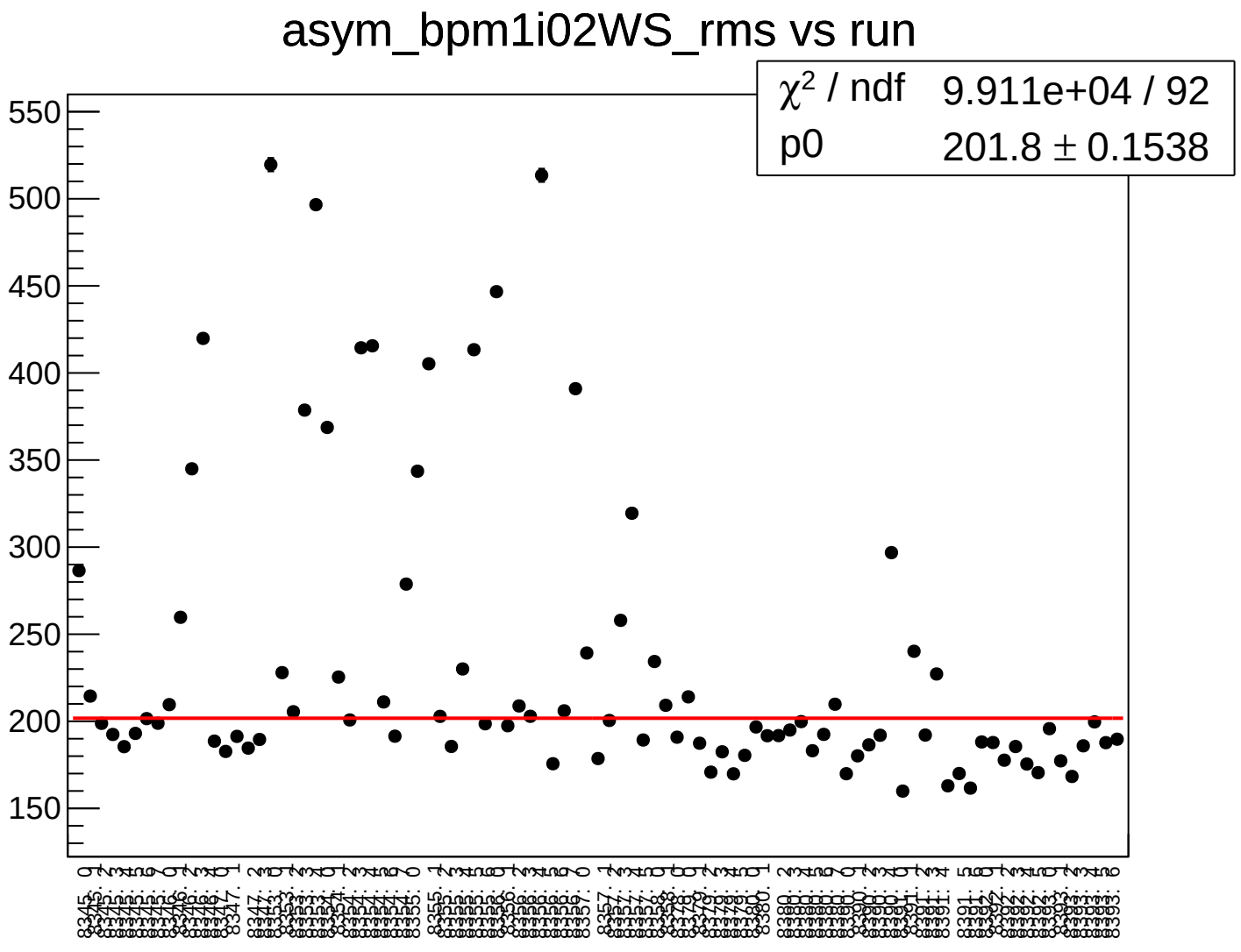

asym_bpm0i07WS_mean vs run
χ² / ndf 567.7 / 92
p0 −8758 ± 293.1
pull
Entries 93
Mean −377
Std Dev 0

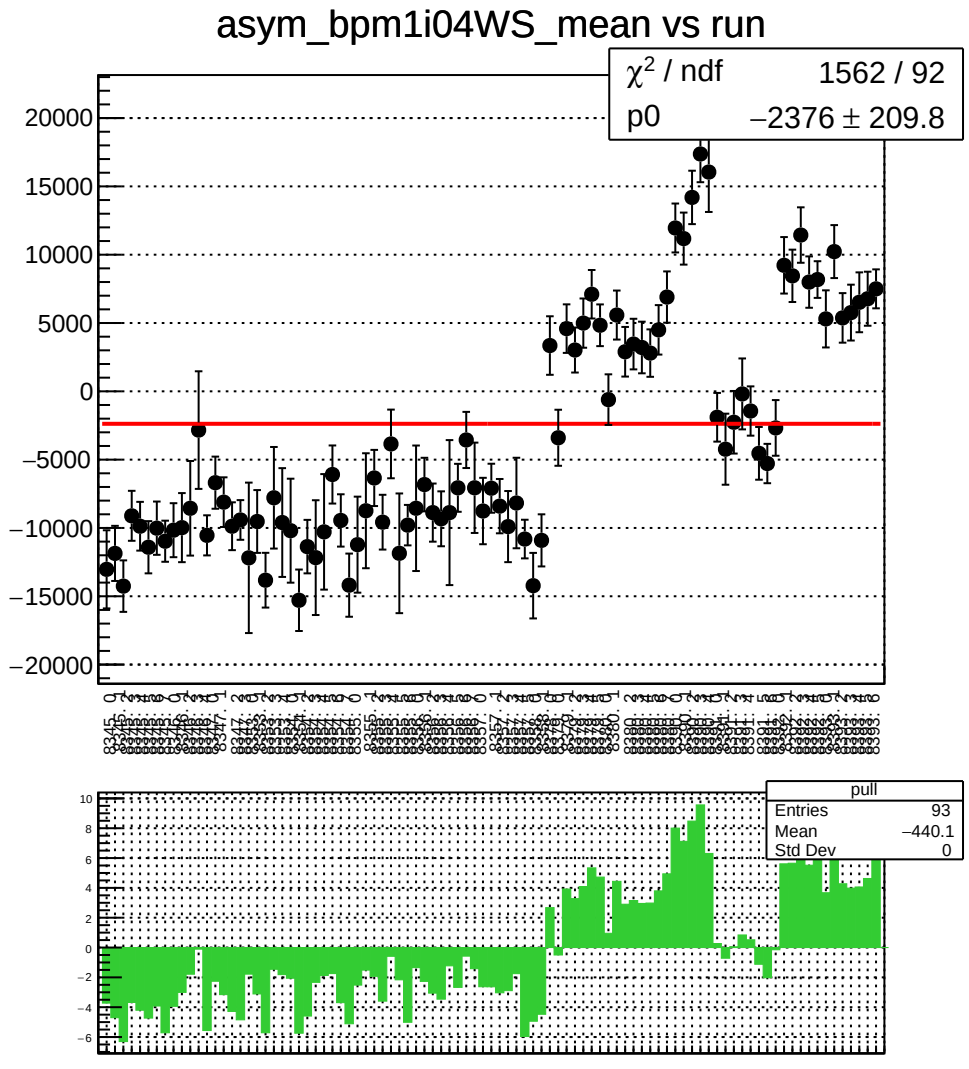

pull1D
Entries 93
Mean −0.08482
Std Dev 2.469

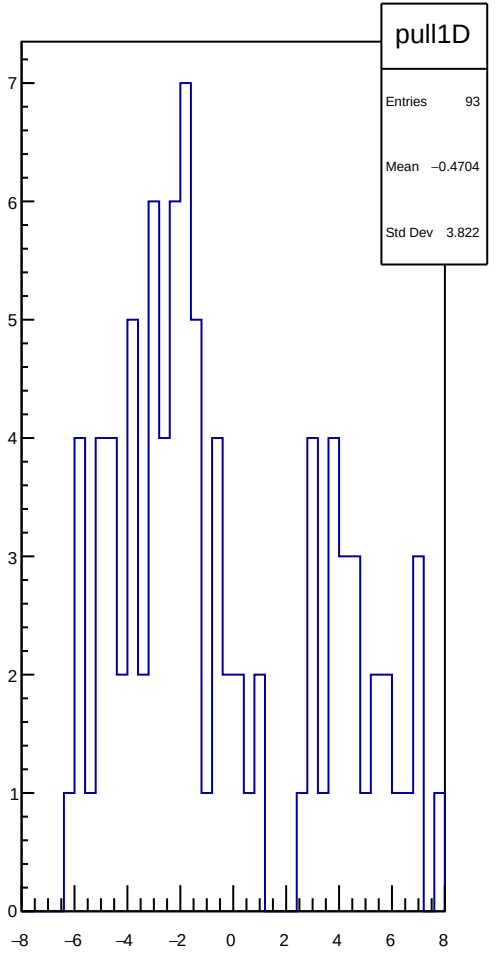

asym_bpm0i07WS_rms vs run
χ^2 / ndf 6.443e+04 / 92
p0 274.5 ± 0.2072
600
550
500
450
400
350
300
250
200

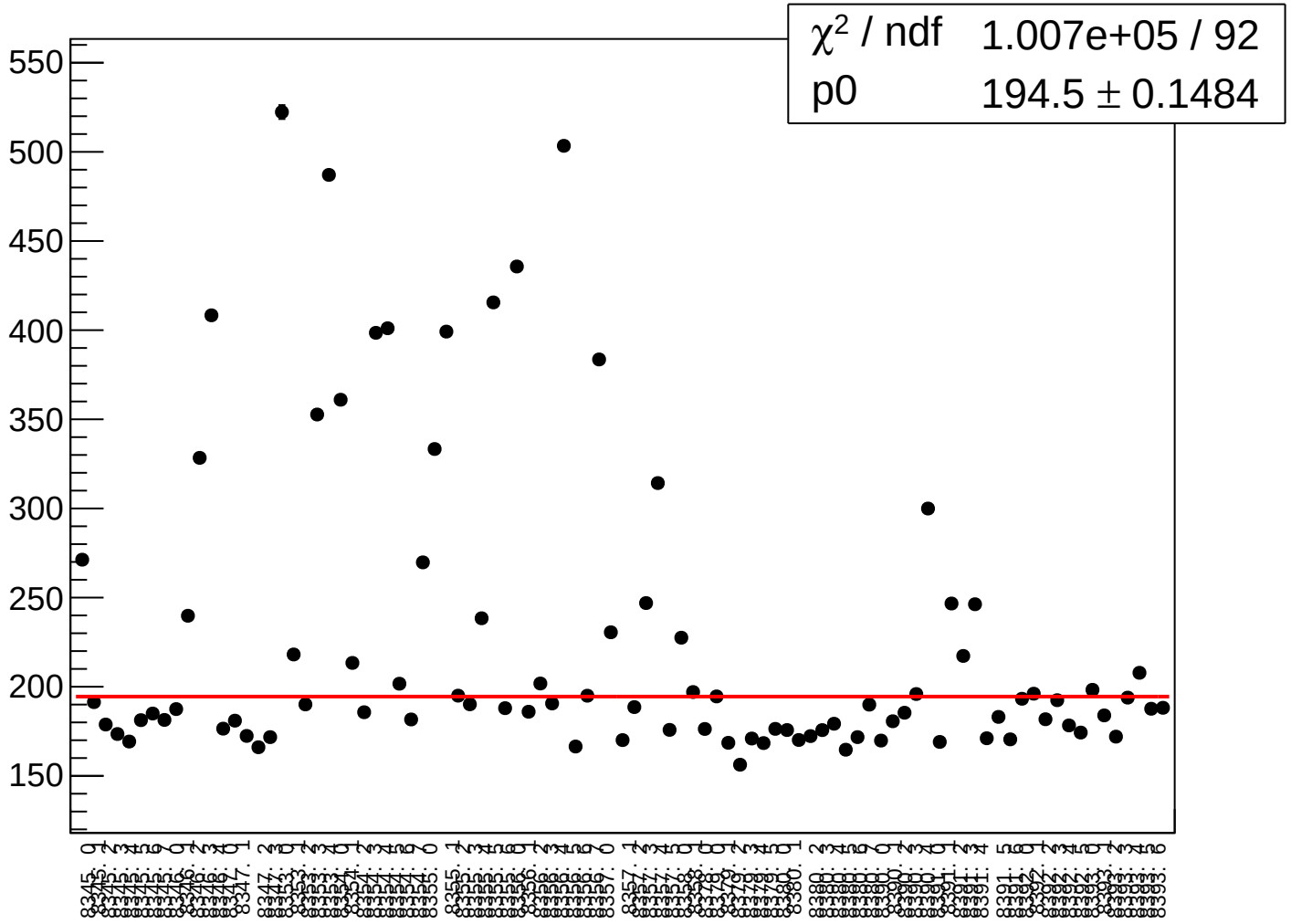

asym_bpm1i02WS_mean vs run
χ² / ndf 1405 / 92
p0 −1798 ± 217.6
pull
Entries 93
Mean −263.8
Std Dev 0

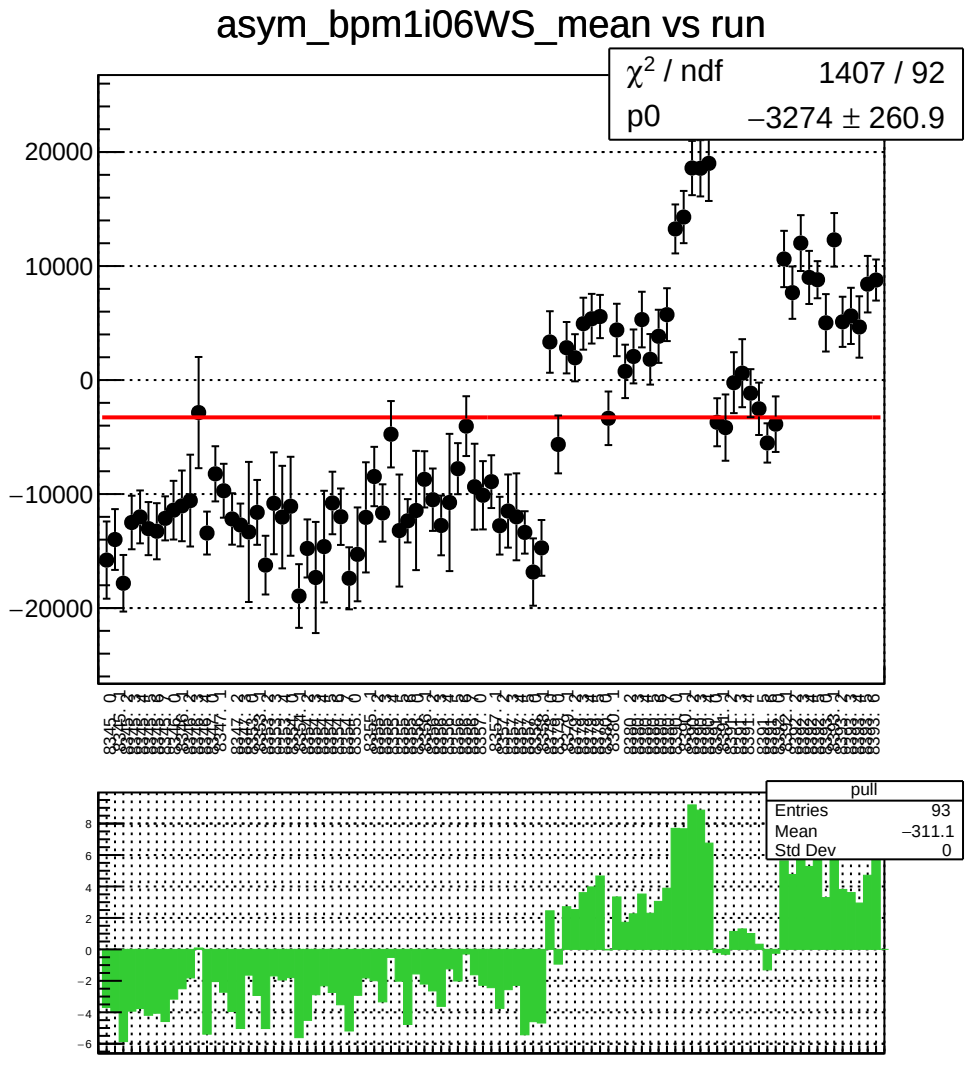

pull1D
Entries 93
Mean −0.4572
Std Dev 3.677

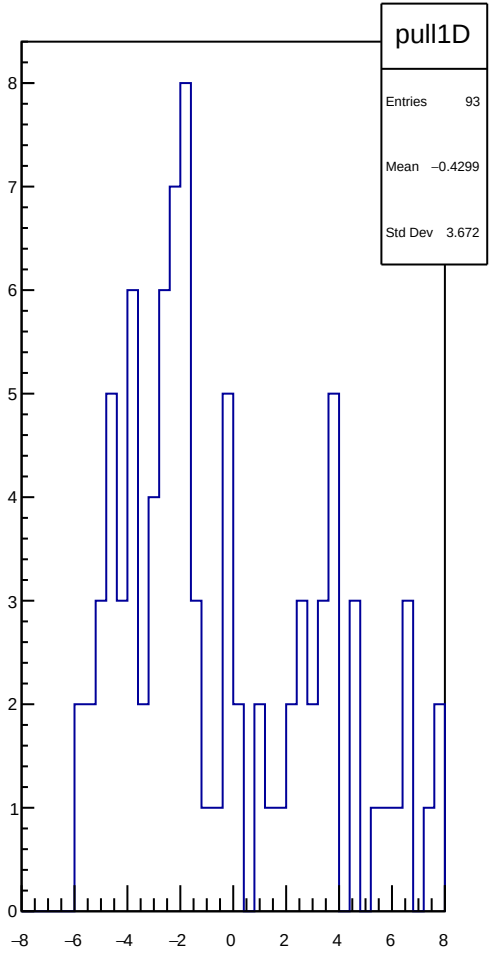

asym_bpm1i02WS_rms vs run
χ^2 / ndf 9.911e+04 / 92
p0 201.8 ± 0.1538
550
500
450
400
350
300
250
200
150

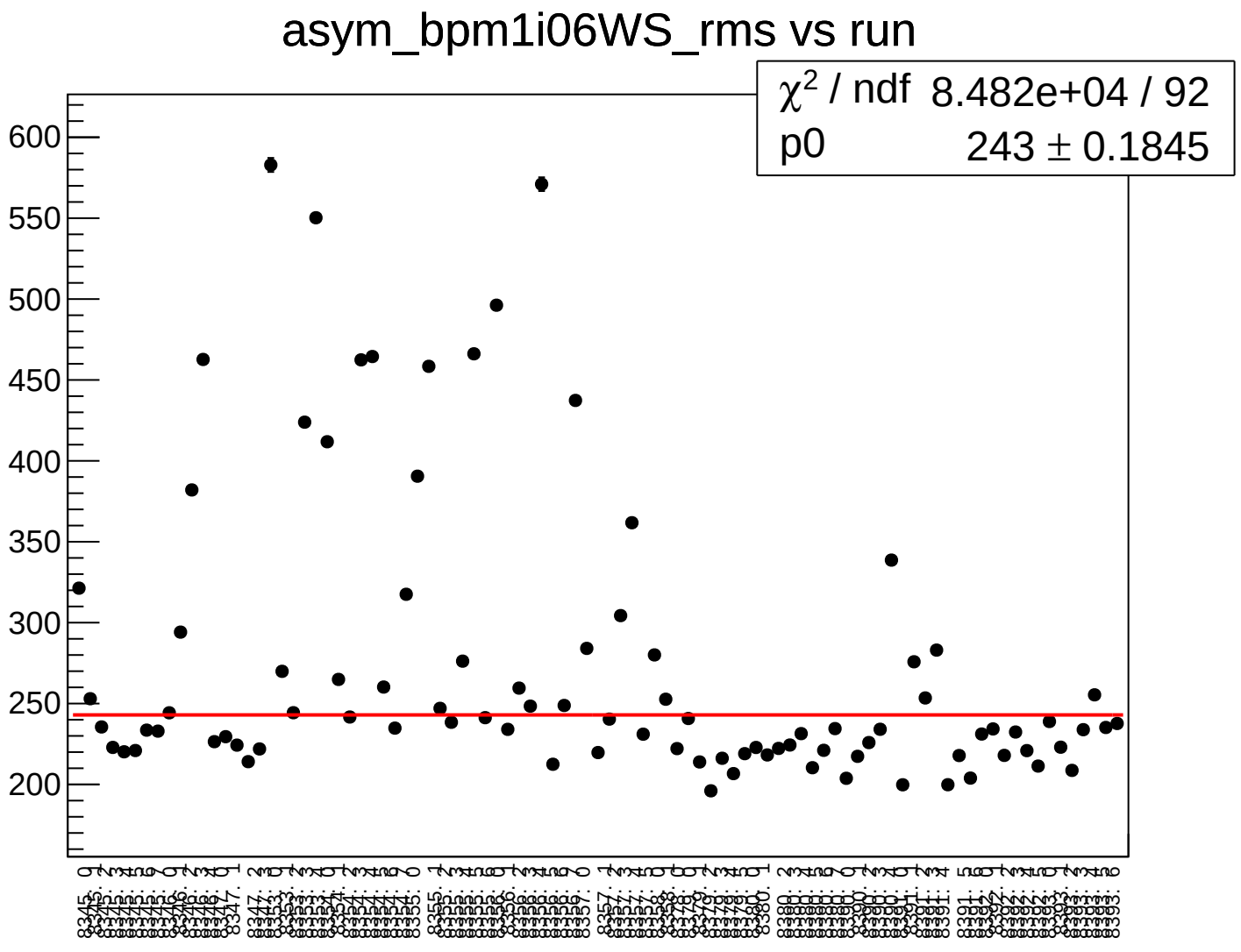

asym_bpm1i04WS_mean vs run
χ² / ndf 1562 / 92
p0 −2376 ± 209.8
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 93
Mean −440.1
Std Dev 0
10
8
6
4
2
0
−2
−4
−6

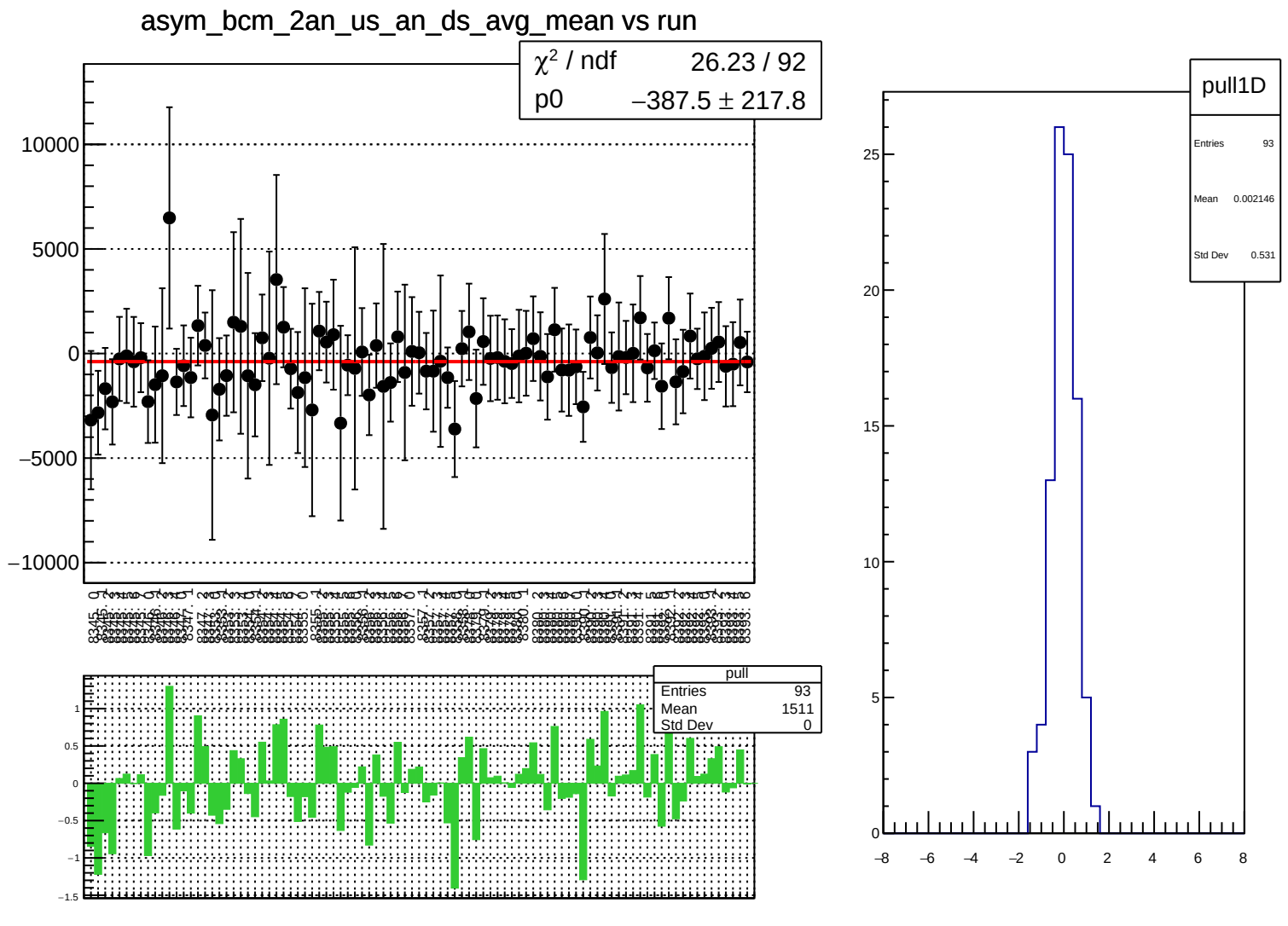

pull1D
Entries 93
Mean −0.4704
Std Dev 3.822
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

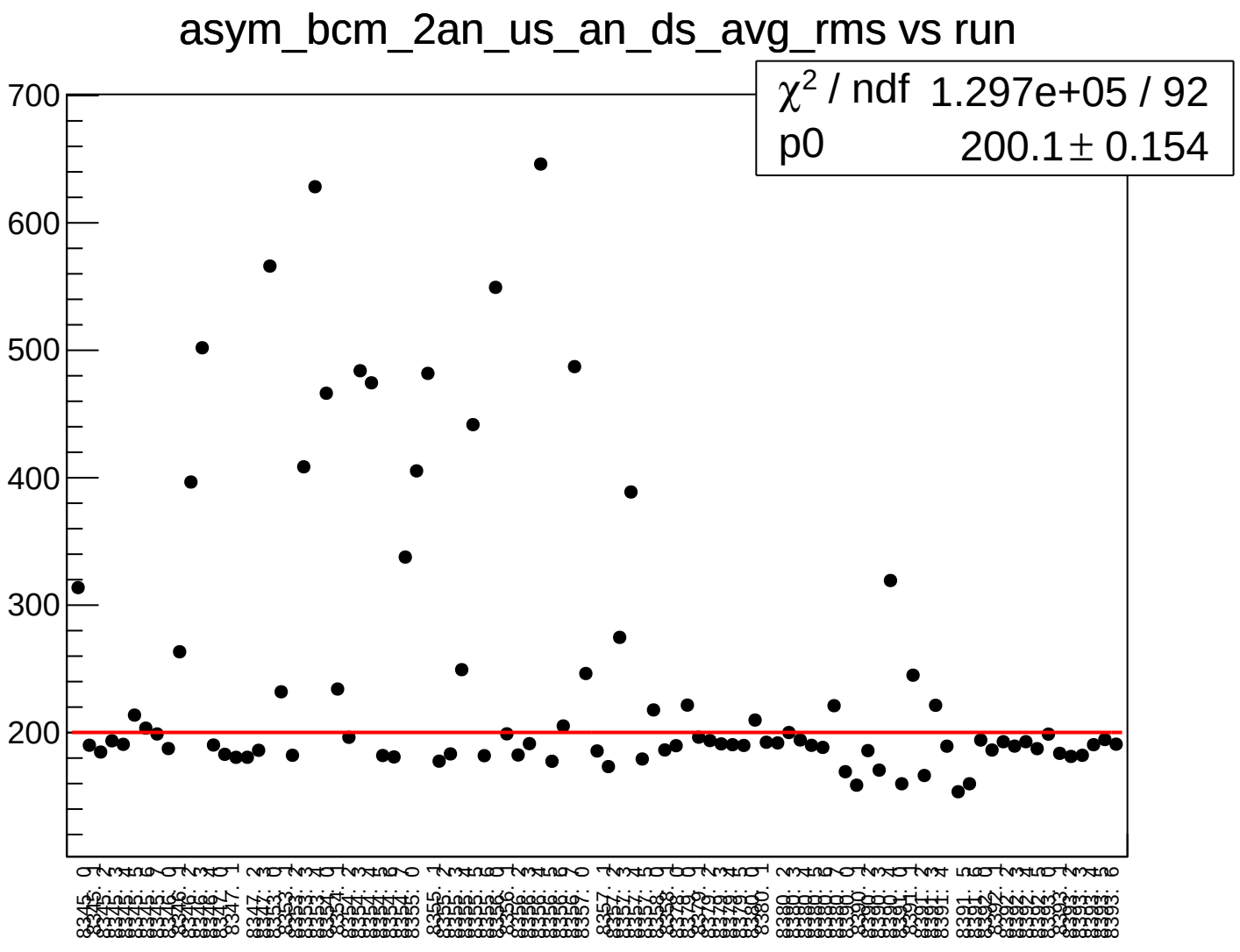

asym_bpm1i04WS_rms vs run
χ^2 / ndf 1.007e+05 / 92
p0 194.5 ± 0.1484
550
500
450
400
350
300
250
200
150

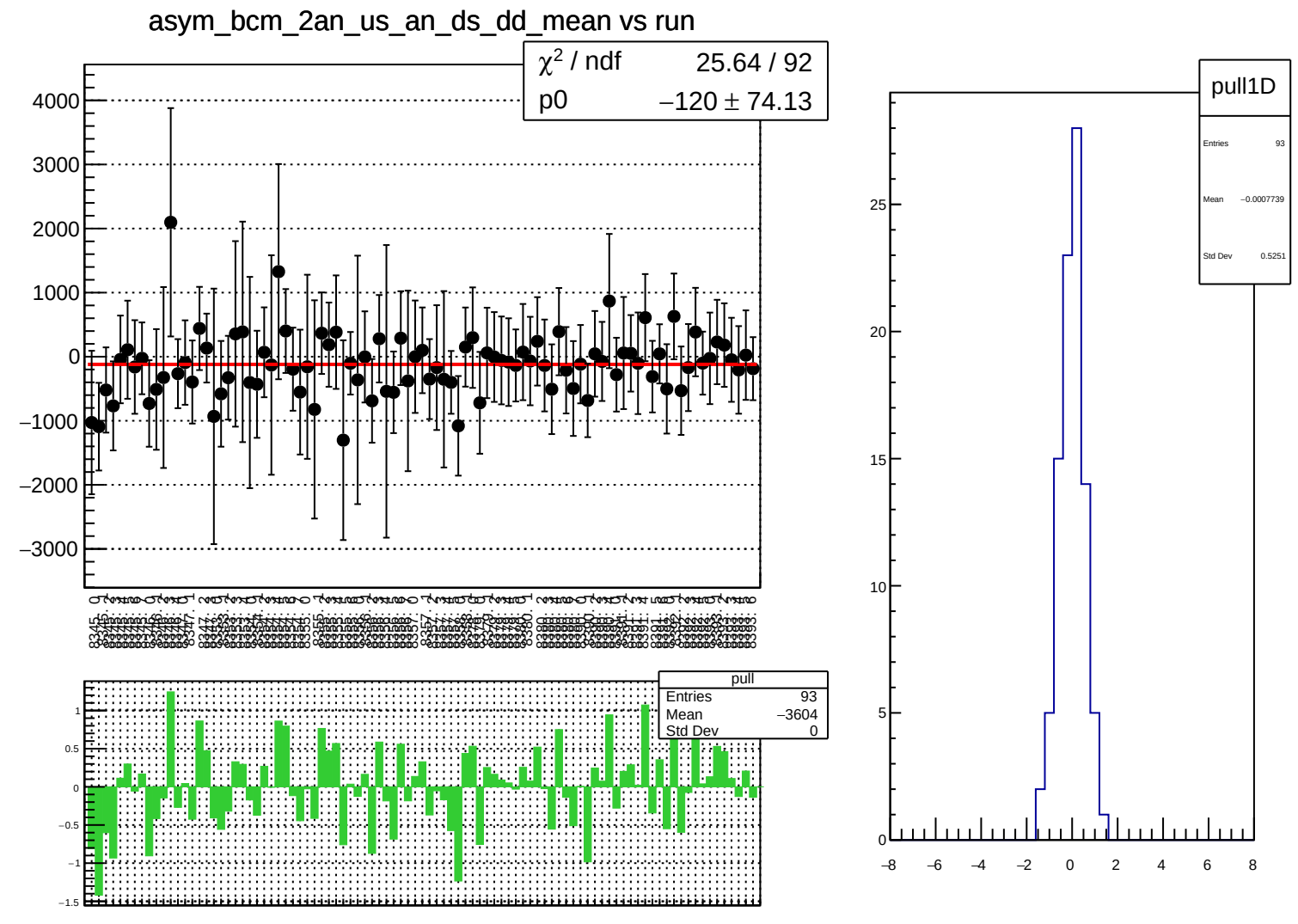

asym_bpm1i06WS_mean vs run
χ² / ndf 1407 / 92
p0 −3274 ± 260.9
20000
10000
0
−10000
−20000
pull
Entries 93
Mean −311.1
Std Dev 0
8
6
4
2
0
−2
−4
−6

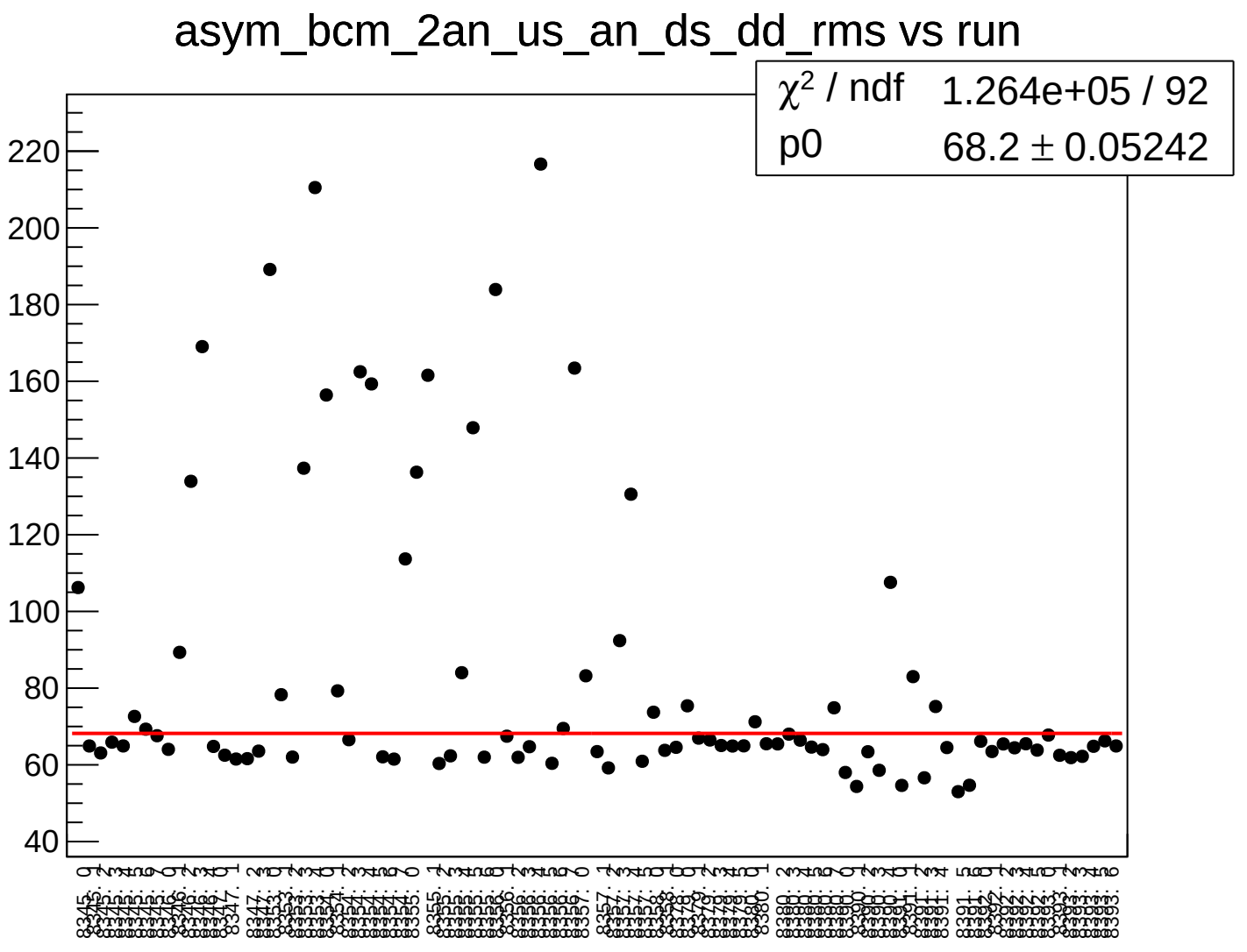

pull1D
Entries 93
Mean −0.4299
Std Dev 3.672
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

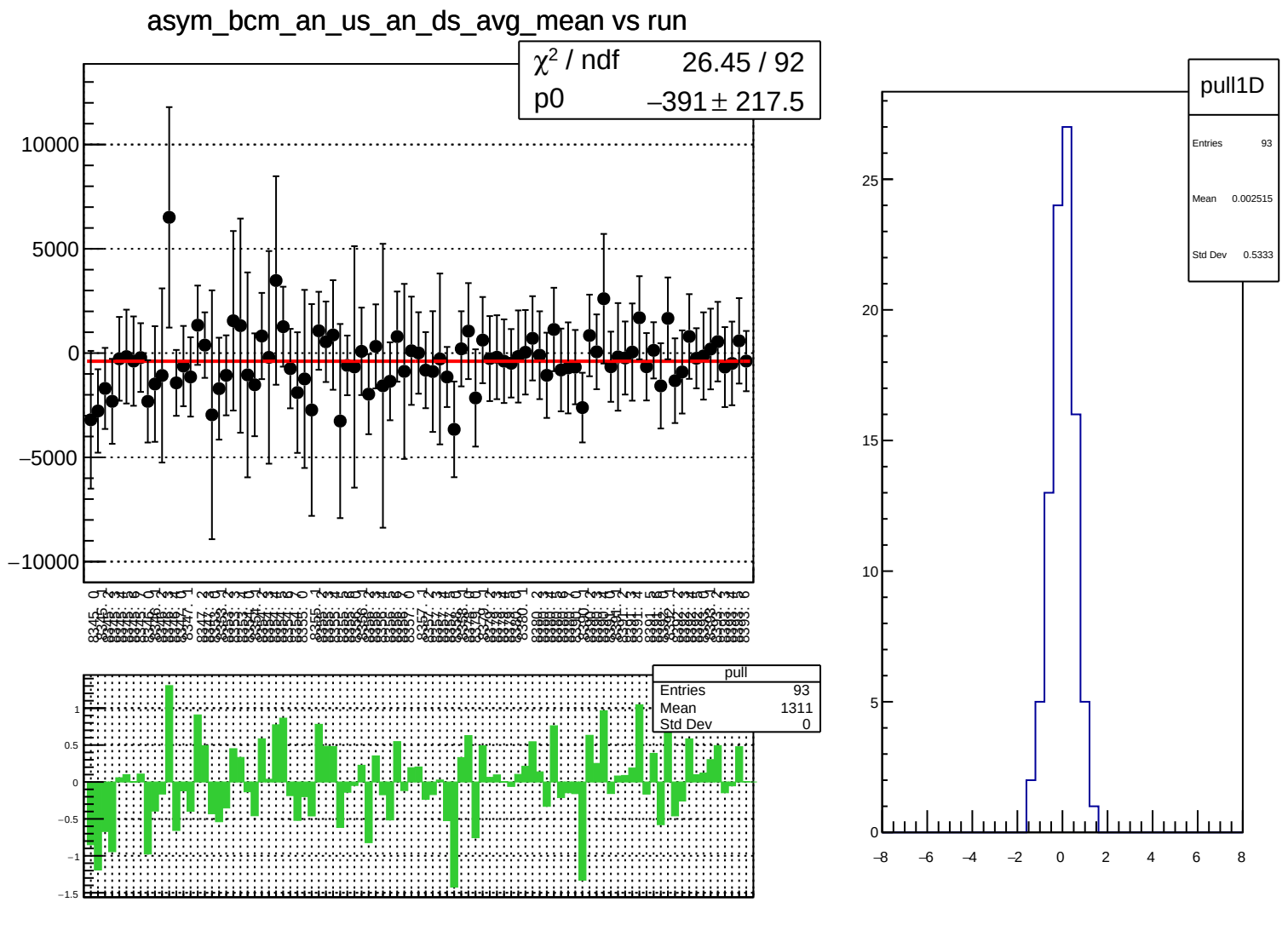

asym_bpm1i06WS_rms vs run
χ^2 / ndf 8.482e+04 / 92
p0 243 ± 0.1845
600
550
500
450
400
350
300
250
200

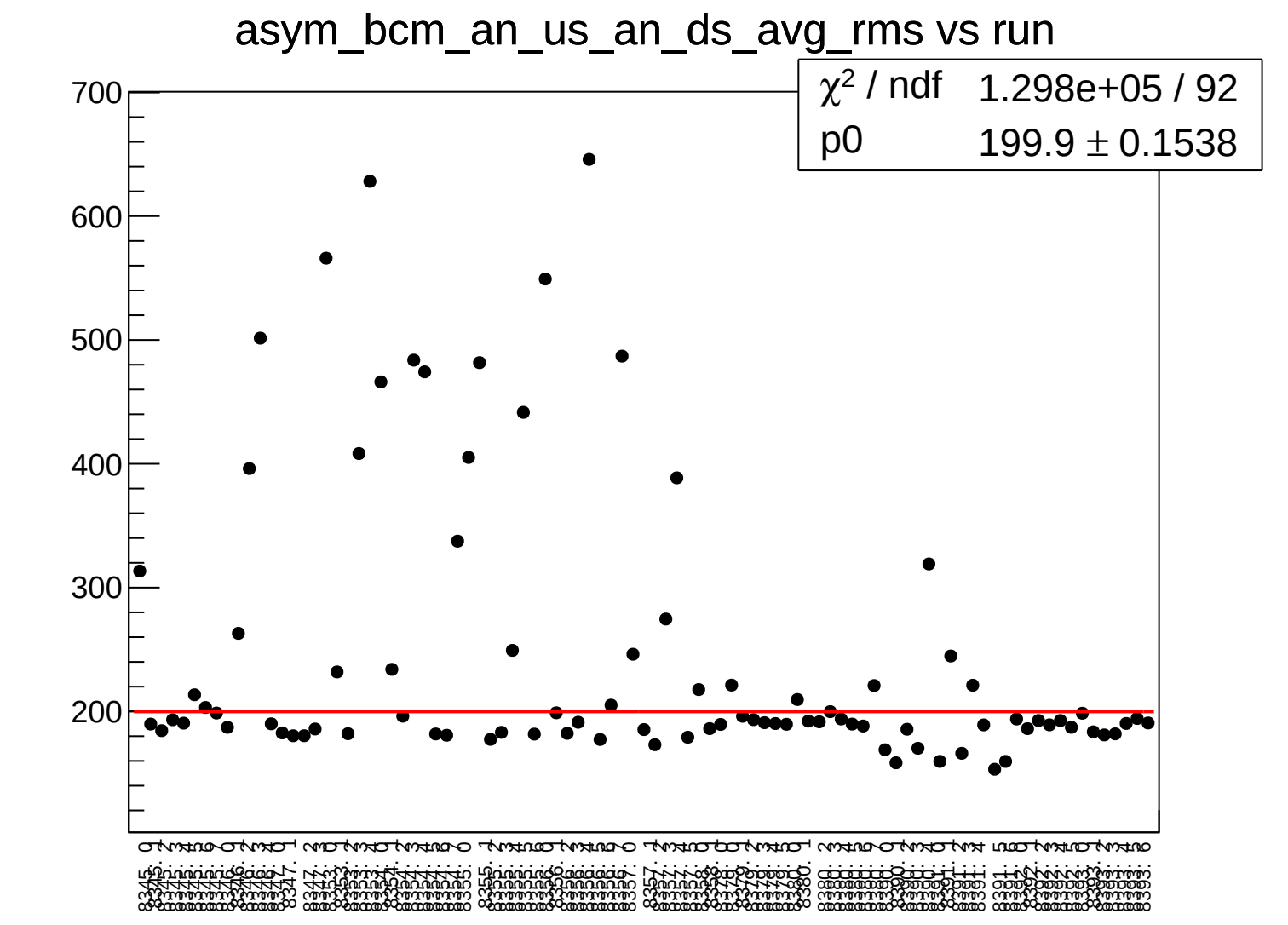

asym_bcm_2an_us_an_ds_avg_mean vs run
χ² / ndf 26.23 / 92
p0 −387.5 ± 217.8
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 1511
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean 0.002146
Std Dev 0.531
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

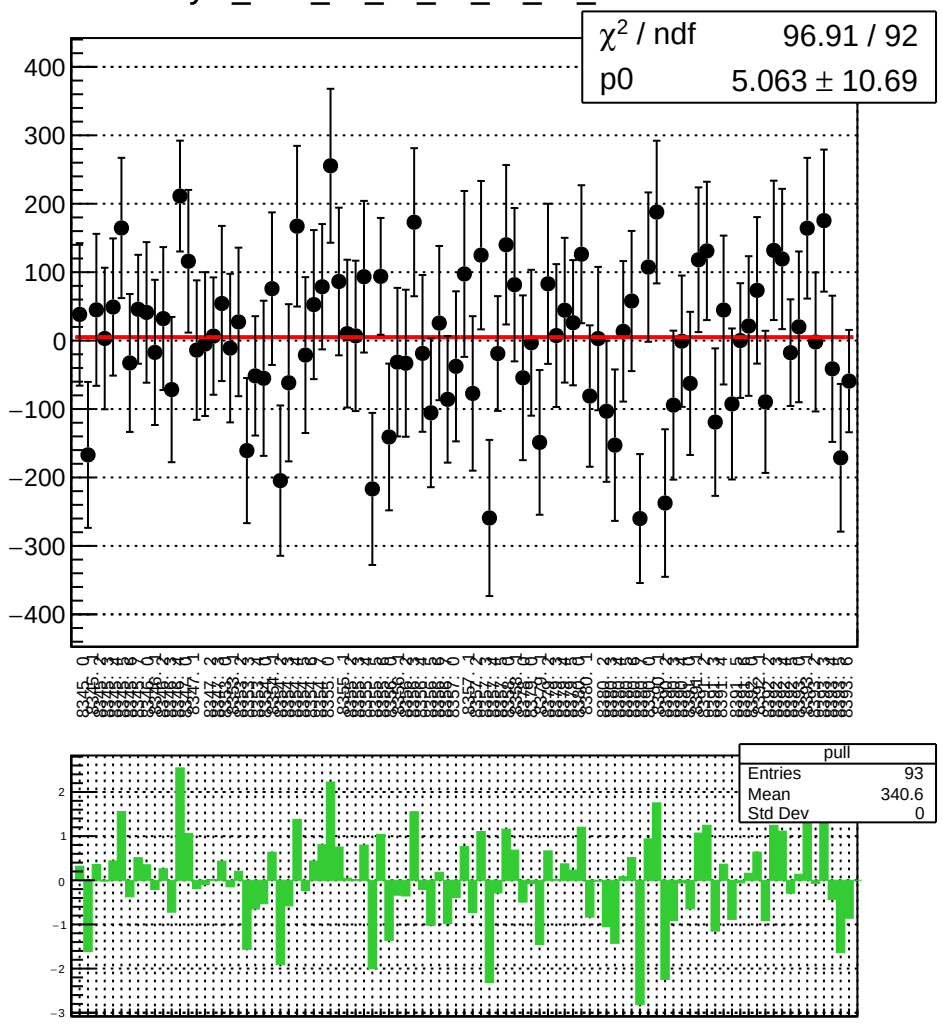

asym_bcm_2an_us_an_ds_avg_rms vs run
χ² / ndf 1.297e+05 / 92
p0 200.1 ± 0.154
700
600
500
400
300
200

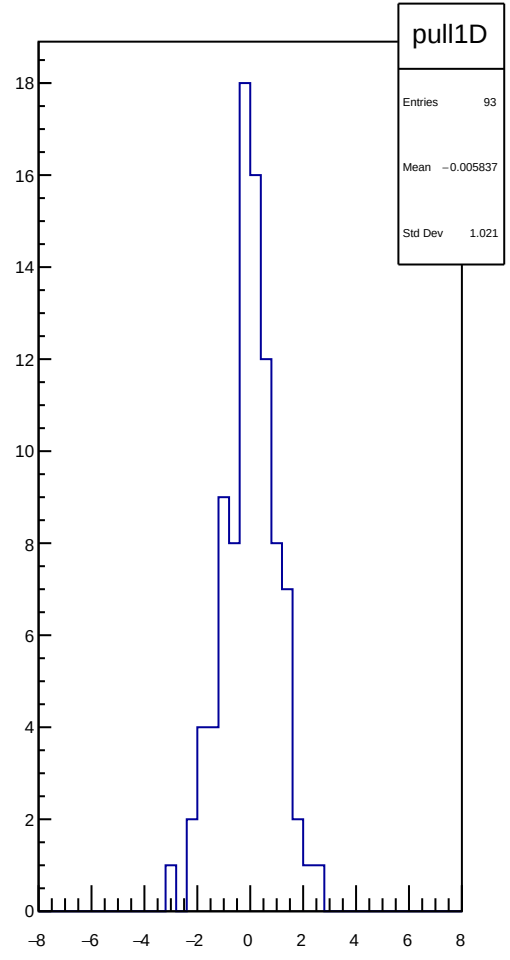

asym_bcm_2an_us_an_ds_dd_mean vs run
χ² / ndf 25.64 / 92
p0 −120 ± 74.13
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean −3604
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean −0.0007739
Std Dev 0.5251
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

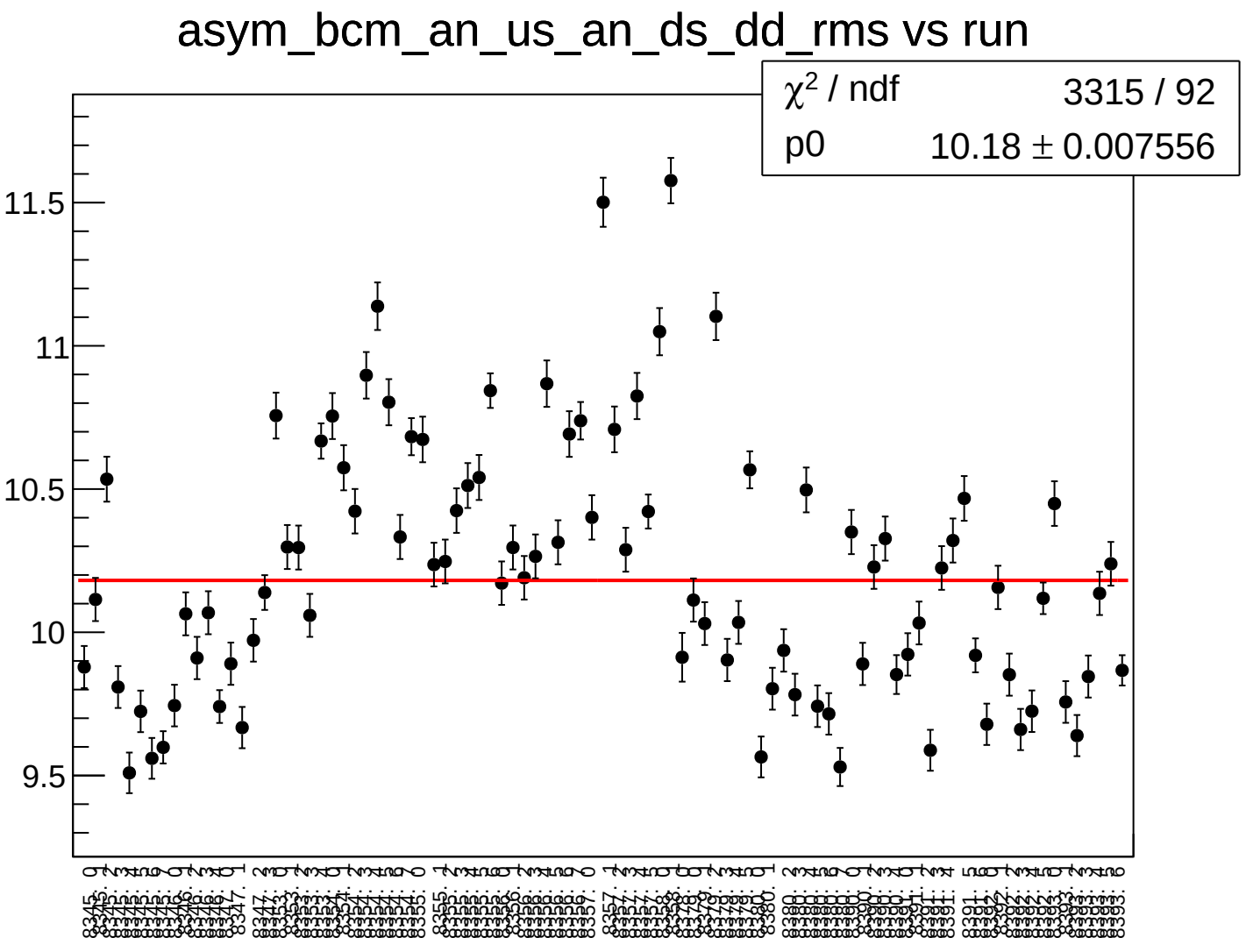

asym_bcm_2an_us_an_ds_dd_rms vs run
χ² / ndf 1.264e+05 / 92
p0 68.2 ± 0.05242
220
200
180
160
140
120
100
80
60
40

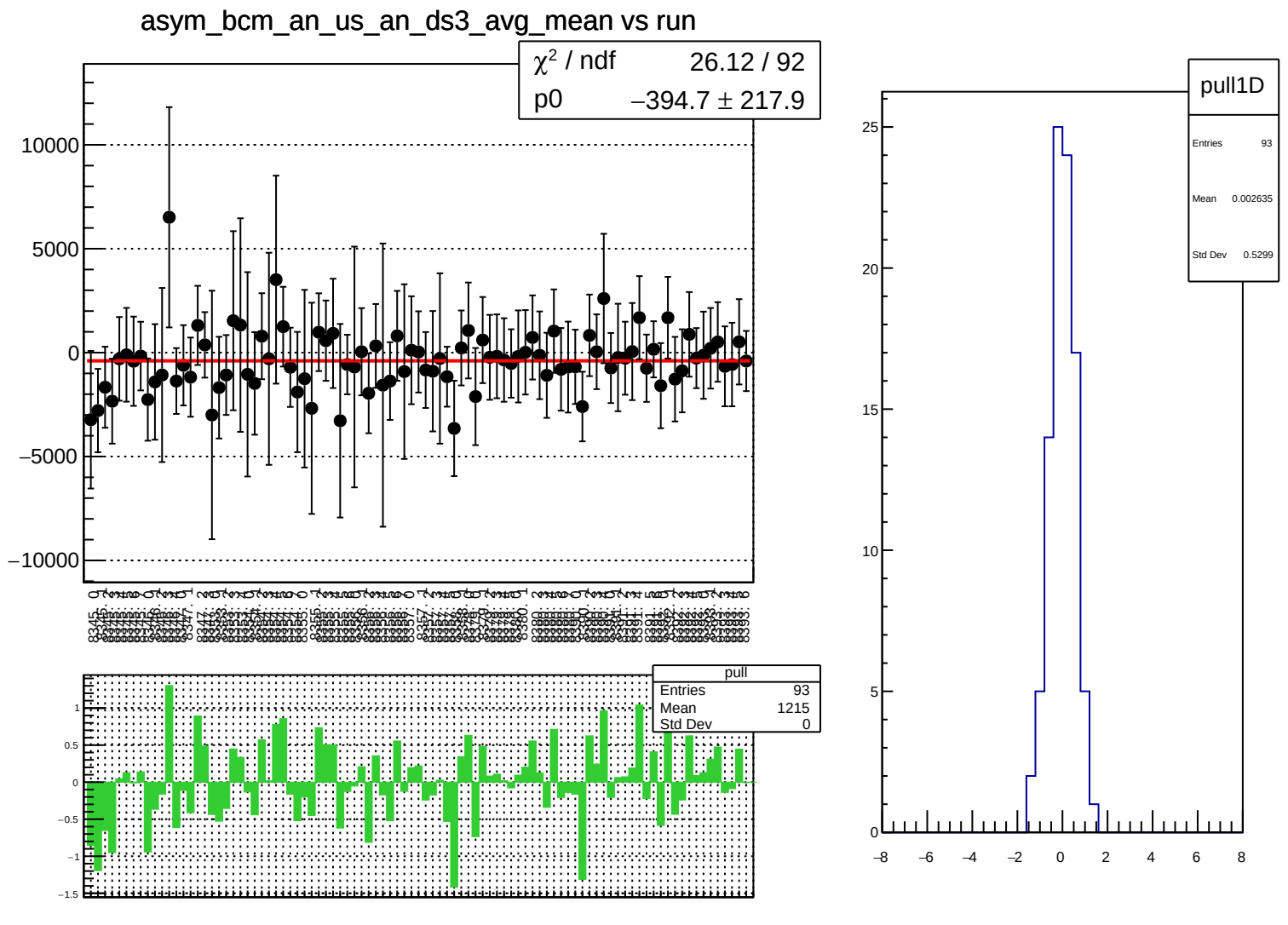

asym_bcm_an_us_an_ds_avg_mean vs run
χ² / ndf 26.45 / 92
p0 −391 ± 217.5
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 1311
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean 0.002515
Std Dev 0.5333
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

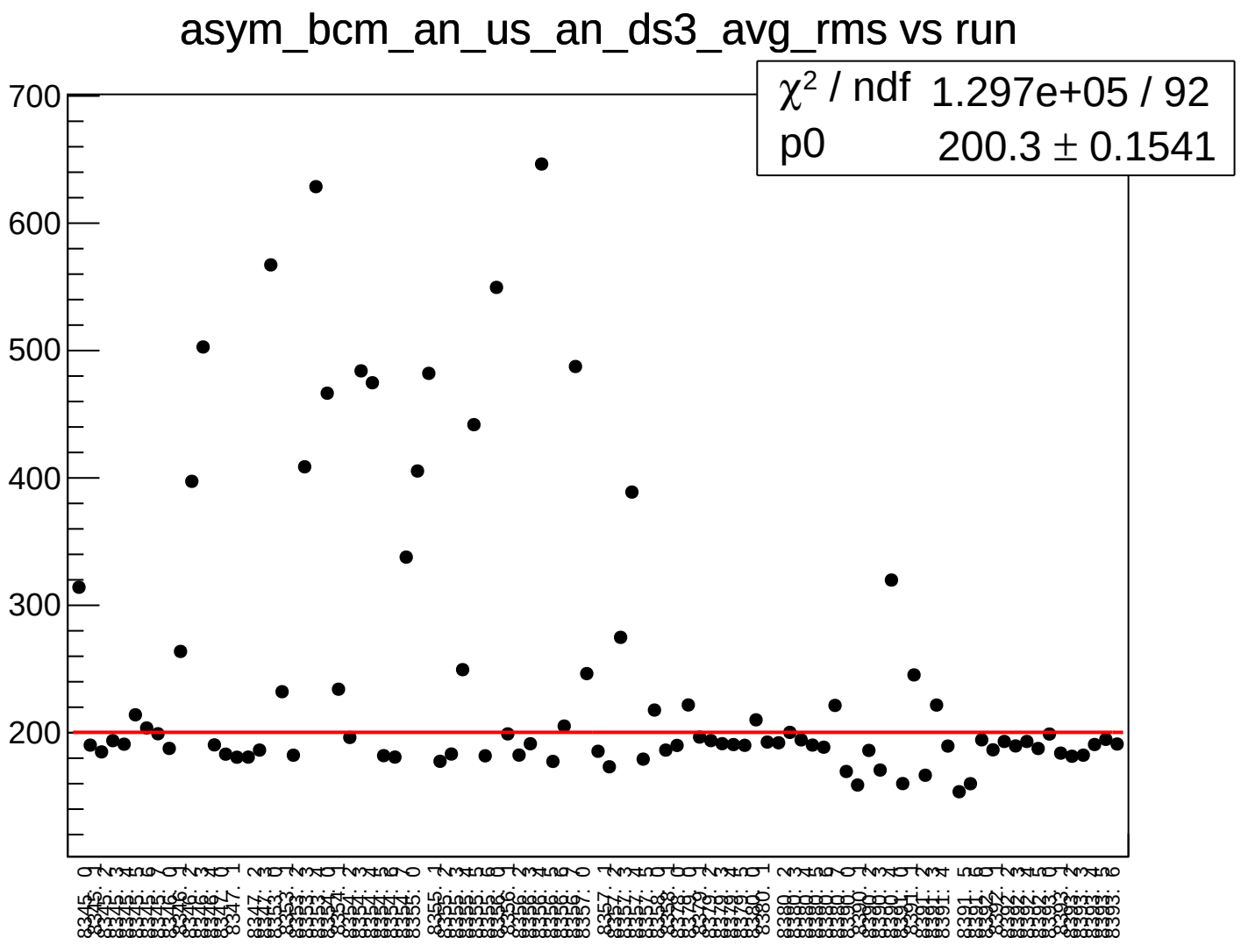

asym_bcm_an_us_an_ds_avg_rms vs run
χ² / ndf 1.298e+05 / 92
p0 199.9 ± 0.1538
700
600
500
400
300
200

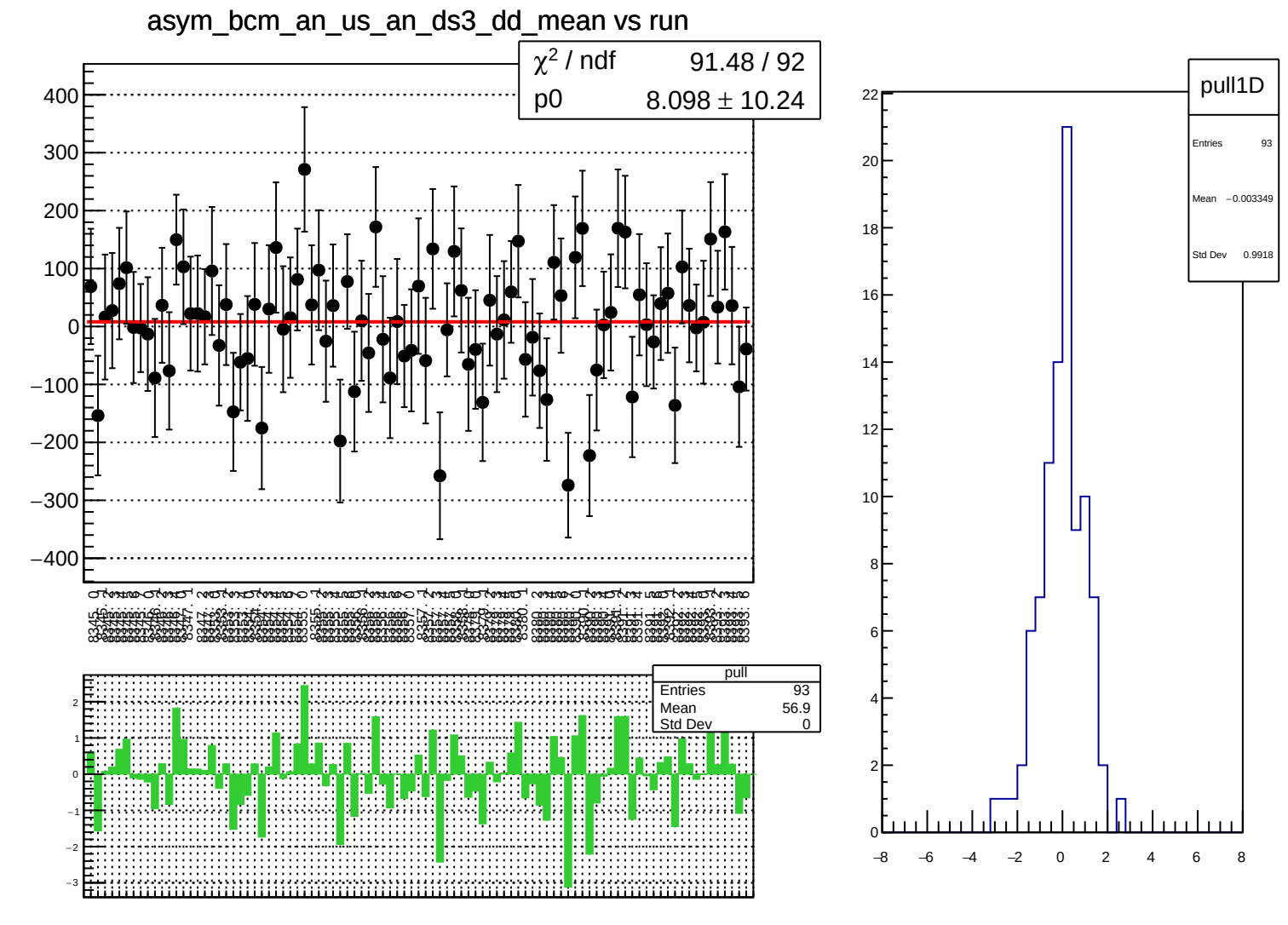

asym_bcm_an_us_an_ds_dd_mean vs run
χ² / ndf 96.91 / 92
p0 5.063 ± 10.69
pull
Entries 93
Mean 340.6
Std Dev 0

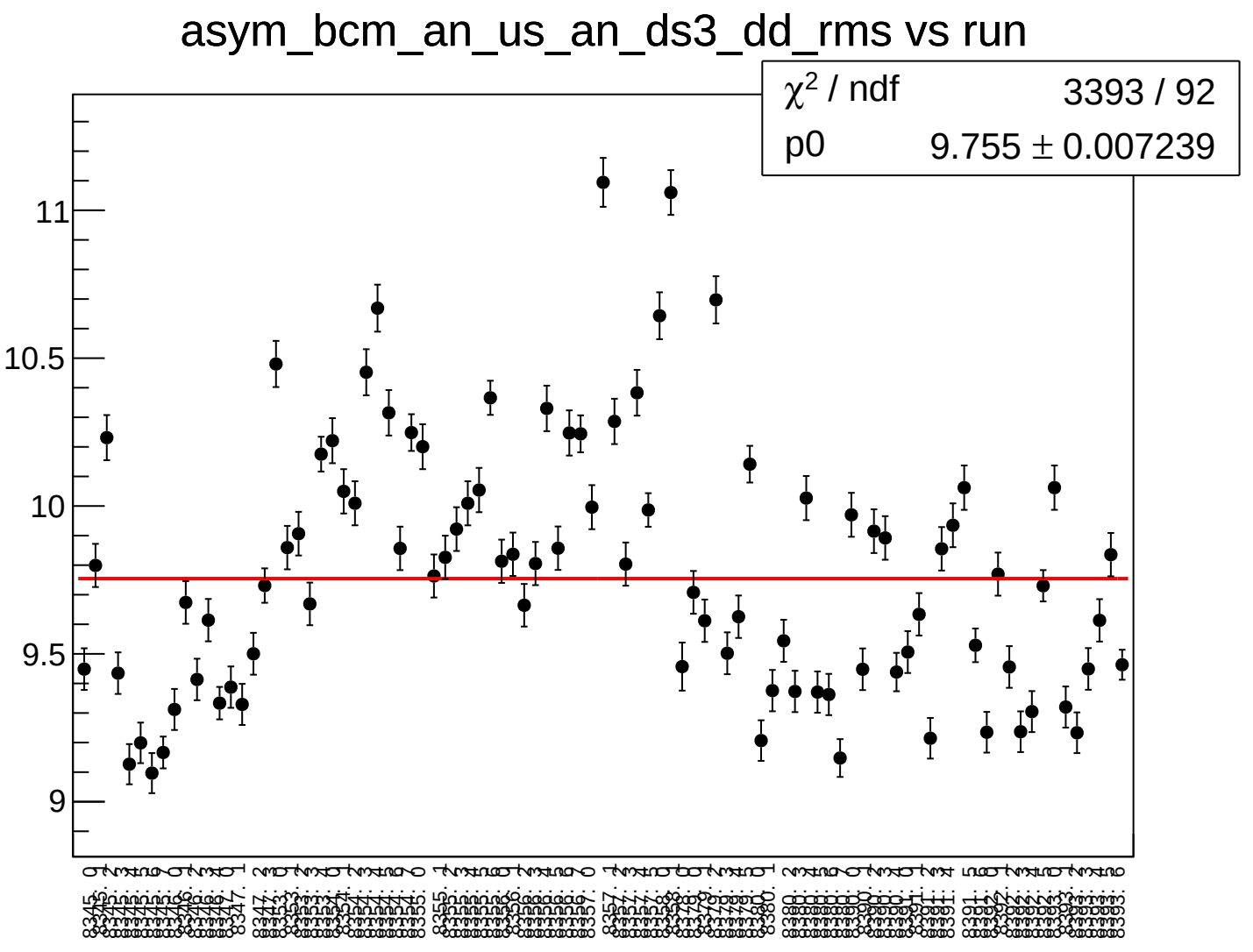

pull1D
Entries 93
Mean −0.005837
Std Dev 1.021

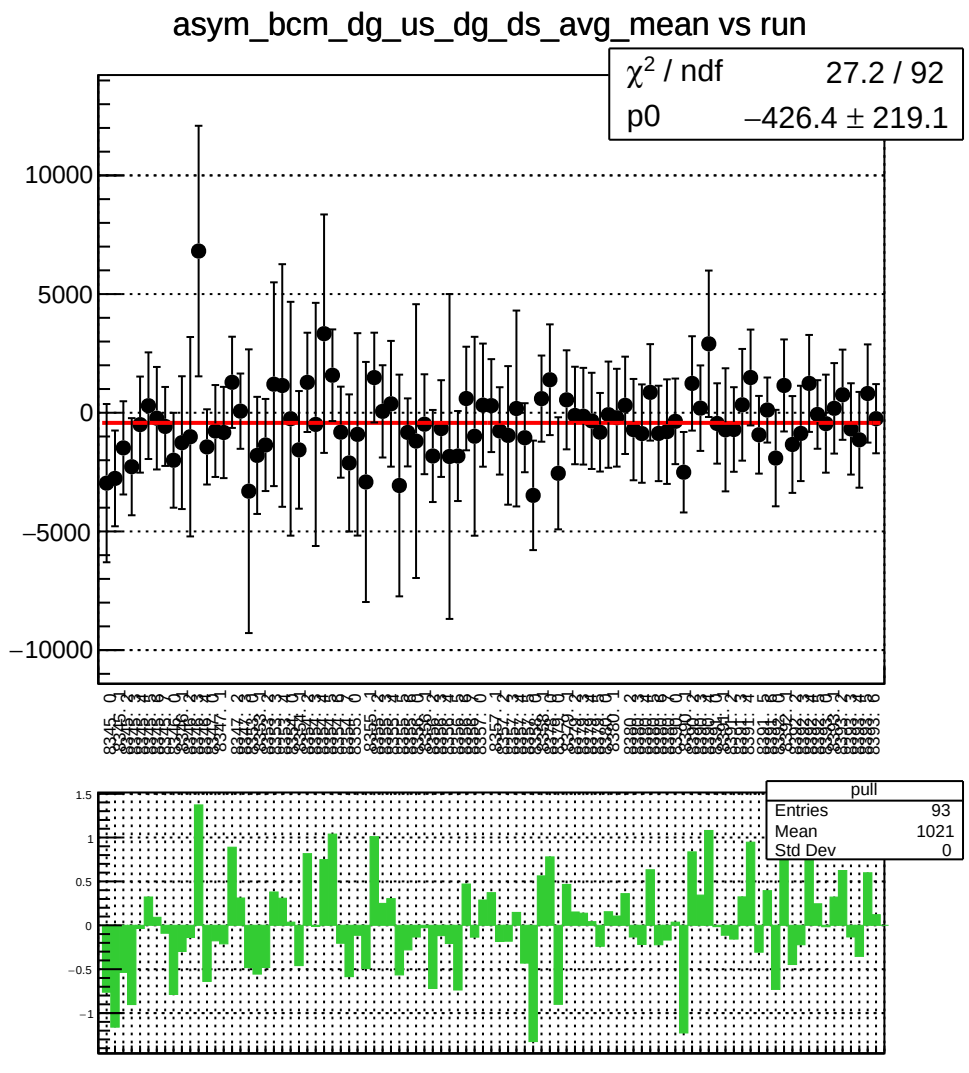

asym_bcm_an_us_an_ds_dd_rms vs run
χ² / ndf 3315 / 92
p0 10.18 ± 0.007556
11.5
11
10.5
10
9.5

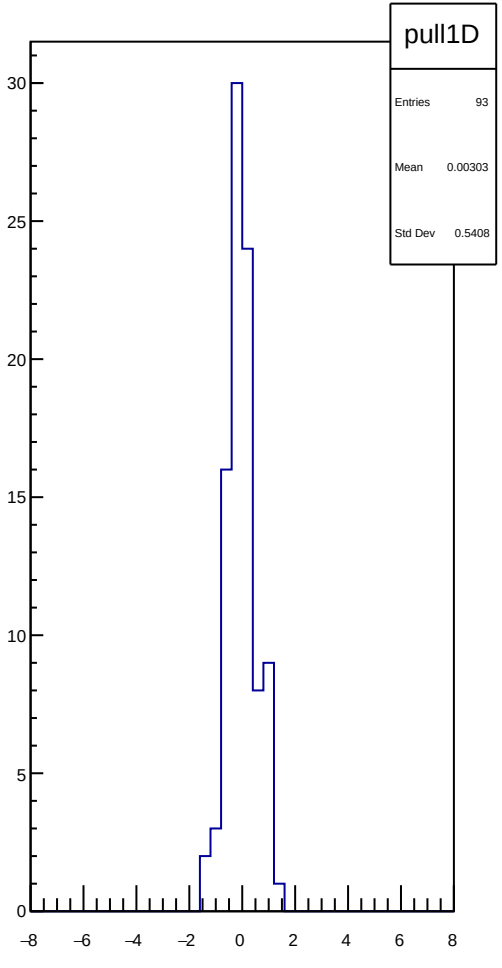

asym_bcm_an_us_an_ds3_avg_mean vs run
χ² / ndf 26.12 / 92
p0 −394.7 ± 217.9
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 1215
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean 0.002635
Std Dev 0.5299
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

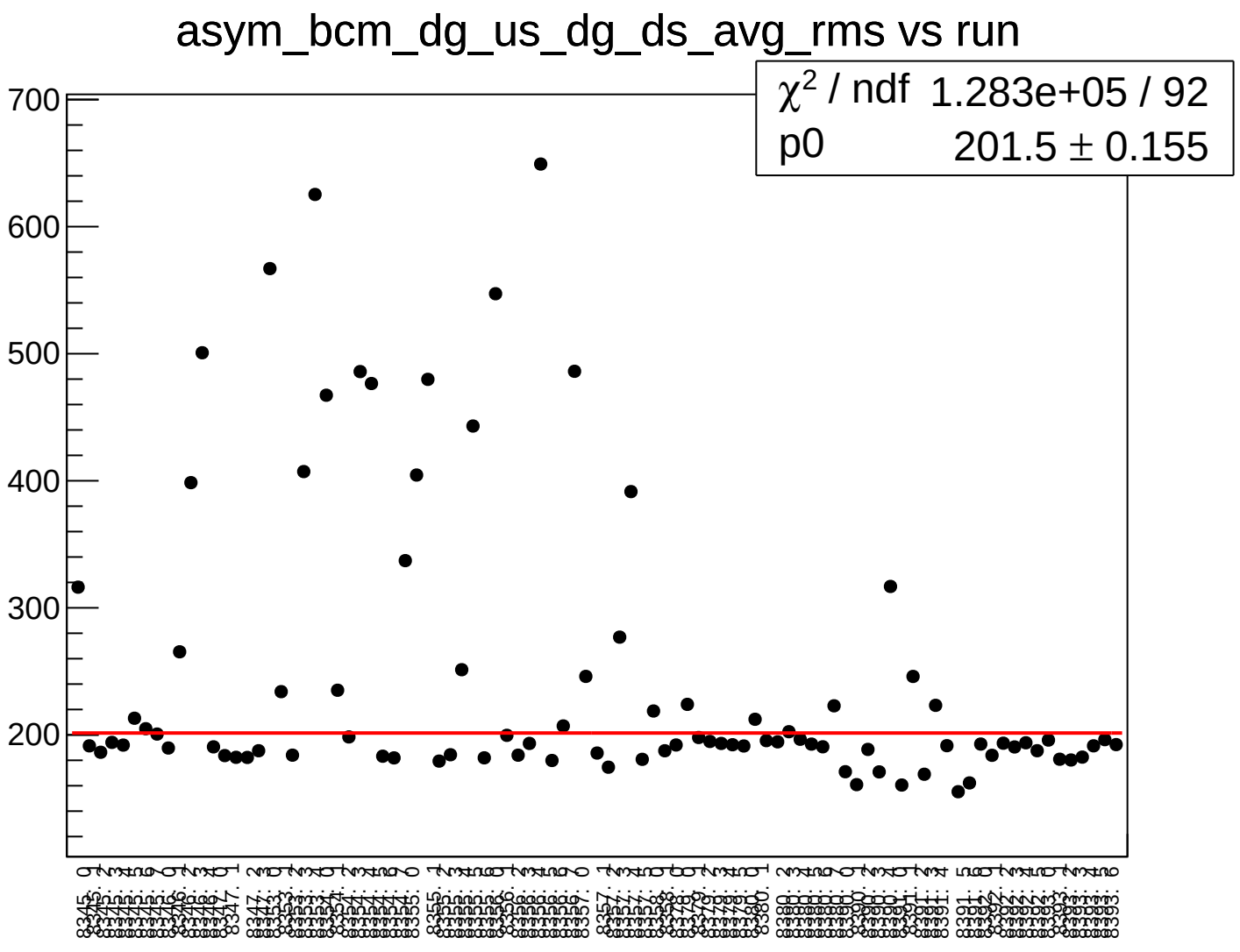

asym_bcm_an_us_an_ds3_avg_rms vs run
χ² / ndf 1.297e+05 / 92
p0 200.3 ± 0.1541
700
600
500
400
300
200

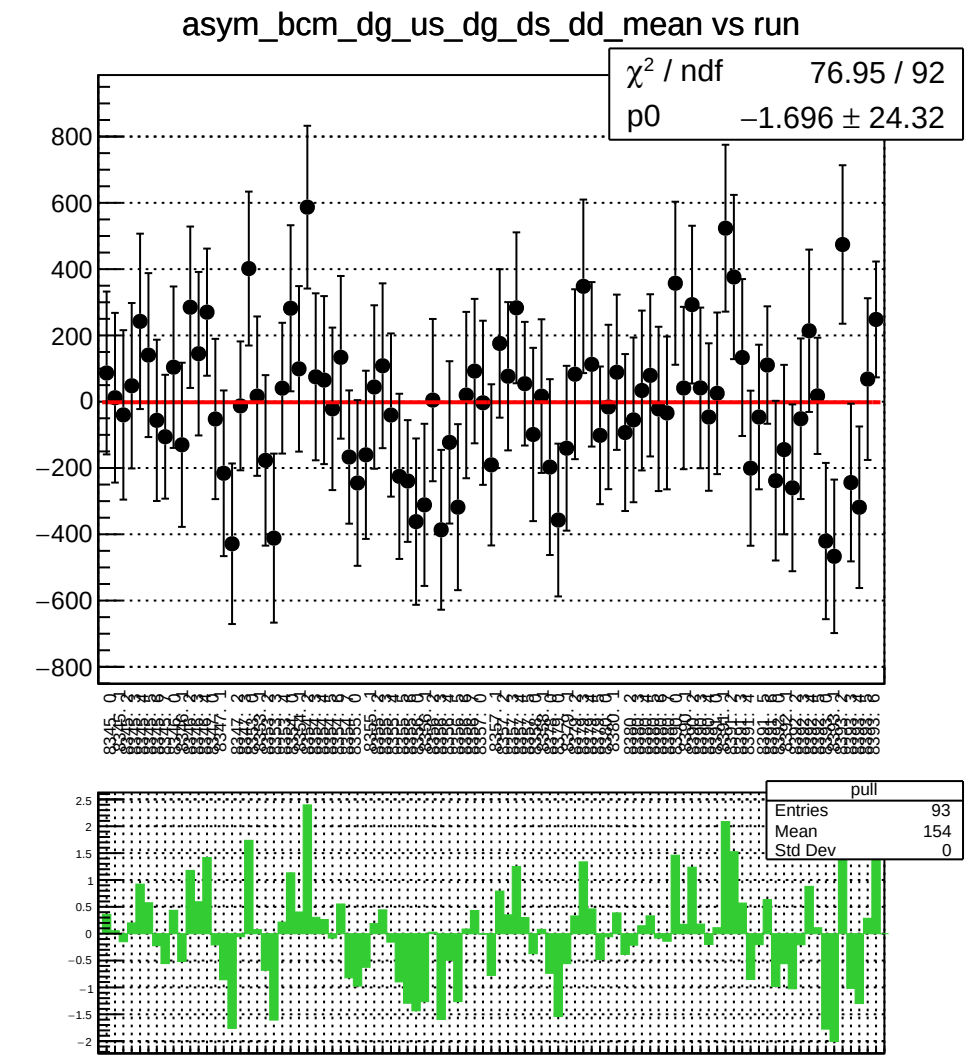

asym_bcm_an_us_an_ds3_dd_mean vs run
χ² / ndf 91.48 / 92
p0 8.098 ± 10.24
pull
Entries 93
Mean 56.9
Std Dev 0
pull1D
Entries 93
Mean −0.003349
Std Dev 0.9918

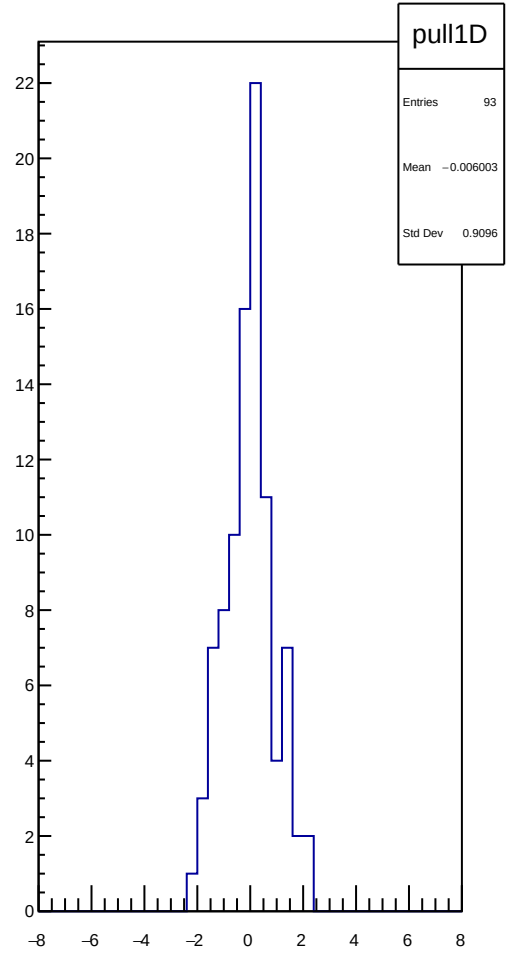

asym_bcm_an_us_an_ds3_dd_rms vs run
χ² / ndf 3393 / 92
p0 9.755 ± 0.007239
11
10.5
10
9.5
9

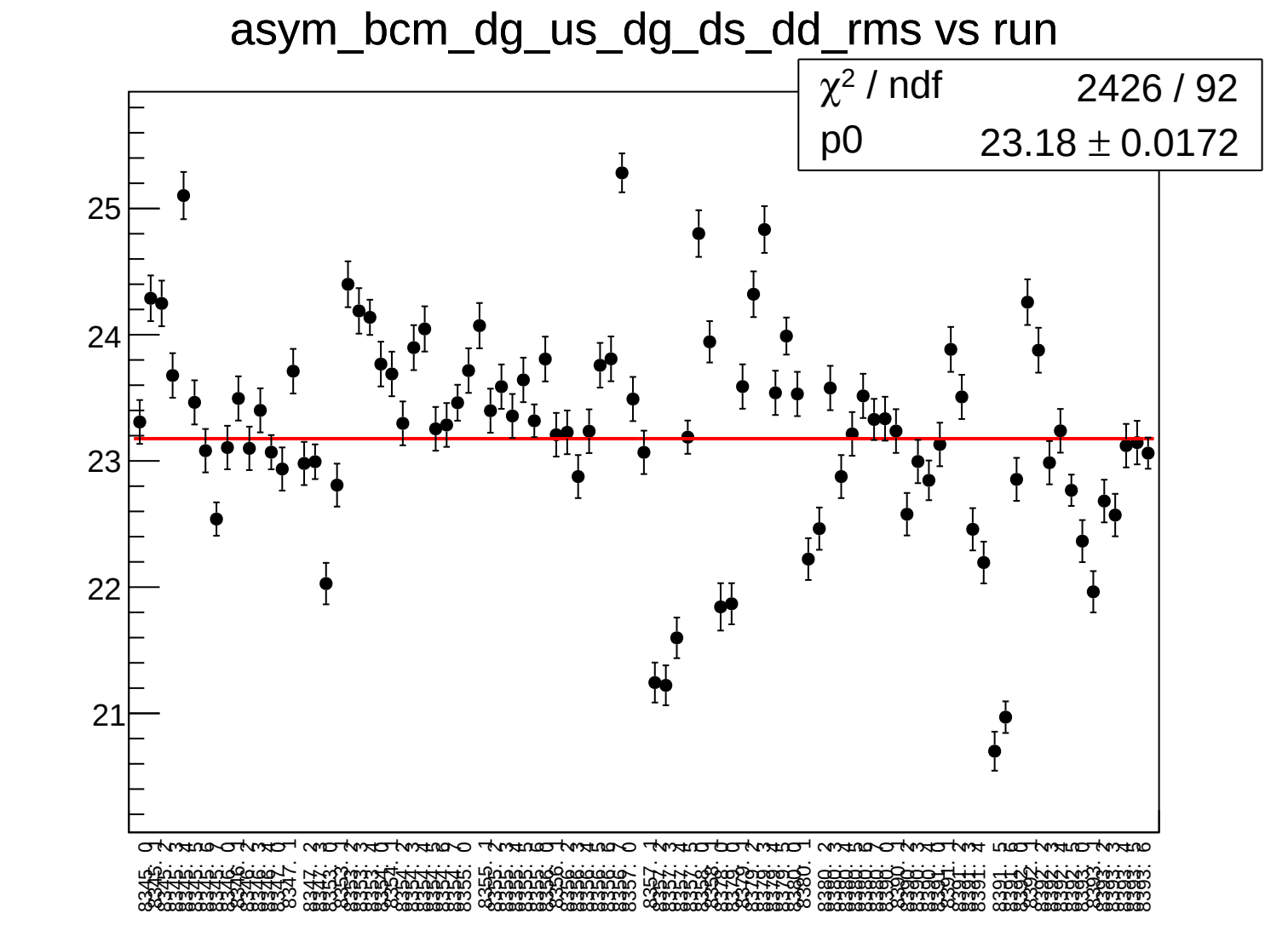

asym_bcm_dg_us_dg_ds_avg_mean vs run
χ² / ndf 27.2 / 92
p0 −426.4 ± 219.1
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 1021
Std Dev 0
1.5
1
0.5
0
−0.5
−1

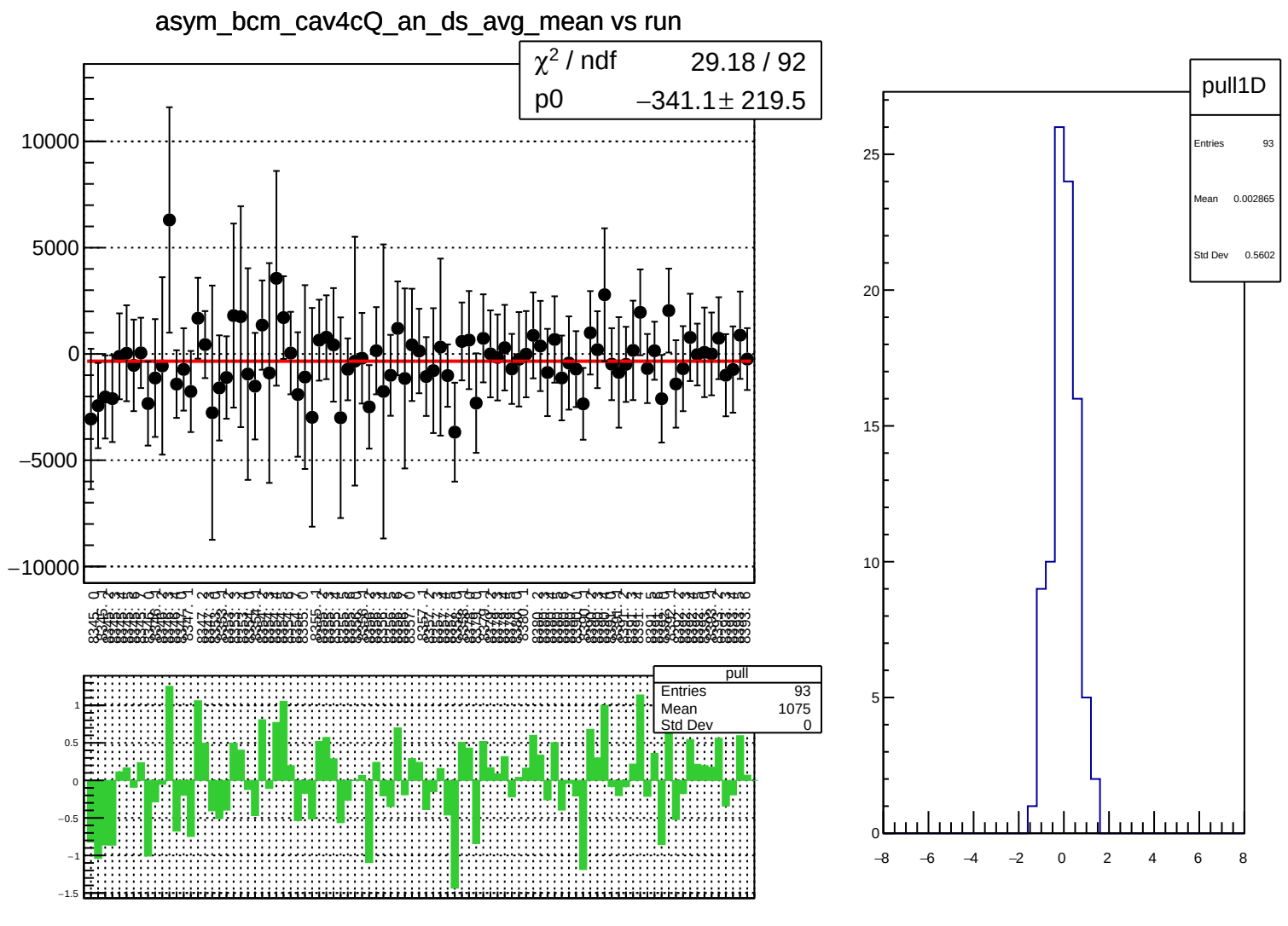

pull1D
Entries 93
Mean 0.00303
Std Dev 0.5408
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

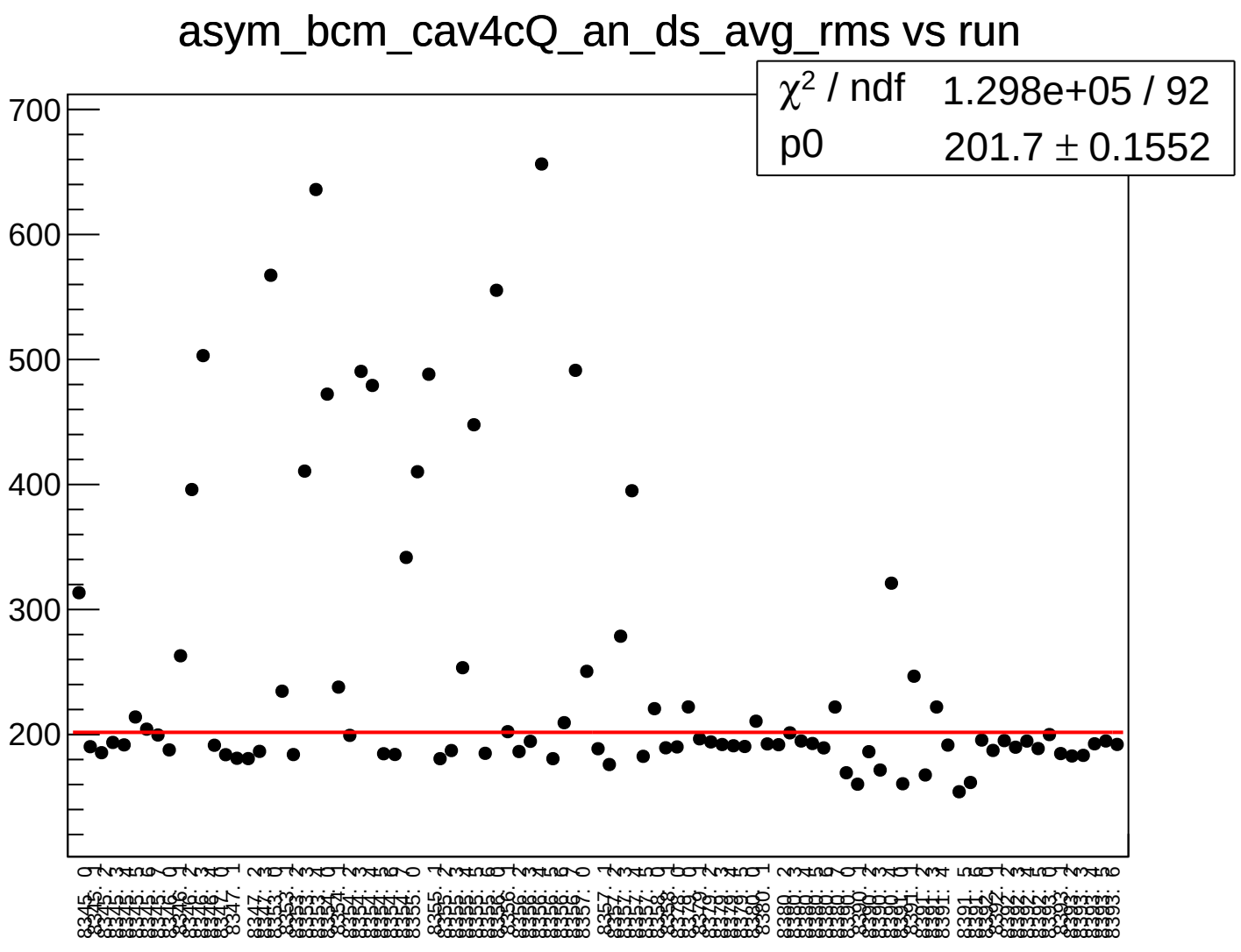

asym_bcm_dg_us_dg_ds_avg_rms vs run
χ² / ndf 1.283e+05 / 92
p0 201.5 ± 0.155
700
600
500
400
300
200

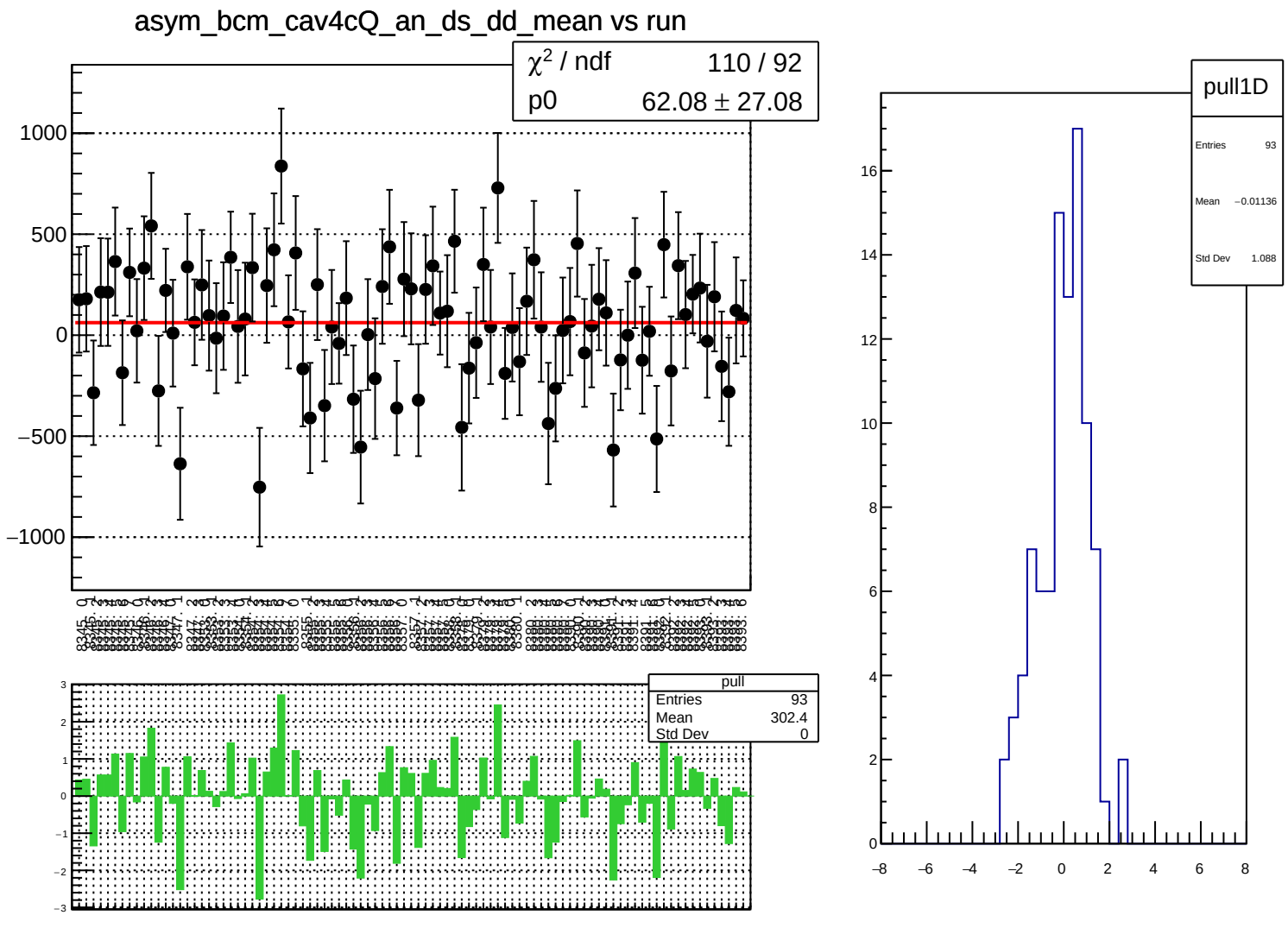

asym_bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 76.95 / 92
p0 −1.696 ± 24.32
pull
Entries 93
Mean 154
Std Dev 0

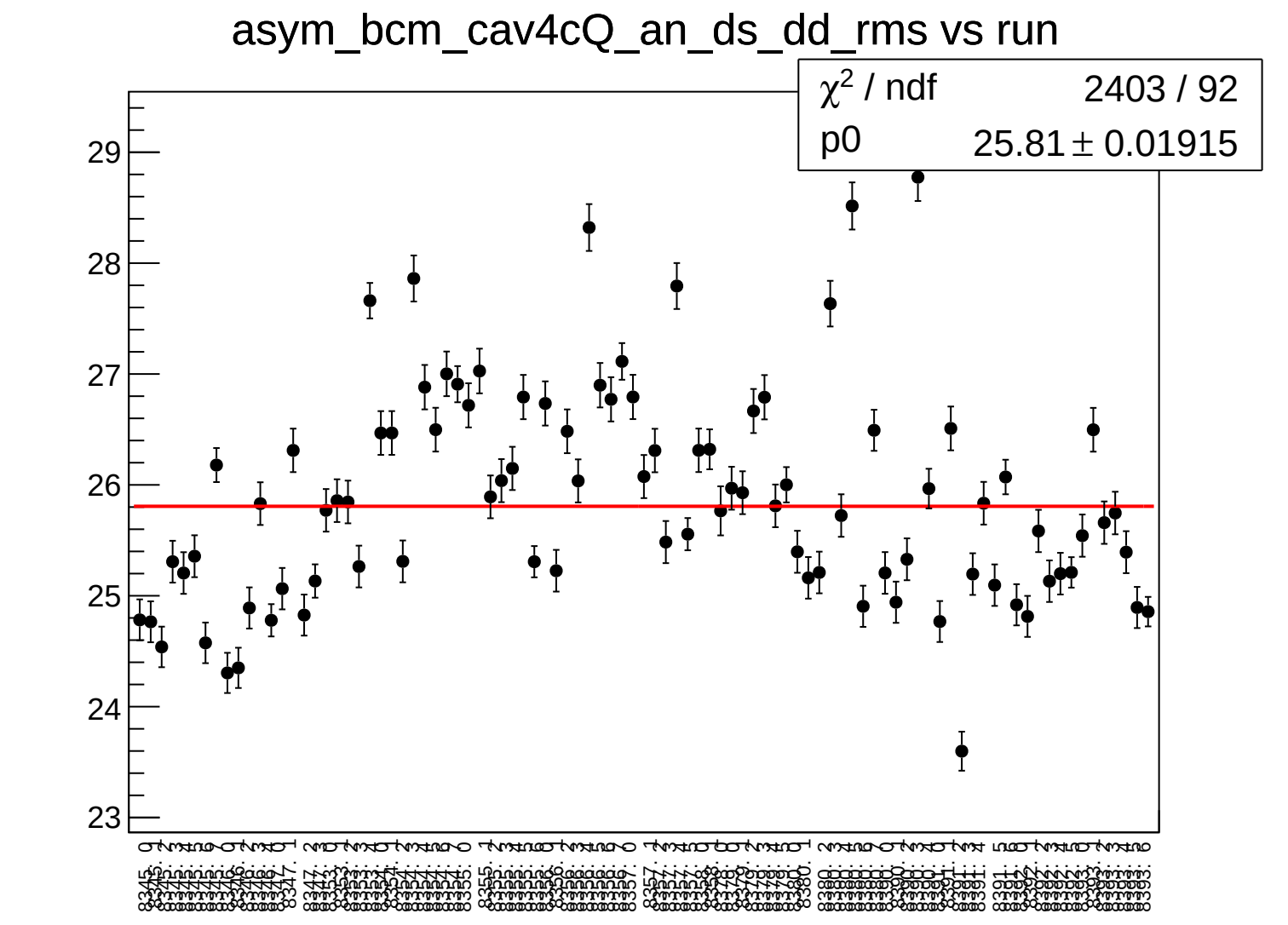

pull1D
Entries 93
Mean −0.006003
Std Dev 0.9096

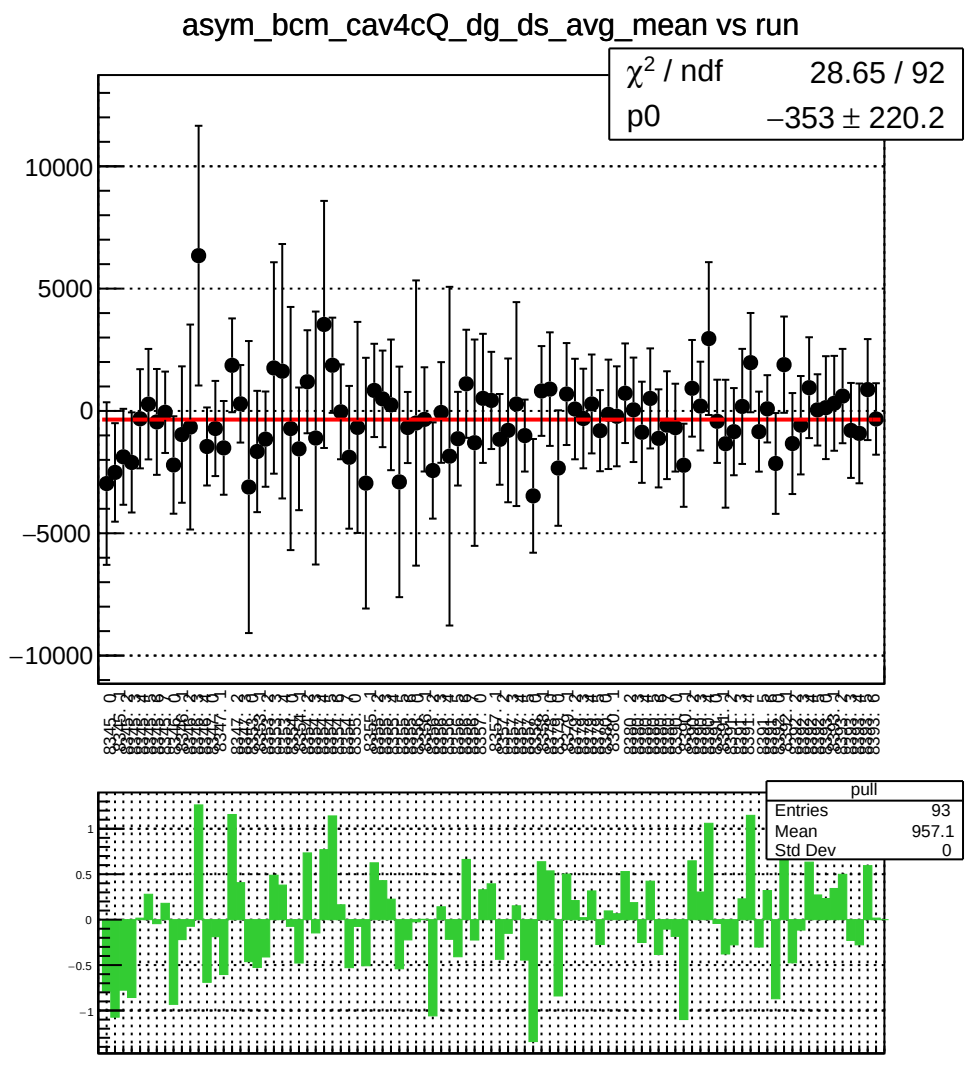

asym_bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 2426 / 92
p0 23.18 ± 0.0172
25
24
23
22
21

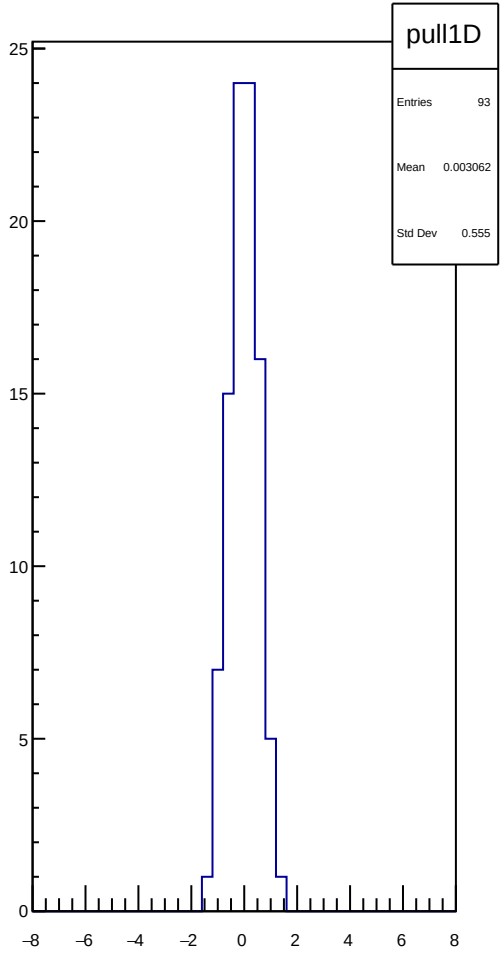

asym_bcm_cav4cQ_an_ds_avg_mean vs run
χ² / ndf 29.18 / 92
p0 −341.1± 219.5
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 1075
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean 0.002865
Std Dev 0.5602
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

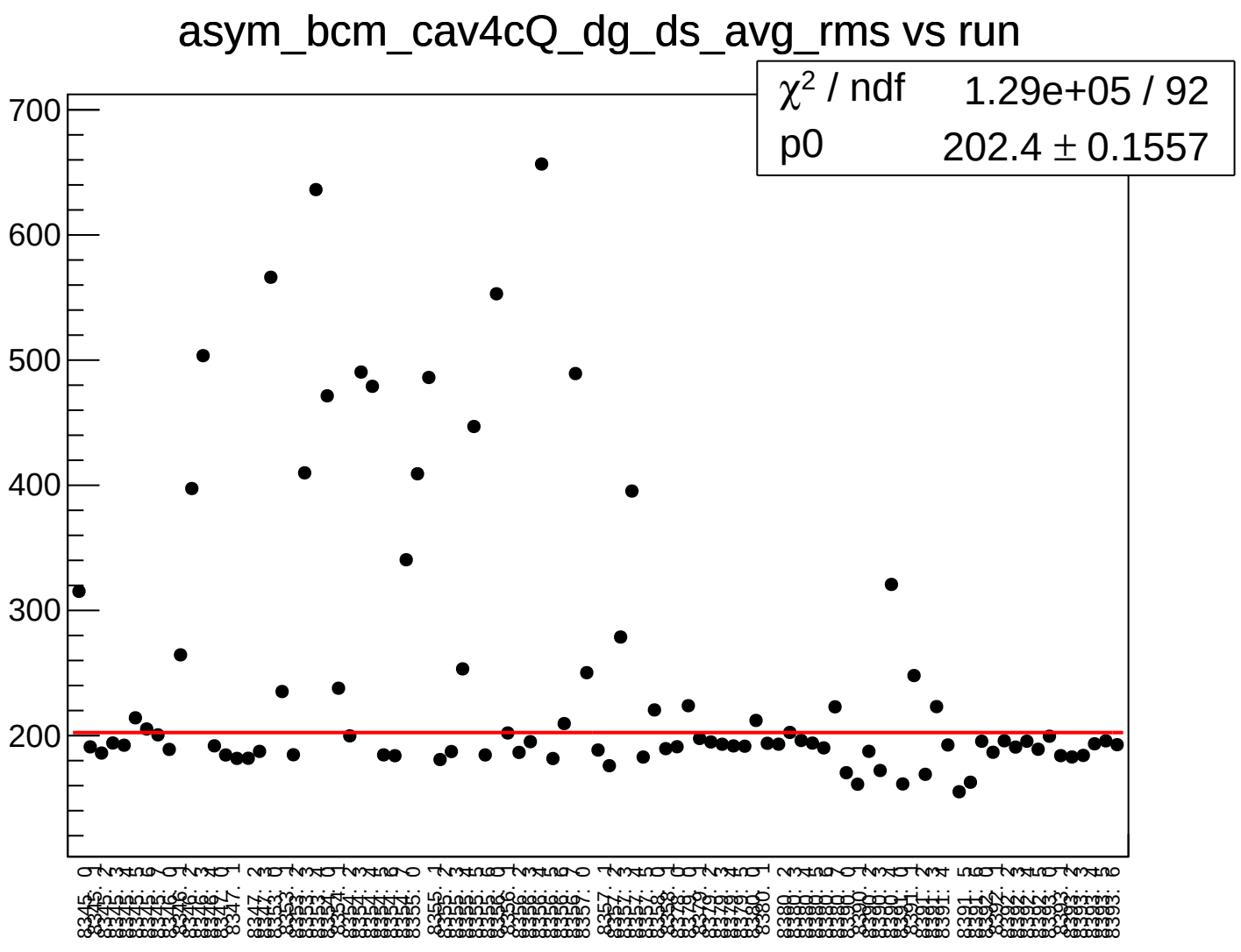

asym_bcm_cav4cQ_an_ds_avg_rms vs run
χ² / ndf 1.298e+05 / 92
p0 201.7 ± 0.1552
700
600
500
400
300
200

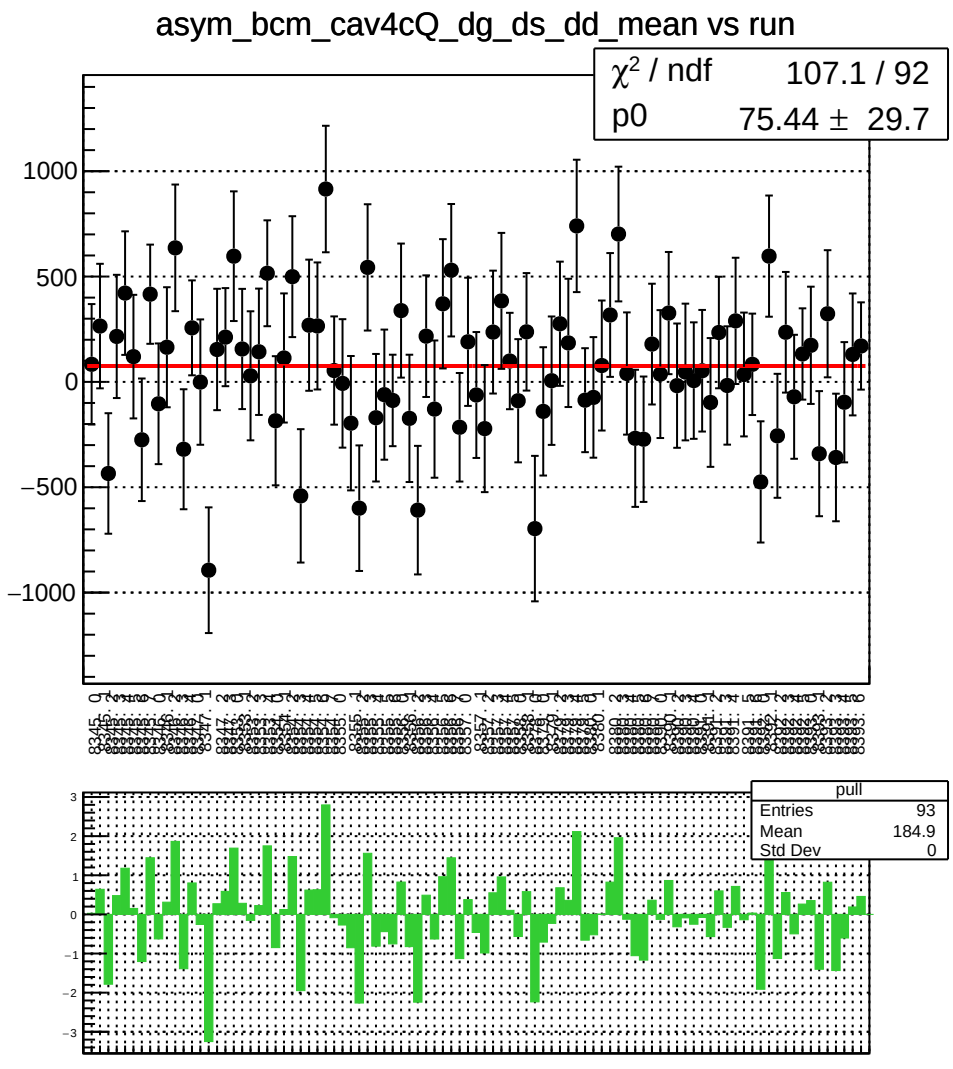

asym_bcm_cav4cQ_an_ds_dd_mean vs run
χ² / ndf 110 / 92
p0 62.08 ± 27.08
1000
500
0
−500
−1000
pull
Entries 93
Mean 302.4
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.01136
Std Dev 1.088
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

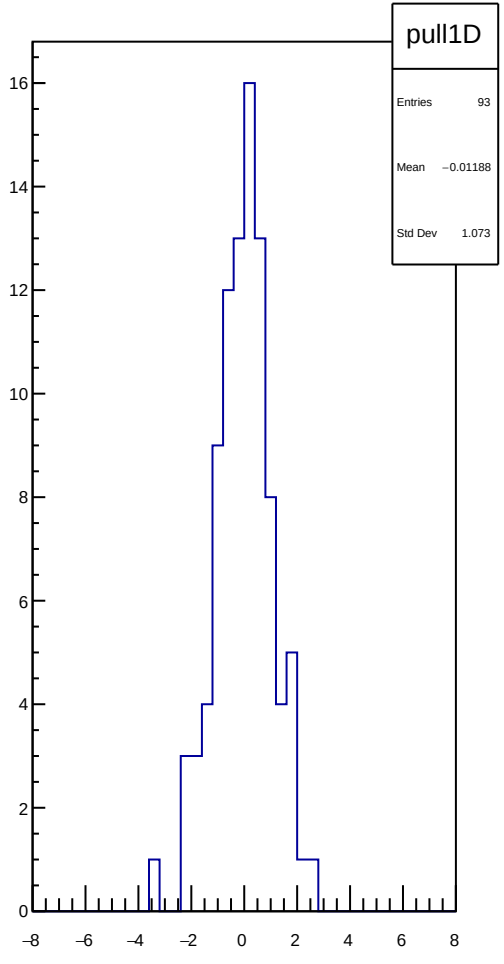

asym_bcm_cav4cQ_an_ds_dd_rms vs run
χ² / ndf 2403 / 92
p0 25.81 ± 0.01915
29
28
27
26
25
24
23

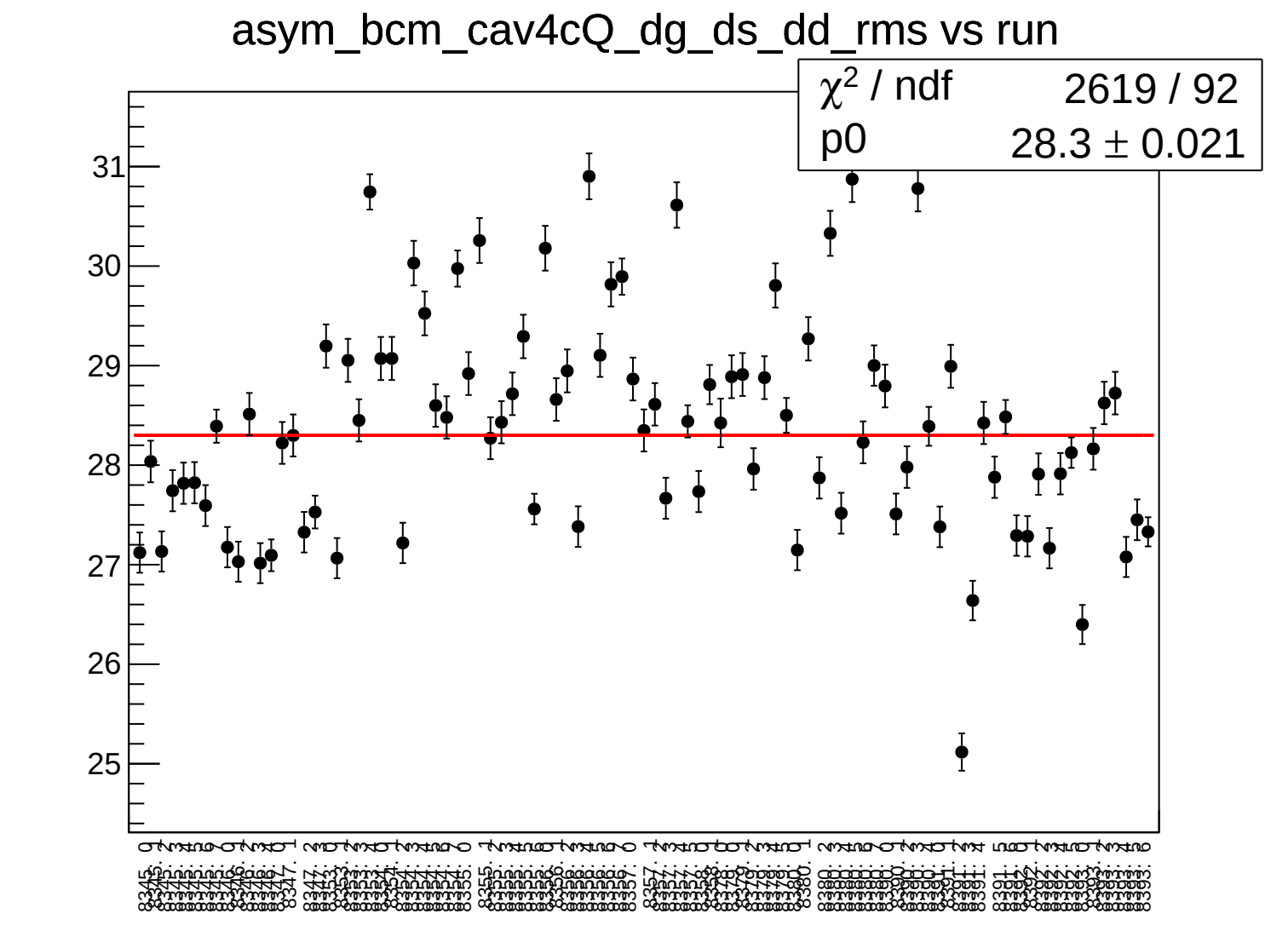

asym_bcm_cav4cQ_dg_ds_avg_mean vs run
χ² / ndf 28.65 / 92
p0 −353 ± 220.2
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 957.1
Std Dev 0
1
0.5
0
−0.5
−1

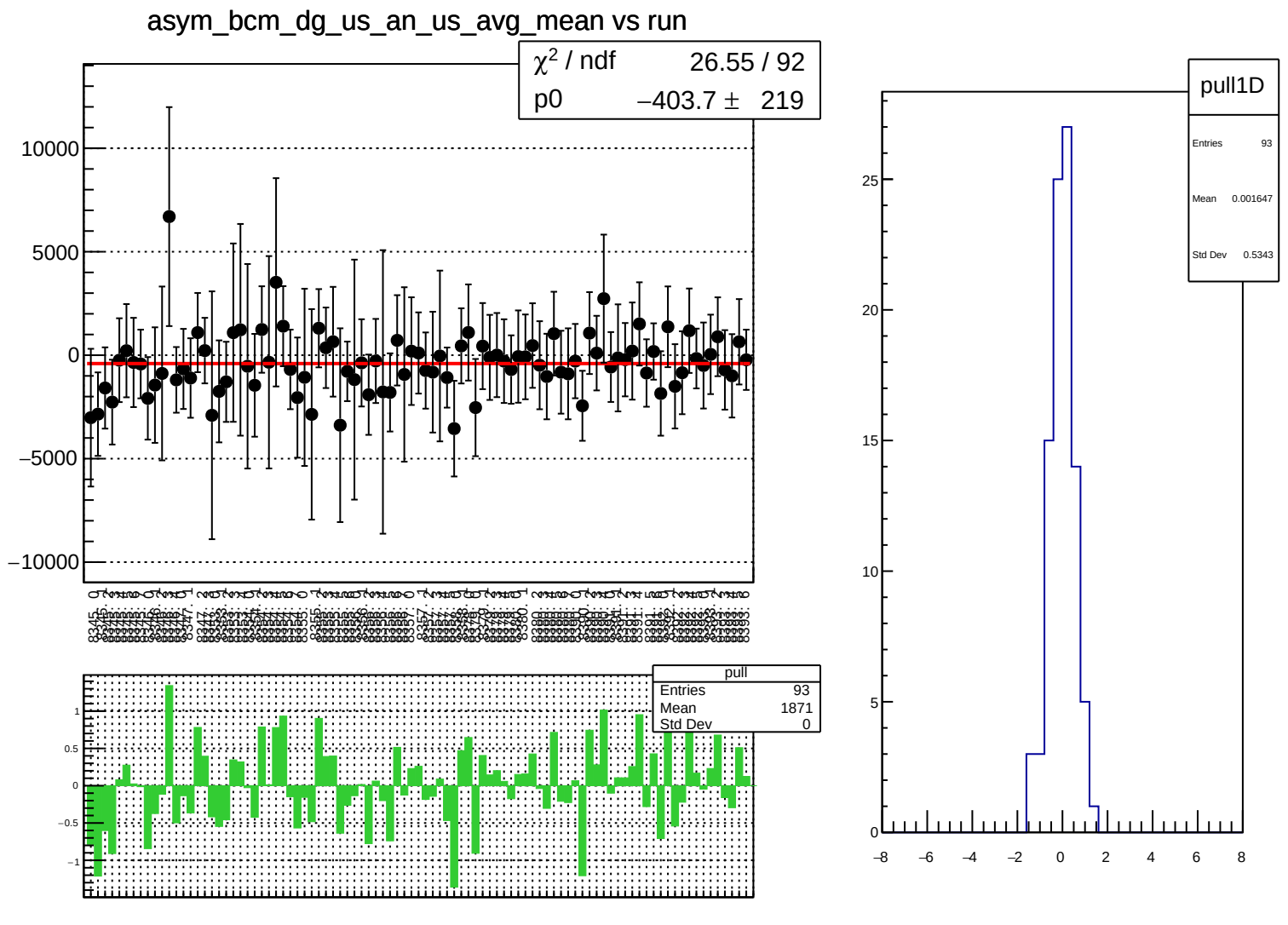

pull1D
Entries 93
Mean 0.003062
Std Dev 0.555
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

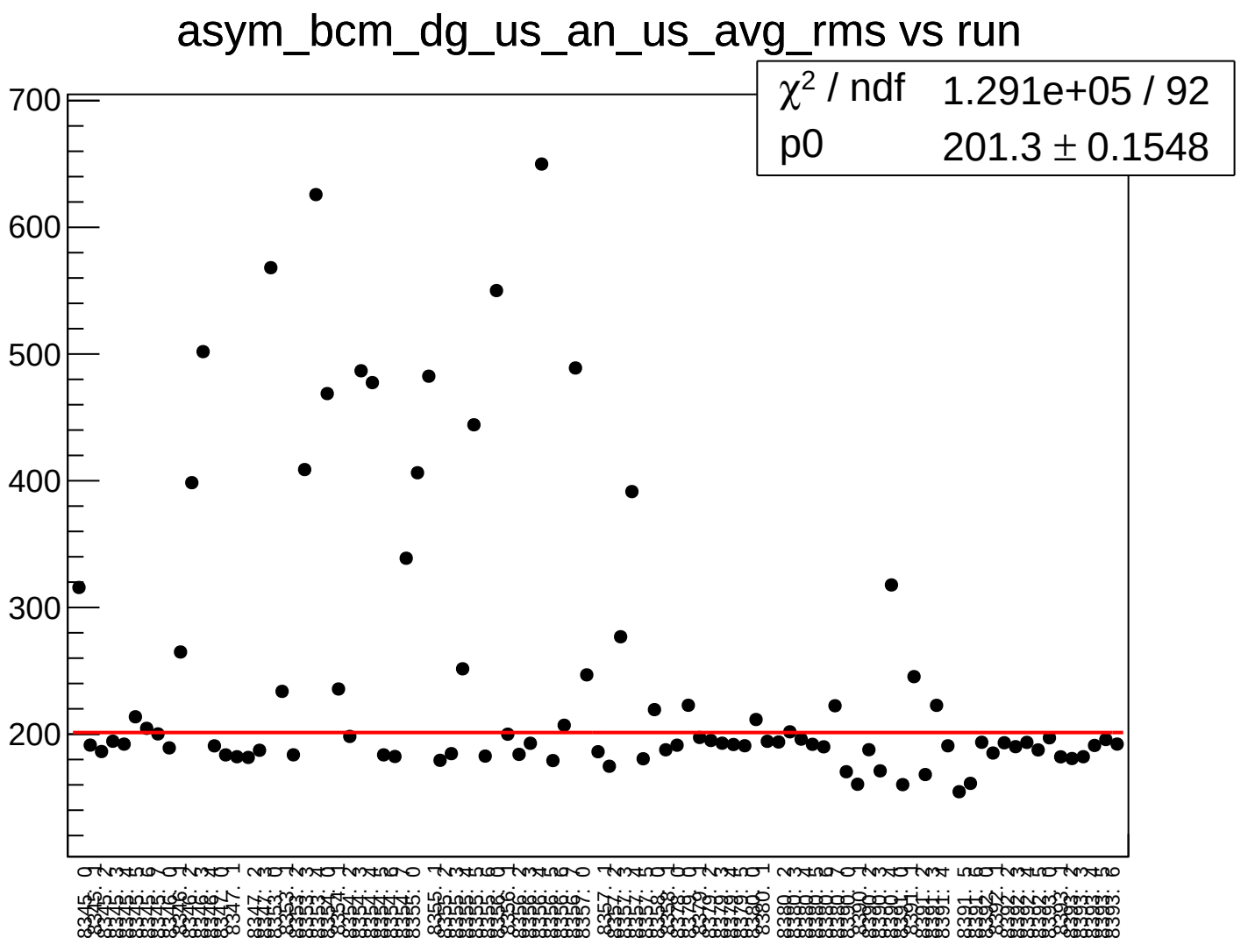

asym_bcm_cav4cQ_dg_ds_avg_rms vs run
χ² / ndf 1.29e+05 / 92
p0 202.4 ± 0.1557
700
600
500
400
300
200

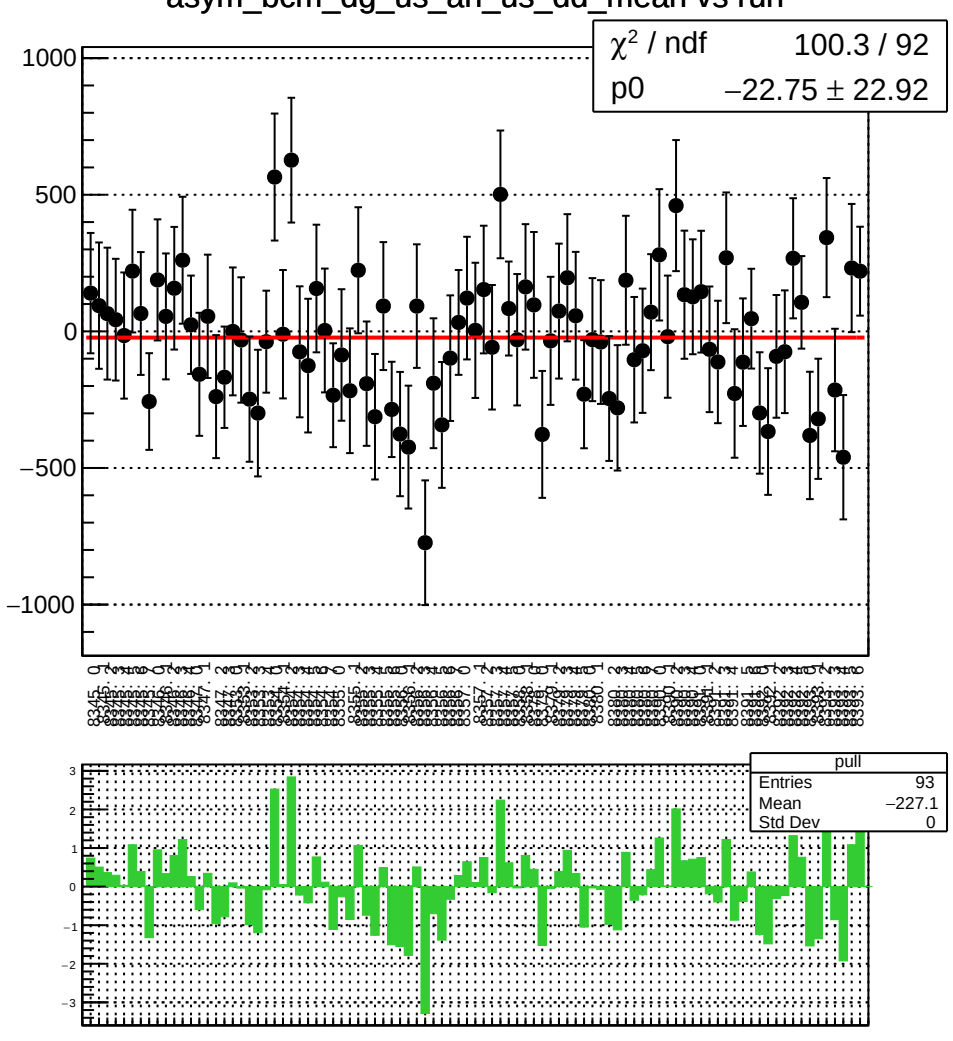

asym_bcm_cav4cQ_dg_ds_dd_mean vs run
χ² / ndf 107.1 / 92
p0 75.44 ± 29.7
1000
500
0
−500
−1000
pull
Entries 93
Mean 184.9
Std Dev 0
3
2
1
0
−1
−2
−3

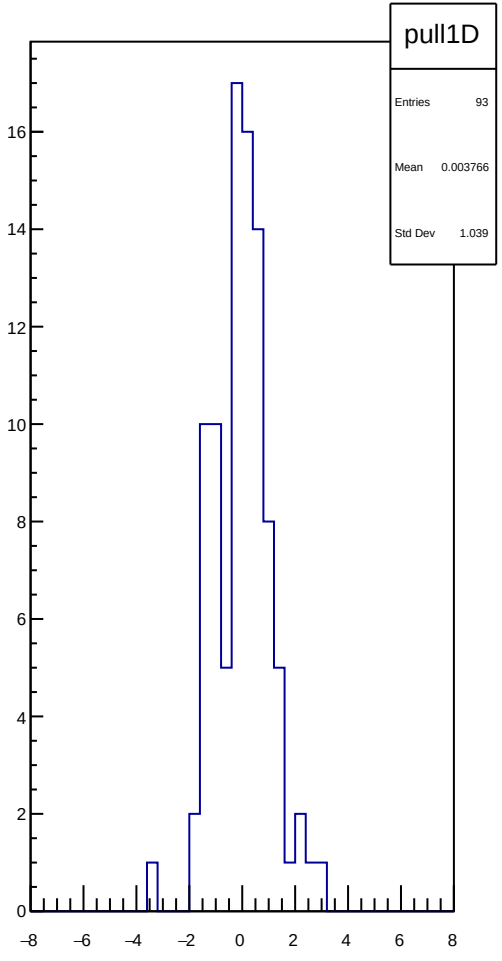

pull1D
Entries 93
Mean −0.01188
Std Dev 1.073
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

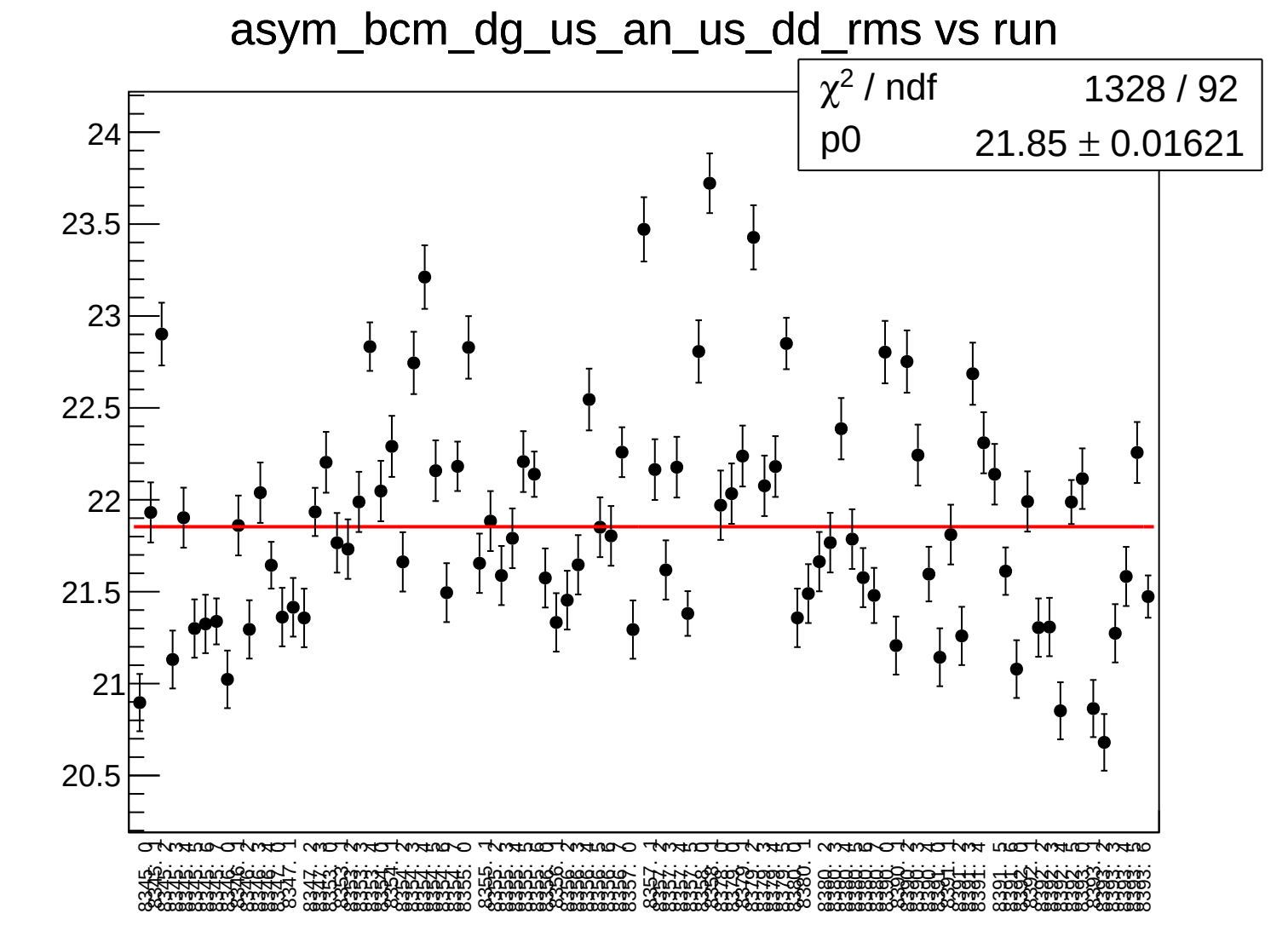

asym_bcm_cav4cQ_dg_ds_dd_rms vs run
χ² / ndf 2619 / 92
p0 28.3 ± 0.021
31
30
29
28
27
26
25

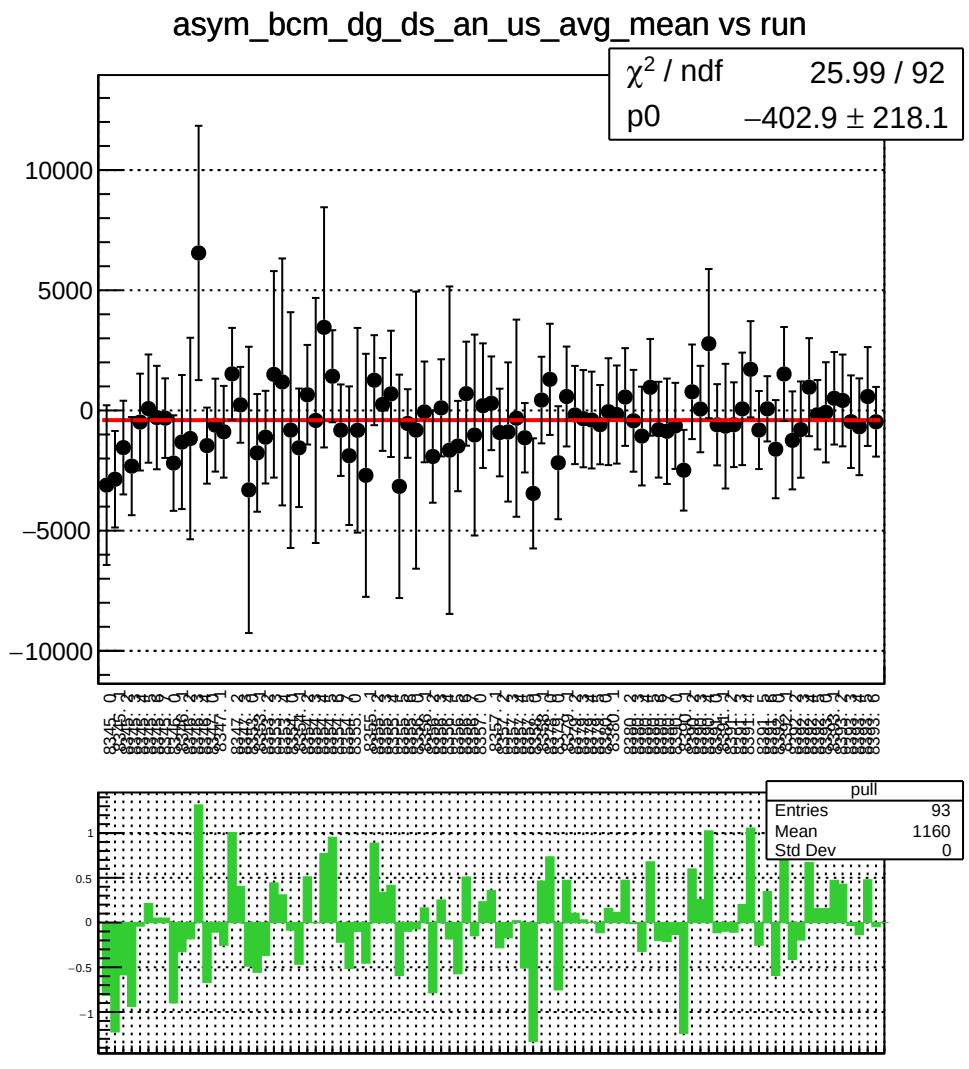

asym_bcm_dg_us_an_us_avg_mean vs run
χ² / ndf 26.55 / 92
p0 −403.7 ± 219
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 1871
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 93
Mean 0.001647
Std Dev 0.5343
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

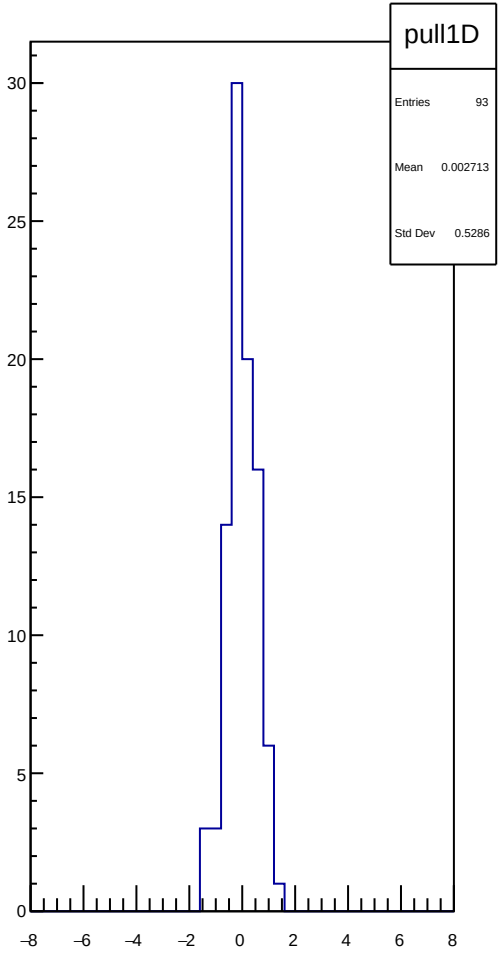

asym_bcm_dg_us_an_us_avg_rms vs run
χ² / ndf 1.291e+05 / 92
p0 201.3 ± 0.1548
700
600
500
400
300
200

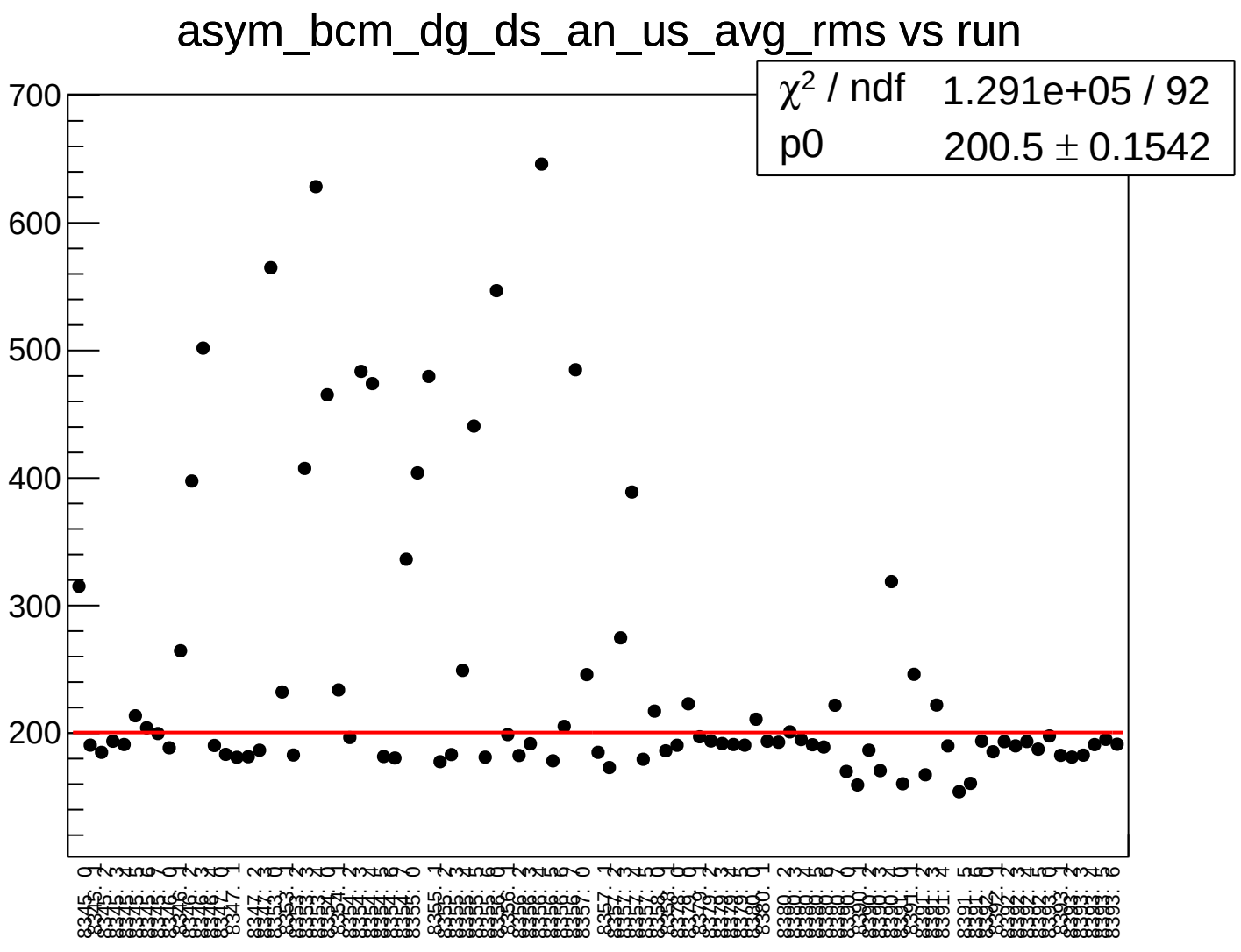

asym_bcm_dg_us_an_us_dd_mean vs run
χ² / ndf 100.3 / 92
p0 −22.75 ± 22.92
1000
500
0
−500
−1000
pull
Entries 93
Mean −227.1
Std Dev 0
3
2
1
0
−1
−2
−3

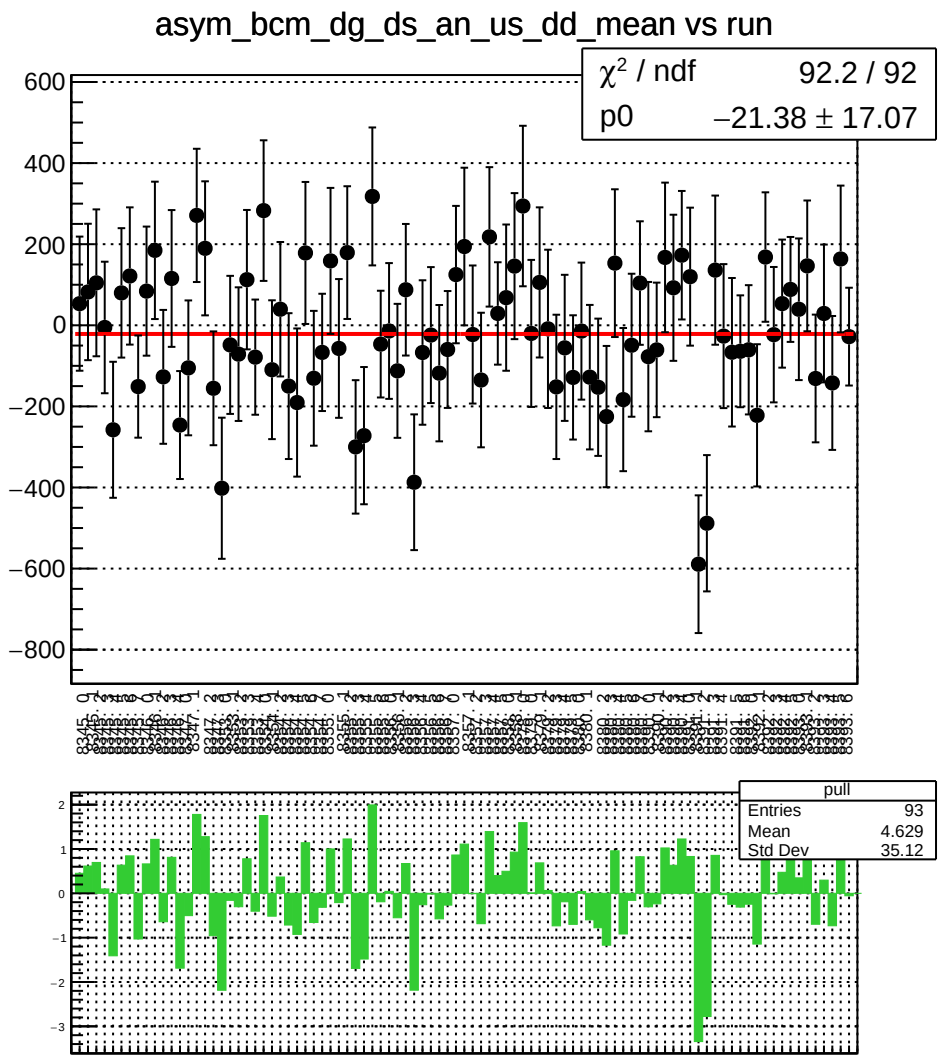

pull1D
Entries 93
Mean 0.003766
Std Dev 1.039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

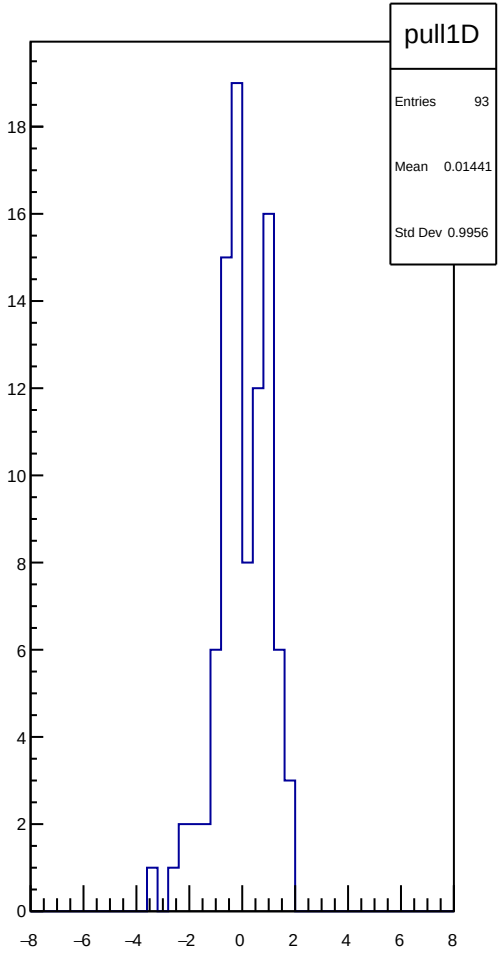

asym_bcm_dg_us_an_us_dd_rms vs run
χ^2 / ndf 1328 / 92
p0 21.85 ± 0.01621
24
23.5
23
22.5
22
21.5
21
20.5

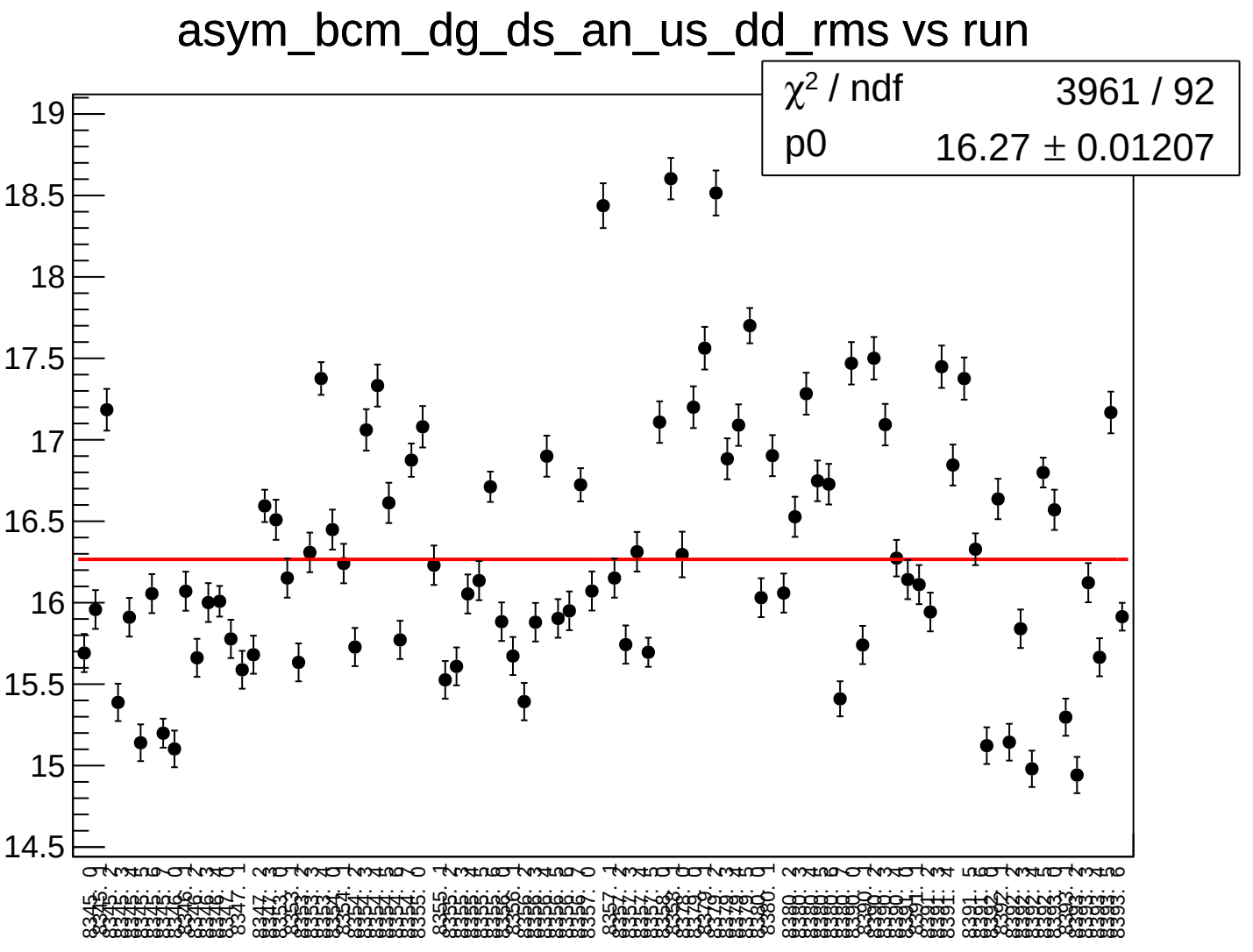

asym_bcm_dg_ds_an_us_avg_mean vs run
χ² / ndf 25.99 / 92
p0 −402.9 ± 218.1
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 1160
Std Dev 0
1
0.5
0
−0.5
−1

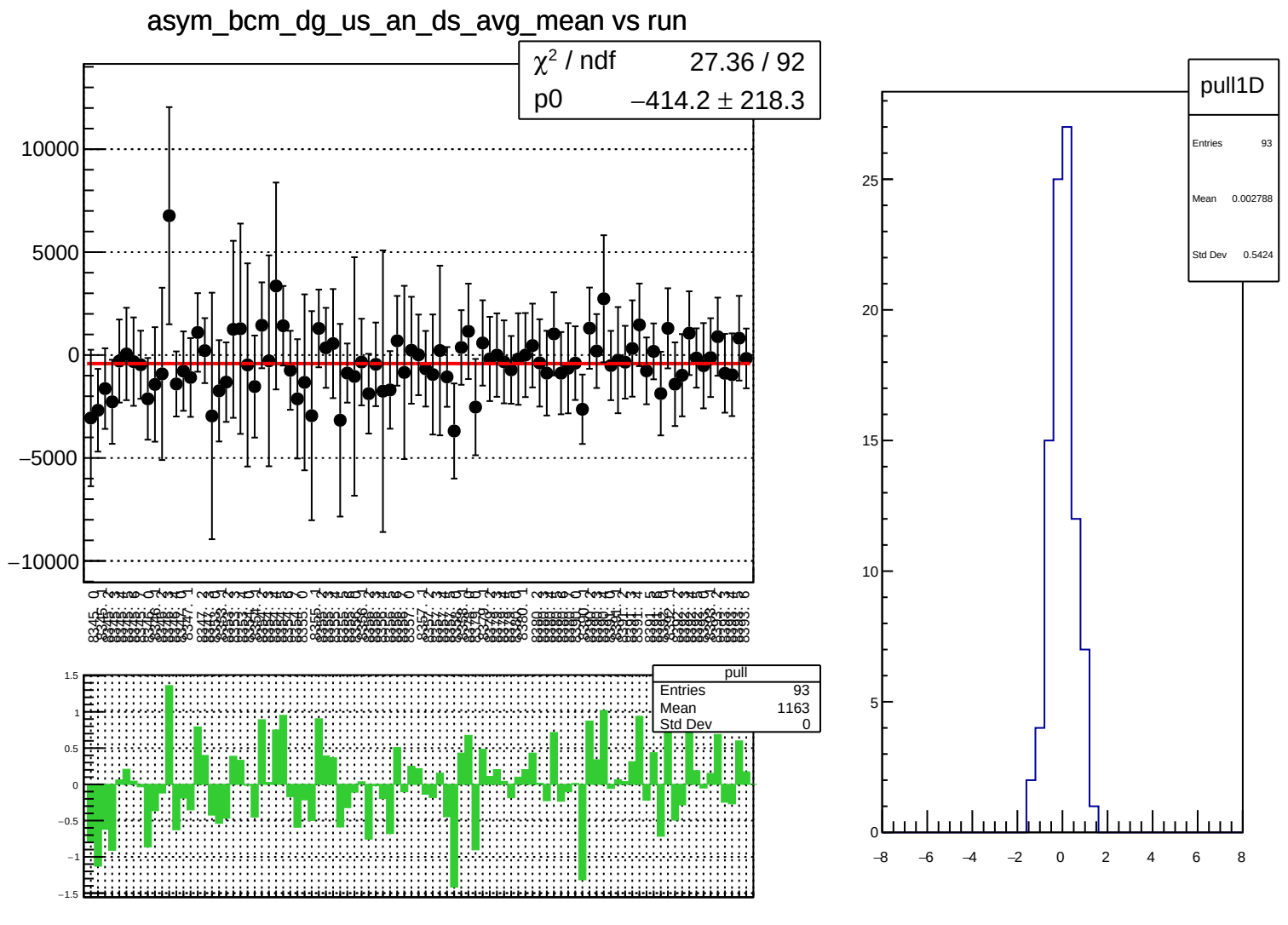

pull1D
Entries 93
Mean 0.002713
Std Dev 0.5286
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

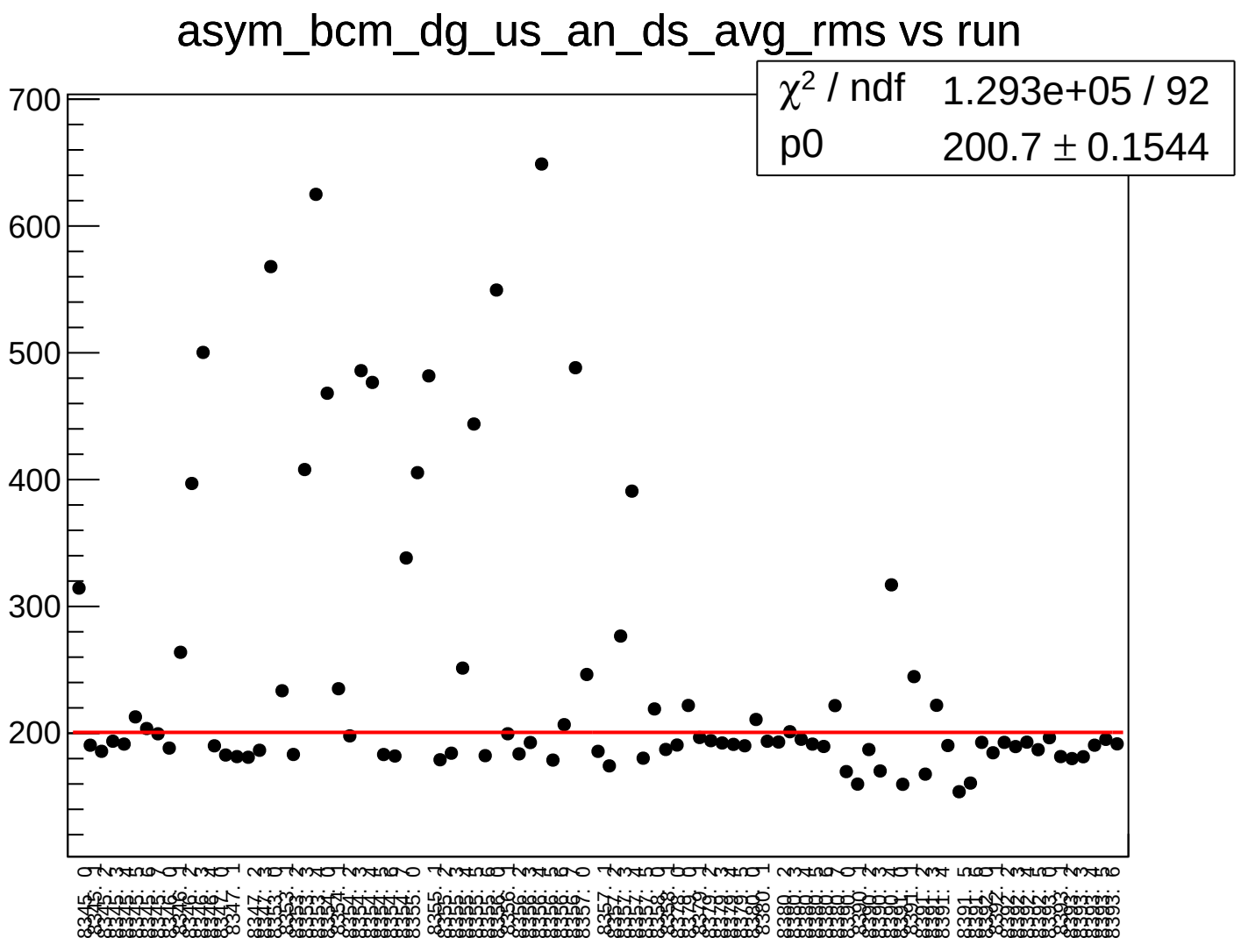

asym_bcm_dg_ds_an_us_avg_rms vs run
χ² / ndf 1.291e+05 / 92
p0 200.5 ± 0.1542
700
600
500
400
300
200

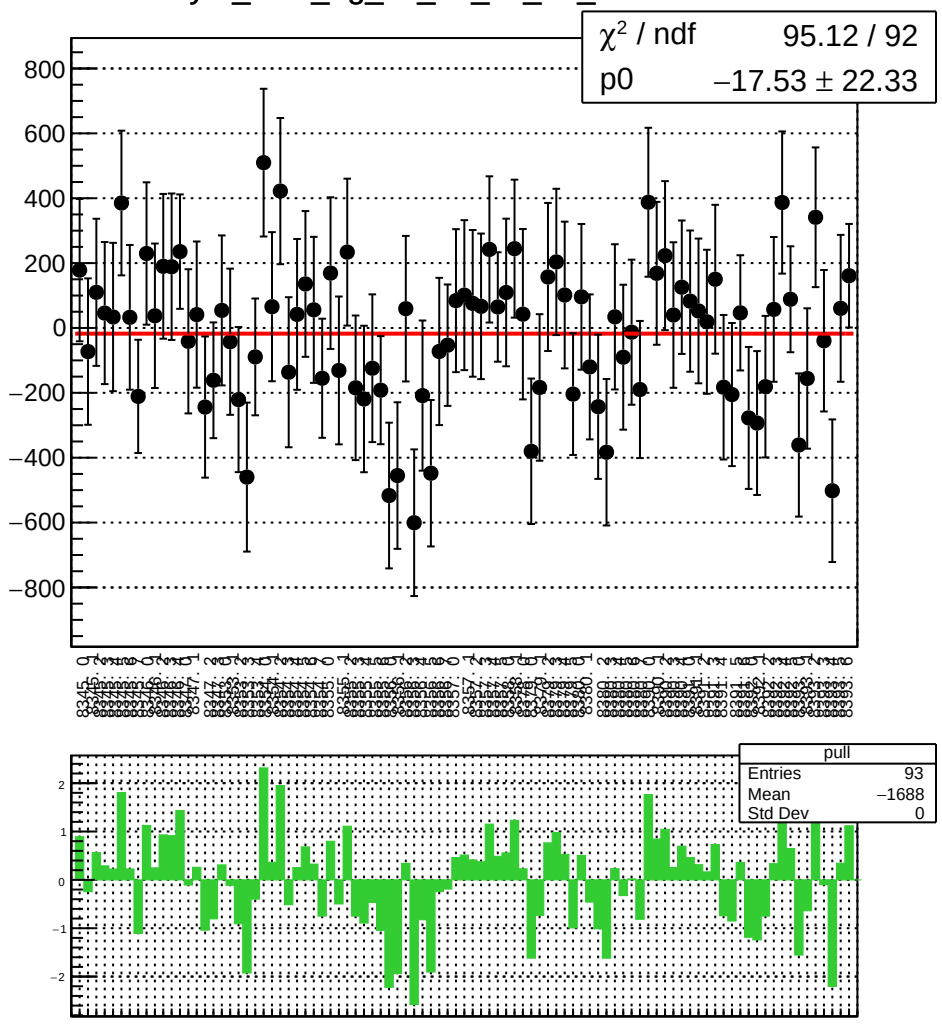

asym_bcm_dg_ds_an_us_dd_mean vs run
χ² / ndf 92.2 / 92
p0 −21.38 ± 17.07
pull
Entries 93
Mean 4.629
Std Dev 35.12

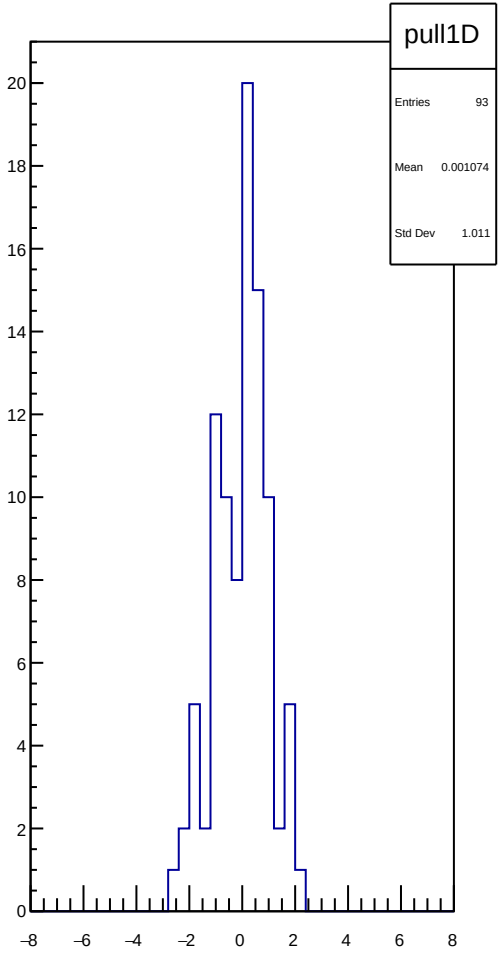

pull1D
Entries 93
Mean 0.01441
Std Dev 0.9956

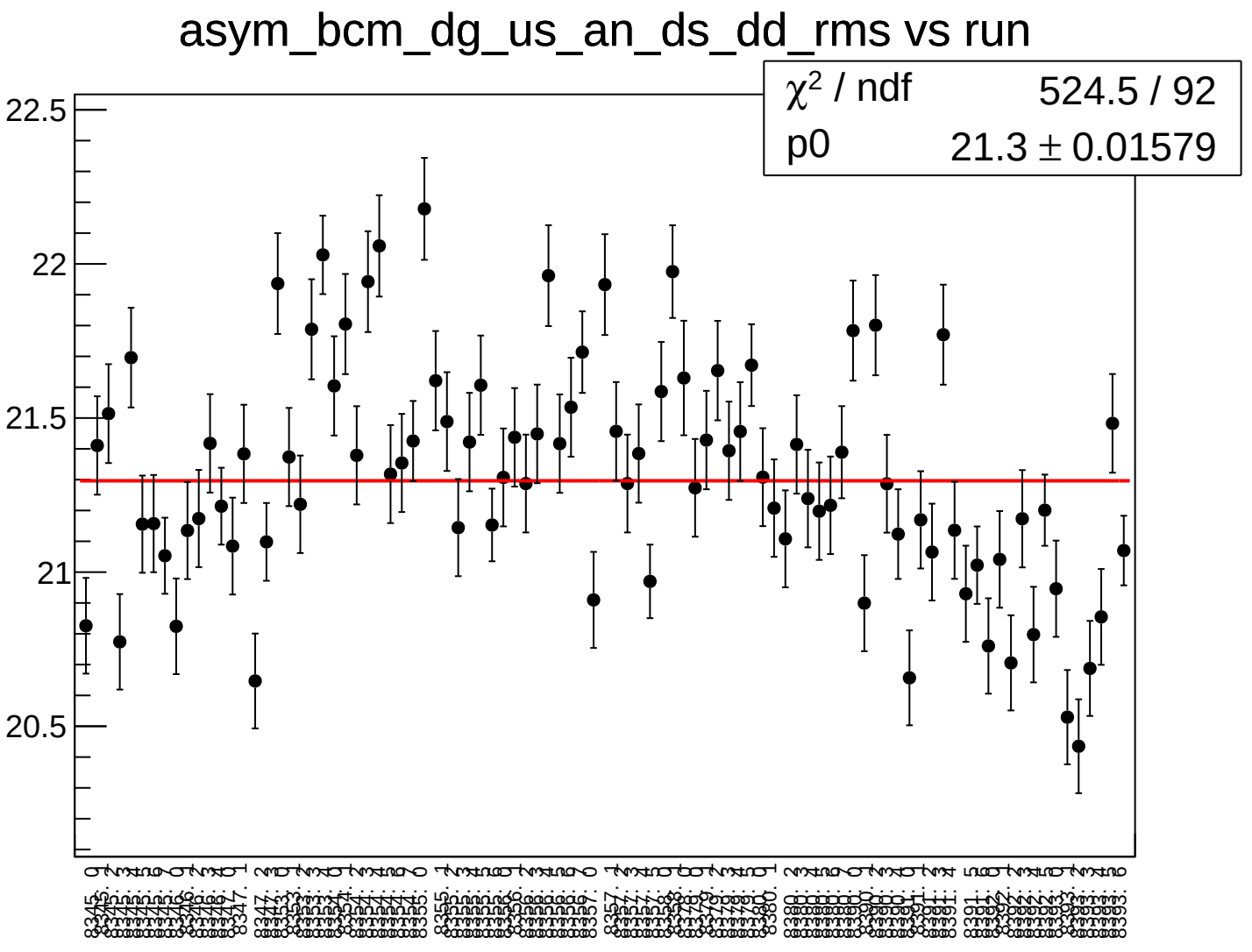

asym_bcm_dg_ds_an_us_dd_rms vs run
χ² / ndf 3961 / 92
p0 16.27 ± 0.01207
19
18.5
18
17.5
17
16.5
16
15.5
15
14.5

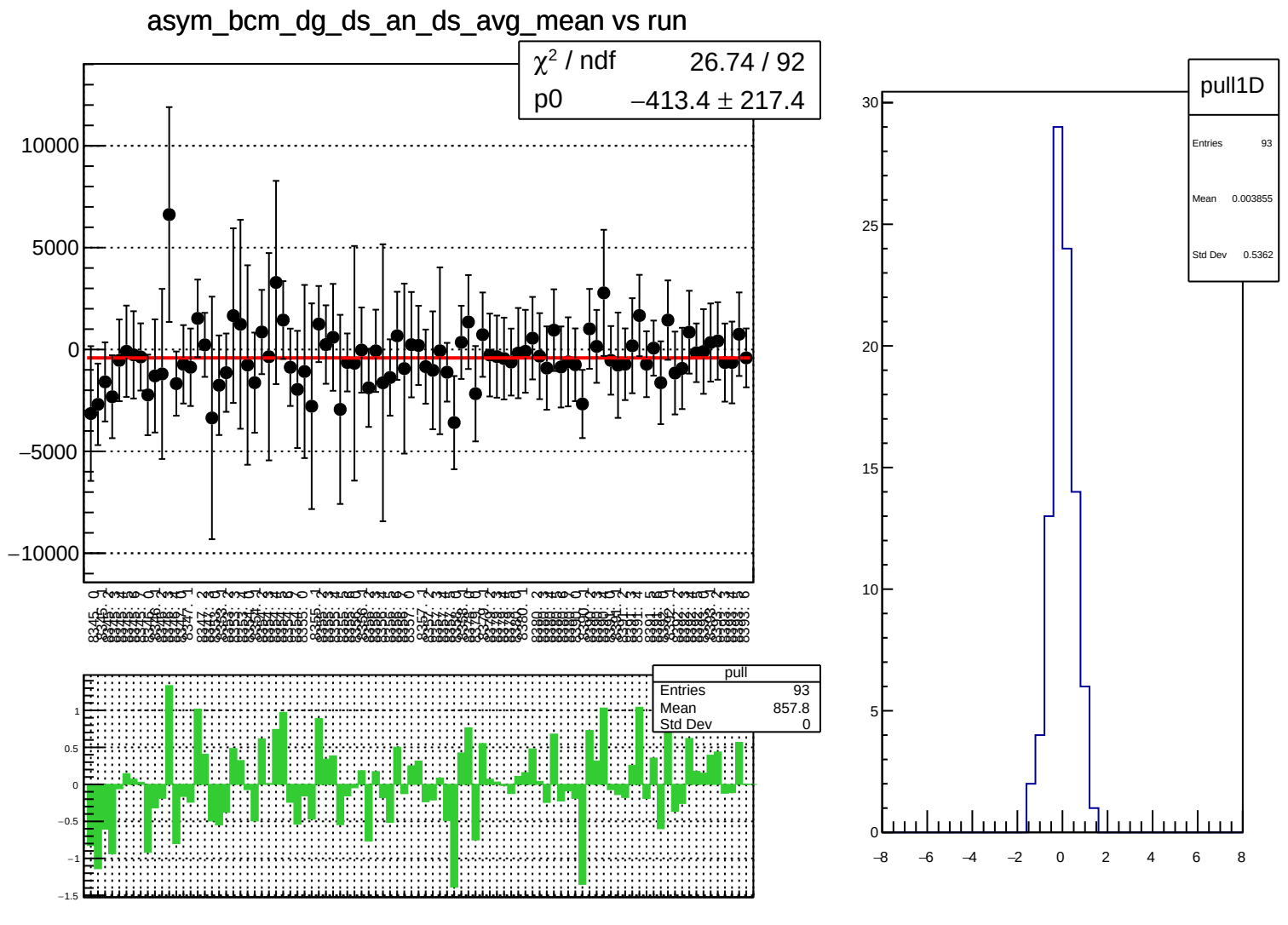

asym_bcm_dg_us_an_ds_avg_mean vs run
χ² / ndf 27.36 / 92
p0 −414.2 ± 218.3
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 1163
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean 0.002788
Std Dev 0.5424
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

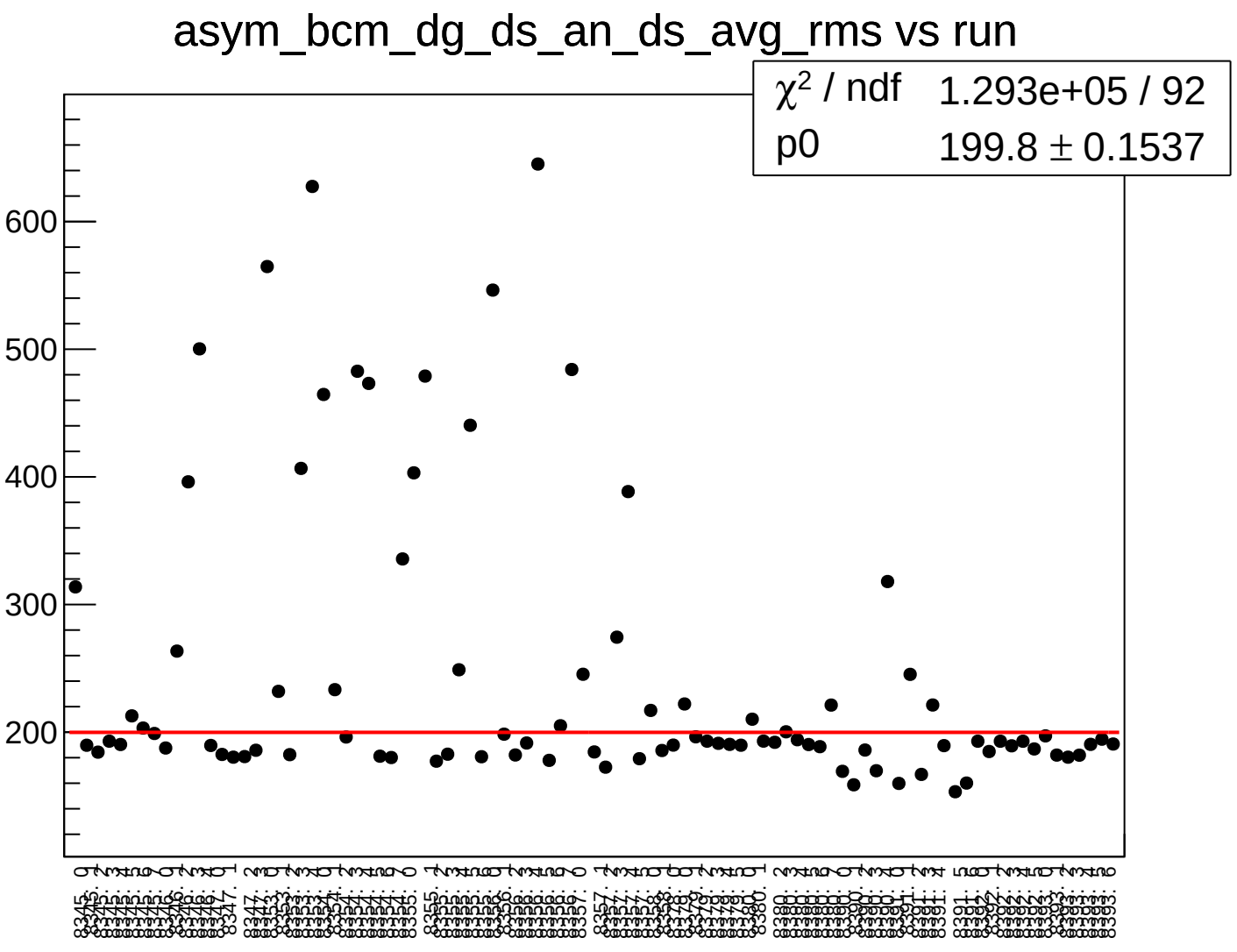

asym_bcm_dg_us_an_ds_avg_rms vs run
χ² / ndf 1.293e+05 / 92
p0 200.7 ± 0.1544
700
600
500
400
300
200

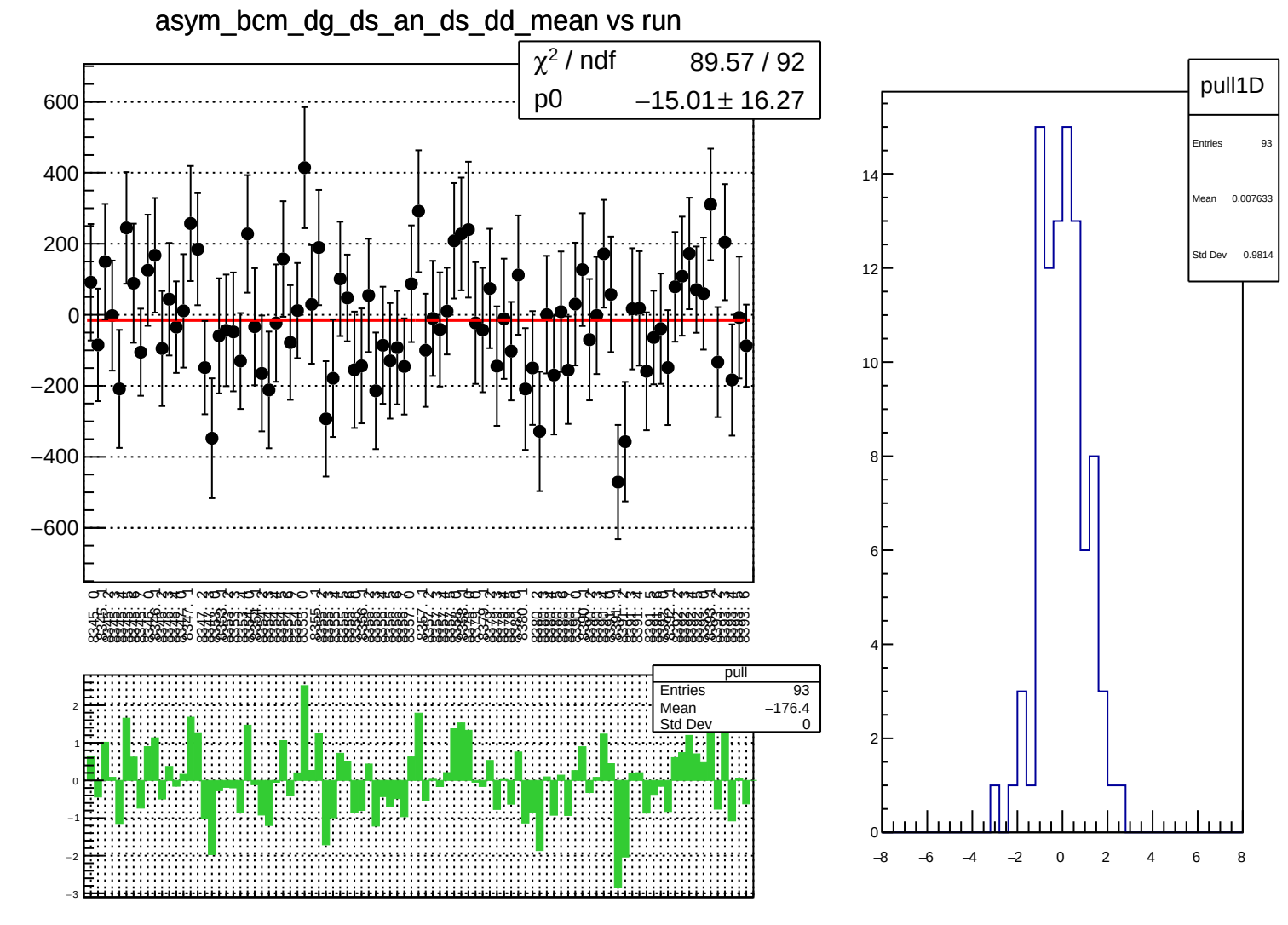

asym_bcm_dg_us_an_ds_dd_mean vs run
χ² / ndf 95.12 / 92
p0 −17.53 ± 22.33
pull
Entries 93
Mean −1688
Std Dev 0

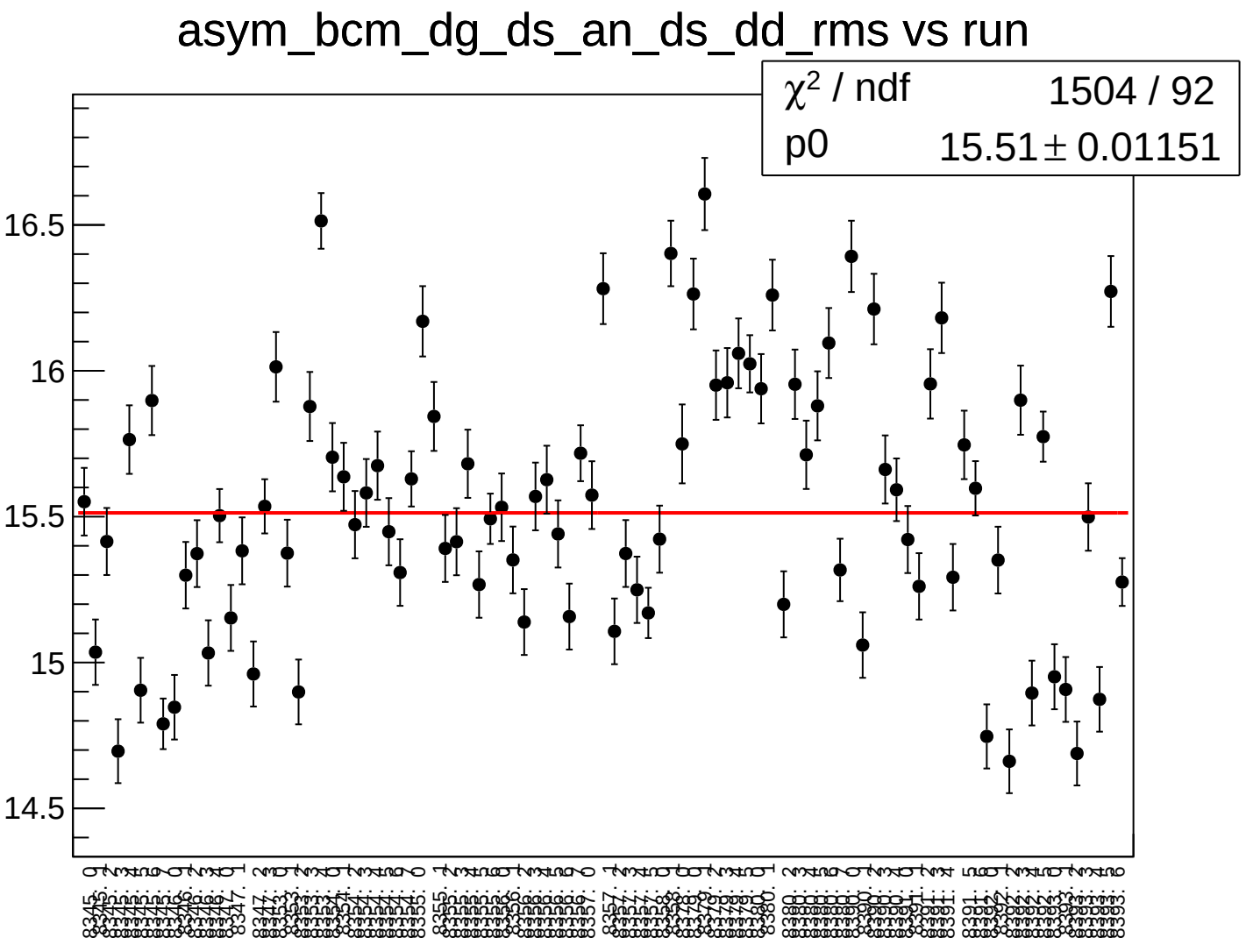

pull1D
Entries 93
Mean 0.001074
Std Dev 1.011

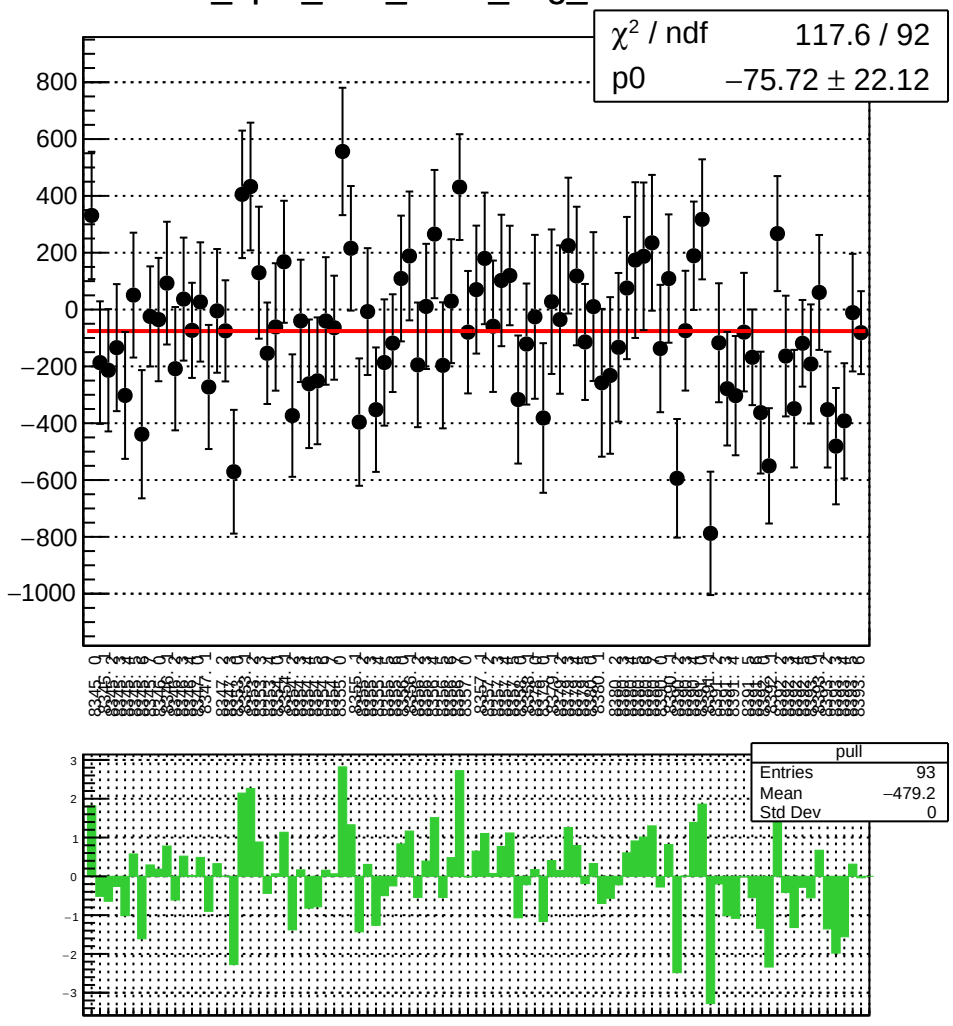

asym_bcm_dg_us_an_ds_dd_rms vs run
χ² / ndf 524.5 / 92
p0 21.3 ± 0.01579
22.5
22
21.5
21
20.5

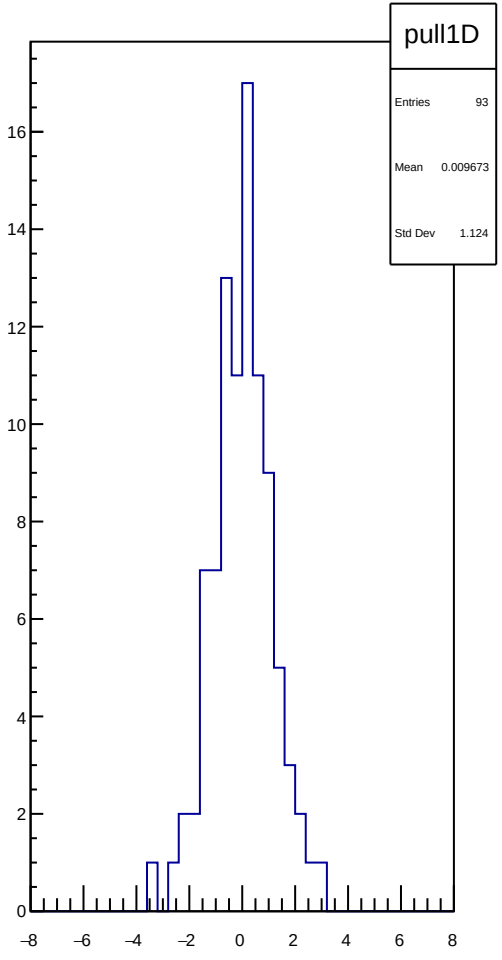

asym_bcm_dg_ds_an_ds_avg_mean vs run
χ² / ndf 26.74 / 92
p0 −413.4 ± 217.4
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 857.8
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean 0.003855
Std Dev 0.5362
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

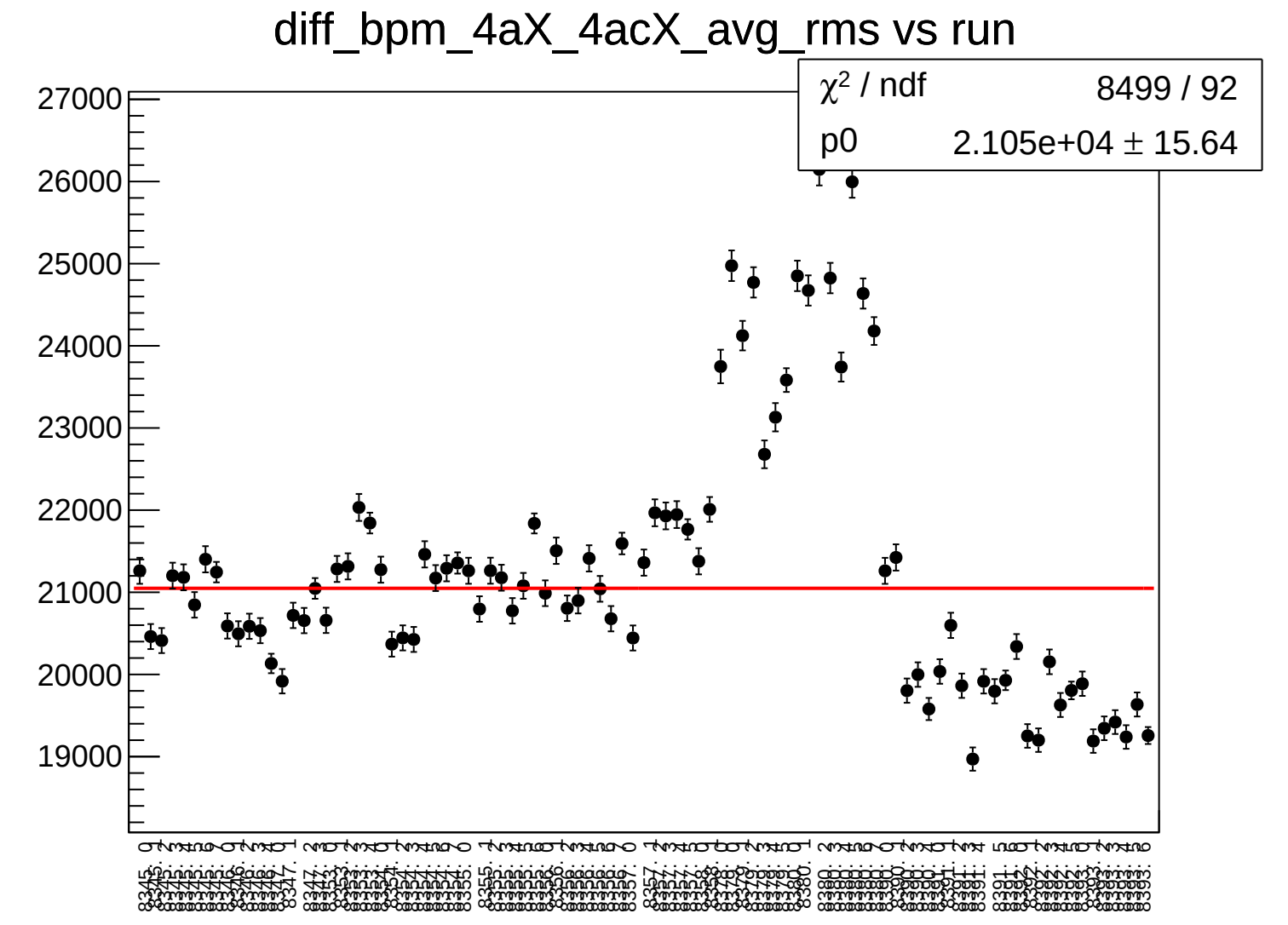

asym_bcm_dg_ds_an_ds_avg_rms vs run
χ² / ndf 1.293e+05 / 92
p0 199.8 ± 0.1537
600
500
400
300
200

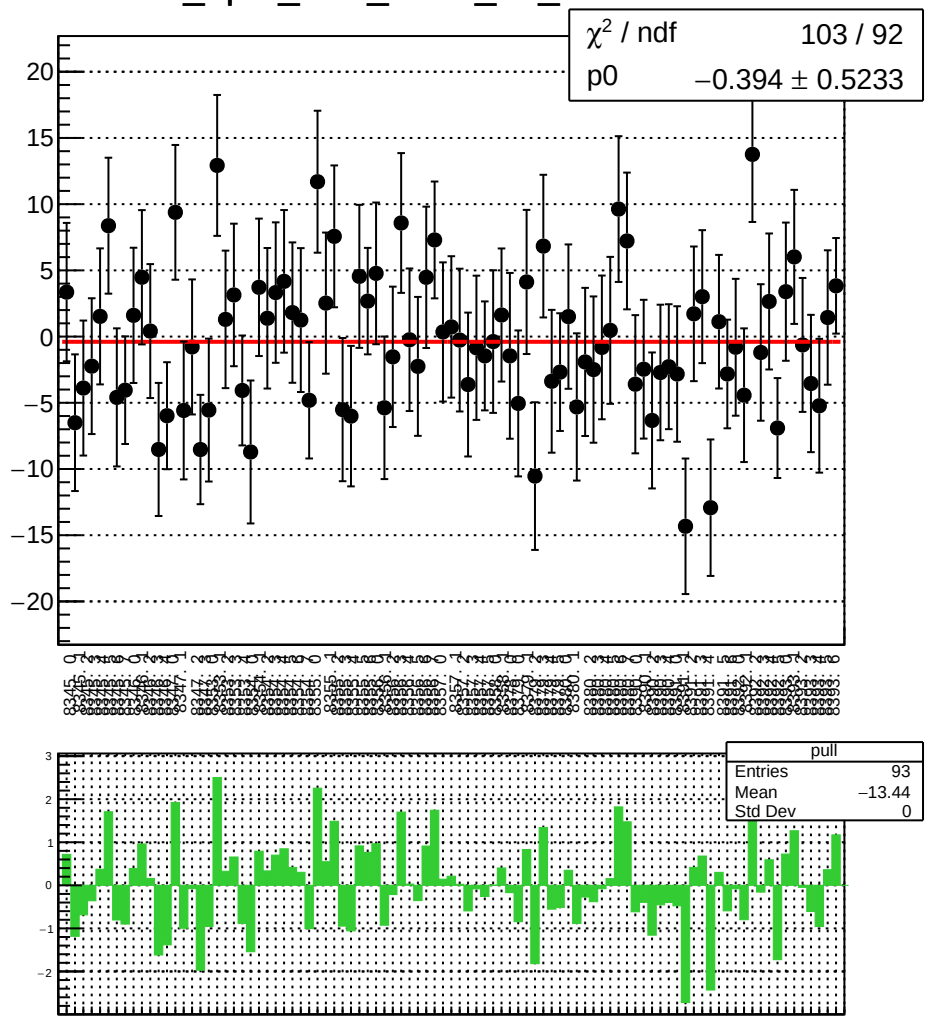

asym_bcm_dg_ds_an_ds_dd_mean vs run
χ² / ndf 89.57 / 92
p0 −15.01 ± 16.27
pull
Entries 93
Mean −176.4
Std Dev 0
pull1D
Entries 93
Mean 0.007633
Std Dev 0.9814

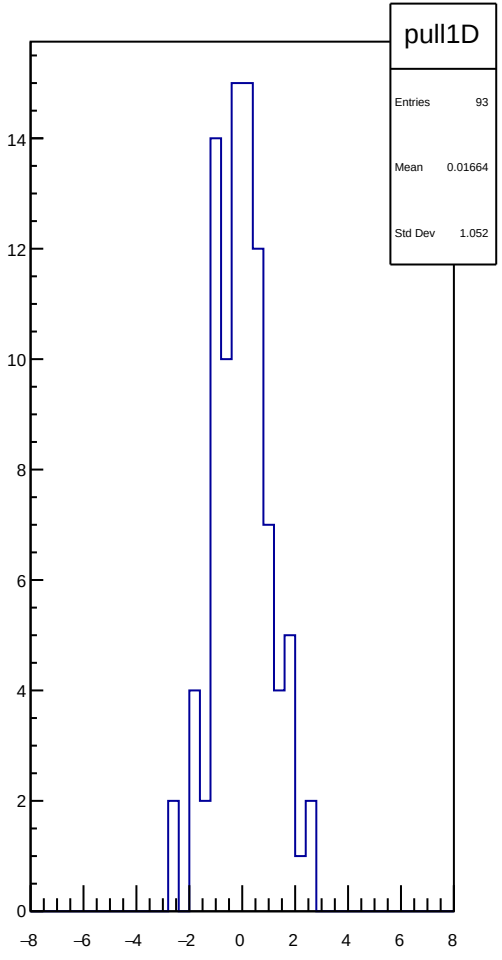

asym_bcm_dg_ds_an_ds_dd_rms vs run
χ² / ndf 1504 / 92
p0 15.51 ± 0.01151
16.5
16
15.5
15
14.5

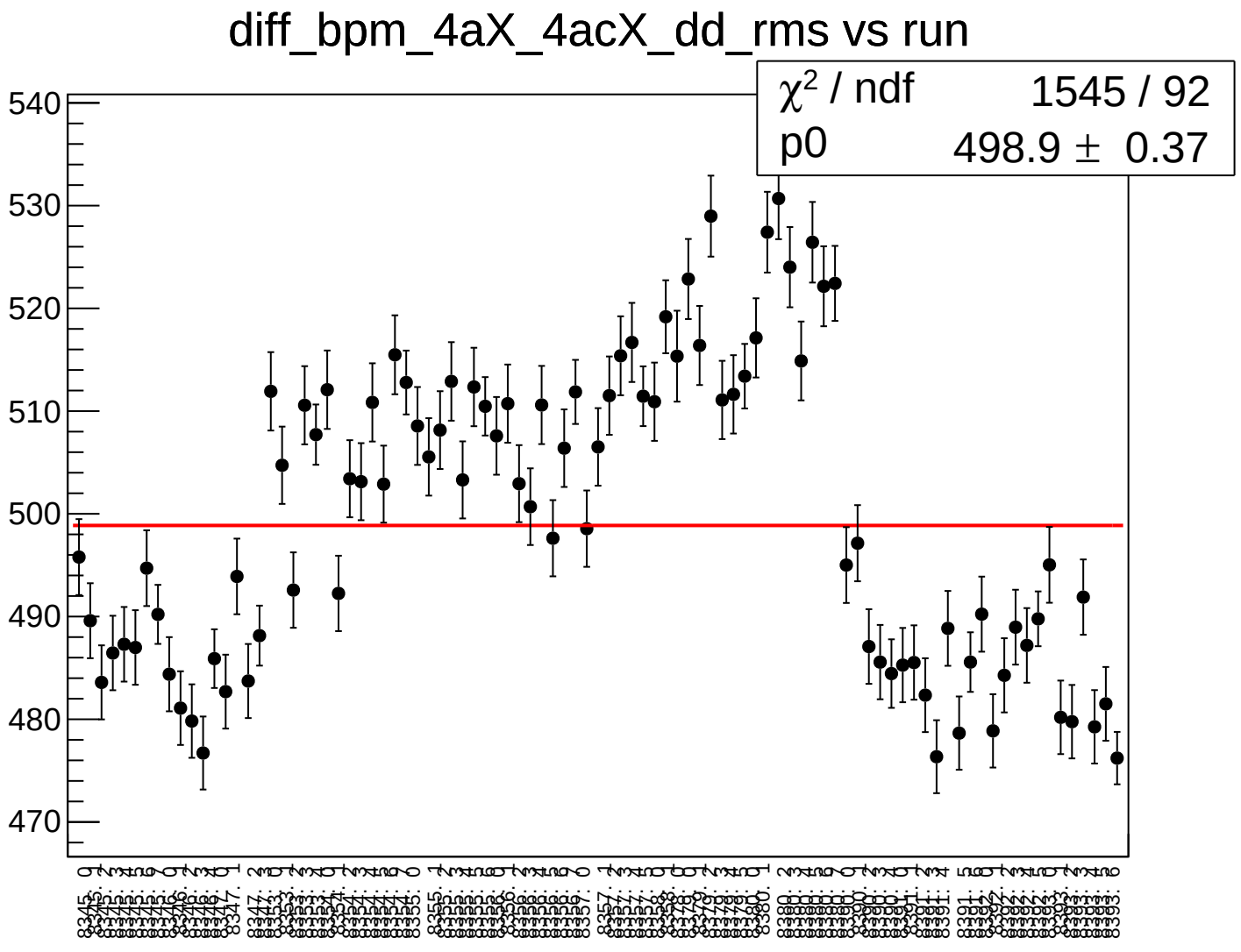

diff_bpm_4aX_4acX_avg_mean vs run
χ² / ndf 117.6 / 92
p0 −75.72 ± 22.12
pull
Entries 93
Mean −479.2
Std Dev 0

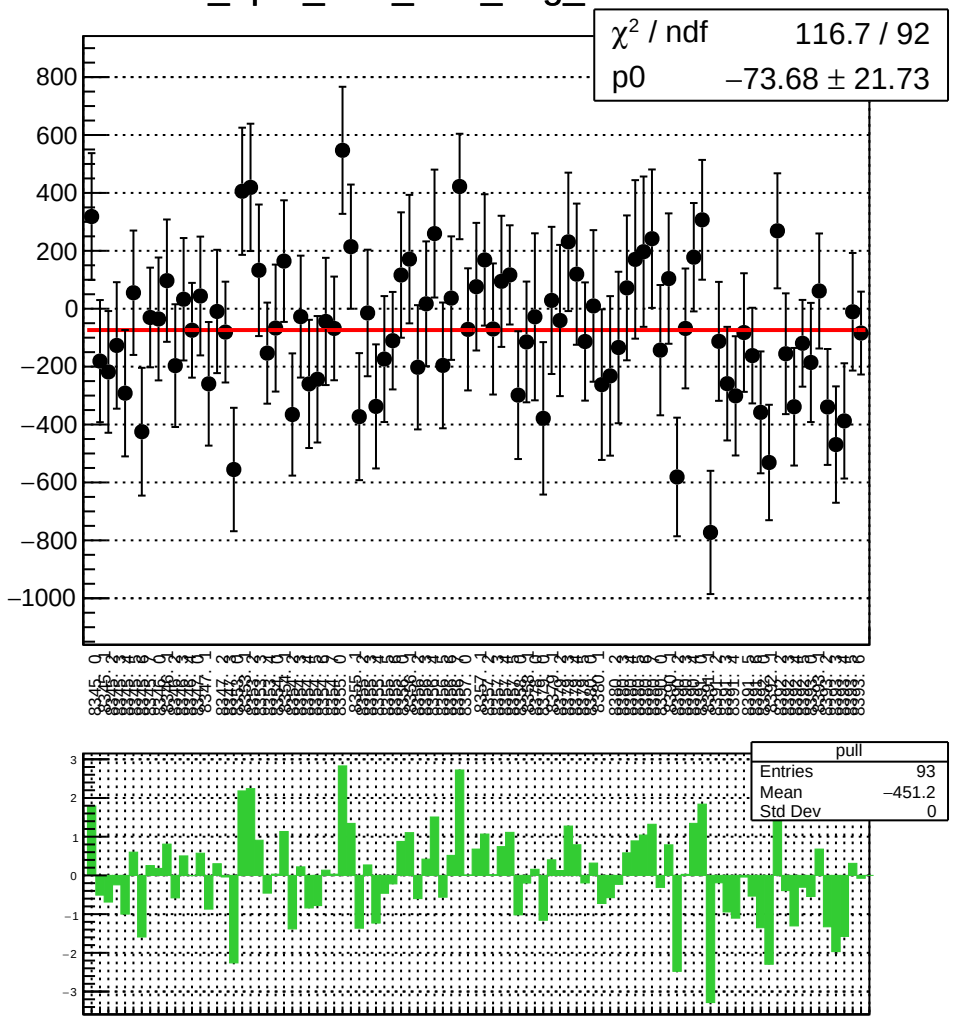

pull1D
Entries 93
Mean 0.009673
Std Dev 1.124

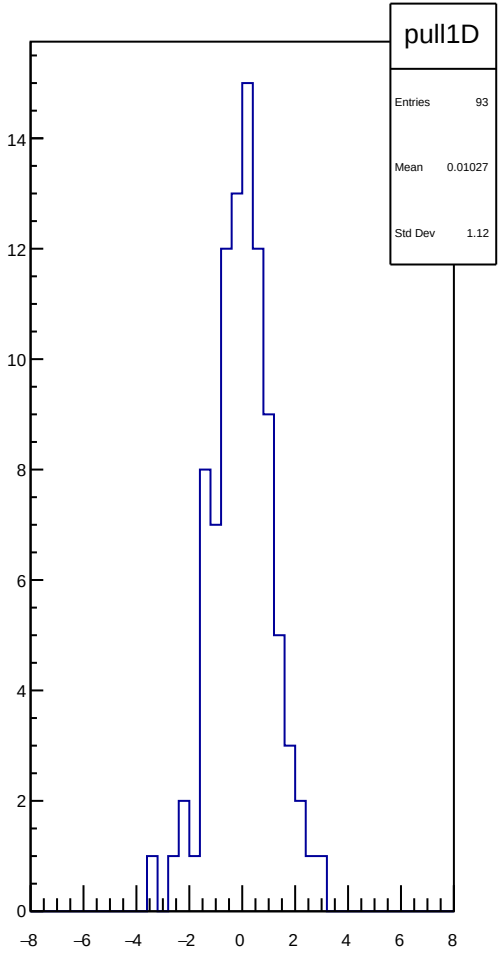

diff_bpm_4aX_4acX_avg_rms vs run
χ² / ndf 8499 / 92
p0 2.105e+04 ± 15.64
27000
26000
25000
24000
23000
22000
21000
20000
19000

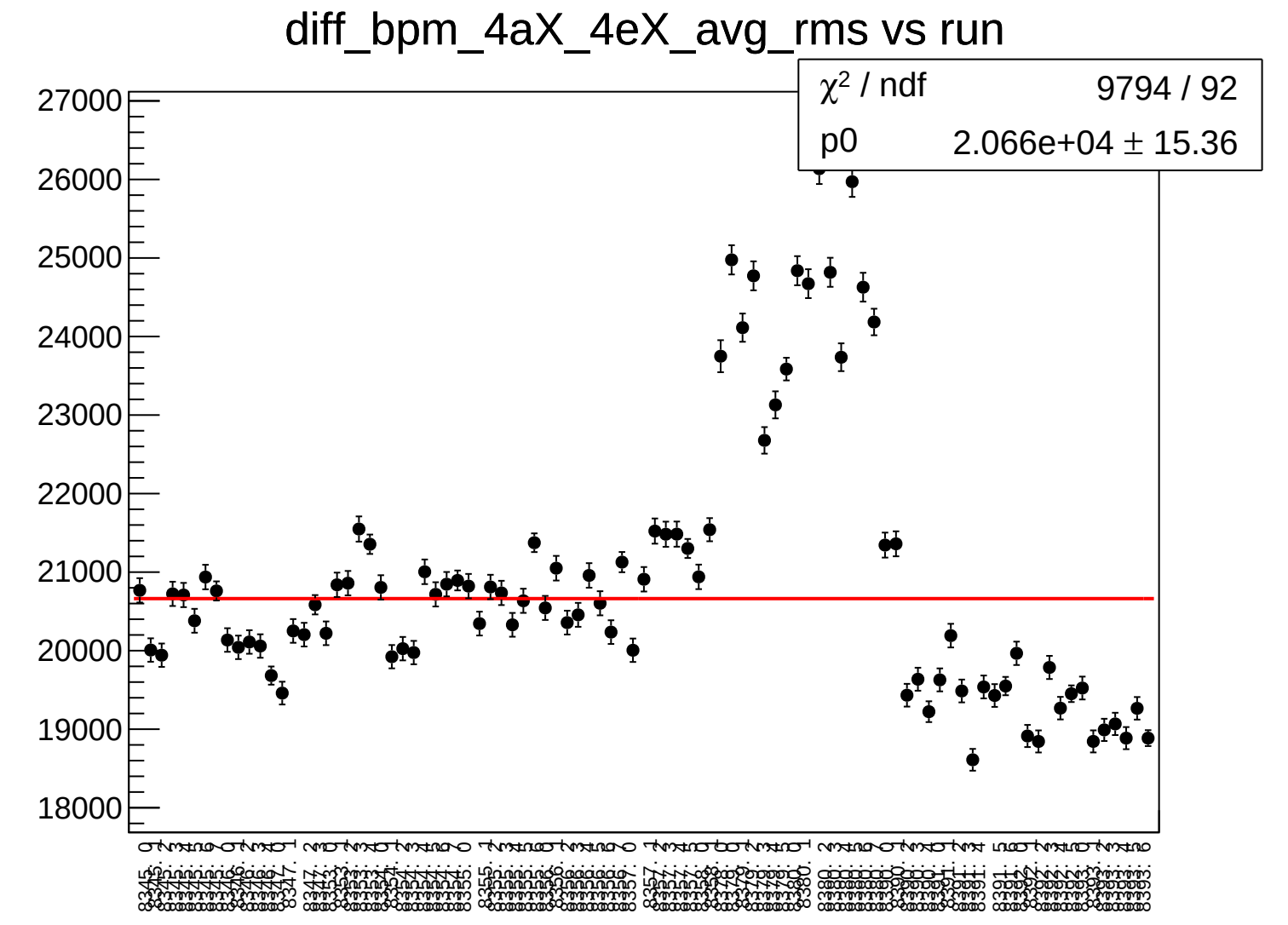

diff_bpm_4aX_4acX_dd_mean vs run
χ² / ndf 103 / 92
p0 −0.394 ± 0.5233
pull
Entries 93
Mean −13.44
Std Dev 0

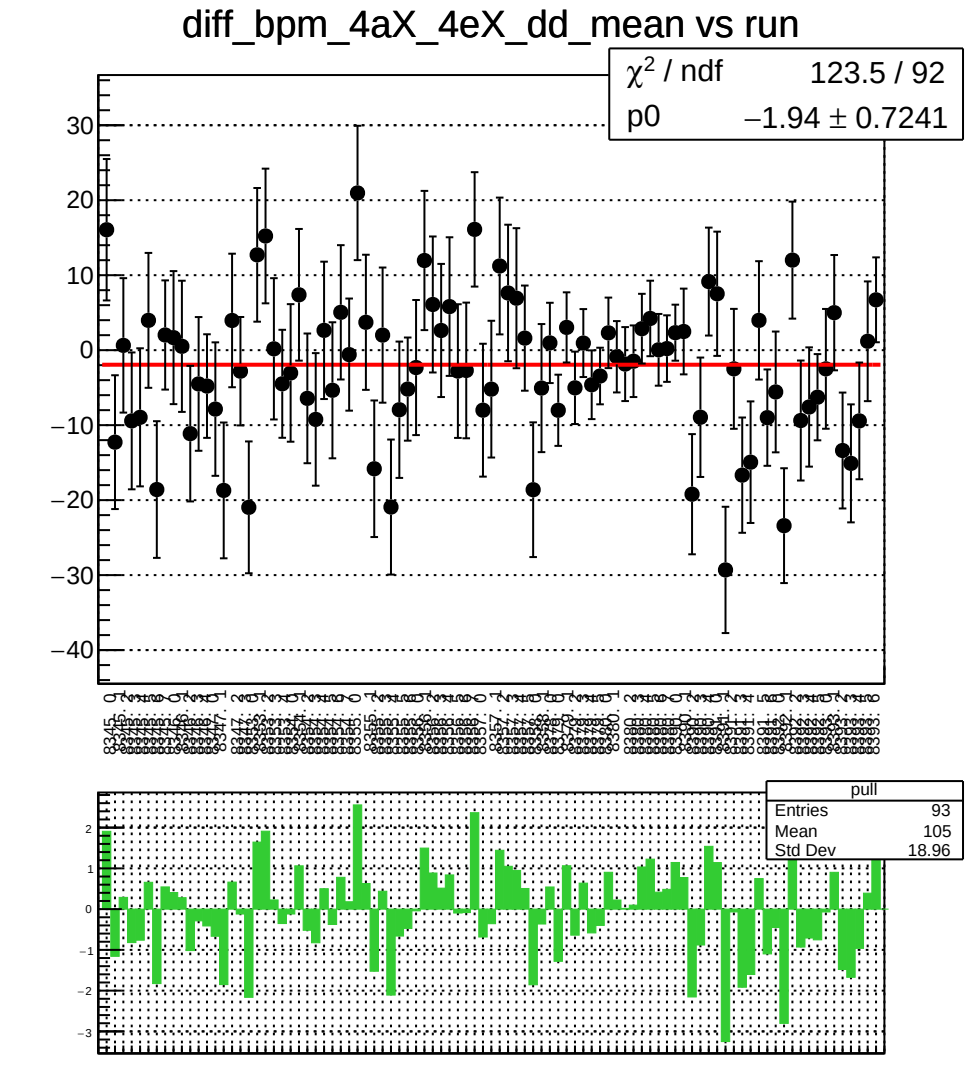

pull1D
Entries 93
Mean 0.01664
Std Dev 1.052

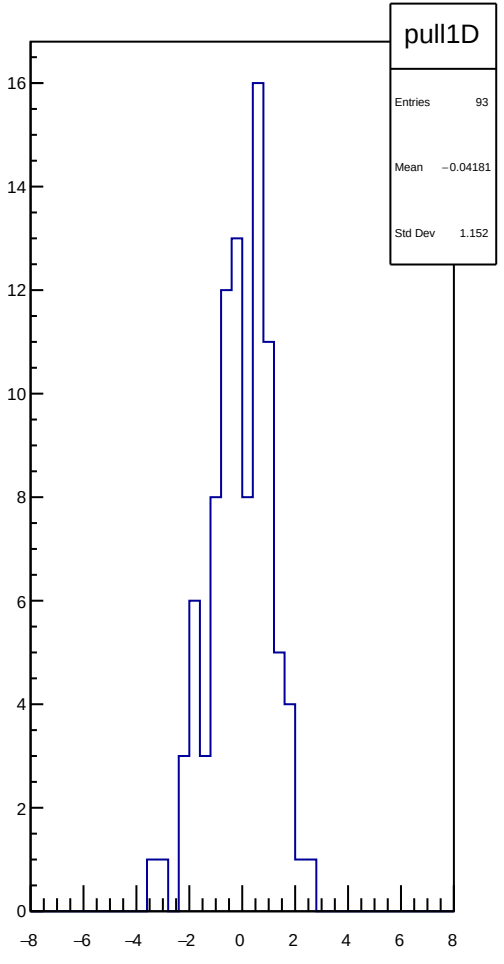

diff_bpm_4aX_4acX_dd_rms vs run
χ² / ndf 1545 / 92
p0 498.9 ± 0.37
540
530
520
510
500
490
480
470

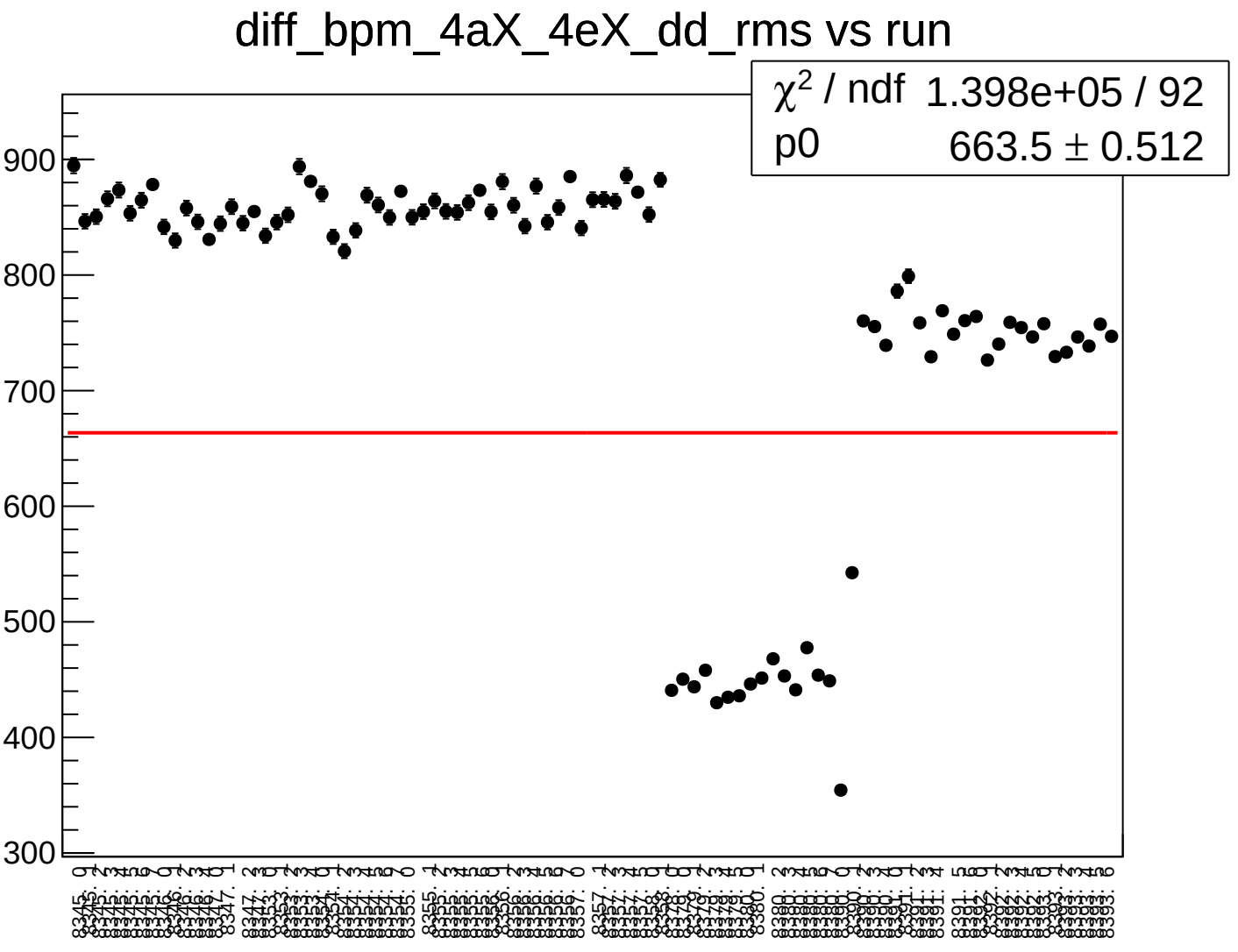

diff_bpm_4aX_4eX_avg_mean vs run
χ² / ndf 116.7 / 92
p0 −73.68 ± 21.73
pull
Entries 93
Mean −451.2
Std Dev 0

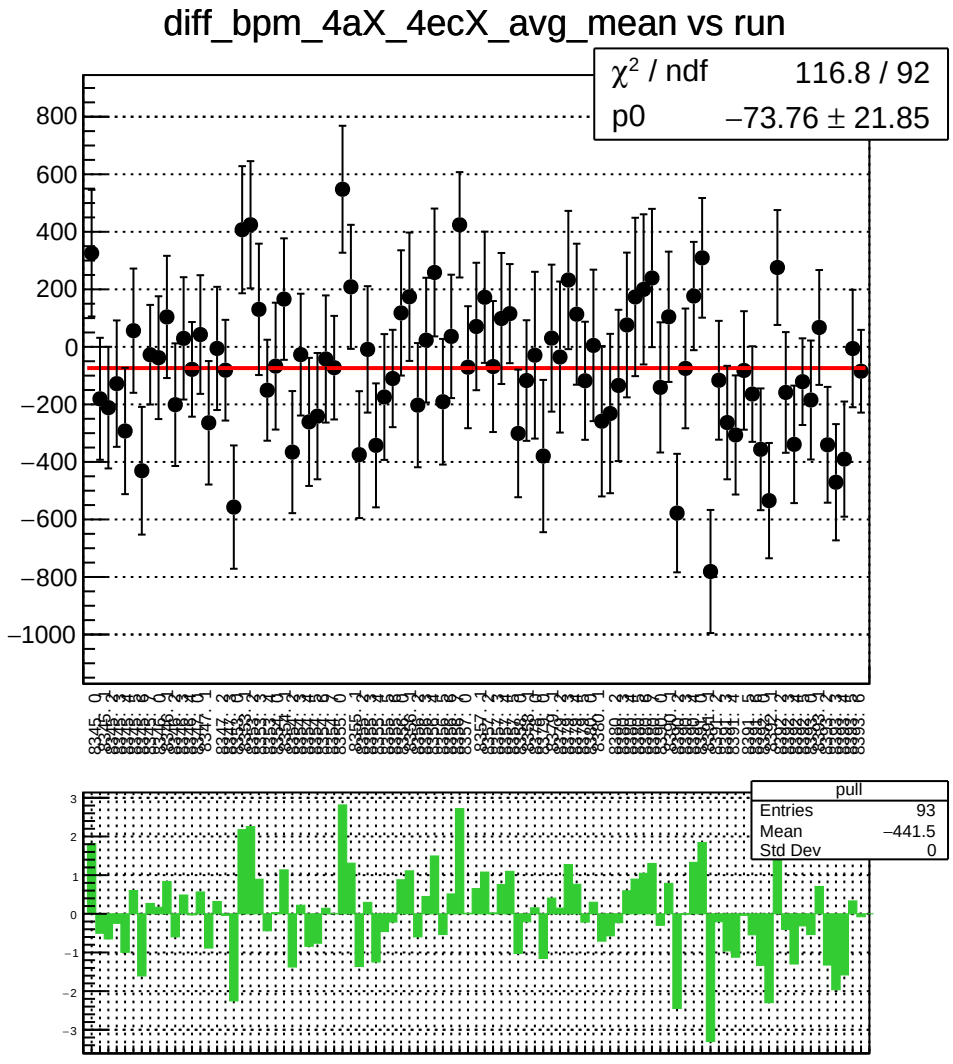

pull1D
Entries 93
Mean 0.01027
Std Dev 1.12

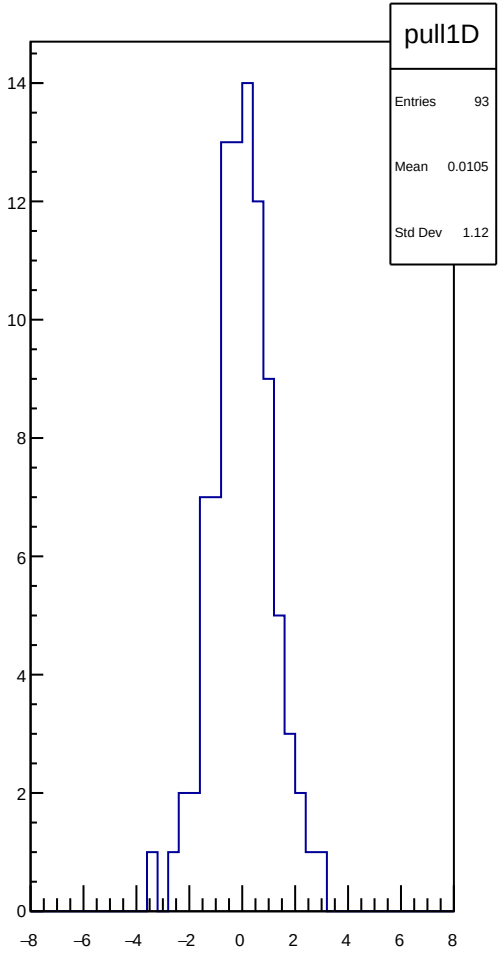

diff_bpm_4aX_4eX_avg_rms vs run
χ² / ndf 9794 / 92
p0 2.066e+04 ± 15.36
27000
26000
25000
24000
23000
22000
21000
20000
19000
18000

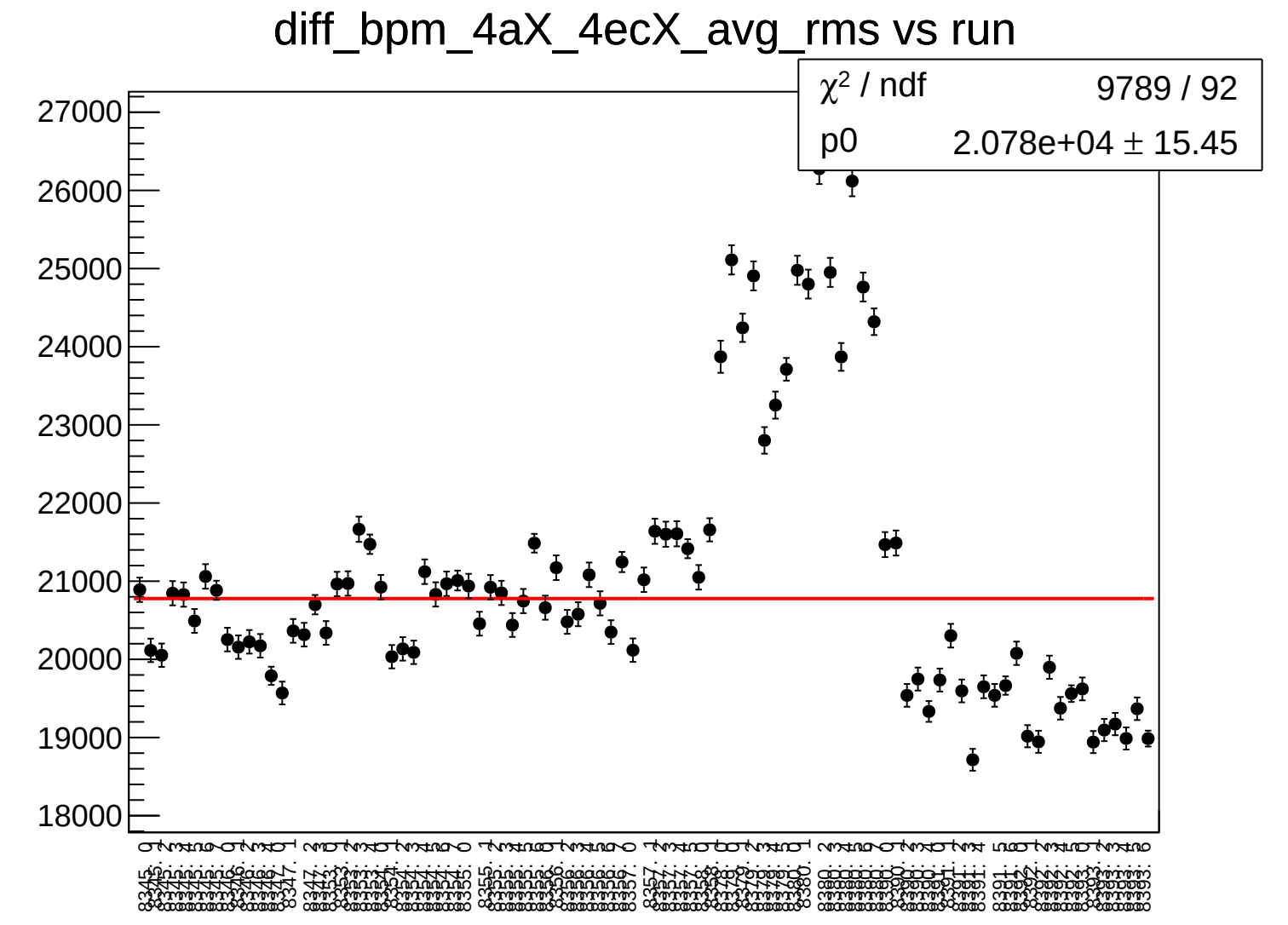

diff_bpm_4aX_4eX_dd_mean vs run
χ² / ndf 123.5 / 92
p0 −1.94 ± 0.7241
pull
Entries 93
Mean 105
Std Dev 18.96

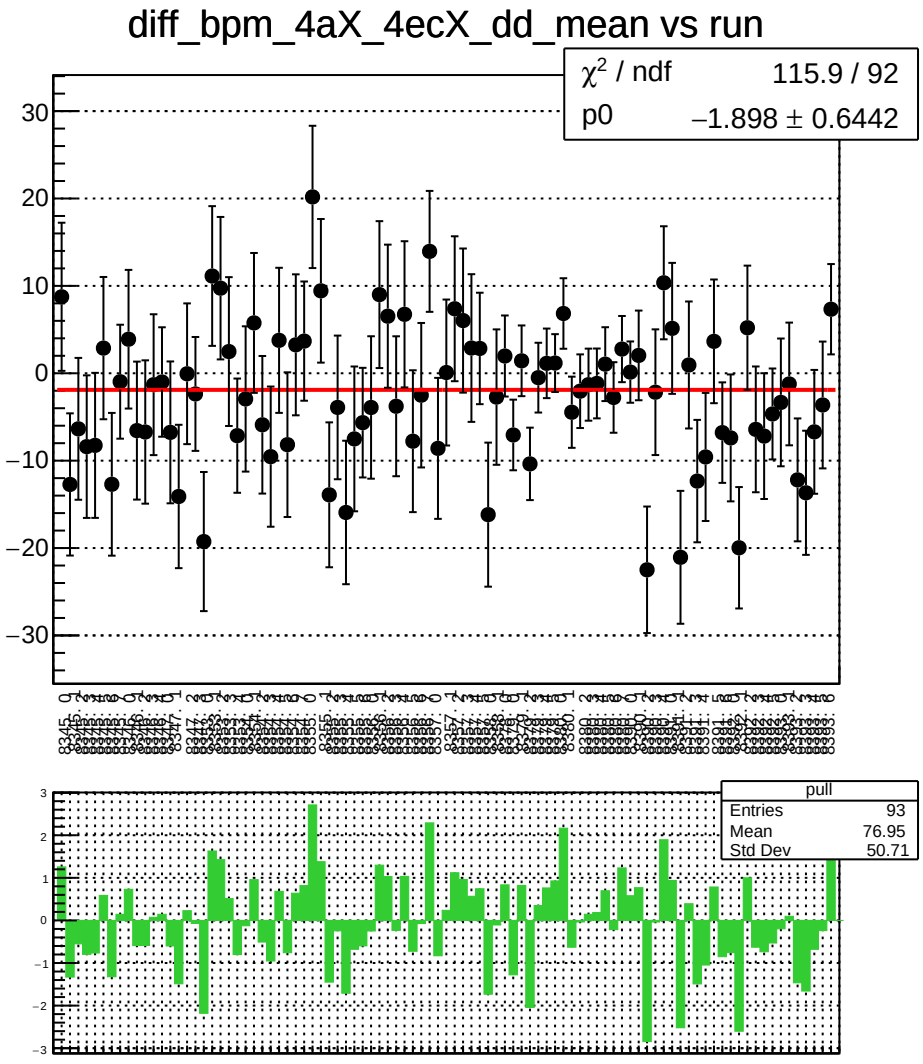

pull1D
Entries 93
Mean −0.04181
Std Dev 1.152

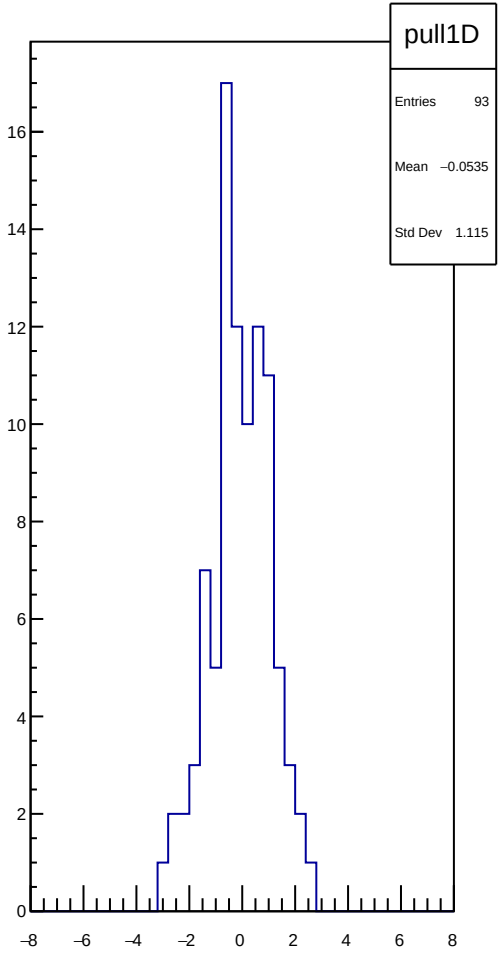

diff_bpm_4aX_4eX_dd_rms vs run
χ² / ndf 1.398e+05 / 92
p0 663.5 ± 0.512
900
800
700
600
500
400
300

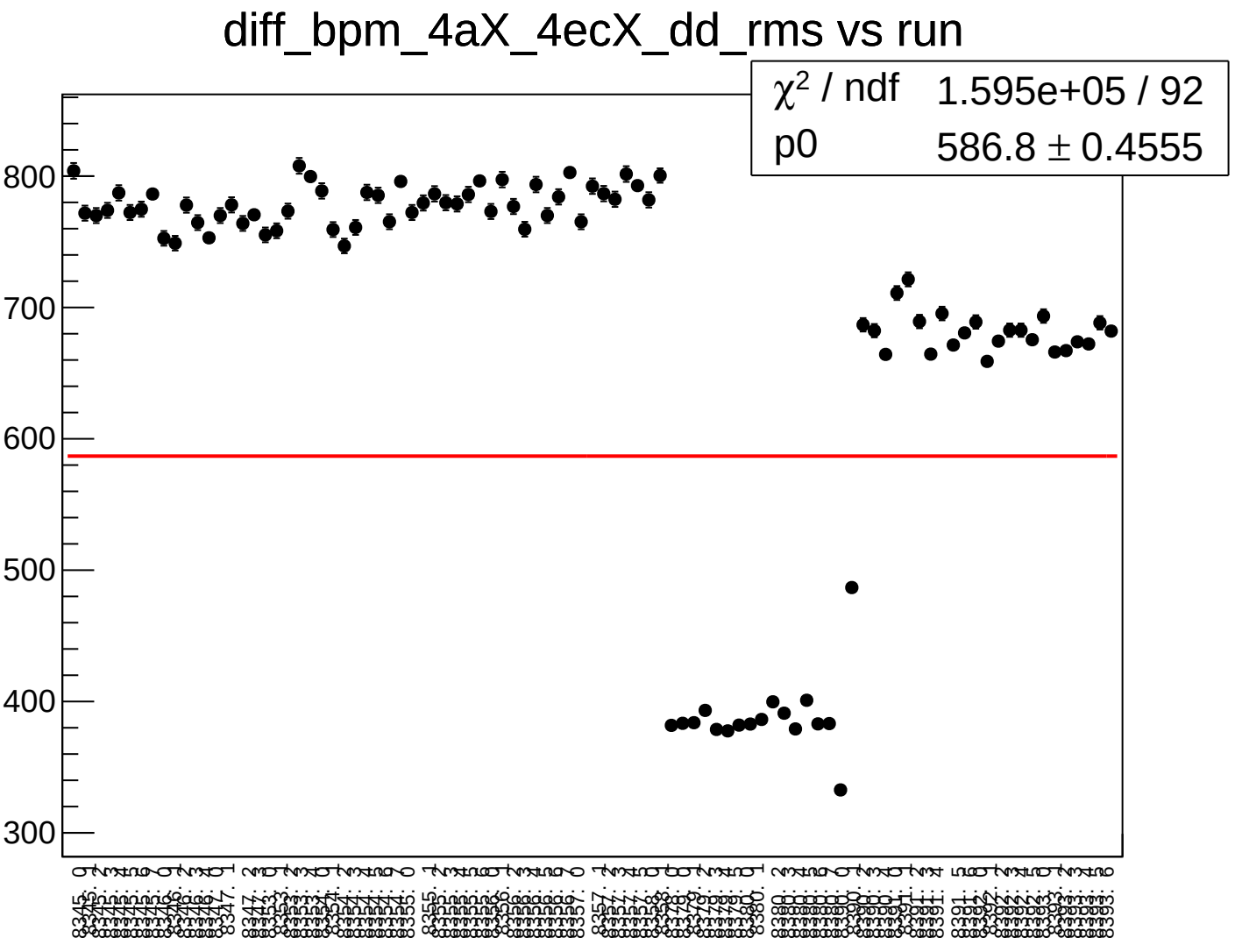

diff_bpm_4aX_4ecX_avg_mean vs run
χ² / ndf 116.8 / 92
p0 −73.76 ± 21.85
pull
Entries 93
Mean −441.5
Std Dev 0

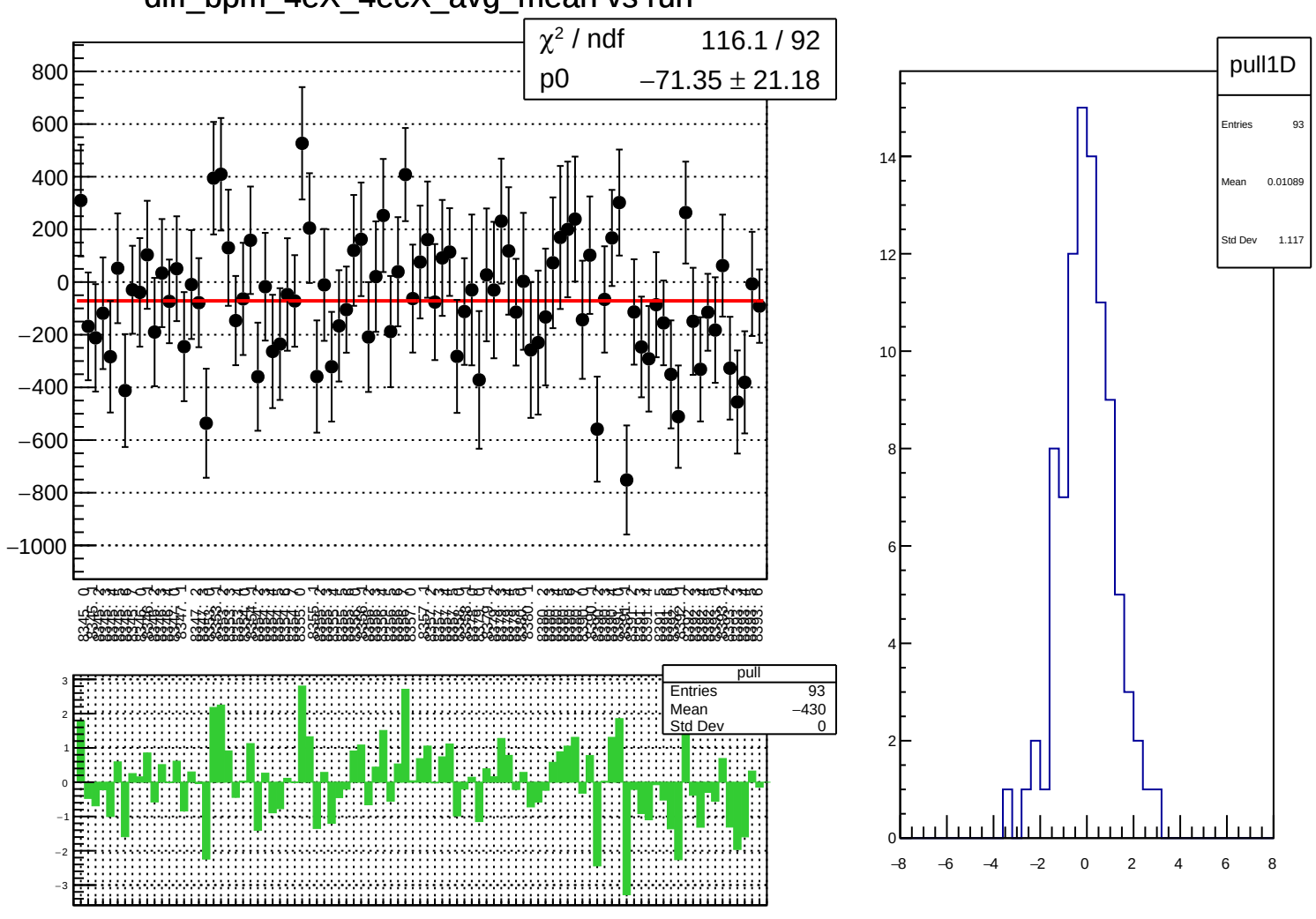

pull1D
Entries 93
Mean 0.0105
Std Dev 1.12

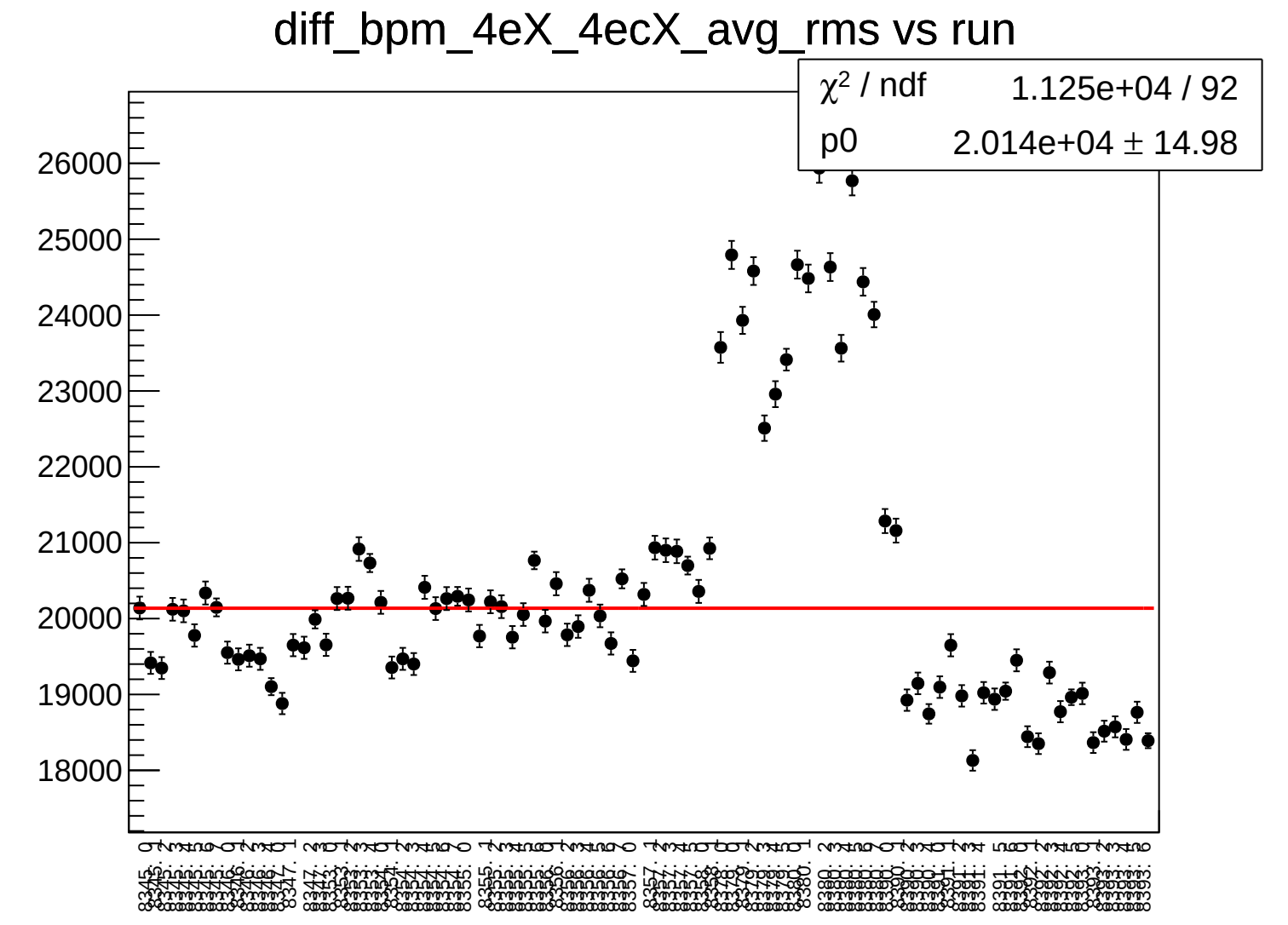

diff_bpm_4aX_4ecX_avg_rms vs run
χ² / ndf 9789 / 92
p0 2.078e+04 ± 15.45
27000
26000
25000
24000
23000
22000
21000
20000
19000
18000

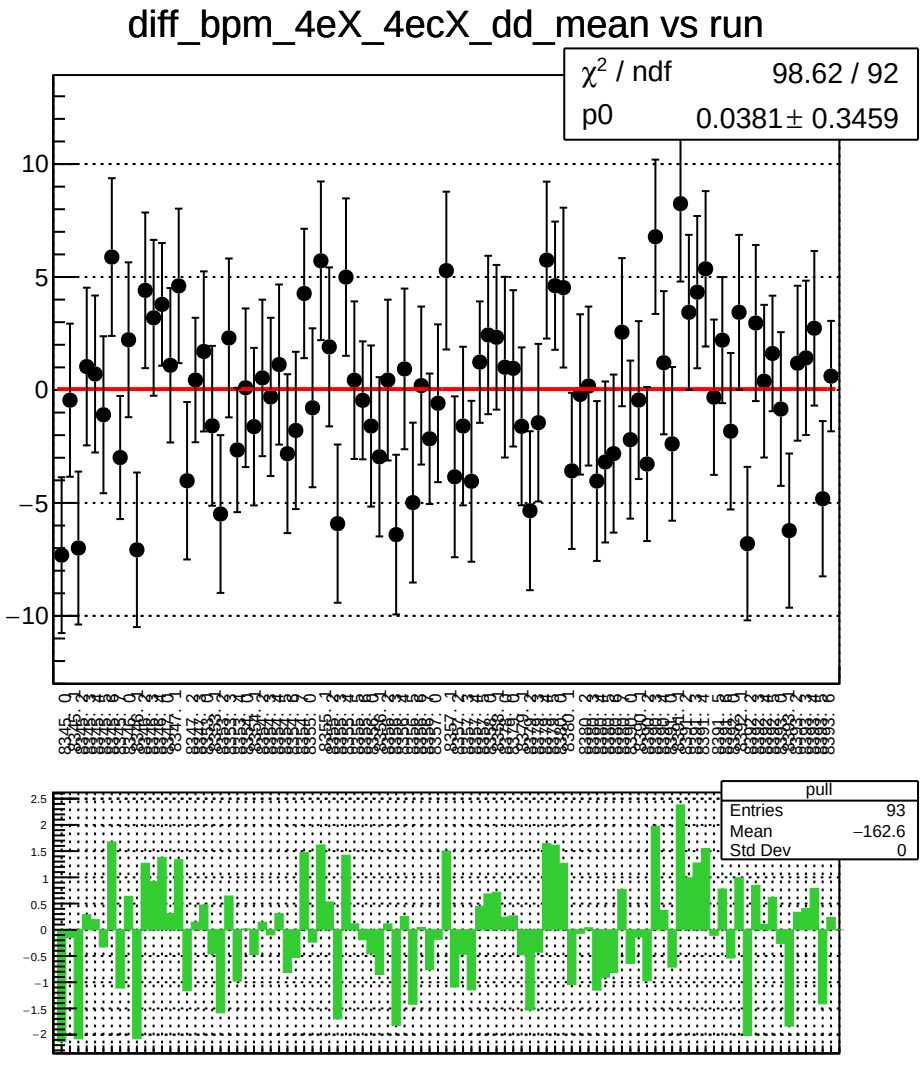

diff_bpm_4aX_4ecX_dd_mean vs run
χ² / ndf 115.9 / 92
p0 −1.898 ± 0.6442
pull
Entries 93
Mean 76.95
Std Dev 50.71

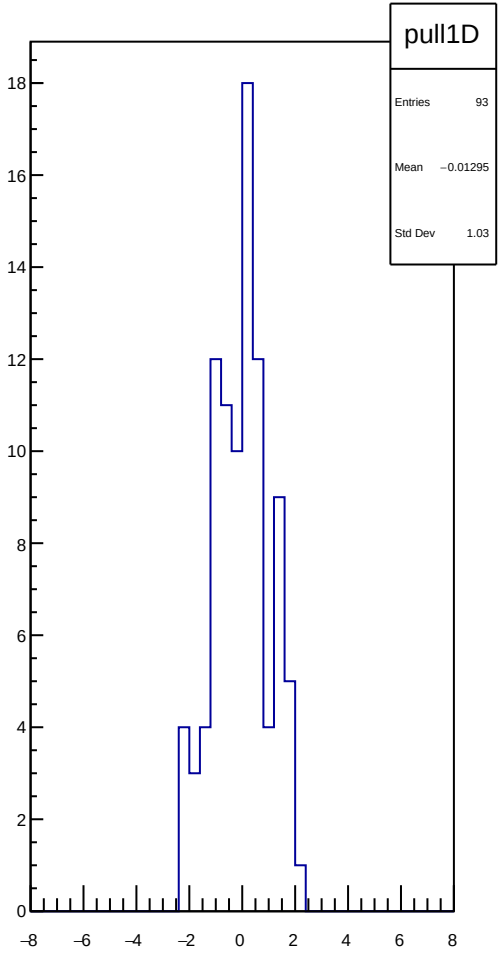

pull1D
Entries 93
Mean −0.0535
Std Dev 1.115

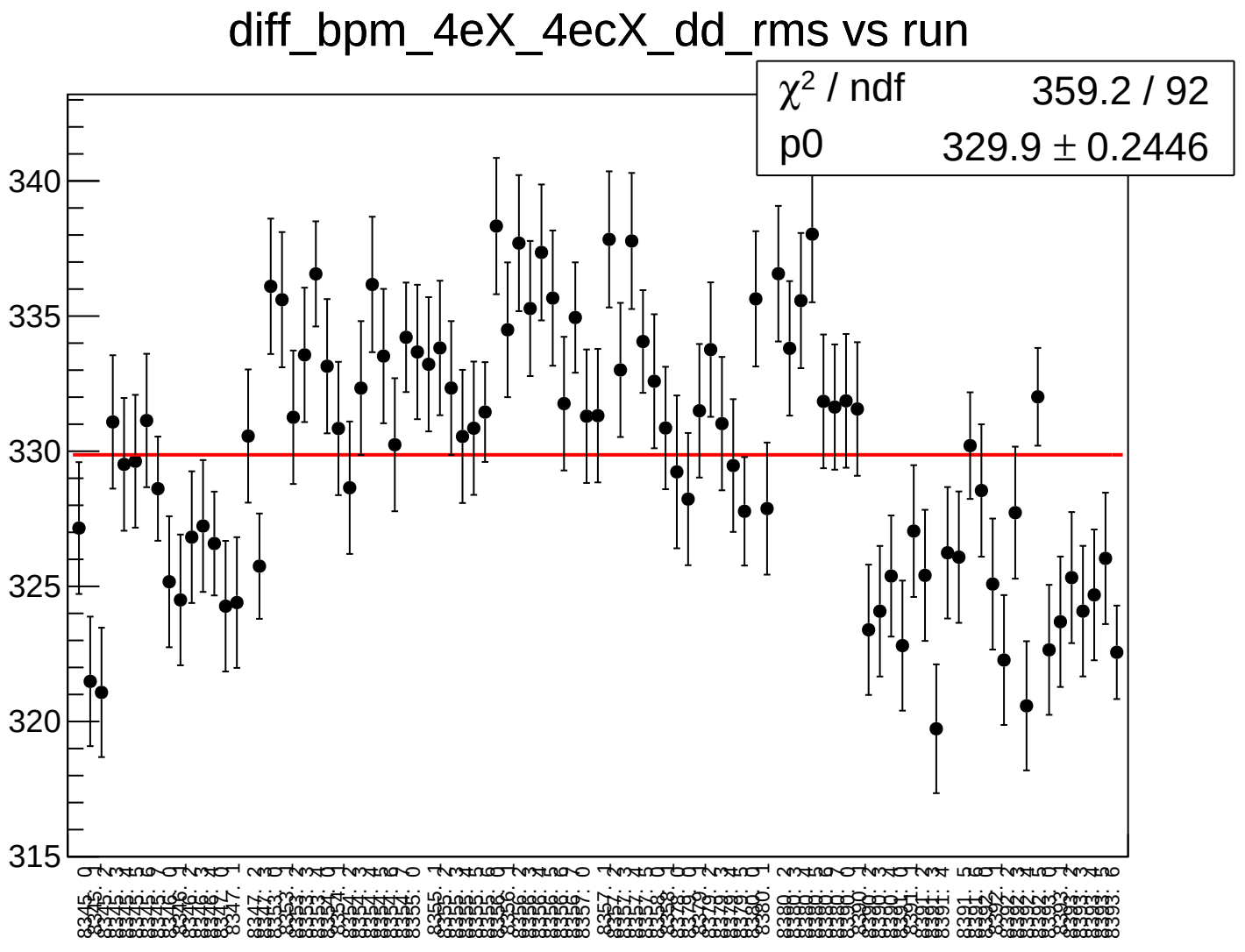

diff_bpm_4aX_4ecX_dd_rms vs run
χ² / ndf 1.595e+05 / 92
p0 586.8 ± 0.4555
800
700
600
500
400
300

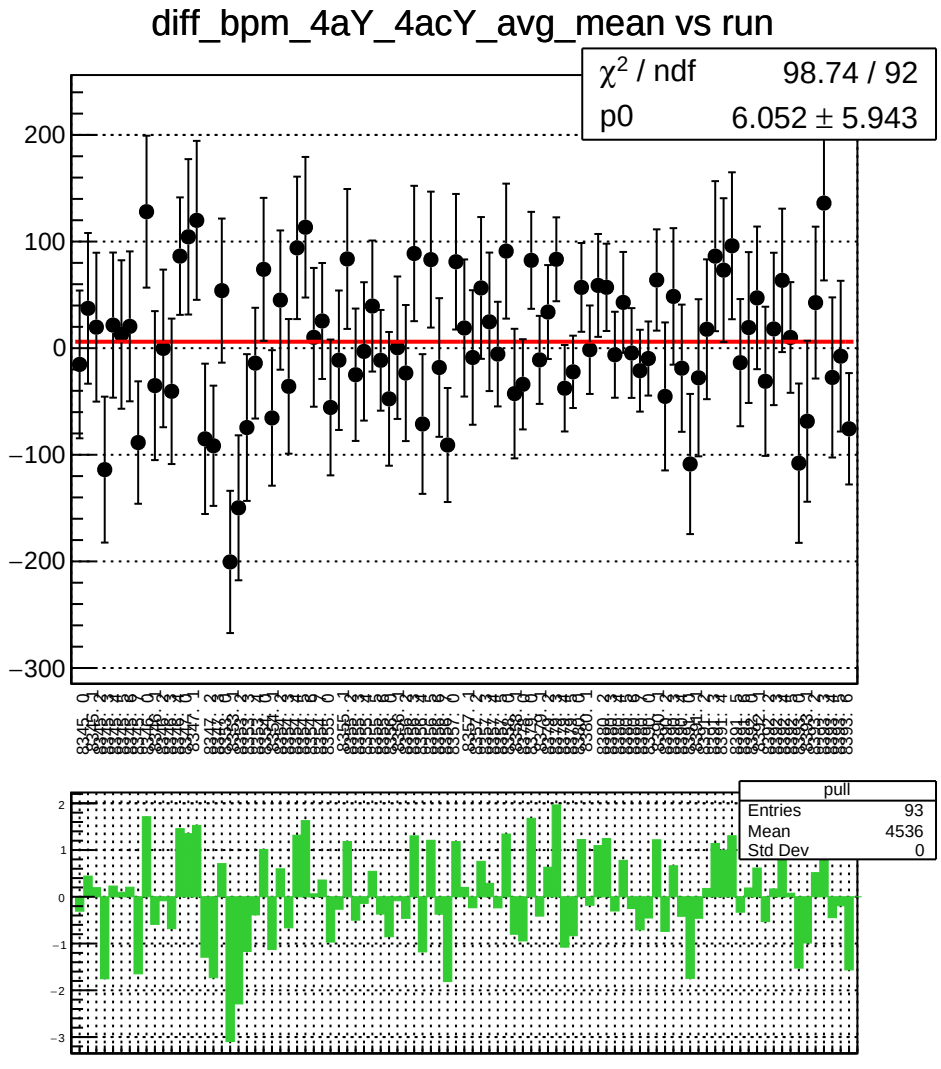

diff_bpm_4eX_4ecX_avg_mean vs run
χ² / ndf 116.1 / 92
p0 −71.35 ± 21.18
800
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 93
Mean −430
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.01089
Std Dev 1.117
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

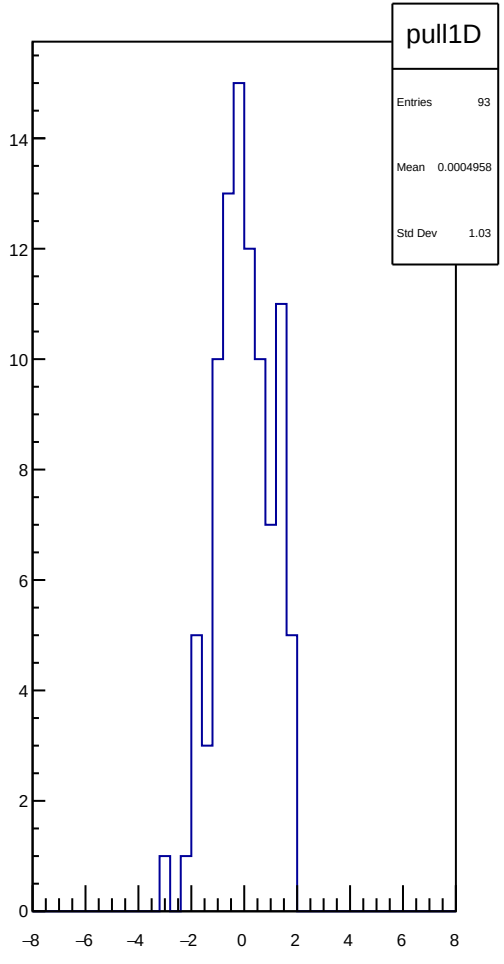

diff_bpm_4eX_4ecX_avg_rms vs run
χ² / ndf 1.125e+04 / 92
p0 2.014e+04 ± 14.98
26000
25000
24000
23000
22000
21000
20000
19000
18000

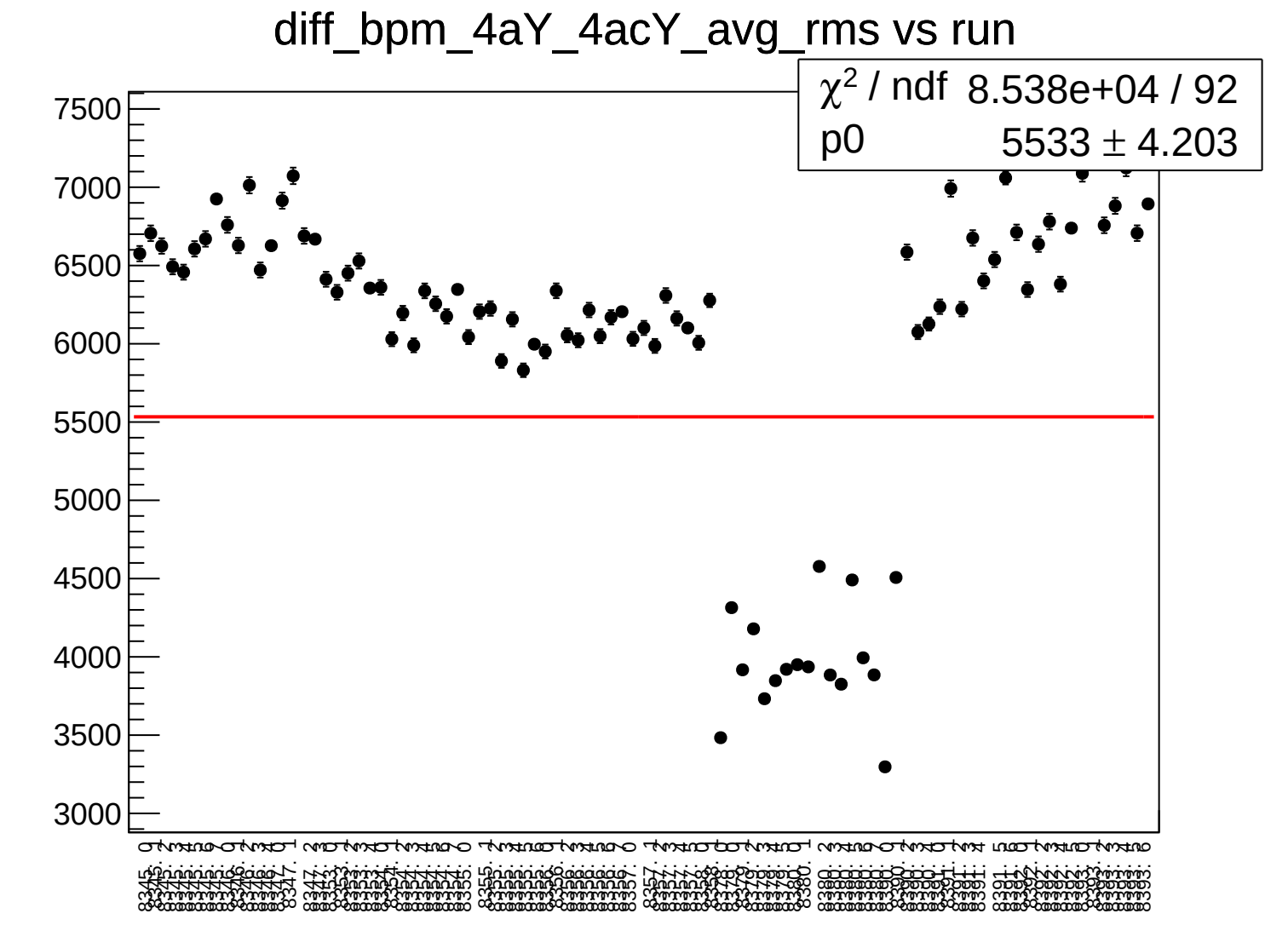

diff_bpm_4eX_4ecX_dd_mean vs run
χ² / ndf 98.62 / 92
p0 0.0381 ± 0.3459
pull
Entries 93
Mean −162.6
Std Dev 0

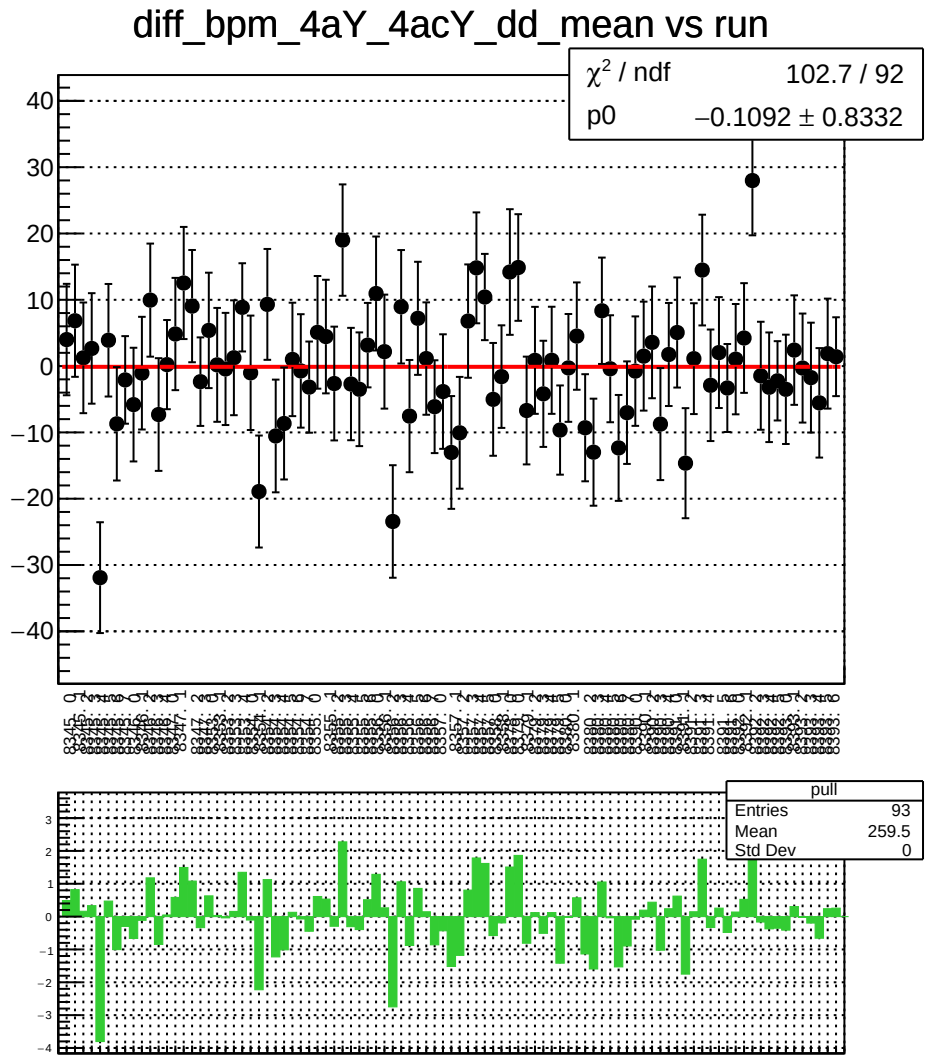

pull1D
Entries 93
Mean −0.01295
Std Dev 1.03

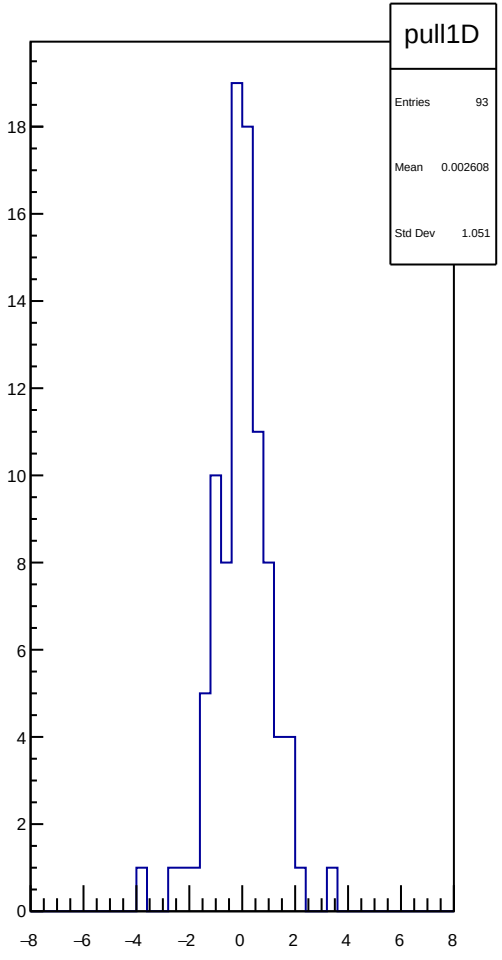

diff_bpm_4eX_4ecX_dd_rms vs run
χ² / ndf 359.2 / 92
p0 329.9 ± 0.2446
340
335
330
325
320
315

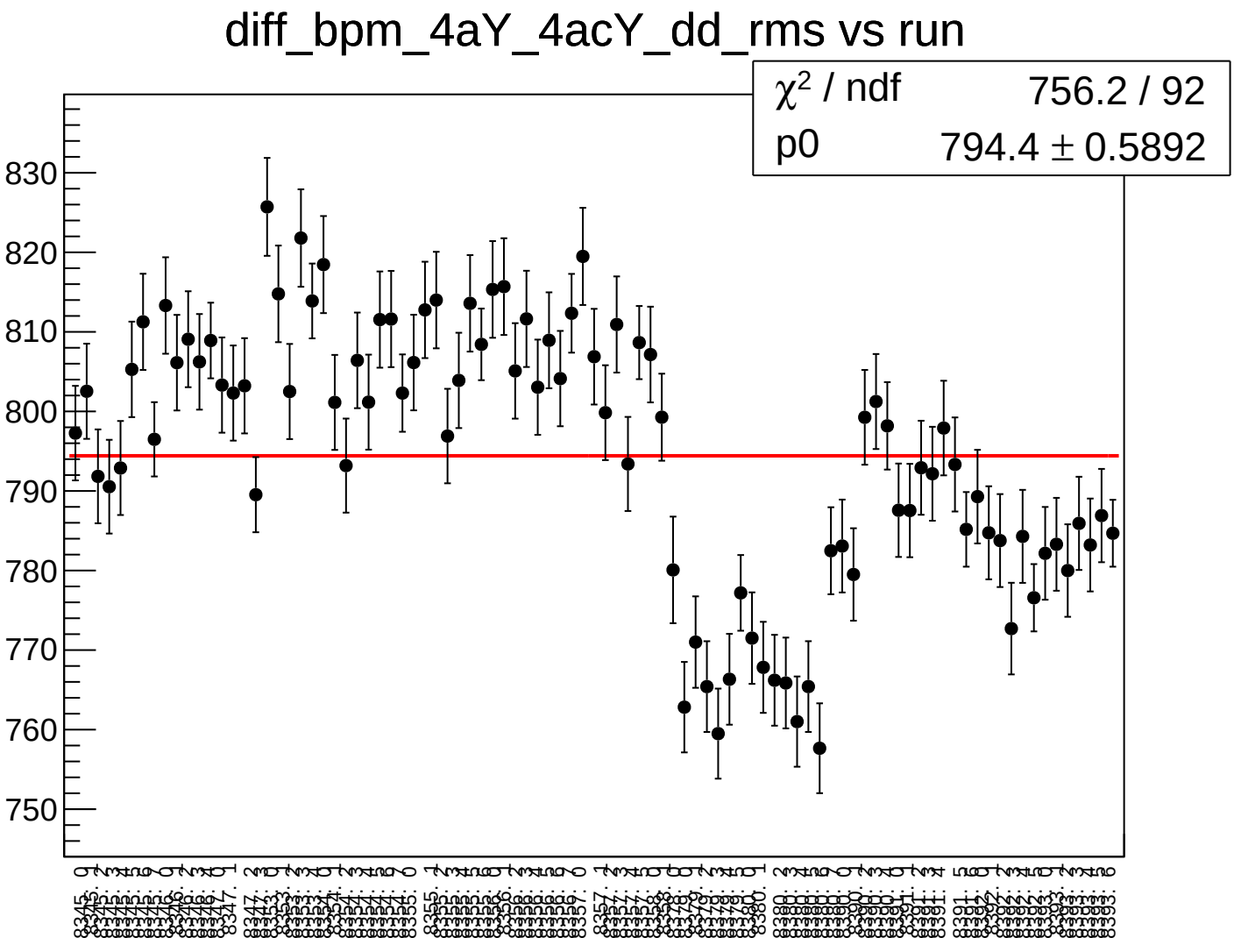

diff_bpm_4aY_4acY_avg_mean vs run
χ² / ndf 98.74 / 92
p0 6.052 ± 5.943
200
100
0
−100
−200
−300
pull
Entries 93
Mean 4536
Std Dev 0
2
1
0
−1
−2
−3

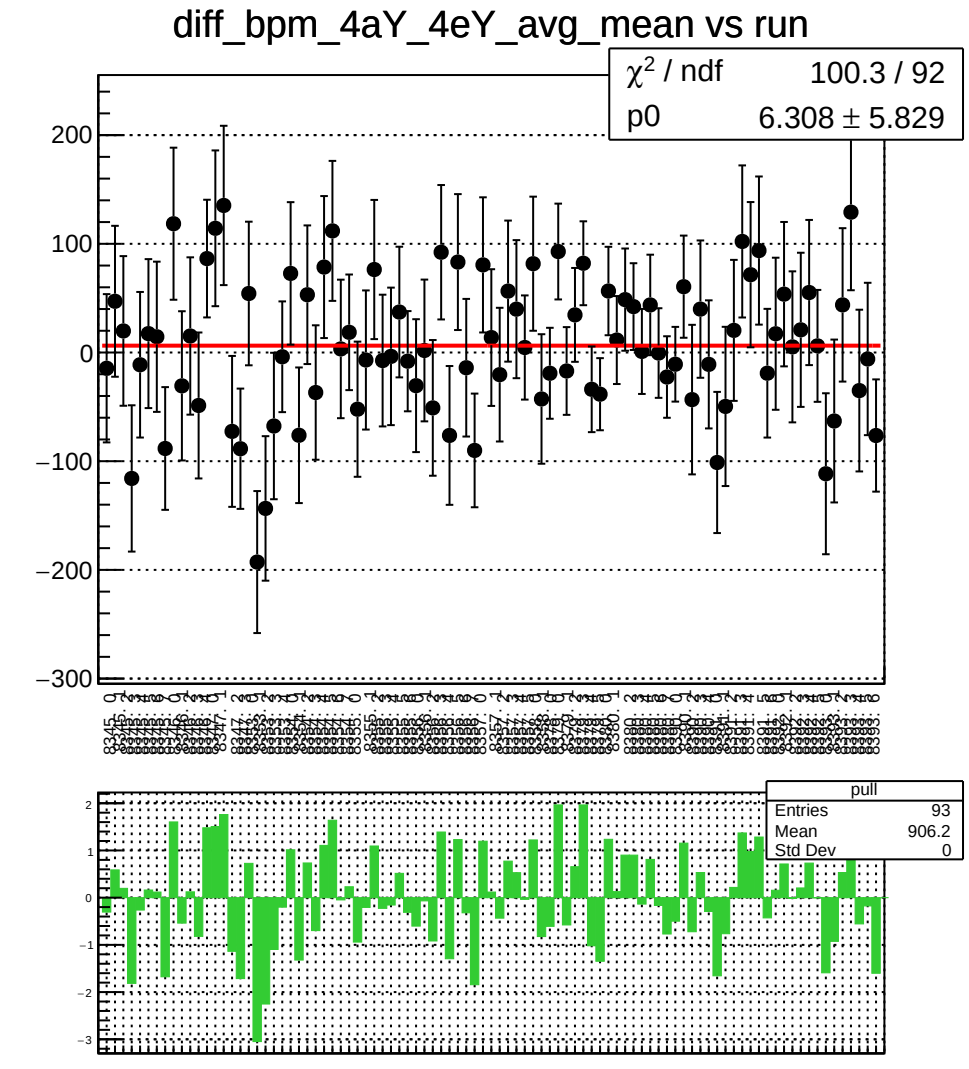

pull1D
Entries 93
Mean 0.0004958
Std Dev 1.03
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

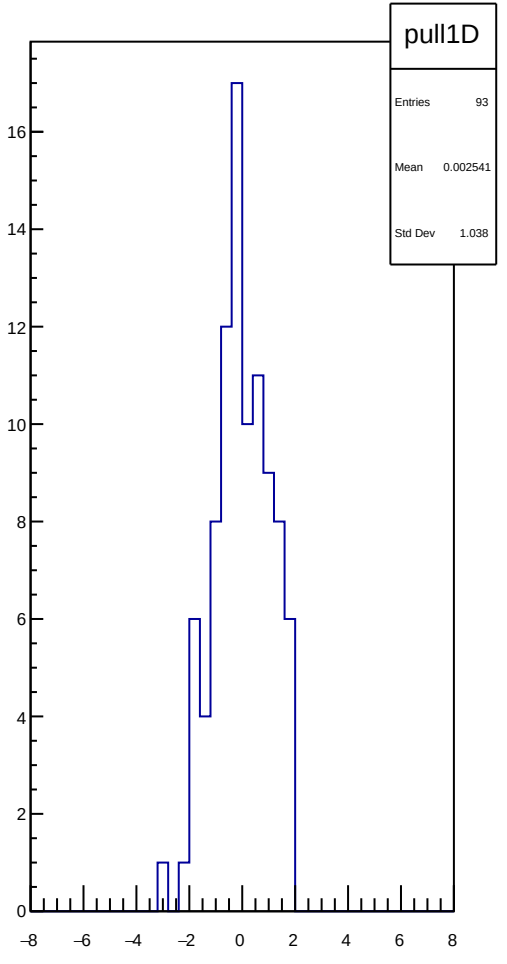

diff_bpm_4aY_4acY_avg_rms vs run
χ² / ndf 8.538e+04 / 92
p0 5533 ± 4.203
7500
7000
6500
6000
5500
5000
4500
4000
3500
3000

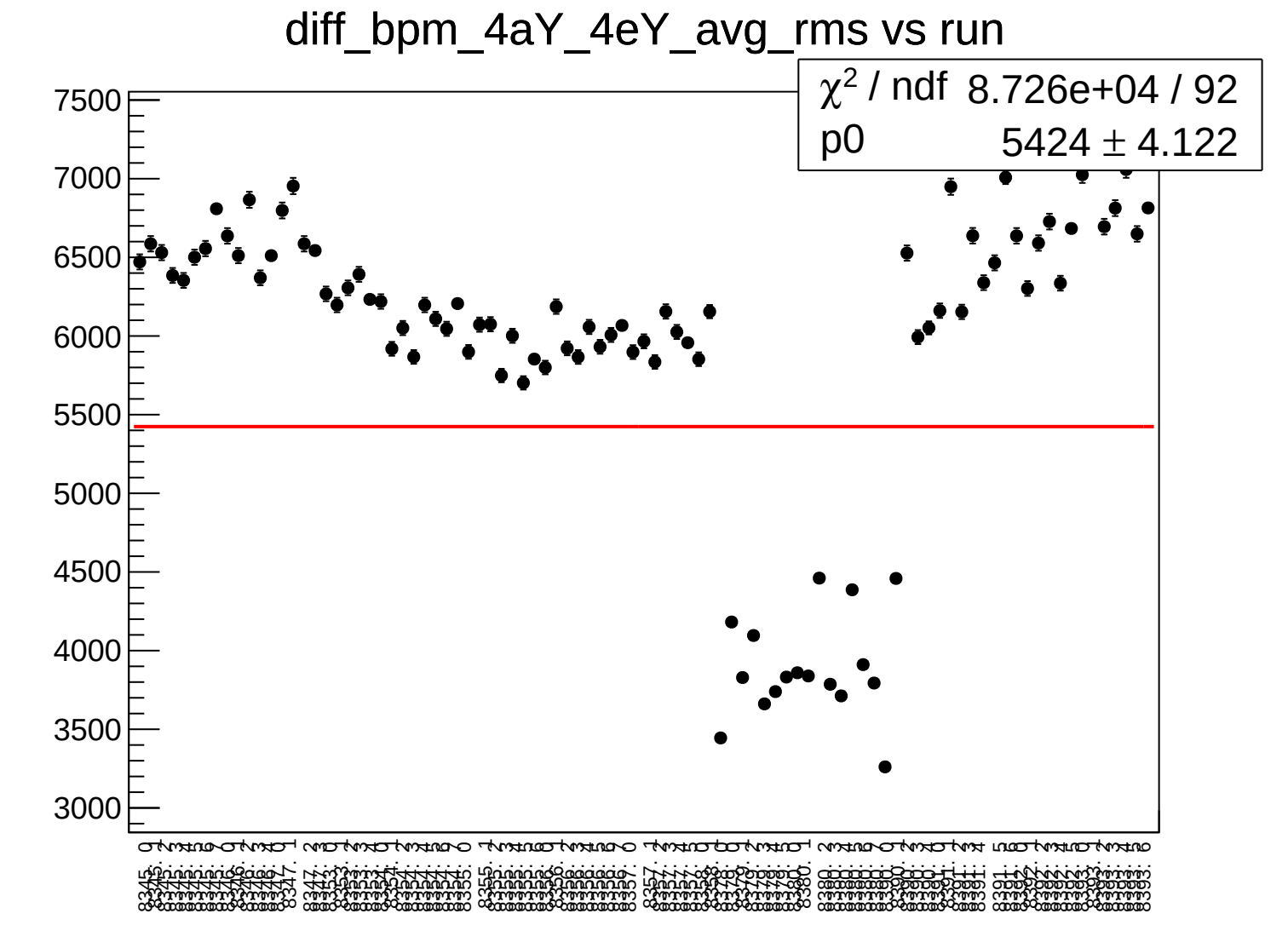

diff_bpm_4aY_4acY_dd_mean vs run
χ² / ndf 102.7 / 92
p0 −0.1092 ± 0.8332
pull
Entries 93
Mean 259.5
Std Dev 0

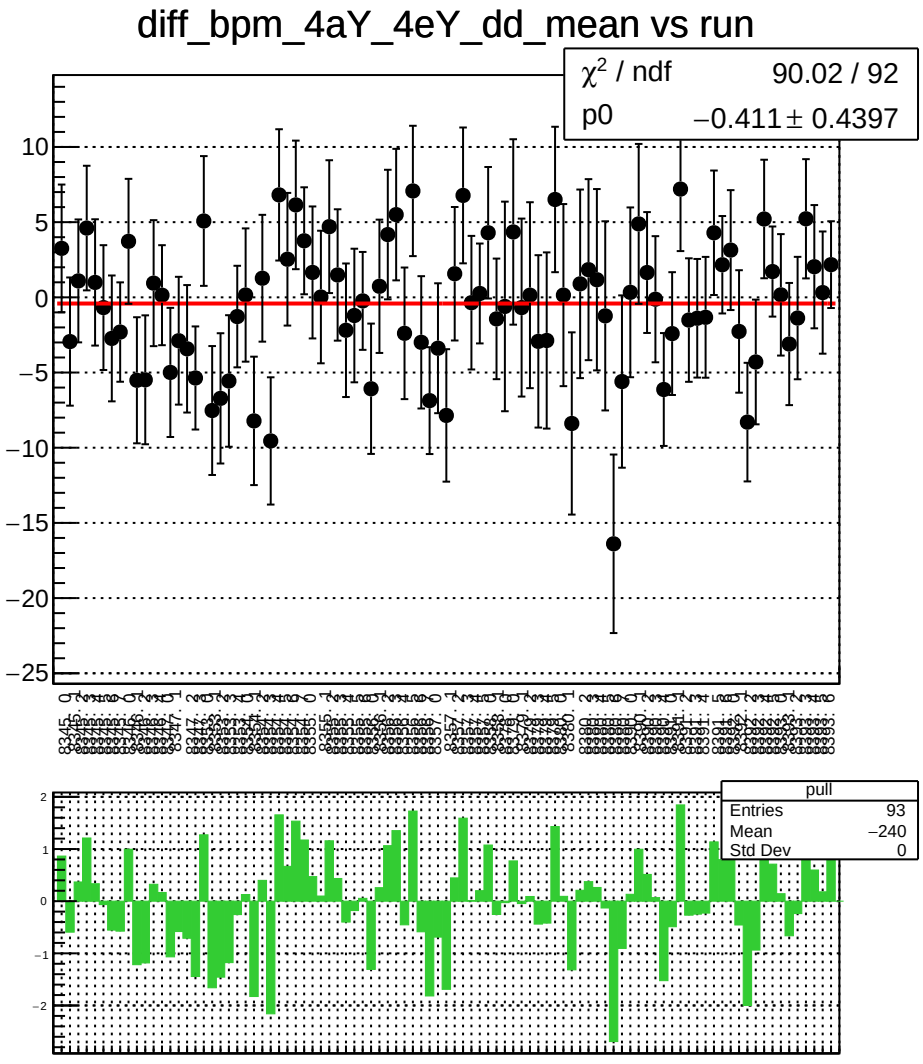

pull1D
Entries 93
Mean 0.002608
Std Dev 1.051

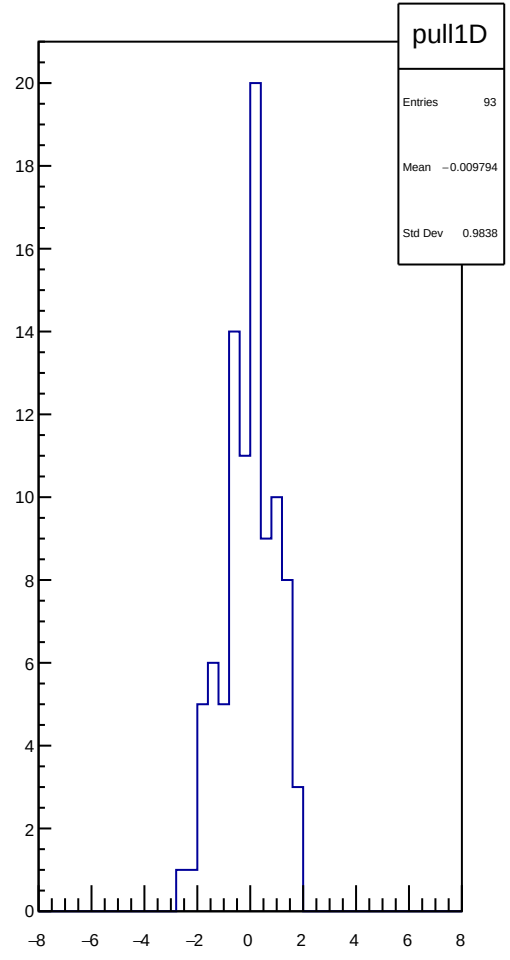

diff_bpm_4aY_4acY_dd_rms vs run
χ² / ndf 756.2 / 92
p0 794.4 ± 0.5892
830
820
810
800
790
780
770
760
750

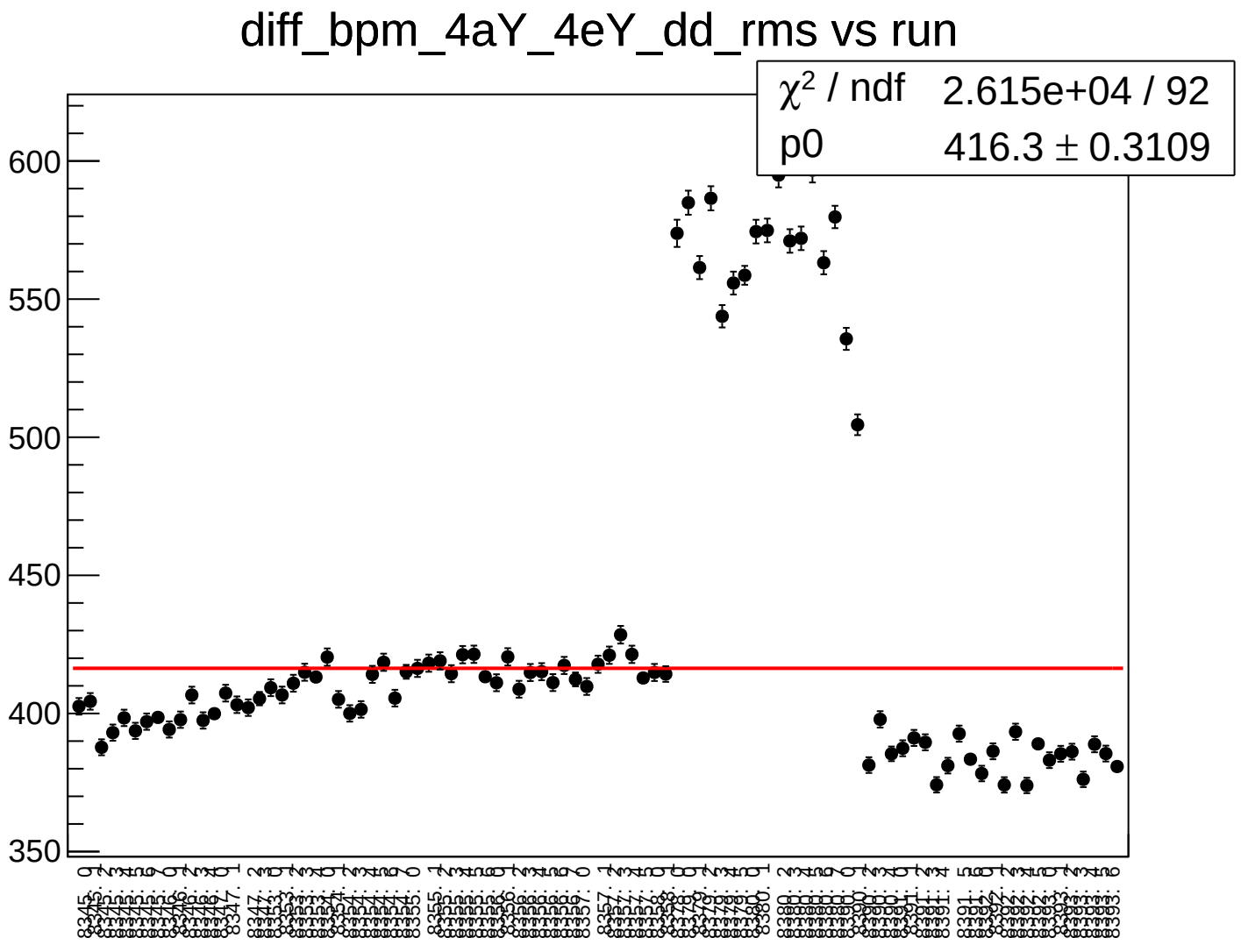

diff_bpm_4aY_4eY_avg_mean vs run
χ² / ndf 100.3 / 92
p0 6.308 ± 5.829
200
100
0
−100
−200
−300
pull
Entries 93
Mean 906.2
Std Dev 0
2
1
0
−1
−2
−3

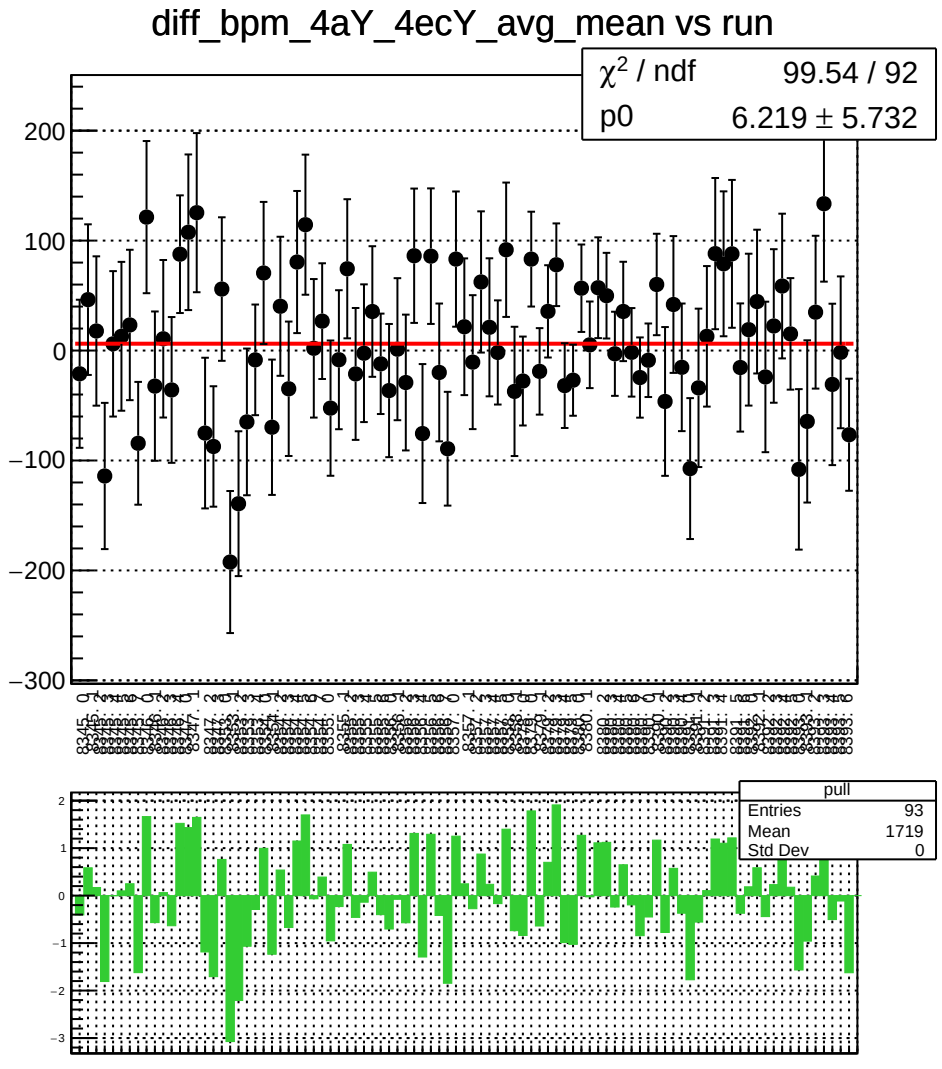

pull1D
Entries 93
Mean 0.002541
Std Dev 1.038
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

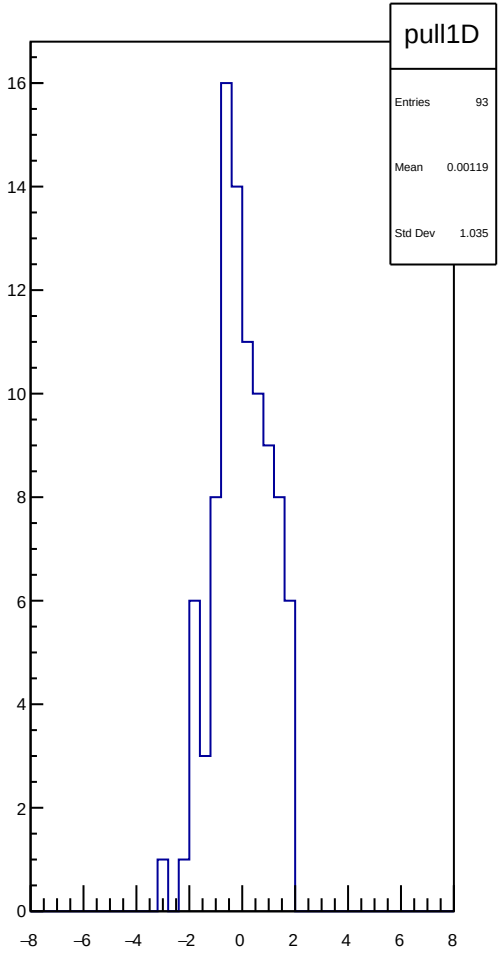

diff_bpm_4aY_4eY_avg_rms vs run
χ² / ndf 8.726e+04 / 92
p0 5424 ± 4.122
7500
7000
6500
6000
5500
5000
4500
4000
3500
3000

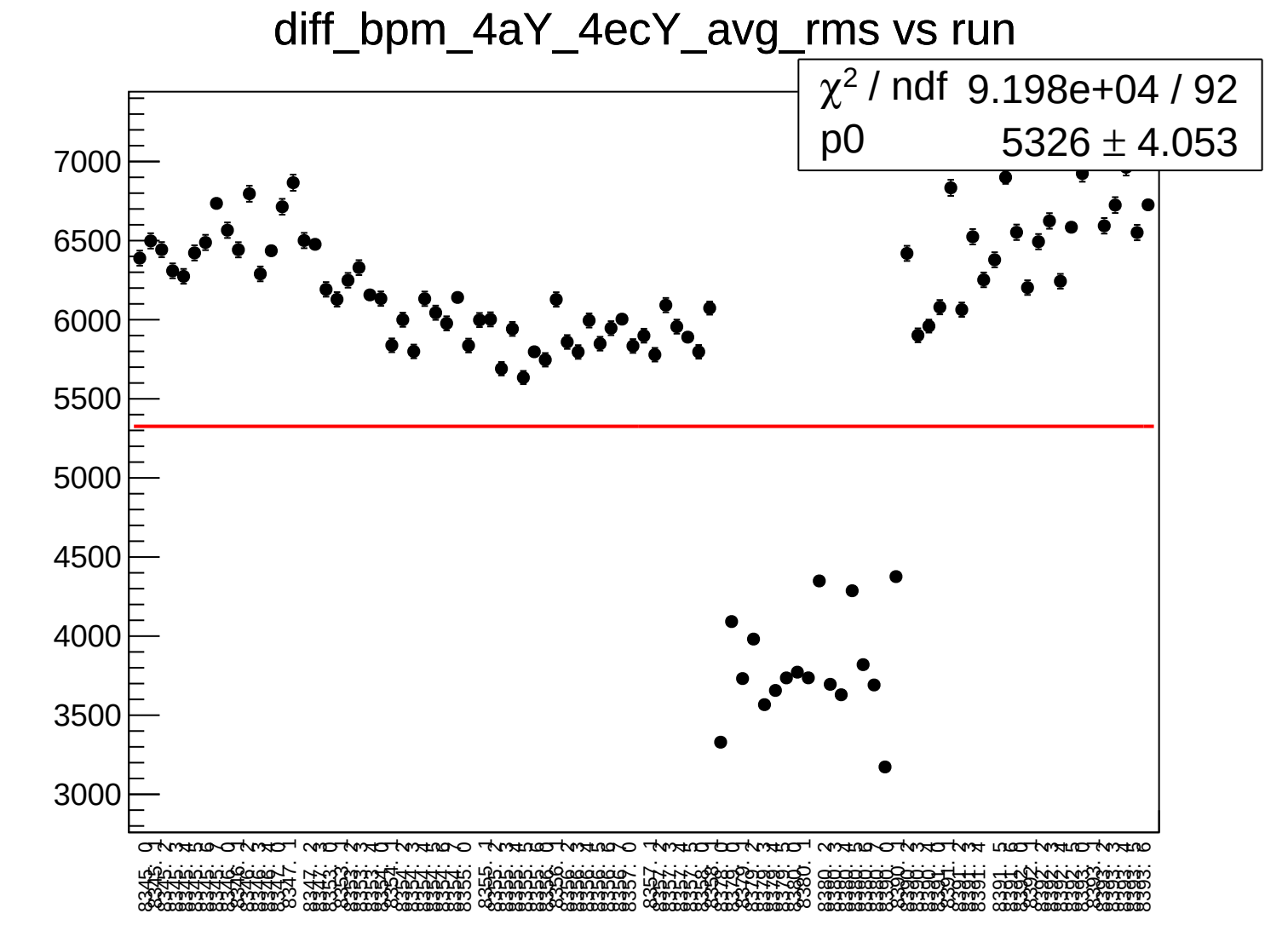

diff_bpm_4aY_4eY_dd_mean vs run
χ² / ndf 90.02 / 92
p0 −0.411 ± 0.4397
pull
Entries 93
Mean −240
Std Dev 0

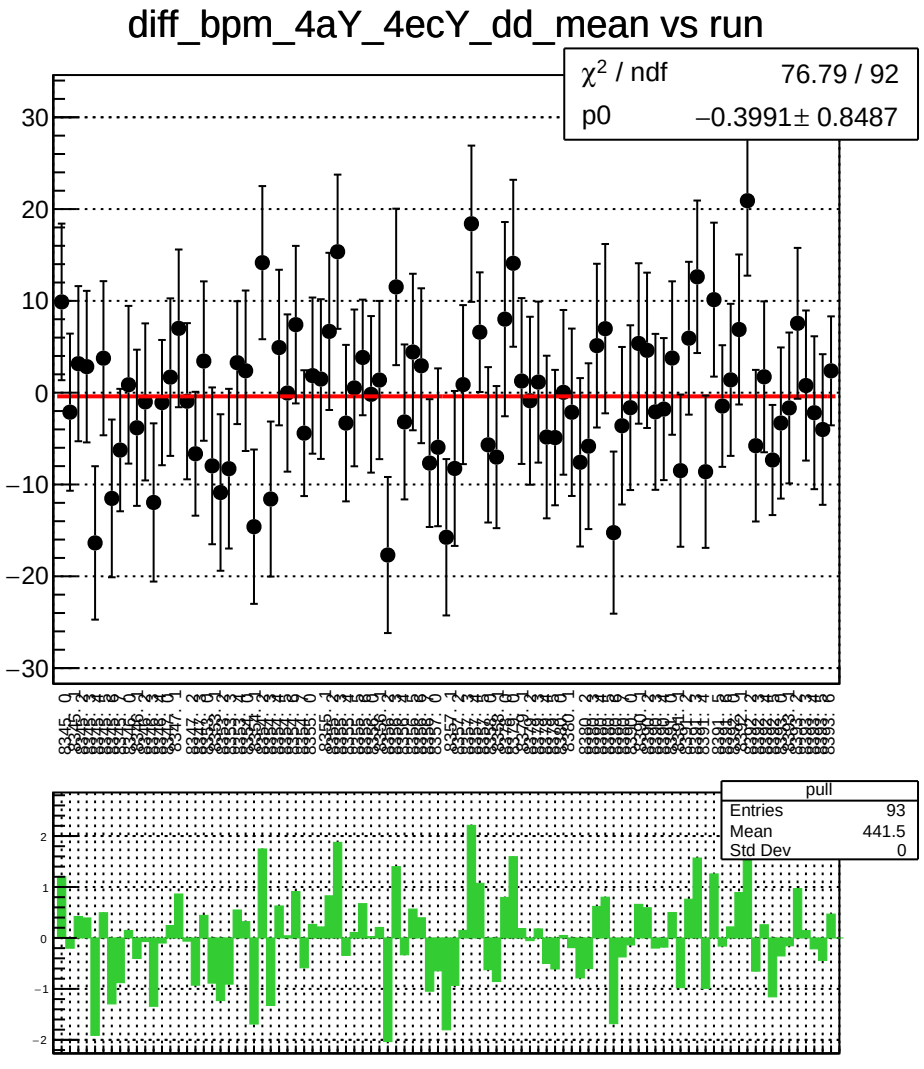

pull1D
Entries 93
Mean −0.009794
Std Dev 0.9838

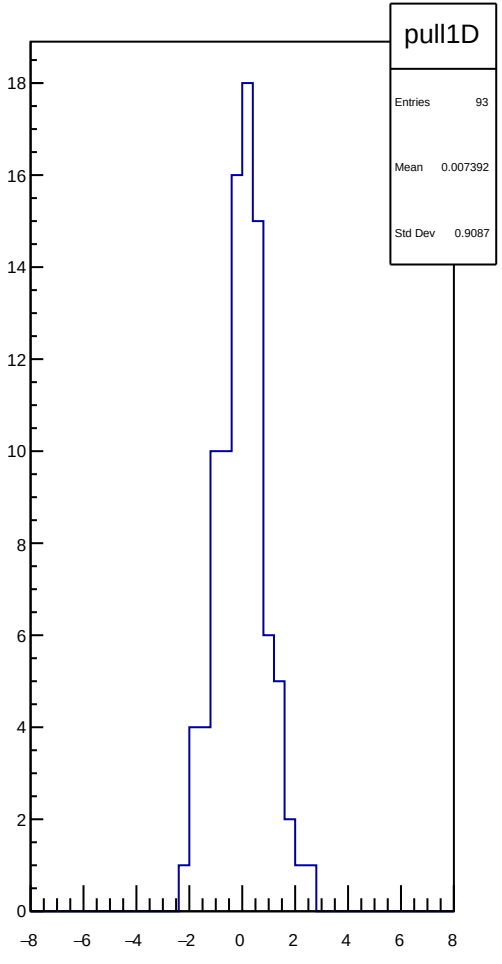

diff_bpm_4aY_4eY_dd_rms vs run
χ² / ndf 2.615e+04 / 92
p0 416.3 ± 0.3109
600
550
500
450
400
350

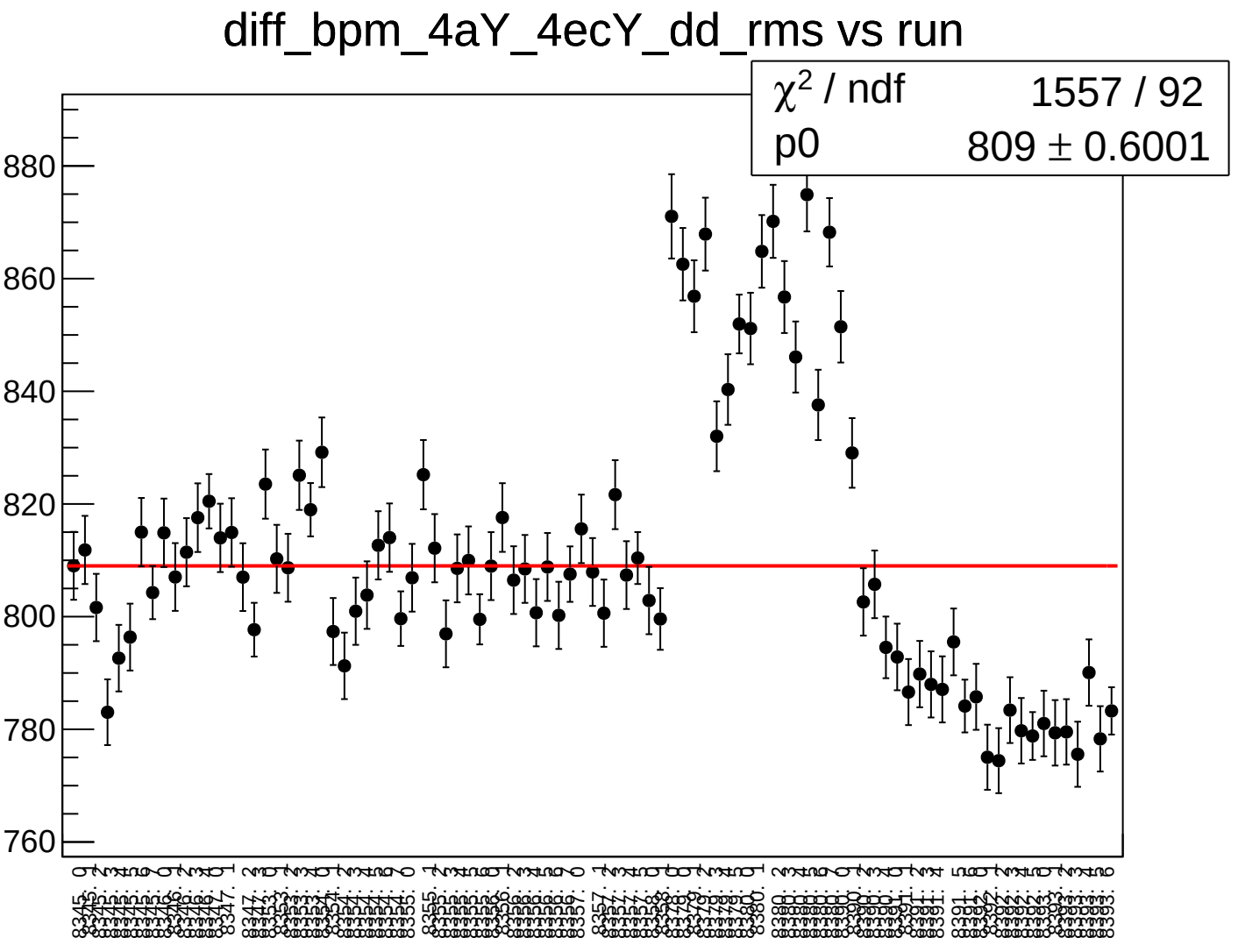

diff_bpm_4aY_4ecY_avg_mean vs run
χ² / ndf 99.54 / 92
p0 6.219 ± 5.732
pull
Entries 93
Mean 1719
Std Dev 0

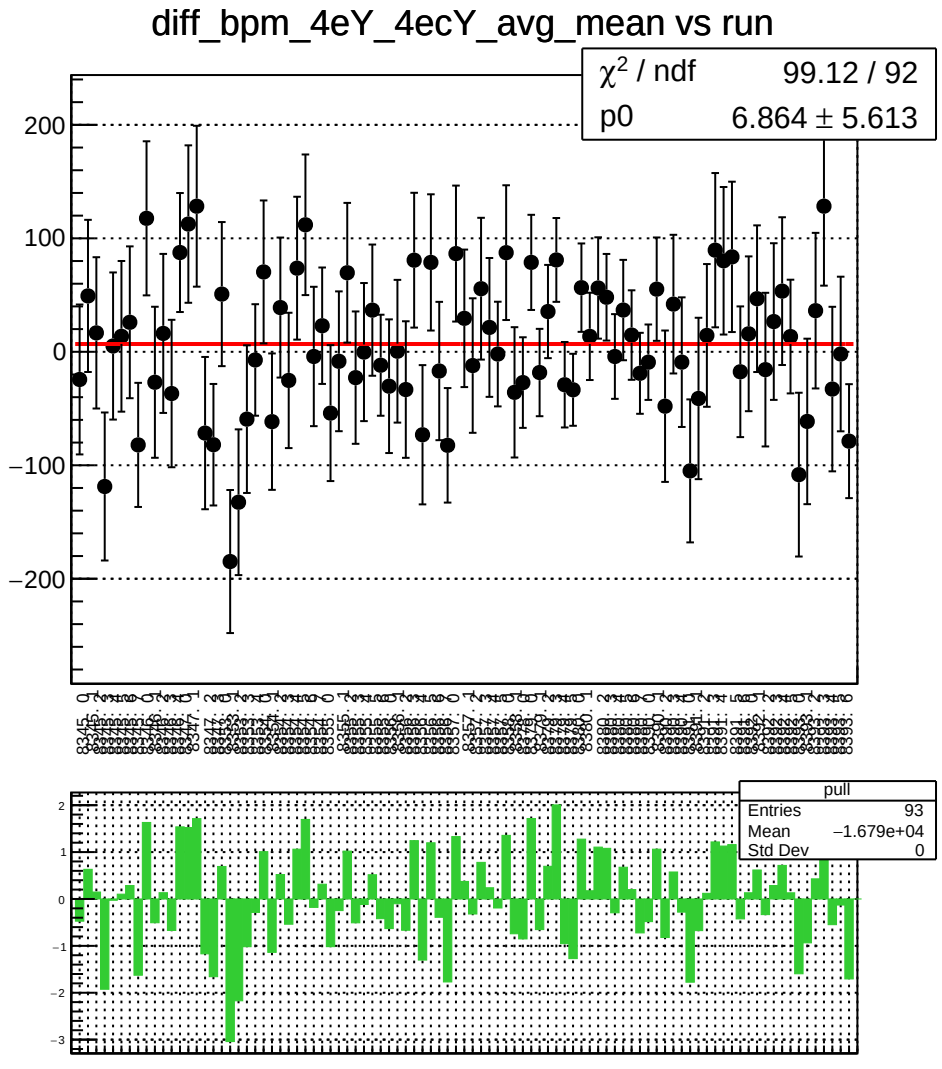

pull1D
Entries 93
Mean 0.00119
Std Dev 1.035

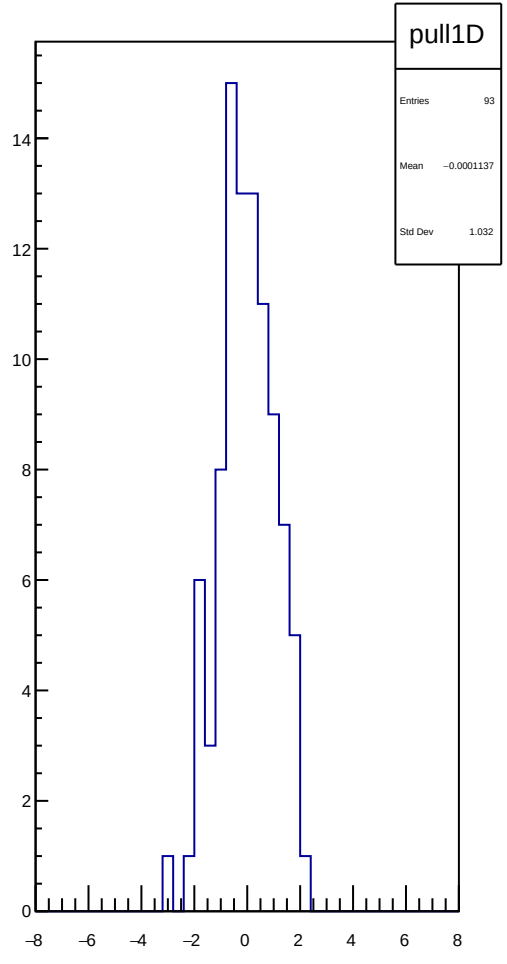

diff_bpm_4aY_4ecY_avg_rms vs run
χ^2 / ndf 9.198e+04 / 92
p0 5326 ± 4.053
7000
6500
6000
5500
5000
4500
4000
3500
3000

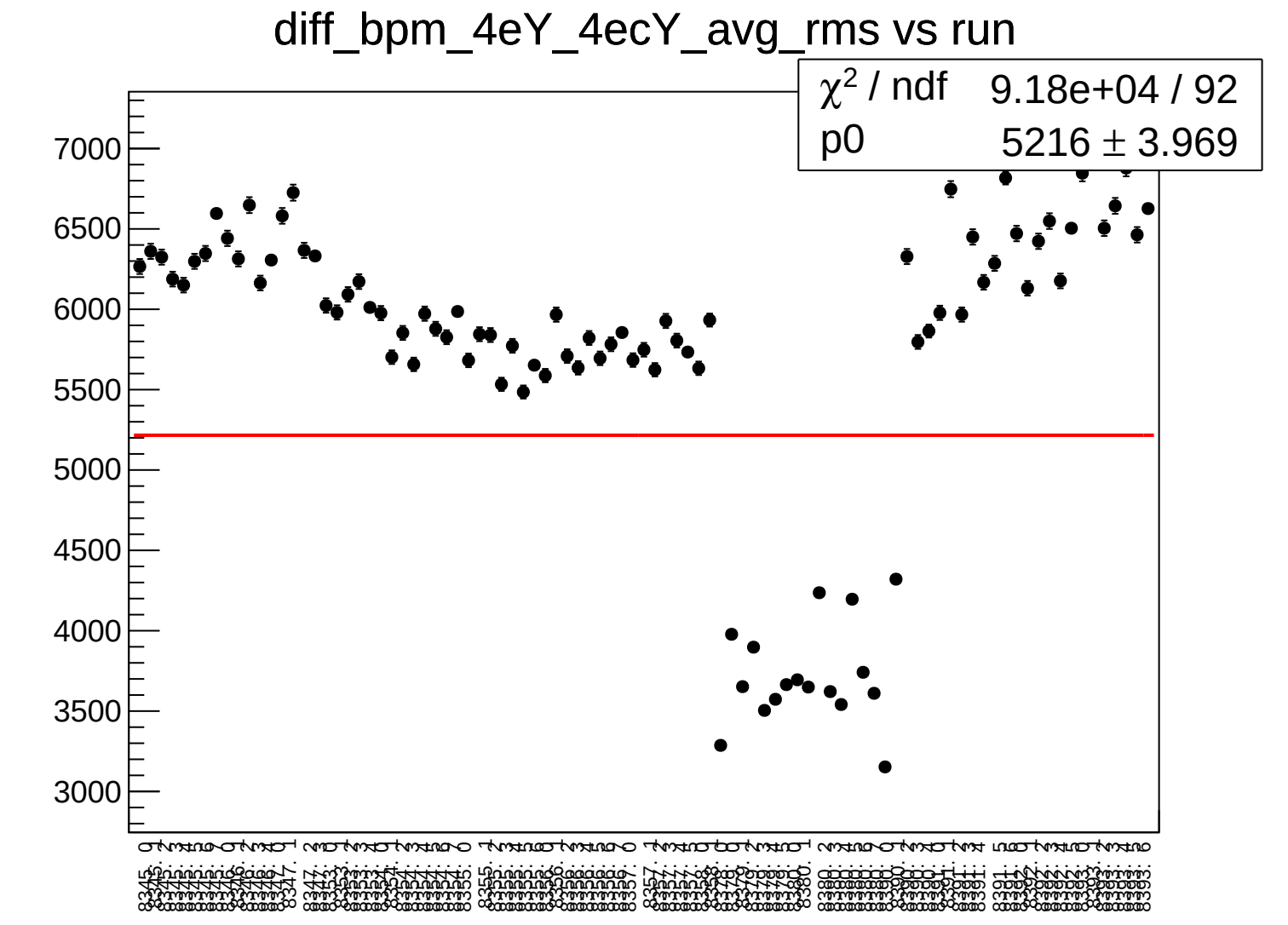

diff_bpm_4aY_4ecY_dd_mean vs run
χ² / ndf 76.79 / 92
p0 −0.3991 ± 0.8487
pull
Entries 93
Mean 441.5
Std Dev 0

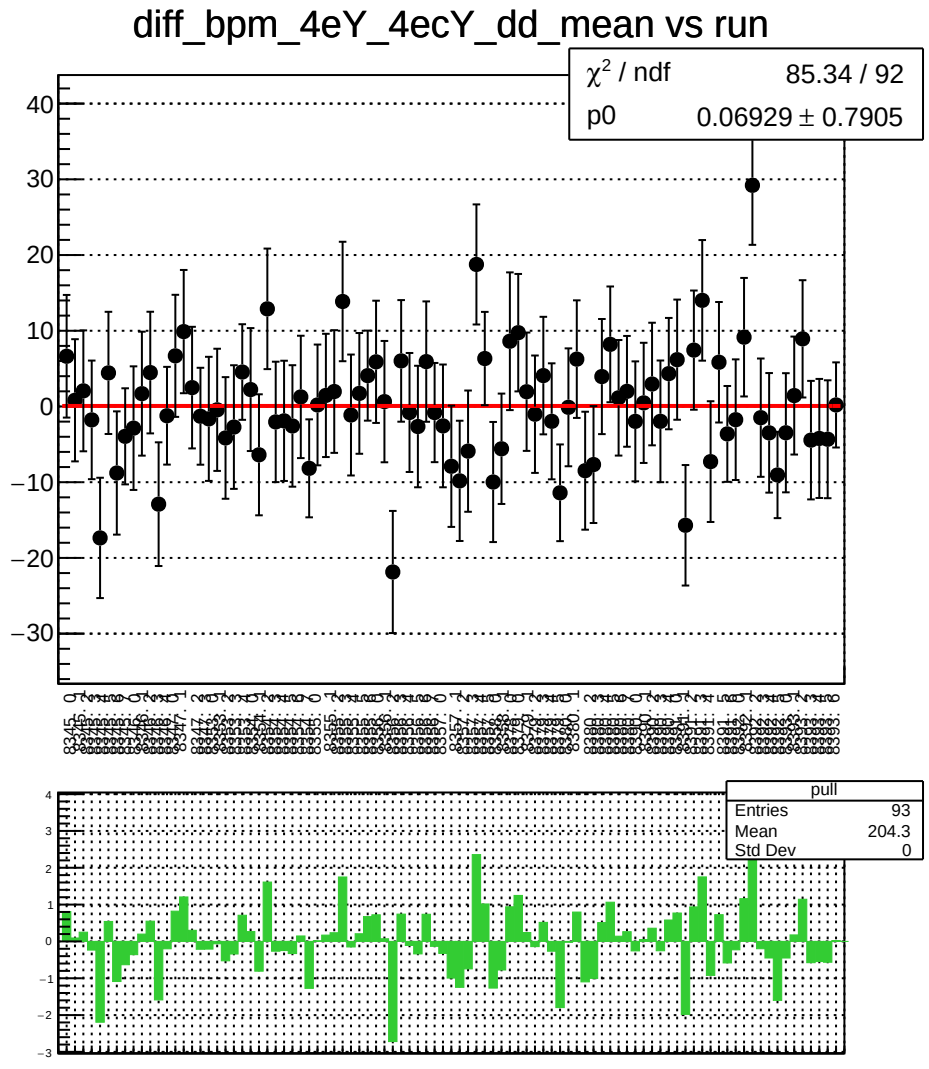

pull1D
Entries 93
Mean 0.007392
Std Dev 0.9087

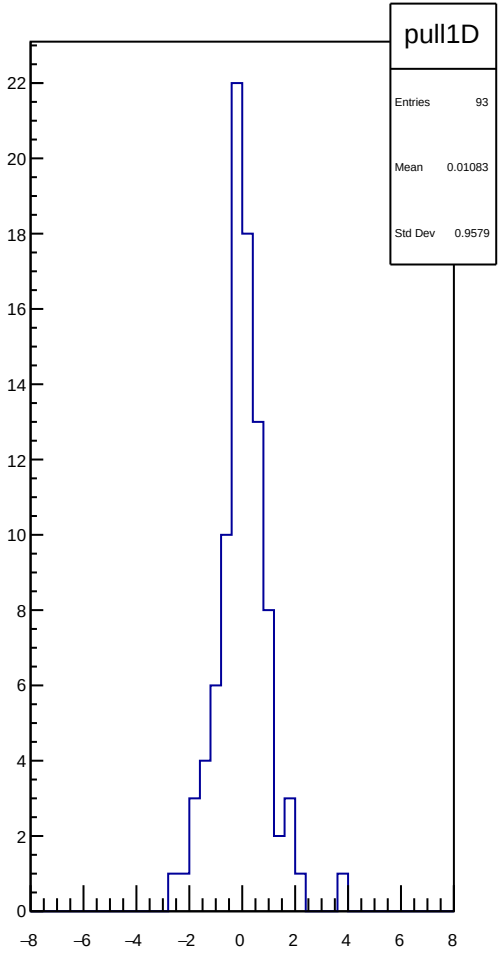

diff_bpm_4aY_4ecY_dd_rms vs run
χ² / ndf 1557 / 92
p0 809 ± 0.6001
880
860
840
820
800
780
760

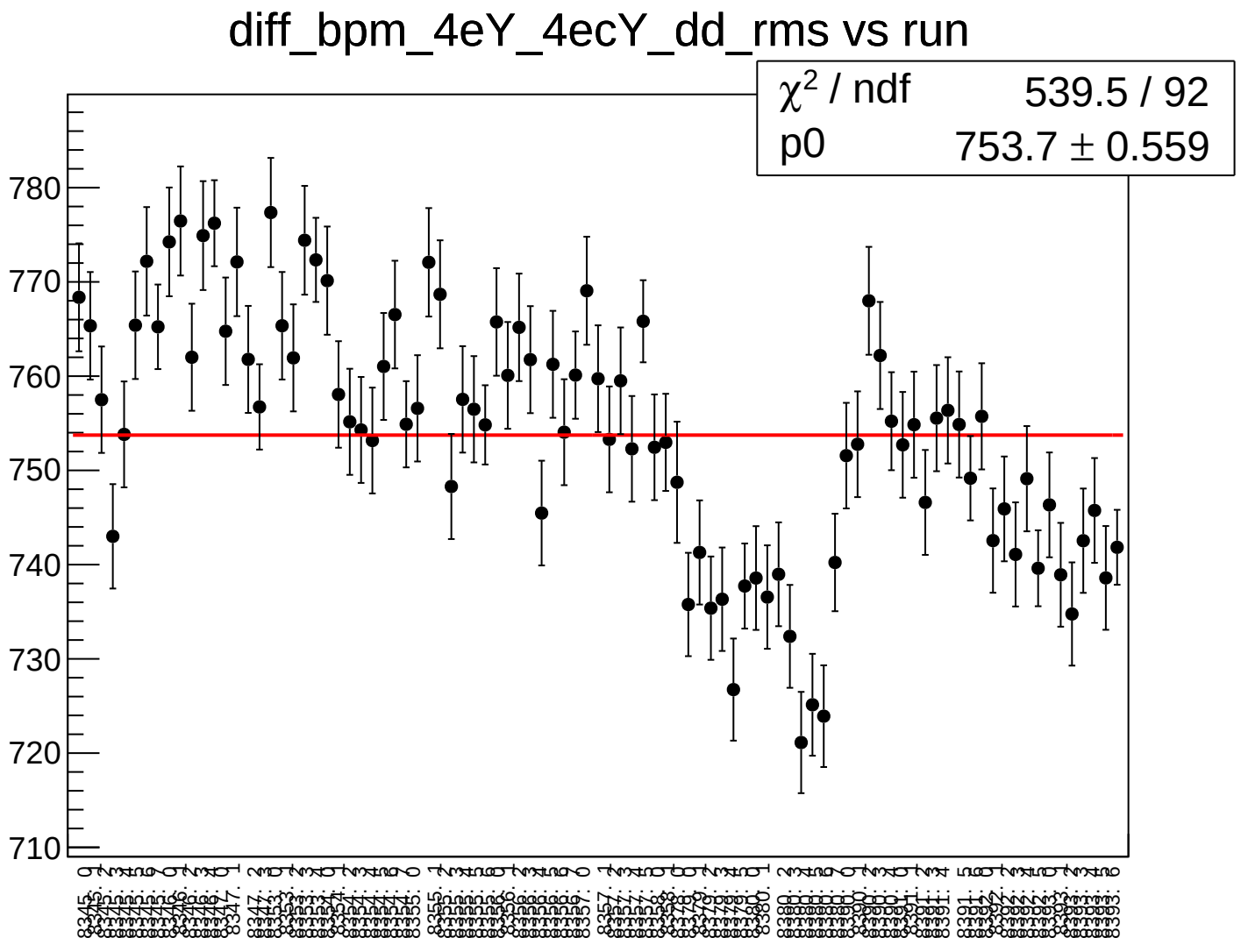

diff_bpm_4eY_4ecY_avg_mean vs run
χ^2 / ndf 99.12 / 92
p0 6.864 ± 5.613
200
100
0
−100
−200
pull
Entries 93
Mean −1.679e+04
Std Dev 0
2
1
0
−1
−2
−3

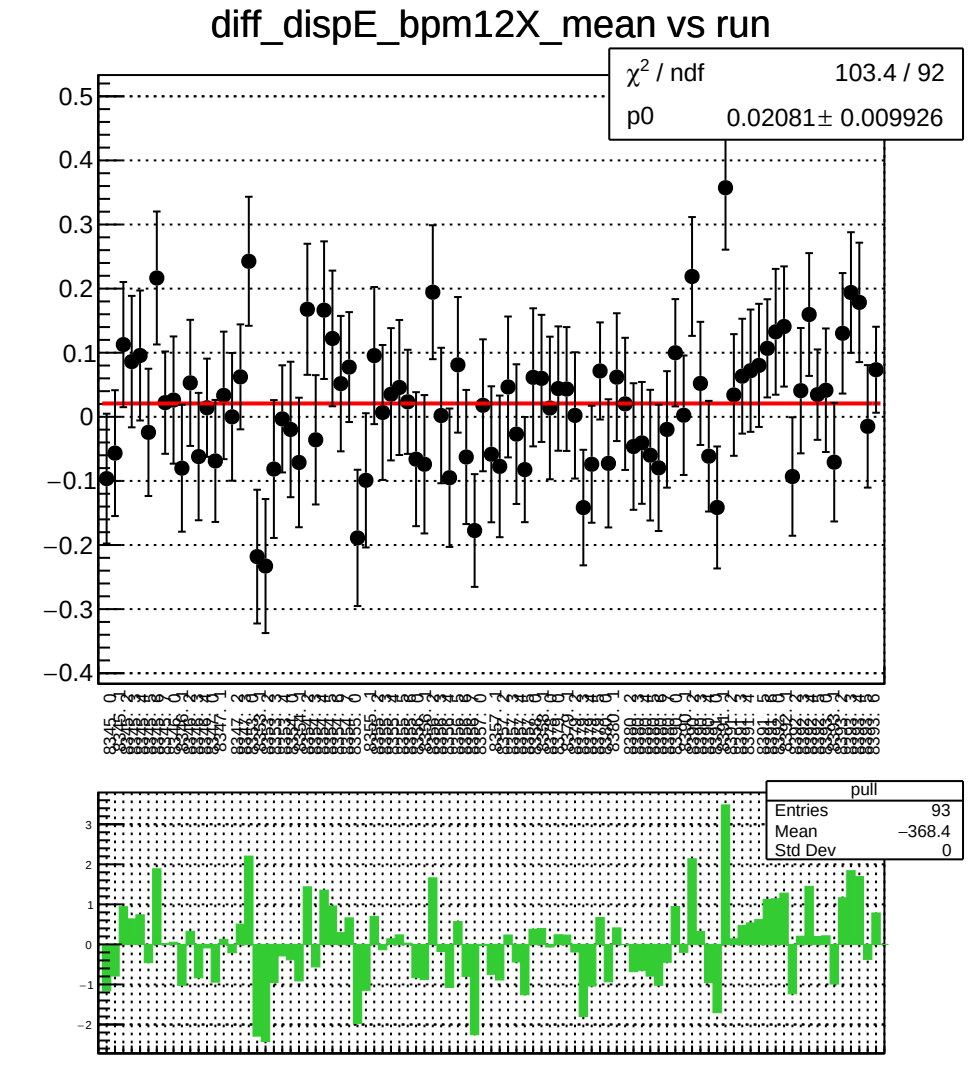

pull1D
Entries 93
Mean −0.0001137
Std Dev 1.032
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

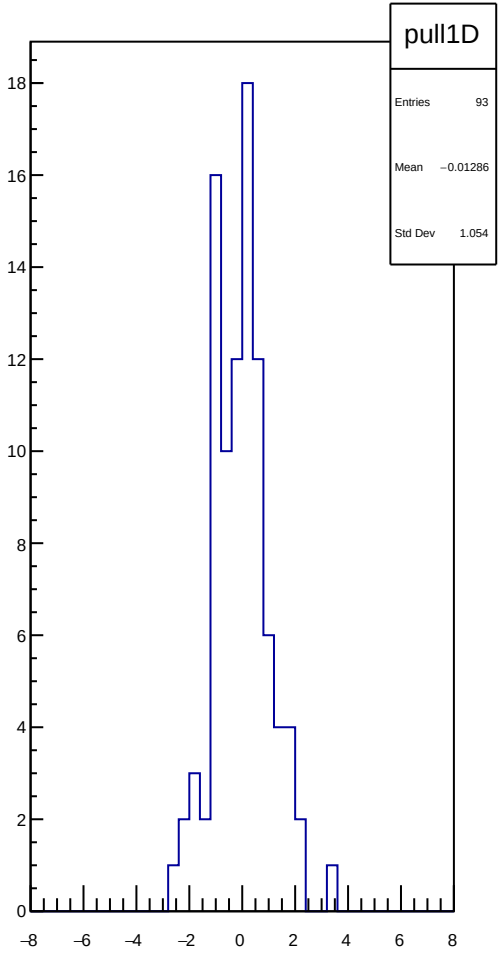

diff_bpm_4eY_4ecY_avg_rms vs run
χ² / ndf 9.18e+04 / 92
p0 5216 ± 3.969
7000
6500
6000
5500
5000
4500
4000
3500
3000

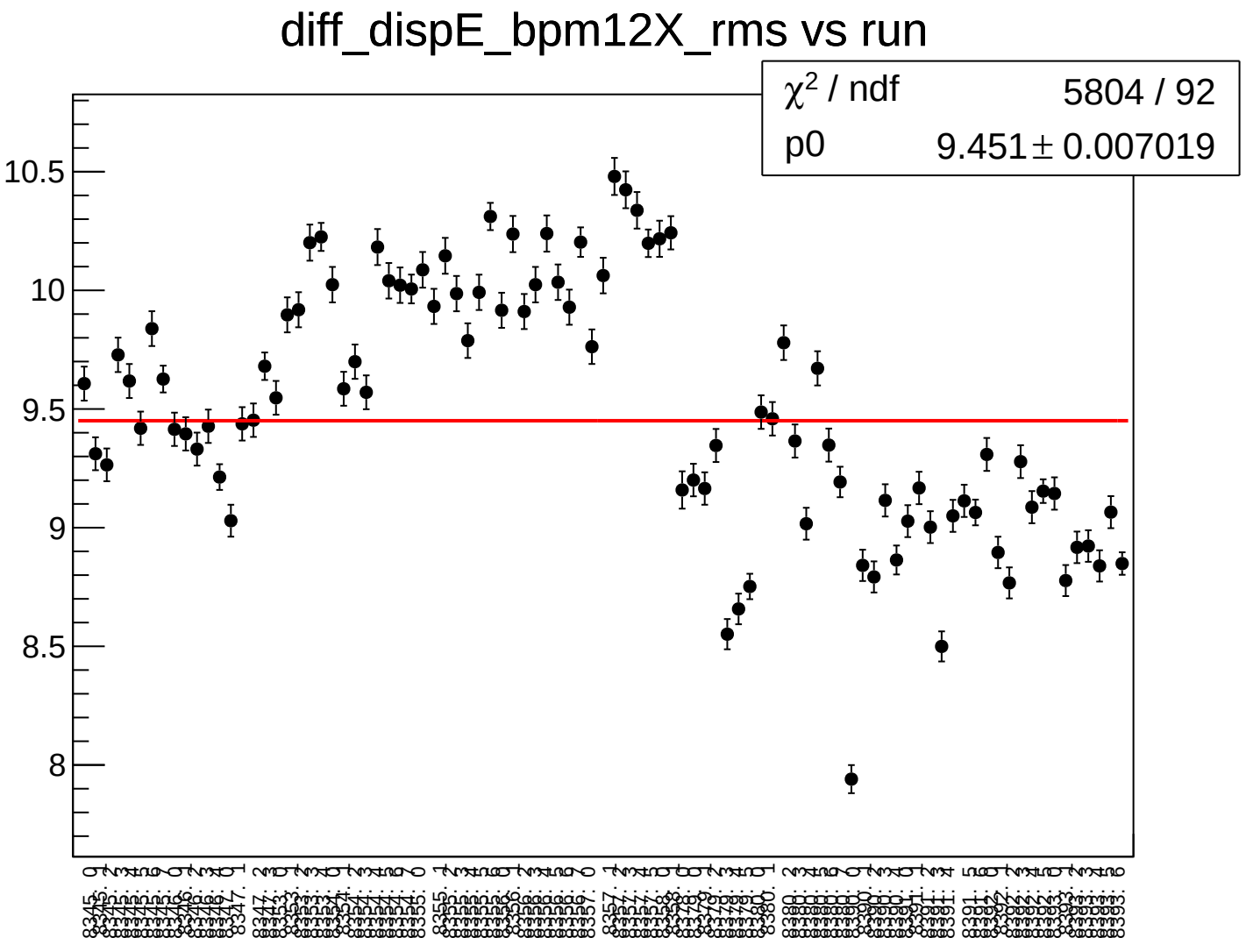

diff_bpm_4eY_4ecY_dd_mean vs run
χ² / ndf 85.34 / 92
p0 0.06929 ± 0.7905
pull
Entries 93
Mean 204.3
Std Dev 0

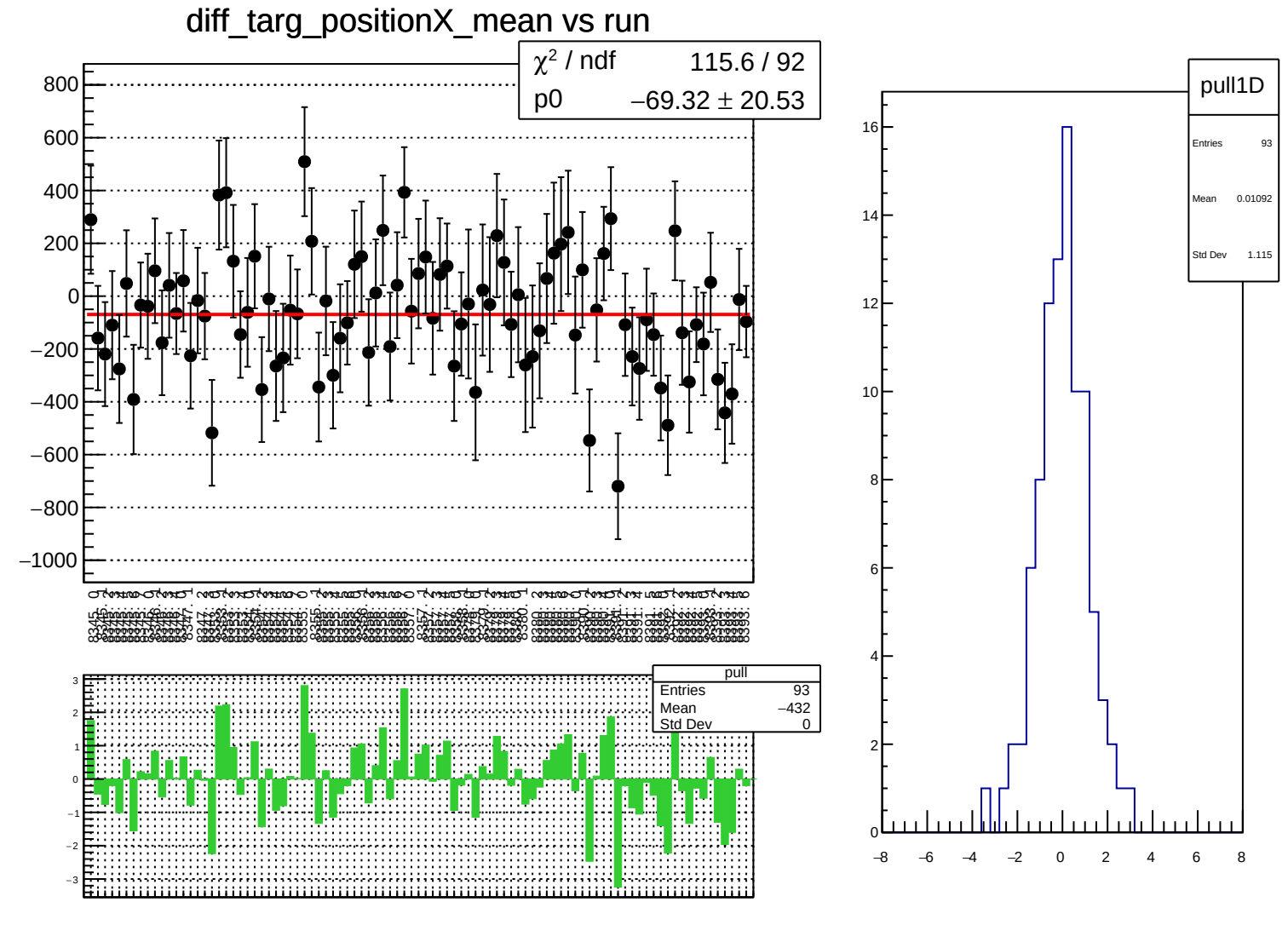

pull1D
Entries 93
Mean 0.01083
Std Dev 0.9579

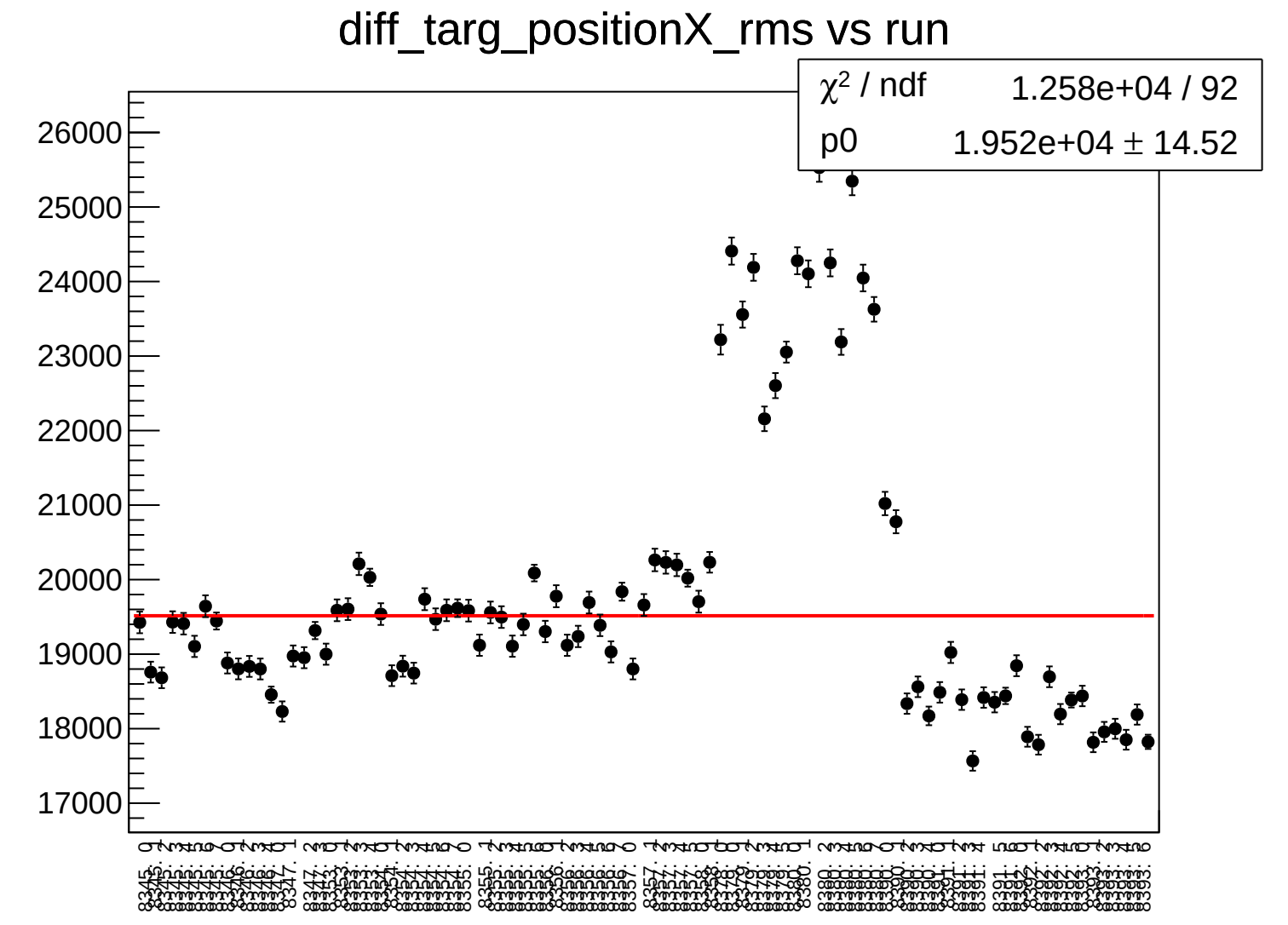

diff_bpm_4eY_4ecY_dd_rms vs run
χ² / ndf 539.5 / 92
p0 753.7 ± 0.559
780
770
760
750
740
730
720
710

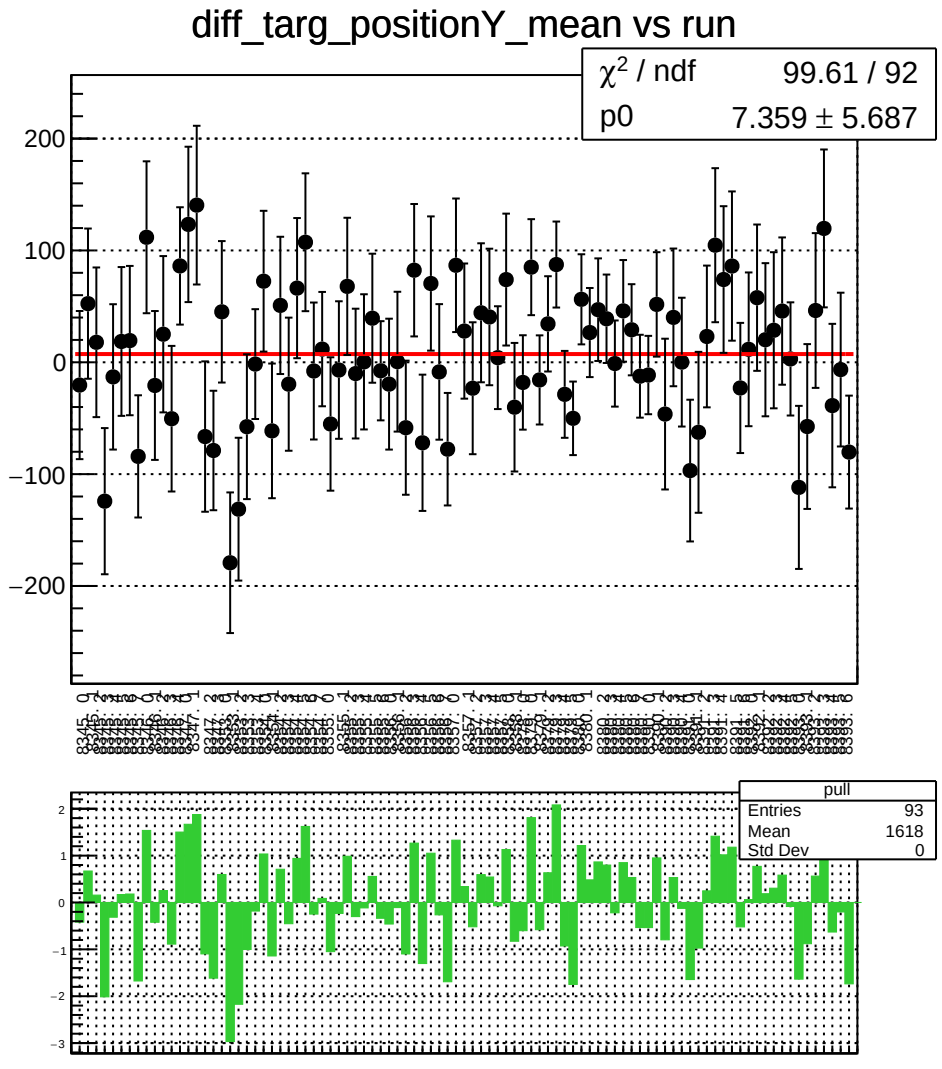

diff_dispE_bpm12X_mean vs run
χ² / ndf 103.4 / 92
p0 0.02081± 0.009926
pull
Entries 93
Mean −368.4
Std Dev 0

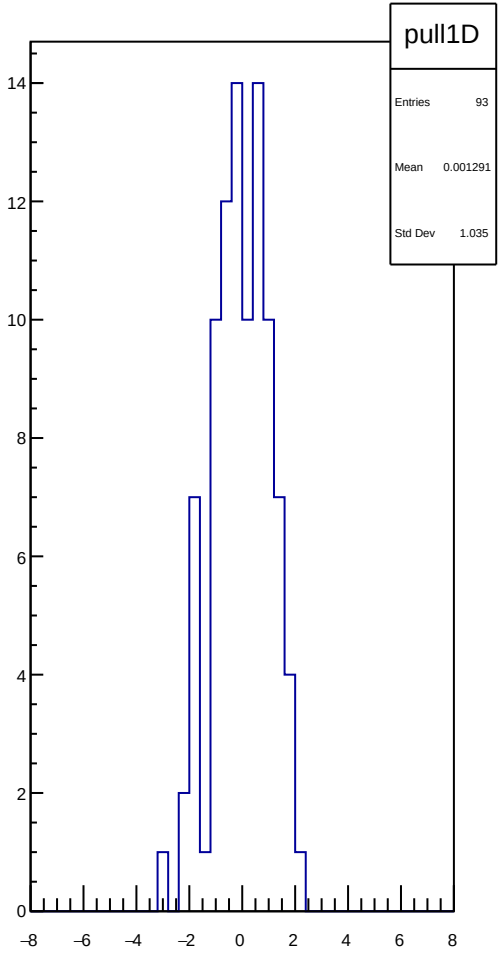

pull1D
Entries 93
Mean −0.01286
Std Dev 1.054

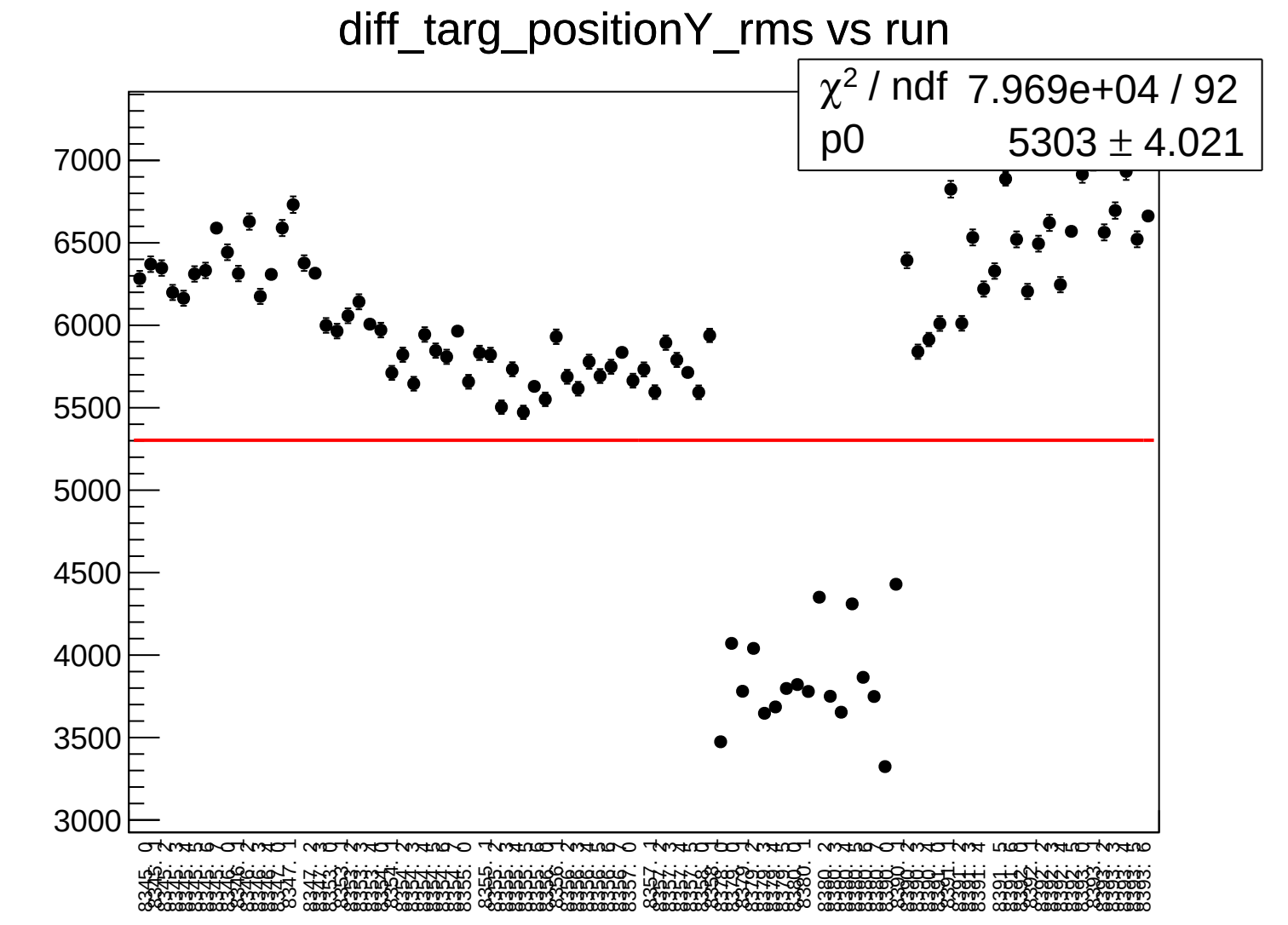

diff_dispE_bpm12X_rms vs run
χ^2 / ndf 5804 / 92
p0 9.451 ± 0.007019
10.5
10
9.5
9
8.5
8

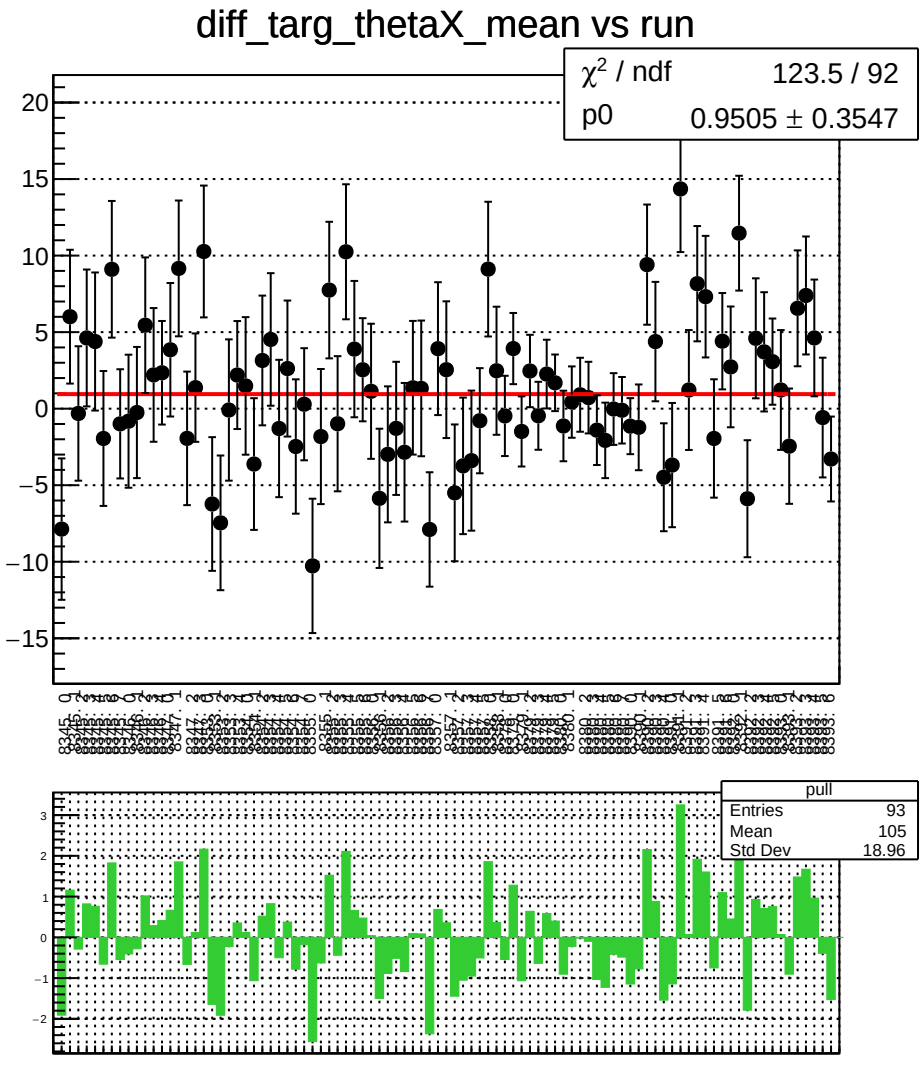

diff_targ_positionX_mean vs run
χ² / ndf 115.6 / 92
p0 −69.32 ± 20.53
pull
Entries 93
Mean −432
Std Dev 0
pull1D
Entries 93
Mean 0.01092
Std Dev 1.115

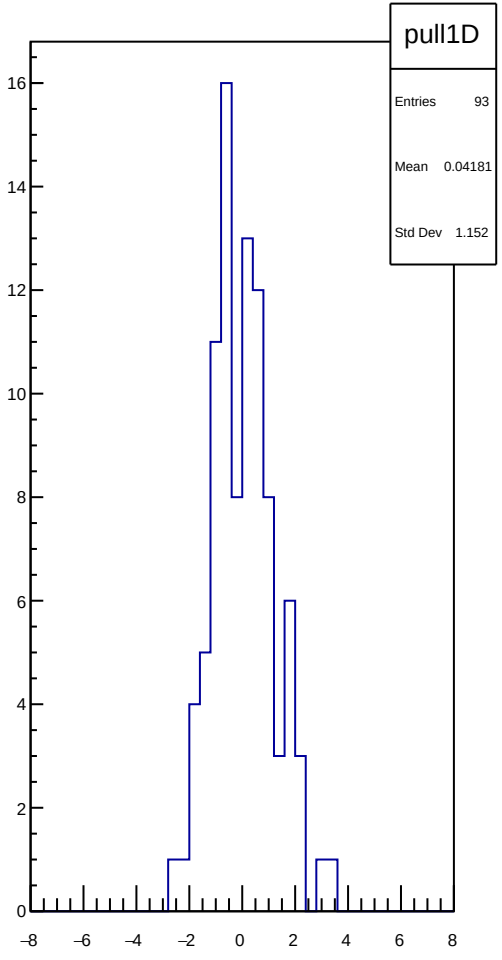

diff_targ_positionX_rms vs run
χ² / ndf 1.258e+04 / 92
p0 1.952e+04 ± 14.52
26000
25000
24000
23000
22000
21000
20000
19000
18000
17000

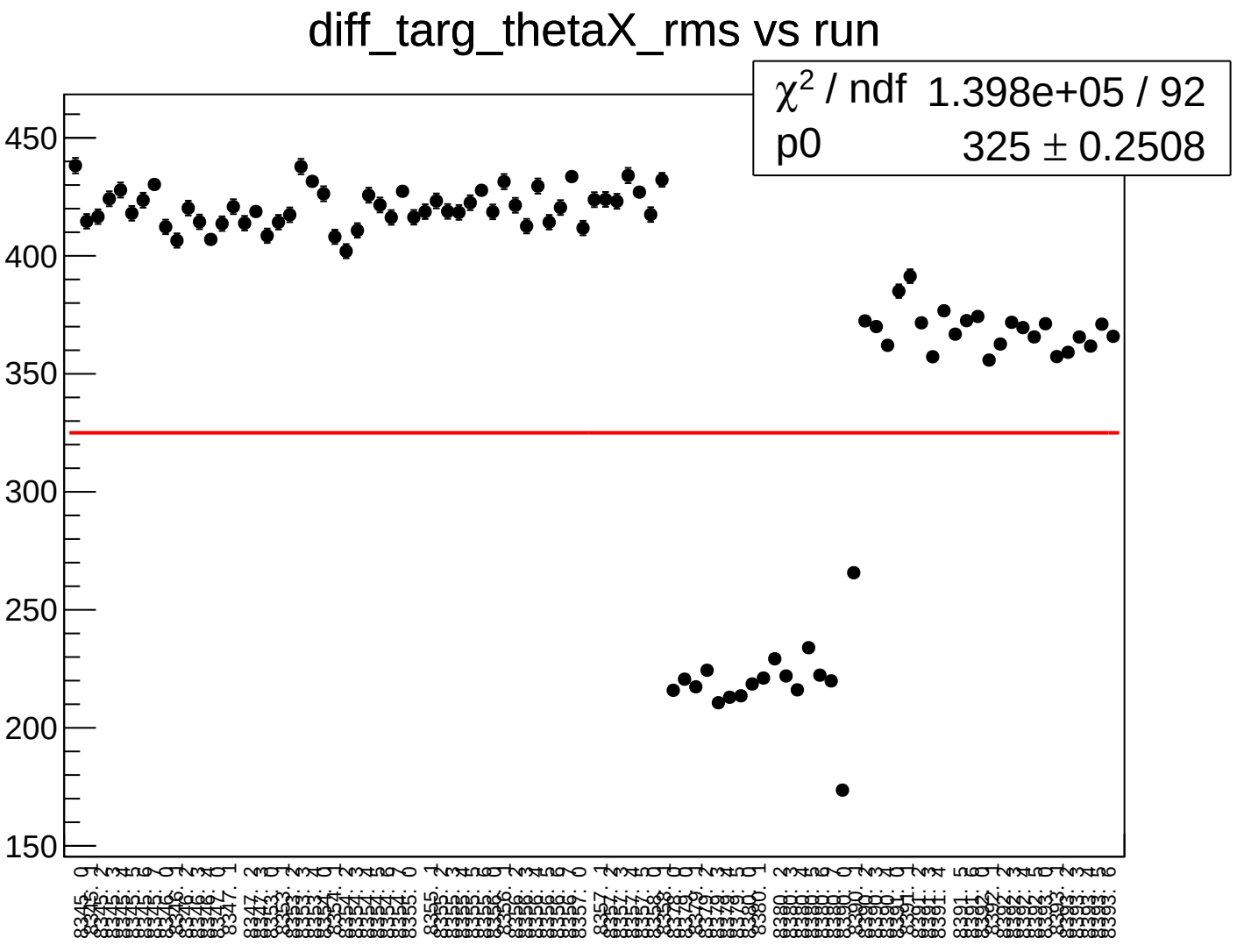

diff_targ_positionY_mean vs run
χ² / ndf 99.61 / 92
p0 7.359 ± 5.687
200
100
0
−100
−200
pull
Entries 93
Mean 1618
Std Dev 0
2
1
0
−1
−2
−3

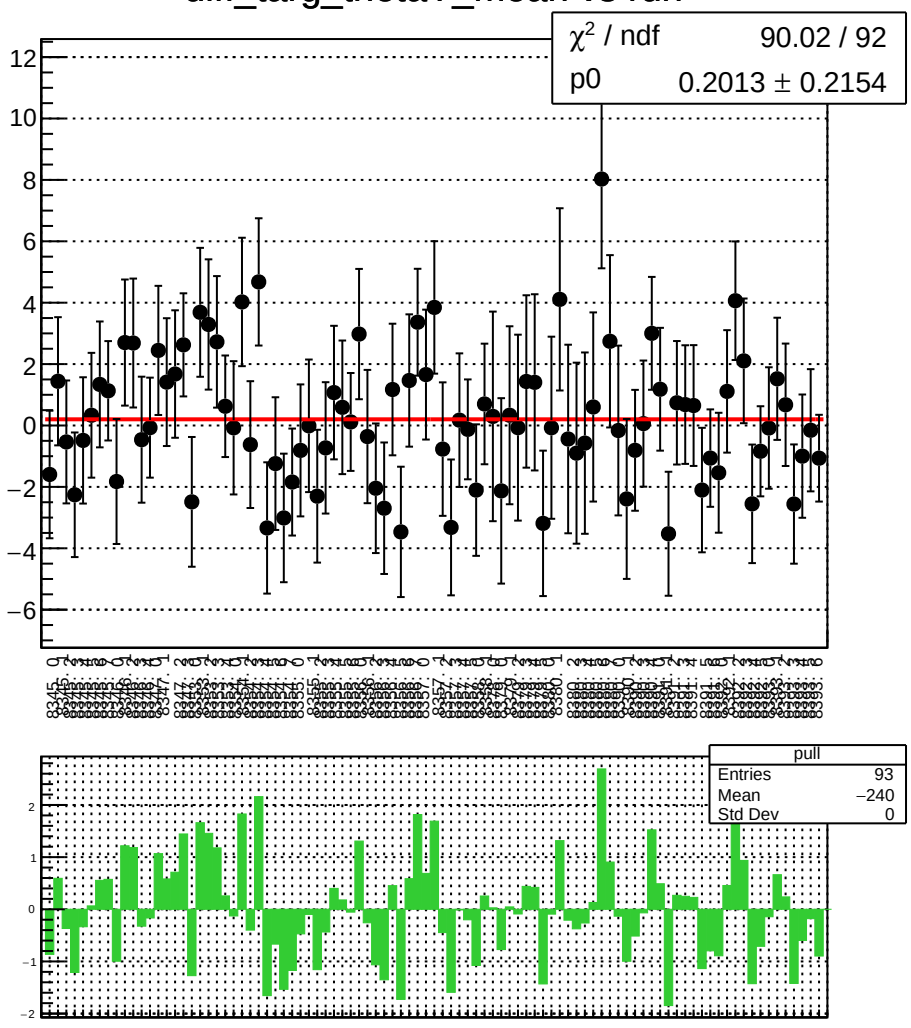

pull1D
Entries 93
Mean 0.001291
Std Dev 1.035
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

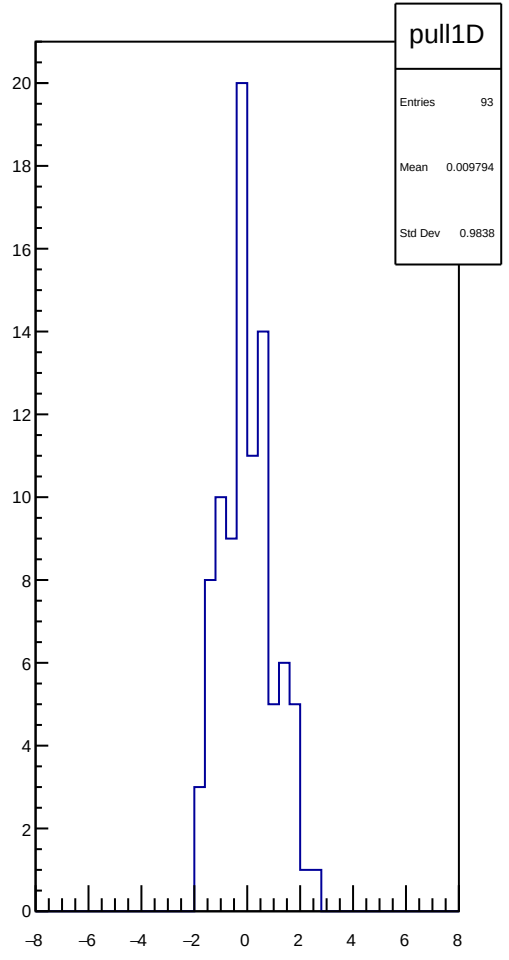

diff_targ_positionY_rms vs run
χ² / ndf 7.969e+04 / 92
p0 5303 ± 4.021
7000
6500
6000
5500
5000
4500
4000
3500
3000

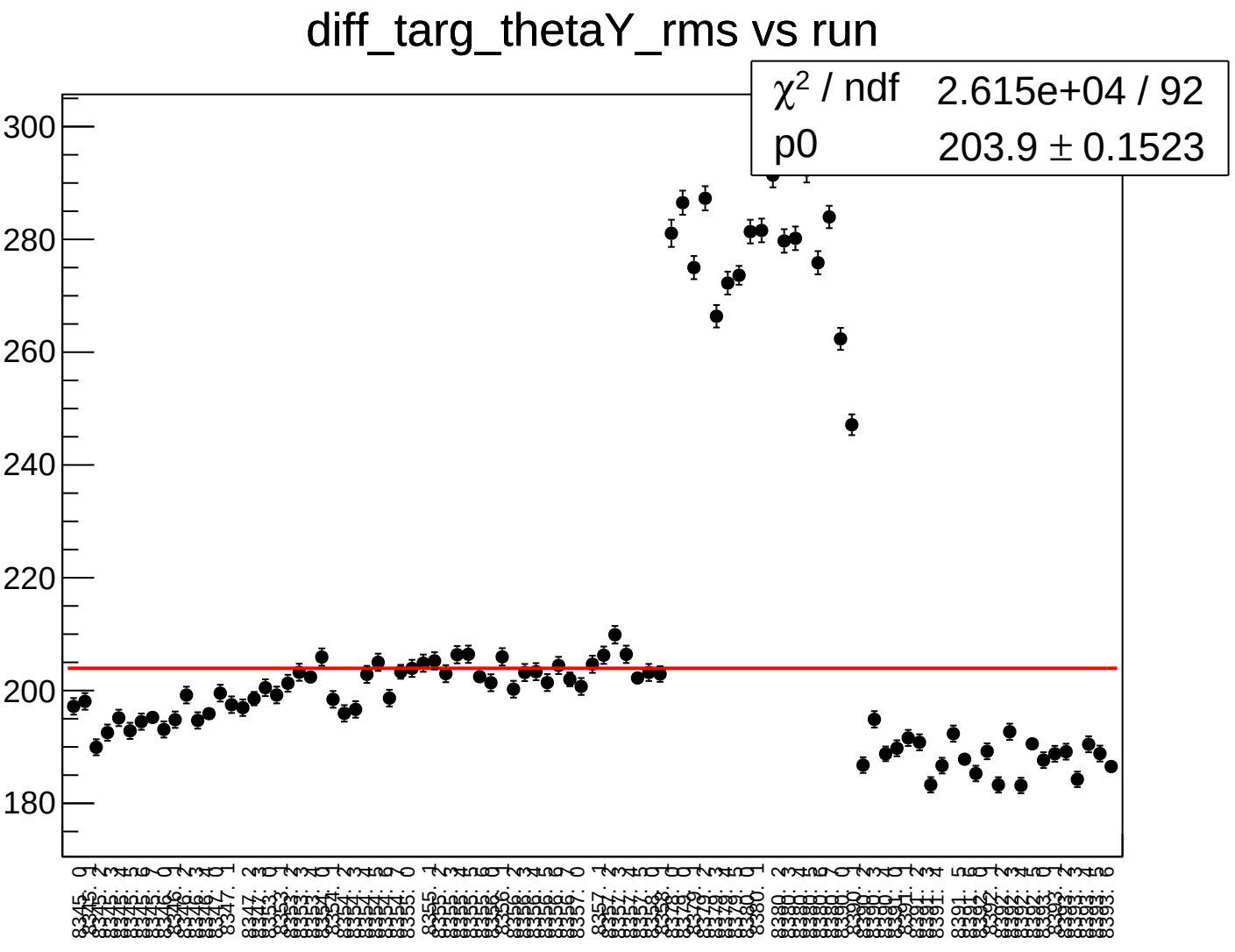

diff_targ_thetaX_mean vs run
χ² / ndf 123.5 / 92
p0 0.9505 ± 0.3547
pull
Entries 93
Mean 105
Std Dev 18.96

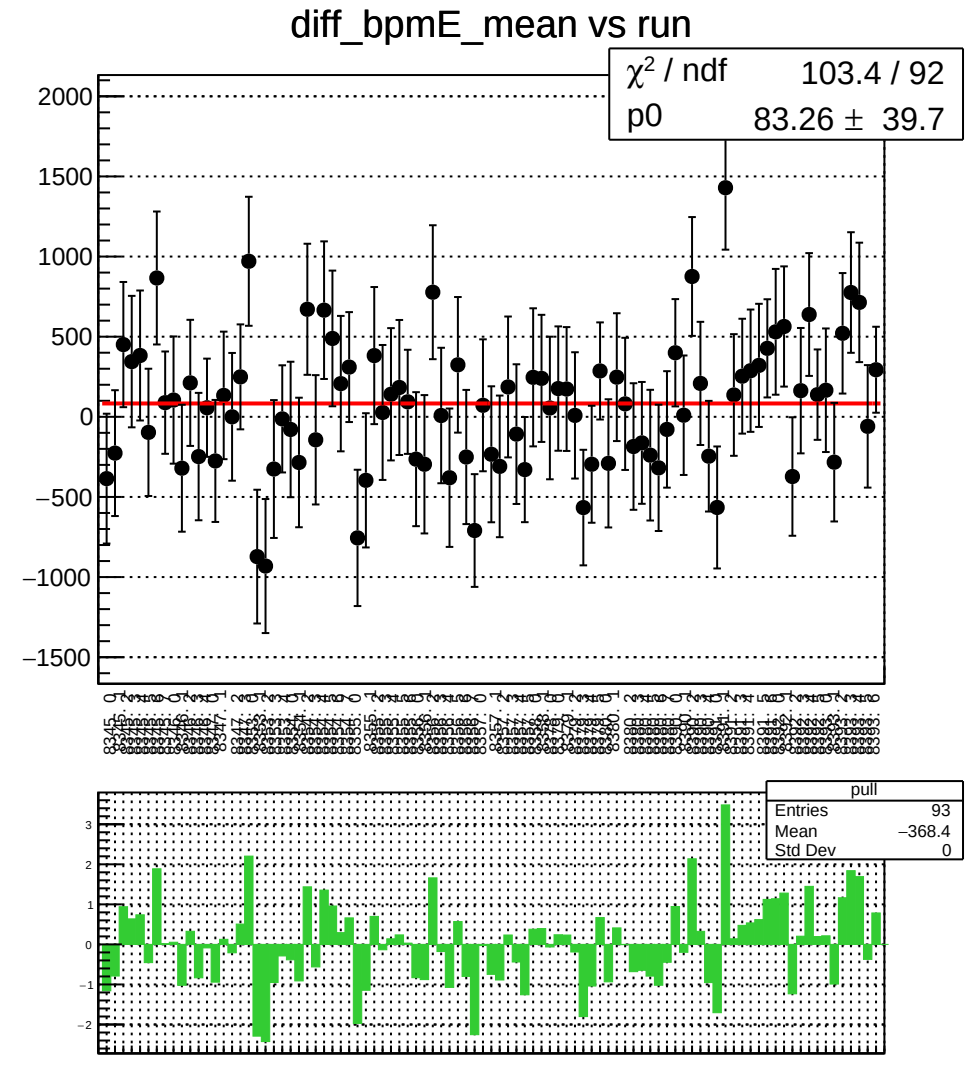

pull1D
Entries 93
Mean 0.04181
Std Dev 1.152

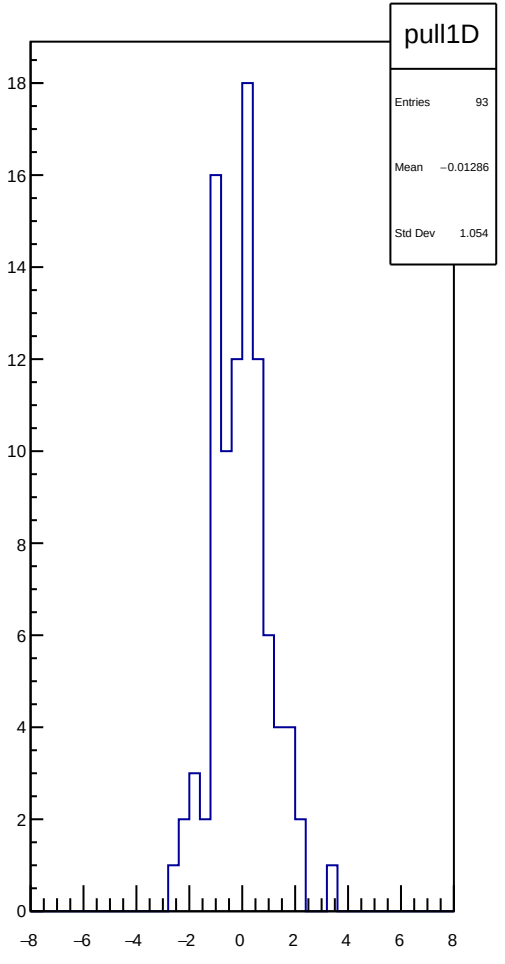

diff_targ_thetaX_rms vs run
χ^2 / ndf 1.398e+05 / 92
p0 325 ± 0.2508
450
400
350
300
250
200
150

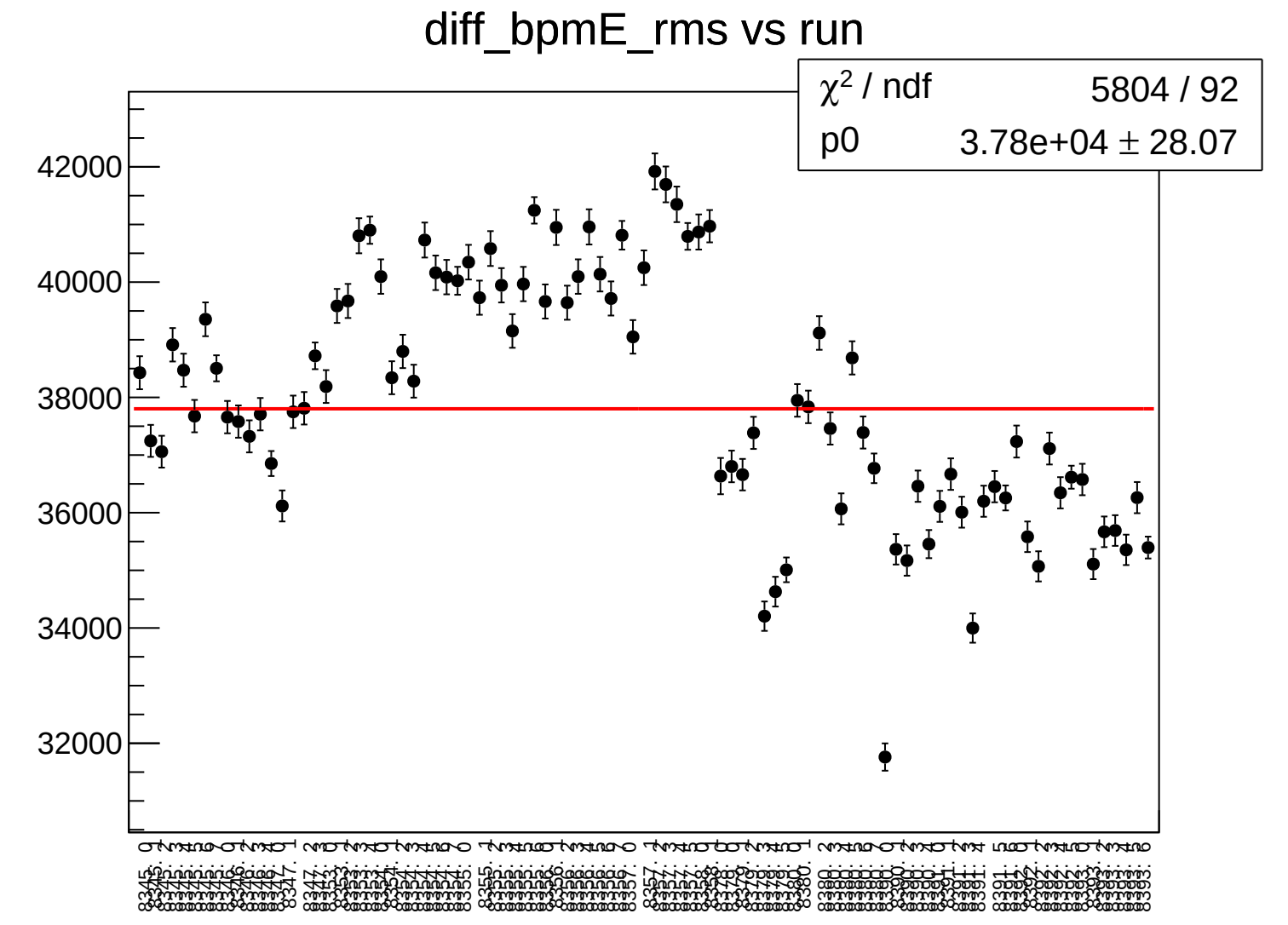

diff_targ_thetaY_mean vs run
χ² / ndf 90.02 / 92
p0 0.2013 ± 0.2154
pull
Entries 93
Mean −240
Std Dev 0

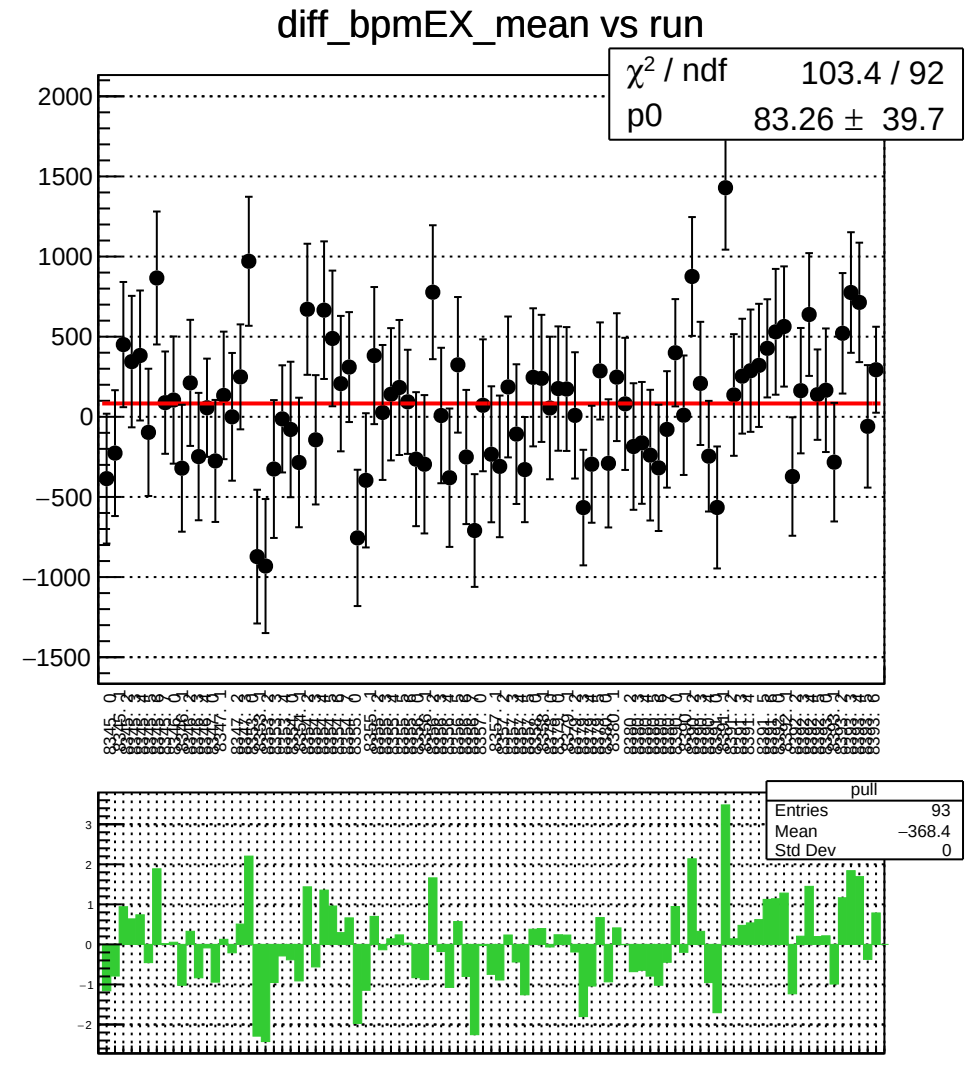

pull1D
Entries 93
Mean 0.009794
Std Dev 0.9838

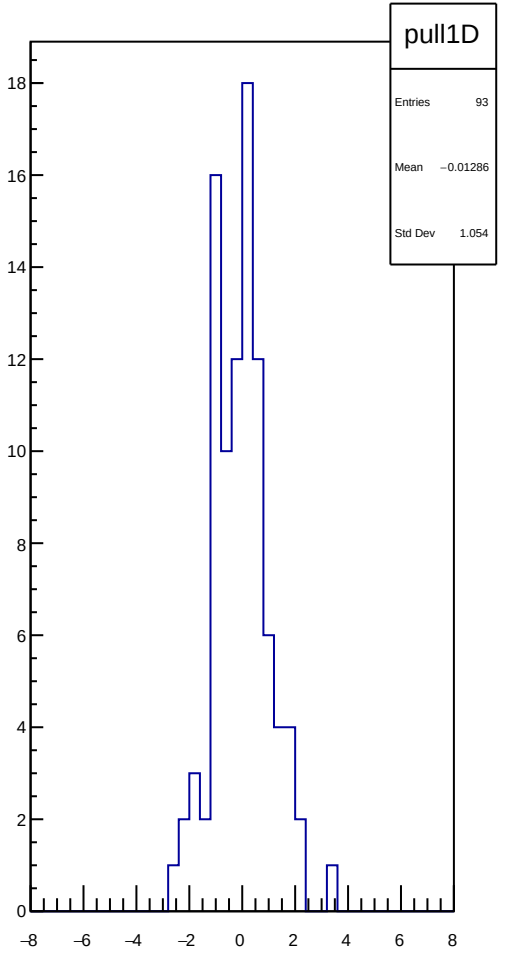

diff_targ_thetaY_rms vs run
χ² / ndf 2.615e+04 / 92
p0 203.9 ± 0.1523
300
280
260
240
220
200
180

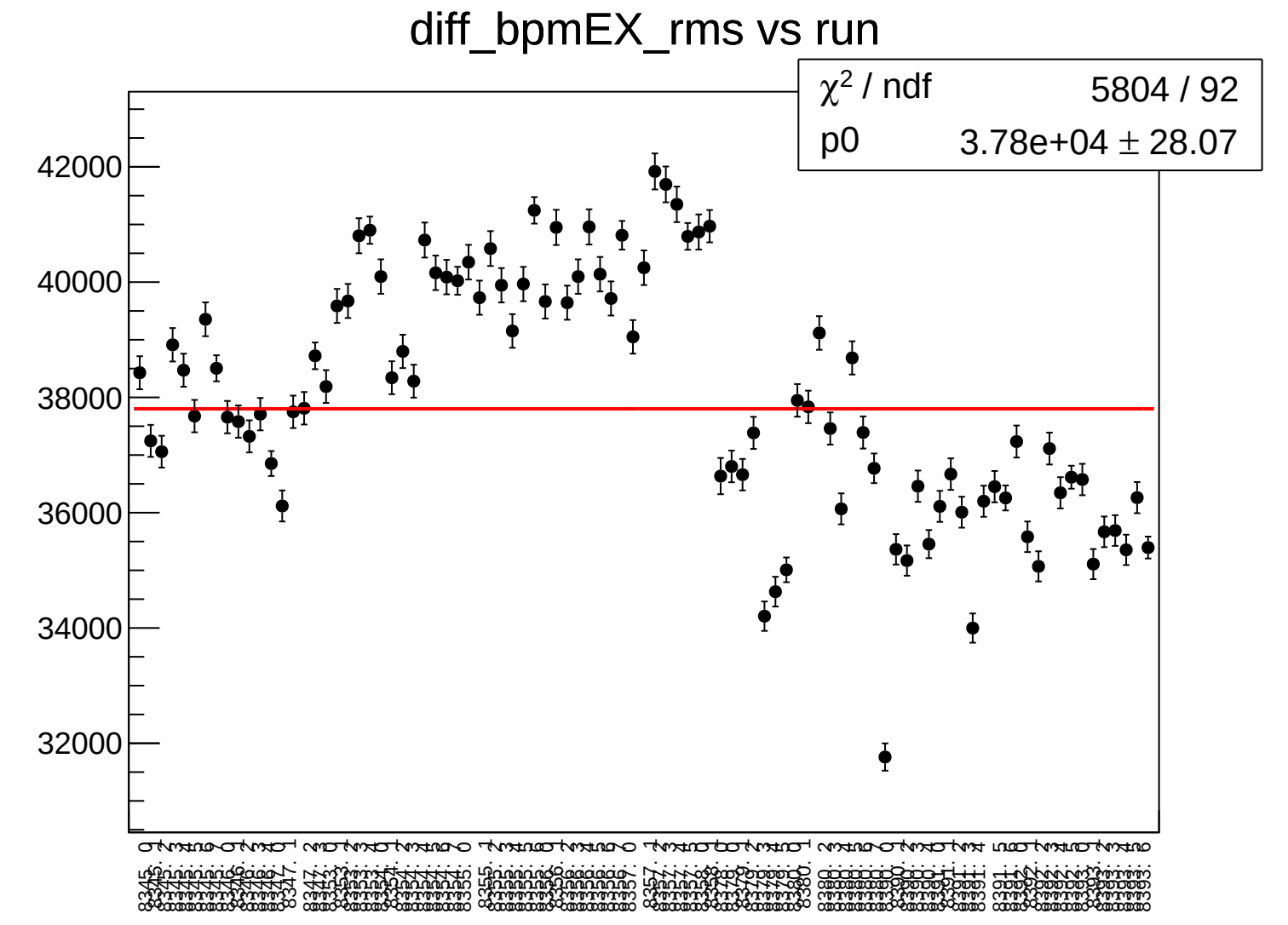

diff_bpmE_mean vs run
χ² / ndf 103.4 / 92
p0 83.26 ± 39.7
pull
Entries 93
Mean −368.4
Std Dev 0

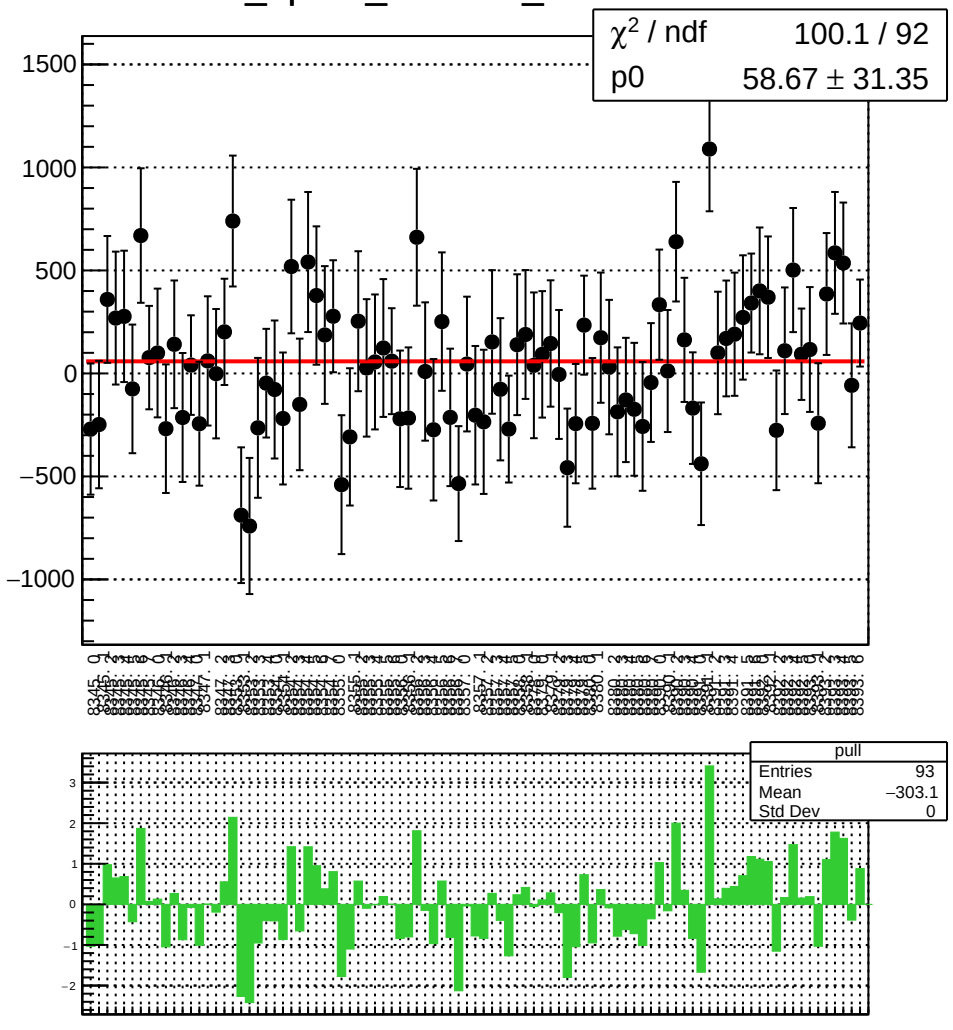

pull1D
Entries 93
Mean −0.01286
Std Dev 1.054

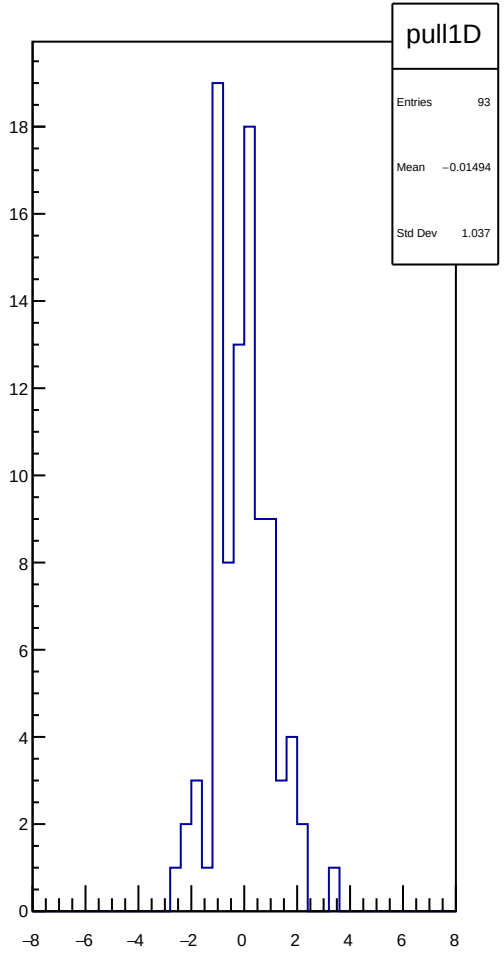

diff_bpmE_rms vs run
χ² / ndf 5804 / 92
p0 3.78e+04 ± 28.07
42000
40000
38000
36000
34000
32000

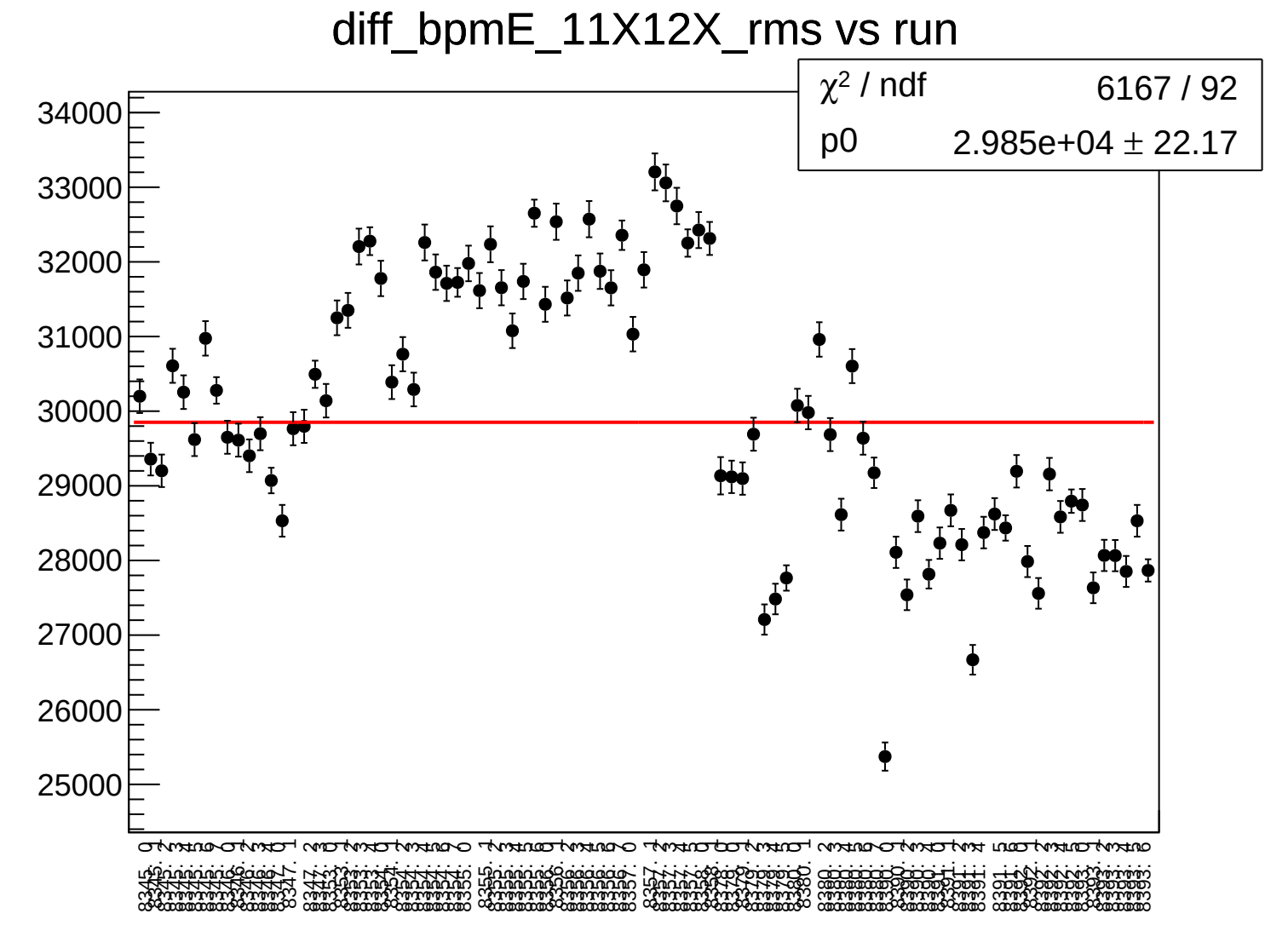

diff_bpmEX_mean vs run
χ² / ndf 103.4 / 92
p0 83.26 ± 39.7
pull
Entries 93
Mean −368.4
Std Dev 0

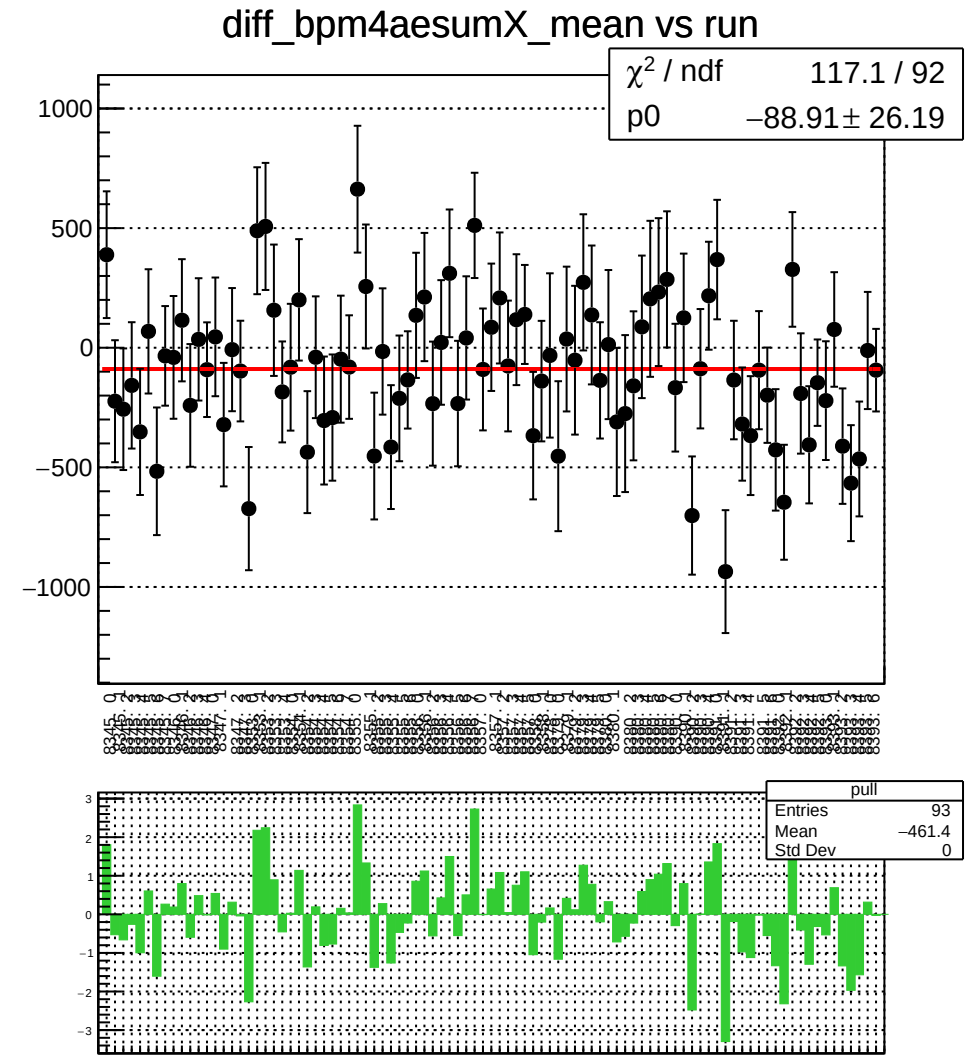

pull1D
Entries 93
Mean −0.01286
Std Dev 1.054

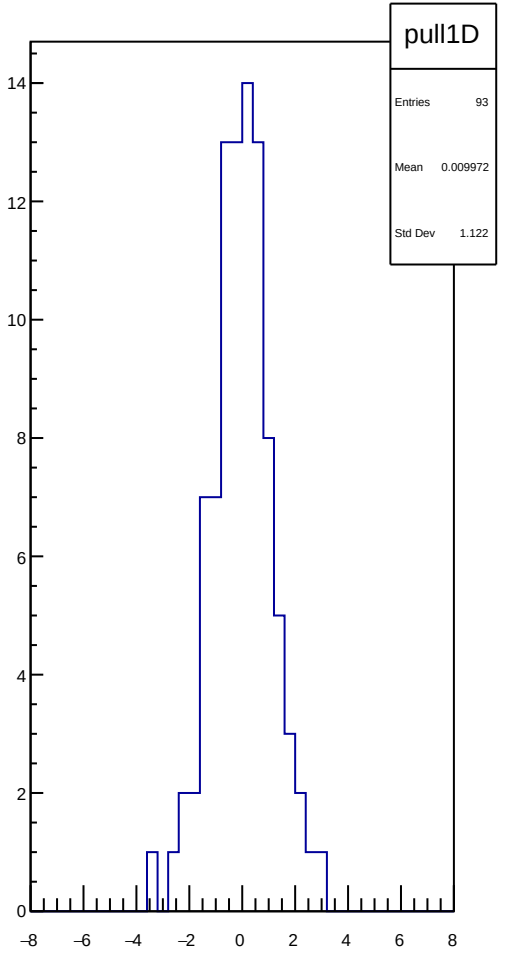

diff_bpmEX_rms vs run
χ² / ndf 5804 / 92
p0 3.78e+04 ± 28.07
42000
40000
38000
36000
34000
32000

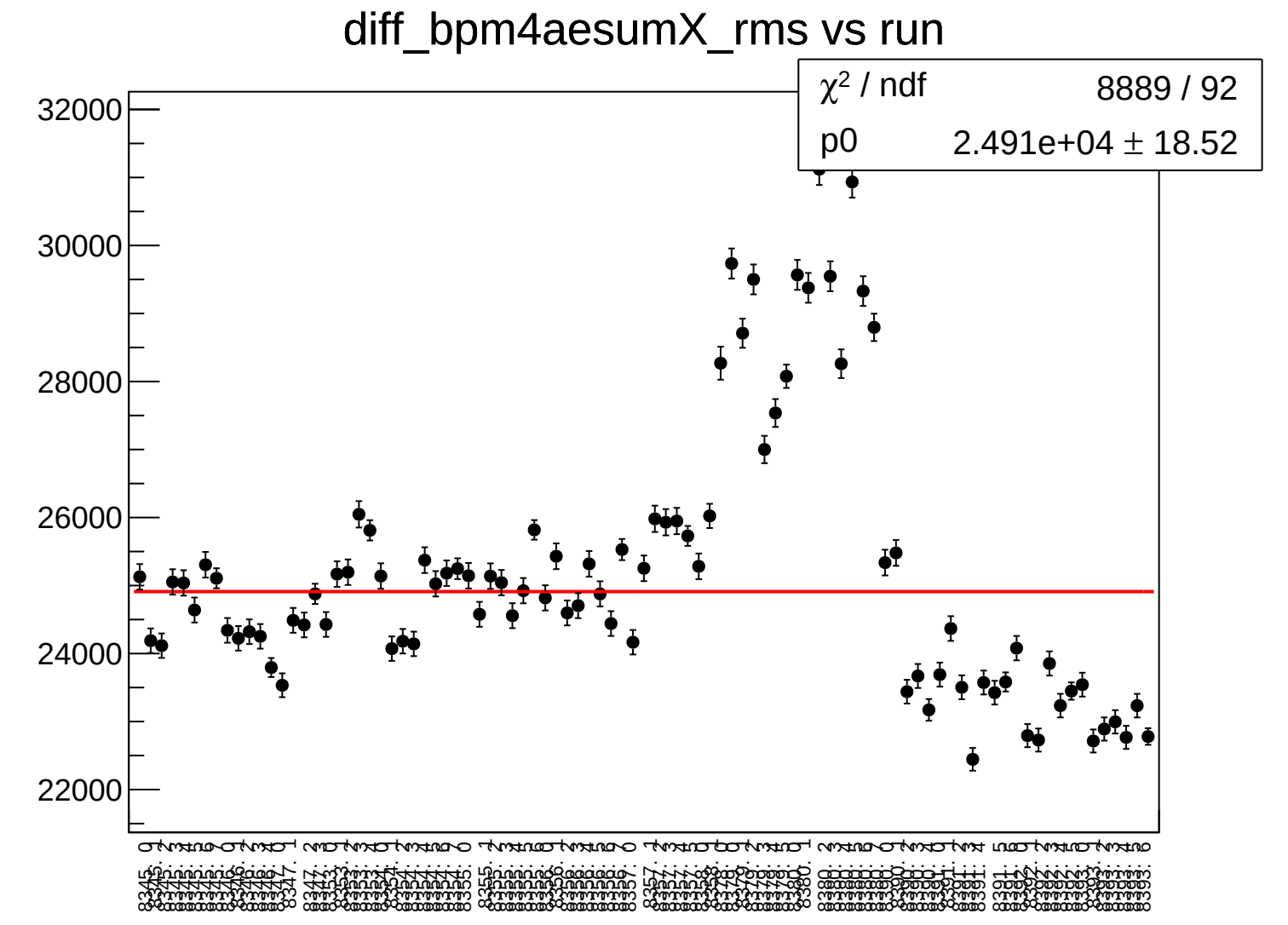

diff_bpmE_11X12X_mean vs run
χ^2 / ndf 100.1 / 92
p0 58.67 ± 31.35
1500
1000
500
0
−500
−1000
pull
Entries 93
Mean −303.1
Std Dev 0
3
2
1
0
−1
−2

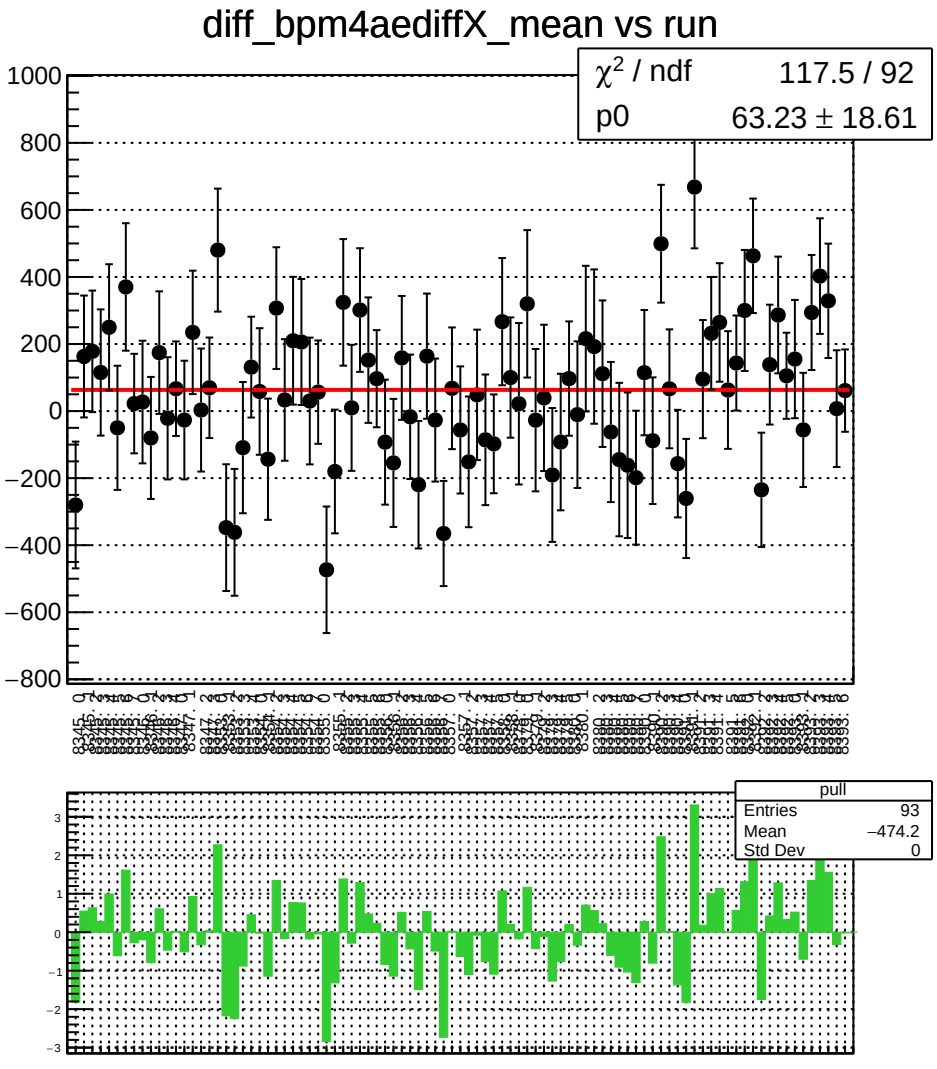

pull1D
Entries 93
Mean −0.01494
Std Dev 1.037
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

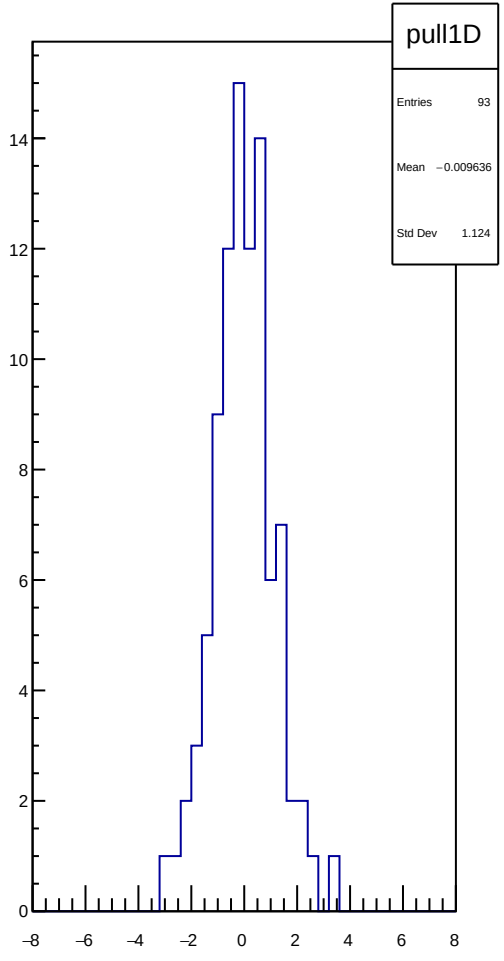

diff_bpmE_11X12X_rms vs run
χ² / ndf 6167 / 92
p0 2.985e+04 ± 22.17
34000
33000
32000
31000
30000
29000
28000
27000
26000
25000

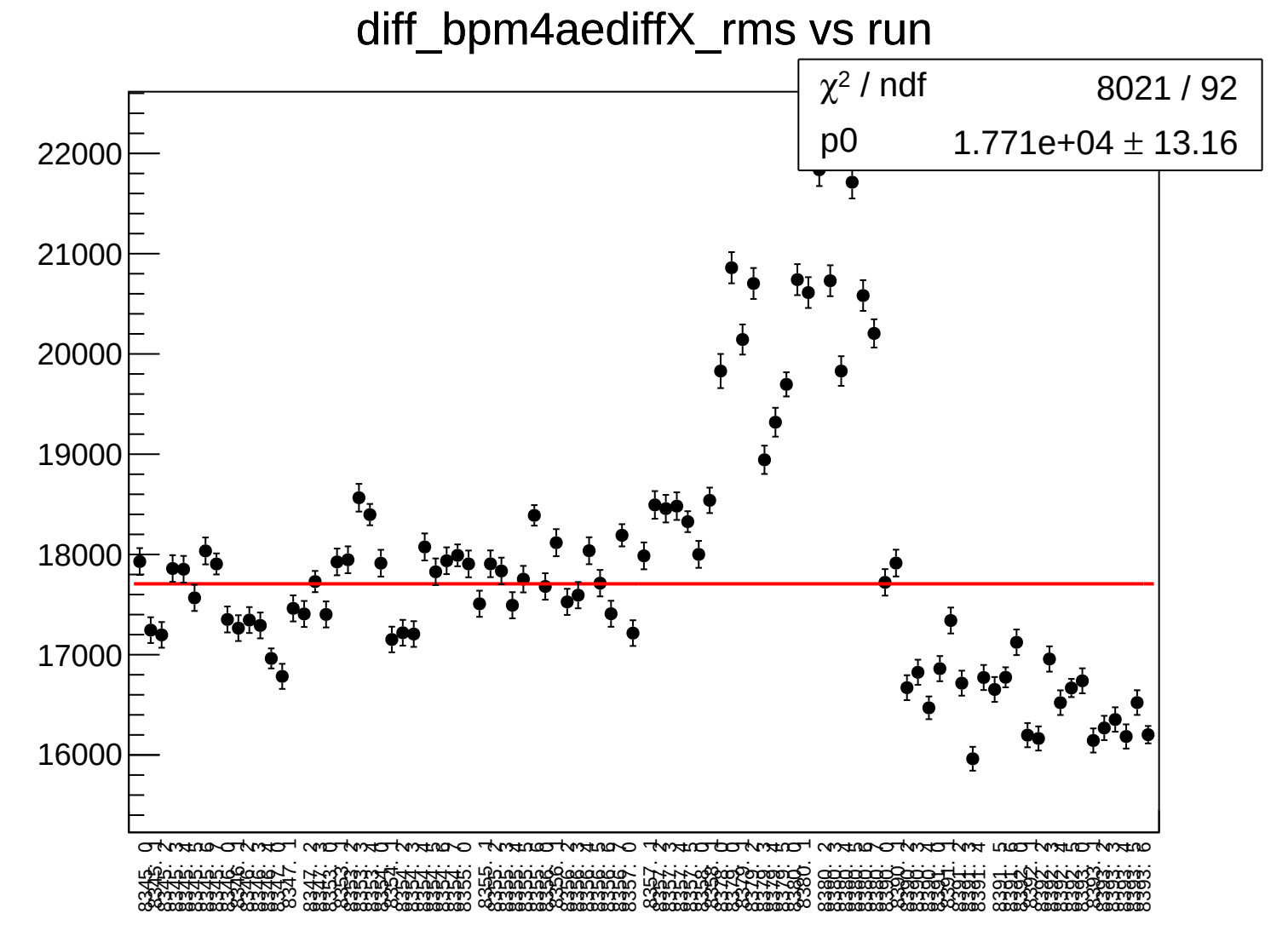

diff_bpm4aesumX_mean vs run
χ² / ndf 117.1 / 92
p0 −88.91 ± 26.19
1000
500
0
−500
−1000
pull
Entries 93
Mean −461.4
Std Dev 0
3
2
1
0
−1
−2
−3

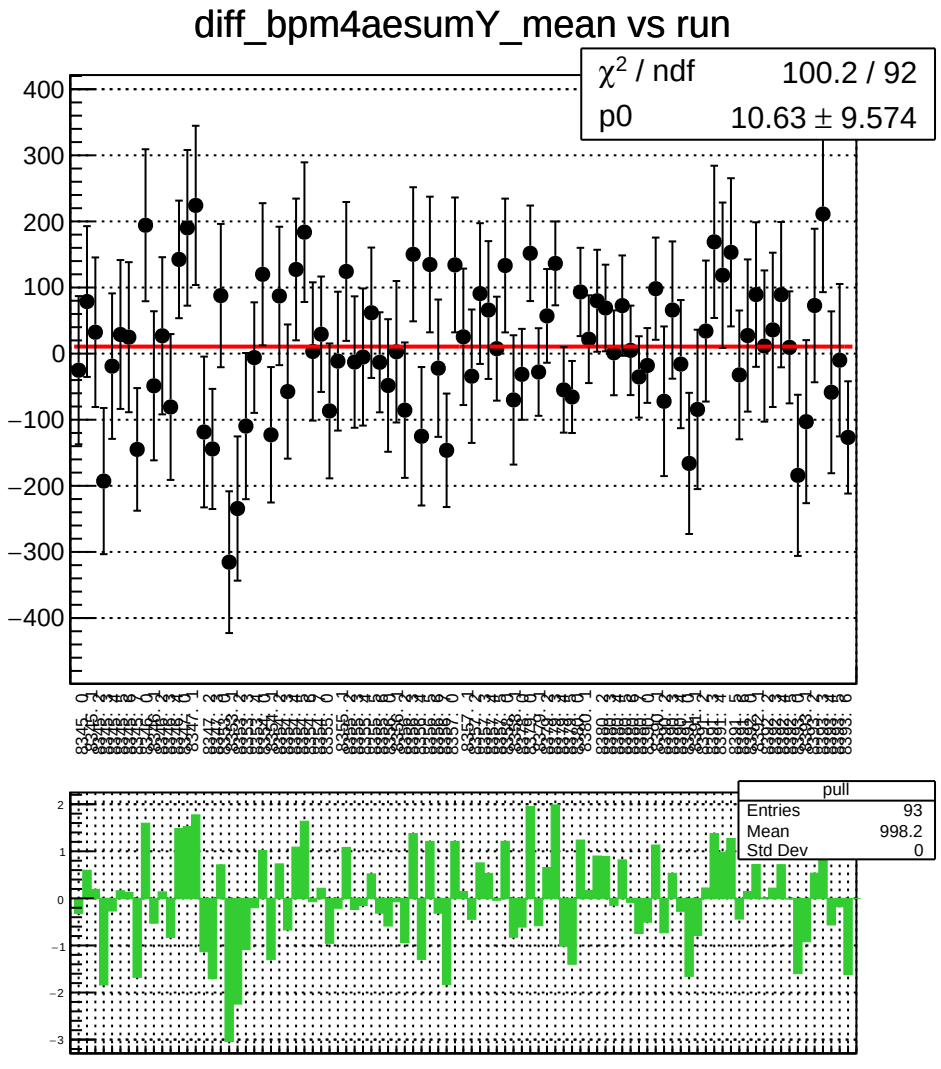

pull1D
Entries 93
Mean 0.009972
Std Dev 1.122
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

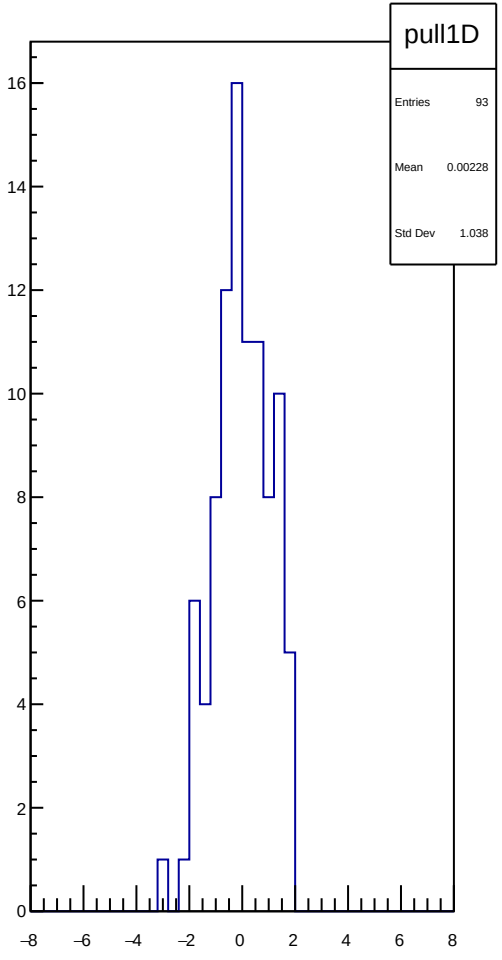

diff_bpm4aesumX_rms vs run
χ² / ndf 8889 / 92
p0 2.491e+04 ± 18.52
32000
30000
28000
26000
24000
22000

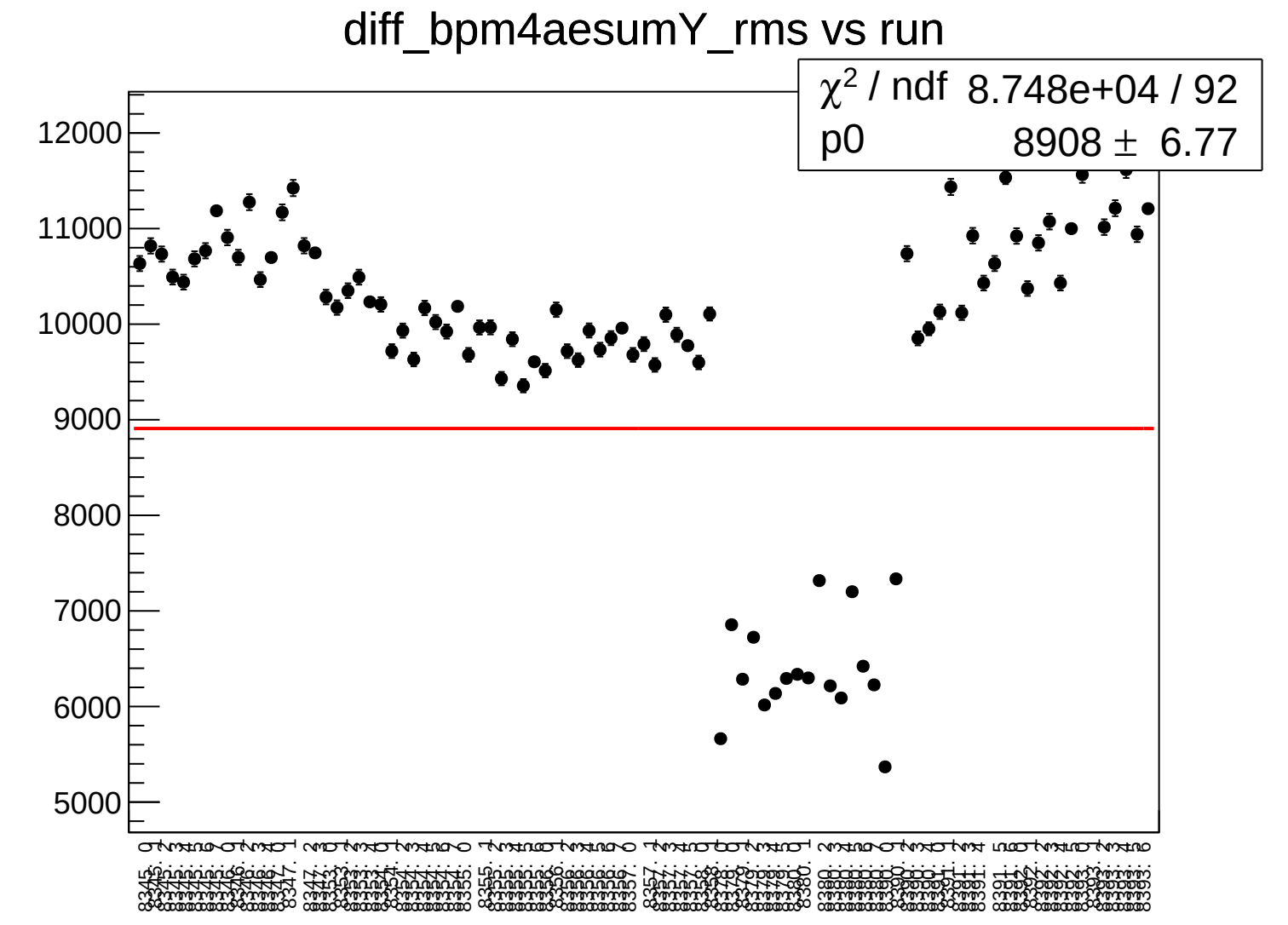

diff_bpm4aediffX_mean vs run
χ^2 / ndf 117.5 / 92
p0 63.23 ± 18.61
pull
Entries 93
Mean −474.2
Std Dev 0

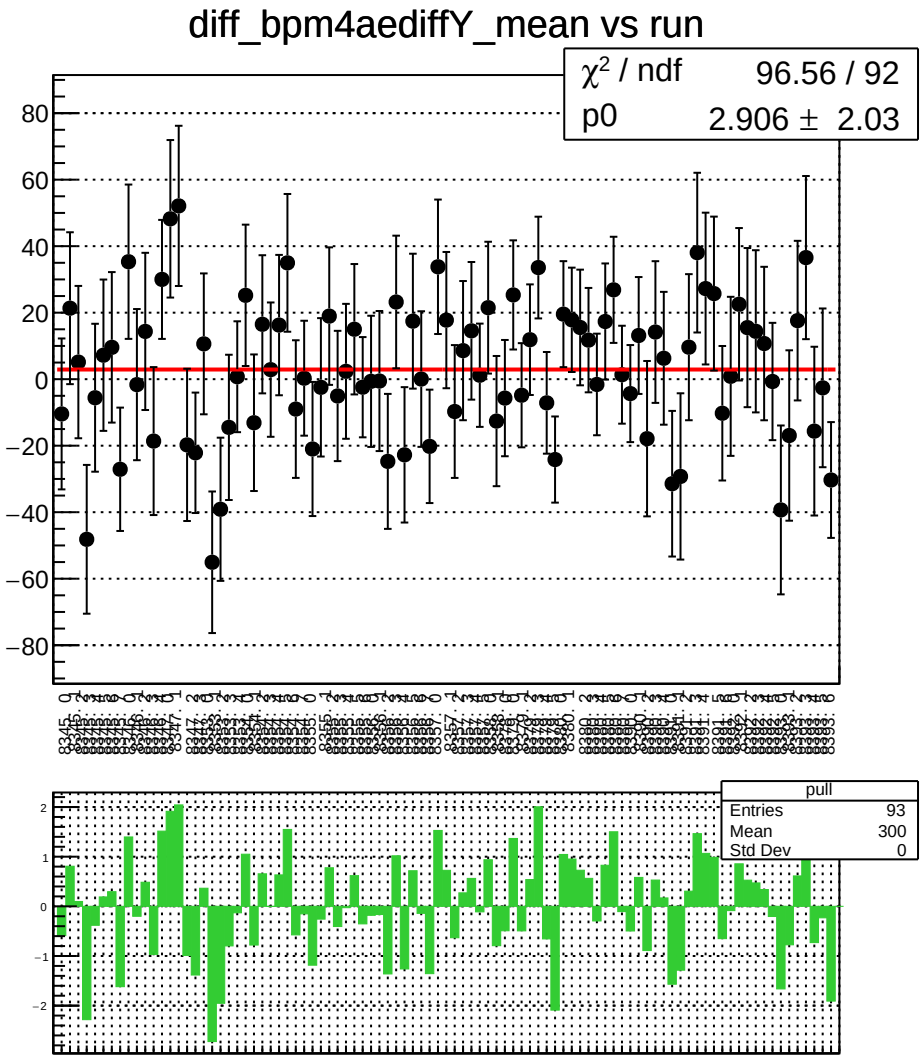

pull1D
Entries 93
Mean −0.009636
Std Dev 1.124

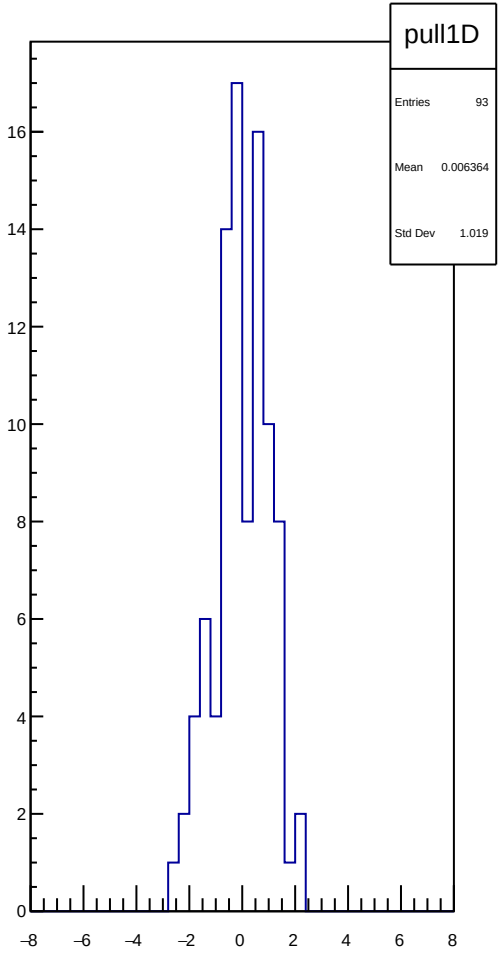

diff_bpm4aediffX_rms vs run
χ² / ndf 8021 / 92
p0 1.771e+04 ± 13.16
22000
21000
20000
19000
18000
17000
16000

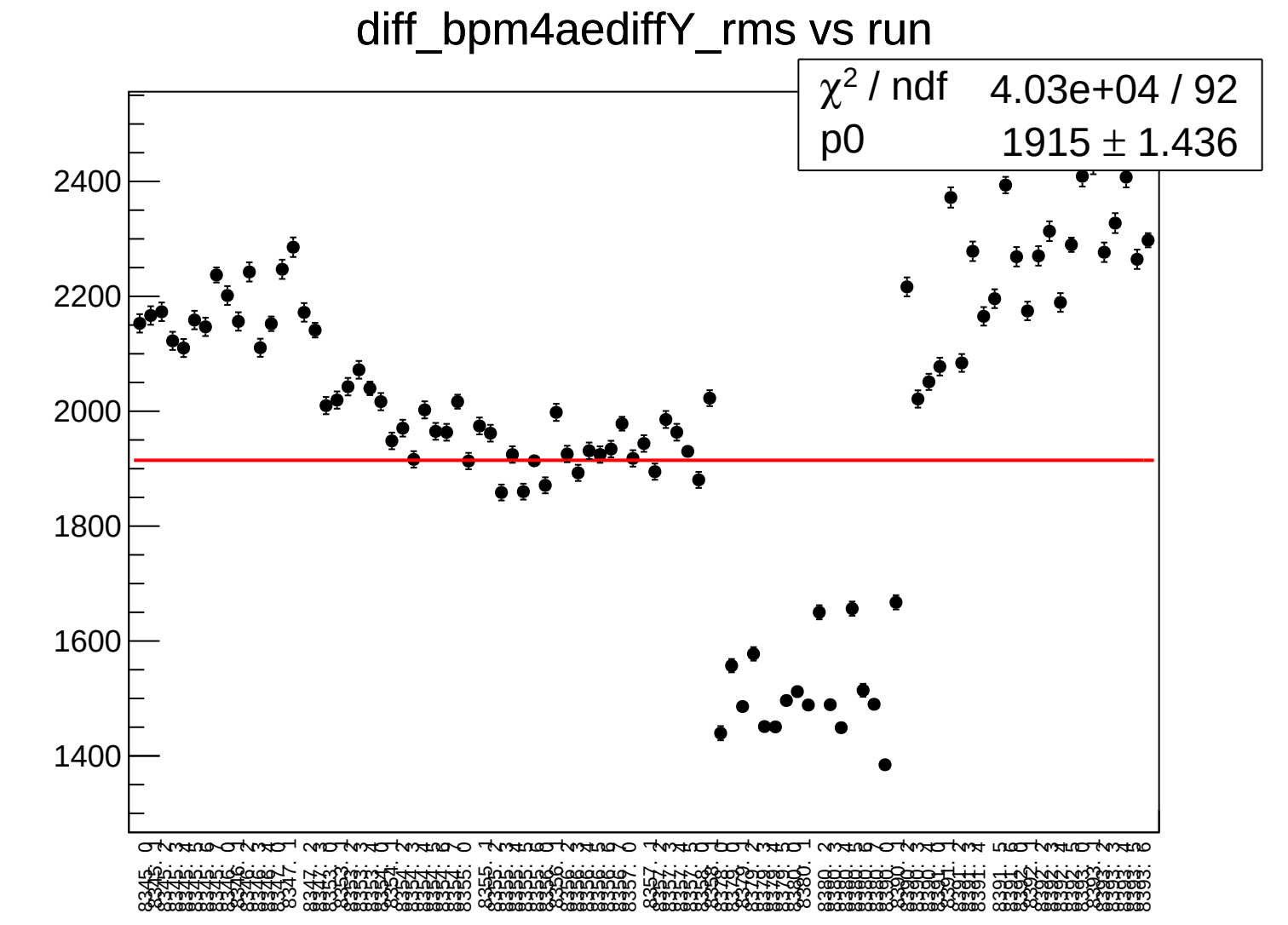

diff_bpm4aesumY_mean vs run
χ² / ndf 100.2 / 92
p0 10.63 ± 9.574
pull
Entries 93
Mean 998.2
Std Dev 0

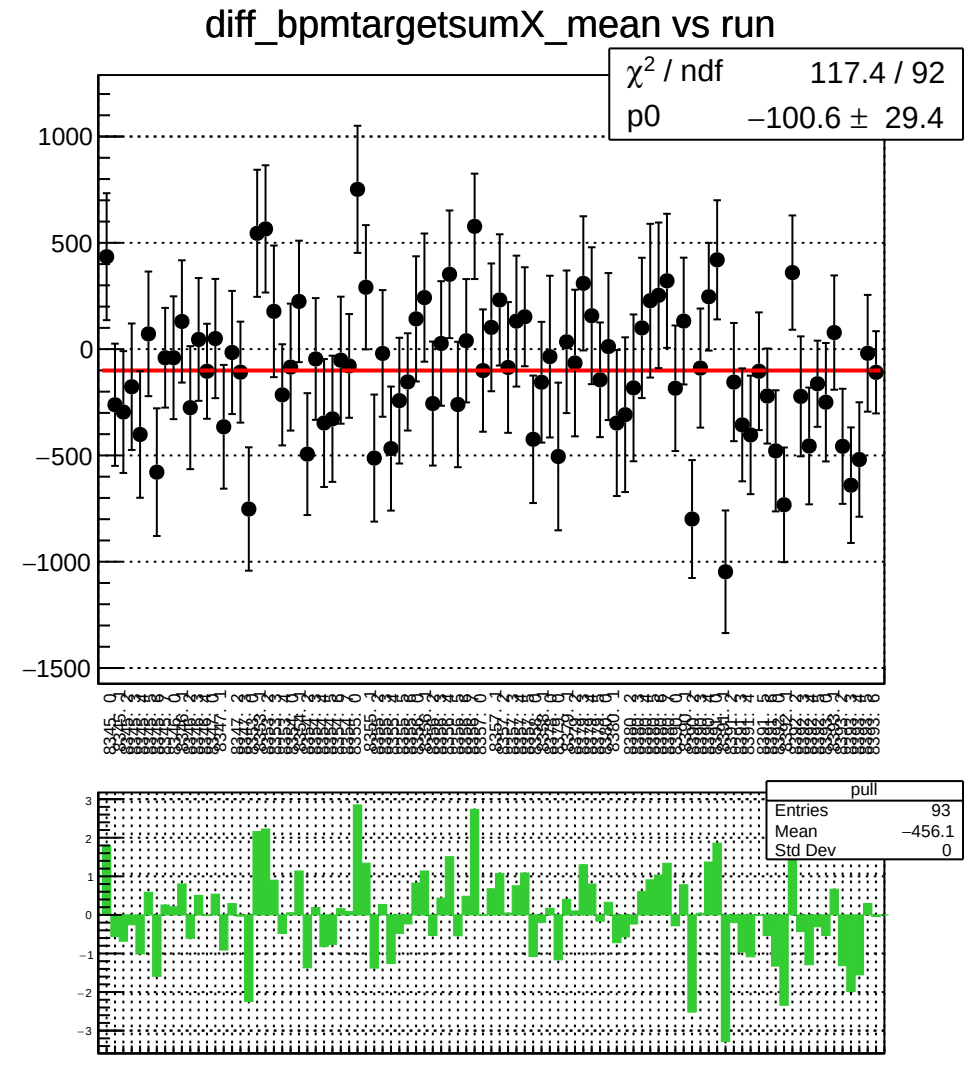

pull1D
Entries 93
Mean 0.00228
Std Dev 1.038

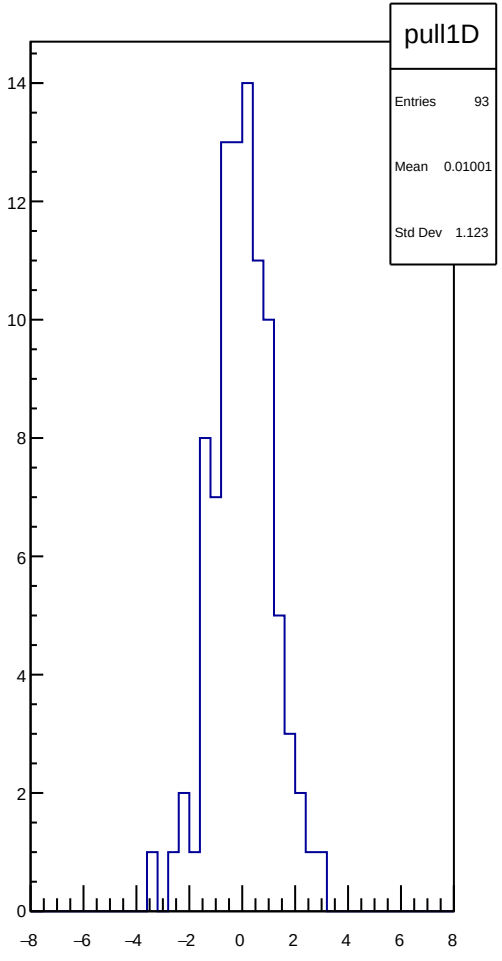

diff_bpm4aesumY_rms vs run
χ² / ndf 8.748e+04 / 92
p0 8908 ± 6.77
12000
11000
10000
9000
8000
7000
6000
5000

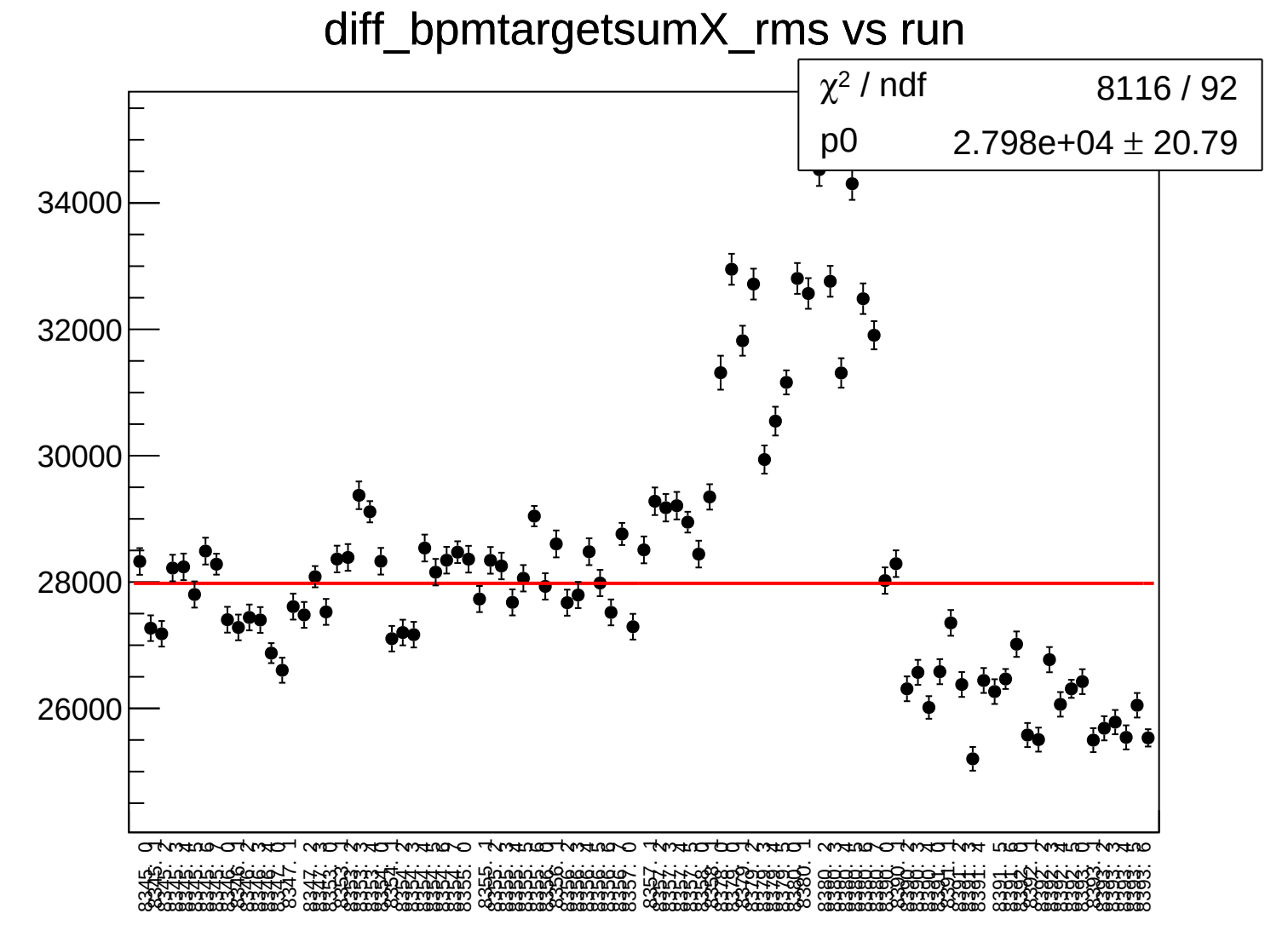

diff_bpm4aediffY_mean vs run
χ² / ndf 96.56 / 92
p0 2.906 ± 2.03
pull
Entries 93
Mean 300
Std Dev 0

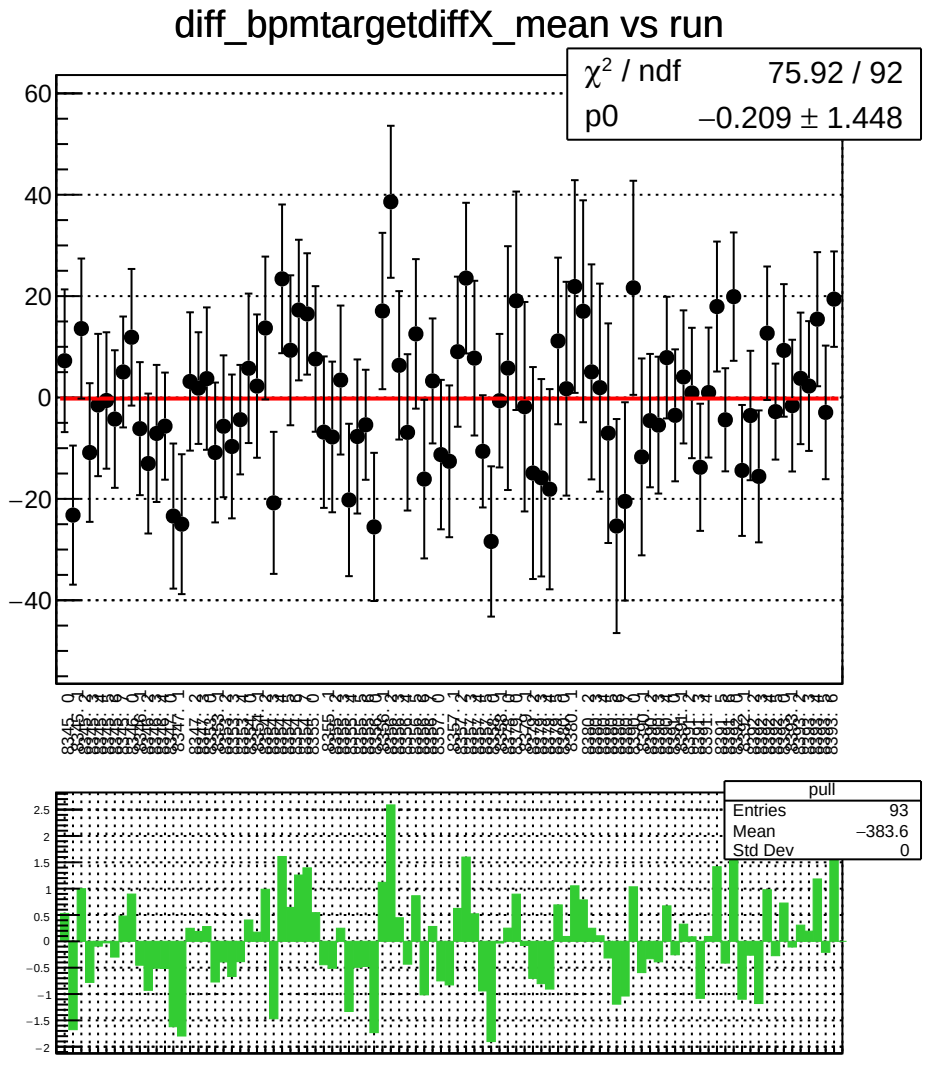

pull1D
Entries 93
Mean 0.006364
Std Dev 1.019

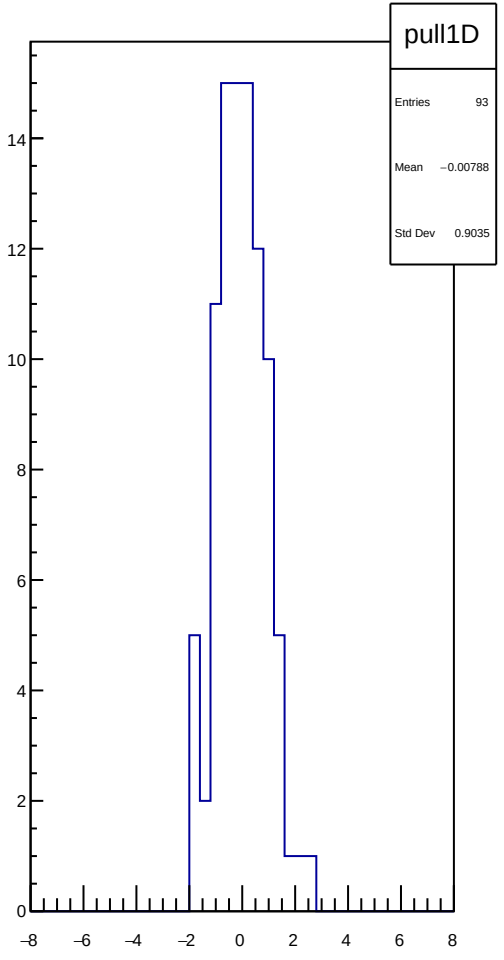

diff_bpm4aediffY_rms vs run
χ² / ndf 4.03e+04 / 92
p0 1915 ± 1.436
2400
2200
2000
1800
1600
1400

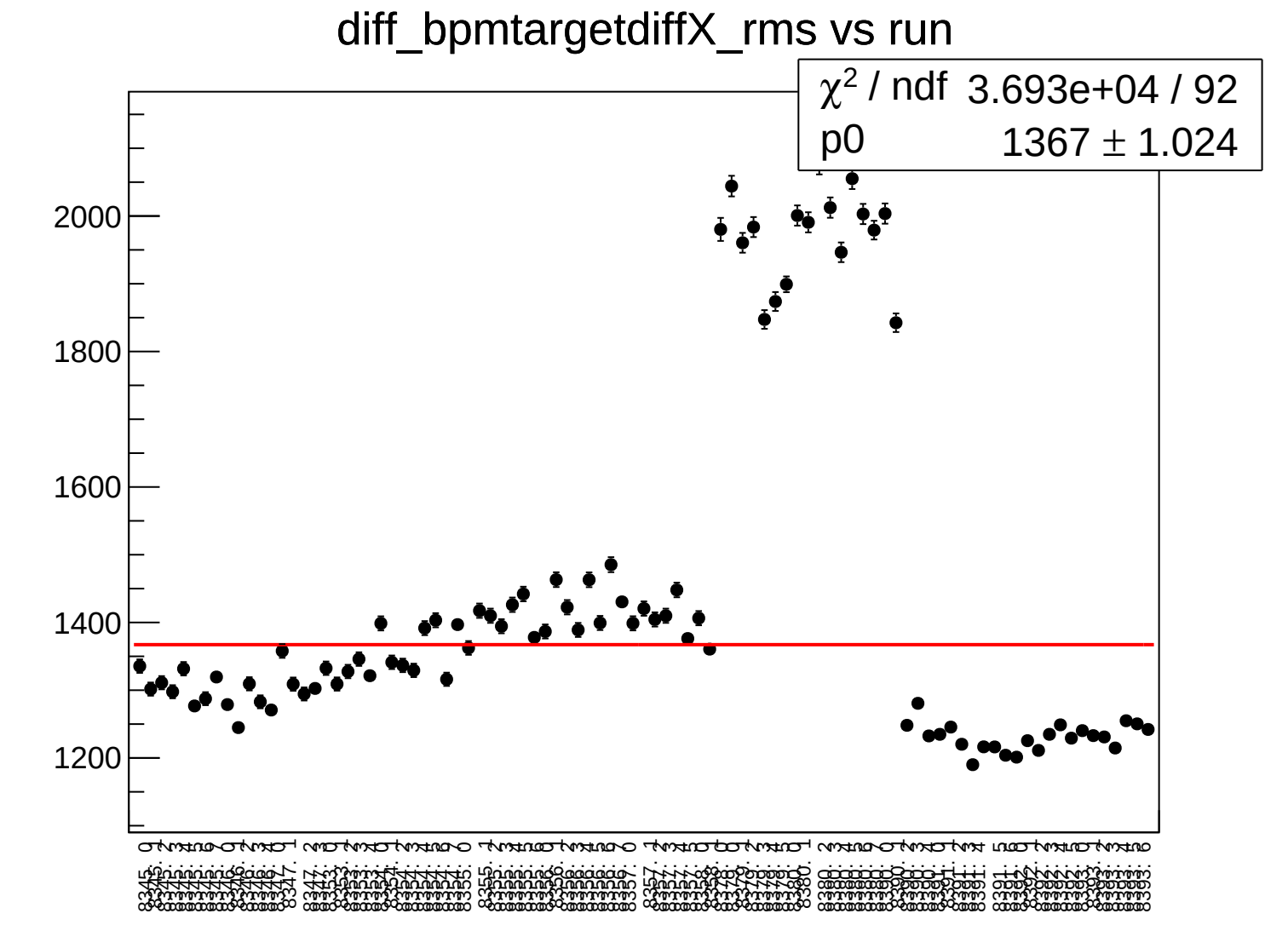

diff_bpmtargetsumX_mean vs run
χ² / ndf 117.4 / 92
p0 −100.6 ± 29.4
1000
500
0
−500
−1000
−1500
pull
Entries 93
Mean −456.1
Std Dev 0
3
2
1
0
−1
−2
−3

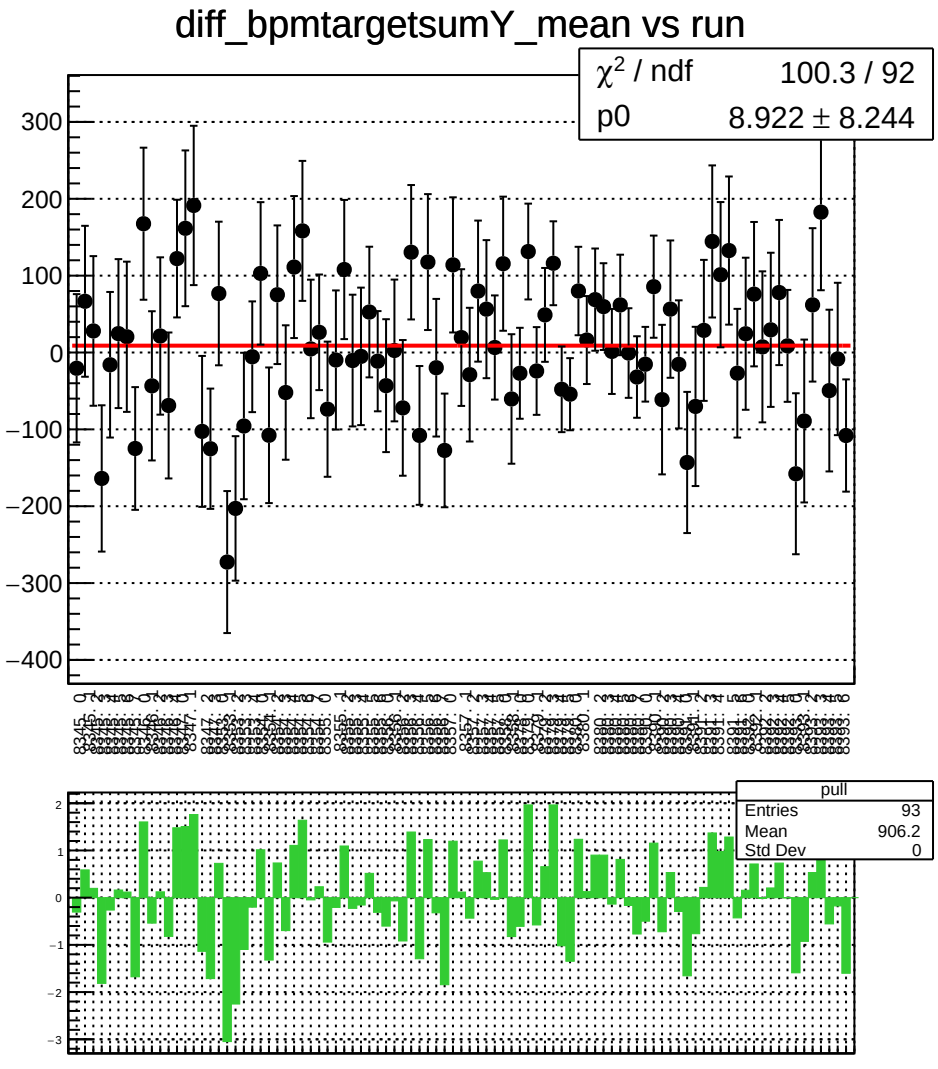

pull1D
Entries 93
Mean 0.01001
Std Dev 1.123
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

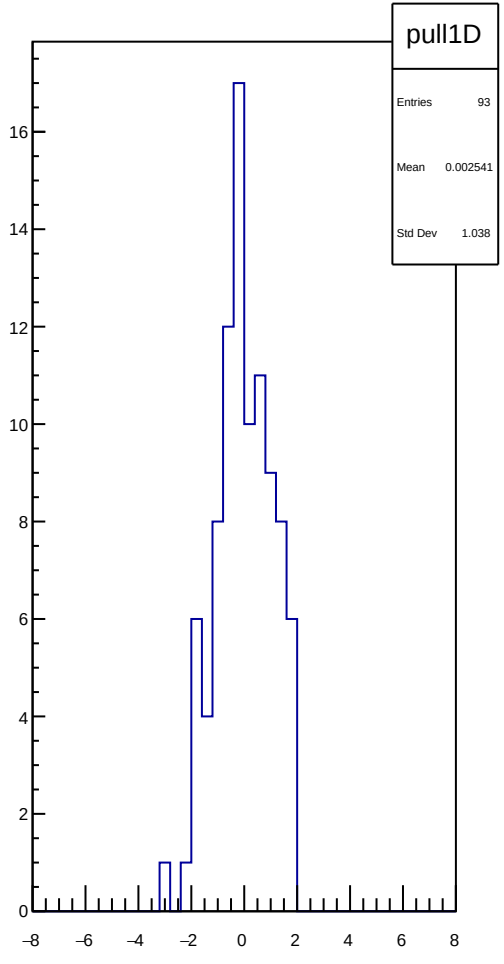

diff_bpmtargetsumX_rms vs run
χ² / ndf 8116 / 92
p0 2.798e+04 ± 20.79
34000
32000
30000
28000
26000

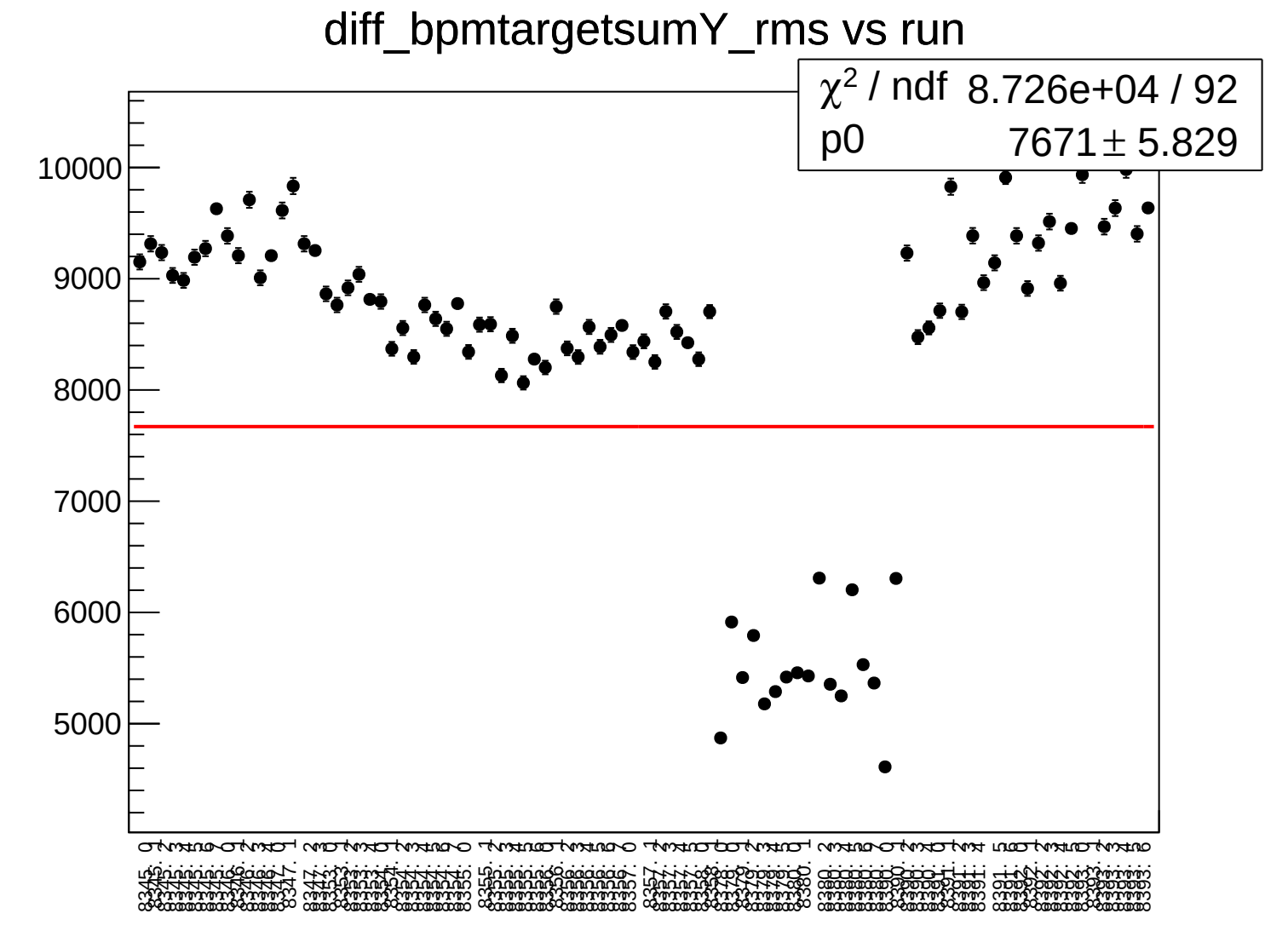

diff_bpmtargetdiffX_mean vs run
χ² / ndf 75.92 / 92
p0 −0.209 ± 1.448
pull
Entries 93
Mean −383.6
Std Dev 0

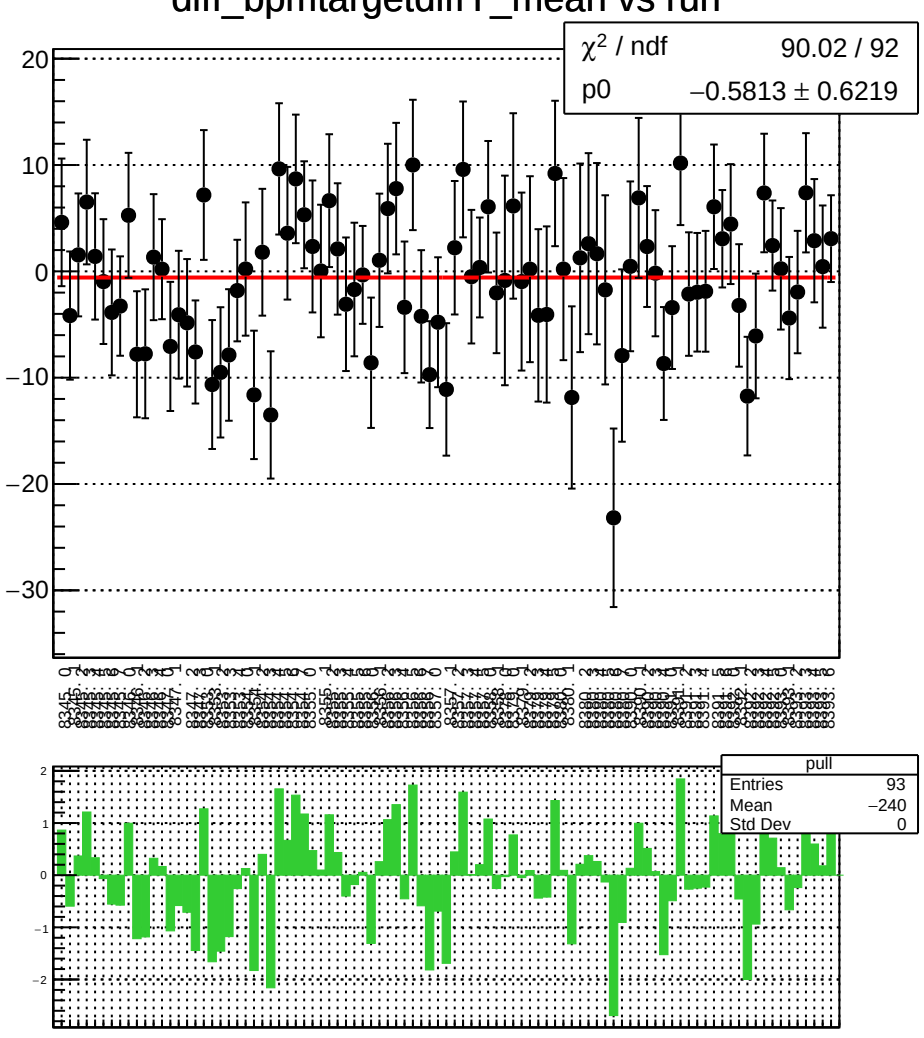

pull1D
Entries 93
Mean −0.00788
Std Dev 0.9035

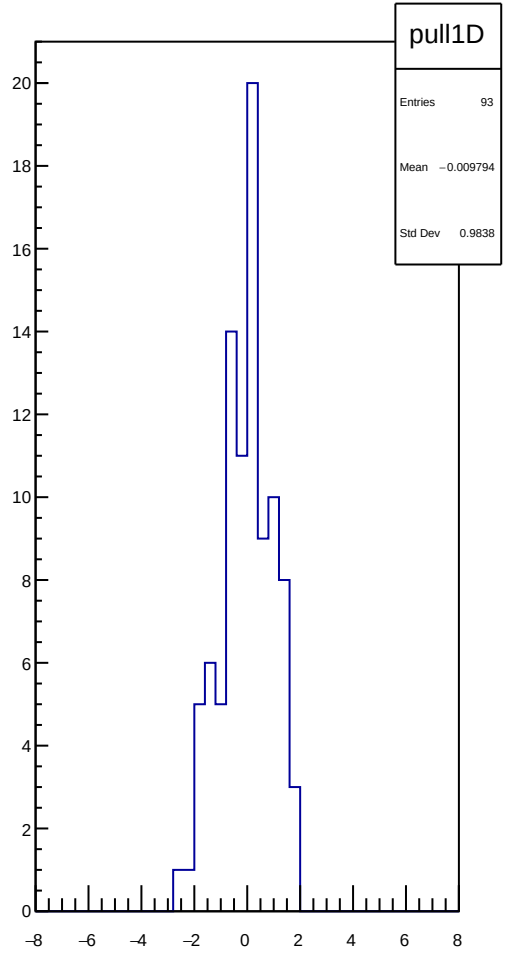

diff_bpmtargetdiffX_rms vs run
χ² / ndf 3.693e+04 / 92
p0 1367 ± 1.024
2000
1800
1600
1400
1200

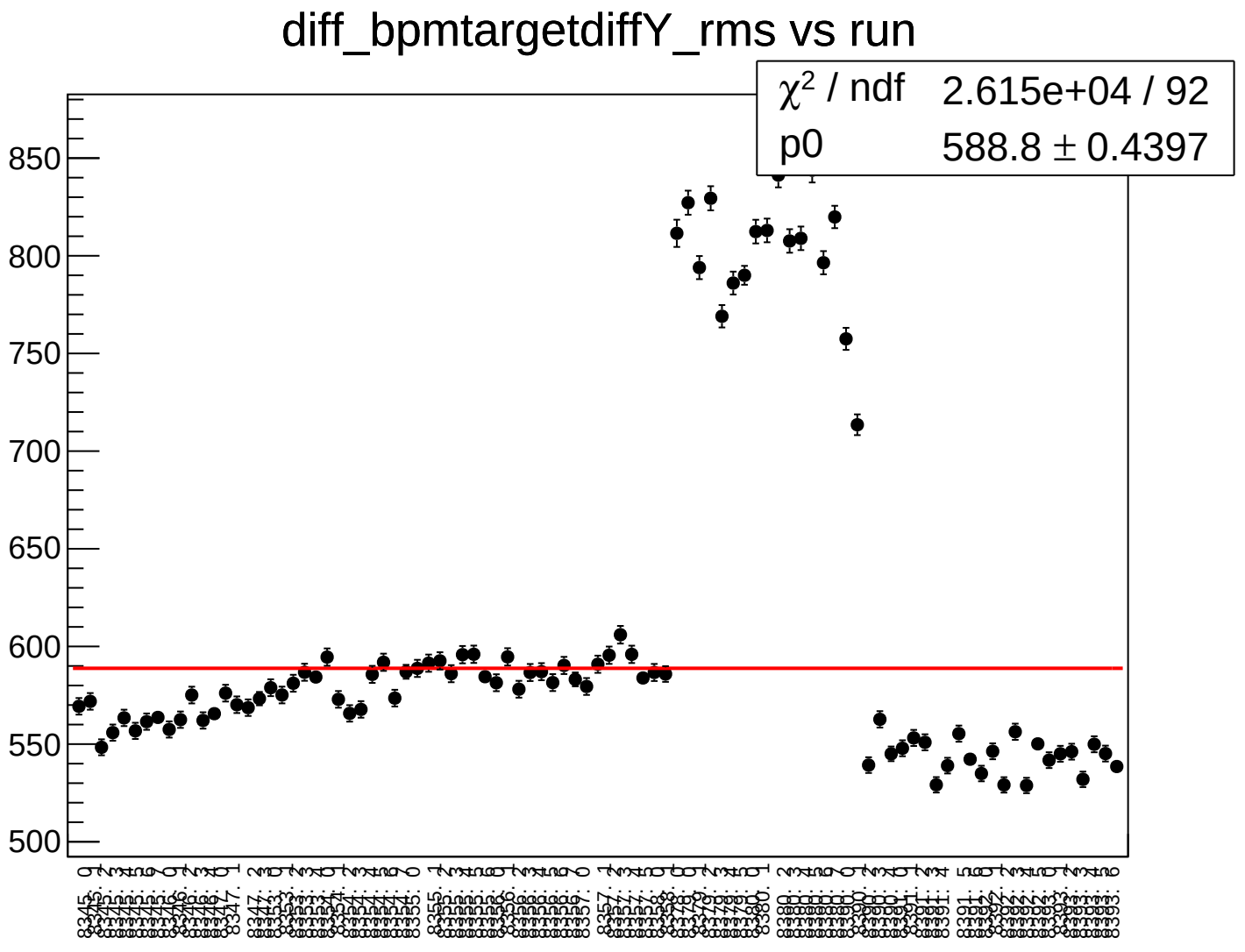

diff_bpmtargetsumY_mean vs run
χ² / ndf 100.3 / 92
p0 8.922 ± 8.244
pull
Entries 93
Mean 906.2
Std Dev 0

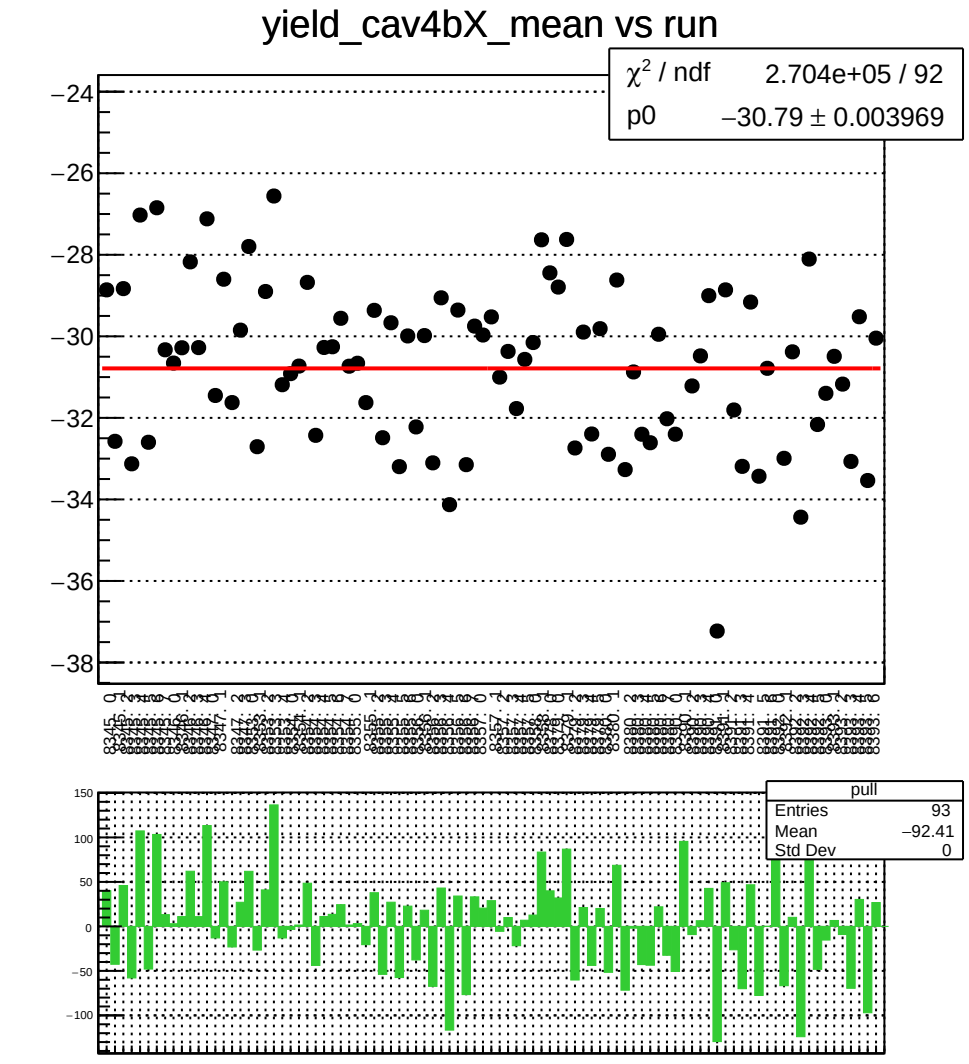

pull1D
Entries 93
Mean 0.002541
Std Dev 1.038

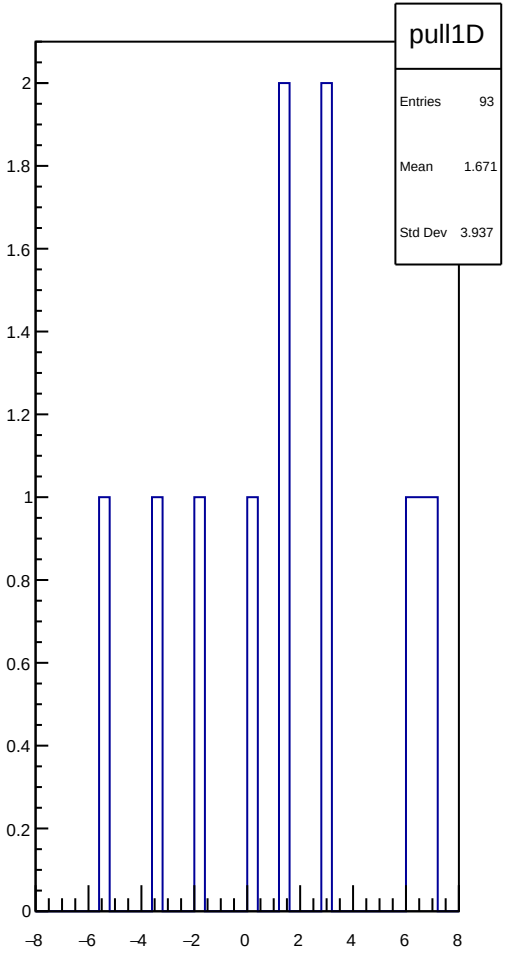

diff_bpmtargetsumY_rms vs run
χ² / ndf 8.726e+04 / 92
p0 7671 ± 5.829
10000
9000
8000
7000
6000
5000

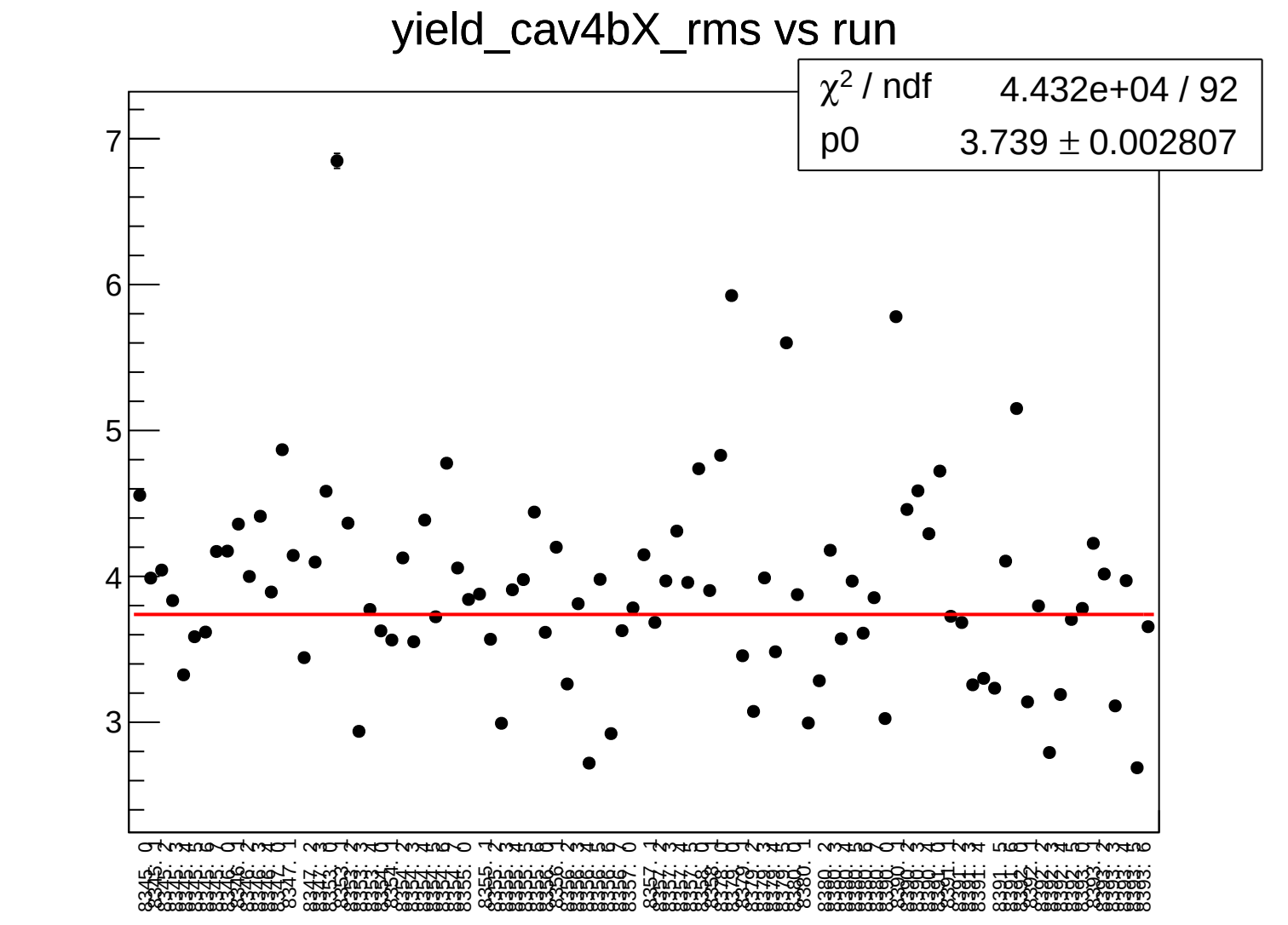

diff_bpmtargetdiffY_mean vs run
χ² / ndf 90.02 / 92
p0 −0.5813 ± 0.6219
pull
Entries 93
Mean −240
Std Dev 0

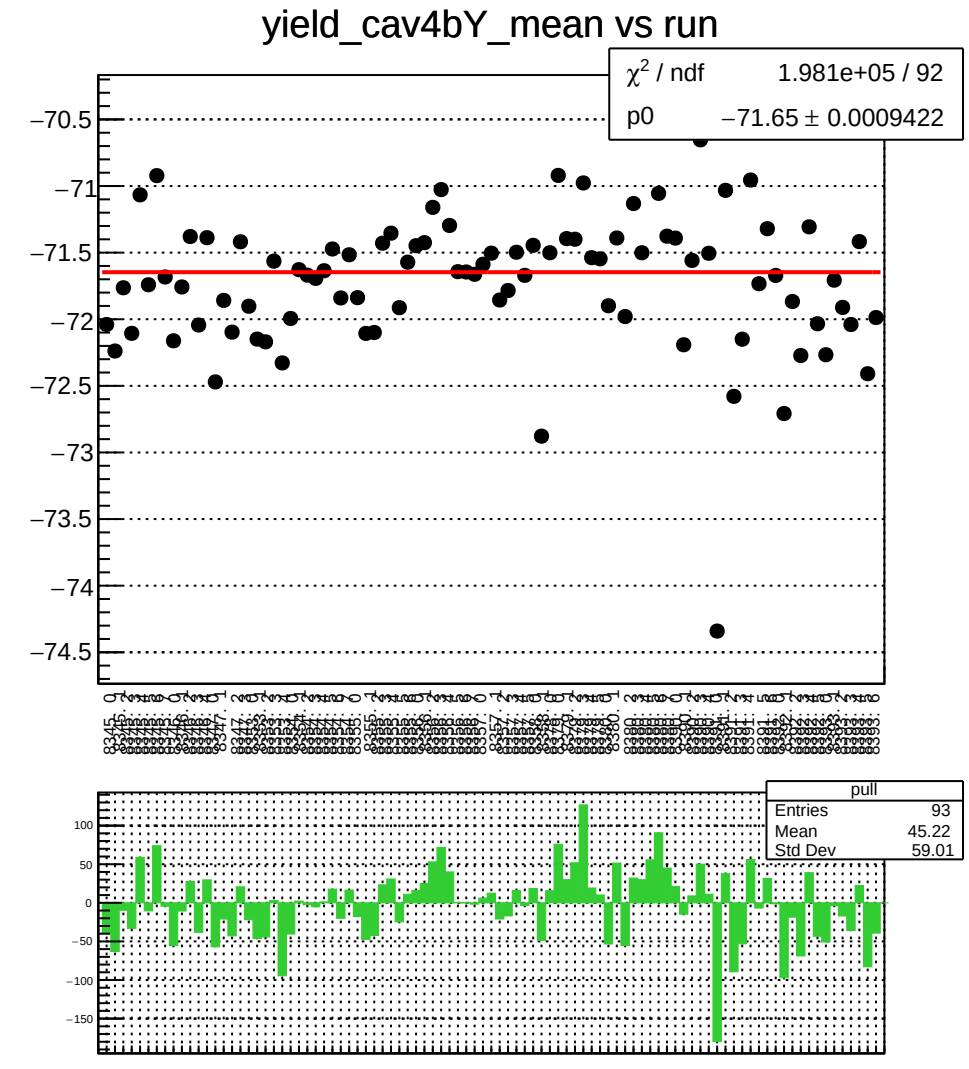

pull1D
Entries 93
Mean −0.009794
Std Dev 0.9838

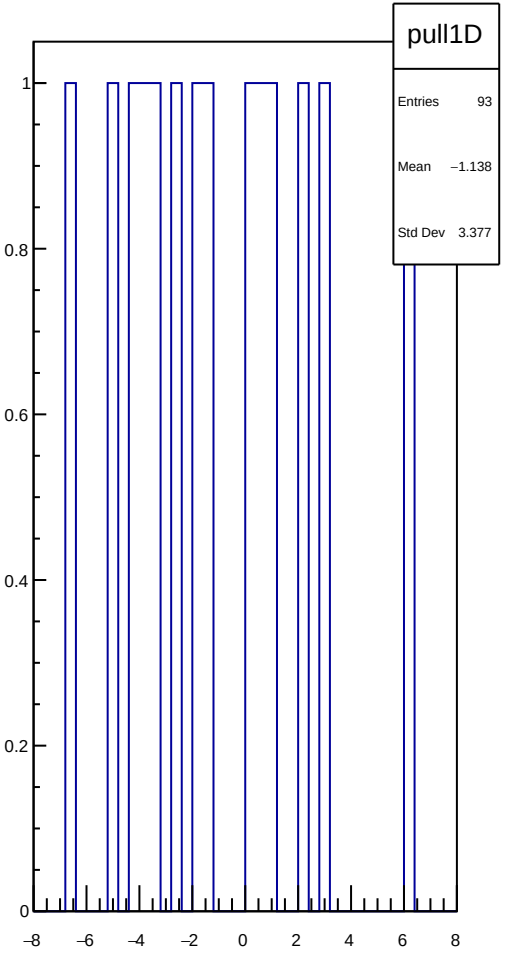

diff_bpmtargetdiffY_rms vs run
χ² / ndf 2.615e+04 / 92
p0 588.8 ± 0.4397
850
800
750
700
650
600
550
500

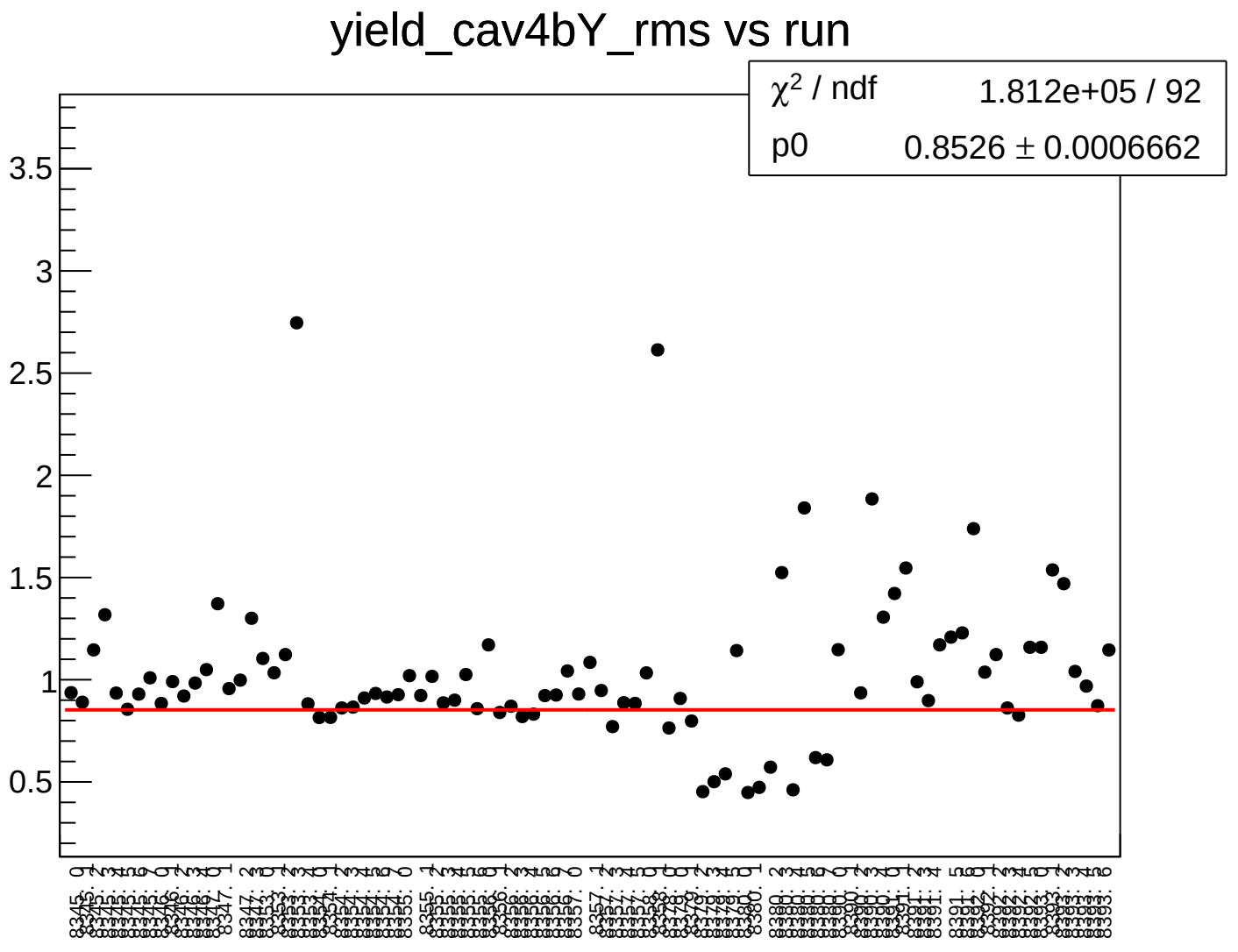

yield_cav4bX_mean vs run
χ² / ndf 2.704e+05 / 92
p0 −30.79 ± 0.003969
pull
Entries 93
Mean −92.41
Std Dev 0

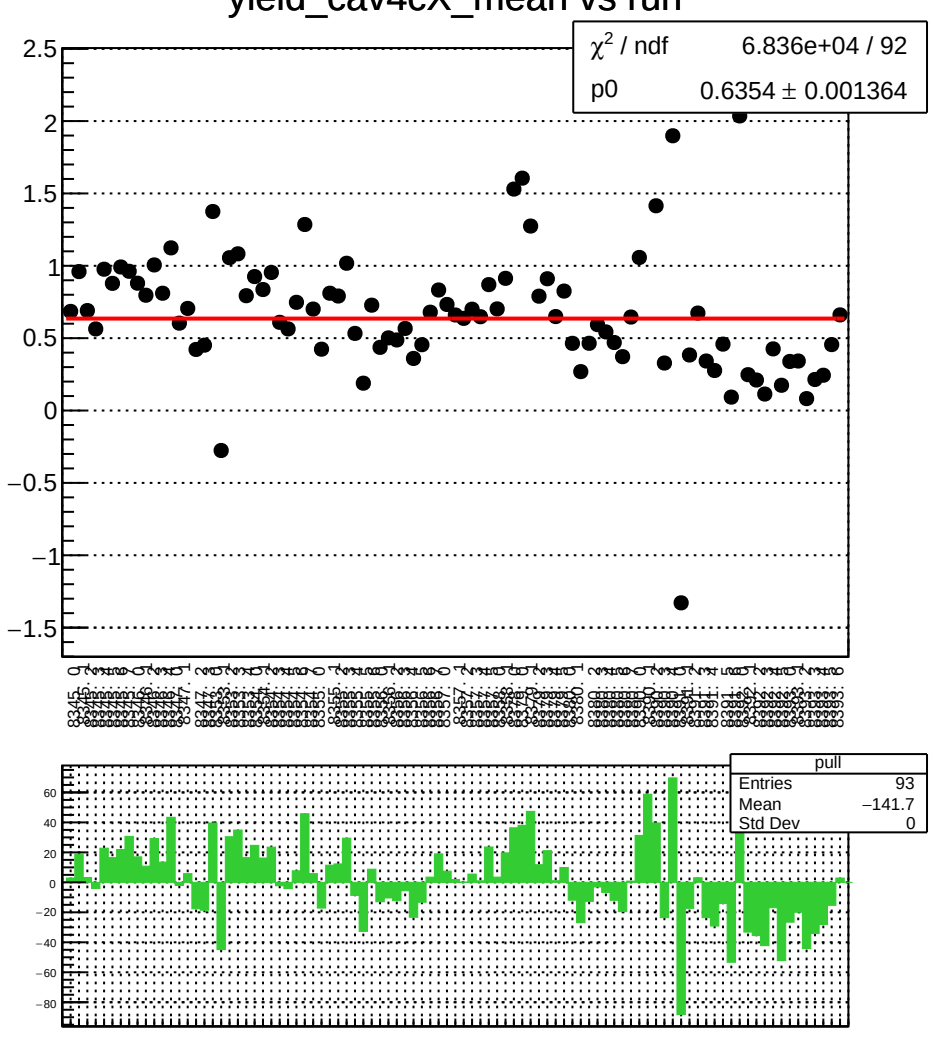

pull1D
Entries 93
Mean 1.671
Std Dev 3.937

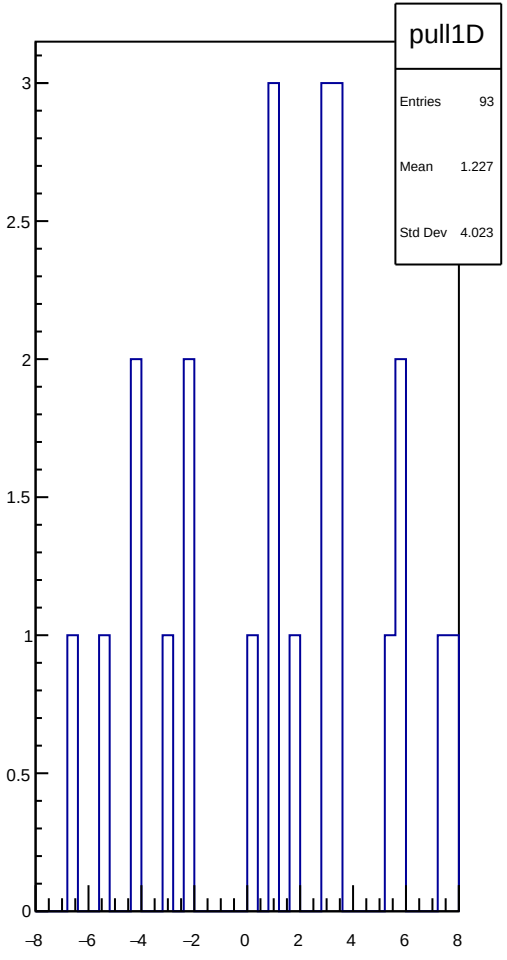

yield_cav4bX_rms vs run
χ^2 / ndf 4.432e+04 / 92
p0 3.739 ± 0.002807
7
6
5
4
3

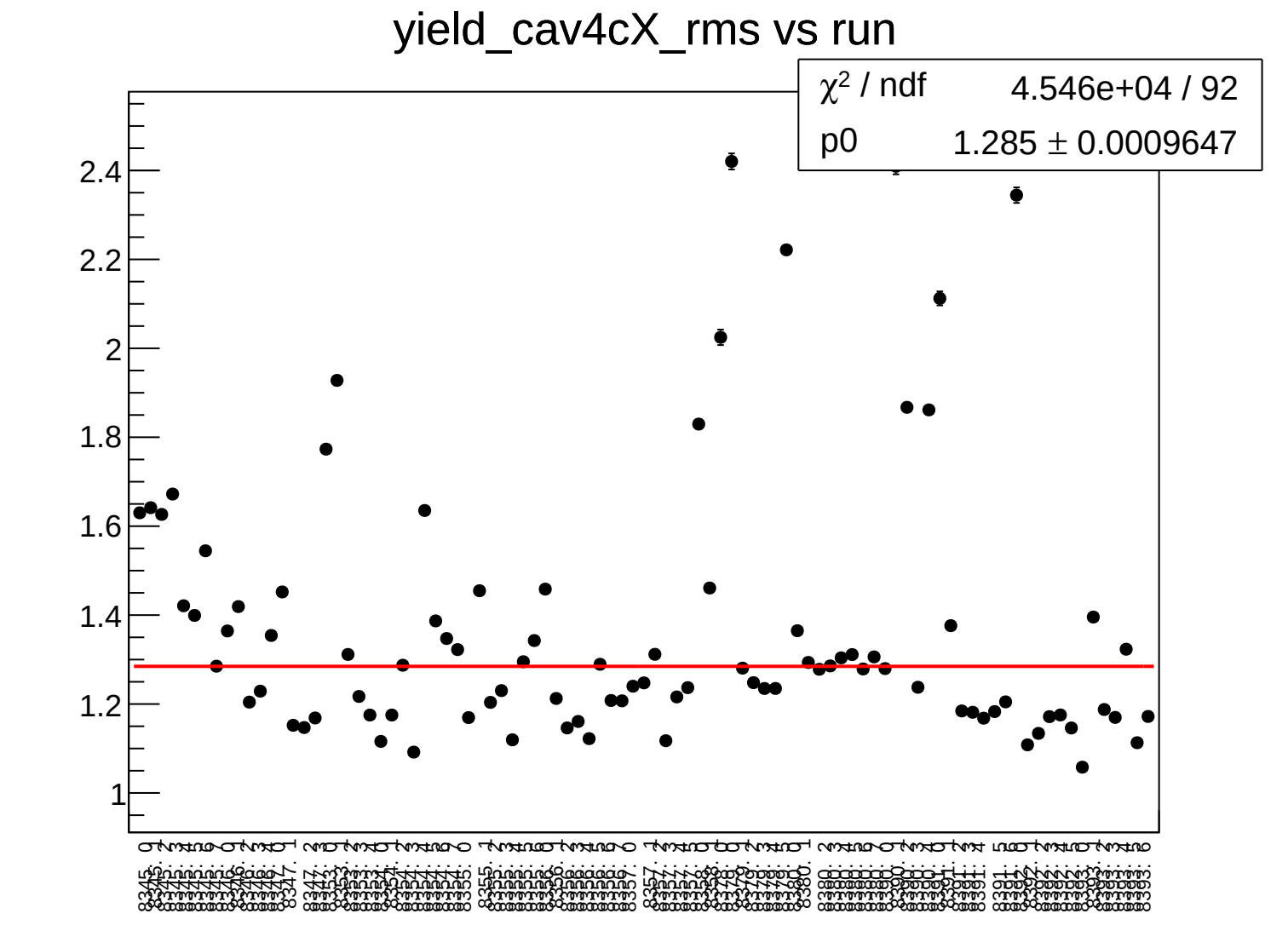

yield_cav4bY_mean vs run
χ² / ndf 1.981e+05 / 92
p0 −71.65 ± 0.0009422
−70.5
−71
−71.5
−72
−72.5
−73
−73.5
−74
−74.5
pull
Entries 93
Mean 45.22
Std Dev 59.01
100
50
0
−50
−100
−150

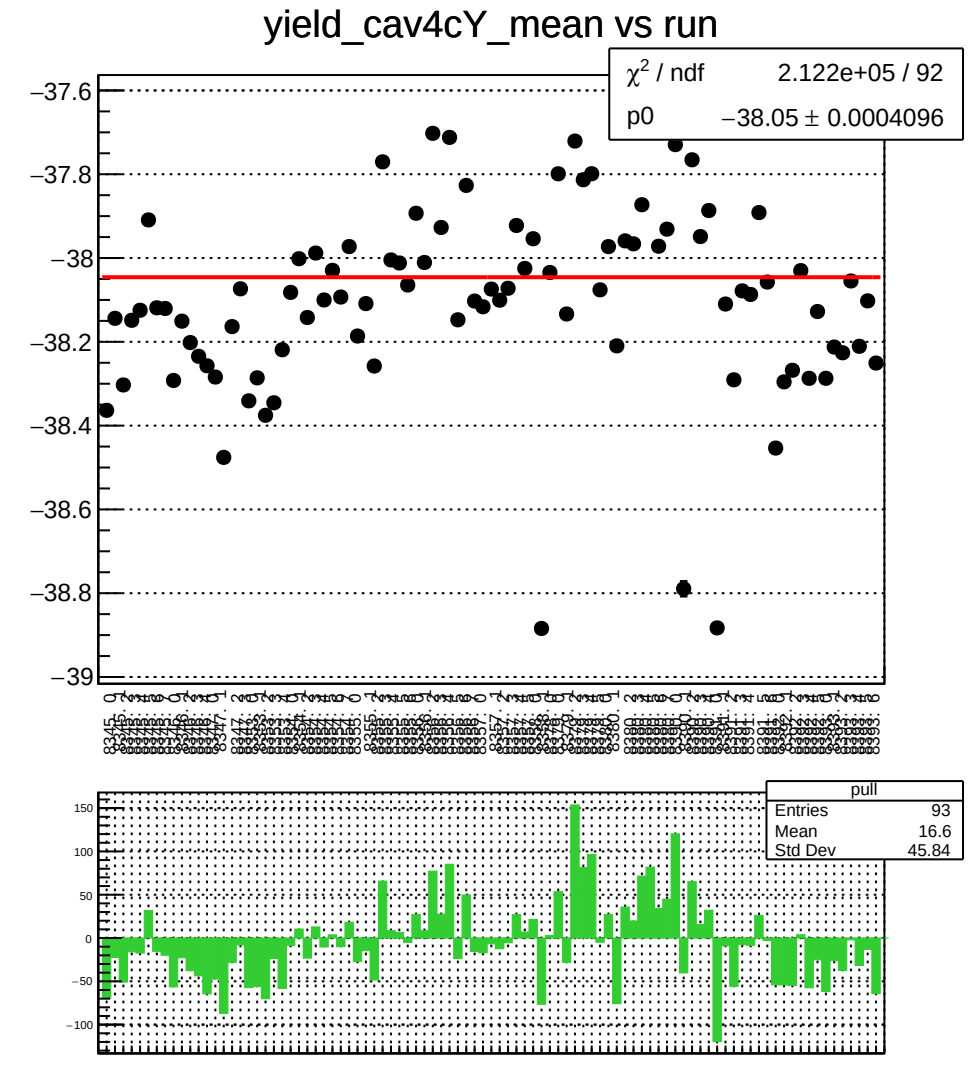

pull1D
Entries 93
Mean −1.138
Std Dev 3.377
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

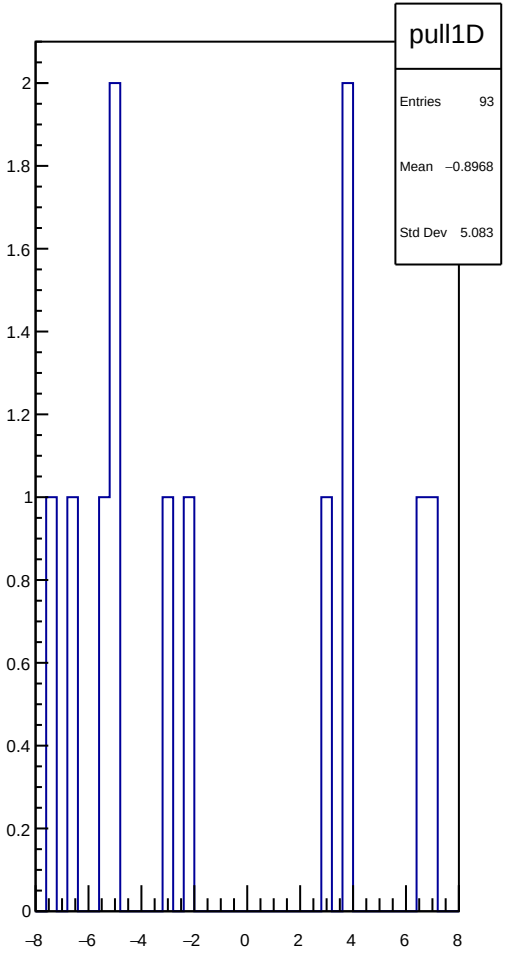

yield_cav4bY_rms vs run
χ² / ndf 1.812e+05 / 92
p0 0.8526 ± 0.0006662
3.5
3
2.5
2
1.5
1
0.5

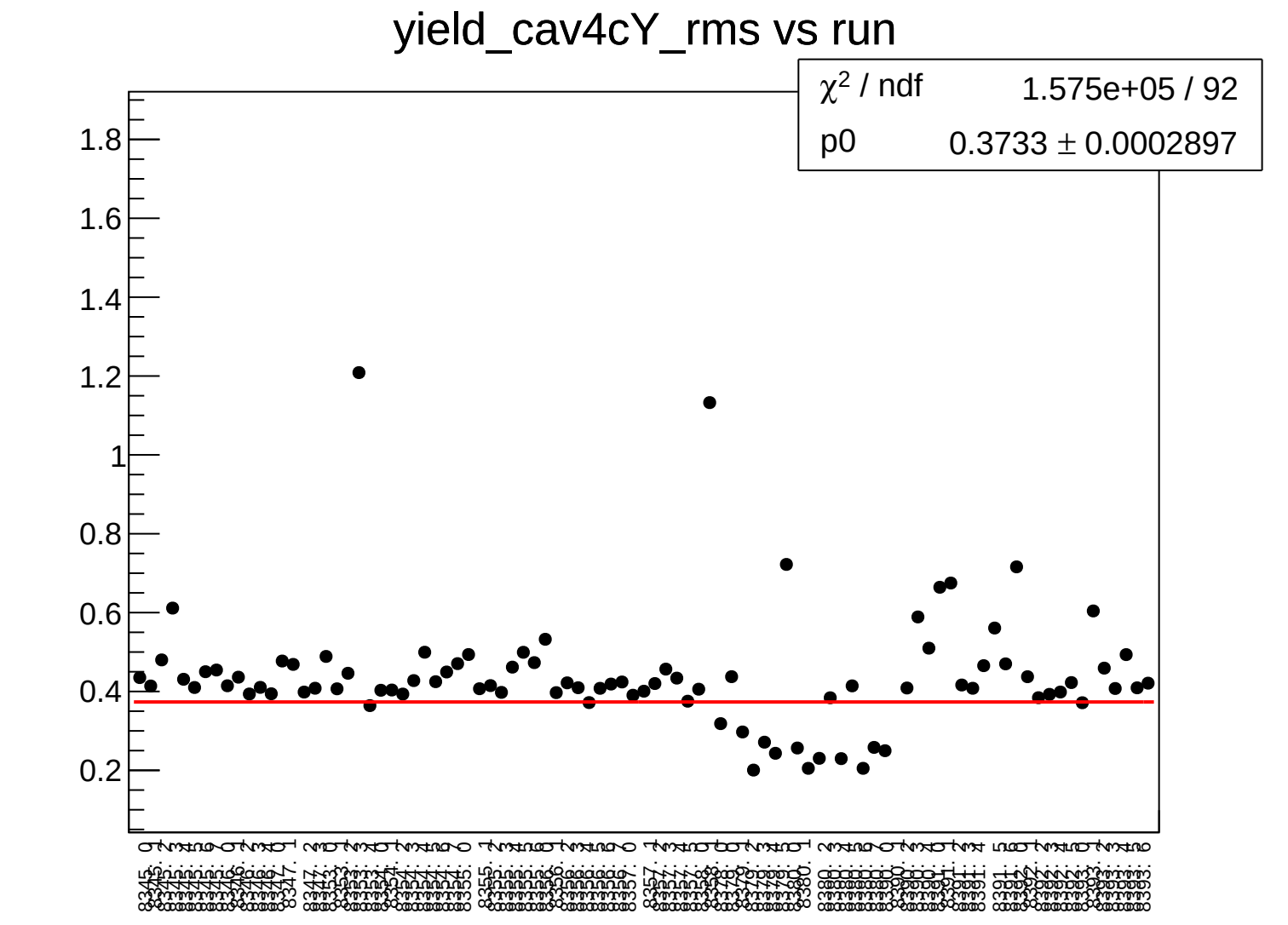

yield_cav4cX_mean vs run
χ² / ndf 6.836e+04 / 92
p0 0.6354 ± 0.001364
pull
Entries 93
Mean −141.7
Std Dev 0

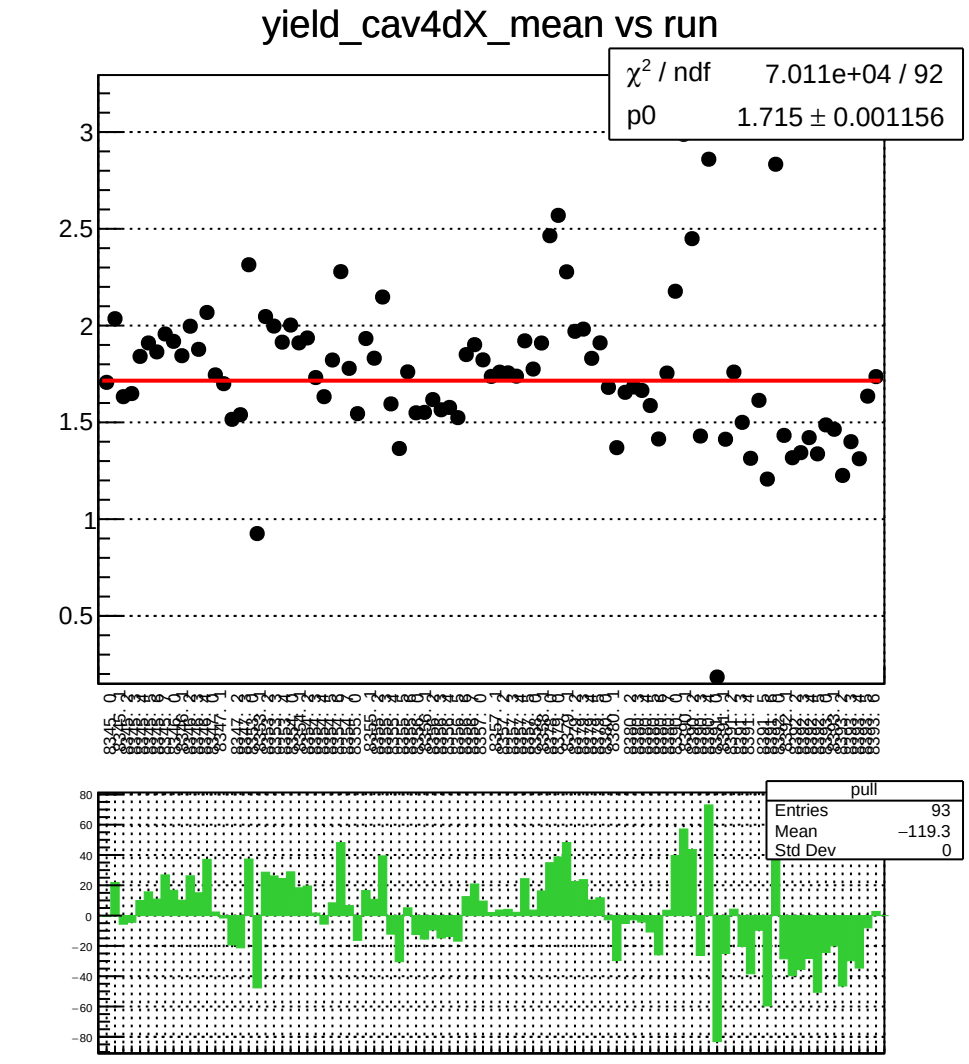

pull1D
Entries 93
Mean 1.227
Std Dev 4.023

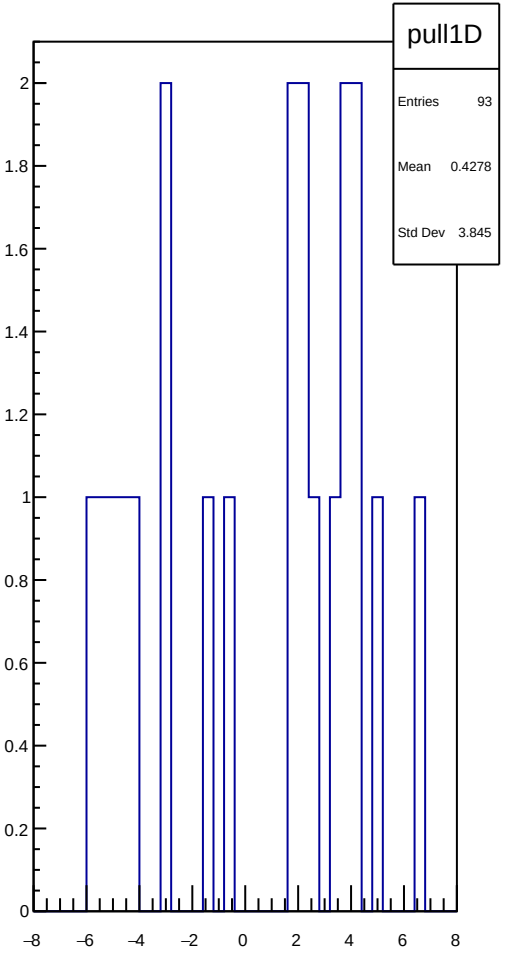

yield_cav4cX_rms vs run
χ² / ndf 4.546e+04 / 92
p0 1.285 ± 0.0009647
2.4
2.2
2
1.8
1.6
1.4
1.2
1

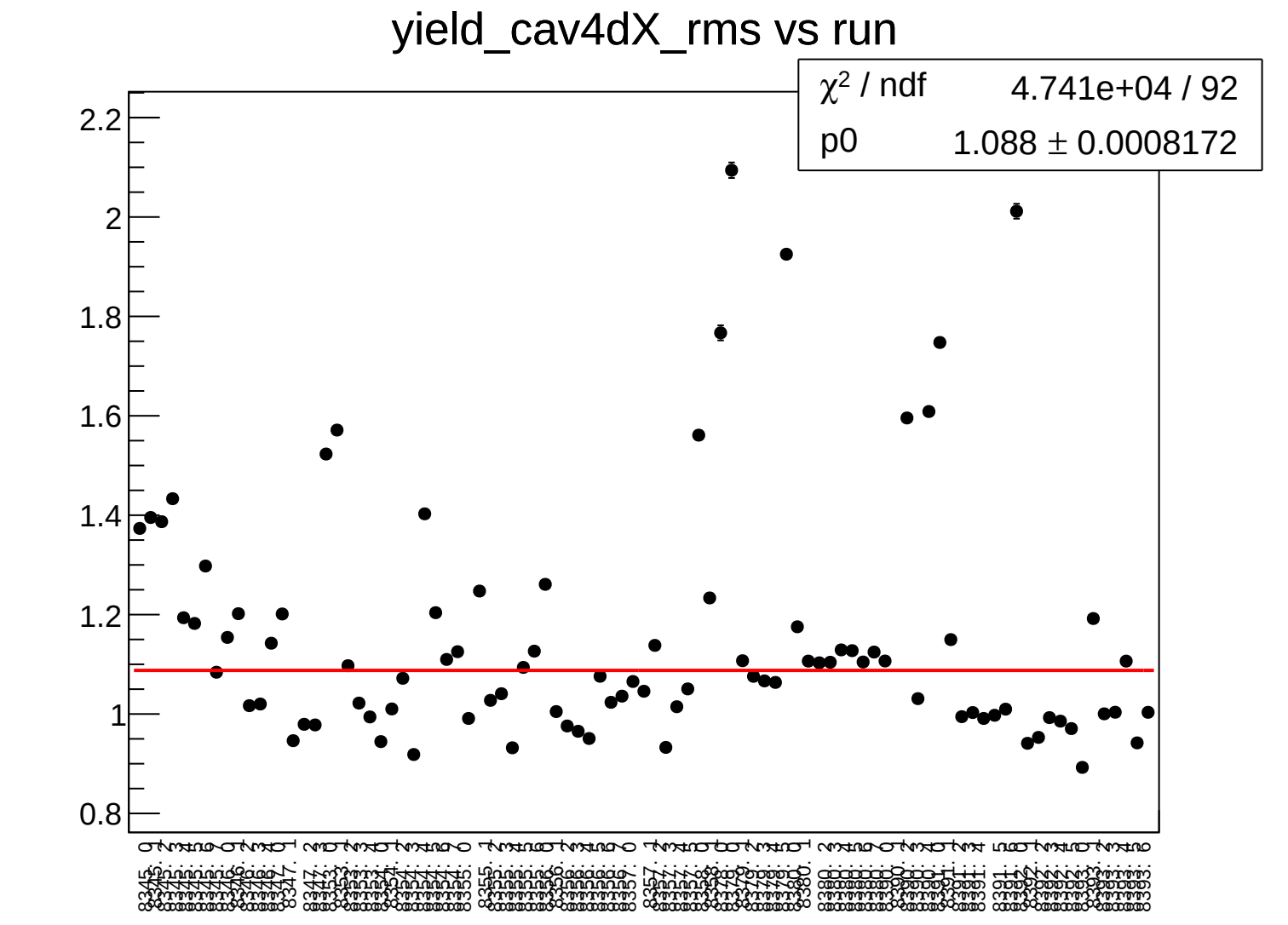

yield_cav4cY_mean vs run
χ² / ndf 2.122e+05 / 92
p0 −38.05 ± 0.0004096
−37.6
−37.8
−38
−38.2
−38.4
−38.6
−38.8
−39
pull
Entries 93
Mean 16.6
Std Dev 45.84
150
100
50
0
−50
−100

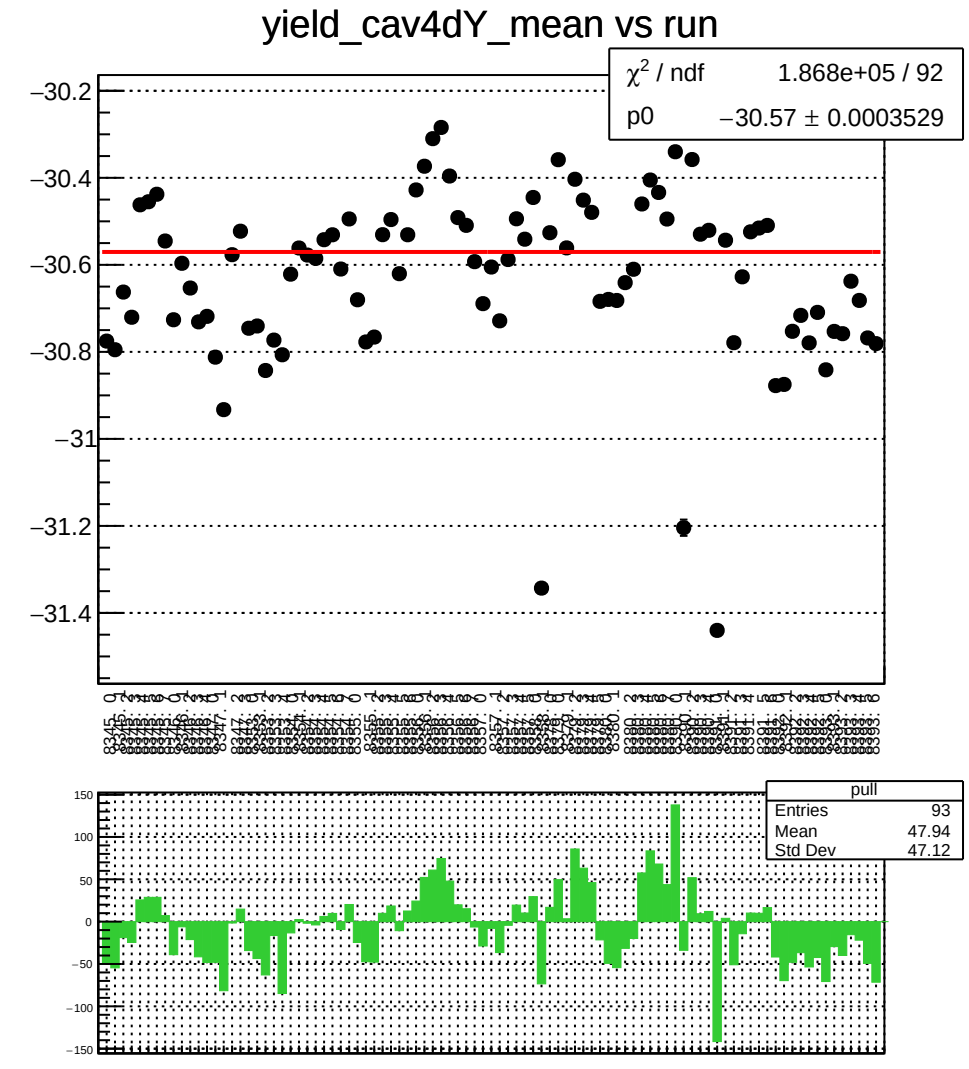

pull1D
Entries 93
Mean −0.8968
Std Dev 5.083
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

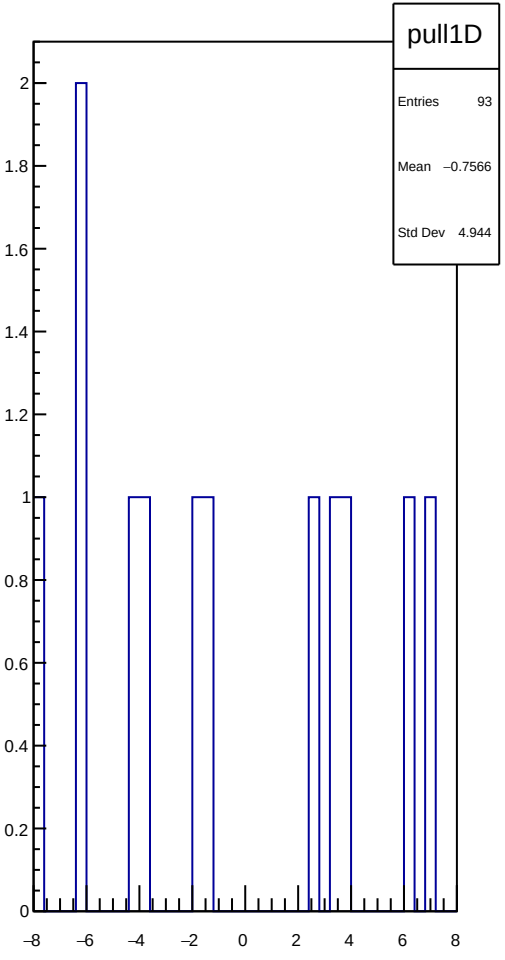

yield_cav4cY_rms vs run
χ² / ndf 1.575e+05 / 92
p0 0.3733 ± 0.0002897
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

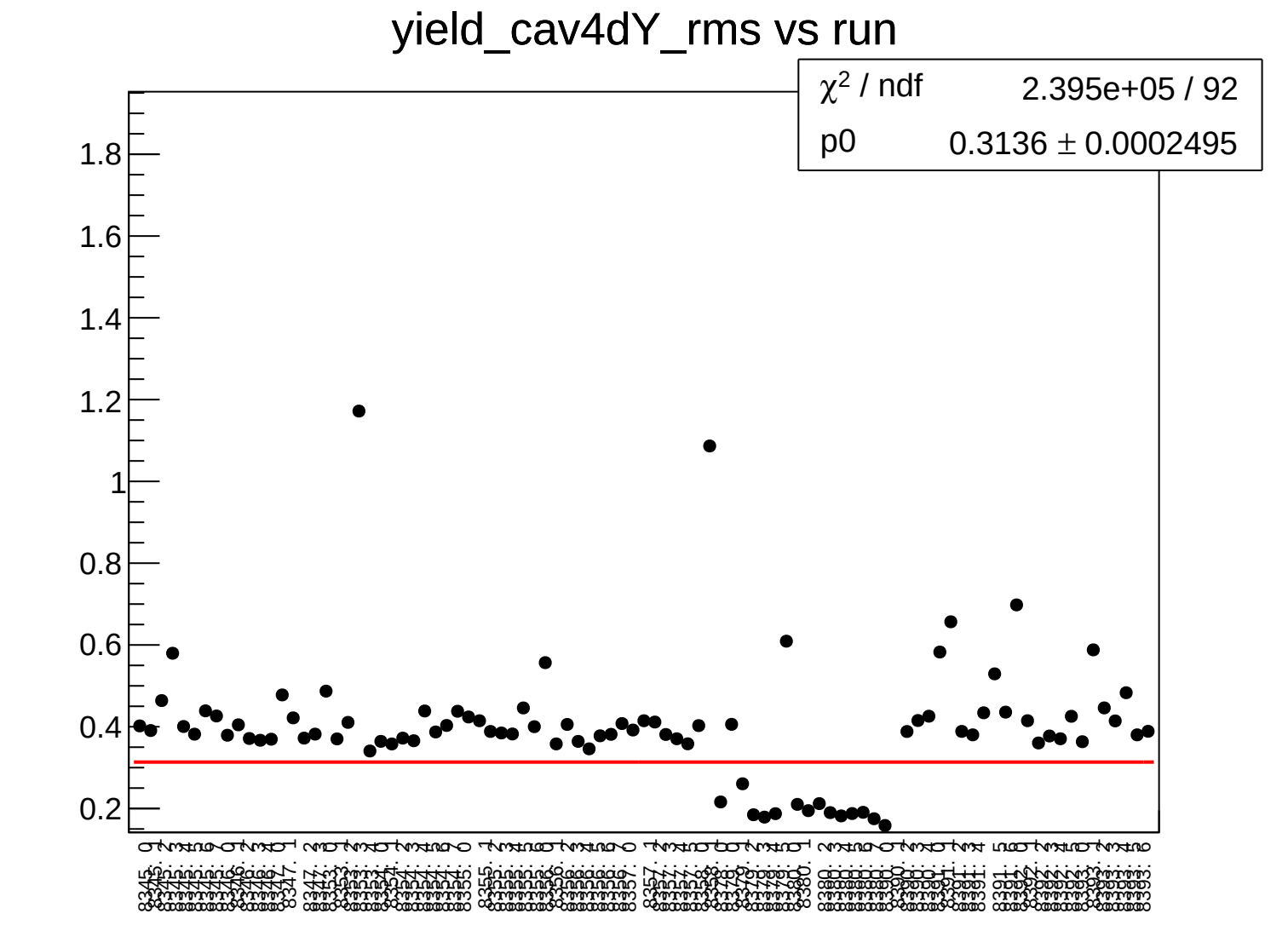

yield_cav4dX_mean vs run
χ² / ndf 7.011e+04 / 92
p0 1.715 ± 0.001156
pull
Entries 93
Mean −119.3
Std Dev 0

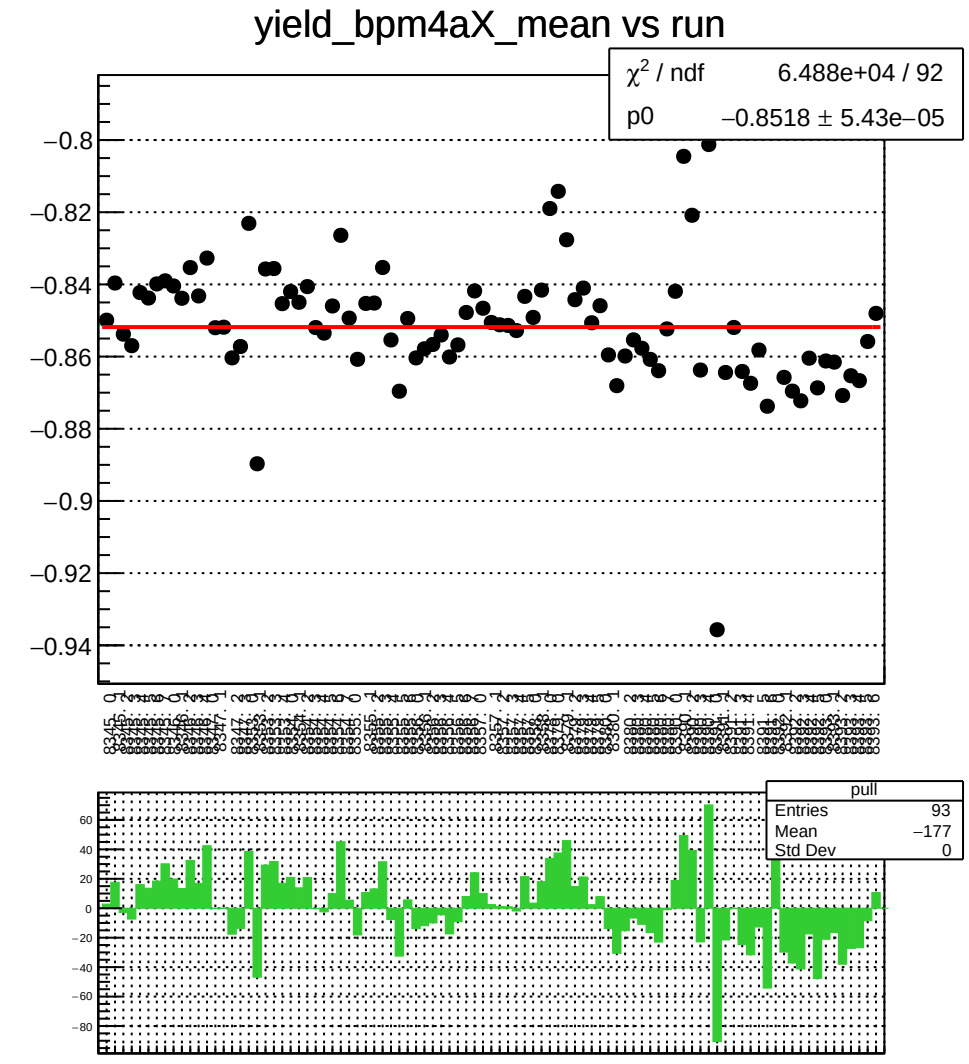

pull1D
Entries 93
Mean 0.4278
Std Dev 3.845

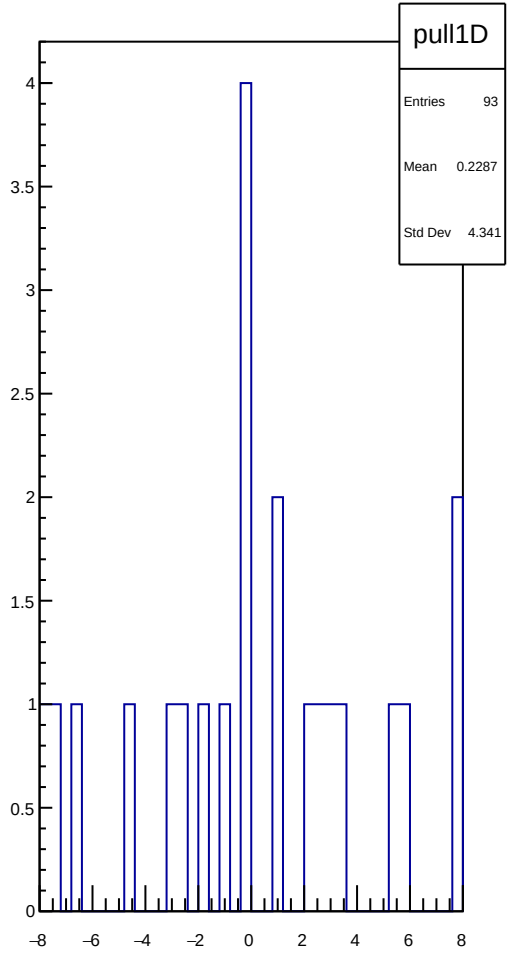

yield_cav4dX_rms vs run
χ² / ndf 4.741e+04 / 92
p0 1.088 ± 0.0008172
2.2
2
1.8
1.6
1.4
1.2
1
0.8

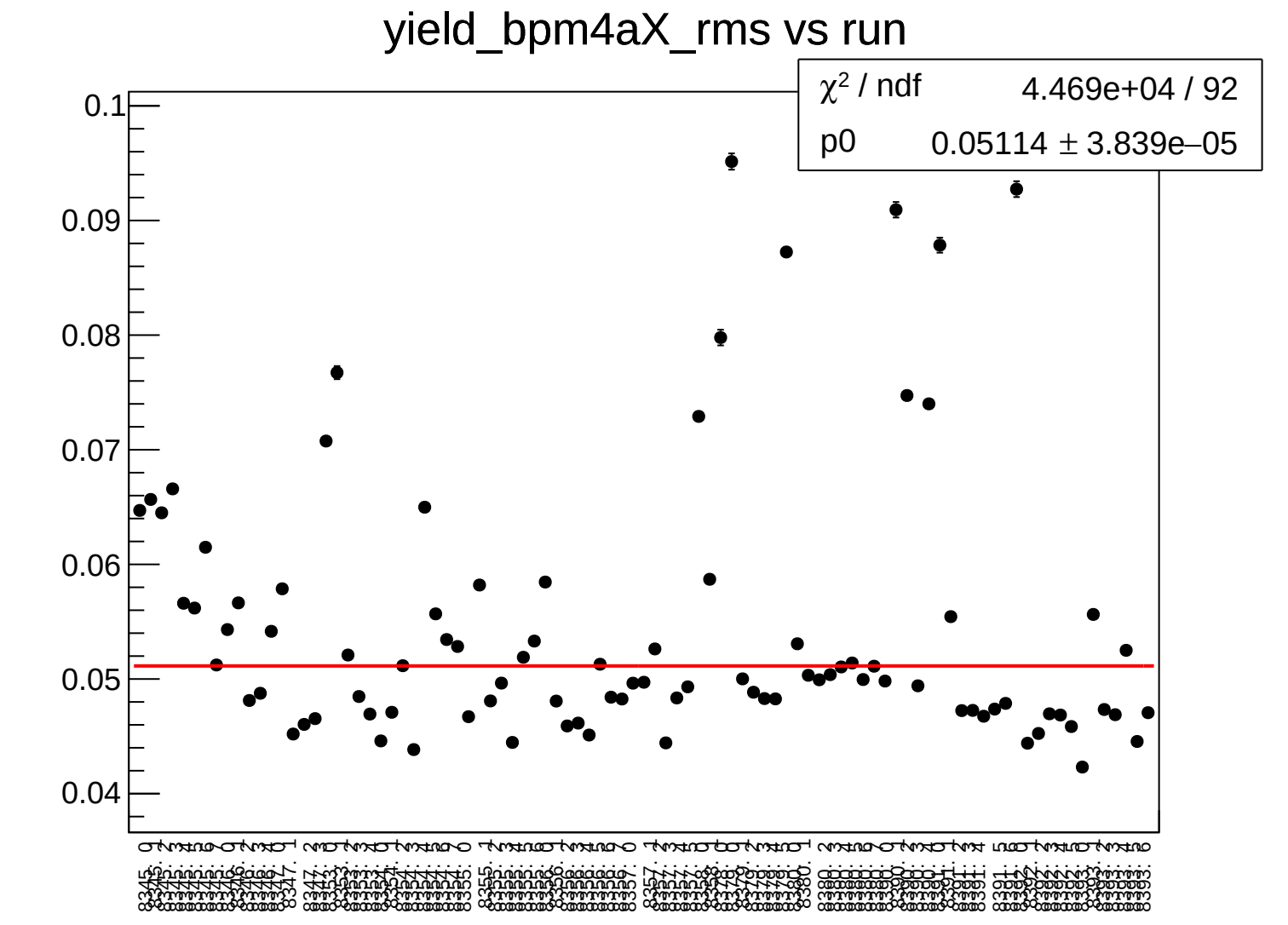

yield_cav4dY_mean vs run
χ² / ndf 1.868e+05 / 92
p0 −30.57 ± 0.0003529
−30.2
−30.4
−30.6
−30.8
−31
−31.2
−31.4
pull
Entries 93
Mean 47.94
Std Dev 47.12
150
100
50
0
−50
−100
−150

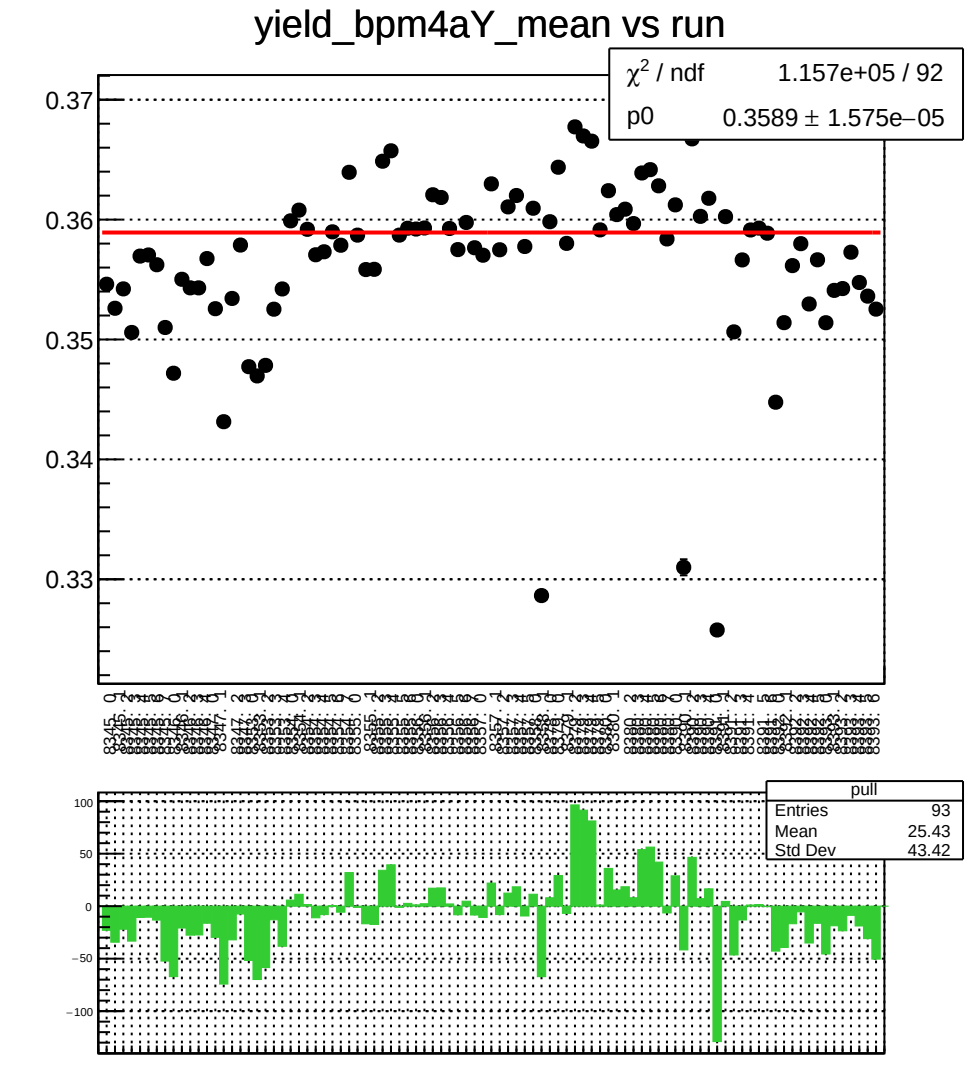

pull1D
Entries 93
Mean −0.7566
Std Dev 4.944
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

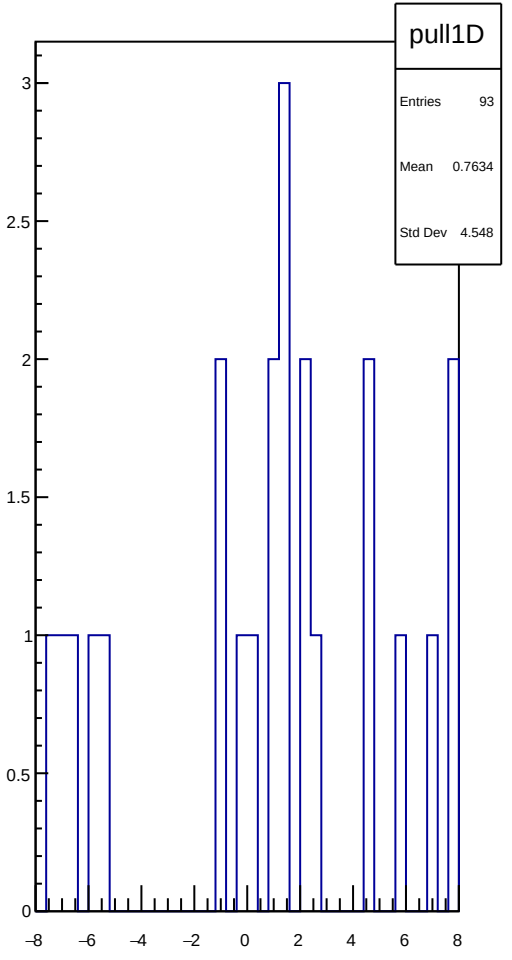

yield_cav4dY_rms vs run
χ² / ndf 2.395e+05 / 92
p0 0.3136 ± 0.0002495
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

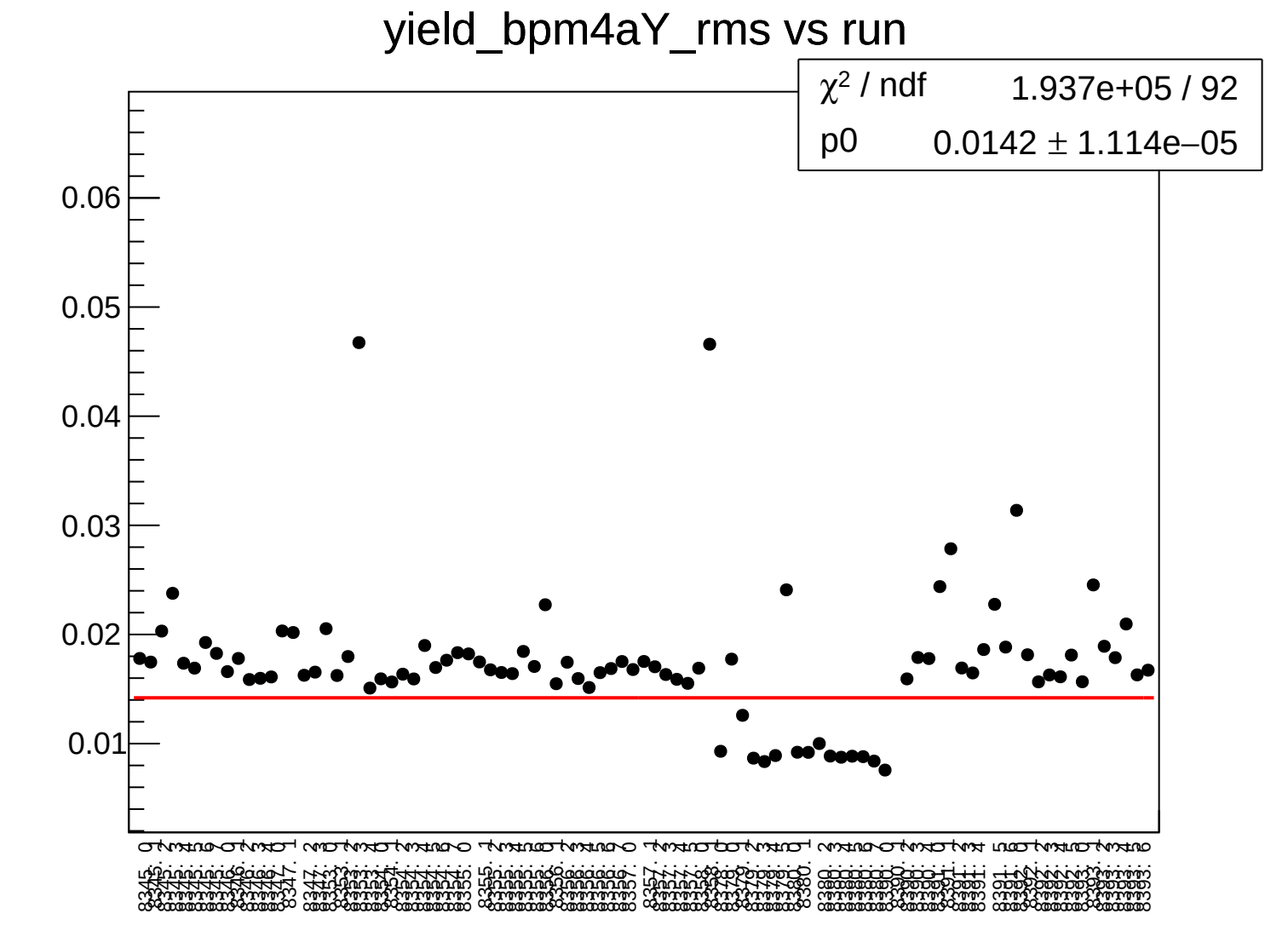

yield_bpm4aX_mean vs run
χ² / ndf 6.488e+04 / 92
p0 −0.8518 ± 5.43e−05
pull
Entries 93
Mean −177
Std Dev 0

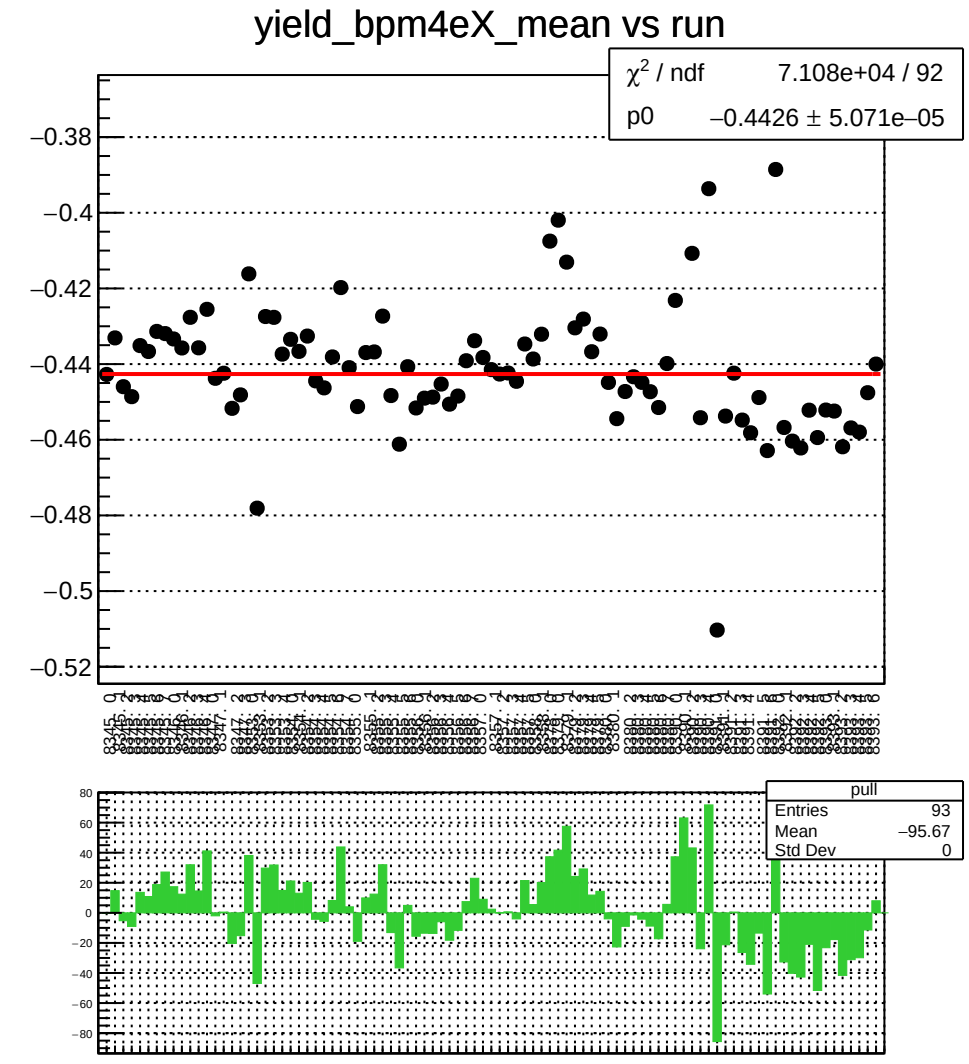

pull1D
Entries 93
Mean 0.2287
Std Dev 4.341

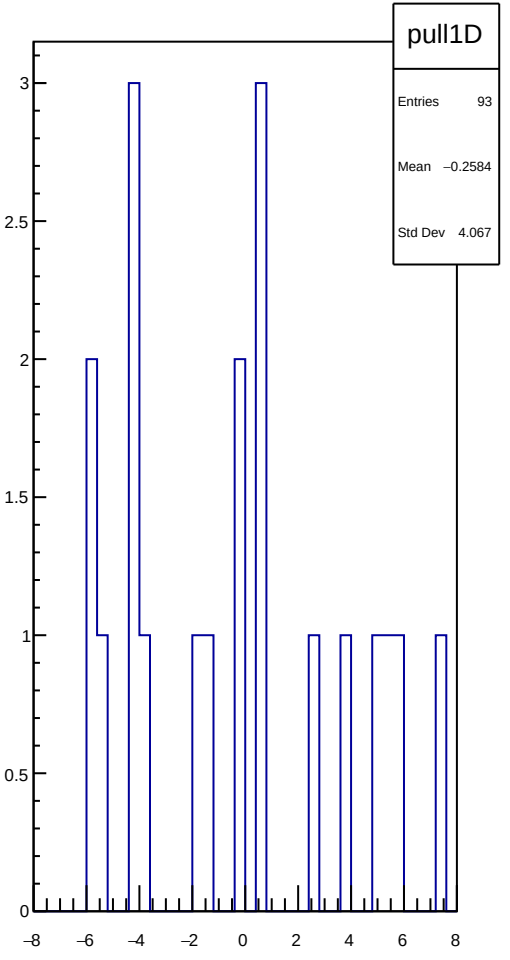

yield_bpm4aX_rms vs run
χ² / ndf 4.469e+04 / 92
p0 0.05114 ± 3.839e–05
0.1
0.09
0.08
0.07
0.06
0.05
0.04

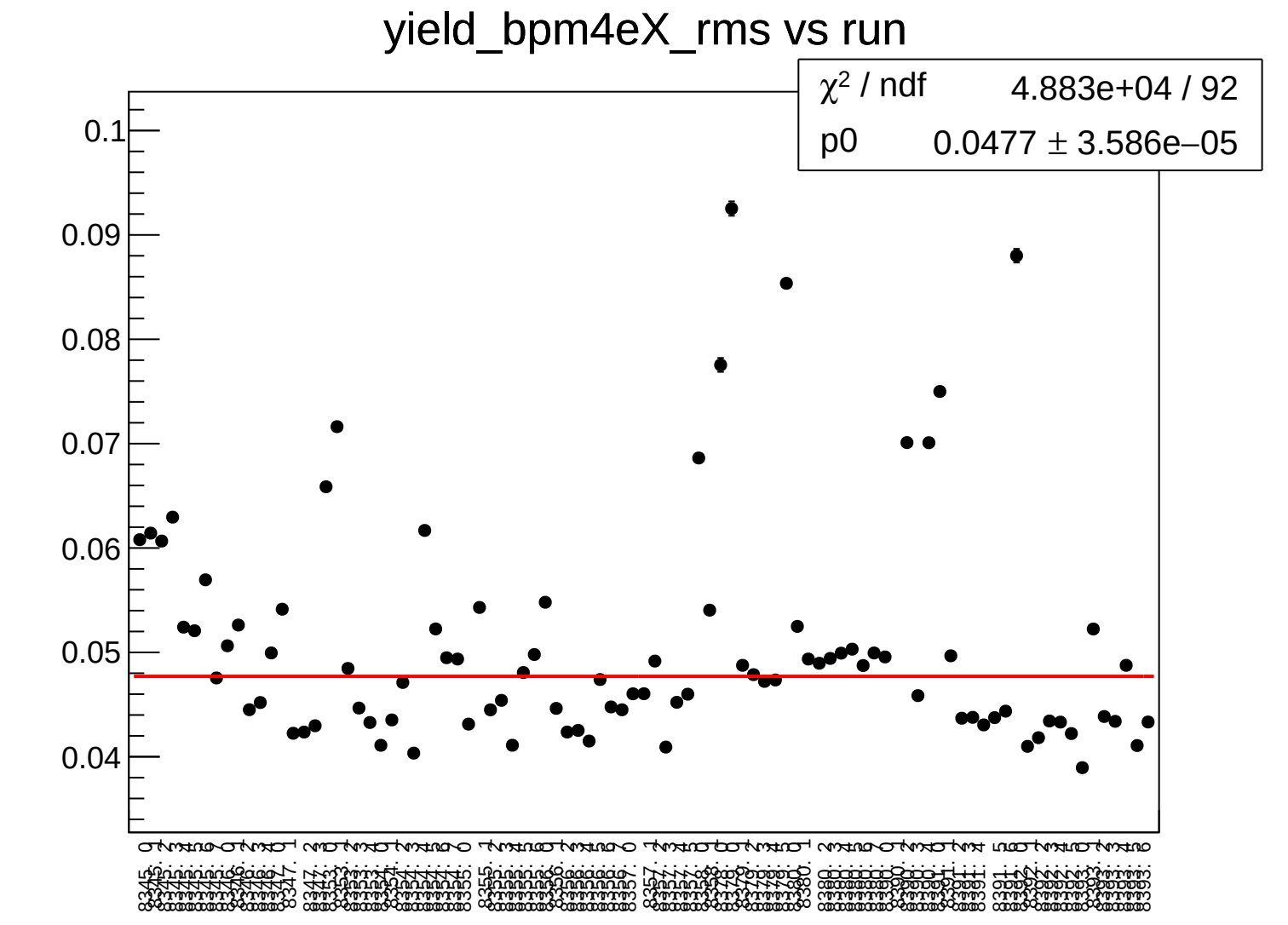

yield_bpm4aY_mean vs run
χ² / ndf 1.157e+05 / 92
p0 0.3589 ± 1.575e−05
0.37
0.36
0.35
0.34
0.33
pull
Entries 93
Mean 25.43
Std Dev 43.42
100
50
0
−50
−100

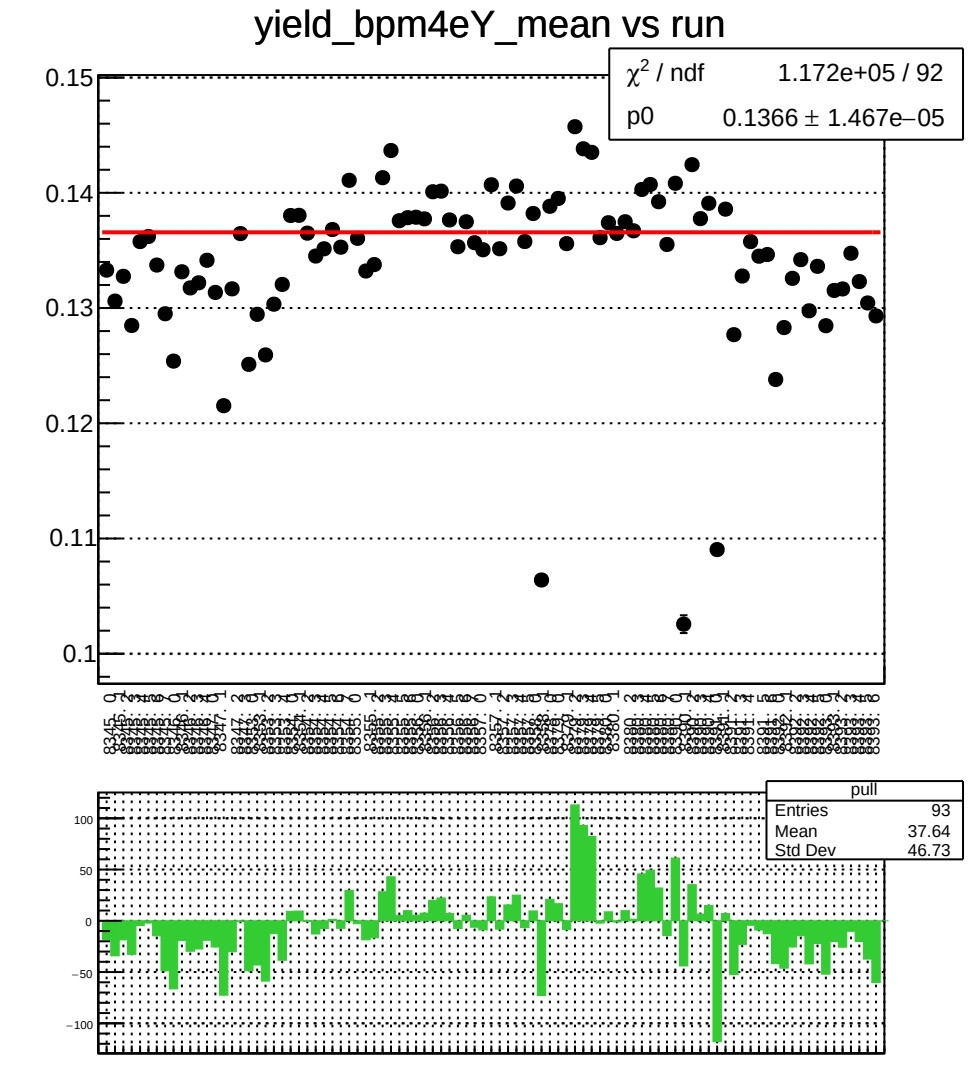

pull1D
Entries 93
Mean 0.7634
Std Dev 4.548
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

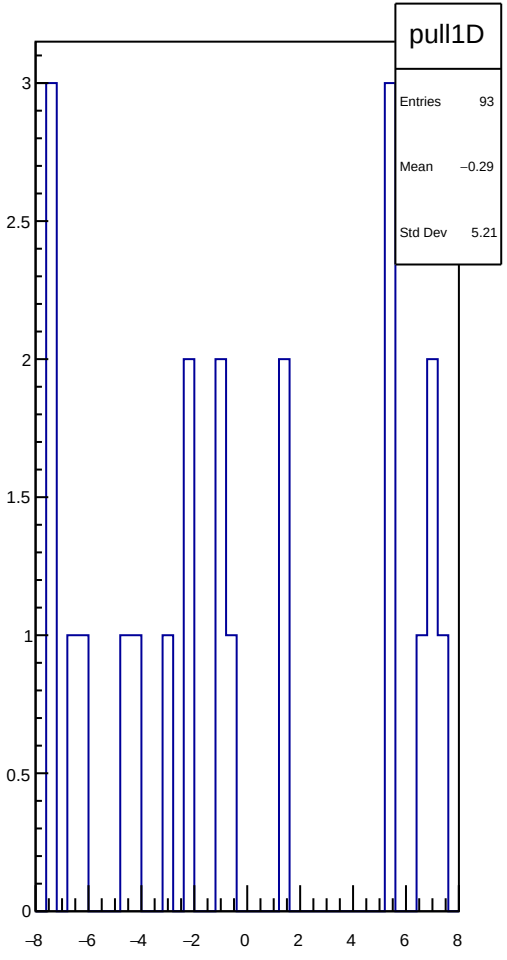

yield_bpm4aY_rms vs run
χ² / ndf 1.937e+05 / 92
p0 0.0142 ± 1.114e−05
0.06
0.05
0.04
0.03
0.02
0.01

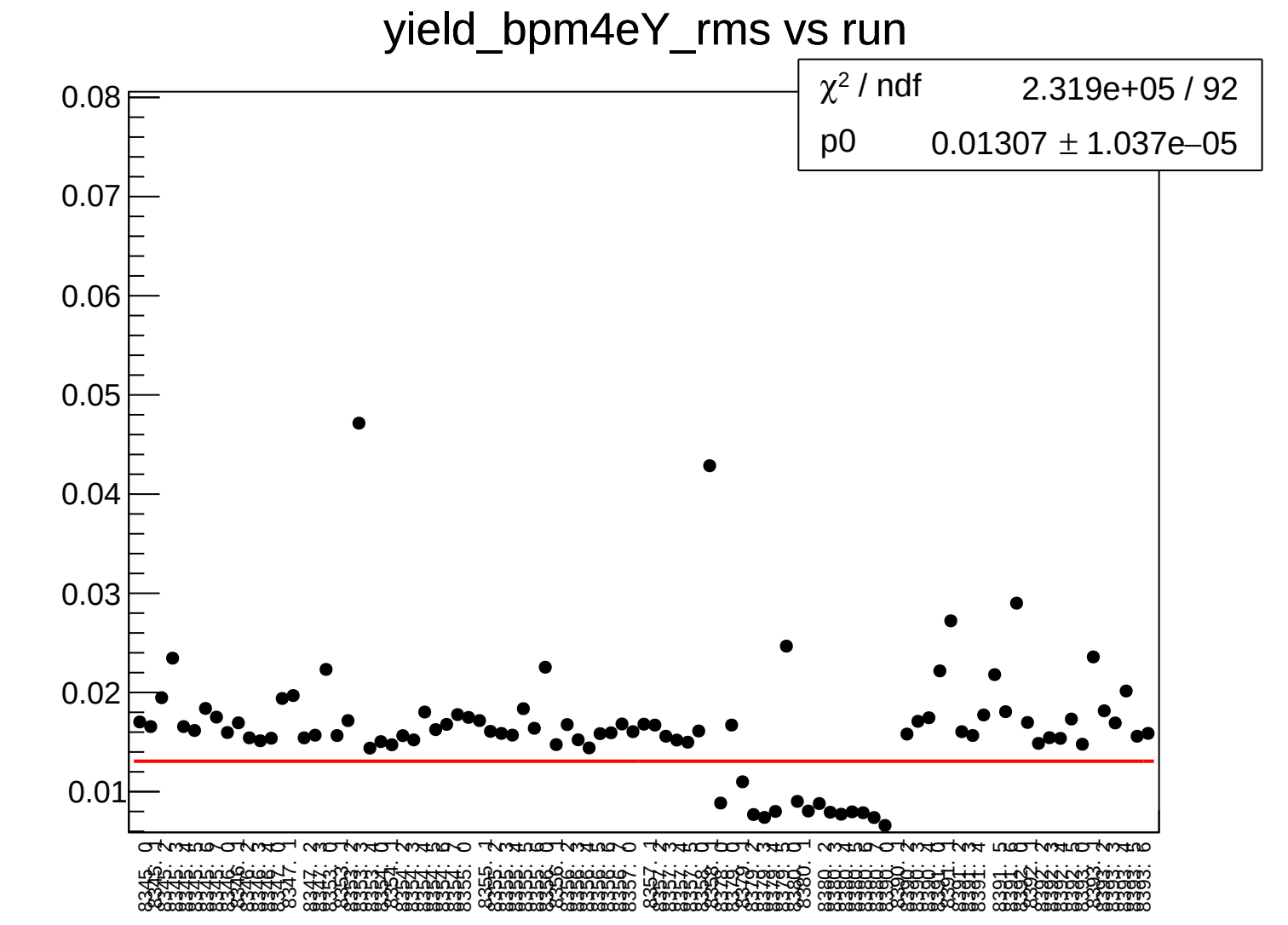

yield_bpm4eX_mean vs run
χ² / ndf 7.108e+04 / 92
p0 −0.4426 ± 5.071e−05
−0.38
−0.4
−0.42
−0.44
−0.46
−0.48
−0.5
−0.52
pull
Entries 93
Mean −95.67
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80

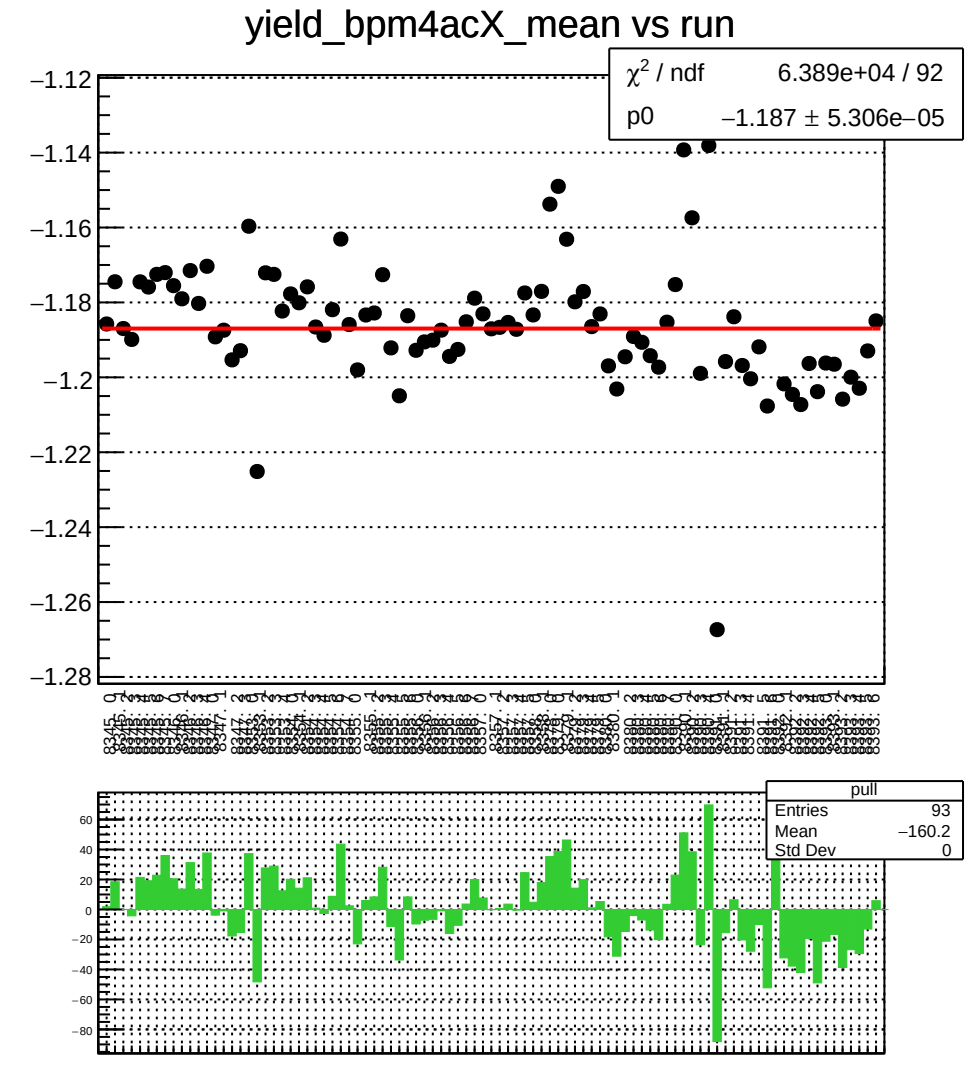

pull1D
Entries 93
Mean −0.2584
Std Dev 4.067
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

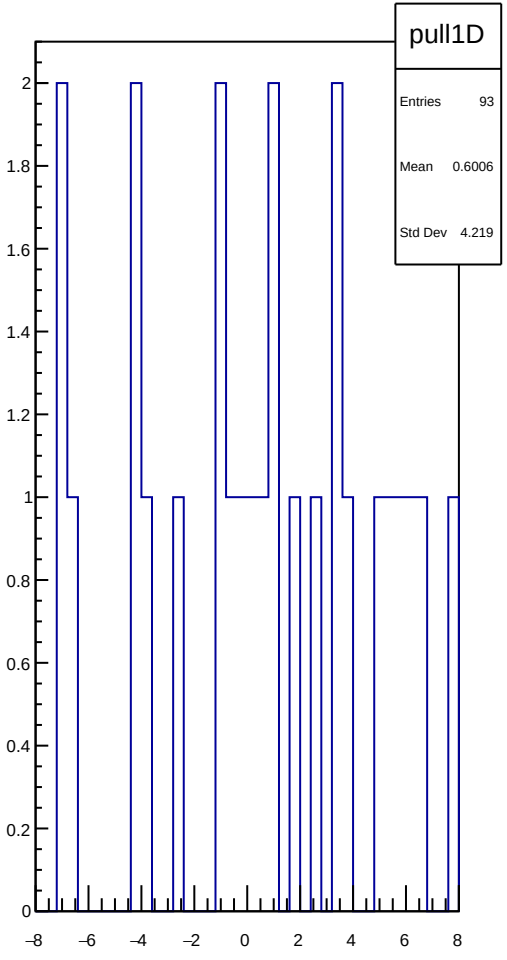

yield_bpm4eX_rms vs run
χ² / ndf 4.883e+04 / 92
p0 0.0477 ± 3.586e−05
0.1
0.09
0.08
0.07
0.06
0.05
0.04

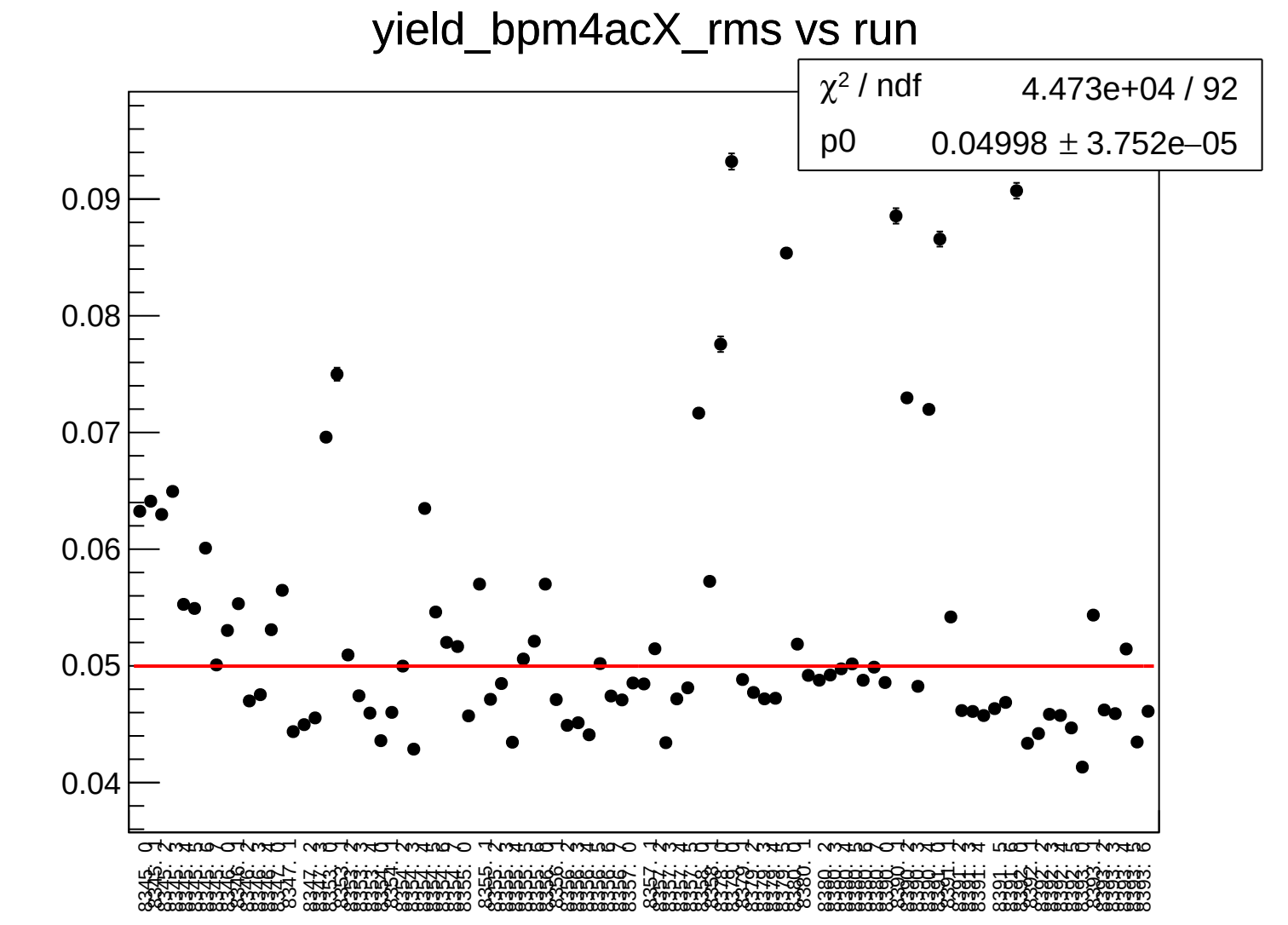

yield_bpm4eY_mean vs run
χ² / ndf 1.172e+05 / 92
p0 0.1366 ± 1.467e−05
0.15
0.14
0.13
0.12
0.11
0.1
pull
Entries 93
Mean 37.64
Std Dev 46.73
100
50
0
−50
−100

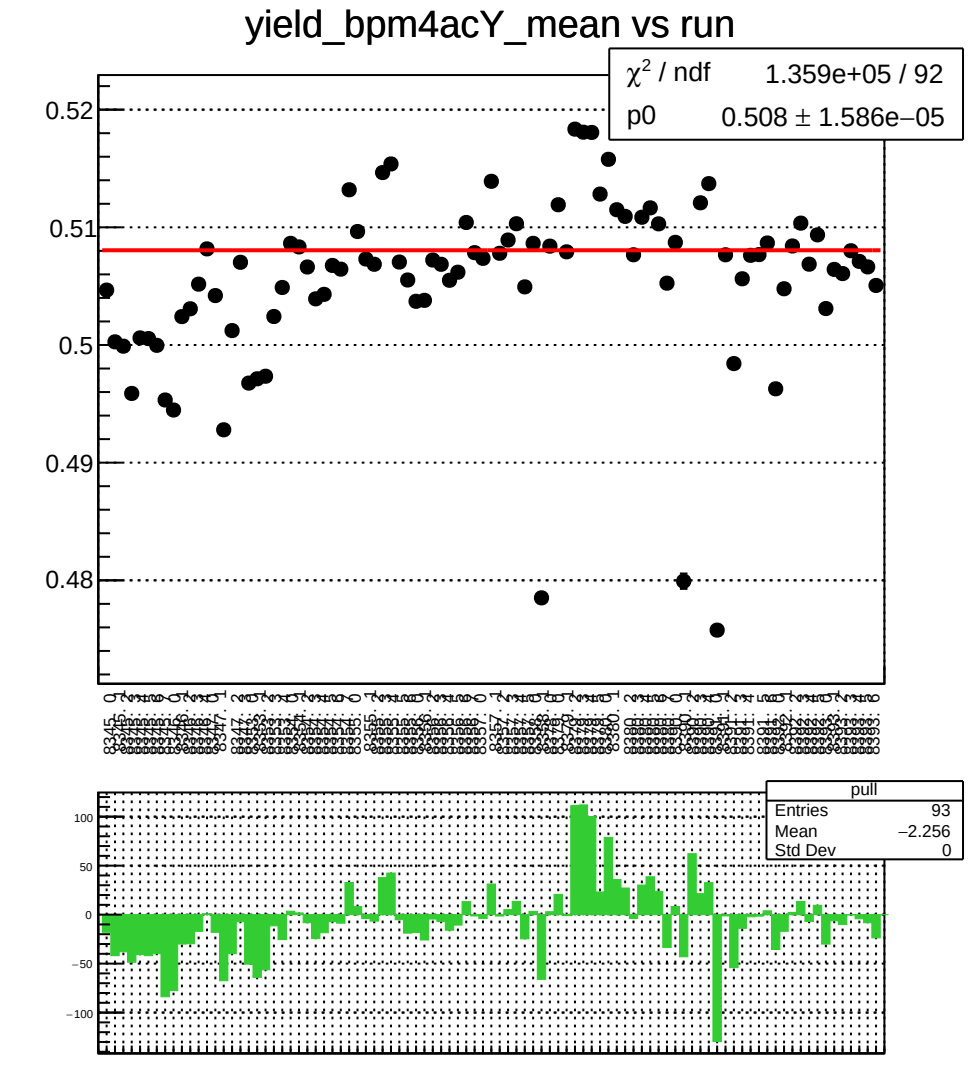

pull1D
Entries 93
Mean −0.29
Std Dev 5.21
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

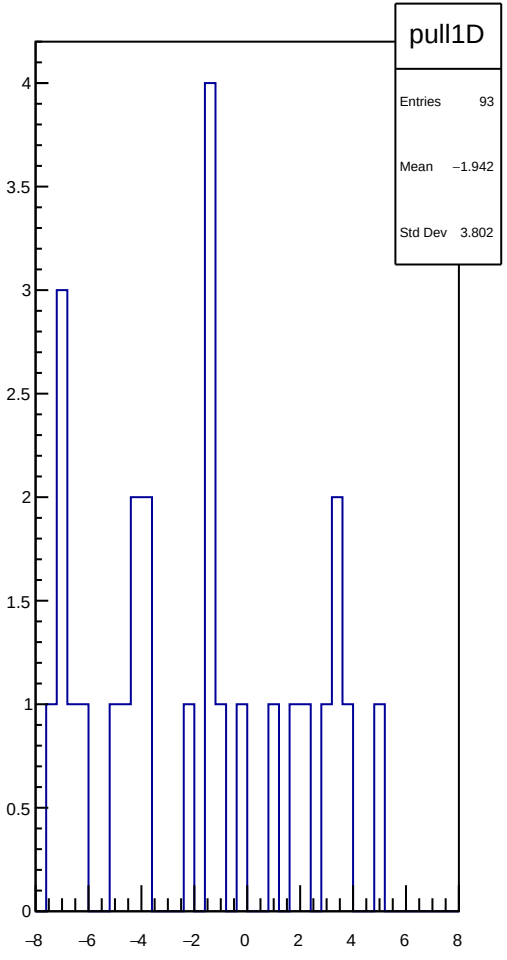

yield_bpm4eY_rms vs run
χ² / ndf 2.319e+05 / 92
p0 0.01307 ± 1.037e–05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

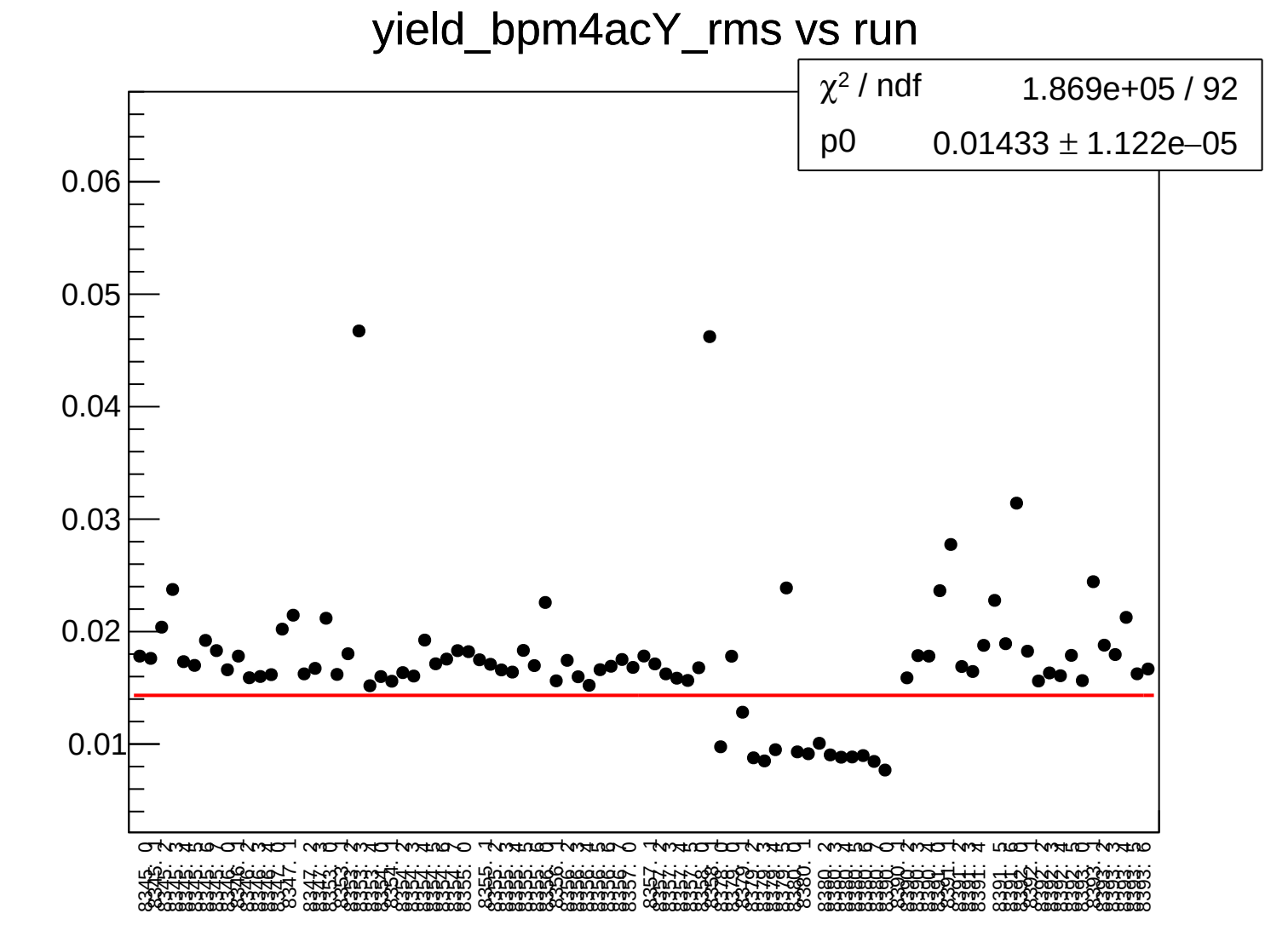

yield_bpm4acX_mean vs run
χ² / ndf 6.389e+04 / 92
p0 −1.187 ± 5.306e−05
pull
Entries 93
Mean −160.2
Std Dev 0

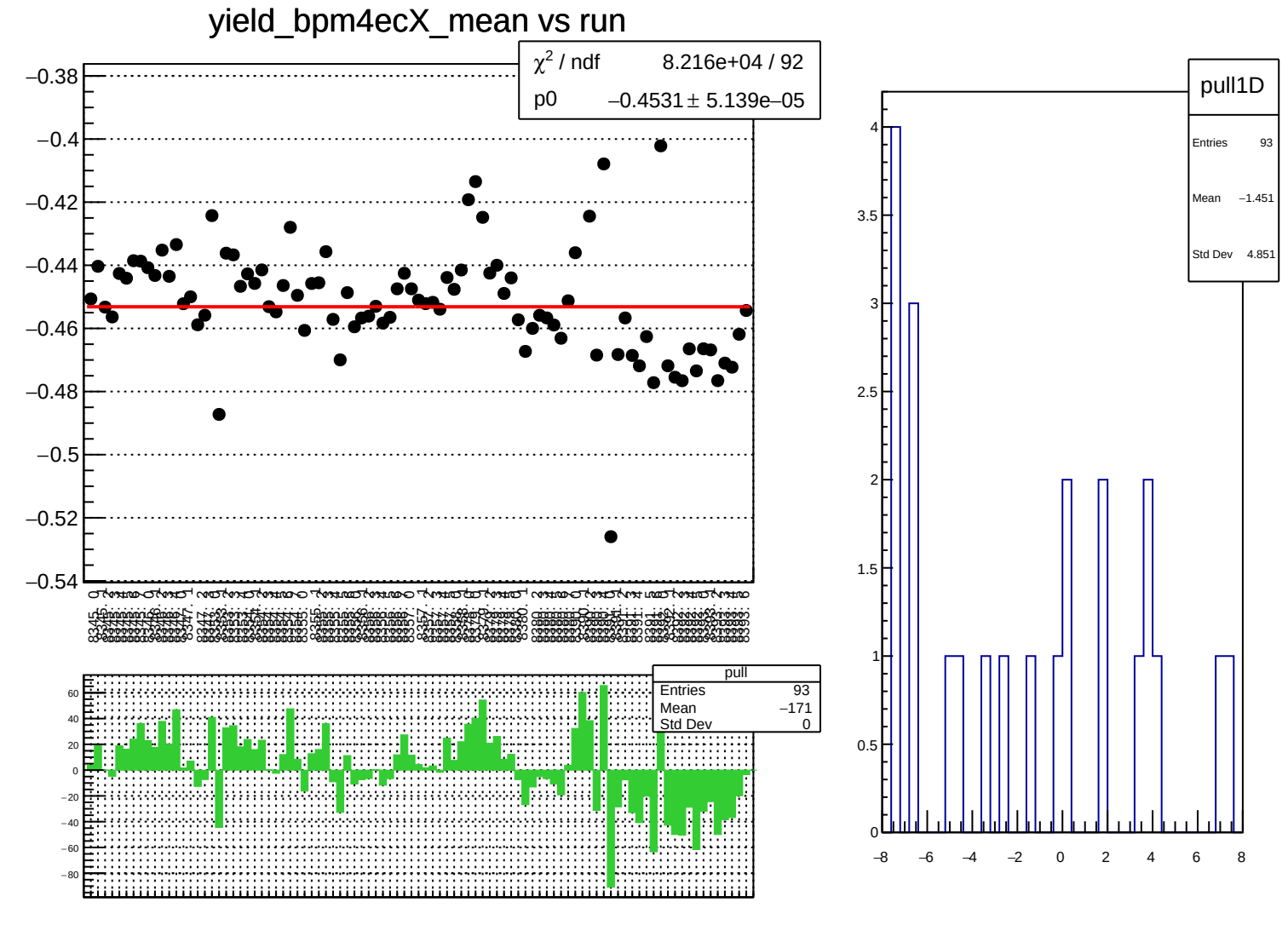

pull1D
Entries 93
Mean 0.6006
Std Dev 4.219

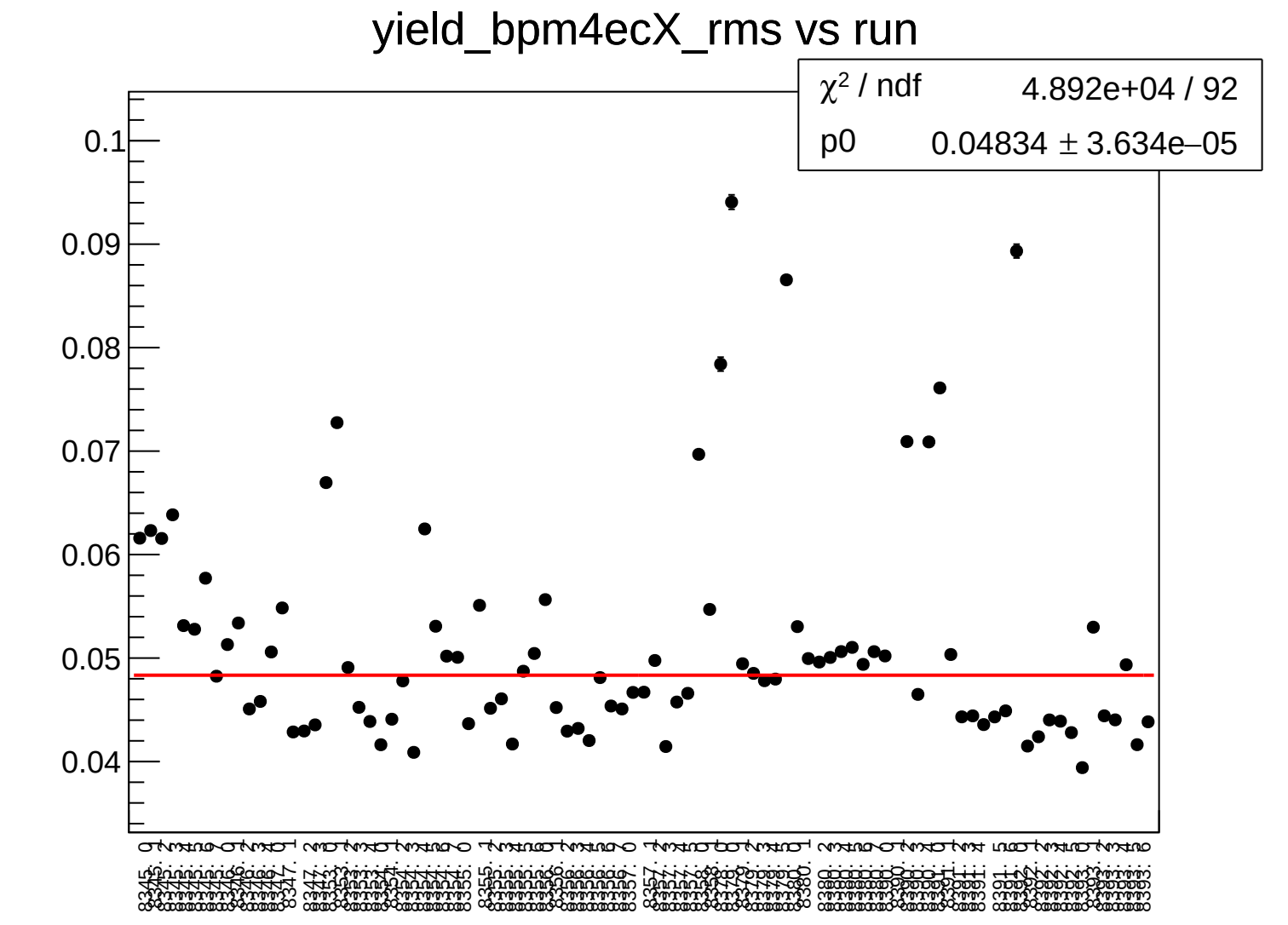

yield_bpm4acX_rms vs run
χ² / ndf 4.473e+04 / 92
p0 0.04998 ± 3.752e–05
0.09
0.08
0.07
0.06
0.05
0.04

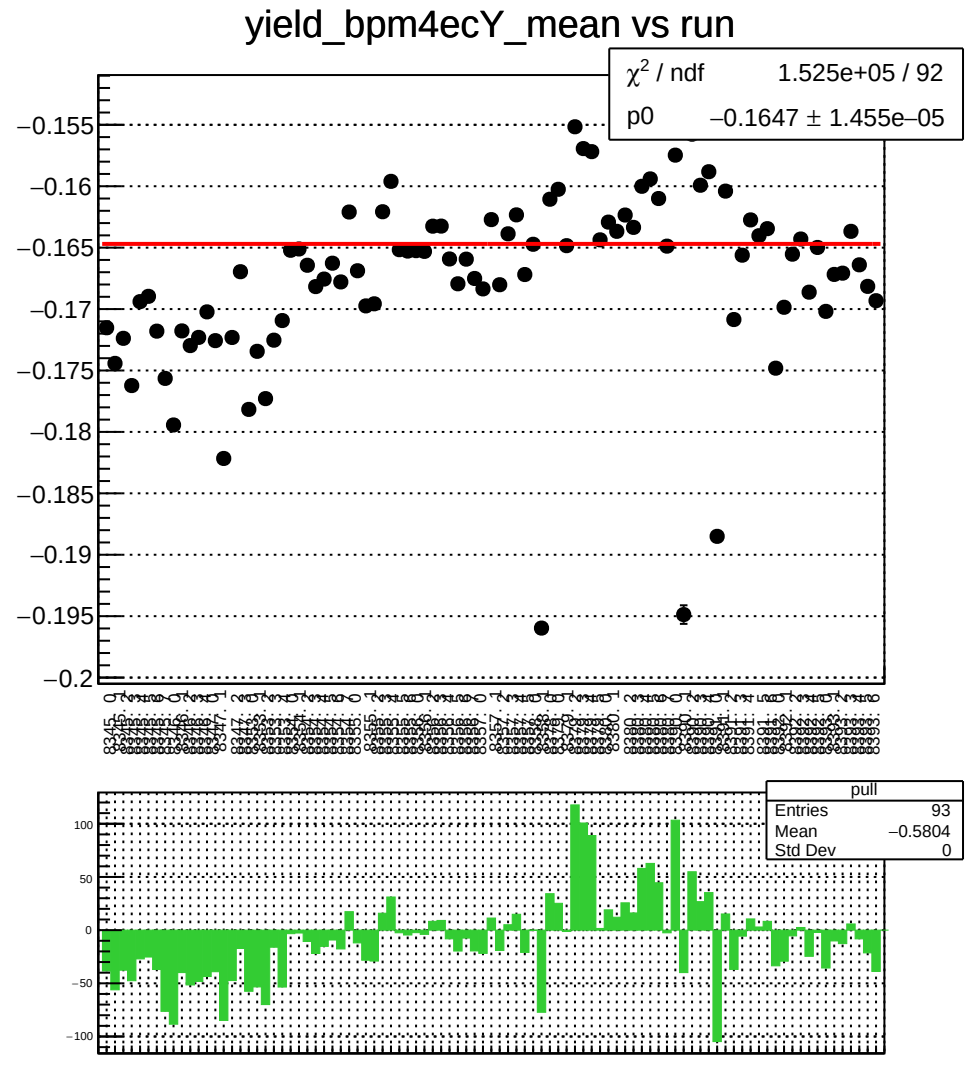

yield_bpm4acY_mean vs run
χ² / ndf 1.359e+05 / 92
p0 0.508 ± 1.586e−05
0.52
0.51
0.5
0.49
0.48
pull
Entries 93
Mean −2.256
Std Dev 0
100
50
0
−50
−100

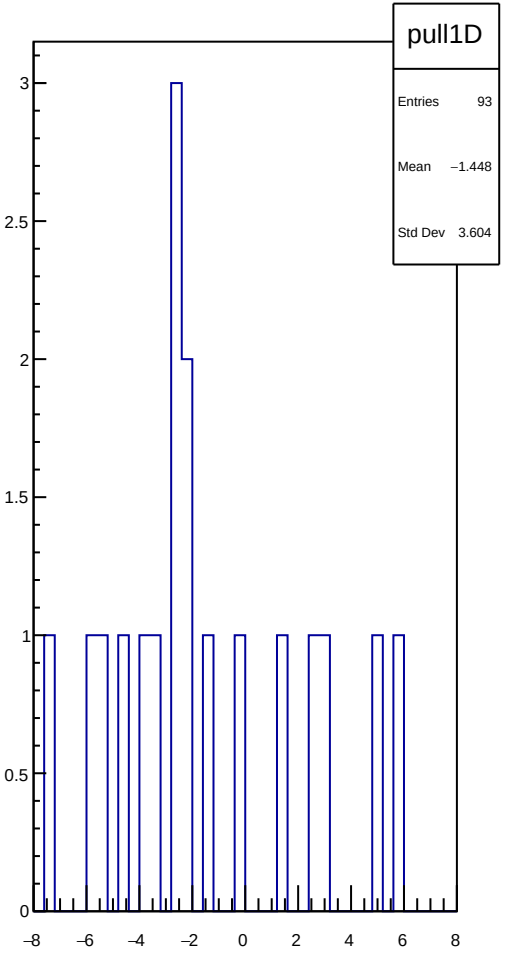

pull1D
Entries 93
Mean −1.942
Std Dev 3.802
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

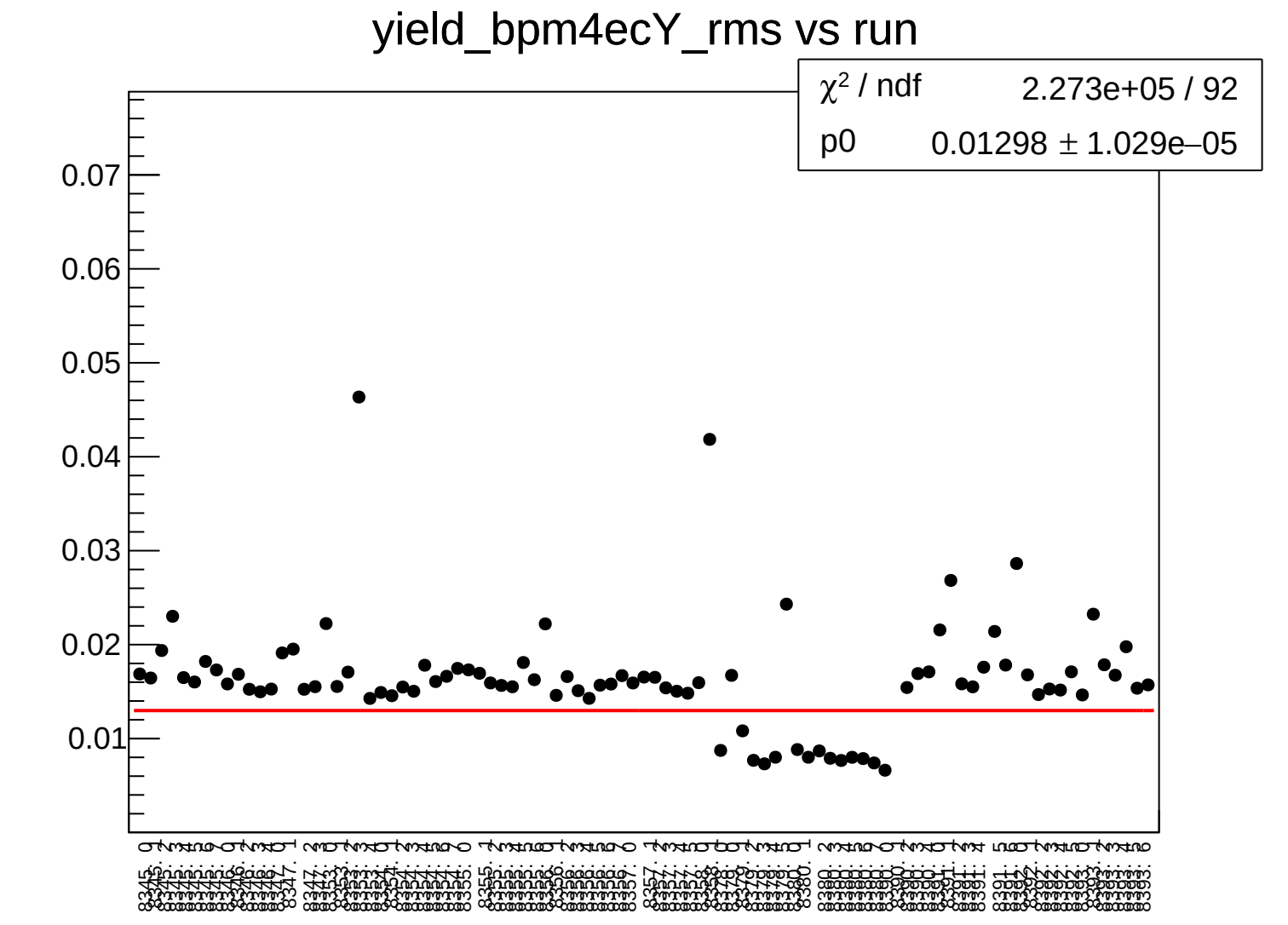

yield_bpm4acY_rms vs run
χ² / ndf 1.869e+05 / 92
p0 0.01433 ± 1.122e−05
0.06
0.05
0.04
0.03
0.02
0.01

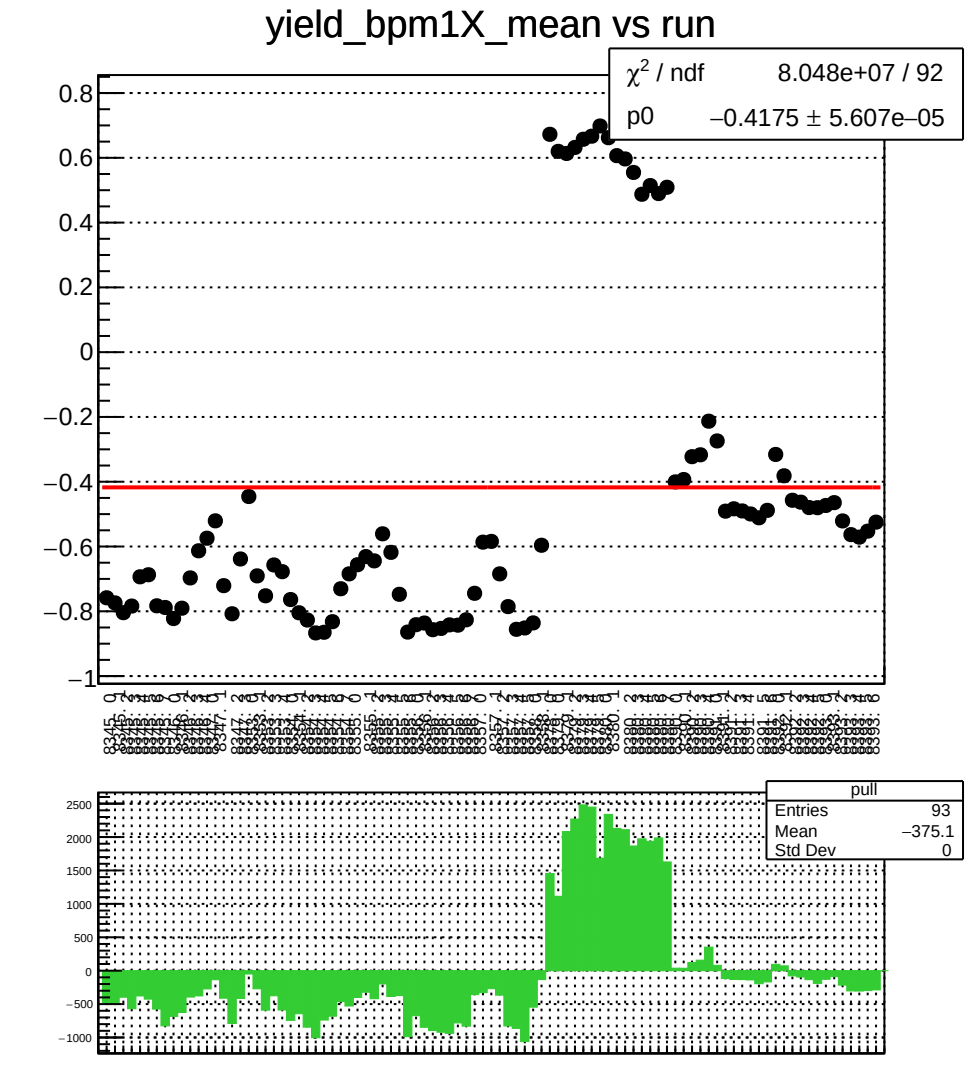

yield_bpm4ecX_mean vs run
χ² / ndf 8.216e+04 / 92
p0 −0.4531 ± 5.139e−05
pull
Entries 93
Mean −171
Std Dev 0
pull1D
Entries 93
Mean −1.451
Std Dev 4.851

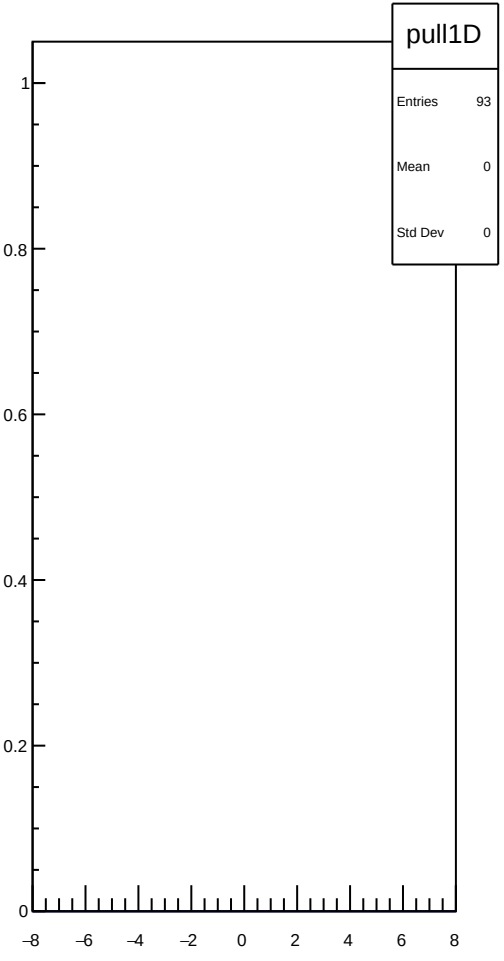

yield_bpm4ecX_rms vs run
χ² / ndf 4.892e+04 / 92
p0 0.04834 ± 3.634e–05
0.1
0.09
0.08
0.07
0.06
0.05
0.04

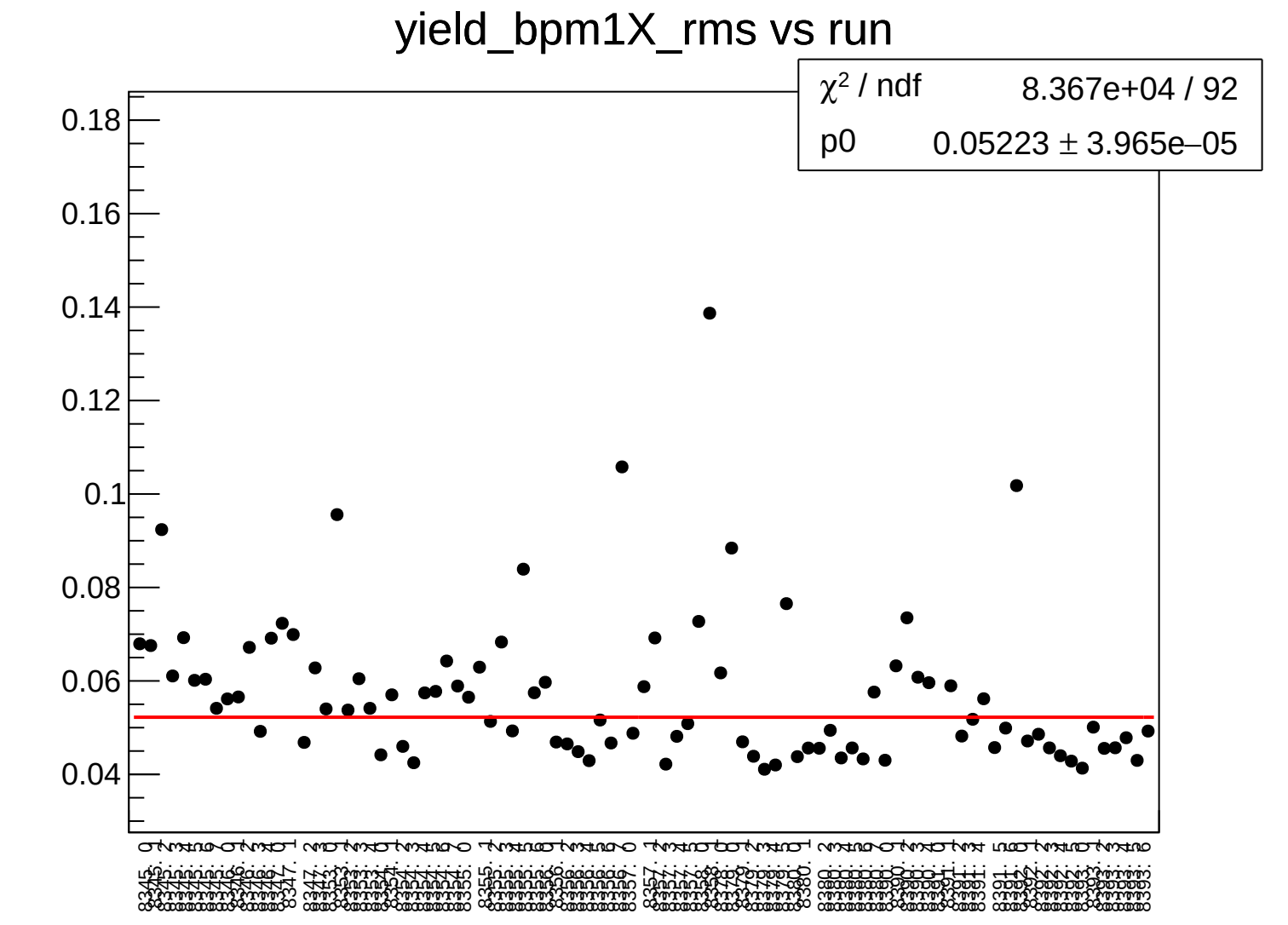

yield_bpm4ecY_mean vs run
χ² / ndf 1.525e+05 / 92
p0 −0.1647 ± 1.455e−05
−0.155
−0.16
−0.165
−0.17
−0.175
−0.18
−0.185
−0.19
−0.195
−0.2
pull
Entries 93
Mean −0.5804
Std Dev 0
100
50
0
−50
−100

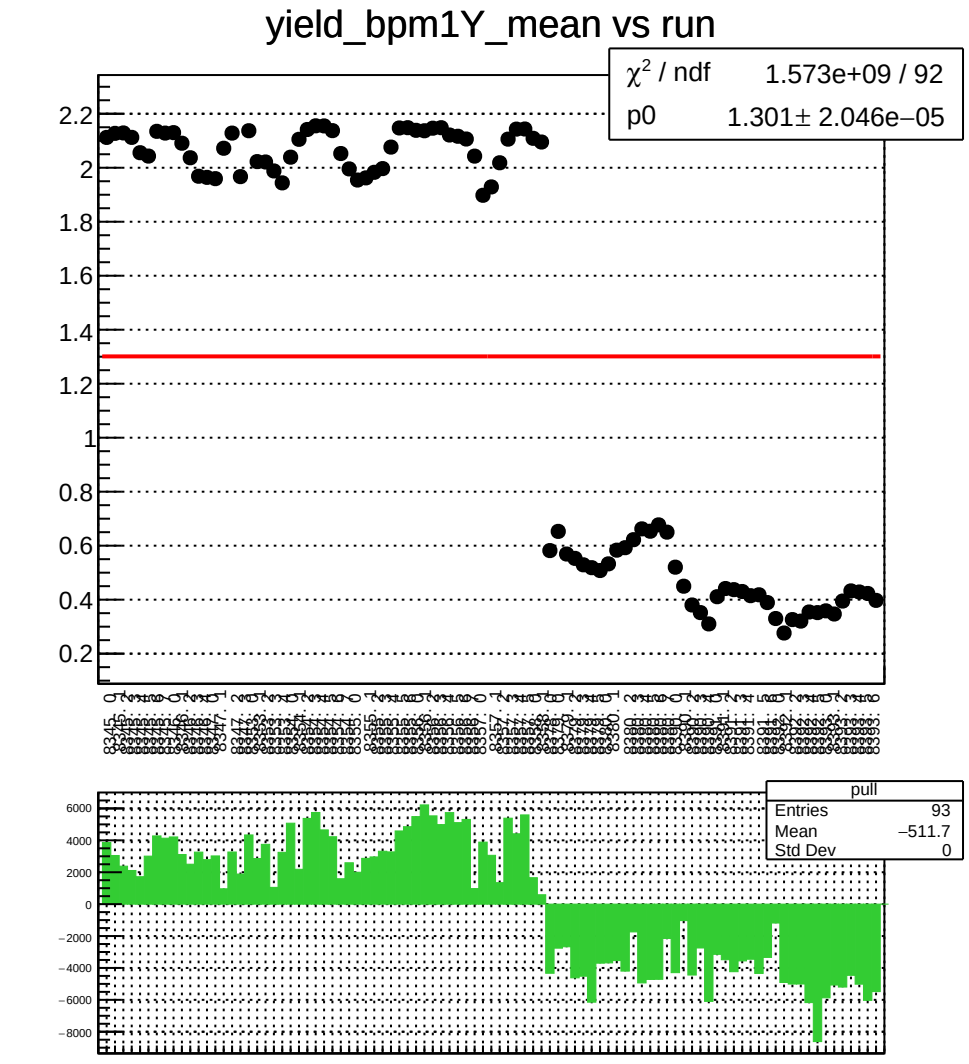

pull1D
Entries 93
Mean −1.448
Std Dev 3.604
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

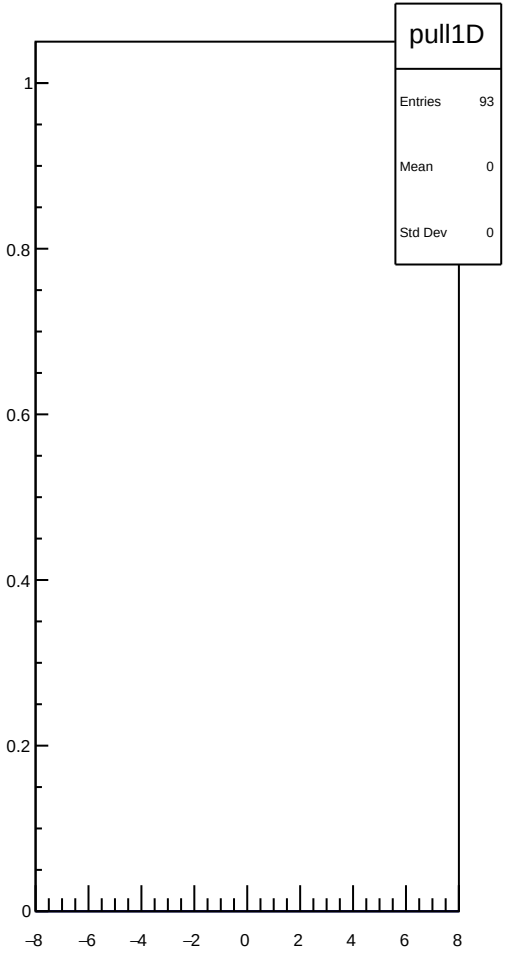

yield_bpm4ecY_rms vs run
χ² / ndf 2.273e+05 / 92
p0 0.01298 ± 1.029e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

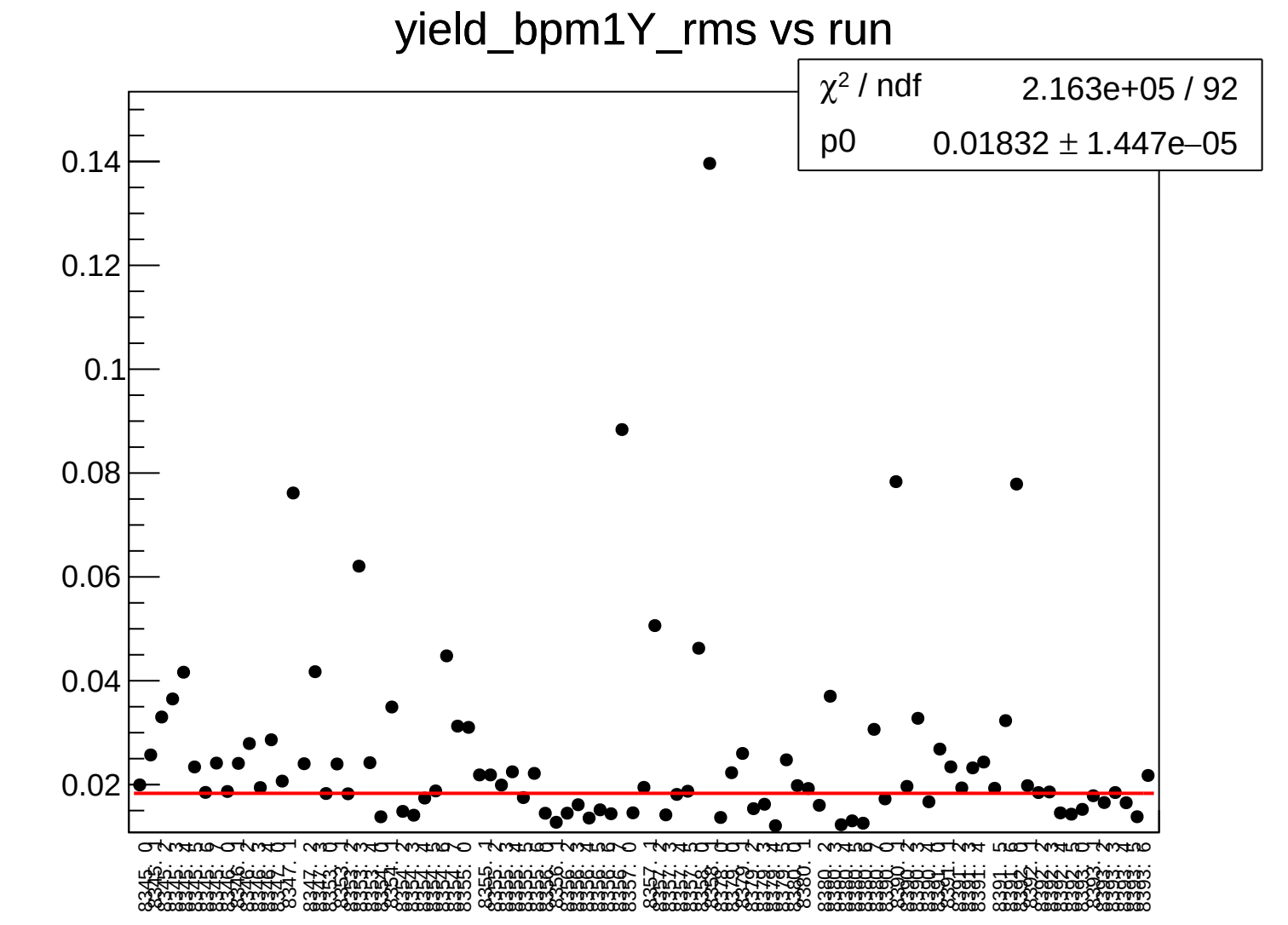

yield_bpm1X_mean vs run
χ² / ndf 8.048e+07 / 92
p0 −0.4175 ± 5.607e−05
pull
Entries 93
Mean −375.1
Std Dev 0

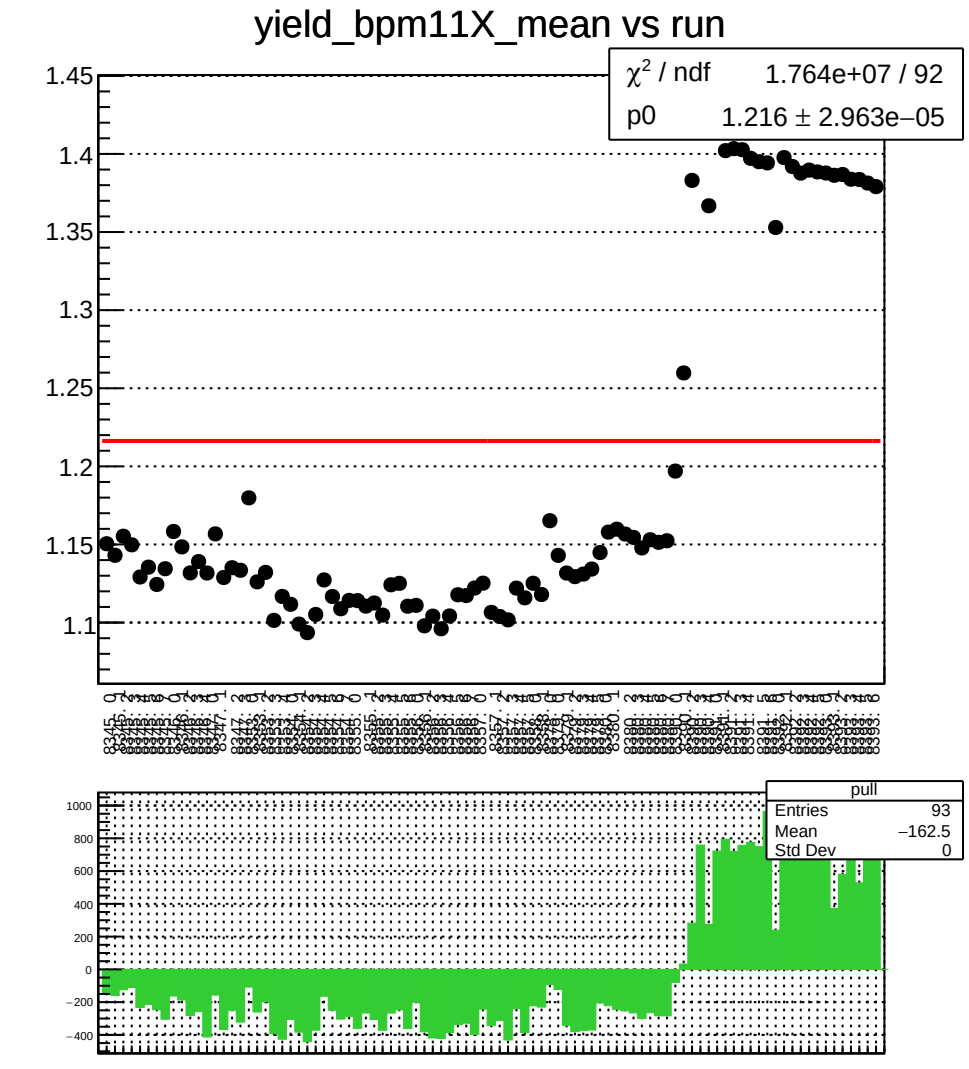

pull1D
Entries 93
Mean 0
Std Dev 0

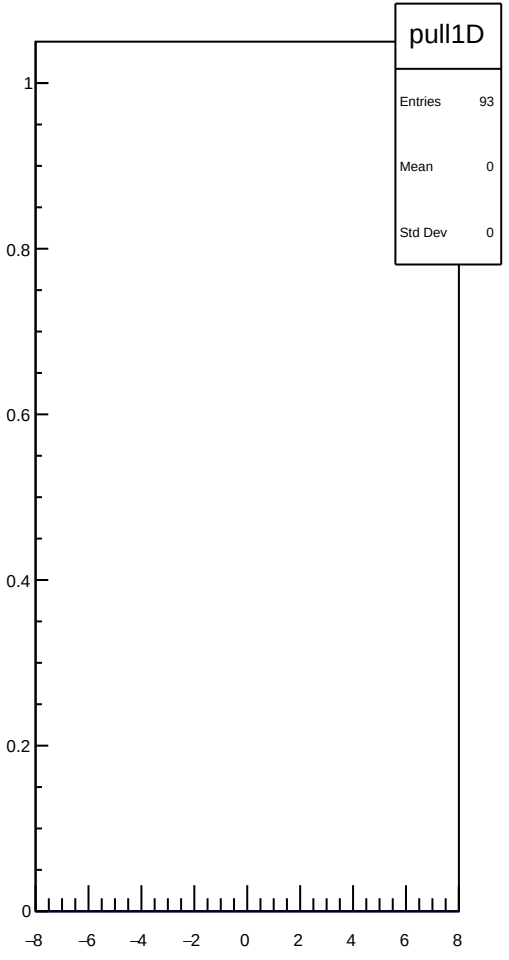

yield_bpm1X_rms vs run
χ² / ndf 8.367e+04 / 92
p0 0.05223 ± 3.965e−05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04

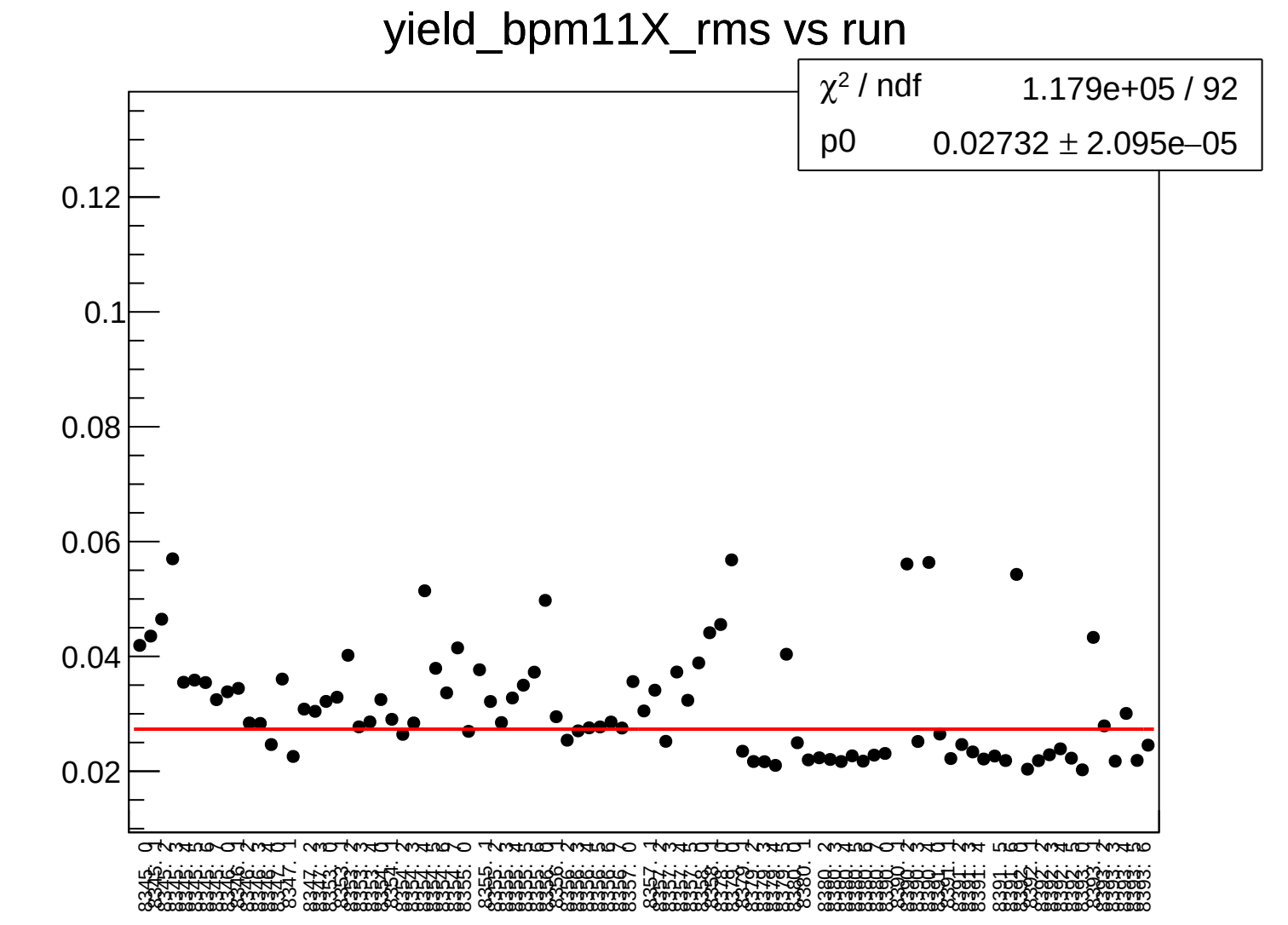

yield_bpm1Y_mean vs run
χ² / ndf 1.573e+09 / 92
p0 1.301± 2.046e−05
pull
Entries 93
Mean −511.7
Std Dev 0

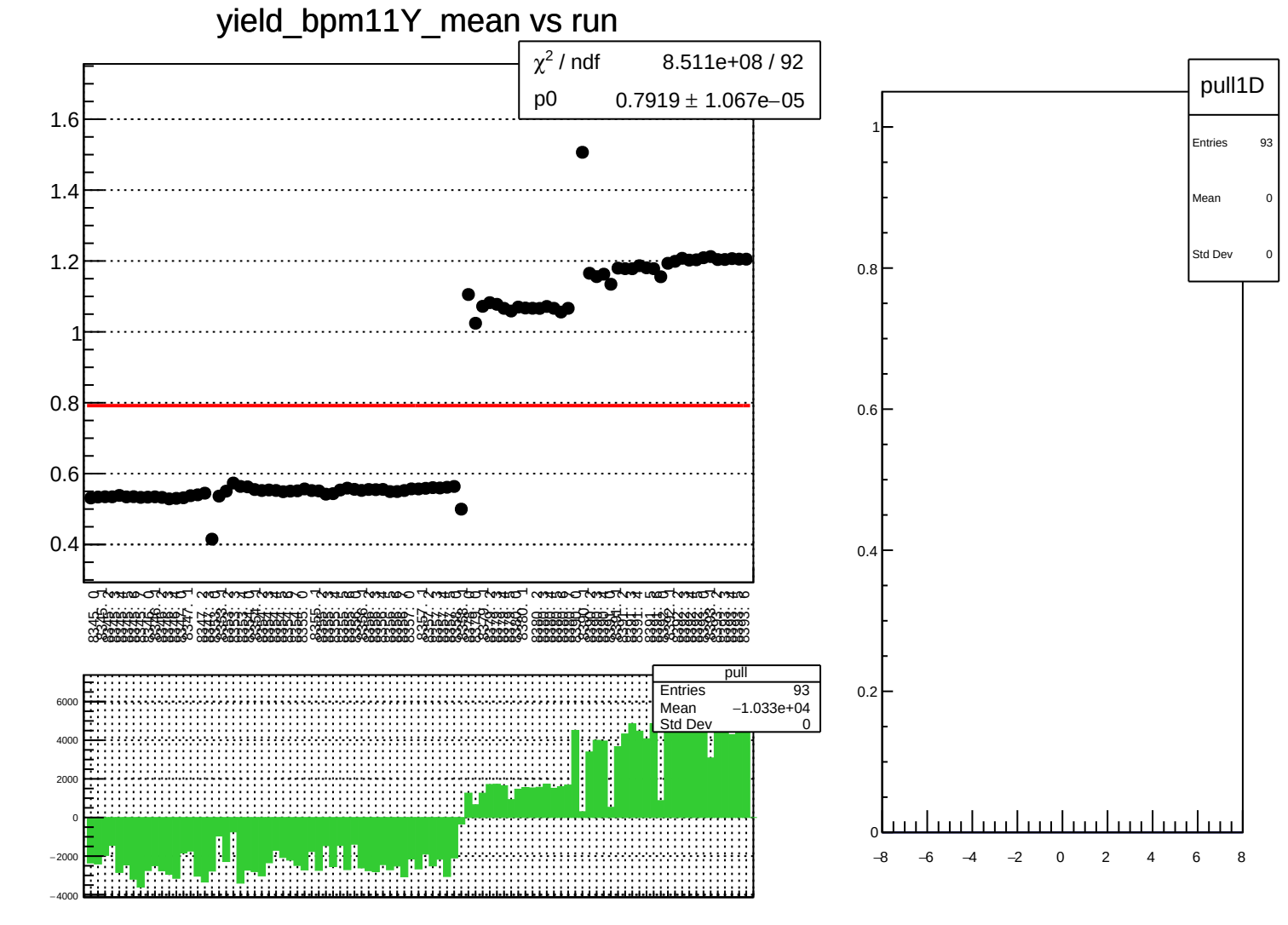

pull1D
Entries 93
Mean 0
Std Dev 0

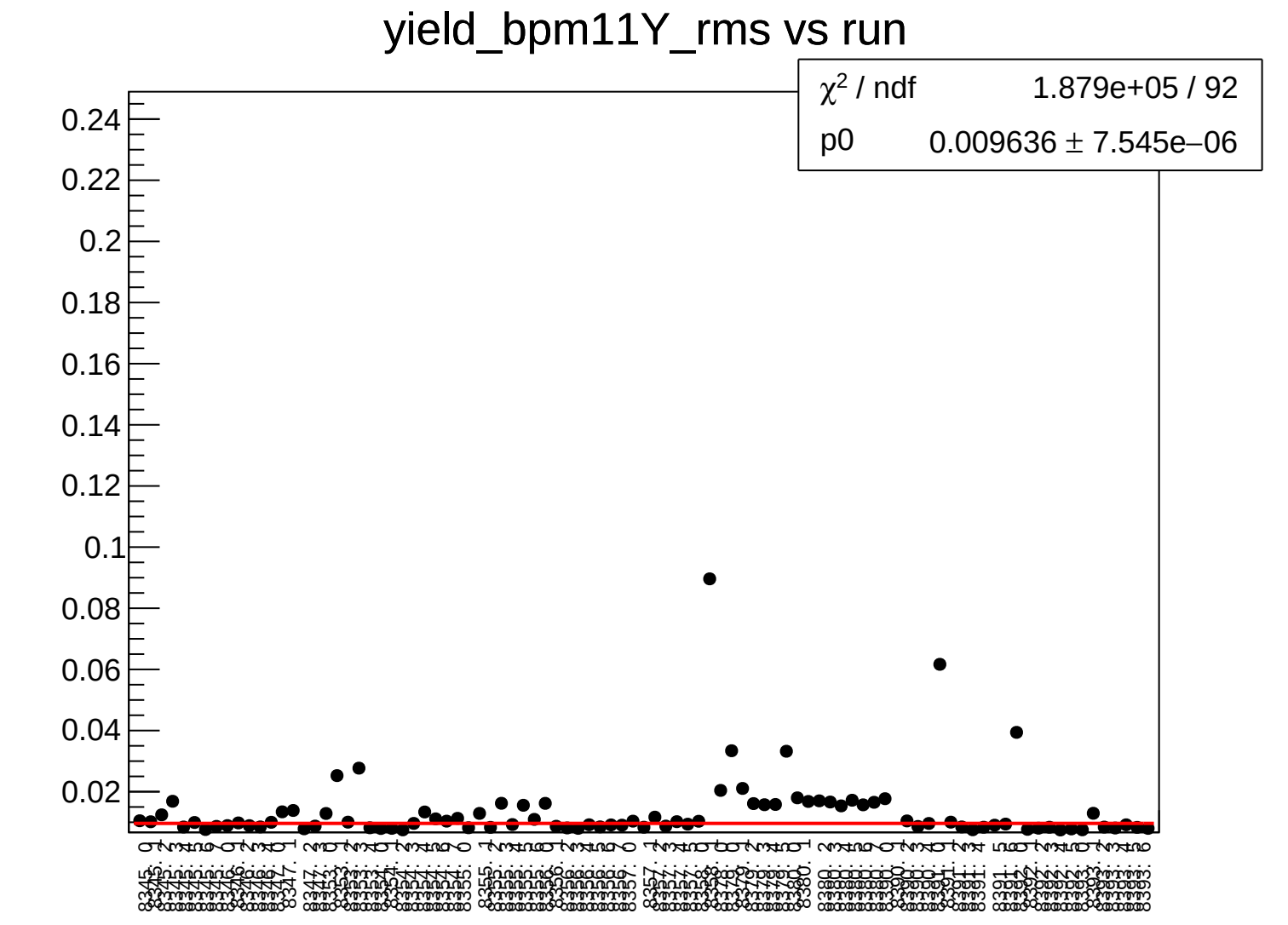

yield_bpm1Y_rms vs run
χ² / ndf 2.163e+05 / 92
p0 0.01832 ± 1.447e−05
0.14
0.12
0.1
0.08
0.06
0.04
0.02

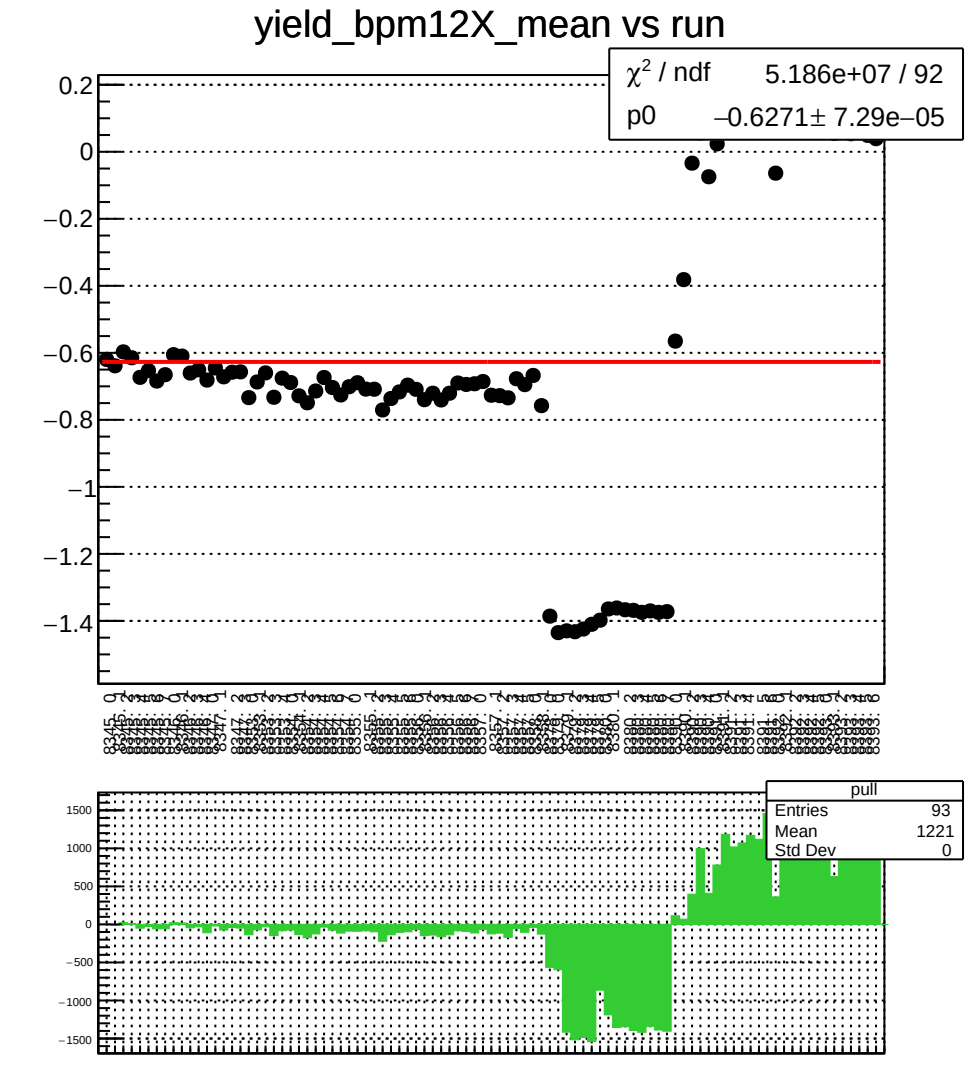

yield_bpm11X_mean vs run
χ² / ndf 1.764e+07 / 92
p0 1.216 ± 2.963e−05
1.45
1.4
1.35
1.3
1.25
1.2
1.15
1.1
pull
Entries 93
Mean −162.5
Std Dev 0
1000
800
600
400
200
0
−200
−400

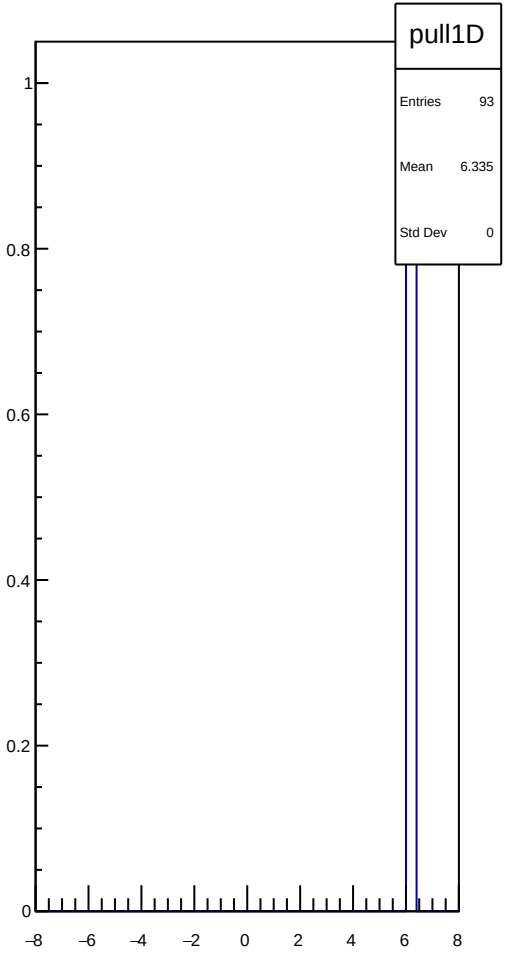

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

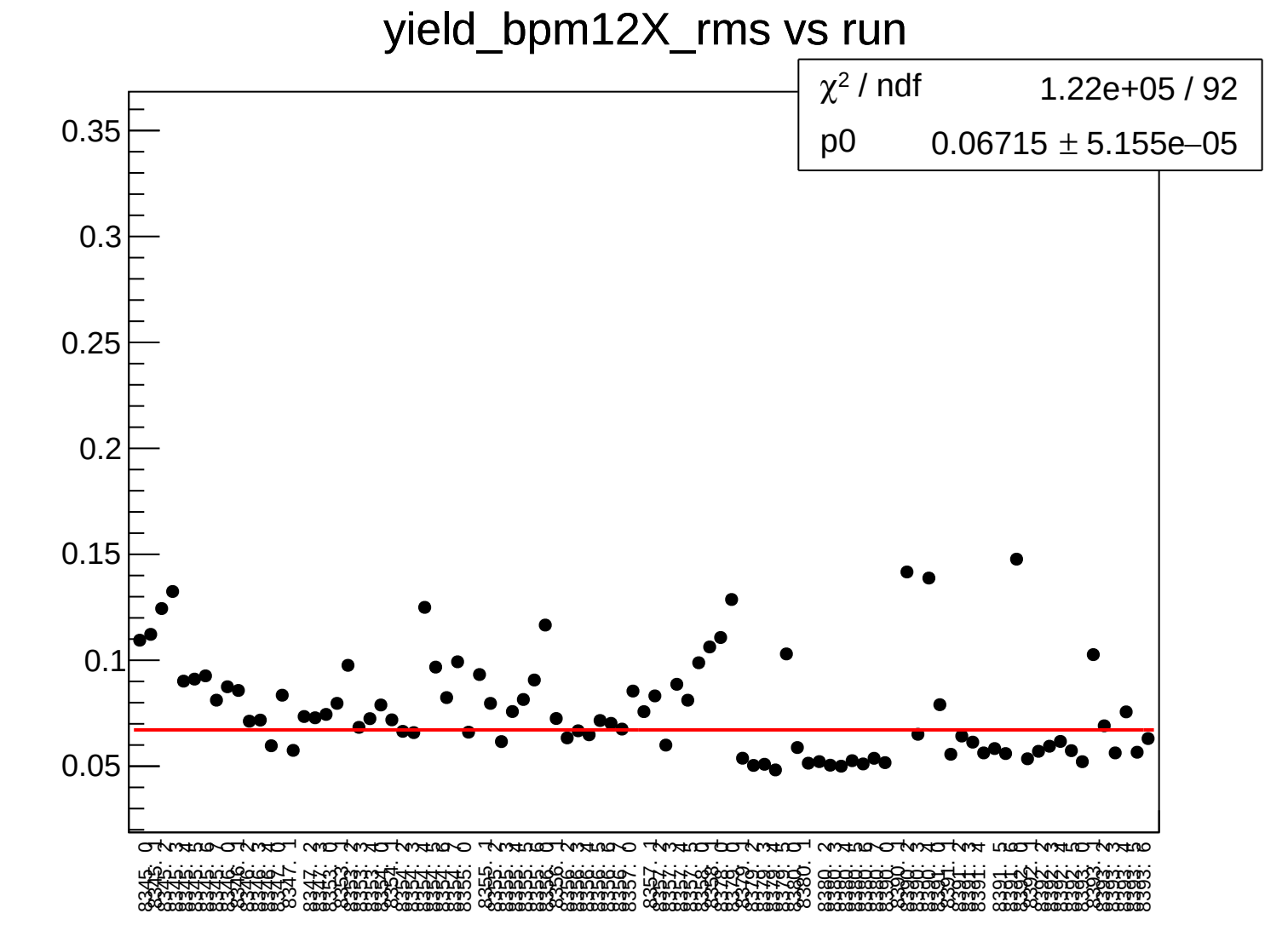

yield_bpm11X_rms vs run
χ² / ndf 1.179e+05 / 92
p0 0.02732 ± 2.095e–05
0.12
0.1
0.08
0.06
0.04
0.02

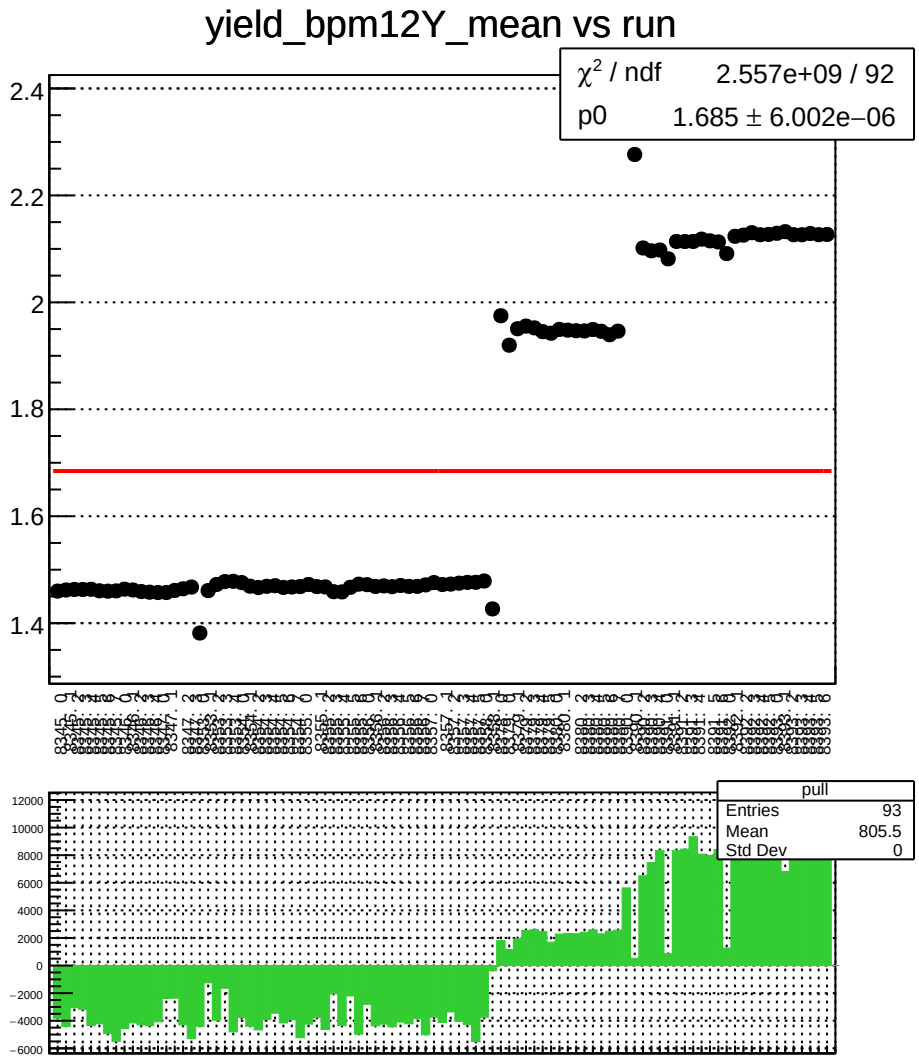

yield_bpm11Y_mean vs run
χ² / ndf 8.511e+08 / 92
p0 0.7919 ± 1.067e−05
1.6
1.4
1.2
1
0.8
0.6
0.4
pull
Entries 93
Mean −1.033e+04
Std Dev 0
6000
4000
2000
0
−2000
−4000
pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

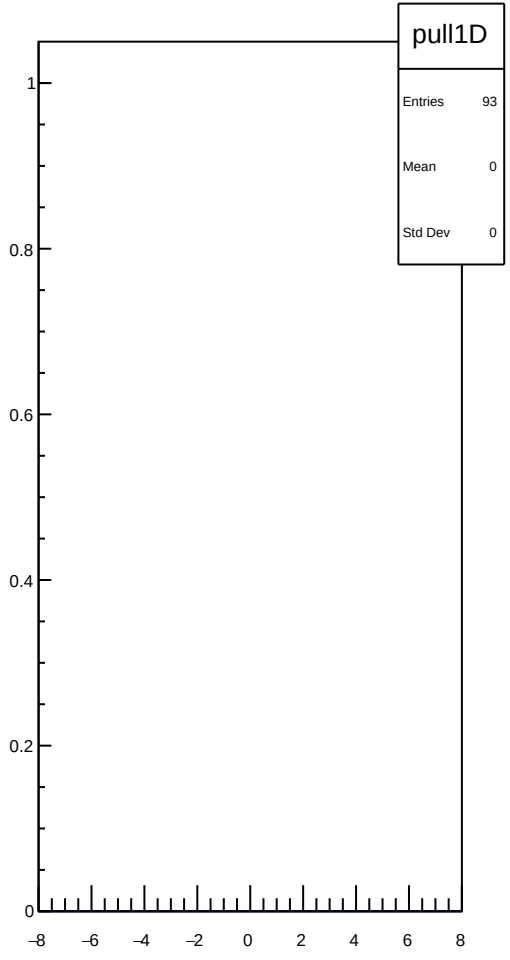

yield_bpm11Y_rms vs run
χ² / ndf 1.879e+05 / 92
p0 0.009636 ± 7.545e−06
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

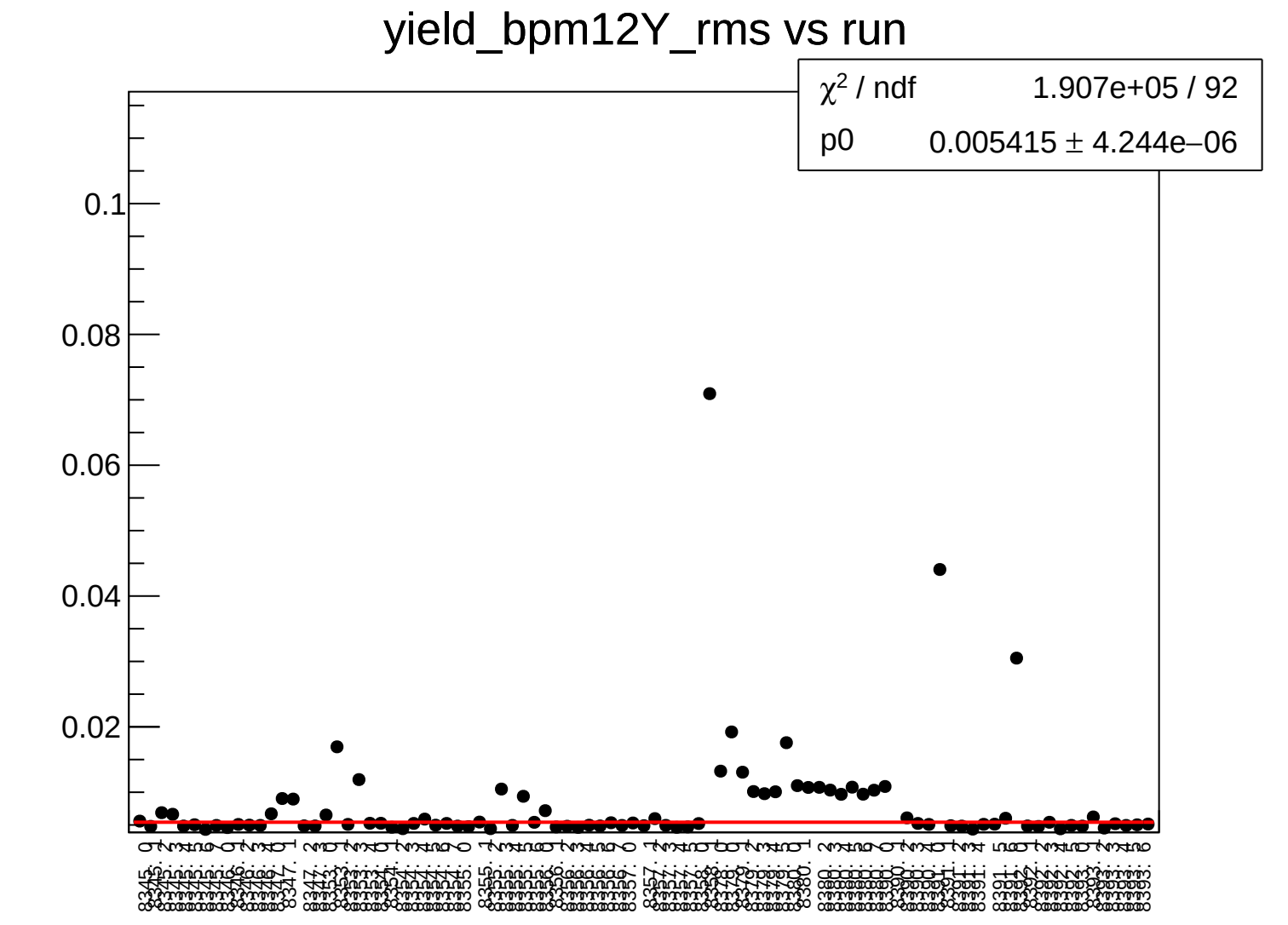

yield_bpm12X_mean vs run
χ² / ndf 5.186e+07 / 92
p0 −0.6271± 7.29e−05
pull
Entries 93
Mean 1221
Std Dev 0

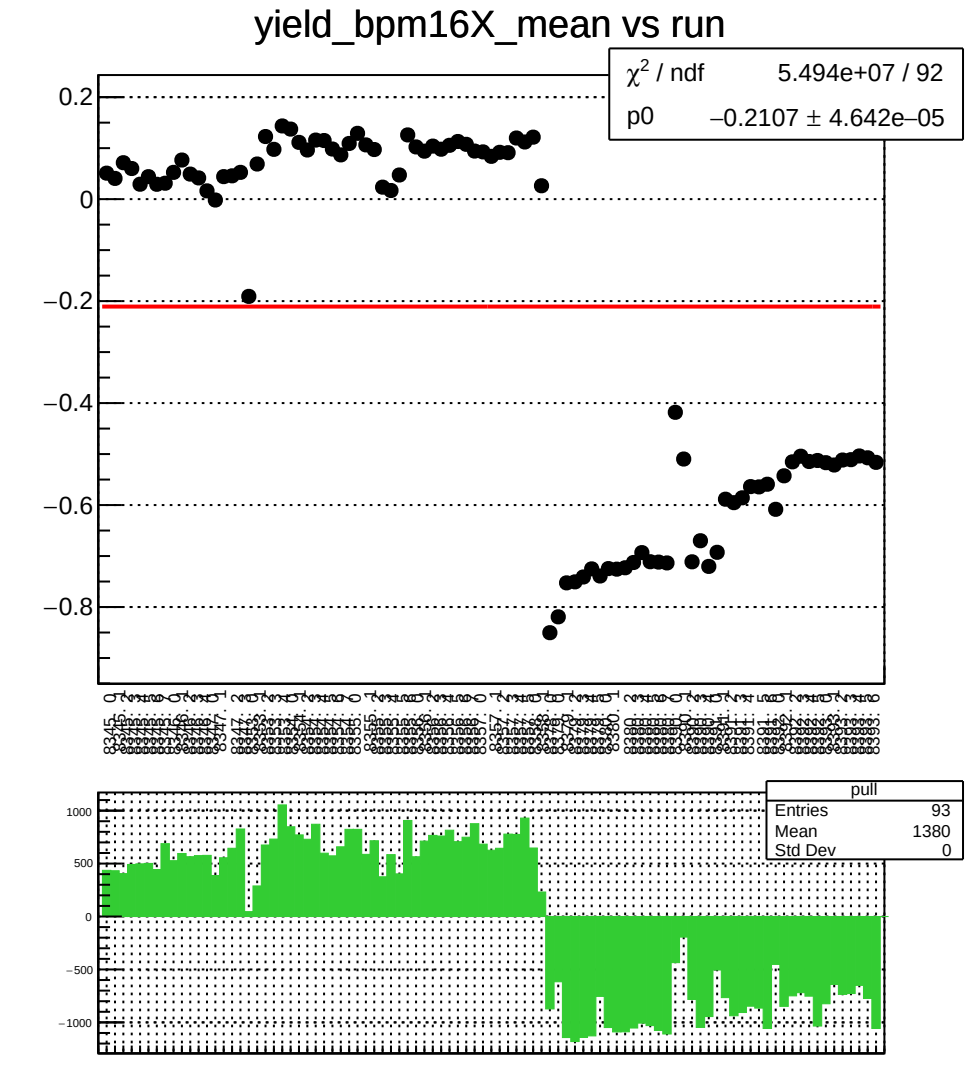

pull1D
Entries 93
Mean 6.335
Std Dev 0

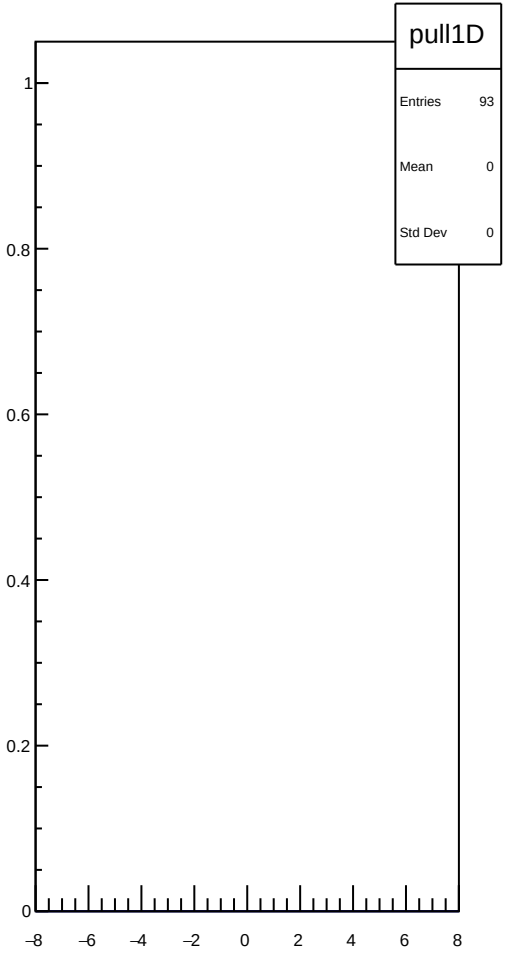

yield_bpm12X_rms vs run
χ² / ndf 1.22e+05 / 92
p0 0.06715 ± 5.155e−05
0.35
0.3
0.25
0.2
0.15
0.1
0.05

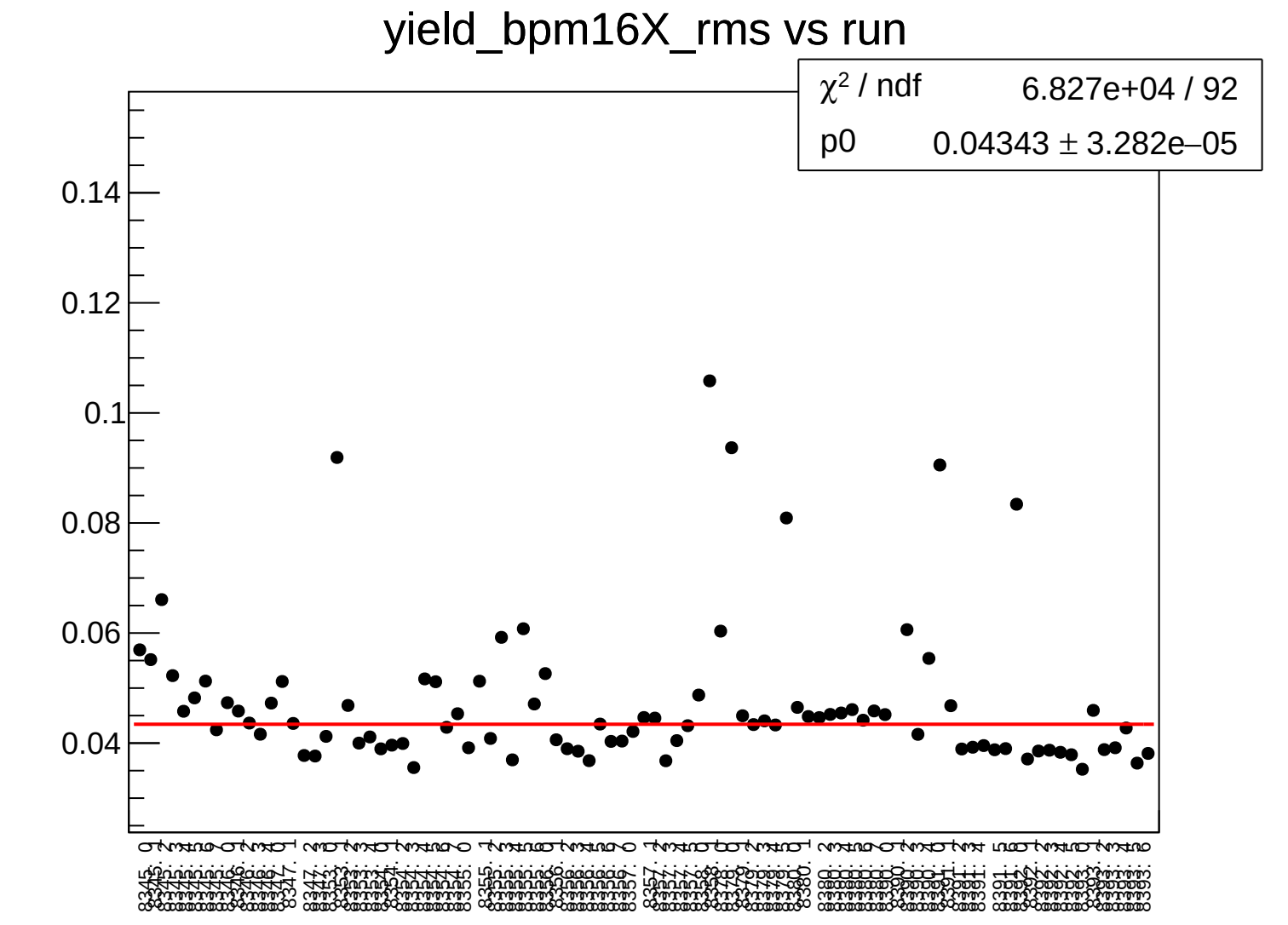

yield_bpm12Y_mean vs run
χ² / ndf 2.557e+09 / 92
p0 1.685 ± 6.002e−06
pull
Entries 93
Mean 805.5
Std Dev 0

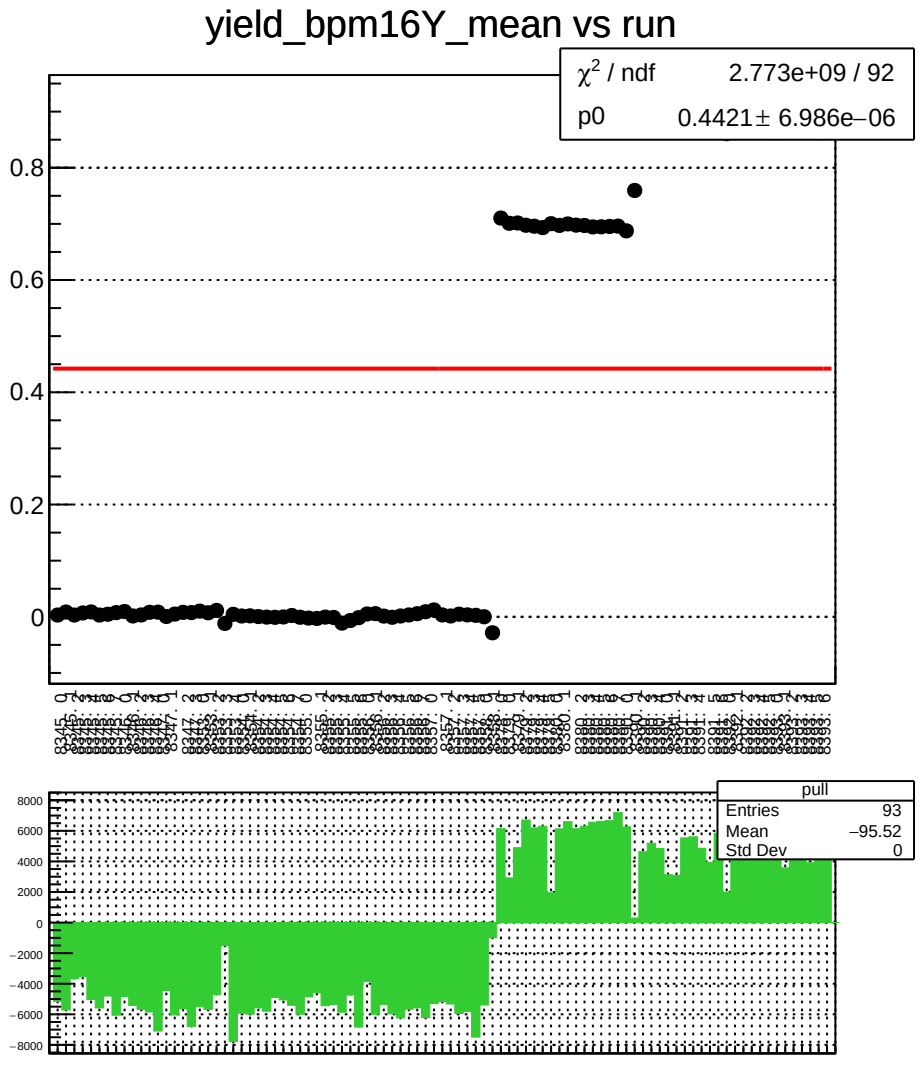

pull1D
Entries 93
Mean 0
Std Dev 0

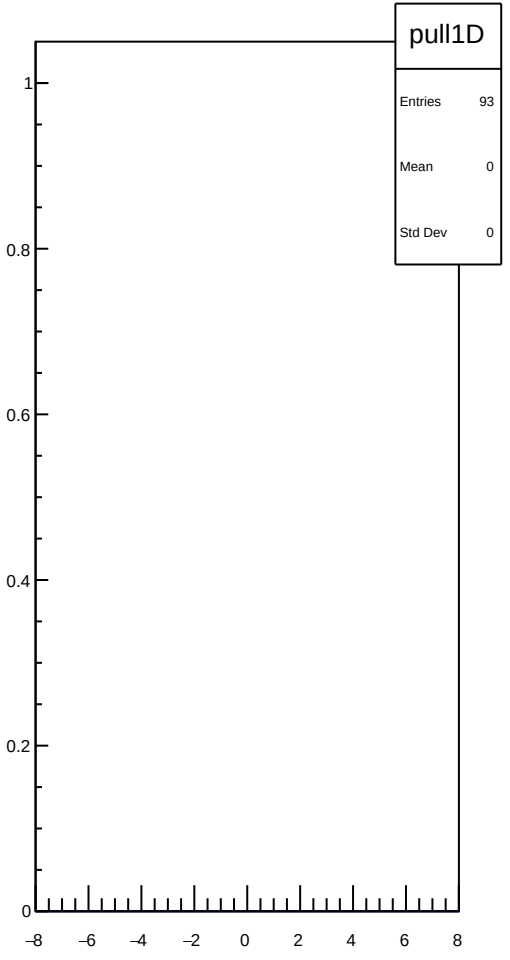

yield_bpm12Y_rms vs run
χ² / ndf 1.907e+05 / 92
p0 0.005415 ± 4.244e−06
0.1
0.08
0.06
0.04
0.02

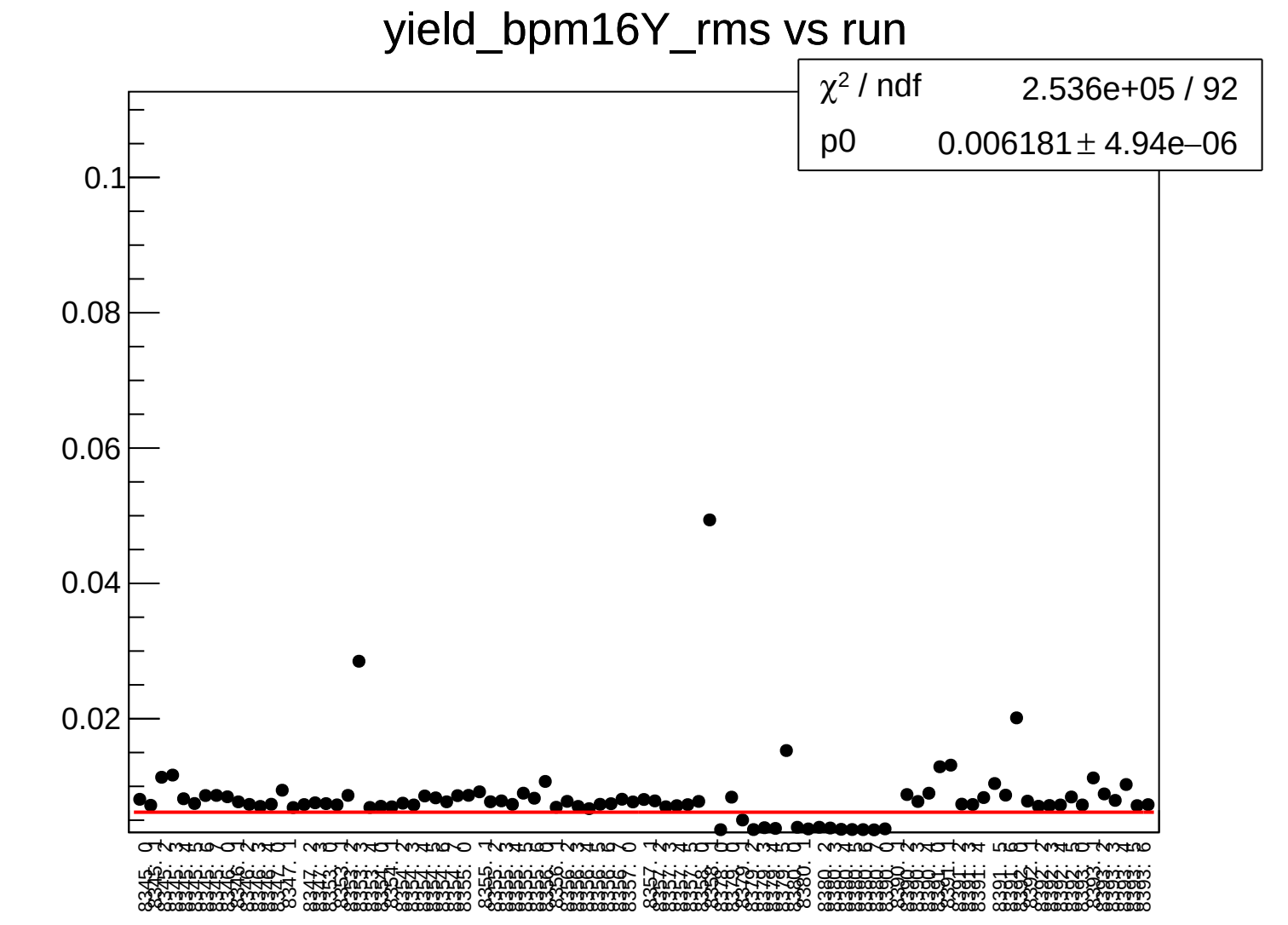

yield_bpm16X_mean vs run
χ² / ndf 5.494e+07 / 92
p0 −0.2107 ± 4.642e−05
pull
Entries 93
Mean 1380
Std Dev 0

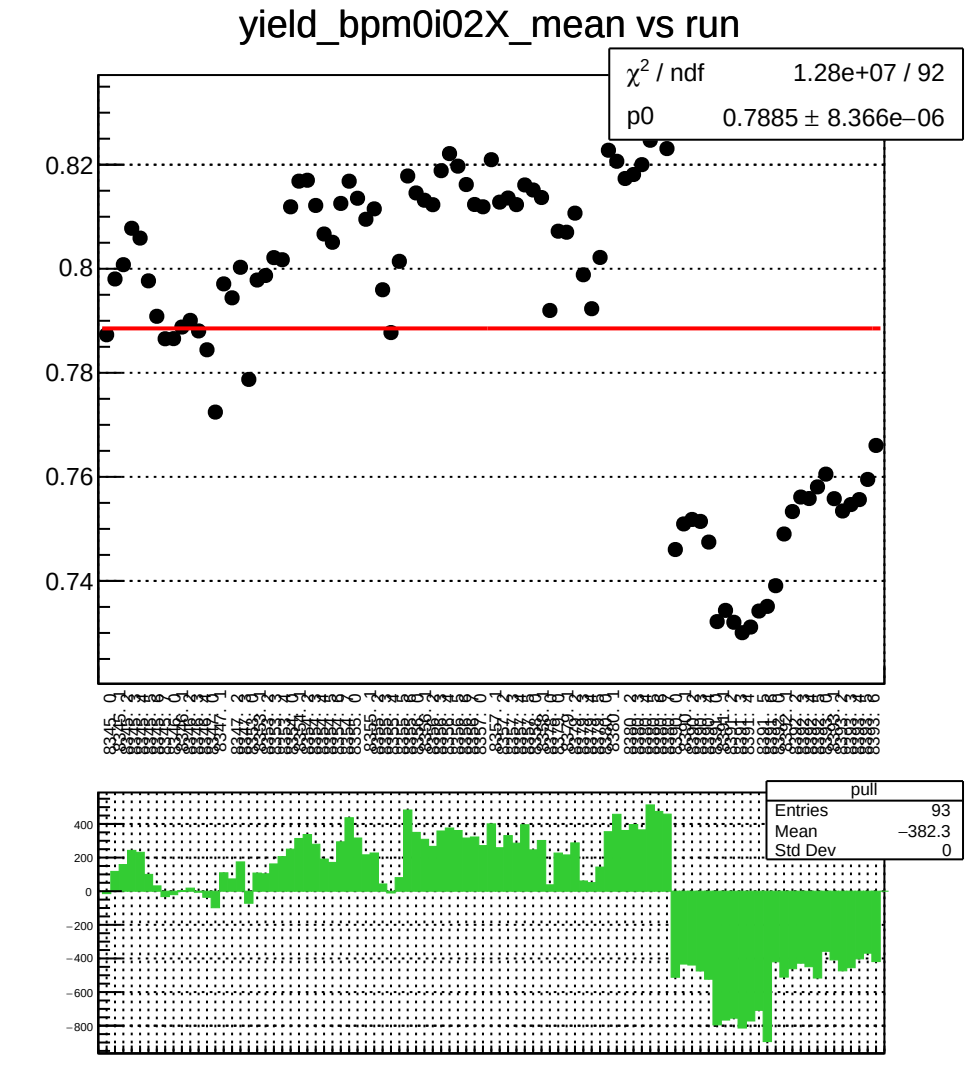

pull1D
Entries 93
Mean 0
Std Dev 0

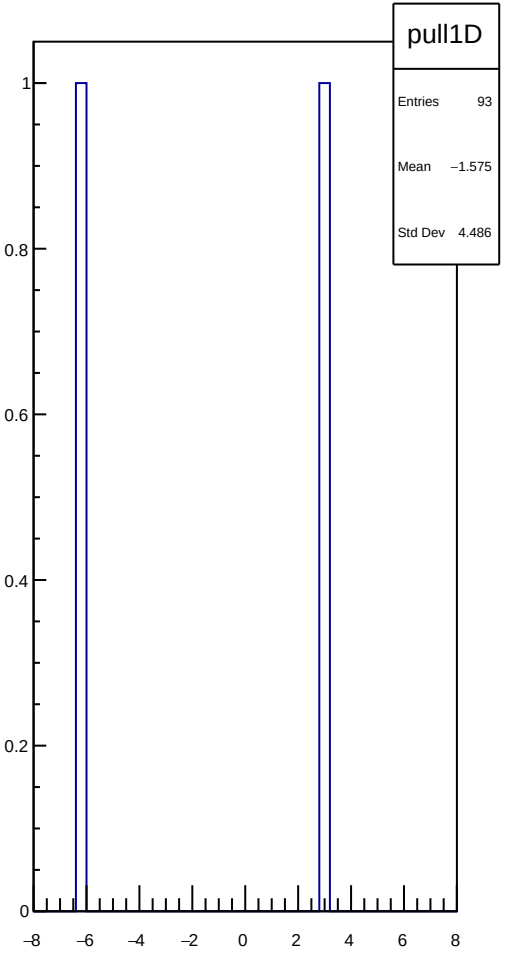

yield_bpm16X_rms vs run
χ² / ndf 6.827e+04 / 92
p0 0.04343 ± 3.282e−05
0.14
0.12
0.1
0.08
0.06
0.04

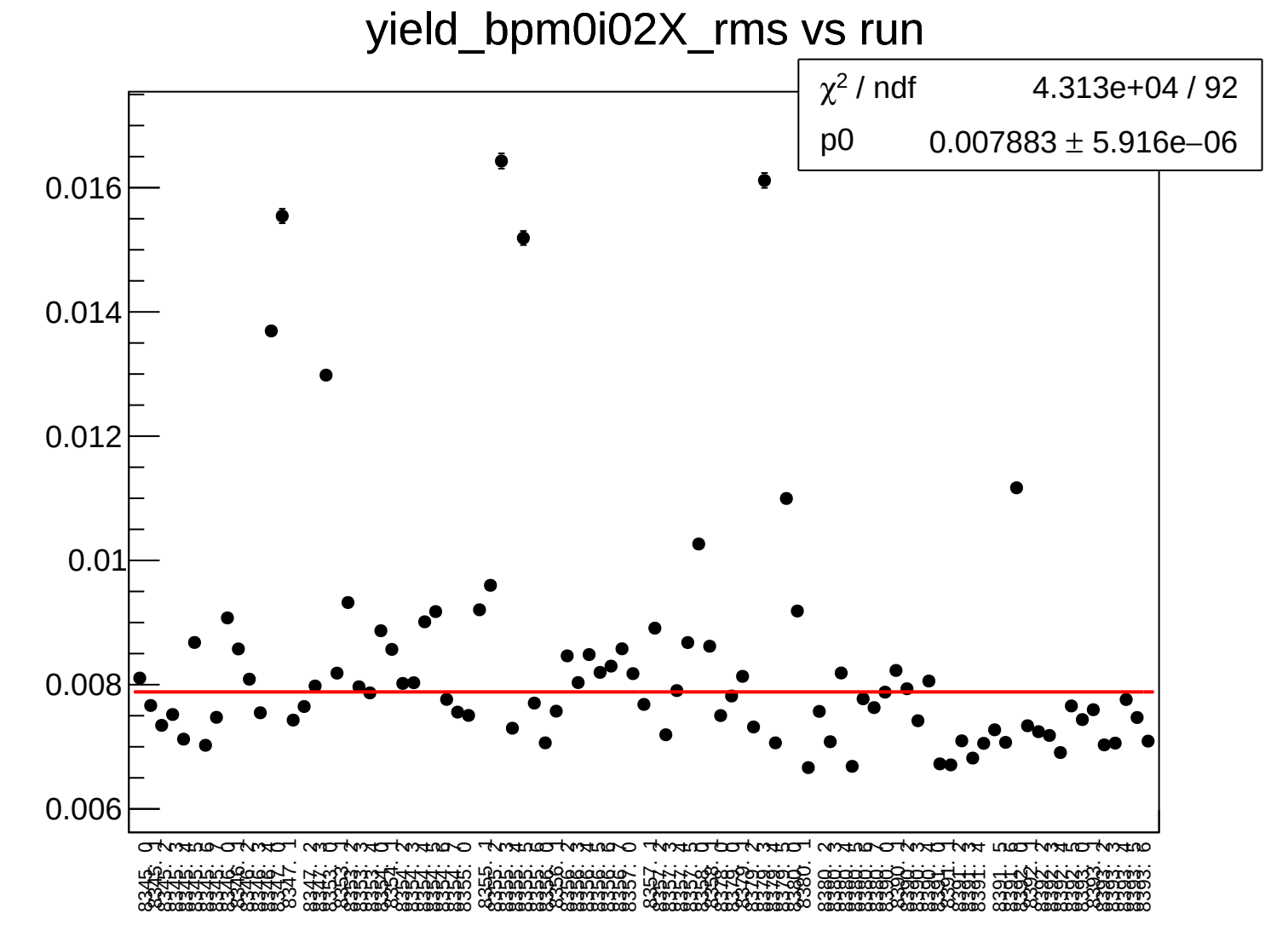

yield_bpm16Y_mean vs run
χ² / ndf 2.773e+09 / 92
p0 0.4421 ± 6.986e−06
0.8
0.6
0.4
0.2
0
pull
Entries 93
Mean −95.52
Std Dev 0
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000

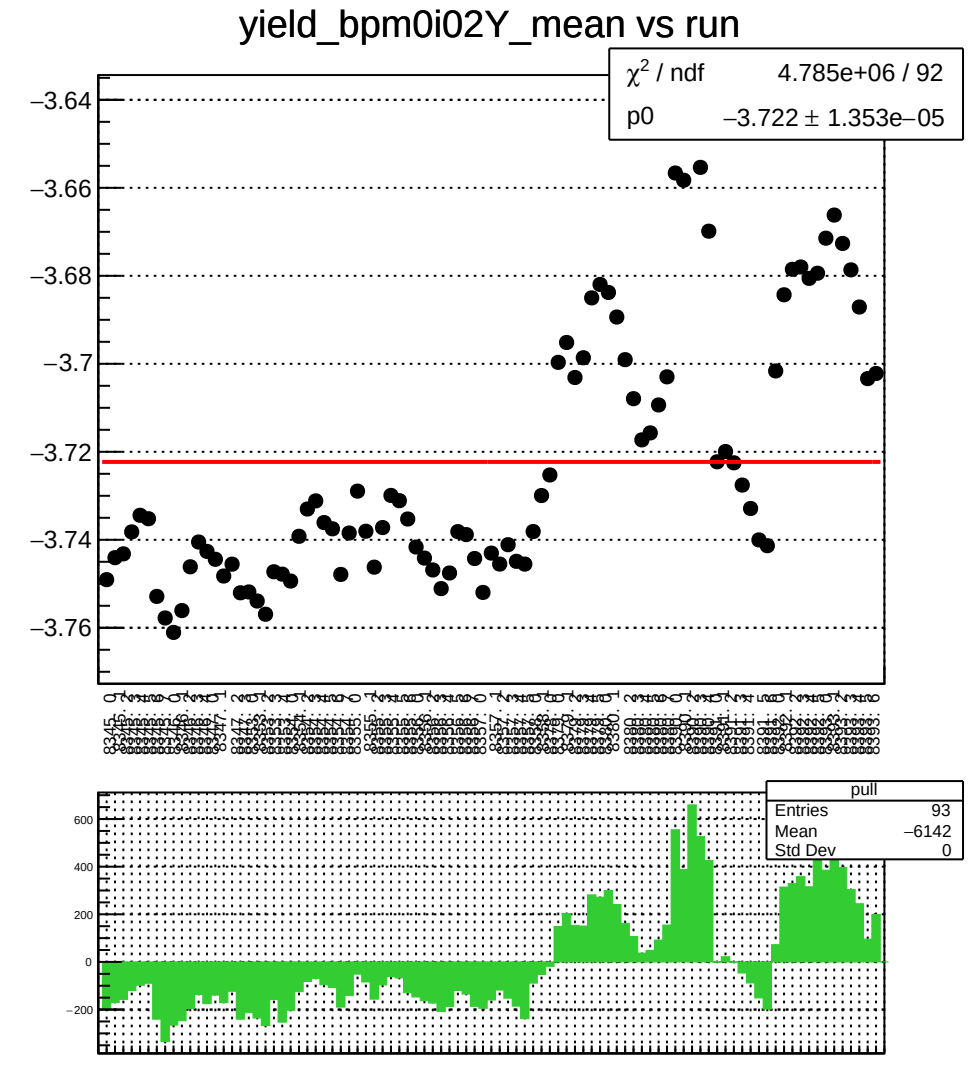

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

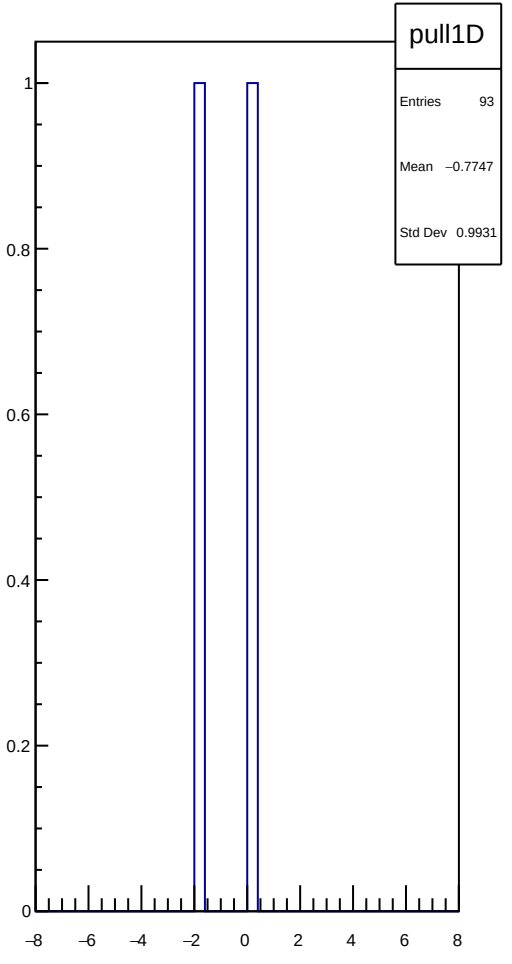

yield_bpm16Y_rms vs run
χ² / ndf 2.536e+05 / 92
p0 0.006181 ± 4.94e–06
0.1
0.08
0.06
0.04
0.02

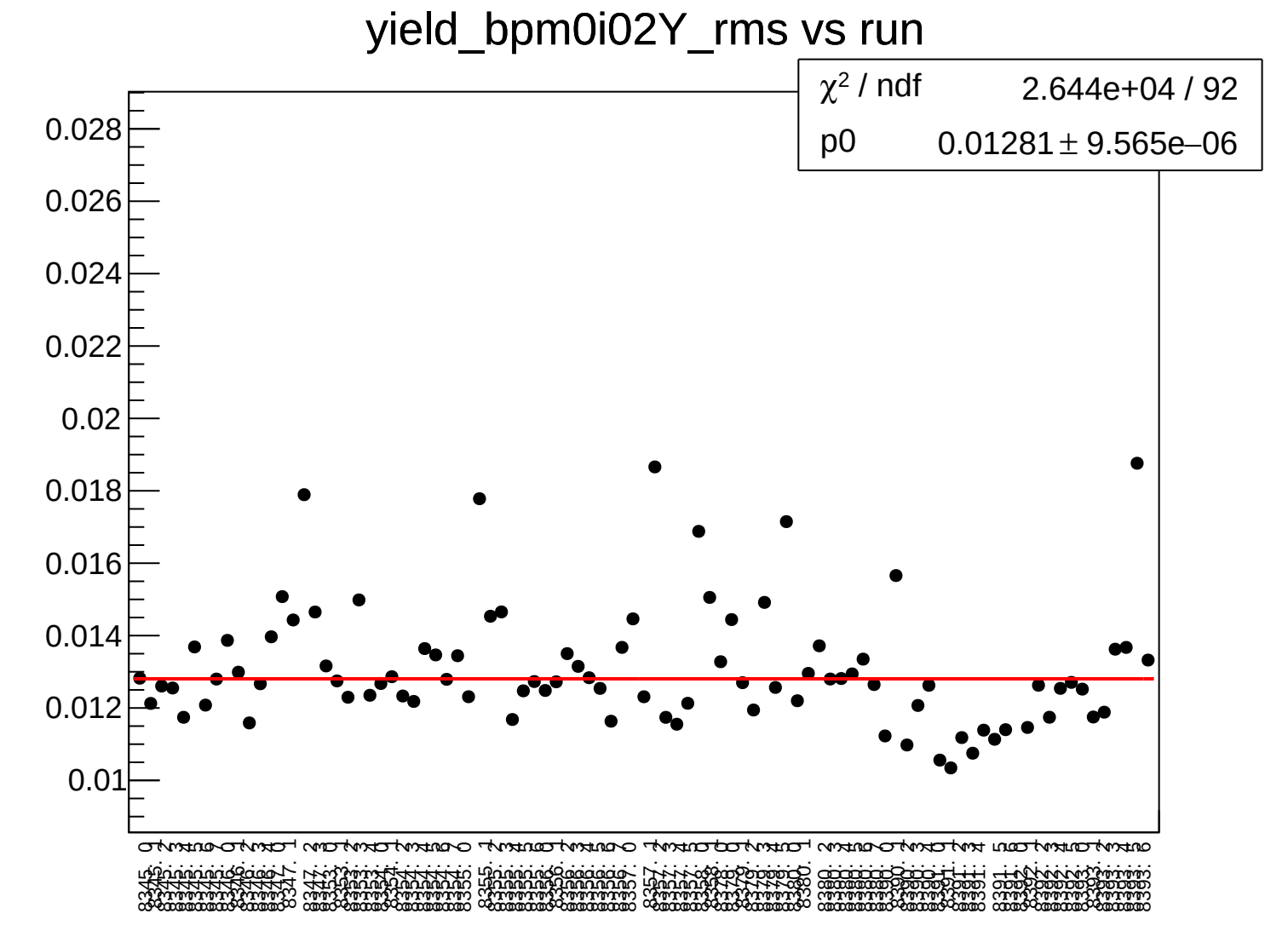

yield_bpm0i02X_mean vs run
χ² / ndf 1.28e+07 / 92
p0 0.7885 ± 8.366e−06
0.82
0.8
0.78
0.76
0.74
pull
Entries 93
Mean −382.3
Std Dev 0
400
200
0
−200
−400
−600
−800

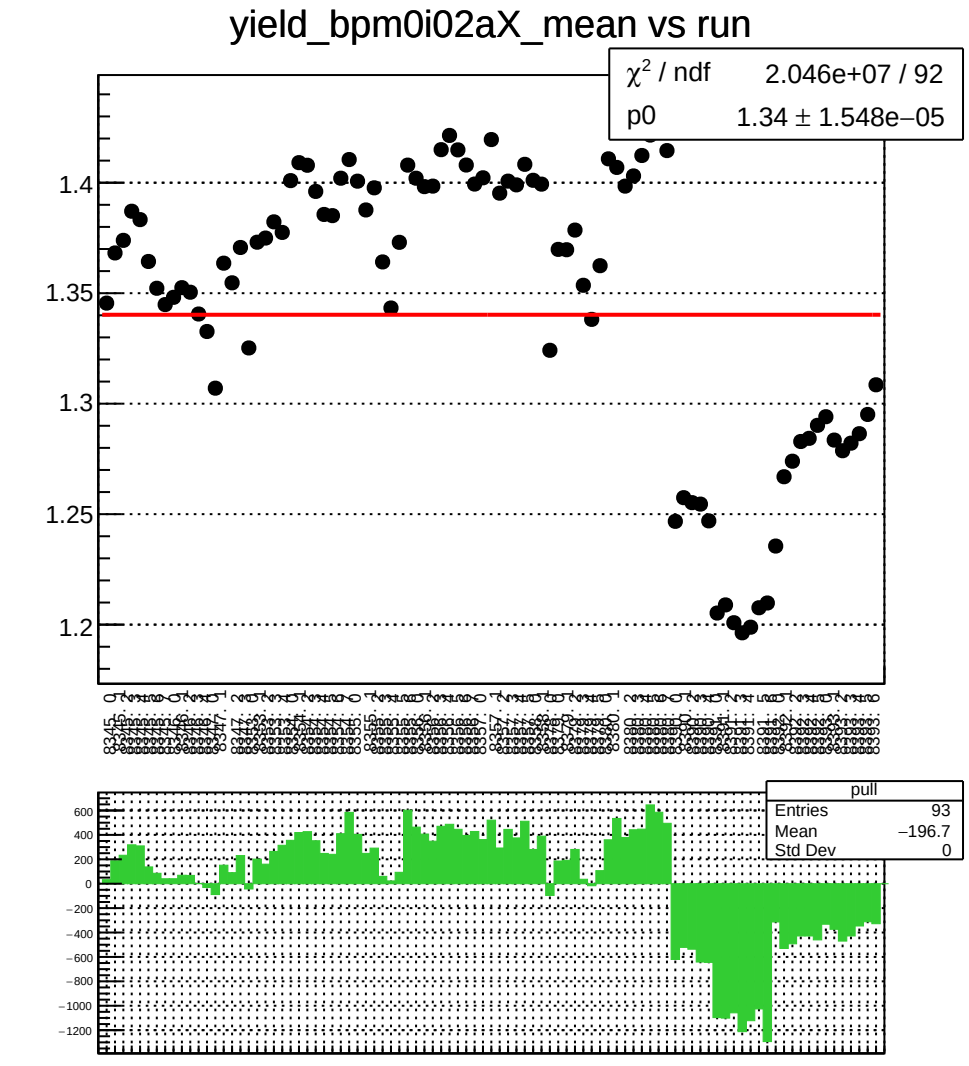

pull1D
Entries 93
Mean −1.575
Std Dev 4.486
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

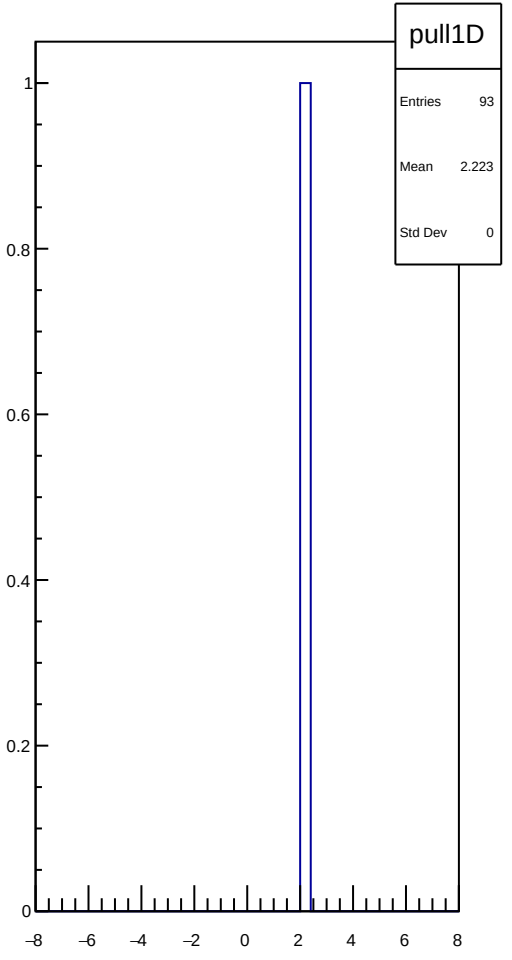

yield_bpm0i02X_rms vs run
χ² / ndf 4.313e+04 / 92
p0 0.007883 ± 5.916e−06
0.016
0.014
0.012
0.01
0.008
0.006

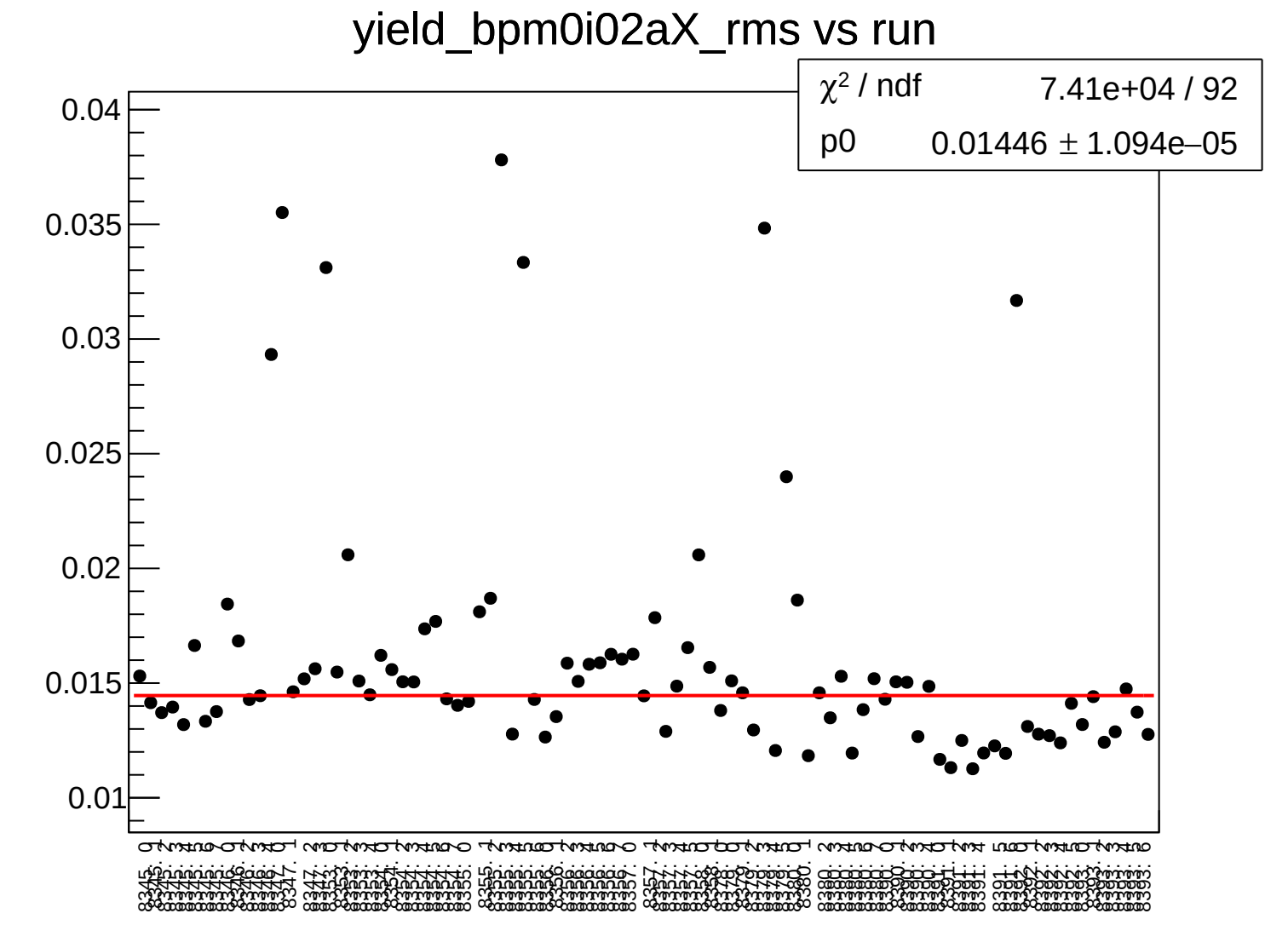

yield_bpm0i02Y_mean vs run
χ² / ndf 4.785e+06 / 92
p0 −3.722 ± 1.353e−05
−3.64
−3.66
−3.68
−3.7
−3.72
−3.74
−3.76
pull
Entries 93
Mean −6142
Std Dev 0
600
400
200
0
−200

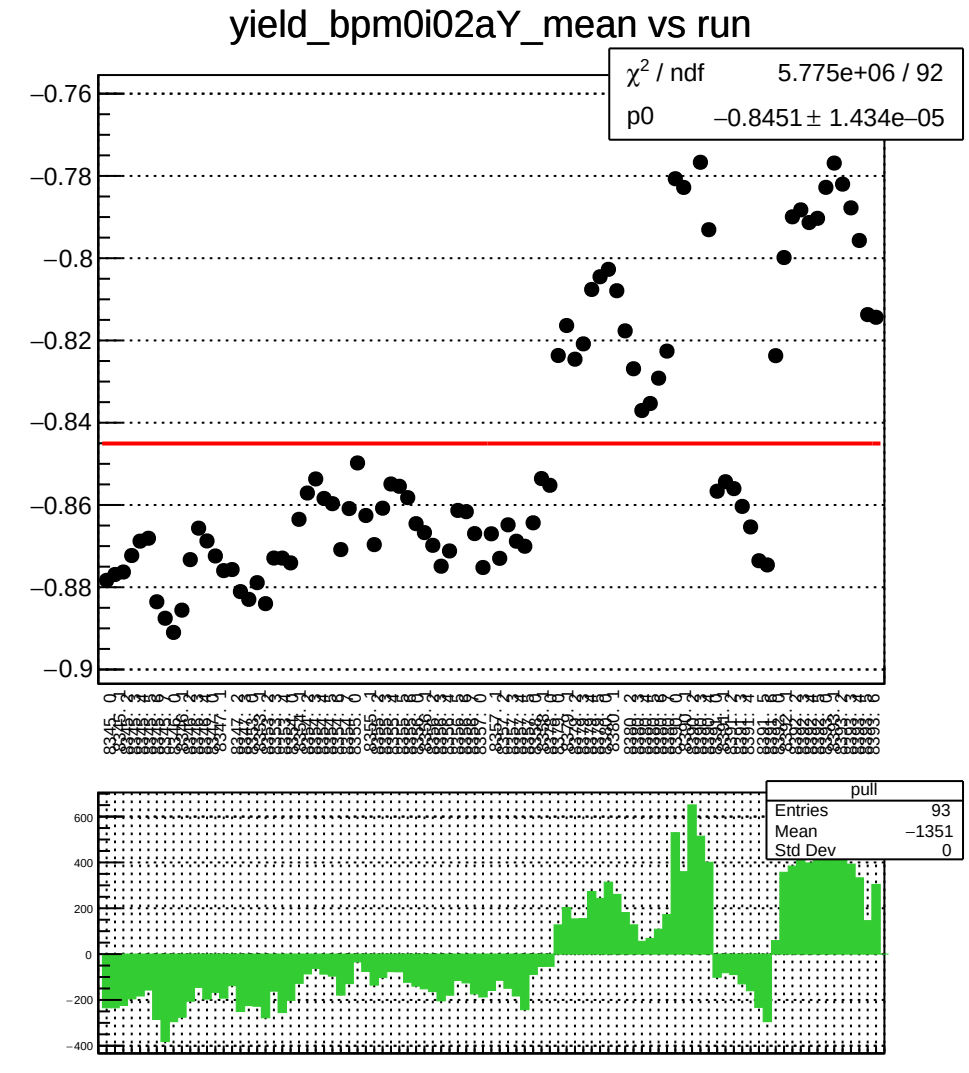

pull1D
Entries 93
Mean −0.7747
Std Dev 0.9931
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

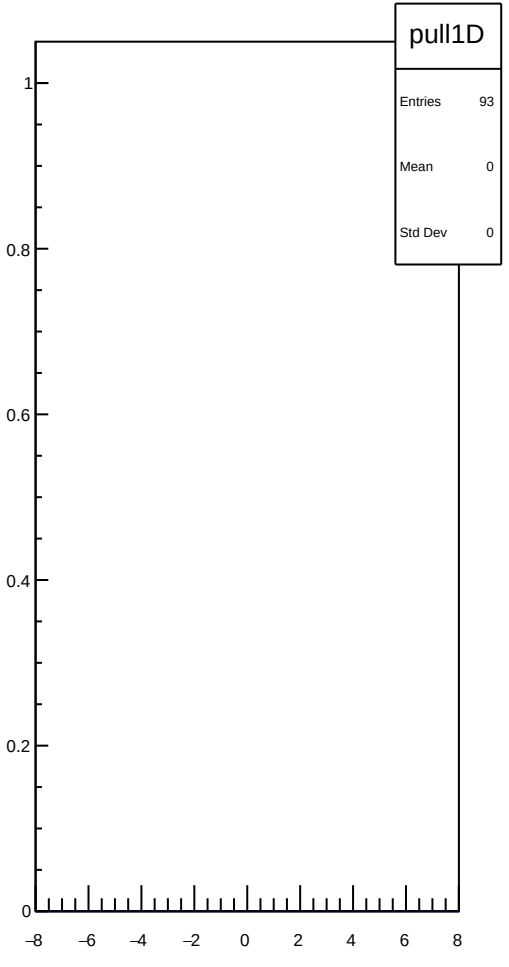

yield_bpm0i02Y_rms vs run
χ² / ndf 2.644e+04 / 92
p0 0.01281 ± 9.565e–06
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

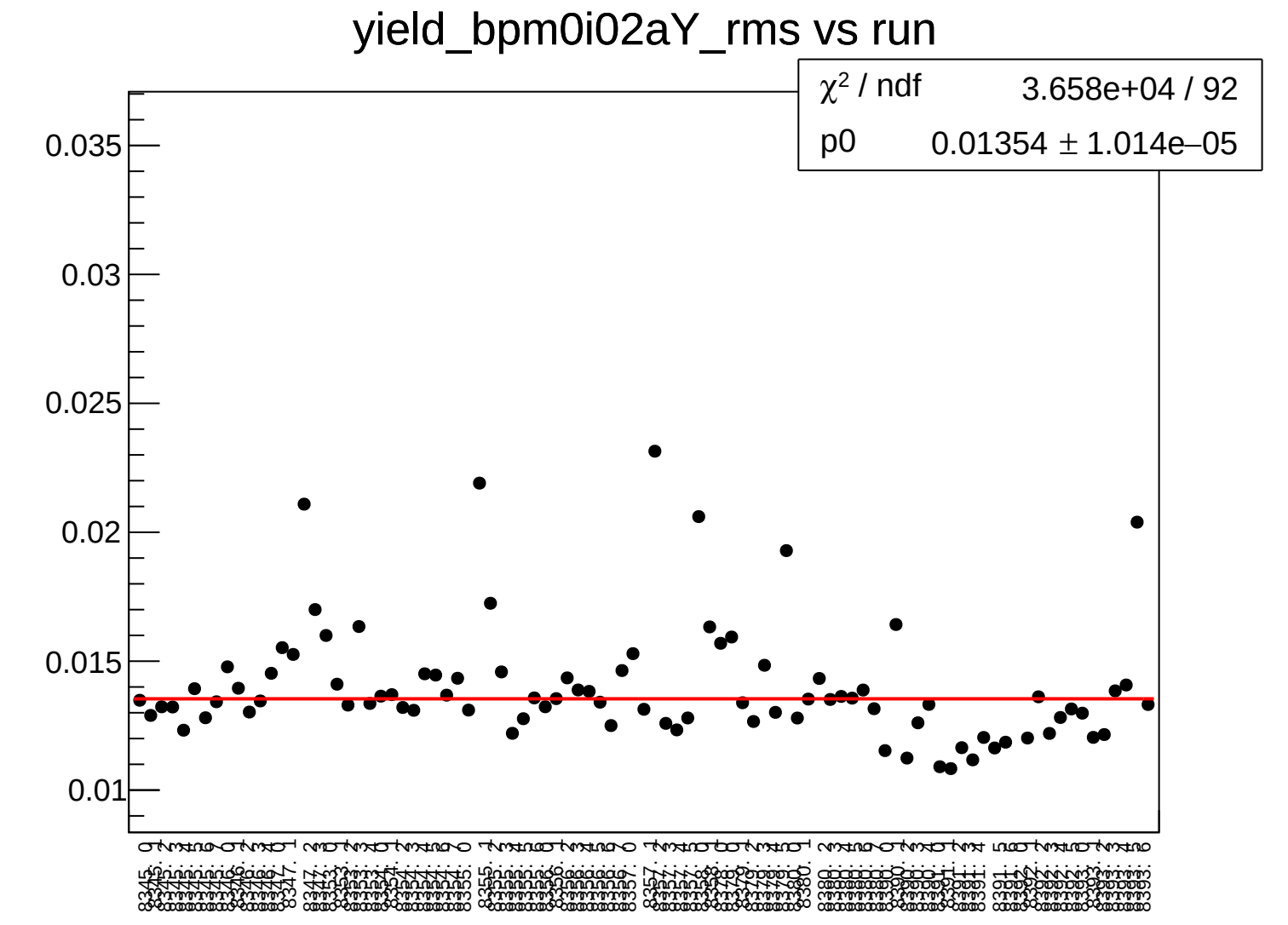

yield_bpm0i02aX_mean vs run
χ² / ndf 2.046e+07 / 92
p0 1.34 ± 1.548e−05
1.4
1.35
1.3
1.25
1.2
pull
Entries 93
Mean −196.7
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000
−1200

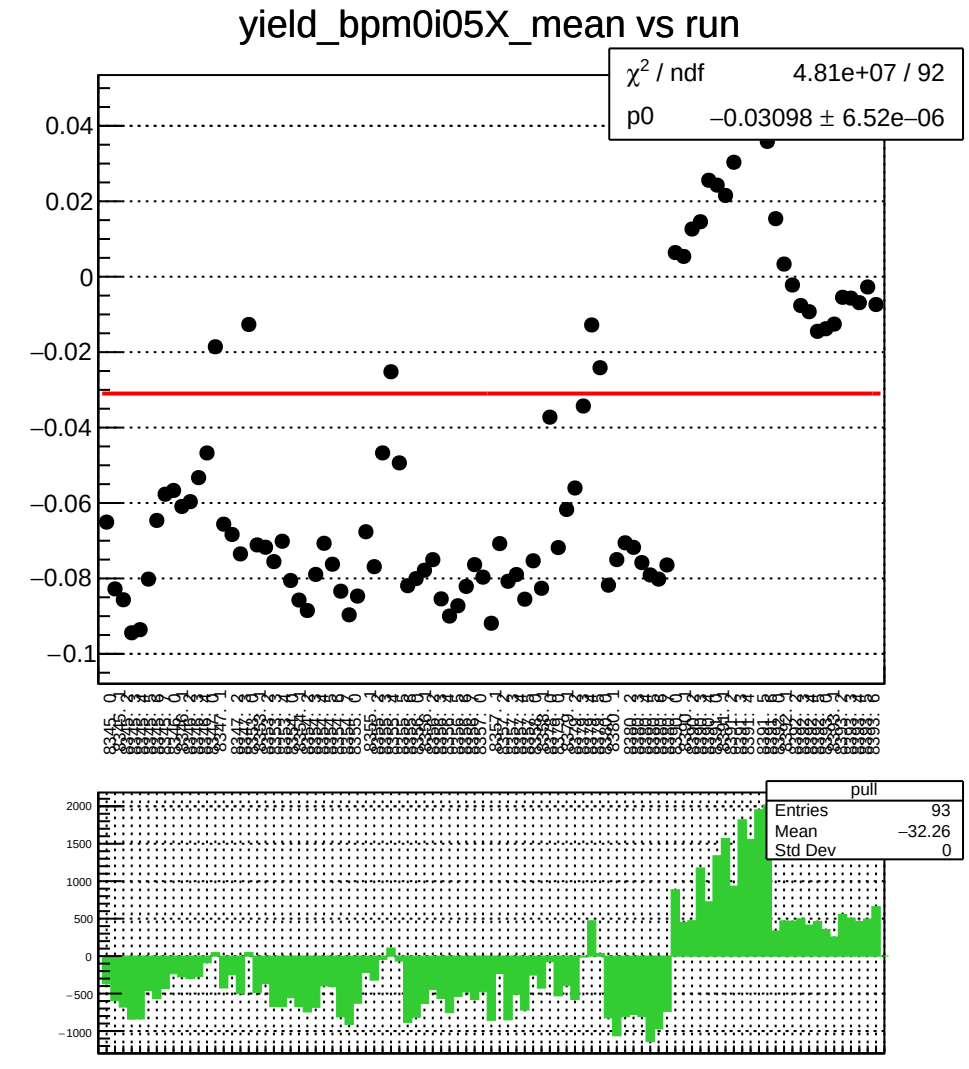

pull1D
Entries 93
Mean 2.223
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

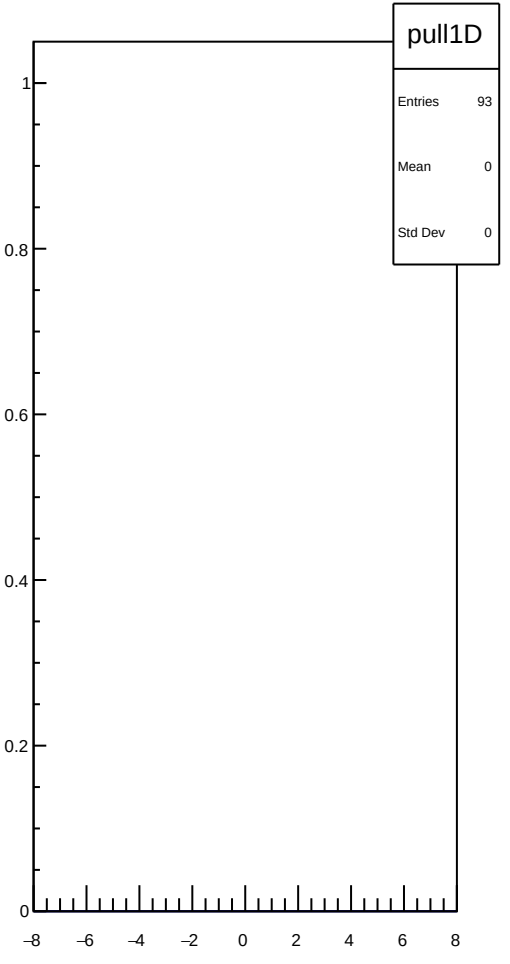

yield_bpm0i02aX_rms vs run
χ² / ndf 7.41e+04 / 92
p0 0.01446 ± 1.094e−05
0.04
0.035
0.03
0.025
0.02
0.015
0.01

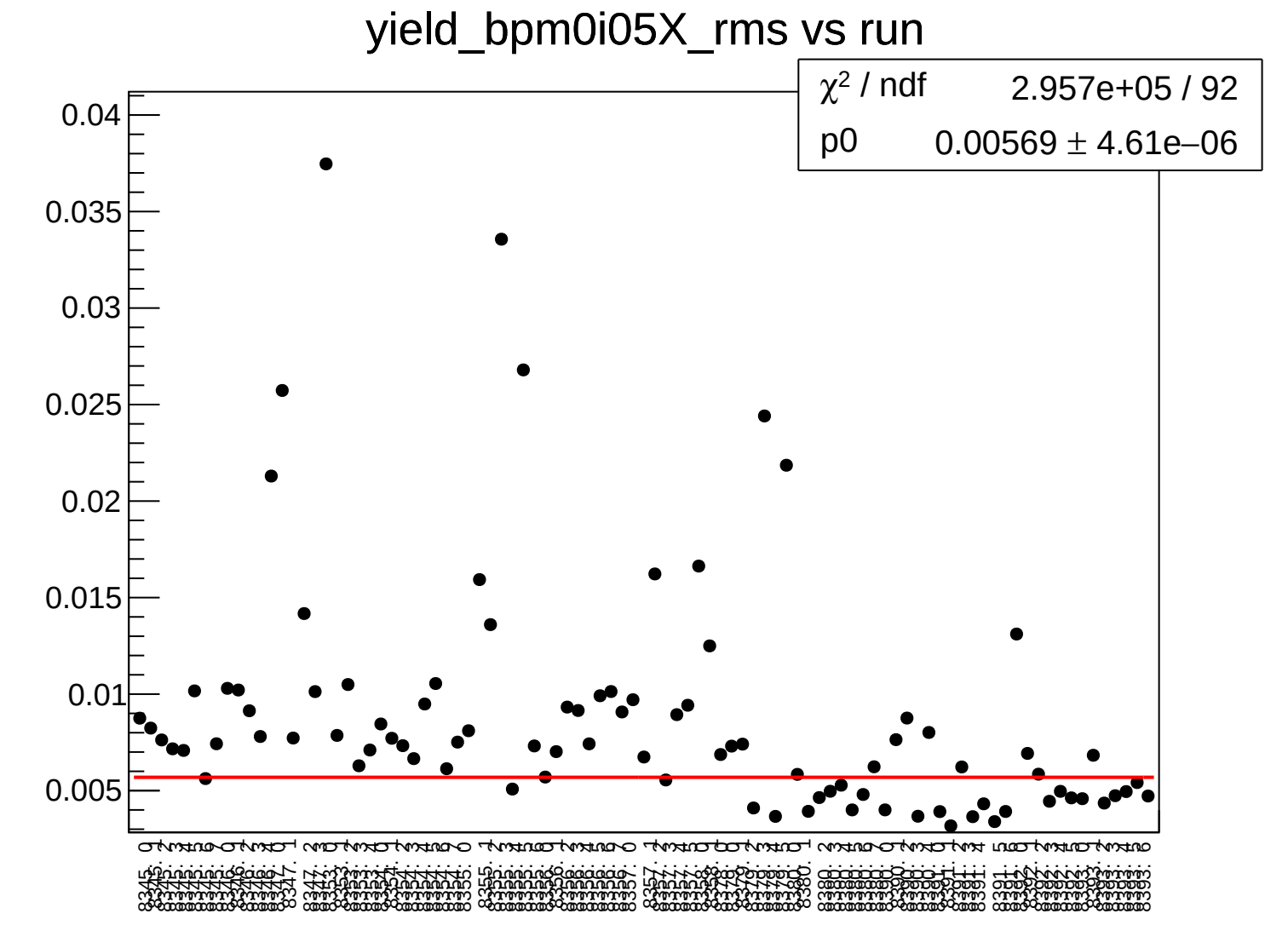

yield_bpm0i02aY_mean vs run
χ² / ndf 5.775e+06 / 92
p0 −0.8451 ± 1.434e−05
−0.76
−0.78
−0.8
−0.82
−0.84
−0.86
−0.88
−0.9
pull
Entries 93
Mean −1351
Std Dev 0
600
400
200
0
−200
−400

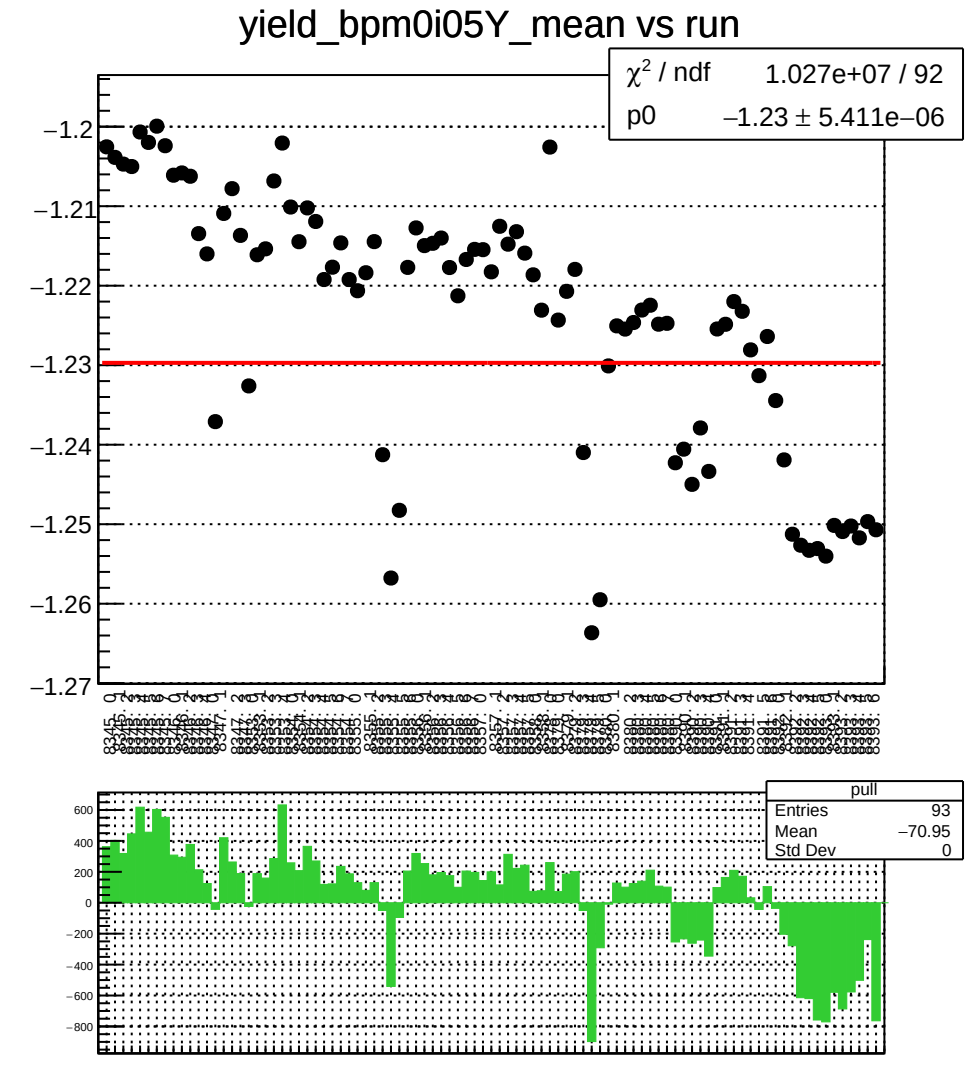

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

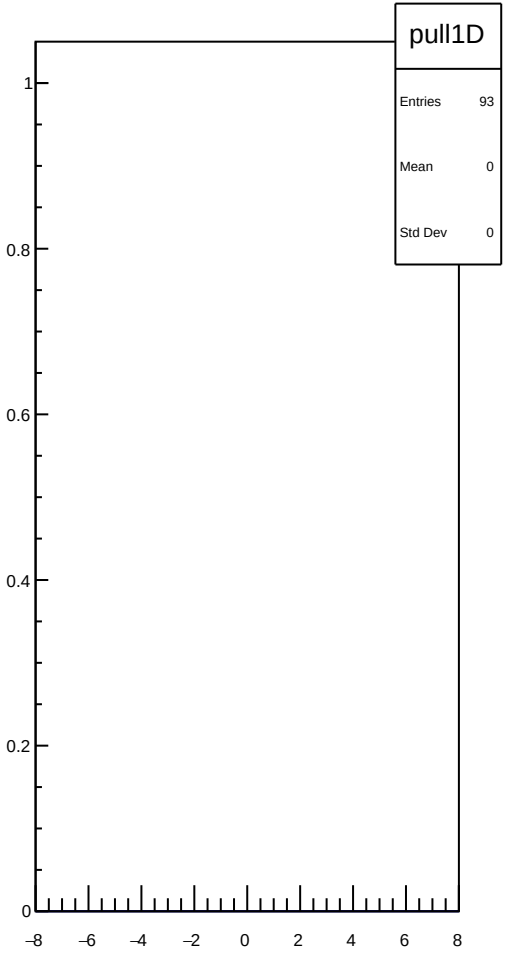

yield_bpm0i02aY_rms vs run
χ² / ndf 3.658e+04 / 92
p0 0.01354 ± 1.014e−05
0.035
0.03
0.025
0.02
0.015
0.01

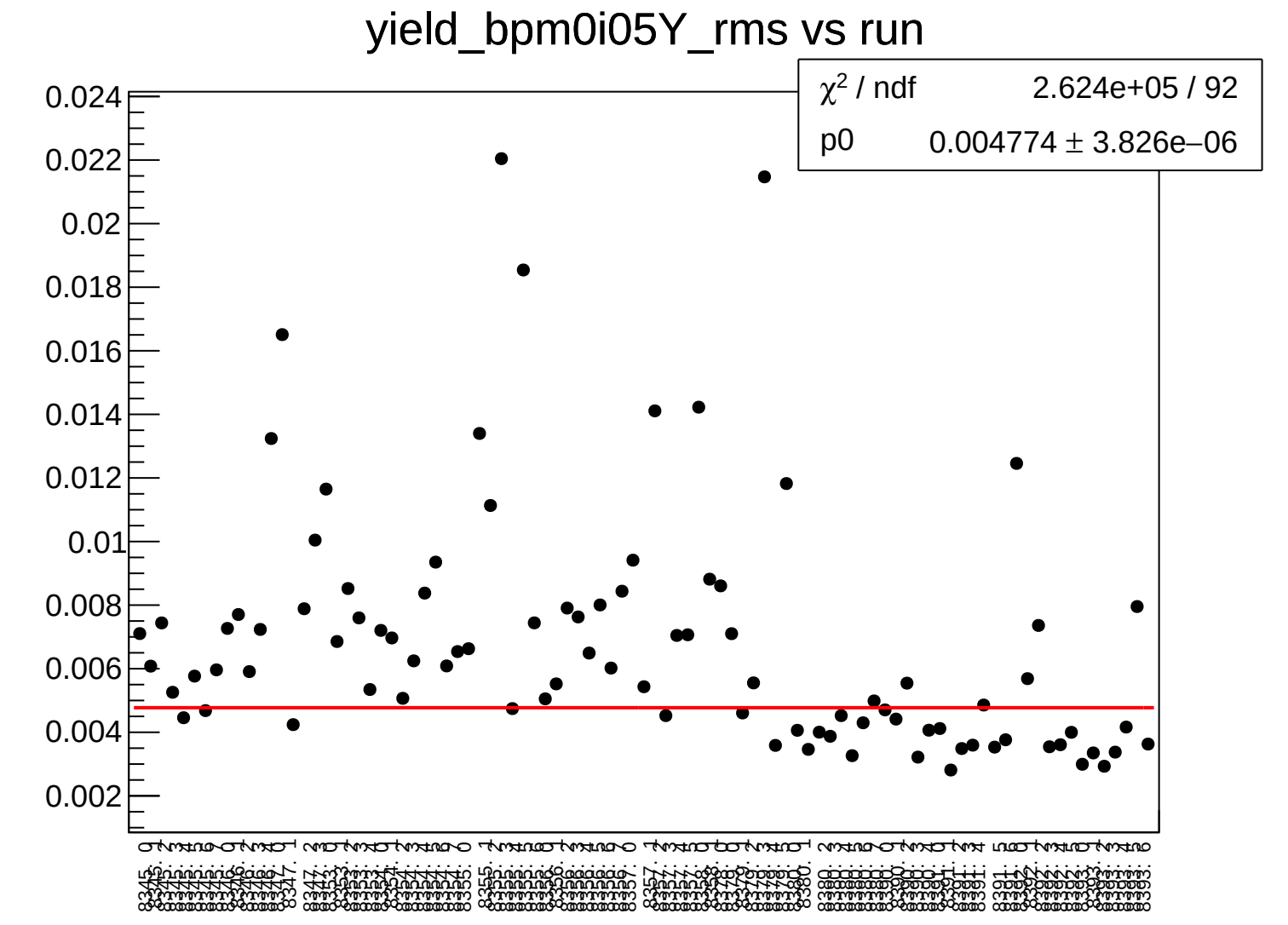

yield_bpm0i05X_mean vs run
χ² / ndf 4.81e+07 / 92
p0 −0.03098 ± 6.52e−06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
pull
Entries 93
Mean −32.26
Std Dev 0
2000
1500
1000
500
0
−500
−1000

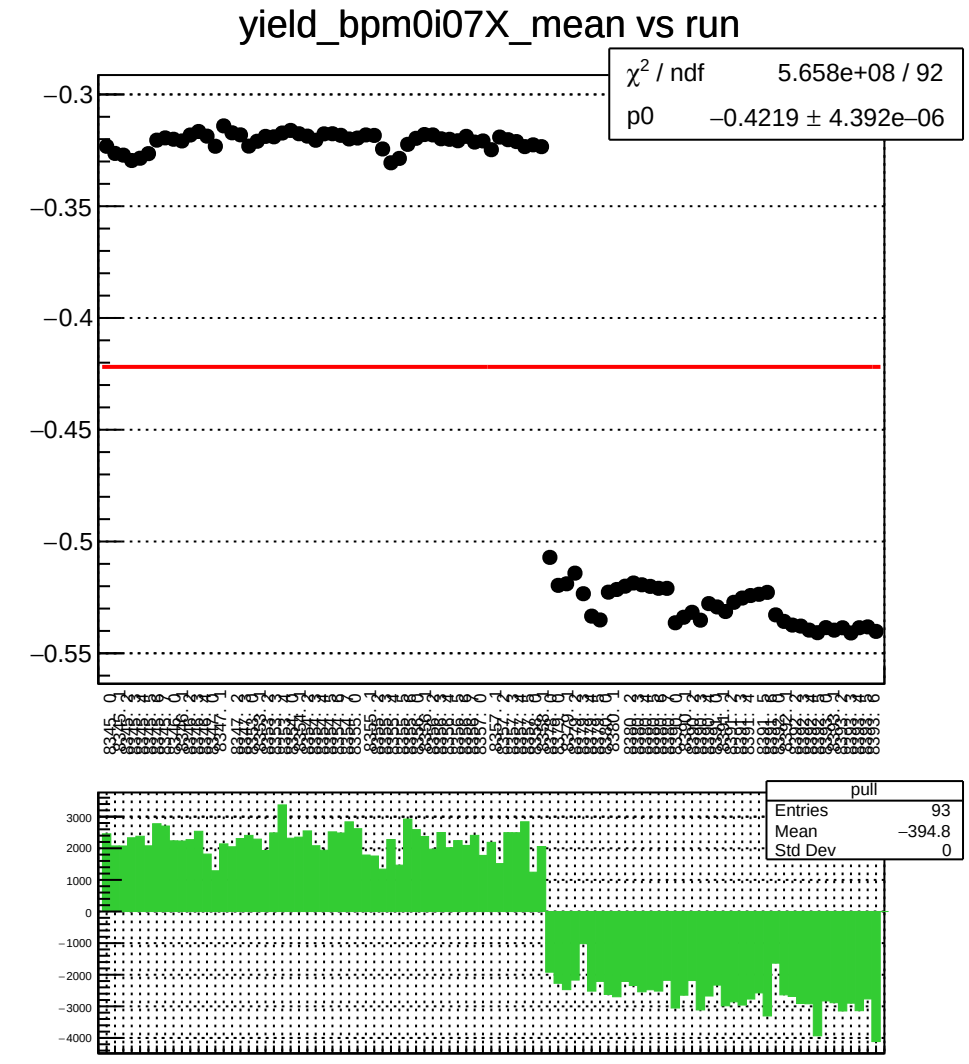

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

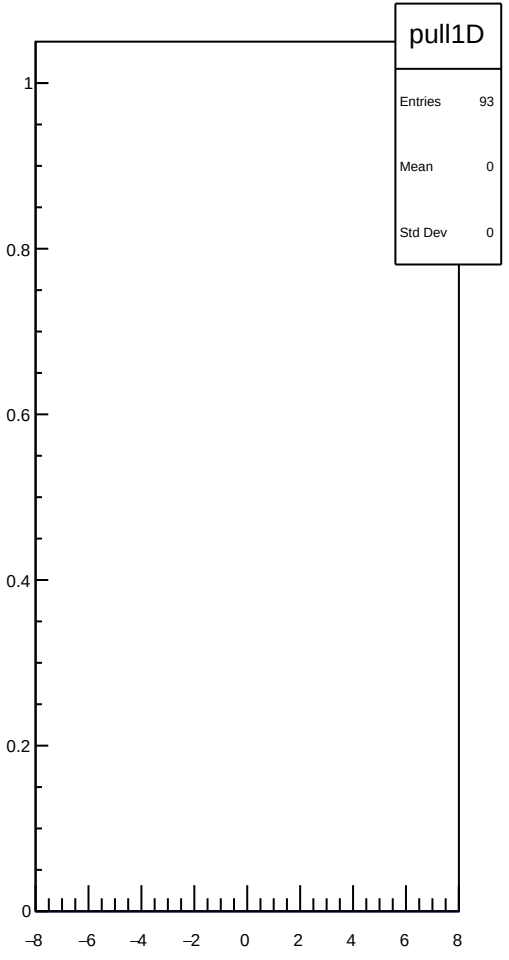

yield_bpm0i05X_rms vs run
χ² / ndf 2.957e+05 / 92
p0 0.00569 ± 4.61e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

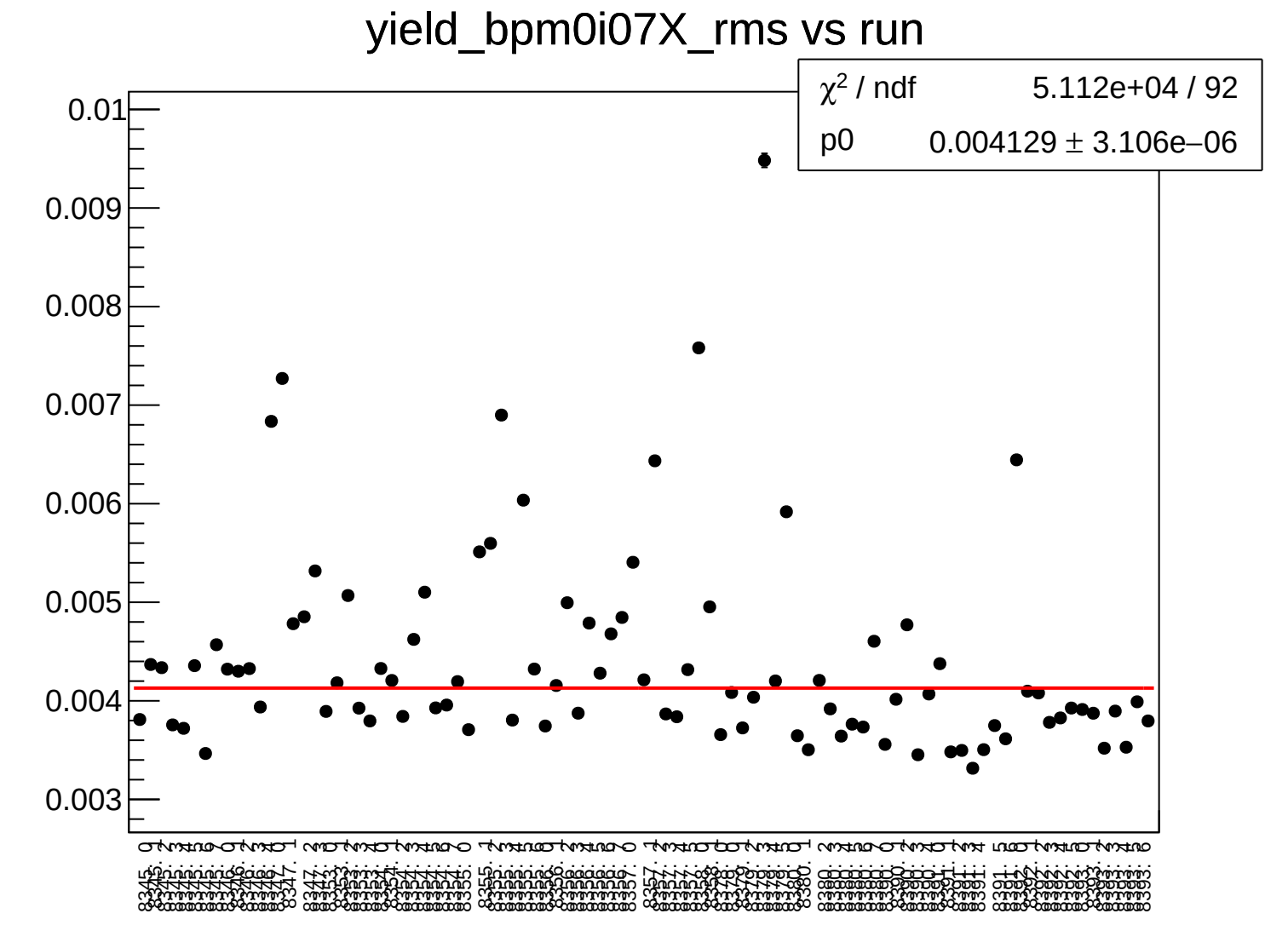

yield_bpm0i05Y_mean vs run
χ² / ndf 1.027e+07 / 92
p0 −1.23 ± 5.411e−06
−1.2
−1.21
−1.22
−1.23
−1.24
−1.25
−1.26
−1.27
pull
Entries 93
Mean −70.95
Std Dev 0
600
400
200
0
−200
−400
−600
−800

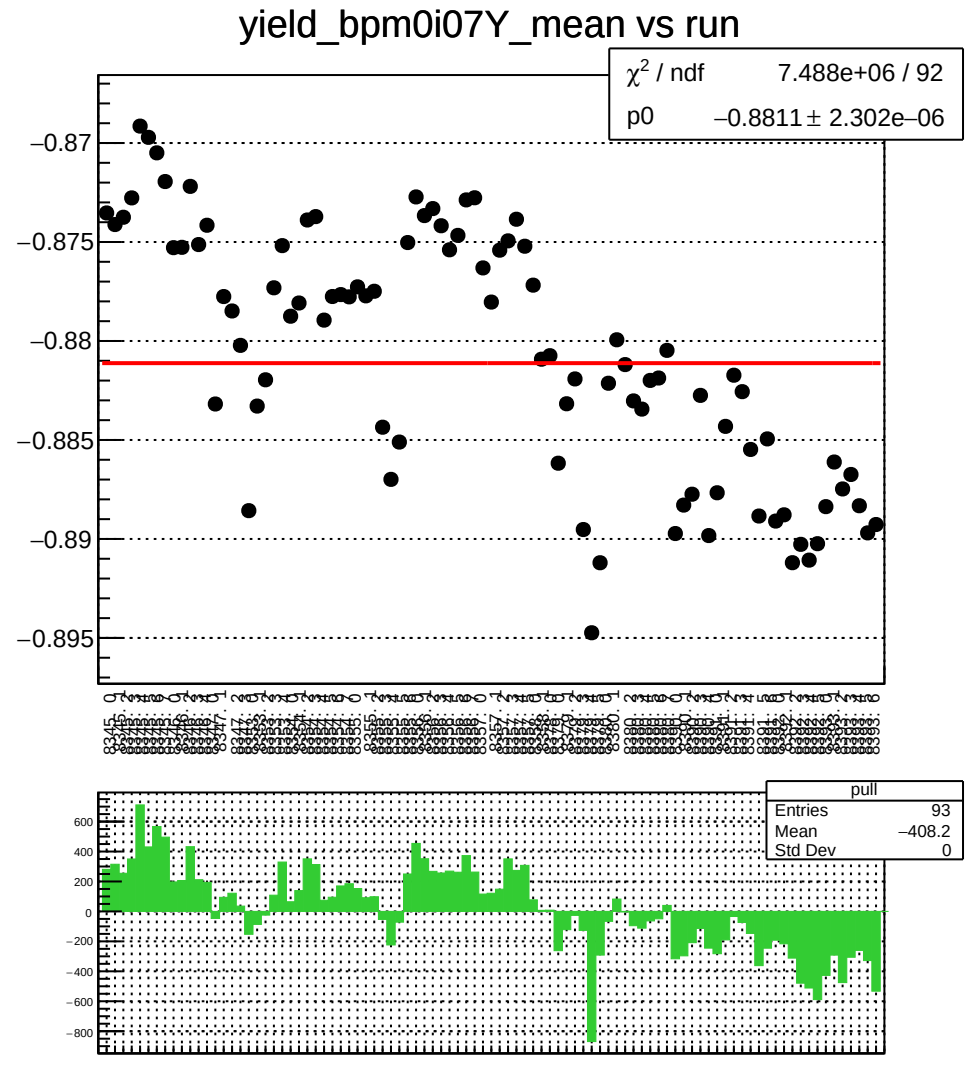

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

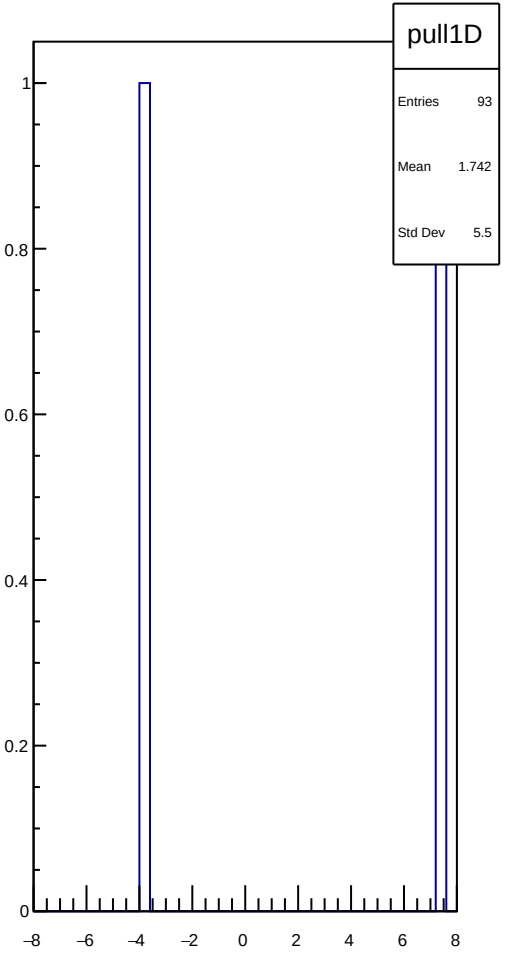

yield_bpm0i05Y_rms vs run
χ² / ndf 2.624e+05 / 92
p0 0.004774 ± 3.826e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

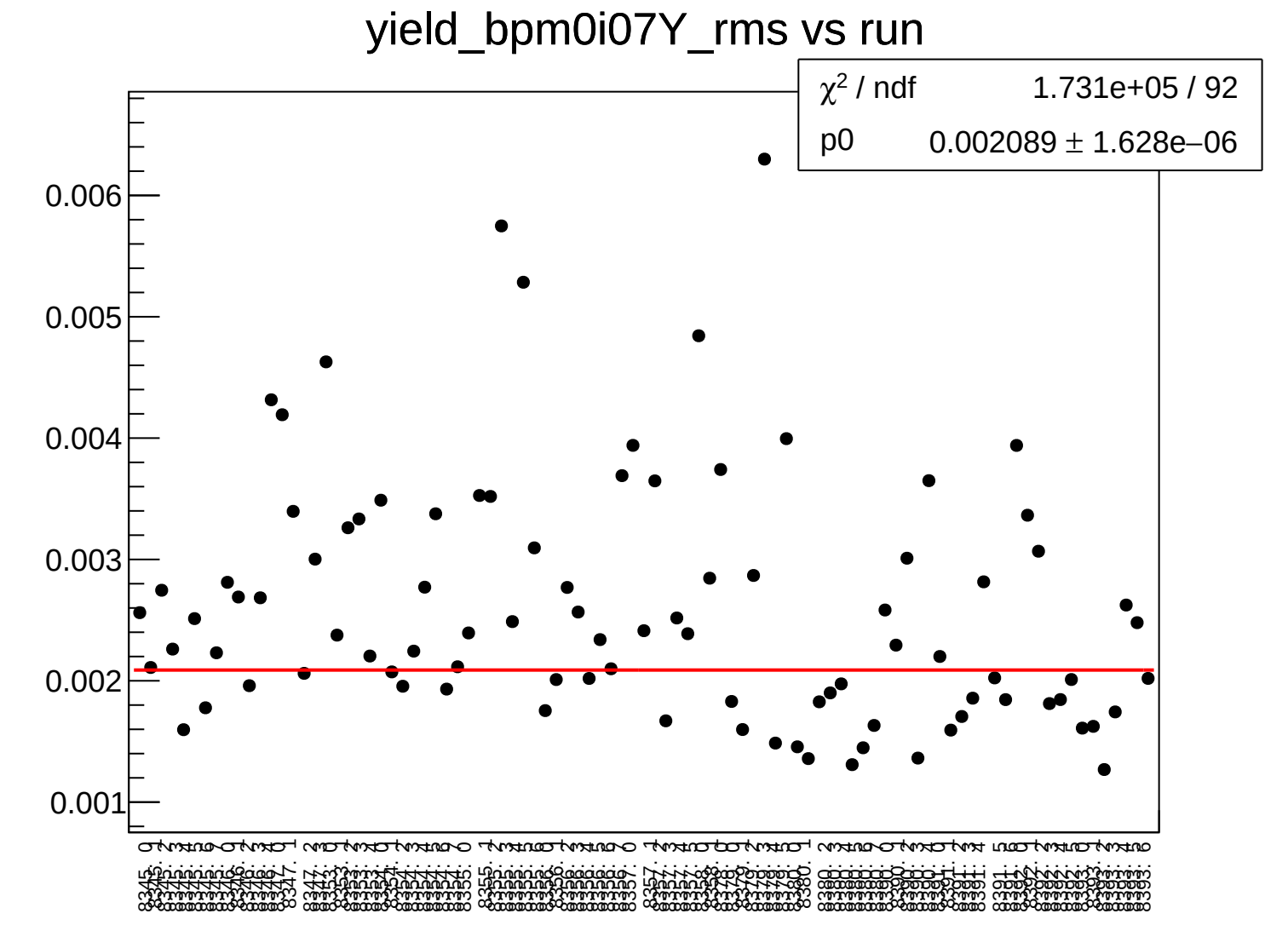

yield_bpm0i07X_mean vs run
χ² / ndf 5.658e+08 / 92
p0 −0.4219 ± 4.392e−06
−0.3
−0.35
−0.4
−0.45
−0.5
−0.55
pull
Entries 93
Mean −394.8
Std Dev 0
3000
2000
1000
0
−1000
−2000
−3000
−4000

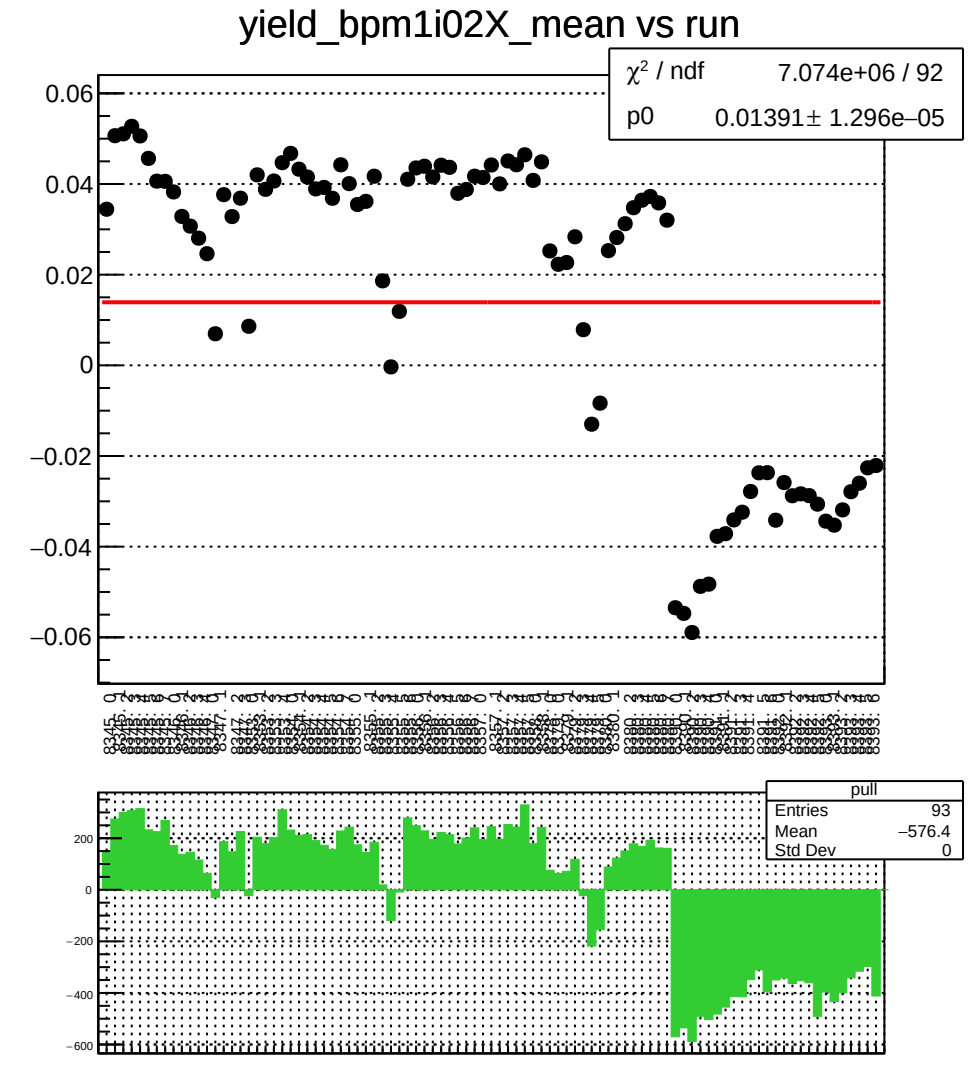

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

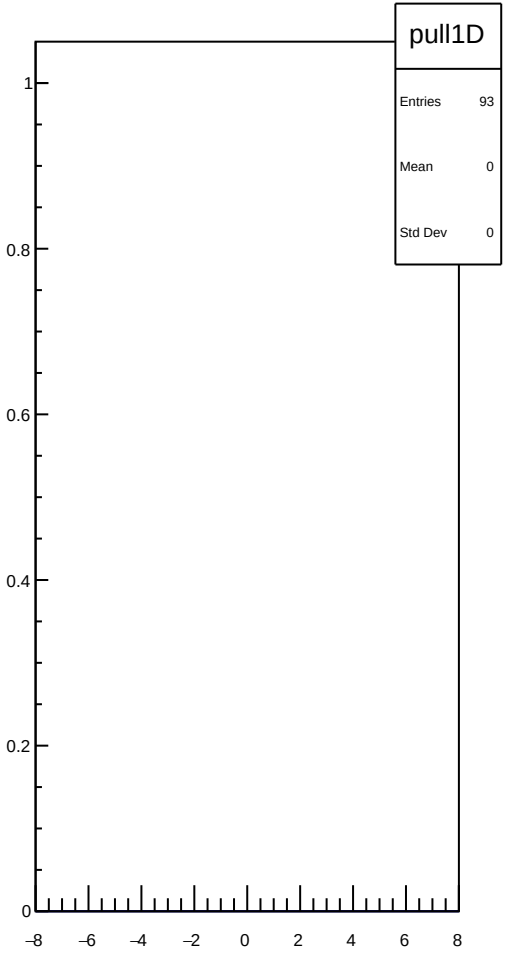

yield_bpm0i07X_rms vs run
χ^2 / ndf 5.112e+04 / 92
p0 0.004129 ± 3.106e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003


yield_bpm0i07Y_mean vs run
χ² / ndf 7.488e+06 / 92
p0 −0.8811 ± 2.302e−06
−0.87
−0.875
−0.88
−0.885
−0.89
−0.895
pull
Entries 93
Mean −408.2
Std Dev 0
600
400
200
0
−200
−400
−600
−800

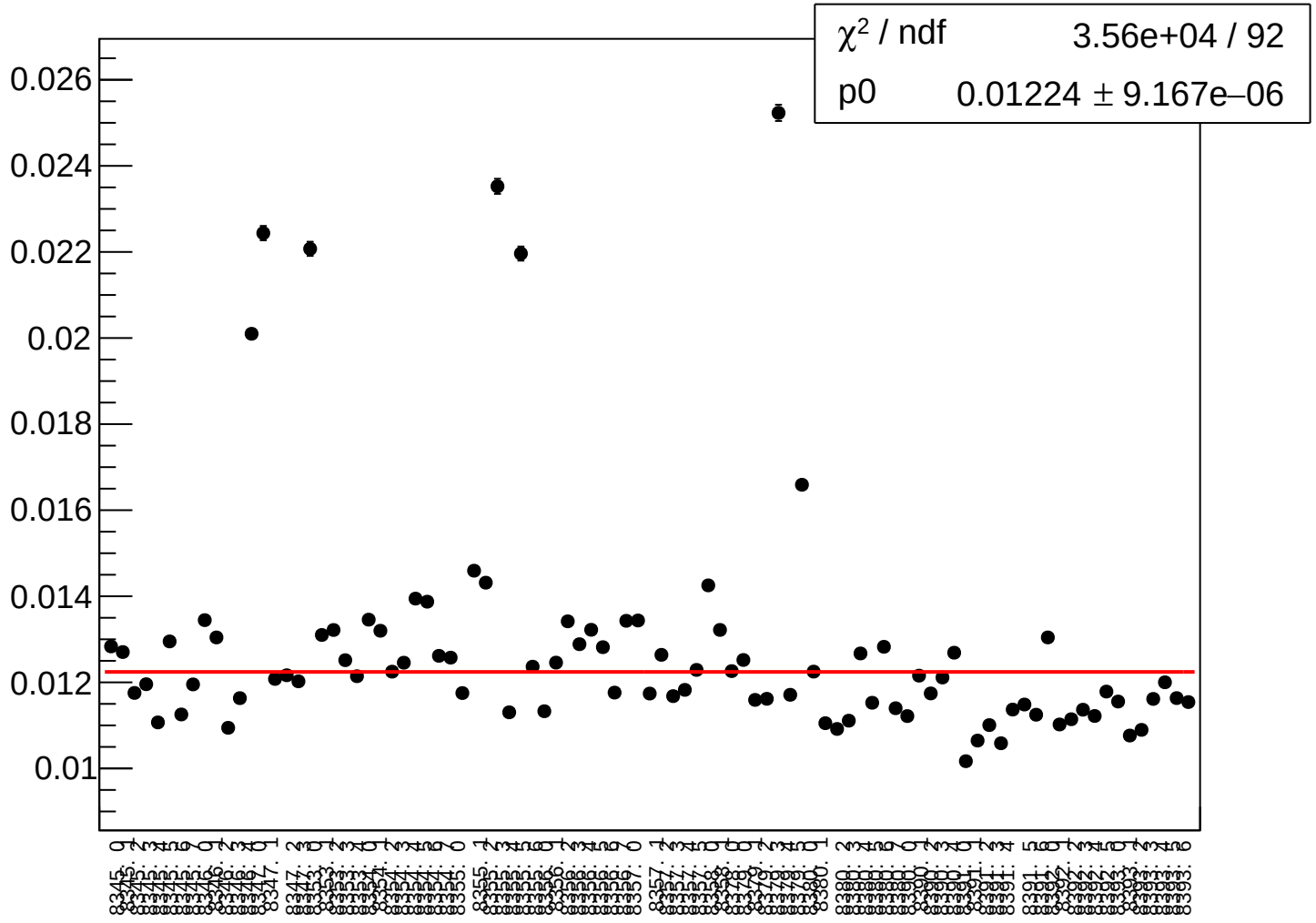

pull1D
Entries 93
Mean 1.742
Std Dev 5.5
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

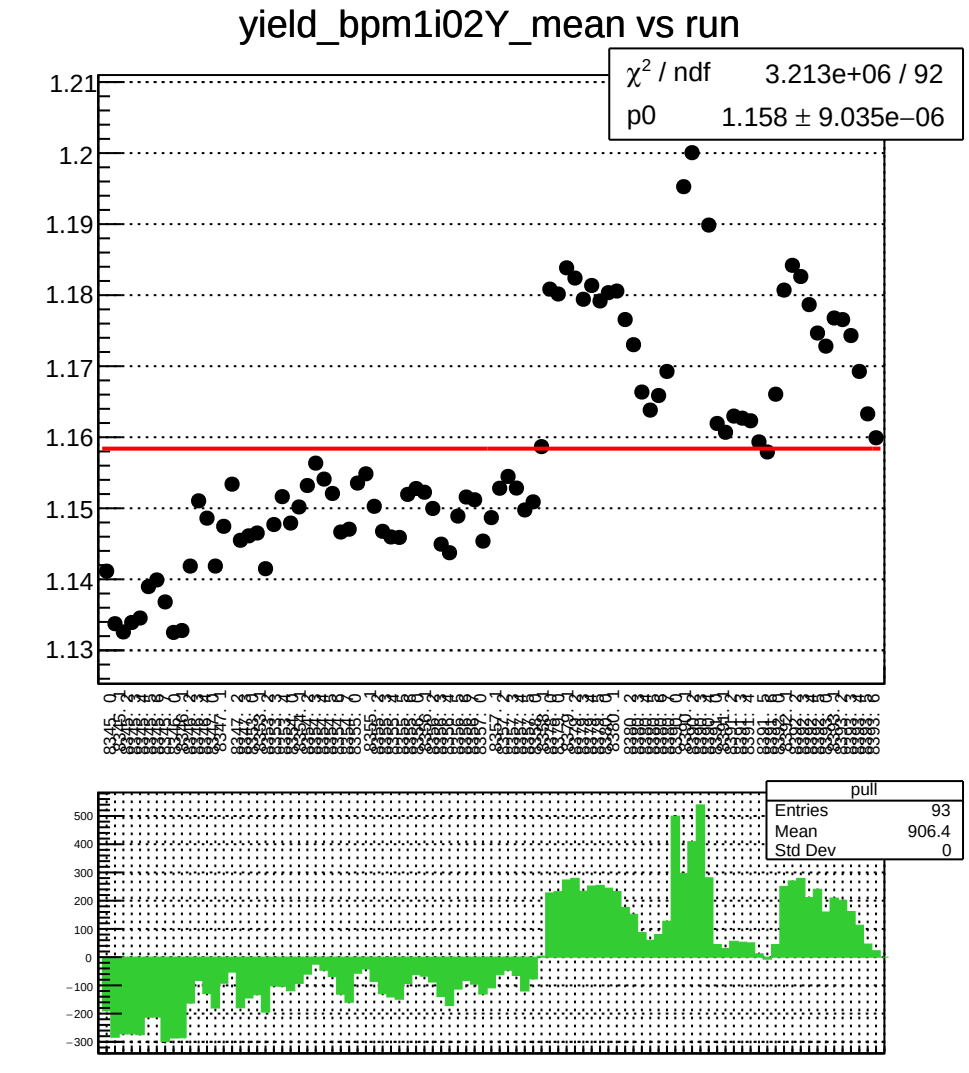

yield_bpm0i07Y_rms vs run
χ² / ndf 1.731e+05 / 92
p0 0.002089 ± 1.628e−06
0.006
0.005
0.004
0.003
0.002
0.001

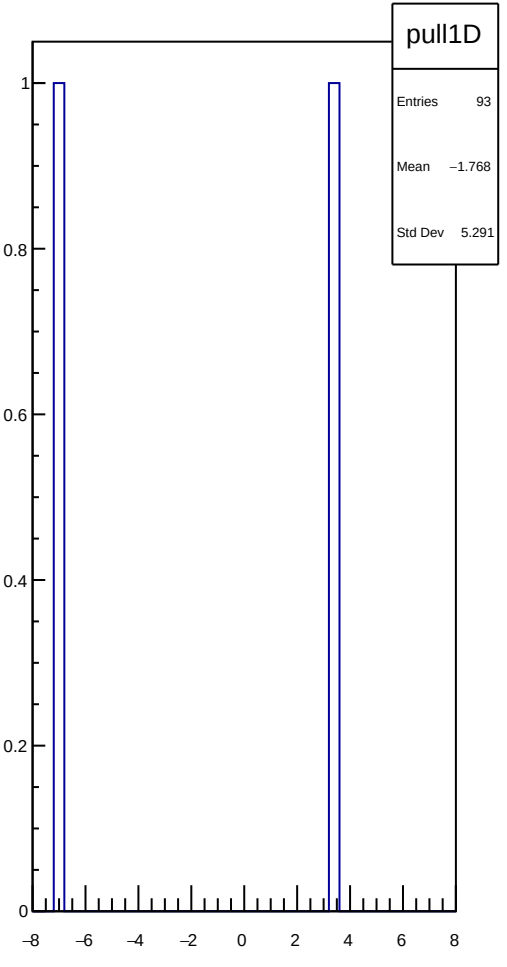

yield_bpm1i02X_mean vs run
χ² / ndf 7.074e+06 / 92
p0 0.01391± 1.296e–05
0.06
0.04
0.02
0
–0.02
–0.04
–0.06
pull
Entries 93
Mean –576.4
Std Dev 0
200
0
–200
–400
–600

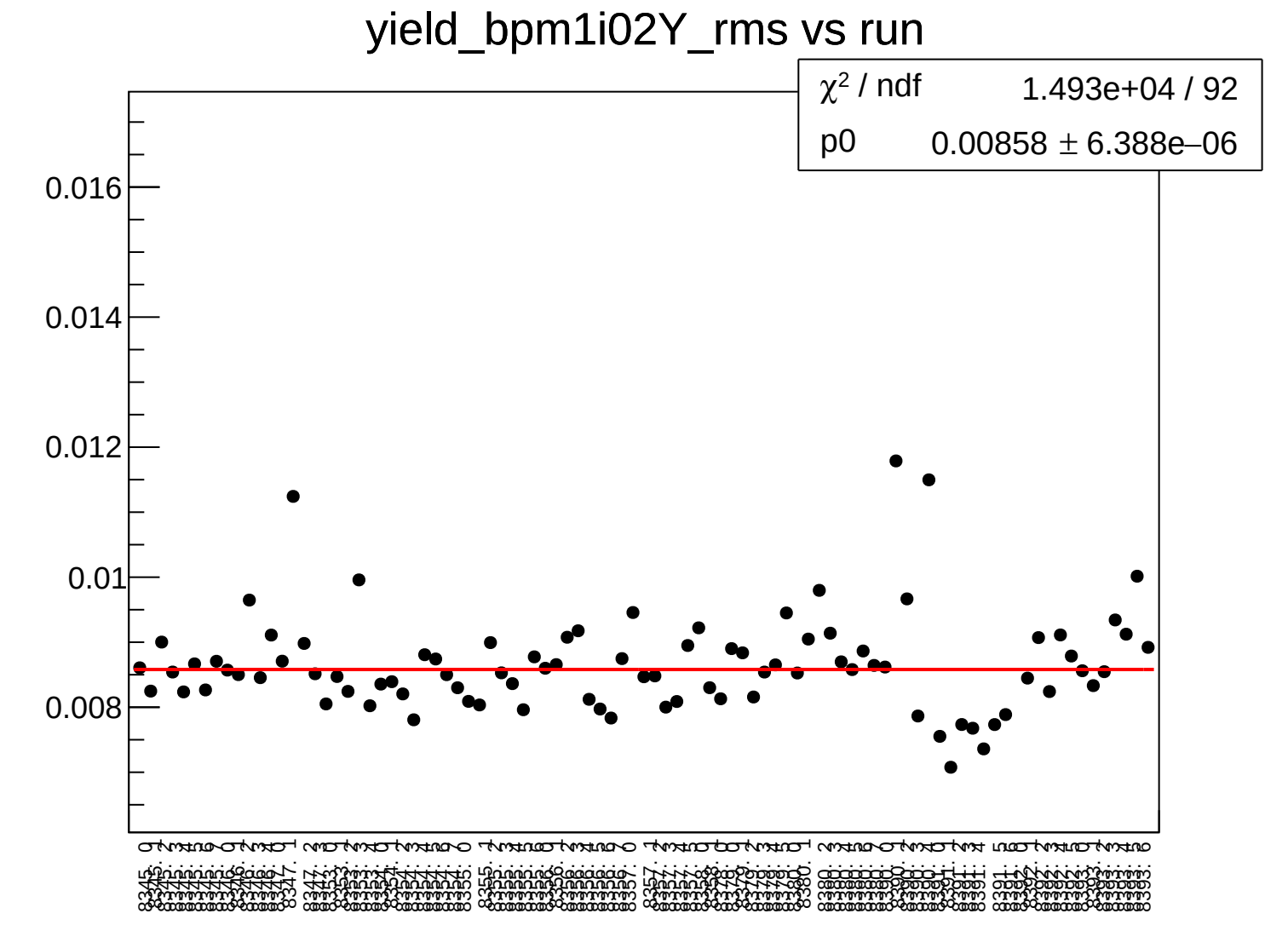

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

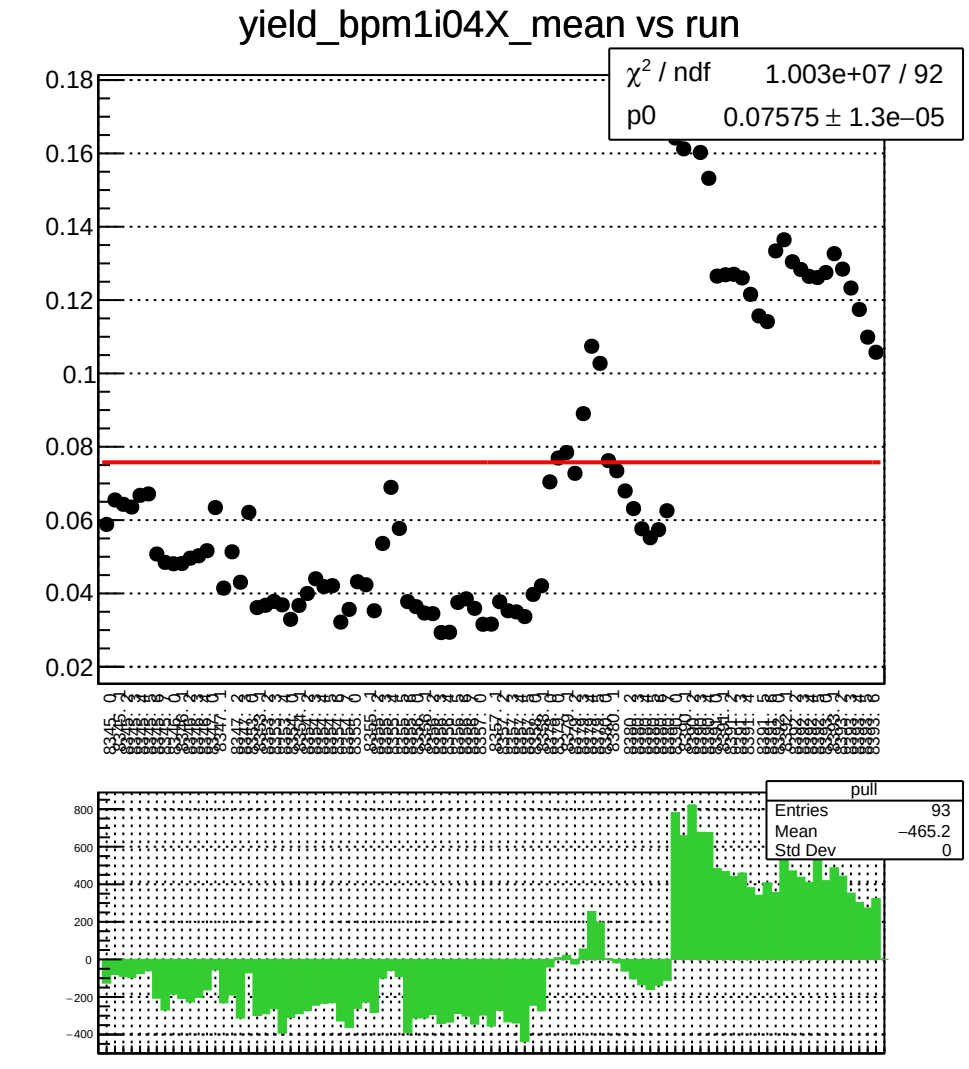
yield_bpm1i02X_rms vs run

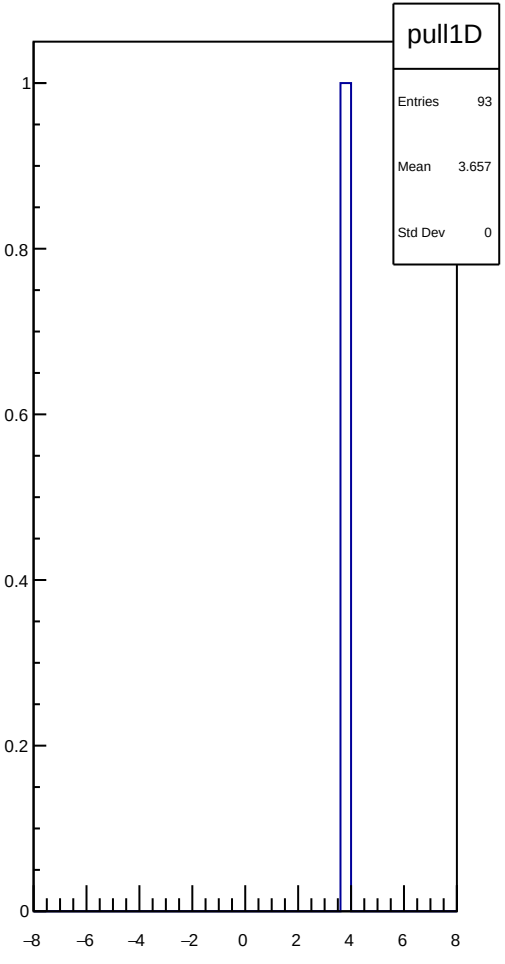


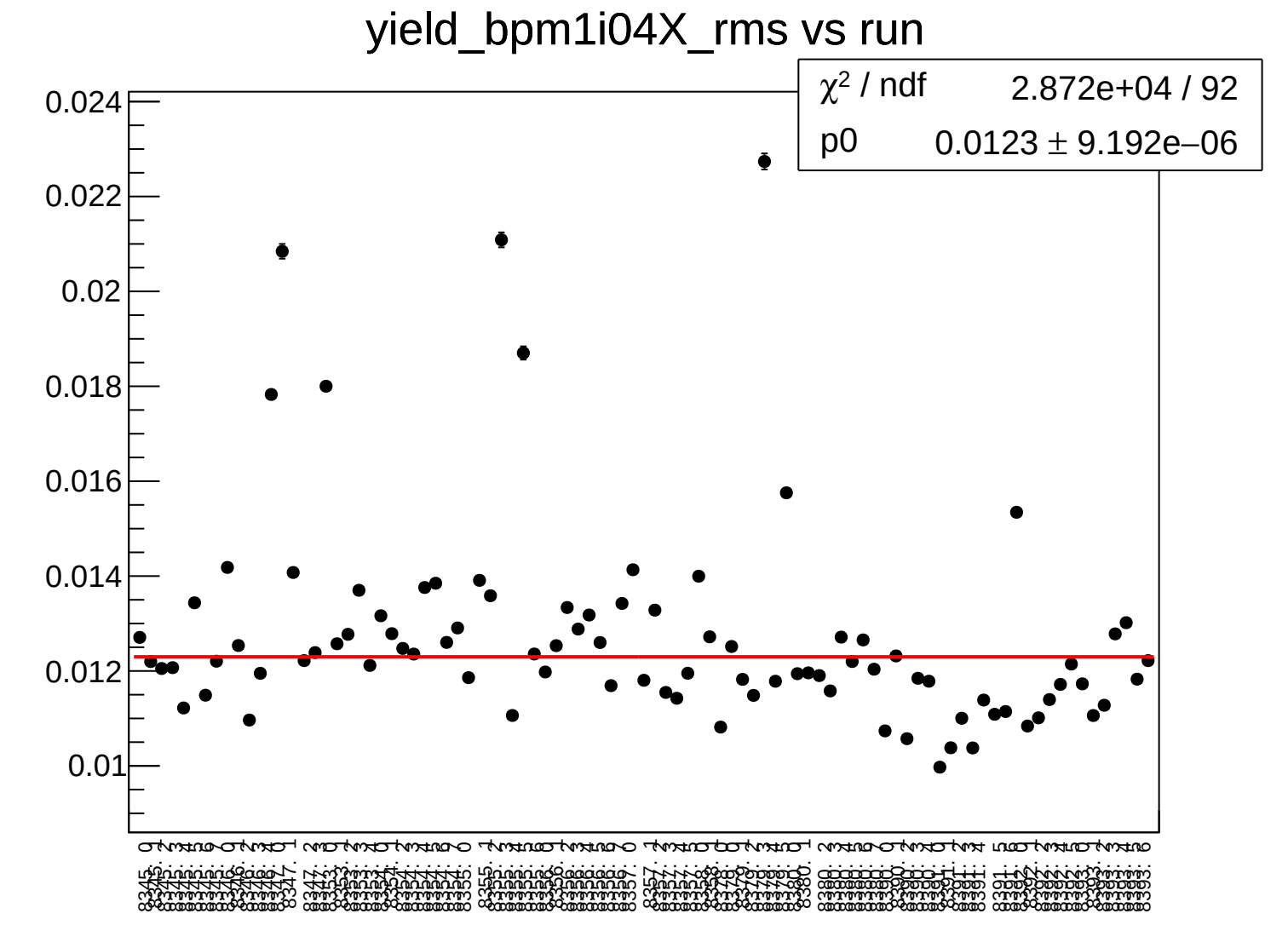

yield_bpm1i02Y_mean vs run
χ² / ndf 3.213e+06 / 92
p0 1.158 ± 9.035e−06
1.21
1.2
1.19
1.18
1.17
1.16
1.15
1.14
1.13
pull
Entries 93
Mean 906.4
Std Dev 0
500
400
300
200
100
0
−100
−200
−300

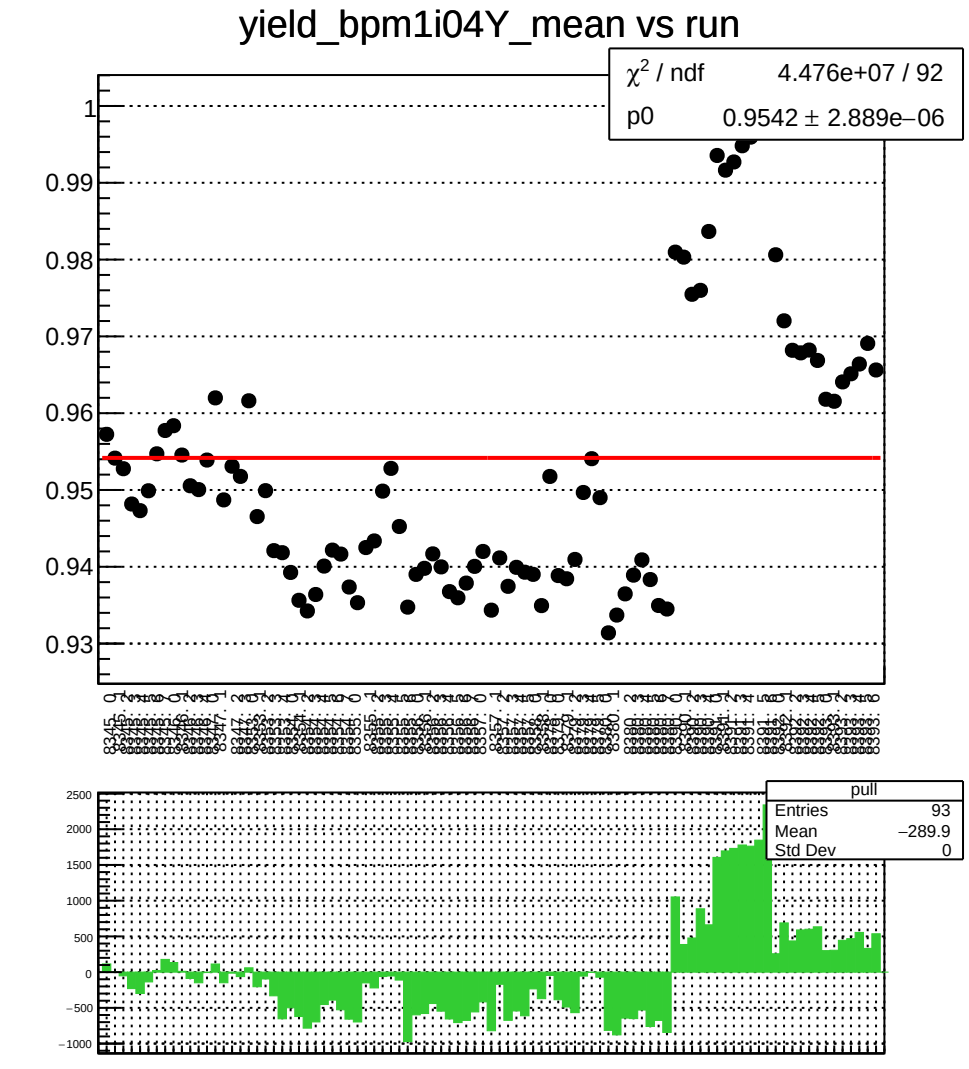

pull1D
Entries 93
Mean −1.768
Std Dev 5.291
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

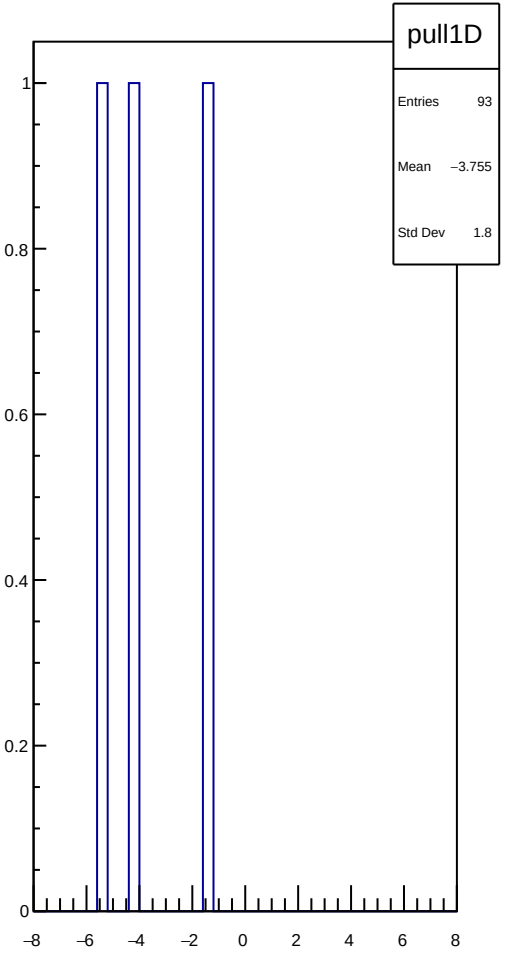

yield_bpm1i02Y_rms vs run
χ² / ndf 1.493e+04 / 92
p0 0.00858 ± 6.388e–06
0.016
0.014
0.012
0.01
0.008

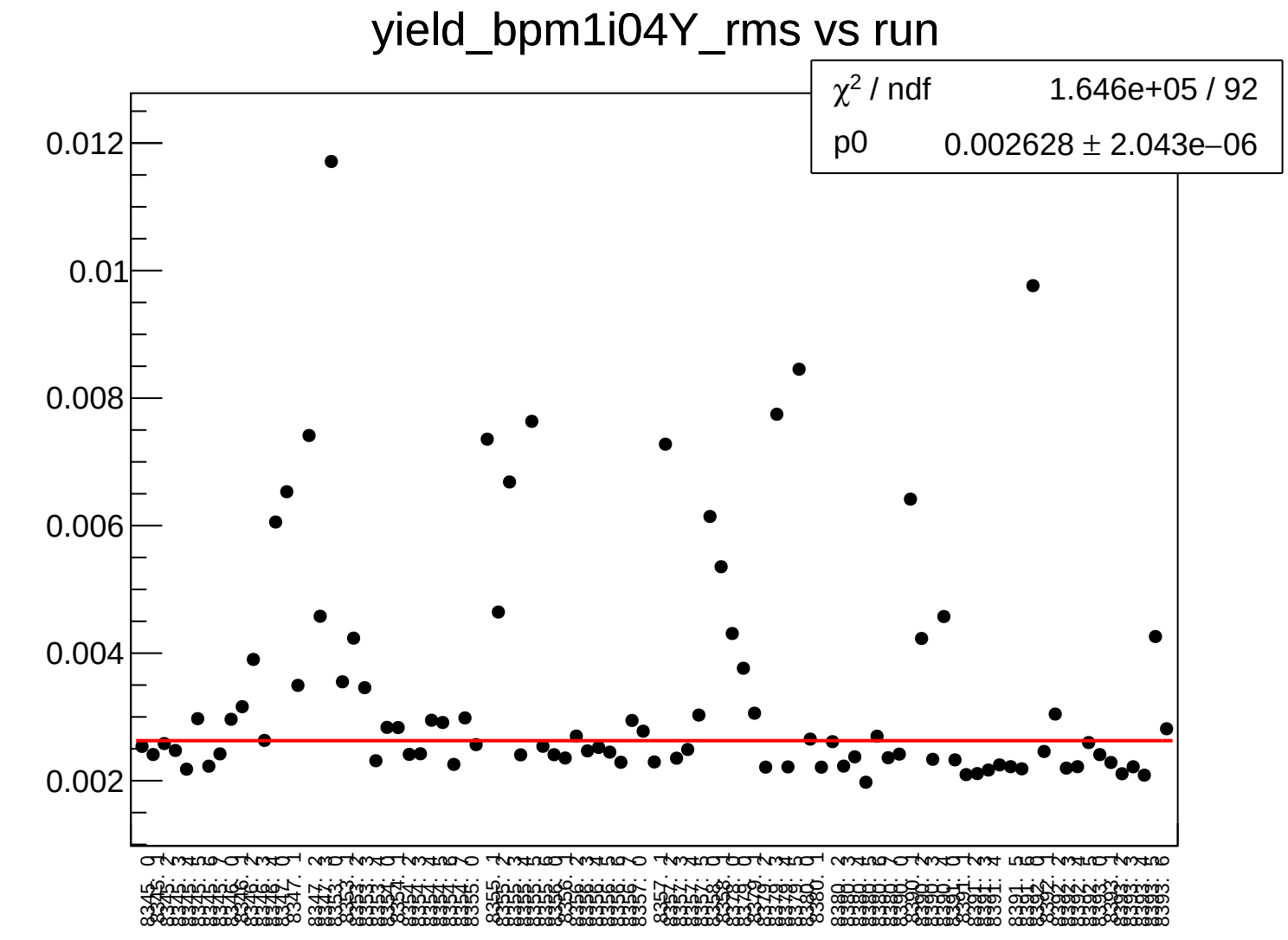

yield_bpm1i04X_mean vs run
χ² / ndf 1.003e+07 / 92
p0 0.07575 ± 1.3e−05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
pull
Entries 93
Mean −465.2
Std Dev 0
800
600
400
200
0
−200
−400

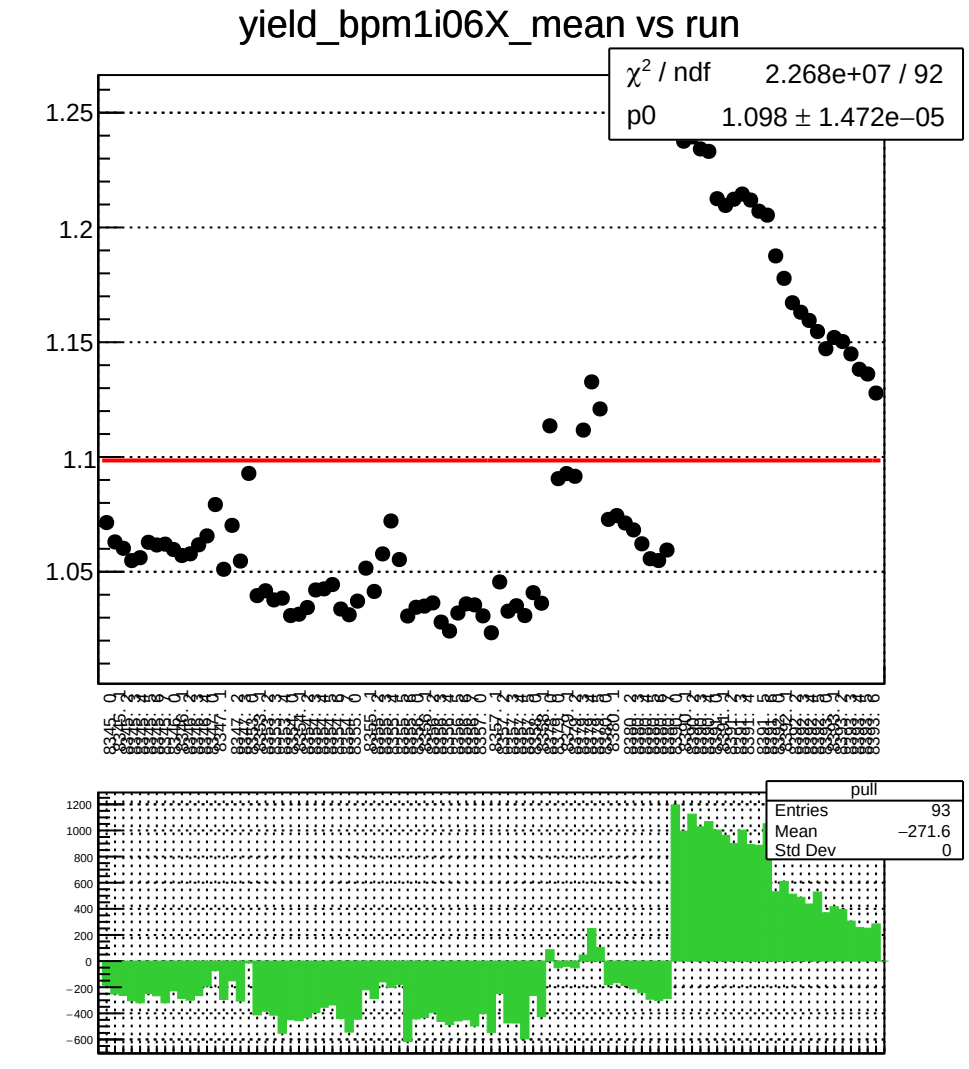

pull1D
Entries 93
Mean 3.657
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

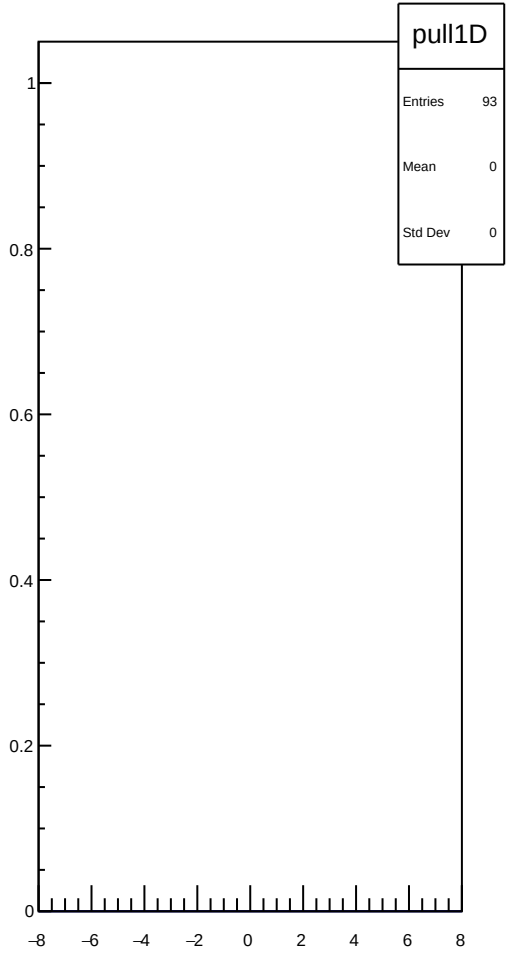

yield_bpm1i04X_rms vs run
χ² / ndf 2.872e+04 / 92
p0 0.0123 ± 9.192e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

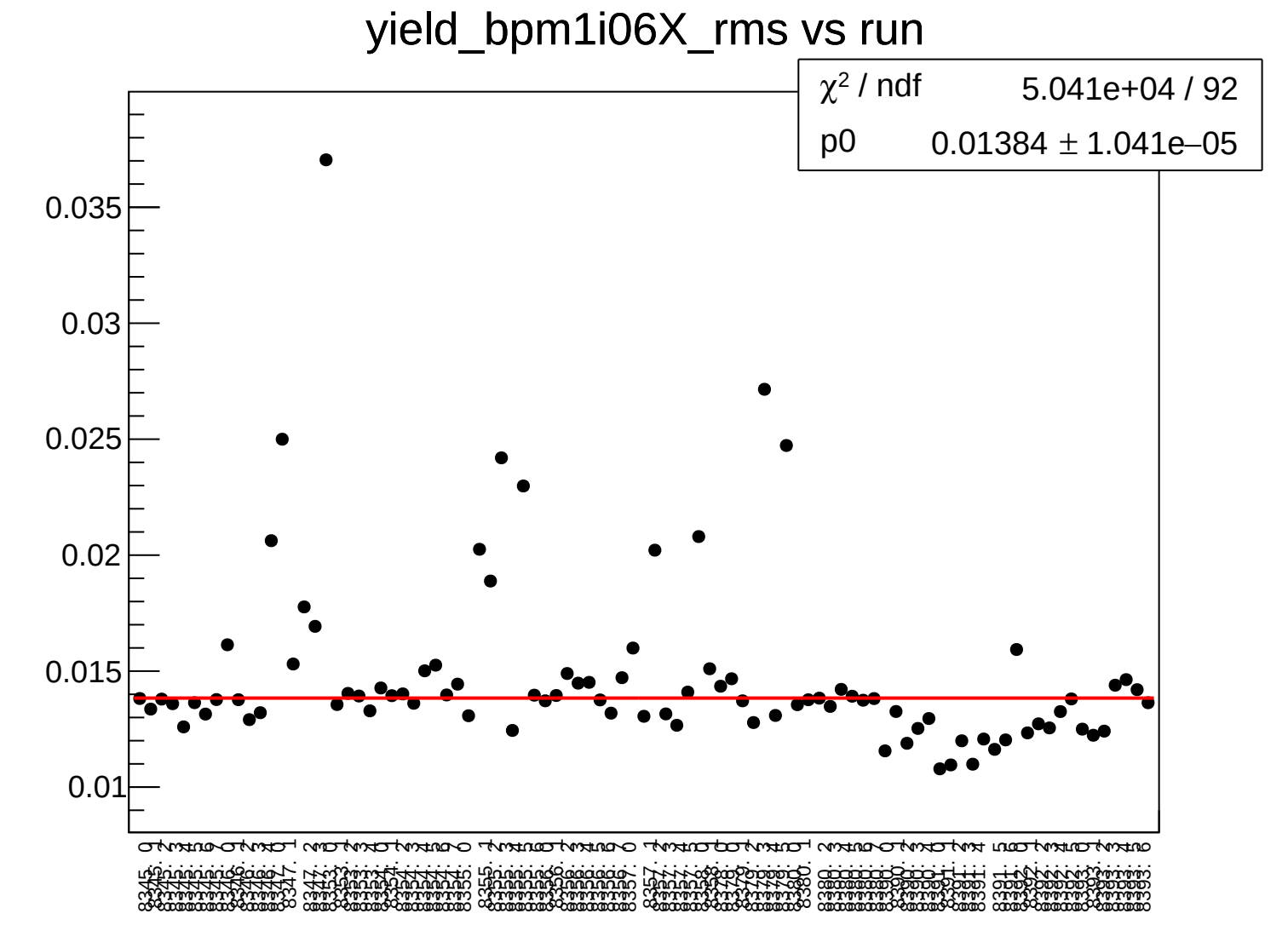

yield_bpm1i04Y_mean vs run
χ² / ndf 4.476e+07 / 92
p0 0.9542 ± 2.889e−06
pull
Entries 93
Mean −289.9
Std Dev 0

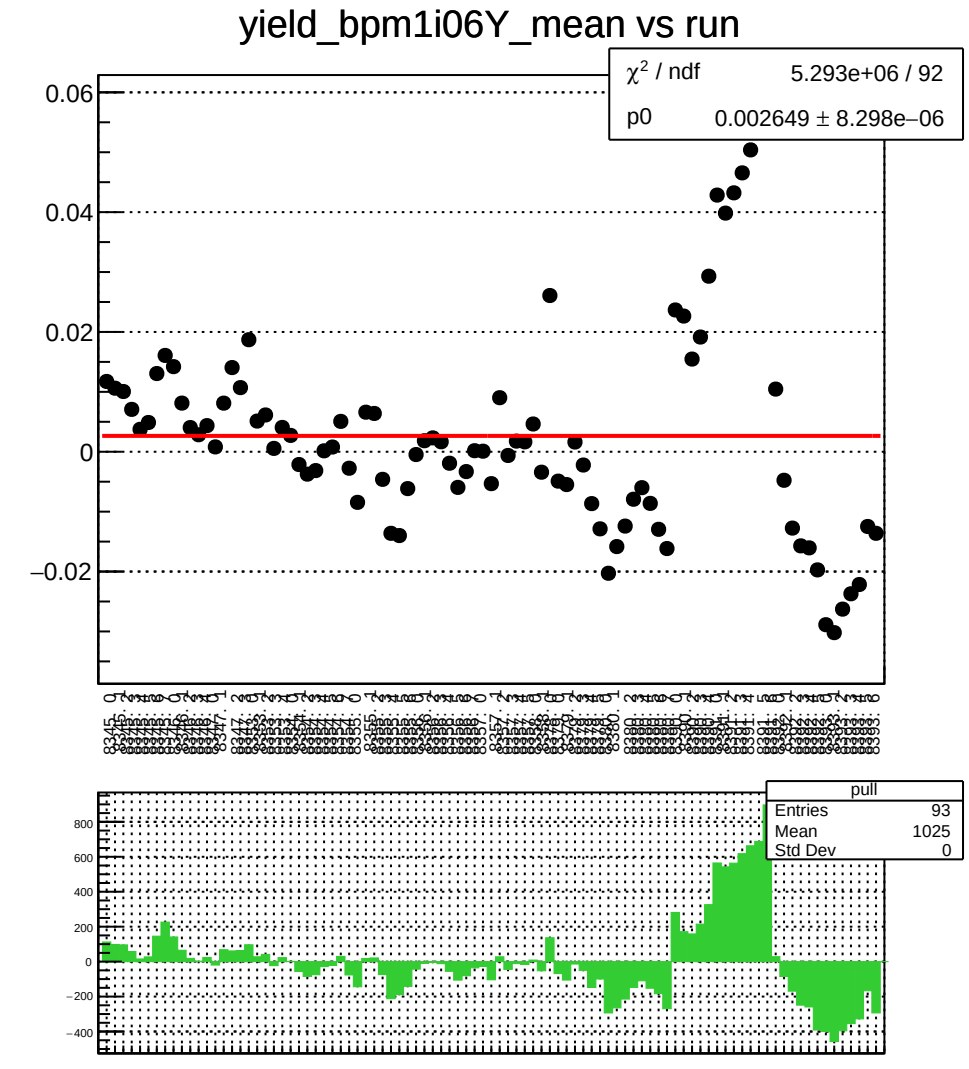

pull1D
Entries 93
Mean −3.755
Std Dev 1.8

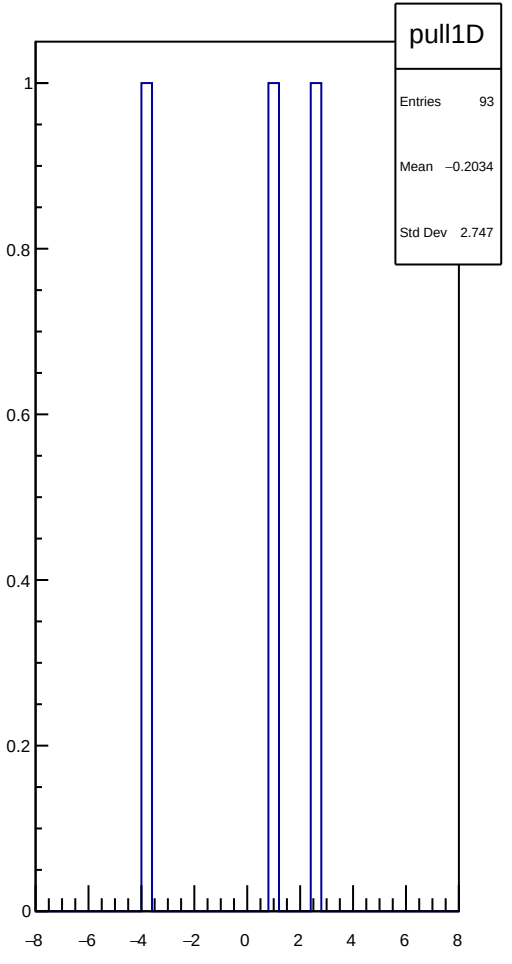

yield_bpm1i04Y_rms vs run
χ² / ndf 1.646e+05 / 92
p0 0.002628 ± 2.043e−06
0.012
0.01
0.008
0.006
0.004
0.002

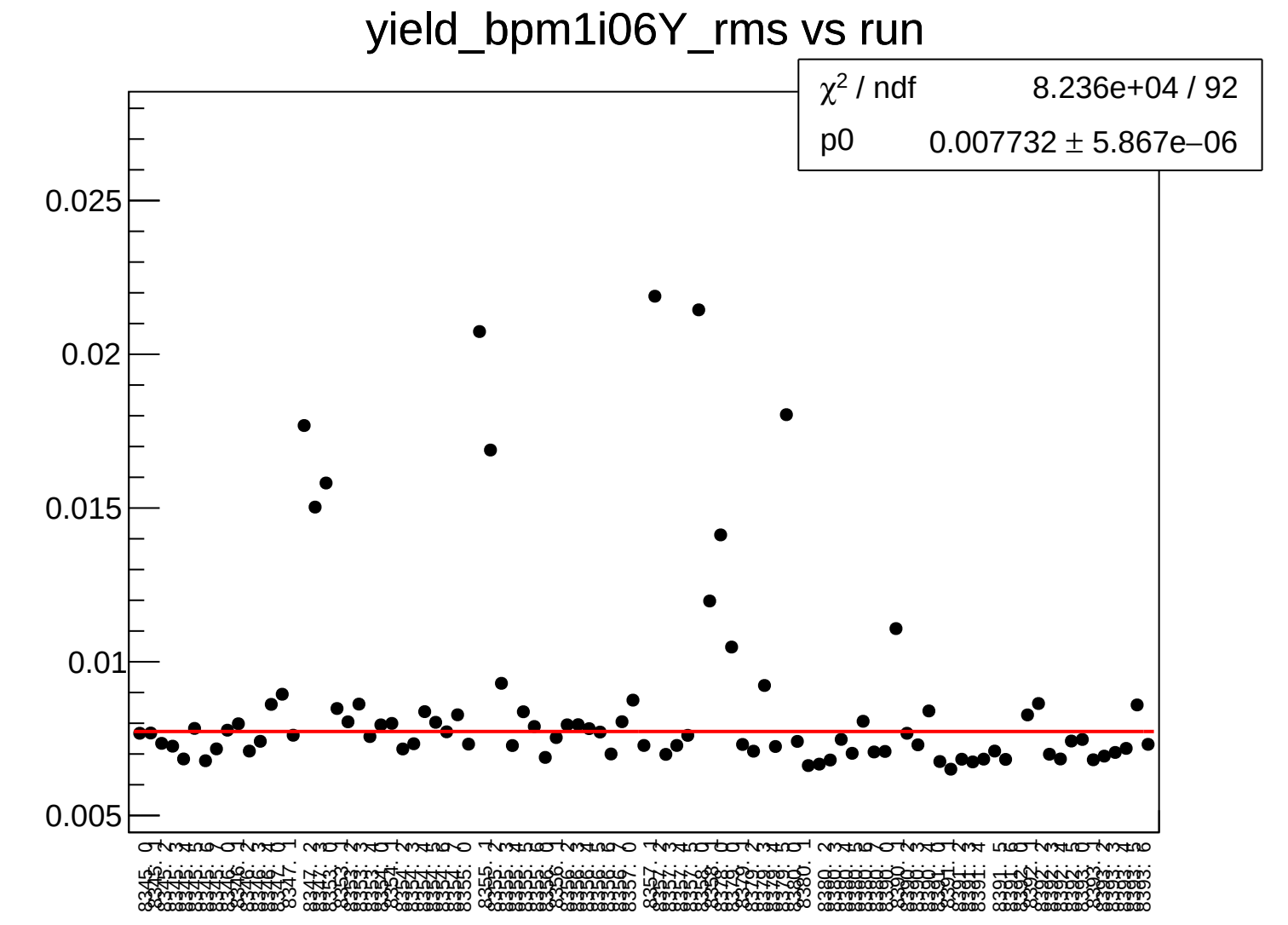

yield_bpm1i06X_mean vs run
χ² / ndf 2.268e+07 / 92
p0 1.098 ± 1.472e−05
1.25
1.2
1.15
1.1
1.05
pull
Entries 93
Mean −271.6
Std Dev 0
1200
1000
800
600
400
200
0
−200
−400
−600

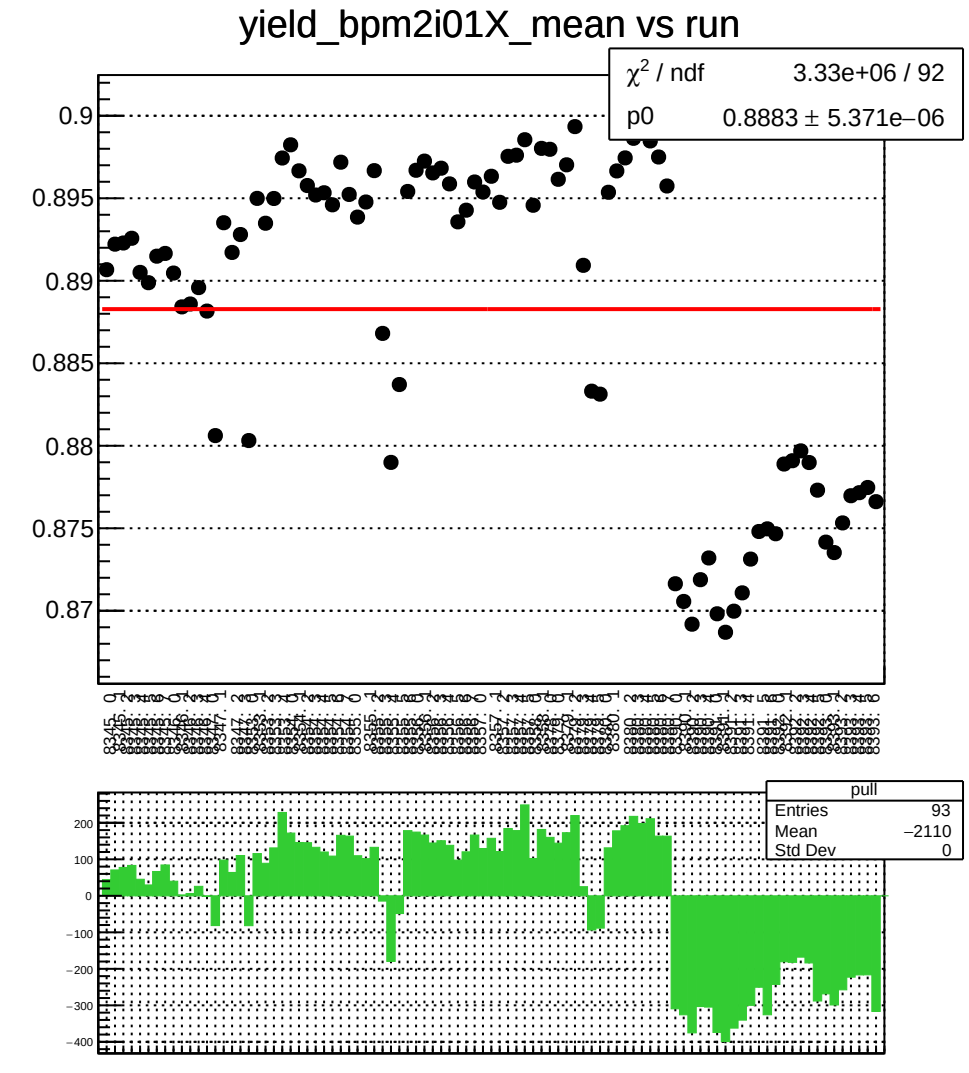

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

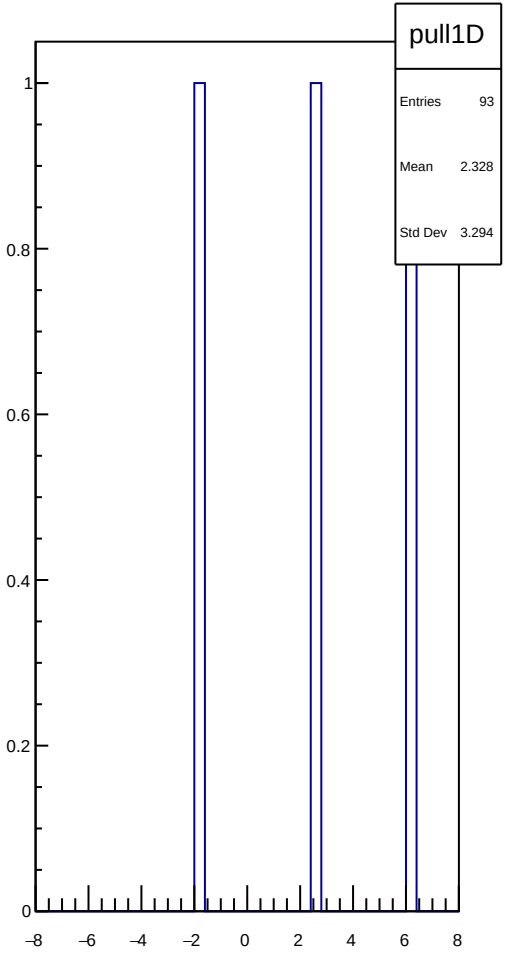

yield_bpm1i06X_rms vs run
χ² / ndf 5.041e+04 / 92
p0 0.01384 ± 1.041e−05
0.035
0.03
0.025
0.02
0.015
0.01

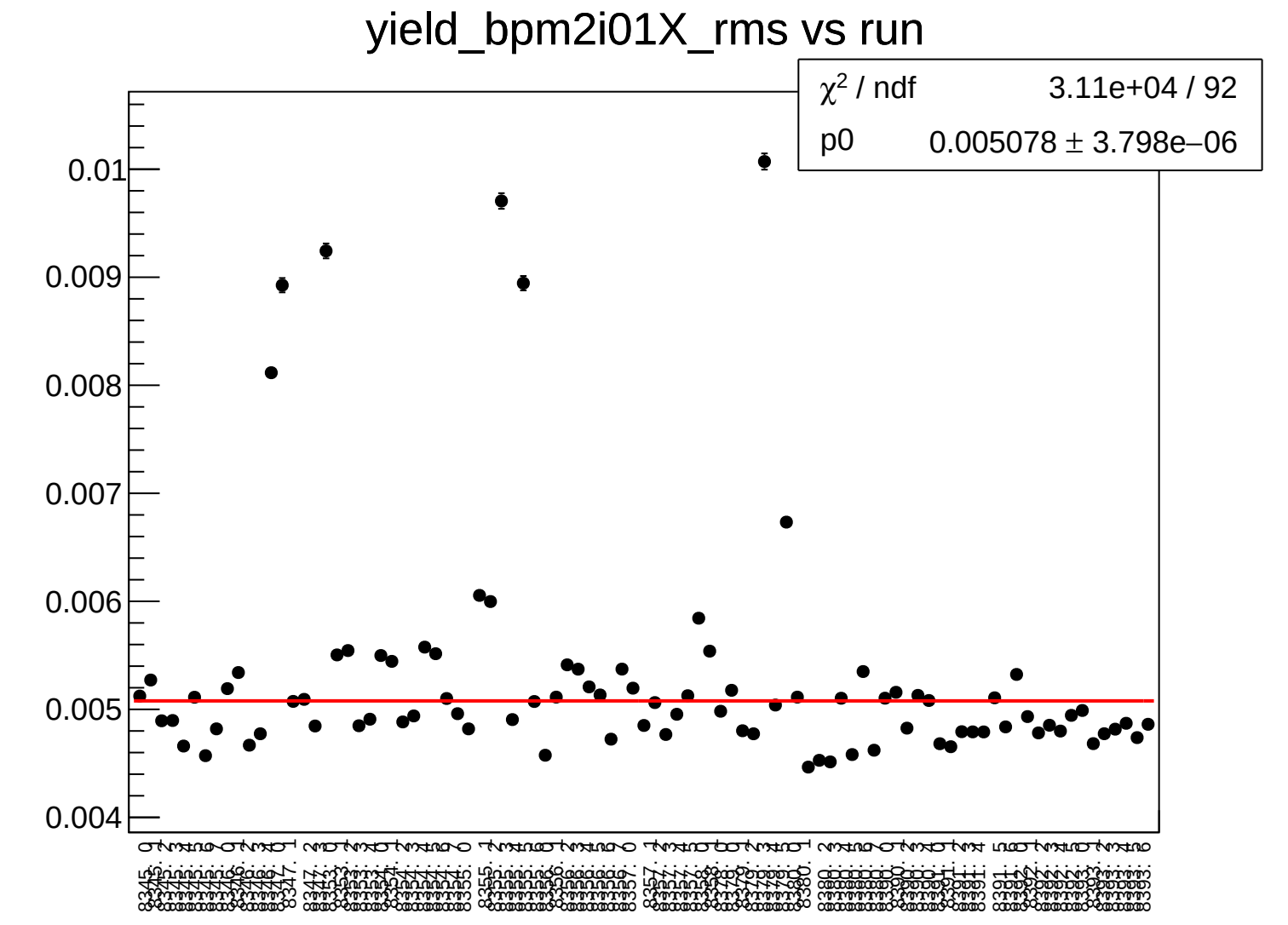

yield_bpm1i06Y_mean vs run
χ² / ndf 5.293e+06 / 92
p0 0.002649 ± 8.298e−06
0.06
0.04
0.02
0
−0.02
pull
Entries 93
Mean 1025
Std Dev 0
800
600
400
200
0
−200
−400

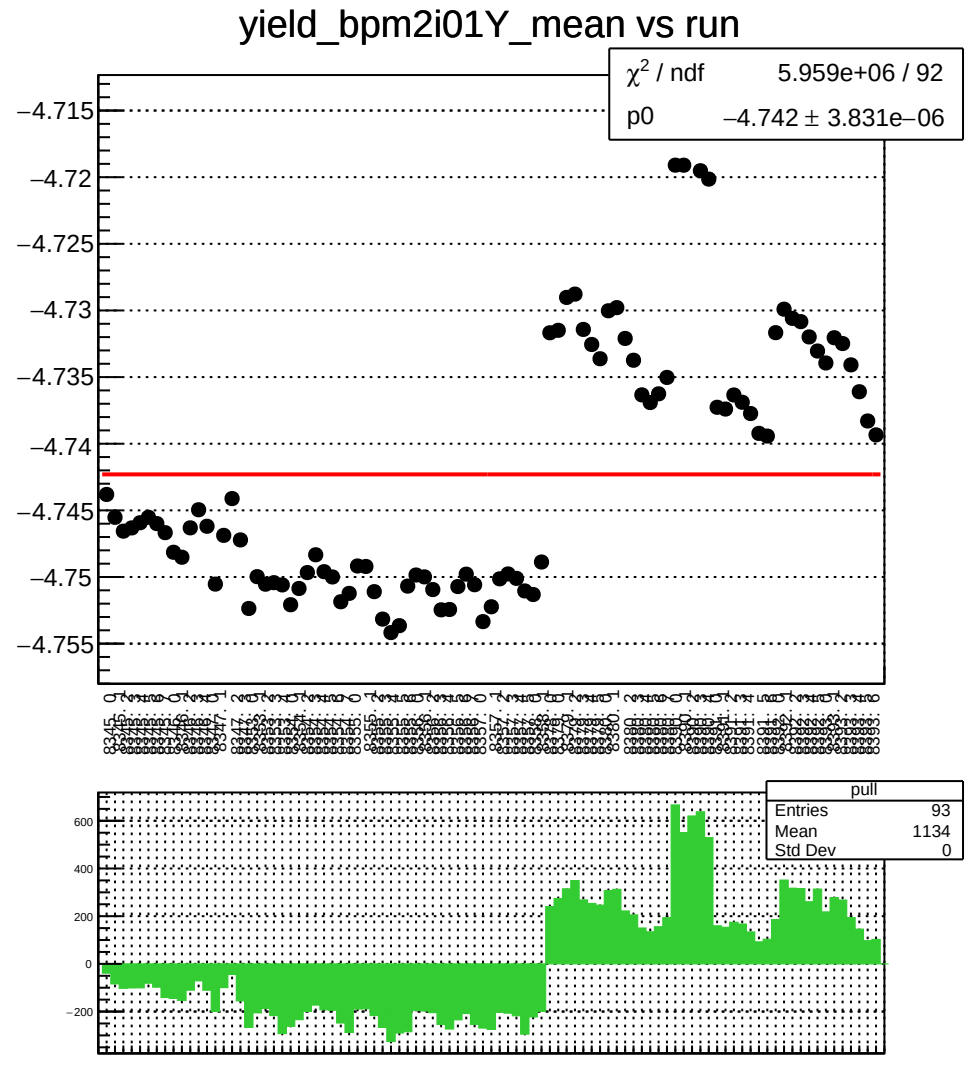

pull1D
Entries 93
Mean −0.2034
Std Dev 2.747
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

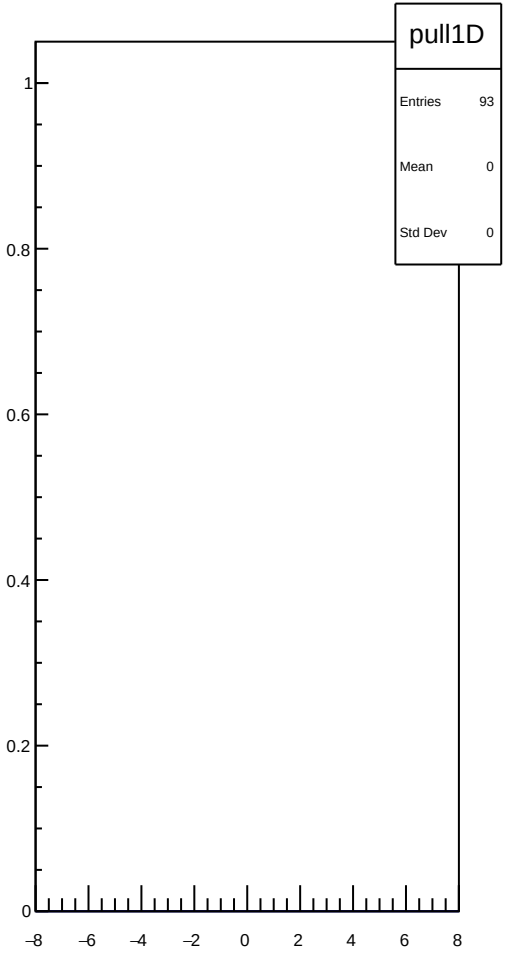

yield_bpm1i06Y_rms vs run
χ² / ndf 8.236e+04 / 92
p0 0.007732 ± 5.867e−06
0.025
0.02
0.015
0.01
0.005

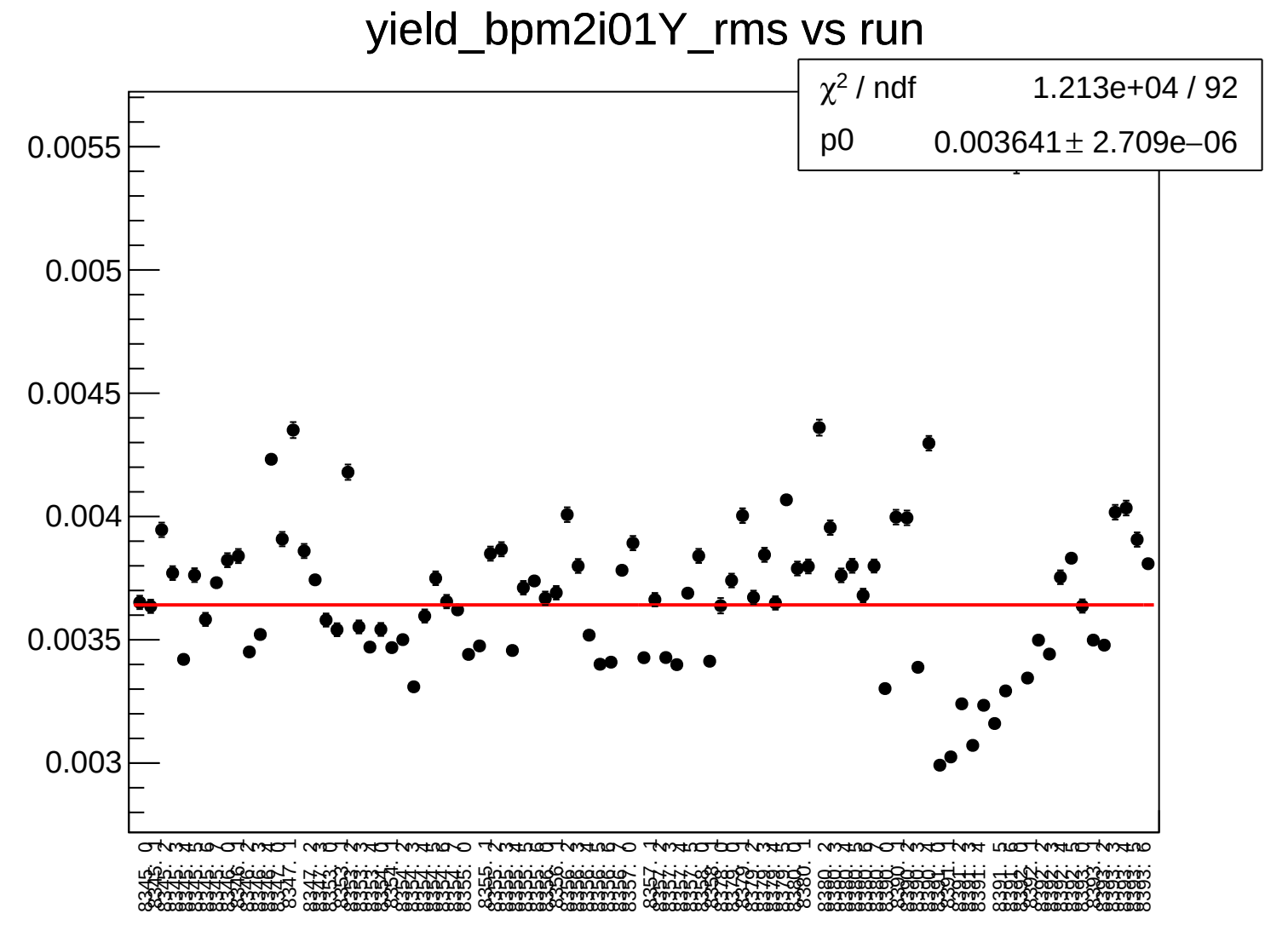

yield_bpm2i01X_mean vs run
χ² / ndf 3.33e+06 / 92
p0 0.8883 ± 5.371e−06
0.9
0.895
0.89
0.885
0.88
0.875
0.87
pull
Entries 93
Mean −2110
Std Dev 0
200
100
0
−100
−200
−300
−400

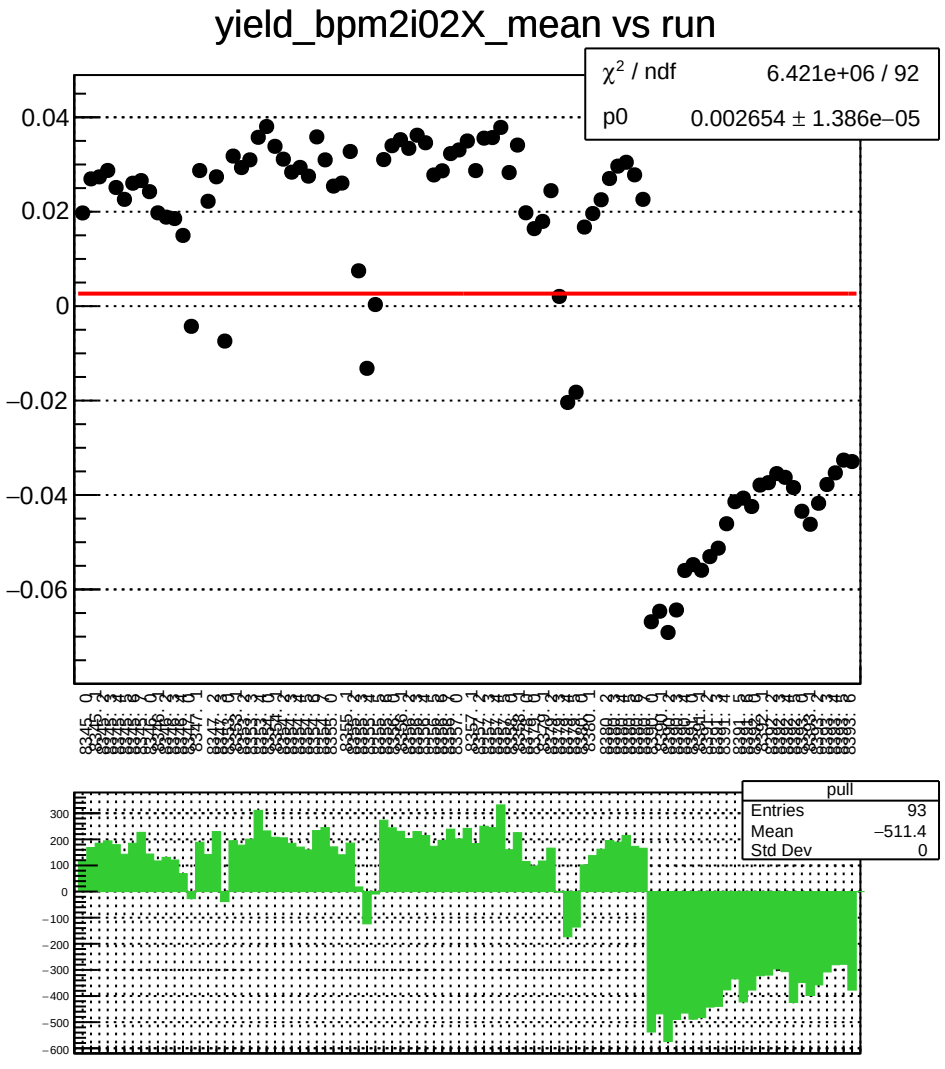

pull1D
Entries 93
Mean 2.328
Std Dev 3.294
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

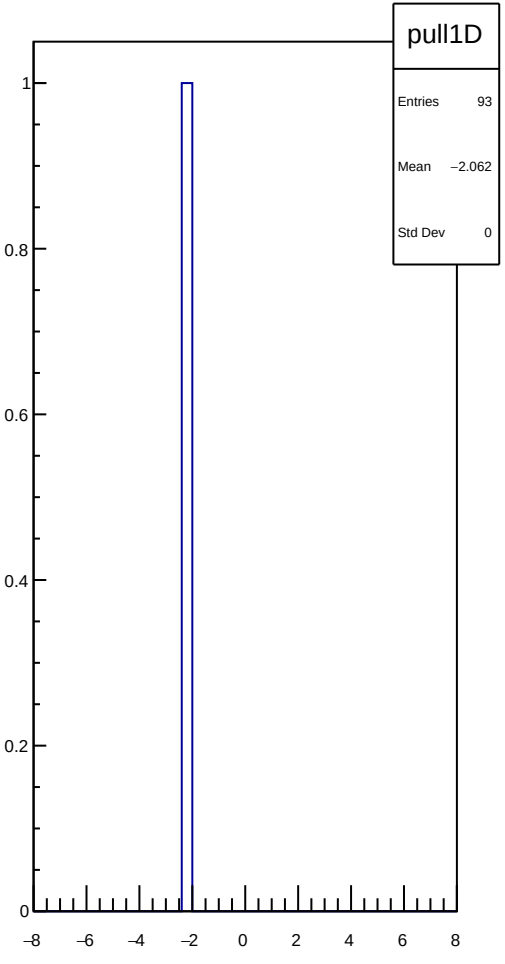

yield_bpm2i01X_rms vs run
χ^2 / ndf 3.11e+04 / 92
p0 0.005078 ± 3.798e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004

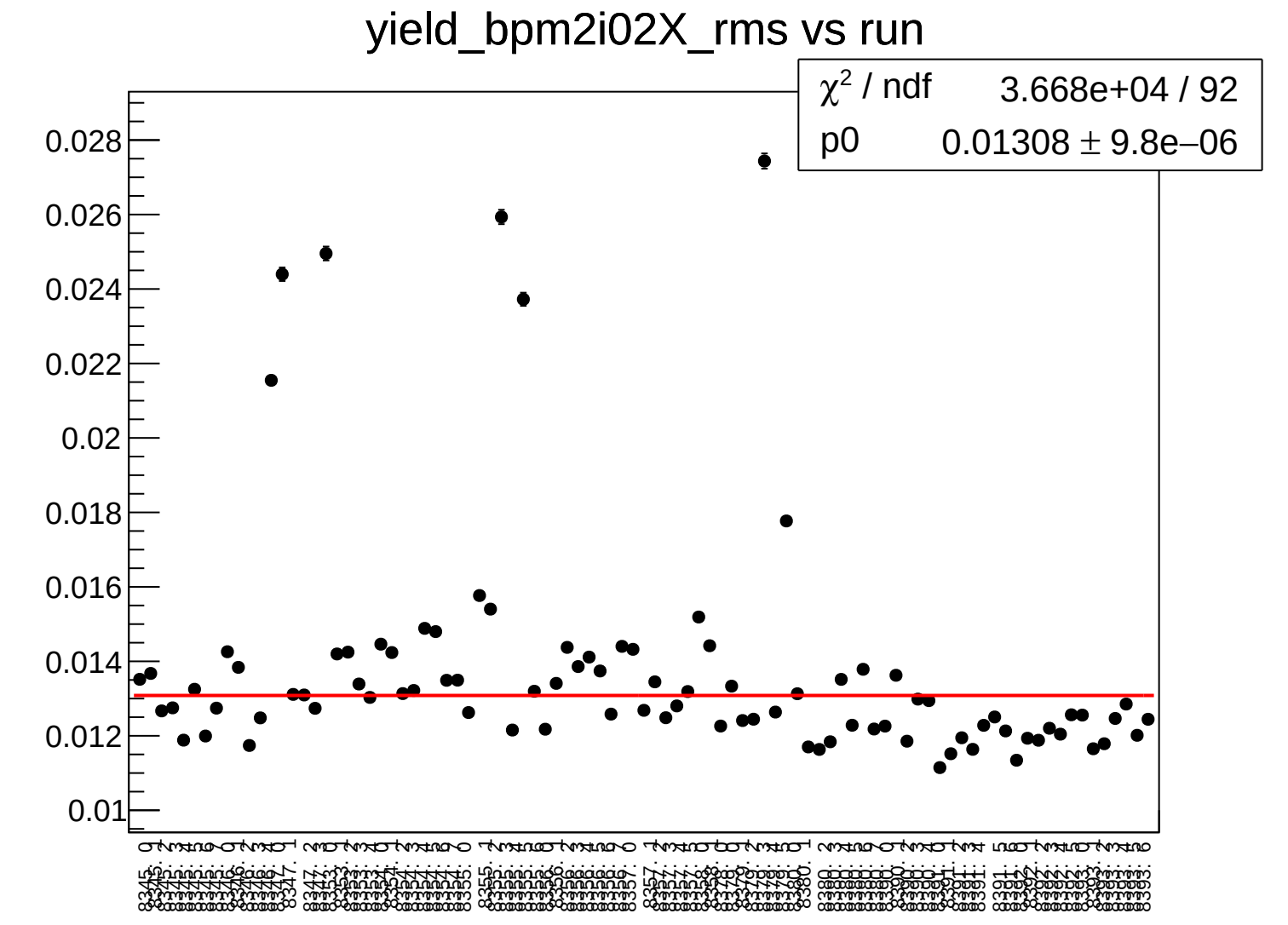

yield_bpm2i01Y_mean vs run
χ² / ndf 5.959e+06 / 92
p0 −4.742 ± 3.831e−06
−4.715
−4.72
−4.725
−4.73
−4.735
−4.74
−4.745
−4.75
−4.755
pull
Entries 93
Mean 1134
Std Dev 0
600
400
200
0
−200

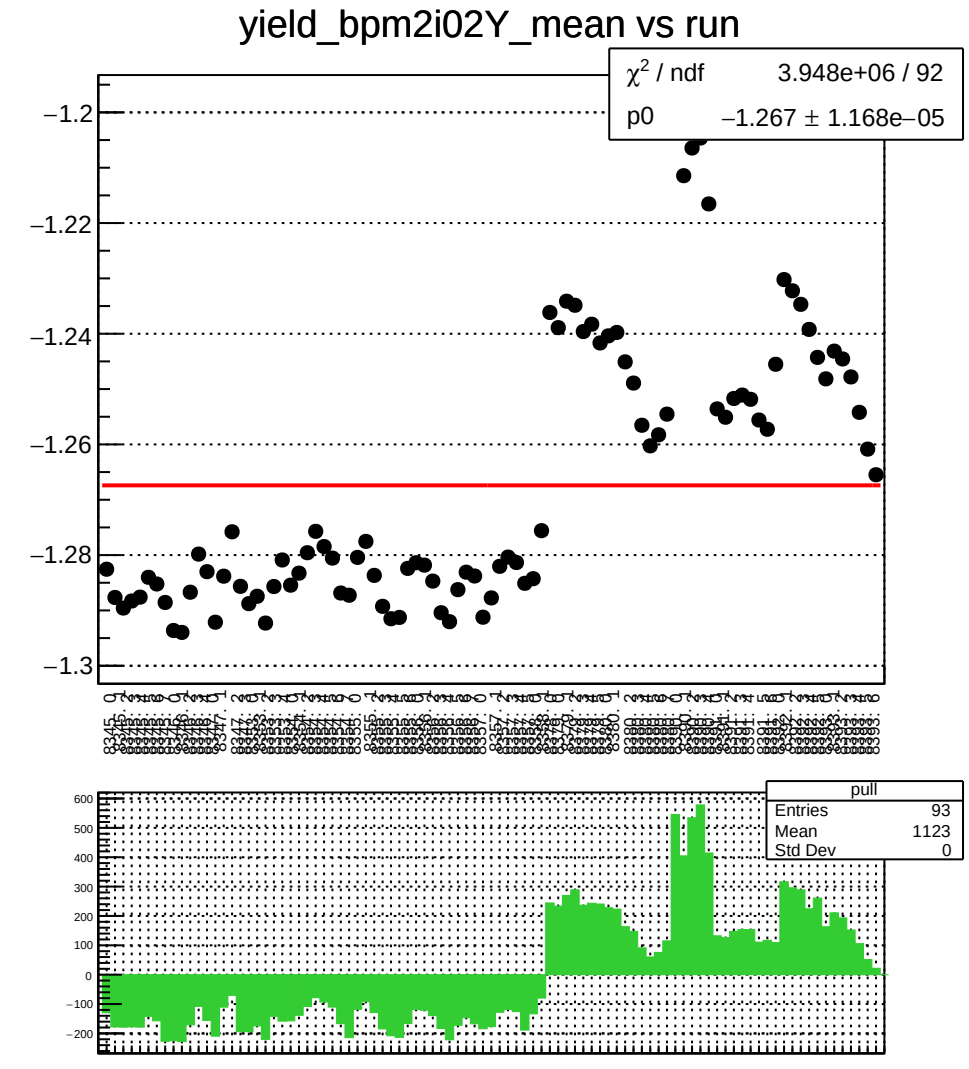

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

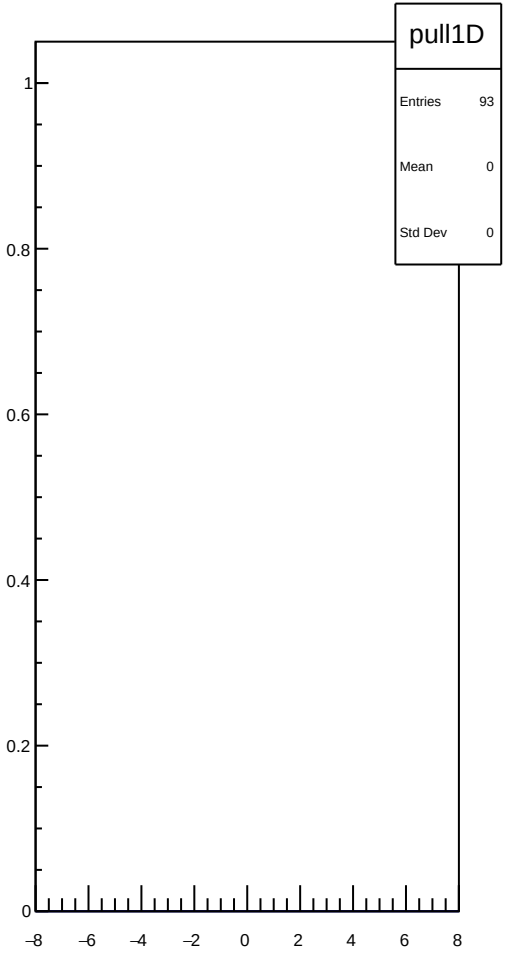

yield_bpm2i01Y_rms vs run
χ² / ndf 1.213e+04 / 92
p0 0.003641 ± 2.709e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003

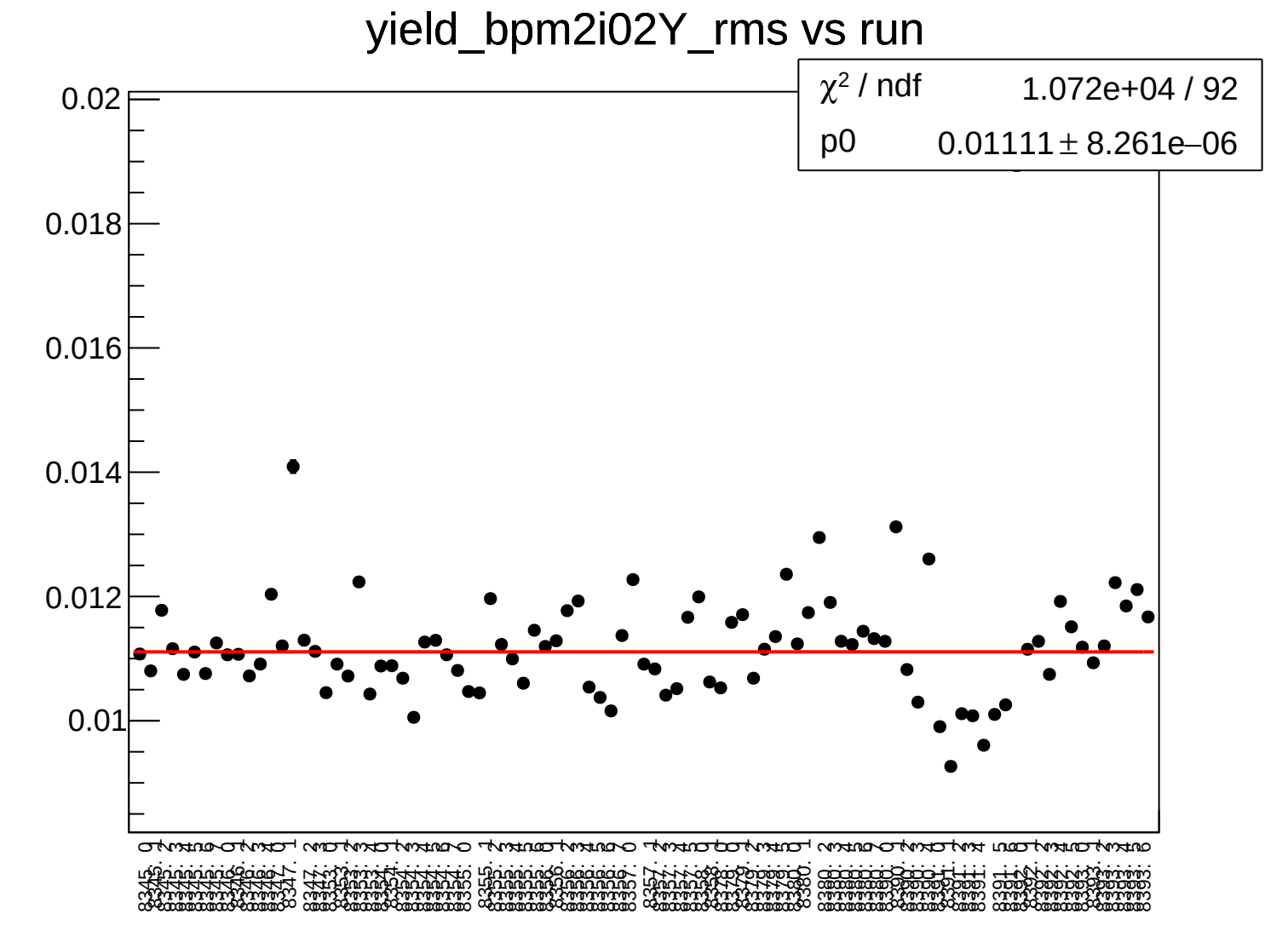

yield_bpm2i02X_mean vs run
χ² / ndf 6.421e+06 / 92
p0 0.002654 ± 1.386e−05
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 93
Mean −511.4
Std Dev 0
300
200
100
0
−100
−200
−300
−400
−500
−600

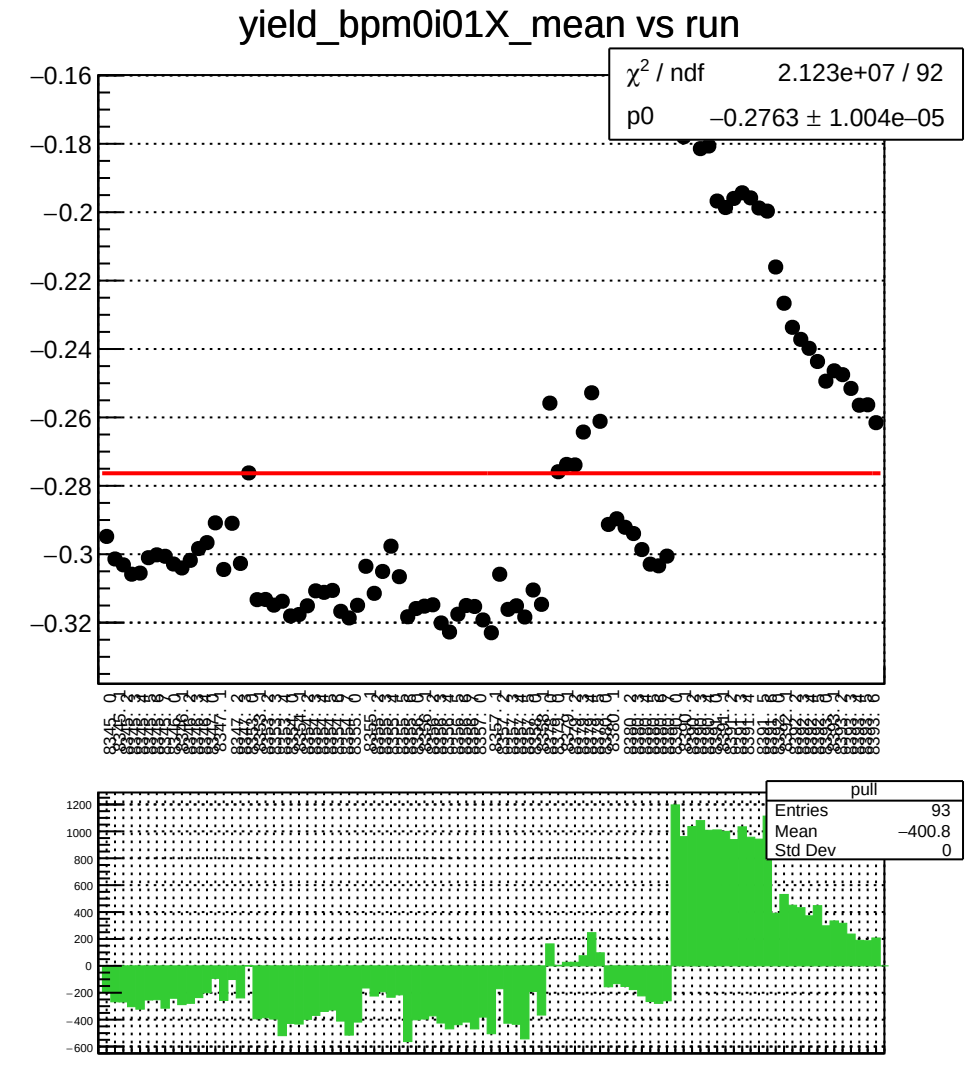

pull1D
Entries 93
Mean −2.062
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

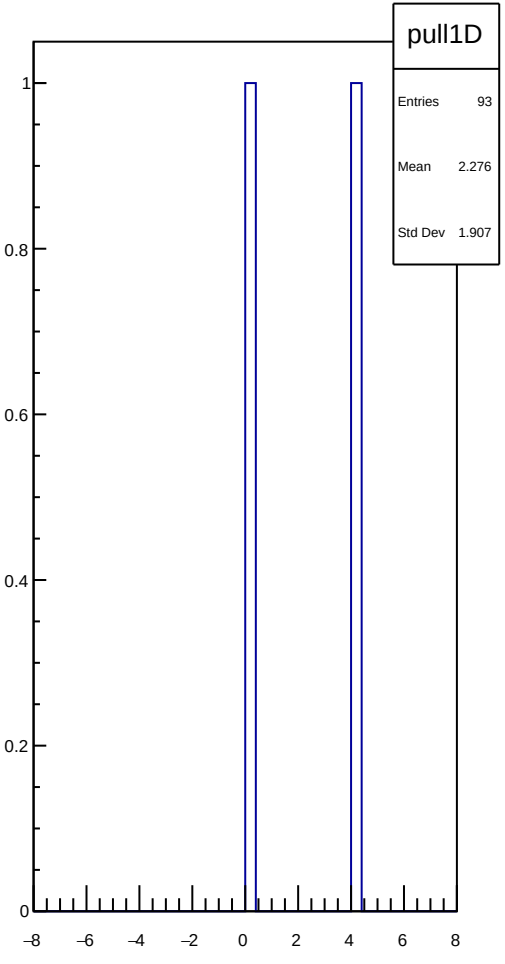

yield_bpm2i02X_rms vs run
χ^2 / ndf 3.668e+04 / 92
p0 0.01308 ± 9.8e−06
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

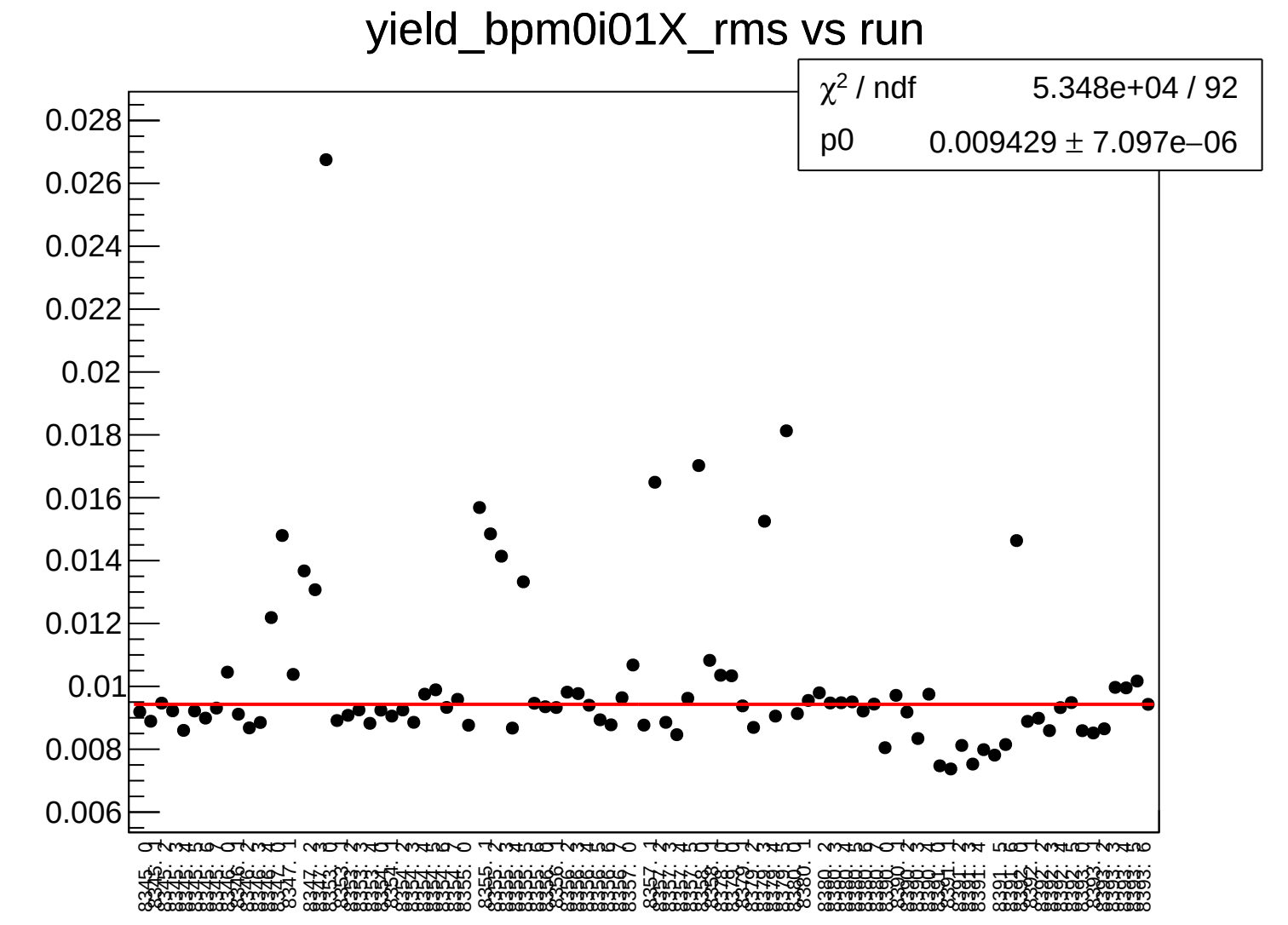

yield_bpm2i02Y_mean vs run
χ² / ndf 3.948e+06 / 92
p0 −1.267 ± 1.168e−05
−1.2
−1.22
−1.24
−1.26
−1.28
−1.3
pull
Entries 93
Mean 1123
Std Dev 0
600
500
400
300
200
100
0
−100
−200

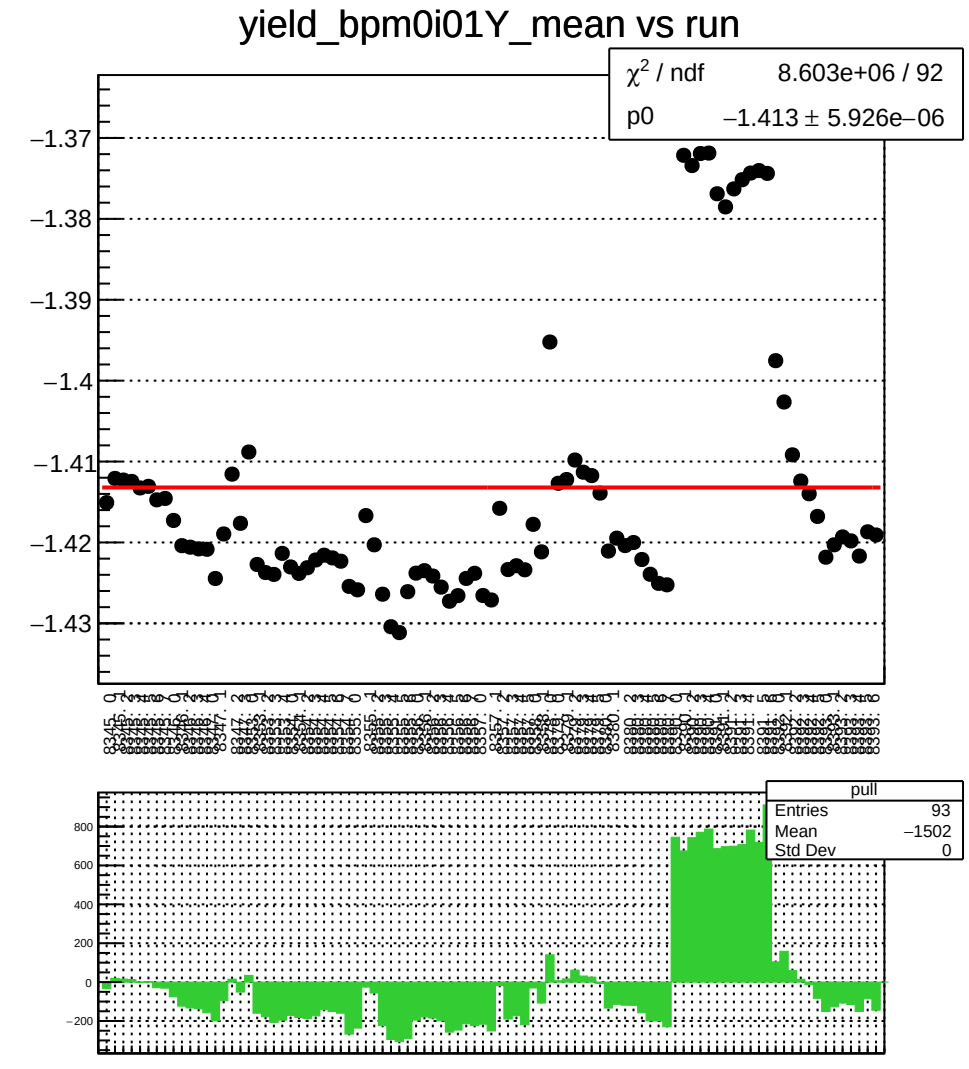

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

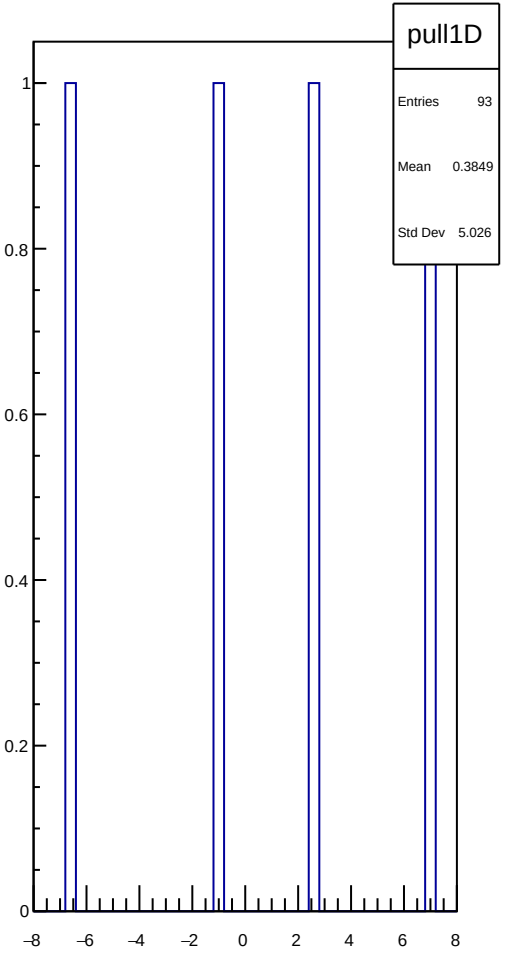

yield_bpm2i02Y_rms vs run
χ² / ndf 1.072e+04 / 92
p0 0.01111 ± 8.261e–06
0.02
0.018
0.016
0.014
0.012
0.01

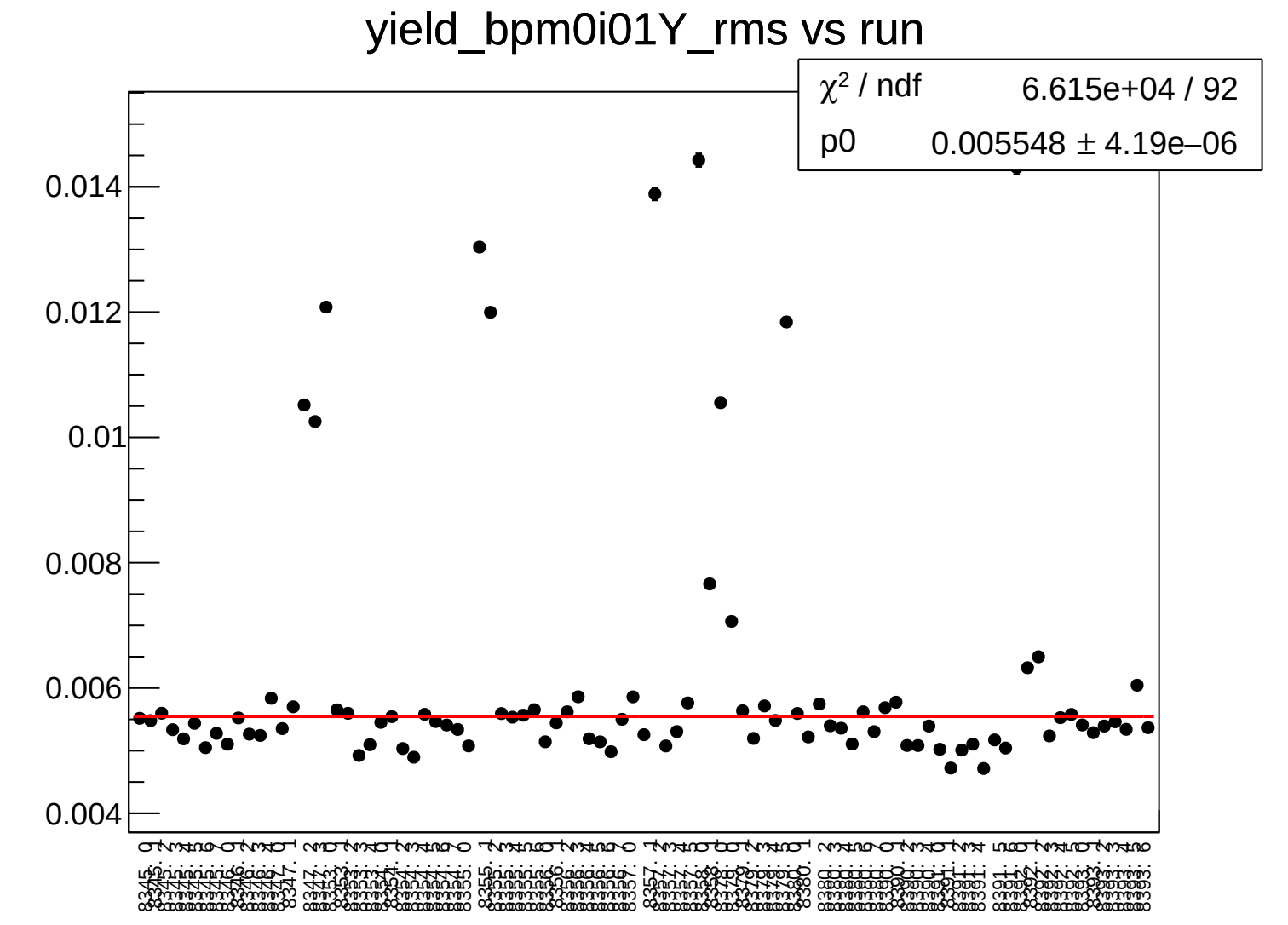

yield_bpm0i01X_mean vs run
χ² / ndf 2.123e+07 / 92
p0 −0.2763 ± 1.004e−05
−0.16
−0.18
−0.2
−0.22
−0.24
−0.26
−0.28
−0.3
−0.32
pull
Entries 93
Mean −400.8
Std Dev 0
1200
1000
800
600
400
200
0
−200
−400
−600

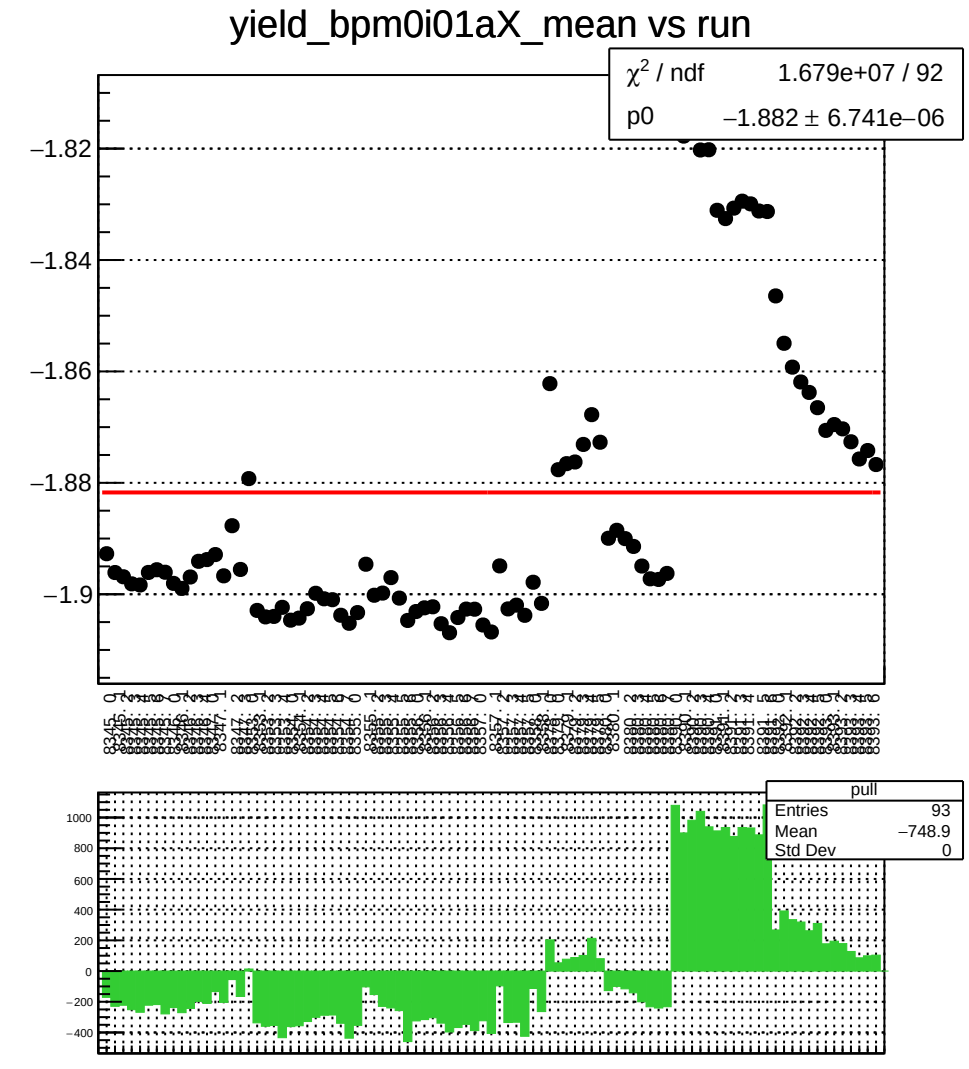

pull1D
Entries 93
Mean 2.276
Std Dev 1.907
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

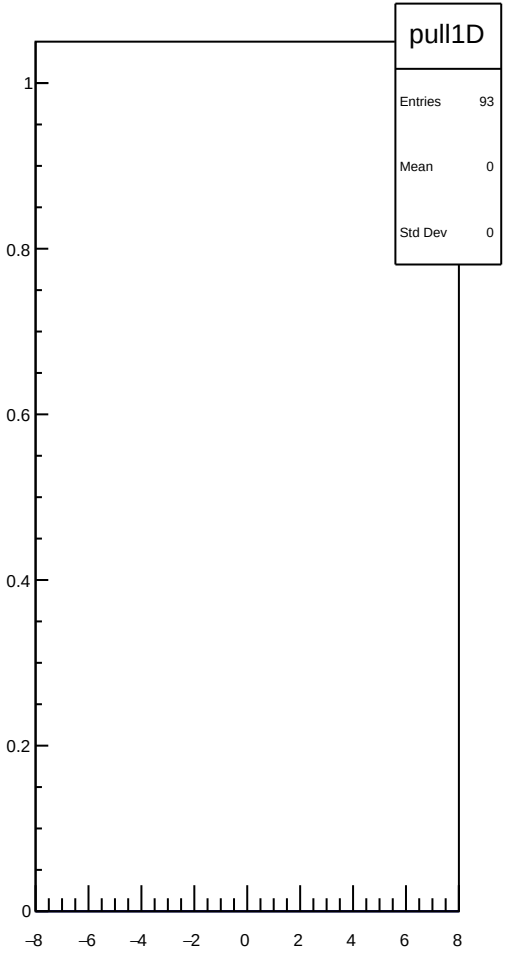

yield_bpm0i01X_rms vs run
χ^2 / ndf 5.348e+04 / 92
p0 0.009429 ± 7.097e−06
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

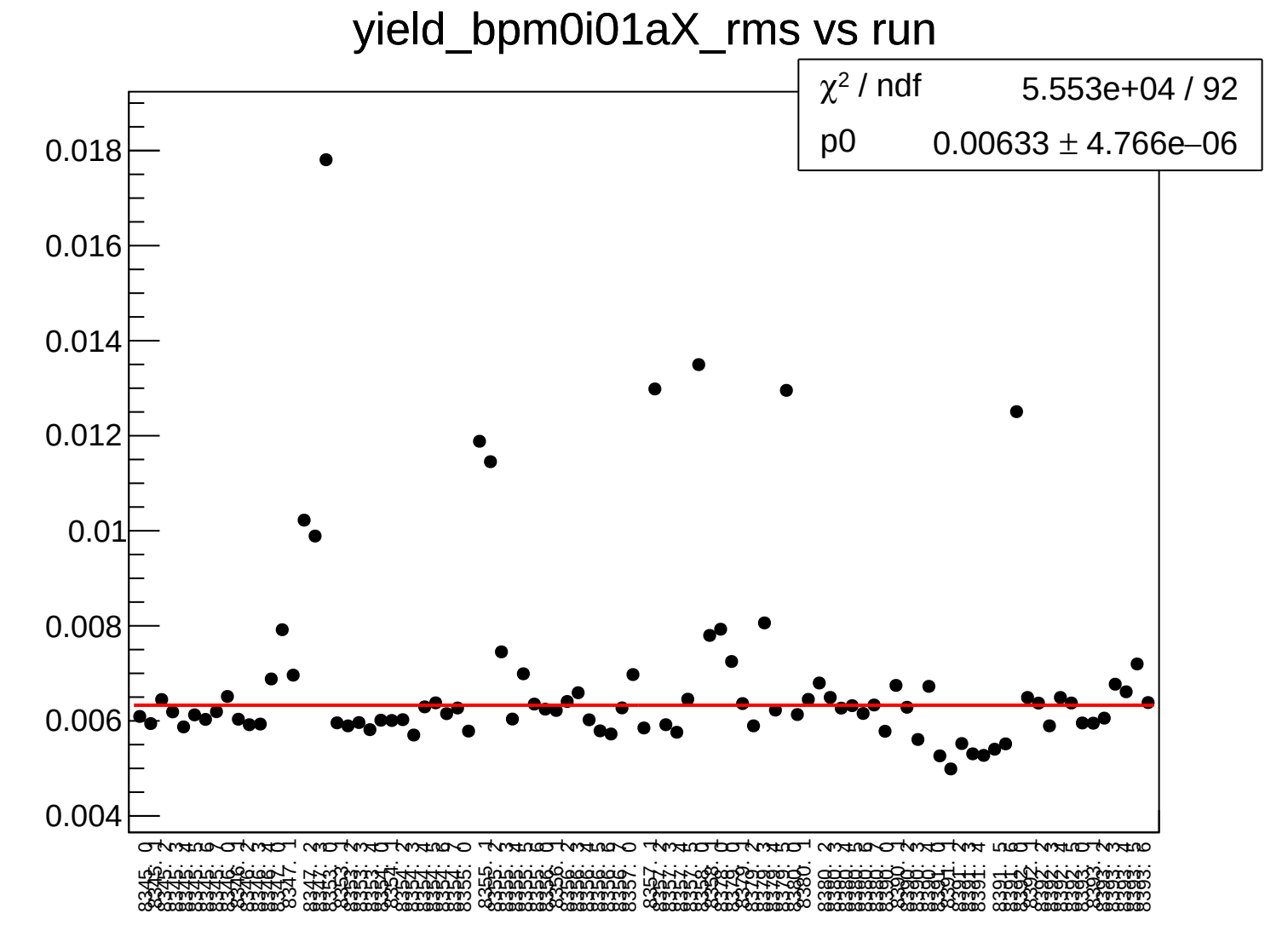

yield_bpm0i01Y_mean vs run
χ² / ndf 8.603e+06 / 92
p0 −1.413 ± 5.926e−06
−1.37
−1.38
−1.39
−1.4
−1.41
−1.42
−1.43
pull
Entries 93
Mean −1502
Std Dev 0
800
600
400
200
0
−200

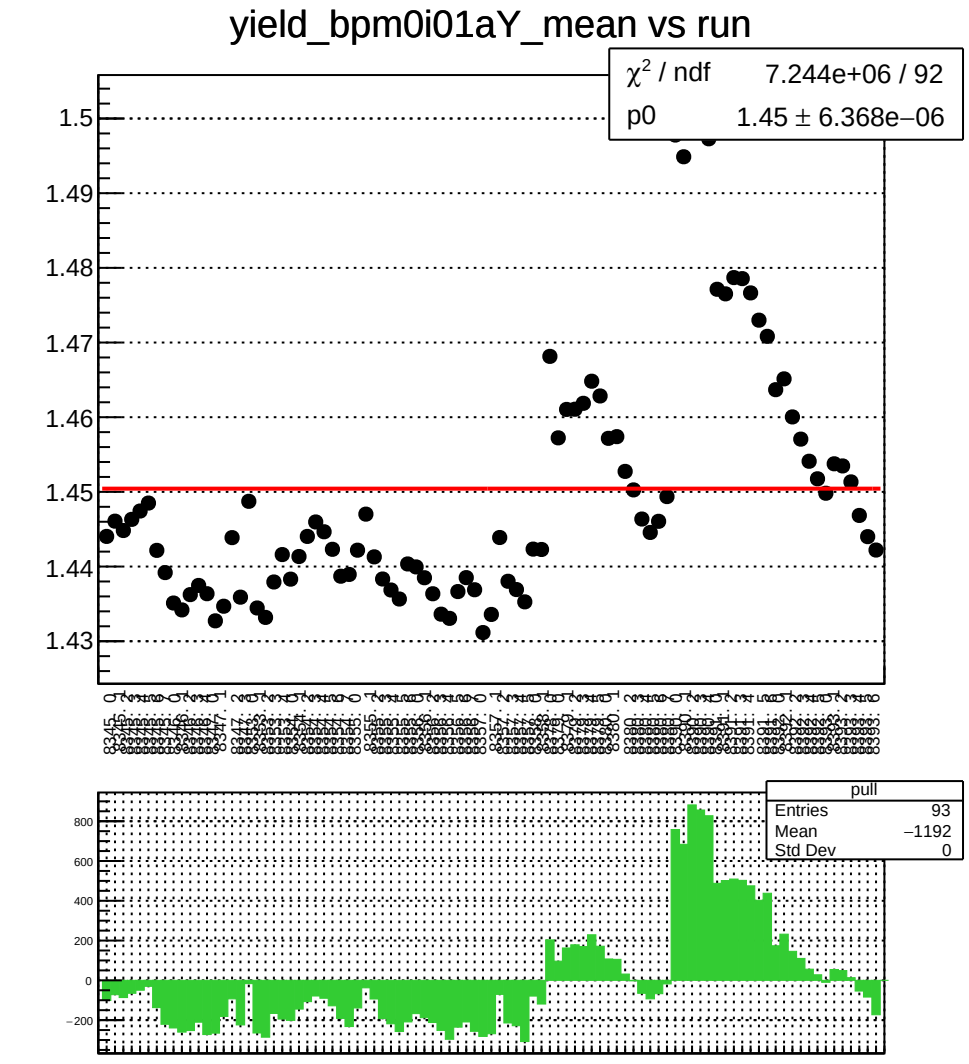

pull1D
Entries 93
Mean 0.3849
Std Dev 5.026
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

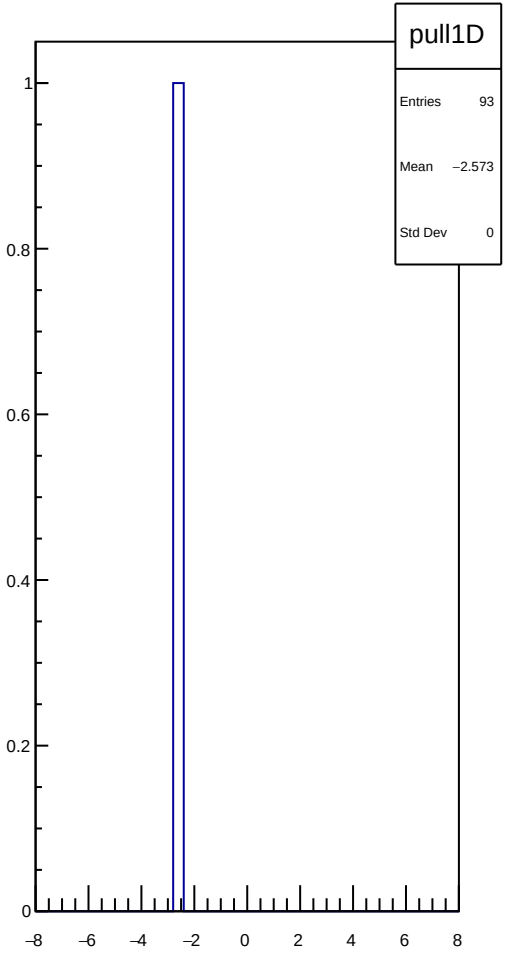

yield_bpm0i01Y_rms vs run
χ² / ndf 6.615e+04 / 92
p0 0.005548 ± 4.19e−06
0.014
0.012
0.01
0.008
0.006
0.004

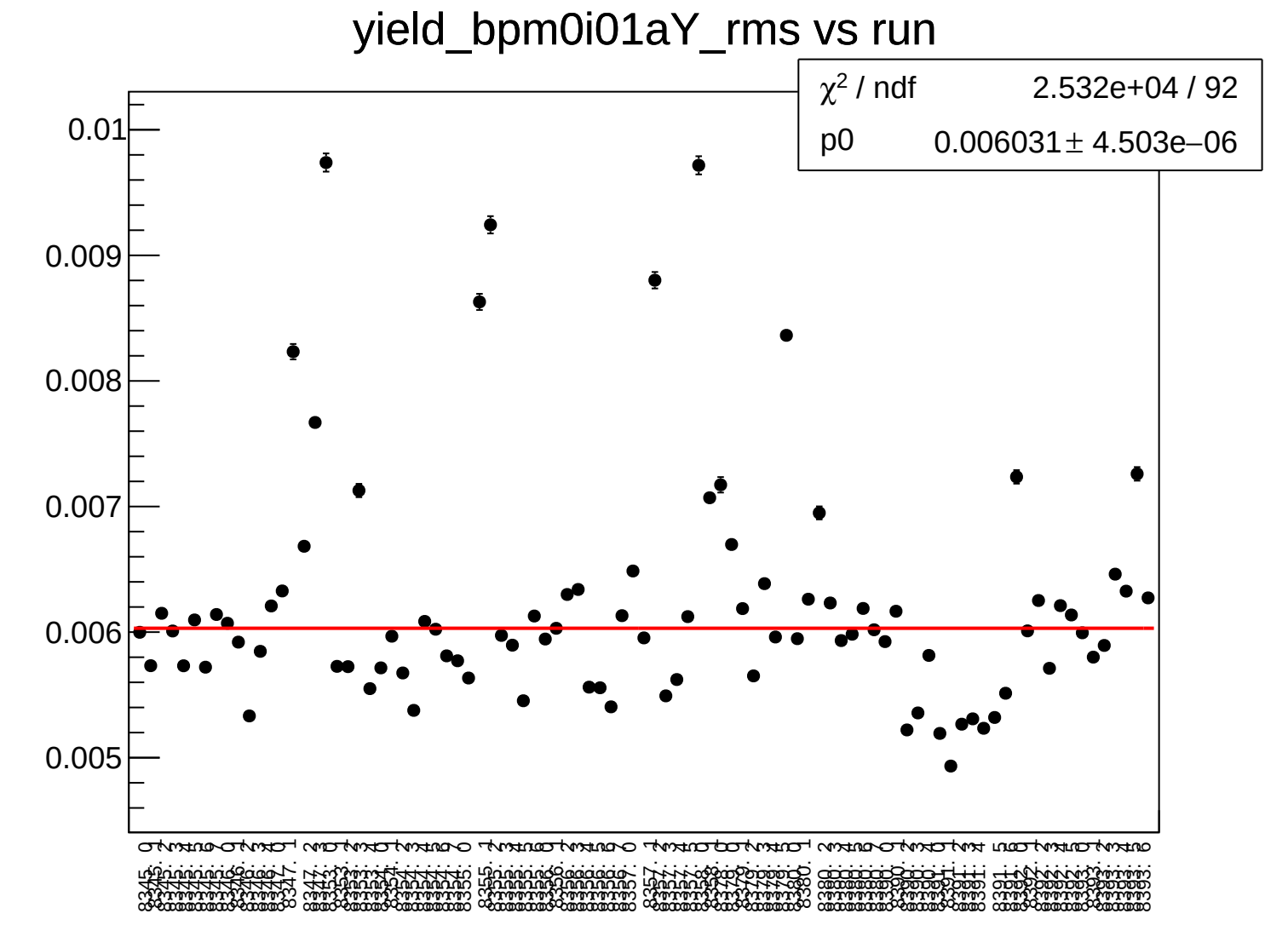

yield_bpm0i01aX_mean vs run
χ² / ndf 1.679e+07 / 92
p0 −1.882 ± 6.741e−06
−1.82
−1.84
−1.86
−1.88
−1.9
pull
Entries 93
Mean −748.9
Std Dev 0
1000
800
600
400
200
0
−200
−400

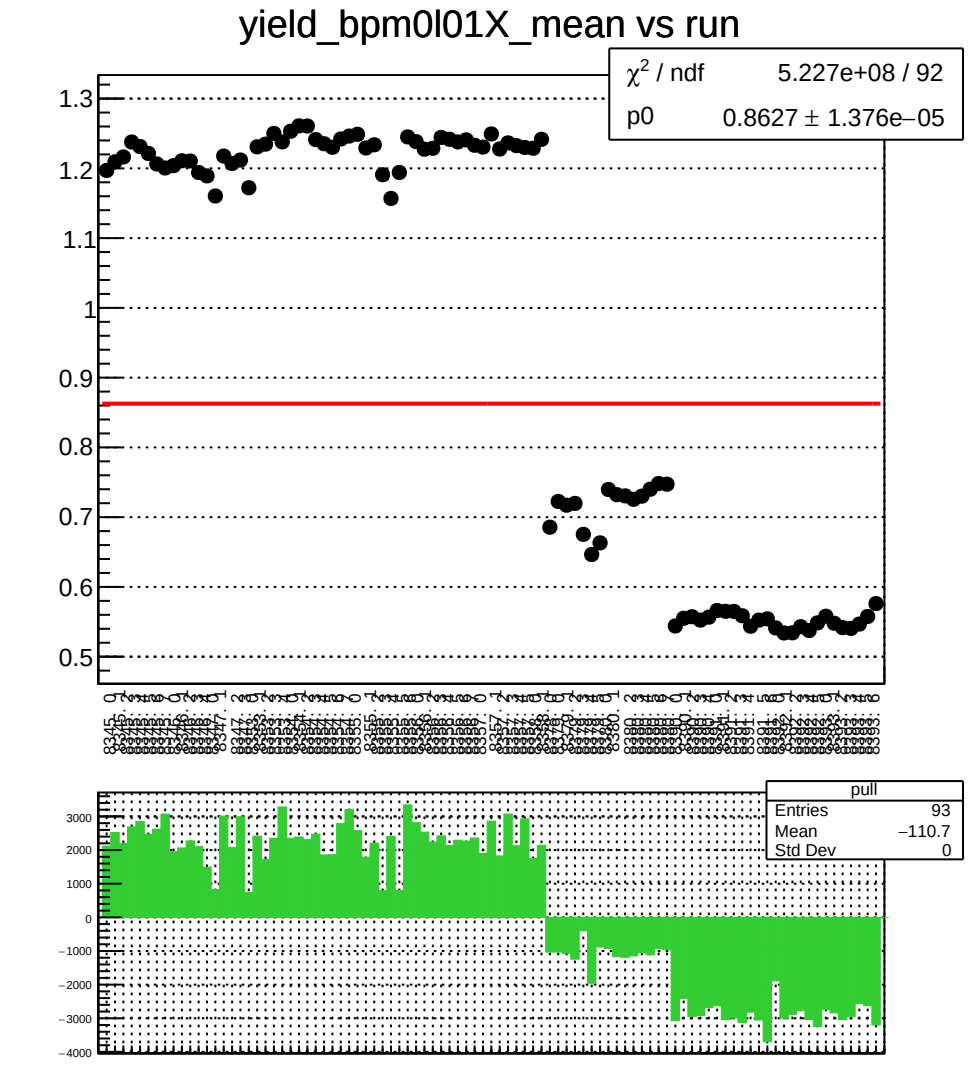

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

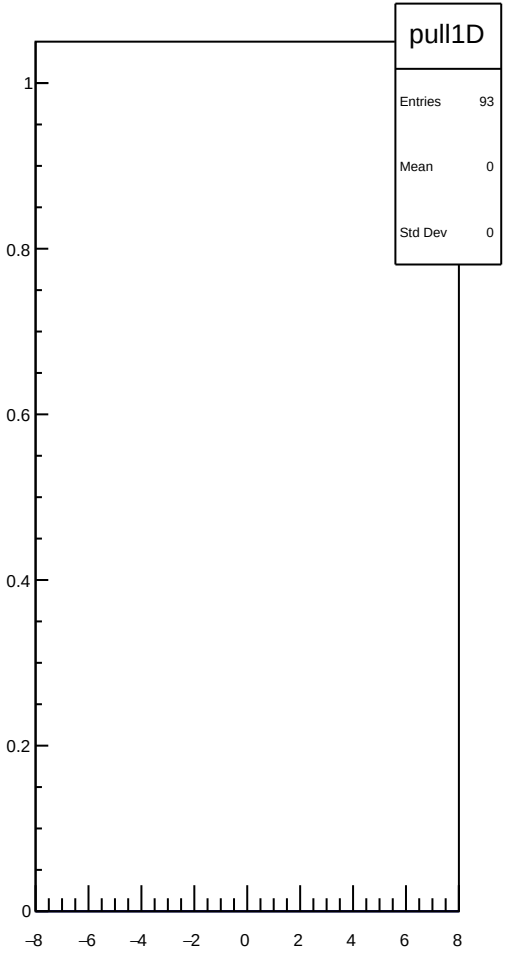

yield_bpm0i01aX_rms vs run
χ² / ndf 5.553e+04 / 92
p0 0.00633 ± 4.766e–06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

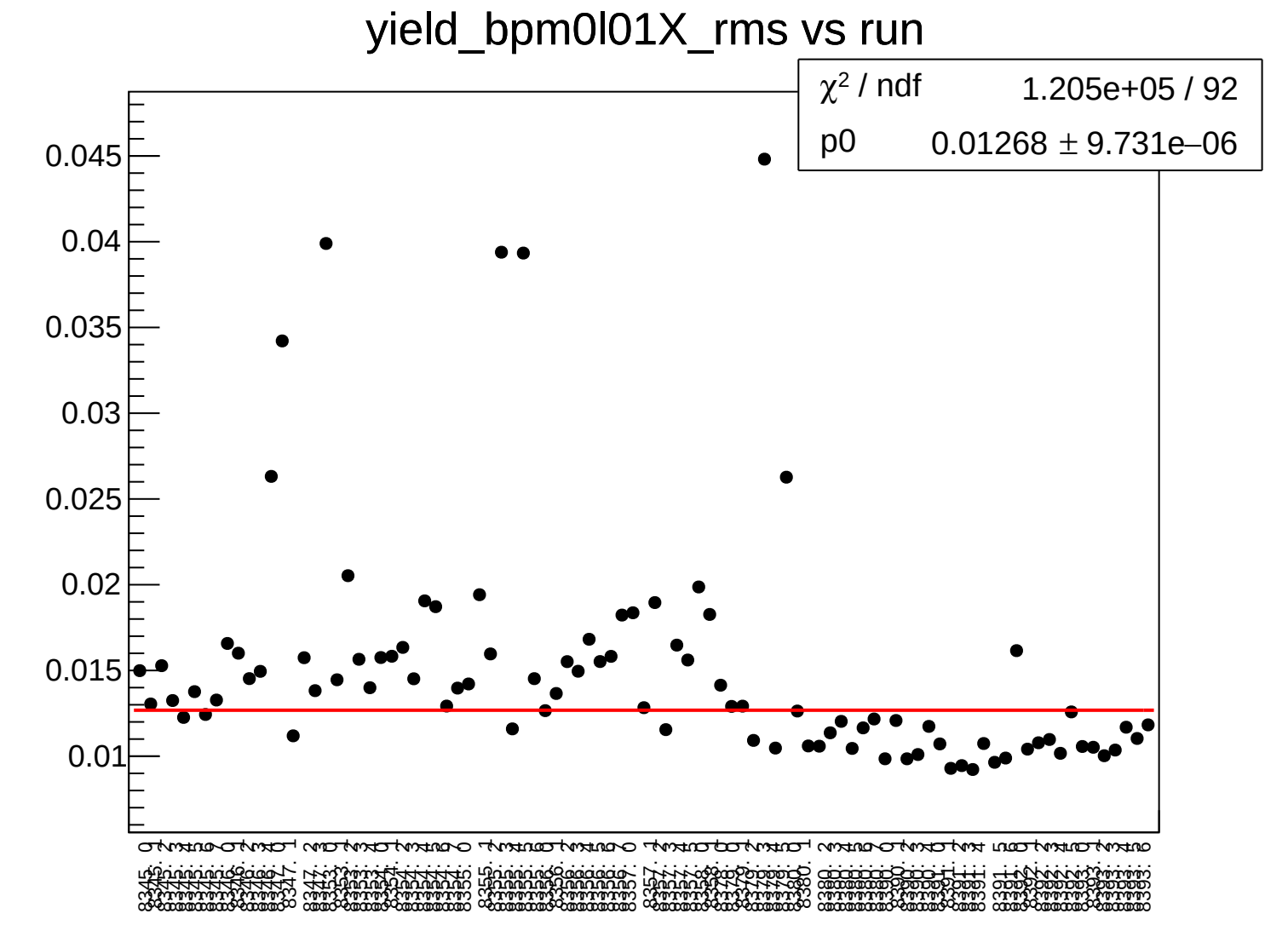

yield_bpm0i01aY_mean vs run
χ² / ndf 7.244e+06 / 92
p0 1.45 ± 6.368e−06
1.5
1.49
1.48
1.47
1.46
1.45
1.44
1.43
pull
Entries 93
Mean −1192
Std Dev 0
800
600
400
200
0
−200

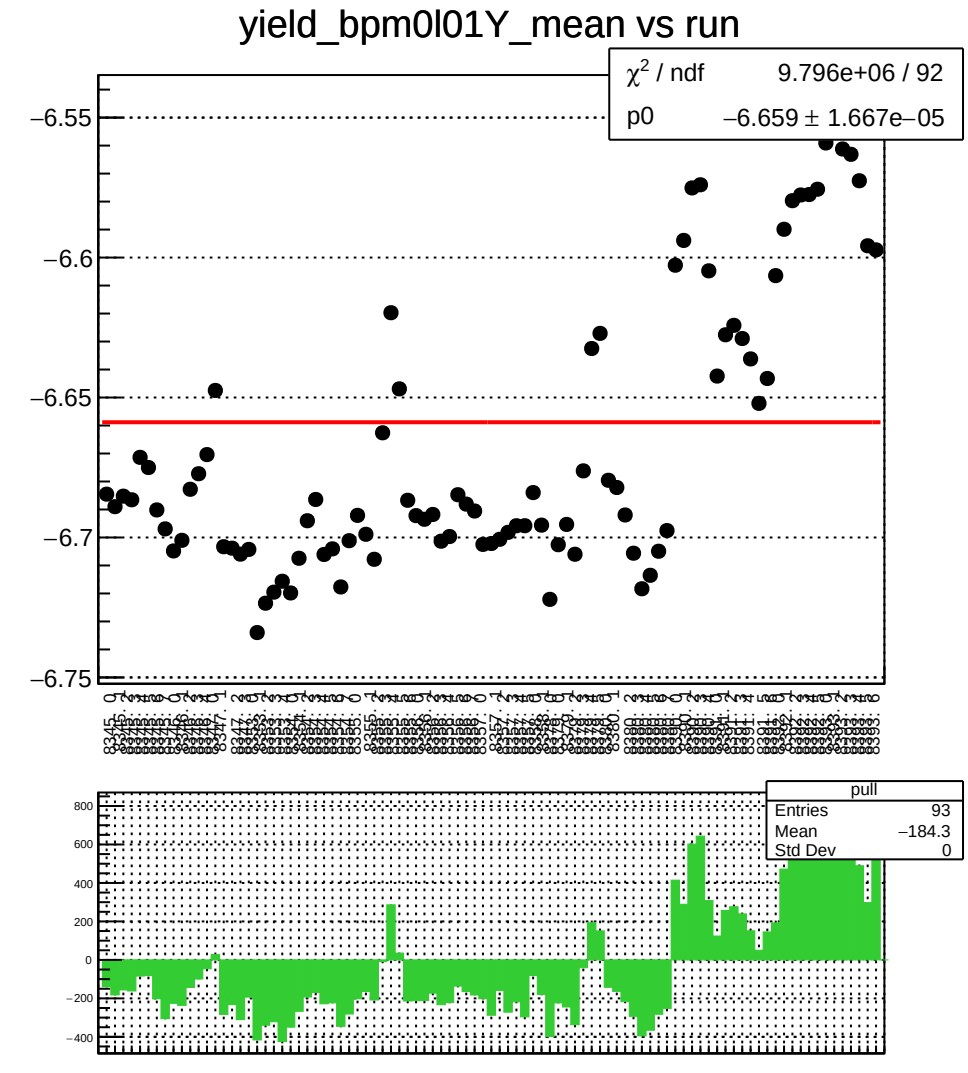

pull1D
Entries 93
Mean −2.573
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

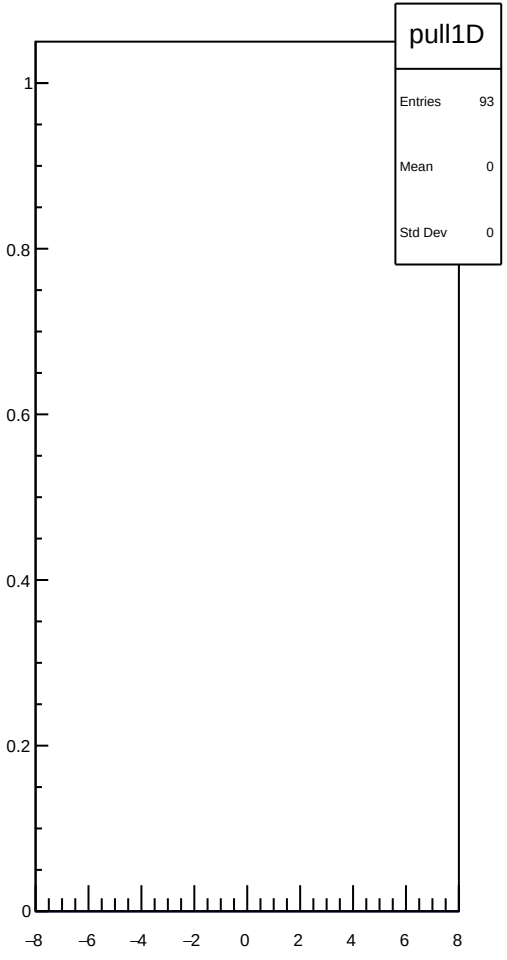

yield_bpm0i01aY_rms vs run
χ² / ndf 2.532e+04 / 92
p0 0.006031 ± 4.503e−06
0.01
0.009
0.008
0.007
0.006
0.005

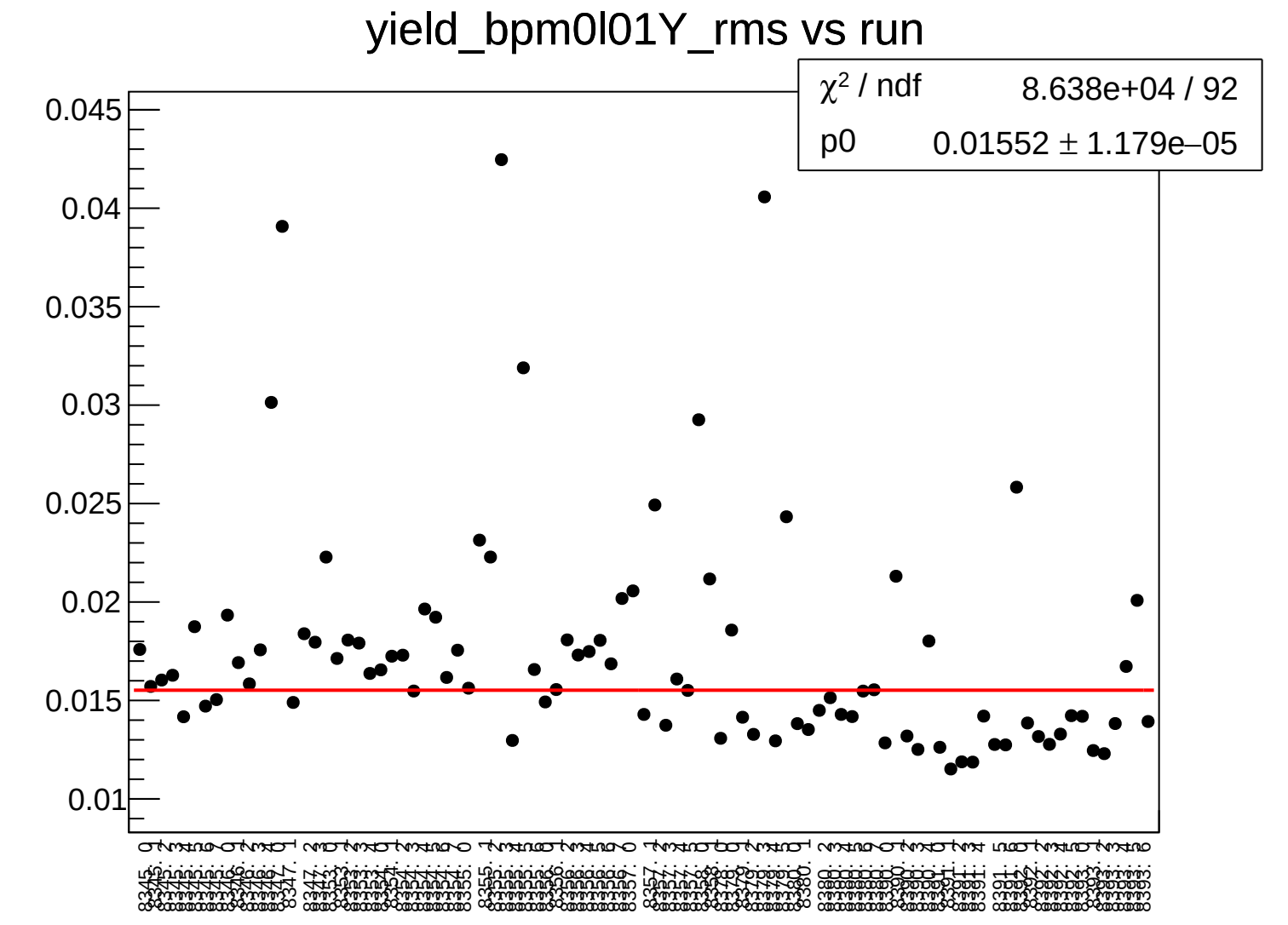

yield_bpm0l01X_mean vs run
χ² / ndf 5.227e+08 / 92
p0 0.8627 ± 1.376e−05
pull
Entries 93
Mean −110.7
Std Dev 0

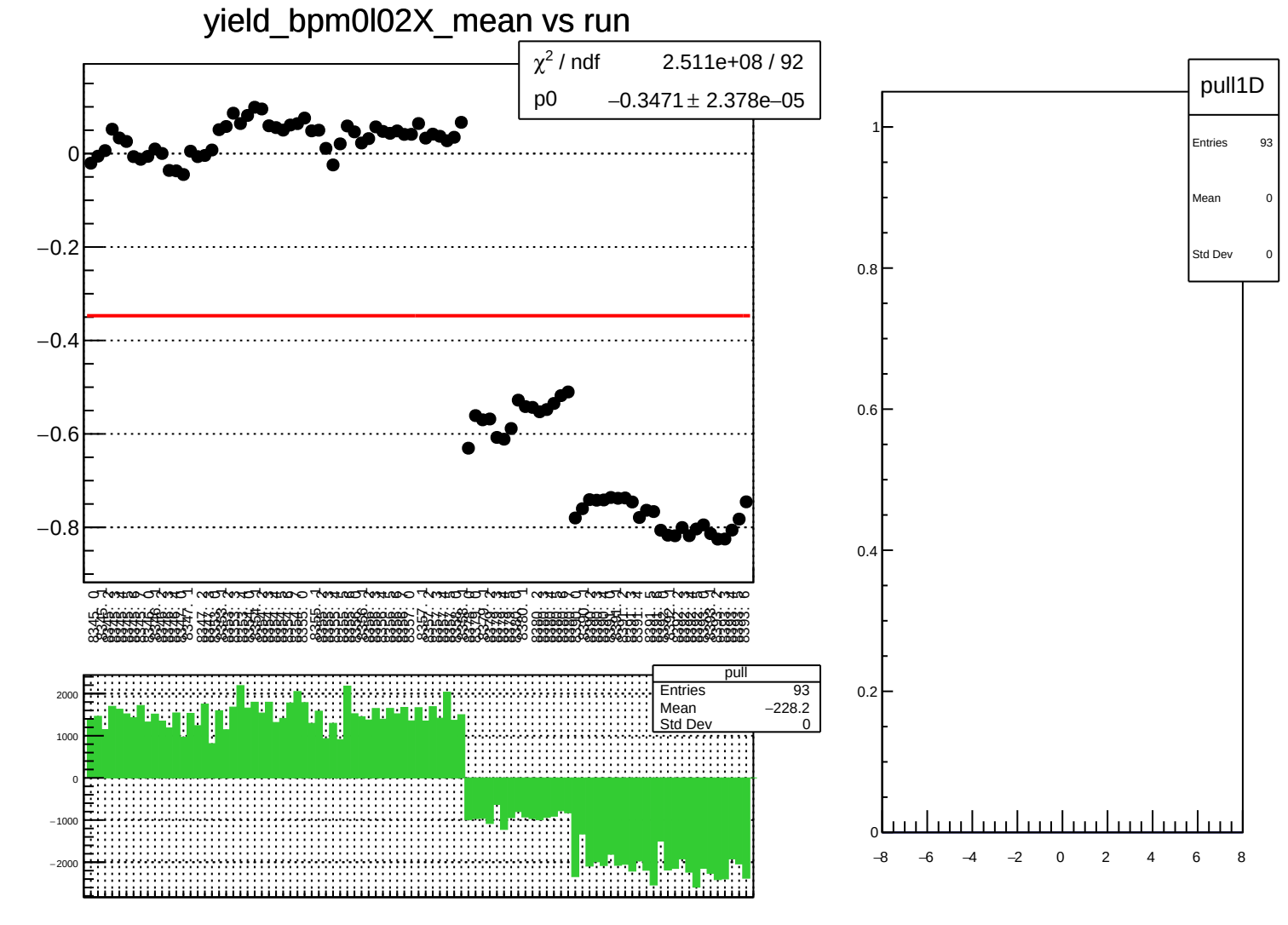

pull1D
Entries 93
Mean 0
Std Dev 0

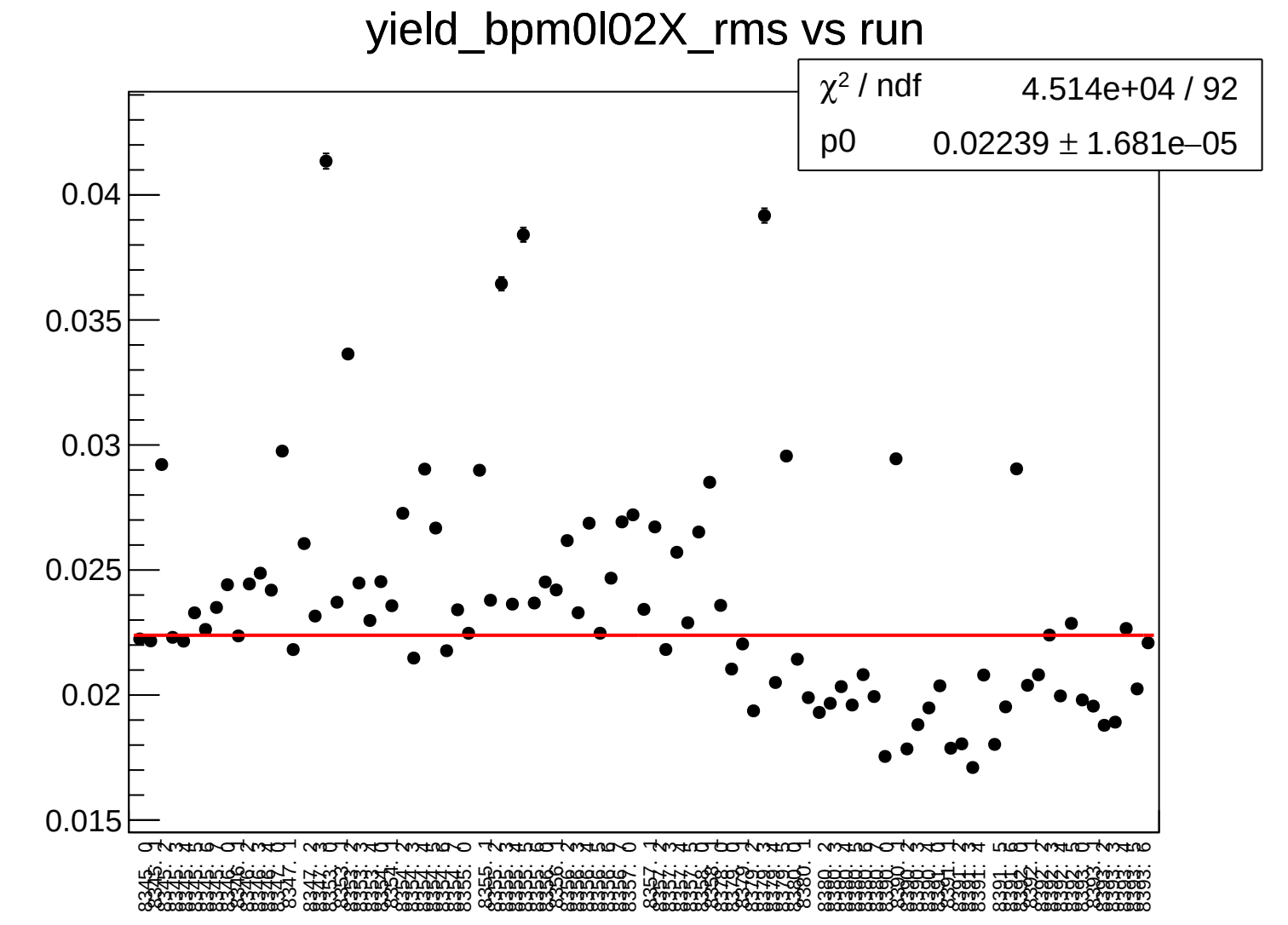

yield_bpm0l01X_rms vs run
χ² / ndf 1.205e+05 / 92
p0 0.01268 ± 9.731e–06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

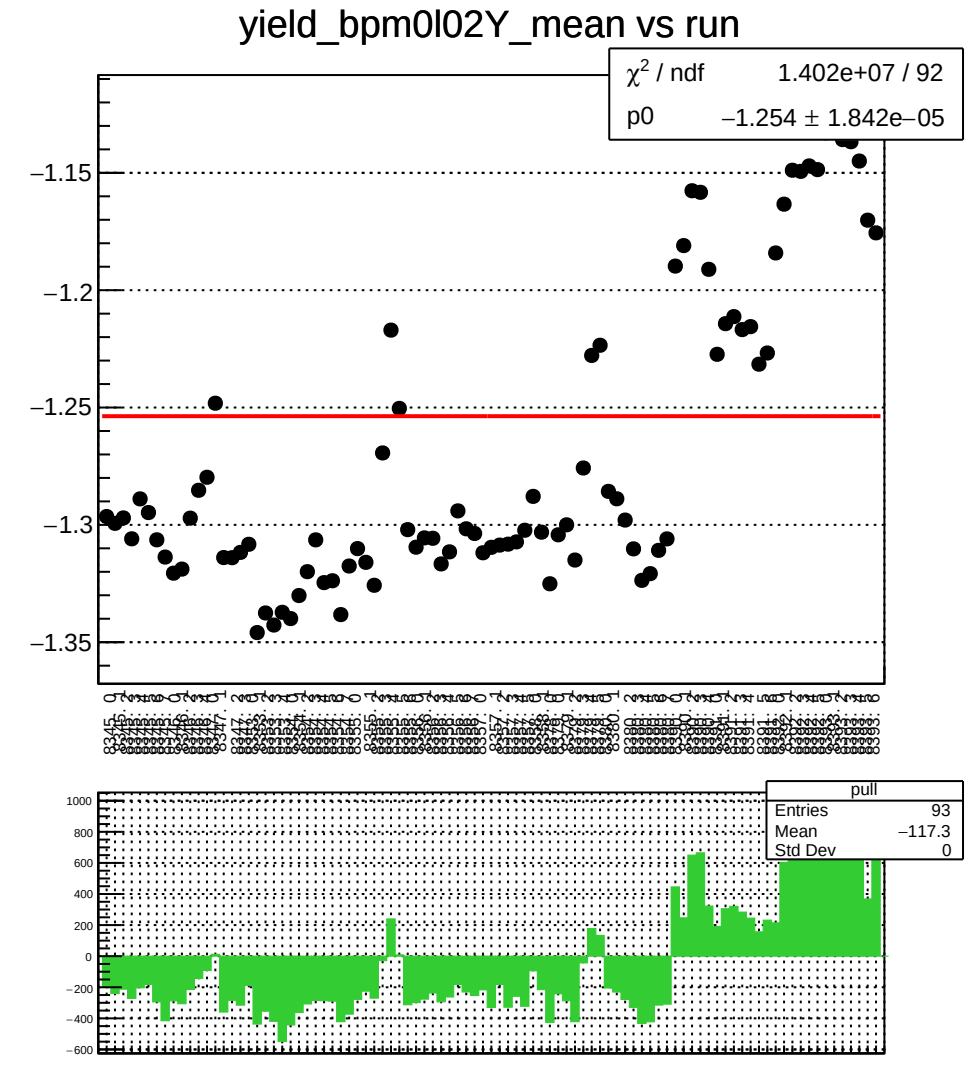

yield_bpm0l01Y_mean vs run
χ² / ndf 9.796e+06 / 92
p0 −6.659 ± 1.667e−05
−6.55
−6.6
−6.65
−6.7
−6.75
pull
Entries 93
Mean −184.3
Std Dev 0
800
600
400
200
0
−200
−400

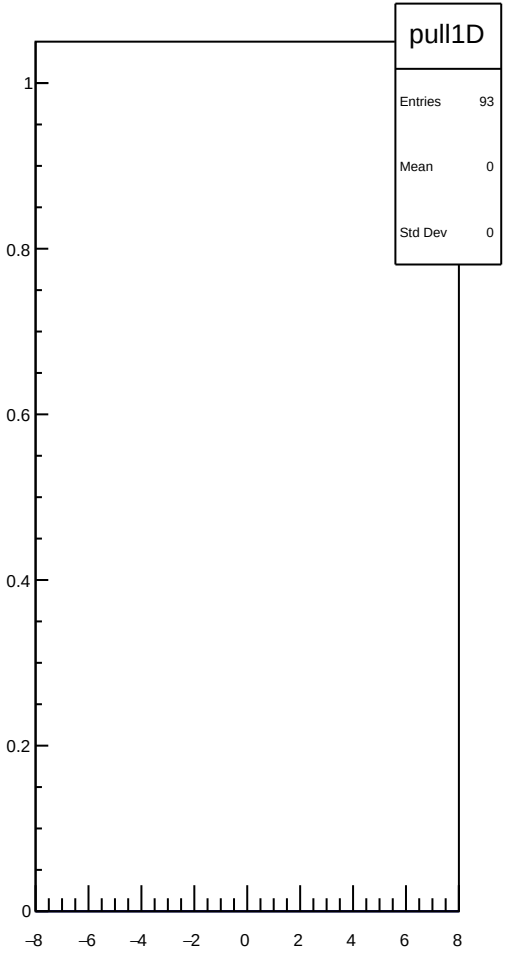

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

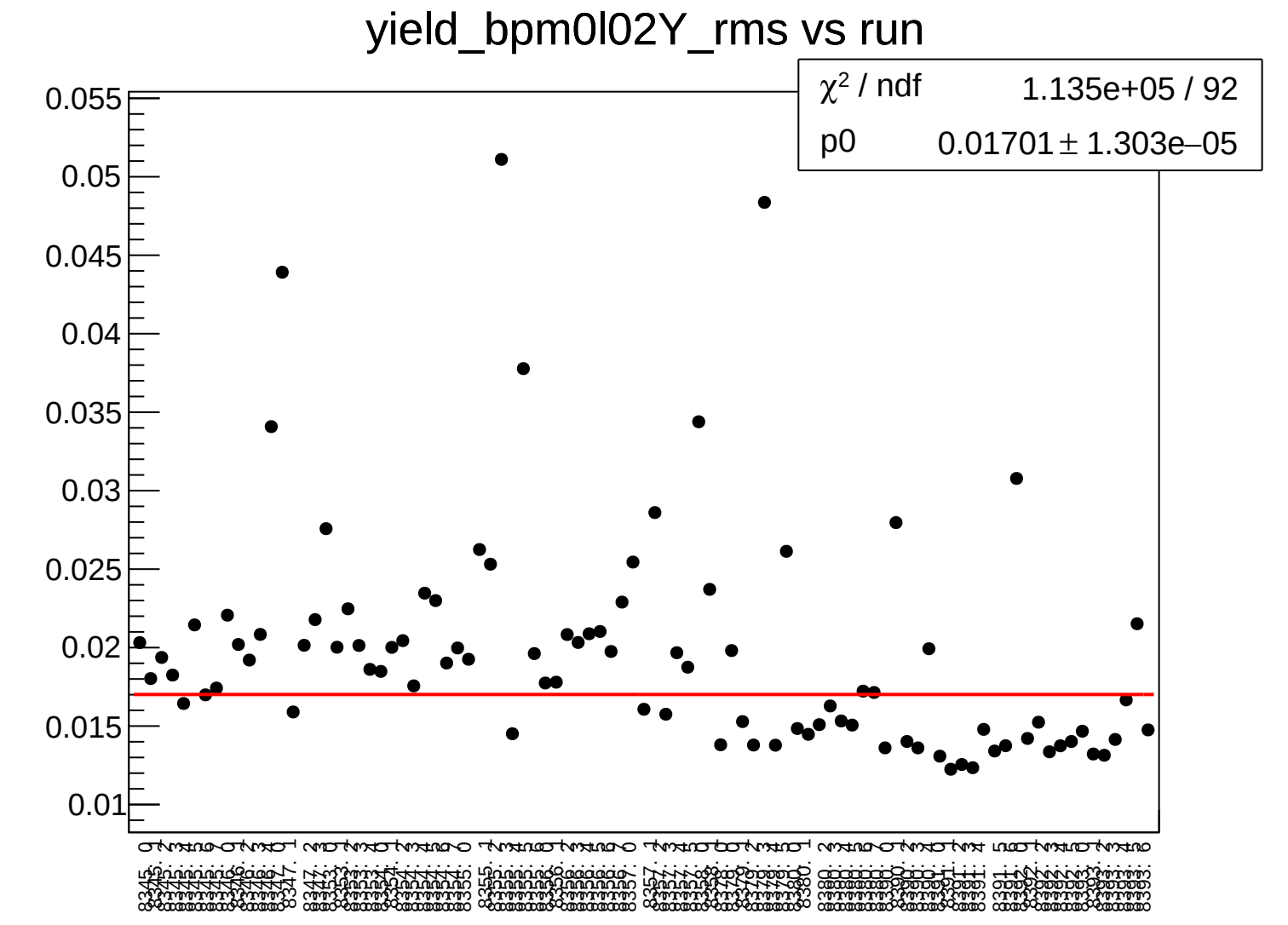

yield_bpm0l01Y_rms vs run
χ² / ndf 8.638e+04 / 92
p0 0.01552 ± 1.179e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

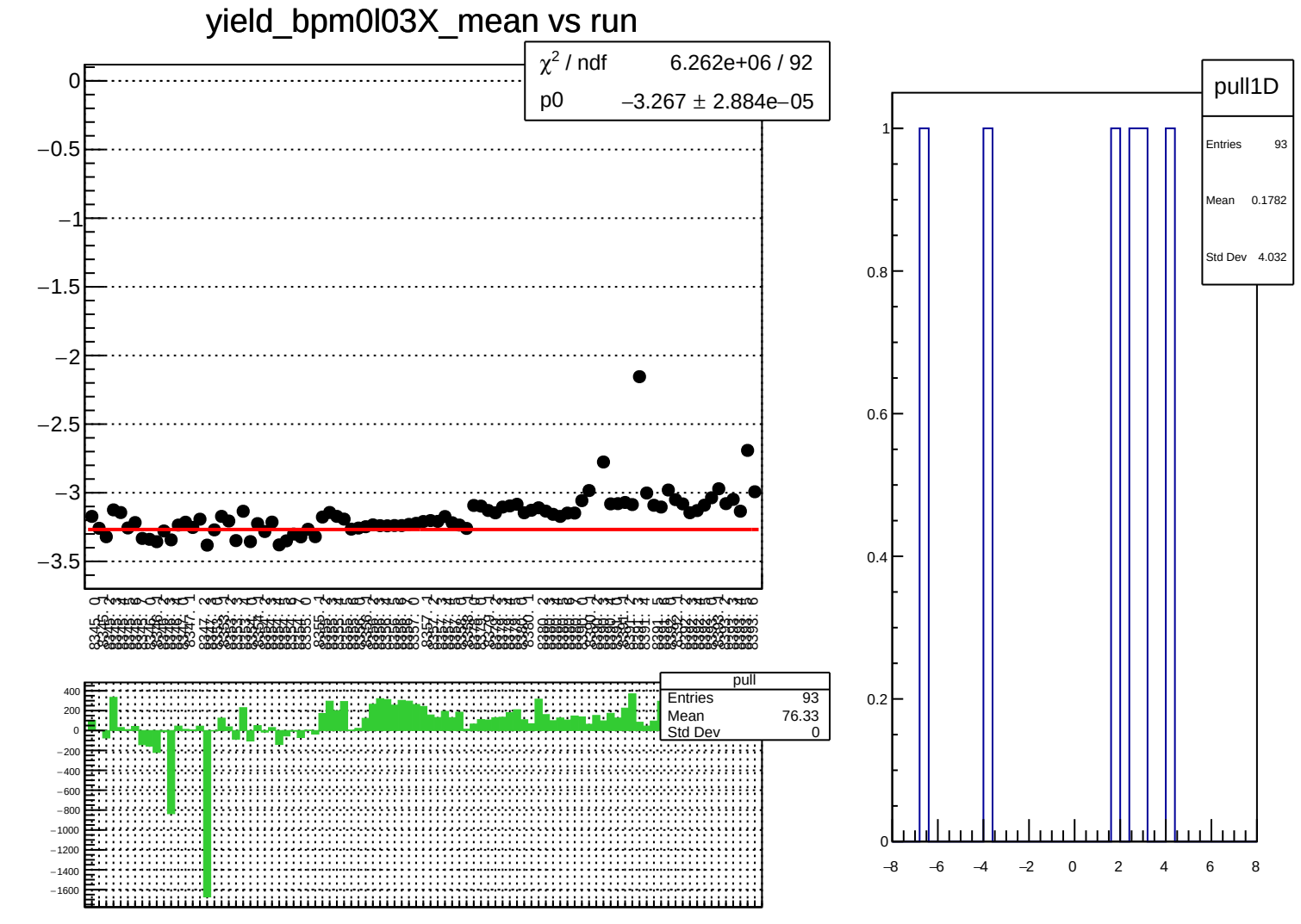

yield_bpm0l02X_mean vs run
χ² / ndf 2.511e+08 / 92
p0 −0.3471 ± 2.378e−05
pull
Entries 93
Mean −228.2
Std Dev 0
pull1D
Entries 93
Mean 0
Std Dev 0

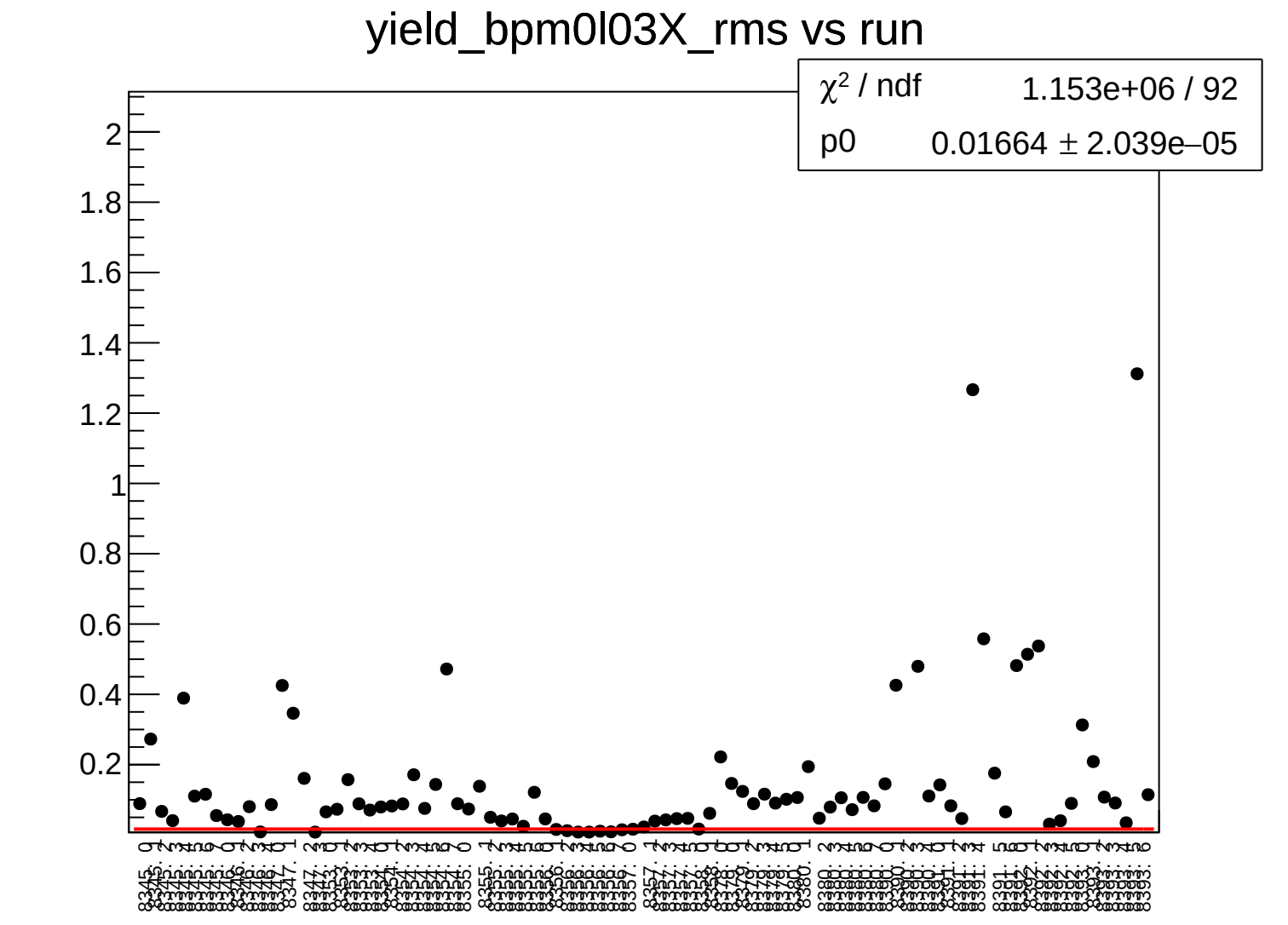

yield_bpm0l02X_rms vs run
χ² / ndf 4.514e+04 / 92
p0 0.02239 ± 1.681e−05
0.04
0.035
0.03
0.025
0.02
0.015

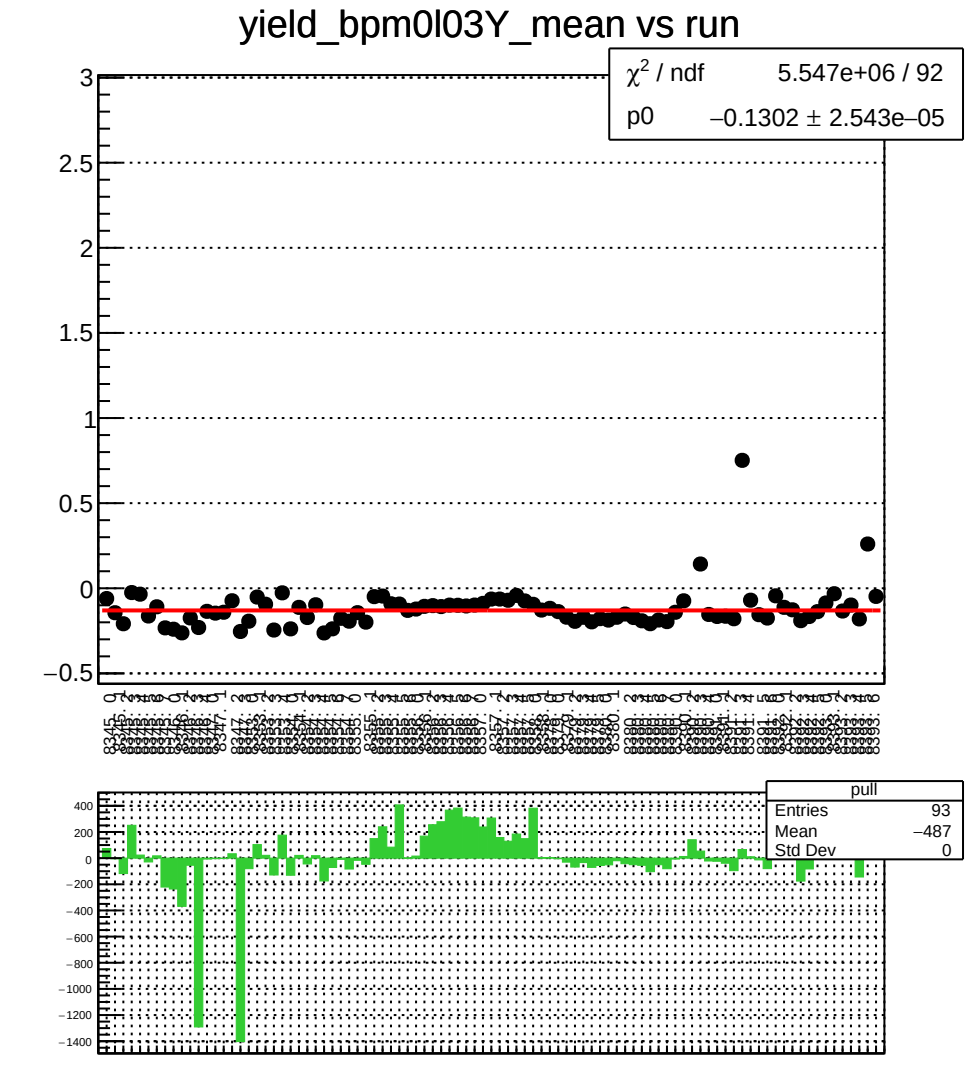

yield_bpm0l02Y_mean vs run
χ² / ndf 1.402e+07 / 92
p0 −1.254 ± 1.842e−05
−1.15
−1.2
−1.25
−1.3
−1.35
pull
Entries 93
Mean −117.3
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600

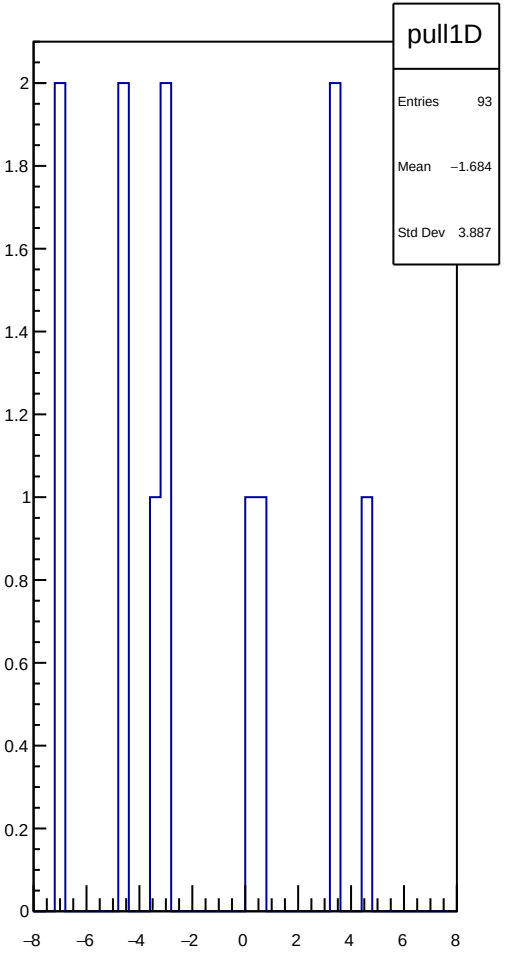

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

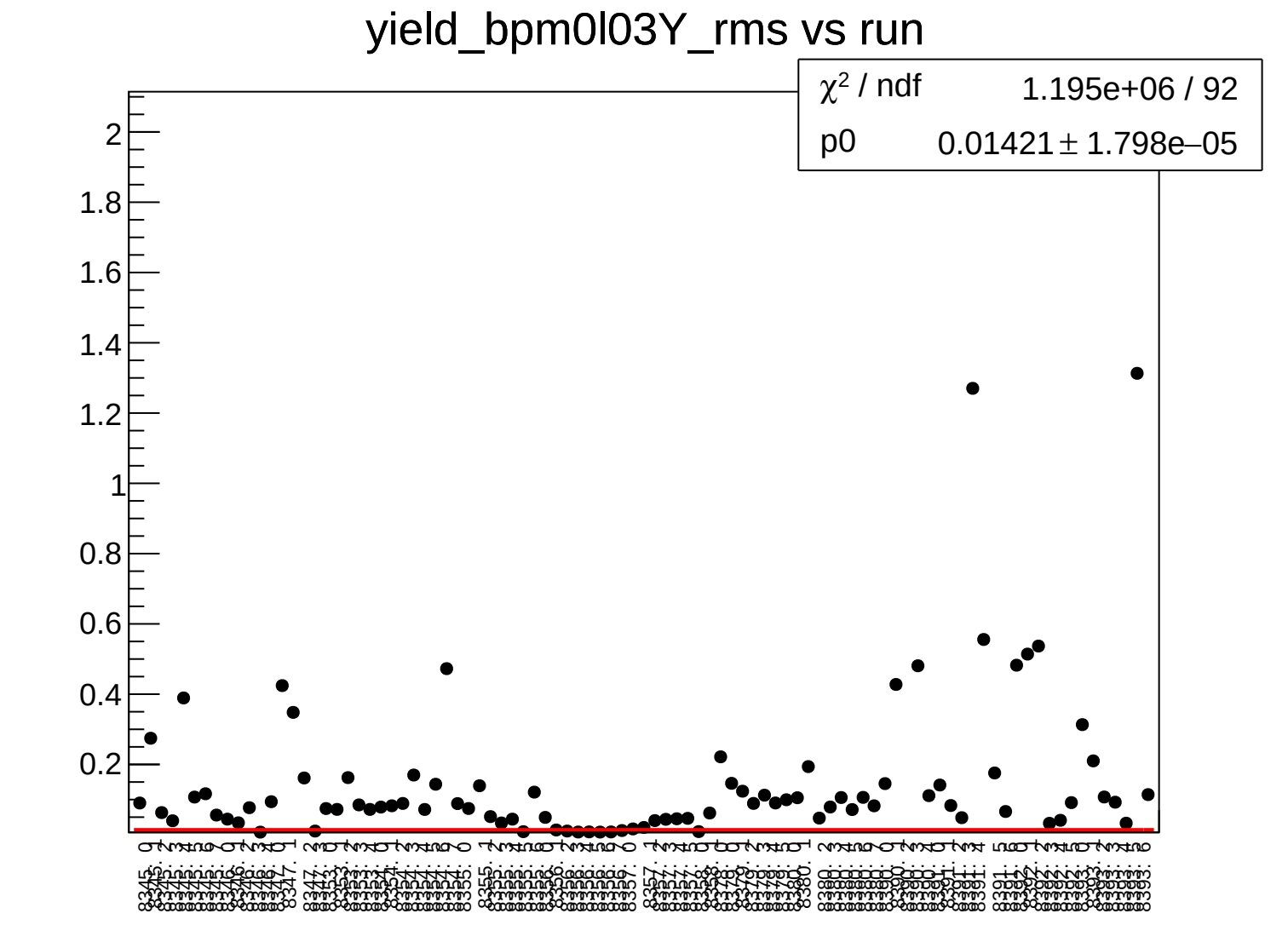

yield_bpm0l02Y_rms vs run
χ² / ndf 1.135e+05 / 92
p0 0.01701 ± 1.303e–05
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

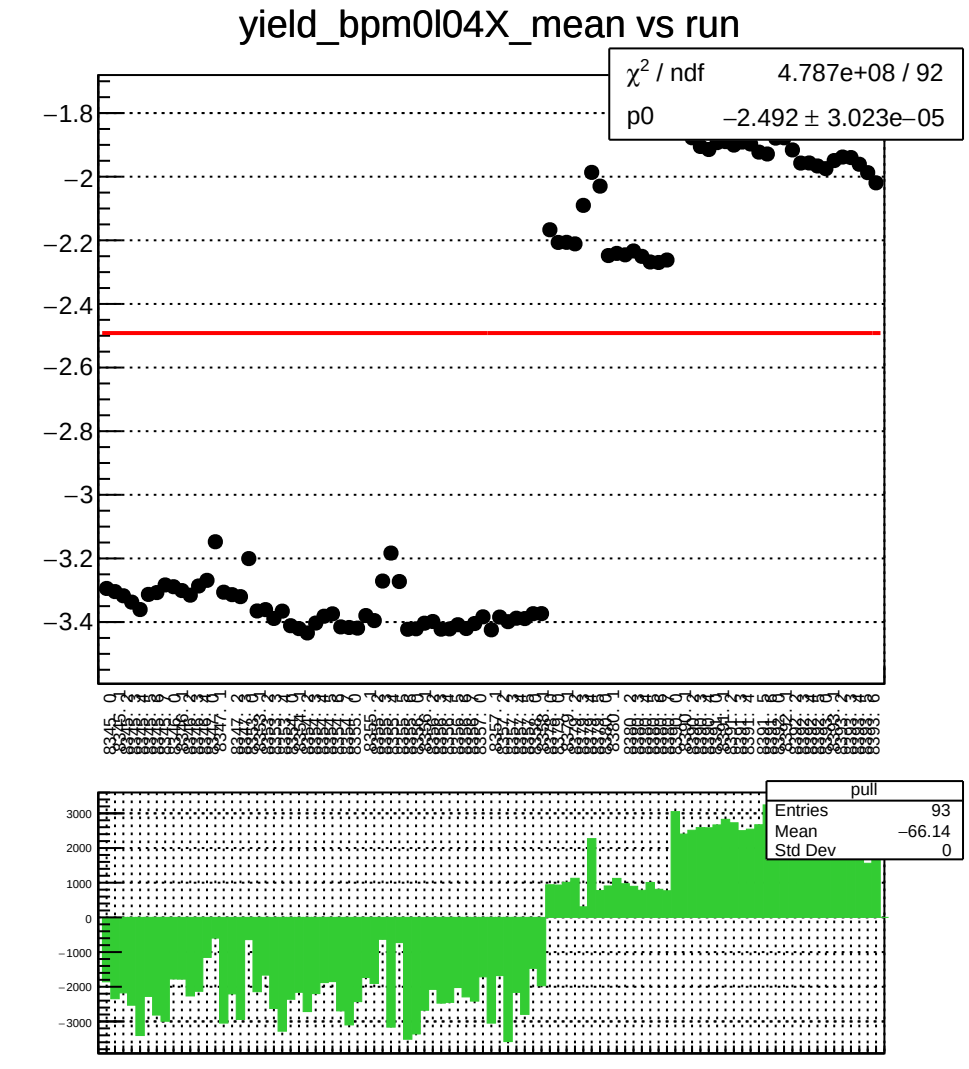

yield_bpm0l03X_mean vs run
χ² / ndf 6.262e+06 / 92
p0 −3.267 ± 2.884e−05
pull
Entries 93
Mean 76.33
Std Dev 0
pull1D
Entries 93
Mean 0.1782
Std Dev 4.032

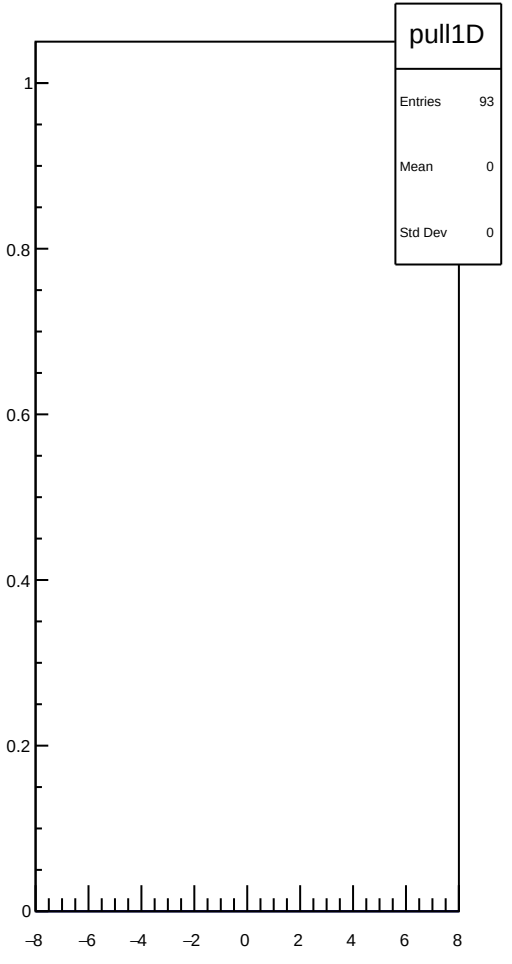

yield_bpm0l03X_rms vs run
χ² / ndf 1.153e+06 / 92
p0 0.01664 ± 2.039e–05
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

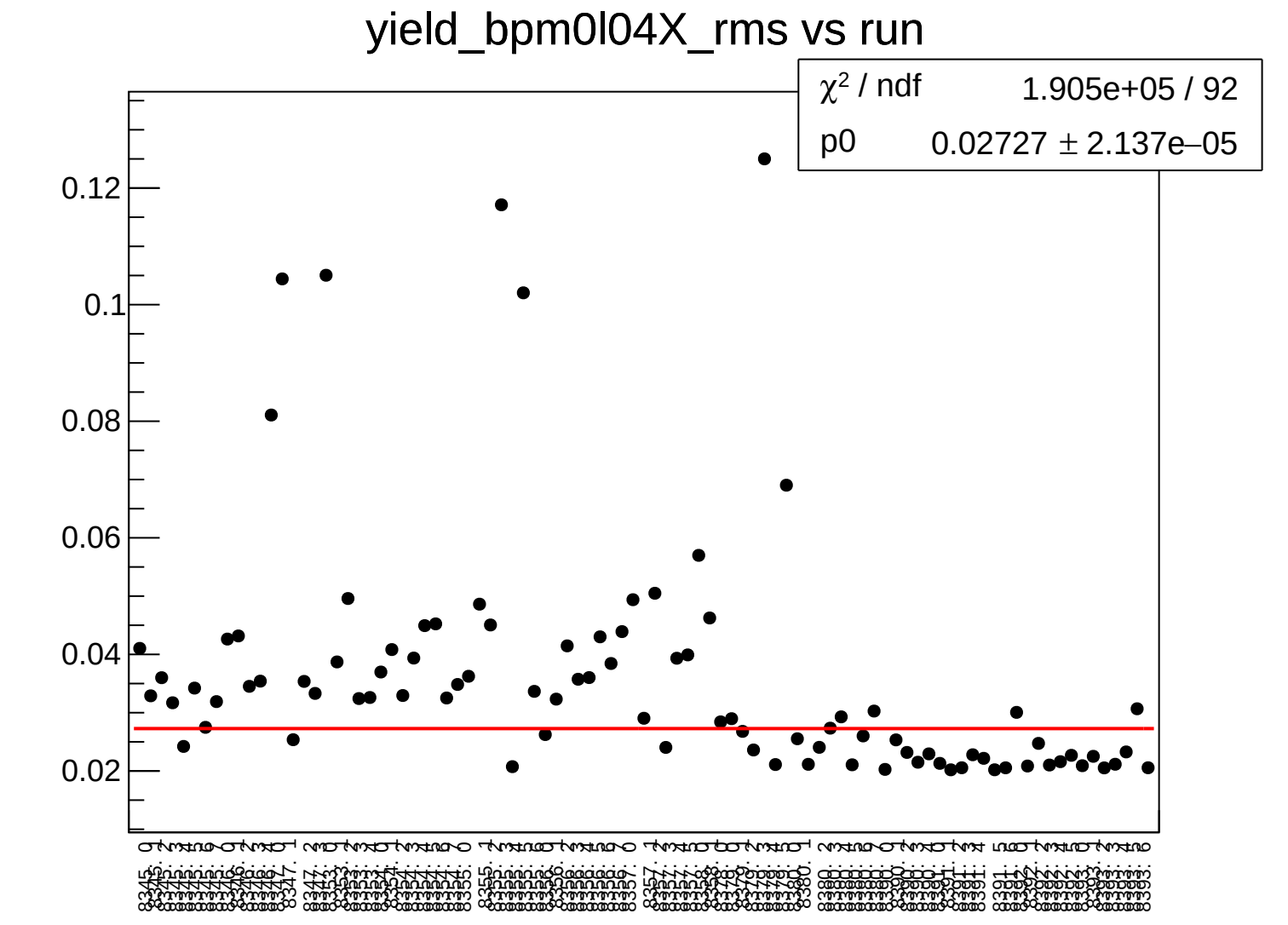

yield_bpm0l03Y_mean vs run
χ² / ndf 5.547e+06 / 92
p0 −0.1302 ± 2.543e−05
pull
Entries 93
Mean −487
Std Dev 0

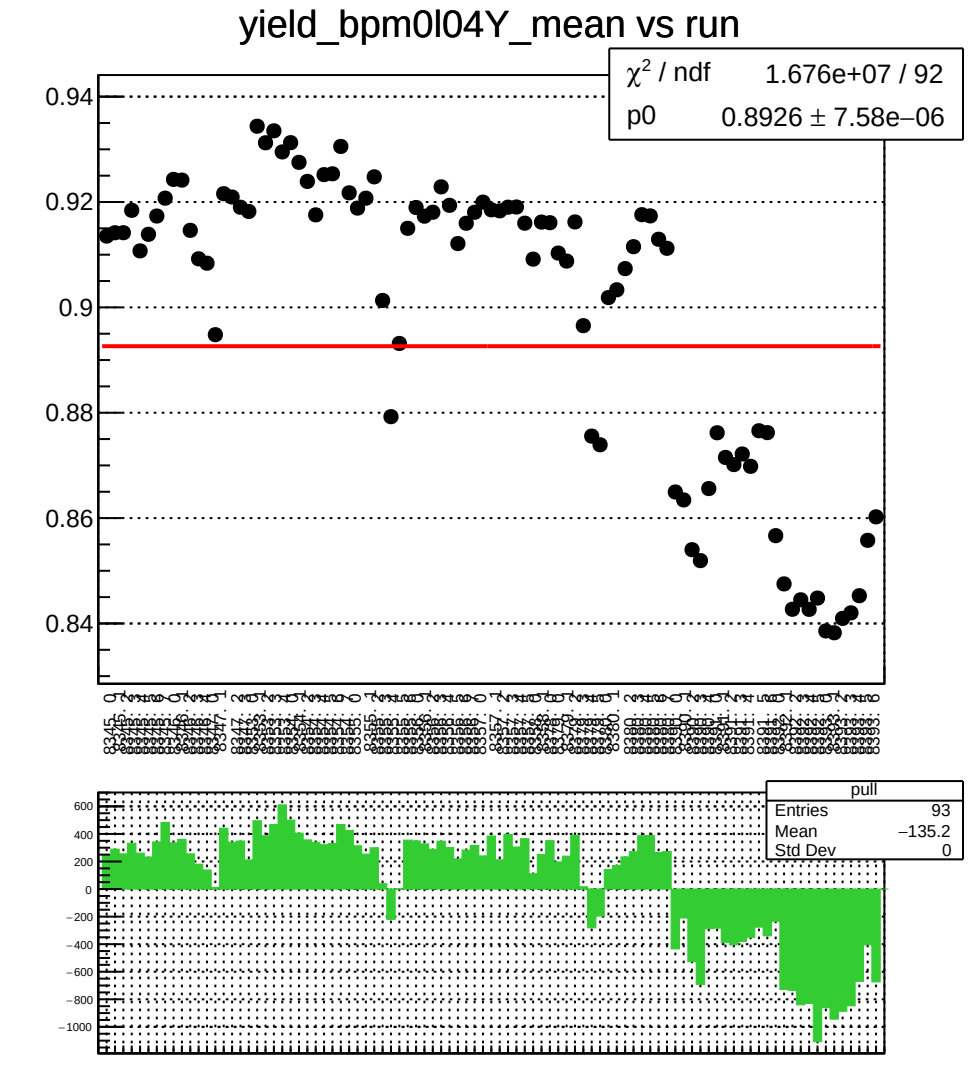

pull1D
Entries 93
Mean −1.684
Std Dev 3.887

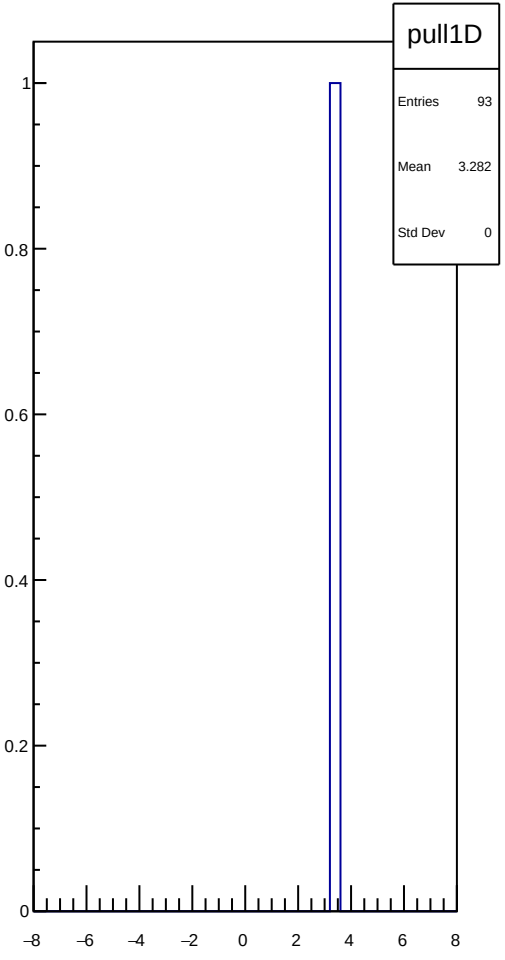

yield_bpm0l03Y_rms vs run
χ² / ndf 1.195e+06 / 92
p0 0.01421 ± 1.798e–05
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

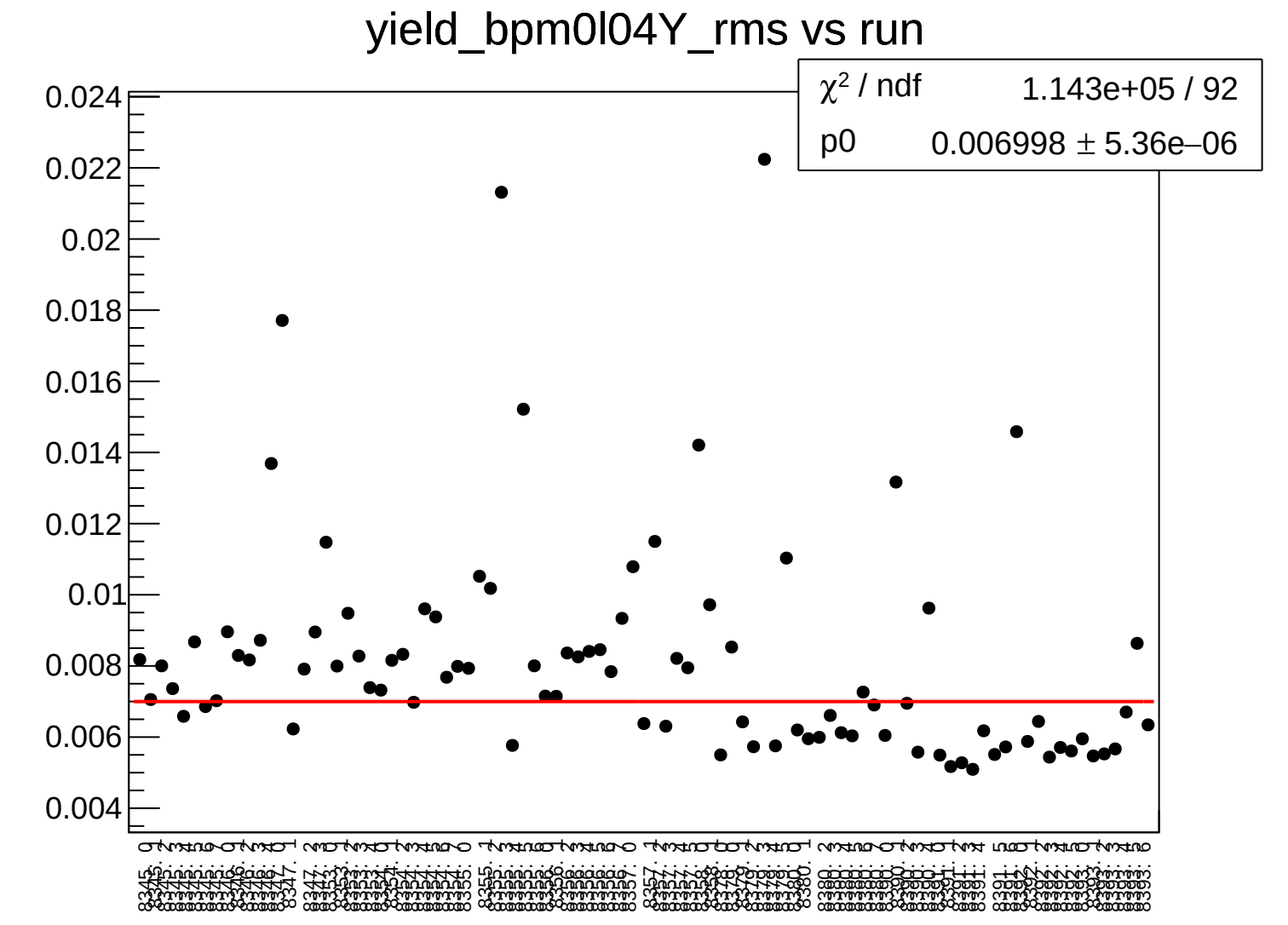

yield_bpm0l04X_mean vs run
χ² / ndf 4.787e+08 / 92
p0 −2.492 ± 3.023e−05
−1.8
−2
−2.2
−2.4
−2.6
−2.8
−3
−3.2
−3.4
pull
Entries 93
Mean −66.14
Std Dev 0
3000
2000
1000
0
−1000
−2000
−3000

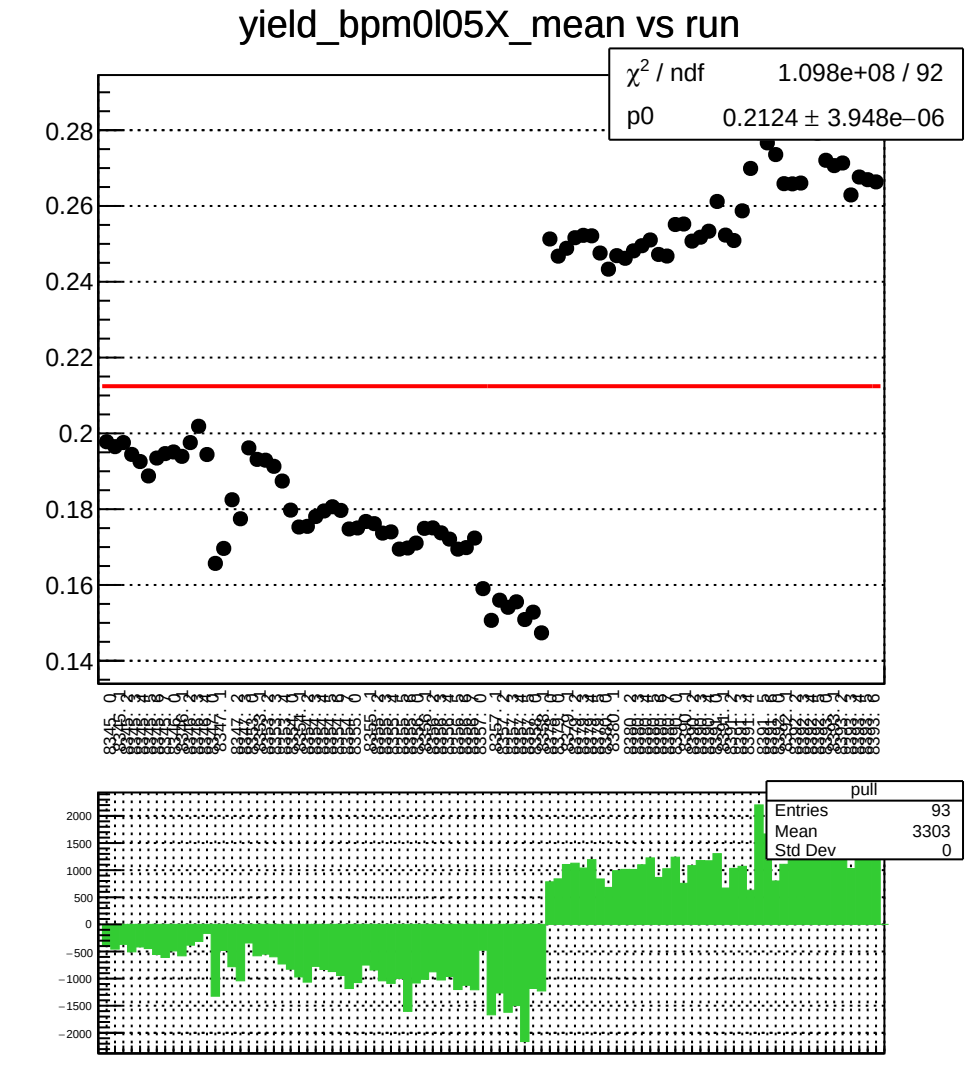

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

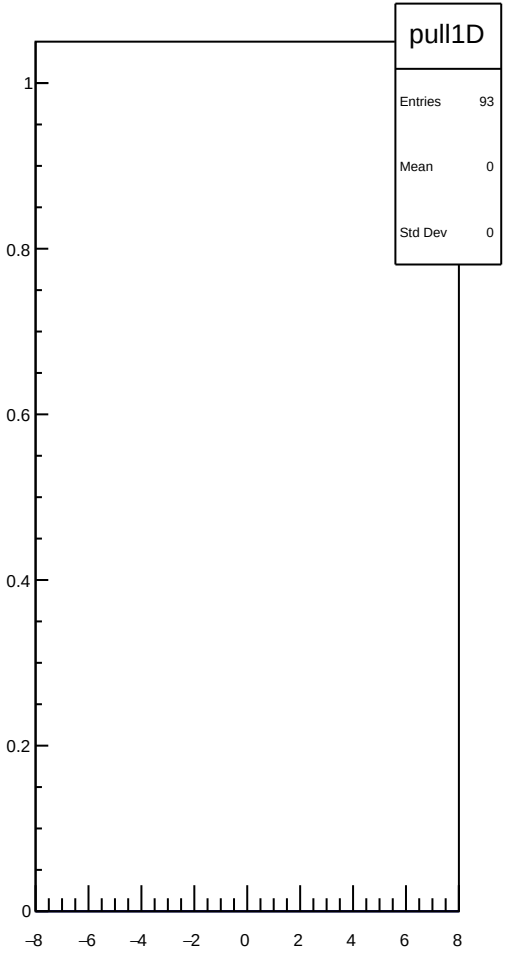

yield_bpm0l04X_rms vs run
χ² / ndf 1.905e+05 / 92
p0 0.02727 ± 2.137e–05
0.12
0.1
0.08
0.06
0.04
0.02

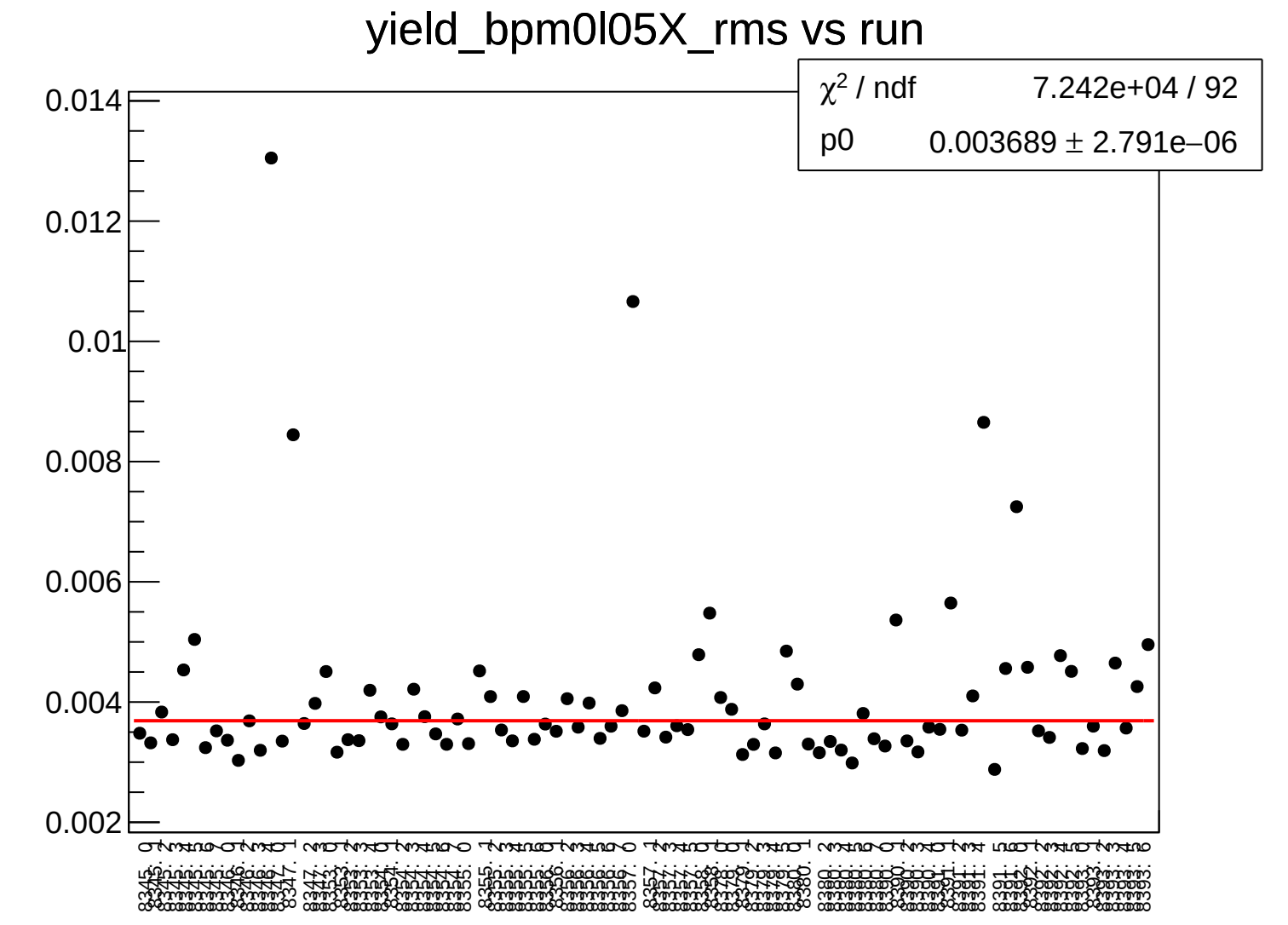

yield_bpm0l04Y_mean vs run
χ² / ndf 1.676e+07 / 92
p0 0.8926 ± 7.58e−06
0.94
0.92
0.9
0.88
0.86
0.84
pull
Entries 93
Mean −135.2
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000

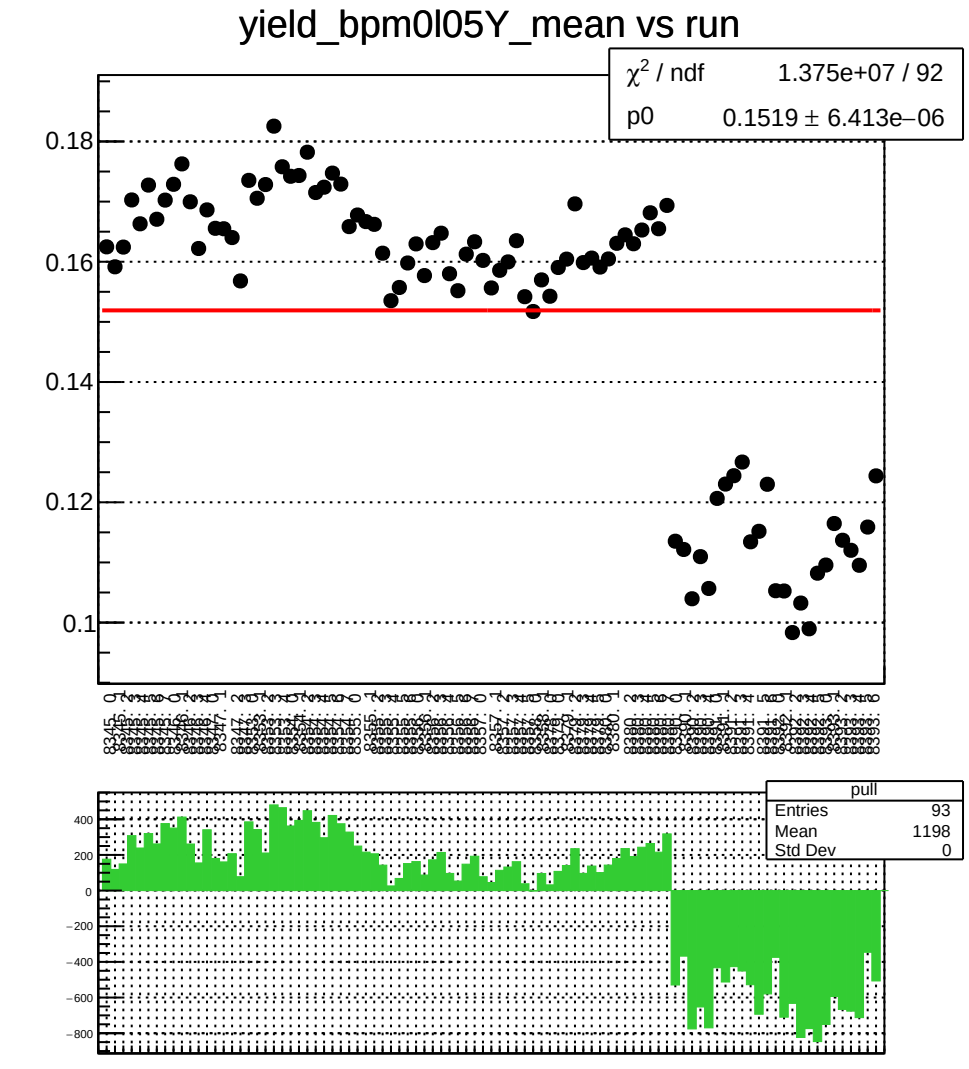

pull1D
Entries 93
Mean 3.282
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

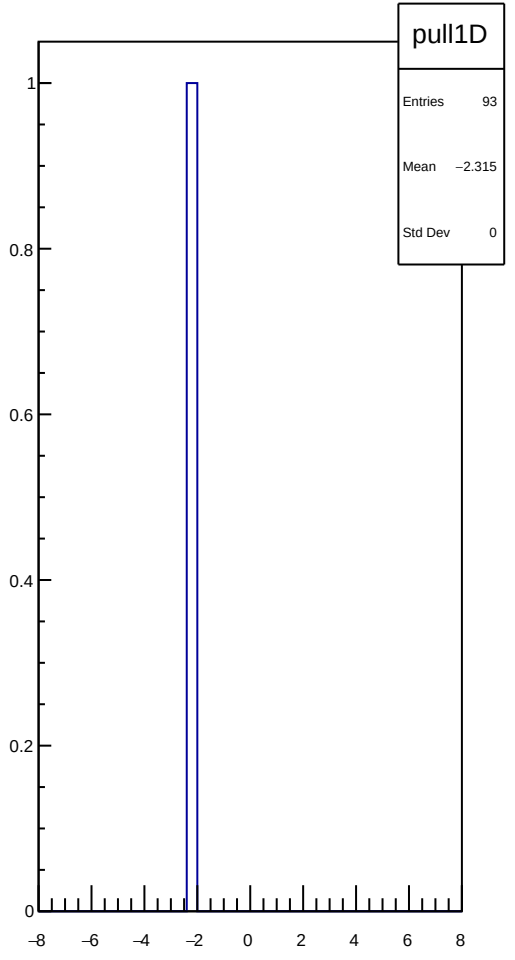

yield_bpm0l04Y_rms vs run
χ² / ndf 1.143e+05 / 92
p0 0.006998 ± 5.36e–06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

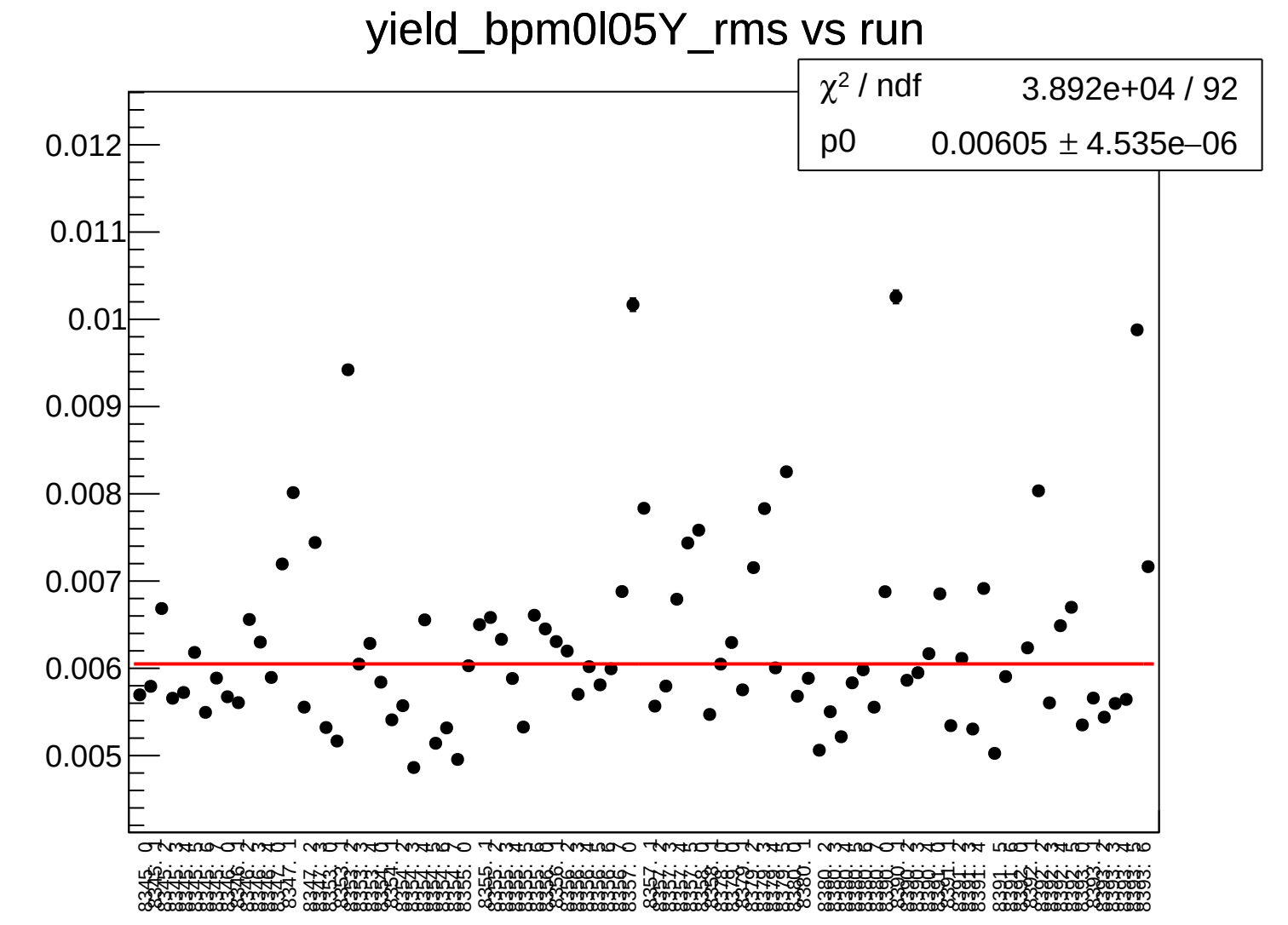

yield_bpm0l05X_mean vs run
χ² / ndf 1.098e+08 / 92
p0 0.2124 ± 3.948e−06
0.28
0.26
0.24
0.22
0.2
0.18
0.16
0.14
pull
Entries 93
Mean 3303
Std Dev 0
2000
1500
1000
500
0
−500
−1000
−1500
−2000

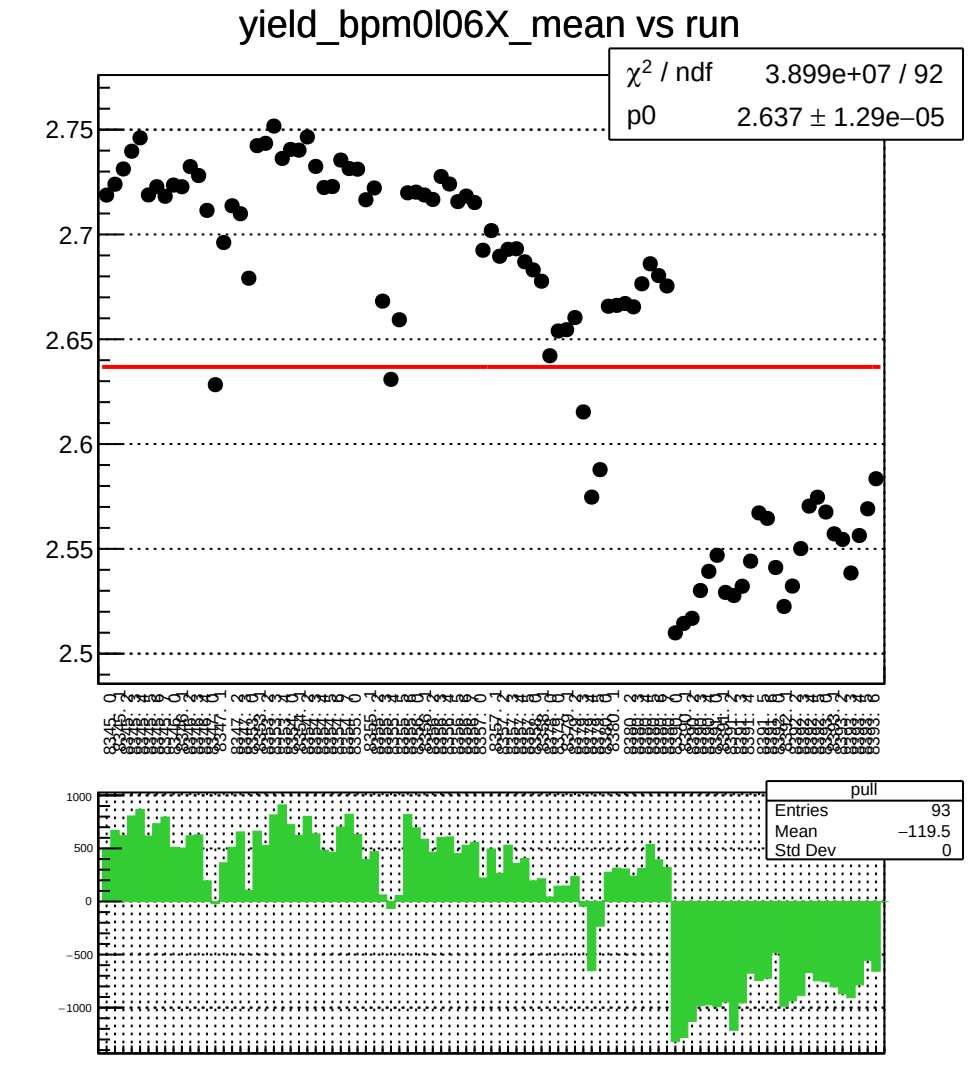

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

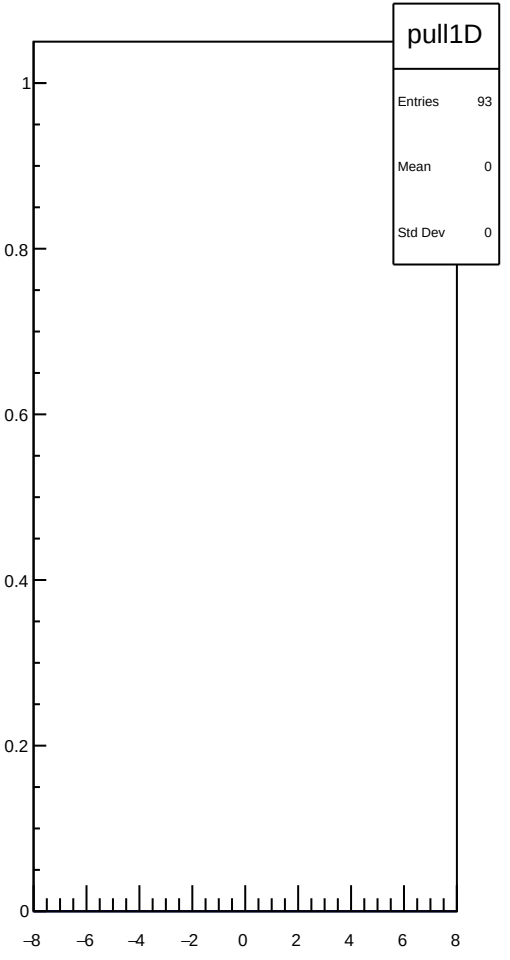

yield_bpm0l05X_rms vs run
χ² / ndf 7.242e+04 / 92
p0 0.003689 ± 2.791e−06
0.014
0.012
0.01
0.008
0.006
0.004
0.002

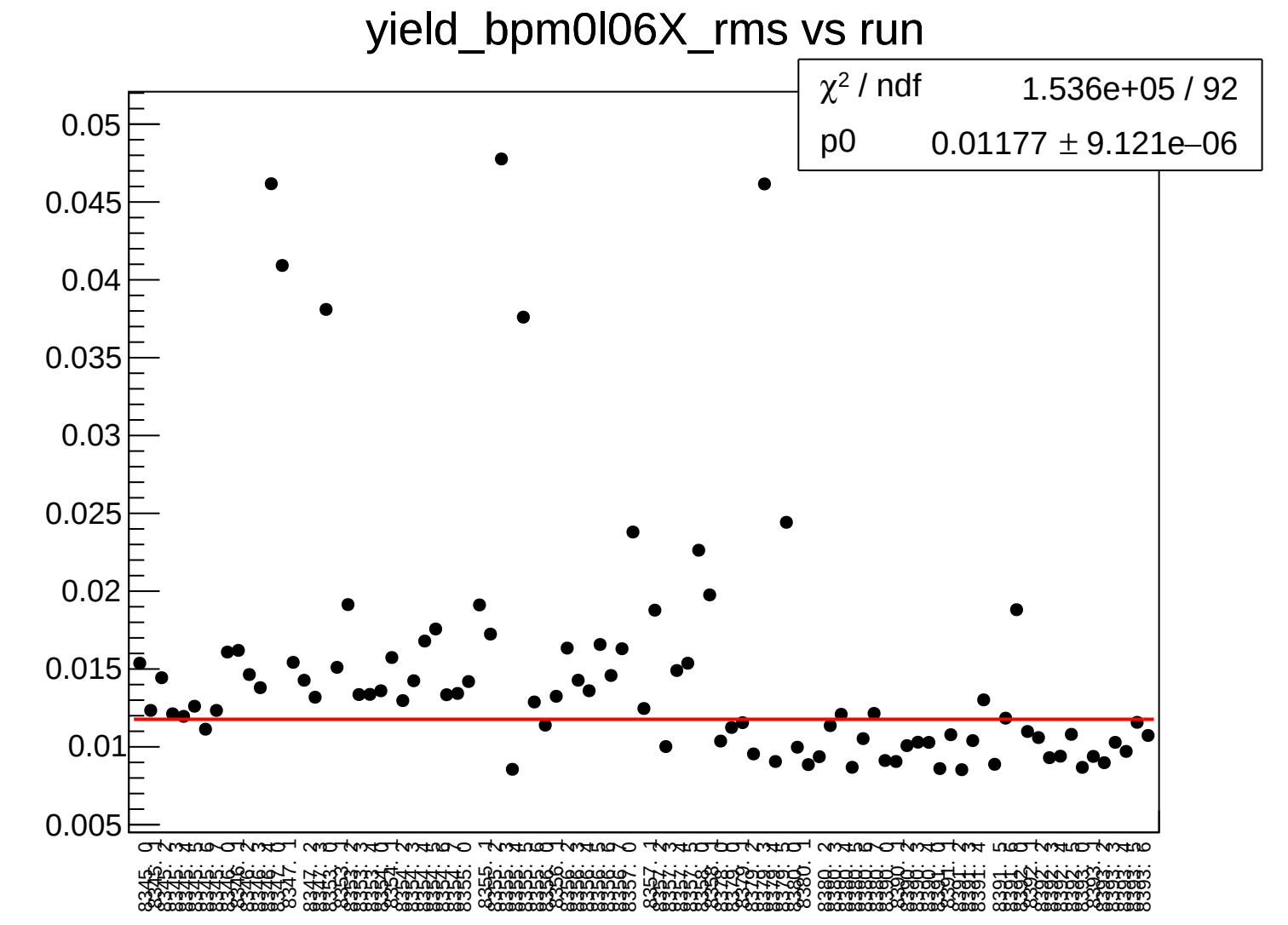

yield_bpm0l05Y_mean vs run
χ² / ndf 1.375e+07 / 92
p0 0.1519 ± 6.413e−06
0.18
0.16
0.14
0.12
0.1
pull
Entries 93
Mean 1198
Std Dev 0
400
200
0
−200
−400
−600
−800

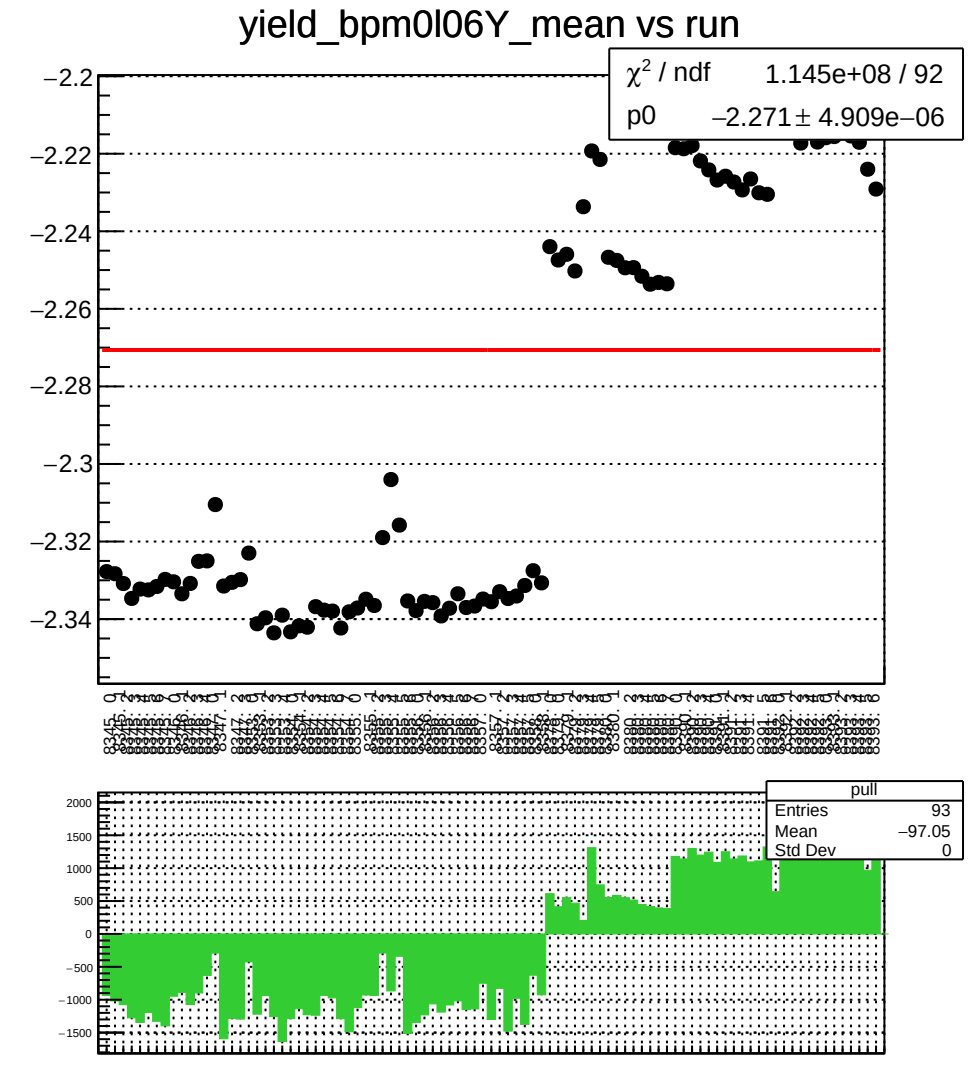

pull1D
Entries 93
Mean −2.315
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

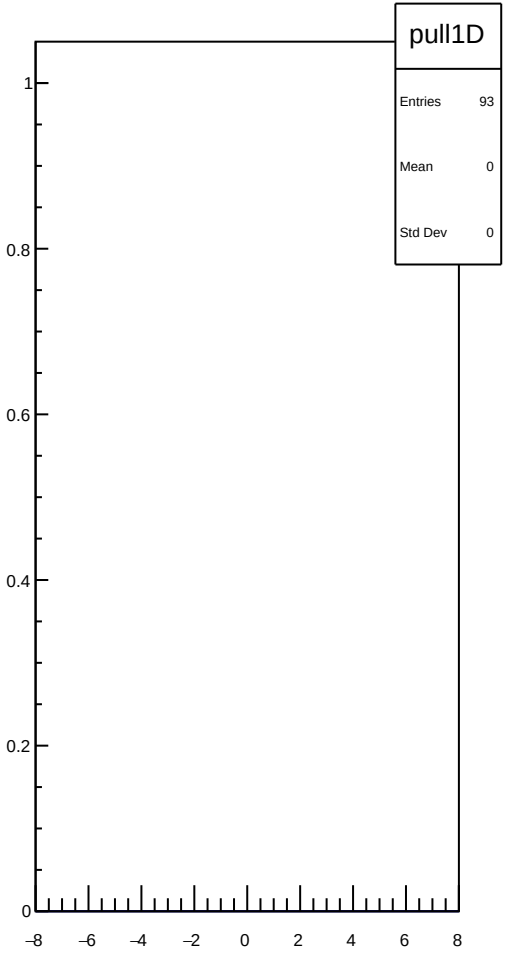

yield_bpm0l05Y_rms vs run
χ² / ndf 3.892e+04 / 92
p0 0.00605 ± 4.535e–06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005

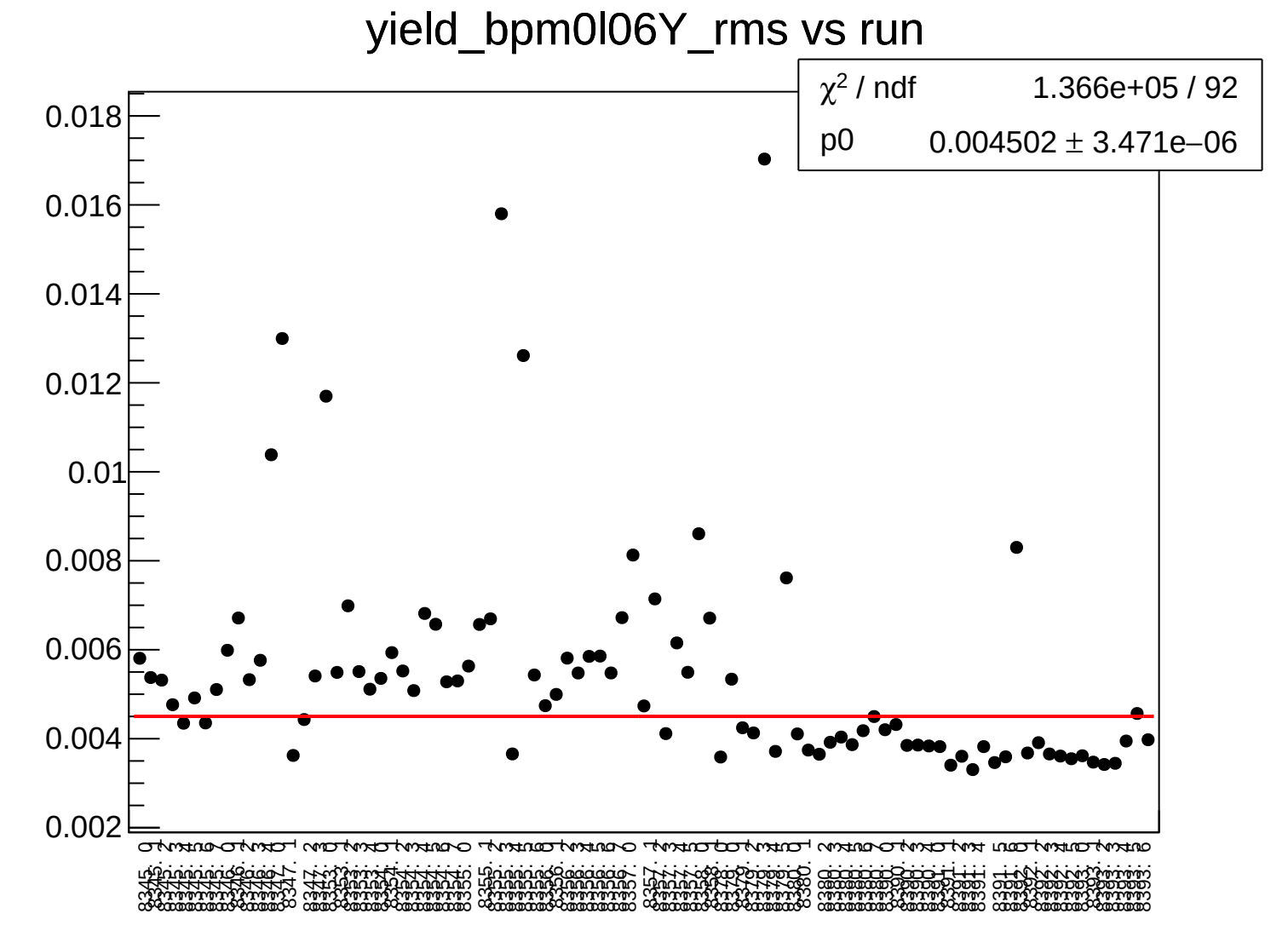

yield_bpm0l06X_mean vs run
χ² / ndf 3.899e+07 / 92
p0 2.637 ± 1.29e−05
2.75
2.7
2.65
2.6
2.55
2.5
pull
Entries 93
Mean −119.5
Std Dev 0
1000
500
0
−500
−1000

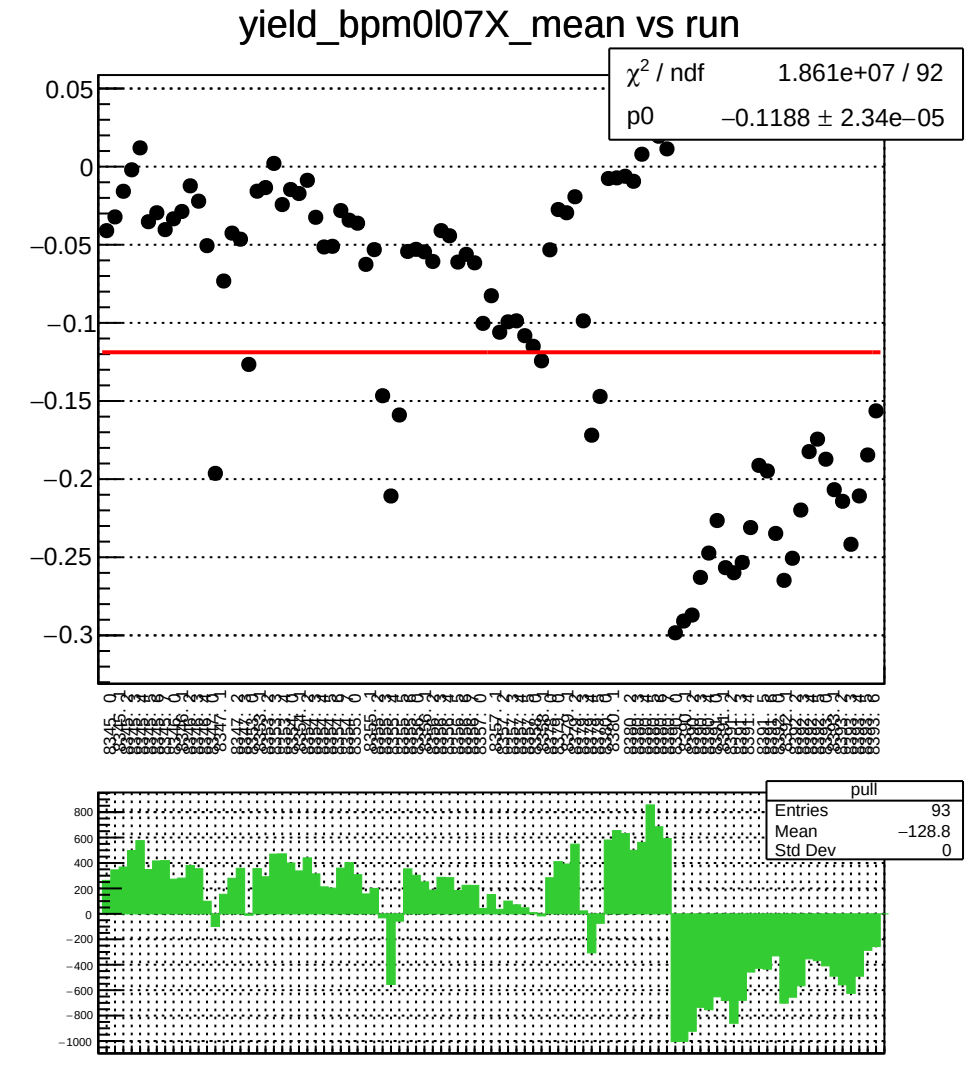

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

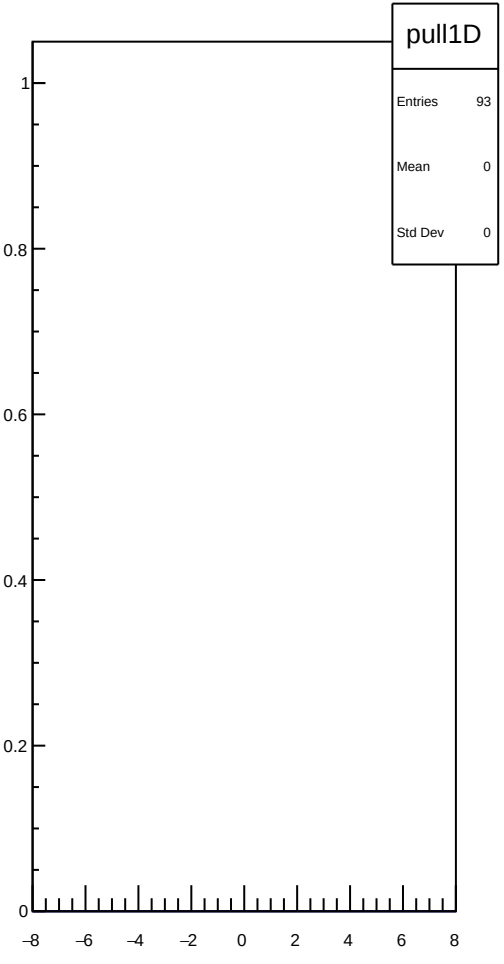

yield_bpm0l06X_rms vs run
χ² / ndf 1.536e+05 / 92
p0 0.01177 ± 9.121e–06
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

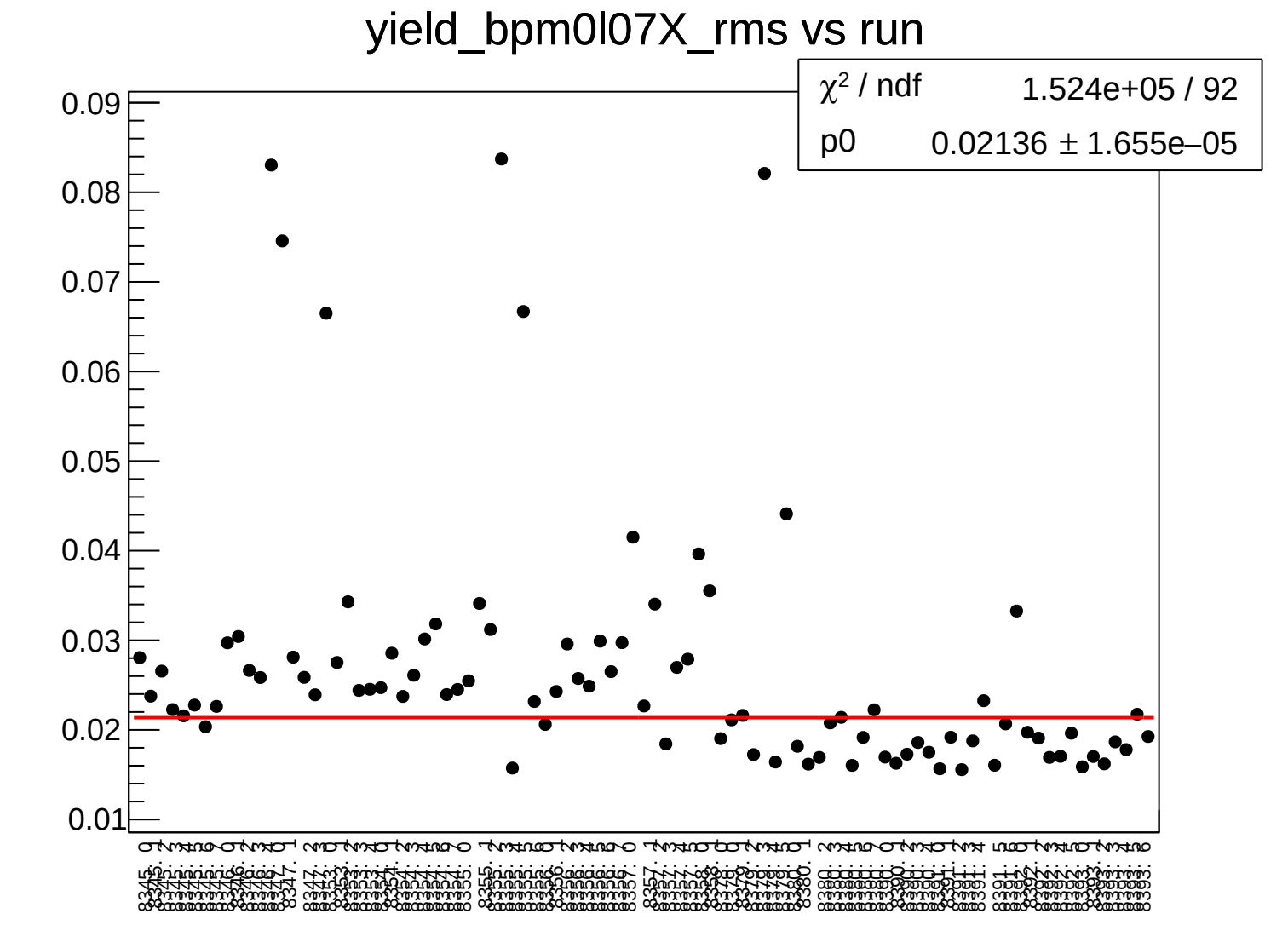

yield_bpm0l06Y_mean vs run
χ² / ndf 1.145e+08 / 92
p0 −2.271 ± 4.909e−06
−2.2
−2.22
−2.24
−2.26
−2.28
−2.3
−2.32
−2.34
pull
Entries 93
Mean −97.05
Std Dev 0
2000
1500
1000
500
0
−500
−1000
−1500

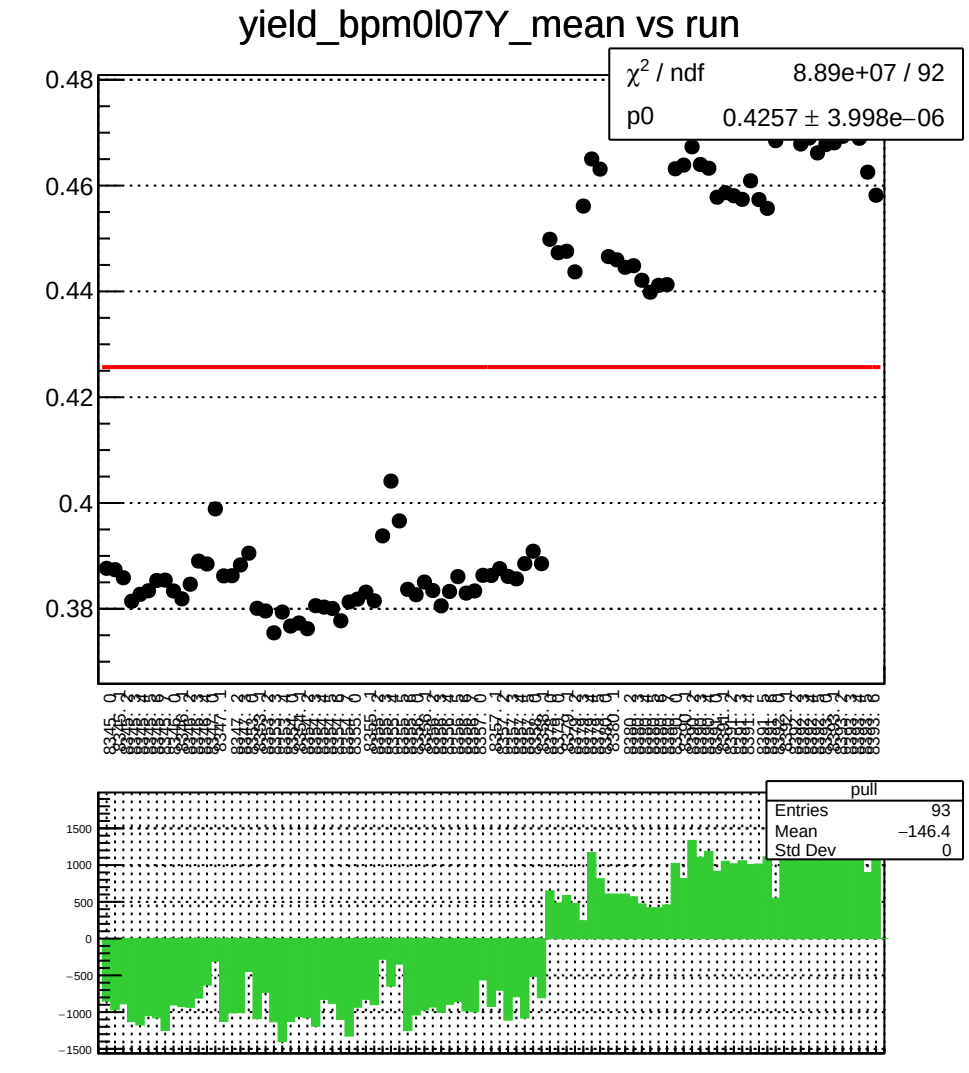

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

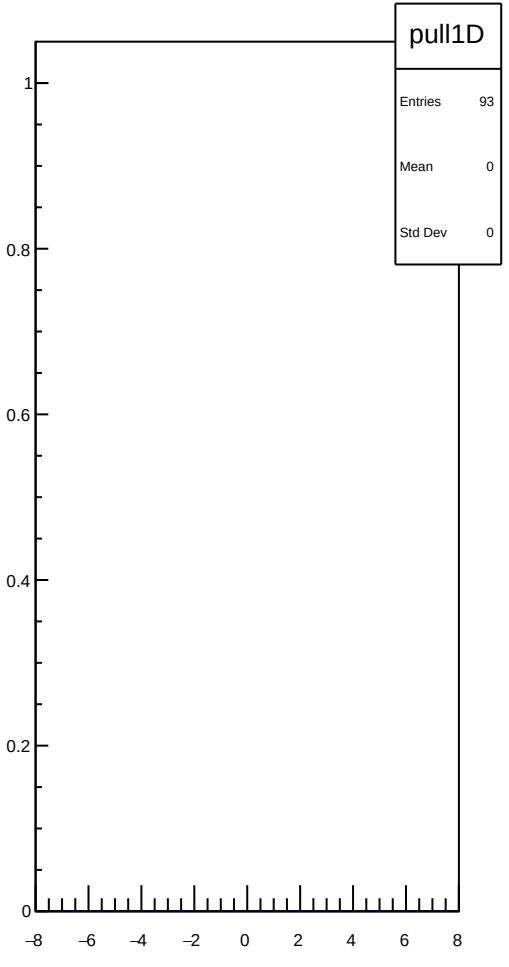

yield_bpm0l06Y_rms vs run
χ^2 / ndf 1.366e+05 / 92
p0 0.004502 ± 3.471e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

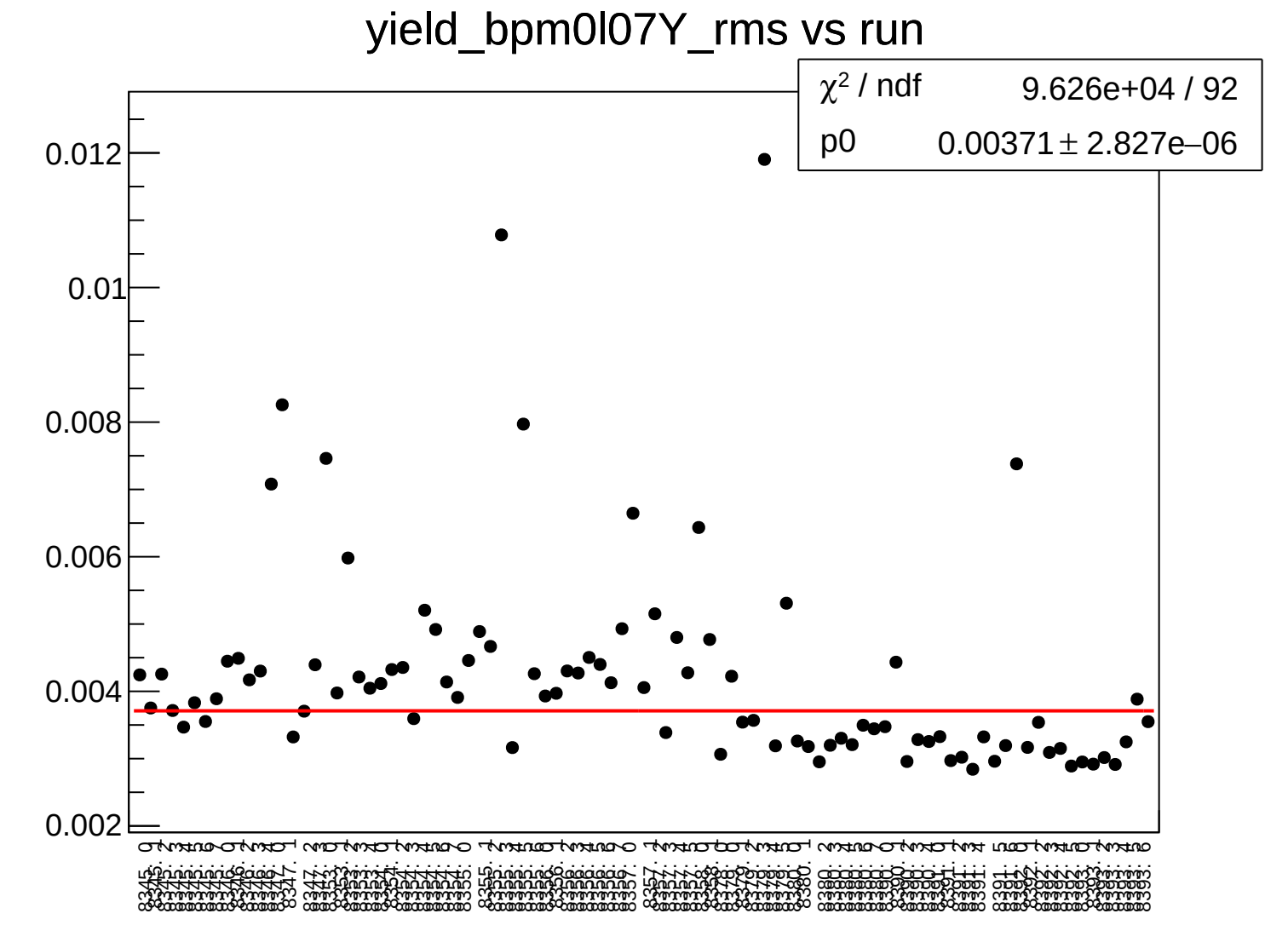

yield_bpm0l07X_mean vs run
χ² / ndf 1.861e+07 / 92
p0 −0.1188 ± 2.34e−05
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25
−0.3
pull
Entries 93
Mean −128.8
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800
−1000

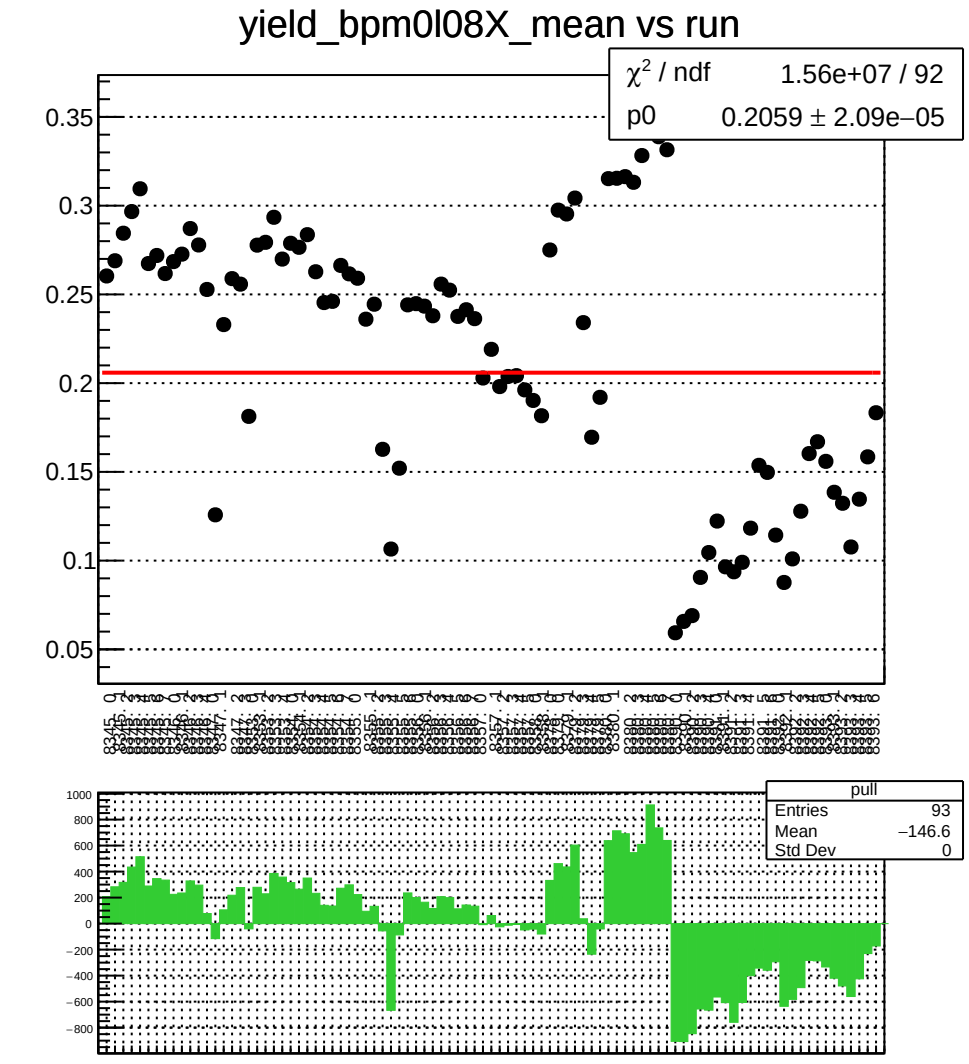

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

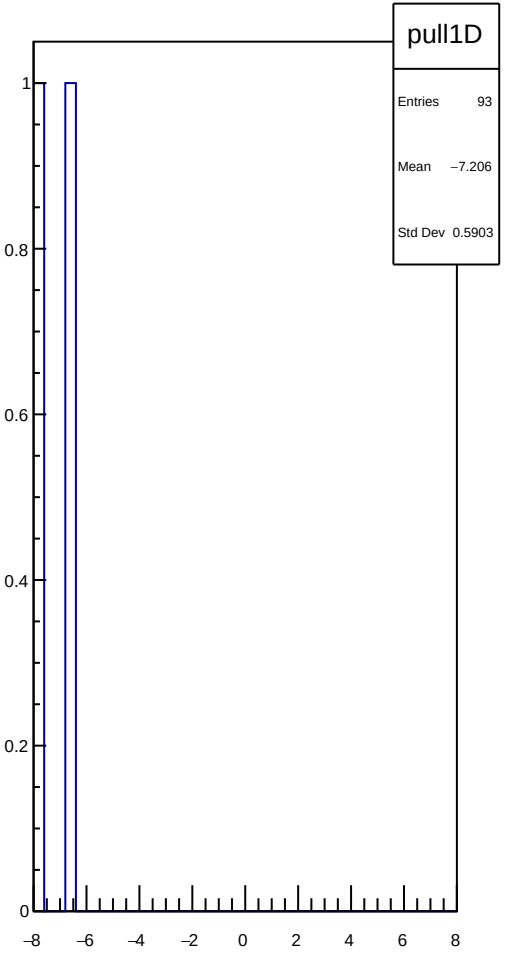

yield_bpm0l07X_rms vs run
χ² / ndf 1.524e+05 / 92
p0 0.02136 ± 1.655e–05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

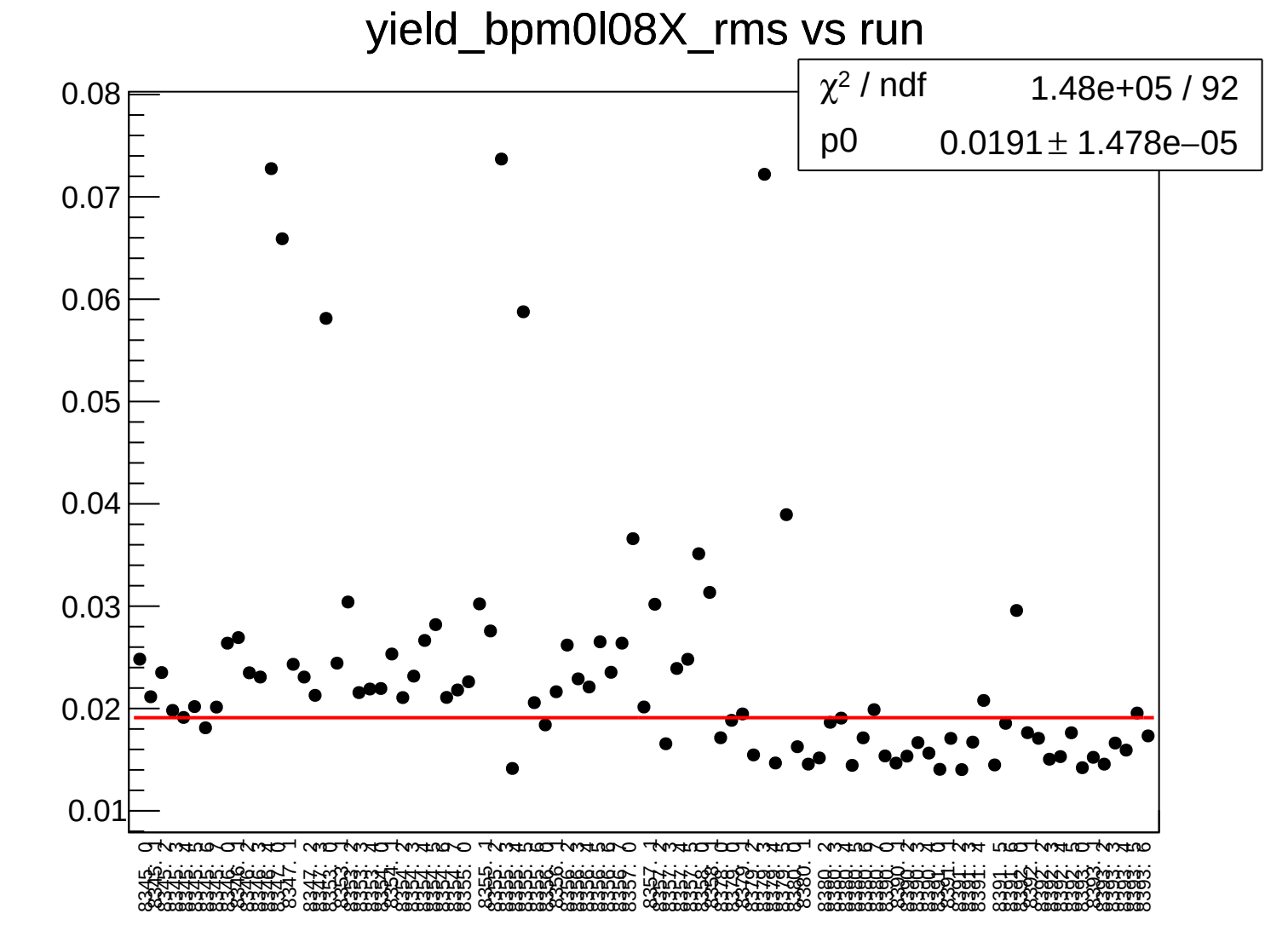

yield_bpm0l07Y_mean vs run
χ² / ndf 8.89e+07 / 92
p0 0.4257 ± 3.998e−06
0.48
0.46
0.44
0.42
0.4
0.38
pull
Entries 93
Mean −146.4
Std Dev 0
1500
1000
500
0
−500
−1000
−1500

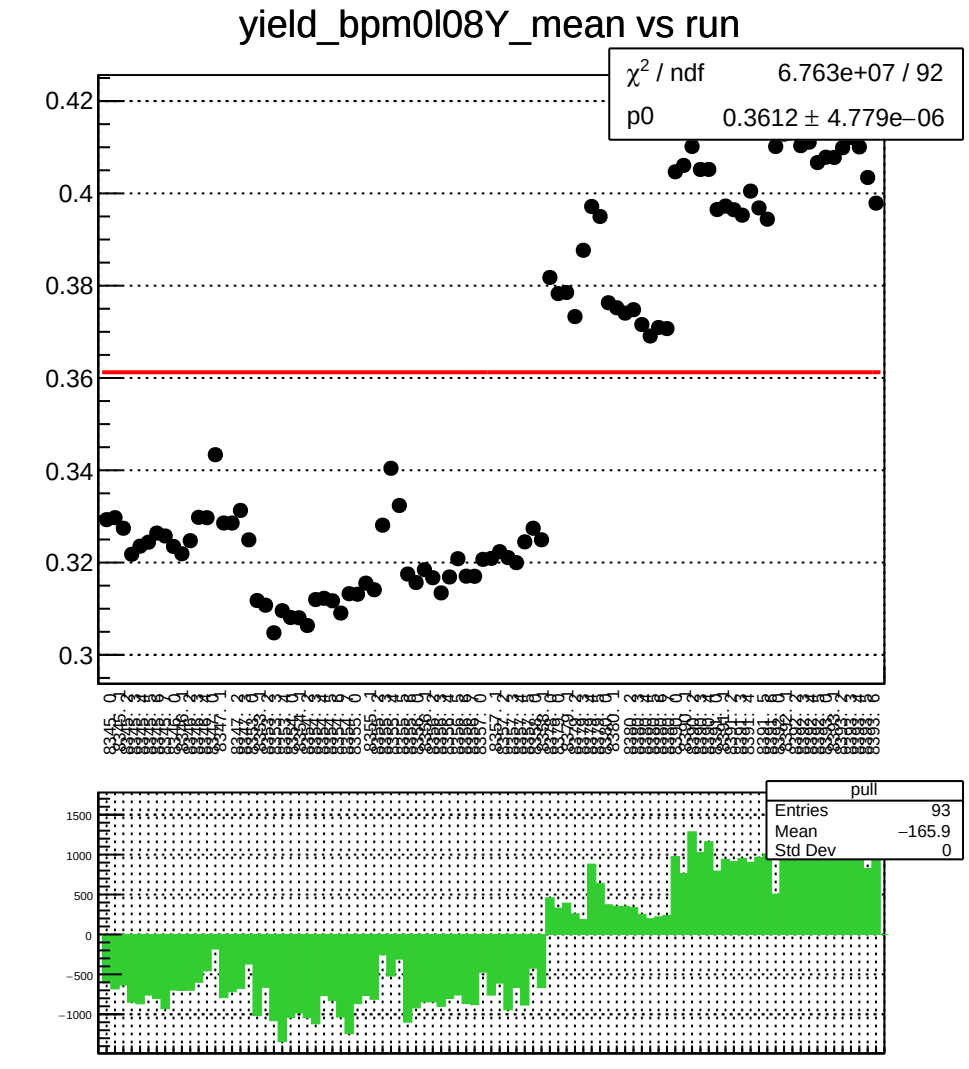

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

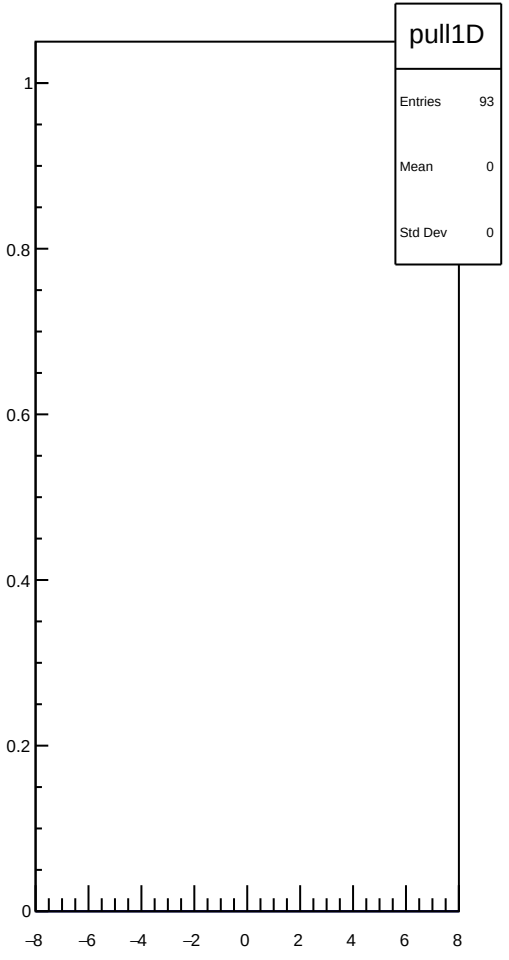

yield_bpm0l07Y_rms vs run
χ² / ndf 9.626e+04 / 92
p0 0.00371 ± 2.827e–06
0.012
0.01
0.008
0.006
0.004
0.002

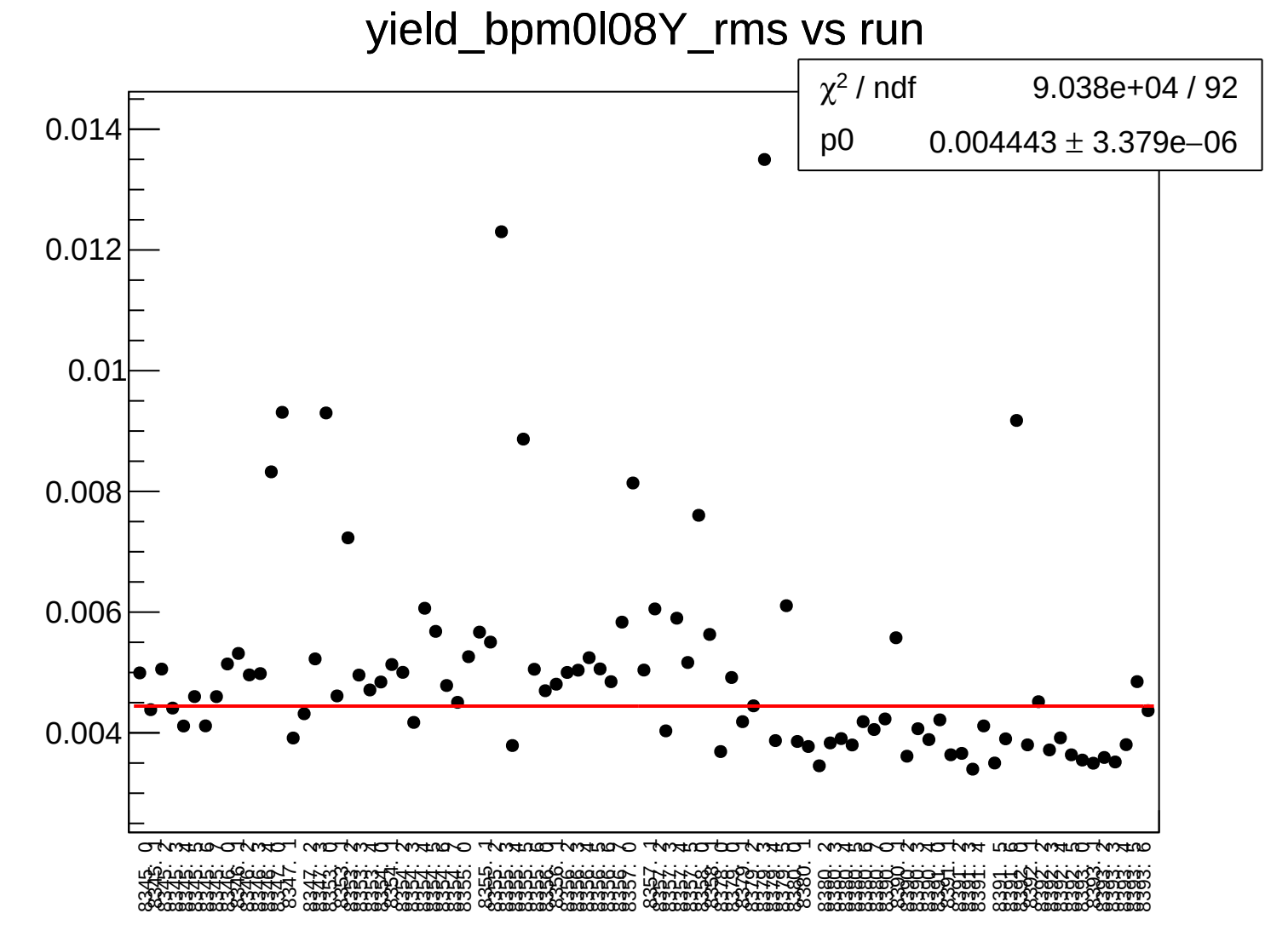

yield_bpm0l08X_mean vs run
χ² / ndf 1.56e+07 / 92
p0 0.2059 ± 2.09e−05
0.35
0.3
0.25
0.2
0.15
0.1
0.05
pull
Entries 93
Mean −146.6
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600
−800

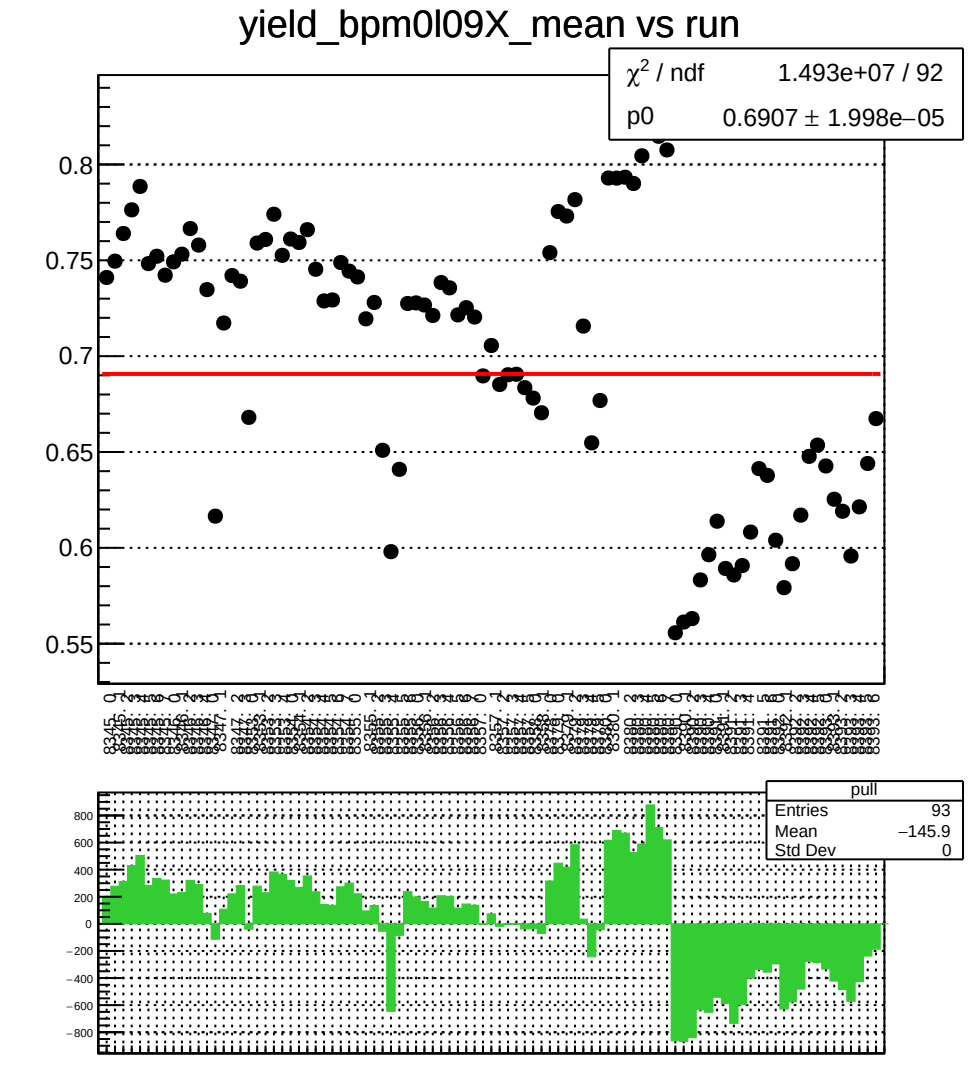

pull1D
Entries 93
Mean −7.206
Std Dev 0.5903
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

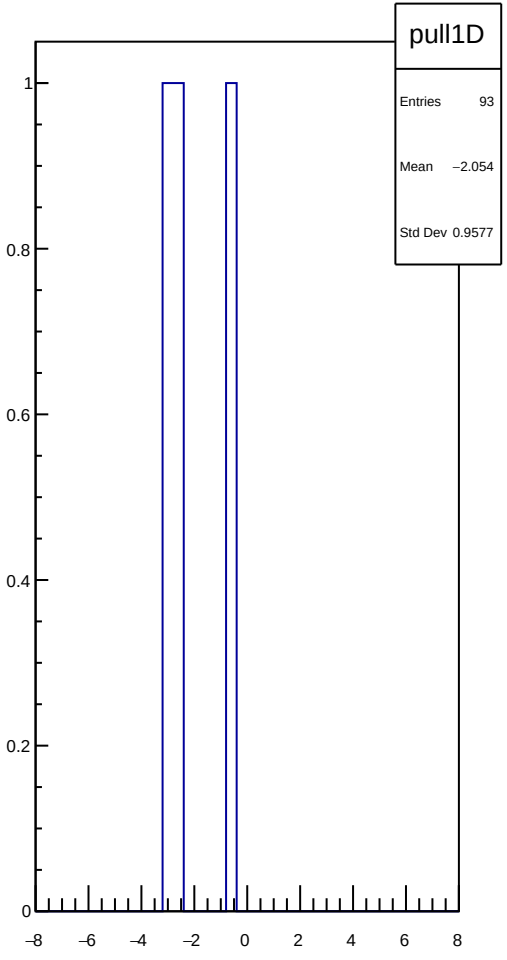

yield_bpm0l08X_rms vs run
χ² / ndf 1.48e+05 / 92
p0 0.0191 ± 1.478e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

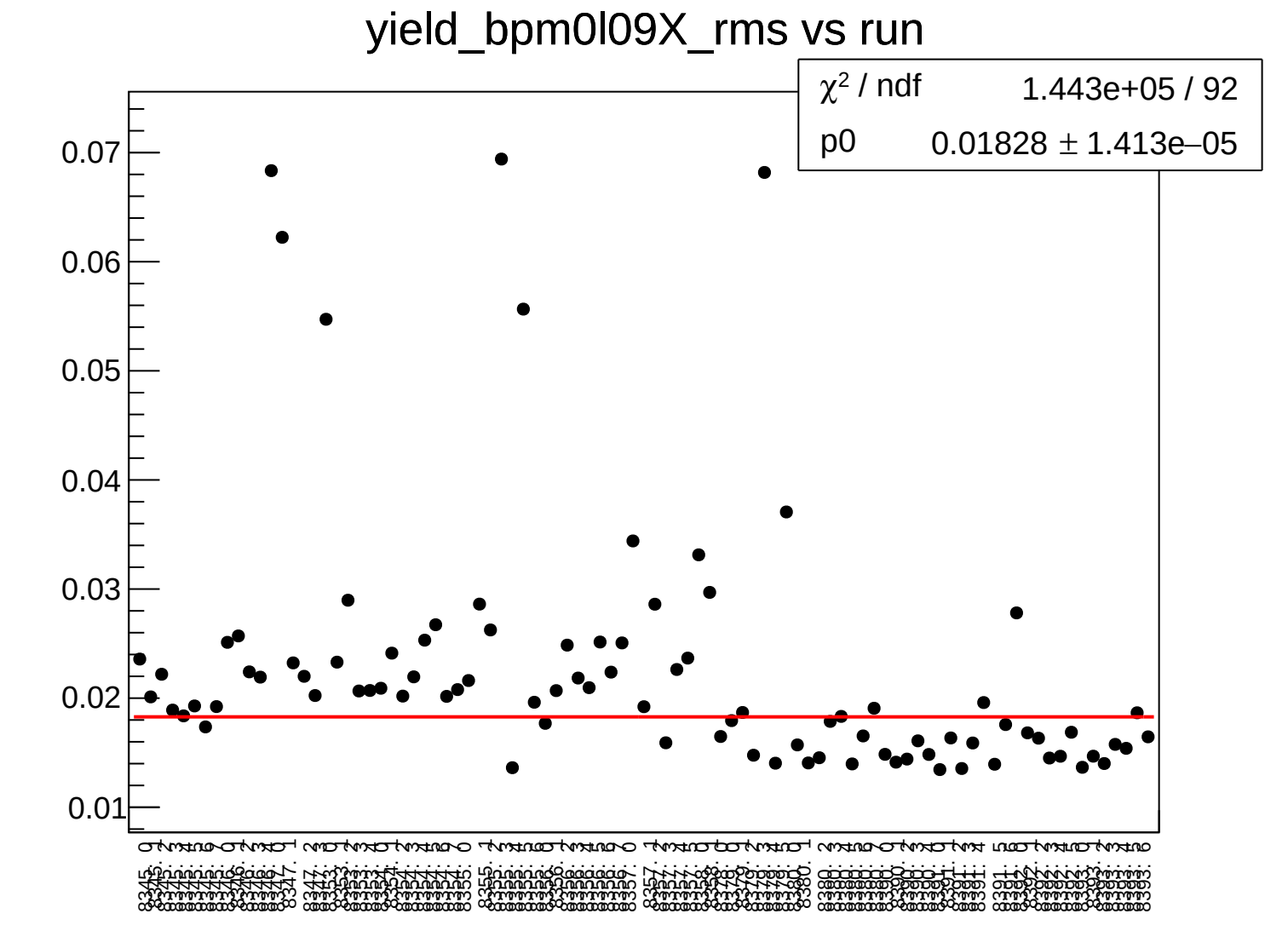

yield_bpm0l08Y_mean vs run
χ² / ndf 6.763e+07 / 92
p0 0.3612 ± 4.779e−06
0.42
0.4
0.38
0.36
0.34
0.32
0.3
pull
Entries 93
Mean −165.9
Std Dev 0
1500
1000
500
0
−500
−1000

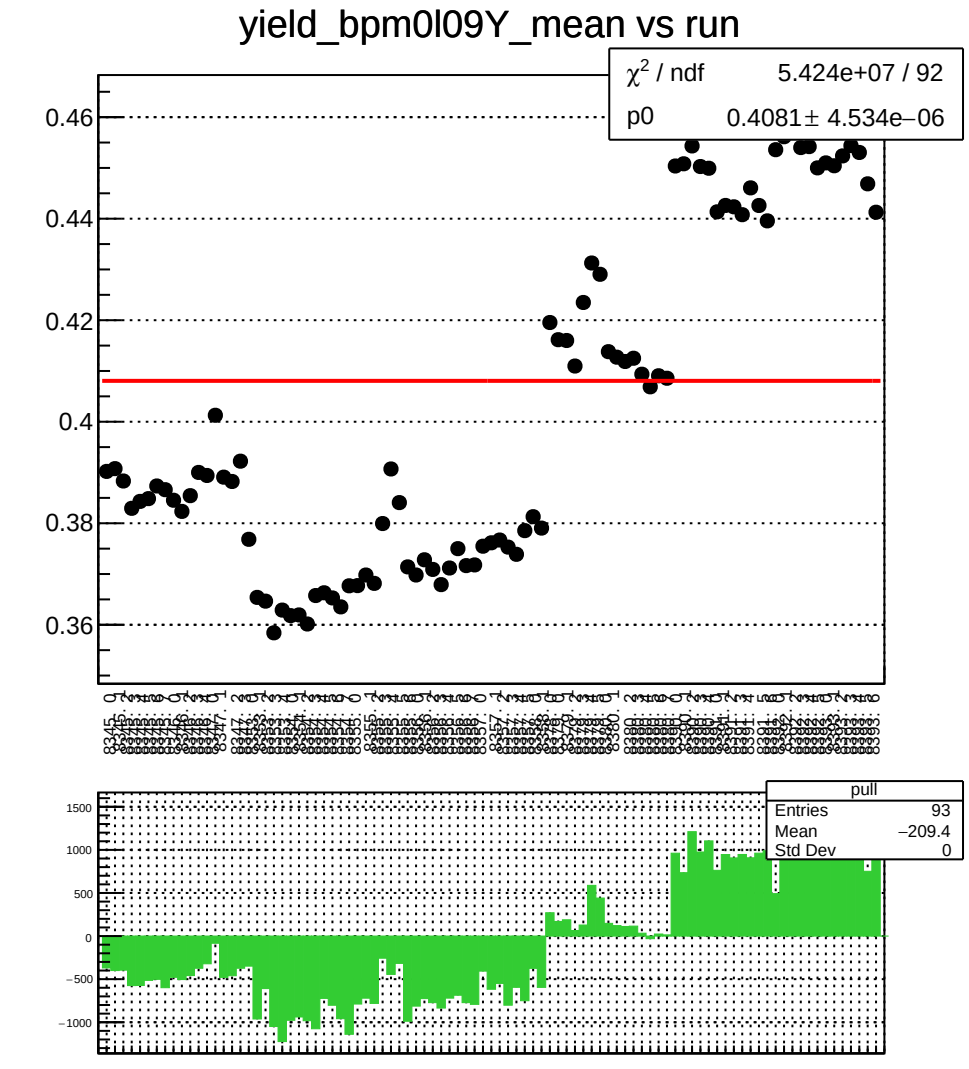

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

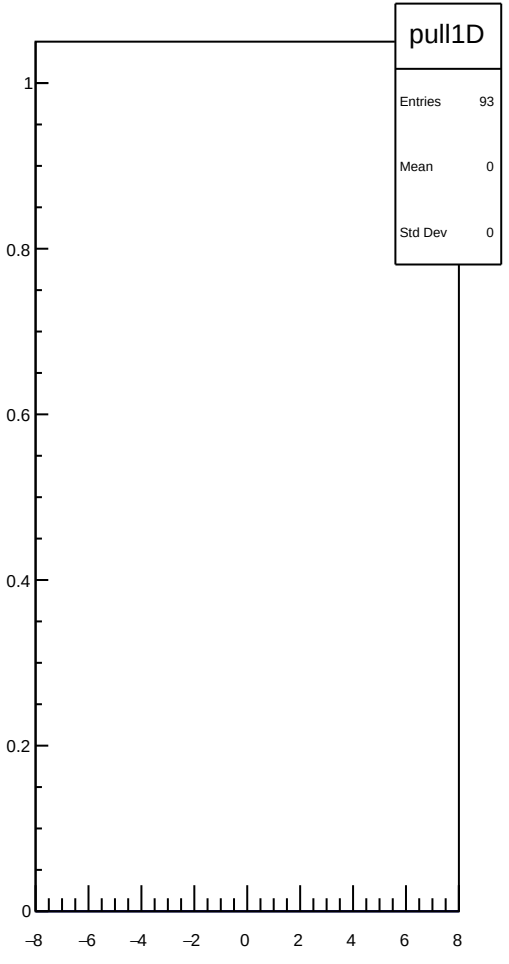

yield_bpm0l08Y_rms vs run
χ^2 / ndf 9.038e+04 / 92
p0 0.004443 ± 3.379e−06
0.014
0.012
0.01
0.008
0.006
0.004

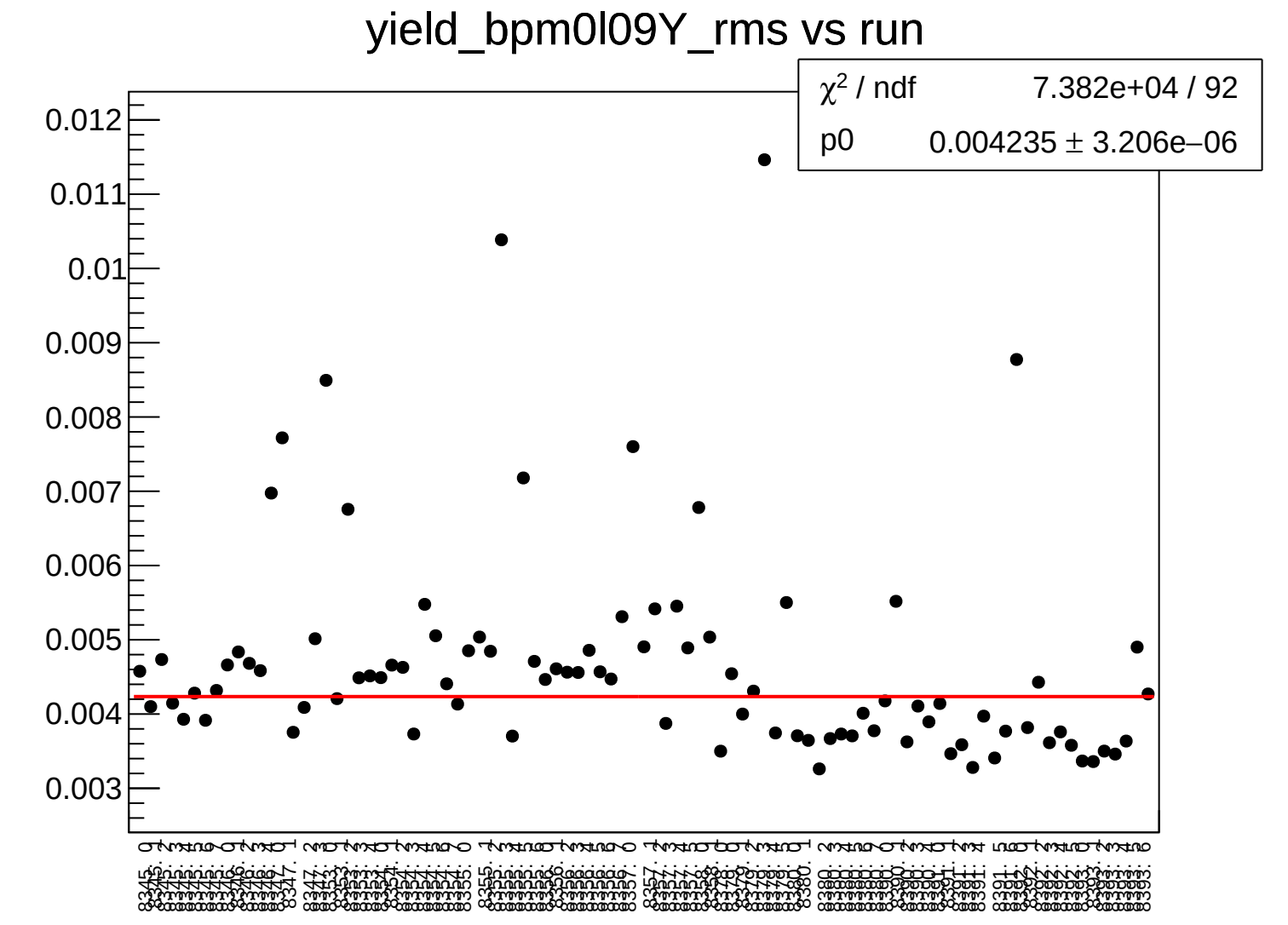

yield_bpm0l09X_mean vs run
χ² / ndf 1.493e+07 / 92
p0 0.6907 ± 1.998e−05
0.8
0.75
0.7
0.65
0.6
0.55
pull
Entries 93
Mean −145.9
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800

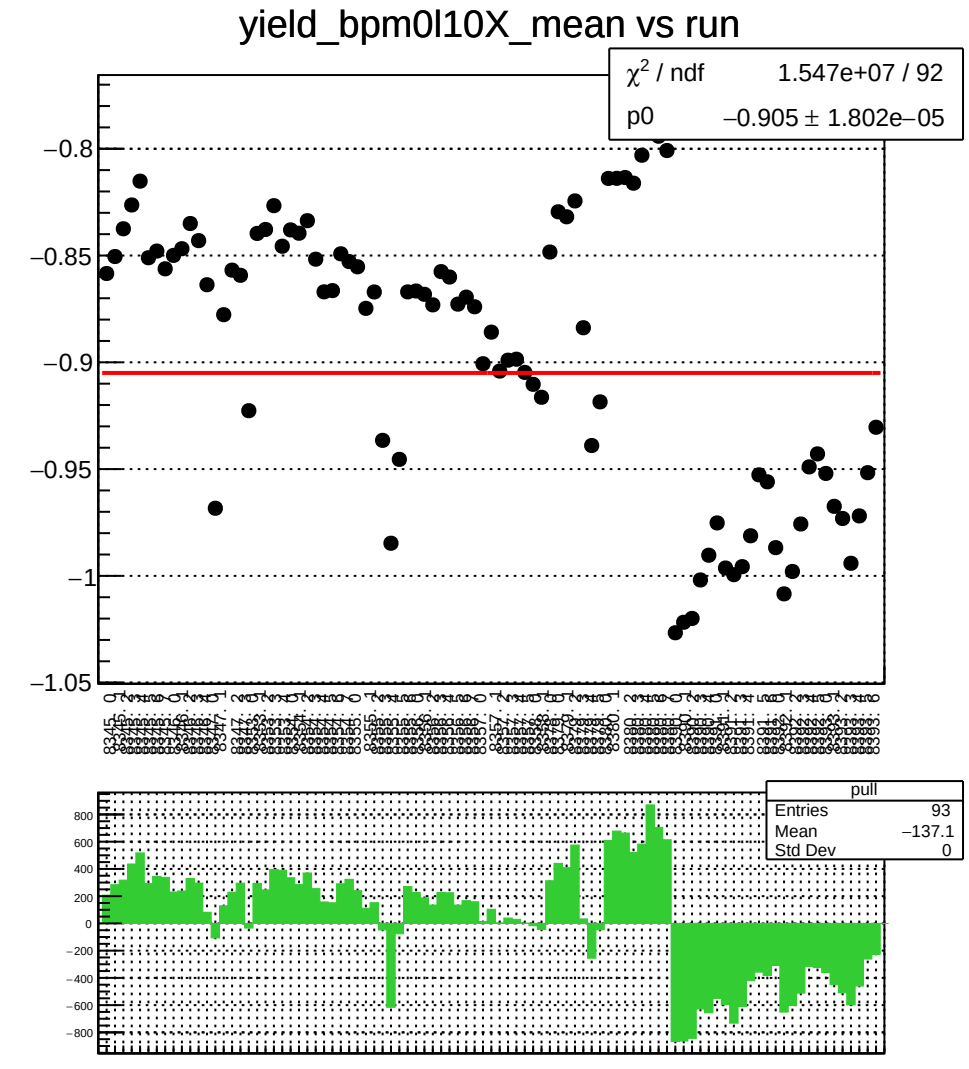

pull1D
Entries 93
Mean −2.054
Std Dev 0.9577
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

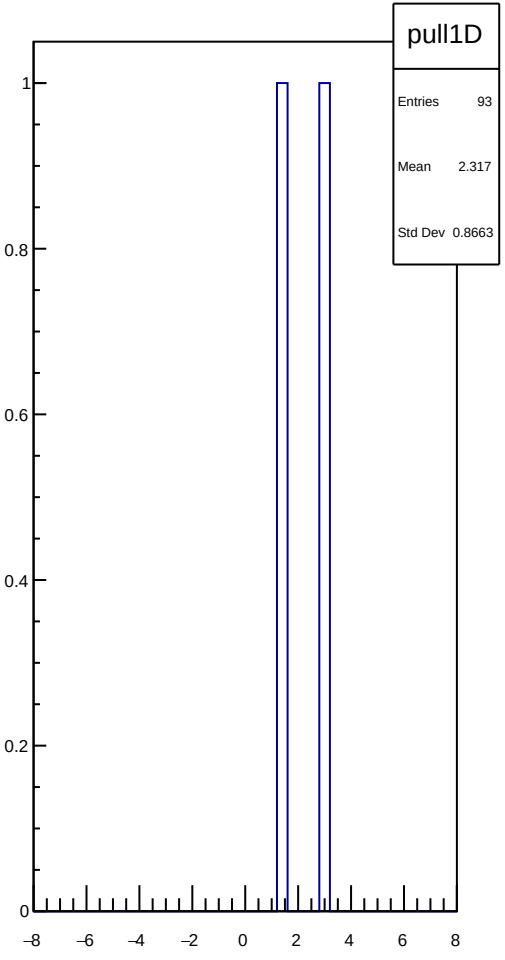

yield_bpm0l09X_rms vs run
χ² / ndf 1.443e+05 / 92
p0 0.01828 ± 1.413e–05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

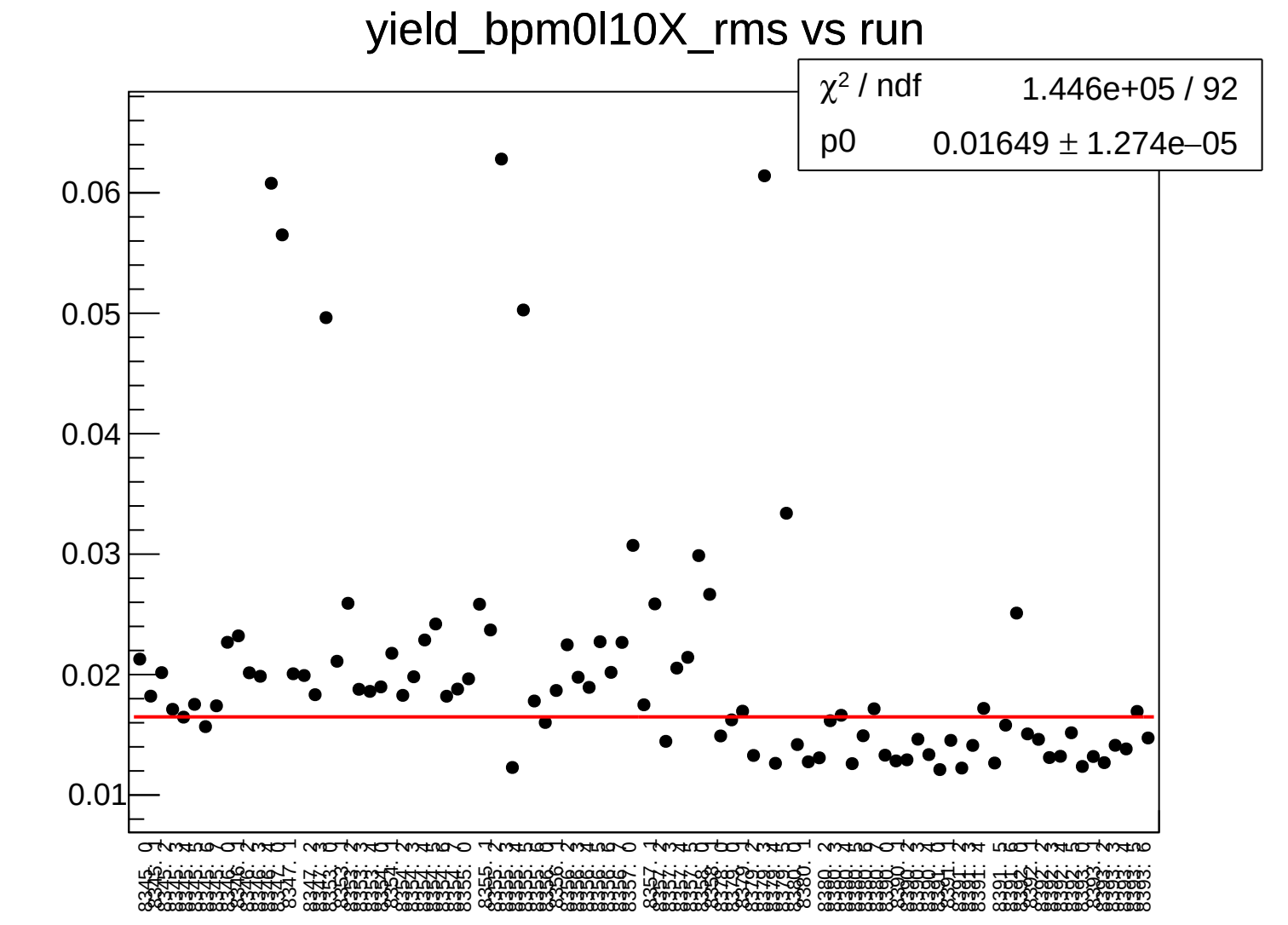

yield_bpm0l09Y_mean vs run
χ² / ndf 5.424e+07 / 92
p0 0.4081 ± 4.534e−06
0.46
0.44
0.42
0.4
0.38
0.36
pull
Entries 93
Mean −209.4
Std Dev 0
1500
1000
500
0
−500
−1000

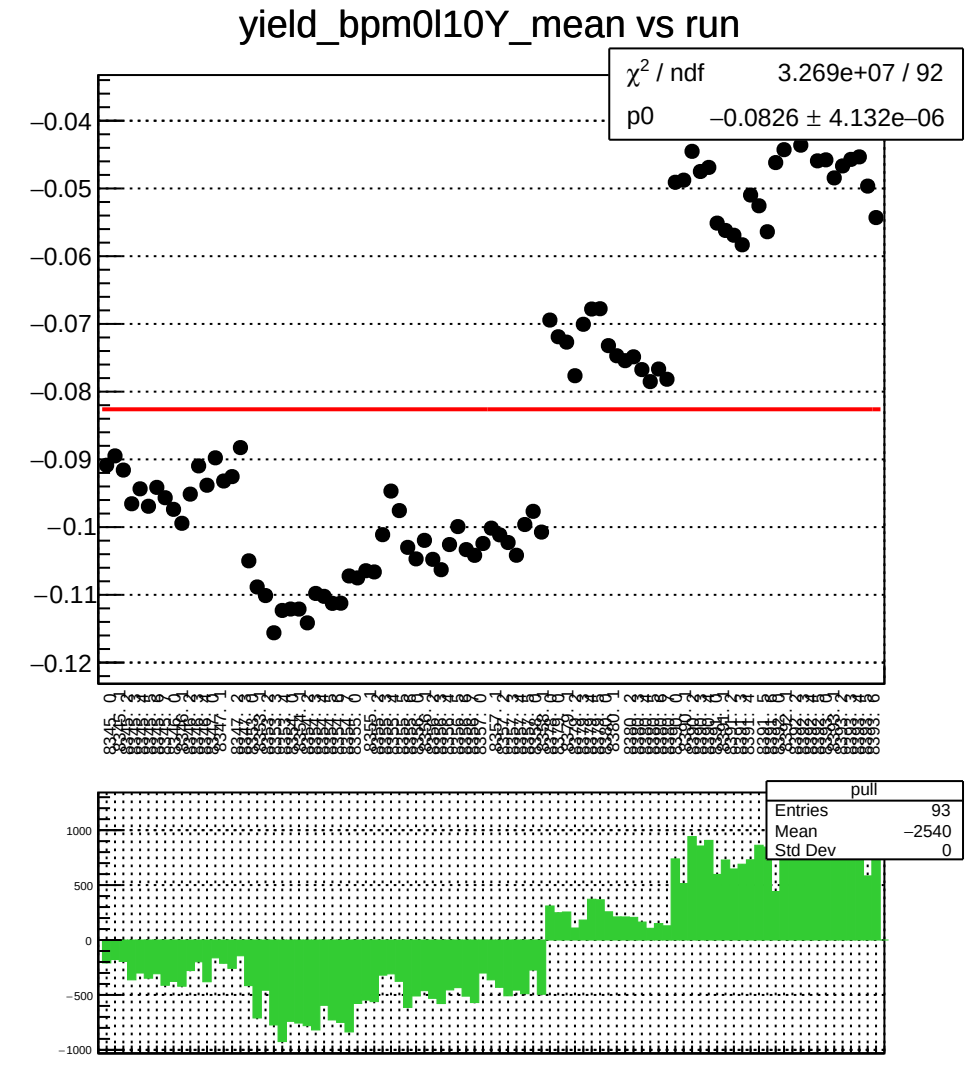

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

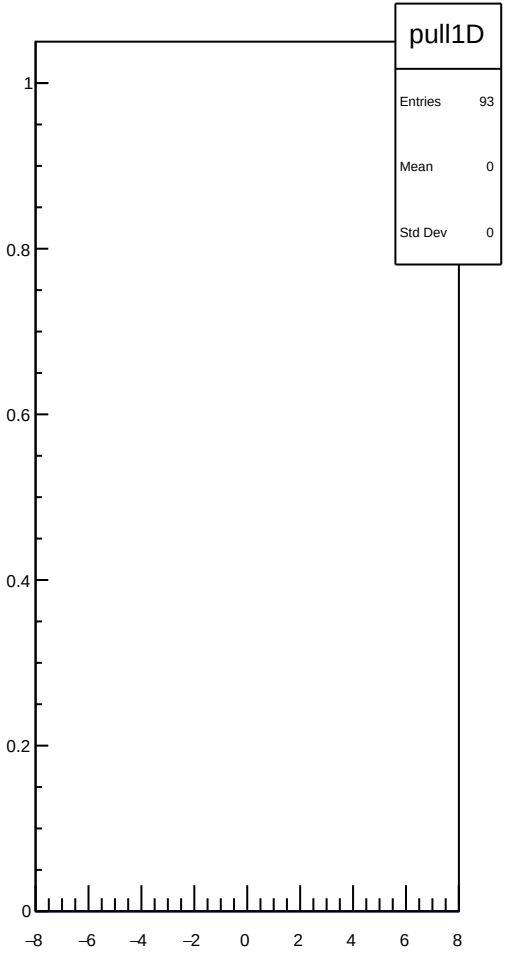

yield_bpm0l09Y_rms vs run
χ² / ndf 7.382e+04 / 92
p0 0.004235 ± 3.206e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

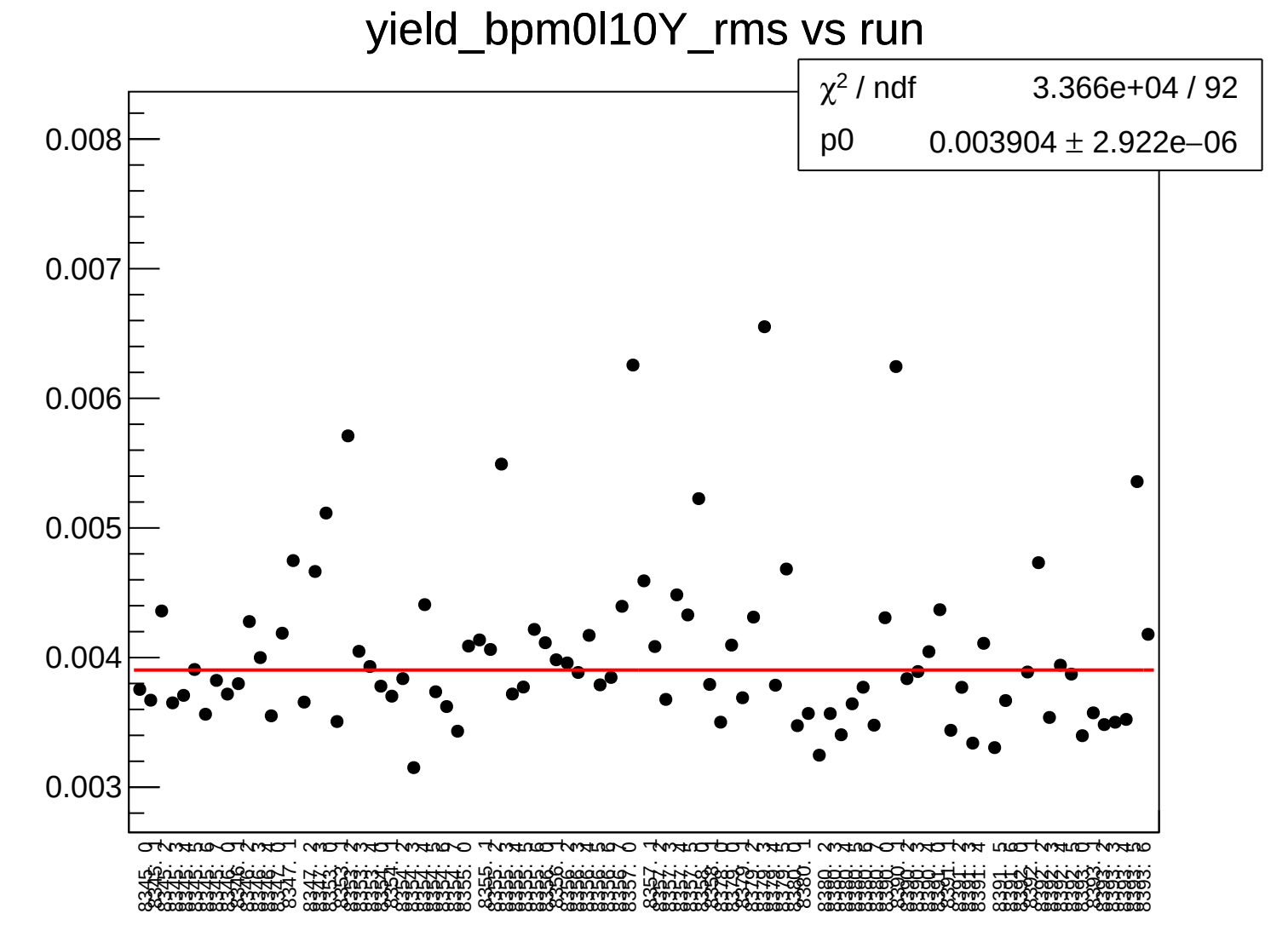

yield_bpm0l10X_mean vs run
χ² / ndf 1.547e+07 / 92
p0 −0.905 ± 1.802e−05
−0.8
−0.85
−0.9
−0.95
−1
−1.05
pull
Entries 93
Mean −137.1
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800

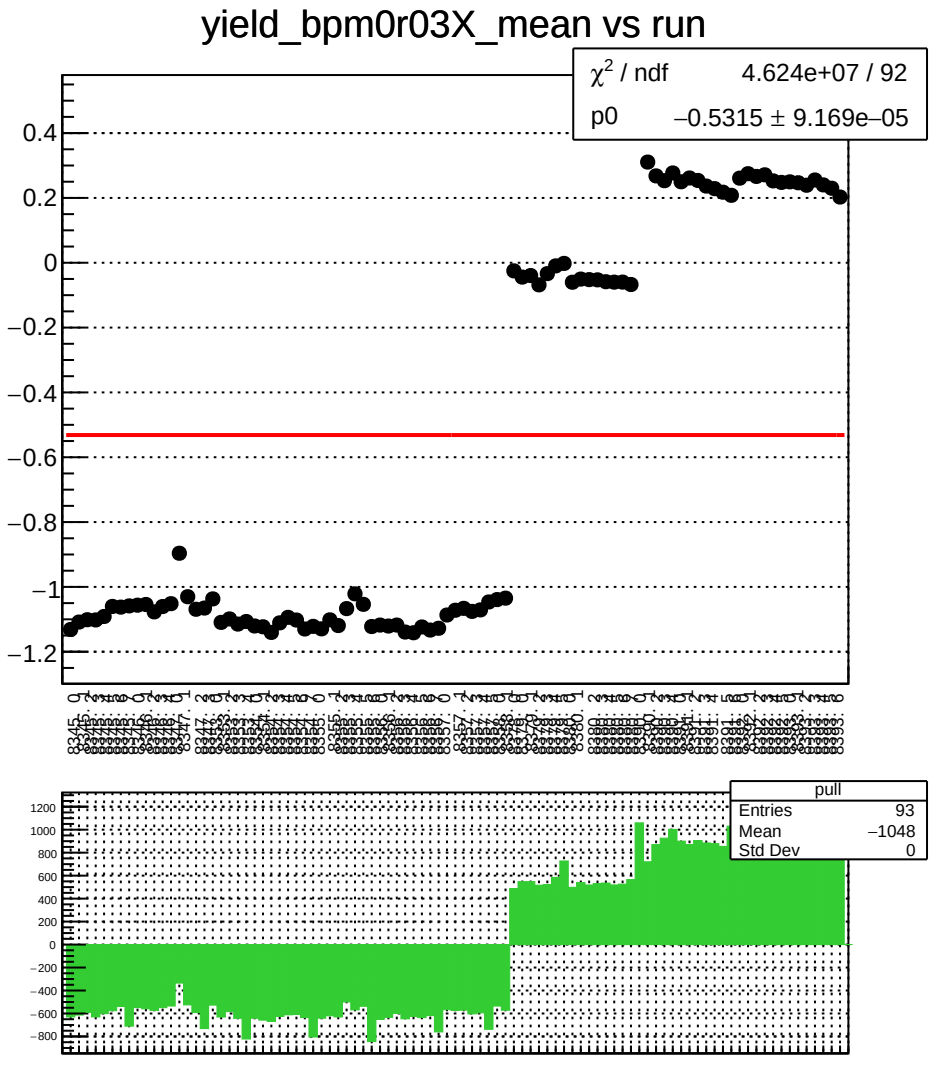

pull1D
Entries 93
Mean 2.317
Std Dev 0.8663
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

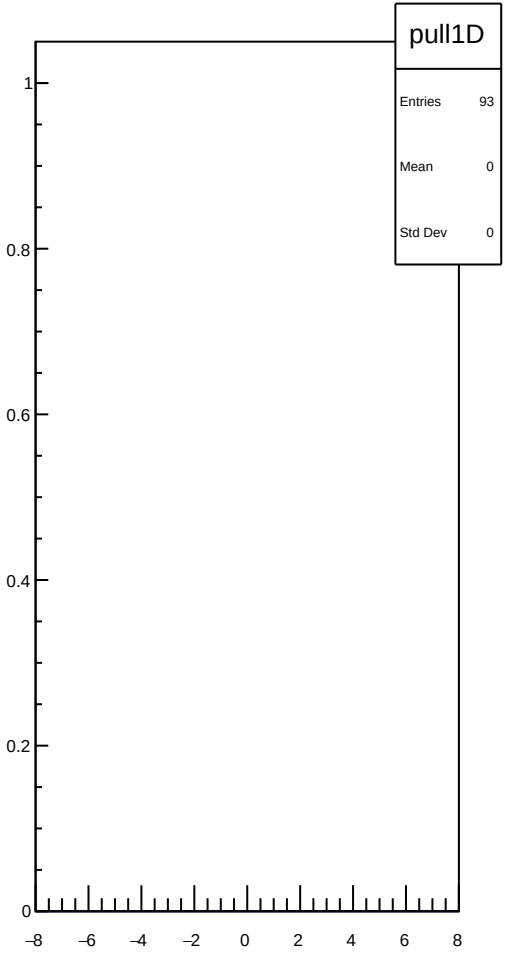

yield_bpm0l10X_rms vs run
χ² / ndf 1.446e+05 / 92
p0 0.01649 ± 1.274e−05
0.06
0.05
0.04
0.03
0.02
0.01

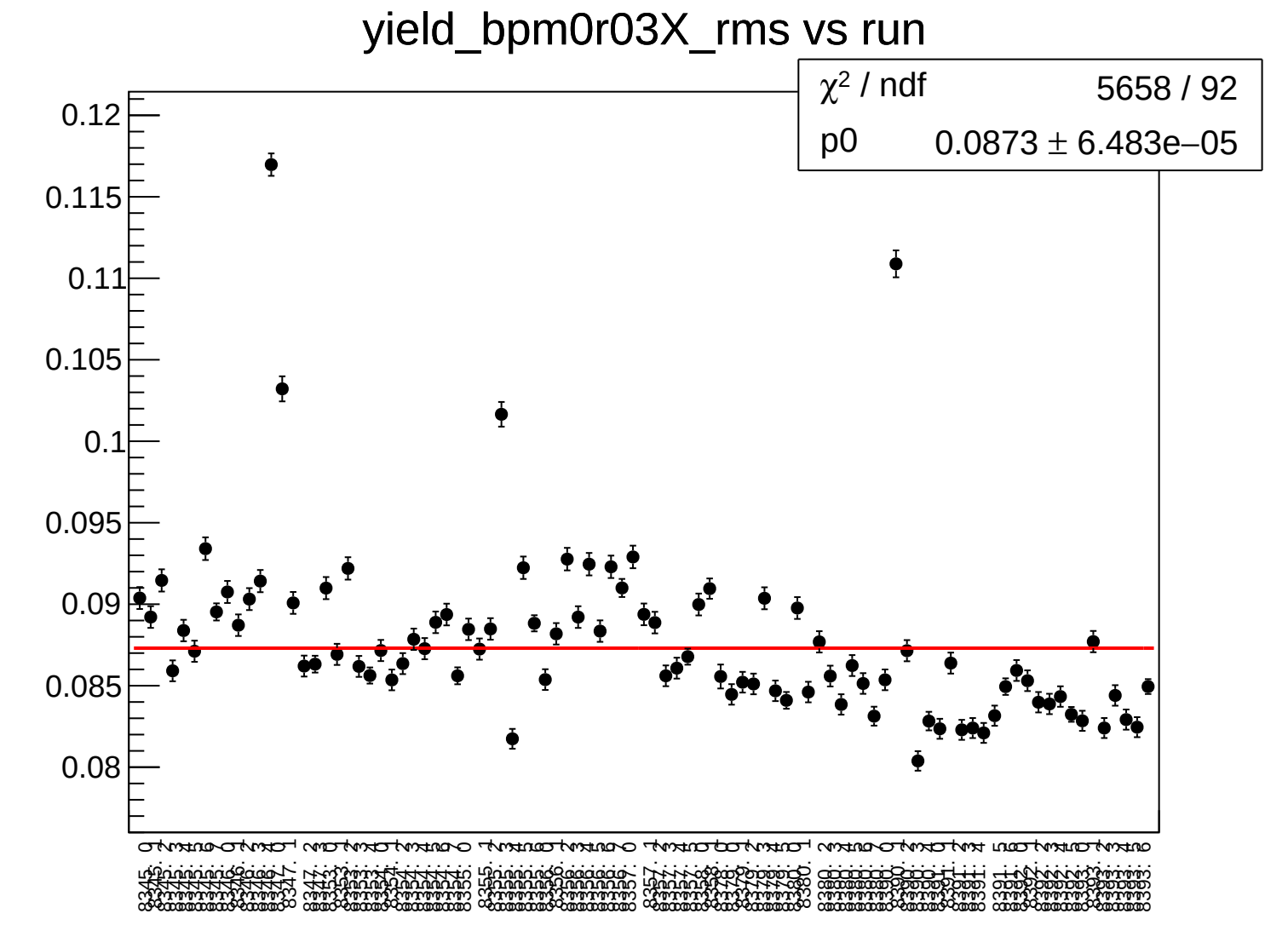

yield_bpm0l10Y_mean vs run
χ² / ndf 3.269e+07 / 92
p0 −0.0826 ± 4.132e−06
−0.04
−0.05
−0.06
−0.07
−0.08
−0.09
−0.1
−0.11
−0.12
pull
Entries 93
Mean −2540
Std Dev 0
1000
500
0
−500
−1000

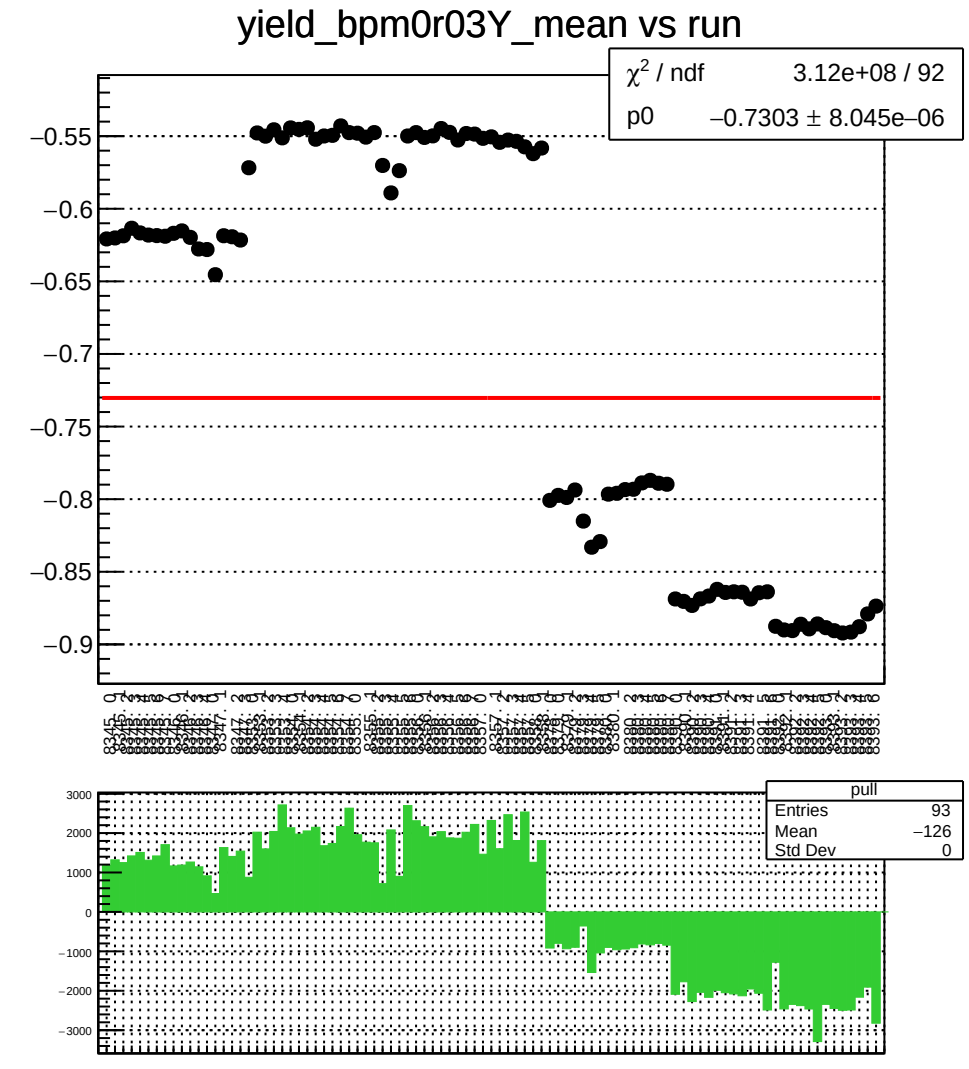

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

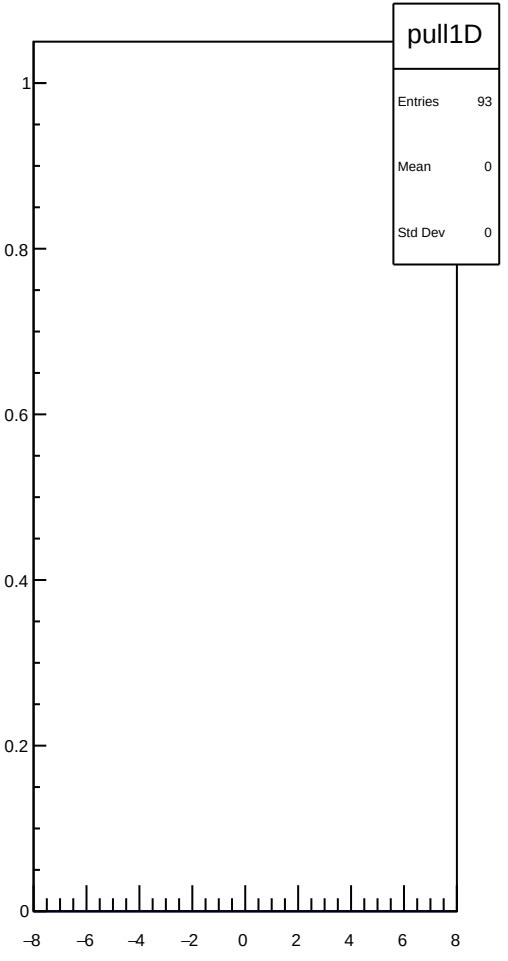

yield_bpm0l10Y_rms vs run
χ² / ndf 3.366e+04 / 92
p0 0.003904 ± 2.922e−06
0.008
0.007
0.006
0.005
0.004
0.003

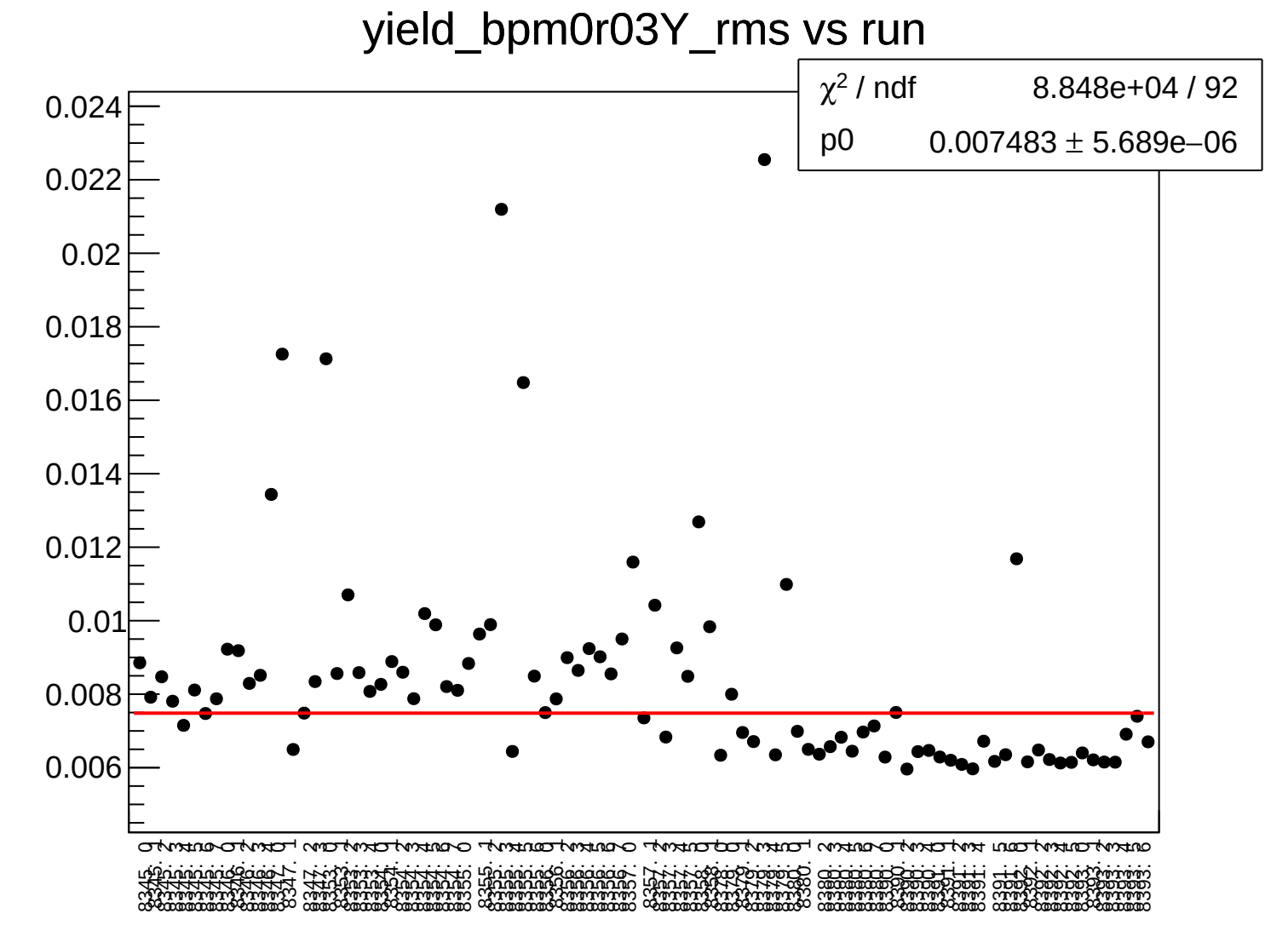

yield_bpm0r03X_mean vs run
χ² / ndf 4.624e+07 / 92
p0 −0.5315 ± 9.169e−05
pull
Entries 93
Mean −1048
Std Dev 0

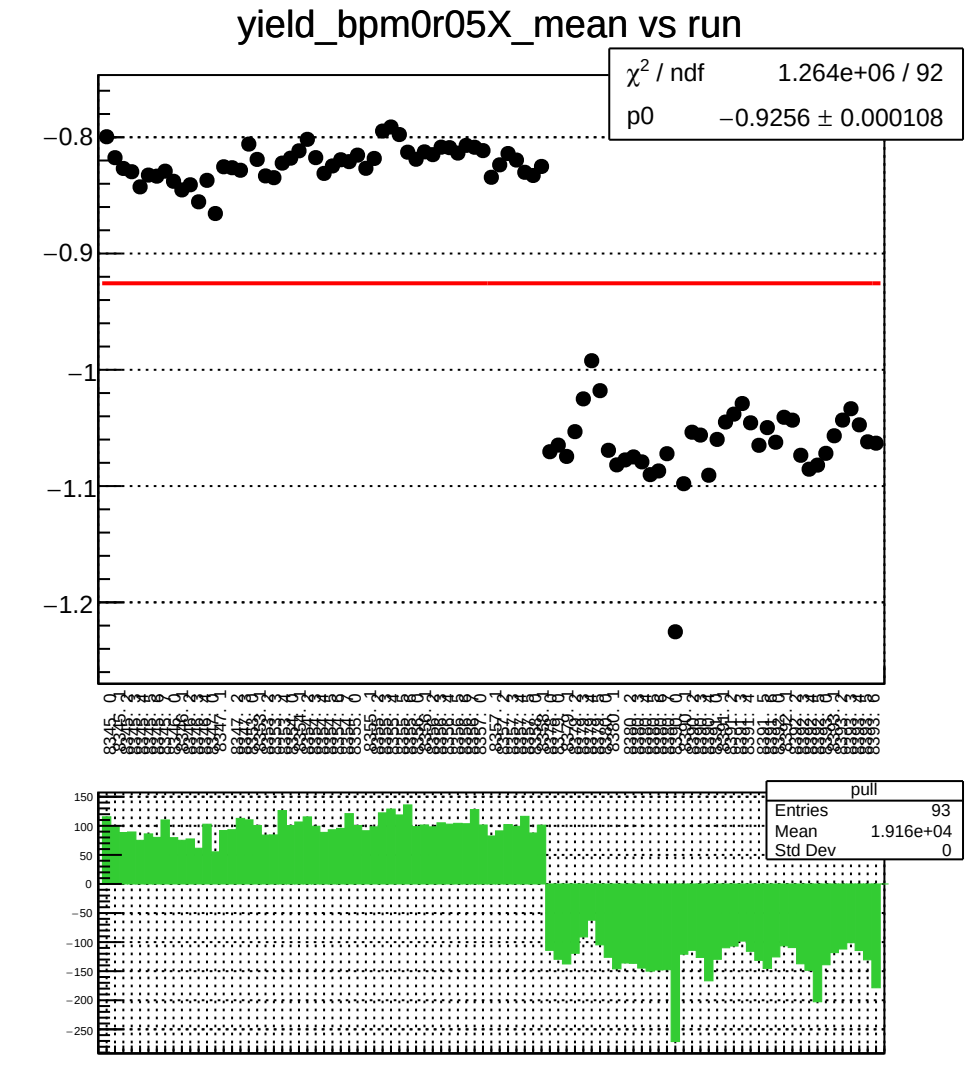

pull1D
Entries 93
Mean 0
Std Dev 0

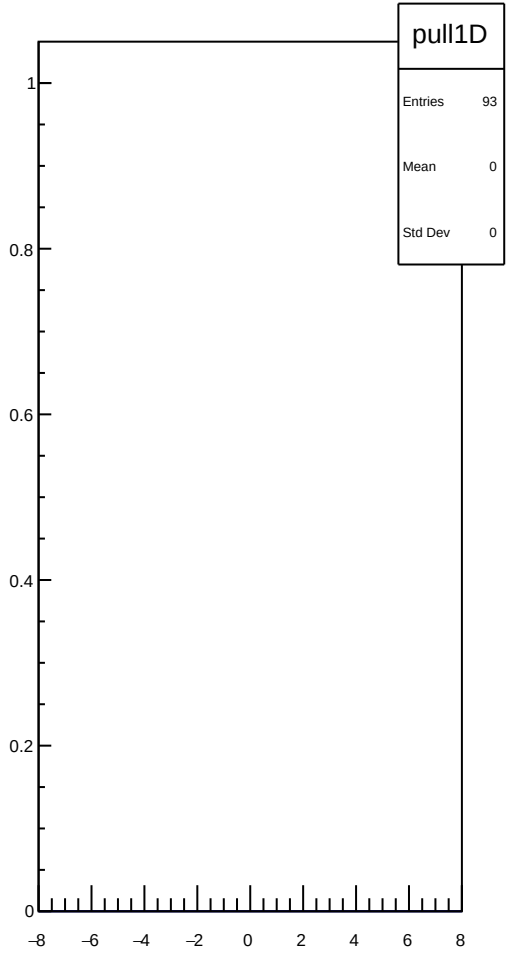

yield_bpm0r03X_rms vs run
χ² / ndf 5658 / 92
p0 0.0873 ± 6.483e−05
0.12
0.115
0.11
0.105
0.1
0.095
0.09
0.085
0.08

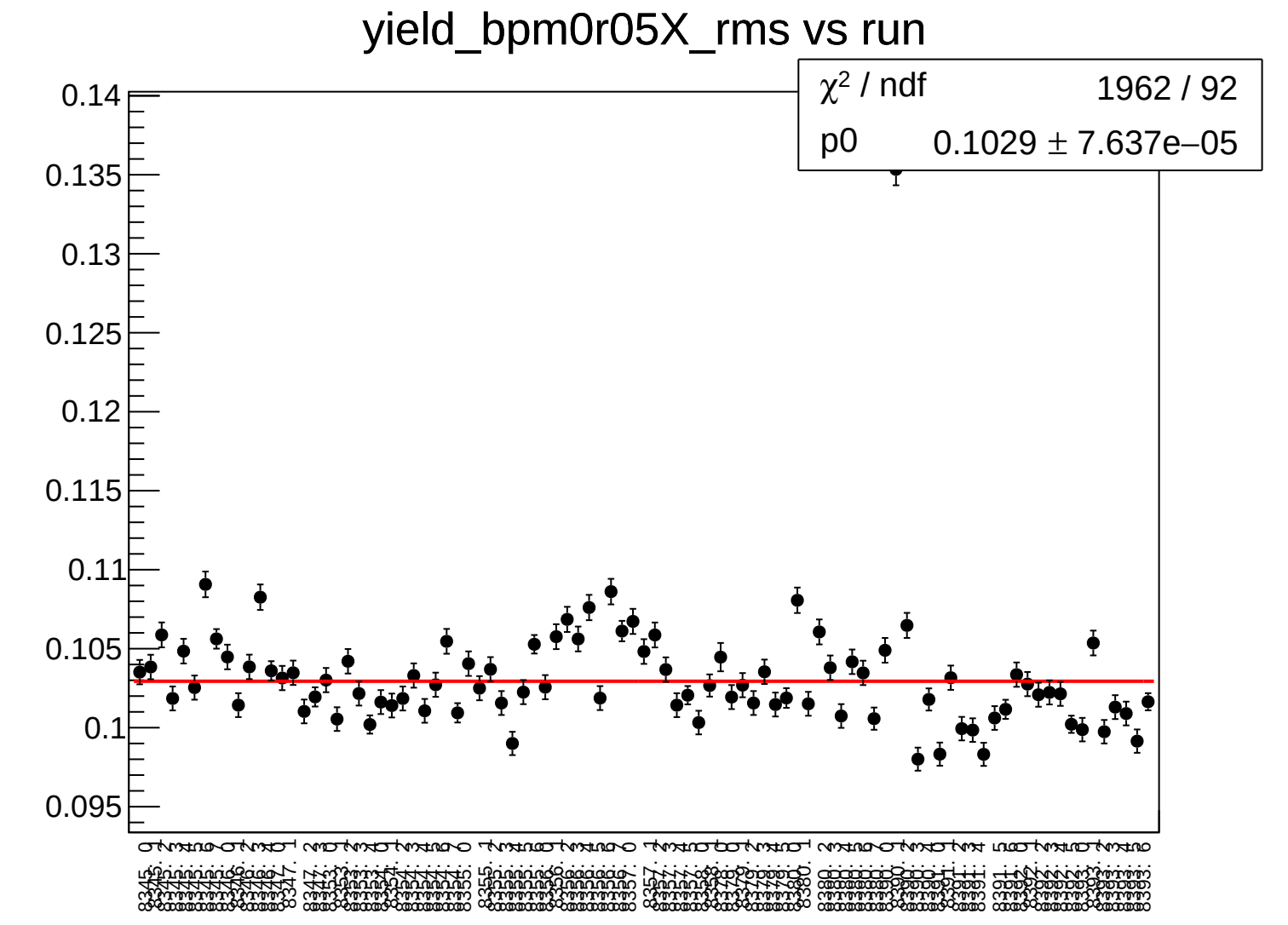

yield_bpm0r03Y_mean vs run
χ² / ndf 3.12e+08 / 92
p0 −0.7303 ± 8.045e−06
−0.55
−0.6
−0.65
−0.7
−0.75
−0.8
−0.85
−0.9
pull
Entries 93
Mean −126
Std Dev 0
3000
2000
1000
0
−1000
−2000
−3000

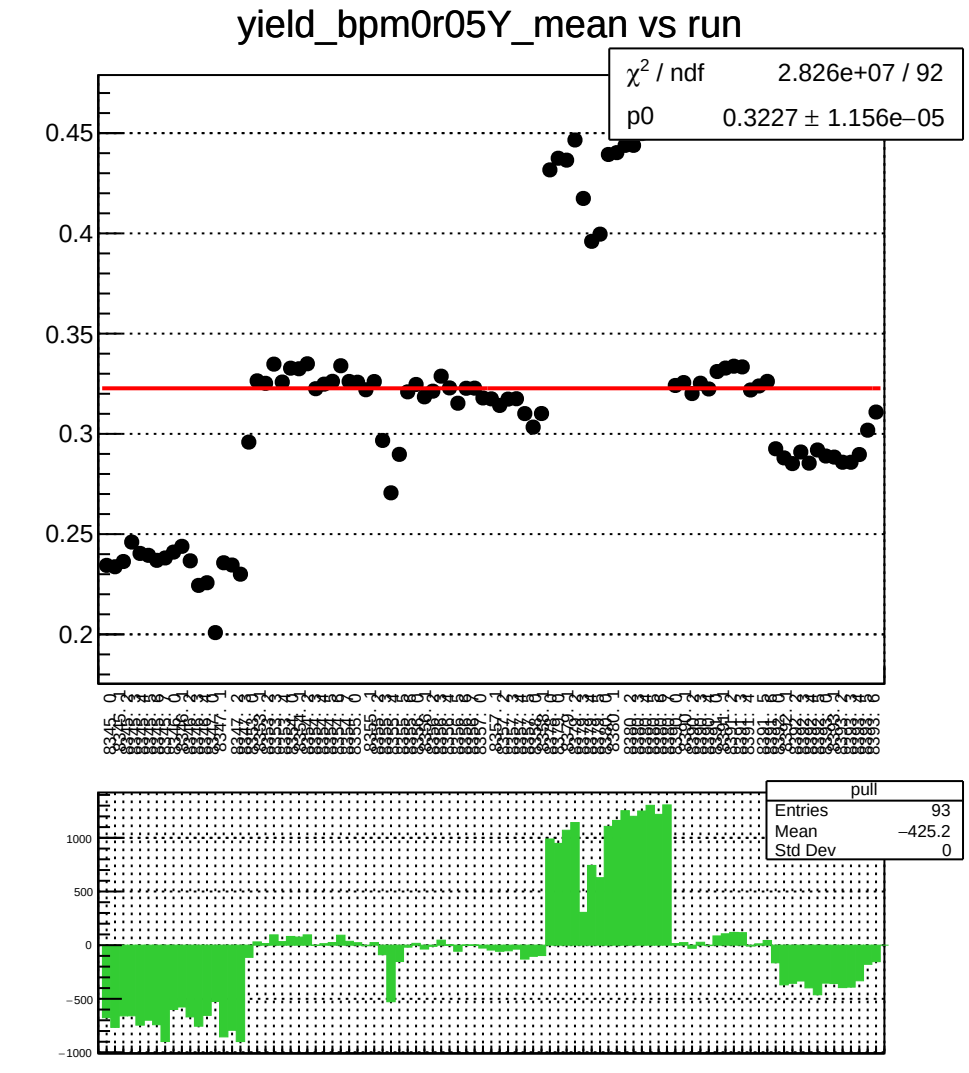

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

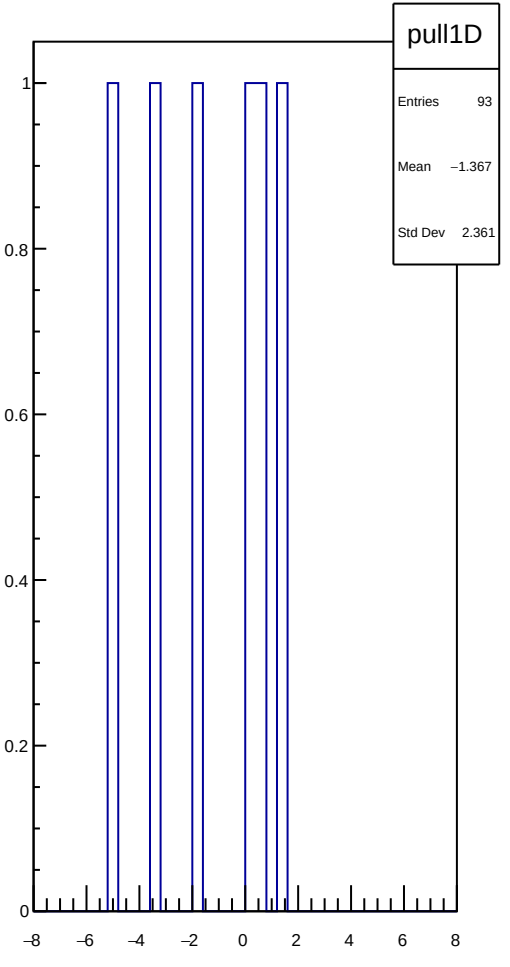

yield_bpm0r03Y_rms vs run
χ² / ndf 8.848e+04 / 92
p0 0.007483 ± 5.689e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

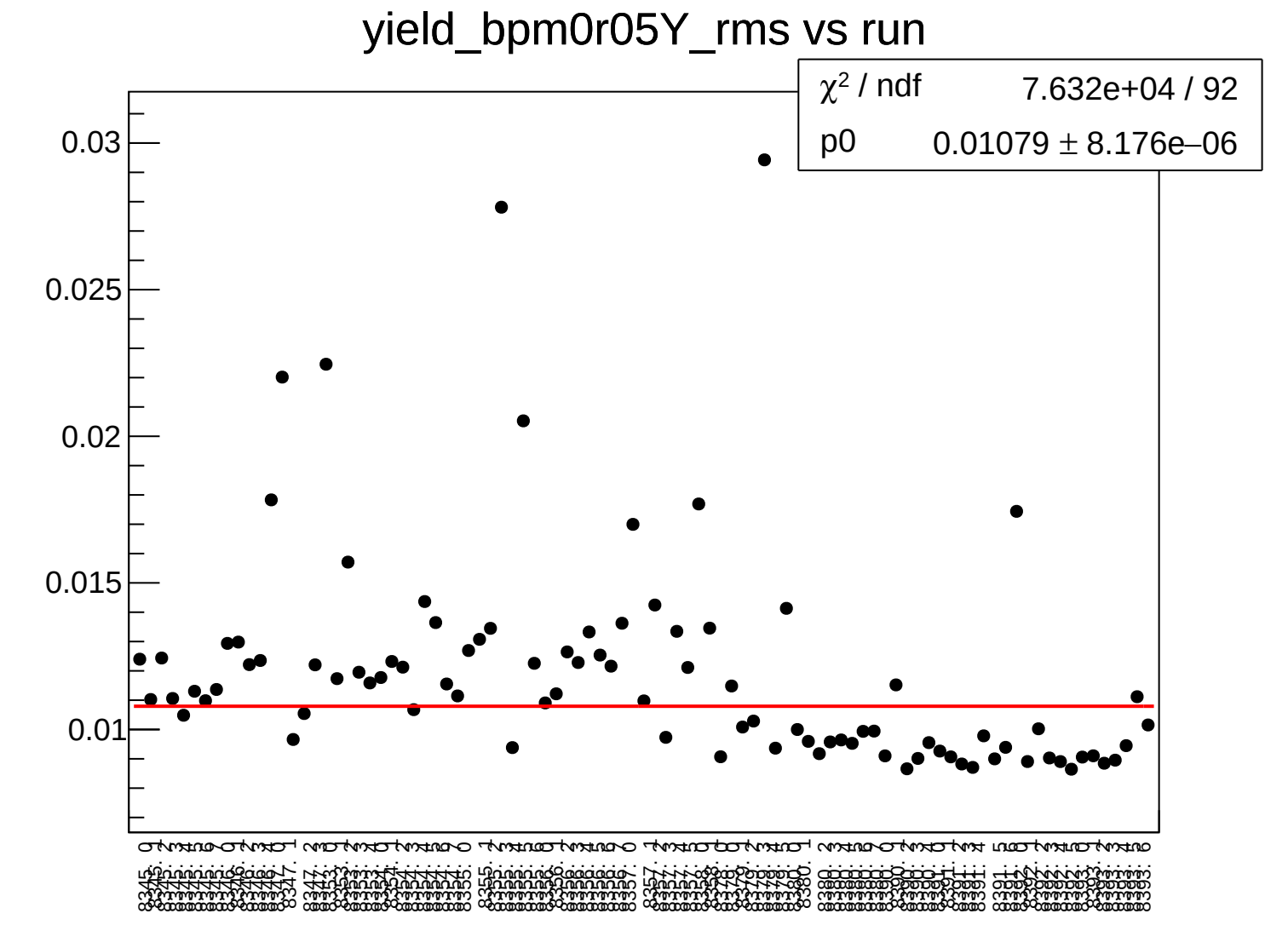

yield_bpm0r05X_mean vs run
χ² / ndf 1.264e+06 / 92
p0 −0.9256 ± 0.000108
−0.8
−0.9
−1
−1.1
−1.2
pull
Entries 93
Mean 1.916e+04
Std Dev 0
150
100
50
0
−50
−100
−150
−200
−250

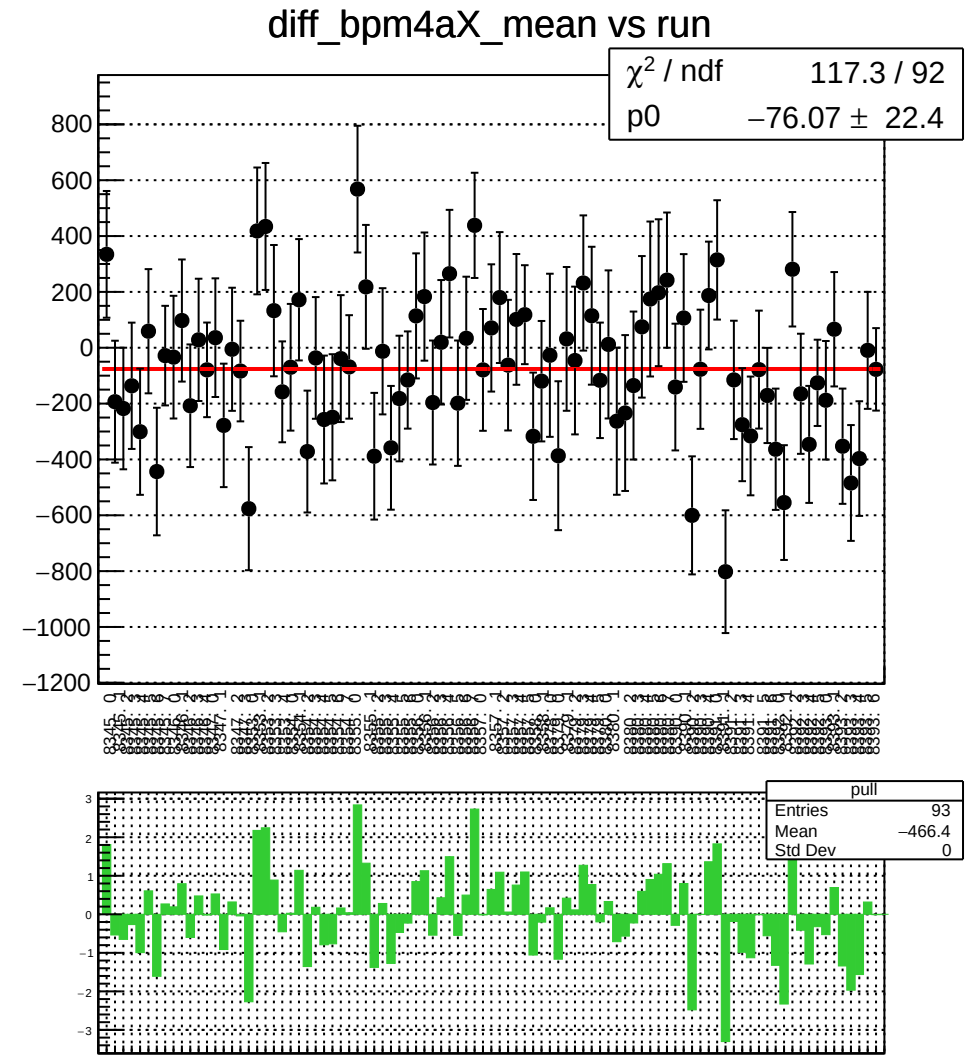

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

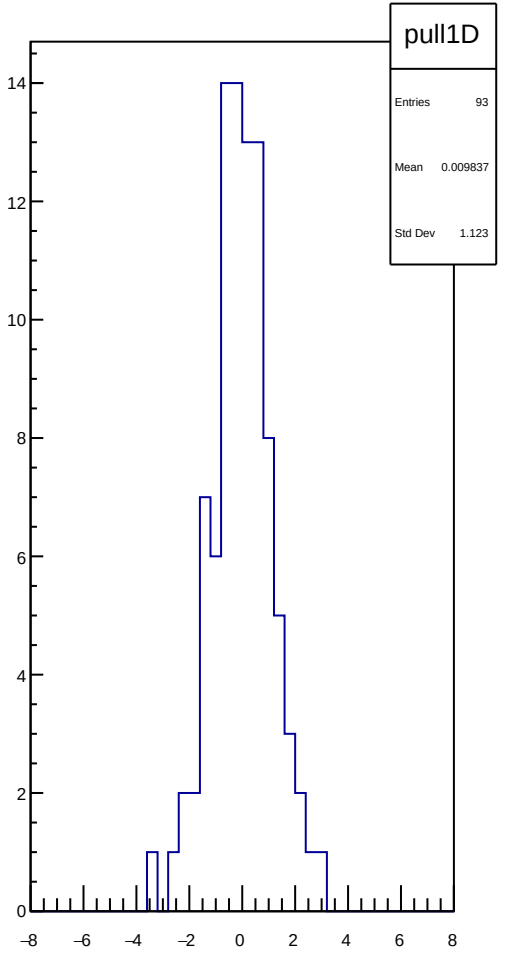

yield_bpm0r05X_rms vs run
χ² / ndf 1962 / 92
p0 0.1029 ± 7.637e–05
0.14
0.135
0.13
0.125
0.12
0.115
0.11
0.105
0.1
0.095

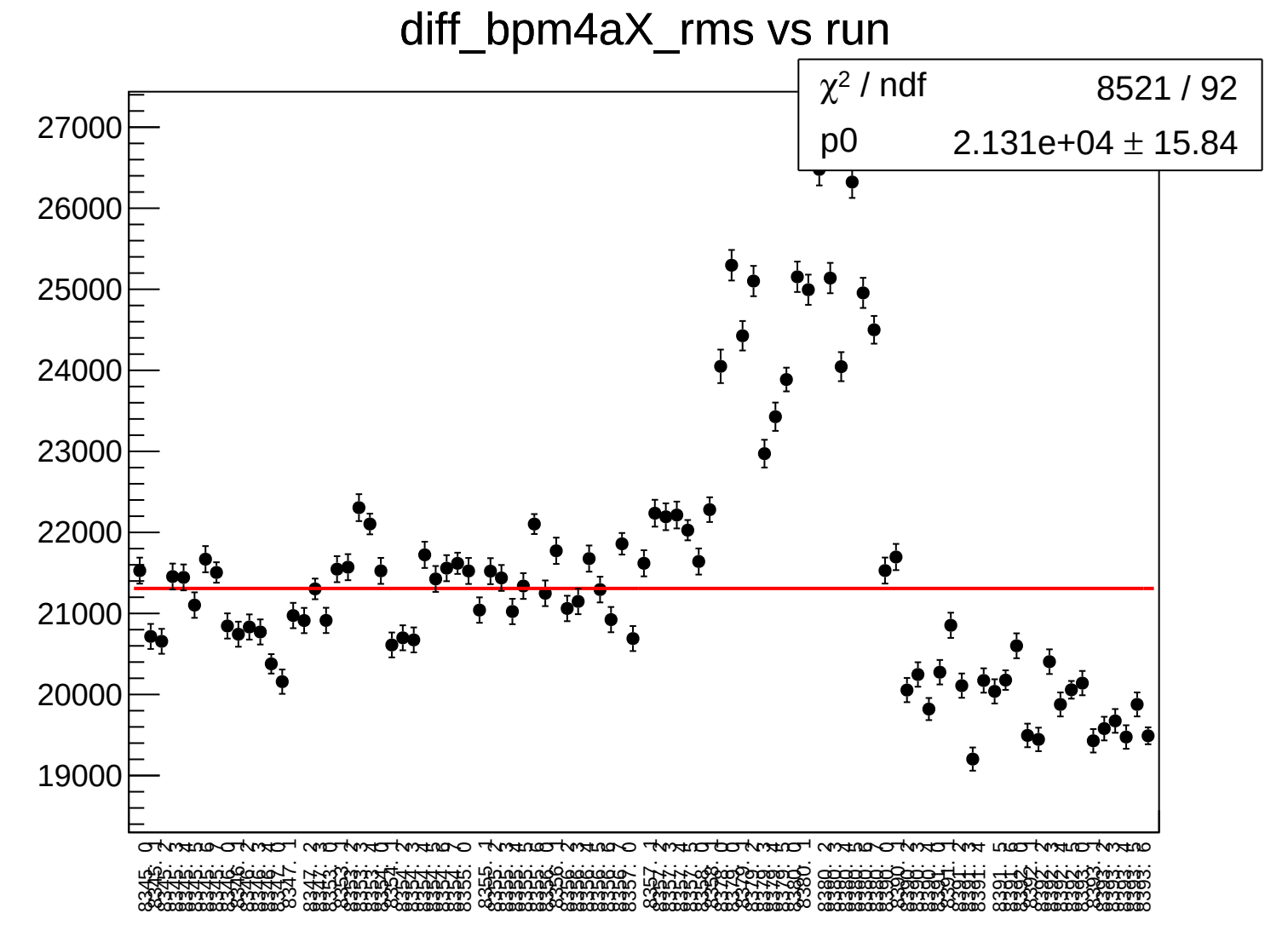

yield_bpm0r05Y_mean vs run
χ² / ndf 2.826e+07 / 92
p0 0.3227 ± 1.156e−05
0.45
0.4
0.35
0.3
0.25
0.2
pull
Entries 93
Mean −425.2
Std Dev 0
1000
500
0
−500
−1000

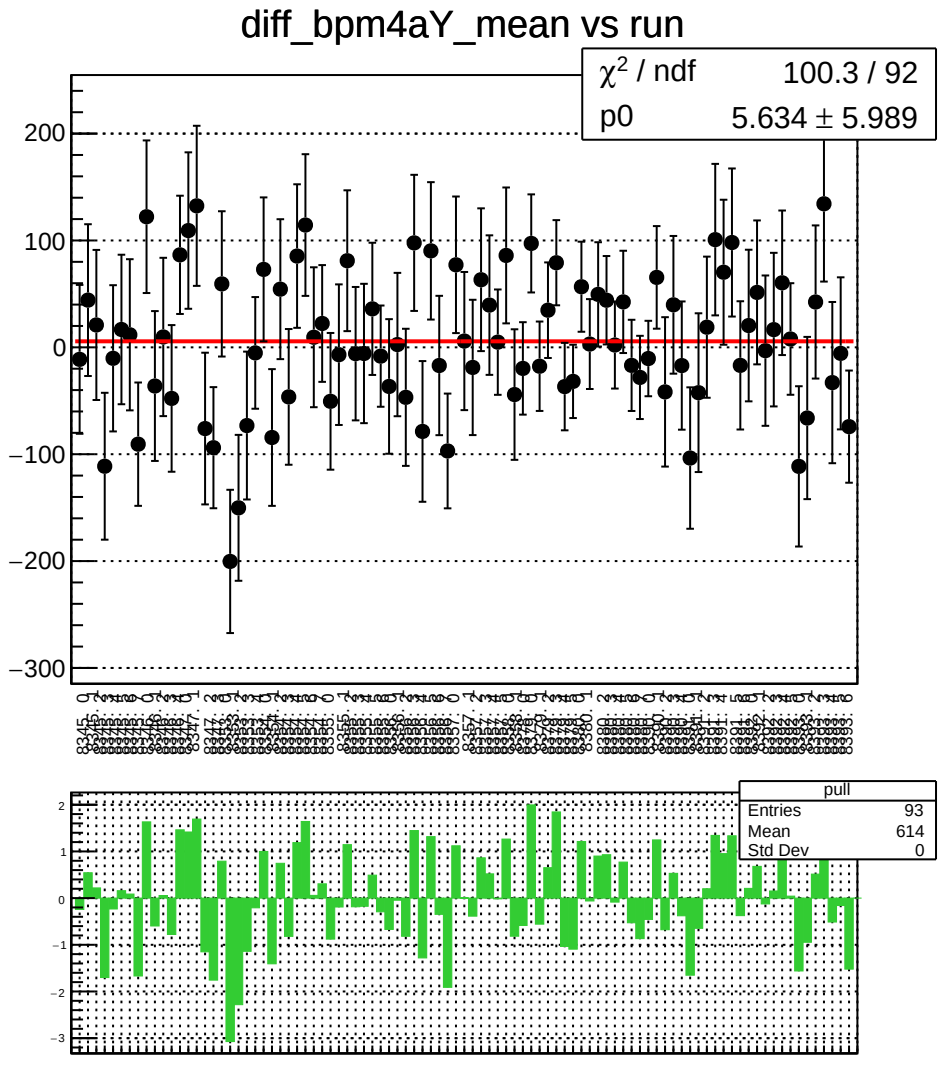

pull1D
Entries 93
Mean −1.367
Std Dev 2.361
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

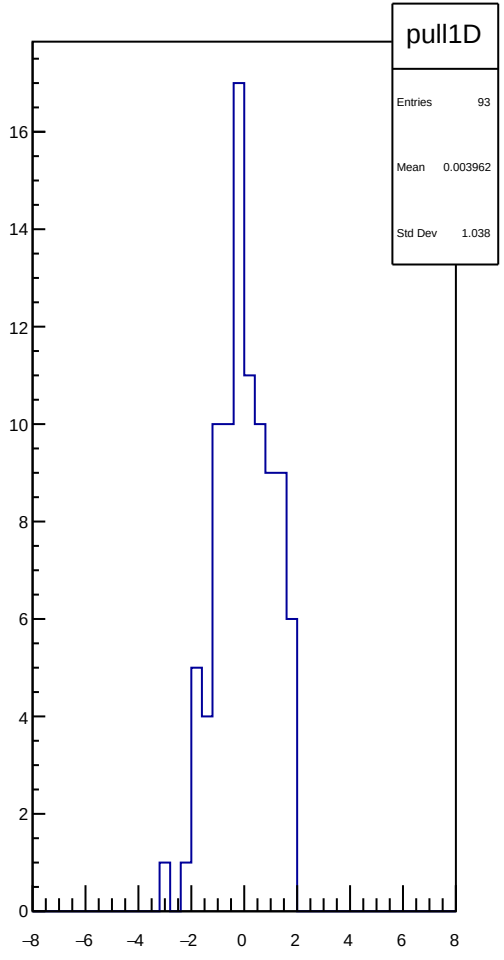

yield_bpm0r05Y_rms vs run
χ² / ndf 7.632e+04 / 92
p0 0.01079 ± 8.176e–06
0.03
0.025
0.02
0.015
0.01

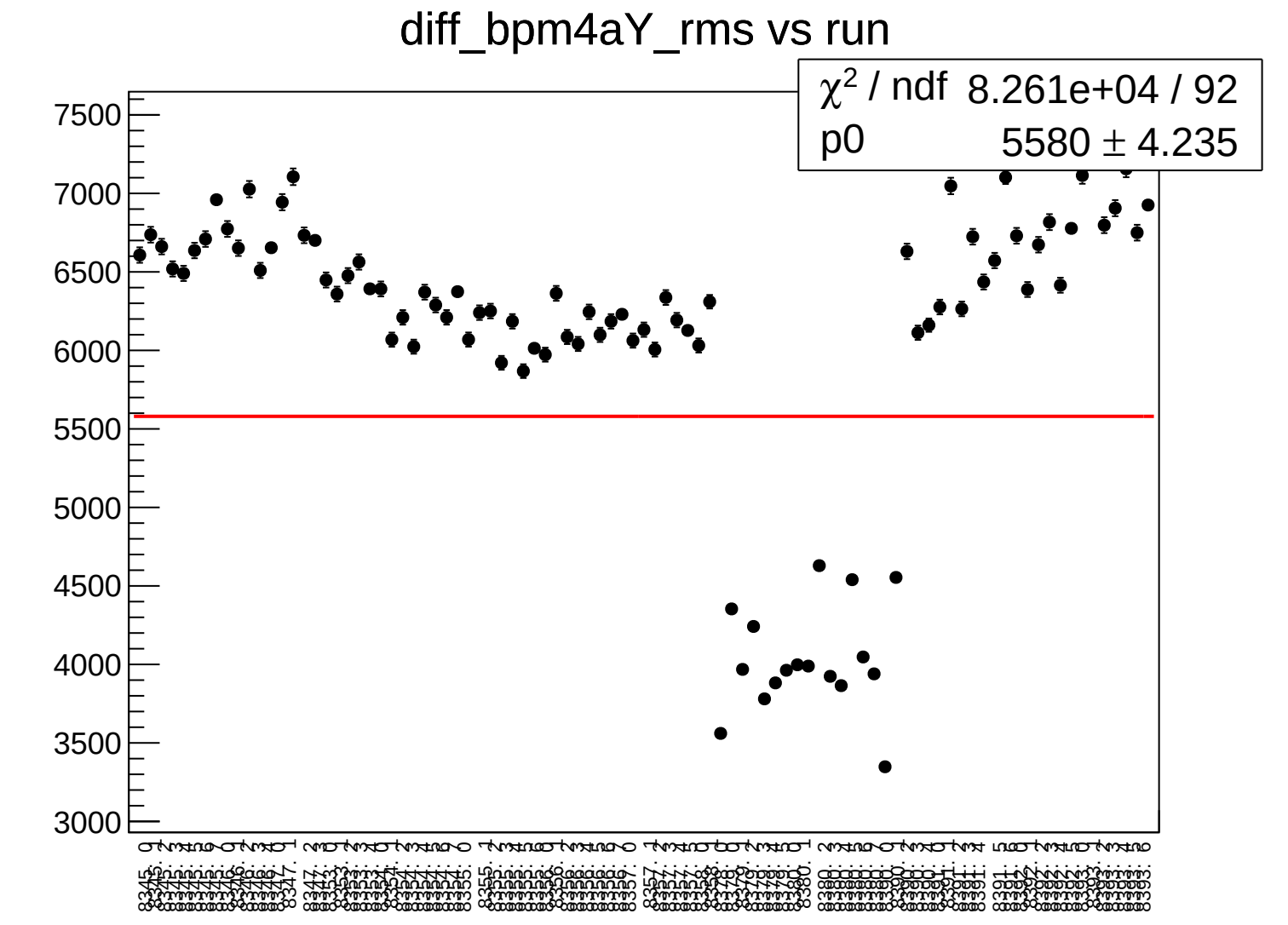

diff_bpm4aX_mean vs run
χ² / ndf 117.3 / 92
p0 −76.07 ± 22.4
pull
Entries 93
Mean −466.4
Std Dev 0

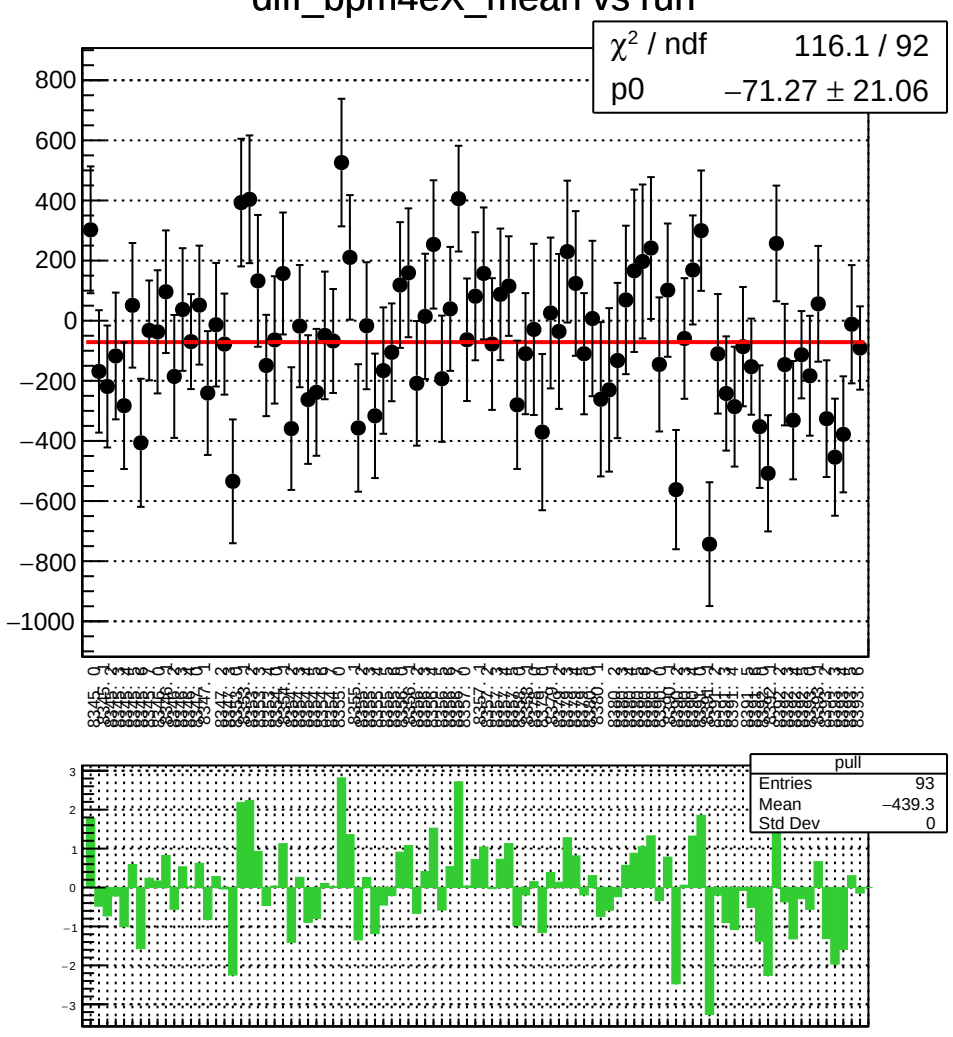

pull1D
Entries 93
Mean 0.009837
Std Dev 1.123

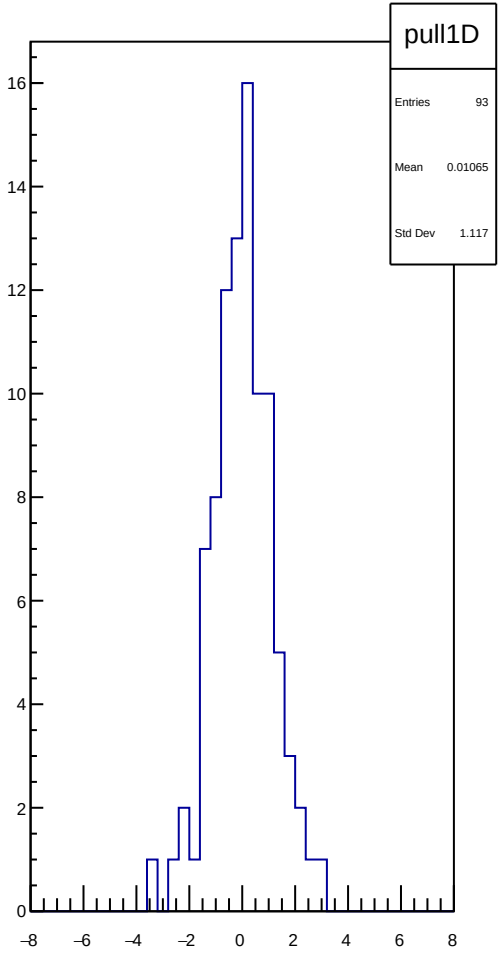

diff_bpm4aX_rms vs run
χ² / ndf 8521 / 92
p0 2.131e+04 ± 15.84
27000
26000
25000
24000
23000
22000
21000
20000
19000

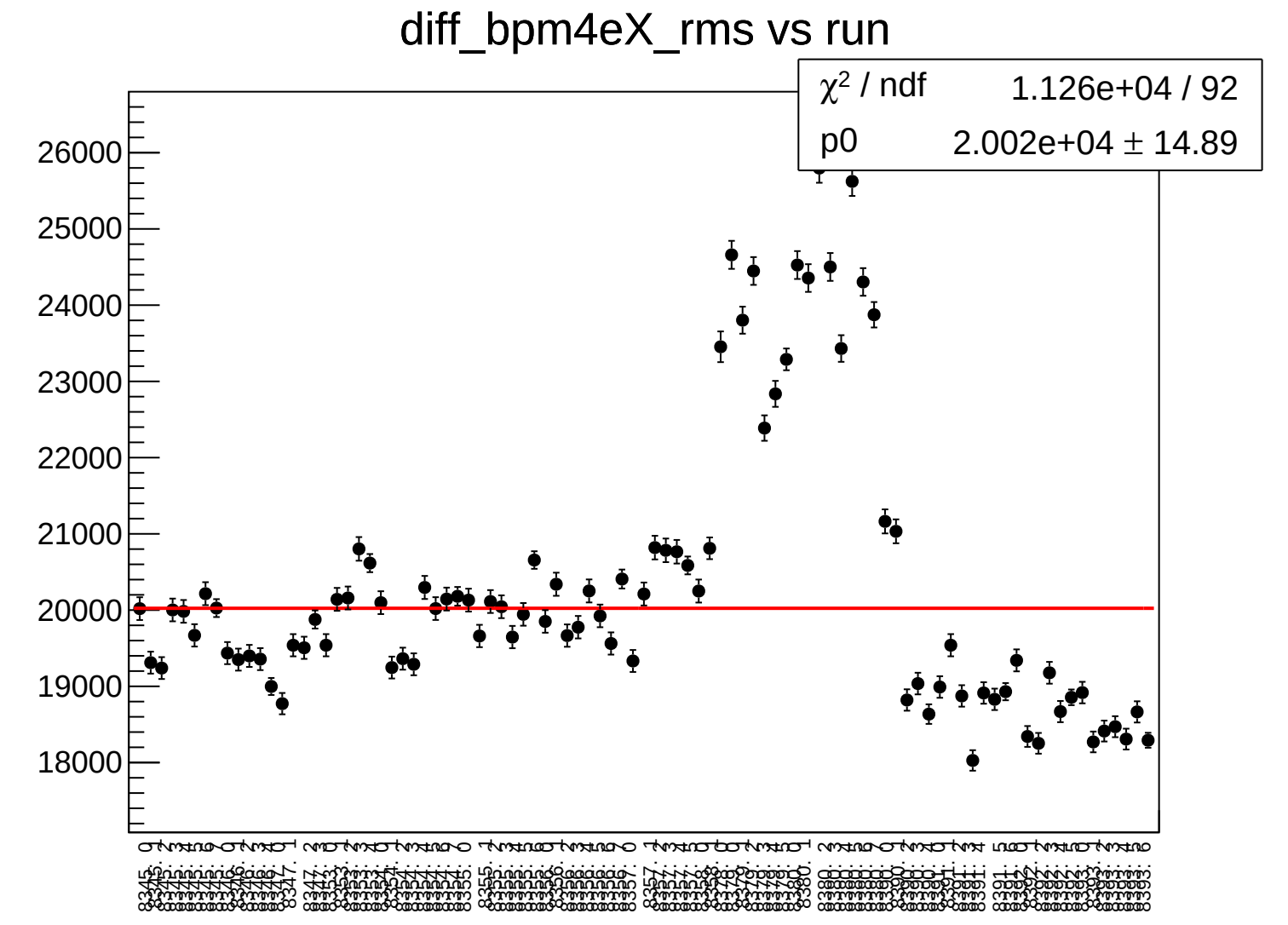

diff_bpm4aY_mean vs run
χ² / ndf 100.3 / 92
p0 5.634 ± 5.989
200
100
0
−100
−200
−300
pull
Entries 93
Mean 614
Std Dev 0
2
1
0
−1
−2
−3

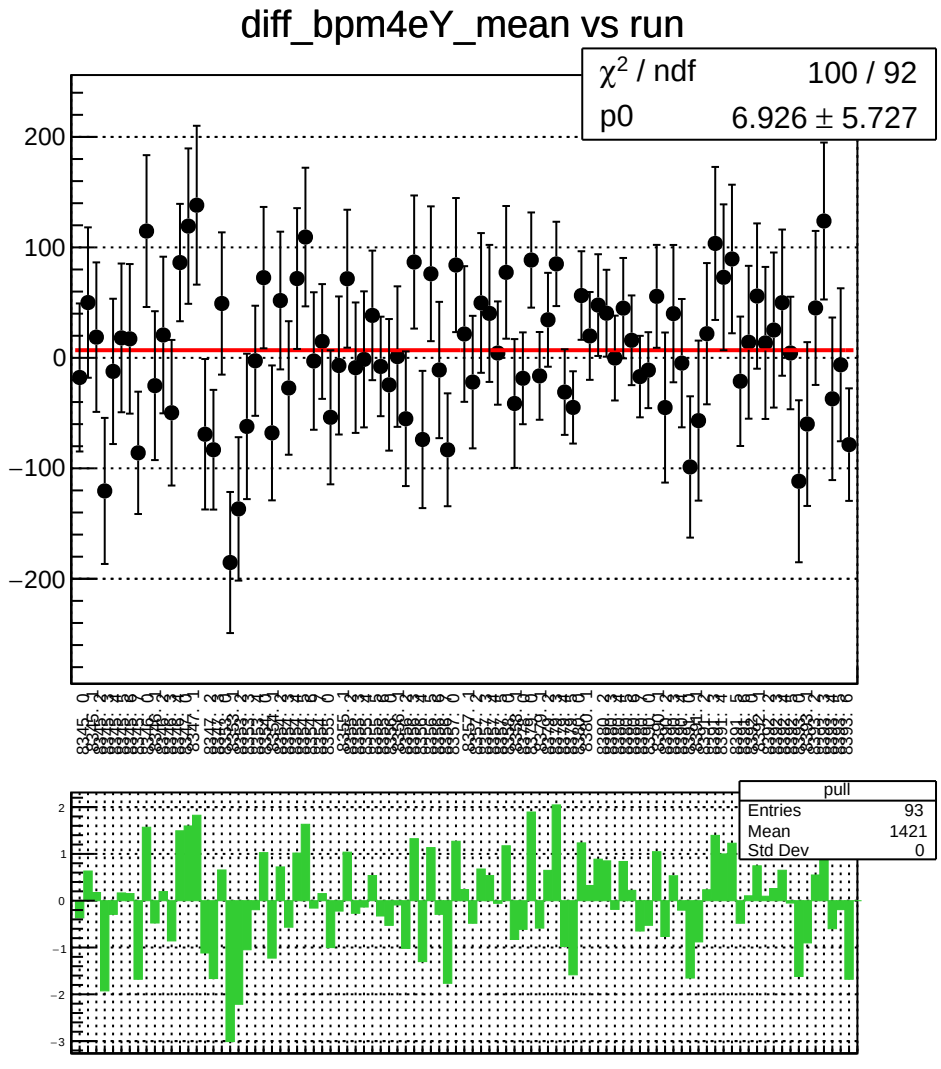

pull1D
Entries 93
Mean 0.003962
Std Dev 1.038
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

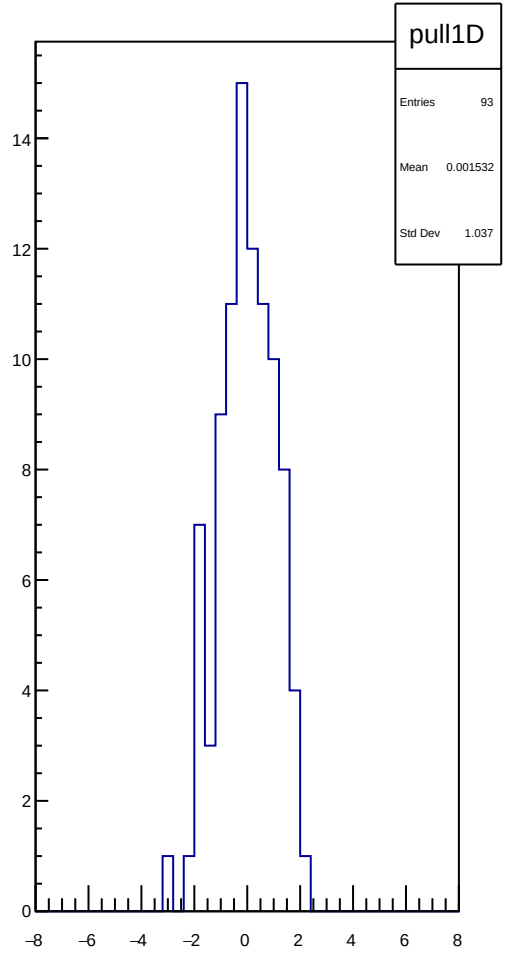

diff_bpm4aY_rms vs run
χ² / ndf 8.261e+04 / 92
p0 5580 ± 4.235
7500
7000
6500
6000
5500
5000
4500
4000
3500
3000

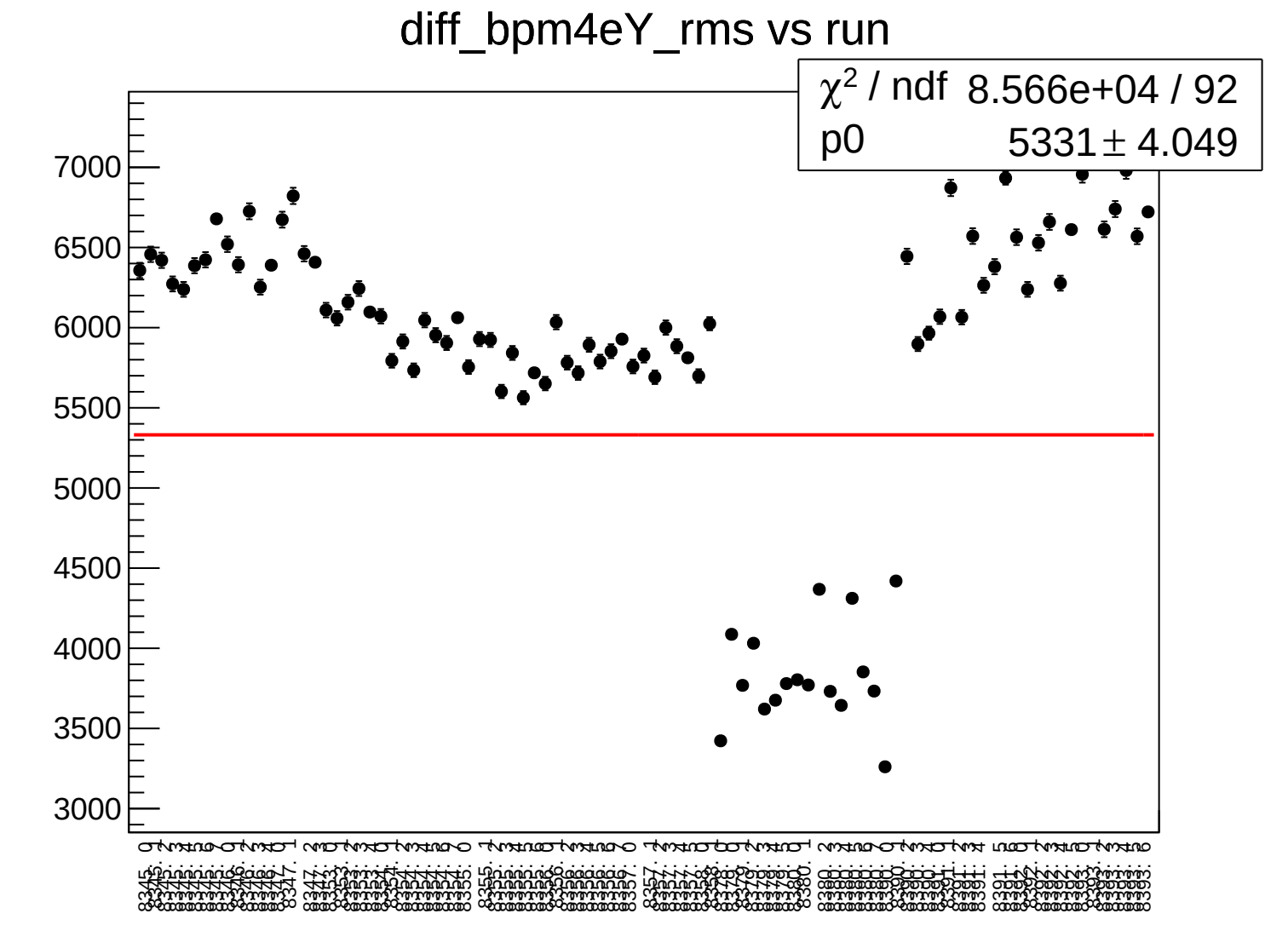

diff_bpm4eX_mean vs run
χ² / ndf 116.1 / 92
p0 −71.27 ± 21.06
pull
Entries 93
Mean −439.3
Std Dev 0

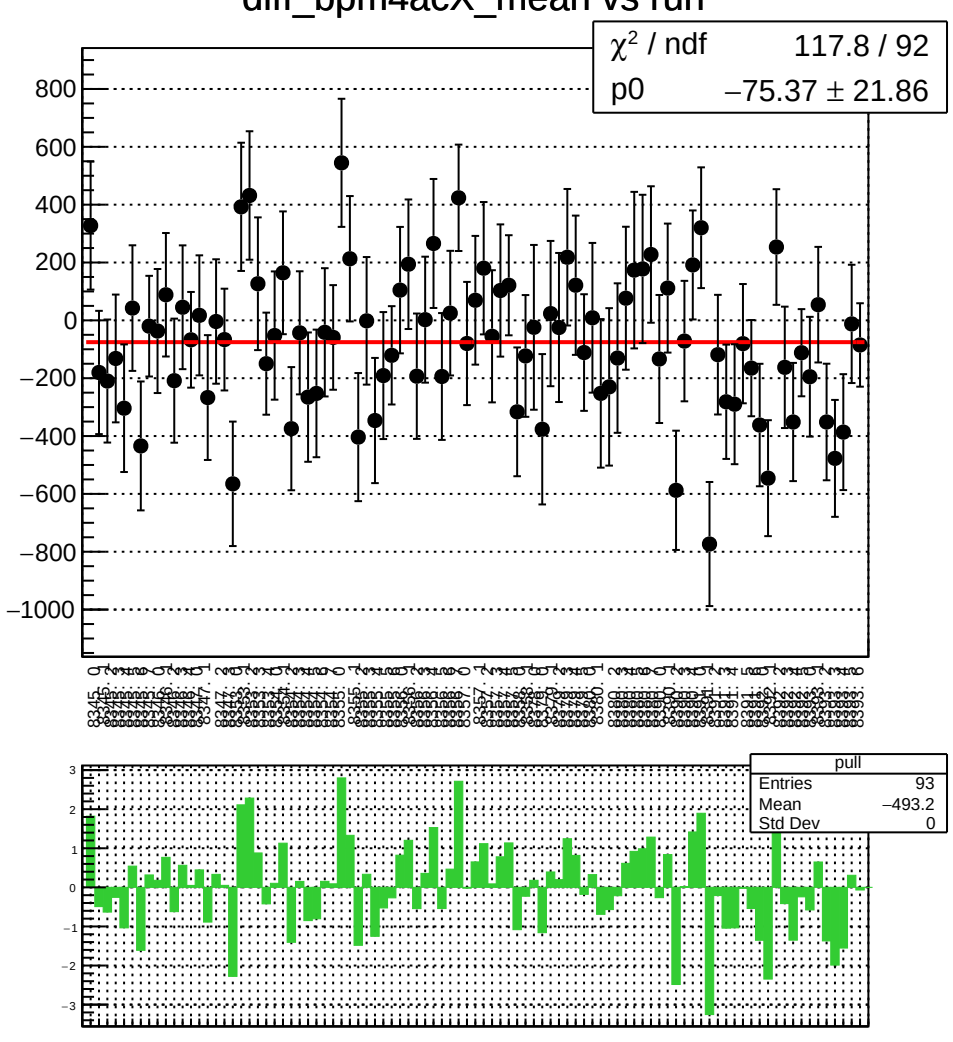

pull1D
Entries 93
Mean 0.01065
Std Dev 1.117

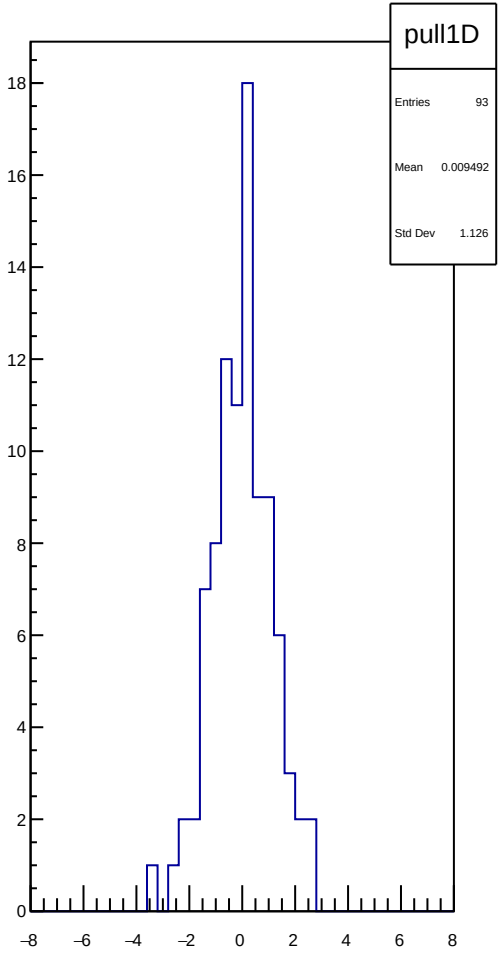

diff_bpm4eX_rms vs run
χ² / ndf 1.126e+04 / 92
p0 2.002e+04 ± 14.89
26000
25000
24000
23000
22000
21000
20000
19000
18000

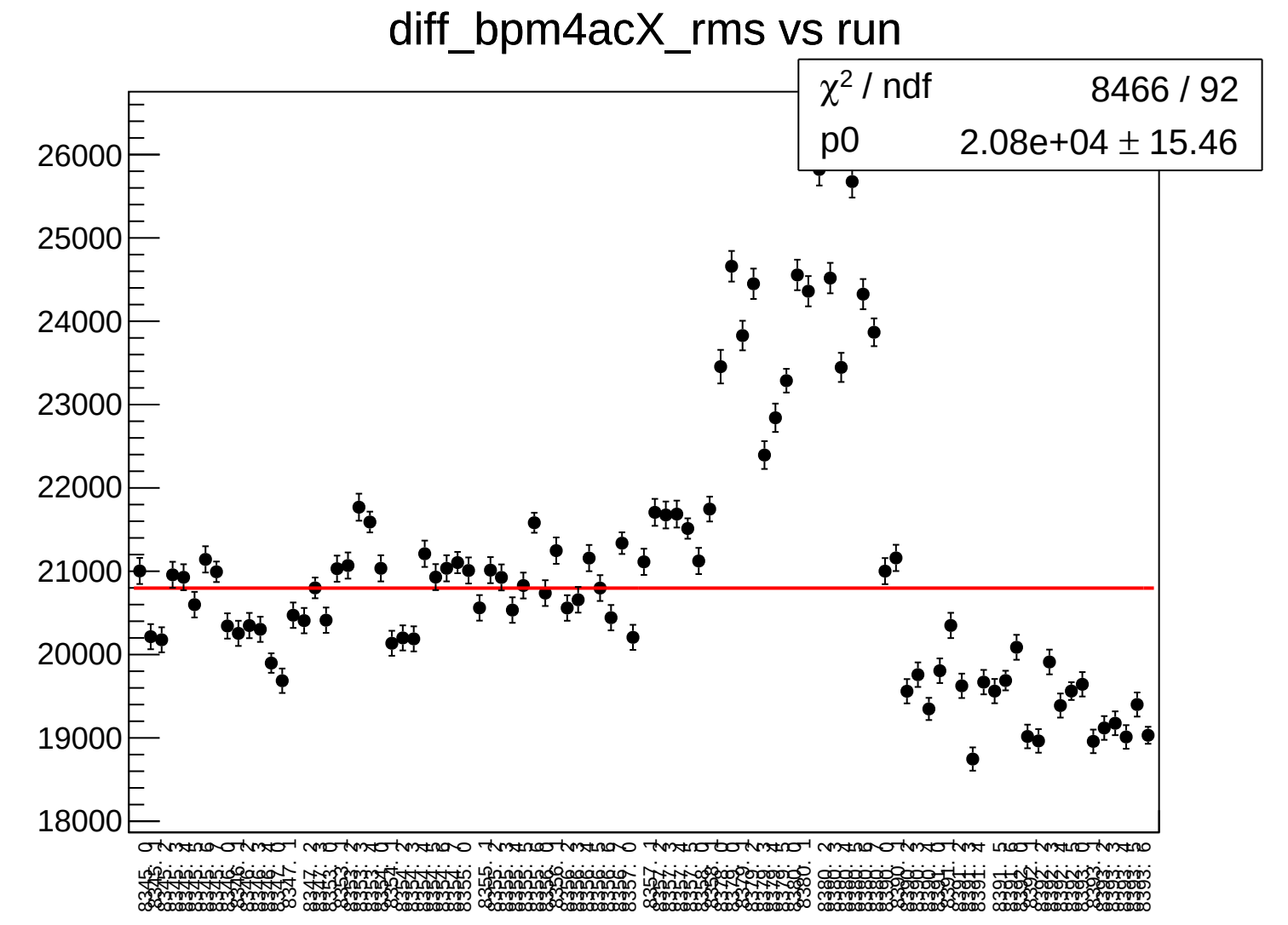

diff_bpm4eY_mean vs run
χ² / ndf 100 / 92
p0 6.926 ± 5.727
200
100
0
−100
−200
pull
Entries 93
Mean 1421
Std Dev 0
2
1
0
−1
−2
−3

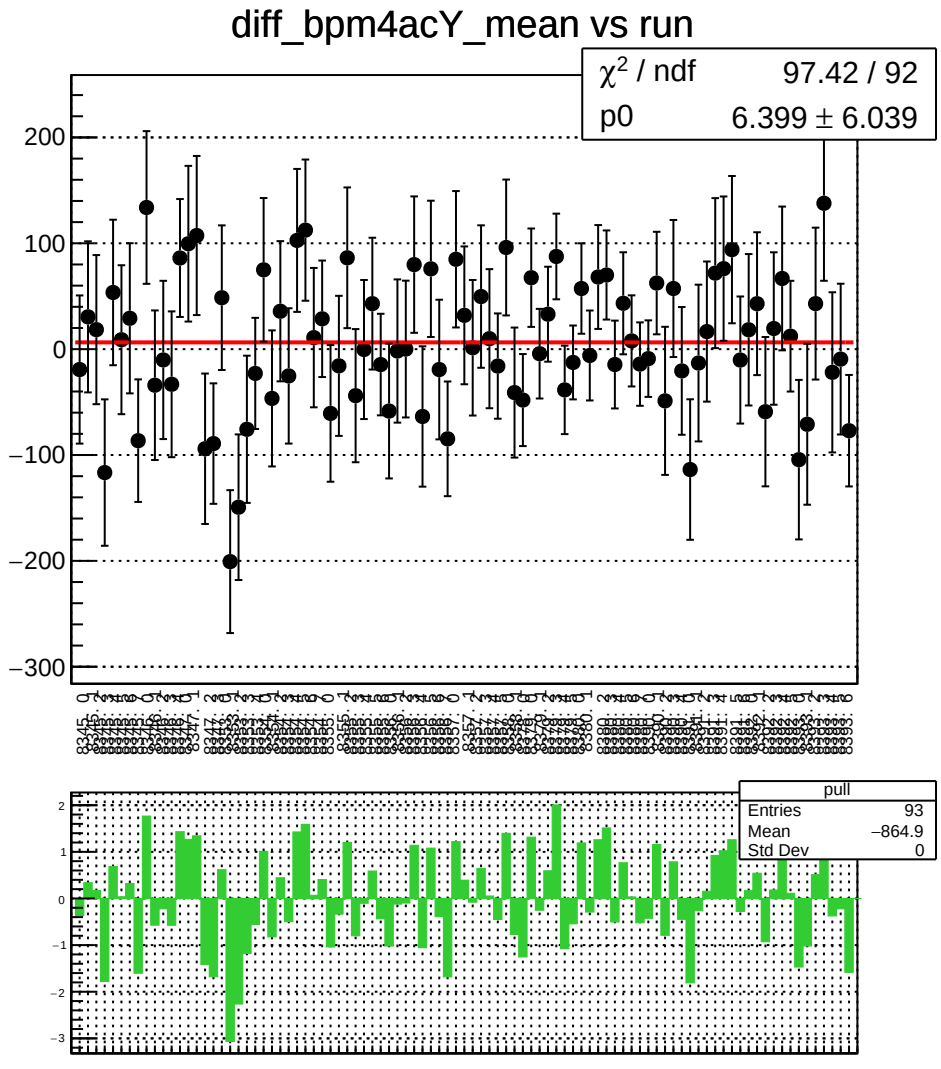

pull1D
Entries 93
Mean 0.001532
Std Dev 1.037
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

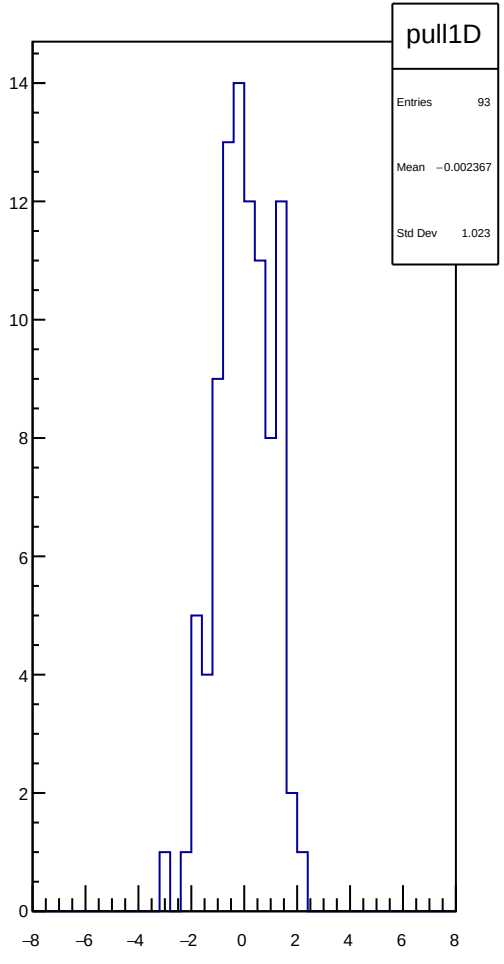

diff_bpm4eY_rms vs run
χ² / ndf 8.566e+04 / 92
p0 5331 ± 4.049
7000
6500
6000
5500
5000
4500
4000
3500
3000

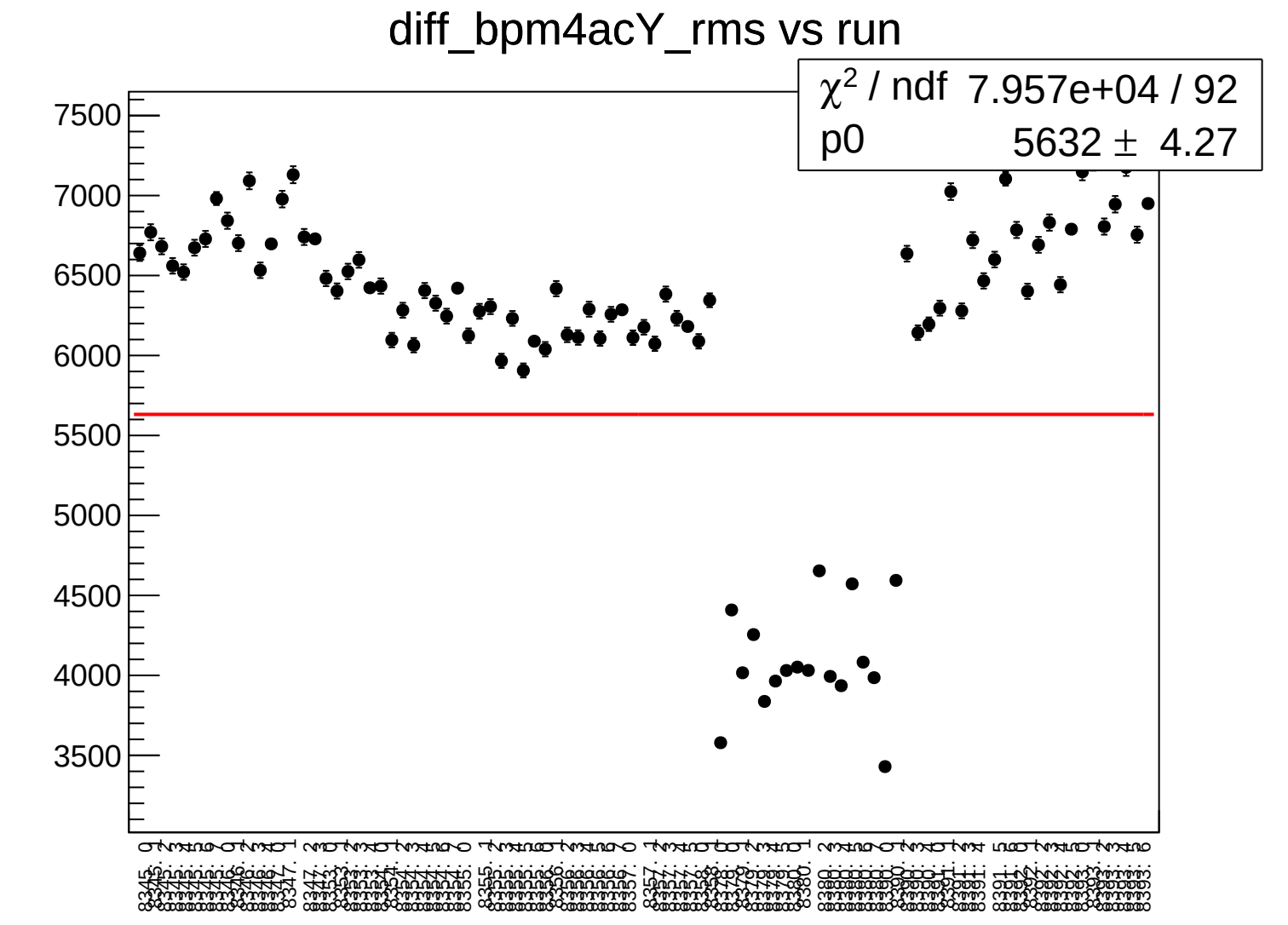

diff_bpm4acX_mean vs run
χ² / ndf 117.8 / 92
p0 −75.37 ± 21.86
pull
Entries 93
Mean −493.2
Std Dev 0

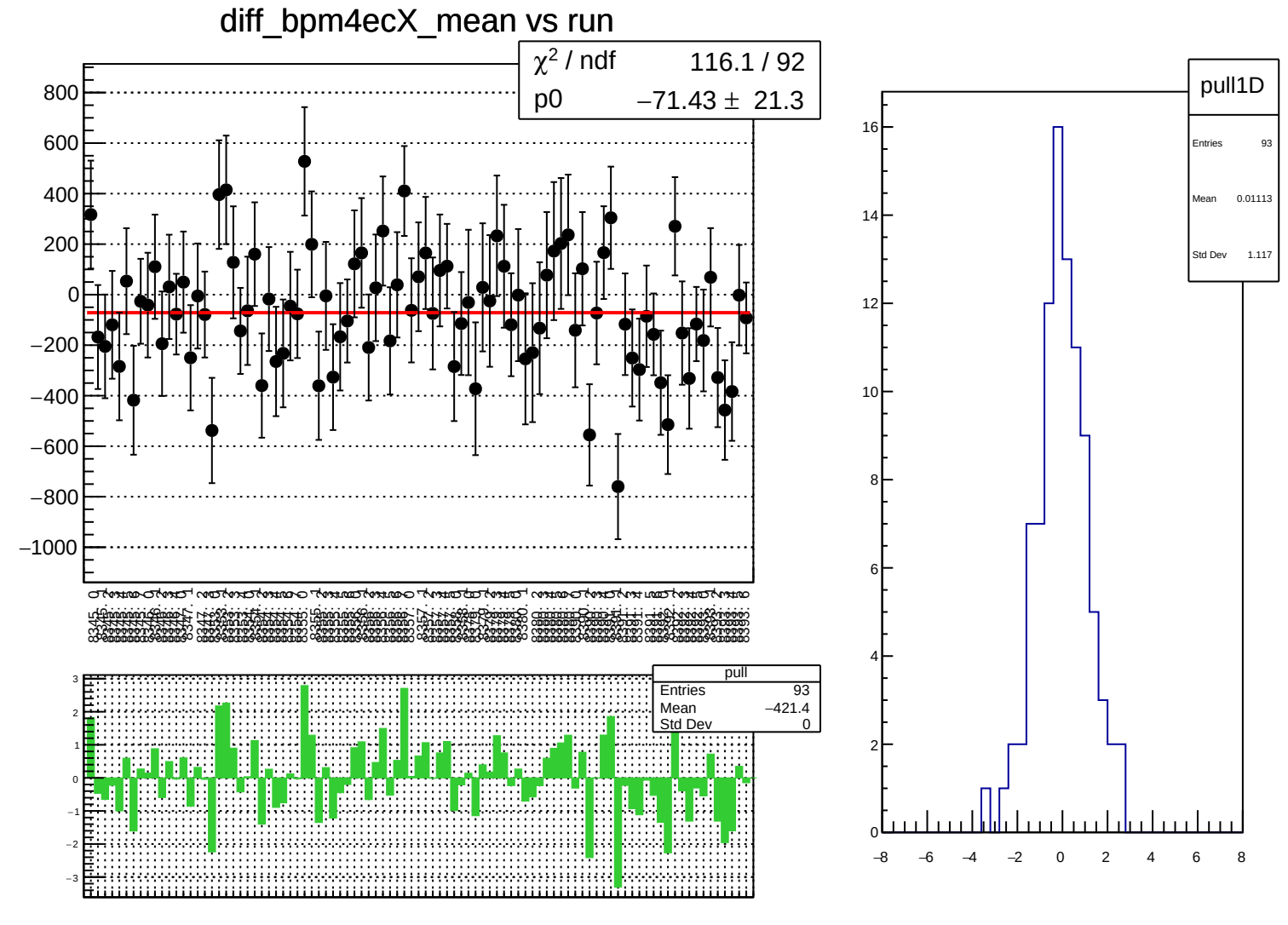

pull1D
Entries 93
Mean 0.009492
Std Dev 1.126

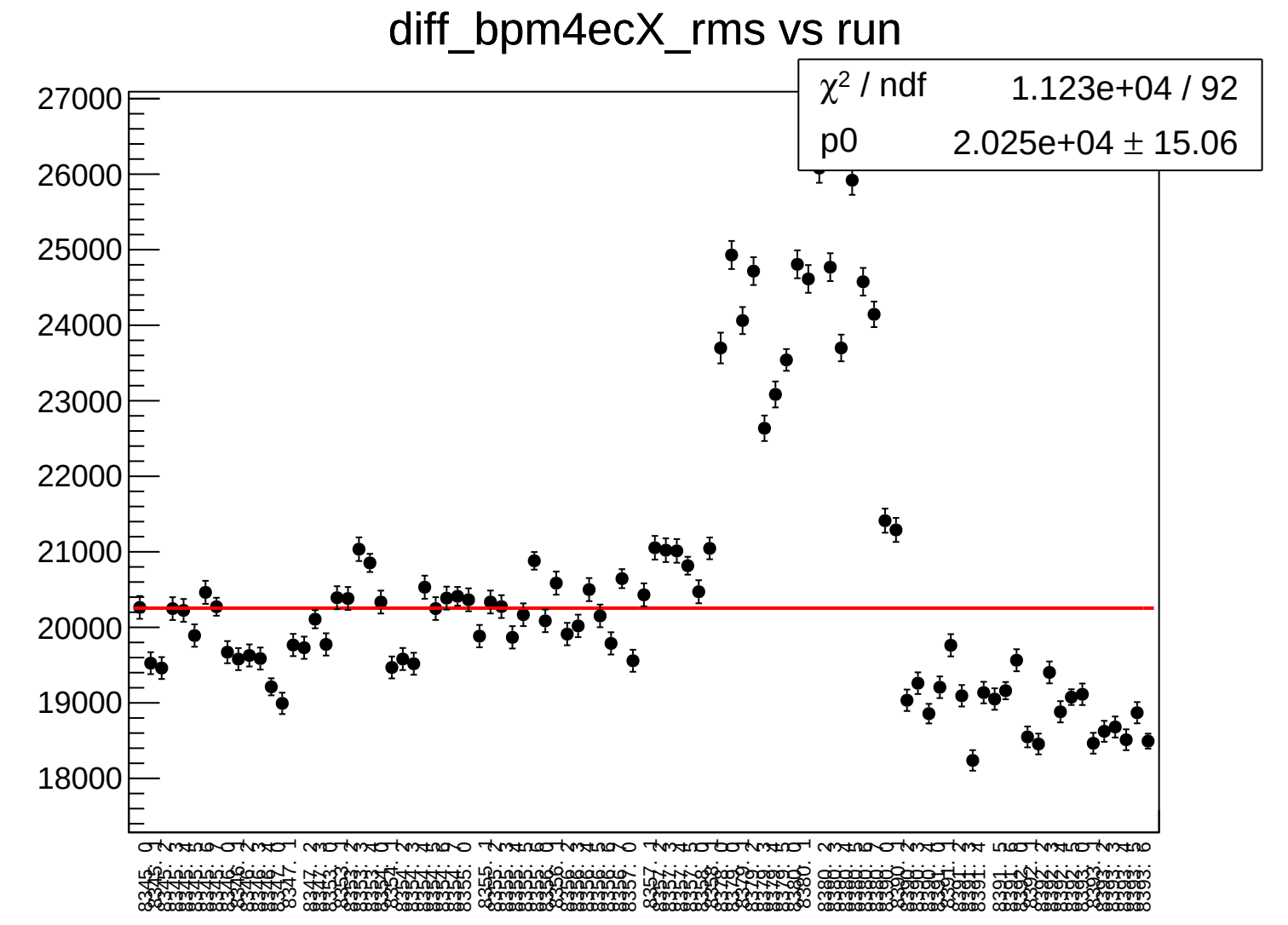

diff_bpm4acX_rms vs run
χ² / ndf 8466 / 92
p0 2.08e+04 ± 15.46
26000
25000
24000
23000
22000
21000
20000
19000
18000

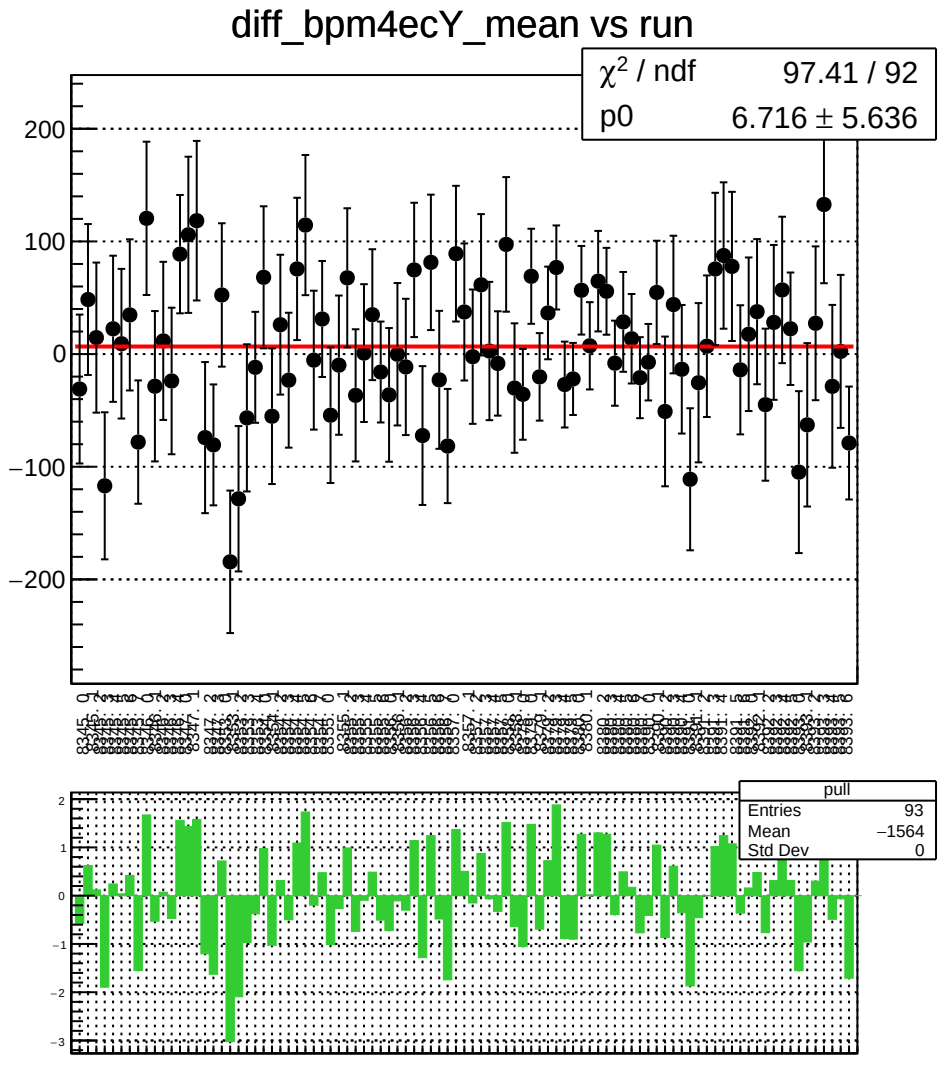

diff_bpm4acY_mean vs run
χ² / ndf 97.42 / 92
p0 6.399 ± 6.039
200
100
0
−100
−200
−300
pull
Entries 93
Mean −864.9
Std Dev 0
2
1
0
−1
−2
−3

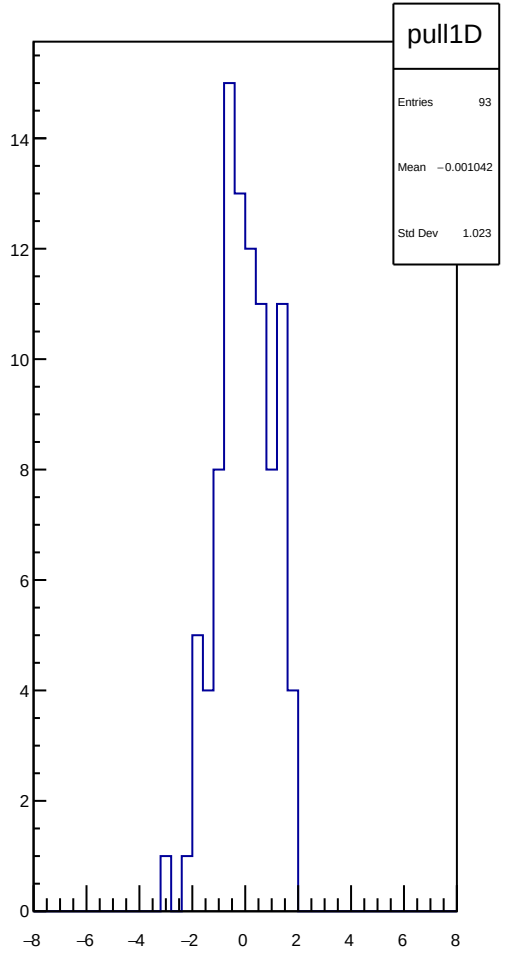

pull1D
Entries 93
Mean −0.002367
Std Dev 1.023
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

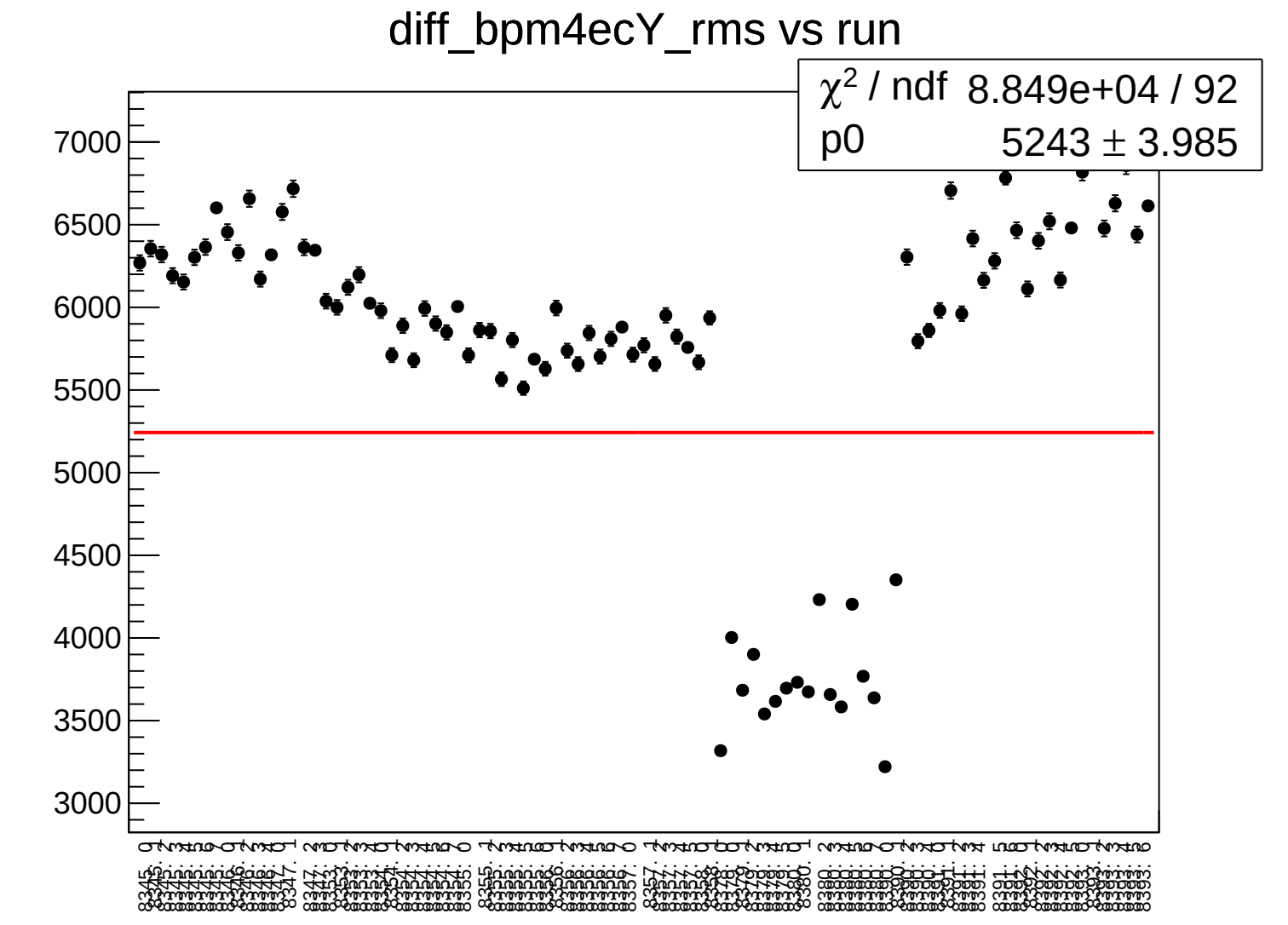

diff_bpm4acY_rms vs run
χ² / ndf 7.957e+04 / 92
p0 5632 ± 4.27
7500
7000
6500
6000
5500
5000
4500
4000
3500

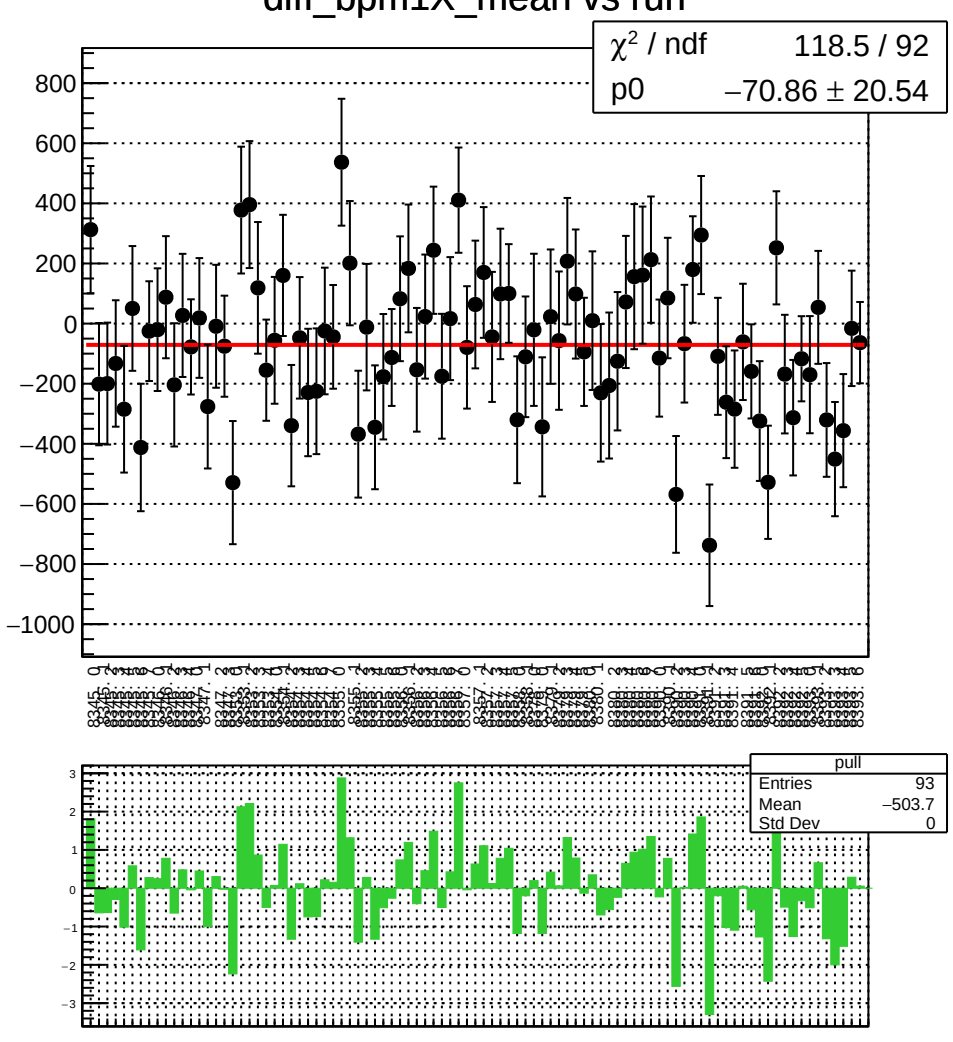

diff_bpm4ecX_mean vs run
χ² / ndf 116.1 / 92
p0 −71.43 ± 21.3
pull
Entries 93
Mean −421.4
Std Dev 0
pull1D
Entries 93
Mean 0.01113
Std Dev 1.117

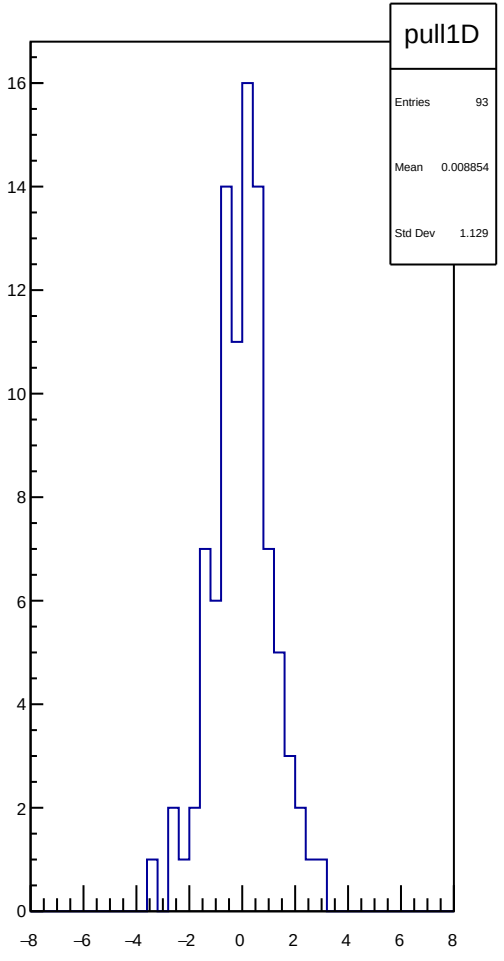

diff_bpm4ecX_rms vs run
χ² / ndf 1.123e+04 / 92
p0 2.025e+04 ± 15.06
27000
26000
25000
24000
23000
22000
21000
20000
19000
18000

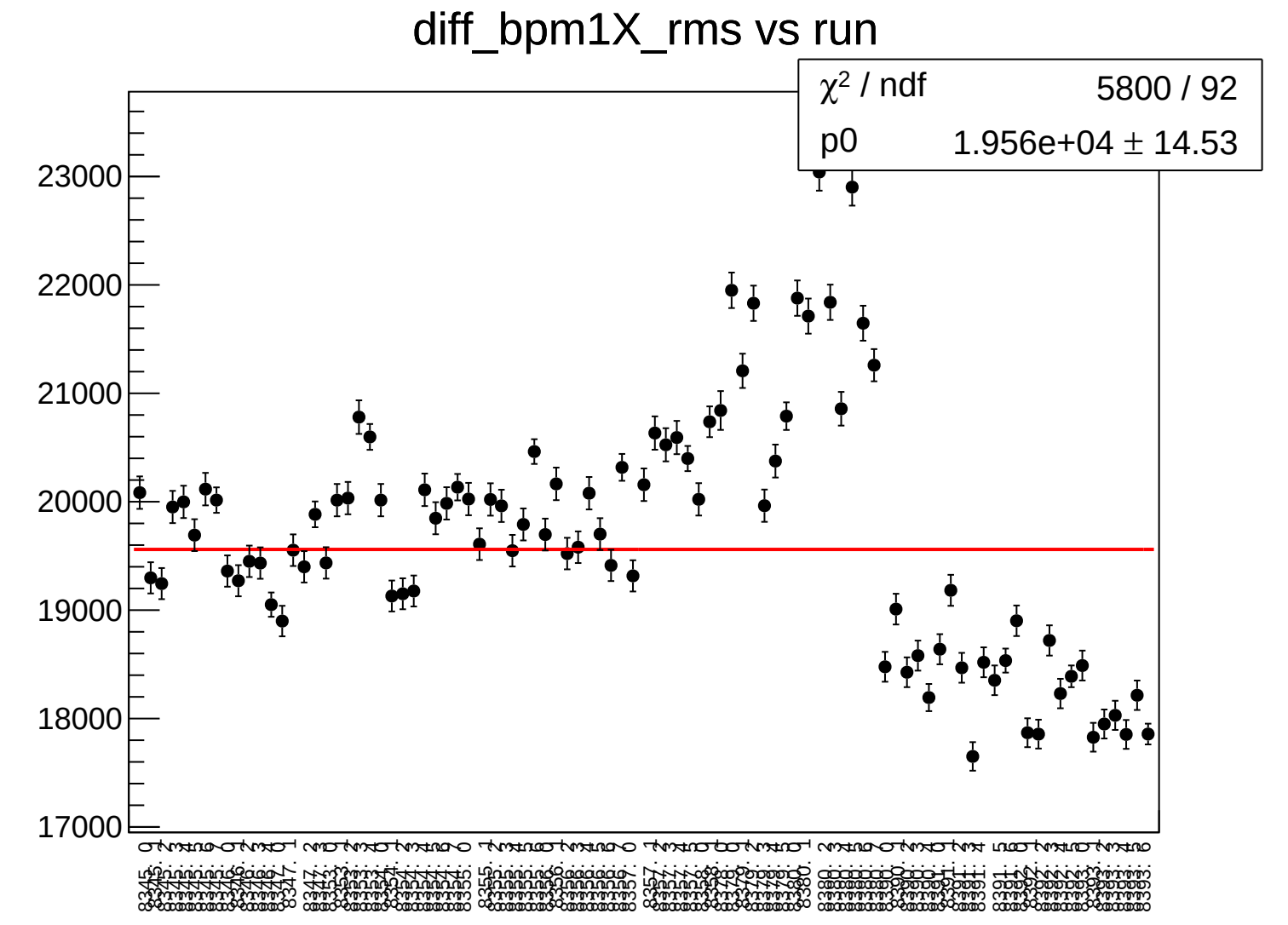

diff_bpm4ecY_mean vs run
χ² / ndf 97.41 / 92
p0 6.716 ± 5.636
200
100
0
−100
−200
pull
Entries 93
Mean −1564
Std Dev 0
2
1
0
−1
−2
−3

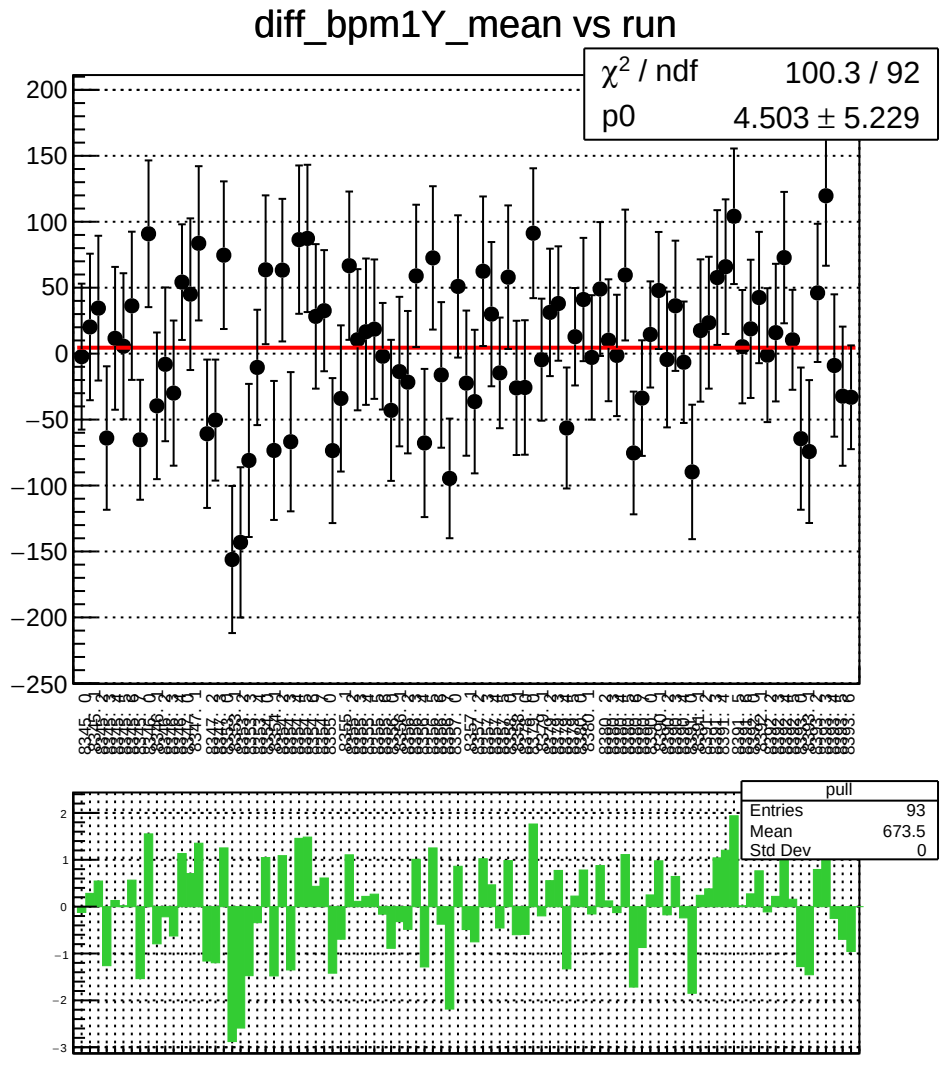

pull1D
Entries 93
Mean −0.001042
Std Dev 1.023
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

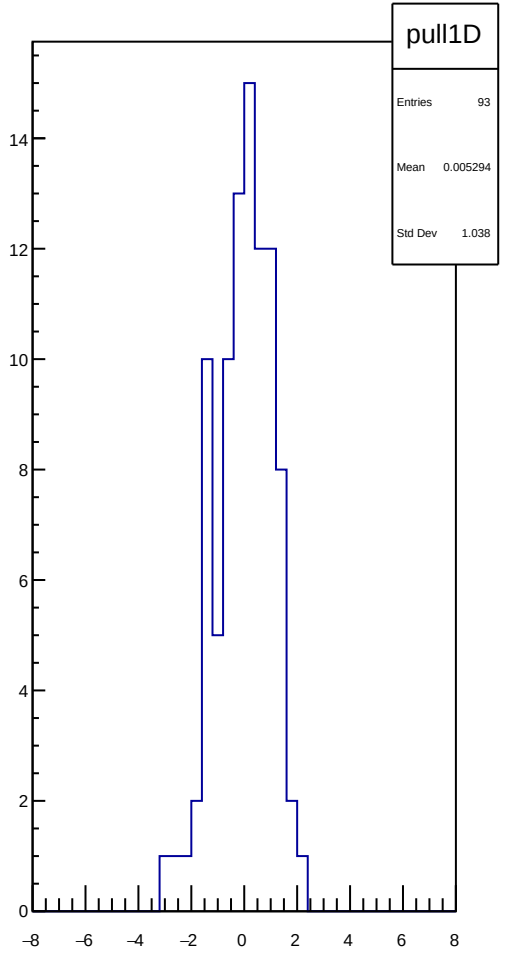

diff_bpm4ecY_rms vs run
χ² / ndf 8.849e+04 / 92
p0 5243 ± 3.985
7000
6500
6000
5500
5000
4500
4000
3500
3000

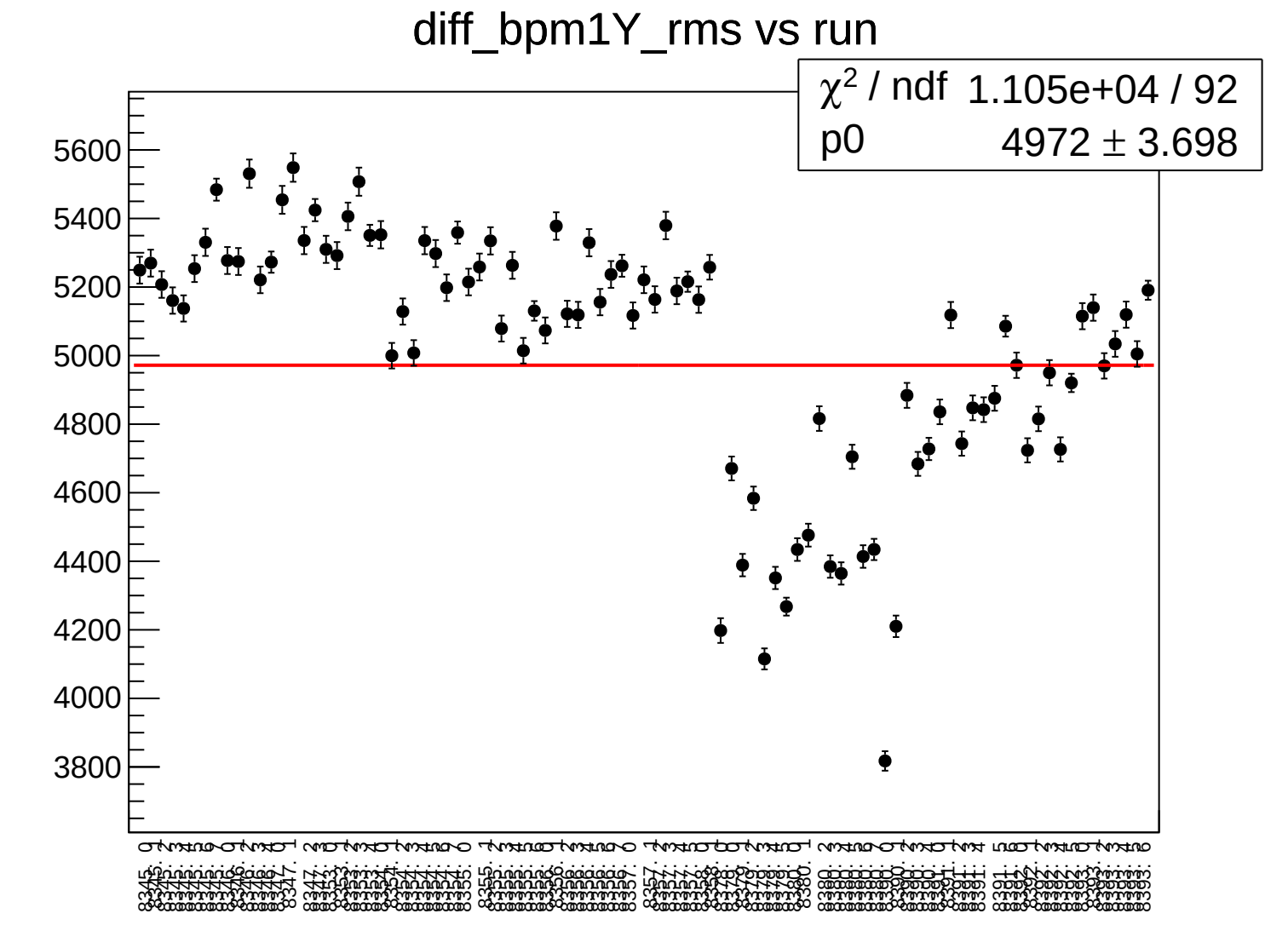

diff_bpm1X_mean vs run
χ² / ndf 118.5 / 92
p0 −70.86 ± 20.54
pull
Entries 93
Mean −503.7
Std Dev 0

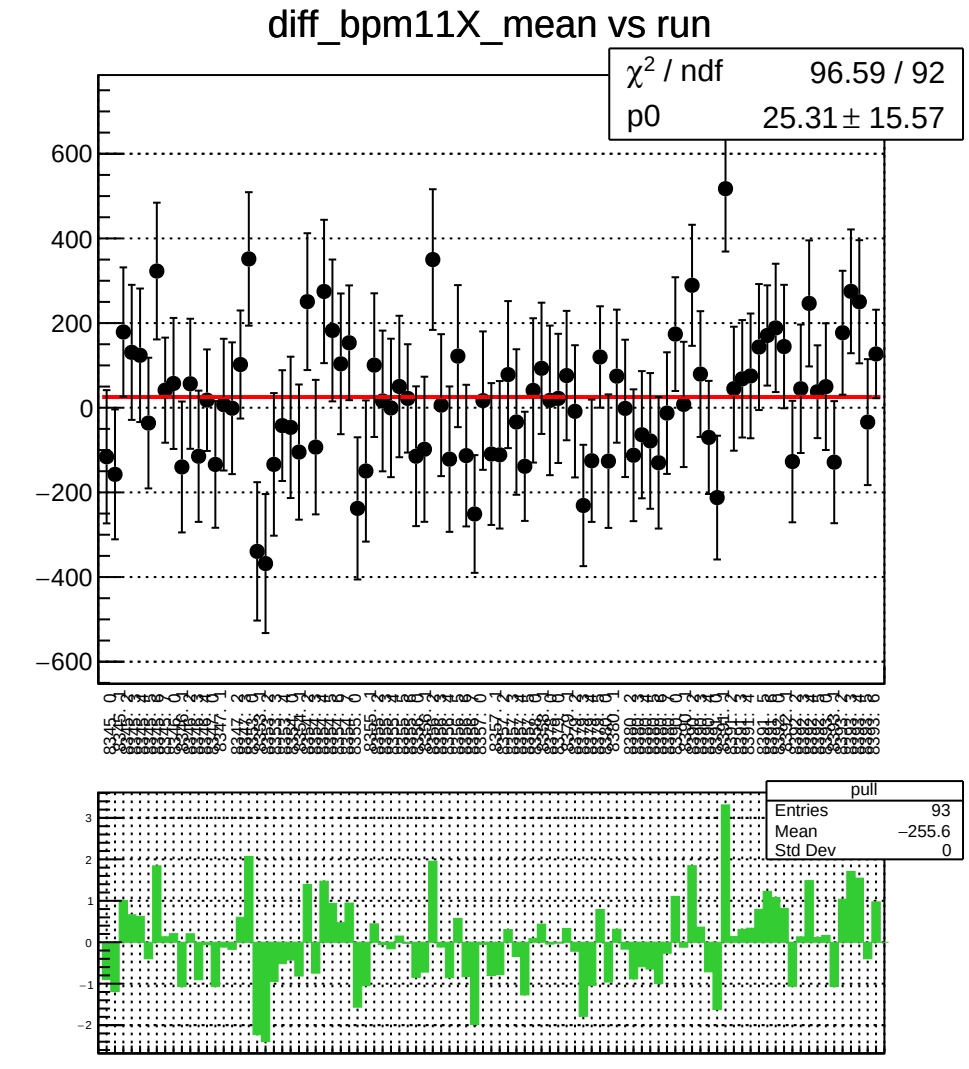

pull1D
Entries 93
Mean 0.008854
Std Dev 1.129

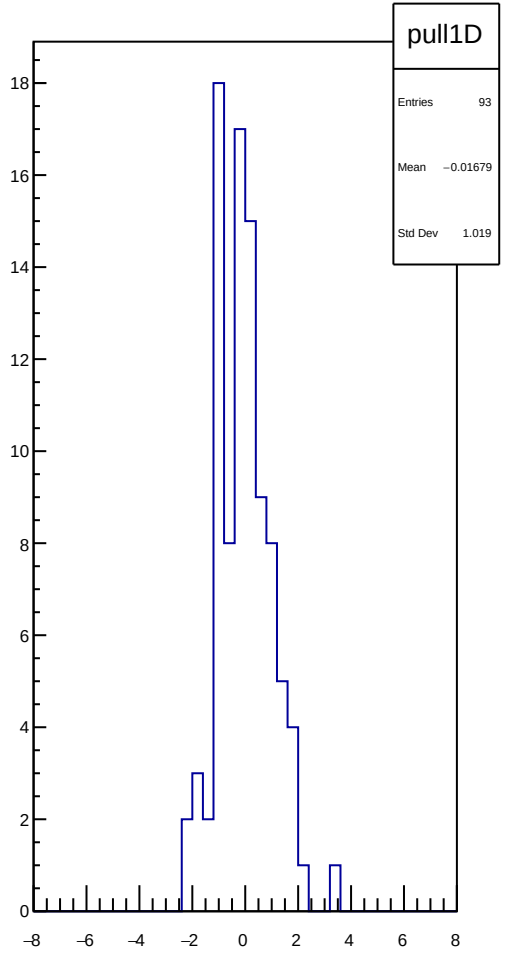

diff_bpm1X_rms vs run
χ² / ndf 5800 / 92
p0 1.956e+04 ± 14.53
23000
22000
21000
20000
19000
18000
17000

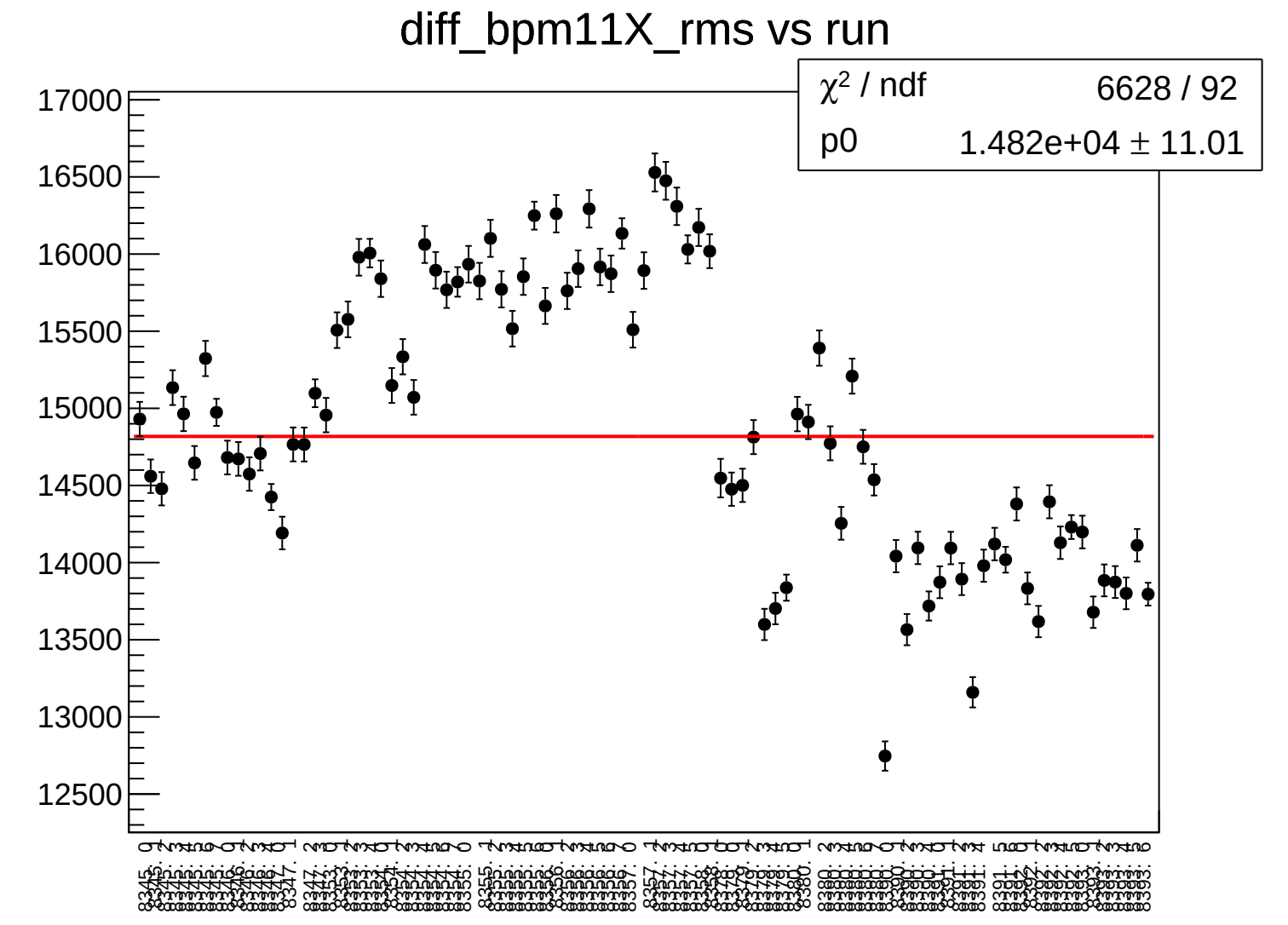

diff_bpm1Y_mean vs run
χ² / ndf 100.3 / 92
p0 4.503 ± 5.229
pull
Entries 93
Mean 673.5
Std Dev 0

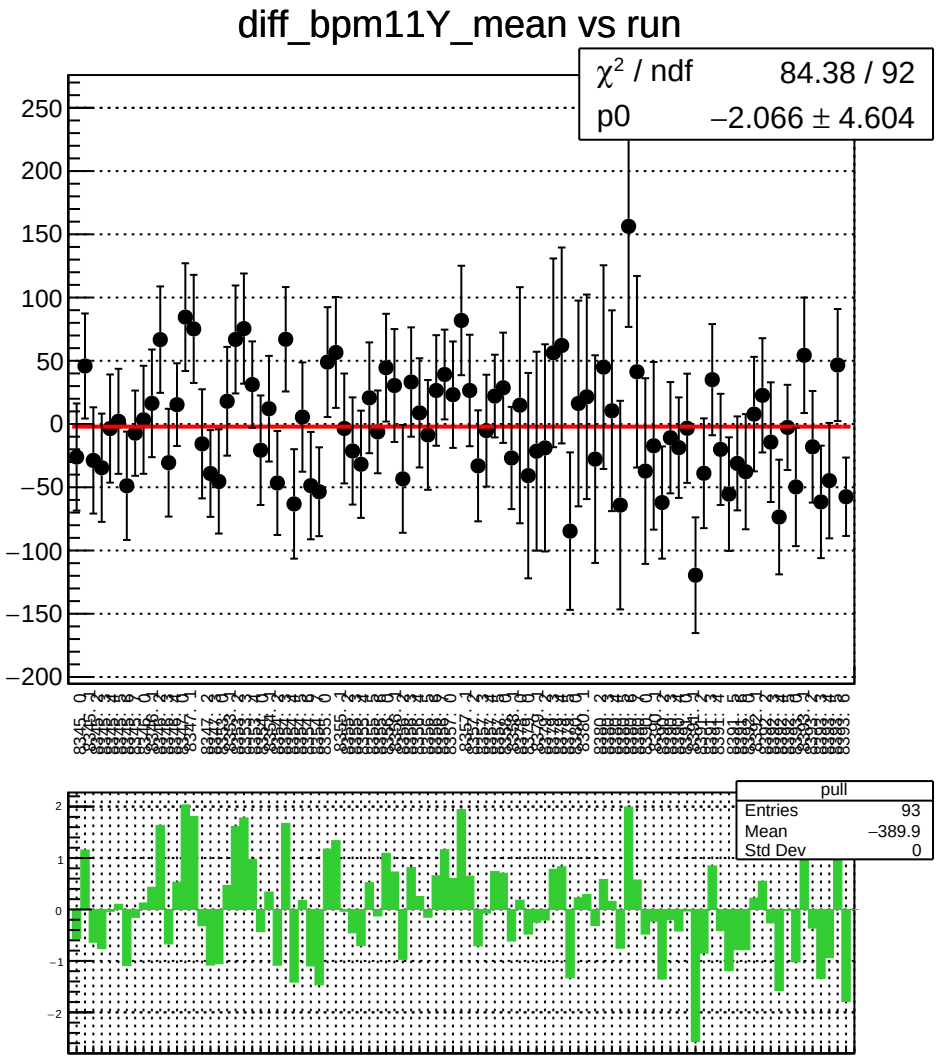

pull1D
Entries 93
Mean 0.005294
Std Dev 1.038

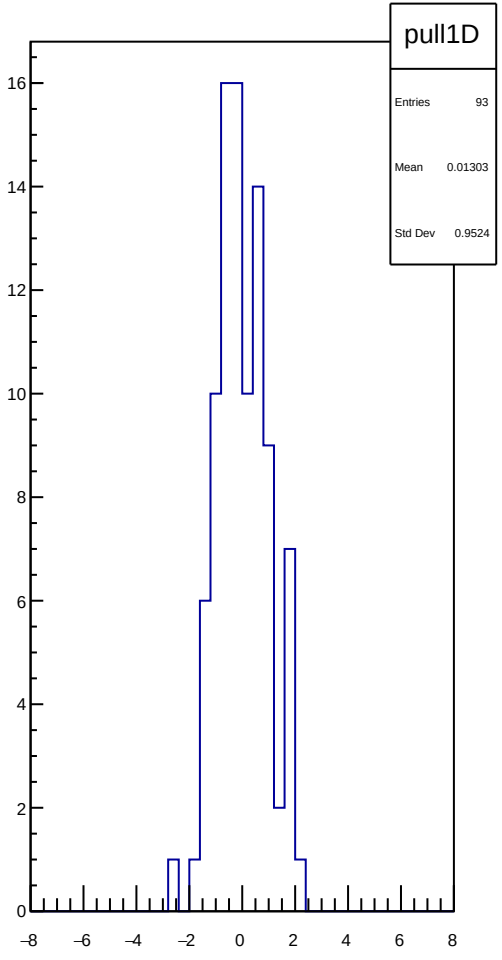

diff_bpm1Y_rms vs run
χ² / ndf 1.105e+04 / 92
p0 4972 ± 3.698
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800

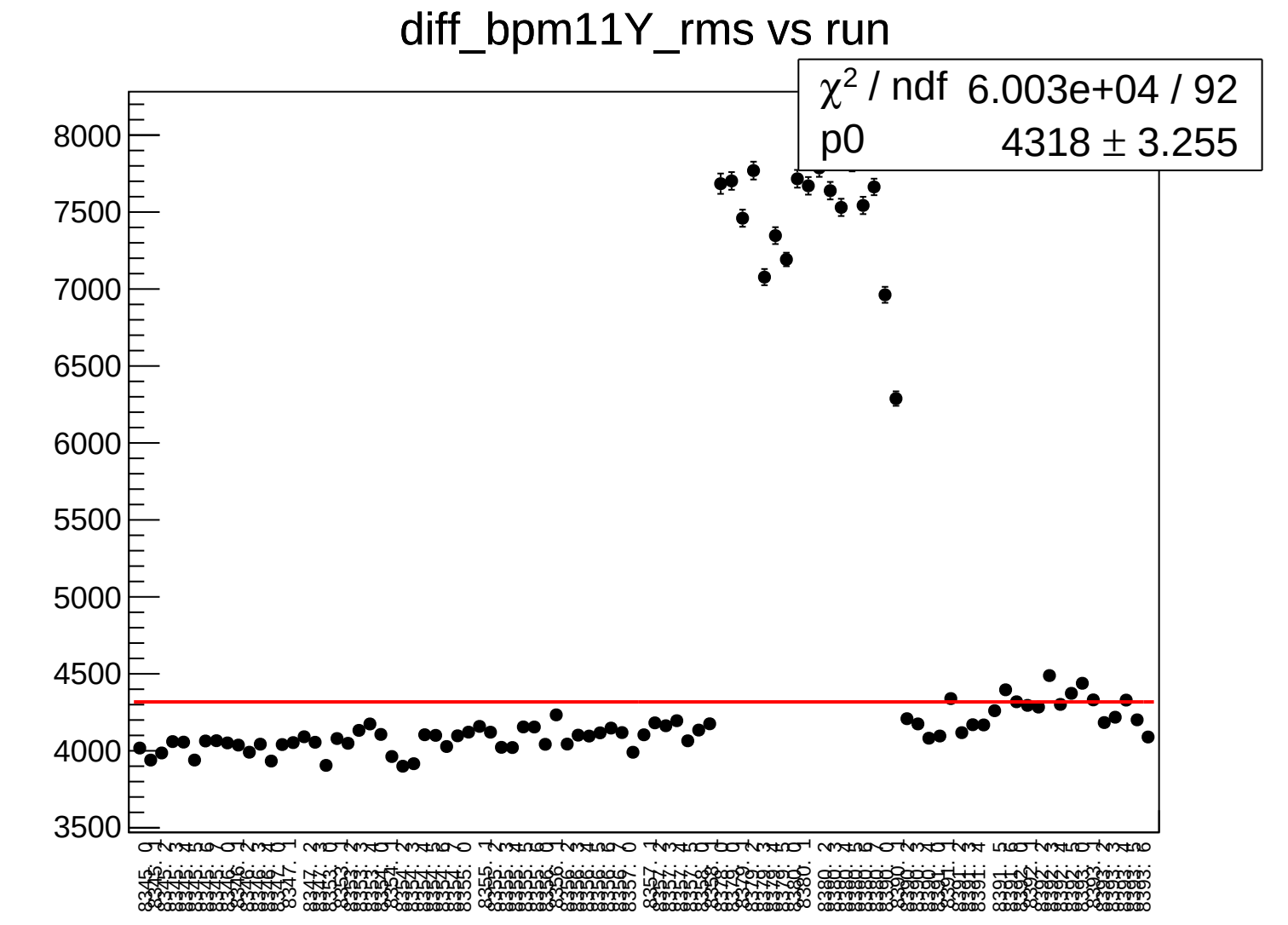

diff_bpm11X_mean vs run
χ² / ndf 96.59 / 92
p0 25.31 ± 15.57
pull
Entries 93
Mean −255.6
Std Dev 0

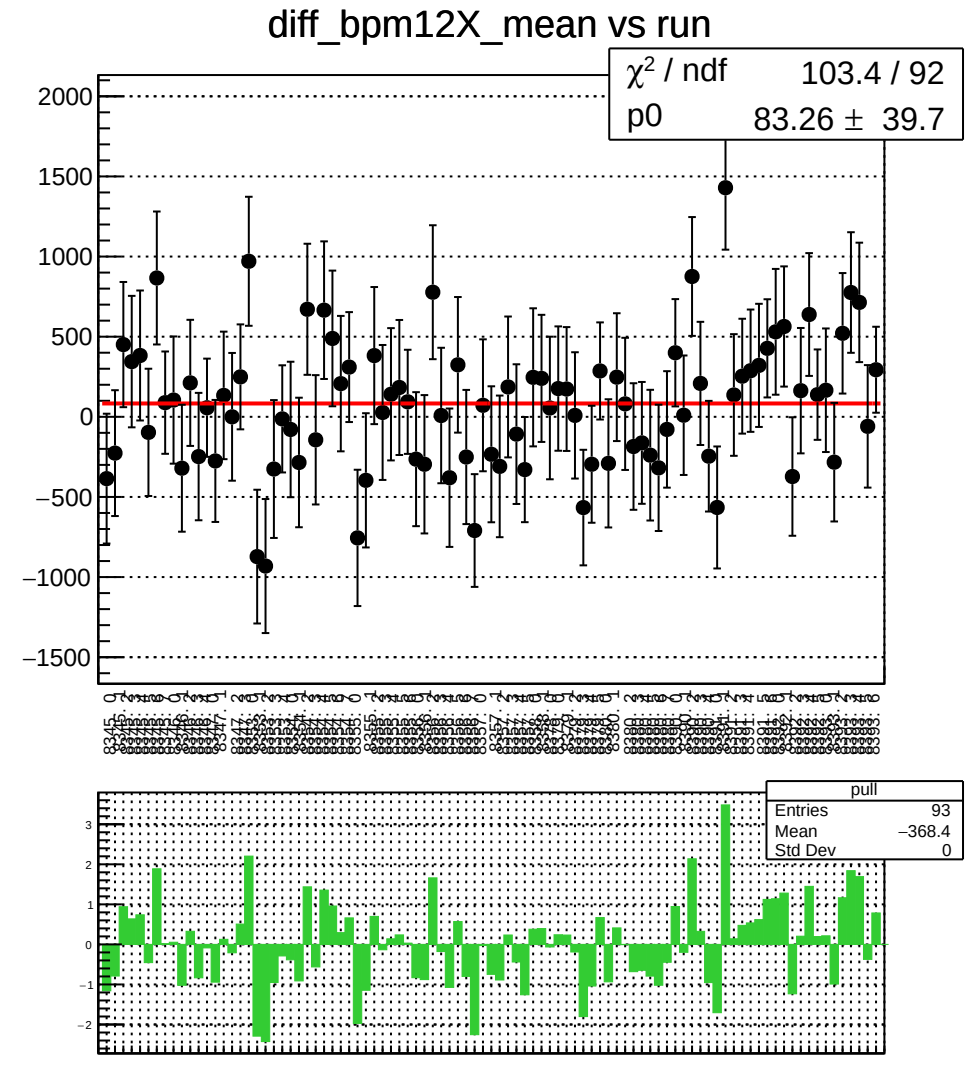

pull1D
Entries 93
Mean −0.01679
Std Dev 1.019

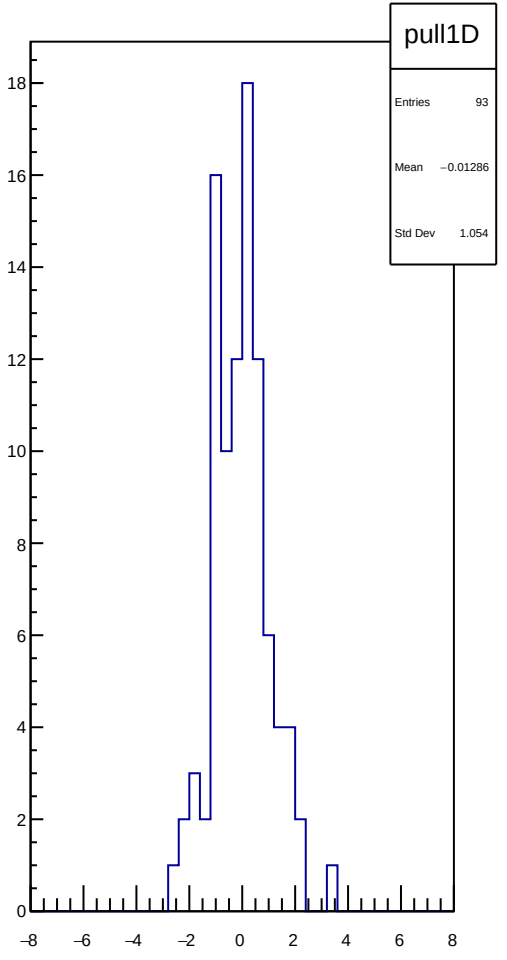

diff_bpm11X_rms vs run
χ² / ndf 6628 / 92
p0 1.482e+04 ± 11.01
17000
16500
16000
15500
15000
14500
14000
13500
13000
12500

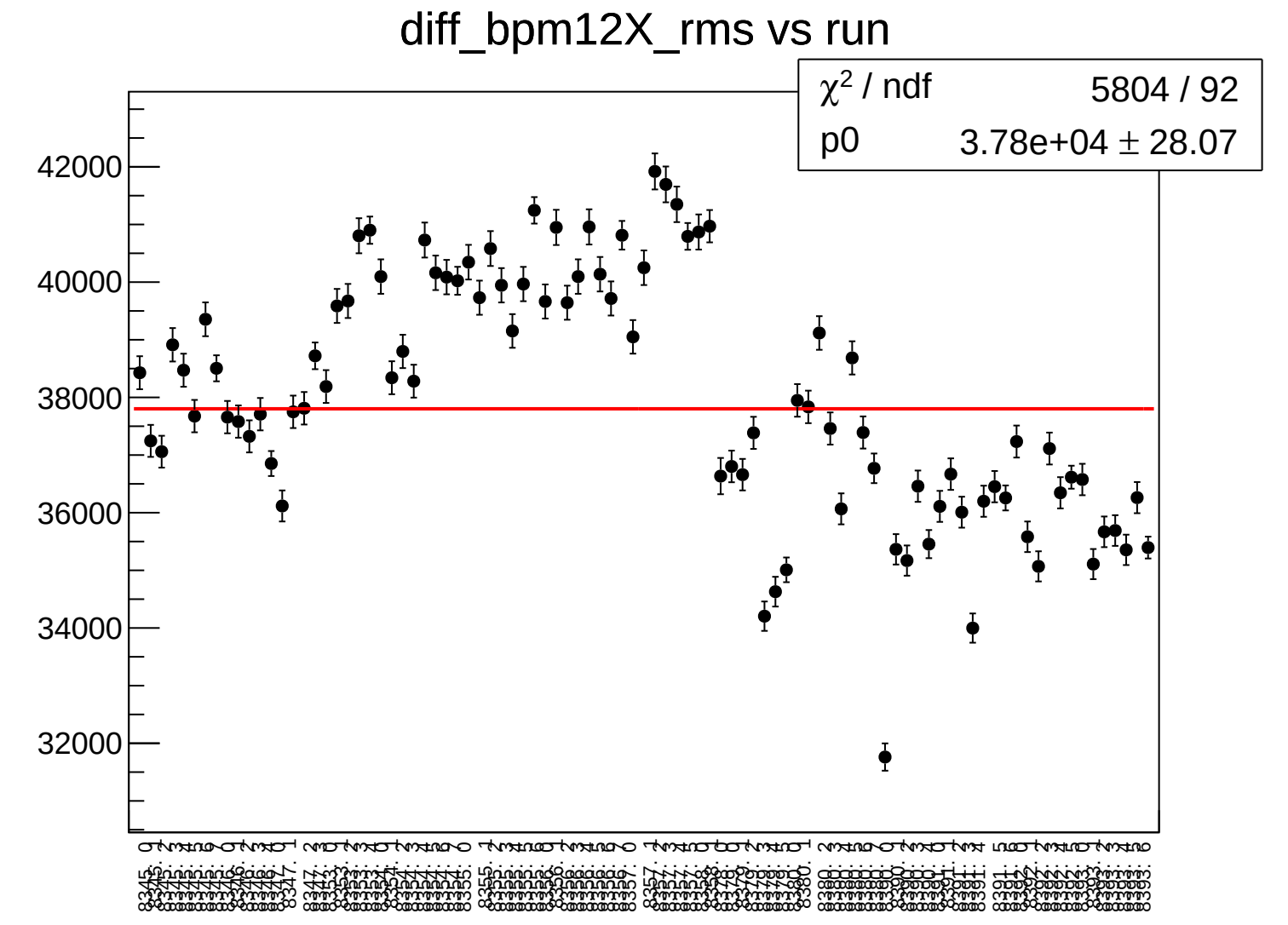

diff_bpm11Y_mean vs run
χ² / ndf 84.38 / 92
p0 −2.066 ± 4.604
pull
Entries 93
Mean −389.9
Std Dev 0

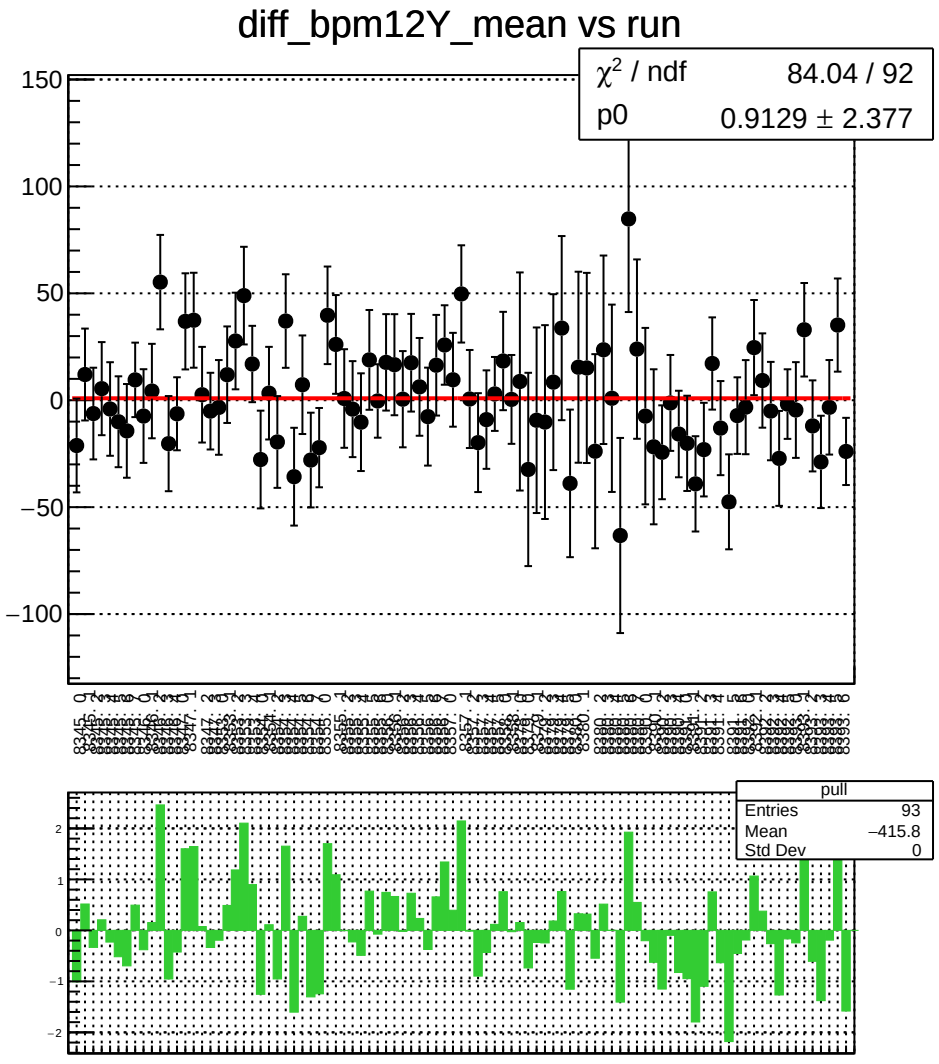

pull1D
Entries 93
Mean 0.01303
Std Dev 0.9524

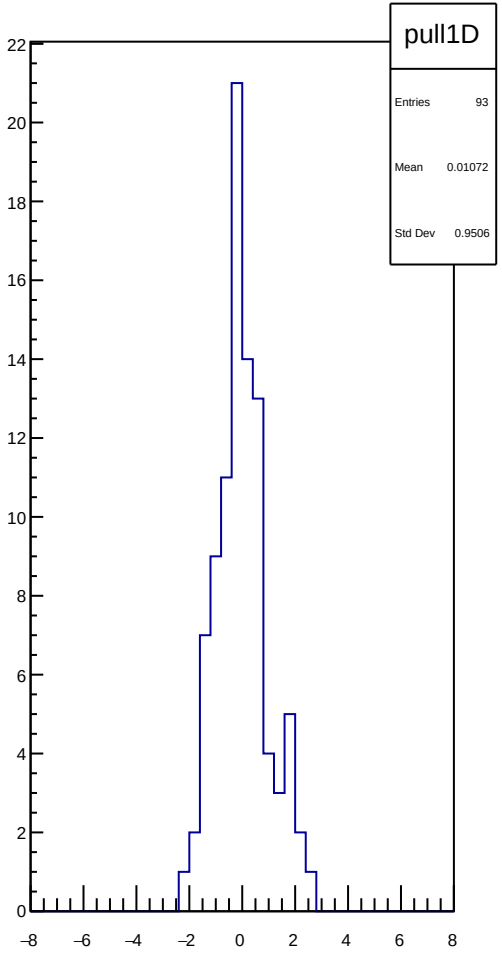

diff_bpm11Y_rms vs run
χ² / ndf 6.003e+04 / 92
p0 4318 ± 3.255
8000
7500
7000
6500
6000
5500
5000
4500
4000
3500

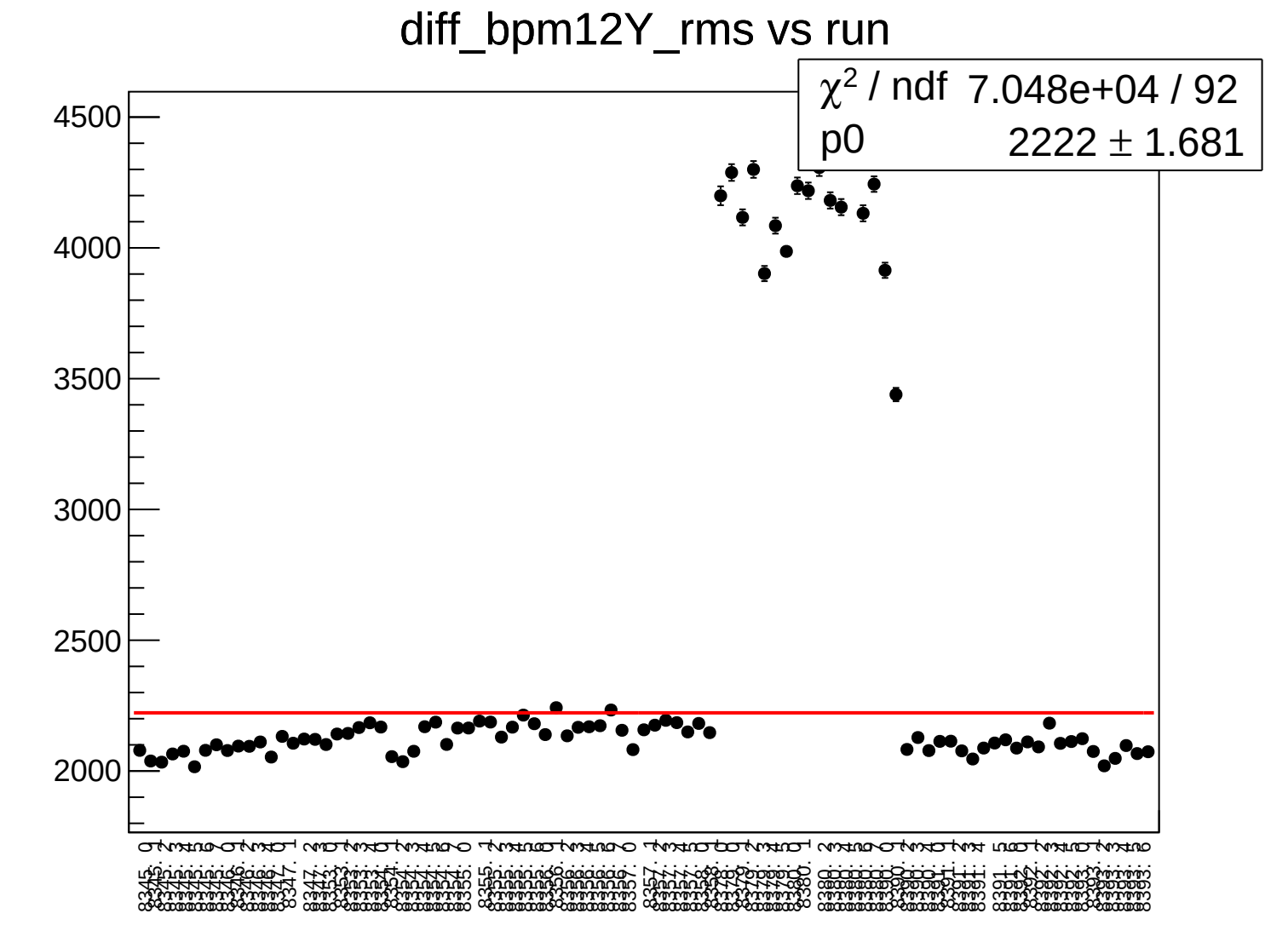

diff_bpm12X_mean vs run
χ² / ndf 103.4 / 92
p0 83.26 ± 39.7
pull
Entries 93
Mean −368.4
Std Dev 0

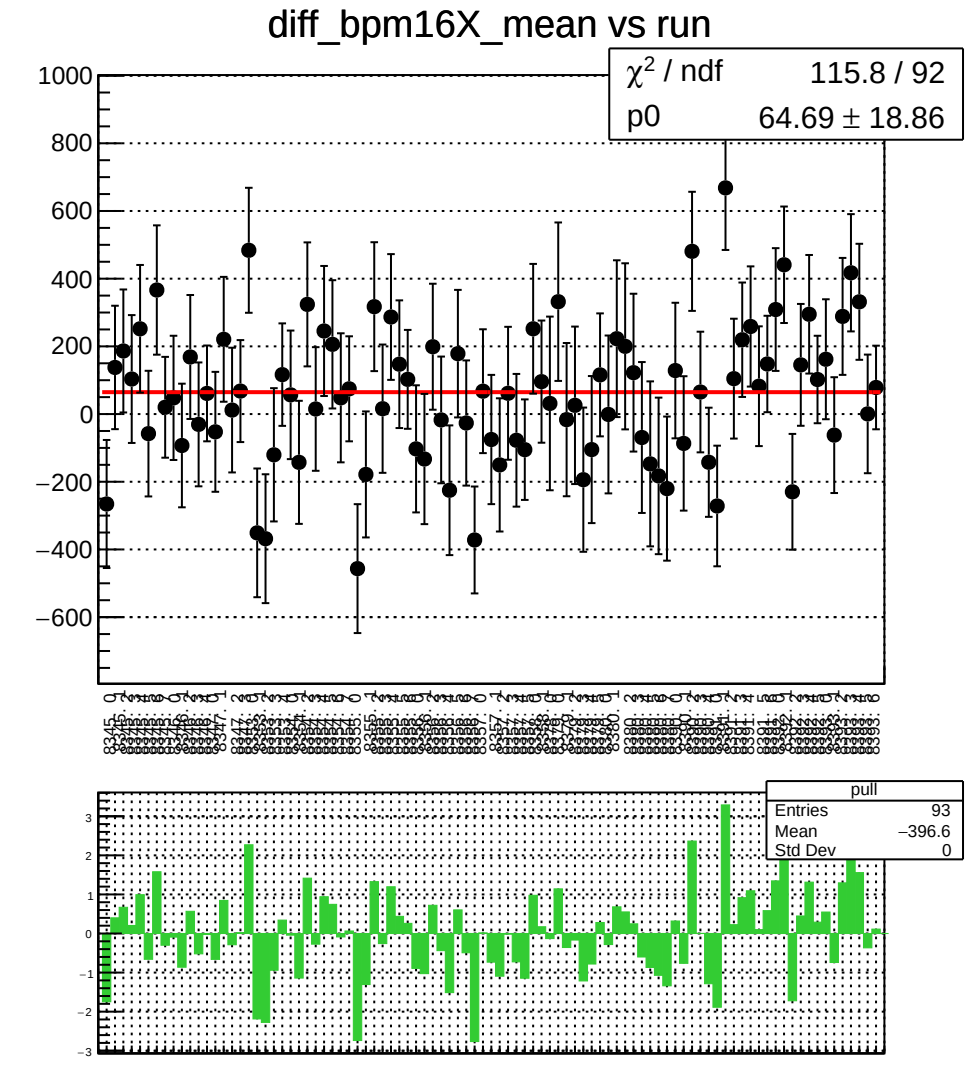

pull1D
Entries 93
Mean −0.01286
Std Dev 1.054

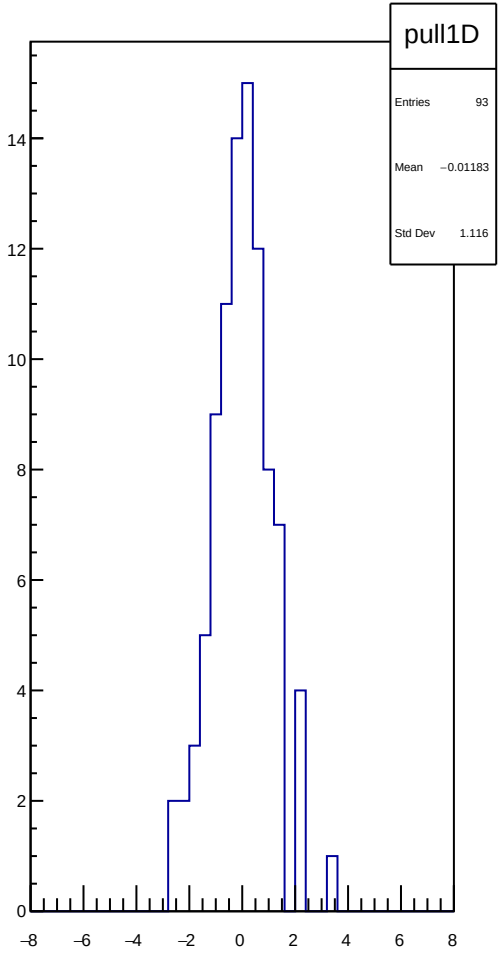

diff_bpm12X_rms vs run
χ² / ndf 5804 / 92
p0 3.78e+04 ± 28.07
42000
40000
38000
36000
34000
32000

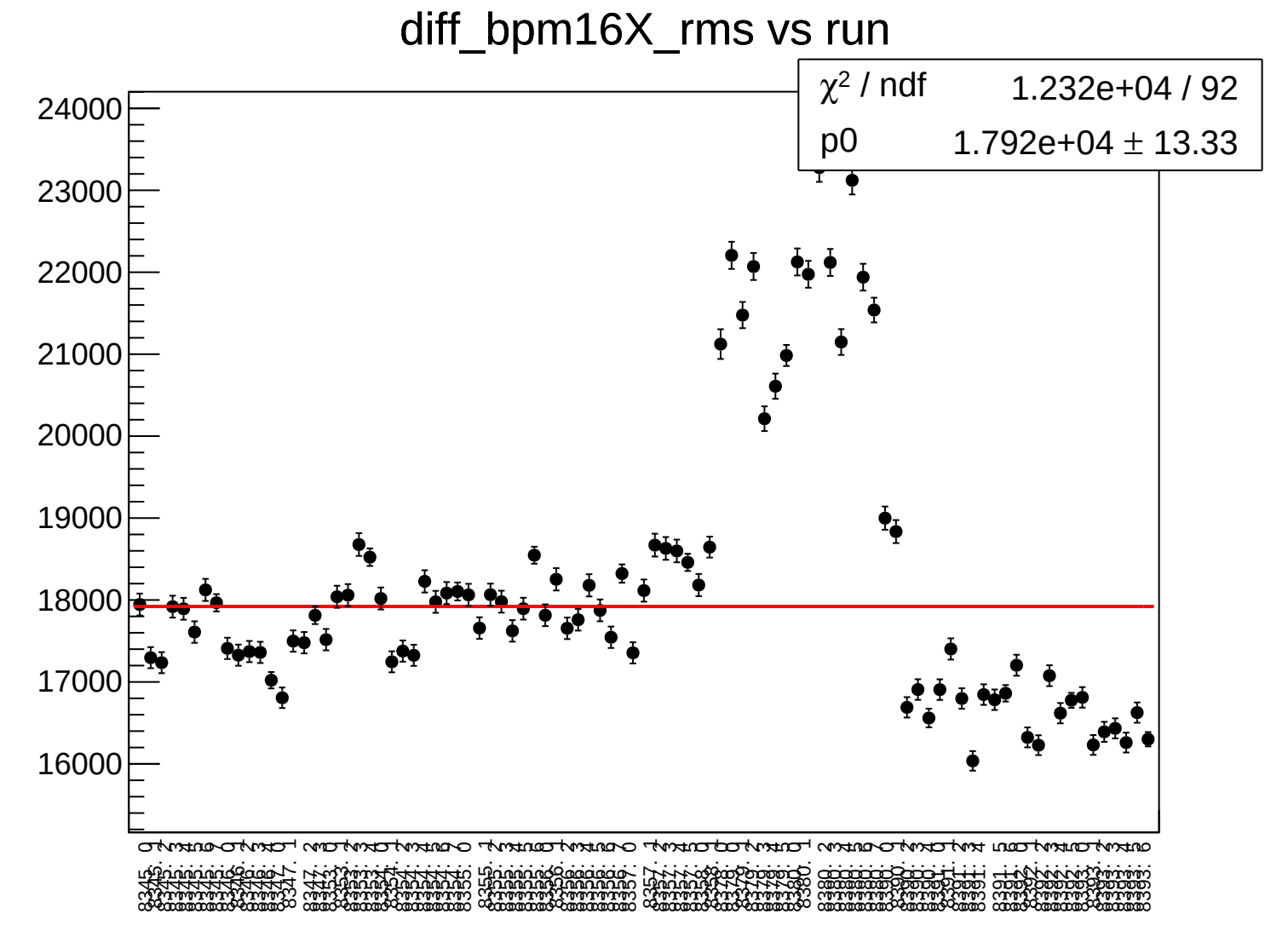

diff_bpm12Y_mean vs run
χ² / ndf 84.04 / 92
p0 0.9129 ± 2.377
150
100
50
0
−50
−100
pull
Entries 93
Mean −415.8
Std Dev 0
2
1
0
−1
−2

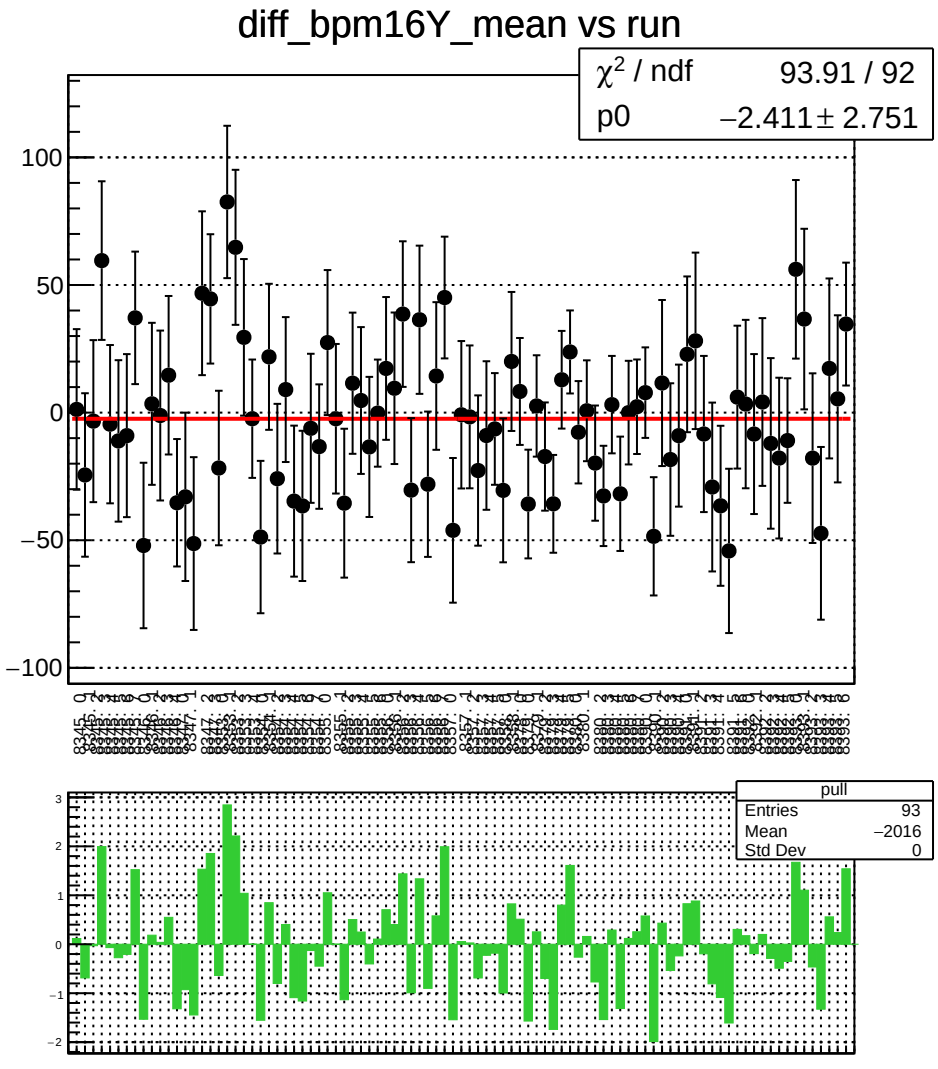

pull1D
Entries 93
Mean 0.01072
Std Dev 0.9506
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

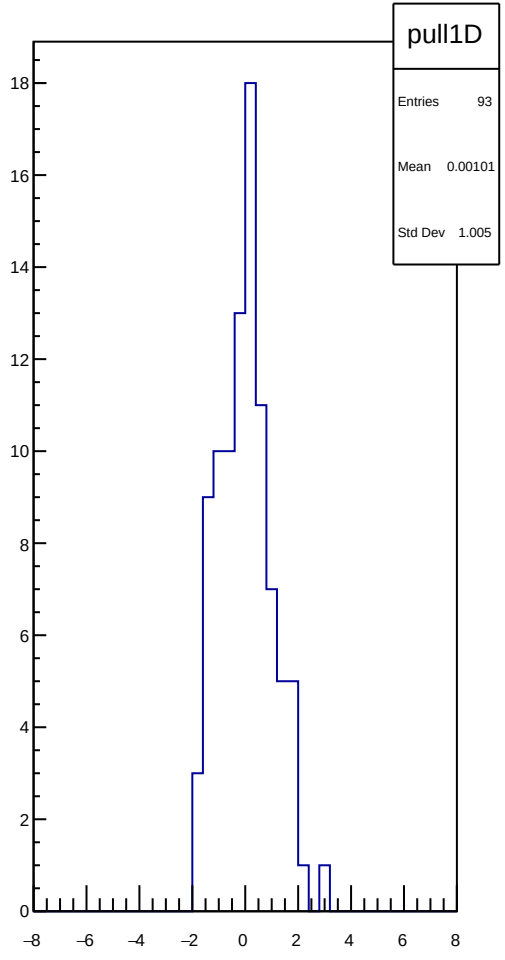

diff_bpm12Y_rms vs run
χ^2 / ndf 7.048e+04 / 92
p0 2222 ± 1.681
4500
4000
3500
3000
2500
2000

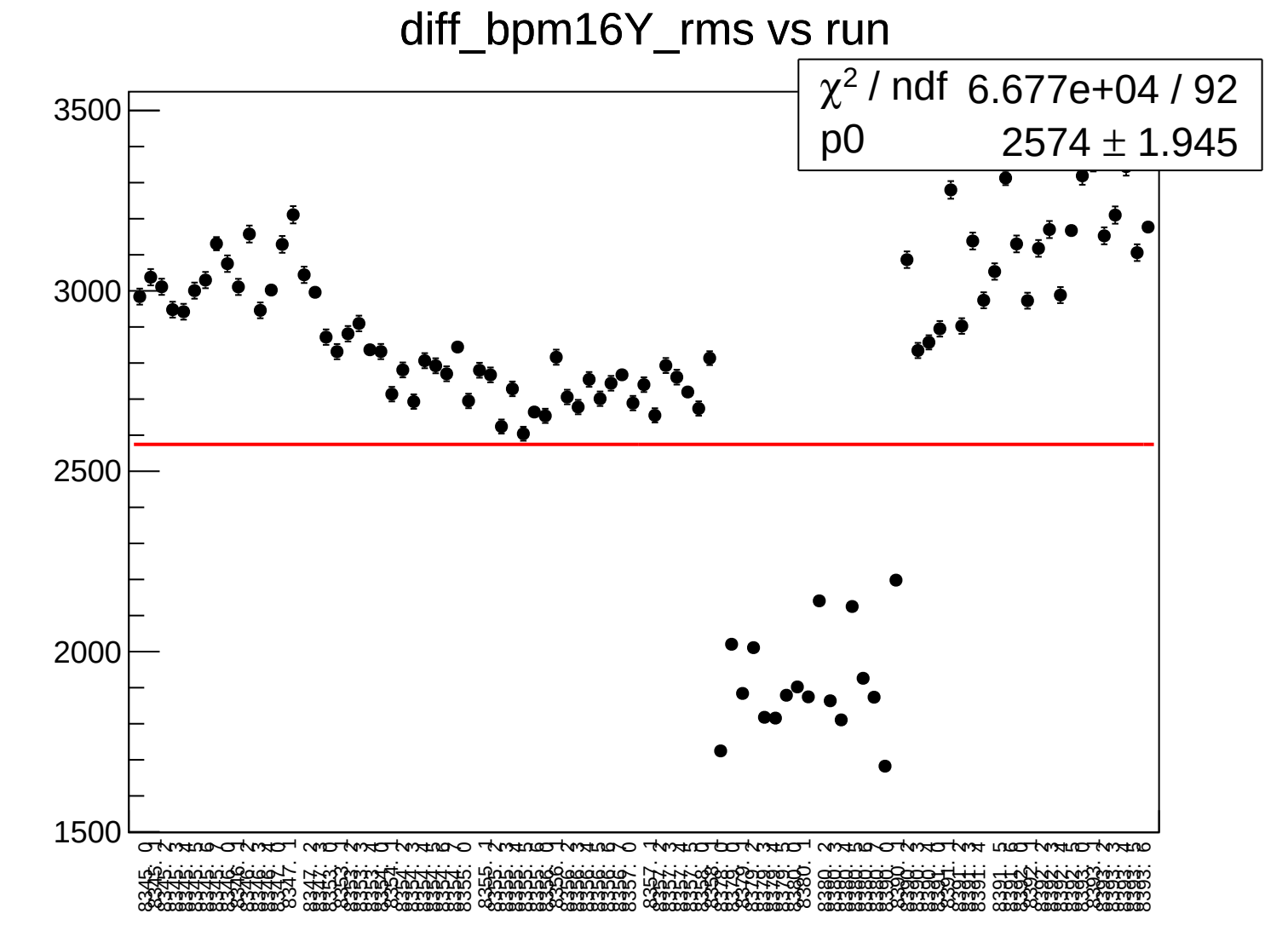

diff_bpm16X_mean vs run
χ^2 / ndf 115.8 / 92
p0 64.69 ± 18.86
pull
Entries 93
Mean −396.6
Std Dev 0

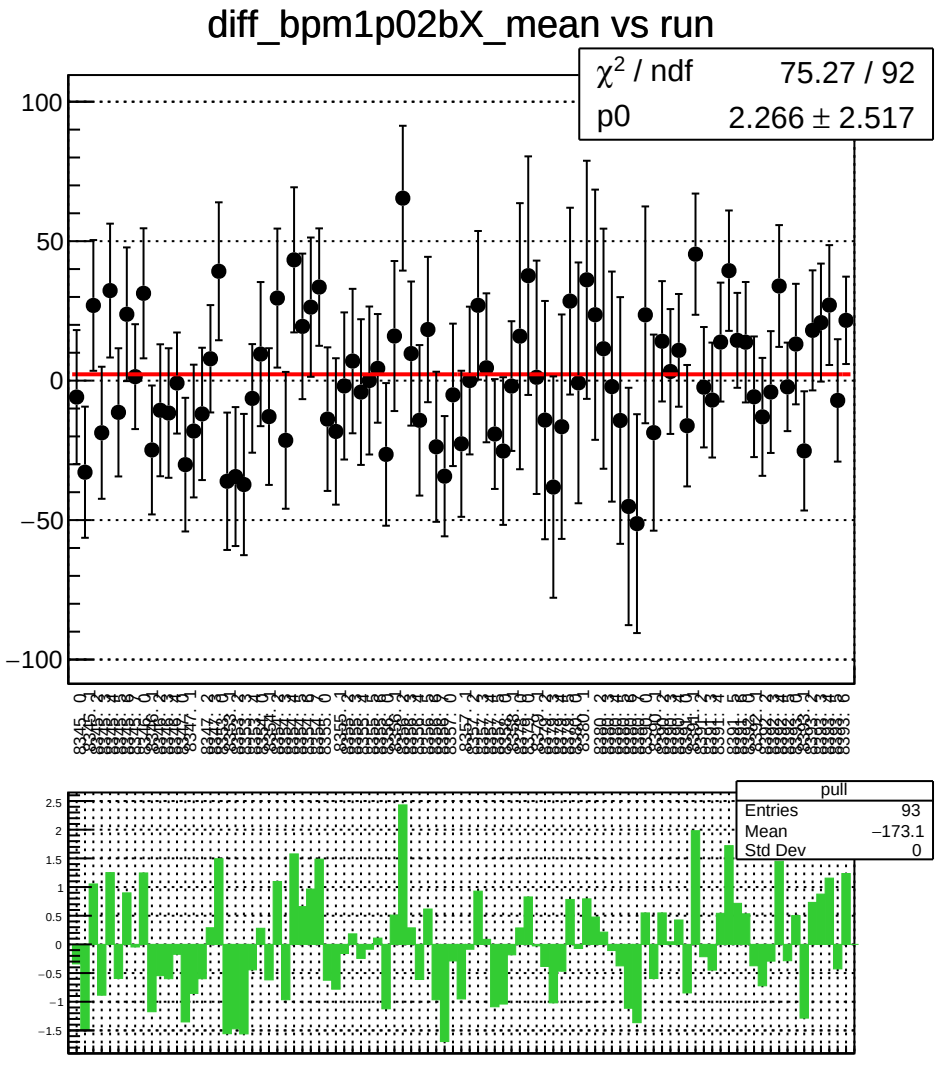

pull1D
Entries 93
Mean −0.01183
Std Dev 1.116

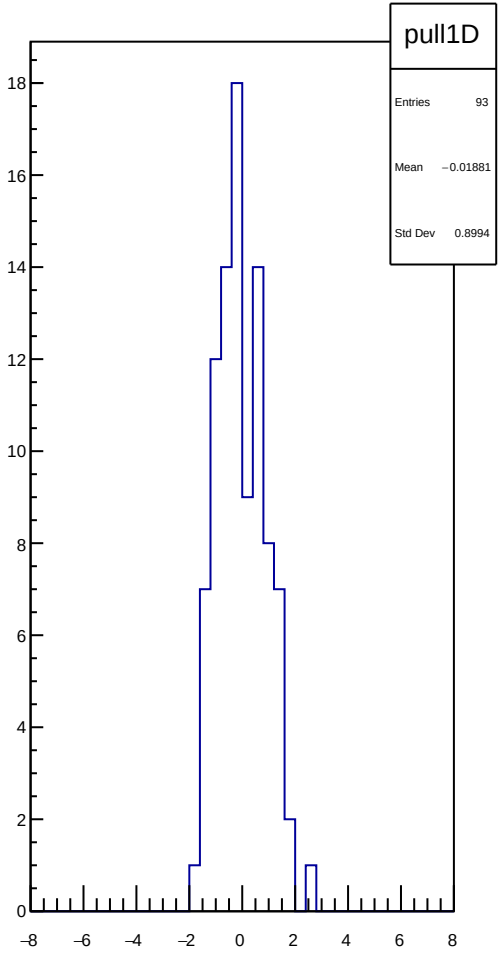

diff_bpm16X_rms vs run
χ² / ndf 1.232e+04 / 92
p0 1.792e+04 ± 13.33
24000
23000
22000
21000
20000
19000
18000
17000
16000

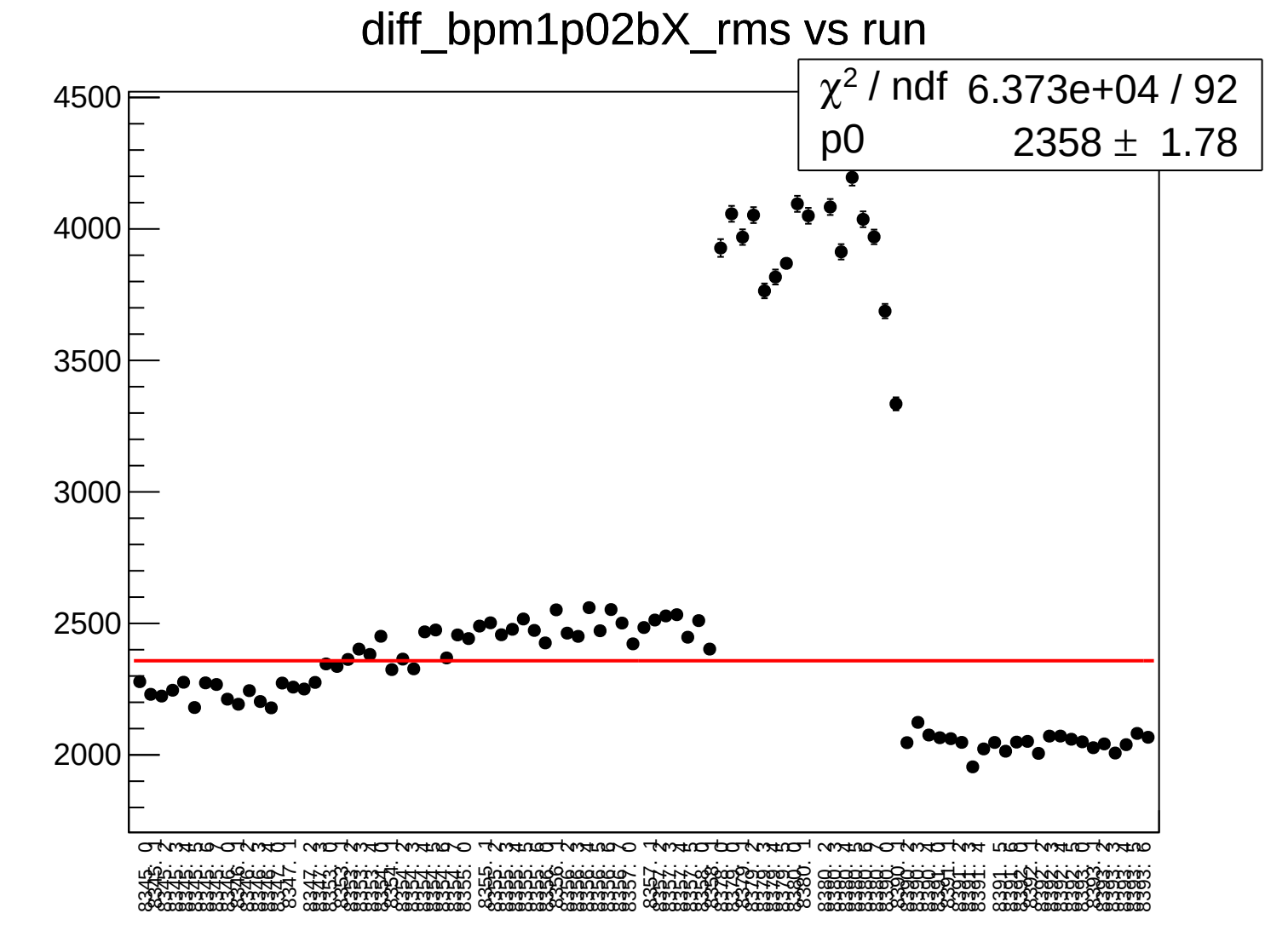

diff_bpm16Y_mean vs run
χ² / ndf 93.91 / 92
p0 −2.411 ± 2.751
100
50
0
−50
−100
pull
Entries 93
Mean −2016
Std Dev 0
3
2
1
0
−1
−2

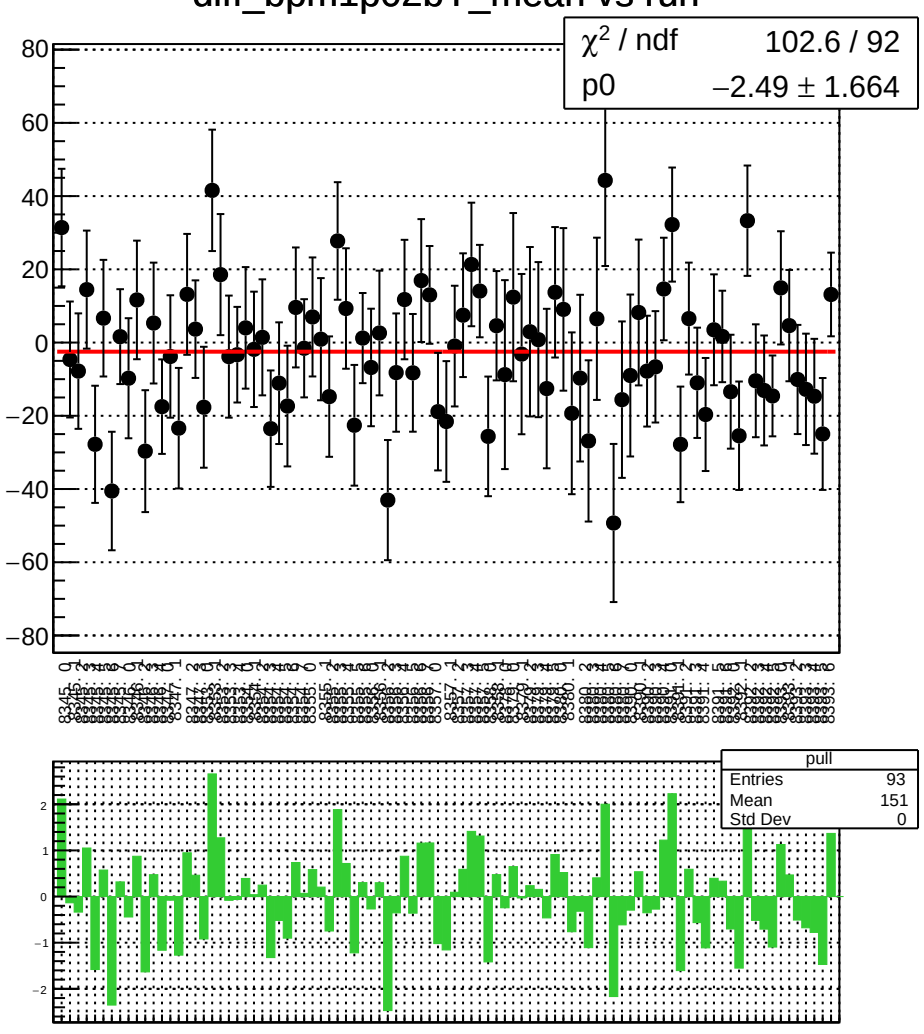

pull1D
Entries 93
Mean 0.00101
Std Dev 1.005
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

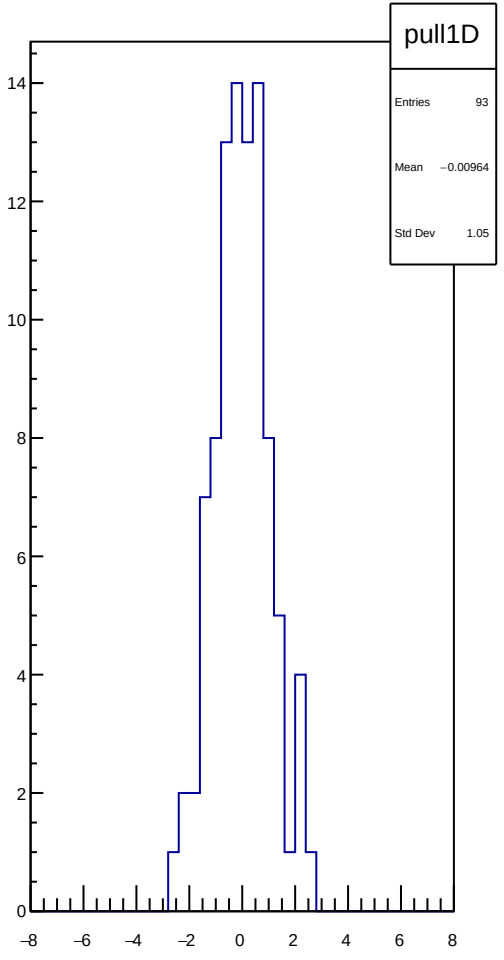

diff_bpm16Y_rms vs run
χ² / ndf 6.677e+04 / 92
p0 2574 ± 1.945
3500
3000
2500
2000
1500

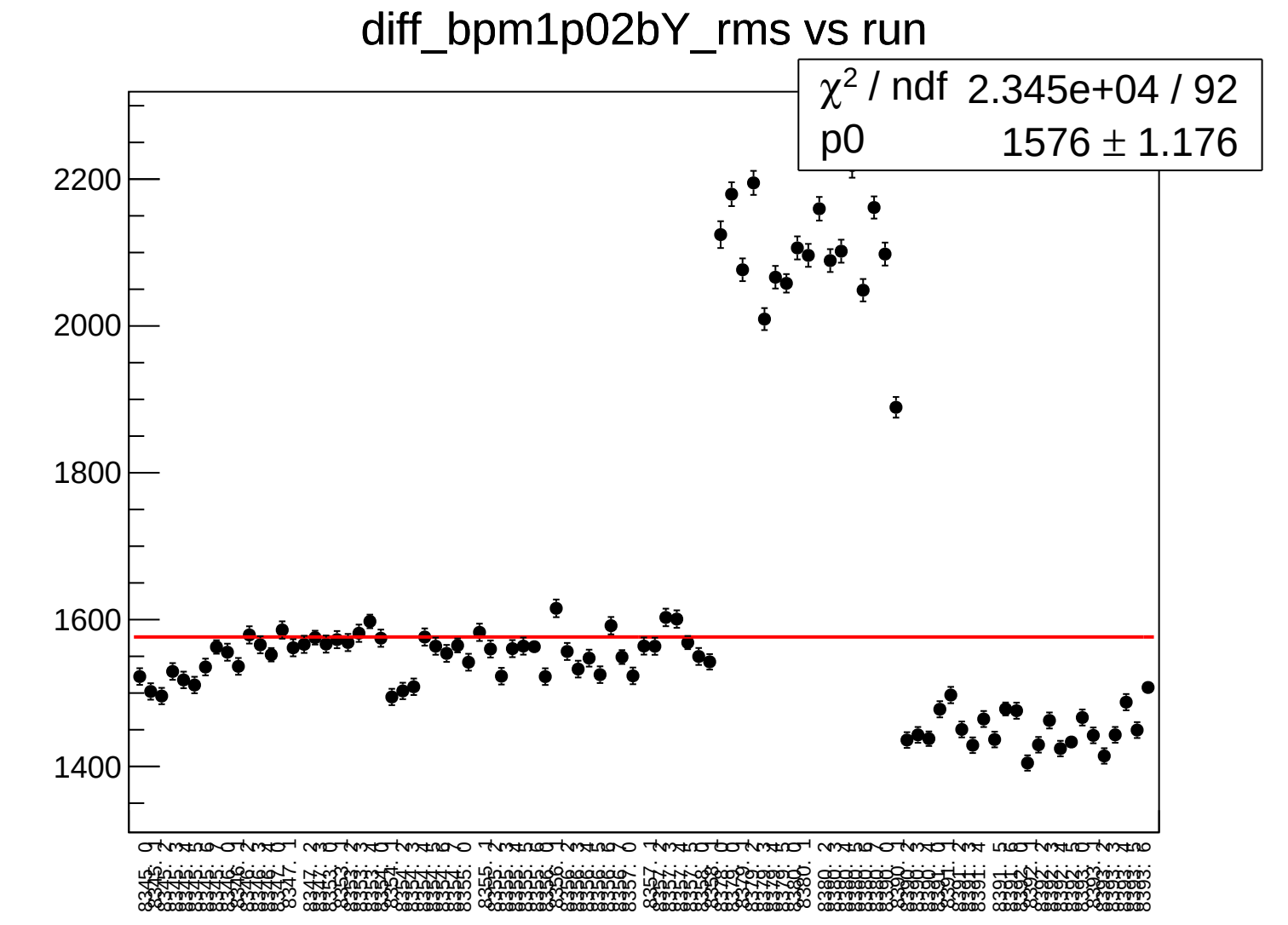

diff_bpm1p02bX_mean vs run
χ^2 / ndf 75.27 / 92
p0 2.266 ± 2.517
100
50
0
−50
−100
pull
Entries 93
Mean −173.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

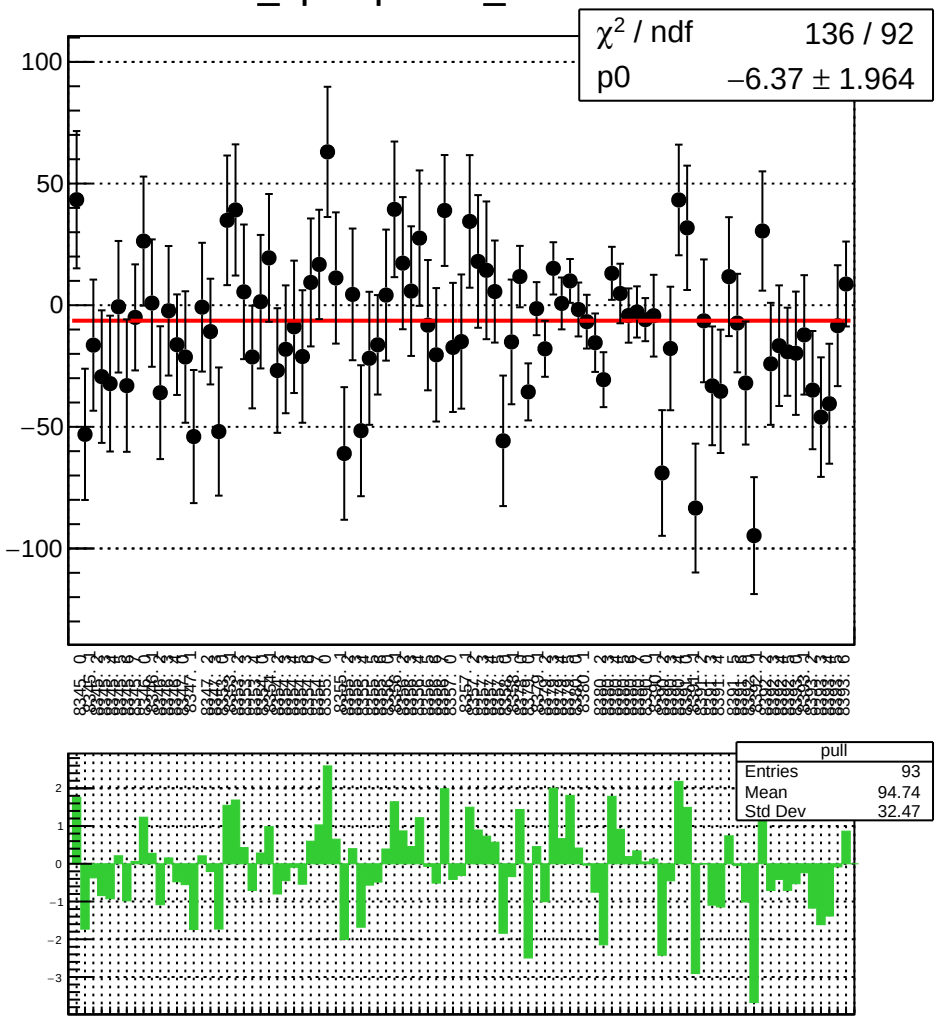

pull1D
Entries 93
Mean −0.01881
Std Dev 0.8994
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

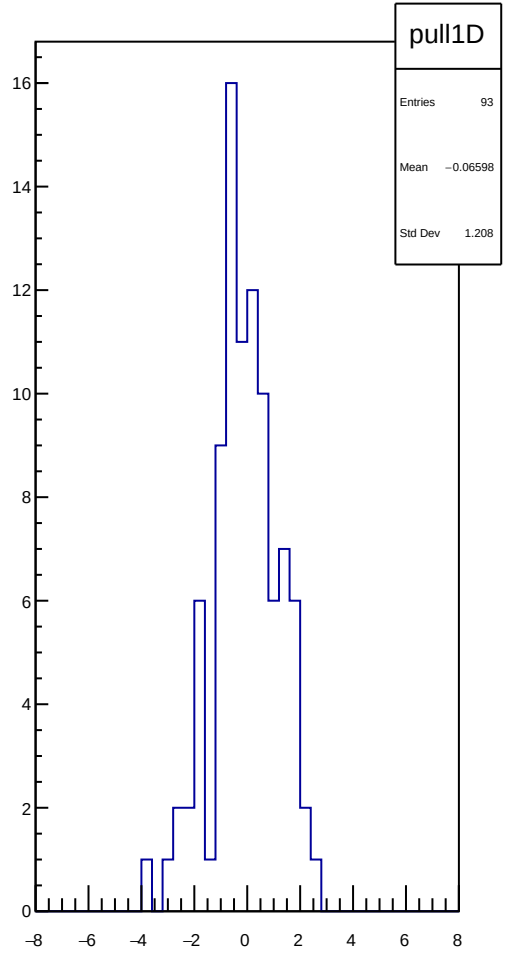

diff_bpm1p02bX_rms vs run
χ² / ndf 6.373e+04 / 92
p0 2358 ± 1.78
4500
4000
3500
3000
2500
2000

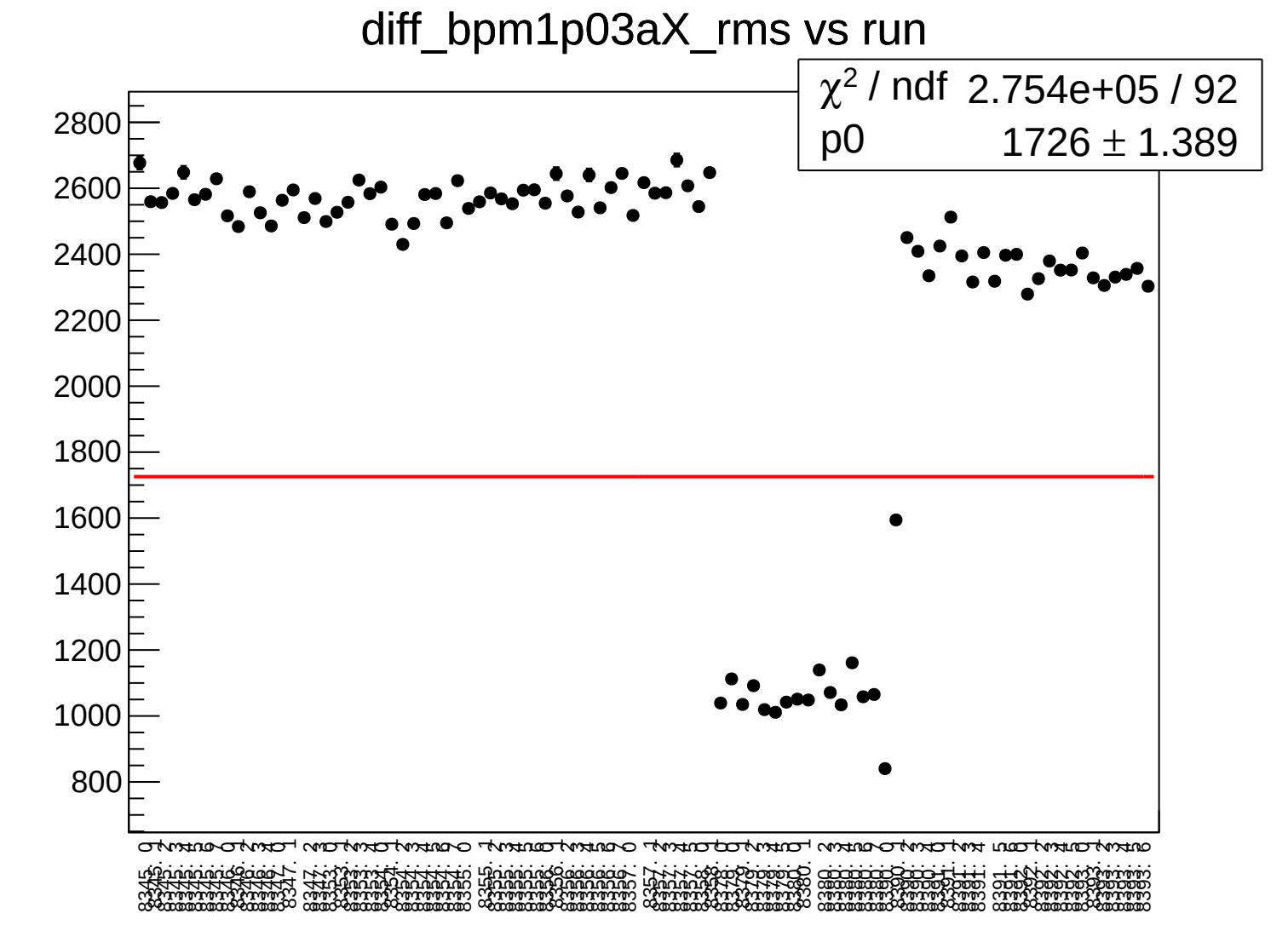

diff_bpm1p02bY_mean vs run
χ² / ndf 102.6 / 92
p0 −2.49 ± 1.664
pull
Entries 93
Mean 151
Std Dev 0

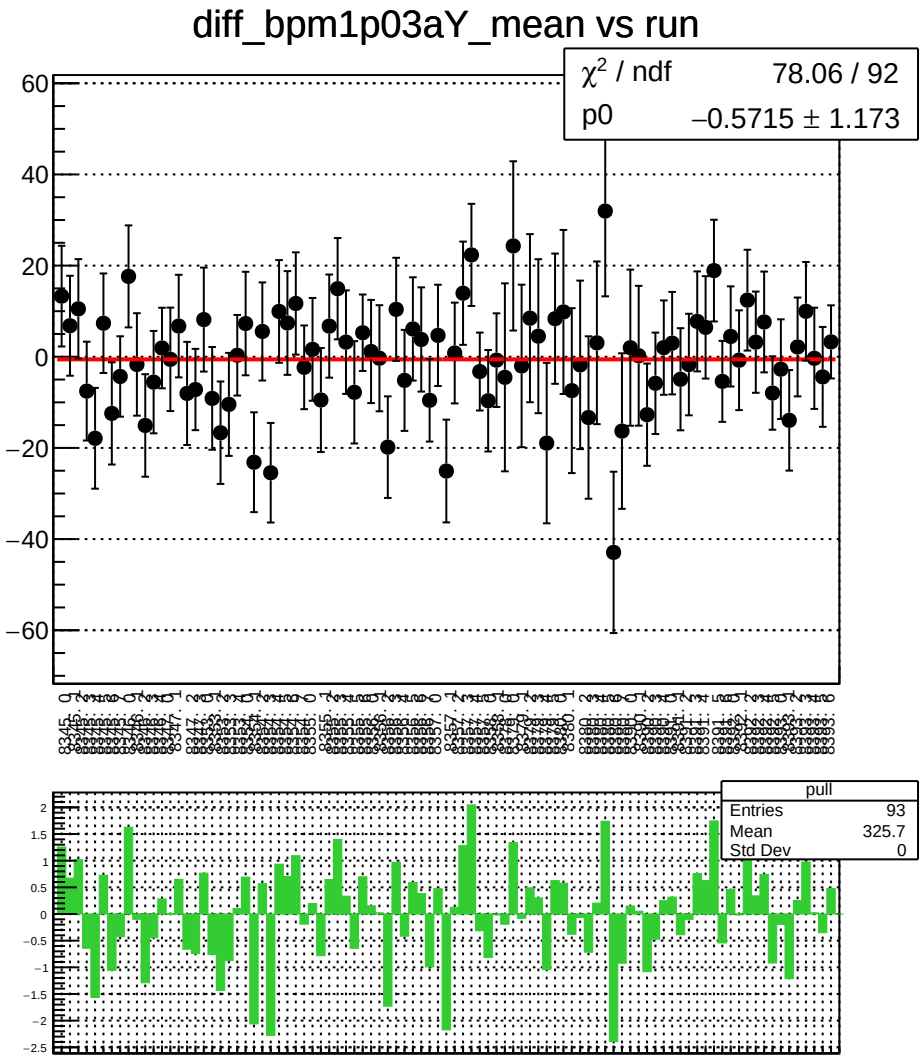

pull1D
Entries 93
Mean −0.00964
Std Dev 1.05

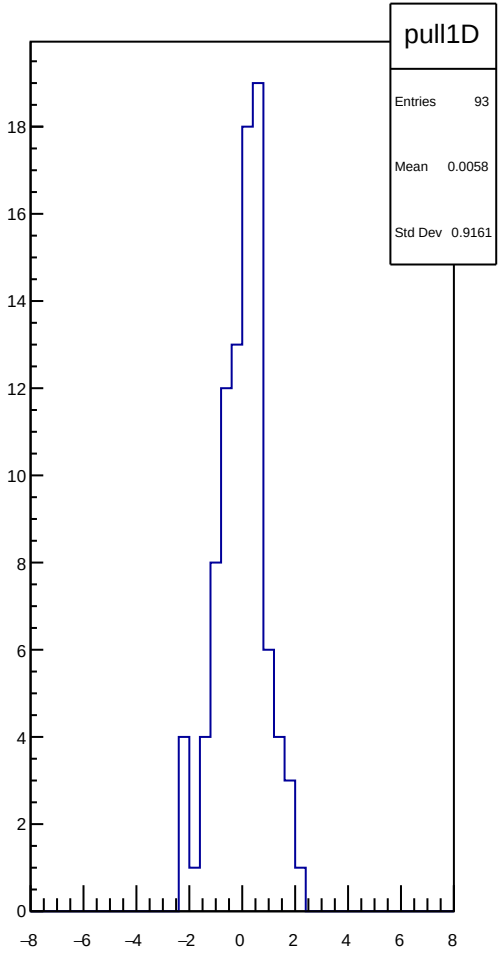

diff_bpm1p02bY_rms vs run
χ² / ndf 2.345e+04 / 92
p0 1576 ± 1.176
2200
2000
1800
1600
1400

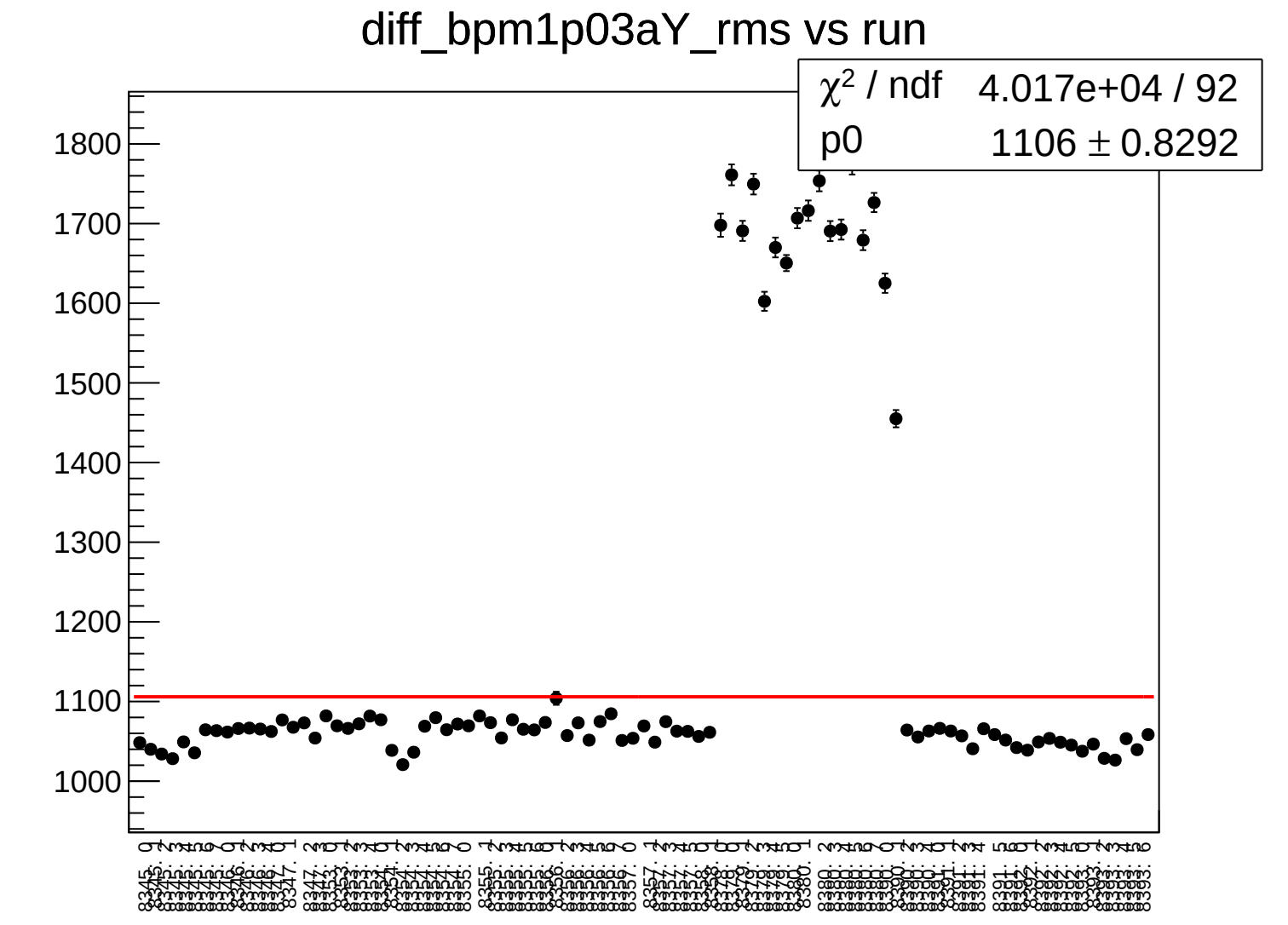

diff_bpm1p03aX_mean vs run
χ² / ndf 136 / 92
p0 −6.37 ± 1.964
100
50
0
−50
−100
pull
Entries 93
Mean 94.74
Std Dev 32.47
2
1
0
−1
−2
−3

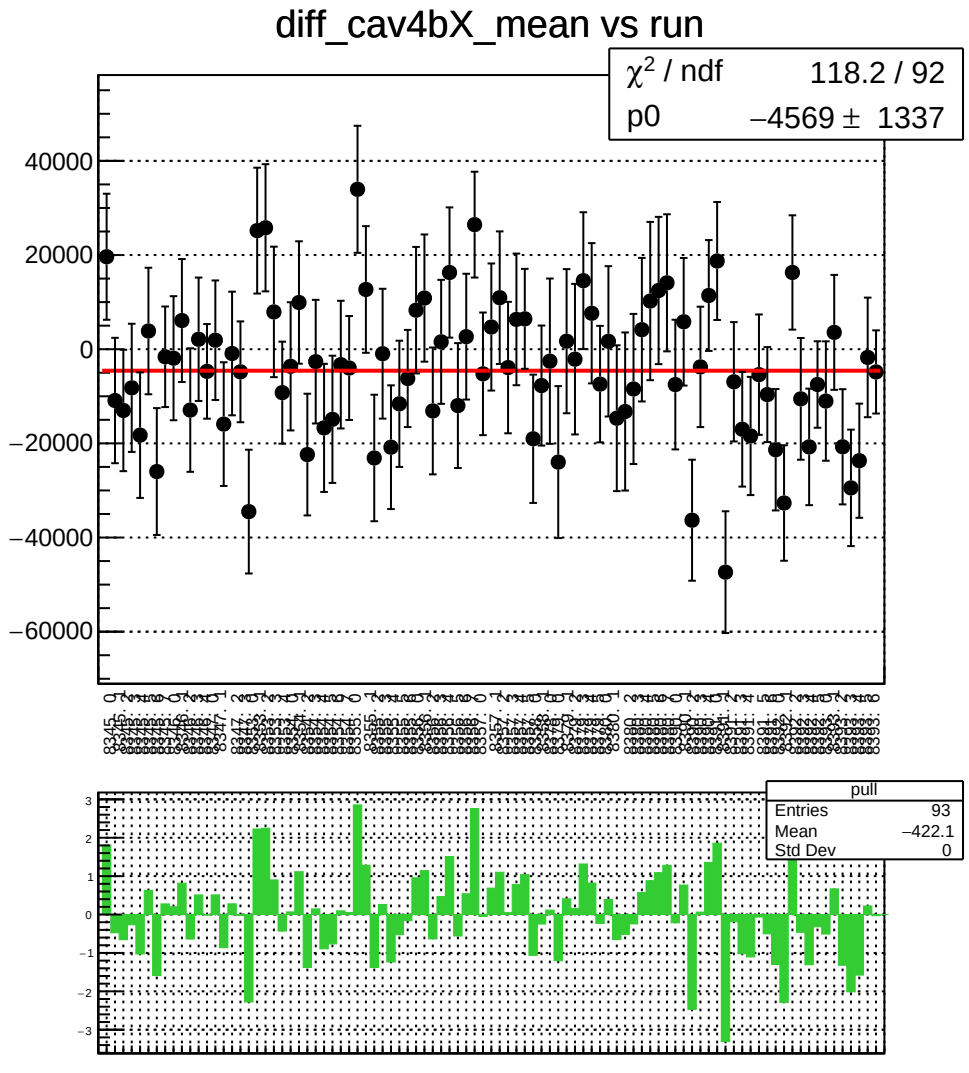

pull1D
Entries 93
Mean −0.06598
Std Dev 1.208
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

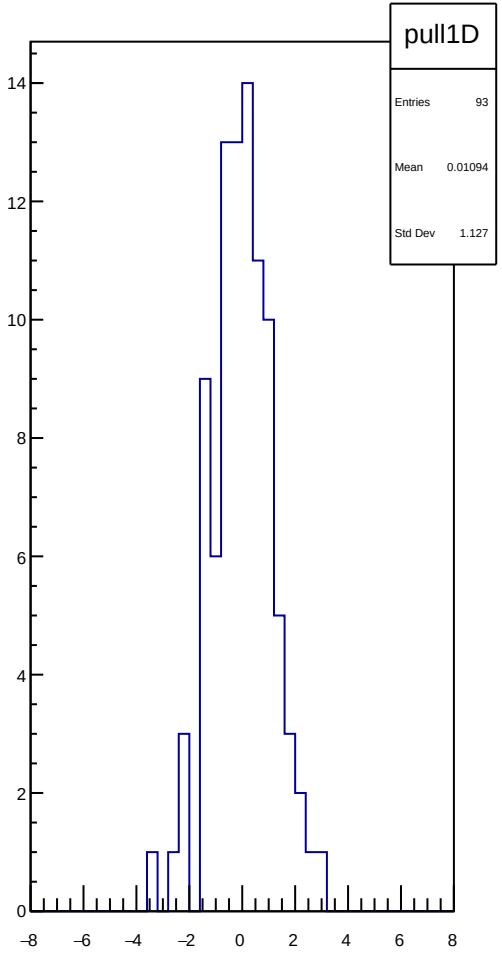

diff_bpm1p03aX_rms vs run
χ² / ndf 2.754e+05 / 92
p0 1726 ± 1.389
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000
800

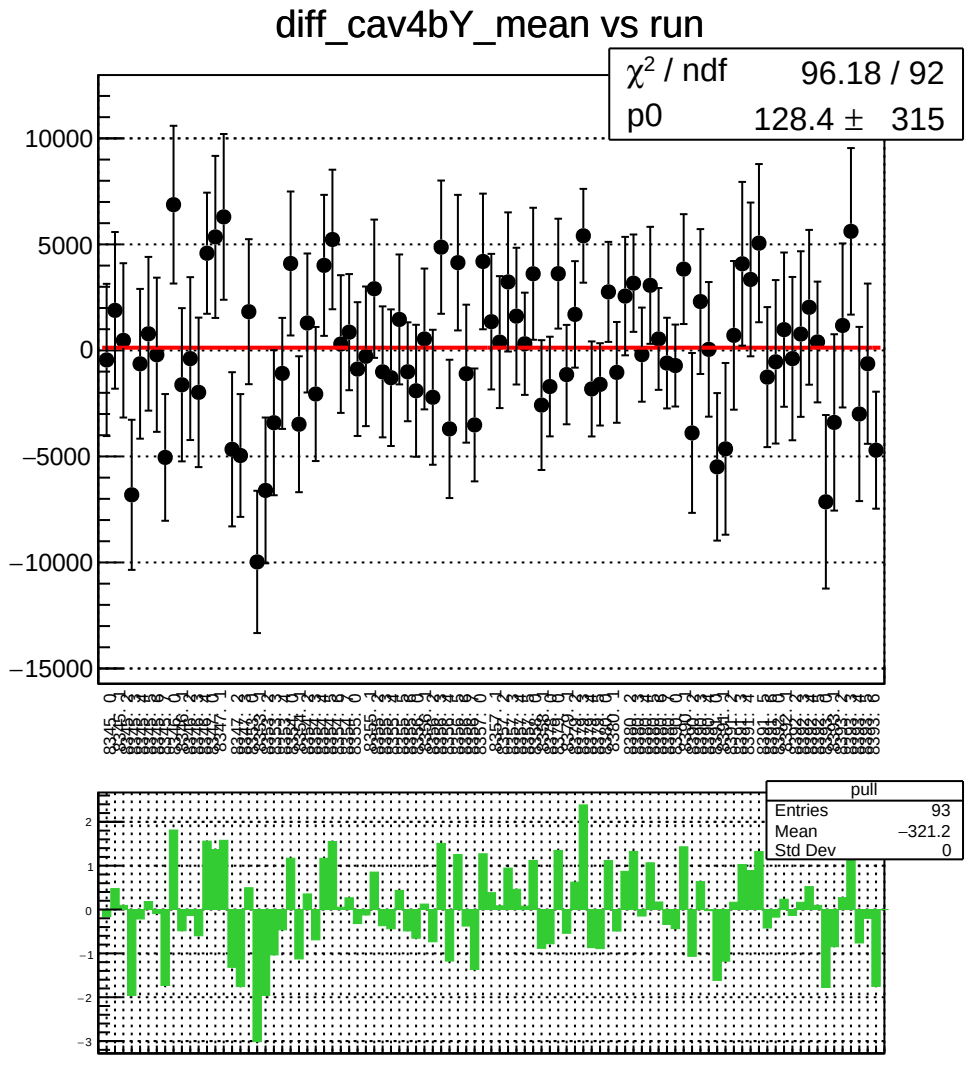

diff_bpm1p03aY_mean vs run
χ² / ndf 78.06 / 92
p0 −0.5715 ± 1.173
pull
Entries 93
Mean 325.7
Std Dev 0

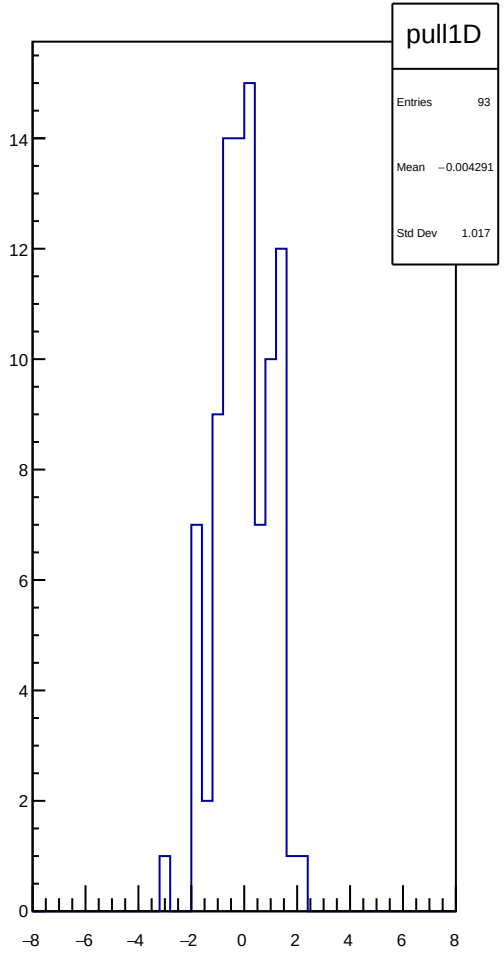

pull1D
Entries 93
Mean 0.0058
Std Dev 0.9161

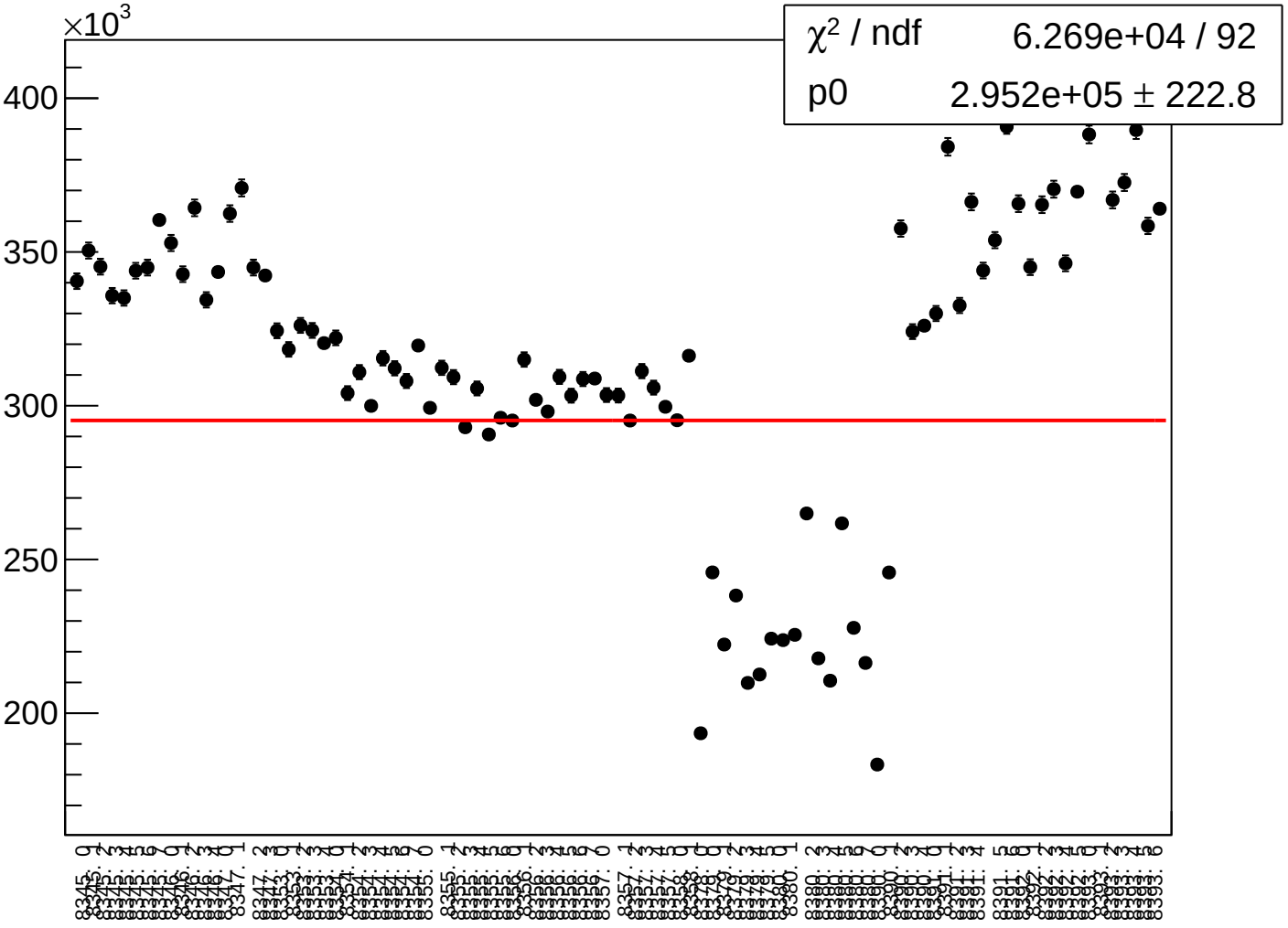

diff_bpm1p03aY_rms vs run
χ² / ndf 4.017e+04 / 92
p0 1106 ± 0.8292
1800
1700
1600
1500
1400
1300
1200
1100
1000

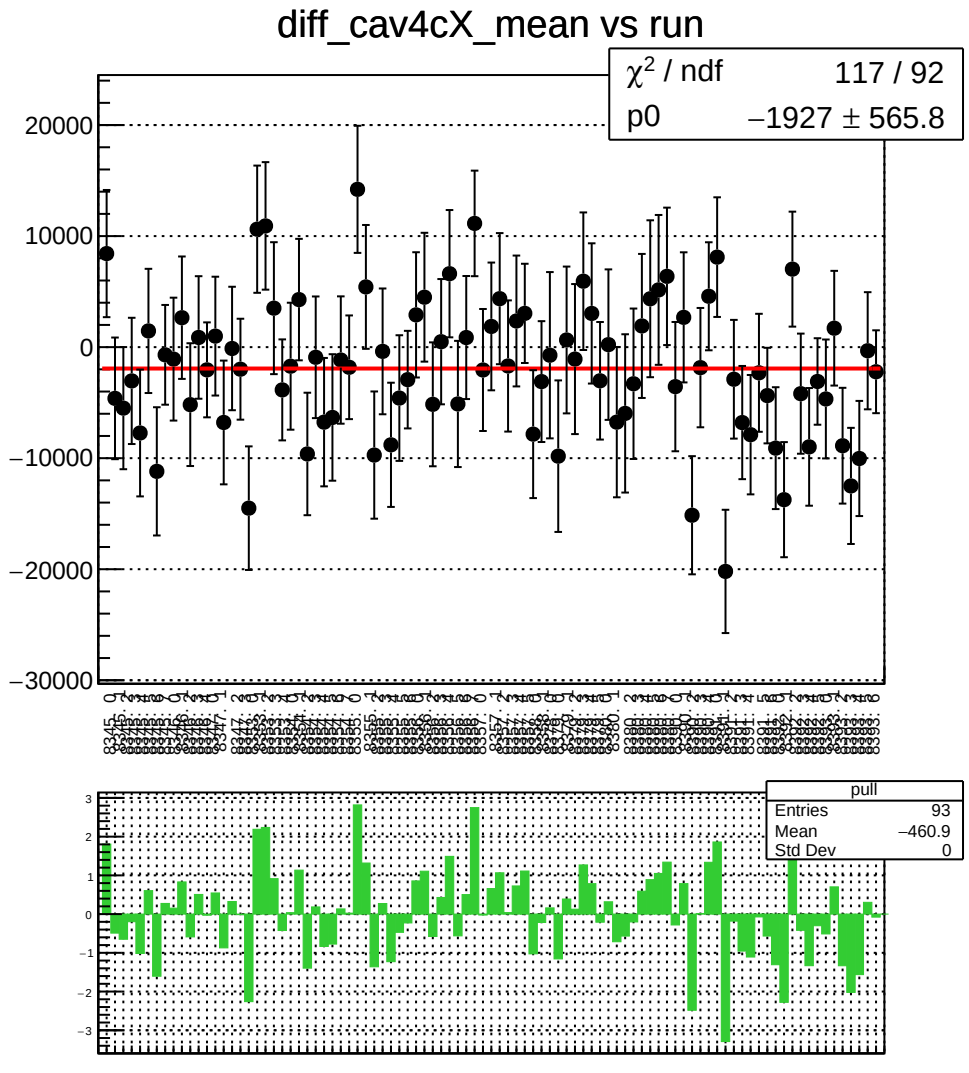

diff_cav4bX_mean vs run
χ² / ndf 118.2 / 92
p0 −4569 ± 1337
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −422.1
Std Dev 0
3
2
1
0
−1
−2
−3

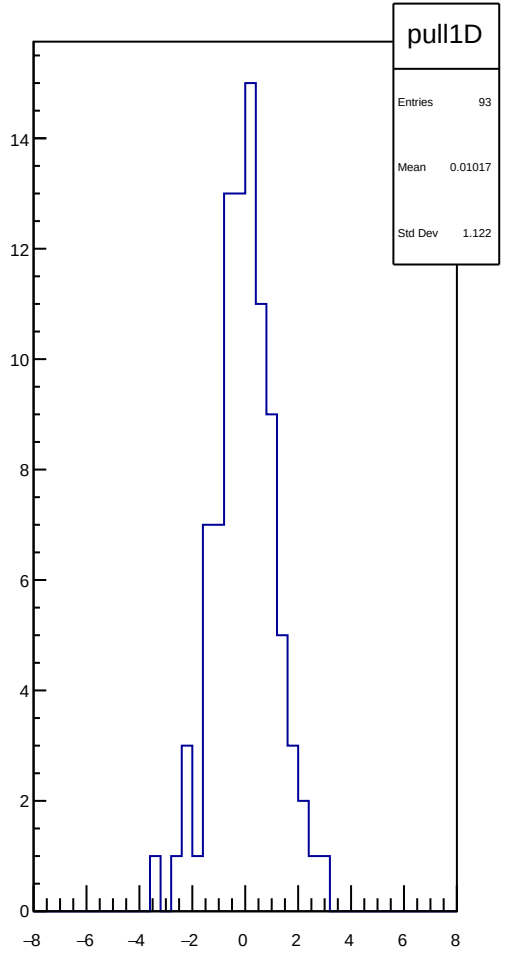

pull1D
Entries 93
Mean 0.01094
Std Dev 1.127
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

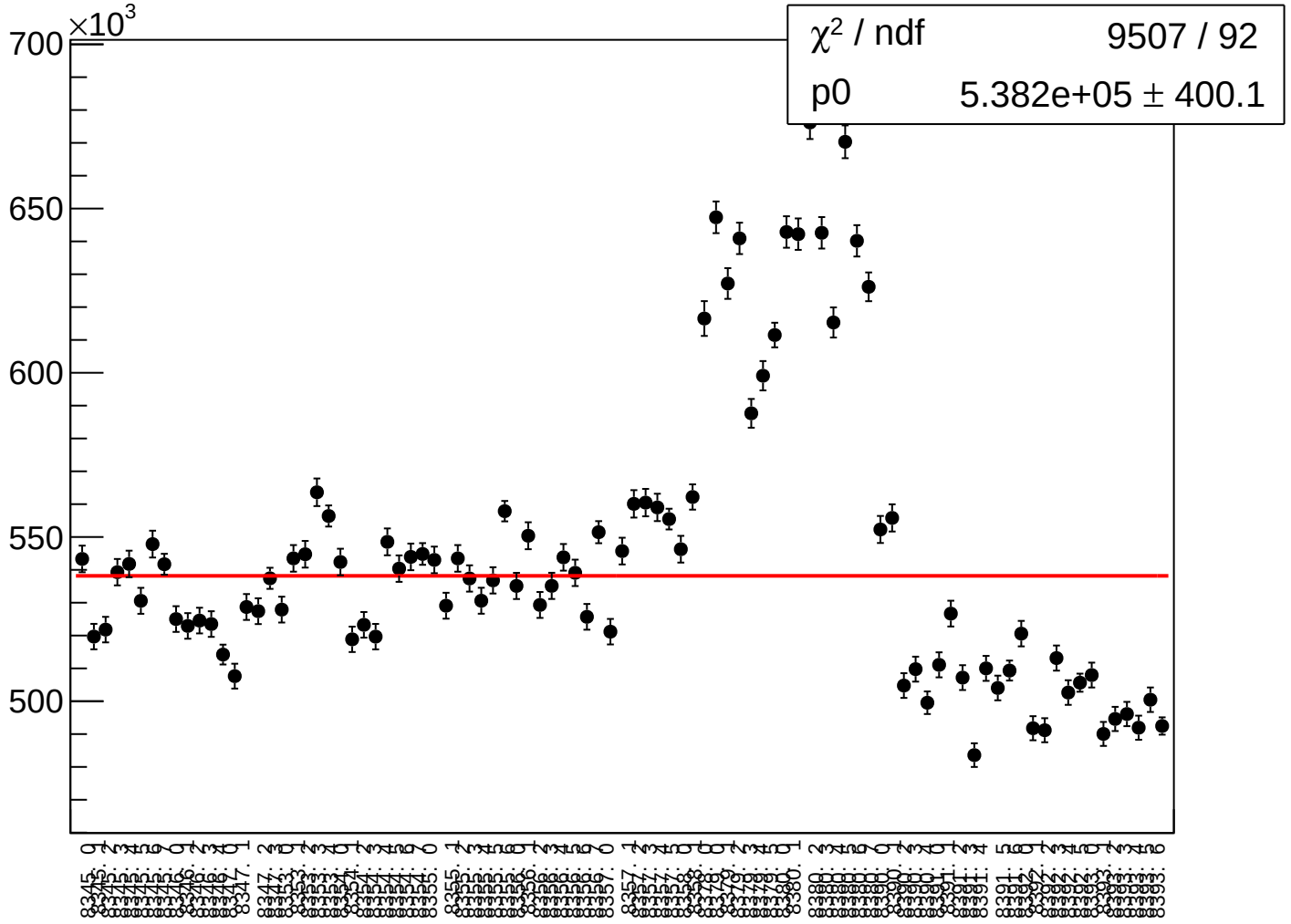

diff_cav4bY_mean vs run
χ² / ndf 96.18 / 92
p0 128.4 ± 315
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −321.2
Std Dev 0
2
1
0
−1
−2
−3

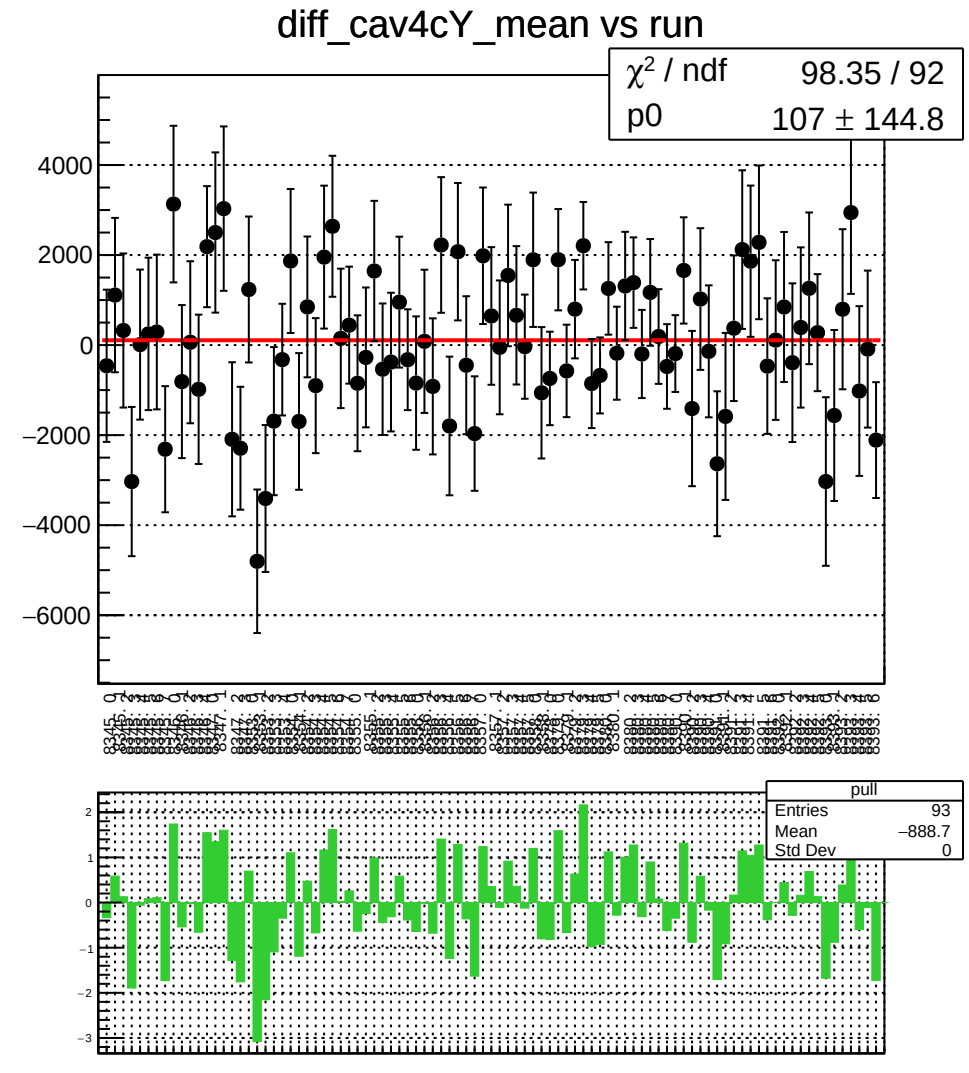

pull1D
Entries 93
Mean −0.004291
Std Dev 1.017
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

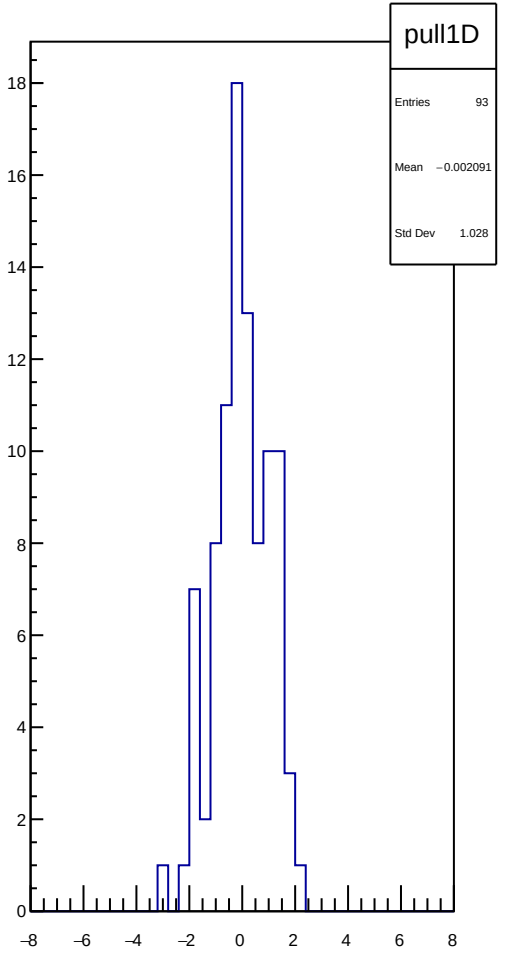

diff_cav4bY_rms vs run
×10^3
400
350
300
250
200
χ² / ndf 6.269e+04 / 92
p0 2.952e+05 ± 222.8

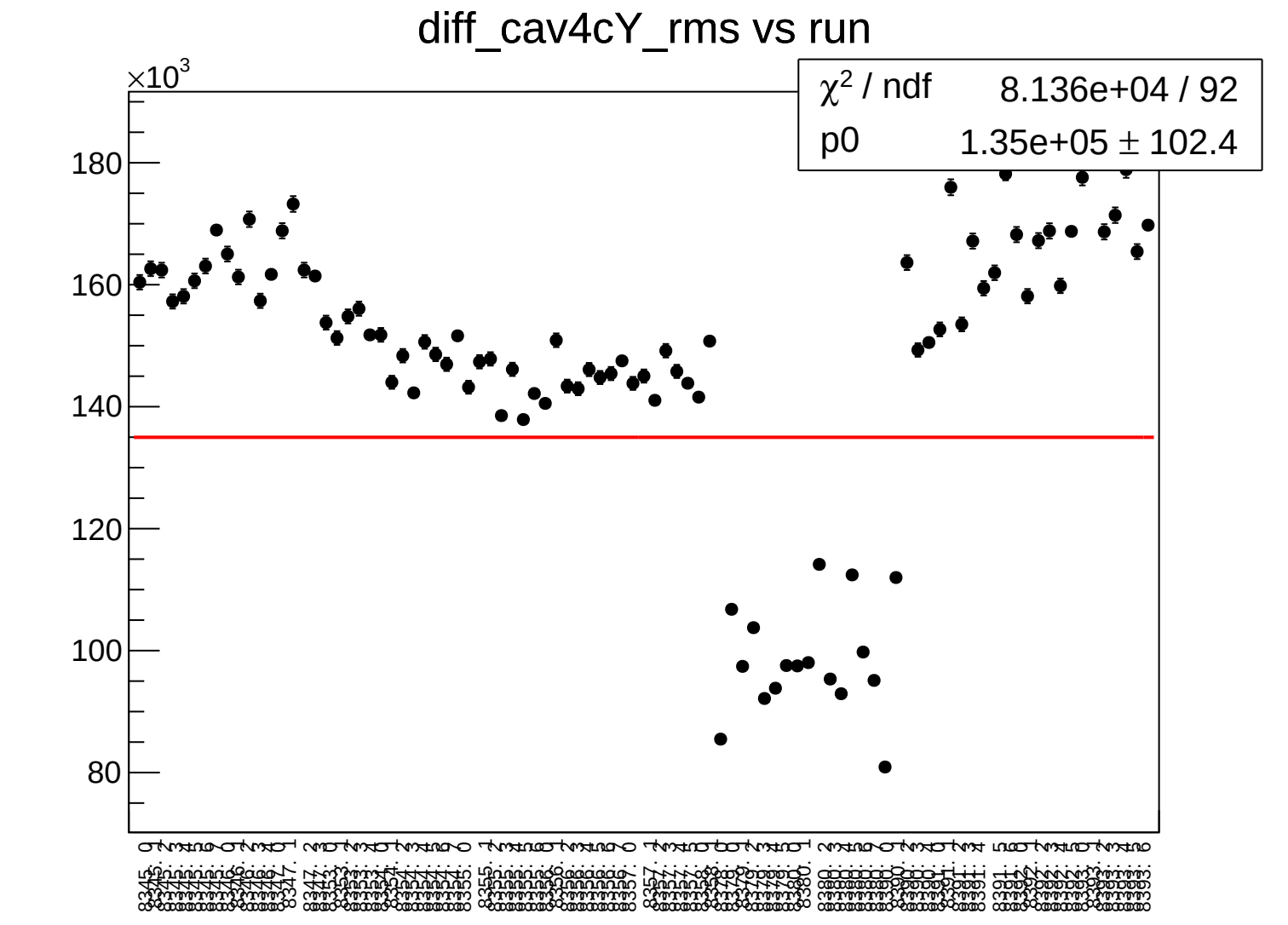

diff_cav4cX_mean vs run
χ² / ndf 117 / 92
p0 −1927 ± 565.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −460.9
Std Dev 0
3
2
1
0
−1
−2
−3

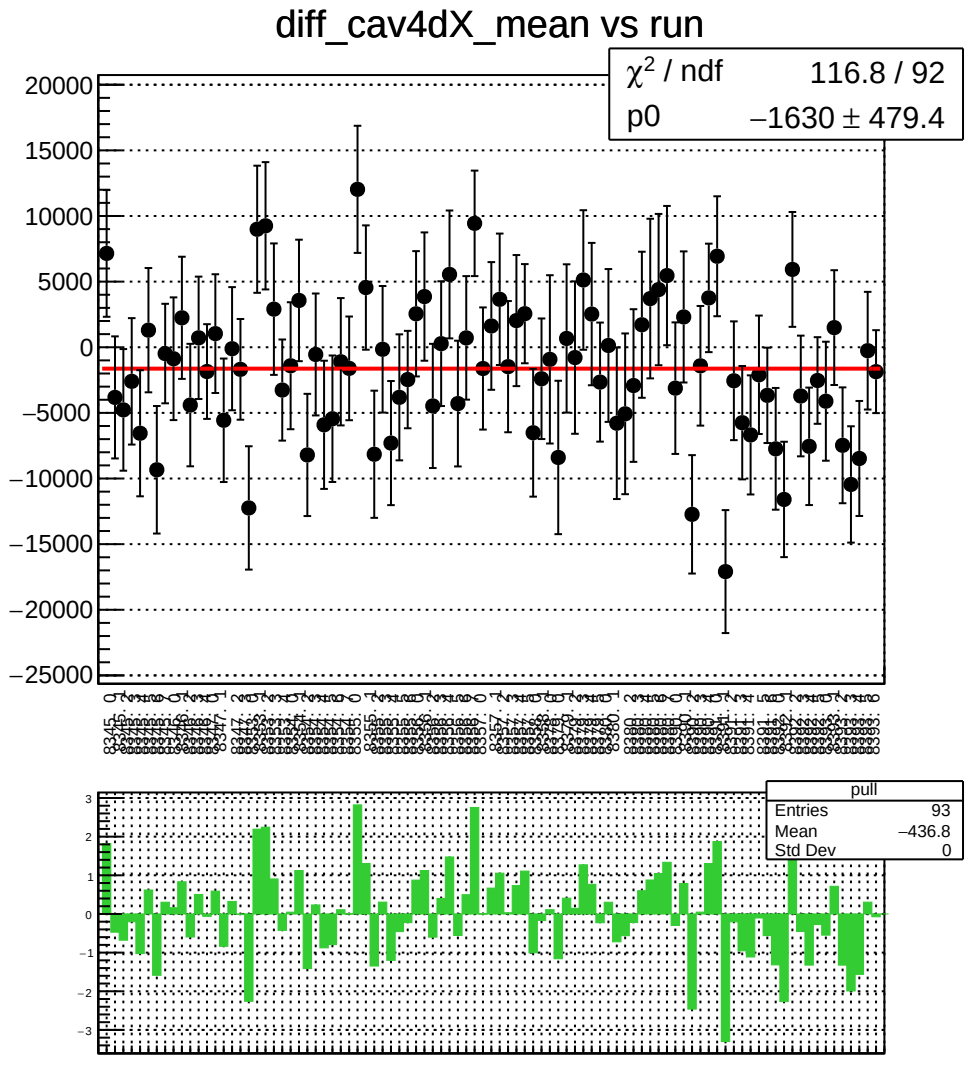

pull1D
Entries 93
Mean 0.01017
Std Dev 1.122
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

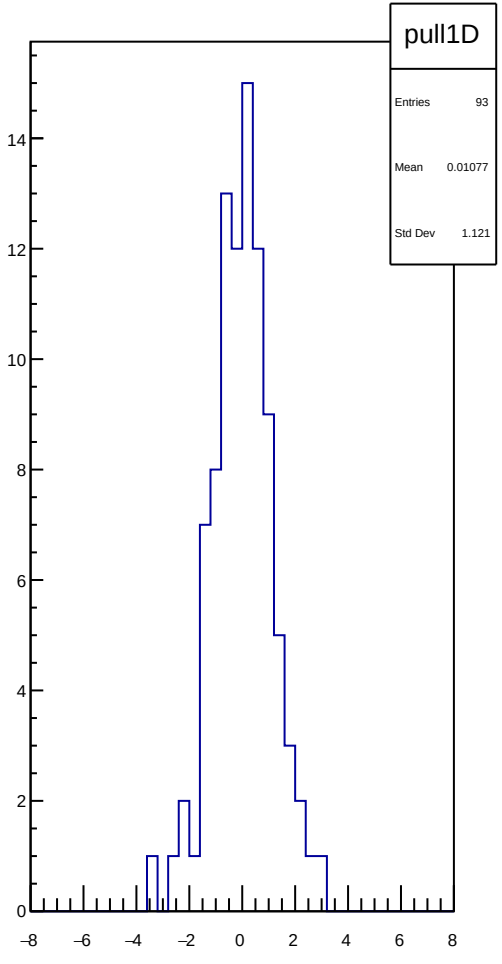

diff_cav4cX_rms vs run
×10^3
700
650
600
550
500
χ² / ndf 9507 / 92
p0 5.382e+05 ± 400.1

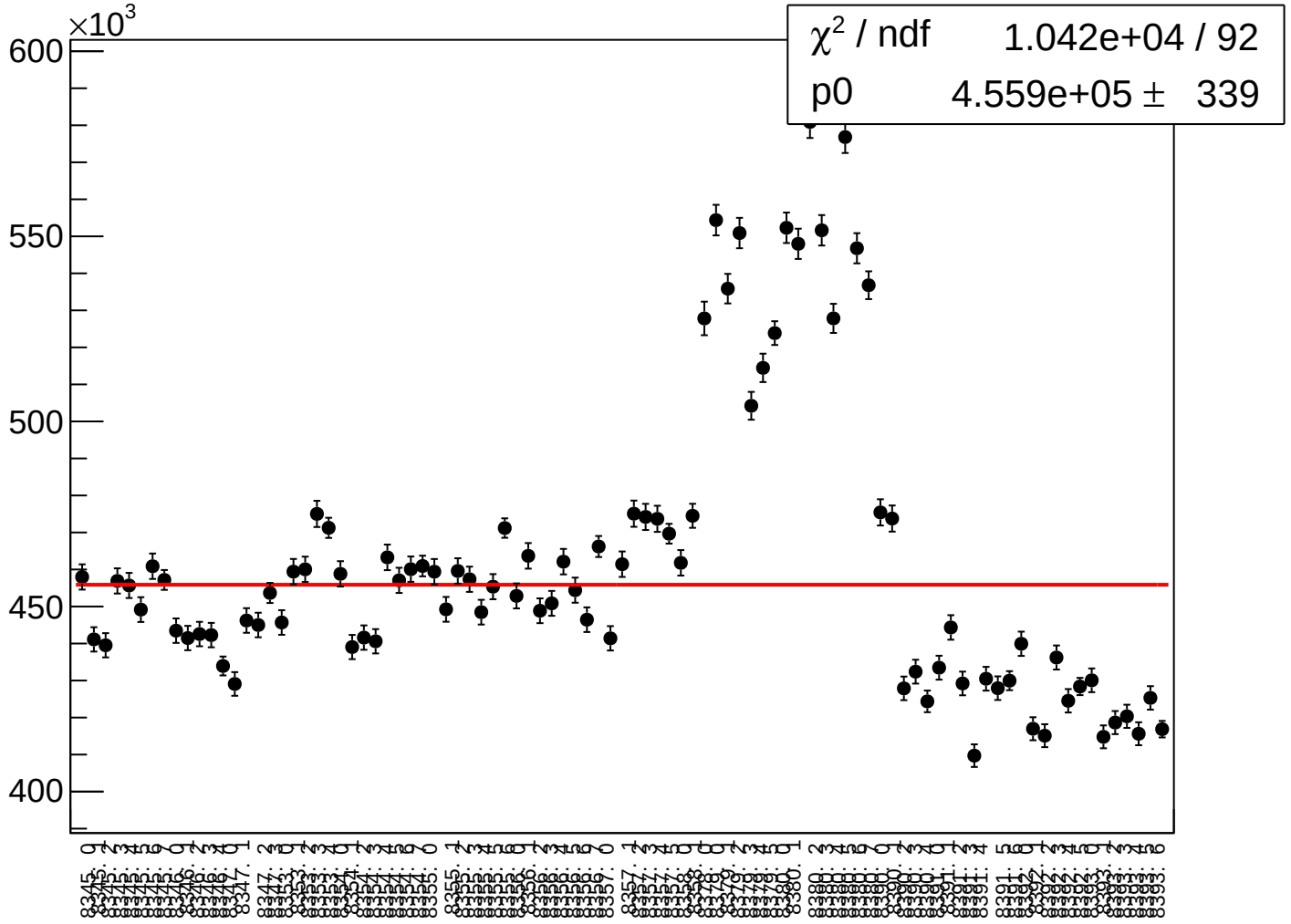

diff_cav4cY_mean vs run
χ² / ndf 98.35 / 92
p0 107 ± 144.8
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean −888.7
Std Dev 0
2
1
0
−1
−2
−3

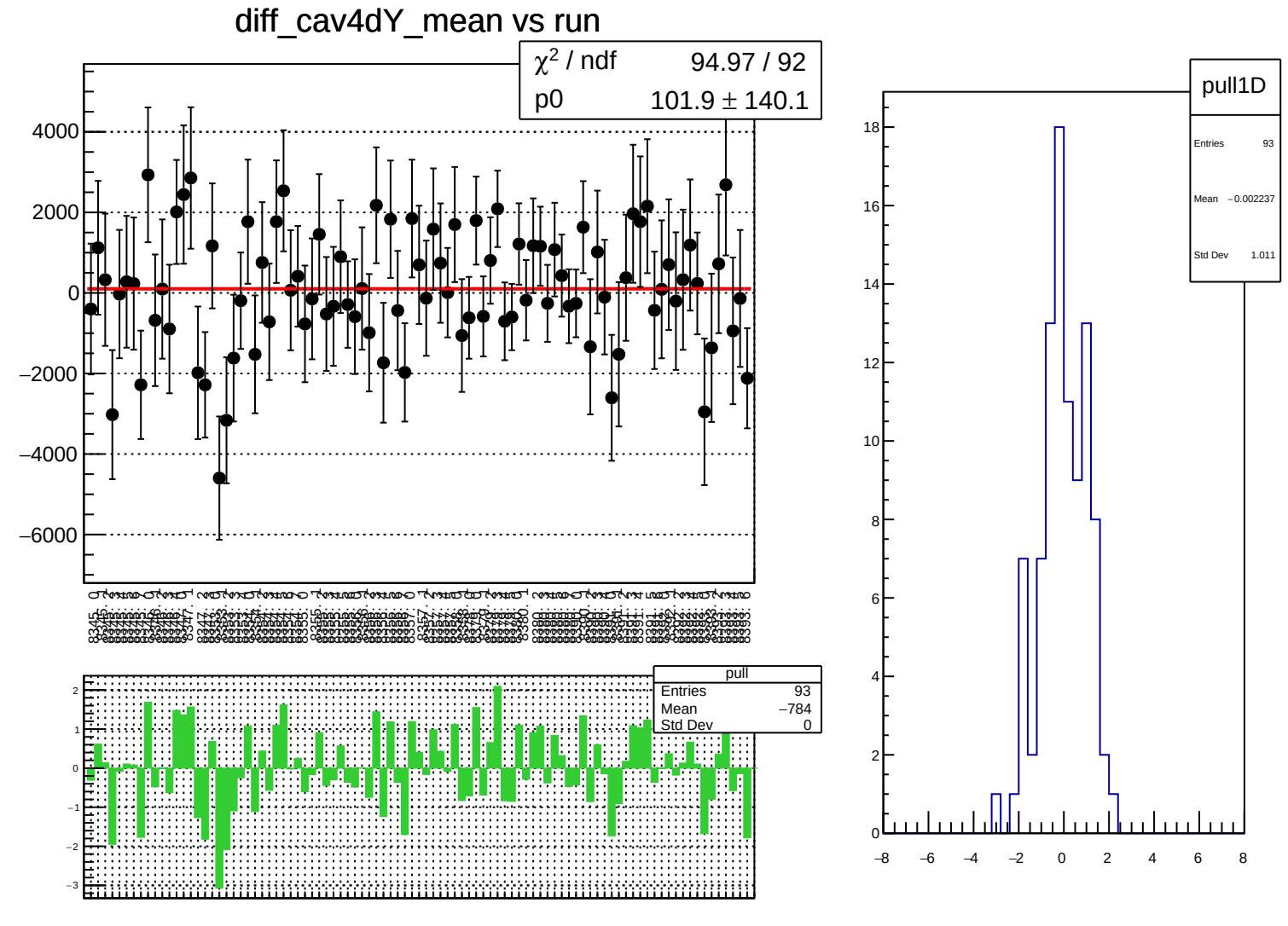

pull1D
Entries 93
Mean −0.002091
Std Dev 1.028
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

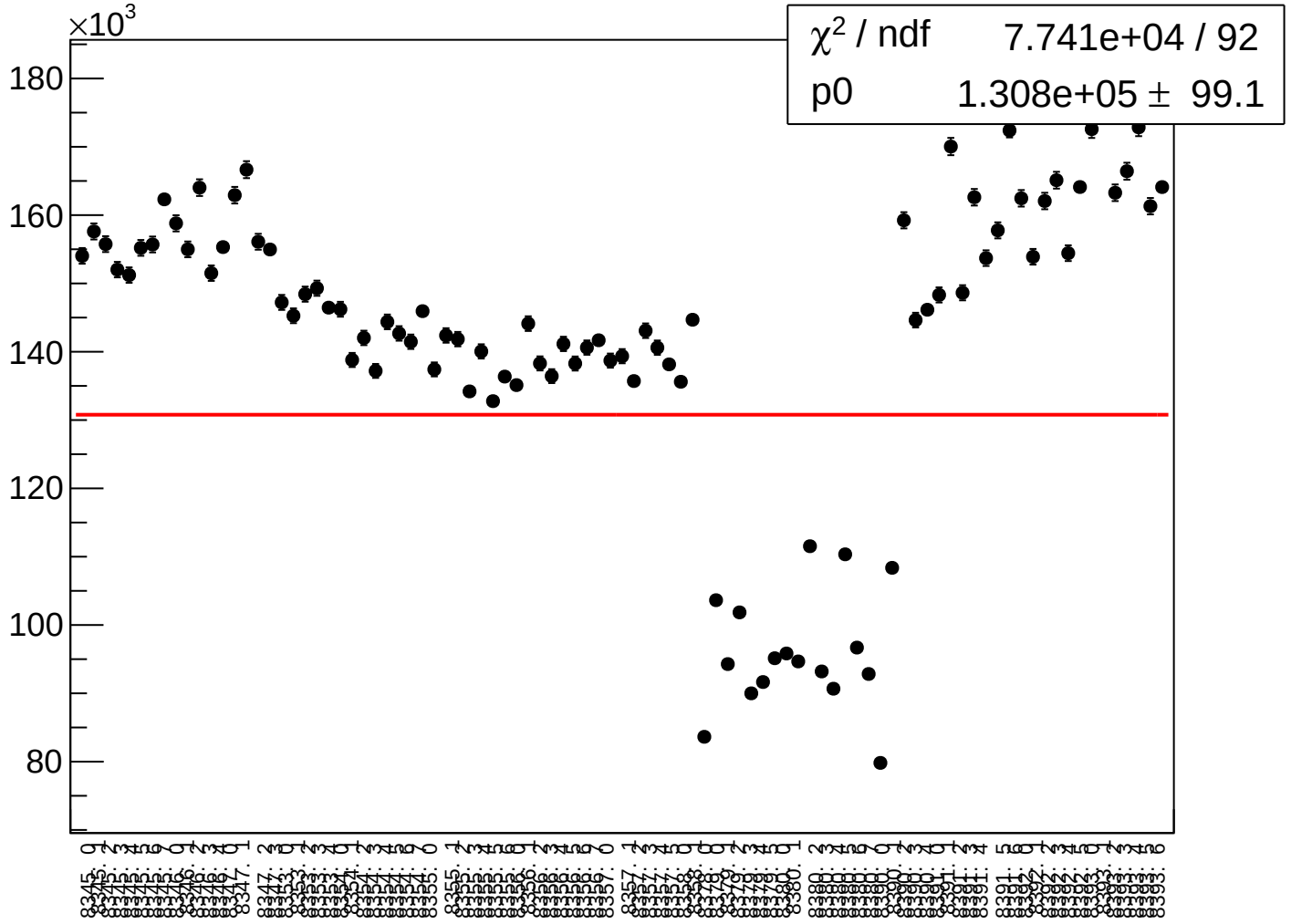

diff_cav4cY_rms vs run
×10^3
χ^2 / ndf 8.136e+04 / 92
p0 1.35e+05 ± 102.4
180
160
140
120
100
80

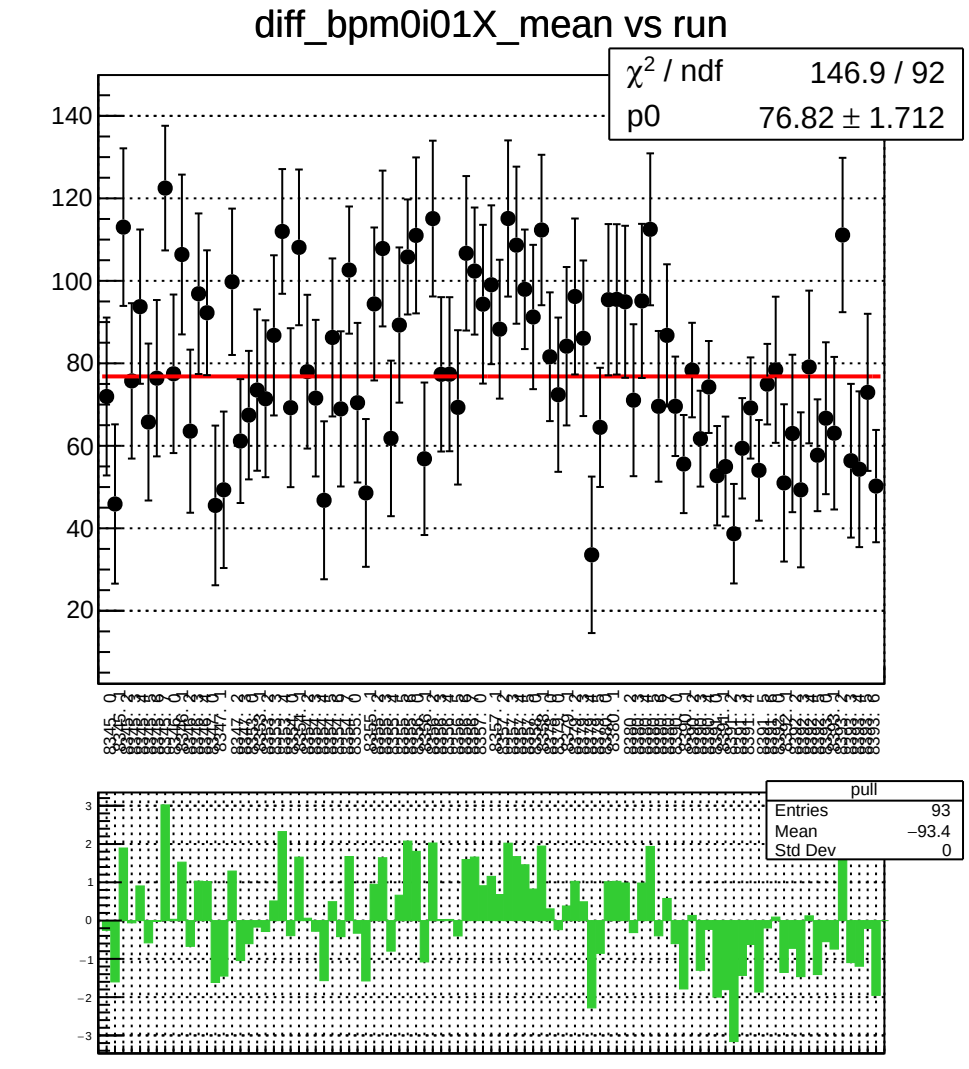

diff_cav4dX_mean vs run
χ² / ndf 116.8 / 92
p0 −1630 ± 479.4
pull
Entries 93
Mean −436.8
Std Dev 0

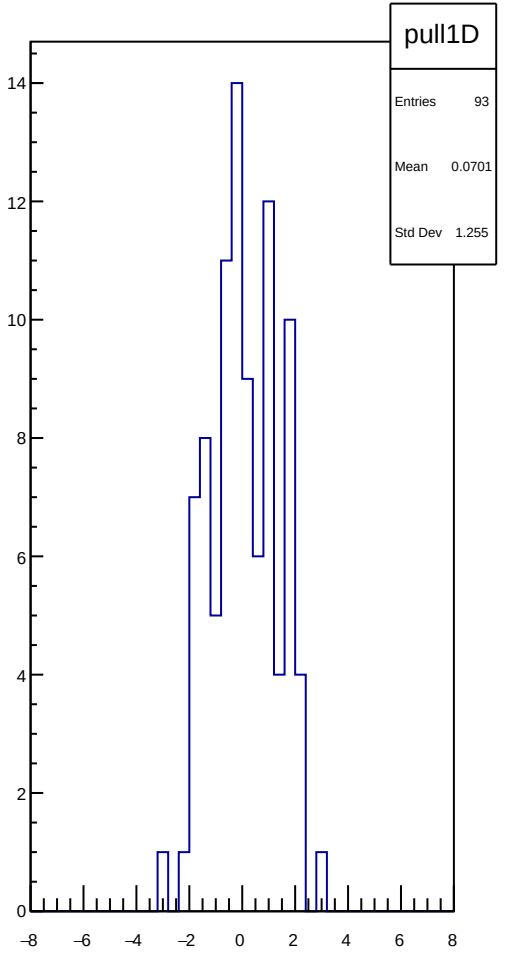

pull1D
Entries 93
Mean 0.01077
Std Dev 1.121

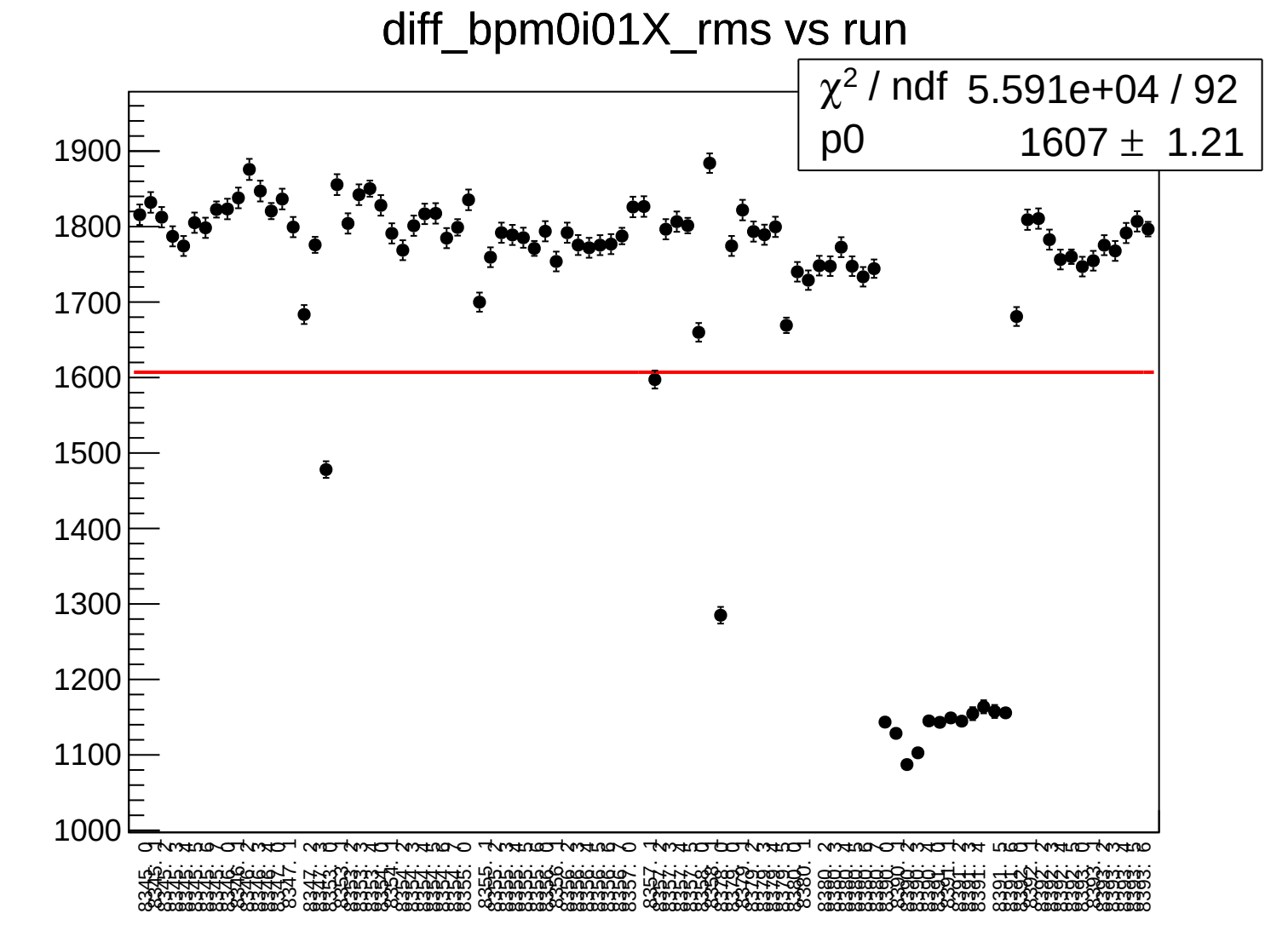

diff_cav4dX_rms vs run
×10^3
600
550
500
450
400
χ² / ndf 1.042e+04 / 92
p0 4.559e+05 ± 339

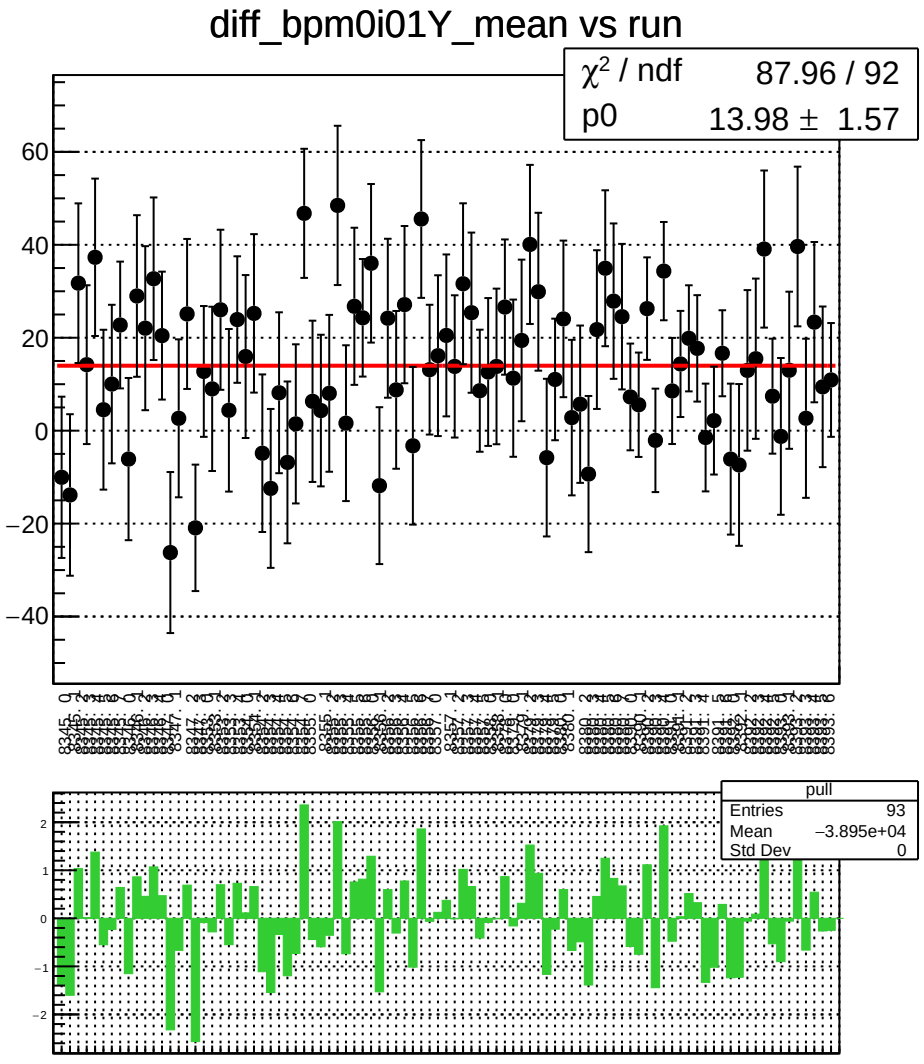

diff_cav4dY_mean vs run
χ² / ndf 94.97 / 92
p0 101.9 ± 140.1
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean −784
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.002237
Std Dev 1.011
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

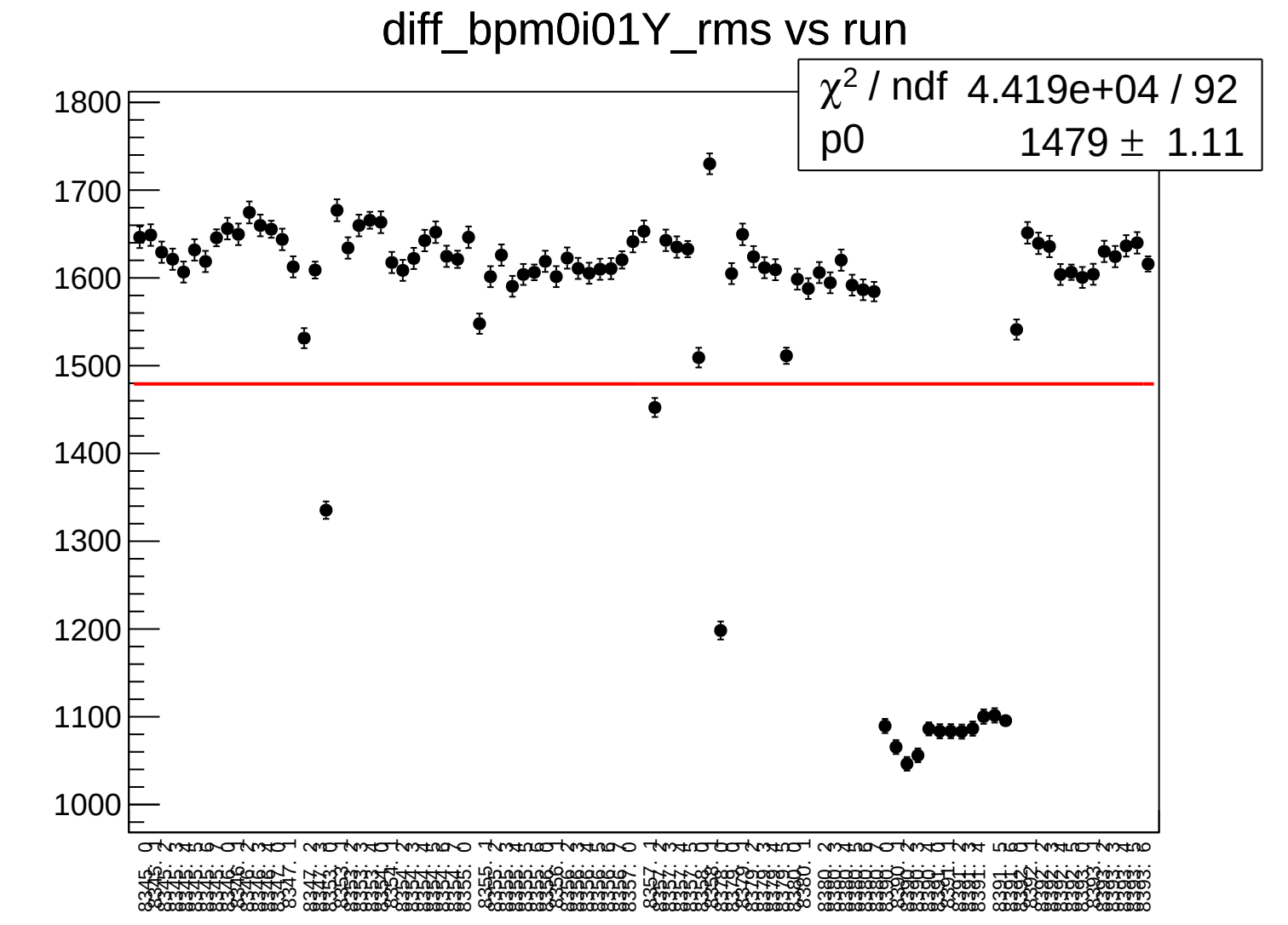

diff_cav4dY_rms vs run
×10^3
χ^2 / ndf 7.741e+04 / 92
p0 1.308e+05 ± 99.1
180
160
140
120
100
80

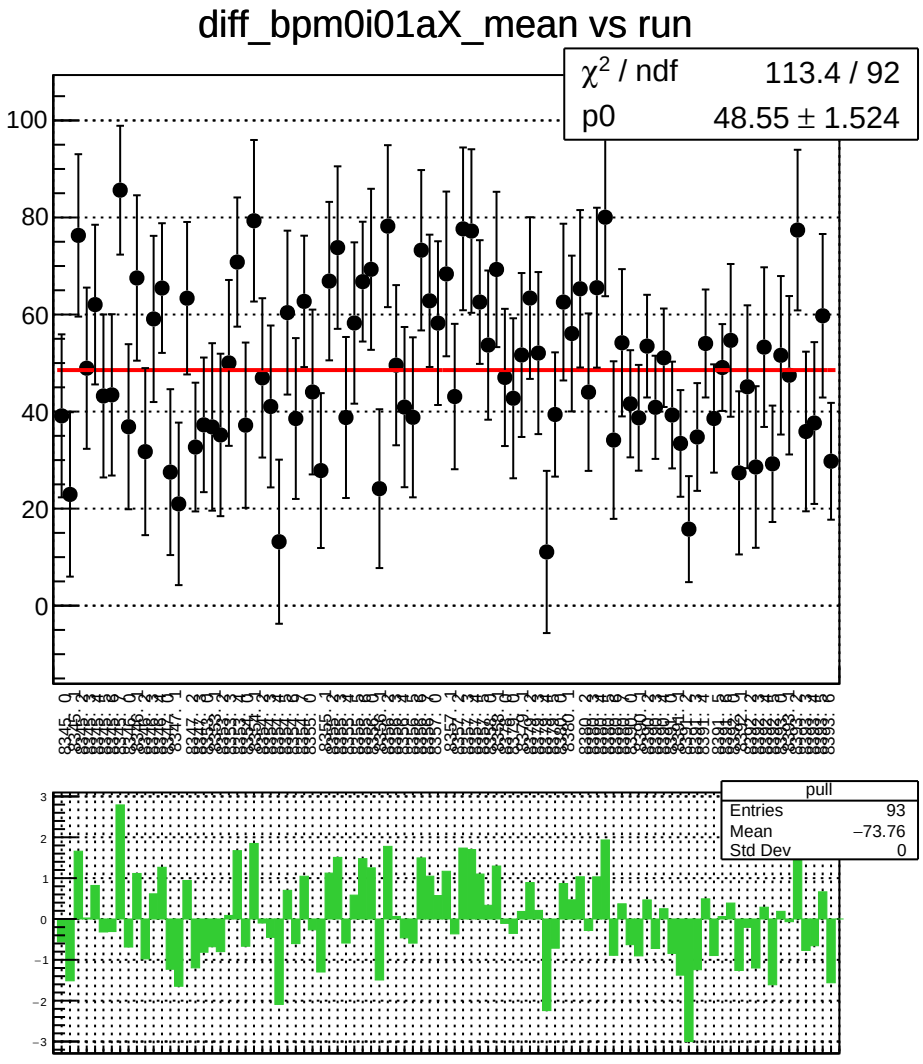

diff_bpm0i01X_mean vs run
χ² / ndf 146.9 / 92
p0 76.82 ± 1.712
pull
Entries 93
Mean −93.4
Std Dev 0

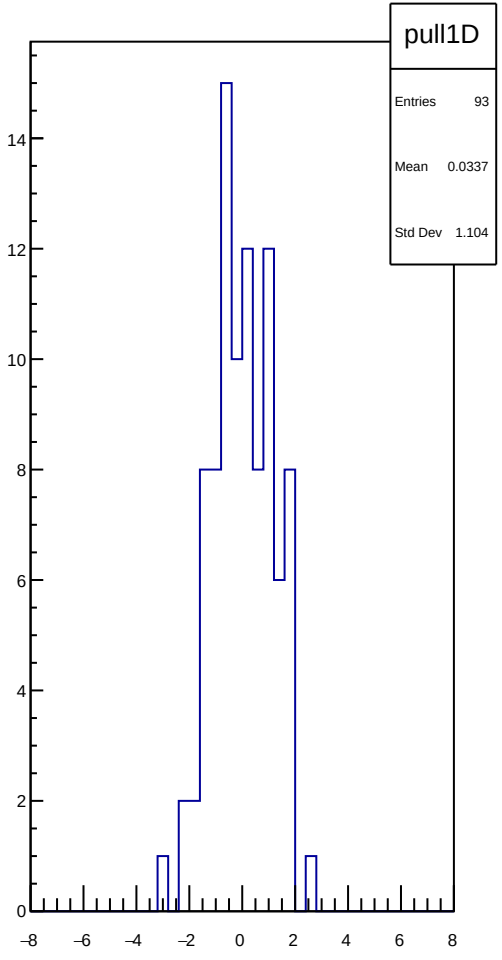

pull1D
Entries 93
Mean 0.0701
Std Dev 1.255

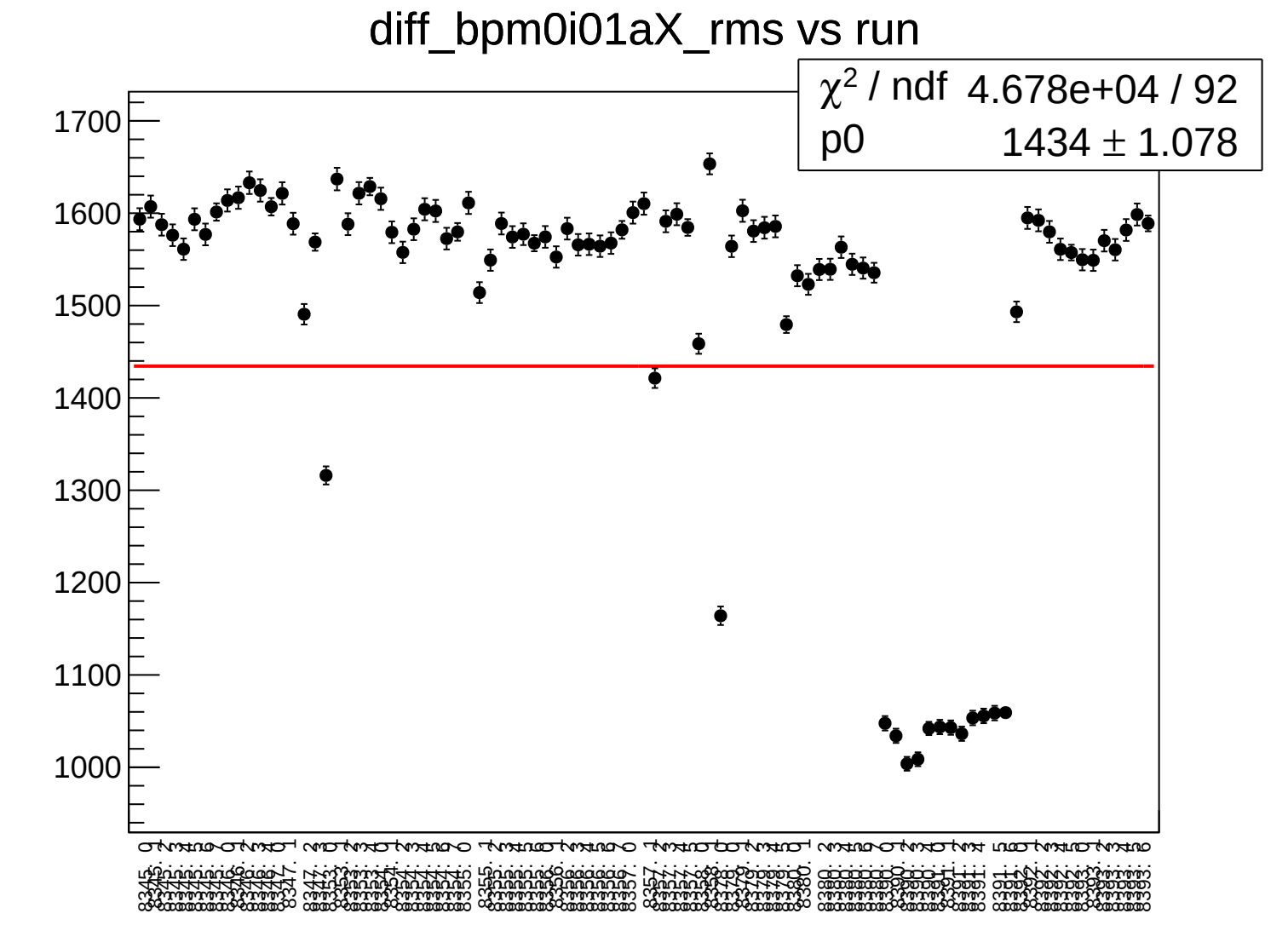

diff_bpm0i01X_rms vs run
χ² / ndf 5.591e+04 / 92
p0 1607 ± 1.21
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000

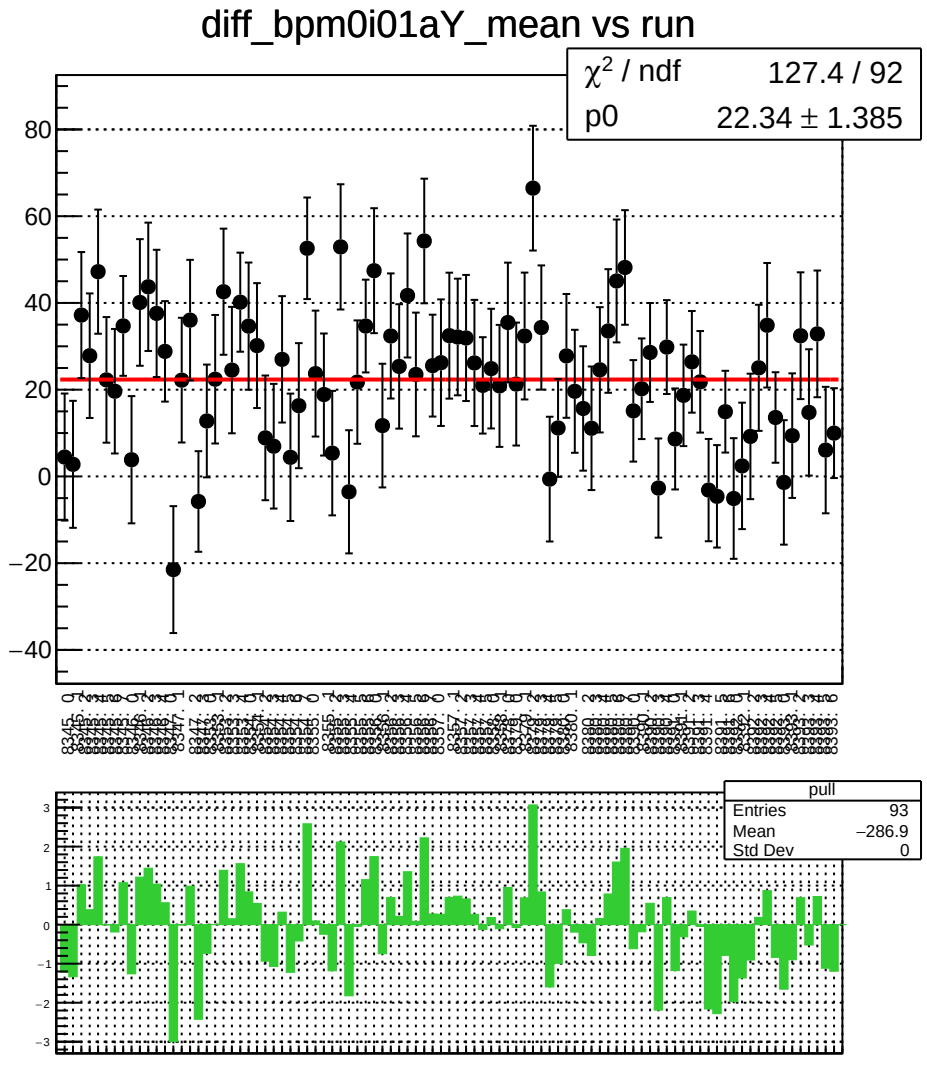

diff_bpm0i01Y_mean vs run
χ² / ndf 87.96 / 92
p0 13.98 ± 1.57
pull
Entries 93
Mean −3.895e+04
Std Dev 0
pull1D
Entries 93
Mean −2.705e−05
Std Dev 0.9725

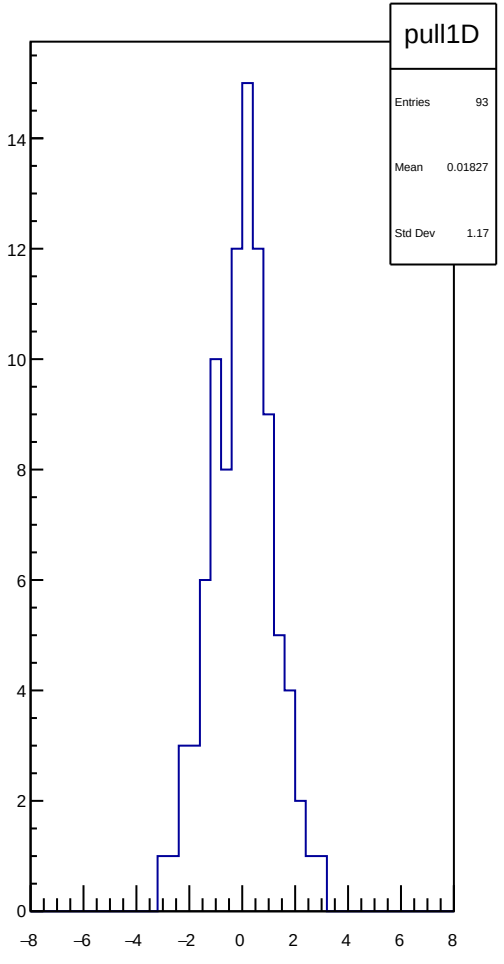

diff_bpm0i01Y_rms vs run
χ² / ndf 4.419e+04 / 92
p0 1479 ± 1.11
1800
1700
1600
1500
1400
1300
1200
1100
1000

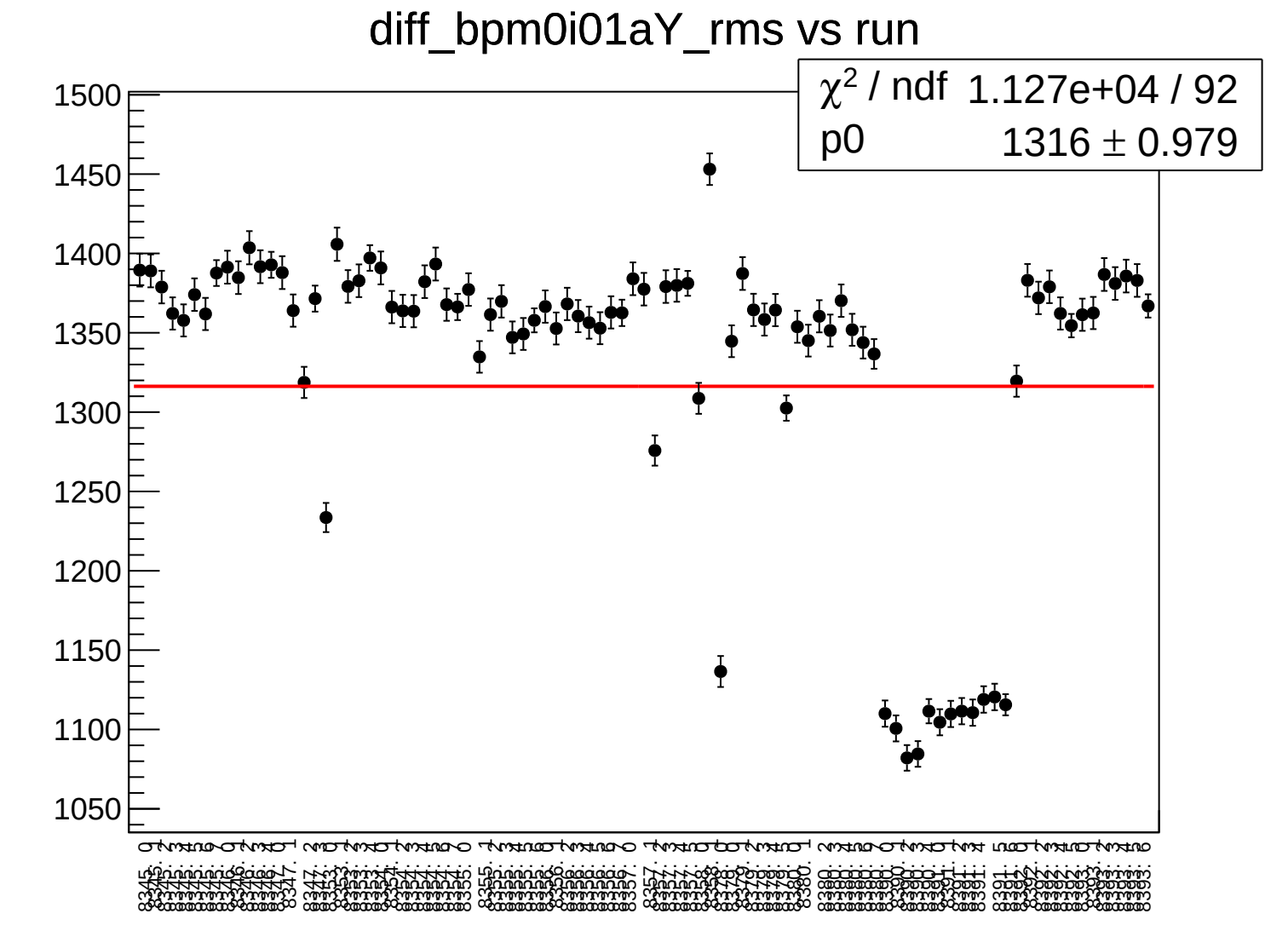

diff_bpm0i01aX_mean vs run
χ² / ndf 113.4 / 92
p0 48.55 ± 1.524
pull
Entries 93
Mean −73.76
Std Dev 0

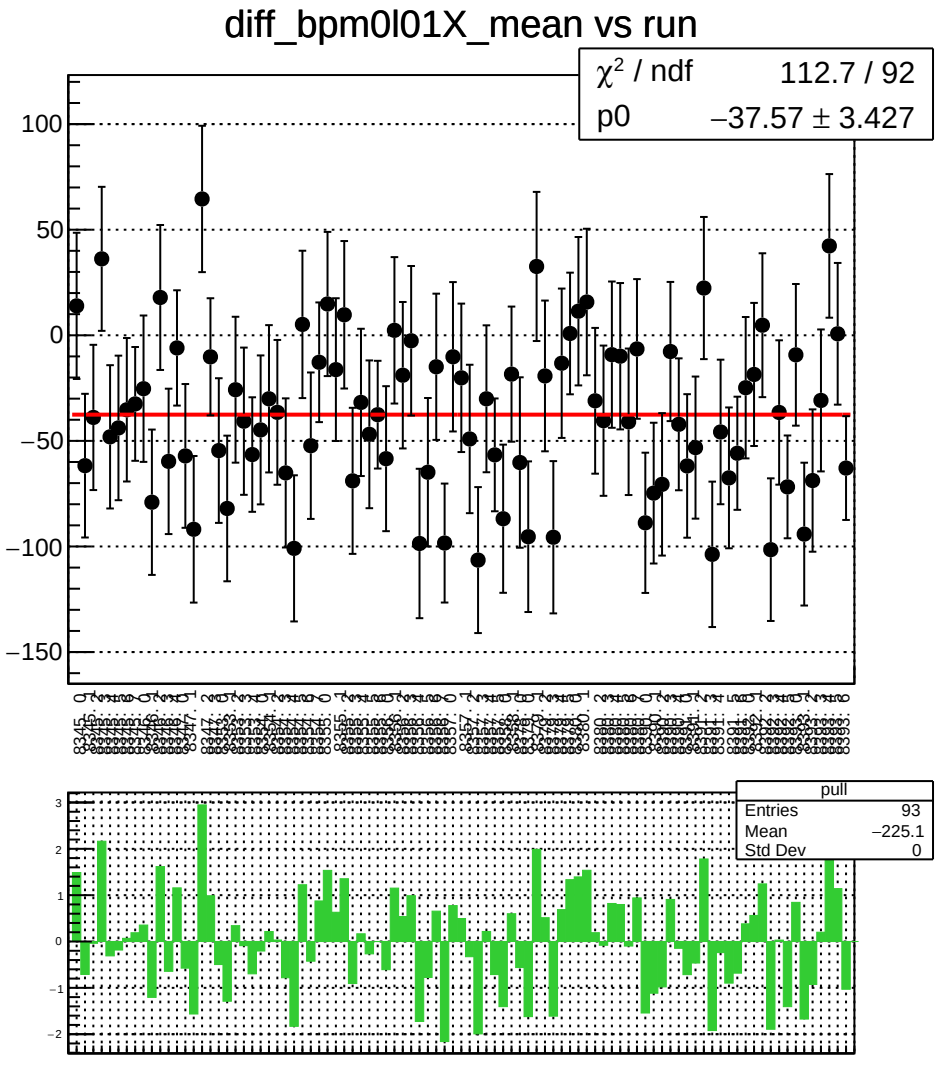

pull1D
Entries 93
Mean 0.0337
Std Dev 1.104

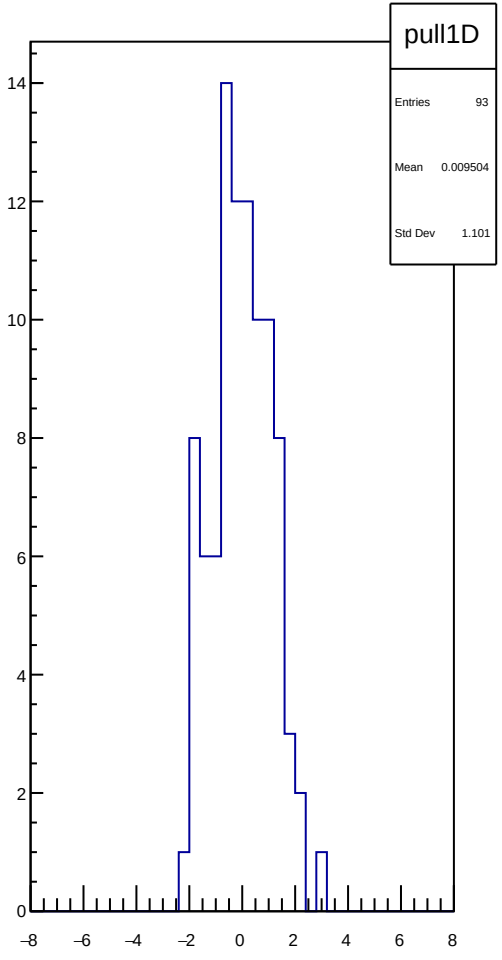

diff_bpm0i01aX_rms vs run
χ² / ndf 4.678e+04 / 92
p0 1434 ± 1.078
1700
1600
1500
1400
1300
1200
1100
1000

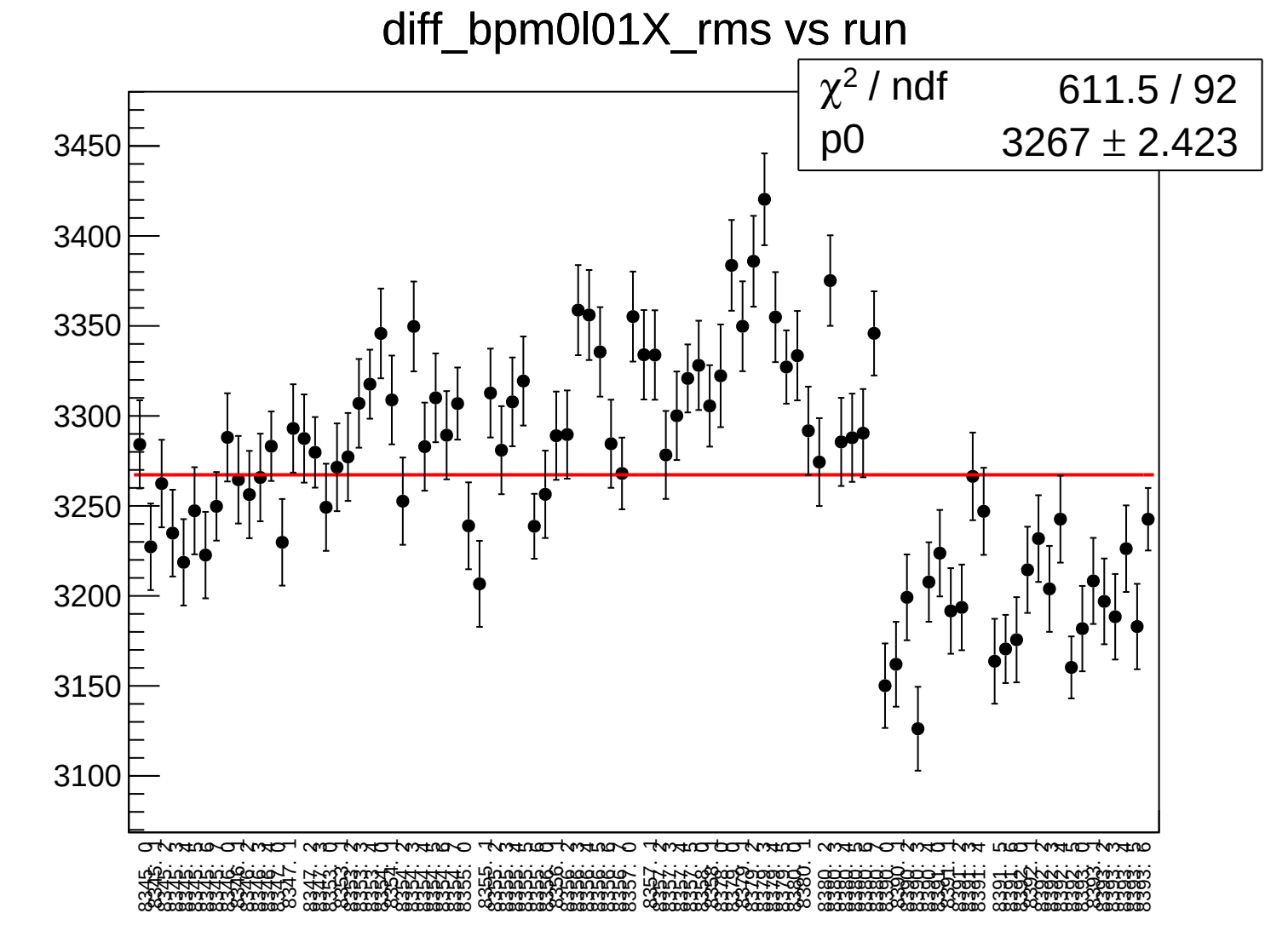

diff_bpm0i01aY_mean vs run
χ² / ndf 127.4 / 92
p0 22.34 ± 1.385
pull
Entries 93
Mean −286.9
Std Dev 0

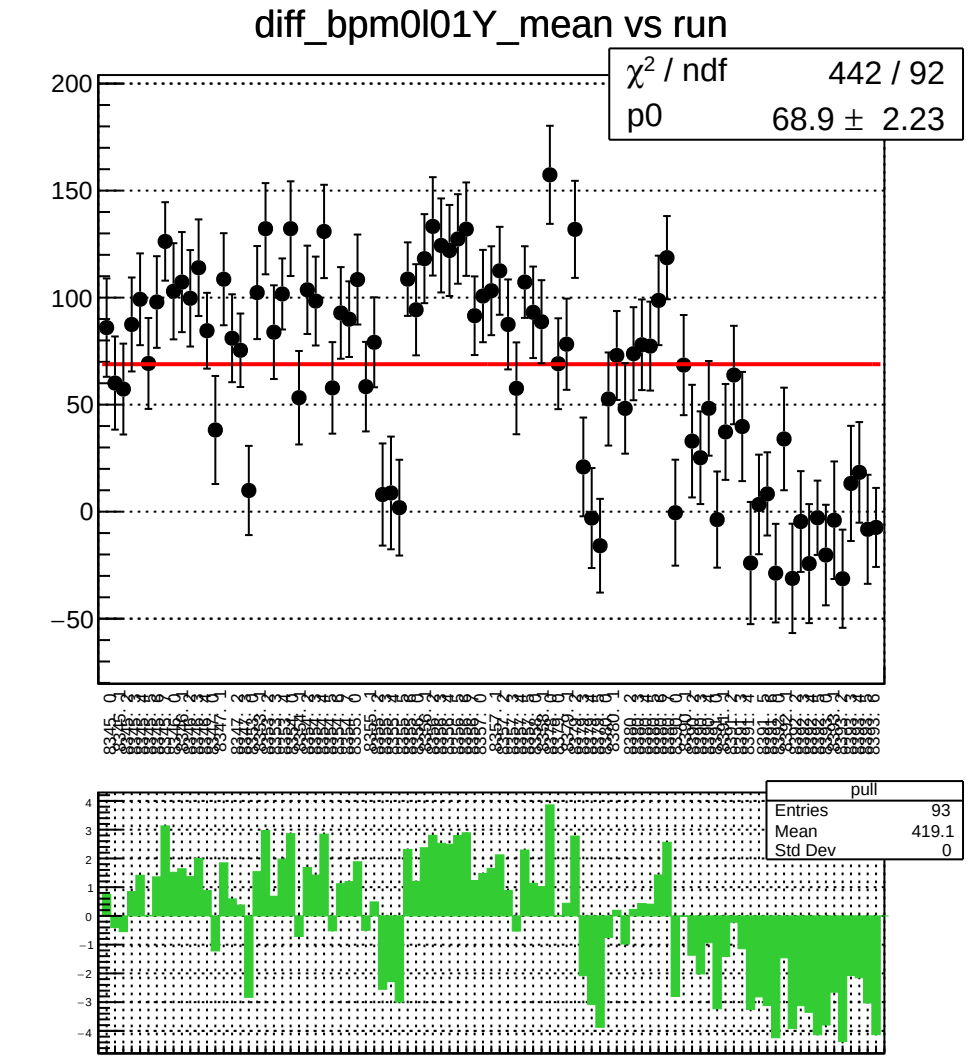

pull1D
Entries 93
Mean 0.01827
Std Dev 1.17

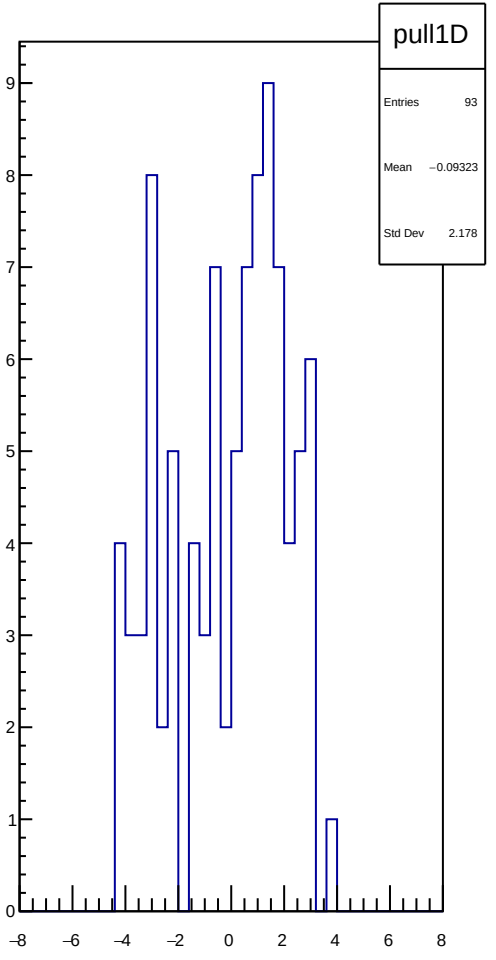

diff_bpm0i01aY_rms vs run
χ² / ndf 1.127e+04 / 92
p0 1316 ± 0.979
1500
1450
1400
1350
1300
1250
1200
1150
1100
1050

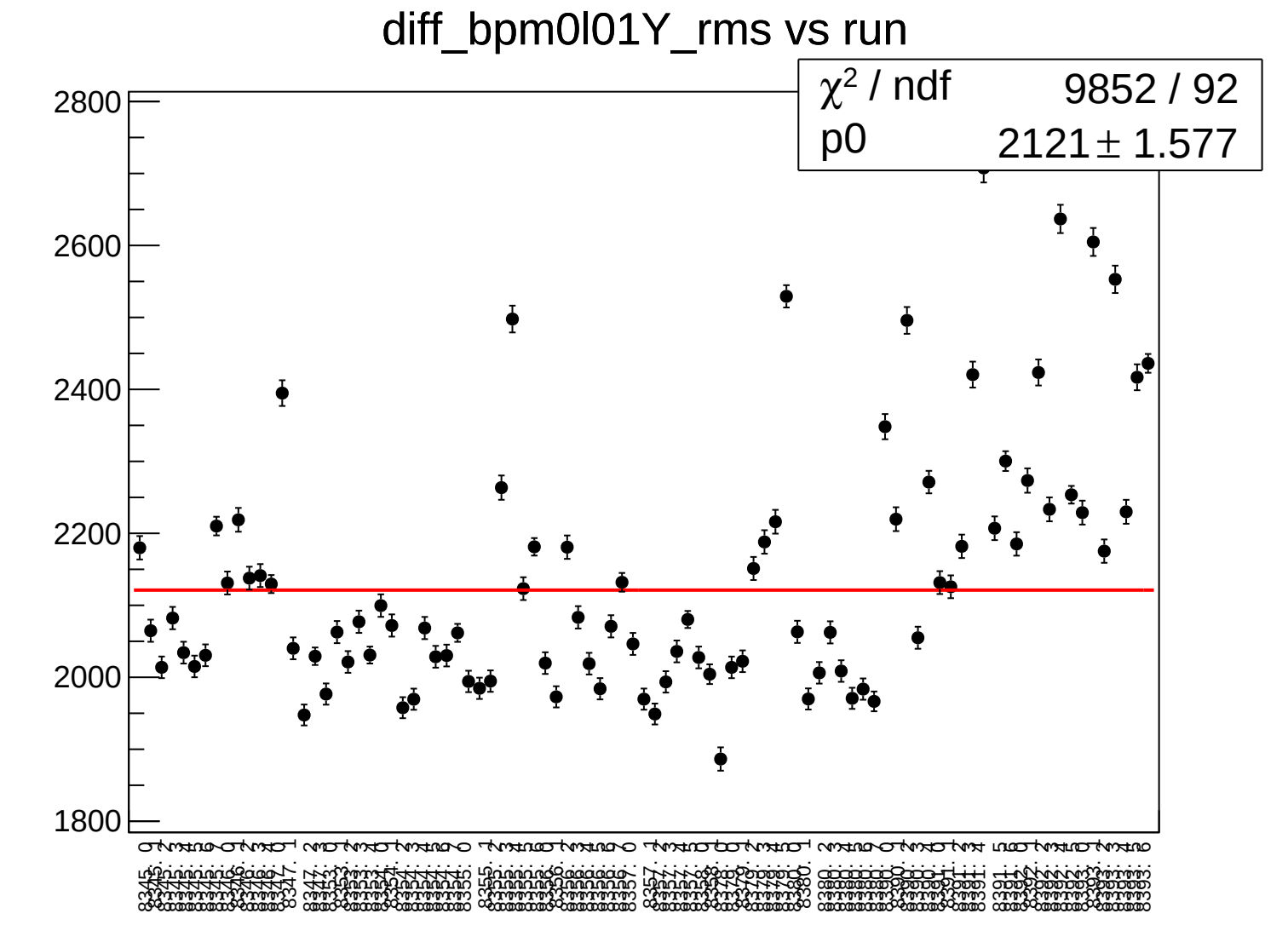

diff_bpm0l01X_mean vs run
χ^2 / ndf 112.7 / 92
p0 −37.57 ± 3.427
pull
Entries 93
Mean −225.1
Std Dev 0

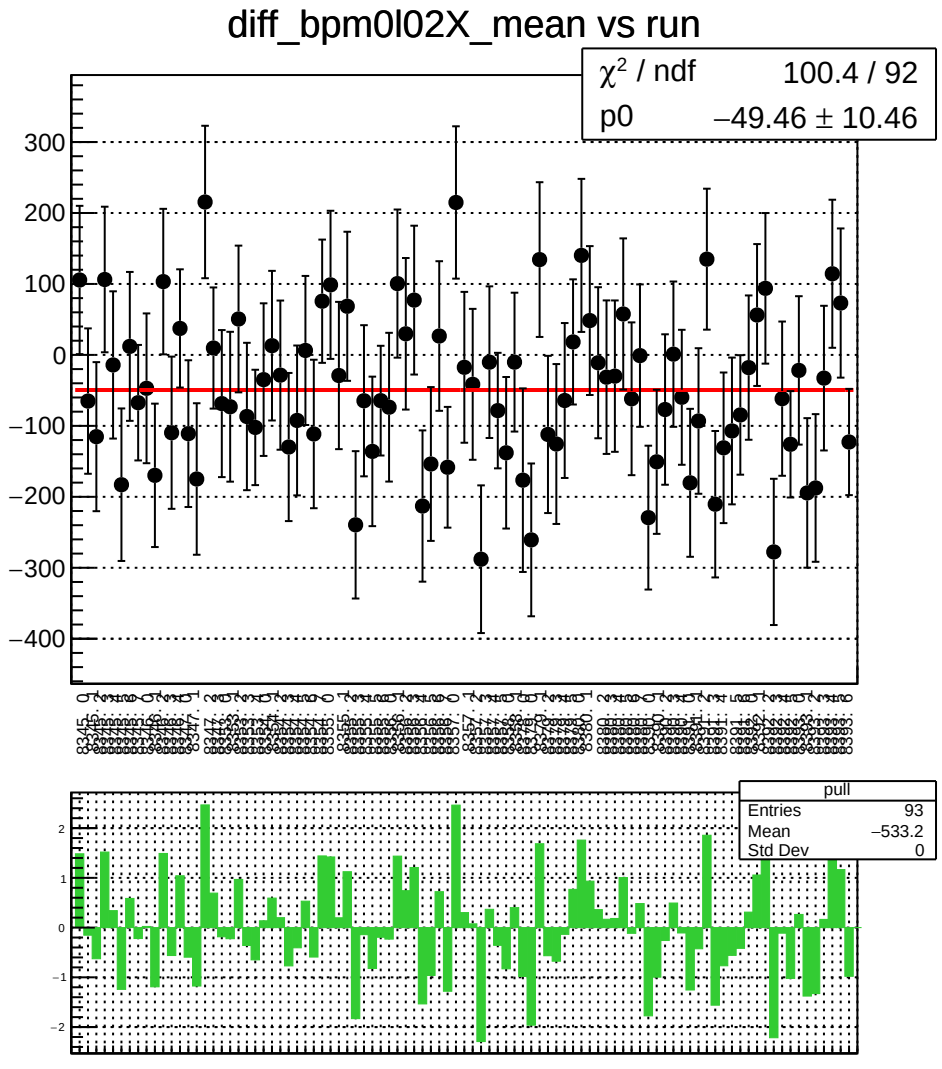

pull1D
Entries 93
Mean 0.009504
Std Dev 1.101

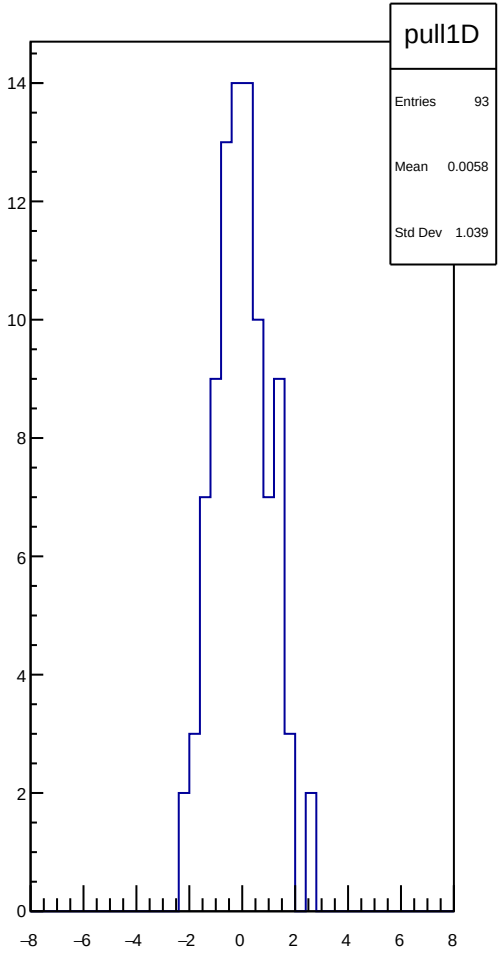

diff_bpm0l01X_rms vs run
χ² / ndf 611.5 / 92
p0 3267 ± 2.423
3450
3400
3350
3300
3250
3200
3150
3100

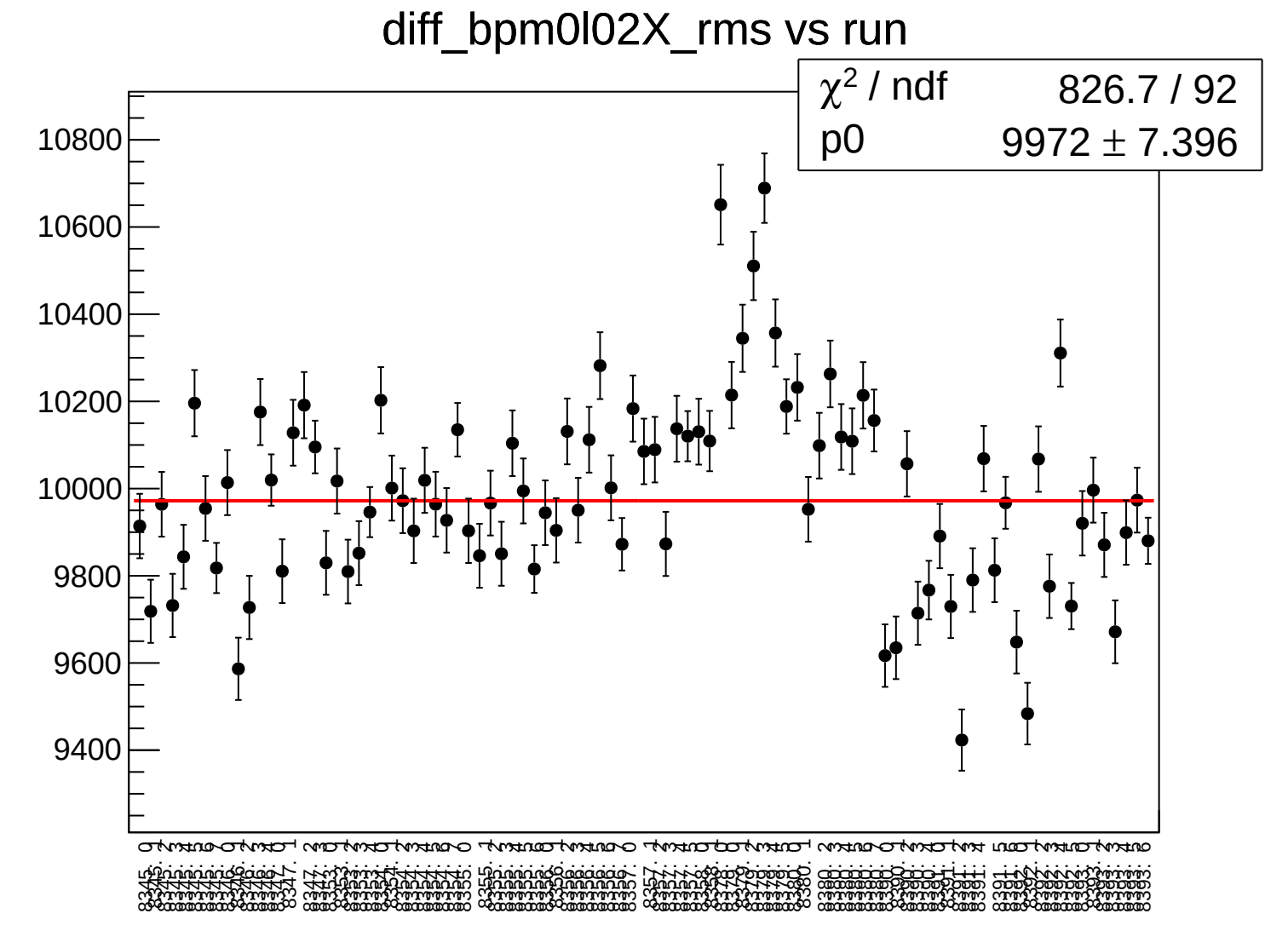

diff_bpm0l01Y_mean vs run
χ² / ndf 442 / 92
p0 68.9 ± 2.23
200
150
100
50
0
−50
pull
Entries 93
Mean 419.1
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4

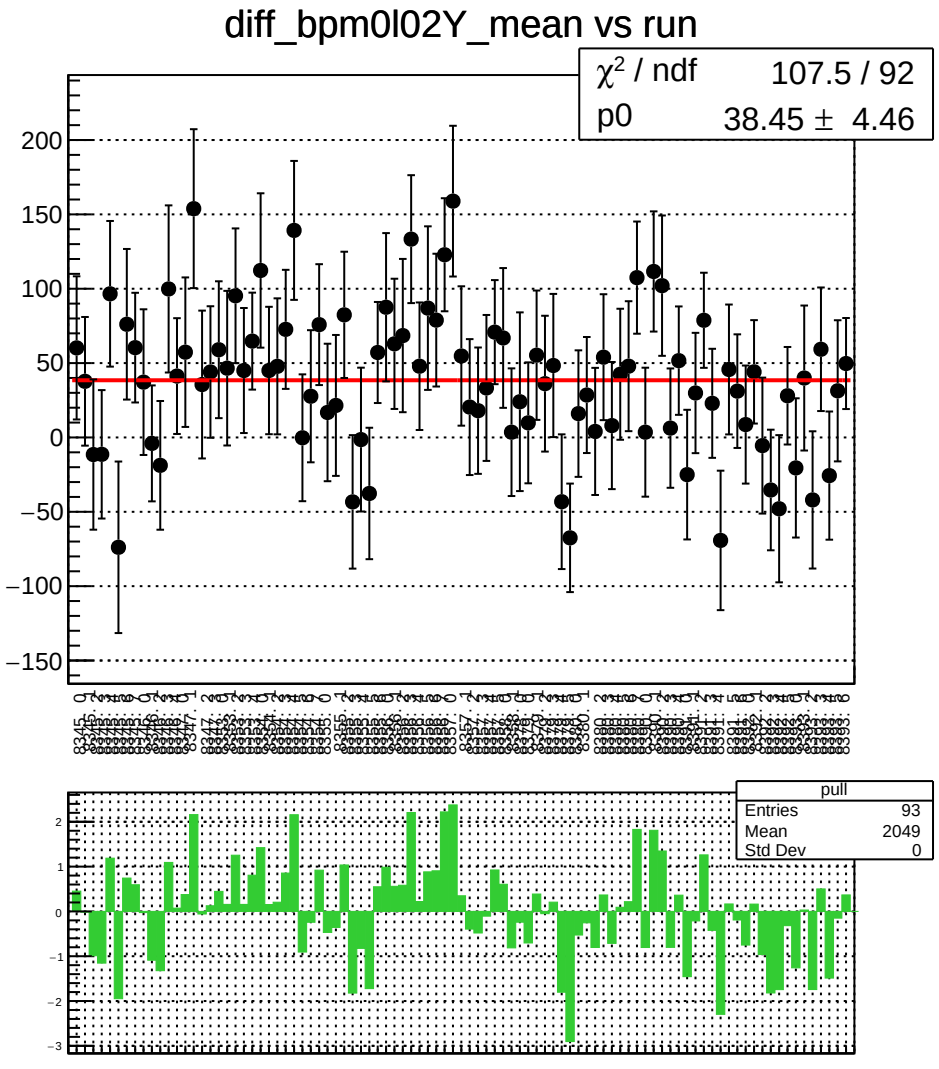

pull1D
Entries 93
Mean −0.09323
Std Dev 2.178
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

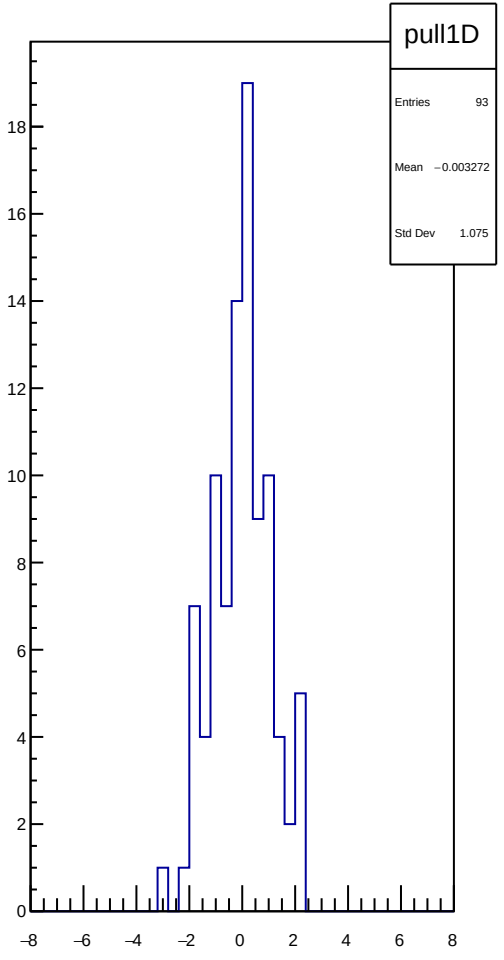

diff_bpm0l01Y_rms vs run
χ² / ndf 9852 / 92
p0 2121 ± 1.577
2800
2600
2400
2200
2000
1800

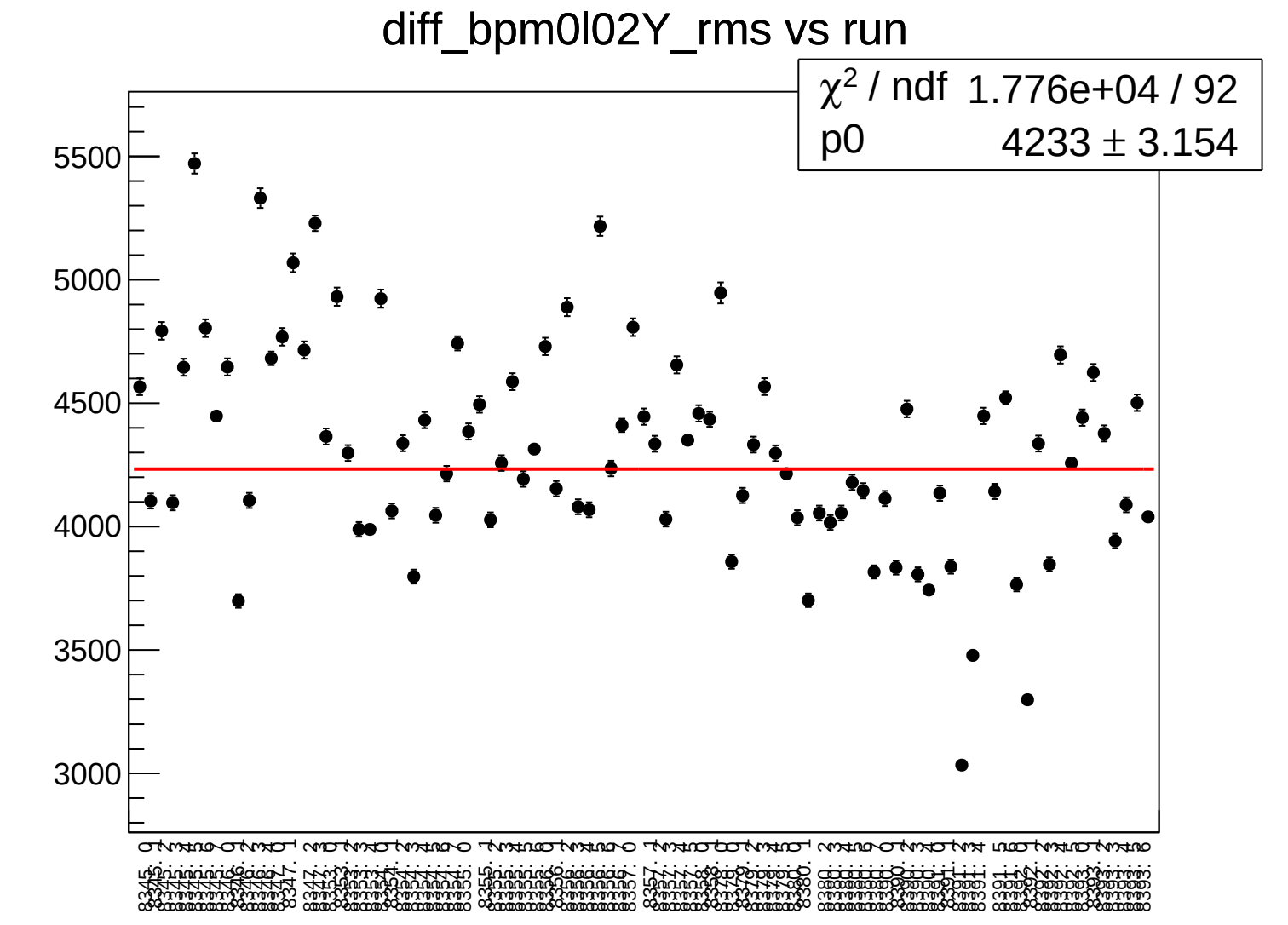

diff_bpm0l02X_mean vs run
χ² / ndf 100.4 / 92
p0 −49.46 ± 10.46
300
200
100
0
−100
−200
−300
−400
pull
Entries 93
Mean −533.2
Std Dev 0
2
1
0
−1
−2

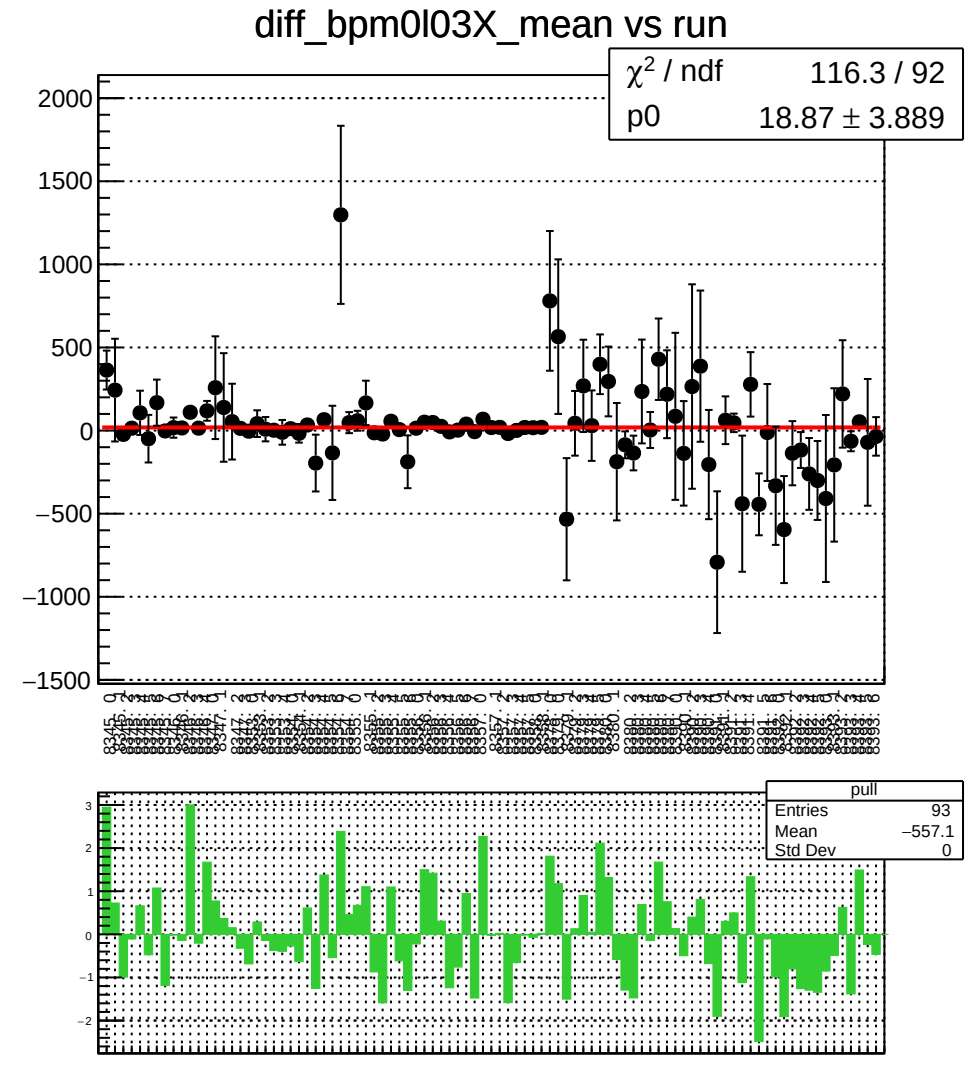

pull1D
Entries 93
Mean 0.0058
Std Dev 1.039
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

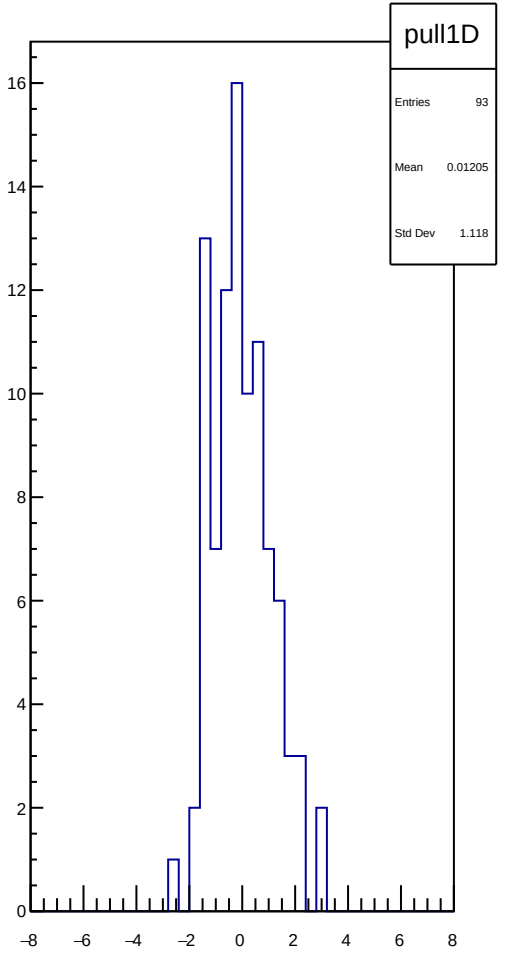

diff_bpm0l02X_rms vs run
χ² / ndf 826.7 / 92
p0 9972 ± 7.396
10800
10600
10400
10200
10000
9800
9600
9400

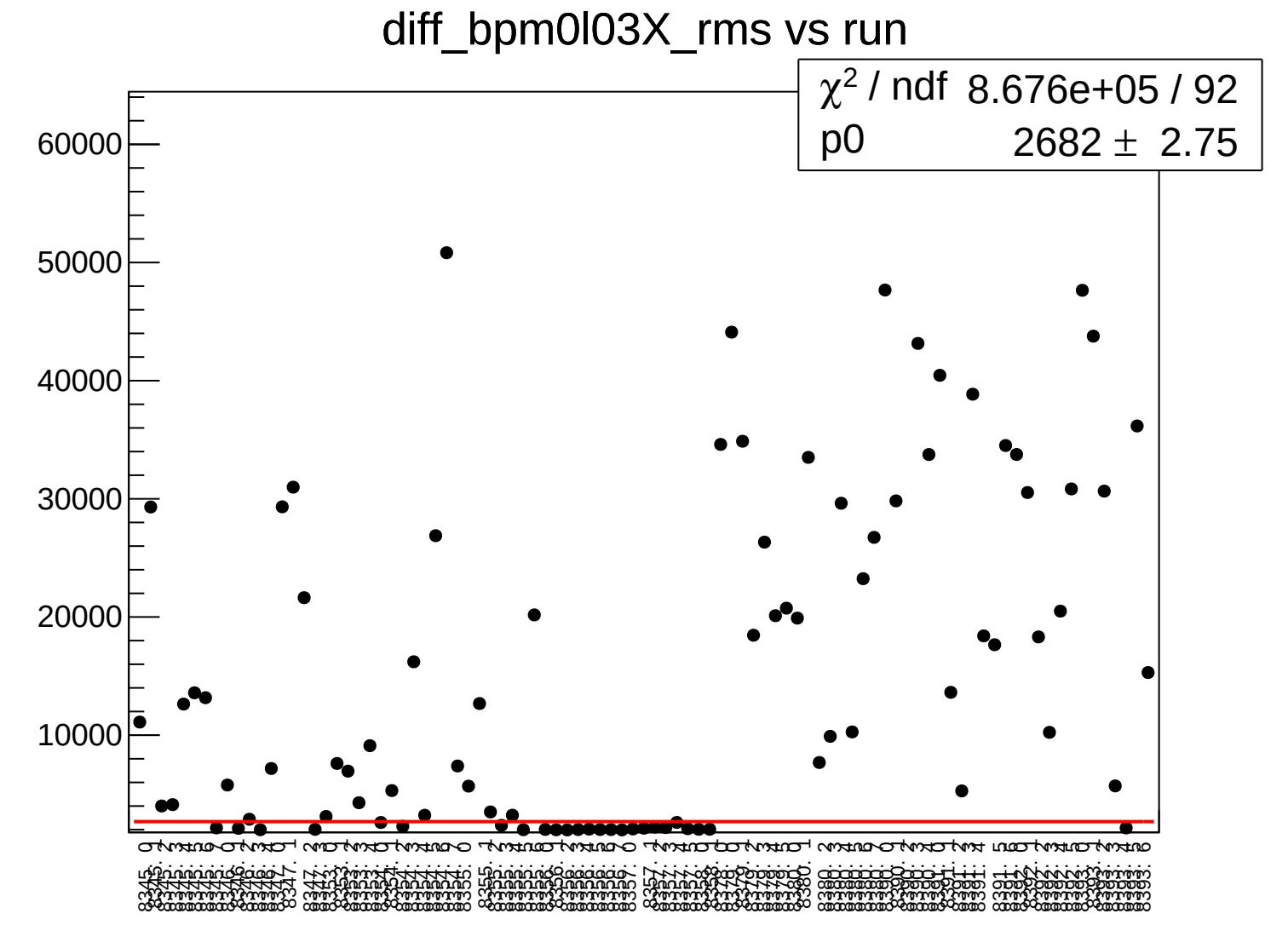

diff_bpm0l02Y_mean vs run
χ² / ndf 107.5 / 92
p0 38.45 ± 4.46
pull
Entries 93
Mean 2049
Std Dev 0

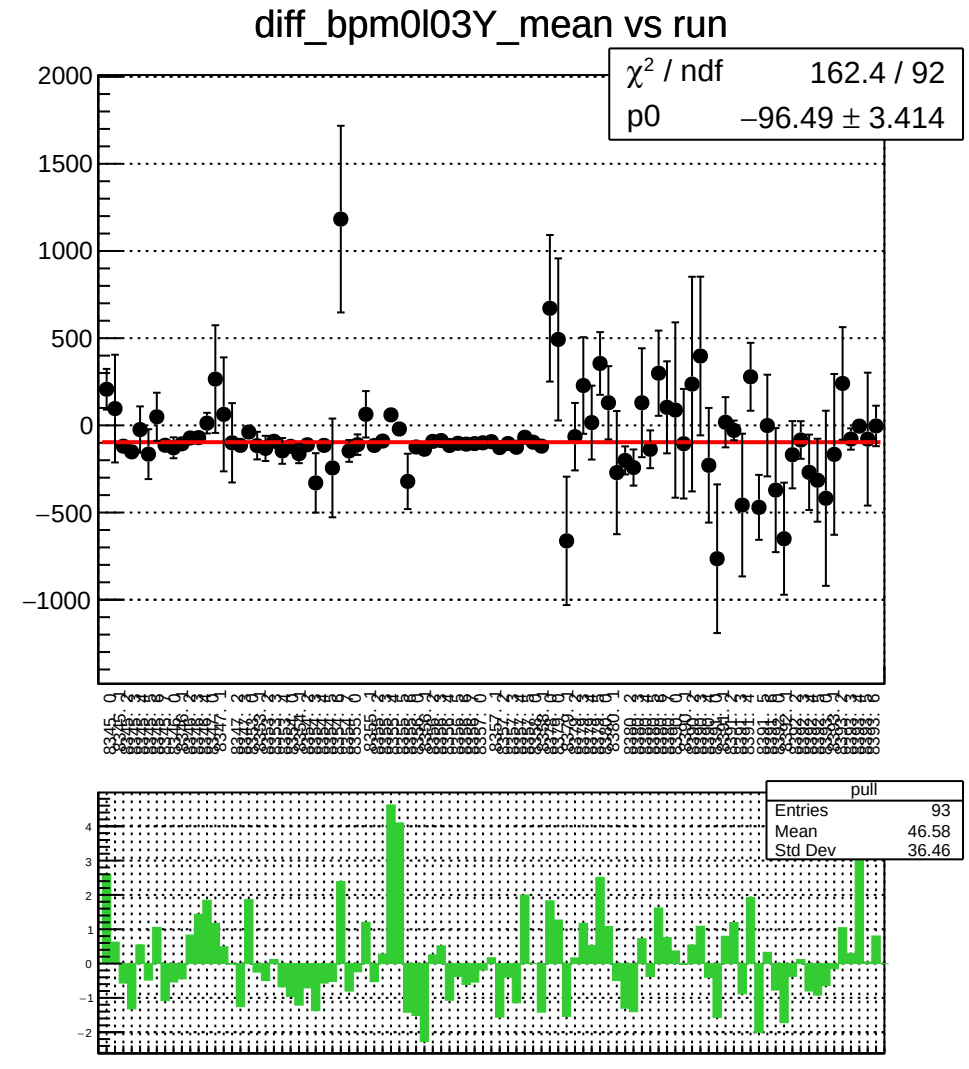

pull1D
Entries 93
Mean −0.003272
Std Dev 1.075

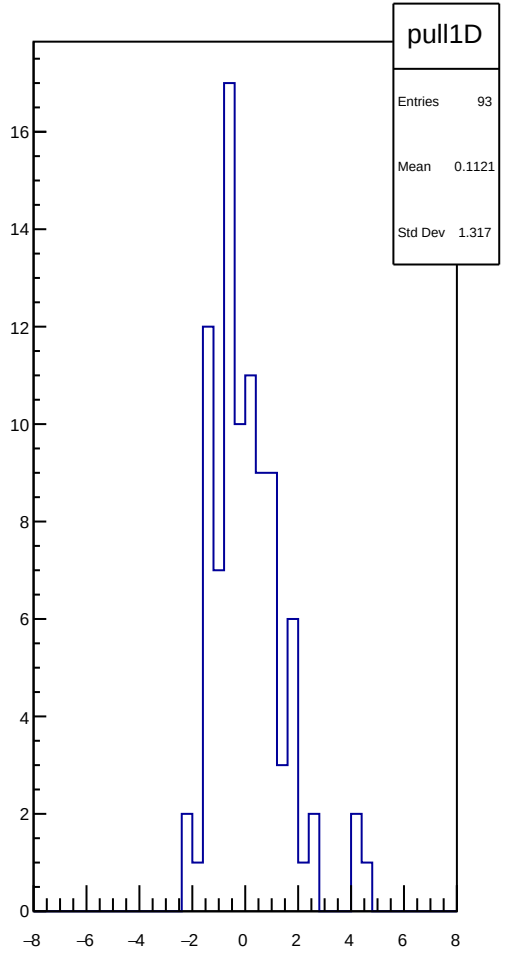

diff_bpm0l02Y_rms vs run
χ² / ndf 1.776e+04 / 92
p0 4233 ± 3.154
5500
5000
4500
4000
3500
3000

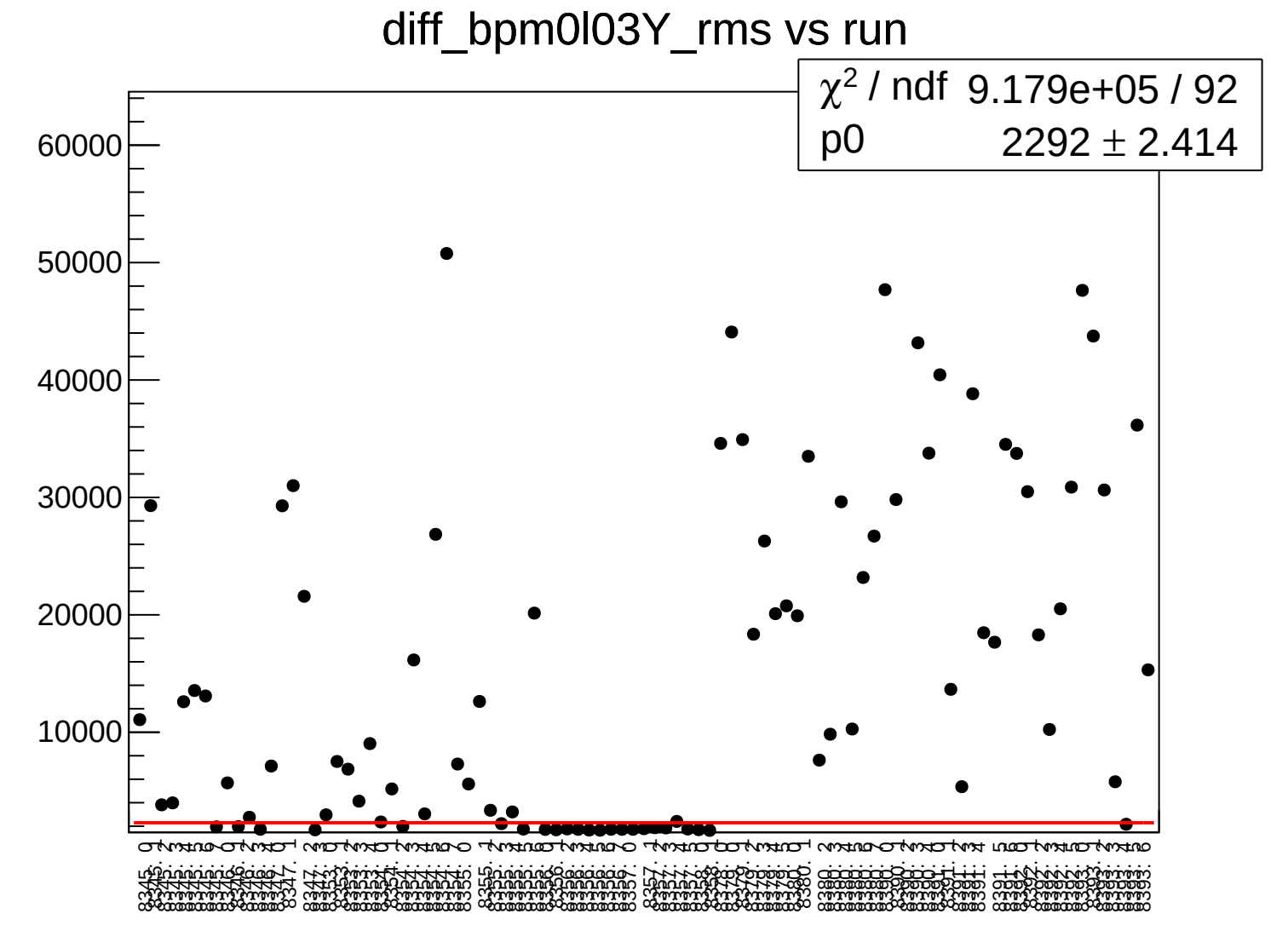

diff_bpm0l03X_mean vs run
χ² / ndf 116.3 / 92
p0 18.87 ± 3.889
pull
Entries 93
Mean −557.1
Std Dev 0

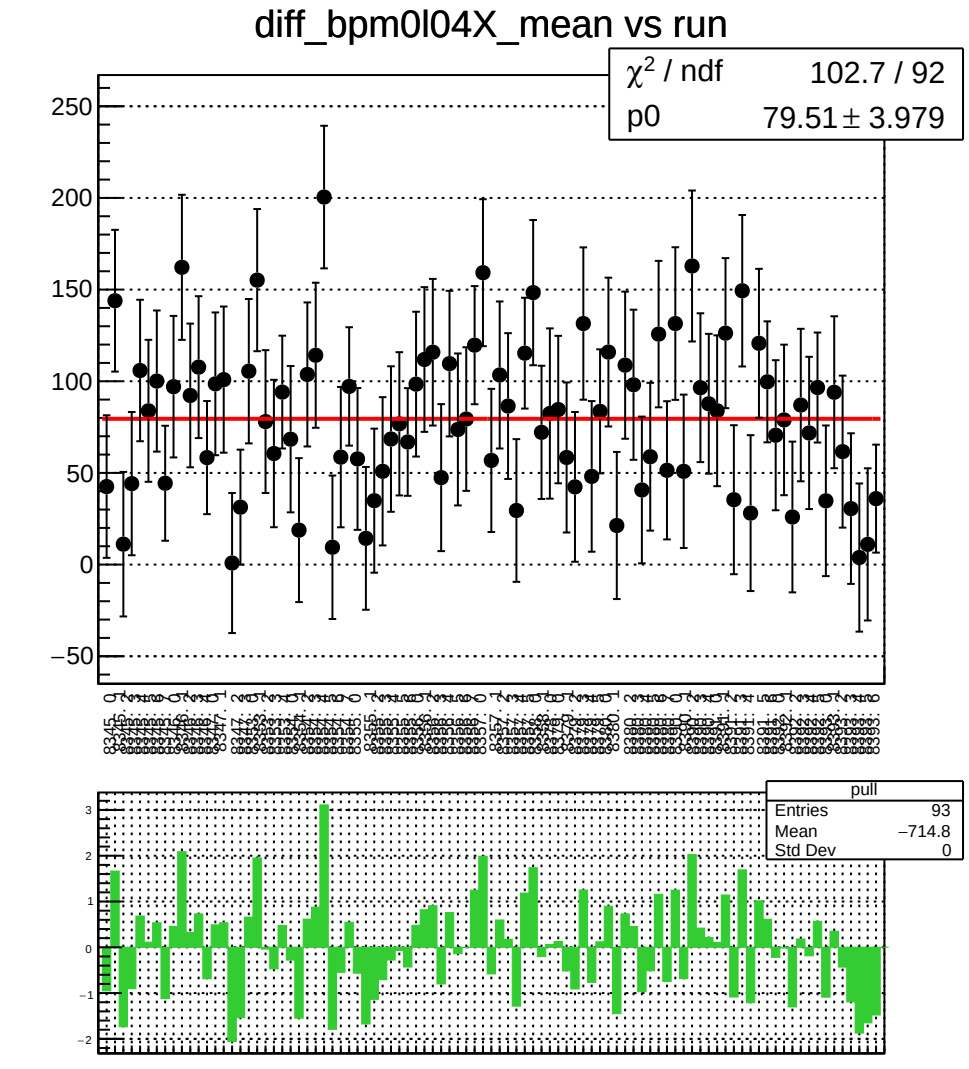

pull1D
Entries 93
Mean 0.01205
Std Dev 1.118

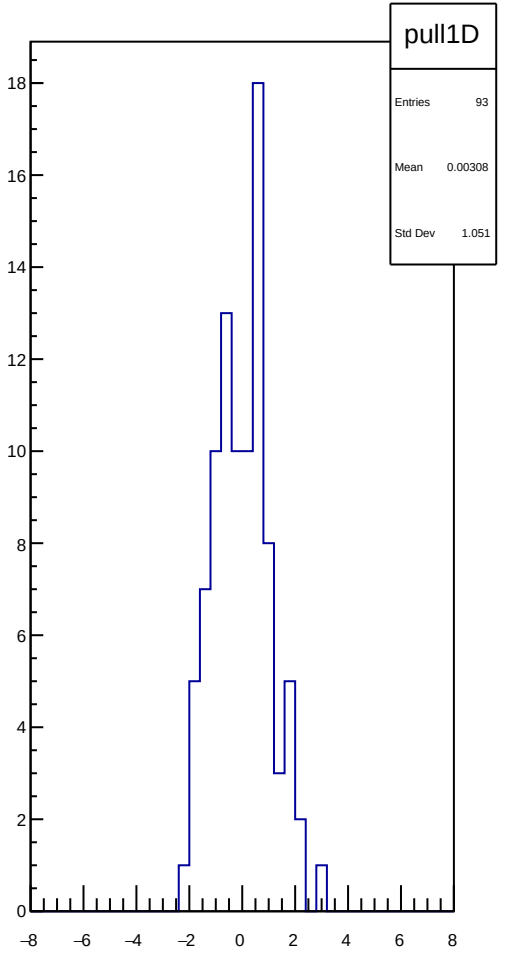

diff_bpm0l03X_rms vs run
χ^2 / ndf 8.676e+05 / 92
p0 2682 ± 2.75
60000
50000
40000
30000
20000
10000

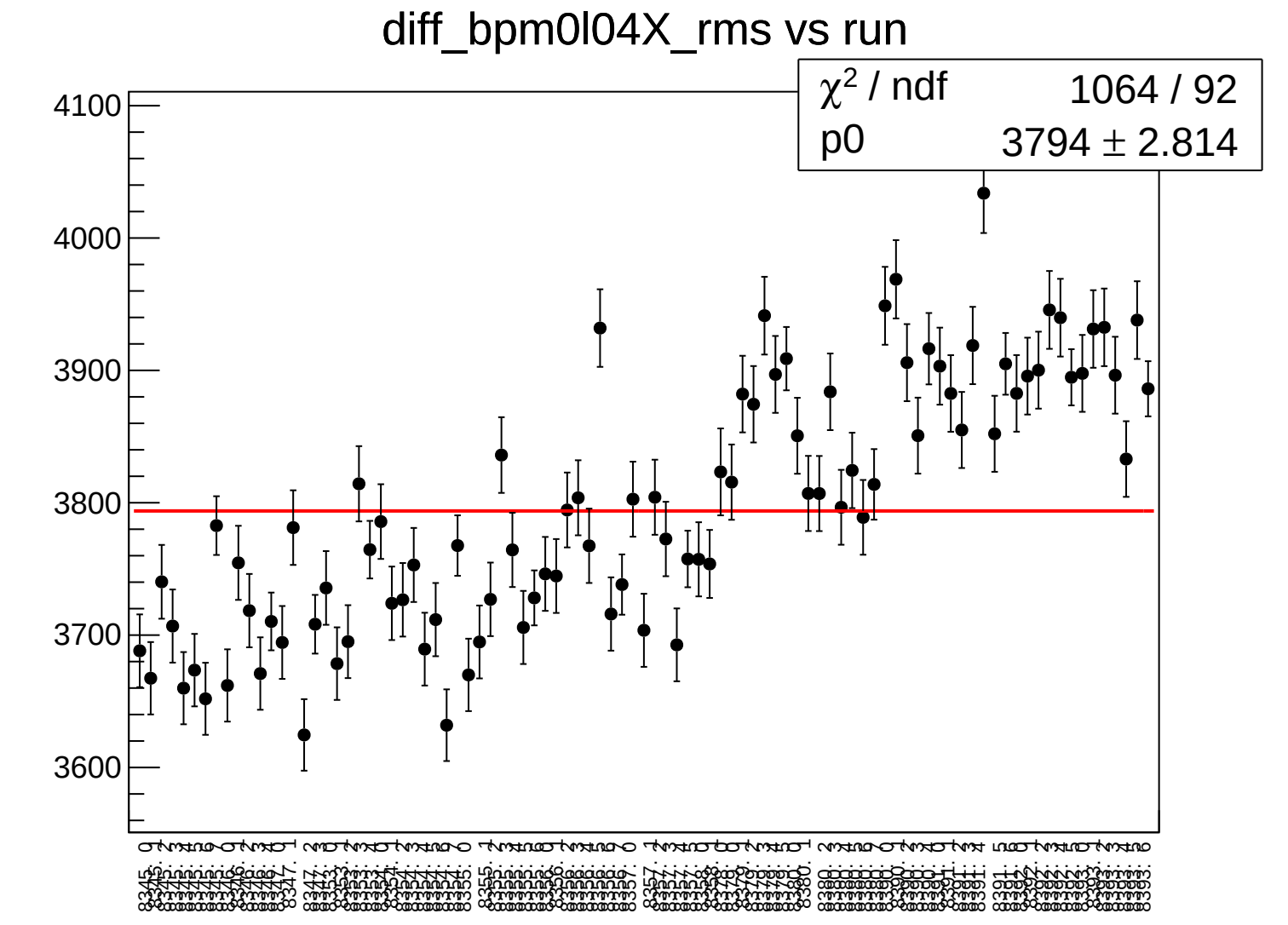

diff_bpm0l03Y_mean vs run
χ² / ndf 162.4 / 92
p0 −96.49 ± 3.414
pull
Entries 93
Mean 46.58
Std Dev 36.46

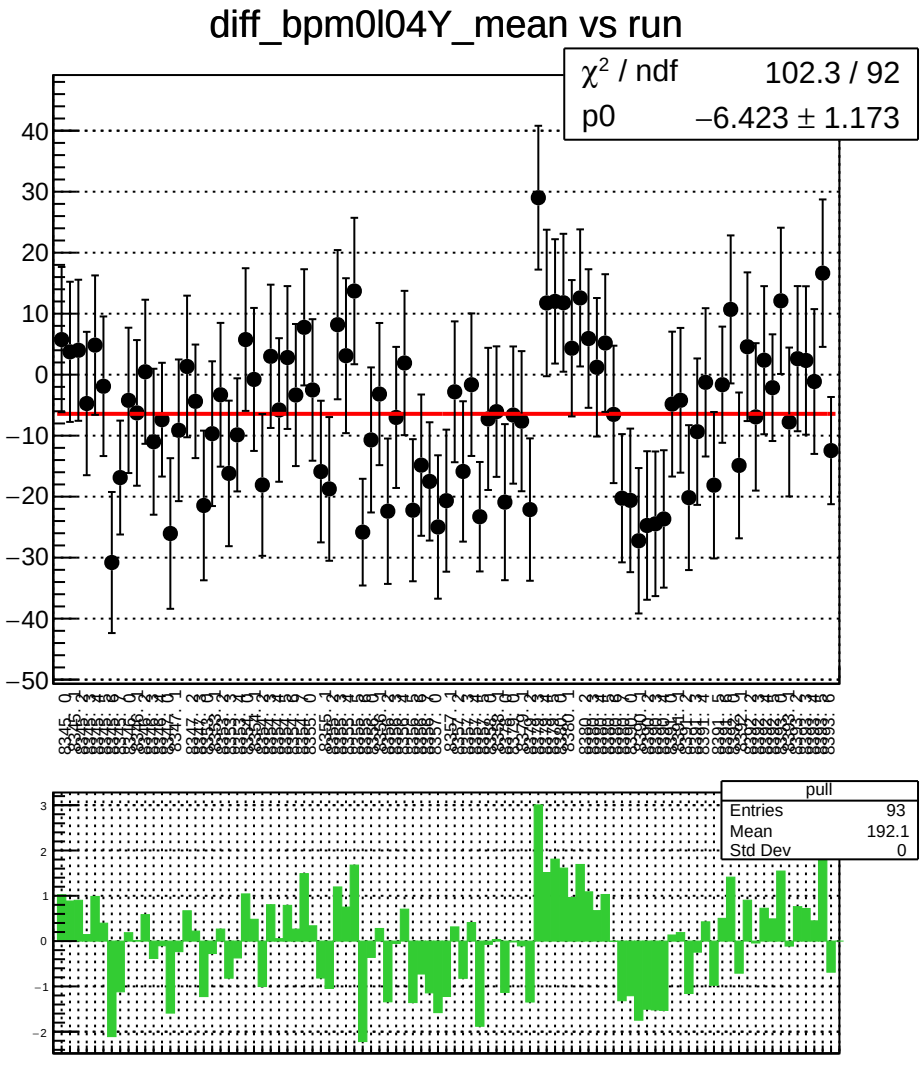

pull1D
Entries 93
Mean 0.1121
Std Dev 1.317

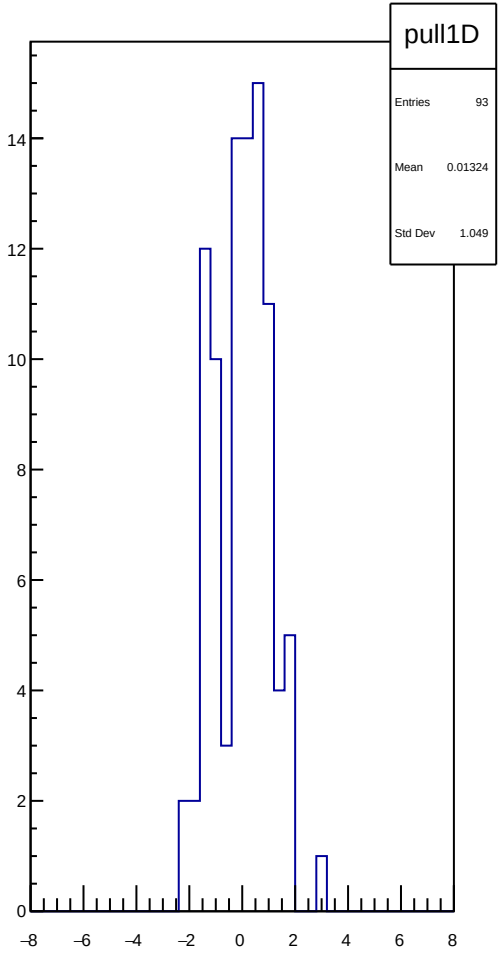

diff_bpm0l03Y_rms vs run
χ^2 / ndf 9.179e+05 / 92
p0 2292 ± 2.414
60000
50000
40000
30000
20000
10000

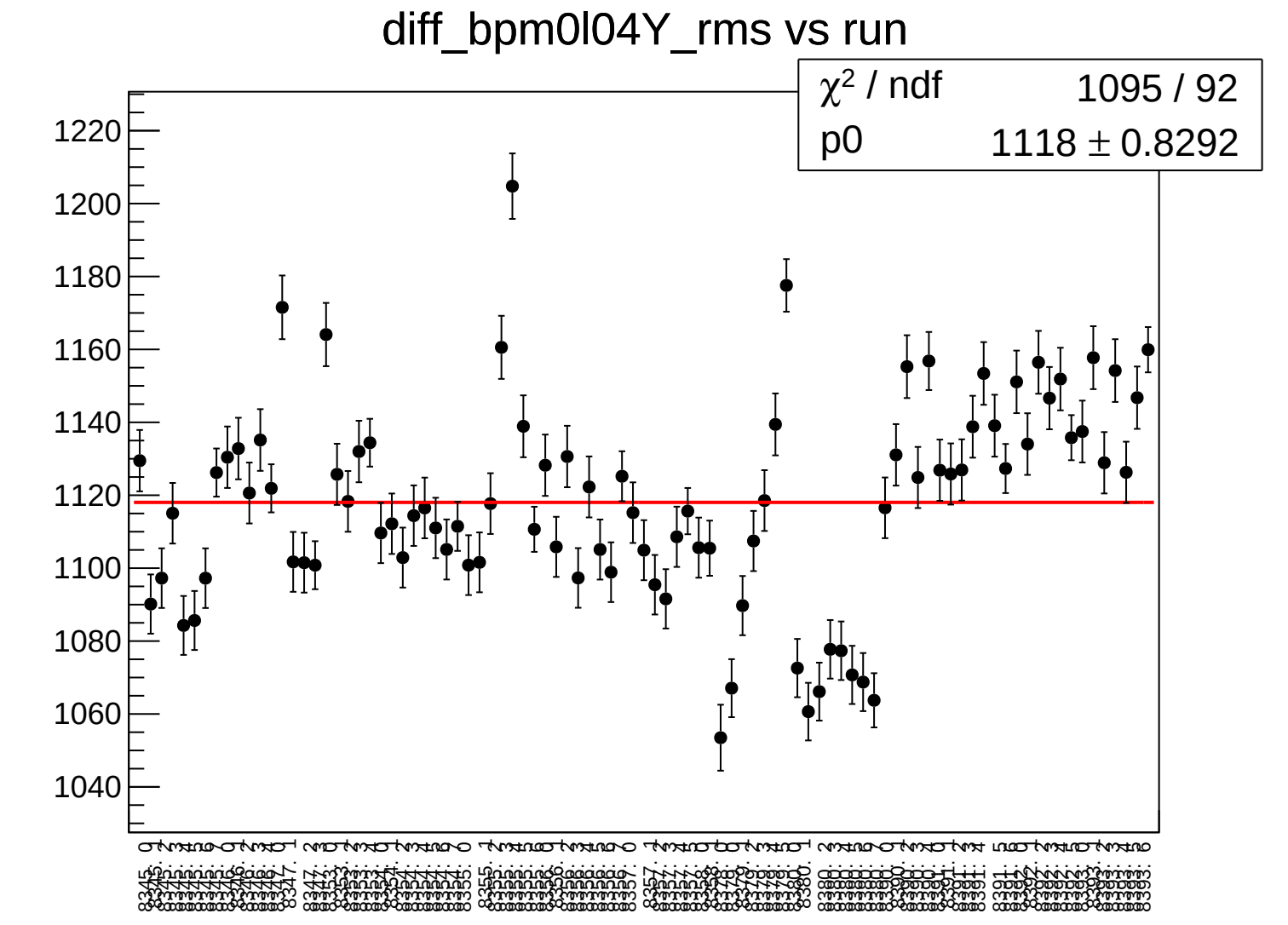

diff_bpm0l04X_mean vs run
χ² / ndf 102.7 / 92
p0 79.51 ± 3.979
pull
Entries 93
Mean −714.8
Std Dev 0

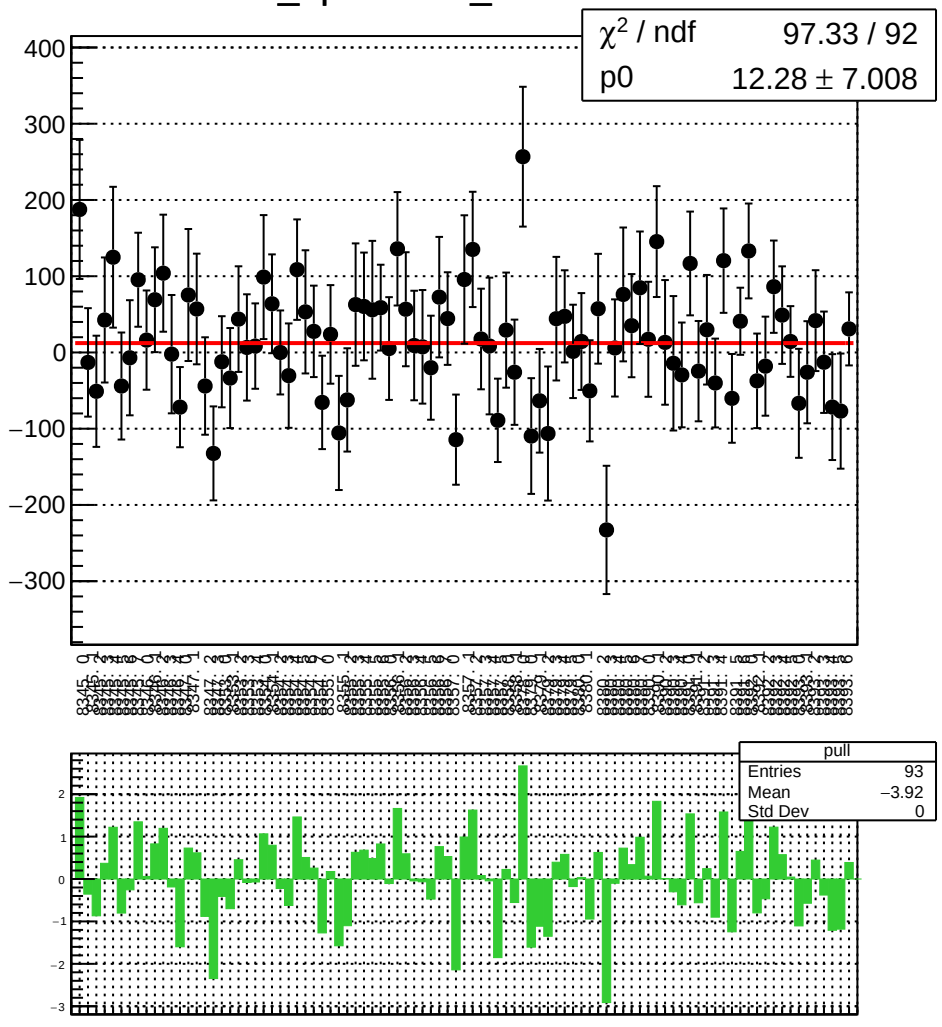

pull1D
Entries 93
Mean 0.00308
Std Dev 1.051

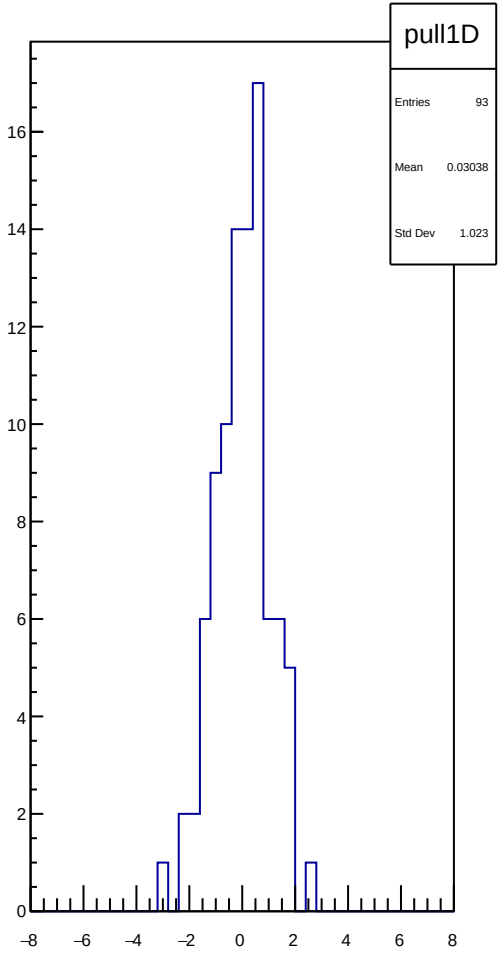

diff_bpm0l04X_rms vs run
χ^2 / ndf 1064 / 92
p0 3794 ± 2.814
4100
4000
3900
3800
3700
3600

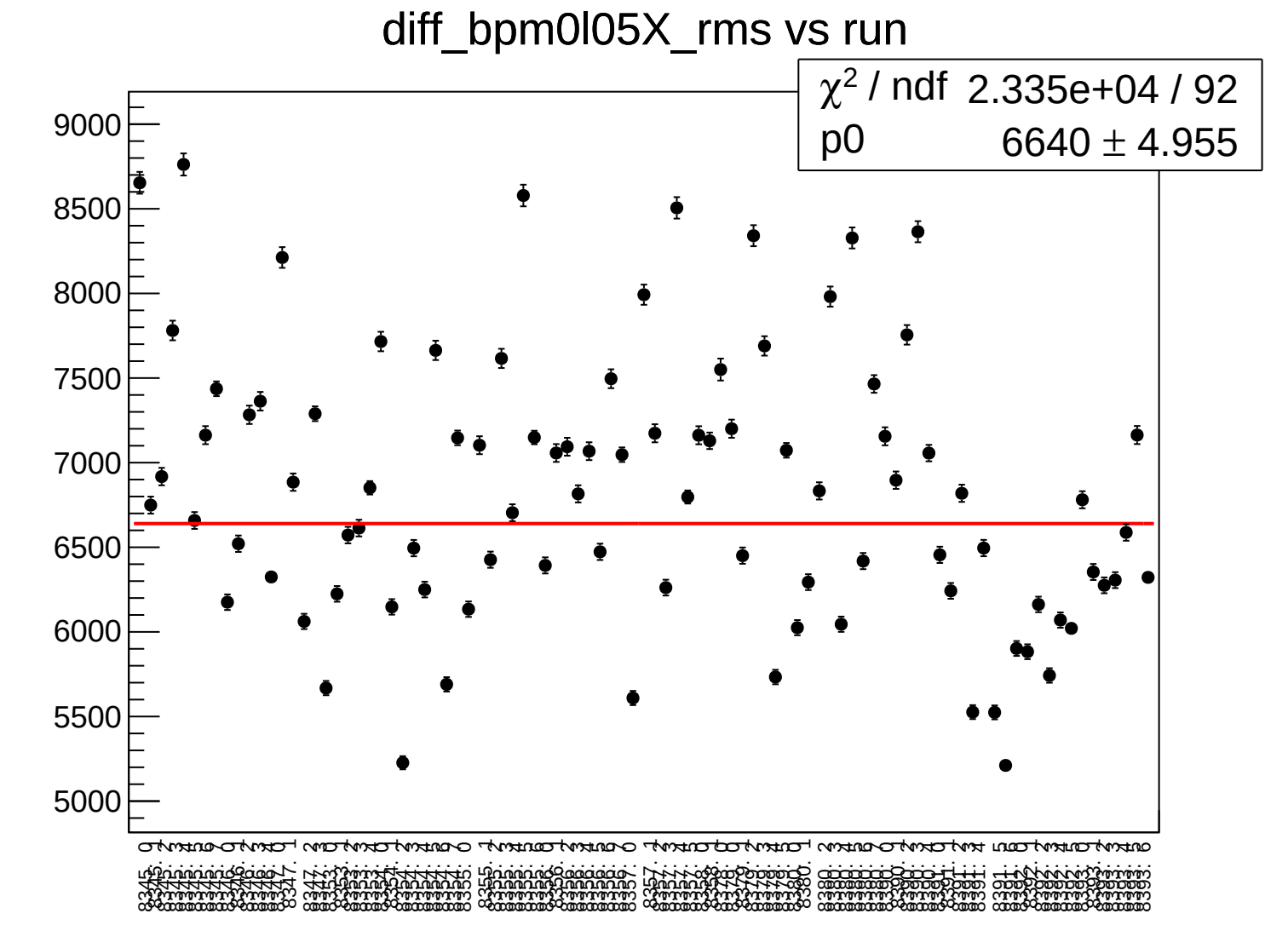

diff_bpm0l04Y_mean vs run
χ² / ndf 102.3 / 92
p0 −6.423 ± 1.173
pull
Entries 93
Mean 192.1
Std Dev 0

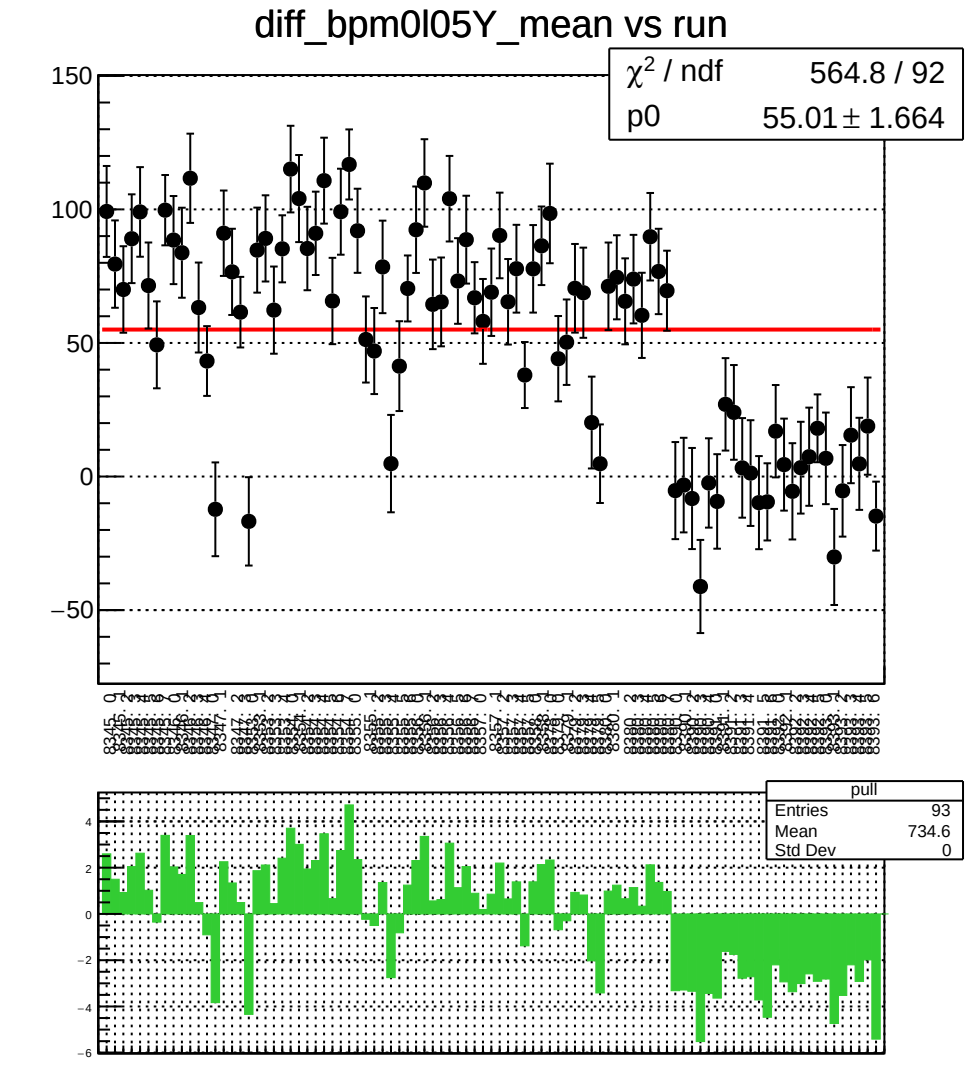

pull1D
Entries 93
Mean 0.01324
Std Dev 1.049

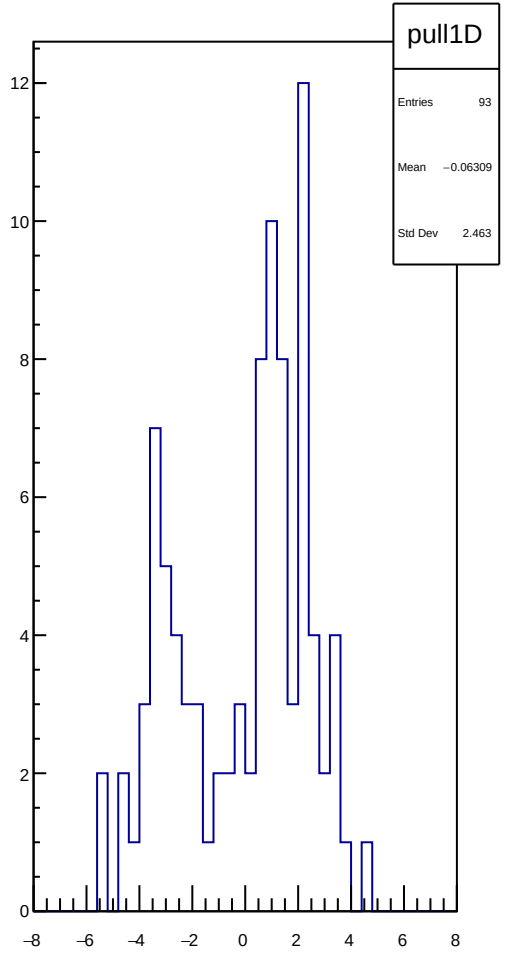

diff_bpm0l04Y_rms vs run
χ² / ndf 1095 / 92
p0 1118 ± 0.8292
1220
1200
1180
1160
1140
1120
1100
1080
1060
1040

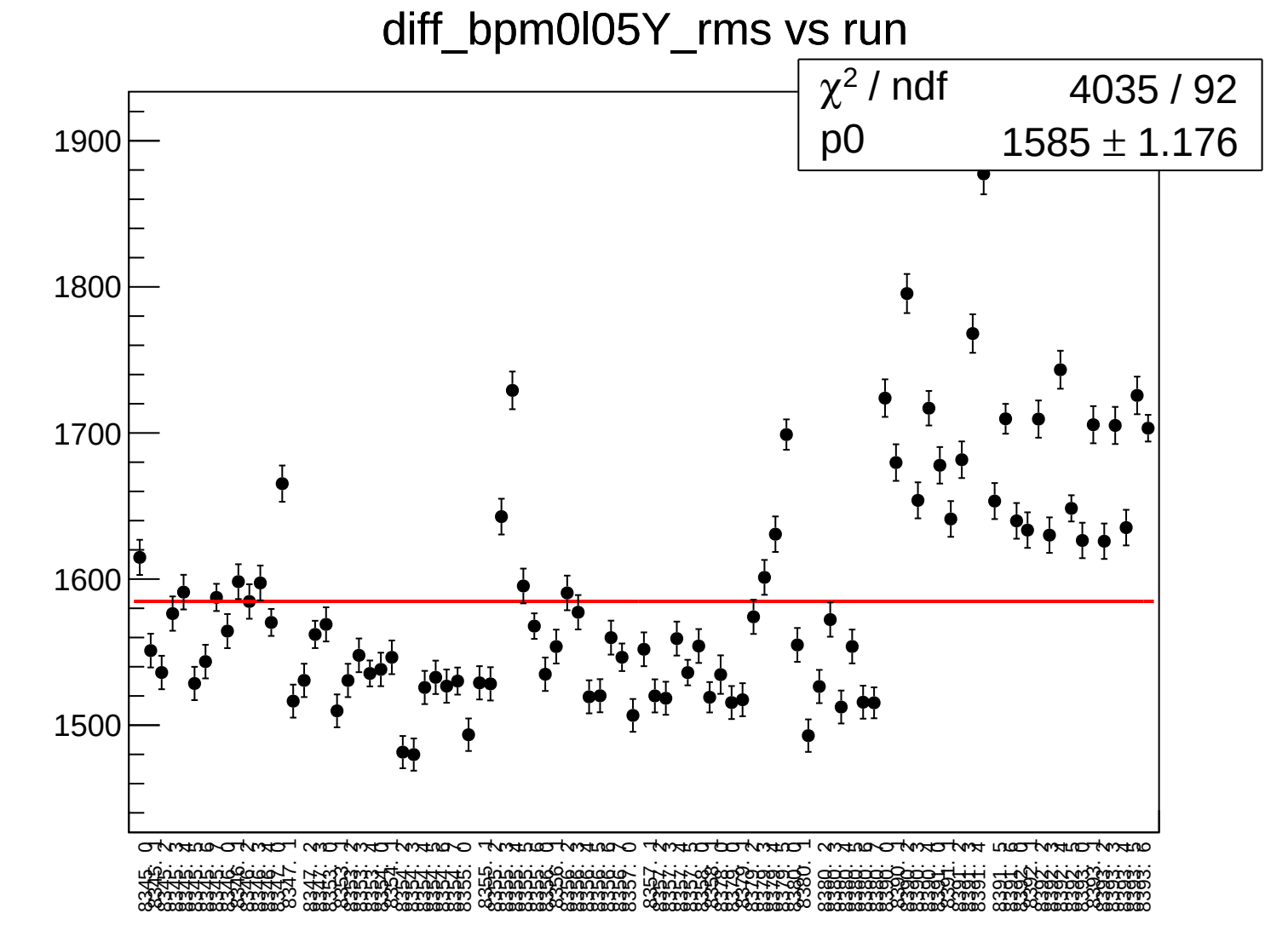

diff_bpm0l05X_mean vs run
χ² / ndf 97.33 / 92
p0 12.28 ± 7.008
pull
Entries 93
Mean −3.92
Std Dev 0

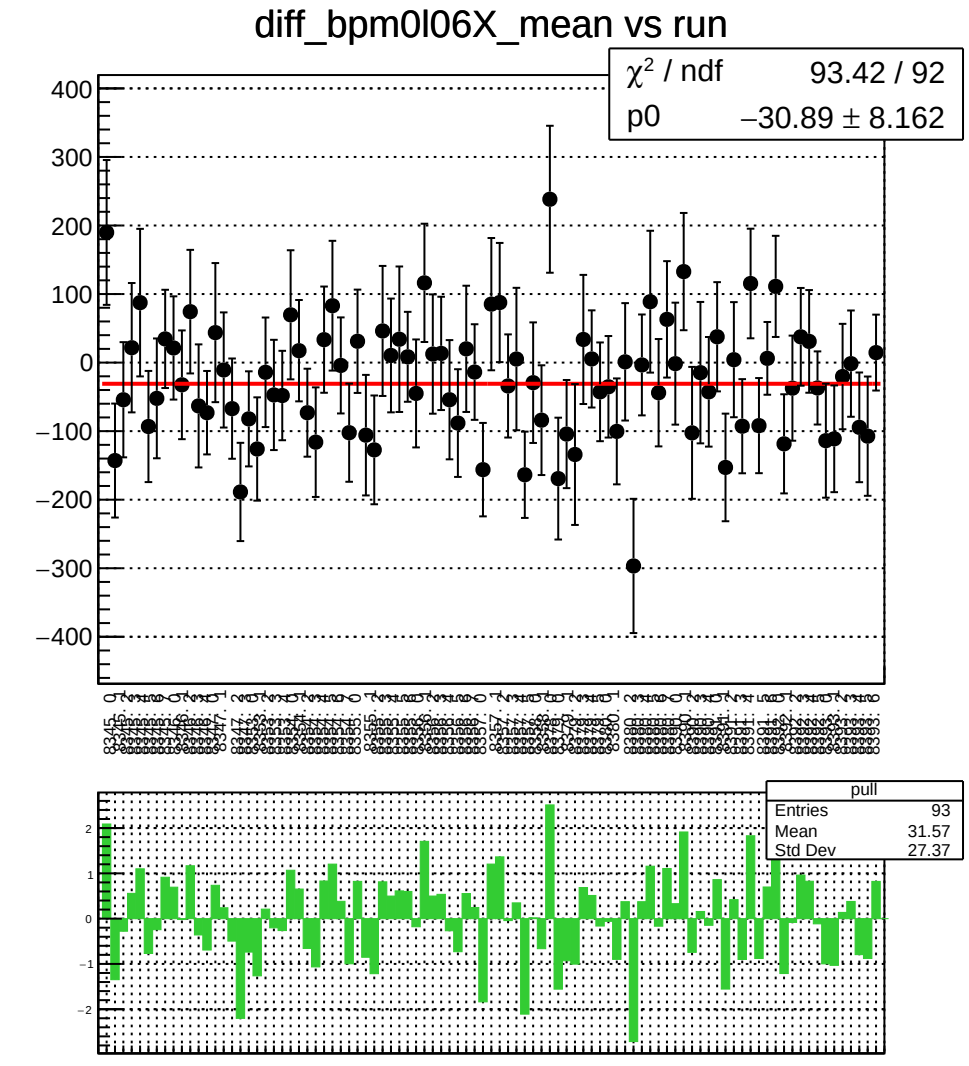

pull1D
Entries 93
Mean 0.03038
Std Dev 1.023

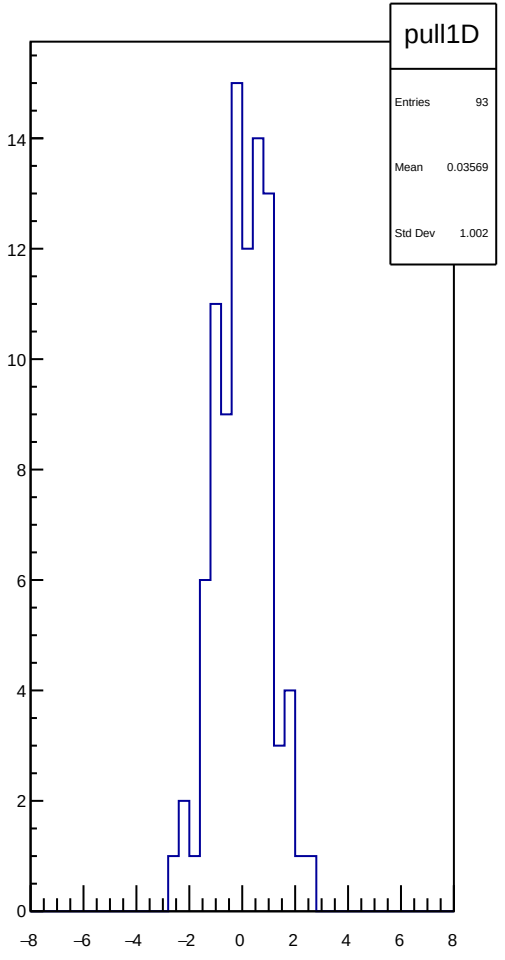

diff_bpm0l05X_rms vs run
χ^2 / ndf 2.335e+04 / 92
p0 6640 ± 4.955
9000
8500
8000
7500
7000
6500
6000
5500
5000

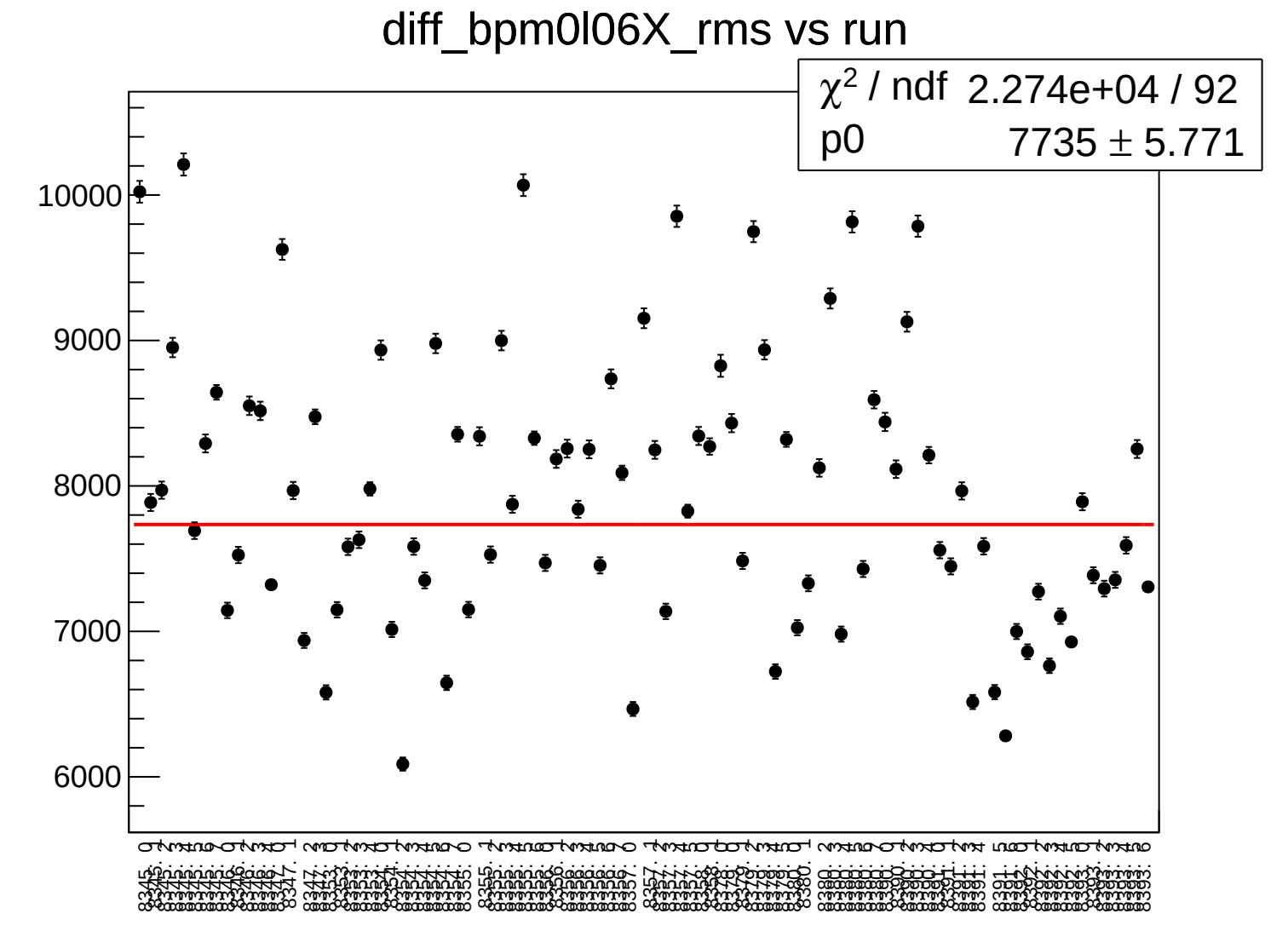

diff_bpm0l05Y_mean vs run
χ² / ndf 564.8 / 92
p0 55.01 ± 1.664
150
100
50
0
−50
pull
Entries 93
Mean 734.6
Std Dev 0
4
2
0
−2
−4
−6

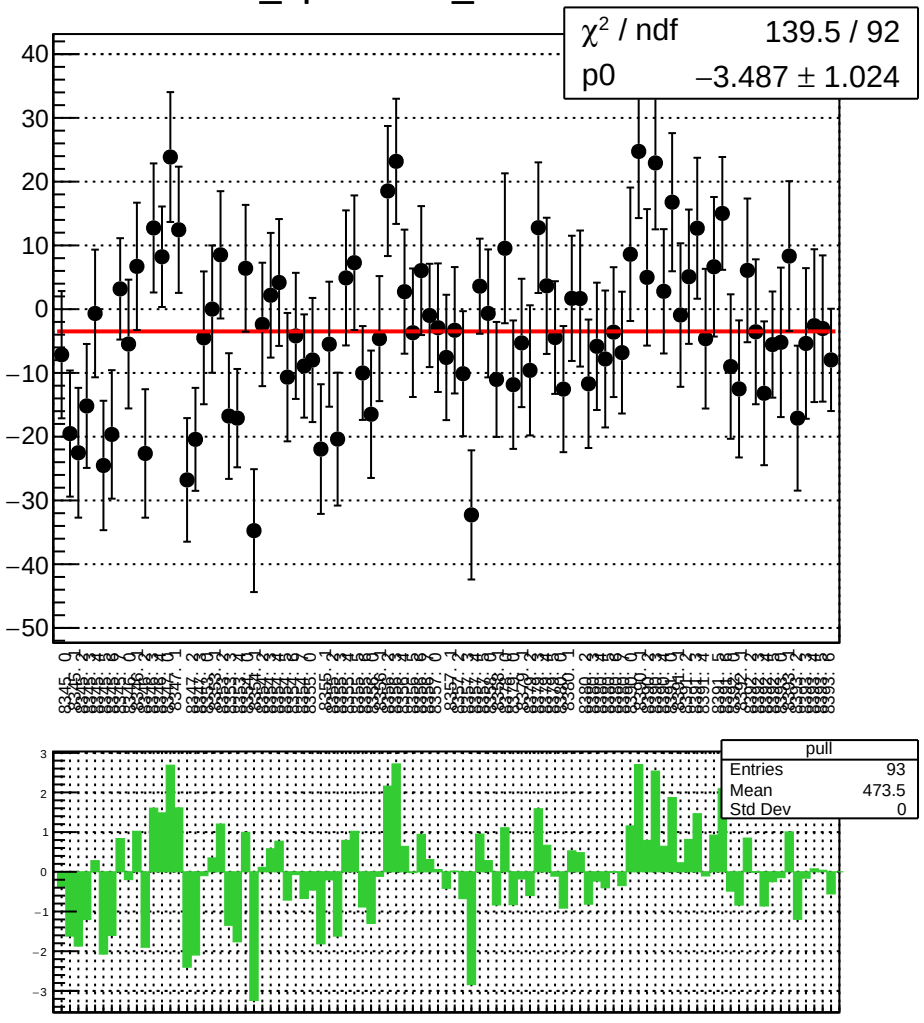

pull1D
Entries 93
Mean −0.06309
Std Dev 2.463
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

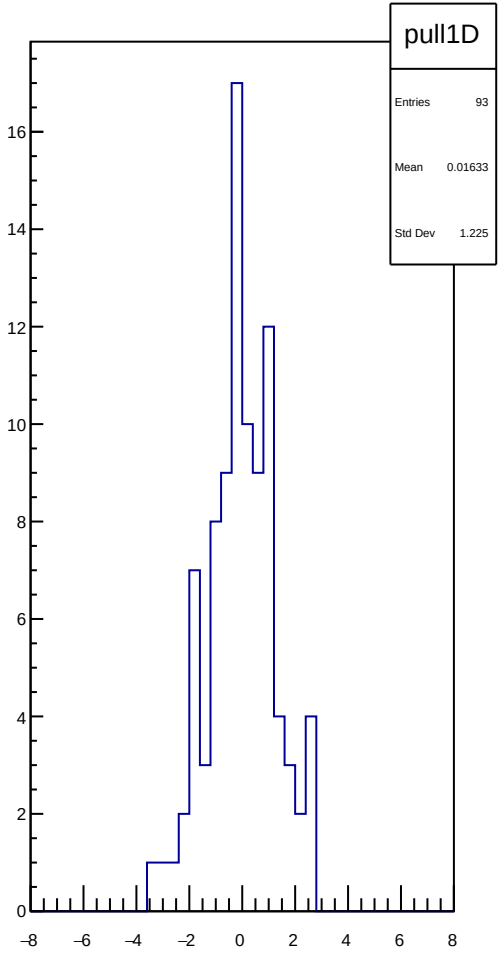

diff_bpm0l05Y_rms vs run
χ² / ndf 4035 / 92
p0 1585 ± 1.176
1900
1800
1700
1600
1500

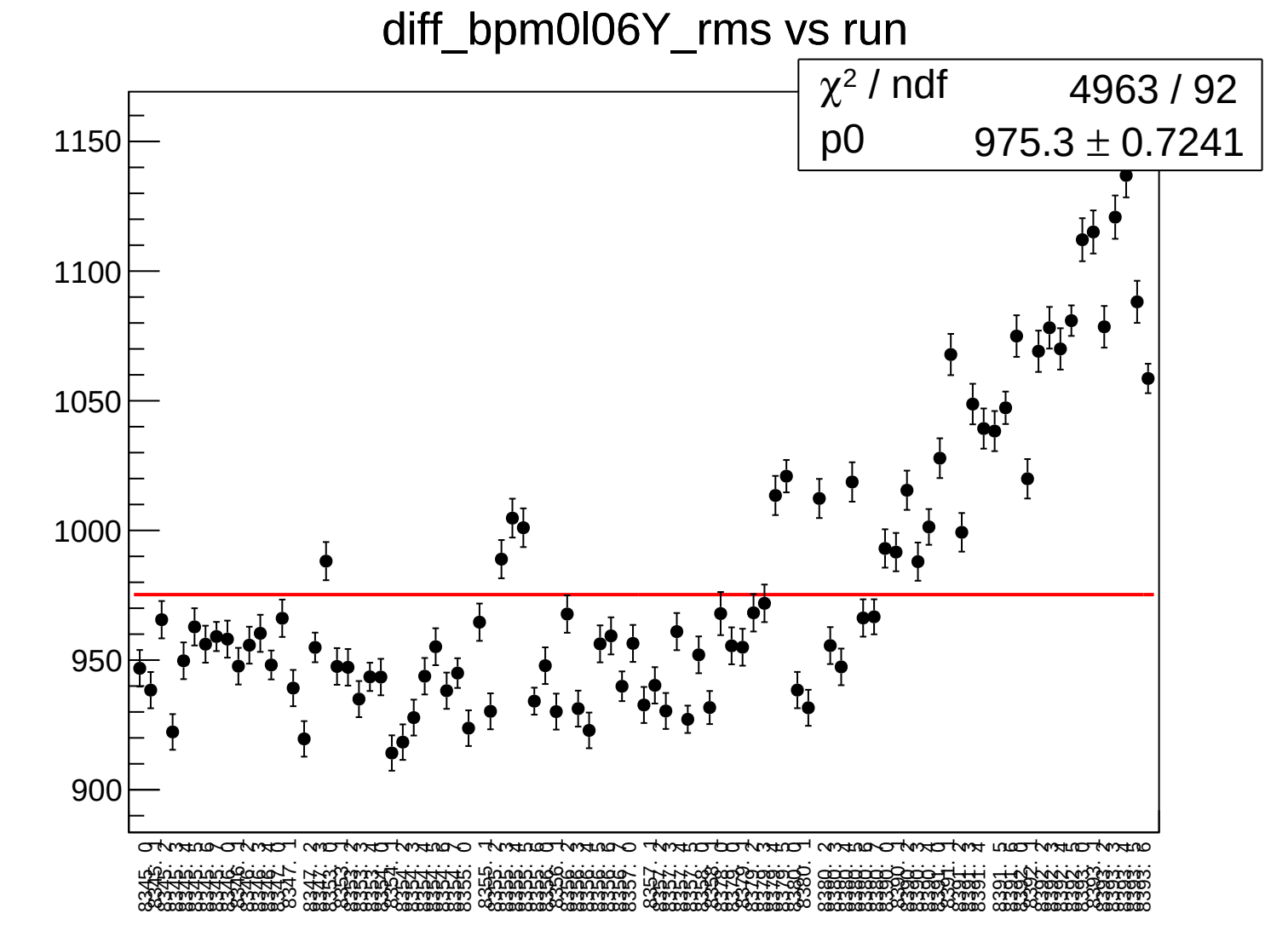

diff_bpm0l06X_mean vs run
χ² / ndf 93.42 / 92
p0 −30.89 ± 8.162
pull
Entries 93
Mean 31.57
Std Dev 27.37

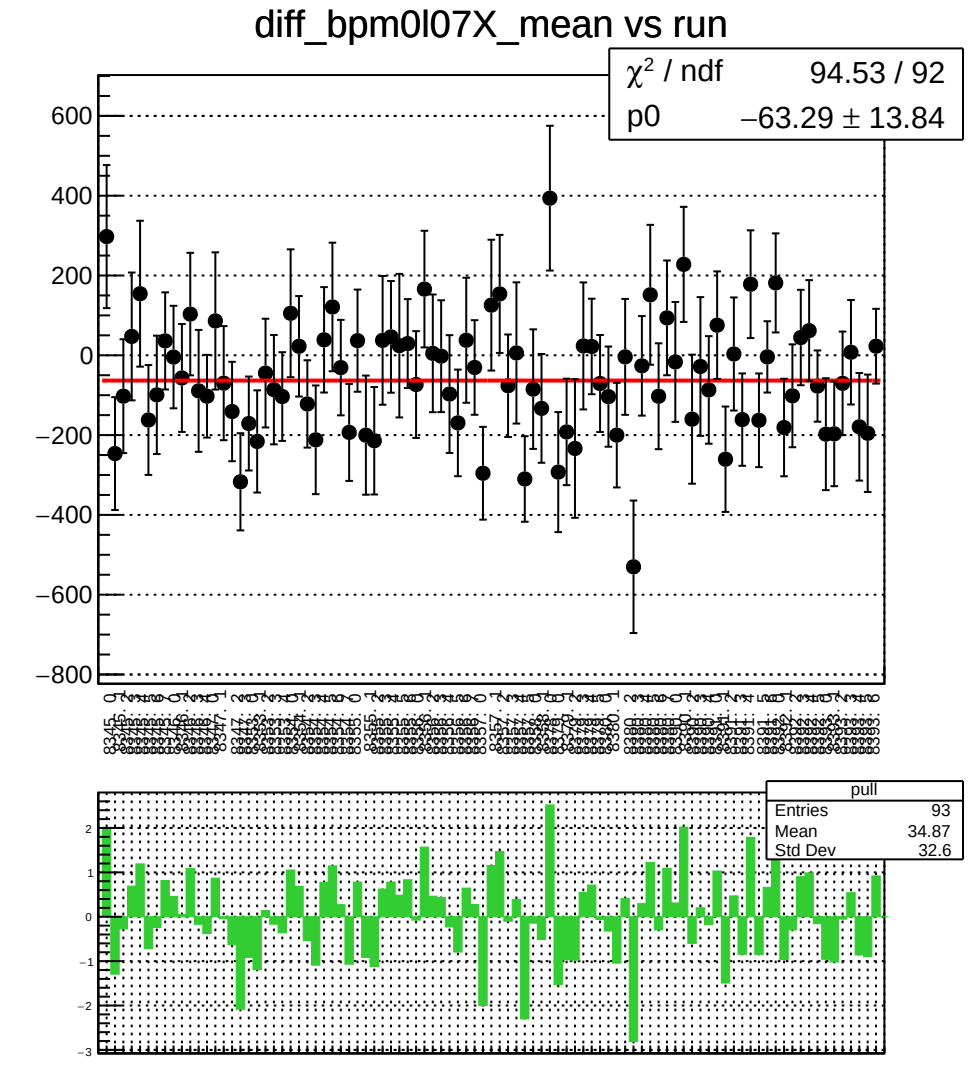

pull1D
Entries 93
Mean 0.03569
Std Dev 1.002

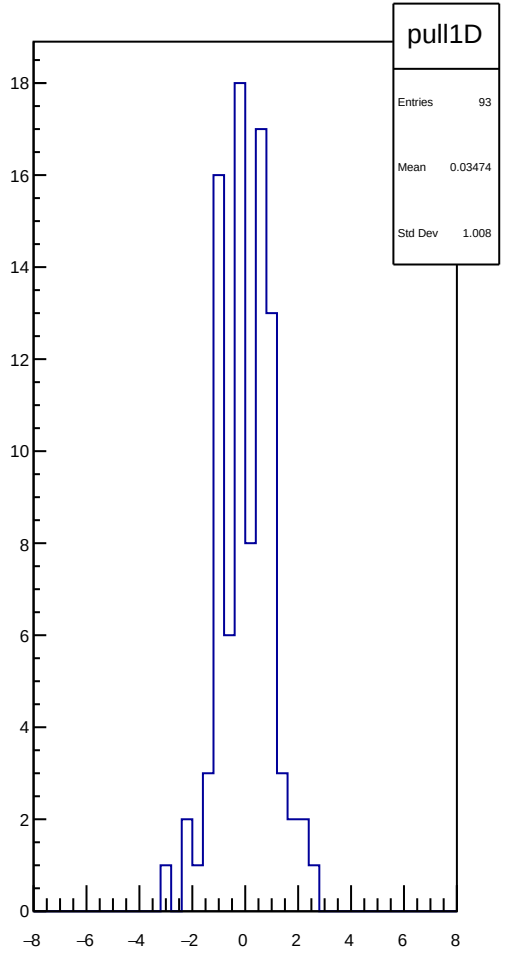

diff_bpm0l06X_rms vs run
χ² / ndf 2.274e+04 / 92
p0 7735 ± 5.771
10000
9000
8000
7000
6000

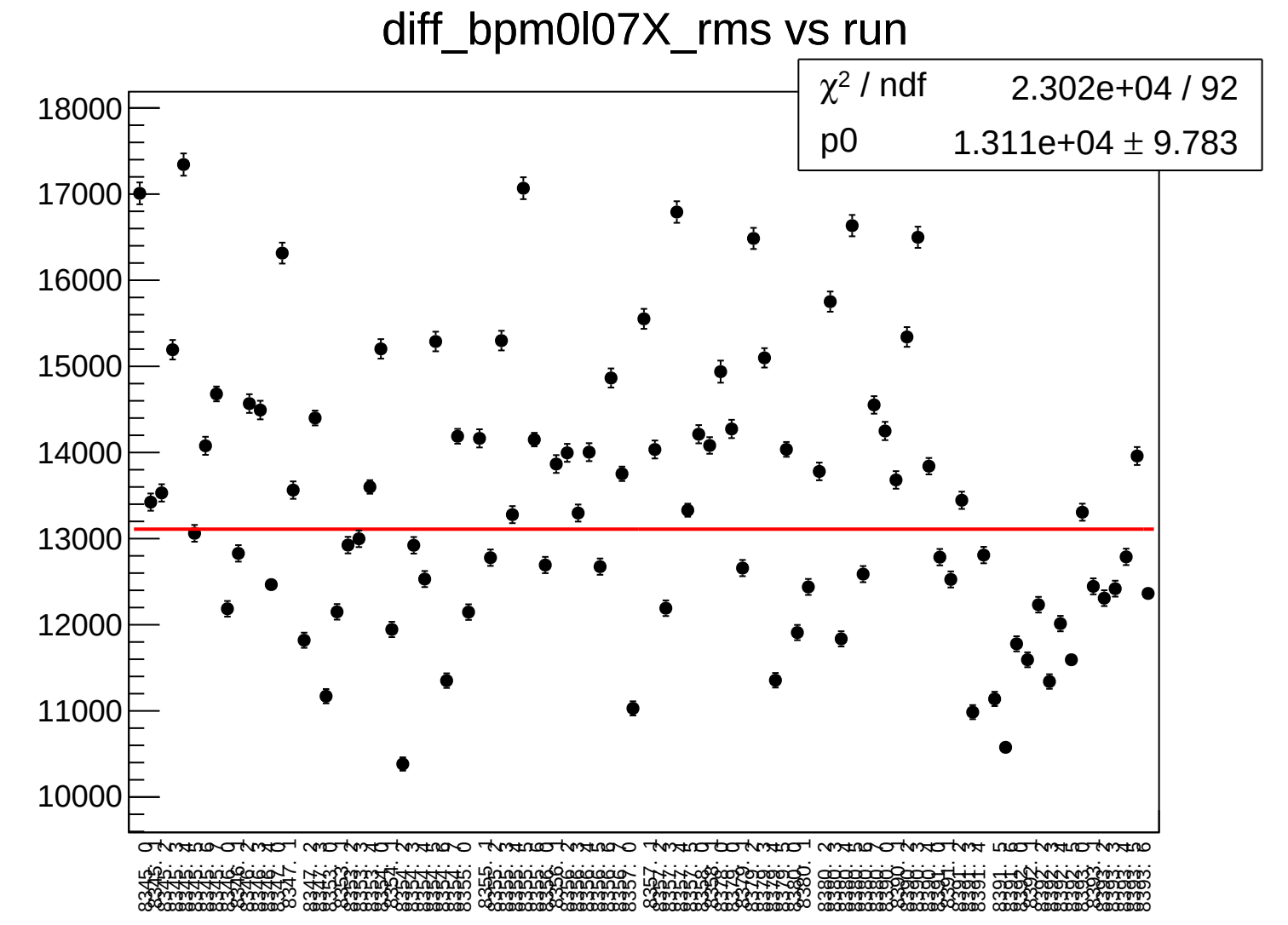

diff_bpm0l06Y_mean vs run
χ² / ndf 139.5 / 92
p0 −3.487 ± 1.024
pull
Entries 93
Mean 473.5
Std Dev 0

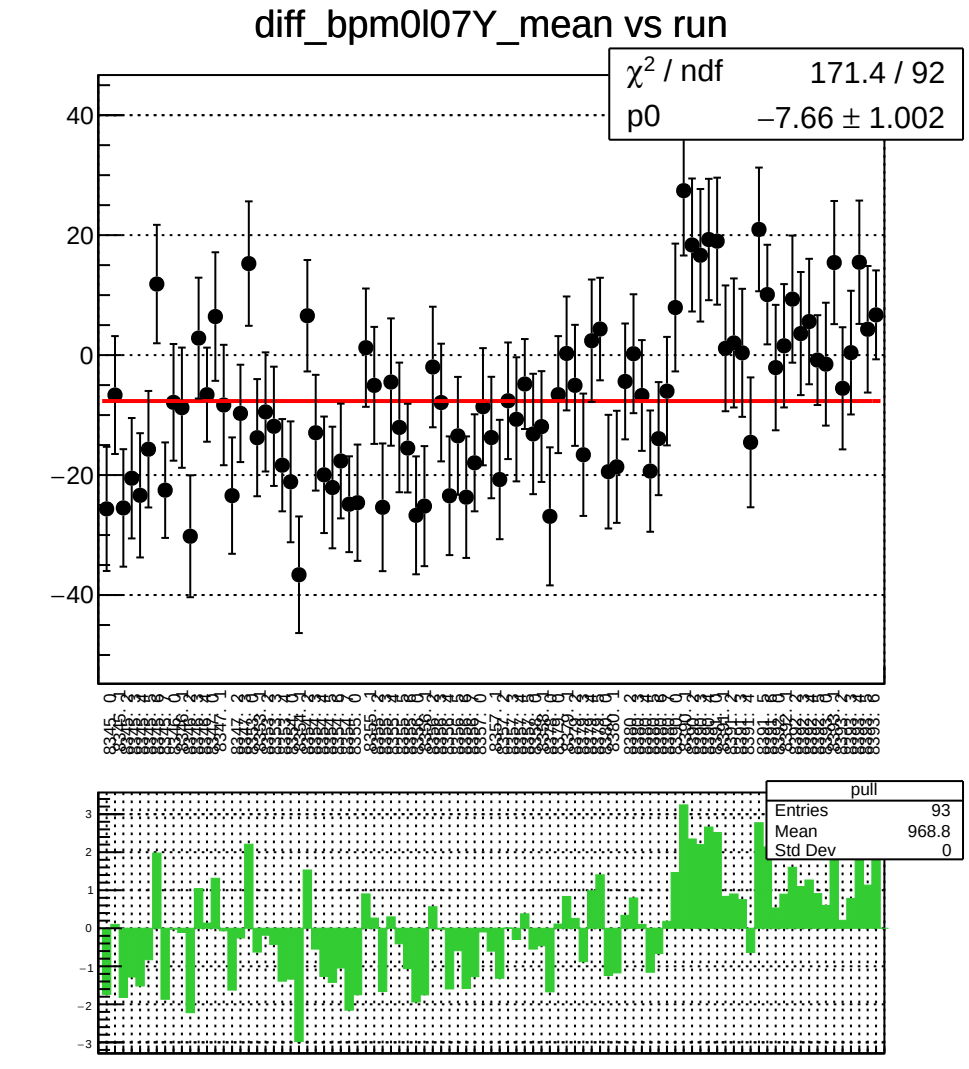

pull1D
Entries 93
Mean 0.01633
Std Dev 1.225

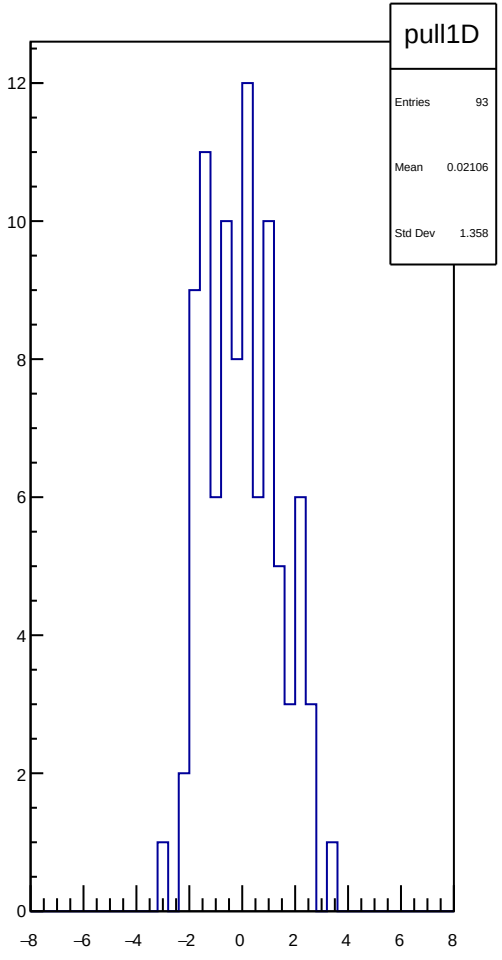

diff_bpm0l06Y_rms vs run
χ² / ndf 4963 / 92
p0 975.3 ± 0.7241
1150
1100
1050
1000
950
900

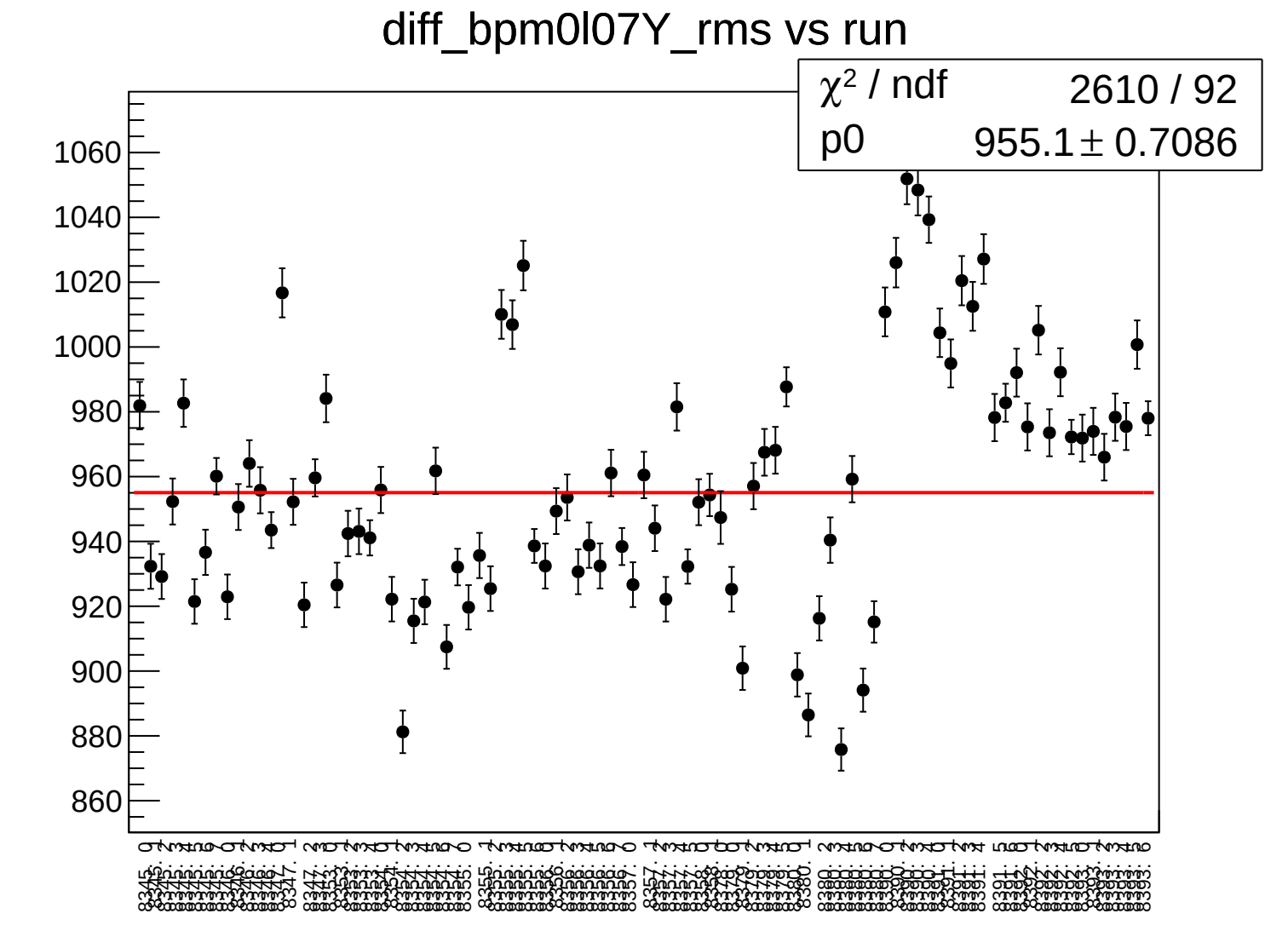

diff_bpm0l07X_mean vs run
χ^2 / ndf 94.53 / 92
p0 −63.29 ± 13.84
pull
Entries 93
Mean 34.87
Std Dev 32.6

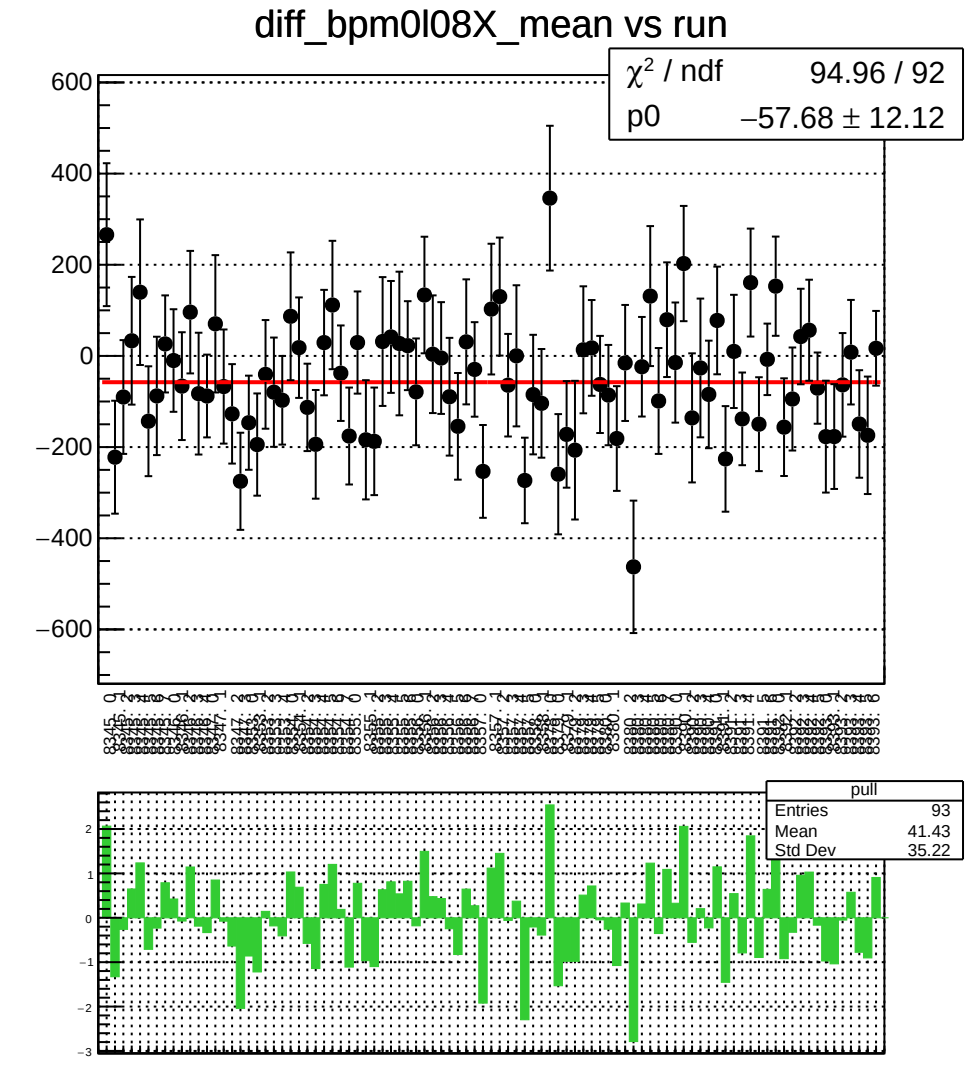

pull1D
Entries 93
Mean 0.03474
Std Dev 1.008

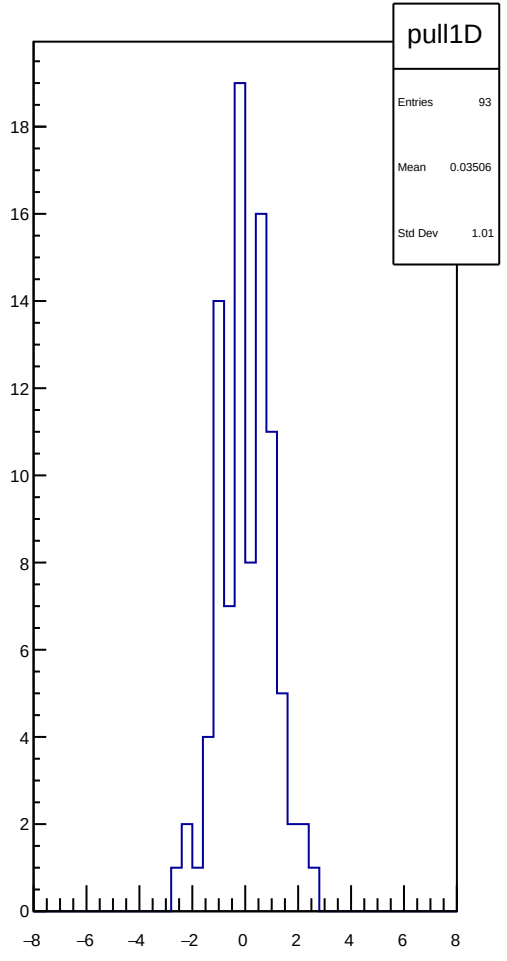

diff_bpm0l07X_rms vs run
χ² / ndf 2.302e+04 / 92
p0 1.311e+04 ± 9.783
18000
17000
16000
15000
14000
13000
12000
11000
10000

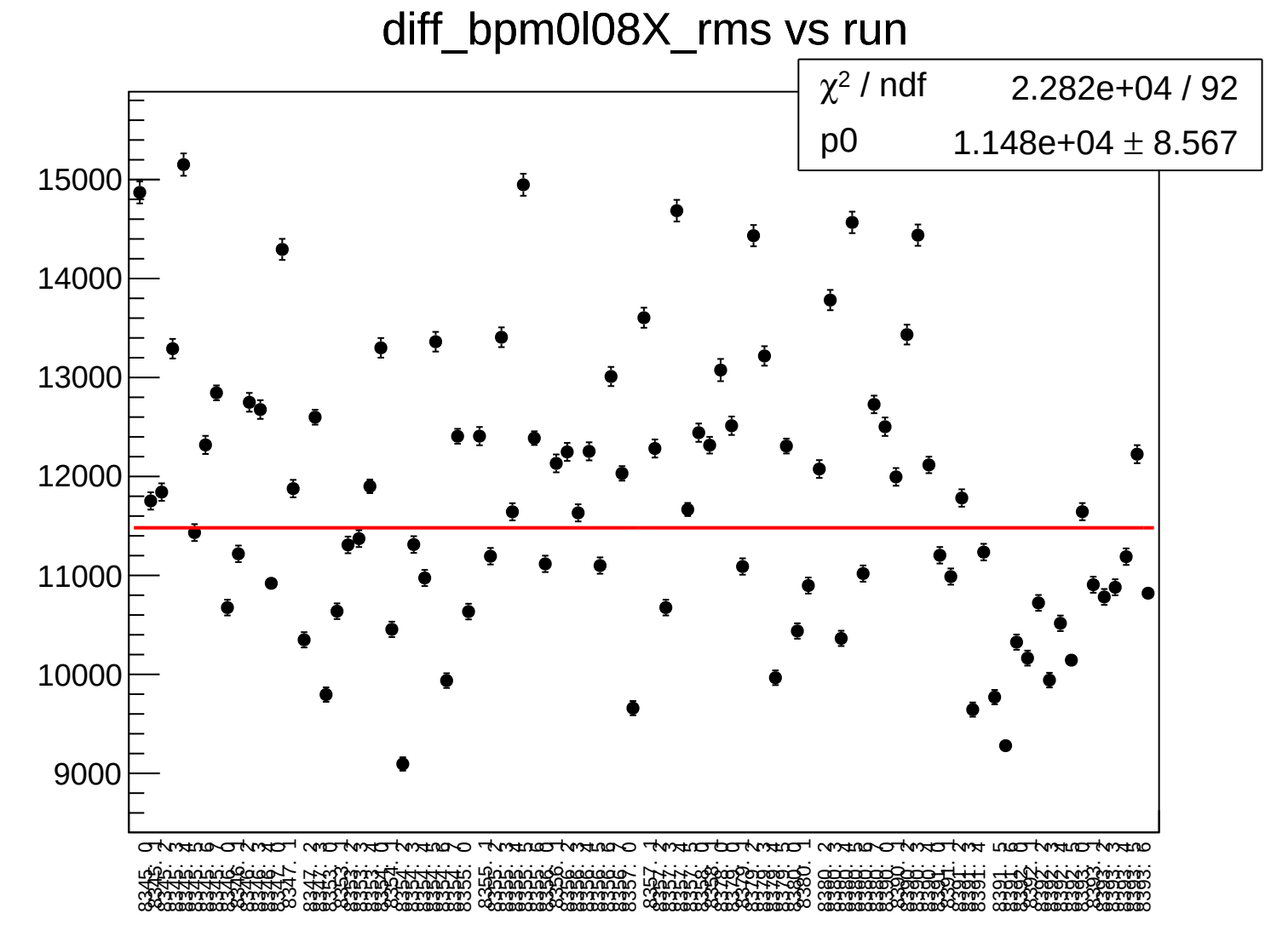

diff_bpm0l07Y_mean vs run
χ² / ndf 171.4 / 92
p0 −7.66 ± 1.002
pull
Entries 93
Mean 968.8
Std Dev 0

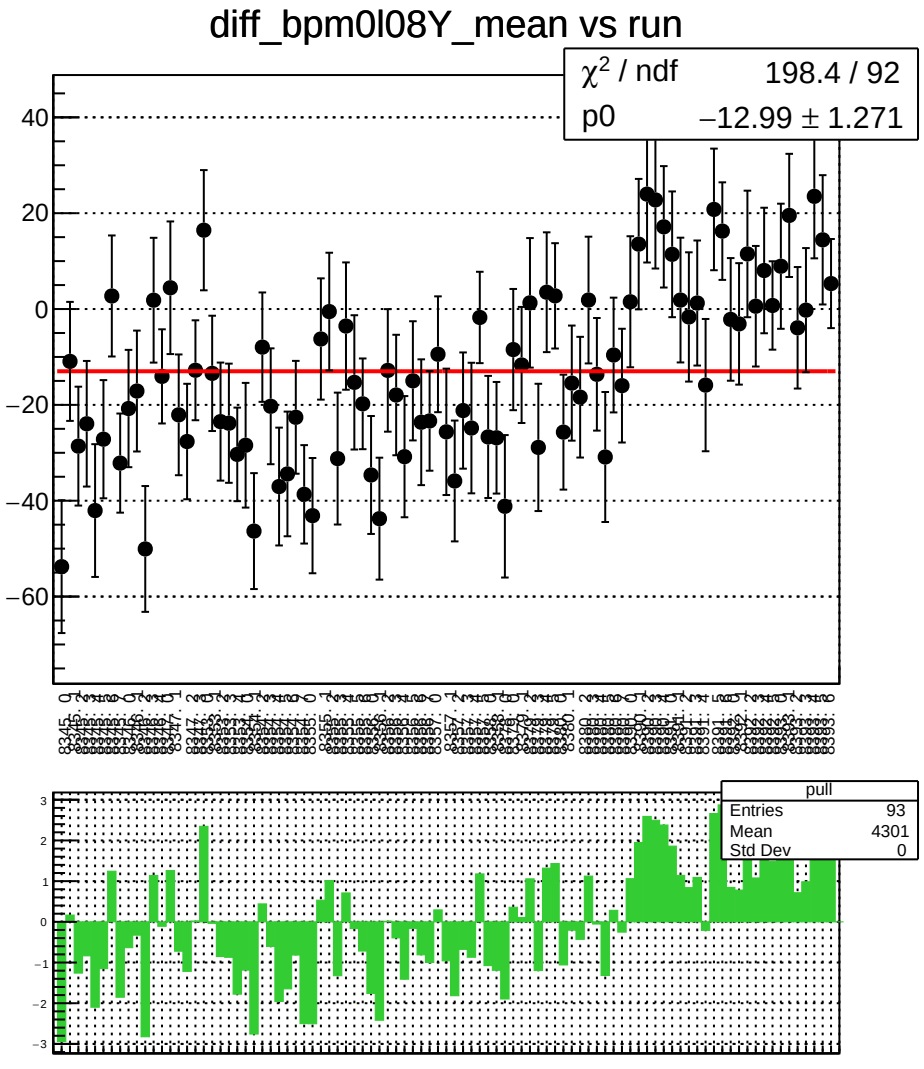

pull1D
Entries 93
Mean 0.02106
Std Dev 1.358

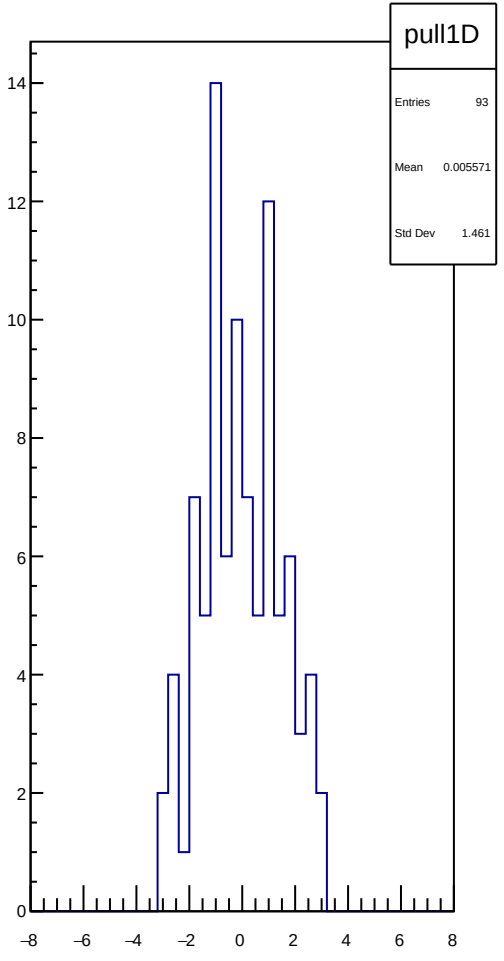

diff_bpm0l07Y_rms vs run
χ² / ndf 2610 / 92
p0 955.1 ± 0.7086
1060
1040
1020
1000
980
960
940
920
900
880
860

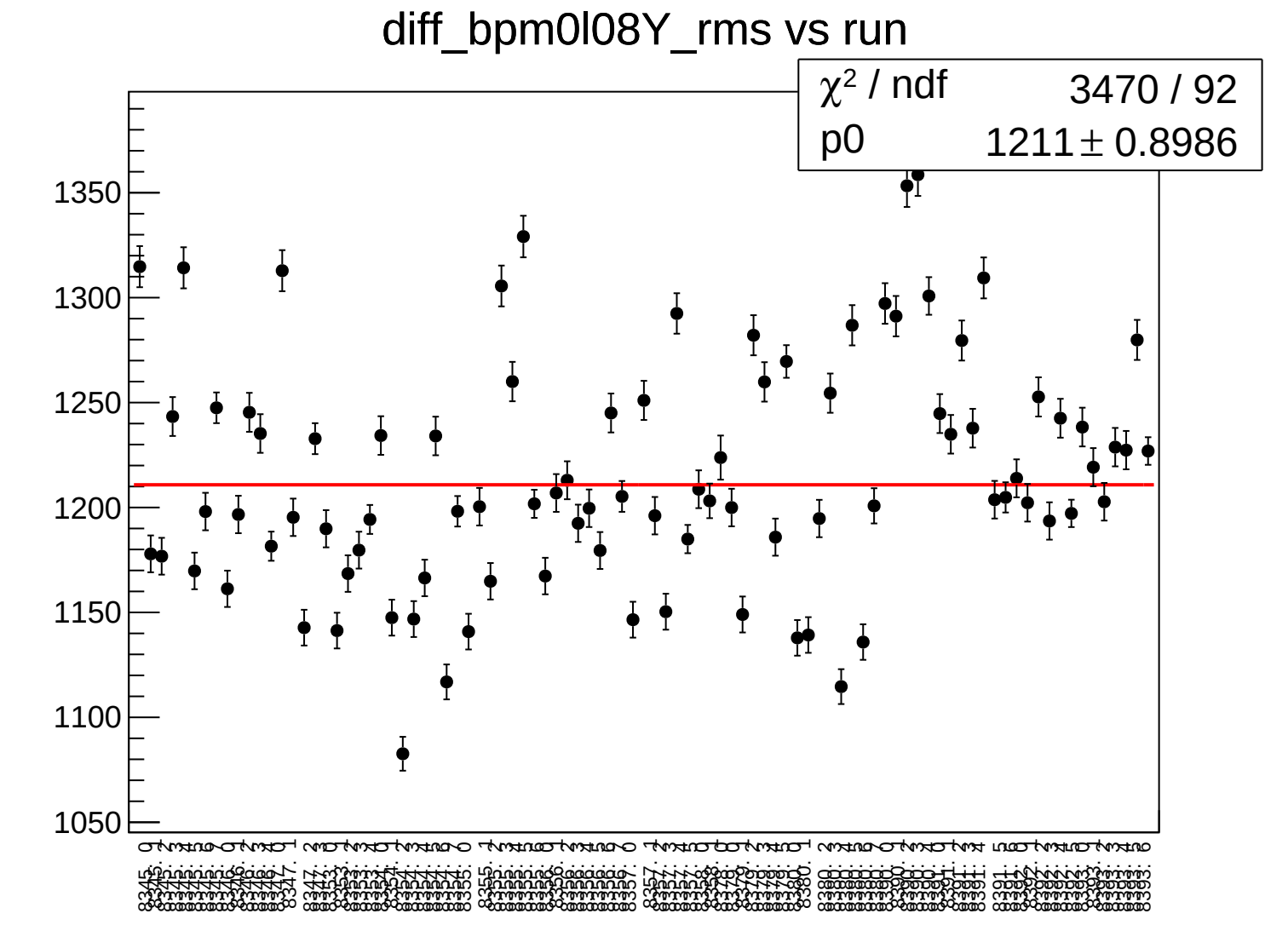

diff_bpm0l08X_mean vs run
χ² / ndf 94.96 / 92
p0 −57.68 ± 12.12
pull
Entries 93
Mean 41.43
Std Dev 35.22

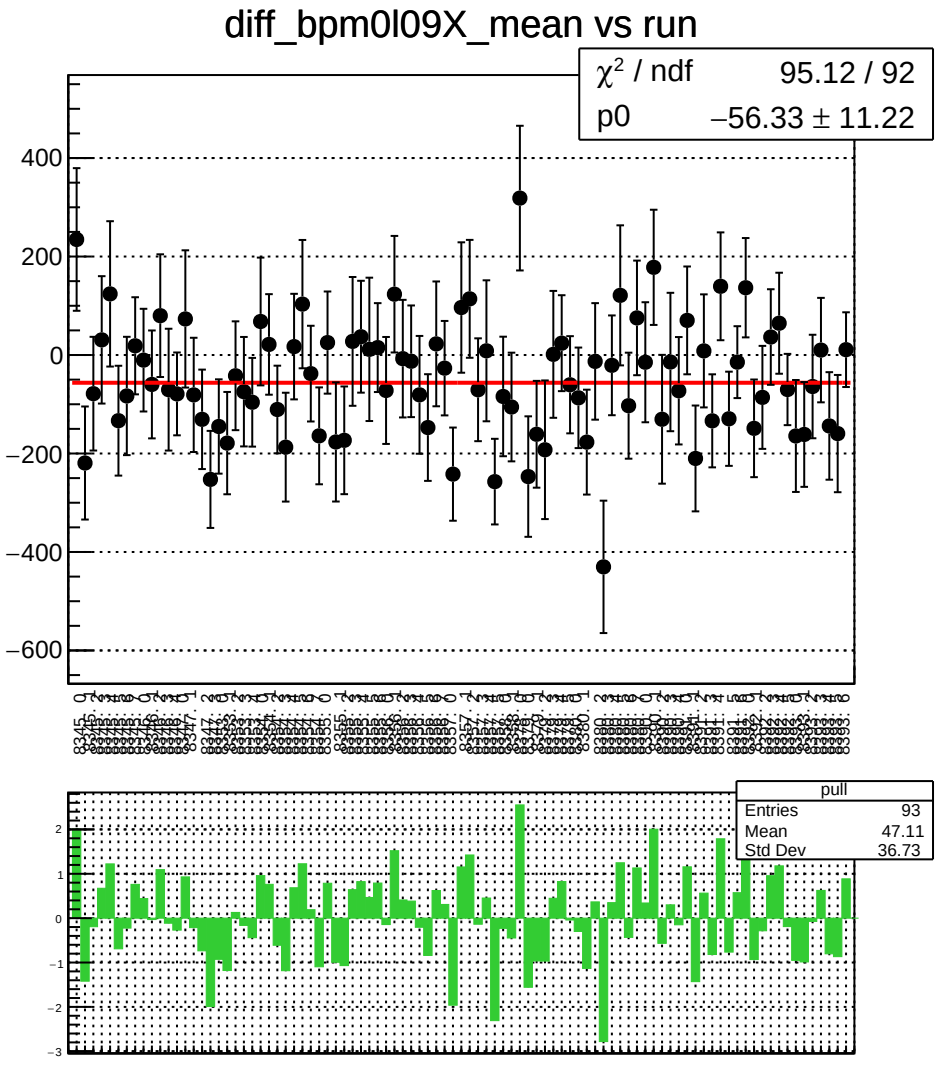

pull1D
Entries 93
Mean 0.03506
Std Dev 1.01

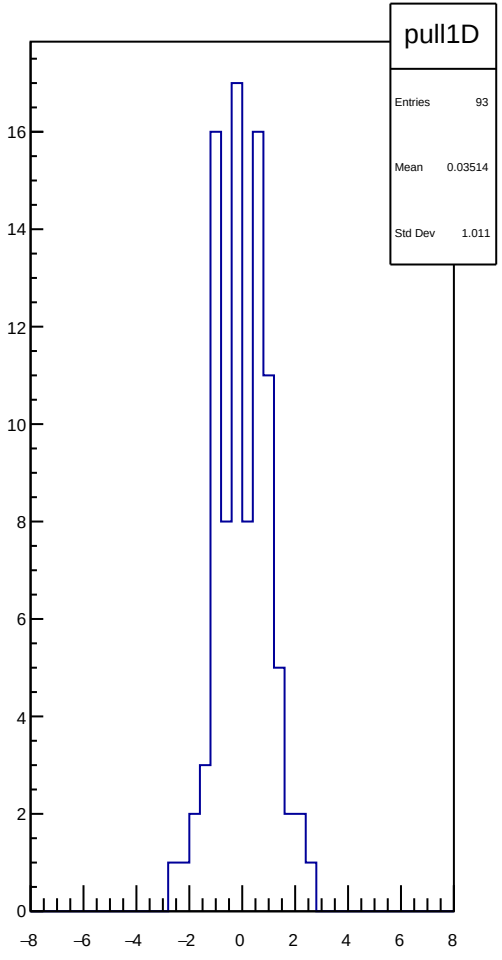

diff_bpm0l08X_rms vs run
χ² / ndf 2.282e+04 / 92
p0 1.148e+04 ± 8.567
15000
14000
13000
12000
11000
10000
9000

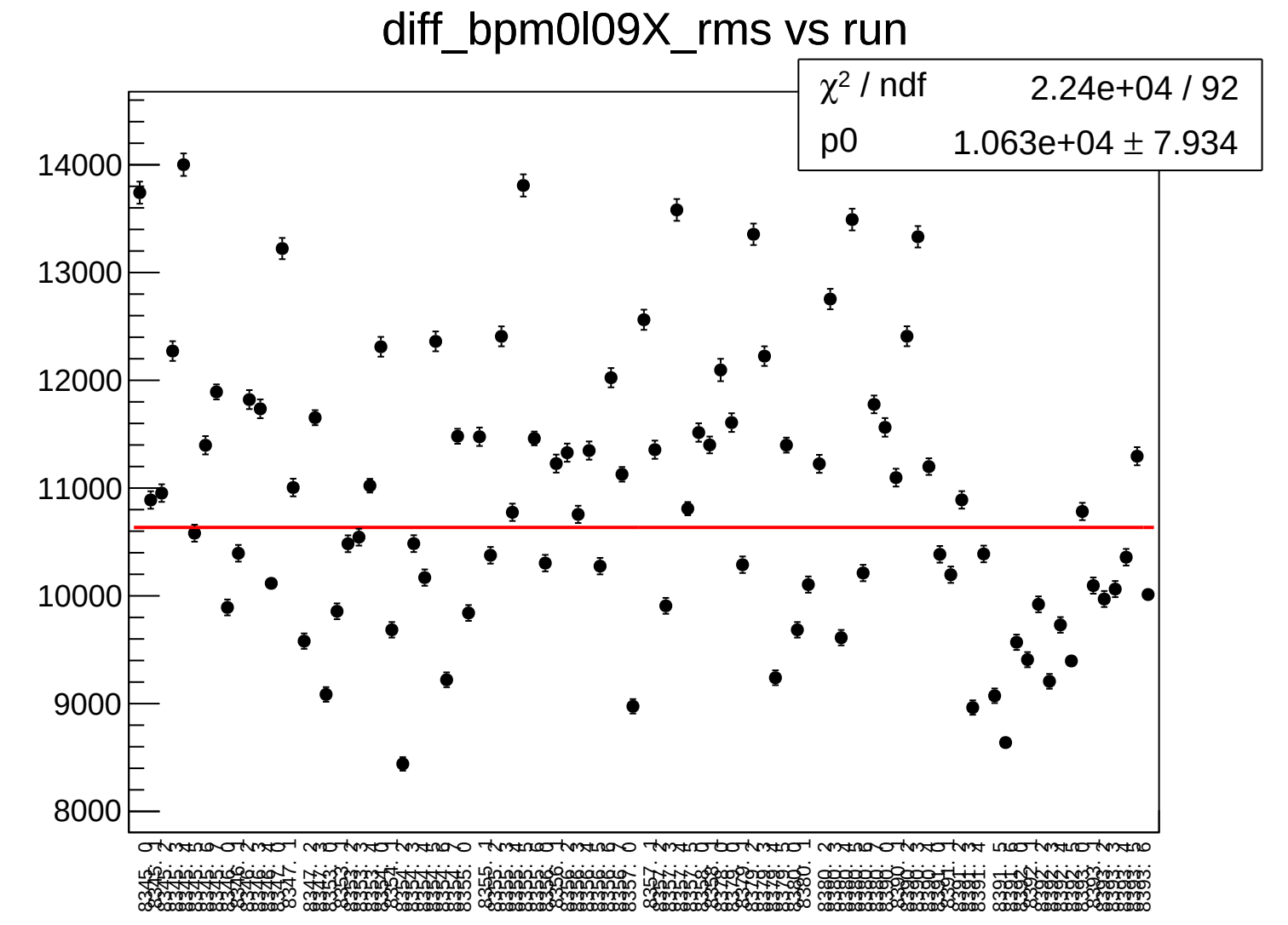

diff_bpm0l08Y_mean vs run
χ² / ndf 198.4 / 92
p0 −12.99 ± 1.271
pull
Entries 93
Mean 4301
Std Dev 0

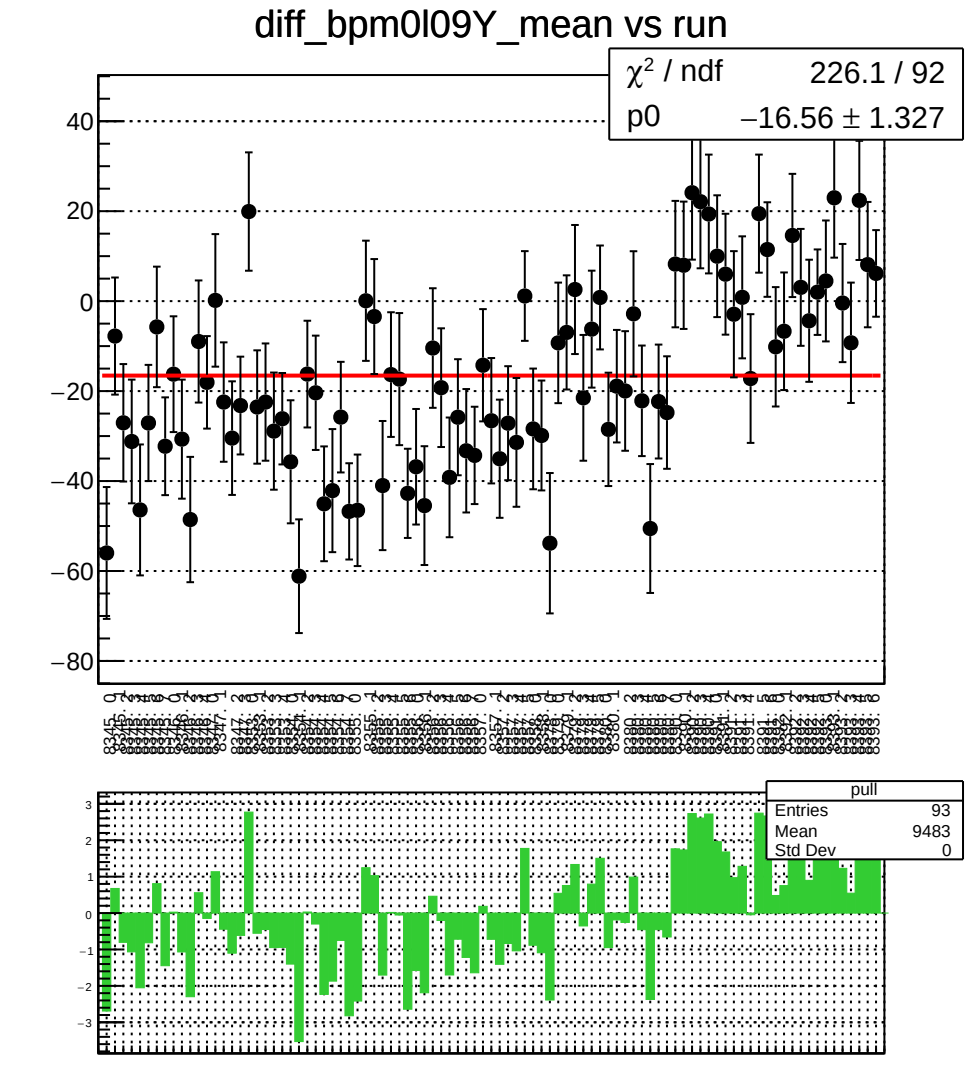

pull1D
Entries 93
Mean 0.005571
Std Dev 1.461

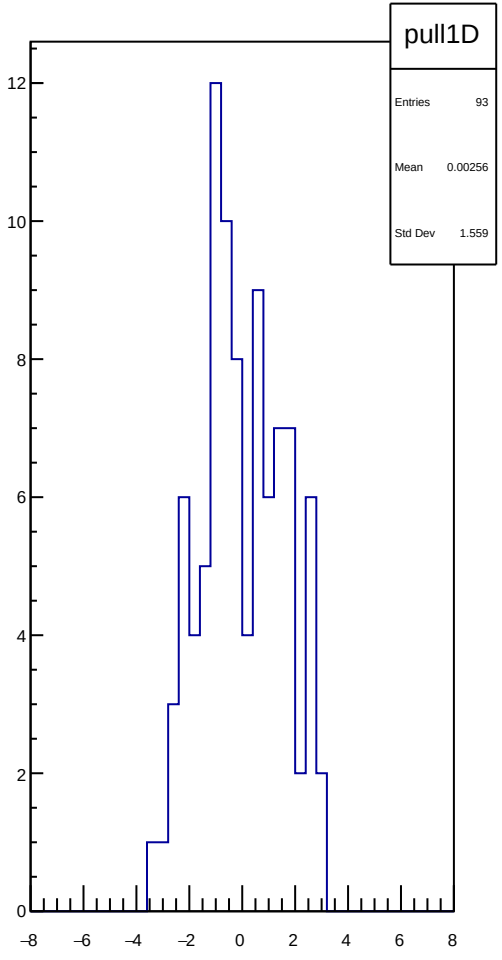

diff_bpm0l08Y_rms vs run
χ² / ndf 3470 / 92
p0 1211 ± 0.8986
1350
1300
1250
1200
1150
1100
1050

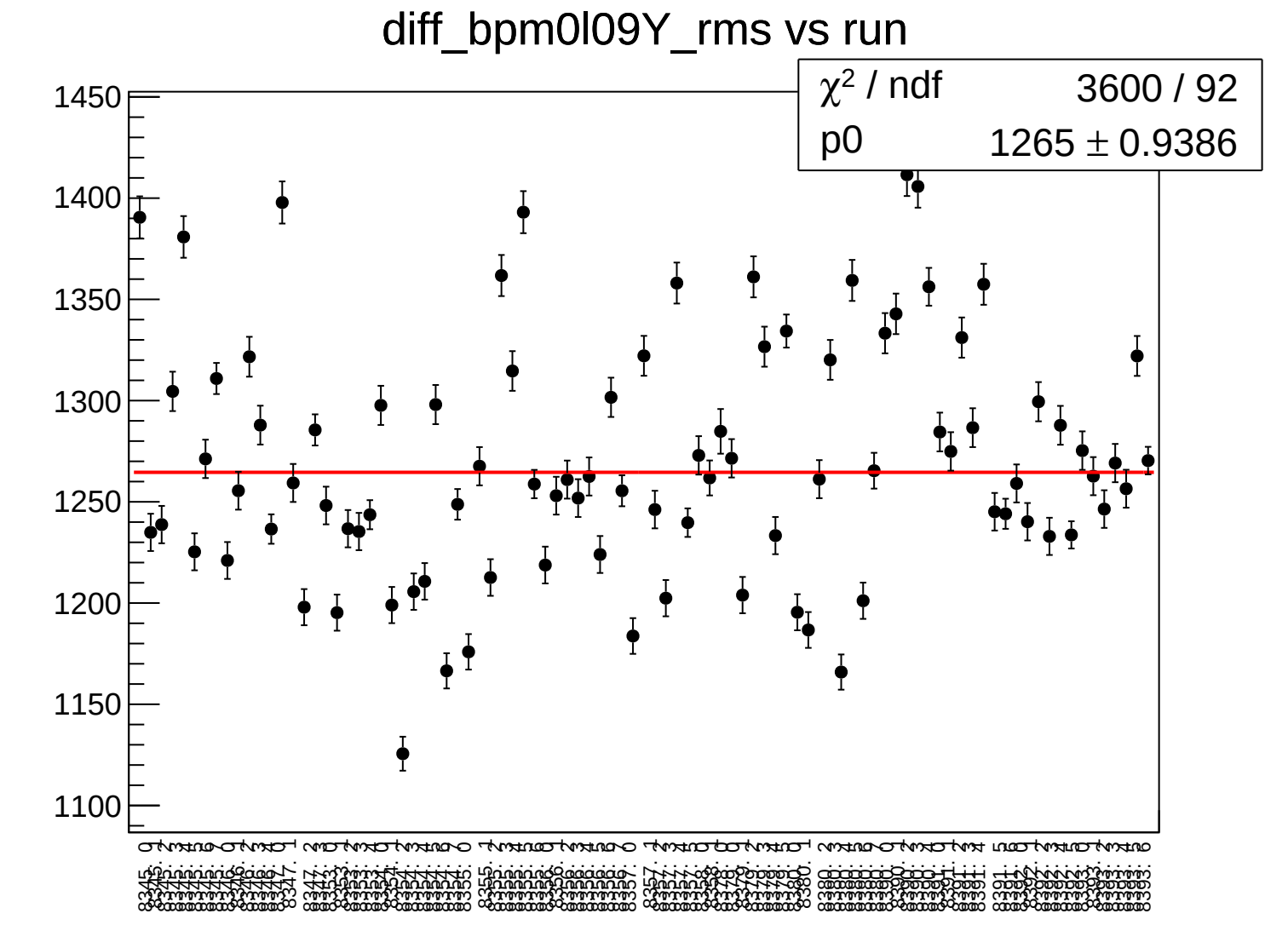

diff_bpm0l09X_mean vs run
χ² / ndf 95.12 / 92
p0 −56.33 ± 11.22
400
200
0
−200
−400
−600
pull
Entries 93
Mean 47.11
Std Dev 36.73
2
1
0
−1
−2
−3

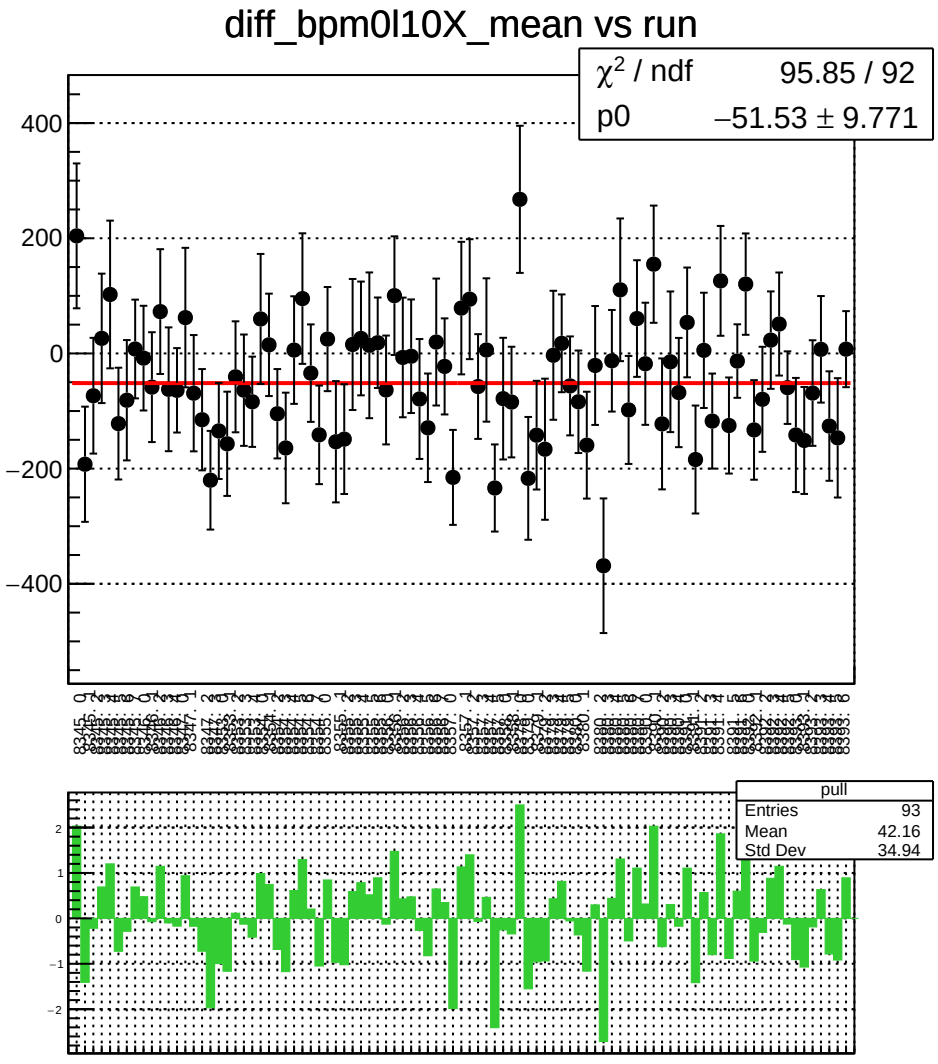

pull1D
Entries 93
Mean 0.03514
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

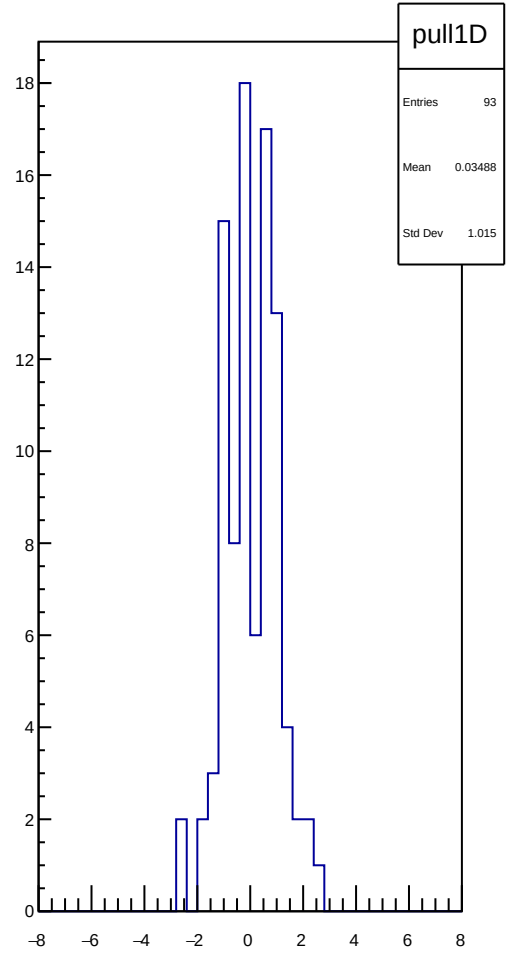

diff_bpm0l09X_rms vs run
χ² / ndf 2.24e+04 / 92
p0 1.063e+04 ± 7.934
14000
13000
12000
11000
10000
9000
8000

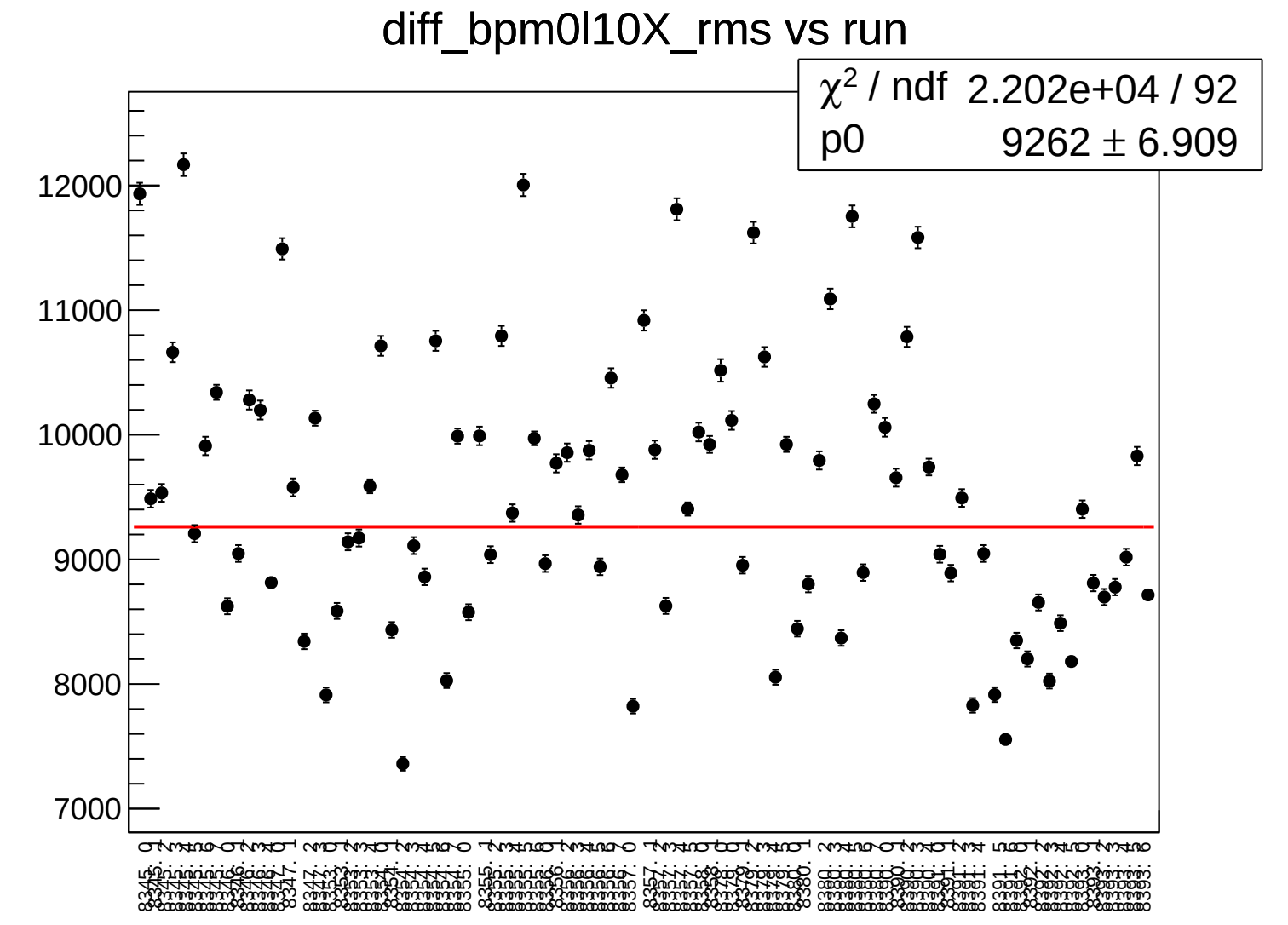

diff_bpm0l09Y_mean vs run
χ² / ndf 226.1 / 92
p0 −16.56 ± 1.327
pull
Entries 93
Mean 9483
Std Dev 0

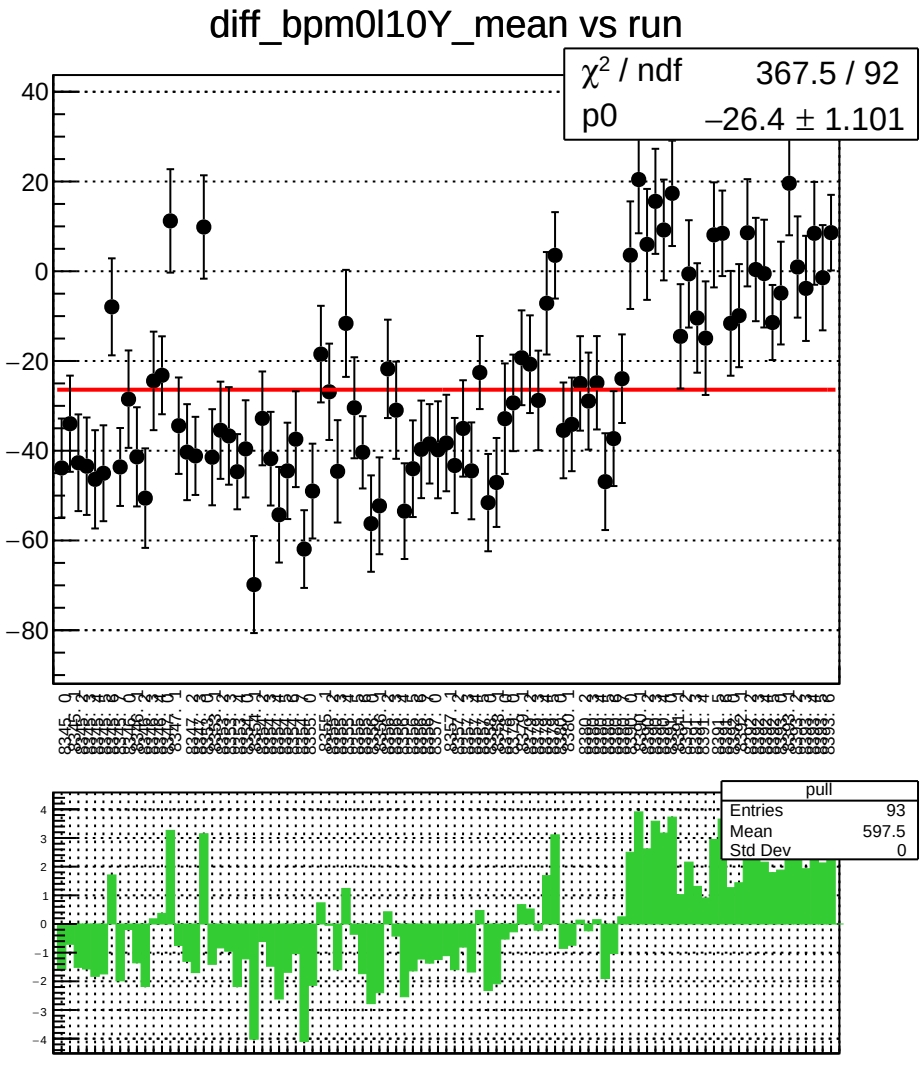

pull1D
Entries 93
Mean 0.00256
Std Dev 1.559

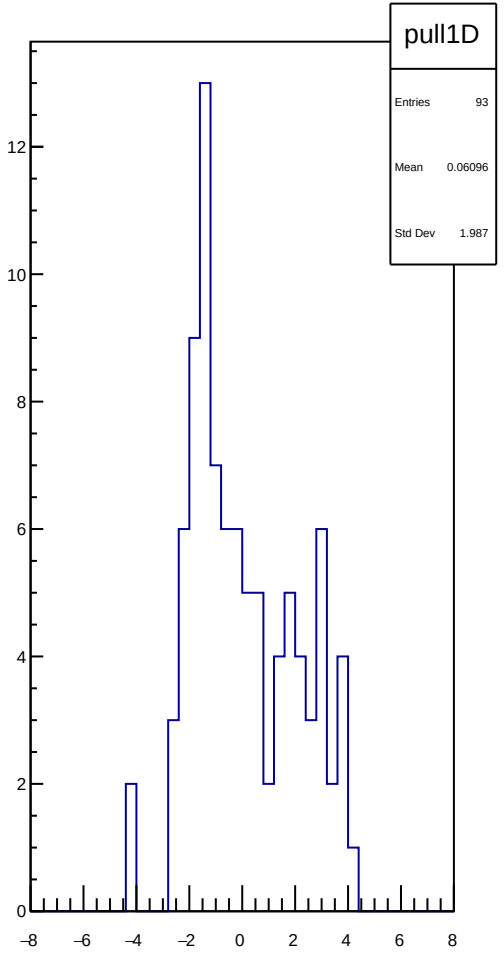

diff_bpm0l09Y_rms vs run
χ² / ndf 3600 / 92
p0 1265 ± 0.9386
1450
1400
1350
1300
1250
1200
1150
1100

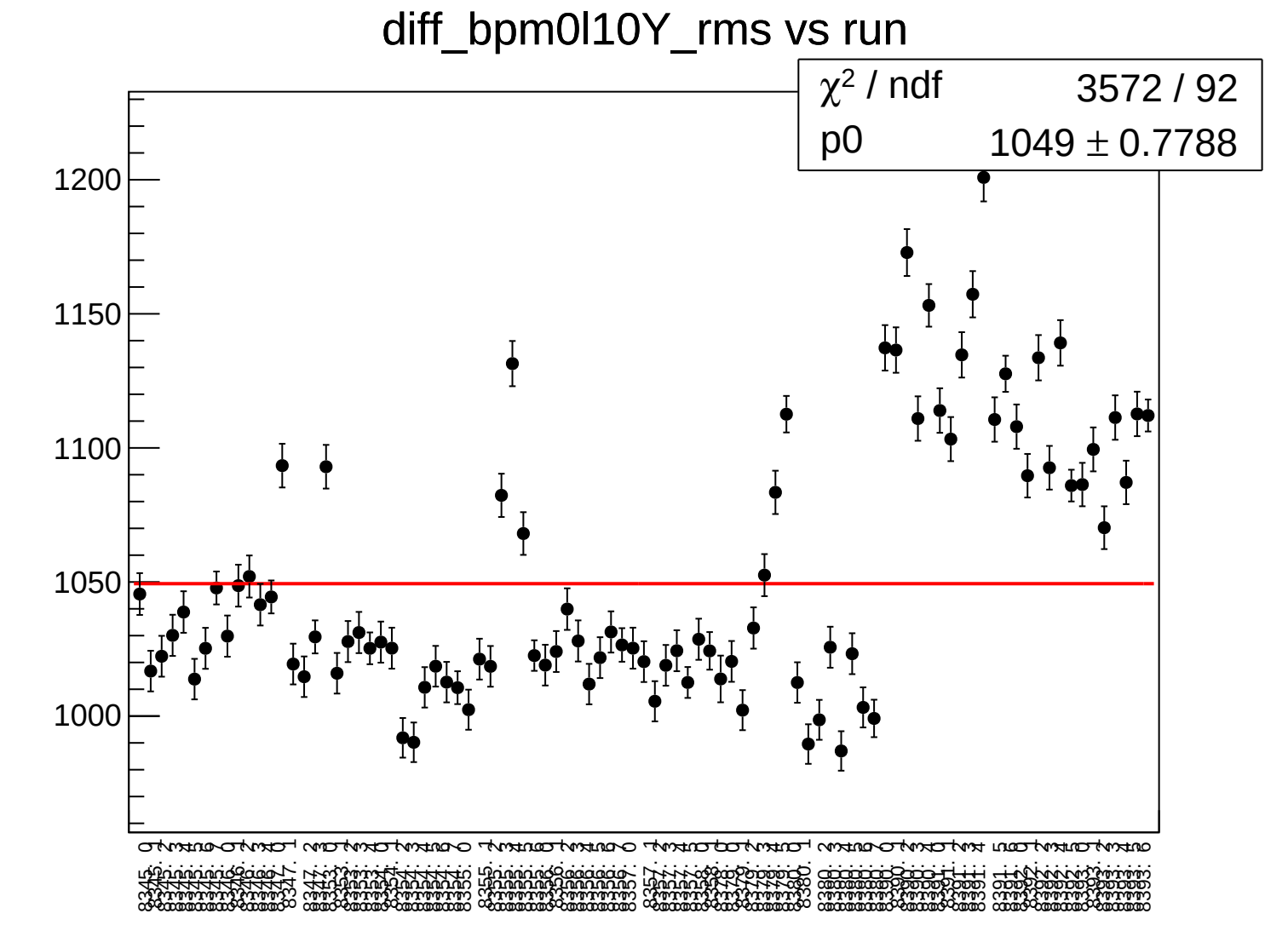

diff_bpm0l10X_mean vs run
χ² / ndf 95.85 / 92
p0 −51.53 ± 9.771
400
200
0
−200
−400
pull
Entries 93
Mean 42.16
Std Dev 34.94
2
1
0
−1
−2

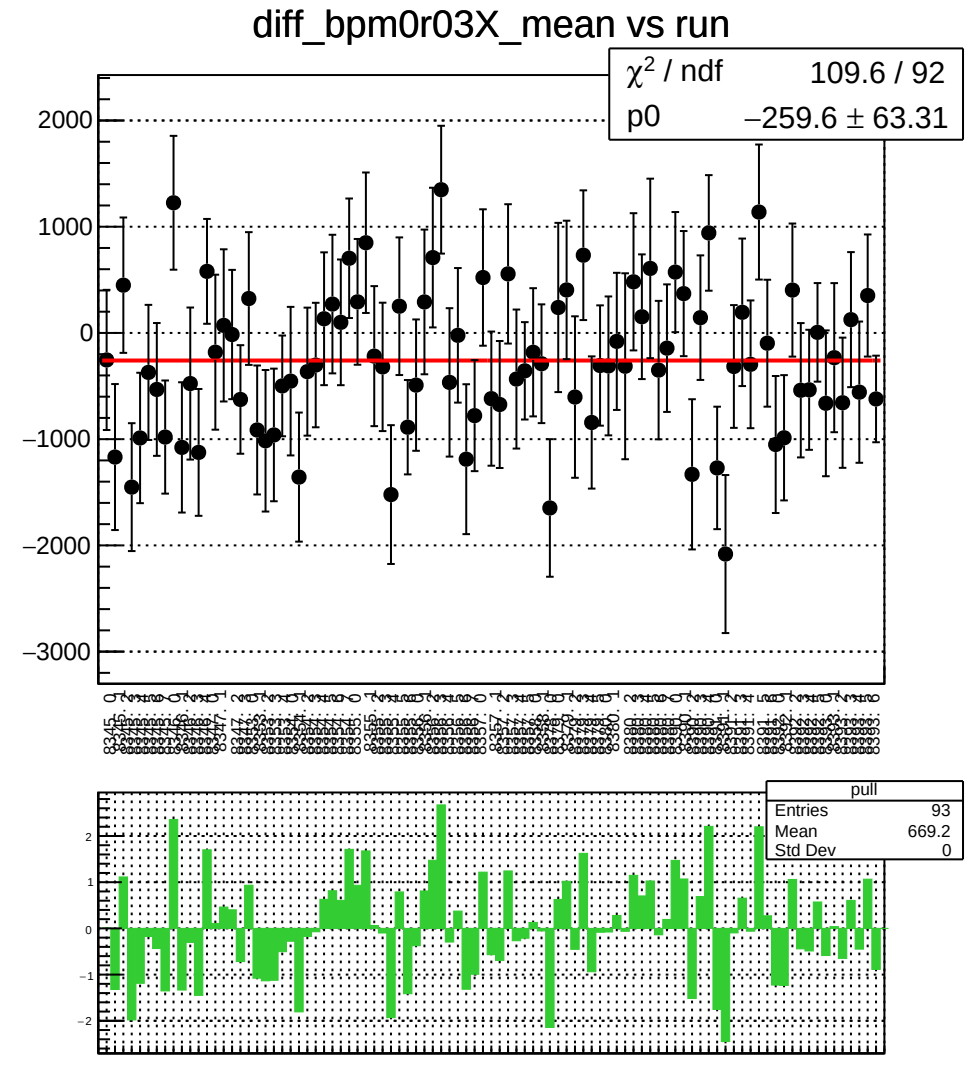

pull1D
Entries 93
Mean 0.03488
Std Dev 1.015
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

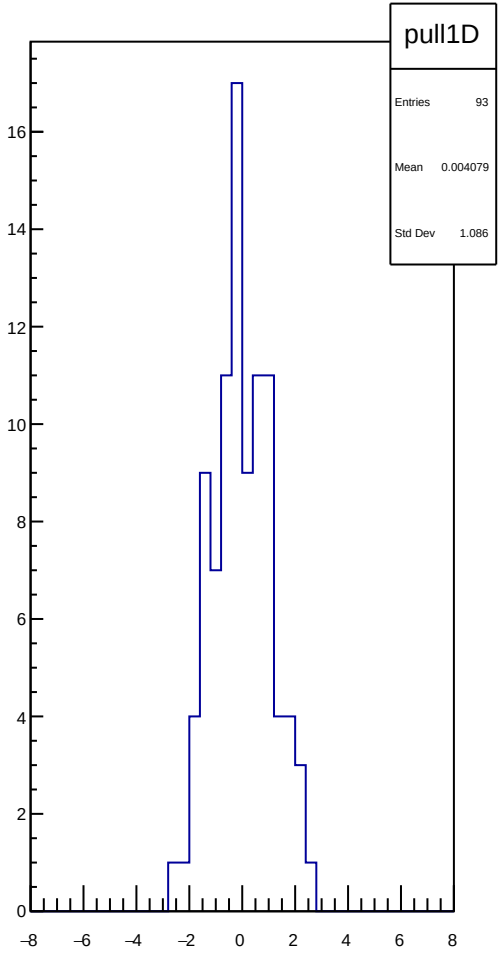

diff_bpm0l10X_rms vs run
χ² / ndf 2.202e+04 / 92
p0 9262 ± 6.909
12000
11000
10000
9000
8000
7000

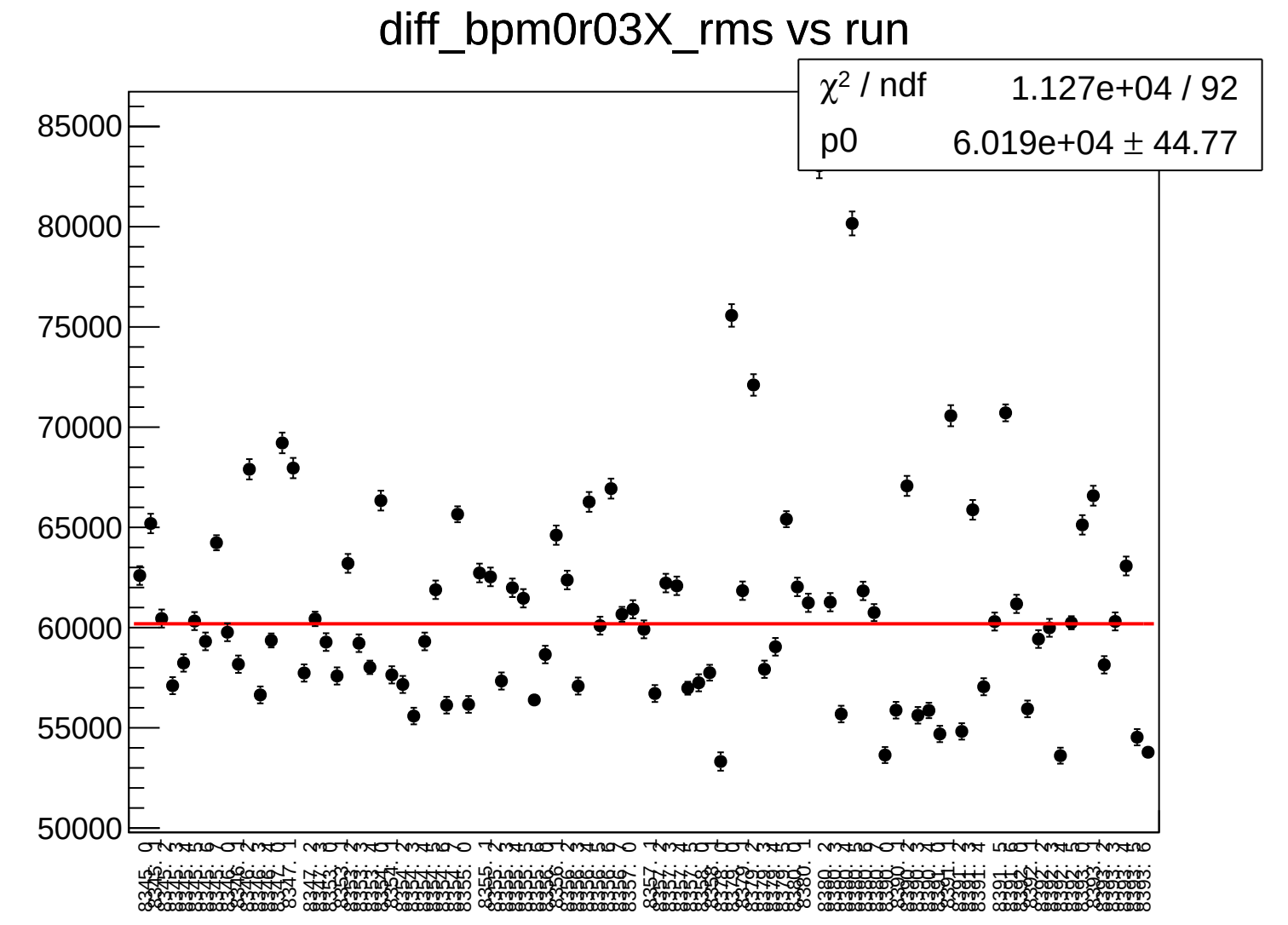

diff_bpm0l10Y_mean vs run
χ² / ndf 367.5 / 92
p0 −26.4 ± 1.101
pull
Entries 93
Mean 597.5
Std Dev 0

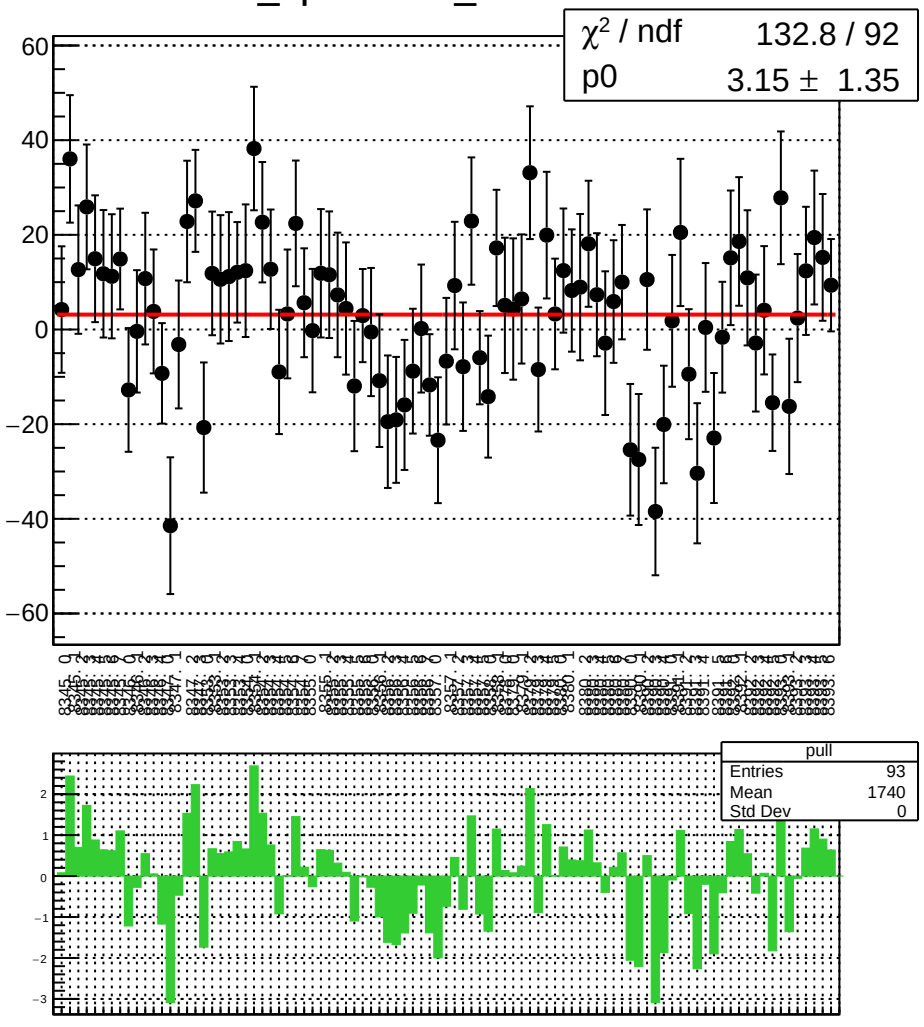

pull1D
Entries 93
Mean 0.06096
Std Dev 1.987

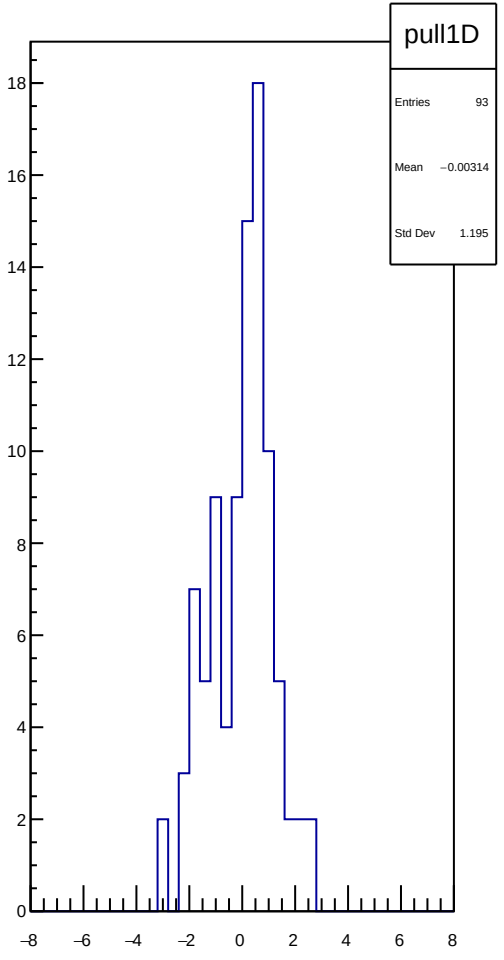

diff_bpm0l10Y_rms vs run
χ² / ndf 3572 / 92
p0 1049 ± 0.7788
1200
1150
1100
1050
1000

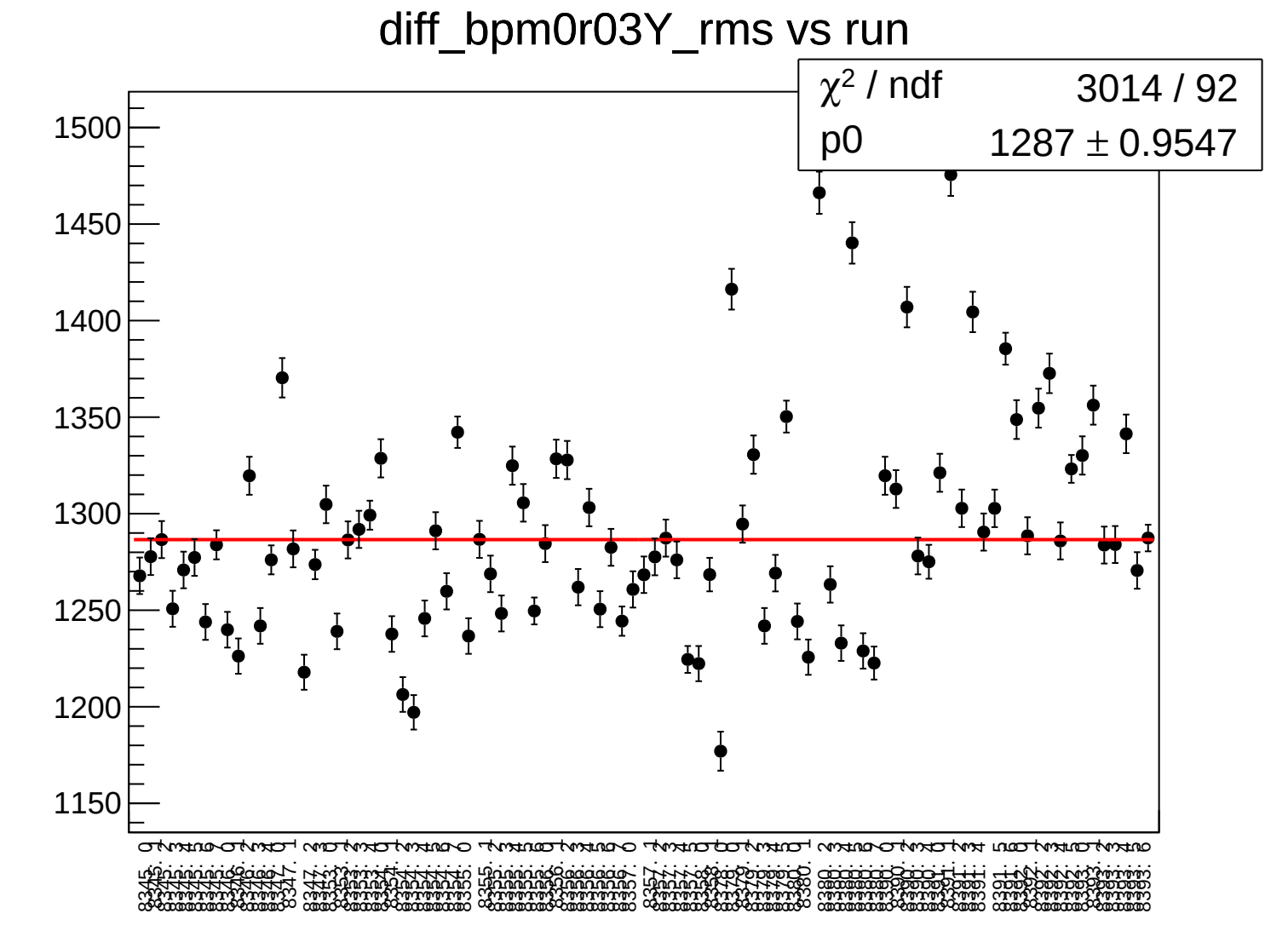

diff_bpm0r03X_mean vs run
χ² / ndf 109.6 / 92
p0 −259.6 ± 63.31
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean 669.2
Std Dev 0
2
1
0
−1
−2

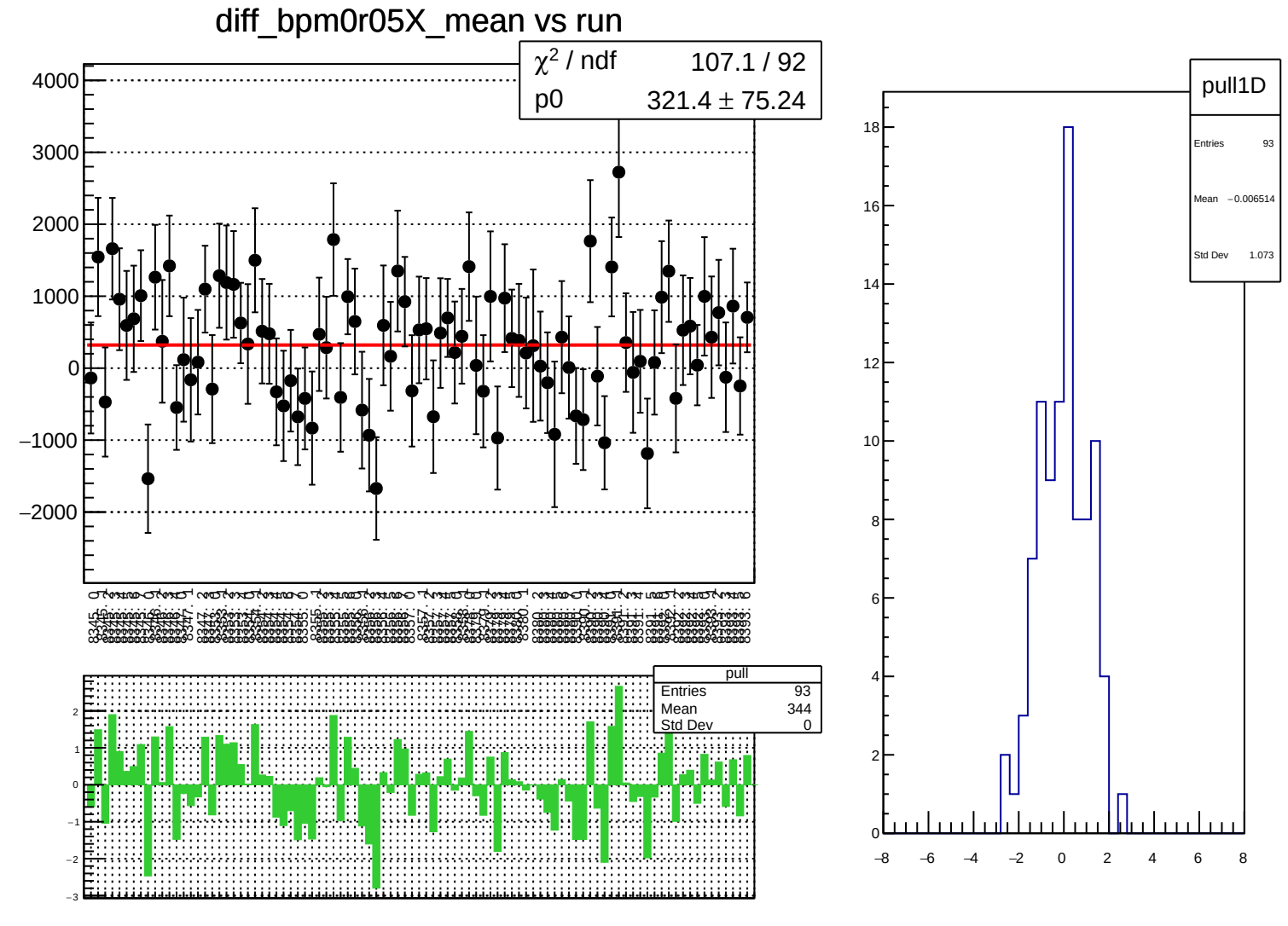

pull1D
Entries 93
Mean 0.004079
Std Dev 1.086
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

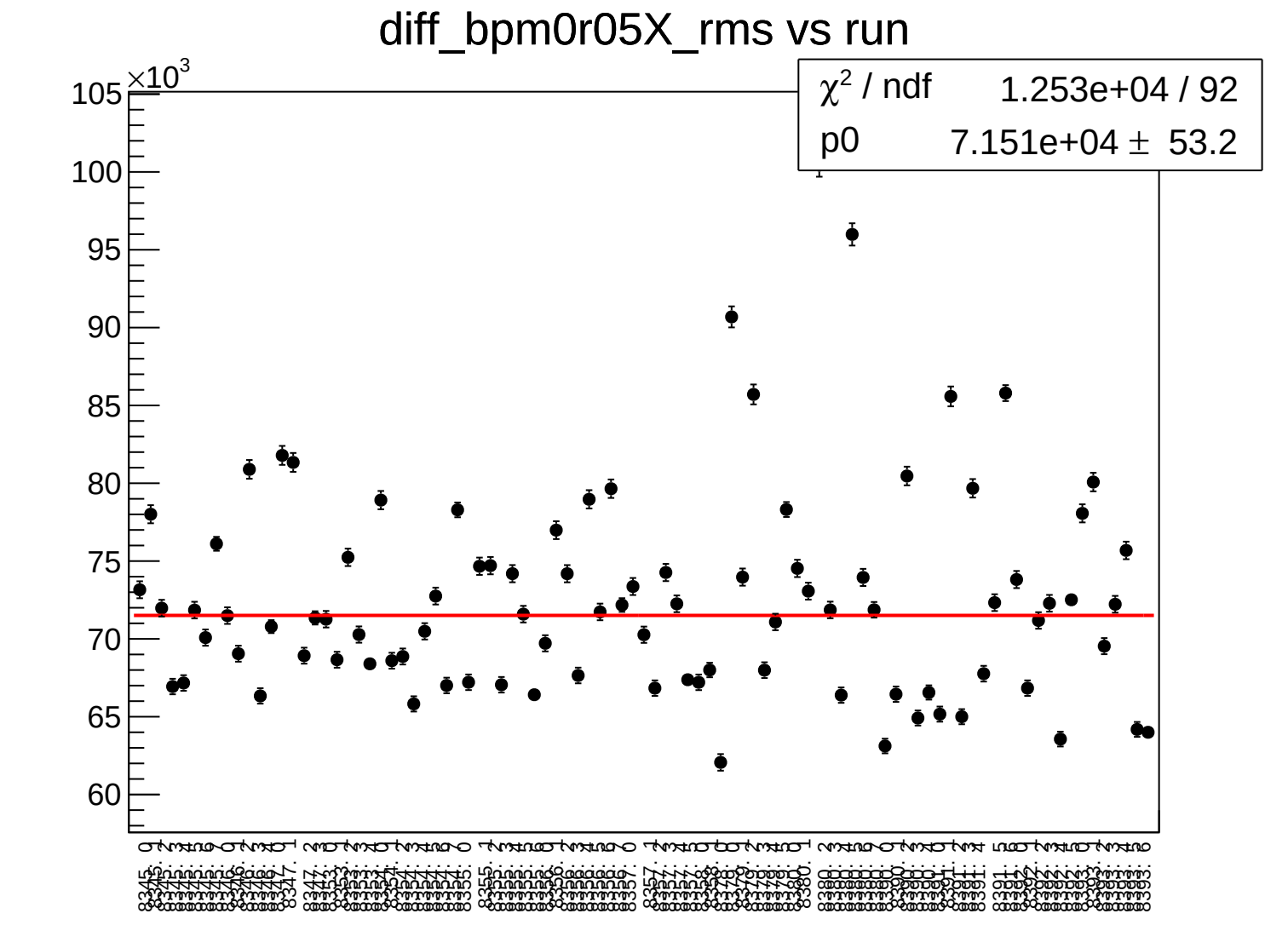

diff_bpm0r03X_rms vs run
χ² / ndf 1.127e+04 / 92
p0 6.019e+04 ± 44.77
85000
80000
75000
70000
65000
60000
55000
50000

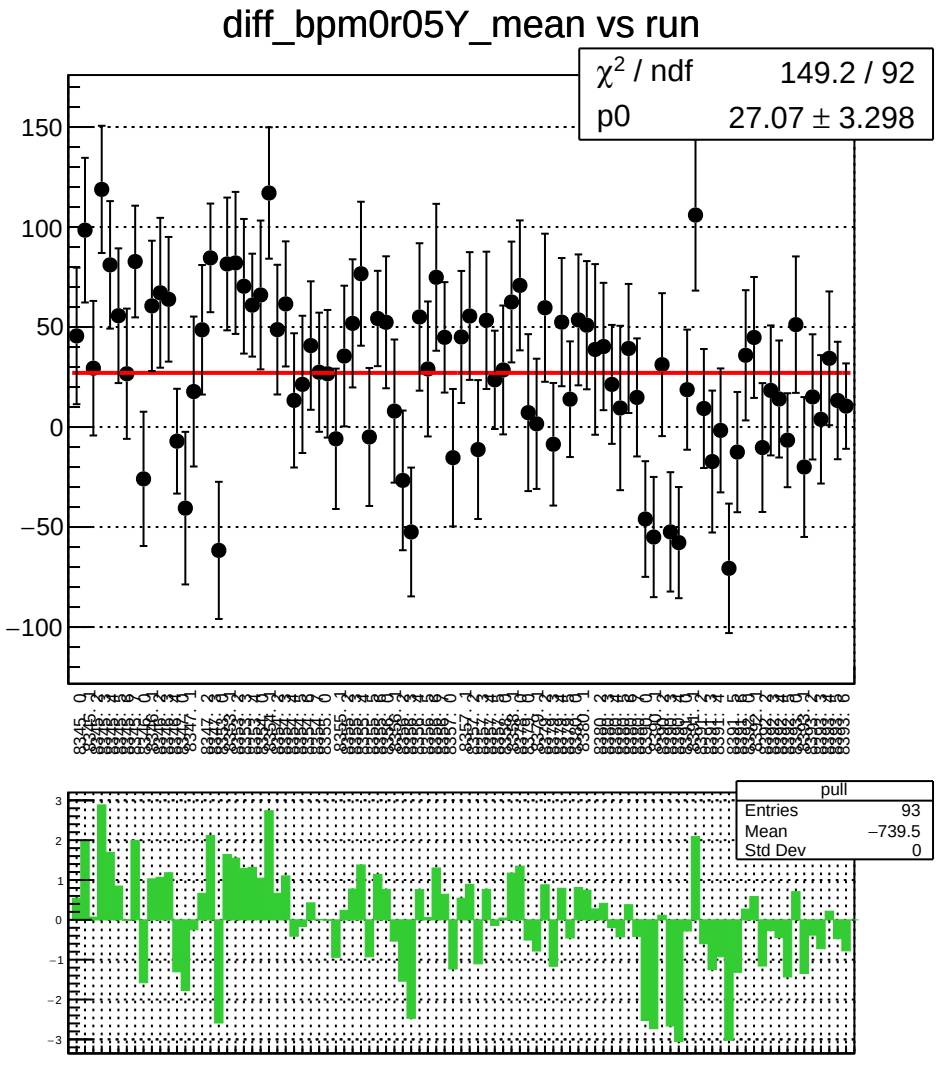

diff_bpm0r03Y_mean vs run
χ² / ndf 132.8 / 92
p0 3.15 ± 1.35
pull
Entries 93
Mean 1740
Std Dev 0

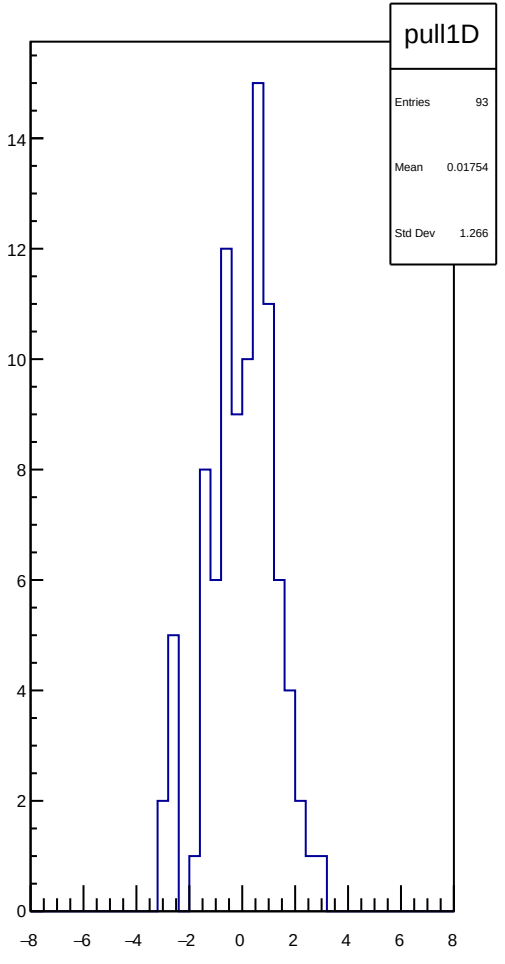

pull1D
Entries 93
Mean −0.00314
Std Dev 1.195

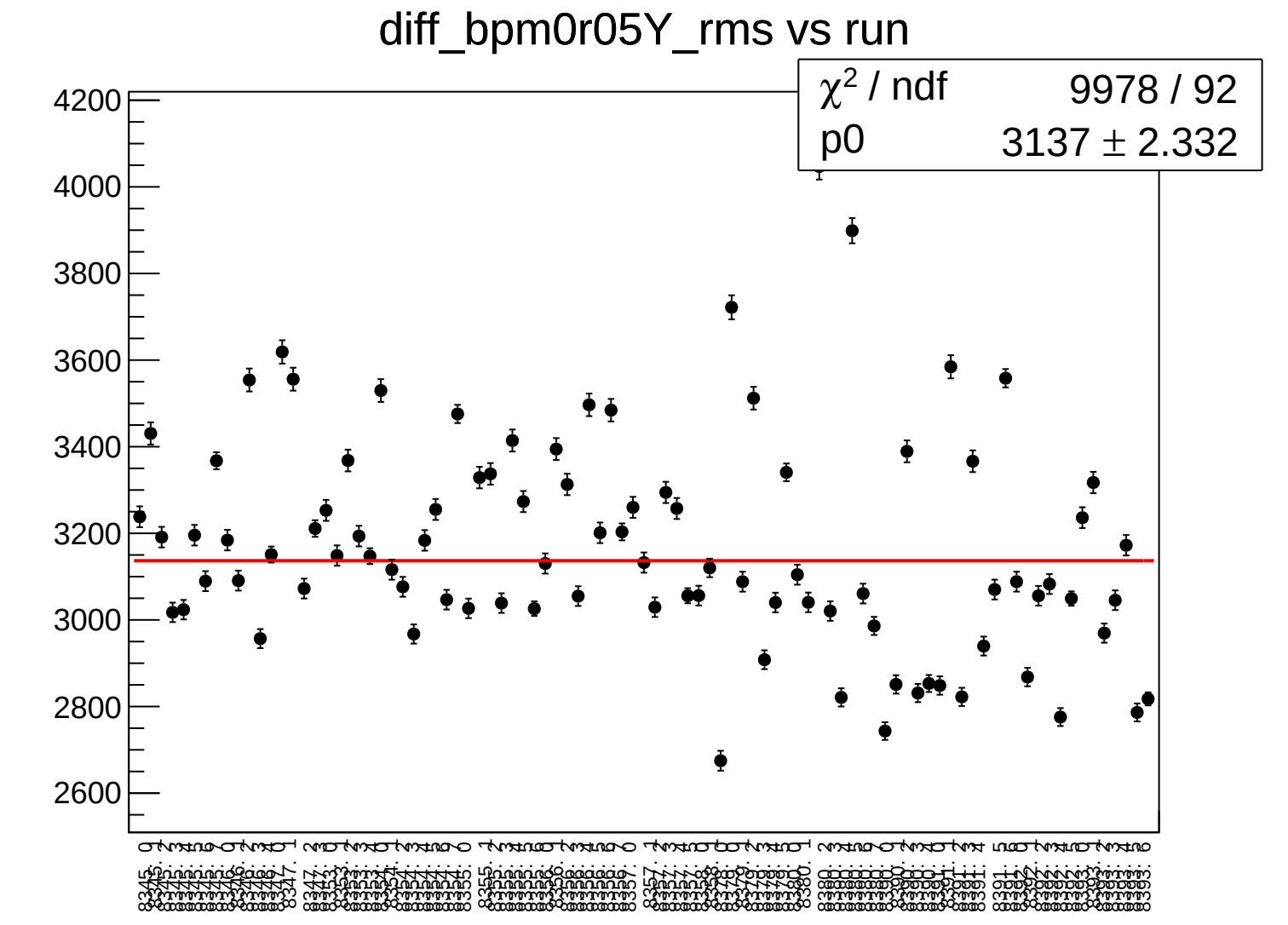

diff_bpm0r03Y_rms vs run
χ² / ndf 3014 / 92
p0 1287 ± 0.9547
1500
1450
1400
1350
1300
1250
1200
1150

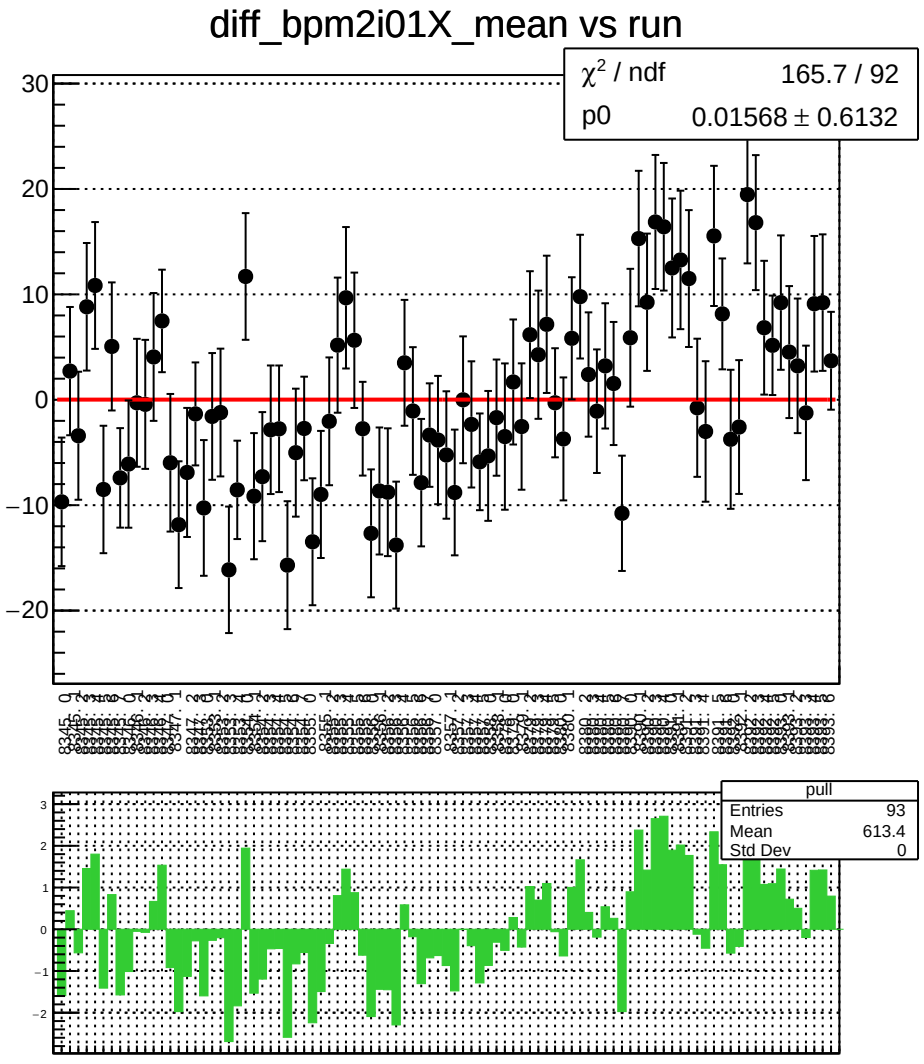

diff_bpm0r05X_mean vs run
χ² / ndf 107.1 / 92
p0 321.4 ± 75.24
pull
Entries 93
Mean 344
Std Dev 0
pull1D
Entries 93
Mean −0.006514
Std Dev 1.073

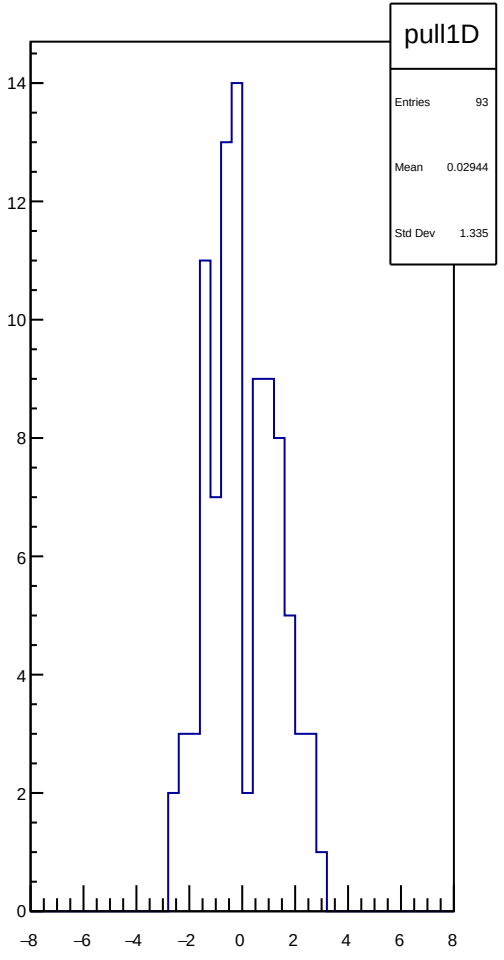

diff_bpm0r05X_rms vs run
×10^3
105
100
95
90
85
80
75
70
65
60
χ² / ndf 1.253e+04 / 92
p0 7.151e+04 ± 53.2

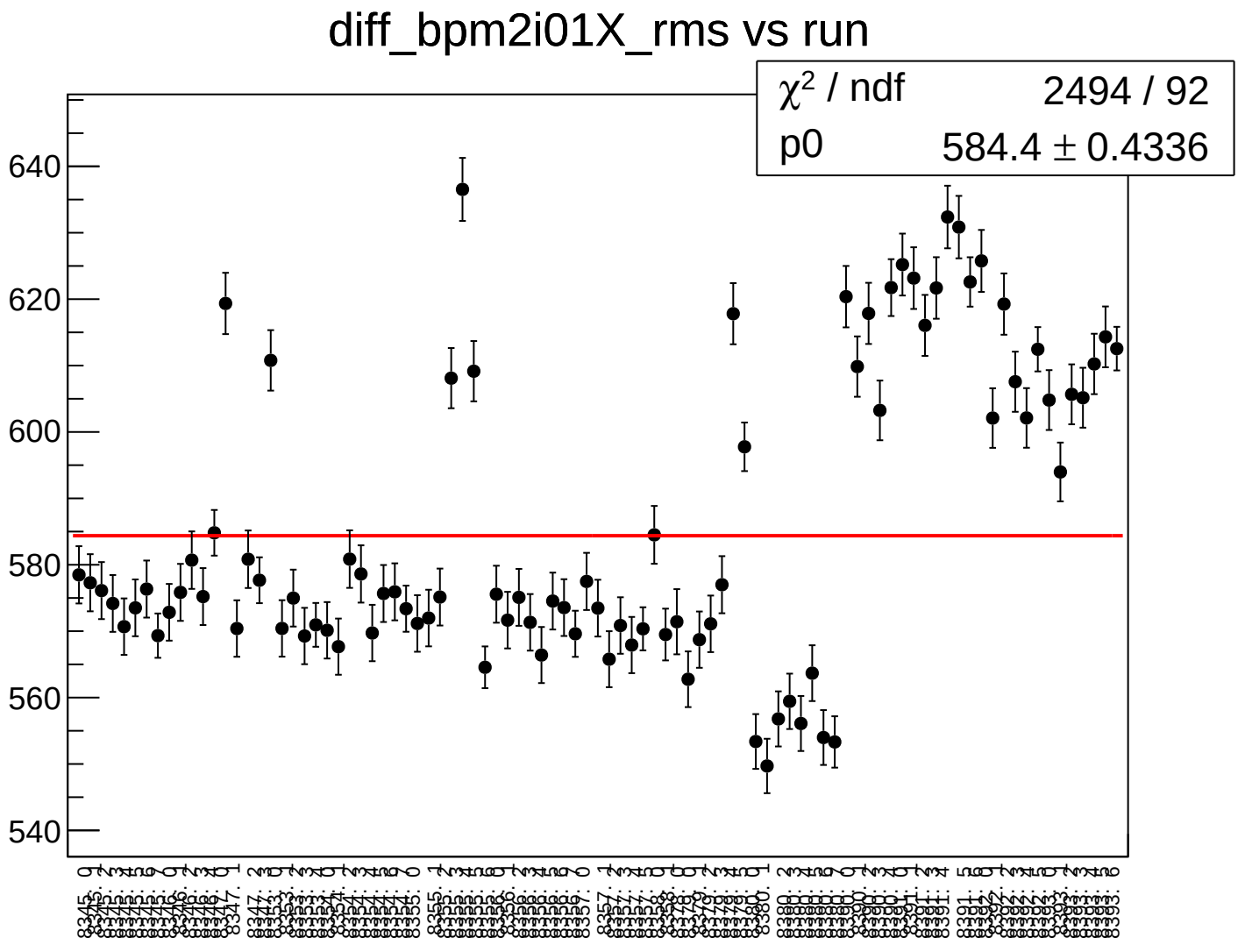

diff_bpm0r05Y_mean vs run
χ² / ndf 149.2 / 92
p0 27.07 ± 3.298
150
100
50
0
−50
−100
pull
Entries 93
Mean −739.5
Std Dev 0
3
2
1
0
−1
−2
−3

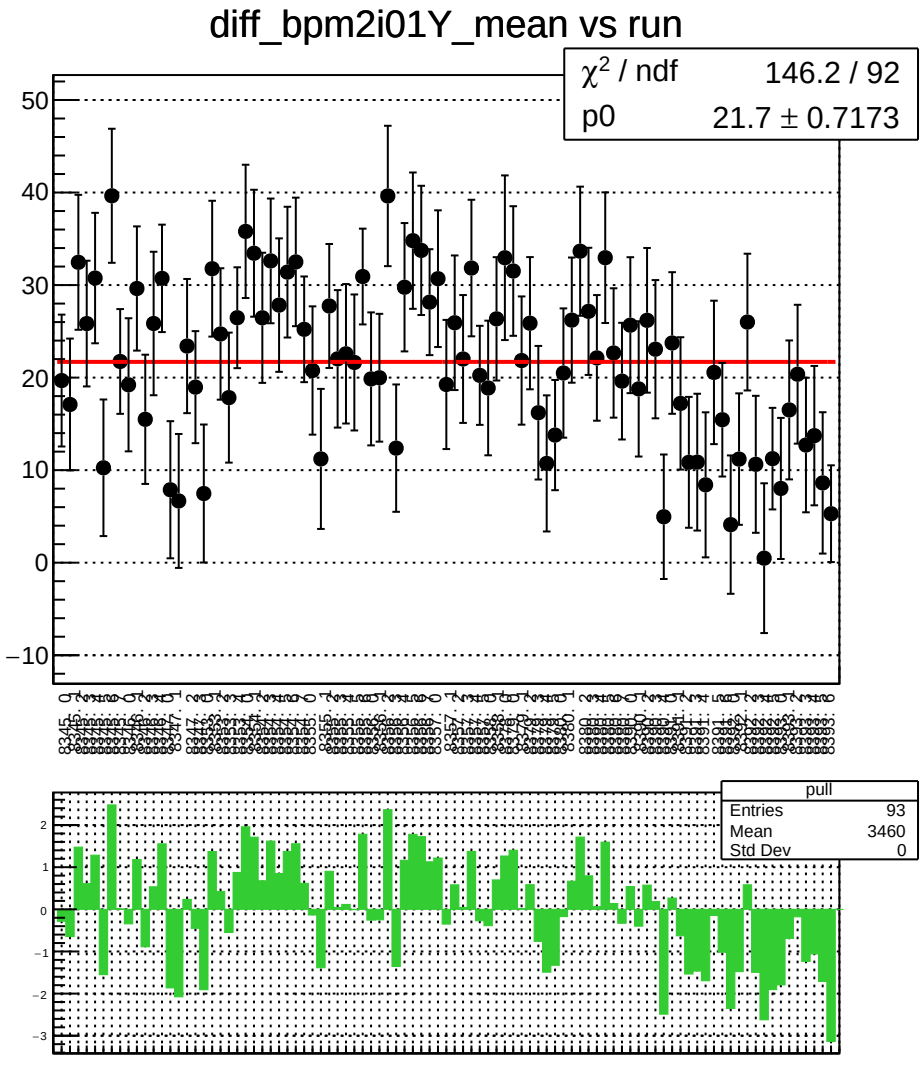

pull1D
Entries 93
Mean 0.01754
Std Dev 1.266
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

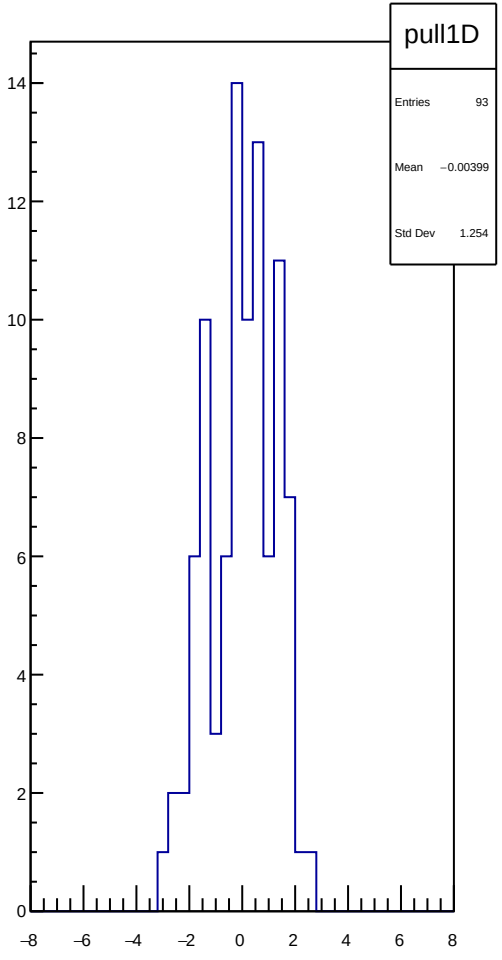

diff_bpm0r05Y_rms vs run
χ² / ndf 9978 / 92
p0 3137 ± 2.332
4200
4000
3800
3600
3400
3200
3000
2800
2600

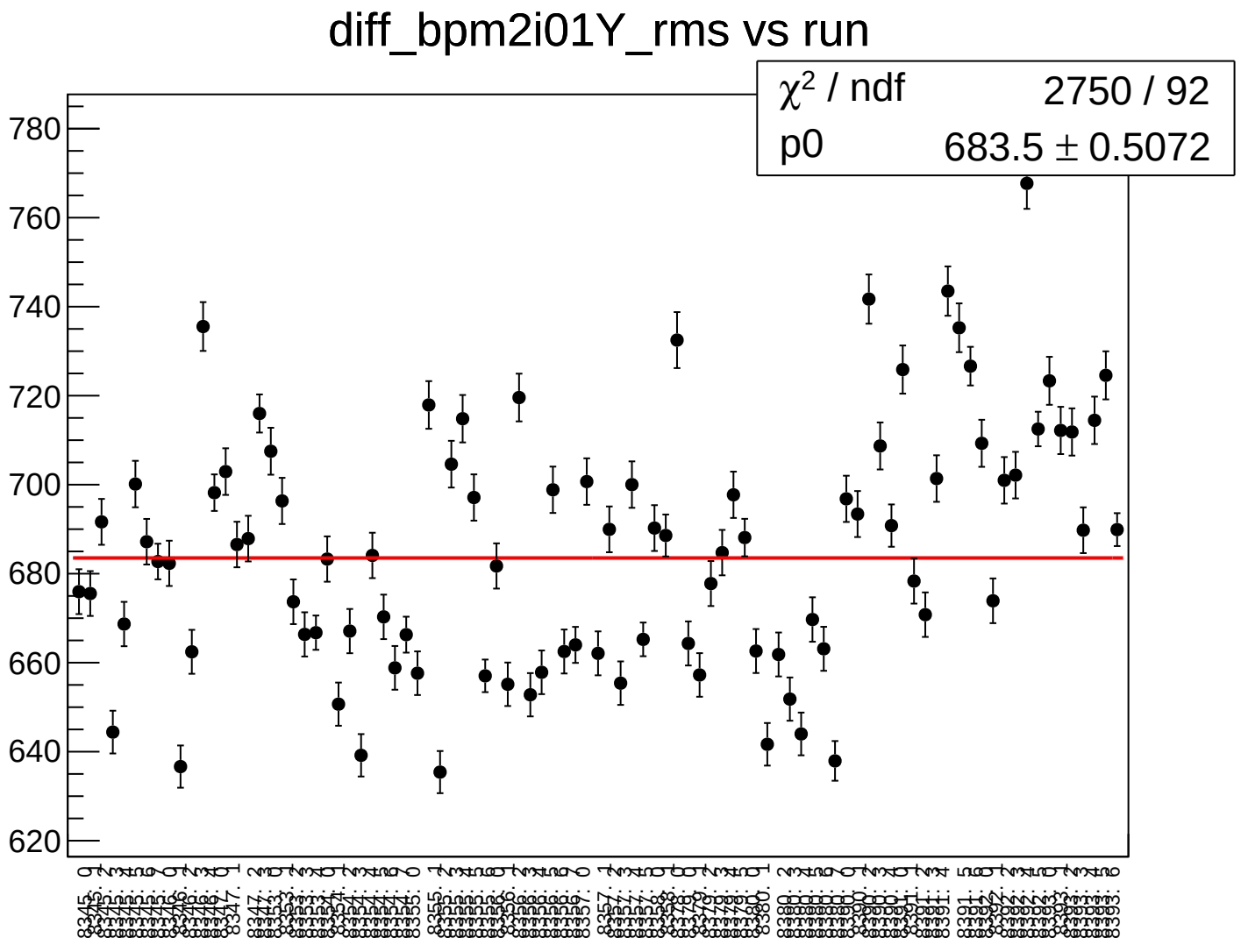

diff_bpm2i01X_mean vs run
χ² / ndf 165.7 / 92
p0 0.01568 ± 0.6132
pull
Entries 93
Mean 613.4
Std Dev 0

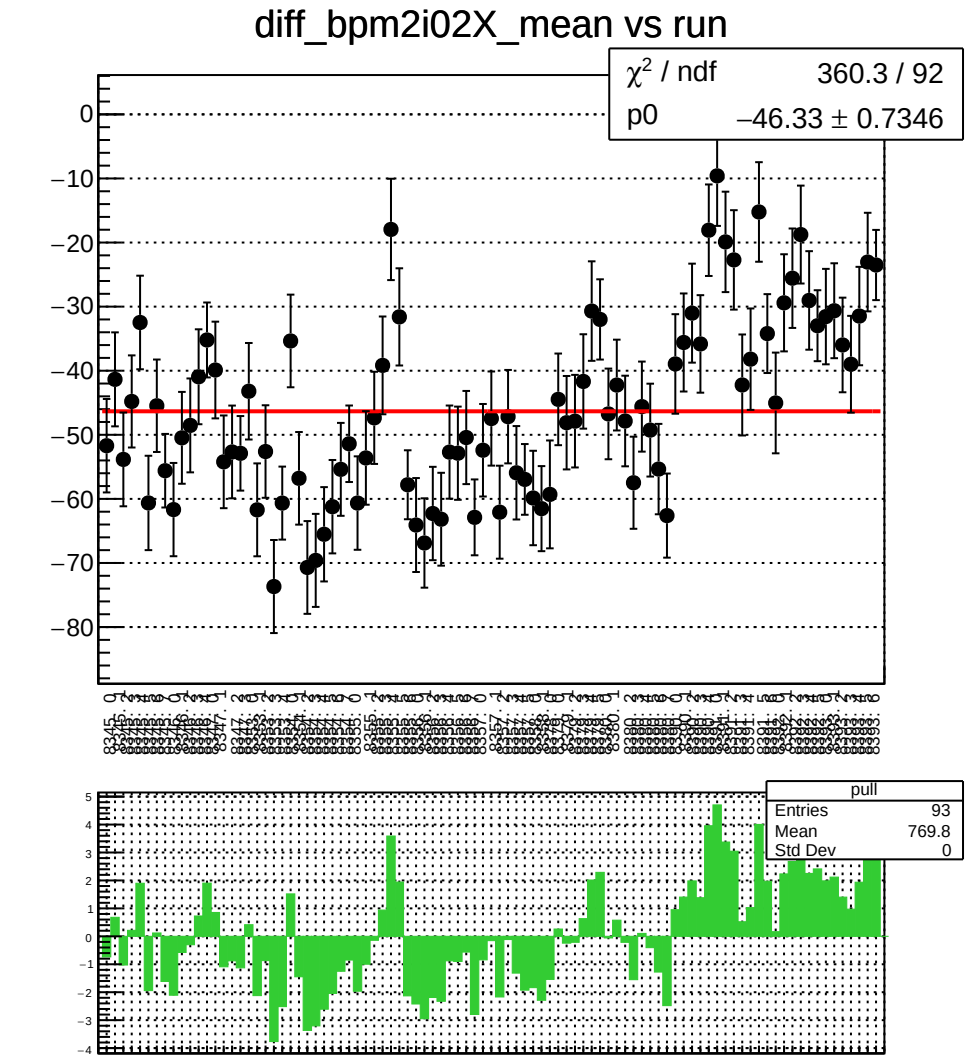

pull1D
Entries 93
Mean 0.02944
Std Dev 1.335

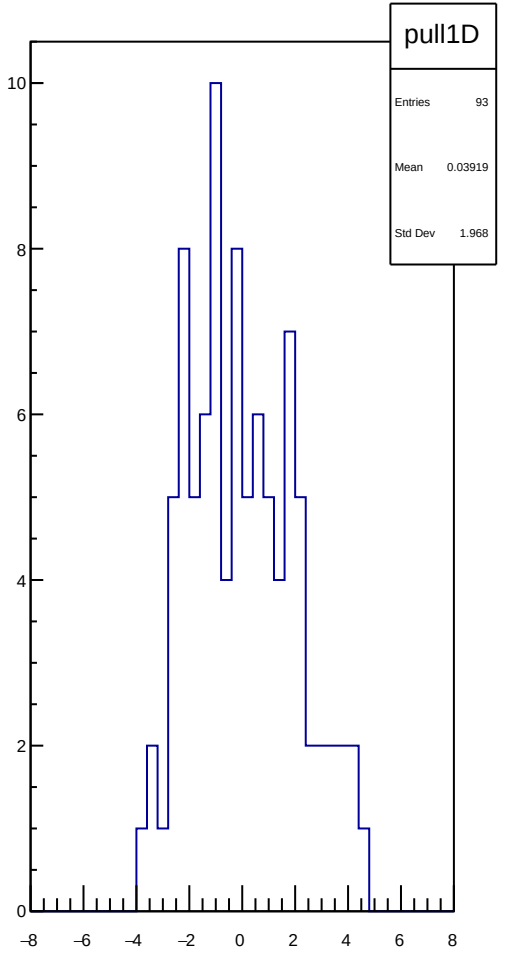

diff_bpm2i01X_rms vs run
χ² / ndf 2494 / 92
p0 584.4 ± 0.4336
640
620
600
580
560
540

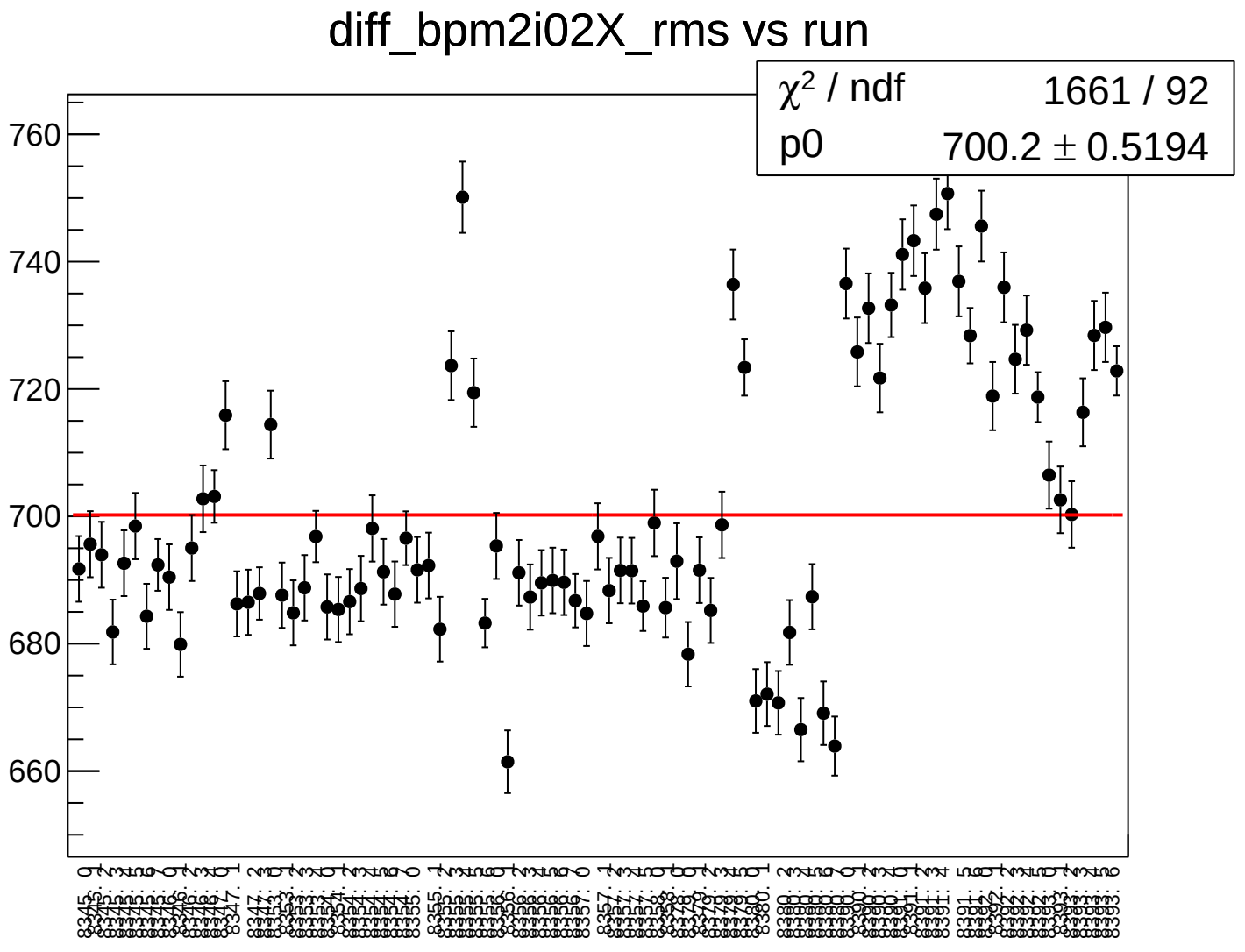

diff_bpm2i01Y_mean vs run
χ² / ndf 146.2 / 92
p0 21.7 ± 0.7173
pull
Entries 93
Mean 3460
Std Dev 0

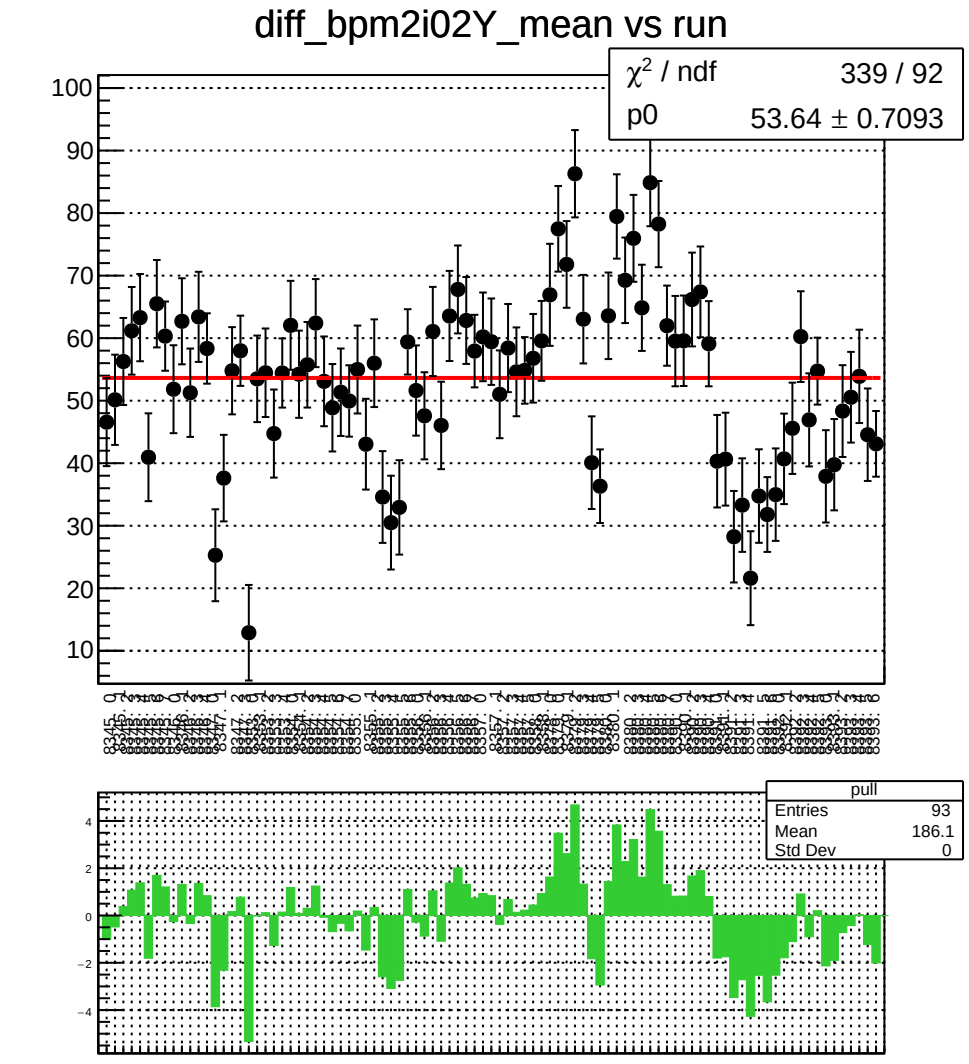

pull1D
Entries 93
Mean −0.00399
Std Dev 1.254

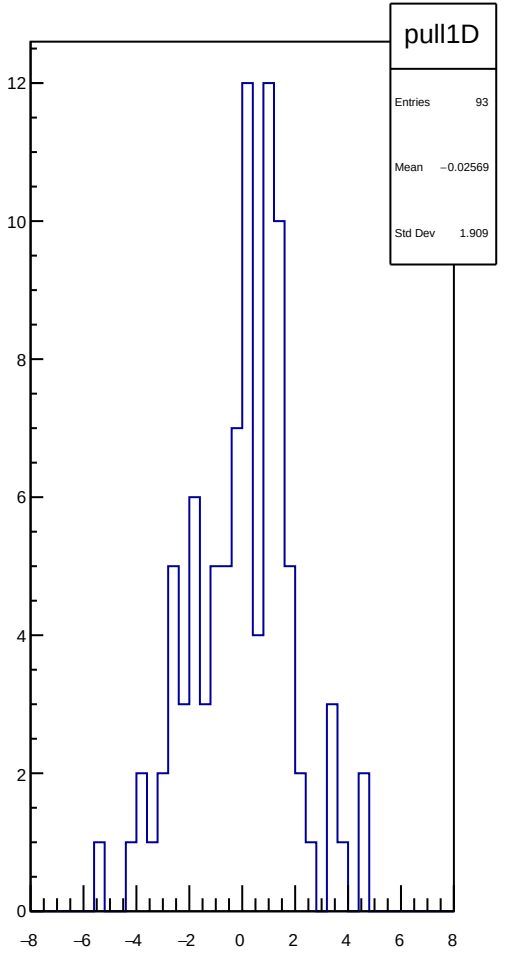

diff_bpm2i01Y_rms vs run
χ² / ndf 2750 / 92
p0 683.5 ± 0.5072
780
760
740
720
700
680
660
640
620

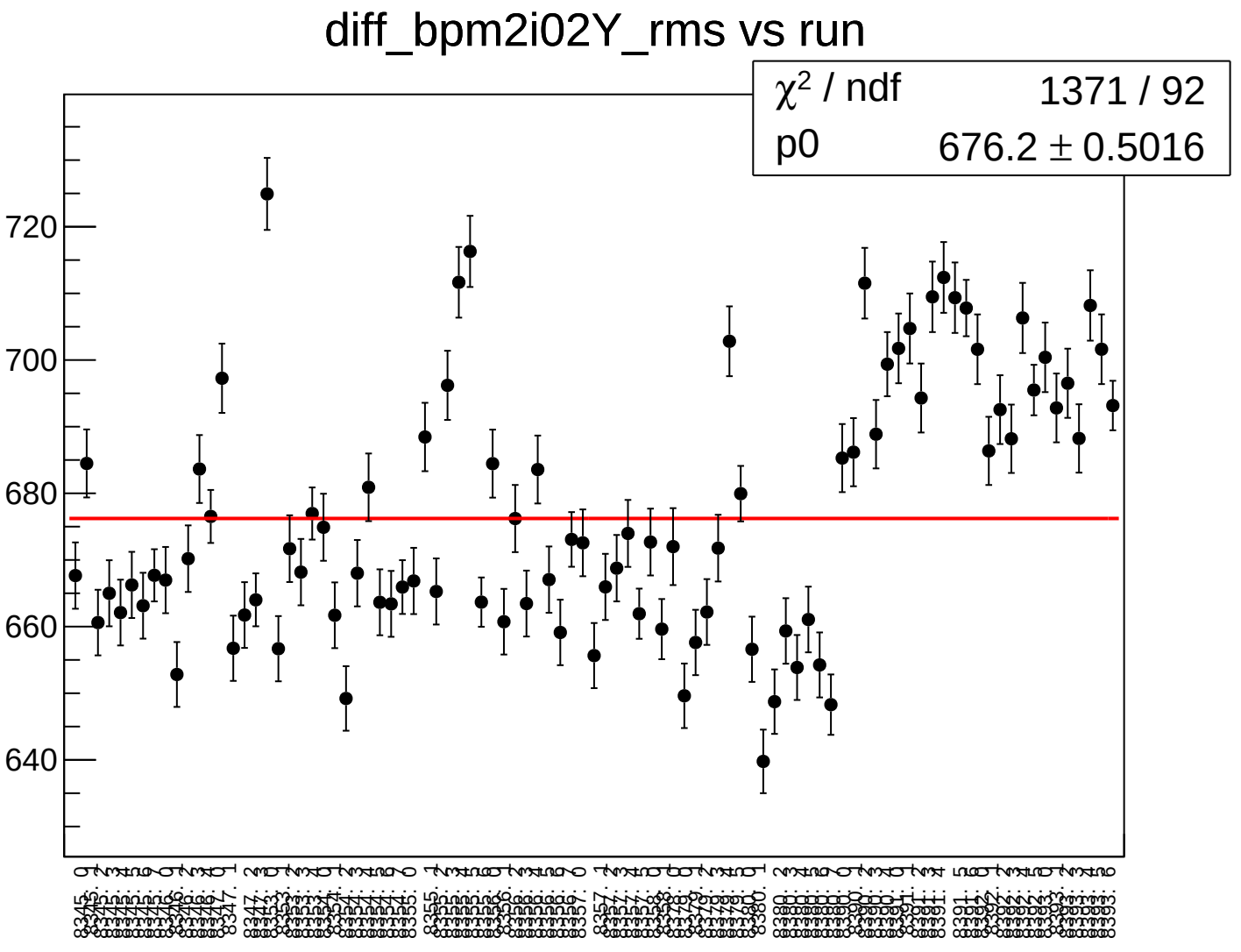

diff_bpm2i02X_mean vs run
χ² / ndf 360.3 / 92
p0 −46.33 ± 0.7346
pull
Entries 93
Mean 769.8
Std Dev 0

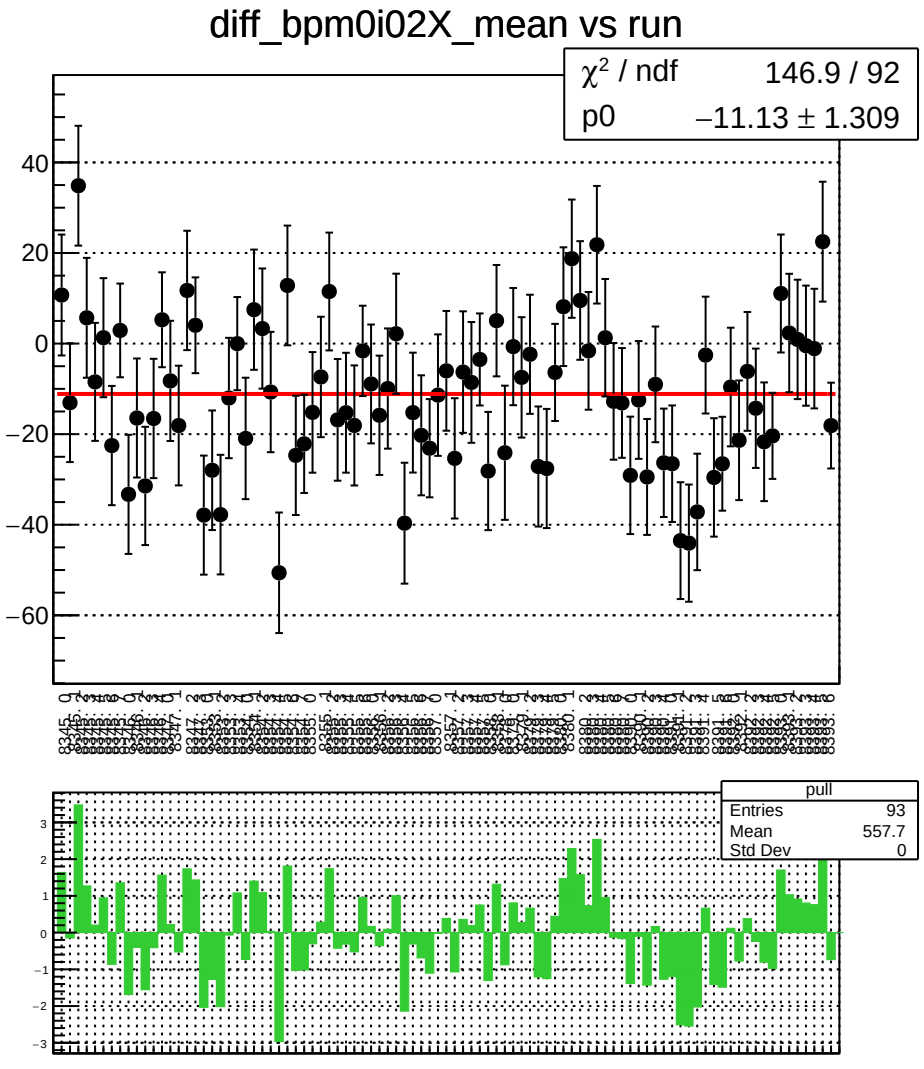

pull1D
Entries 93
Mean 0.03919
Std Dev 1.968

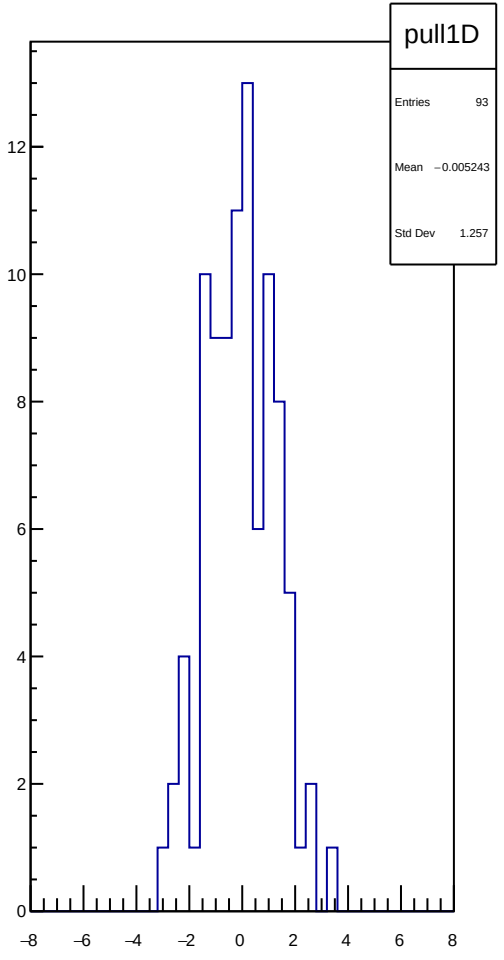

diff_bpm2i02X_rms vs run
χ² / ndf 1661 / 92
p0 700.2 ± 0.5194
760
740
720
700
680
660

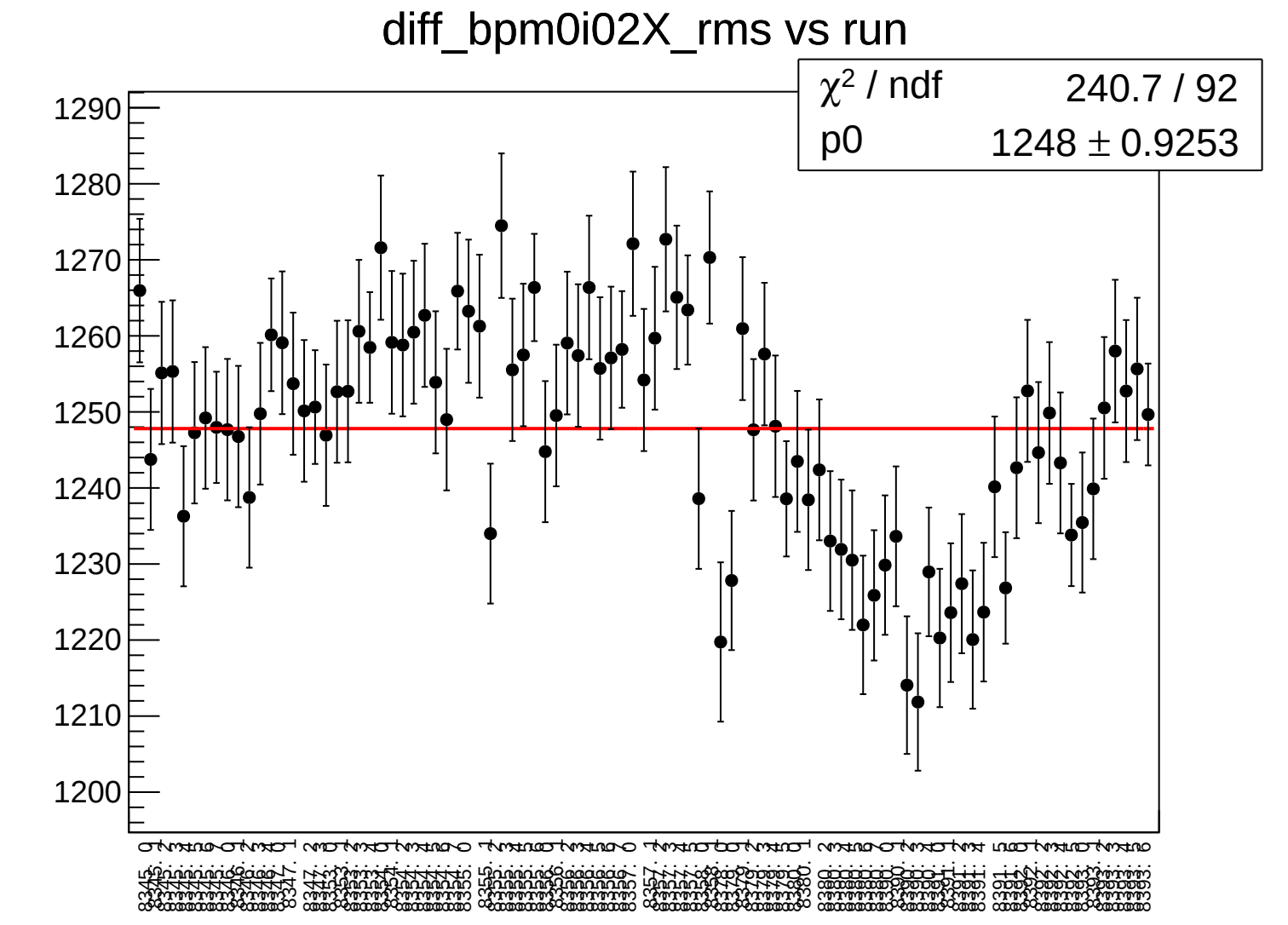

diff_bpm2i02Y_mean vs run
χ² / ndf 339 / 92
p0 53.64 ± 0.7093
pull
Entries 93
Mean 186.1
Std Dev 0

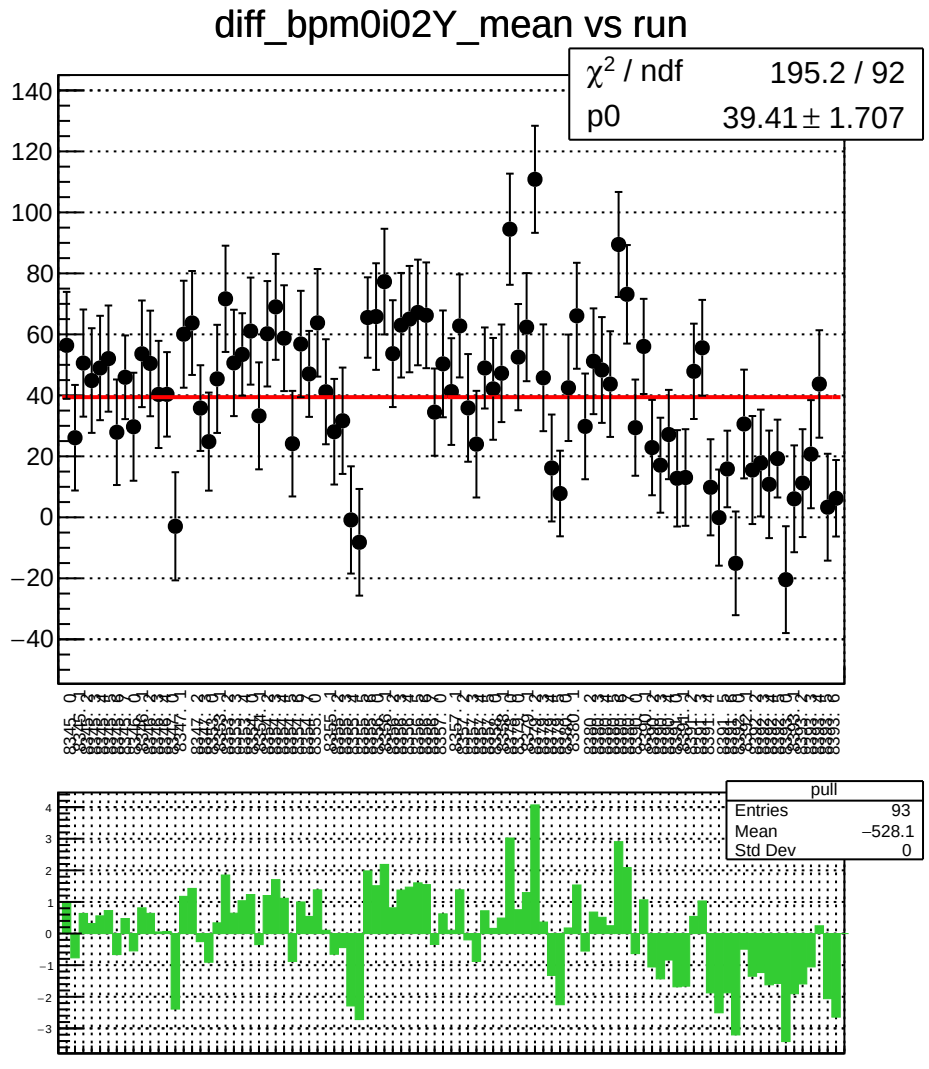

pull1D
Entries 93
Mean −0.02569
Std Dev 1.909

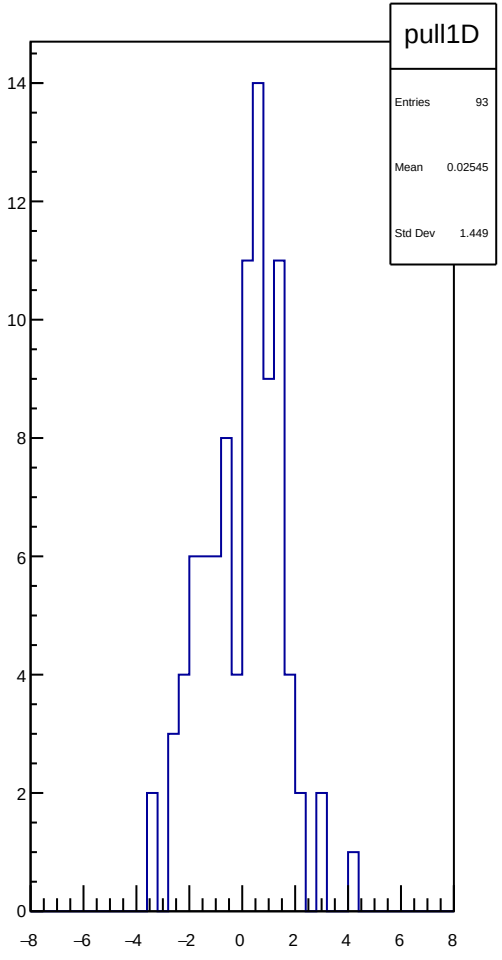

diff_bpm2i02Y_rms vs run
χ² / ndf 1371 / 92
p0 676.2 ± 0.5016
720
700
680
660
640

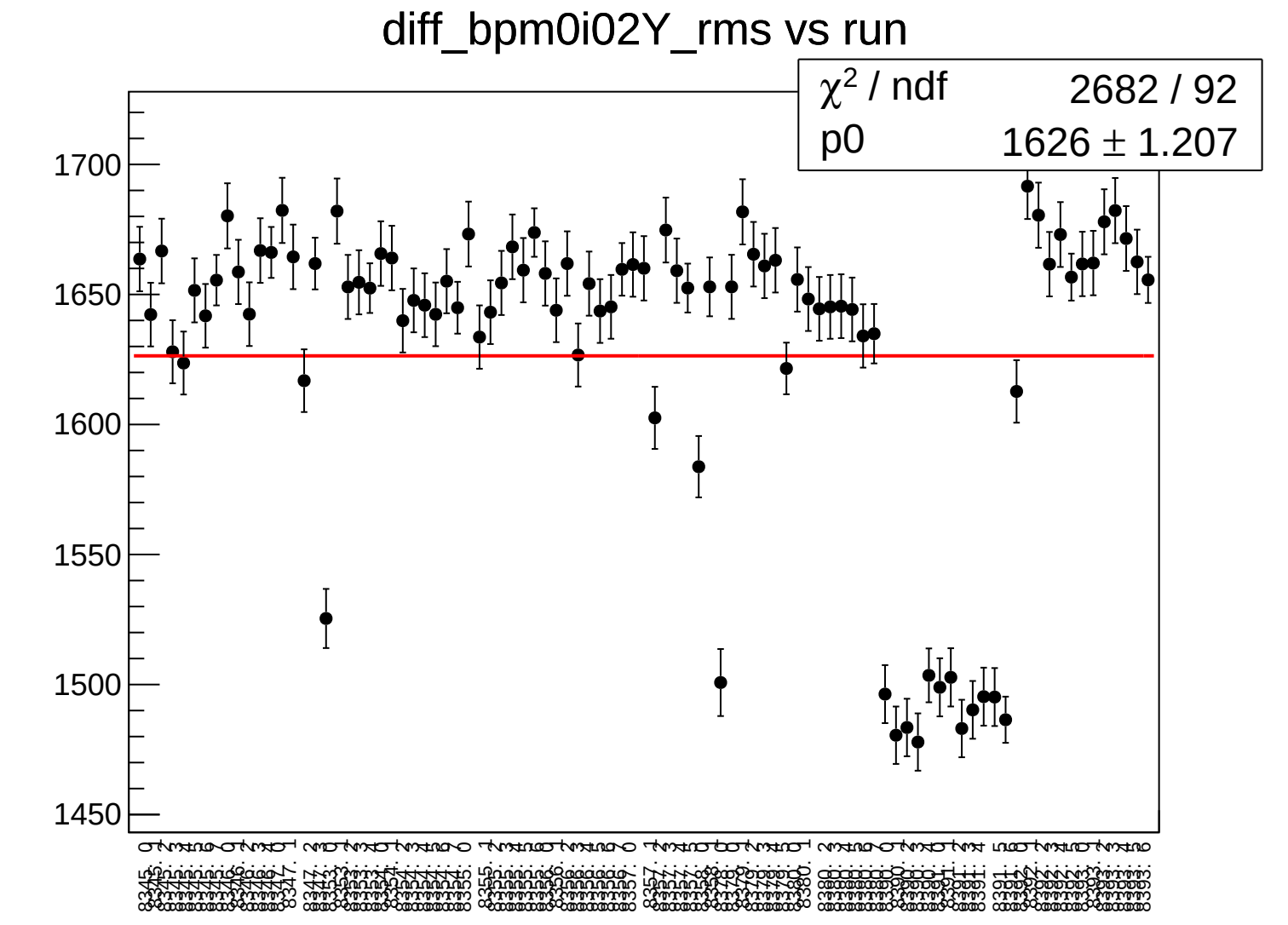

diff_bpm0i02X_mean vs run
χ² / ndf 146.9 / 92
p0 −11.13 ± 1.309
40
20
0
−20
−40
−60
pull
Entries 93
Mean 557.7
Std Dev 0
3
2
1
0
−1
−2
−3

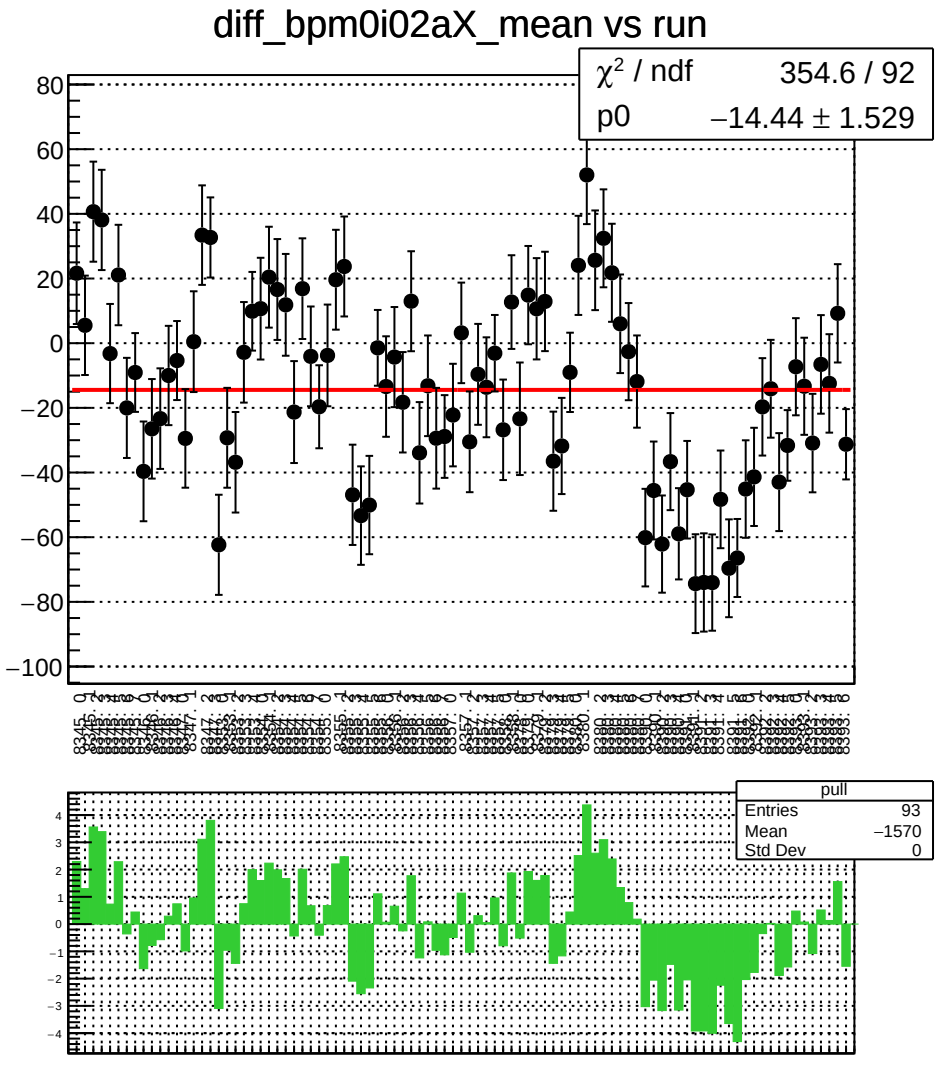

pull1D
Entries 93
Mean −0.005243
Std Dev 1.257
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

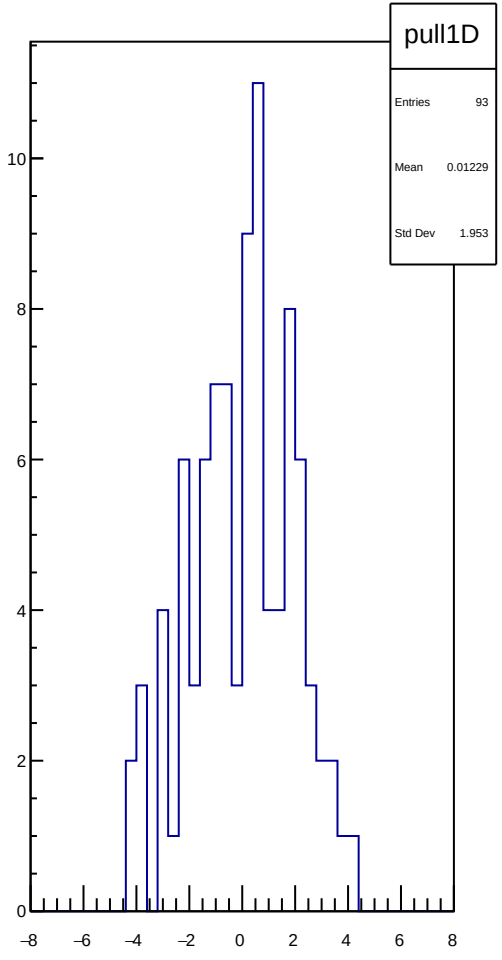

diff_bpm0i02X_rms vs run
χ² / ndf 240.7 / 92
p0 1248 ± 0.9253
1290
1280
1270
1260
1250
1240
1230
1220
1210
1200

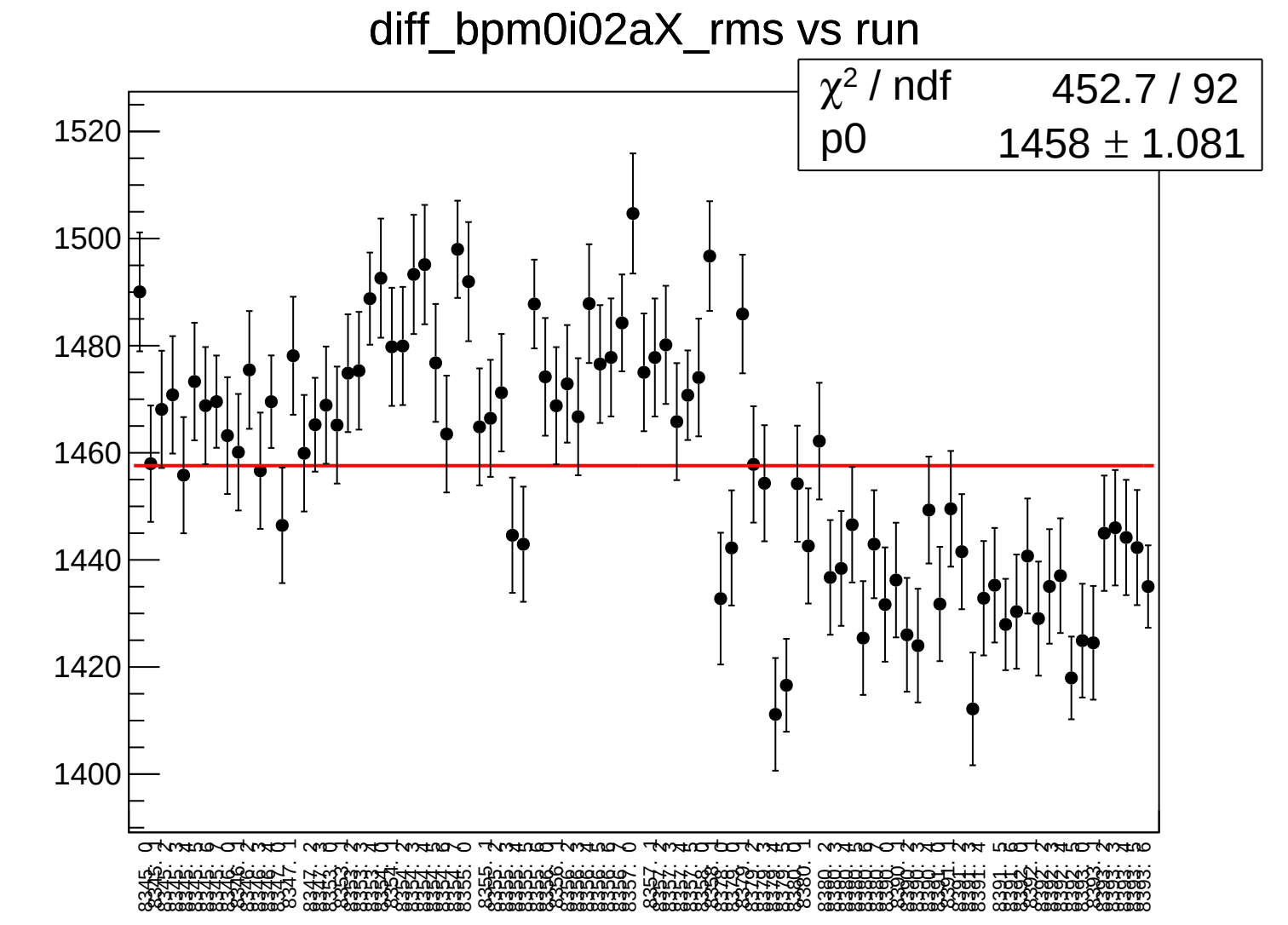

diff_bpm0i02Y_mean vs run
χ² / ndf 195.2 / 92
p0 39.41 ± 1.707
pull
Entries 93
Mean −528.1
Std Dev 0

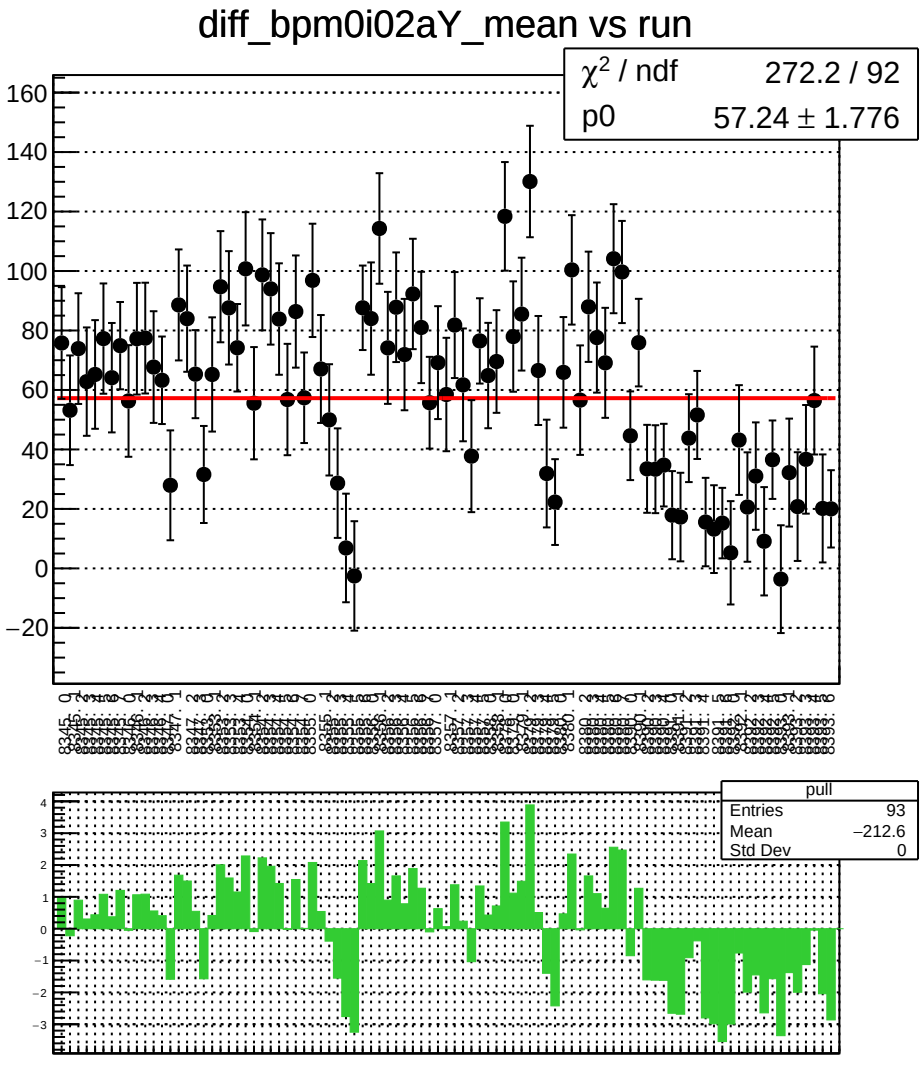

pull1D
Entries 93
Mean 0.02545
Std Dev 1.449

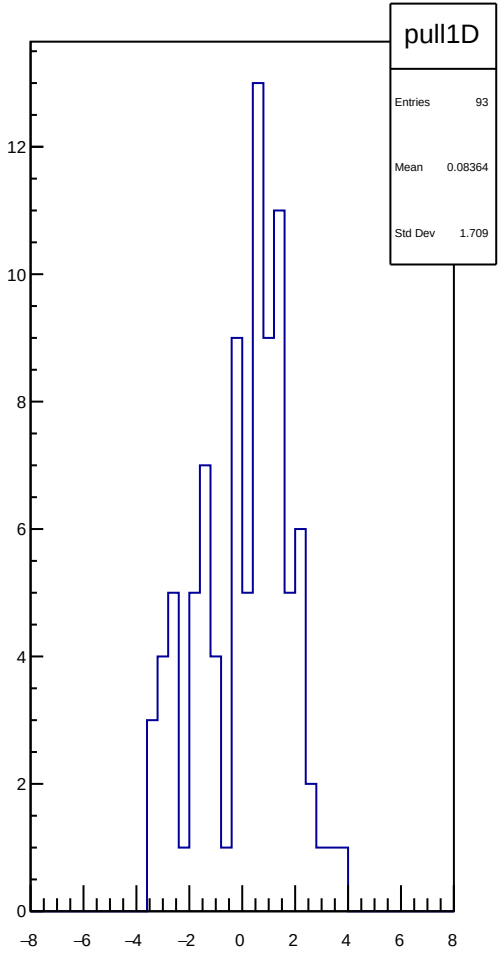

diff_bpm0i02Y_rms vs run
χ² / ndf 2682 / 92
p0 1626 ± 1.207
1700
1650
1600
1550
1500
1450

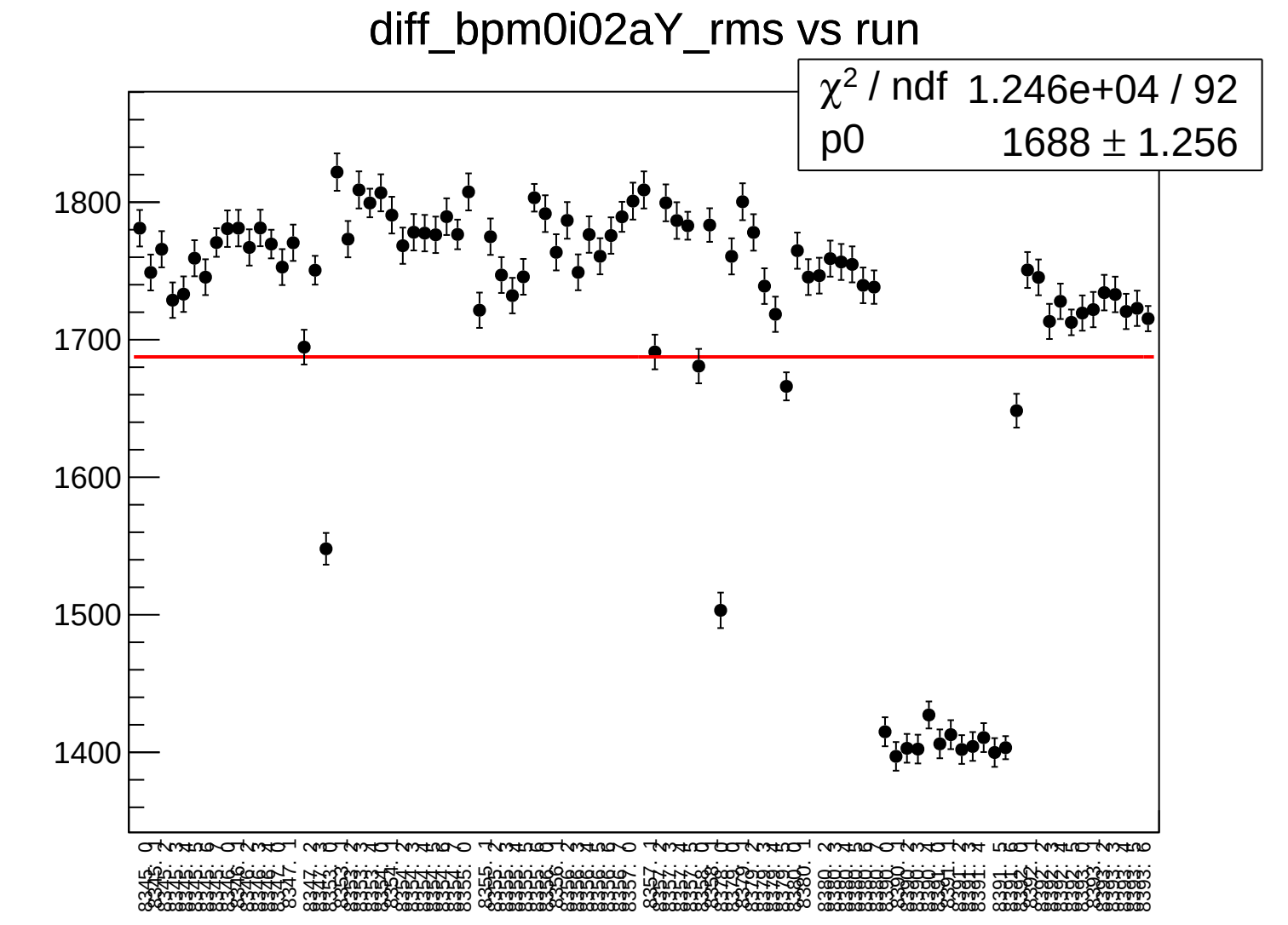

diff_bpm0i02aX_mean vs run
χ² / ndf 354.6 / 92
p0 −14.44 ± 1.529
pull
Entries 93
Mean −1570
Std Dev 0

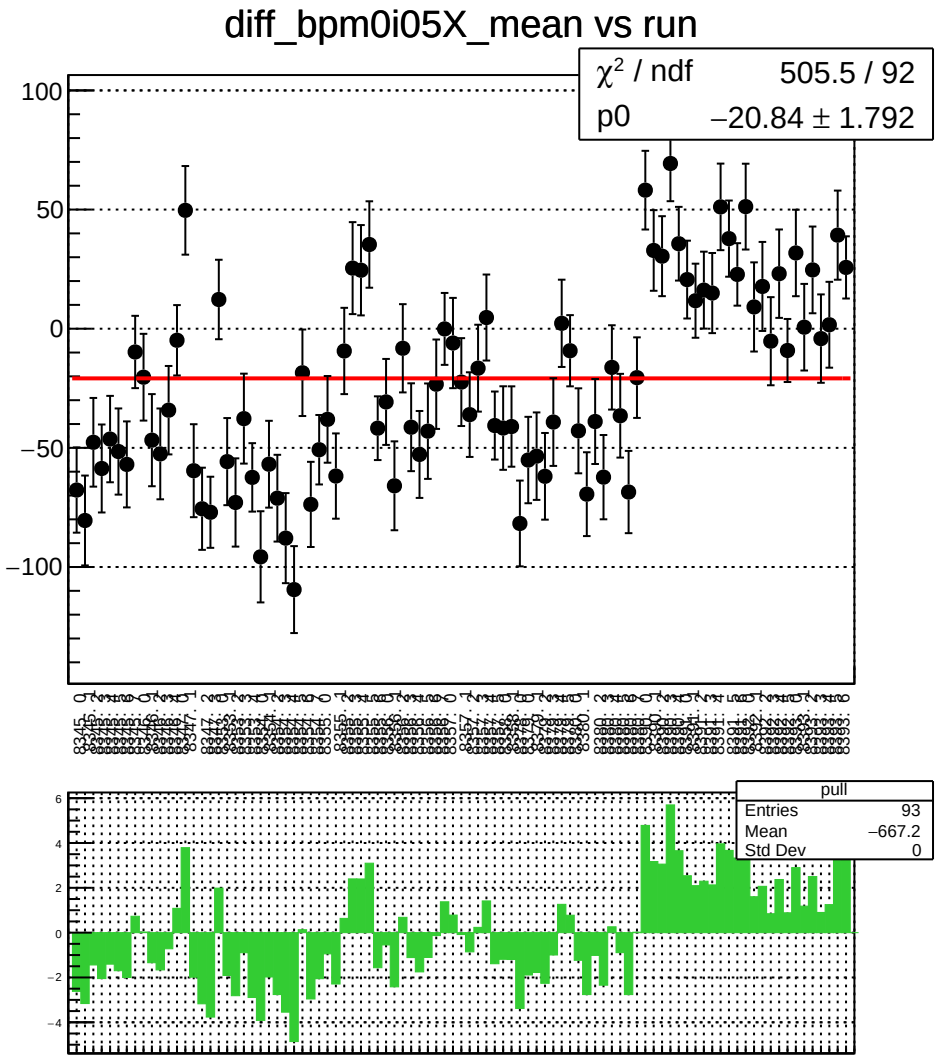

pull1D
Entries 93
Mean 0.01229
Std Dev 1.953

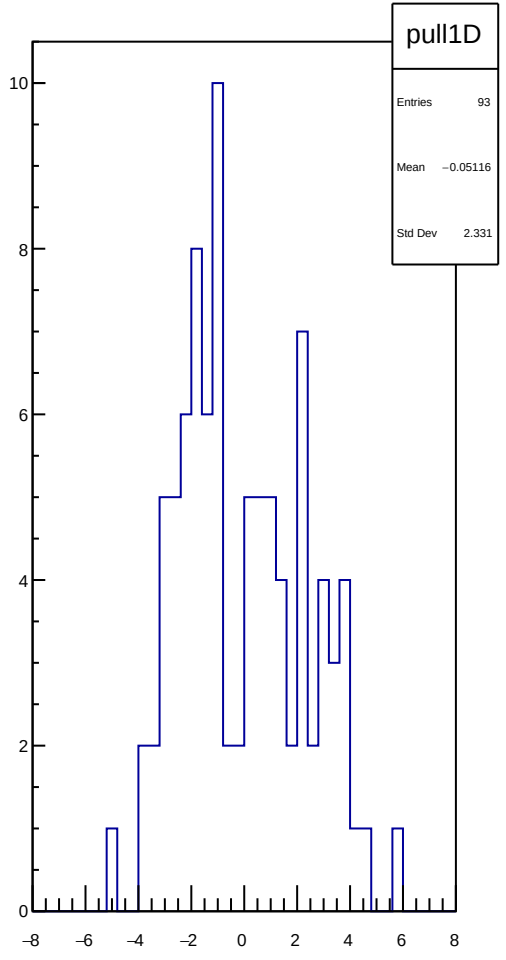

diff_bpm0i02aX_rms vs run
χ² / ndf 452.7 / 92
p0 1458 ± 1.081
1520
1500
1480
1460
1440
1420
1400

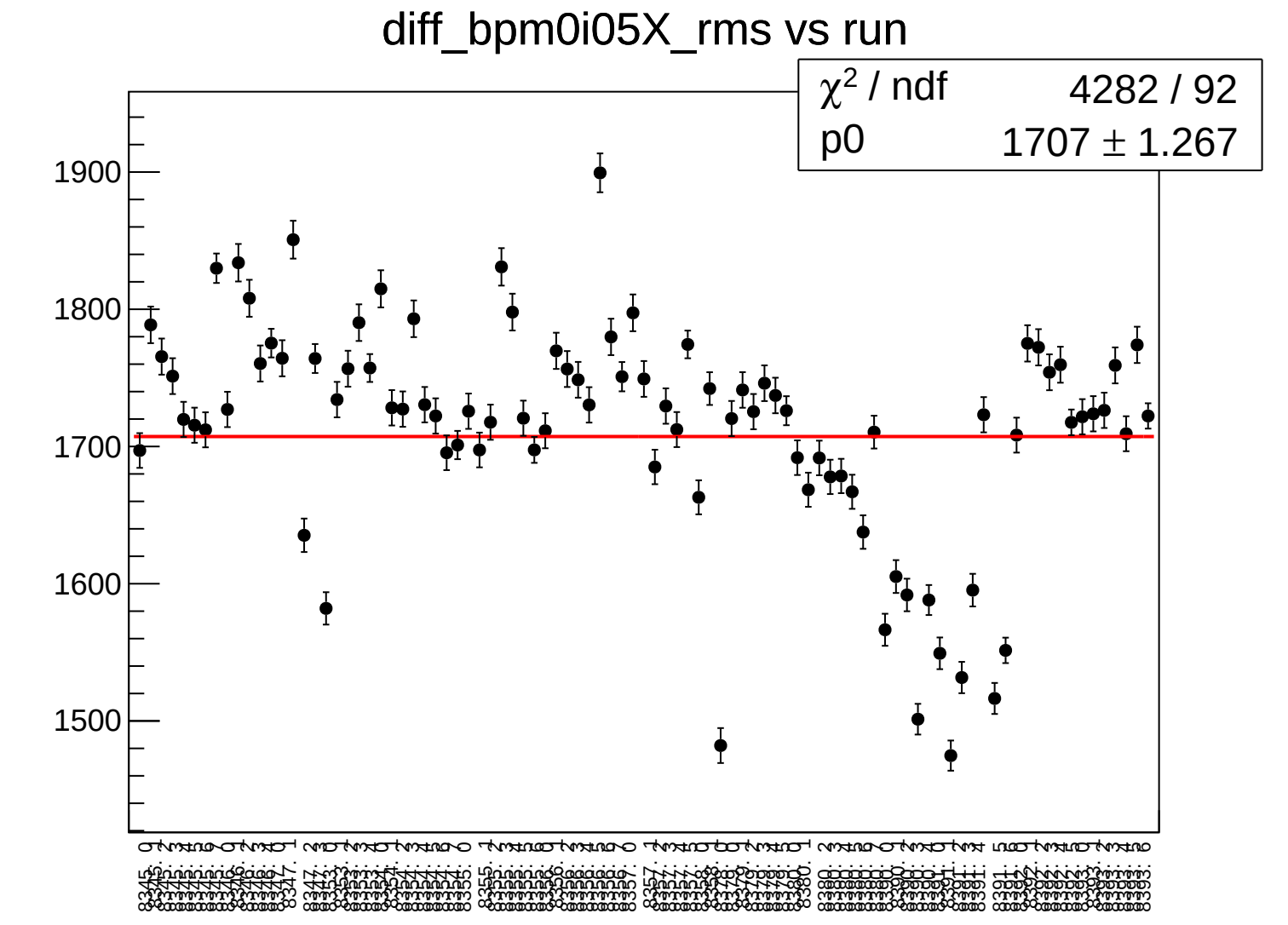

diff_bpm0i02aY_mean vs run
χ² / ndf 272.2 / 92
p0 57.24 ± 1.776
160
140
120
100
80
60
40
20
0
−20
pull
Entries 93
Mean −212.6
Std Dev 0
4
3
2
1
0
−1
−2
−3

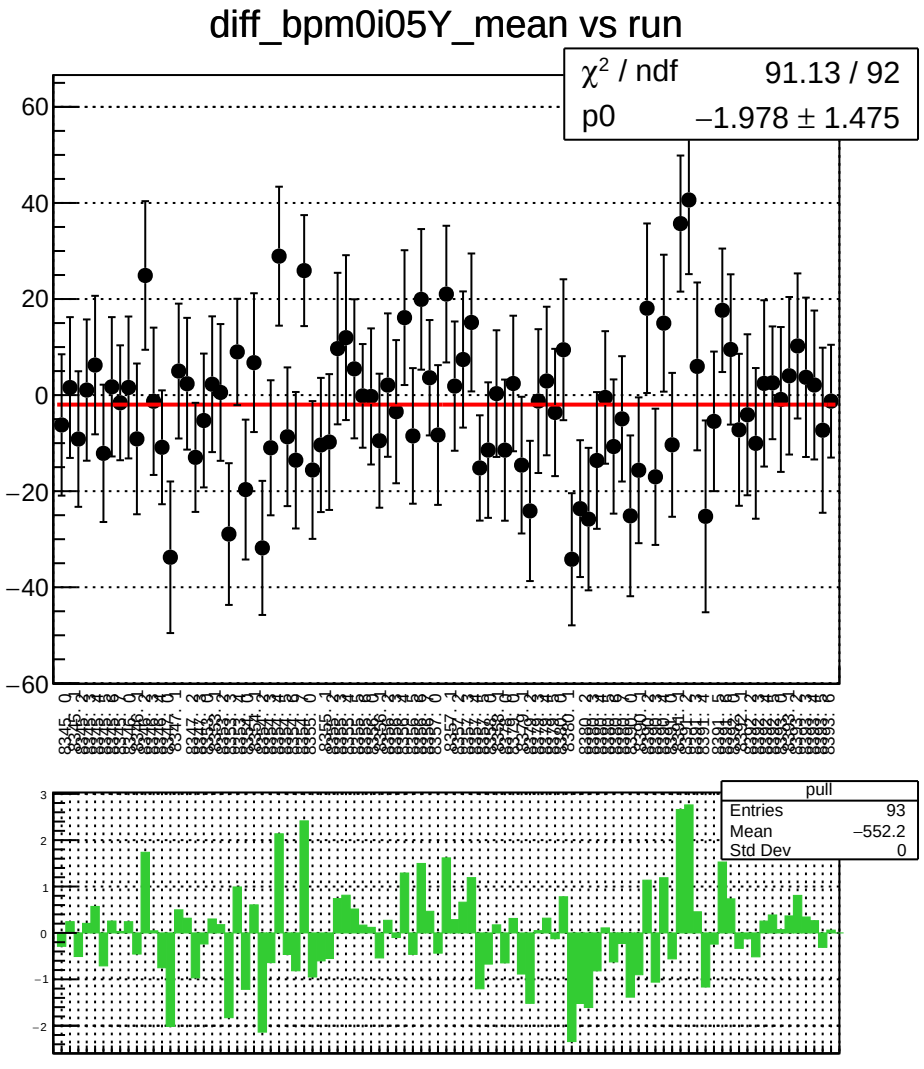

pull1D
Entries 93
Mean 0.08364
Std Dev 1.709
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

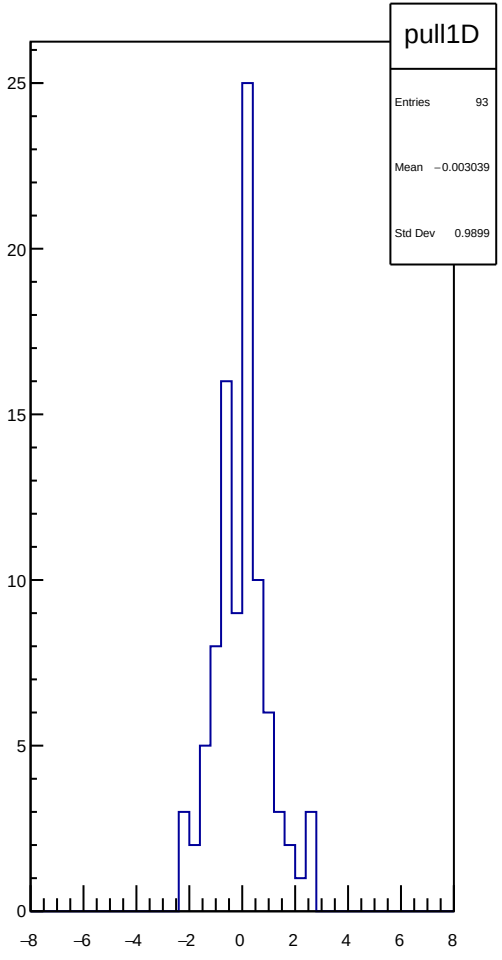

diff_bpm0i02aY_rms vs run
χ² / ndf 1.246e+04 / 92
p0 1688 ± 1.256
1800
1700
1600
1500
1400

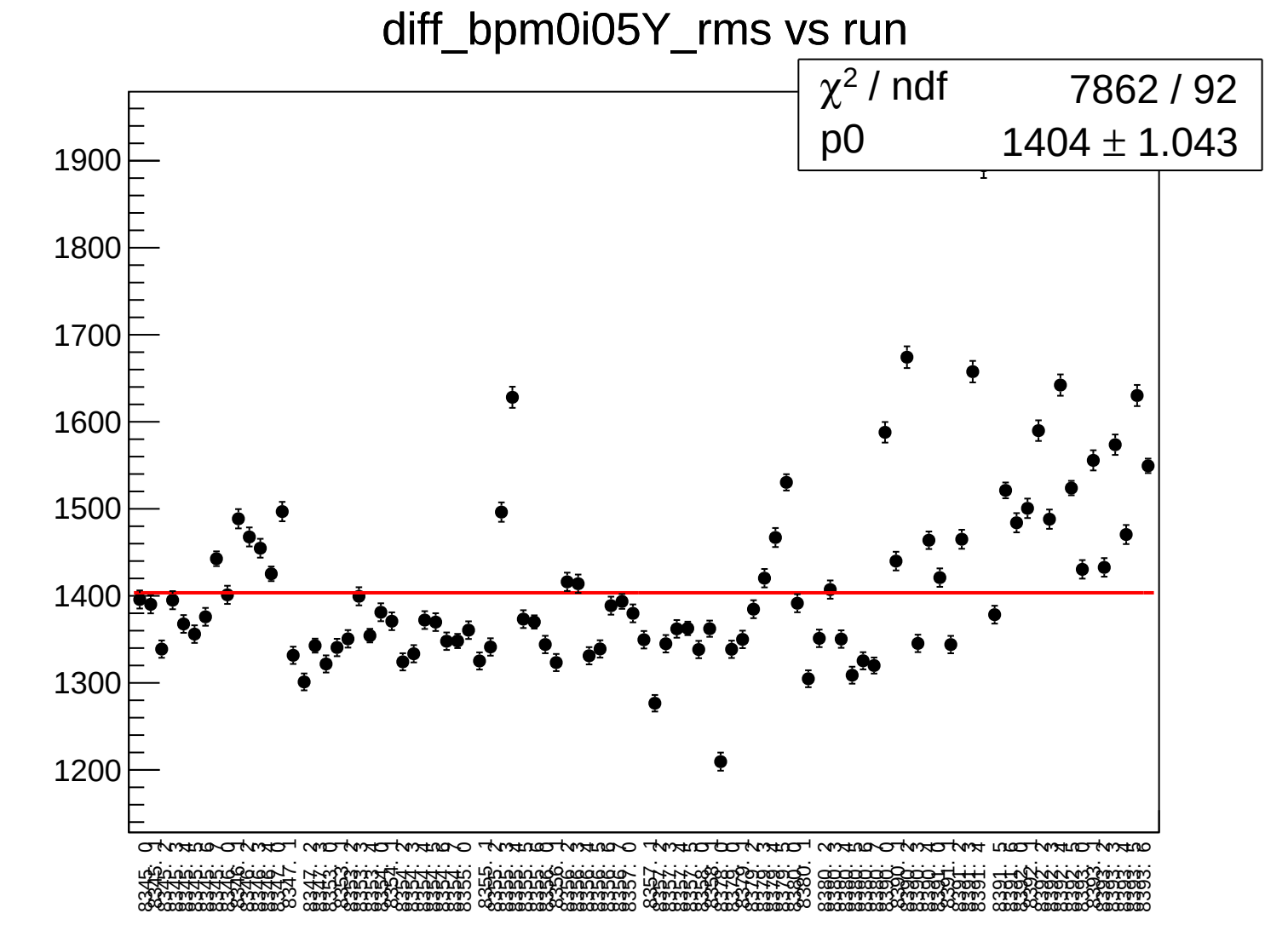

diff_bpm0i05X_mean vs run
χ² / ndf 505.5 / 92
p0 −20.84 ± 1.792
100
50
0
−50
−100
pull
Entries 93
Mean −667.2
Std Dev 0
6
4
2
0
−2
−4

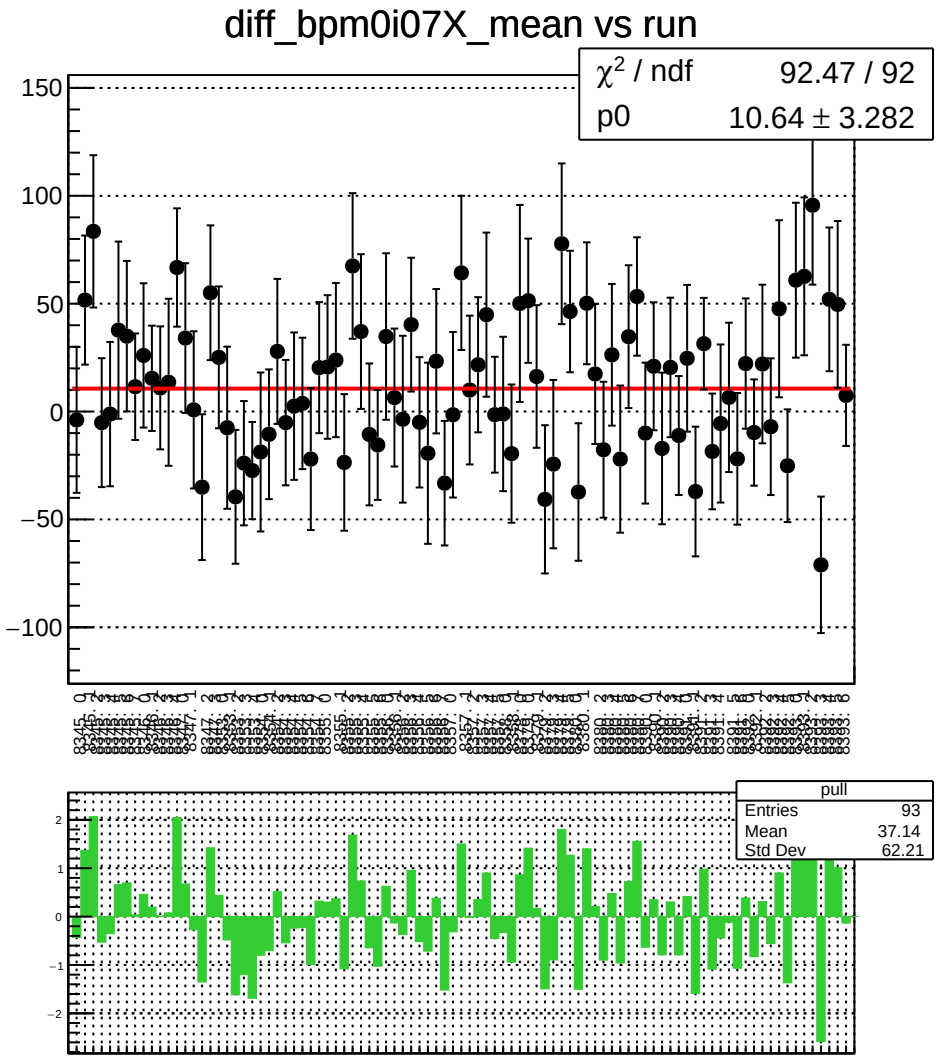

pull1D
Entries 93
Mean −0.05116
Std Dev 2.331
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

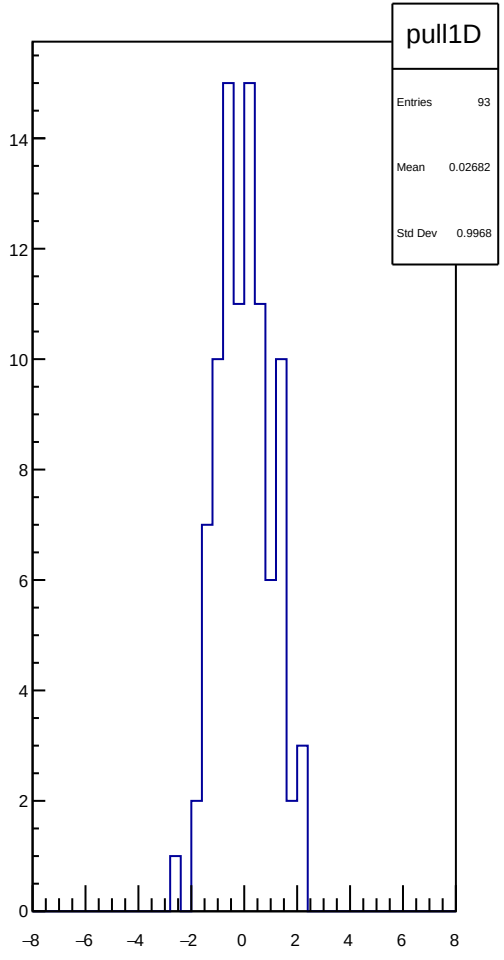

diff_bpm0i05X_rms vs run
χ² / ndf 4282 / 92
p0 1707 ± 1.267
1900
1800
1700
1600
1500

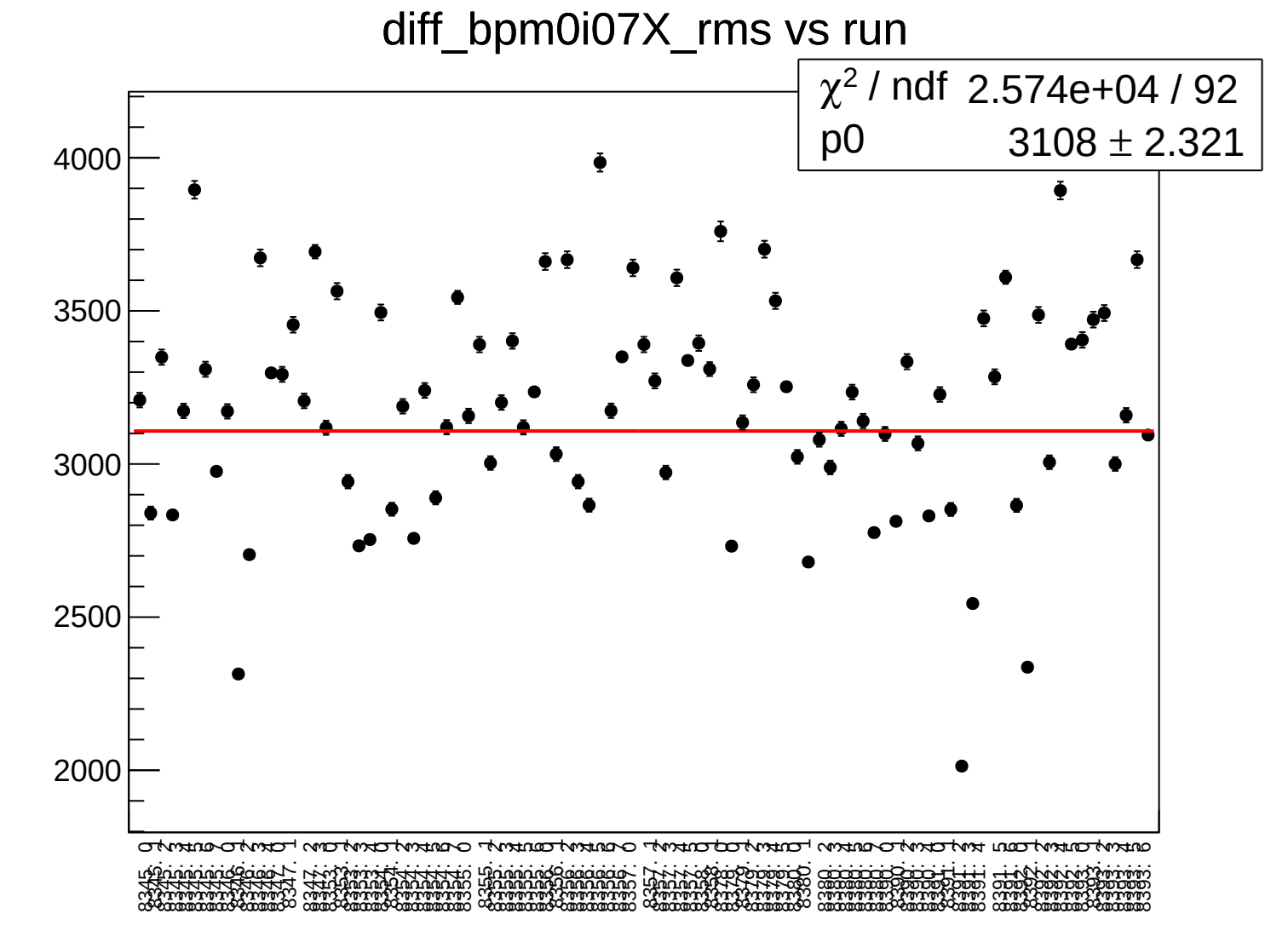

diff_bpm0i05Y_mean vs run
χ² / ndf 91.13 / 92
p0 −1.978 ± 1.475
pull
Entries 93
Mean −552.2
Std Dev 0

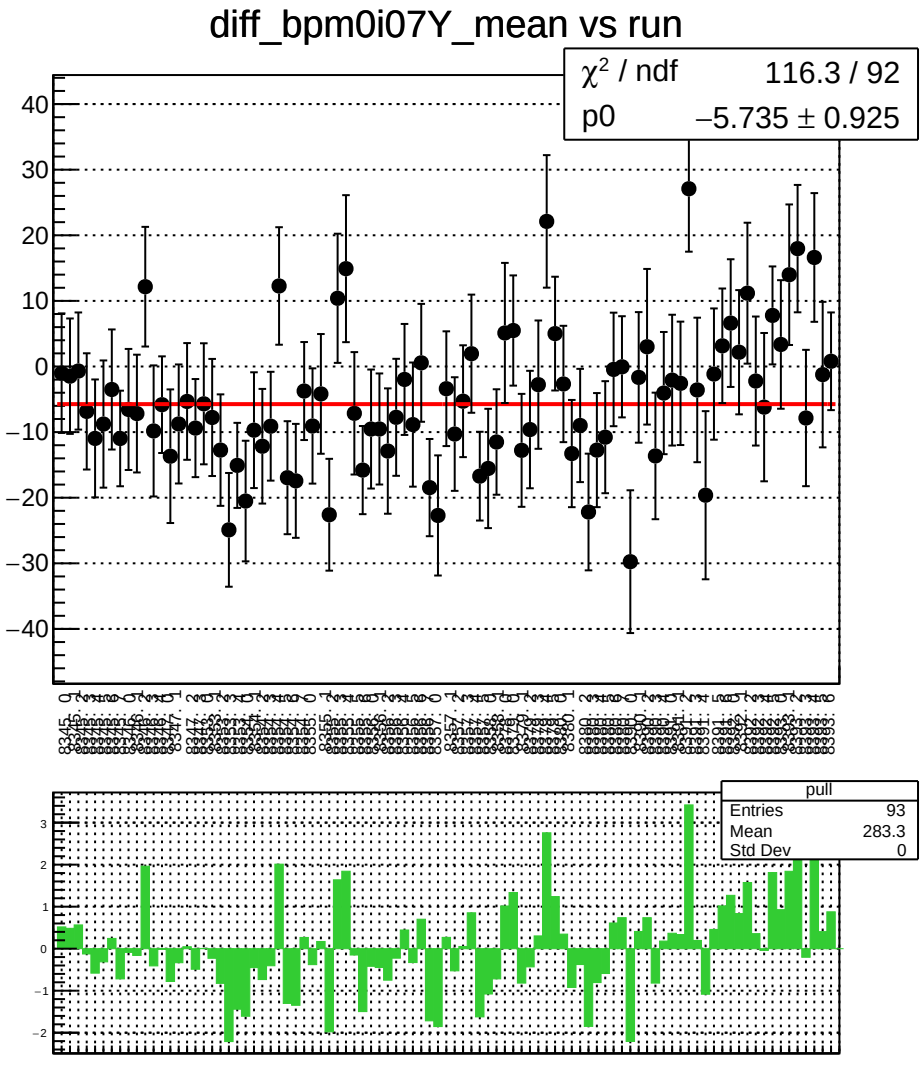

pull1D
Entries 93
Mean −0.003039
Std Dev 0.9899

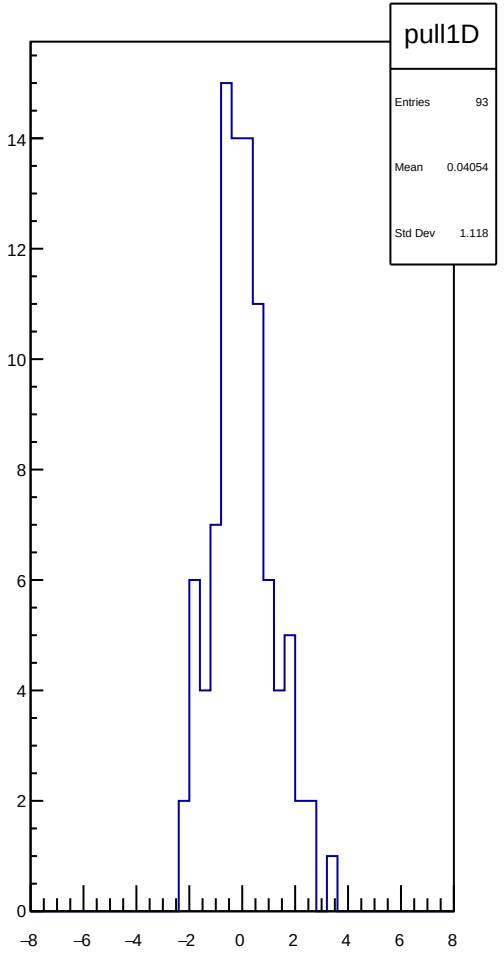

diff_bpm0i05Y_rms vs run
χ² / ndf 7862 / 92
p0 1404 ± 1.043
1900
1800
1700
1600
1500
1400
1300
1200

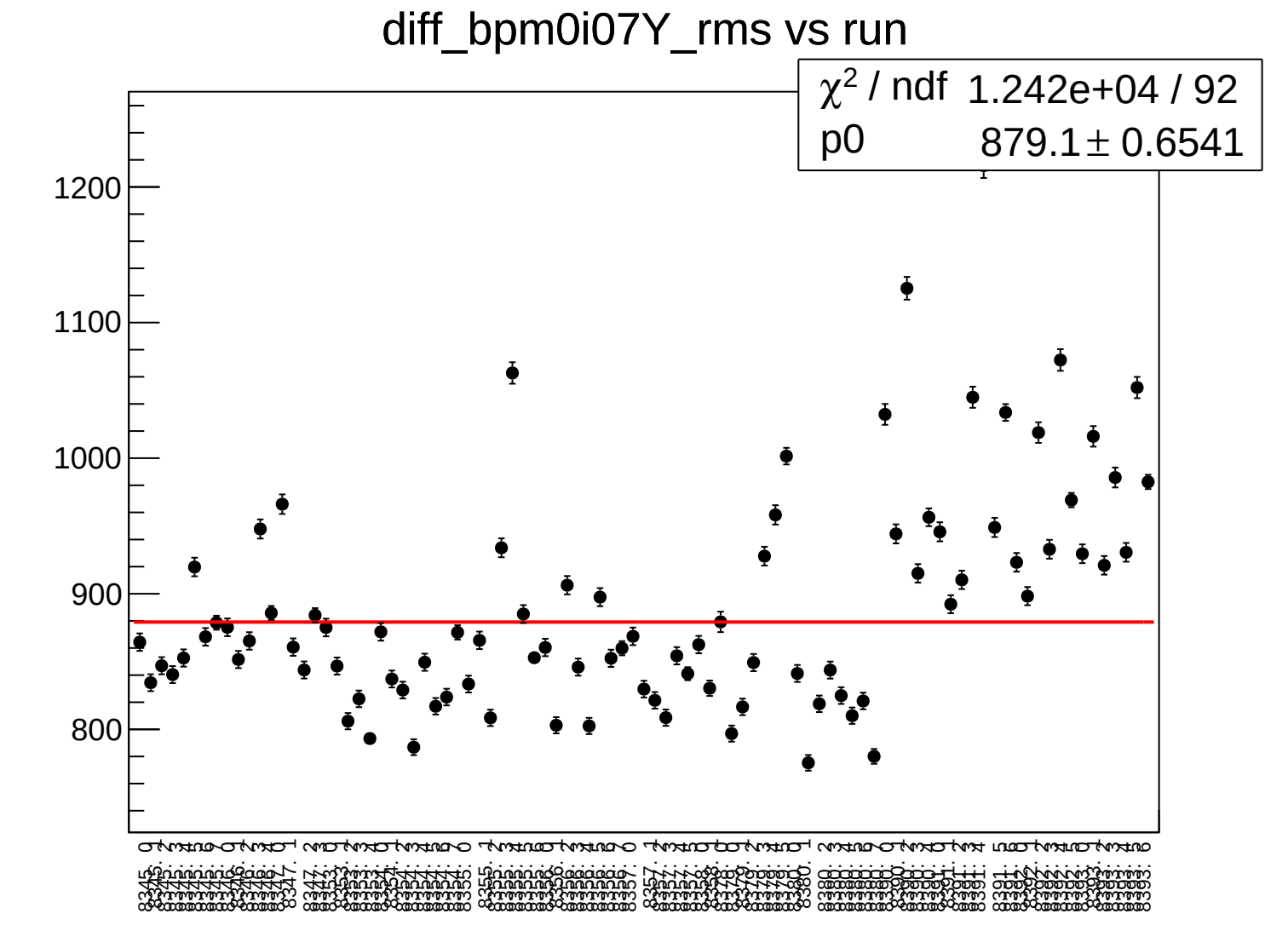

diff_bpm0i07X_mean vs run
χ² / ndf 92.47 / 92
p0 10.64 ± 3.282
150
100
50
0
−50
−100
pull
Entries 93
Mean 37.14
Std Dev 62.21
2
1
0
−1
−2

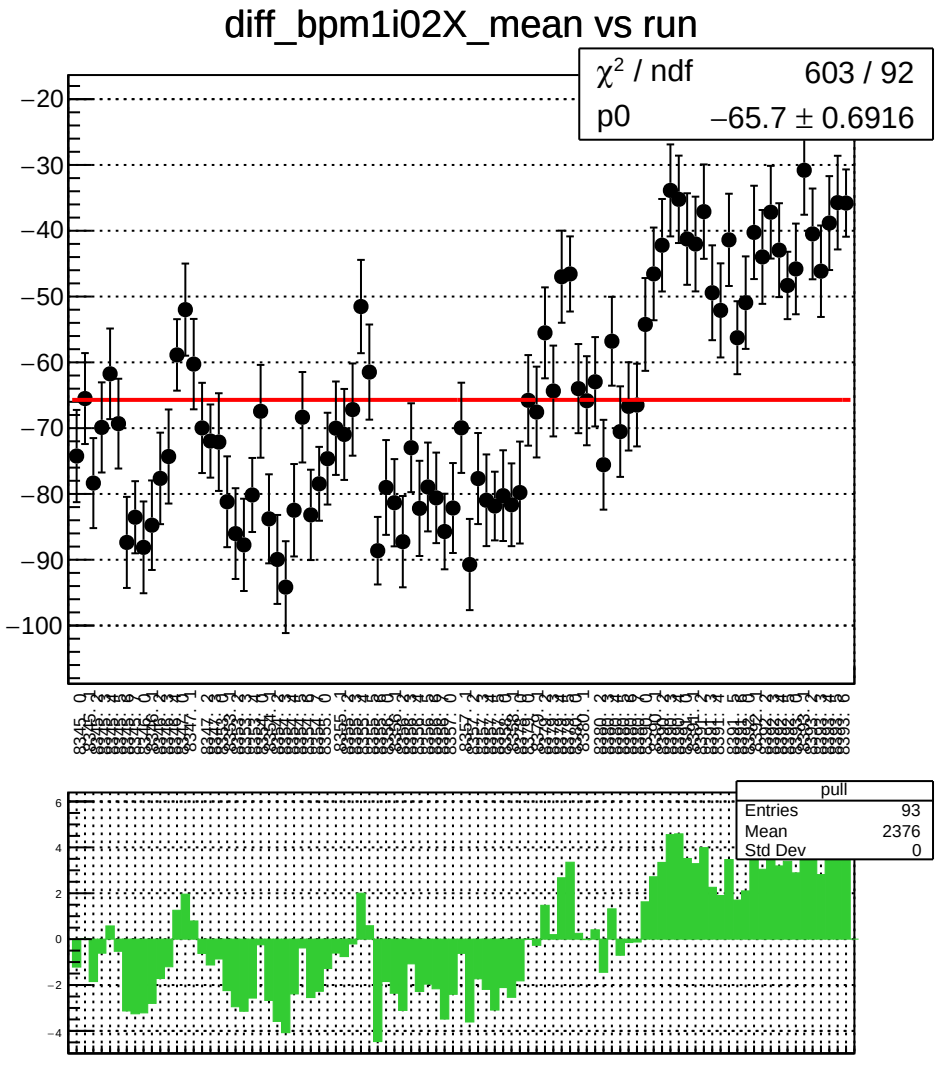

pull1D
Entries 93
Mean 0.02682
Std Dev 0.9968
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

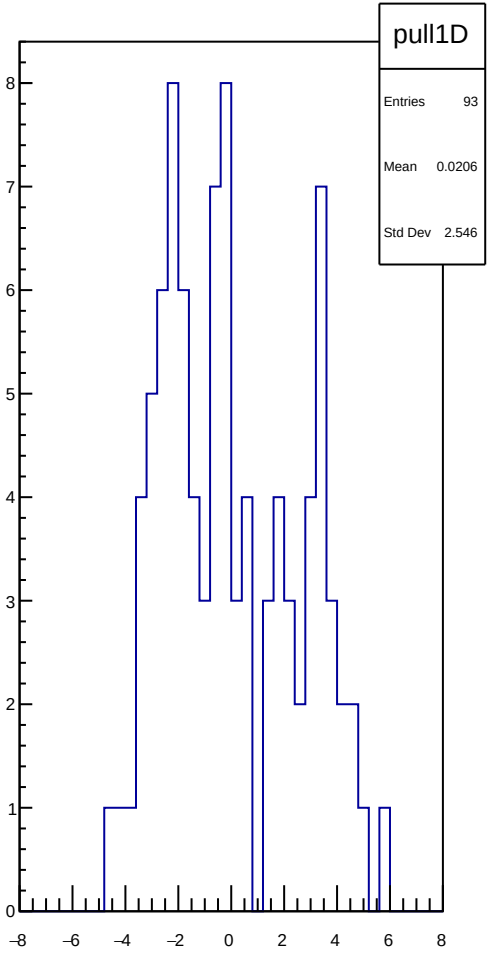

diff_bpm0i07X_rms vs run
χ² / ndf 2.574e+04 / 92
p0 3108 ± 2.321
4000
3500
3000
2500
2000

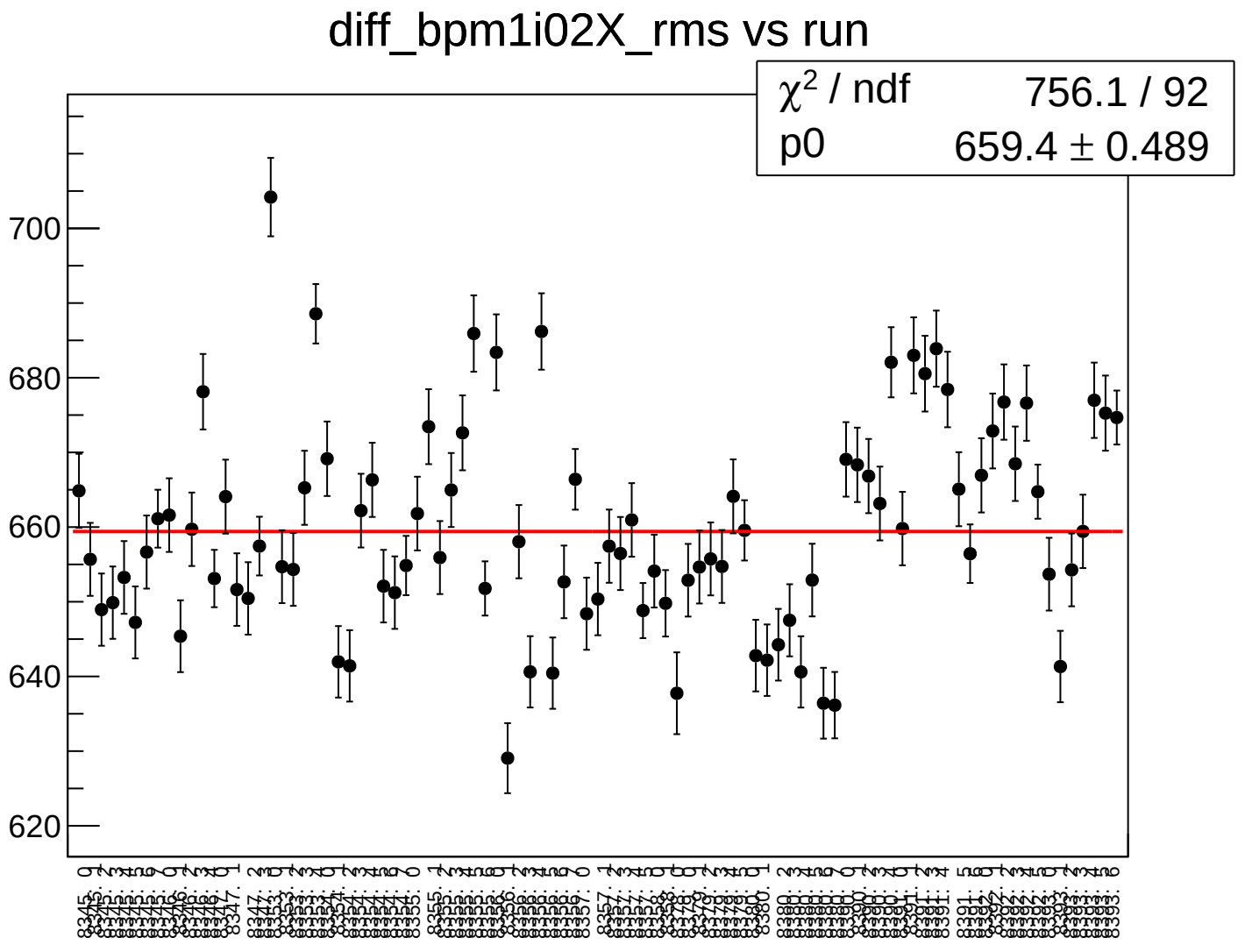

diff_bpm0i07Y_mean vs run
χ² / ndf 116.3 / 92
p0 −5.735 ± 0.925
pull
Entries 93
Mean 283.3
Std Dev 0

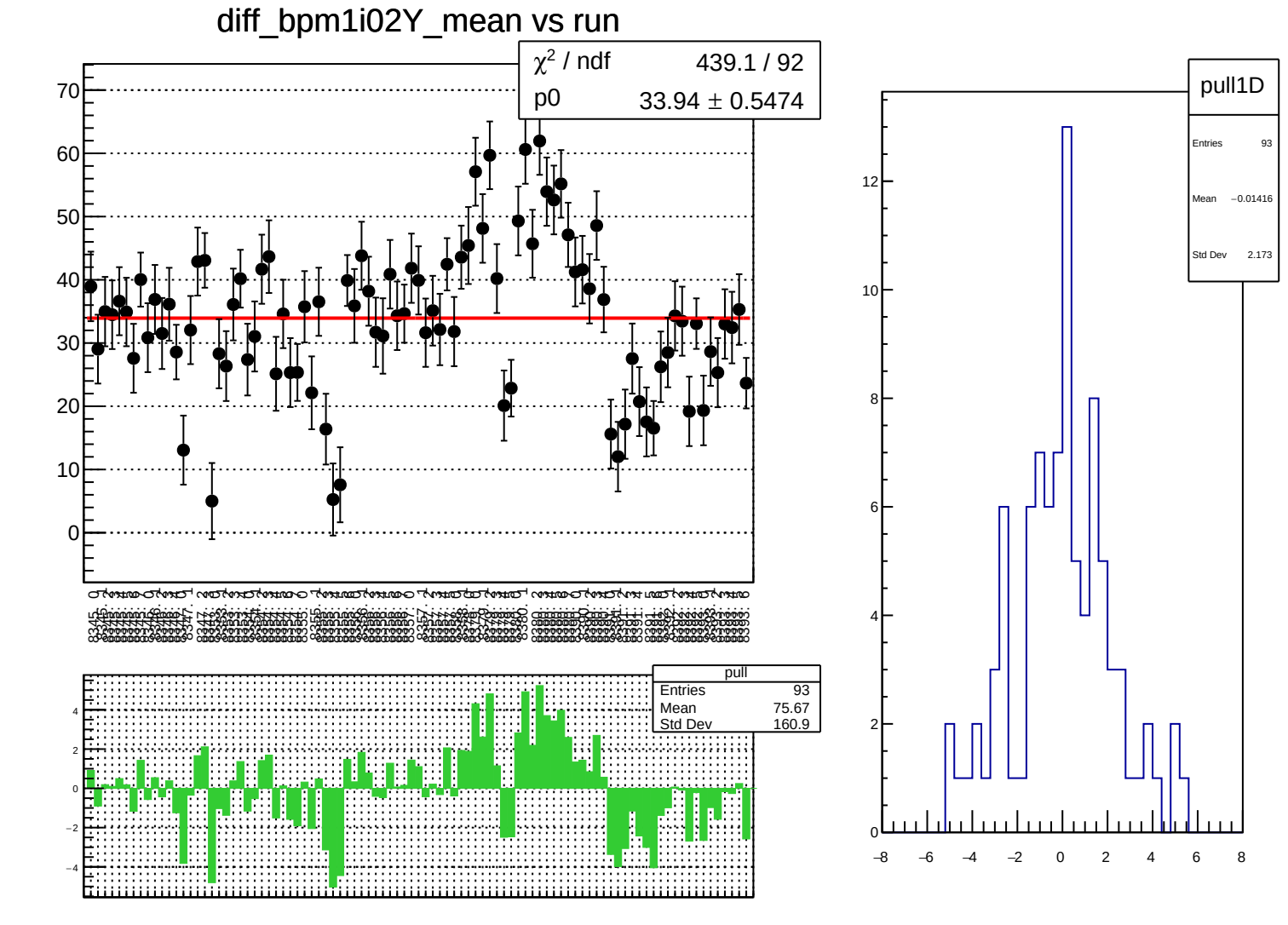

pull1D
Entries 93
Mean 0.04054
Std Dev 1.118

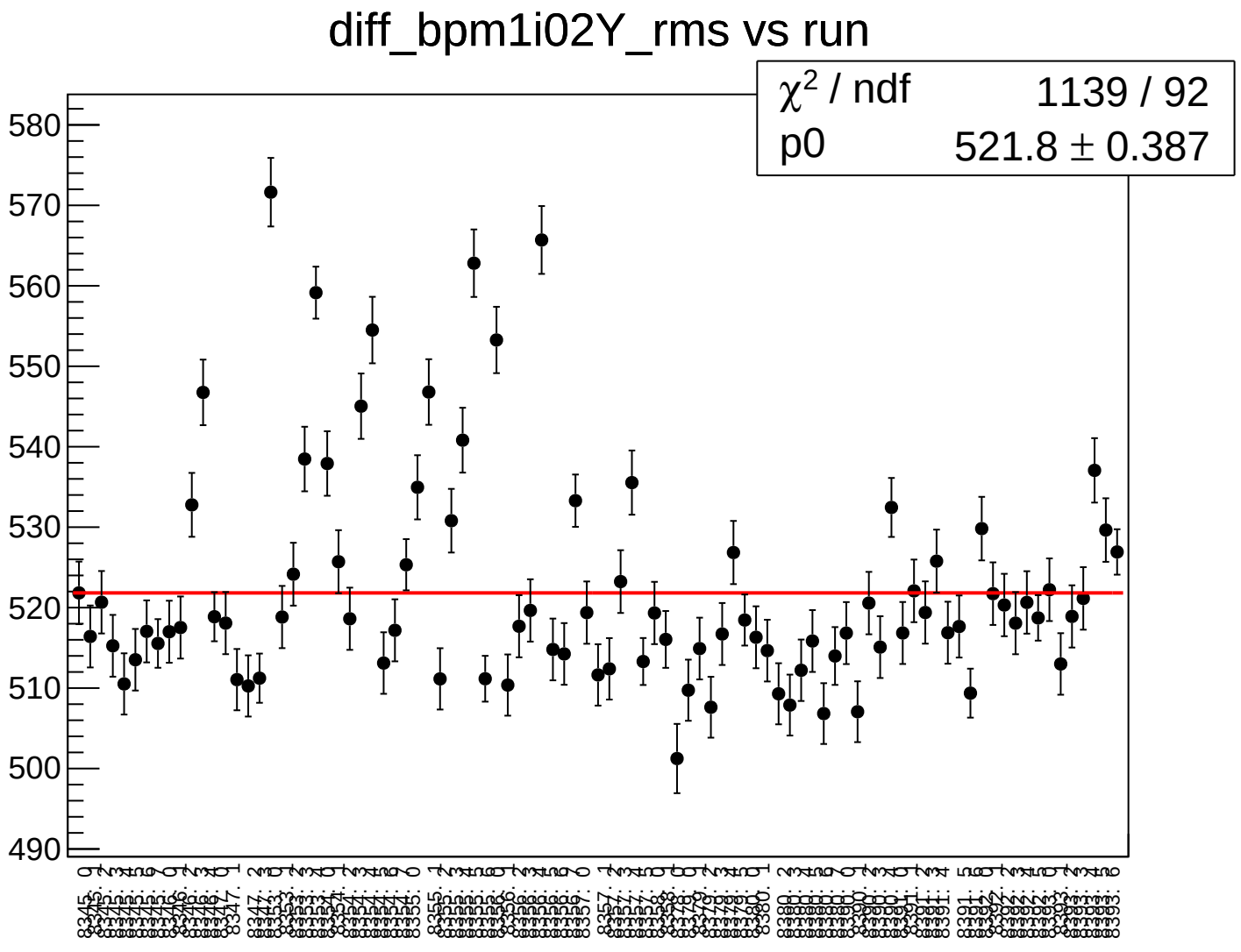

diff_bpm0i07Y_rms vs run
χ² / ndf 1.242e+04 / 92
p0 879.1 ± 0.6541
1200
1100
1000
900
800

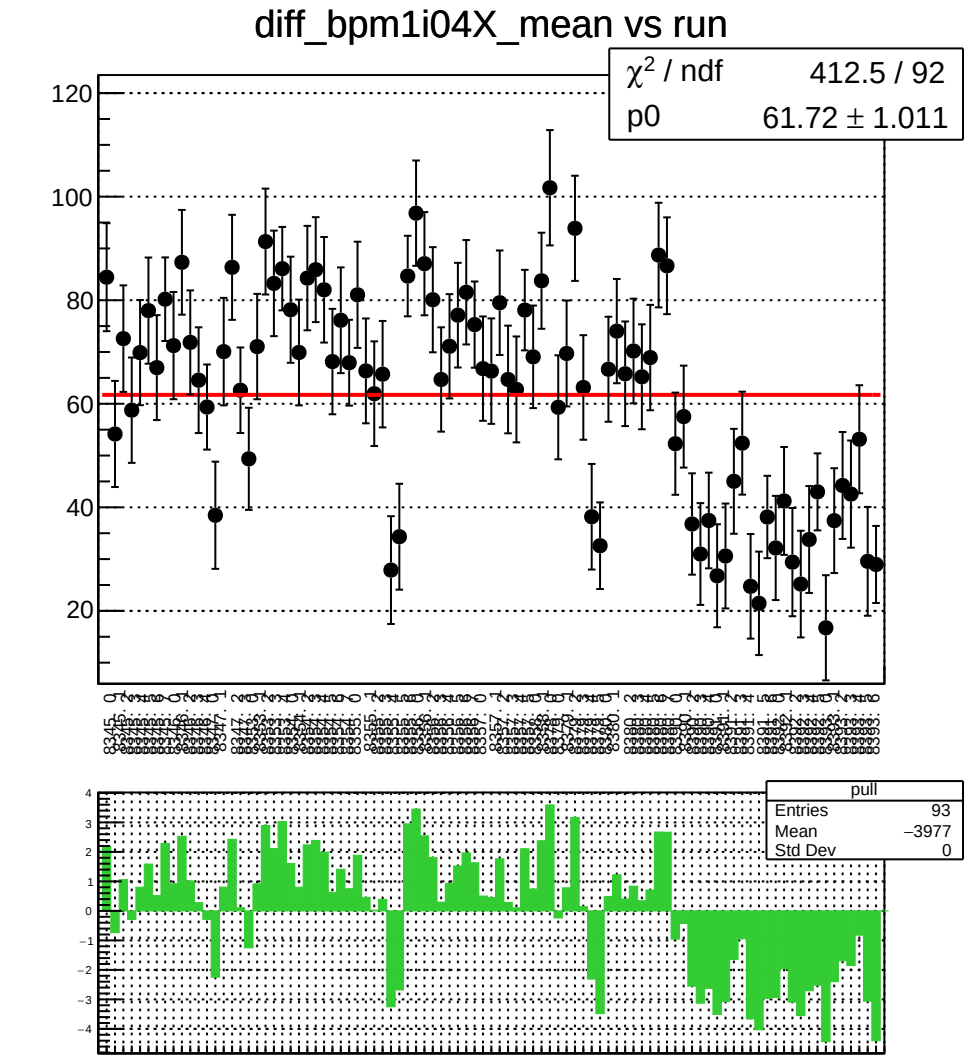

diff_bpm1i02X_mean vs run
χ² / ndf 603 / 92
p0 −65.7 ± 0.6916
pull
Entries 93
Mean 2376
Std Dev 0

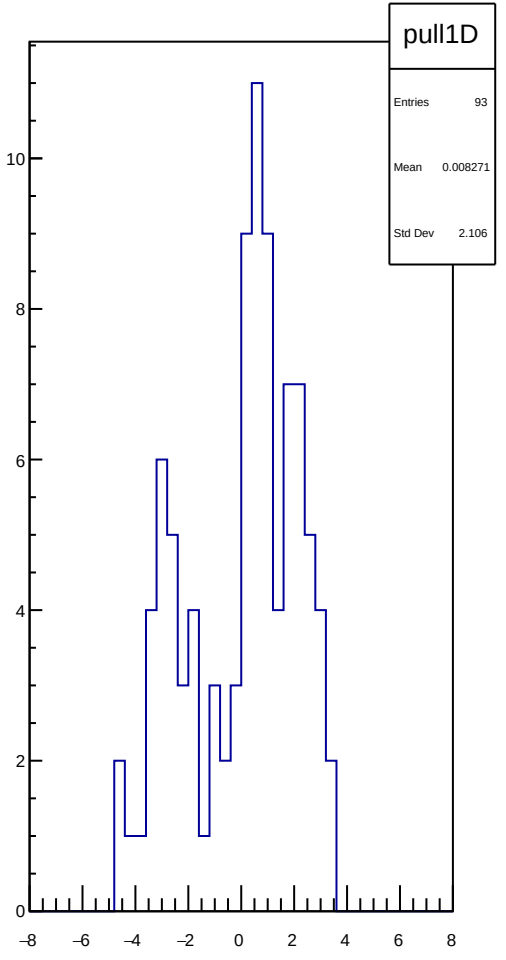

pull1D
Entries 93
Mean 0.0206
Std Dev 2.546

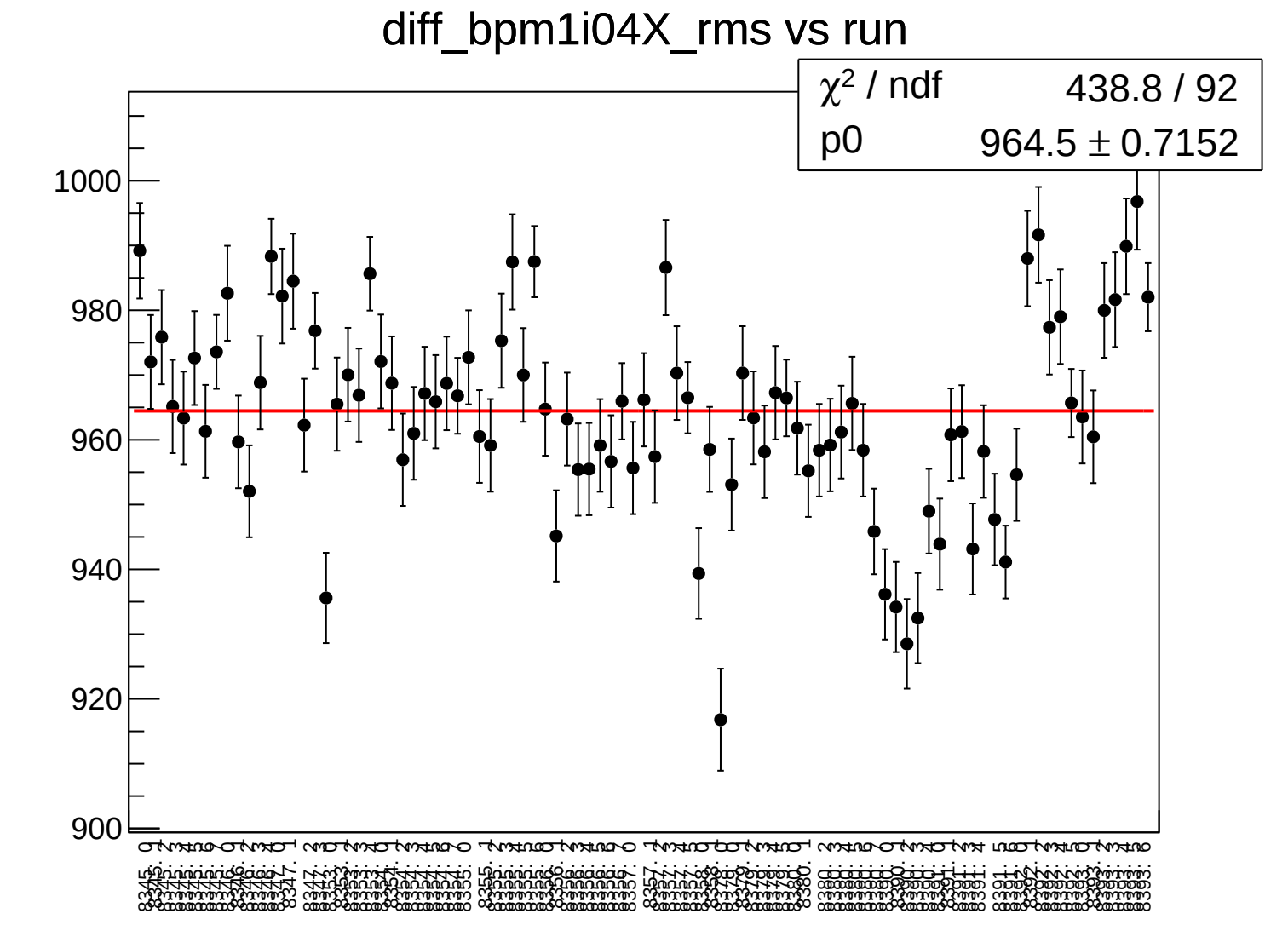

diff_bpm1i02X_rms vs run
χ² / ndf 756.1 / 92
p0 659.4 ± 0.489
700
680
660
640
620

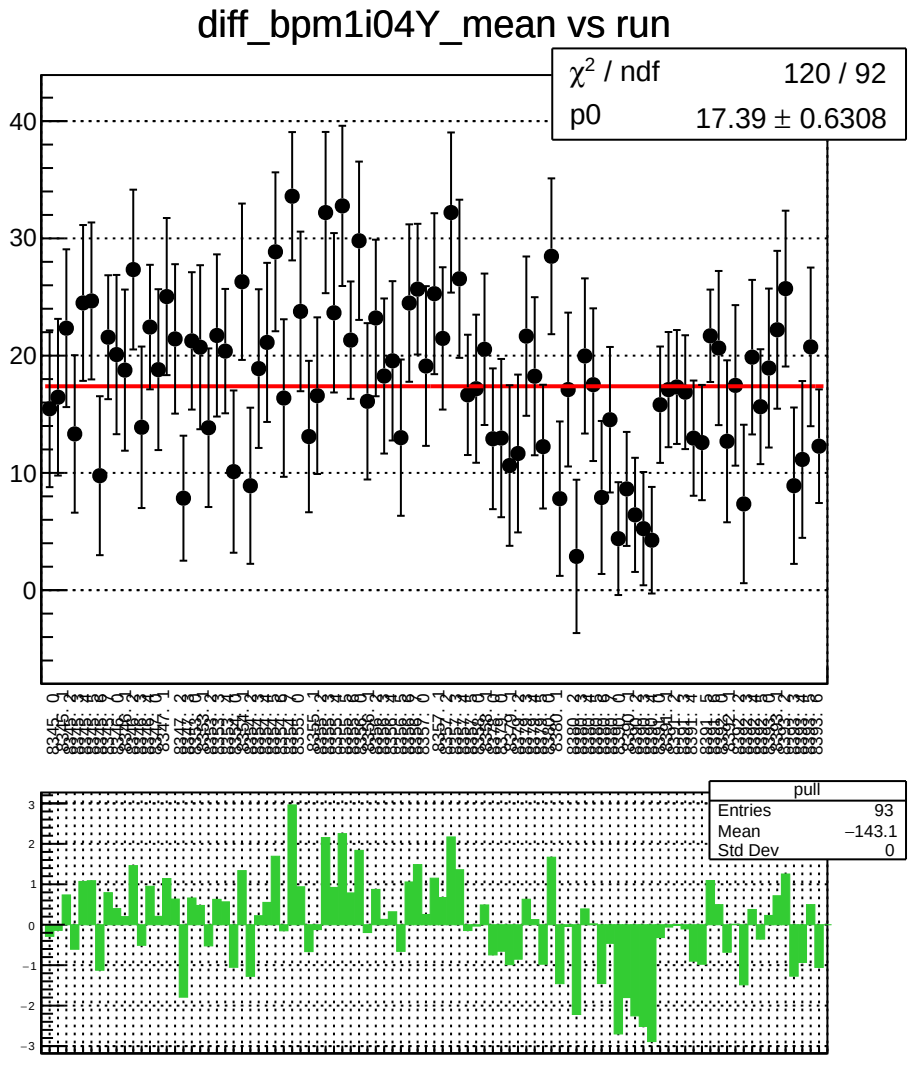

diff_bpm1i02Y_mean vs run
χ² / ndf 439.1 / 92
p0 33.94 ± 0.5474
pull
Entries 93
Mean 75.67
Std Dev 160.9
pull1D
Entries 93
Mean −0.01416
Std Dev 2.173

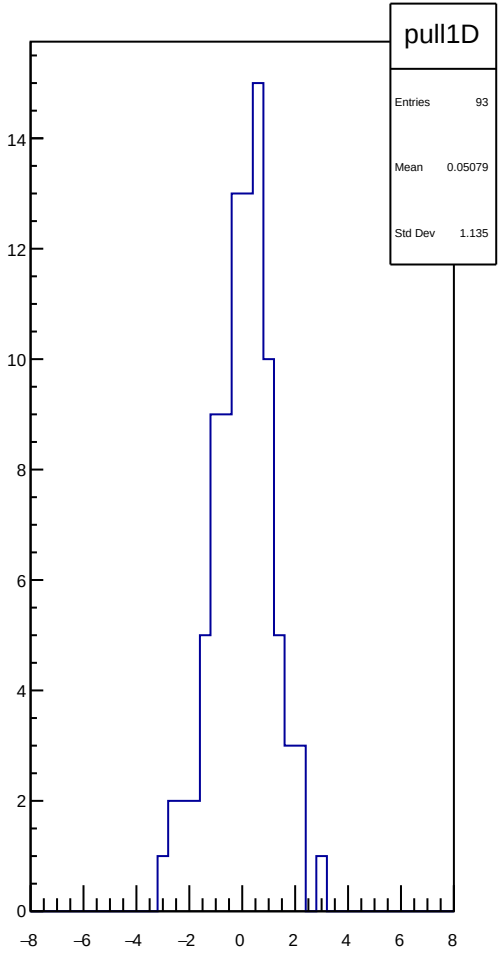

diff_bpm1i02Y_rms vs run
χ² / ndf 1139 / 92
p0 521.8 ± 0.387
580
570
560
550
540
530
520
510
500
490

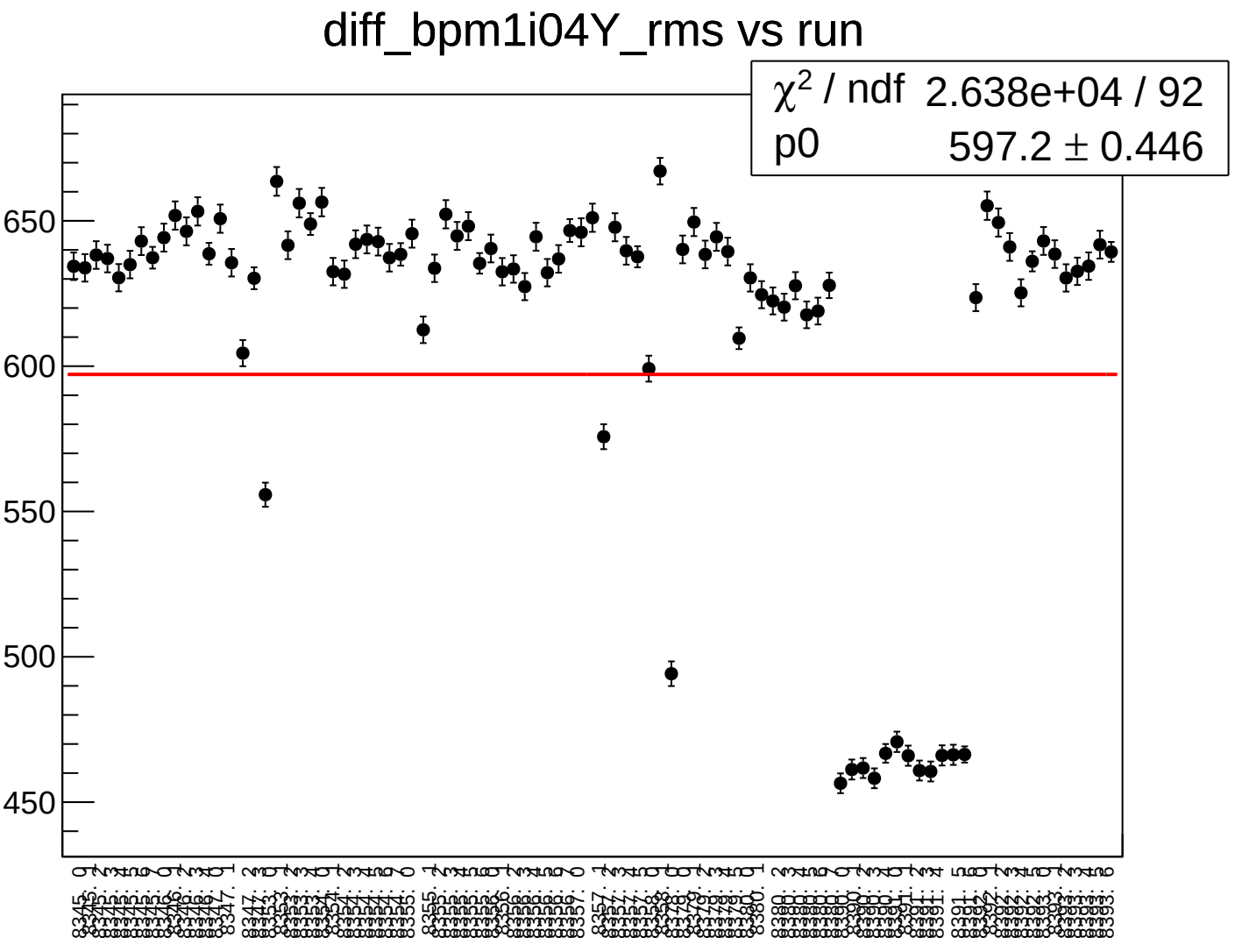

diff_bpm1i04X_mean vs run
χ² / ndf 412.5 / 92
p0 61.72 ± 1.011
120
100
80
60
40
20
pull
Entries 93
Mean −3977
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4

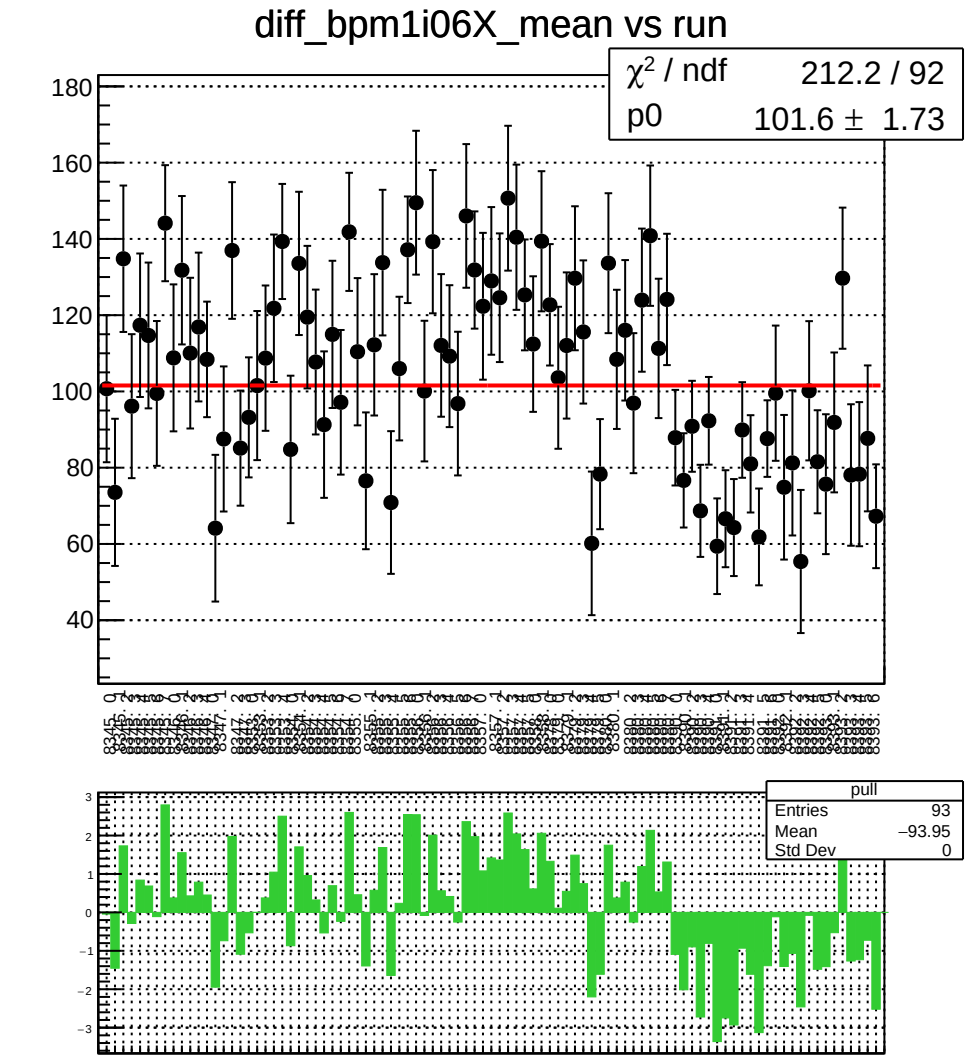

pull1D
Entries 93
Mean 0.008271
Std Dev 2.106
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

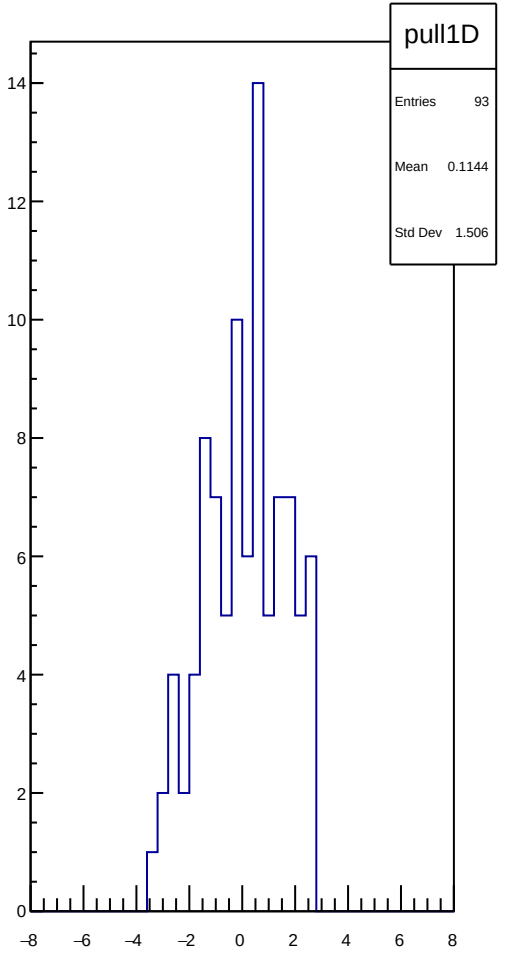

diff_bpm1i04X_rms vs run
χ² / ndf 438.8 / 92
p0 964.5 ± 0.7152
1000
980
960
940
920
900

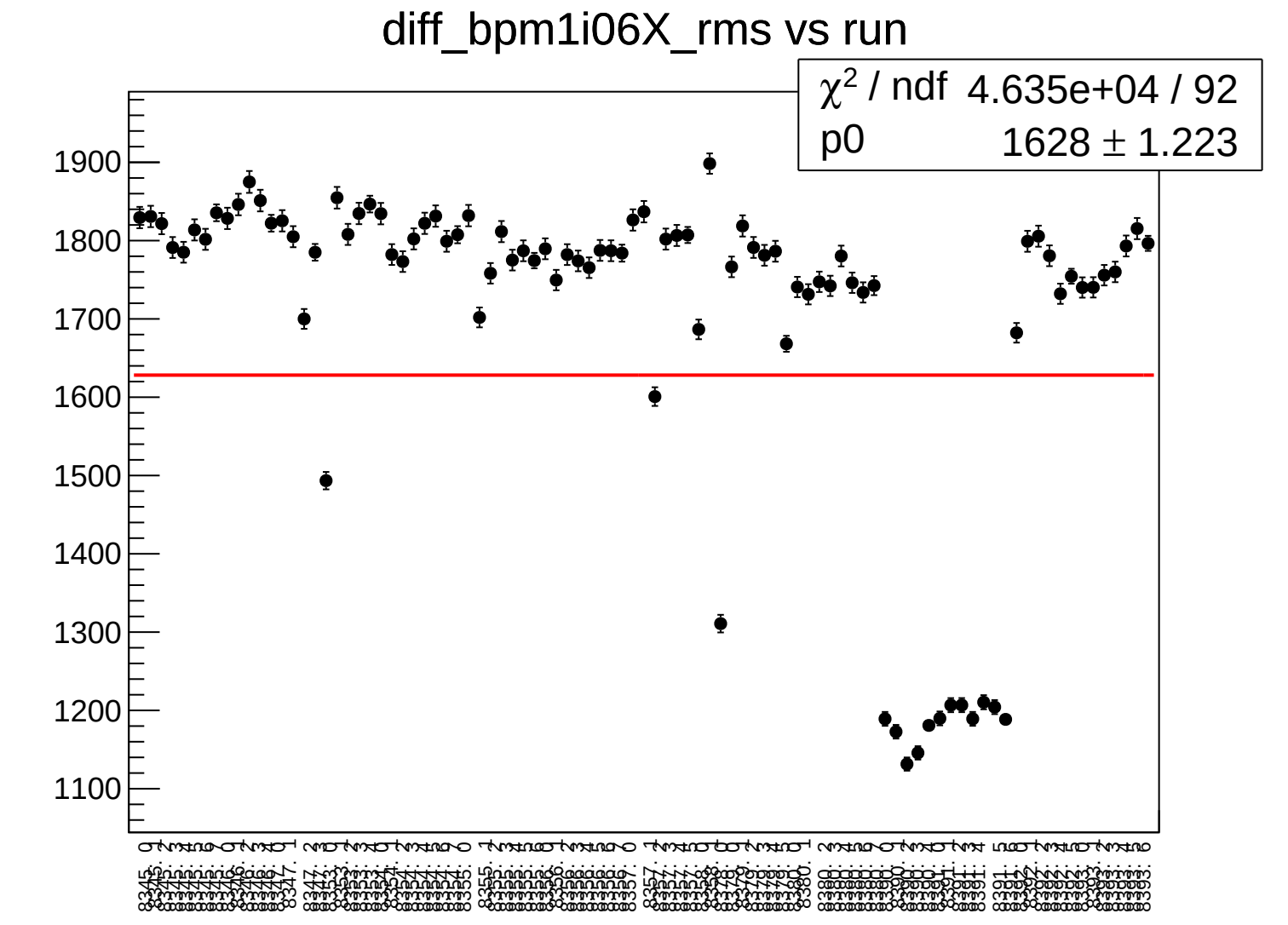

diff_bpm1i04Y_mean vs run
χ² / ndf 120 / 92
p0 17.39 ± 0.6308
pull
Entries 93
Mean −143.1
Std Dev 0

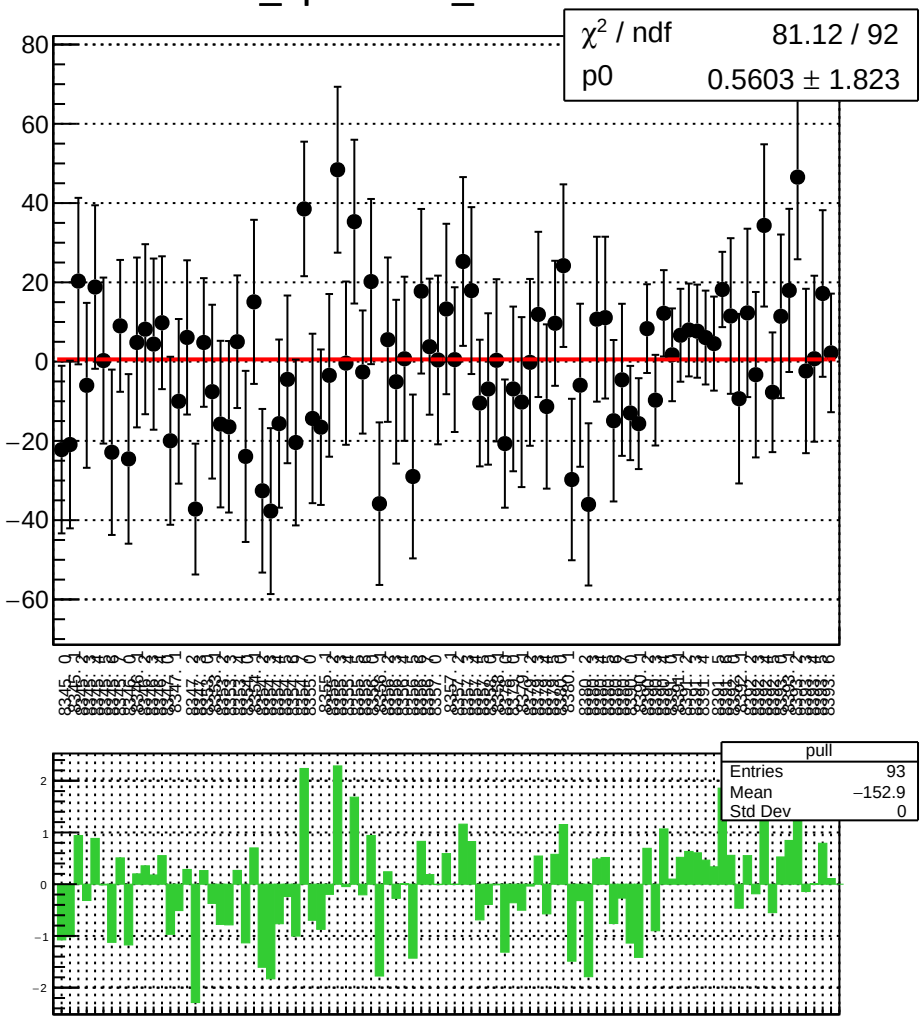

pull1D
Entries 93
Mean 0.05079
Std Dev 1.135

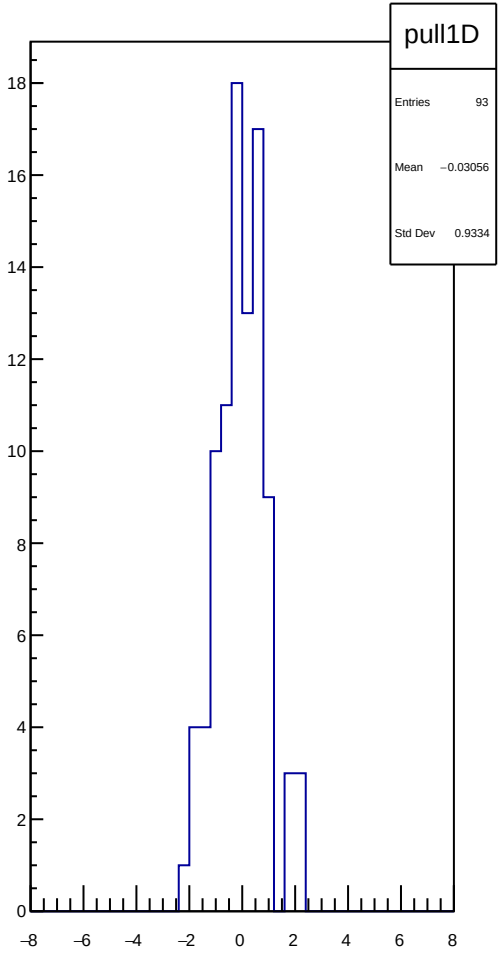

diff_bpm1i04Y_rms vs run
χ² / ndf 2.638e+04 / 92
p0 597.2 ± 0.446
650
600
550
500
450

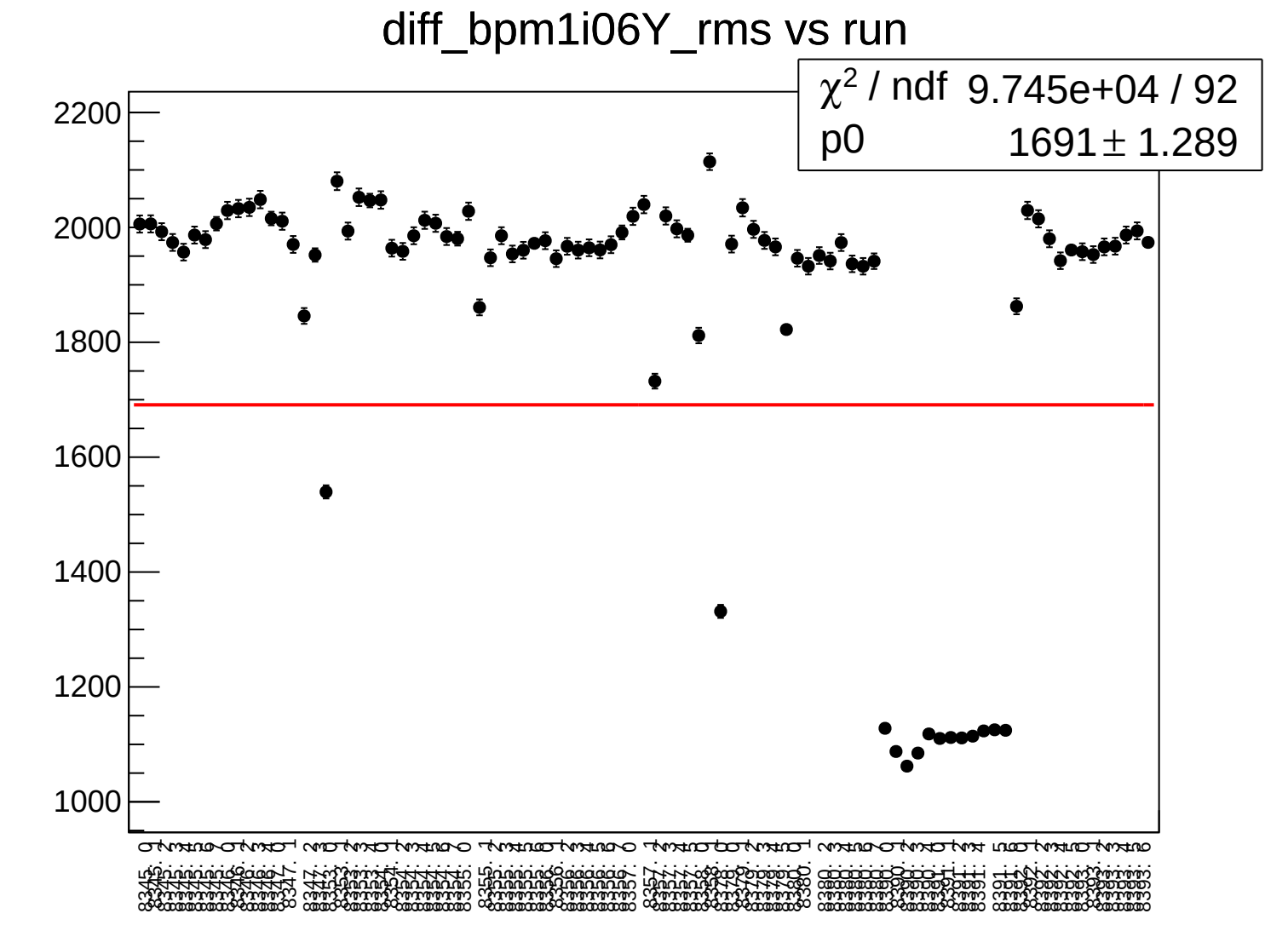

diff_bpm1i06X_mean vs run
χ² / ndf 212.2 / 92
p0 101.6 ± 1.73
pull
Entries 93
Mean −93.95
Std Dev 0

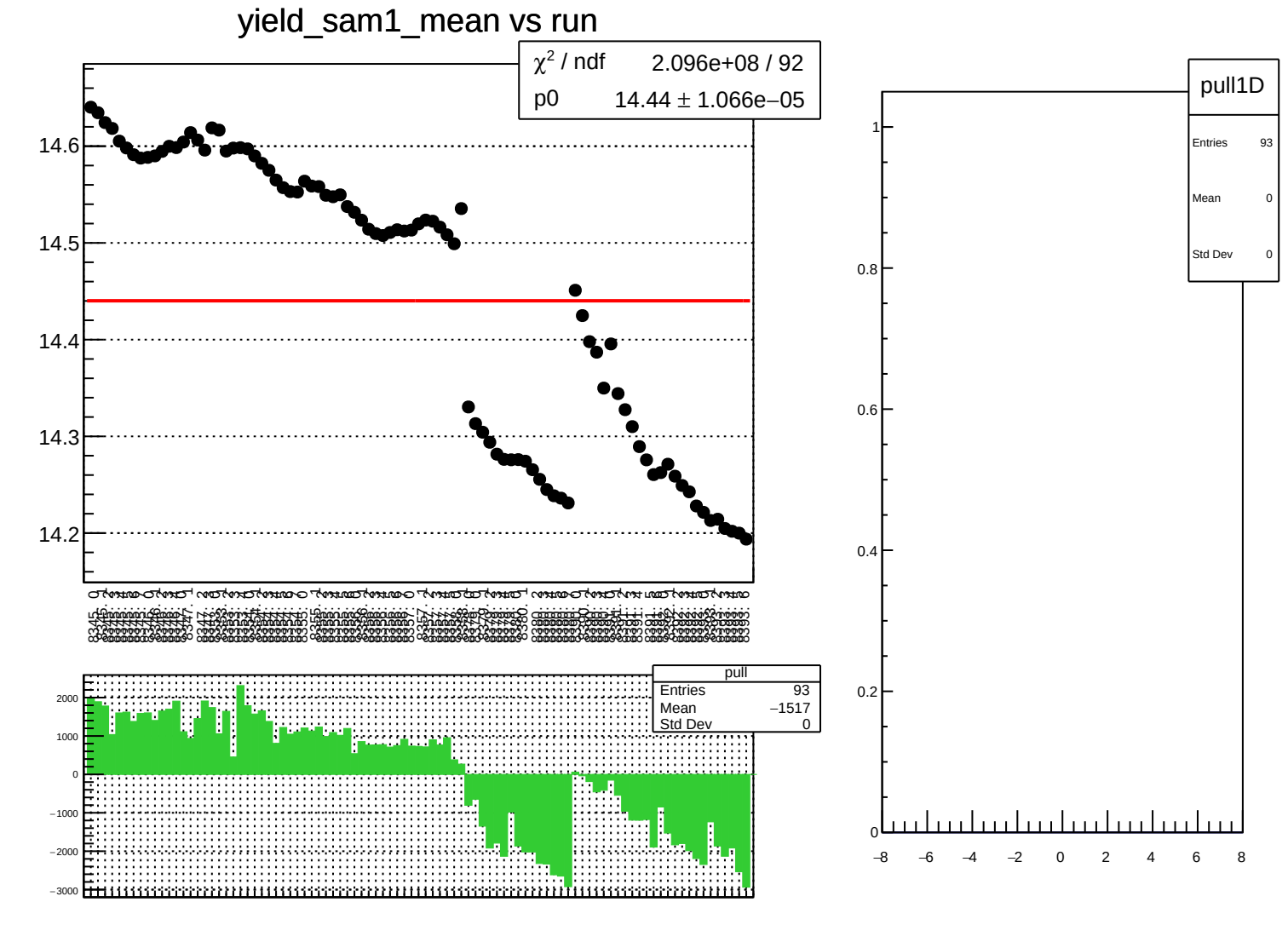

pull1D
Entries 93
Mean 0.1144
Std Dev 1.506

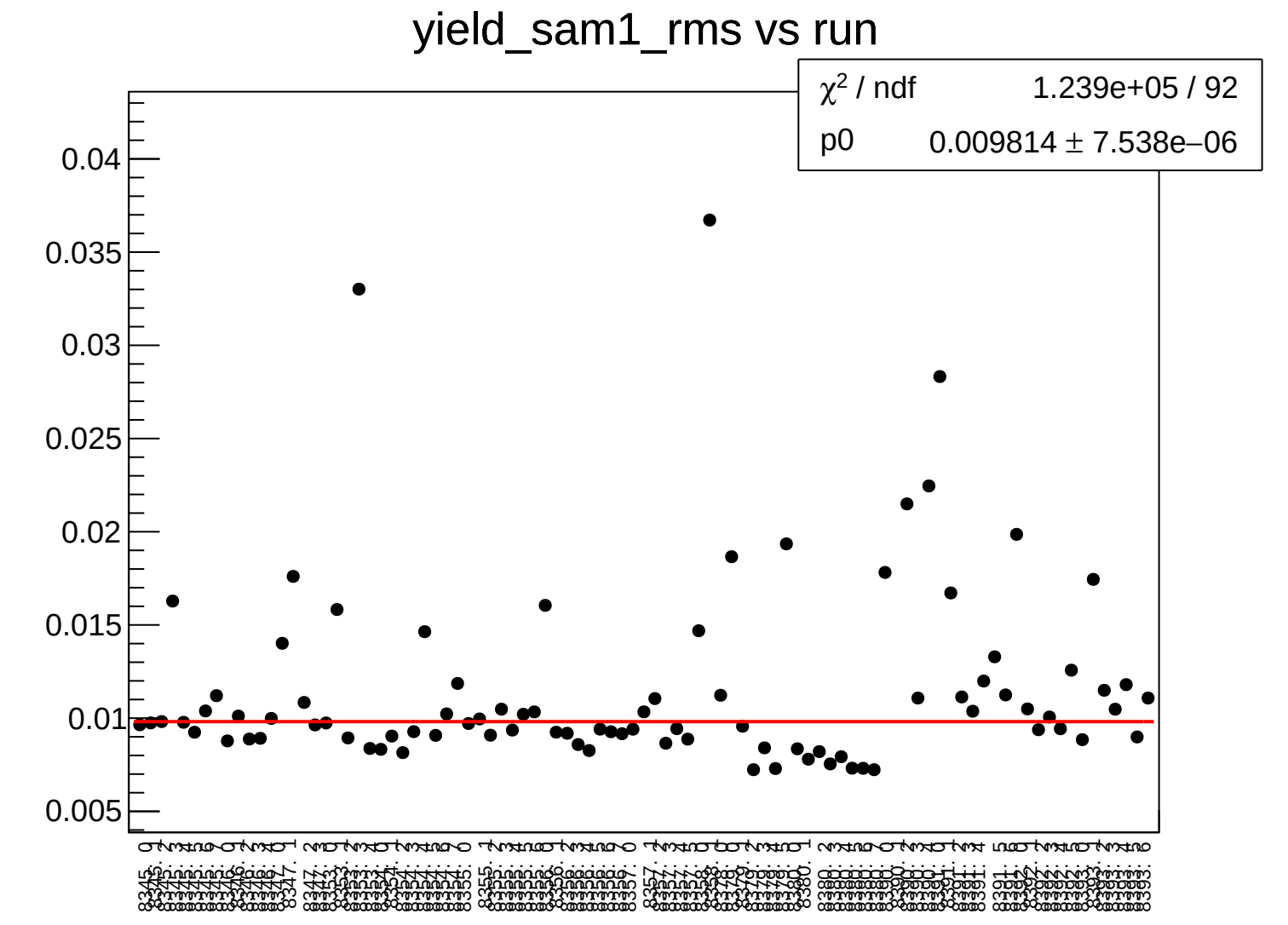

diff_bpm1i06X_rms vs run
χ² / ndf 4.635e+04 / 92
p0 1628 ± 1.223
1900
1800
1700
1600
1500
1400
1300
1200
1100

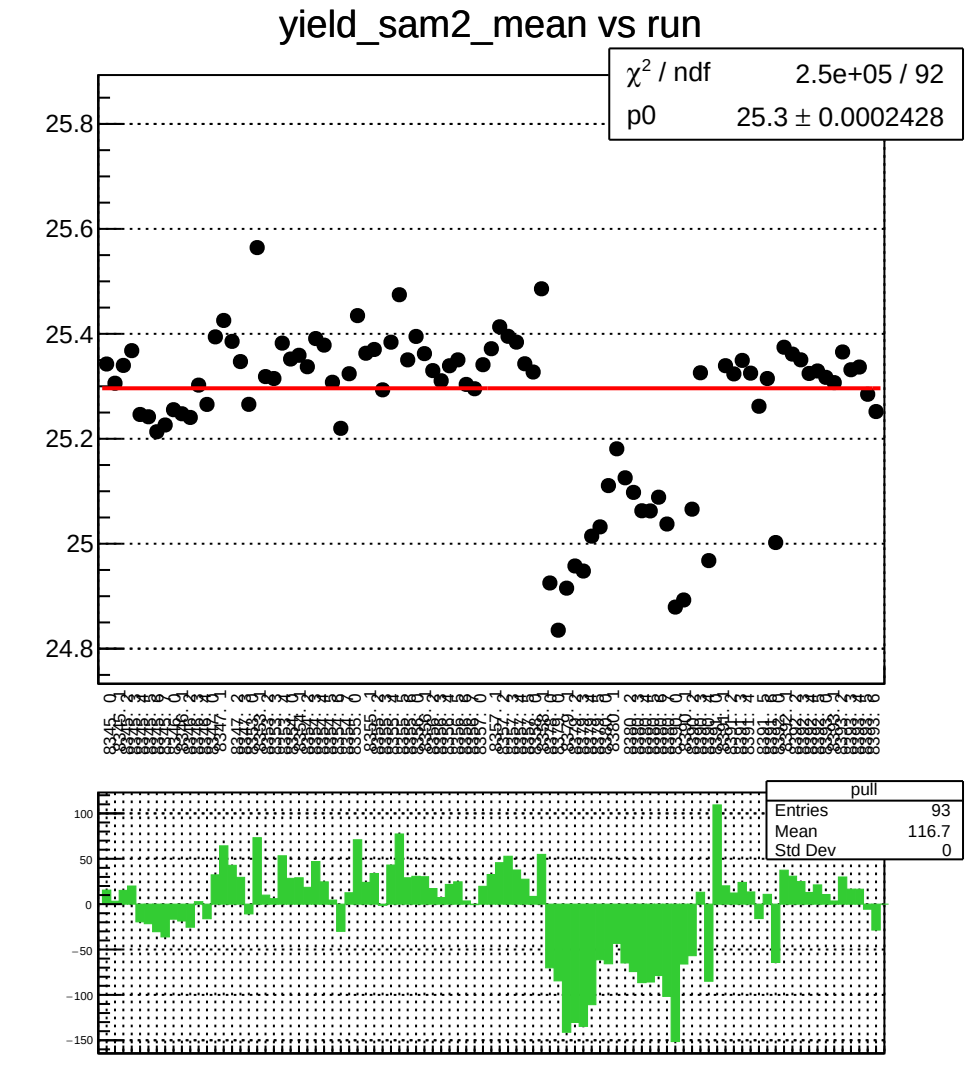

diff_bpm1i06Y_mean vs run
χ² / ndf 81.12 / 92
p0 0.5603 ± 1.823
pull
Entries 93
Mean −152.9
Std Dev 0

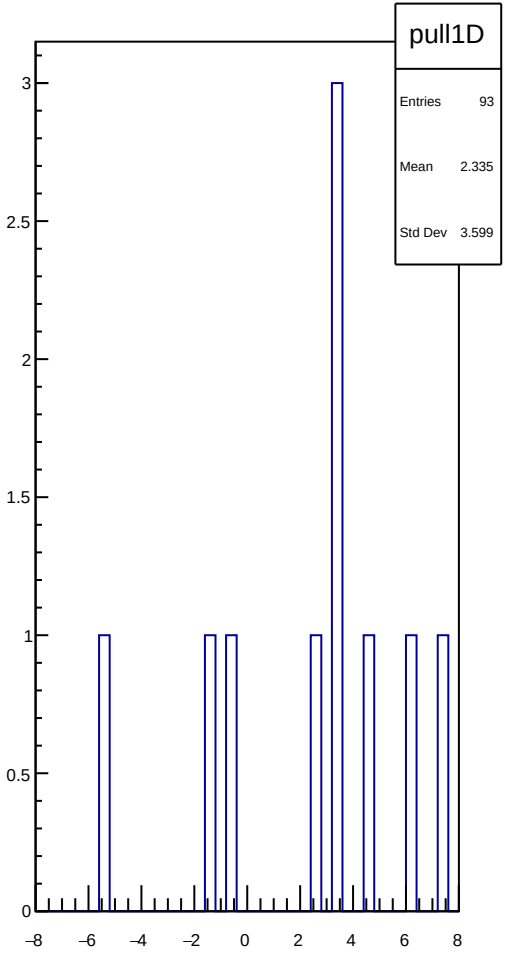

pull1D
Entries 93
Mean −0.03056
Std Dev 0.9334

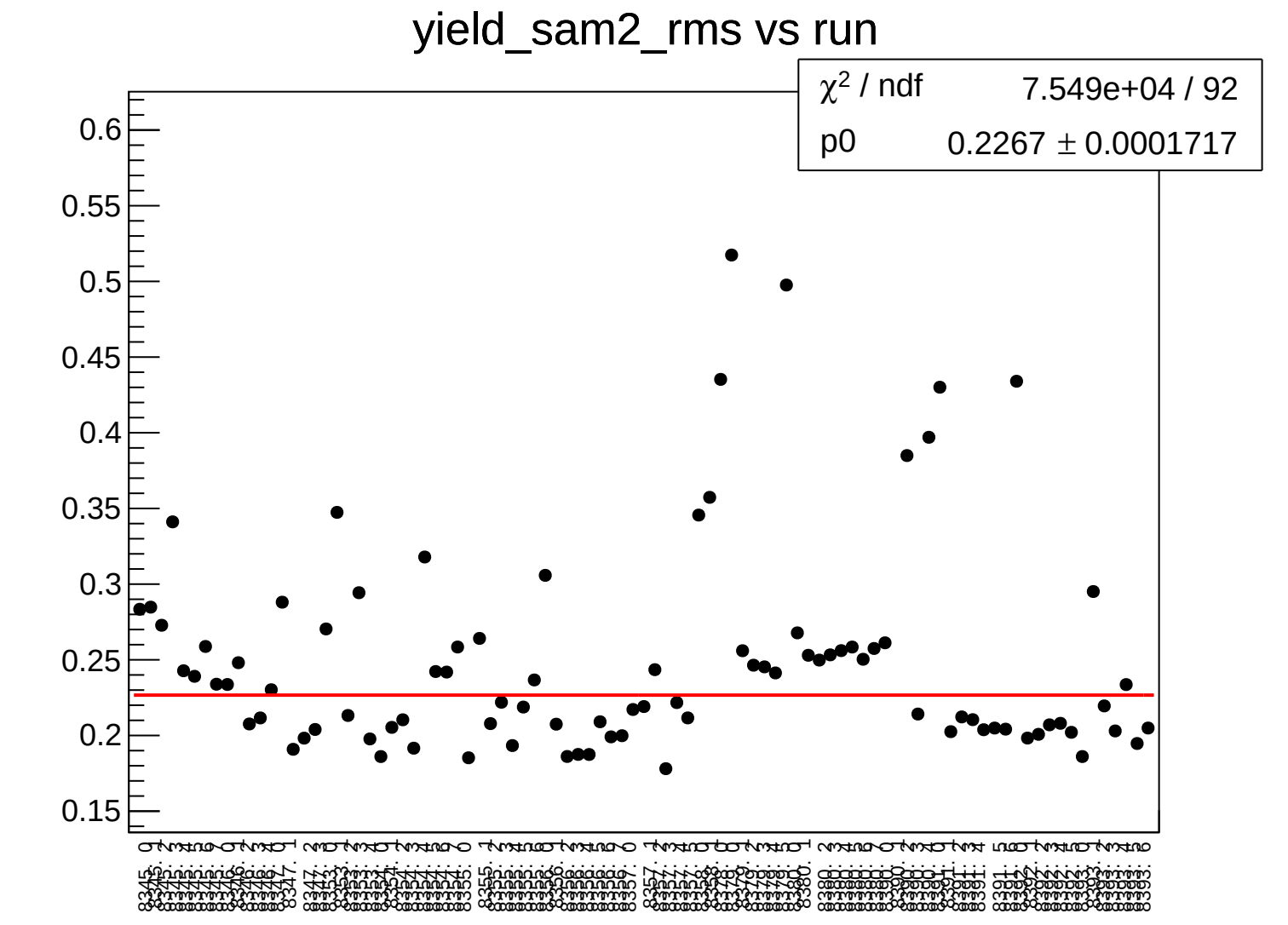

diff_bpm1i06Y_rms vs run
χ^2 / ndf 9.745e+04 / 92
p0 1691 ± 1.289
2200
2000
1800
1600
1400
1200
1000

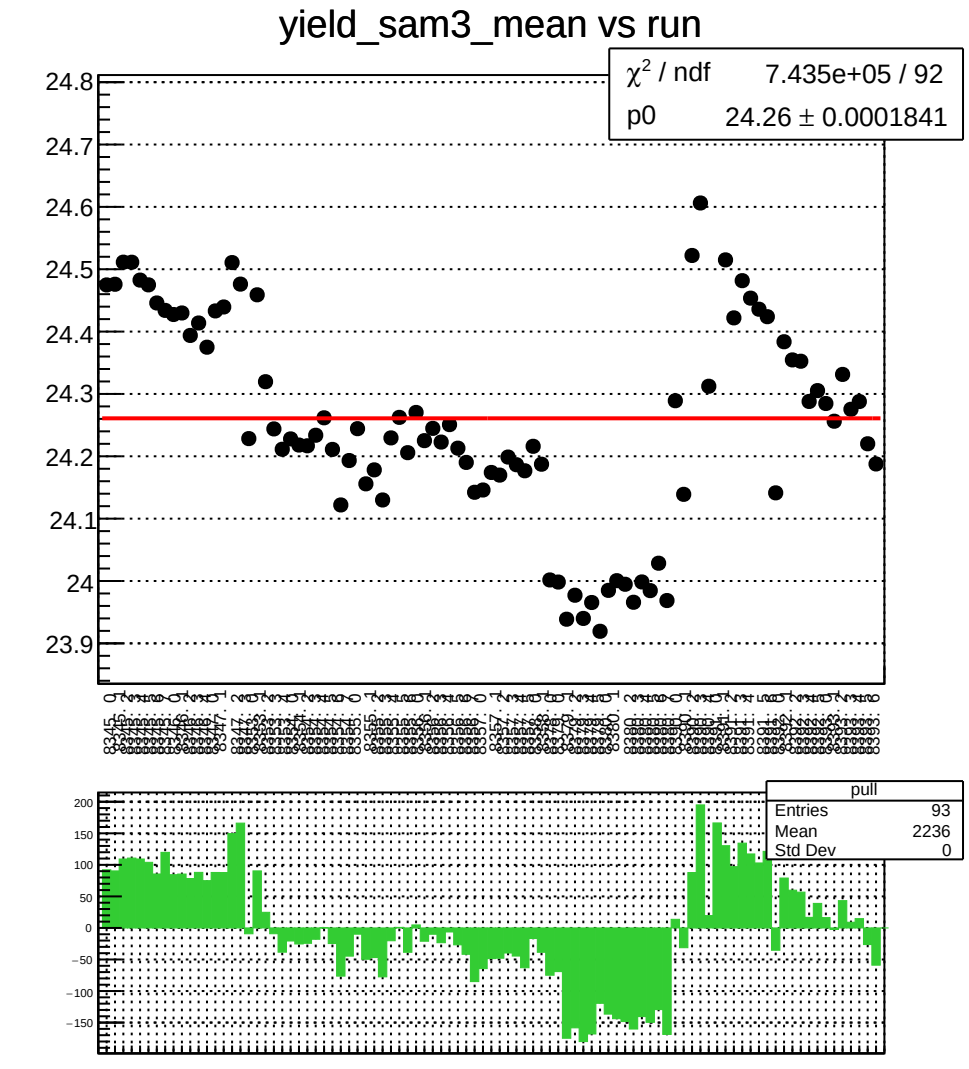

yield_sam1_mean vs run
χ² / ndf 2.096e+08 / 92
p0 14.44 ± 1.066e−05
14.6
14.5
14.4
14.3
14.2
pull
Entries 93
Mean −1517
Std Dev 0
2000
1000
0
−1000
−2000
−3000
pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

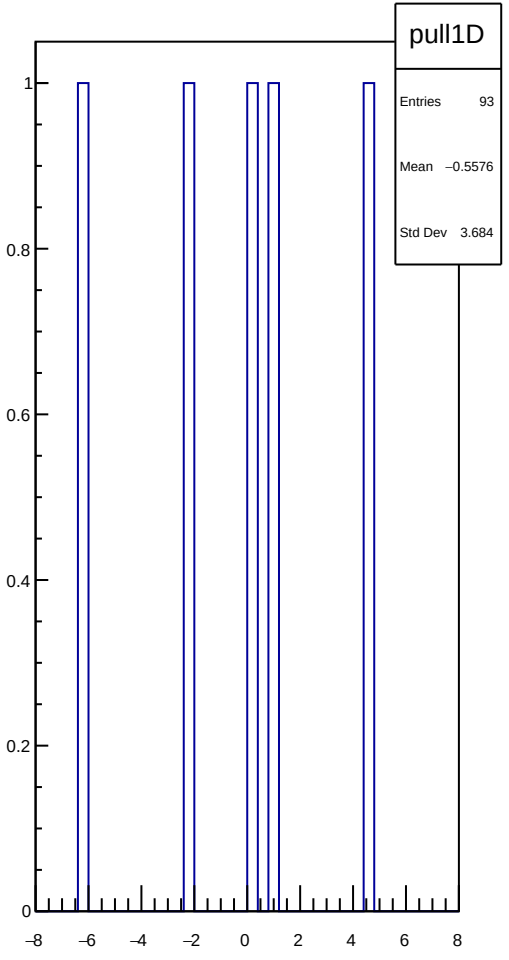

yield_sam1_rms vs run
χ² / ndf 1.239e+05 / 92
p0 0.009814 ± 7.538e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

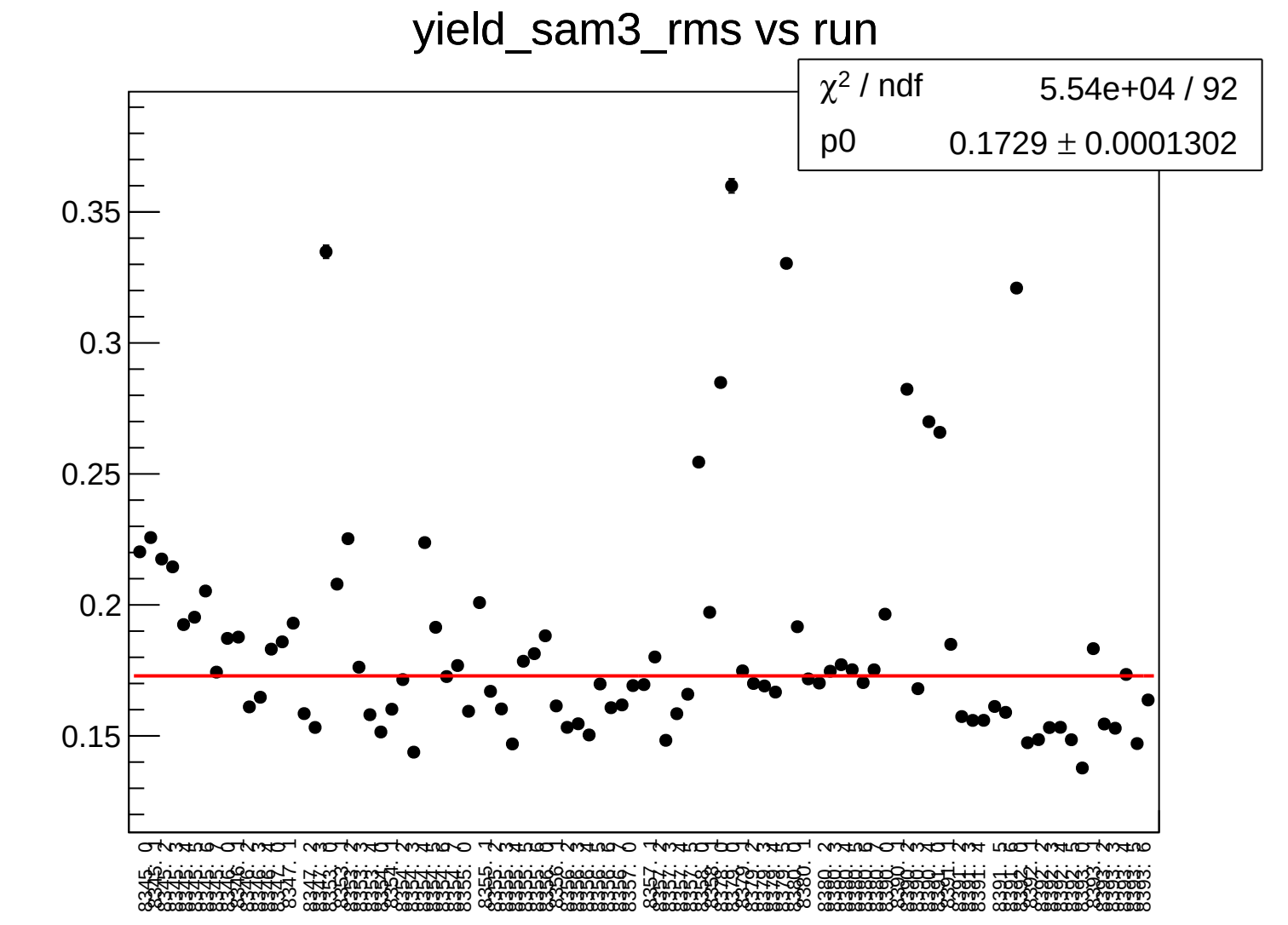

yield_sam2_mean vs run
χ² / ndf 2.5e+05 / 92
p0 25.3 ± 0.0002428
25.8
25.6
25.4
25.2
25
24.8
pull
Entries 93
Mean 116.7
Std Dev 0
100
50
0
−50
−100
−150

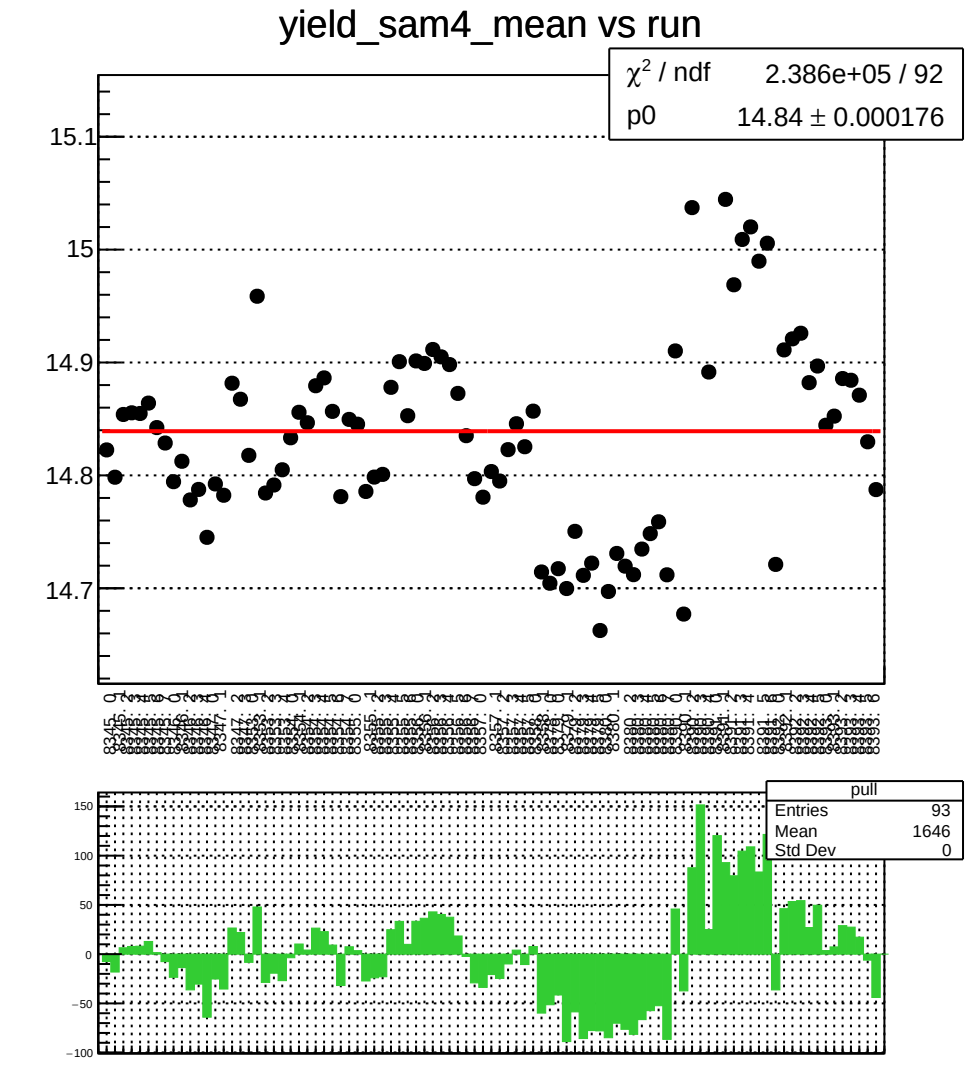

pull1D
Entries 93
Mean 2.335
Std Dev 3.599
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

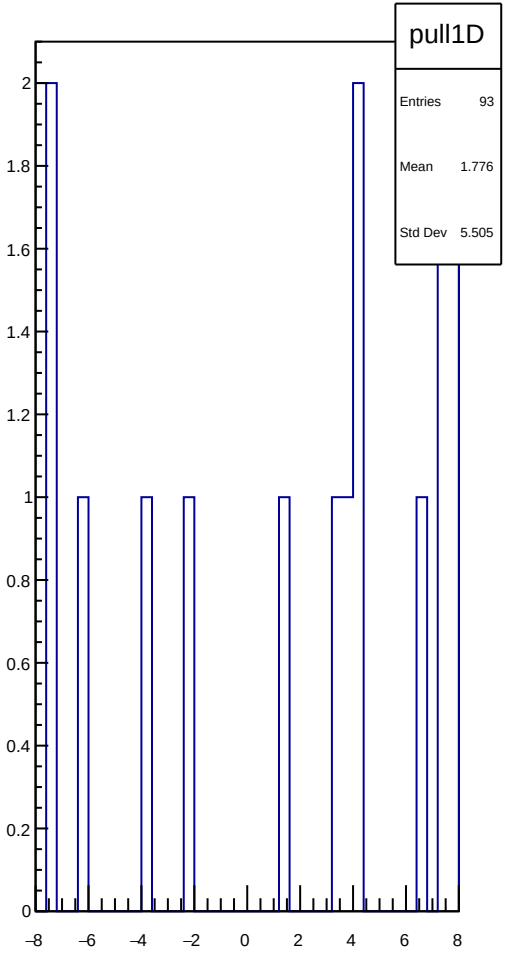

yield_sam2_rms vs run
χ² / ndf 7.549e+04 / 92
p0 0.2267 ± 0.0001717
0.6
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15

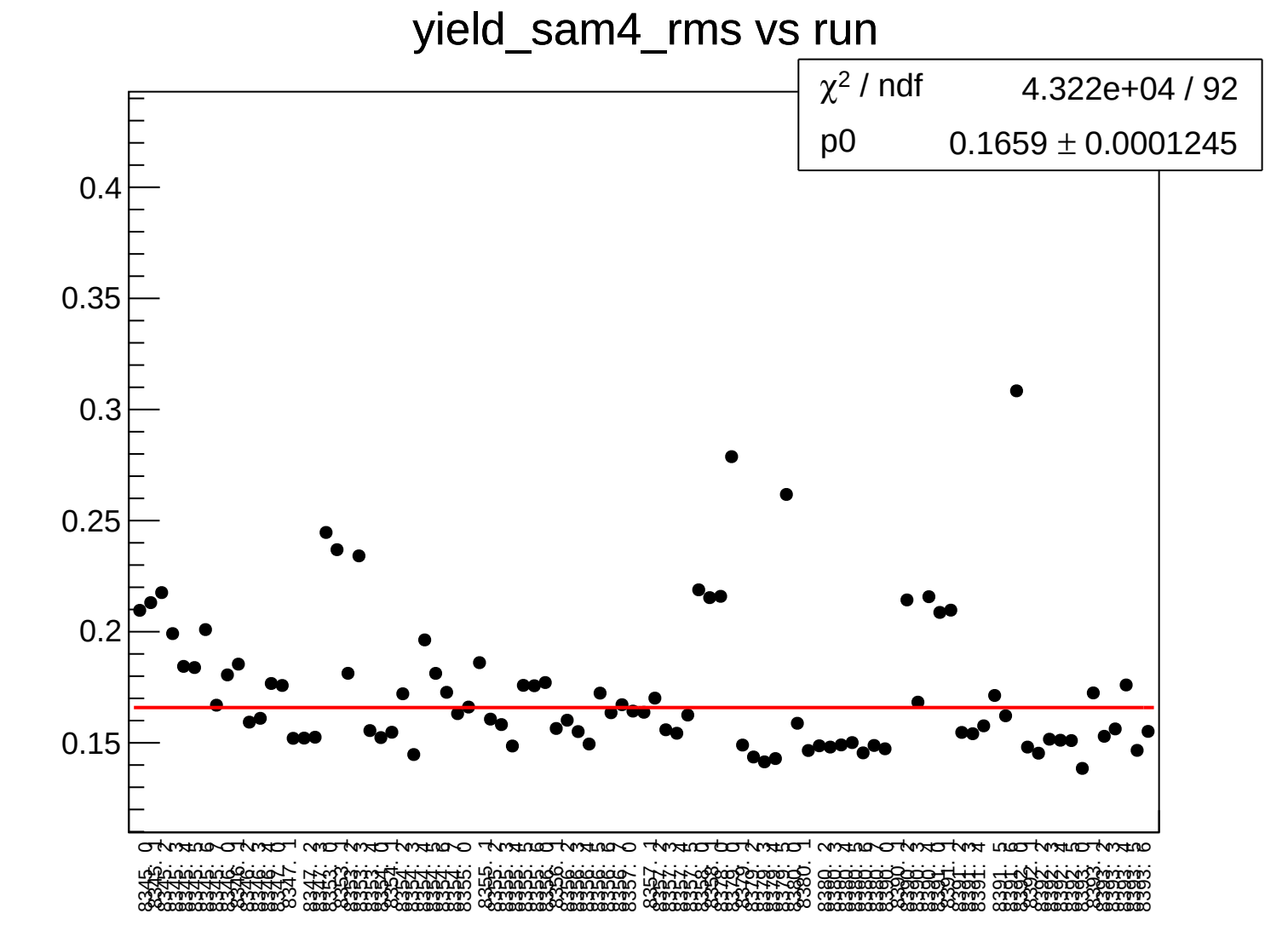

yield_sam3_mean vs run
χ² / ndf 7.435e+05 / 92
p0 24.26 ± 0.0001841
24.8
24.7
24.6
24.5
24.4
24.3
24.2
24.1
24
23.9
pull
Entries 93
Mean 2236
Std Dev 0
200
150
100
50
0
−50
−100
−150

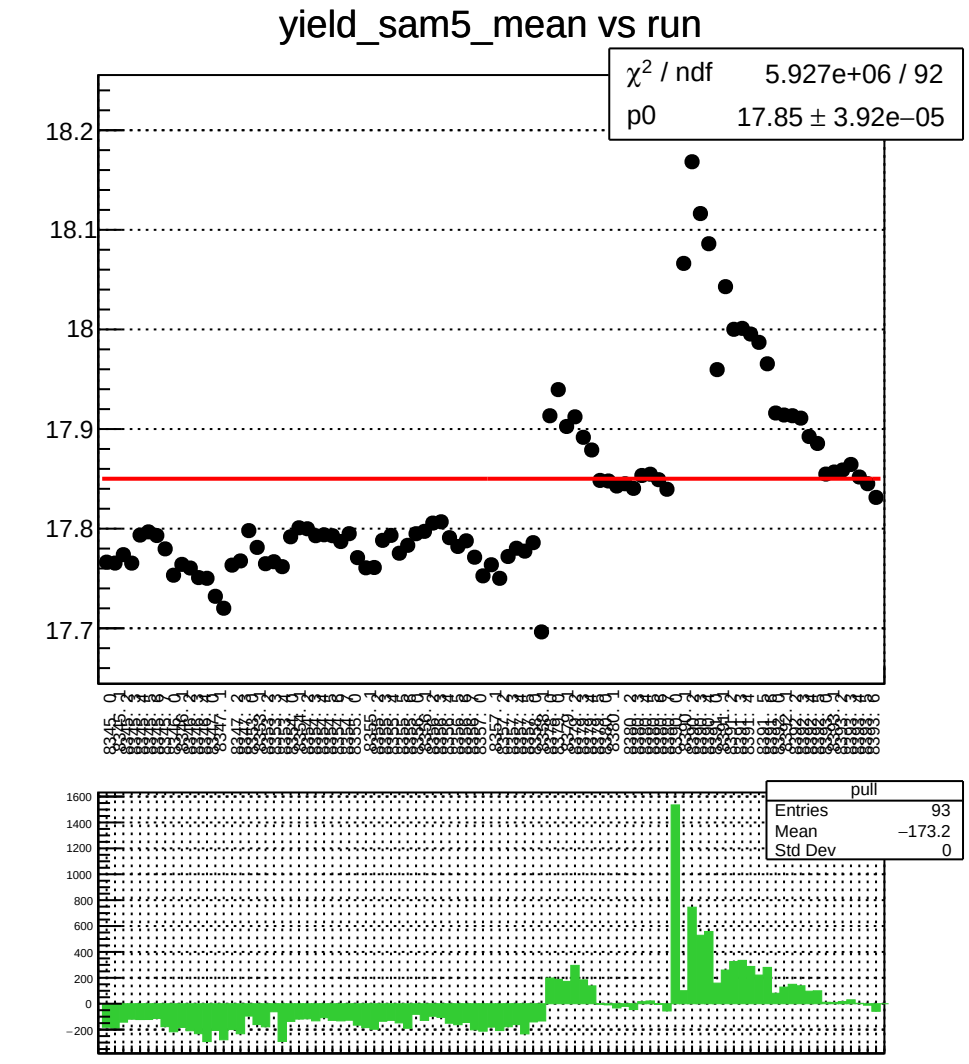

pull1D
Entries 93
Mean −0.5576
Std Dev 3.684
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

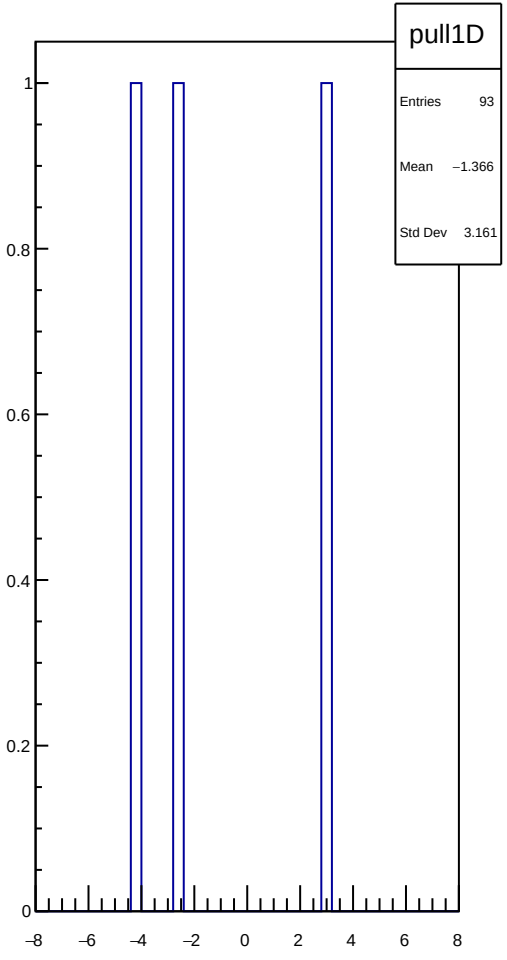

yield_sam3_rms vs run
χ² / ndf 5.54e+04 / 92
p0 0.1729 ± 0.0001302
0.35
0.3
0.25
0.2
0.15

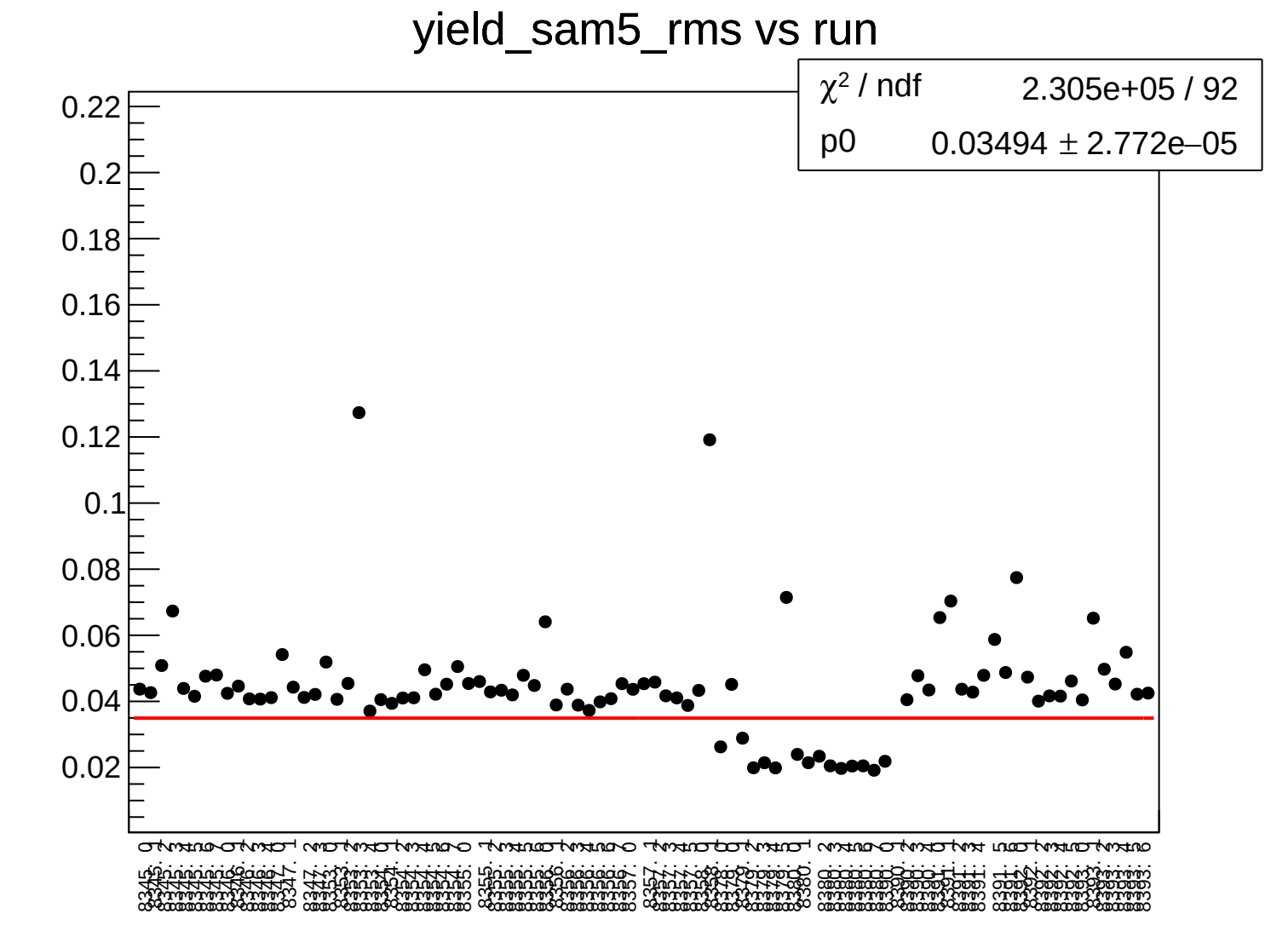

yield_sam4_mean vs run
χ² / ndf 2.386e+05 / 92
p0 14.84 ± 0.000176
15.1
15
14.9
14.8
14.7
pull
Entries 93
Mean 1646
Std Dev 0
150
100
50
0
−50
−100

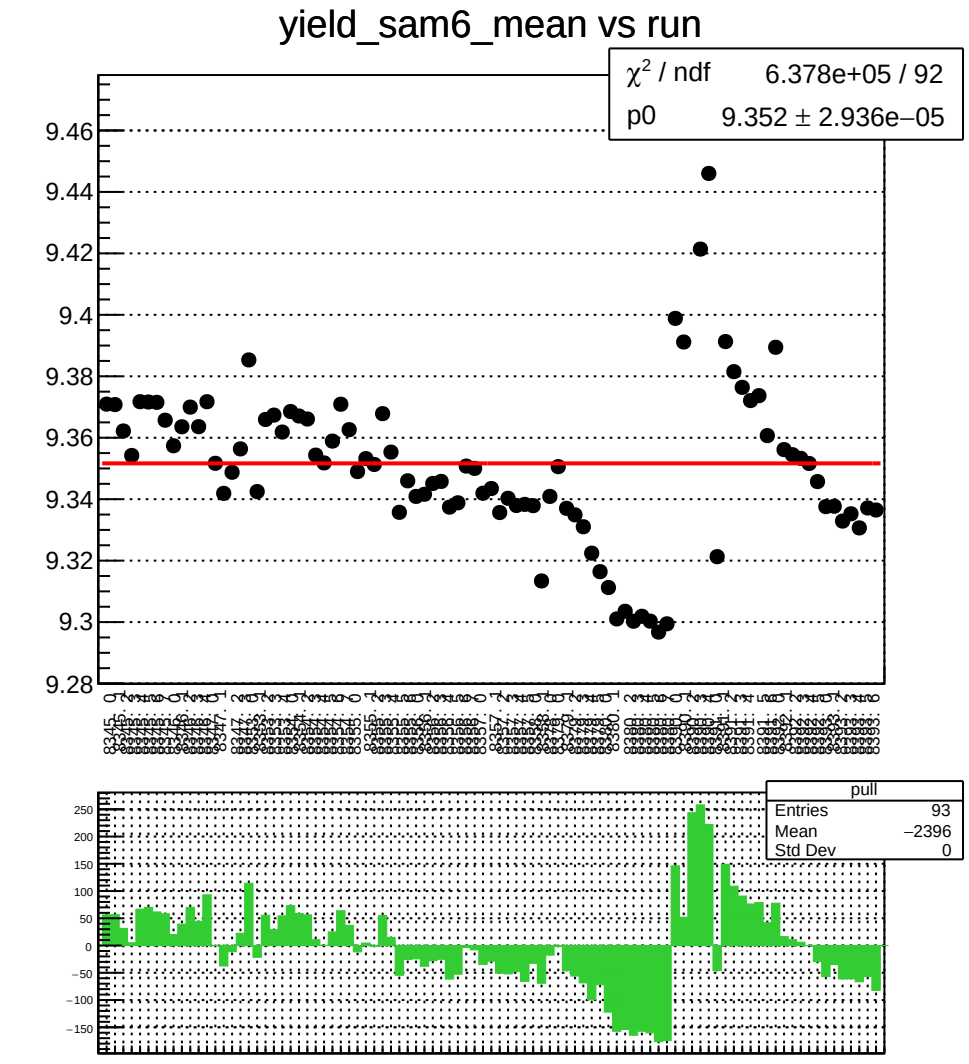

pull1D
Entries 93
Mean 1.776
Std Dev 5.505
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

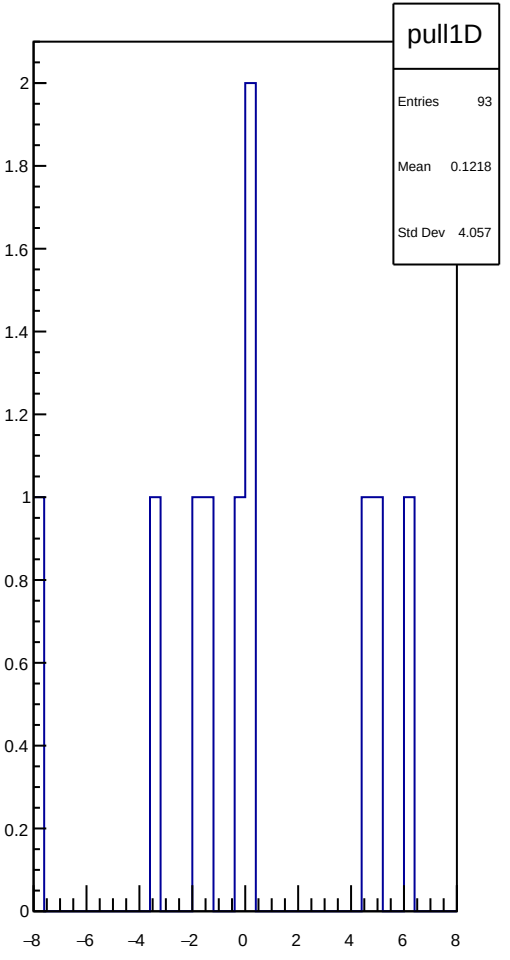

yield_sam4_rms vs run
χ² / ndf 4.322e+04 / 92
p0 0.1659 ± 0.0001245
0.4
0.35
0.3
0.25
0.2
0.15

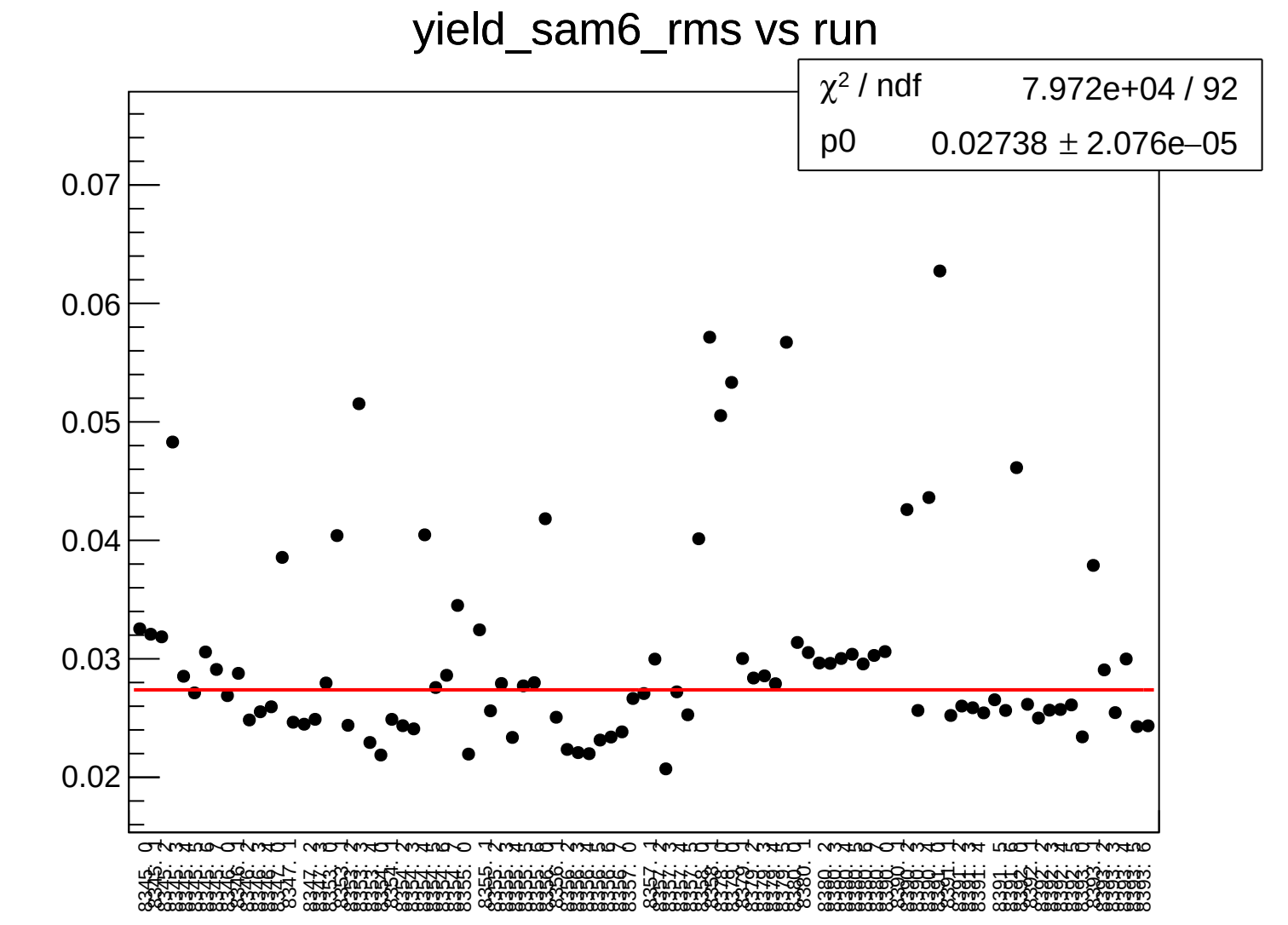

yield_sam5_mean vs run
χ² / ndf 5.927e+06 / 92
p0 17.85 ± 3.92e−05
18.2
18.1
18
17.9
17.8
17.7
pull
Entries 93
Mean −173.2
Std Dev 0
1600
1400
1200
1000
800
600
400
200
0
−200

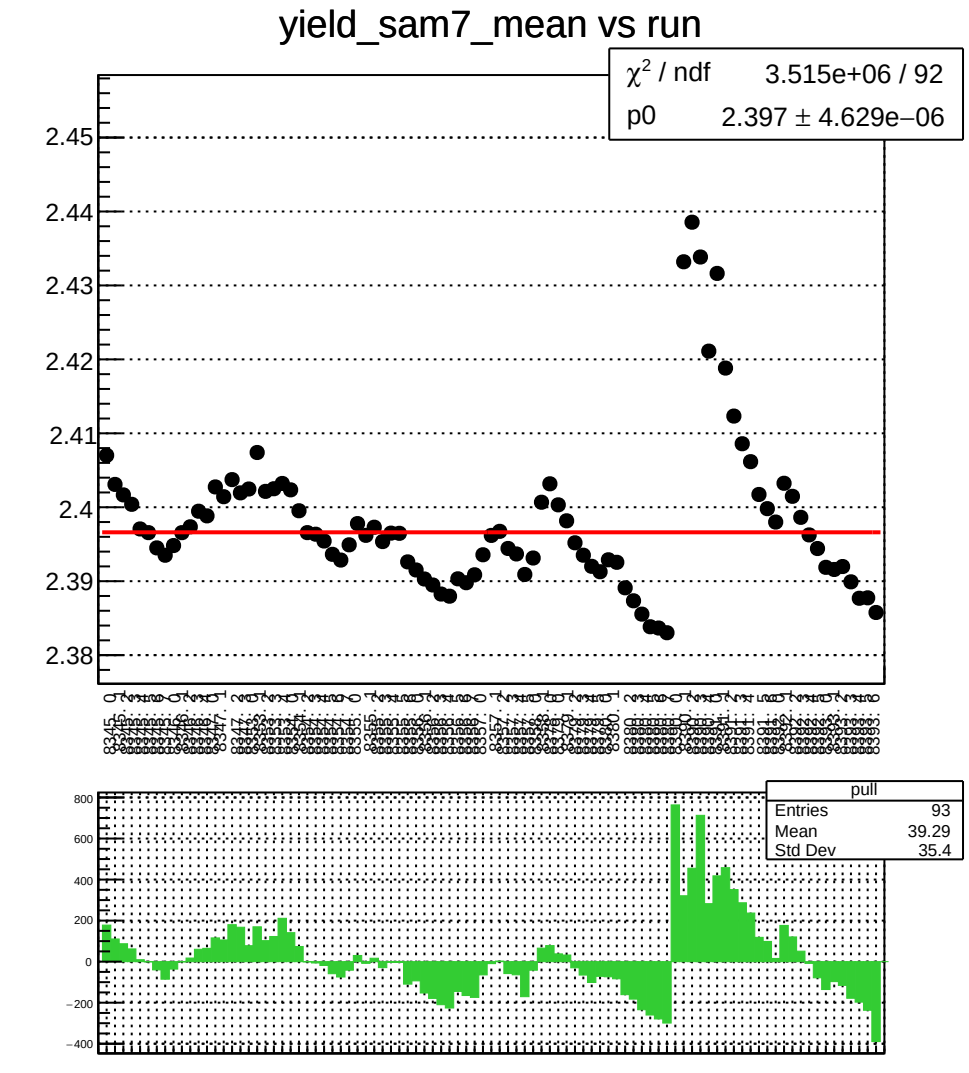

pull1D
Entries 93
Mean −1.366
Std Dev 3.161
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

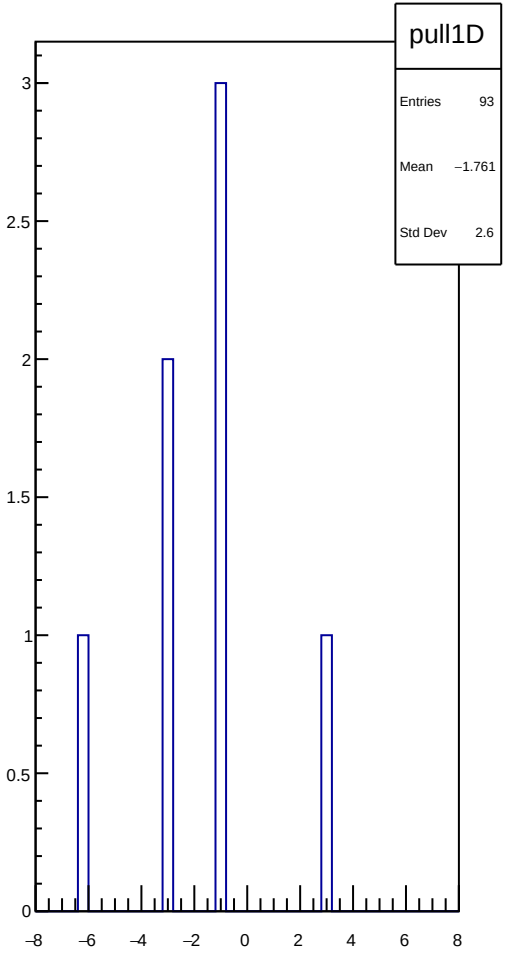

yield_sam5_rms vs run
χ² / ndf 2.305e+05 / 92
p0 0.03494 ± 2.772e−05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

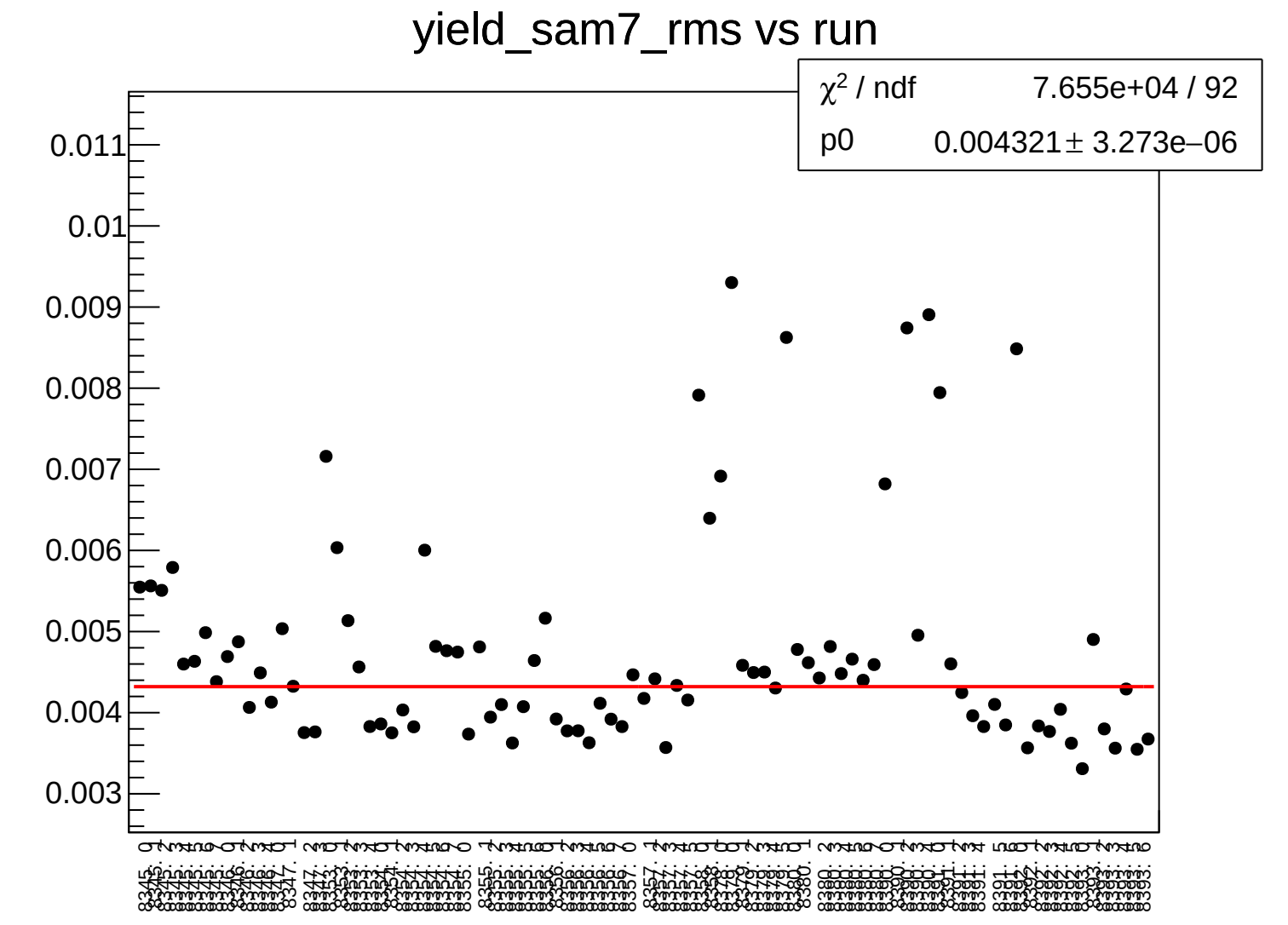

yield_sam6_mean vs run
χ² / ndf 6.378e+05 / 92
p0 9.352 ± 2.936e−05
9.46
9.44
9.42
9.4
9.38
9.36
9.34
9.32
9.3
9.28
pull
Entries 93
Mean −2396
Std Dev 0
250
200
150
100
50
0
−50
−100
−150

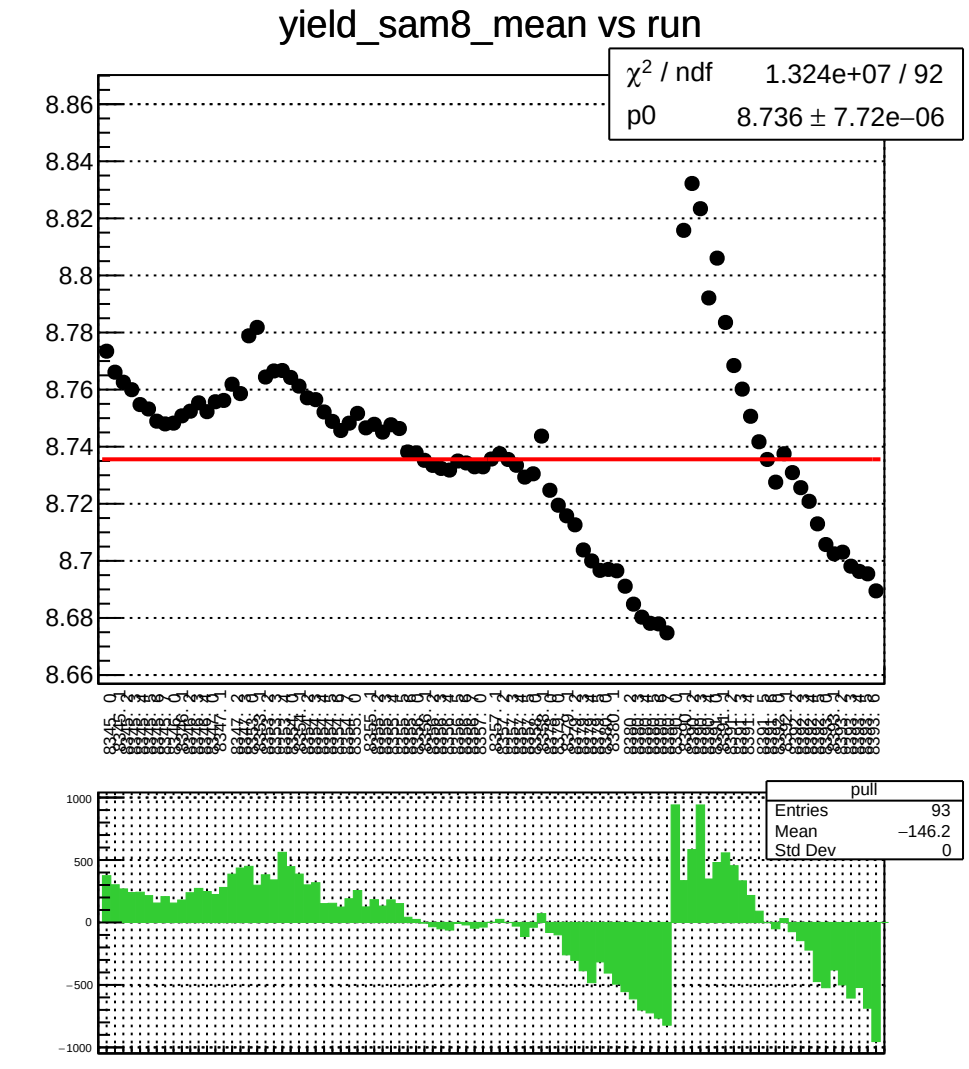

pull1D
Entries 93
Mean 0.1218
Std Dev 4.057
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

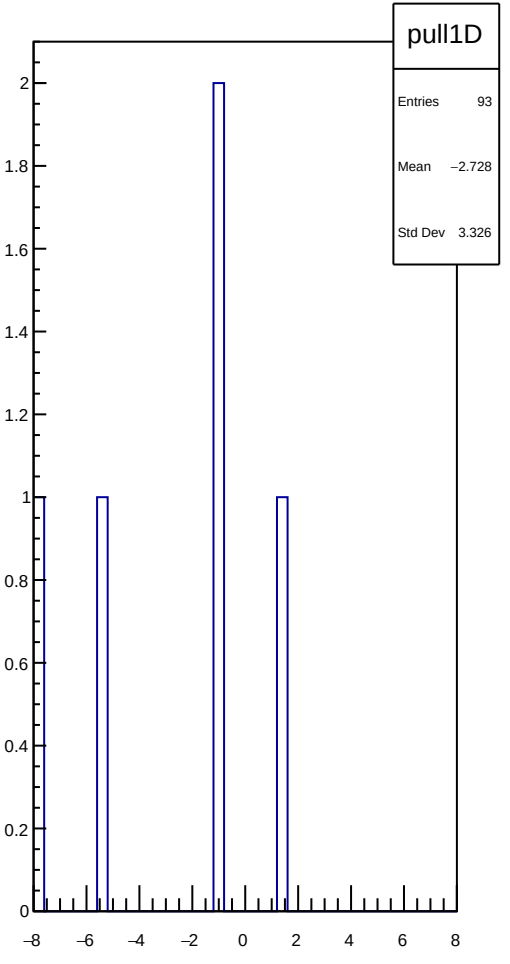

yield_sam6_rms vs run
χ² / ndf 7.972e+04 / 92
p0 0.02738 ± 2.076e−05
0.07
0.06
0.05
0.04
0.03
0.02

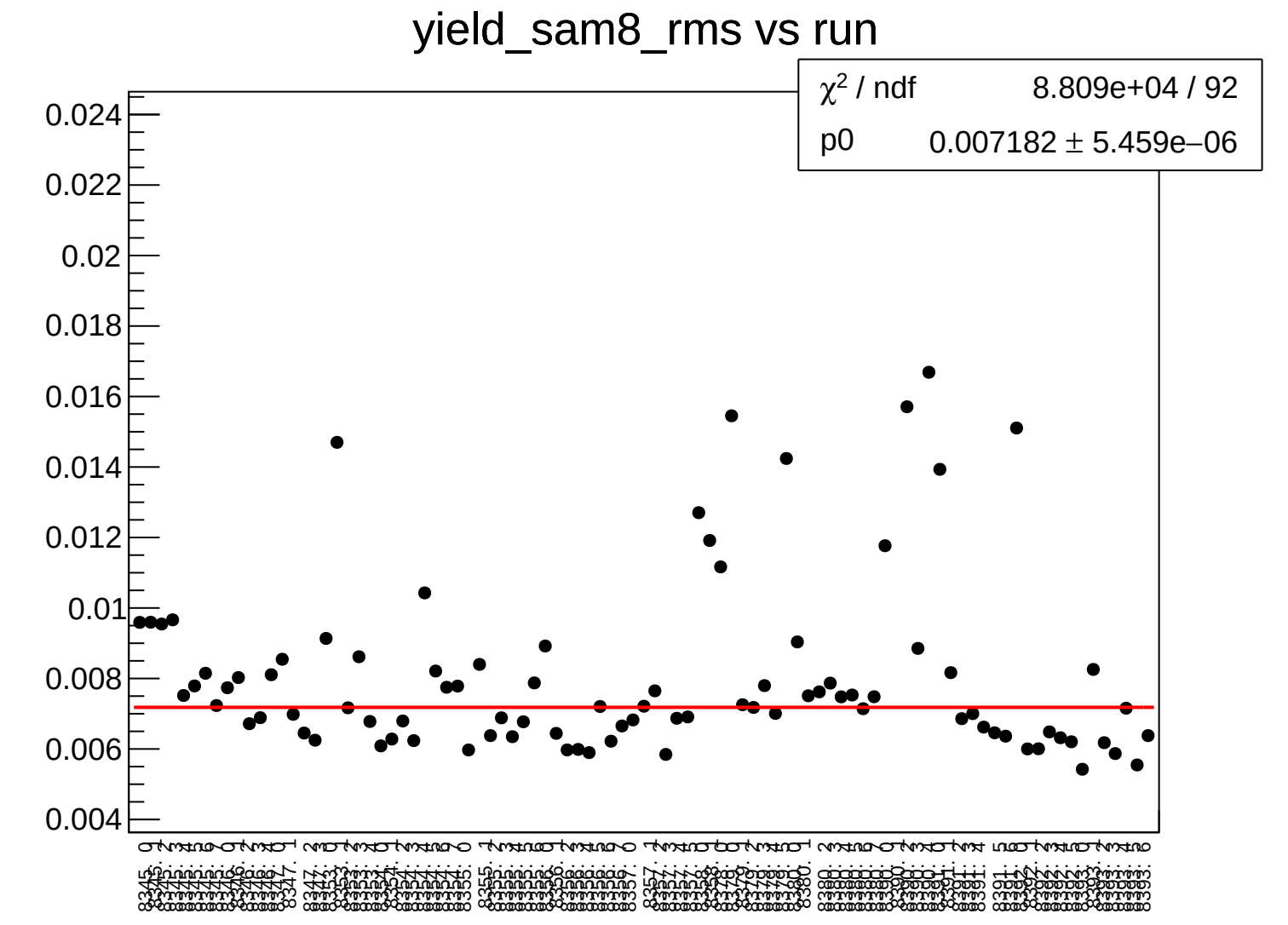

yield_sam7_mean vs run
χ² / ndf 3.515e+06 / 92
p0 2.397 ± 4.629e−06
2.45
2.44
2.43
2.42
2.41
2.4
2.39
2.38
pull
Entries 93
Mean 39.29
Std Dev 35.4
800
600
400
200
0
−200
−400

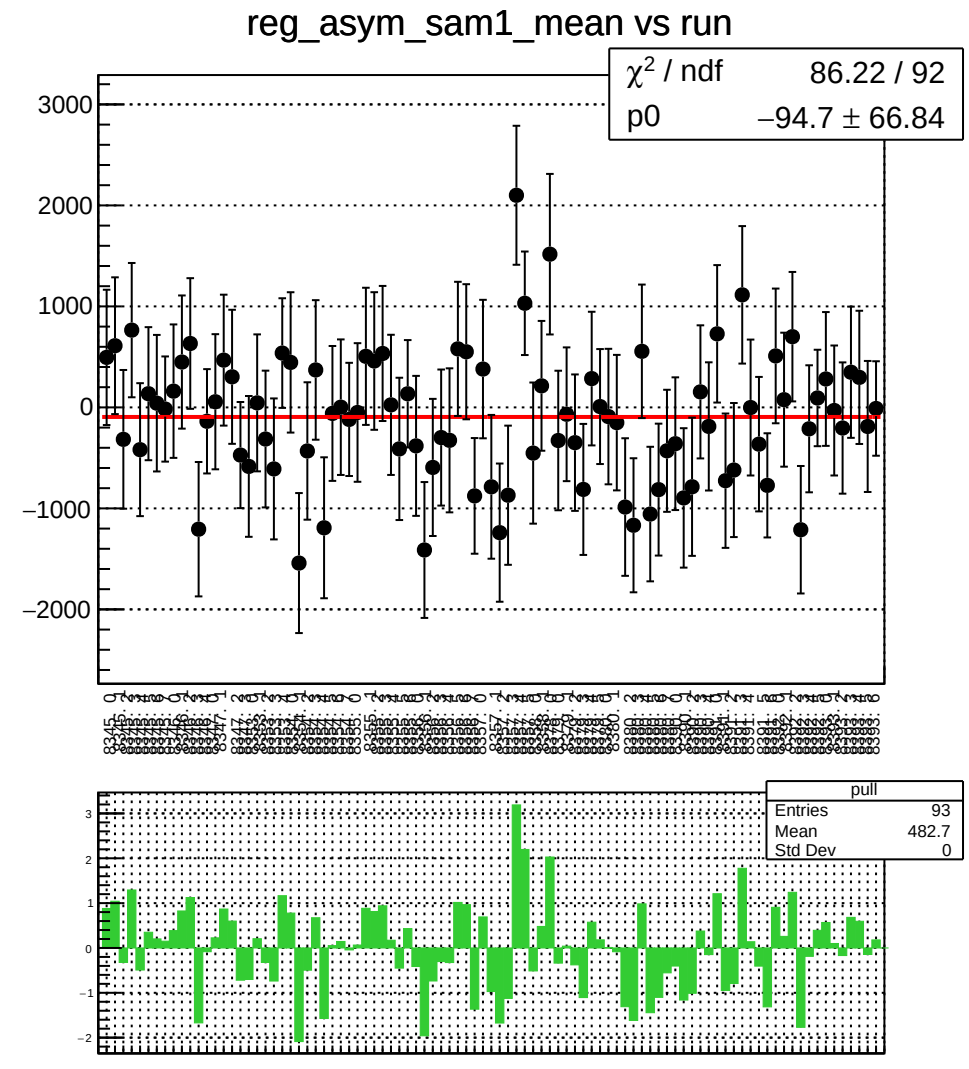

pull1D
Entries 93
Mean −1.761
Std Dev 2.6
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

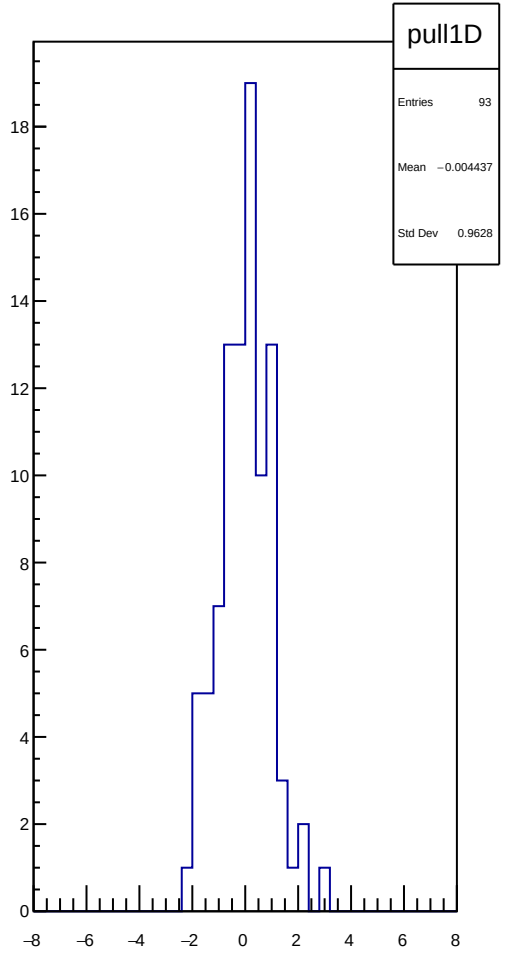

yield_sam7_rms vs run
χ^2 / ndf 7.655e+04 / 92
p0 0.004321 ± 3.273e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

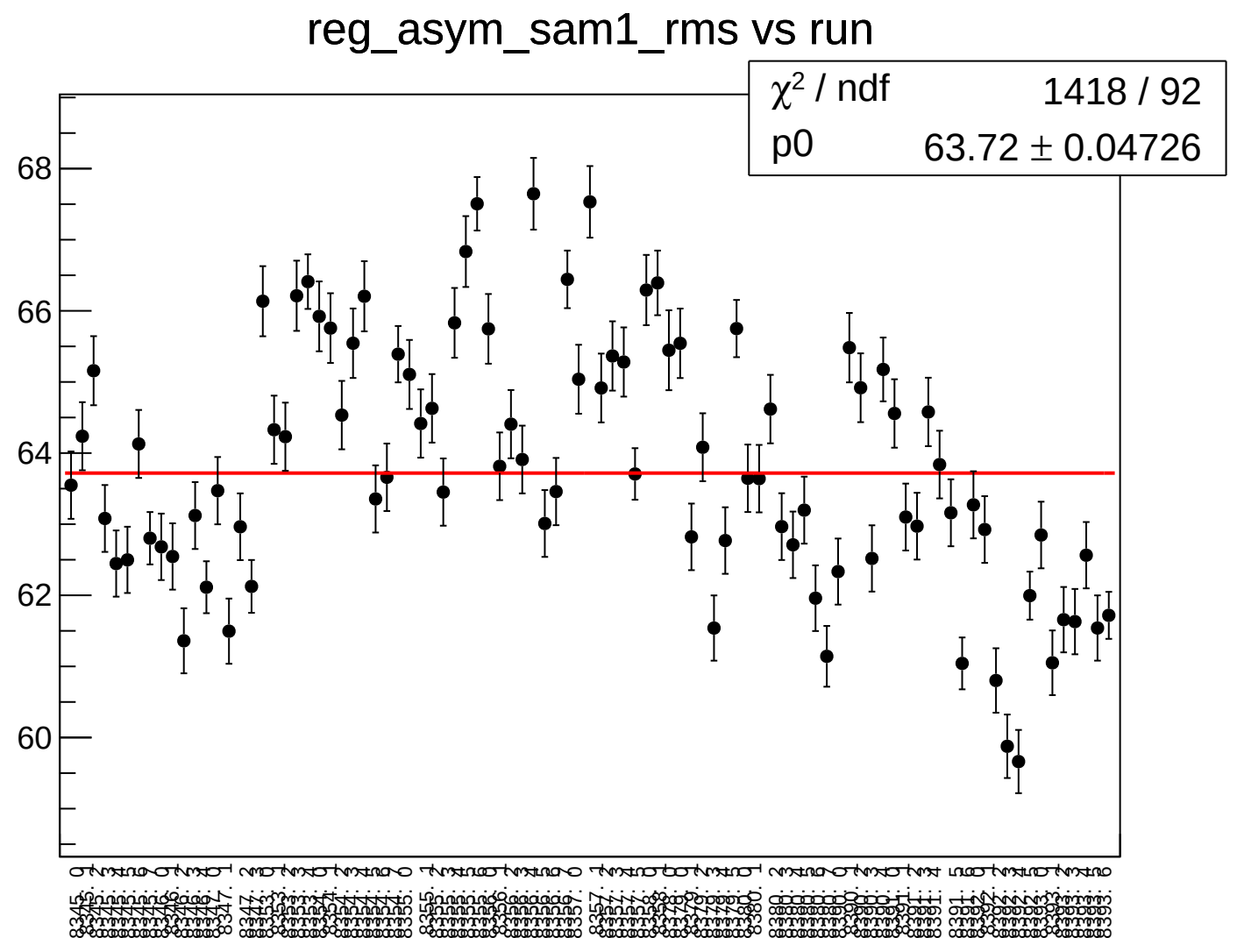

yield_sam8_mean vs run
χ² / ndf 1.324e+07 / 92
p0 8.736 ± 7.72e−06
8.86
8.84
8.82
8.8
8.78
8.76
8.74
8.72
8.7
8.68
8.66
pull
Entries 93
Mean −146.2
Std Dev 0
1000
500
0
−500
−1000

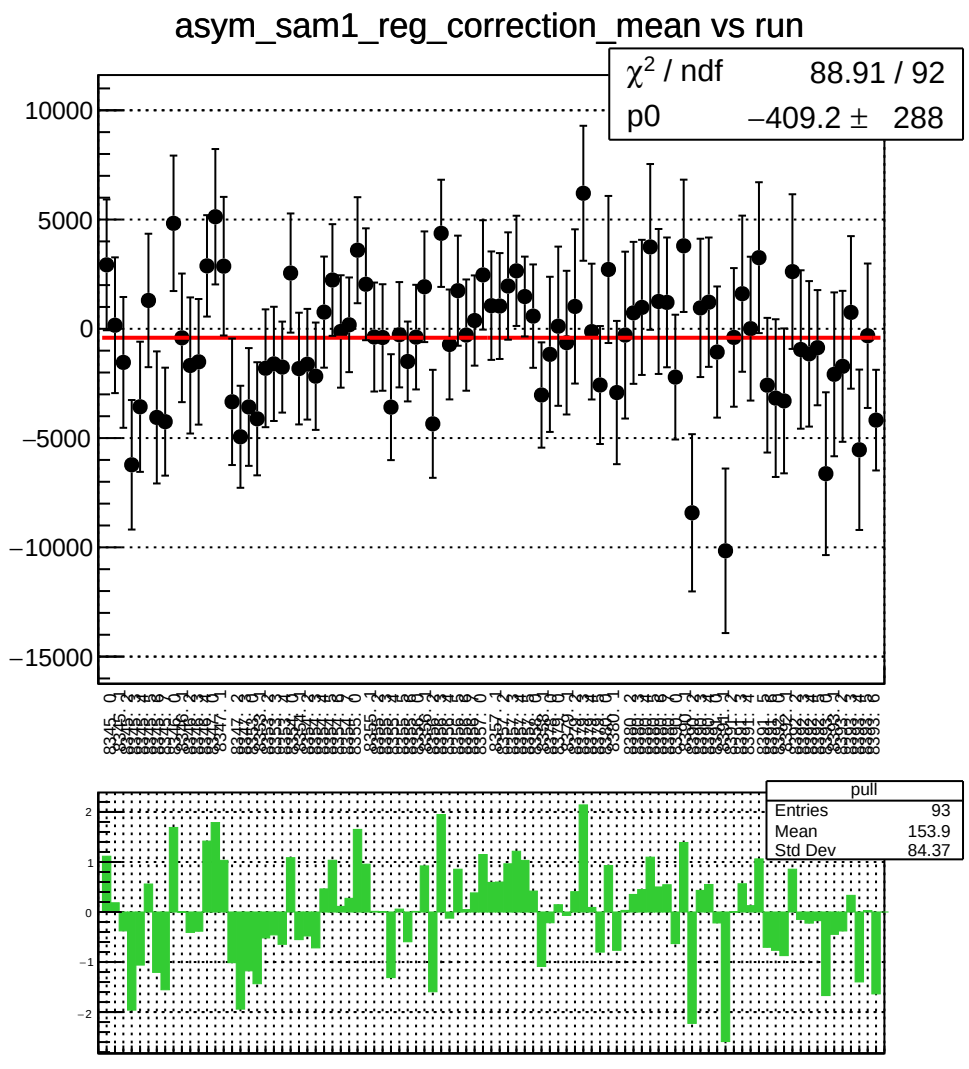

pull1D
Entries 93
Mean −2.728
Std Dev 3.326
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

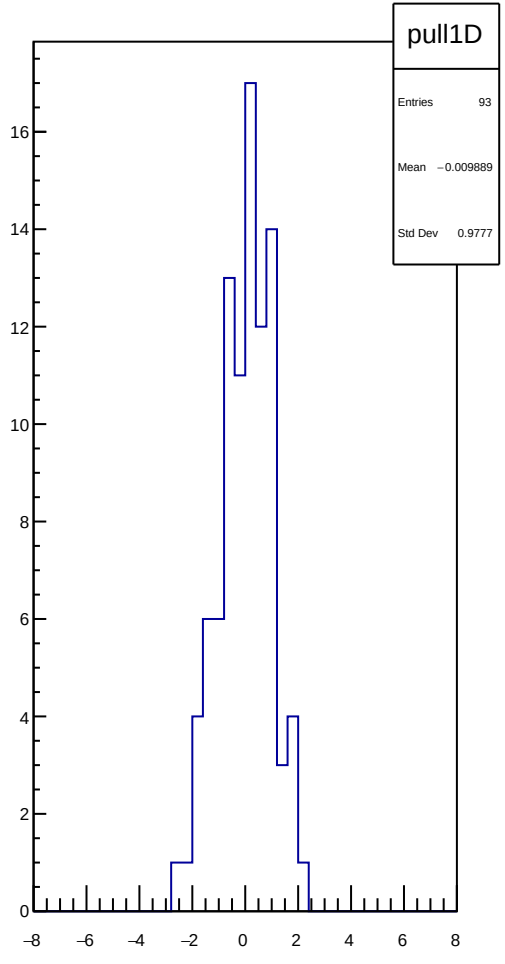

yield_sam8_rms vs run
χ² / ndf 8.809e+04 / 92
p0 0.007182 ± 5.459e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

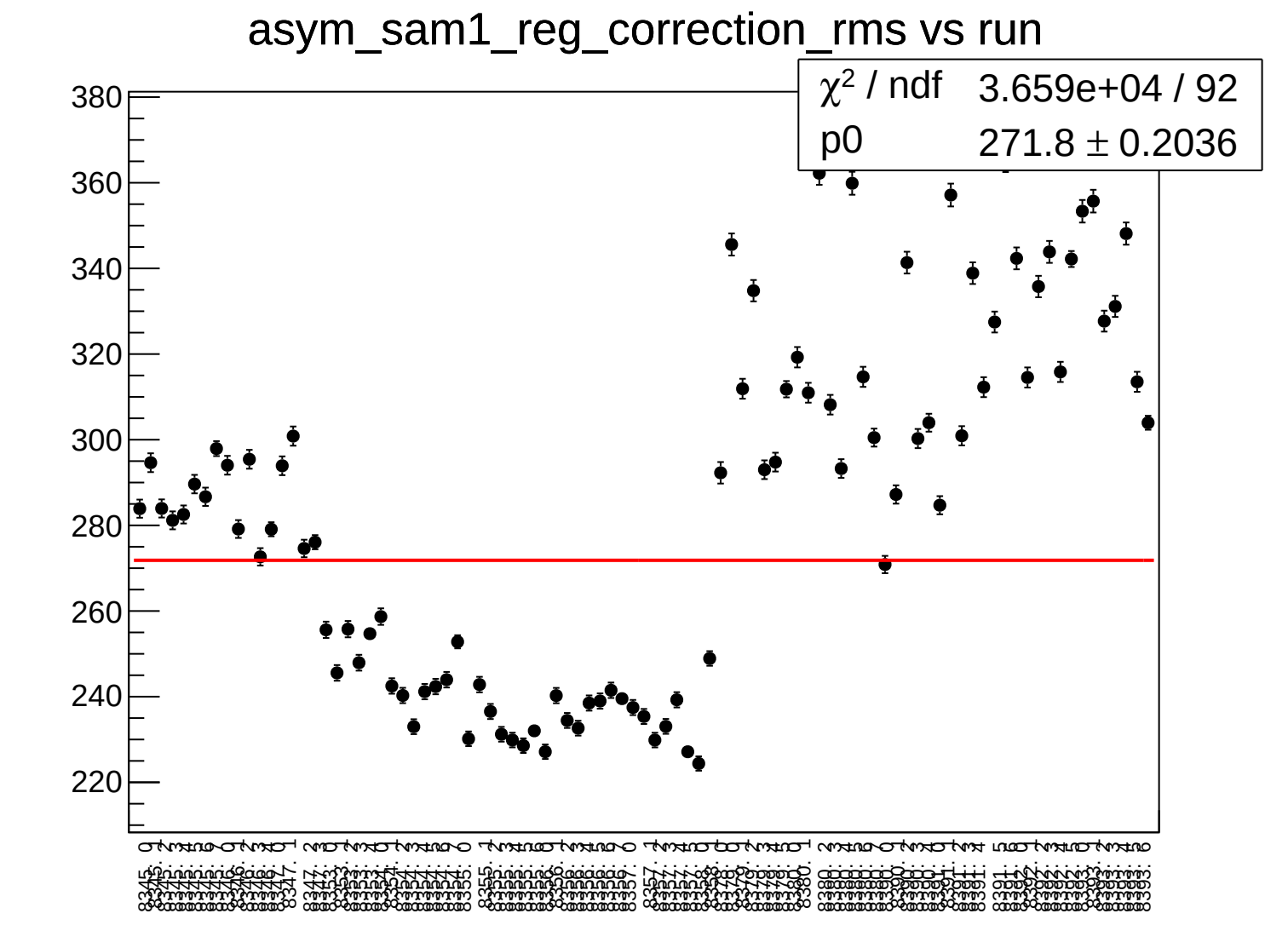

reg_asym_sam1_mean vs run
χ² / ndf 86.22 / 92
p0 −94.7 ± 66.84
3000
2000
1000
0
−1000
−2000
pull
Entries 93
Mean 482.7
Std Dev 0
3
2
1
0
−1
−2

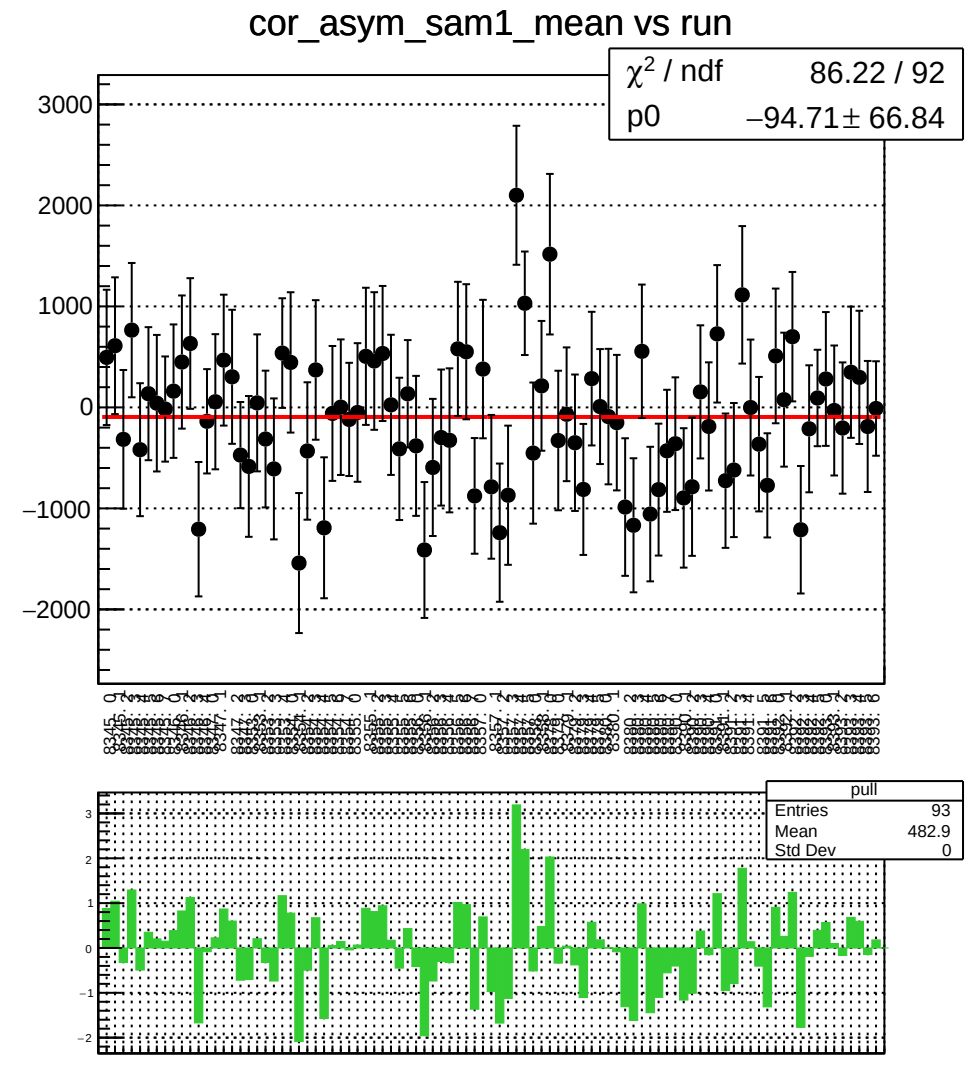

pull1D
Entries 93
Mean −0.004437
Std Dev 0.9628
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

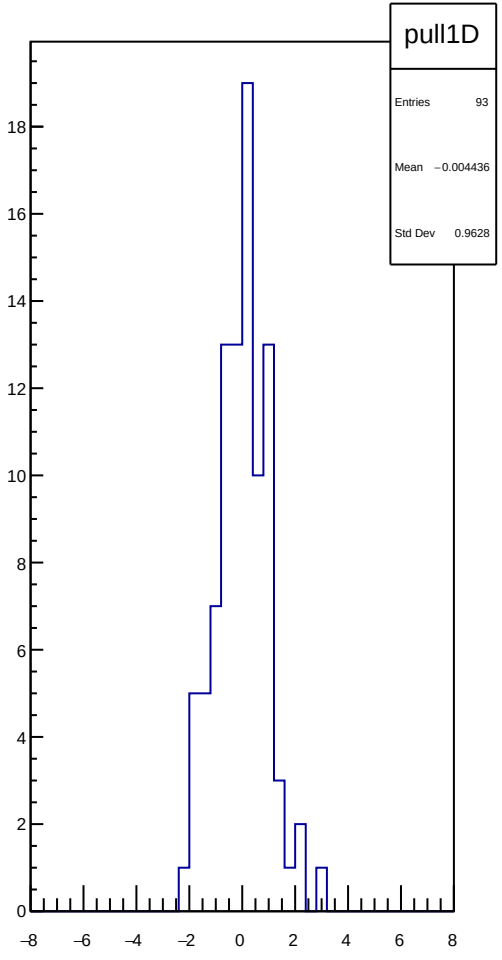

reg_asym_sam1_rms vs run
χ² / ndf 1418 / 92
p0 63.72 ± 0.04726
68
66
64
62
60

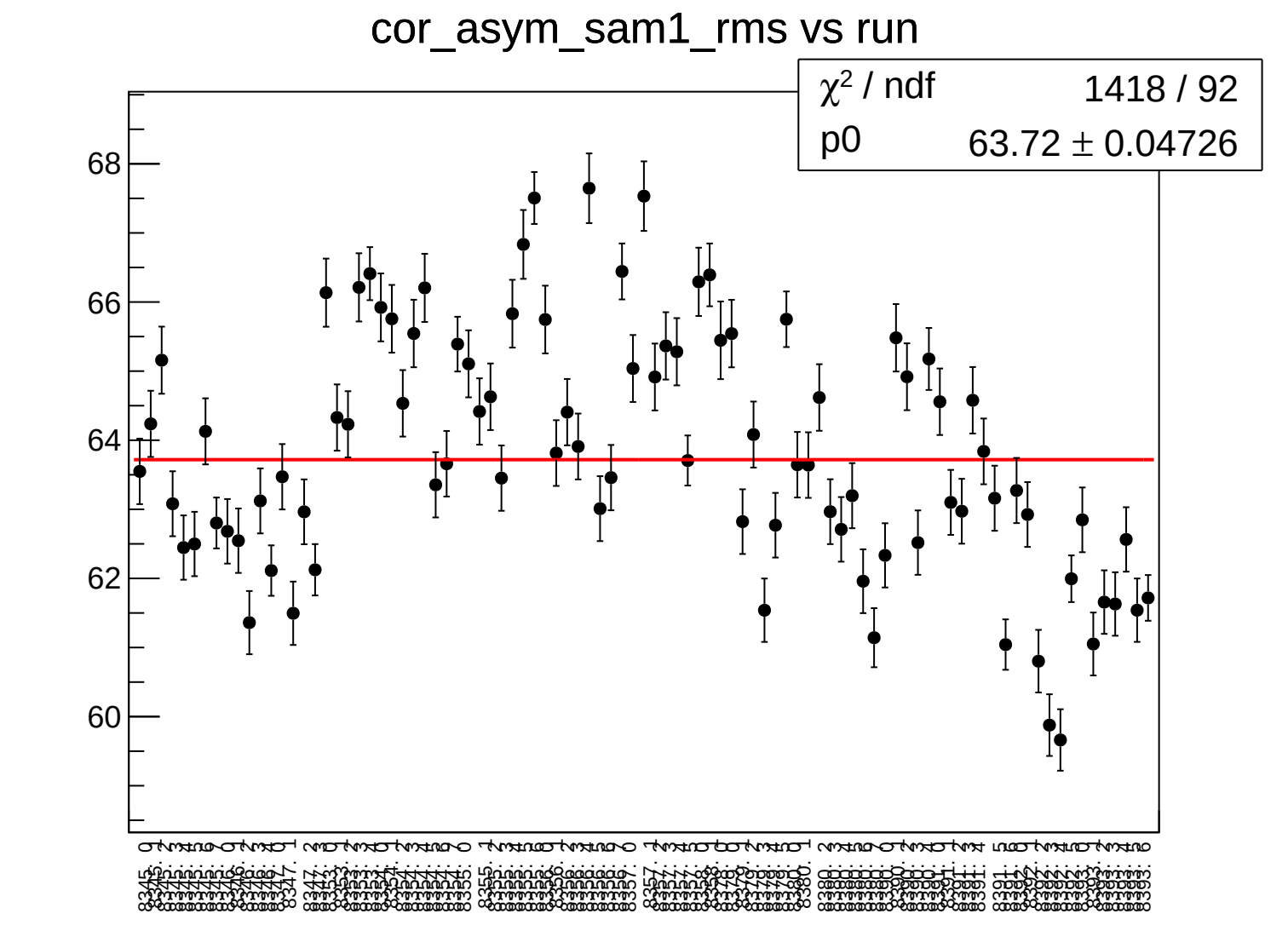

asym_sam1_reg_correction_mean vs run
χ² / ndf 88.91 / 92
p0 −409.2 ± 288
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean 153.9
Std Dev 84.37
2
1
0
−1
−2

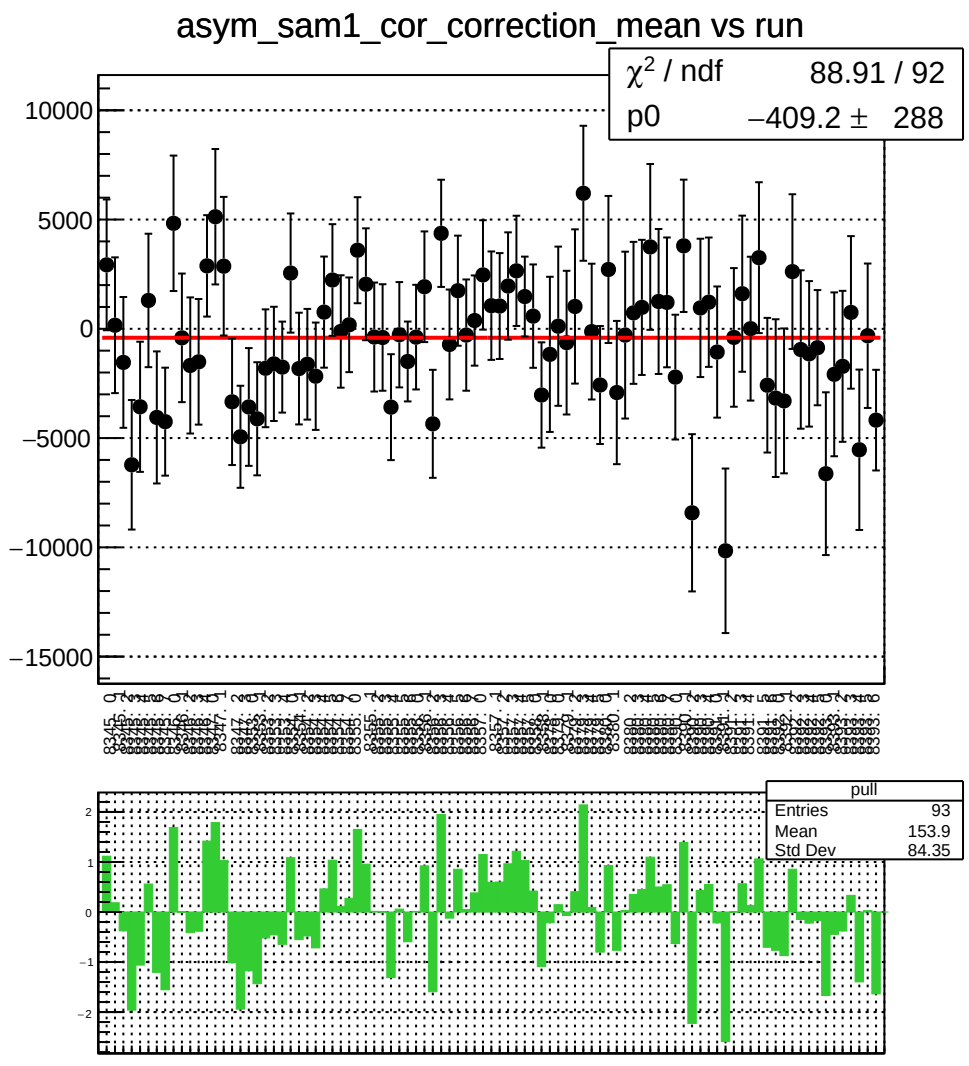

pull1D
Entries 93
Mean −0.009889
Std Dev 0.9777
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

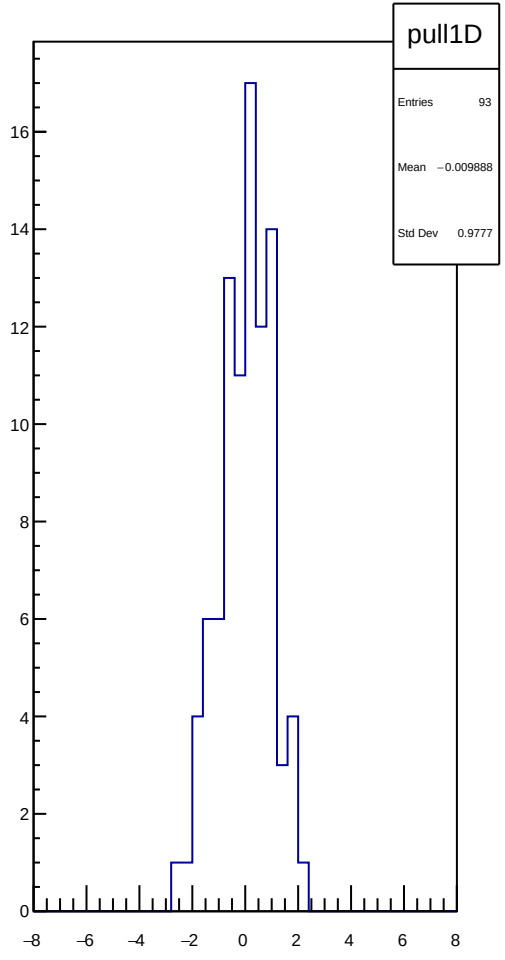

asym_sam1_reg_correction_rms vs run
χ² / ndf 3.659e+04 / 92
p0 271.8 ± 0.2036
380
360
340
320
300
280
260
240
220

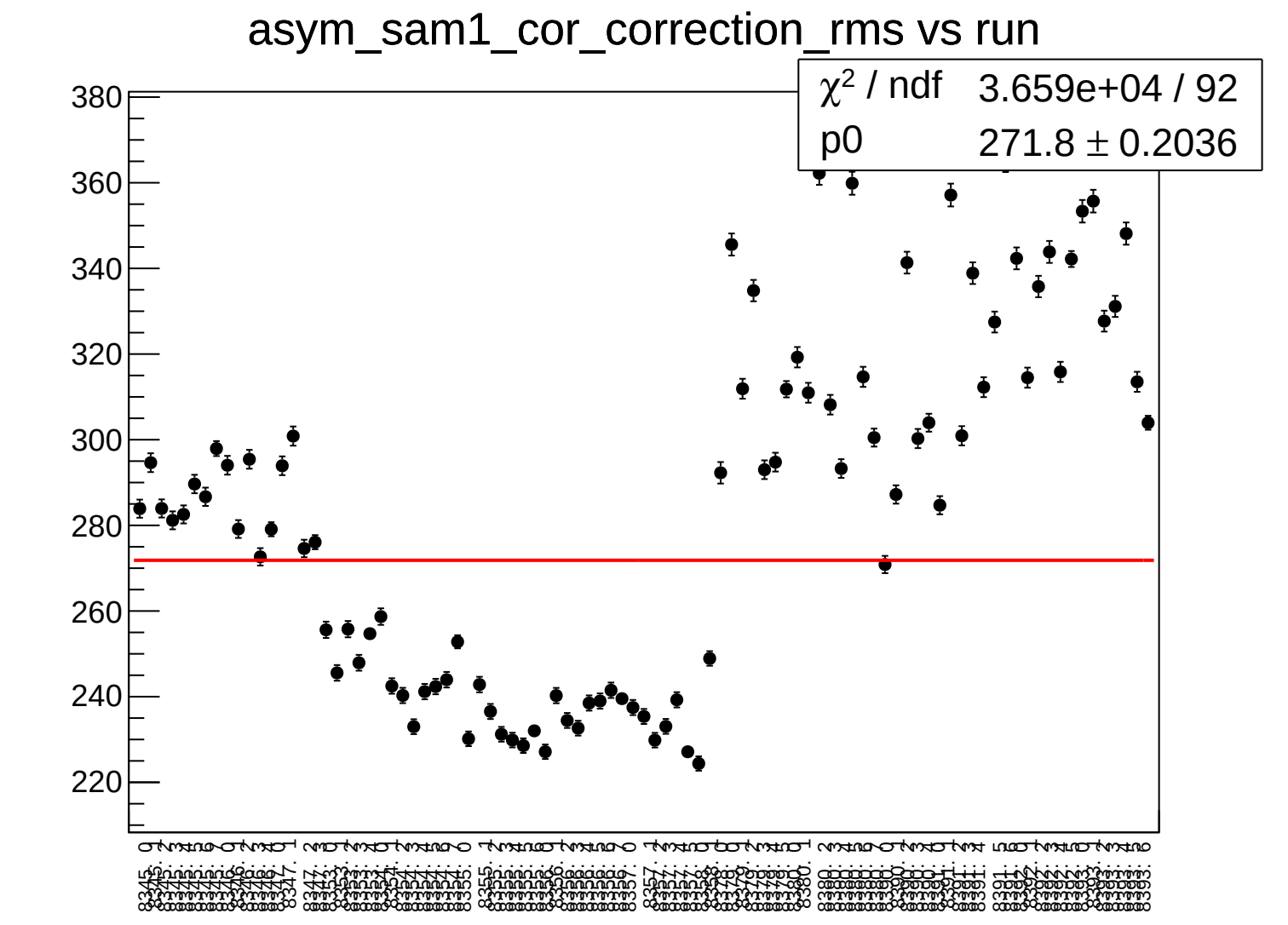

cor_asym_sam1_mean vs run
χ² / ndf 86.22 / 92
p0 −94.71 ± 66.84
3000
2000
1000
0
−1000
−2000
pull
Entries 93
Mean 482.9
Std Dev 0
3
2
1
0
−1
−2

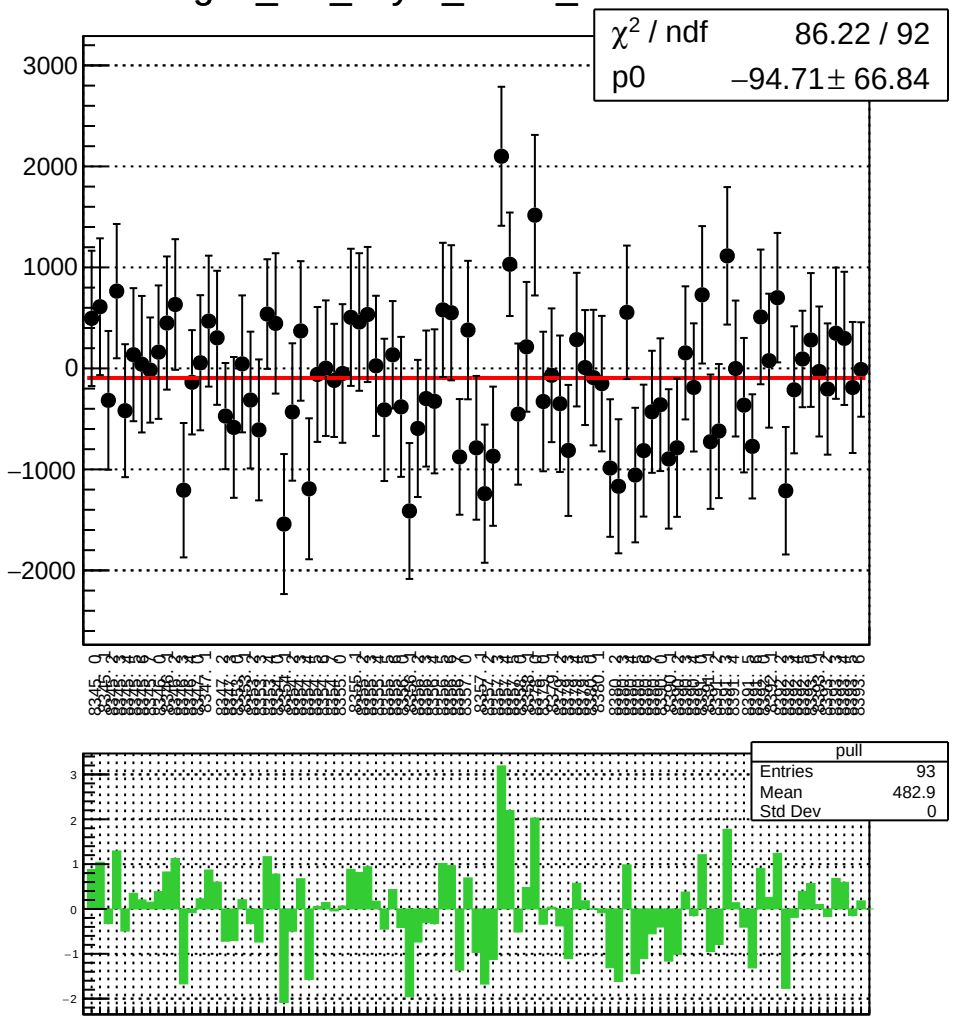

pull1D
Entries 93
Mean −0.004436
Std Dev 0.9628
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

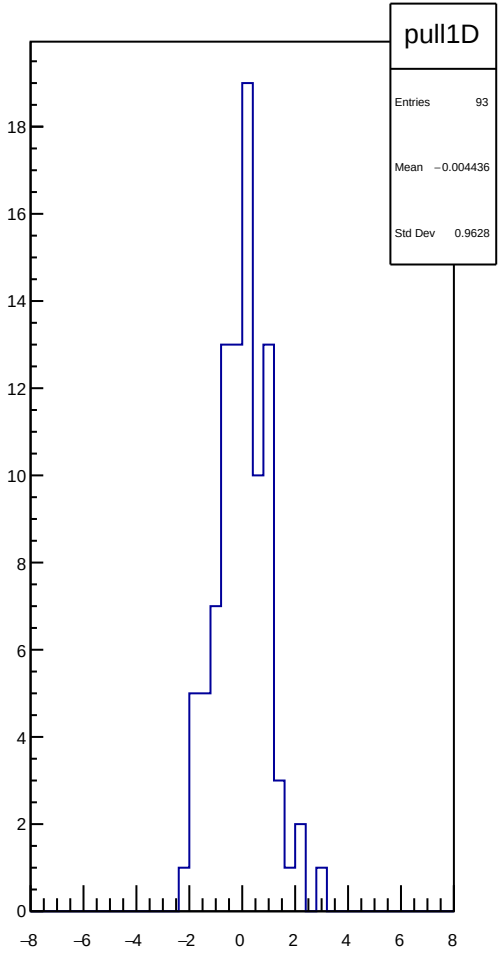

cor_asym_sam1_rms vs run
χ² / ndf 1418 / 92
p0 63.72 ± 0.04726
68
66
64
62
60

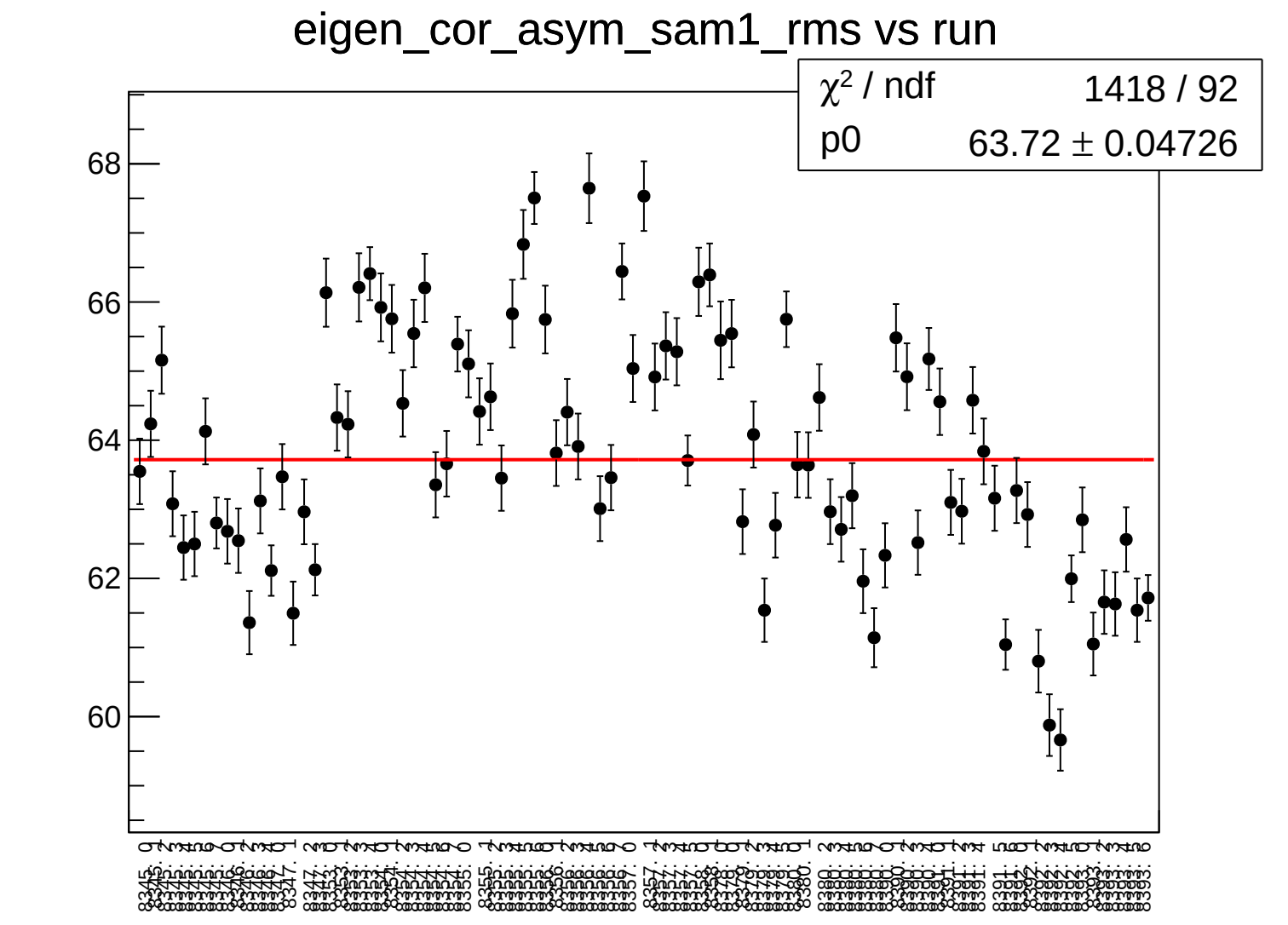

asym_sam1_cor_correction_mean vs run
χ² / ndf 88.91 / 92
p0 −409.2 ± 288
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean 153.9
Std Dev 84.35
2
1
0
−1
−2

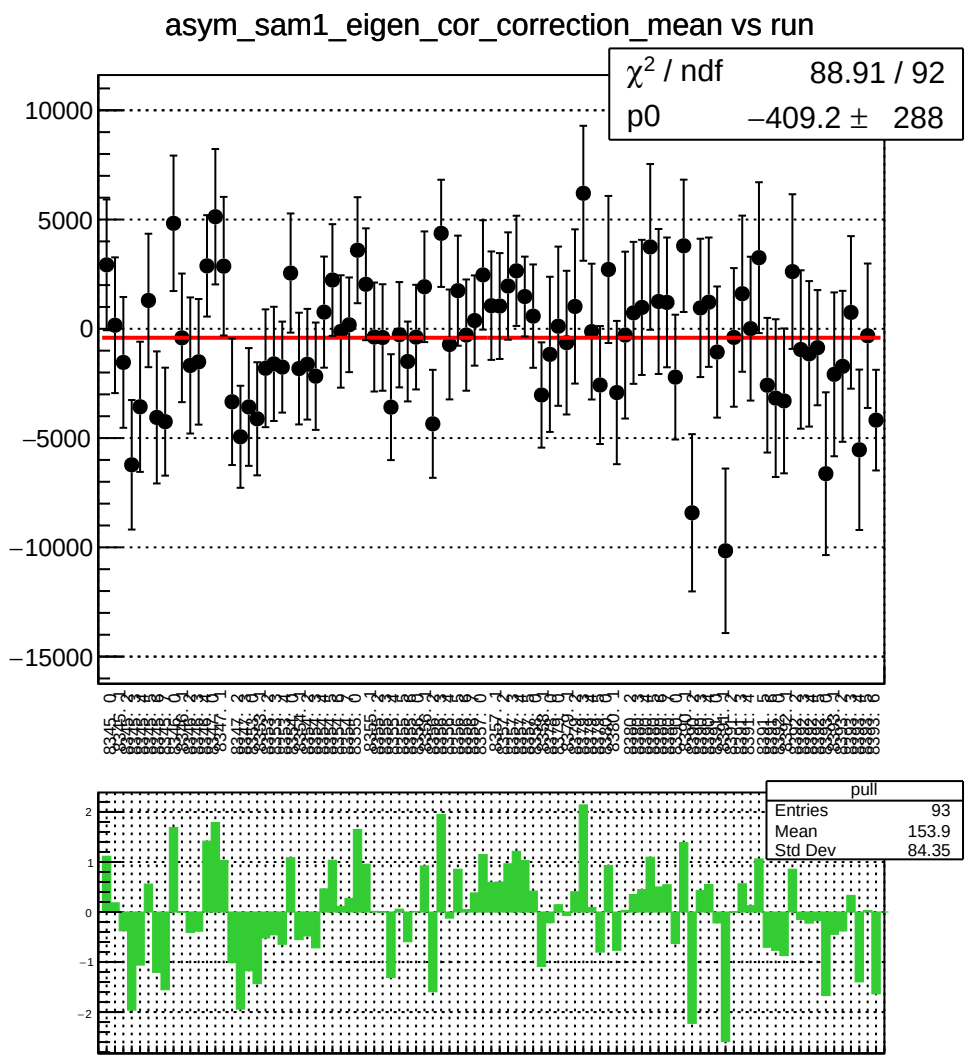

pull1D
Entries 93
Mean −0.009888
Std Dev 0.9777
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

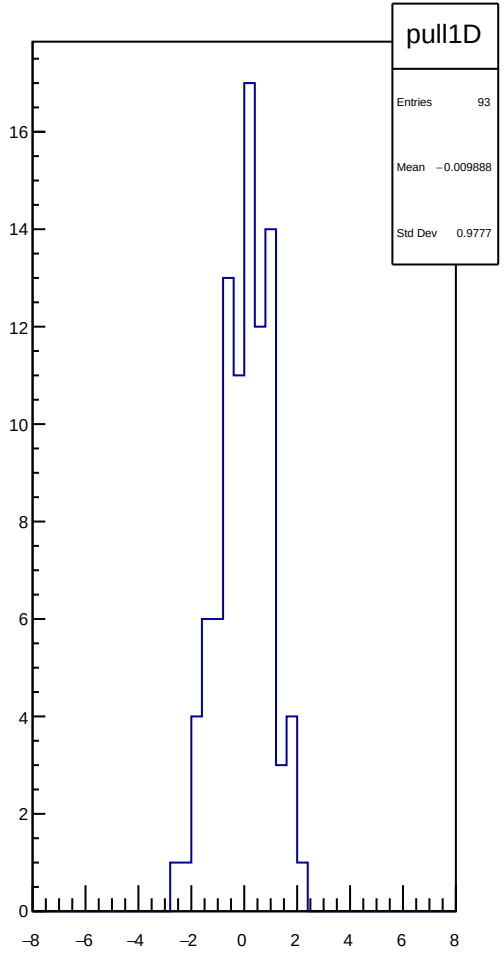

asym_sam1_cor_correction_rms vs run
χ² / ndf 3.659e+04 / 92
p0 271.8 ± 0.2036
380
360
340
320
300
280
260
240
220

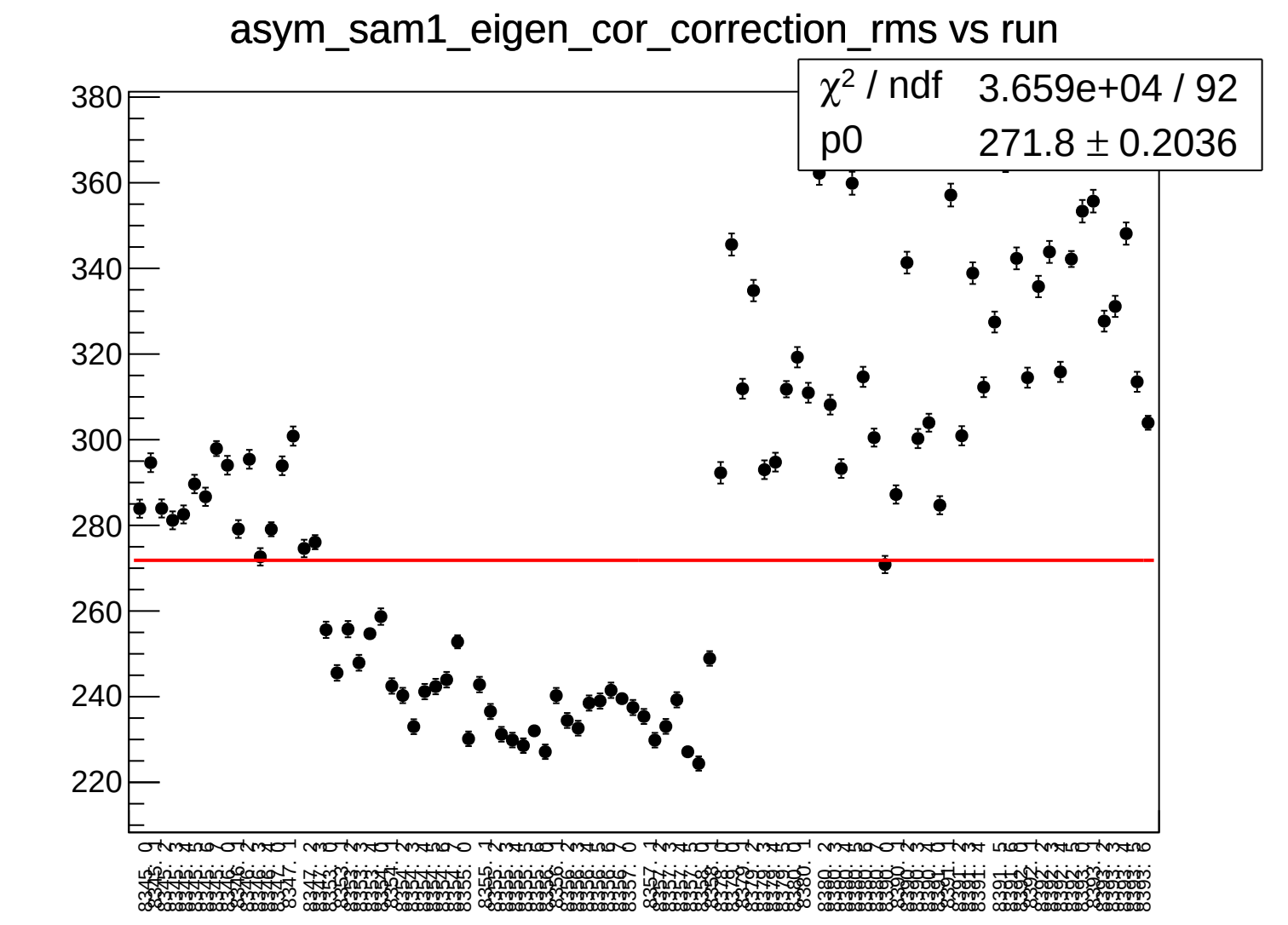

eigen_cor_asym_sam1_mean vs run
χ² / ndf 86.22 / 92
p0 −94.71 ± 66.84
pull
Entries 93
Mean 482.9
Std Dev 0

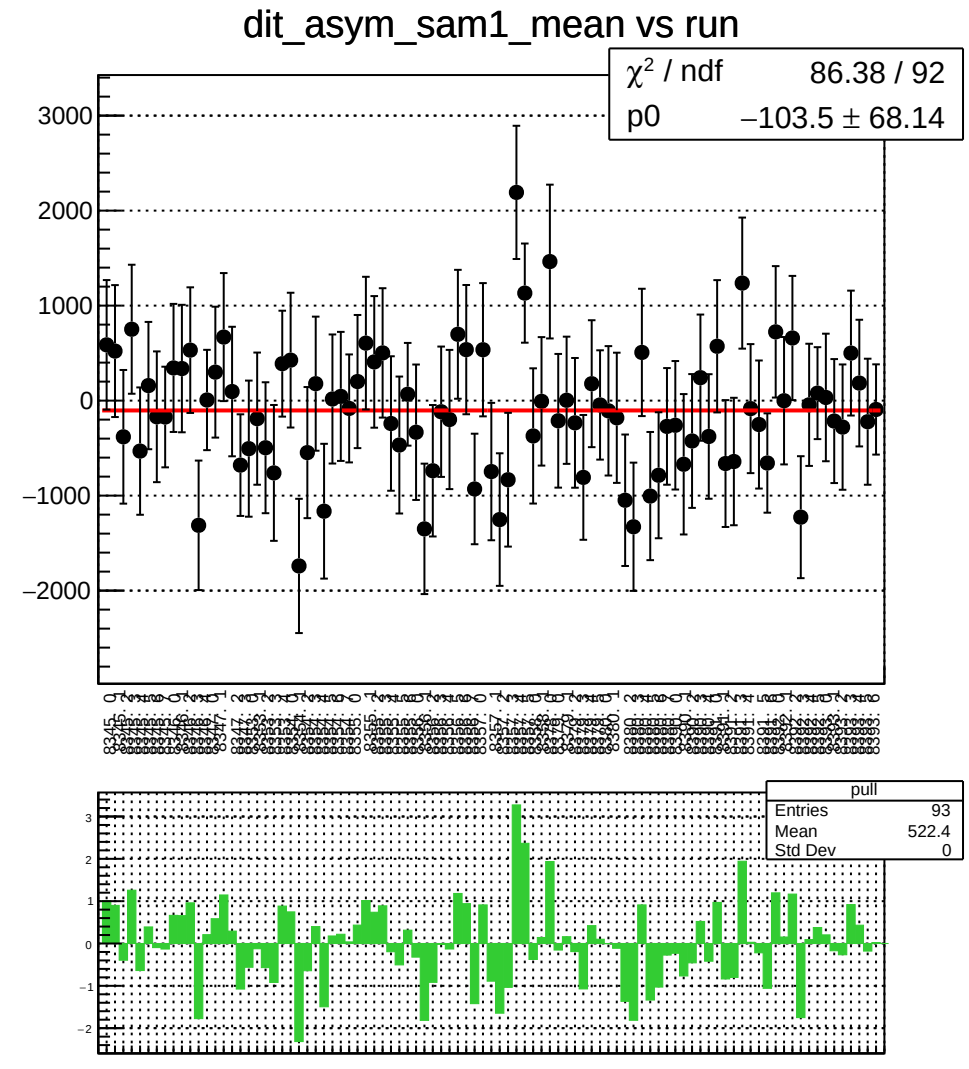

pull1D
Entries 93
Mean −0.004436
Std Dev 0.9628

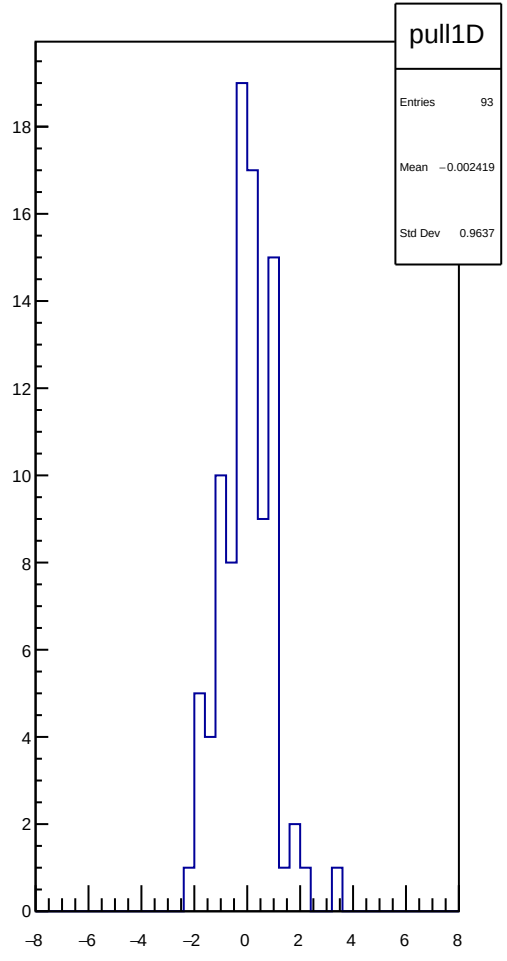

eigen_cor_asym_sam1_rms vs run
χ^2 / ndf 1418 / 92
p0 63.72 ± 0.04726
68
66
64
62
60

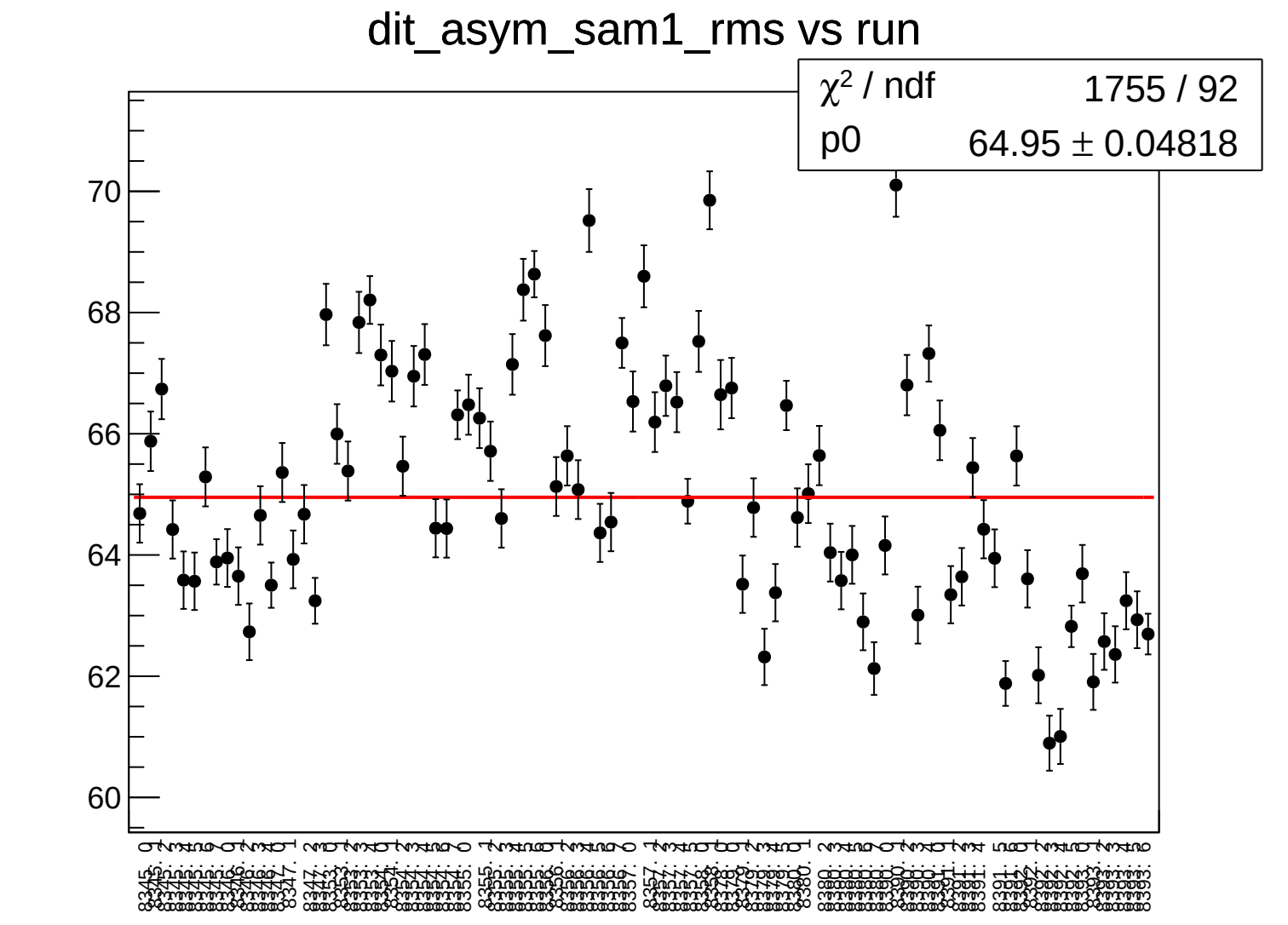

asym_sam1_eigen_cor_correction_mean vs run
χ² / ndf 88.91 / 92
p0 −409.2 ± 288
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean 153.9
Std Dev 84.35
2
1
0
−1
−2

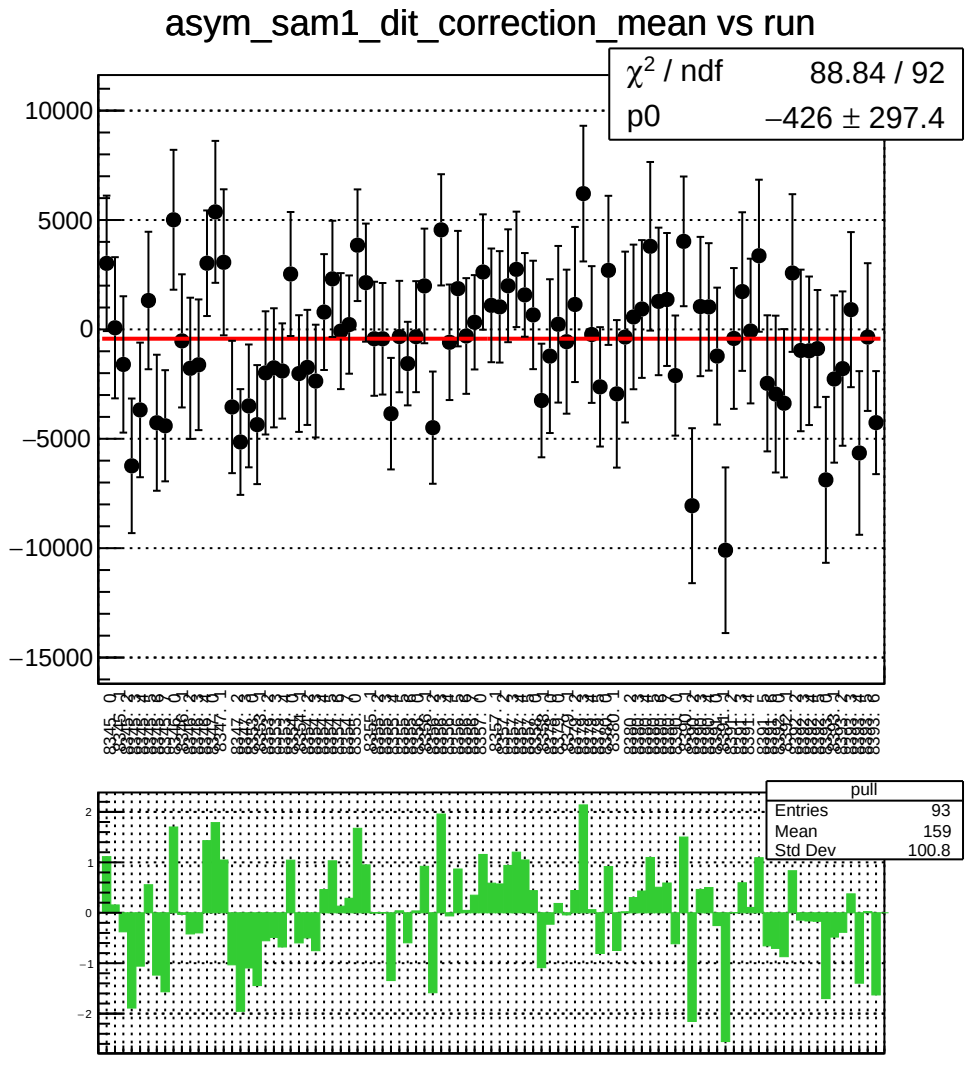

pull1D
Entries 93
Mean −0.009888
Std Dev 0.9777
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

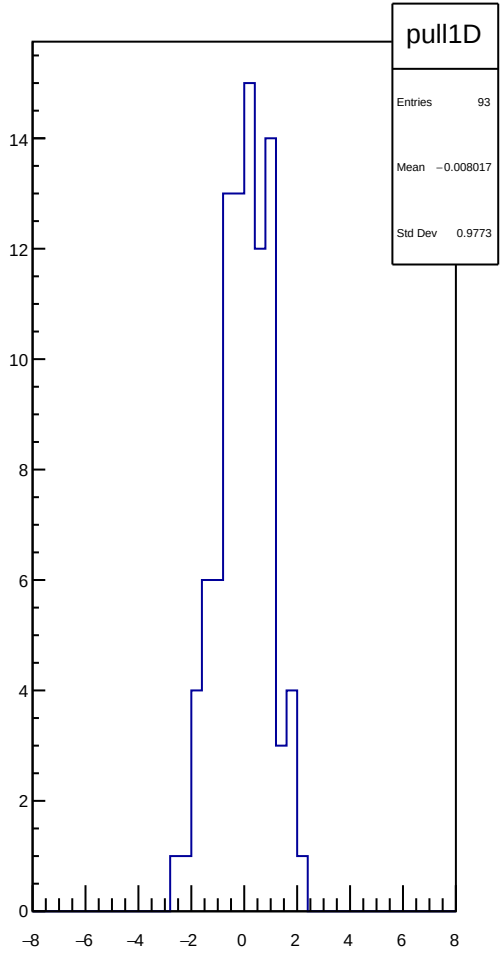

asym_sam1_eigen_cor_correction_rms vs run
χ² / ndf 3.659e+04 / 92
p0 271.8 ± 0.2036
380
360
340
320
300
280
260
240
220

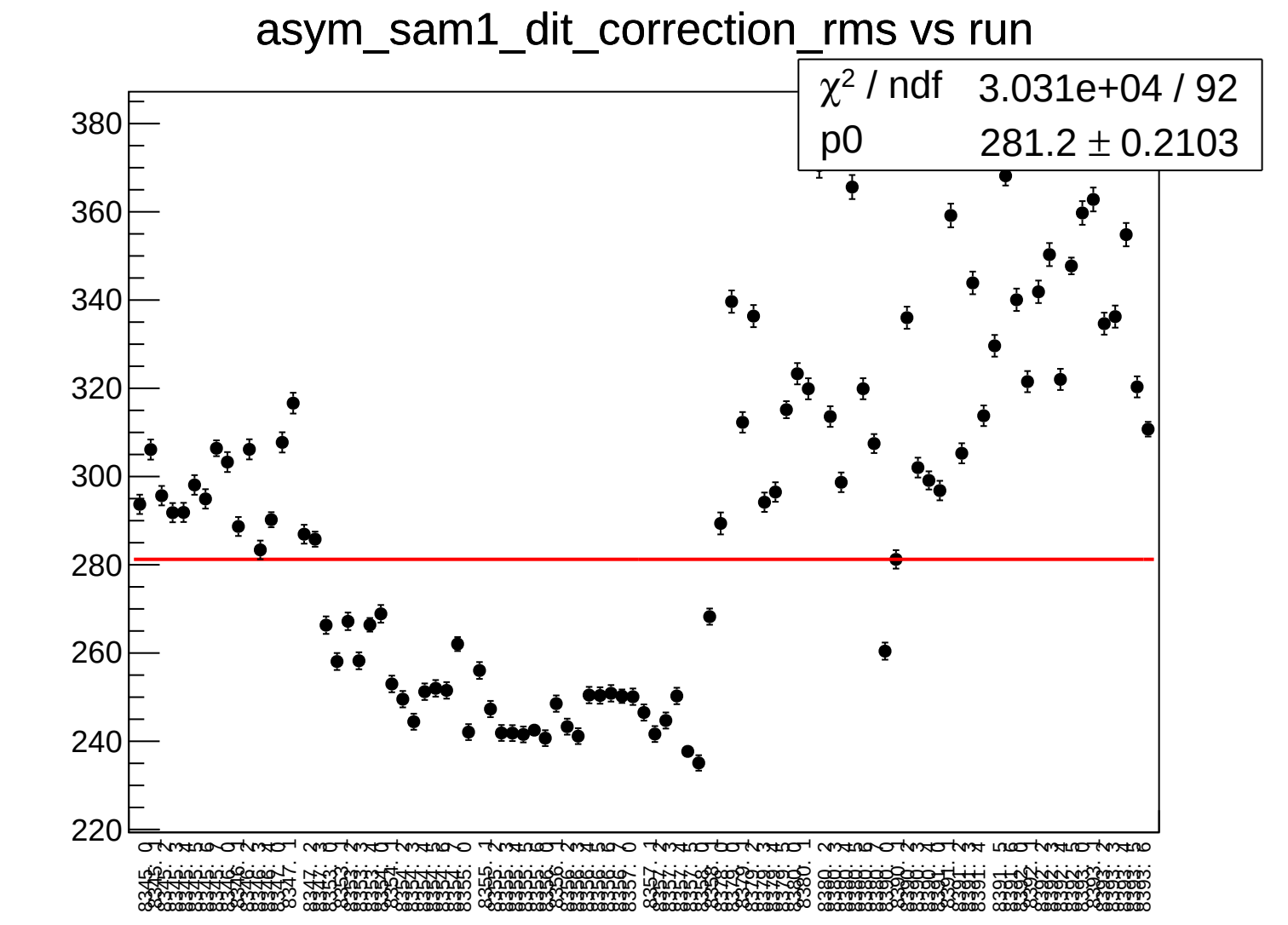

dit_asym_sam1_mean vs run
χ² / ndf 86.38 / 92
p0 −103.5 ± 68.14
3000
2000
1000
0
−1000
−2000
pull
Entries 93
Mean 522.4
Std Dev 0
3
2
1
0
−1
−2

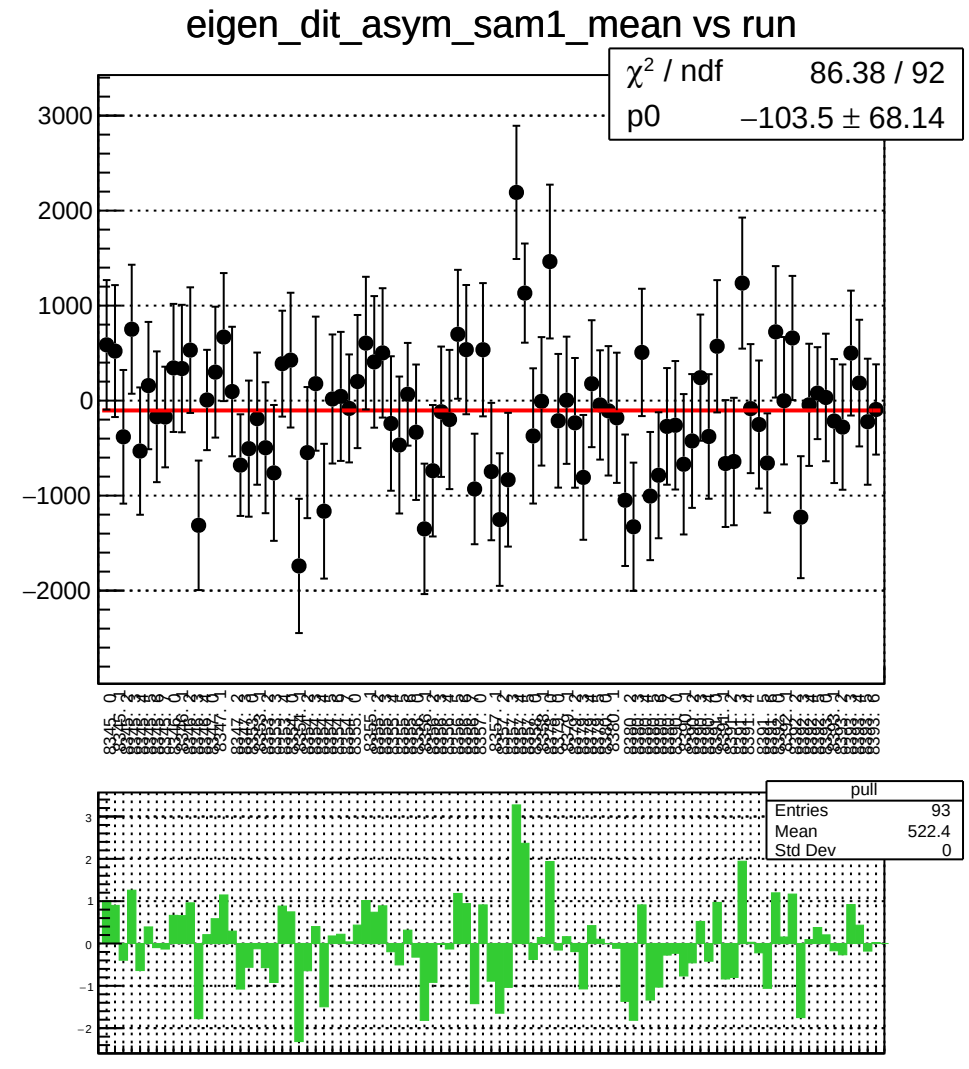

pull1D
Entries 93
Mean −0.002419
Std Dev 0.9637
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

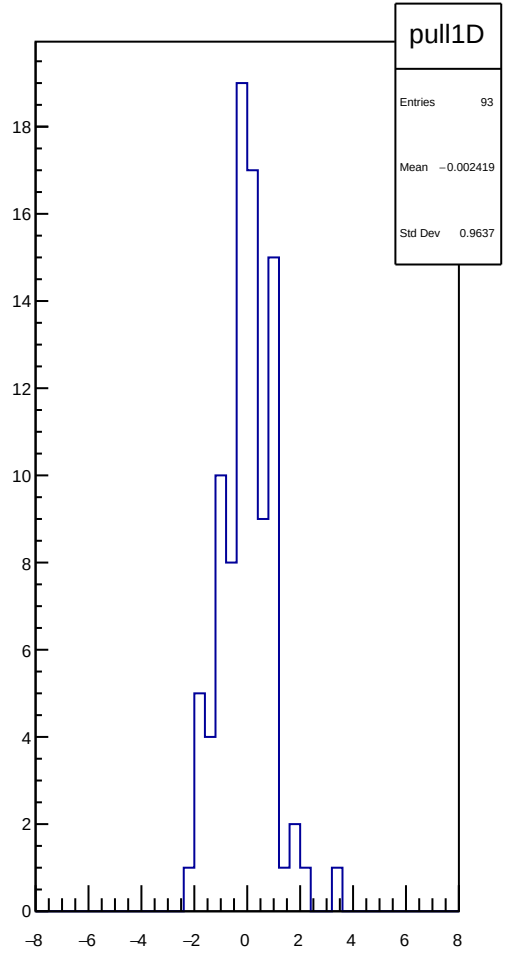

dit_asym_sam1_rms vs run
χ^2 / ndf 1755 / 92
p0 64.95 ± 0.04818
70
68
66
64
62
60

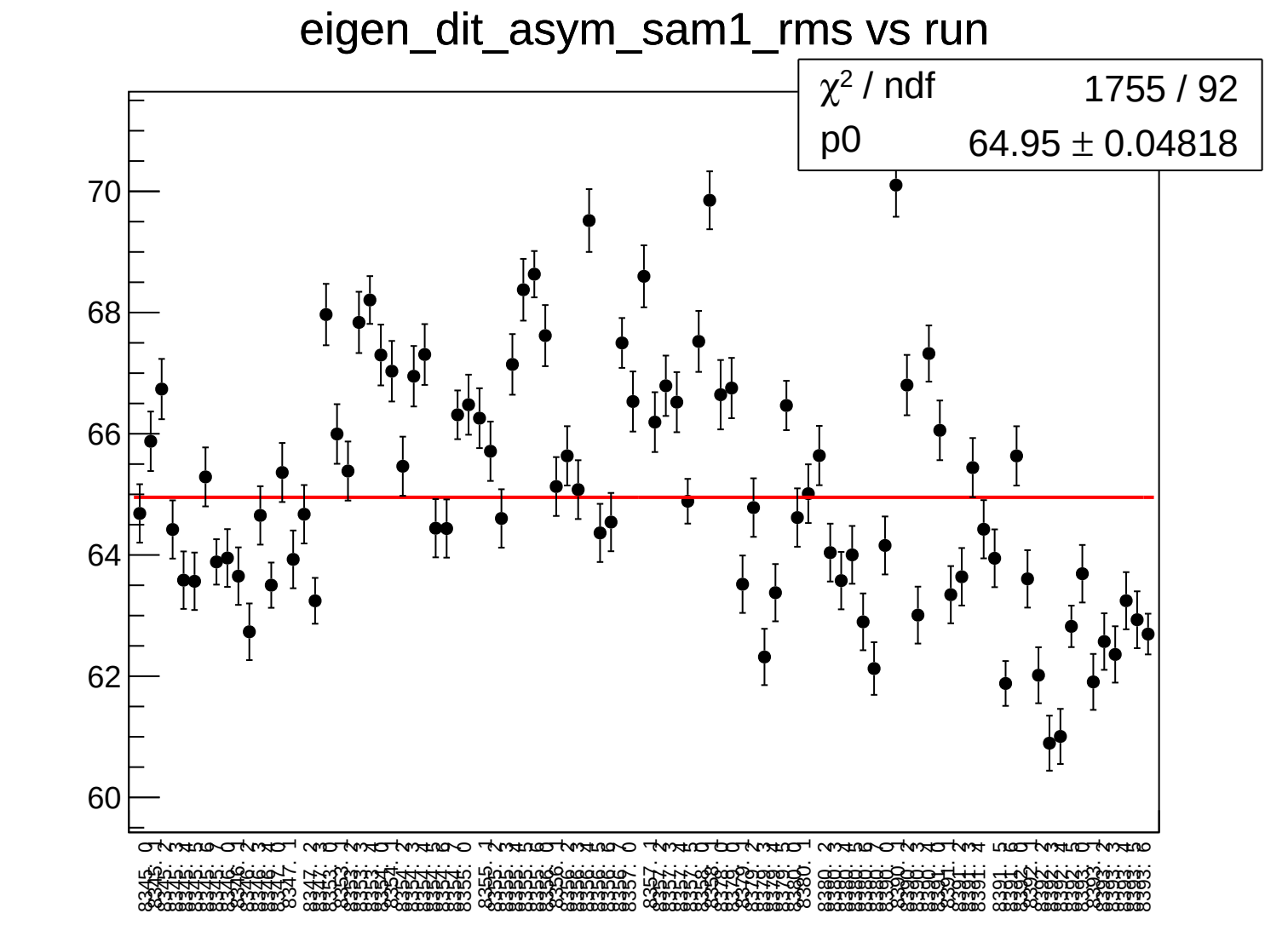

asym_sam1_dit_correction_mean vs run
χ² / ndf 88.84 / 92
p0 −426 ± 297.4
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean 159
Std Dev 100.8
2
1
0
−1
−2

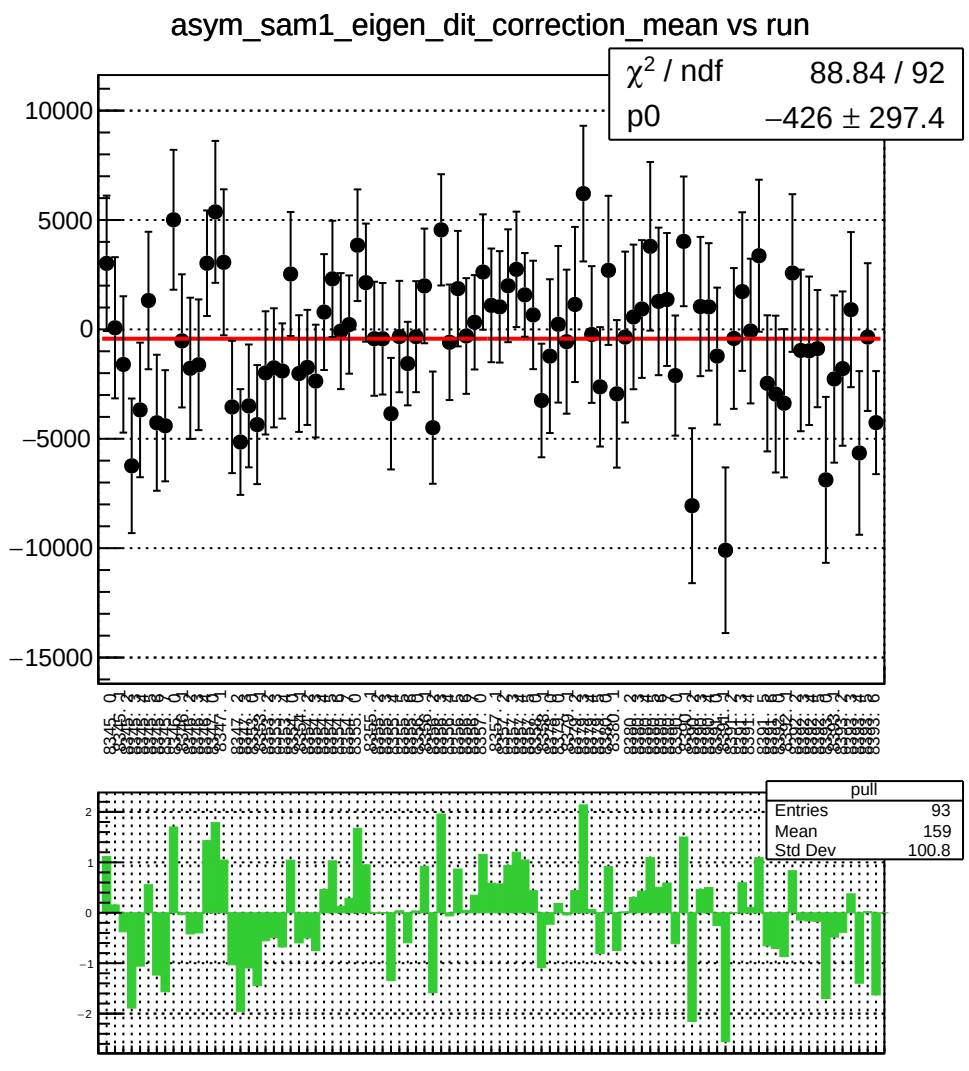

pull1D
Entries 93
Mean −0.008017
Std Dev 0.9773
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

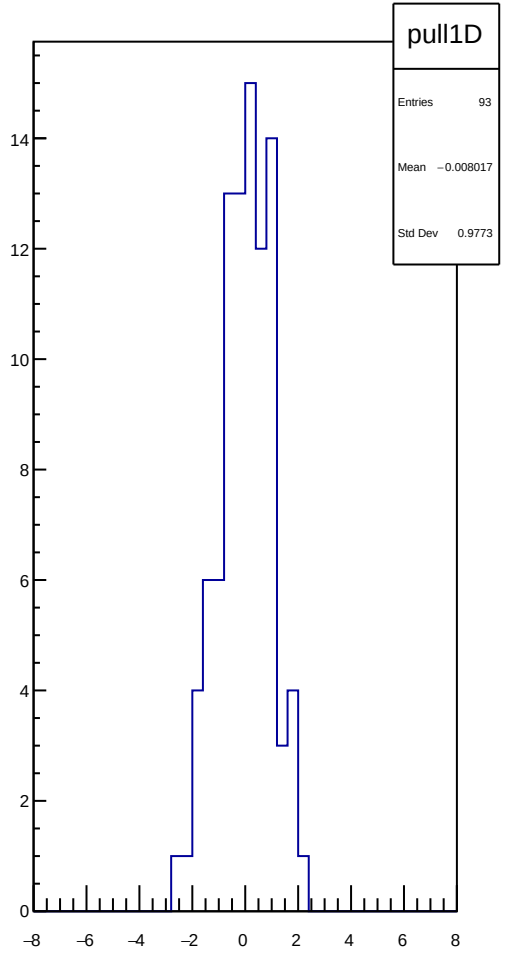

asym_sam1_dit_correction_rms vs run
χ² / ndf 3.031e+04 / 92
p0 281.2 ± 0.2103
380
360
340
320
300
280
260
240
220

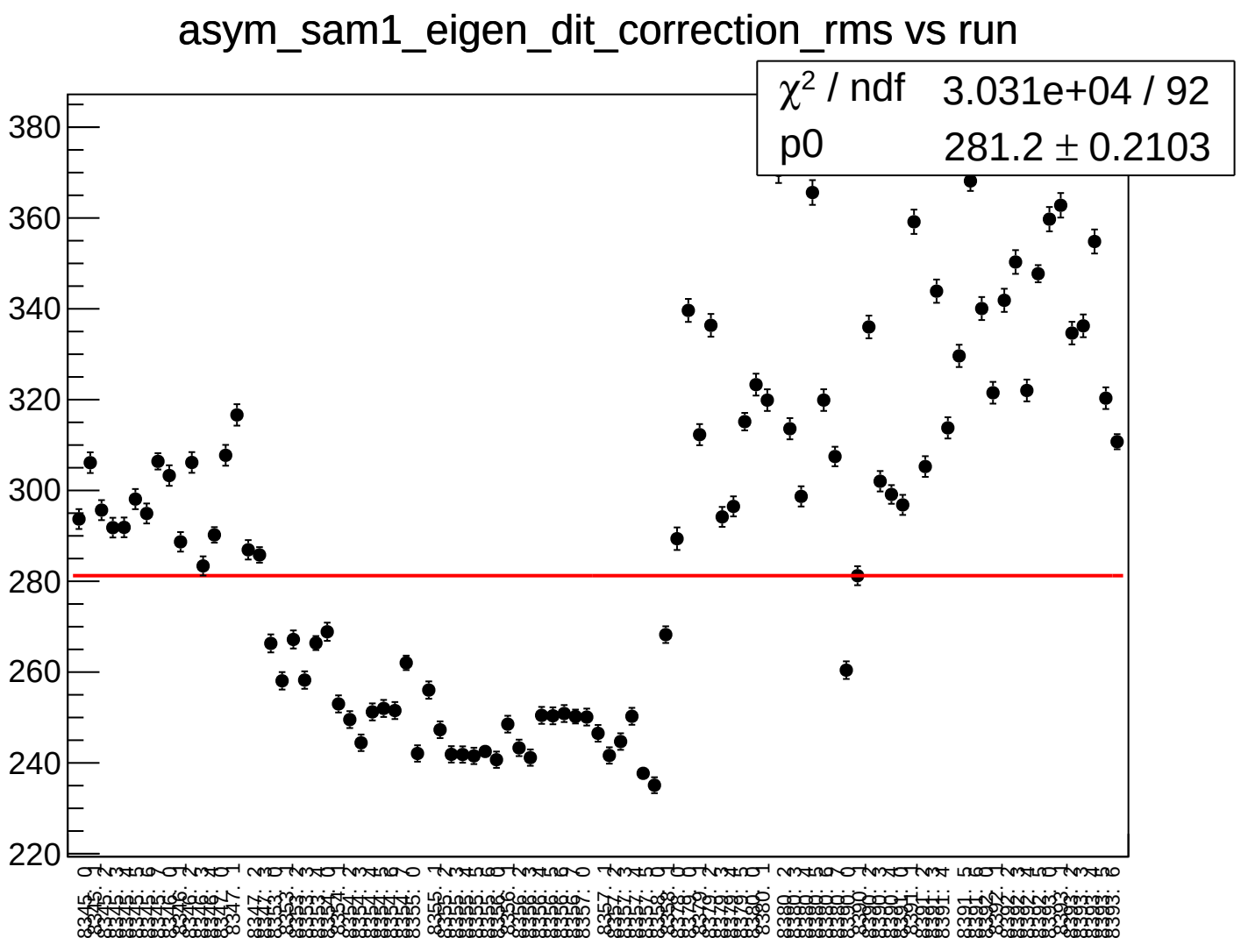

eigen_dit_asym_sam1_mean vs run
χ² / ndf 86.38 / 92
p0 −103.5 ± 68.14
3000
2000
1000
0
−1000
−2000
pull
Entries 93
Mean 522.4
Std Dev 0
3
2
1
0
−1
−2

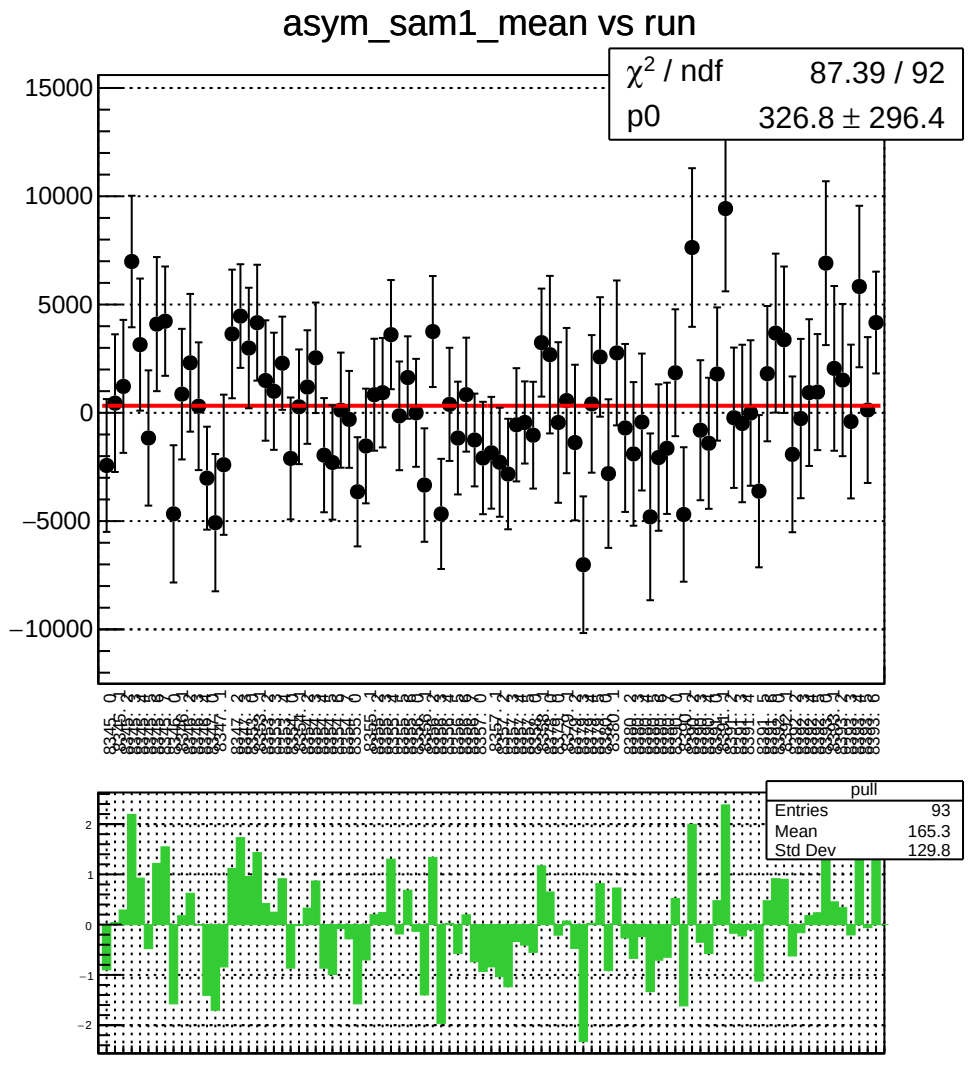

pull1D
Entries 93
Mean −0.002419
Std Dev 0.9637
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

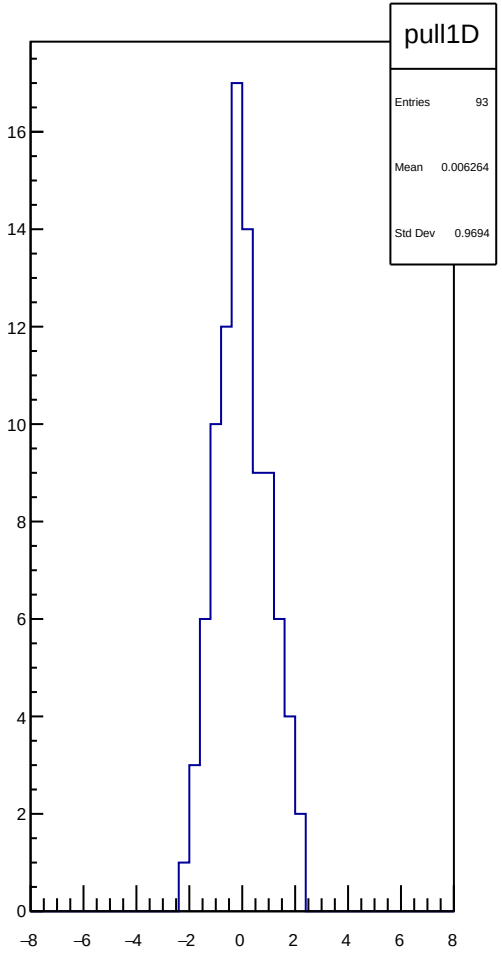

eigen_dit_asym_sam1_rms vs run
χ^2 / ndf 1755 / 92
p0 64.95 ± 0.04818
70
68
66
64
62
60

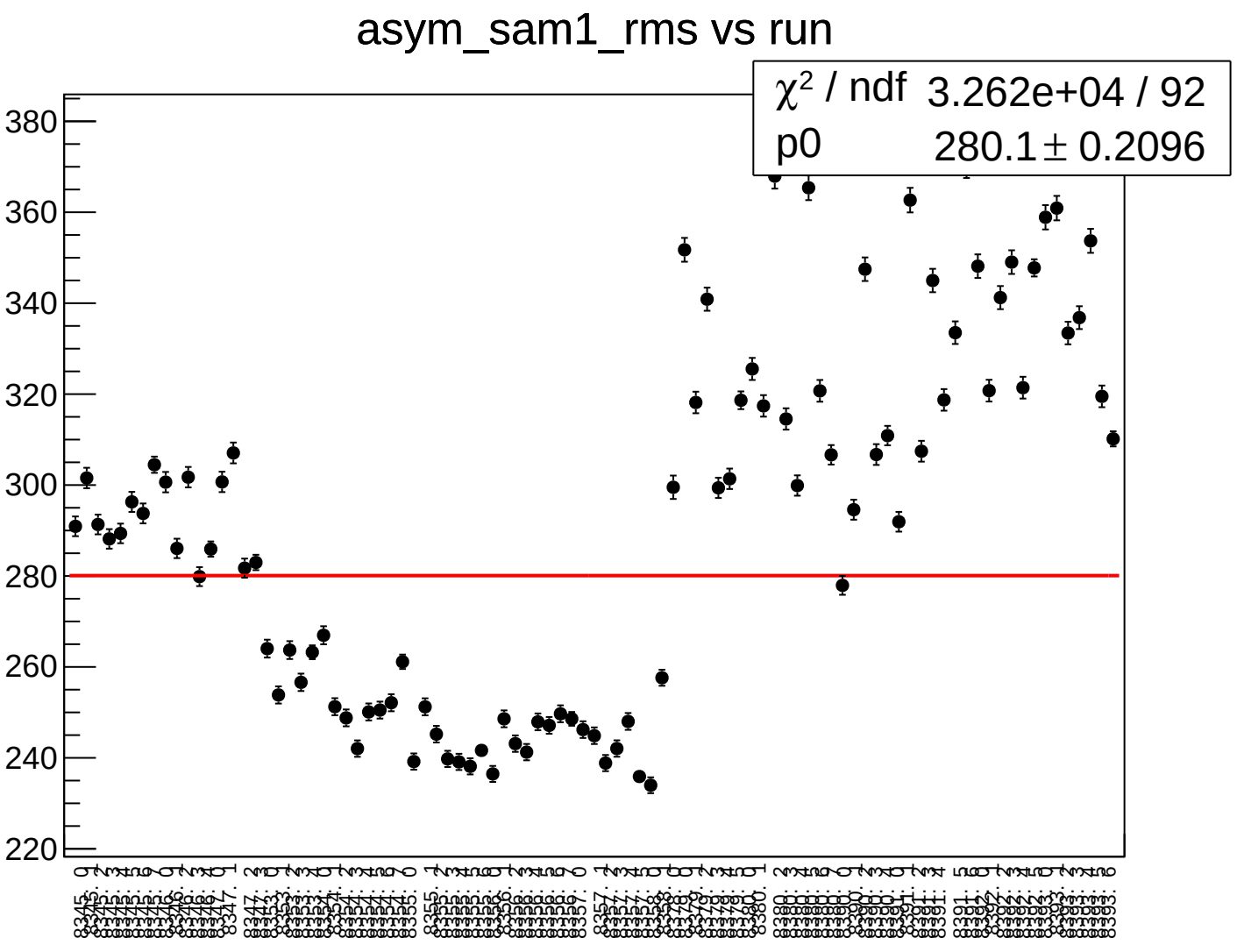

asym_sam1_eigen_dit_correction_mean vs run
χ² / ndf 88.84 / 92
p0 −426 ± 297.4
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean 159
Std Dev 100.8
2
1
0
−1
−2

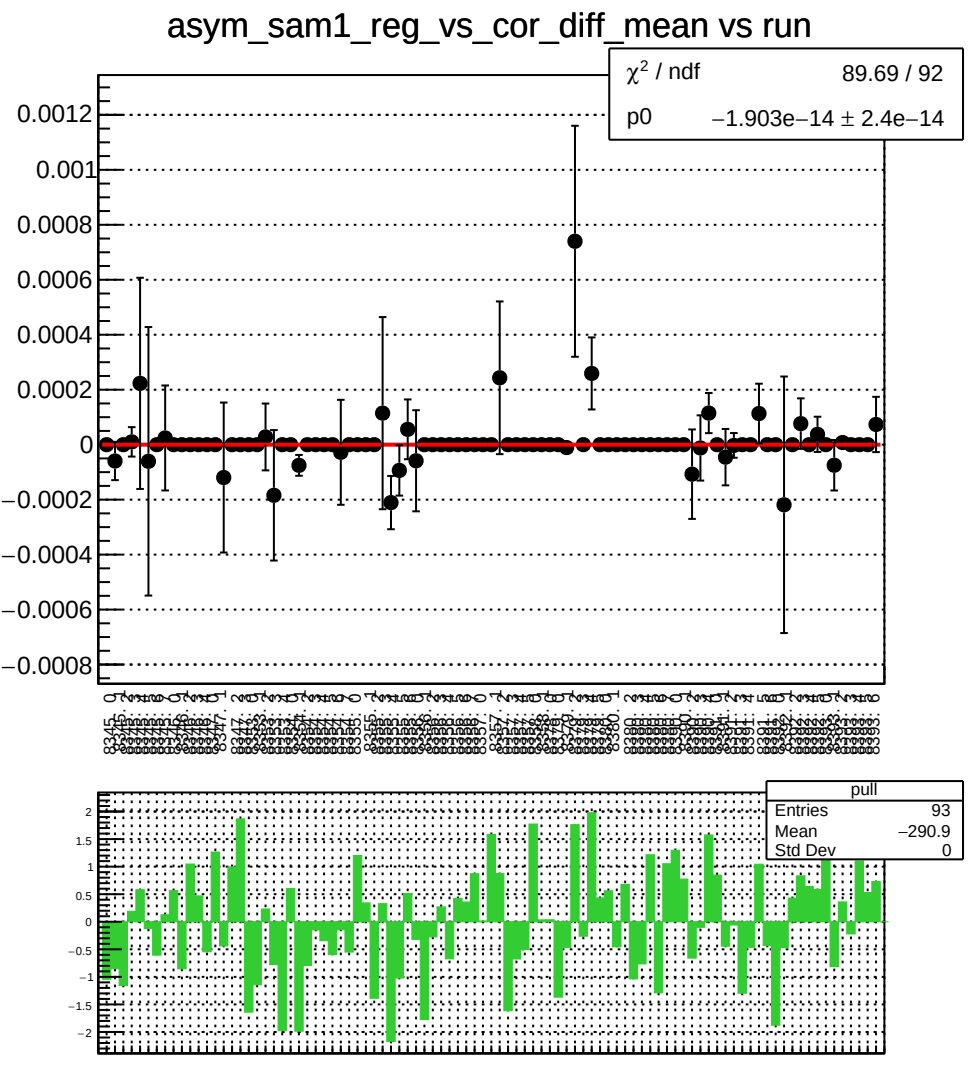

pull1D
Entries 93
Mean −0.008017
Std Dev 0.9773
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

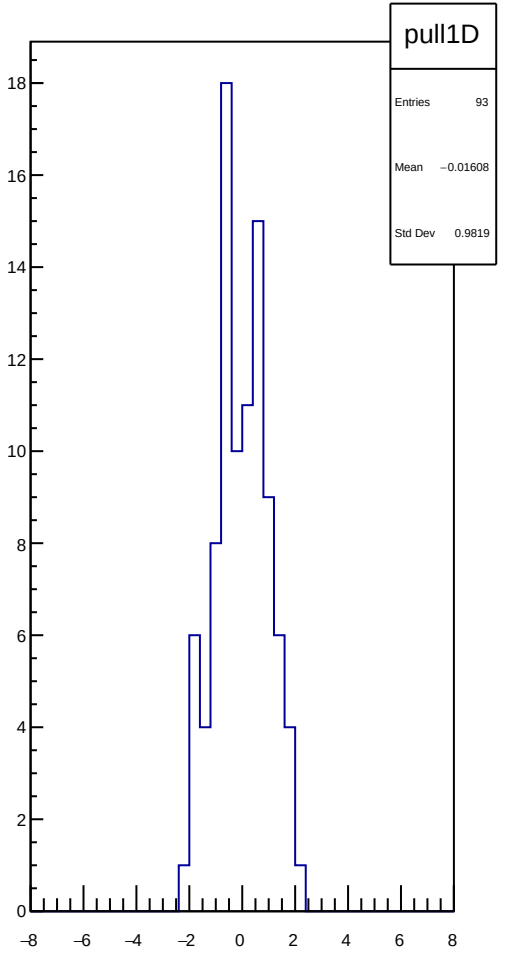

asym_sam1_eigen_dit_correction_rms vs run
χ² / ndf 3.031e+04 / 92
p0 281.2 ± 0.2103
380
360
340
320
300
280
260
240
220

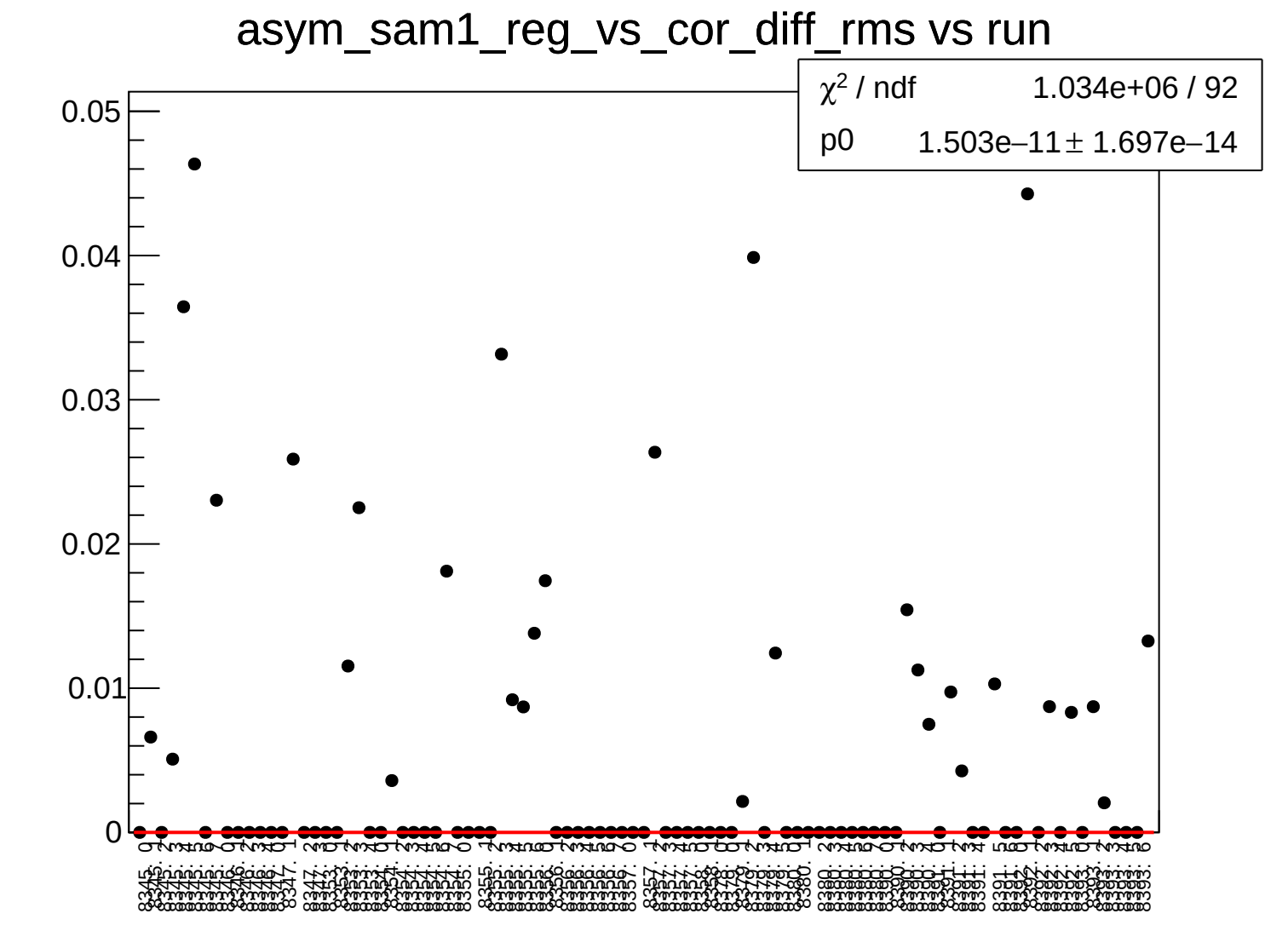

asym_sam1_mean vs run
χ² / ndf 87.39 / 92
p0 326.8 ± 296.4
15000
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 165.3
Std Dev 129.8
2
1
0
−1
−2

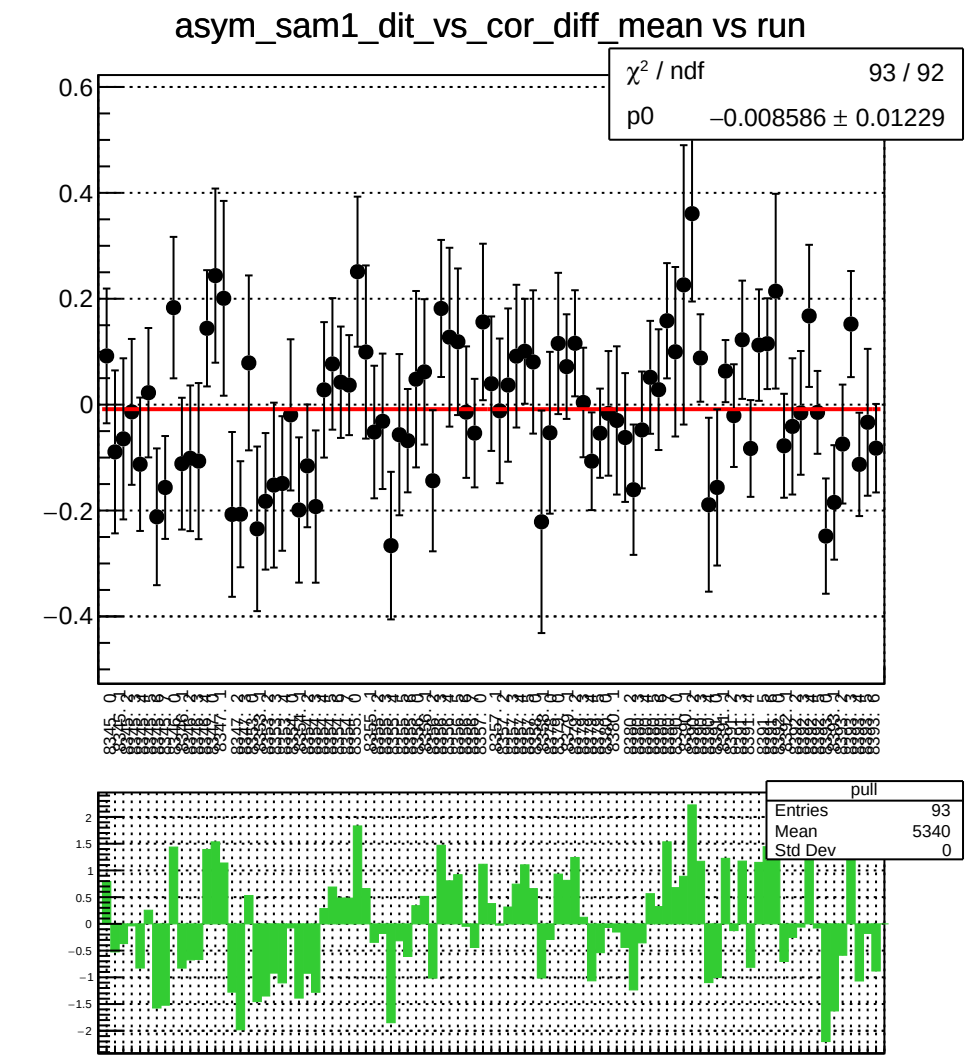

pull1D
Entries 93
Mean 0.006264
Std Dev 0.9694
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

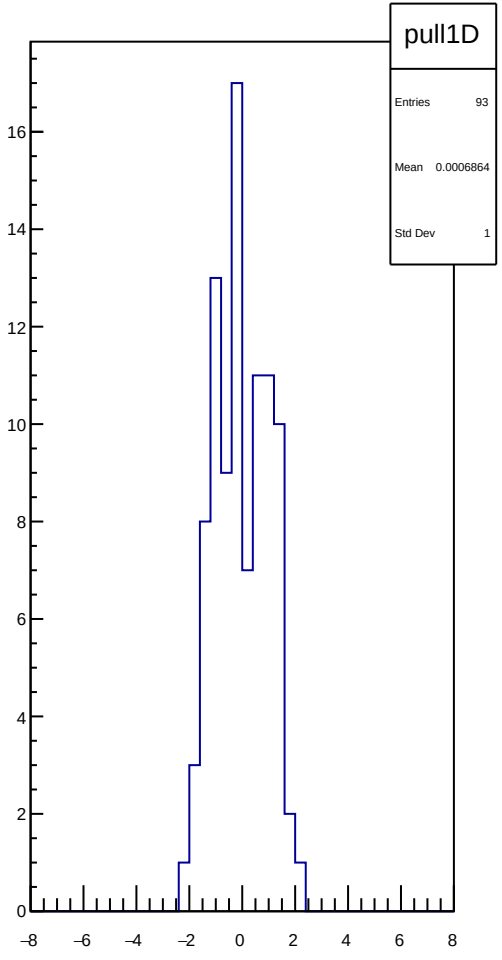

asym_sam1_rms vs run
χ² / ndf 3.262e+04 / 92
p0 280.1 ± 0.2096
380
360
340
320
300
280
260
240
220

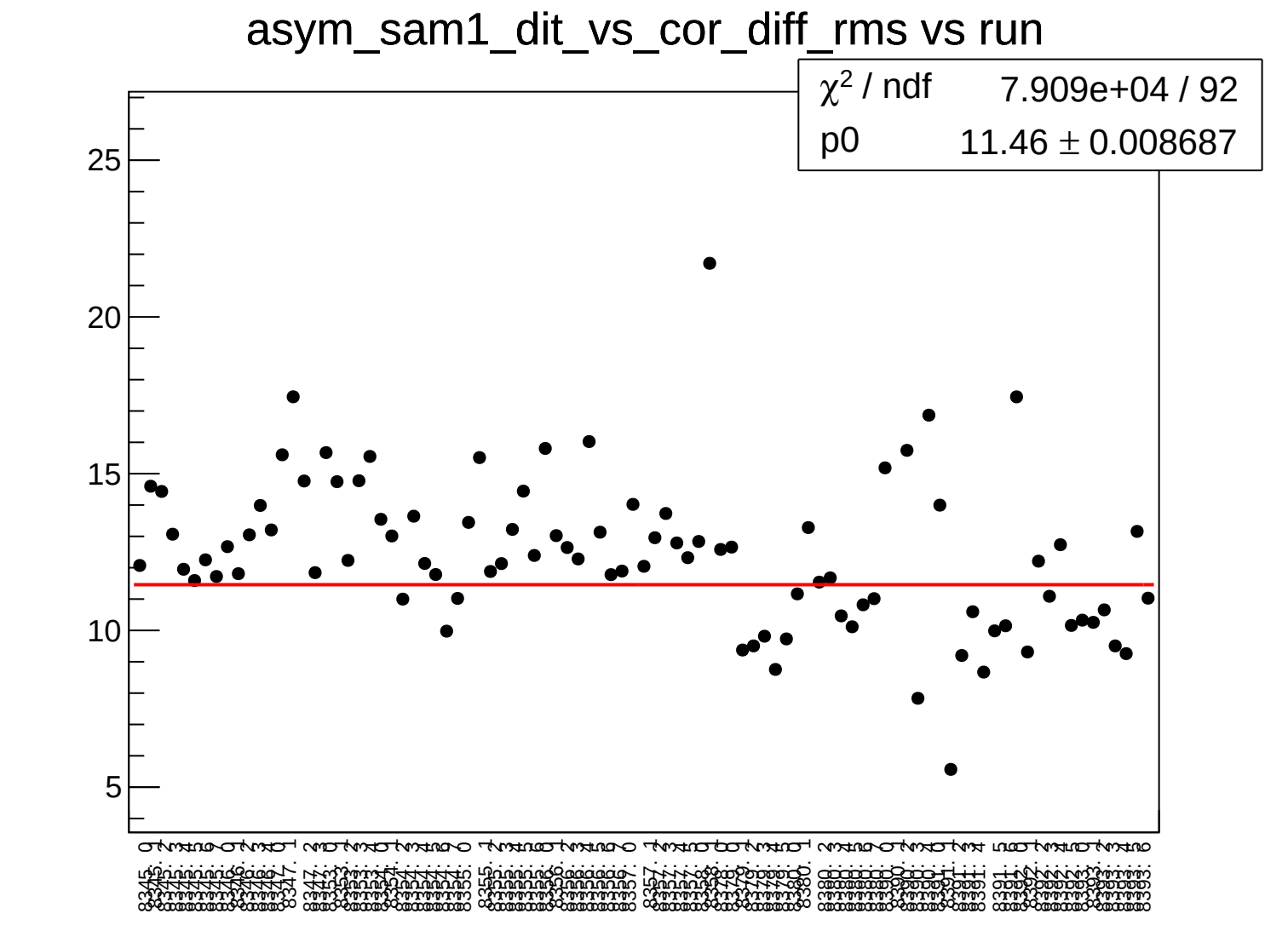

asym_sam1_reg_vs_cor_diff_mean vs run
χ² / ndf 89.69 / 92
p0 −1.903e−14 ± 2.4e−14
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
pull
Entries 93
Mean −290.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

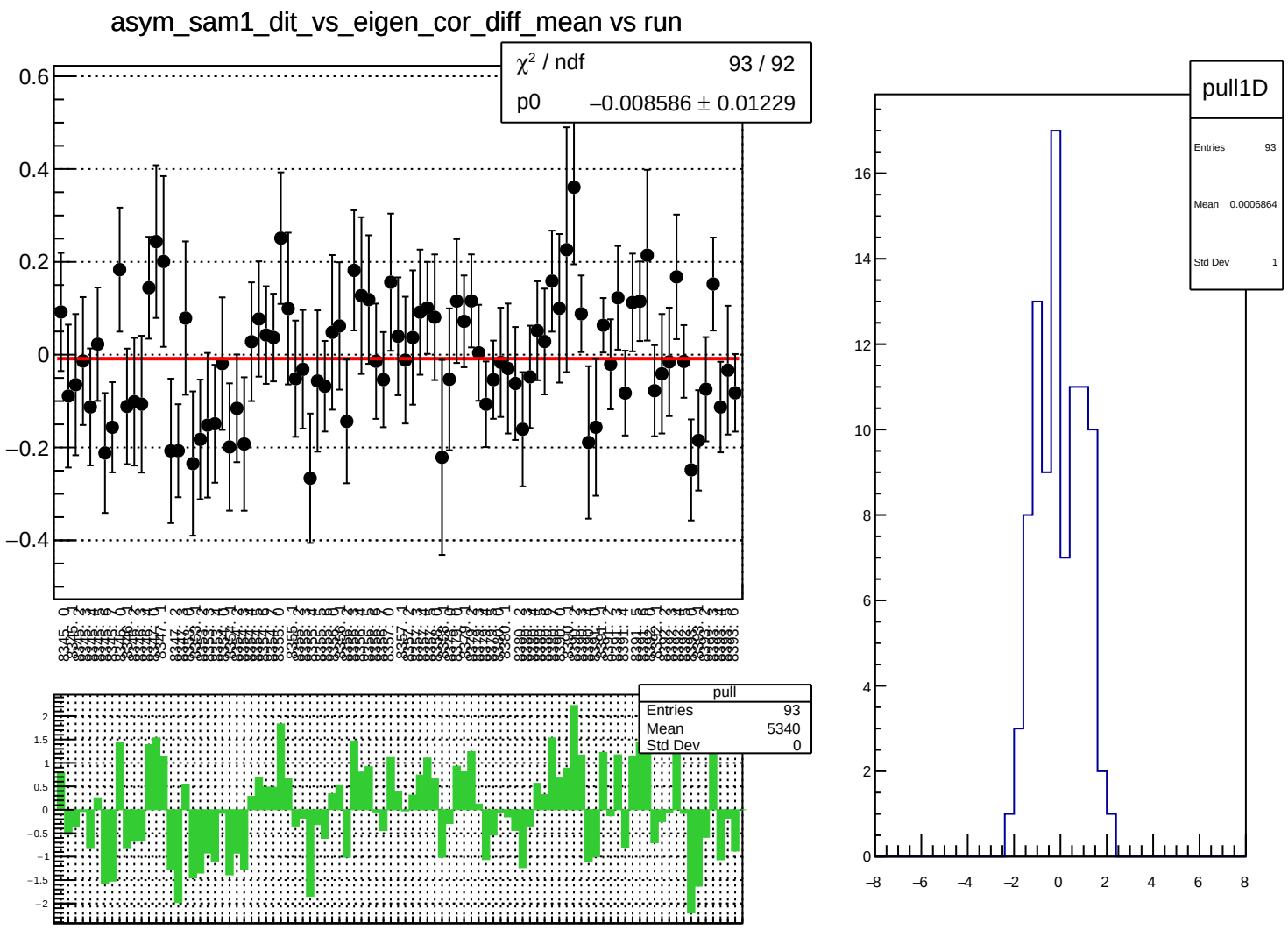

pull1D
Entries 93
Mean −0.01608
Std Dev 0.9819
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

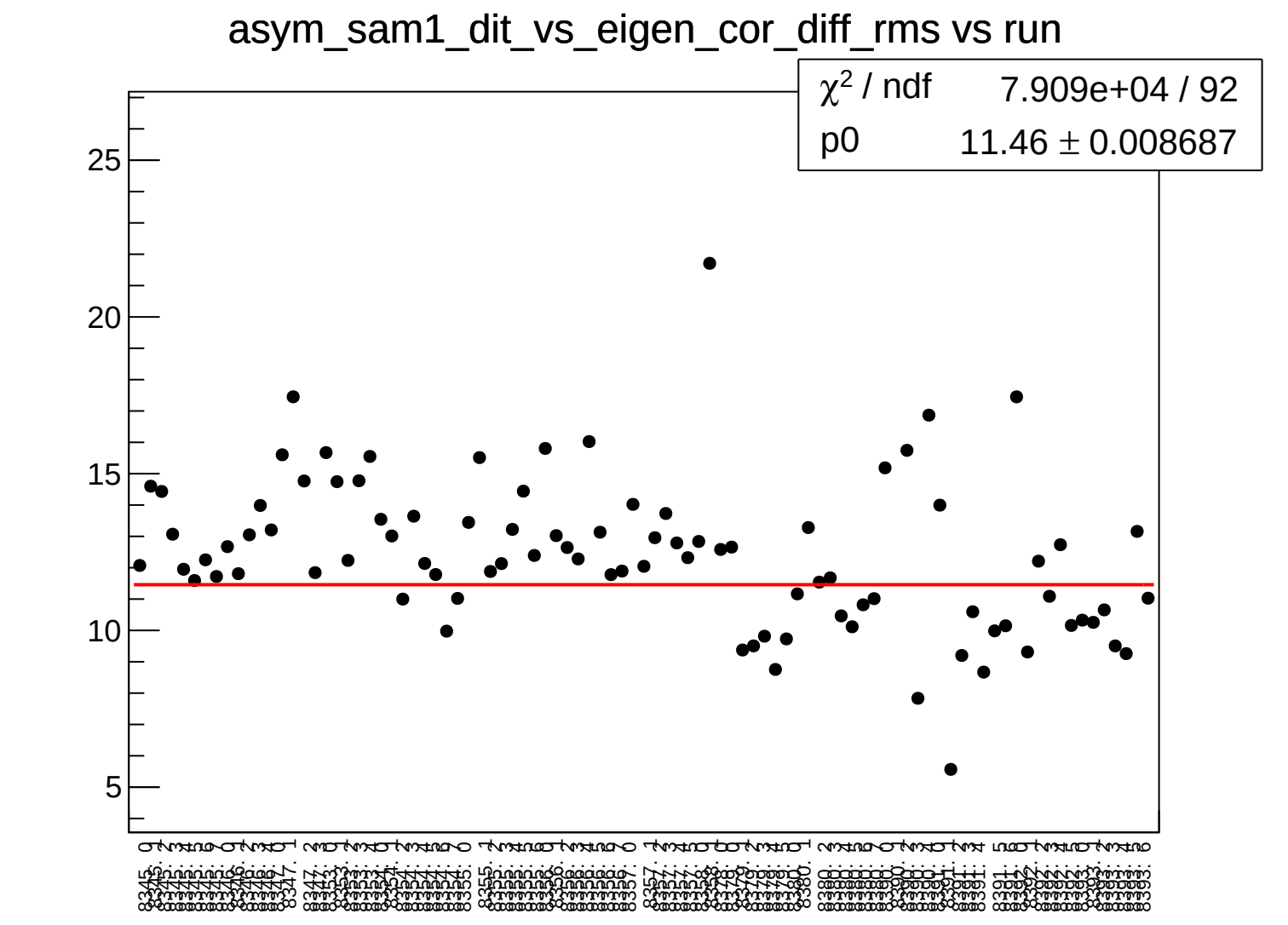

asym_sam1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.034e+06 / 92
p0 1.503e−11 ± 1.697e−14
0.05
0.04
0.03
0.02
0.01
0

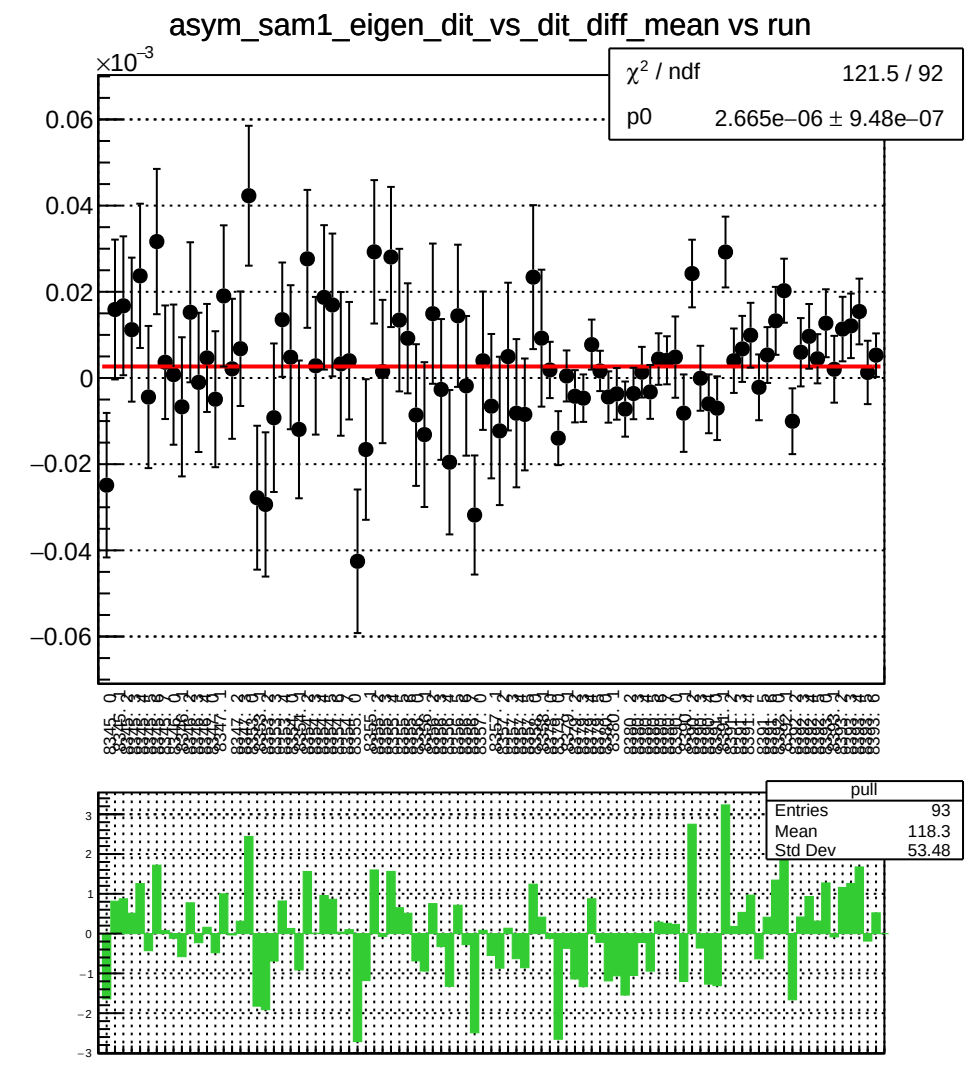

asym_sam1_dit_vs_cor_diff_mean vs run
χ² / ndf 93 / 92
p0 −0.008586 ± 0.01229
pull
Entries 93
Mean 5340
Std Dev 0

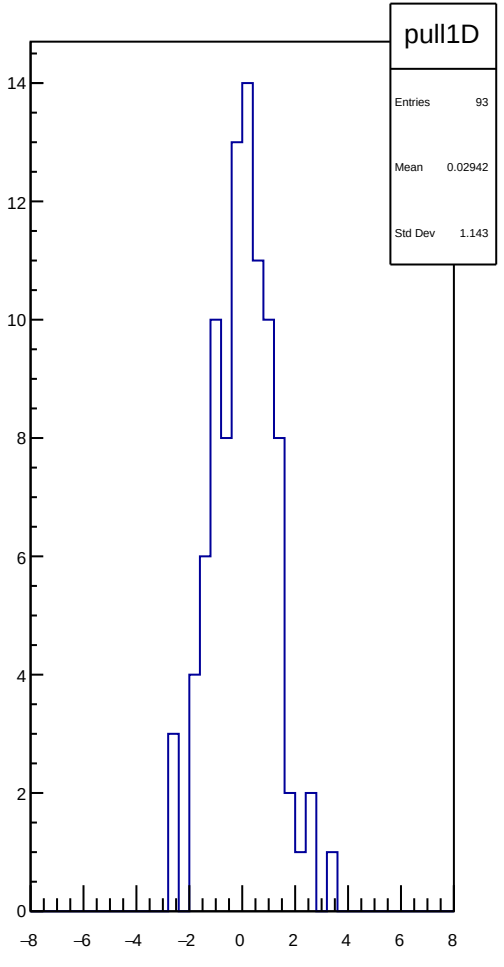

pull1D
Entries 93
Mean 0.0006864
Std Dev 1

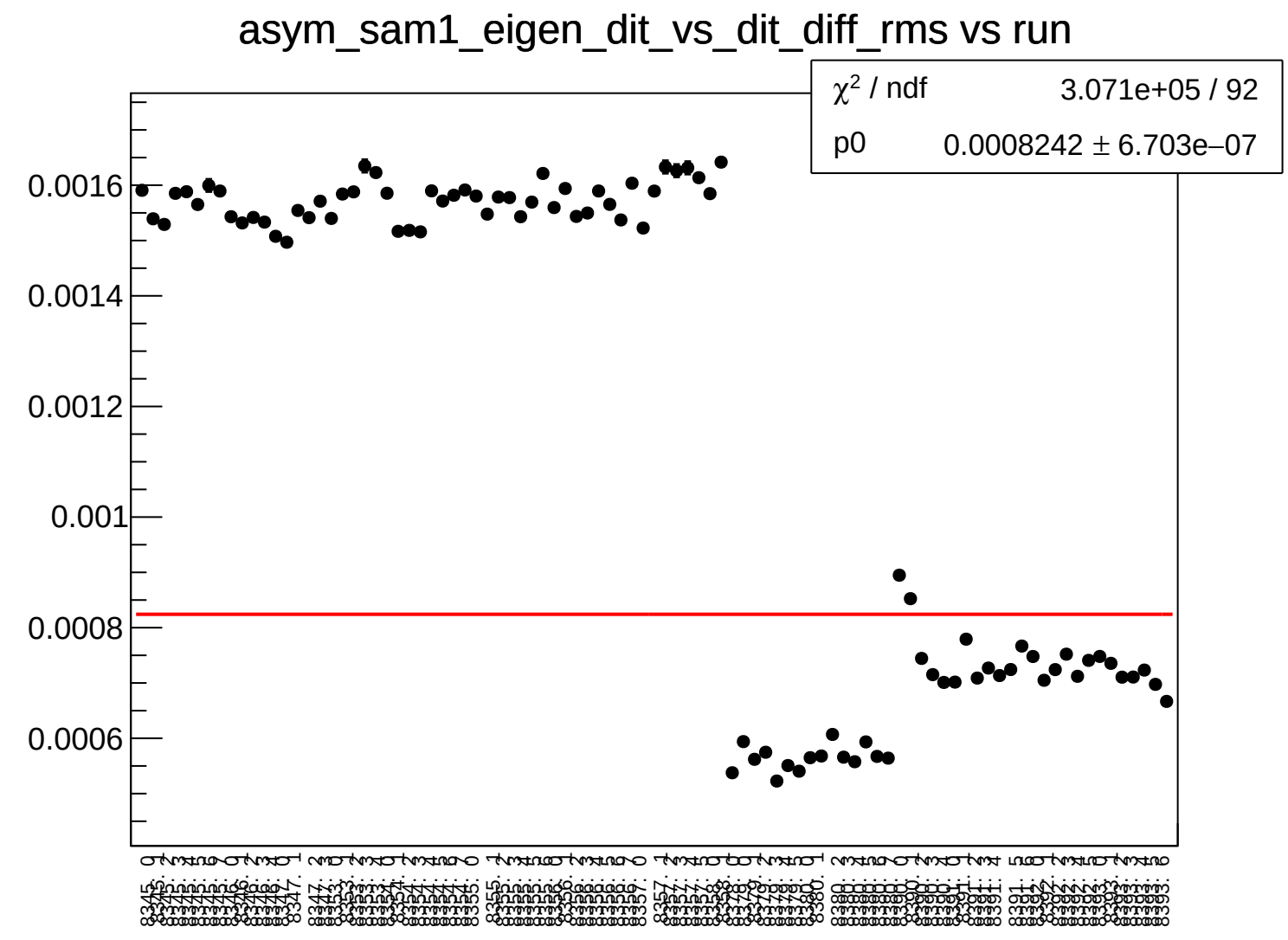

asym_sam1_dit_vs_cor_diff_rms vs run
χ^2 / ndf 7.909e+04 / 92
p0 11.46 ± 0.008687
25
20
15
10
5

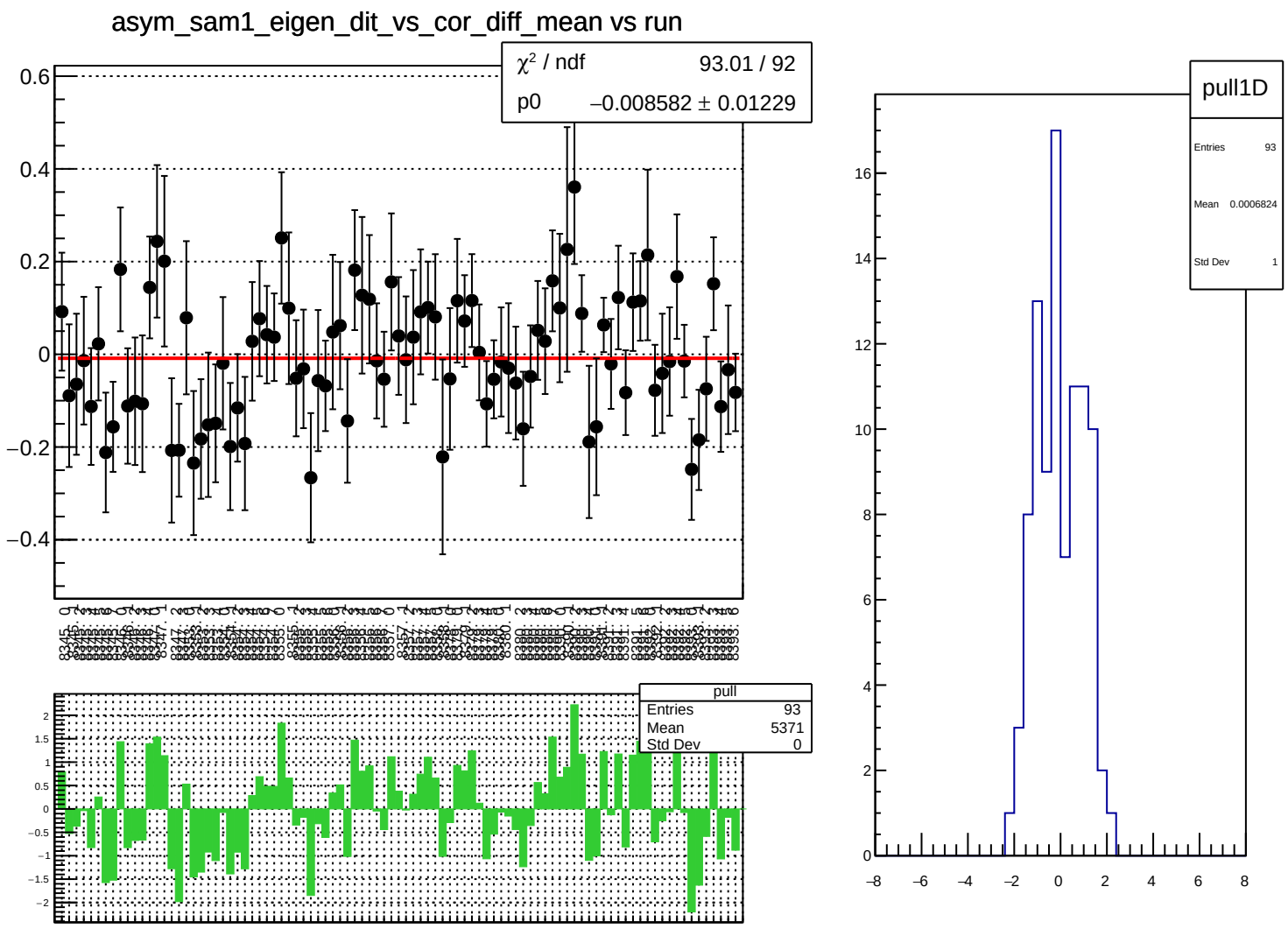

asym_sam1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93 / 92
p0 −0.008586 ± 0.01229
pull
Entries 93
Mean 5340
Std Dev 0
pull1D
Entries 93
Mean 0.0006864
Std Dev 1

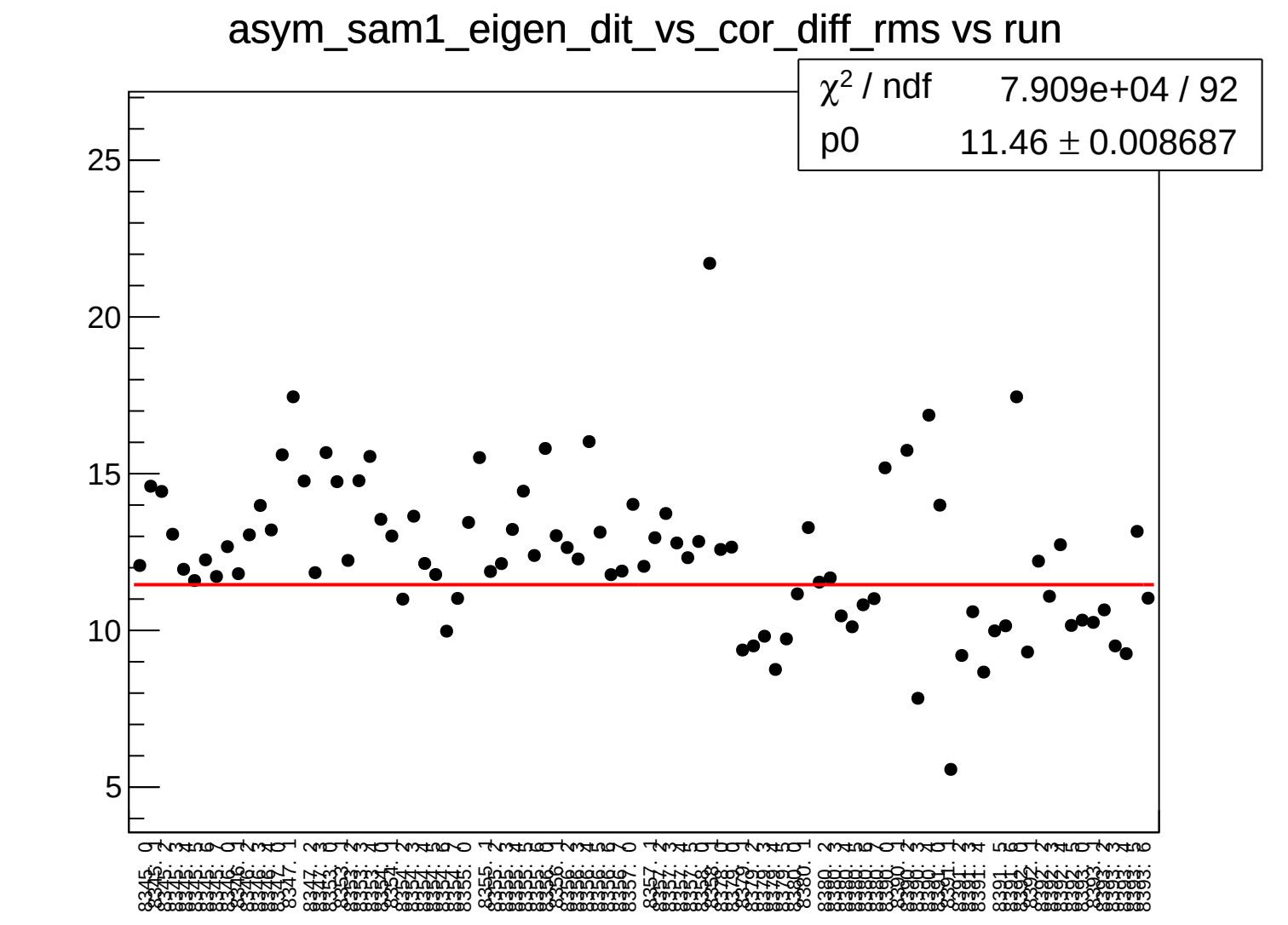

asym_sam1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.909e+04 / 92
p0 11.46 ± 0.008687
25
20
15
10
5

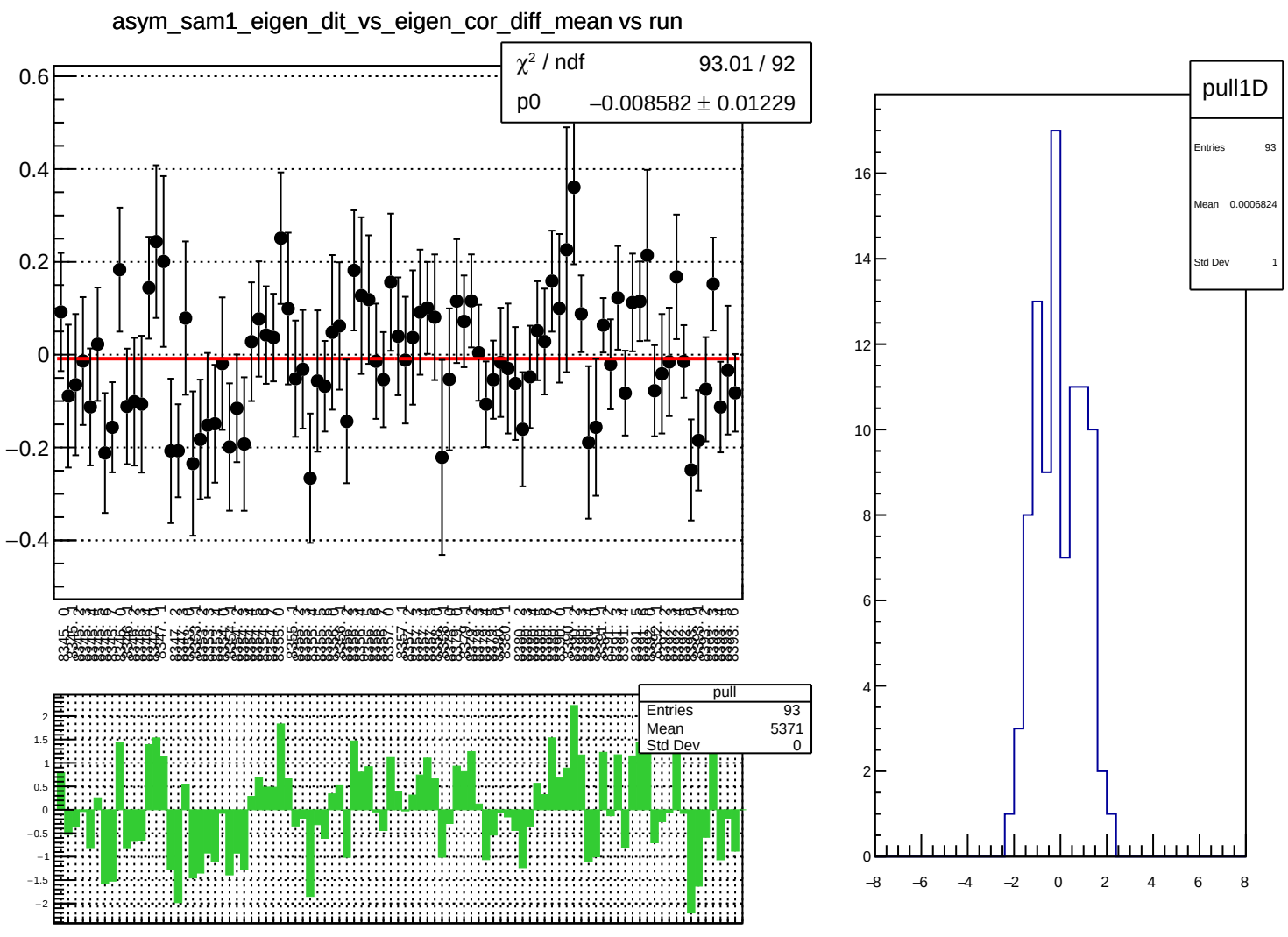

asym_sam1_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 121.5 / 92
p0 2.665e−06 ± 9.48e−07
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 93
Mean 118.3
Std Dev 53.48
3
2
1
0
−1
−2
−3

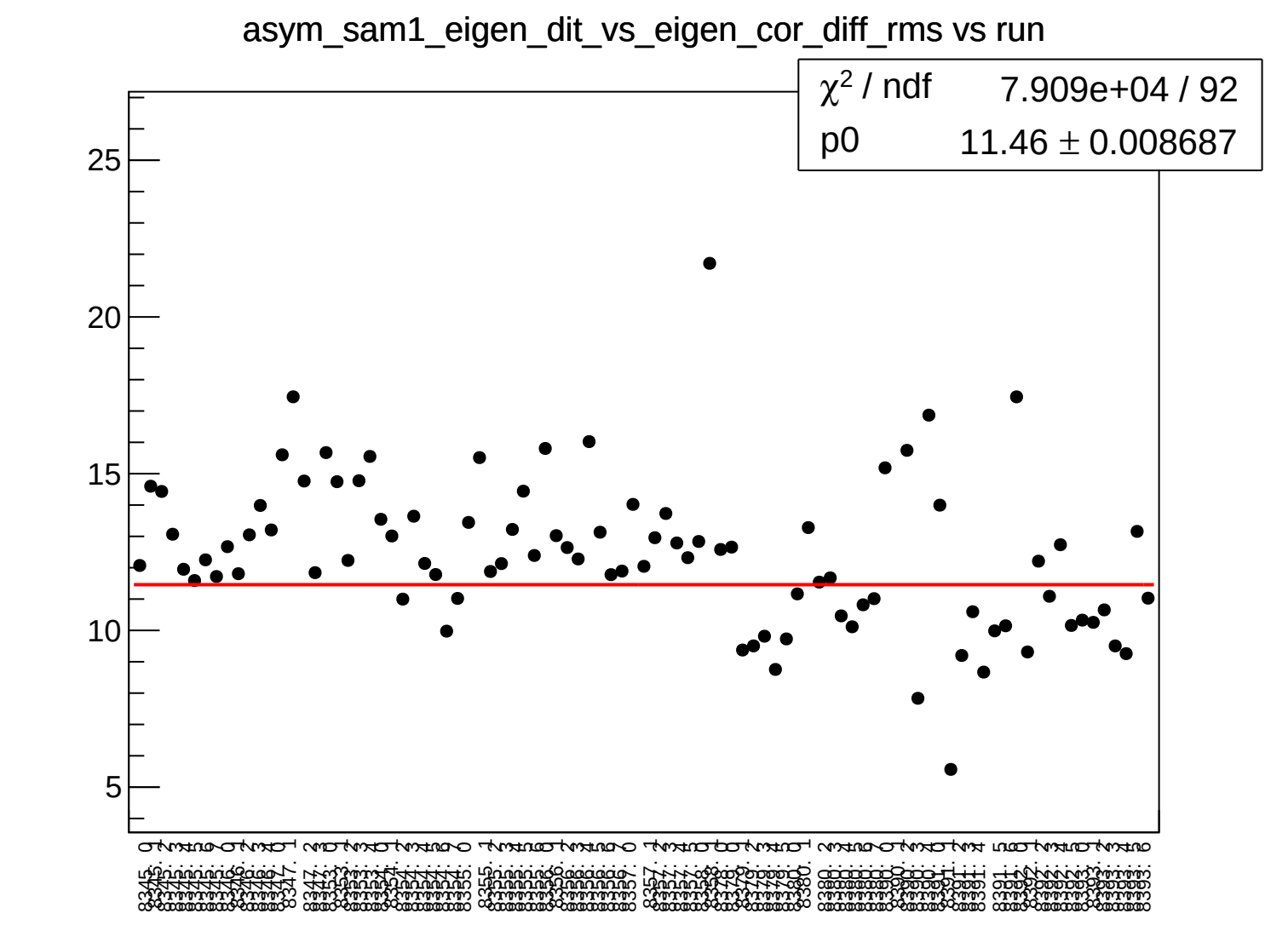

pull1D
Entries 93
Mean 0.02942
Std Dev 1.143
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

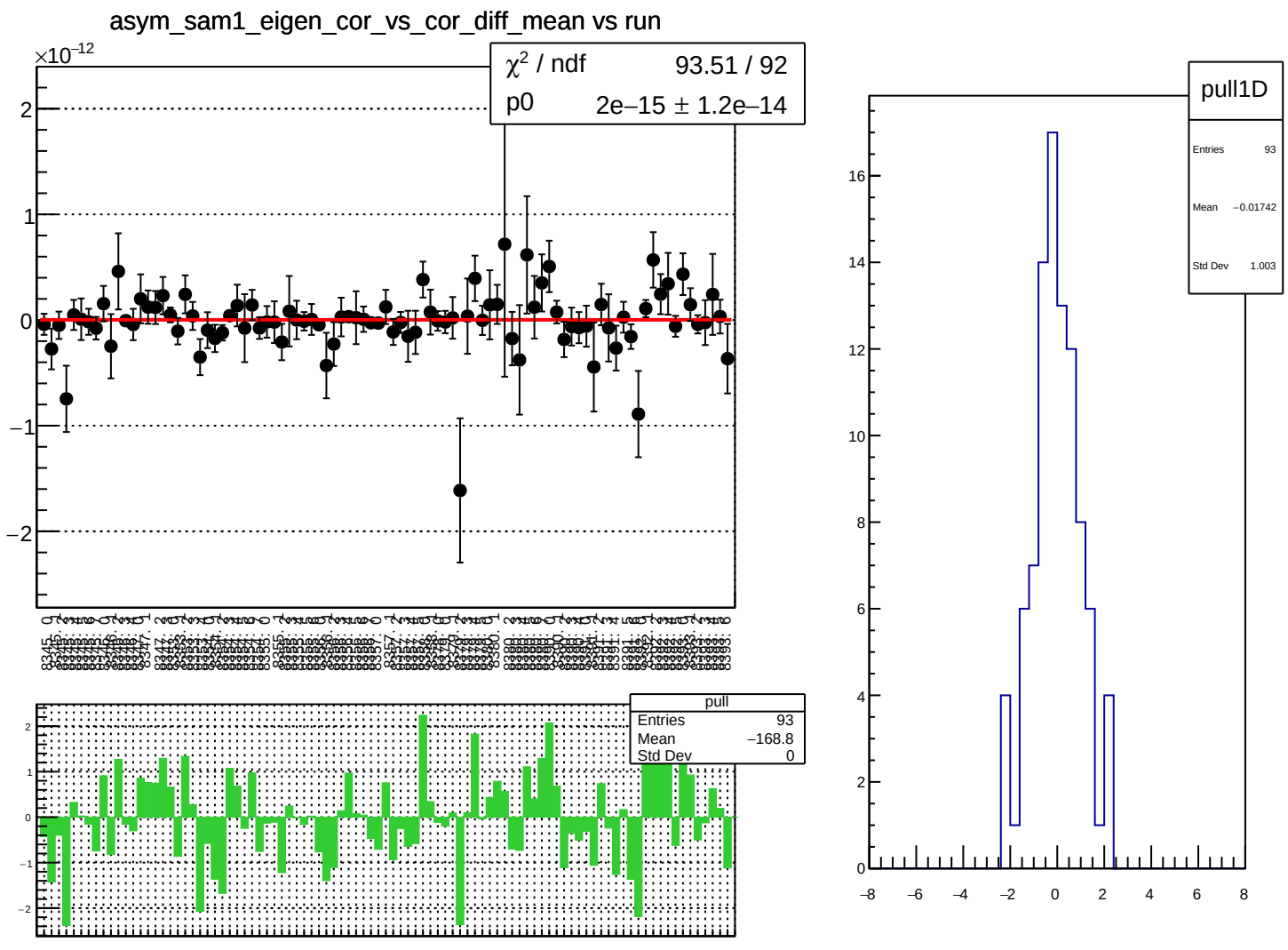

asym_sam1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.071e+05 / 92
p0 0.0008242 ± 6.703e−07
0.0016
0.0014
0.0012
0.001
0.0008
0.0006

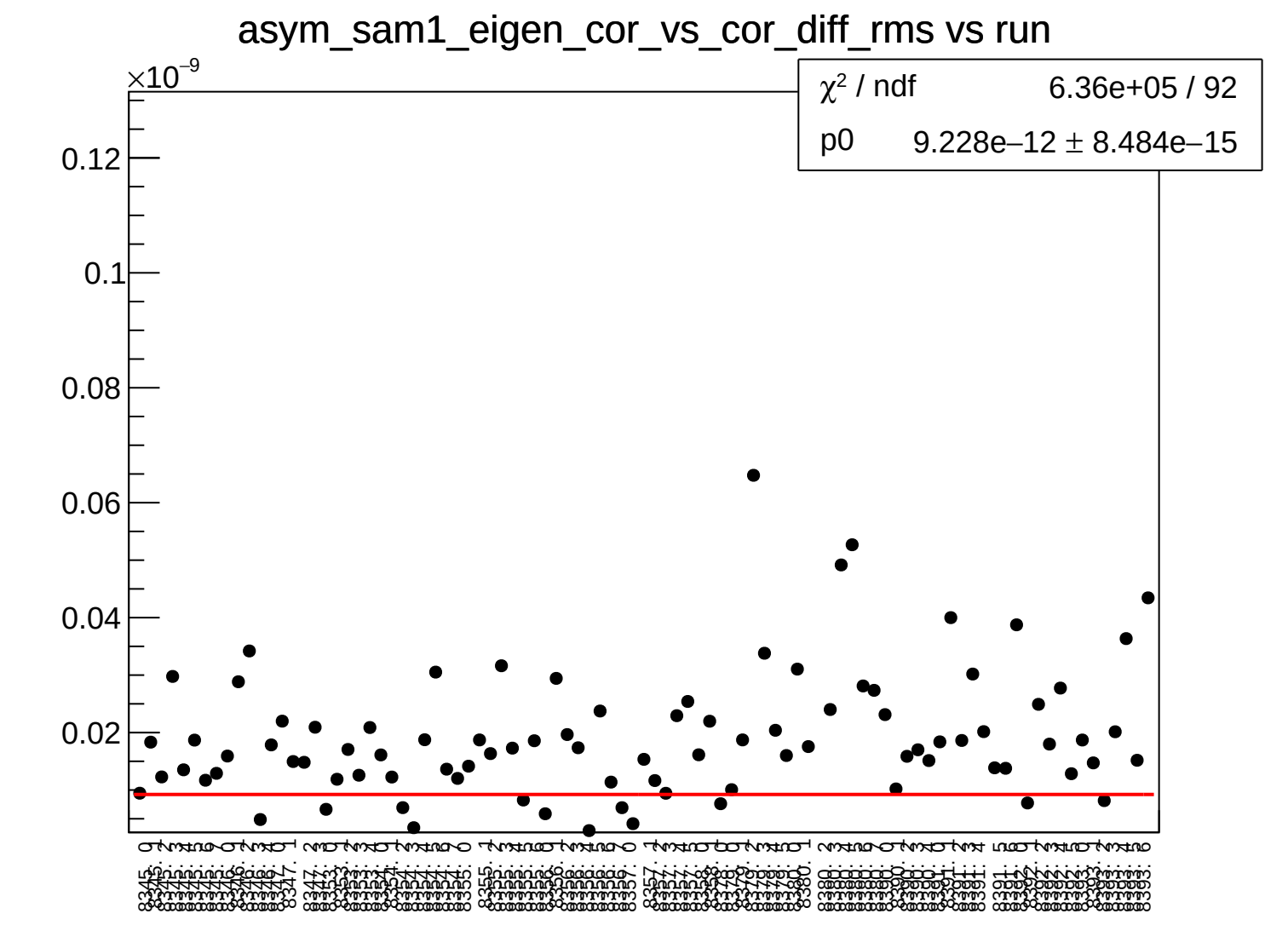

asym_sam1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.01 / 92
p0 −0.008582 ± 0.01229
pull
Entries 93
Mean 5371
Std Dev 0
pull1D
Entries 93
Mean 0.0006824
Std Dev 1

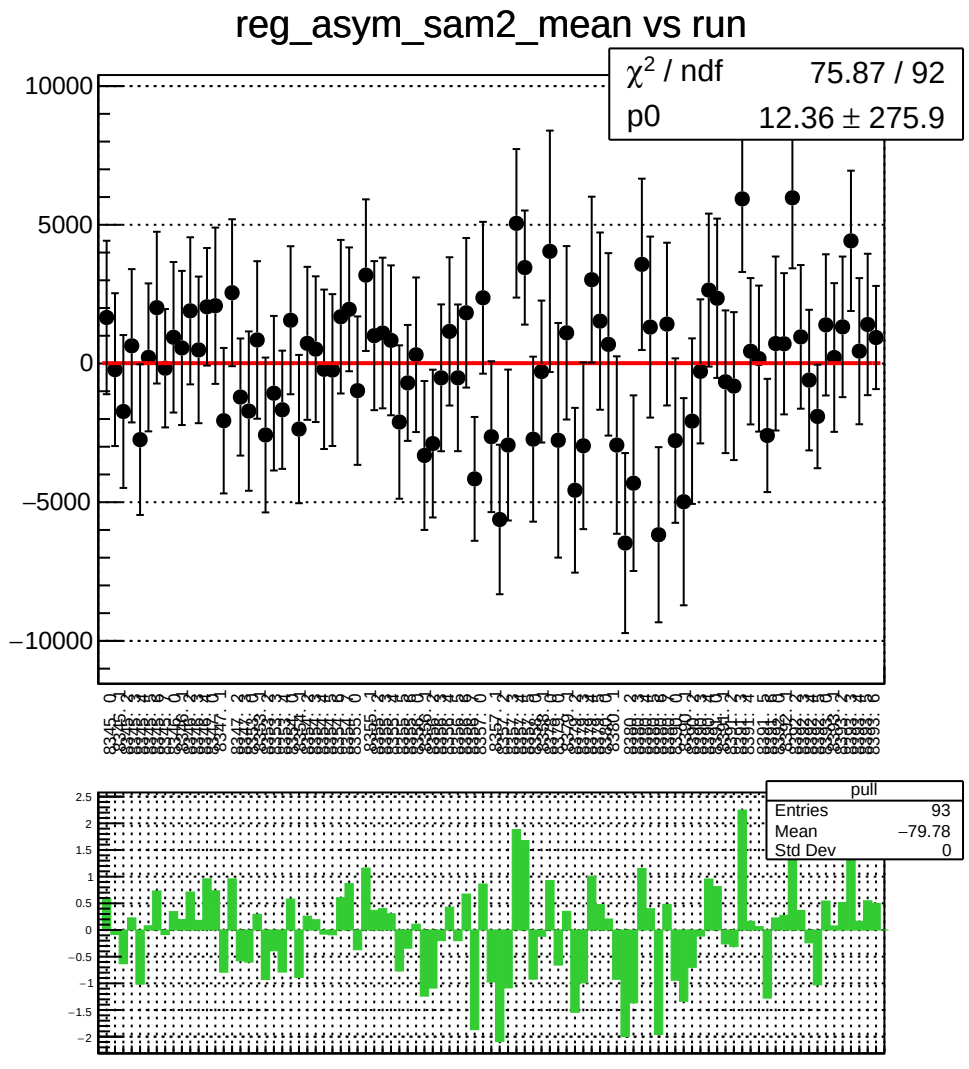

asym_sam1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.909e+04 / 92
p0 11.46 ± 0.008687
25
20
15
10
5

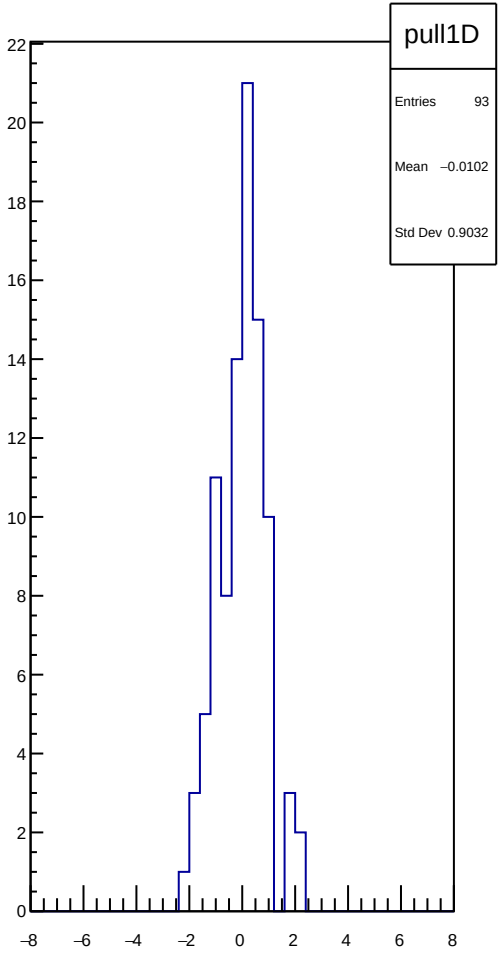

asym_sam1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.01 / 92
p0 −0.008582 ± 0.01229
pull
Entries 93
Mean 5371
Std Dev 0
pull1D
Entries 93
Mean 0.0006824
Std Dev 1

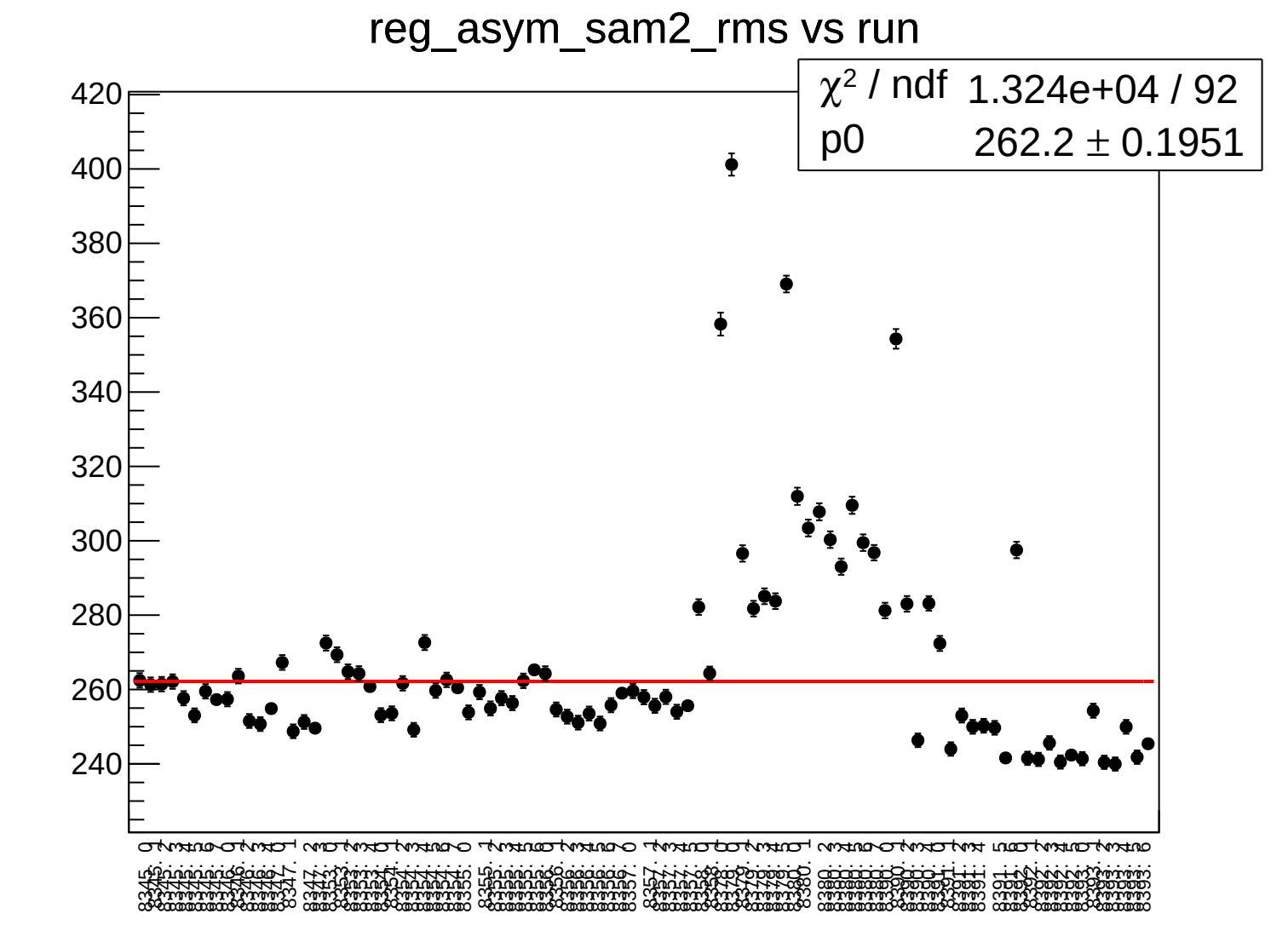

asym_sam1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.909e+04 / 92
p0 11.46 ± 0.008687
25
20
15
10
5

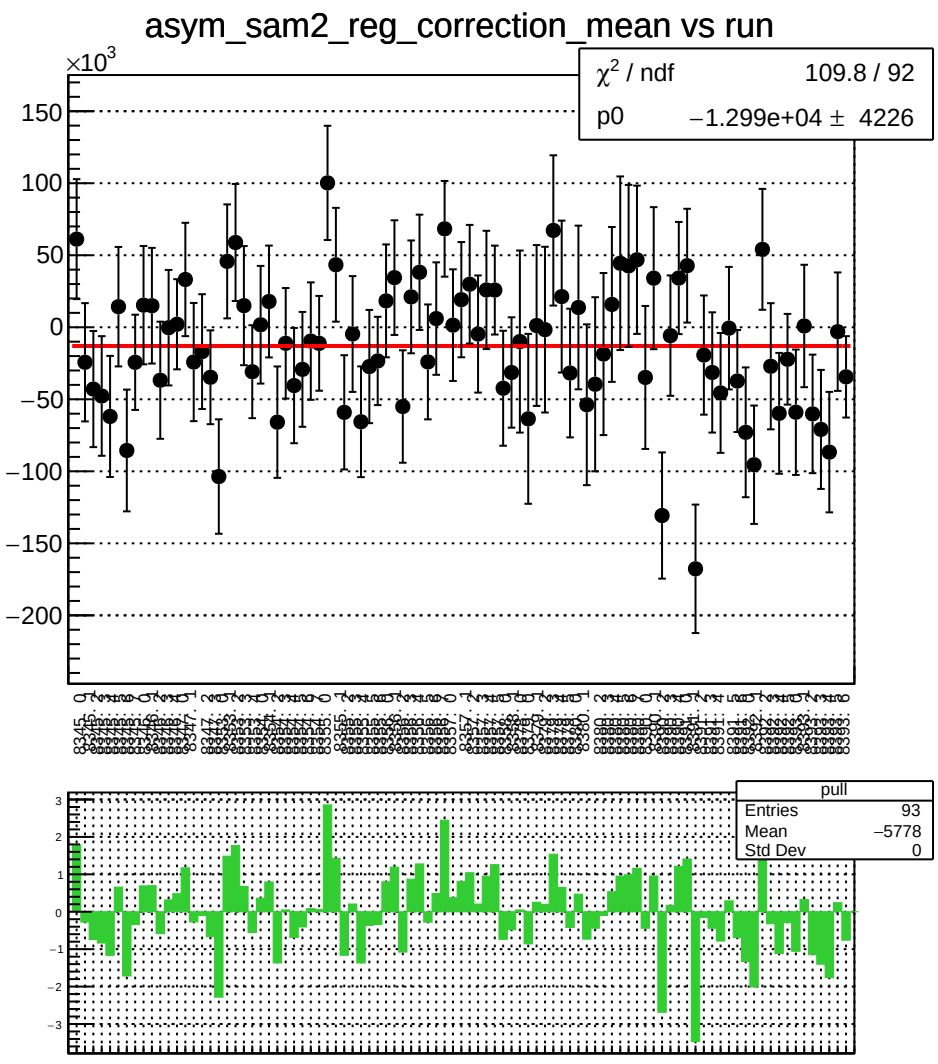

asym_sam1_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 93.51 / 92
p0 2e−15 ± 1.2e−14
pull
Entries 93
Mean −168.8
Std Dev 0
pull1D
Entries 93
Mean −0.01742
Std Dev 1.003

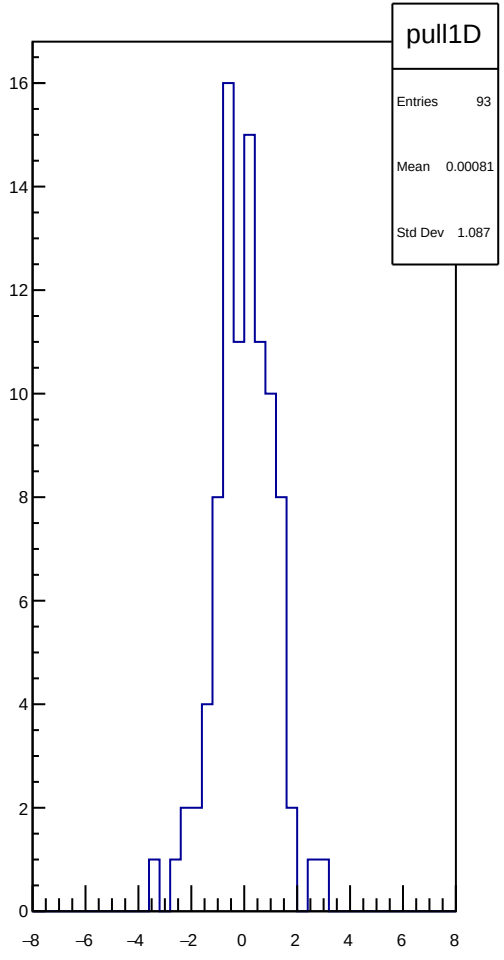

asym_sam1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.36e+05 / 92
p0 9.228e−12 ± 8.484e−15
0.12
0.1
0.08
0.06
0.04
0.02

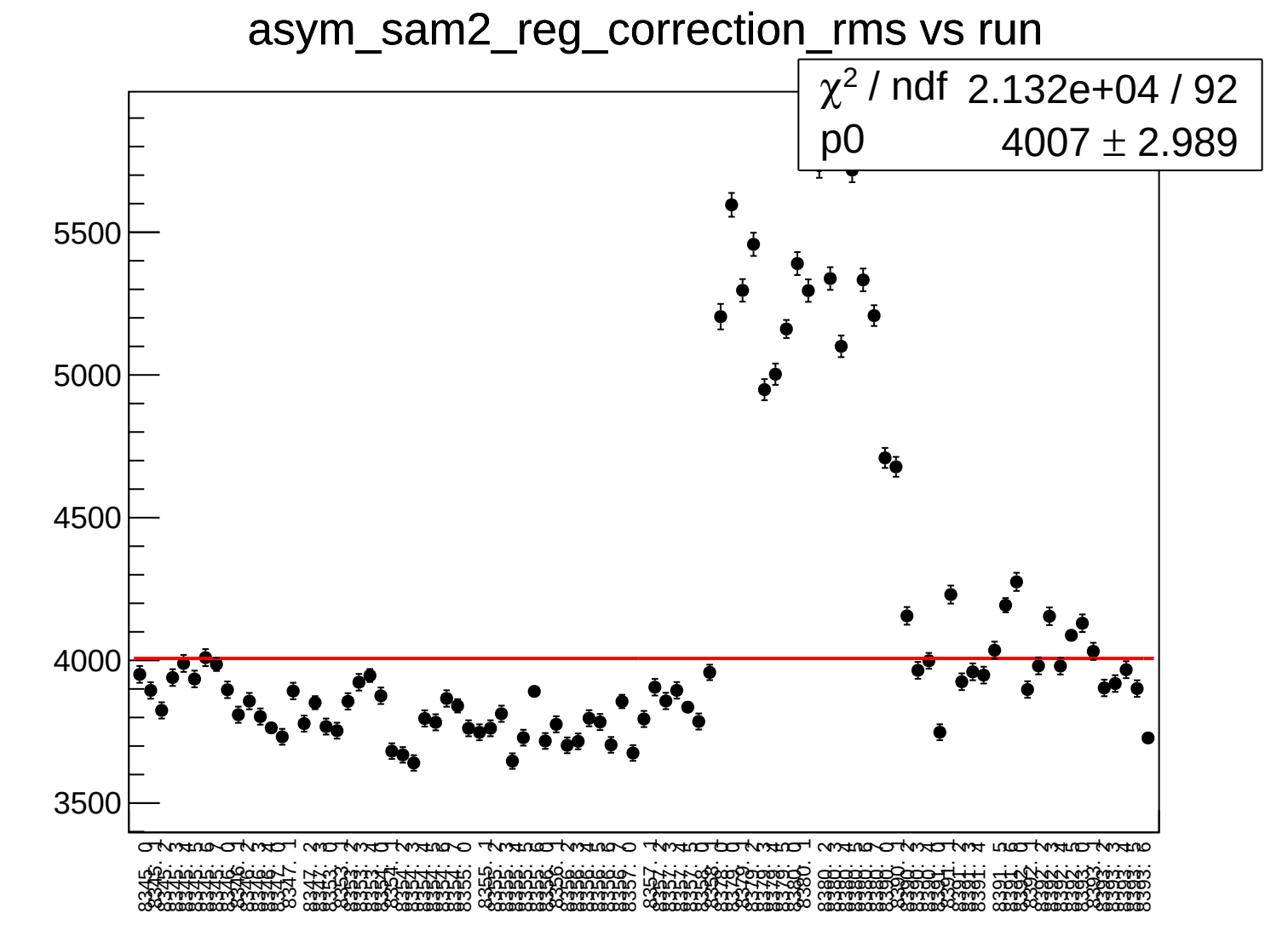

reg_asym_sam2_mean vs run
χ² / ndf 75.87 / 92
p0 12.36 ± 275.9
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −79.78
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

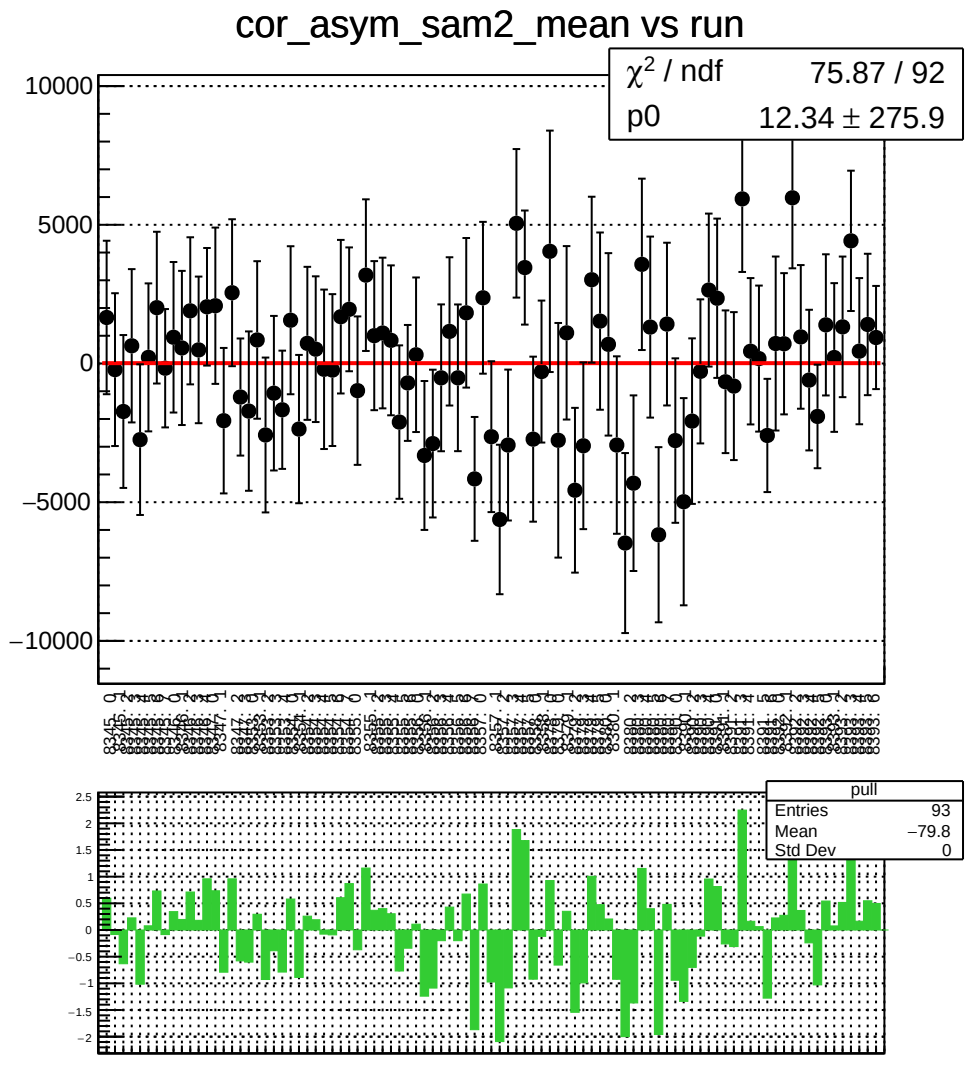

pull1D
Entries 93
Mean −0.0102
Std Dev 0.9032
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

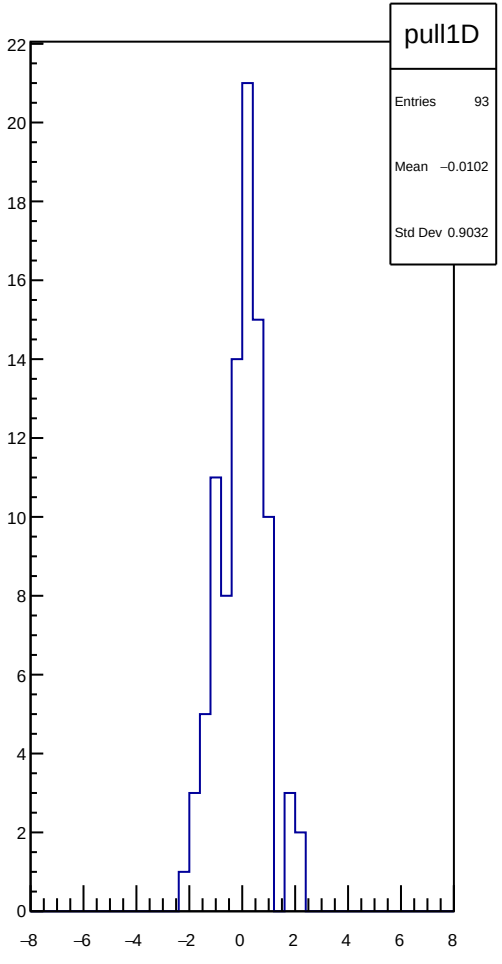

reg_asym_sam2_rms vs run
χ² / ndf 1.324e+04 / 92
p0 262.2 ± 0.1951
420
400
380
360
340
320
300
280
260
240

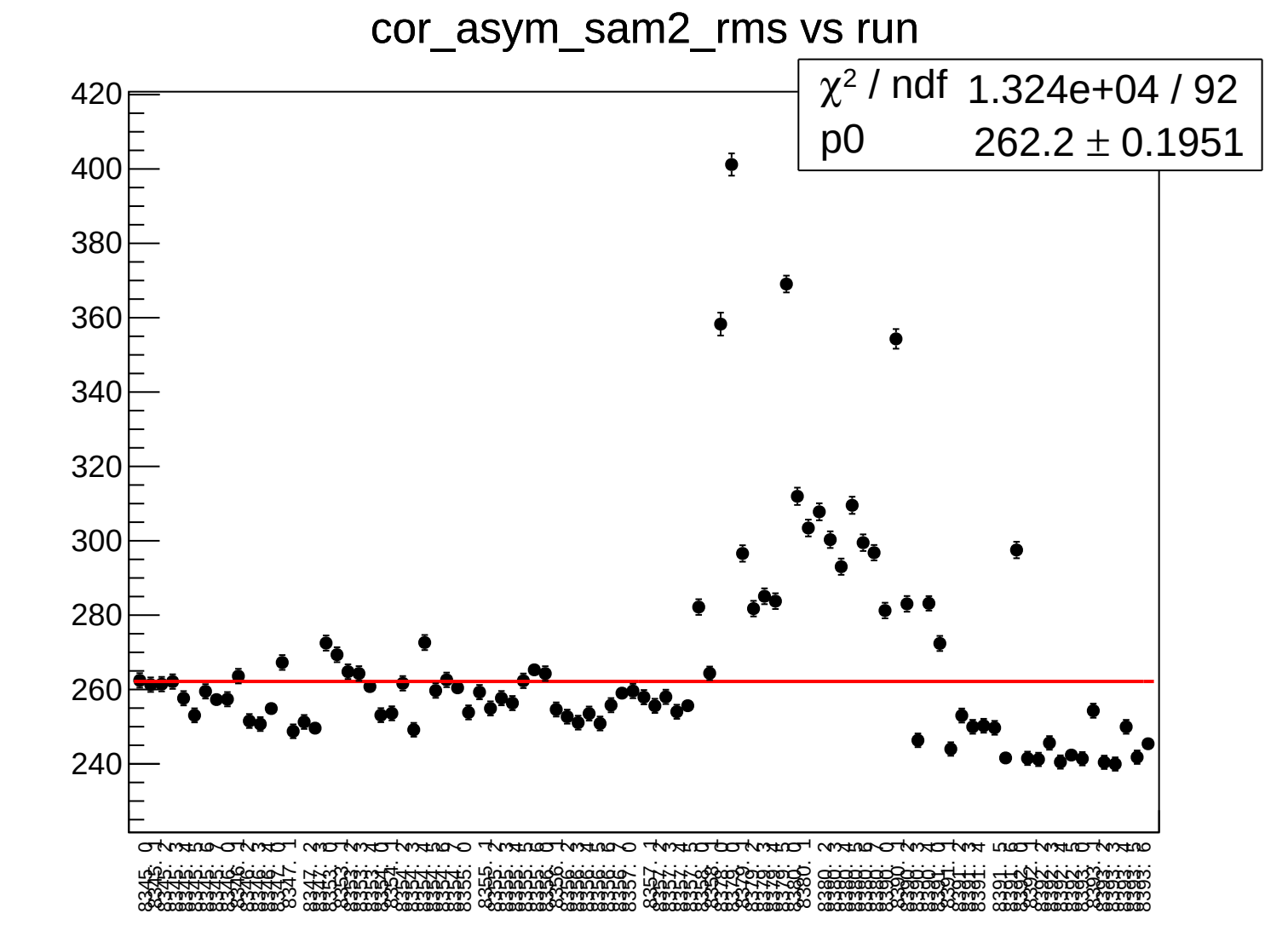

asym_sam2_reg_correction_mean vs run
×10^3
χ² / ndf 109.8 / 92
p0 −1.299e+04 ± 4226
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean −5778
Std Dev 0
3
2
1
0
−1
−2
−3

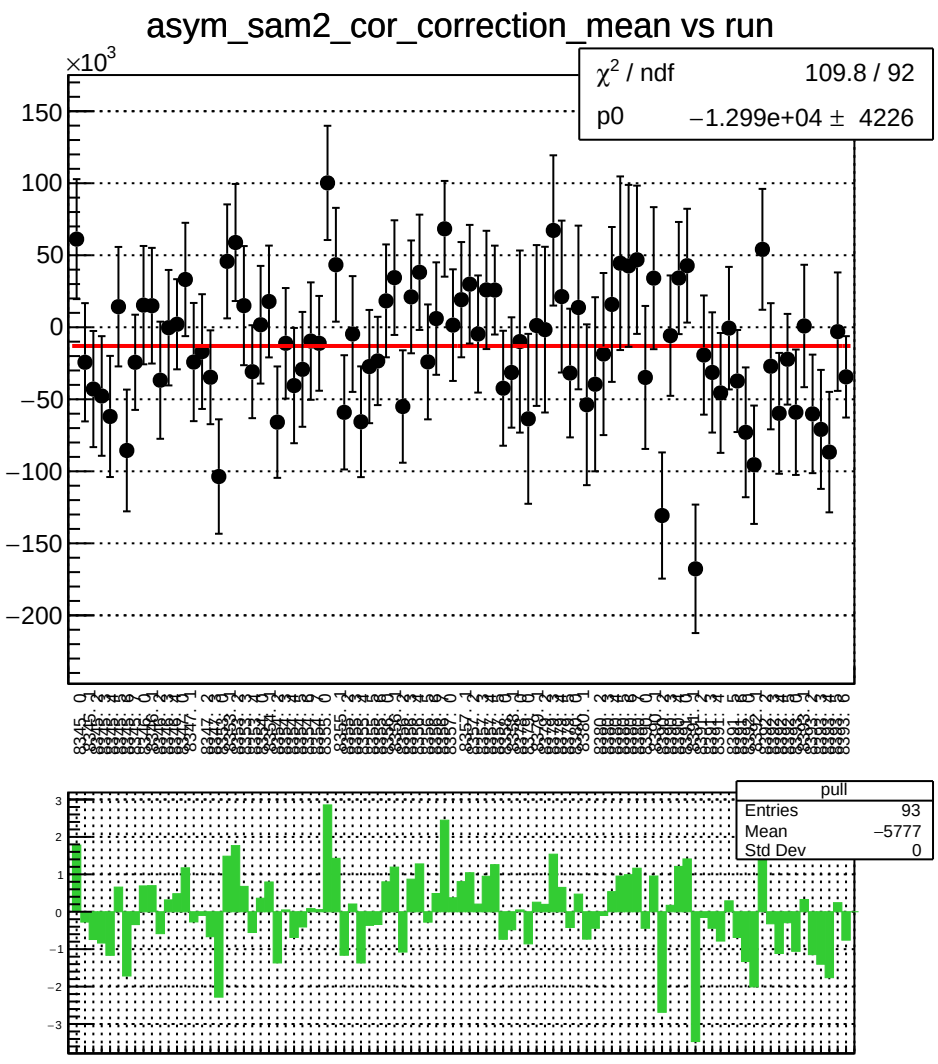

pull1D
Entries 93
Mean 0.00081
Std Dev 1.087
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

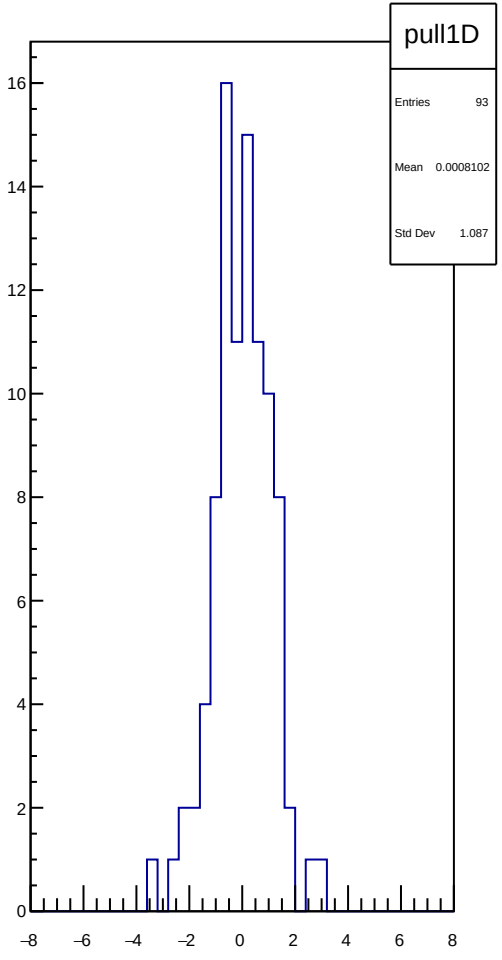

asym_sam2_reg_correction_rms vs run
χ² / ndf 2.132e+04 / 92
p0 4007 ± 2.989
5500
5000
4500
4000
3500

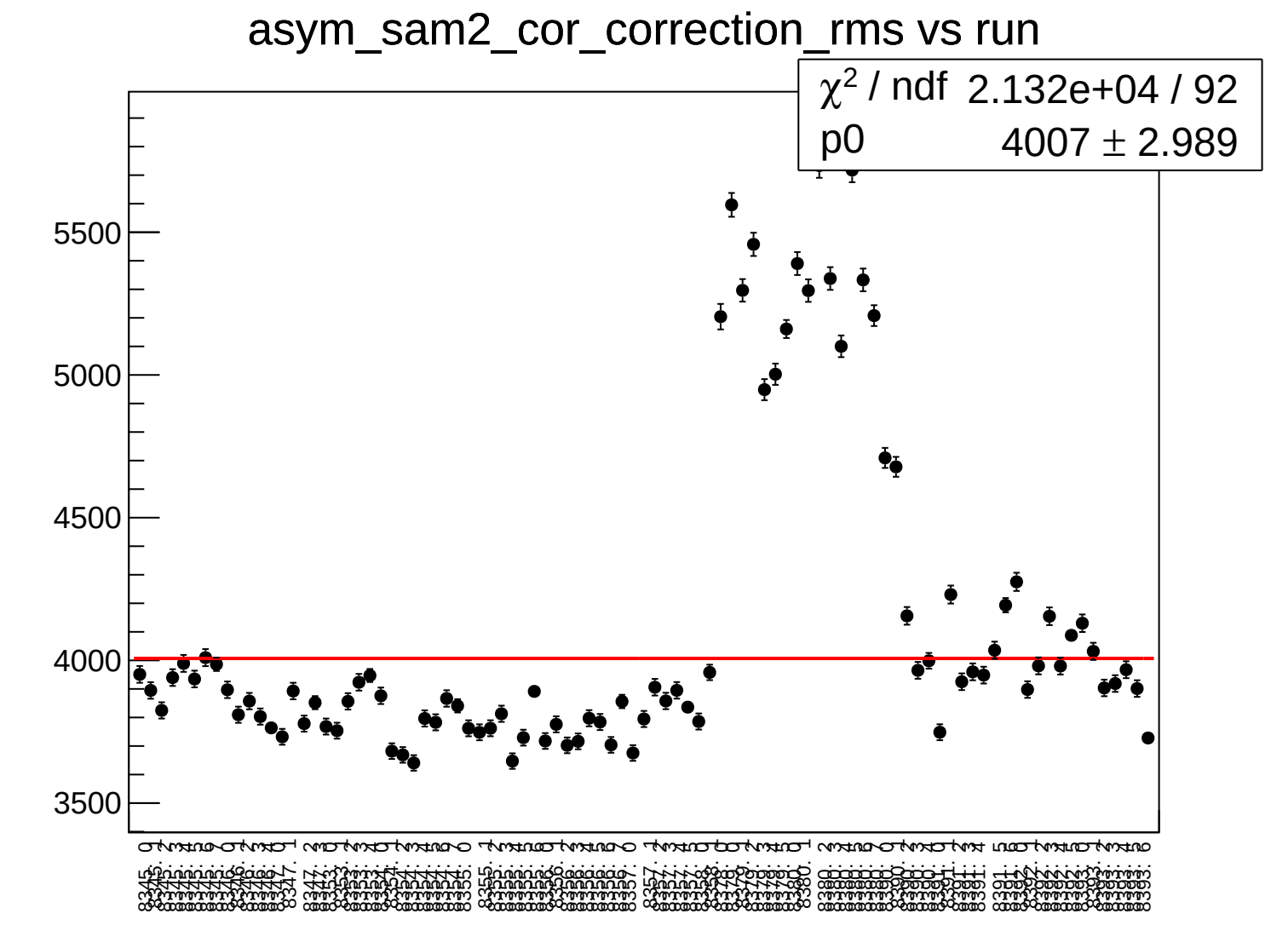

cor_asym_sam2_mean vs run
χ² / ndf 75.87 / 92
p0 12.34 ± 275.9
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −79.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

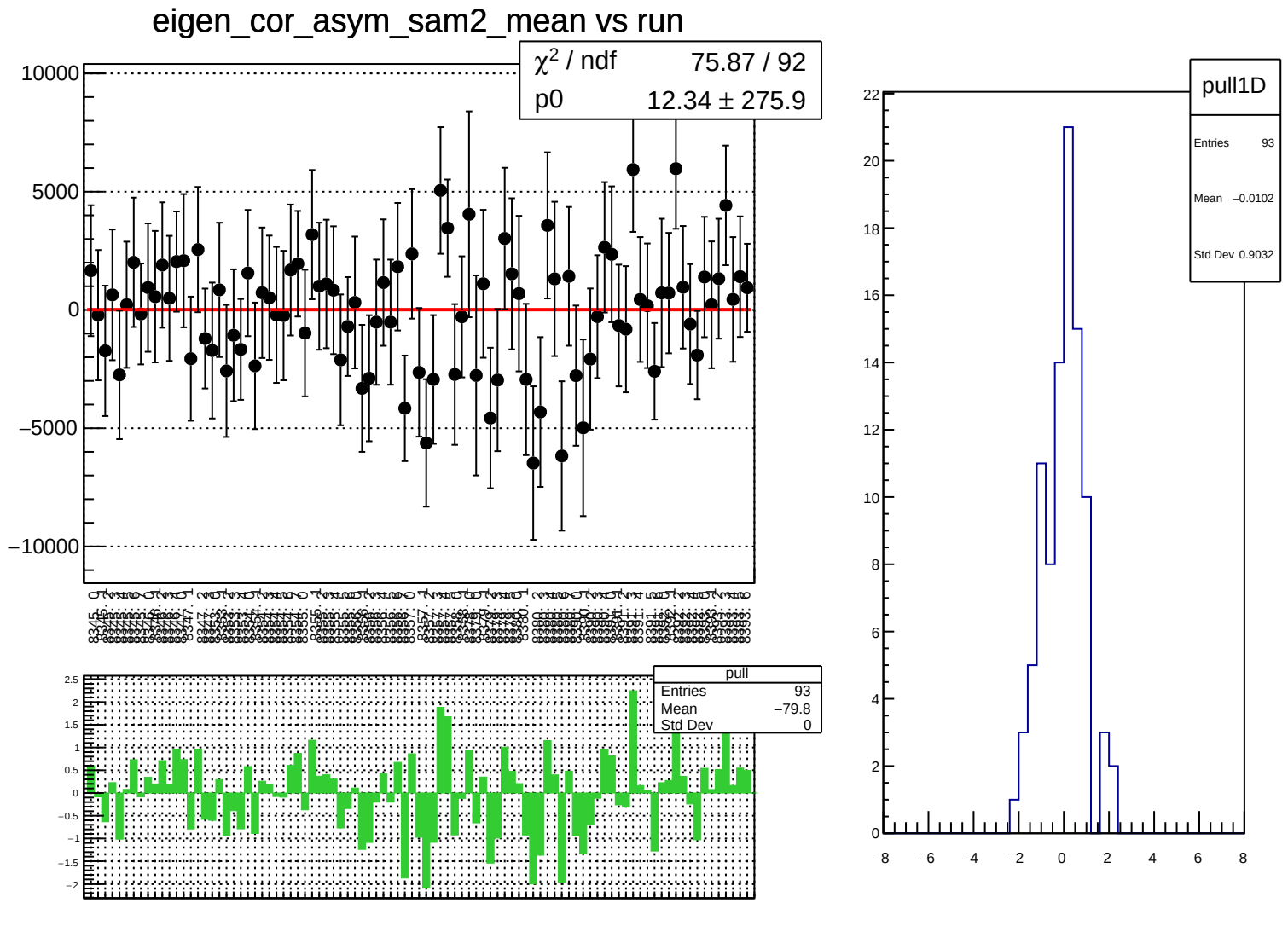

pull1D
Entries 93
Mean −0.0102
Std Dev 0.9032
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

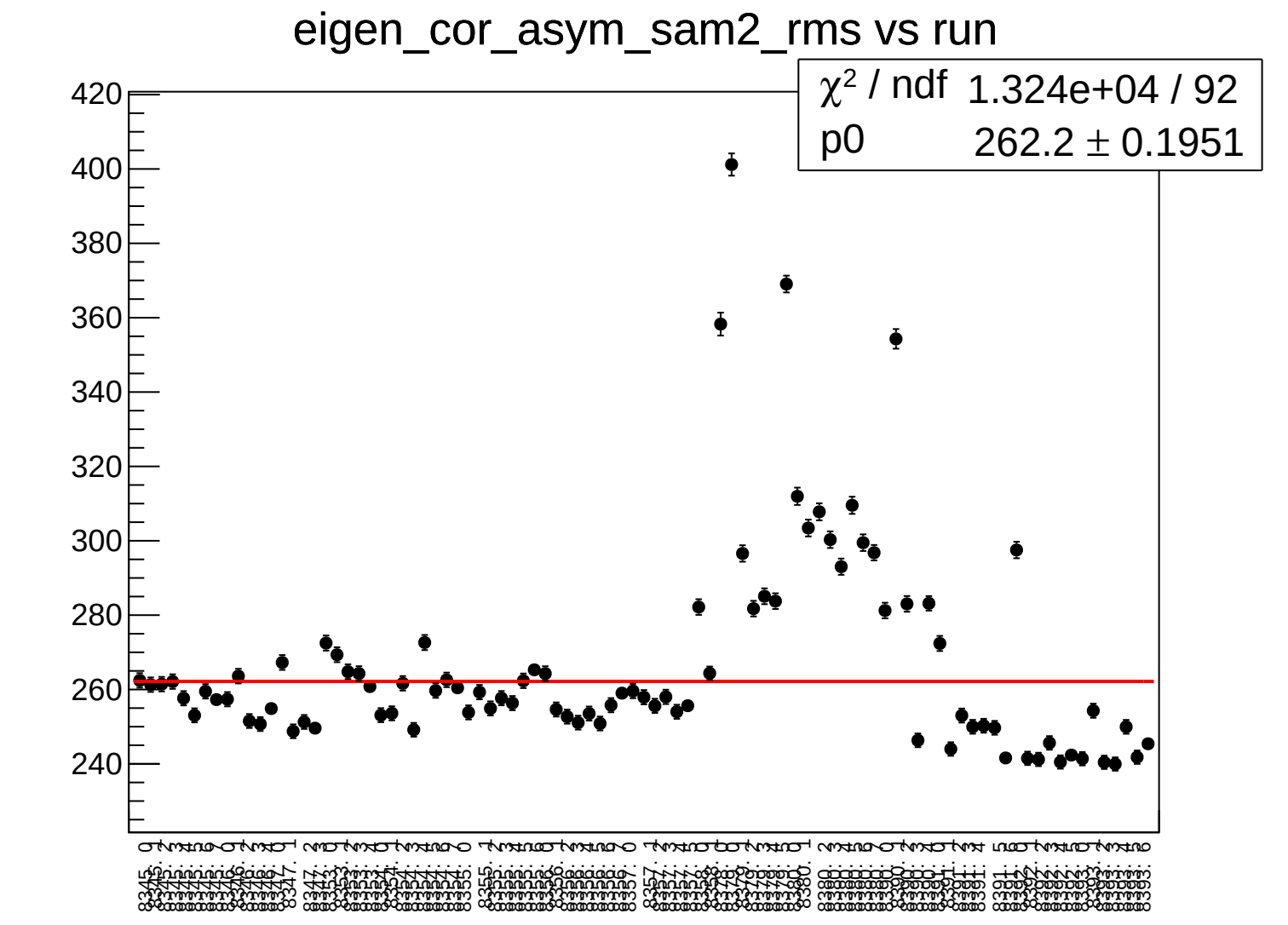

cor_asym_sam2_rms vs run
χ² / ndf 1.324e+04 / 92
p0 262.2 ± 0.1951
420
400
380
360
340
320
300
280
260
240

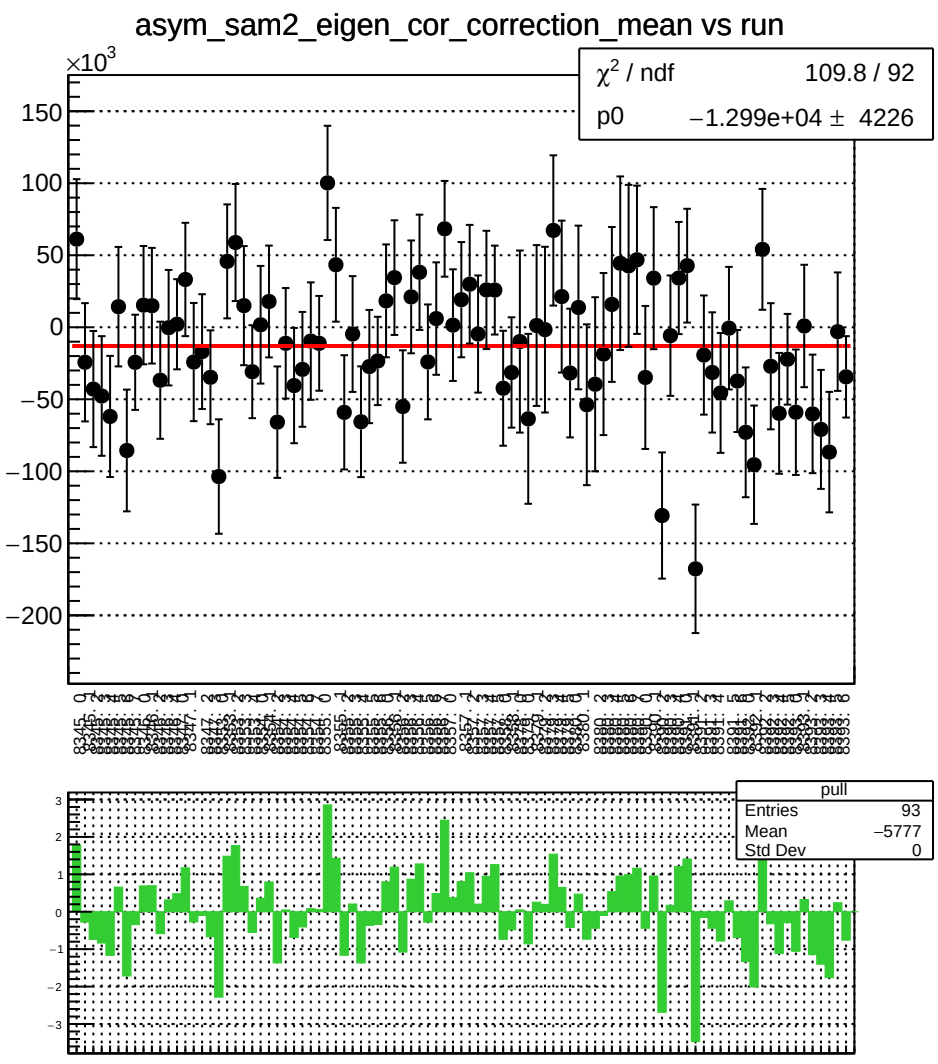

asym_sam2_cor_correction_mean vs run
×10^3
χ² / ndf 109.8 / 92
p0 −1.299e+04 ± 4226
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean −5777
Std Dev 0
3
2
1
0
−1
−2
−3

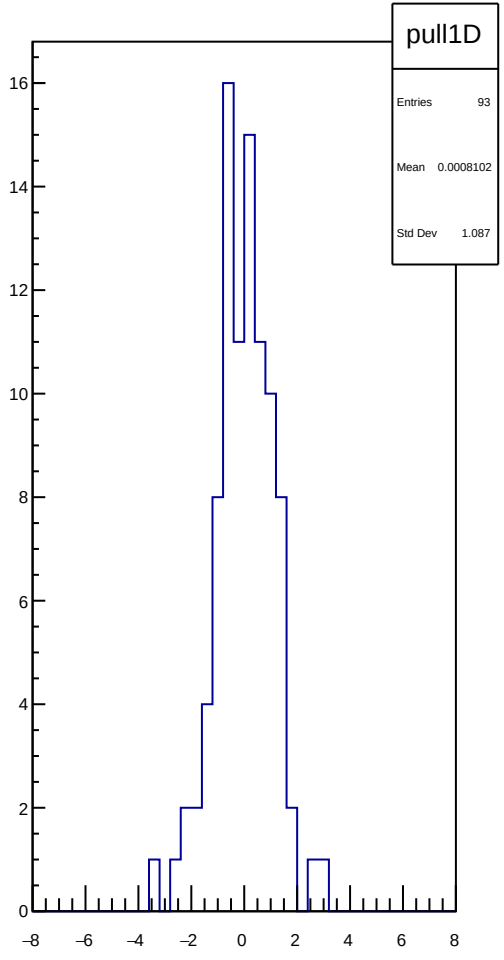

pull1D
Entries 93
Mean 0.0008102
Std Dev 1.087
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

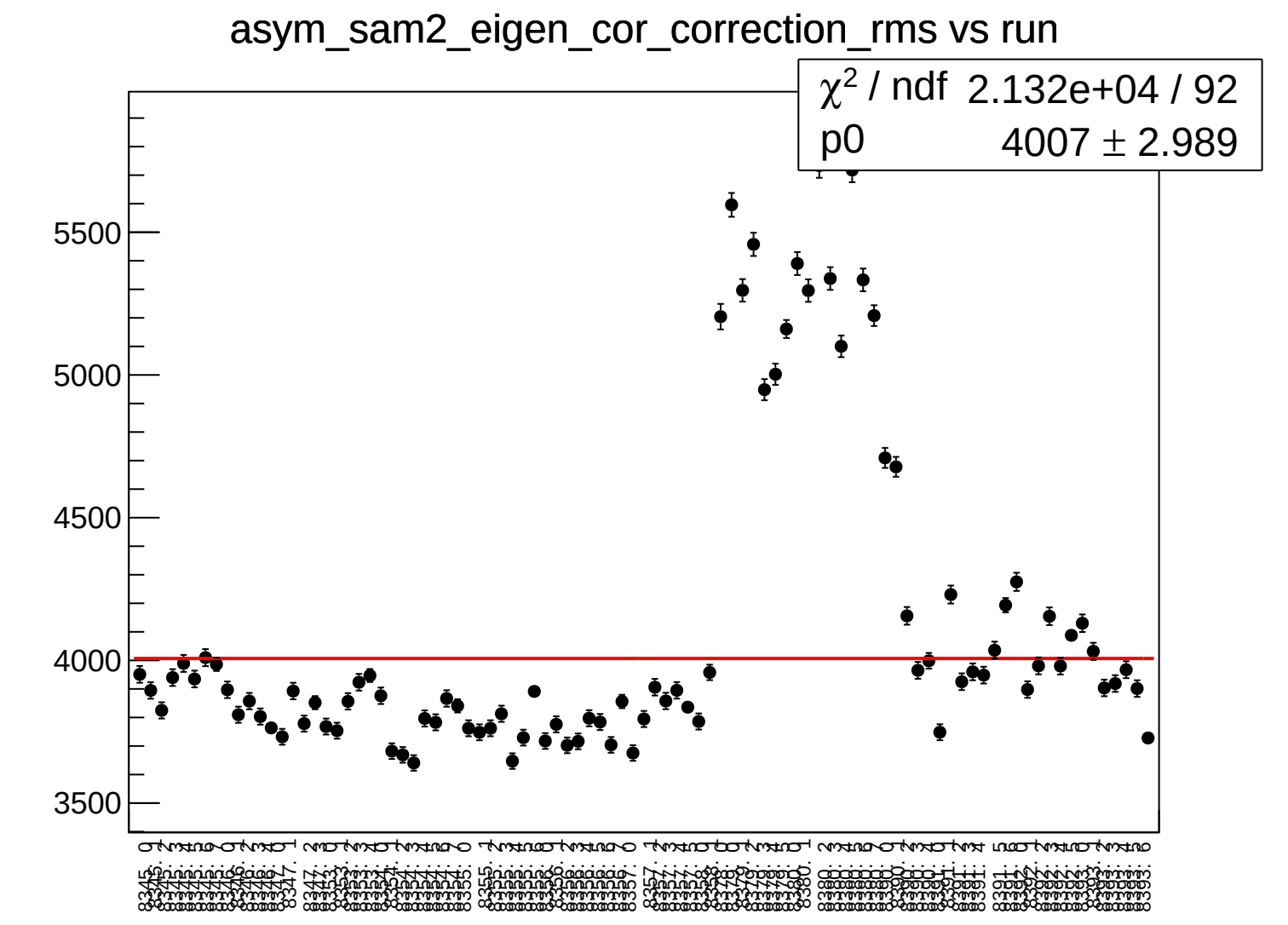

asym_sam2_cor_correction_rms vs run
χ² / ndf 2.132e+04 / 92
p0 4007 ± 2.989
5500
5000
4500
4000
3500

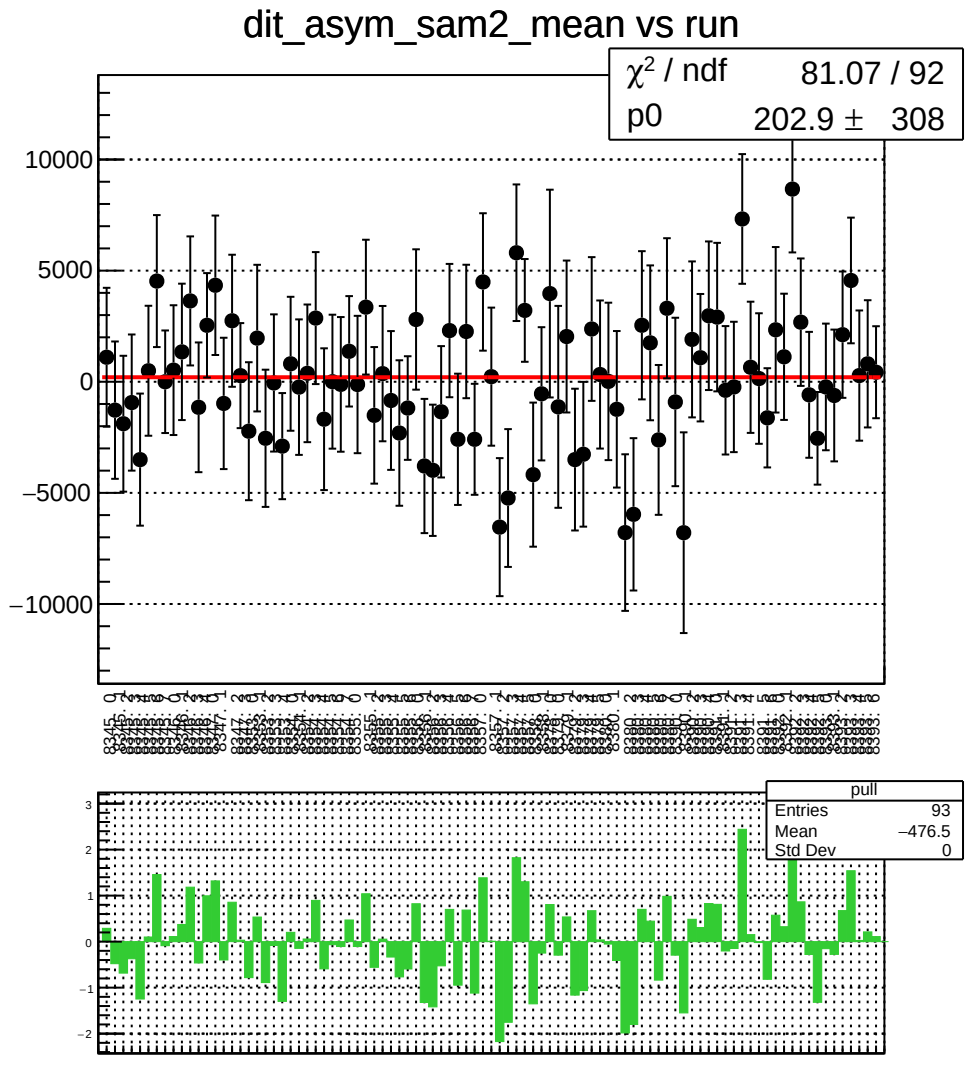

eigen_cor_asym_sam2_mean vs run
χ² / ndf 75.87 / 92
p0 12.34 ± 275.9
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −79.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean −0.0102
Std Dev 0.9032
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

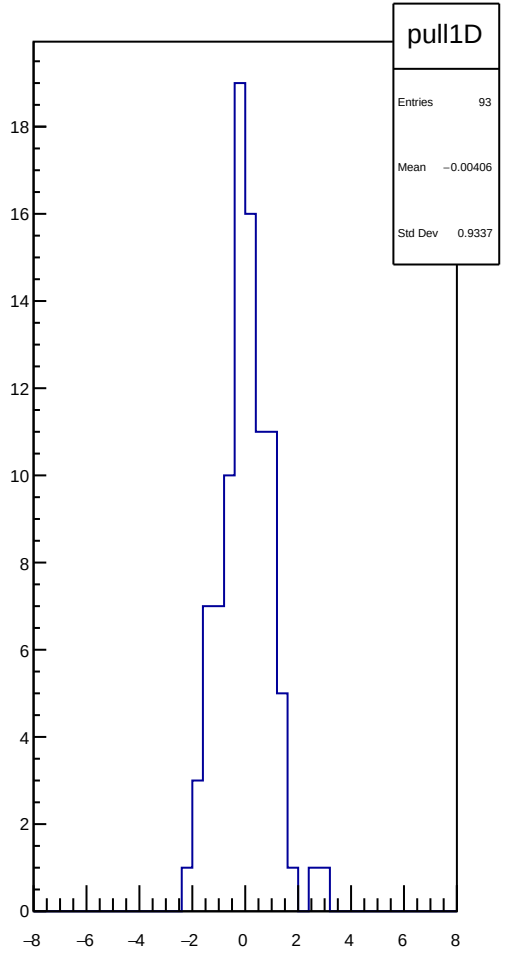

eigen_cor_asym_sam2_rms vs run
χ² / ndf 1.324e+04 / 92
p0 262.2 ± 0.1951
420
400
380
360
340
320
300
280
260
240

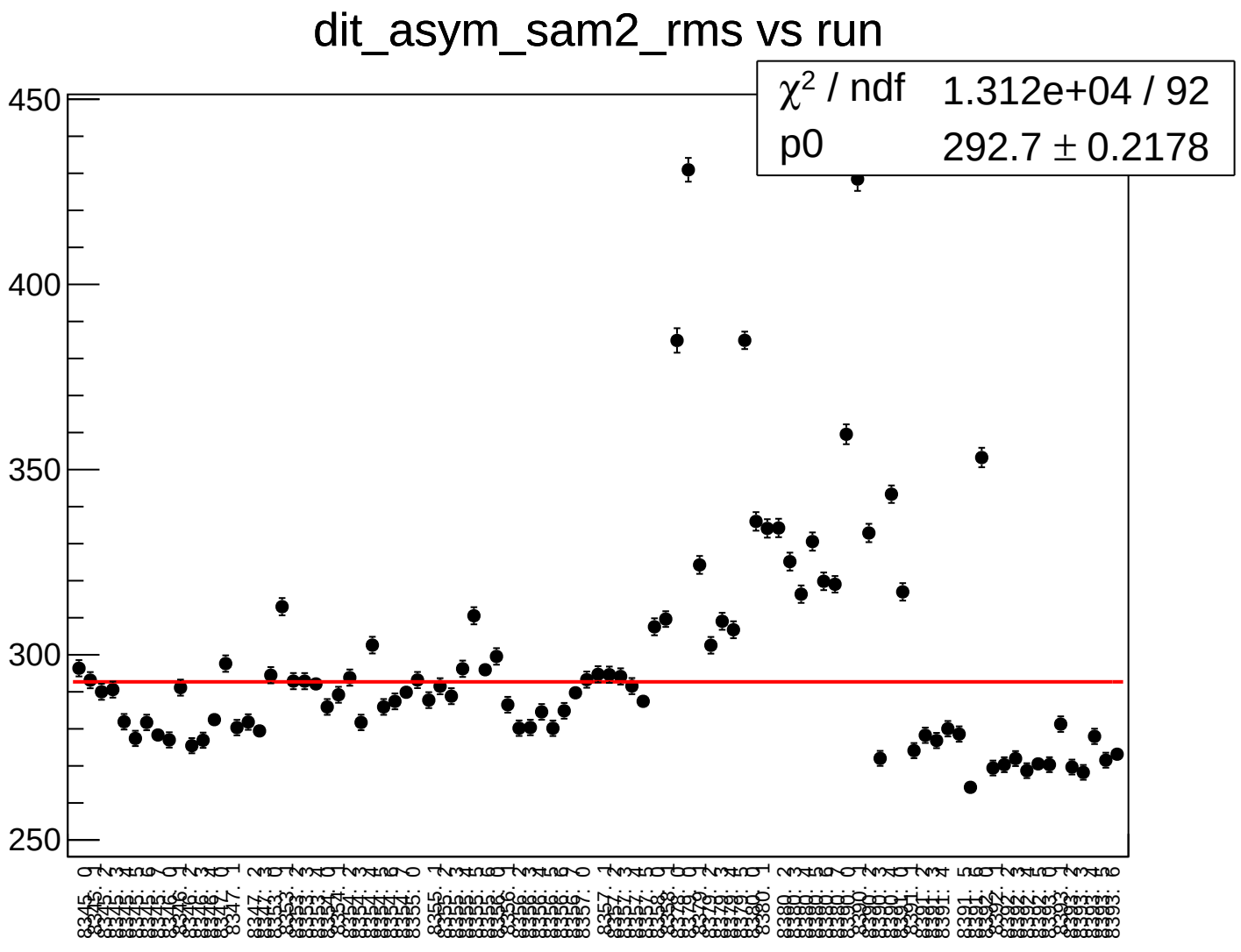

asym_sam2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 109.8 / 92
p0 −1.299e+04 ± 4226
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean −5777
Std Dev 0
3
2
1
0
−1
−2
−3

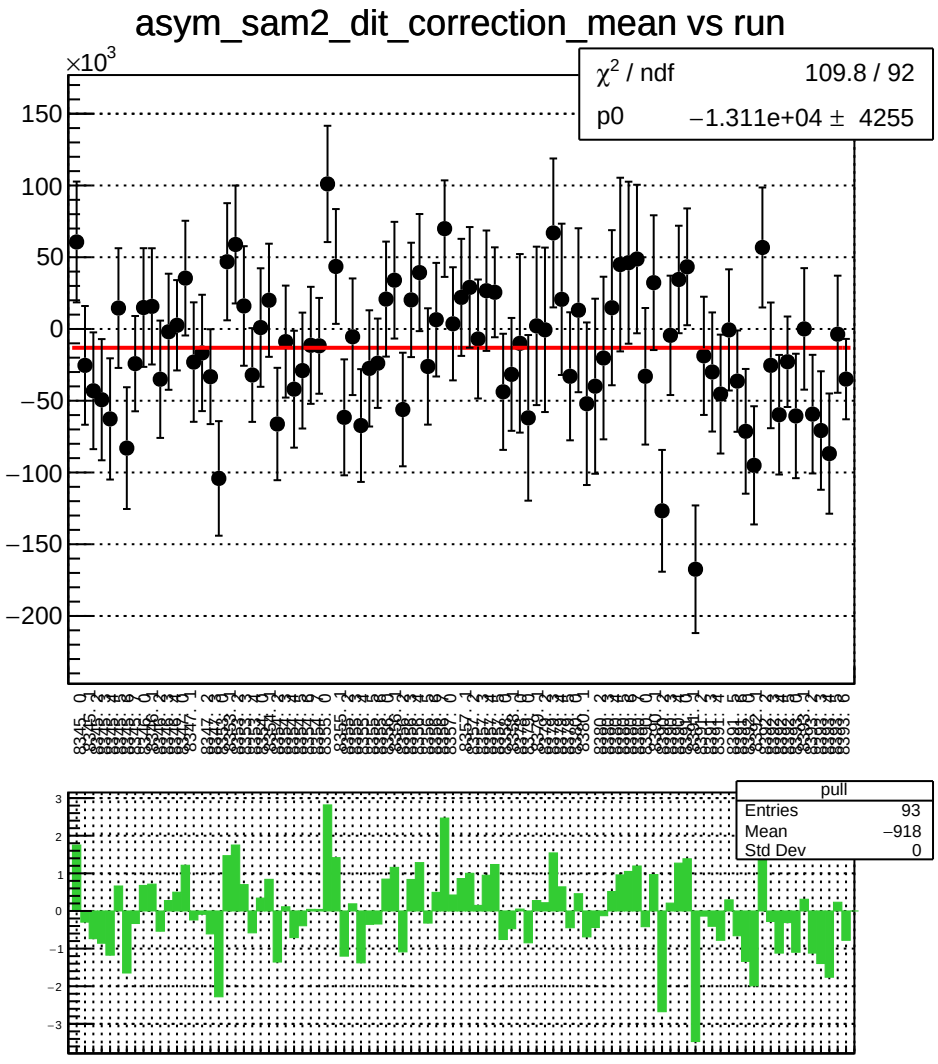

pull1D
Entries 93
Mean 0.0008102
Std Dev 1.087
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

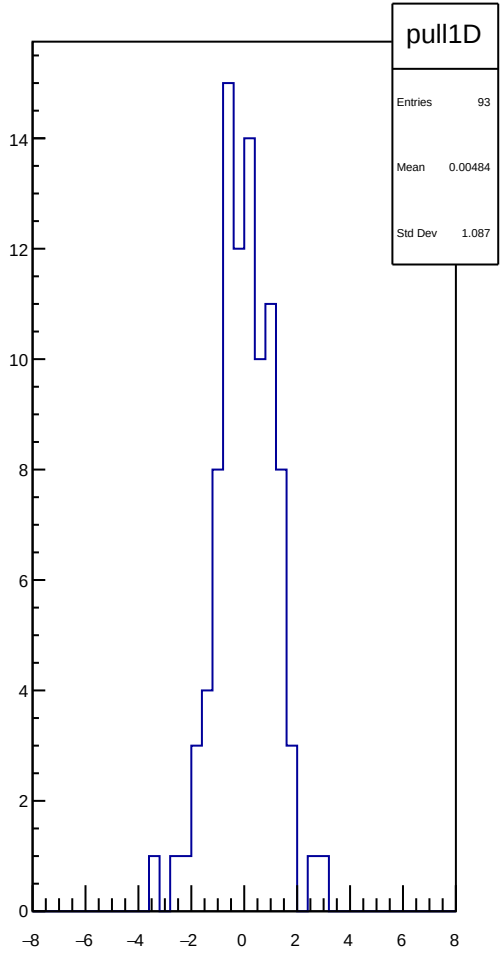

asym_sam2_eigen_cor_correction_rms vs run
χ² / ndf 2.132e+04 / 92
p0 4007 ± 2.989
5500
5000
4500
4000
3500

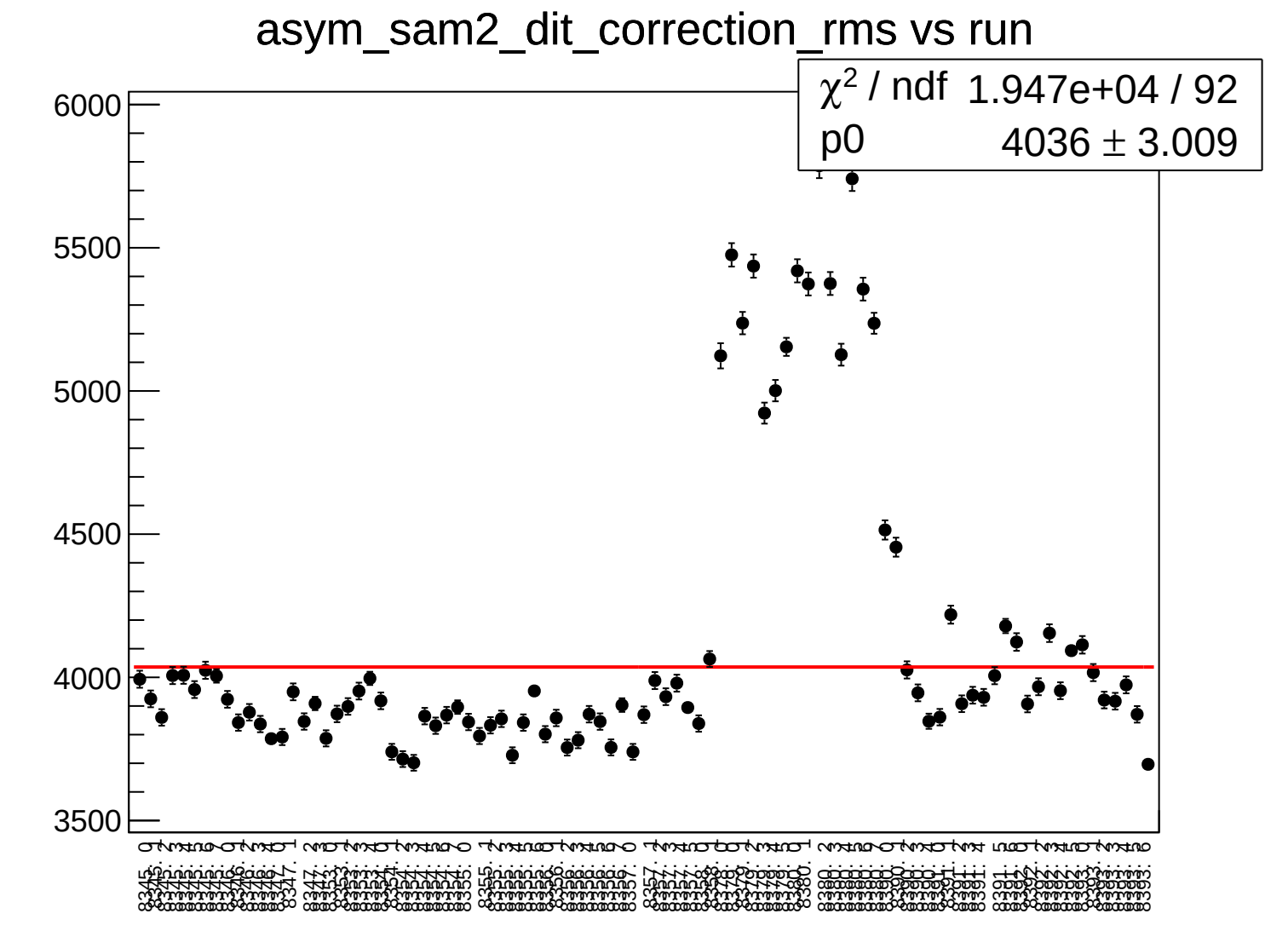

dit_asym_sam2_mean vs run
χ² / ndf 81.07 / 92
p0 202.9 ± 308
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −476.5
Std Dev 0
3
2
1
0
−1
−2

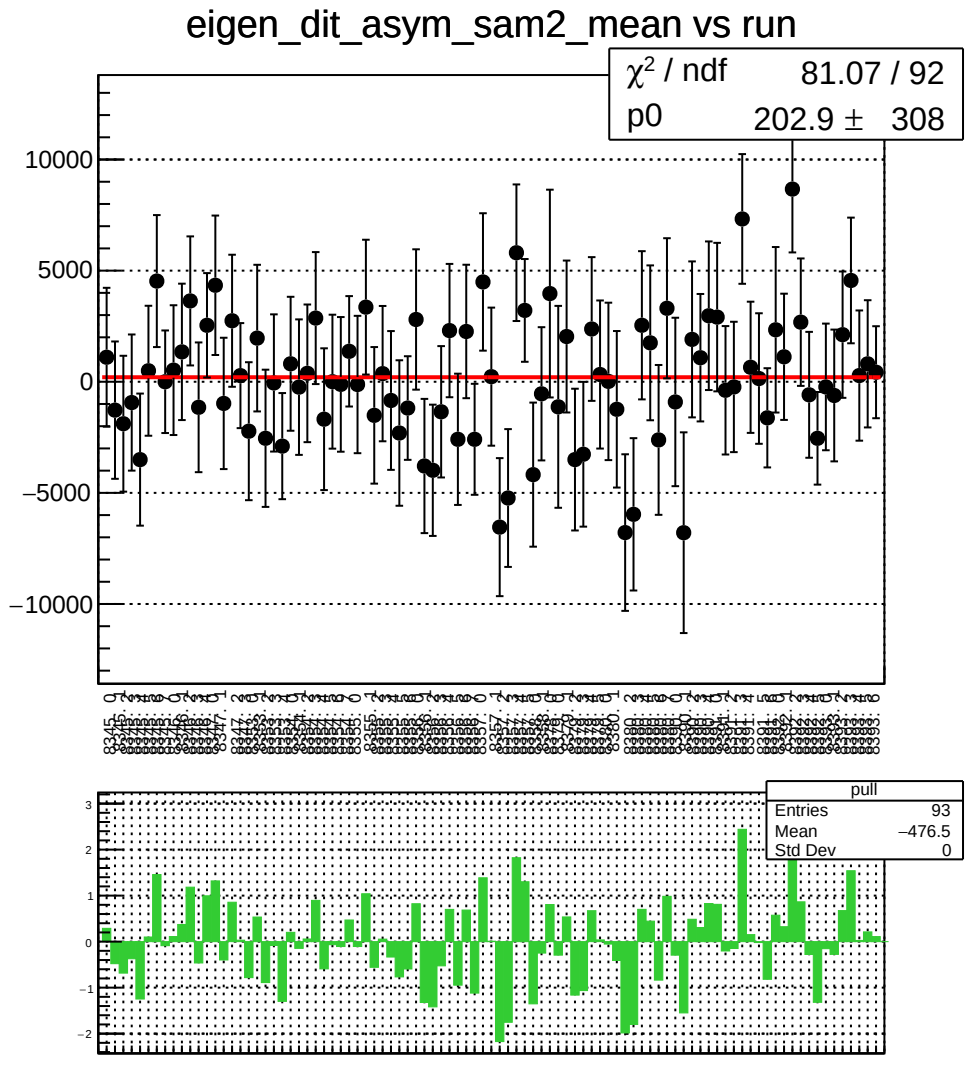

pull1D
Entries 93
Mean −0.00406
Std Dev 0.9337
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

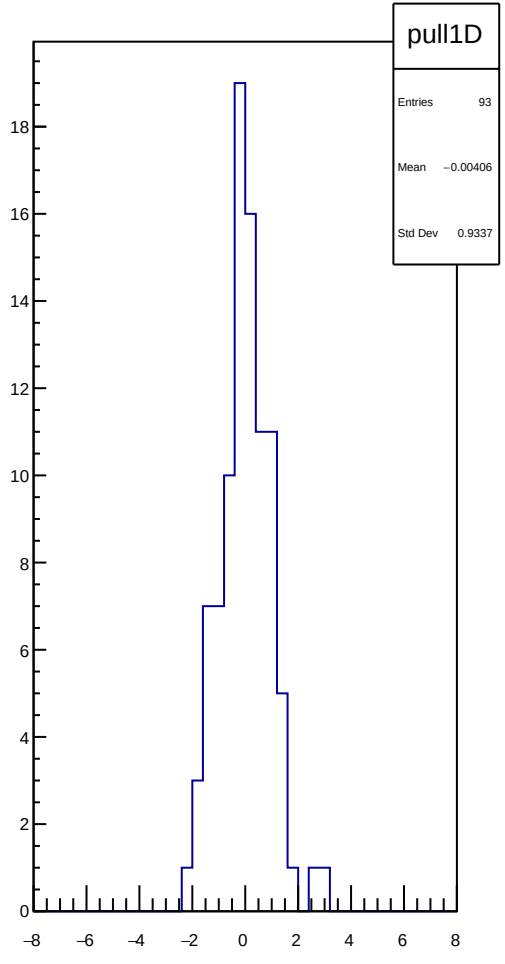

dit_asym_sam2_rms vs run
χ^2 / ndf 1.312e+04 / 92
p0 292.7 ± 0.2178
450
400
350
300
250

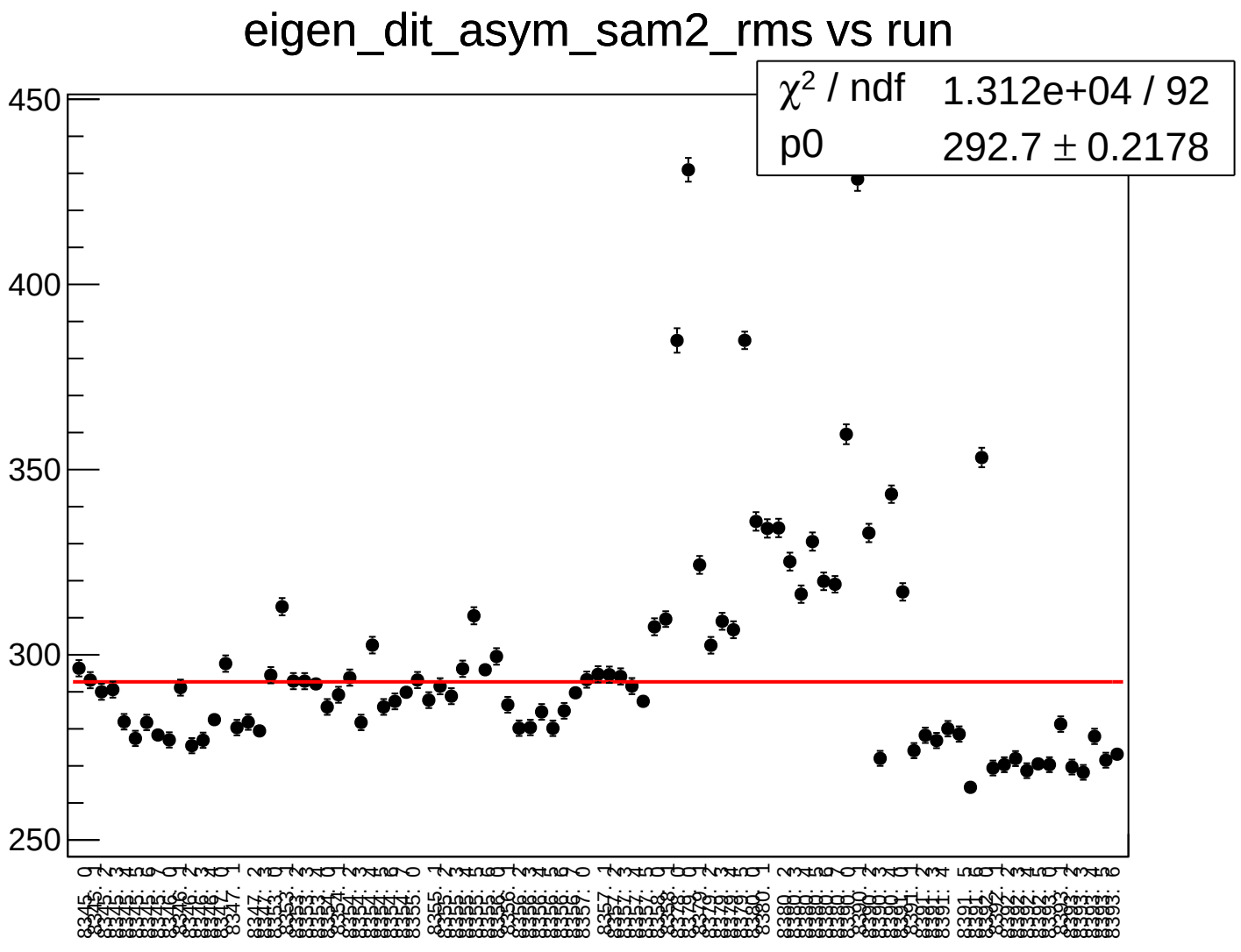

asym_sam2_dit_correction_mean vs run
×10^3
χ² / ndf 109.8 / 92
p0 −1.311e+04 ± 4255
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean −918
Std Dev 0
3
2
1
0
−1
−2
−3

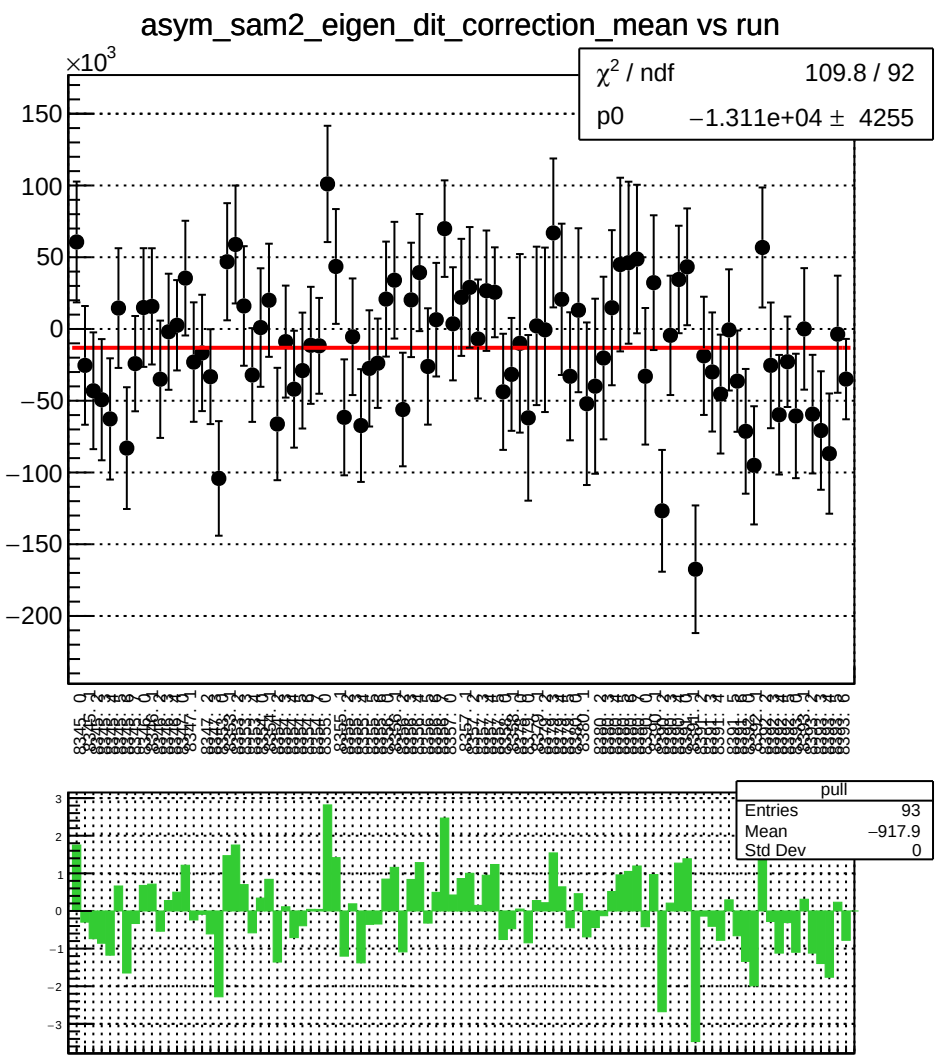

pull1D
Entries 93
Mean 0.00484
Std Dev 1.087
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

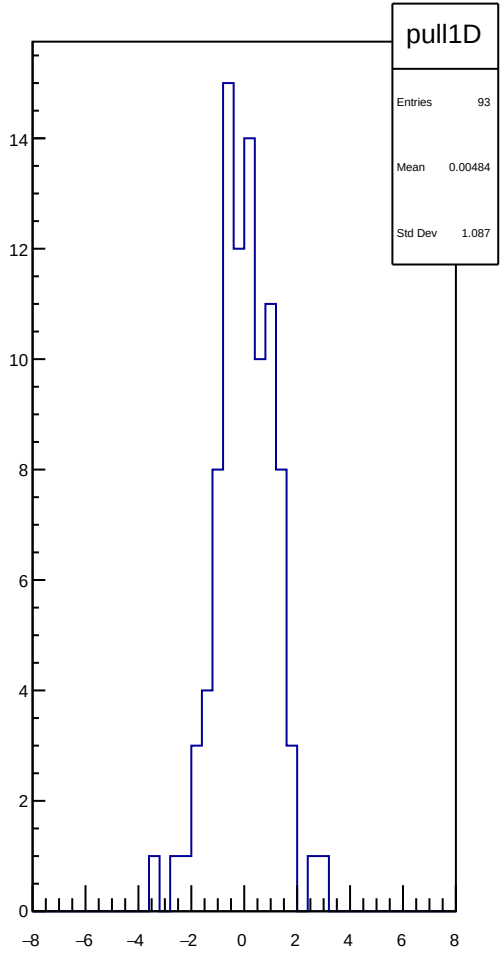

asym_sam2_dit_correction_rms vs run
χ² / ndf 1.947e+04 / 92
p0 4036 ± 3.009
6000
5500
5000
4500
4000
3500

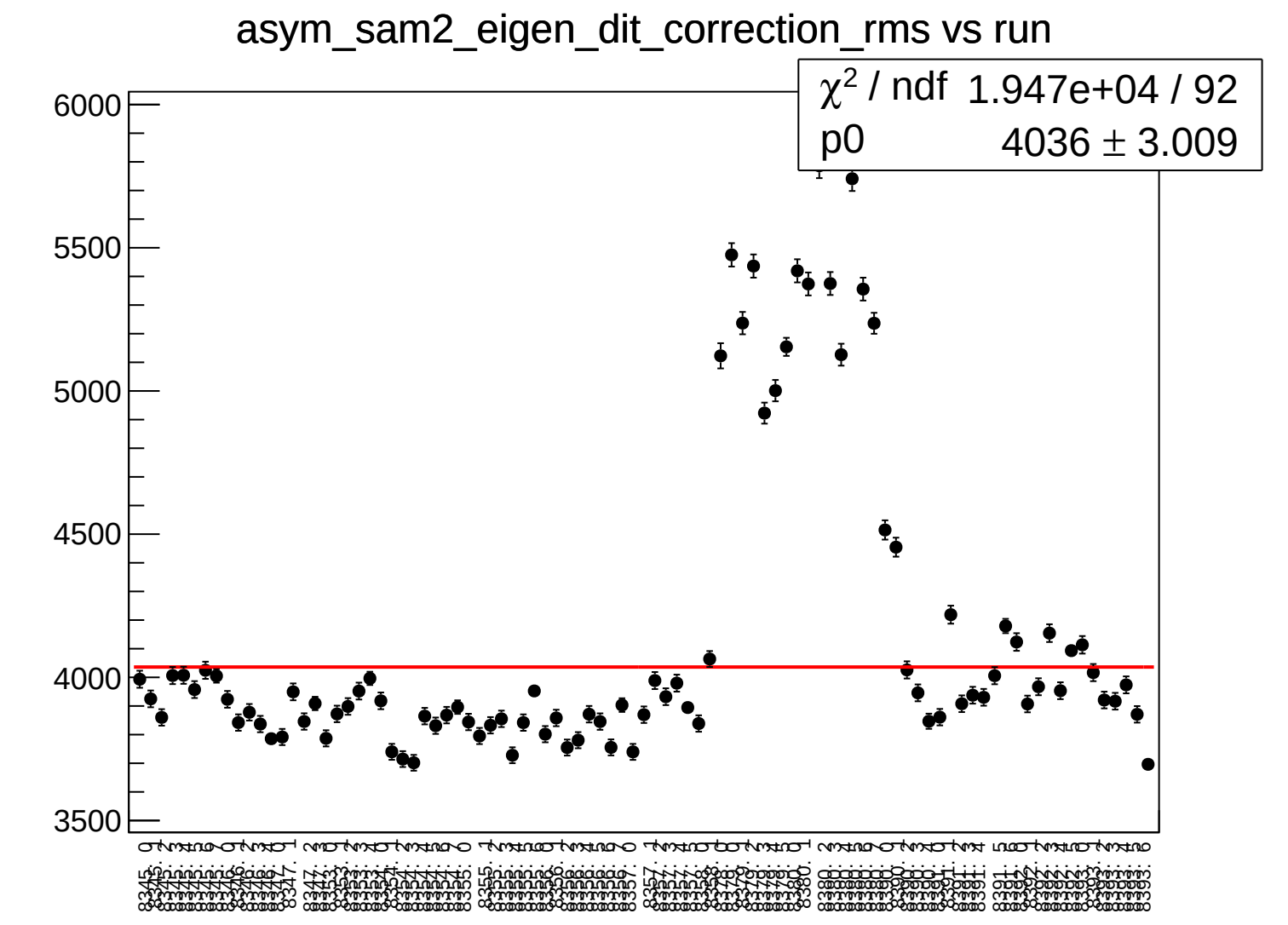

eigen_dit_asym_sam2_mean vs run
χ² / ndf 81.07 / 92
p0 202.9 ± 308
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −476.5
Std Dev 0
3
2
1
0
−1
−2

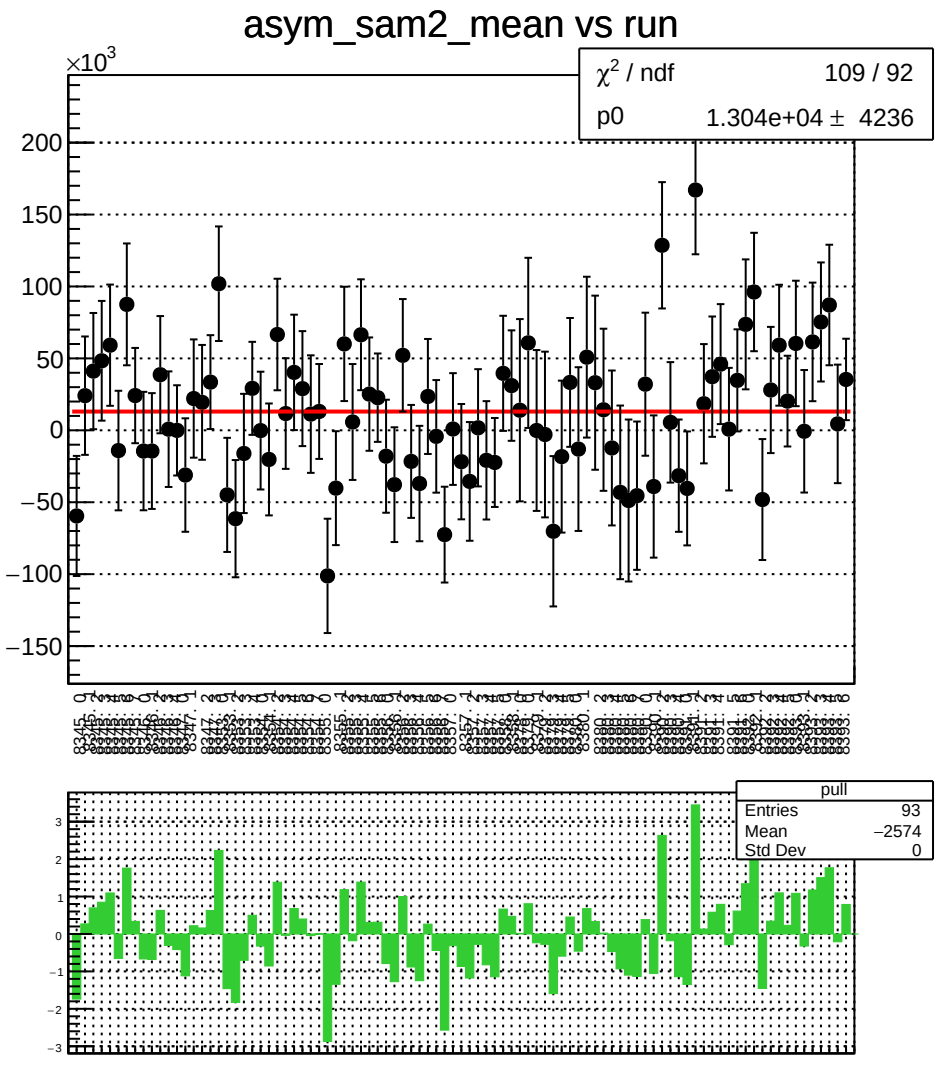

pull1D
Entries 93
Mean −0.00406
Std Dev 0.9337
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

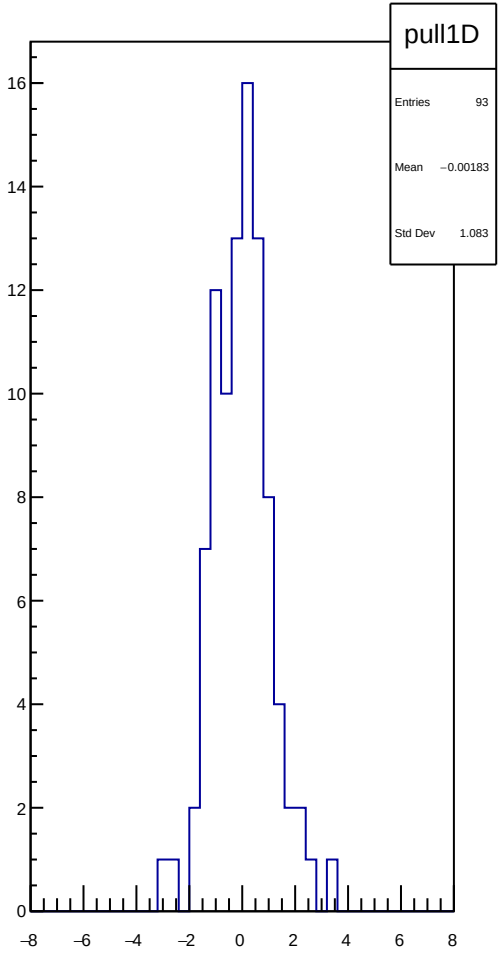

eigen_dit_asym_sam2_rms vs run
χ² / ndf 1.312e+04 / 92
p0 292.7 ± 0.2178
450
400
350
300
250

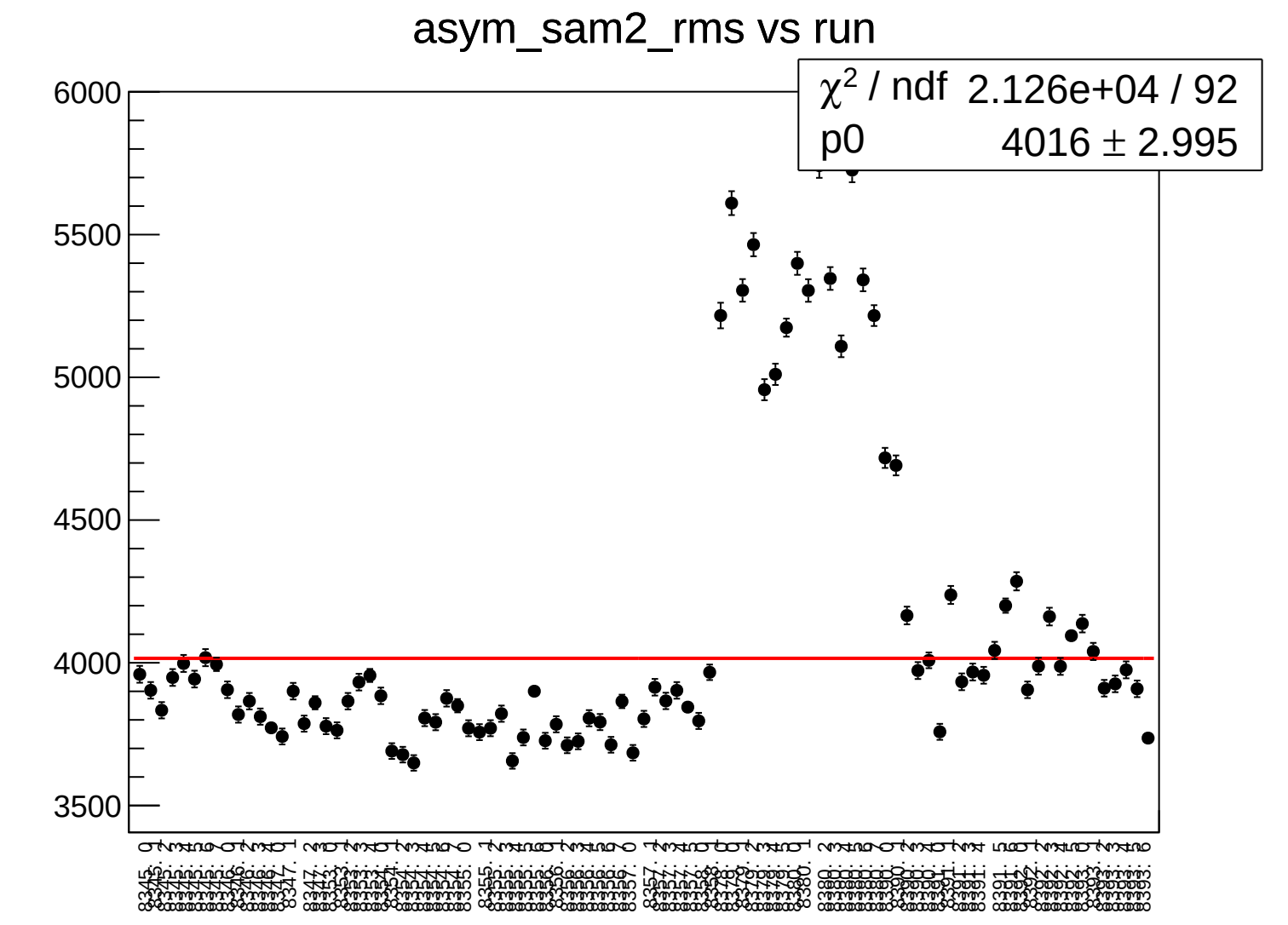

asym_sam2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 109.8 / 92
p0 −1.311e+04 ± 4255
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean −917.9
Std Dev 0
3
2
1
0
−1
−2
−3

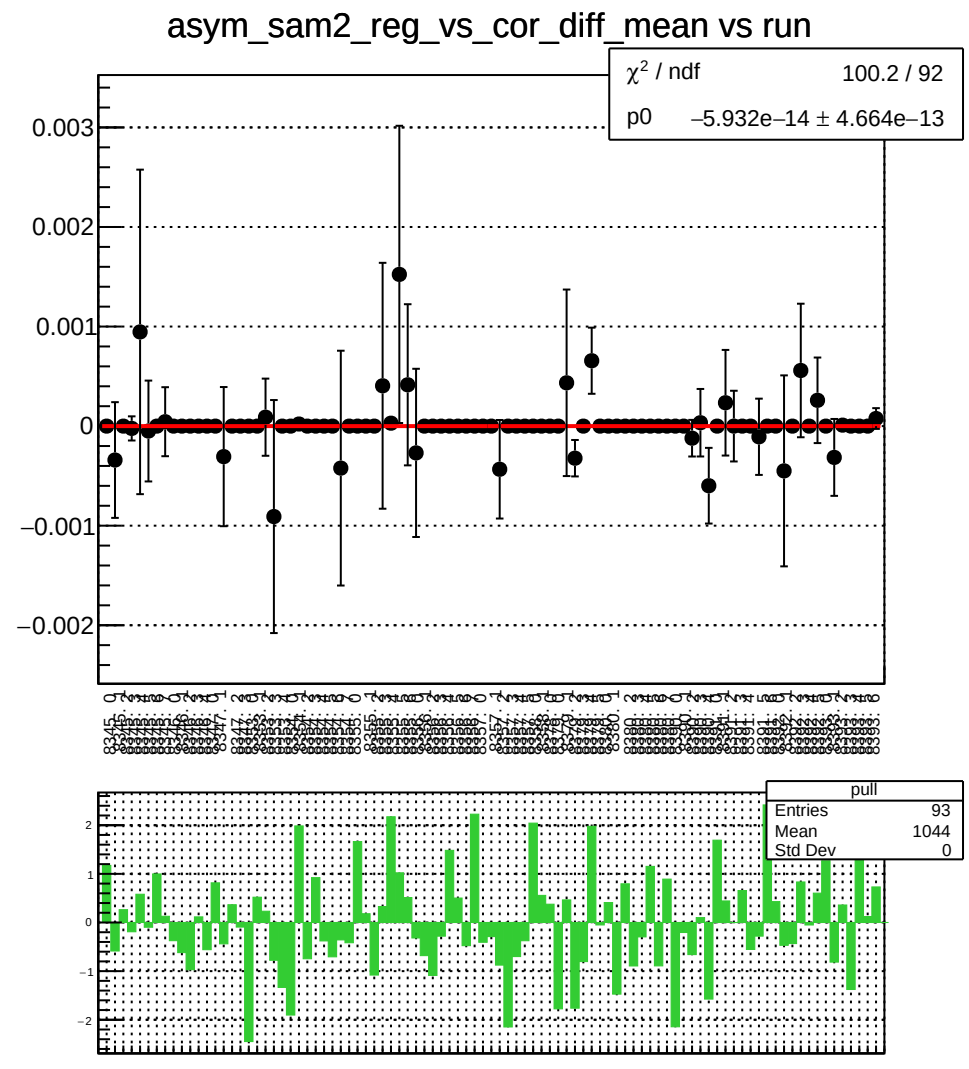

pull1D
Entries 93
Mean 0.00484
Std Dev 1.087
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

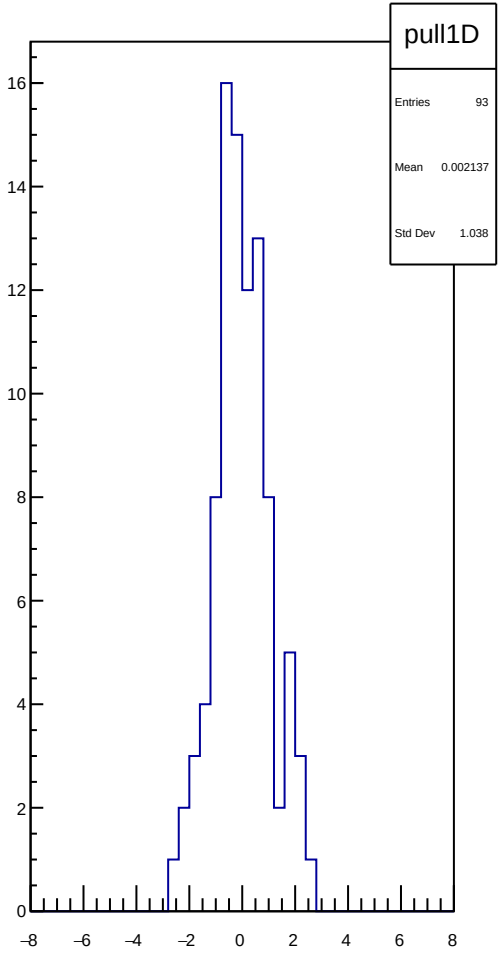

asym_sam2_eigen_dit_correction_rms vs run
χ² / ndf 1.947e+04 / 92
p0 4036 ± 3.009
6000
5500
5000
4500
4000
3500

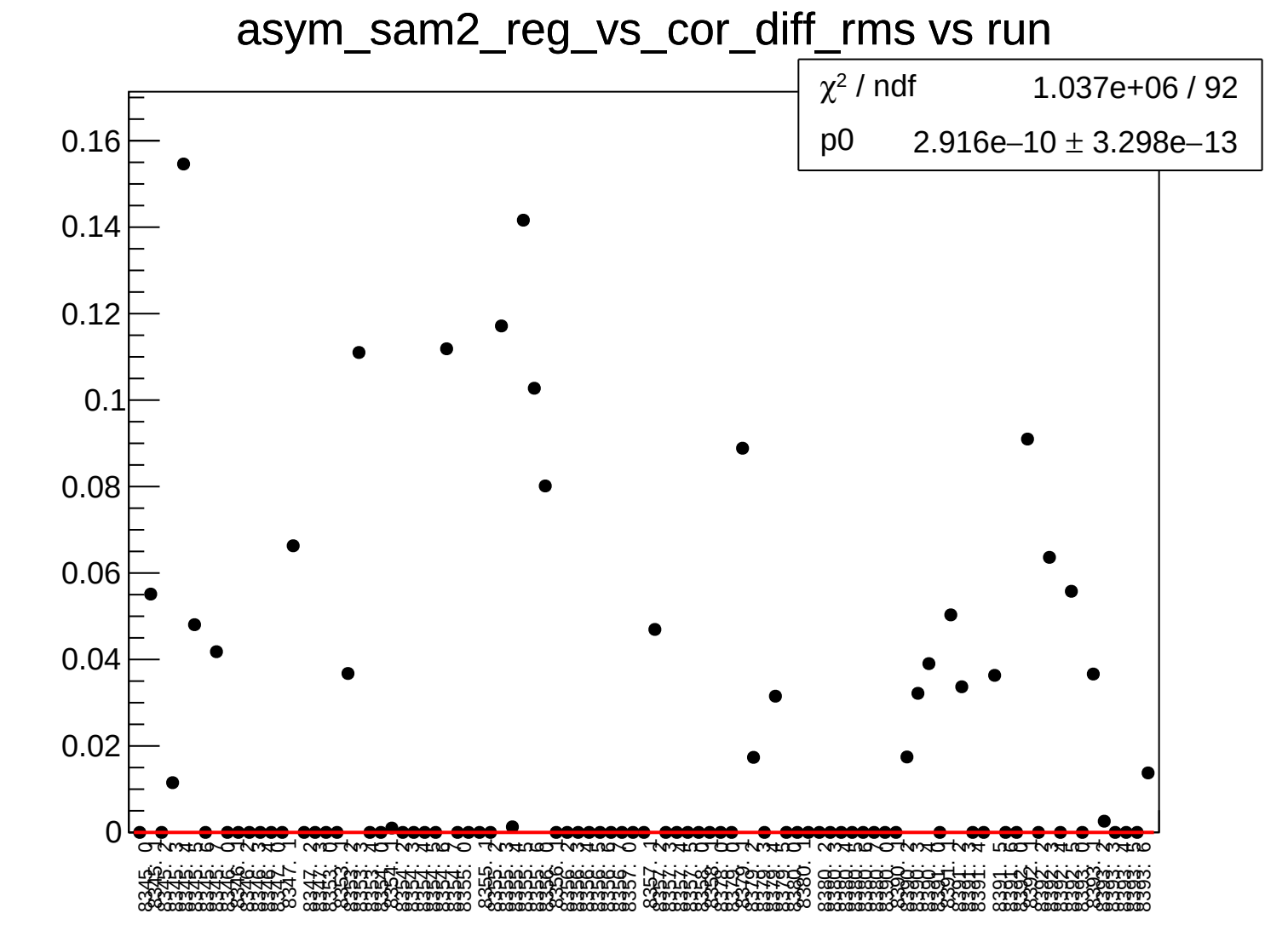

asym_sam2_mean vs run
×10^3
χ² / ndf 109 / 92
p0 1.304e+04 ± 4236
200
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean −2574
Std Dev 0
3
2
1
0
−1
−2
−3

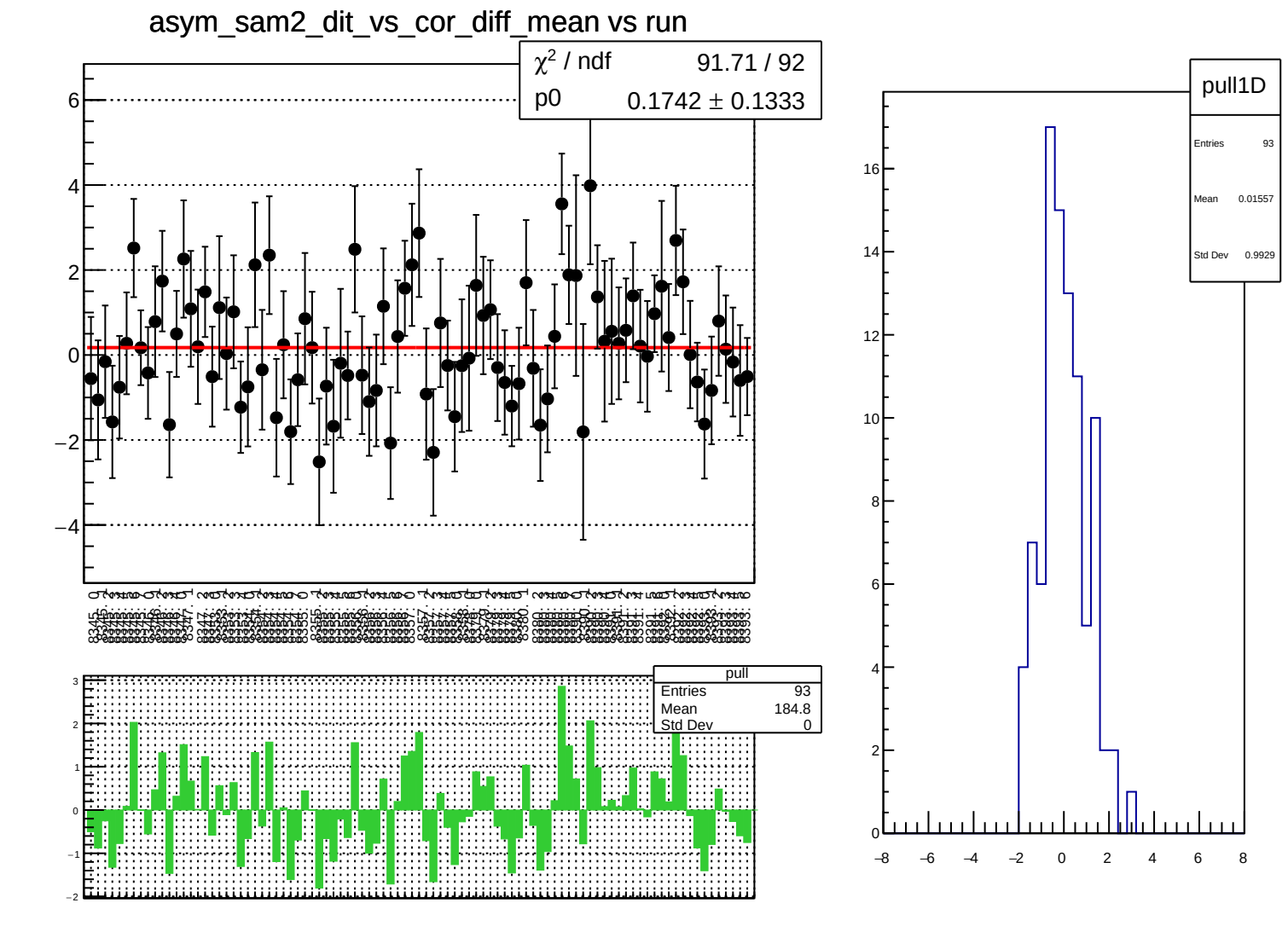

pull1D
Entries 93
Mean −0.00183
Std Dev 1.083
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

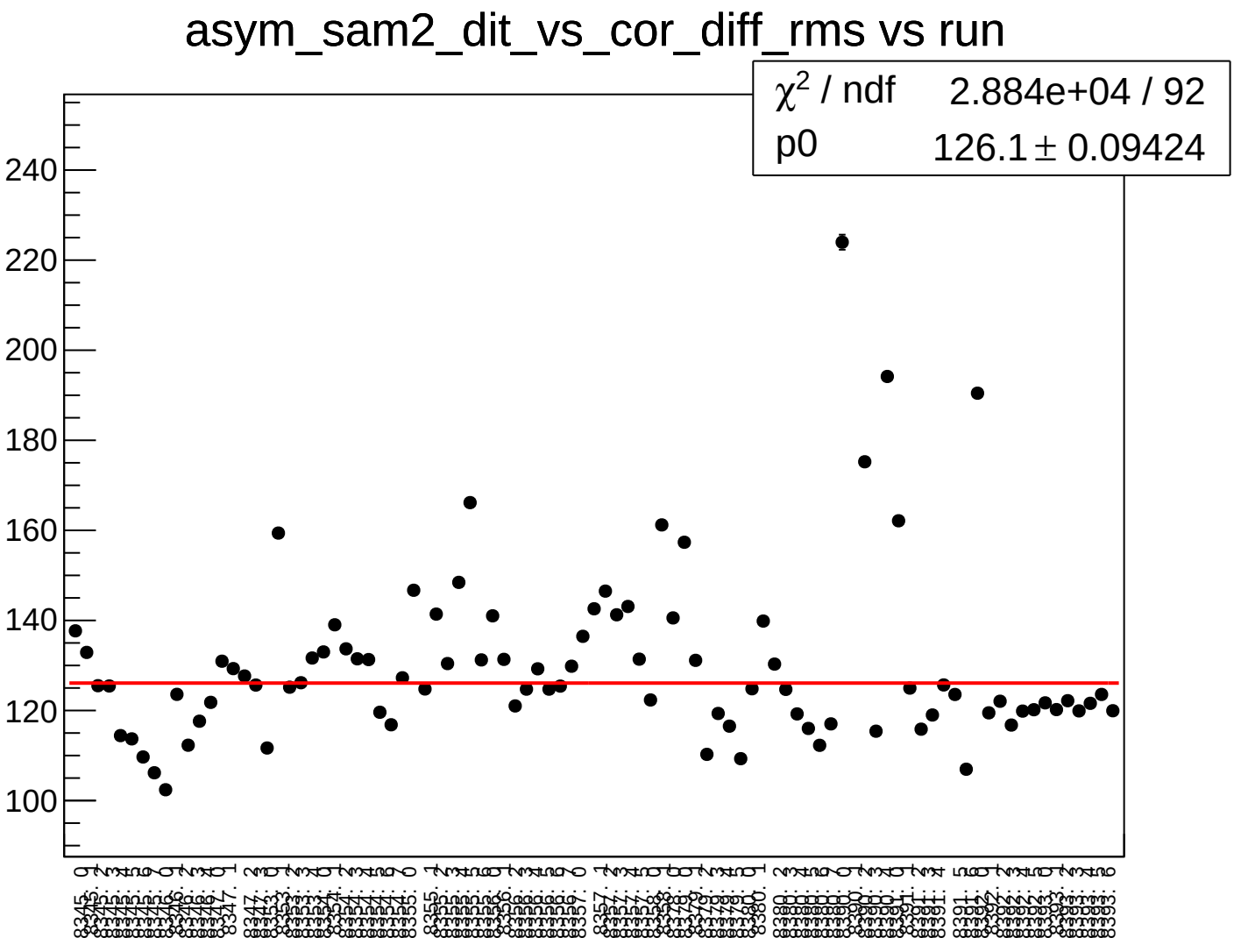

asym_sam2_rms vs run
χ² / ndf 2.126e+04 / 92
p0 4016 ± 2.995
6000
5500
5000
4500
4000
3500

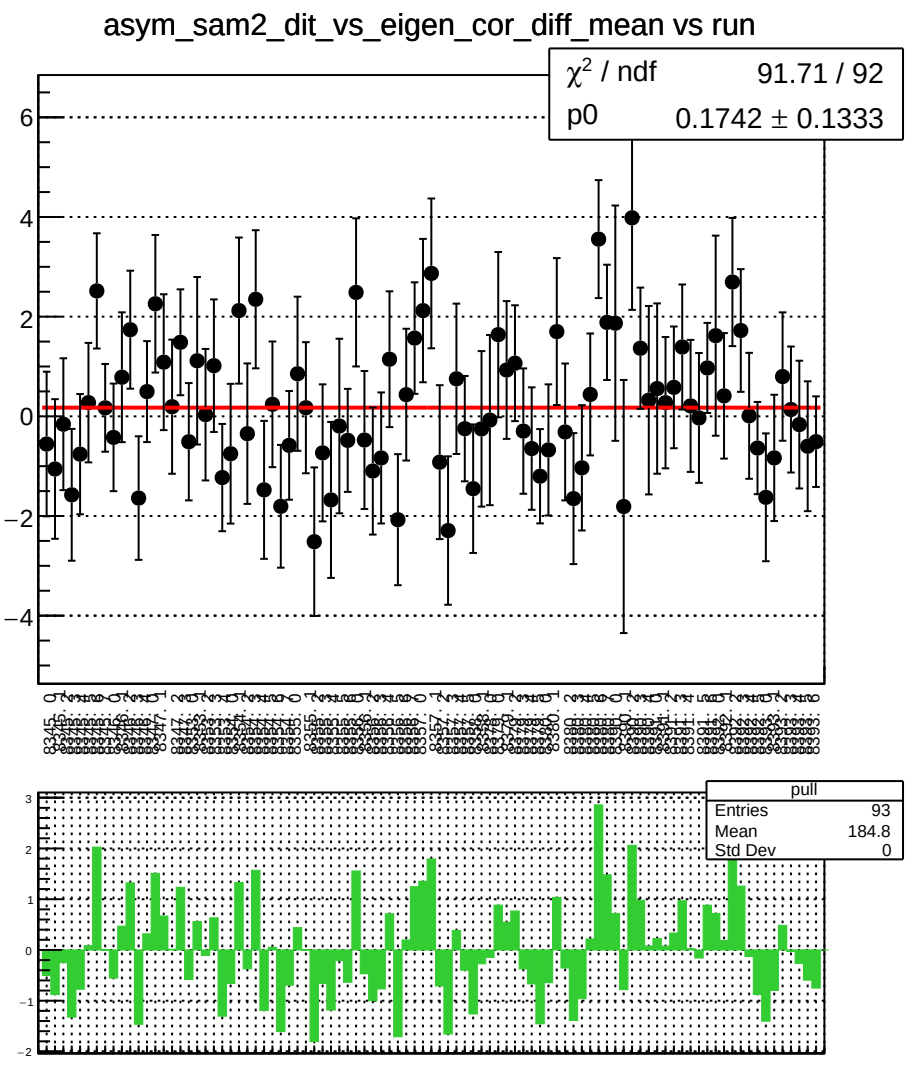

asym_sam2_reg_vs_cor_diff_mean vs run
χ² / ndf 100.2 / 92
p0 −5.932e−14 ± 4.664e−13
0.003
0.002
0.001
0
−0.001
−0.002
pull
Entries 93
Mean 1044
Std Dev 0
2
1
0
−1
−2

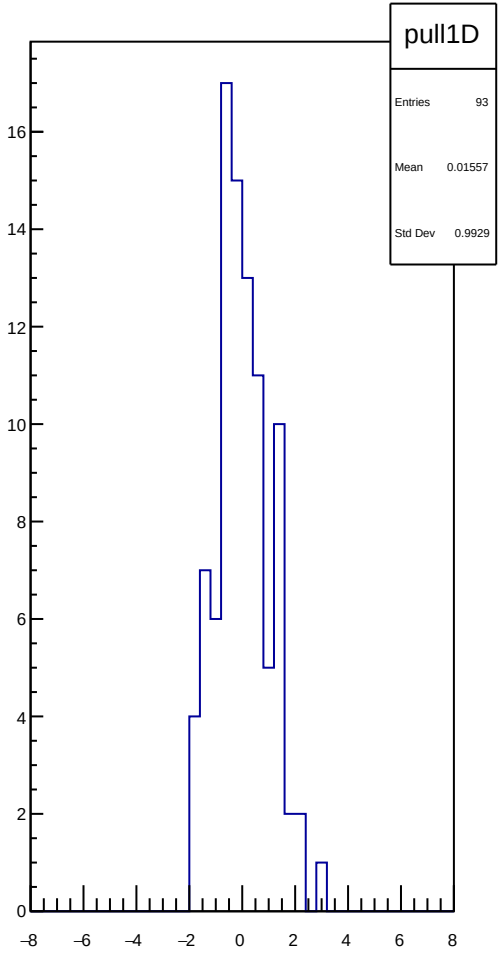

pull1D
Entries 93
Mean 0.002137
Std Dev 1.038
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

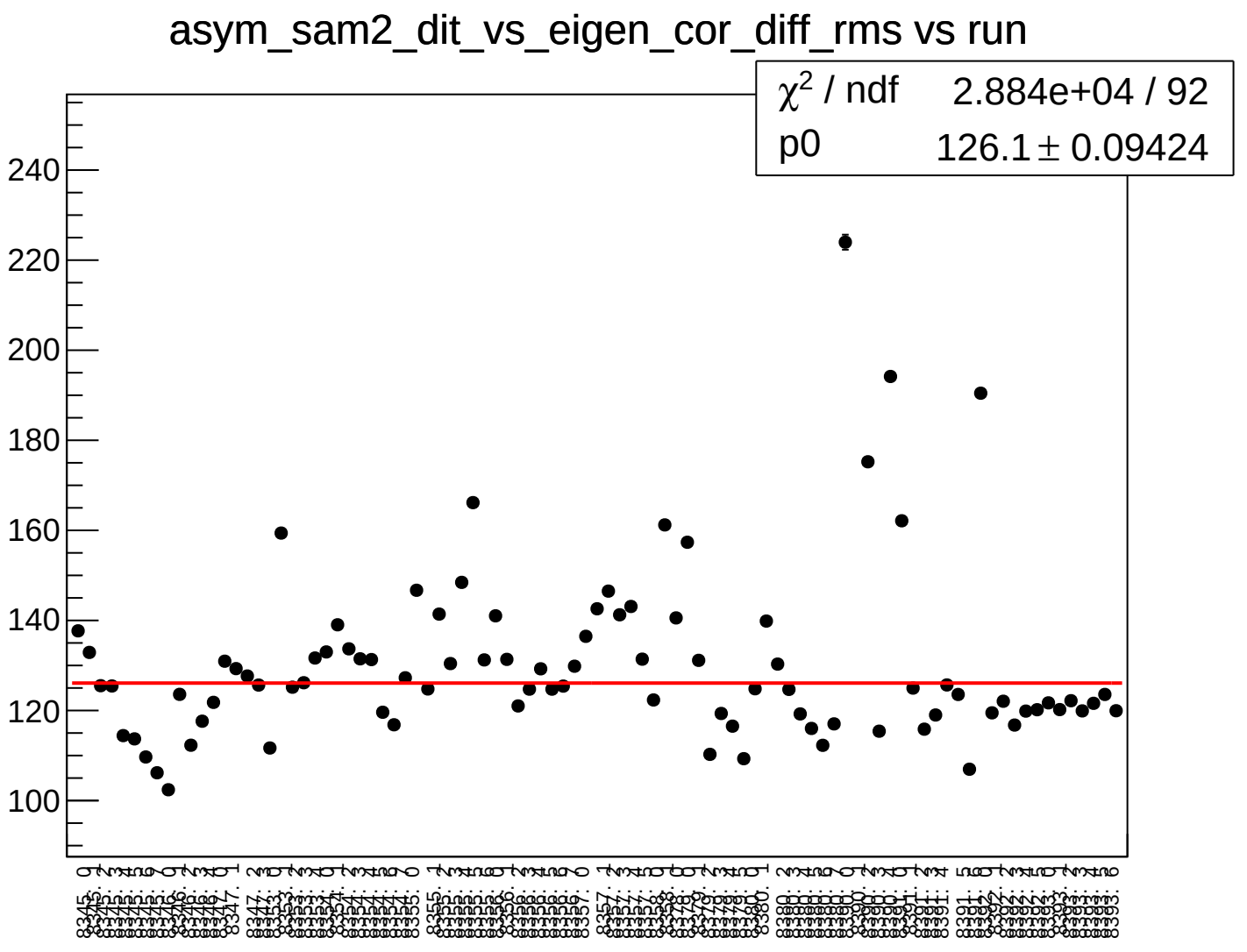

asym_sam2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.037e+06 / 92
p0 2.916e−10 ± 3.298e−13
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

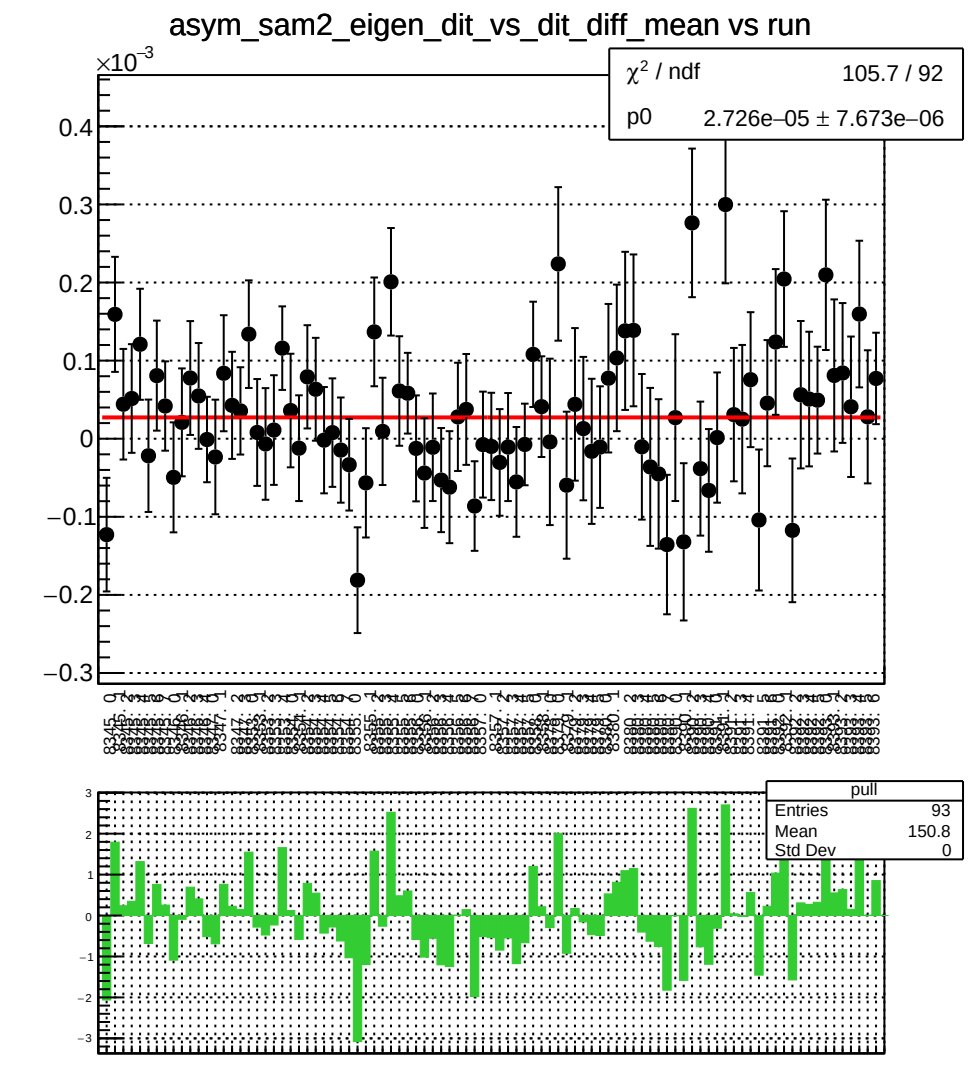

asym_sam2_dit_vs_cor_diff_mean vs run
χ² / ndf 91.71 / 92
p0 0.1742 ± 0.1333
pull
Entries 93
Mean 184.8
Std Dev 0
pull1D
Entries 93
Mean 0.01557
Std Dev 0.9929

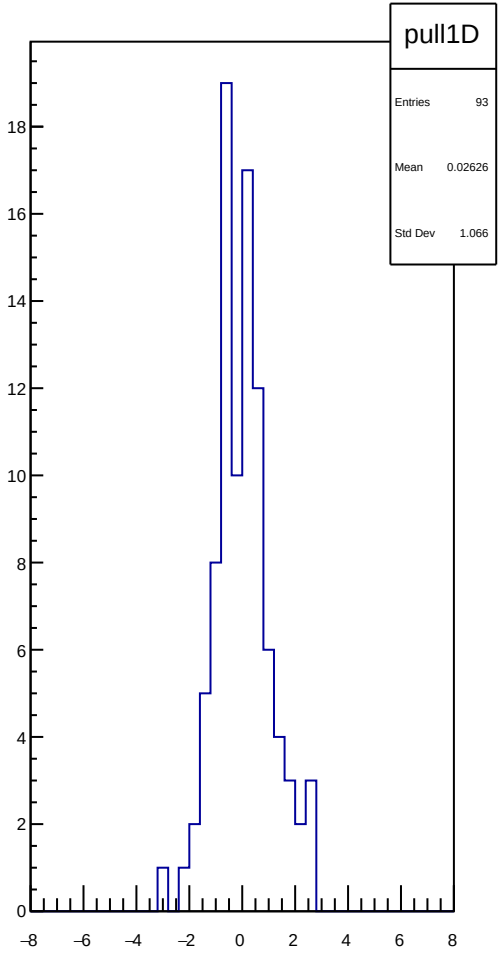

asym_sam2_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.884e+04 / 92
p0 126.1 ± 0.09424
240
220
200
180
160
140
120
100

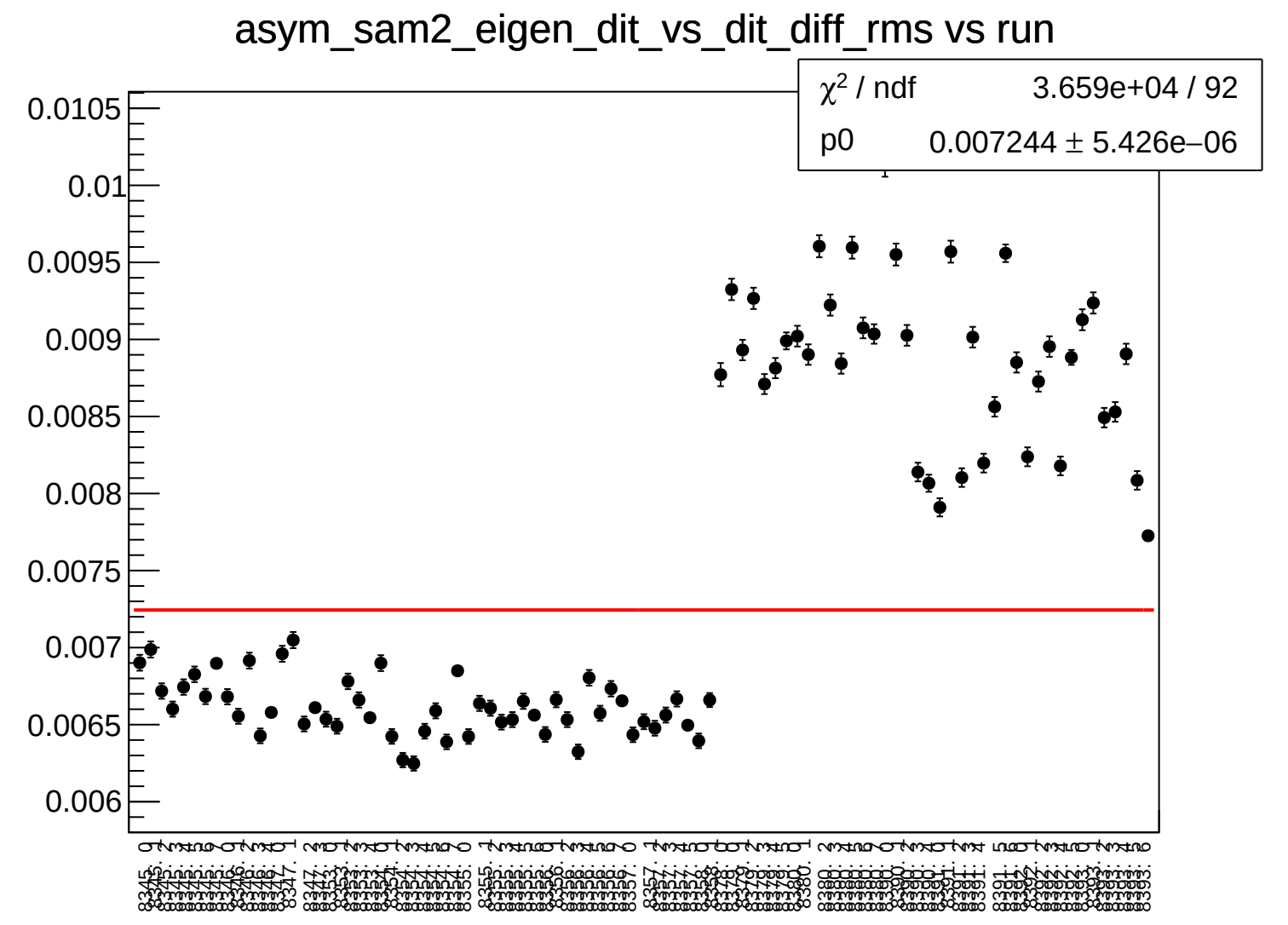

asym_sam2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.71 / 92
p0 0.1742 ± 0.1333
pull
Entries 93
Mean 184.8
Std Dev 0

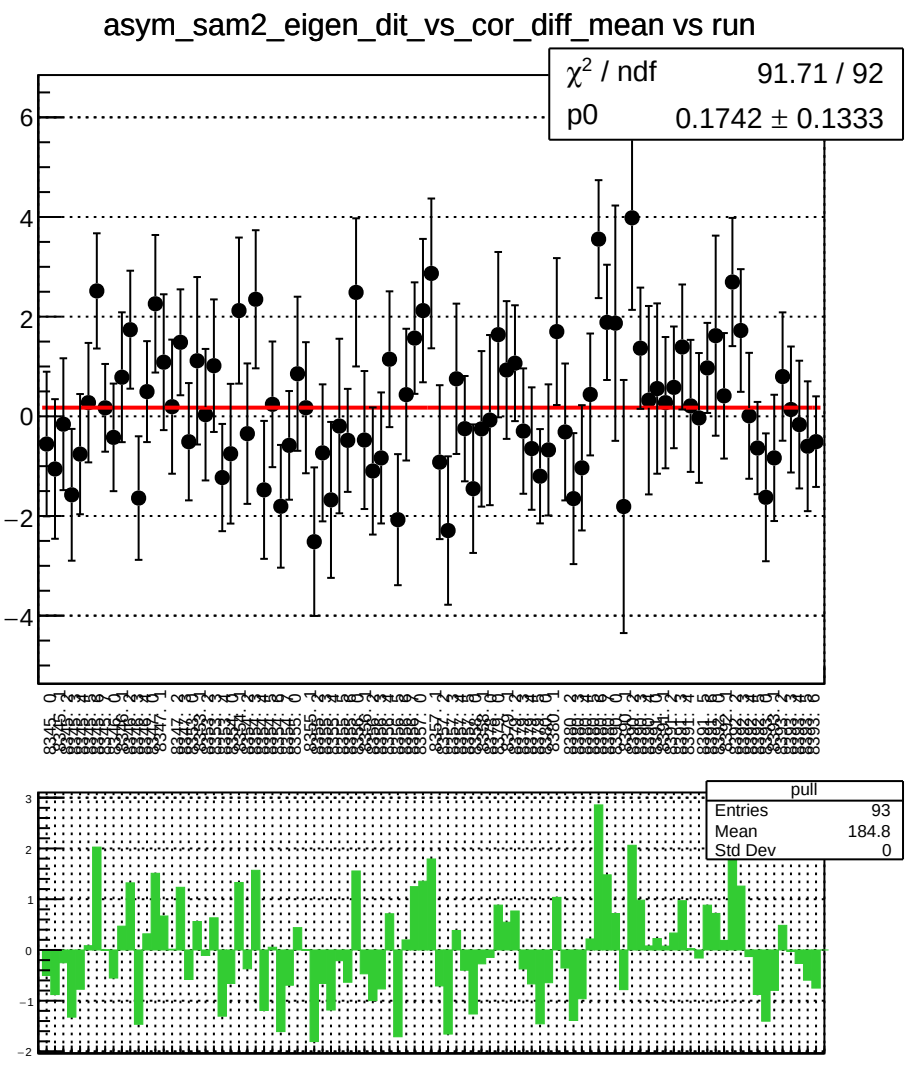

pull1D
Entries 93
Mean 0.01557
Std Dev 0.9929

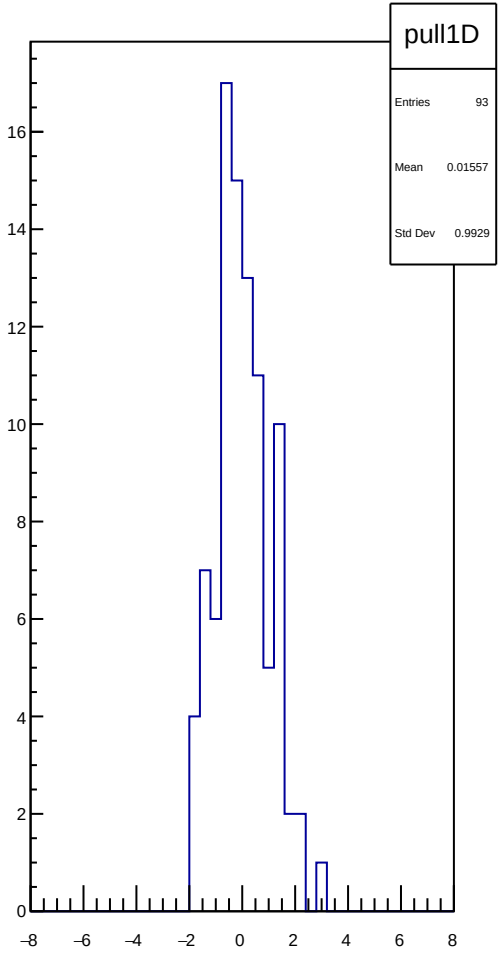

asym_sam2_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.884e+04 / 92
p0 126.1 ± 0.09424
240
220
200
180
160
140
120
100

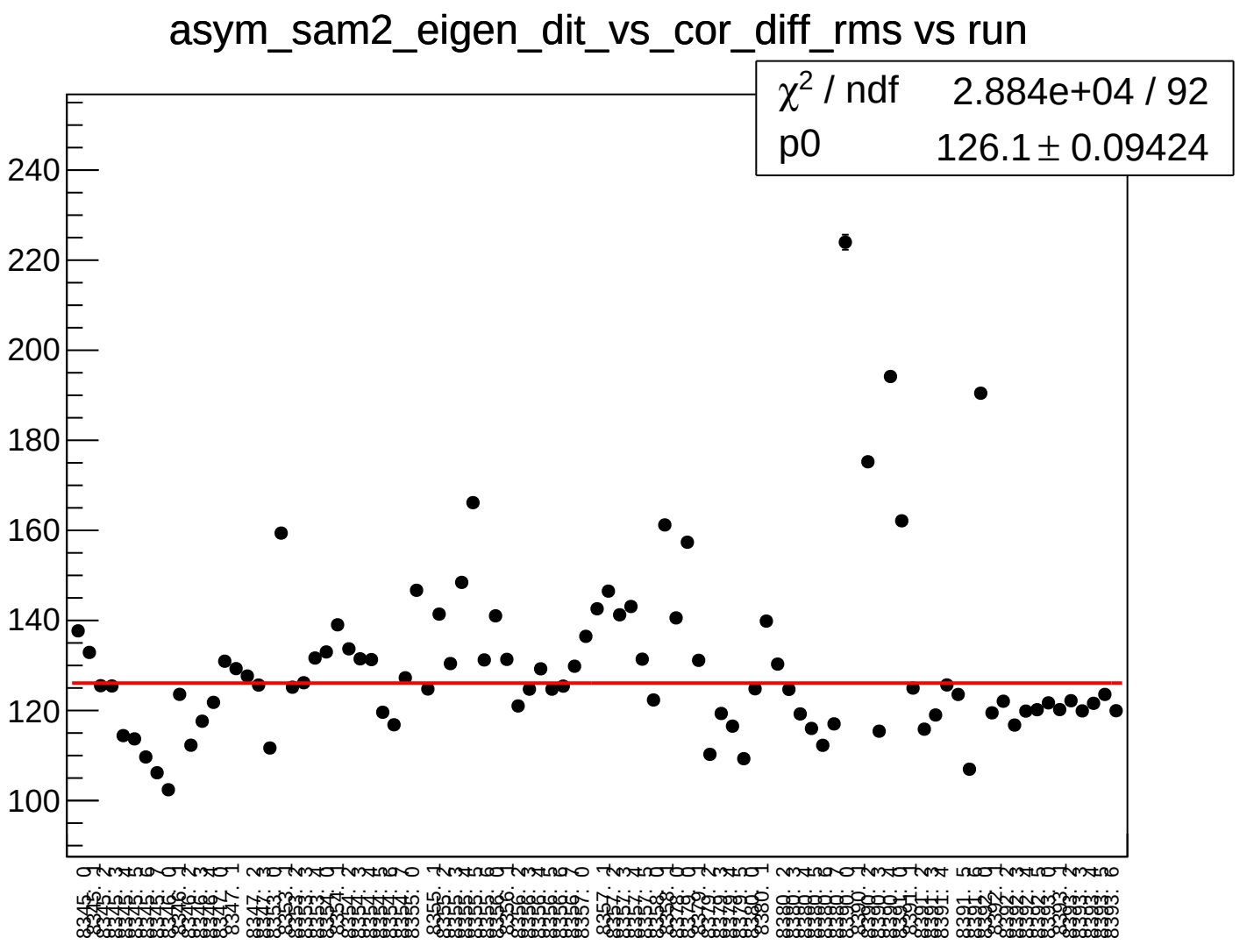

asym_sam2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 105.7 / 92
p0 2.726e−05 ± 7.673e−06
pull
Entries 93
Mean 150.8
Std Dev 0

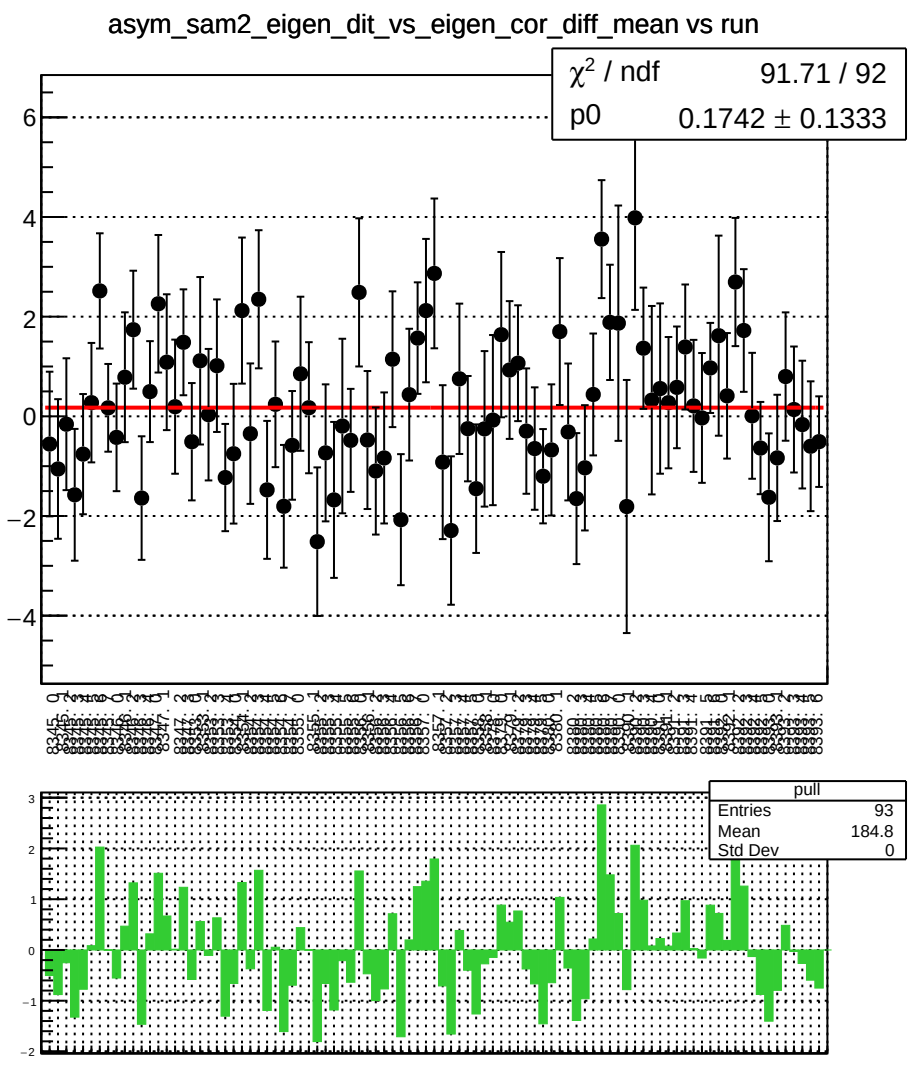

pull1D
Entries 93
Mean 0.02626
Std Dev 1.066

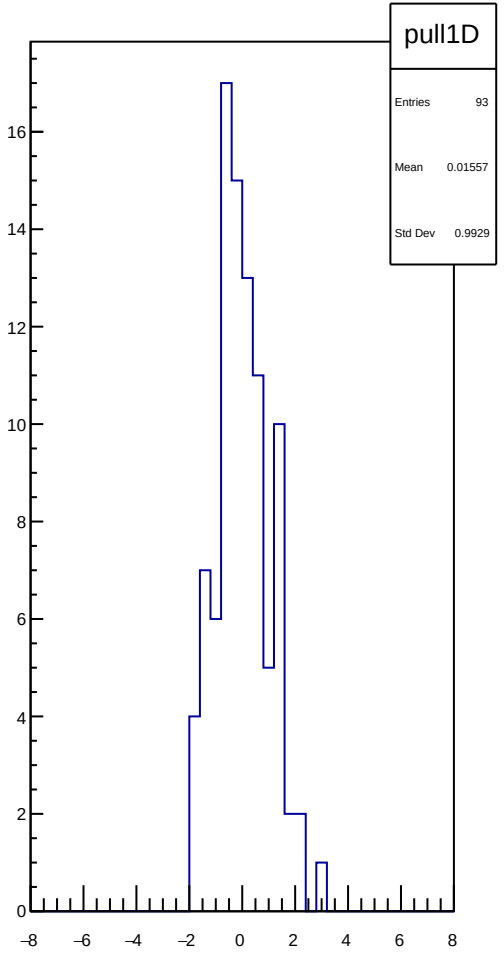

asym_sam2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.659e+04 / 92
p0 0.007244 ± 5.426e−06
0.0105
0.01
0.0095
0.009
0.0085
0.008
0.0075
0.007
0.0065
0.006

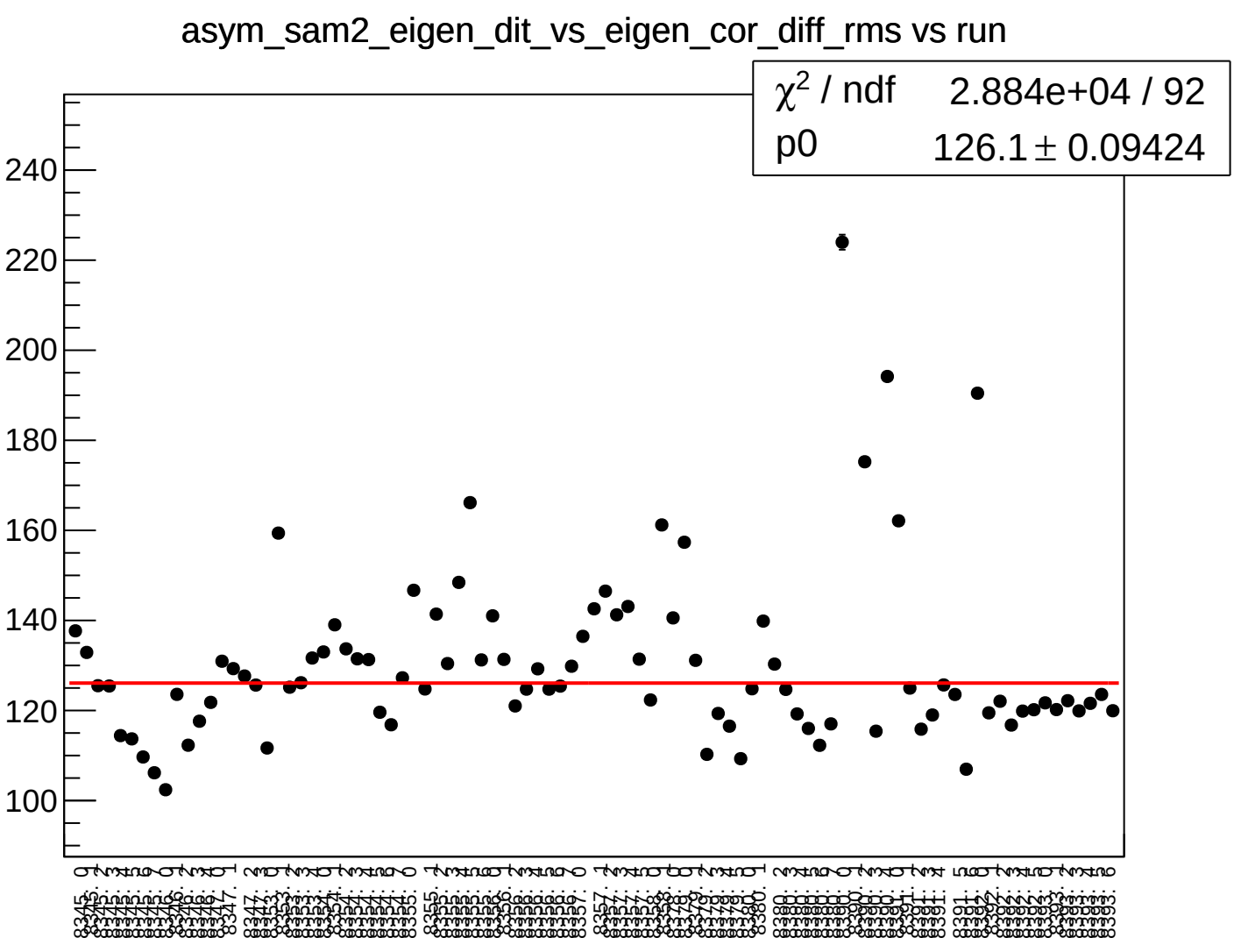

asym_sam2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.71 / 92
p0 0.1742 ± 0.1333
pull
Entries 93
Mean 184.8
Std Dev 0

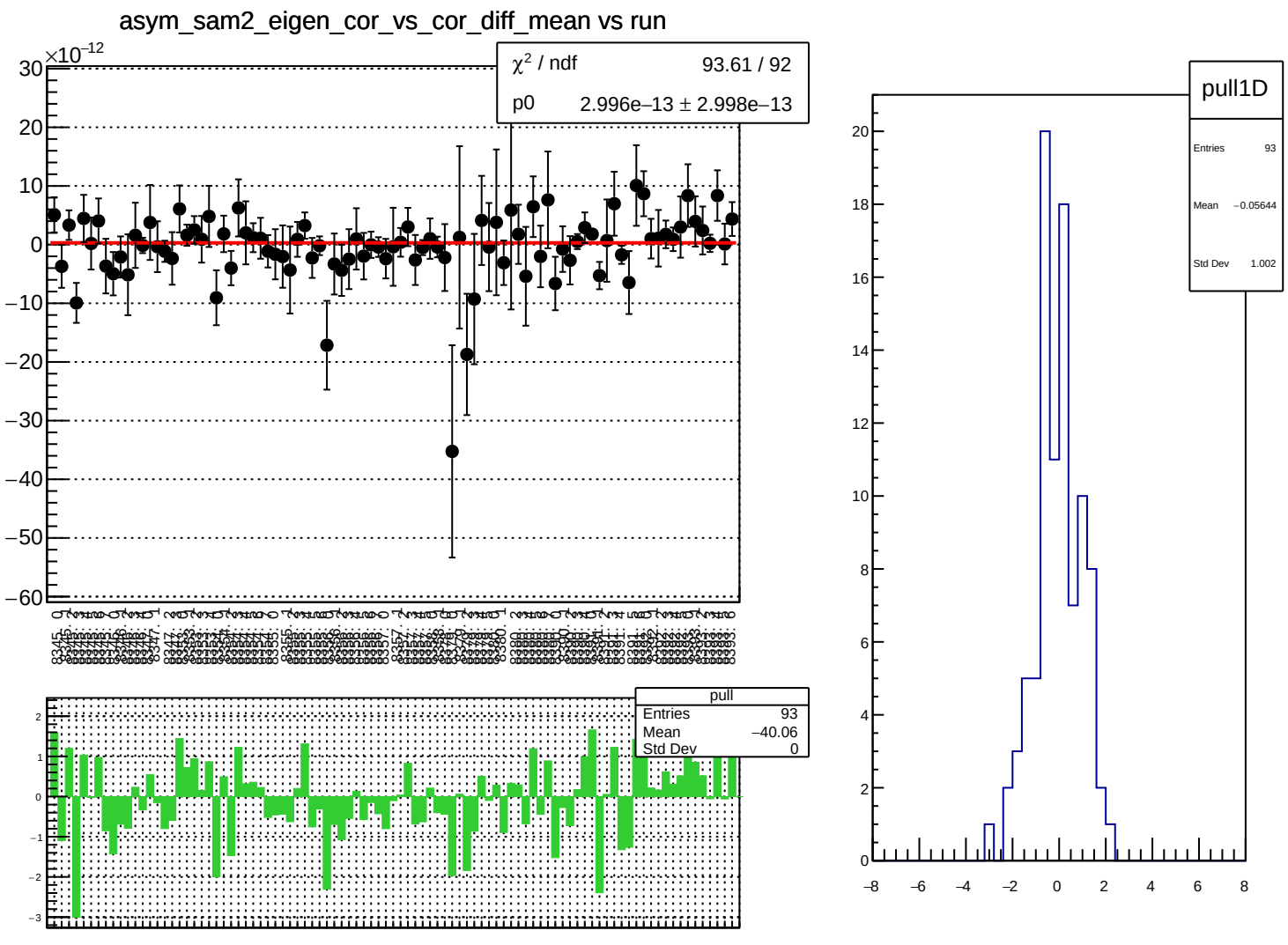

pull1D
Entries 93
Mean 0.01557
Std Dev 0.9929

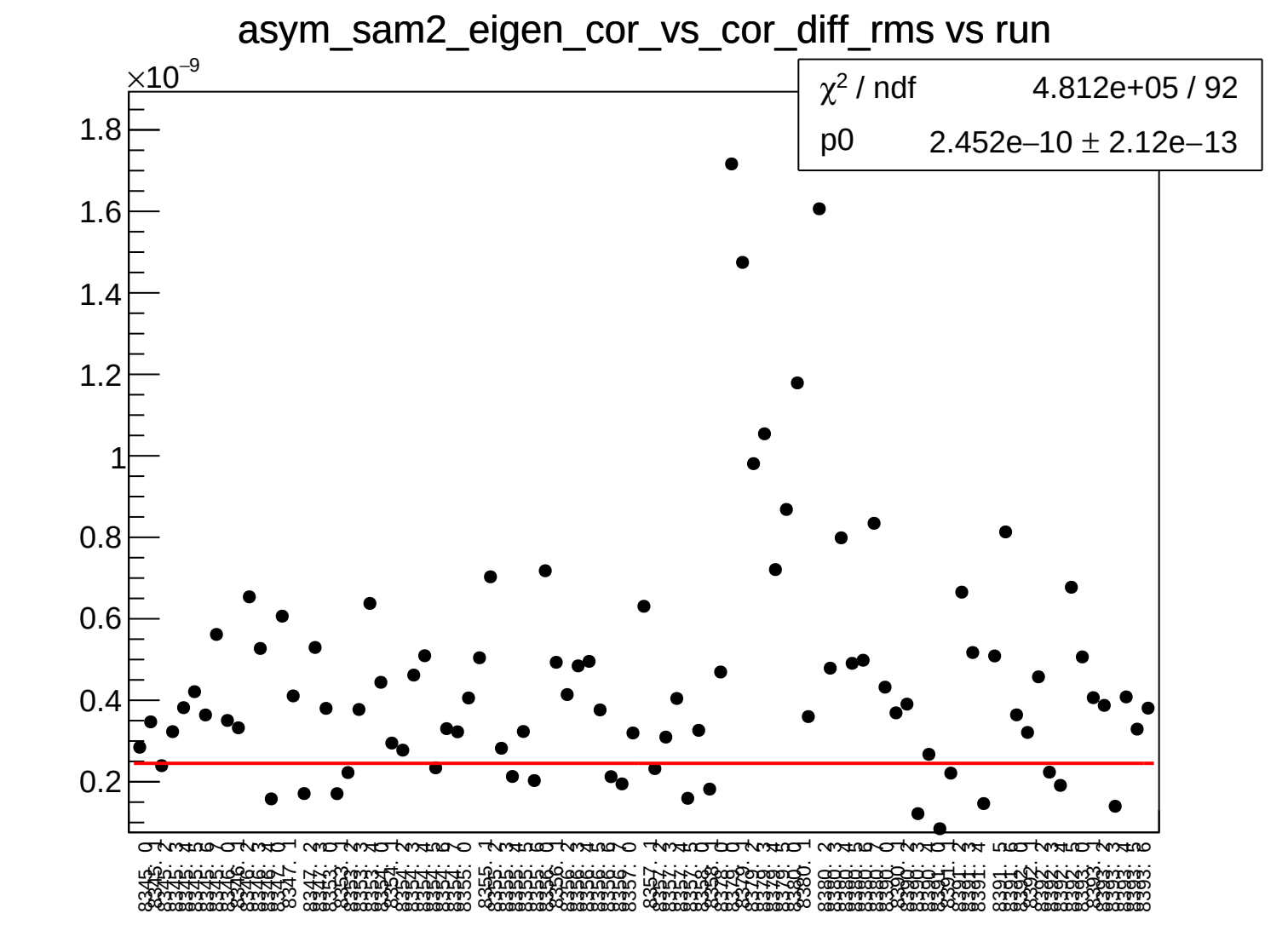

asym_sam2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.884e+04 / 92
p0 126.1 ± 0.09424
240
220
200
180
160
140
120
100

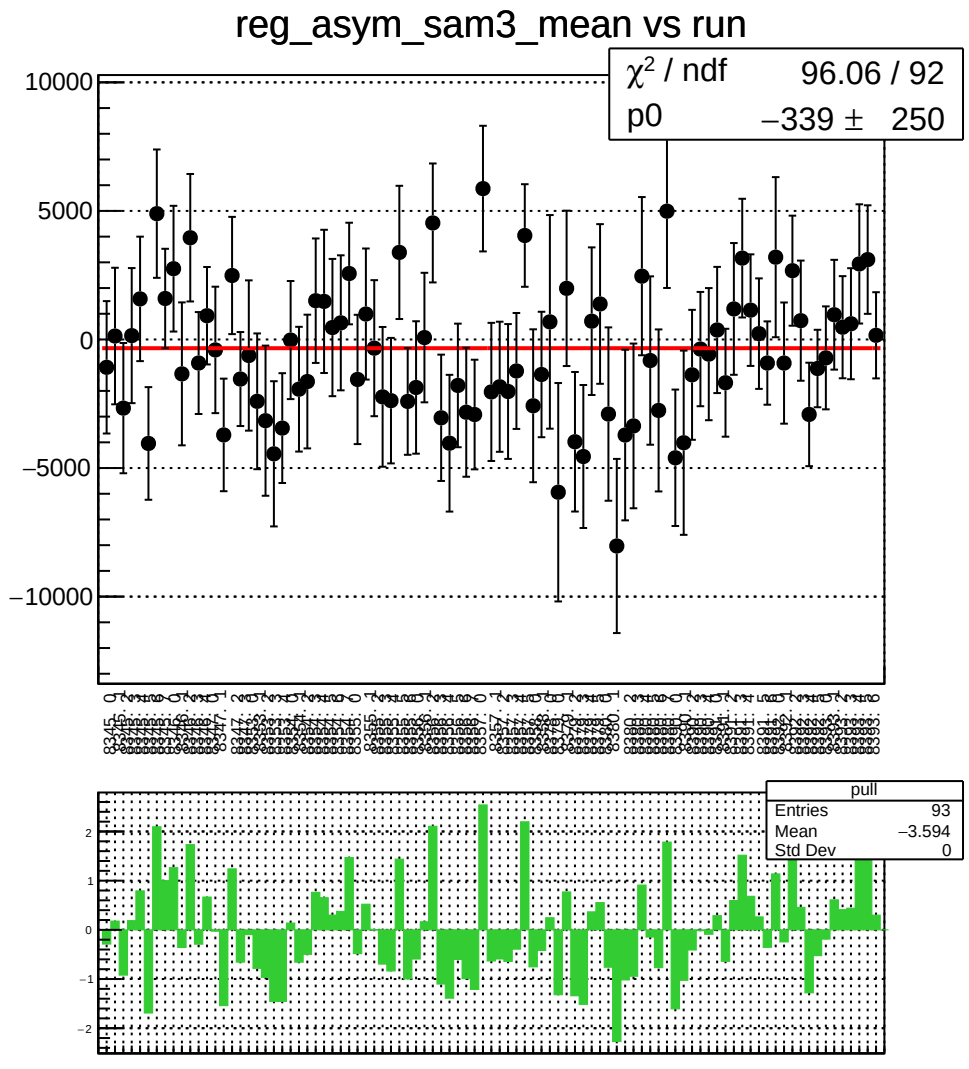

asym_sam2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.71 / 92
p0 0.1742 ± 0.1333
pull
Entries 93
Mean 184.8
Std Dev 0

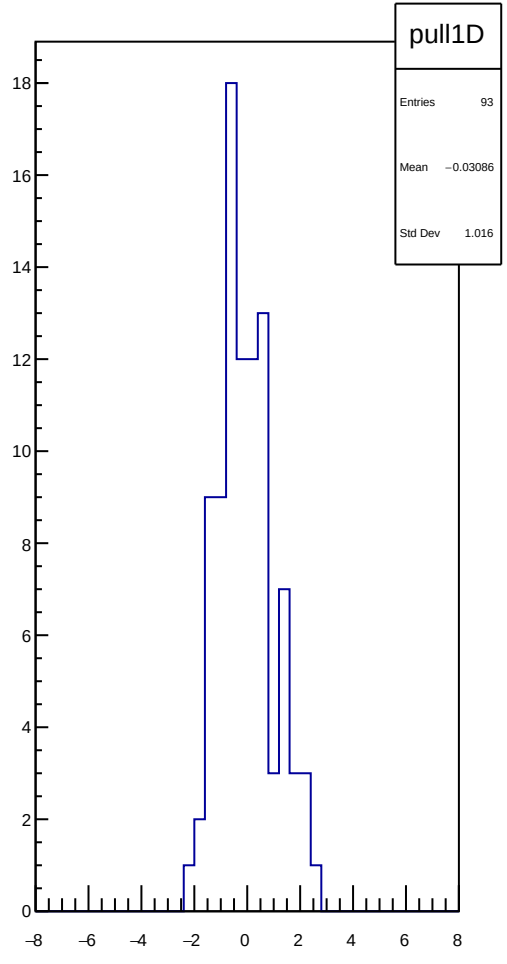

pull1D
Entries 93
Mean 0.01557
Std Dev 0.9929

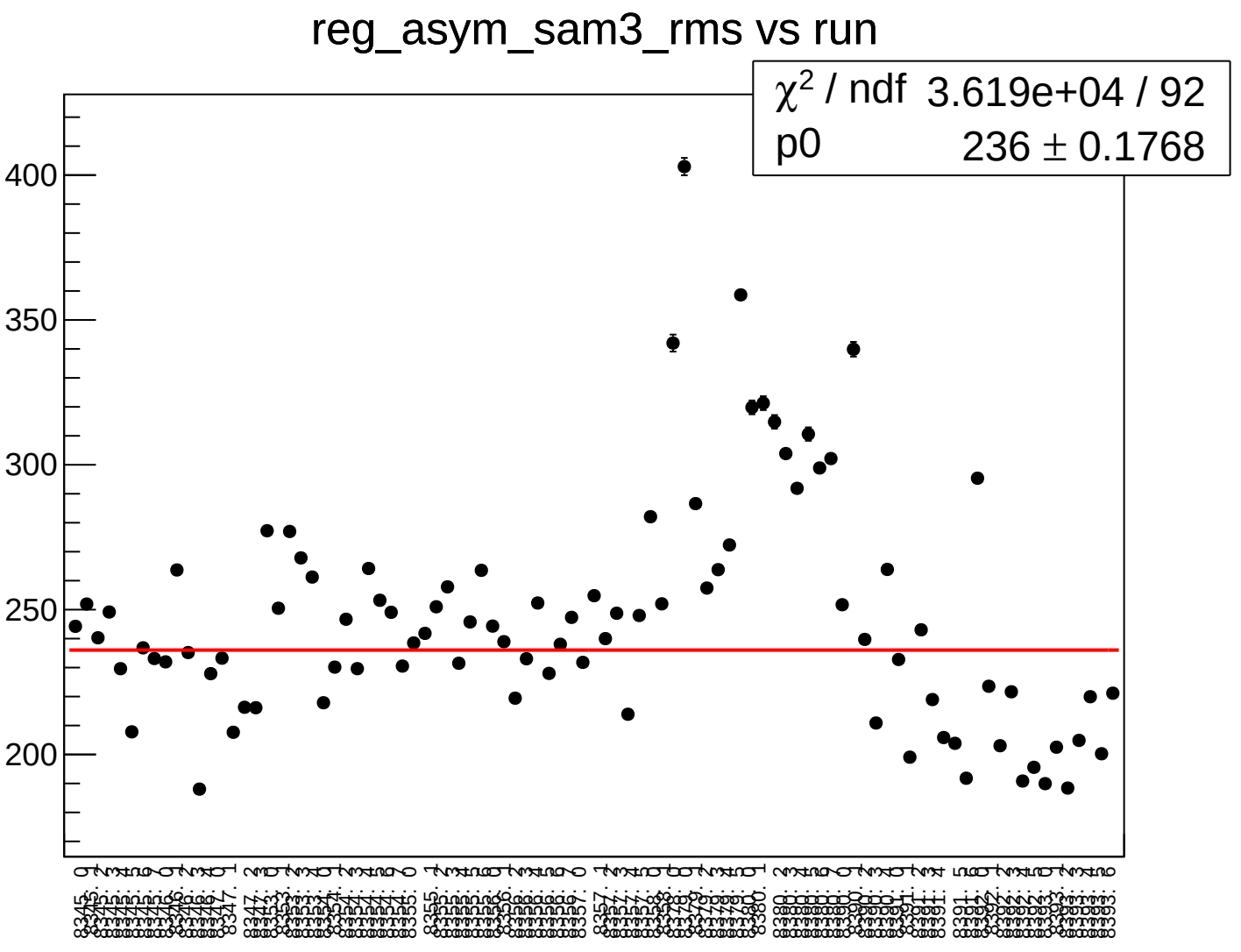

asym_sam2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.884e+04 / 92
p0 126.1 ± 0.09424
240
220
200
180
160
140
120
100

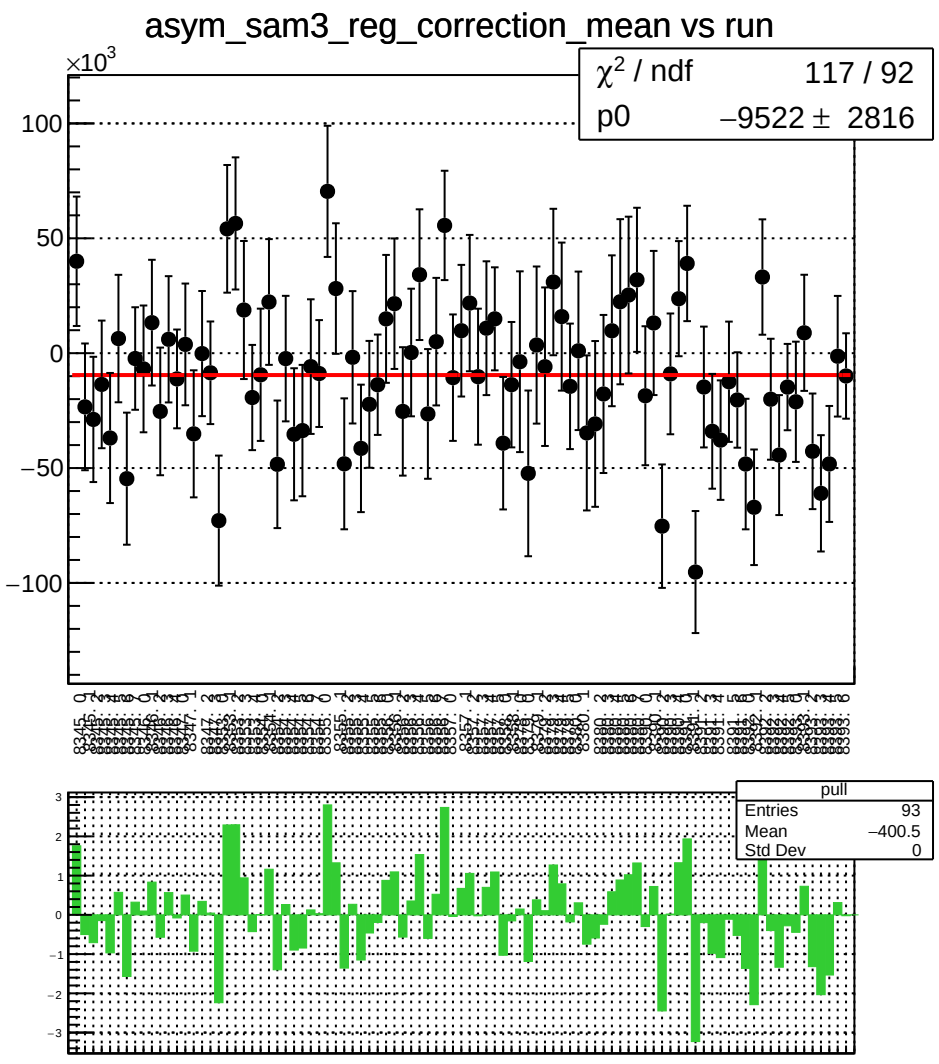

asym_sam2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.61 / 92
p0 2.996e−13 ± 2.998e−13
pull
Entries 93
Mean −40.06
Std Dev 0
pull1D
Entries 93
Mean −0.05644
Std Dev 1.002

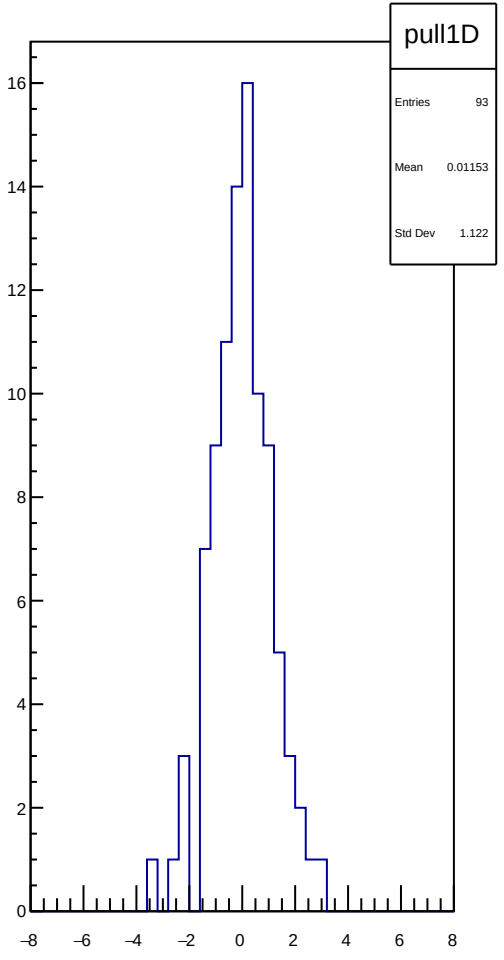

asym_sam2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.812e+05 / 92
p0 2.452e−10 ± 2.12e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

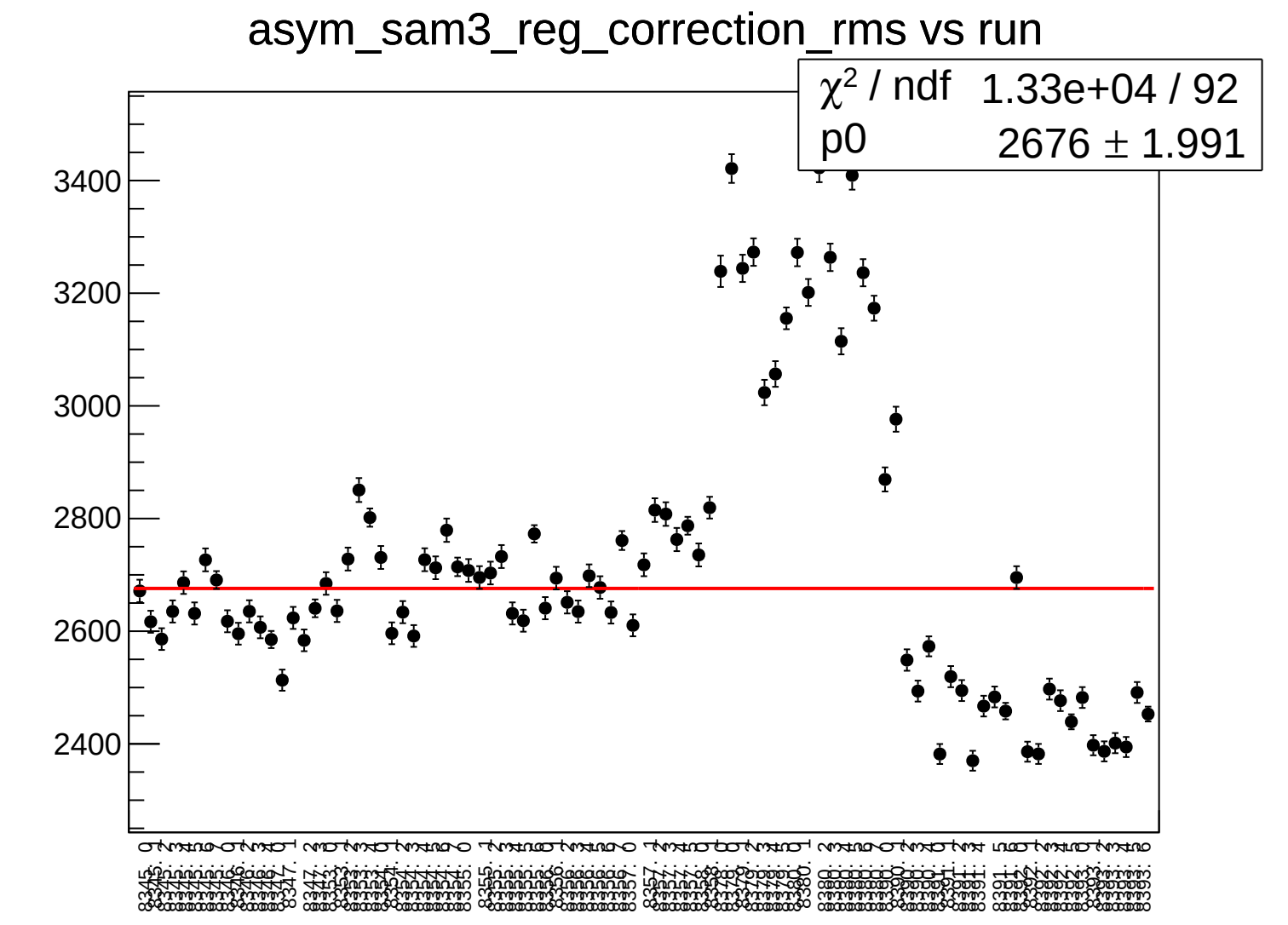

reg_asym_sam3_mean vs run
χ² / ndf 96.06 / 92
p0 −339 ± 250
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −3.594
Std Dev 0
2
1
0
−1
−2

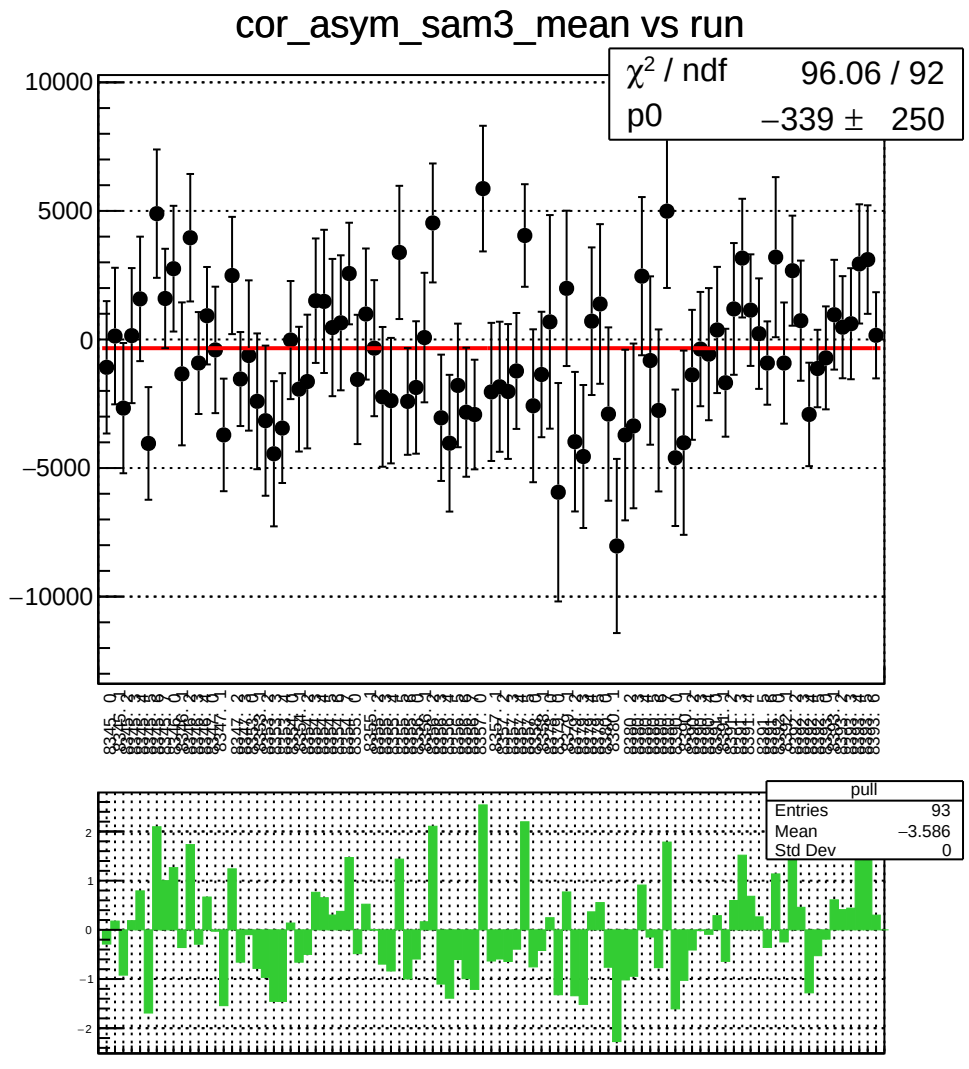

pull1D
Entries 93
Mean −0.03086
Std Dev 1.016
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

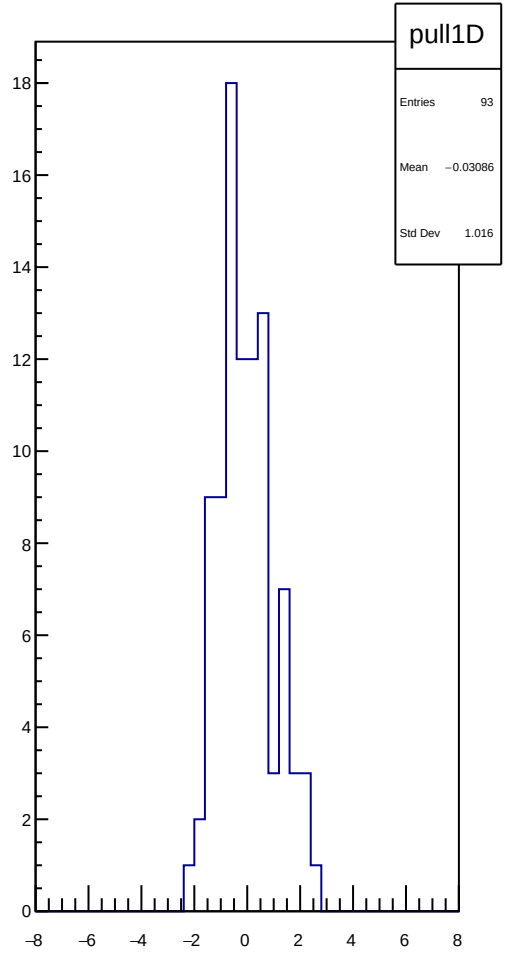

reg_asym_sam3_rms vs run
χ² / ndf 3.619e+04 / 92
p0 236 ± 0.1768
400
350
300
250
200

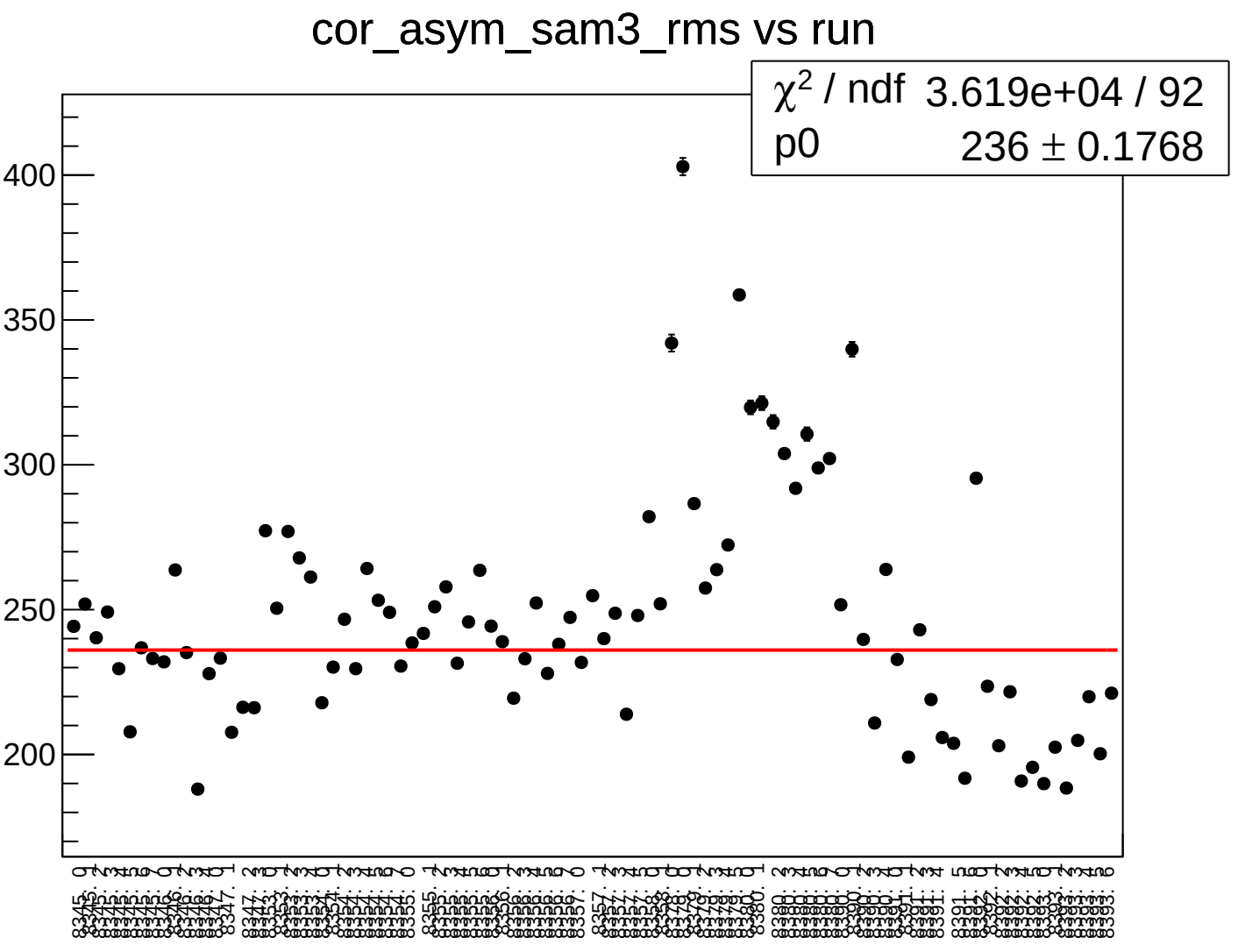

asym_sam3_reg_correction_mean vs run
×10^3
χ² / ndf 117 / 92
p0 −9522 ± 2816
100
50
0
−50
−100
pull
Entries 93
Mean −400.5
Std Dev 0
3
2
1
0
−1
−2
−3

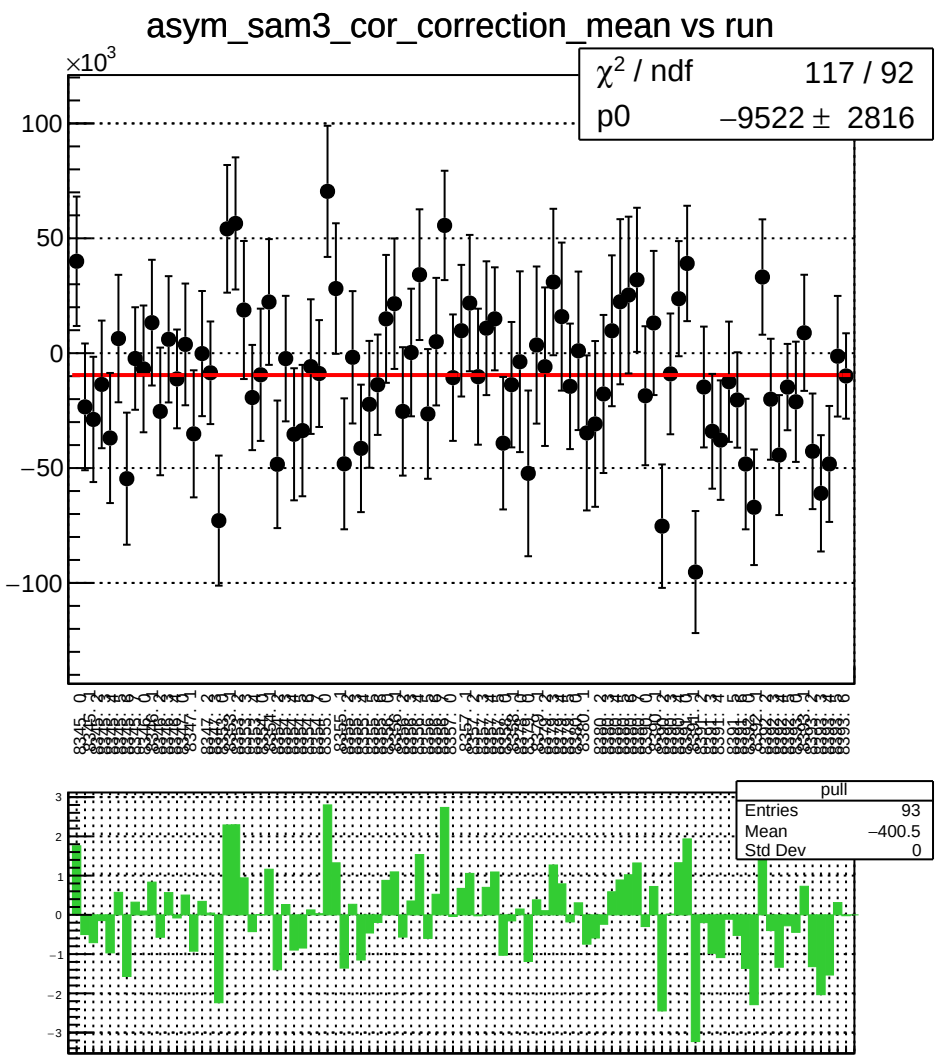

pull1D
Entries 93
Mean 0.01153
Std Dev 1.122
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

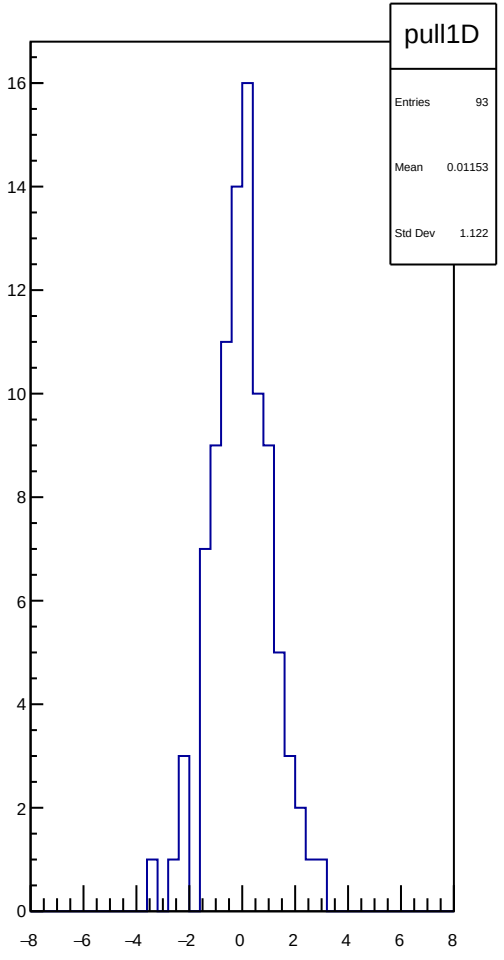

asym_sam3_reg_correction_rms vs run
χ² / ndf 1.33e+04 / 92
p0 2676 ± 1.991
3400
3200
3000
2800
2600
2400

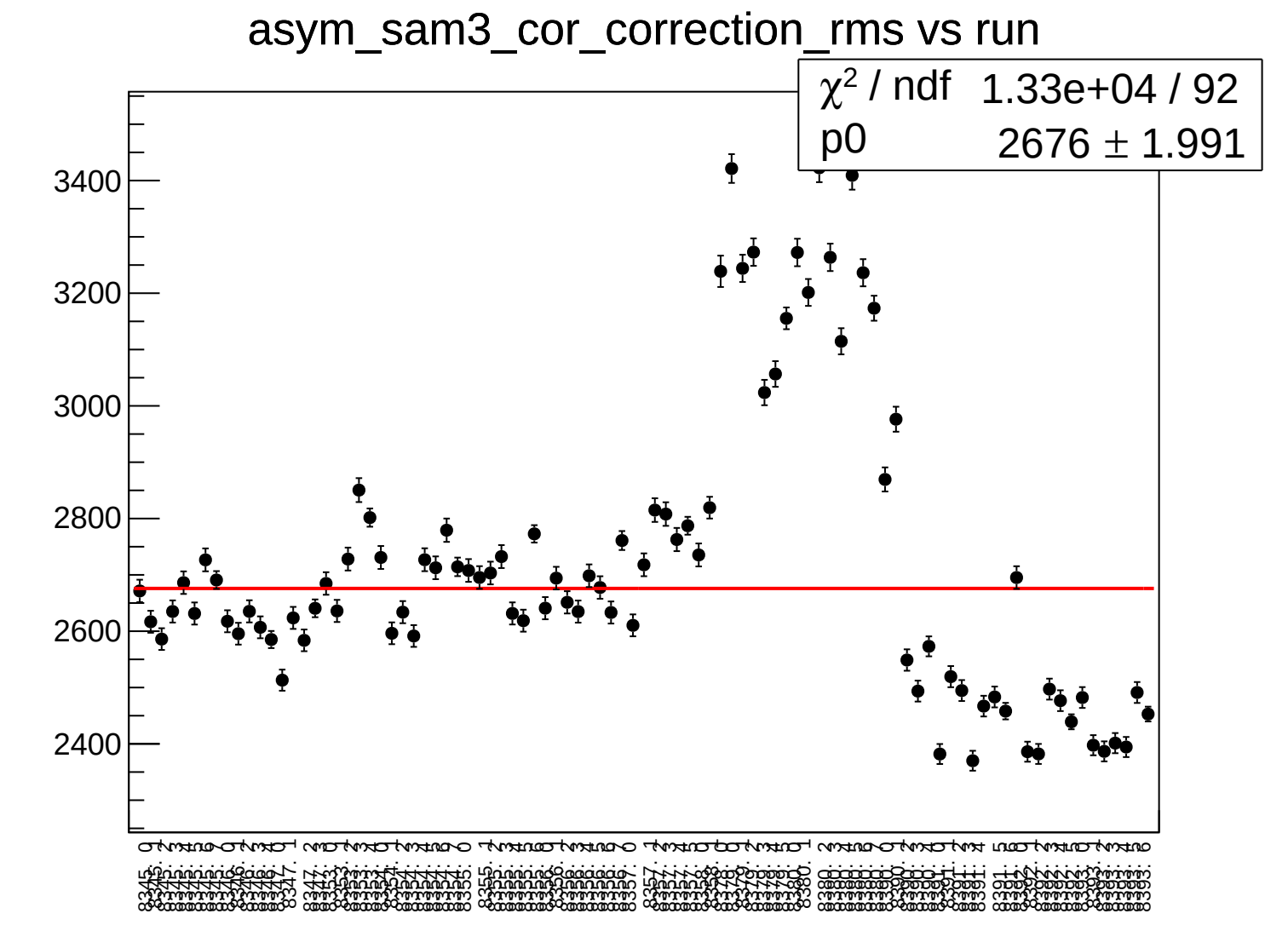

cor_asym_sam3_mean vs run
χ² / ndf 96.06 / 92
p0 −339 ± 250
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −3.586
Std Dev 0
2
1
0
−1
−2

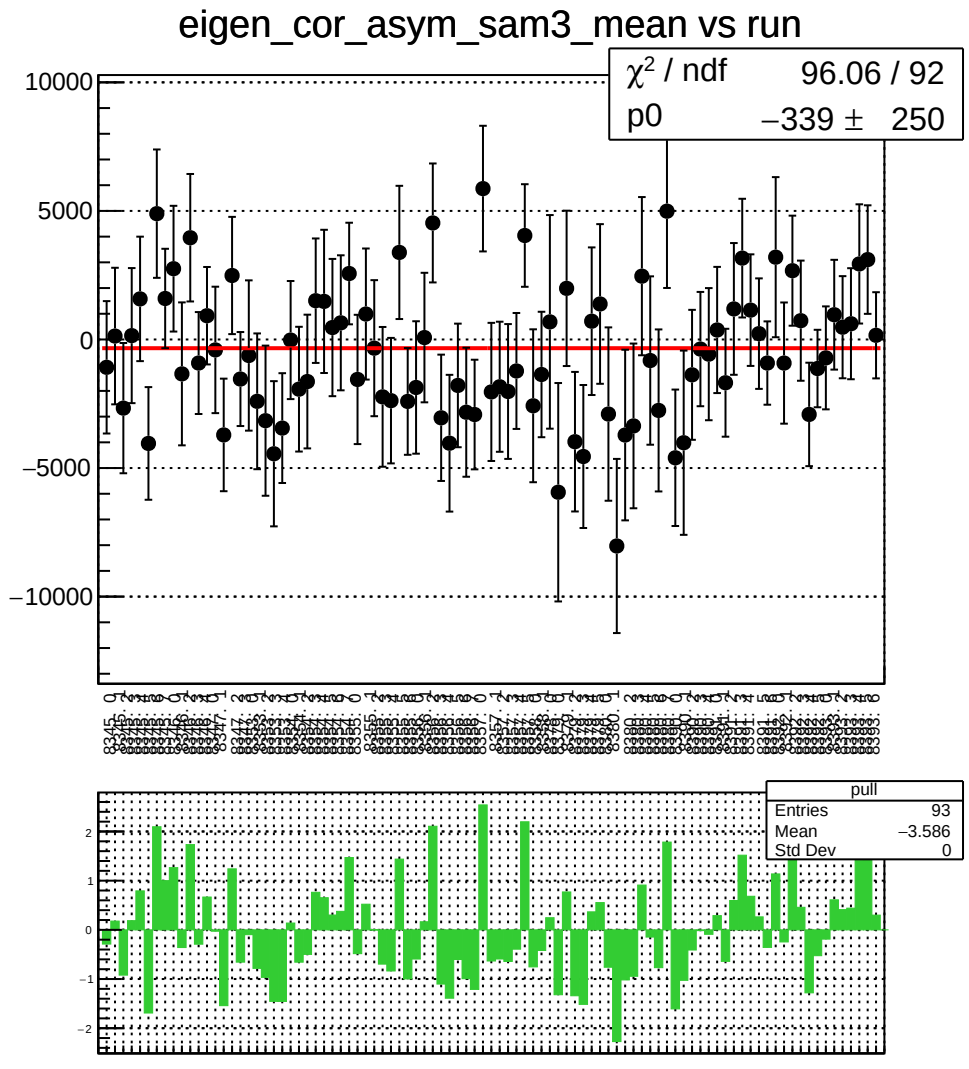

pull1D
Entries 93
Mean −0.03086
Std Dev 1.016
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

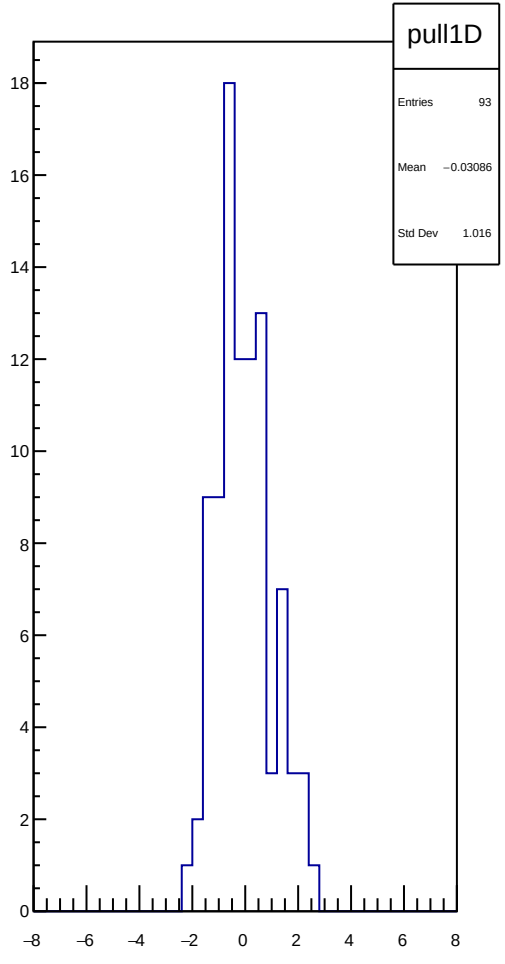

cor_asym_sam3_rms vs run
χ² / ndf 3.619e+04 / 92
p0 236 ± 0.1768
400
350
300
250
200

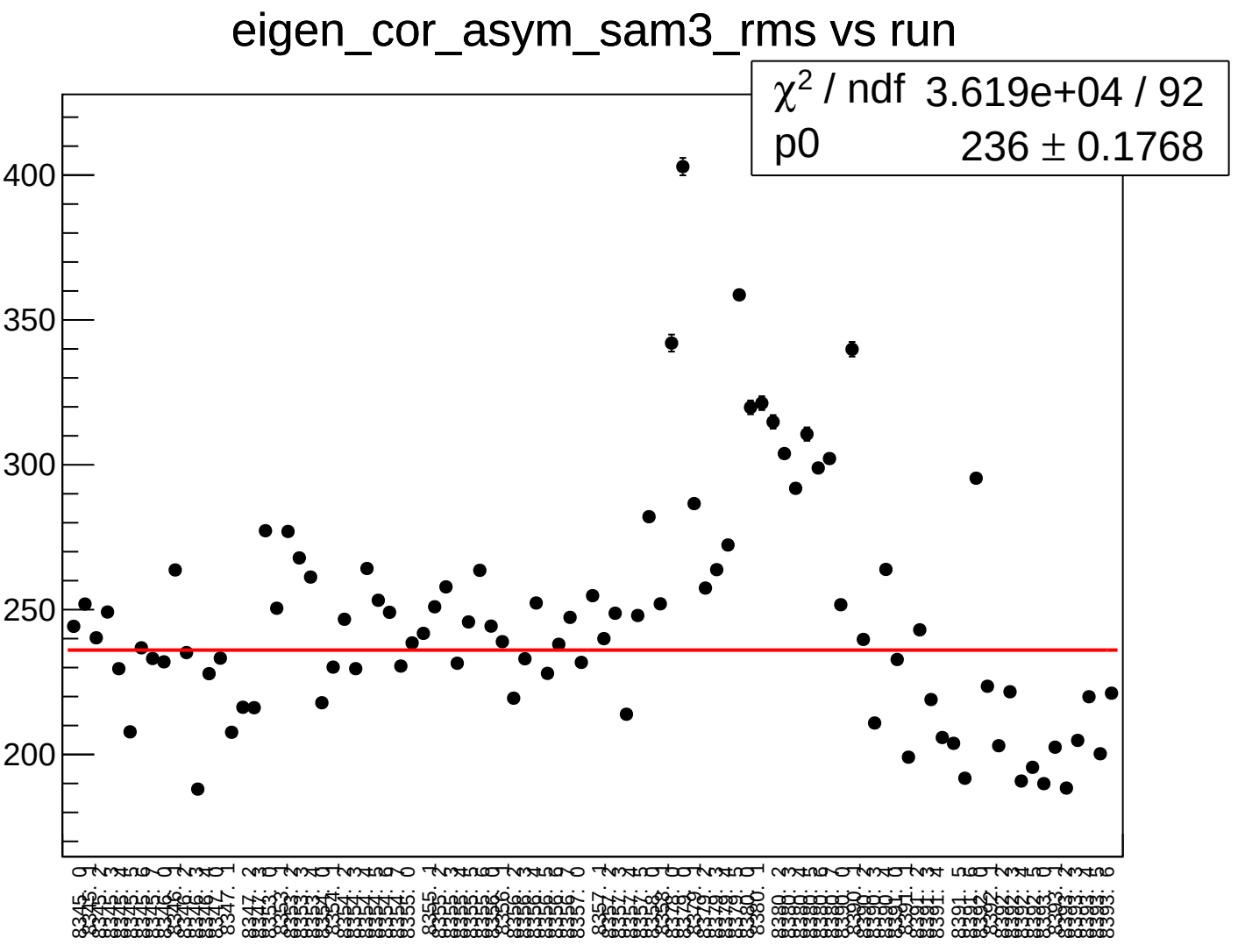

asym_sam3_cor_correction_mean vs run
×10^3
χ² / ndf 117 / 92
p0 −9522 ± 2816
100
50
0
−50
−100
pull
Entries 93
Mean −400.5
Std Dev 0
3
2
1
0
−1
−2
−3

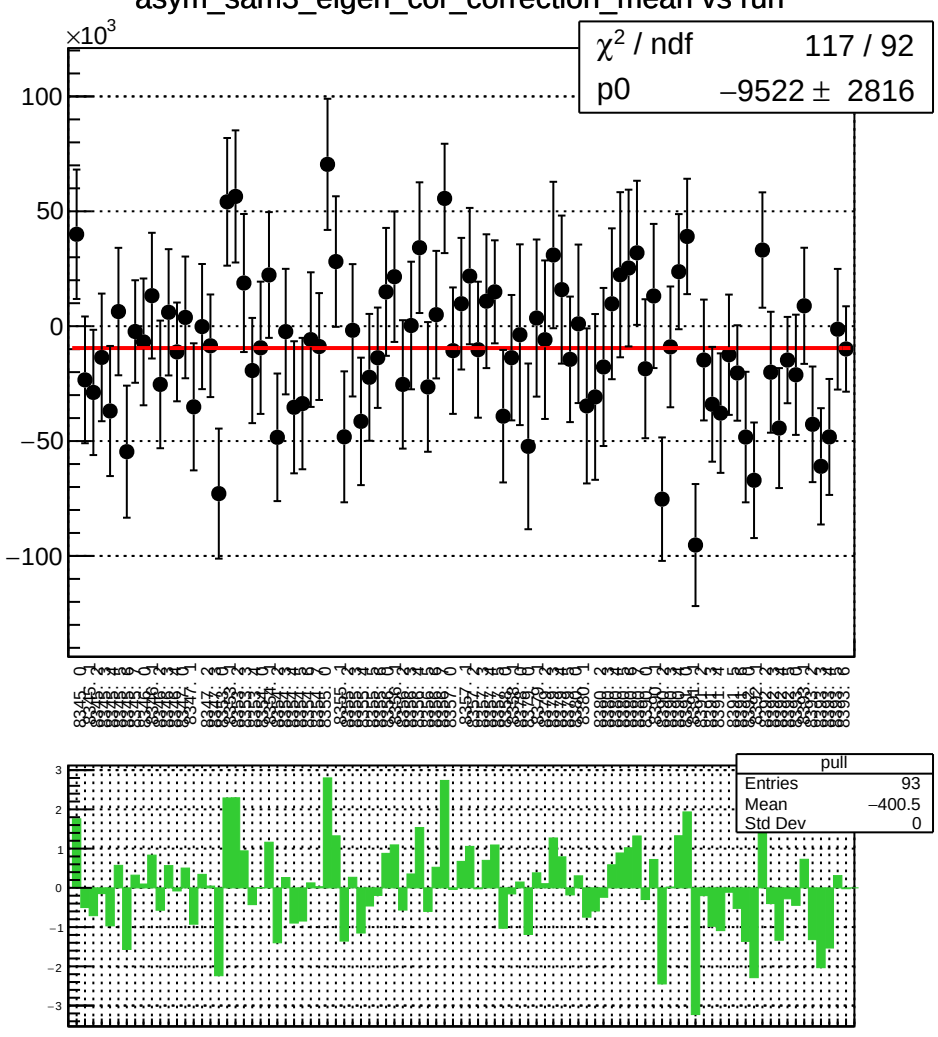

pull1D
Entries 93
Mean 0.01153
Std Dev 1.122
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

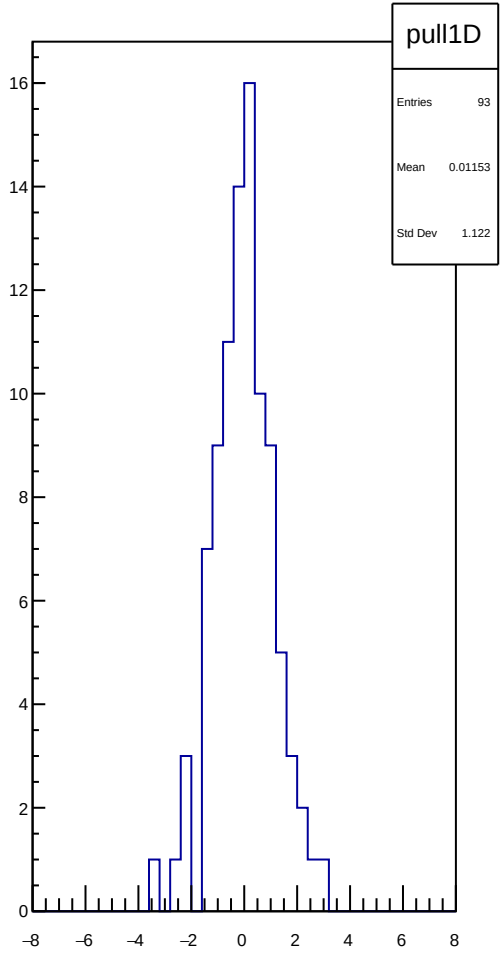

asym_sam3_cor_correction_rms vs run
χ² / ndf 1.33e+04 / 92
p0 2676 ± 1.991
3400
3200
3000
2800
2600
2400

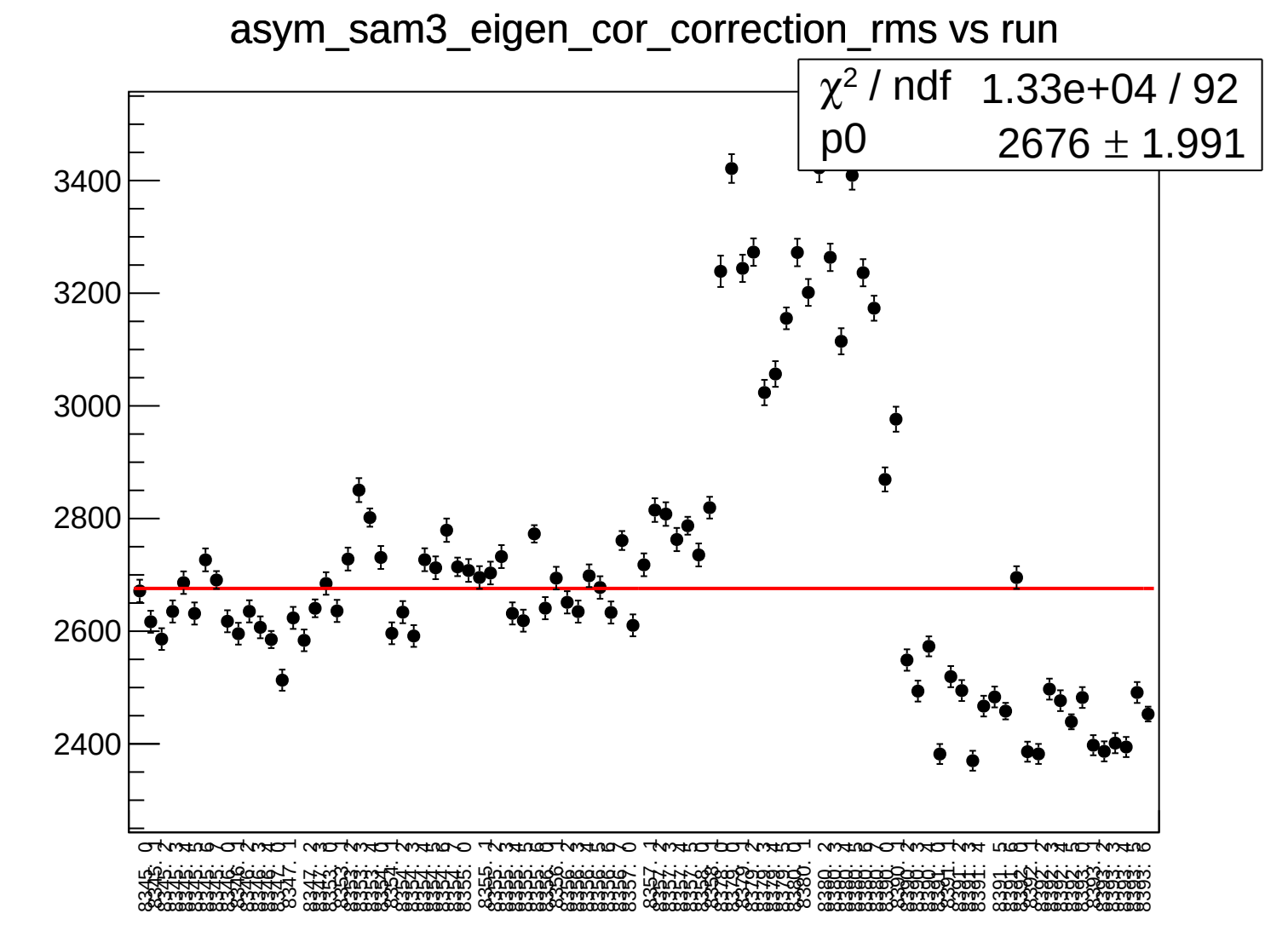

eigen_cor_asym_sam3_mean vs run
χ² / ndf 96.06 / 92
p0 −339 ± 250
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −3.586
Std Dev 0
2
1
0
−1
−2

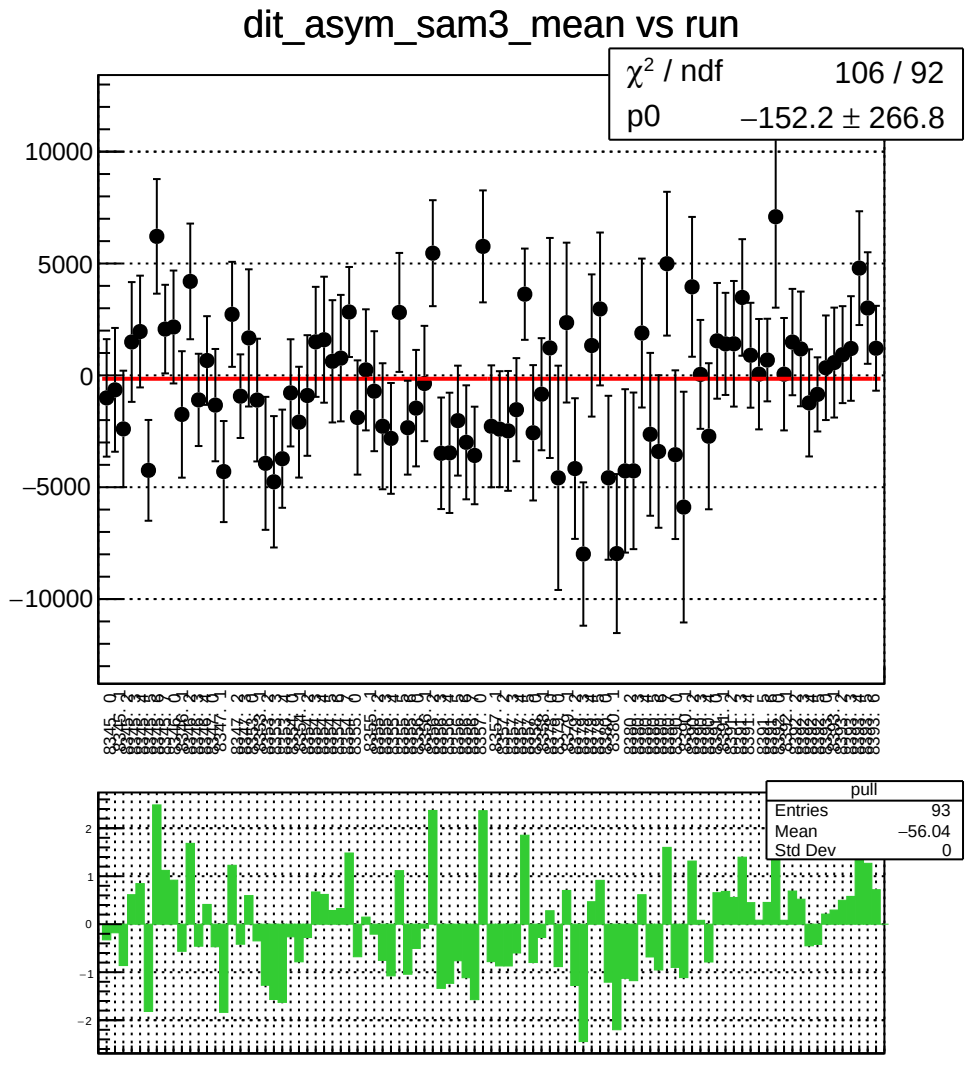

pull1D
Entries 93
Mean −0.03086
Std Dev 1.016
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

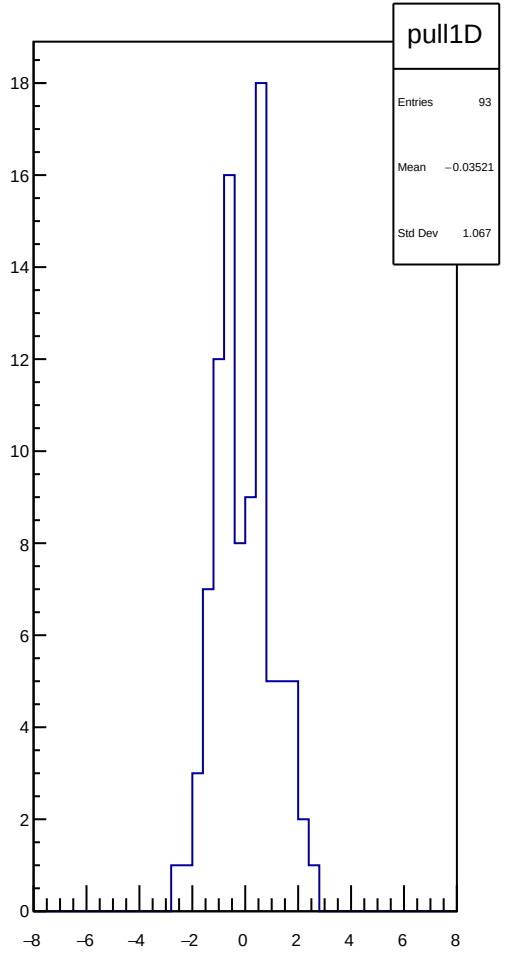

eigen_cor_asym_sam3_rms vs run
χ² / ndf 3.619e+04 / 92
p0 236 ± 0.1768
400
350
300
250
200

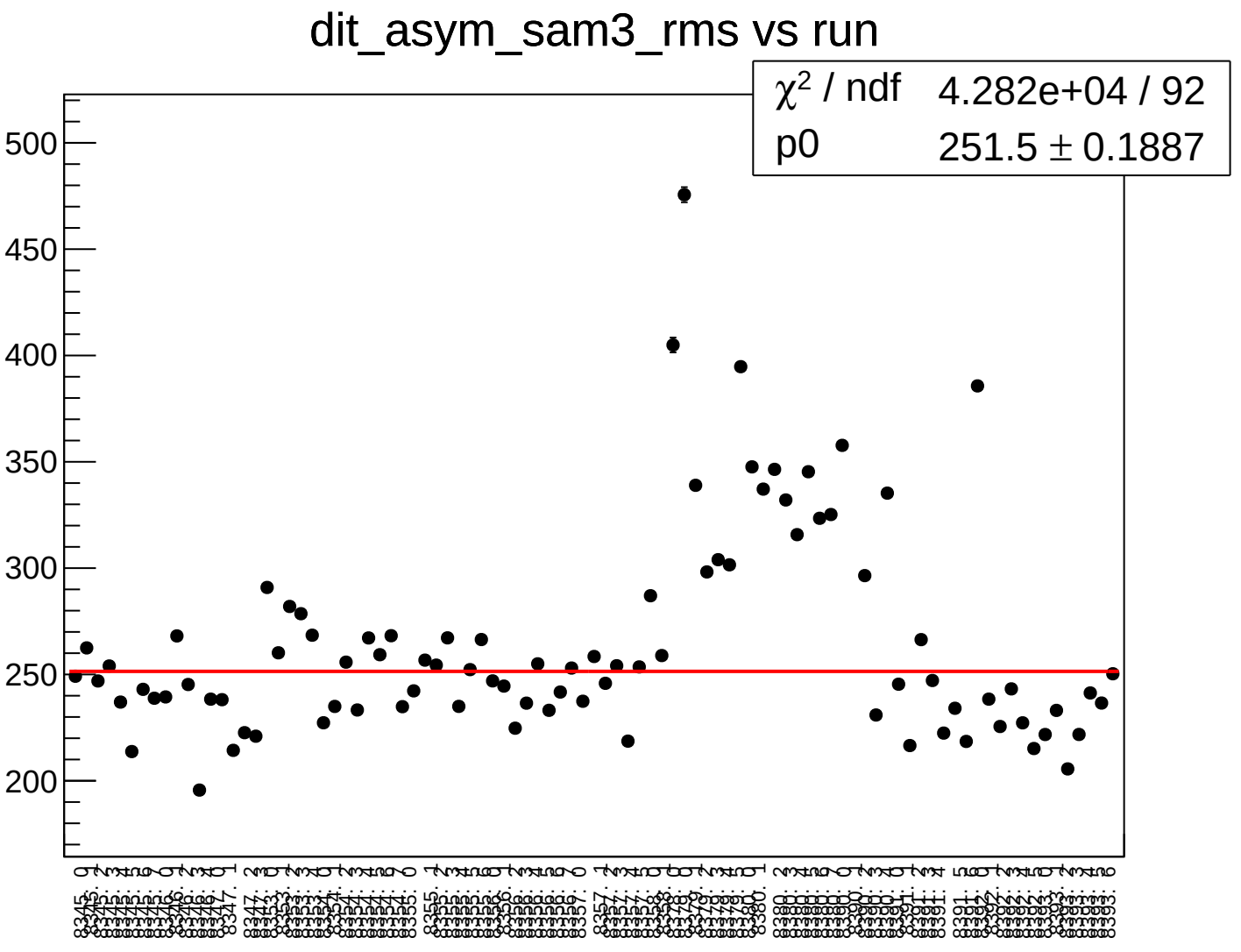

asym_sam3_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 117 / 92
p0 −9522 ± 2816
100
50
0
−50
−100
pull
Entries 93
Mean −400.5
Std Dev 0
3
2
1
0
−1
−2
−3

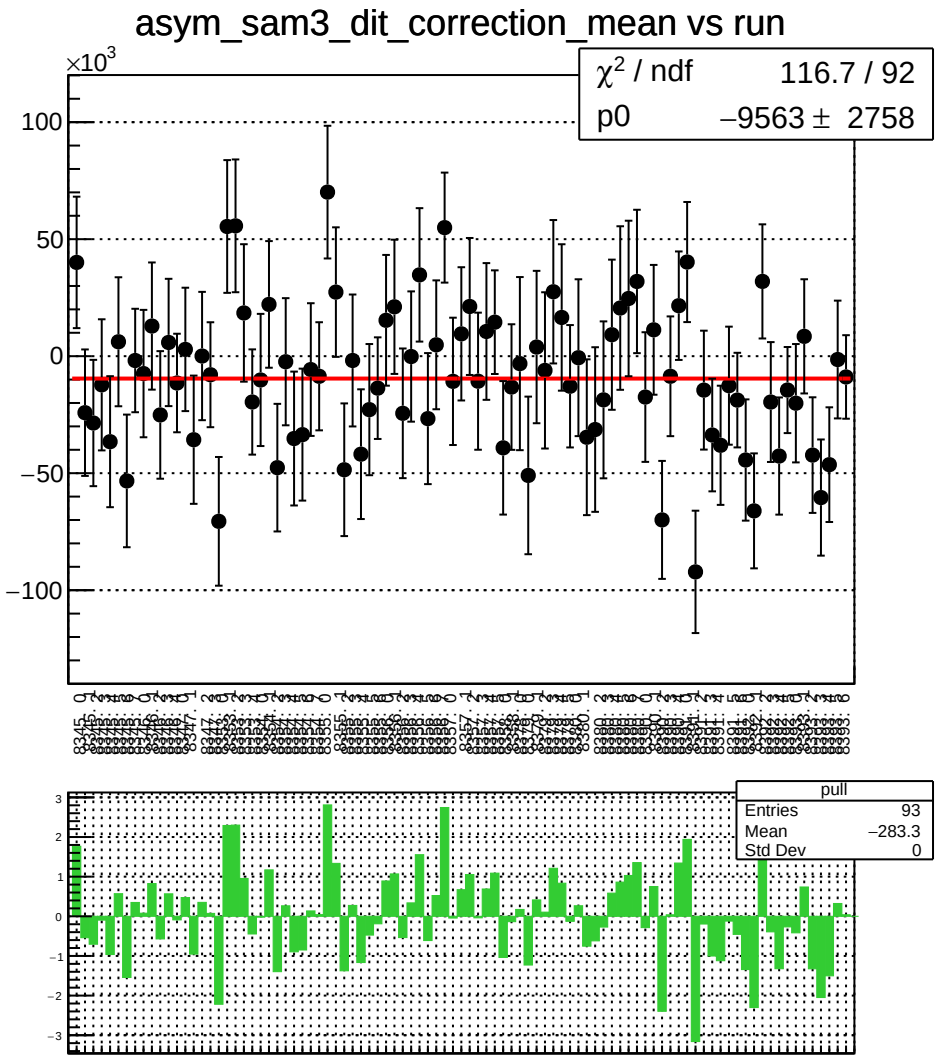

pull1D
Entries 93
Mean 0.01153
Std Dev 1.122
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

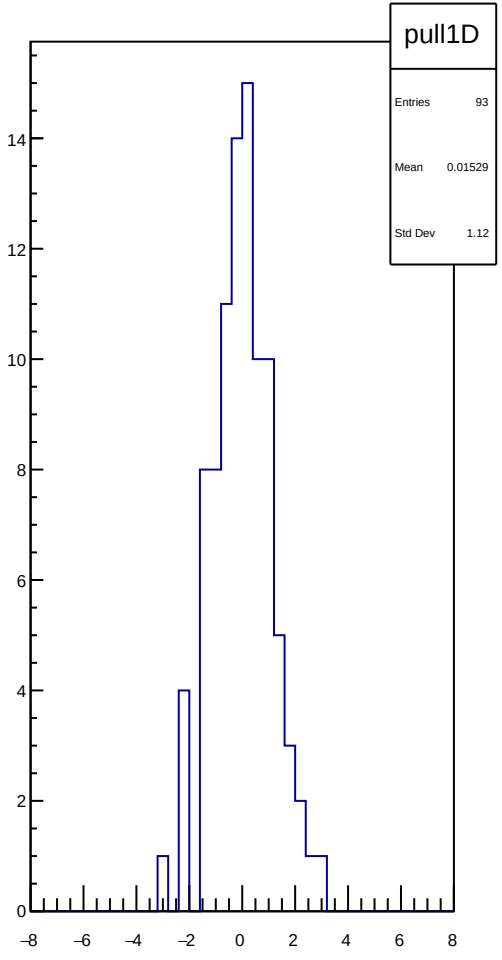

asym_sam3_eigen_cor_correction_rms vs run
χ² / ndf 1.33e+04 / 92
p0 2676 ± 1.991
3400
3200
3000
2800
2600
2400

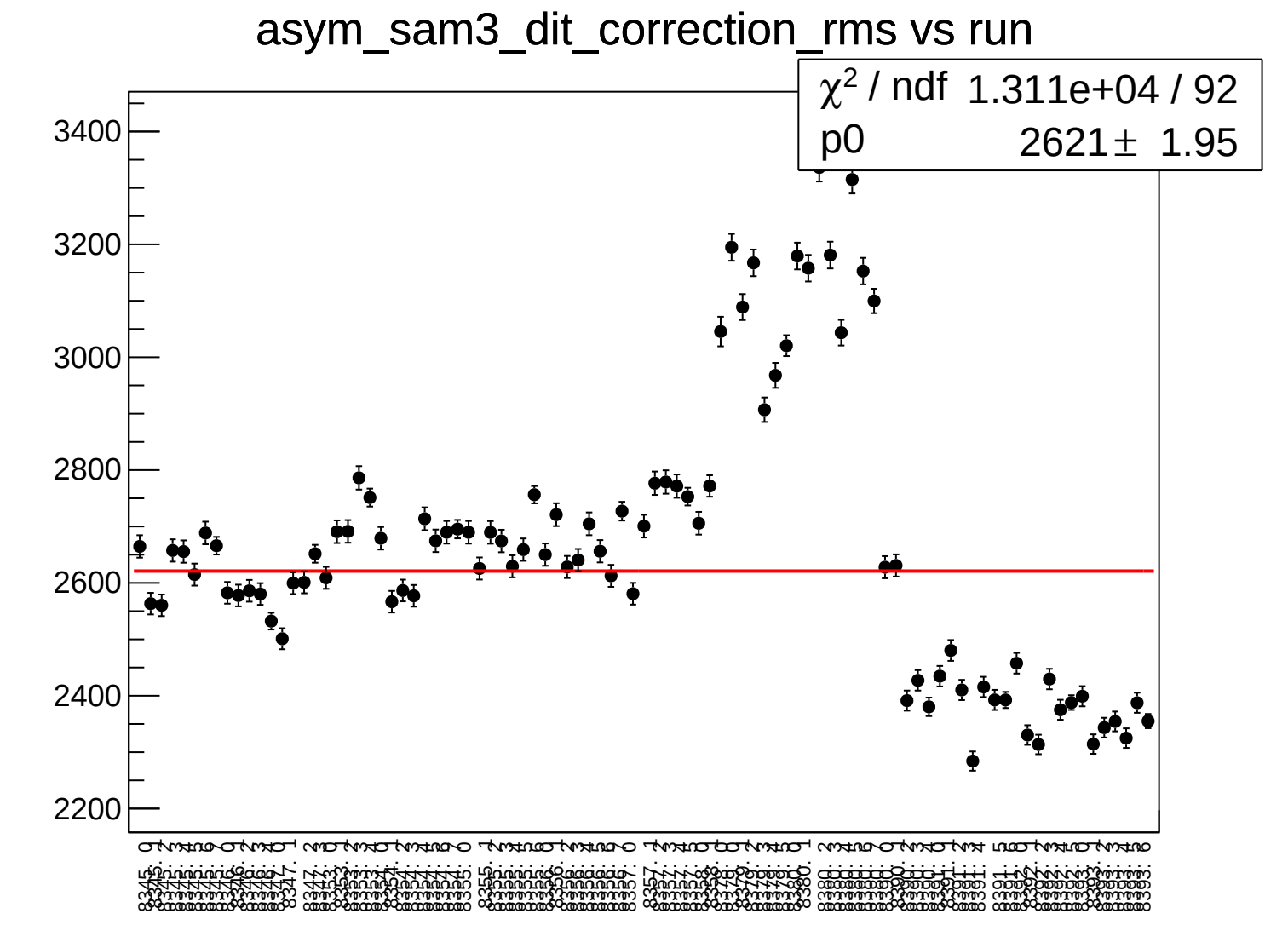

dit_asym_sam3_mean vs run
χ² / ndf 106 / 92
p0 −152.2 ± 266.8
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −56.04
Std Dev 0
2
1
0
−1
−2

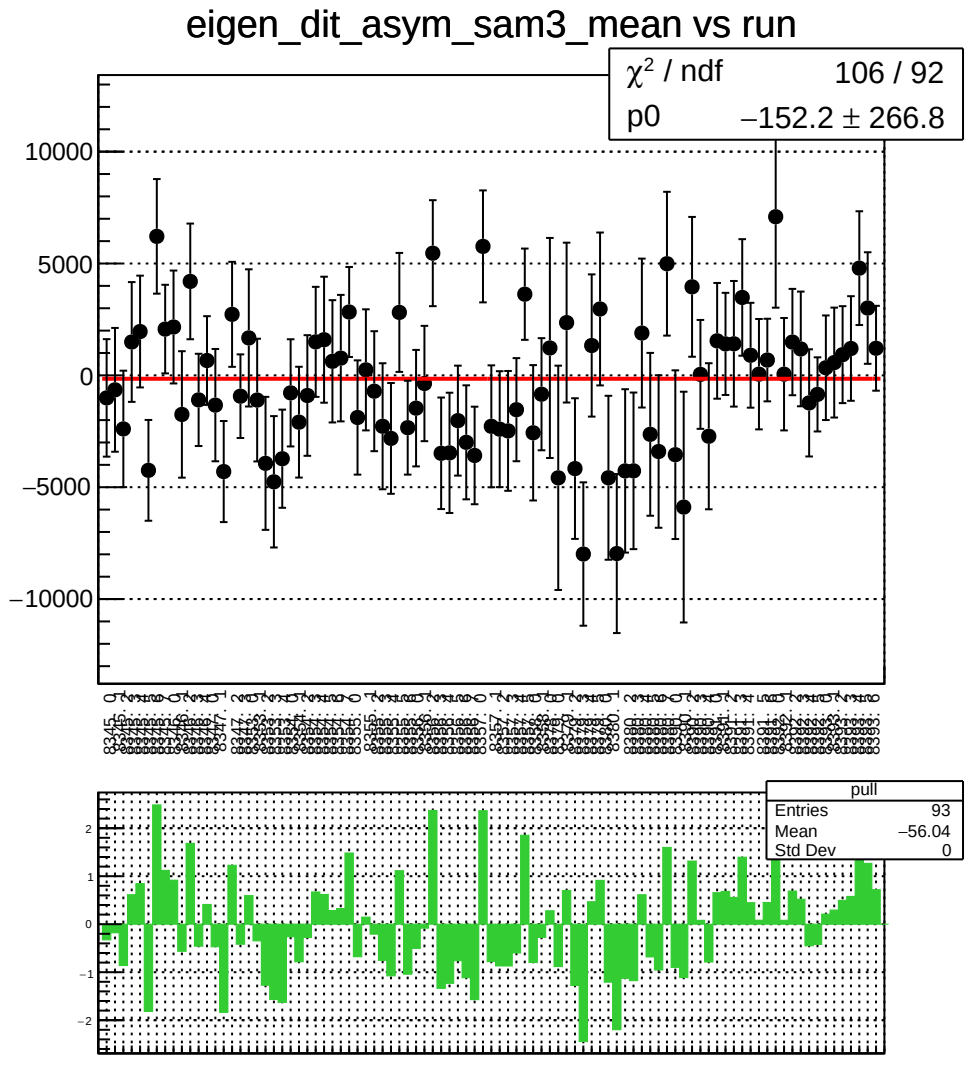

pull1D
Entries 93
Mean −0.03521
Std Dev 1.067
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

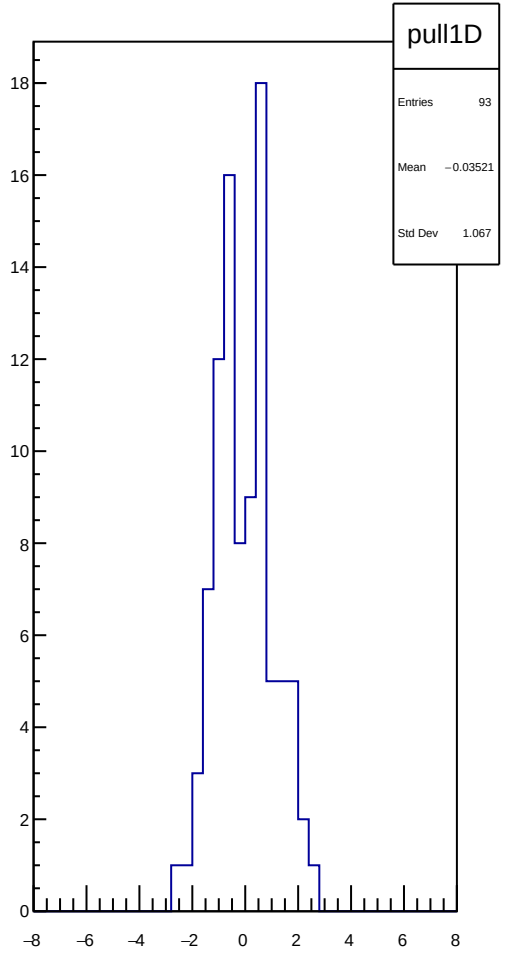

dit_asym_sam3_rms vs run
χ² / ndf 4.282e+04 / 92
p0 251.5 ± 0.1887
500
450
400
350
300
250
200

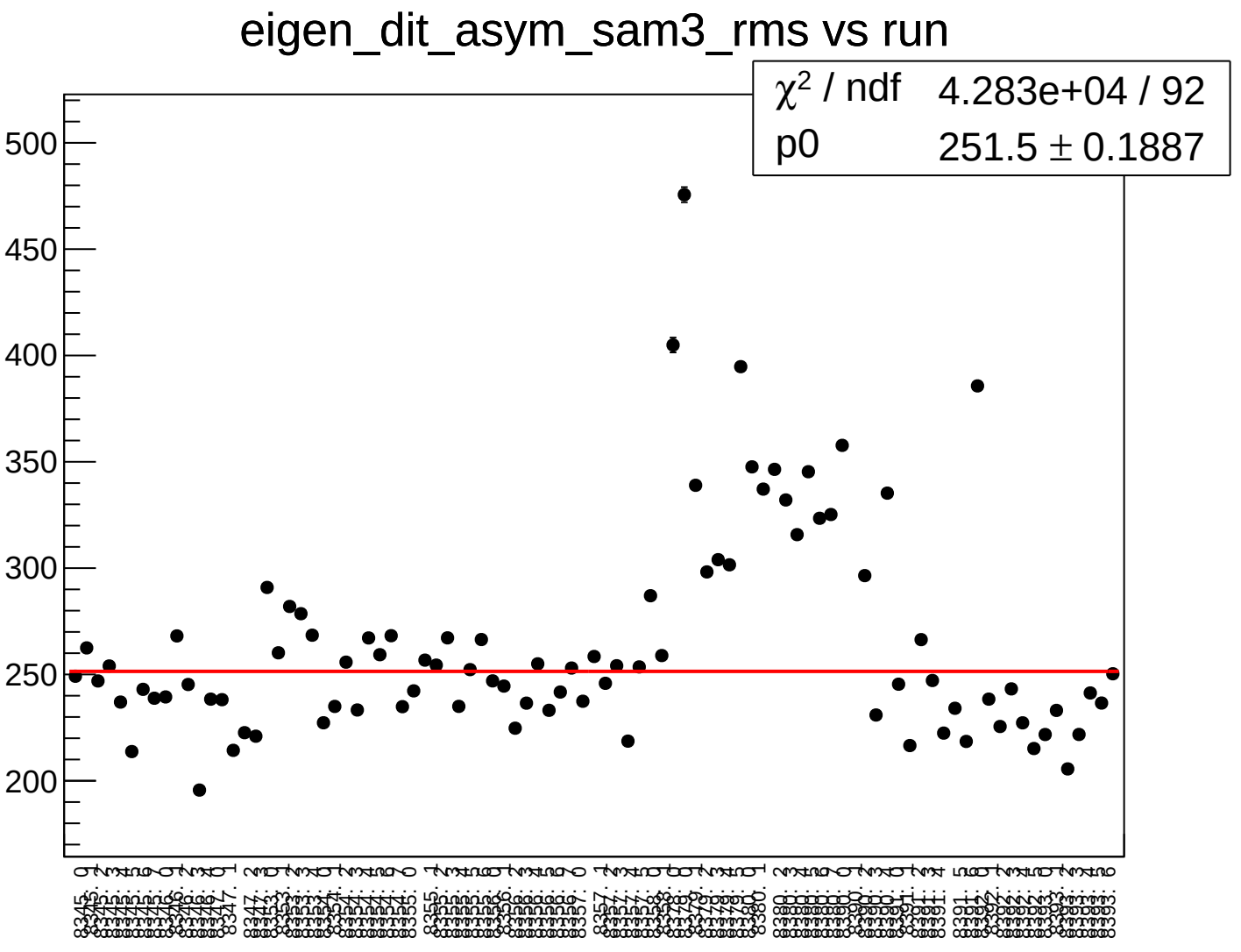

asym_sam3_dit_correction_mean vs run
×10^3
χ² / ndf 116.7 / 92
p0 −9563 ± 2758
100
50
0
−50
−100
pull
Entries 93
Mean −283.3
Std Dev 0
3
2
1
0
−1
−2
−3

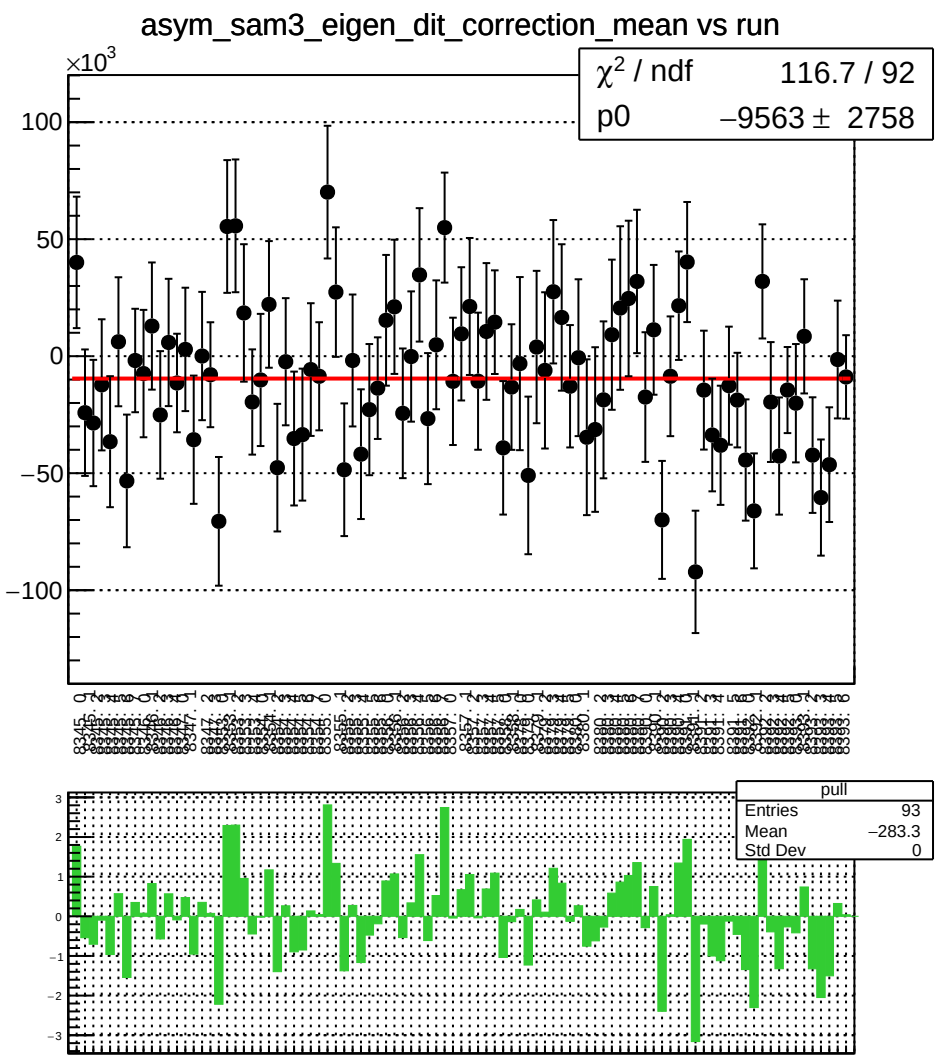

pull1D
Entries 93
Mean 0.01529
Std Dev 1.12
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

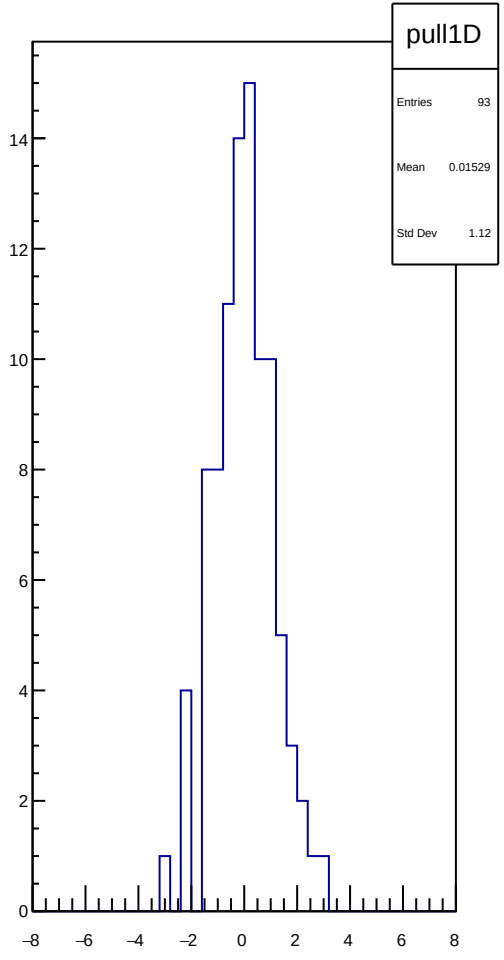

asym_sam3_dit_correction_rms vs run
χ² / ndf 1.311e+04 / 92
p0 2621 ± 1.95
3400
3200
3000
2800
2600
2400
2200

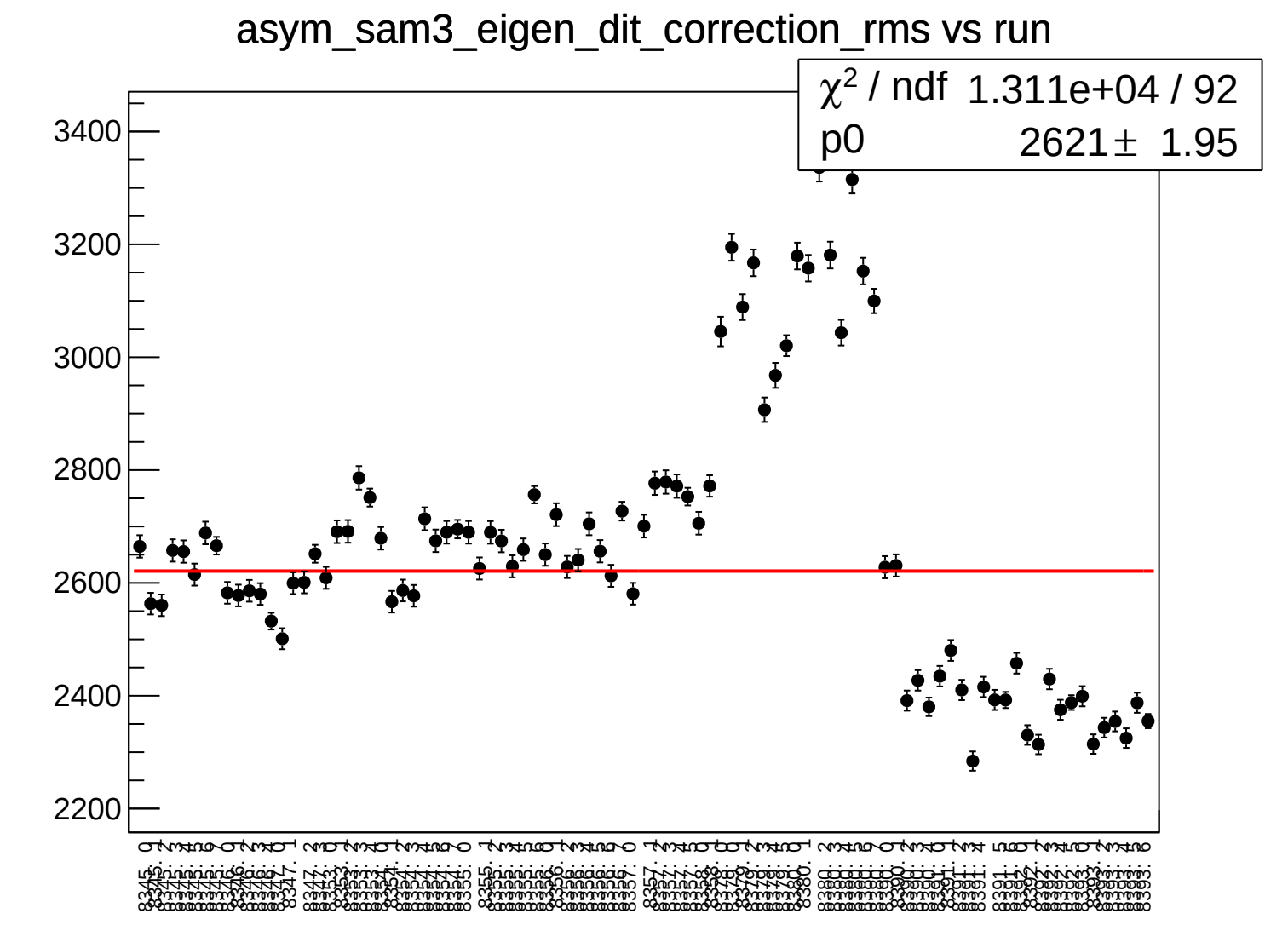

eigen_dit_asym_sam3_mean vs run
χ² / ndf 106 / 92
p0 −152.2 ± 266.8
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −56.04
Std Dev 0
2
1
0
−1
−2

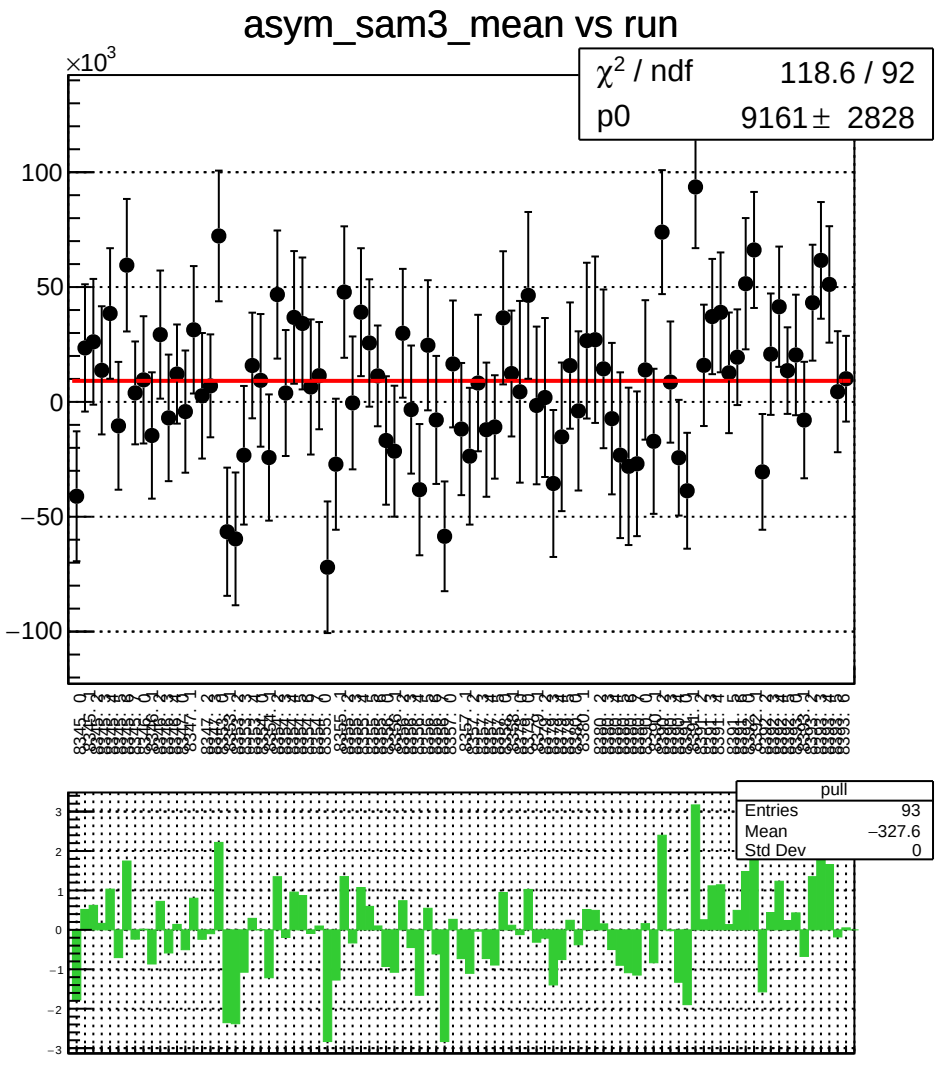

pull1D
Entries 93
Mean −0.03521
Std Dev 1.067
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

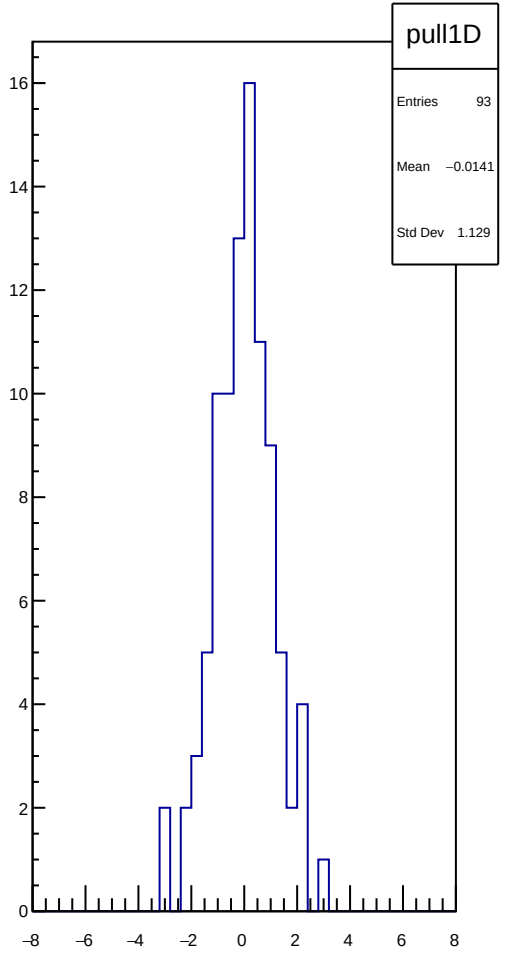

eigen_dit_asym_sam3_rms vs run
χ^2 / ndf 4.283e+04 / 92
p0 251.5 ± 0.1887
500
450
400
350
300
250
200

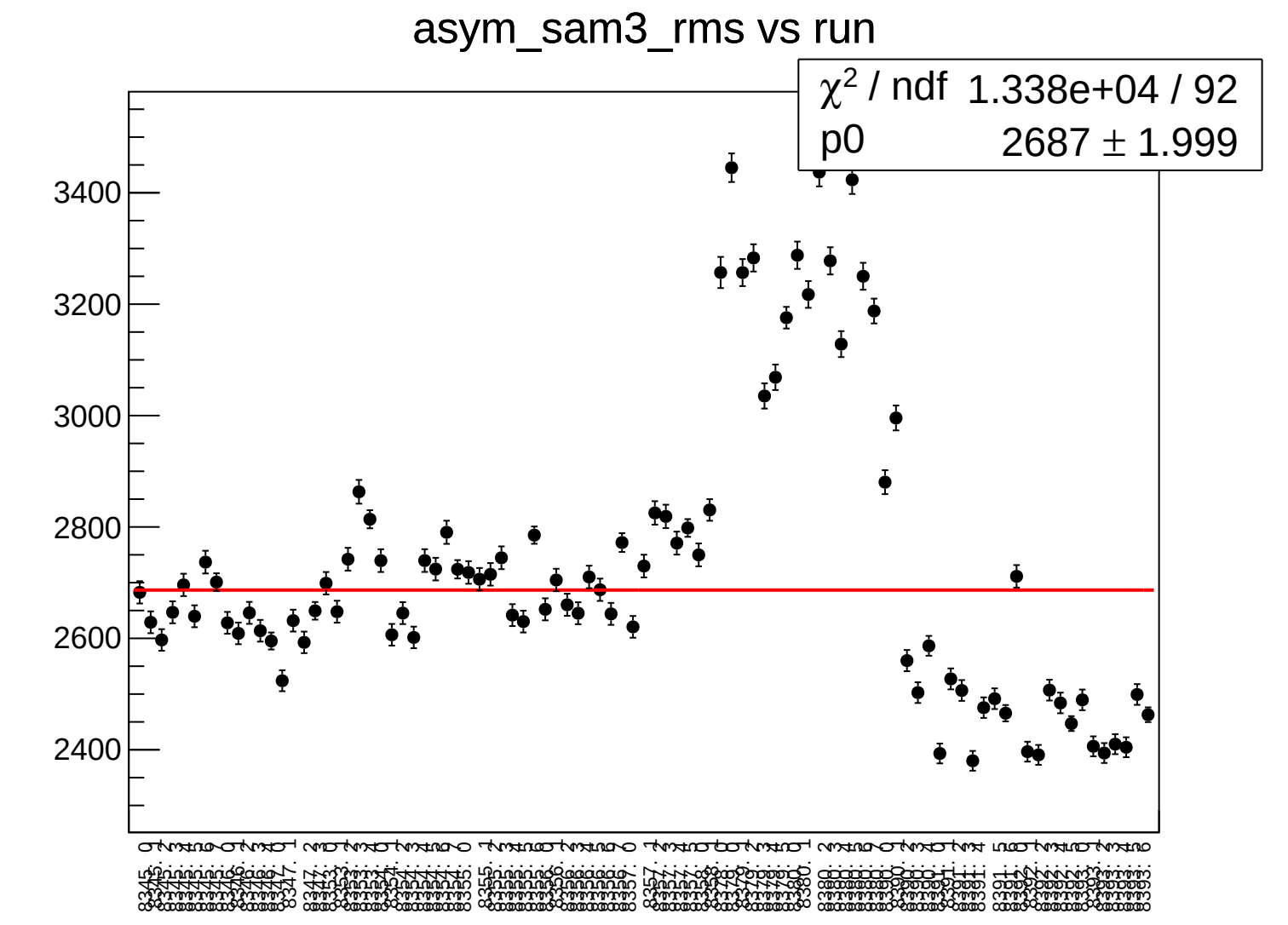

asym_sam3_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 116.7 / 92
p0 −9563 ± 2758
100
50
0
−50
−100
pull
Entries 93
Mean −283.3
Std Dev 0
3
2
1
0
−1
−2
−3

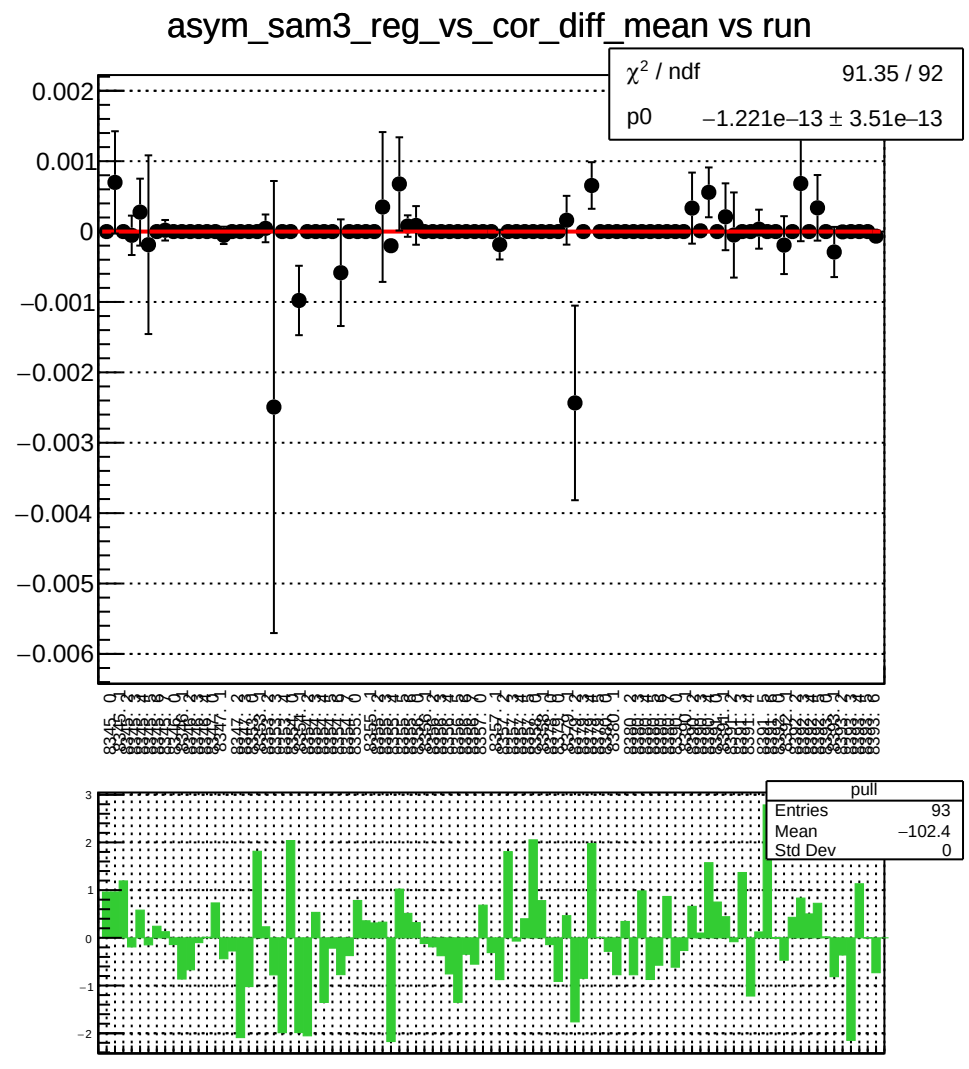

pull1D
Entries 93
Mean 0.01529
Std Dev 1.12
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

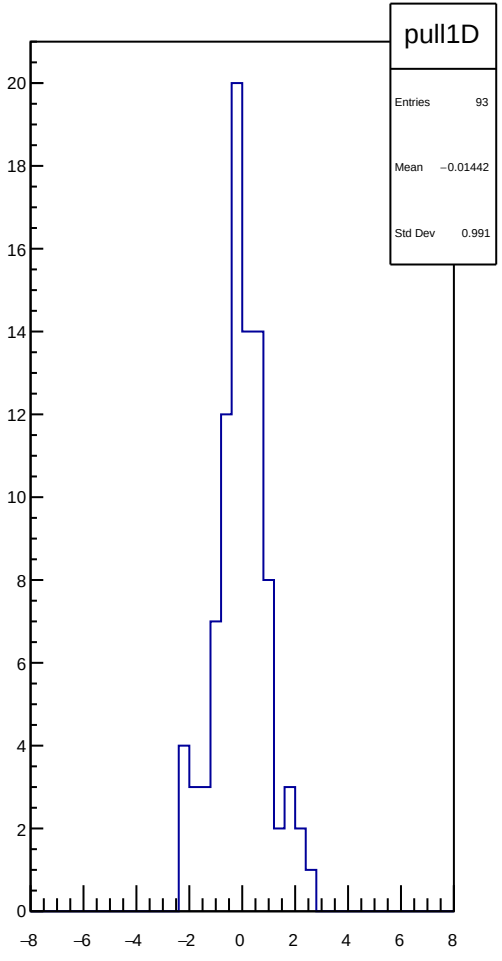

asym_sam3_eigen_dit_correction_rms vs run
χ² / ndf 1.311e+04 / 92
p0 2621 ± 1.95
3400
3200
3000
2800
2600
2400
2200

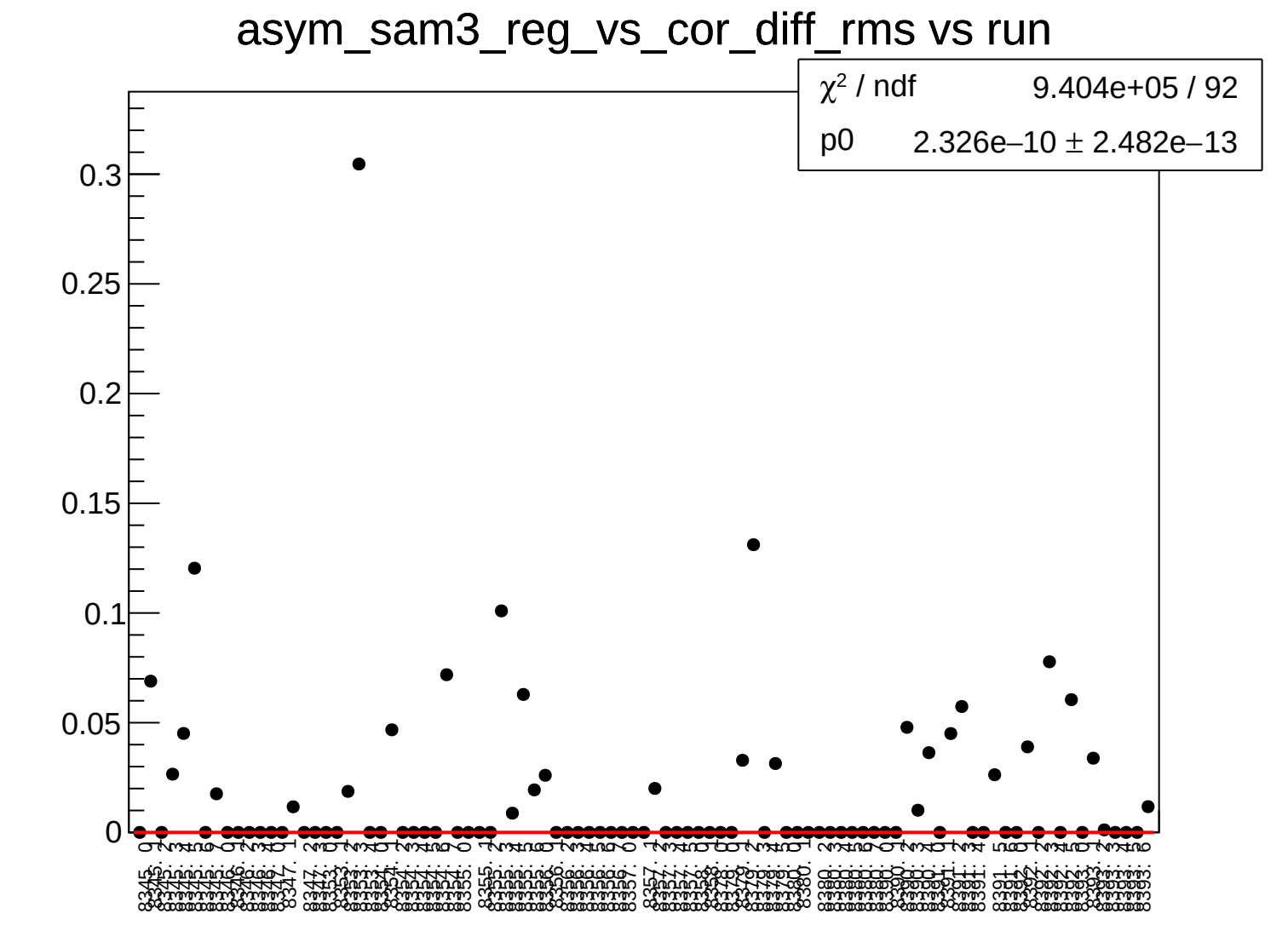

asym_sam3_mean vs run
×10^3
χ^2 / ndf 118.6 / 92
p0 9161 ± 2828
100
50
0
−50
−100
pull
Entries 93
Mean −327.6
Std Dev 0
3
2
1
0
−1
−2
−3

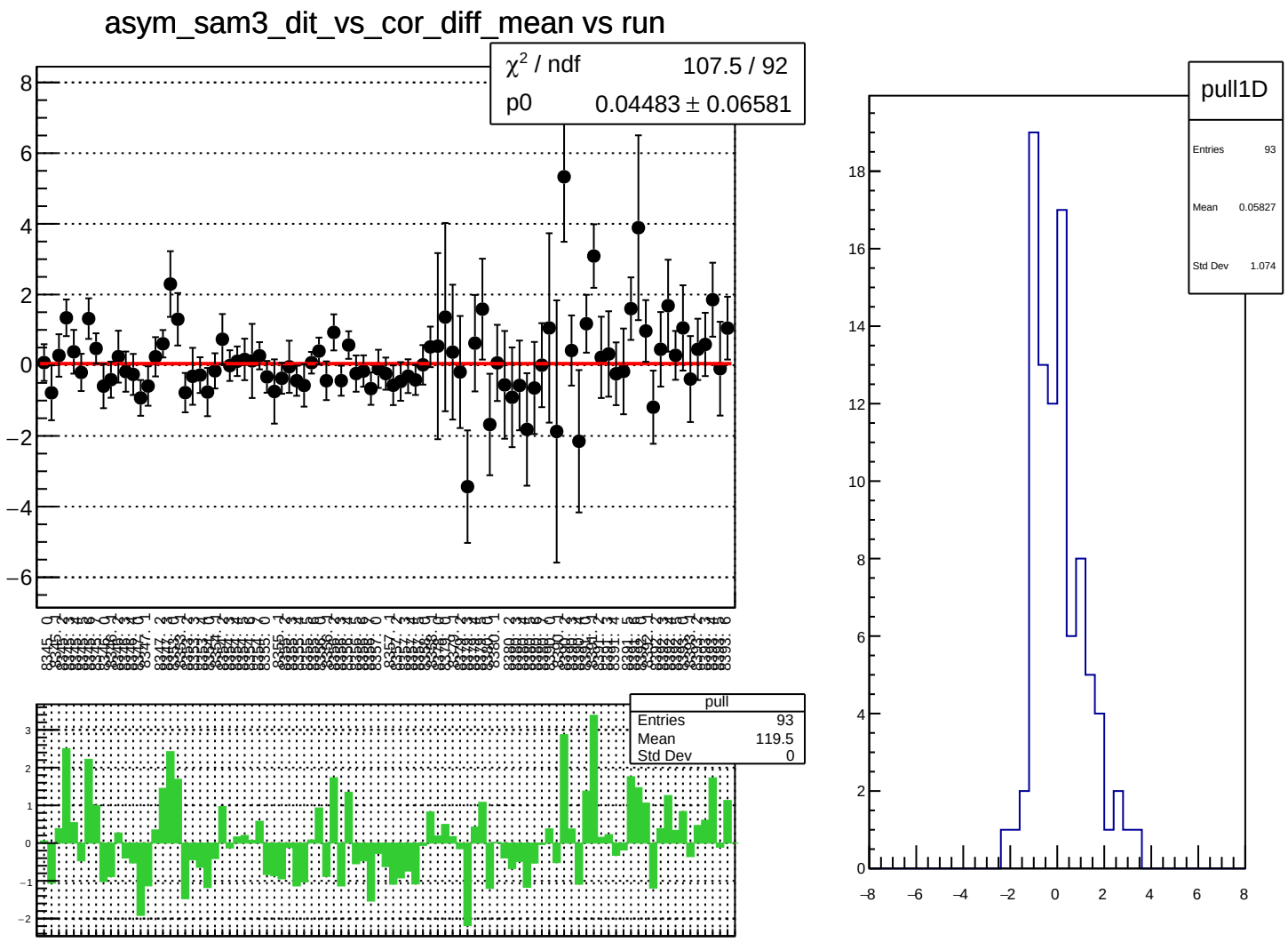

pull1D
Entries 93
Mean −0.0141
Std Dev 1.129
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

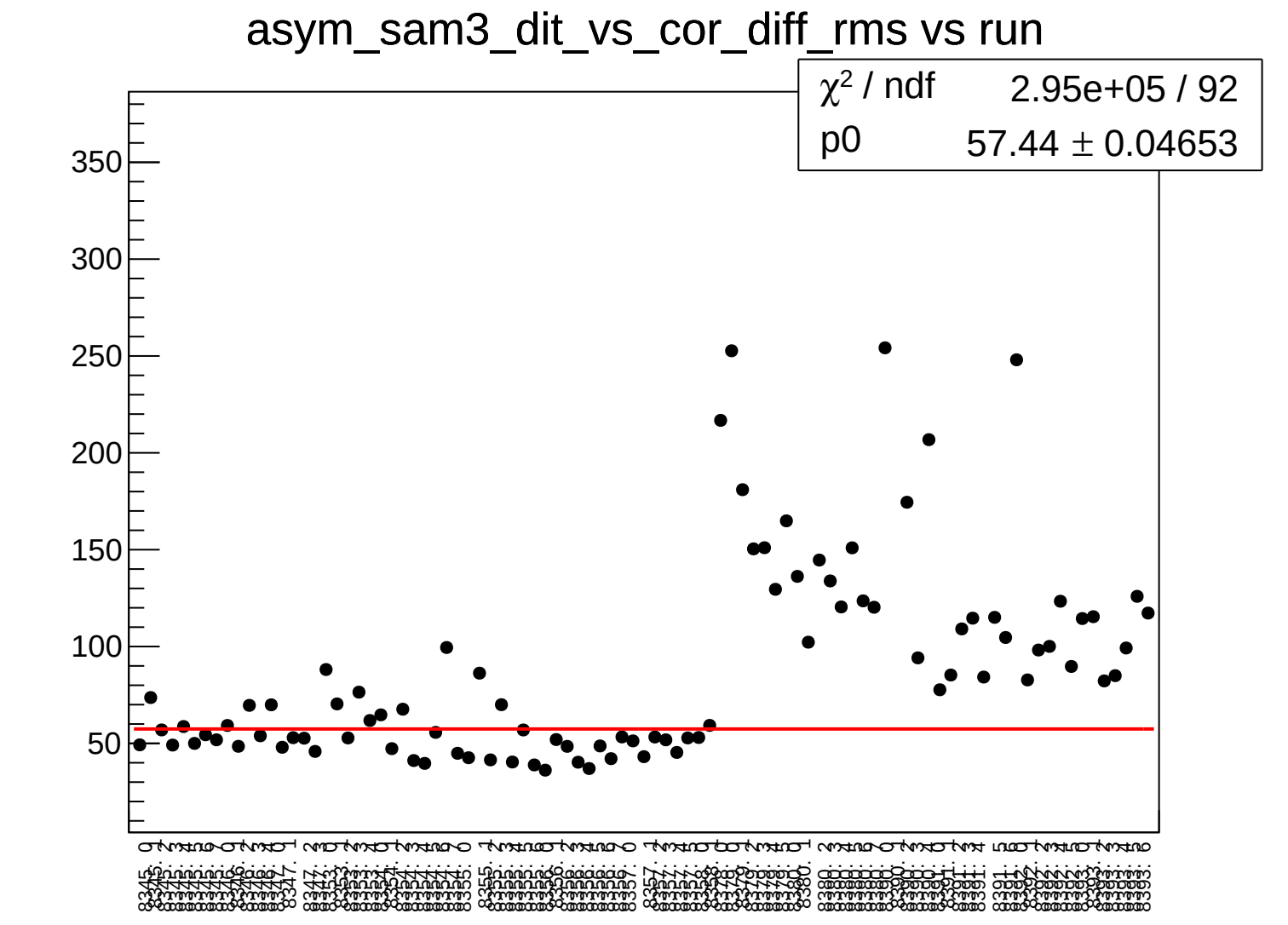

asym_sam3_rms vs run
χ^2 / ndf 1.338e+04 / 92
p0 2687 ± 1.999
3400
3200
3000
2800
2600
2400

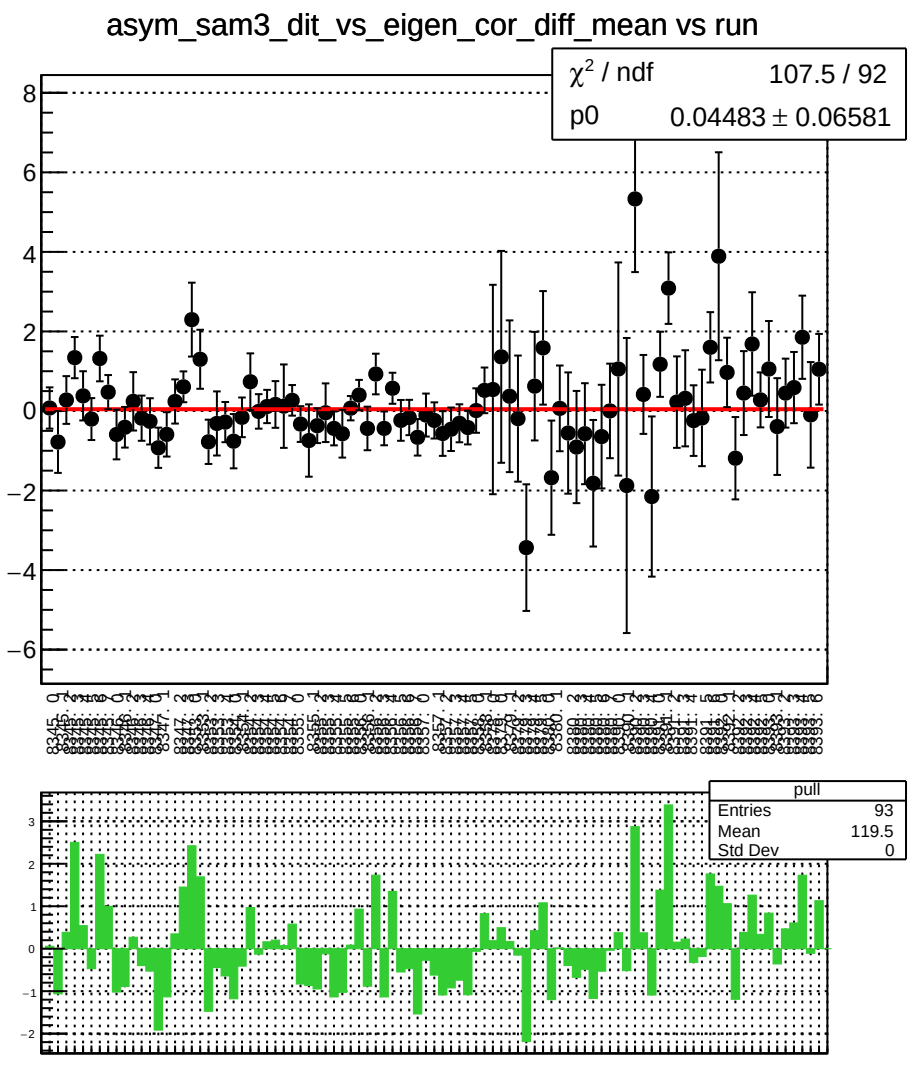

asym_sam3_reg_vs_cor_diff_mean vs run
χ² / ndf 91.35 / 92
p0 −1.221e−13 ± 3.51e−13
pull
Entries 93
Mean −102.4
Std Dev 0

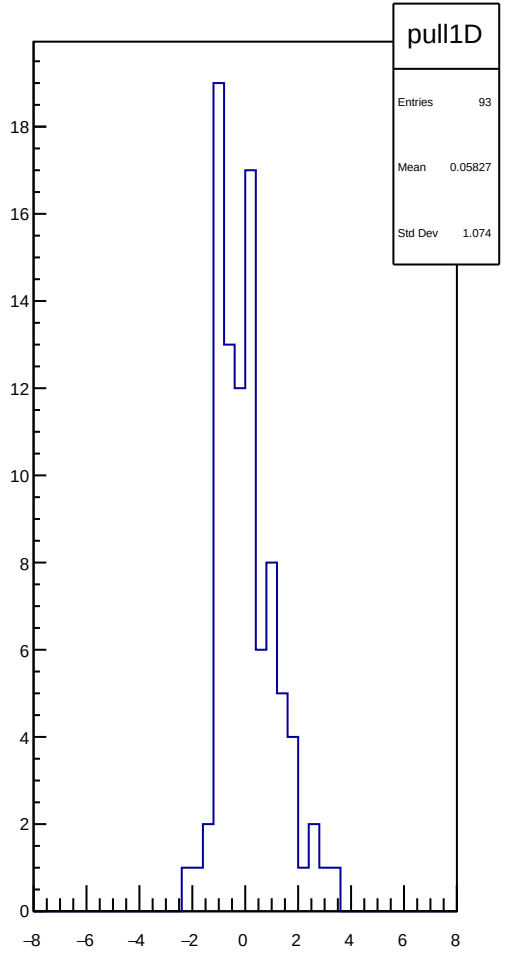

pull1D
Entries 93
Mean −0.01442
Std Dev 0.991

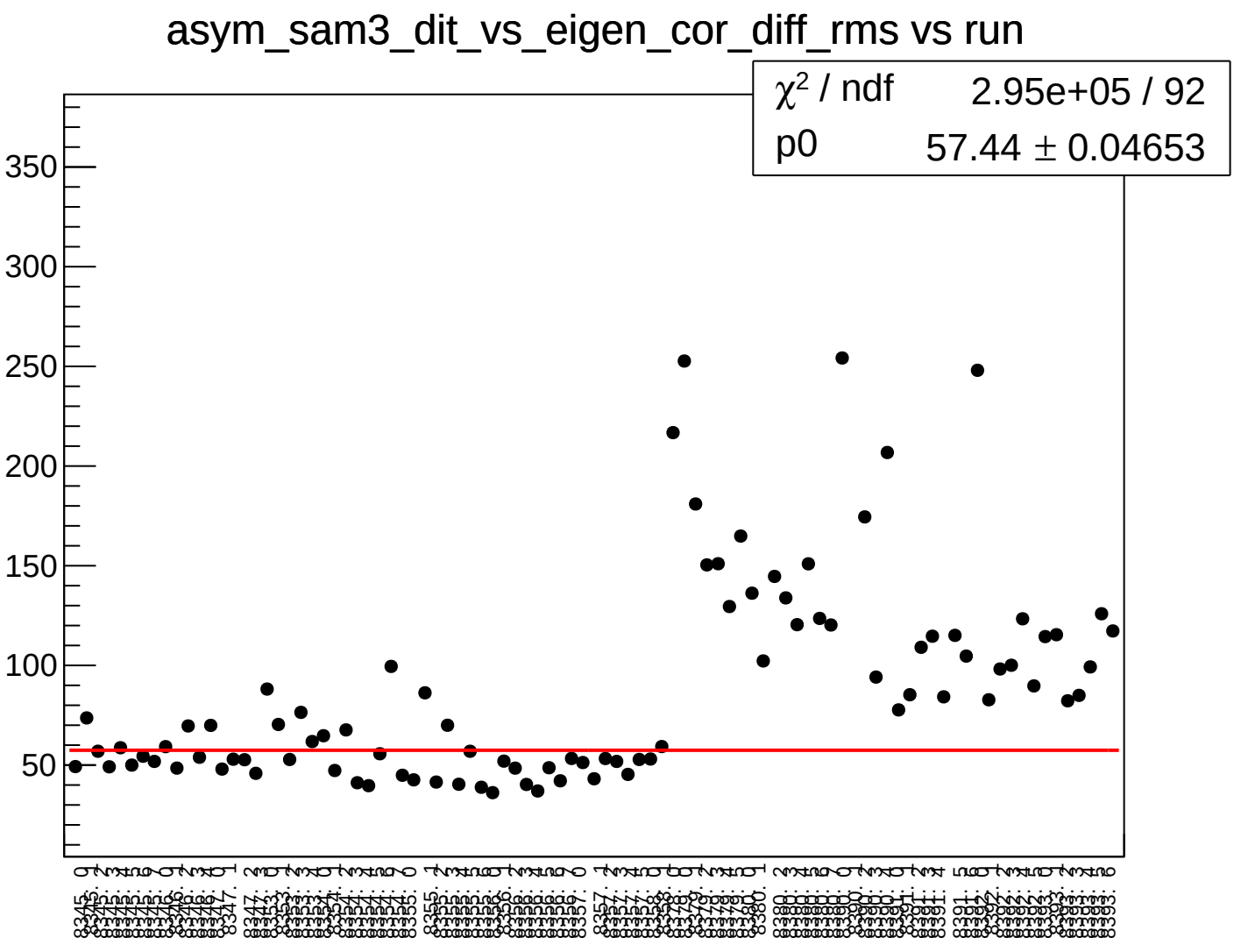

asym_sam3_reg_vs_cor_diff_rms vs run
χ² / ndf 9.404e+05 / 92
p0 2.326e−10 ± 2.482e−13
0.3
0.25
0.2
0.15
0.1
0.05
0

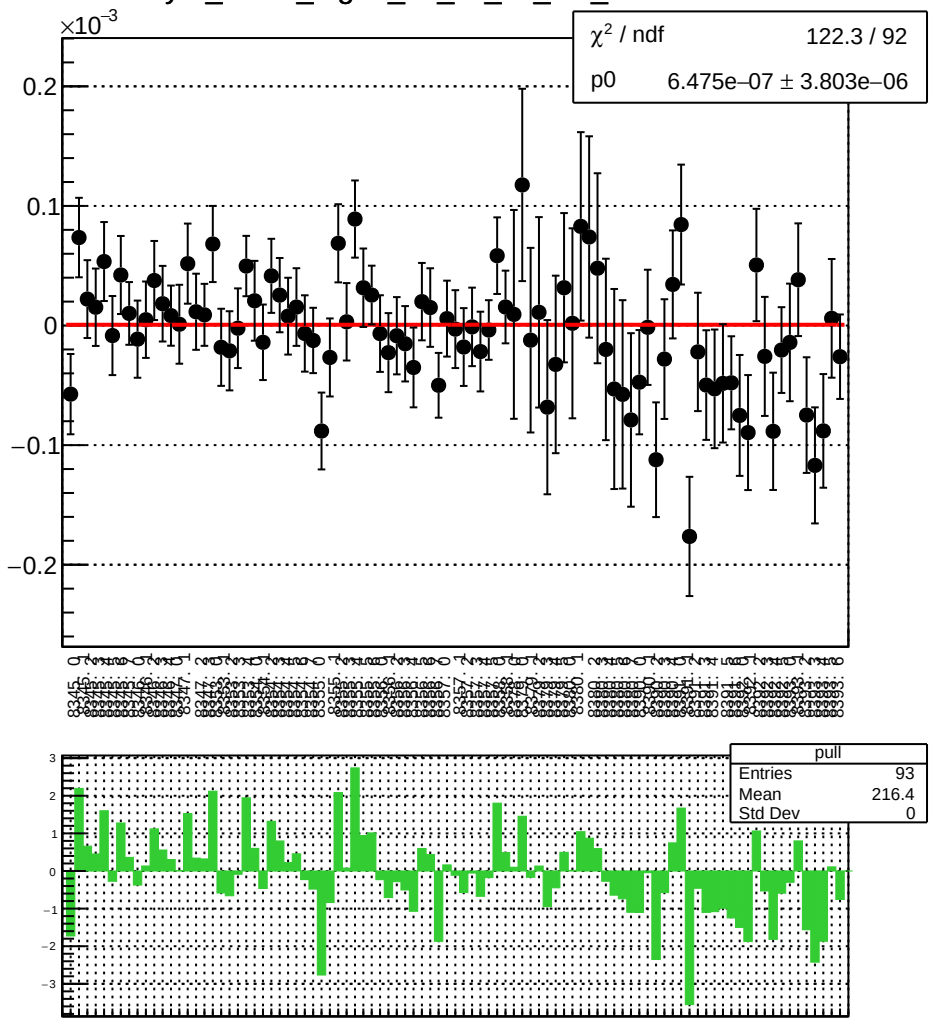

asym_sam3_dit_vs_cor_diff_mean vs run
χ² / ndf 107.5 / 92
p0 0.04483 ± 0.06581
pull
Entries 93
Mean 119.5
Std Dev 0
pull1D
Entries 93
Mean 0.05827
Std Dev 1.074

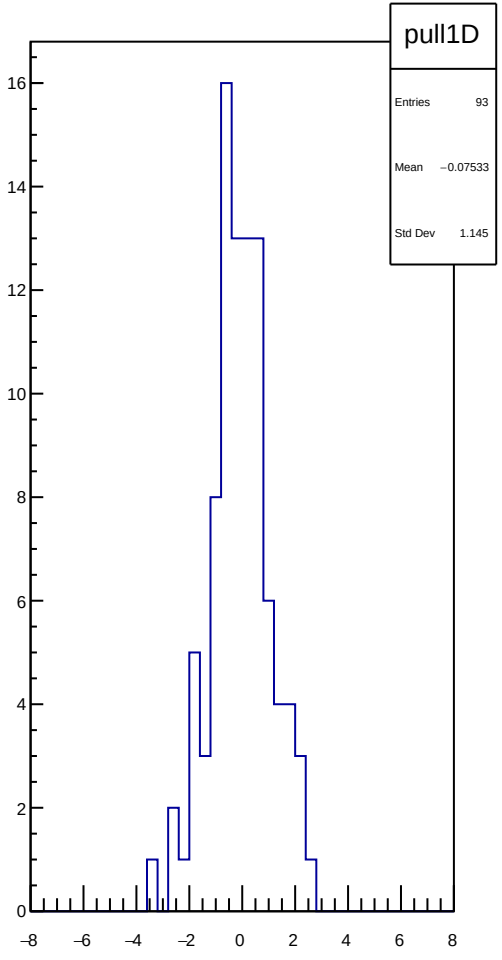

asym_sam3_dit_vs_cor_diff_rms vs run
χ² / ndf 2.95e+05 / 92
p0 57.44 ± 0.04653
350
300
250
200
150
100
50

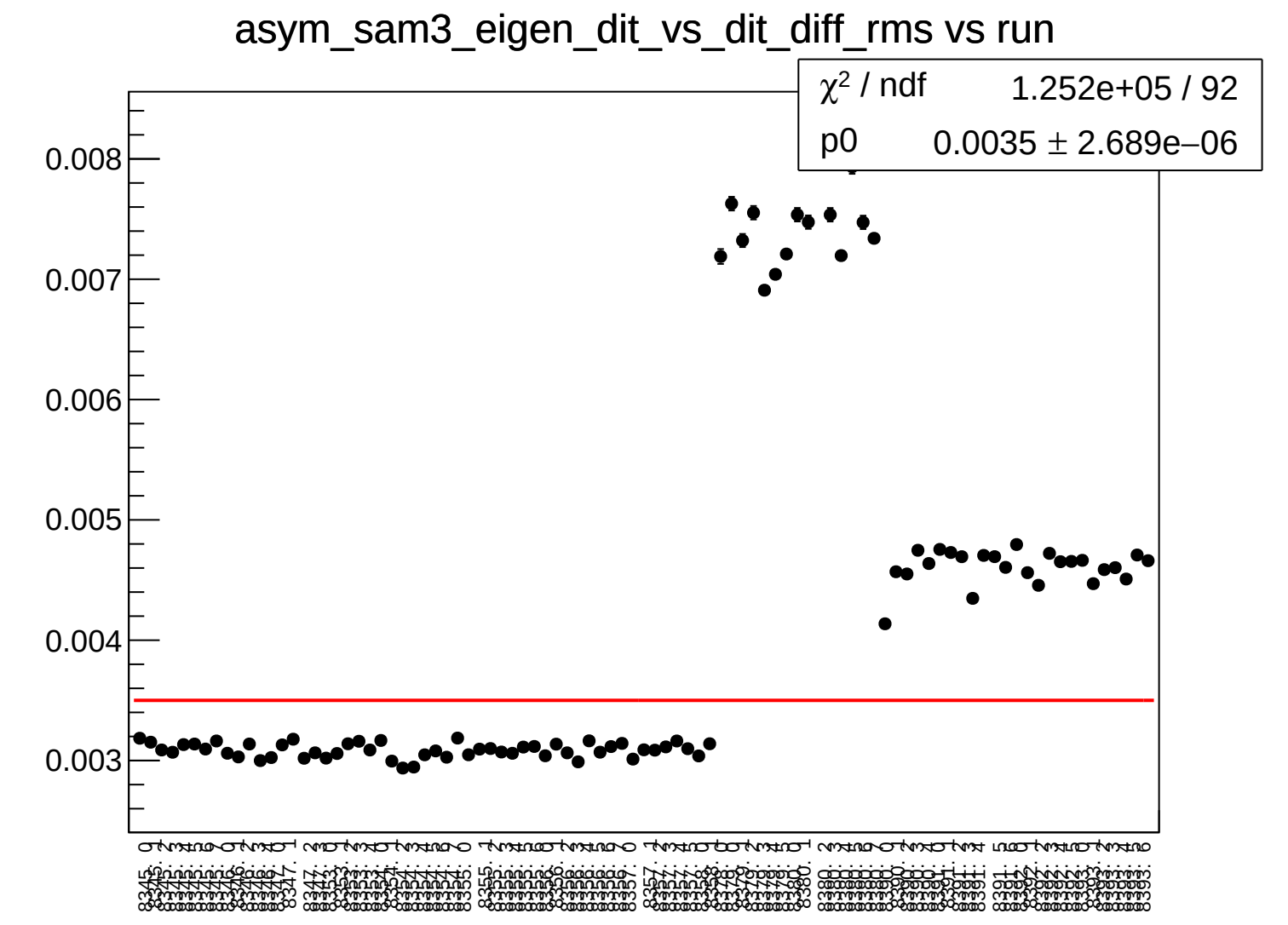

asym_sam3_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.5 / 92
p0 0.04483 ± 0.06581
pull
Entries 93
Mean 119.5
Std Dev 0

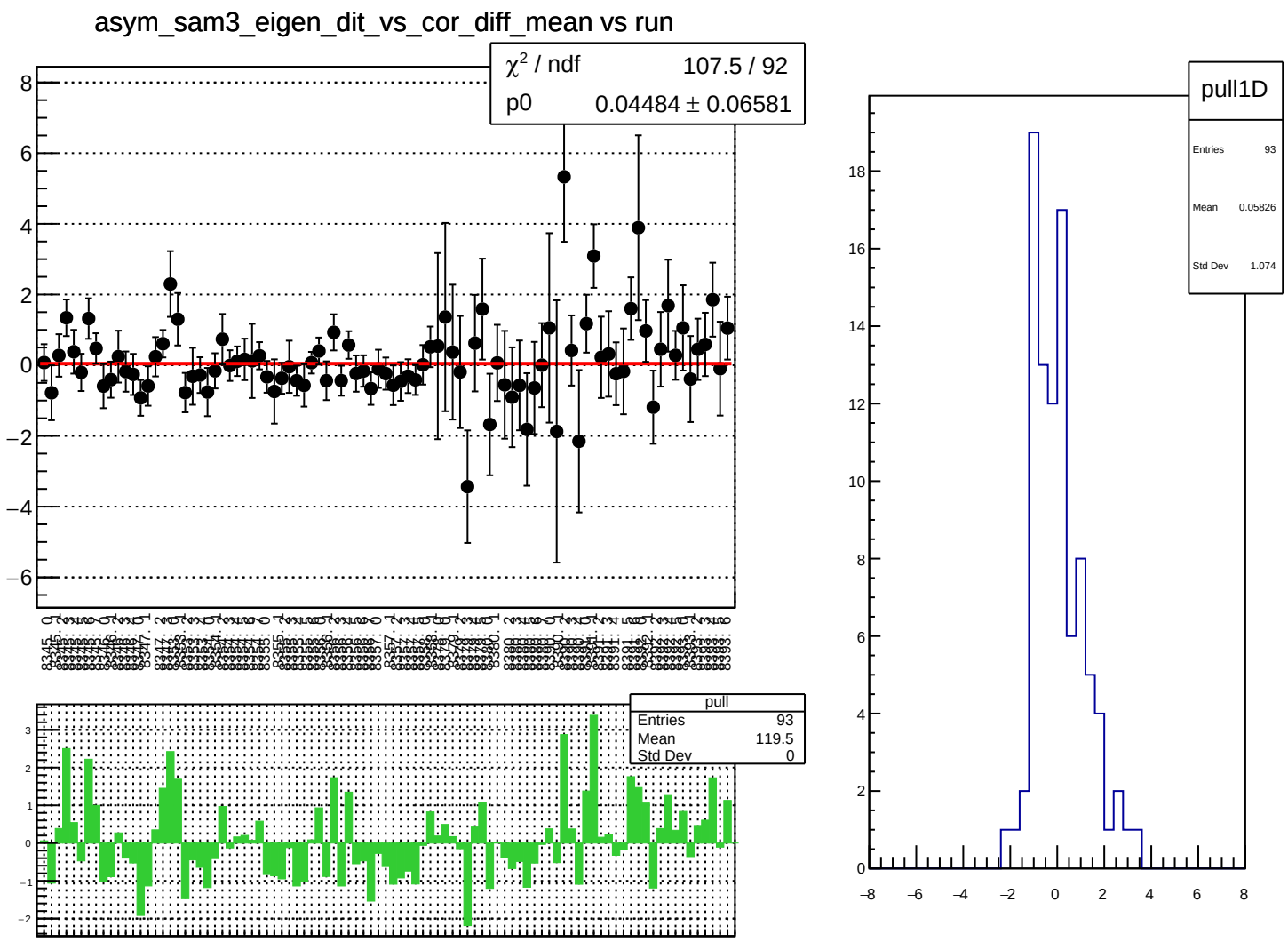

pull1D
Entries 93
Mean 0.05827
Std Dev 1.074

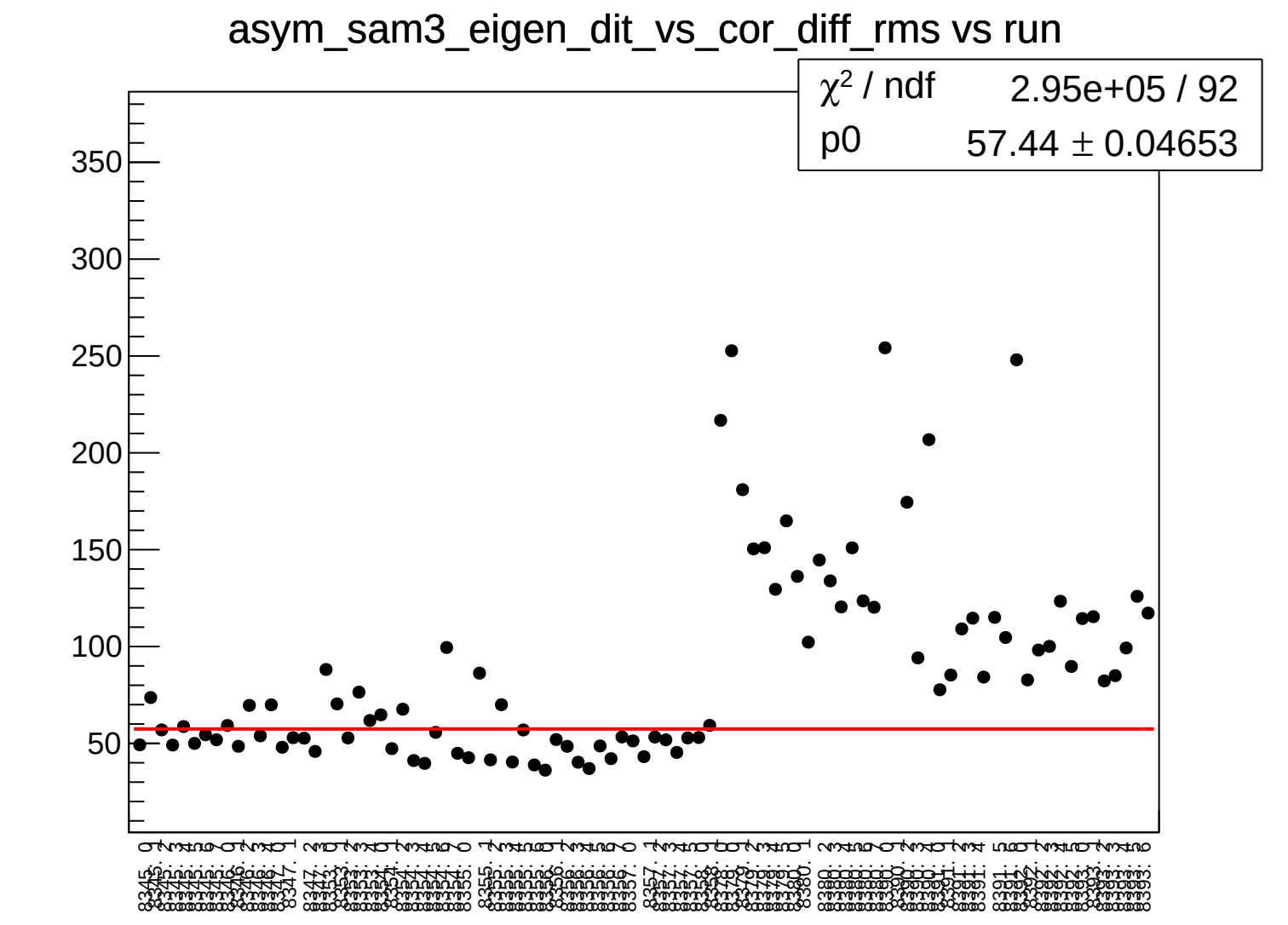

asym_sam3_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.95e+05 / 92
p0 57.44 ± 0.04653
350
300
250
200
150
100
50

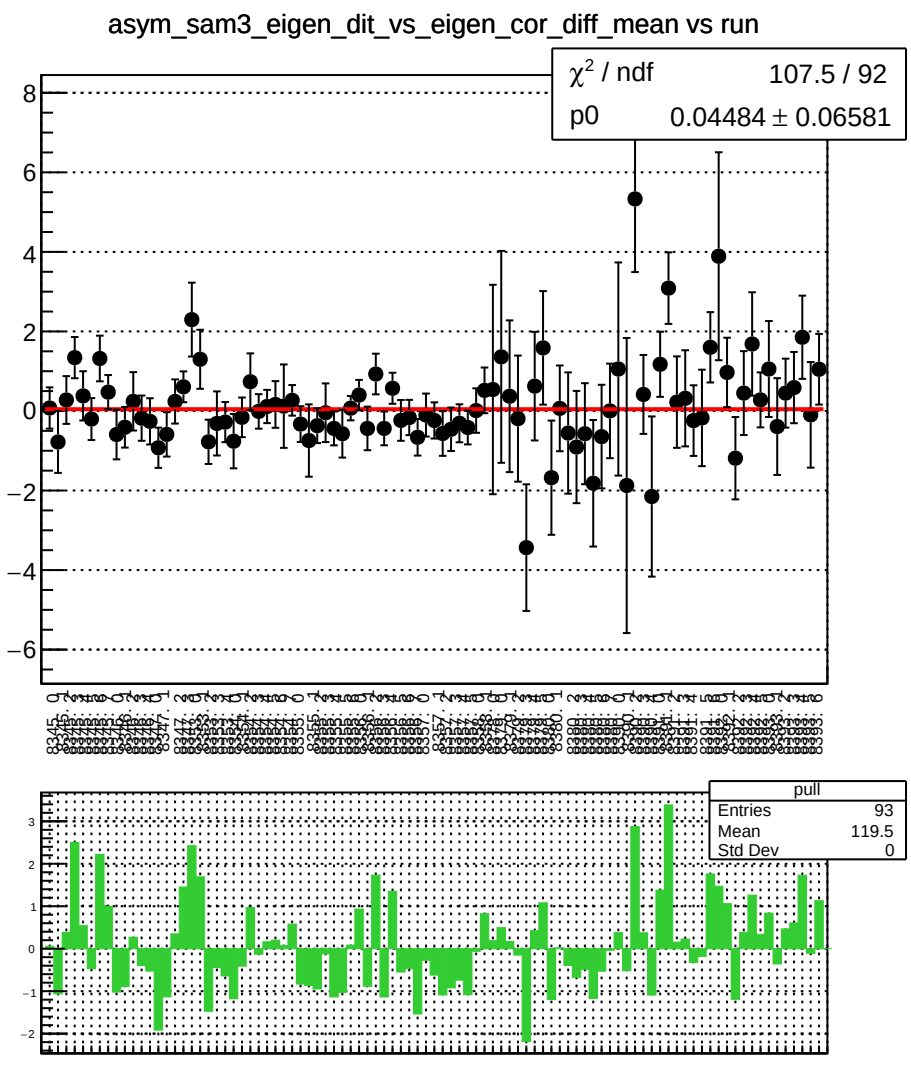

asym_sam3_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 122.3 / 92
p0 6.475e−07 ± 3.803e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 93
Mean 216.4
Std Dev 0
3
2
1
0
−1
−2
−3

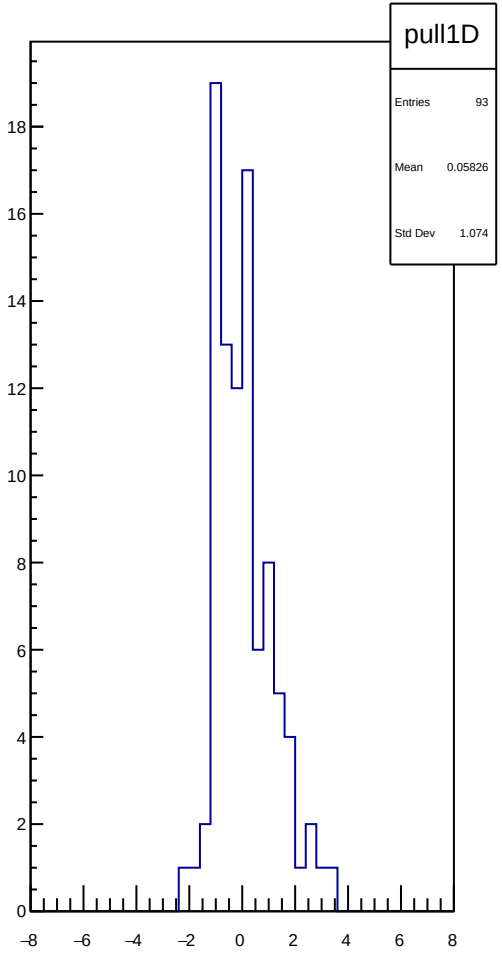

pull1D
Entries 93
Mean −0.07533
Std Dev 1.145
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

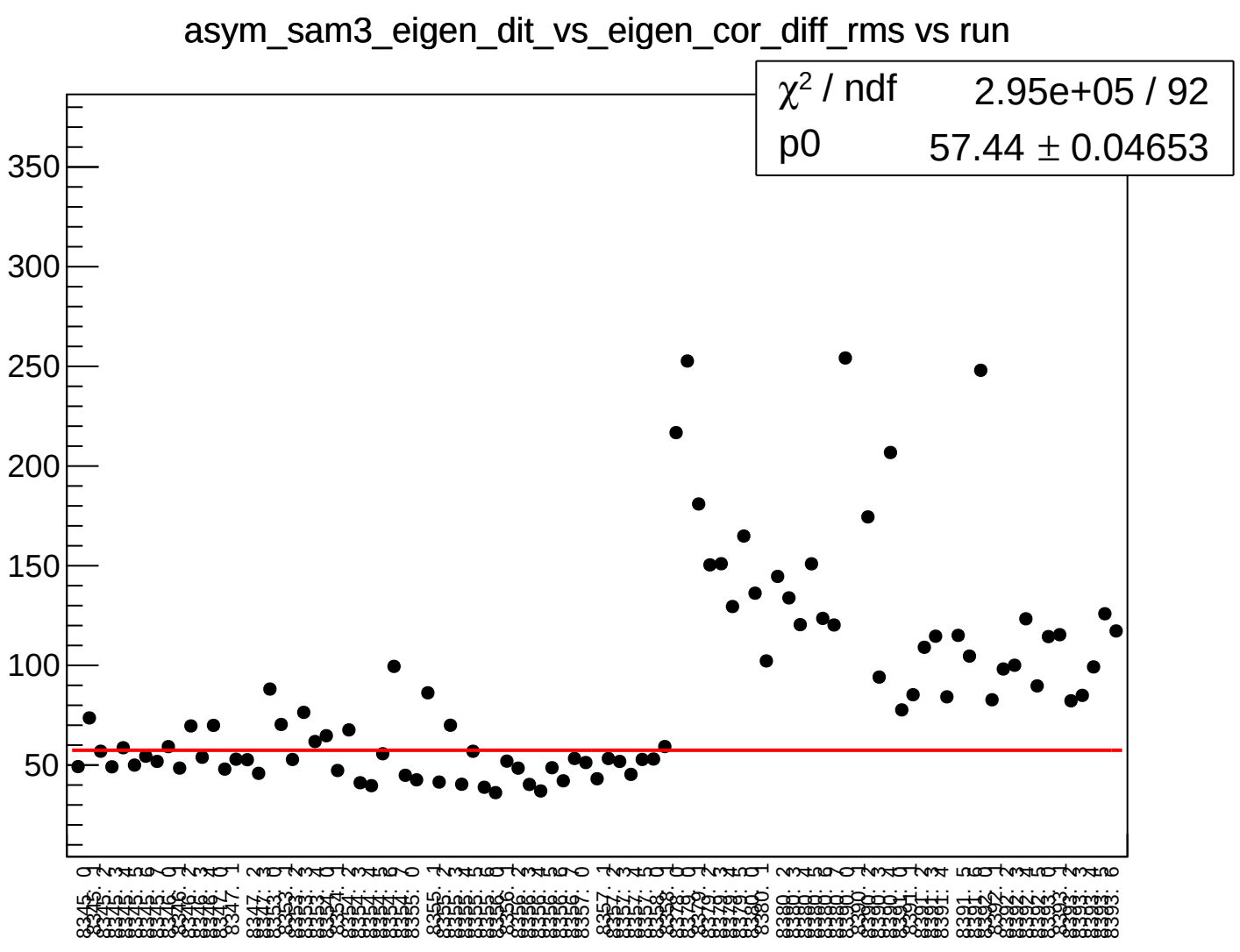

asym_sam3_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.252e+05 / 92
p0 0.0035 ± 2.689e−06
0.008
0.007
0.006
0.005
0.004
0.003

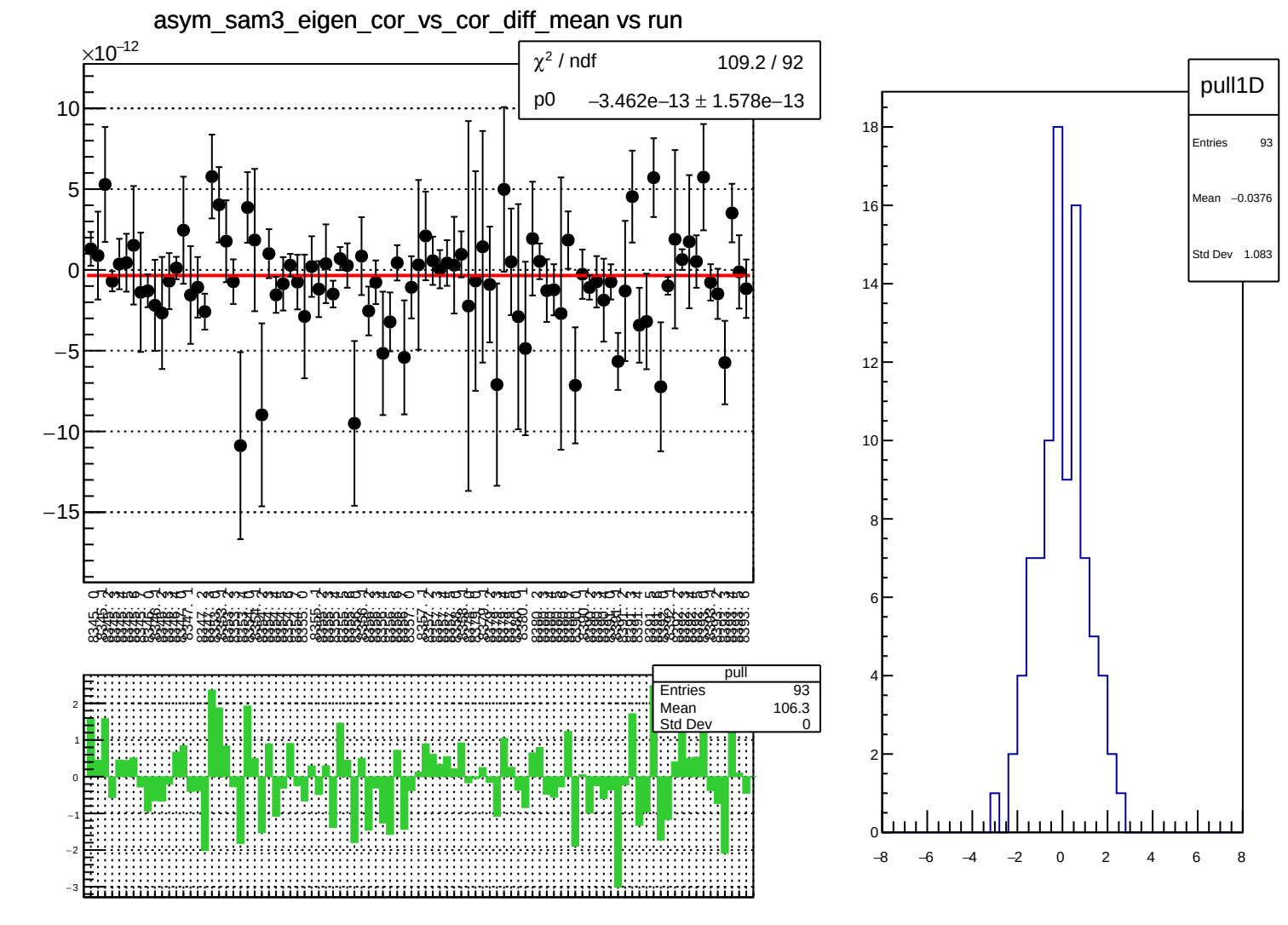

asym_sam3_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 107.5 / 92
p0 0.04484 ± 0.06581
pull
Entries 93
Mean 119.5
Std Dev 0
pull1D
Entries 93
Mean 0.05826
Std Dev 1.074

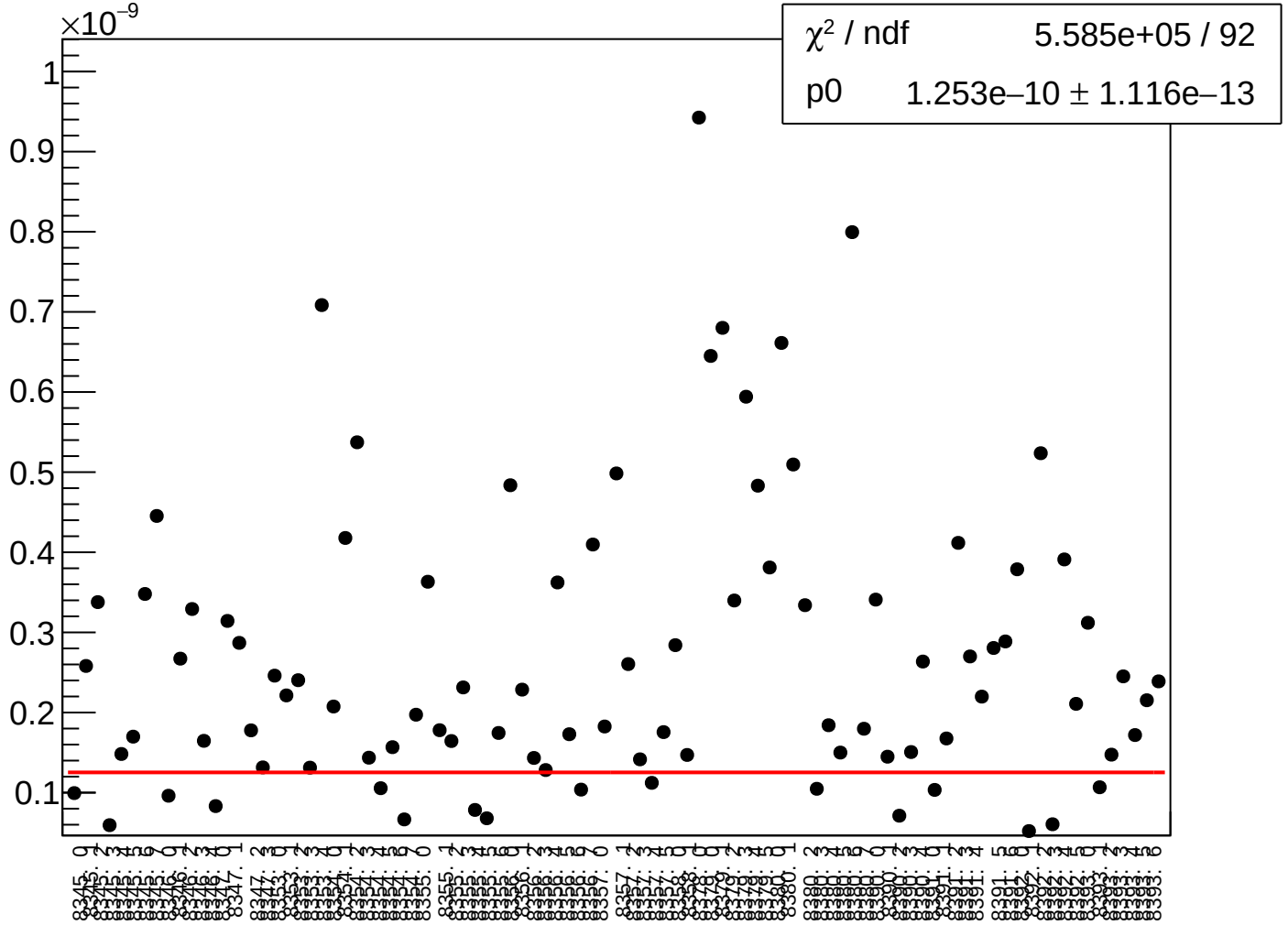

asym_sam3_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.95e+05 / 92
p0 57.44 ± 0.04653
350
300
250
200
150
100
50

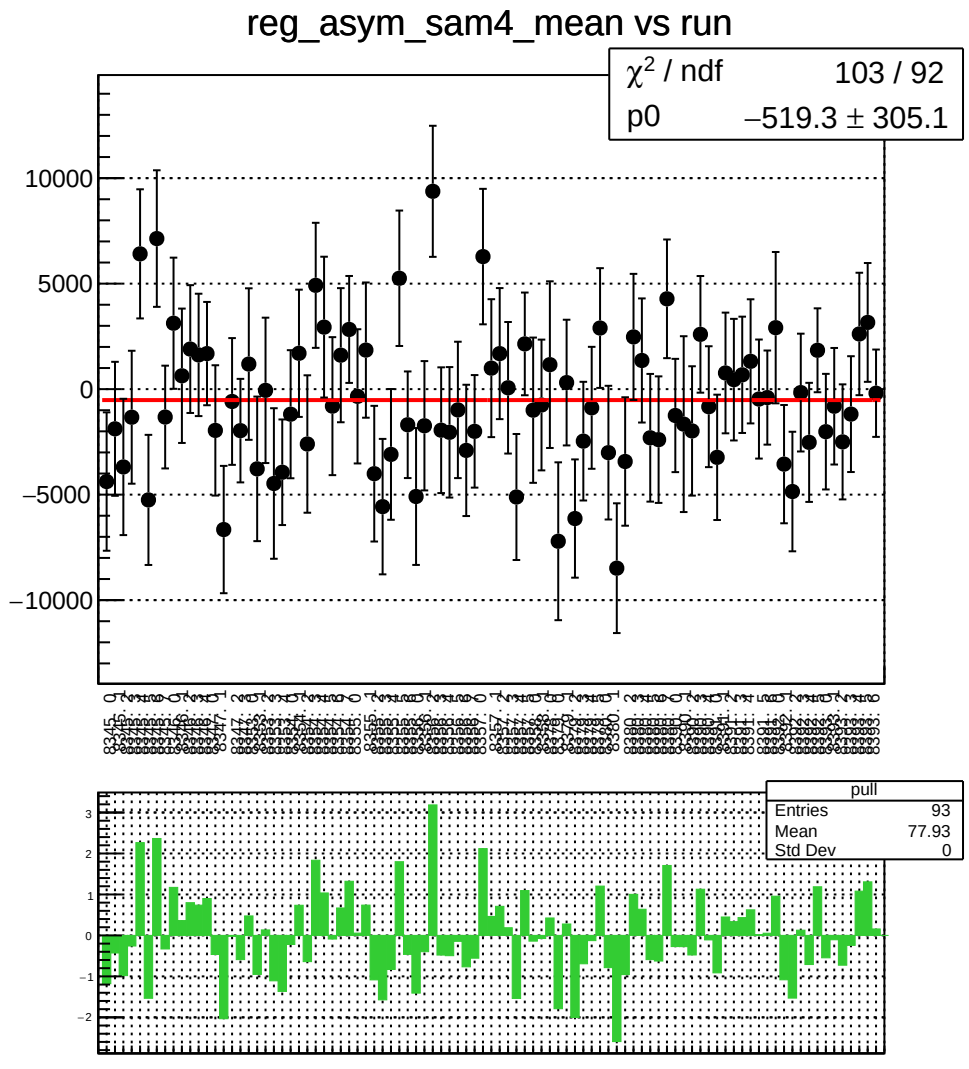

asym_sam3_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.5 / 92
p0 0.04484 ± 0.06581
pull
Entries 93
Mean 119.5
Std Dev 0

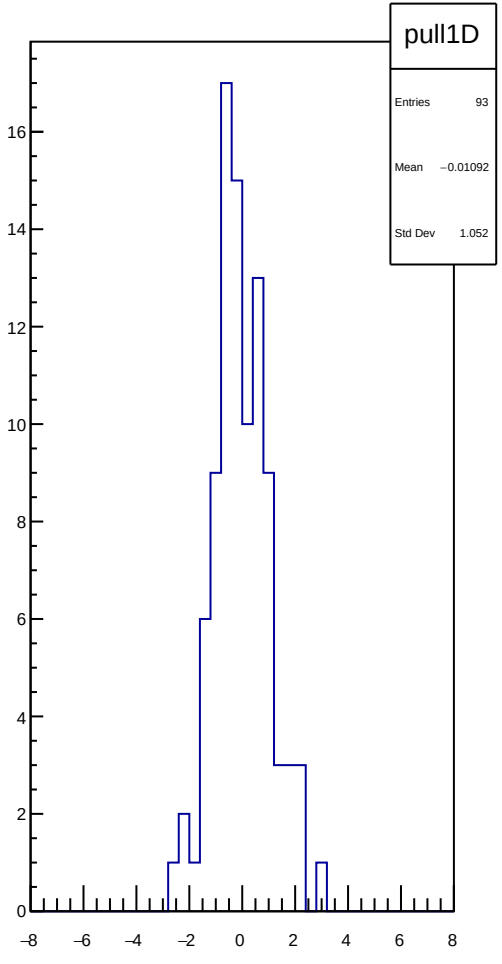

pull1D
Entries 93
Mean 0.05826
Std Dev 1.074

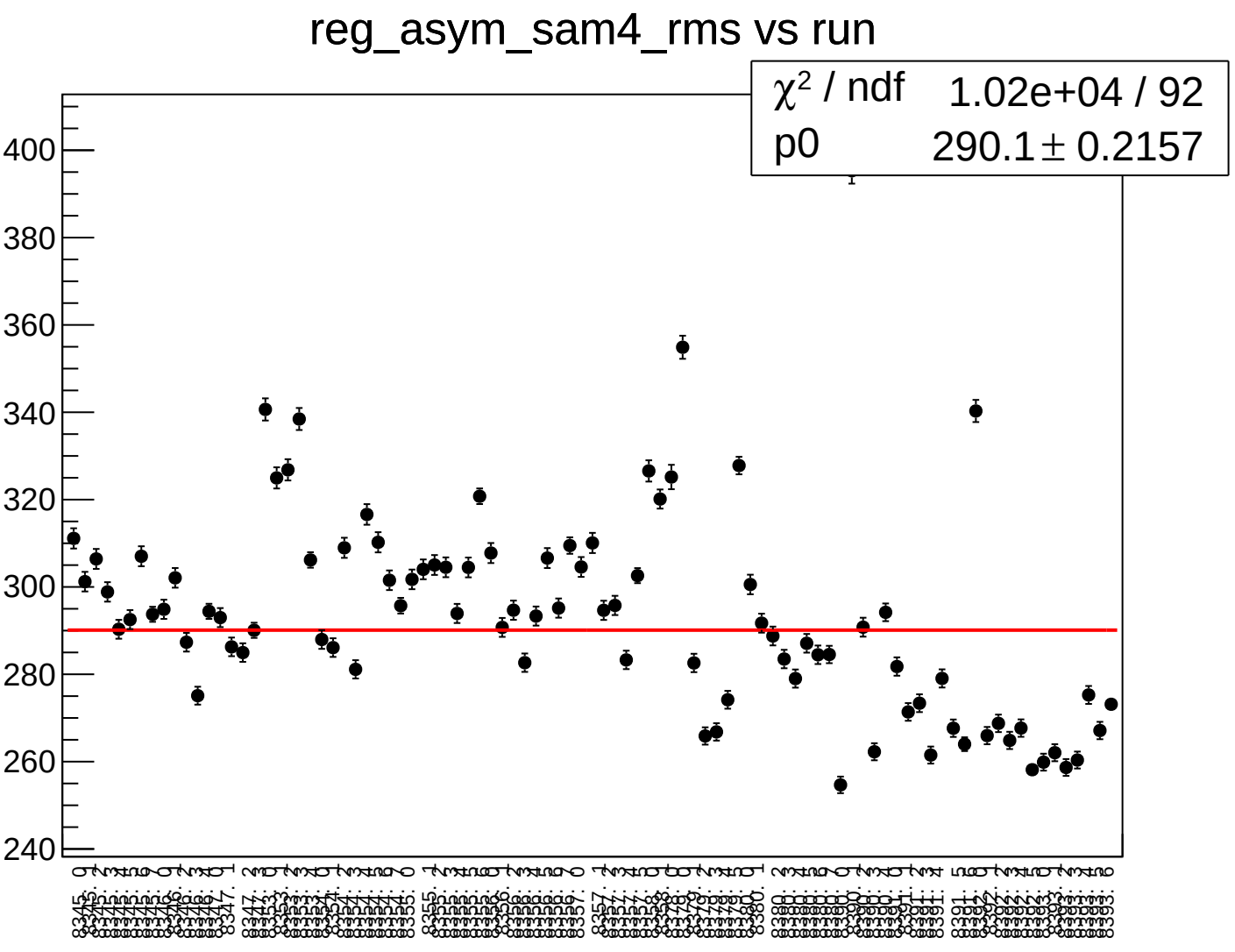

asym_sam3_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.95e+05 / 92
p0 57.44 ± 0.04653
350
300
250
200
150
100
50

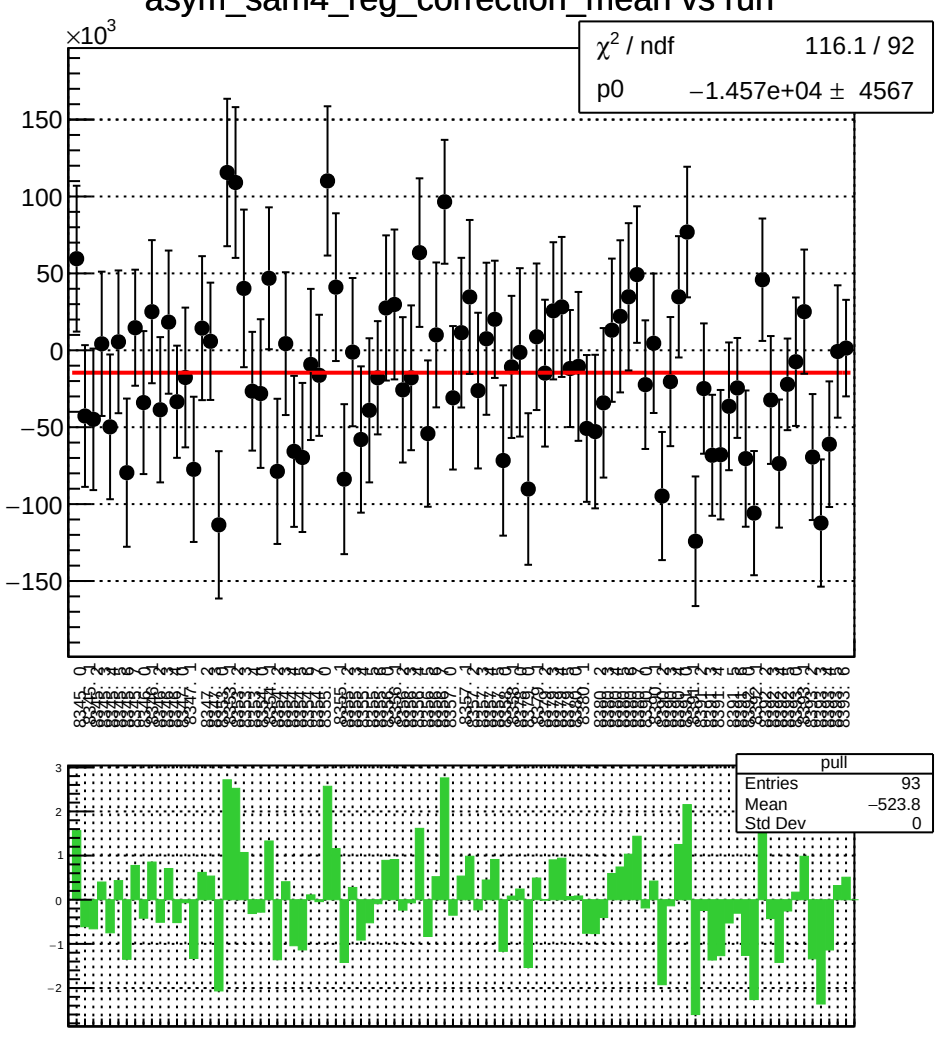

asym_sam3_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 109.2 / 92
p0 −3.462e−13 ± 1.578e−13
pull
Entries 93
Mean 106.3
Std Dev 0
pull1D
Entries 93
Mean −0.0376
Std Dev 1.083

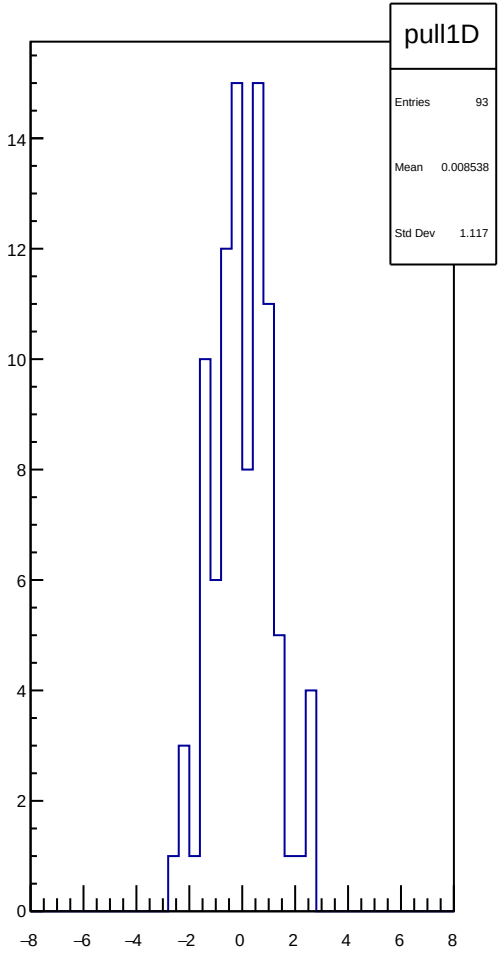

asym_sam3_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.585e+05 / 92
p0 1.253e−10 ± 1.116e−13
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

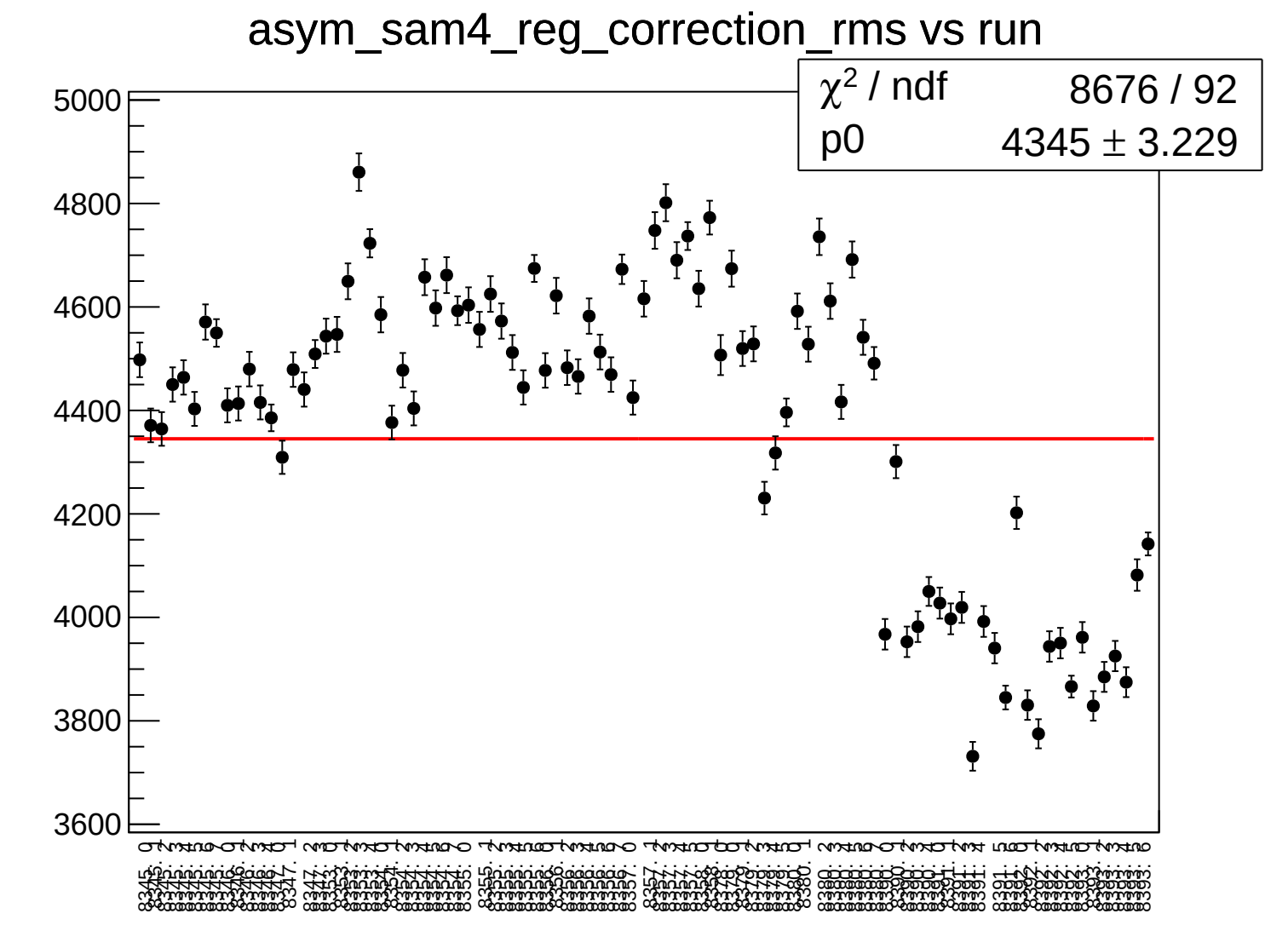

reg_asym_sam4_mean vs run
χ² / ndf 103 / 92
p0 −519.3 ± 305.1
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 77.93
Std Dev 0
3
2
1
0
−1
−2

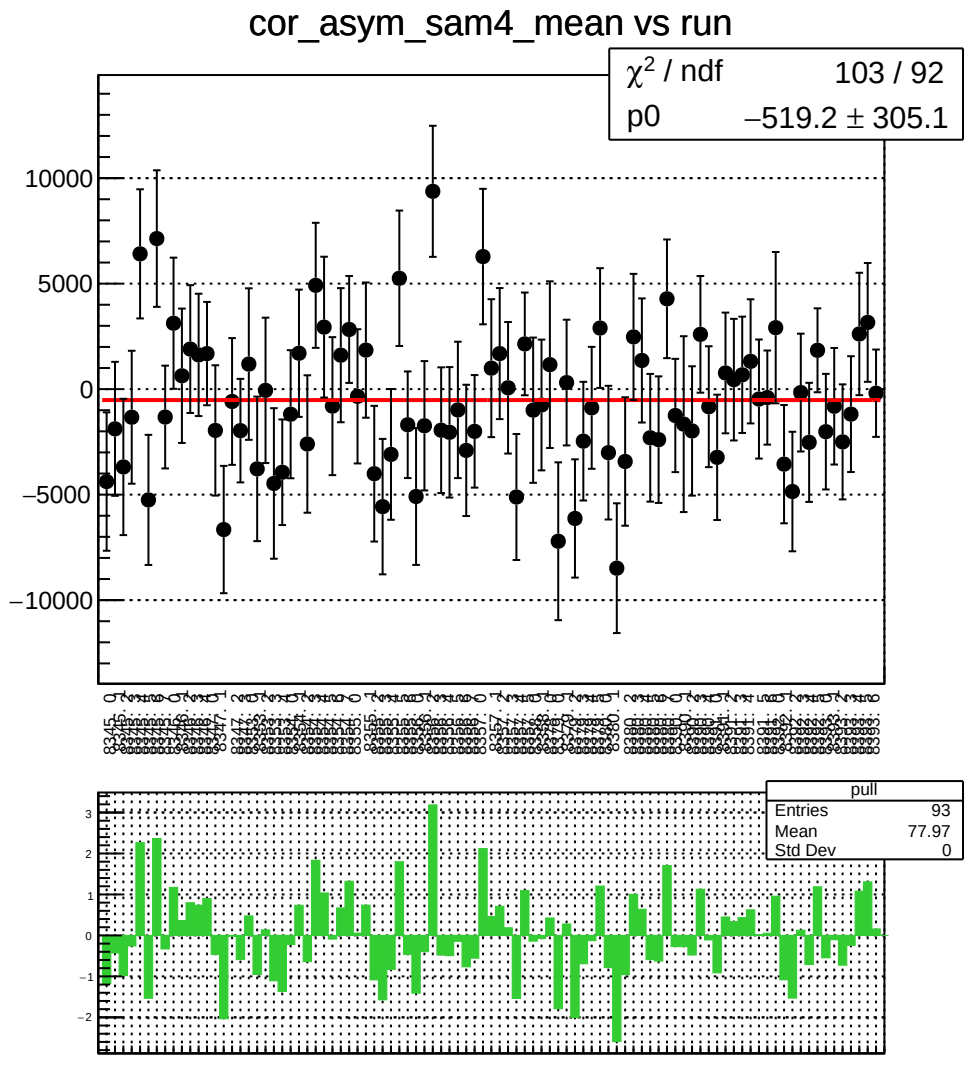

pull1D
Entries 93
Mean −0.01092
Std Dev 1.052
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

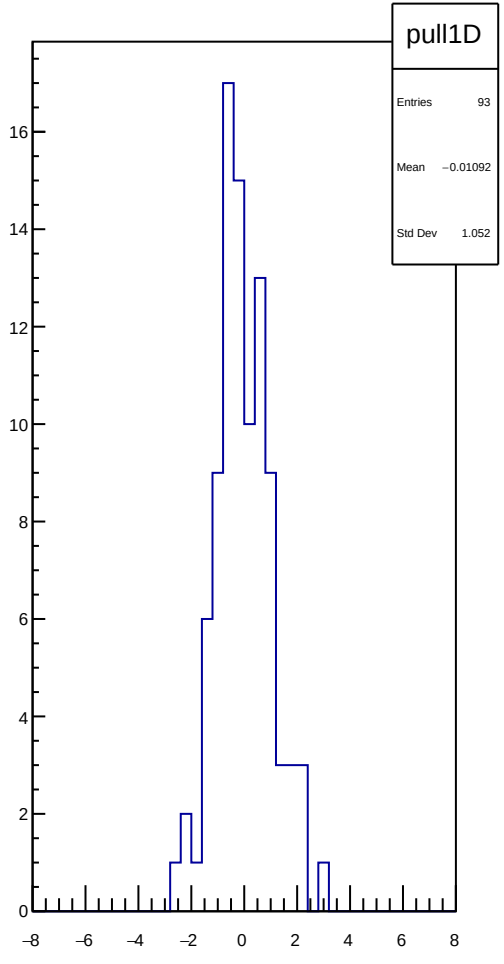

reg_asym_sam4_rms vs run
χ² / ndf 1.02e+04 / 92
p0 290.1 ± 0.2157
400
380
360
340
320
300
280
260
240

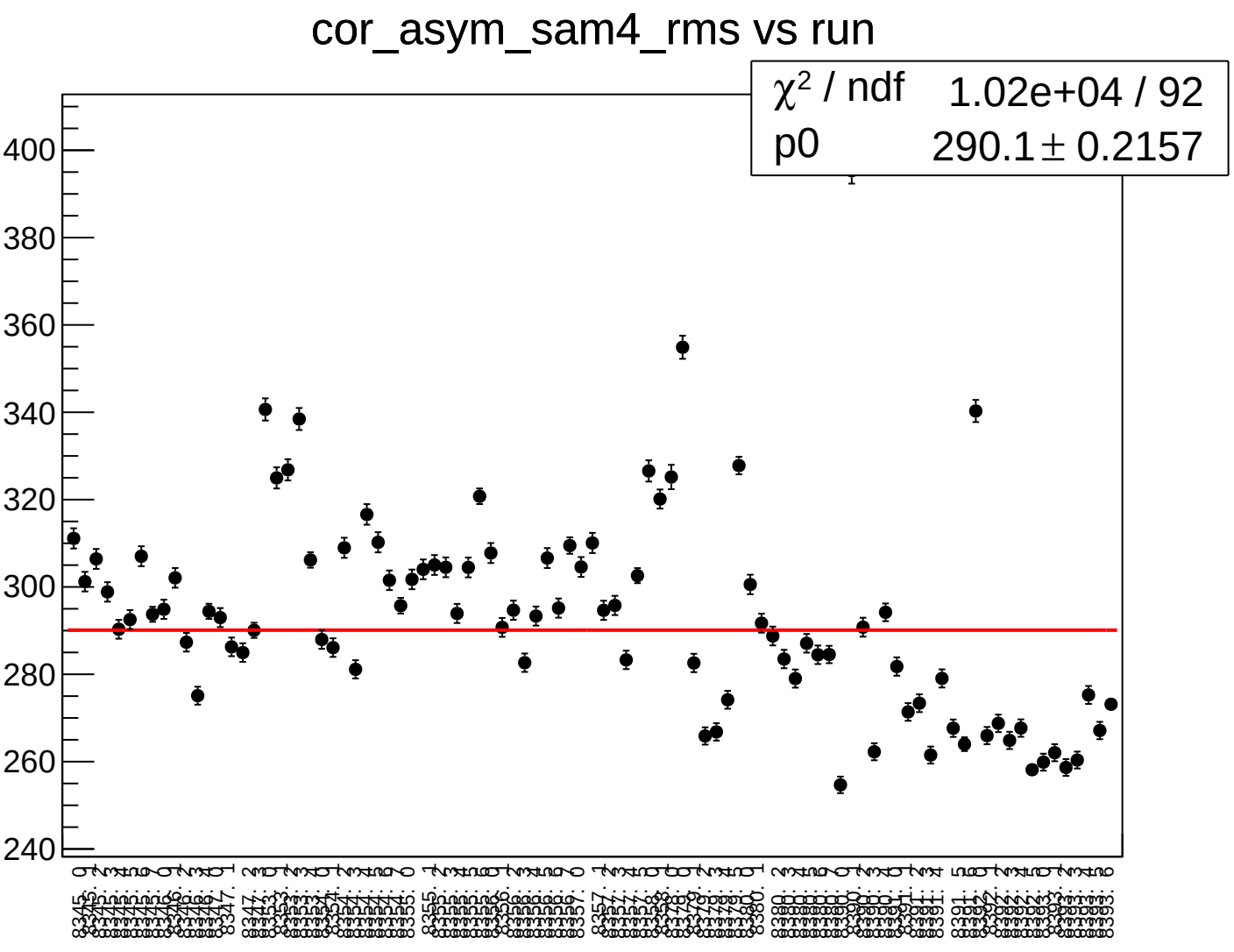

asym_sam4_reg_correction_mean vs run
×10^3
χ² / ndf 116.1 / 92
p0 −1.457e+04 ± 4567
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean −523.8
Std Dev 0
3
2
1
0
−1
−2

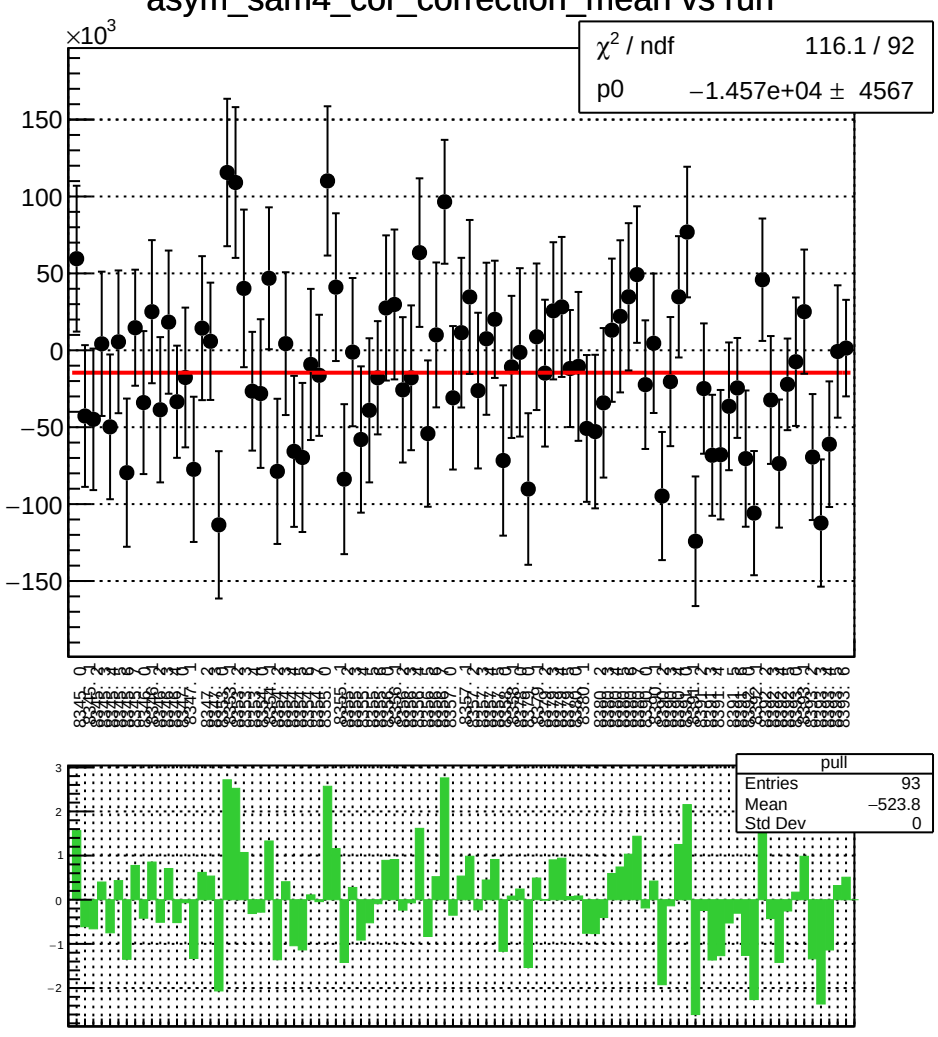

pull1D
Entries 93
Mean 0.008538
Std Dev 1.117
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

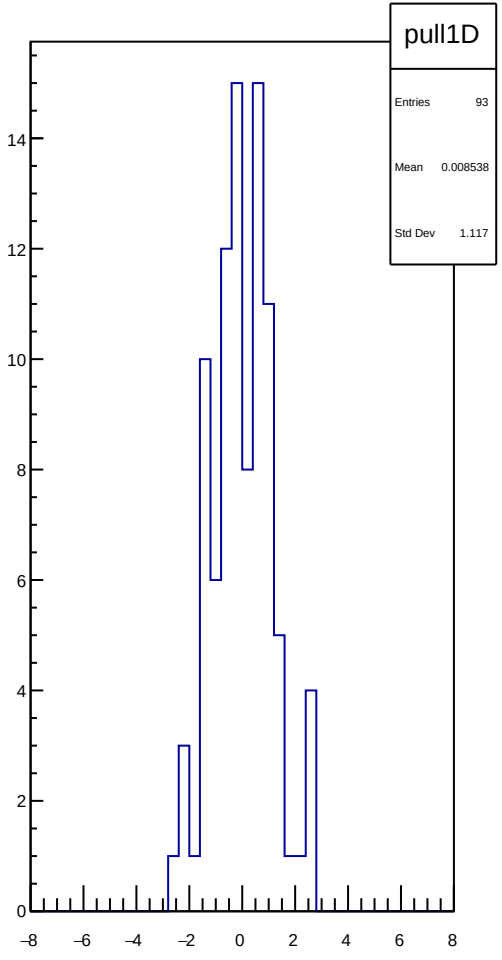

asym_sam4_reg_correction_rms vs run
χ² / ndf 8676 / 92
p0 4345 ± 3.229
5000
4800
4600
4400
4200
4000
3800
3600

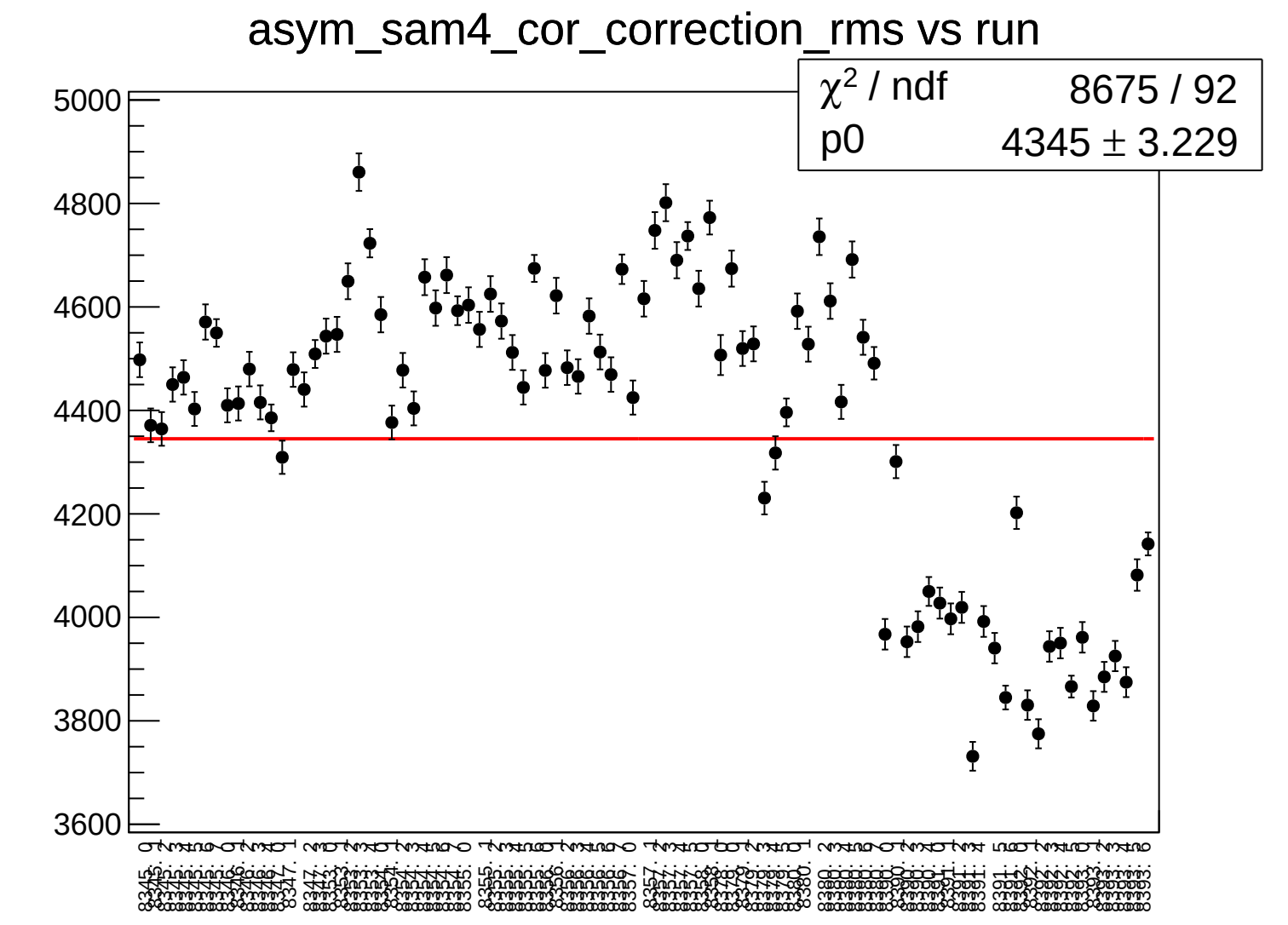

cor_asym_sam4_mean vs run
χ² / ndf 103 / 92
p0 −519.2 ± 305.1
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 77.97
Std Dev 0
3
2
1
0
−1
−2

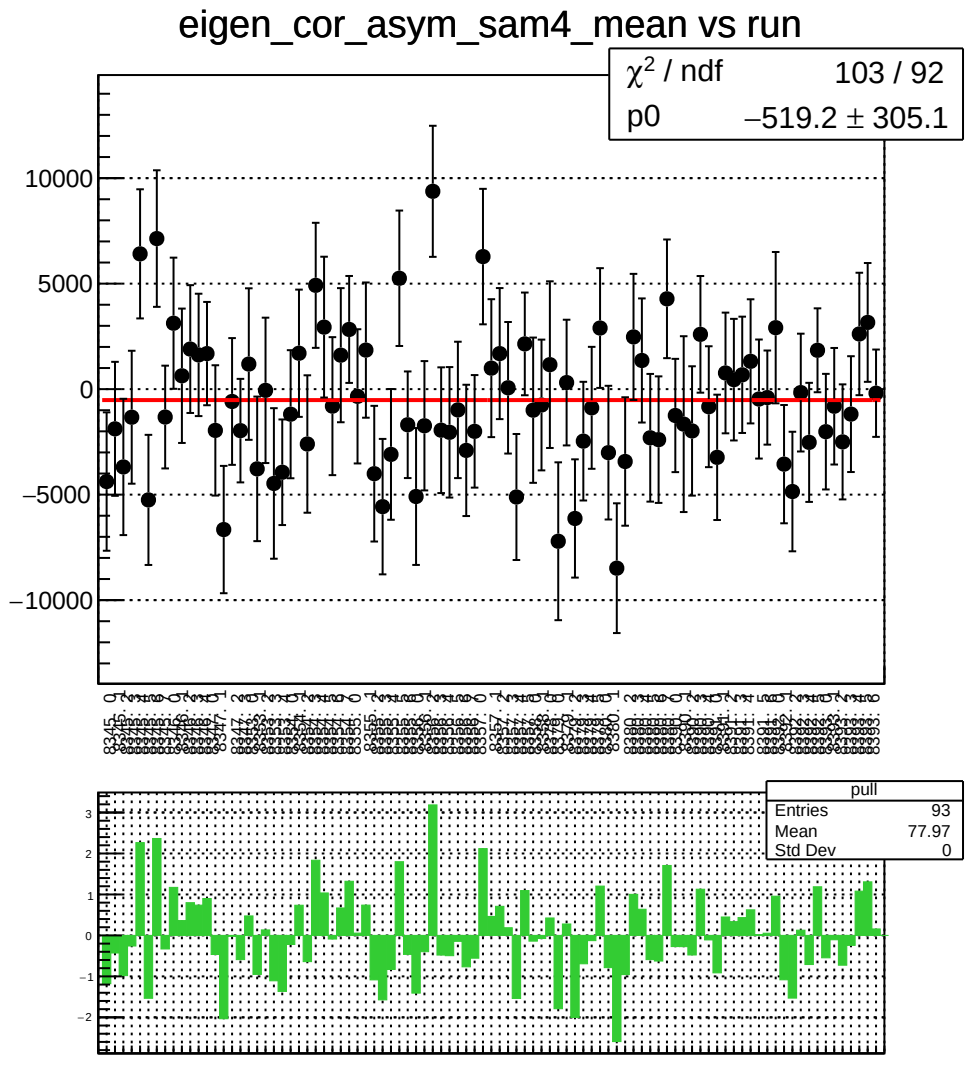

pull1D
Entries 93
Mean −0.01092
Std Dev 1.052
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

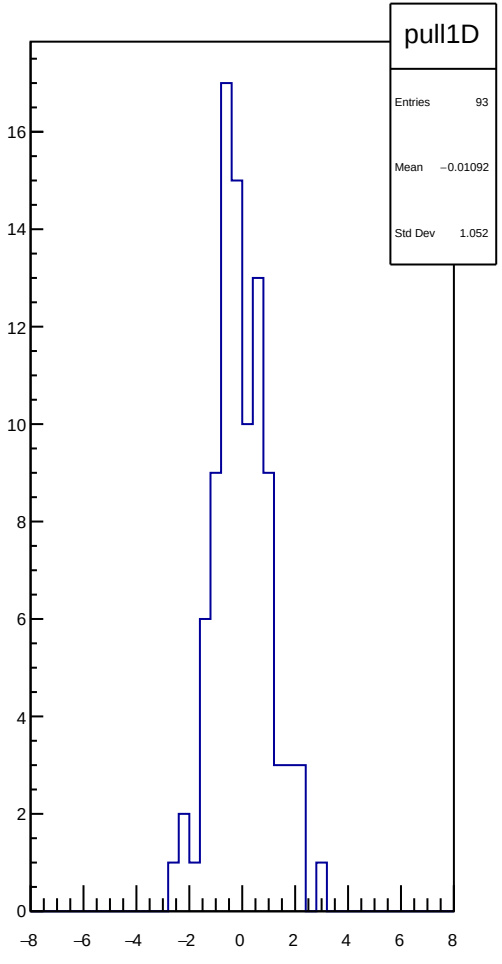

cor_asym_sam4_rms vs run
χ² / ndf 1.02e+04 / 92
p0 290.1 ± 0.2157
400
380
360
340
320
300
280
260
240

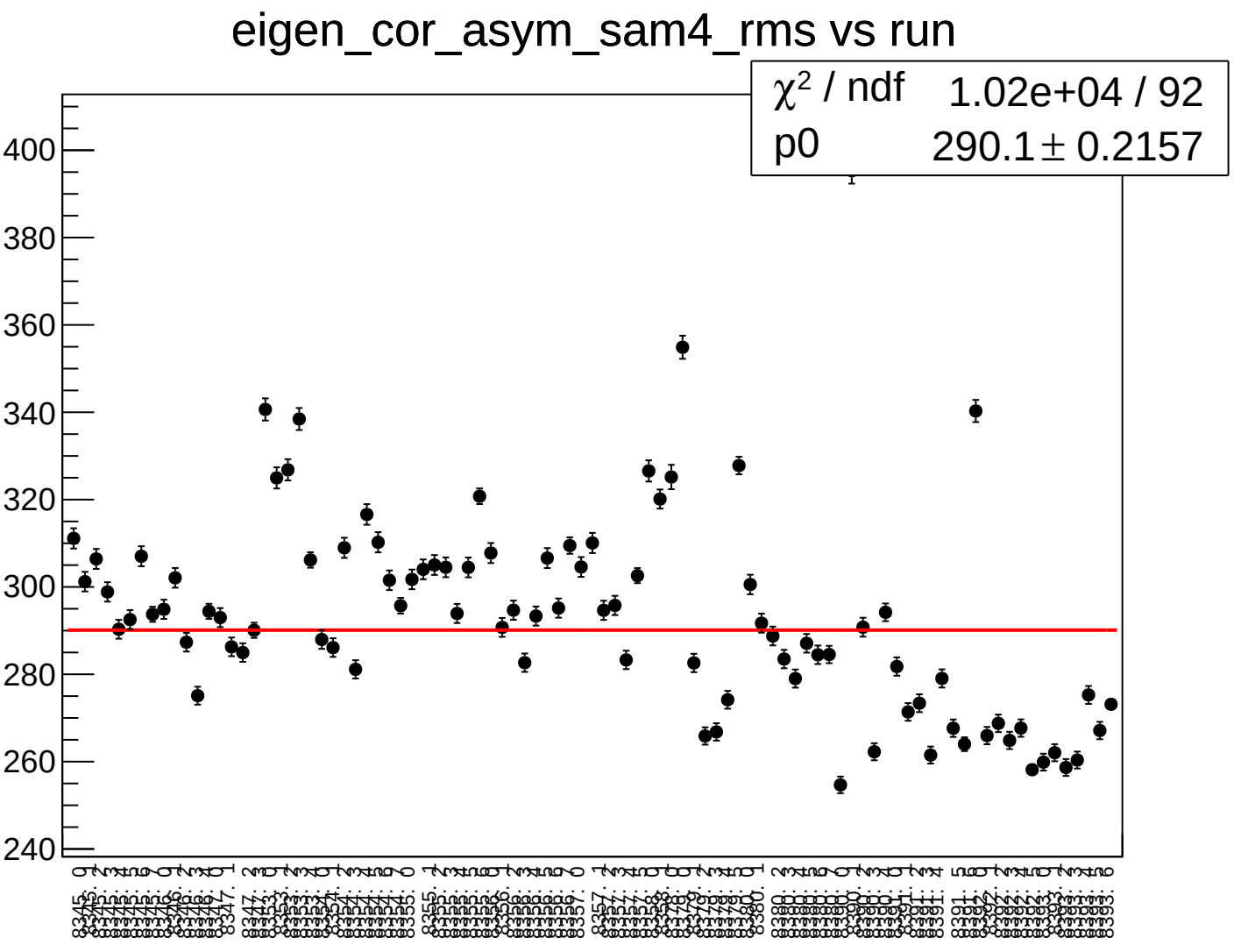

asym_sam4_cor_correction_mean vs run
×10^3
χ² / ndf 116.1 / 92
p0 −1.457e+04 ± 4567
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean −523.8
Std Dev 0
3
2
1
0
−1
−2

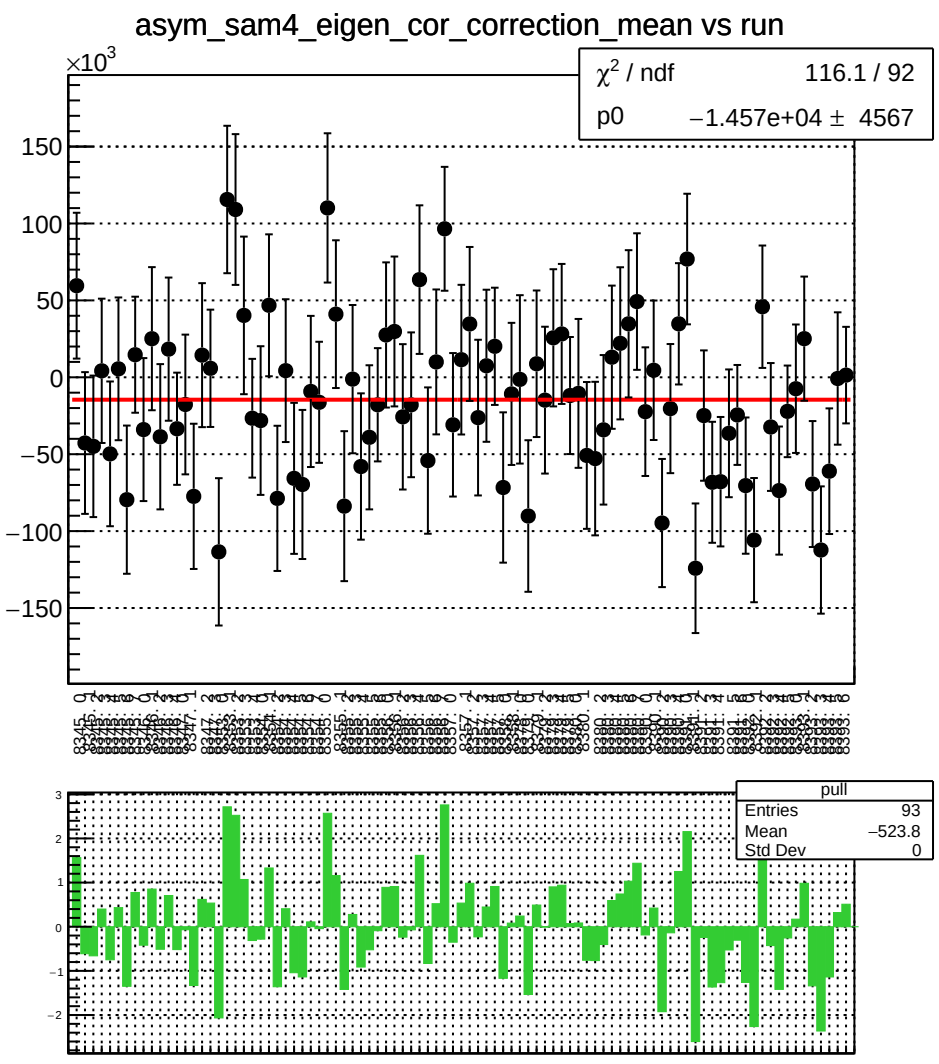

pull1D
Entries 93
Mean 0.008538
Std Dev 1.117
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

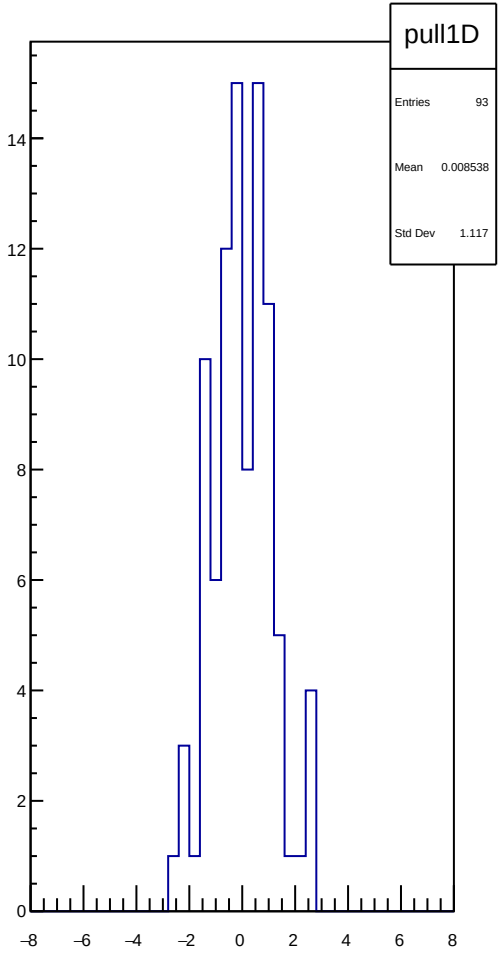

asym_sam4_cor_correction_rms vs run
χ² / ndf 8675 / 92
p0 4345 ± 3.229
5000
4800
4600
4400
4200
4000
3800
3600

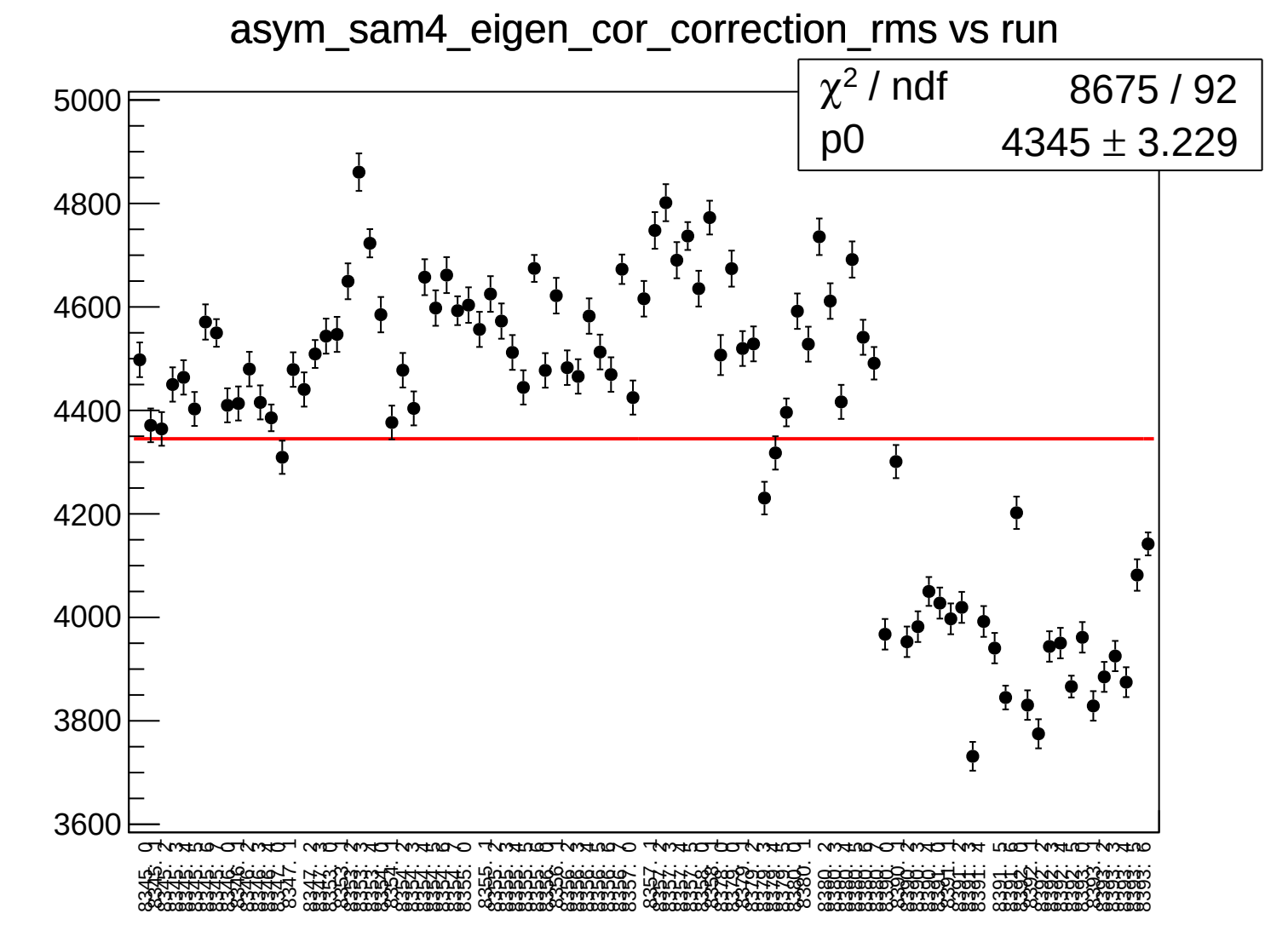

eigen_cor_asym_sam4_mean vs run
χ² / ndf 103 / 92
p0 −519.2 ± 305.1
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 77.97
Std Dev 0
3
2
1
0
−1
−2

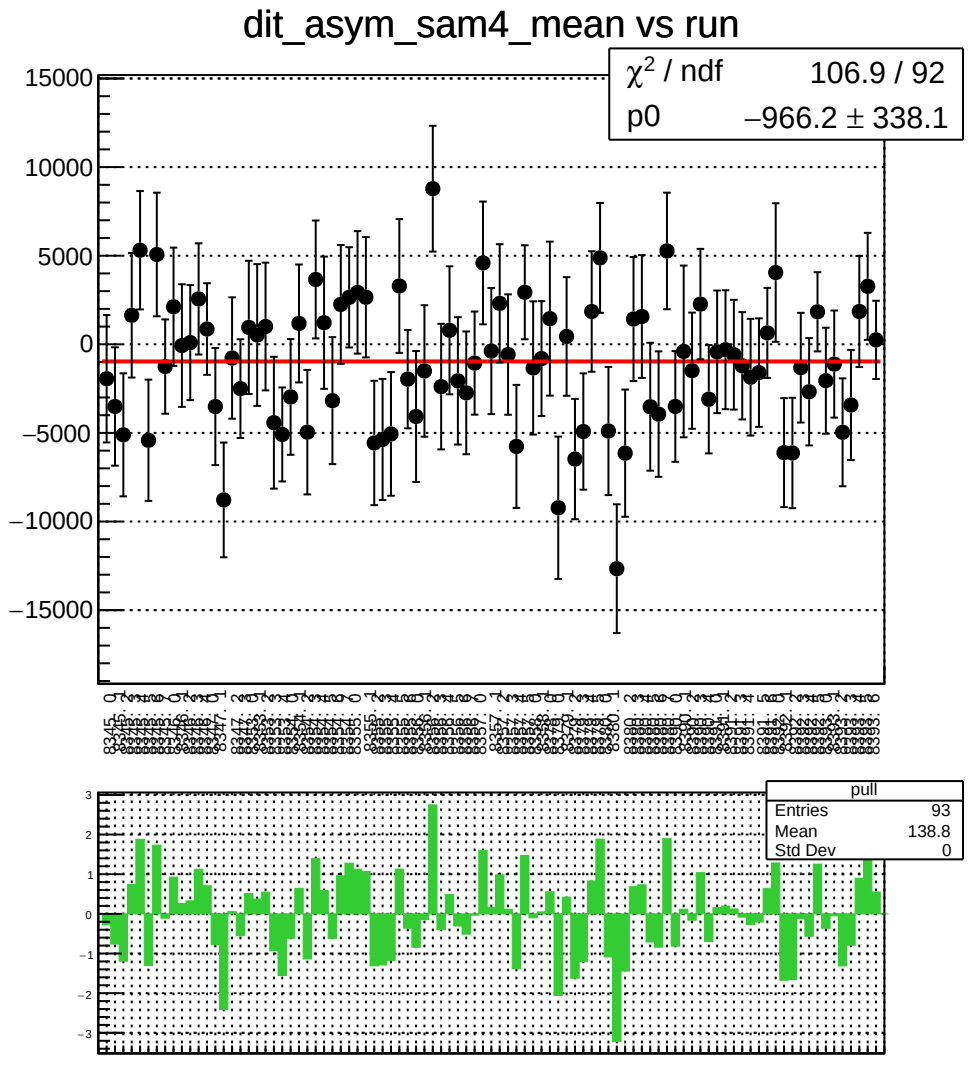

pull1D
Entries 93
Mean −0.01092
Std Dev 1.052
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

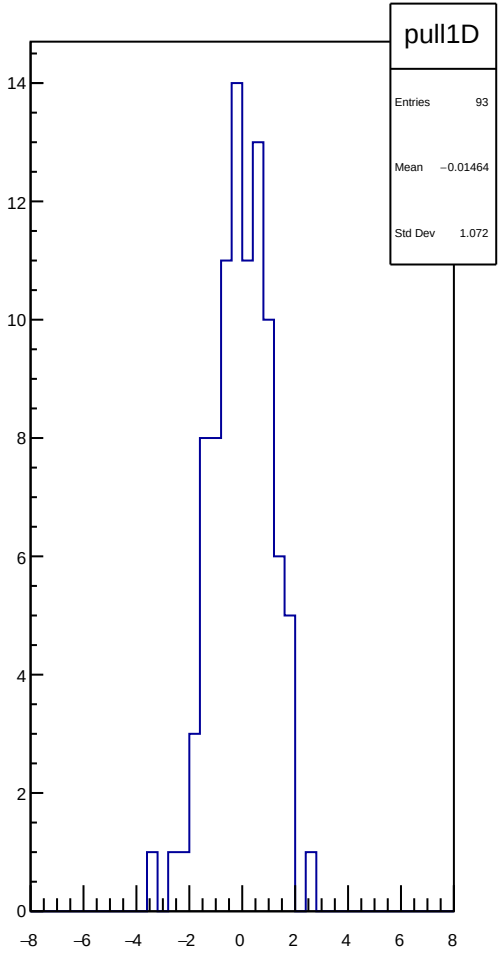

eigen_cor_asym_sam4_rms vs run
χ² / ndf 1.02e+04 / 92
p0 290.1 ± 0.2157
400
380
360
340
320
300
280
260
240

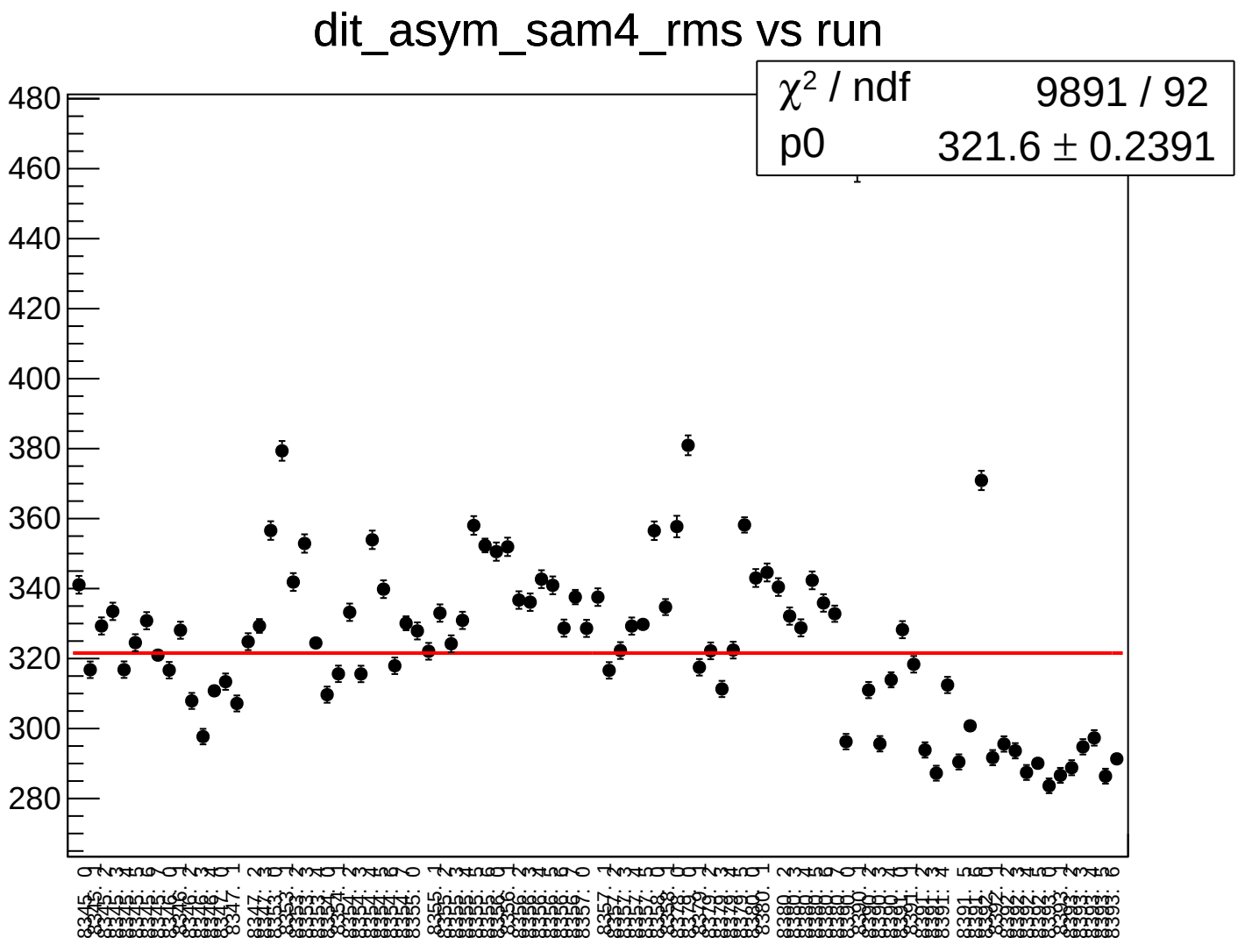

asym_sam4_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 116.1 / 92
p0 −1.457e+04 ± 4567
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean −523.8
Std Dev 0
3
2
1
0
−1
−2

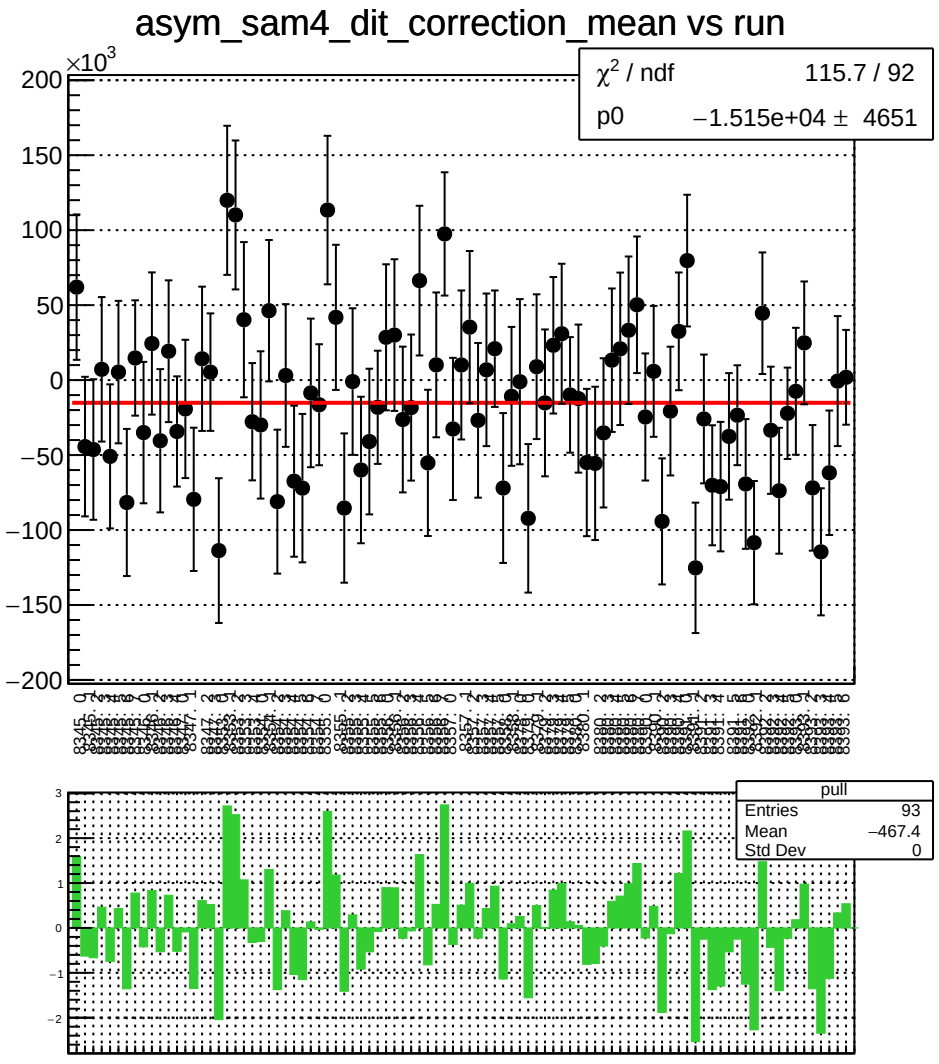

pull1D
Entries 93
Mean 0.008538
Std Dev 1.117
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

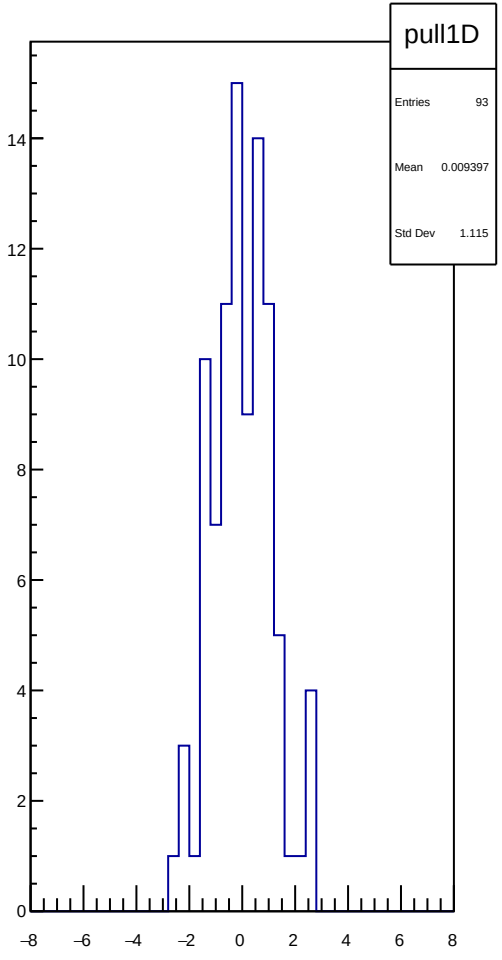

asym_sam4_eigen_cor_correction_rms vs run
χ^2 / ndf 8675 / 92
p0 4345 ± 3.229
5000
4800
4600
4400
4200
4000
3800
3600

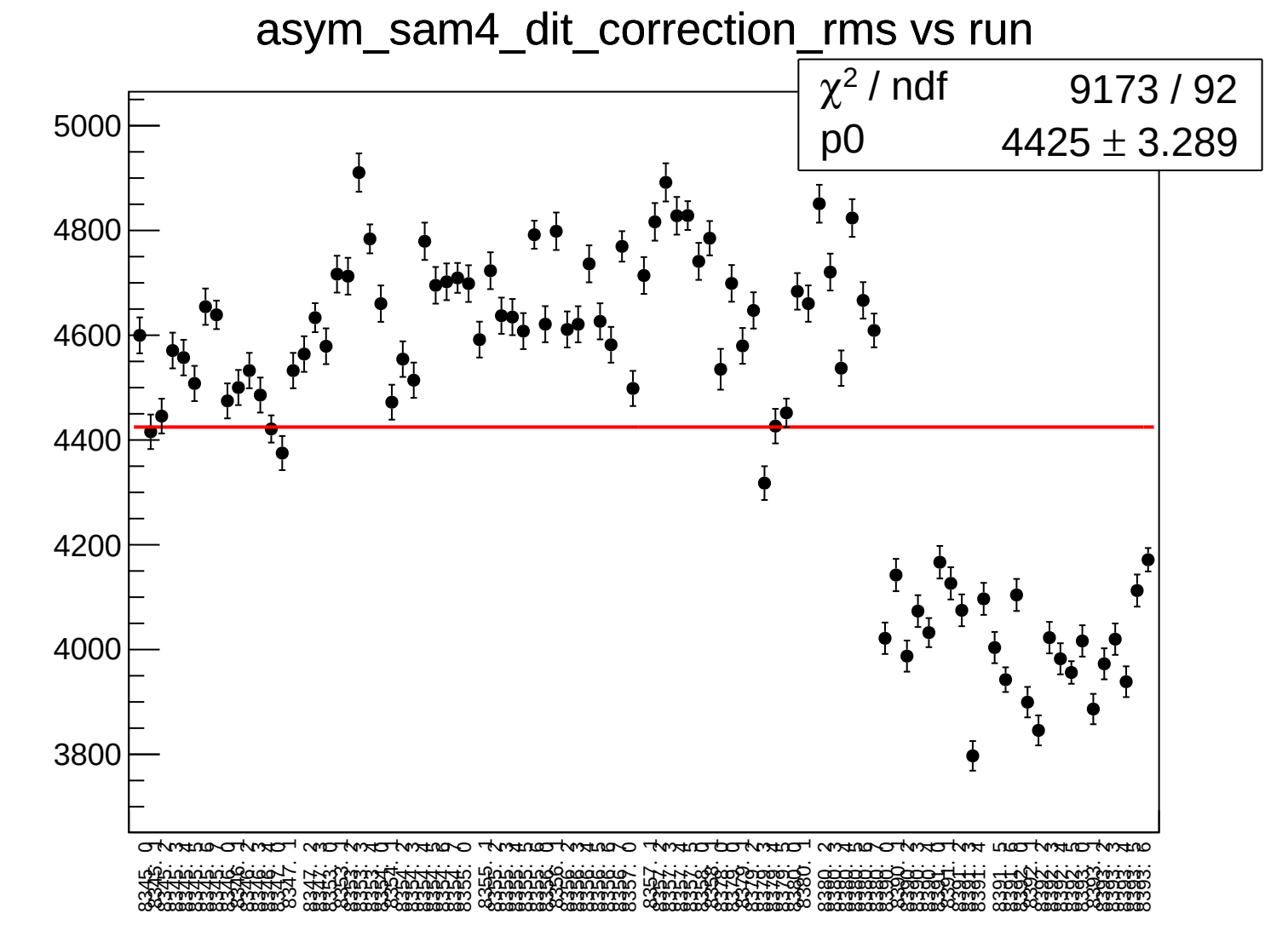

dit_asym_sam4_mean vs run
χ² / ndf 106.9 / 92
p0 −966.2 ± 338.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean 138.8
Std Dev 0
3
2
1
0
−1
−2
−3

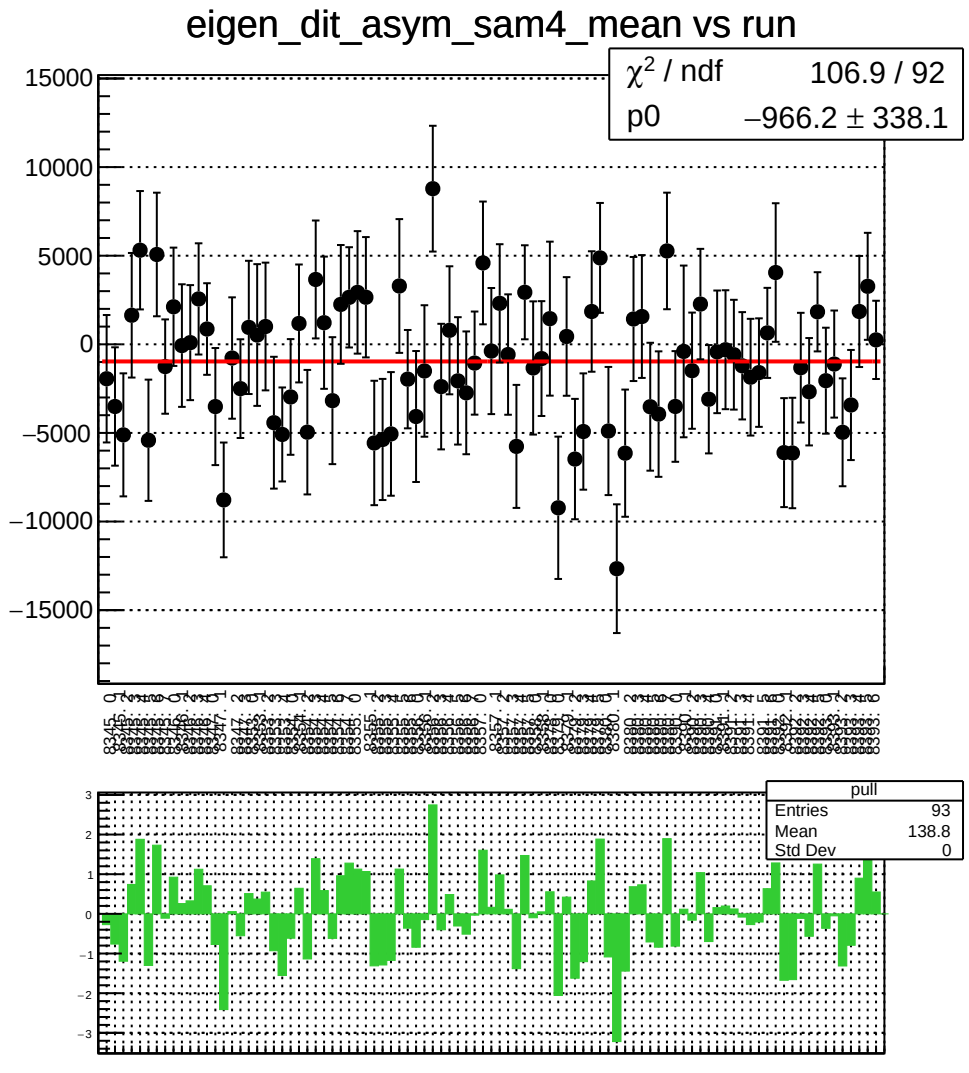

pull1D
Entries 93
Mean −0.01464
Std Dev 1.072
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

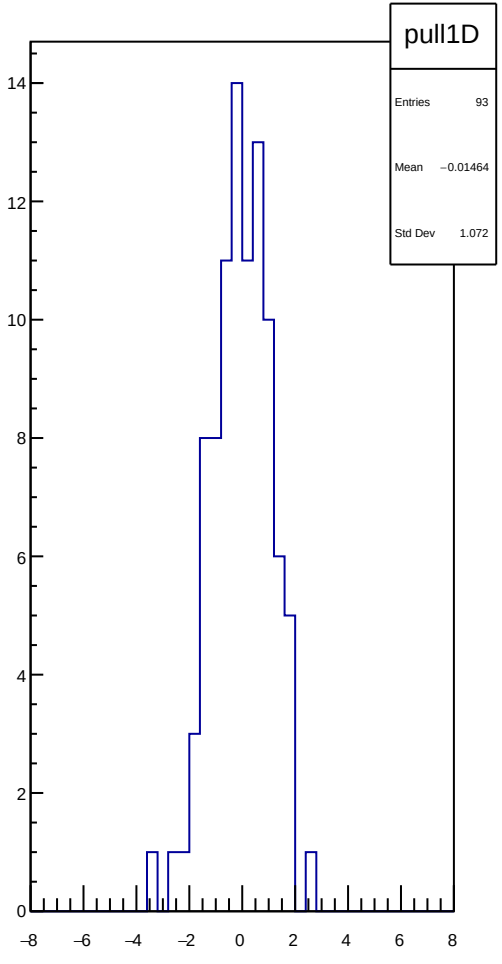

dit_asym_sam4_rms vs run
χ² / ndf 9891 / 92
p0 321.6 ± 0.2391
480
460
440
420
400
380
360
340
320
300
280

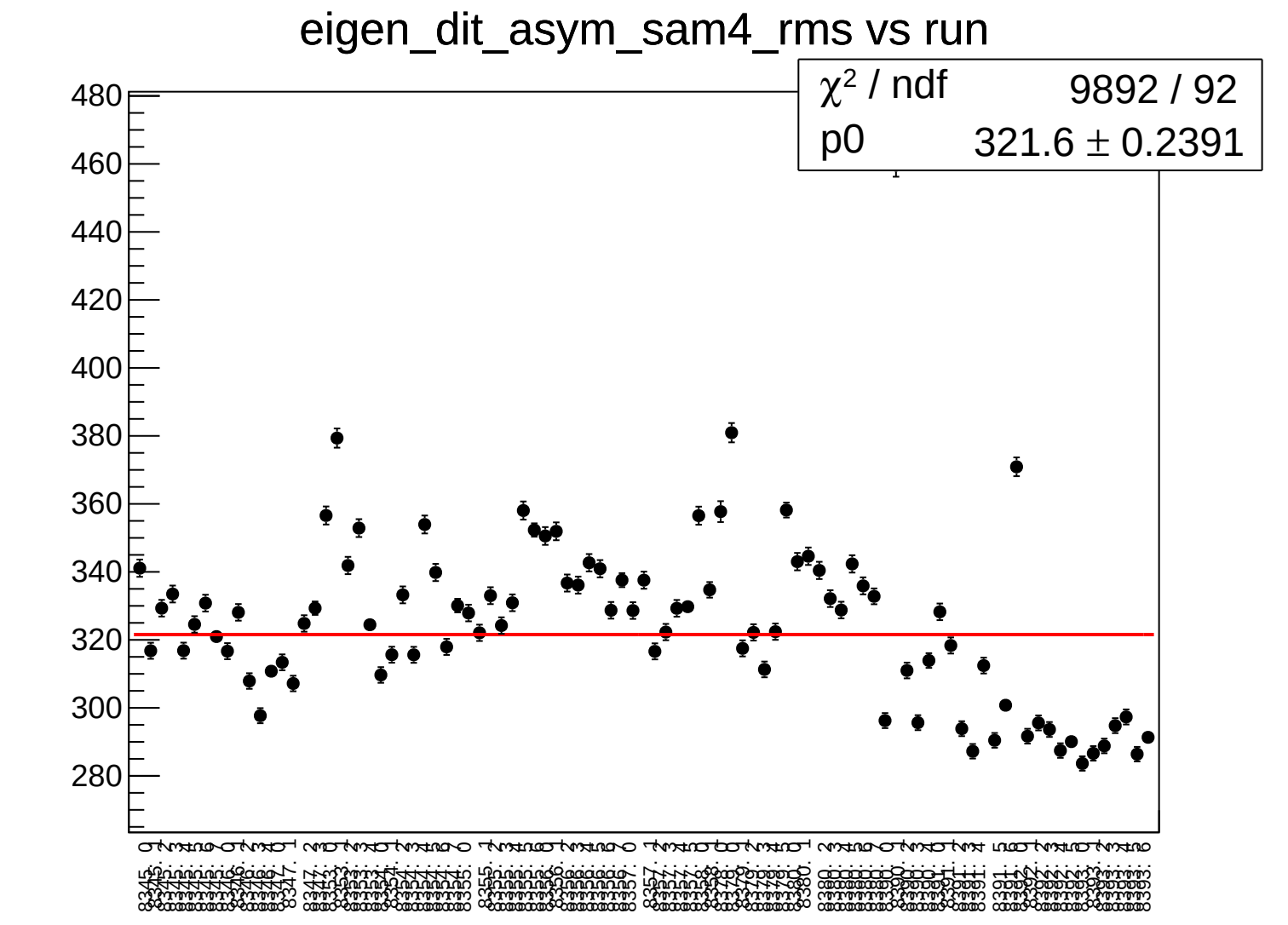

asym_sam4_dit_correction_mean vs run
×10^3
χ² / ndf 115.7 / 92
p0 −1.515e+04 ± 4651
pull
Entries 93
Mean −467.4
Std Dev 0

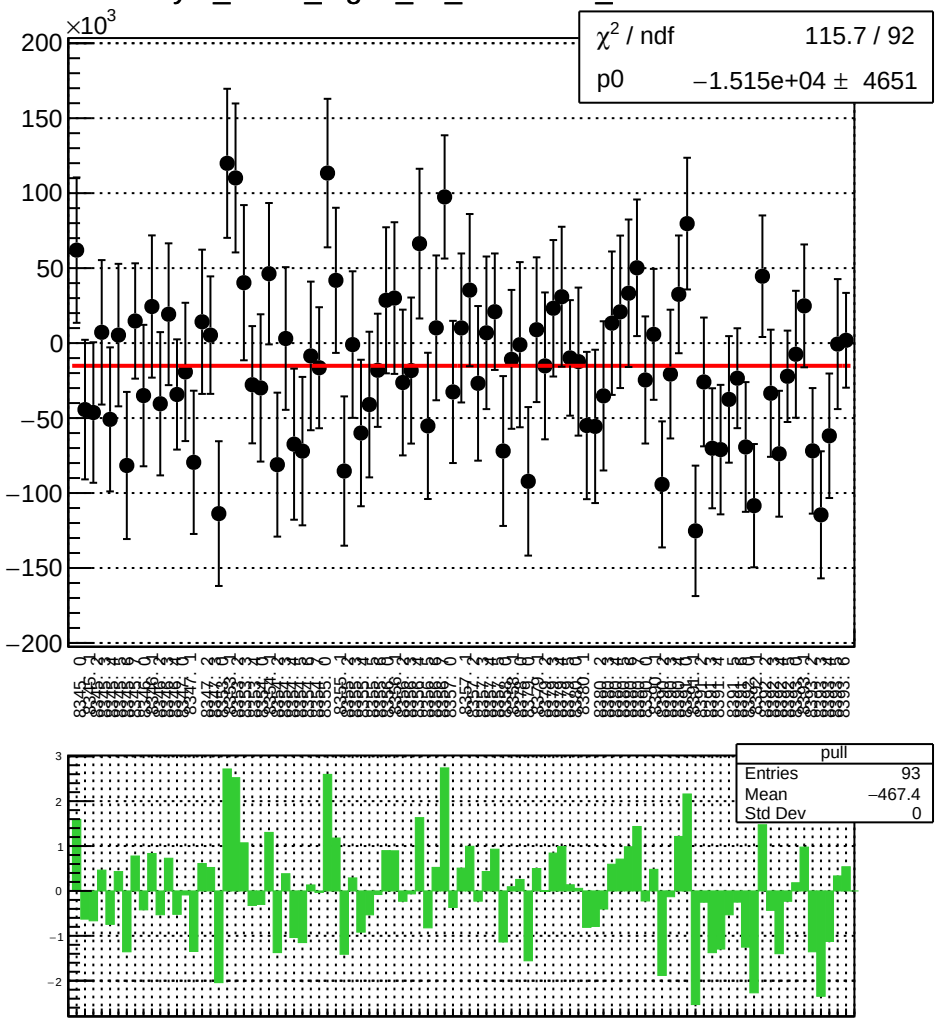

pull1D
Entries 93
Mean 0.009397
Std Dev 1.115

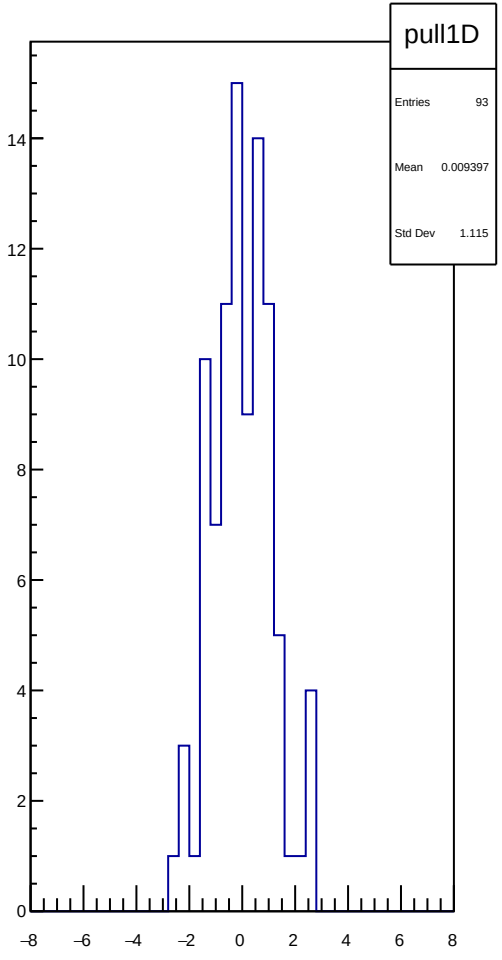

asym_sam4_dit_correction_rms vs run
χ^2 / ndf 9173 / 92
p0 4425 ± 3.289
5000
4800
4600
4400
4200
4000
3800

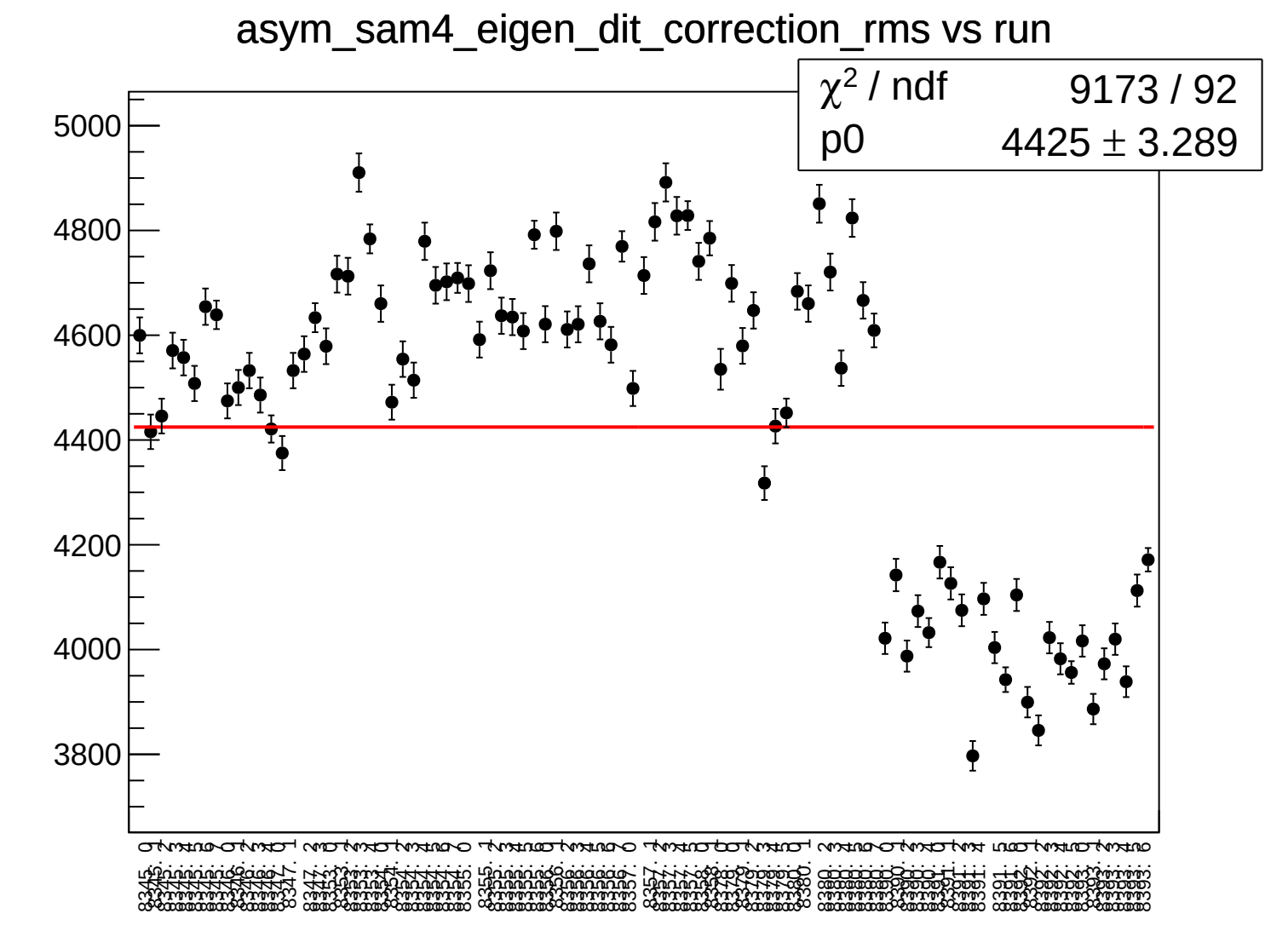

eigen_dit_asym_sam4_mean vs run
χ² / ndf 106.9 / 92
p0 −966.2 ± 338.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean 138.8
Std Dev 0
3
2
1
0
−1
−2
−3

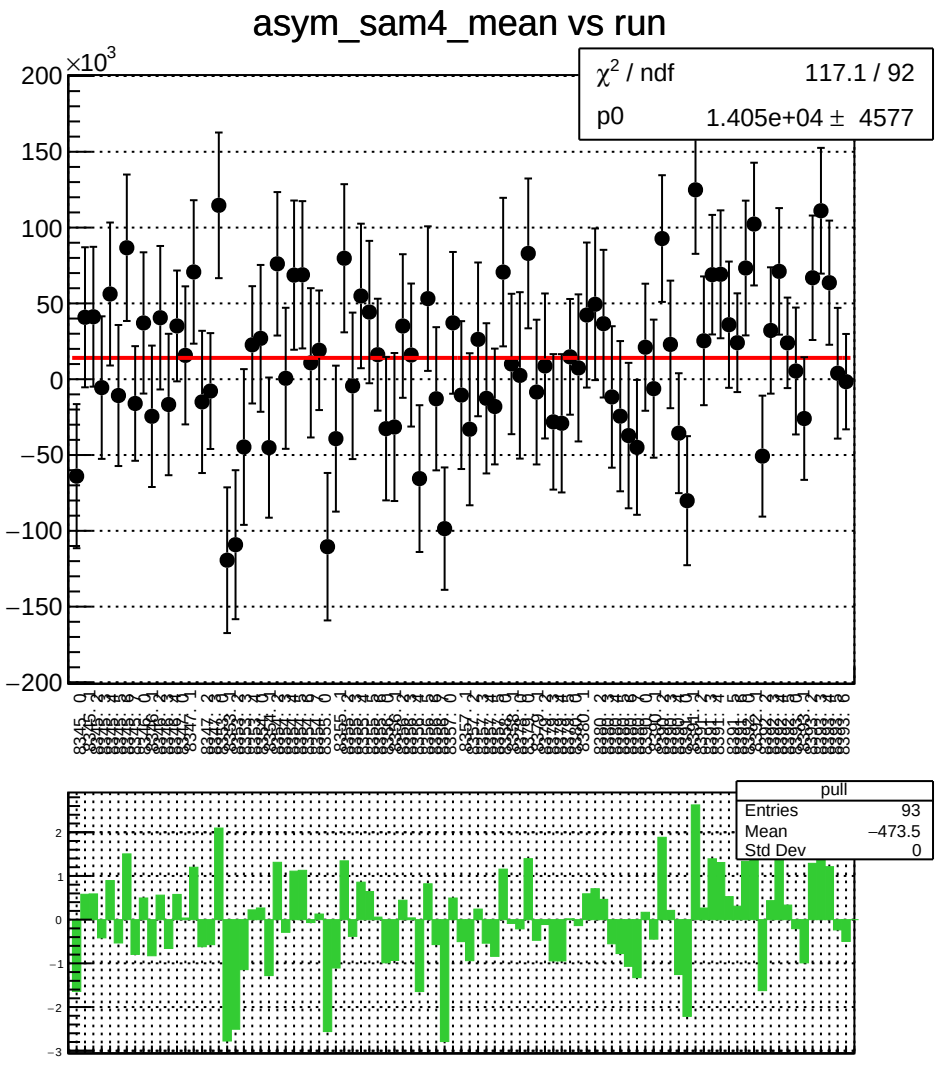

pull1D
Entries 93
Mean −0.01464
Std Dev 1.072
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

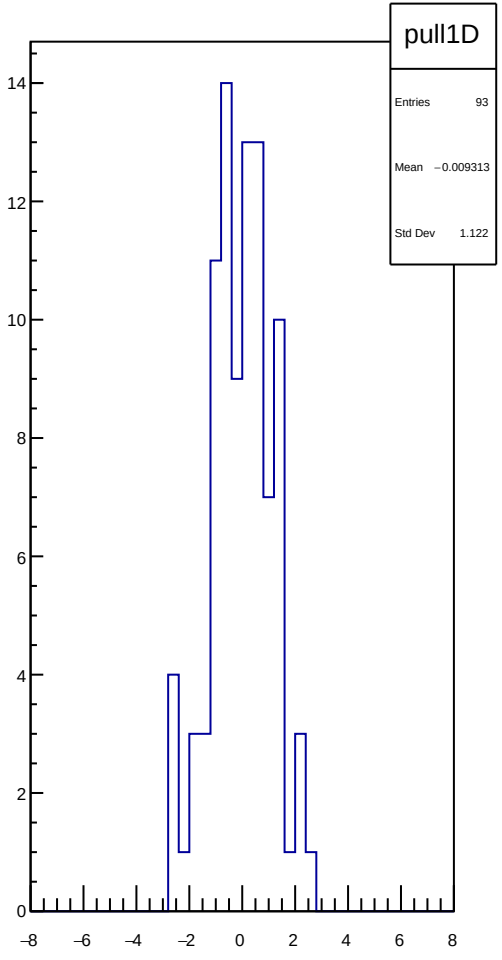

eigen_dit_asym_sam4_rms vs run
χ² / ndf 9892 / 92
p0 321.6 ± 0.2391
480
460
440
420
400
380
360
340
320
300
280

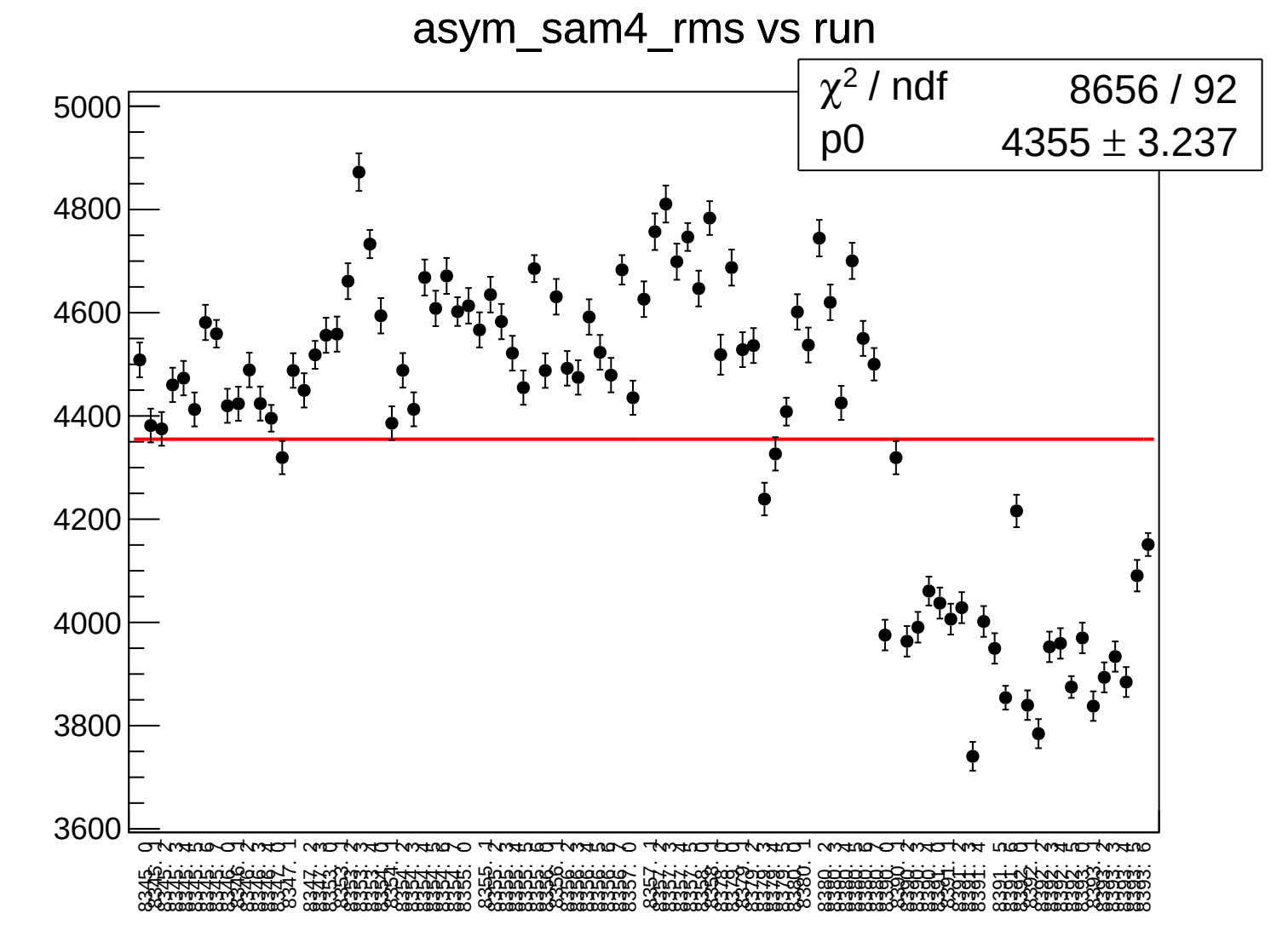

asym_sam4_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 115.7 / 92
p0 −1.515e+04 ± 4651
pull
Entries 93
Mean −467.4
Std Dev 0

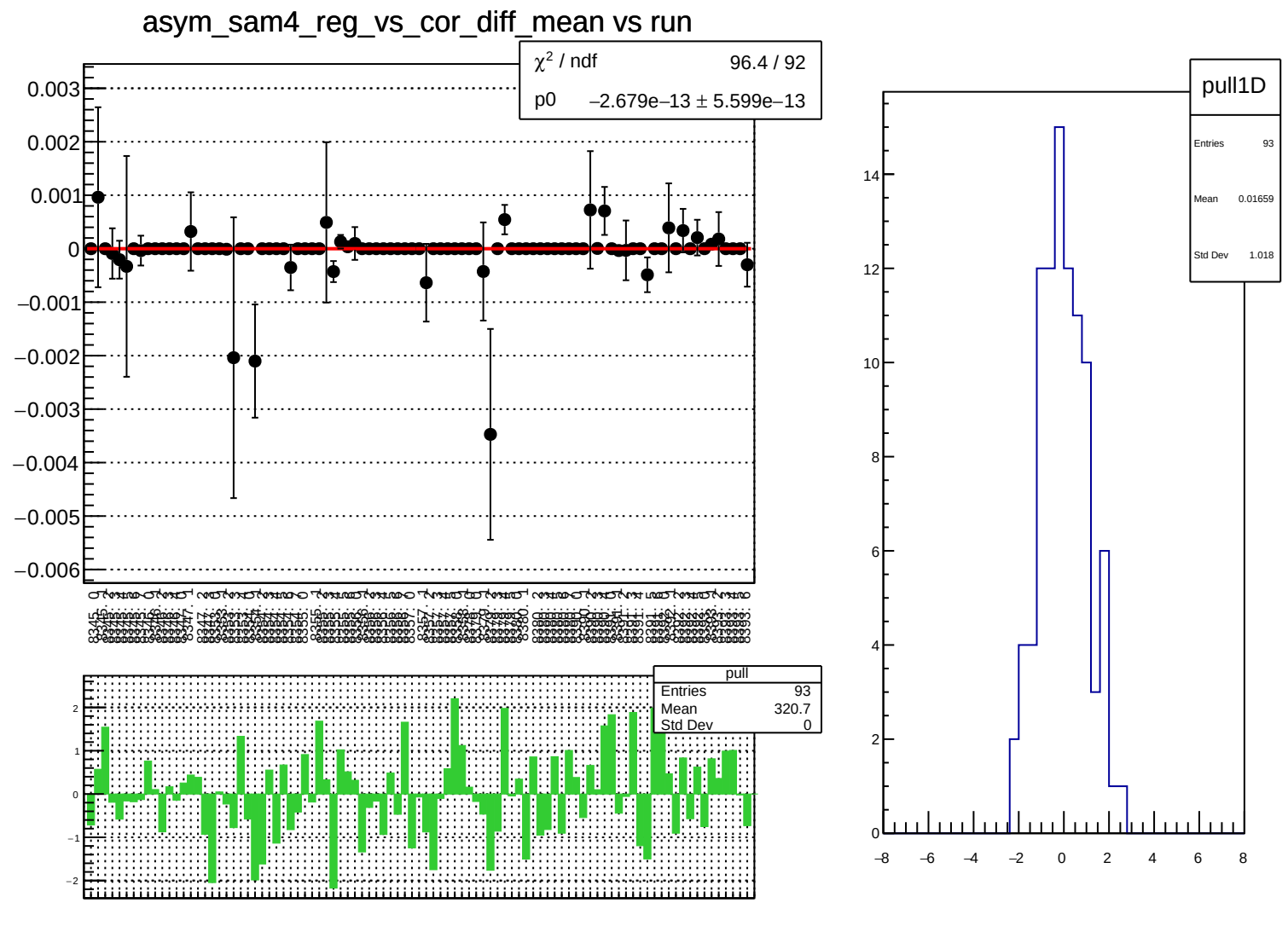

pull1D
Entries 93
Mean 0.009397
Std Dev 1.115

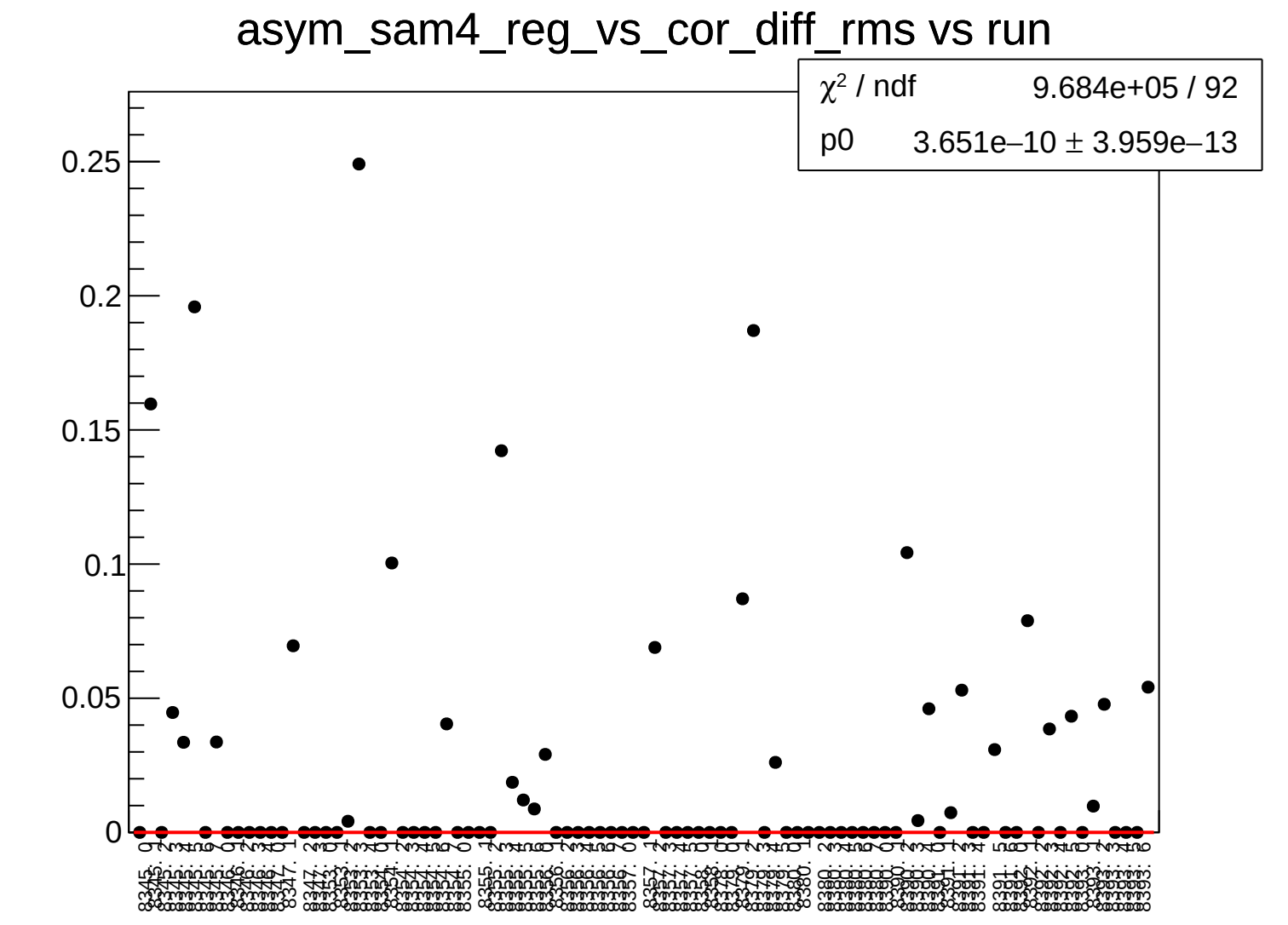

asym_sam4_eigen_dit_correction_rms vs run
χ^2 / ndf 9173 / 92
p0 4425 ± 3.289
5000
4800
4600
4400
4200
4000
3800

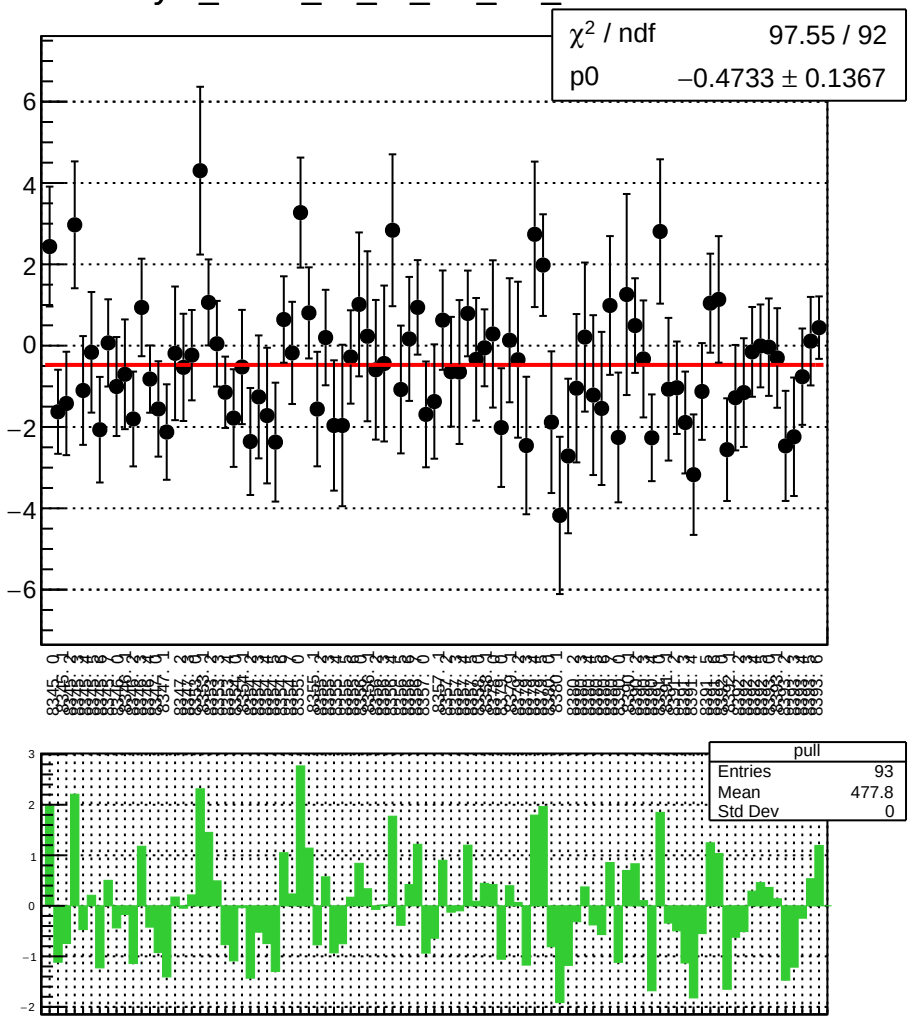

asym_sam4_mean vs run
χ² / ndf 117.1 / 92
p0 1.405e+04 ± 4577
×10³
pull
Entries 93
Mean −473.5
Std Dev 0

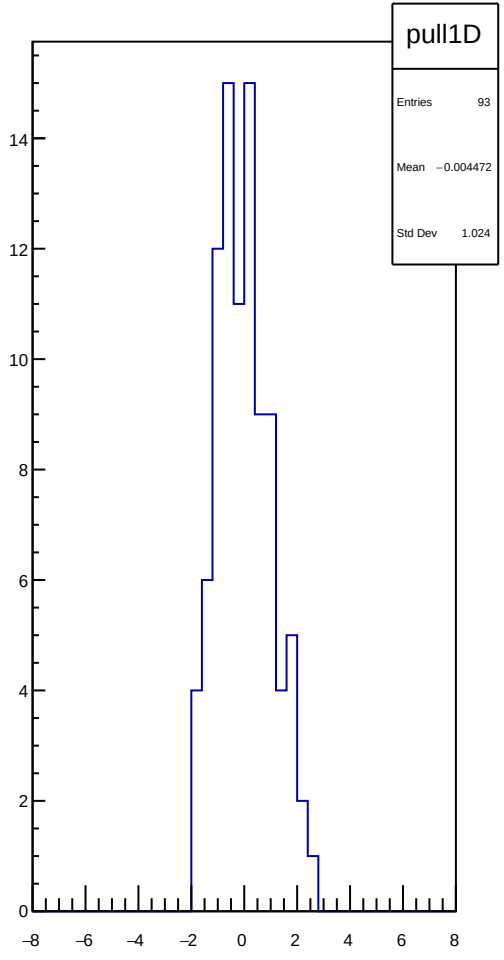

pull1D
Entries 93
Mean −0.009313
Std Dev 1.122

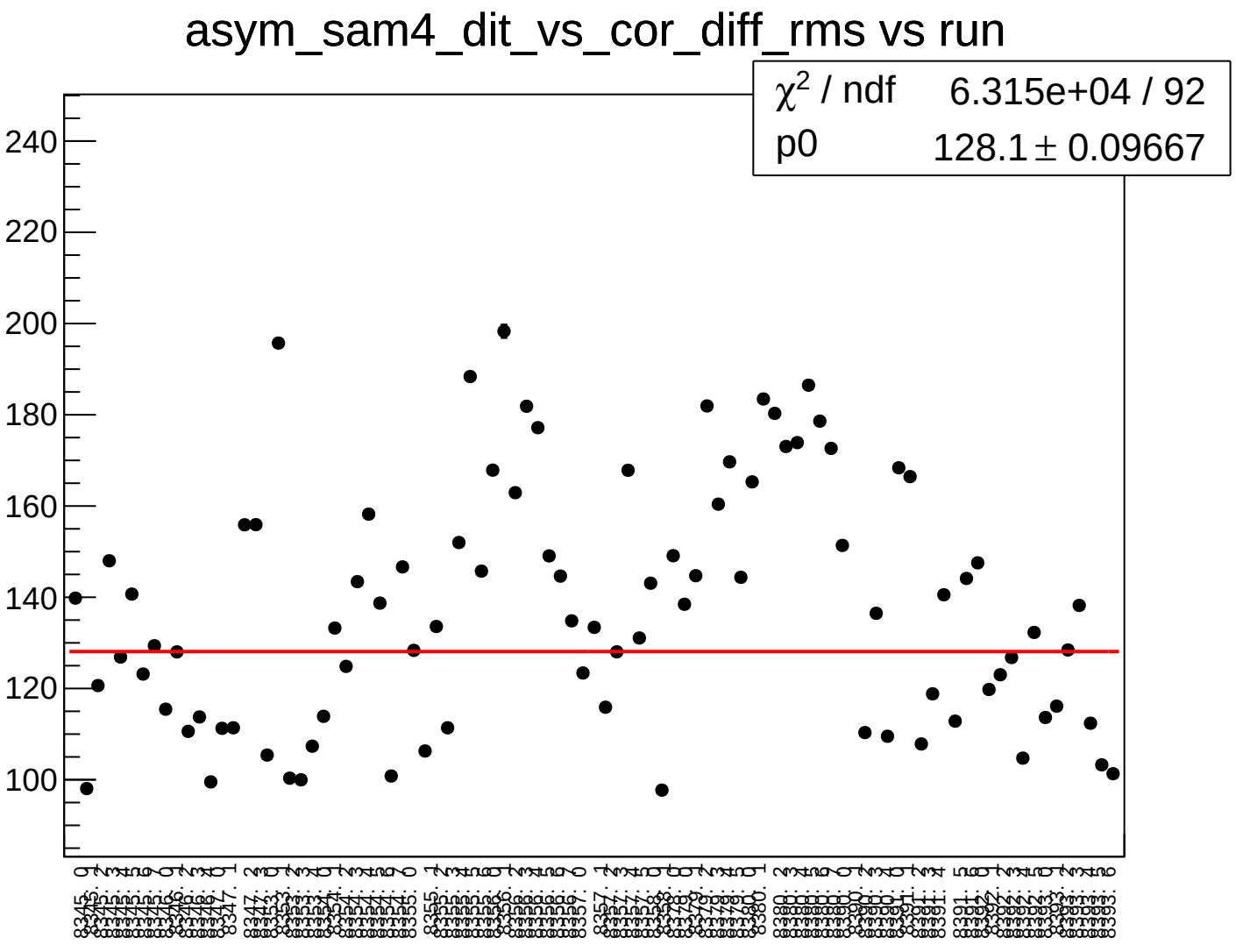

asym_sam4_rms vs run
χ^2 / ndf 8656 / 92
p0 4355 ± 3.237
5000
4800
4600
4400
4200
4000
3800
3600

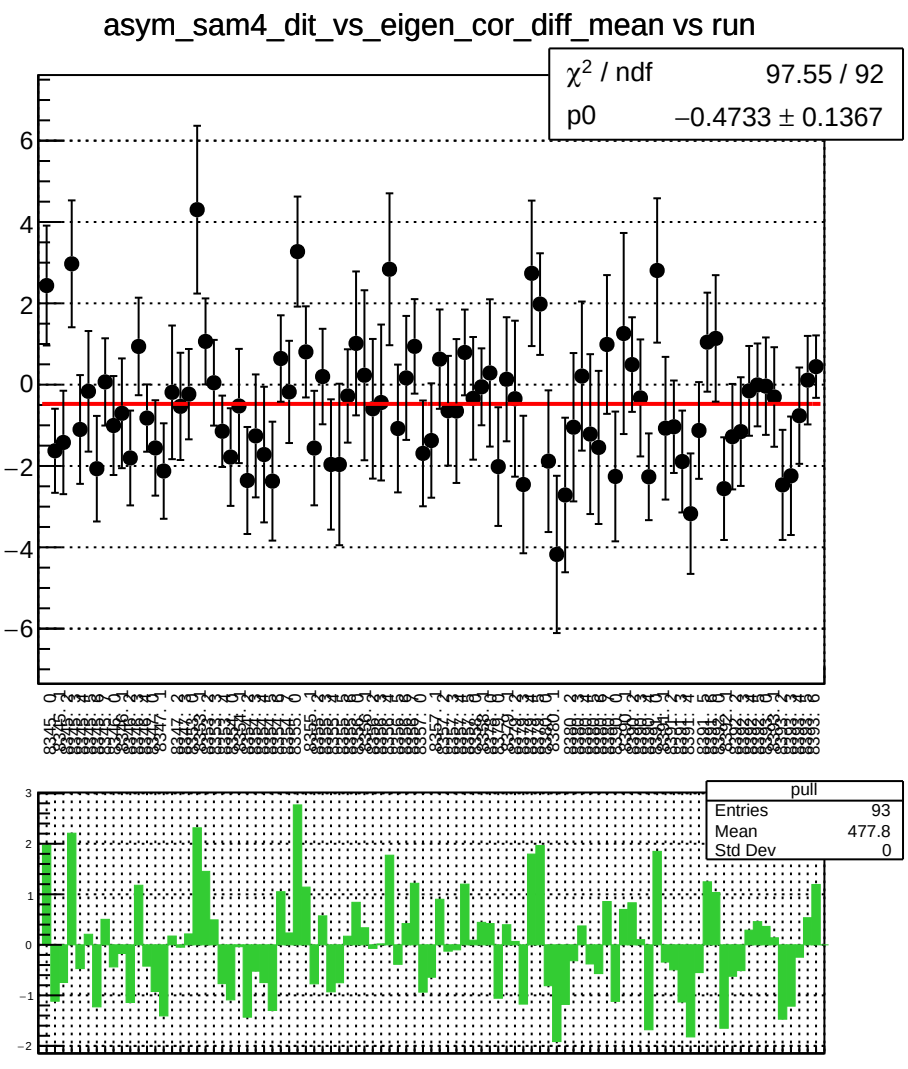

asym_sam4_reg_vs_cor_diff_mean vs run
χ² / ndf 96.4 / 92
p0 −2.679e−13 ± 5.599e−13
pull
Entries 93
Mean 320.7
Std Dev 0
pull1D
Entries 93
Mean 0.01659
Std Dev 1.018

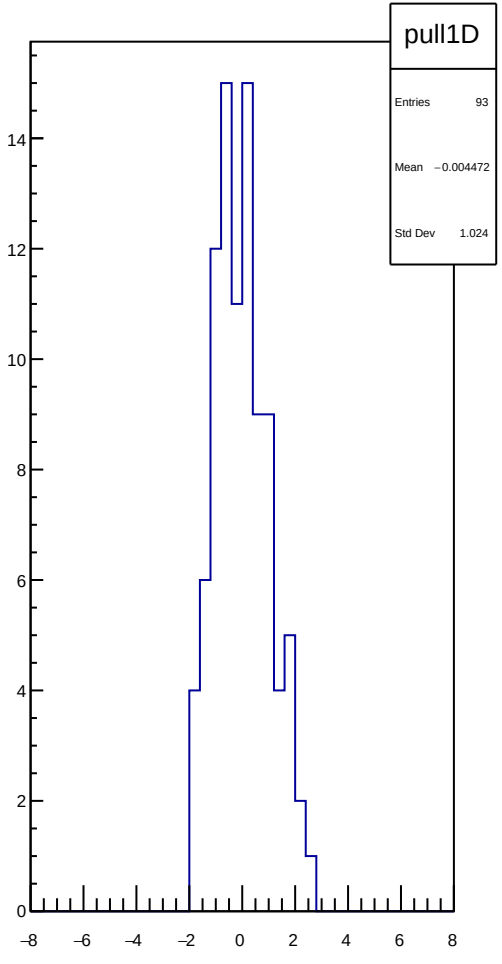

asym_sam4_reg_vs_cor_diff_rms vs run
χ² / ndf 9.684e+05 / 92
p0 3.651e−10 ± 3.959e−13
0.25
0.2
0.15
0.1
0.05
0

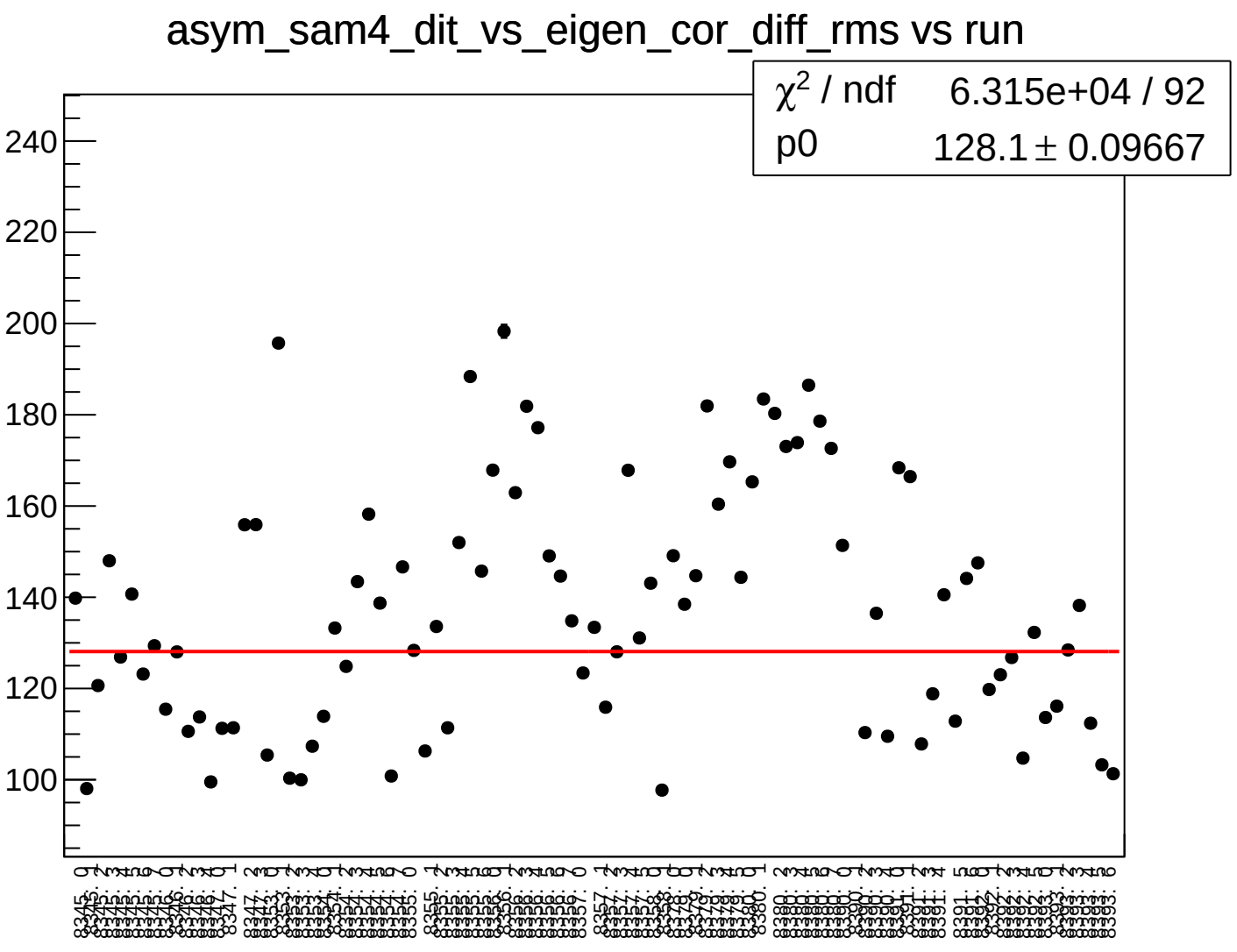

asym_sam4_dit_vs_cor_diff_mean vs run
χ² / ndf 97.55 / 92
p0 −0.4733 ± 0.1367
pull
Entries 93
Mean 477.8
Std Dev 0

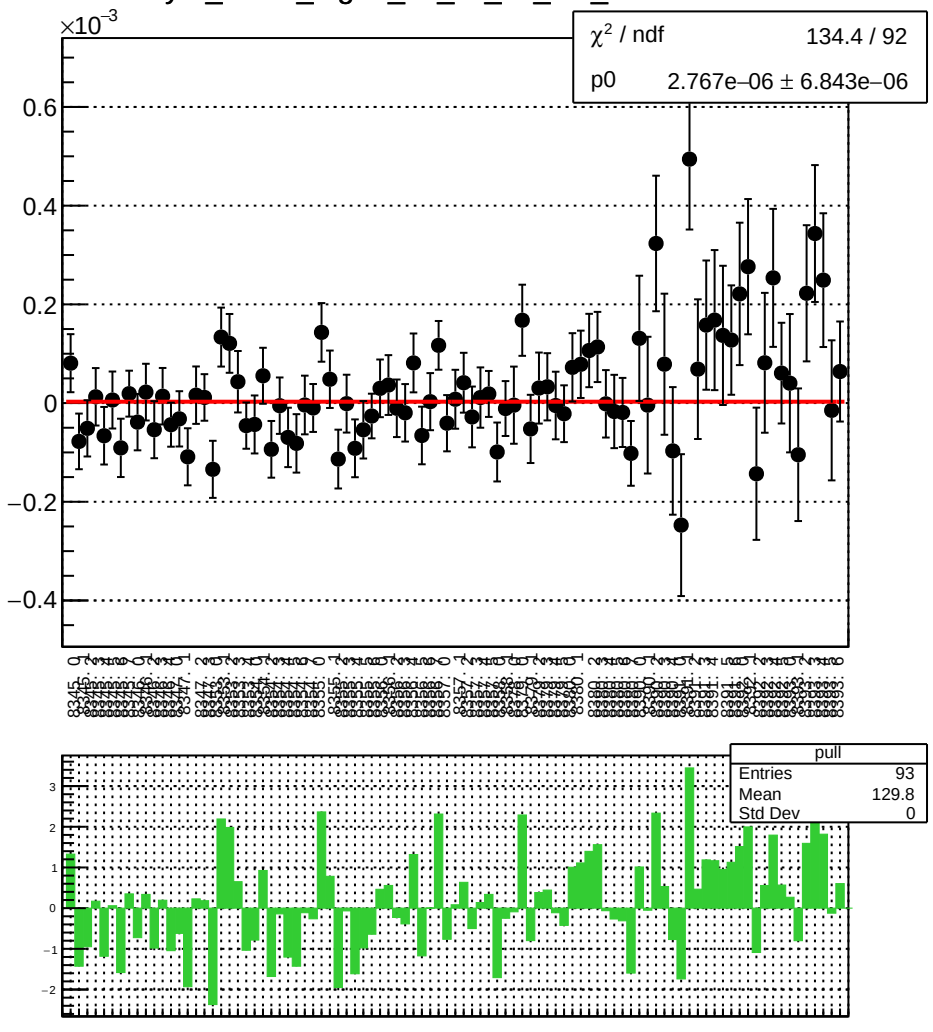

pull1D
Entries 93
Mean −0.004472
Std Dev 1.024

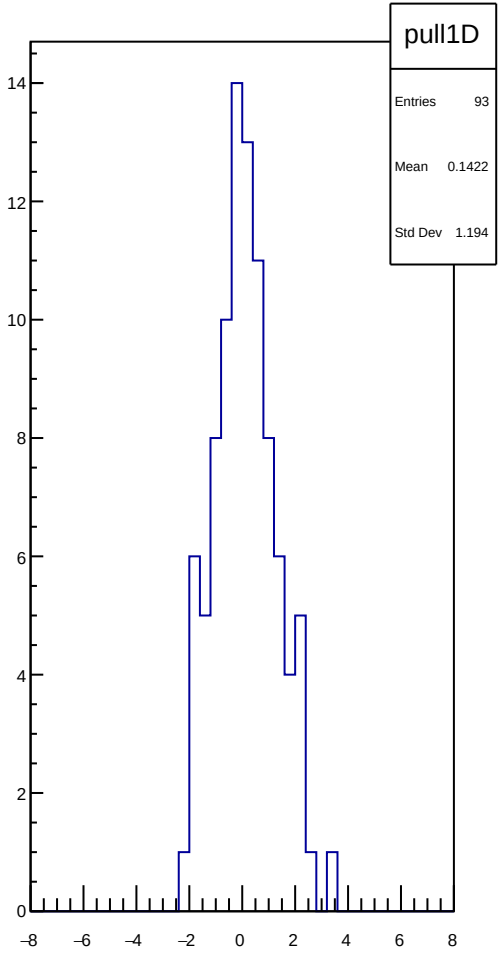

asym_sam4_dit_vs_cor_diff_rms vs run
χ^2 / ndf 6.315e+04 / 92
p0 128.1 ± 0.09667
240
220
200
180
160
140
120
100

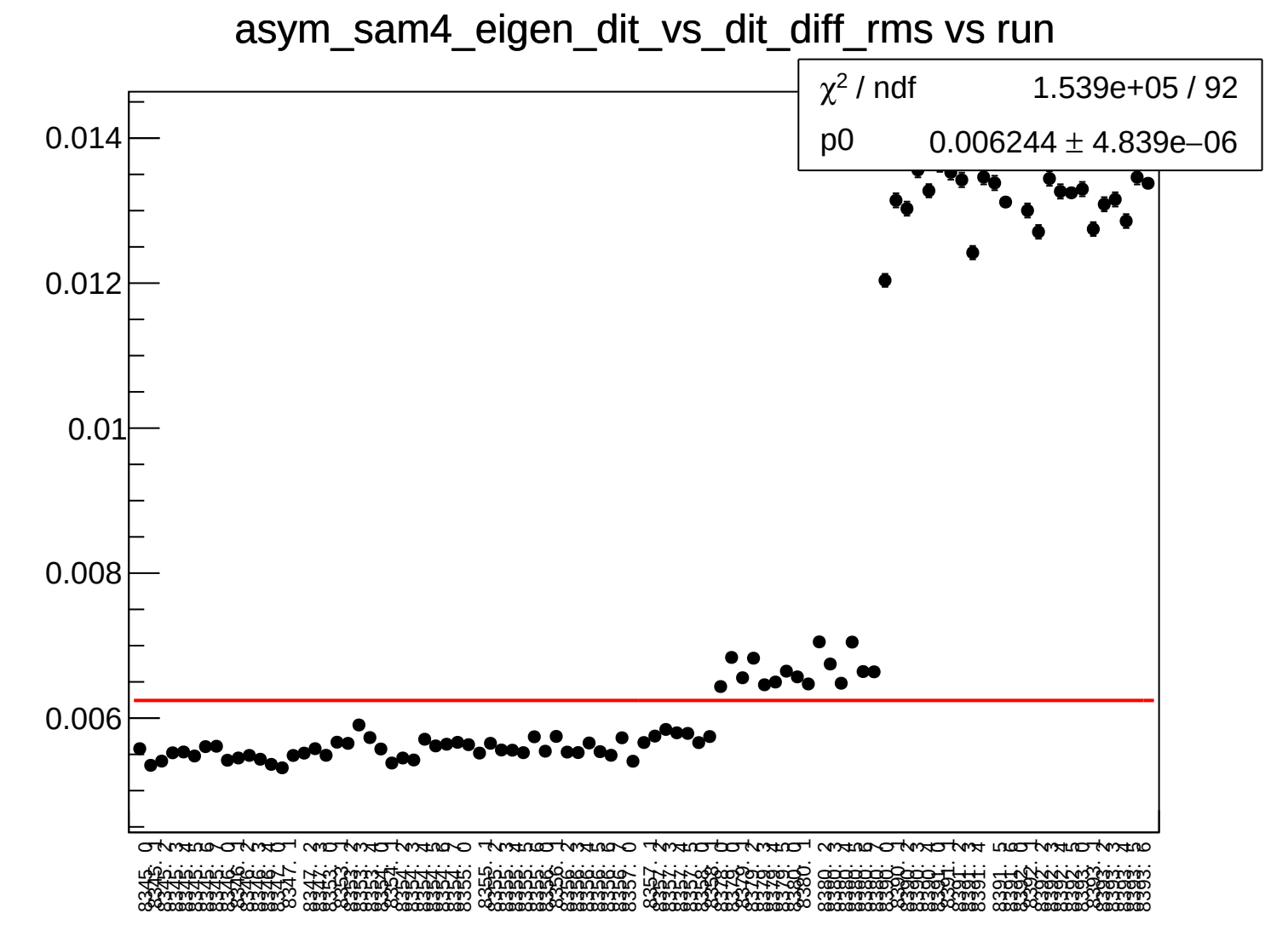

asym_sam4_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.55 / 92
p0 −0.4733 ± 0.1367
pull
Entries 93
Mean 477.8
Std Dev 0

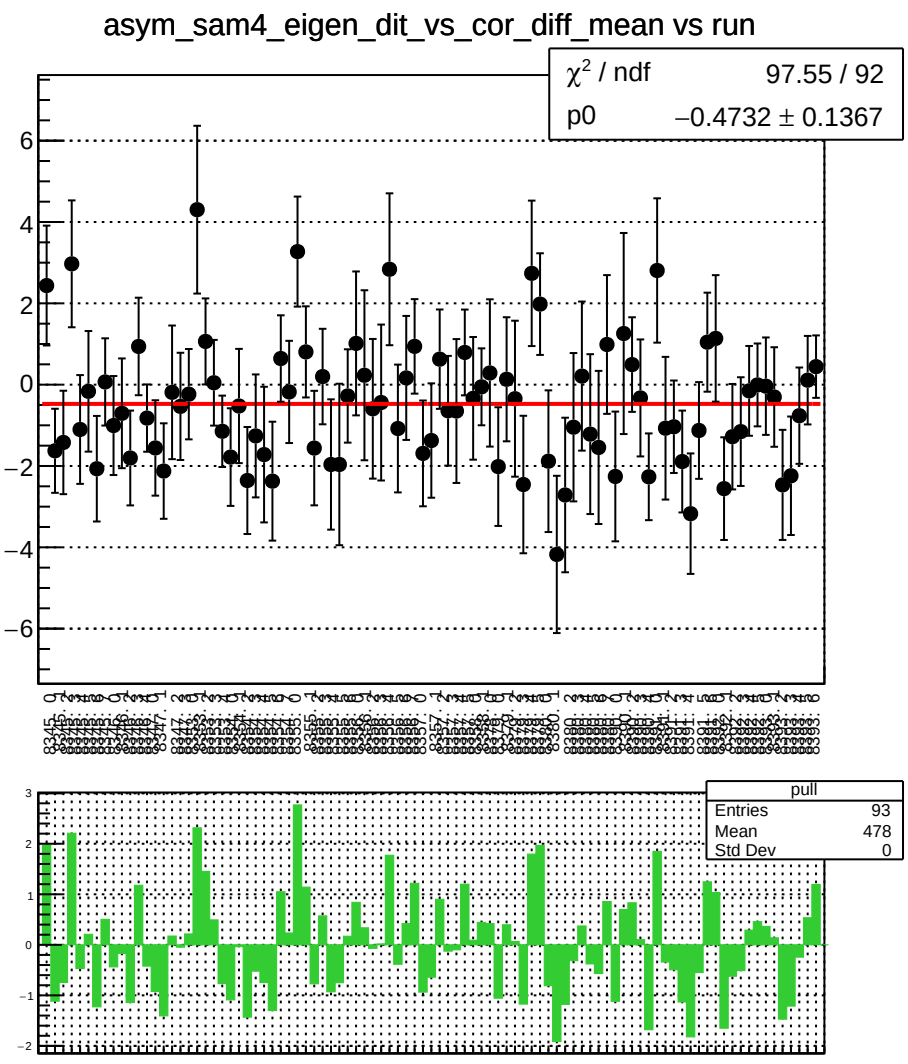

pull1D
Entries 93
Mean −0.004472
Std Dev 1.024

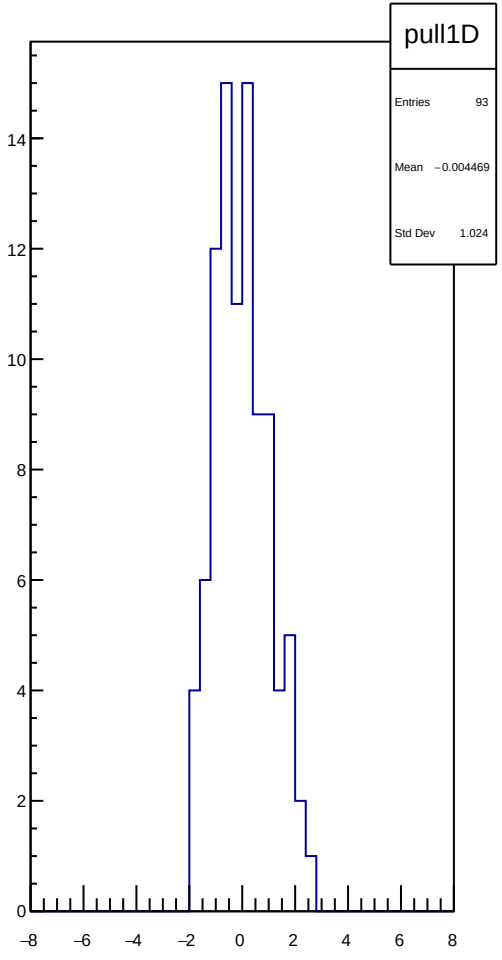

asym_sam4_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 6.315e+04 / 92
p0 128.1 ± 0.09667
240
220
200
180
160
140
120
100

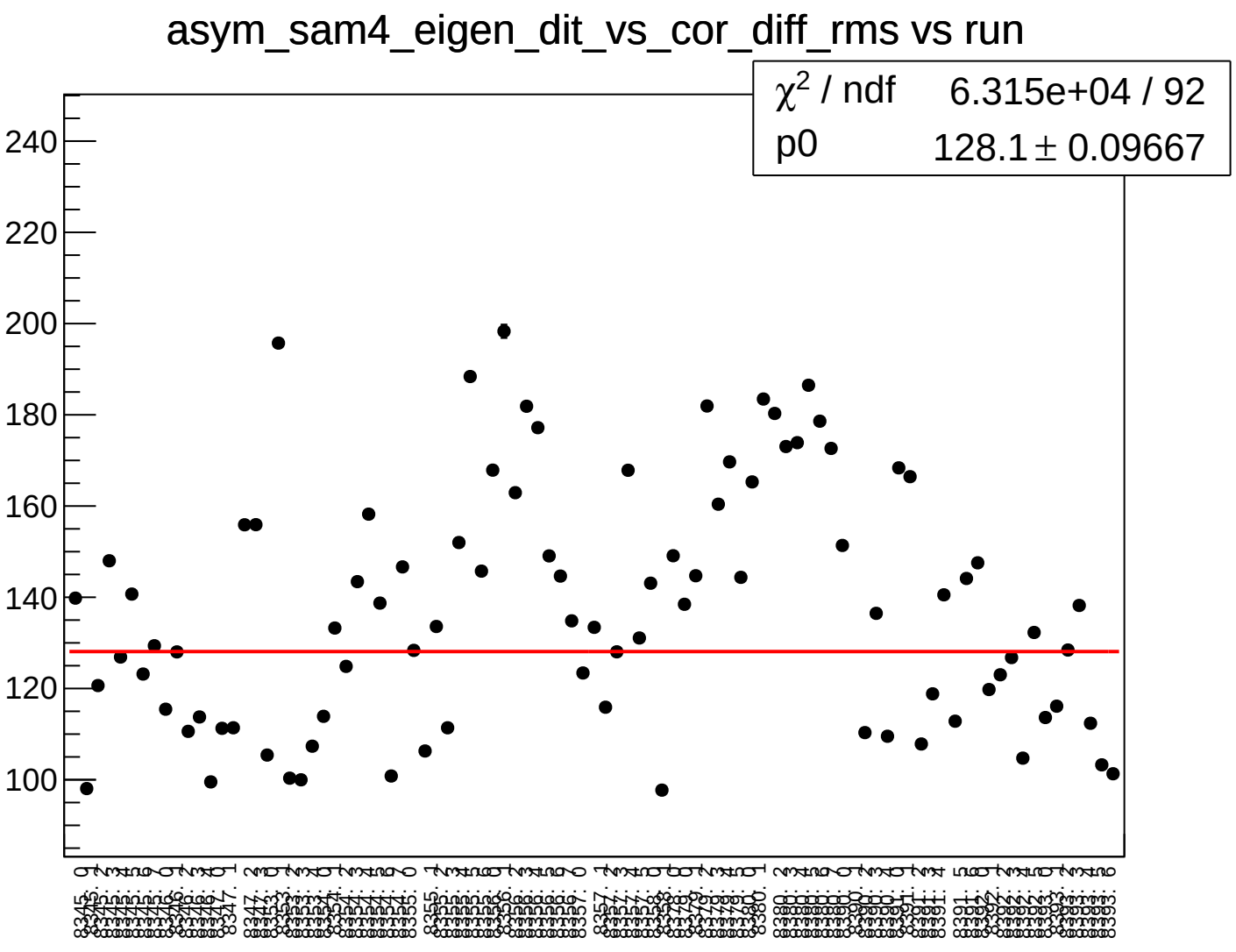

asym_sam4_eigen_dit_vs_dit_diff_mean vs run
×10−3
χ2 / ndf 134.4 / 92
p0 2.767e−06 ± 6.843e−06
0.6
0.4
0.2
0
−0.2
−0.4
pull
Entries 93
Mean 129.8
Std Dev 0
3
2
1
0
−1
−2

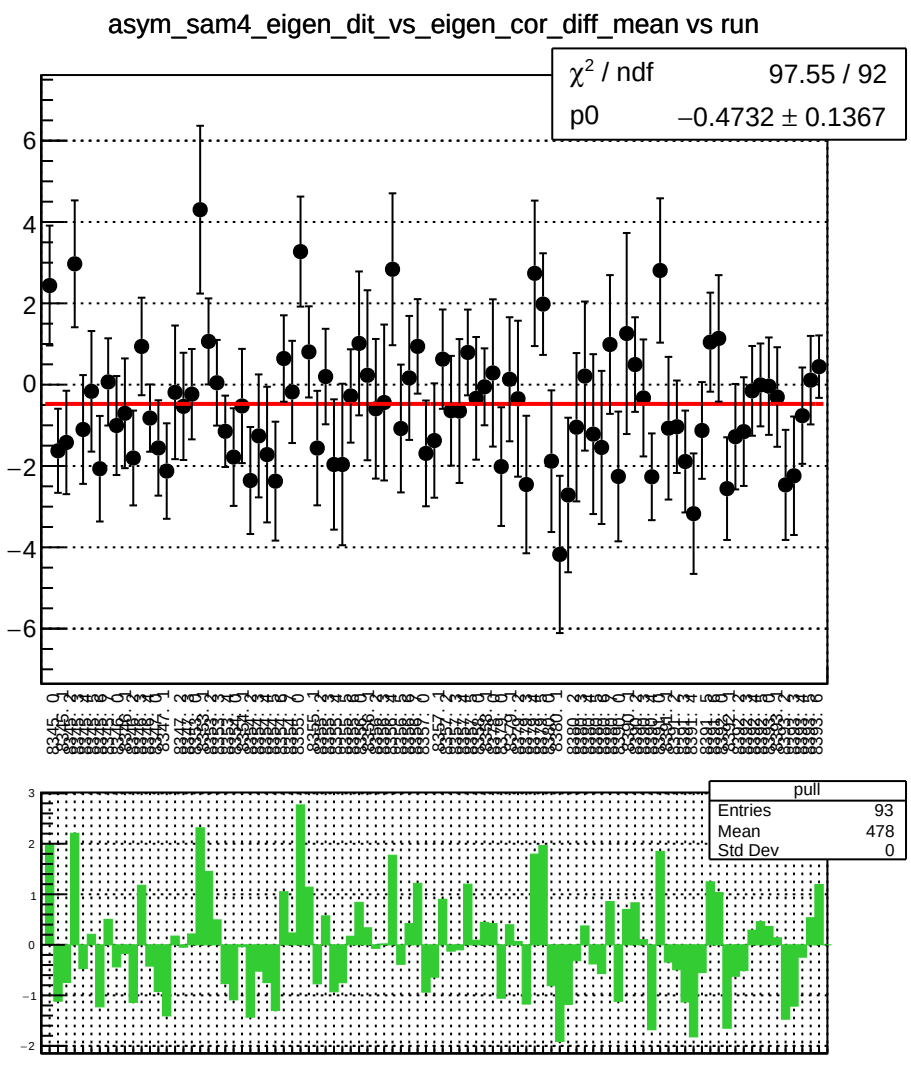

pull1D
Entries 93
Mean 0.1422
Std Dev 1.194
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

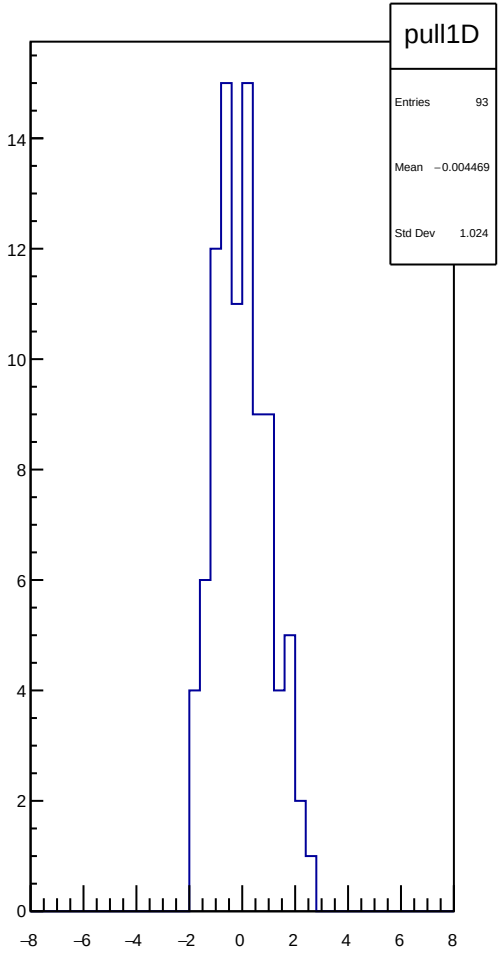

asym_sam4_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.539e+05 / 92
p0 0.006244 ± 4.839e−06
0.014
0.012
0.01
0.008
0.006

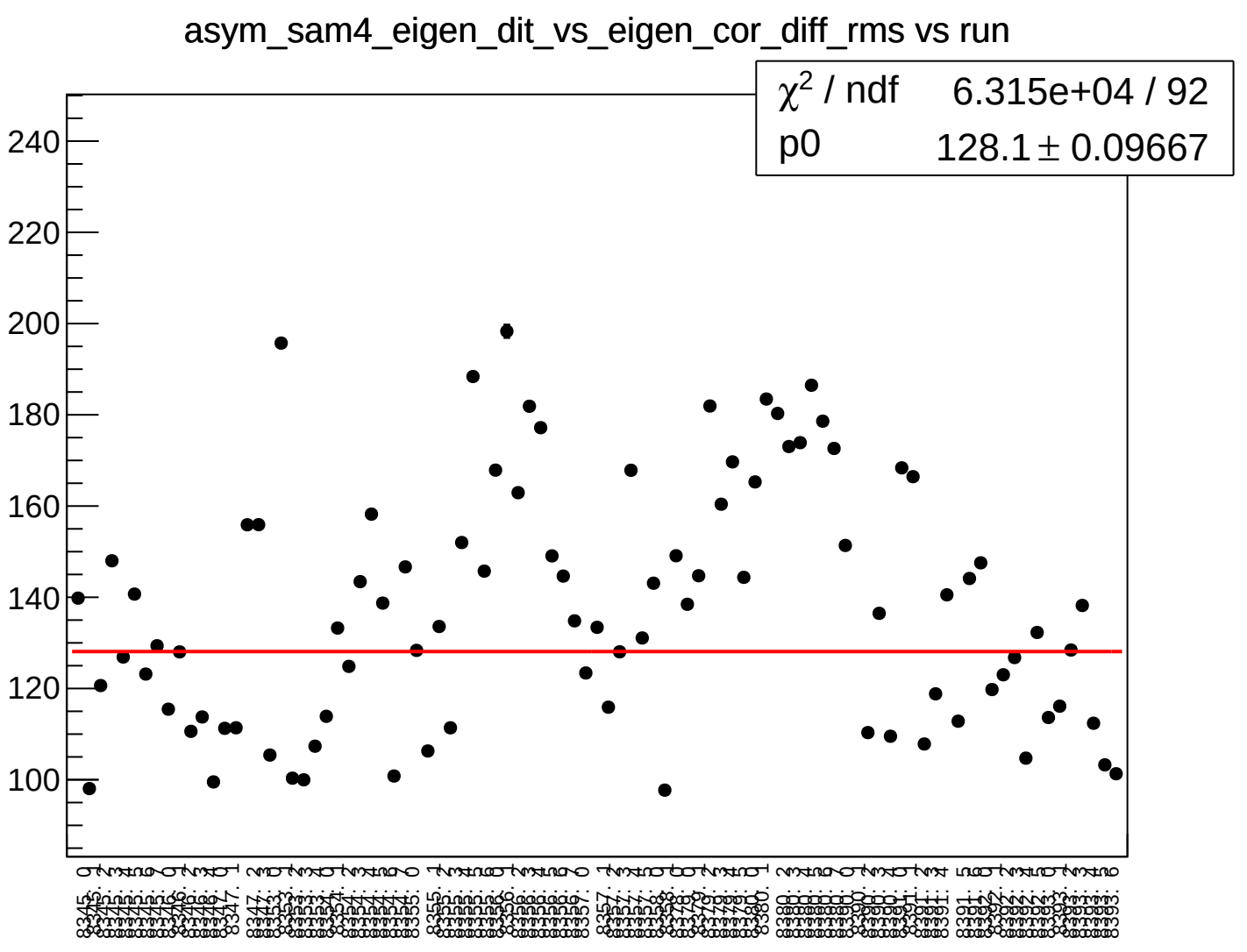

asym_sam4_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.55 / 92
p0 −0.4732 ± 0.1367
pull
Entries 93
Mean 478
Std Dev 0

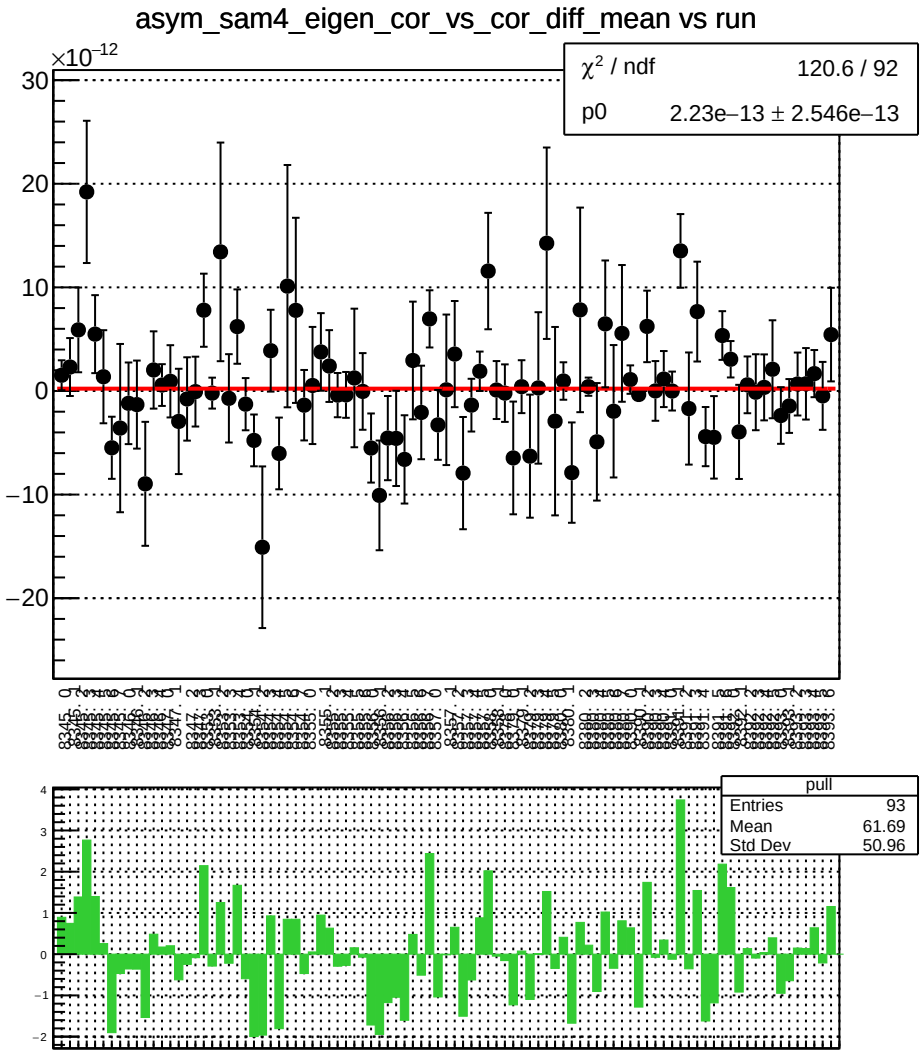

pull1D
Entries 93
Mean −0.004469
Std Dev 1.024

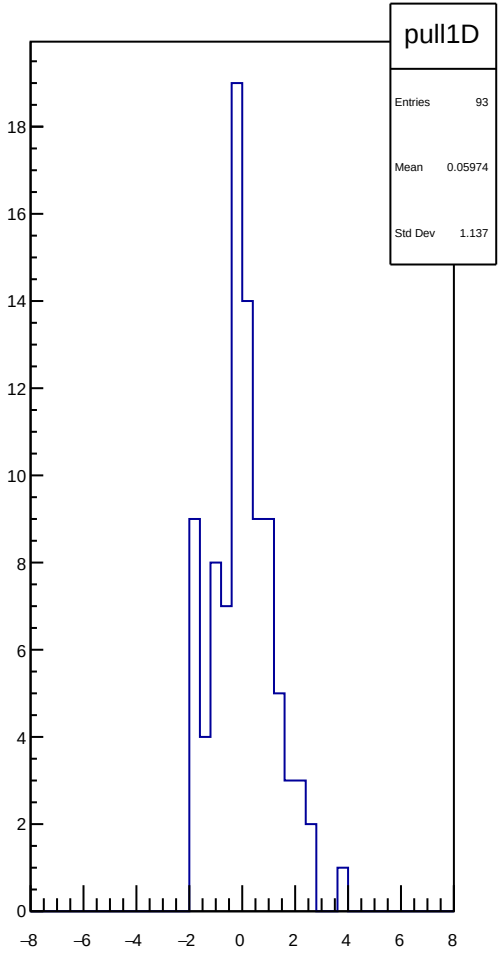

asym_sam4_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 6.315e+04 / 92
p0 128.1 ± 0.09667
240
220
200
180
160
140
120
100

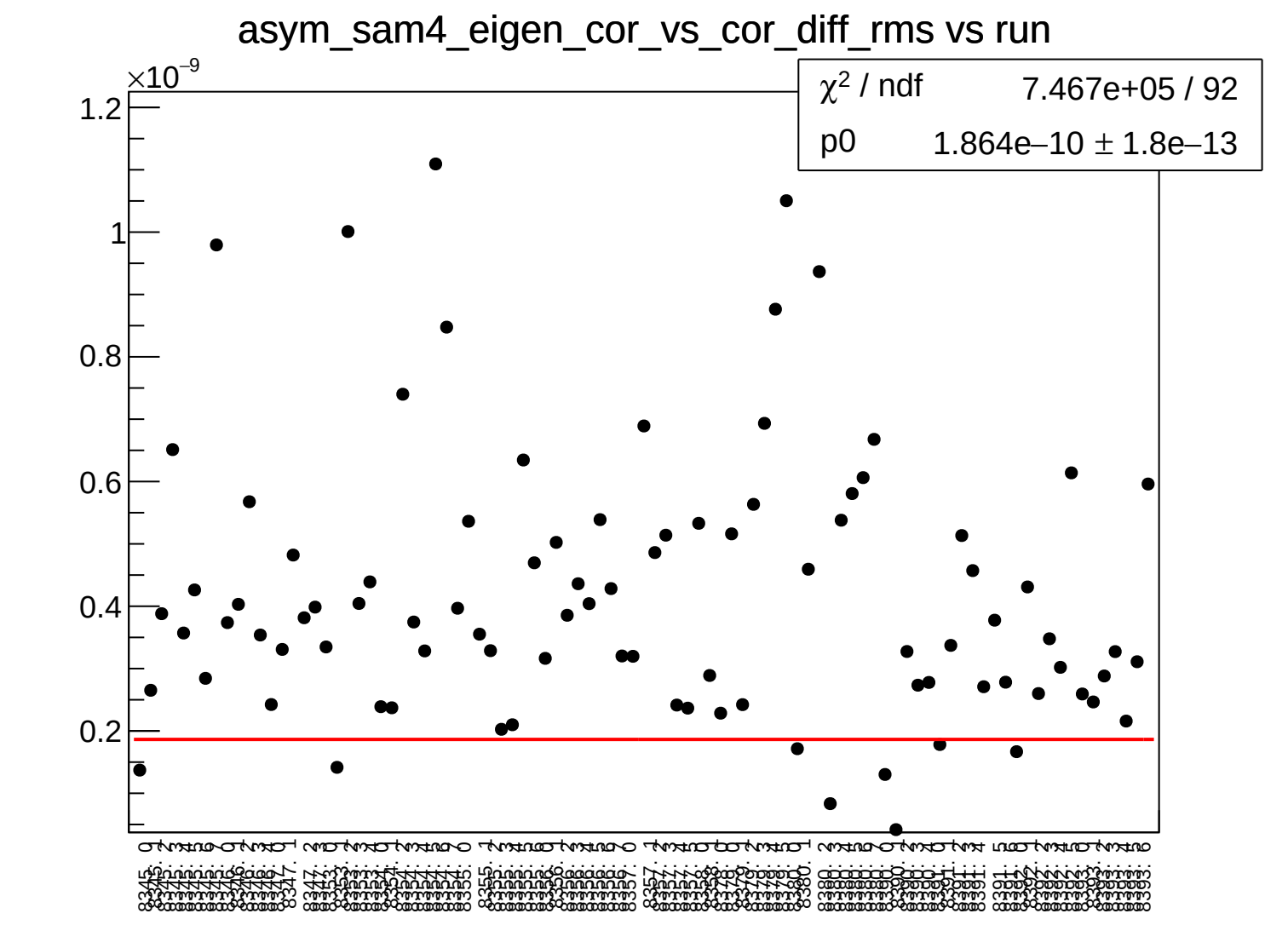

asym_sam4_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.55 / 92
p0 −0.4732 ± 0.1367
pull
Entries 93
Mean 478
Std Dev 0

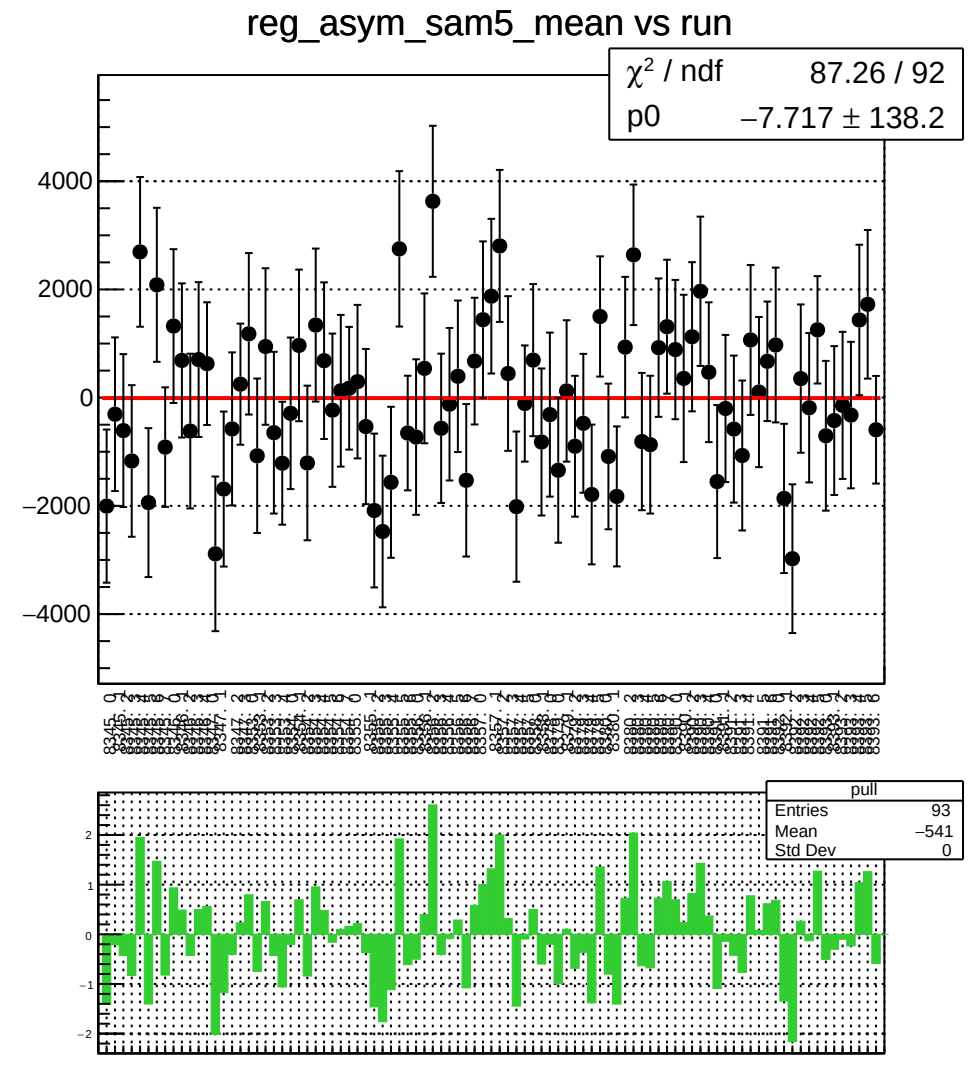

pull1D
Entries 93
Mean −0.004469
Std Dev 1.024

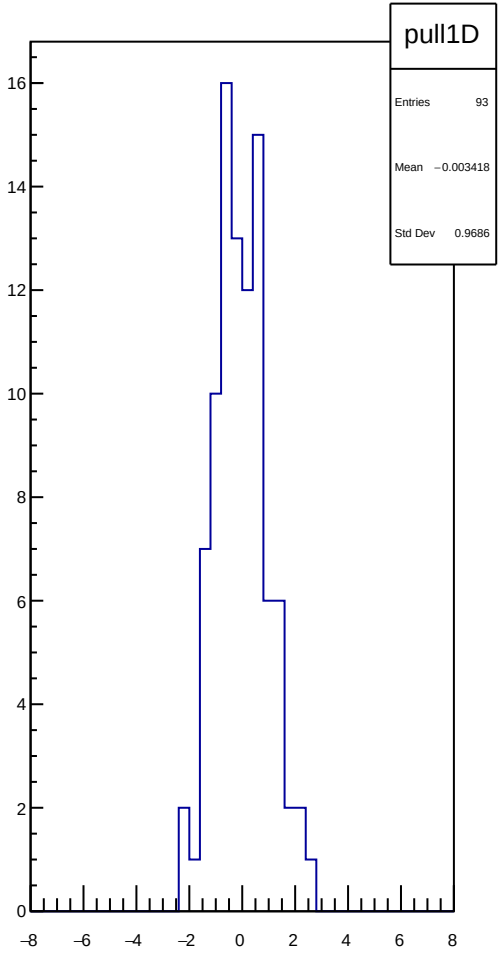

asym_sam4_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.315e+04 / 92
p0 128.1 ± 0.09667
240
220
200
180
160
140
120
100

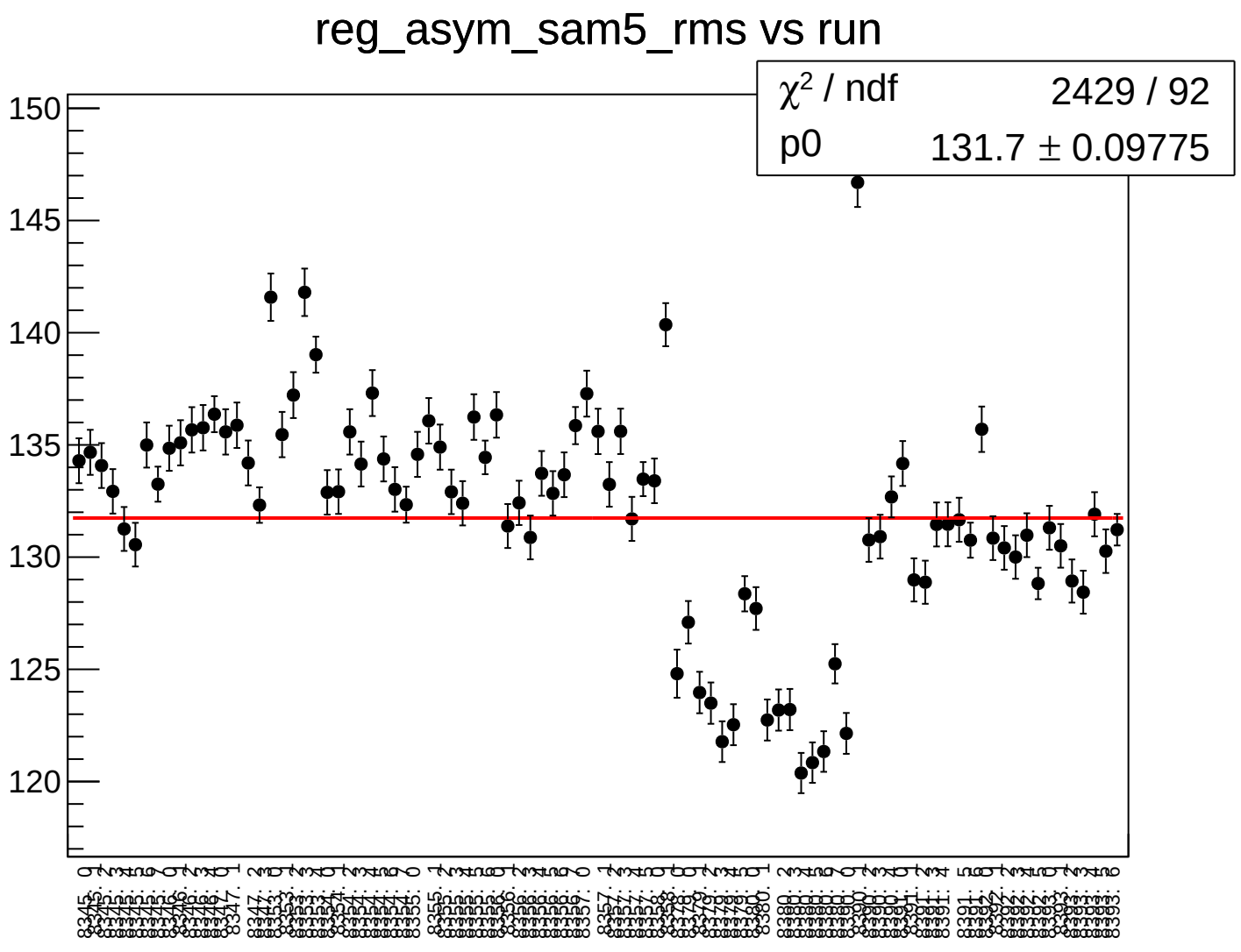

asym_sam4_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 120.6 / 92
p0 2.23e−13 ± 2.546e−13
pull
Entries 93
Mean 61.69
Std Dev 50.96

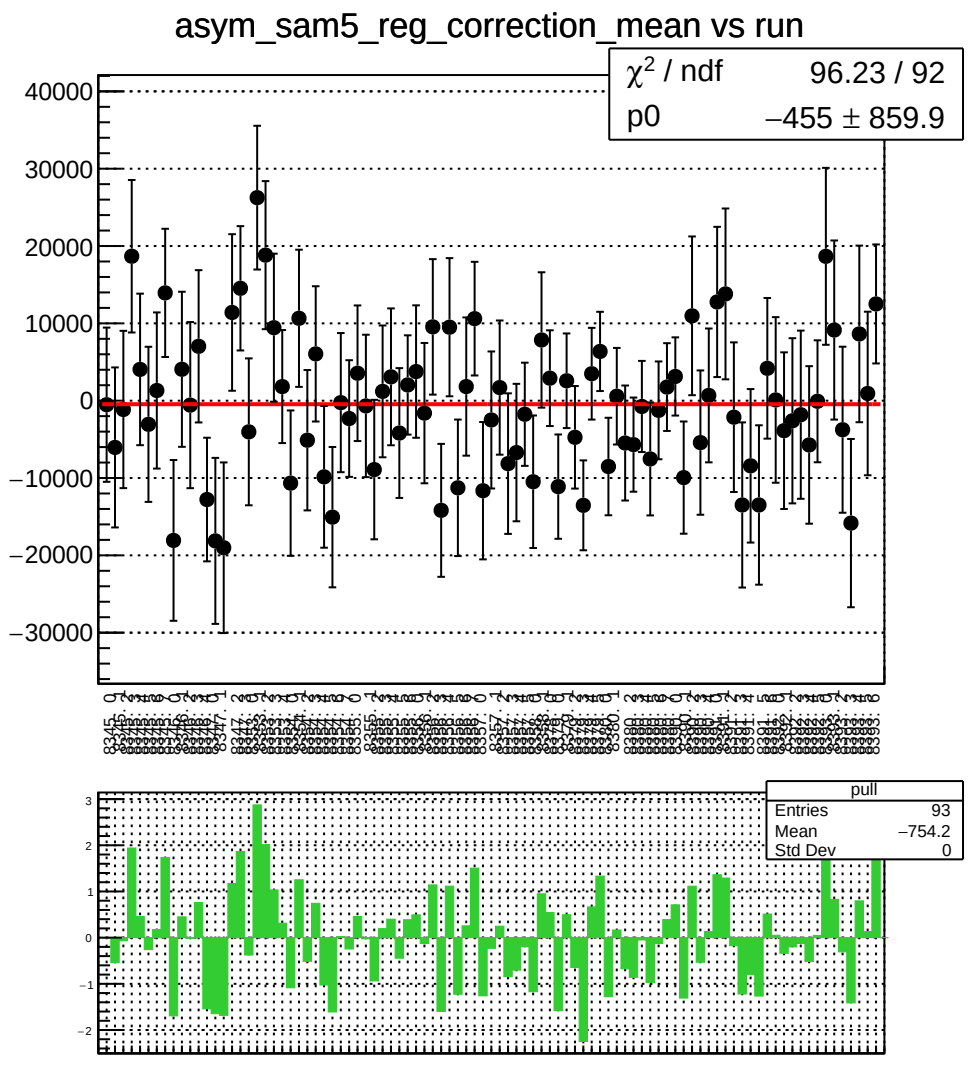

pull1D
Entries 93
Mean 0.05974
Std Dev 1.137

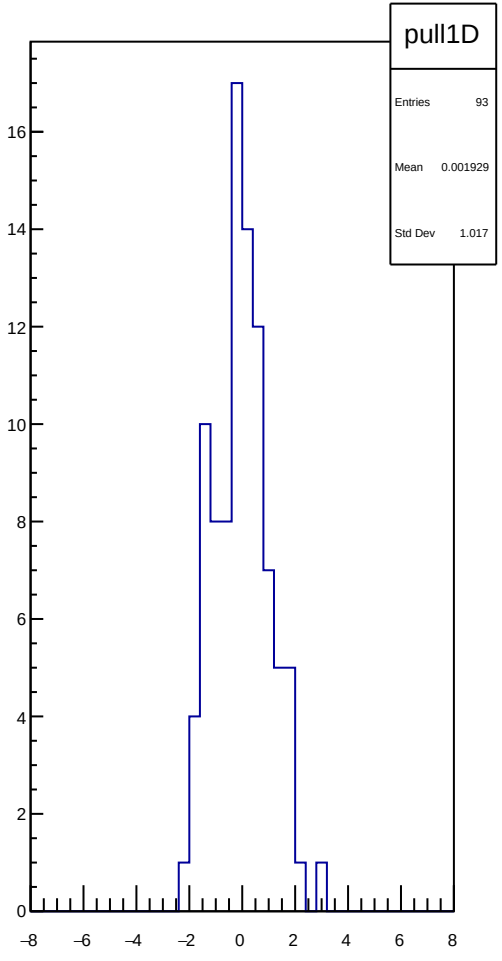

asym_sam4_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.467e+05 / 92
p0 1.864e−10 ± 1.8e−13
1.2
1
0.8
0.6
0.4
0.2

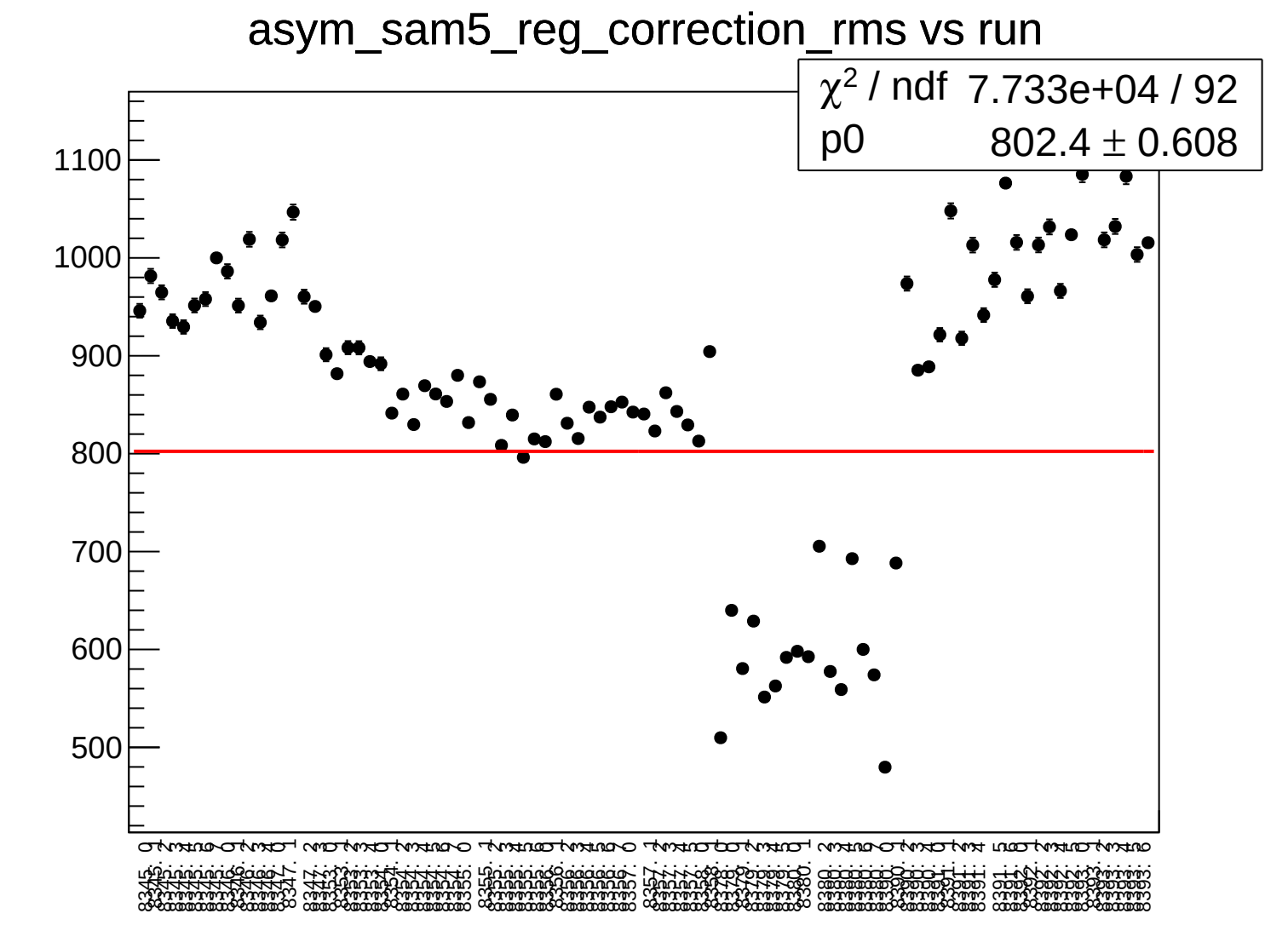

reg_asym_sam5_mean vs run
χ² / ndf 87.26 / 92
p0 −7.717 ± 138.2
4000
2000
0
−2000
−4000
pull
Entries 93
Mean −541
Std Dev 0
2
1
0
−1
−2

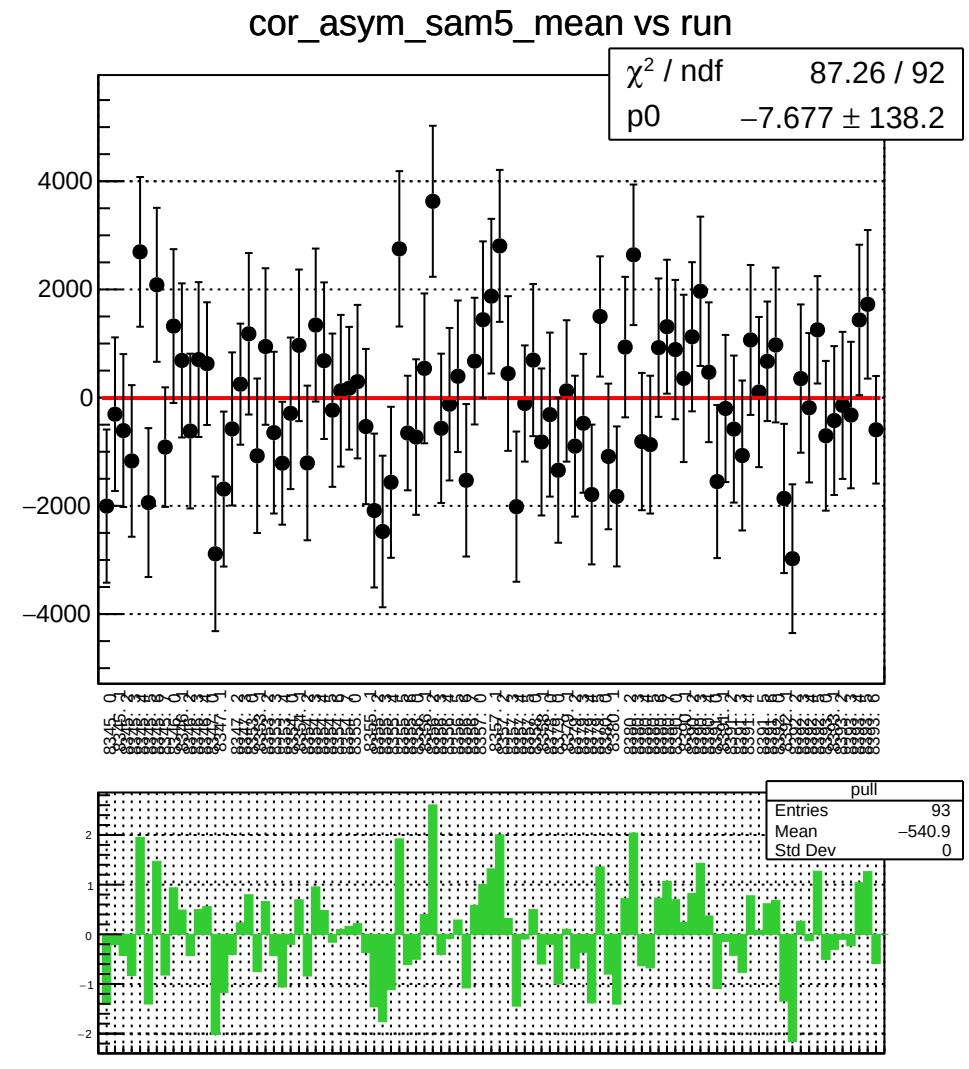

pull1D
Entries 93
Mean −0.003418
Std Dev 0.9686
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

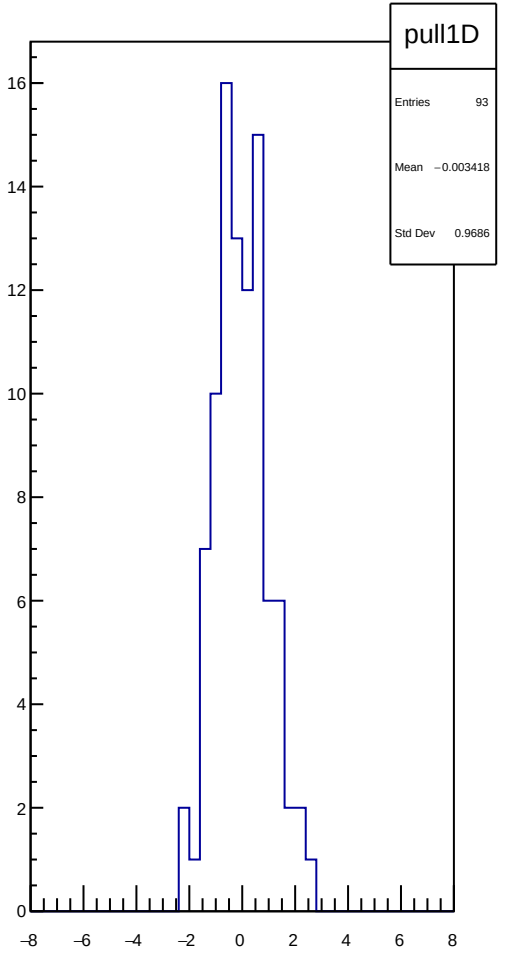

reg_asym_sam5_rms vs run
χ² / ndf 2429 / 92
p0 131.7 ± 0.09775
150
145
140
135
130
125
120

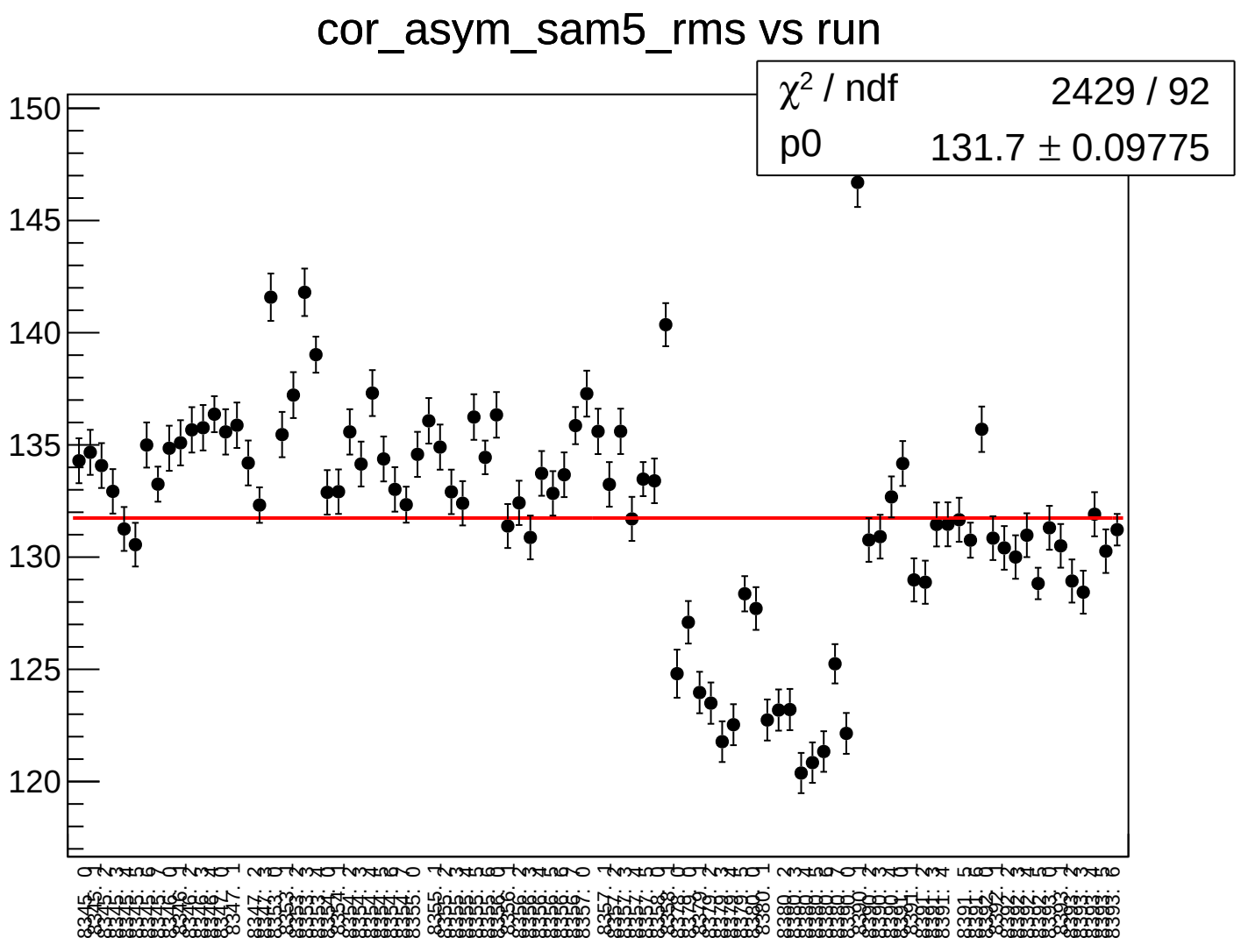

asym_sam5_reg_correction_mean vs run
χ² / ndf 96.23 / 92
p0 −455 ± 859.9
pull
Entries 93
Mean −754.2
Std Dev 0

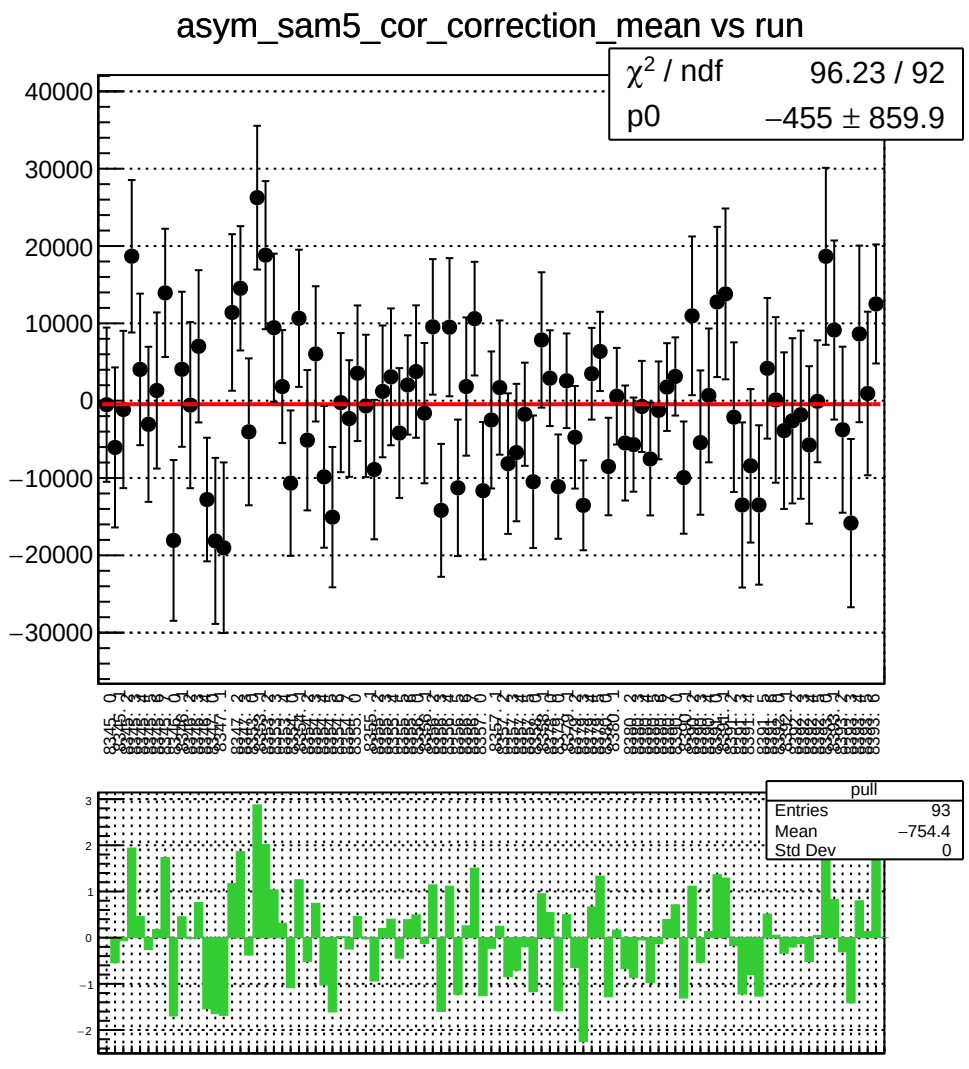

pull1D
Entries 93
Mean 0.001929
Std Dev 1.017

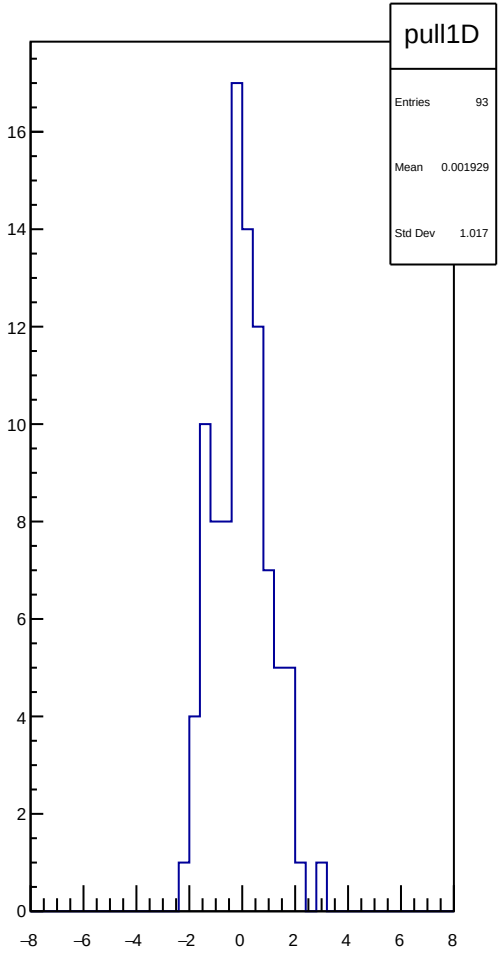

asym_sam5_reg_correction_rms vs run
χ² / ndf 7.733e+04 / 92
p0 802.4 ± 0.608
1100
1000
900
800
700
600
500

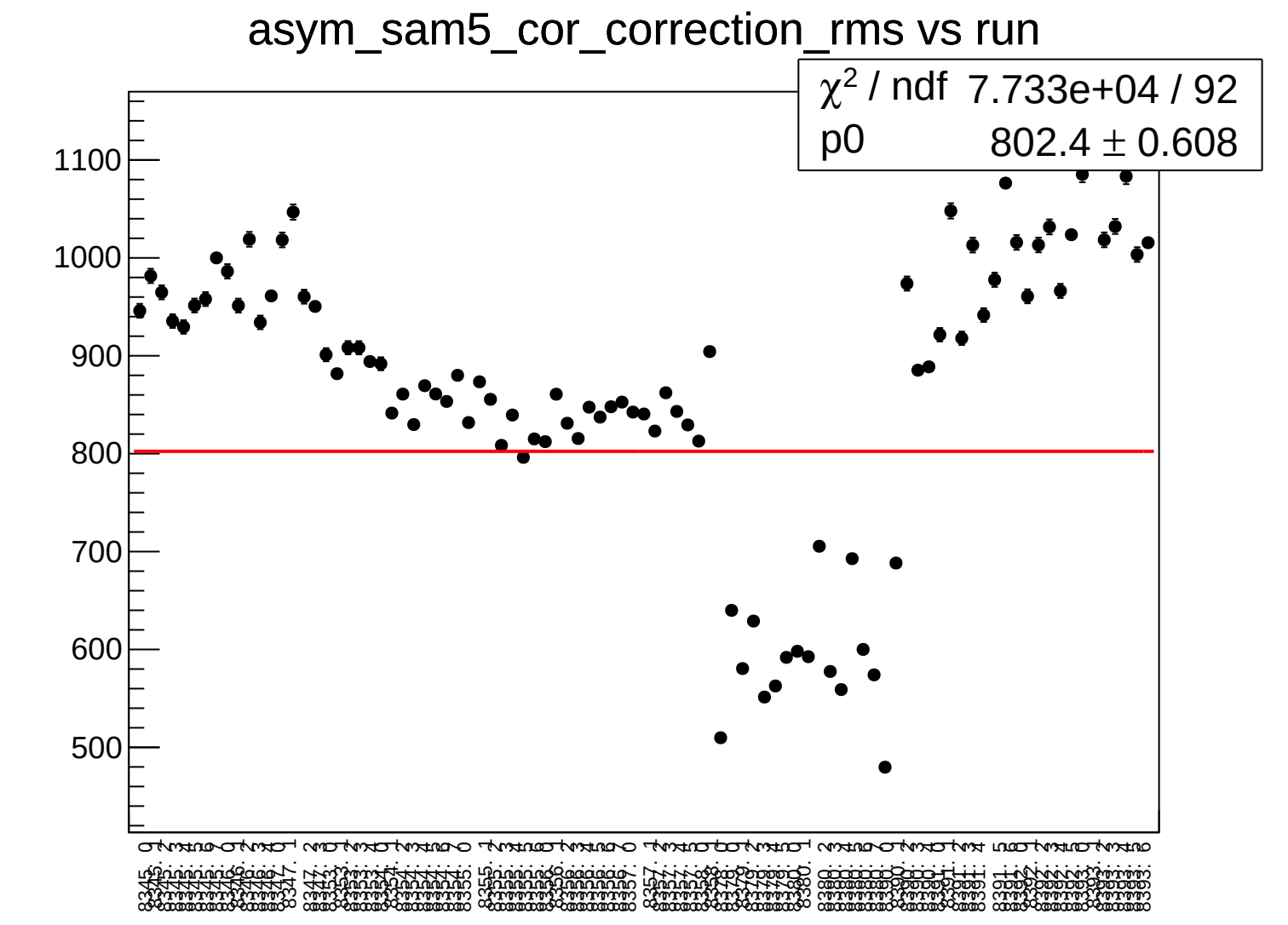

cor_asym_sam5_mean vs run
χ² / ndf 87.26 / 92
p0 −7.677 ± 138.2
4000
2000
0
−2000
−4000
pull
Entries 93
Mean −540.9
Std Dev 0
2
1
0
−1
−2

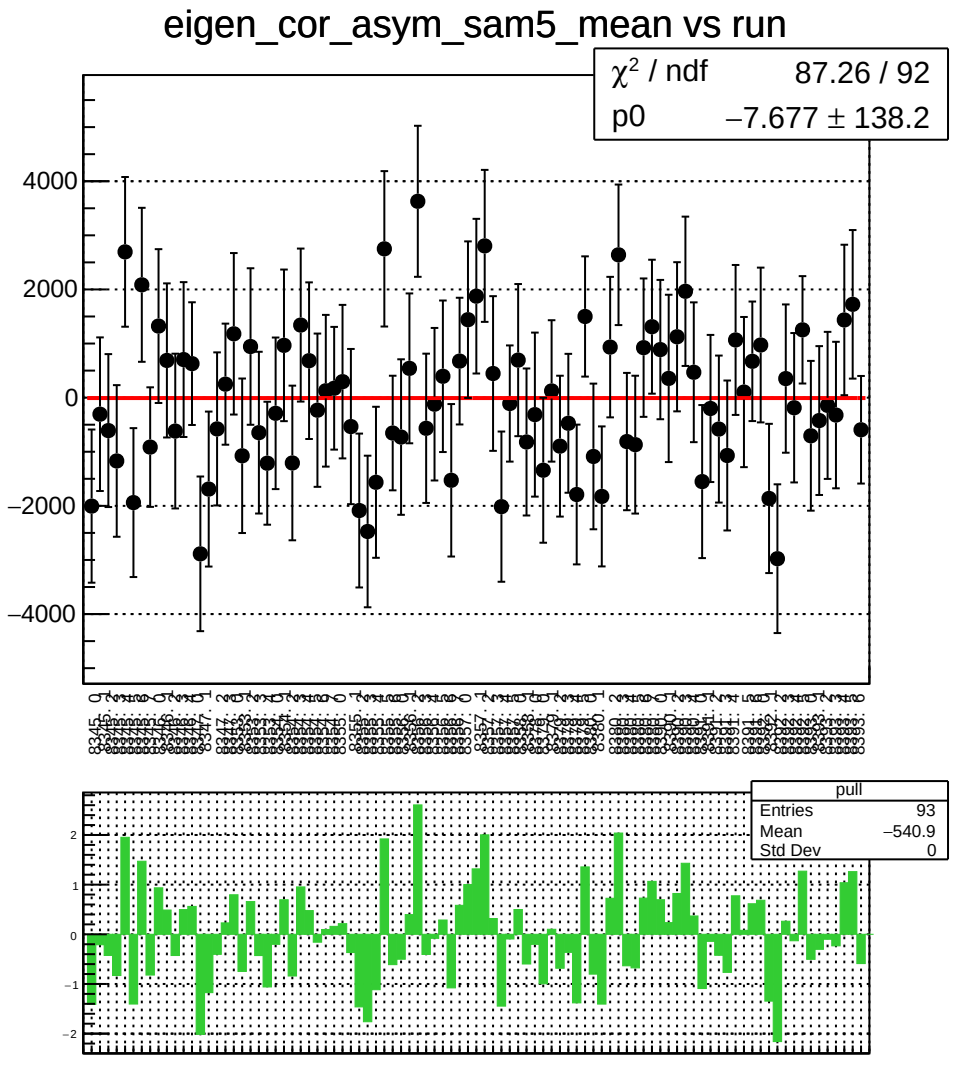

pull1D
Entries 93
Mean −0.003418
Std Dev 0.9686
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

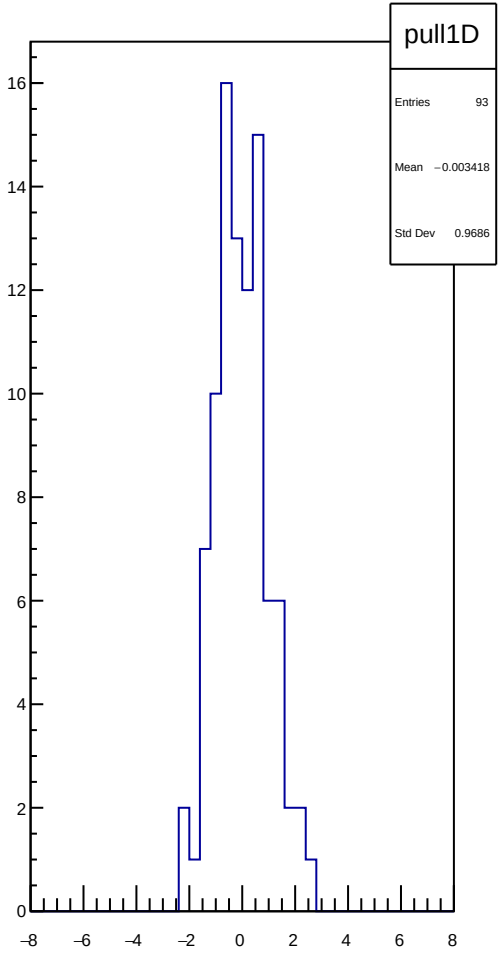

cor_asym_sam5_rms vs run
χ^2 / ndf 2429 / 92
p0 131.7 ± 0.09775
150
145
140
135
130
125
120

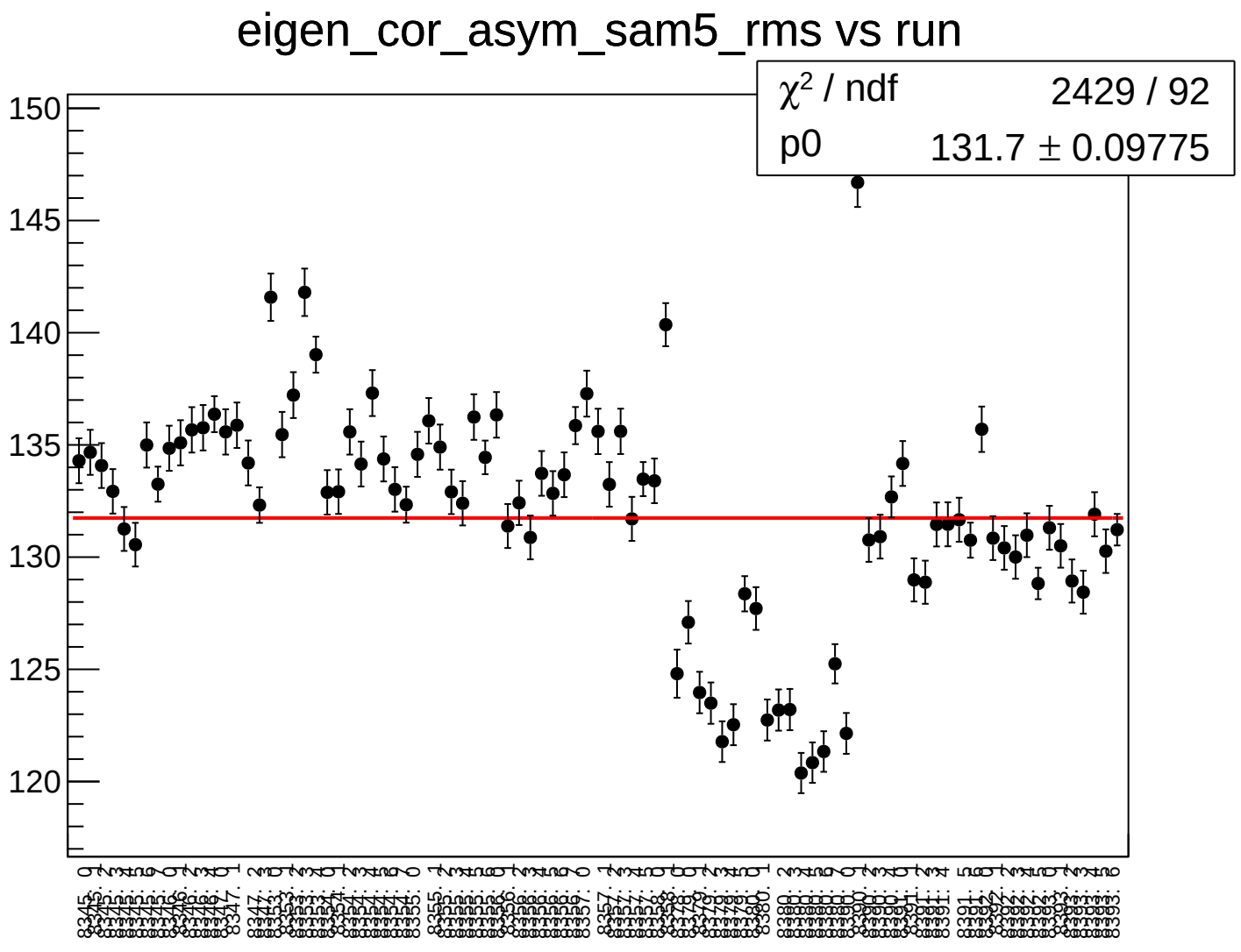

asym_sam5_cor_correction_mean vs run
χ² / ndf 96.23 / 92
p0 −455 ± 859.9
pull
Entries 93
Mean −754.4
Std Dev 0

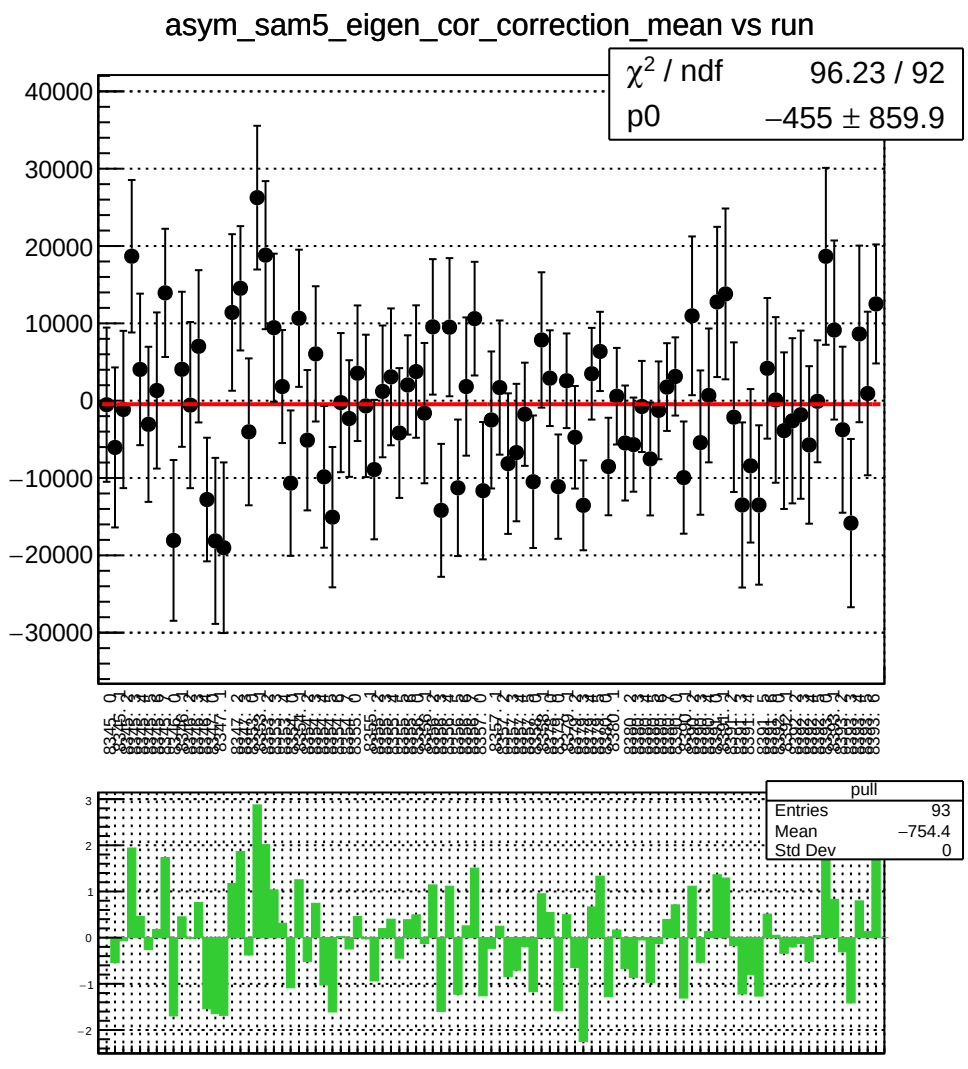

pull1D
Entries 93
Mean 0.001929
Std Dev 1.017

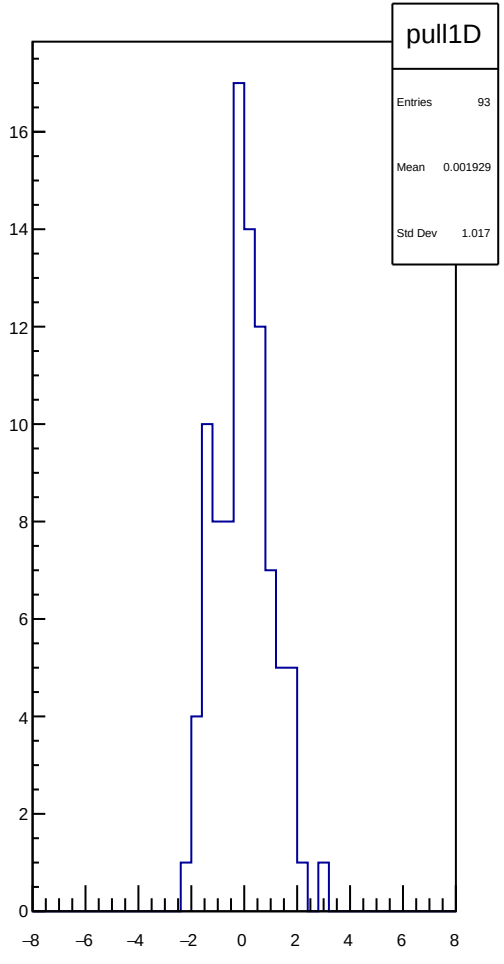

asym_sam5_cor_correction_rms vs run
χ² / ndf 7.733e+04 / 92
p0 802.4 ± 0.608
1100
1000
900
800
700
600
500

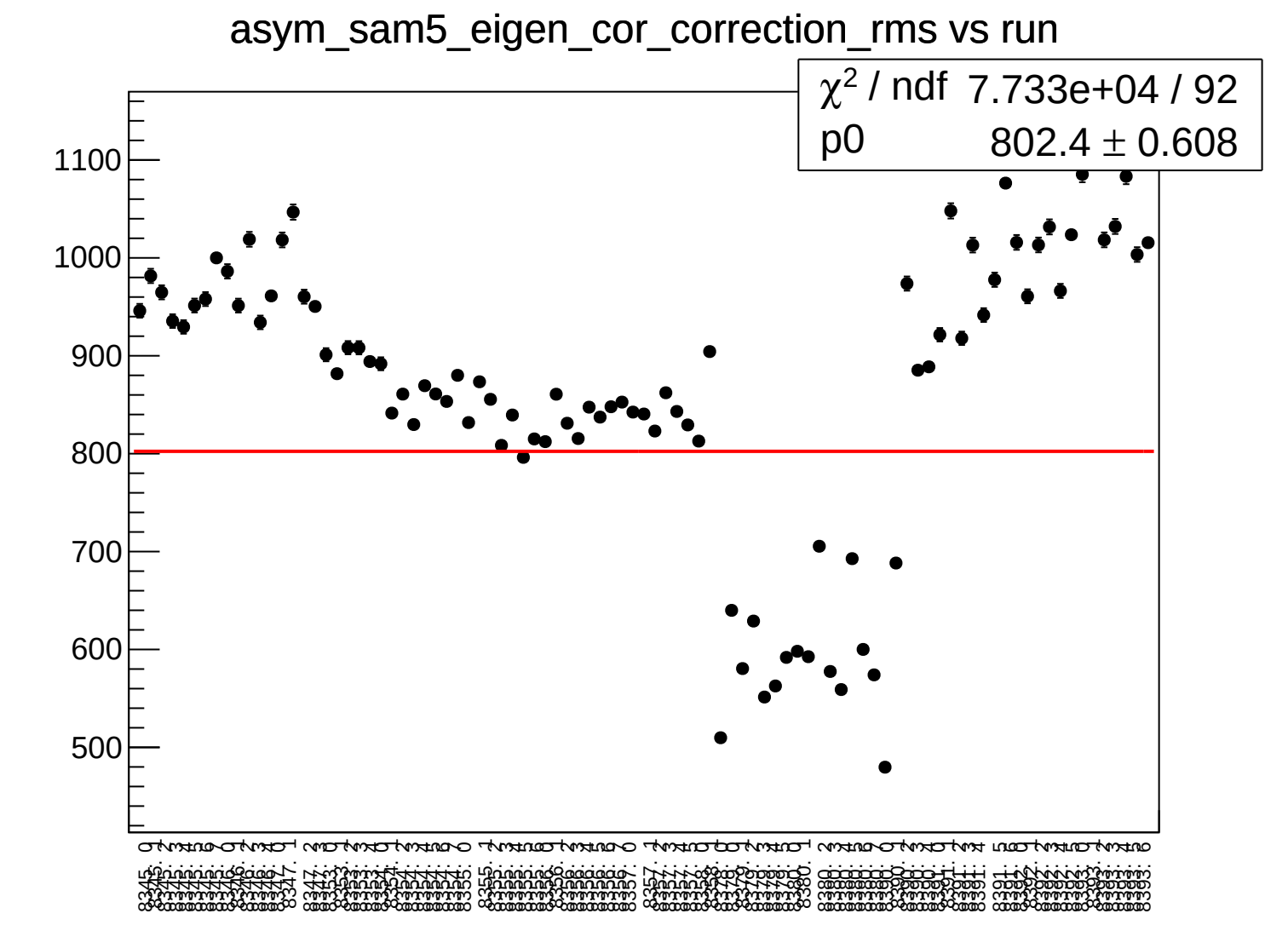

eigen_cor_asym_sam5_mean vs run
χ² / ndf 87.26 / 92
p0 −7.677 ± 138.2
4000
2000
0
−2000
−4000
pull
Entries 93
Mean −540.9
Std Dev 0
2
1
0
−1
−2

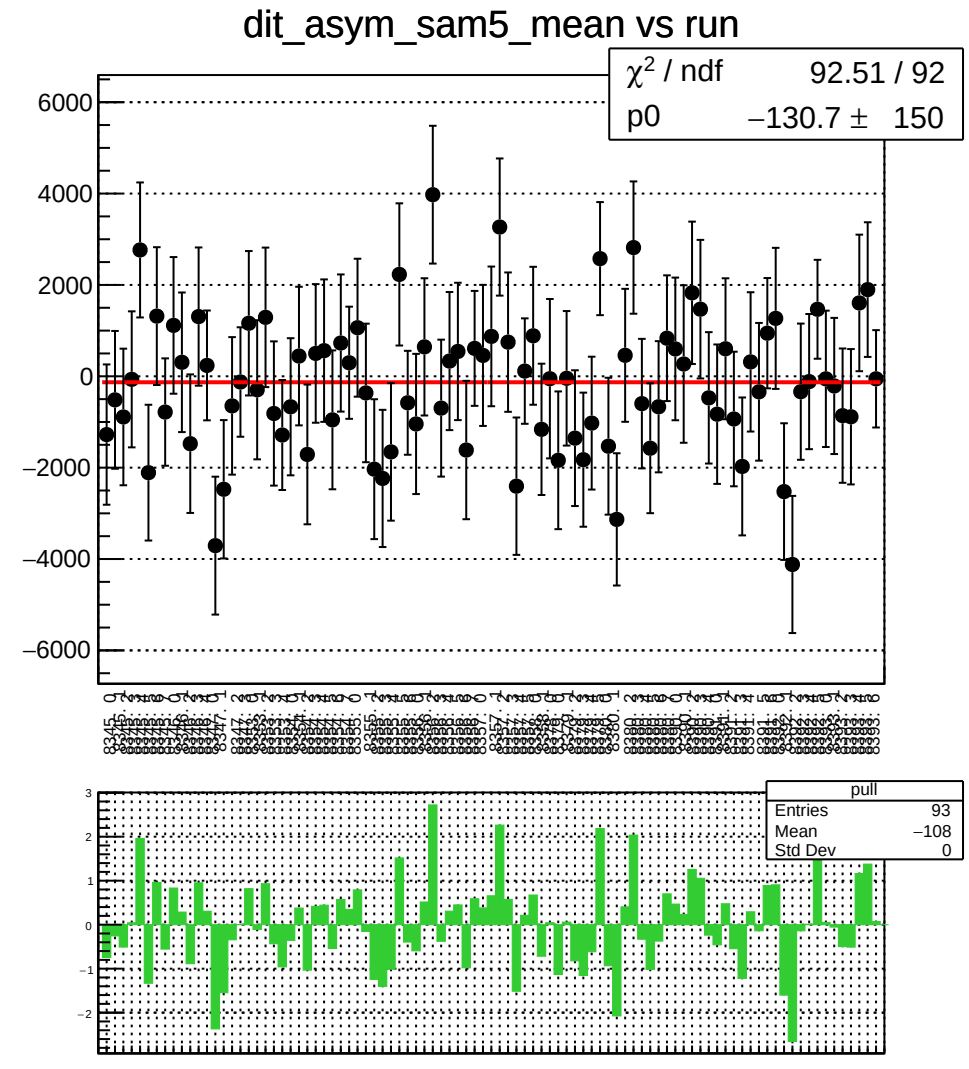

pull1D
Entries 93
Mean −0.003418
Std Dev 0.9686
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

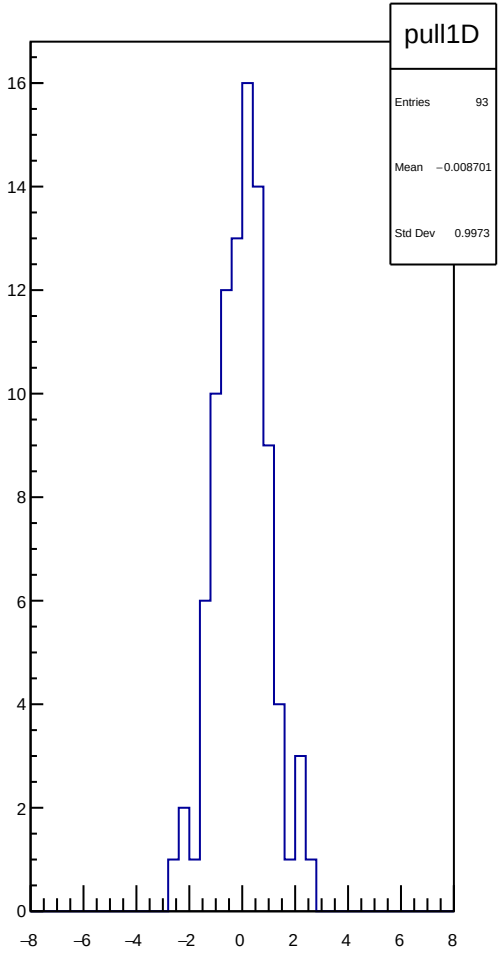

eigen_cor_asym_sam5_rms vs run
χ² / ndf 2429 / 92
p0 131.7 ± 0.09775
150
145
140
135
130
125
120

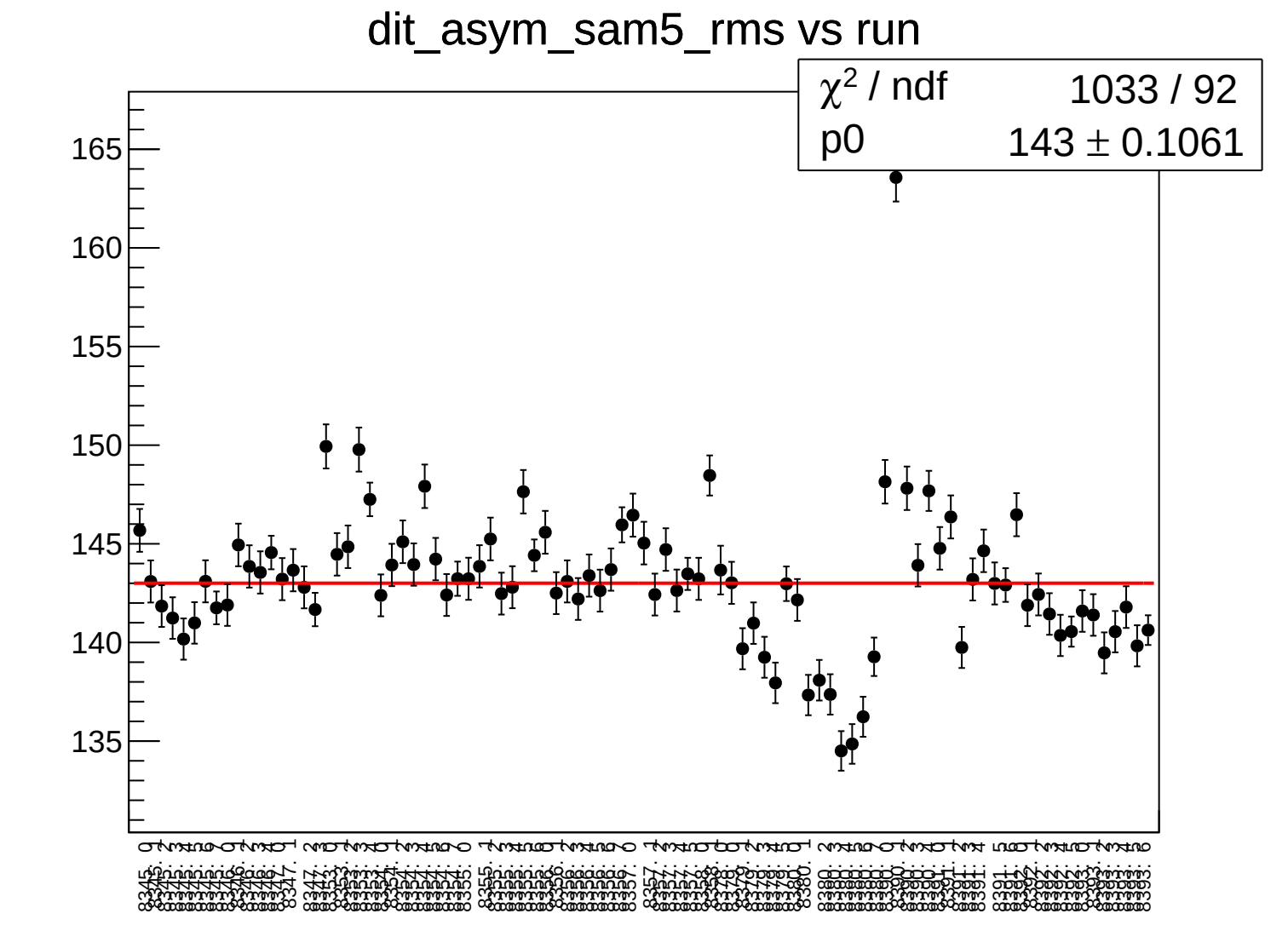

asym_sam5_eigen_cor_correction_mean vs run
χ² / ndf 96.23 / 92
p0 −455 ± 859.9
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −754.4
Std Dev 0
3
2
1
0
−1
−2

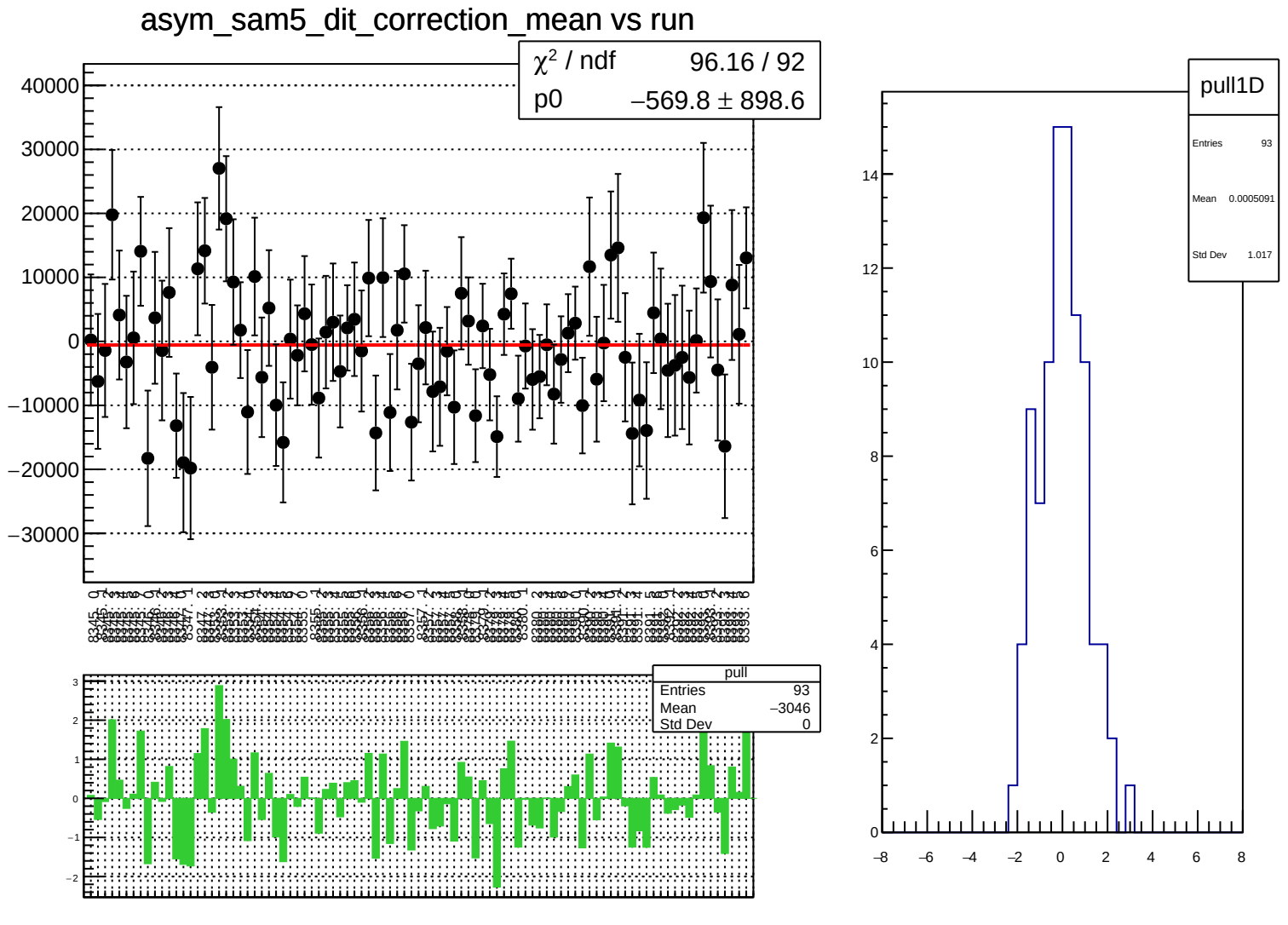

pull1D
Entries 93
Mean 0.001929
Std Dev 1.017
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

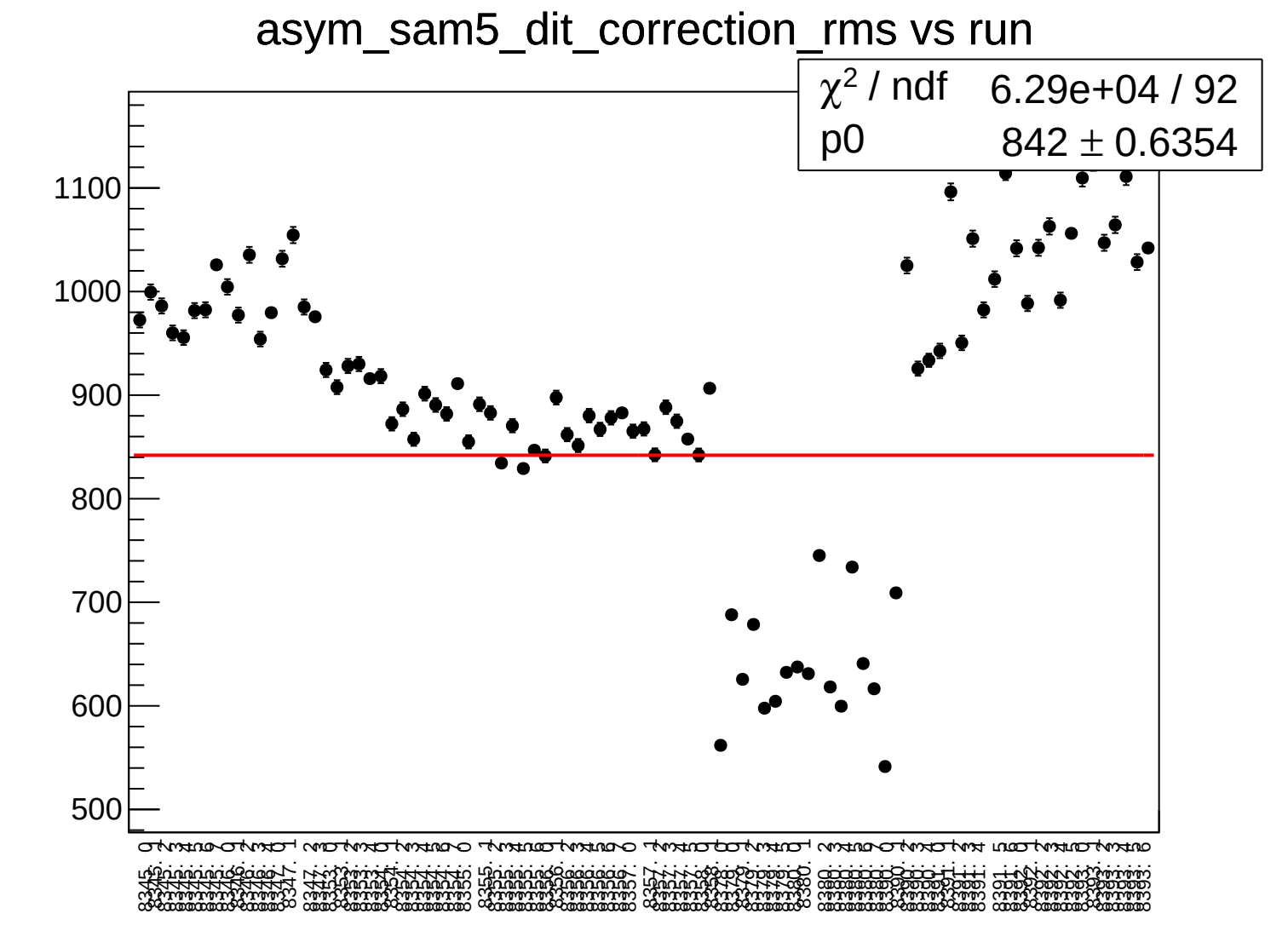

asym_sam5_eigen_cor_correction_rms vs run
χ² / ndf 7.733e+04 / 92
p0 802.4 ± 0.608
1100
1000
900
800
700
600
500

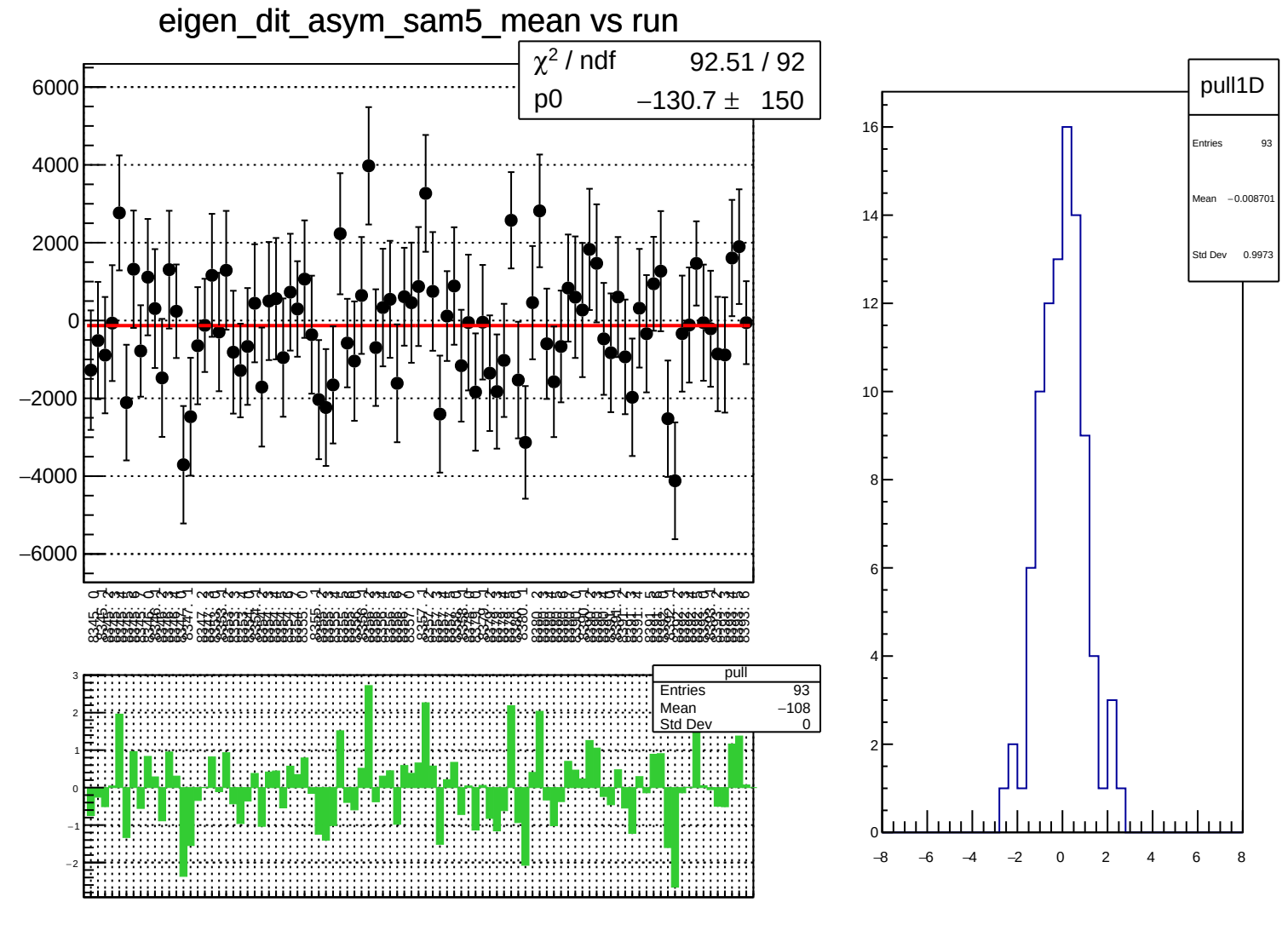

dit_asym_sam5_mean vs run
χ² / ndf 92.51 / 92
p0 −130.7 ± 150
pull
Entries 93
Mean −108
Std Dev 0

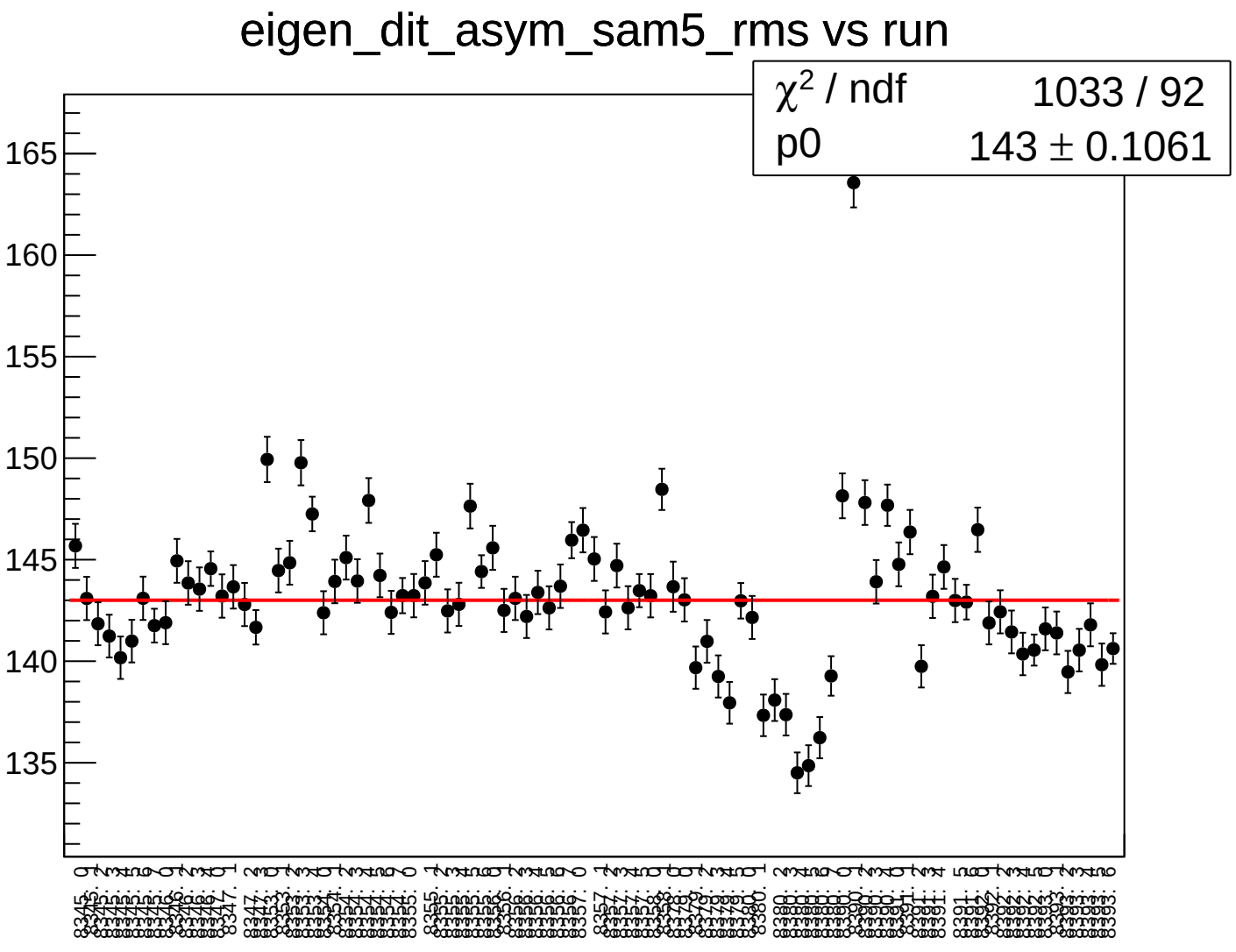

pull1D
Entries 93
Mean −0.008701
Std Dev 0.9973

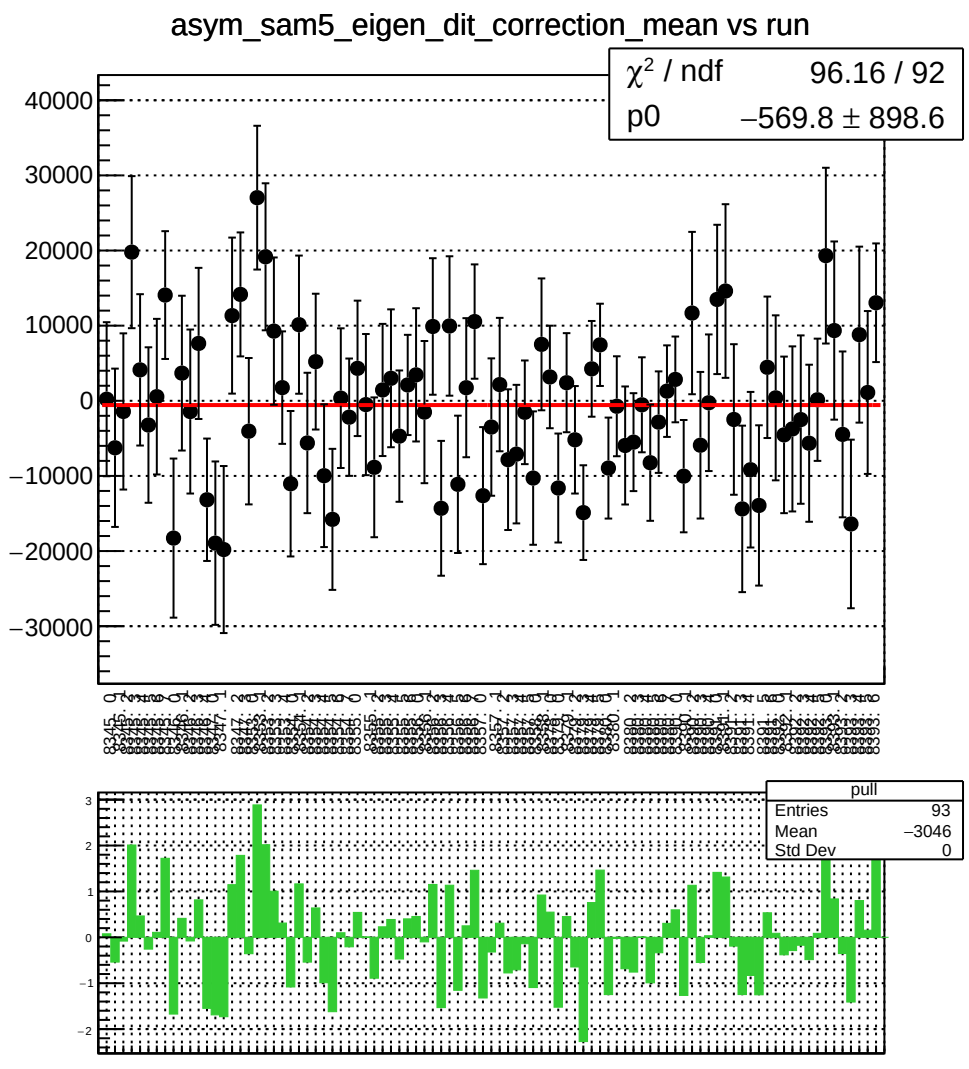

dit_asym_sam5_rms vs run
χ^2 / ndf 1033 / 92
p0 143 ± 0.1061
165
160
155
150
145
140
135

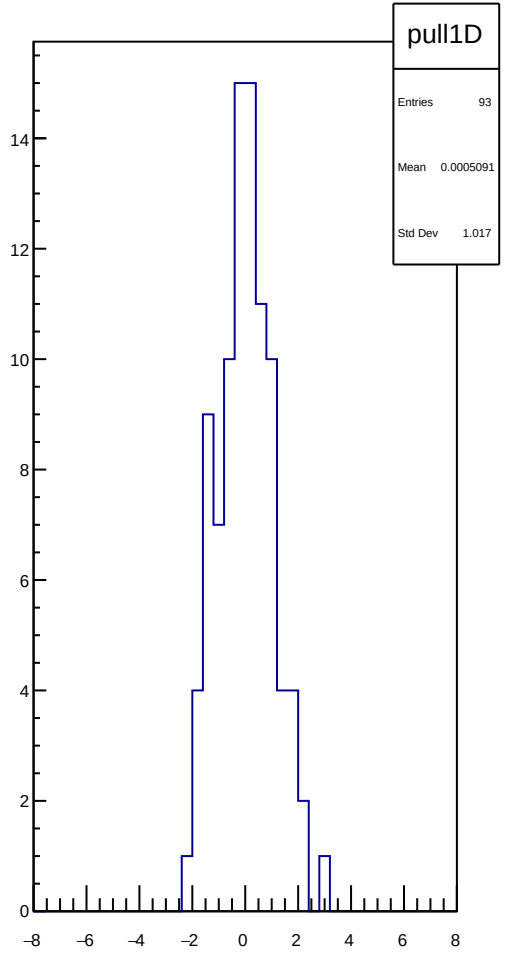

asym_sam5_dit_correction_mean vs run
χ² / ndf 96.16 / 92
p0 −569.8 ± 898.6
pull
Entries 93
Mean −3046
Std Dev 0
pull1D
Entries 93
Mean 0.0005091
Std Dev 1.017

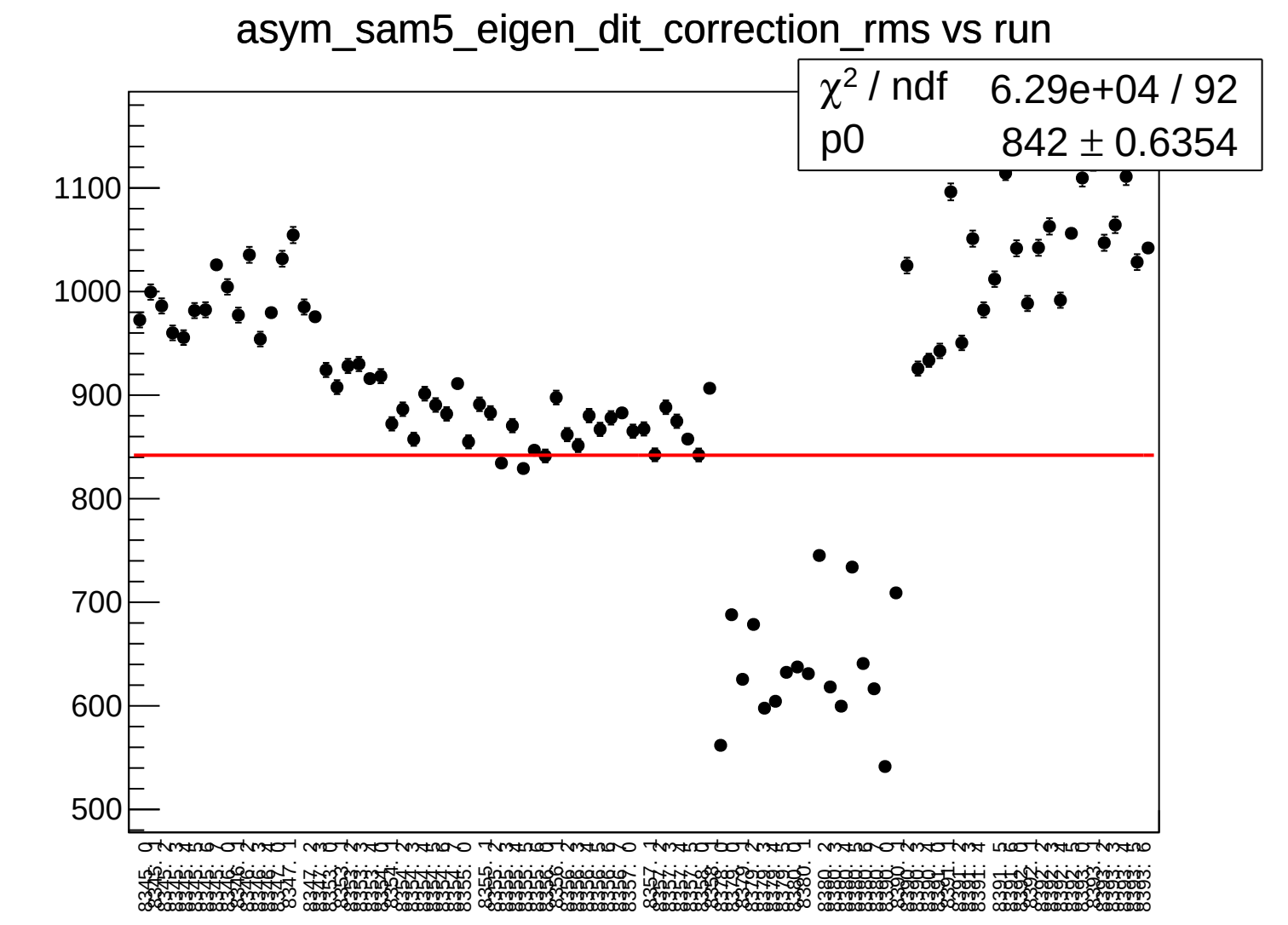

asym_sam5_dit_correction_rms vs run
χ² / ndf 6.29e+04 / 92
p0 842 ± 0.6354
1100
1000
900
800
700
600
500

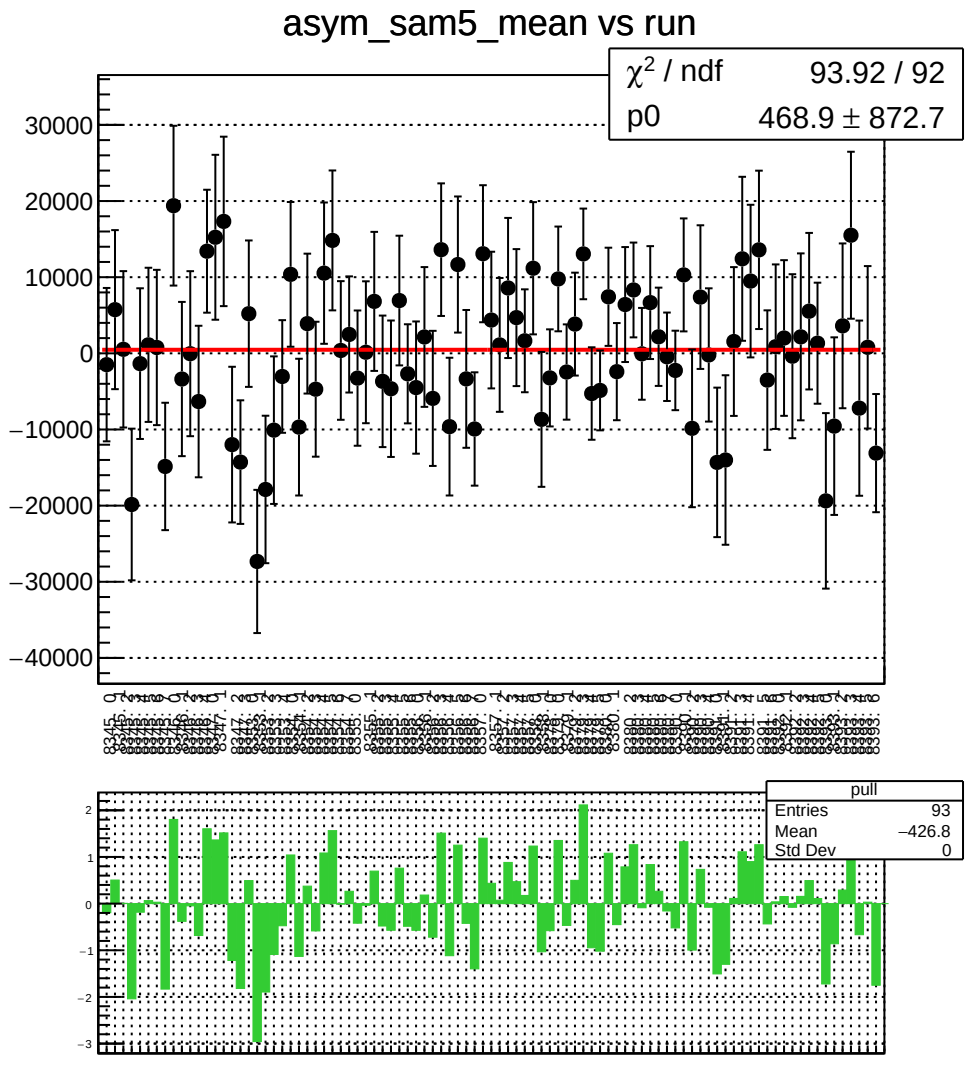

eigen_dit_asym_sam5_mean vs run
χ² / ndf 92.51 / 92
p0 −130.7 ± 150
pull
Entries 93
Mean −108
Std Dev 0
pull1D
Entries 93
Mean −0.008701
Std Dev 0.9973

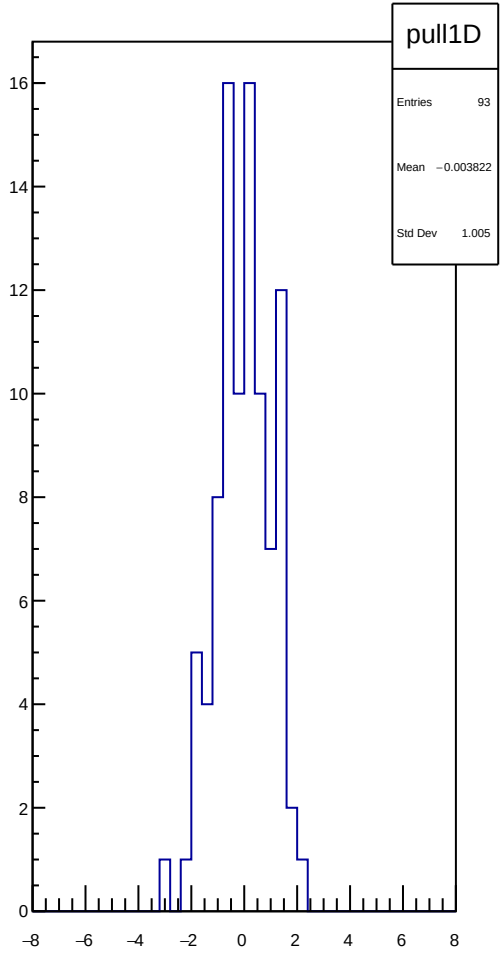

eigen_dit_asym_sam5_rms vs run
χ² / ndf 1033 / 92
p0 143 ± 0.1061
165
160
155
150
145
140
135

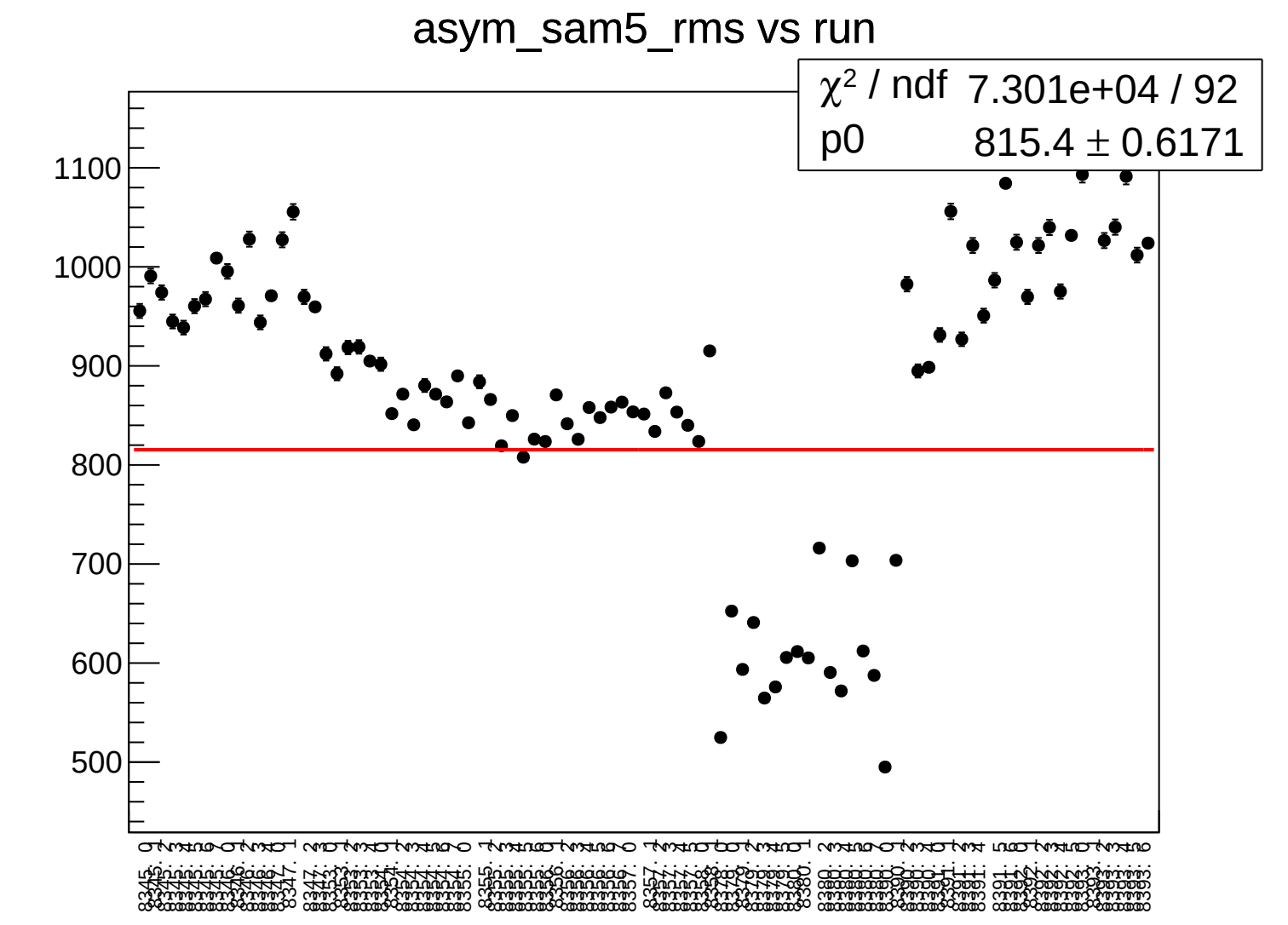

asym_sam5_eigen_dit_correction_mean vs run
χ² / ndf 96.16 / 92
p0 −569.8 ± 898.6
pull
Entries 93
Mean −3046
Std Dev 0

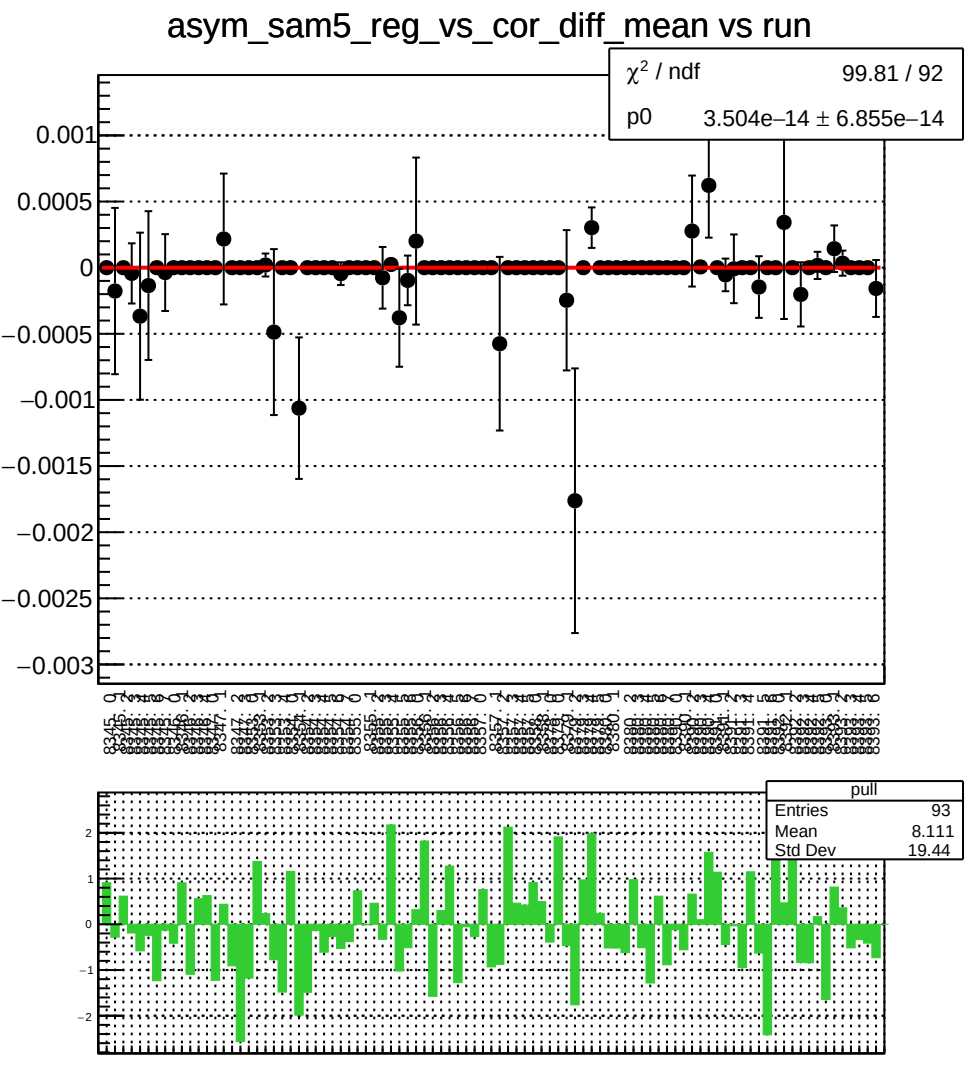

pull1D
Entries 93
Mean 0.0005091
Std Dev 1.017

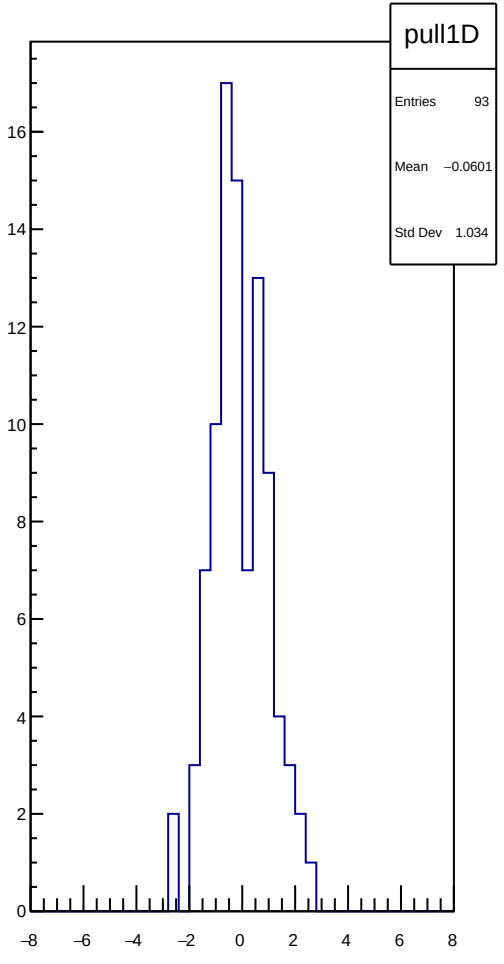

asym_sam5_eigen_dit_correction_rms vs run
χ² / ndf 6.29e+04 / 92
p0 842 ± 0.6354
1100
1000
900
800
700
600
500

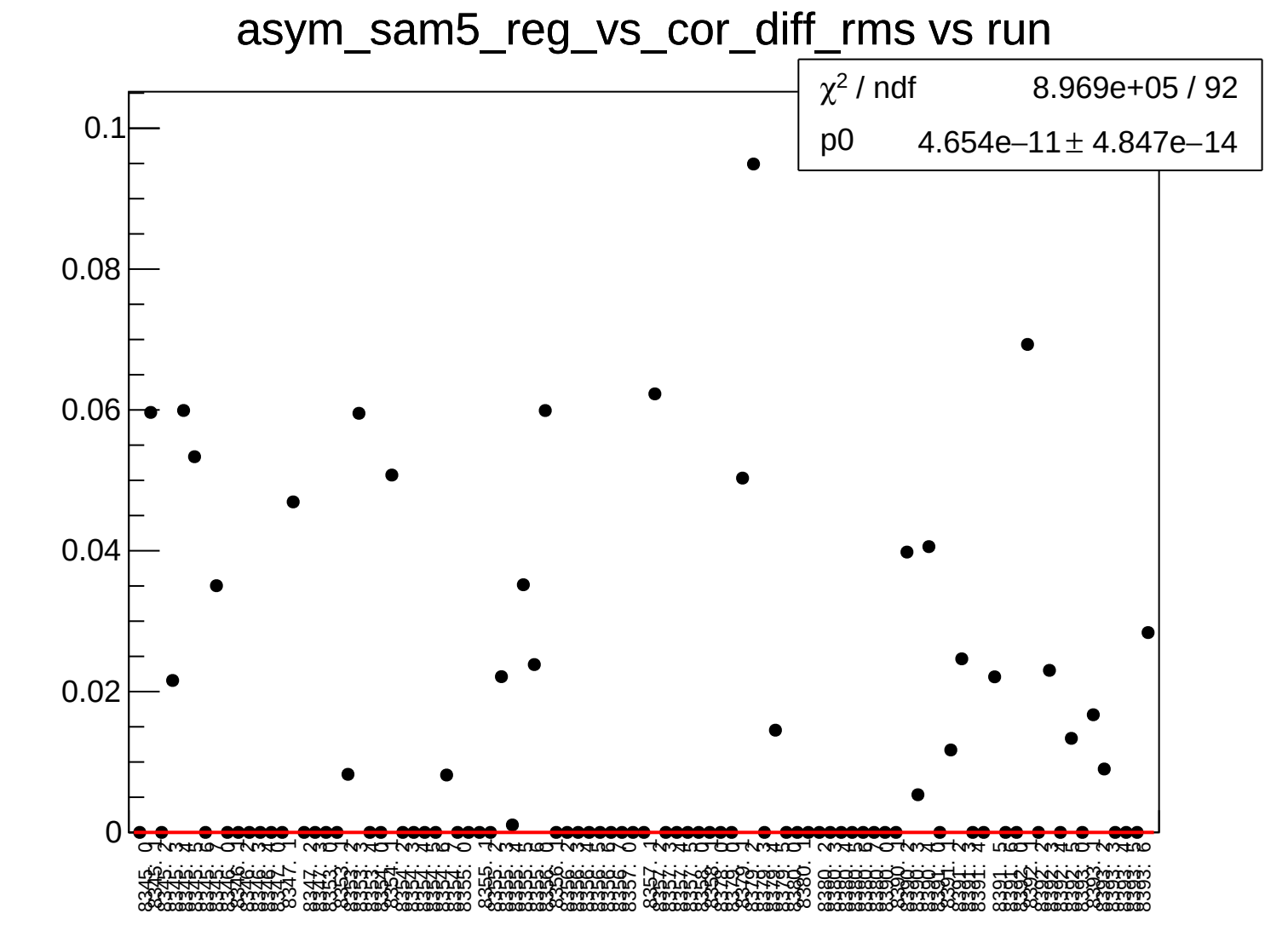

asym_sam5_mean vs run
χ² / ndf 93.92 / 92
p0 468.9 ± 872.7
pull
Entries 93
Mean −426.8
Std Dev 0

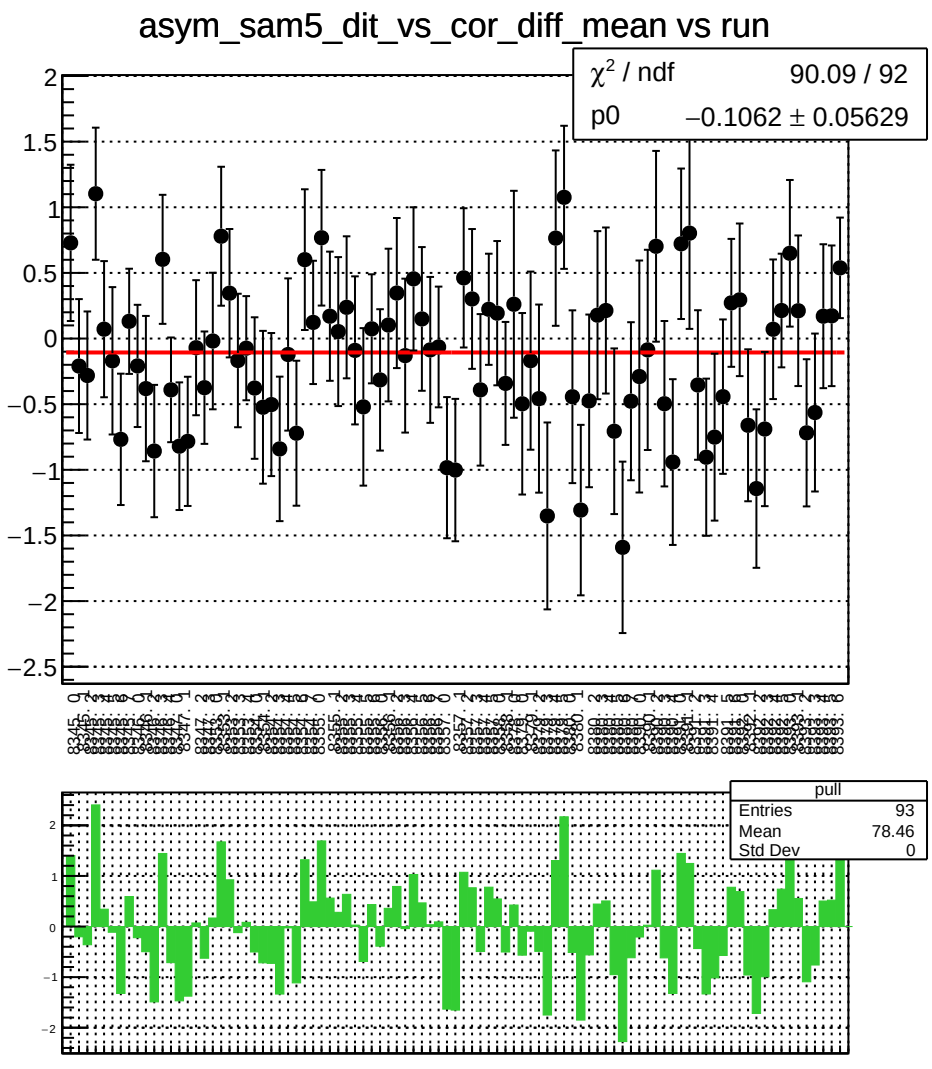

pull1D
Entries 93
Mean −0.003822
Std Dev 1.005

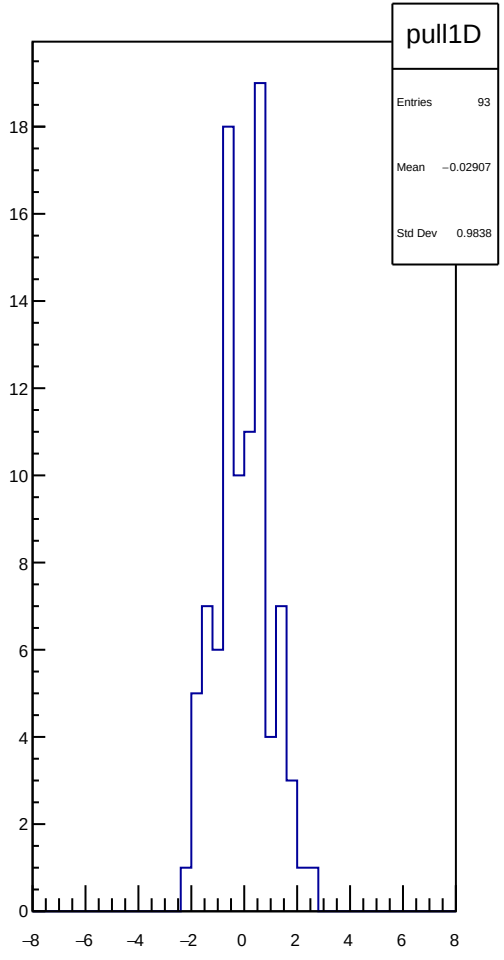

asym_sam5_rms vs run
χ² / ndf 7.301e+04 / 92
p0 815.4 ± 0.6171
1100
1000
900
800
700
600
500

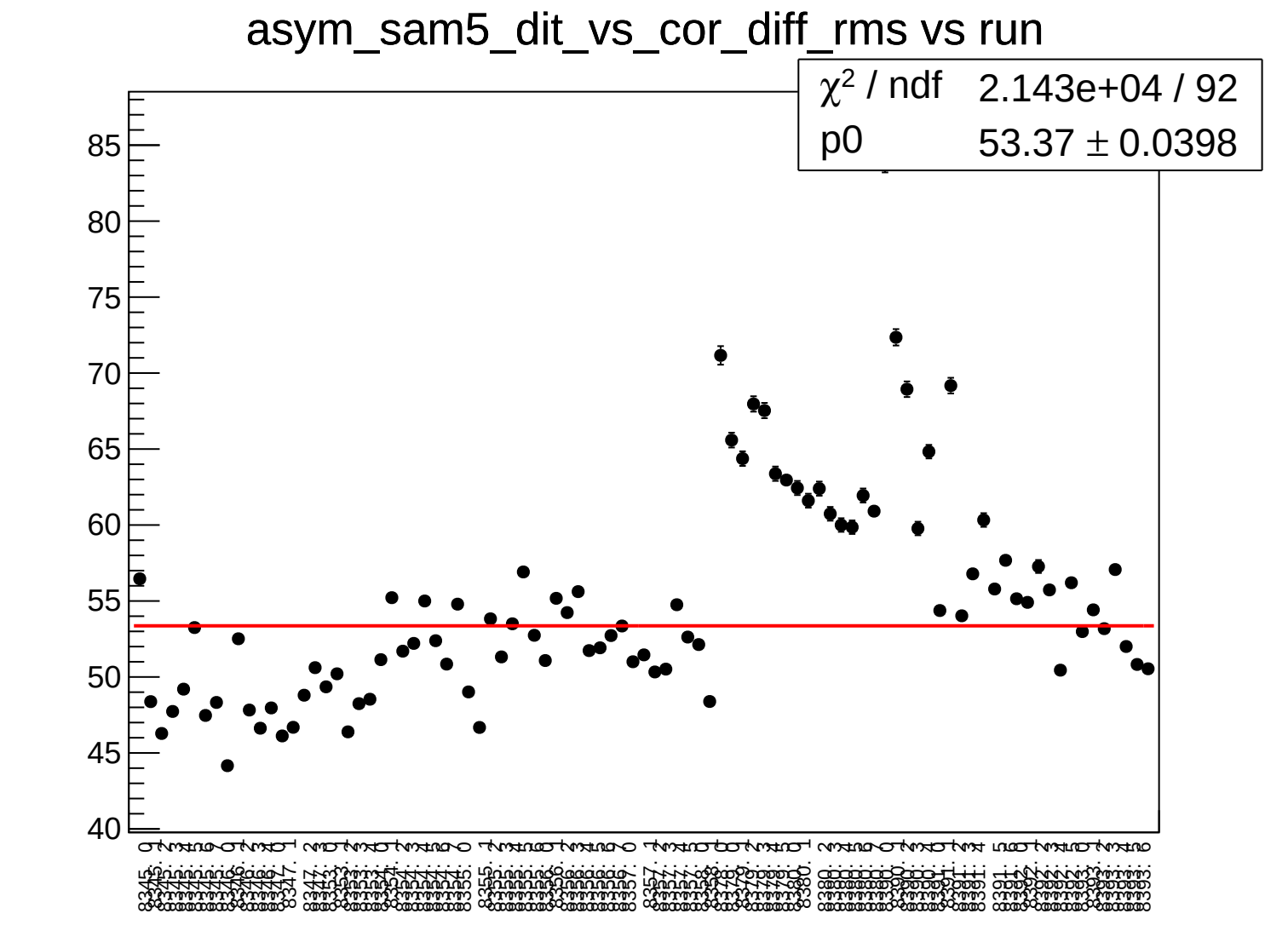

asym_sam5_reg_vs_cor_diff_mean vs run
χ² / ndf 99.81 / 92
p0 3.504e−14 ± 6.855e−14
pull
Entries 93
Mean 8.111
Std Dev 19.44

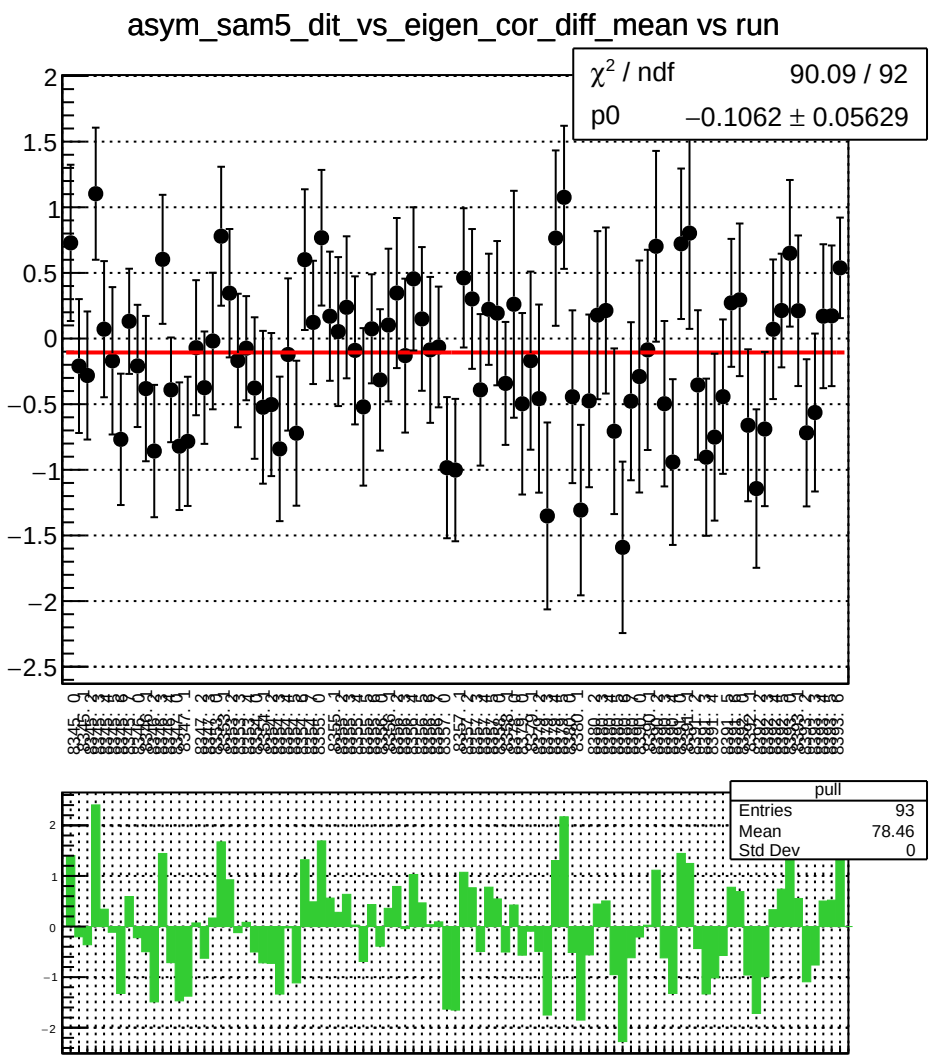

pull1D
Entries 93
Mean −0.0601
Std Dev 1.034

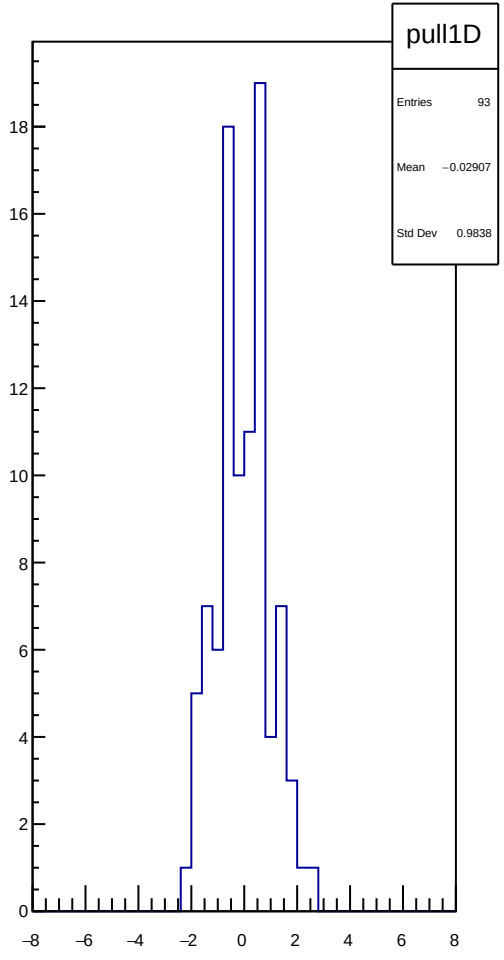

asym_sam5_reg_vs_cor_diff_rms vs run
χ² / ndf 8.969e+05 / 92
p0 4.654e−11 ± 4.847e−14
0.1
0.08
0.06
0.04
0.02
0

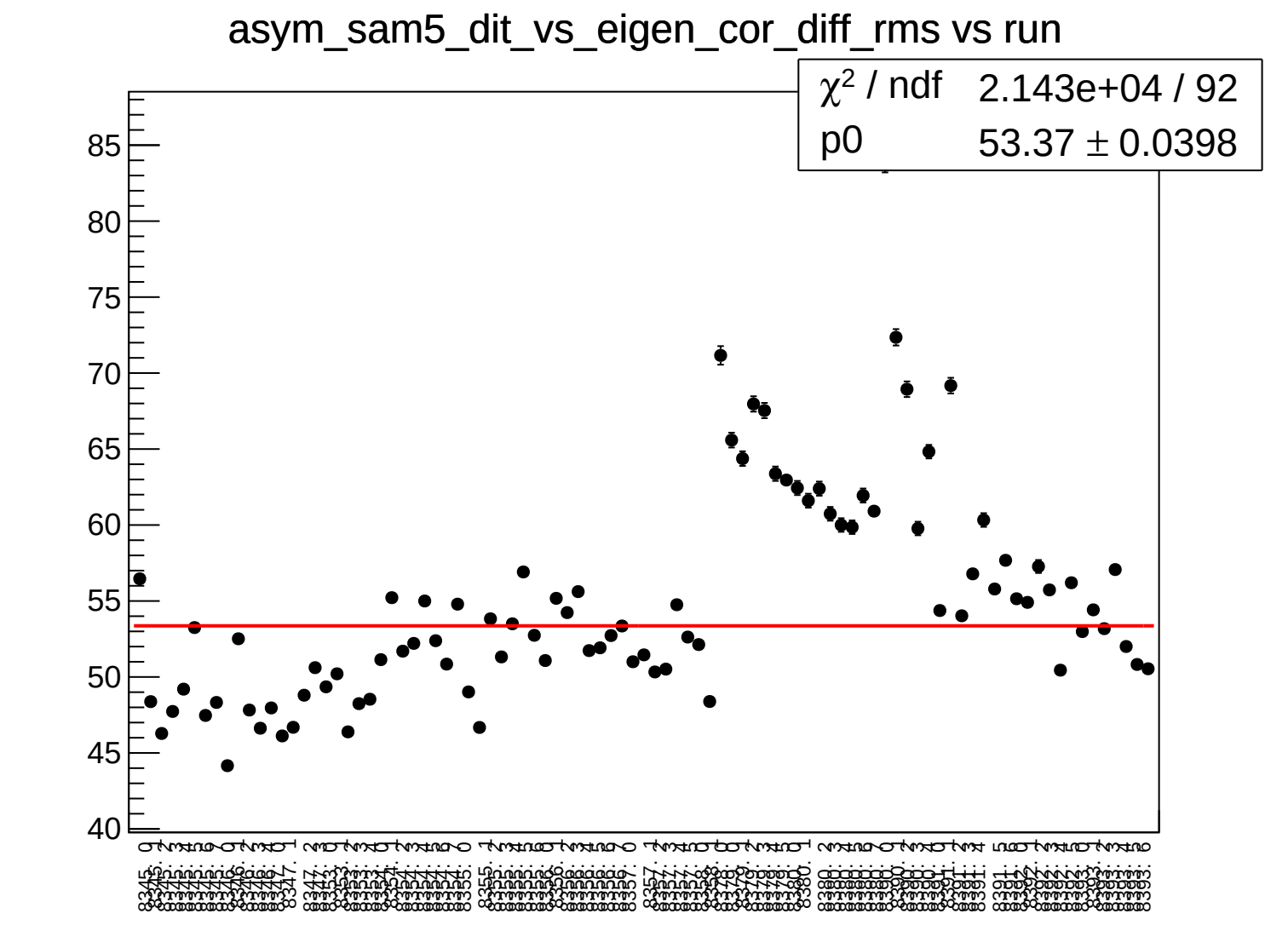

asym_sam5_dit_vs_cor_diff_mean vs run
χ² / ndf 90.09 / 92
p0 −0.1062 ± 0.05629
pull
Entries 93
Mean 78.46
Std Dev 0

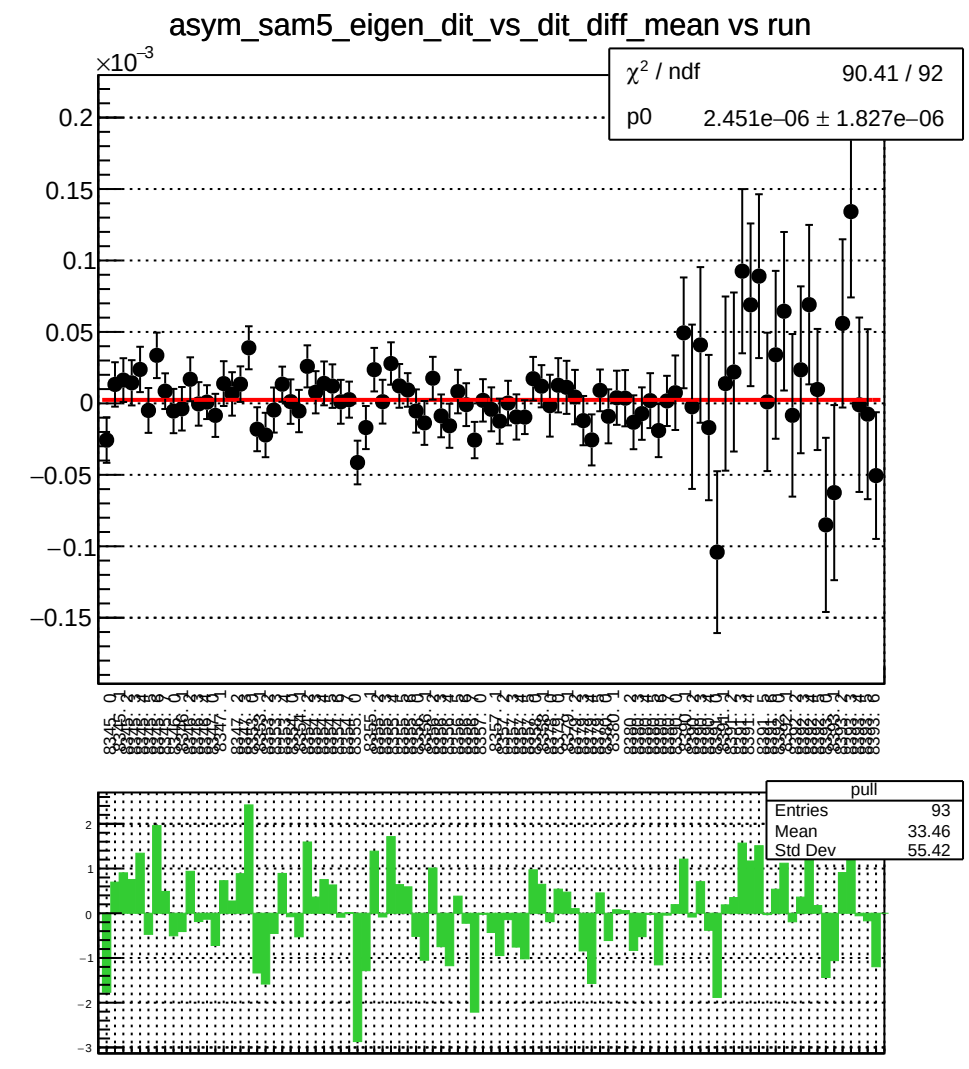

pull1D
Entries 93
Mean −0.02907
Std Dev 0.9838

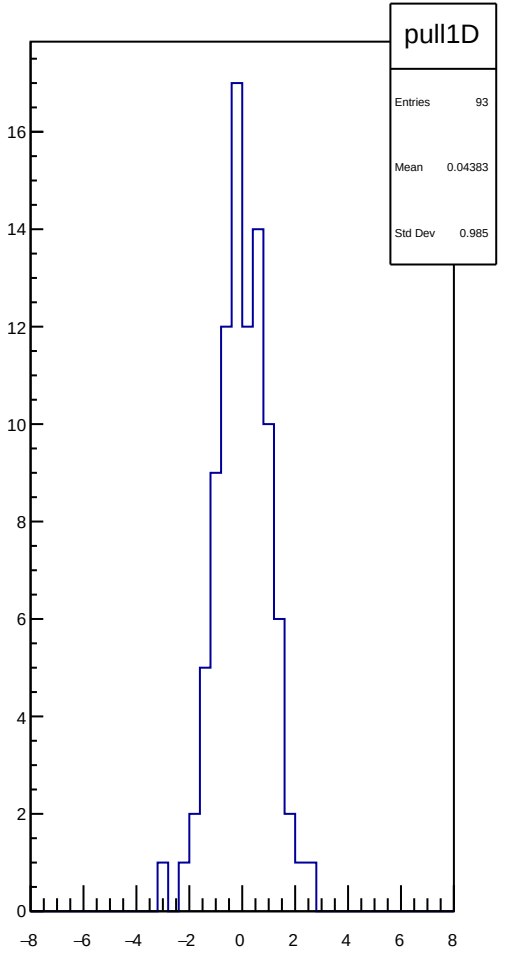

asym_sam5_dit_vs_cor_diff_rms vs run
χ² / ndf 2.143e+04 / 92
p0 53.37 ± 0.0398
85
80
75
70
65
60
55
50
45
40

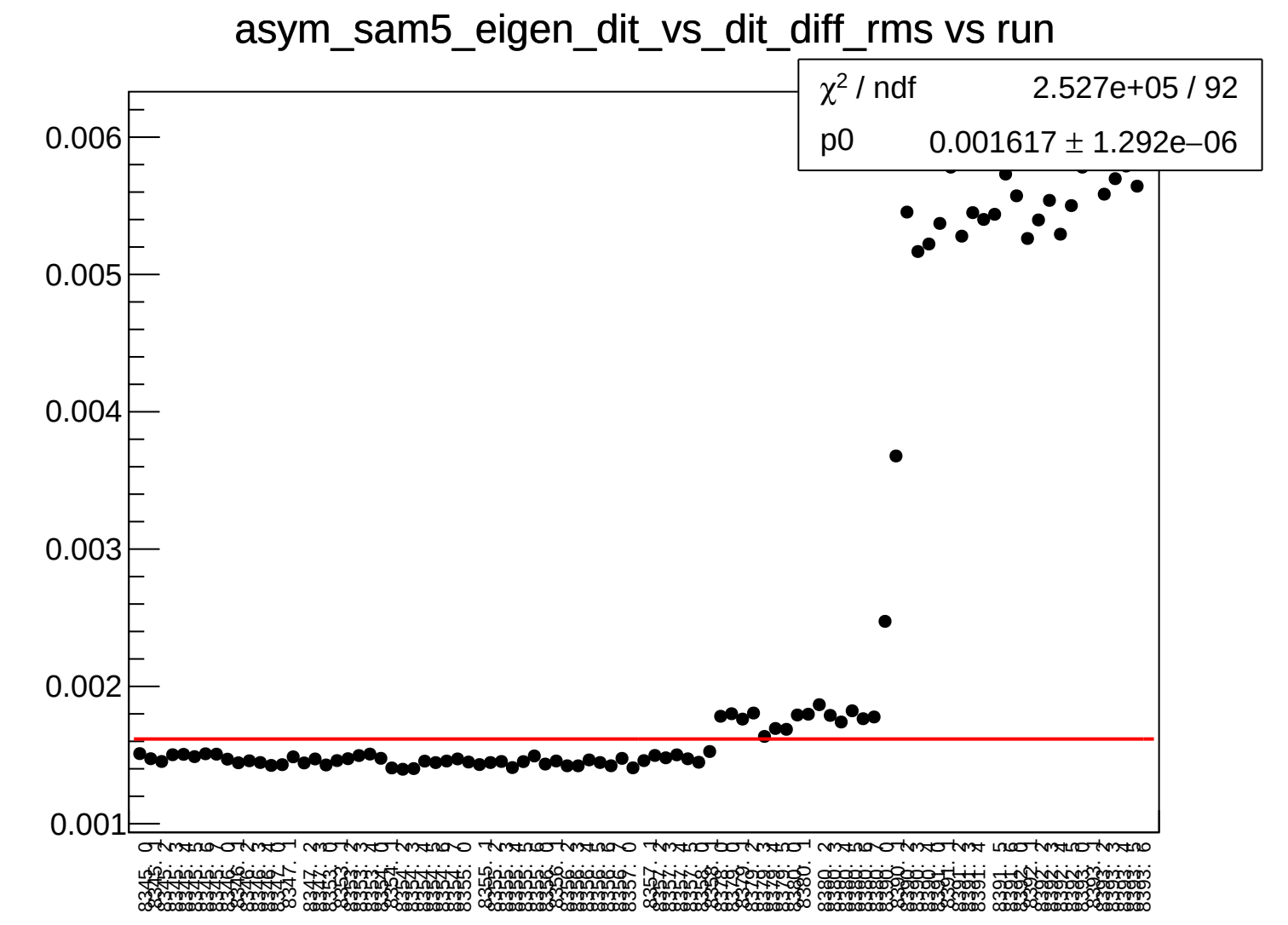

asym_sam5_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.09 / 92
p0 −0.1062 ± 0.05629
pull
Entries 93
Mean 78.46
Std Dev 0

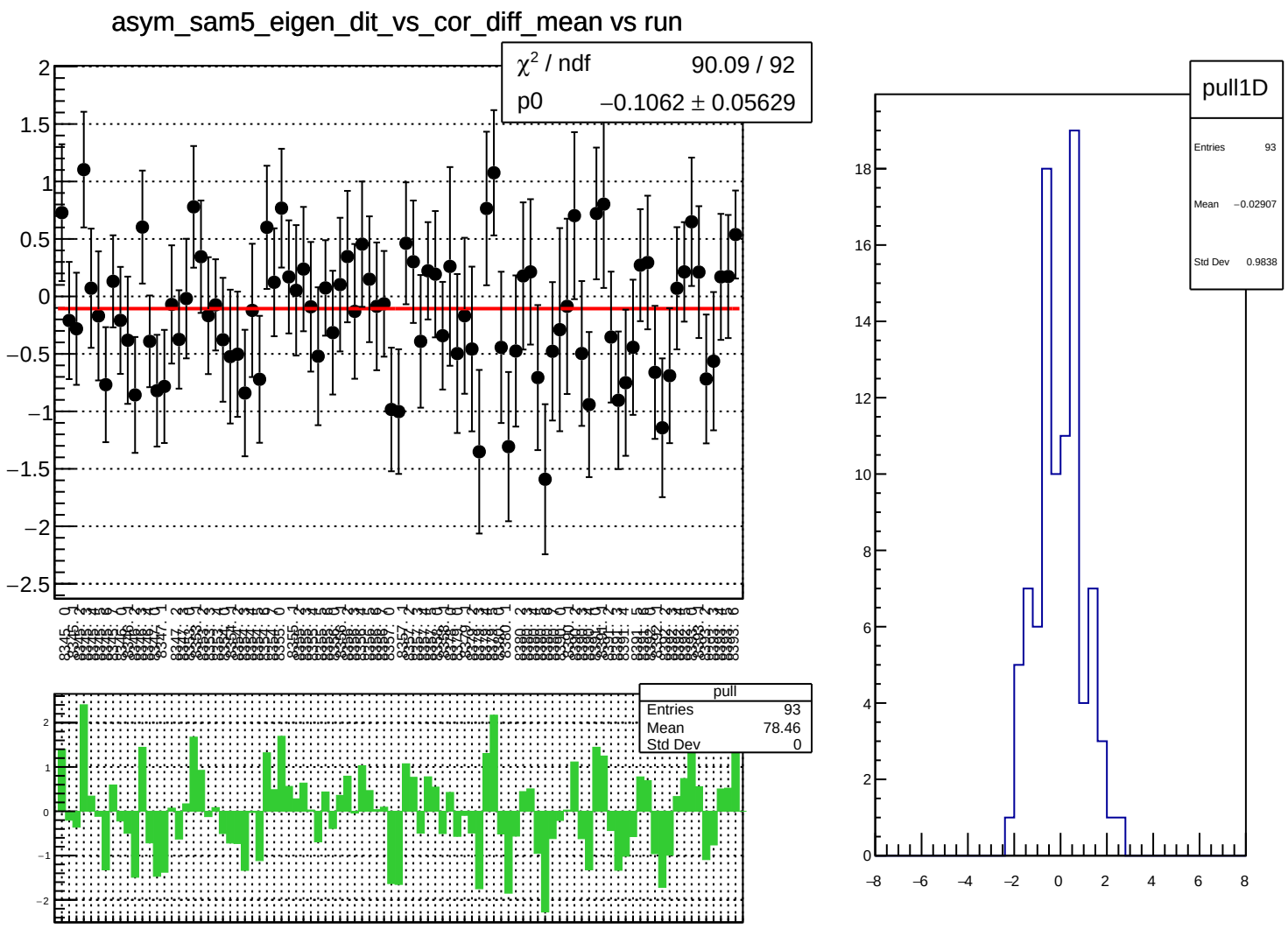

pull1D
Entries 93
Mean −0.02907
Std Dev 0.9838

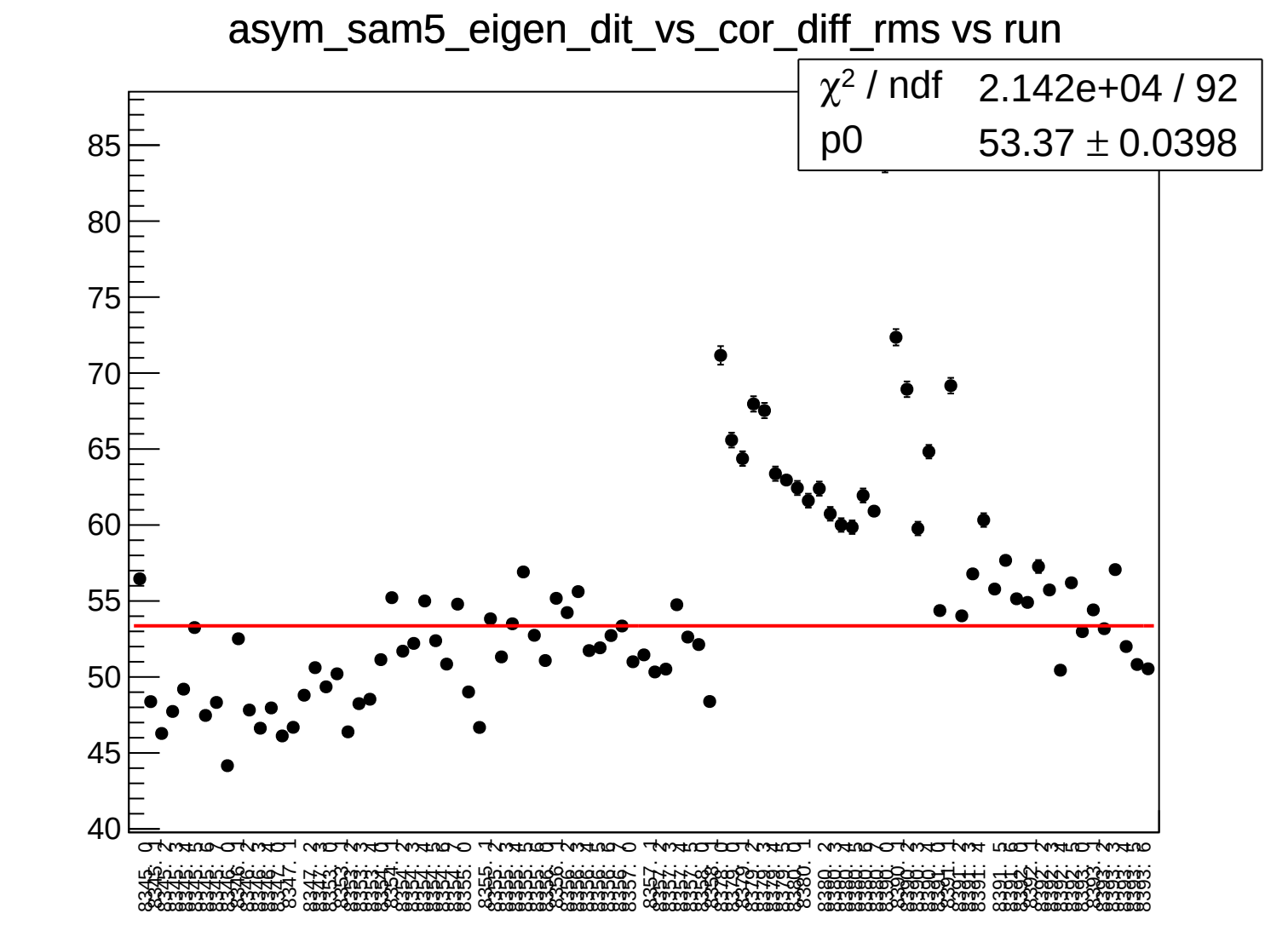

asym_sam5_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.143e+04 / 92
p0 53.37 ± 0.0398
85
80
75
70
65
60
55
50
45
40

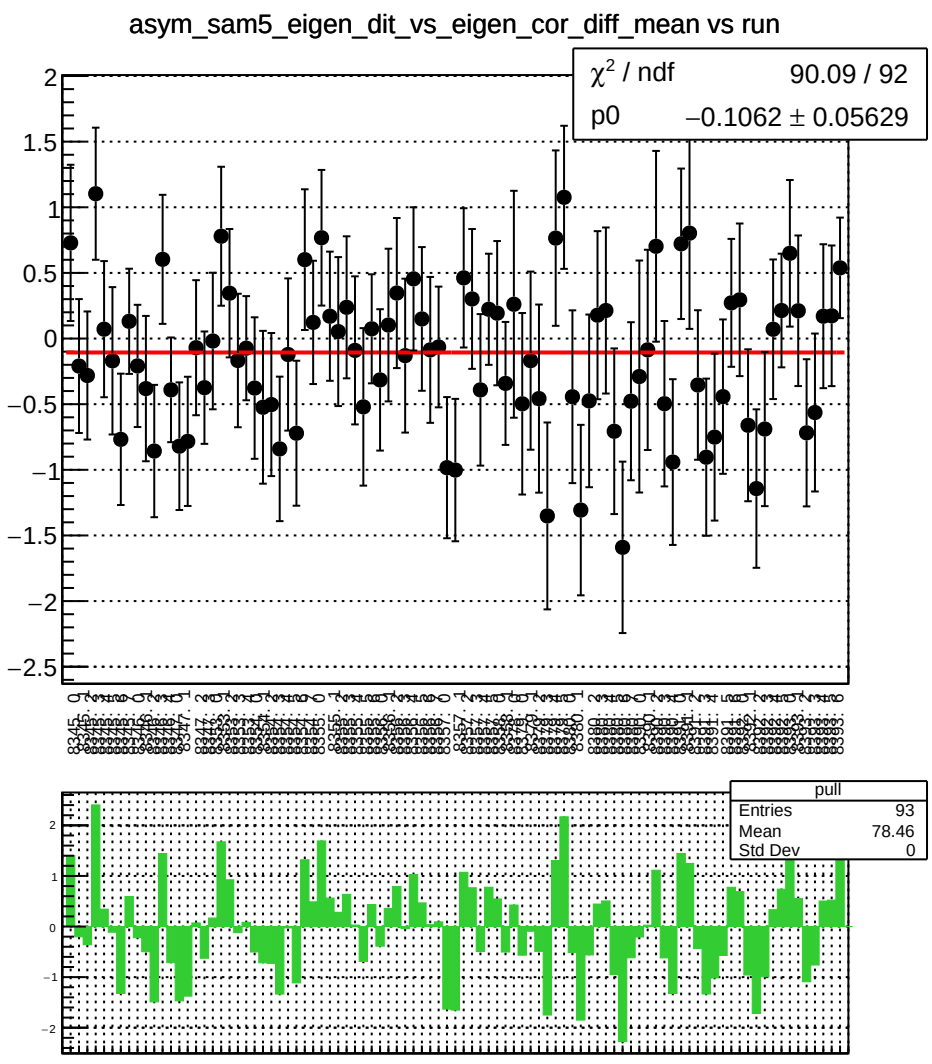

asym_sam5_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 90.41 / 92
p0 2.451e−06 ± 1.827e−06
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 93
Mean 33.46
Std Dev 55.42
2
1
0
−1
−2
−3

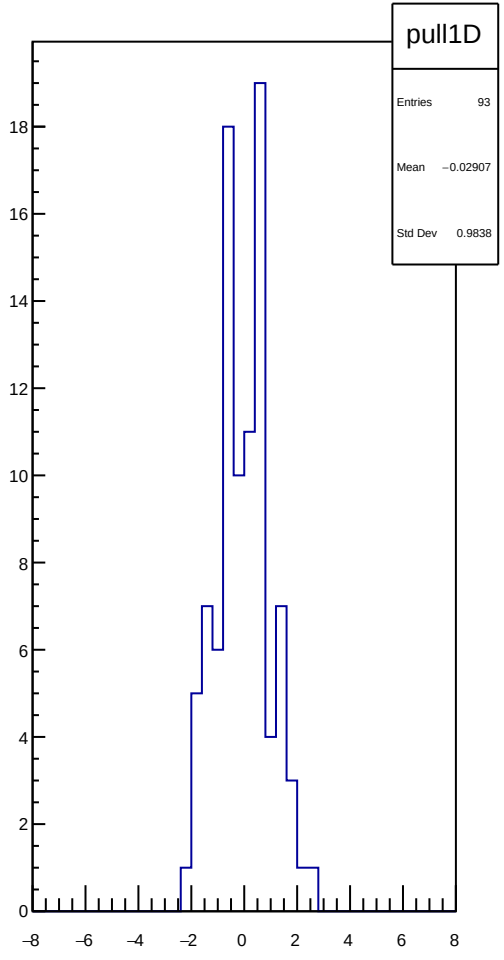

pull1D
Entries 93
Mean 0.04383
Std Dev 0.985
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

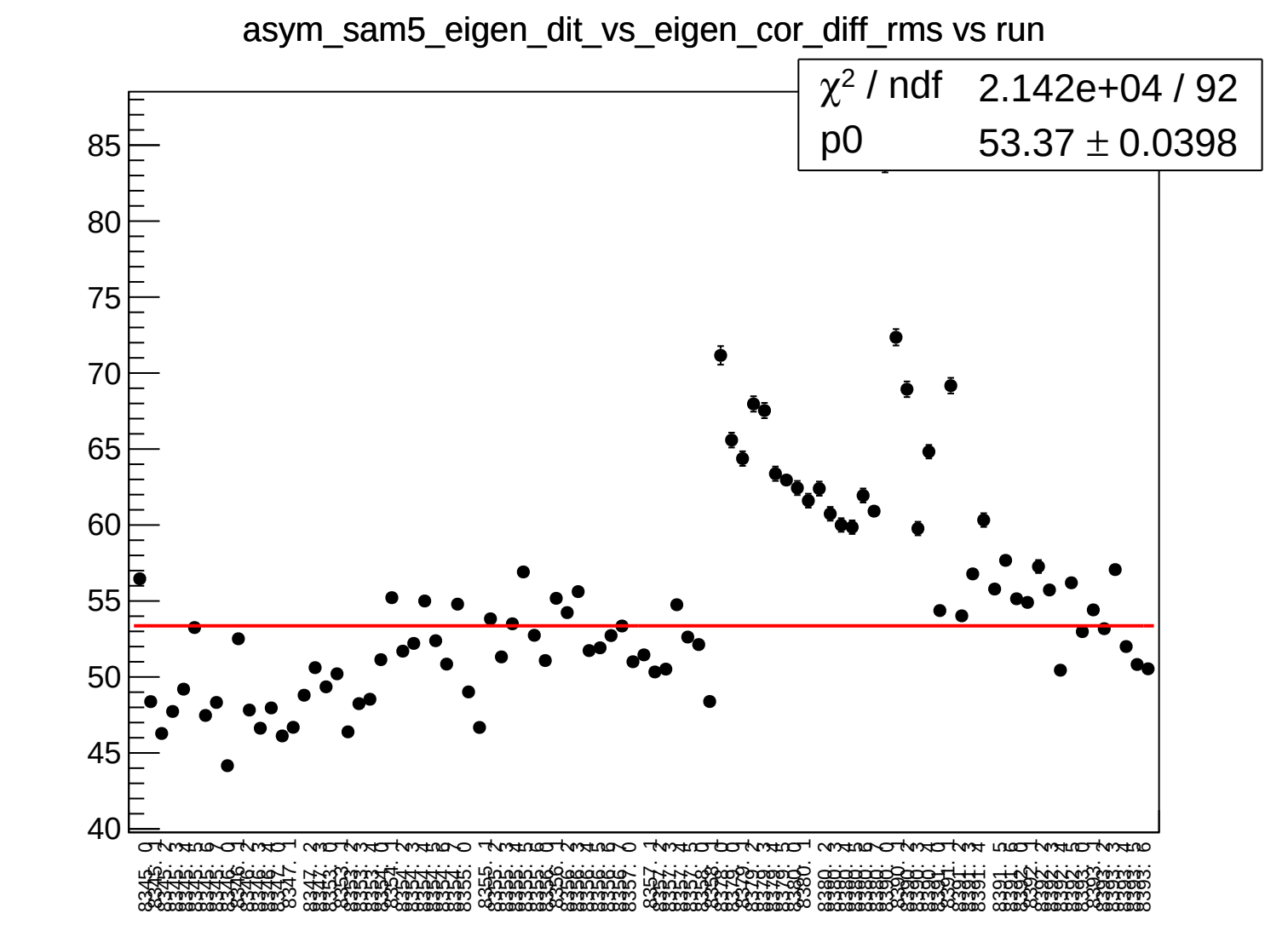

asym_sam5_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.527e+05 / 92
p0 0.001617 ± 1.292e−06
0.006
0.005
0.004
0.003
0.002
0.001

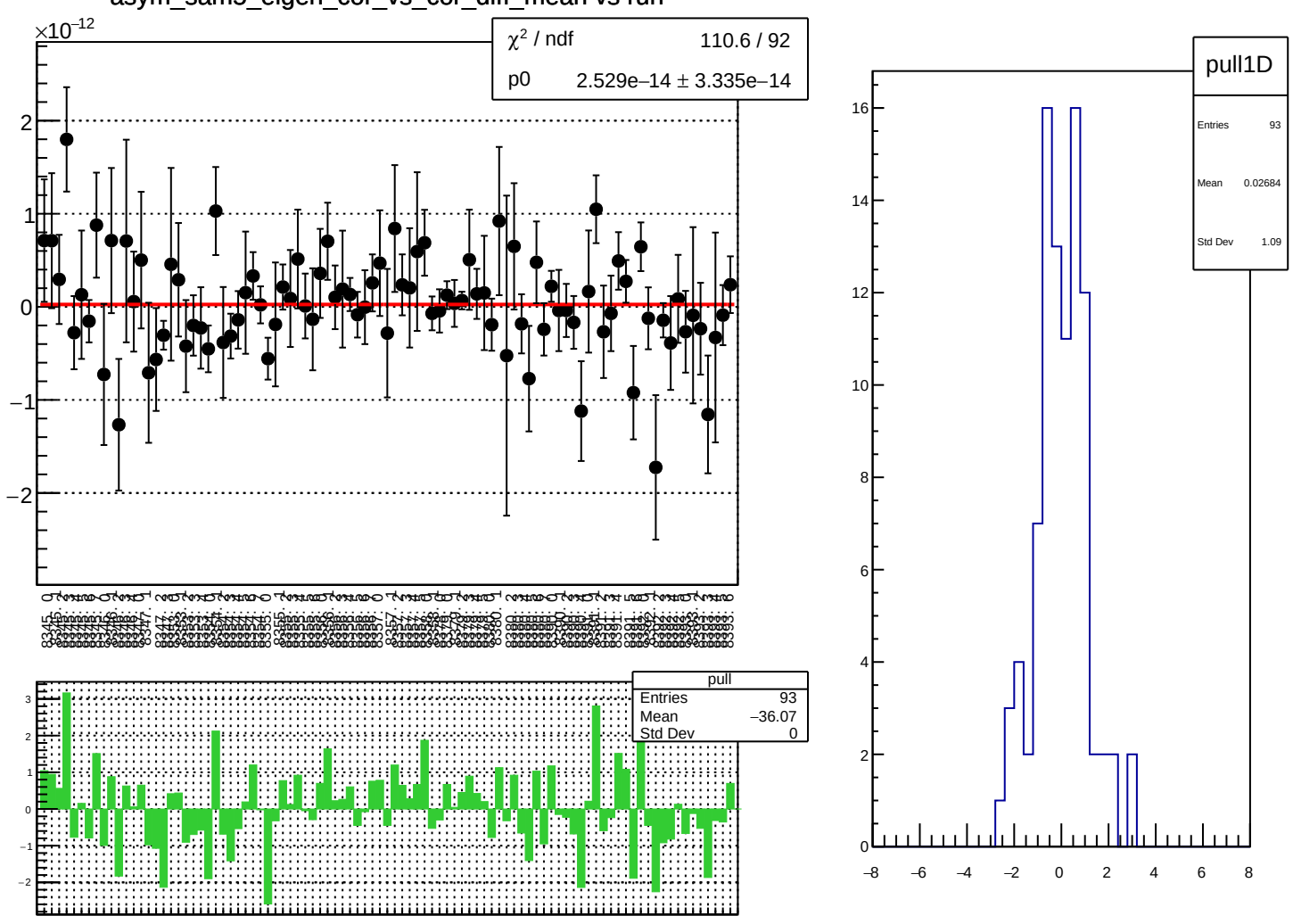

asym_sam5_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.09 / 92
p0 −0.1062 ± 0.05629
pull
Entries 93
Mean 78.46
Std Dev 0
pull1D
Entries 93
Mean −0.02907
Std Dev 0.9838

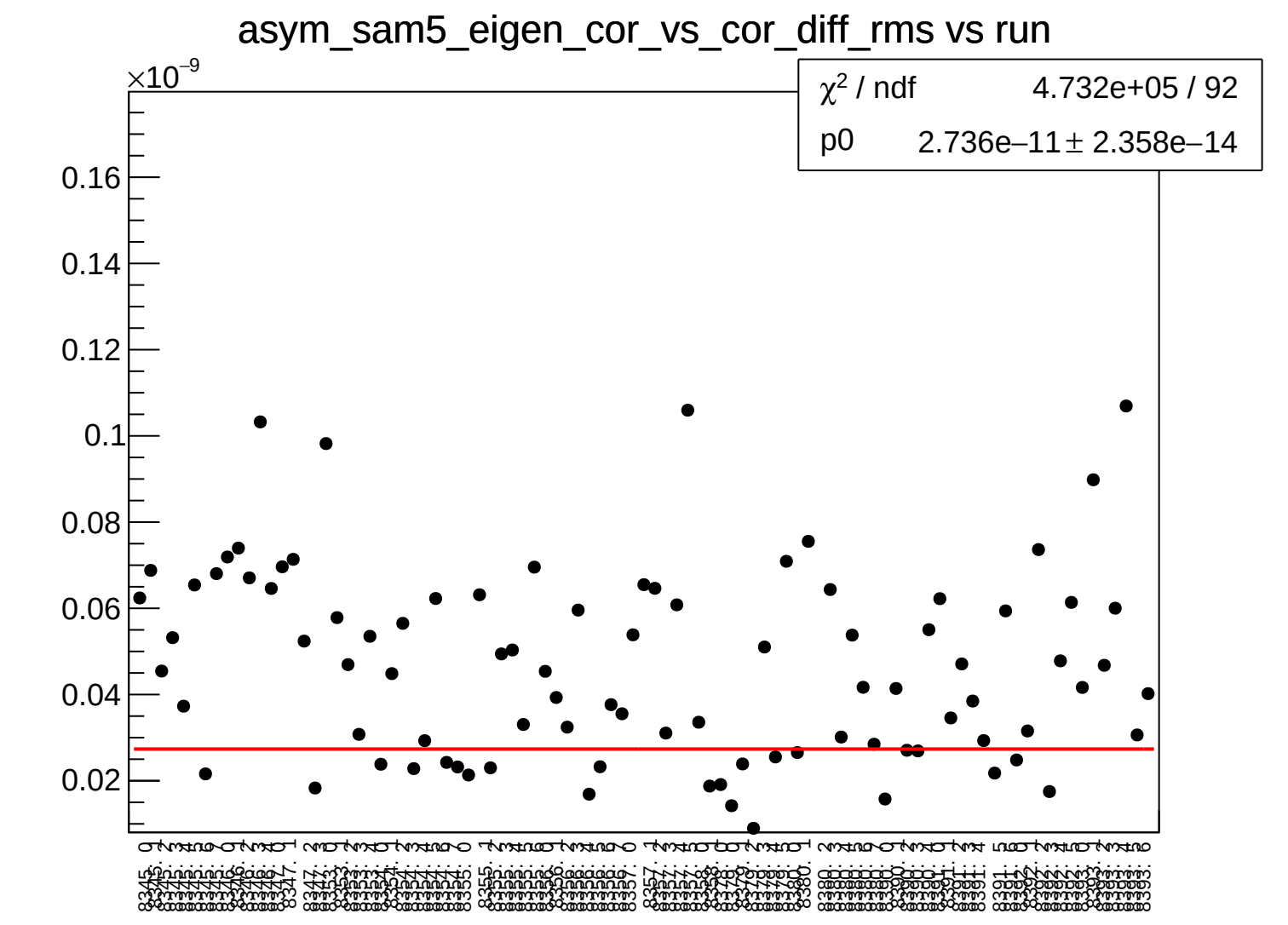

asym_sam5_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.142e+04 / 92
p0 53.37 ± 0.0398
85
80
75
70
65
60
55
50
45
40

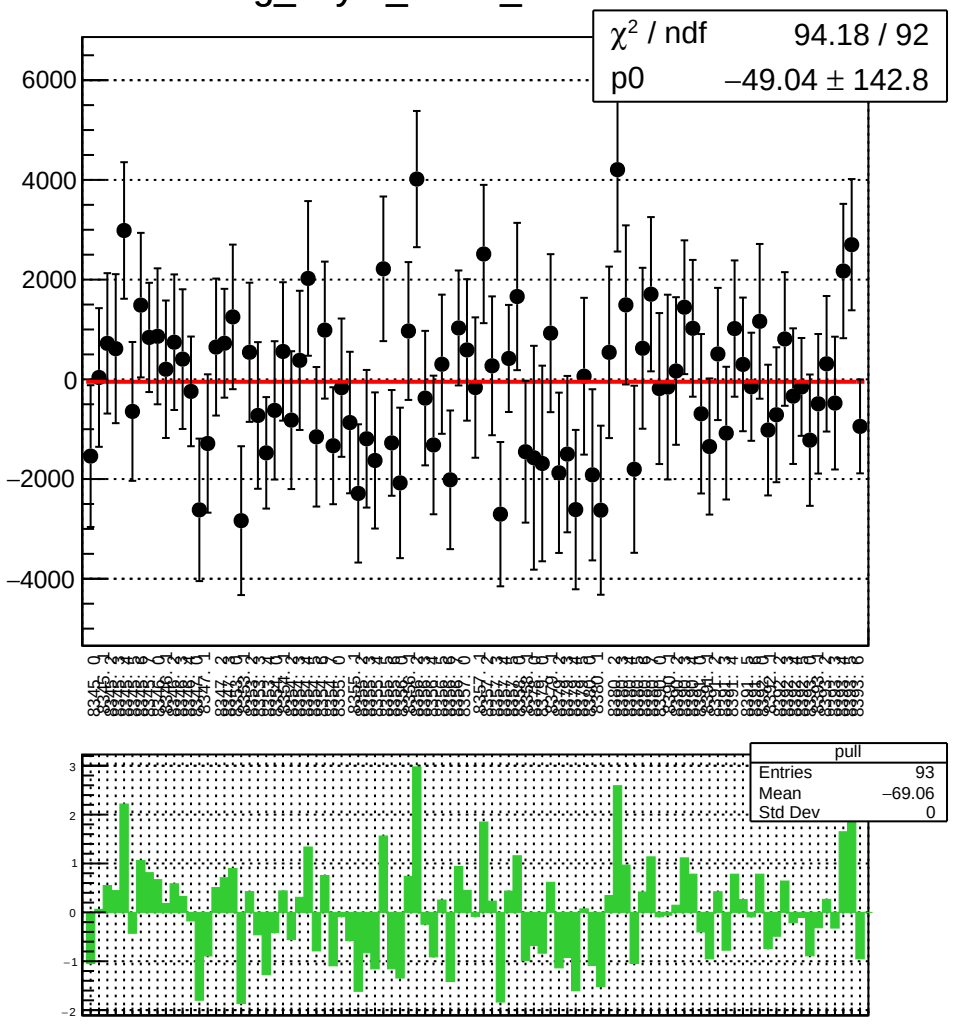

asym_sam5_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.09 / 92
p0 −0.1062 ± 0.05629
pull
Entries 93
Mean 78.46
Std Dev 0

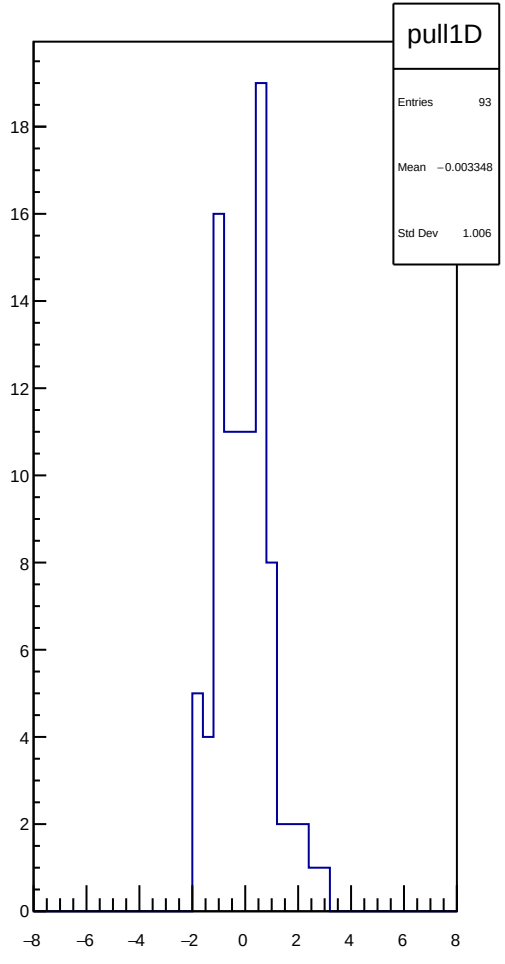

pull1D
Entries 93
Mean −0.02907
Std Dev 0.9838

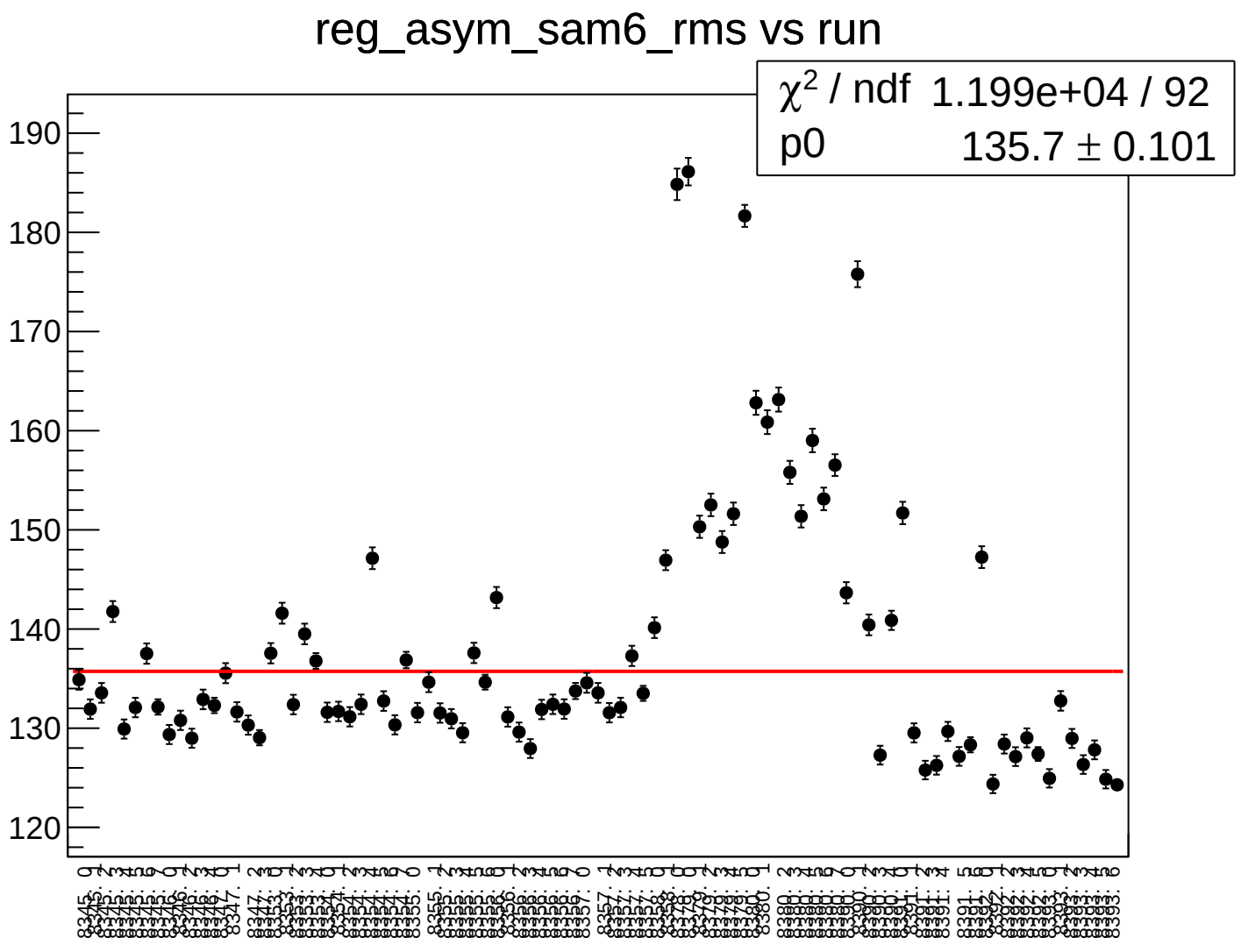

asym_sam5_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.142e+04 / 92
p0 53.37 ± 0.0398
85
80
75
70
65
60
55
50
45
40

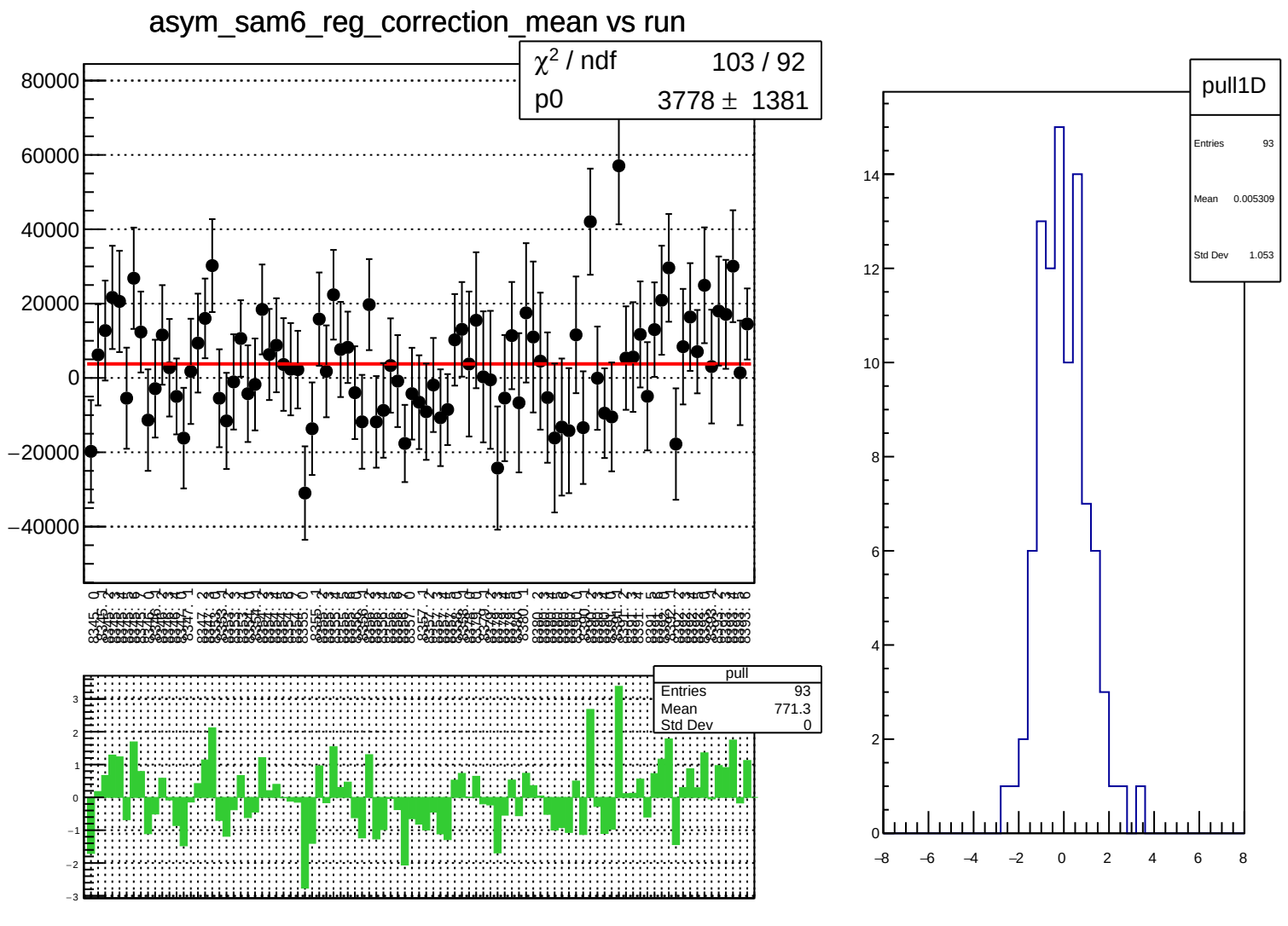

asym_sam5_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 110.6 / 92
p0 2.529e−14 ± 3.335e−14
pull
Entries 93
Mean −36.07
Std Dev 0
pull1D
Entries 93
Mean 0.02684
Std Dev 1.09

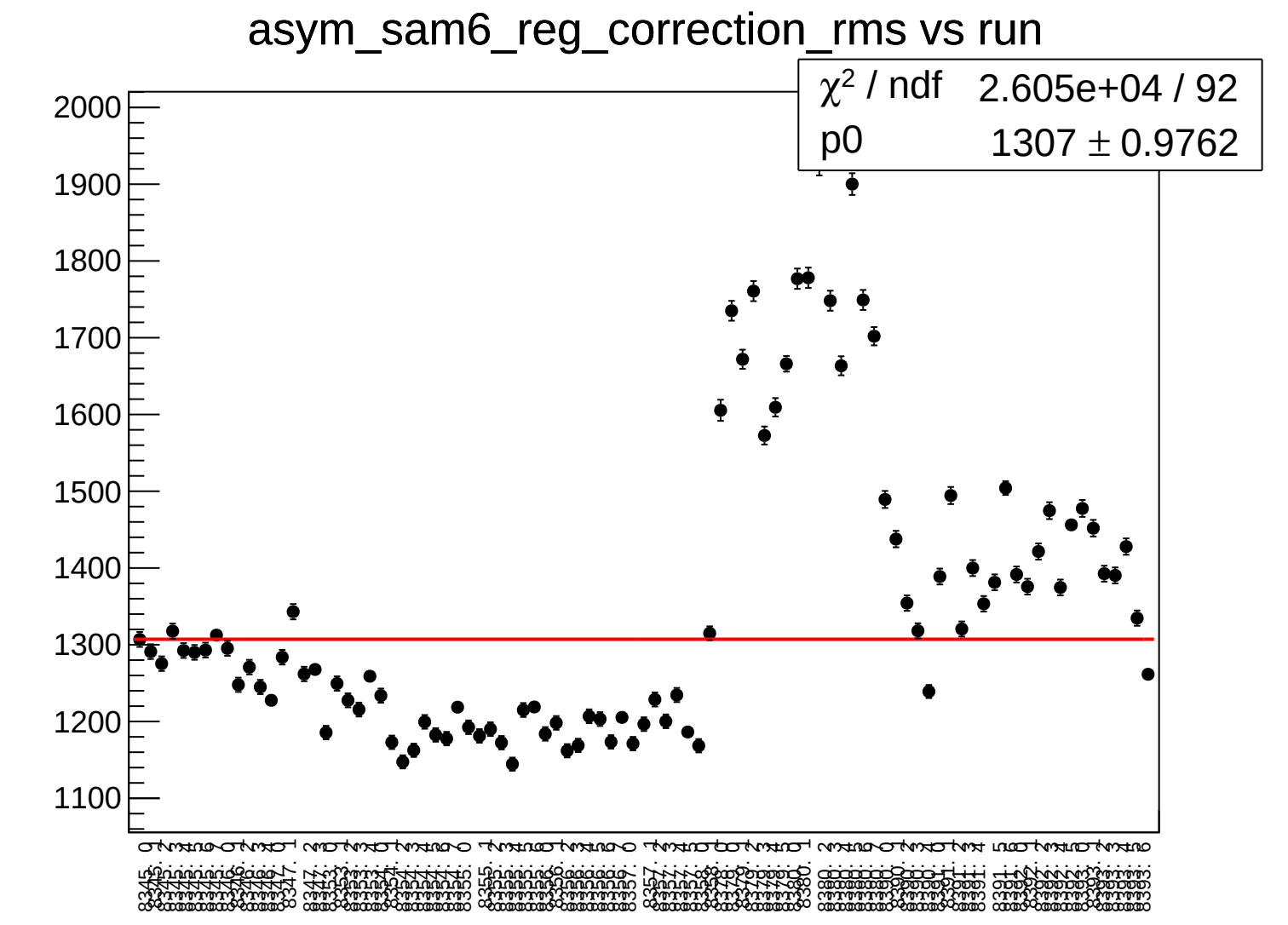

asym_sam5_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.732e+05 / 92
p0 2.736e−11 ± 2.358e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

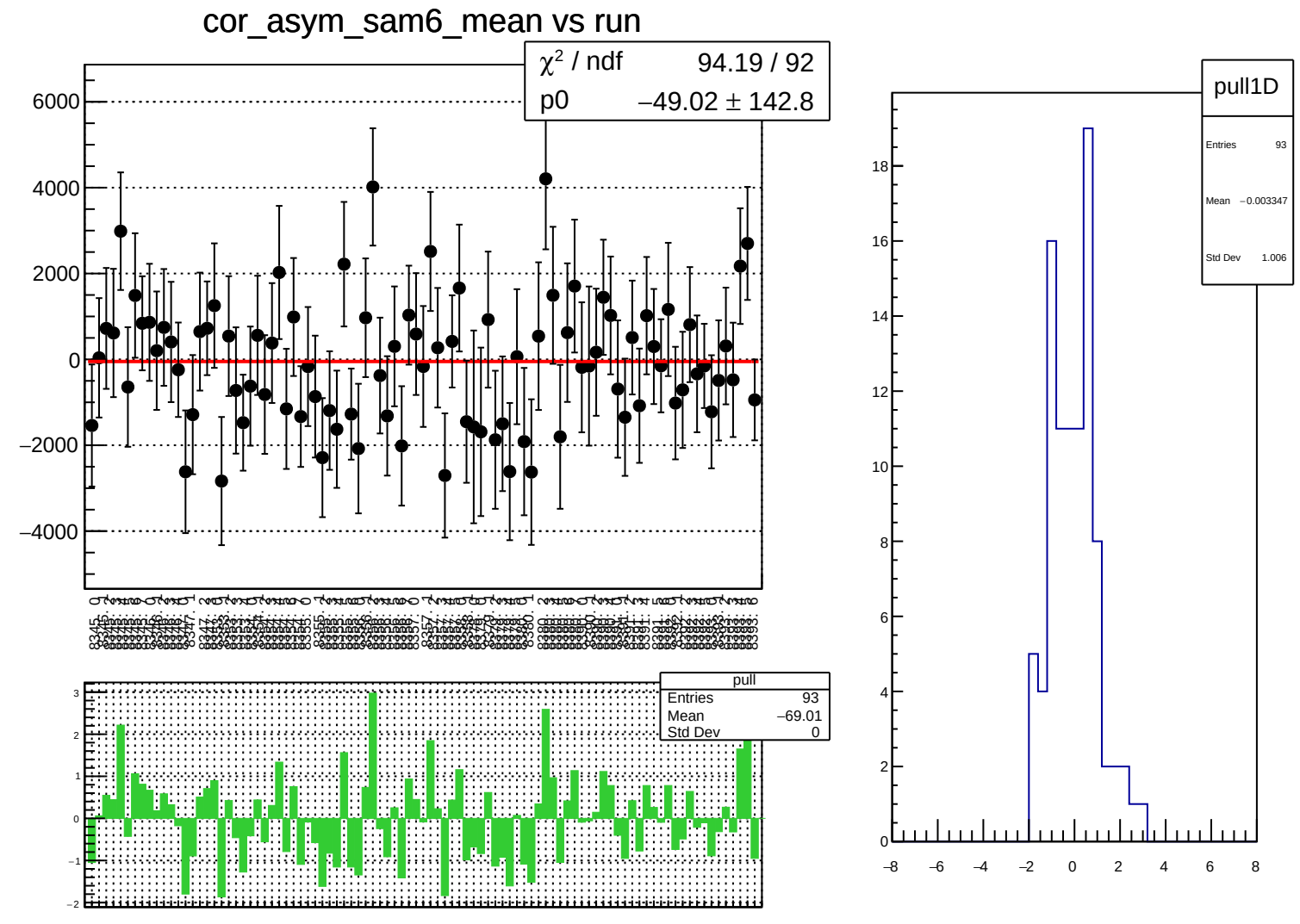

reg_asym_sam6_mean vs run
χ² / ndf 94.18 / 92
p0 −49.04 ± 142.8
6000
4000
2000
0
−2000
−4000
pull
Entries 93
Mean −69.06
Std Dev 0
3
2
1
0
−1
−2

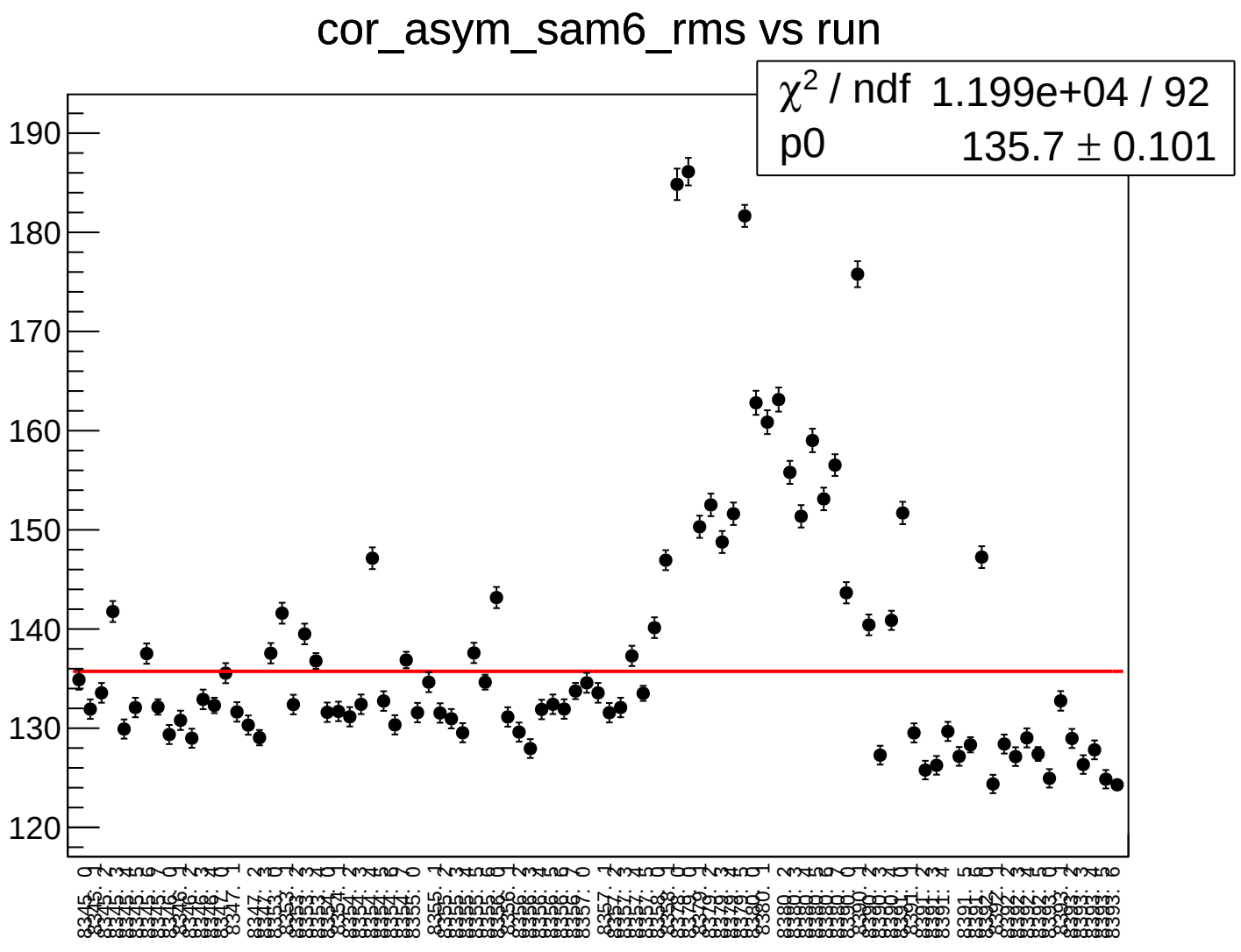

pull1D
Entries 93
Mean −0.003348
Std Dev 1.006
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

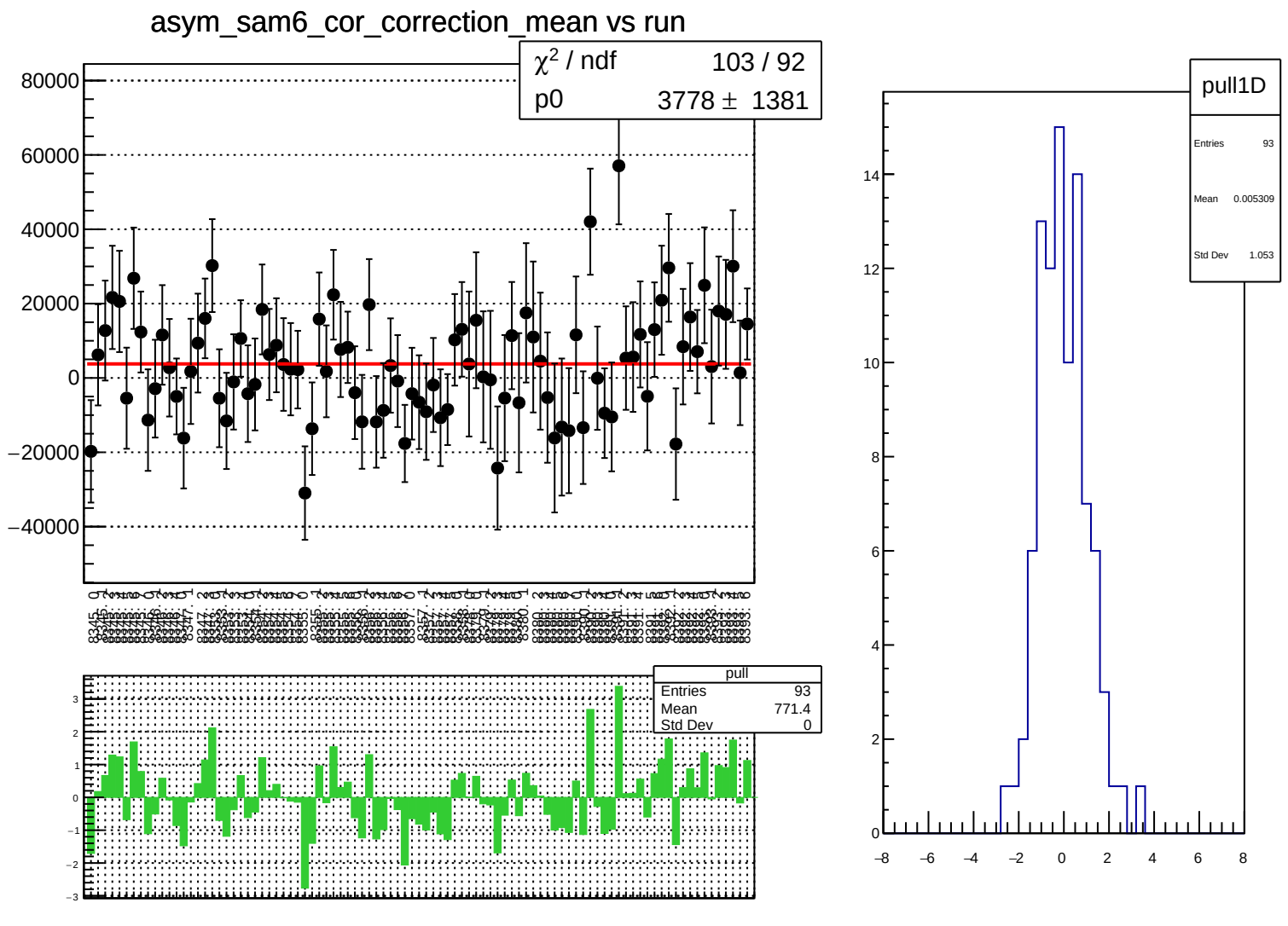

reg_asym_sam6_rms vs run
χ^2 / ndf 1.199e+04 / 92
p0 135.7 ± 0.101
190
180
170
160
150
140
130
120

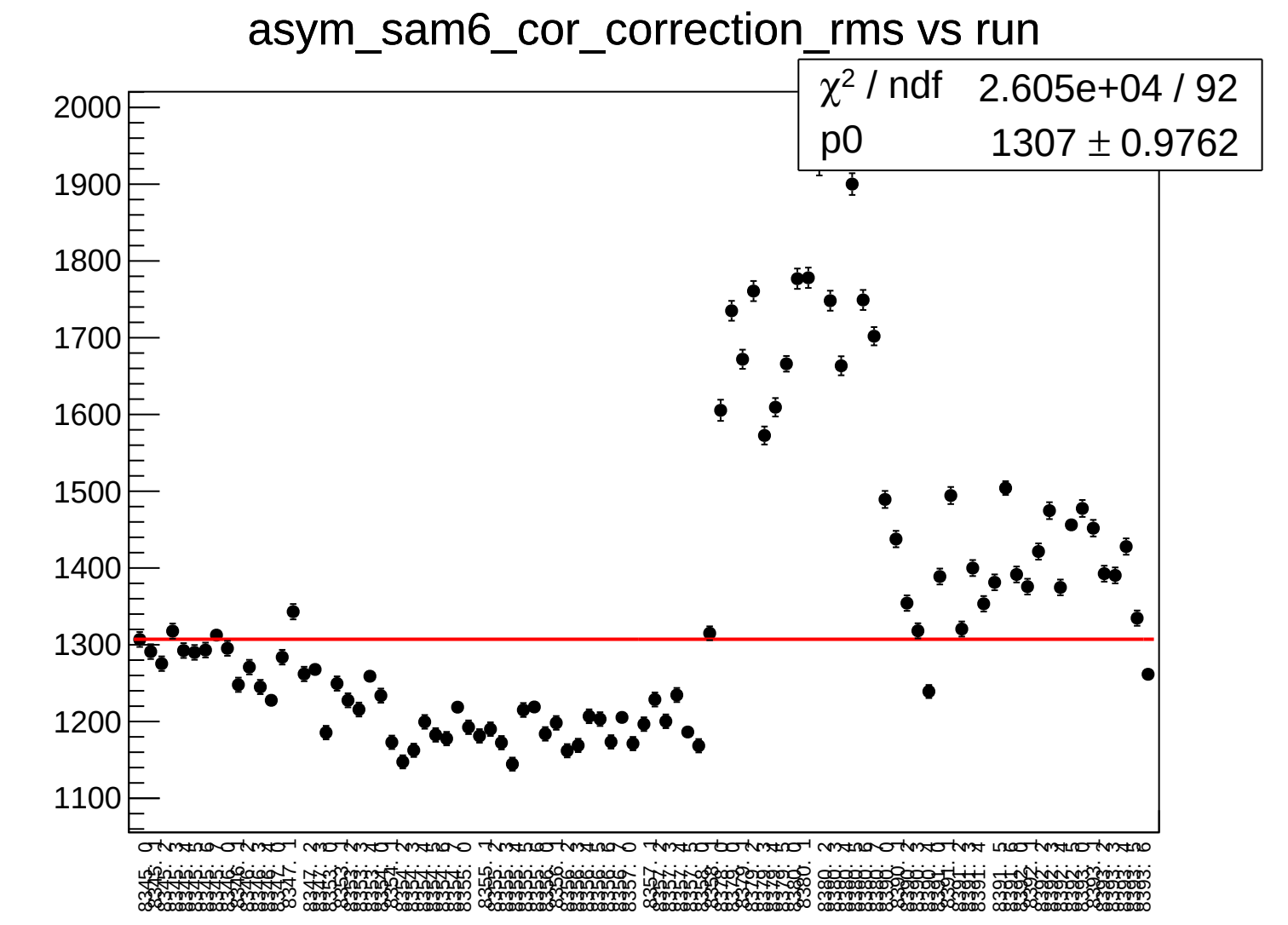

asym_sam6_reg_correction_mean vs run
χ² / ndf 103 / 92
p0 3778 ± 1381
80000
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 771.3
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.005309
Std Dev 1.053
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

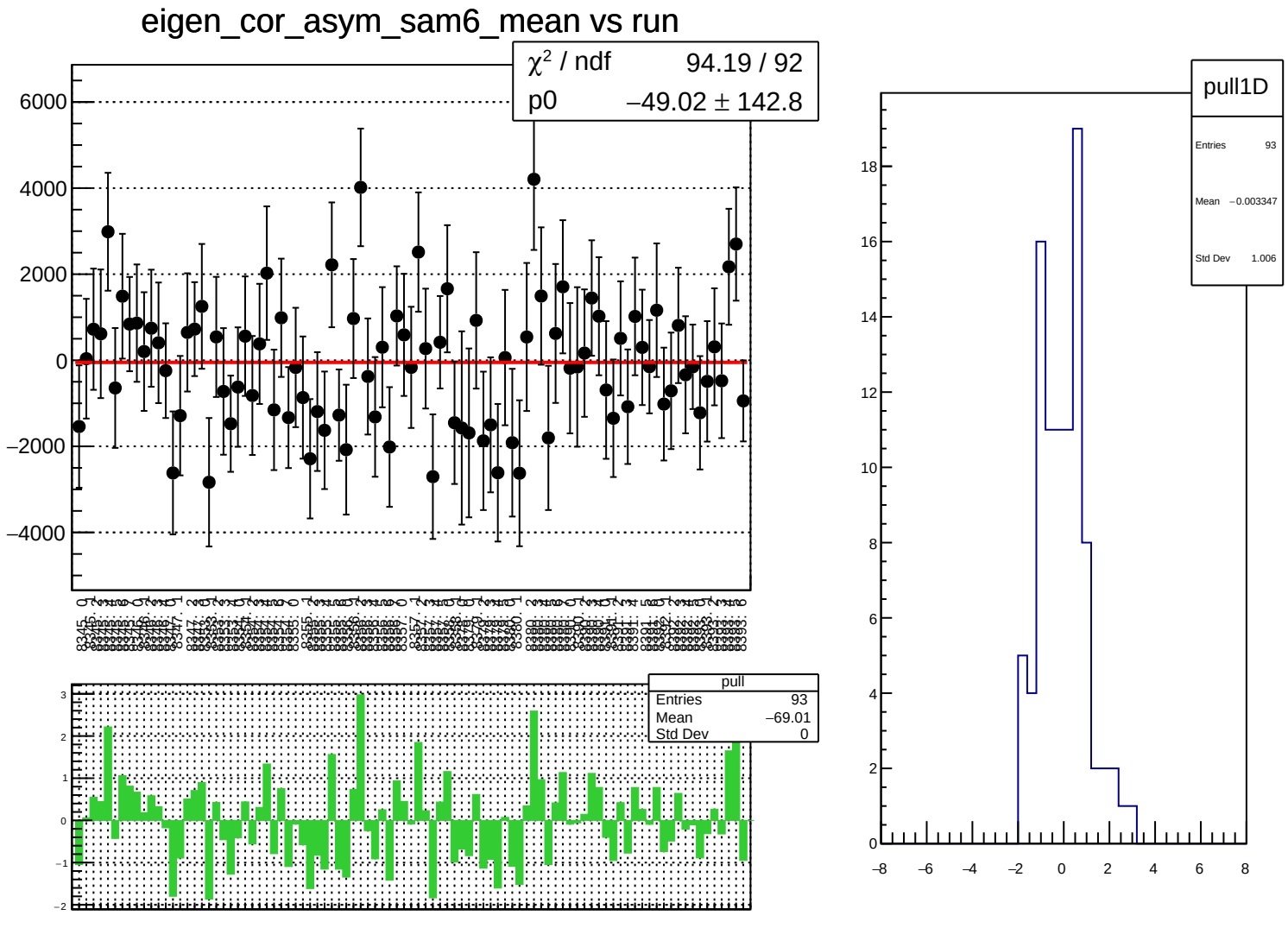

asym_sam6_reg_correction_rms vs run
χ² / ndf 2.605e+04 / 92
p0 1307 ± 0.9762
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100

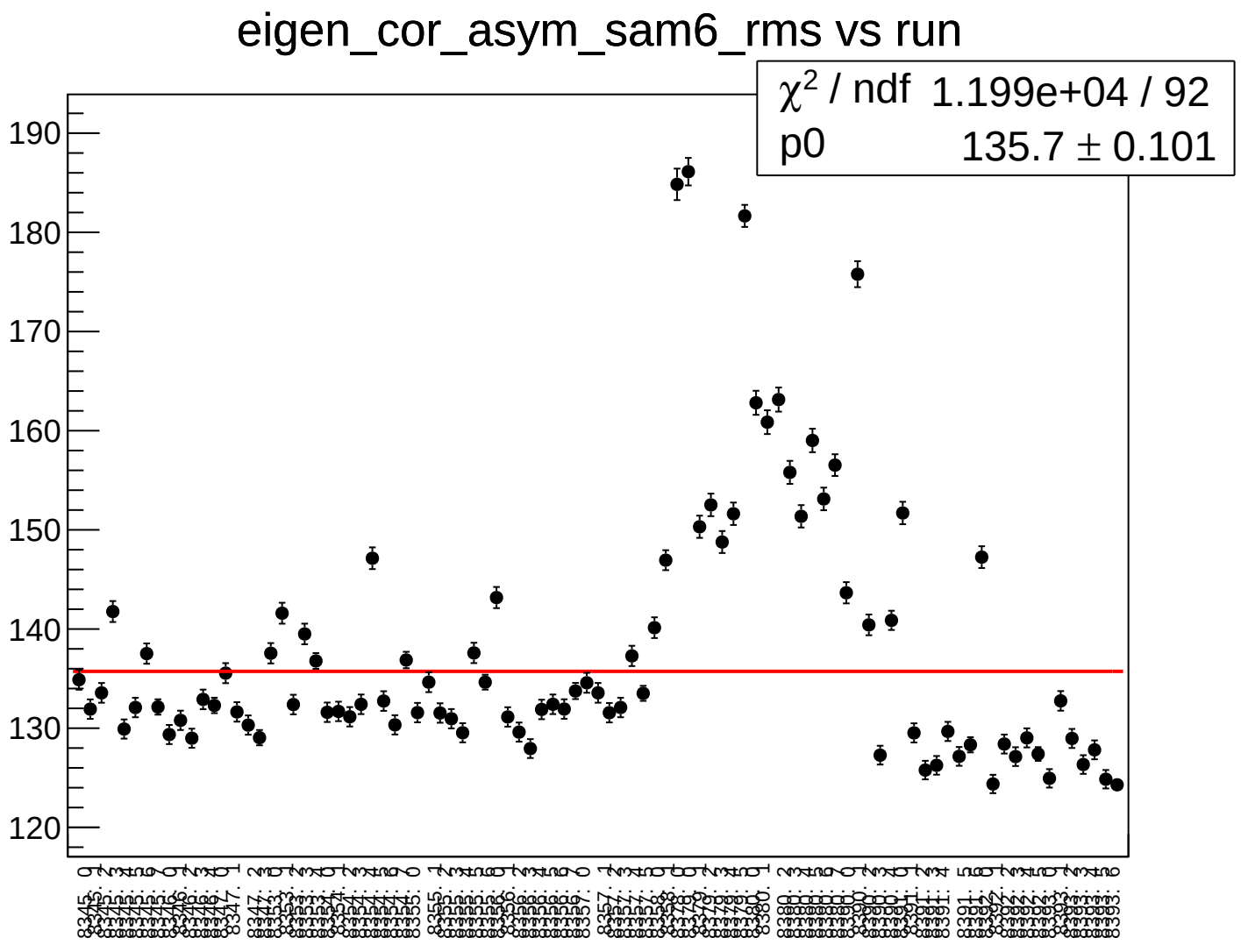

cor_asym_sam6_mean vs run
χ² / ndf 94.19 / 92
p0 −49.02 ± 142.8
6000
4000
2000
0
−2000
−4000
pull
Entries 93
Mean −69.01
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.003347
Std Dev 1.006
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

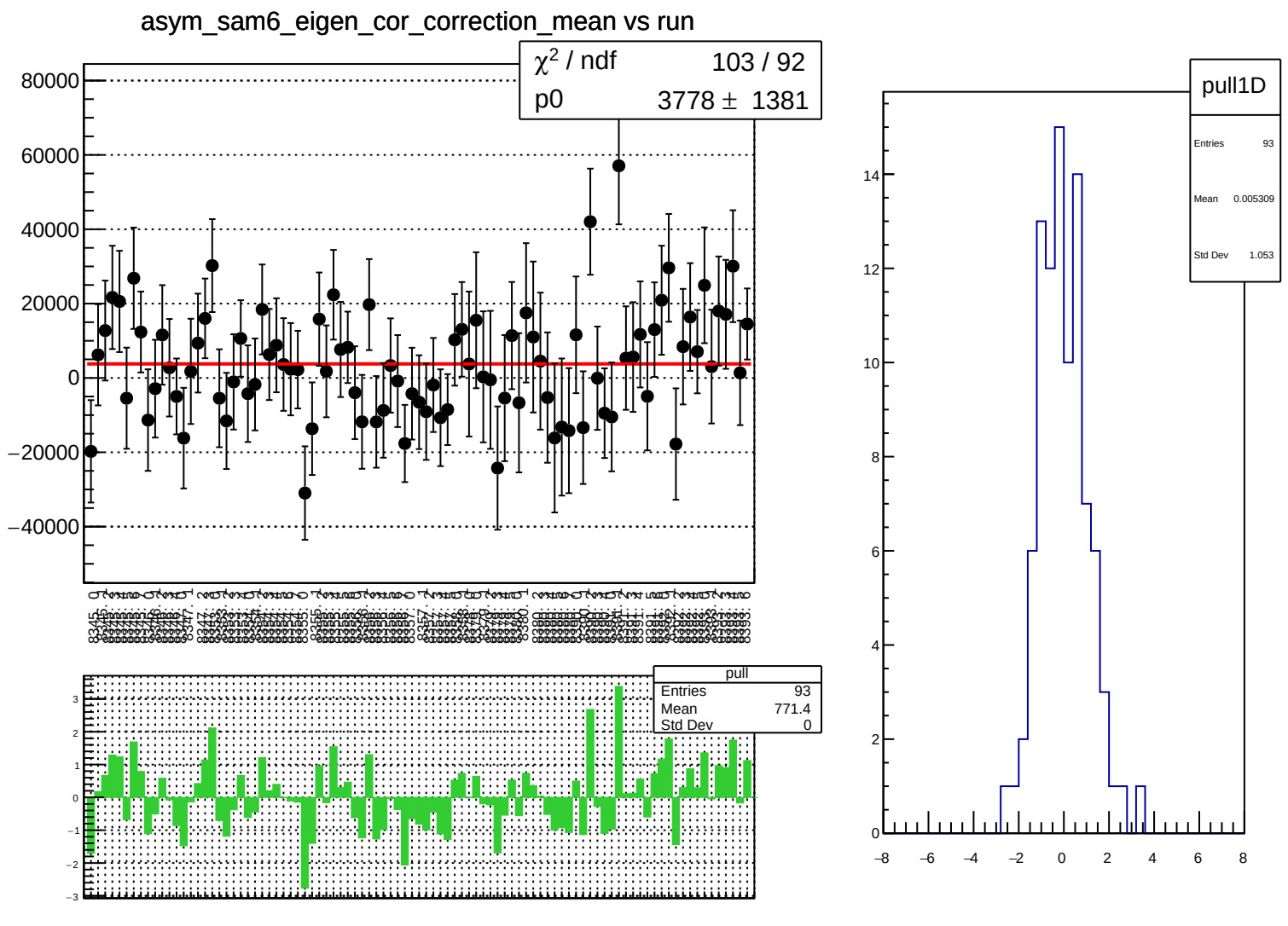

cor_asym_sam6_rms vs run
χ^2 / ndf 1.199e+04 / 92
p0 135.7 ± 0.101
190
180
170
160
150
140
130
120

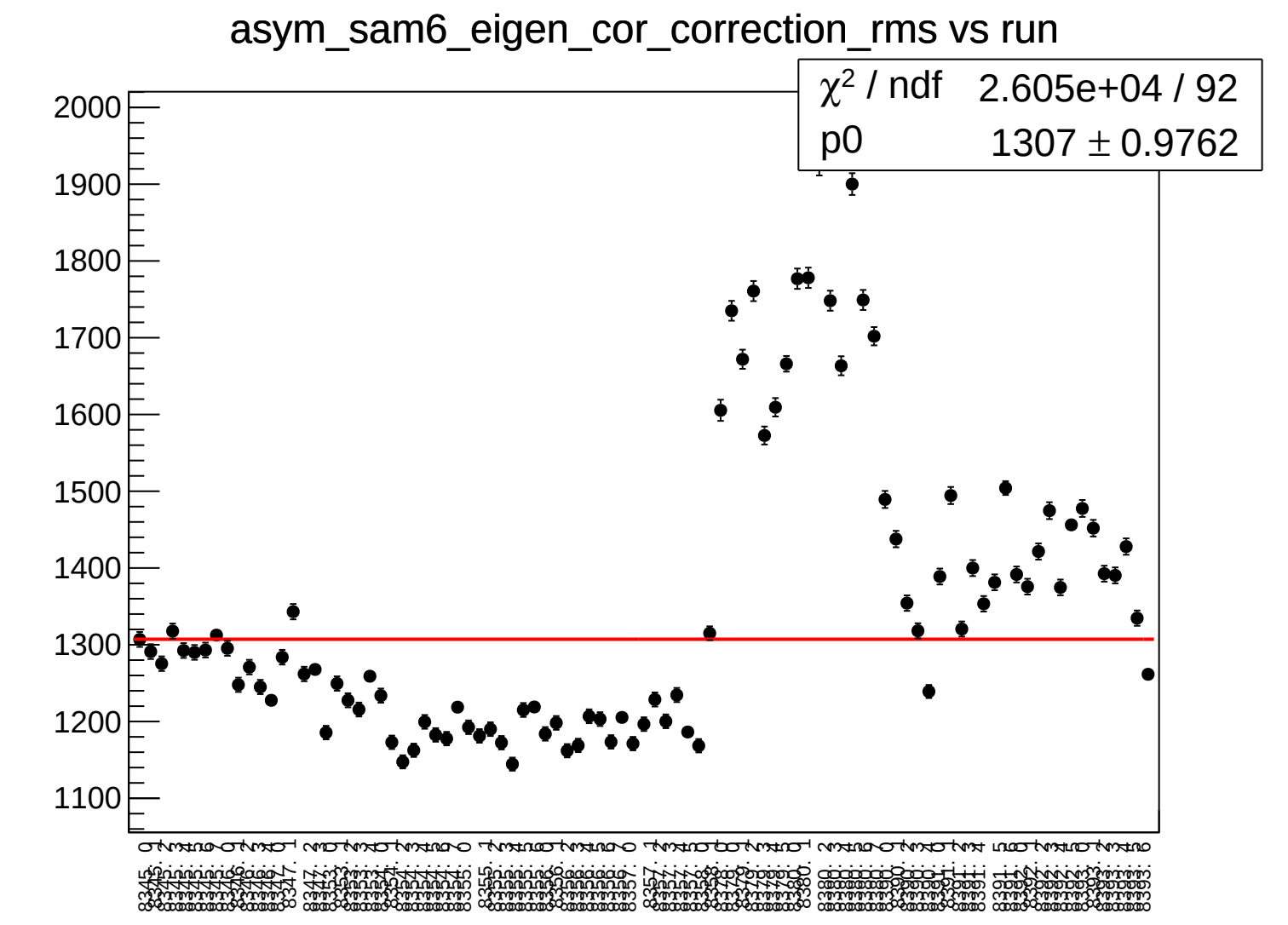

asym_sam6_cor_correction_mean vs run
χ² / ndf 103 / 92
p0 3778 ± 1381
80000
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 771.4
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.005309
Std Dev 1.053
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

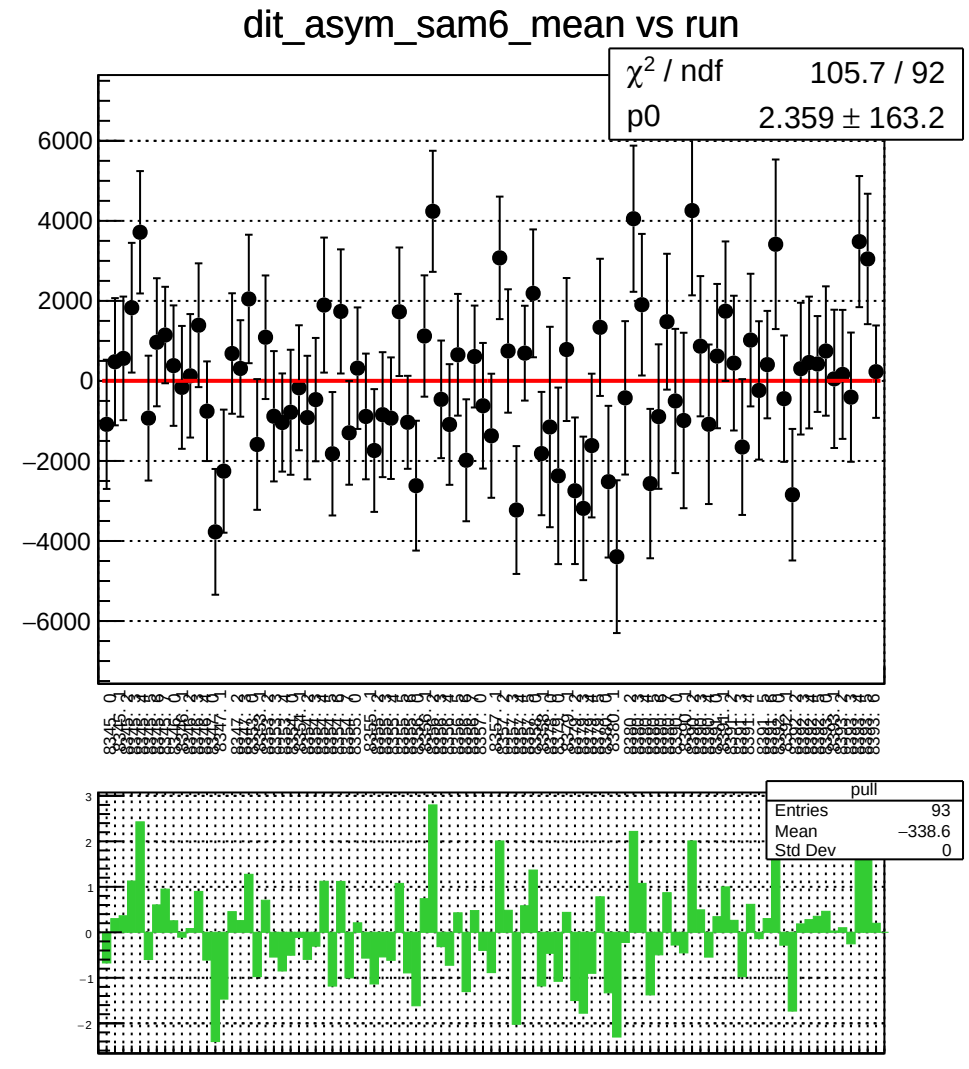

asym_sam6_cor_correction_rms vs run
χ² / ndf 2.605e+04 / 92
p0 1307 ± 0.9762
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100

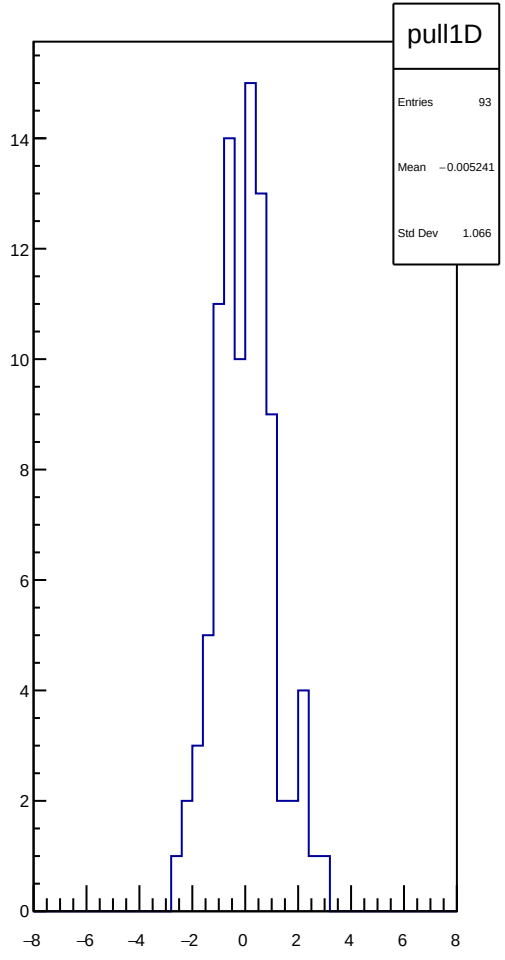

eigen_cor_asym_sam6_mean vs run
χ² / ndf 94.19 / 92
p0 −49.02 ± 142.8
6000
4000
2000
0
−2000
−4000
pull
Entries 93
Mean −69.01
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.003347
Std Dev 1.006
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

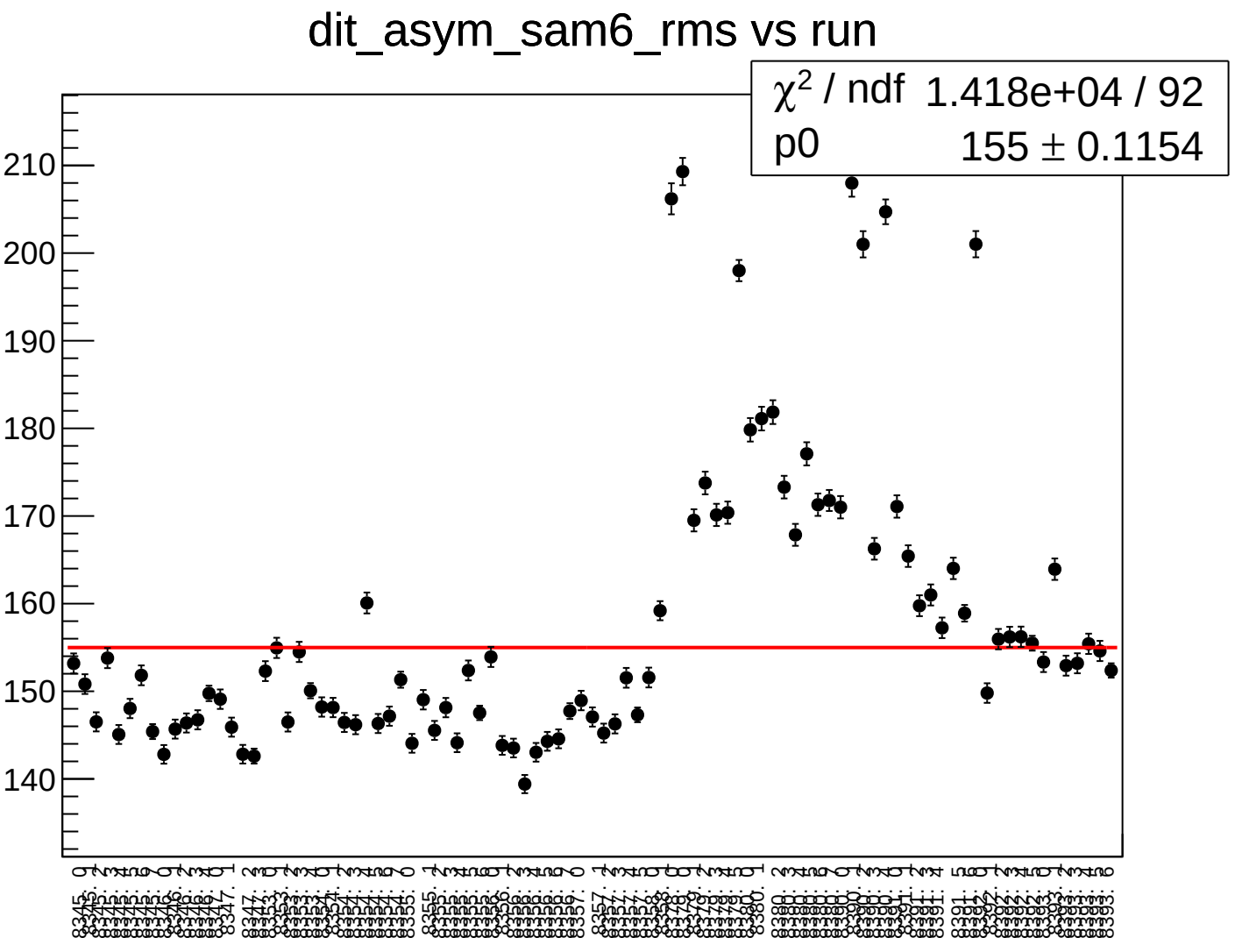

eigen_cor_asym_sam6_rms vs run
χ² / ndf 1.199e+04 / 92
p0 135.7 ± 0.101
190
180
170
160
150
140
130
120

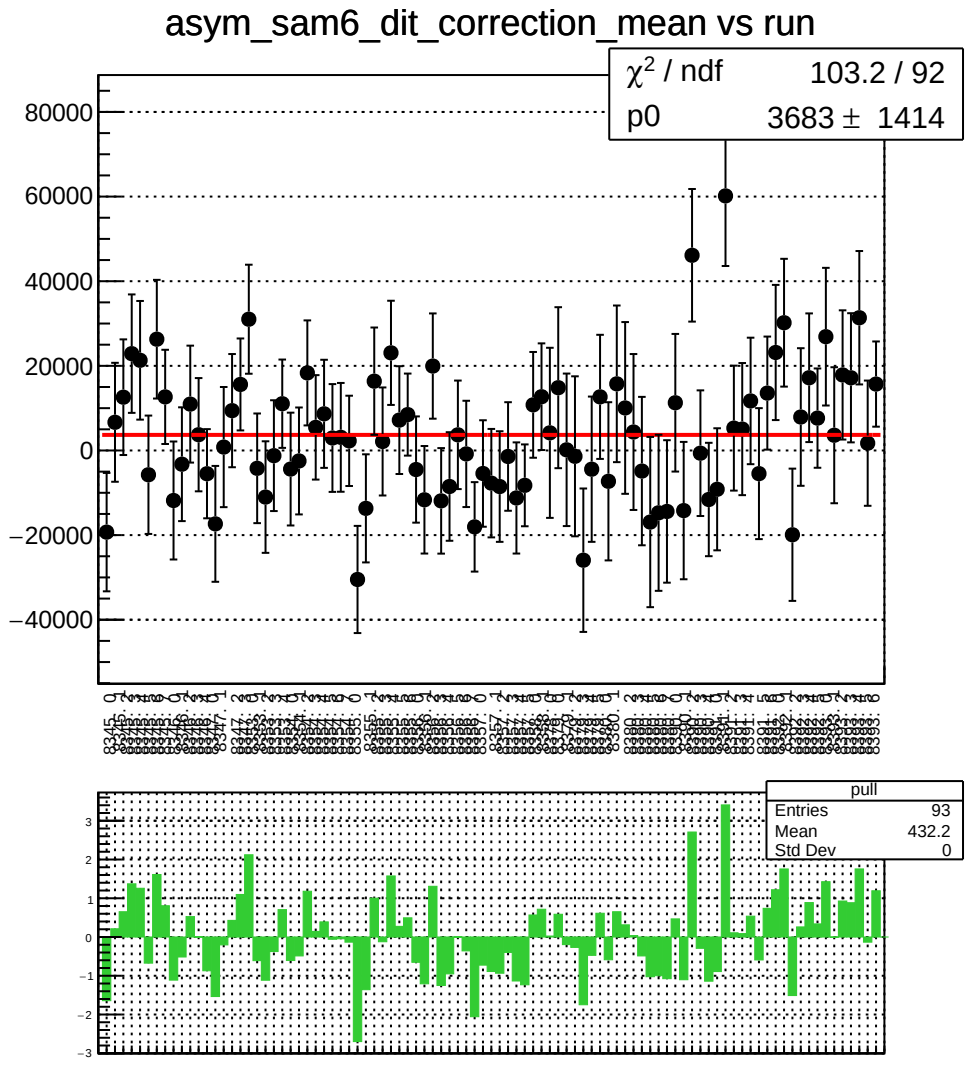

asym_sam6_eigen_cor_correction_mean vs run
χ² / ndf 103 / 92
p0 3778 ± 1381
80000
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 771.4
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.005309
Std Dev 1.053
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

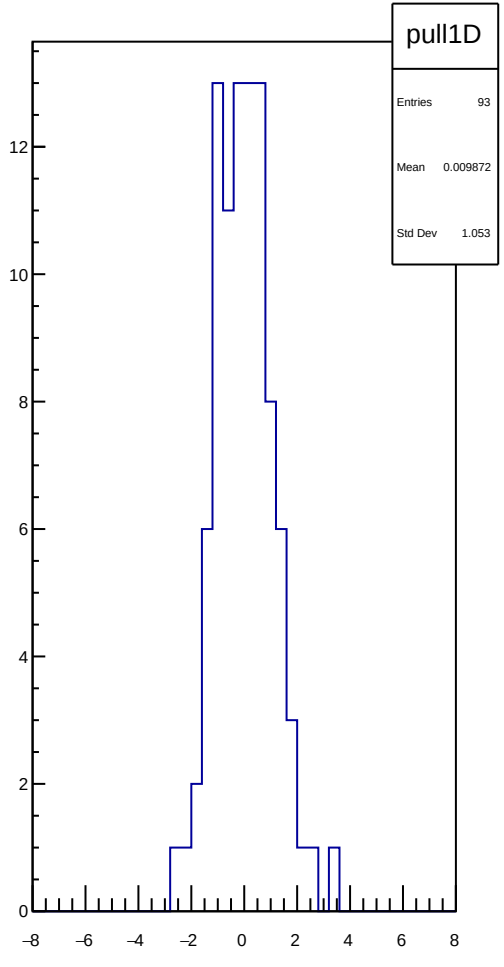

asym_sam6_eigen_cor_correction_rms vs run
χ² / ndf 2.605e+04 / 92
p0 1307 ± 0.9762
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100

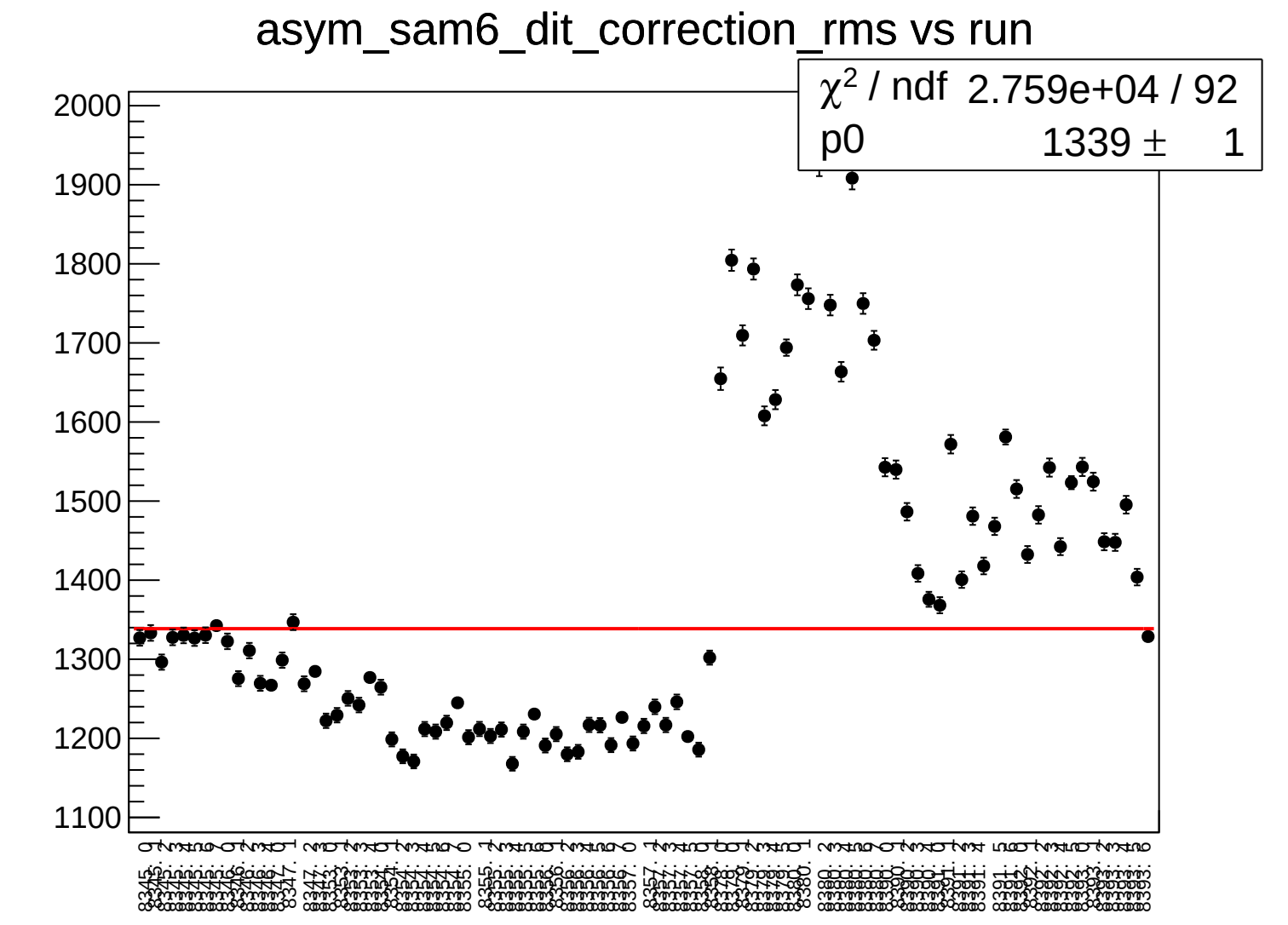

dit_asym_sam6_mean vs run
χ² / ndf 105.7 / 92
p0 2.359 ± 163.2
pull
Entries 93
Mean −338.6
Std Dev 0

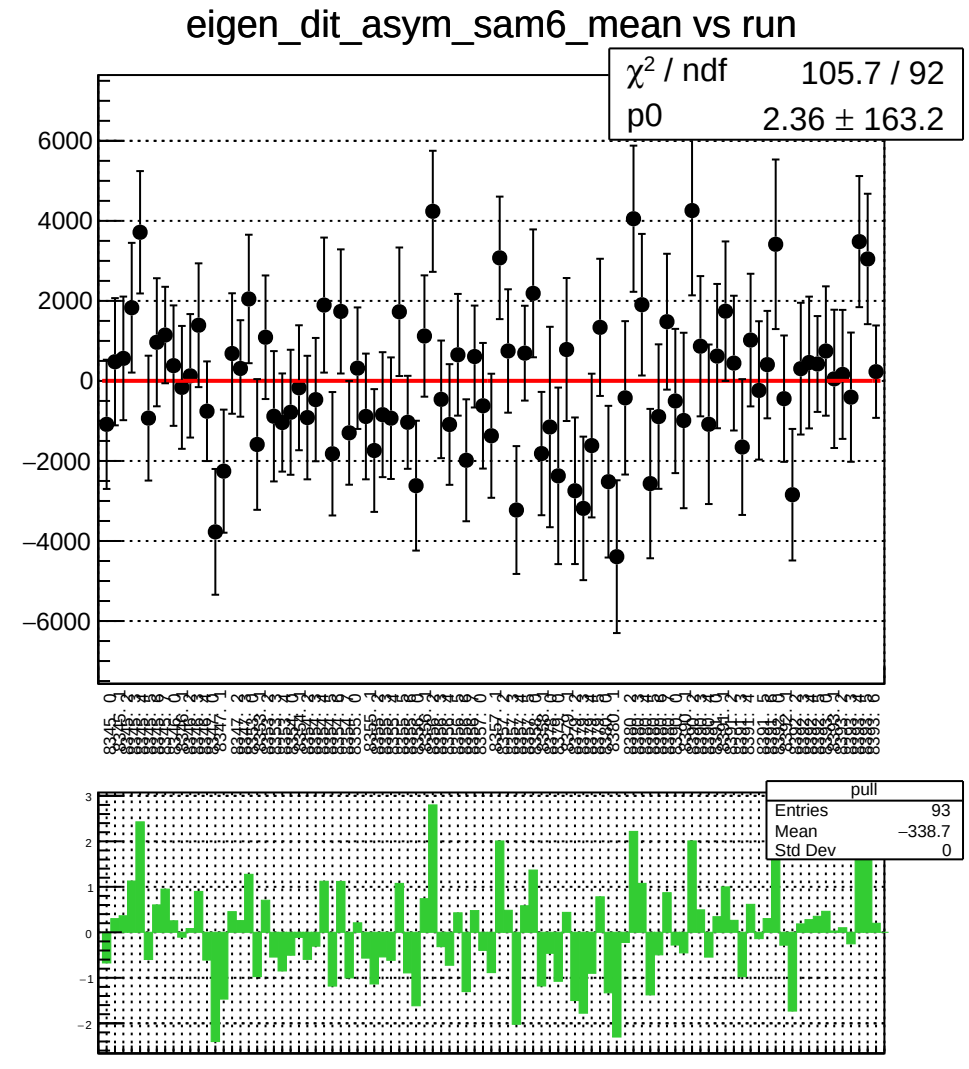

pull1D
Entries 93
Mean −0.005241
Std Dev 1.066

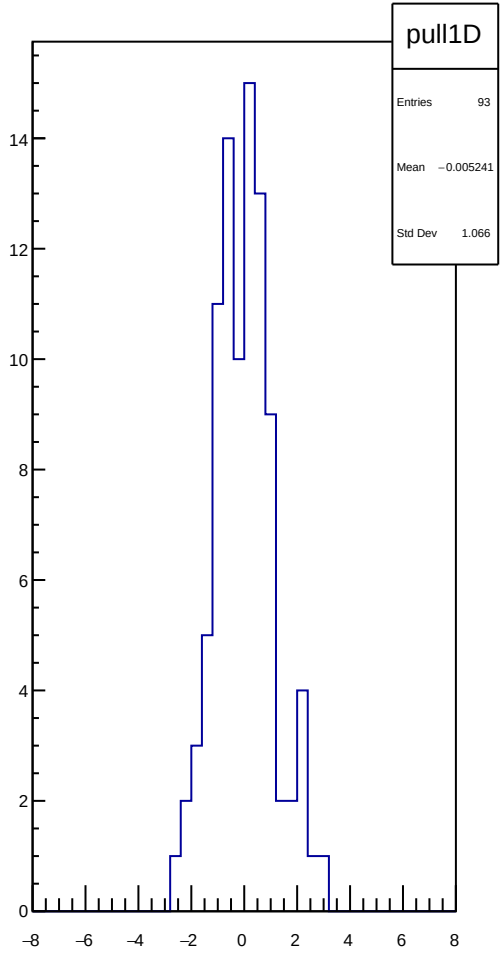

dit_asym_sam6_rms vs run
χ^2 / ndf 1.418e+04 / 92
p0 155 ± 0.1154
210
200
190
180
170
160
150
140

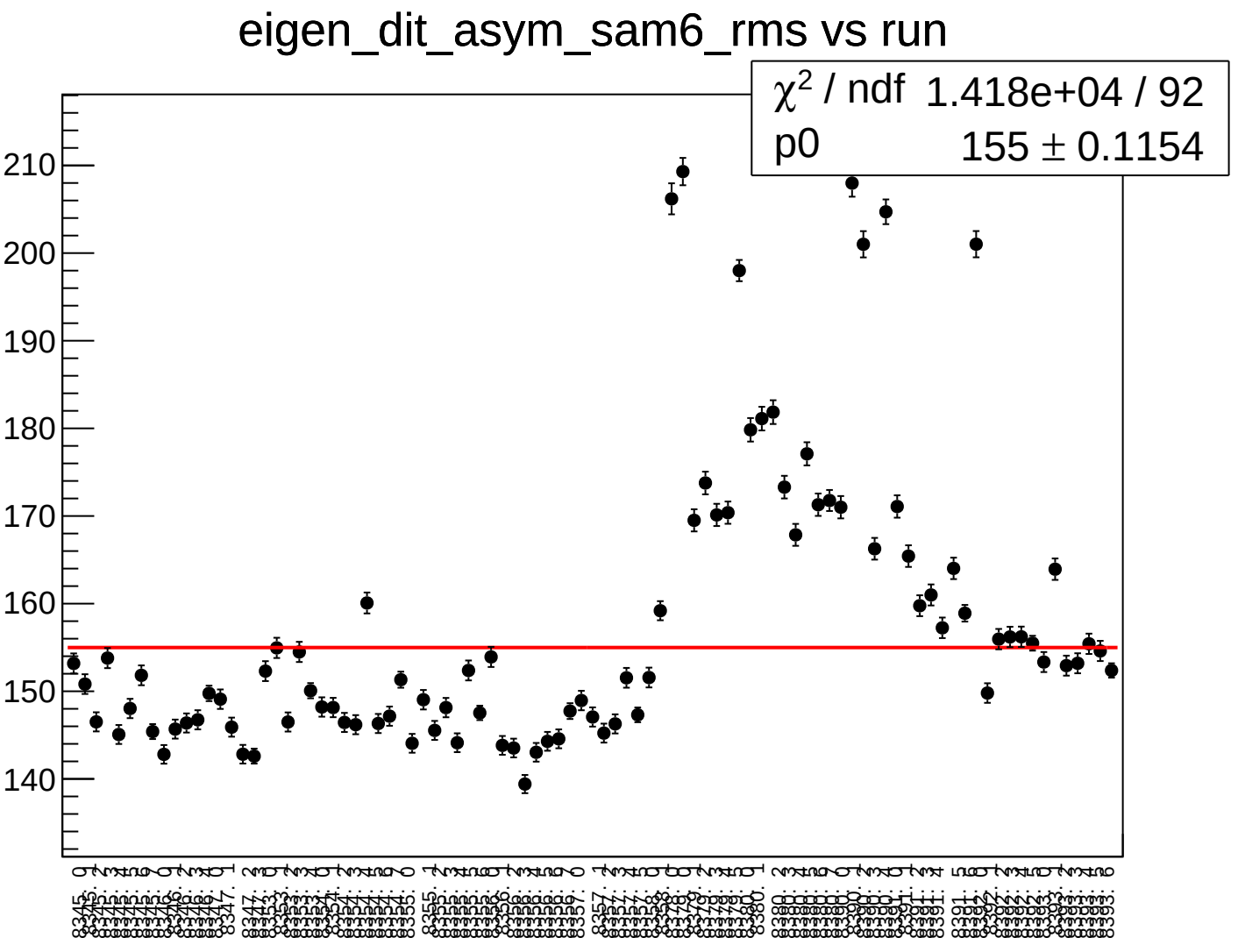

asym_sam6_dit_correction_mean vs run
χ² / ndf 103.2 / 92
p0 3683 ± 1414
80000
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 432.2
Std Dev 0
3
2
1
0
−1
−2
−3

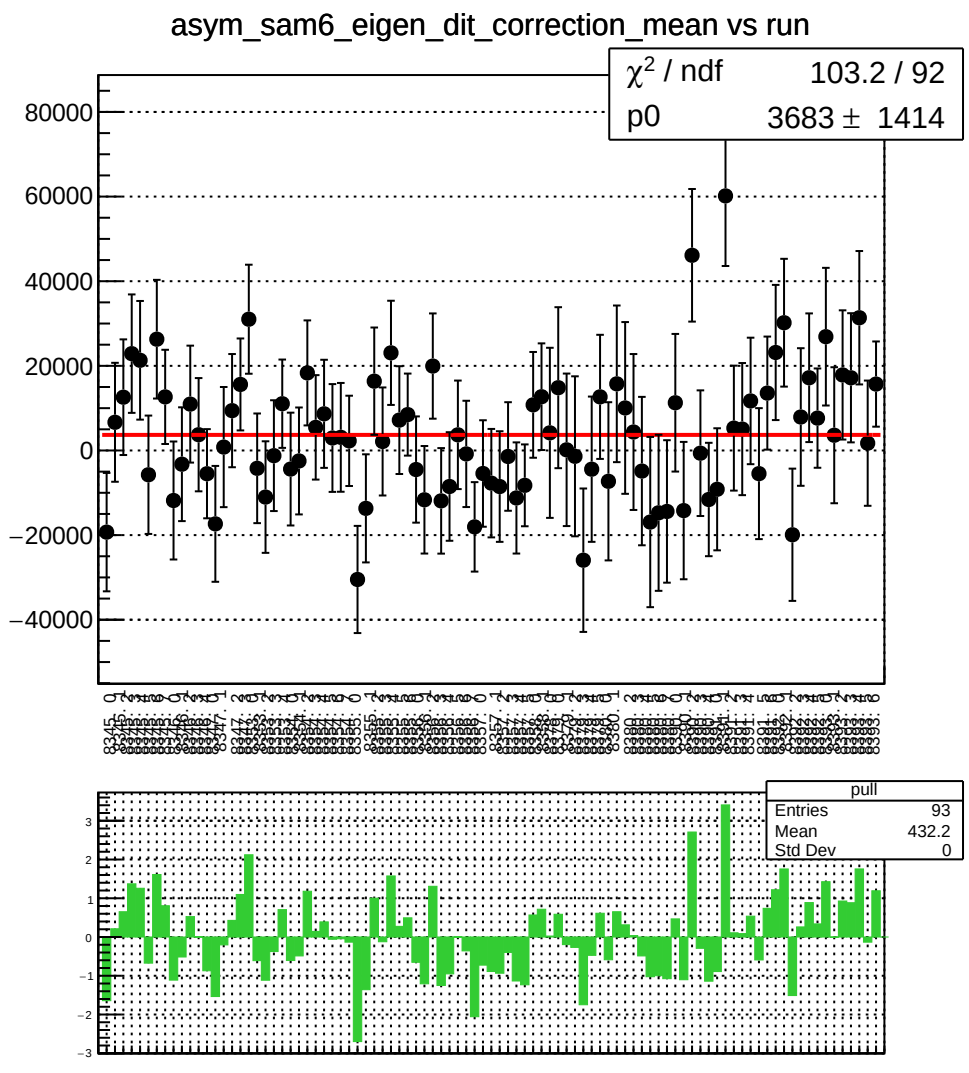

pull1D
Entries 93
Mean 0.009872
Std Dev 1.053
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

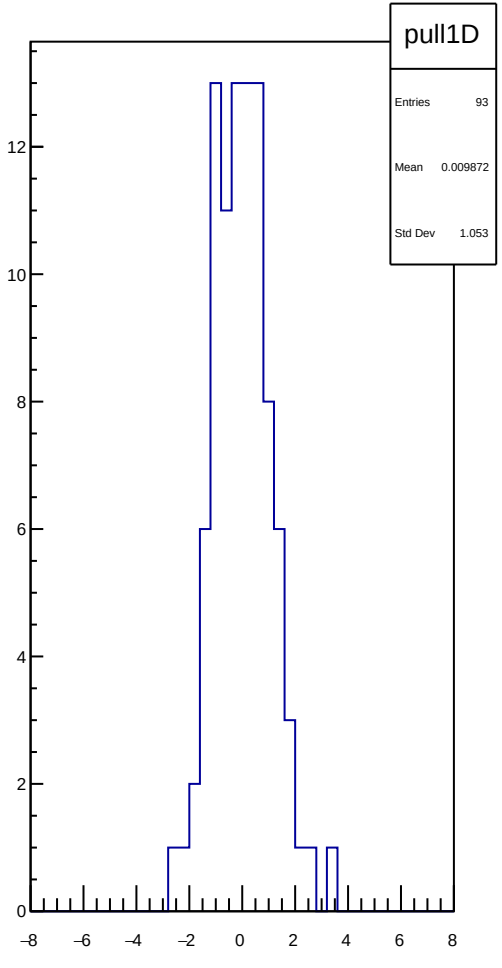

asym_sam6_dit_correction_rms vs run
χ² / ndf 2.759e+04 / 92
p0 1339 ± 1
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100

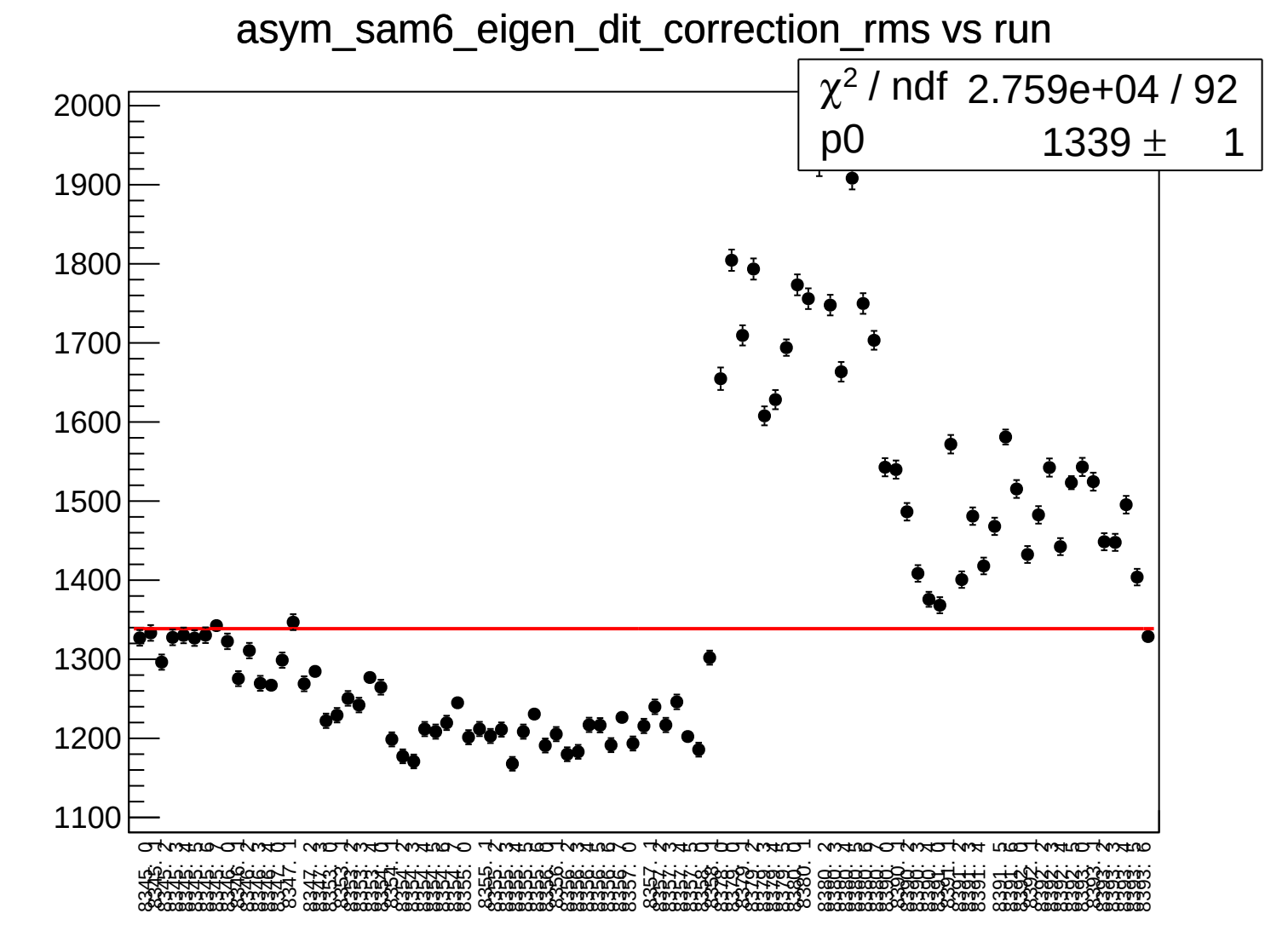

eigen_dit_asym_sam6_mean vs run
χ² / ndf 105.7 / 92
p0 2.36 ± 163.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean −338.7
Std Dev 0
3
2
1
0
−1
−2

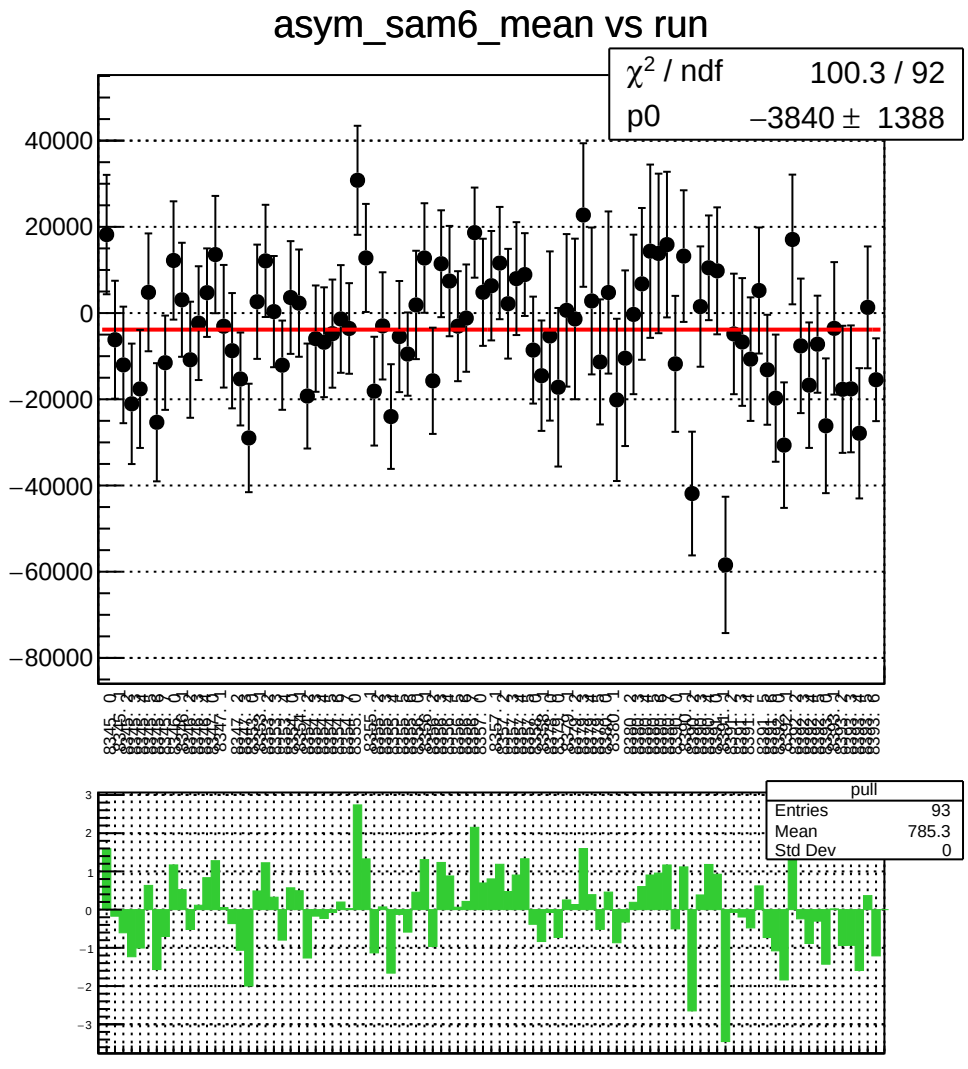

pull1D
Entries 93
Mean −0.005241
Std Dev 1.066
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

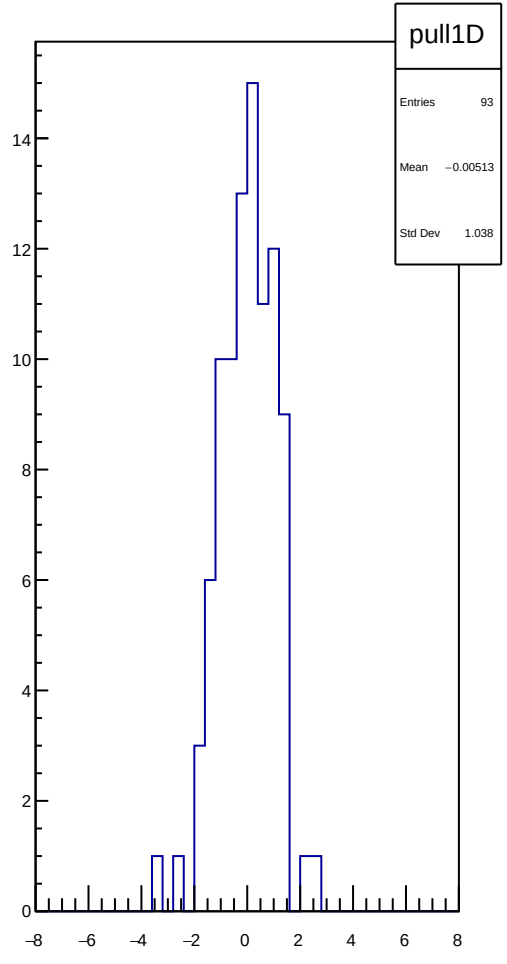

eigen_dit_asym_sam6_rms vs run
χ^2 / ndf 1.418e+04 / 92
p0 155 ± 0.1154
210
200
190
180
170
160
150
140

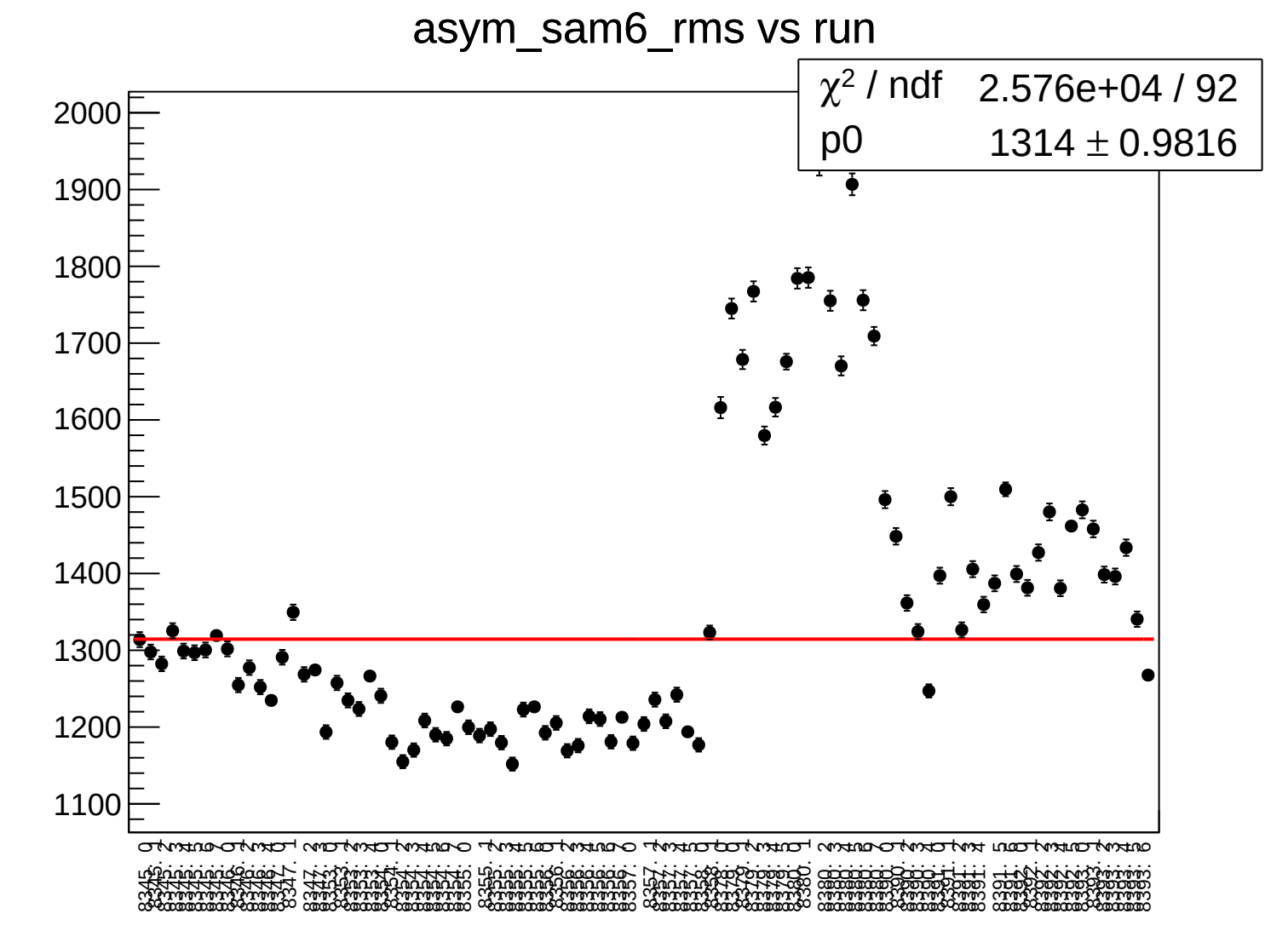

asym_sam6_eigen_dit_correction_mean vs run
χ² / ndf 103.2 / 92
p0 3683 ± 1414
80000
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 432.2
Std Dev 0
3
2
1
0
−1
−2
−3

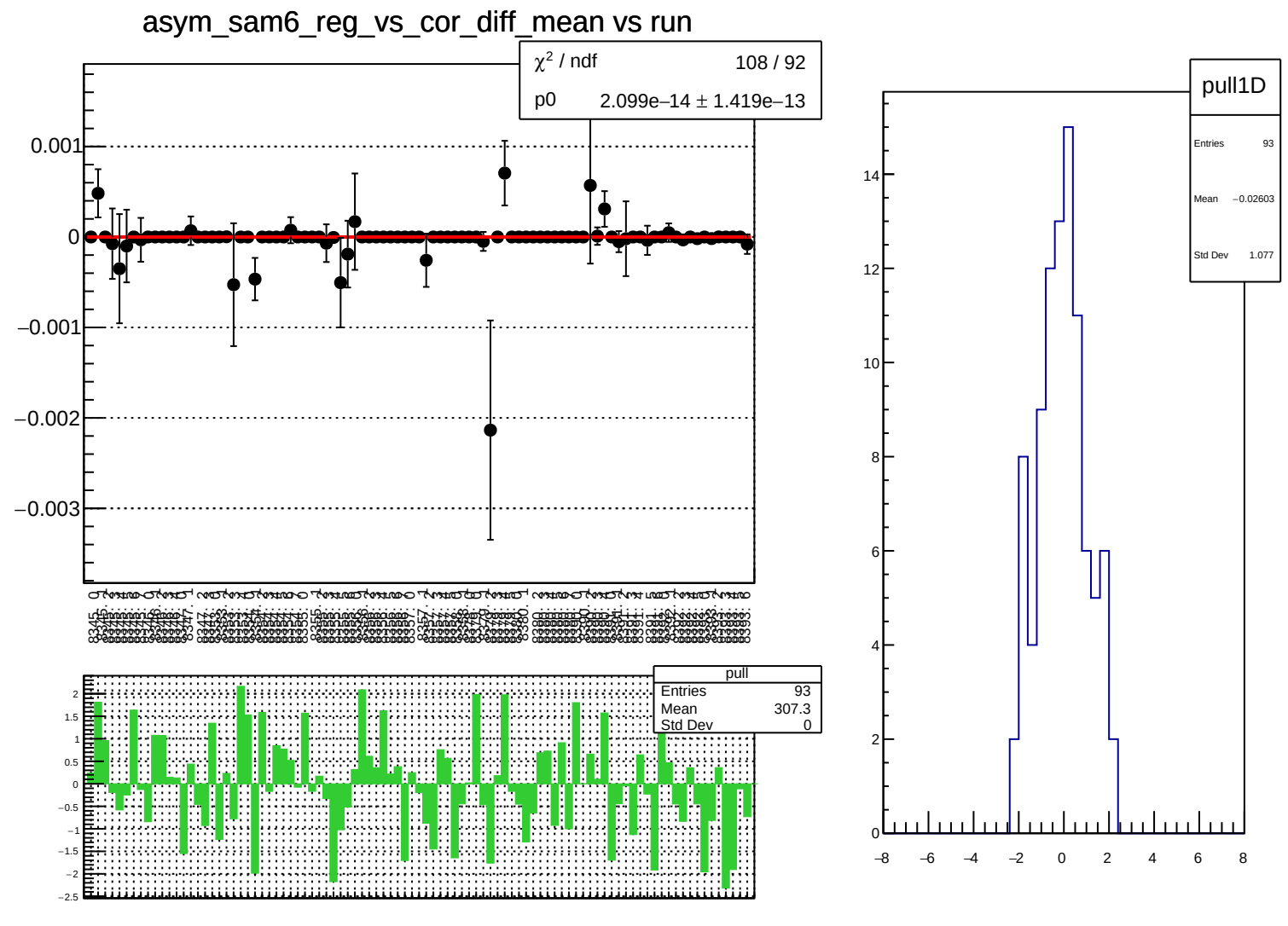

pull1D
Entries 93
Mean 0.009872
Std Dev 1.053
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

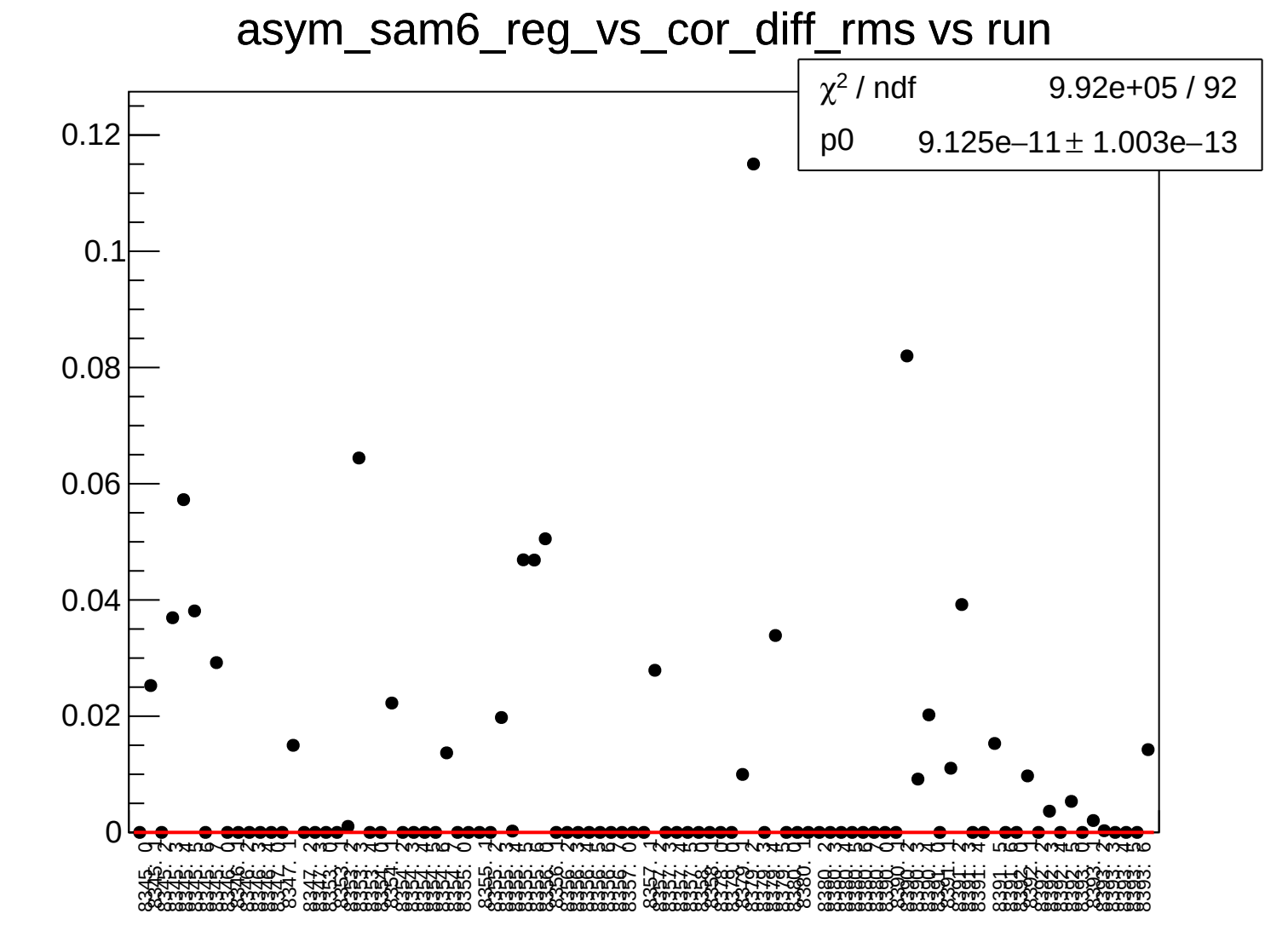

asym_sam6_eigen_dit_correction_rms vs run
χ² / ndf 2.759e+04 / 92
p0 1339 ± 1
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100

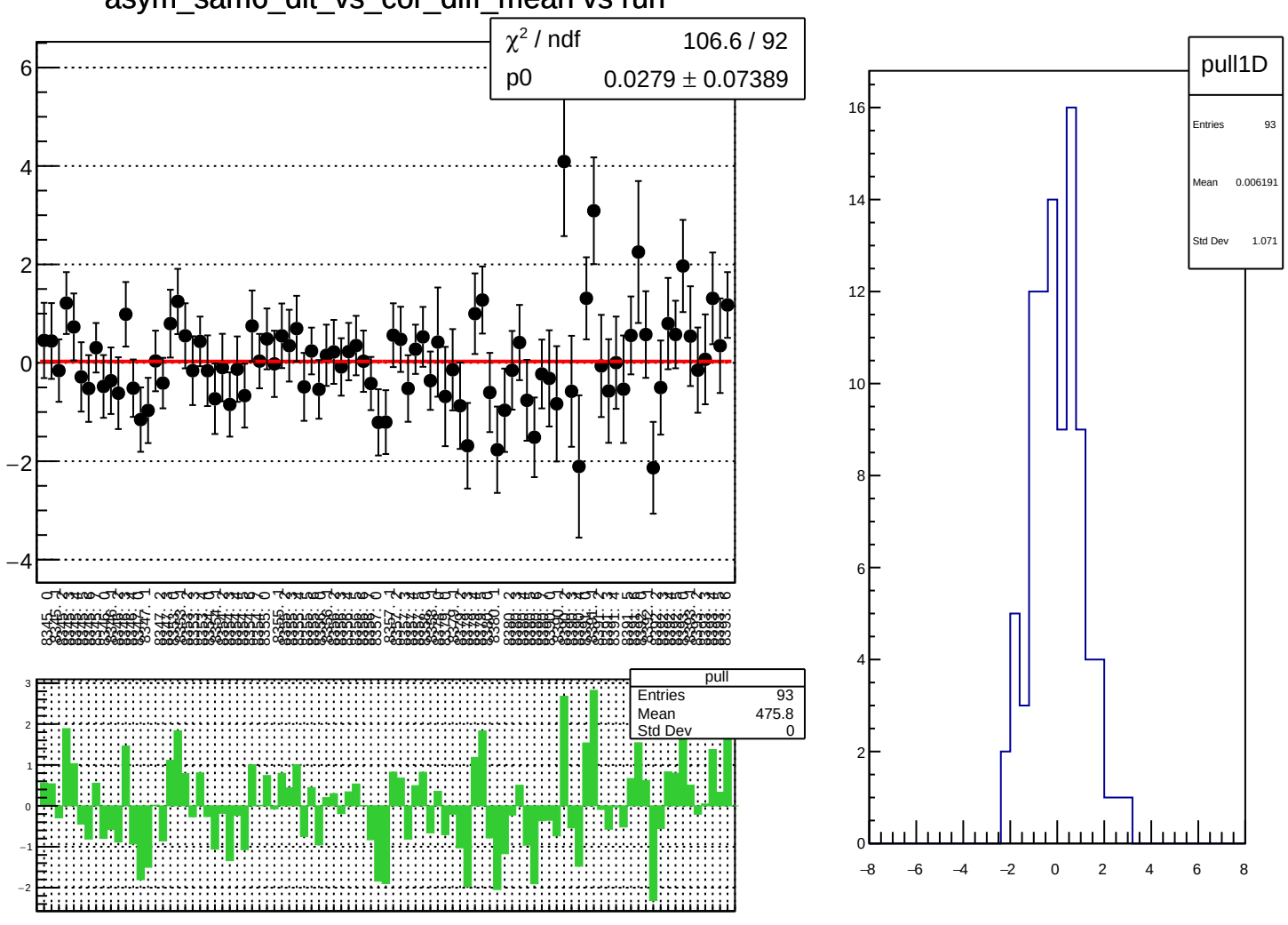

asym_sam6_mean vs run
χ² / ndf 100.3 / 92
p0 −3840 ± 1388
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 785.3
Std Dev 0
3
2
1
0
−1
−2
−3

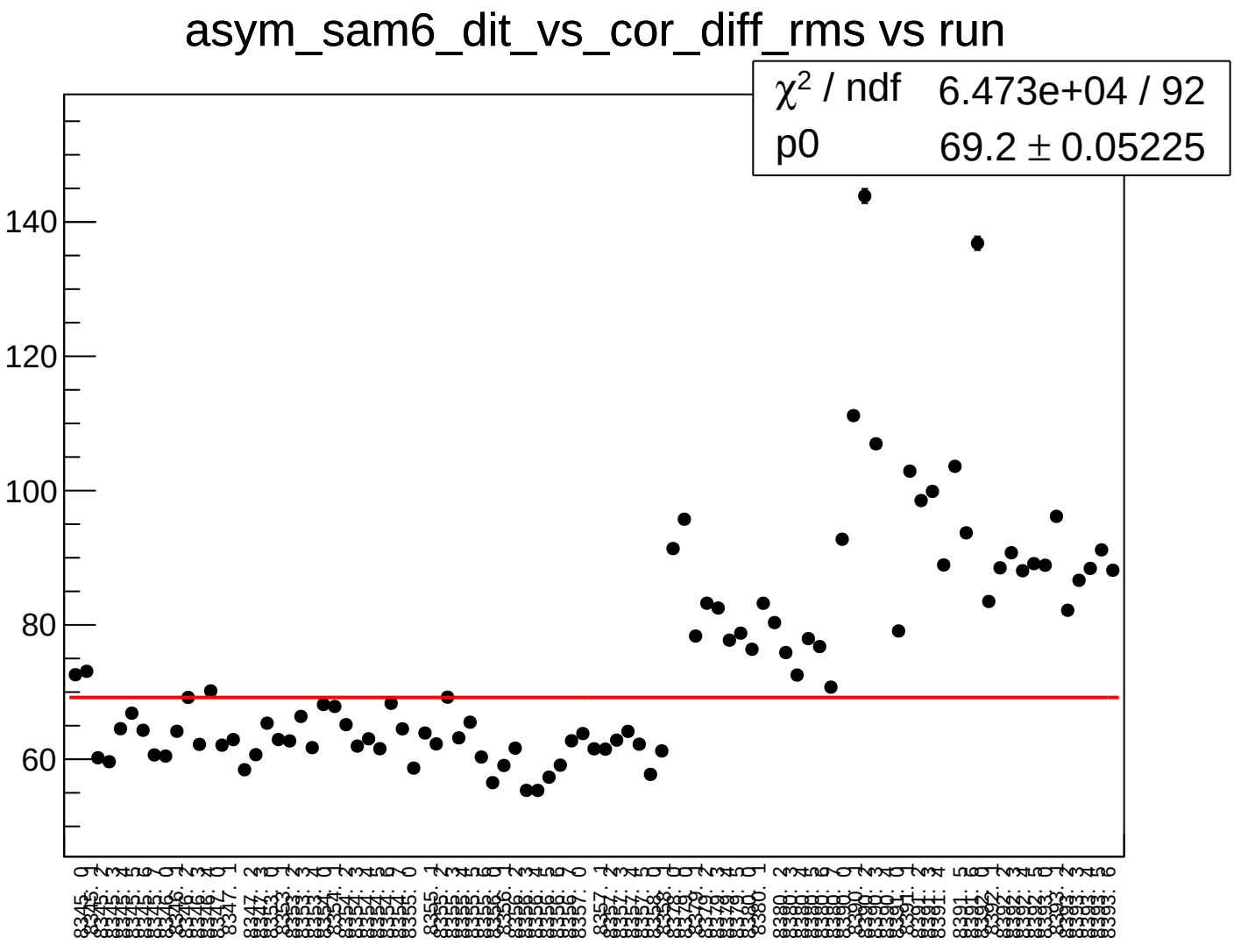

pull1D
Entries 93
Mean −0.00513
Std Dev 1.038
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

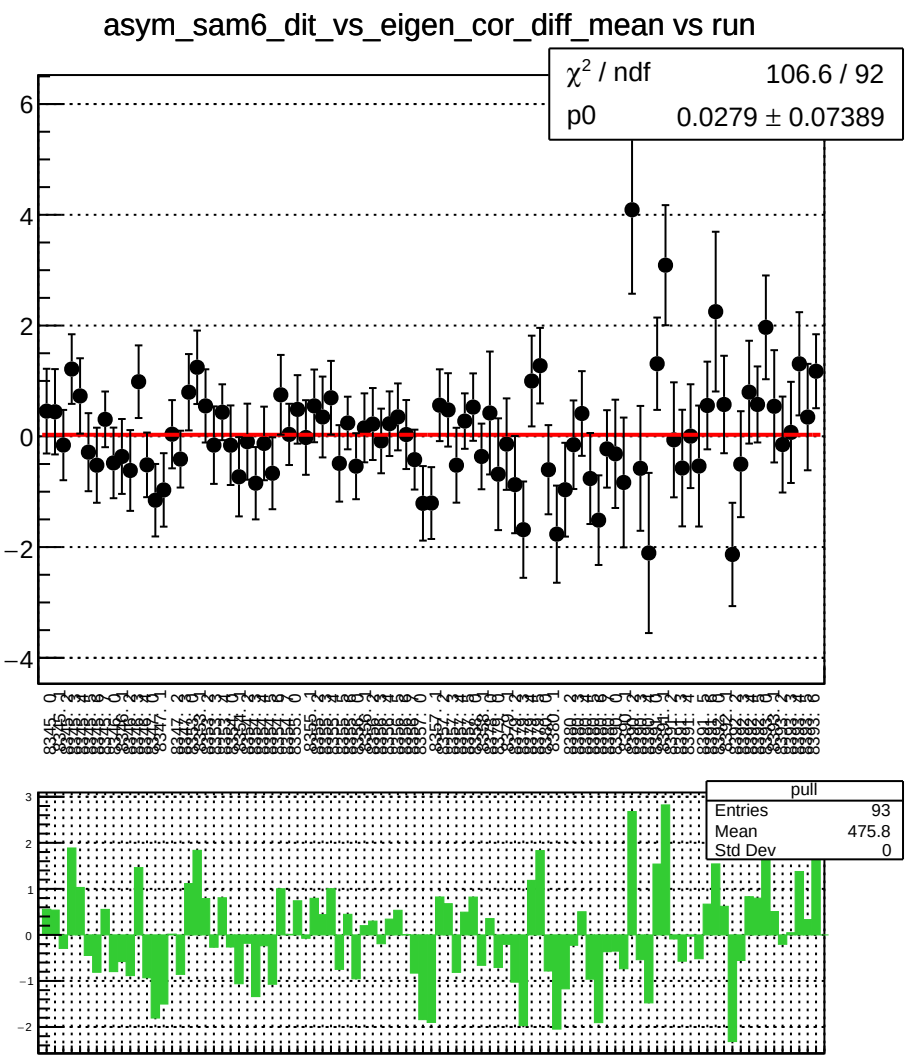

asym_sam6_rms vs run
χ² / ndf 2.576e+04 / 92
p0 1314 ± 0.9816
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100

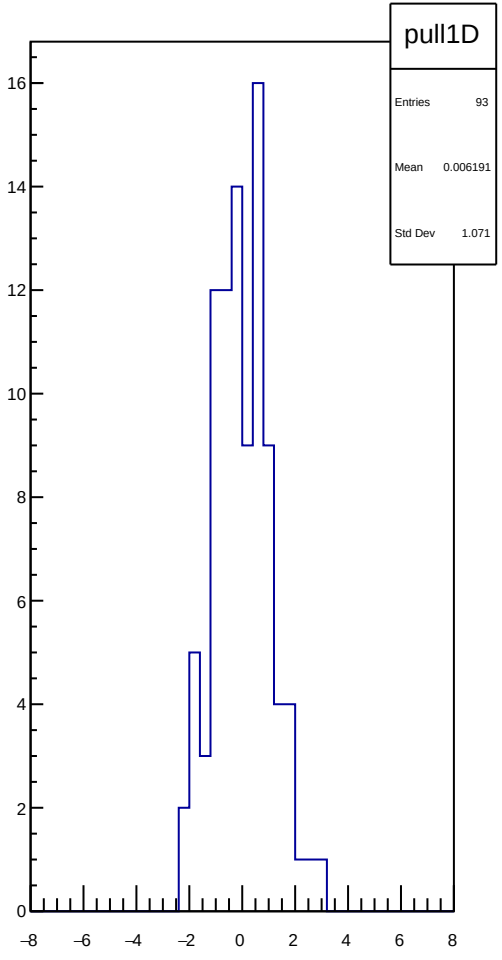

asym_sam6_reg_vs_cor_diff_mean vs run
χ² / ndf 108 / 92
p0 2.099e−14 ± 1.419e−13
0.001
0
−0.001
−0.002
−0.003
pull
Entries 93
Mean 307.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 93
Mean −0.02603
Std Dev 1.077
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

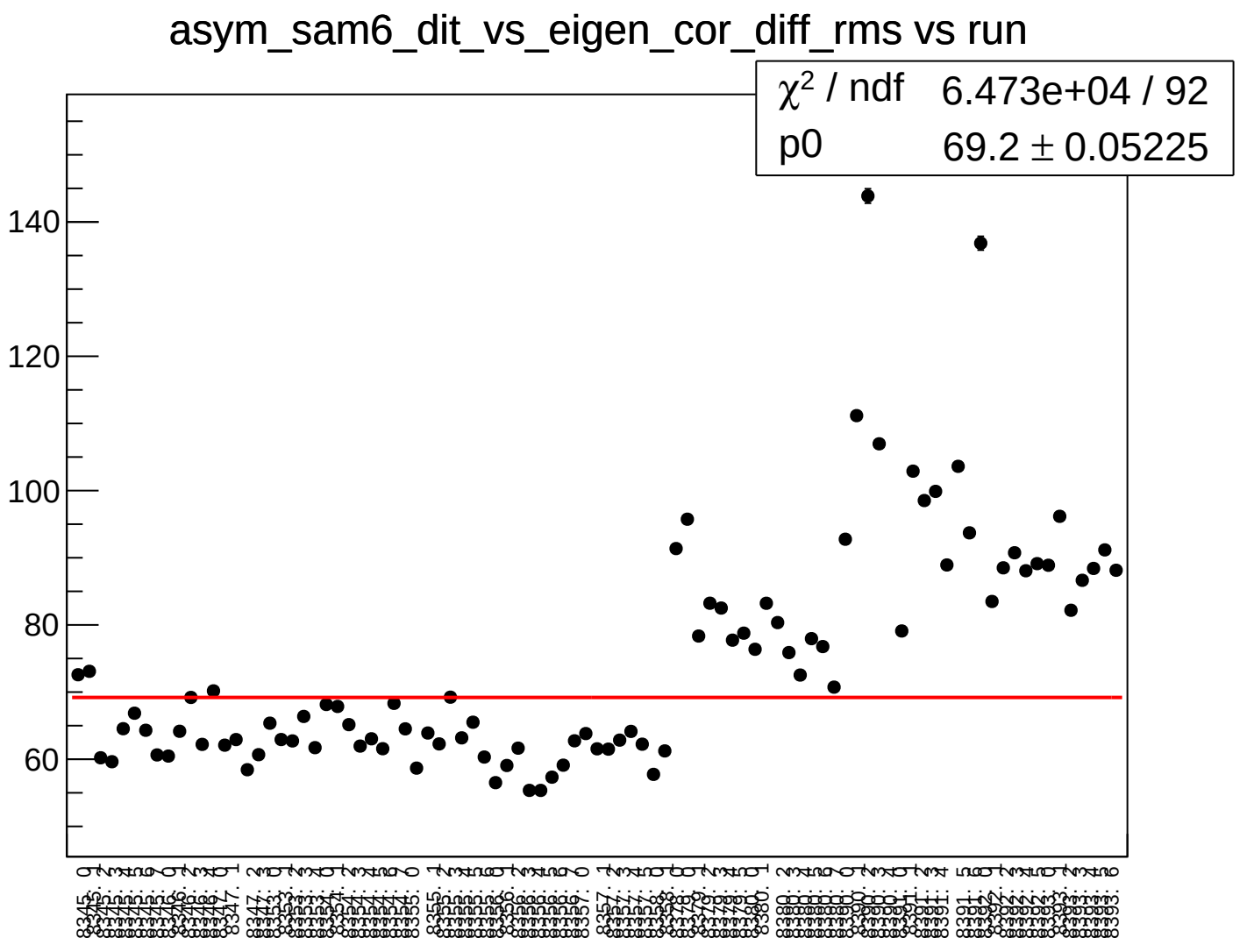

asym_sam6_reg_vs_cor_diff_rms vs run
χ² / ndf 9.92e+05 / 92
p0 9.125e−11 ± 1.003e−13
0.12
0.1
0.08
0.06
0.04
0.02
0

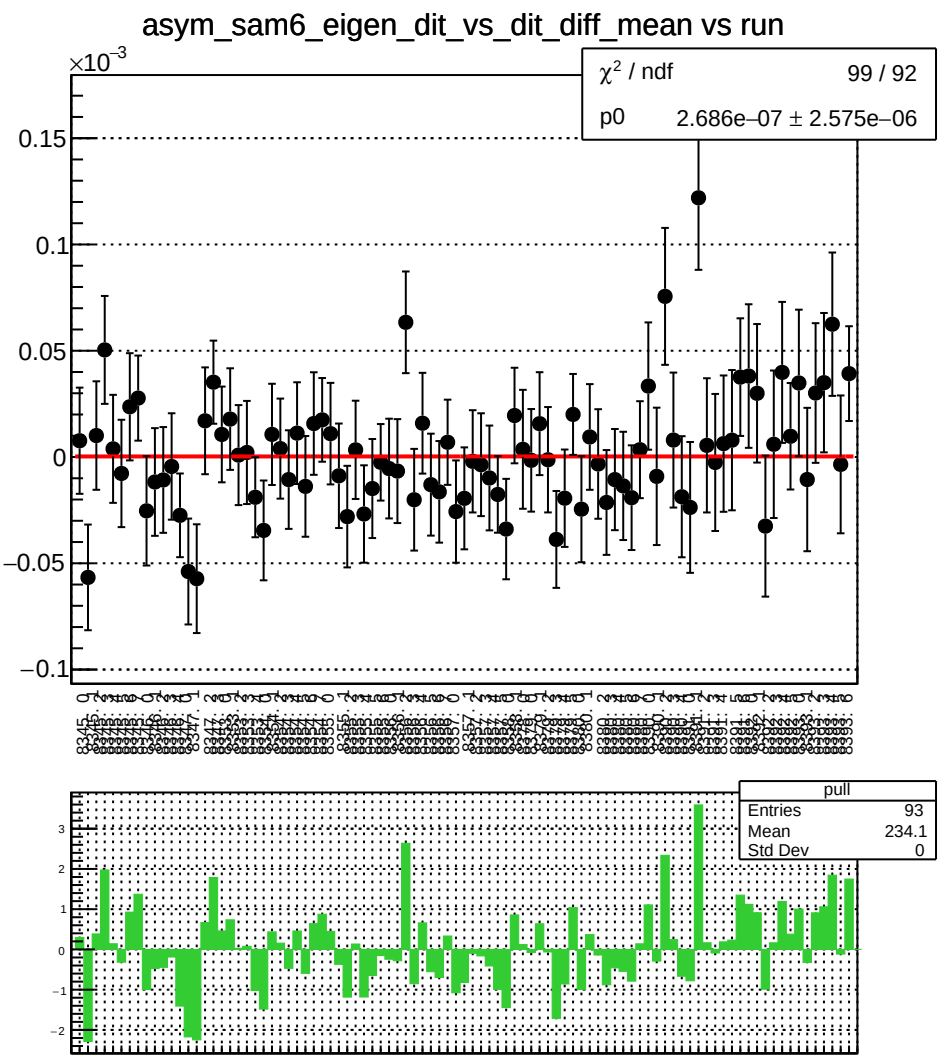

asym_sam6_dit_vs_cor_diff_mean vs run
χ² / ndf 106.6 / 92
p0 0.0279 ± 0.07389
pull
Entries 93
Mean 475.8
Std Dev 0
pull1D
Entries 93
Mean 0.006191
Std Dev 1.071

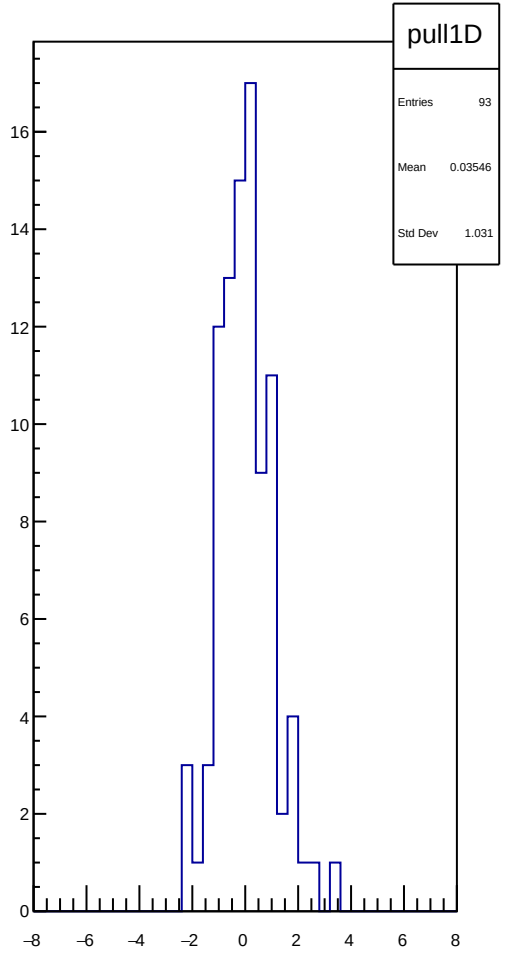

asym_sam6_dit_vs_cor_diff_rms vs run
χ² / ndf 6.473e+04 / 92
p0 69.2 ± 0.05225
140
120
100
80
60

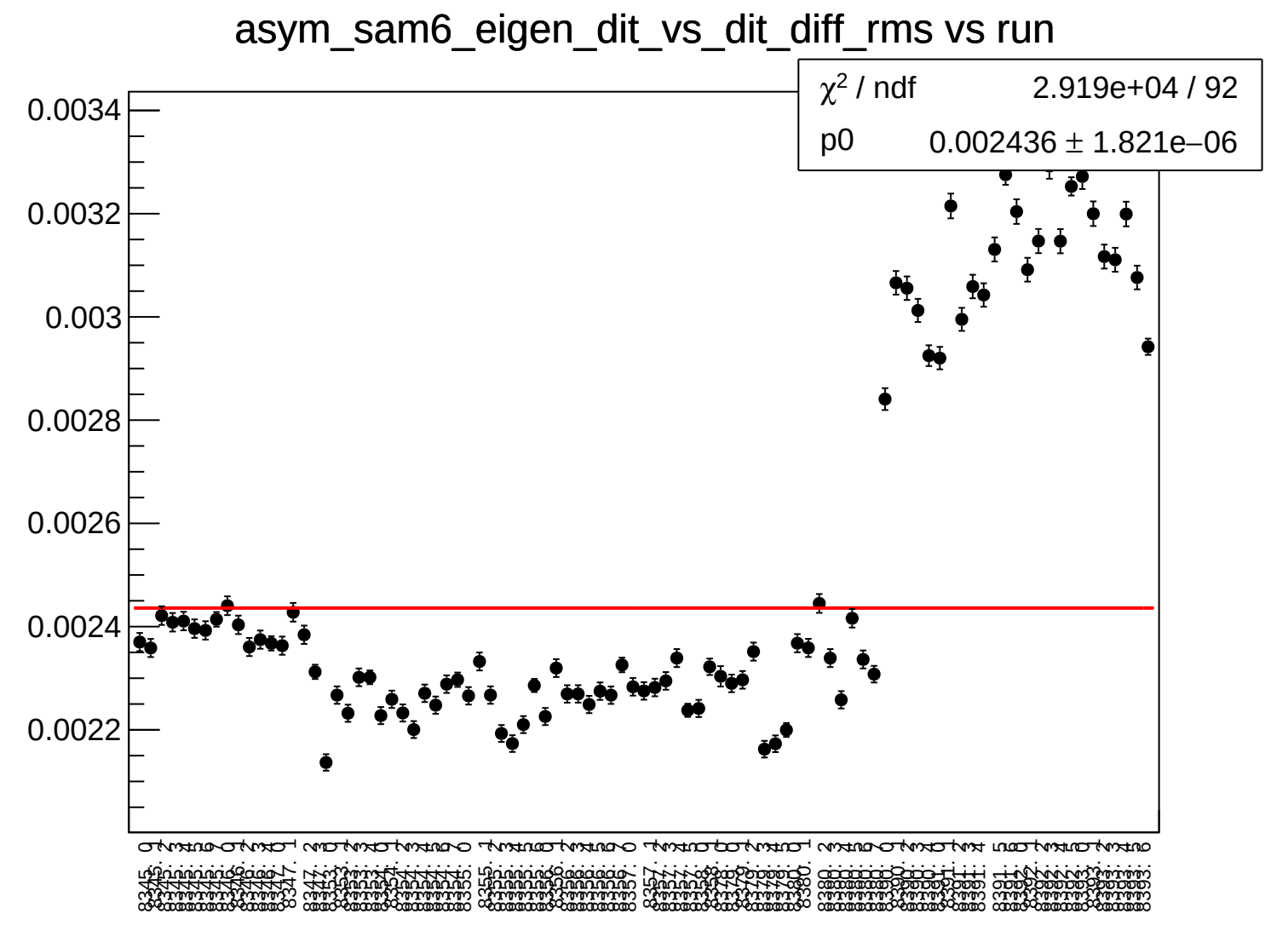

asym_sam6_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.6 / 92
p0 0.0279 ± 0.07389
pull
Entries 93
Mean 475.8
Std Dev 0

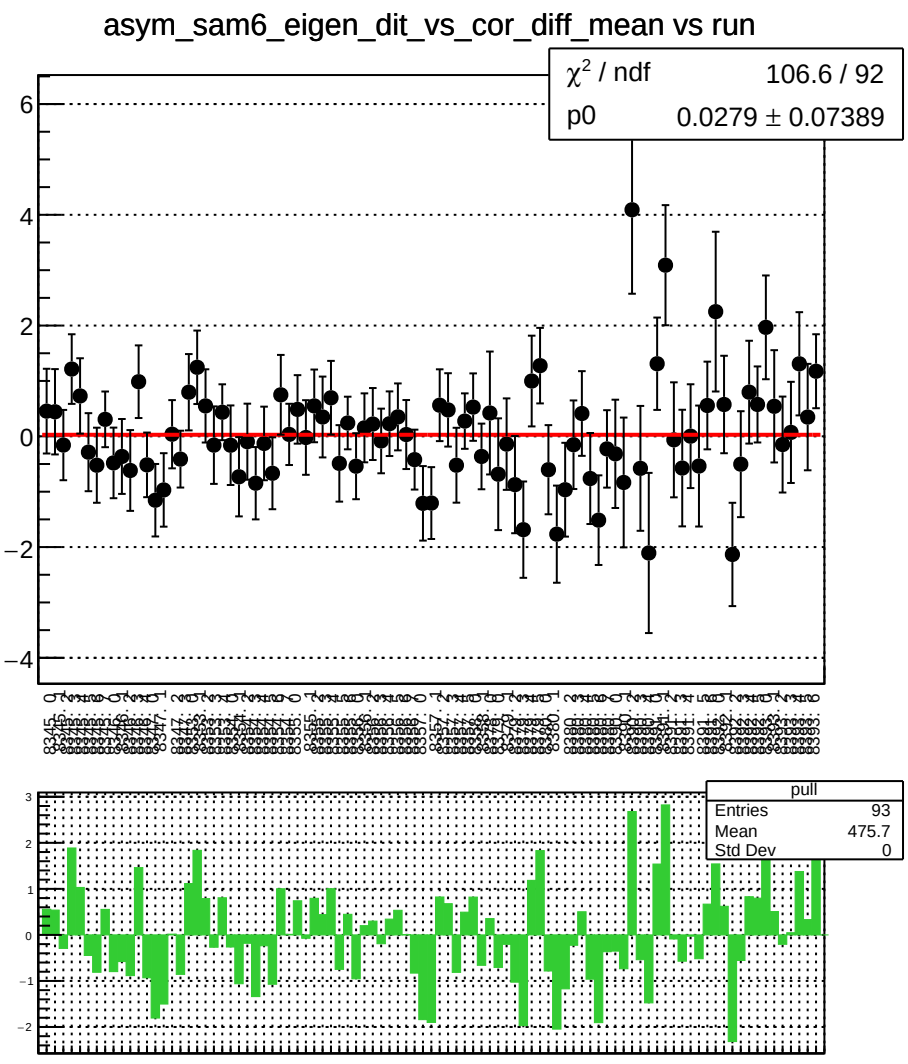

pull1D
Entries 93
Mean 0.006191
Std Dev 1.071

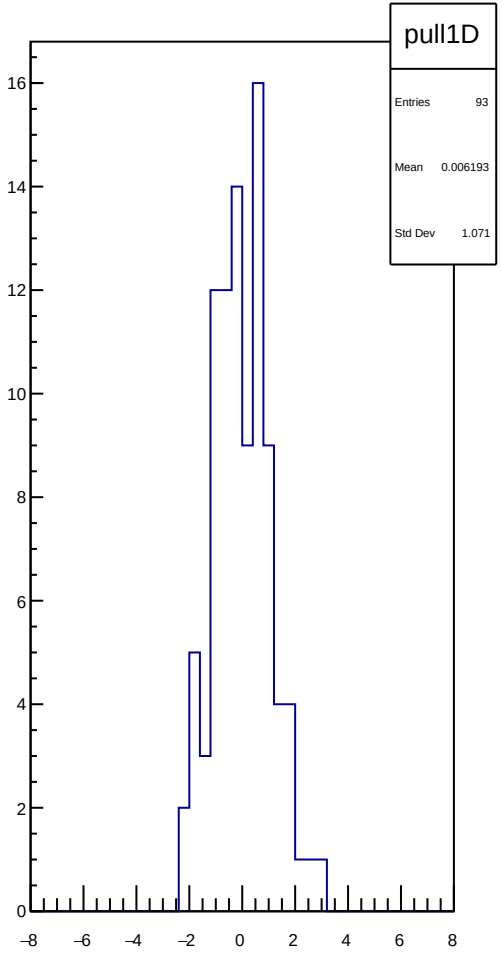

asym_sam6_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.473e+04 / 92
p0 69.2 ± 0.05225
140
120
100
80
60

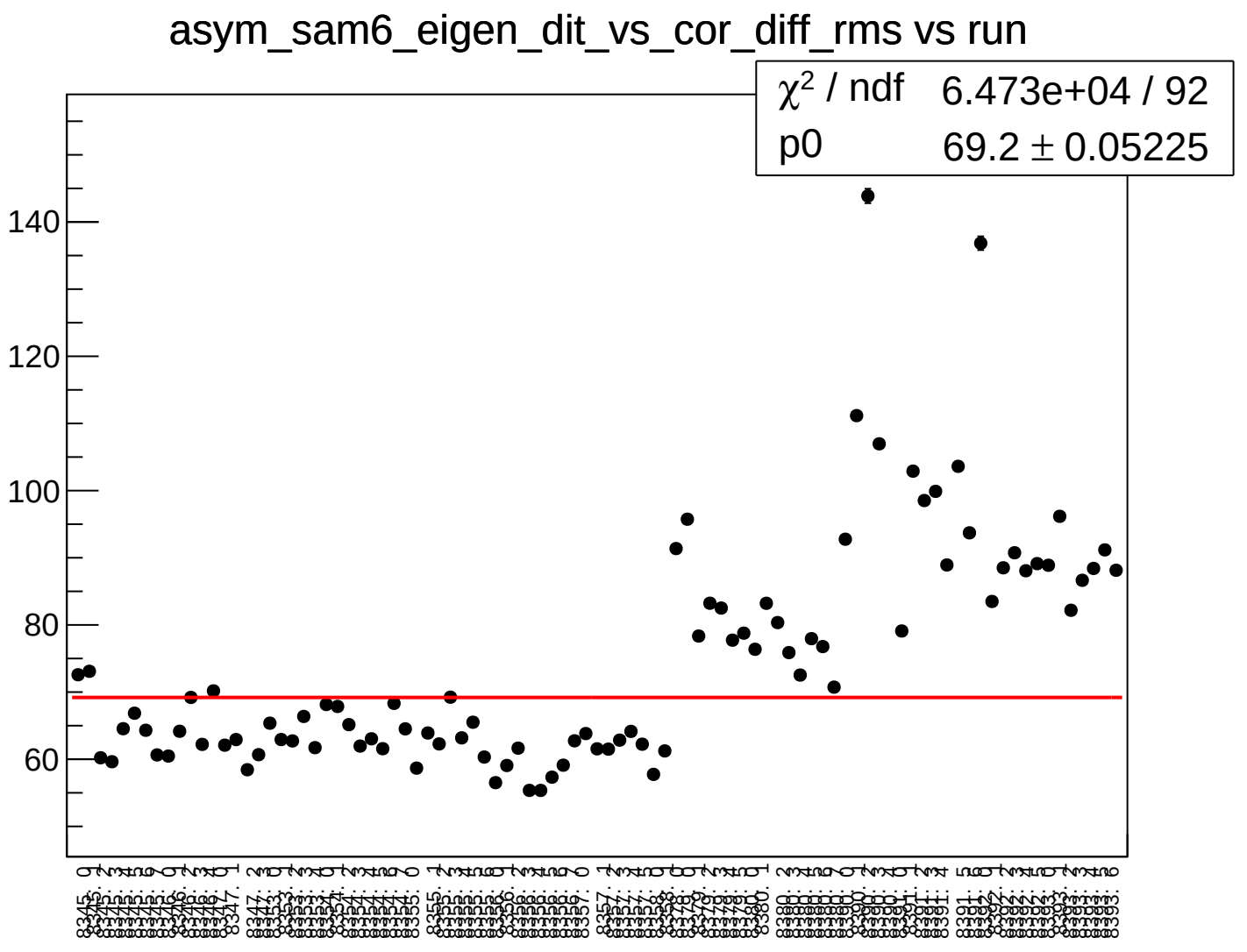

asym_sam6_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99 / 92
p0 2.686e−07 ± 2.575e−06
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 93
Mean 234.1
Std Dev 0
3
2
1
0
−1
−2

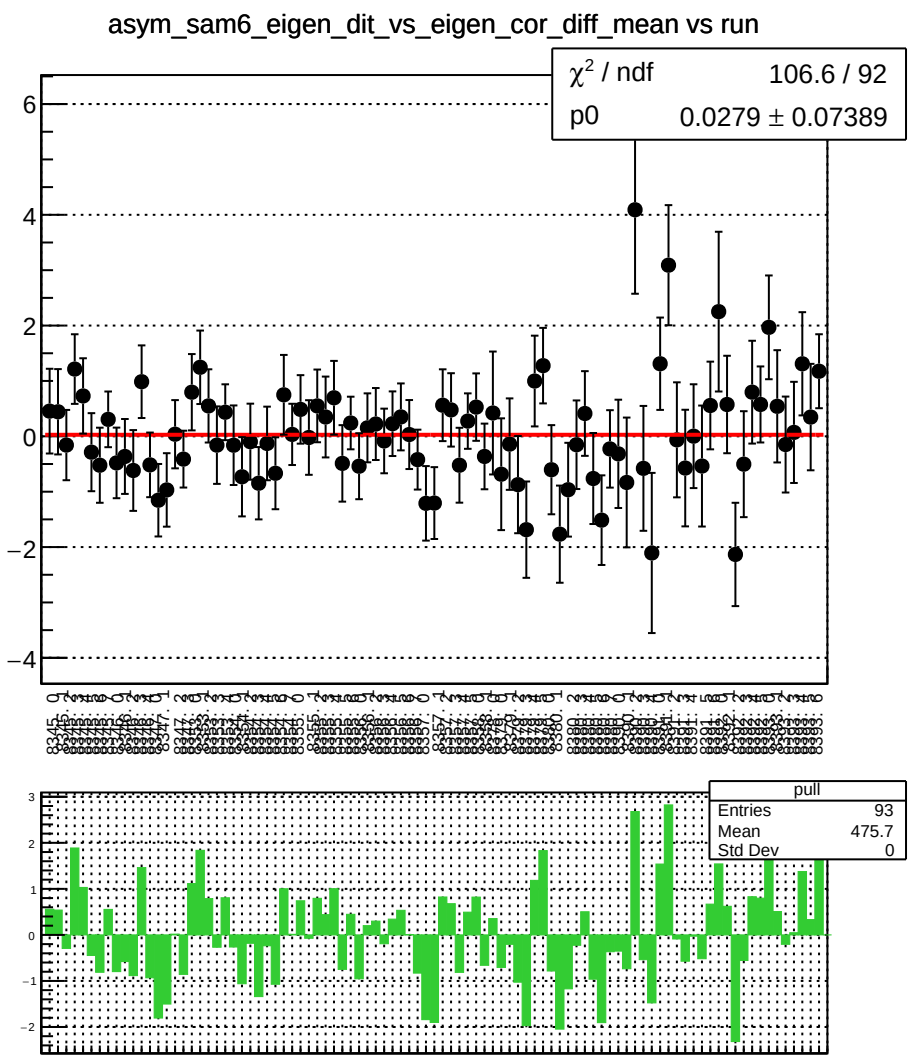

pull1D
Entries 93
Mean 0.03546
Std Dev 1.031
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

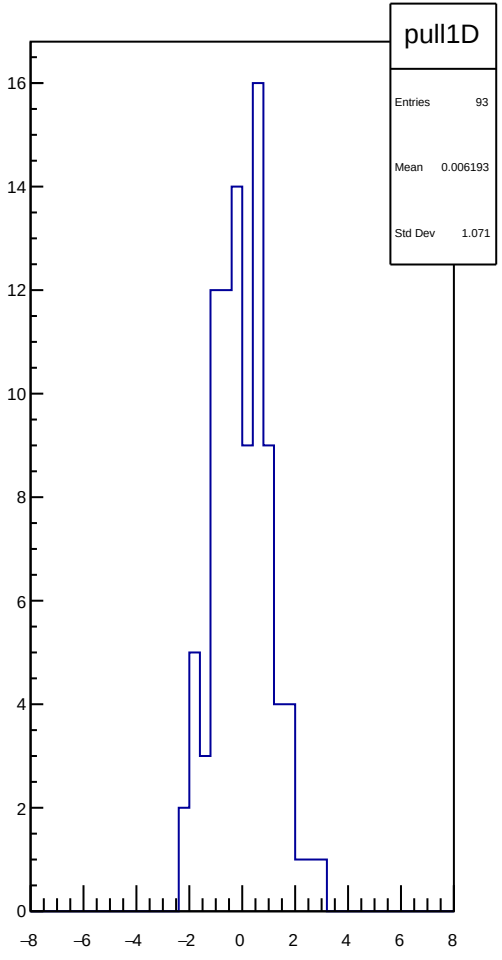

asym_sam6_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.919e+04 / 92
p0 0.002436 ± 1.821e−06
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022

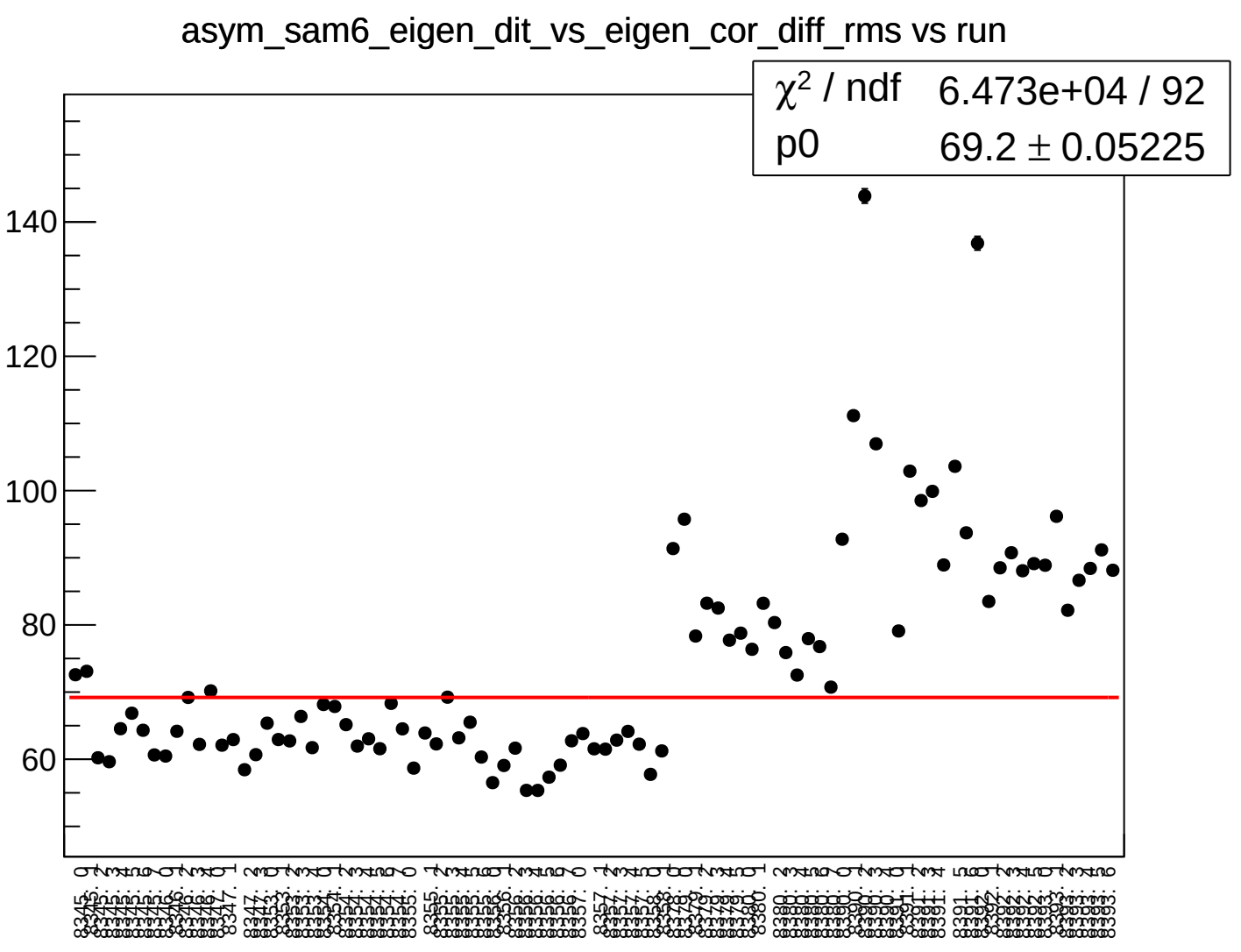

asym_sam6_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 106.6 / 92
p0 0.0279 ± 0.07389
pull
Entries 93
Mean 475.7
Std Dev 0

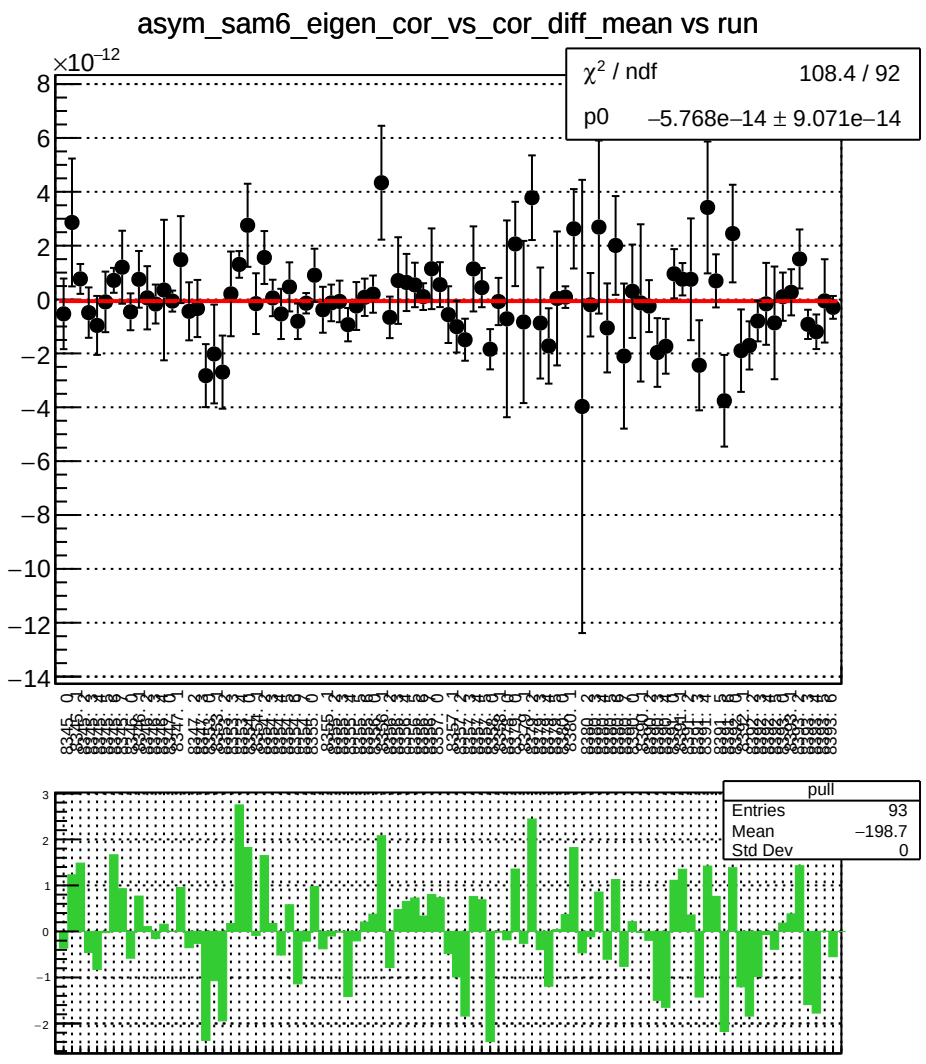

pull1D
Entries 93
Mean 0.006193
Std Dev 1.071

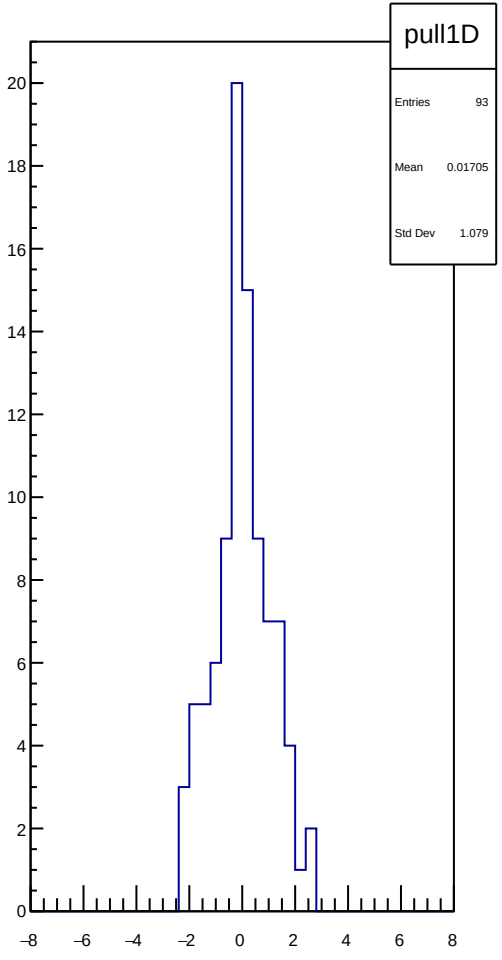

asym_sam6_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.473e+04 / 92
p0 69.2 ± 0.05225
140
120
100
80
60

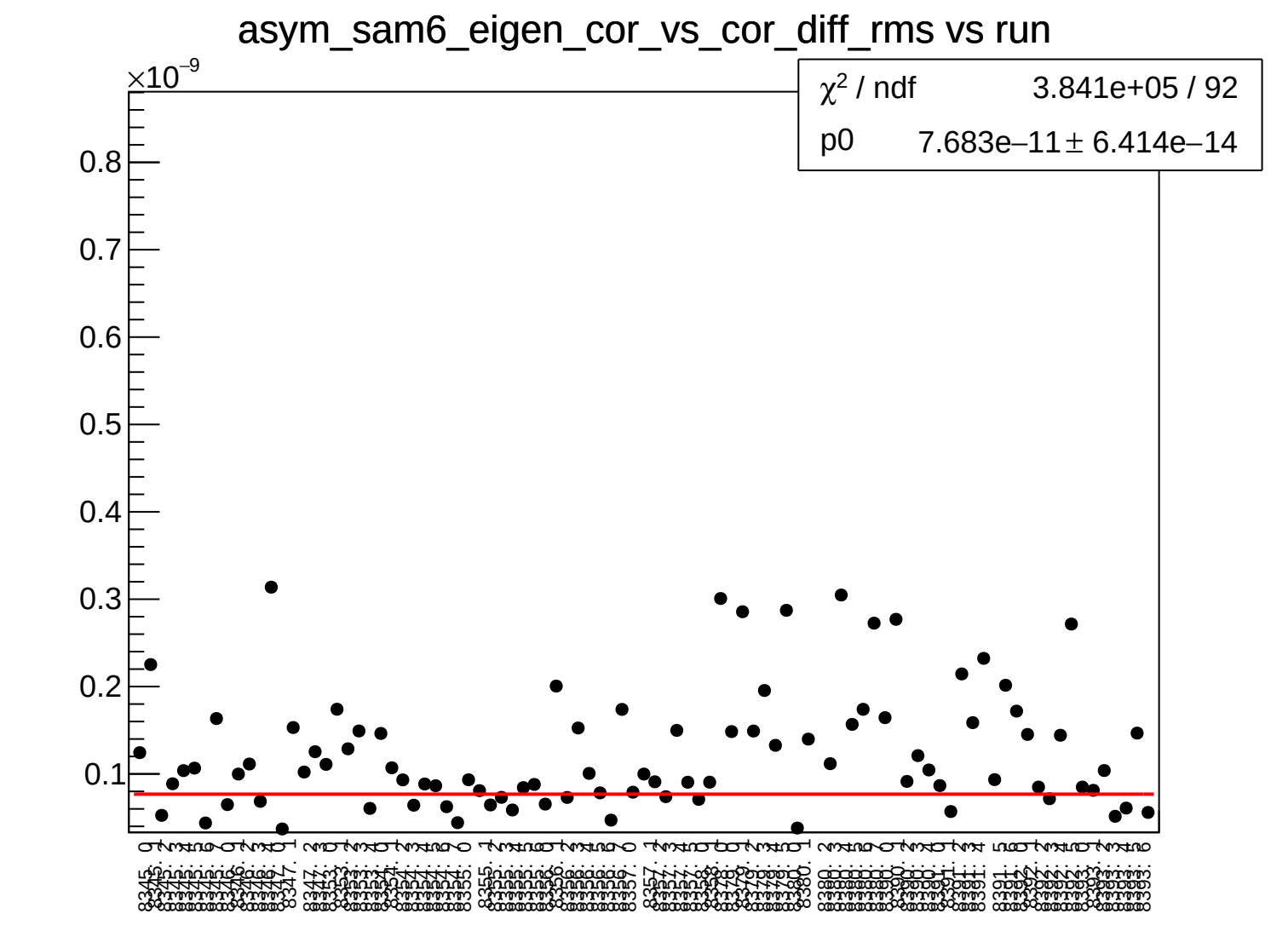

asym_sam6_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.6 / 92
p0 0.0279 ± 0.07389
pull
Entries 93
Mean 475.7
Std Dev 0

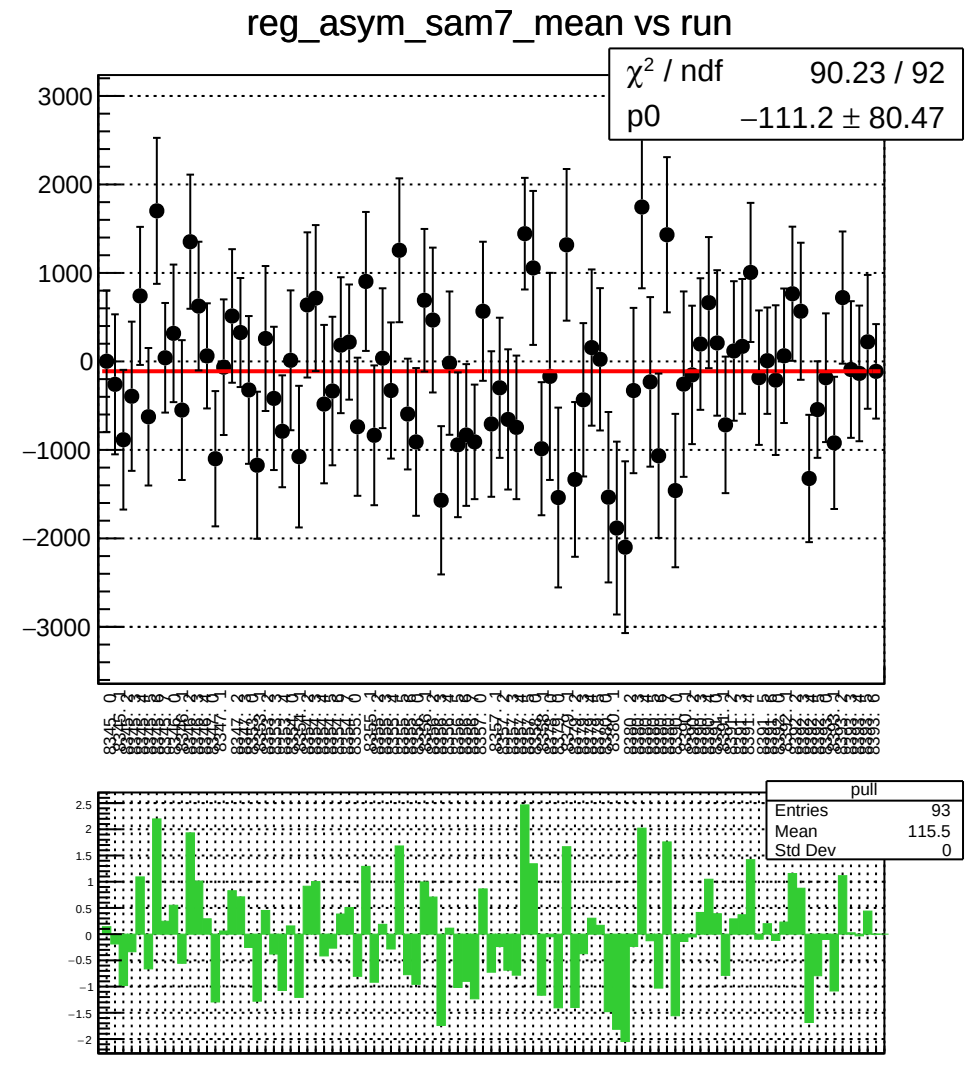

pull1D
Entries 93
Mean 0.006193
Std Dev 1.071

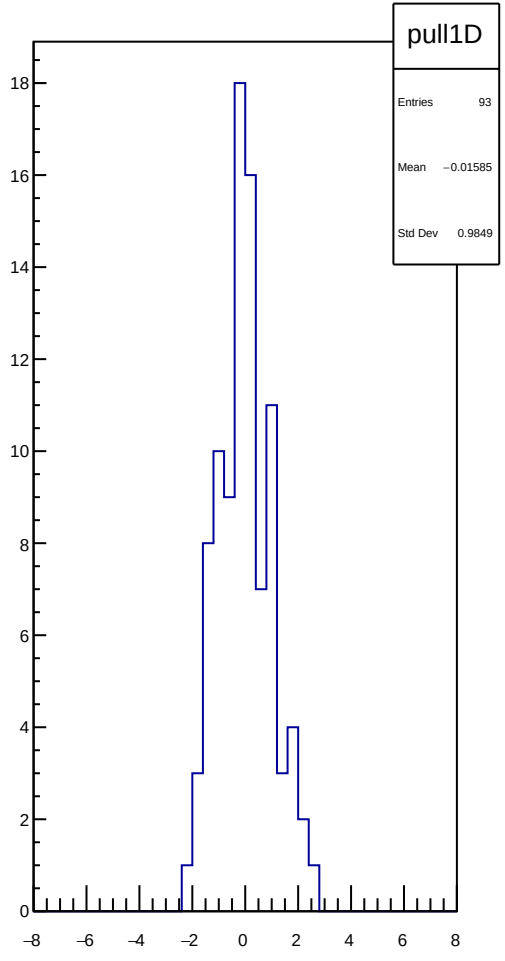

asym_sam6_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.473e+04 / 92
p0 69.2 ± 0.05225
140
120
100
80
60

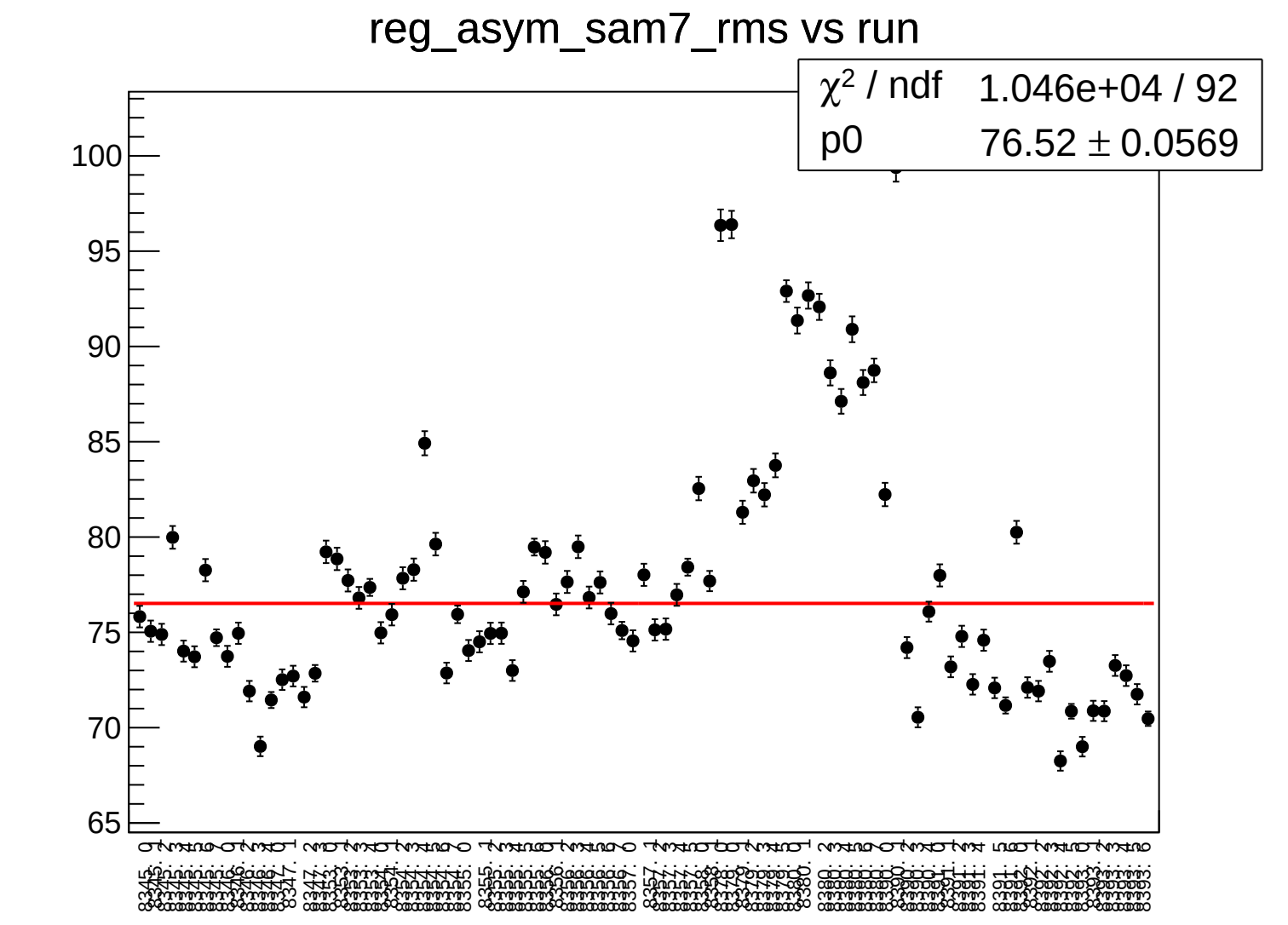

asym_sam6_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 108.4 / 92
p0 −5.768e−14 ± 9.071e−14
pull
Entries 93
Mean −198.7
Std Dev 0

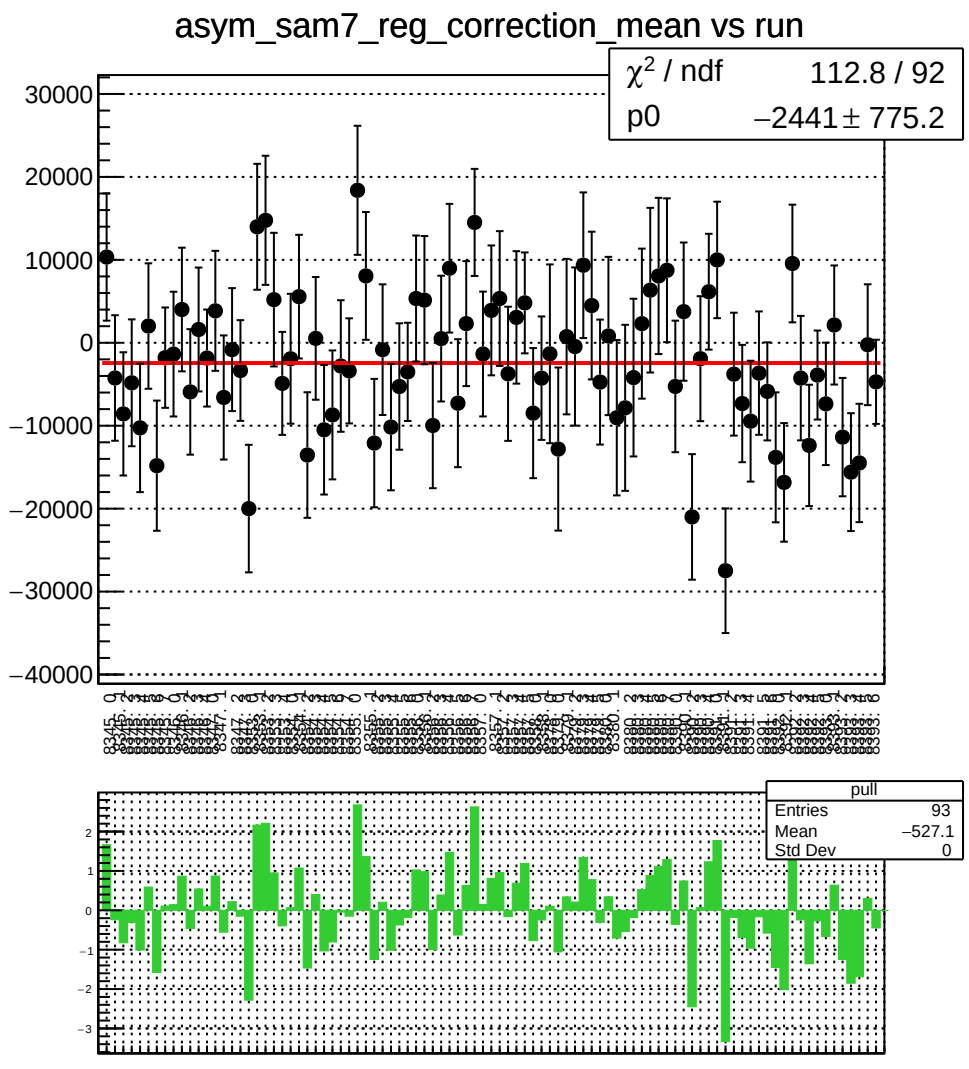

pull1D
Entries 93
Mean 0.01705
Std Dev 1.079

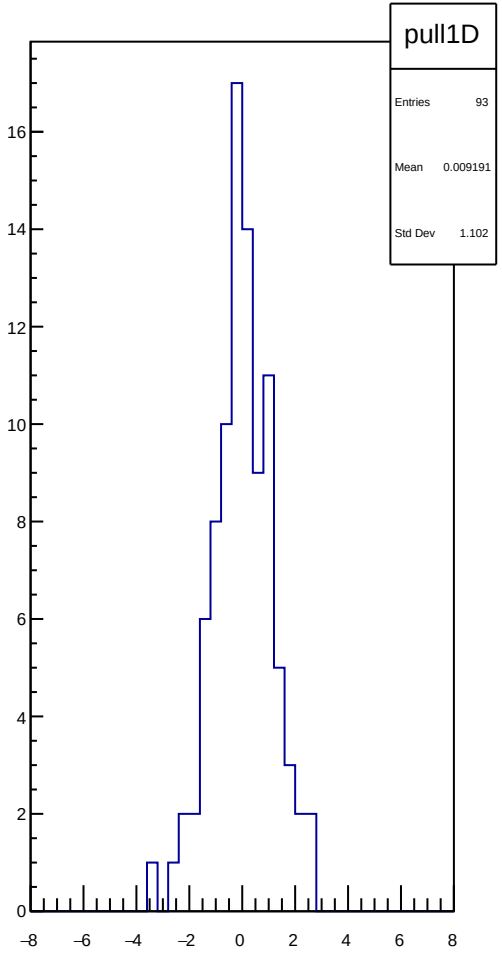

asym_sam6_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.841e+05 / 92
p0 7.683e−11 ± 6.414e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

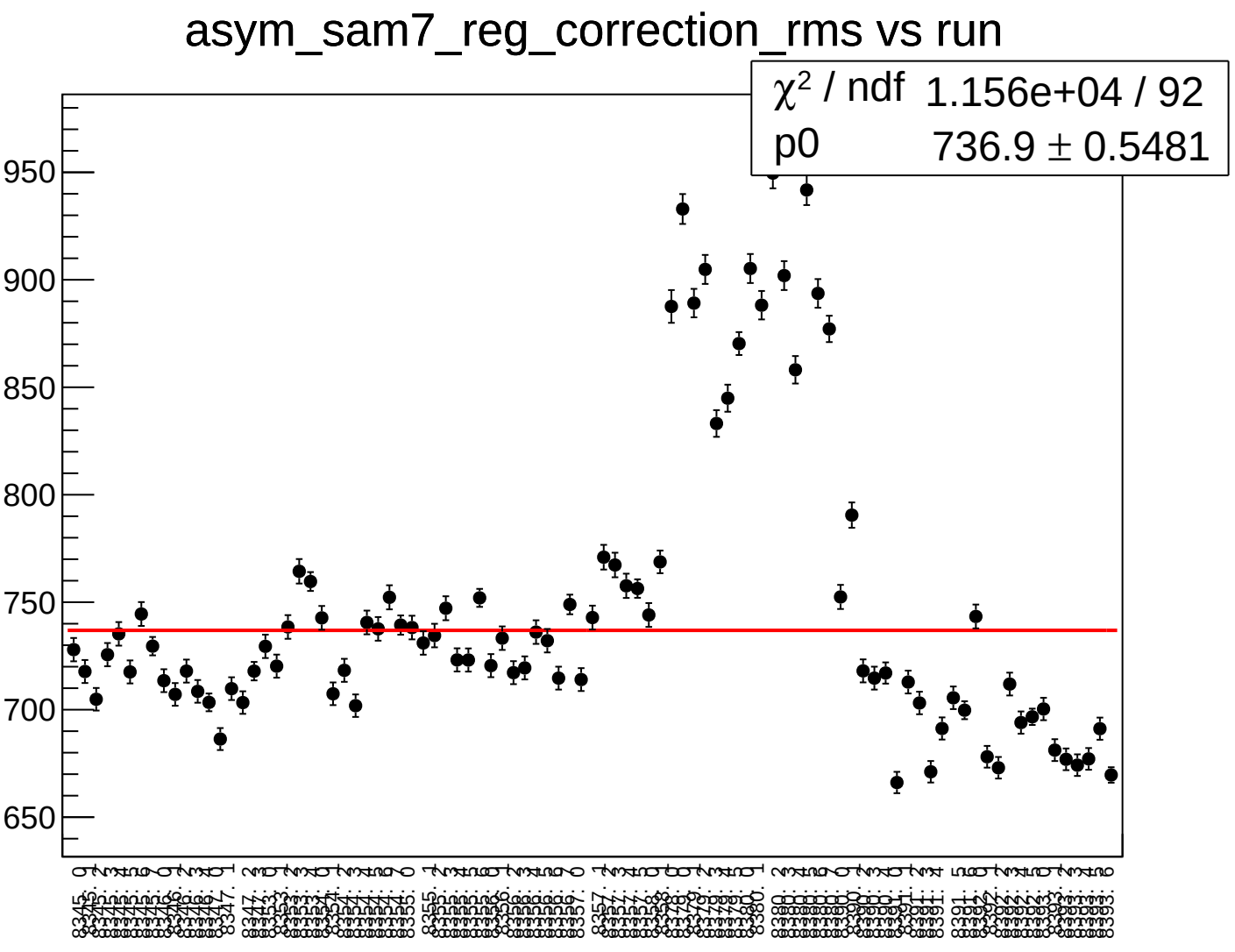

reg_asym_sam7_mean vs run
χ² / ndf 90.23 / 92
p0 −111.2 ± 80.47
pull
Entries 93
Mean 115.5
Std Dev 0

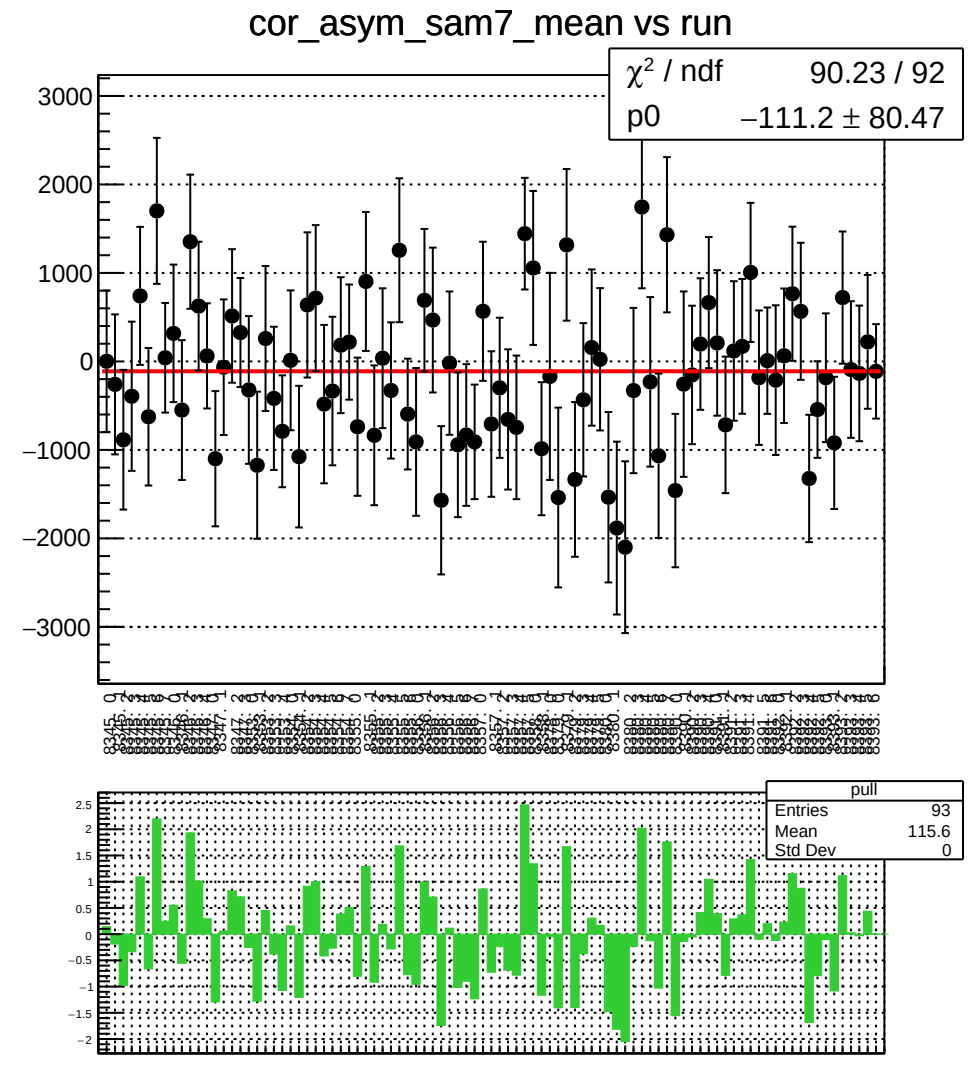

pull1D
Entries 93
Mean −0.01585
Std Dev 0.9849

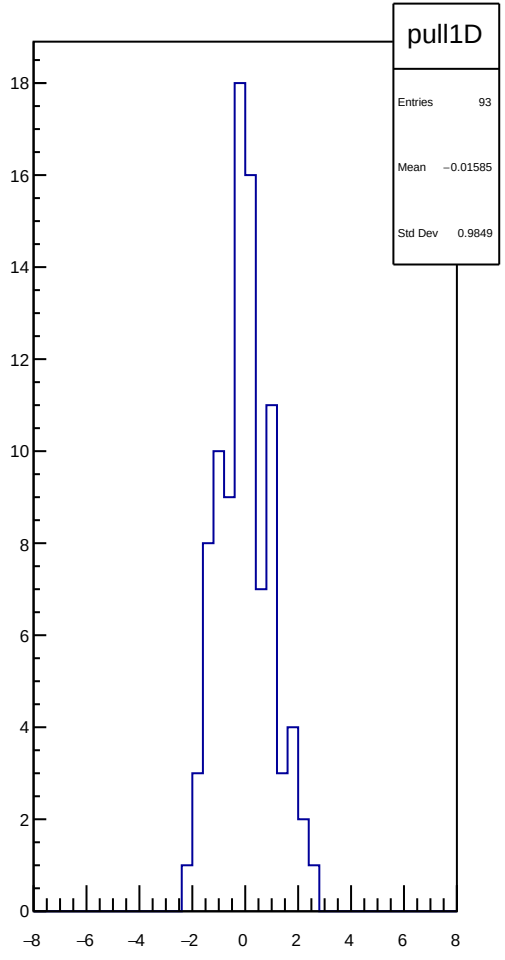

reg_asym_sam7_rms vs run
χ^2 / ndf 1.046e+04 / 92
p0 76.52 ± 0.0569
100
95
90
85
80
75
70
65

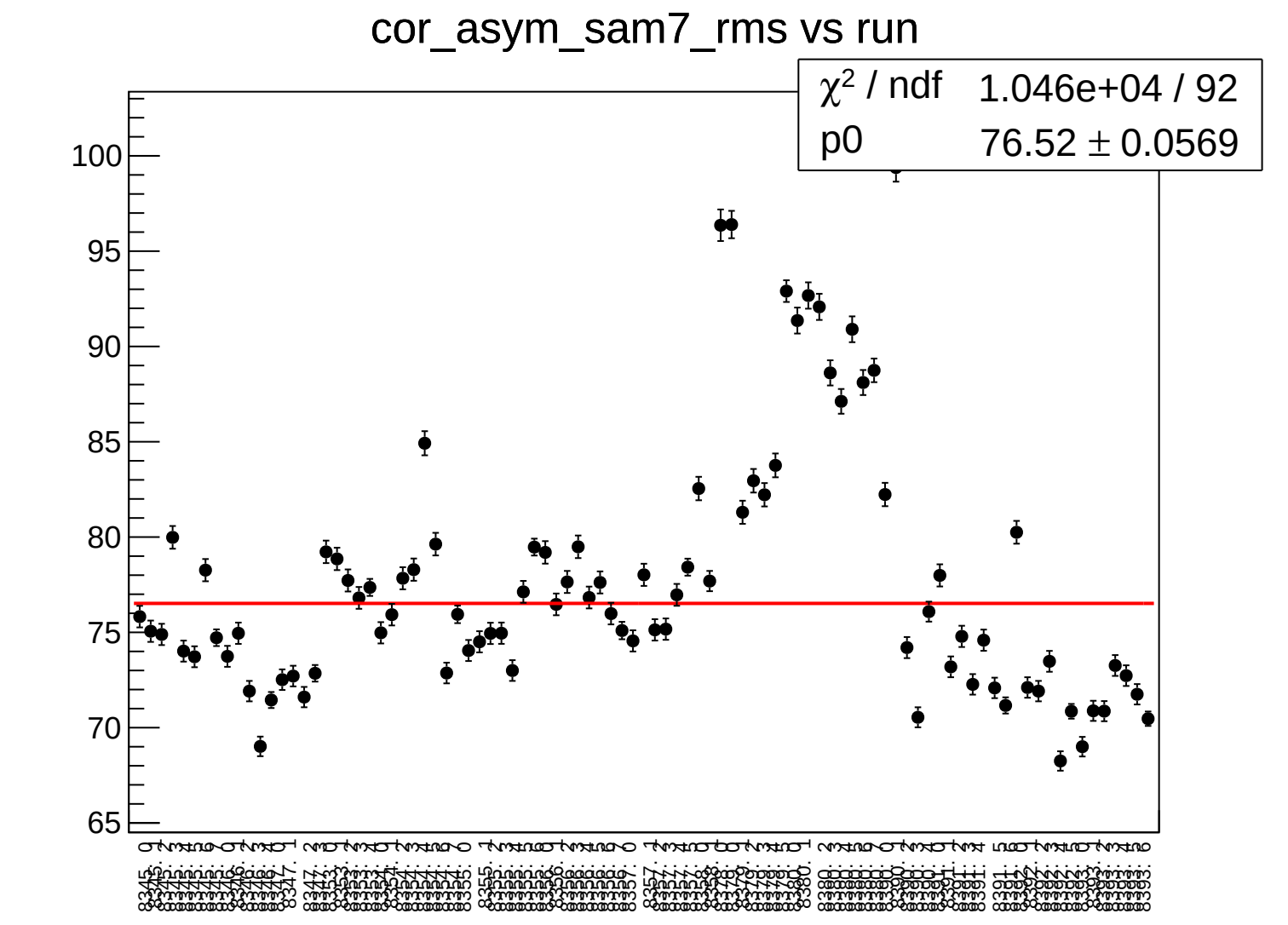

asym_sam7_reg_correction_mean vs run
χ² / ndf 112.8 / 92
p0 −2441 ± 775.2
pull
Entries 93
Mean −527.1
Std Dev 0

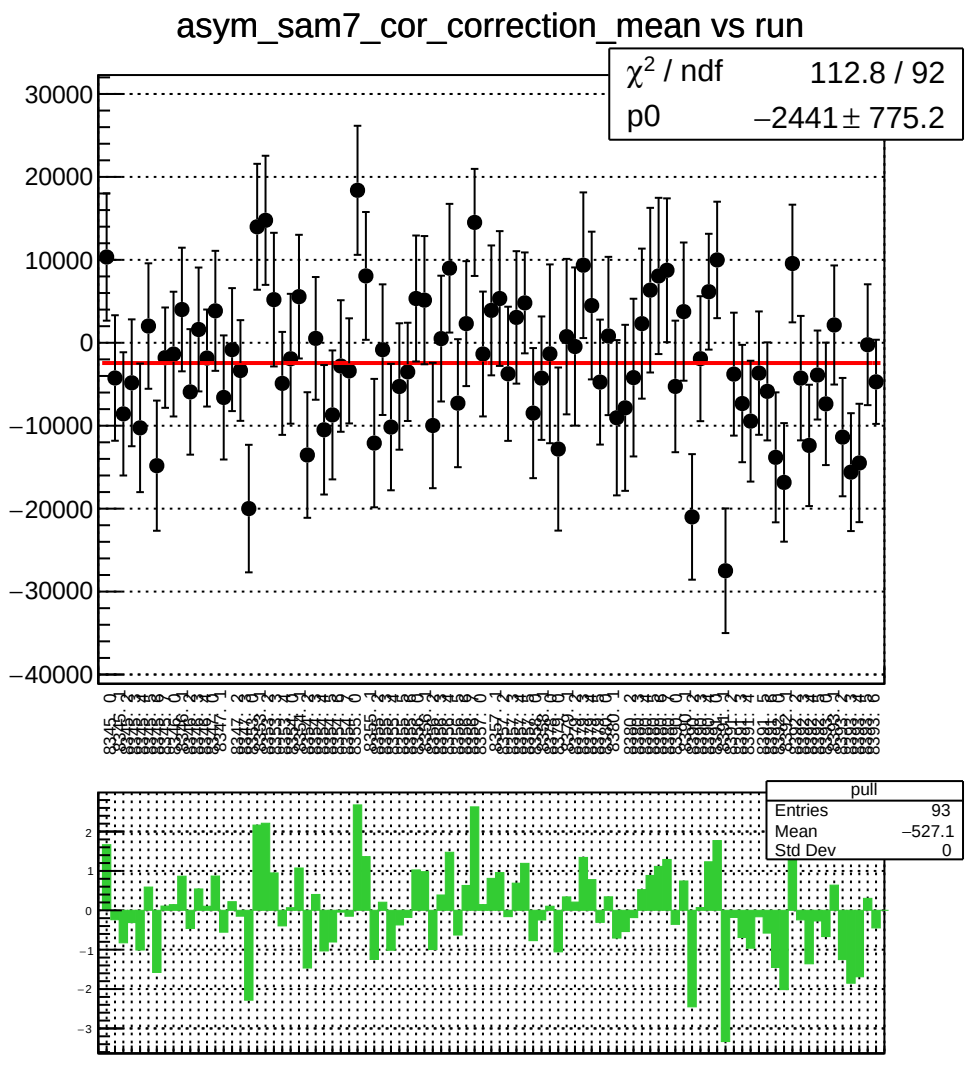

pull1D
Entries 93
Mean 0.009191
Std Dev 1.102

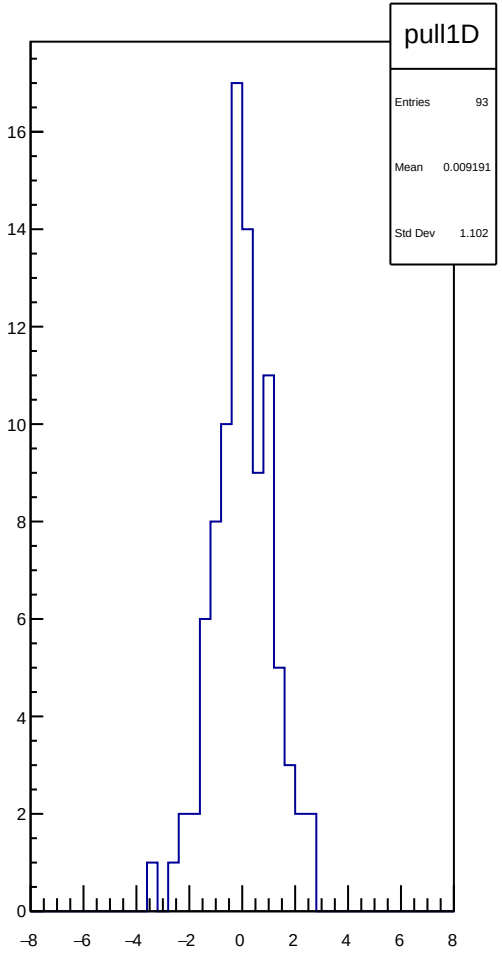

asym_sam7_reg_correction_rms vs run
χ² / ndf 1.156e+04 / 92
p0 736.9 ± 0.5481
950
900
850
800
750
700
650

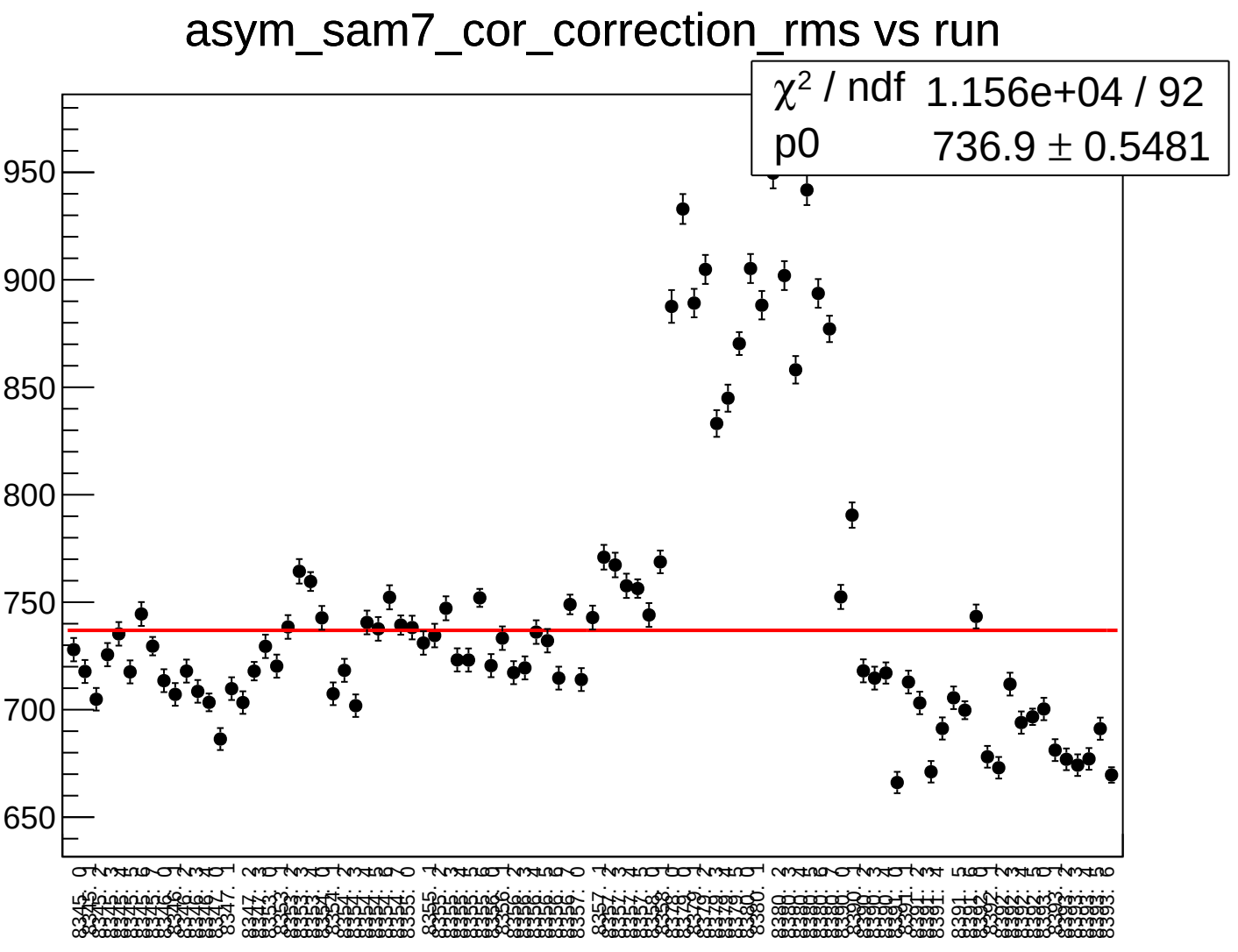

cor_asym_sam7_mean vs run
χ² / ndf 90.23 / 92
p0 −111.2 ± 80.47
pull
Entries 93
Mean 115.6
Std Dev 0

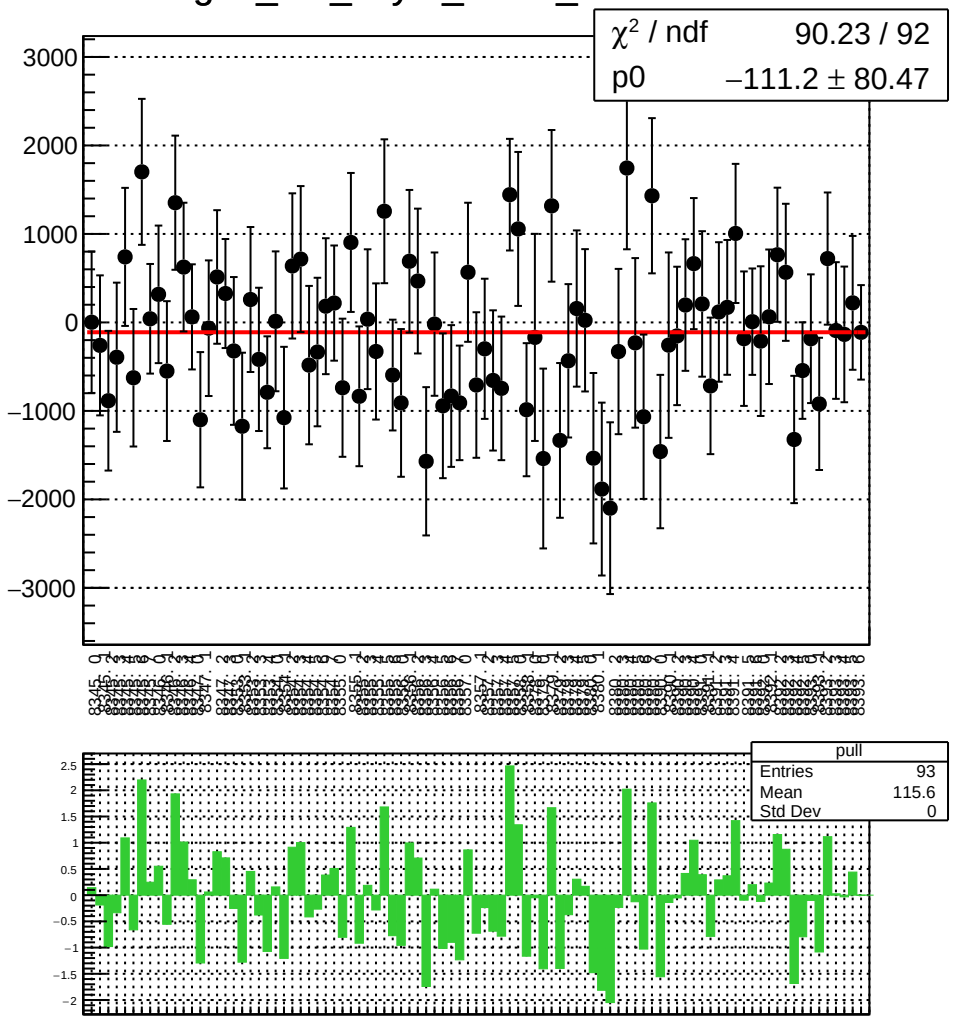

pull1D
Entries 93
Mean −0.01585
Std Dev 0.9849

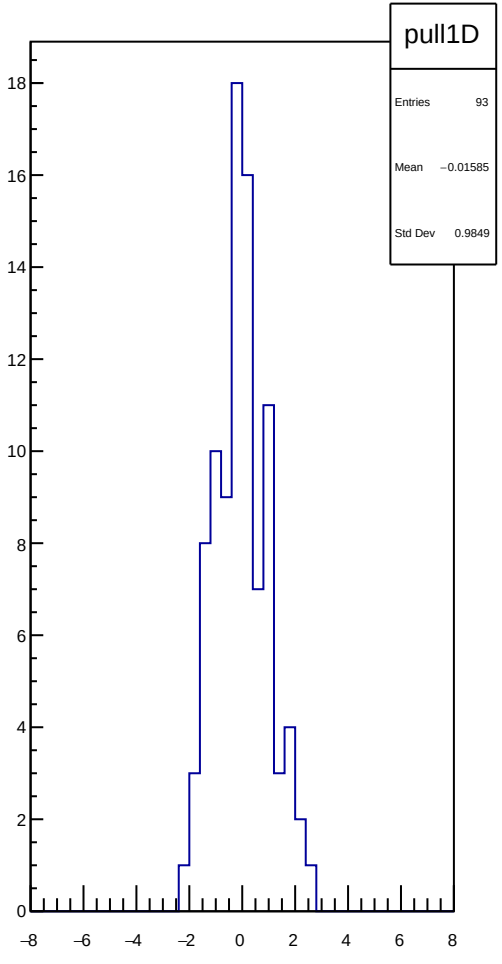

cor_asym_sam7_rms vs run
χ² / ndf 1.046e+04 / 92
p0 76.52 ± 0.0569
100
95
90
85
80
75
70
65

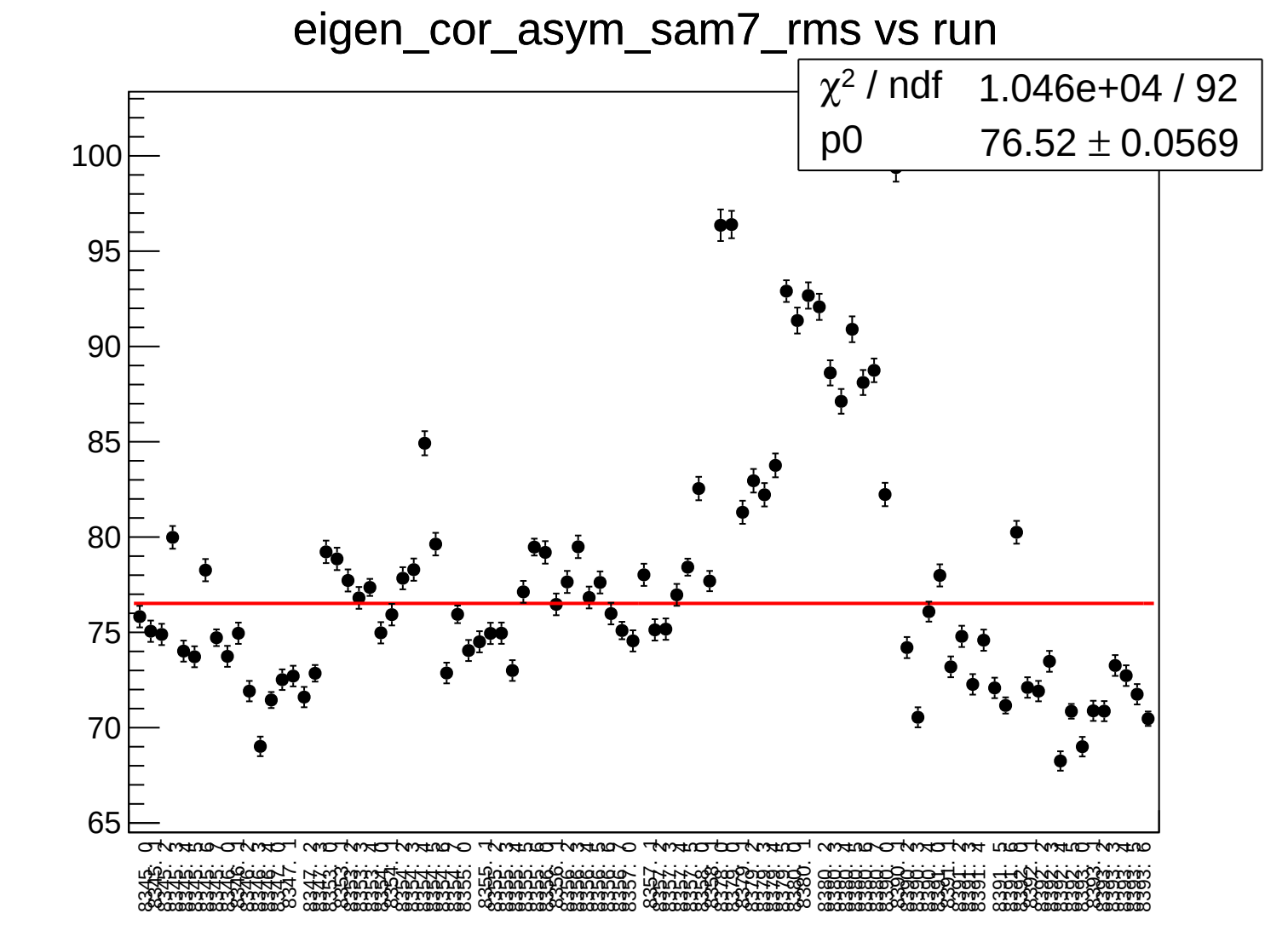

asym_sam7_cor_correction_mean vs run
χ² / ndf 112.8 / 92
p0 −2441 ± 775.2
pull
Entries 93
Mean −527.1
Std Dev 0

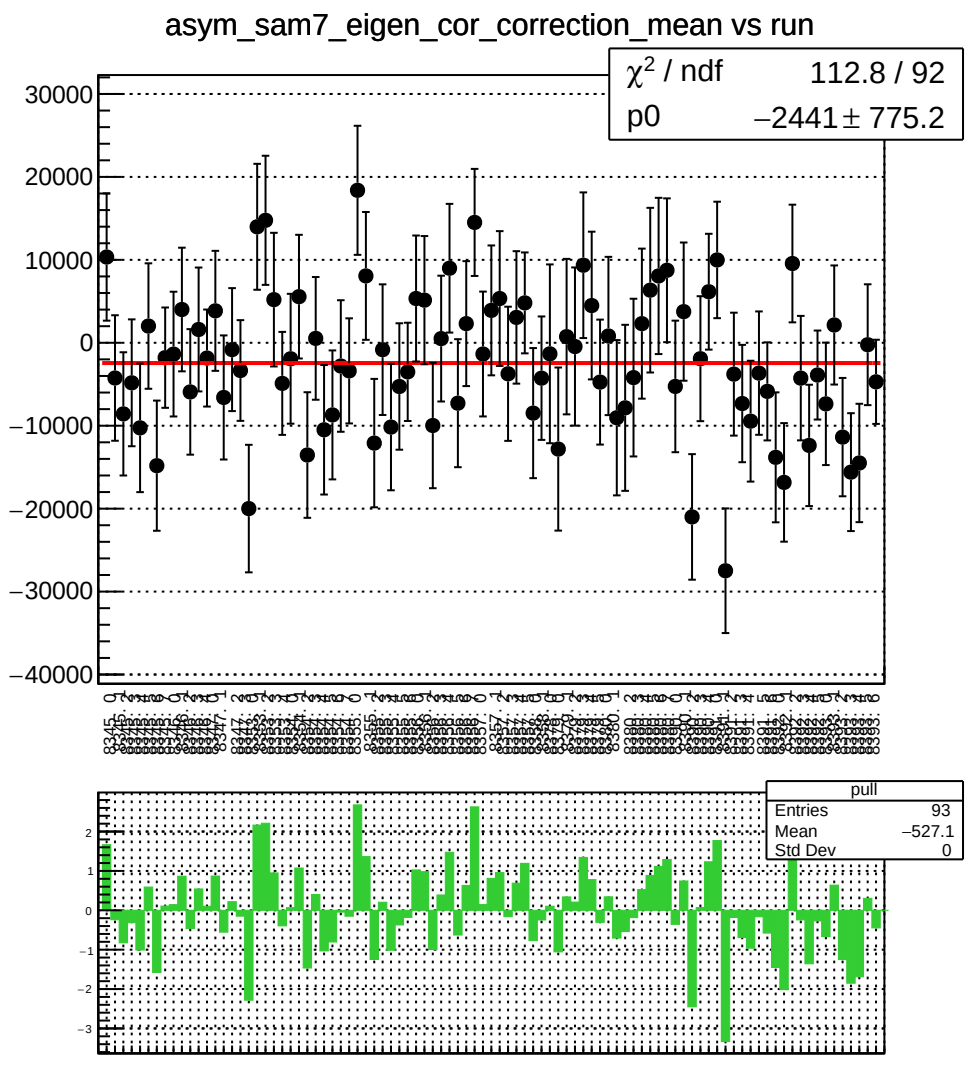

pull1D
Entries 93
Mean 0.009191
Std Dev 1.102

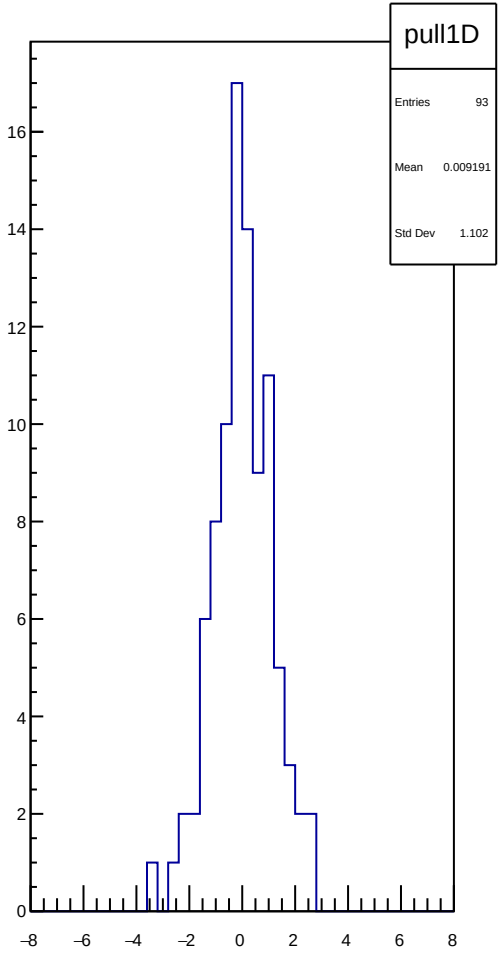

asym_sam7_cor_correction_rms vs run
χ² / ndf 1.156e+04 / 92
p0 736.9 ± 0.5481
950
900
850
800
750
700
650

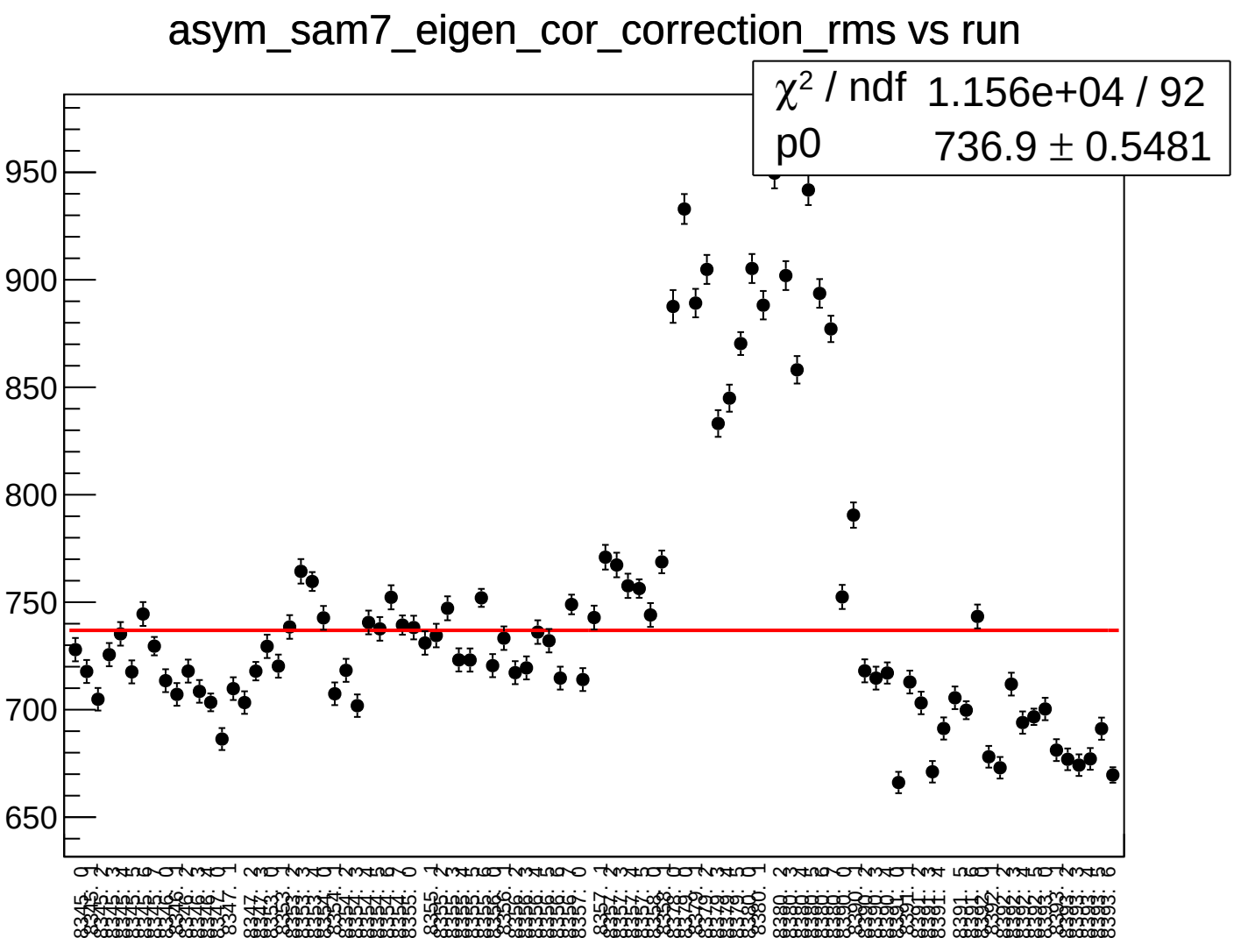

eigen_cor_asym_sam7_mean vs run
χ² / ndf 90.23 / 92
p0 −111.2 ± 80.47
pull
Entries 93
Mean 115.6
Std Dev 0

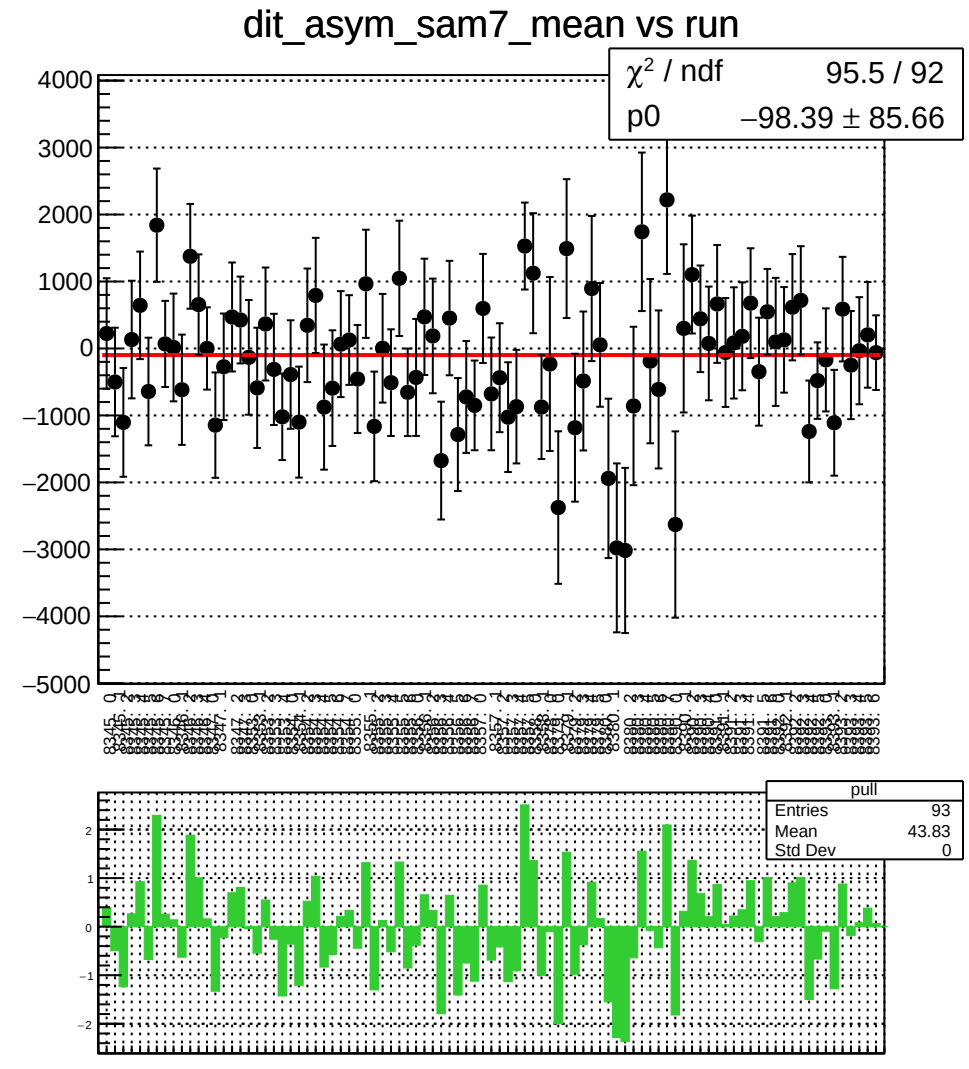

pull1D
Entries 93
Mean −0.01585
Std Dev 0.9849

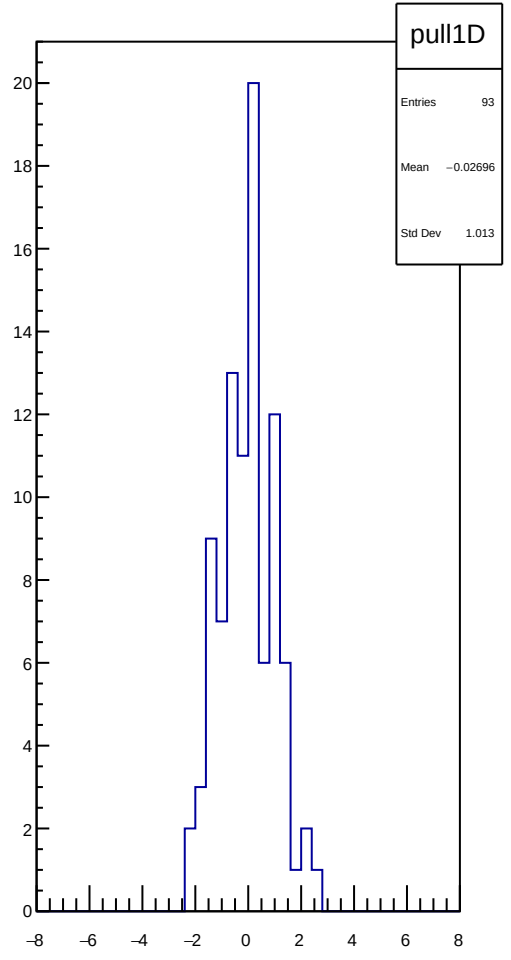

eigen_cor_asym_sam7_rms vs run
χ² / ndf 1.046e+04 / 92
p0 76.52 ± 0.0569
100
95
90
85
80
75
70
65

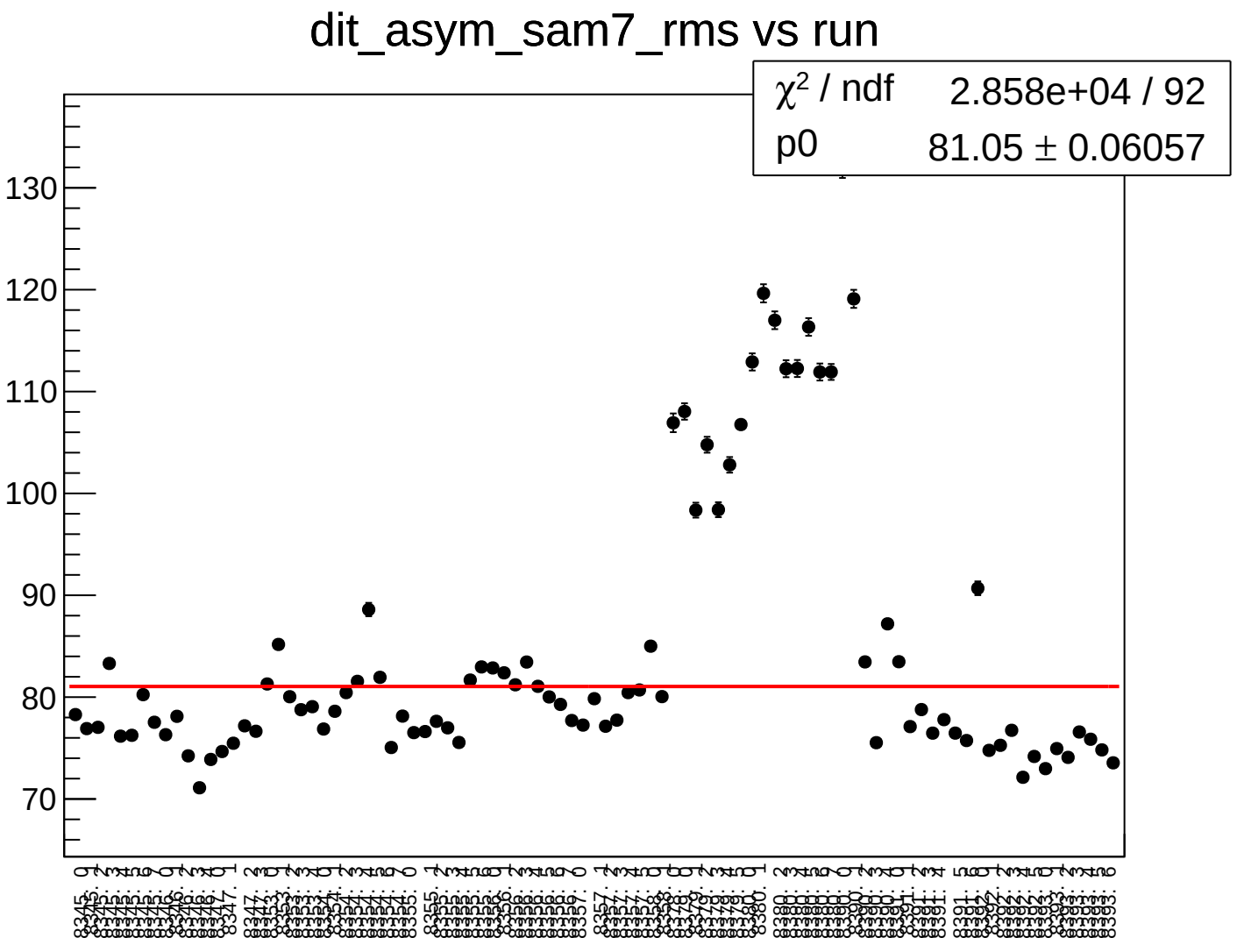

asym_sam7_eigen_cor_correction_mean vs run
χ² / ndf 112.8 / 92
p0 −2441 ± 775.2
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean −527.1
Std Dev 0
2
1
0
−1
−2
−3

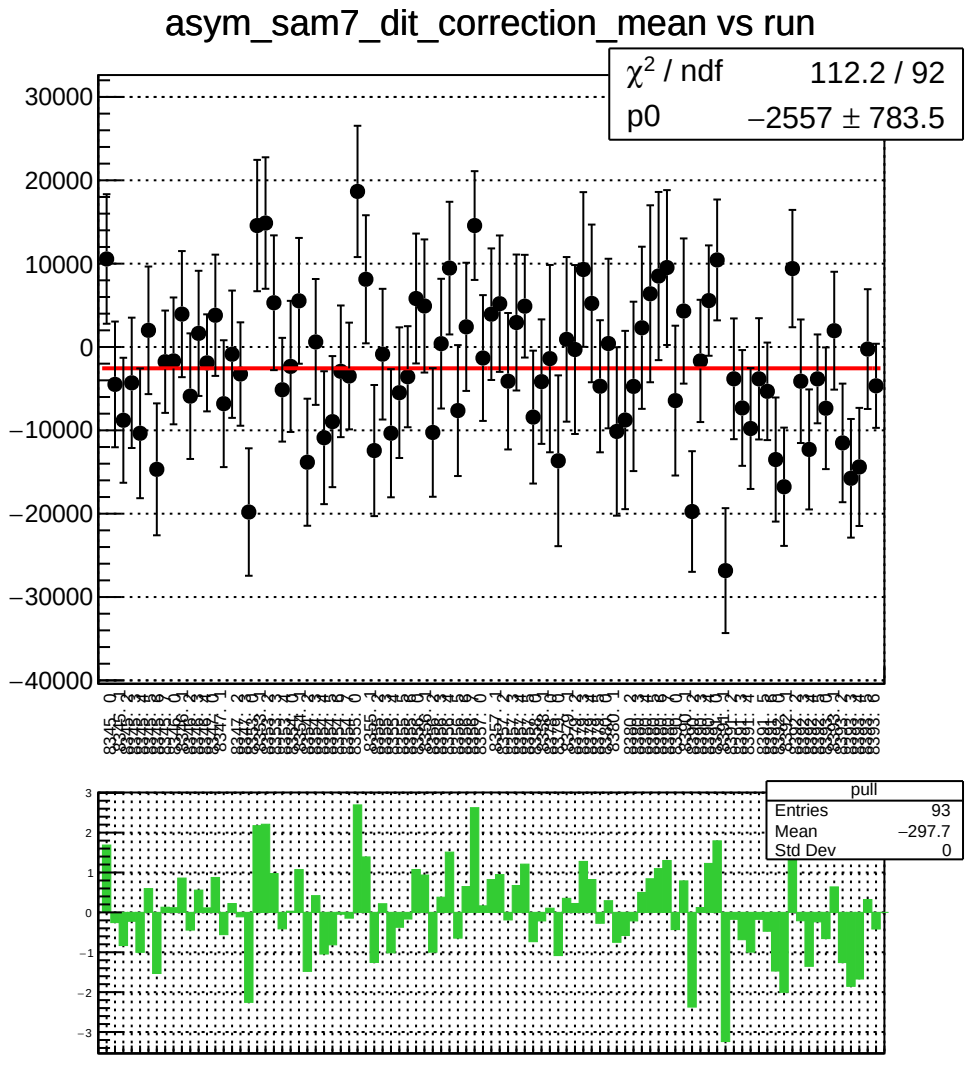

pull1D
Entries 93
Mean 0.009191
Std Dev 1.102
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

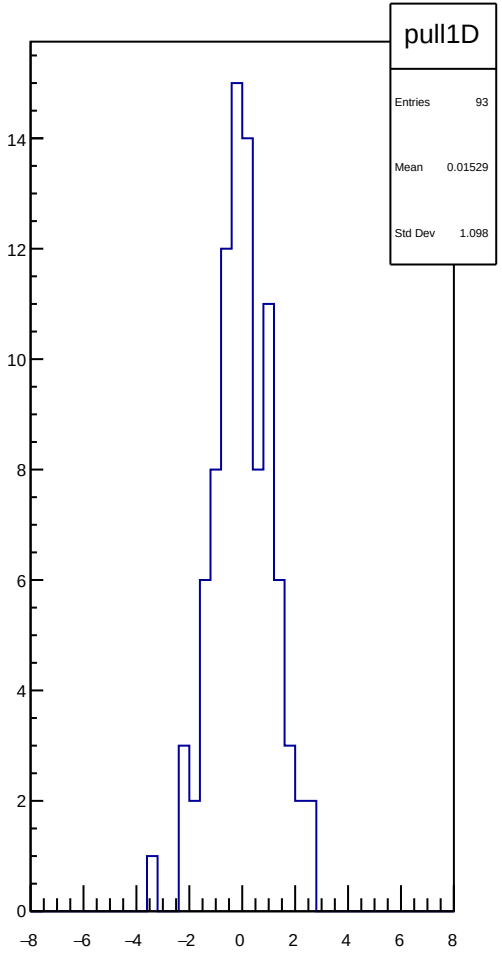

asym_sam7_eigen_cor_correction_rms vs run
χ² / ndf 1.156e+04 / 92
p0 736.9 ± 0.5481
950
900
850
800
750
700
650

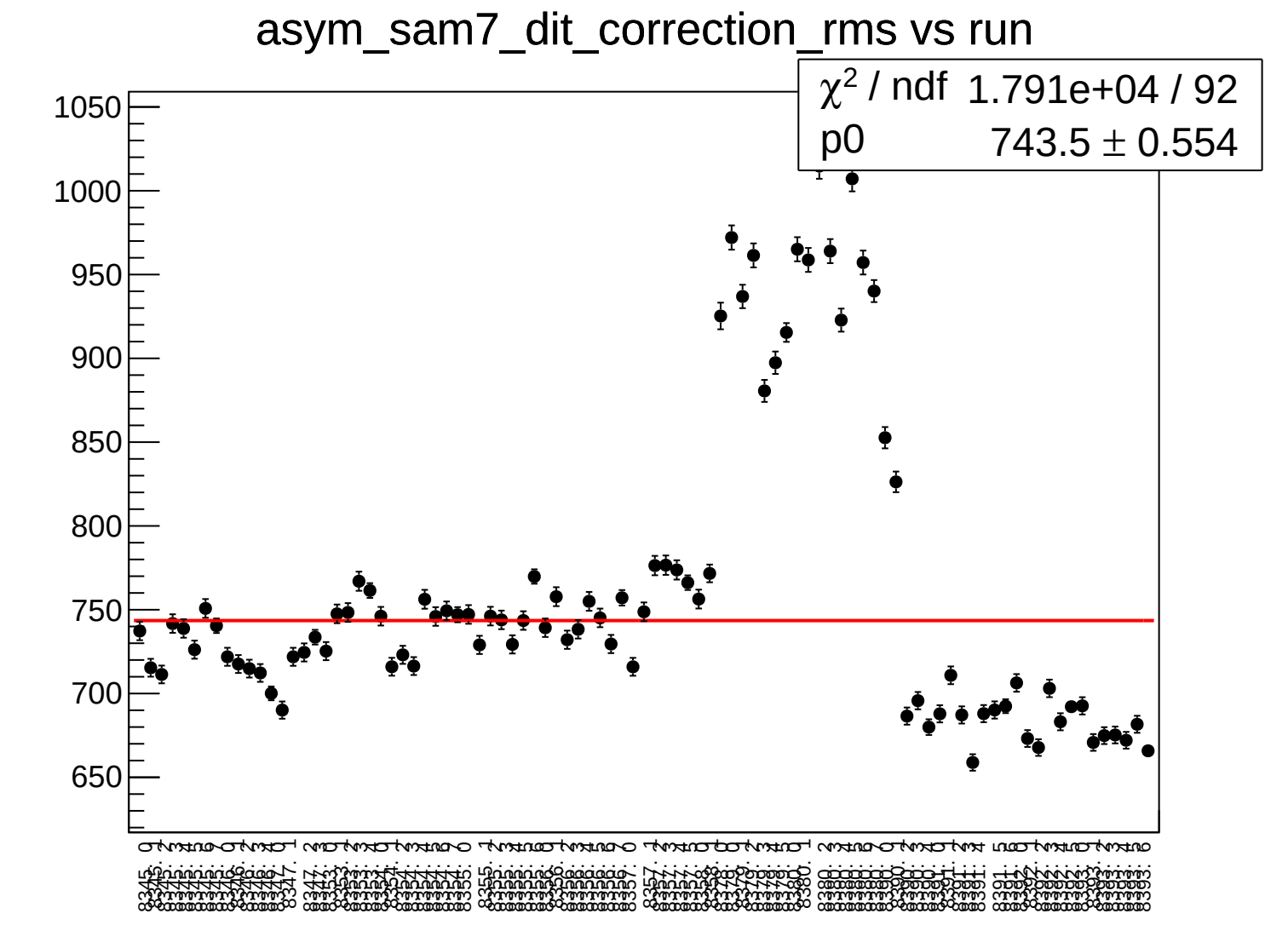

dit_asym_sam7_mean vs run
χ² / ndf 95.5 / 92
p0 −98.39 ± 85.66
pull
Entries 93
Mean 43.83
Std Dev 0

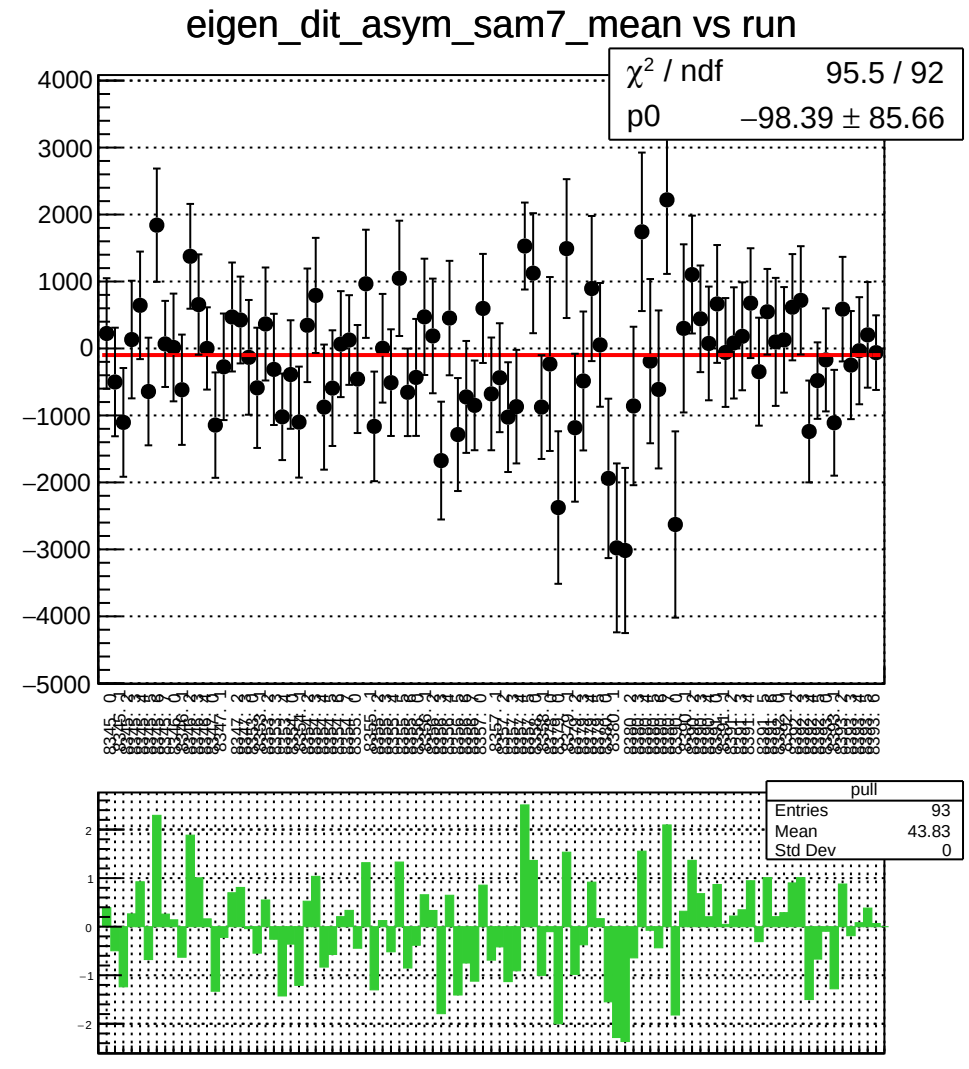

pull1D
Entries 93
Mean −0.02696
Std Dev 1.013

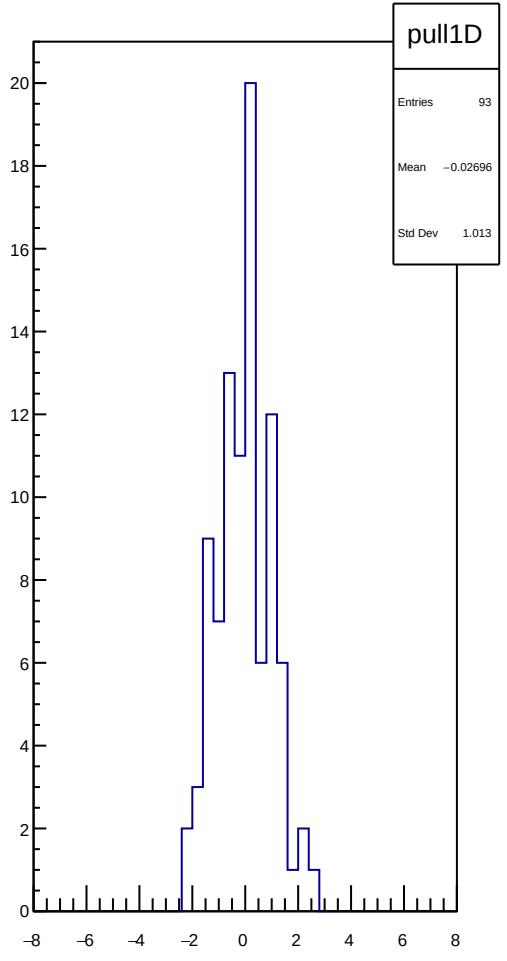

dit_asym_sam7_rms vs run
χ^2 / ndf 2.858e+04 / 92
p0 81.05 ± 0.06057
130
120
110
100
90
80
70

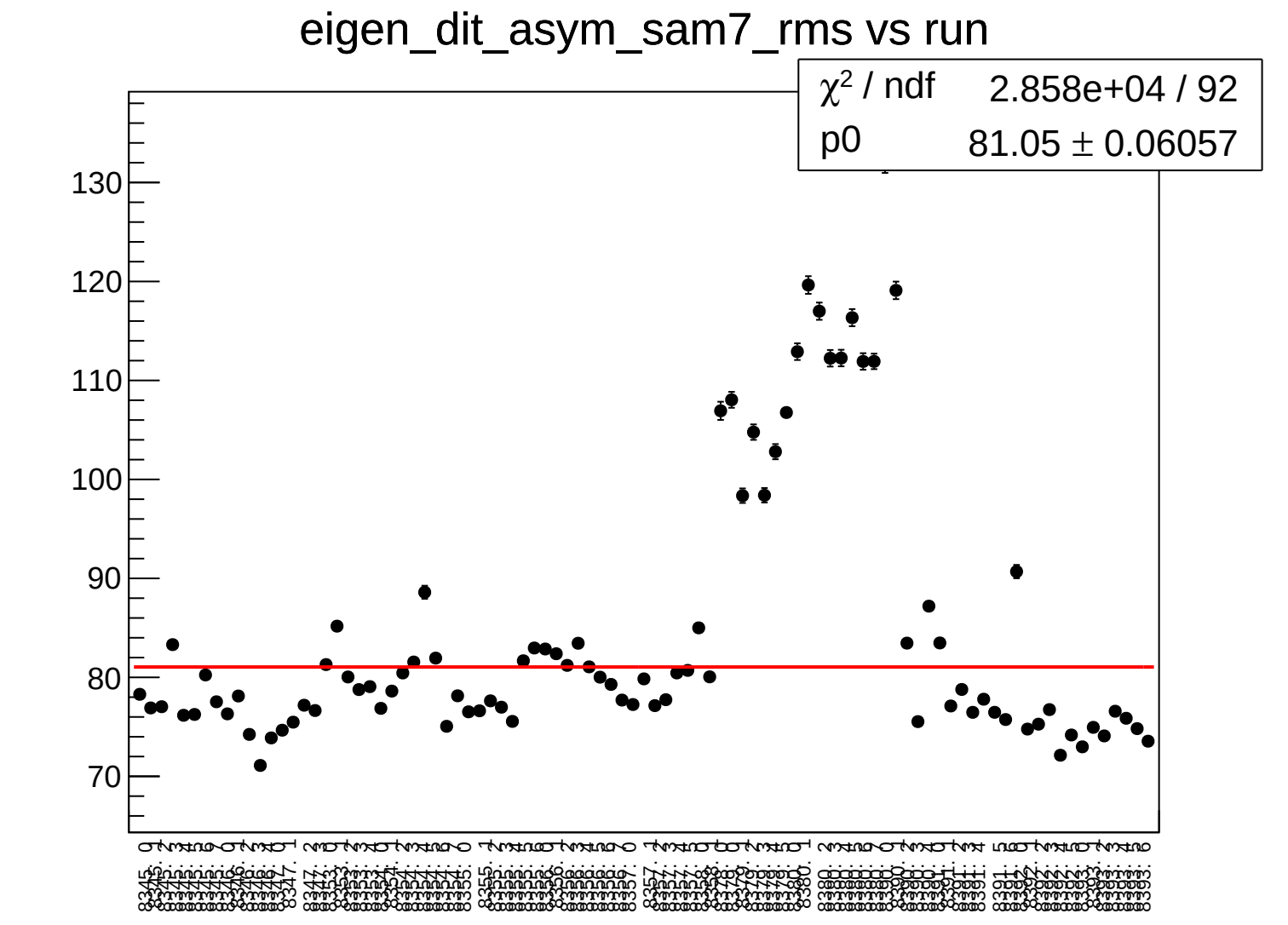

asym_sam7_dit_correction_mean vs run
χ² / ndf 112.2 / 92
p0 −2557 ± 783.5
pull
Entries 93
Mean −297.7
Std Dev 0

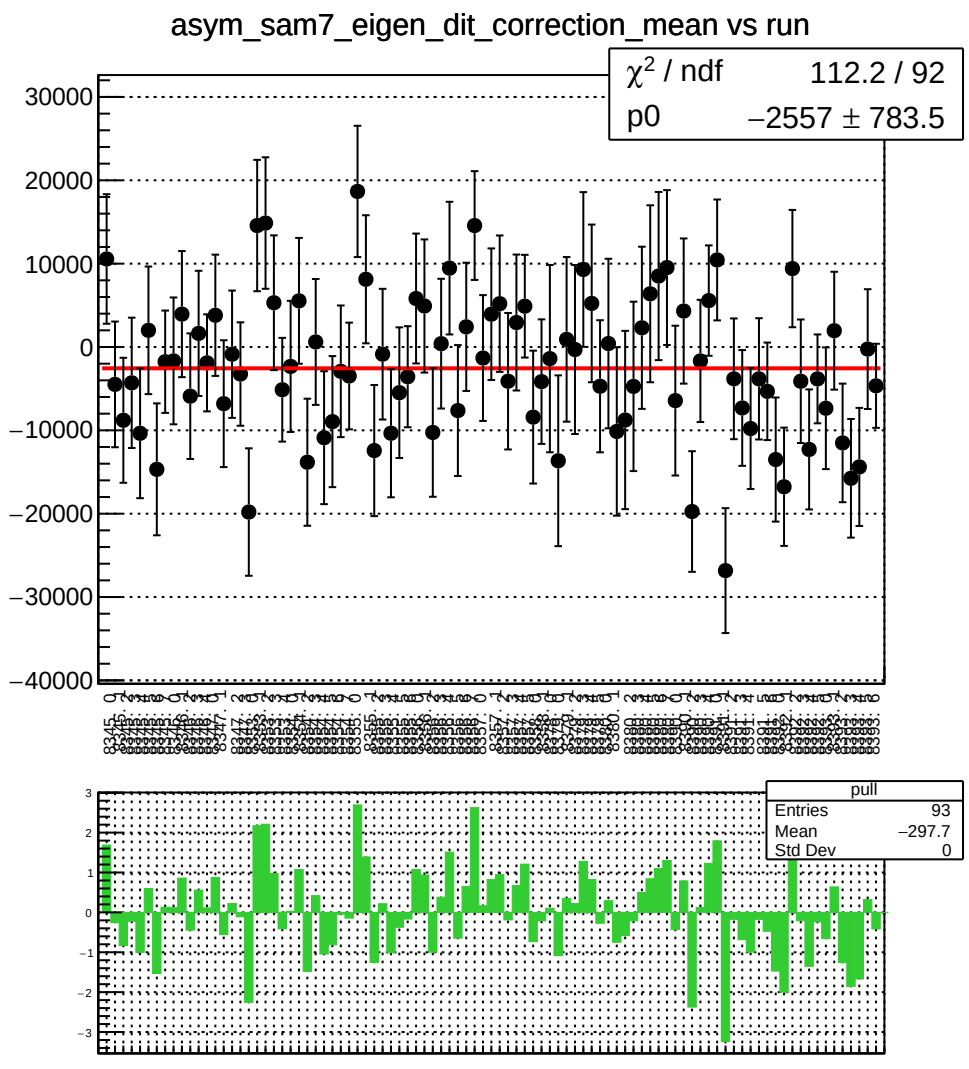

pull1D
Entries 93
Mean 0.01529
Std Dev 1.098

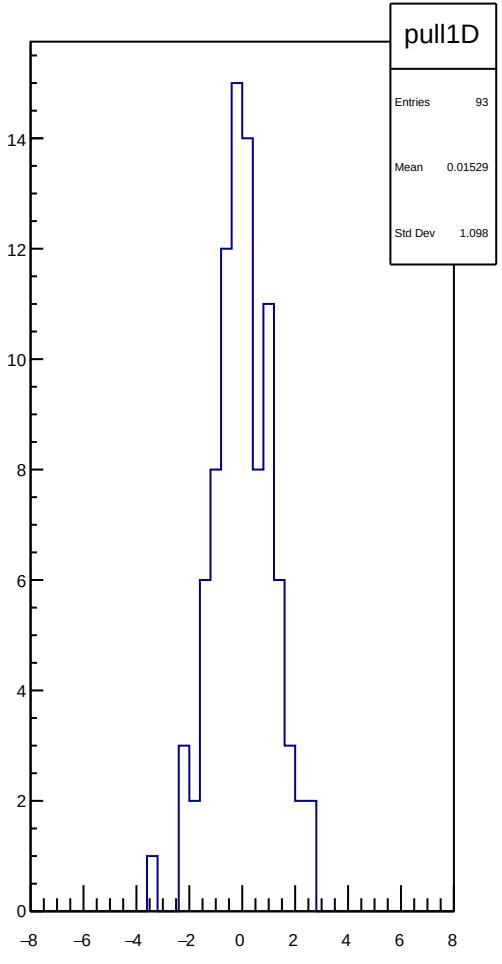

asym_sam7_dit_correction_rms vs run
χ² / ndf 1.791e+04 / 92
p0 743.5 ± 0.554
1050
1000
950
900
850
800
750
700
650

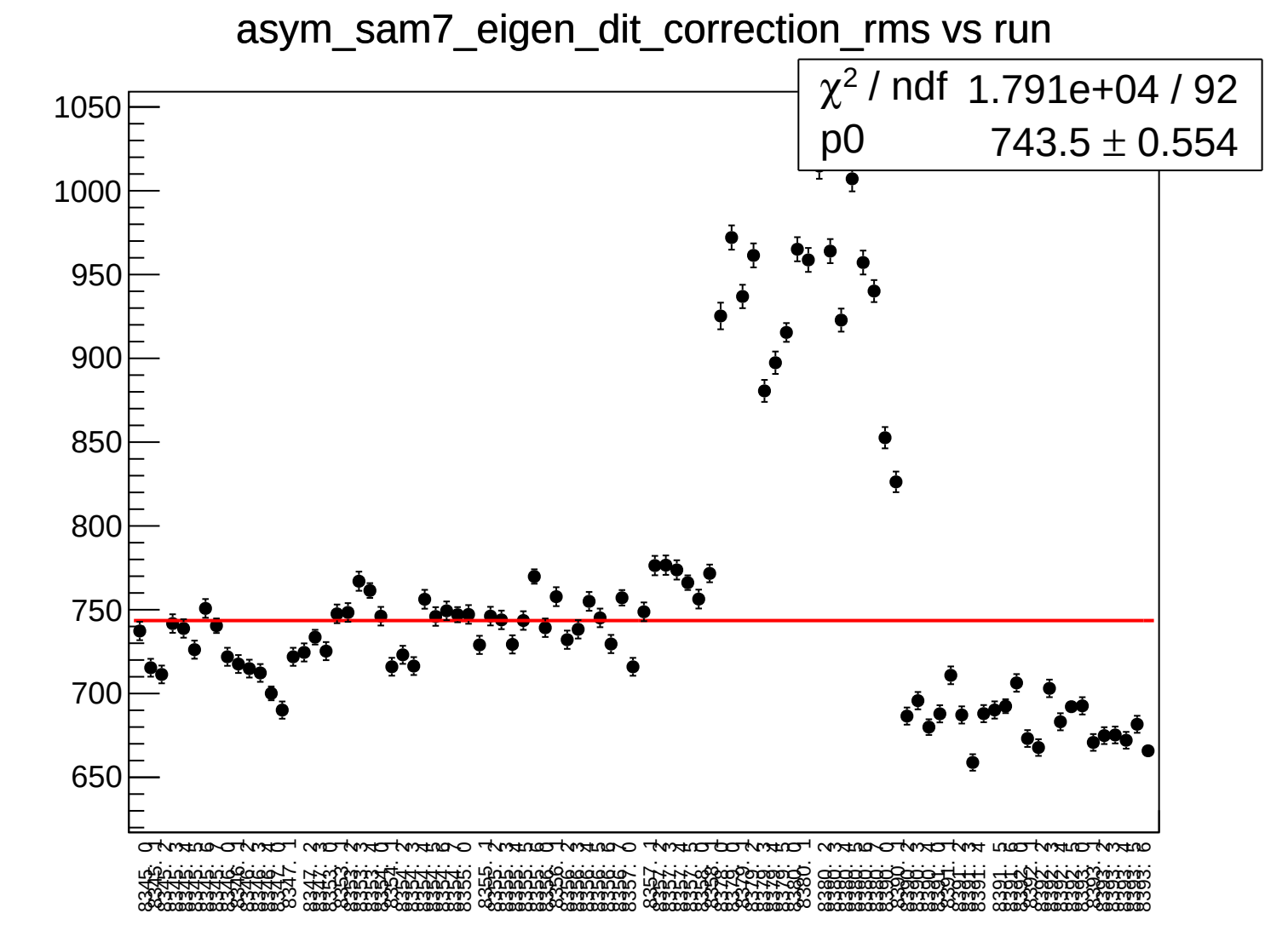

eigen_dit_asym_sam7_mean vs run
χ² / ndf 95.5 / 92
p0 −98.39 ± 85.66
pull
Entries 93
Mean 43.83
Std Dev 0

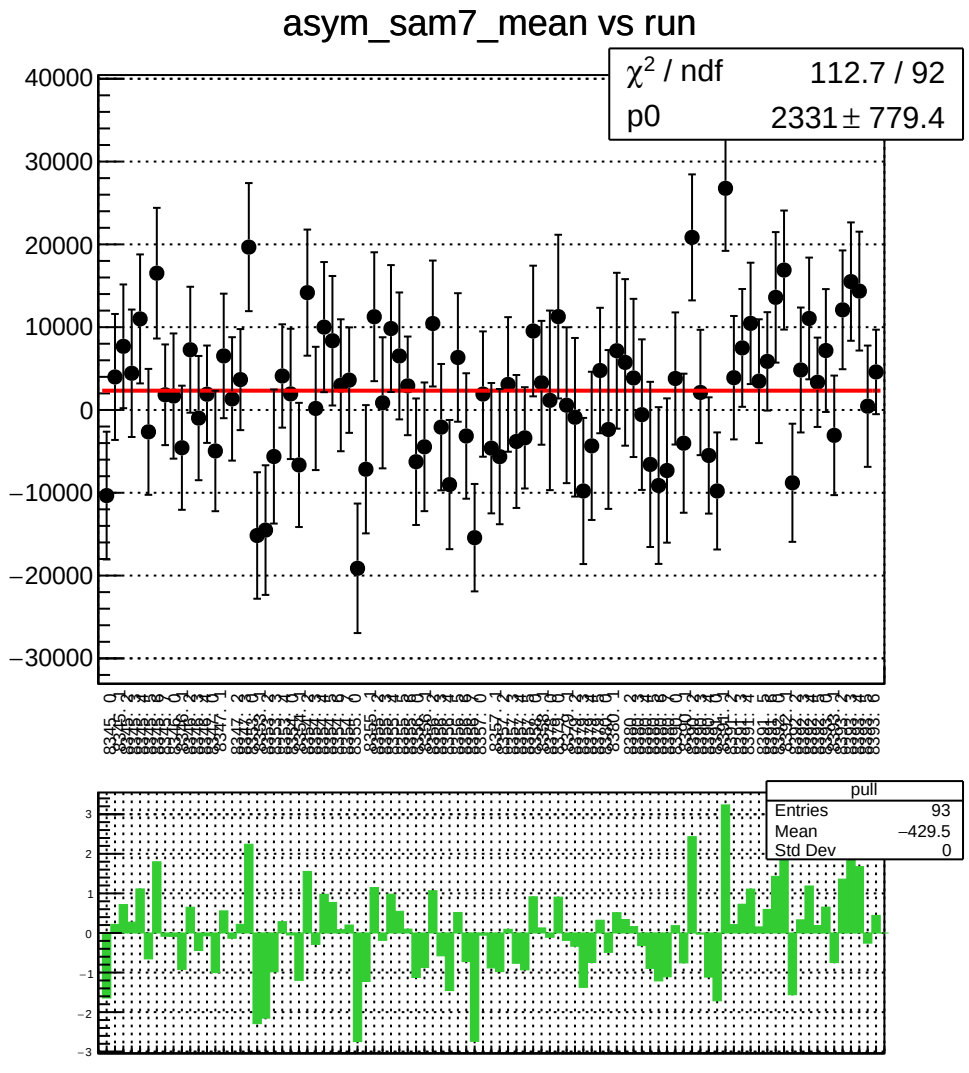

pull1D
Entries 93
Mean −0.02696
Std Dev 1.013

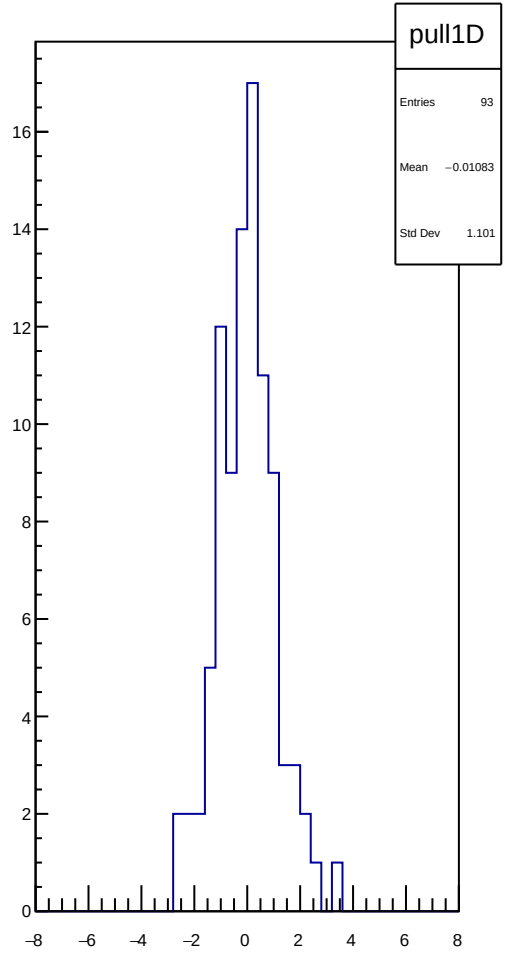

eigen_dit_asym_sam7_rms vs run
χ^2 / ndf 2.858e+04 / 92
p0 81.05 ± 0.06057
130
120
110
100
90
80
70

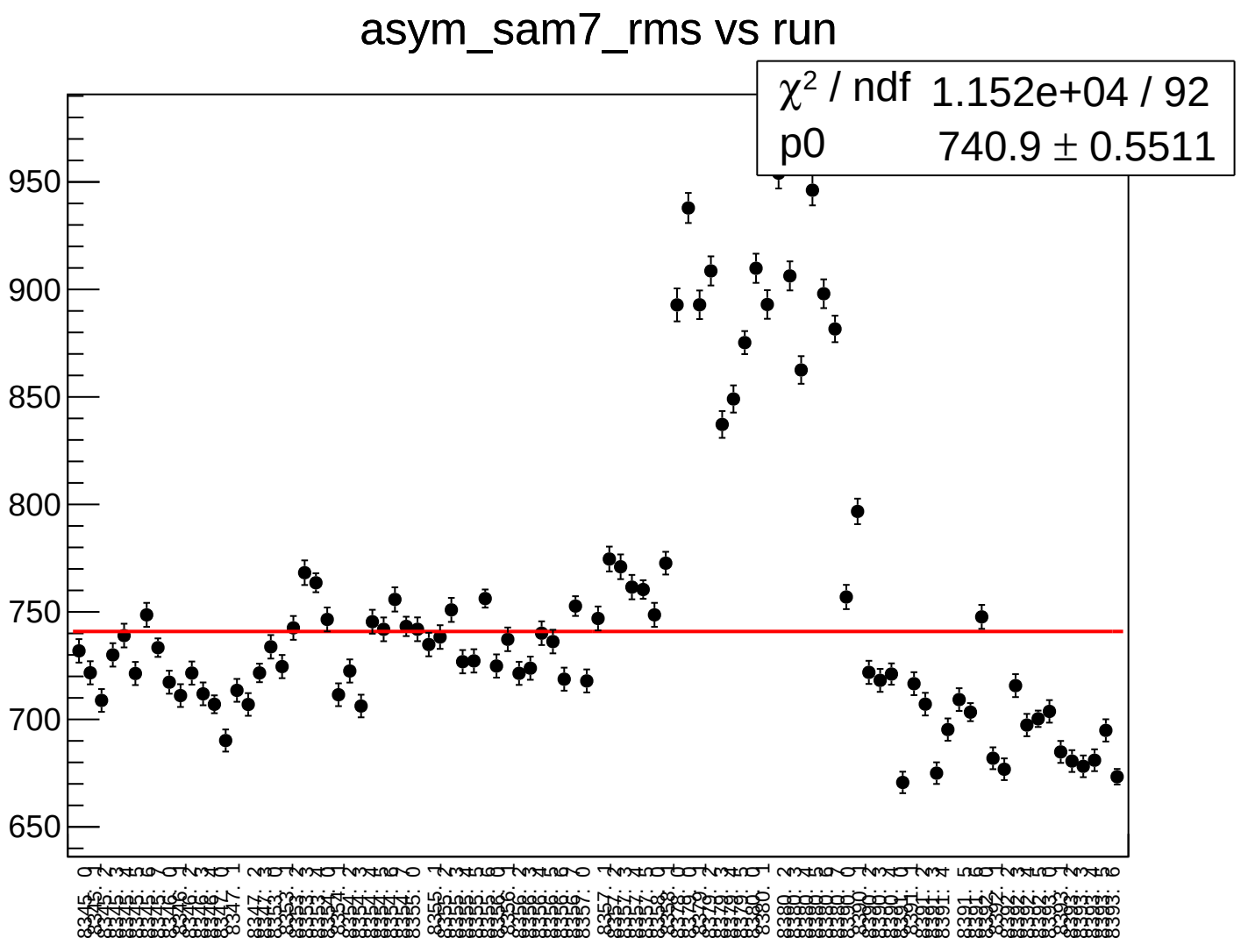

asym_sam7_eigen_dit_correction_mean vs run
χ² / ndf 112.2 / 92
p0 −2557 ± 783.5
pull
Entries 93
Mean −297.7
Std Dev 0

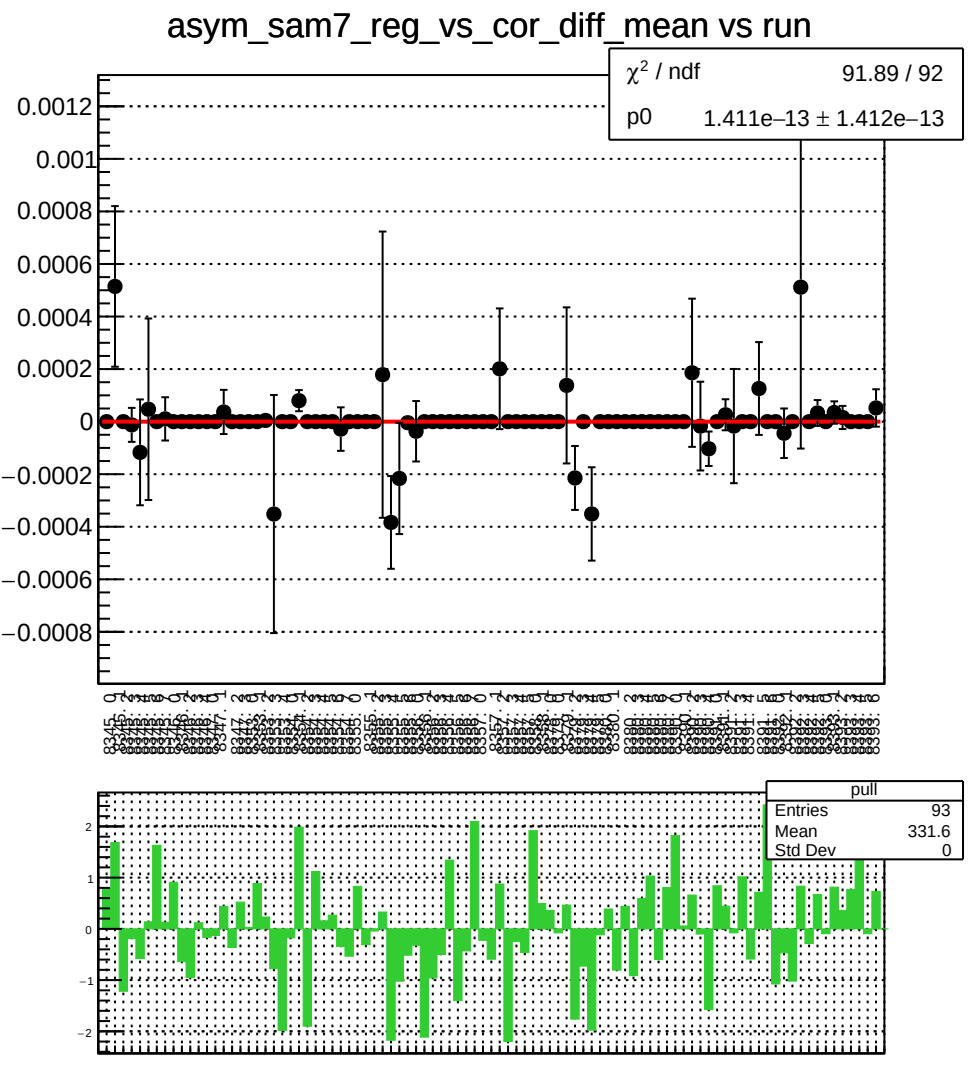

pull1D
Entries 93
Mean 0.01529
Std Dev 1.098

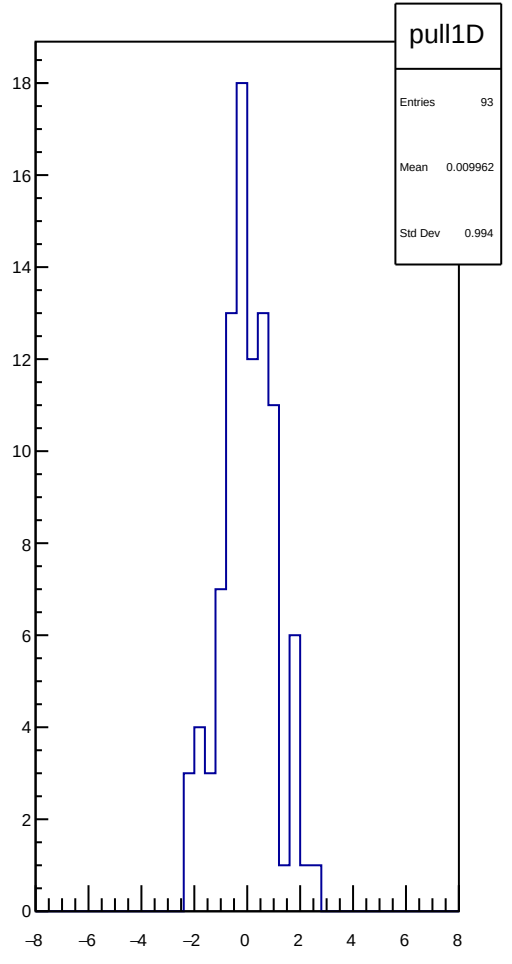

asym_sam7_eigen_dit_correction_rms vs run
χ² / ndf 1.791e+04 / 92
p0 743.5 ± 0.554
1050
1000
950
900
850
800
750
700
650

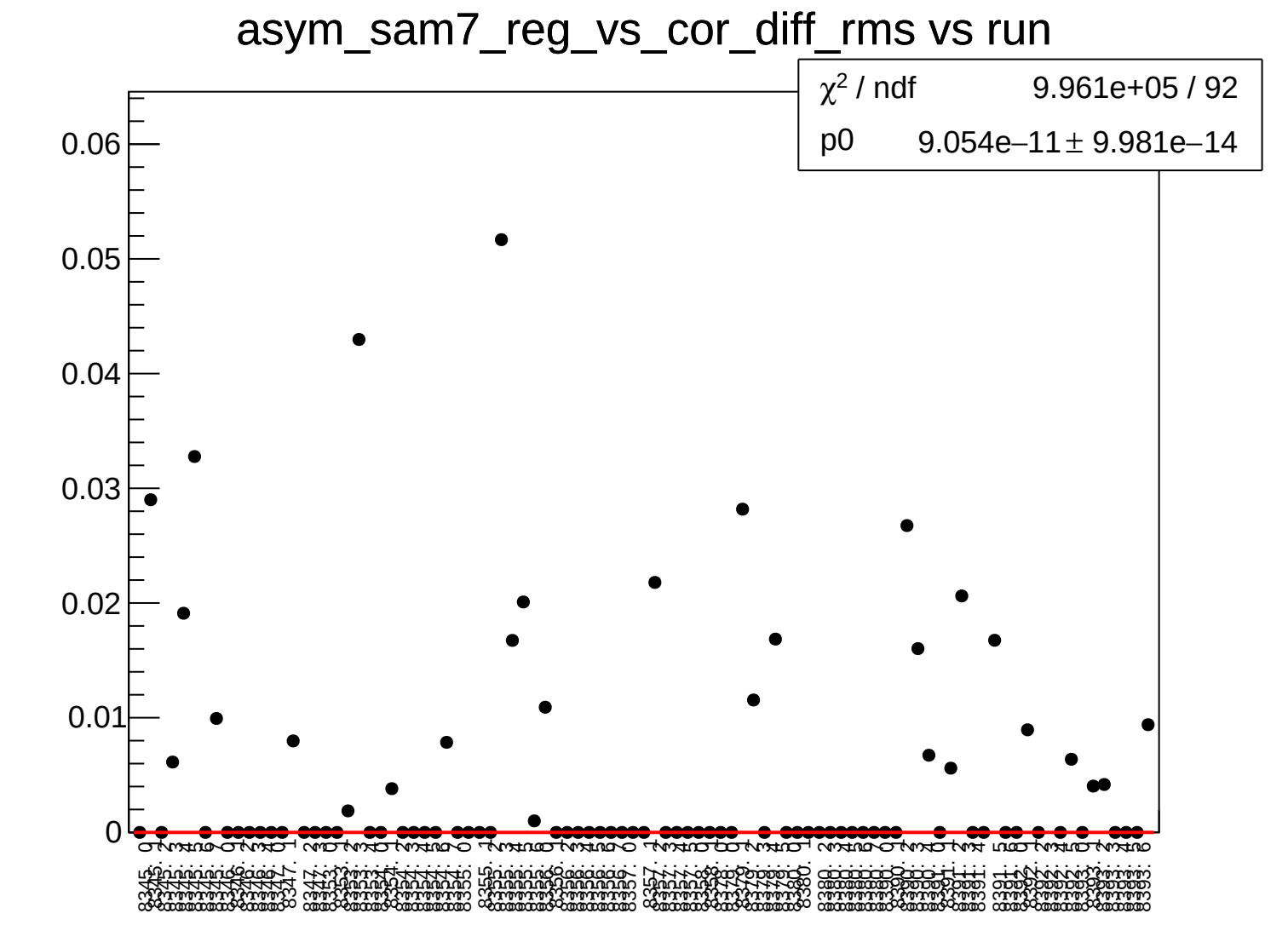

asym_sam7_mean vs run
χ² / ndf 112.7 / 92
p0 2331 ± 779.4
pull
Entries 93
Mean −429.5
Std Dev 0

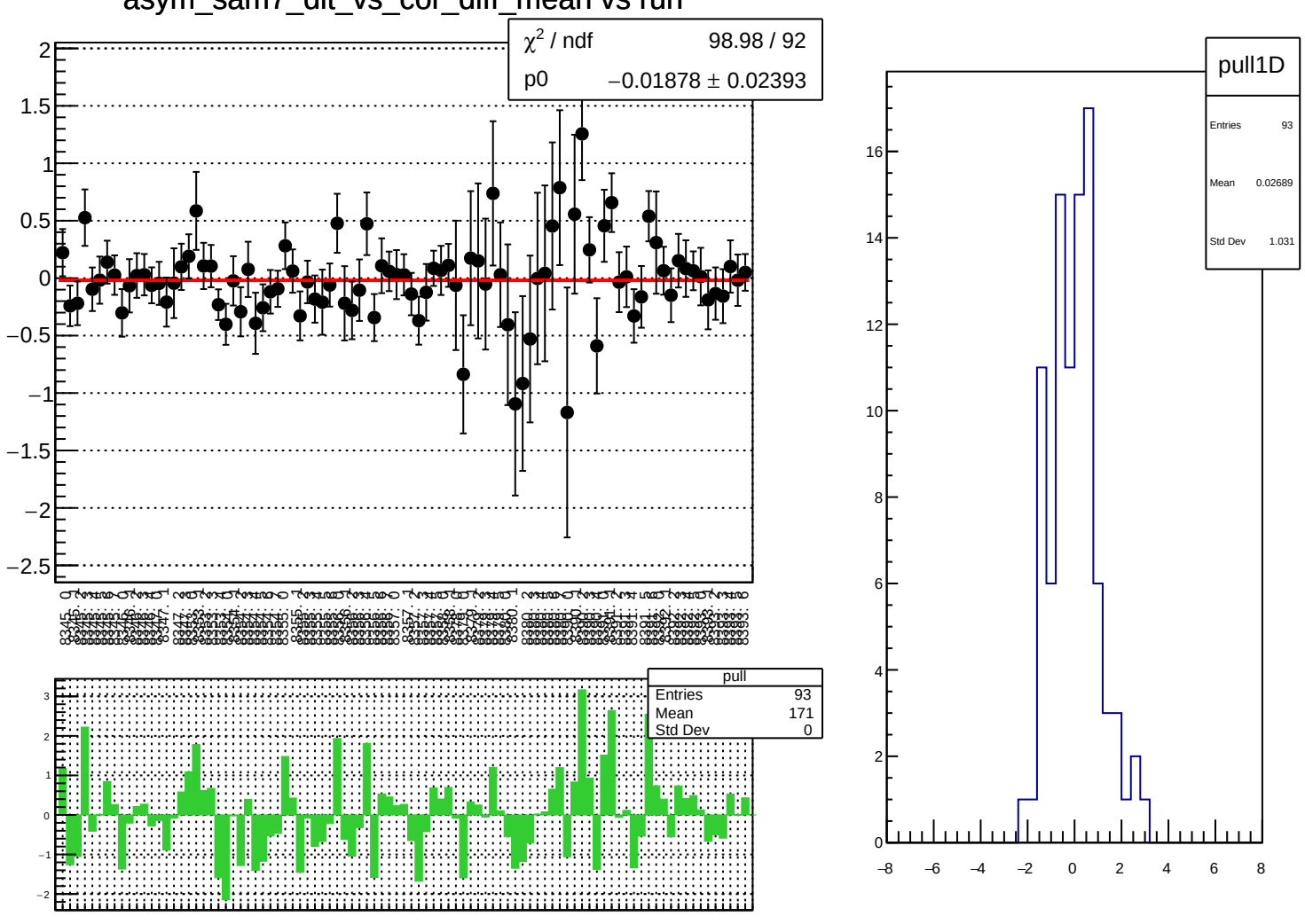

pull1D
Entries 93
Mean −0.01083
Std Dev 1.101

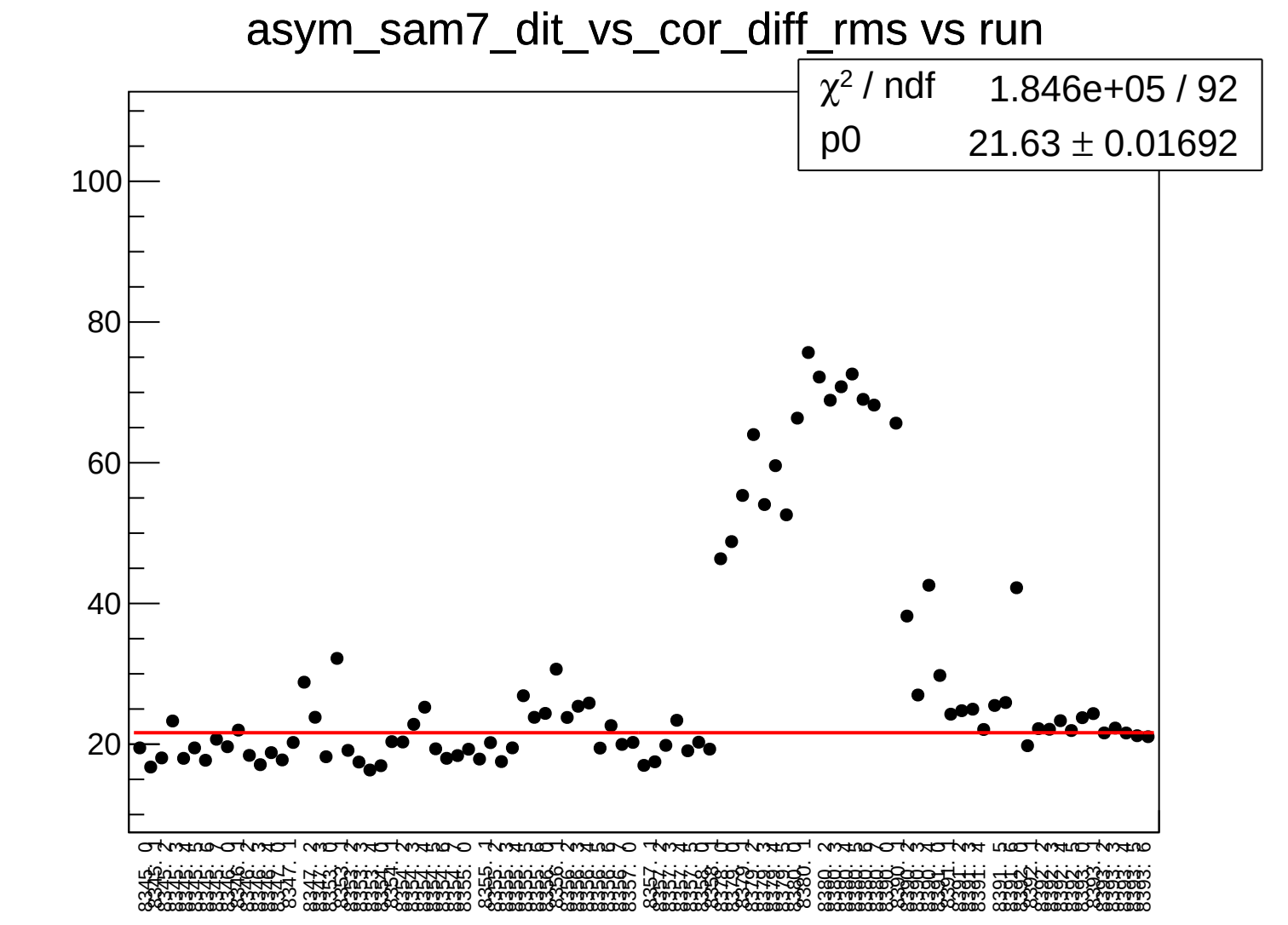

asym_sam7_rms vs run
χ² / ndf 1.152e+04 / 92
p0 740.9 ± 0.5511
950
900
850
800
750
700
650

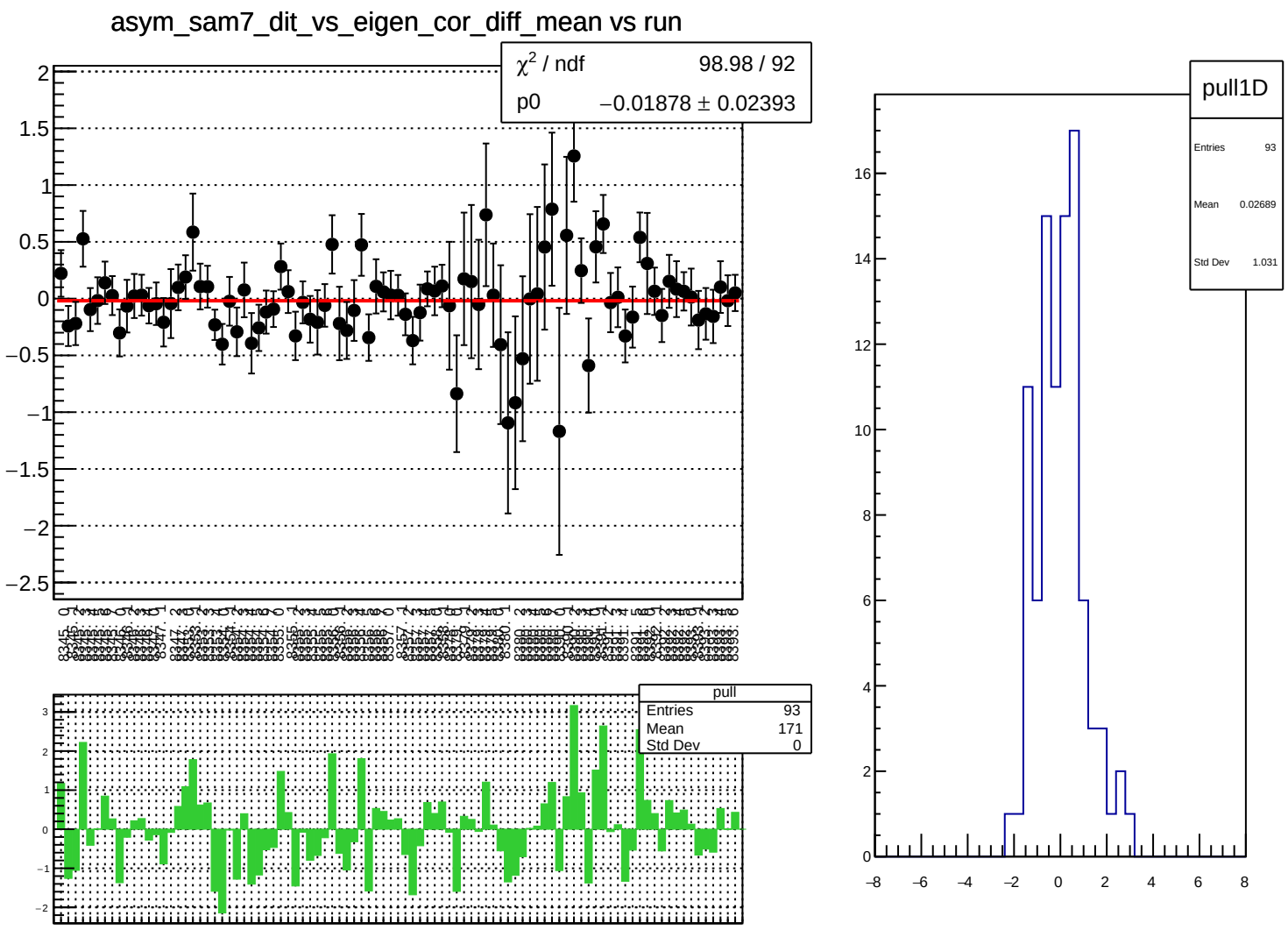

asym_sam7_reg_vs_cor_diff_mean vs run
χ² / ndf 91.89 / 92
p0 1.411e−13 ± 1.412e−13
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
pull
Entries 93
Mean 331.6
Std Dev 0
2
1
0
−1
−2

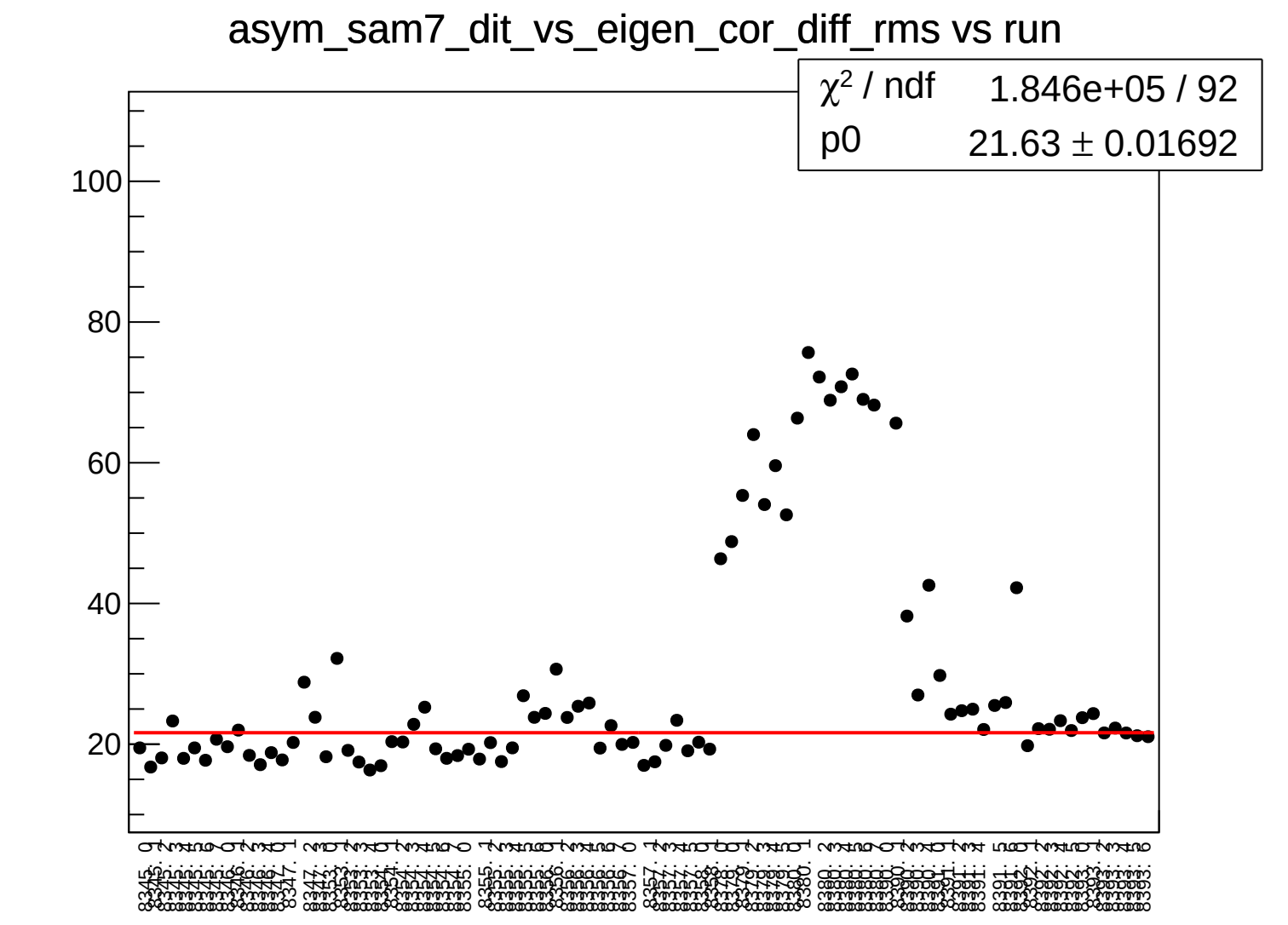

pull1D
Entries 93
Mean 0.009962
Std Dev 0.994
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

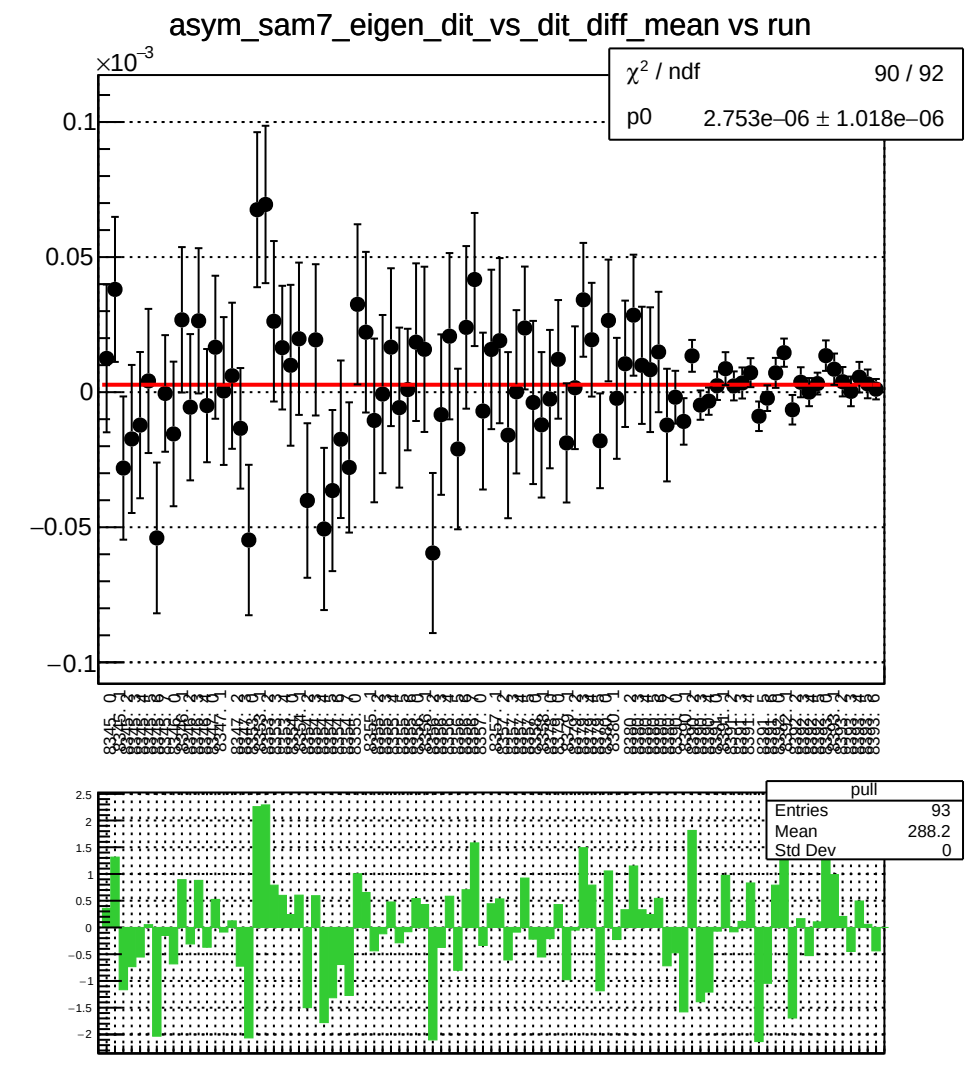

asym_sam7_reg_vs_cor_diff_rms vs run
χ² / ndf 9.961e+05 / 92
p0 9.054e−11 ± 9.981e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

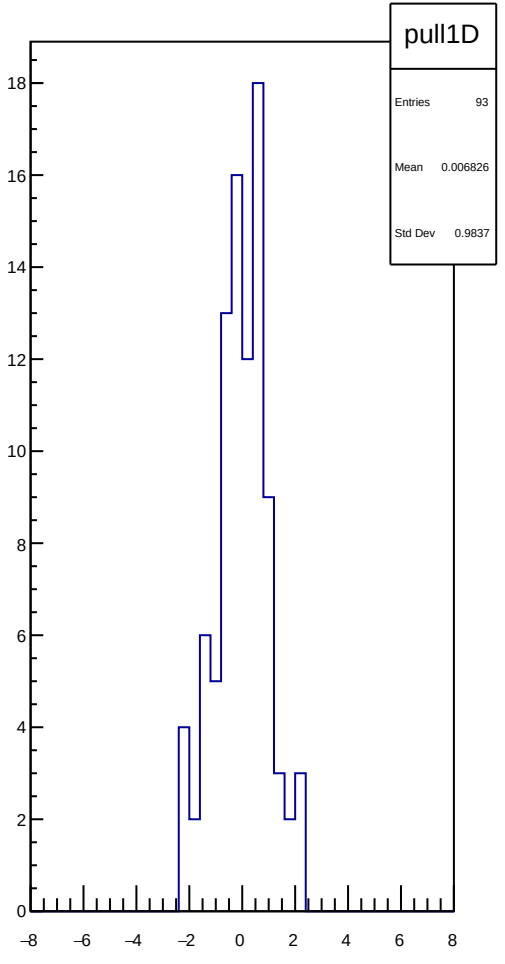

asym_sam7_dit_vs_cor_diff_mean vs run
χ² / ndf 98.98 / 92
p0 −0.01878 ± 0.02393
pull
Entries 93
Mean 171
Std Dev 0
pull1D
Entries 93
Mean 0.02689
Std Dev 1.031

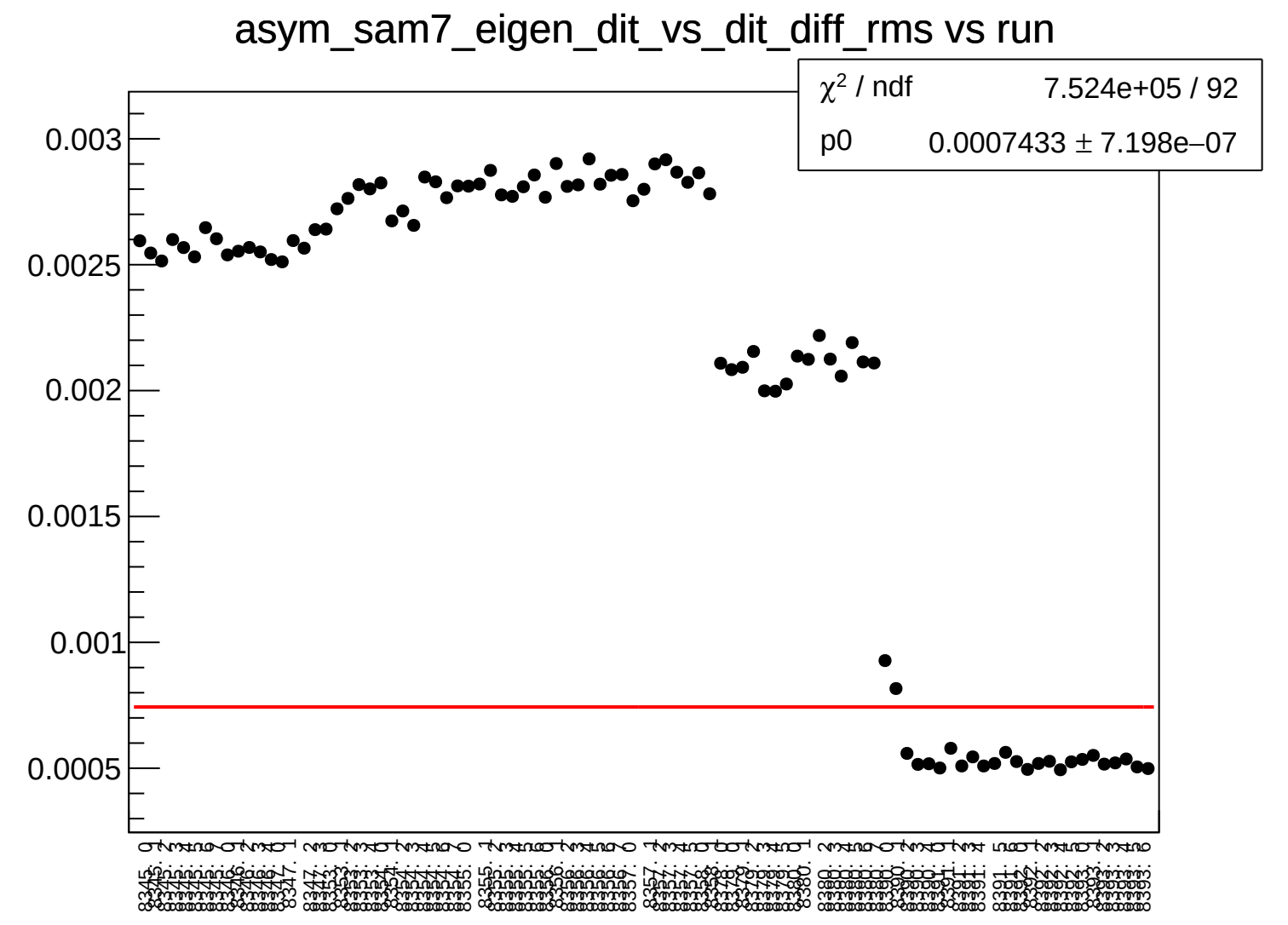

asym_sam7_dit_vs_cor_diff_rms vs run
χ² / ndf 1.846e+05 / 92
p0 21.63 ± 0.01692
100
80
60
40
20

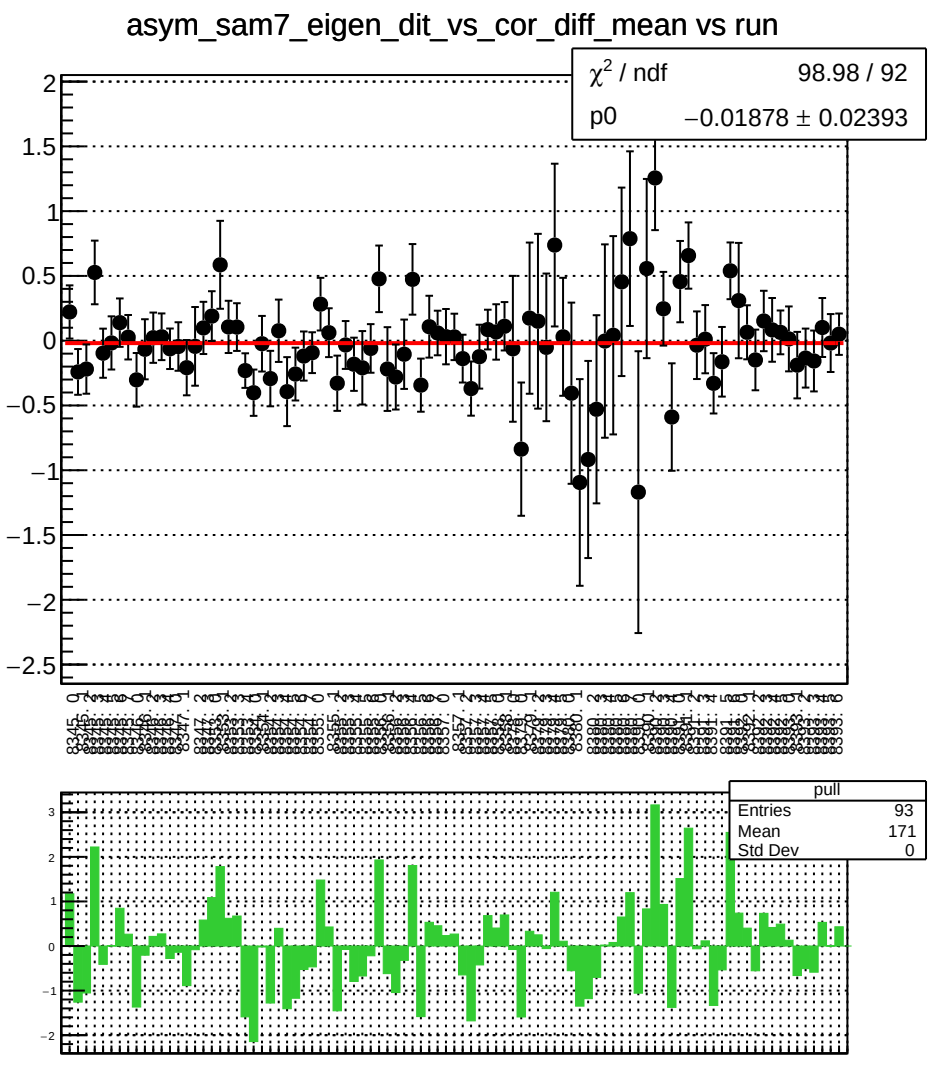

asym_sam7_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.98 / 92
p0 −0.01878 ± 0.02393
pull
Entries 93
Mean 171
Std Dev 0
pull1D
Entries 93
Mean 0.02689
Std Dev 1.031

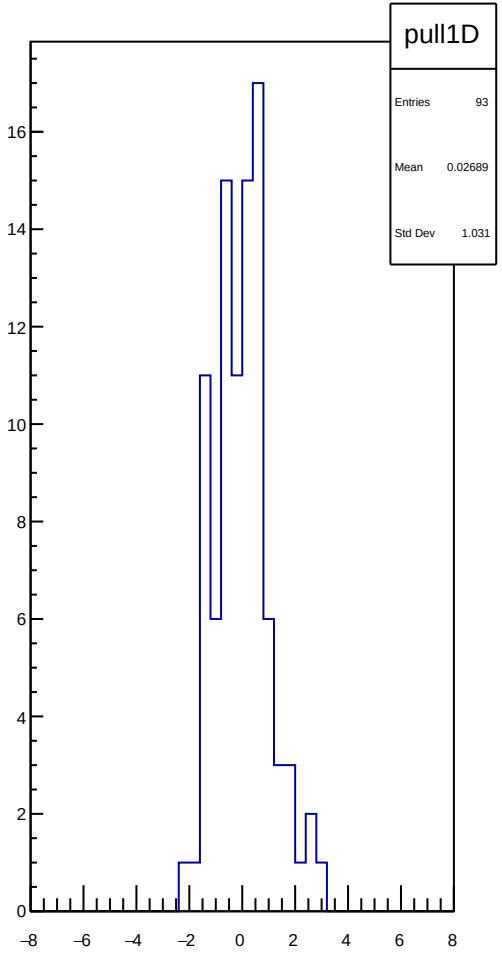

asym_sam7_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.846e+05 / 92
p0 21.63 ± 0.01692
100
80
60
40
20

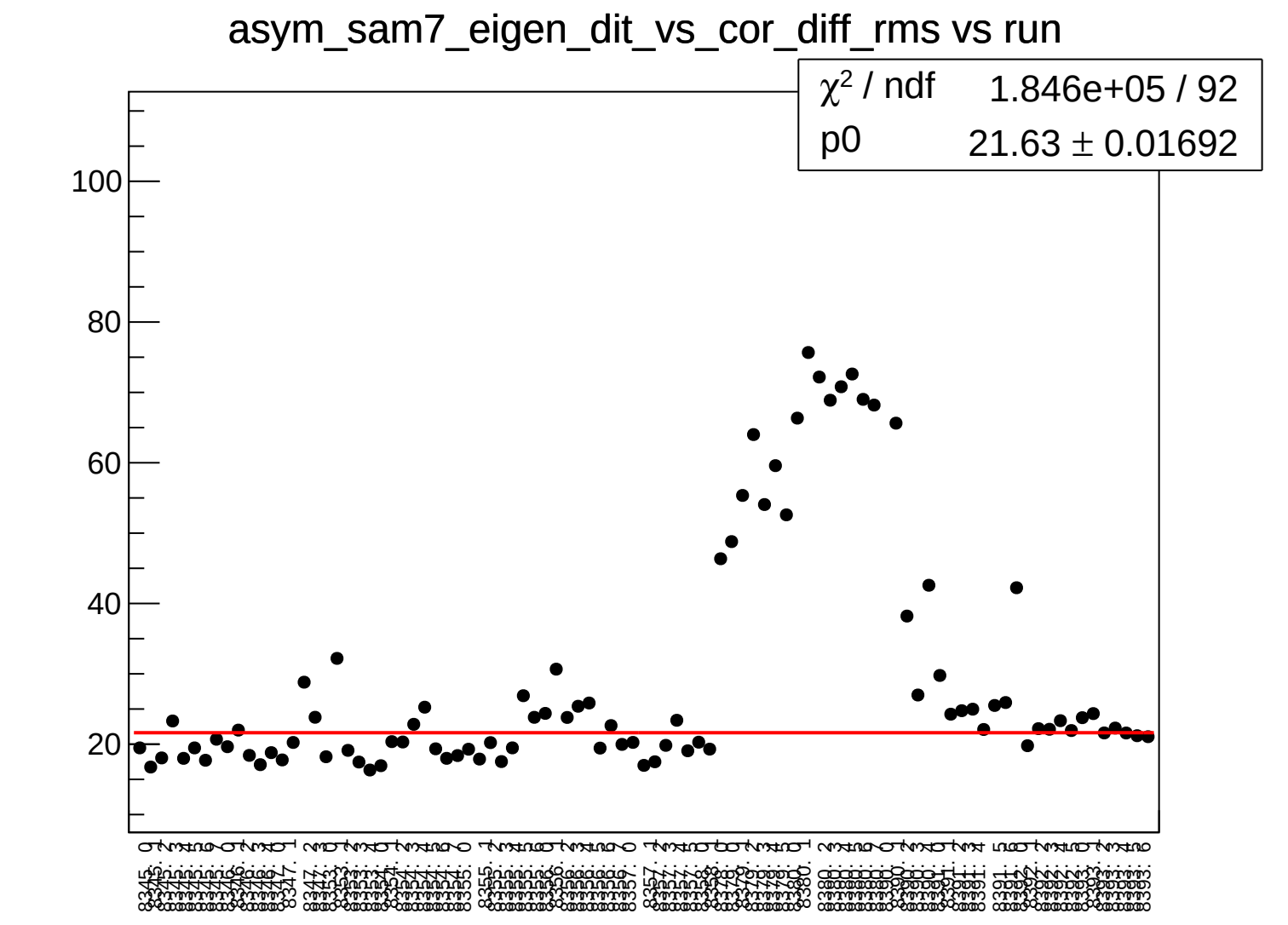

asym_sam7_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90 / 92
p0 2.753e−06 ± 1.018e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 93
Mean 288.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

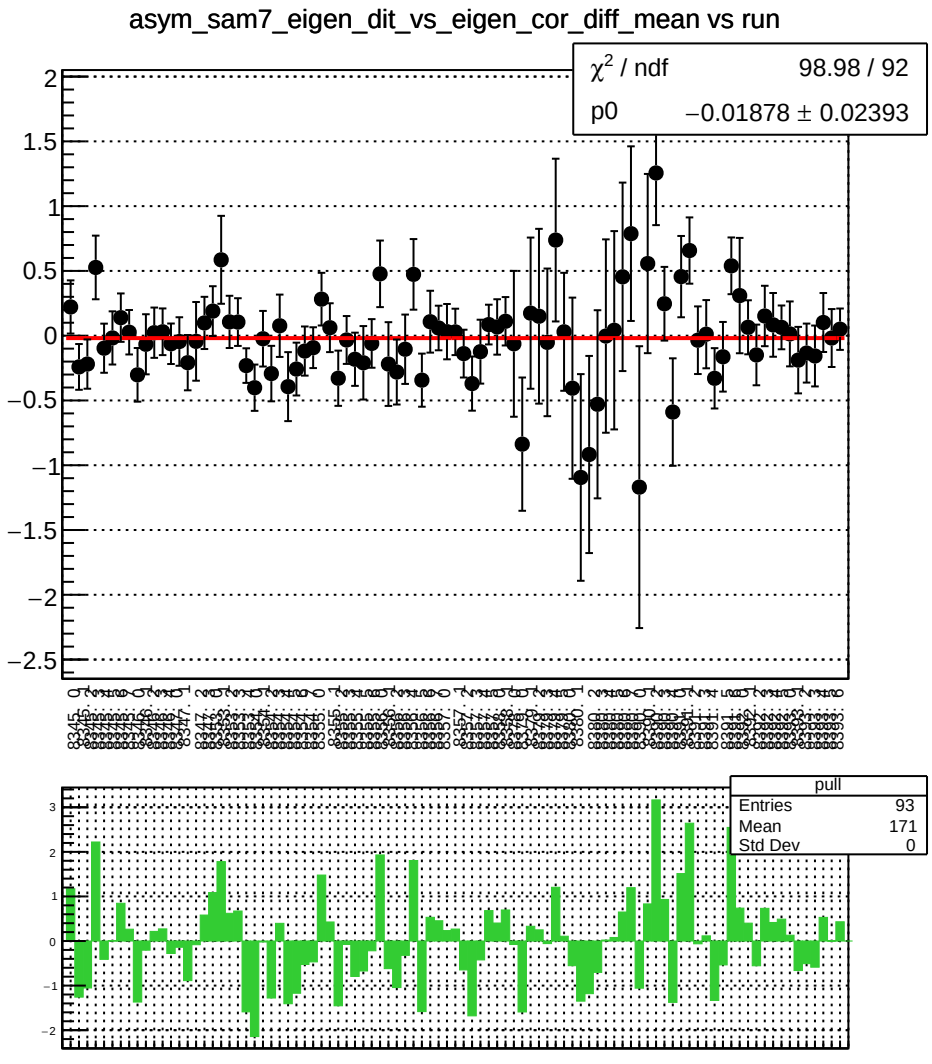

pull1D
Entries 93
Mean 0.006826
Std Dev 0.9837
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

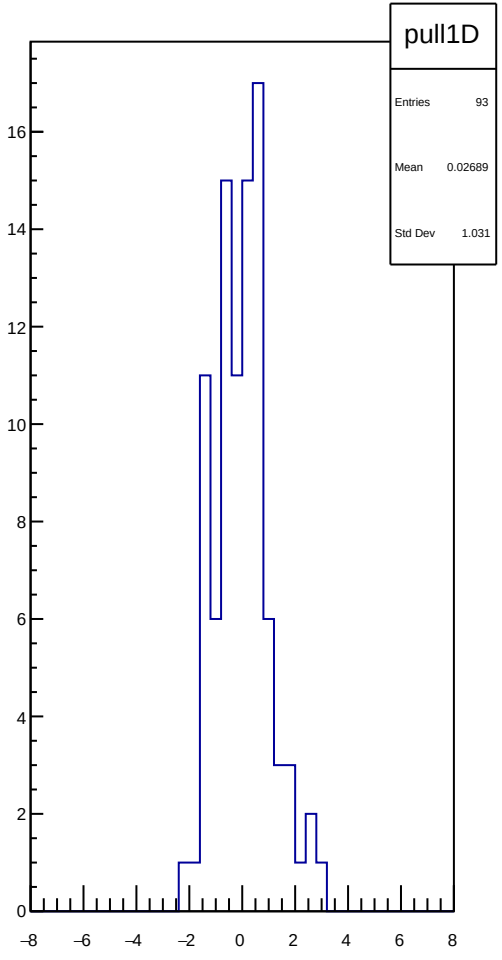

asym_sam7_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.524e+05 / 92
p0 0.0007433 ± 7.198e−07
0.003
0.0025
0.002
0.0015
0.001
0.0005

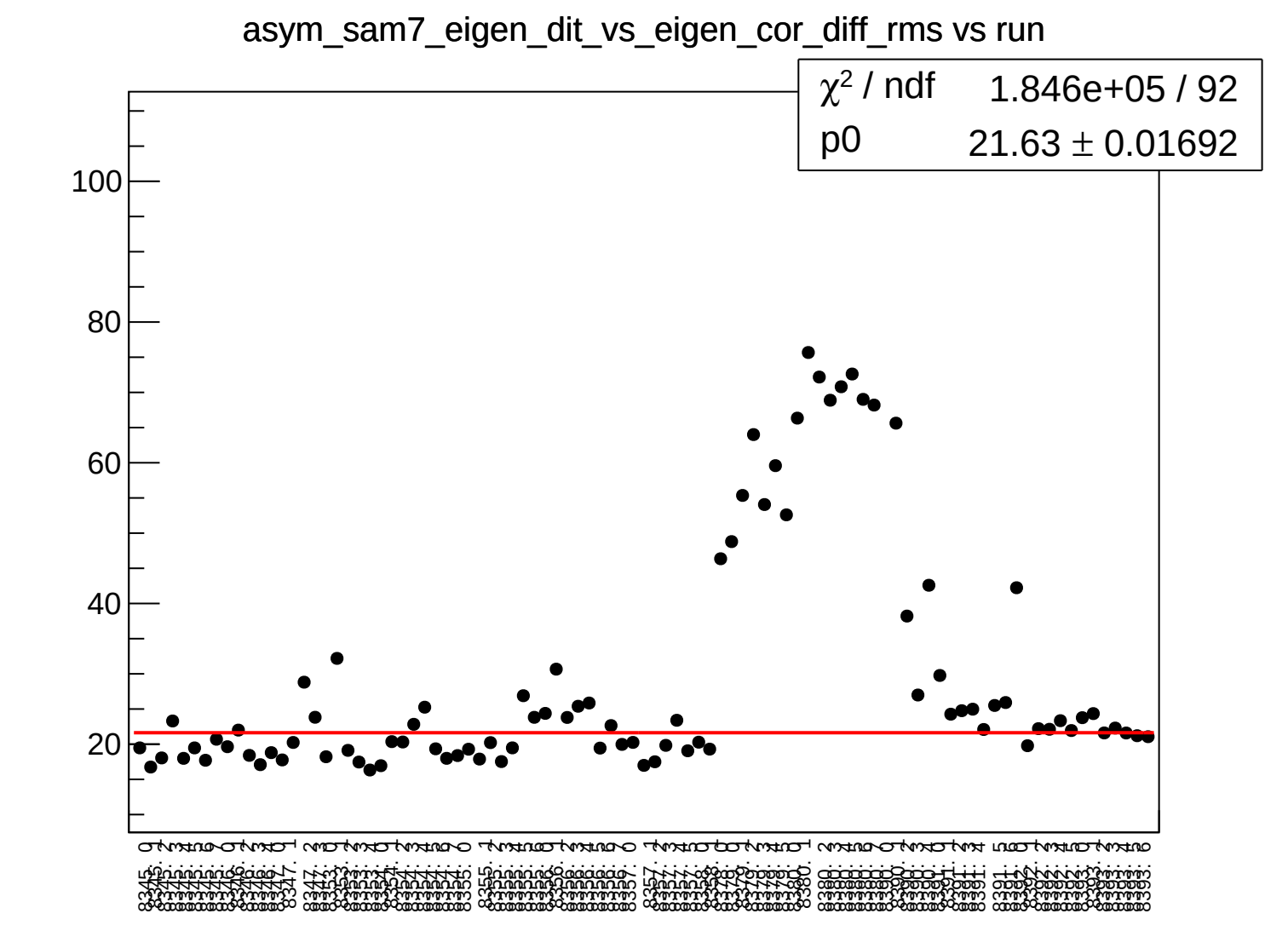

asym_sam7_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 98.98 / 92
p0 −0.01878 ± 0.02393
pull
Entries 93
Mean 171
Std Dev 0

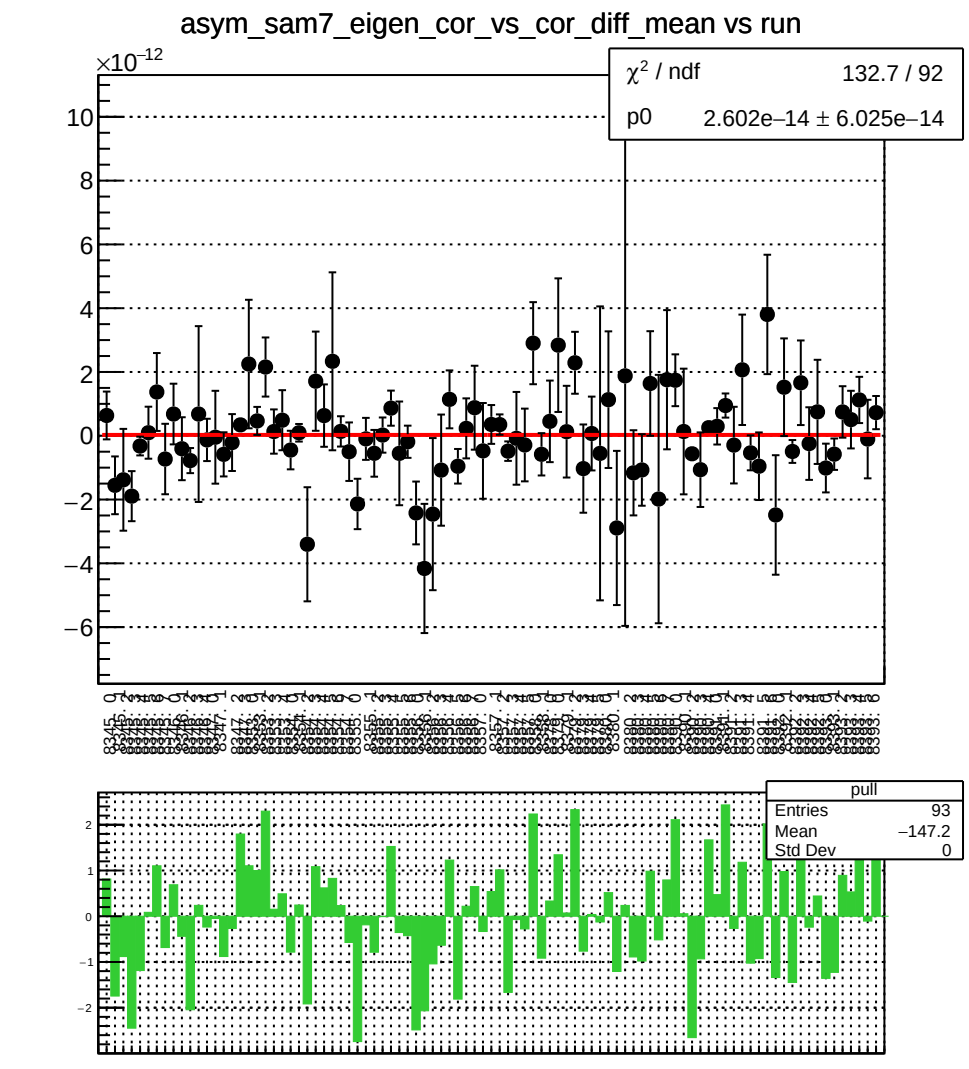

pull1D
Entries 93
Mean 0.02689
Std Dev 1.031

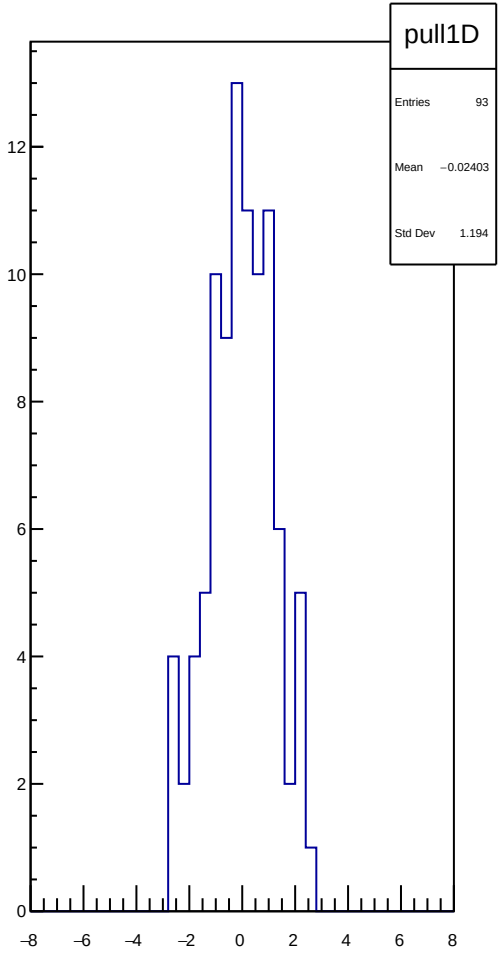

asym_sam7_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.846e+05 / 92
p0 21.63 ± 0.01692
100
80
60
40
20

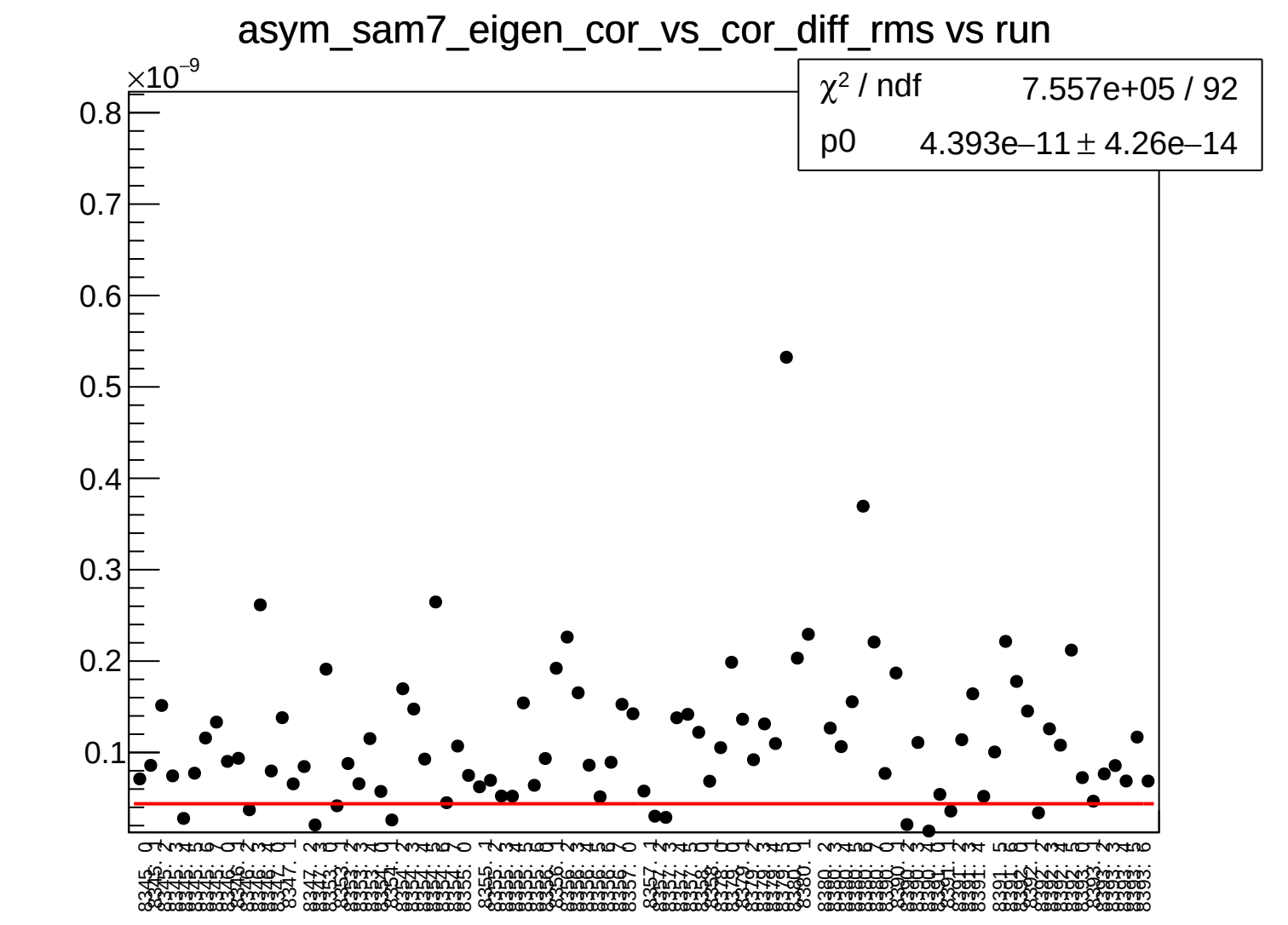

asym_sam7_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.98 / 92
p0 −0.01878 ± 0.02393
pull
Entries 93
Mean 171
Std Dev 0

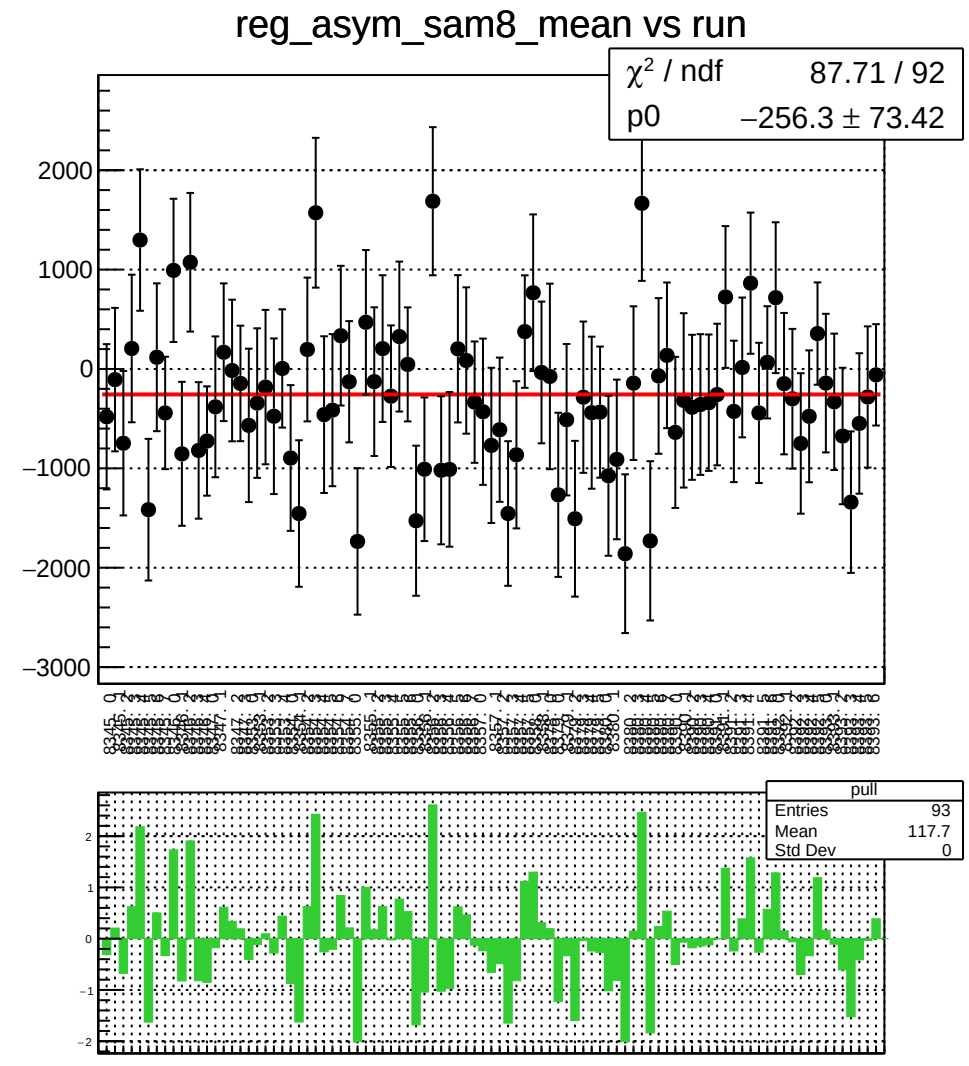

pull1D
Entries 93
Mean 0.02689
Std Dev 1.031

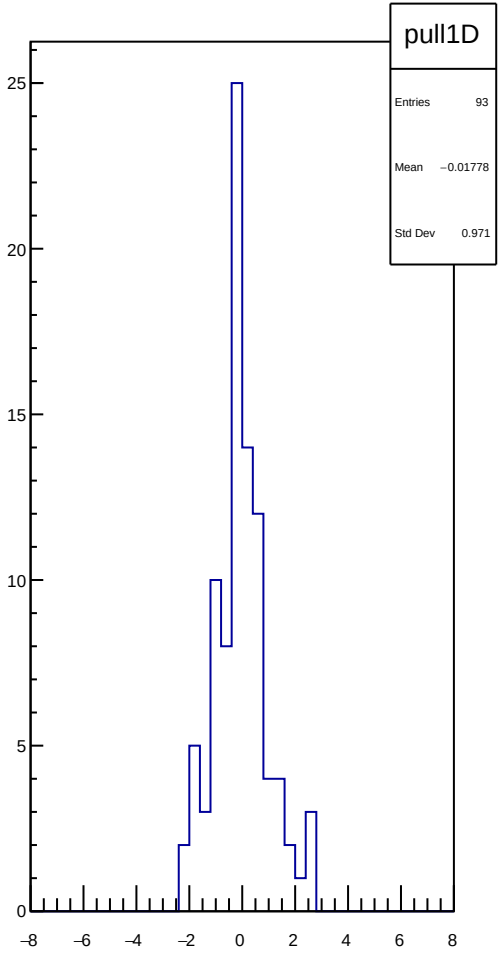

asym_sam7_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.846e+05 / 92
p0 21.63 ± 0.01692
100
80
60
40
20

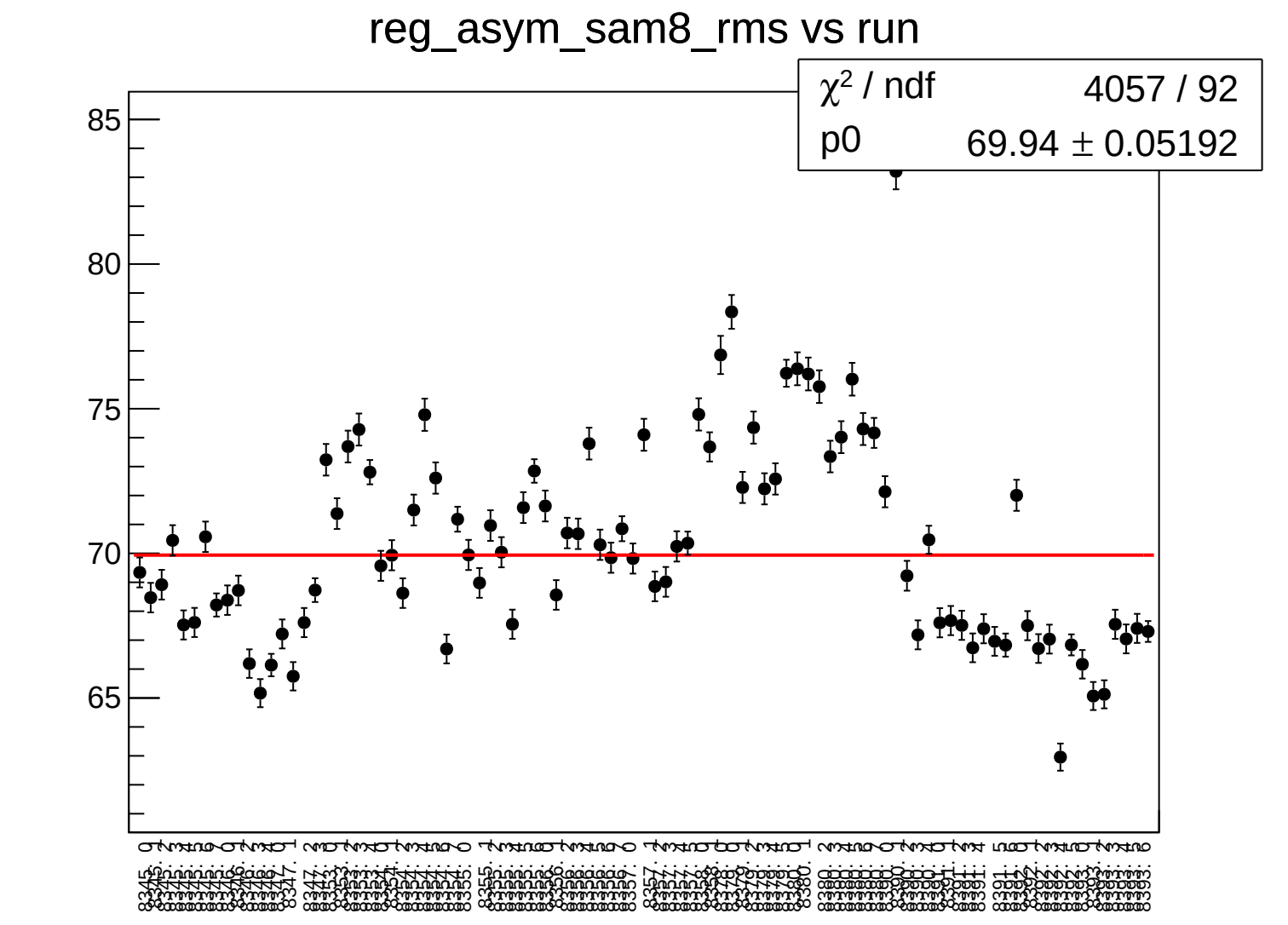

asym_sam7_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 132.7 / 92
p0 2.602e−14 ± 6.025e−14
pull
Entries 93
Mean −147.2
Std Dev 0

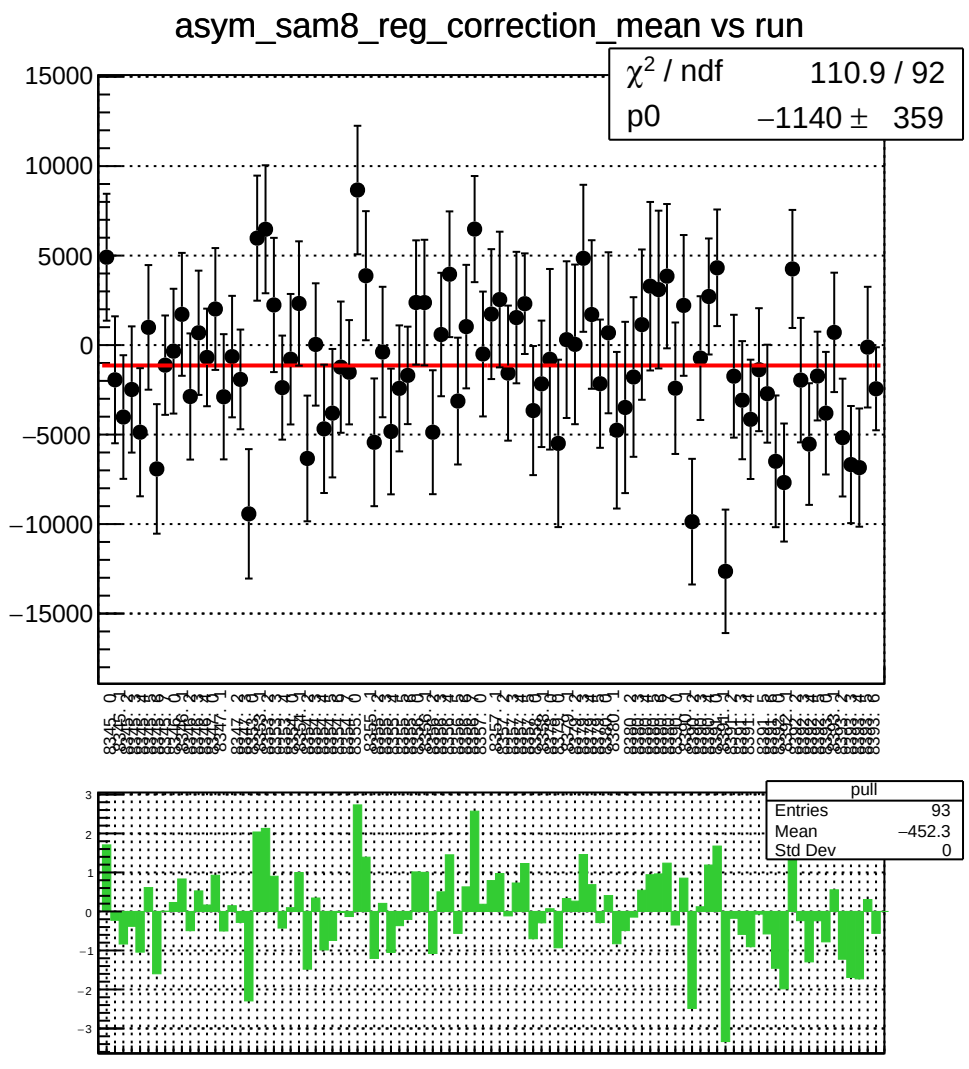

pull1D
Entries 93
Mean −0.02403
Std Dev 1.194

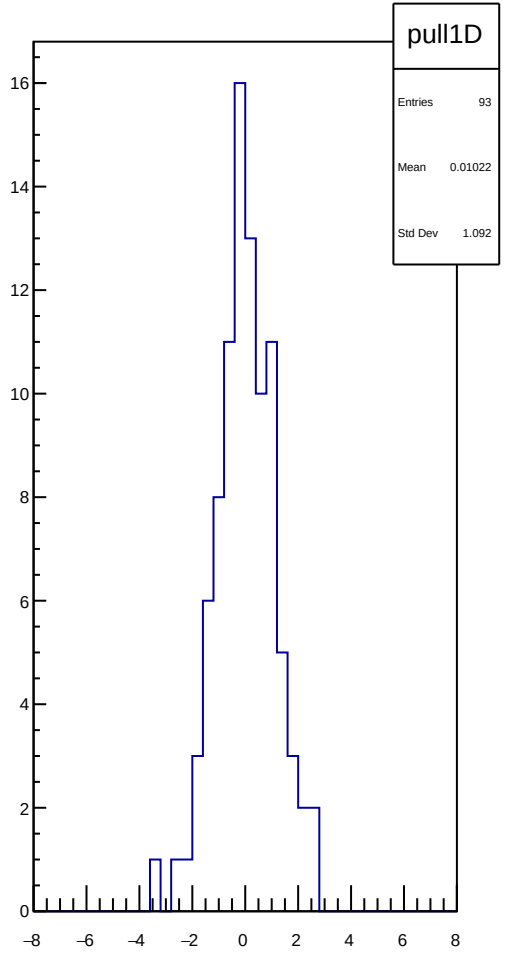

asym_sam7_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.557e+05 / 92
p0 4.393e−11 ± 4.26e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

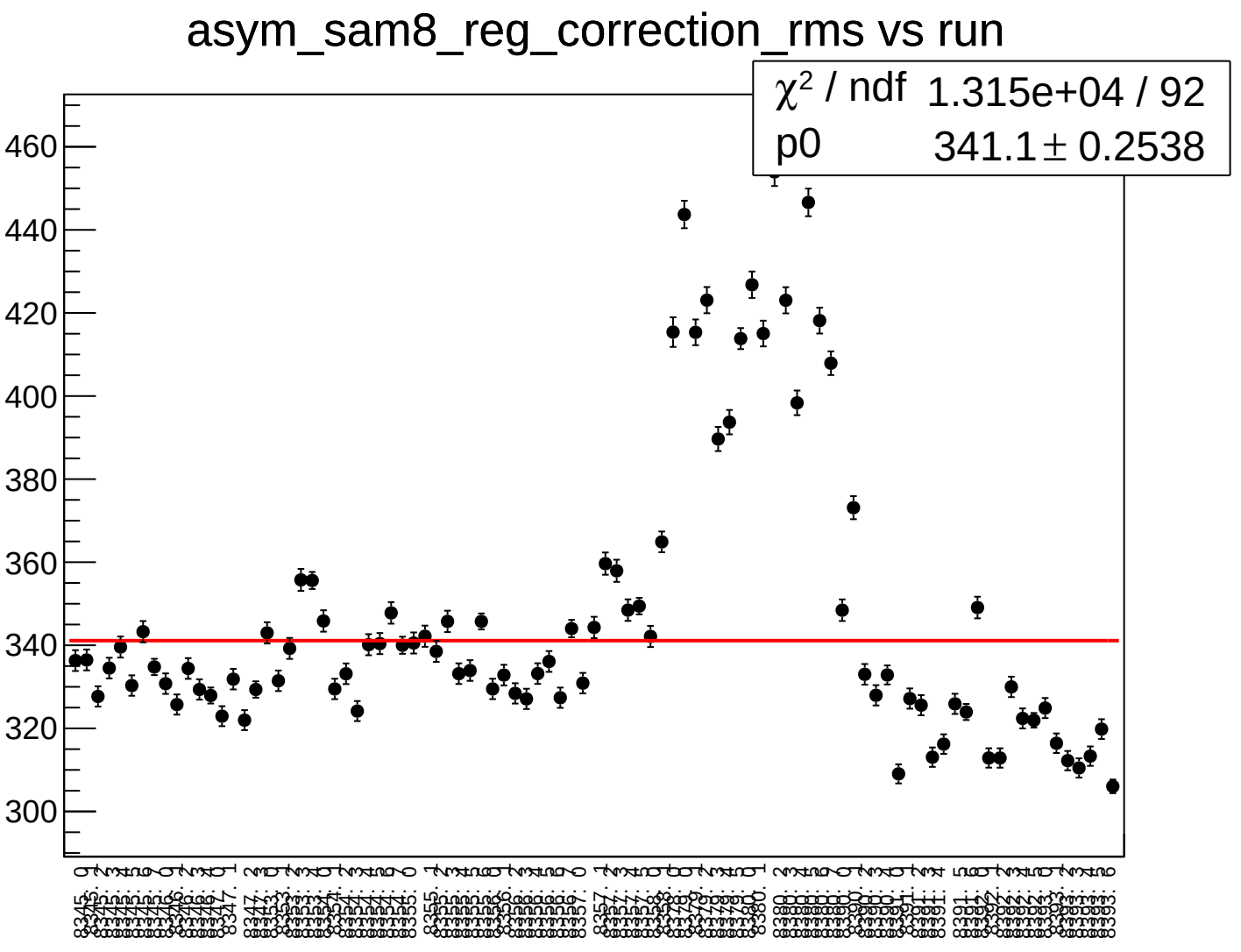

reg_asym_sam8_mean vs run
χ² / ndf 87.71 / 92
p0 −256.3 ± 73.42
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean 117.7
Std Dev 0
2
1
0
−1
−2

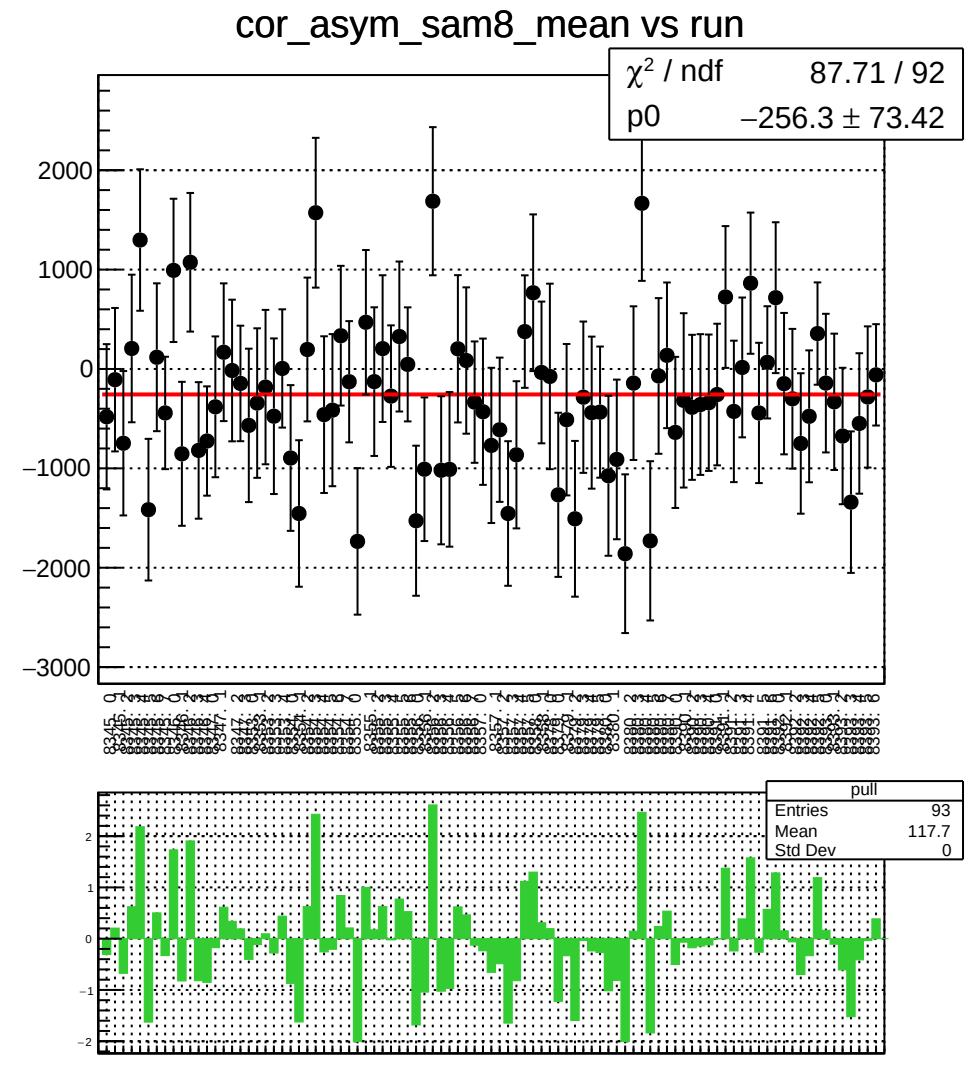

pull1D
Entries 93
Mean −0.01778
Std Dev 0.971
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

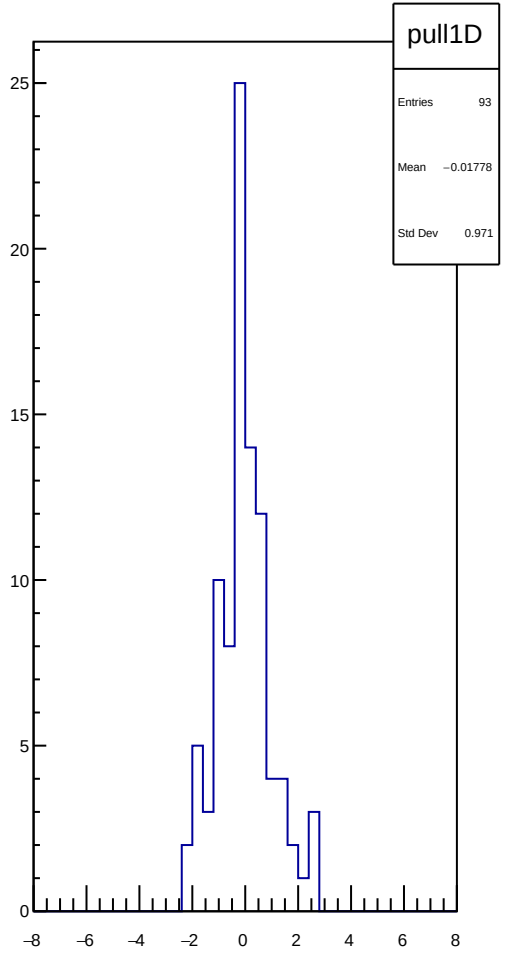

reg_asym_sam8_rms vs run
χ^2 / ndf 4057 / 92
p0 69.94 ± 0.05192
85
80
75
70
65

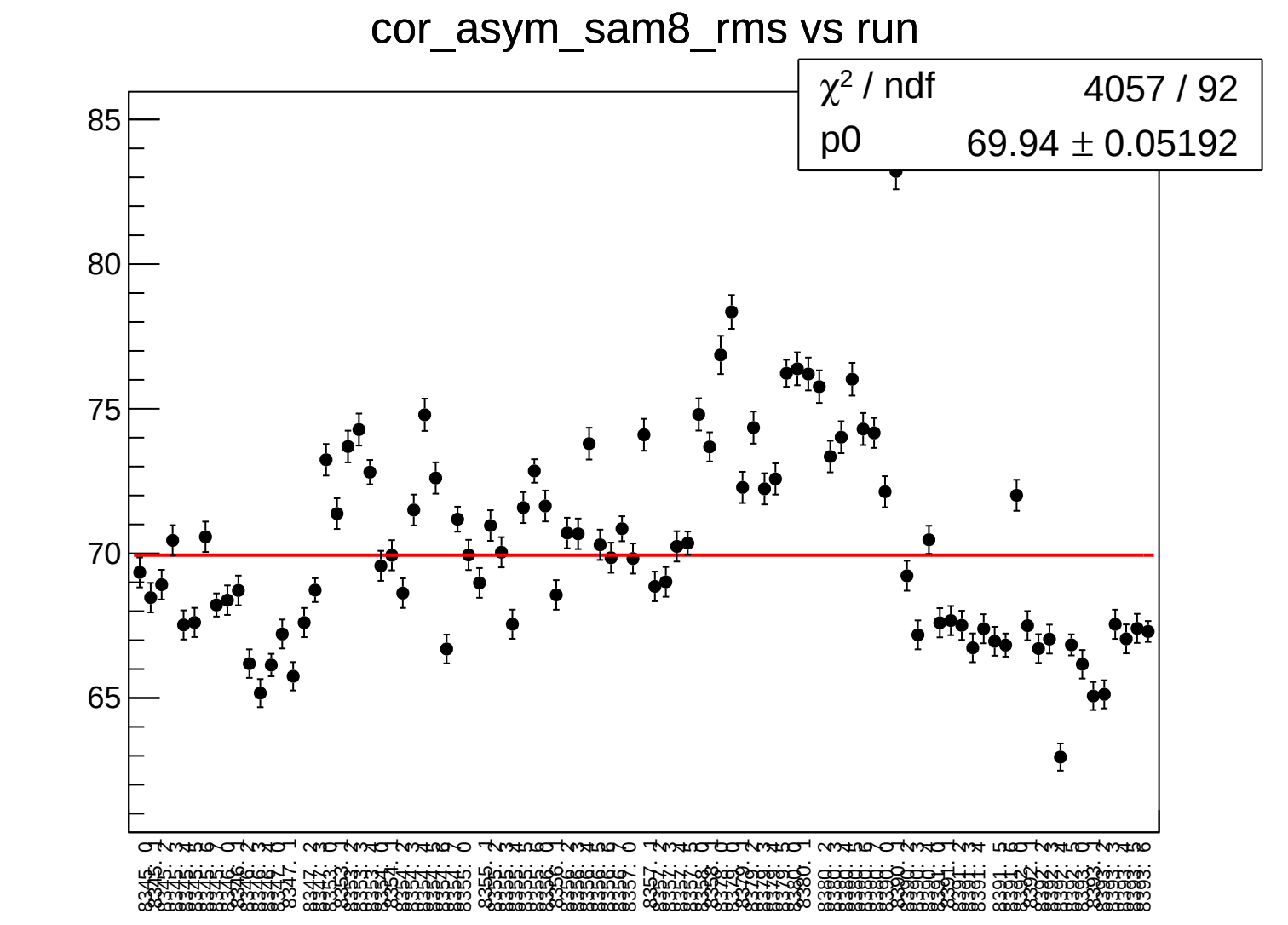

asym_sam8_reg_correction_mean vs run
χ² / ndf 110.9 / 92
p0 −1140 ± 359
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −452.3
Std Dev 0
3
2
1
0
−1
−2
−3

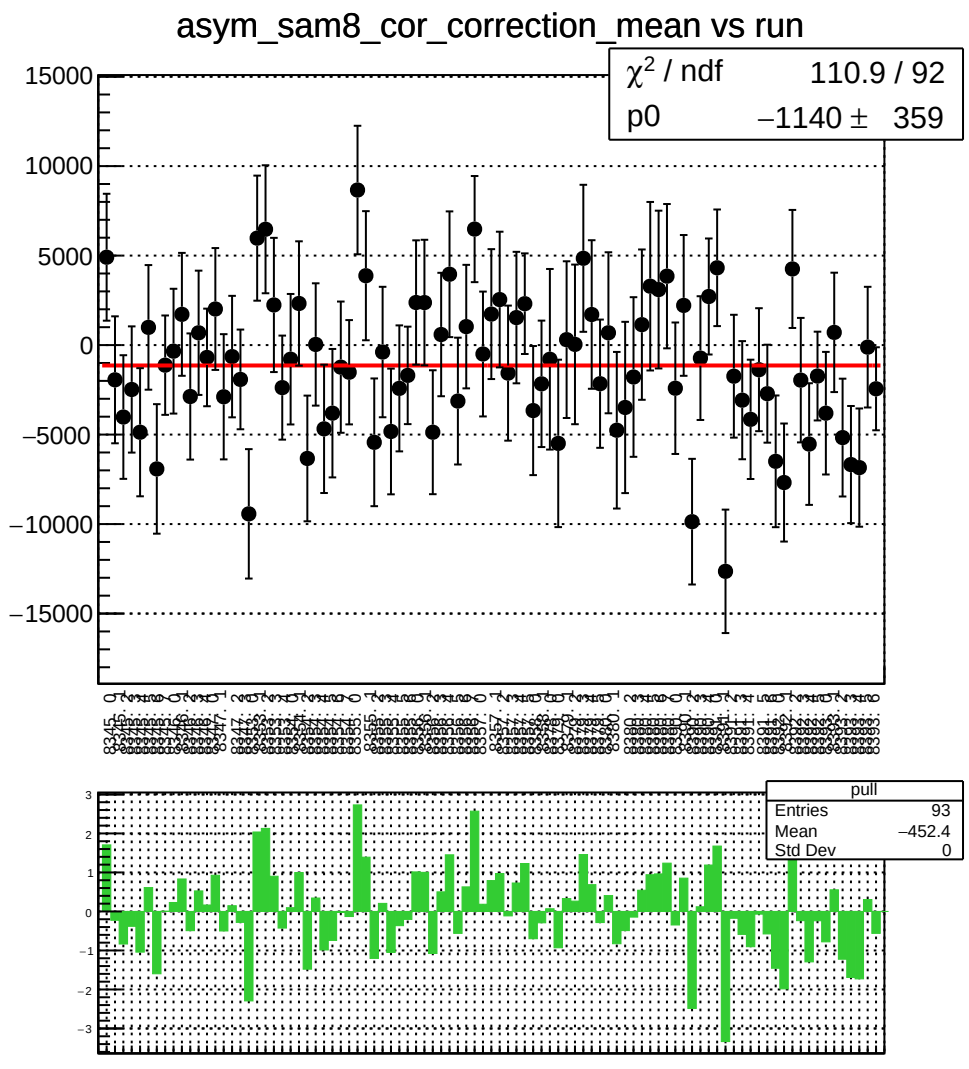

pull1D
Entries 93
Mean 0.01022
Std Dev 1.092
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

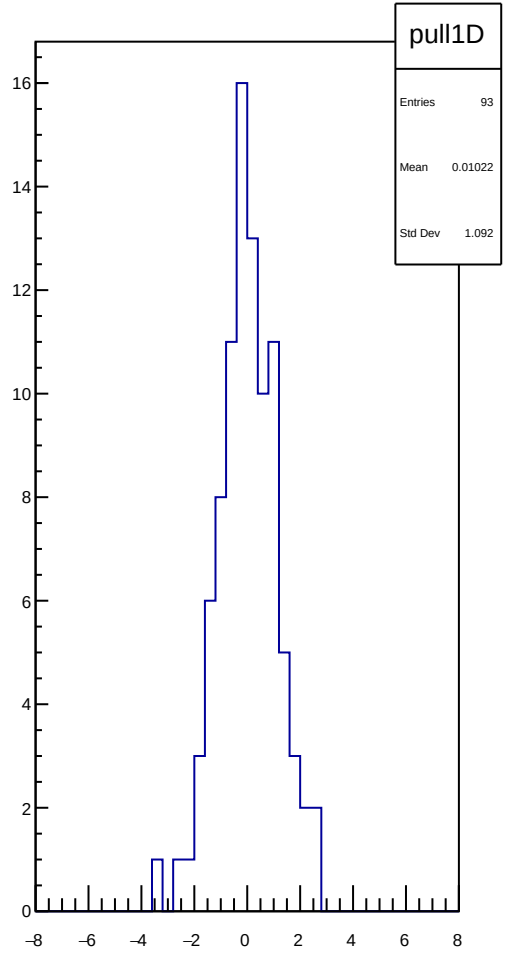

asym_sam8_reg_correction_rms vs run
χ² / ndf 1.315e+04 / 92
p0 341.1 ± 0.2538
460
440
420
400
380
360
340
320
300

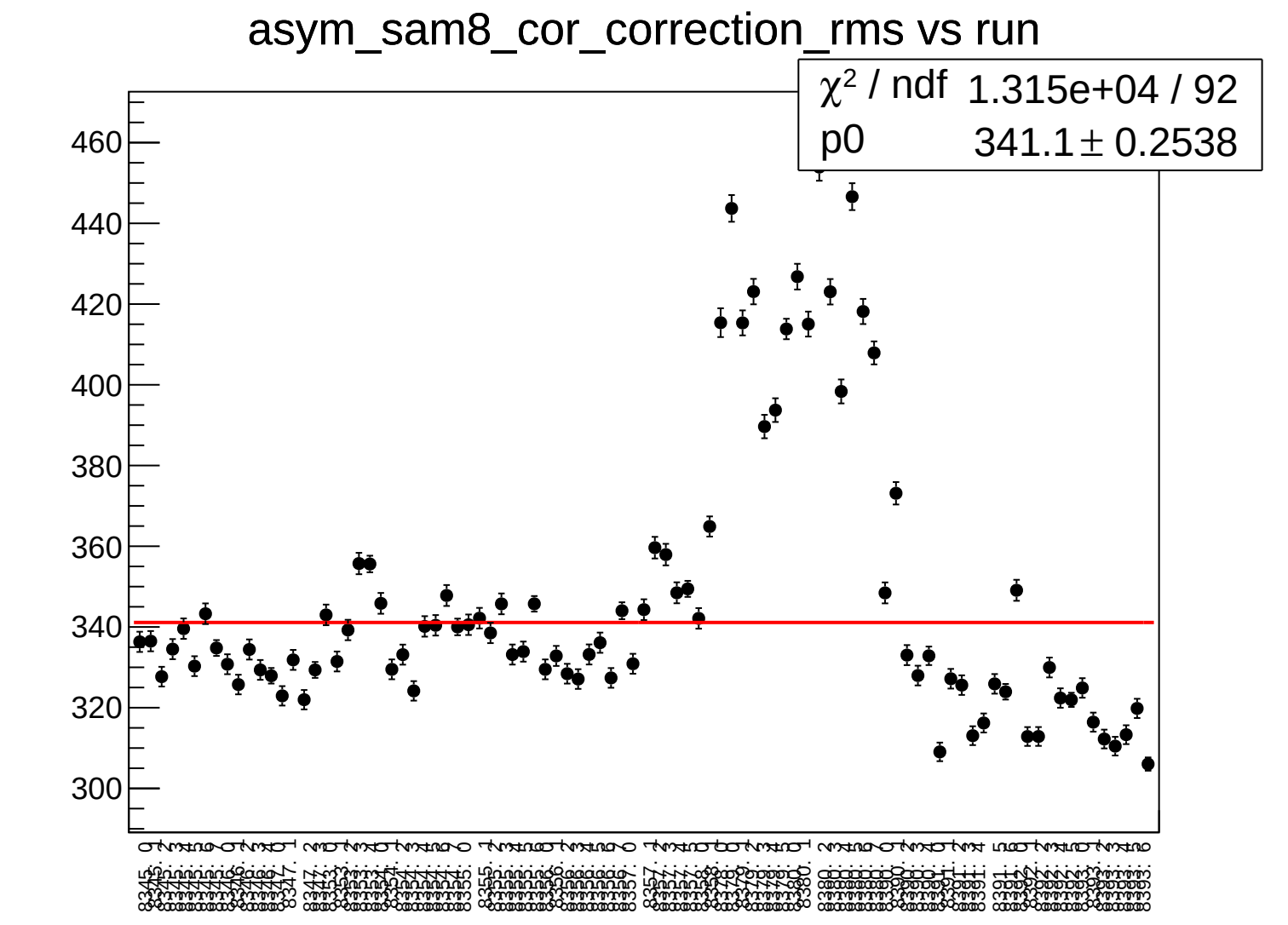

cor_asym_sam8_mean vs run
χ² / ndf 87.71 / 92
p0 −256.3 ± 73.42
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean 117.7
Std Dev 0
2
1
0
−1
−2

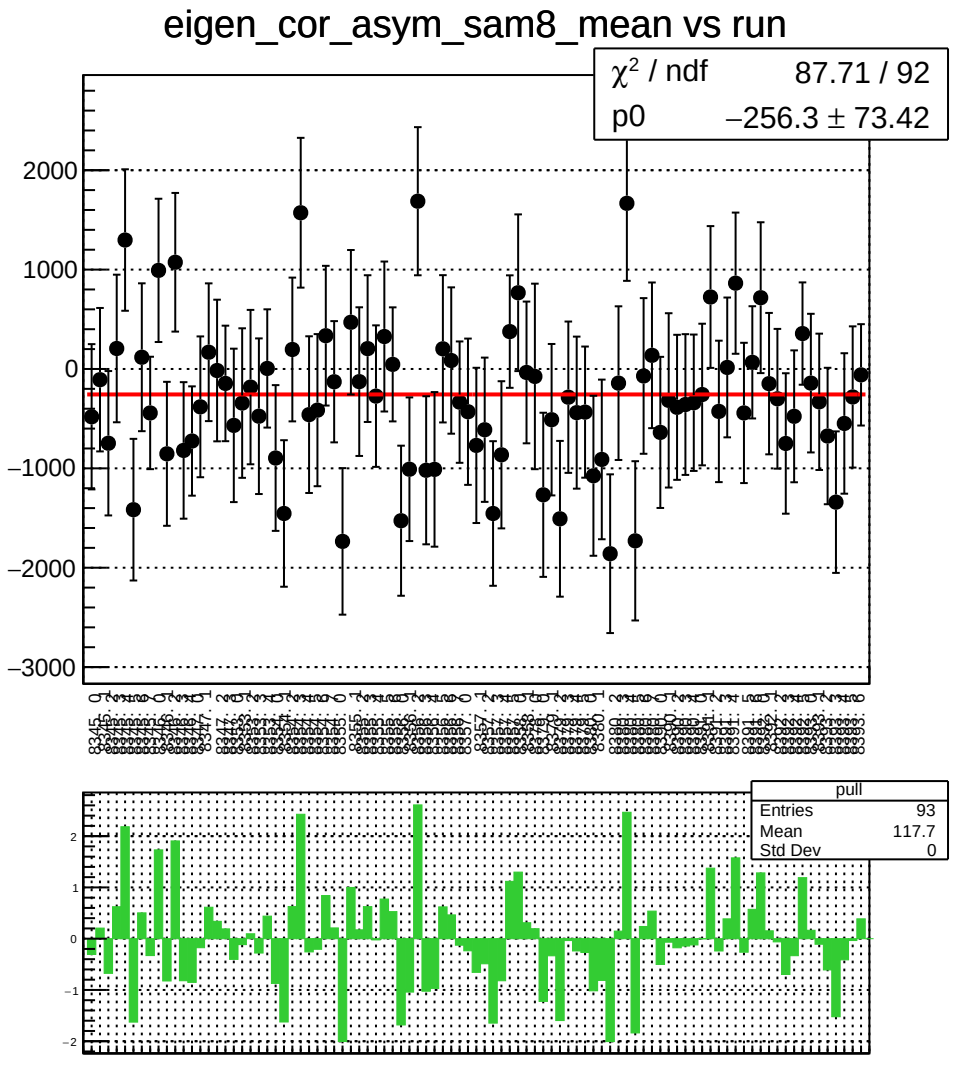

pull1D
Entries 93
Mean −0.01778
Std Dev 0.971
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

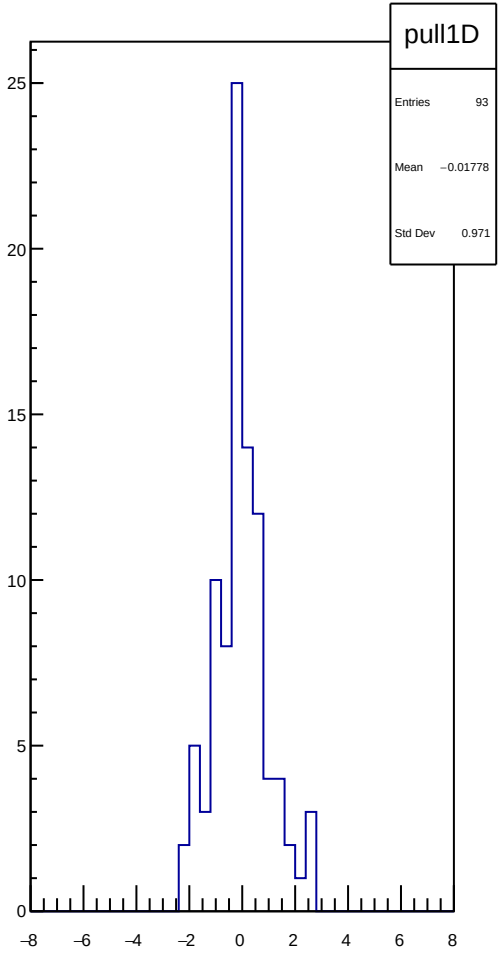

cor_asym_sam8_rms vs run
χ² / ndf 4057 / 92
p0 69.94 ± 0.05192
85
80
75
70
65

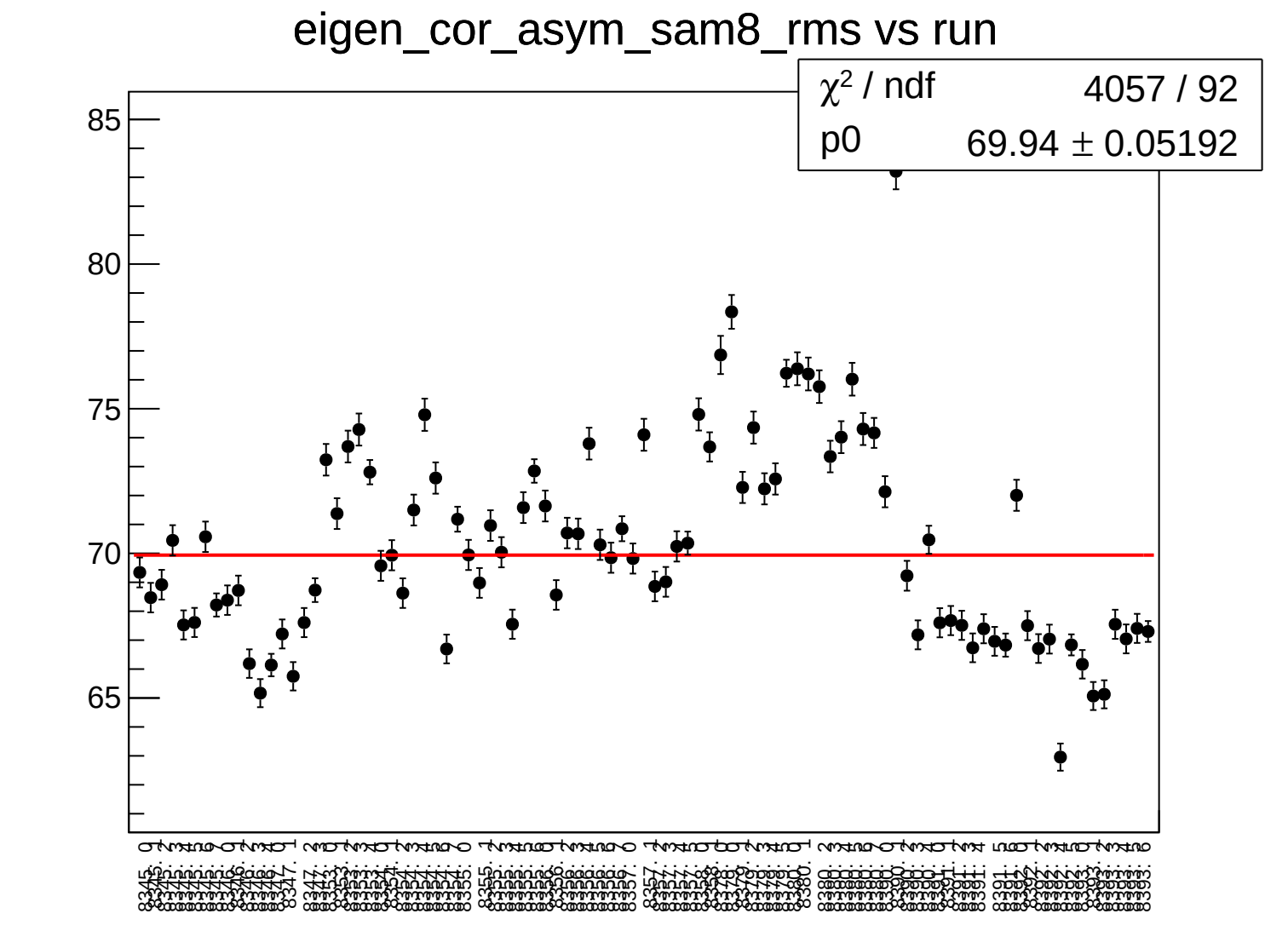

asym_sam8_cor_correction_mean vs run
χ² / ndf 110.9 / 92
p0 −1140 ± 359
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −452.4
Std Dev 0
3
2
1
0
−1
−2
−3

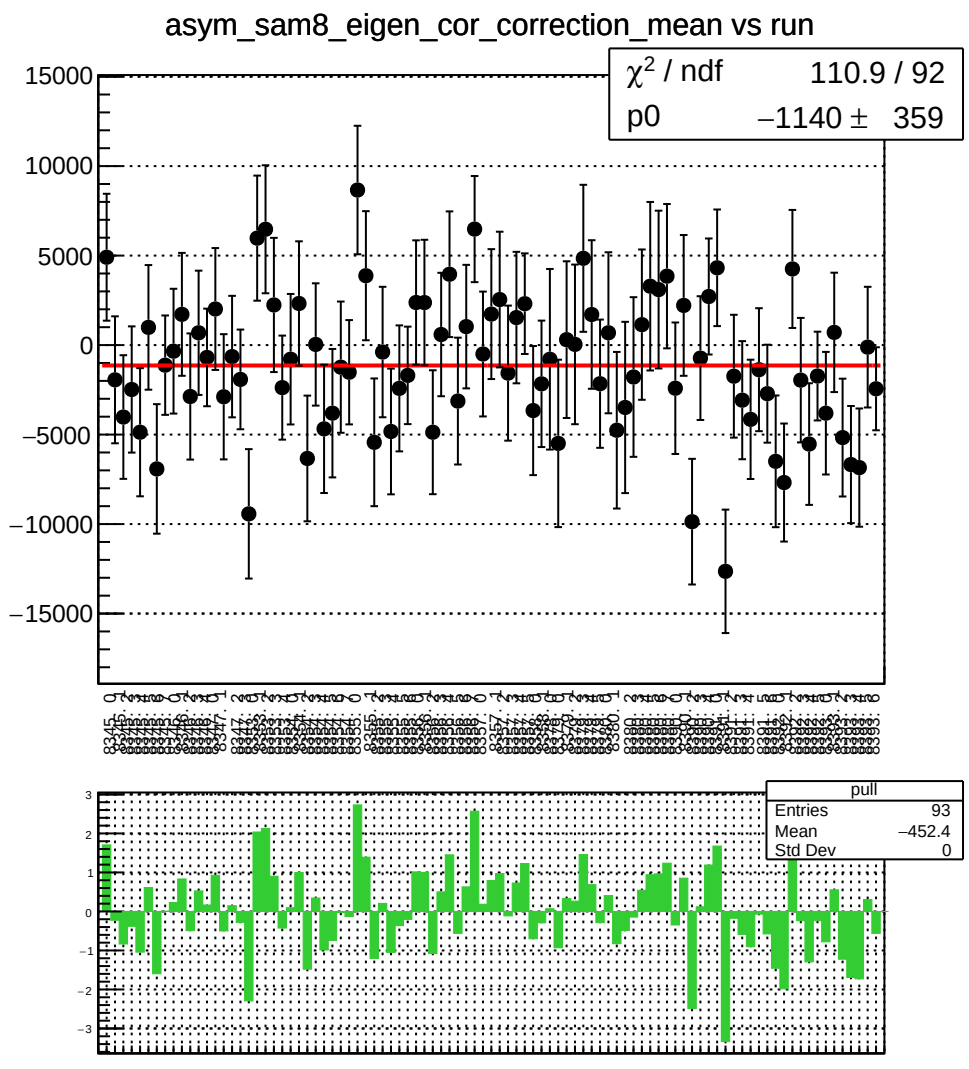

pull1D
Entries 93
Mean 0.01022
Std Dev 1.092
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

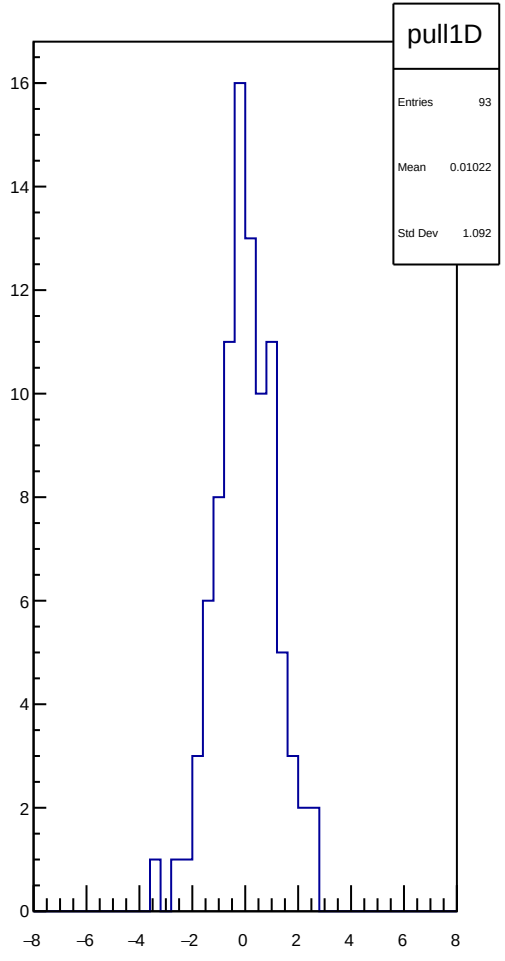

asym_sam8_cor_correction_rms vs run
χ² / ndf 1.315e+04 / 92
p0 341.1 ± 0.2538
460
440
420
400
380
360
340
320
300

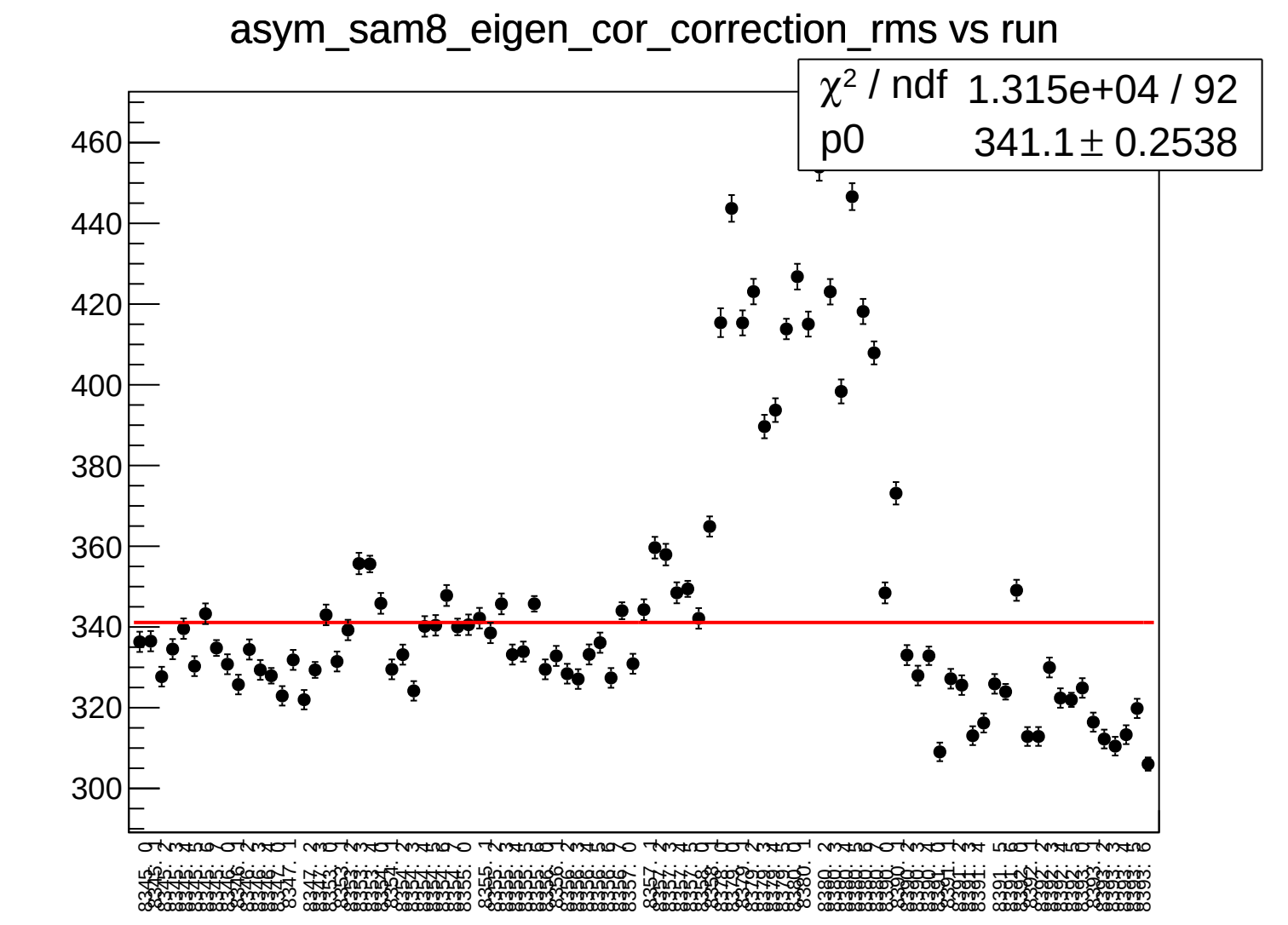

eigen_cor_asym_sam8_mean vs run
χ² / ndf 87.71 / 92
p0 −256.3 ± 73.42
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean 117.7
Std Dev 0
2
1
0
−1
−2

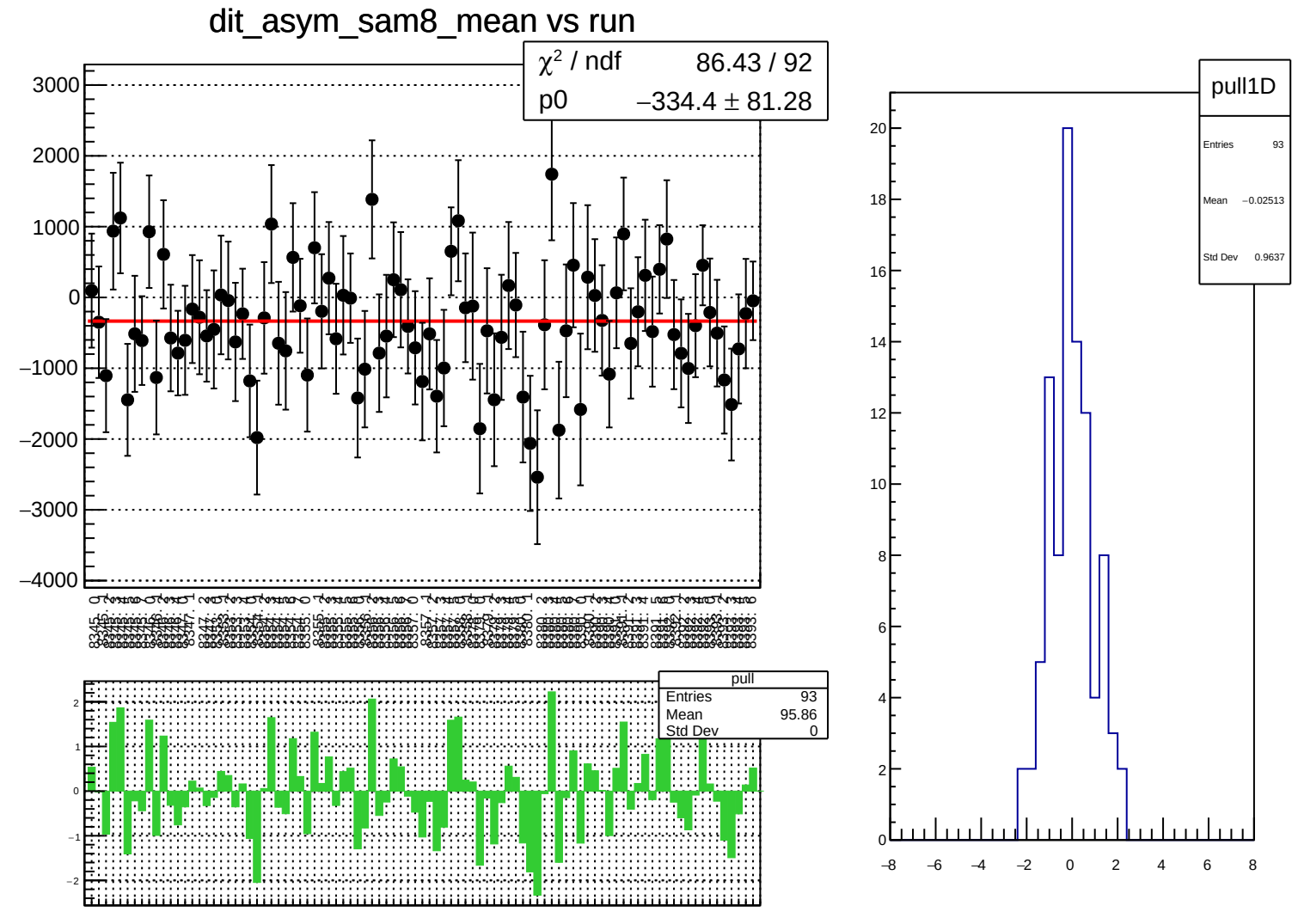

pull1D
Entries 93
Mean −0.01778
Std Dev 0.971
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

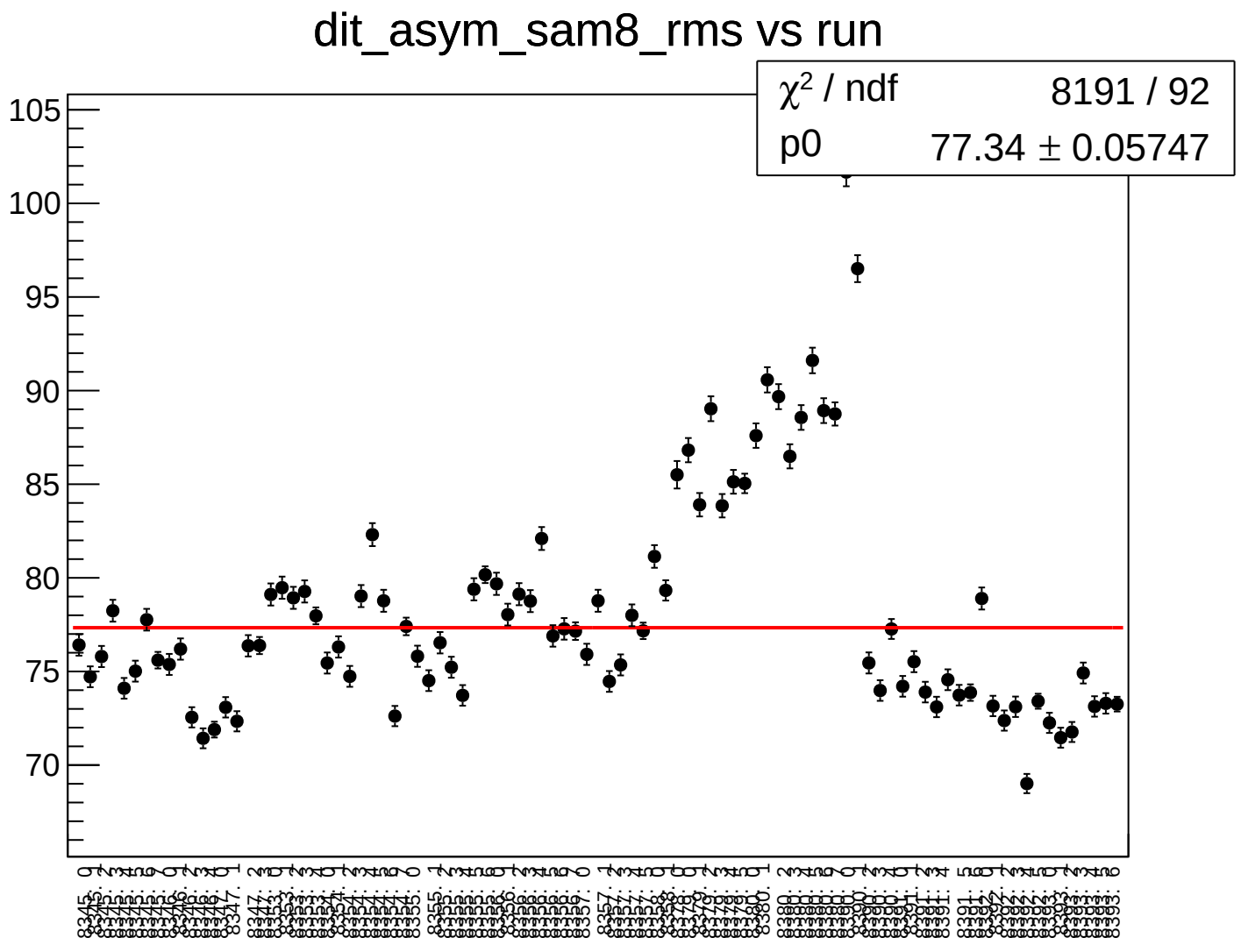

eigen_cor_asym_sam8_rms vs run
χ² / ndf 4057 / 92
p0 69.94 ± 0.05192
85
80
75
70
65

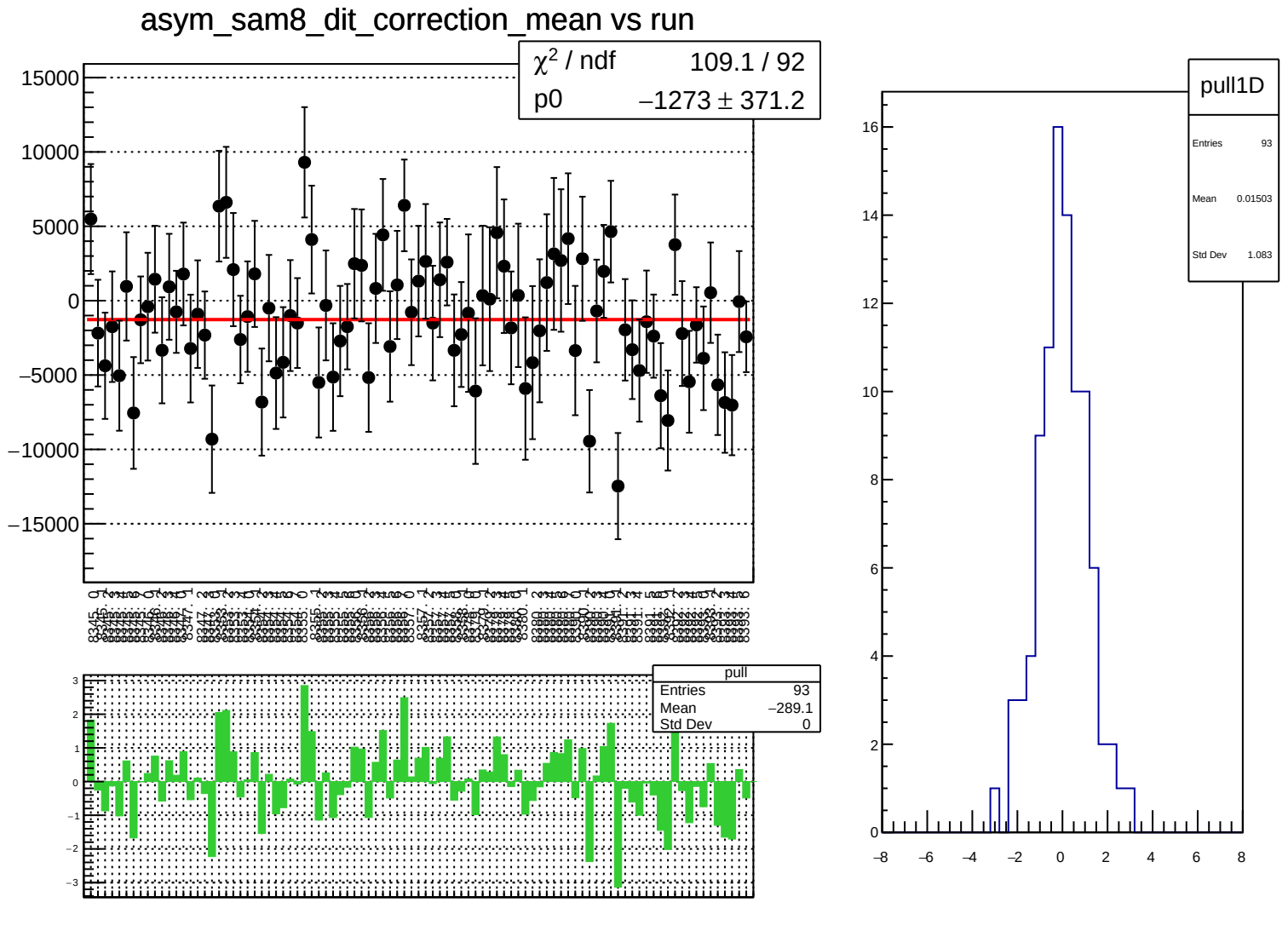

asym_sam8_eigen_cor_correction_mean vs run
χ² / ndf 110.9 / 92
p0 −1140 ± 359
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −452.4
Std Dev 0
3
2
1
0
−1
−2
−3

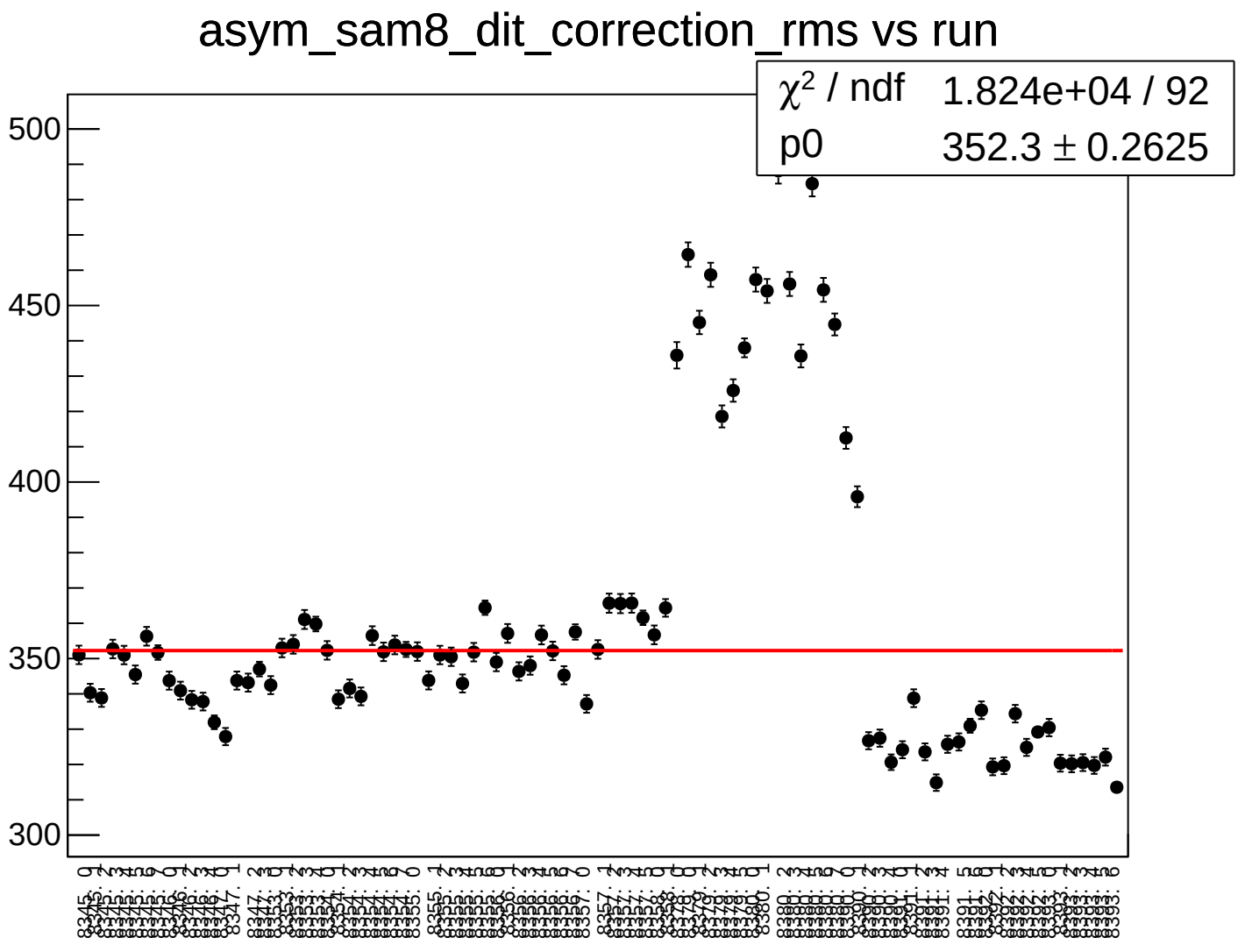

pull1D
Entries 93
Mean 0.01022
Std Dev 1.092
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

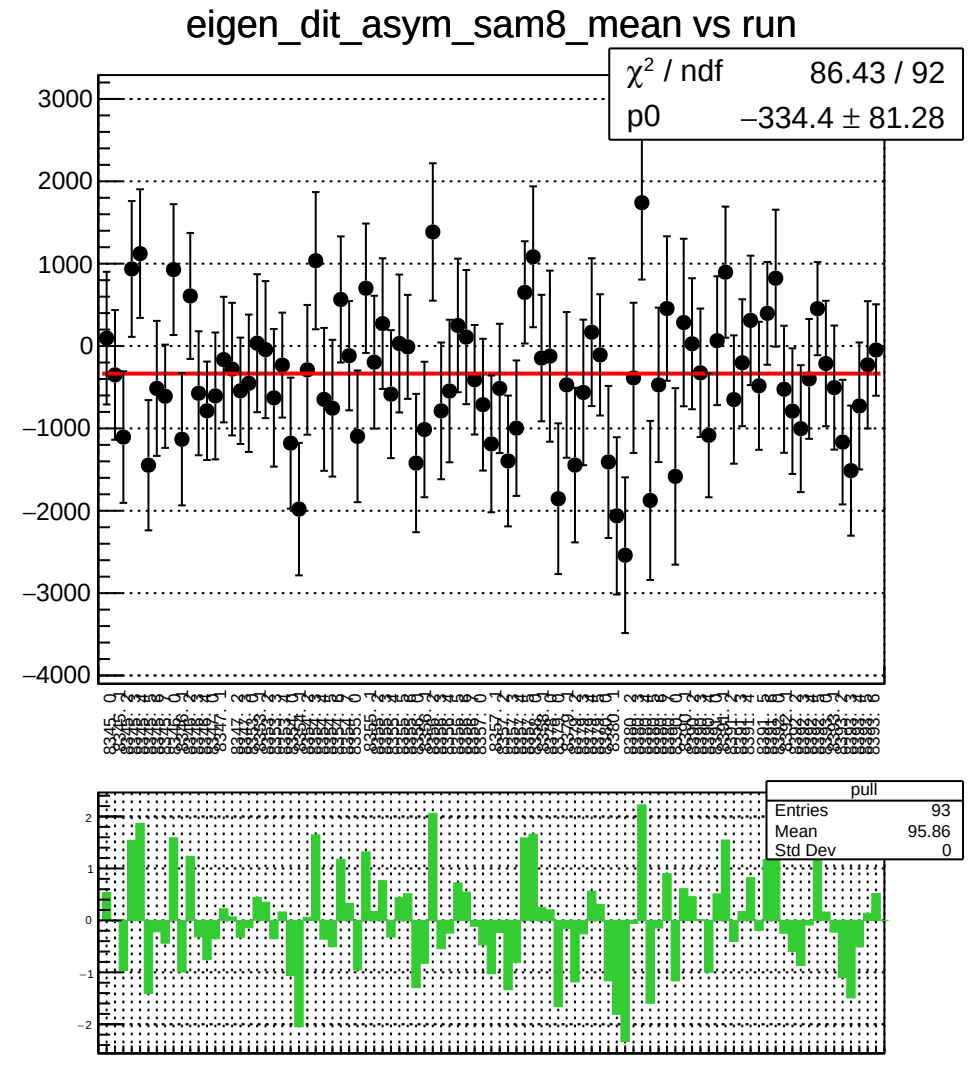

asym_sam8_eigen_cor_correction_rms vs run
χ² / ndf 1.315e+04 / 92
p0 341.1 ± 0.2538
460
440
420
400
380
360
340
320
300

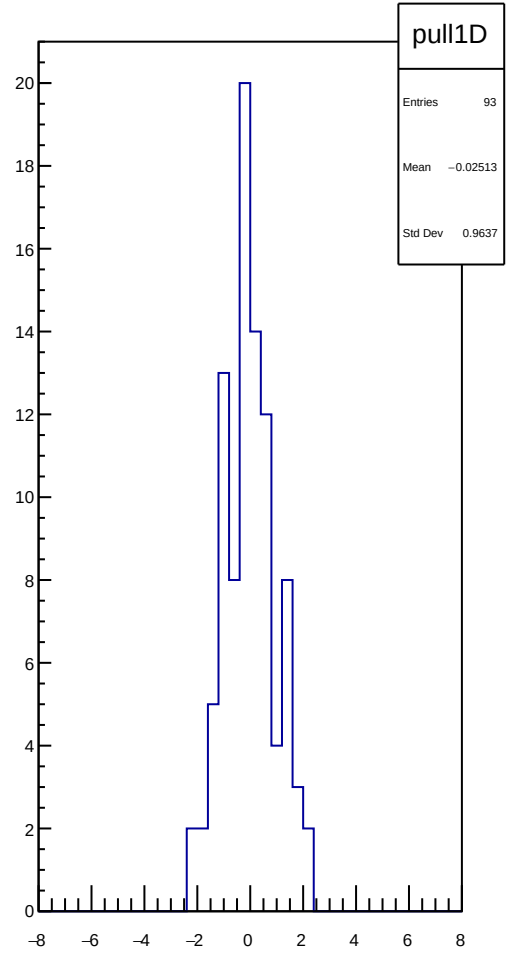

dit_asym_sam8_mean vs run
χ² / ndf 86.43 / 92
p0 −334.4 ± 81.28
pull
Entries 93
Mean 95.86
Std Dev 0
pull1D
Entries 93
Mean −0.02513
Std Dev 0.9637

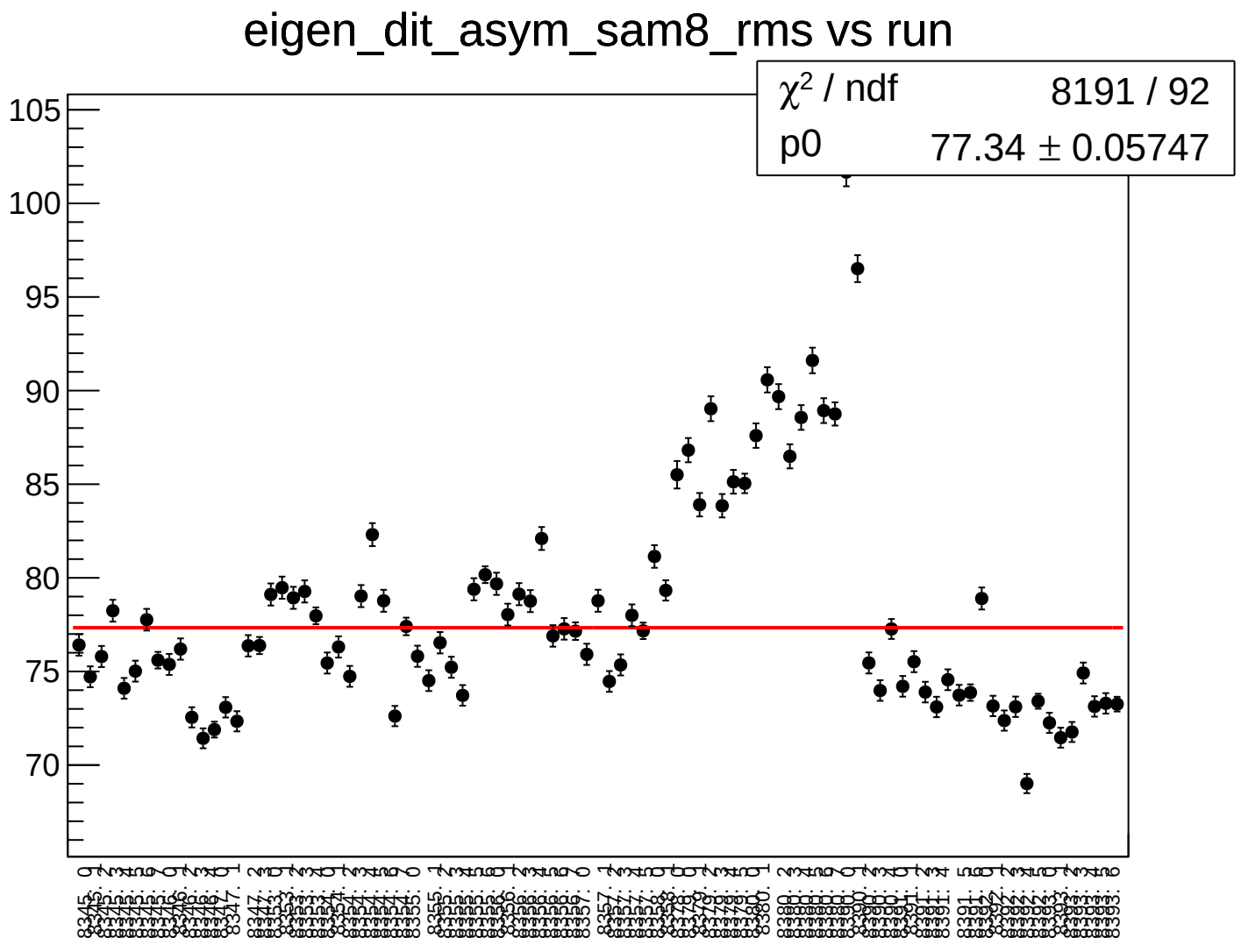

dit_asym_sam8_rms vs run
χ^2 / ndf 8191 / 92
p0 77.34 ± 0.05747
105
100
95
90
85
80
75
70

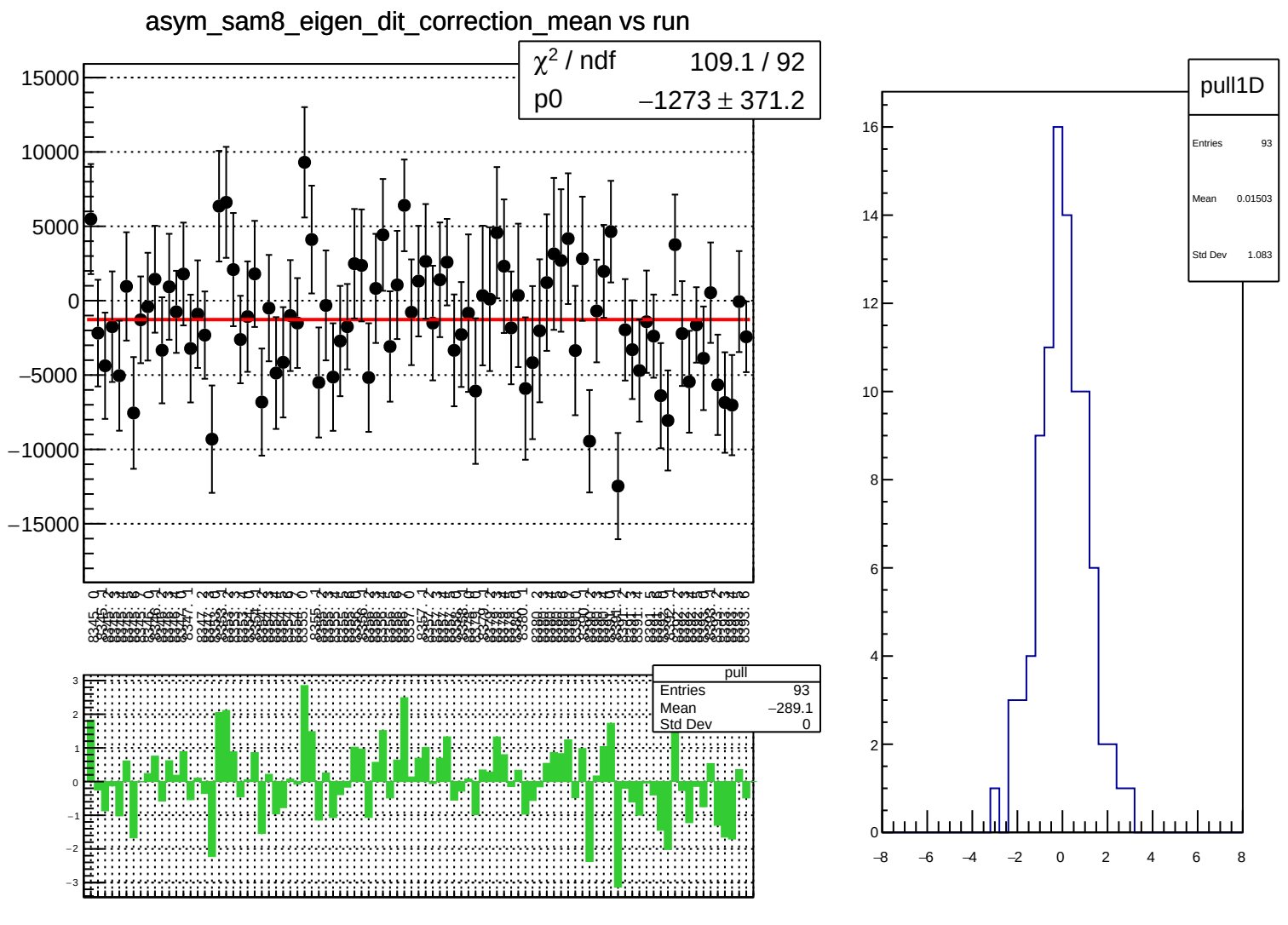

asym_sam8_dit_correction_mean vs run
χ² / ndf 109.1 / 92
p0 −1273 ± 371.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −289.1
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.01503
Std Dev 1.083
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

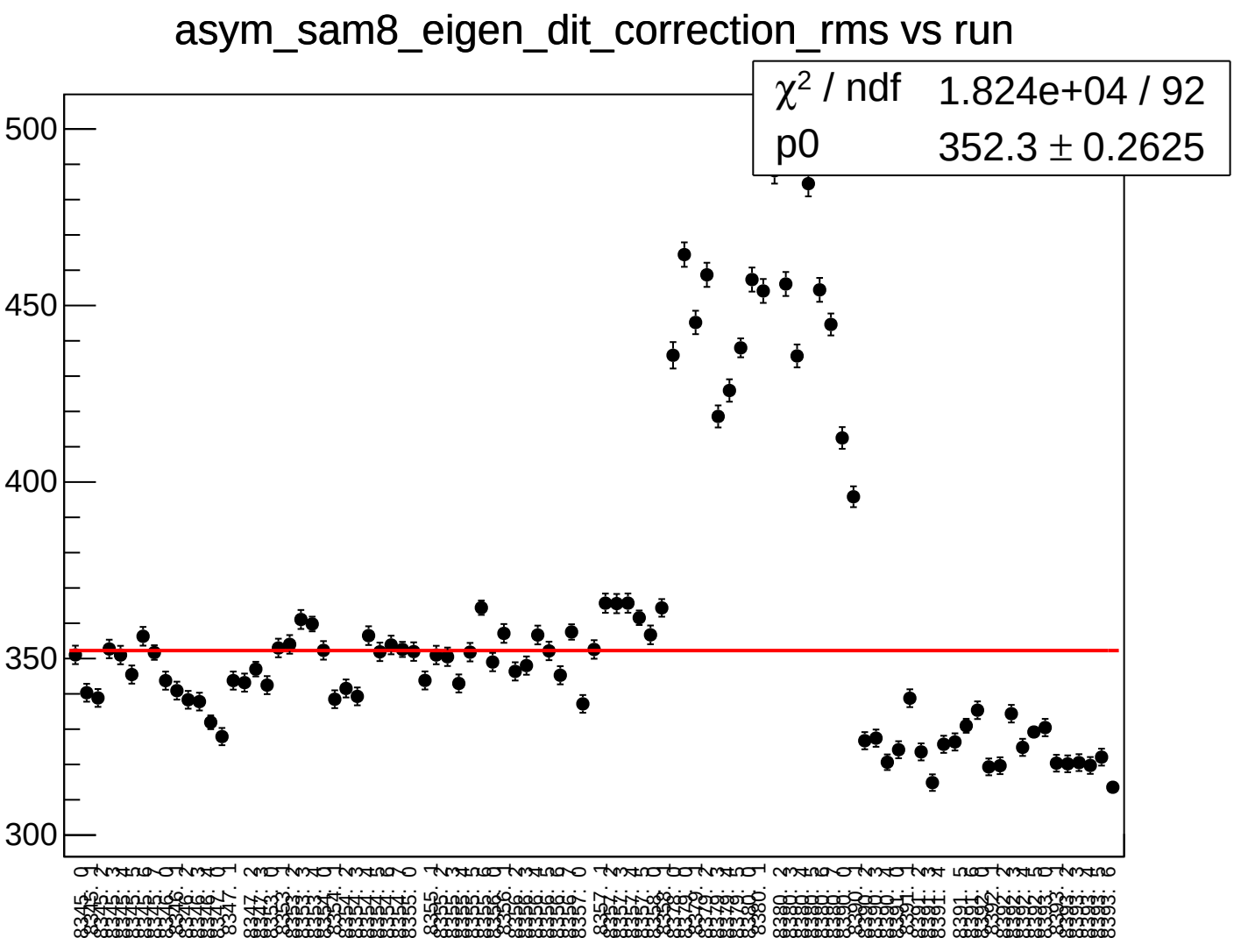

asym_sam8_dit_correction_rms vs run
χ² / ndf 1.824e+04 / 92
p0 352.3 ± 0.2625
500
450
400
350
300

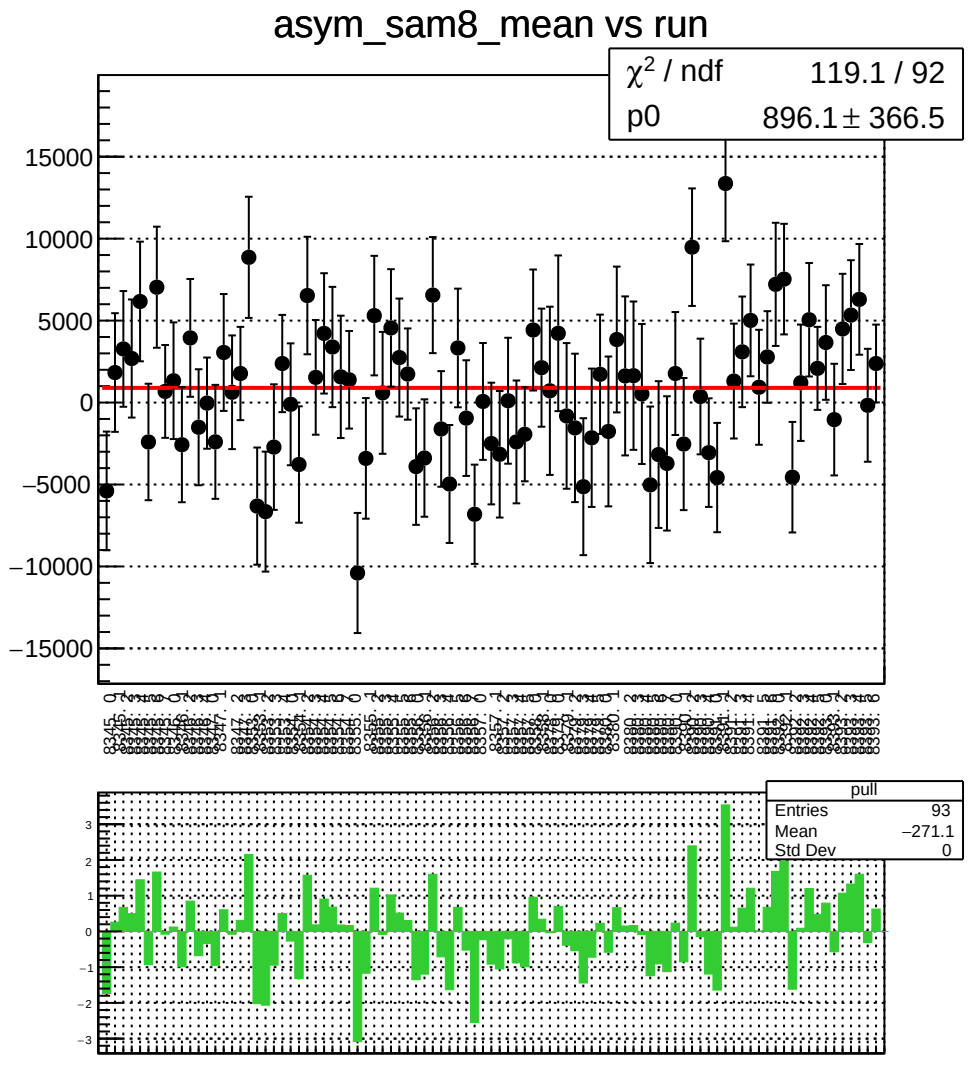

eigen_dit_asym_sam8_mean vs run
χ² / ndf 86.43 / 92
p0 −334.4 ± 81.28
pull
Entries 93
Mean 95.86
Std Dev 0

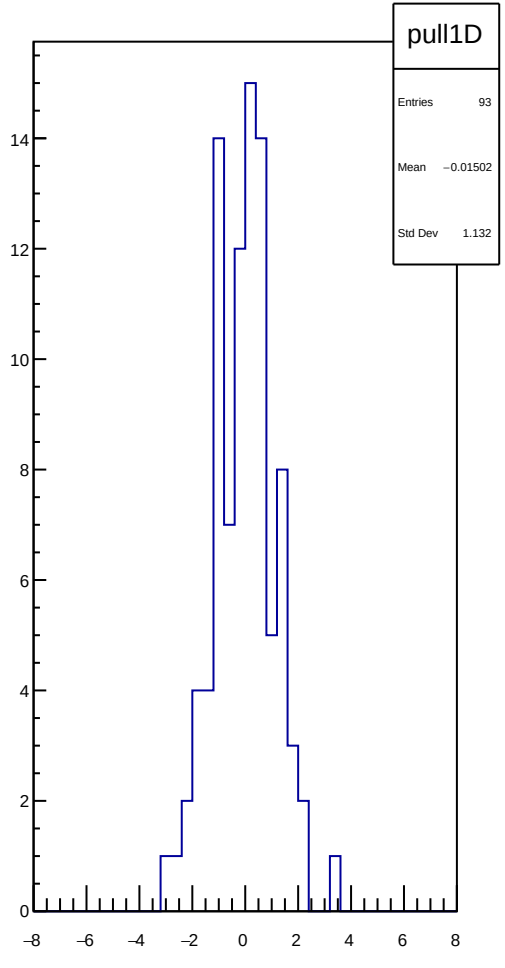

pull1D
Entries 93
Mean −0.02513
Std Dev 0.9637

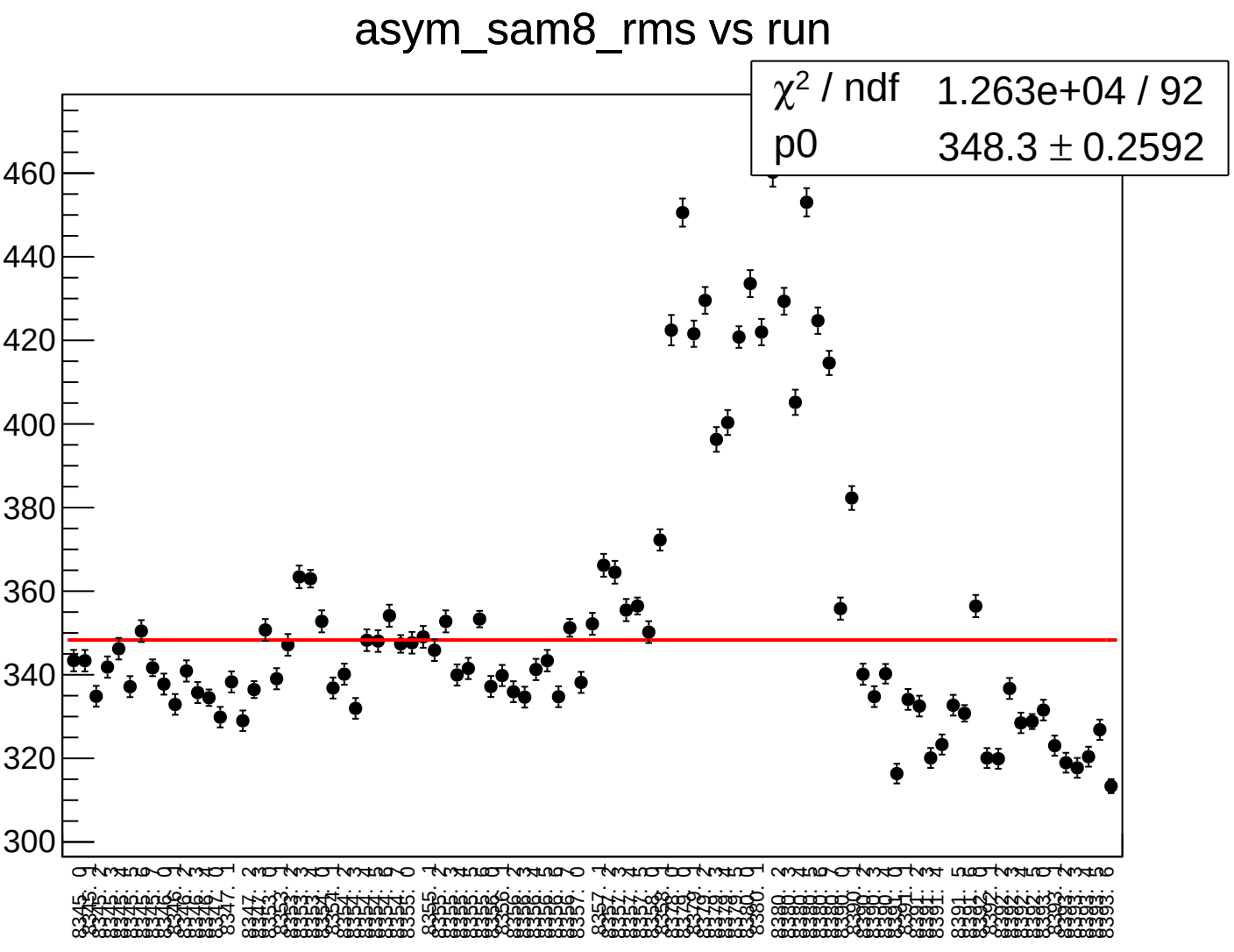

eigen_dit_asym_sam8_rms vs run
χ² / ndf 8191 / 92
p0 77.34 ± 0.05747
105
100
95
90
85
80
75
70

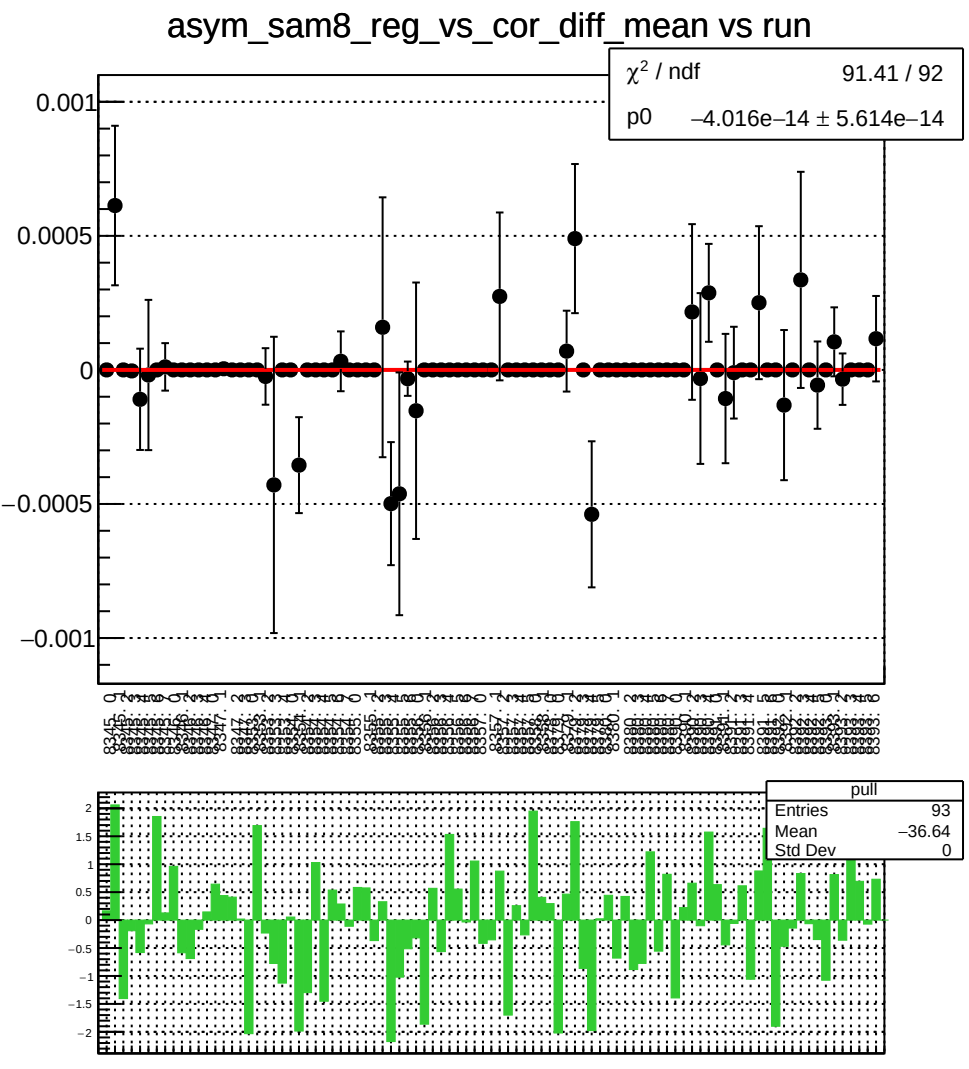

asym_sam8_eigen_dit_correction_mean vs run
χ² / ndf 109.1 / 92
p0 −1273 ± 371.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −289.1
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.01503
Std Dev 1.083
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

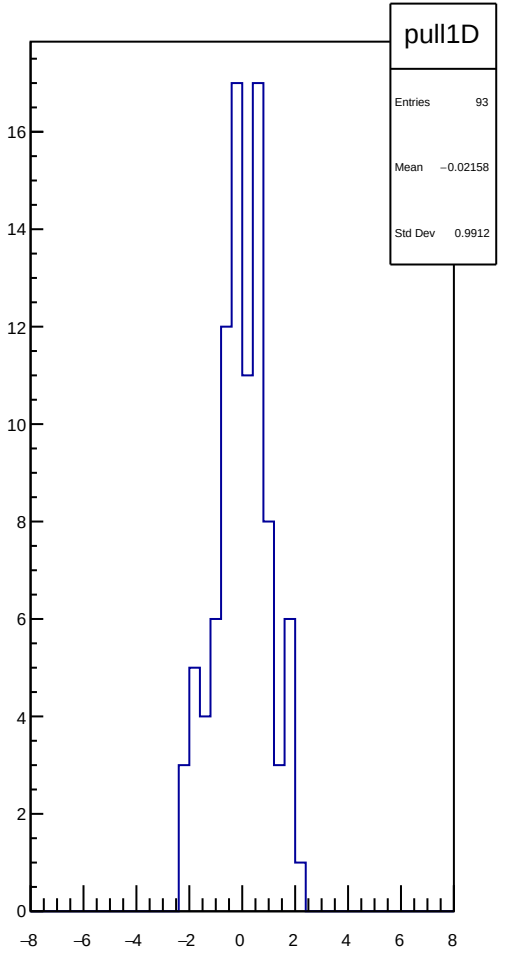

asym_sam8_eigen_dit_correction_rms vs run
χ² / ndf 1.824e+04 / 92
p0 352.3 ± 0.2625
500
450
400
350
300

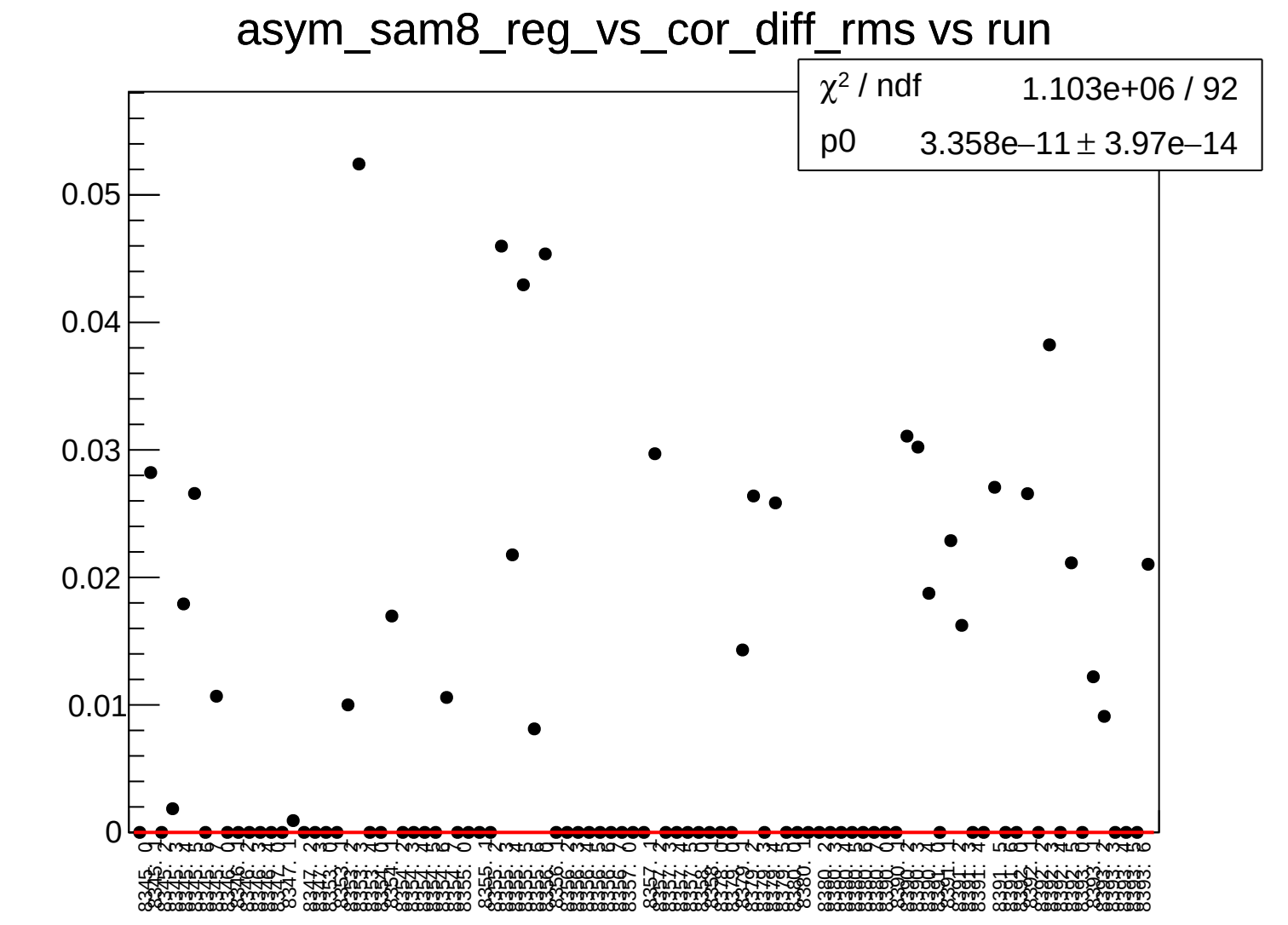

asym_sam8_mean vs run
χ² / ndf 119.1 / 92
p0 896.1 ± 366.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −271.1
Std Dev 0
3
2
1
0
−1
−2
−3

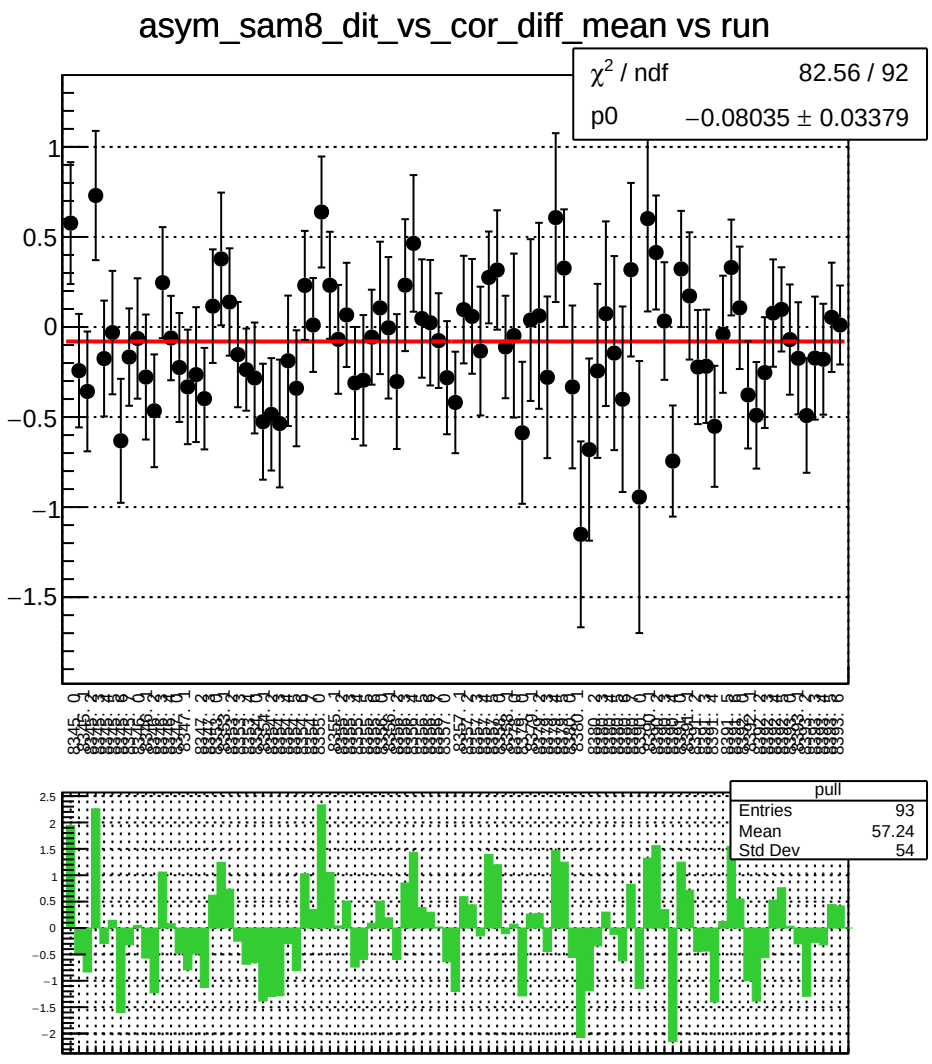

pull1D
Entries 93
Mean −0.01502
Std Dev 1.132
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

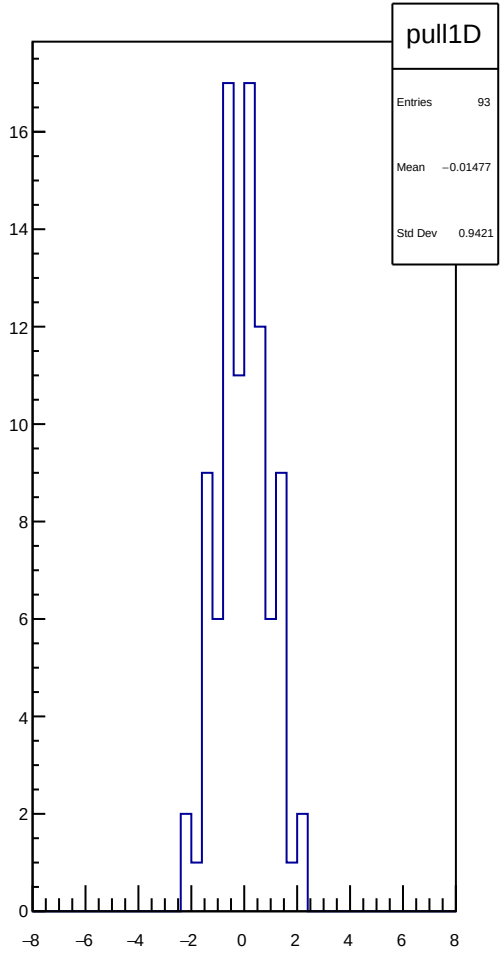

asym_sam8_rms vs run
χ² / ndf 1.263e+04 / 92
p0 348.3 ± 0.2592
460
440
420
400
380
360
340
320
300

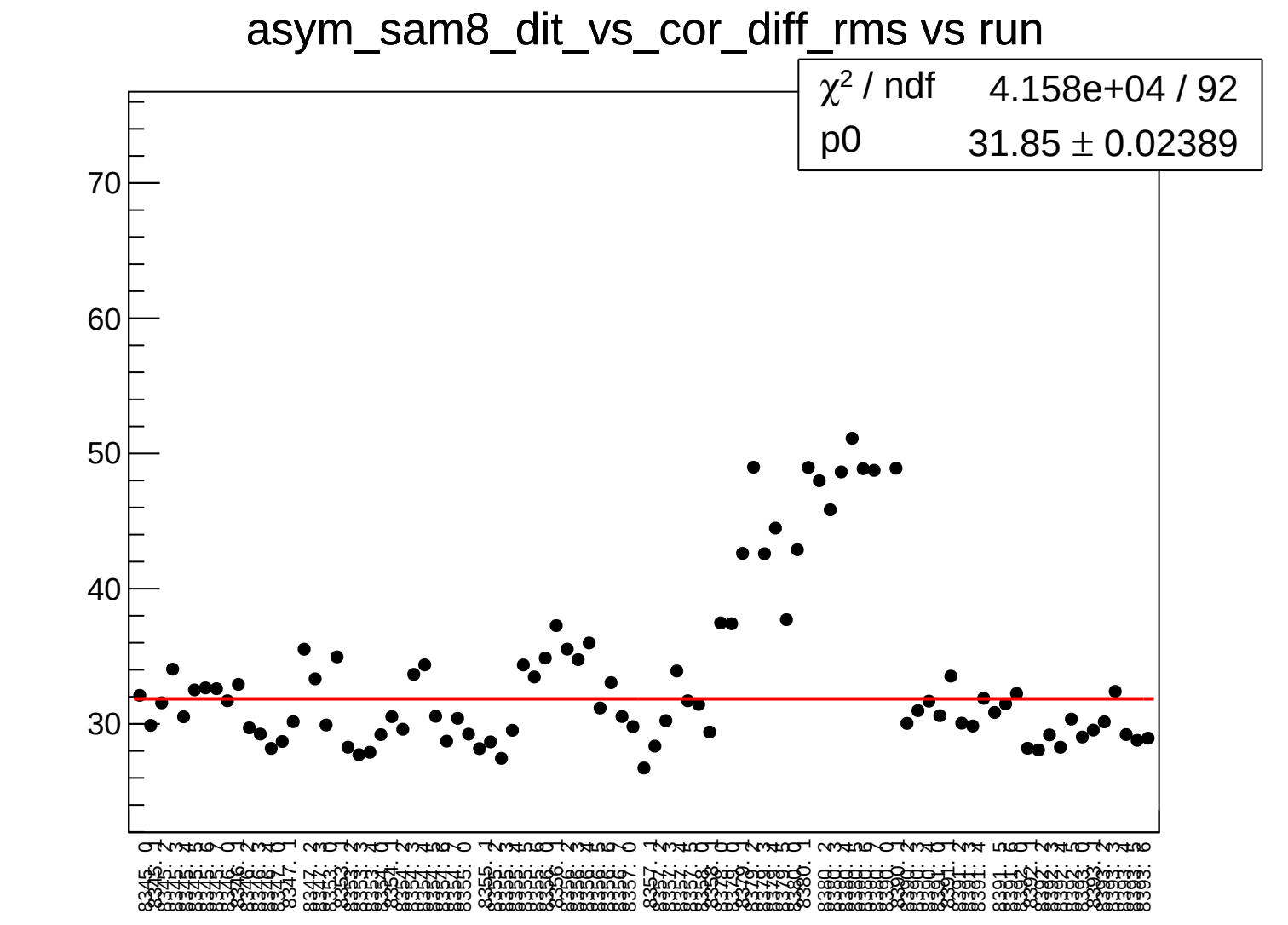

asym_sam8_reg_vs_cor_diff_mean vs run
χ² / ndf 91.41 / 92
p0 −4.016e−14 ± 5.614e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 93
Mean −36.64
Std Dev 0

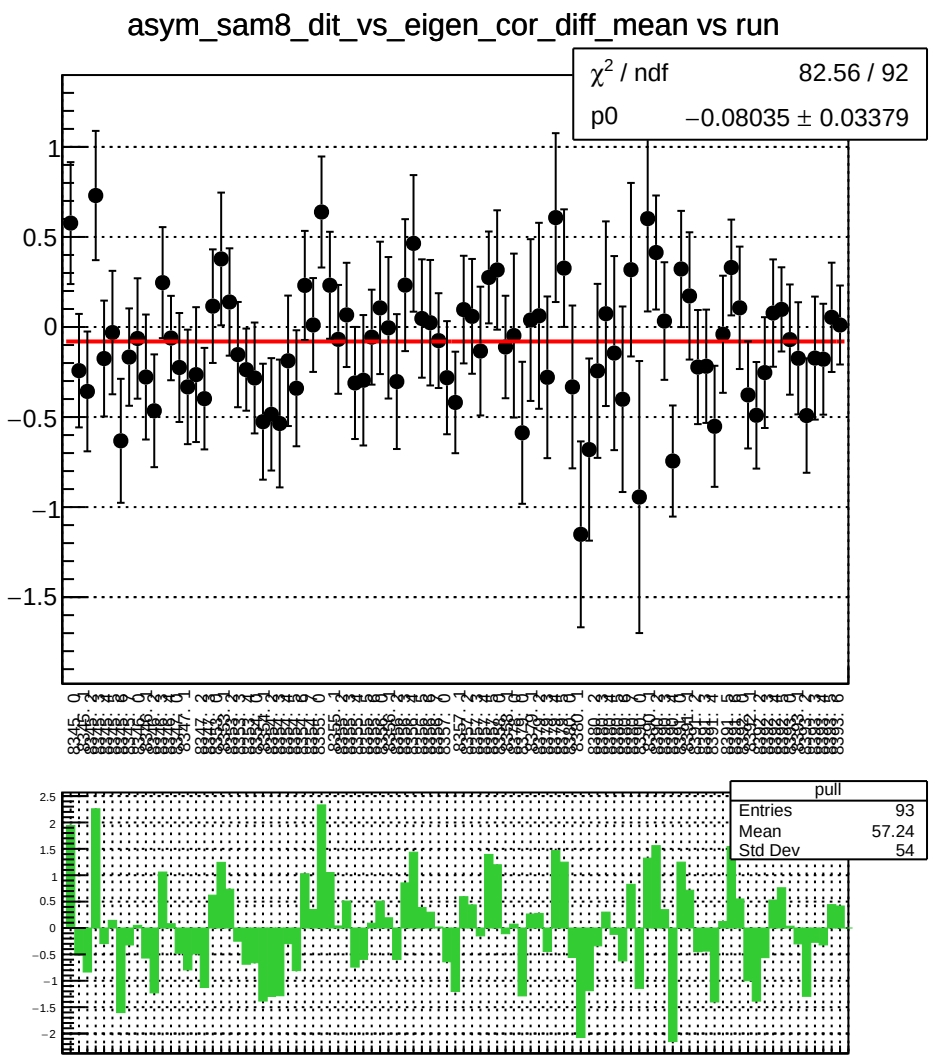

pull1D
Entries 93
Mean −0.02158
Std Dev 0.9912

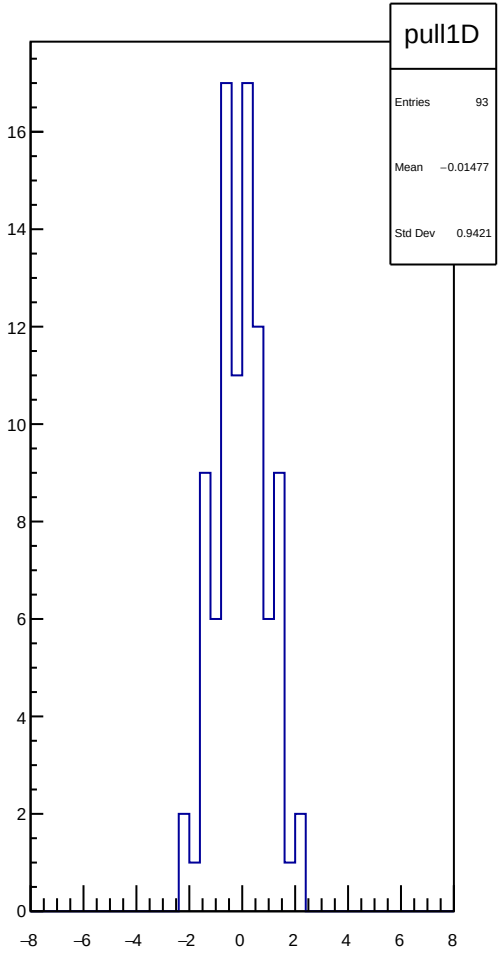

asym_sam8_reg_vs_cor_diff_rms vs run
χ² / ndf 1.103e+06 / 92
p0 3.358e−11 ± 3.97e−14
0.05
0.04
0.03
0.02
0.01
0

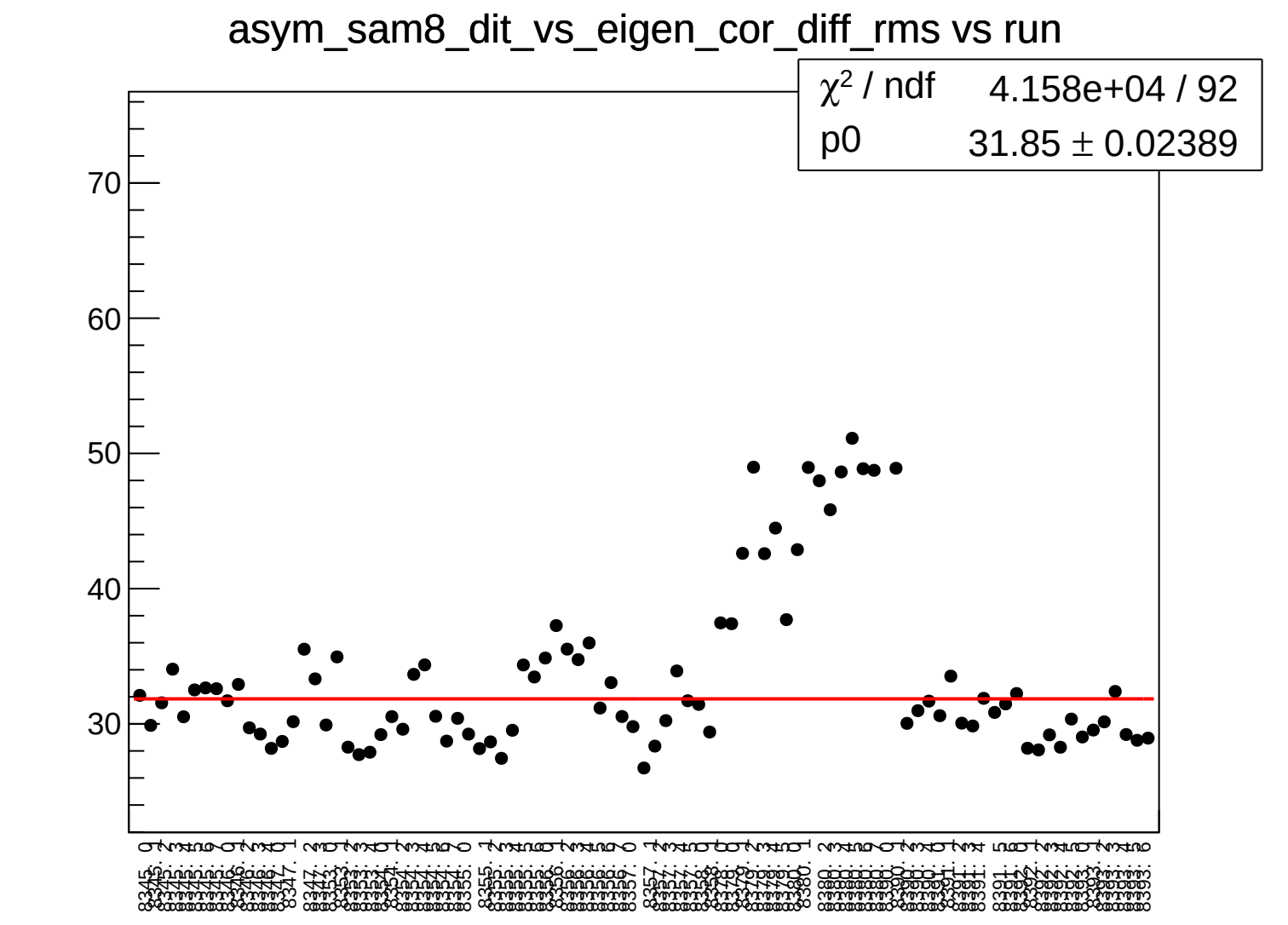

asym_sam8_dit_vs_cor_diff_mean vs run
χ² / ndf 82.56 / 92
p0 −0.08035 ± 0.03379
pull
Entries 93
Mean 57.24
Std Dev 54

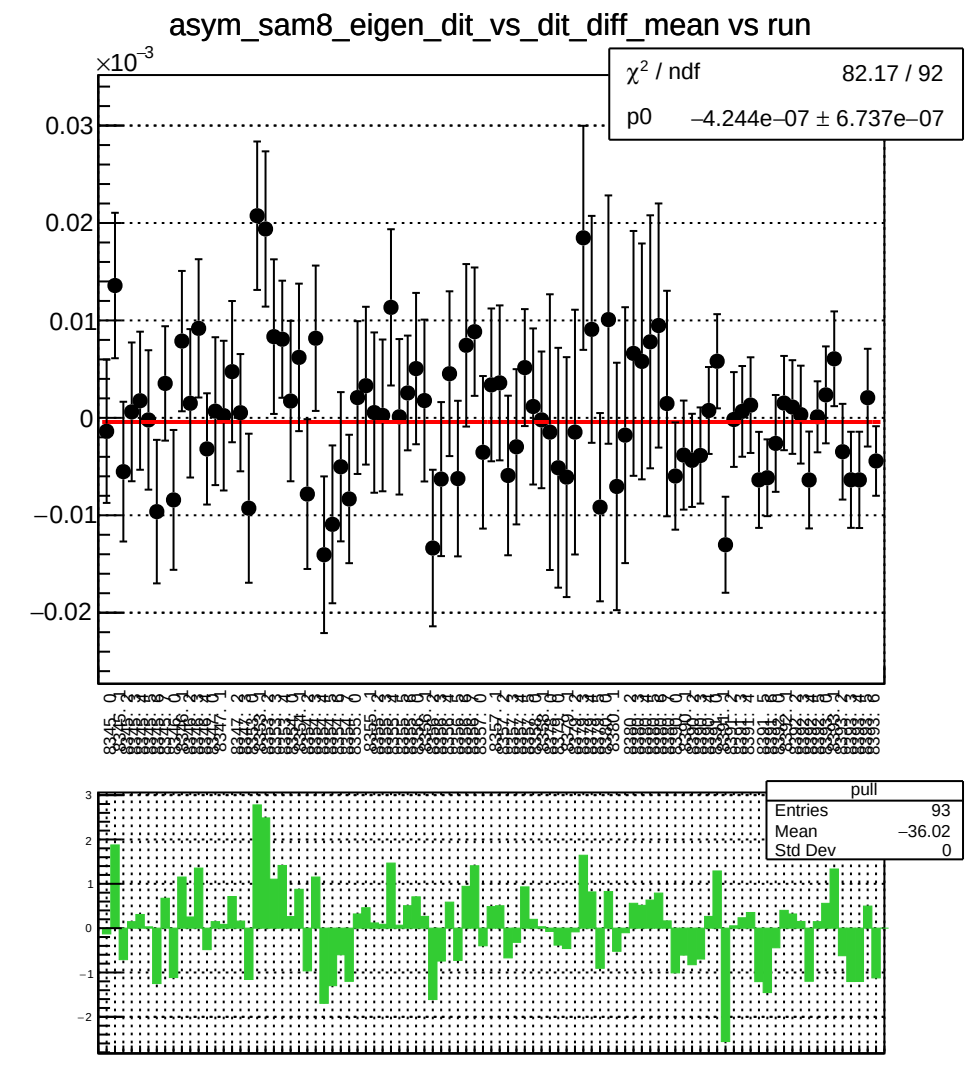

pull1D
Entries 93
Mean −0.01477
Std Dev 0.9421

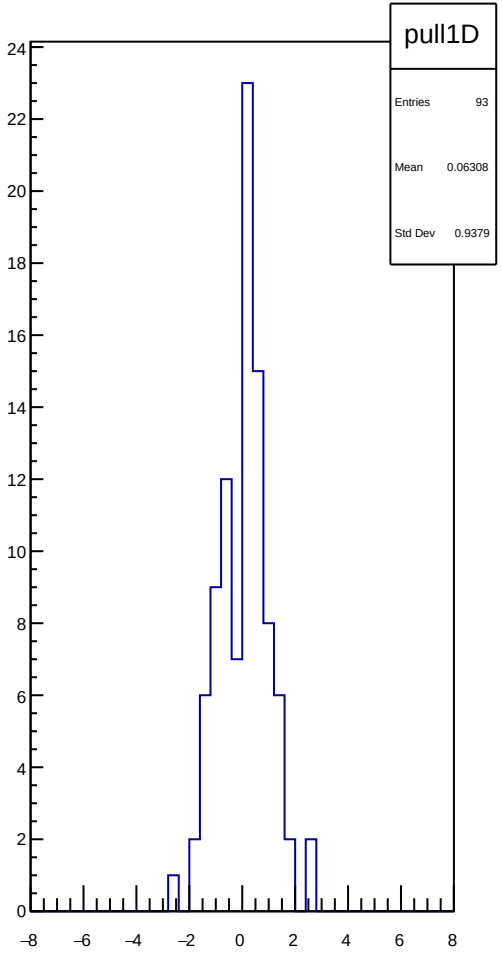

asym_sam8_dit_vs_cor_diff_rms vs run
χ^2 / ndf 4.158e+04 / 92
p0 31.85 ± 0.02389
70
60
50
40
30

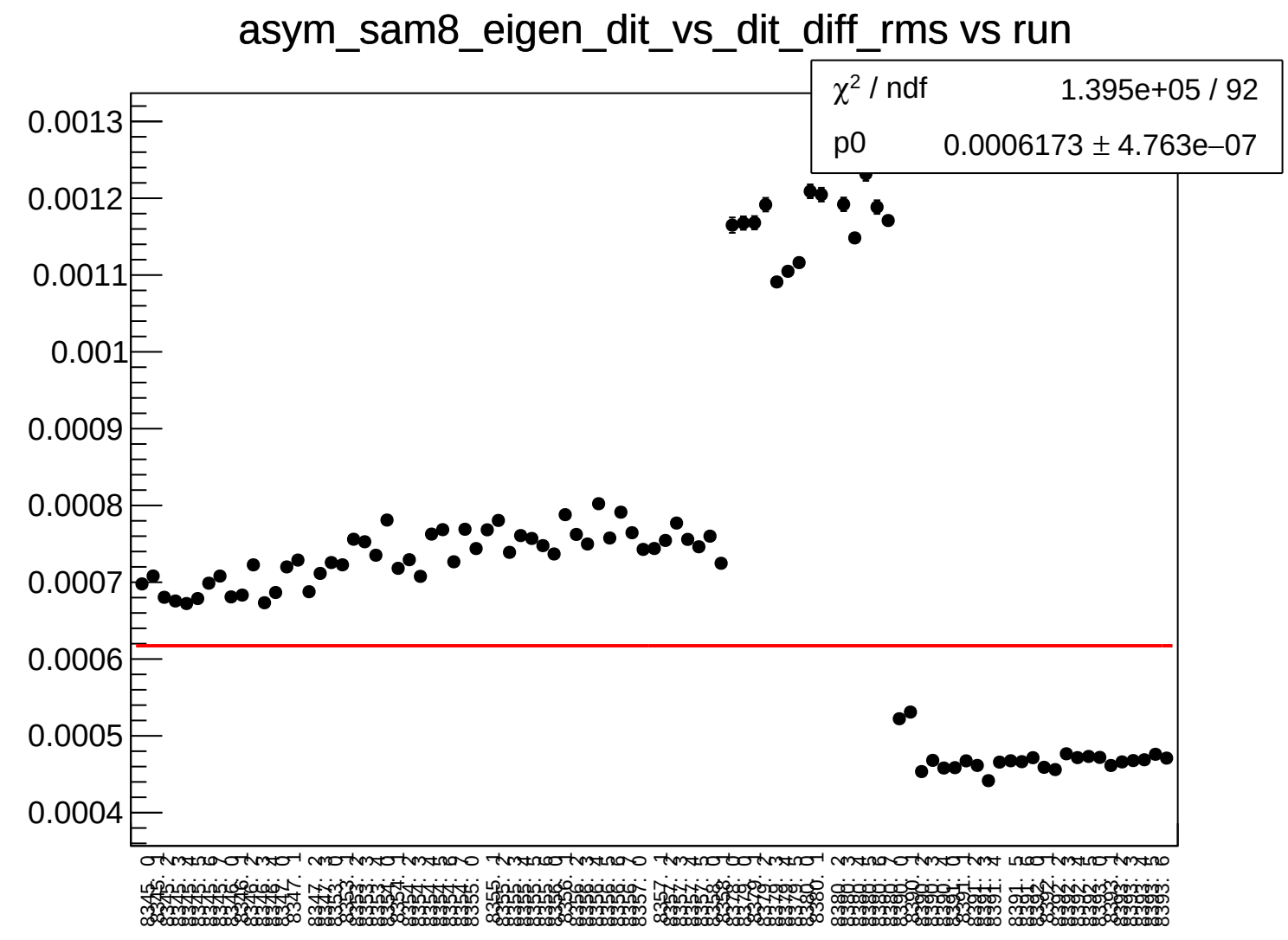

asym_sam8_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.56 / 92
p0 −0.08035 ± 0.03379
pull
Entries 93
Mean 57.24
Std Dev 54

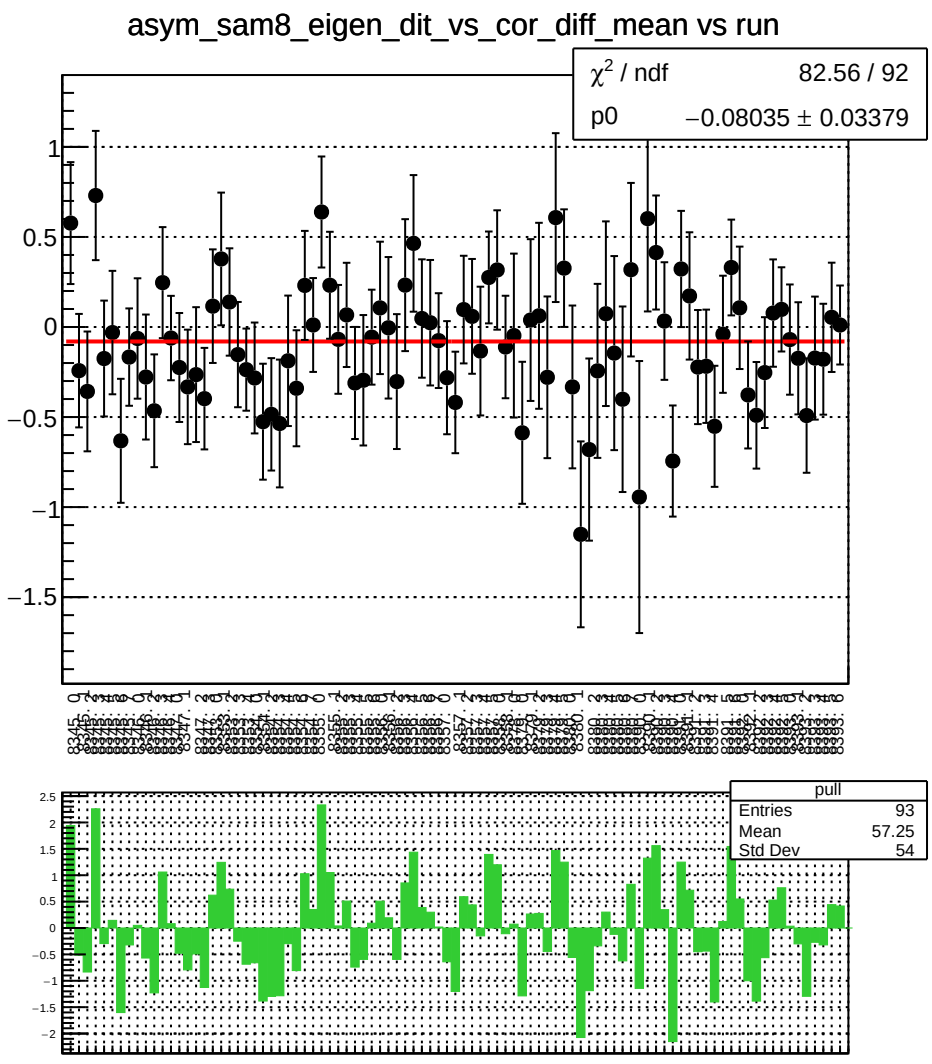

pull1D
Entries 93
Mean −0.01477
Std Dev 0.9421

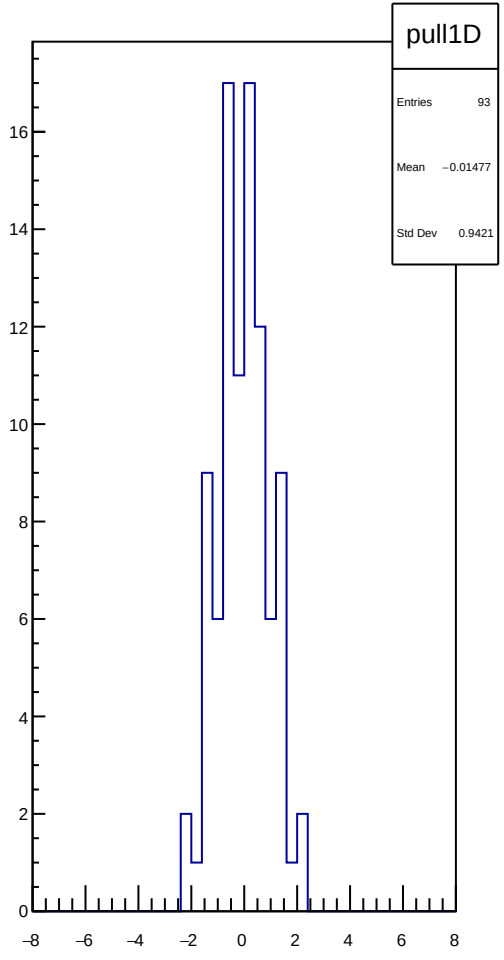

asym_sam8_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 4.158e+04 / 92
p0 31.85 ± 0.02389
70
60
50
40
30

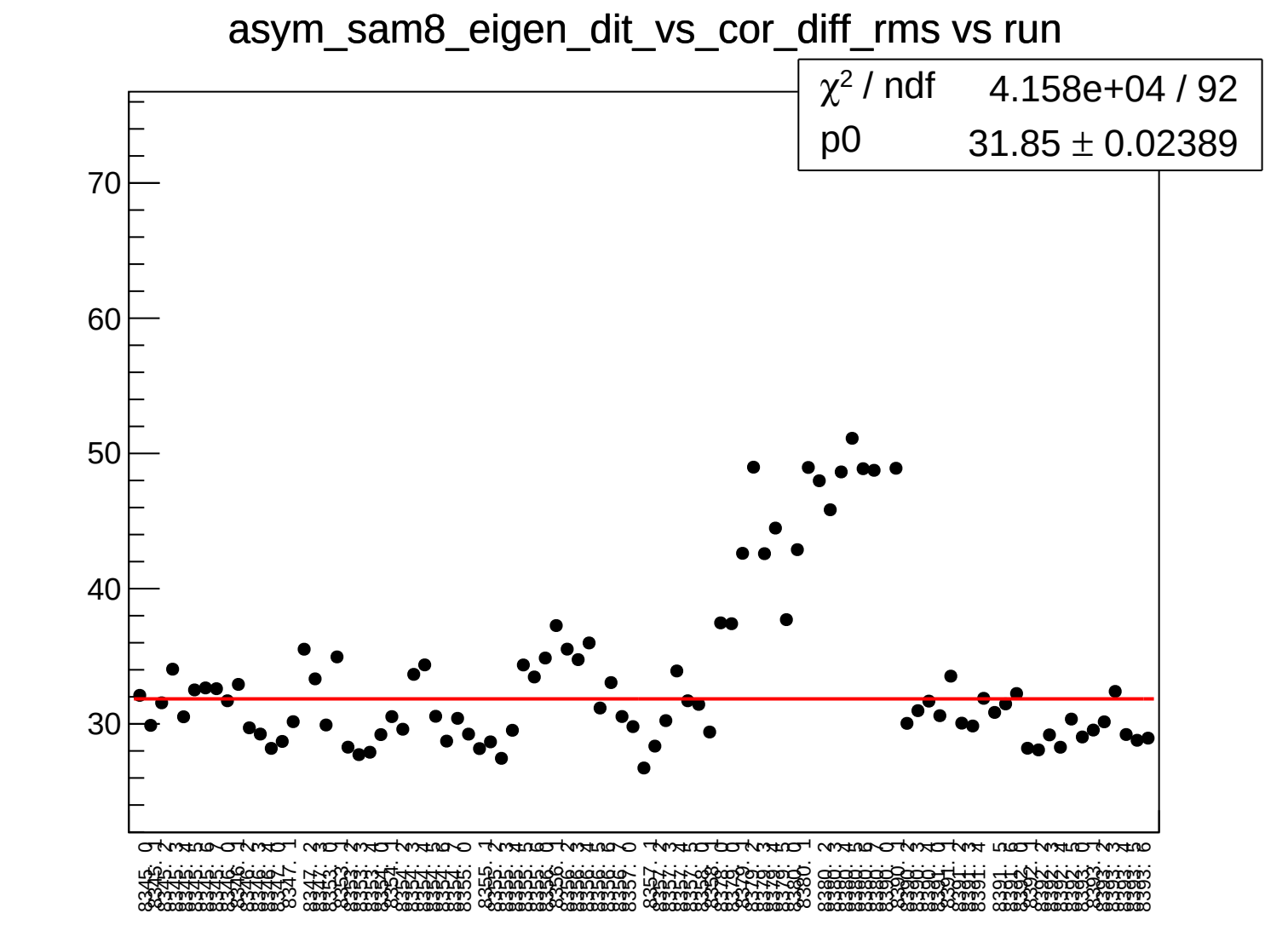

asym_sam8_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 82.17 / 92
p0 −4.244e−07 ± 6.737e−07
pull
Entries 93
Mean −36.02
Std Dev 0

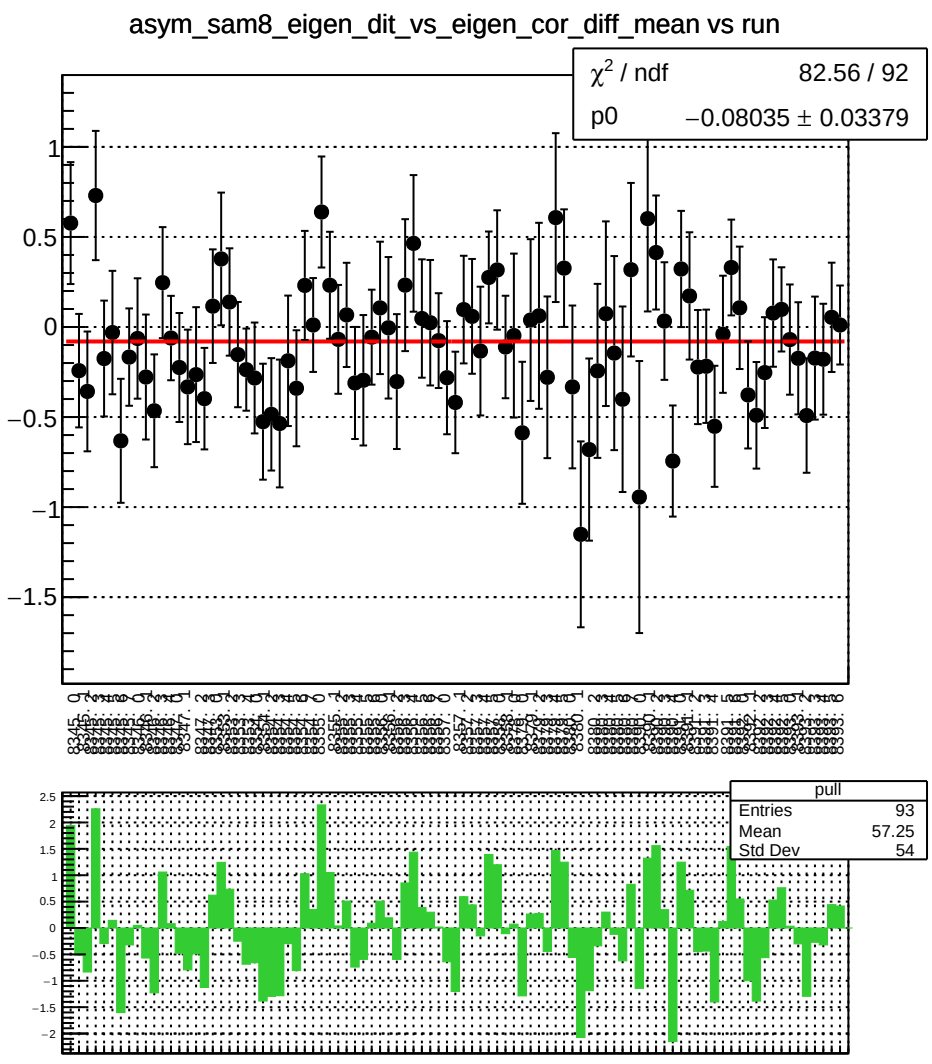

pull1D
Entries 93
Mean 0.06308
Std Dev 0.9379

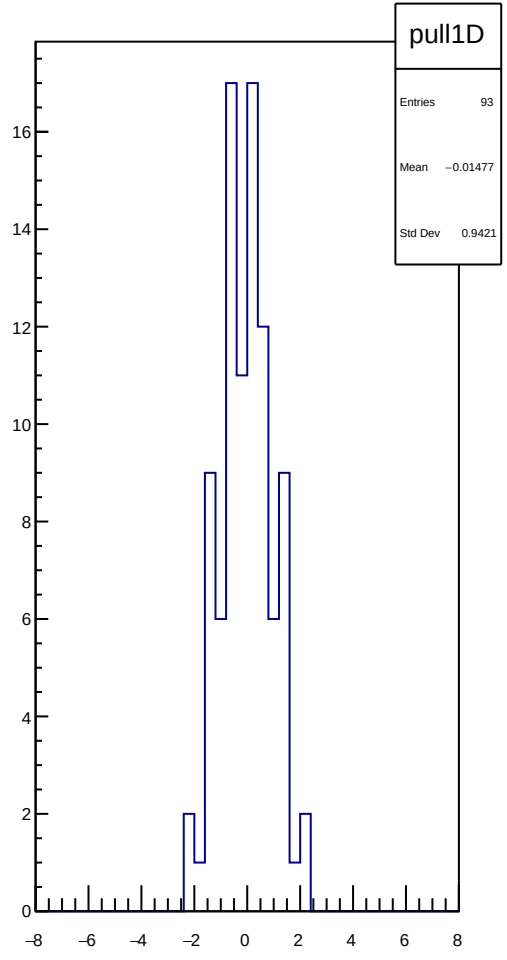

asym_sam8_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.395e+05 / 92
p0 0.0006173 ± 4.763e−07
0.0013
0.0012
0.0011
0.001
0.0009
0.0008
0.0007
0.0006
0.0005
0.0004

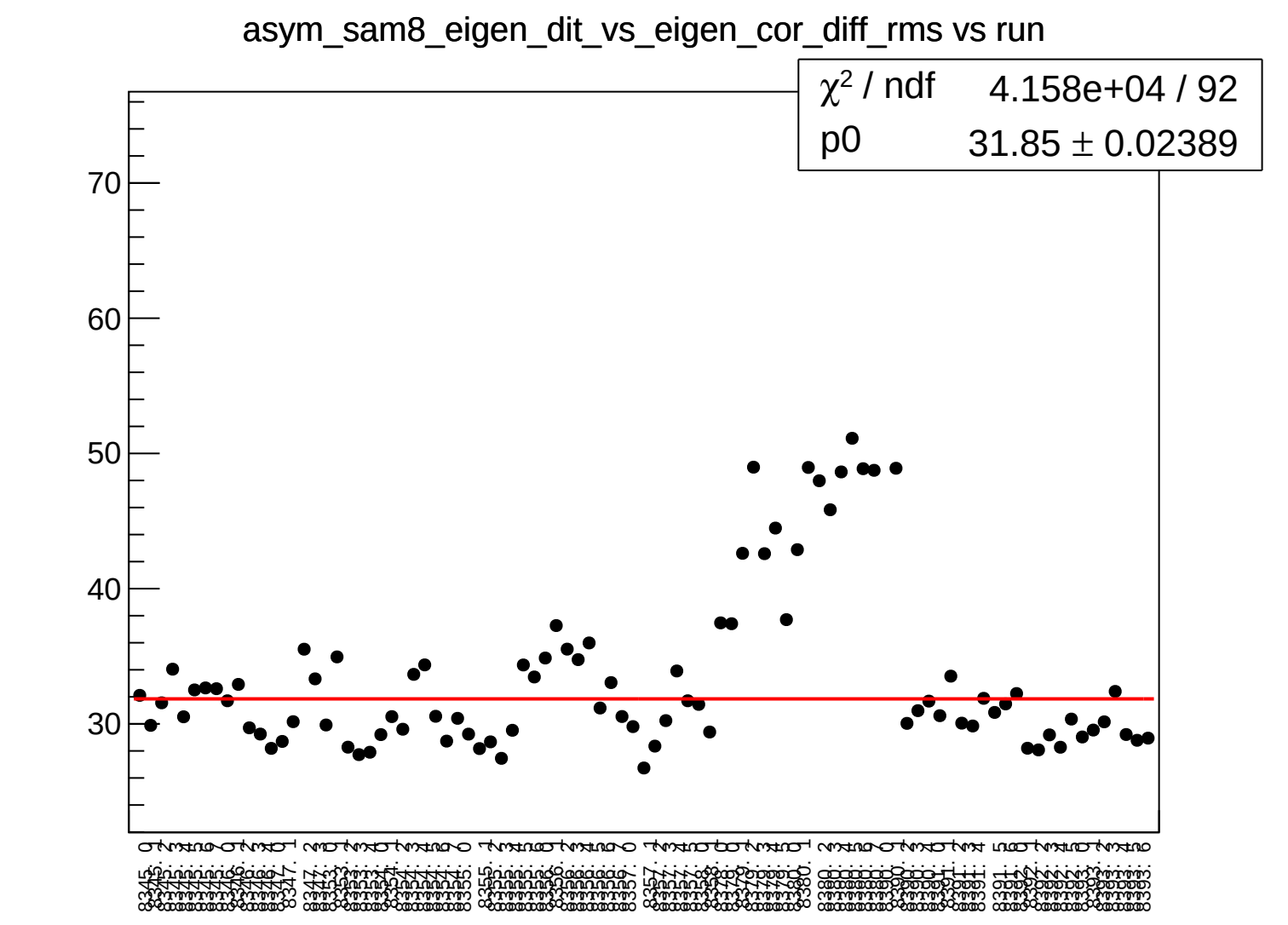

asym_sam8_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.56 / 92
p0 −0.08035 ± 0.03379
pull
Entries 93
Mean 57.25
Std Dev 54

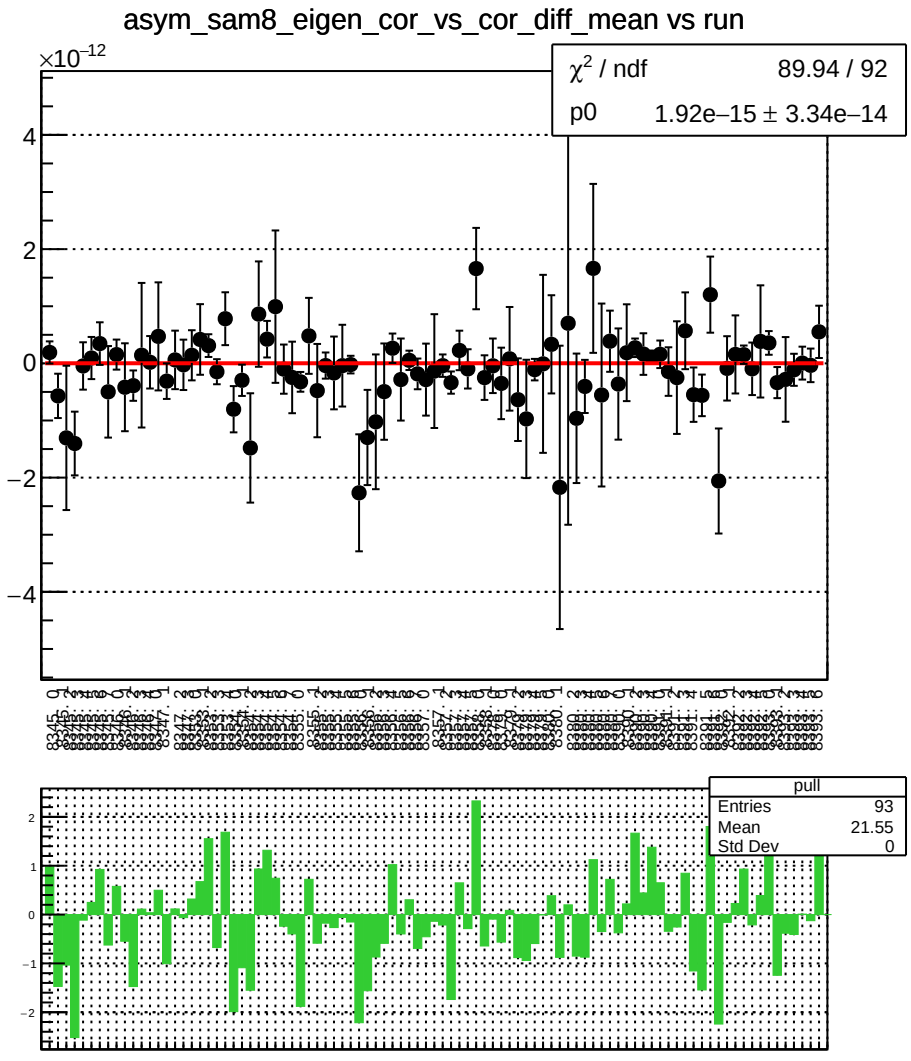

pull1D
Entries 93
Mean −0.01477
Std Dev 0.9421

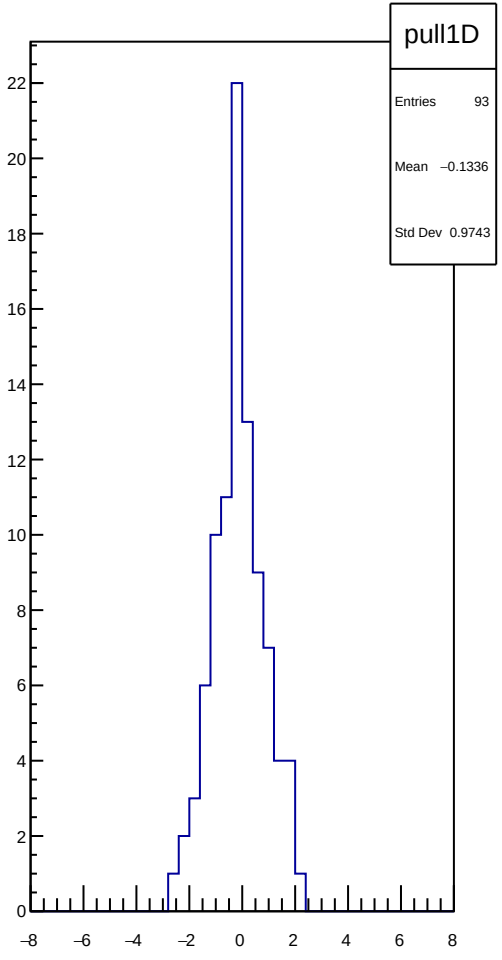

asym_sam8_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 4.158e+04 / 92
p0 31.85 ± 0.02389
70
60
50
40
30

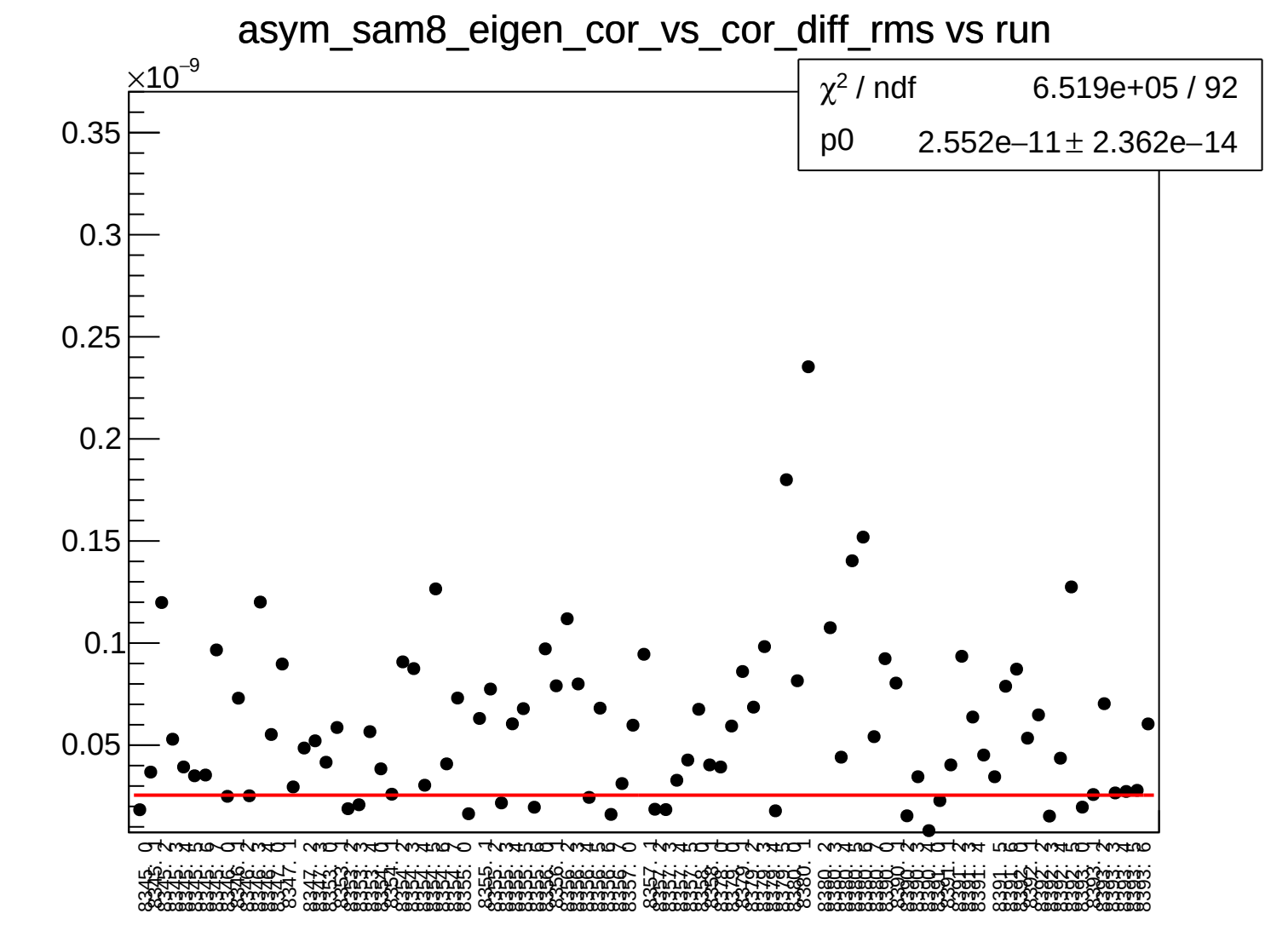

asym_sam8_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.56 / 92
p0 −0.08035 ± 0.03379
pull
Entries 93
Mean 57.25
Std Dev 54

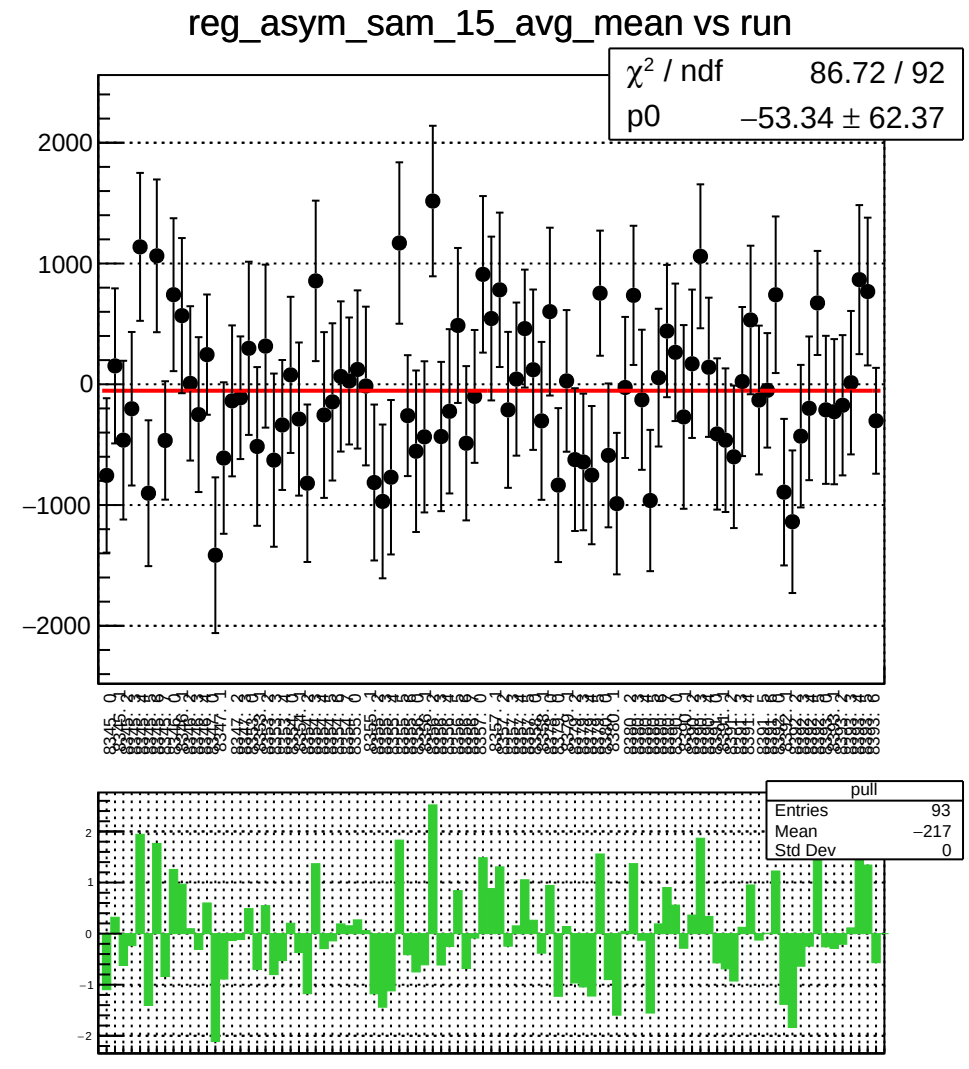

pull1D
Entries 93
Mean −0.01477
Std Dev 0.9421

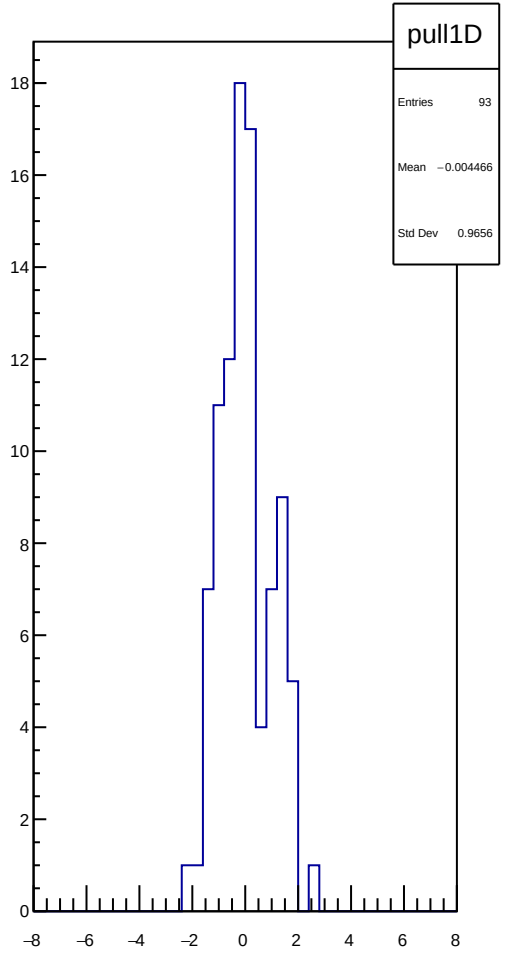

asym_sam8_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 4.158e+04 / 92
p0 31.85 ± 0.02389
70
60
50
40
30

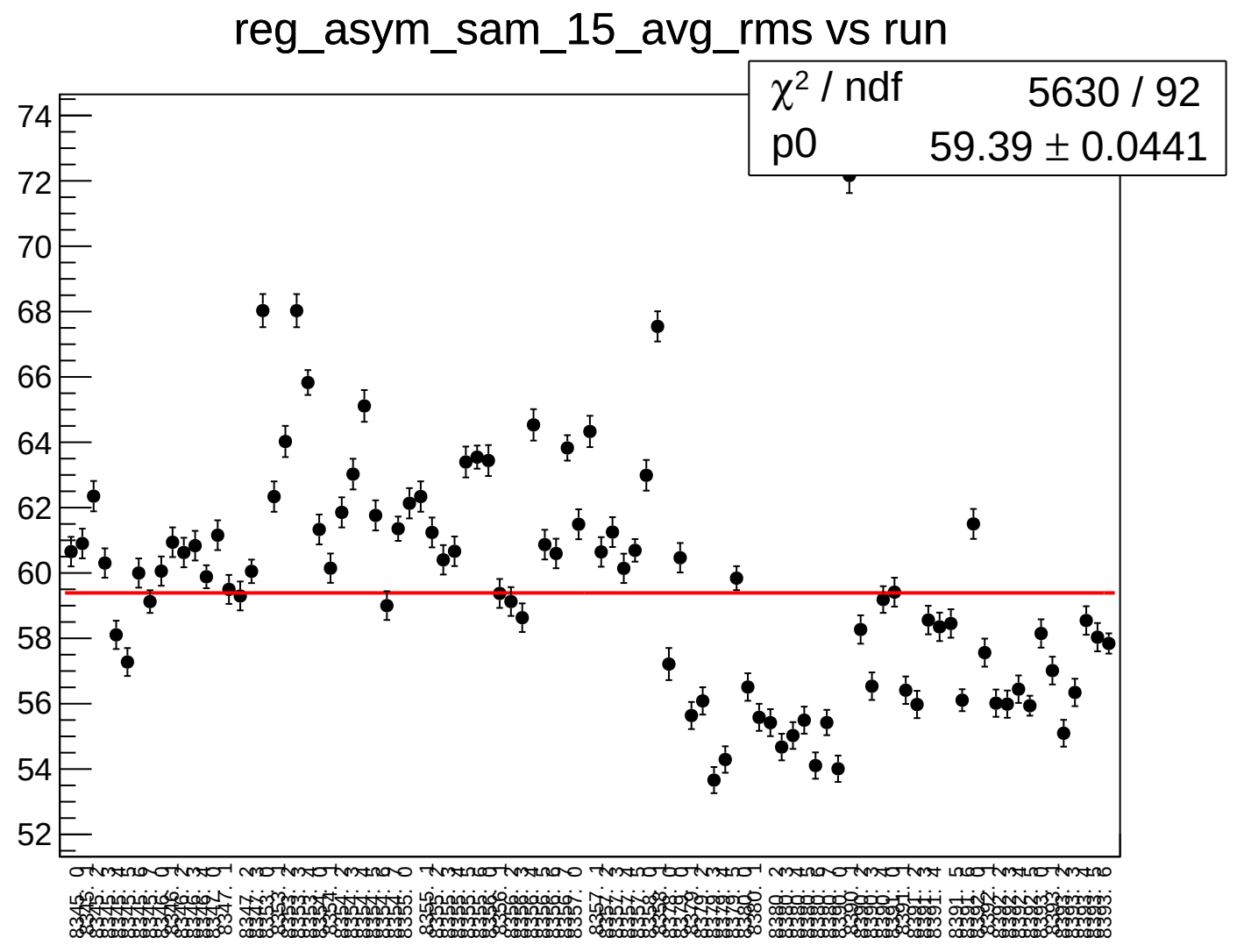

asym_sam8_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.94 / 92
p0 1.92e−15 ± 3.34e−14
pull
Entries 93
Mean 21.55
Std Dev 0

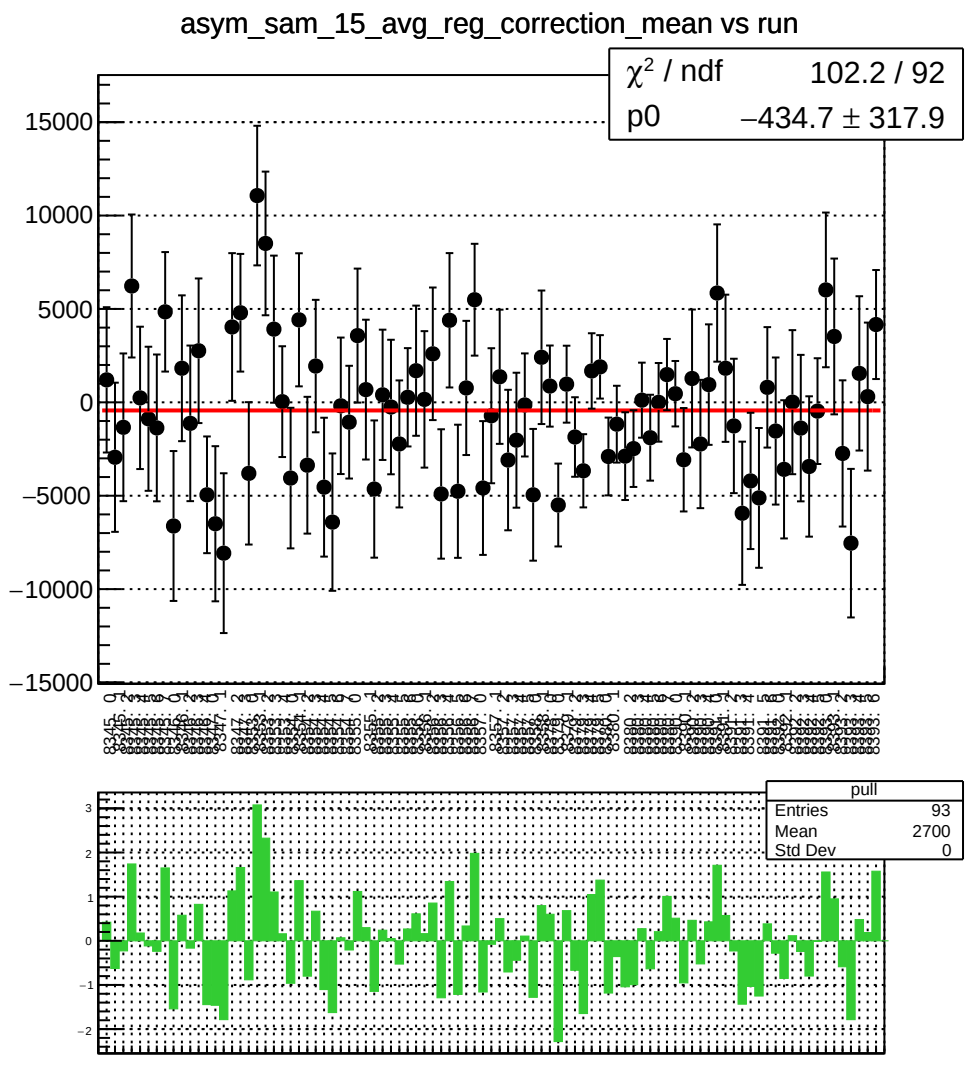

pull1D
Entries 93
Mean −0.1336
Std Dev 0.9743

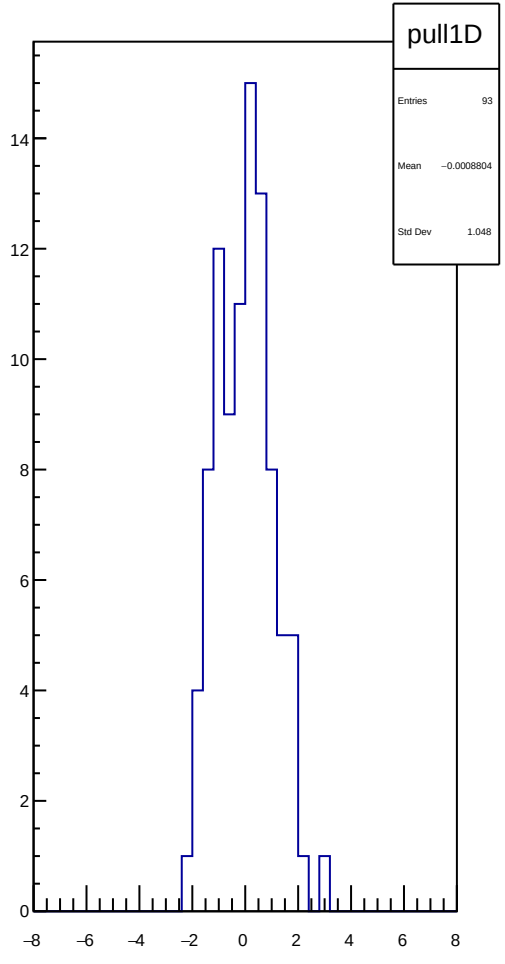

asym_sam8_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.519e+05 / 92
p0 2.552e−11 ± 2.362e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

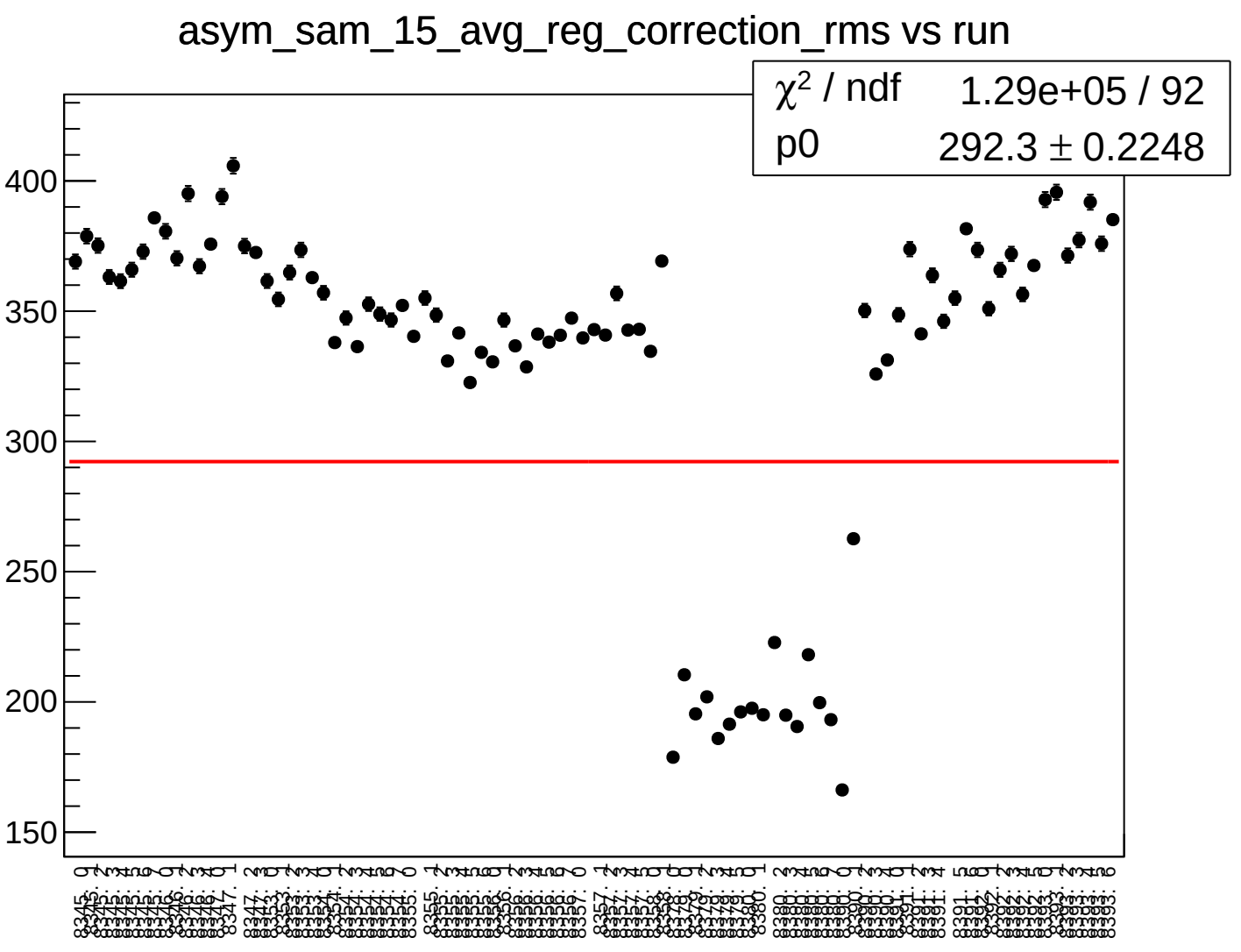

reg_asym_sam_15_avg_mean vs run
χ² / ndf 86.72 / 92
p0 −53.34 ± 62.37
2000
1000
0
−1000
−2000
pull
Entries 93
Mean −217
Std Dev 0
2
1
0
−1
−2

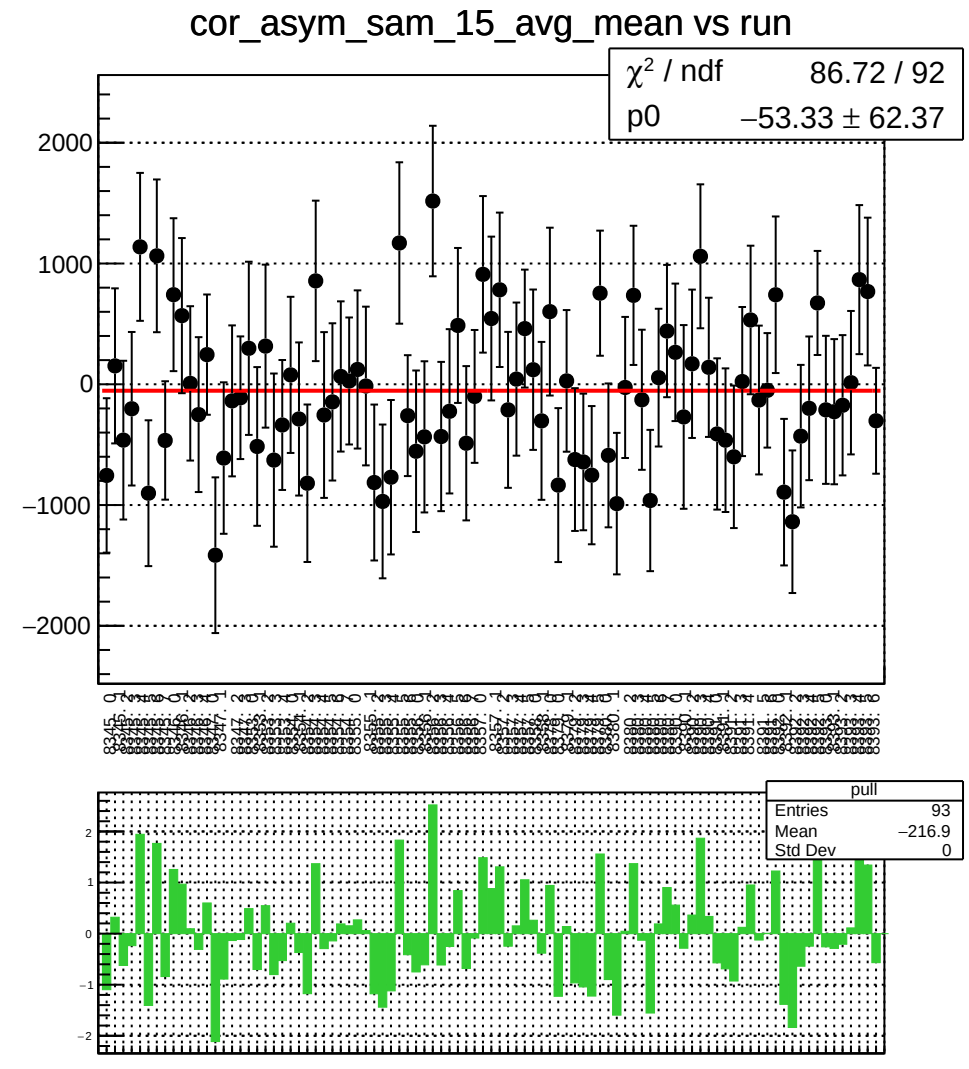

pull1D
Entries 93
Mean −0.004466
Std Dev 0.9656
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

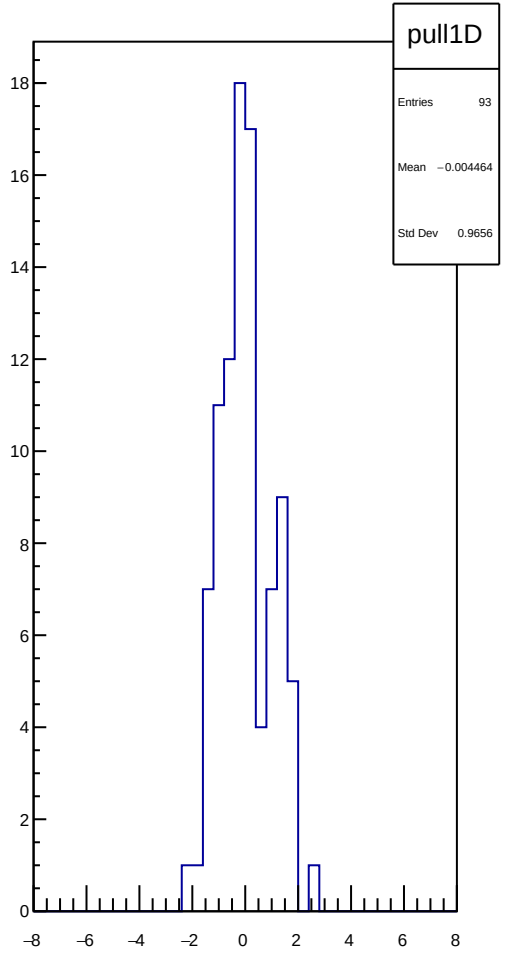

reg_asym_sam_15_avg_rms vs run
χ² / ndf 5630 / 92
p0 59.39 ± 0.0441
74
72
70
68
66
64
62
60
58
56
54
52

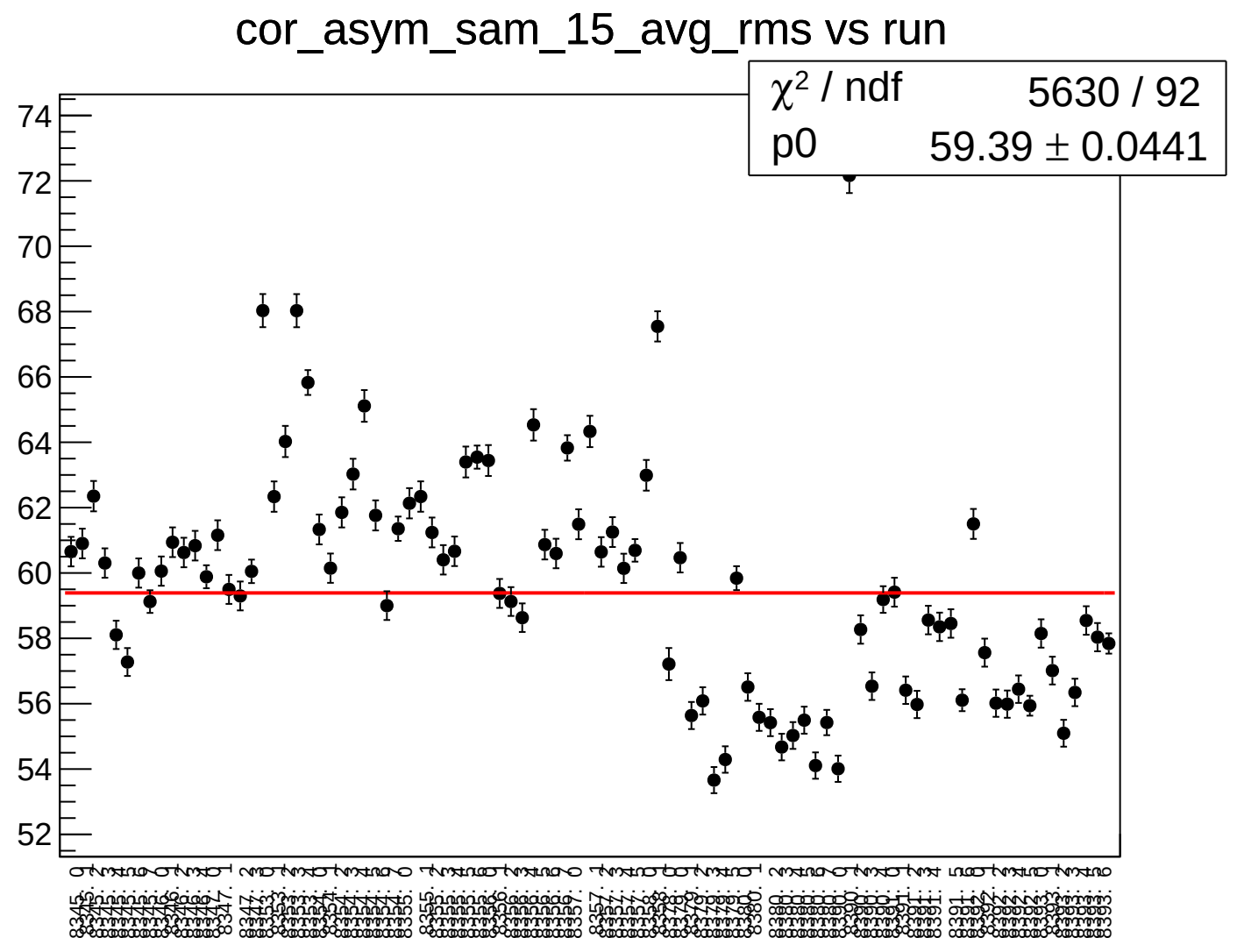

asym_sam_15_avg_reg_correction_mean vs run
χ² / ndf 102.2 / 92
p0 −434.7 ± 317.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean 2700
Std Dev 0
3
2
1
0
−1
−2

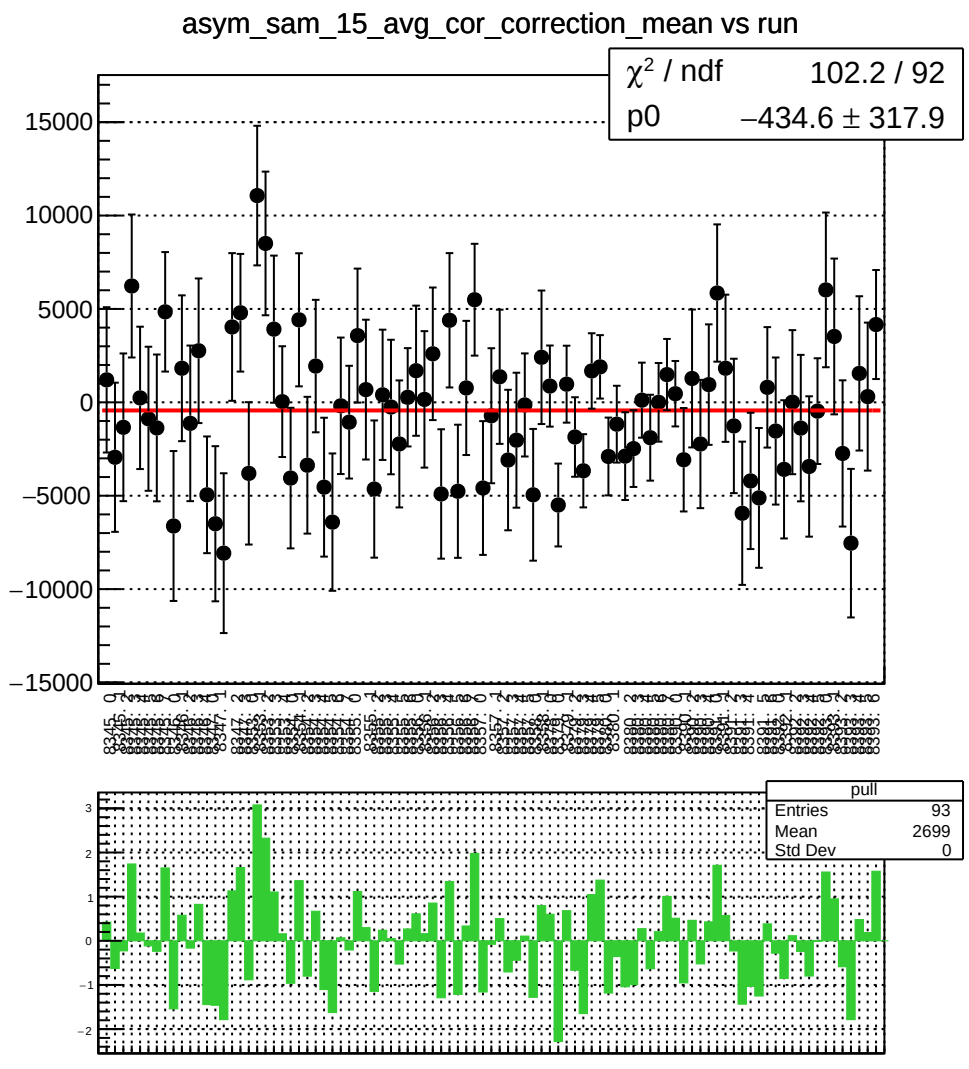

pull1D
Entries 93
Mean −0.0008804
Std Dev 1.048
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

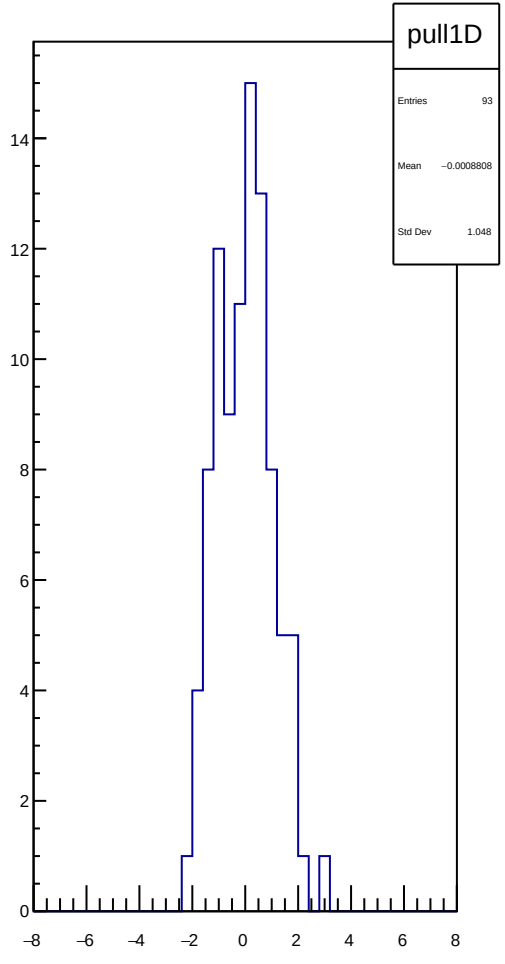

asym_sam_15_avg_reg_correction_rms vs run
χ² / ndf 1.29e+05 / 92
p0 292.3 ± 0.2248
400
350
300
250
200
150

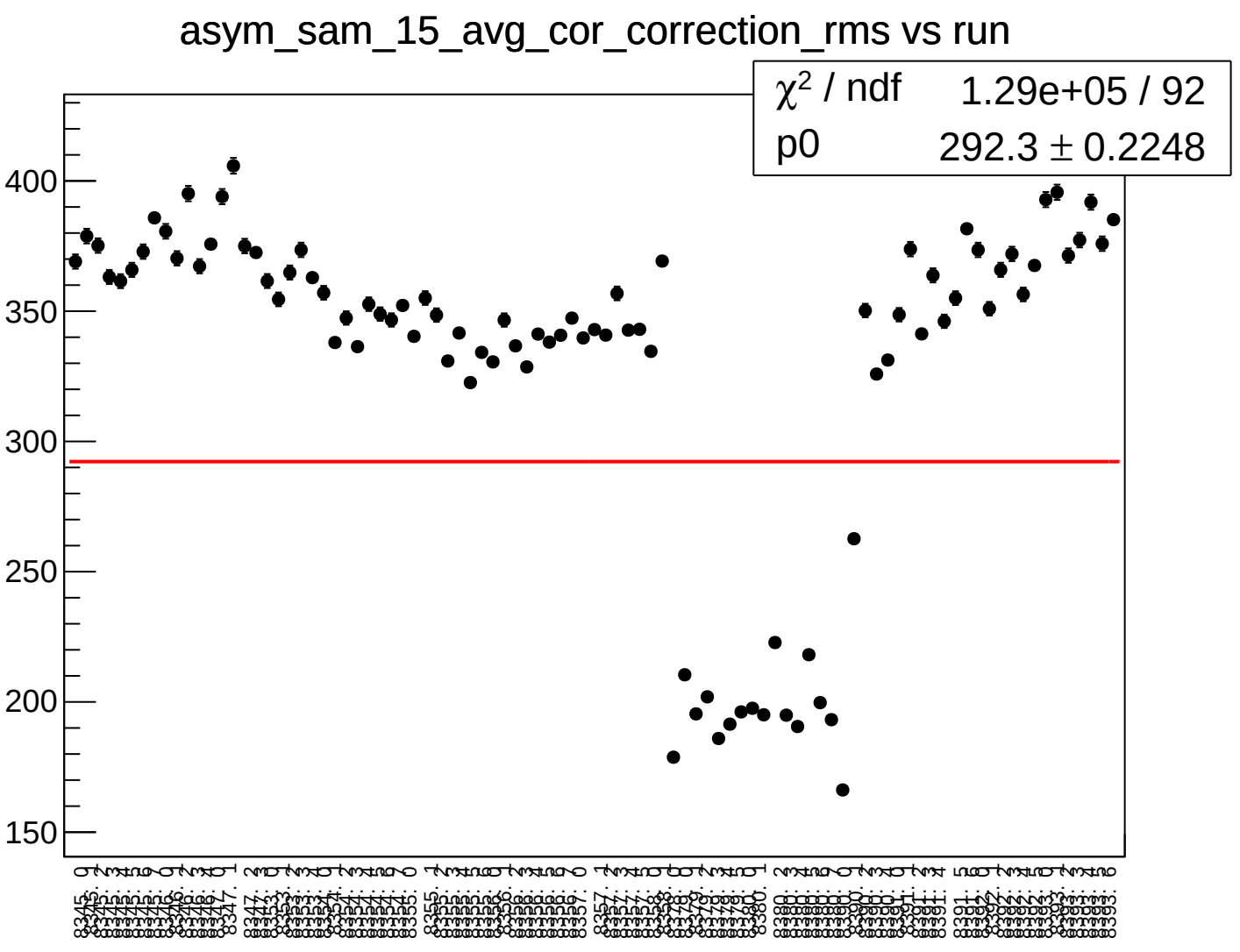

cor_asym_sam_15_avg_mean vs run
χ² / ndf 86.72 / 92
p0 −53.33 ± 62.37
2000
1000
0
−1000
−2000
pull
Entries 93
Mean −216.9
Std Dev 0
2
1
0
−1
−2

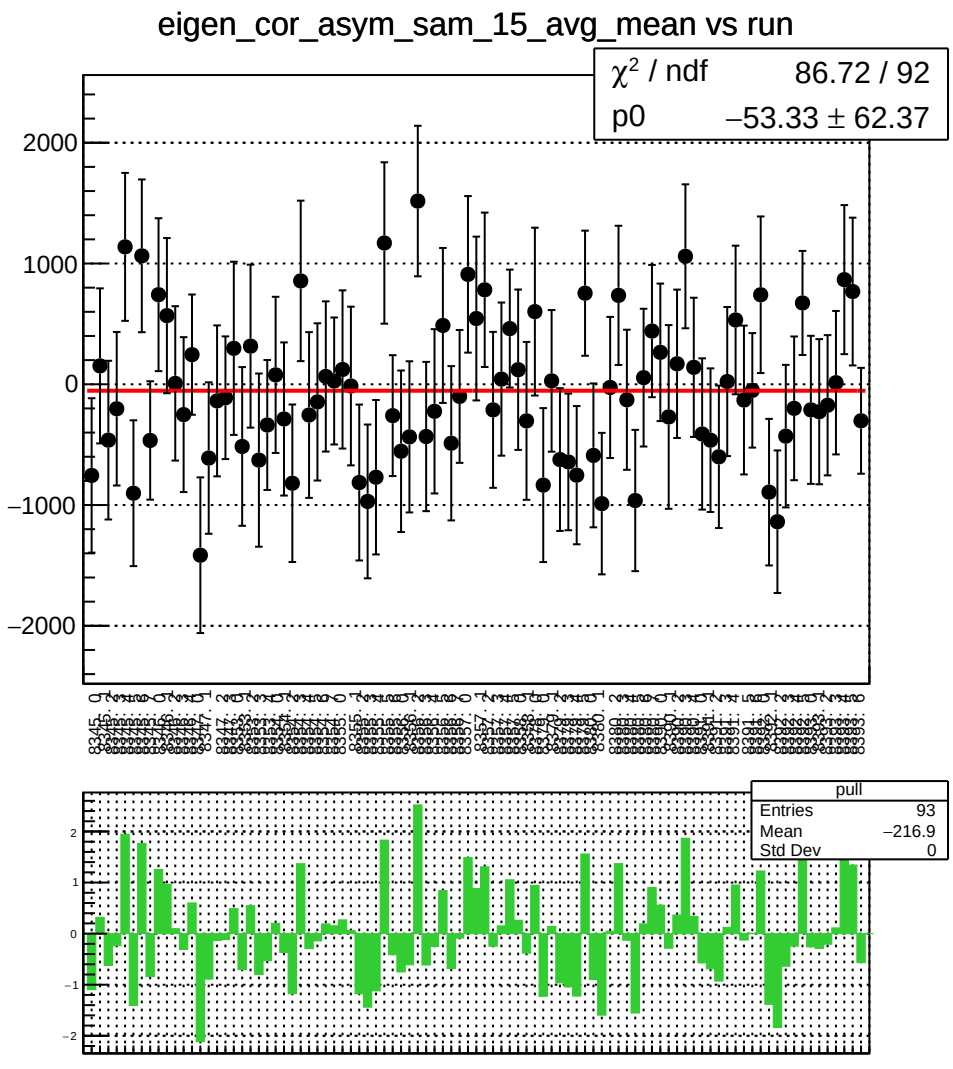

pull1D
Entries 93
Mean −0.004464
Std Dev 0.9656
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

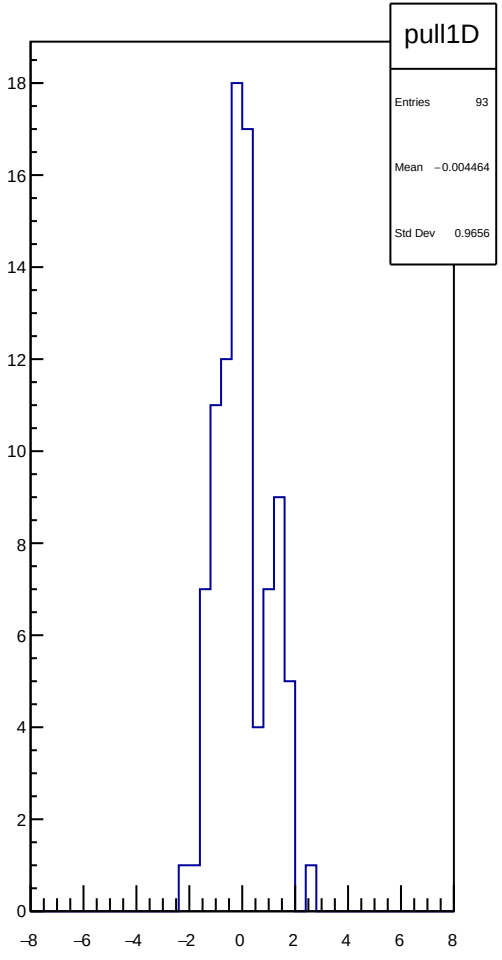

cor_asym_sam_15_avg_rms vs run
χ² / ndf 5630 / 92
p0 59.39 ± 0.0441
74
72
70
68
66
64
62
60
58
56
54
52

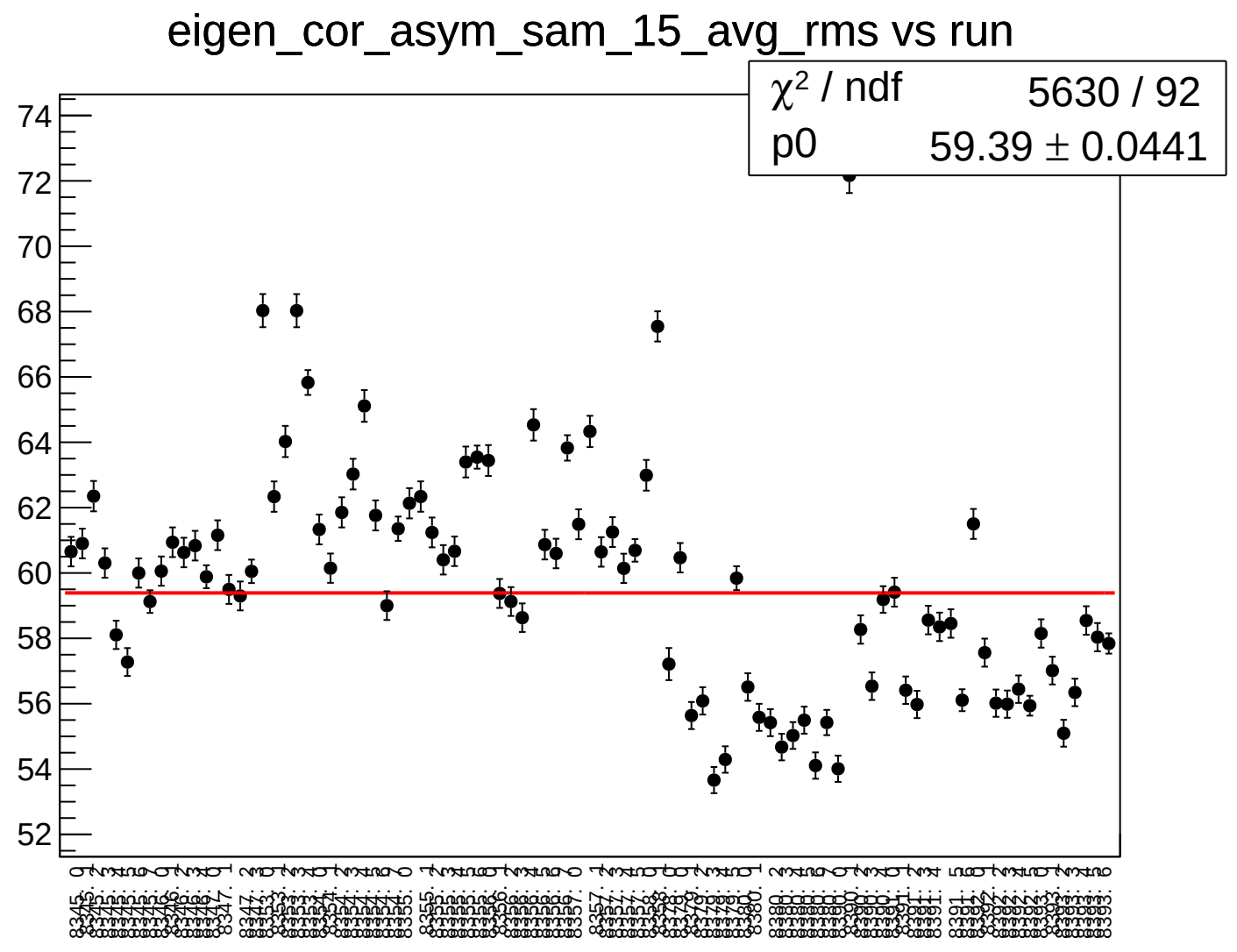

asym_sam_15_avg_cor_correction_mean vs run
χ² / ndf 102.2 / 92
p0 −434.6 ± 317.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean 2699
Std Dev 0
3
2
1
0
−1
−2

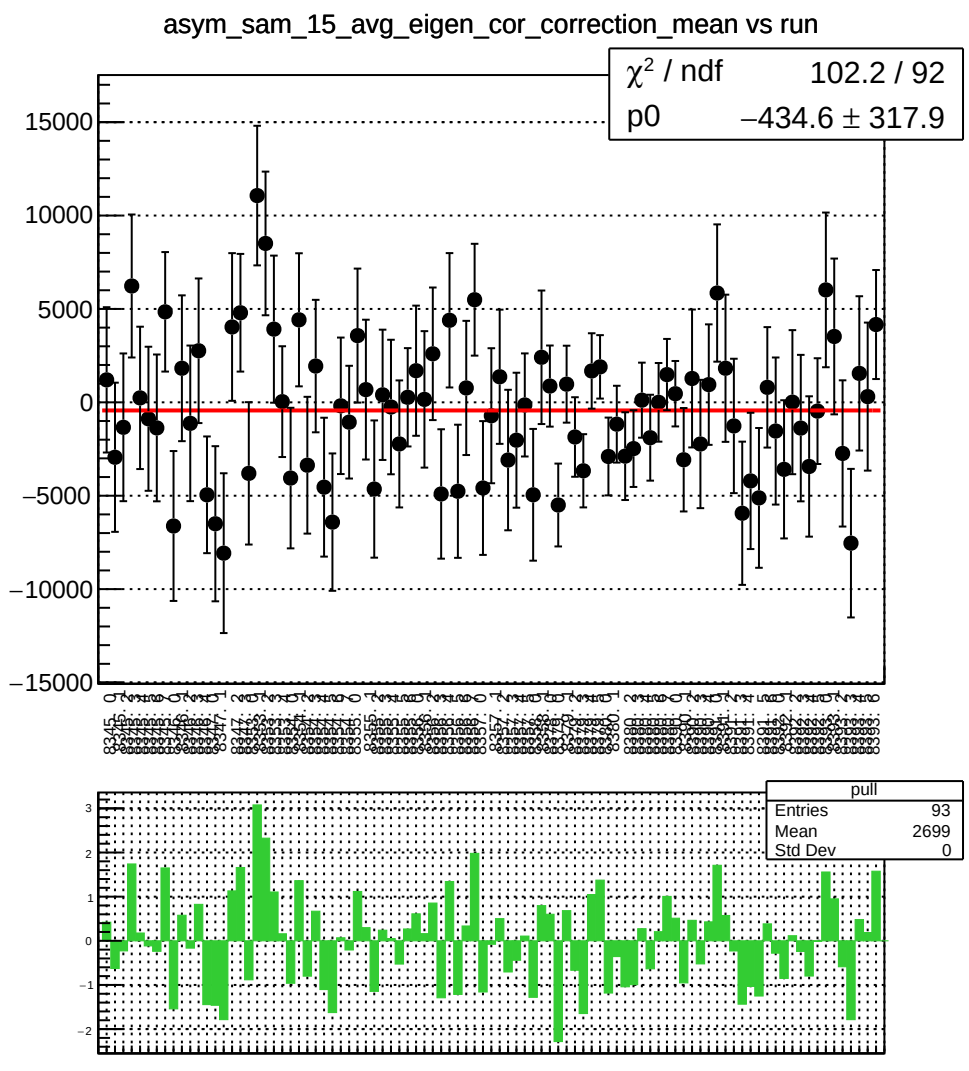

pull1D
Entries 93
Mean −0.0008808
Std Dev 1.048
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

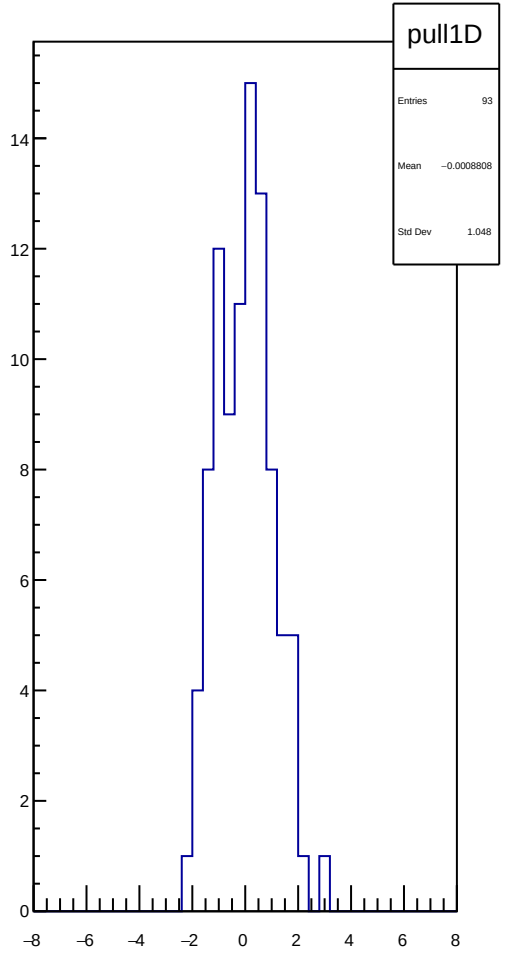

asym_sam_15_avg_cor_correction_rms vs run
χ² / ndf 1.29e+05 / 92
p0 292.3 ± 0.2248
400
350
300
250
200
150

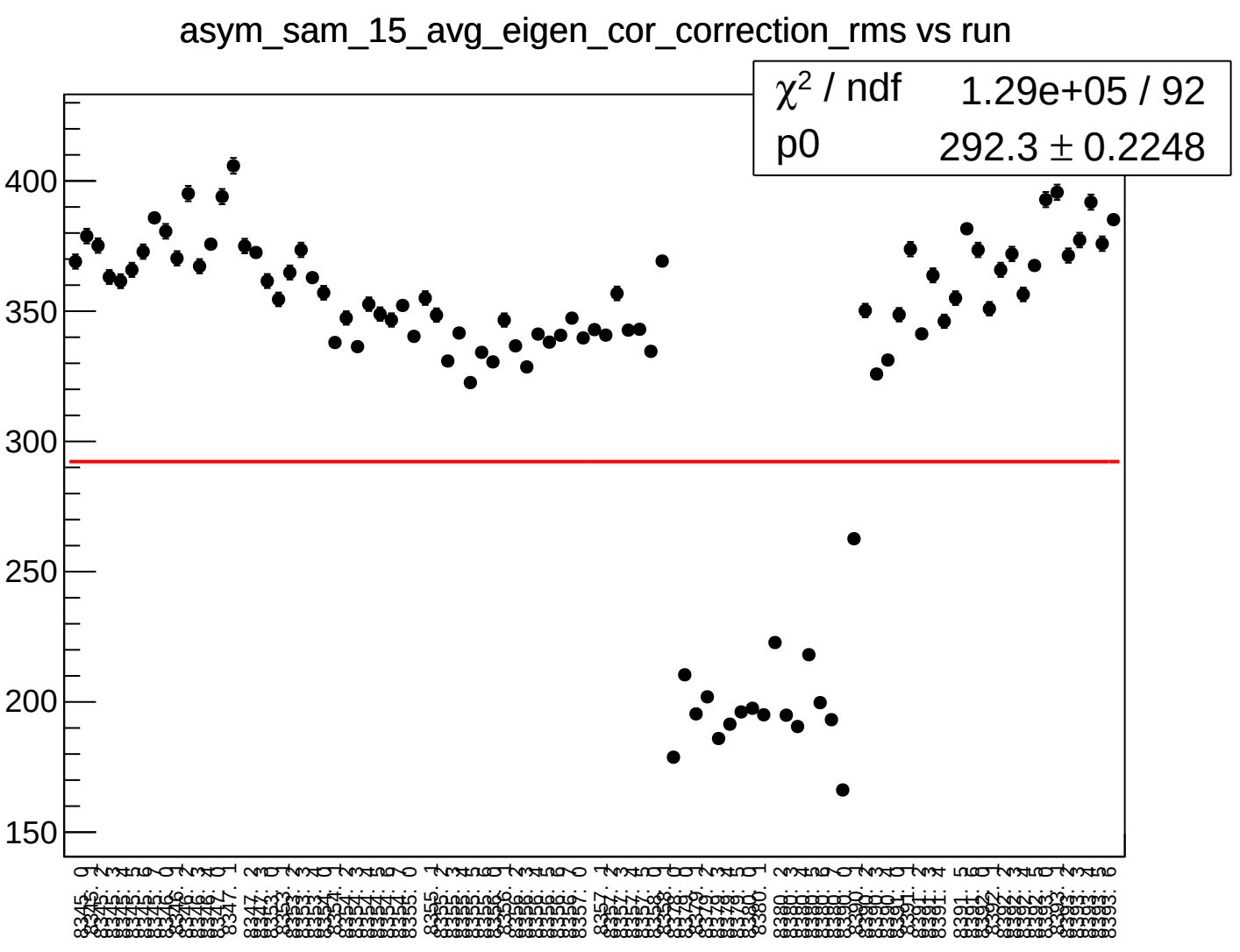

eigen_cor_asym_sam_15_avg_mean vs run
χ² / ndf 86.72 / 92
p0 −53.33 ± 62.37
2000
1000
0
−1000
−2000
pull
Entries 93
Mean −216.9
Std Dev 0
2
1
0
−1
−2

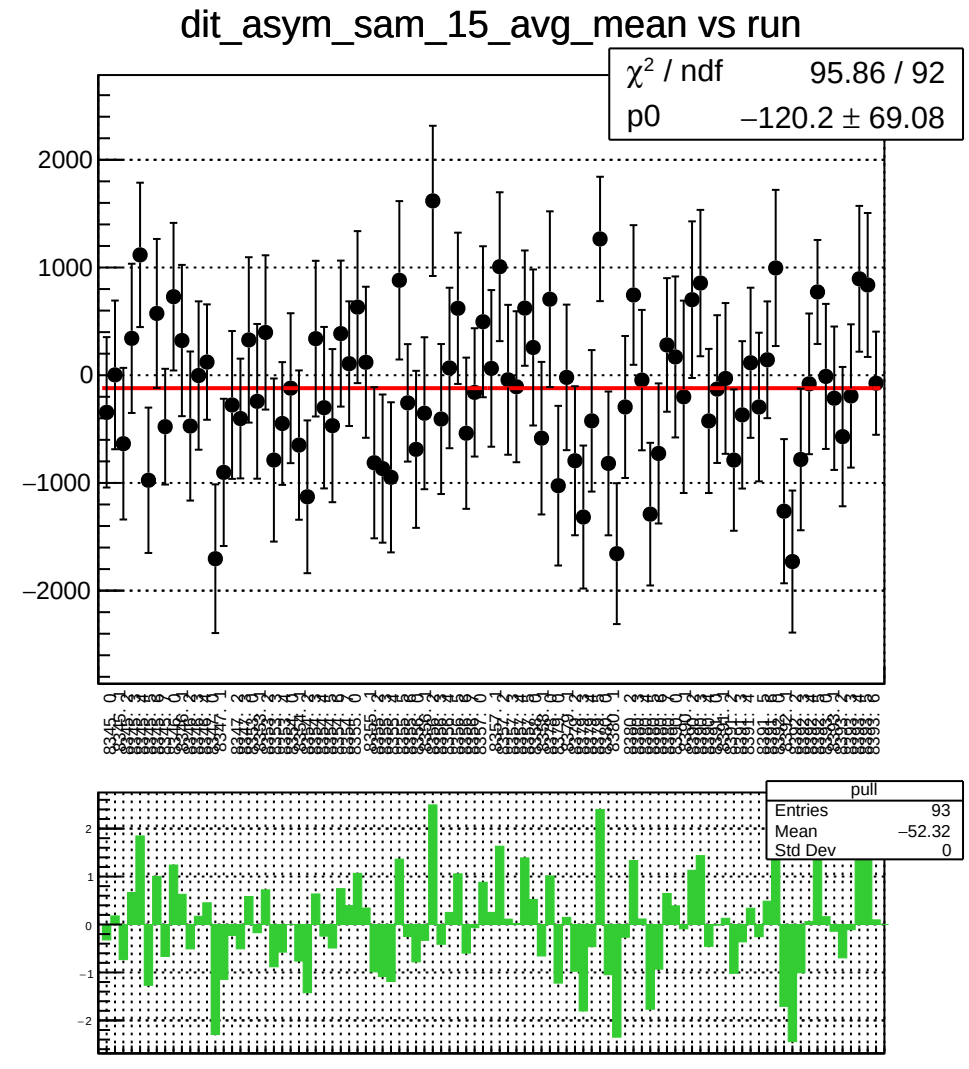

pull1D
Entries 93
Mean −0.004464
Std Dev 0.9656
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

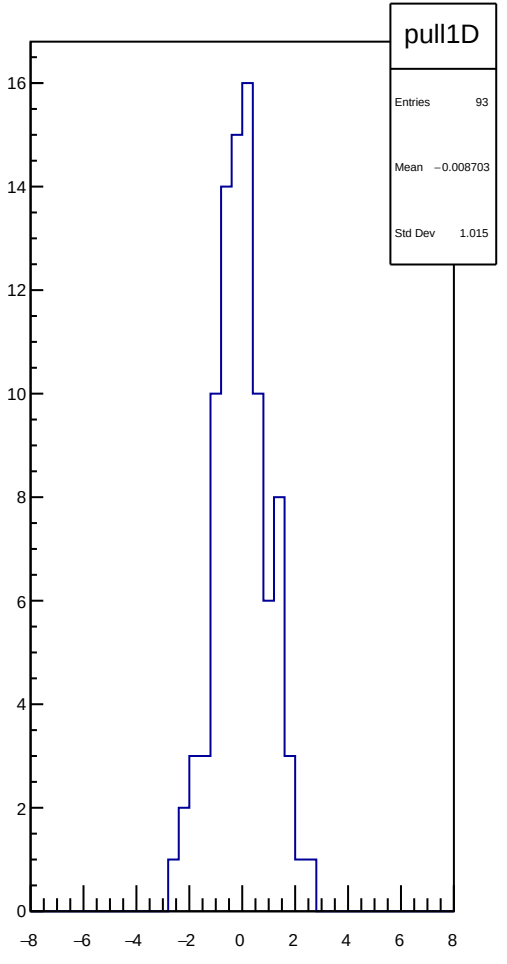

eigen_cor_asym_sam_15_avg_rms vs run
χ² / ndf 5630 / 92
p0 59.39 ± 0.0441
74
72
70
68
66
64
62
60
58
56
54
52

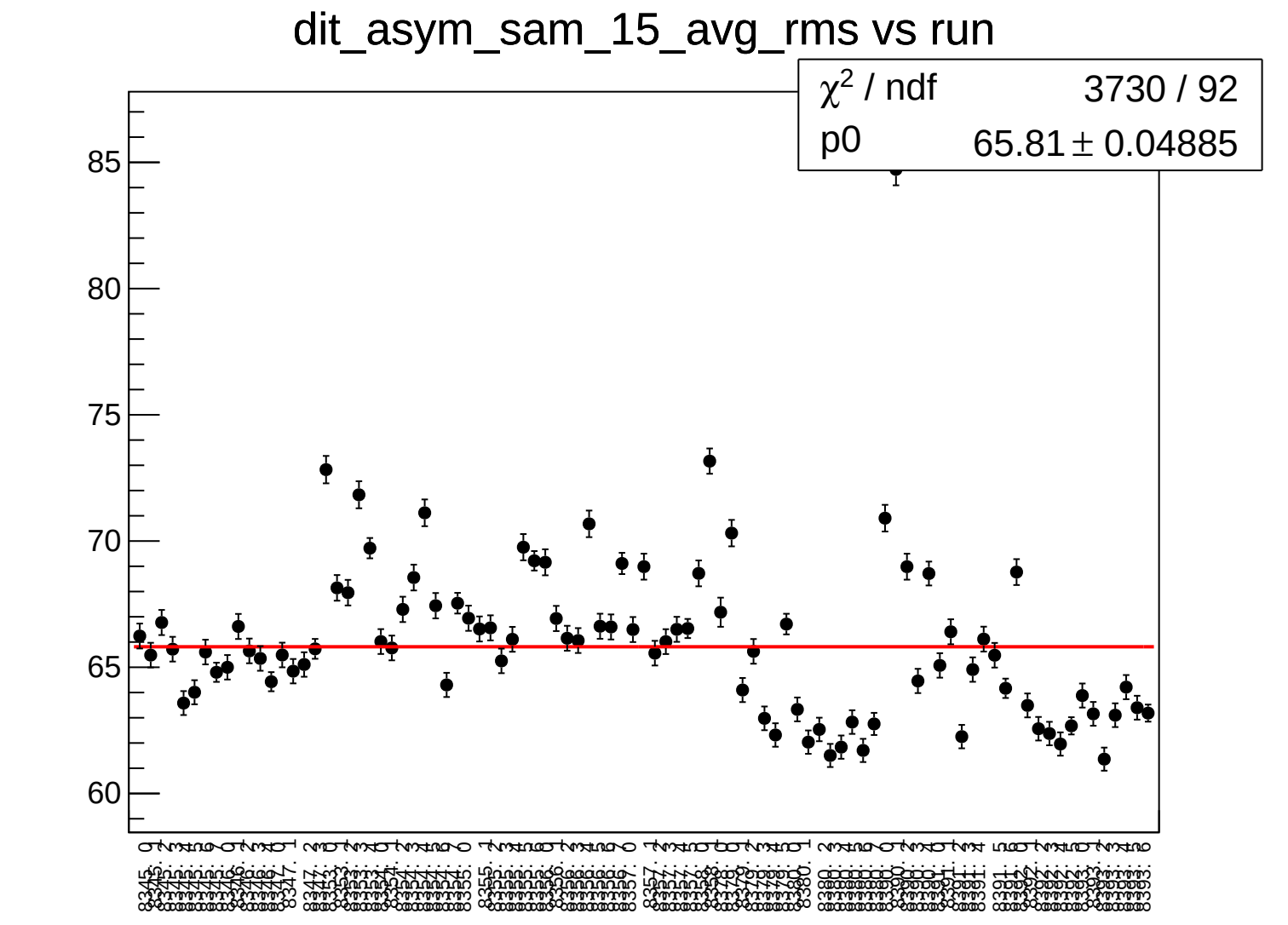

asym_sam_15_avg_eigen_cor_correction_mean vs run
χ² / ndf 102.2 / 92
p0 −434.6 ± 317.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean 2699
Std Dev 0
3
2
1
0
−1
−2

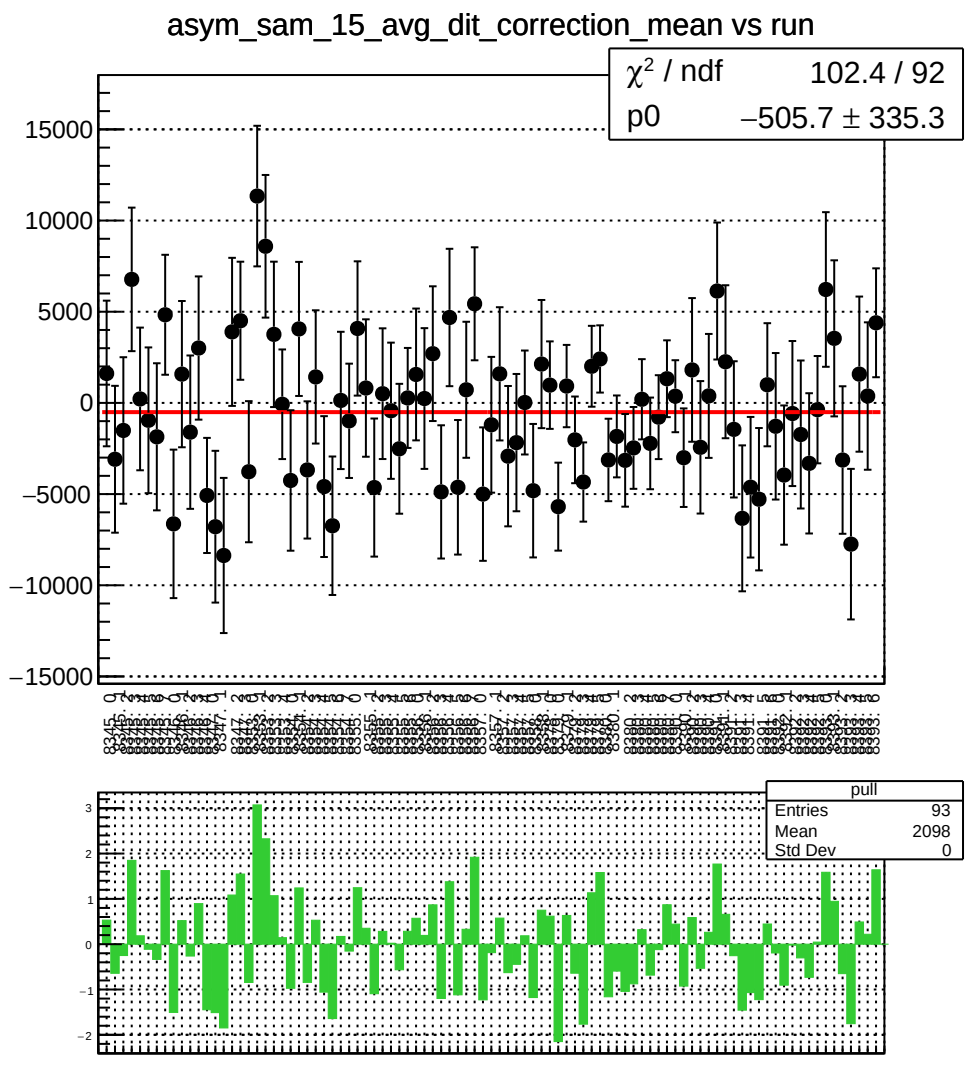

pull1D
Entries 93
Mean −0.0008808
Std Dev 1.048
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

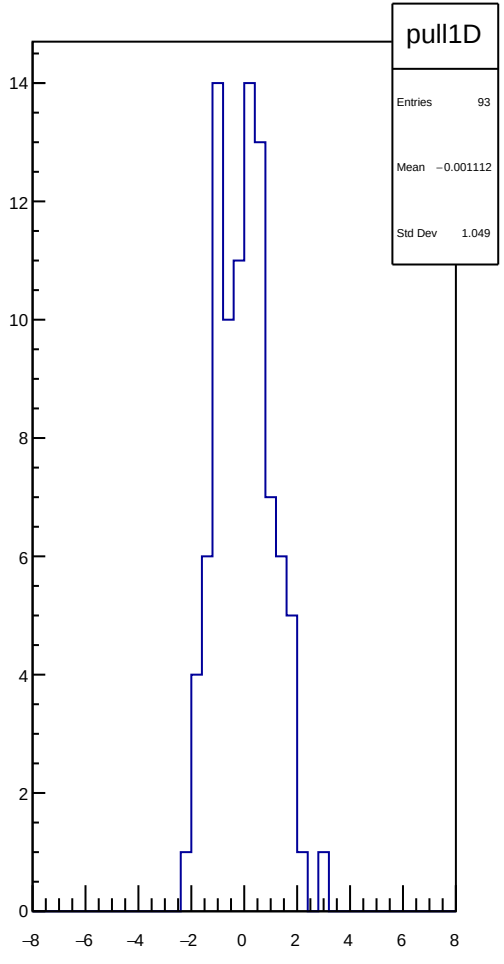

asym_sam_15_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.29e+05 / 92
p0 292.3 ± 0.2248
400
350
300
250
200
150

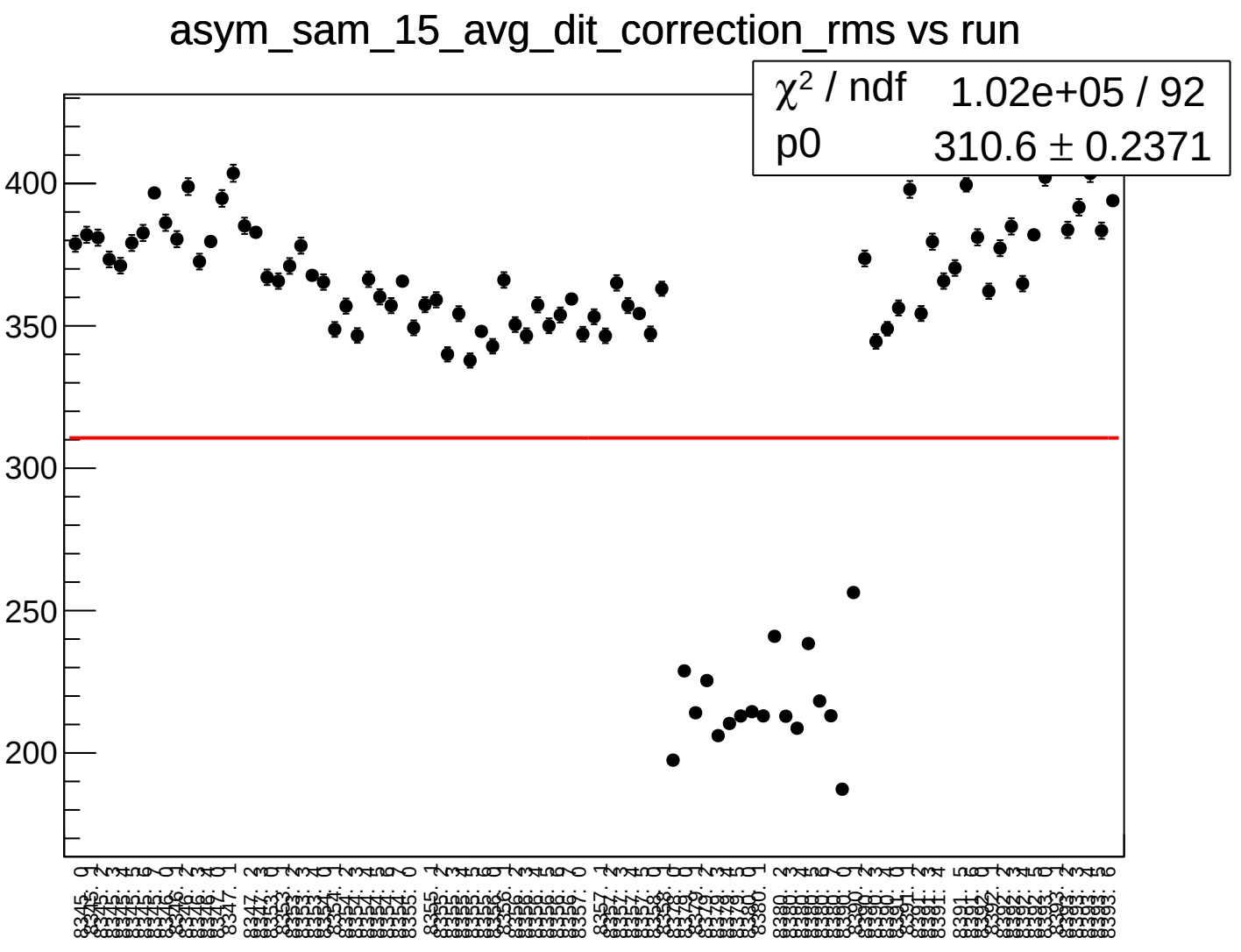

dit_asym_sam_15_avg_mean vs run
χ² / ndf 95.86 / 92
p0 −120.2 ± 69.08
2000
1000
0
−1000
−2000
pull
Entries 93
Mean −52.32
Std Dev 0
2
1
0
−1
−2

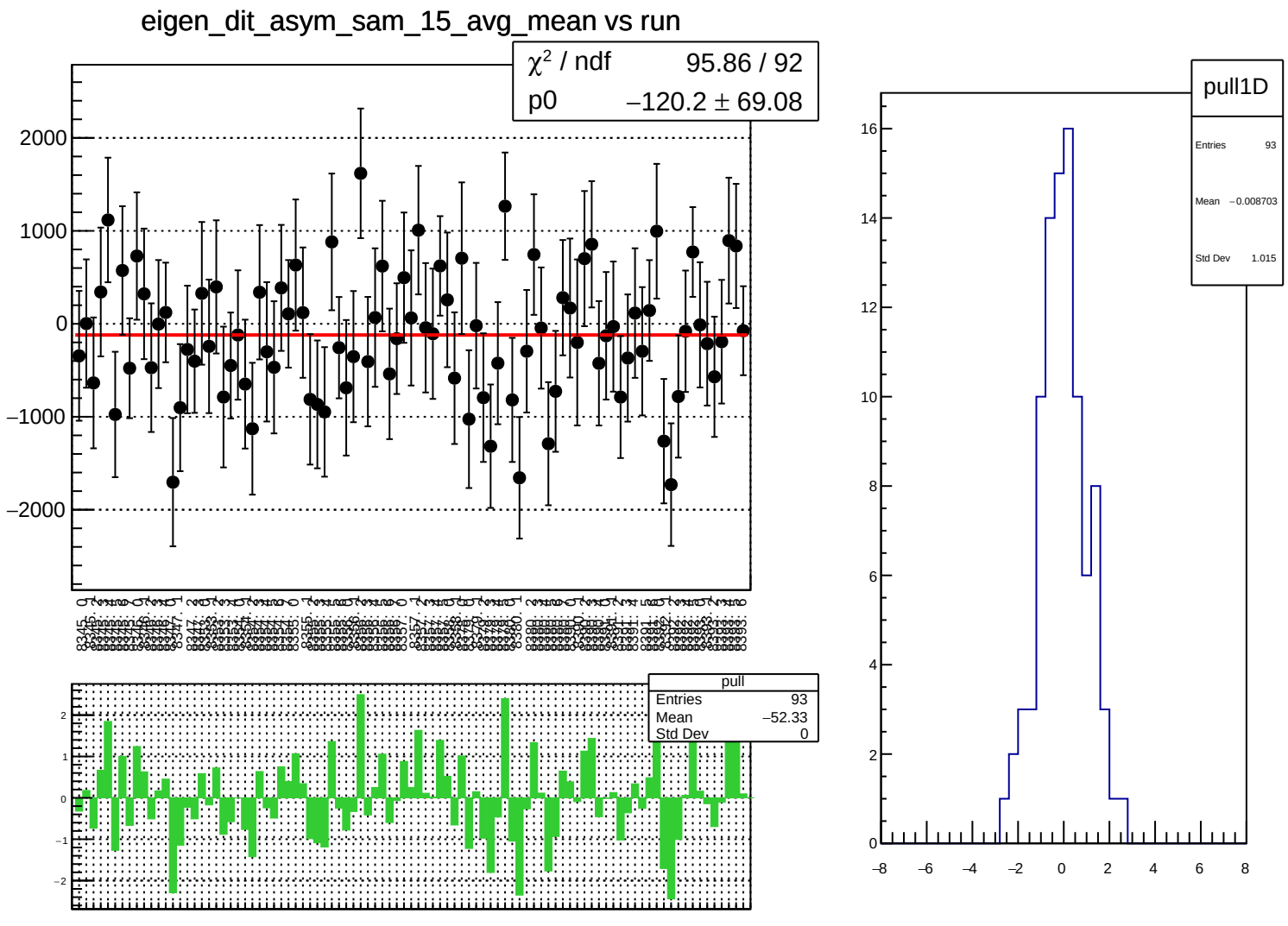

pull1D
Entries 93
Mean −0.008703
Std Dev 1.015
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

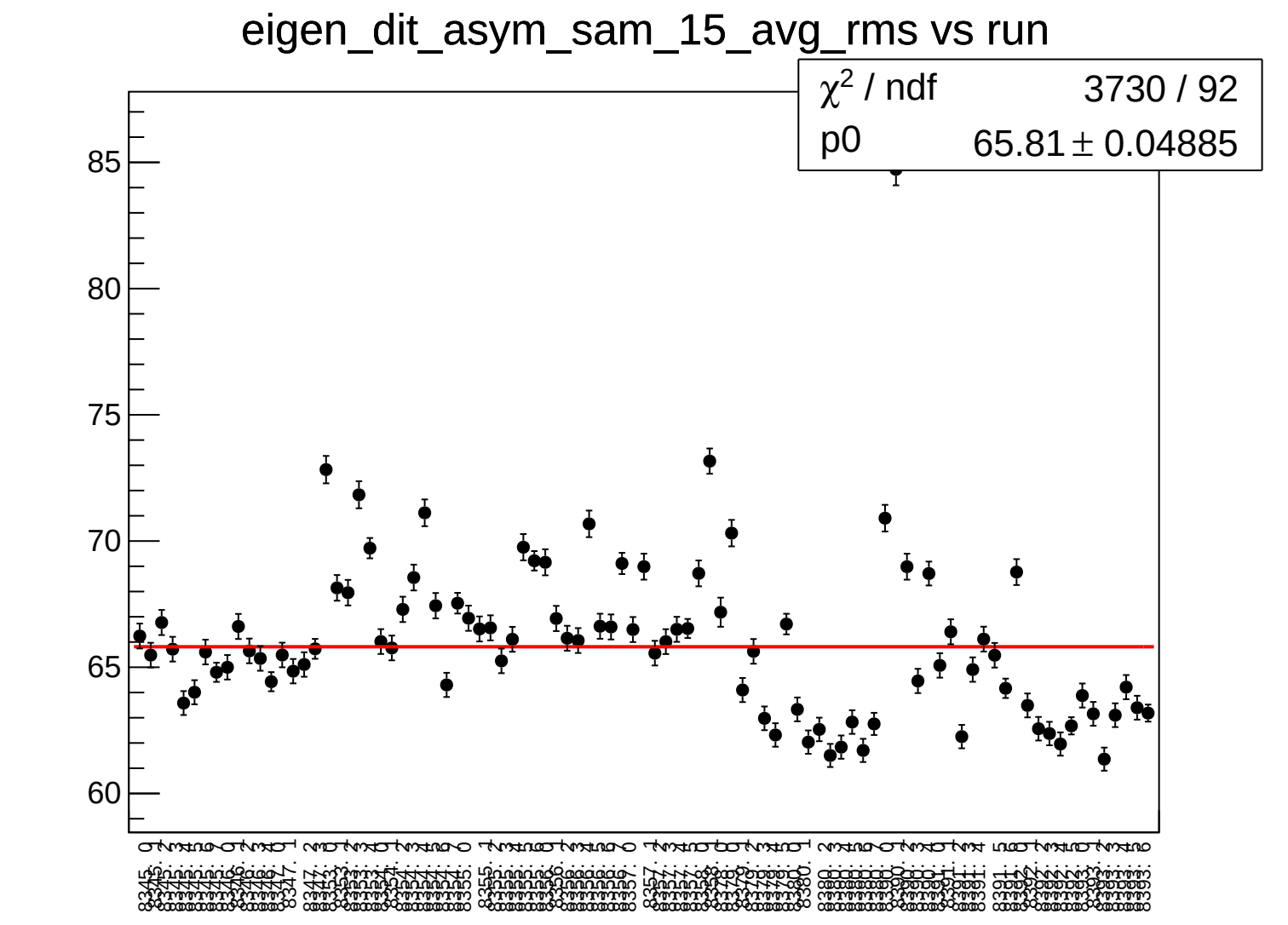

dit_asym_sam_15_avg_rms vs run
χ^2 / ndf 3730 / 92
p0 65.81 ± 0.04885
85
80
75
70
65
60

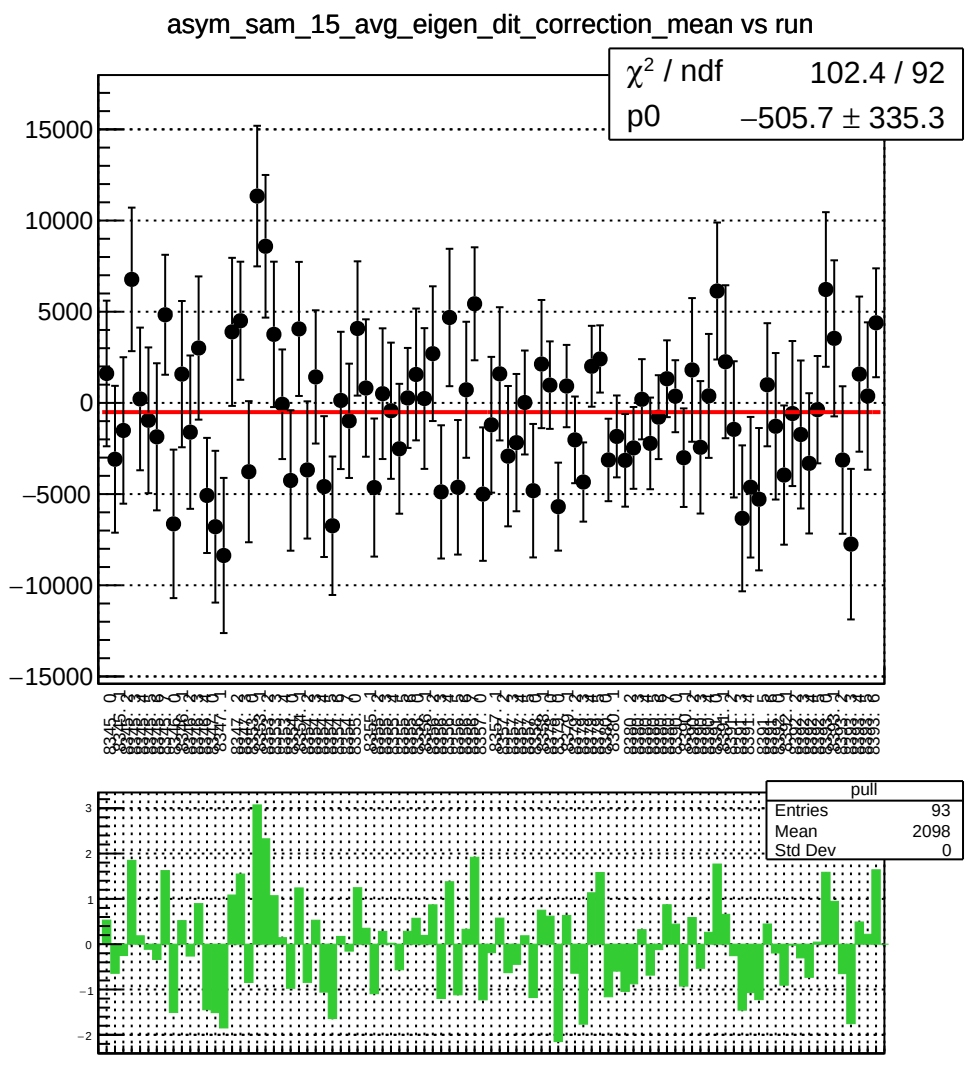

asym_sam_15_avg_dit_correction_mean vs run
χ² / ndf 102.4 / 92
p0 −505.7 ± 335.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean 2098
Std Dev 0
3
2
1
0
−1
−2

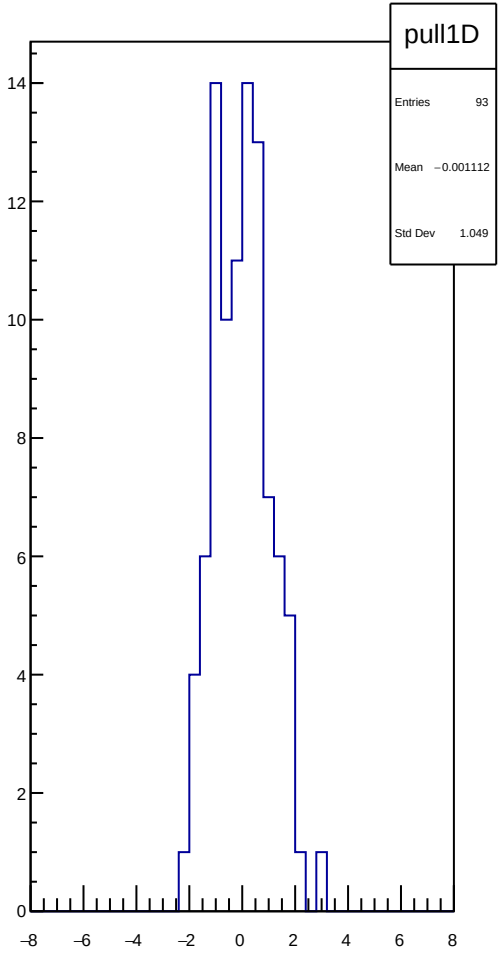

pull1D
Entries 93
Mean −0.001112
Std Dev 1.049
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

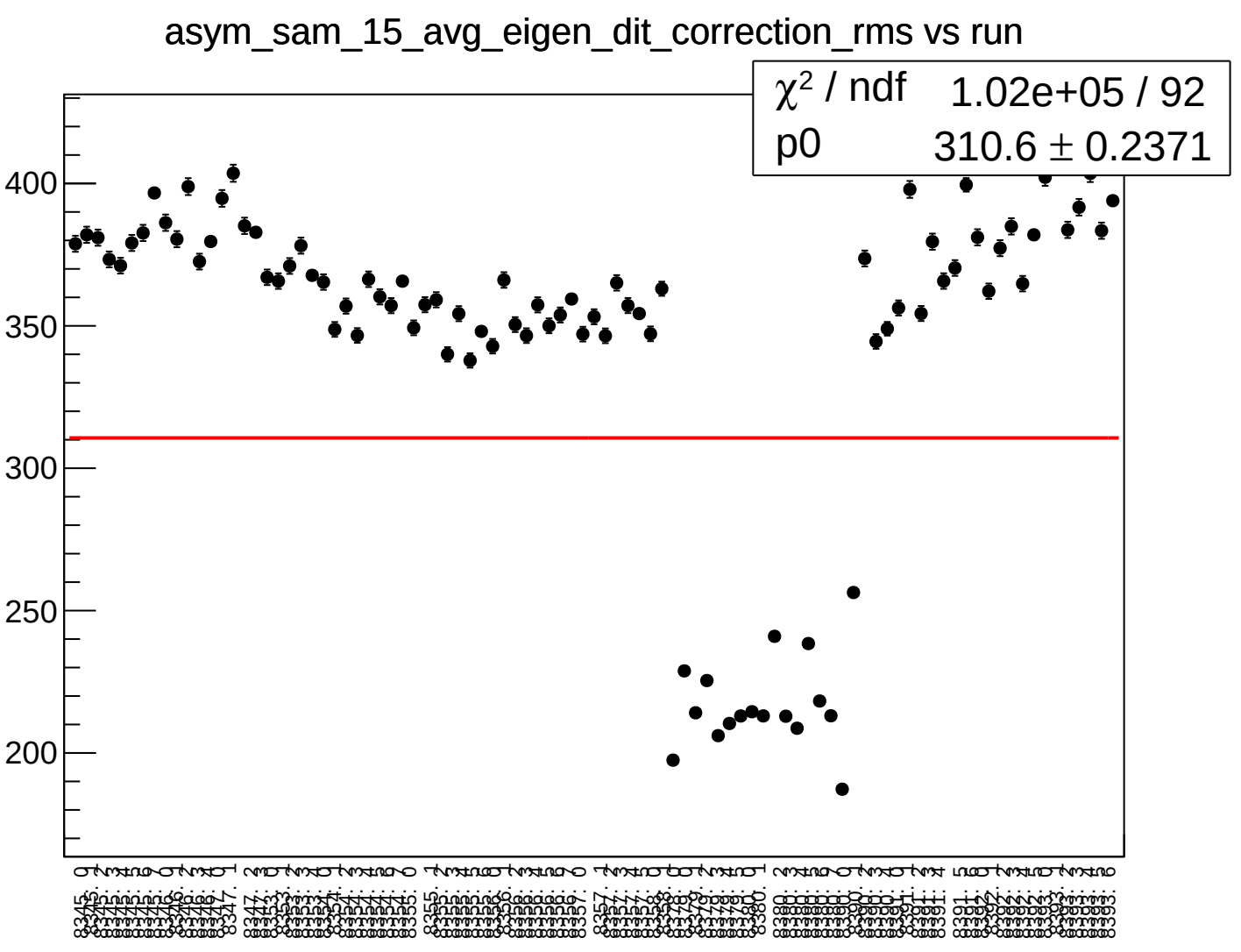

asym_sam_15_avg_dit_correction_rms vs run
χ² / ndf 1.02e+05 / 92
p0 310.6 ± 0.2371
400
350
300
250
200

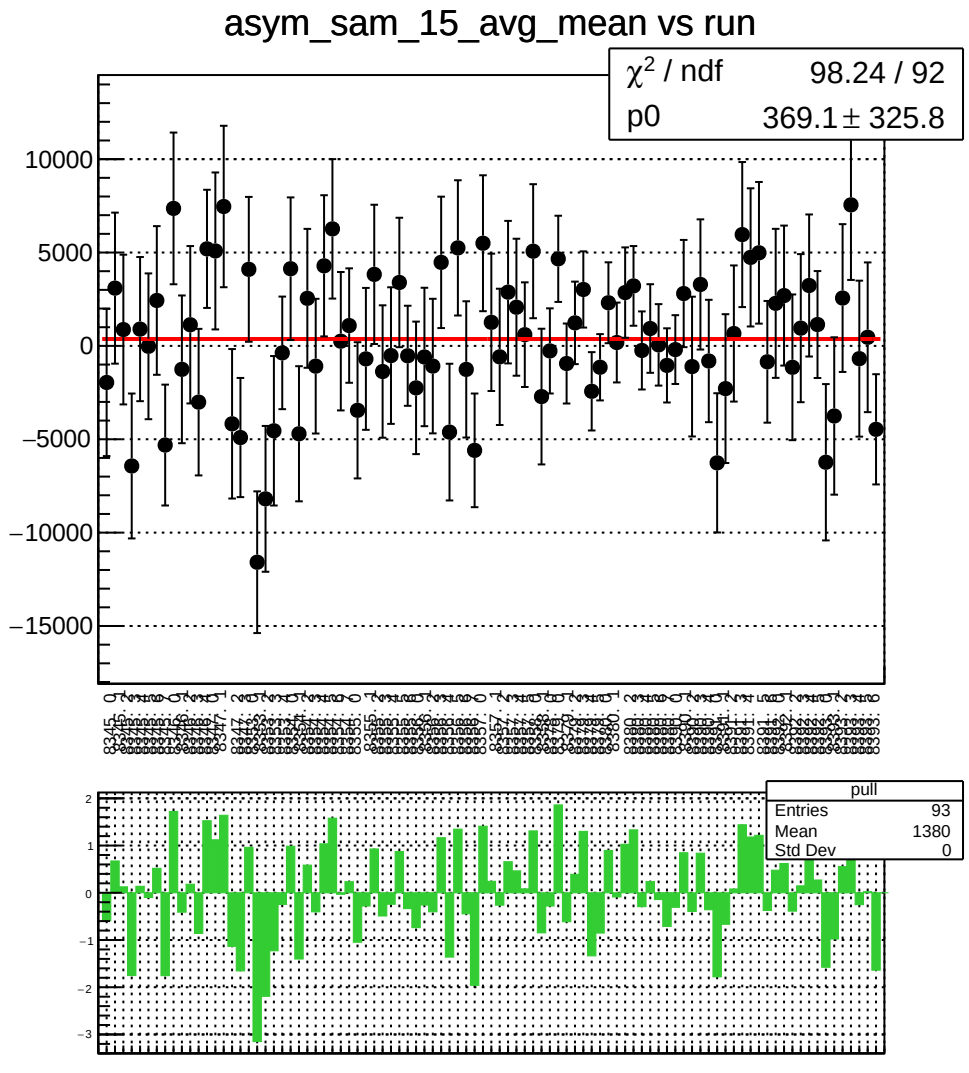

eigen_dit_asym_sam_15_avg_mean vs run
χ² / ndf 95.86 / 92
p0 −120.2 ± 69.08
2000
1000
0
−1000
−2000
pull
Entries 93
Mean −52.33
Std Dev 0
pull1D
Entries 93
Mean −0.008703
Std Dev 1.015

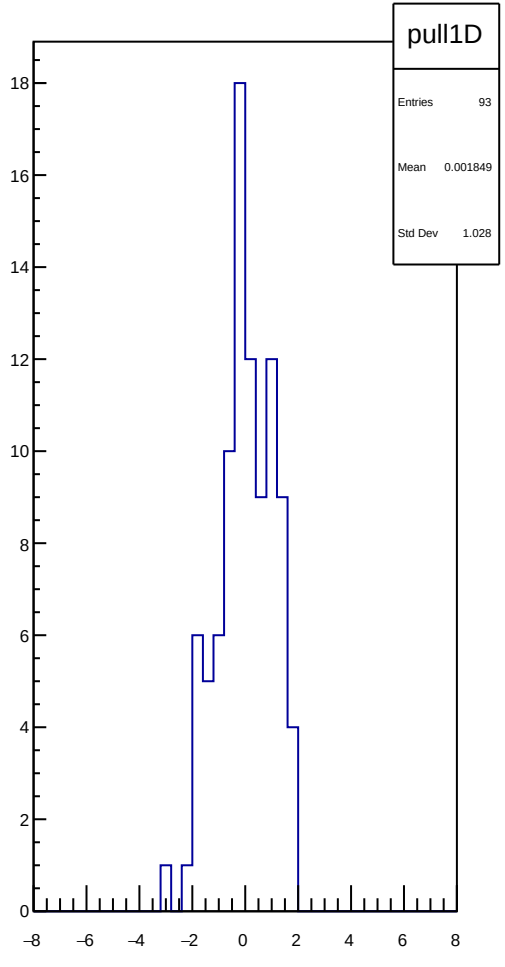

eigen_dit_asym_sam_15_avg_rms vs run
χ^2 / ndf 3730 / 92
p0 65.81 ± 0.04885
85
80
75
70
65
60

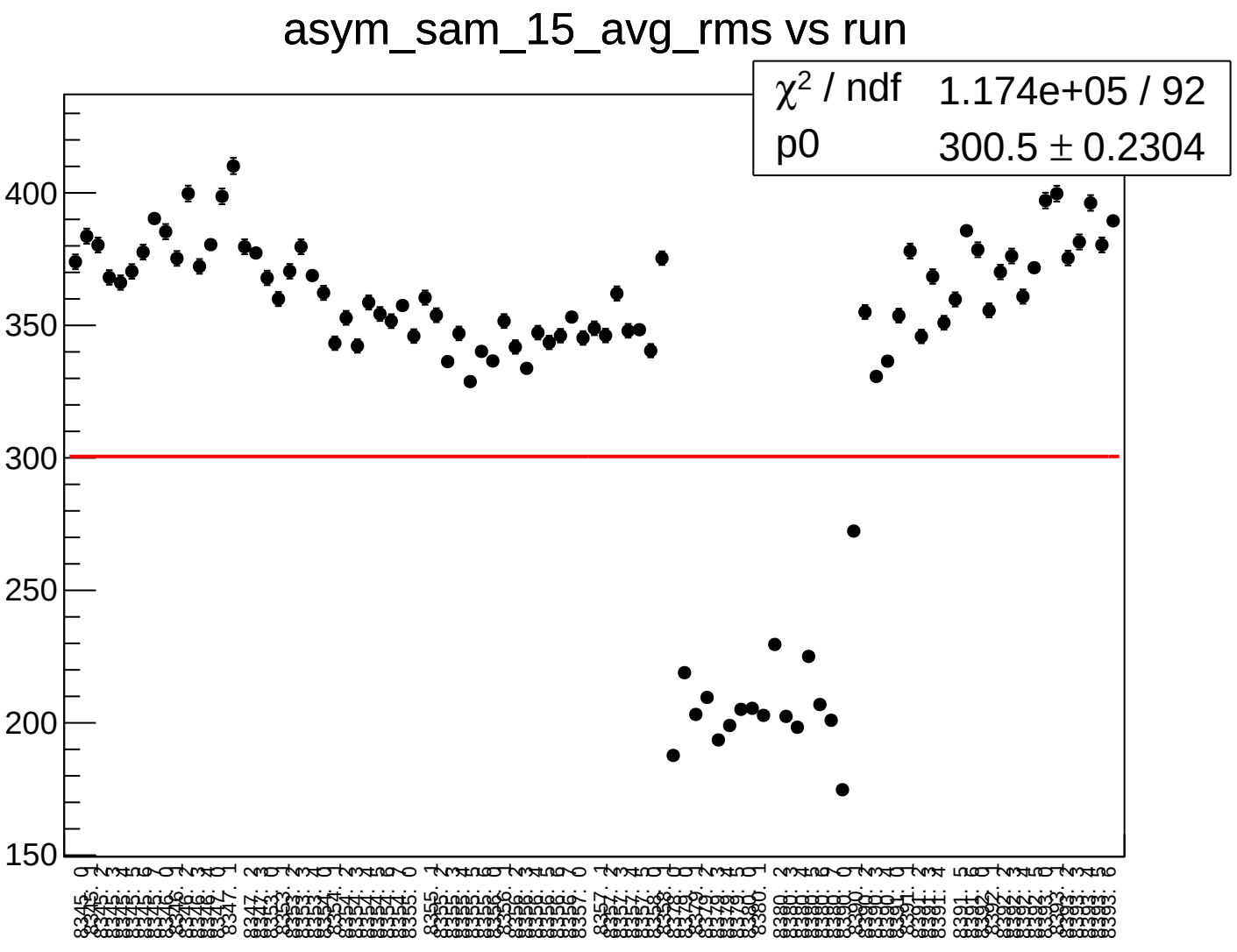

asym_sam_15_avg_eigen_dit_correction_mean vs run
χ² / ndf 102.4 / 92
p0 −505.7 ± 335.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean 2098
Std Dev 0
3
2
1
0
−1
−2

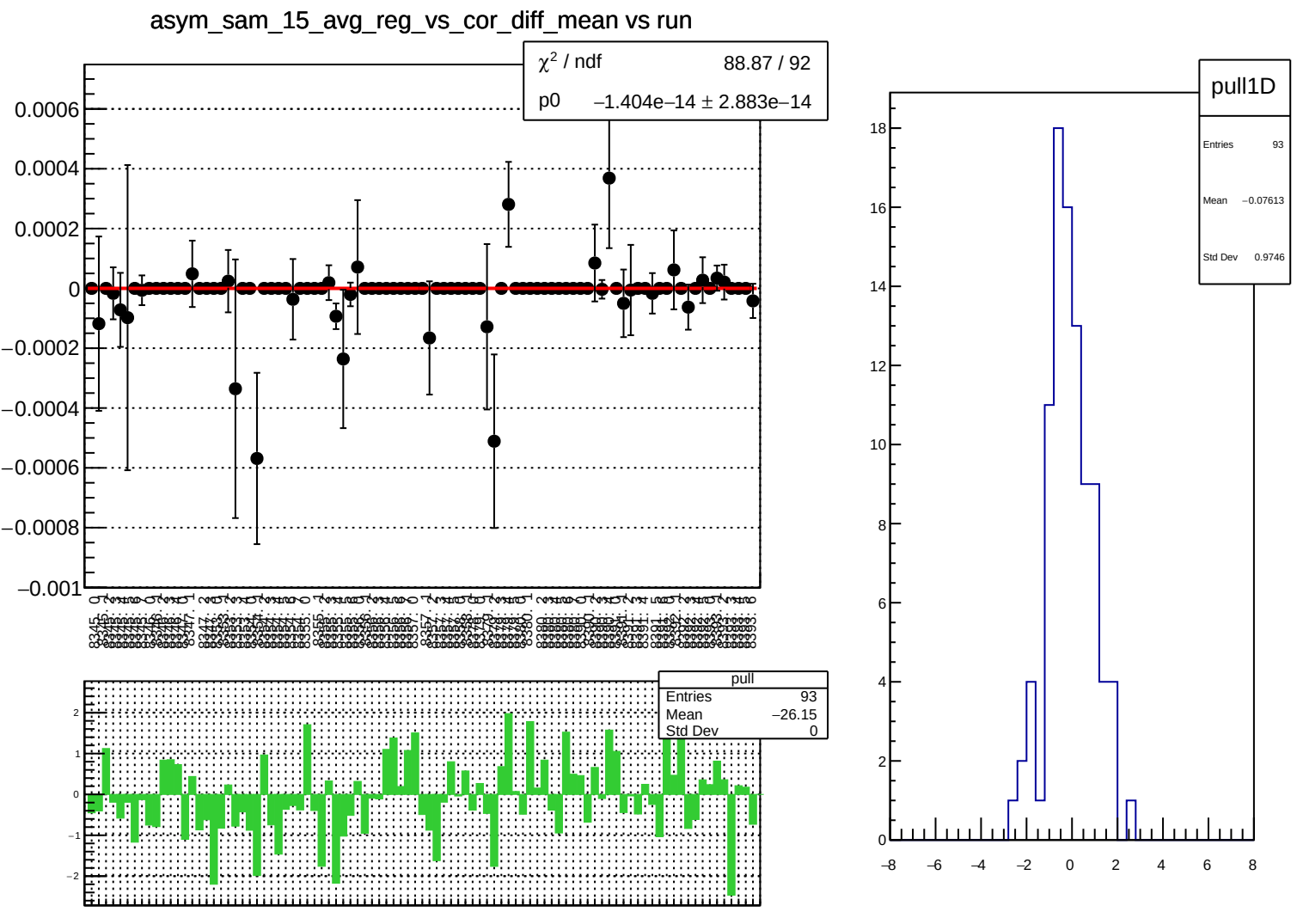

pull1D
Entries 93
Mean −0.001112
Std Dev 1.049
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

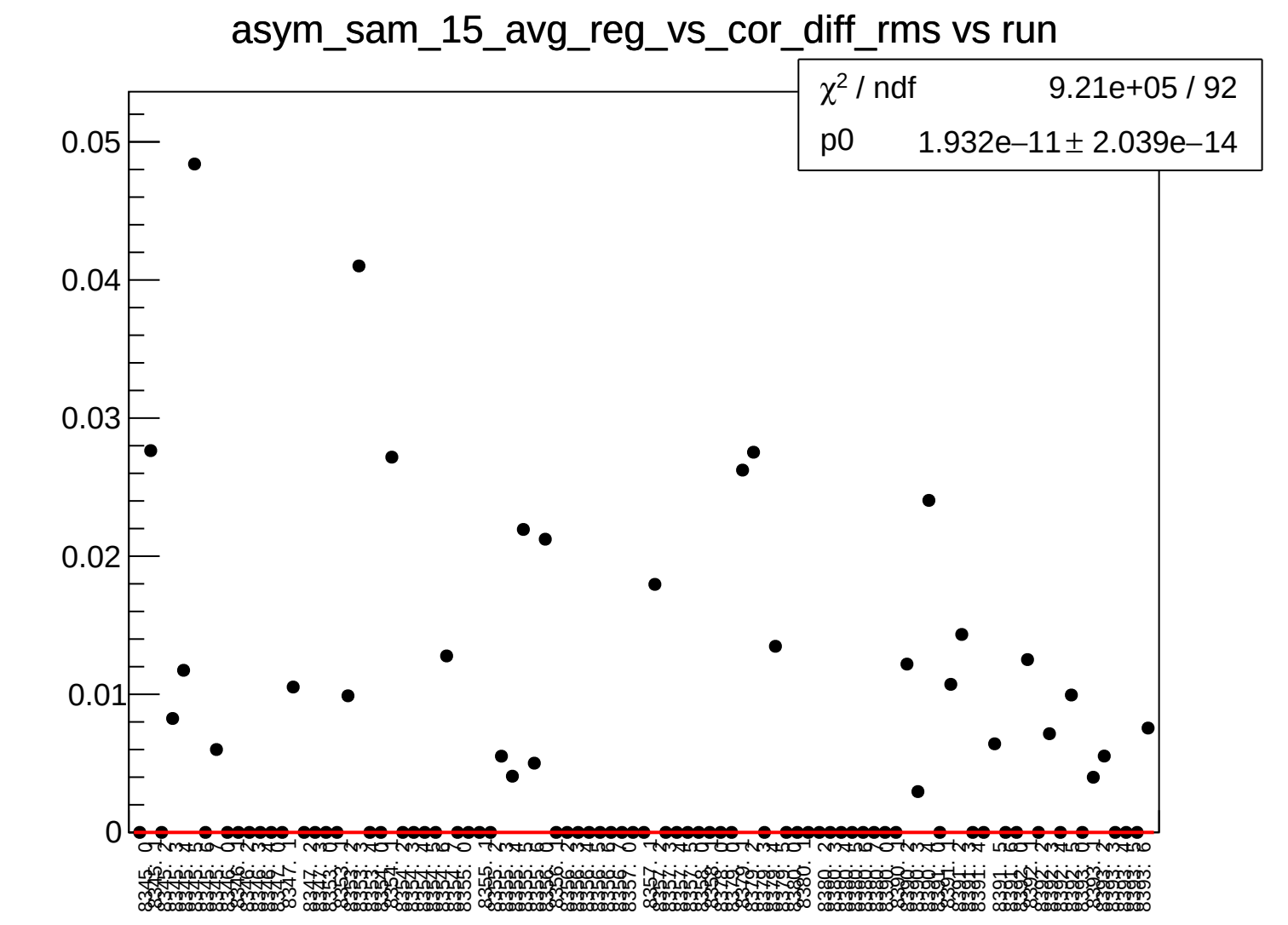

asym_sam_15_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.02e+05 / 92
p0 310.6 ± 0.2371
400
350
300
250
200

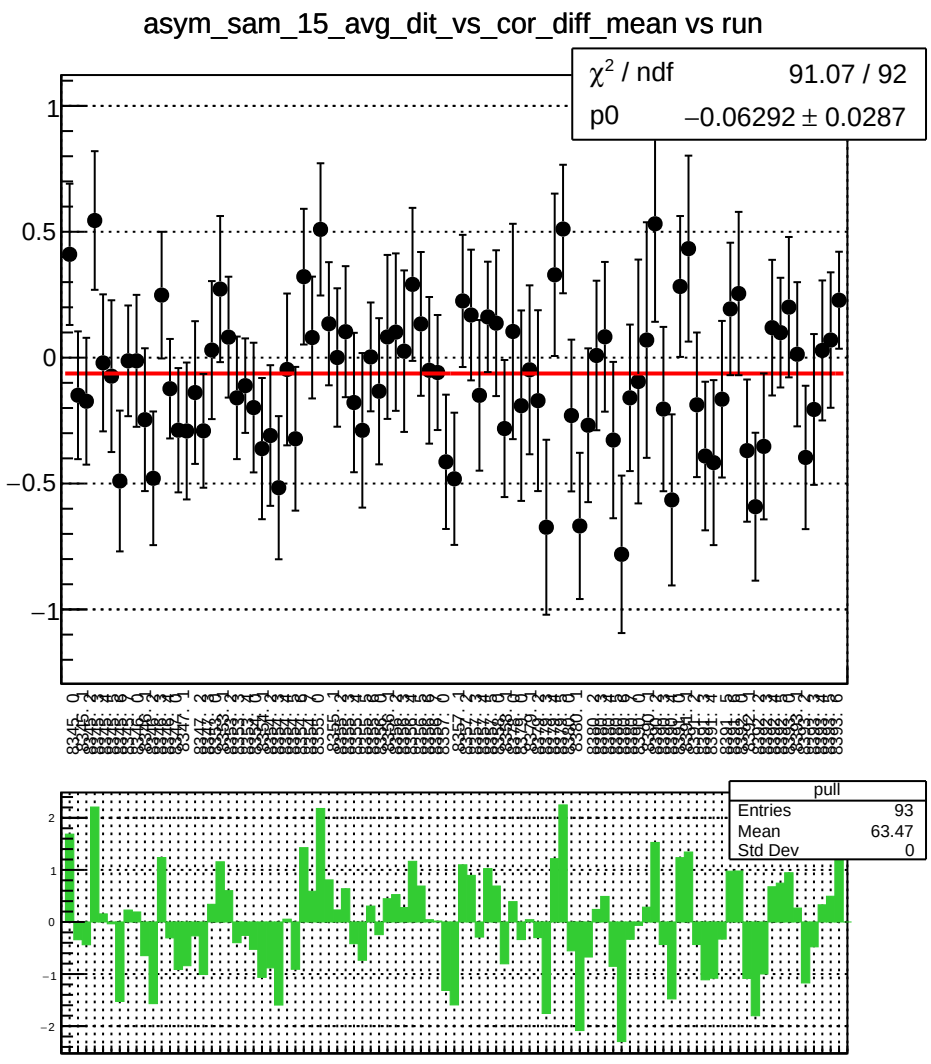

asym_sam_15_avg_mean vs run
χ² / ndf 98.24 / 92
p0 369.1 ± 325.8
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean 1380
Std Dev 0
2
1
0
−1
−2
−3

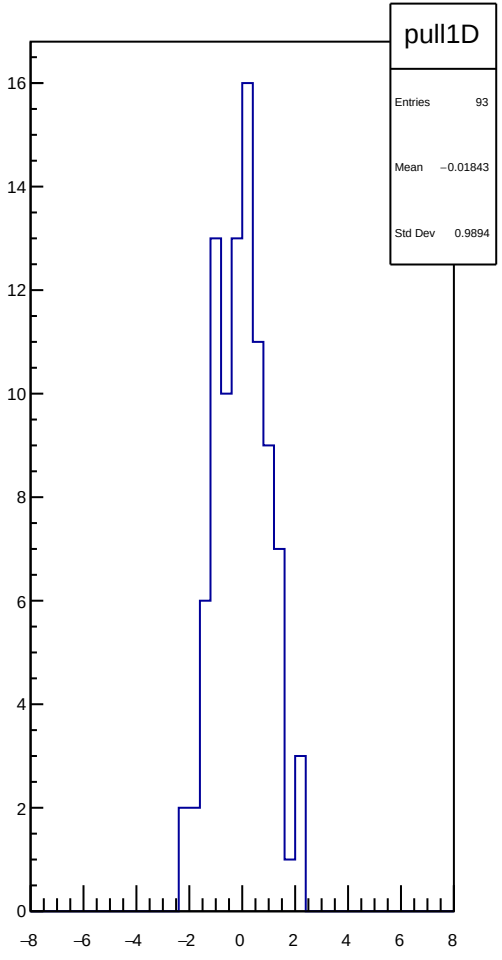

pull1D
Entries 93
Mean 0.001849
Std Dev 1.028
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

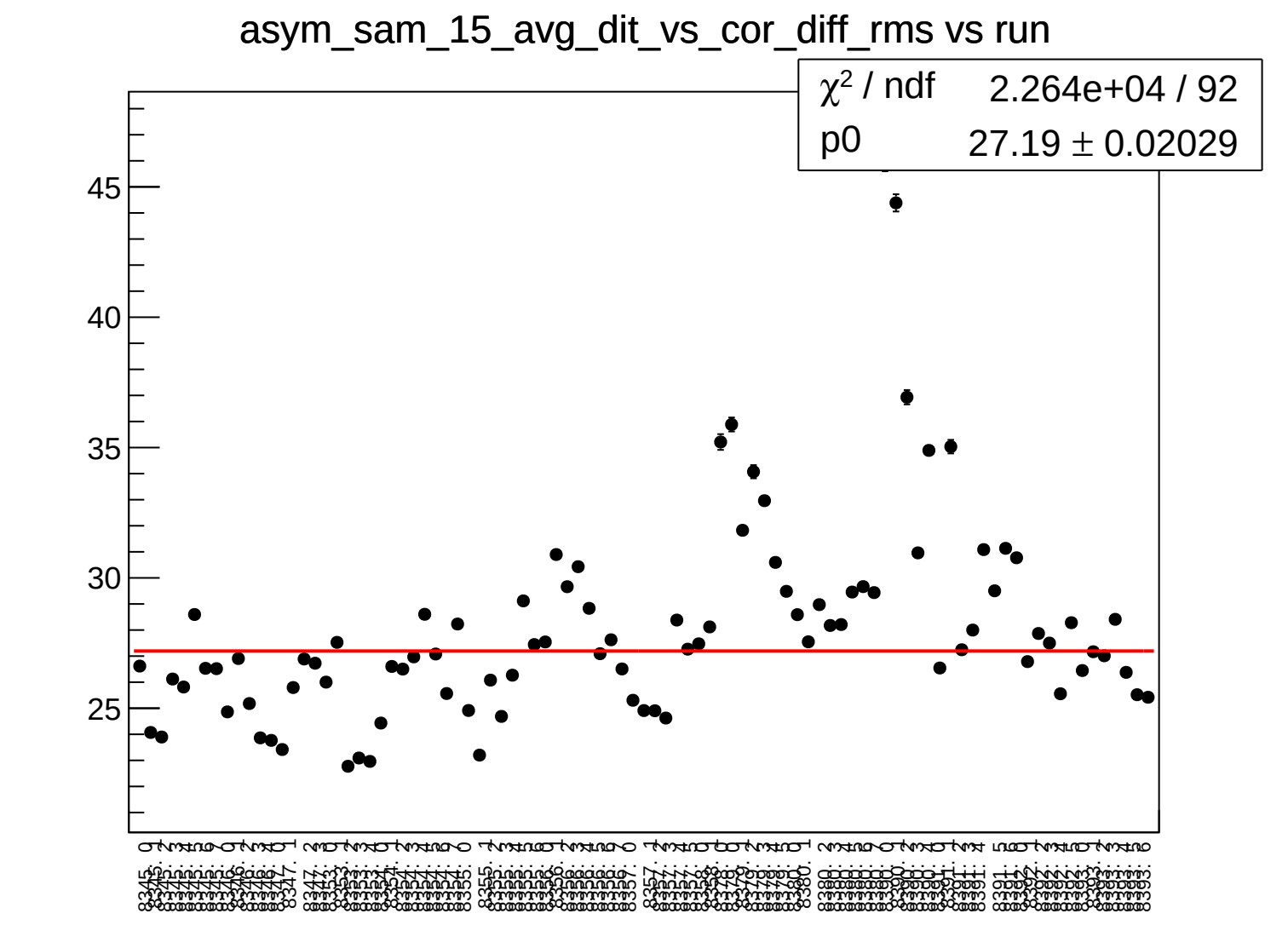

asym_sam_15_avg_rms vs run
χ^2 / ndf 1.174e+05 / 92
p0 300.5 ± 0.2304
400
350
300
250
200
150

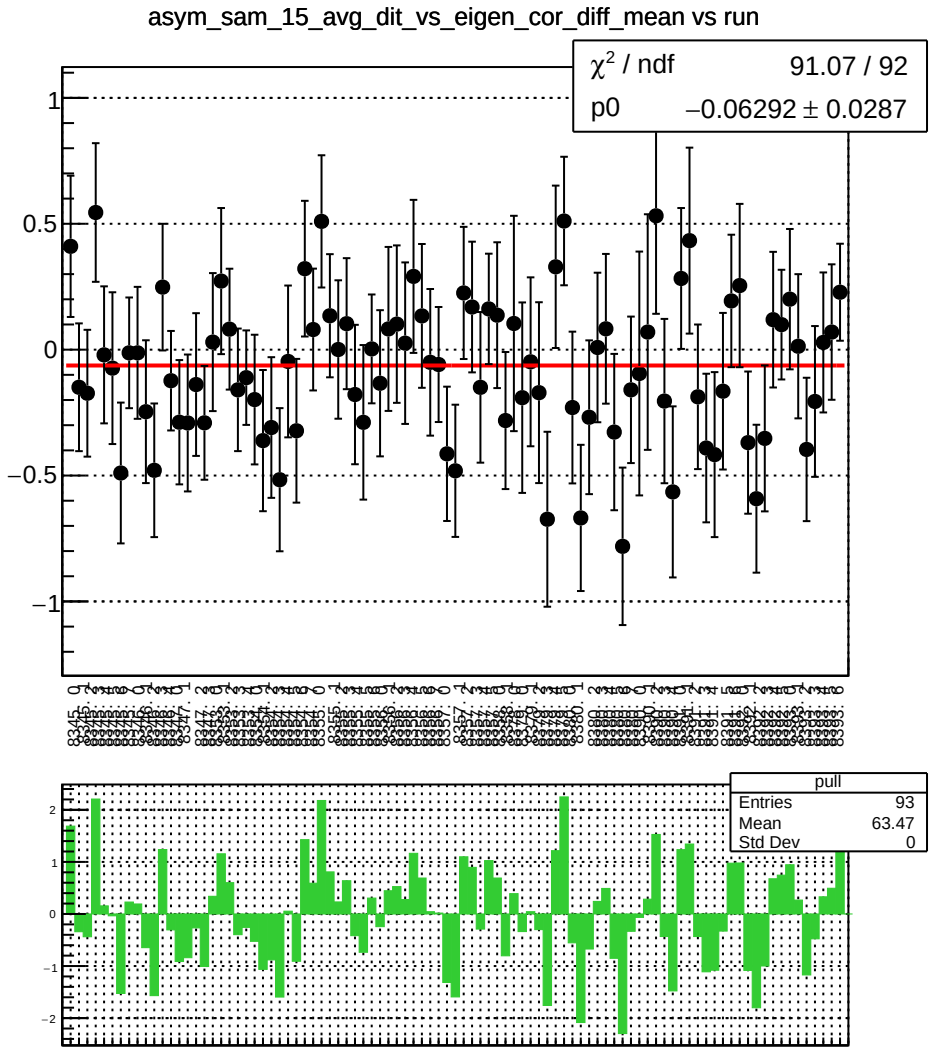

asym_sam_15_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 88.87 / 92
p0 −1.404e−14 ± 2.883e−14
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 93
Mean −26.15
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.07613
Std Dev 0.9746
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

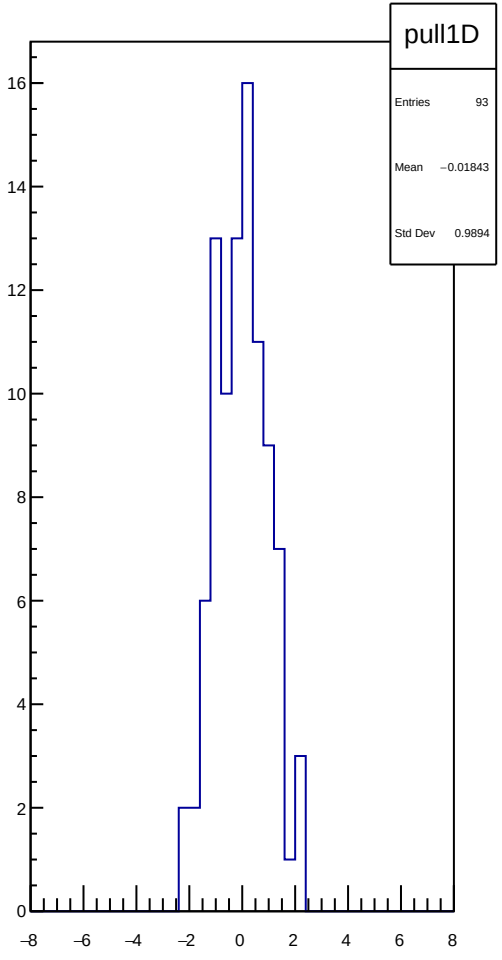

asym_sam_15_avg_reg_vs_cor_diff_rms vs run
χ^2 / ndf 9.21e+05 / 92
p0 1.932e−11 ± 2.039e−14
0.05
0.04
0.03
0.02
0.01
0

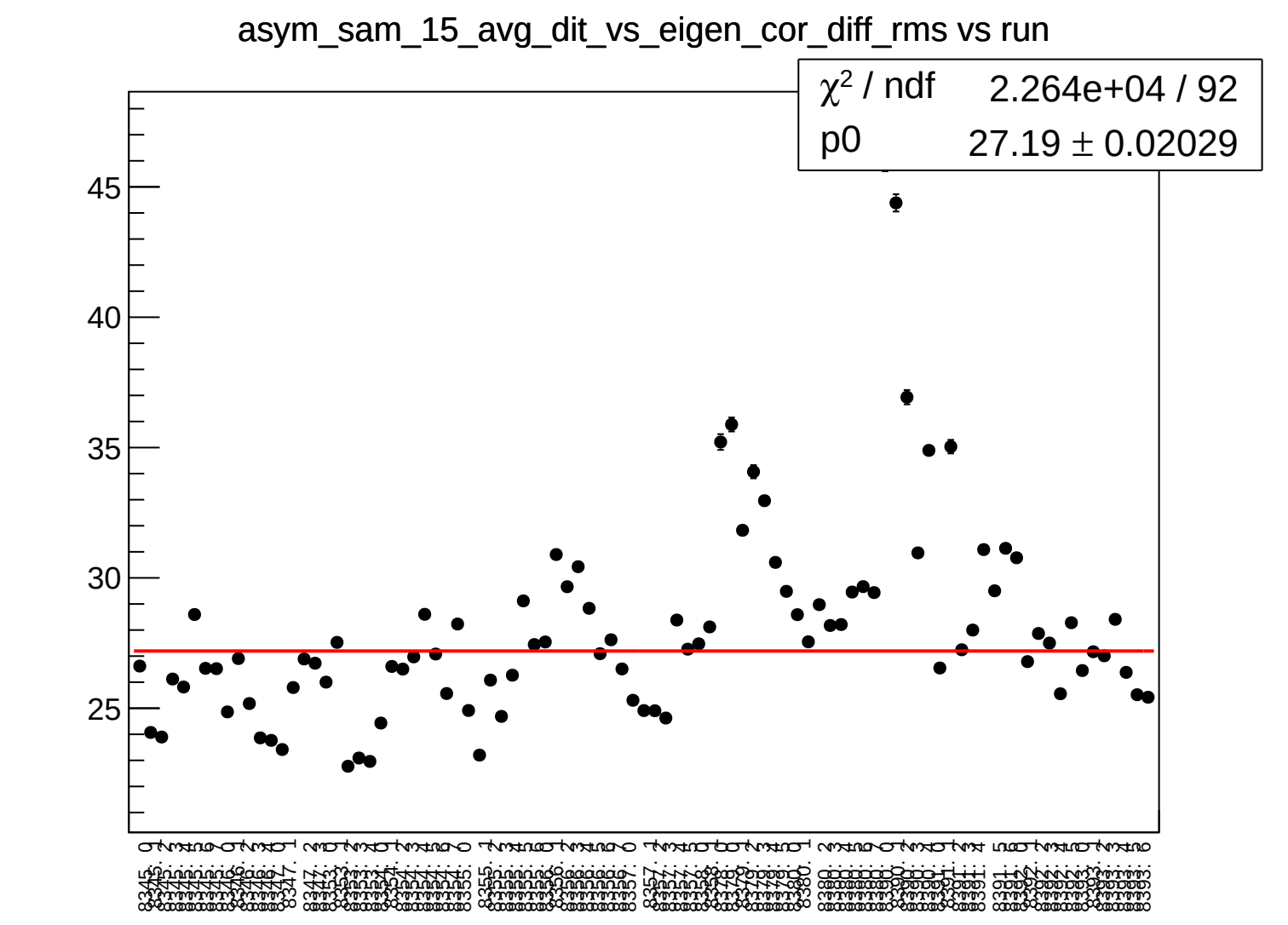

asym_sam_15_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 91.07 / 92
p0 −0.06292 ± 0.0287
pull
Entries 93
Mean 63.47
Std Dev 0

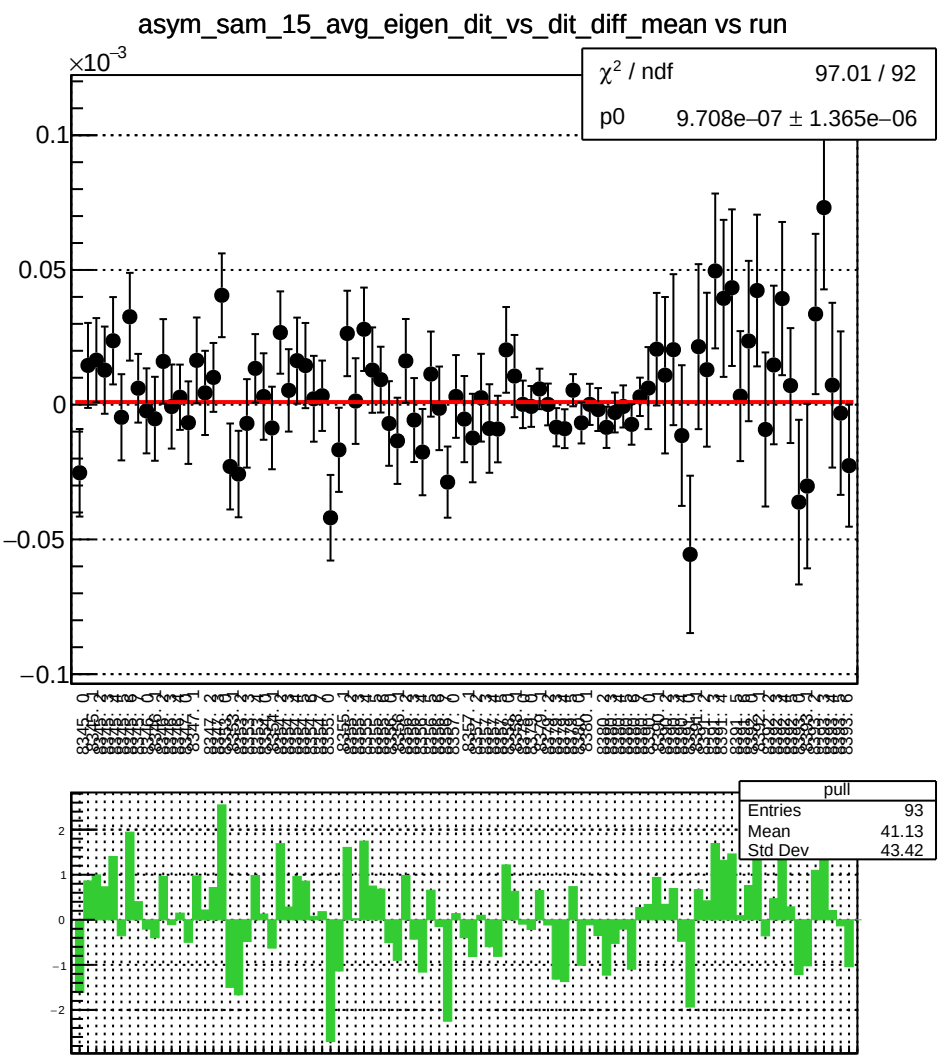

pull1D
Entries 93
Mean −0.01843
Std Dev 0.9894

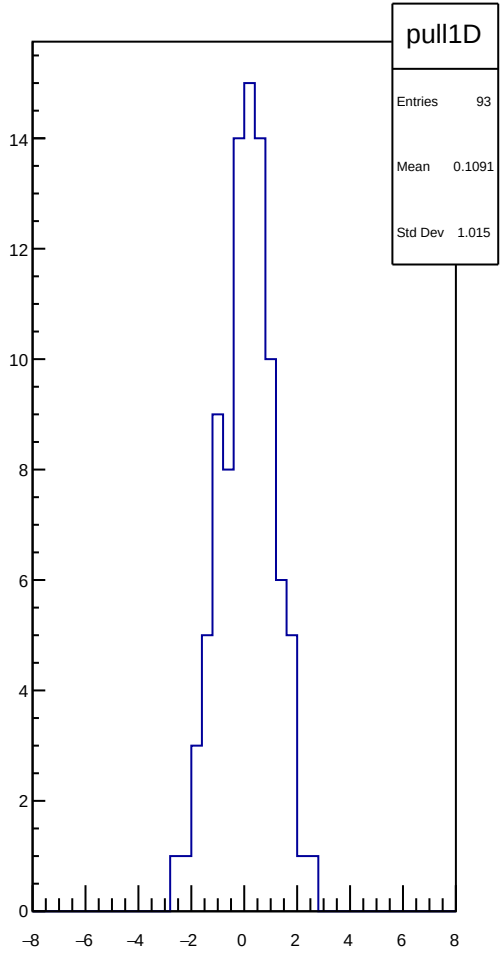

asym_sam_15_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.264e+04 / 92
p0 27.19 ± 0.02029
45
40
35
30
25

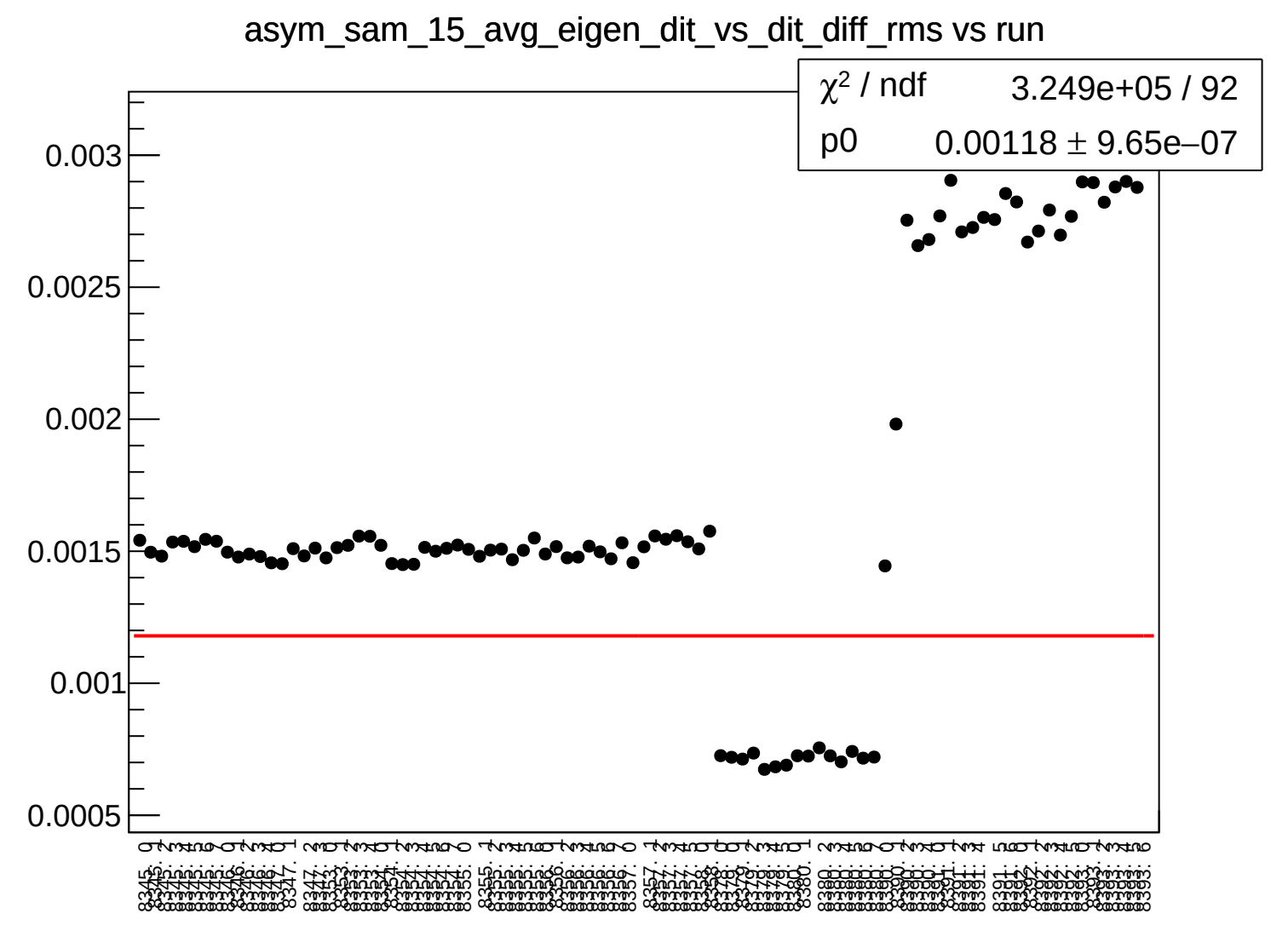

asym_sam_15_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.07 / 92
p0 −0.06292 ± 0.0287
pull
Entries 93
Mean 63.47
Std Dev 0

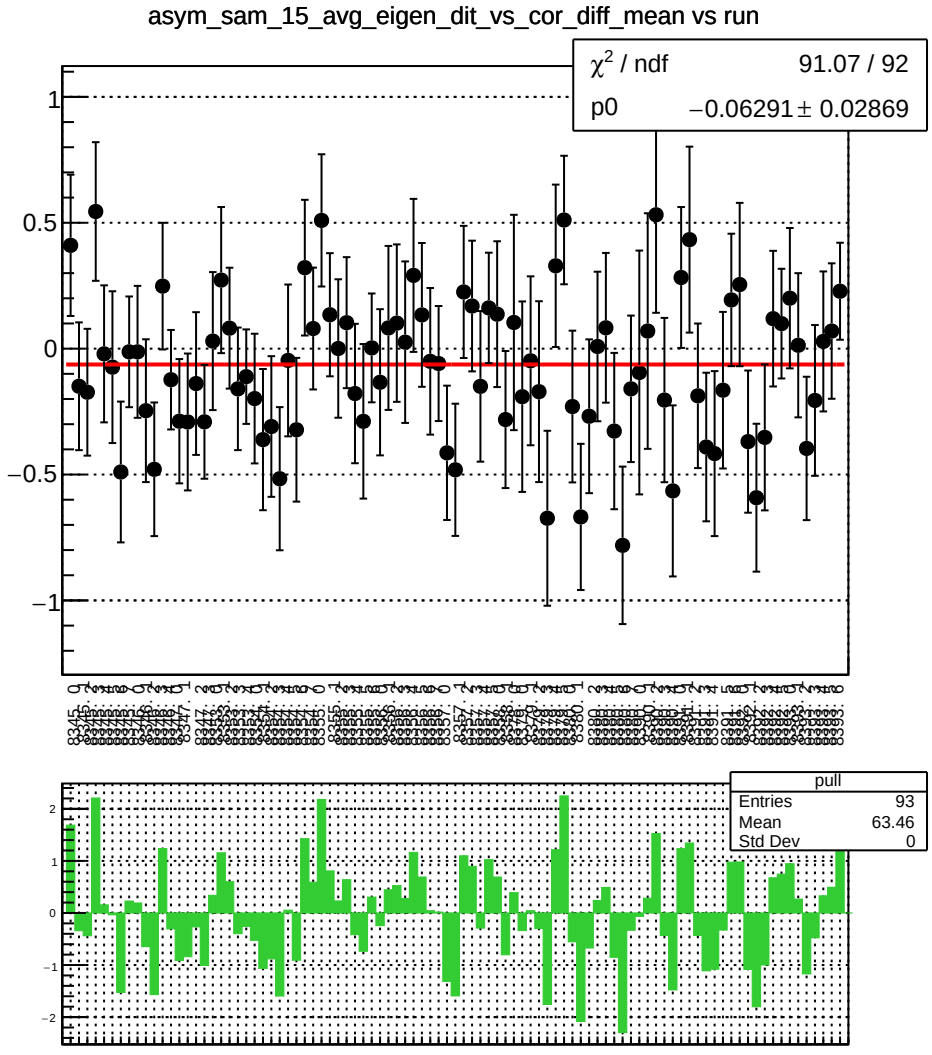

pull1D
Entries 93
Mean −0.01843
Std Dev 0.9894

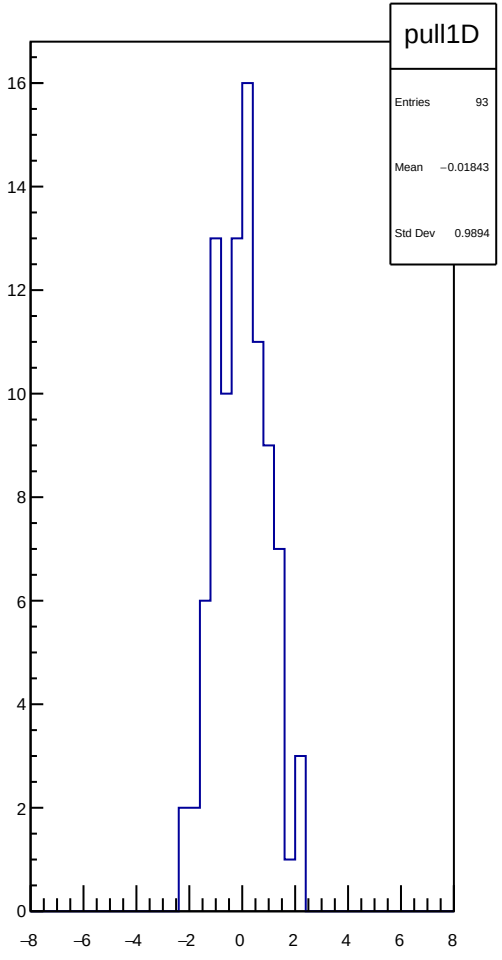

asym_sam_15_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.264e+04 / 92
p0 27.19 ± 0.02029
45
40
35
30
25

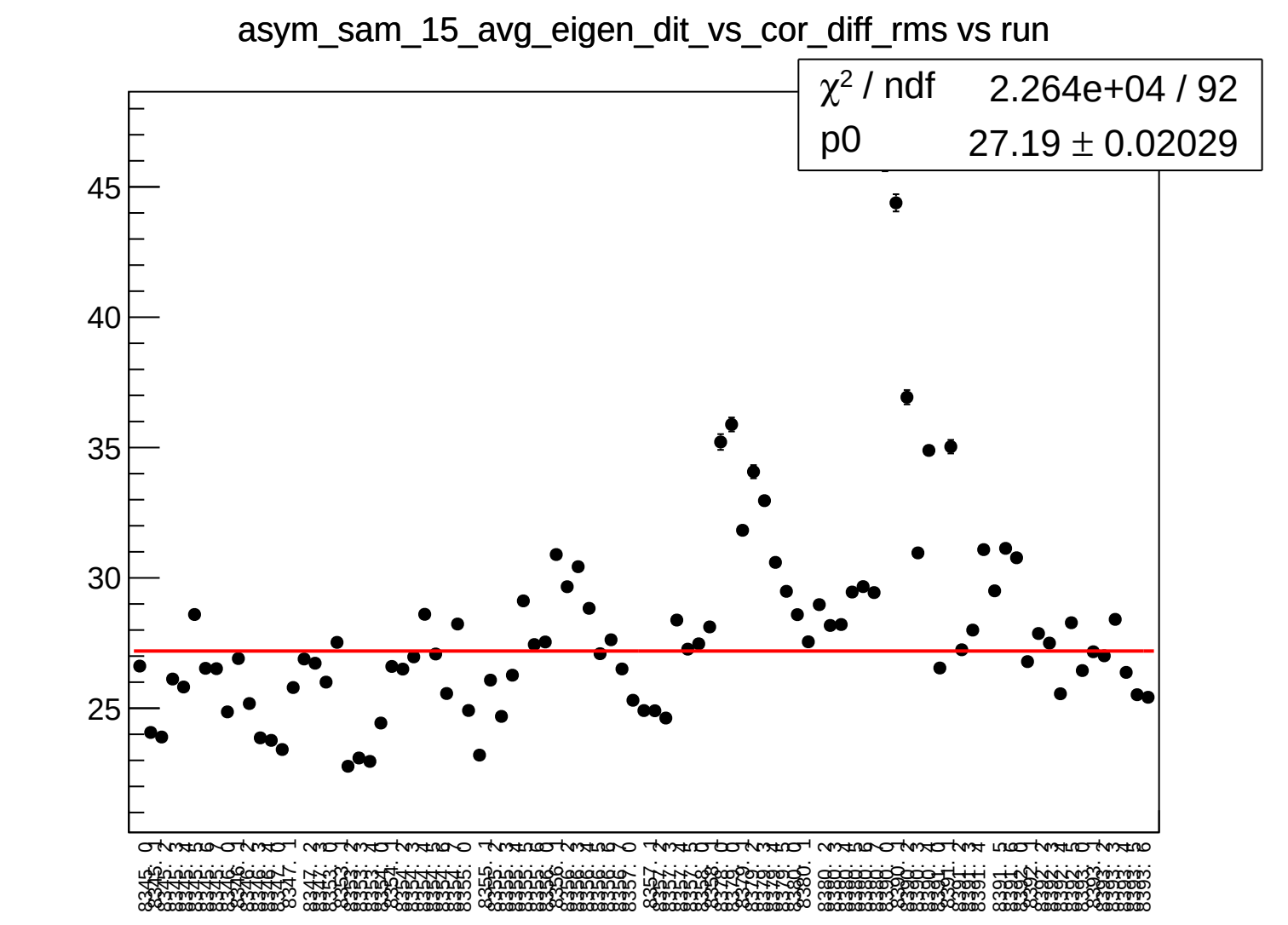

asym_sam_15_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.01 / 92
p0 9.708e−07 ± 1.365e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 93
Mean 41.13
Std Dev 43.42
2
1
0
−1
−2

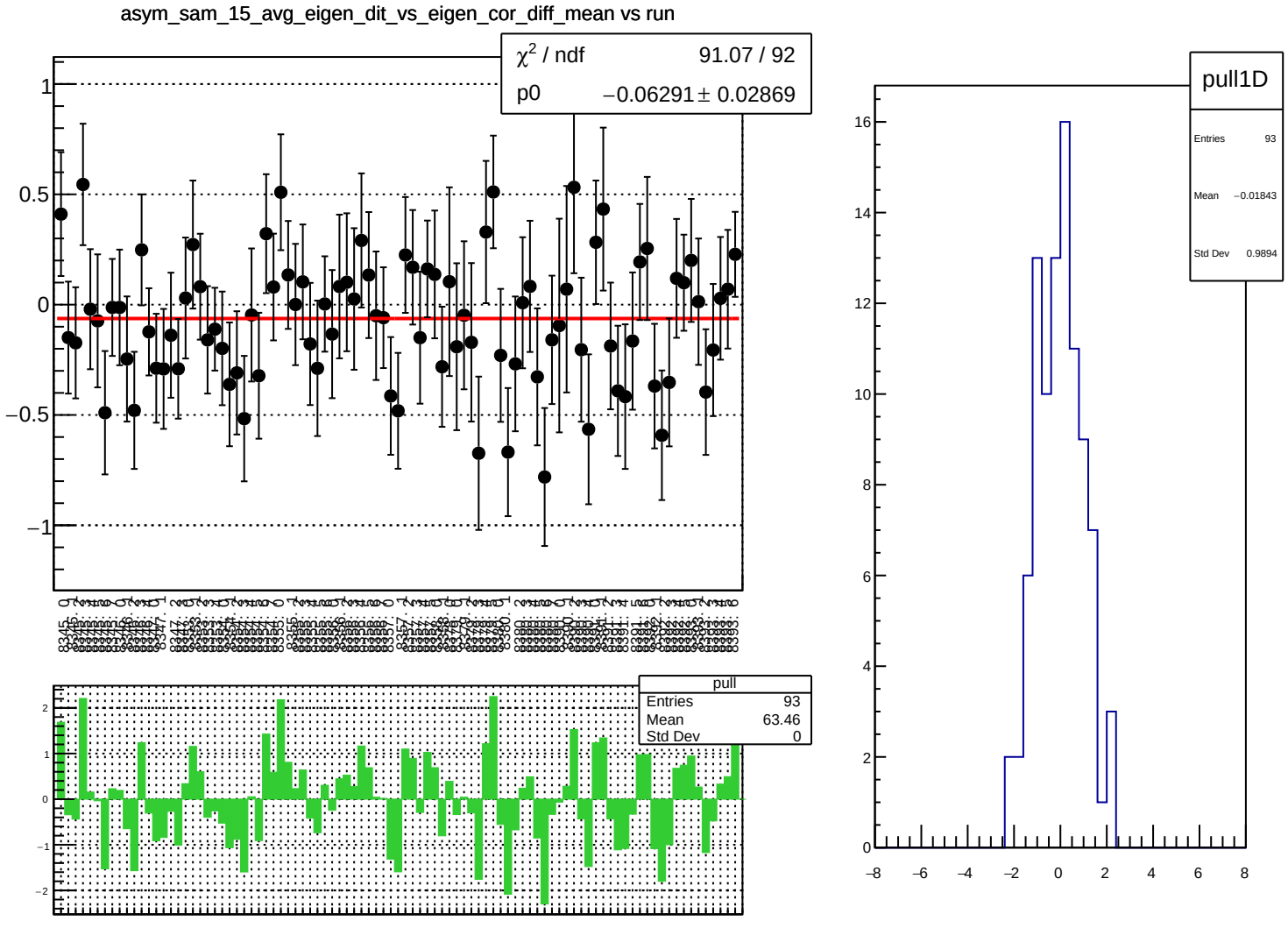

pull1D
Entries 93
Mean 0.1091
Std Dev 1.015
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

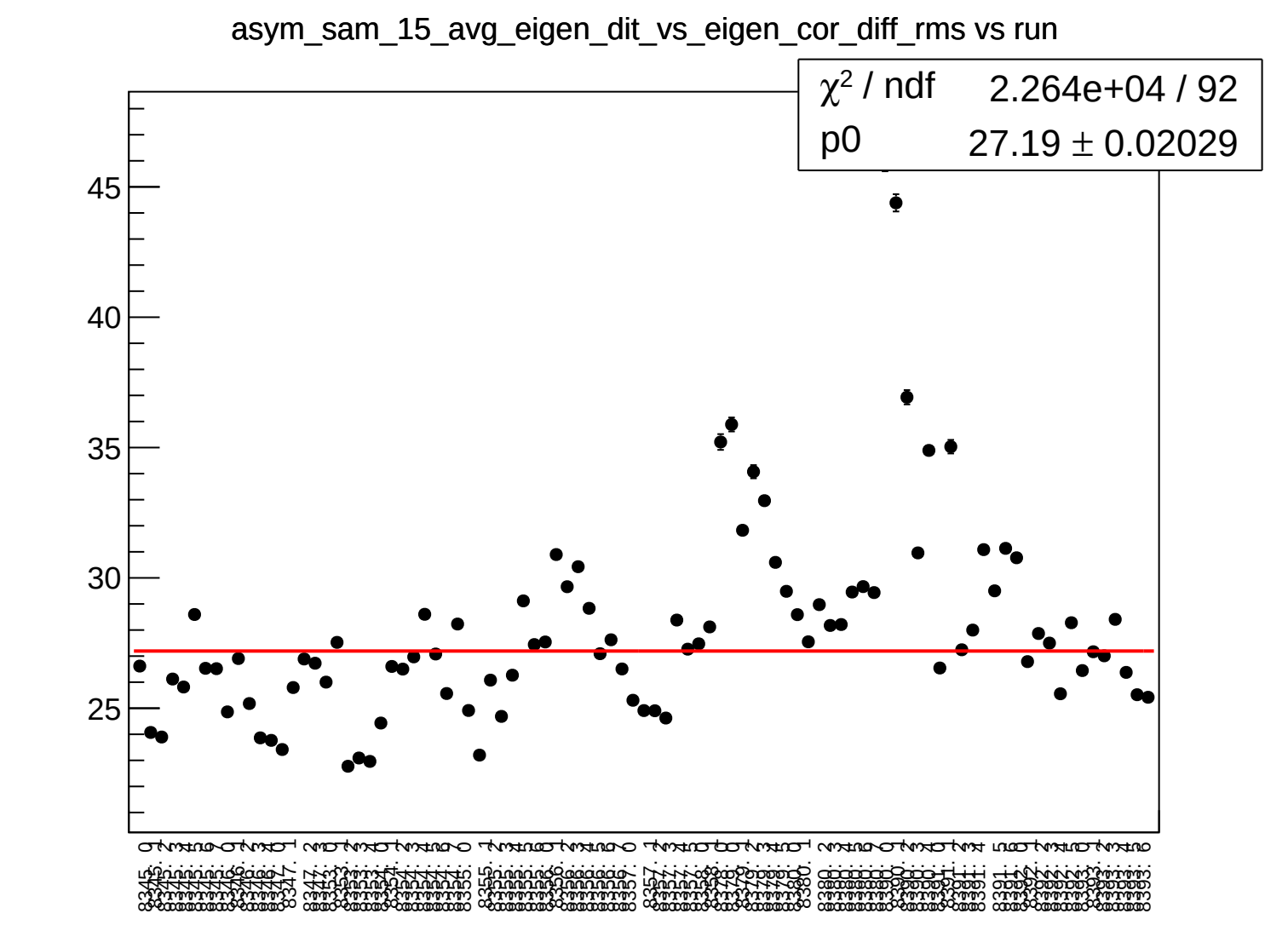

asym_sam_15_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.249e+05 / 92
p0 0.00118 ± 9.65e−07
0.003
0.0025
0.002
0.0015
0.001
0.0005

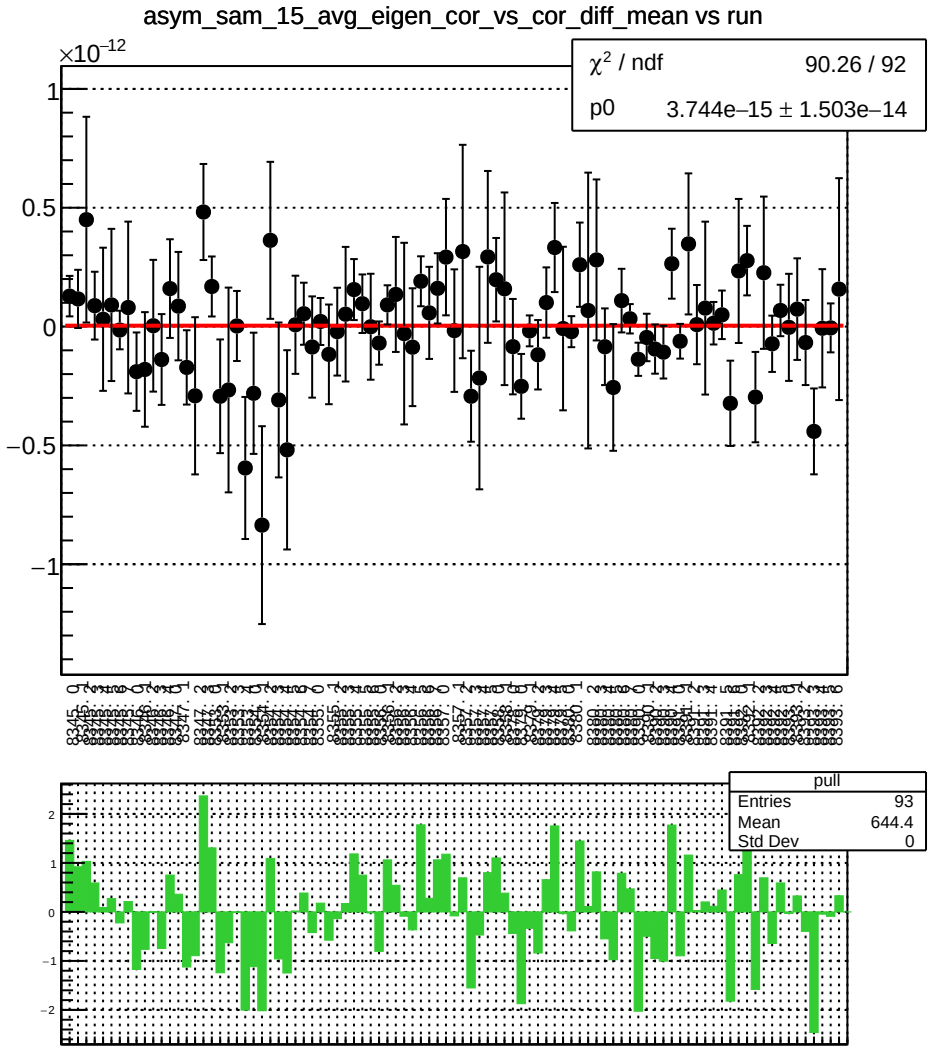

asym_sam_15_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.07 / 92
p0 −0.06291 ± 0.02869
pull
Entries 93
Mean 63.46
Std Dev 0

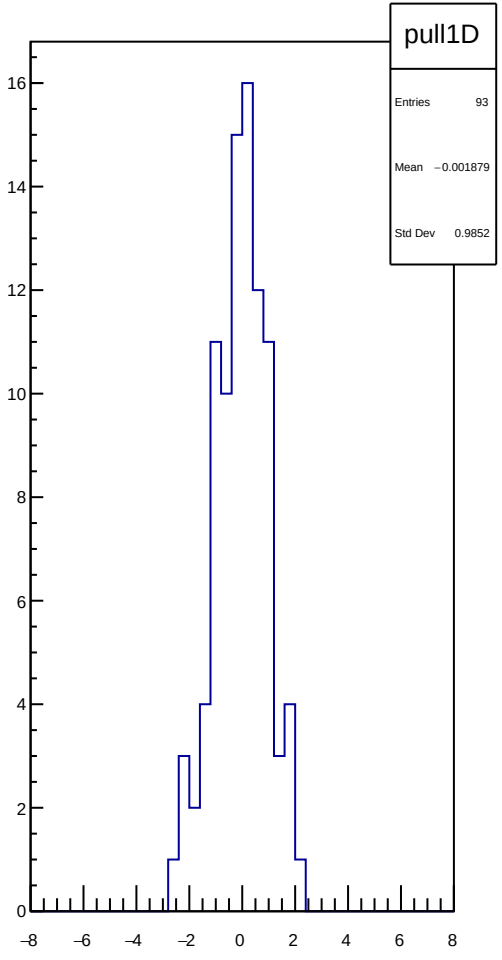

pull1D
Entries 93
Mean −0.01843
Std Dev 0.9894

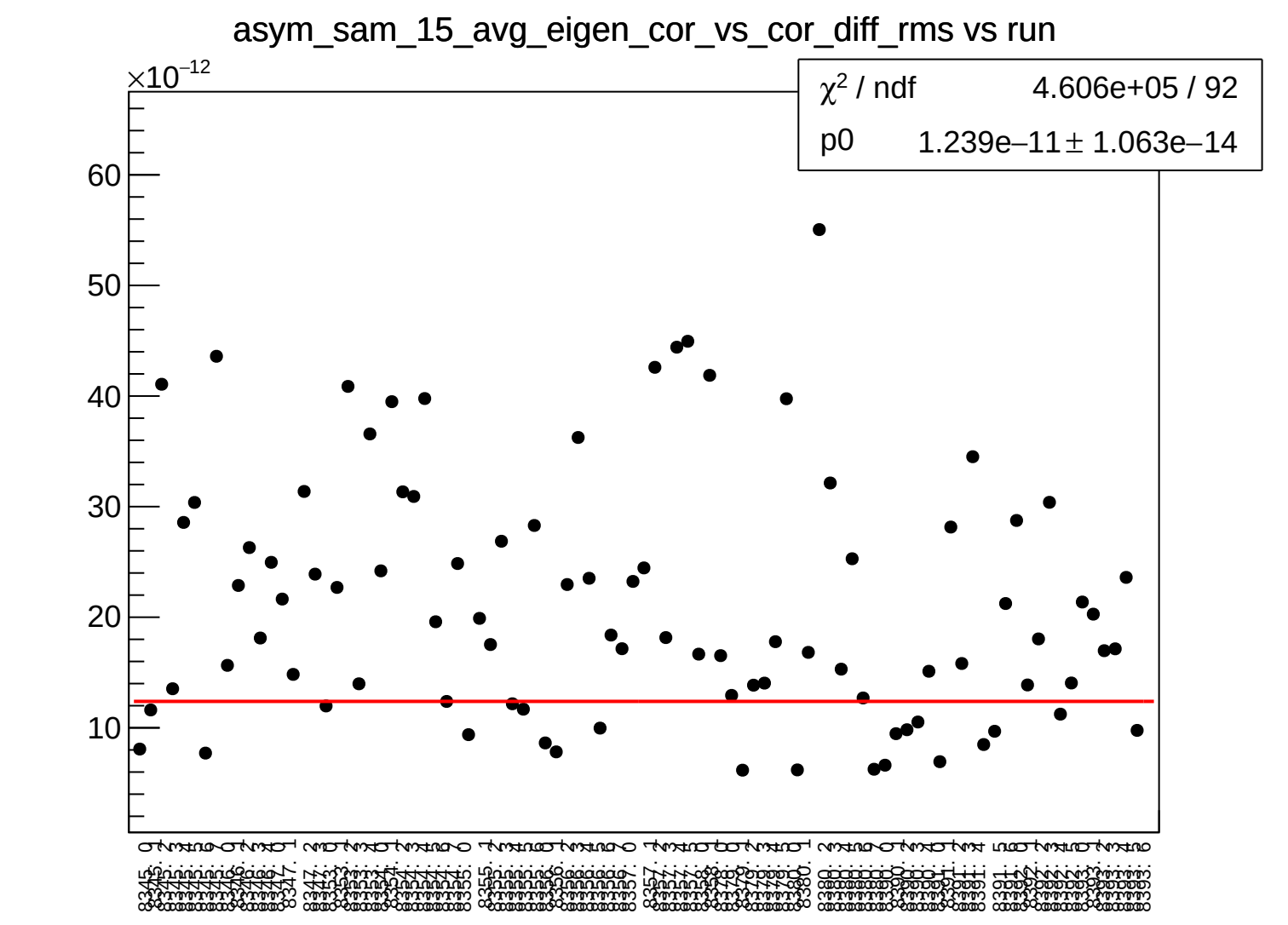

asym_sam_15_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.264e+04 / 92
p0 27.19 ± 0.02029
45
40
35
30
25

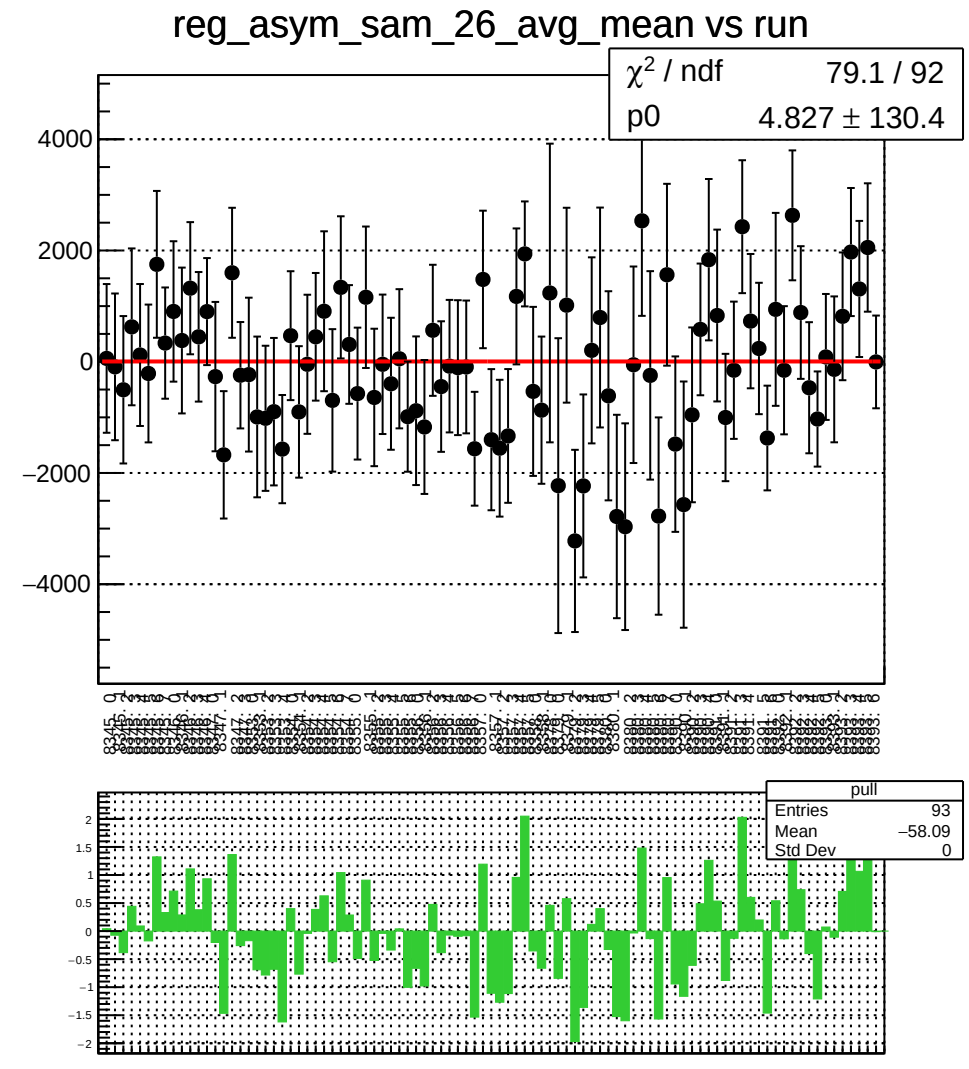

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.07 / 92
p0 −0.06291 ± 0.02869
pull
Entries 93
Mean 63.46
Std Dev 0
pull1D
Entries 93
Mean −0.01843
Std Dev 0.9894

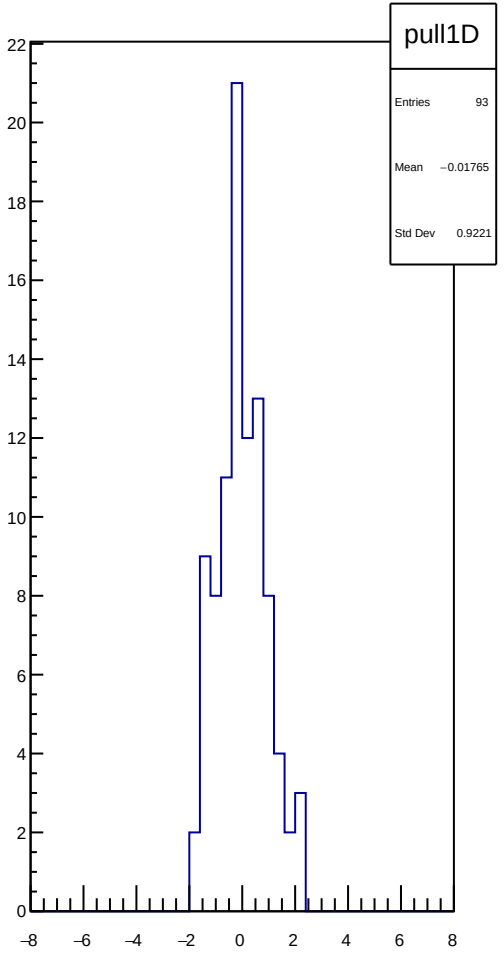

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.264e+04 / 92
p0 27.19 ± 0.02029
45
40
35
30
25

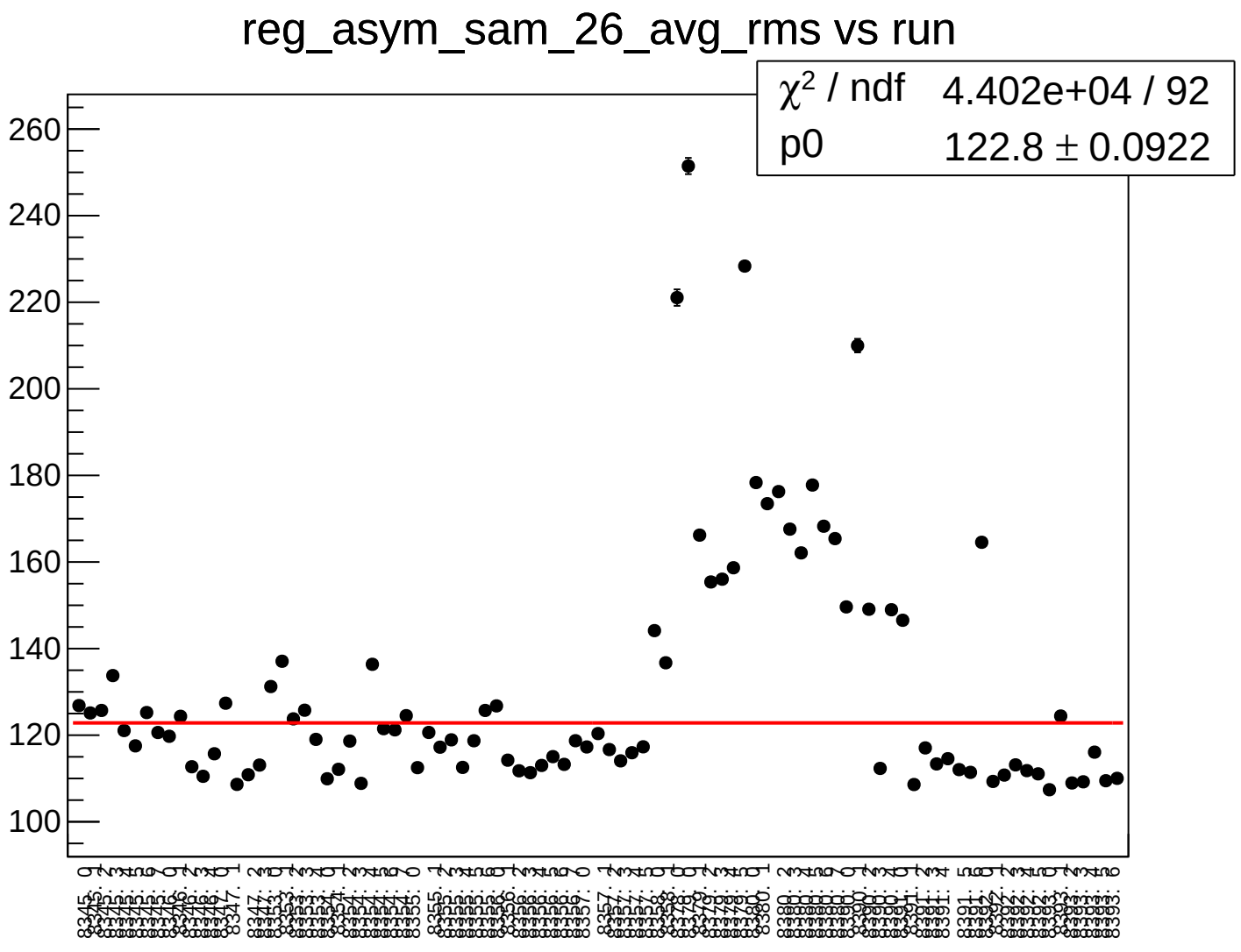

asym_sam_15_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.26 / 92
p0 3.744e−15 ± 1.503e−14
pull
Entries 93
Mean 644.4
Std Dev 0

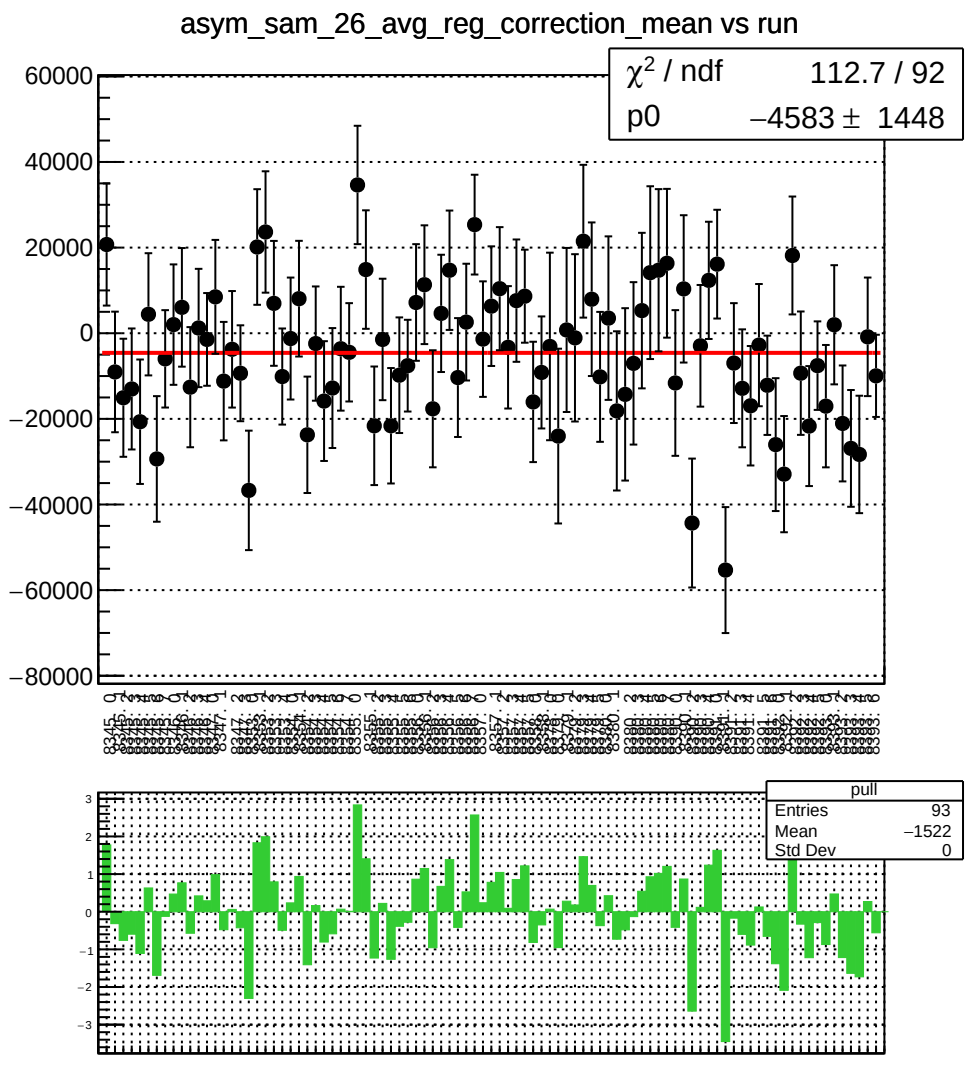

pull1D
Entries 93
Mean −0.001879
Std Dev 0.9852

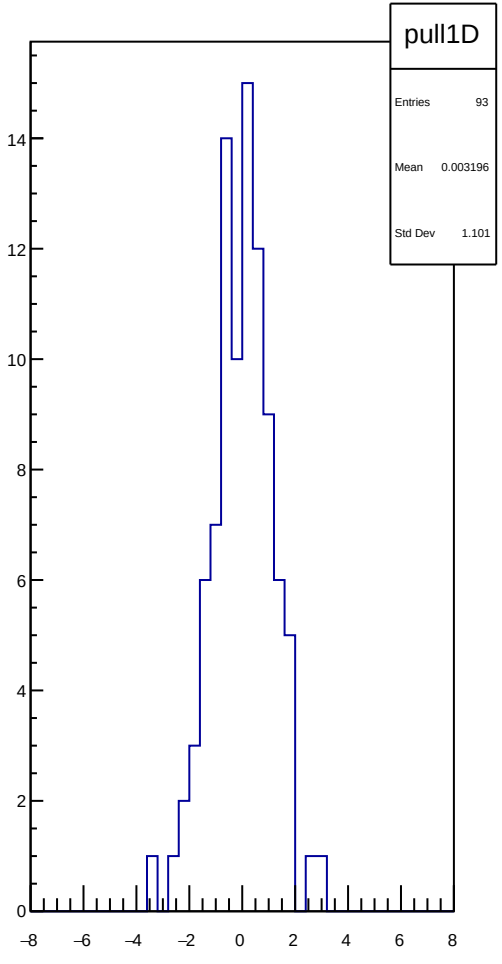

asym_sam_15_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.606e+05 / 92
p0 1.239e−11 ± 1.063e−14
60
50
40
30
20
10

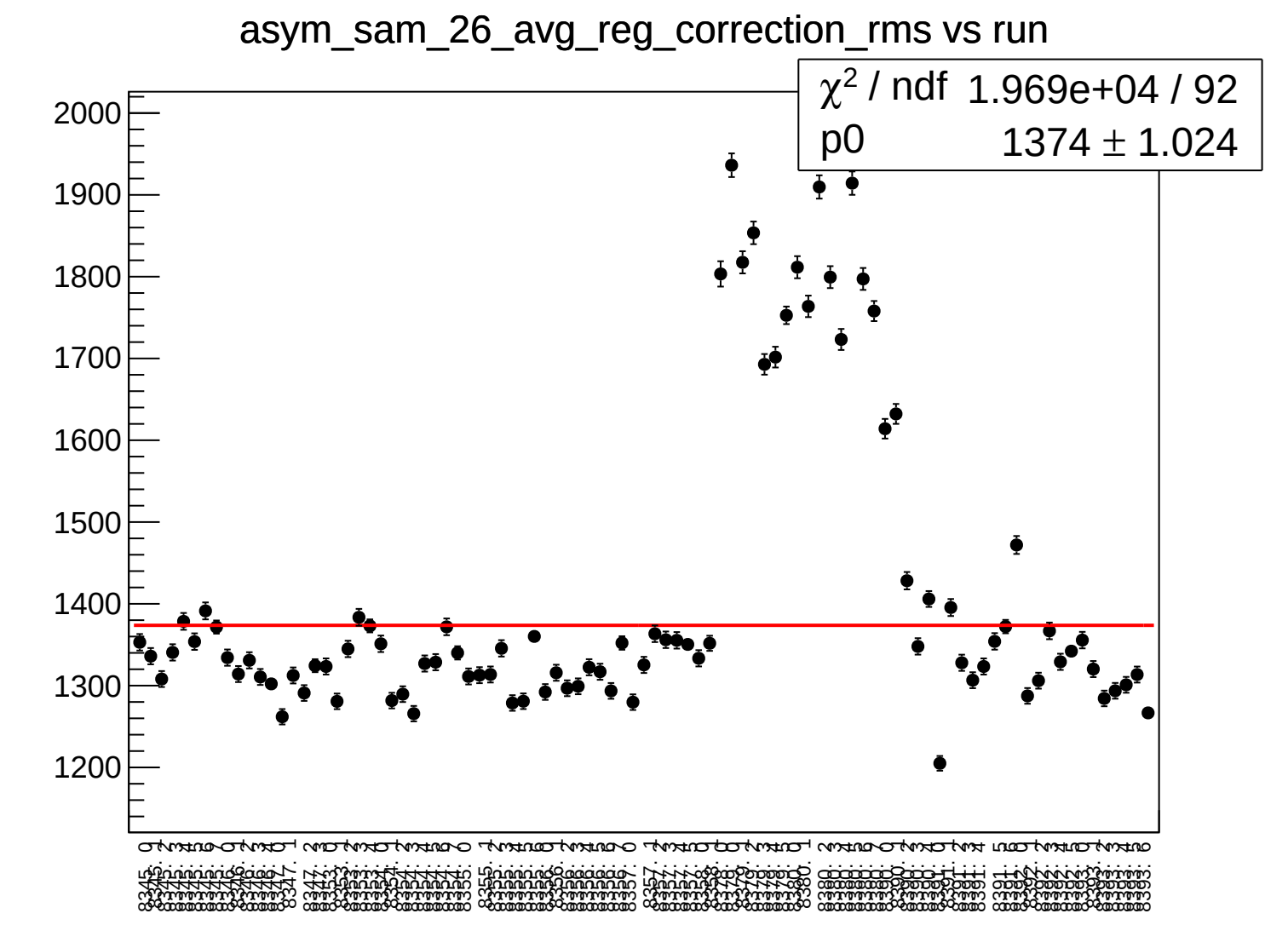

reg_asym_sam_26_avg_mean vs run
χ² / ndf 79.1 / 92
p0 4.827 ± 130.4
4000
2000
0
−2000
−4000
pull
Entries 93
Mean −58.09
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

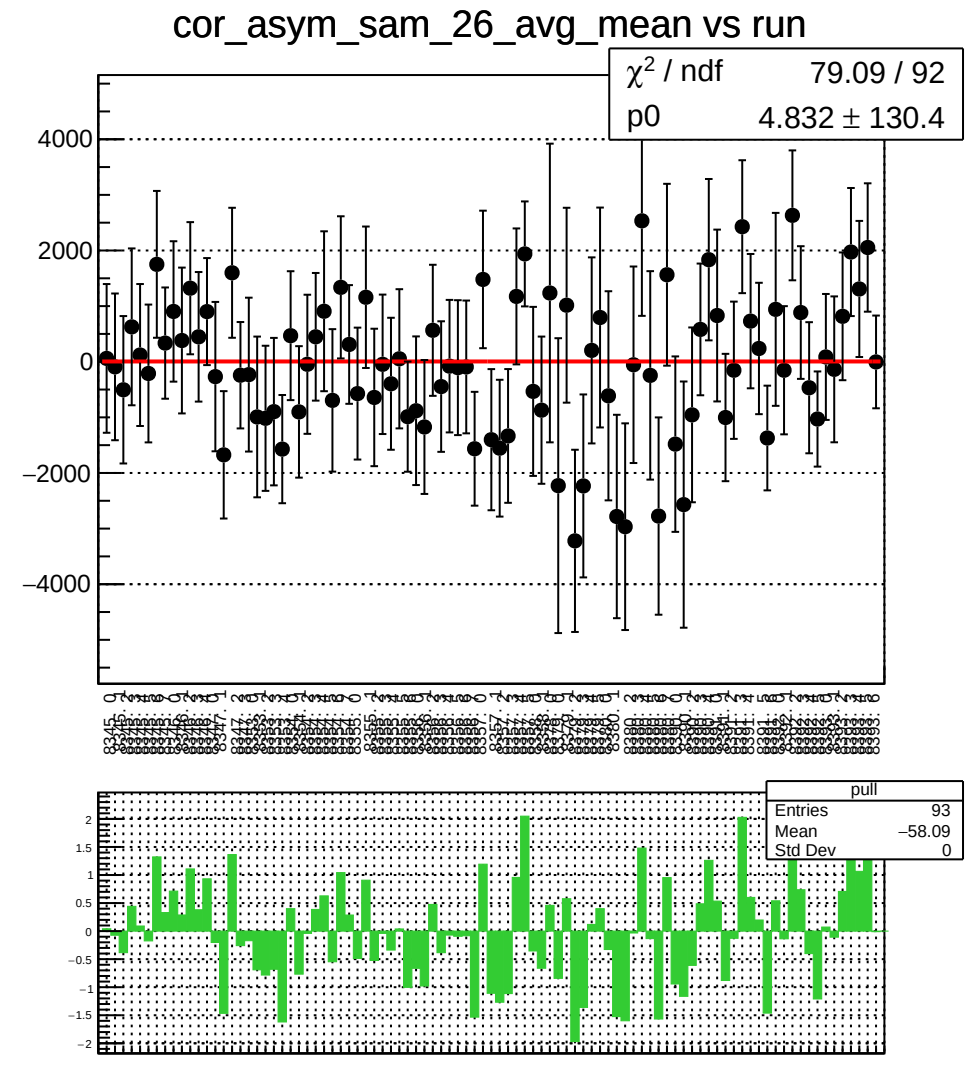

pull1D
Entries 93
Mean −0.01765
Std Dev 0.9221
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

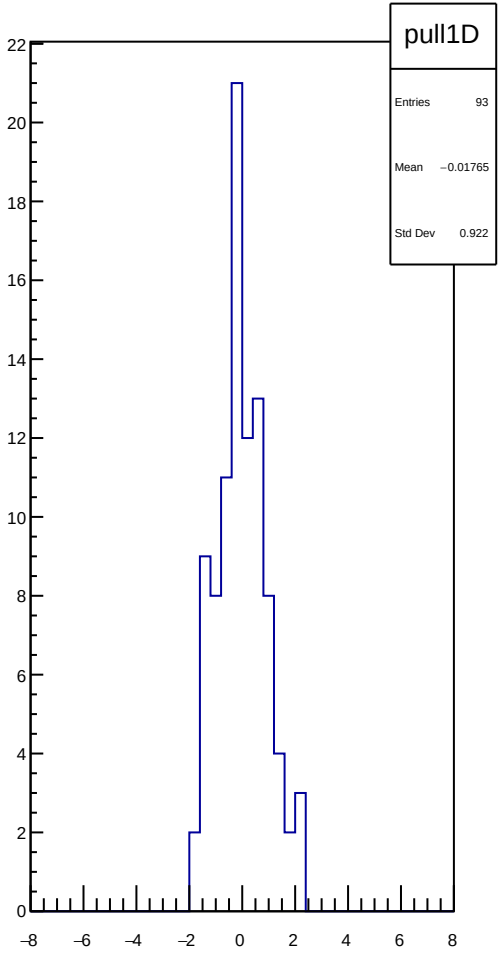

reg_asym_sam_26_avg_rms vs run
χ² / ndf 4.402e+04 / 92
p0 122.8 ± 0.0922
260
240
220
200
180
160
140
120
100

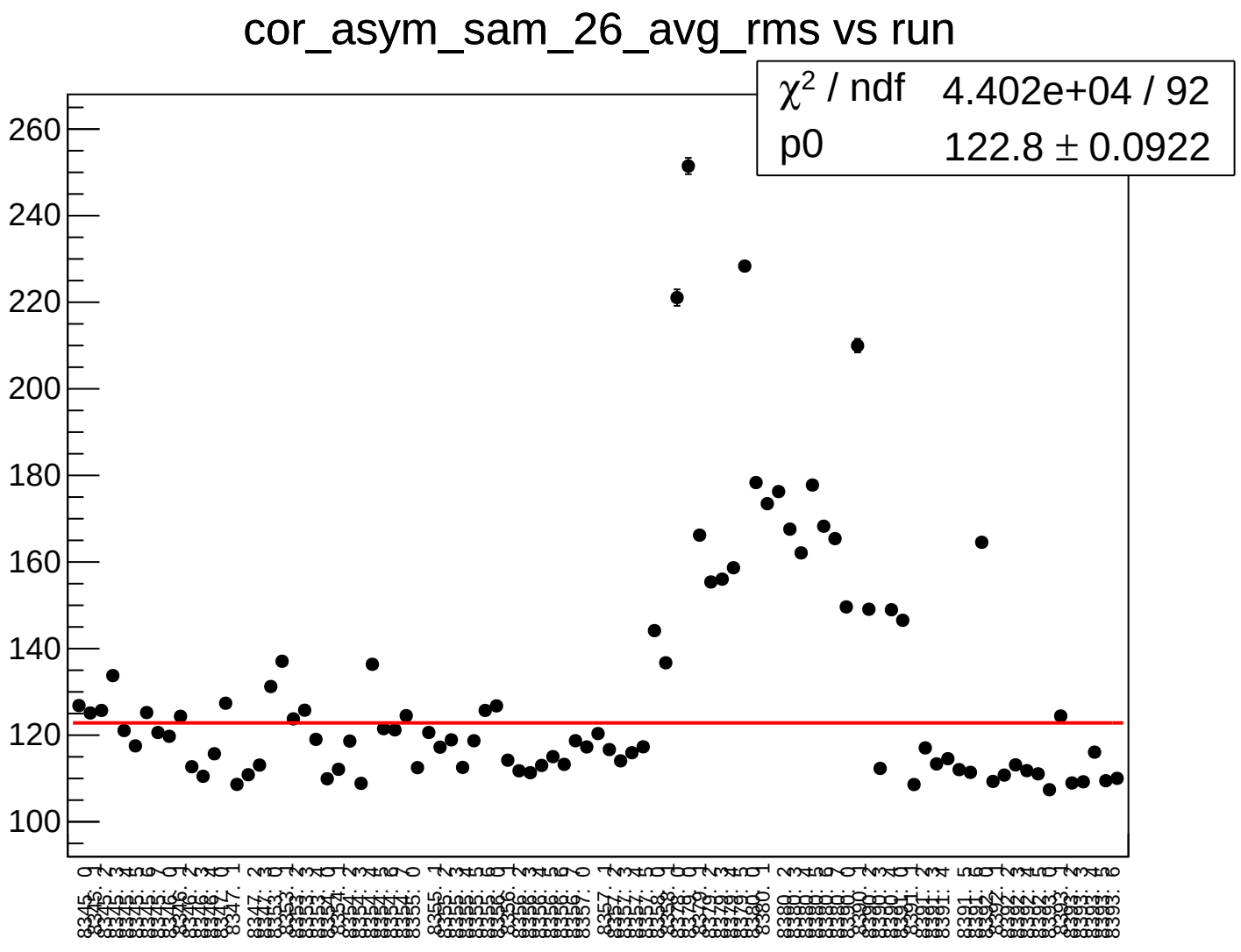

asym_sam_26_avg_reg_correction_mean vs run
χ² / ndf 112.7 / 92
p0 −4583 ± 1448
pull
Entries 93
Mean −1522
Std Dev 0

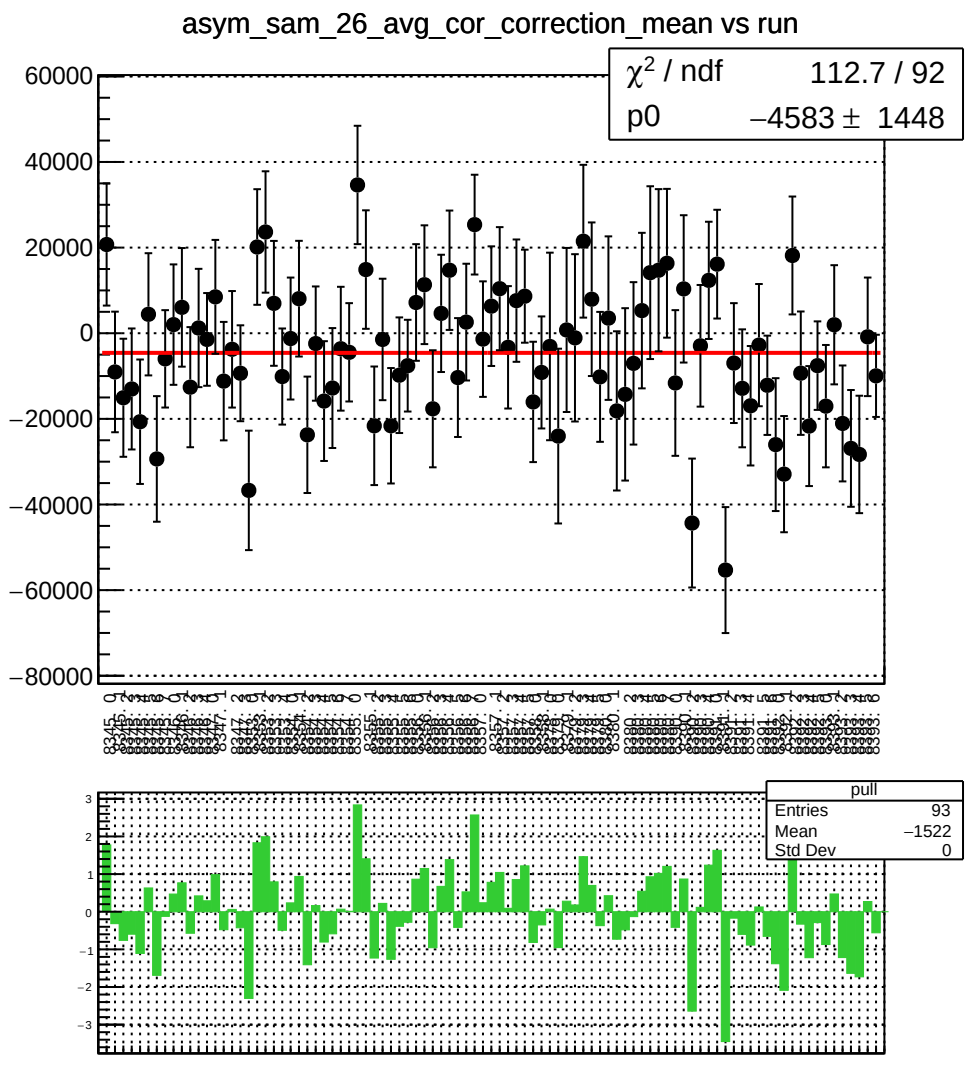

pull1D
Entries 93
Mean 0.003196
Std Dev 1.101

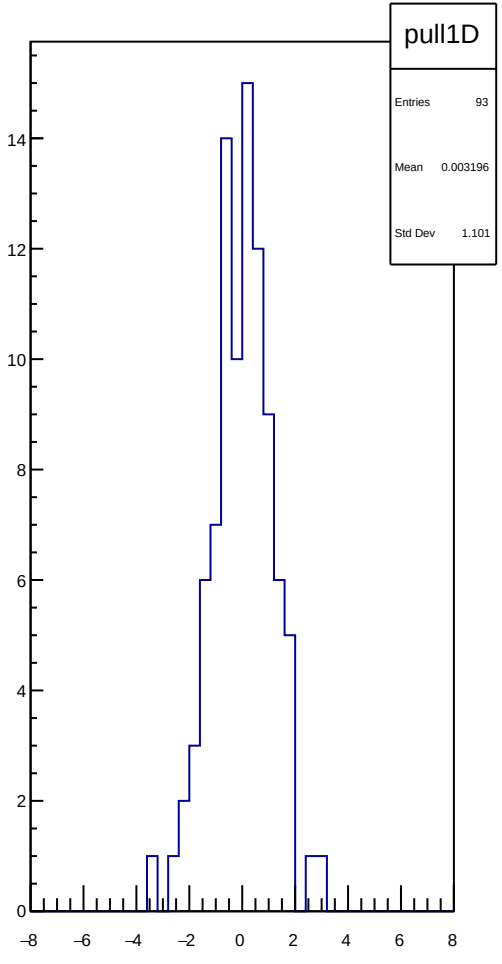

asym_sam_26_avg_reg_correction_rms vs run
χ² / ndf 1.969e+04 / 92
p0 1374 ± 1.024
2000
1900
1800
1700
1600
1500
1400
1300
1200

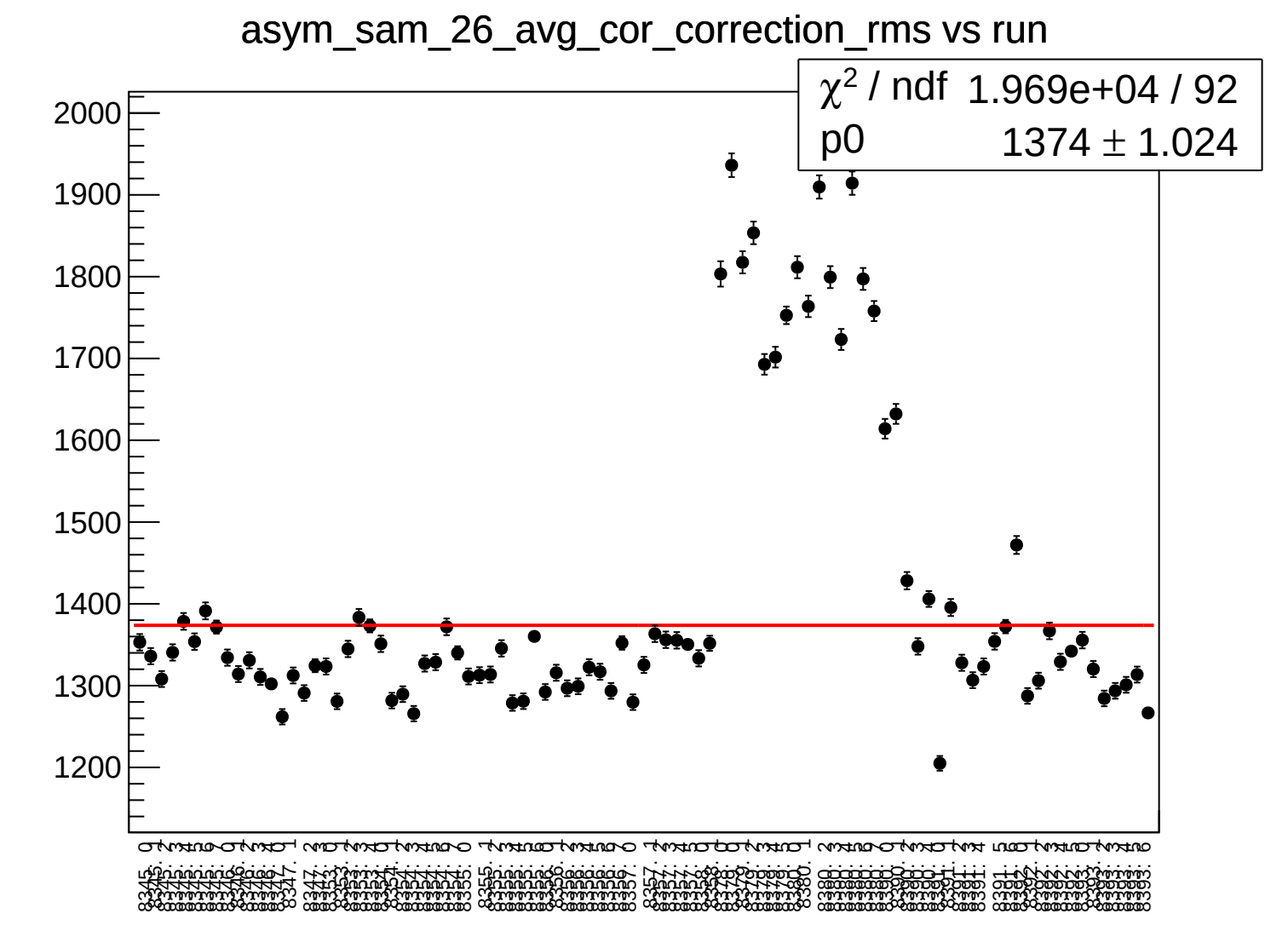

cor_asym_sam_26_avg_mean vs run
χ² / ndf 79.09 / 92
p0 4.832 ± 130.4
4000
2000
0
−2000
−4000
pull
Entries 93
Mean −58.09
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

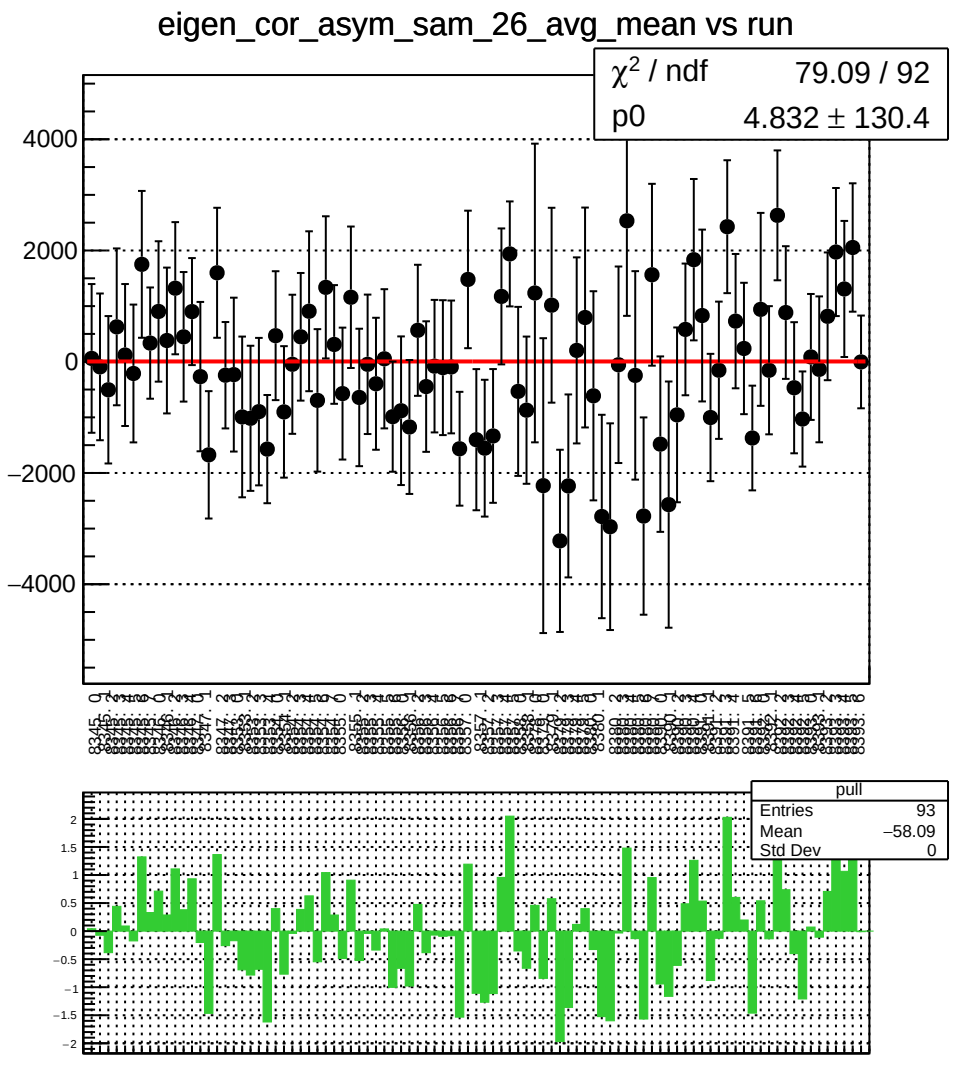

pull1D
Entries 93
Mean −0.01765
Std Dev 0.922
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

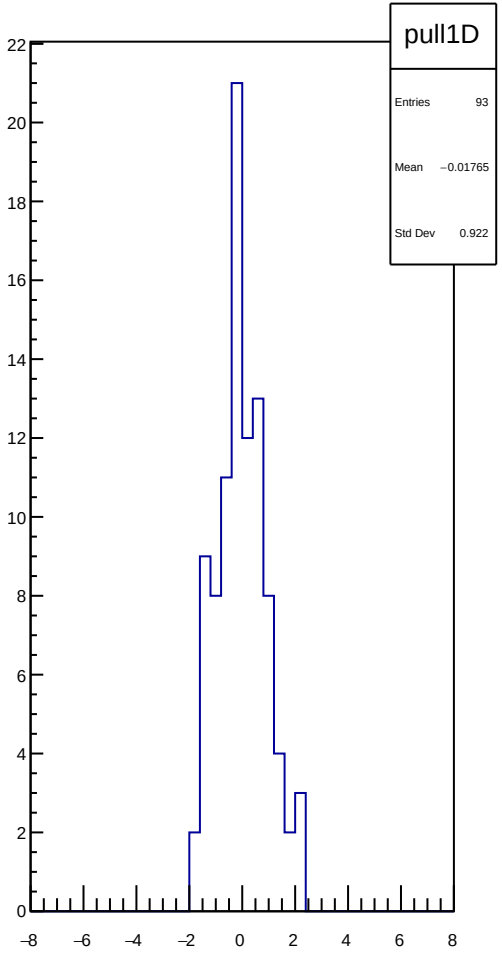

cor_asym_sam_26_avg_rms vs run
χ² / ndf 4.402e+04 / 92
p0 122.8 ± 0.0922
260
240
220
200
180
160
140
120
100

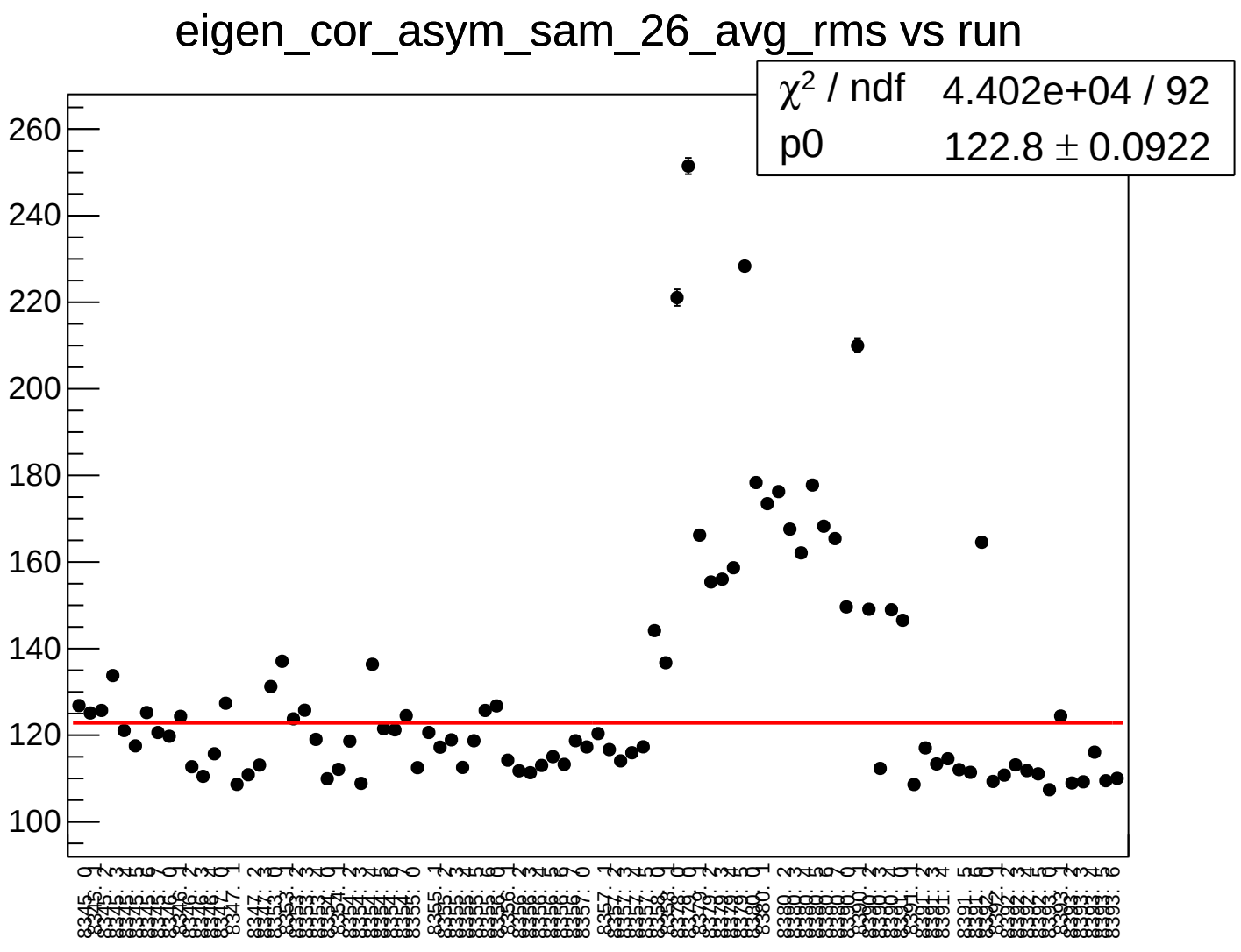

asym_sam_26_avg_cor_correction_mean vs run
χ² / ndf 112.7 / 92
p0 −4583 ± 1448
pull
Entries 93
Mean −1522
Std Dev 0

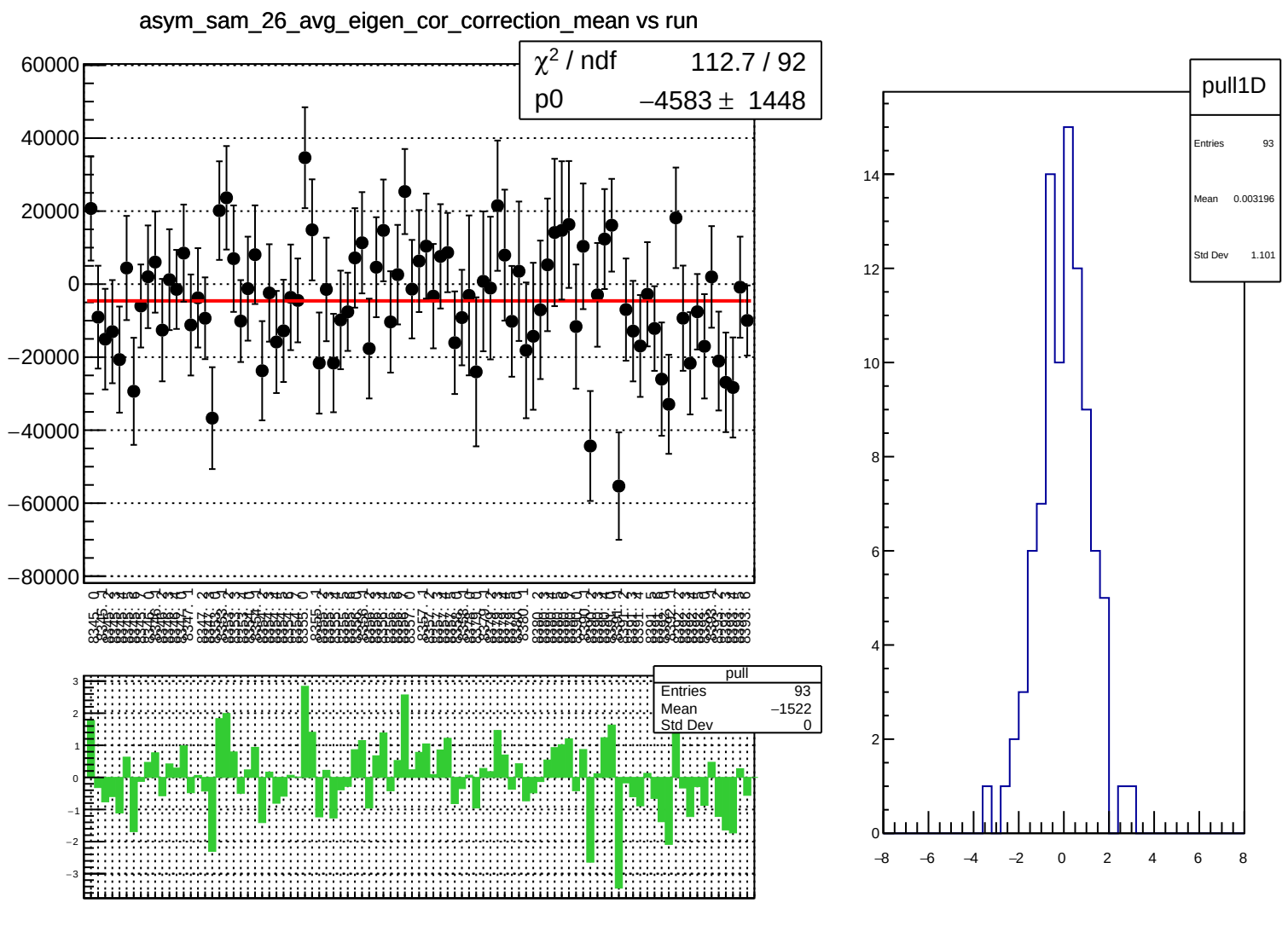

pull1D
Entries 93
Mean 0.003196
Std Dev 1.101

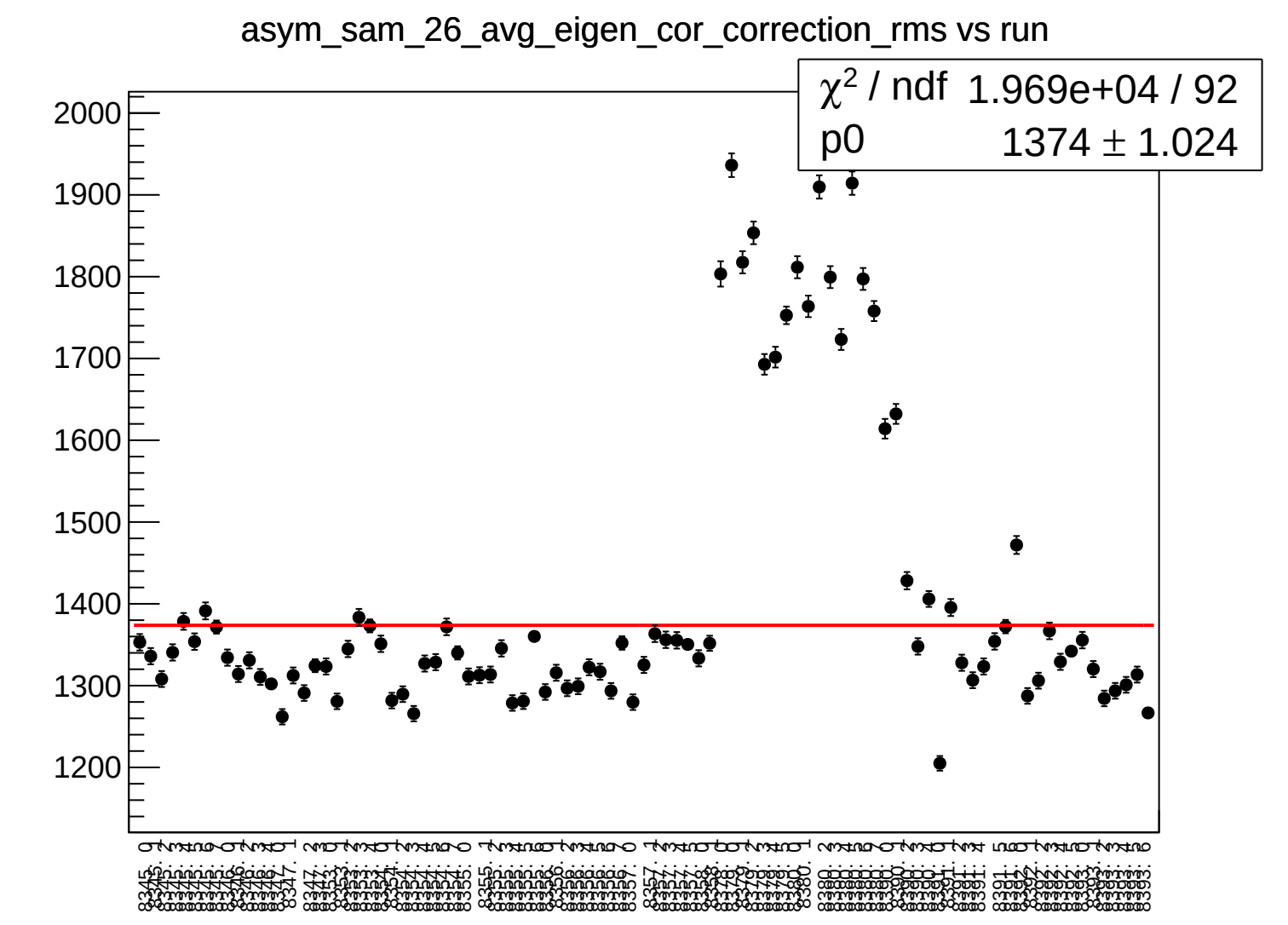

asym_sam_26_avg_cor_correction_rms vs run
χ² / ndf 1.969e+04 / 92
p0 1374 ± 1.024
2000
1900
1800
1700
1600
1500
1400
1300
1200

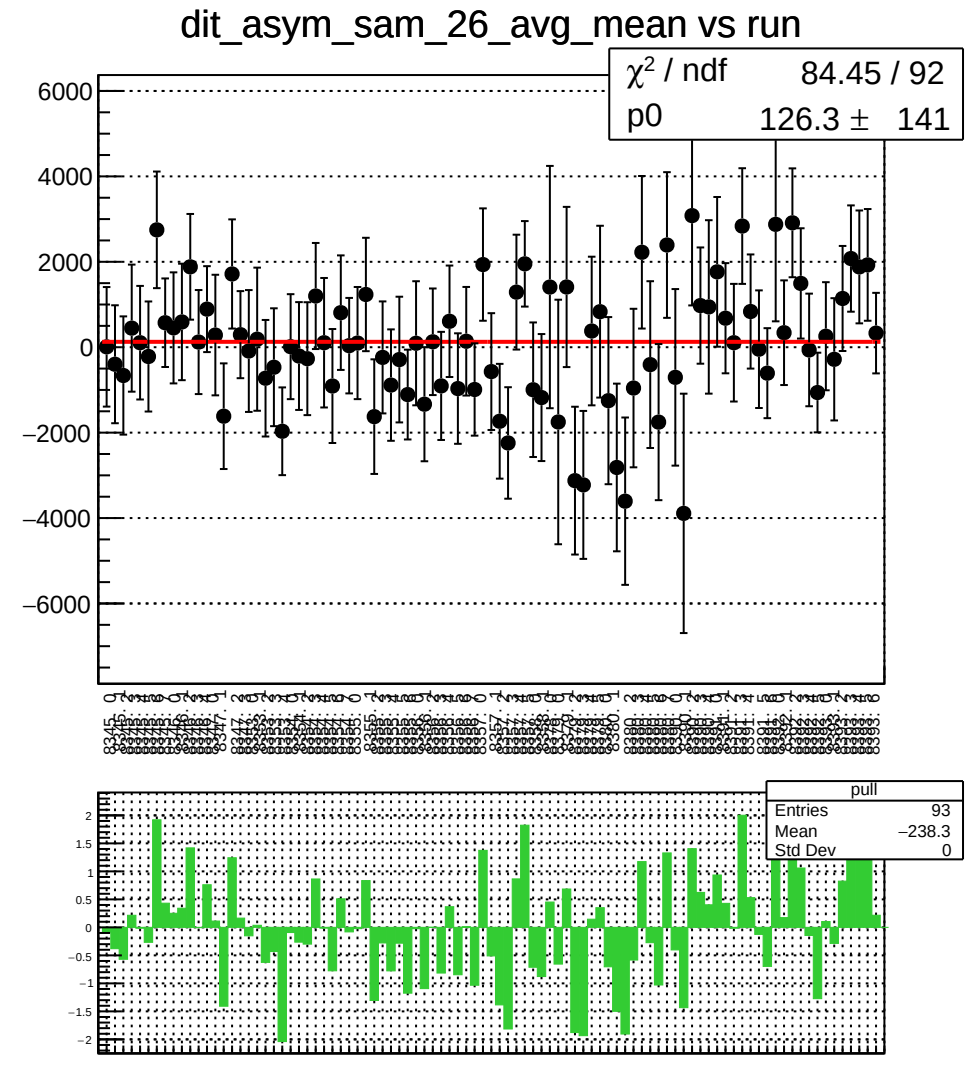

eigen_cor_asym_sam_26_avg_mean vs run
χ² / ndf 79.09 / 92
p0 4.832 ± 130.4
4000
2000
0
−2000
−4000
pull
Entries 93
Mean −58.09
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

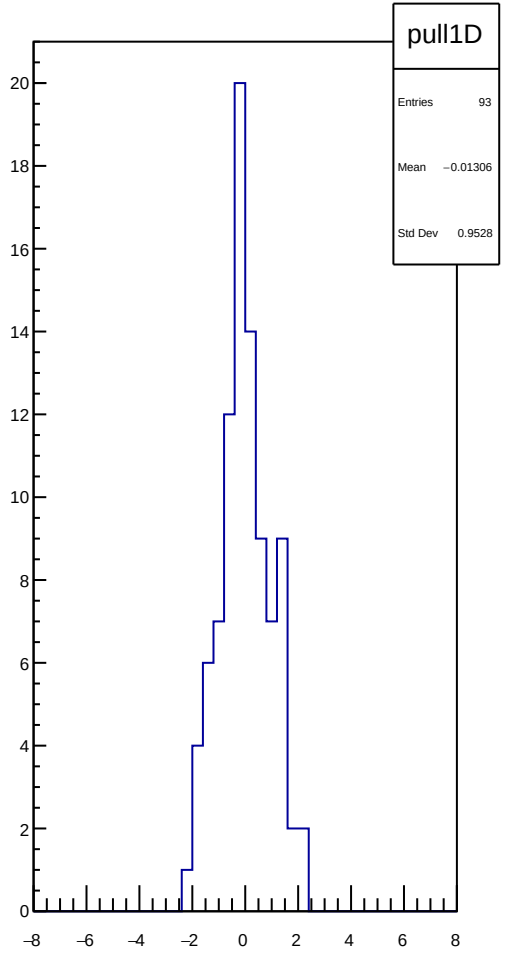

pull1D
Entries 93
Mean −0.01765
Std Dev 0.922
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

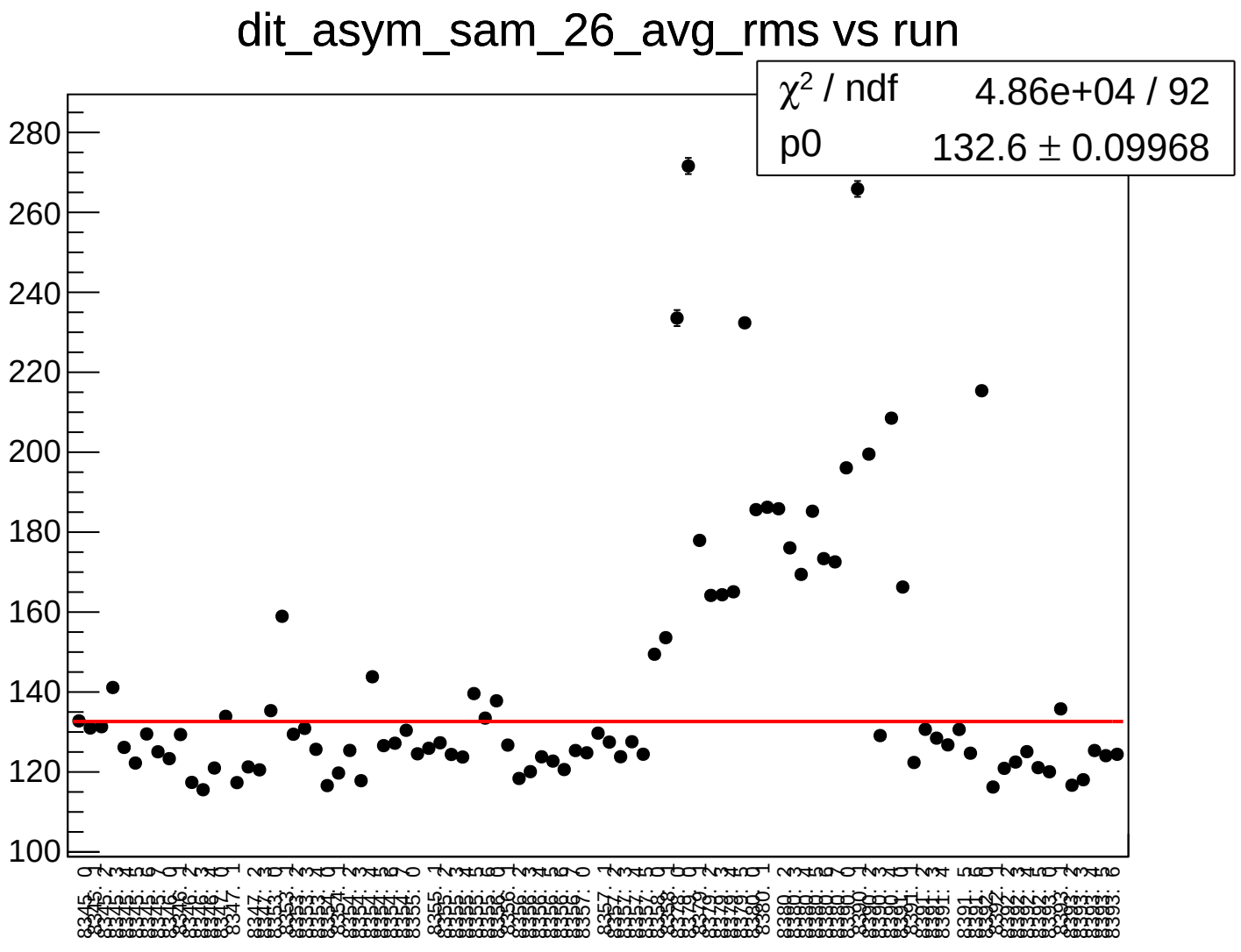

eigen_cor_asym_sam_26_avg_rms vs run
χ² / ndf 4.402e+04 / 92
p0 122.8 ± 0.0922
260
240
220
200
180
160
140
120
100

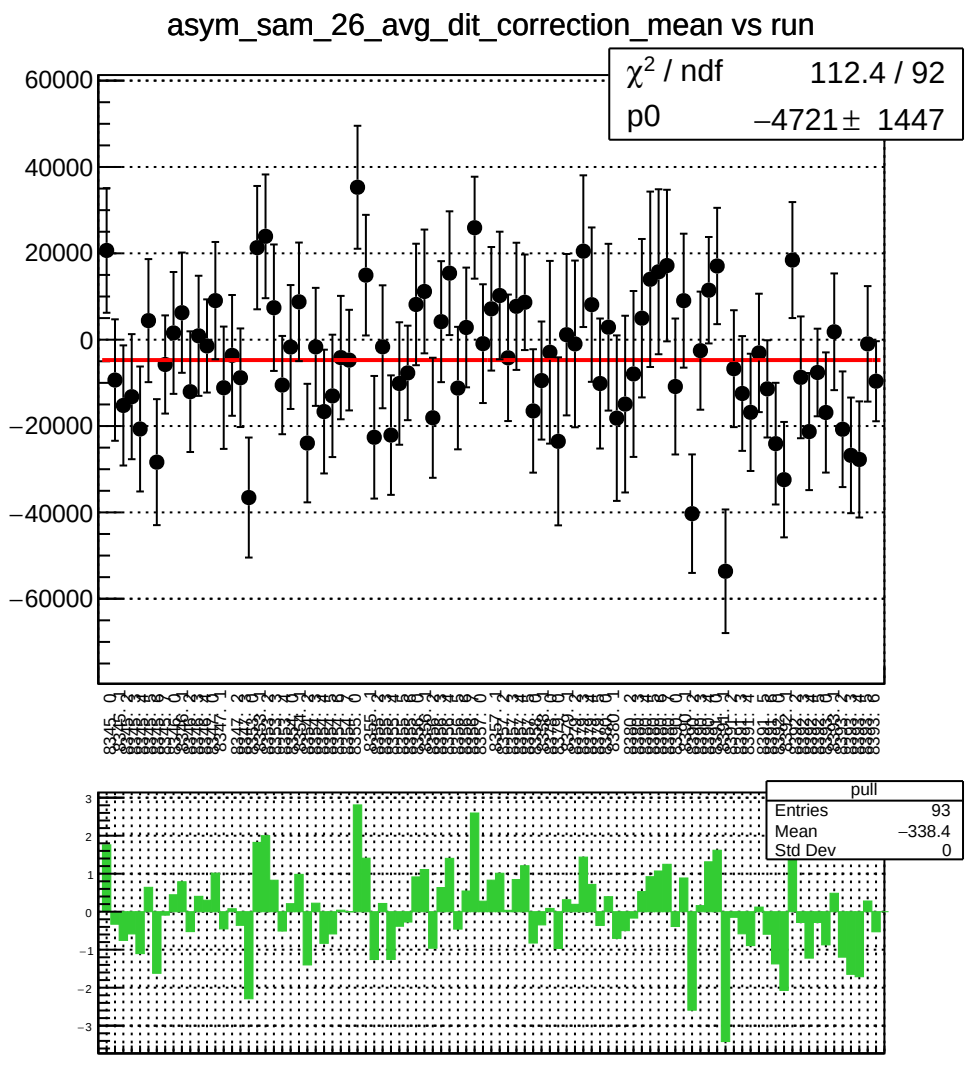

asym_sam_26_avg_eigen_cor_correction_mean vs run
χ² / ndf 112.7 / 92
p0 −4583 ± 1448
pull
Entries 93
Mean −1522
Std Dev 0
pull1D
Entries 93
Mean 0.003196
Std Dev 1.101

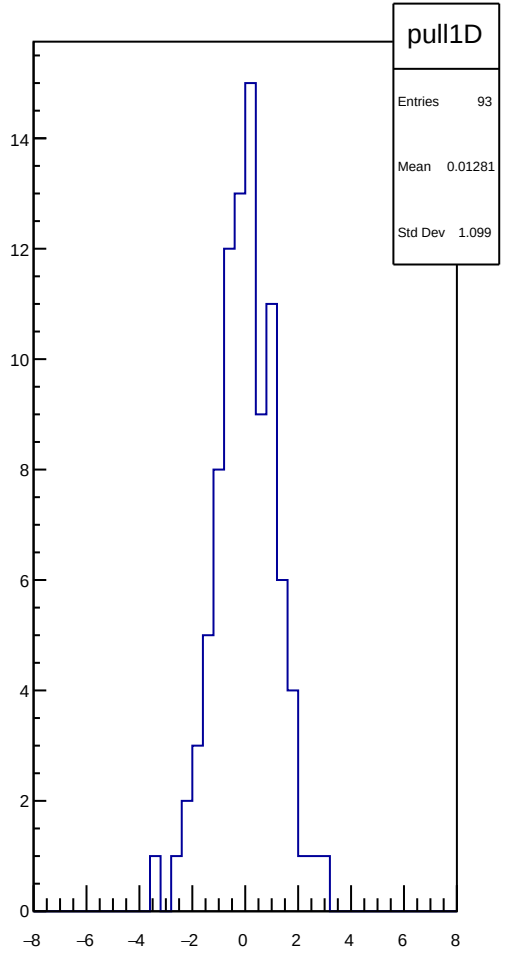

asym_sam_26_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.969e+04 / 92
p0 1374 ± 1.024
2000
1900
1800
1700
1600
1500
1400
1300
1200

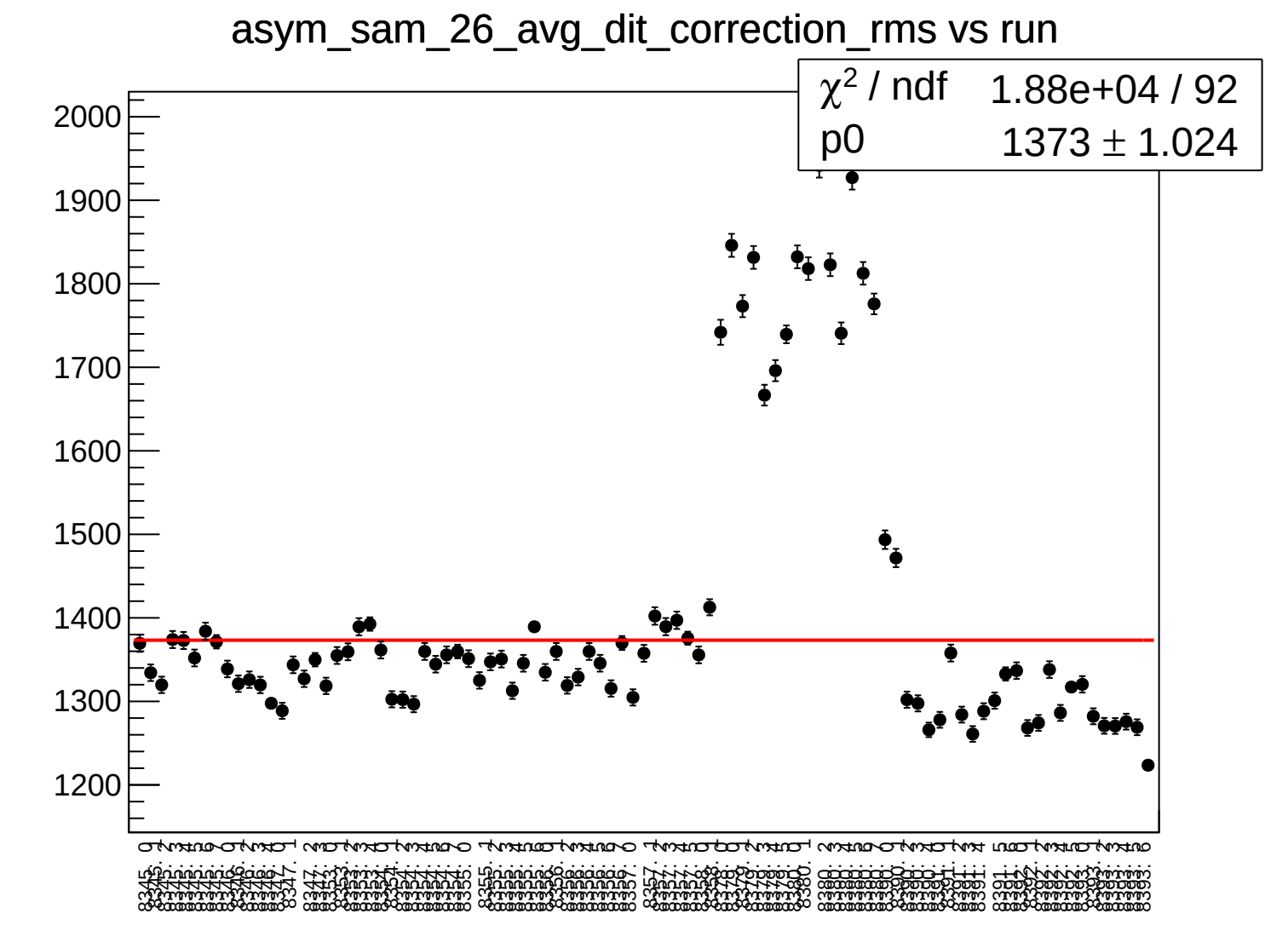

dit_asym_sam_26_avg_mean vs run
χ² / ndf 84.45 / 92
p0 126.3 ± 141
pull
Entries 93
Mean −238.3
Std Dev 0

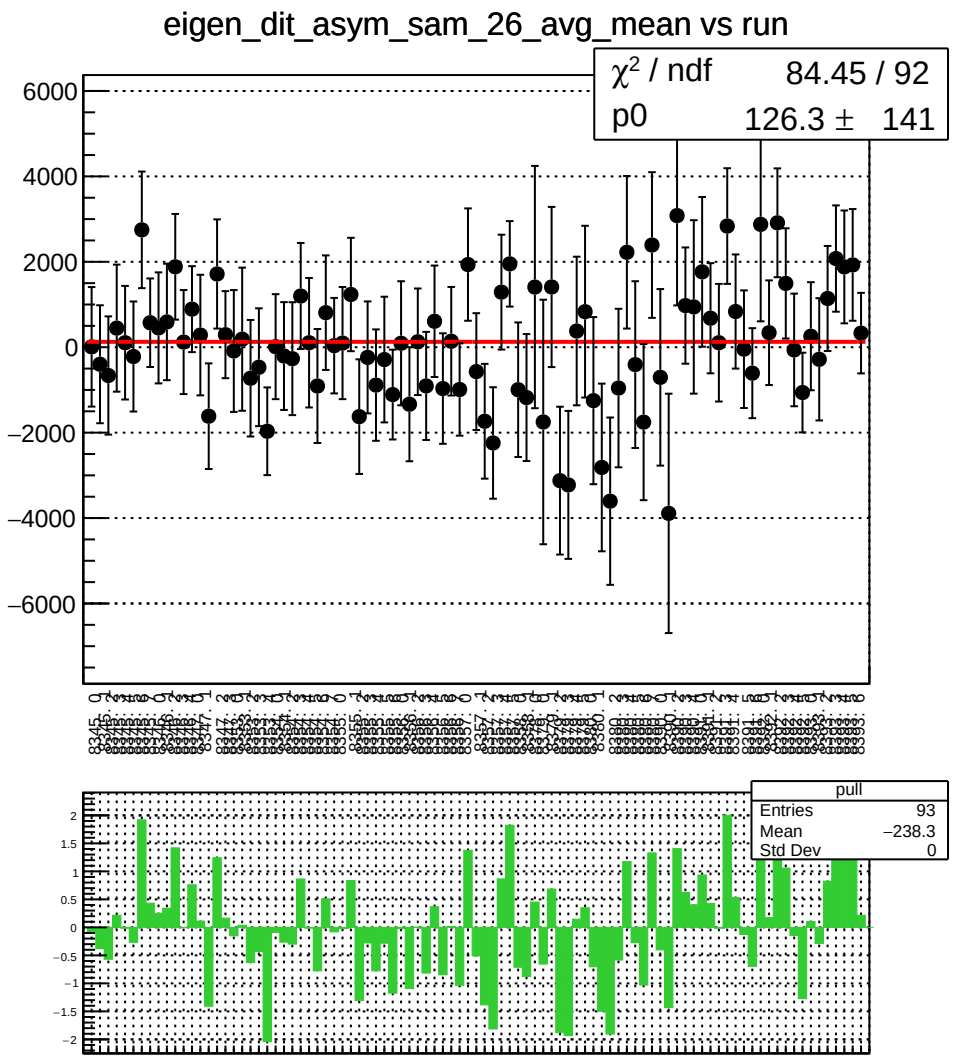

pull1D
Entries 93
Mean −0.01306
Std Dev 0.9528

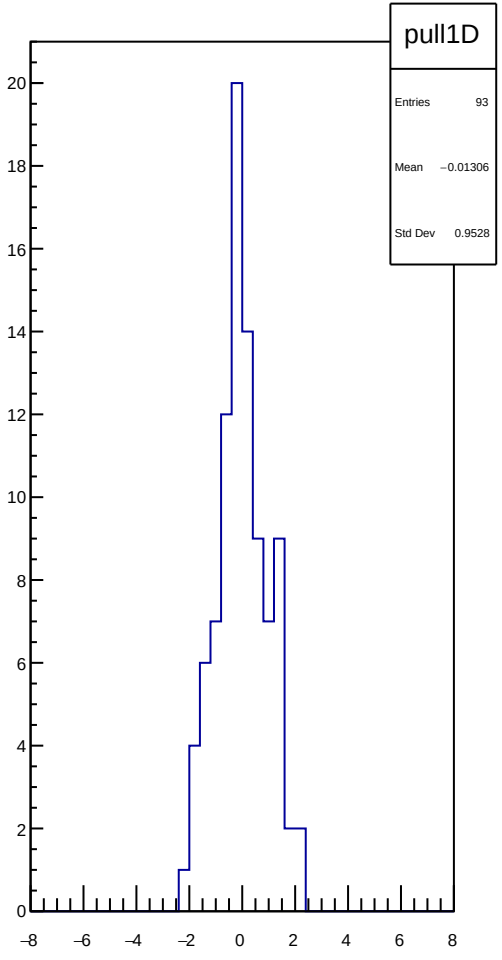

dit_asym_sam_26_avg_rms vs run
χ^2 / ndf 4.86e+04 / 92
p0 132.6 ± 0.09968
280
260
240
220
200
180
160
140
120
100

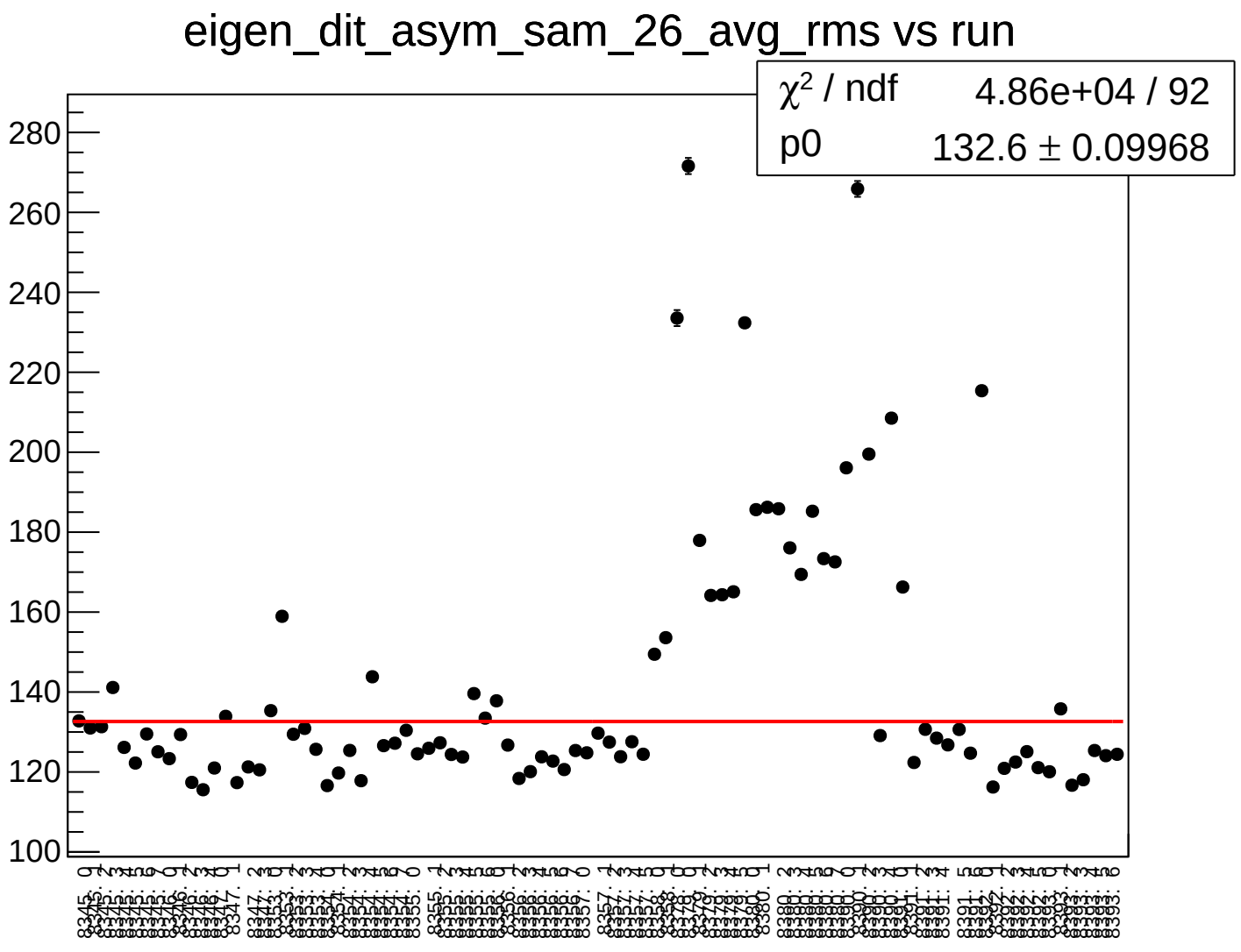

asym_sam_26_avg_dit_correction_mean vs run
χ² / ndf 112.4 / 92
p0 −4721 ± 1447
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −338.4
Std Dev 0
3
2
1
0
−1
−2
−3

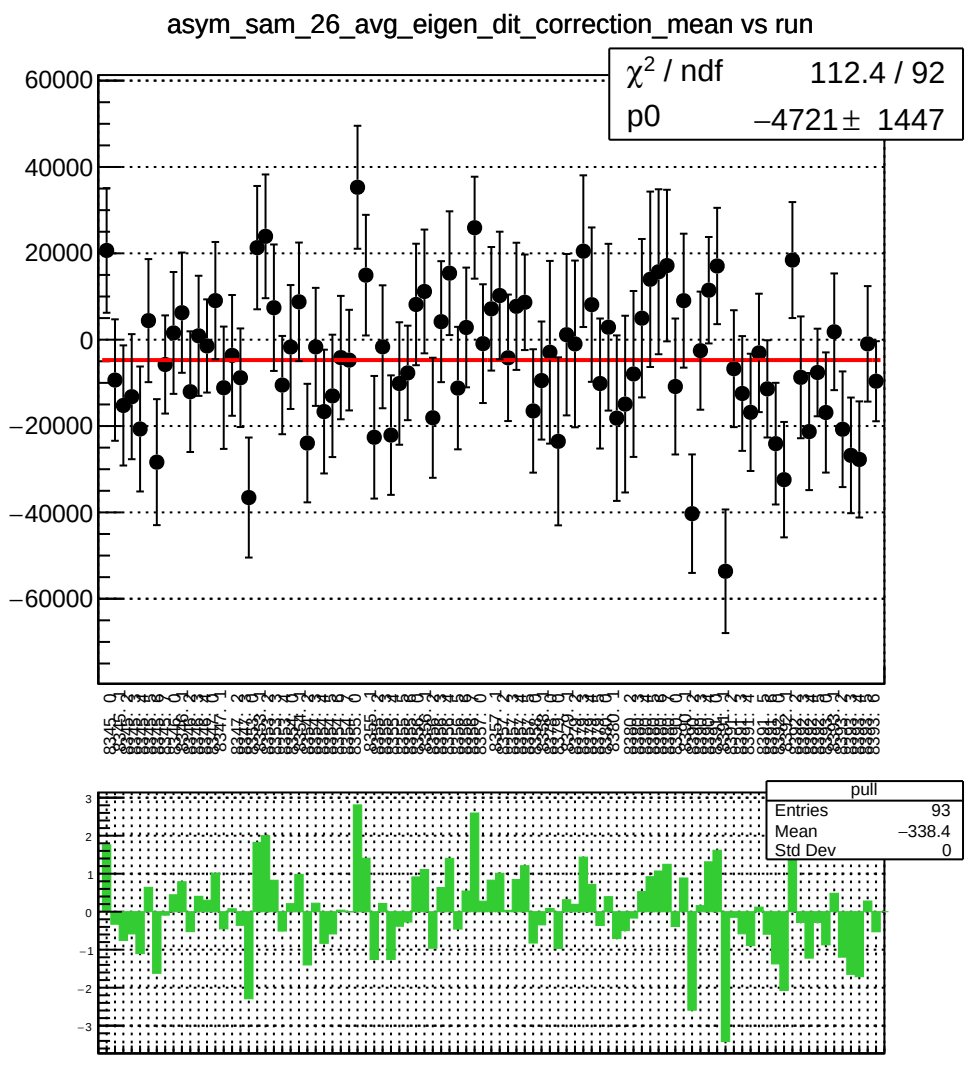

pull1D
Entries 93
Mean 0.01281
Std Dev 1.099
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

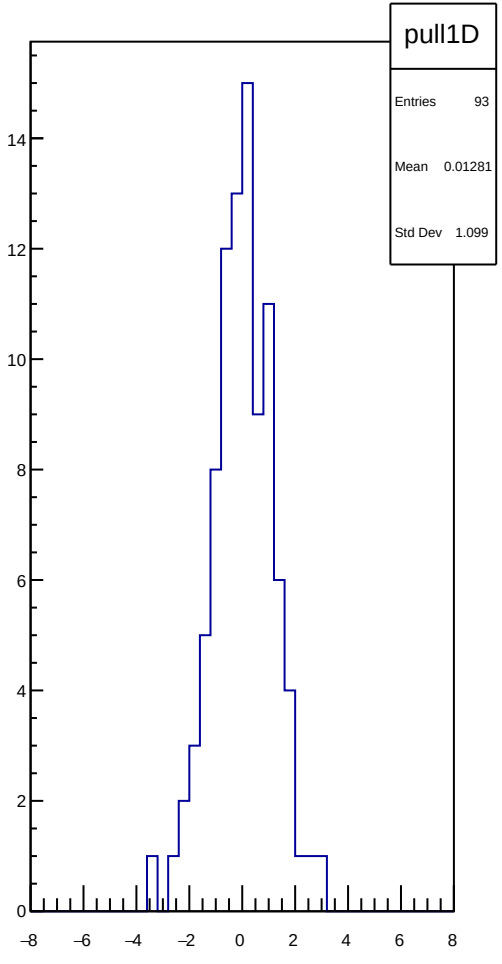

asym_sam_26_avg_dit_correction_rms vs run
χ² / ndf 1.88e+04 / 92
p0 1373 ± 1.024
2000
1900
1800
1700
1600
1500
1400
1300
1200

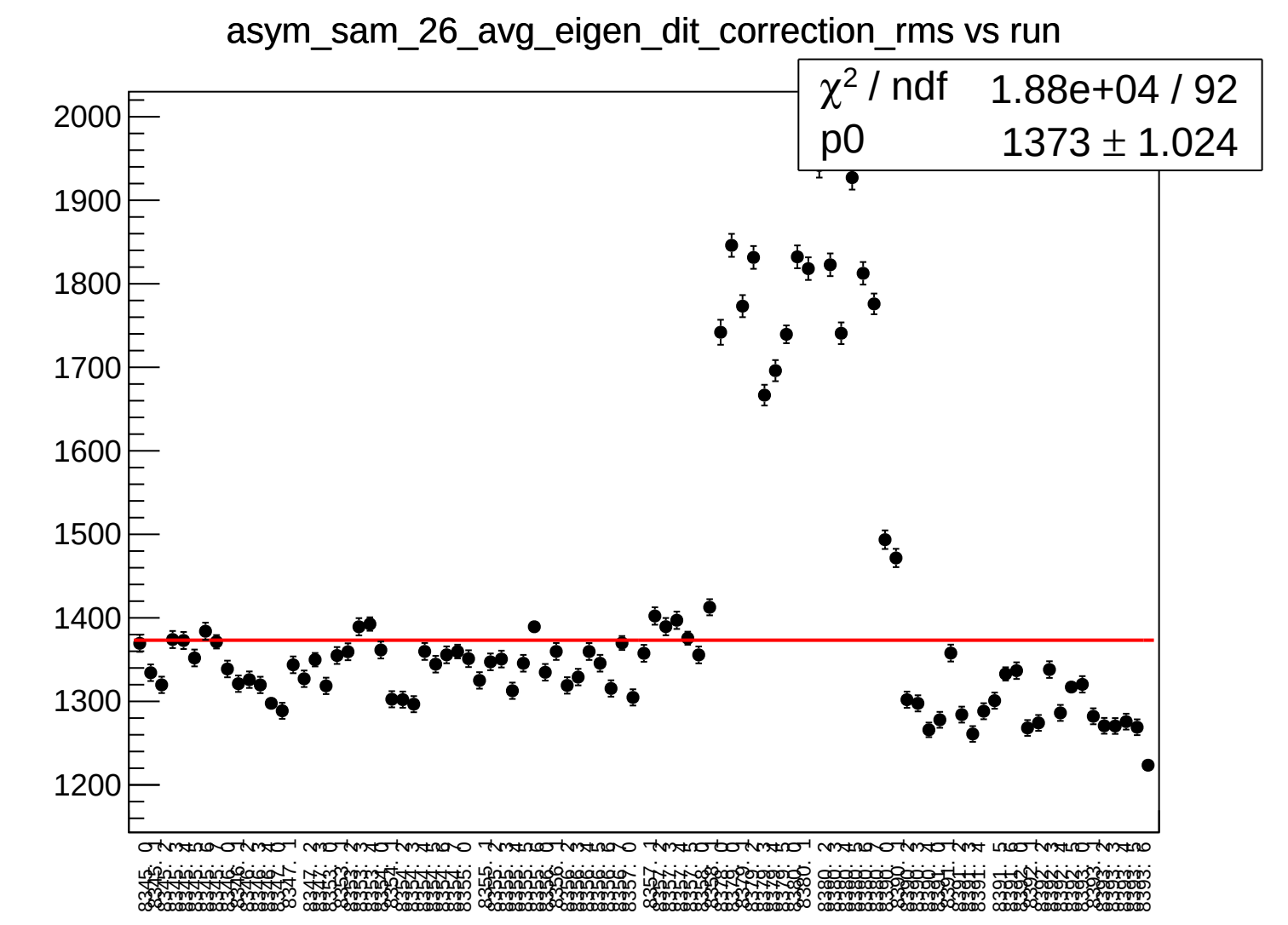

eigen_dit_asym_sam_26_avg_mean vs run
χ² / ndf 84.45 / 92
p0 126.3 ± 141
pull
Entries 93
Mean −238.3
Std Dev 0

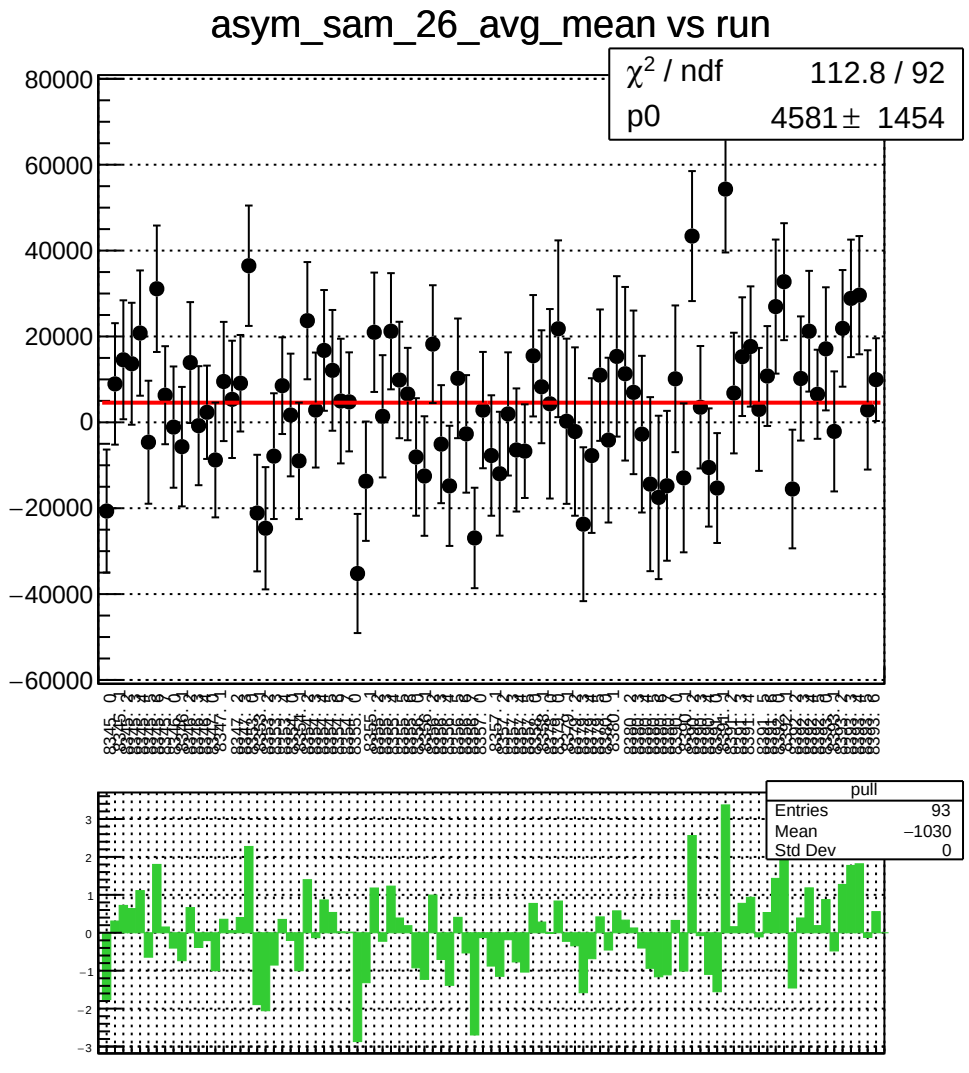

pull1D
Entries 93
Mean −0.01306
Std Dev 0.9528

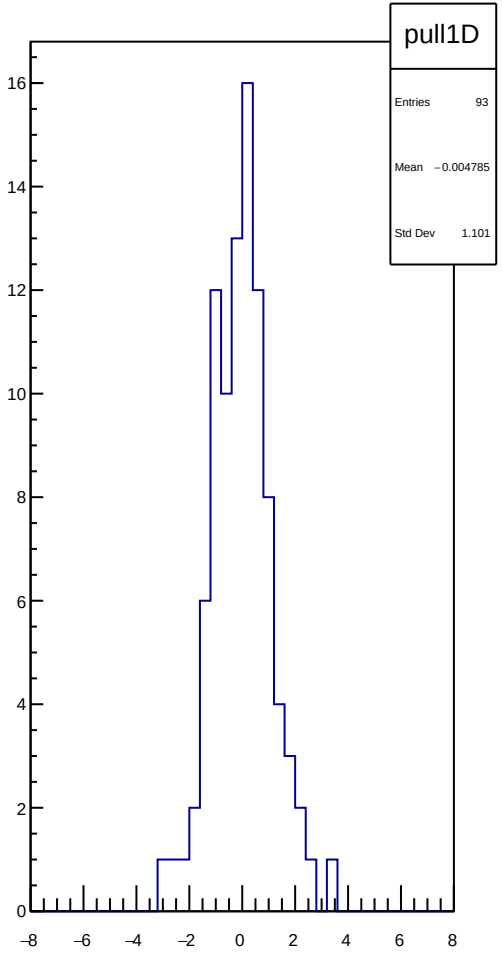

eigen_dit_asym_sam_26_avg_rms vs run
χ² / ndf 4.86e+04 / 92
p0 132.6 ± 0.09968
280
260
240
220
200
180
160
140
120
100

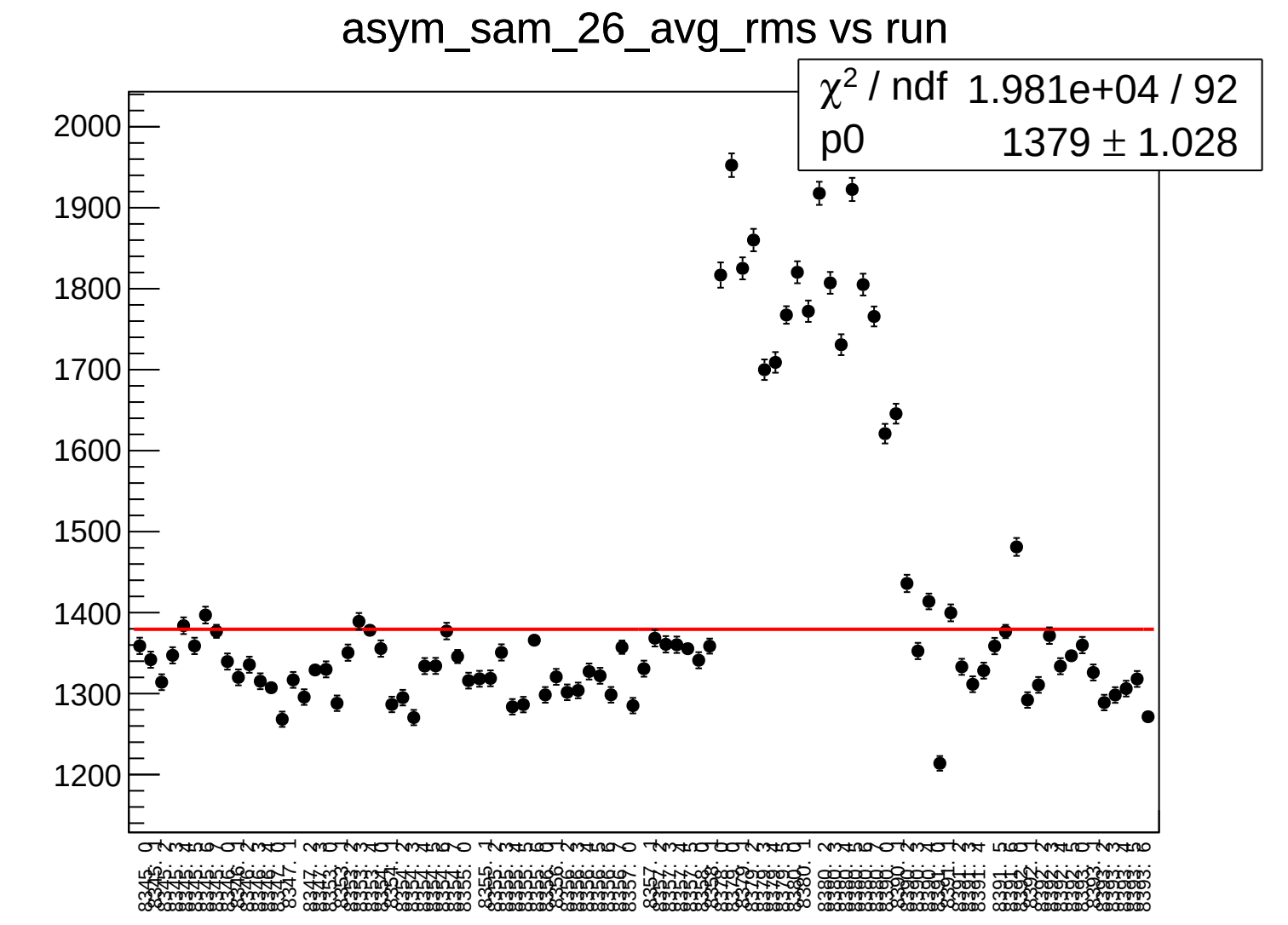

asym_sam_26_avg_eigen_dit_correction_mean vs run
χ² / ndf 112.4 / 92
p0 −4721 ± 1447
pull
Entries 93
Mean −338.4
Std Dev 0

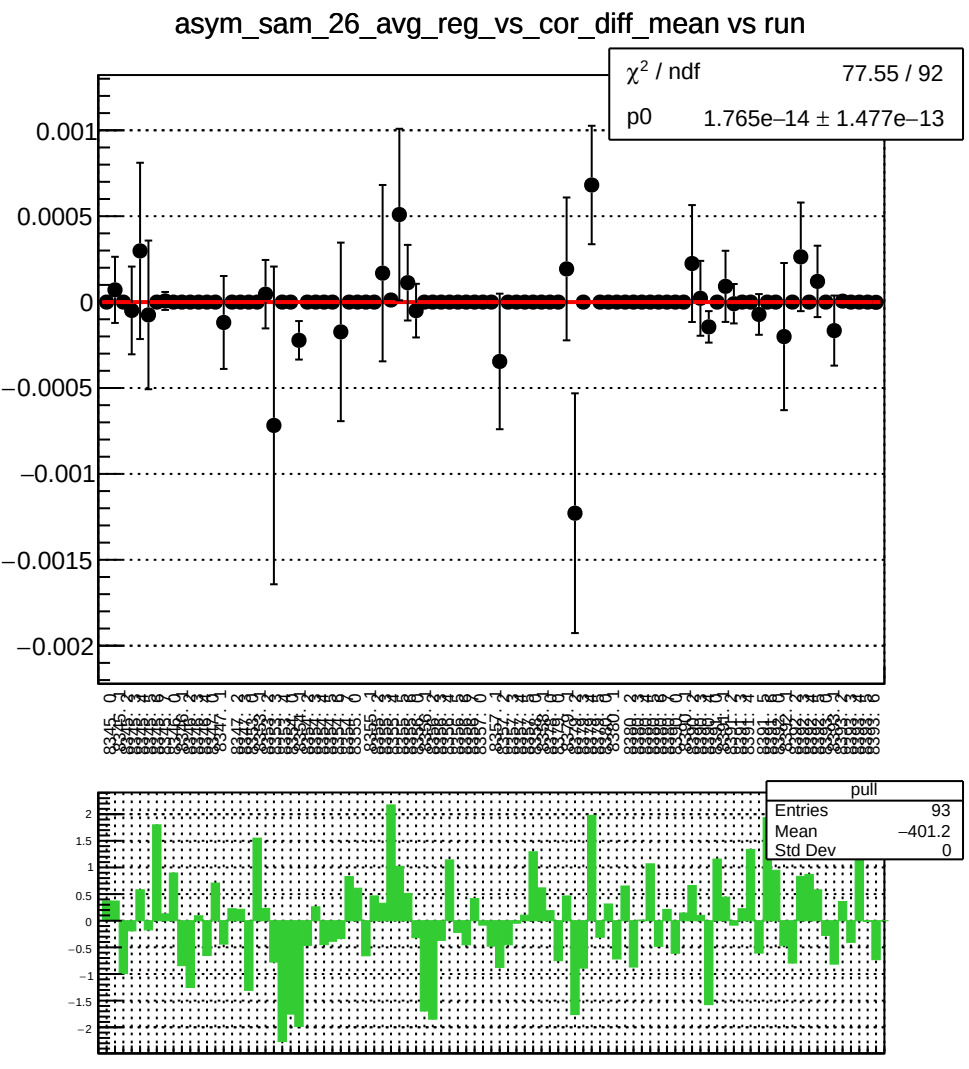

pull1D
Entries 93
Mean 0.01281
Std Dev 1.099

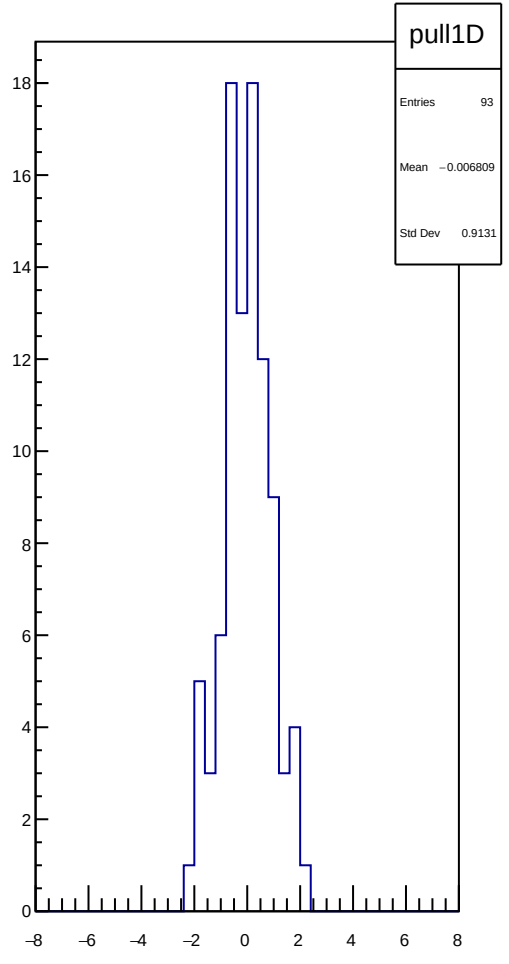

asym_sam_26_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.88e+04 / 92
p0 1373 ± 1.024
2000
1900
1800
1700
1600
1500
1400
1300
1200

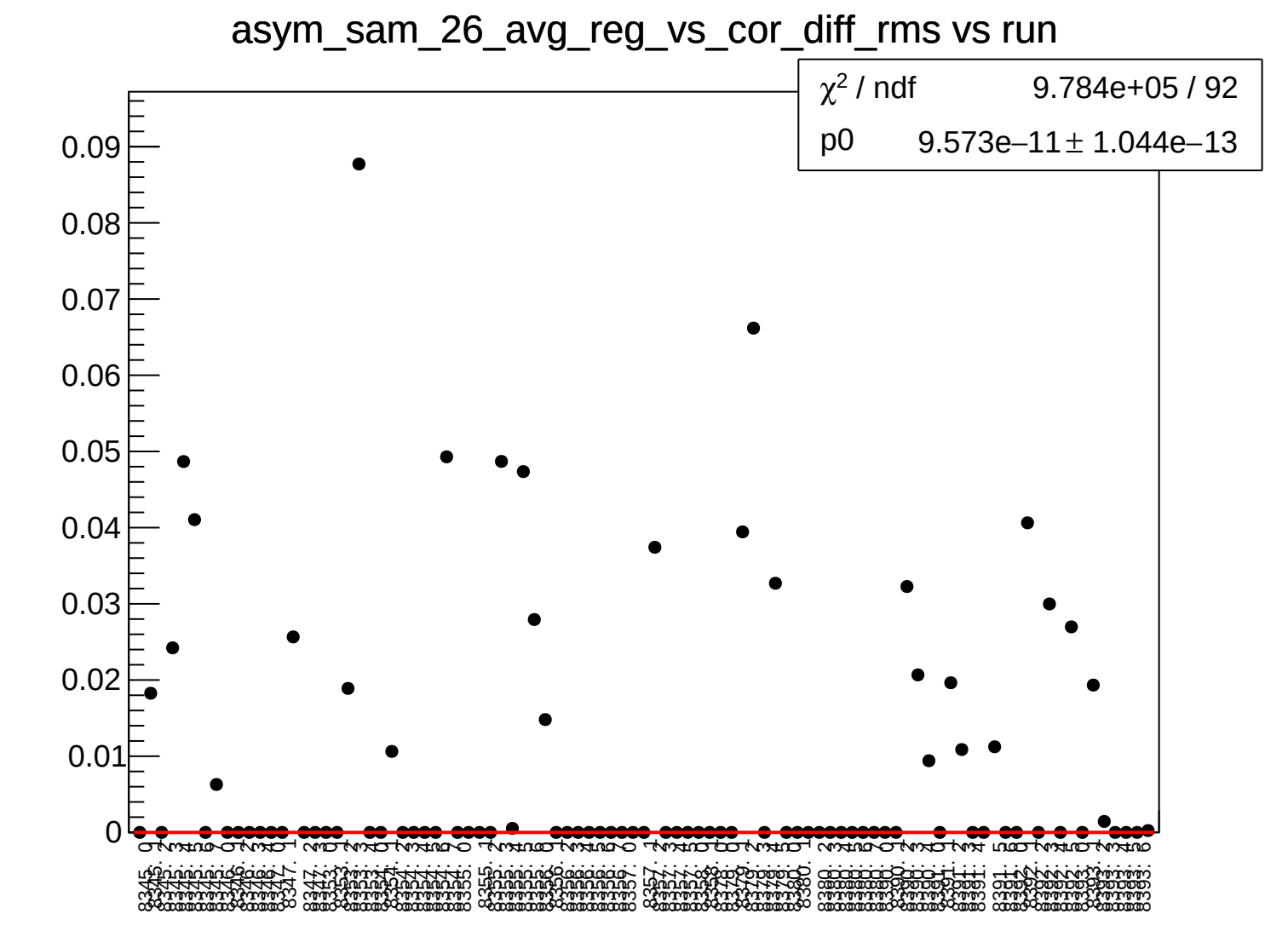

asym_sam_26_avg_mean vs run
χ² / ndf 112.8 / 92
p0 4581 ± 1454
pull
Entries 93
Mean −1030
Std Dev 0

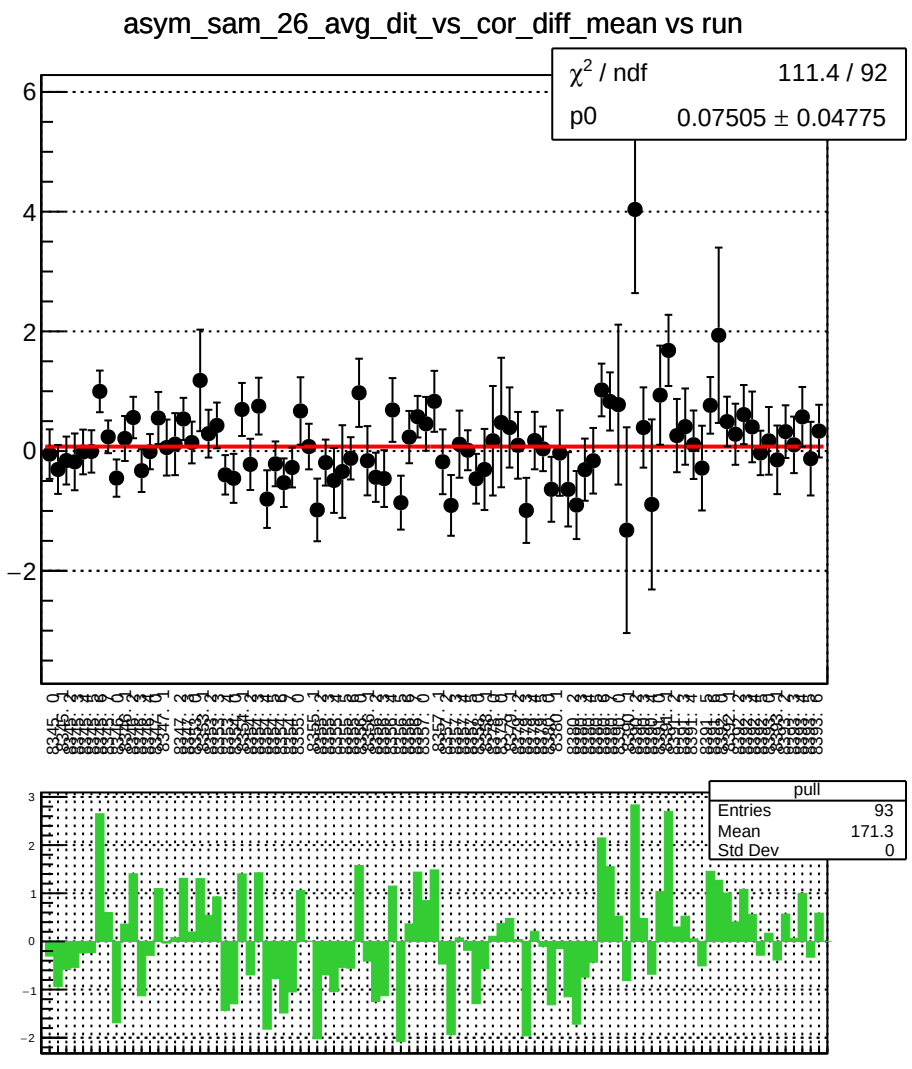

pull1D
Entries 93
Mean −0.004785
Std Dev 1.101

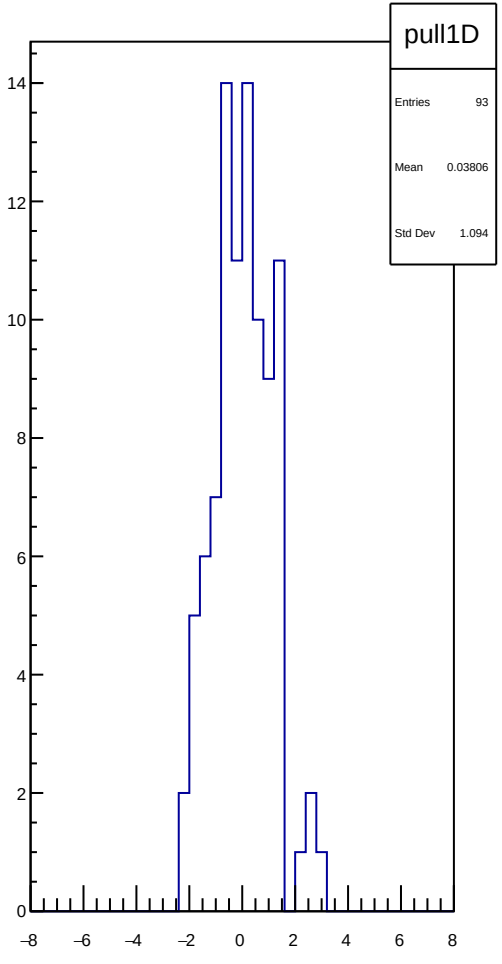

asym_sam_26_avg_rms vs run
χ² / ndf 1.981e+04 / 92
p0 1379 ± 1.028
2000
1900
1800
1700
1600
1500
1400
1300
1200

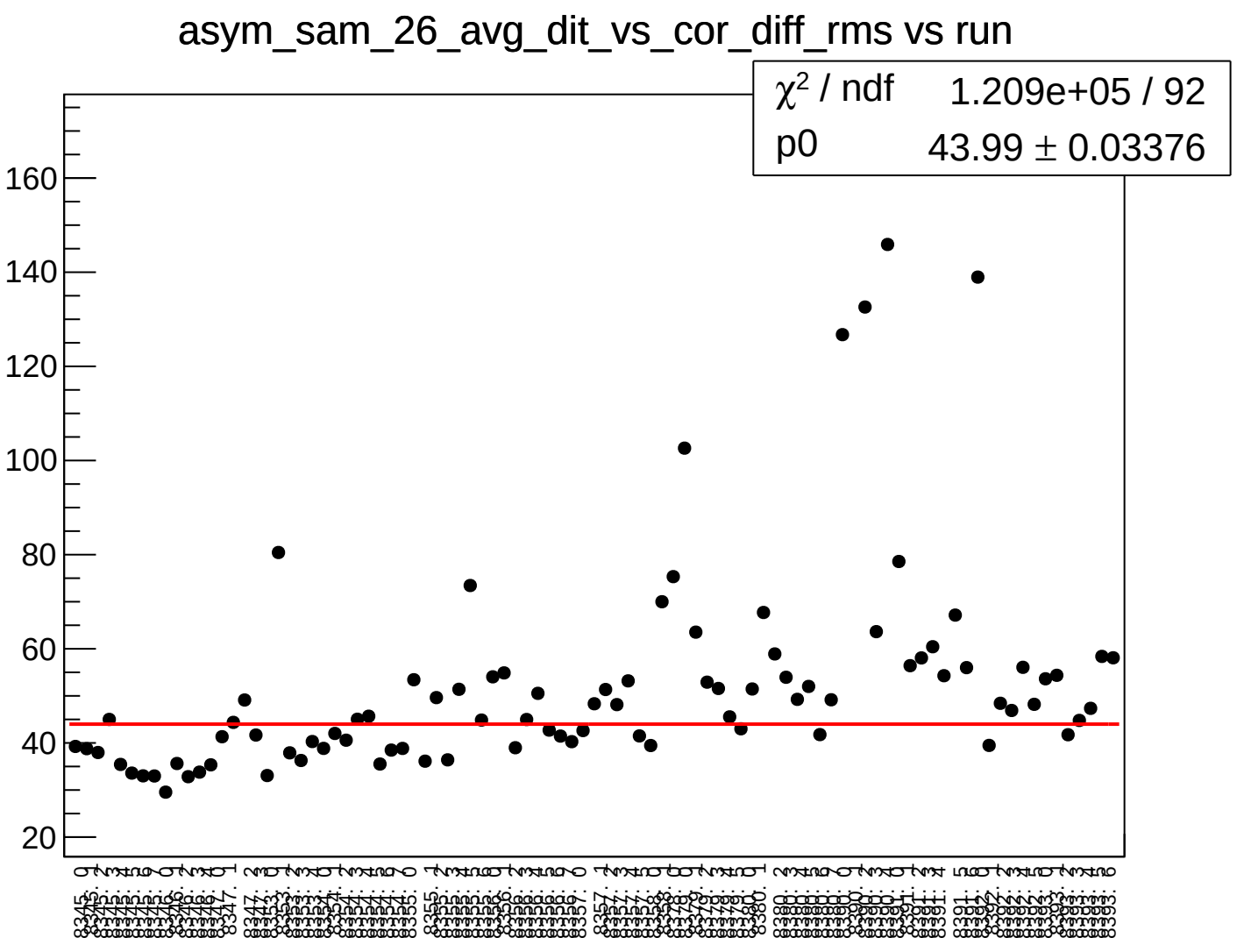

asym_sam_26_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 77.55 / 92
p0 1.765e−14 ± 1.477e−13
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 93
Mean −401.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

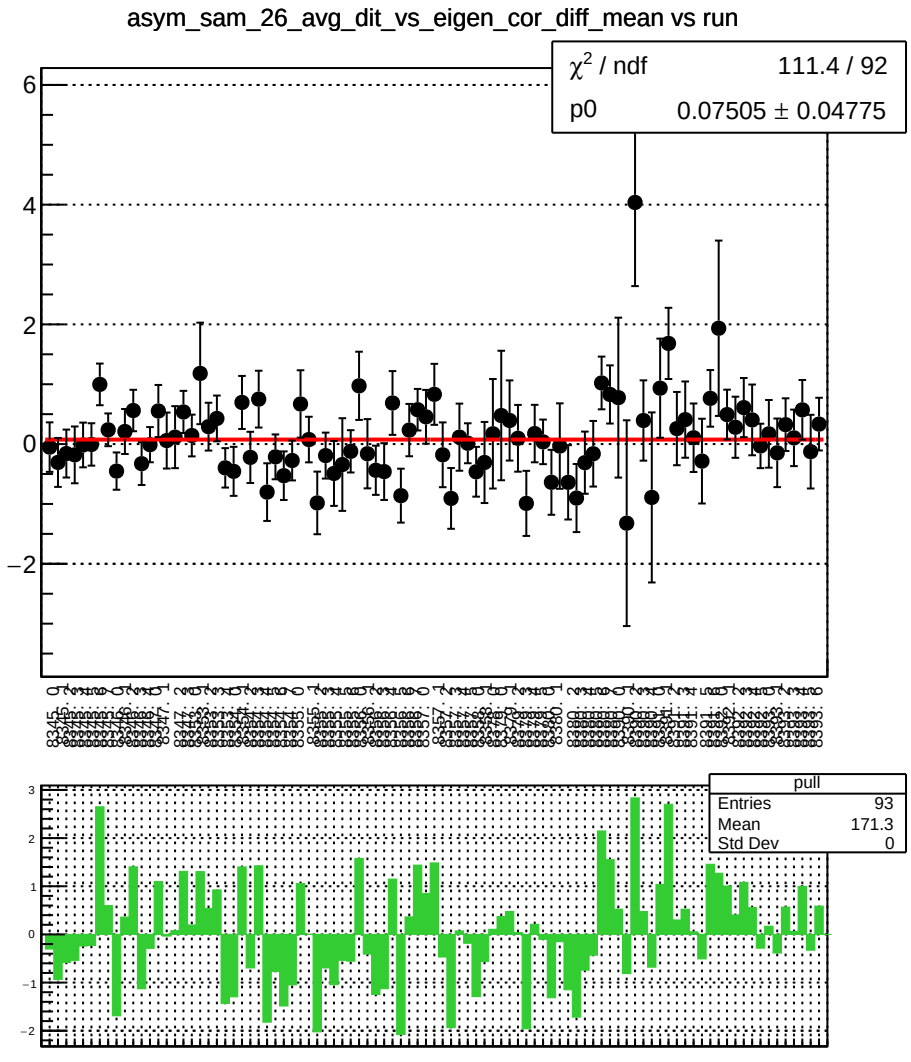

pull1D
Entries 93
Mean −0.006809
Std Dev 0.9131
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

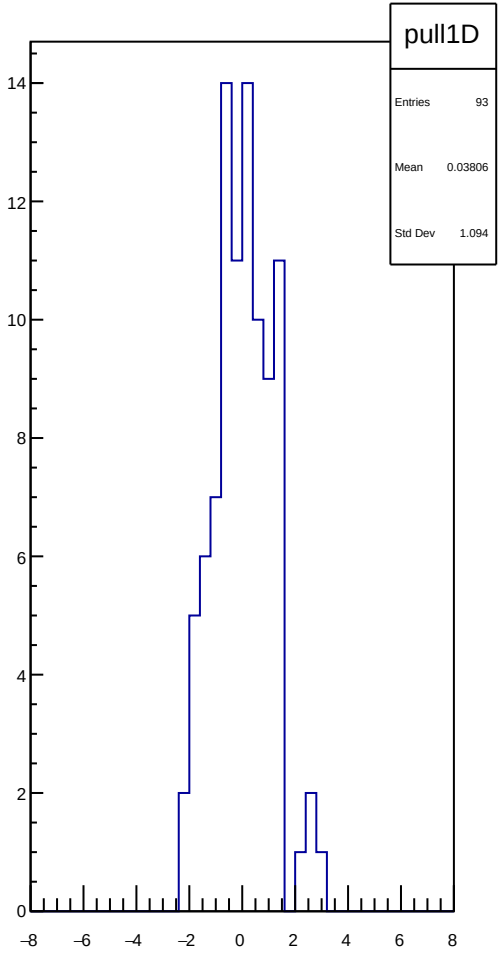

asym_sam_26_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.784e+05 / 92
p0 9.573e−11 ± 1.044e−13
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

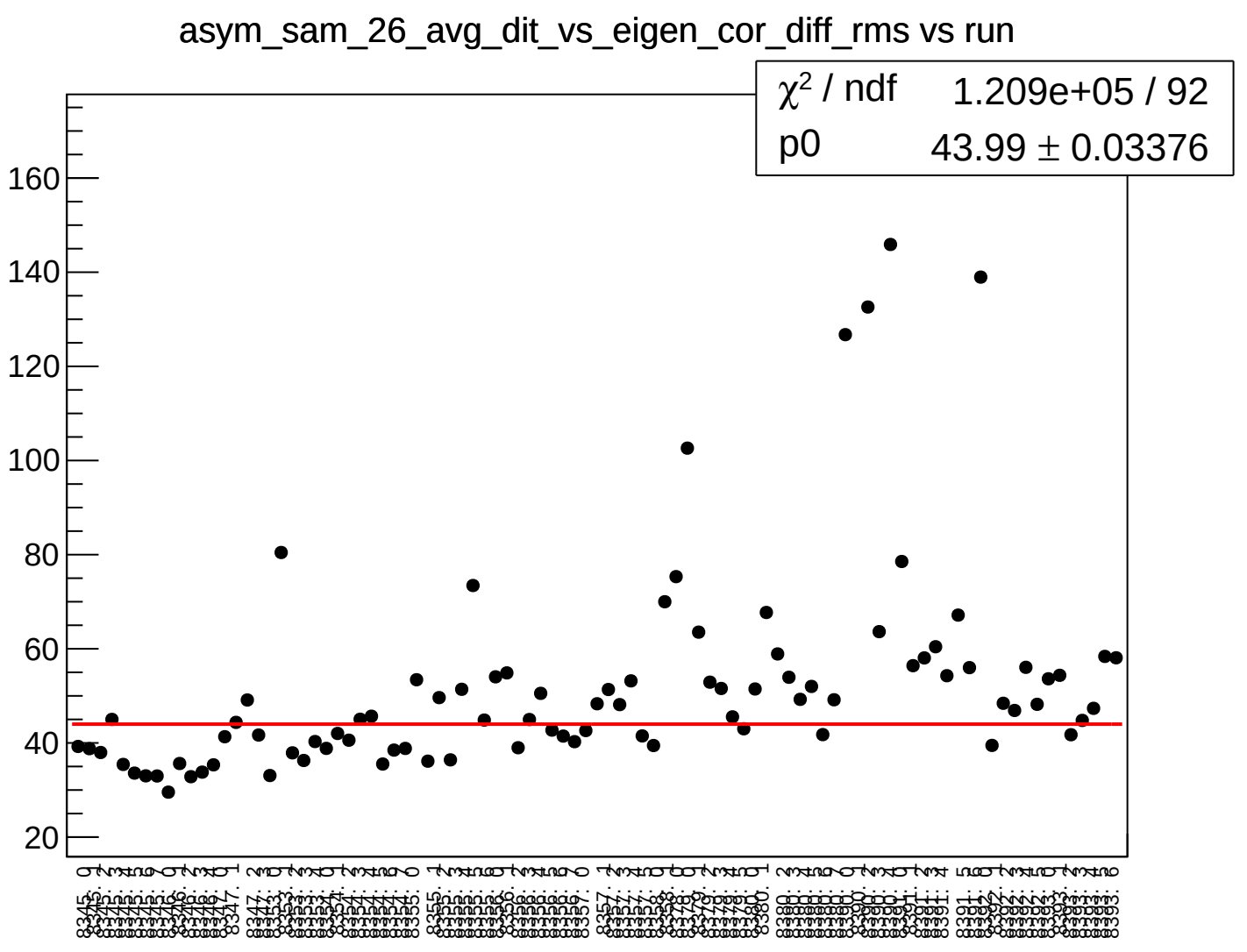

asym_sam_26_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 111.4 / 92
p0 0.07505 ± 0.04775
pull
Entries 93
Mean 171.3
Std Dev 0

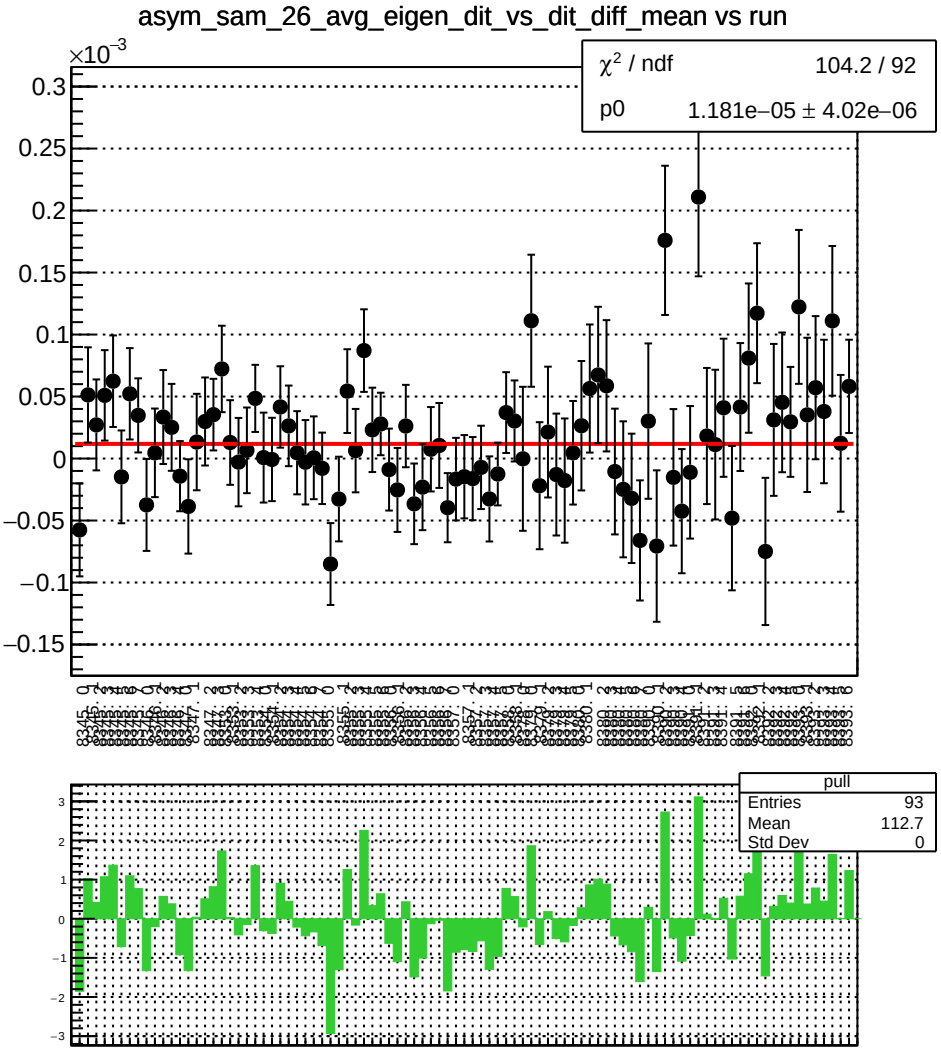

pull1D
Entries 93
Mean 0.03806
Std Dev 1.094

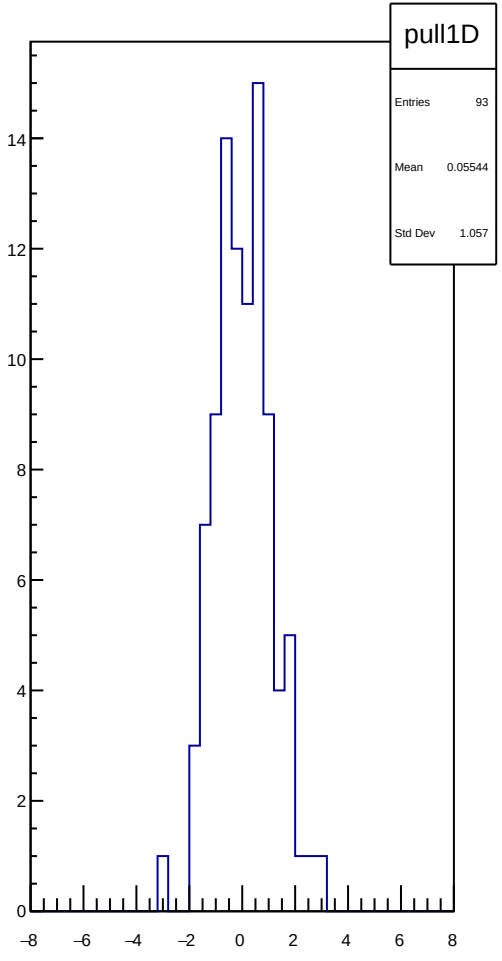

asym_sam_26_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.209e+05 / 92
p0 43.99 ± 0.03376
160
140
120
100
80
60
40
20

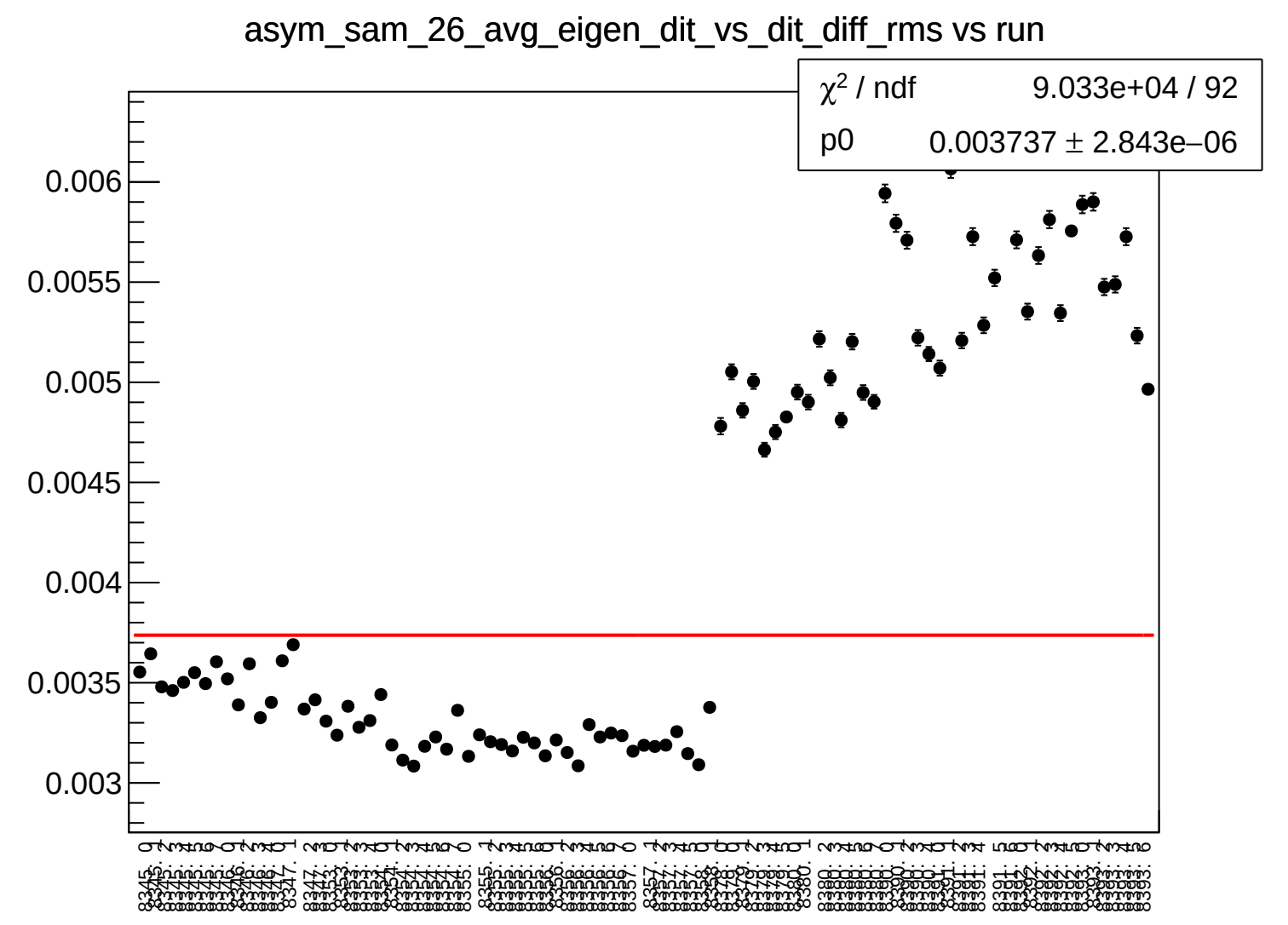

asym_sam_26_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 111.4 / 92
p0 0.07505 ± 0.04775
pull
Entries 93
Mean 171.3
Std Dev 0

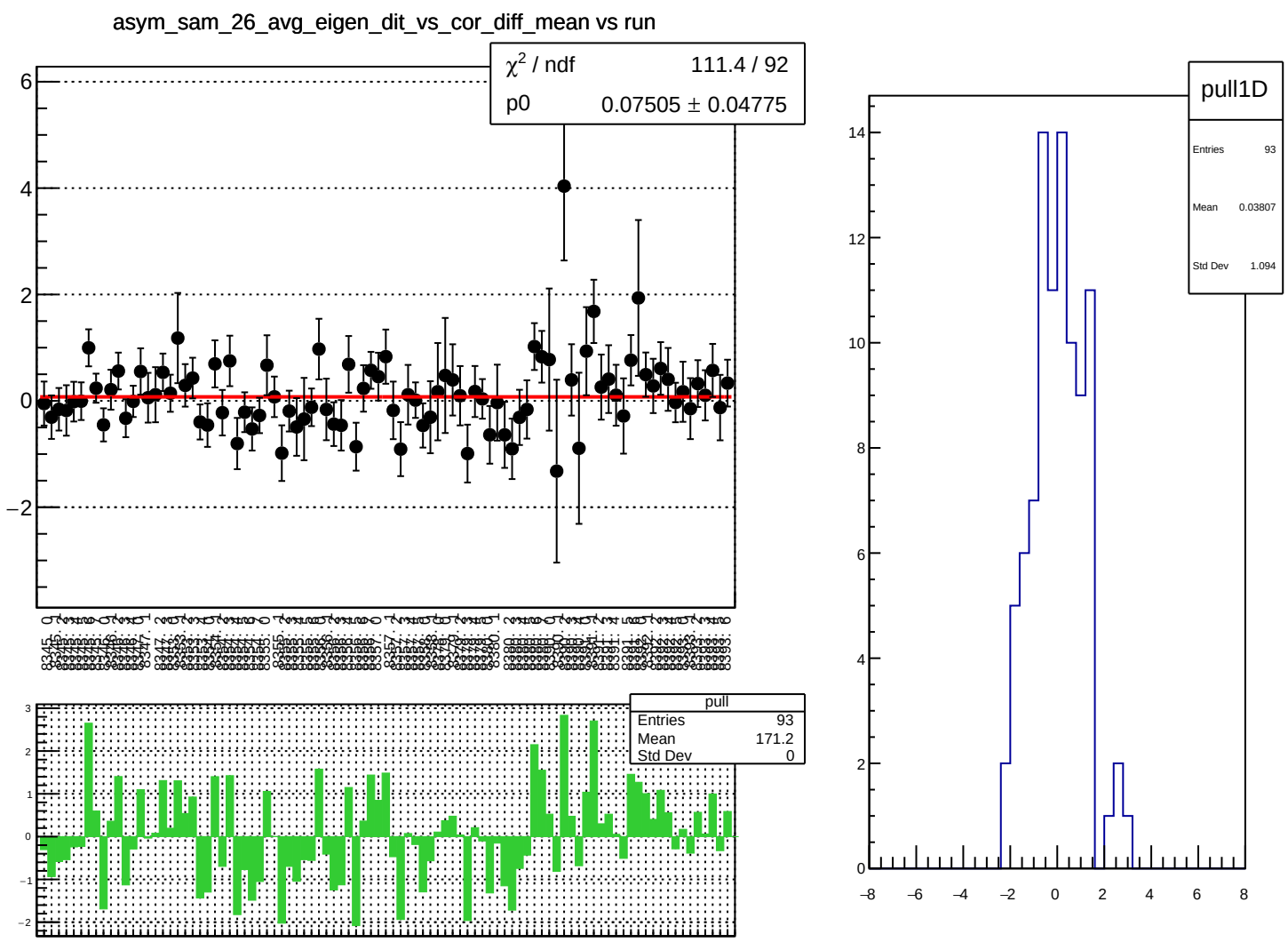

pull1D
Entries 93
Mean 0.03806
Std Dev 1.094

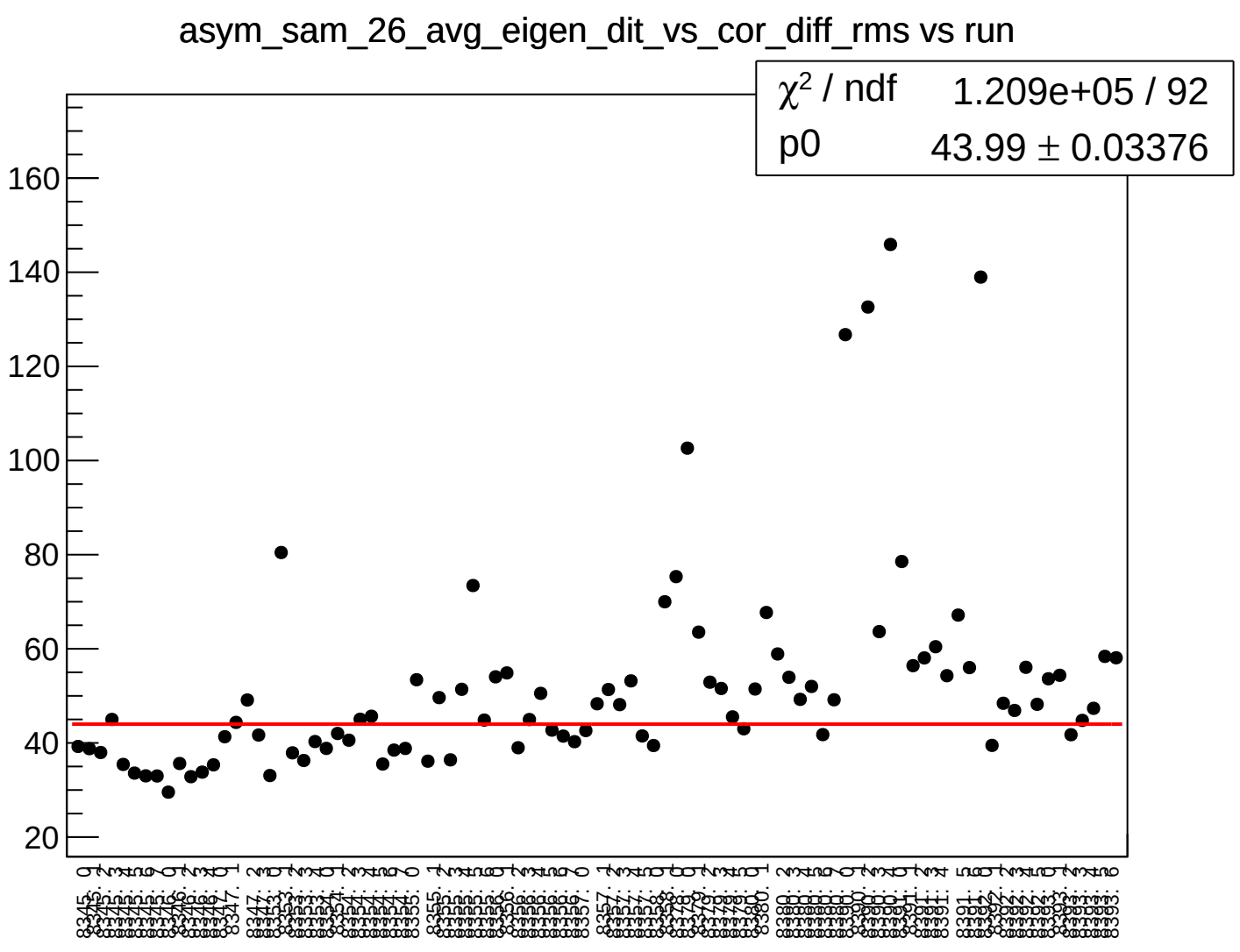

asym_sam_26_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.209e+05 / 92
p0 43.99 ± 0.03376
160
140
120
100
80
60
40
20

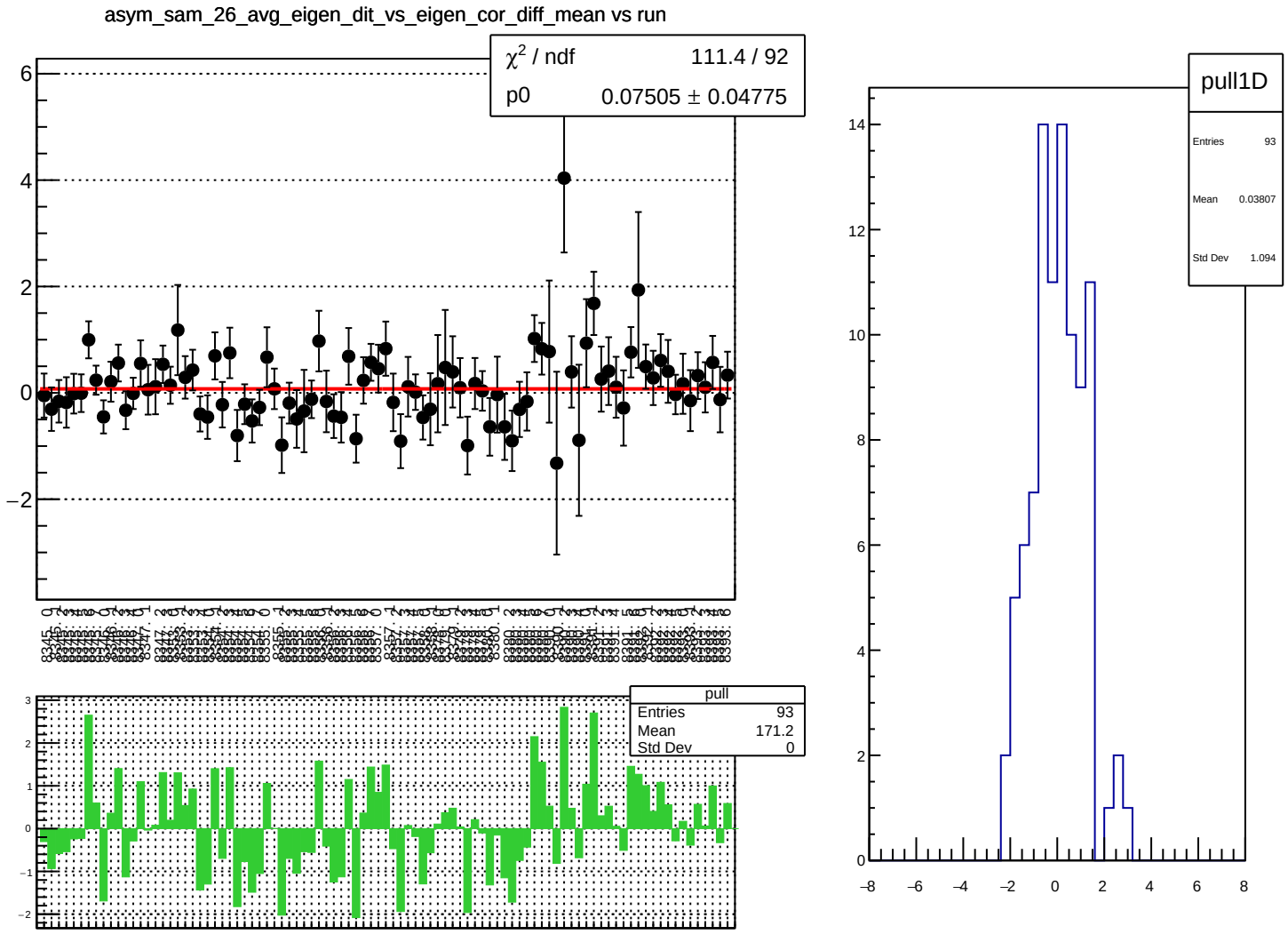

asym_sam_26_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 104.2 / 92
p0 1.181e−05 ± 4.02e−06
pull
Entries 93
Mean 112.7
Std Dev 0

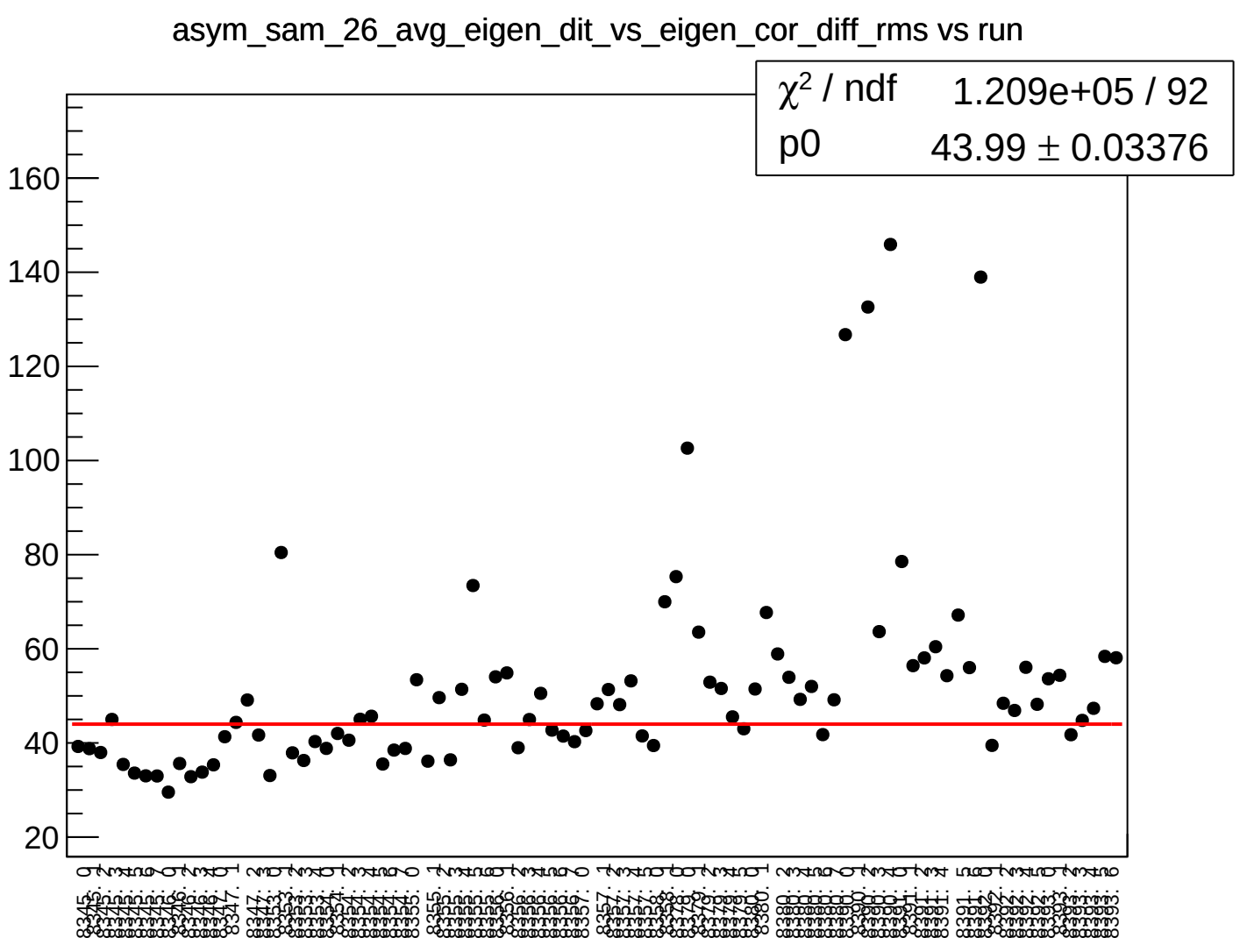

pull1D
Entries 93
Mean 0.05544
Std Dev 1.057

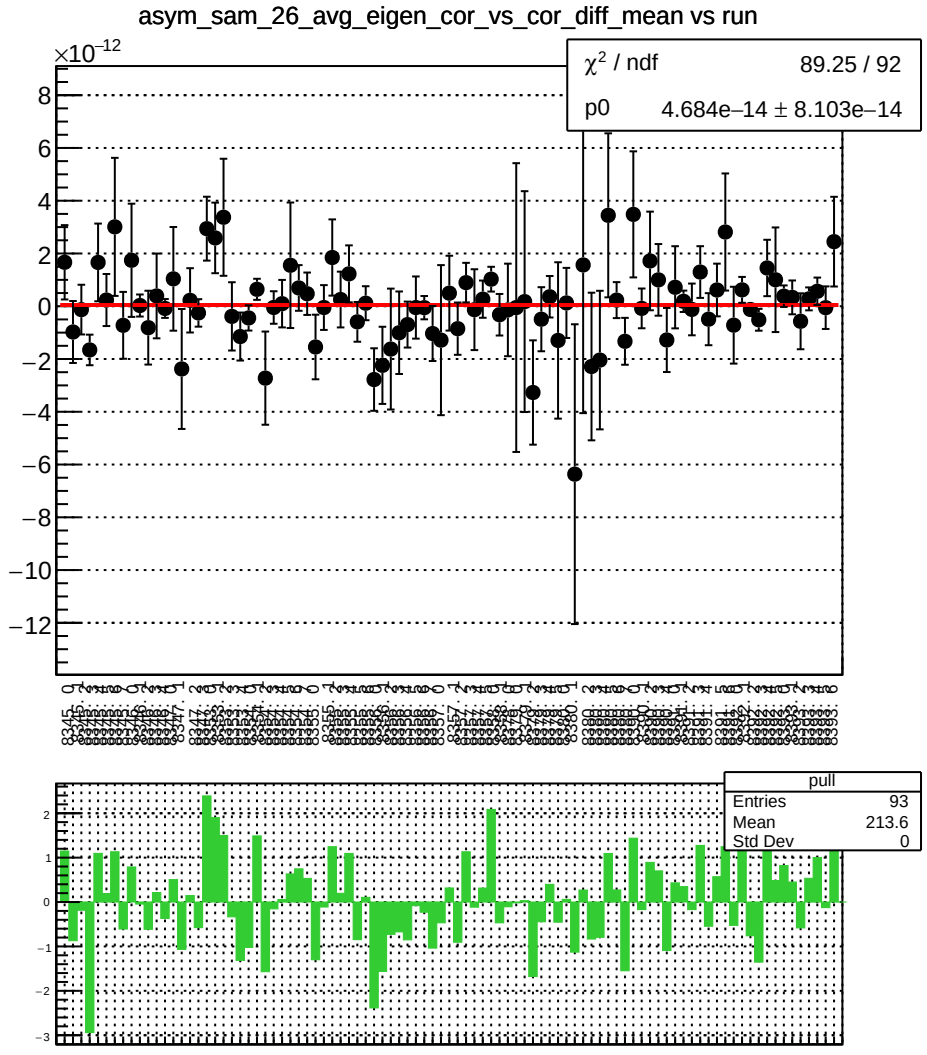

asym_sam_26_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.033e+04 / 92
p0 0.003737 ± 2.843e−06
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003

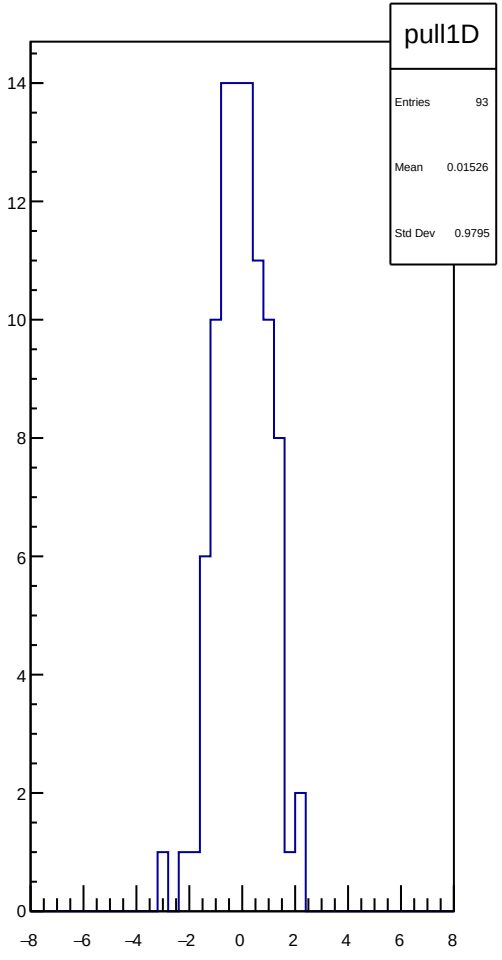

asym_sam_26_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 111.4 / 92
p0 0.07505 ± 0.04775
pull
Entries 93
Mean 171.2
Std Dev 0
pull1D
Entries 93
Mean 0.03807
Std Dev 1.094

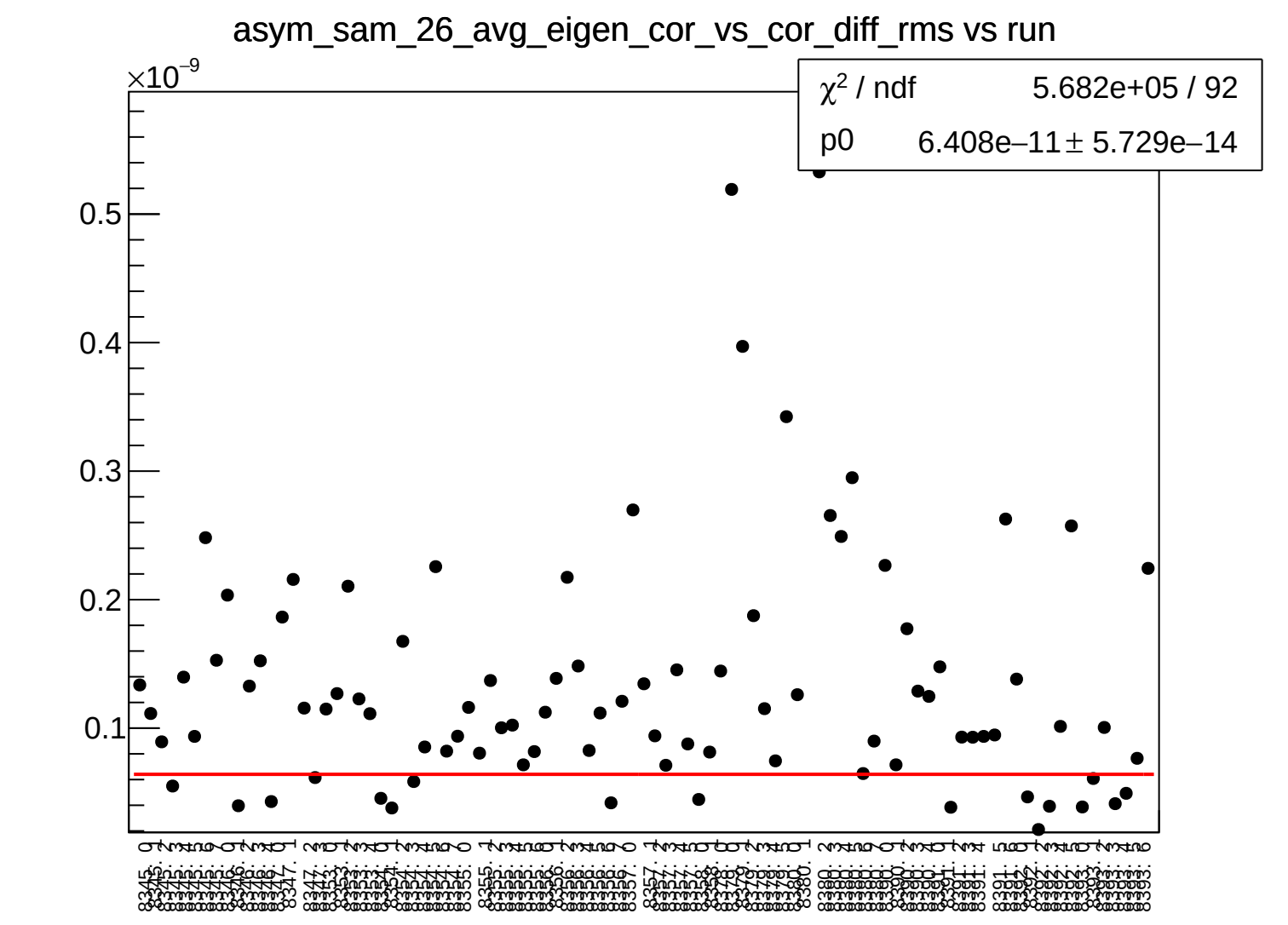

asym_sam_26_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.209e+05 / 92
p0 43.99 ± 0.03376
160
140
120
100
80
60
40
20

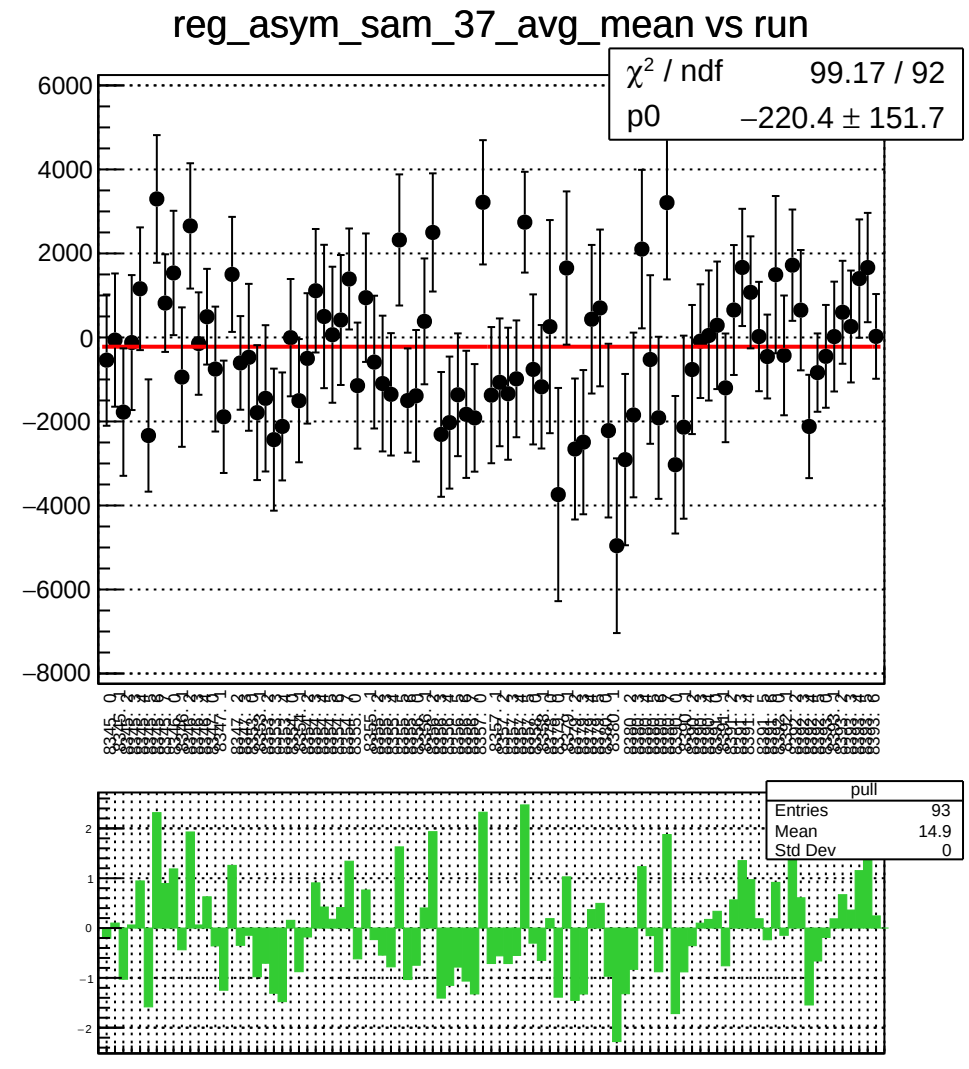

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 111.4 / 92
p0 0.07505 ± 0.04775
pull
Entries 93
Mean 171.2
Std Dev 0
pull1D
Entries 93
Mean 0.03807
Std Dev 1.094

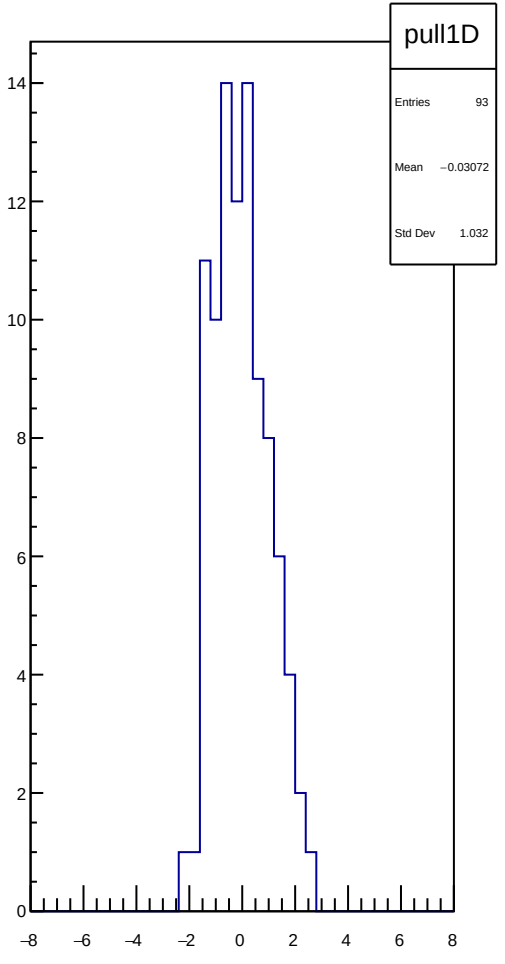

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.209e+05 / 92
p0 43.99 ± 0.03376
160
140
120
100
80
60
40
20

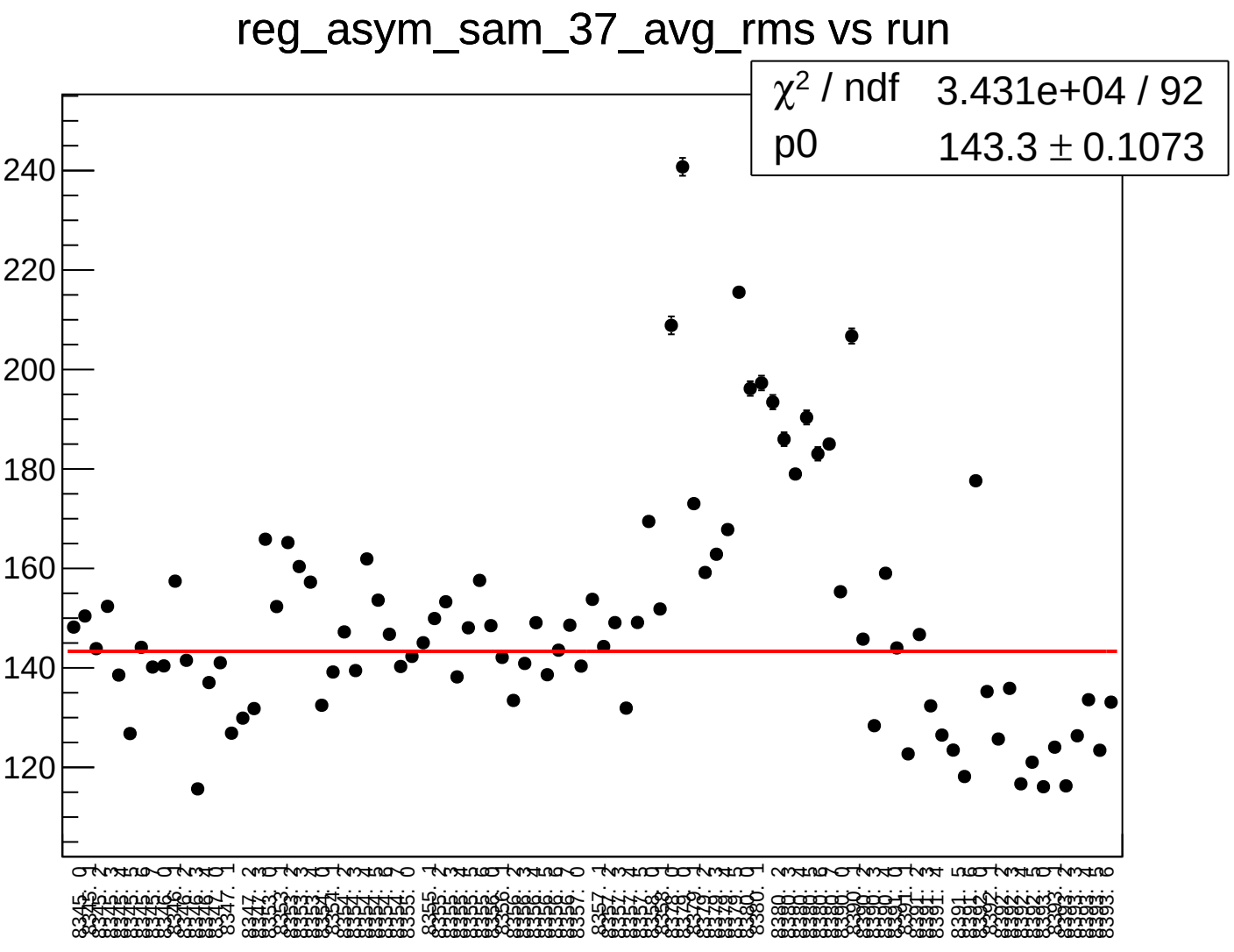

asym_sam_26_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.25 / 92
p0 4.684e−14 ± 8.103e−14
pull
Entries 93
Mean 213.6
Std Dev 0

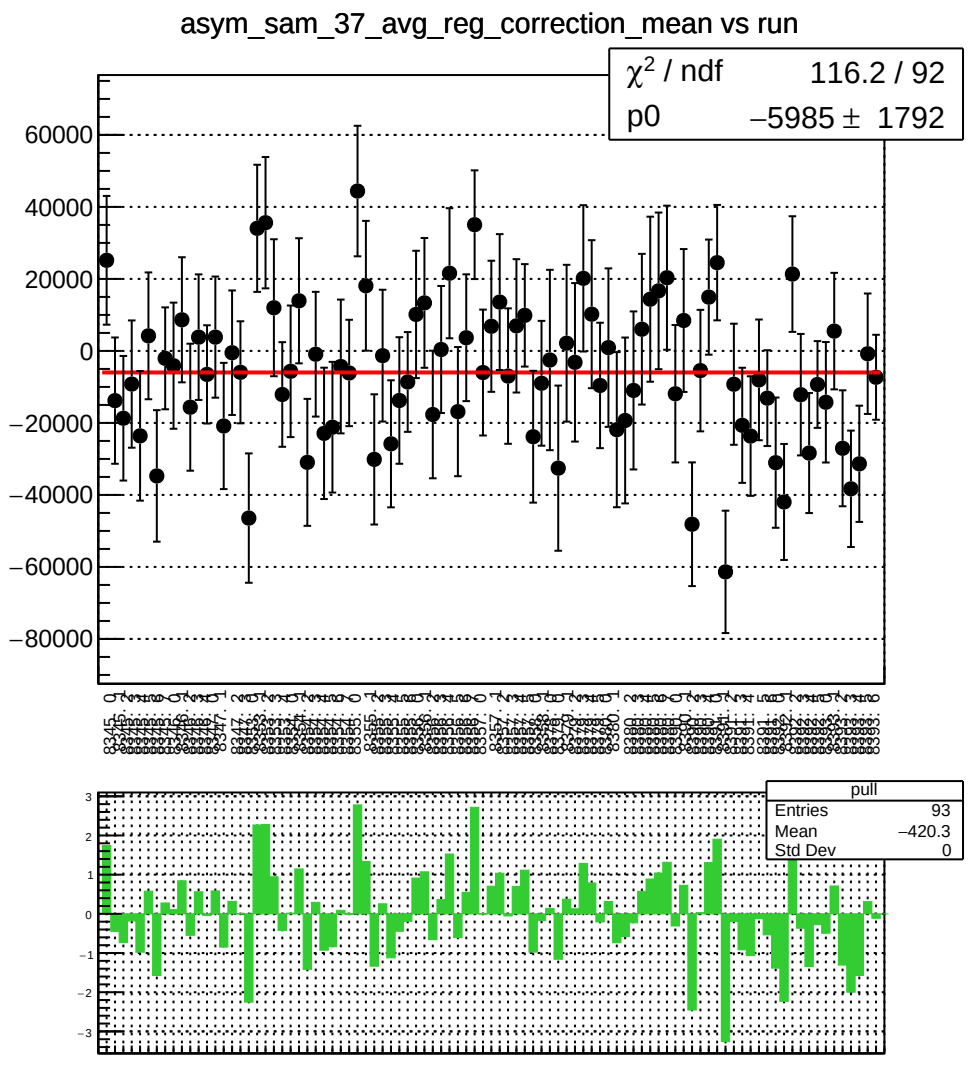

pull1D
Entries 93
Mean 0.01526
Std Dev 0.9795

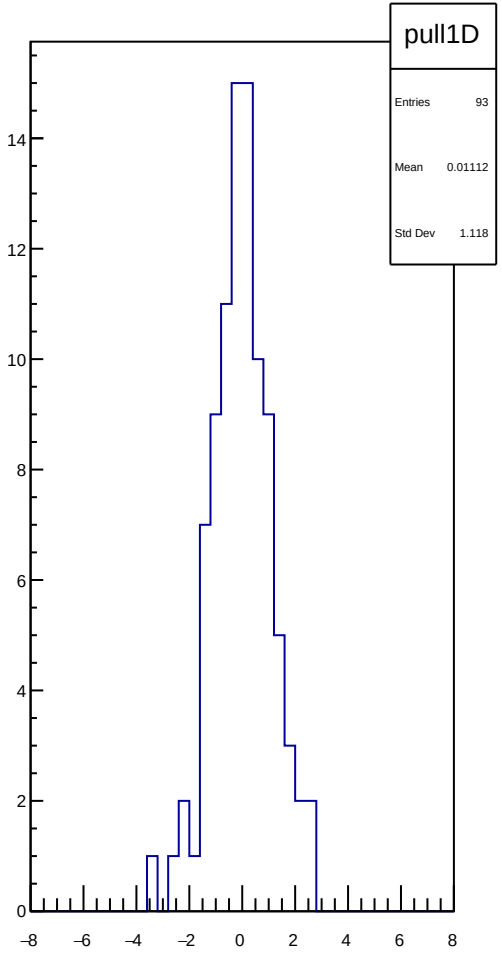

asym_sam_26_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.682e+05 / 92
p0 6.408e−11 ± 5.729e−14
0.5
0.4
0.3
0.2
0.1

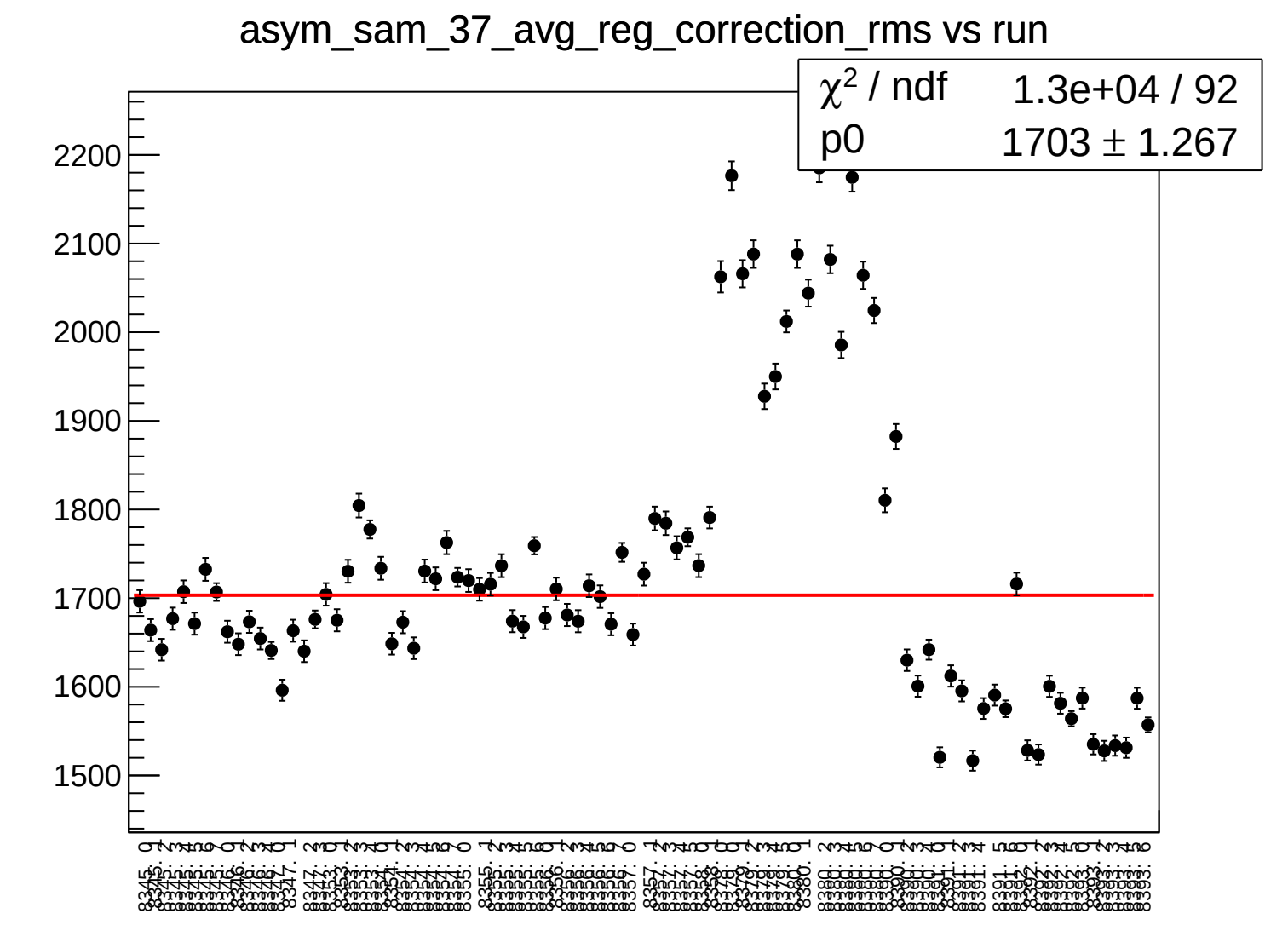

reg_asym_sam_37_avg_mean vs run
χ² / ndf 99.17 / 92
p0 −220.4 ± 151.7
pull
Entries 93
Mean 14.9
Std Dev 0

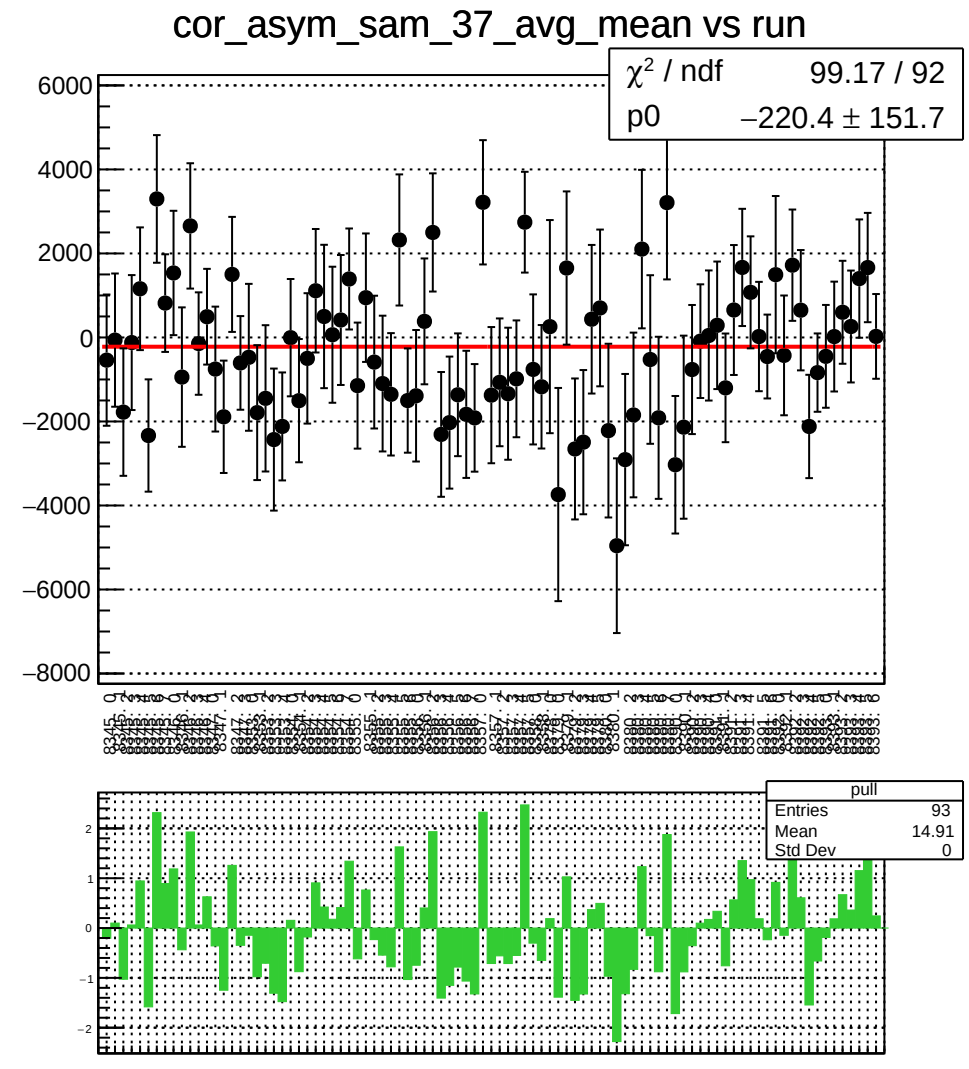

pull1D
Entries 93
Mean −0.03072
Std Dev 1.032

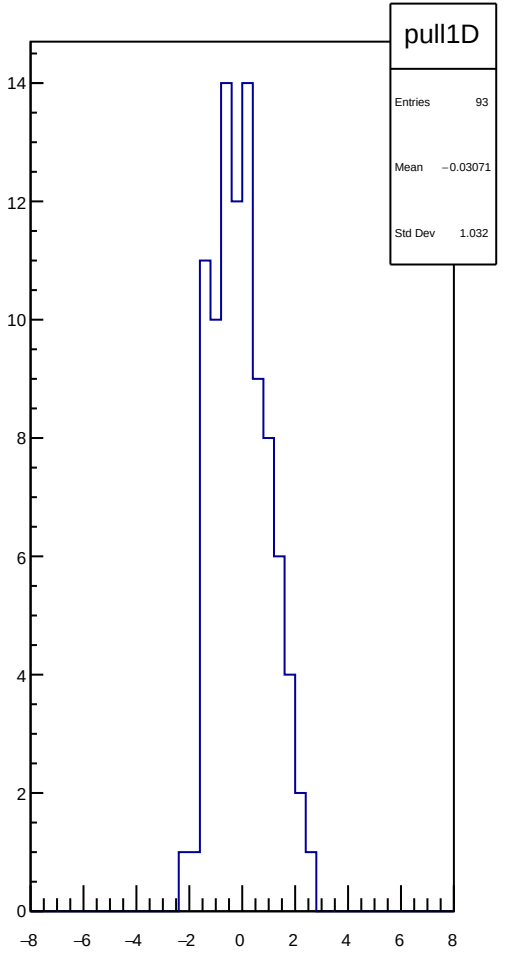

reg_asym_sam_37_avg_rms vs run
χ^2 / ndf 3.431e+04 / 92
p0 143.3 ± 0.1073
240
220
200
180
160
140
120

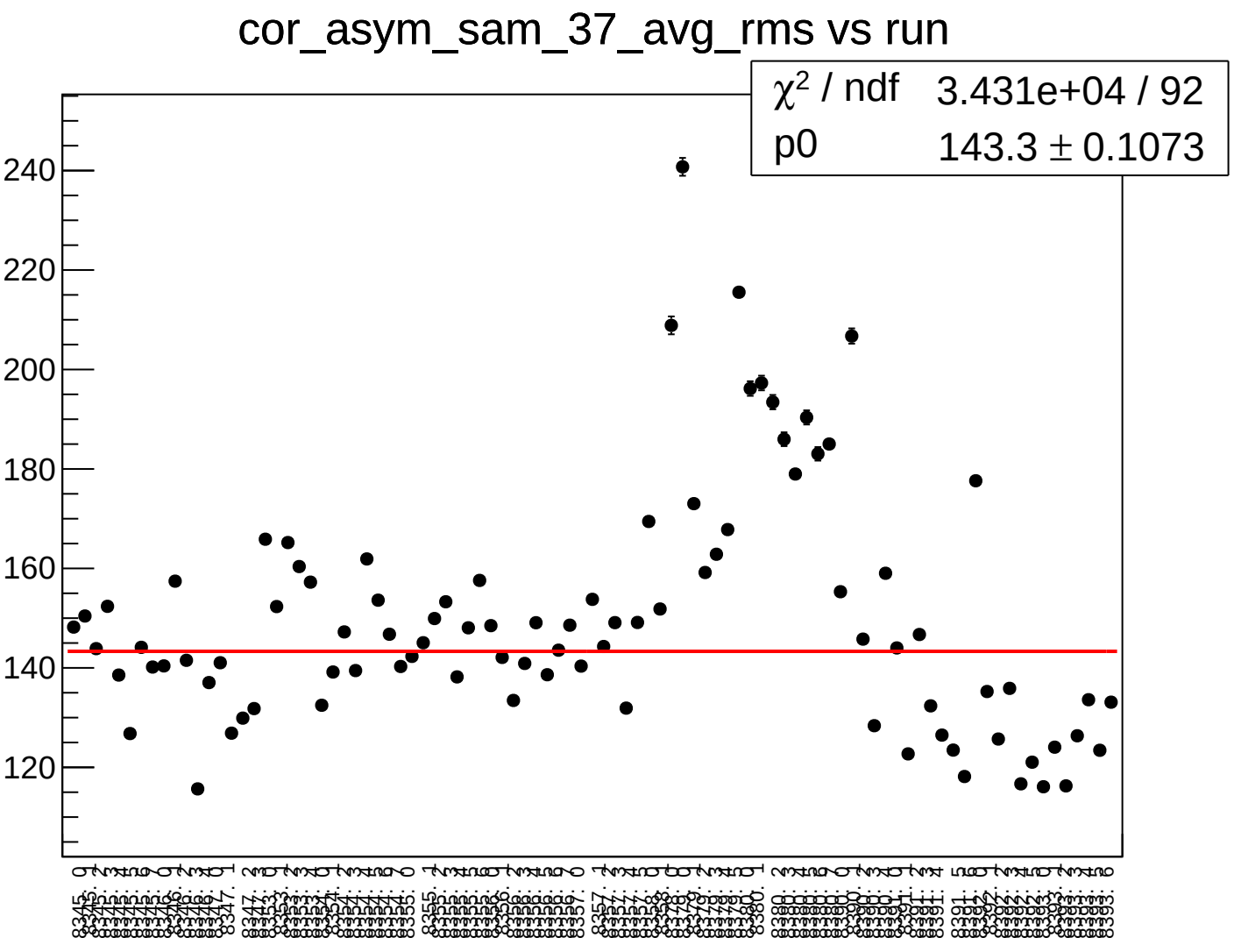

asym_sam_37_avg_reg_correction_mean vs run
χ² / ndf 116.2 / 92
p0 −5985 ± 1792
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean −420.3
Std Dev 0
3
2
1
0
−1
−2
−3

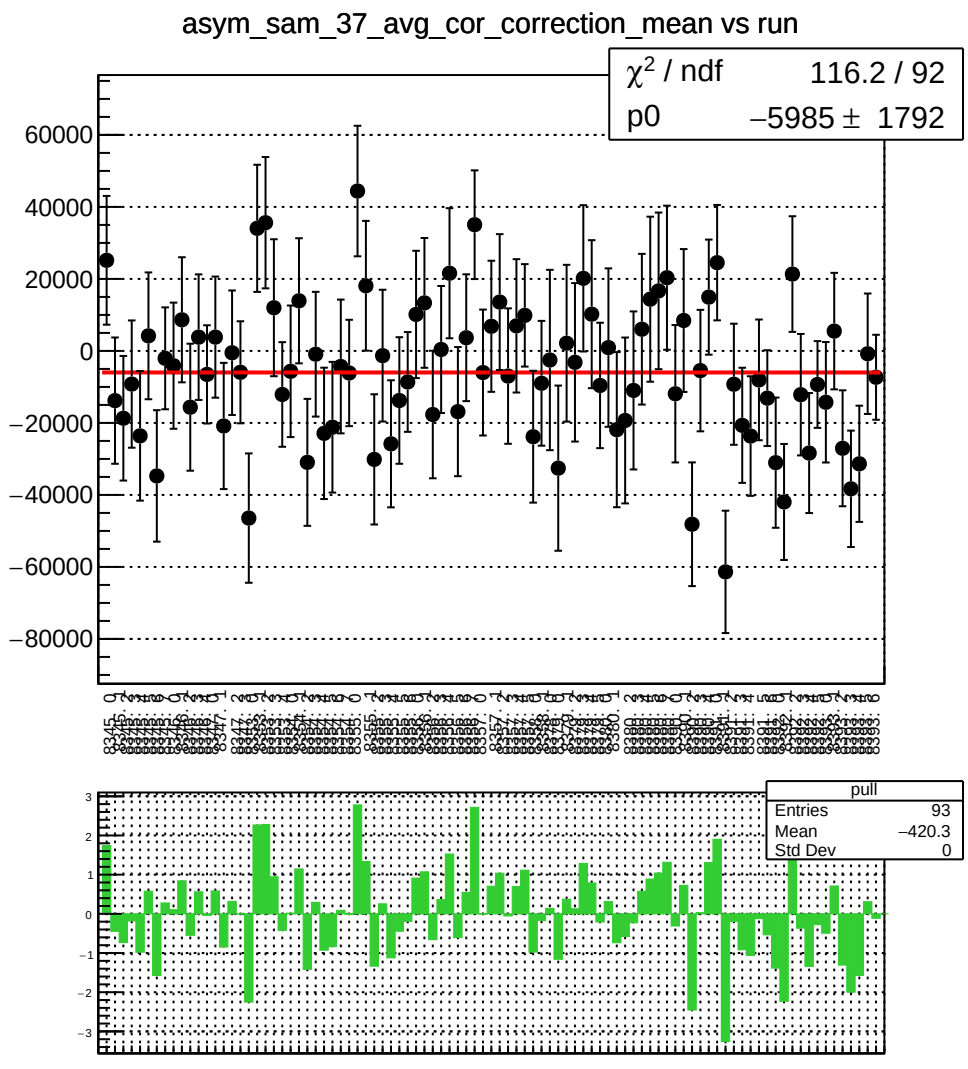

pull1D
Entries 93
Mean 0.01112
Std Dev 1.118
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

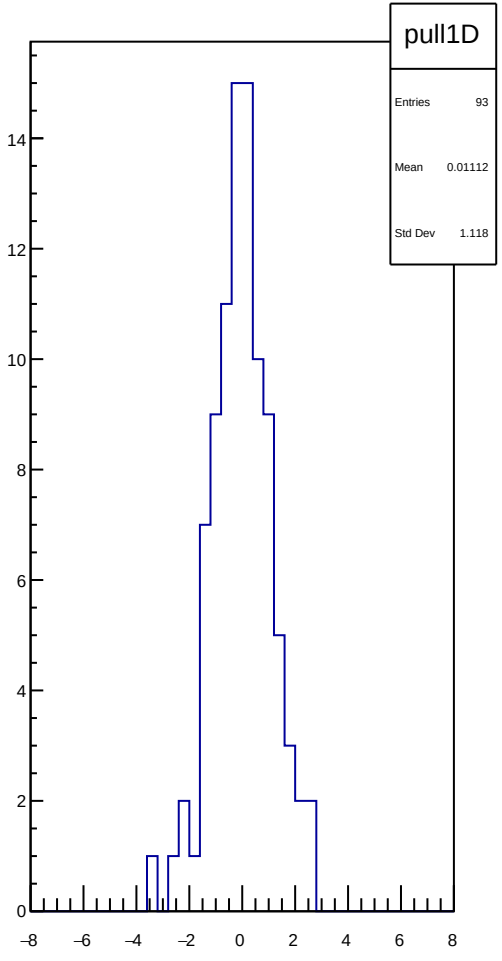

asym_sam_37_avg_reg_correction_rms vs run
χ² / ndf 1.3e+04 / 92
p0 1703 ± 1.267
2200
2100
2000
1900
1800
1700
1600
1500

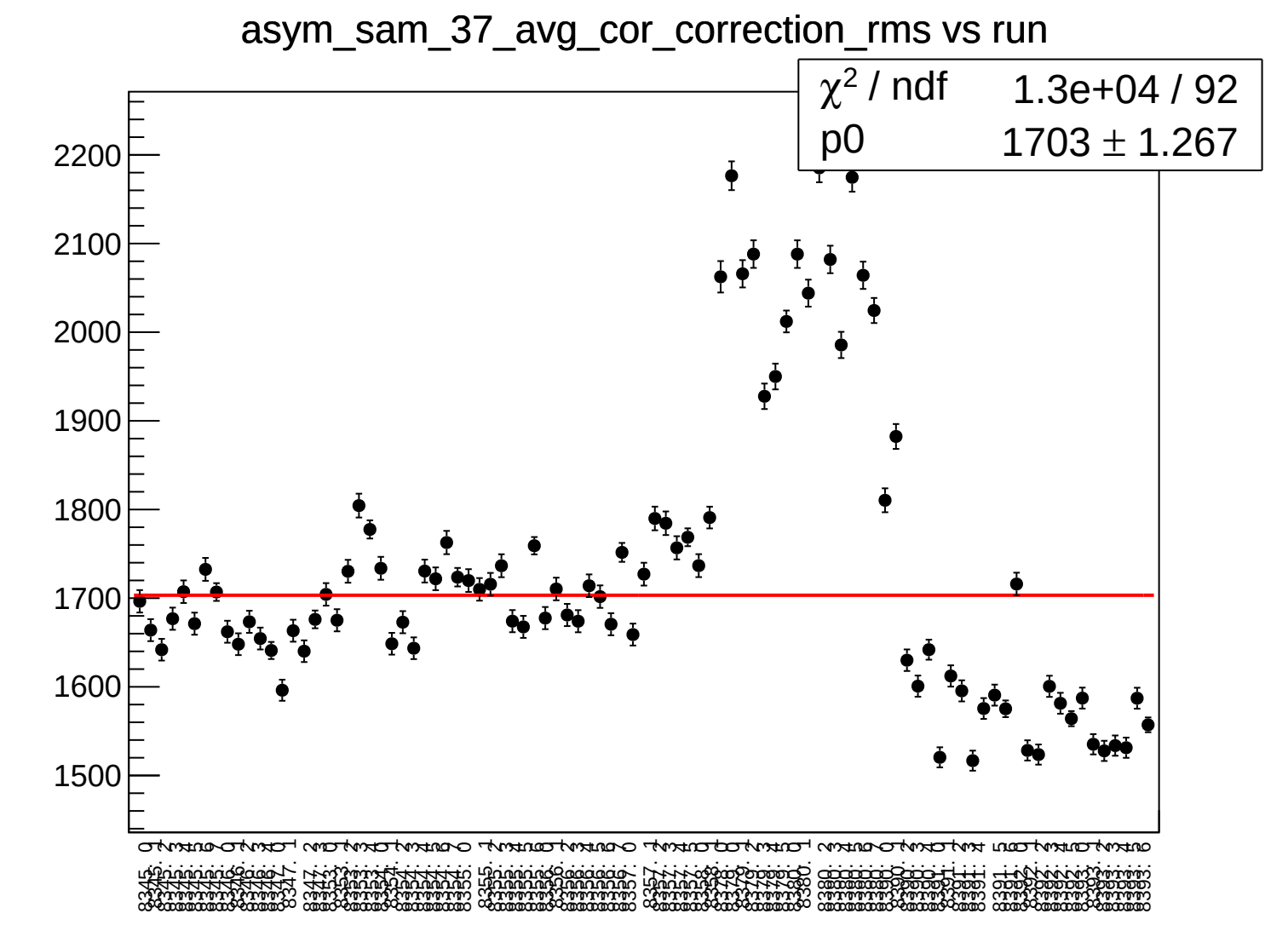

cor_asym_sam_37_avg_mean vs run
χ² / ndf 99.17 / 92
p0 −220.4 ± 151.7
pull
Entries 93
Mean 14.91
Std Dev 0

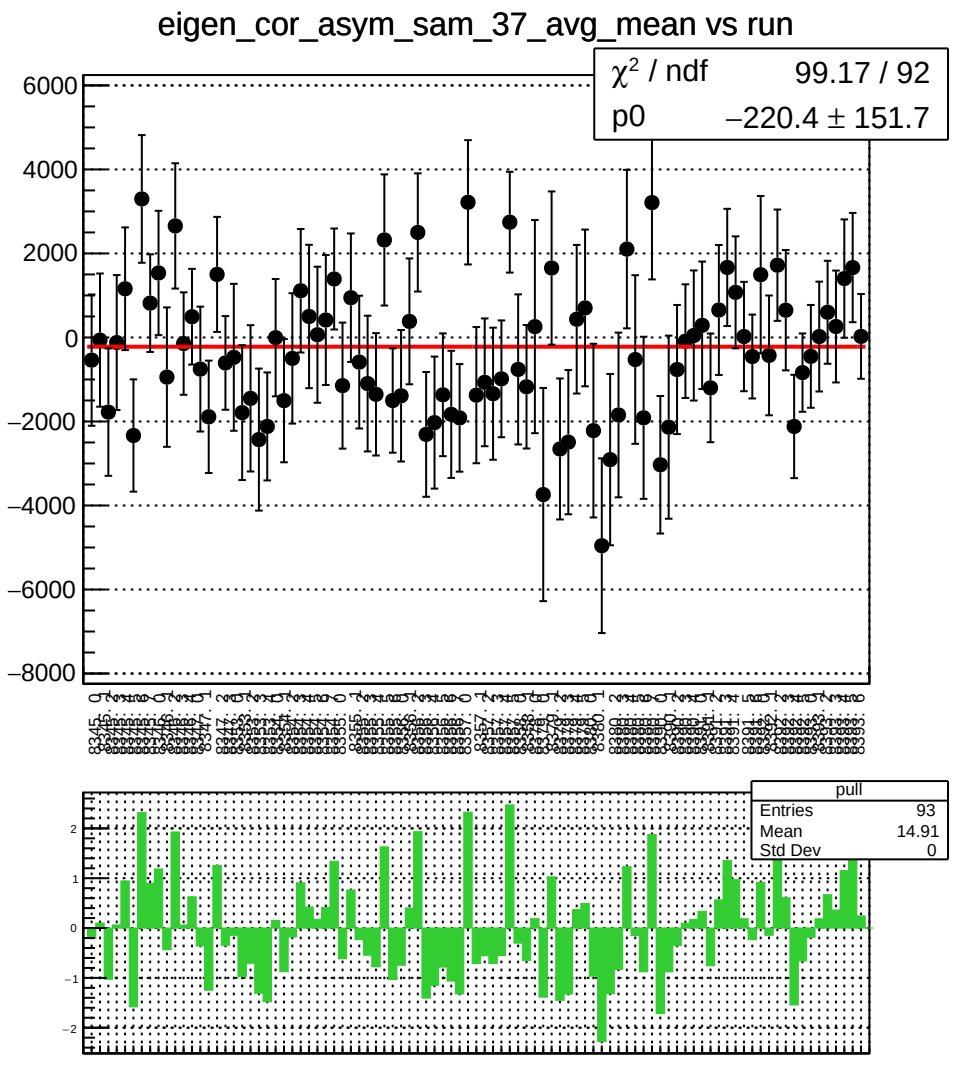

pull1D
Entries 93
Mean −0.03071
Std Dev 1.032

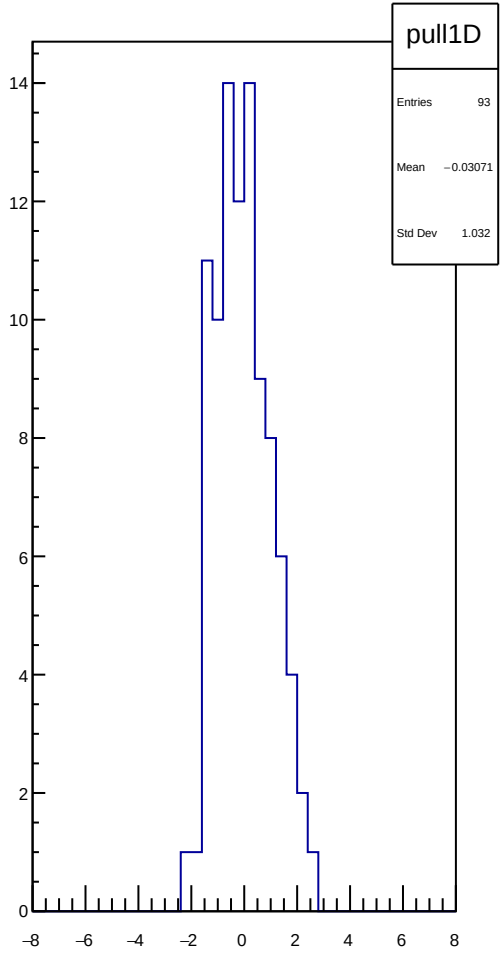

cor_asym_sam_37_avg_rms vs run
χ² / ndf 3.431e+04 / 92
p0 143.3 ± 0.1073
240
220
200
180
160
140
120

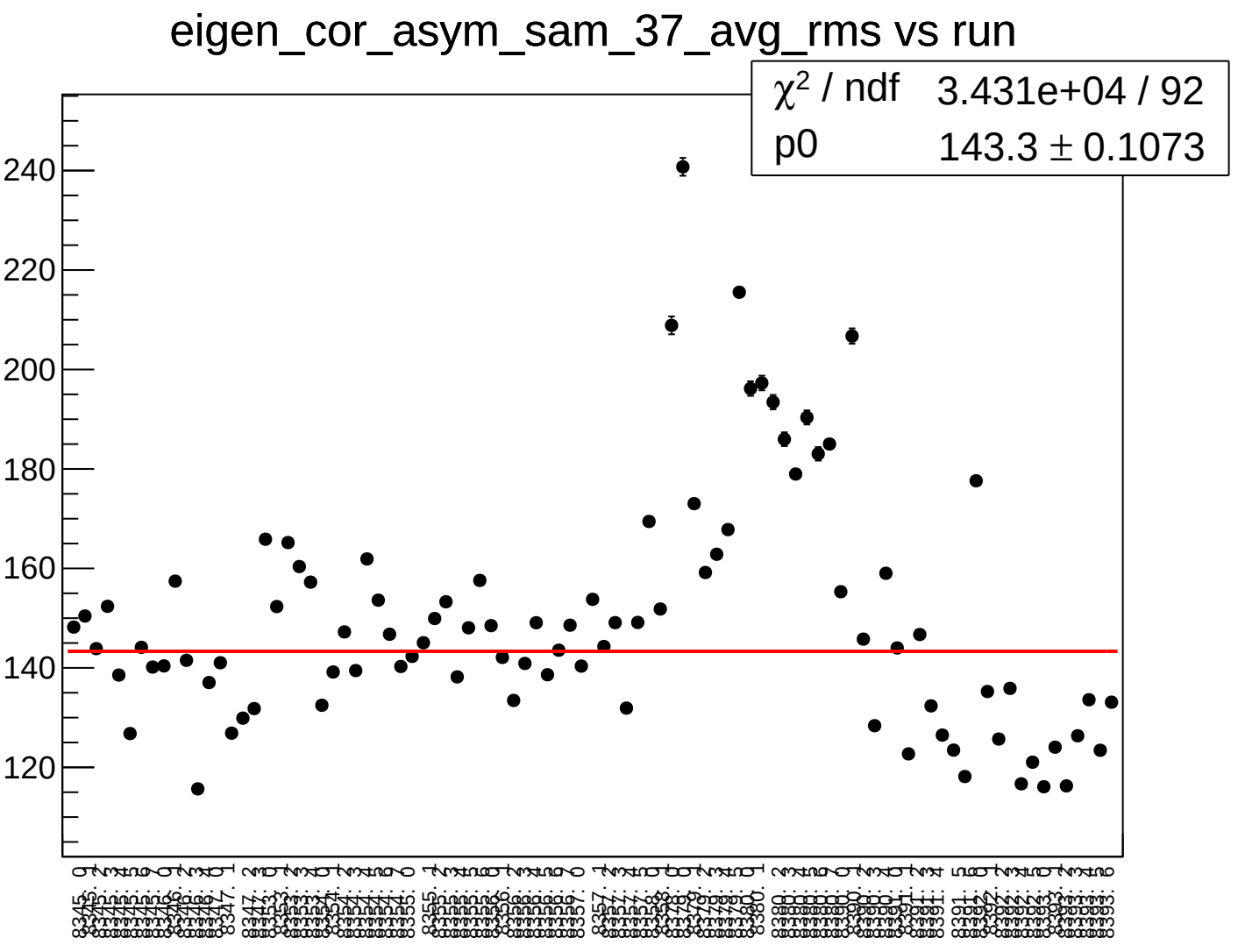

asym_sam_37_avg_cor_correction_mean vs run
χ² / ndf 116.2 / 92
p0 −5985 ± 1792
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean −420.3
Std Dev 0
3
2
1
0
−1
−2
−3

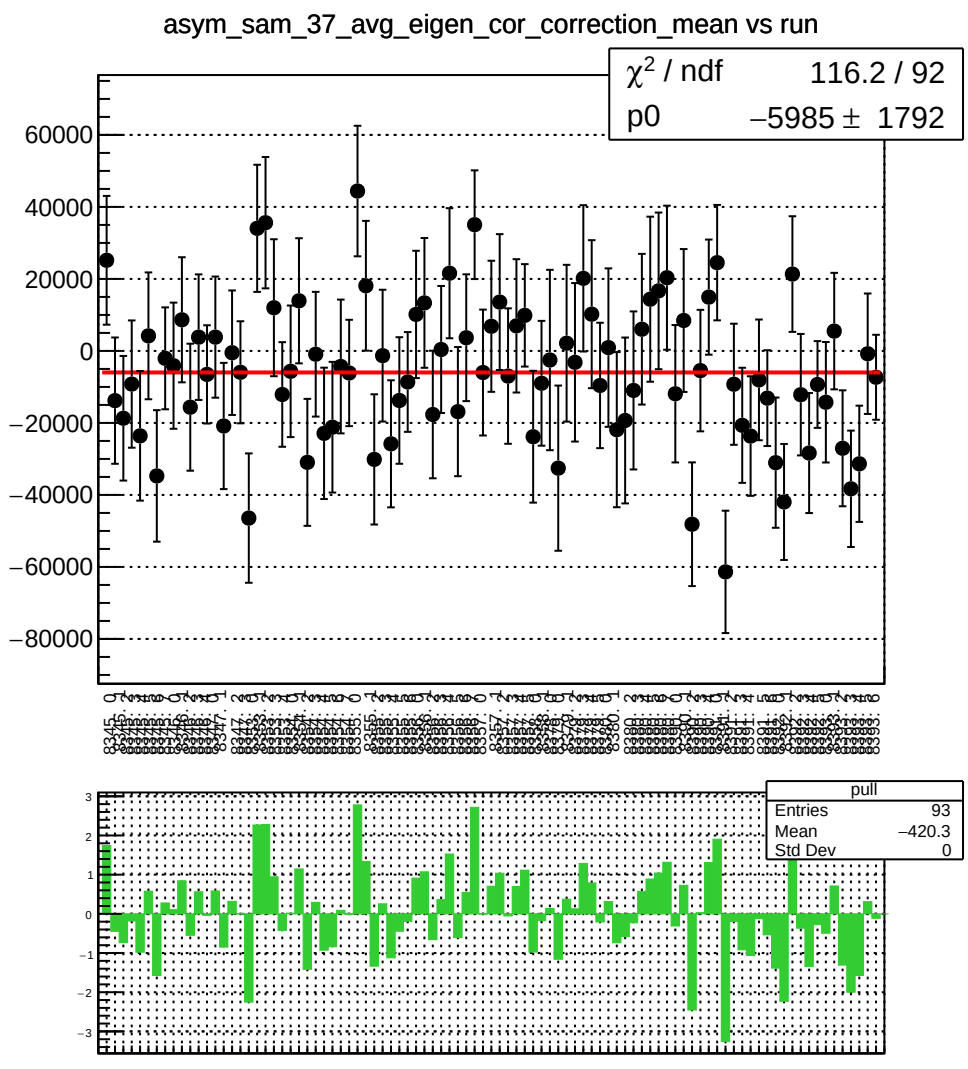

pull1D
Entries 93
Mean 0.01112
Std Dev 1.118
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

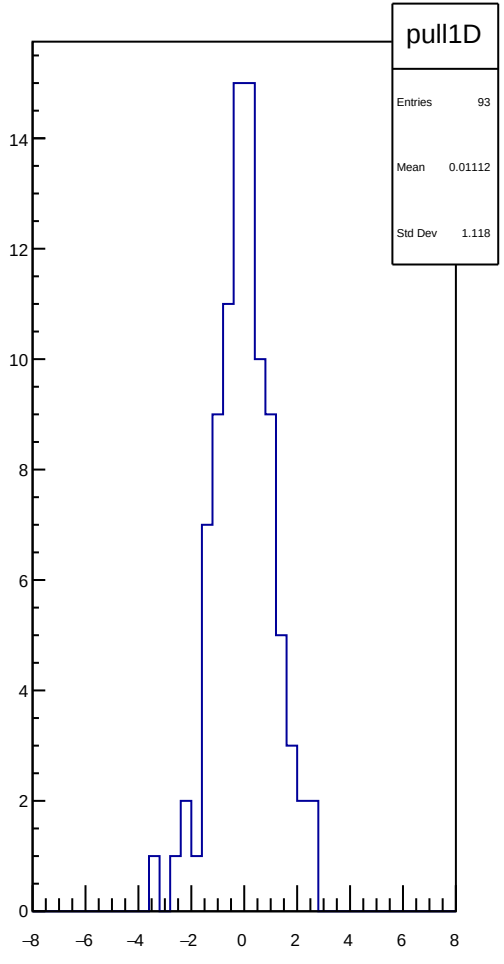

asym_sam_37_avg_cor_correction_rms vs run
χ^2 / ndf 1.3e+04 / 92
p0 1703 ± 1.267
2200
2100
2000
1900
1800
1700
1600
1500

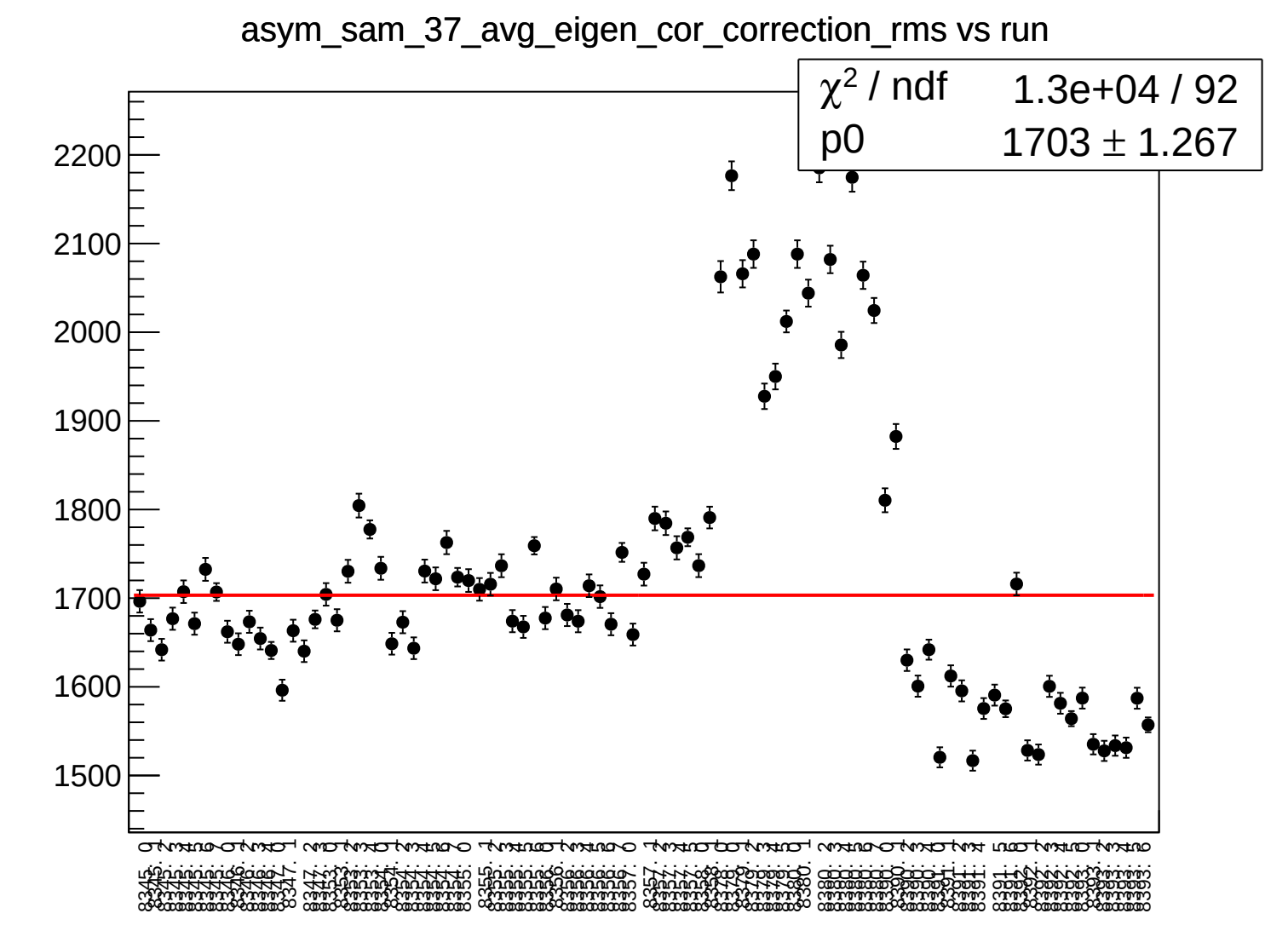

eigen_cor_asym_sam_37_avg_mean vs run
χ² / ndf 99.17 / 92
p0 −220.4 ± 151.7
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 93
Mean 14.91
Std Dev 0
2
1
0
−1
−2

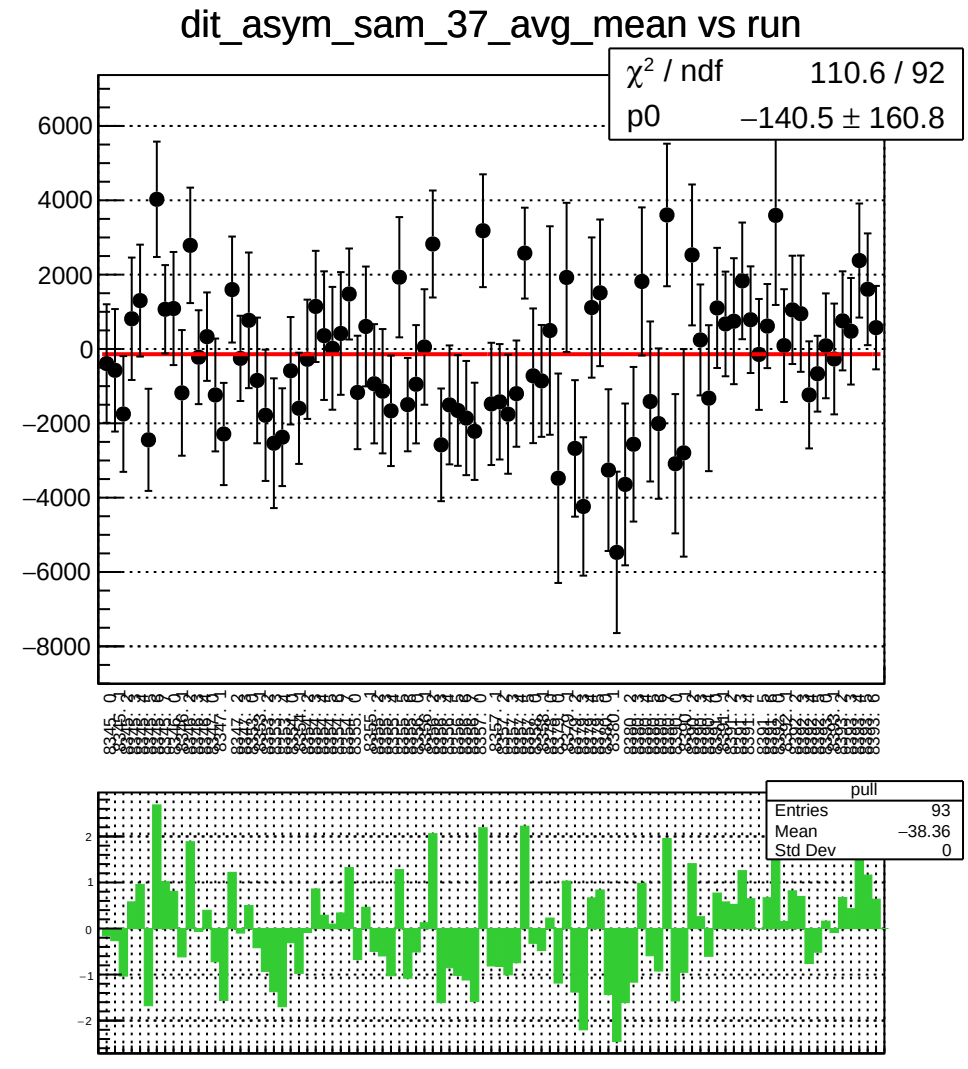

pull1D
Entries 93
Mean −0.03071
Std Dev 1.032
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

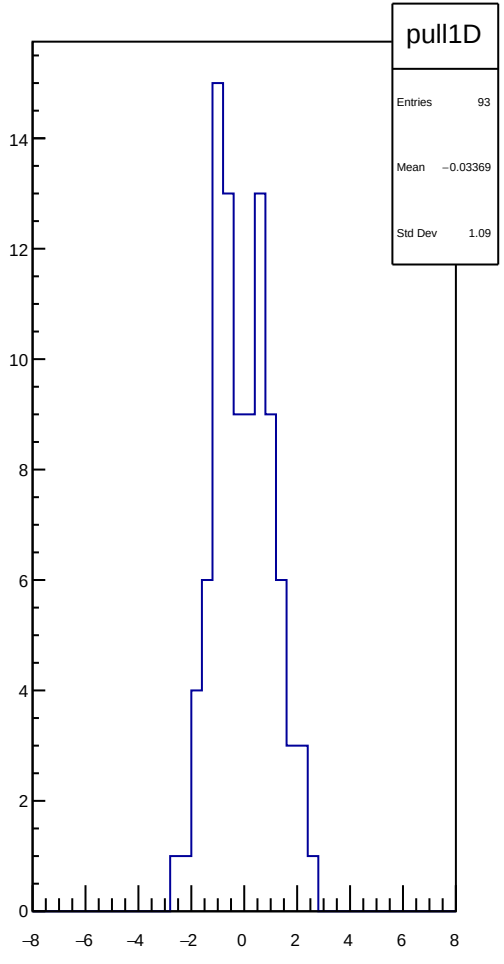

eigen_cor_asym_sam_37_avg_rms vs run
χ² / ndf 3.431e+04 / 92
p0 143.3 ± 0.1073
240
220
200
180
160
140
120

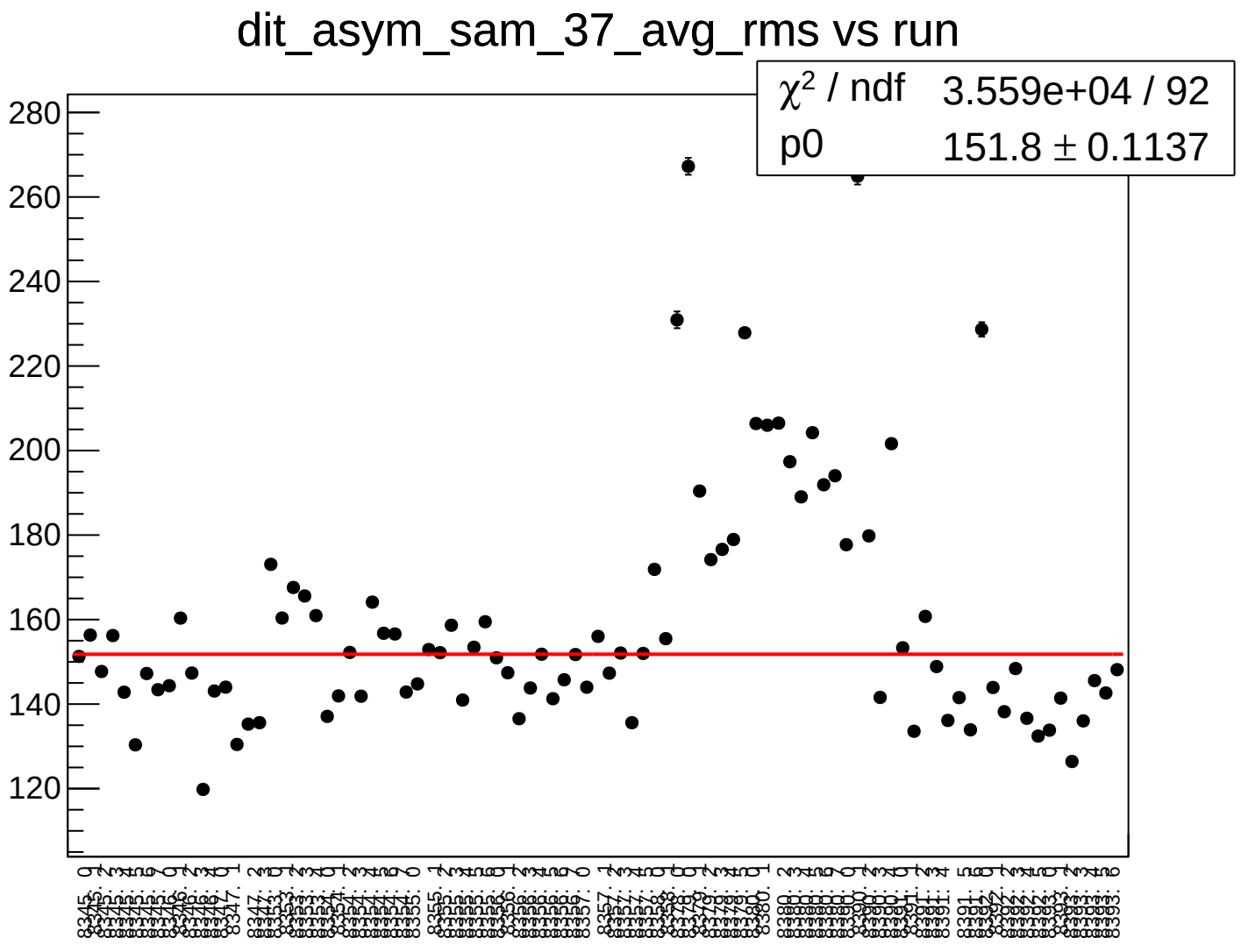

asym_sam_37_avg_eigen_cor_correction_mean vs run
χ² / ndf 116.2 / 92
p0 −5985 ± 1792
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean −420.3
Std Dev 0
3
2
1
0
−1
−2
−3

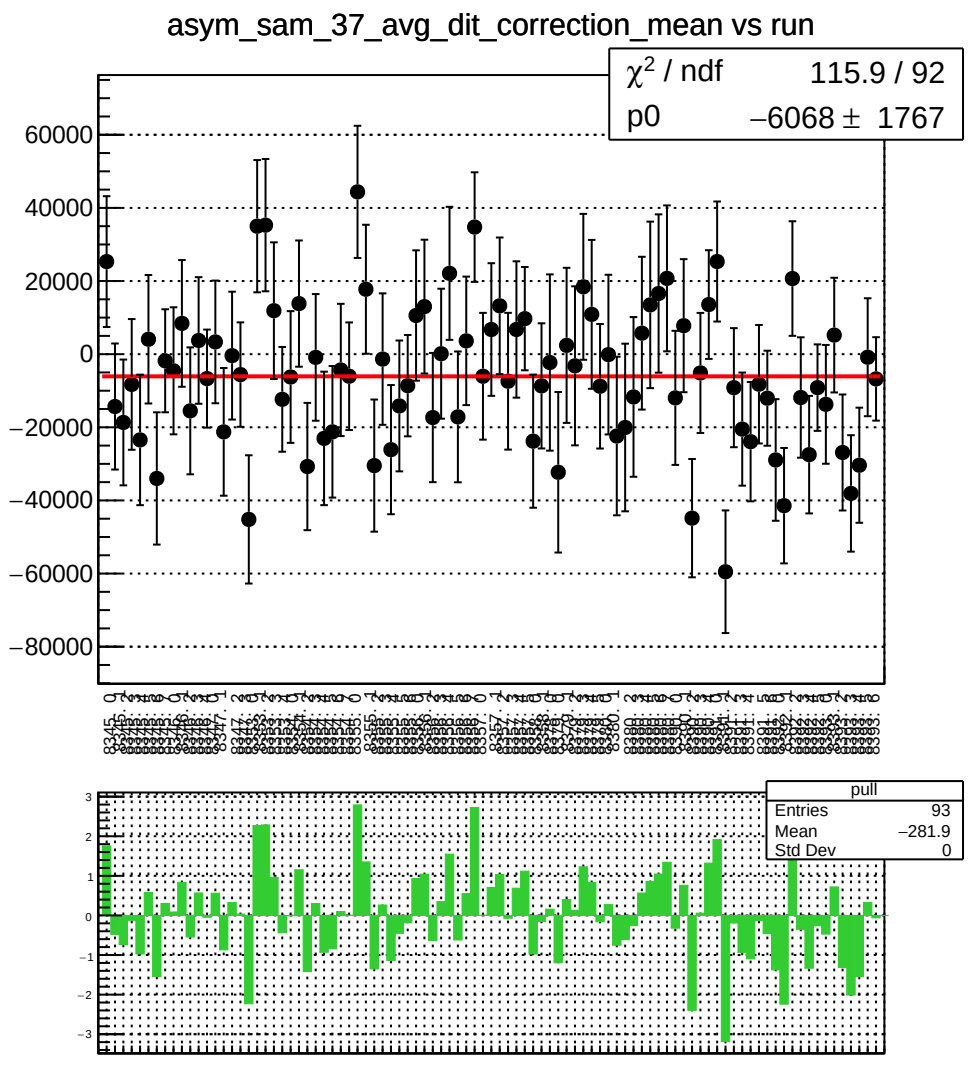

pull1D
Entries 93
Mean 0.01112
Std Dev 1.118
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

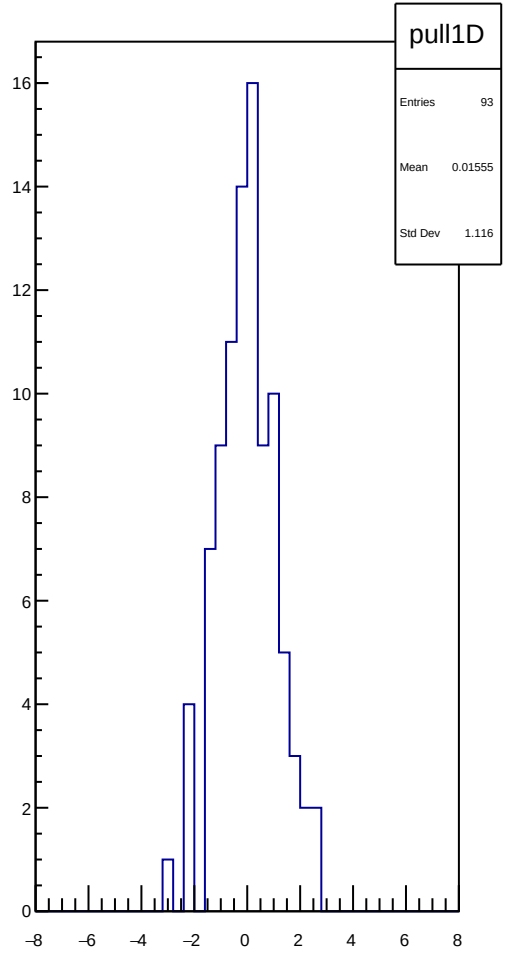

asym_sam_37_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.3e+04 / 92
p0 1703 ± 1.267
2200
2100
2000
1900
1800
1700
1600
1500

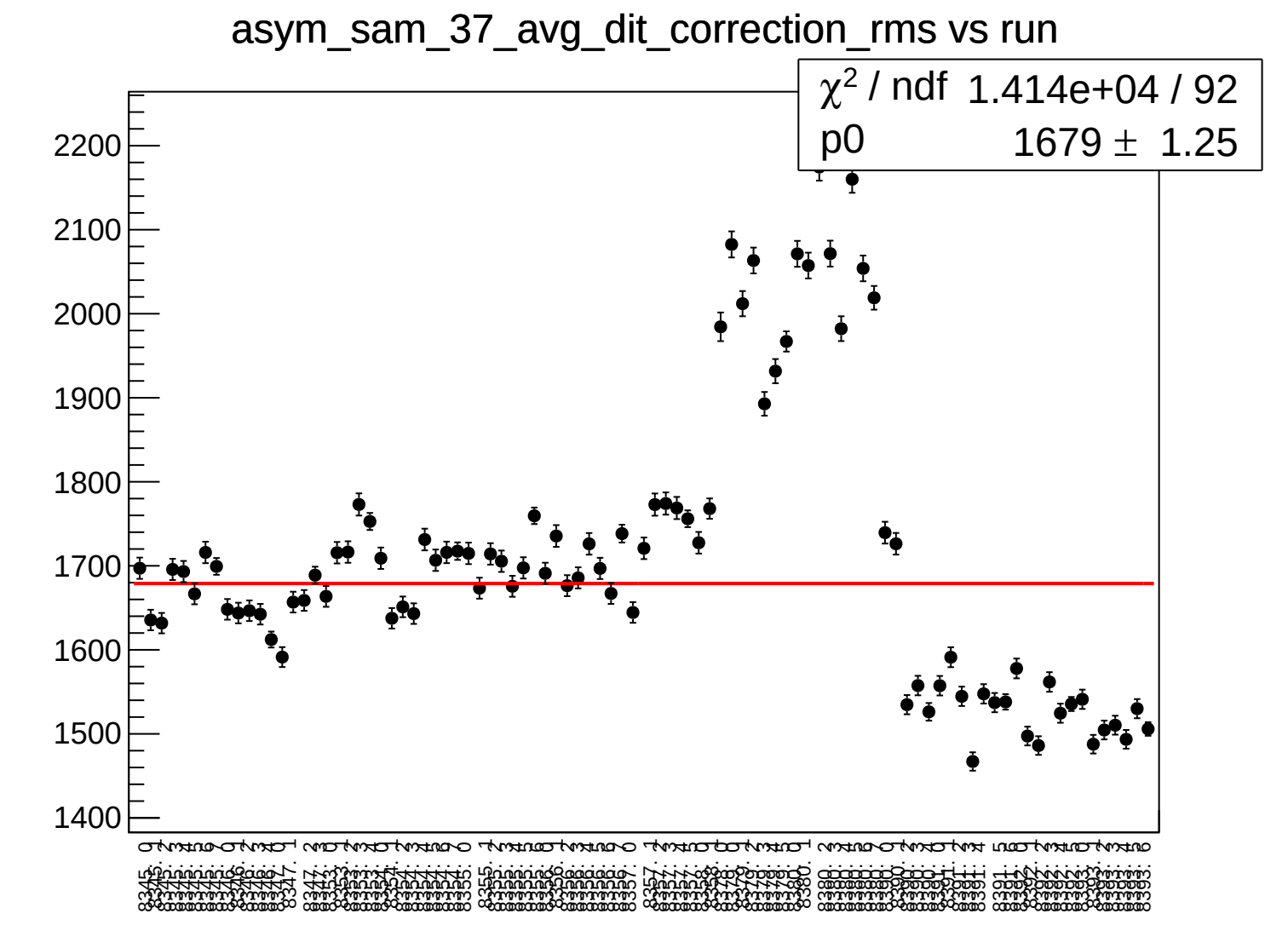

dit_asym_sam_37_avg_mean vs run
χ² / ndf 110.6 / 92
p0 −140.5 ± 160.8
pull
Entries 93
Mean −38.36
Std Dev 0

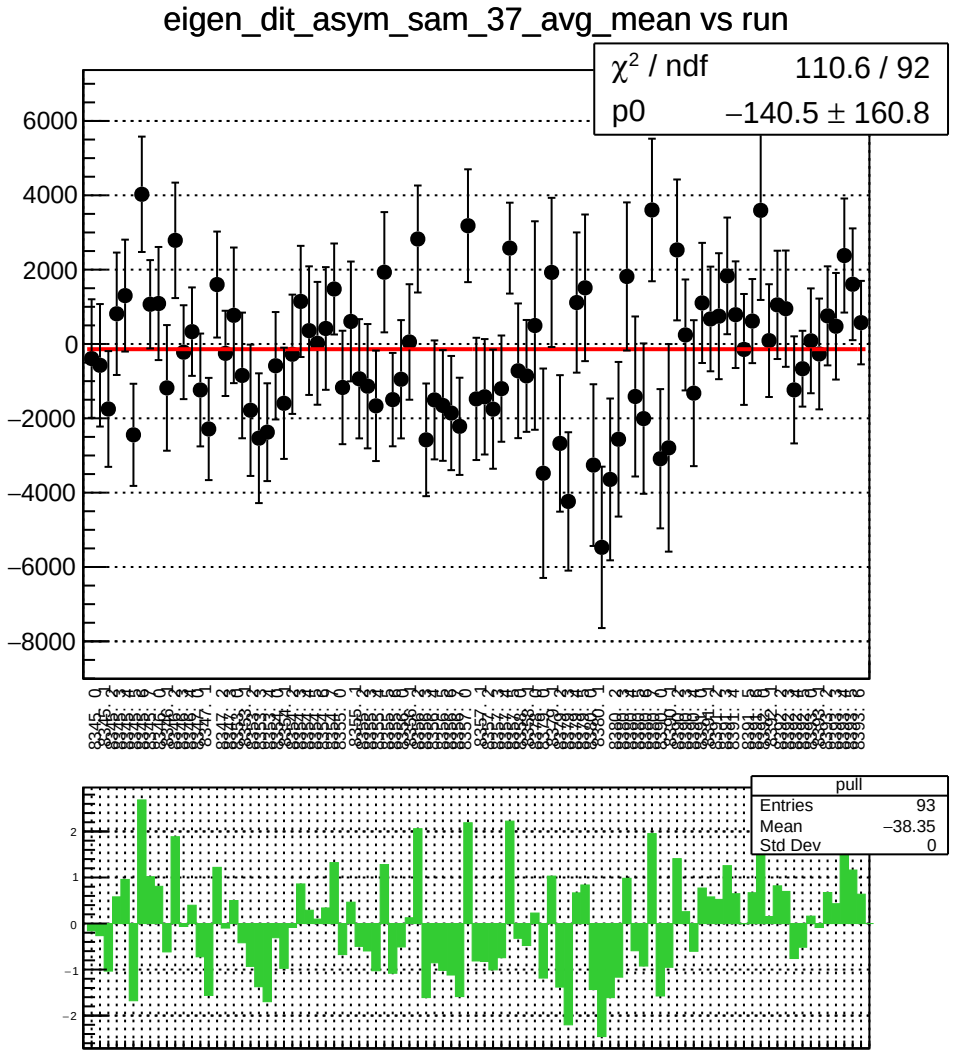

pull1D
Entries 93
Mean −0.03369
Std Dev 1.09

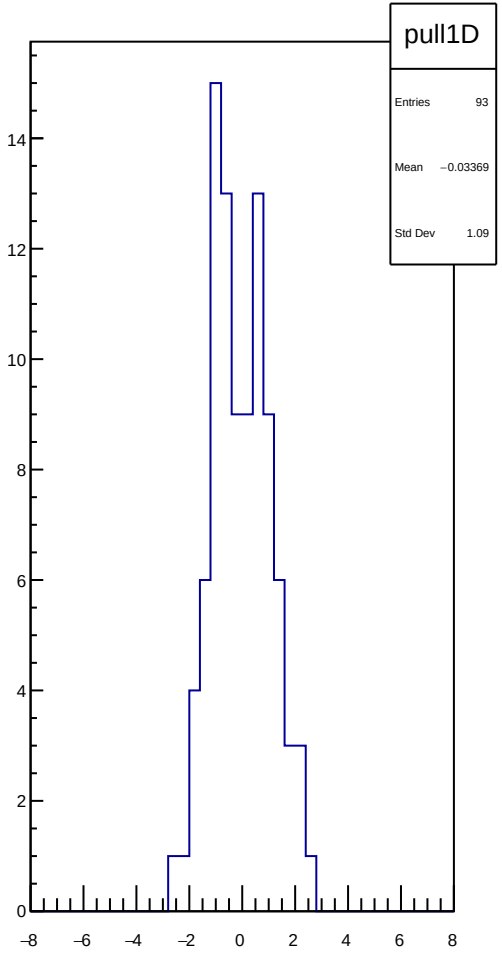

dit_asym_sam_37_avg_rms vs run
χ^2 / ndf 3.559e+04 / 92
p0 151.8 ± 0.1137
280
260
240
220
200
180
160
140
120

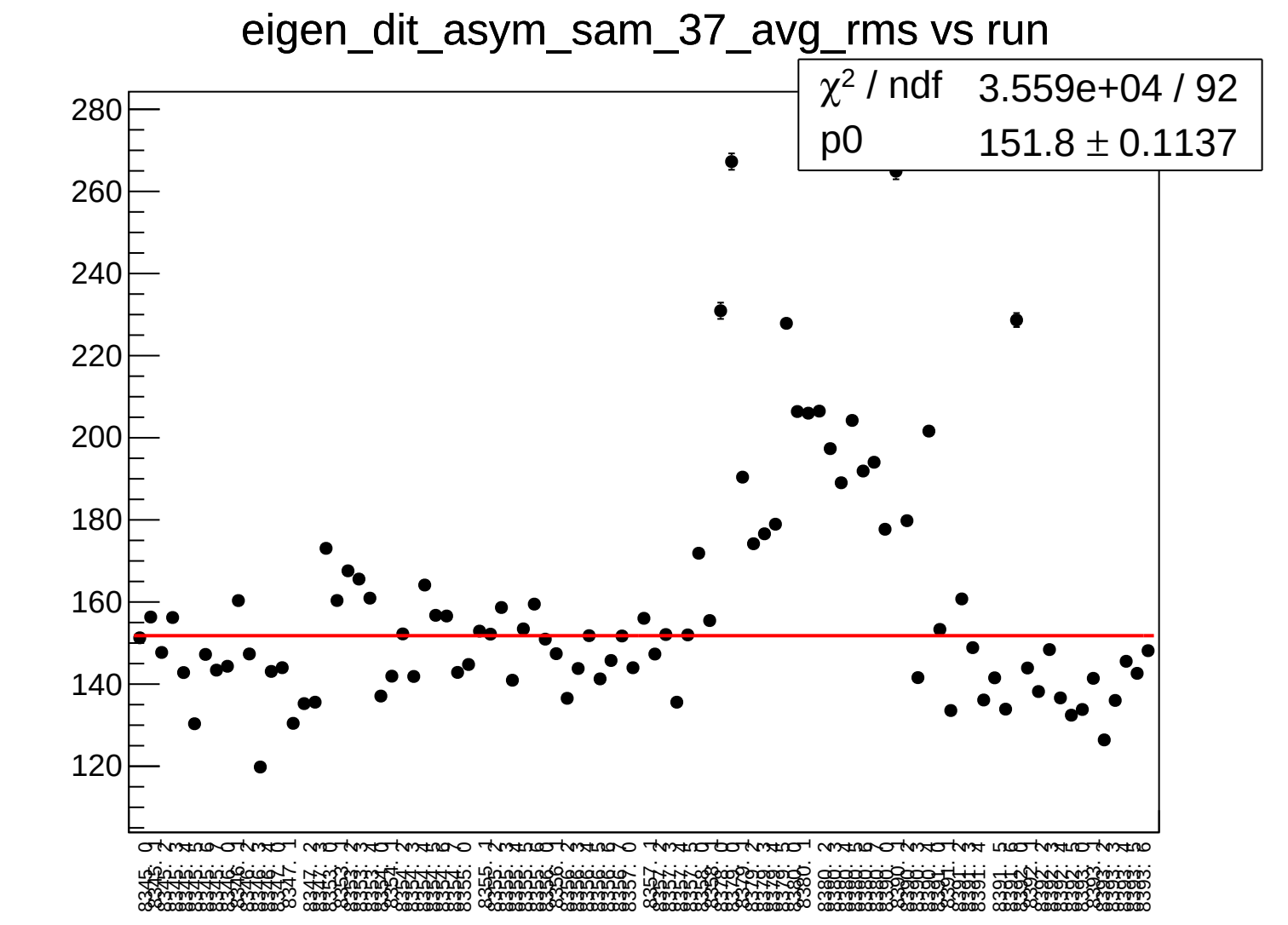

asym_sam_37_avg_dit_correction_mean vs run
χ² / ndf 115.9 / 92
p0 −6068 ± 1767
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean −281.9
Std Dev 0
3
2
1
0
−1
−2
−3

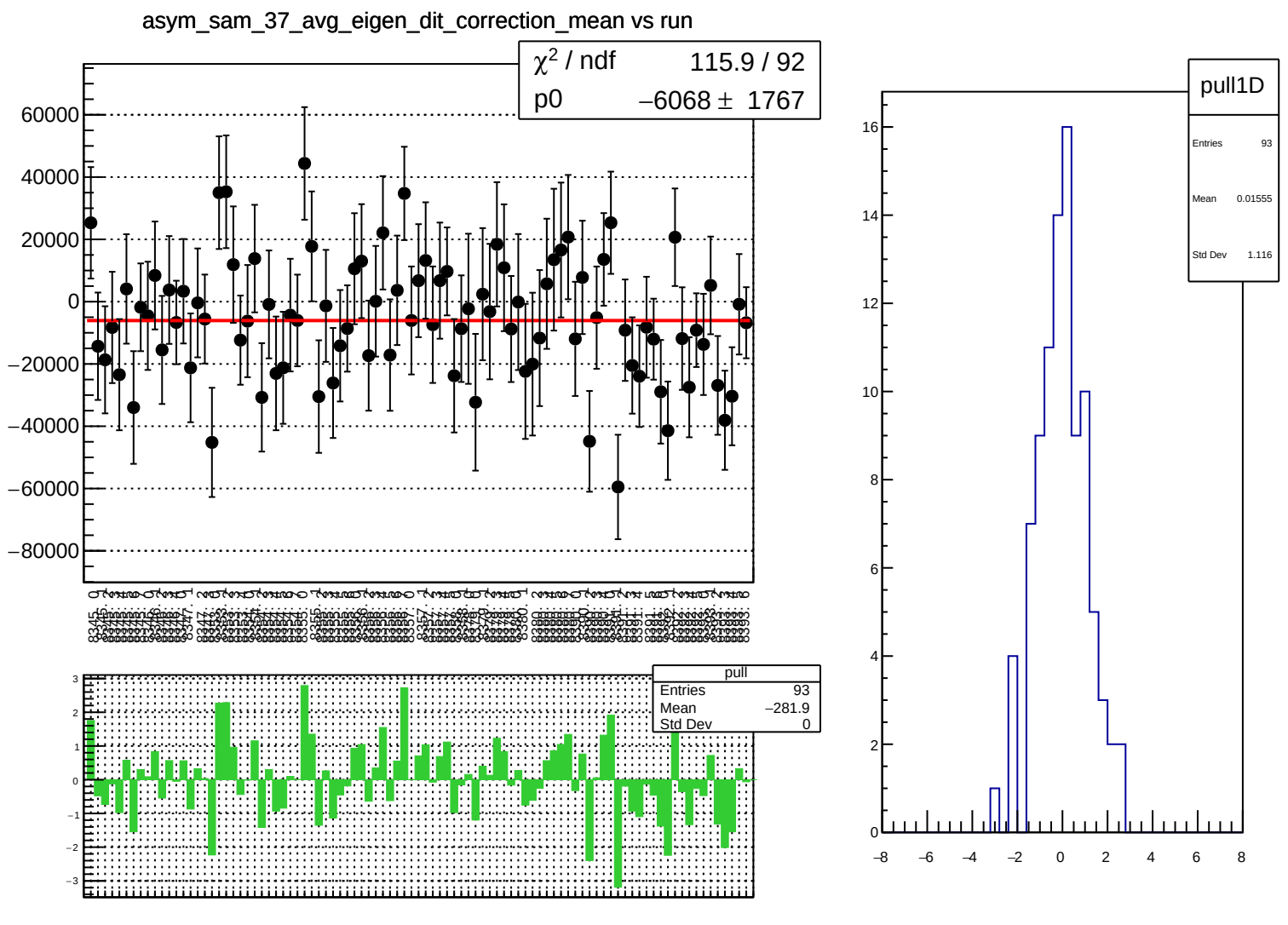

pull1D
Entries 93
Mean 0.01555
Std Dev 1.116
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

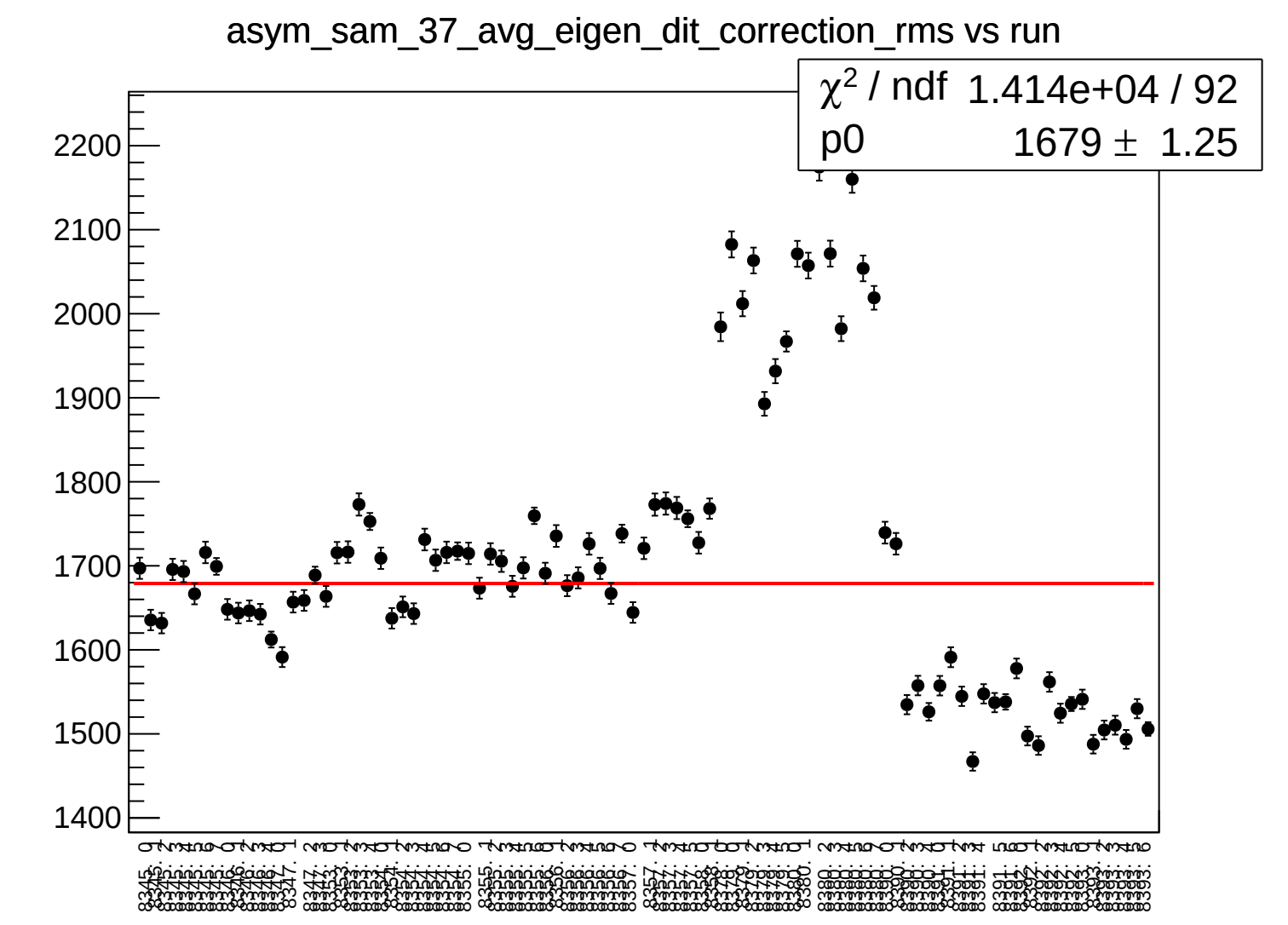

asym_sam_37_avg_dit_correction_rms vs run
χ² / ndf 1.414e+04 / 92
p0 1679 ± 1.25
2200
2100
2000
1900
1800
1700
1600
1500
1400

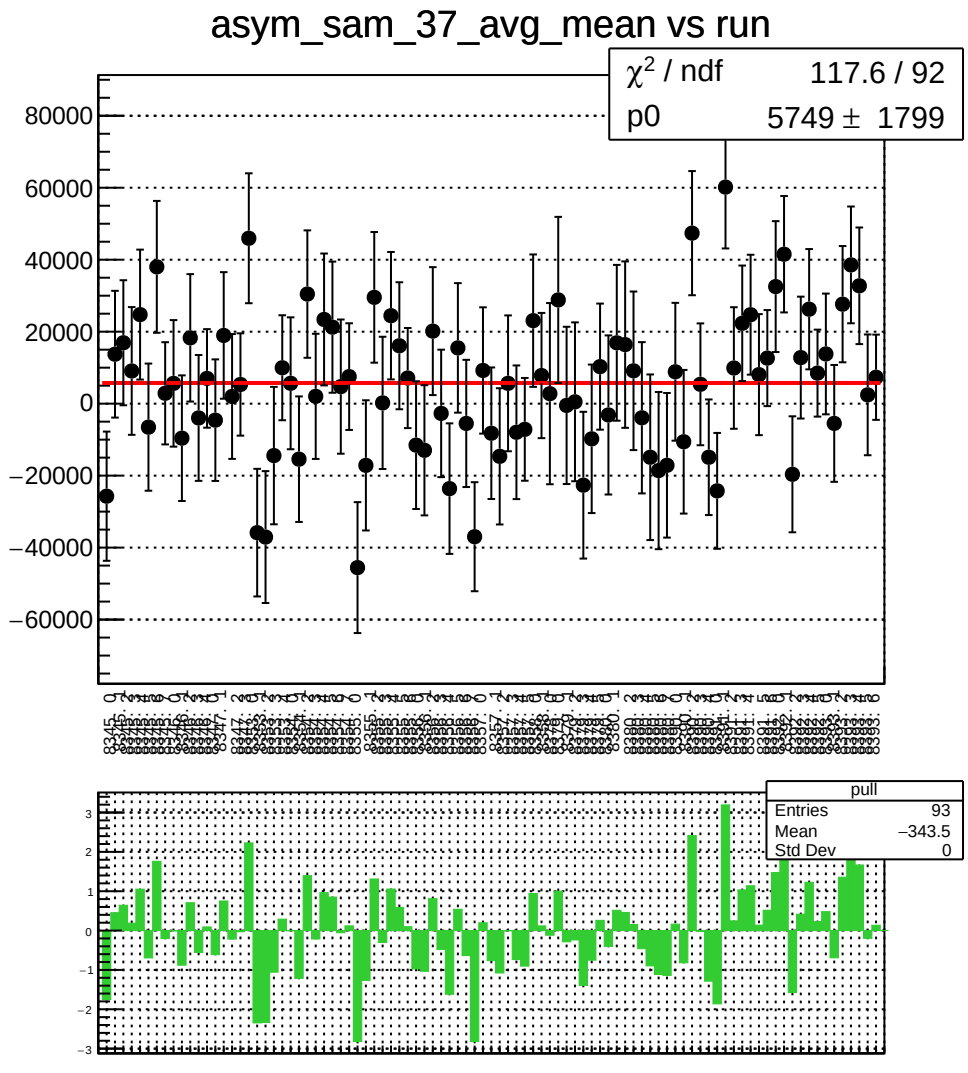

eigen_dit_asym_sam_37_avg_mean vs run
χ² / ndf 110.6 / 92
p0 −140.5 ± 160.8
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 93
Mean −38.35
Std Dev 0
2
1
0
−1
−2

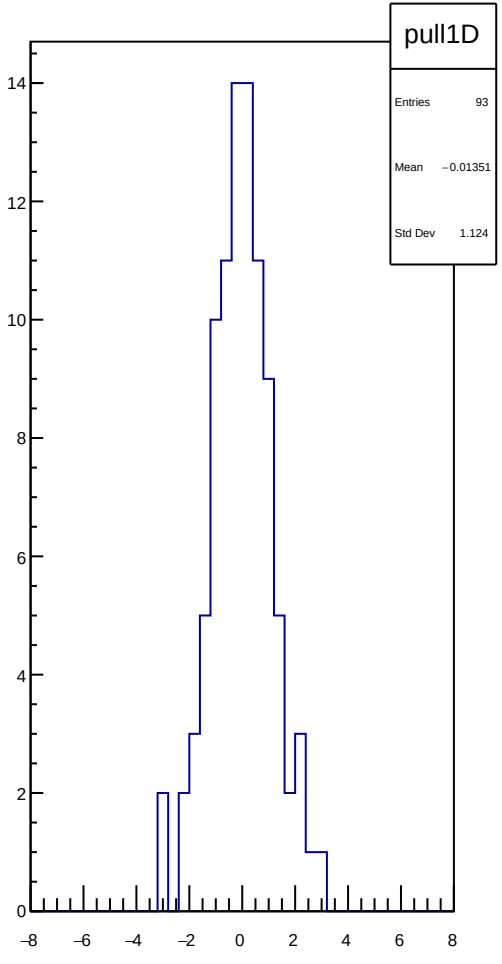

pull1D
Entries 93
Mean −0.03369
Std Dev 1.09
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

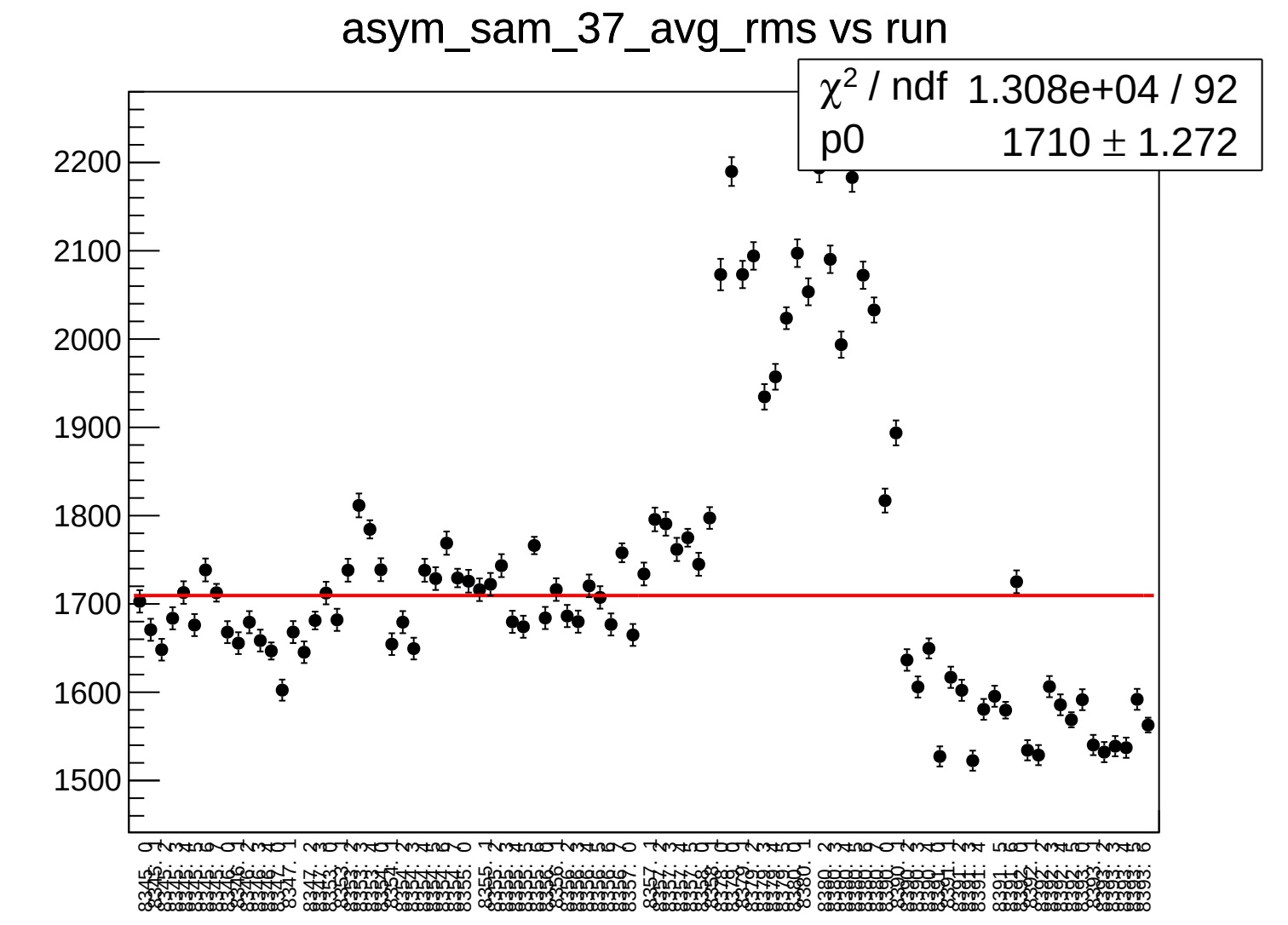

eigen_dit_asym_sam_37_avg_rms vs run
χ^2 / ndf 3.559e+04 / 92
p0 151.8 ± 0.1137
280
260
240
220
200
180
160
140
120

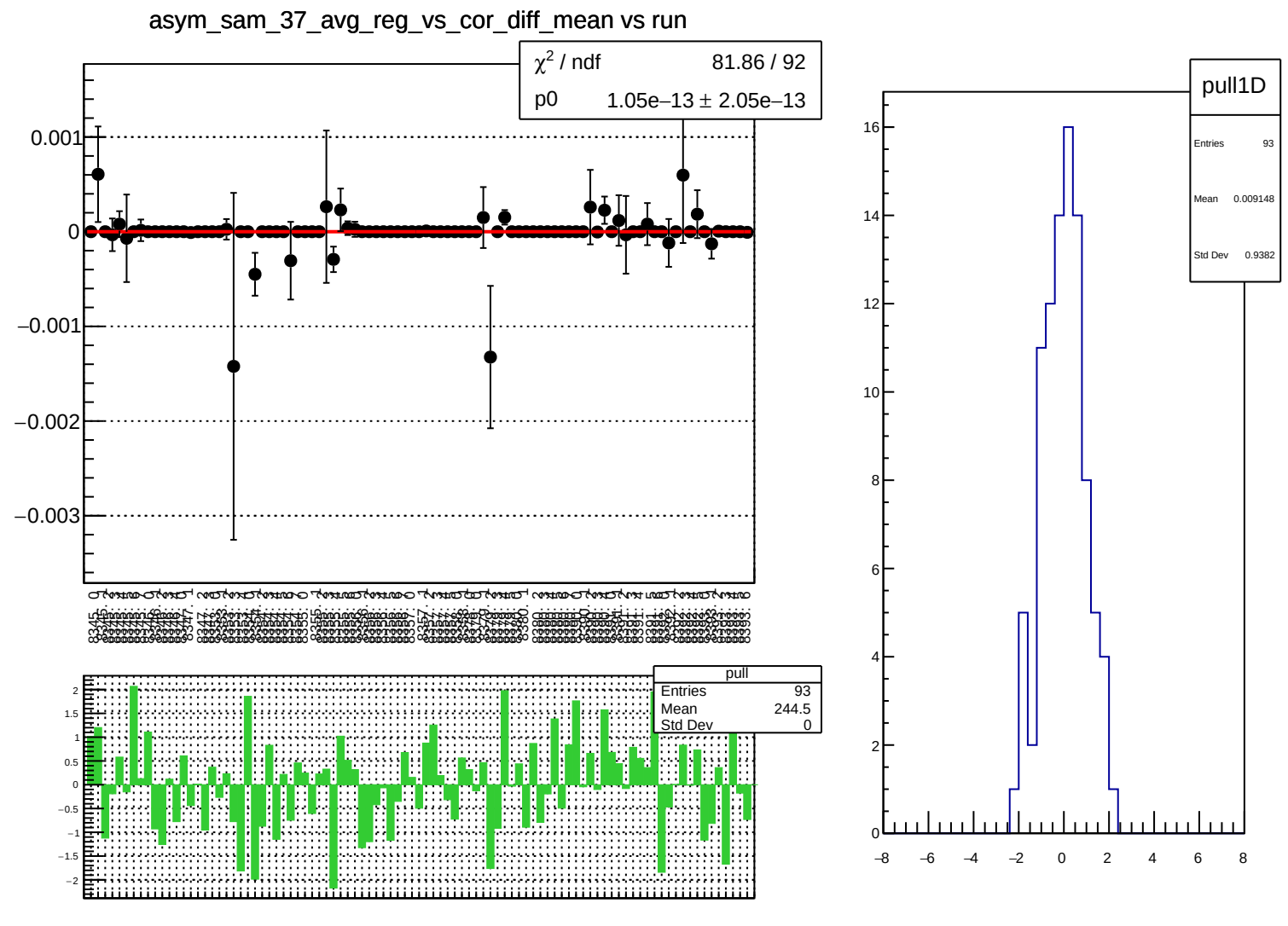

asym_sam_37_avg_eigen_dit_correction_mean vs run
χ² / ndf 115.9 / 92
p0 −6068 ± 1767
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean −281.9
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.01555
Std Dev 1.116
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

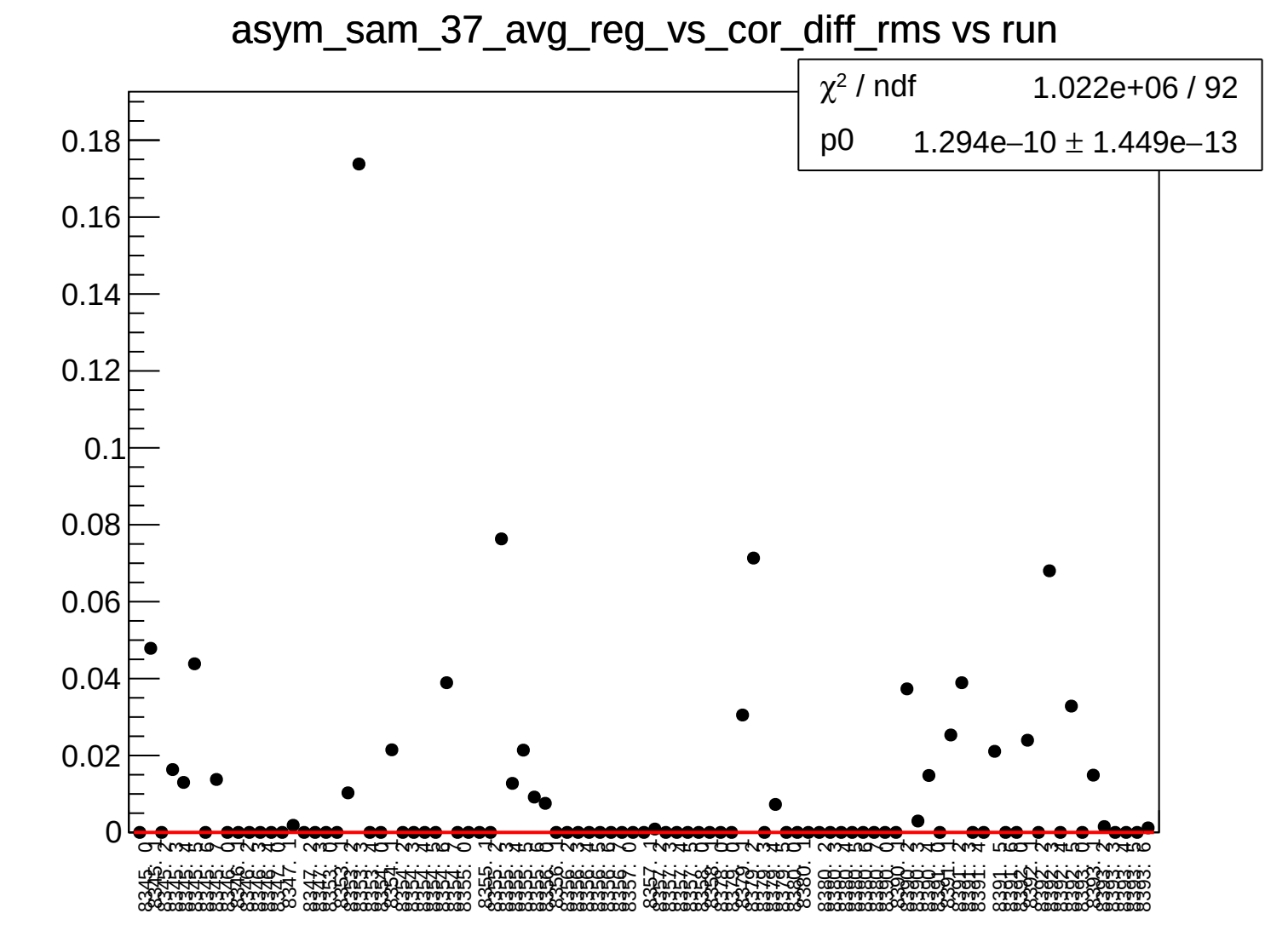

asym_sam_37_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.414e+04 / 92
p0 1679 ± 1.25
2200
2100
2000
1900
1800
1700
1600
1500
1400

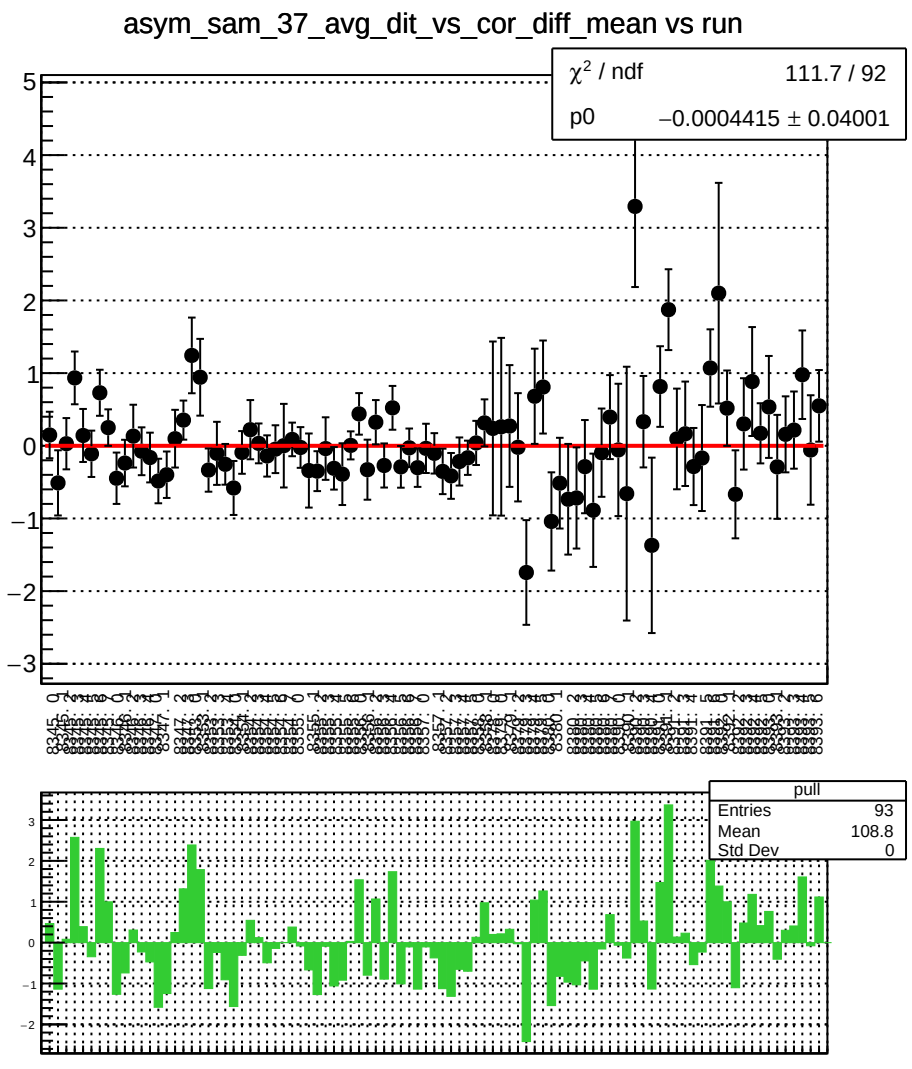

asym_sam_37_avg_mean vs run
χ² / ndf 117.6 / 92
p0 5749 ± 1799
pull
Entries 93
Mean −343.5
Std Dev 0

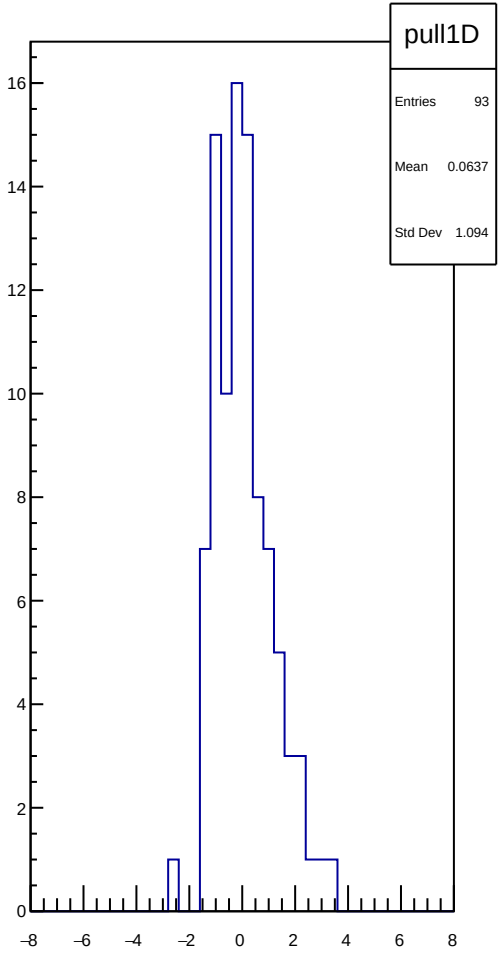

pull1D
Entries 93
Mean −0.01351
Std Dev 1.124

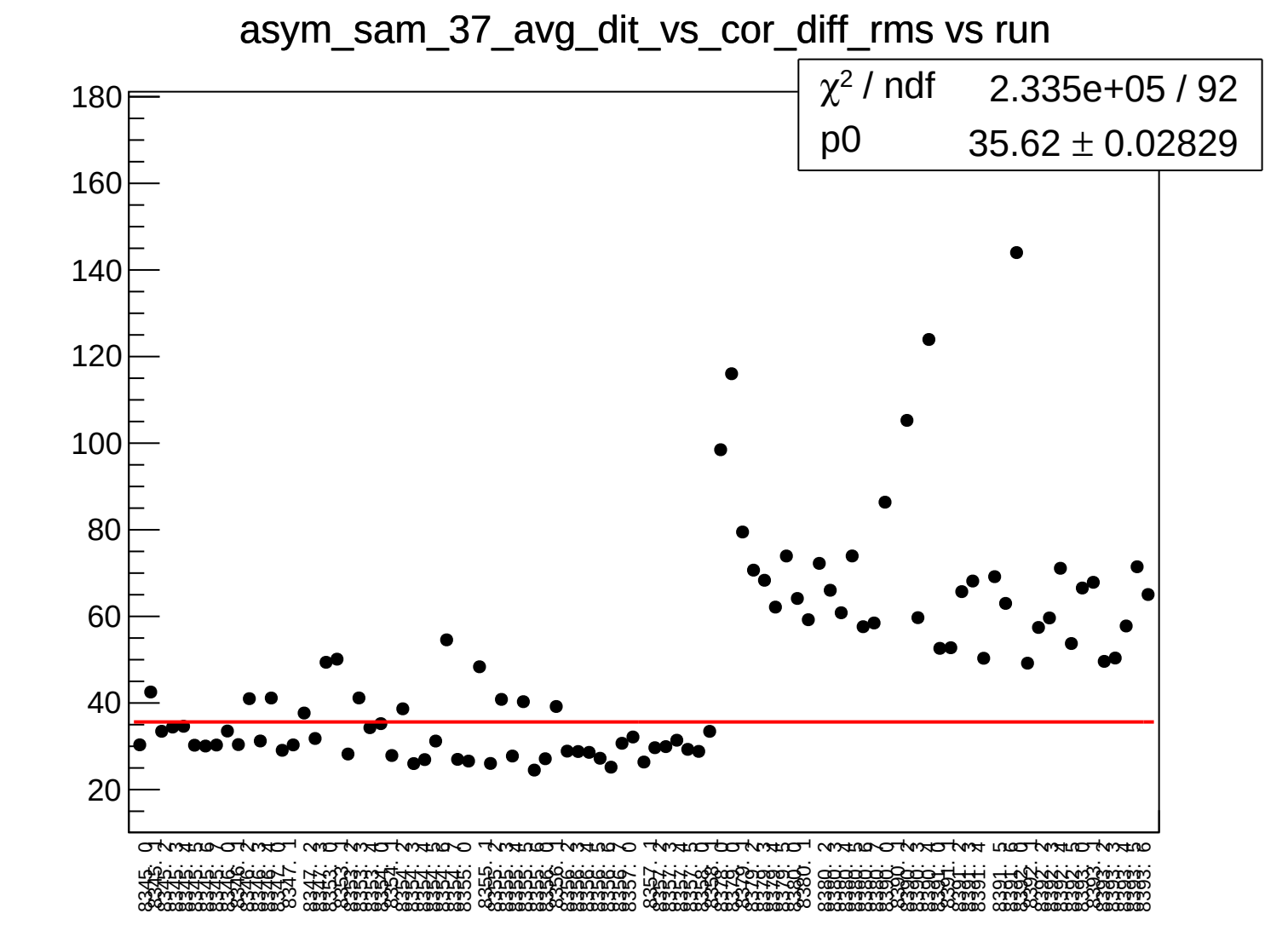

asym_sam_37_avg_rms vs run
χ² / ndf 1.308e+04 / 92
p0 1710 ± 1.272
2200
2100
2000
1900
1800
1700
1600
1500

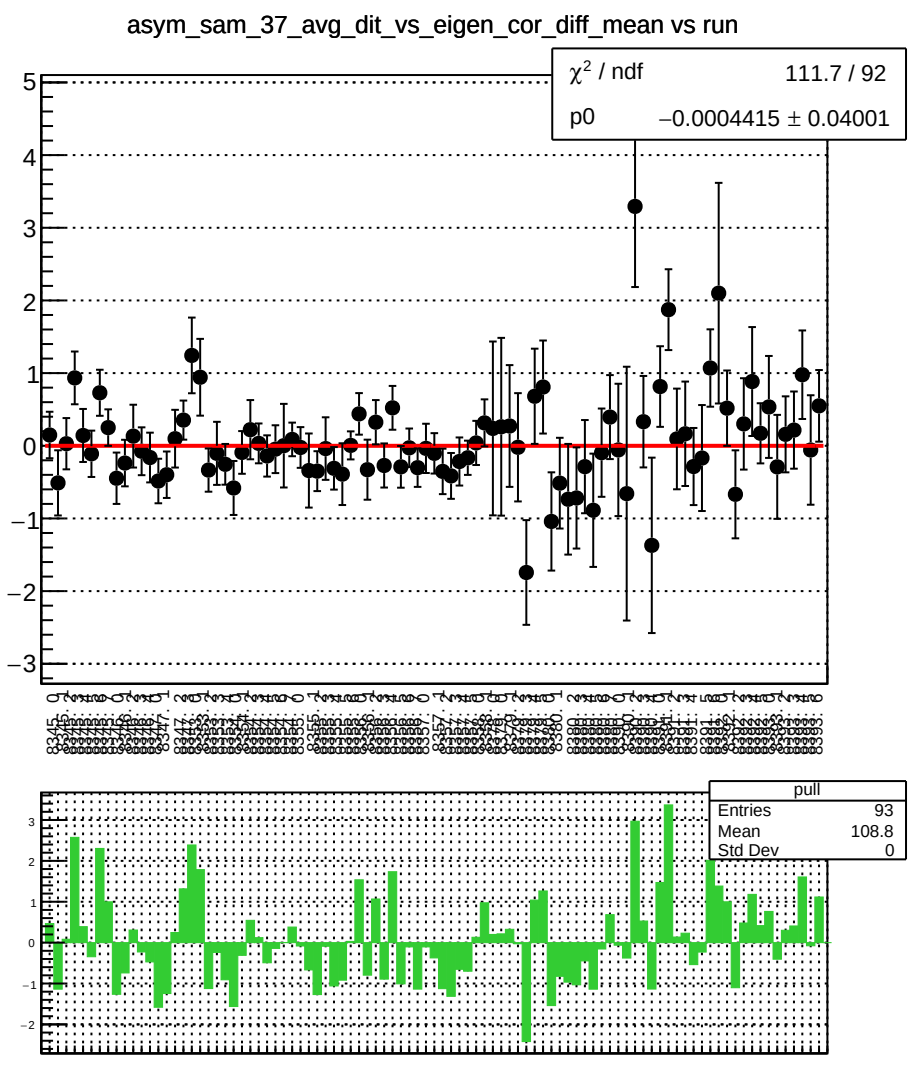

asym_sam_37_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 81.86 / 92
p0 1.05e−13 ± 2.05e−13
0.001
0
−0.001
−0.002
−0.003
pull
Entries 93
Mean 244.5
Std Dev 0
pull1D
Entries 93
Mean 0.009148
Std Dev 0.9382

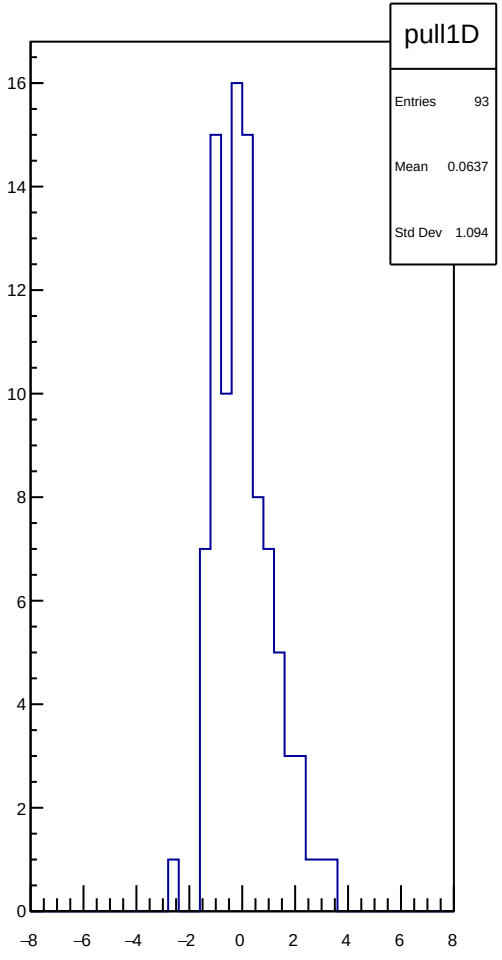

asym_sam_37_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.022e+06 / 92
p0 1.294e−10 ± 1.449e−13
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

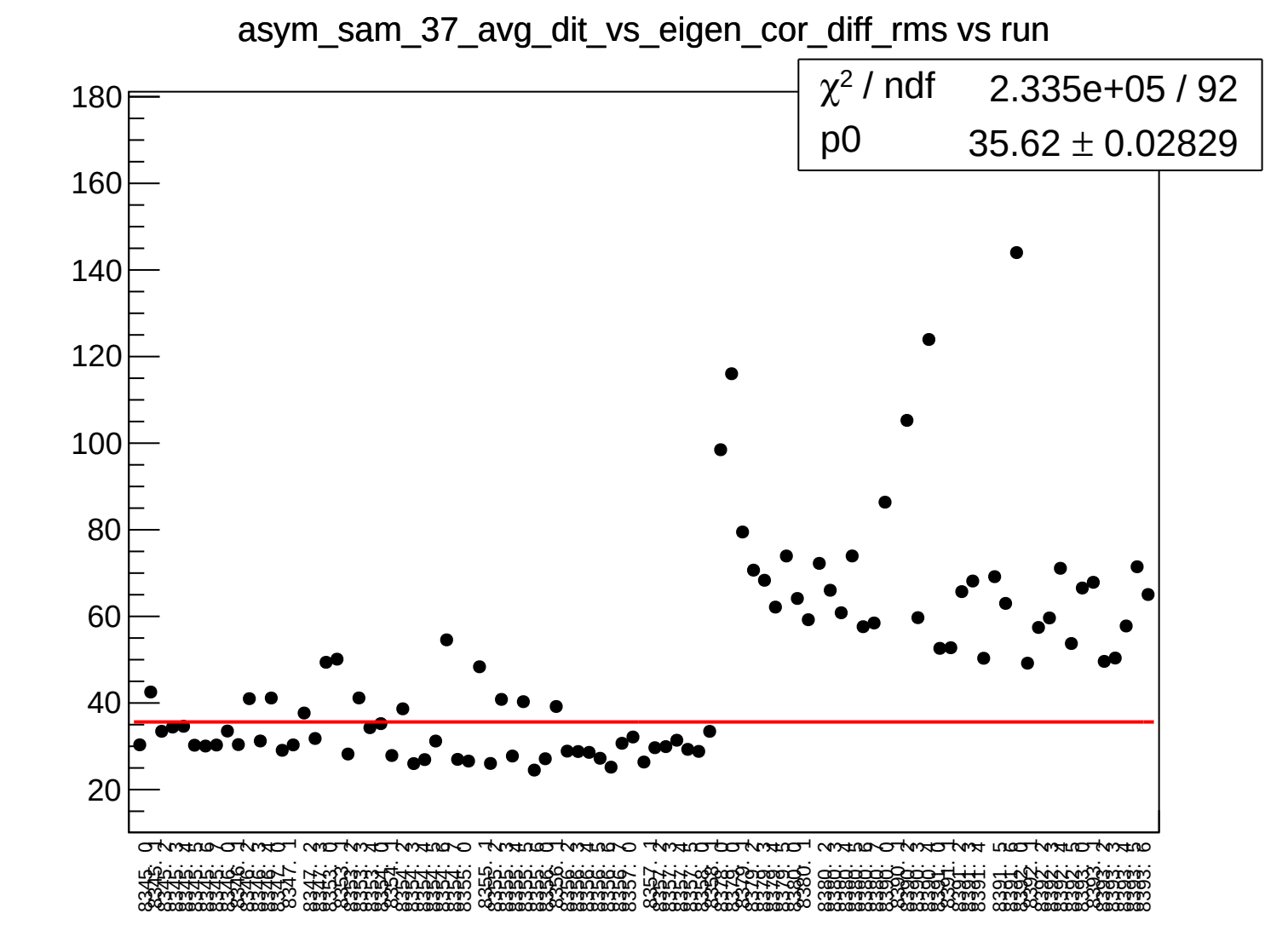

asym_sam_37_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 111.7 / 92
p0 −0.0004415 ± 0.04001
pull
Entries 93
Mean 108.8
Std Dev 0

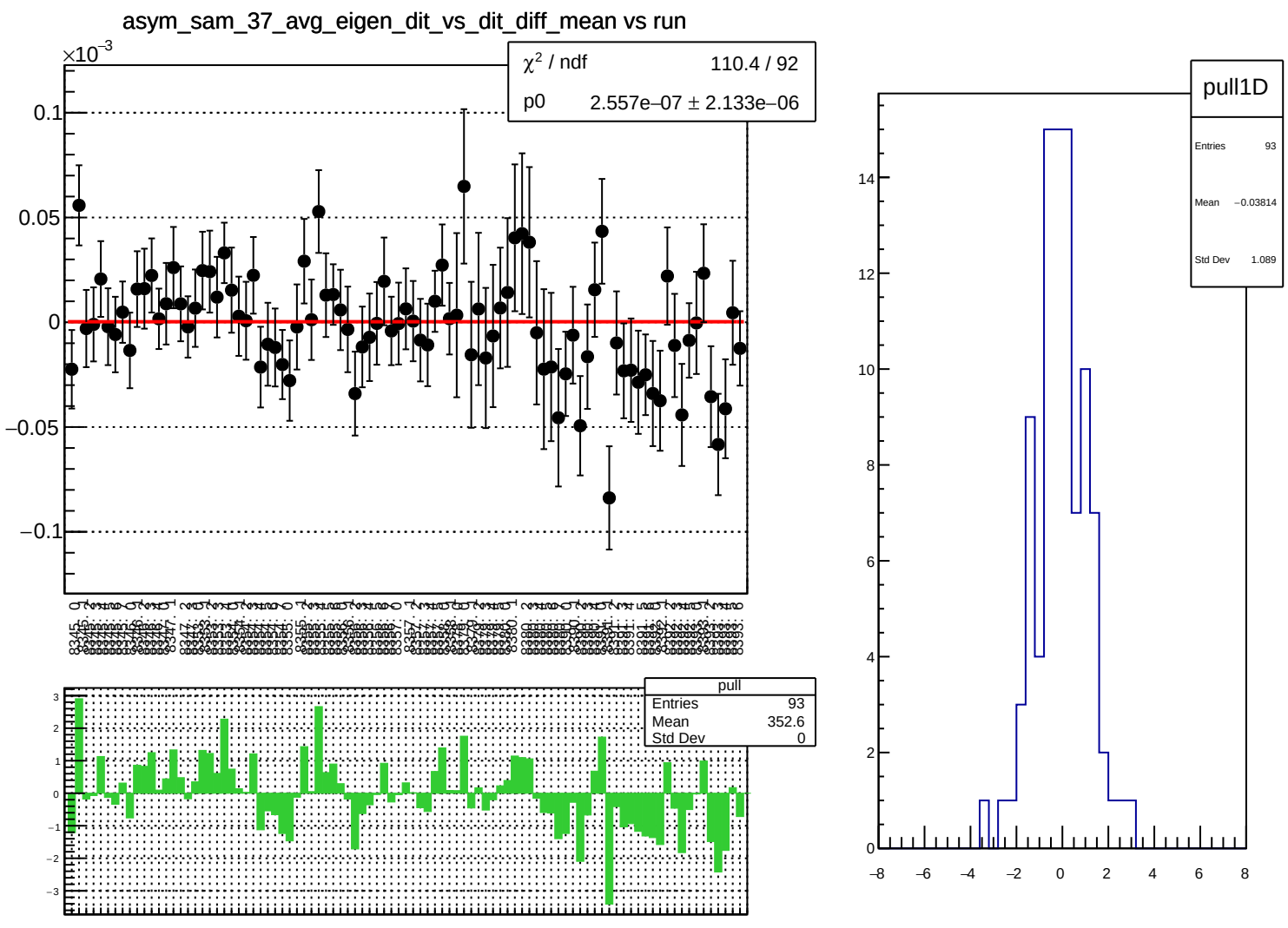

pull1D
Entries 93
Mean 0.0637
Std Dev 1.094

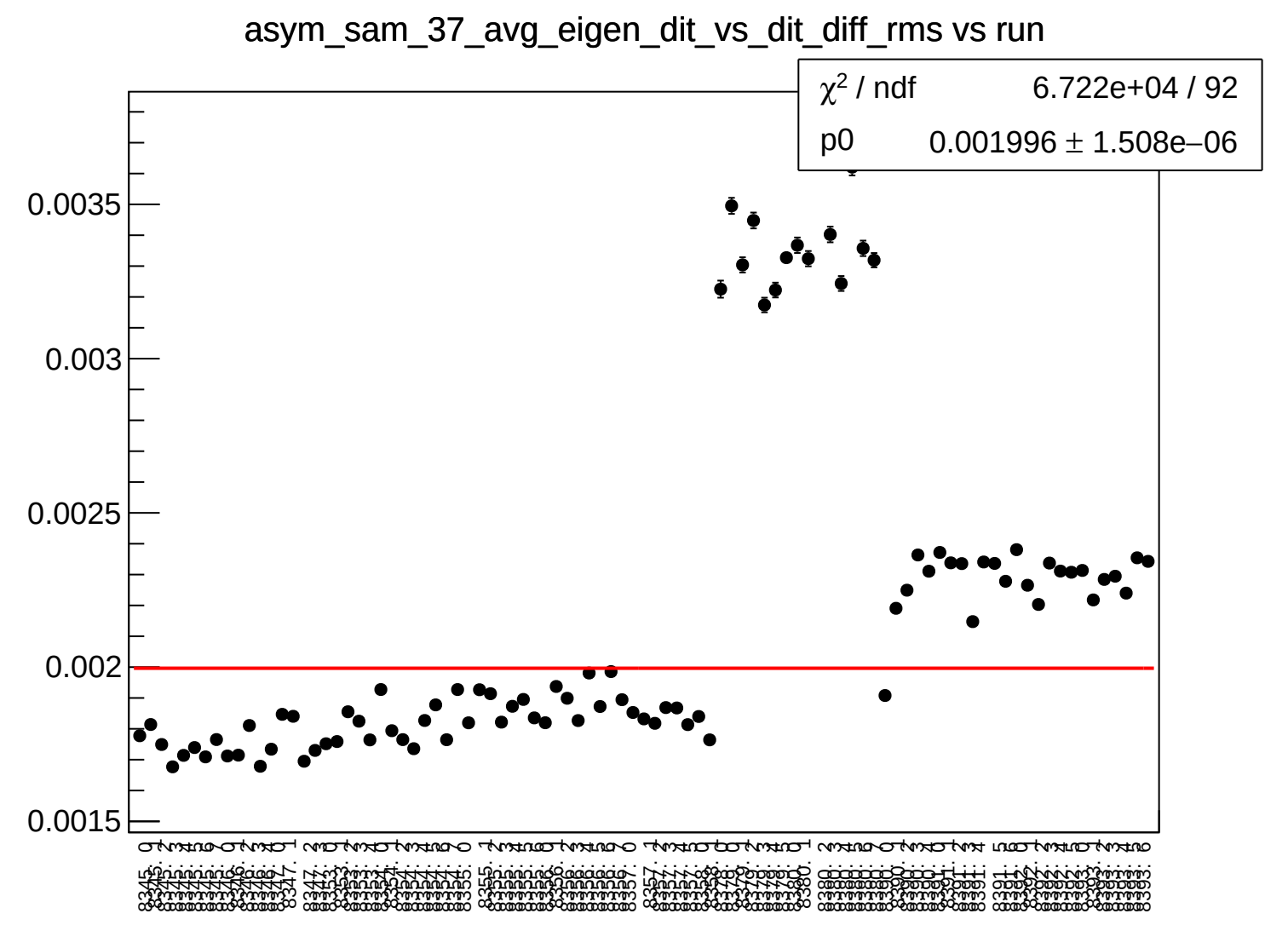

asym_sam_37_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.335e+05 / 92
p0 35.62 ± 0.02829
180
160
140
120
100
80
60
40
20

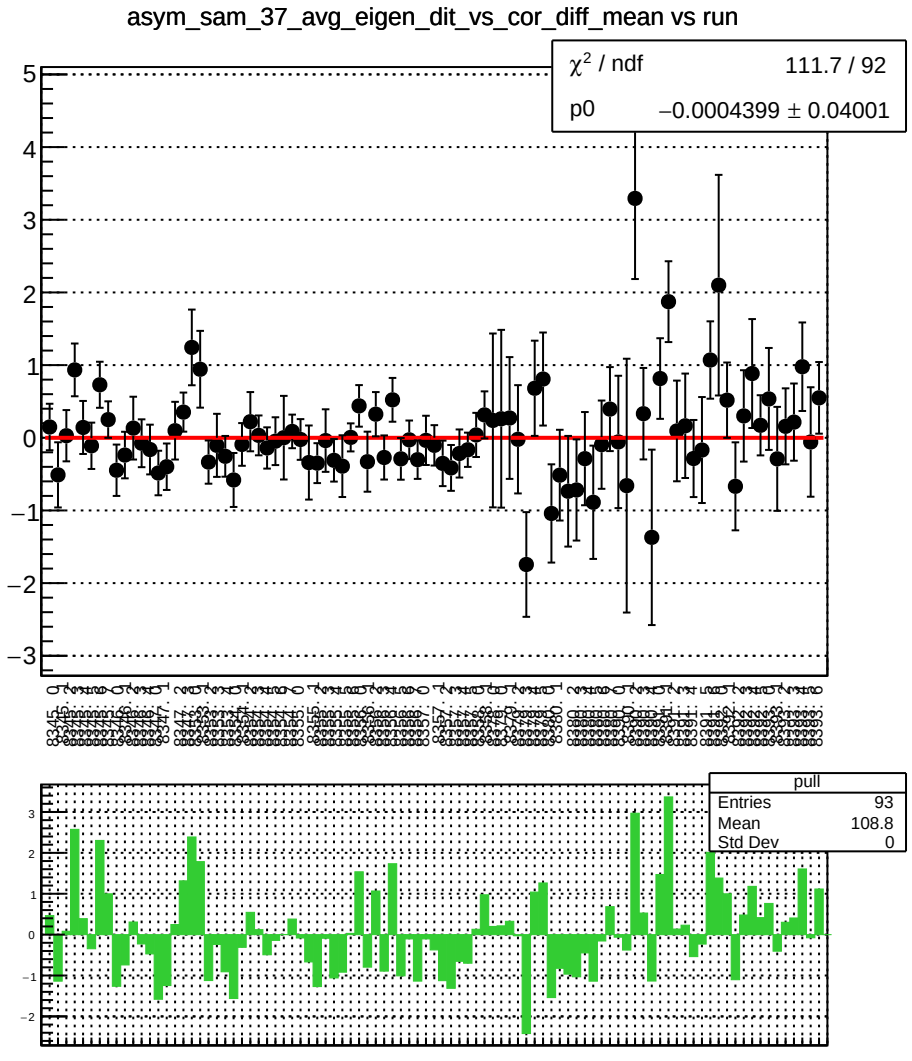

asym_sam_37_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 111.7 / 92
p0 −0.0004415 ± 0.04001
pull
Entries 93
Mean 108.8
Std Dev 0

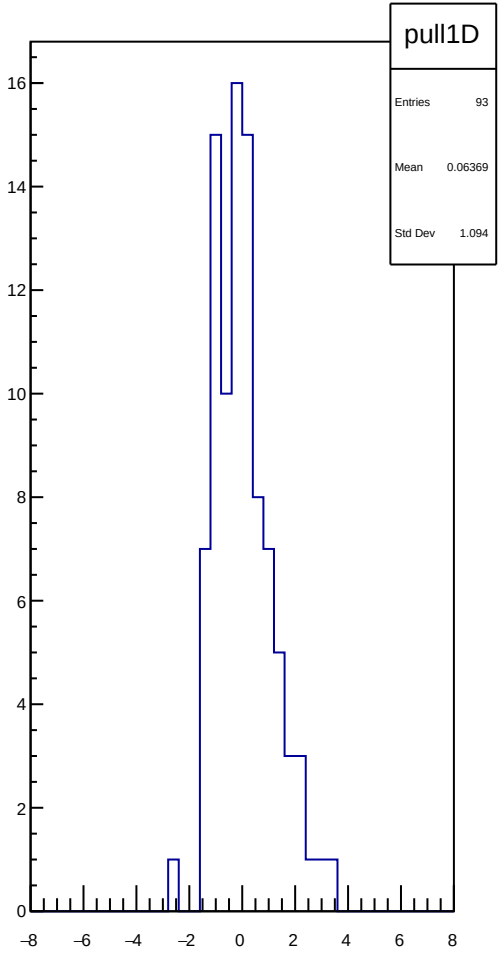

pull1D
Entries 93
Mean 0.0637
Std Dev 1.094

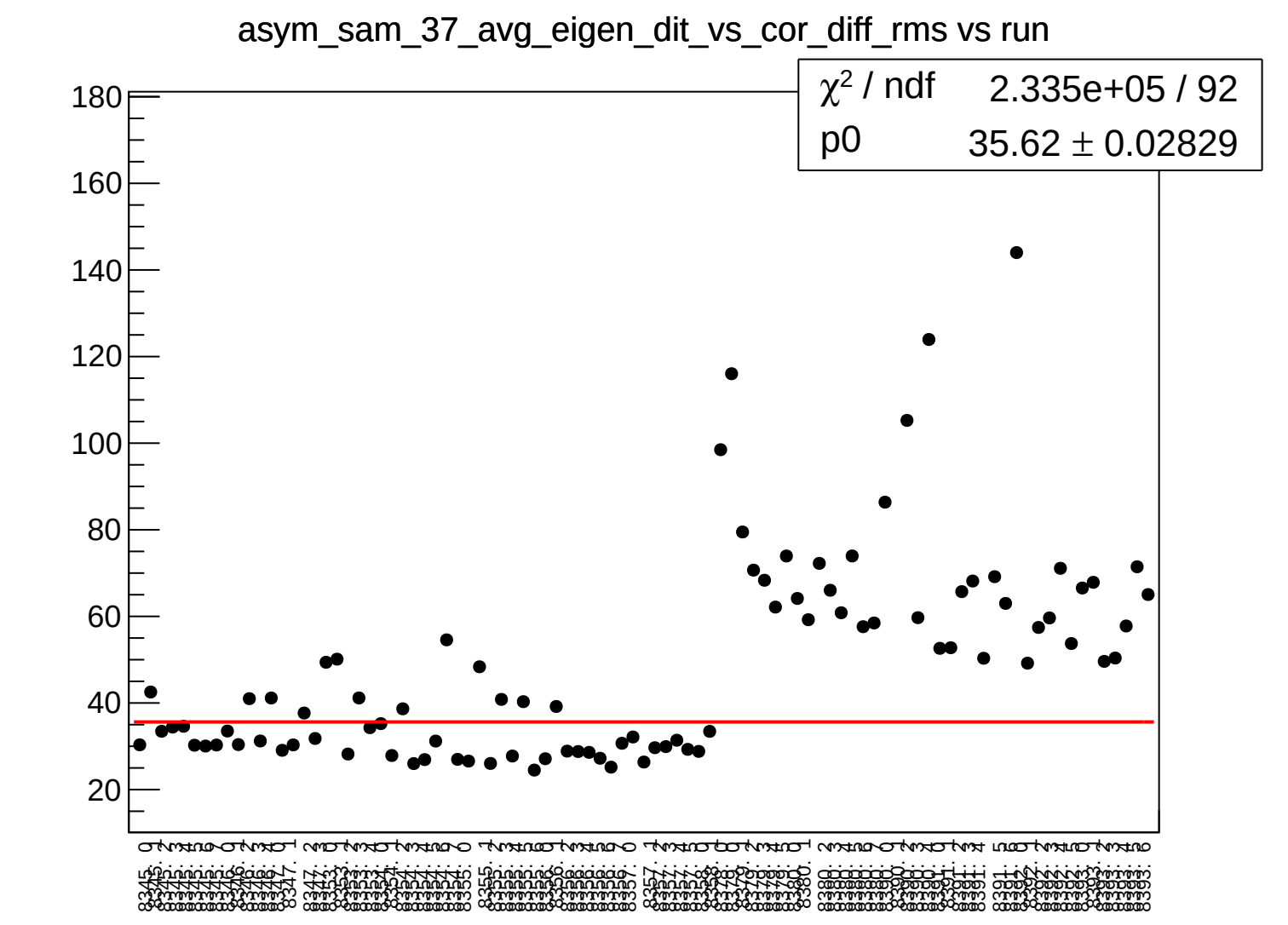

asym_sam_37_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.335e+05 / 92
p0 35.62 ± 0.02829
180
160
140
120
100
80
60
40
20

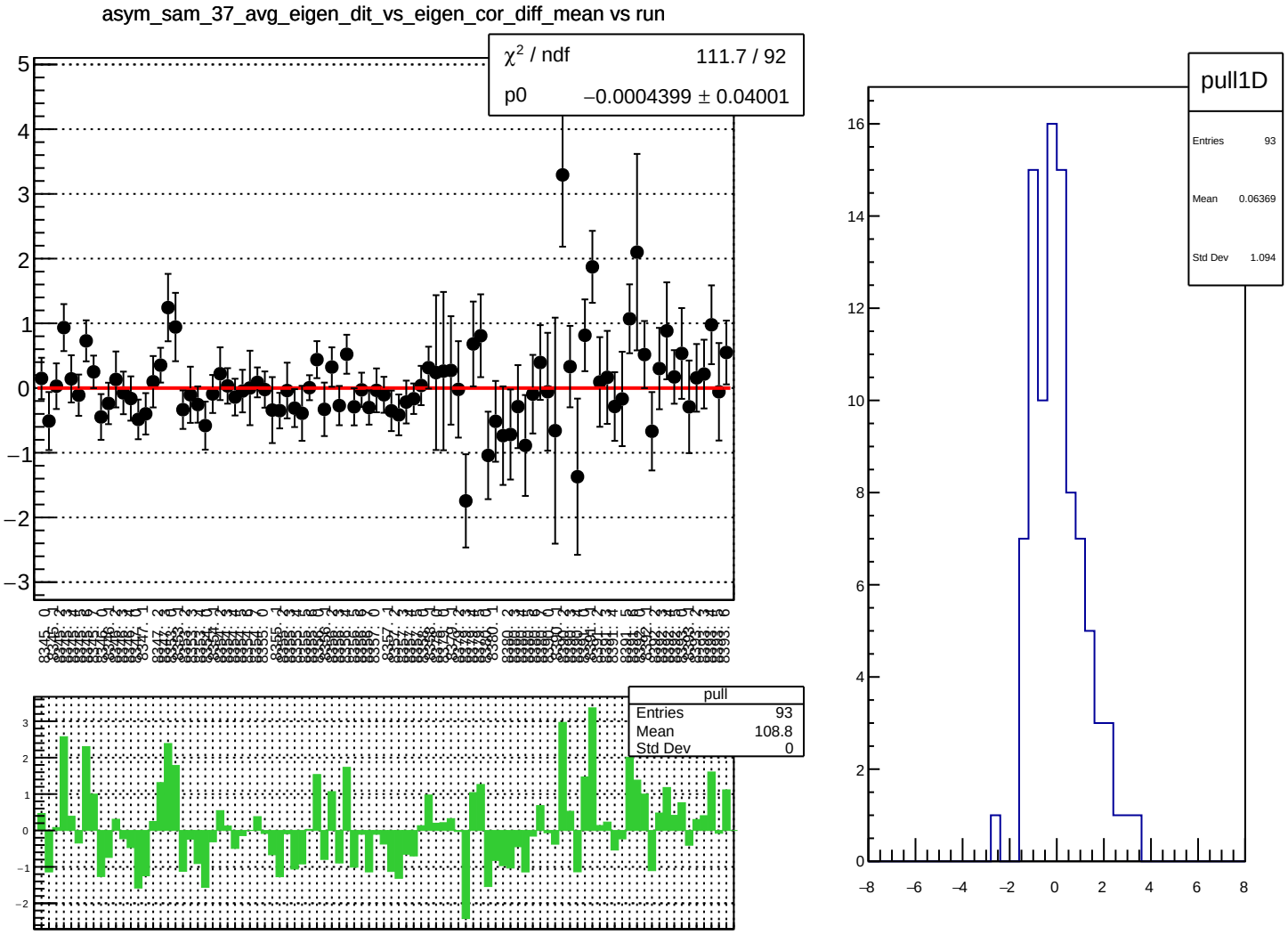

asym_sam_37_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 110.4 / 92
p0 2.557e−07 ± 2.133e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 93
Mean 352.6
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.03814
Std Dev 1.089
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

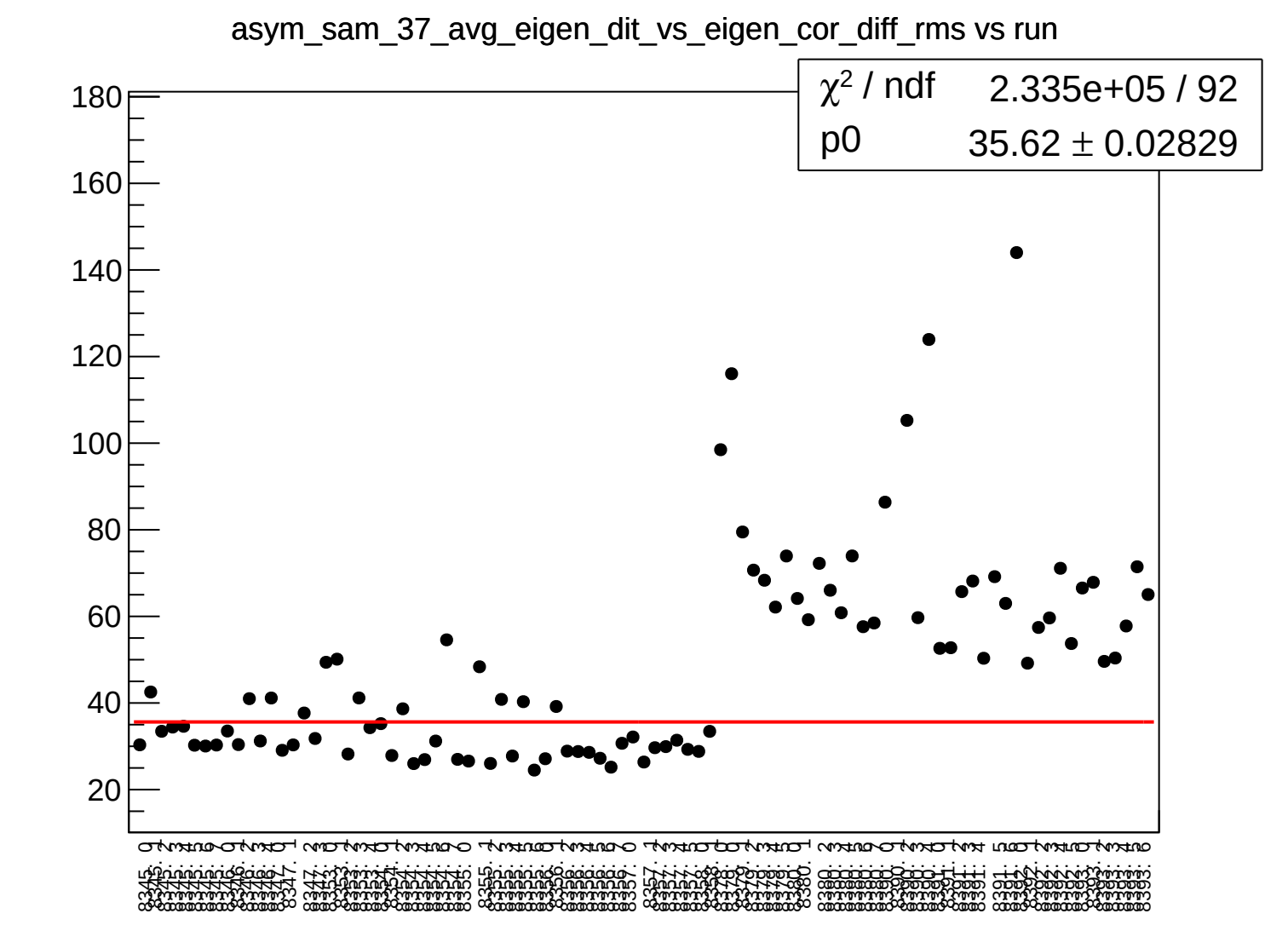

asym_sam_37_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.722e+04 / 92
p0 0.001996 ± 1.508e−06
0.0035
0.003
0.0025
0.002
0.0015

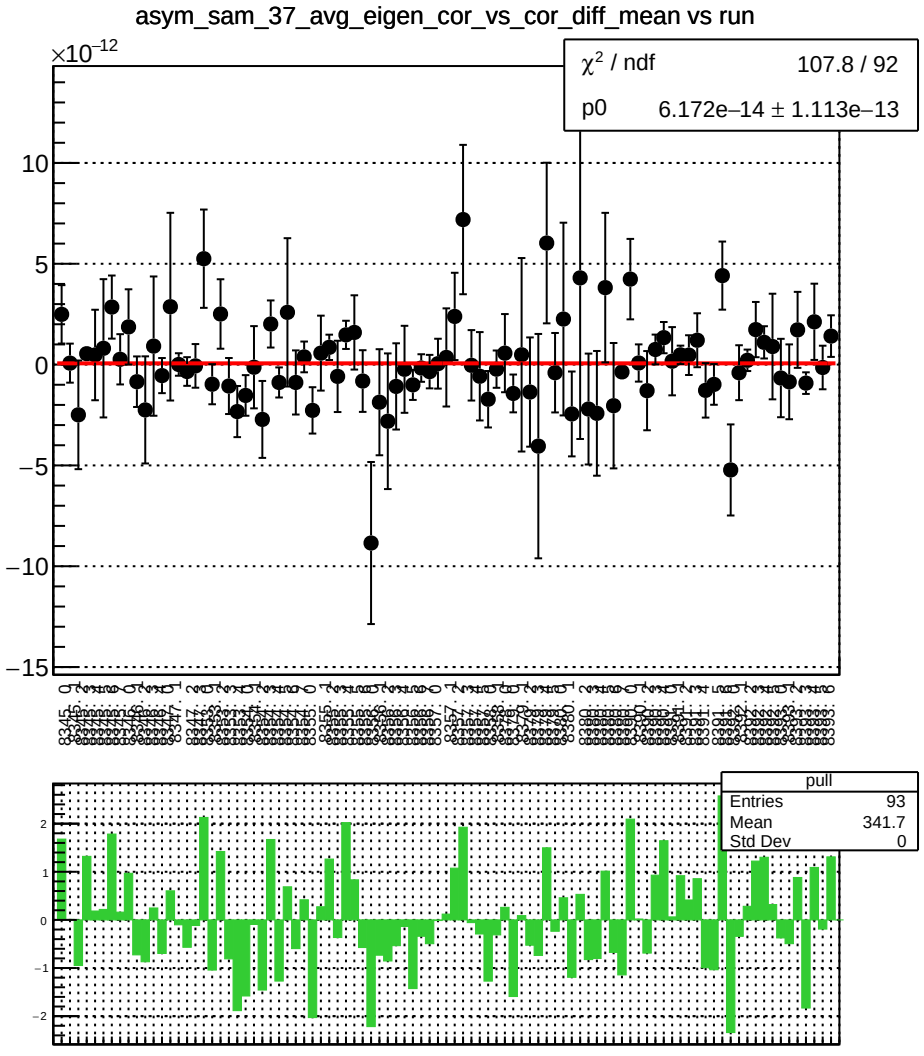

asym_sam_37_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 111.7 / 92
p0 −0.0004399 ± 0.04001
pull
Entries 93
Mean 108.8
Std Dev 0

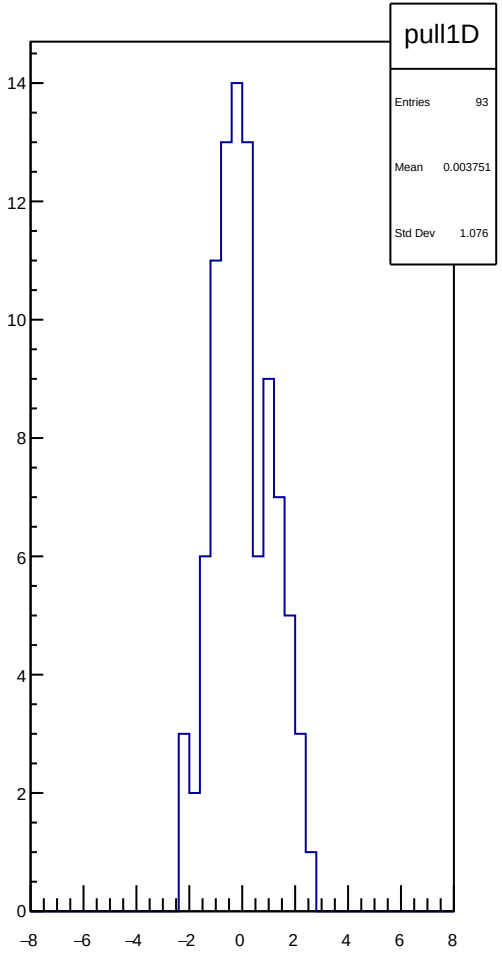

pull1D
Entries 93
Mean 0.06369
Std Dev 1.094

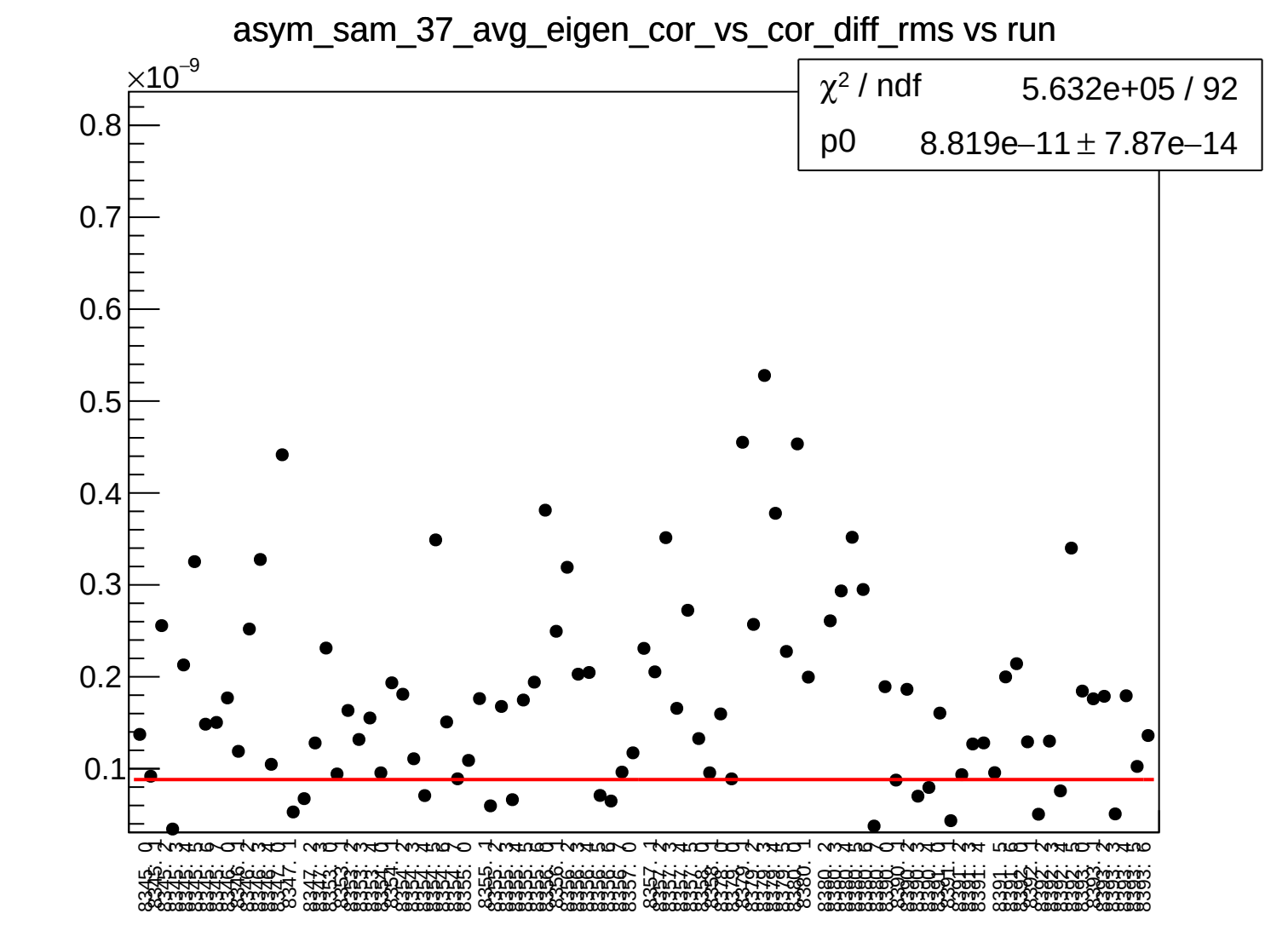

asym_sam_37_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.335e+05 / 92
p0 35.62 ± 0.02829
180
160
140
120
100
80
60
40
20

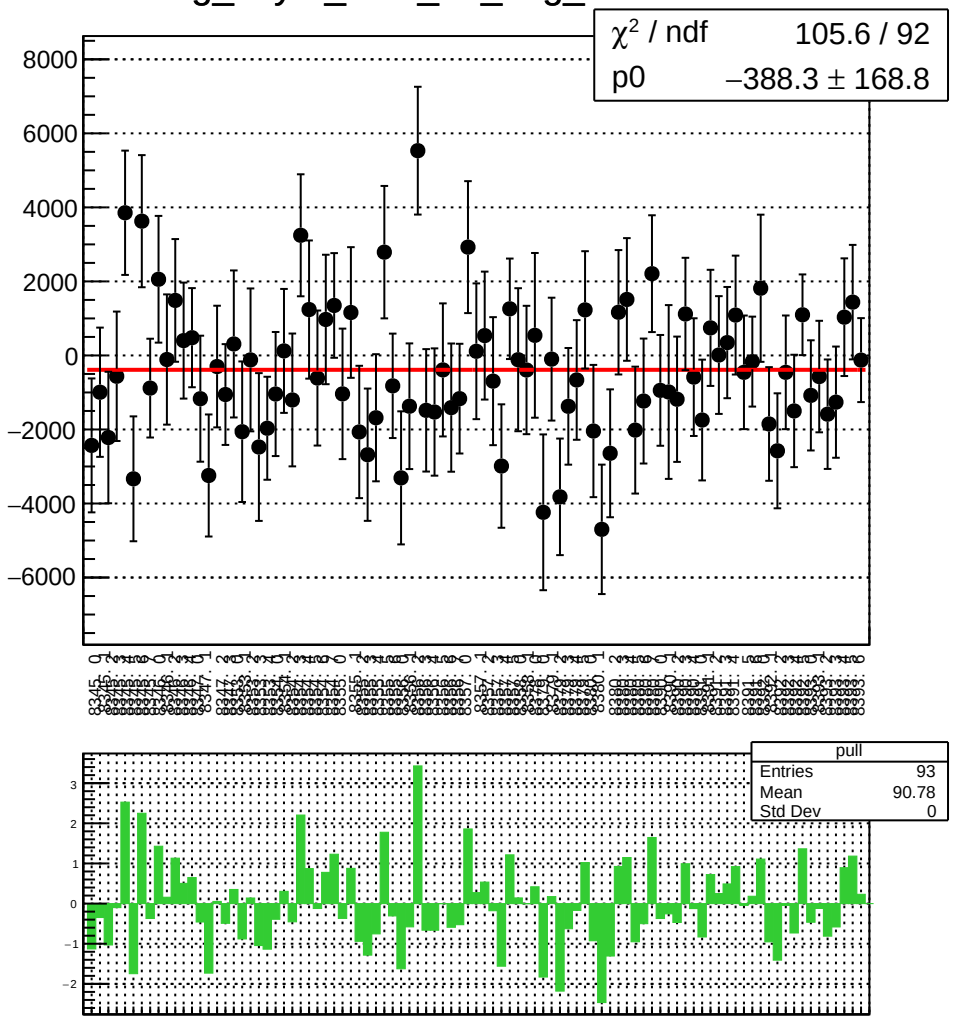

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 111.7 / 92
p0 −0.0004399 ± 0.04001
pull
Entries 93
Mean 108.8
Std Dev 0
pull1D
Entries 93
Mean 0.06369
Std Dev 1.094

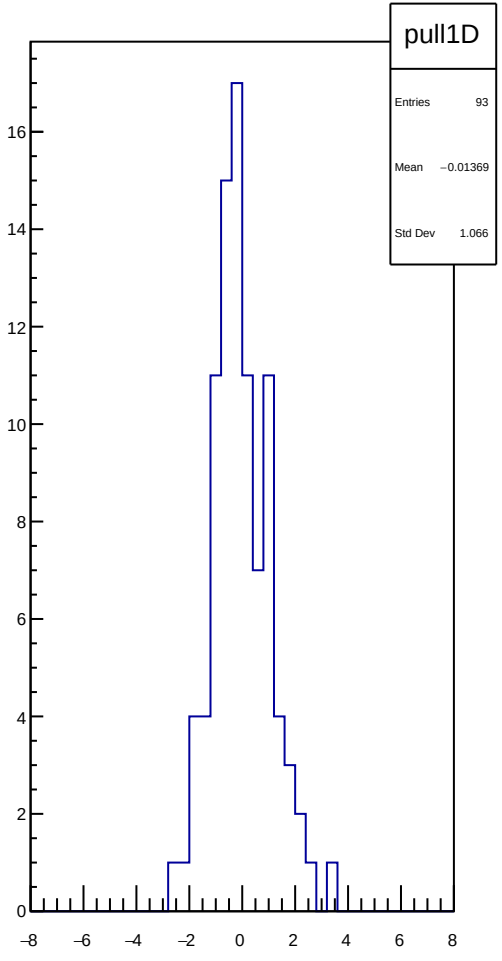

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.335e+05 / 92
p0 35.62 ± 0.02829
180
160
140
120
100
80
60
40
20

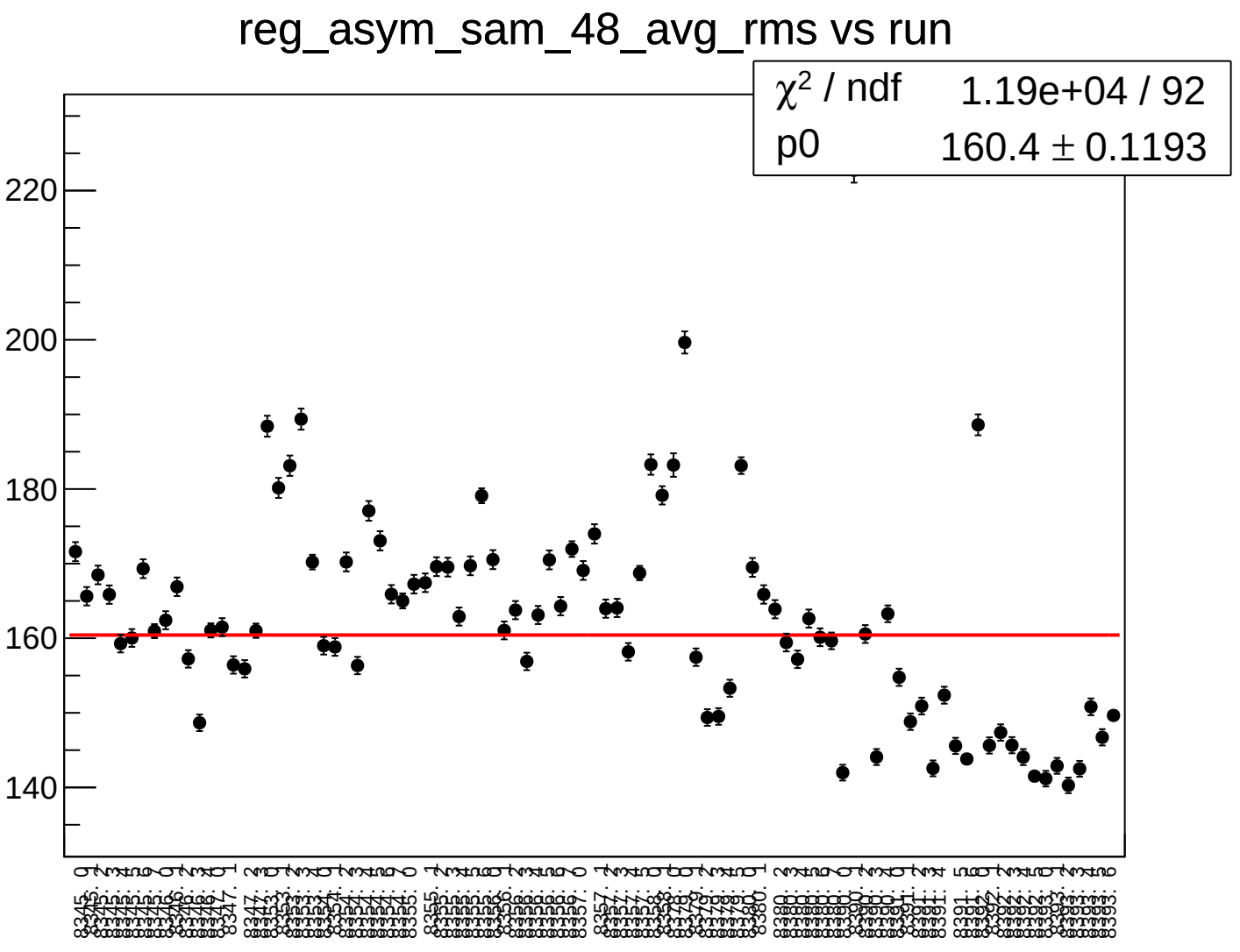

asym_sam_37_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 107.8 / 92
p0 6.172e−14 ± 1.113e−13
pull
Entries 93
Mean 341.7
Std Dev 0

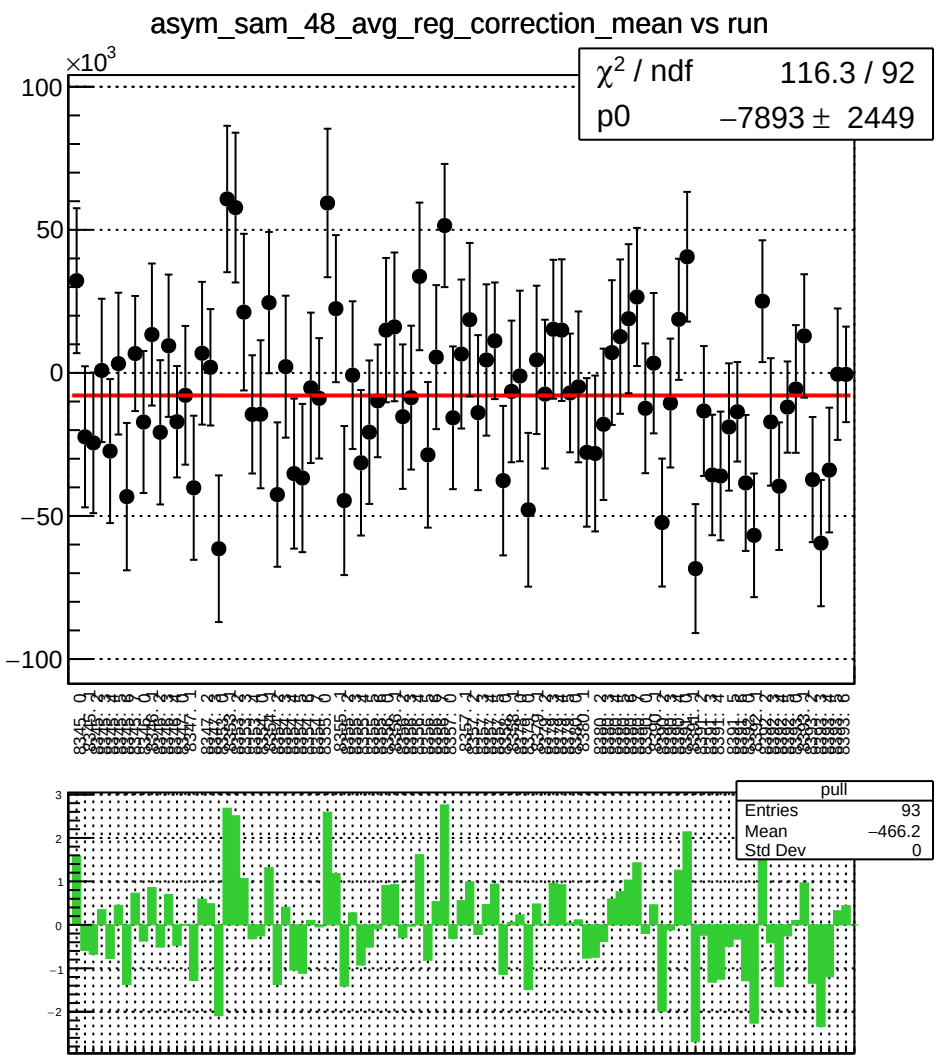

pull1D
Entries 93
Mean 0.003751
Std Dev 1.076

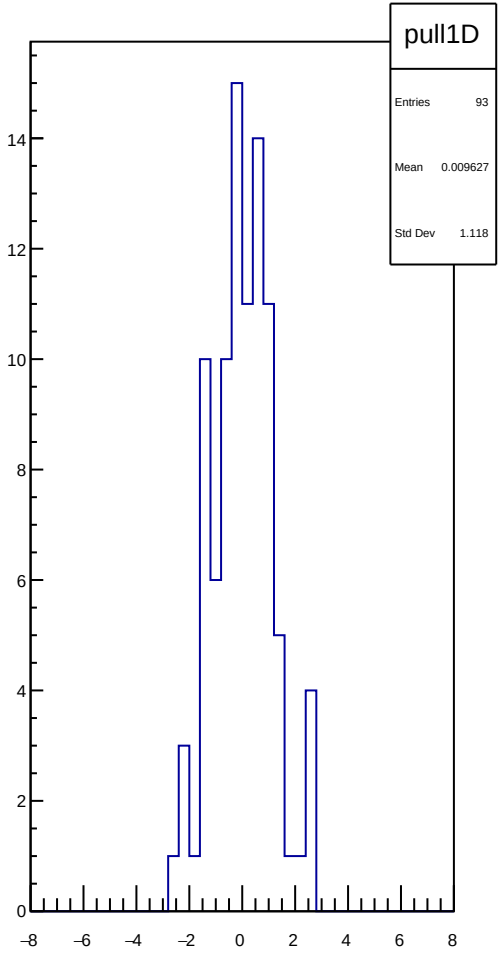

asym_sam_37_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.632e+05 / 92
p0 8.819e−11 ± 7.87e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

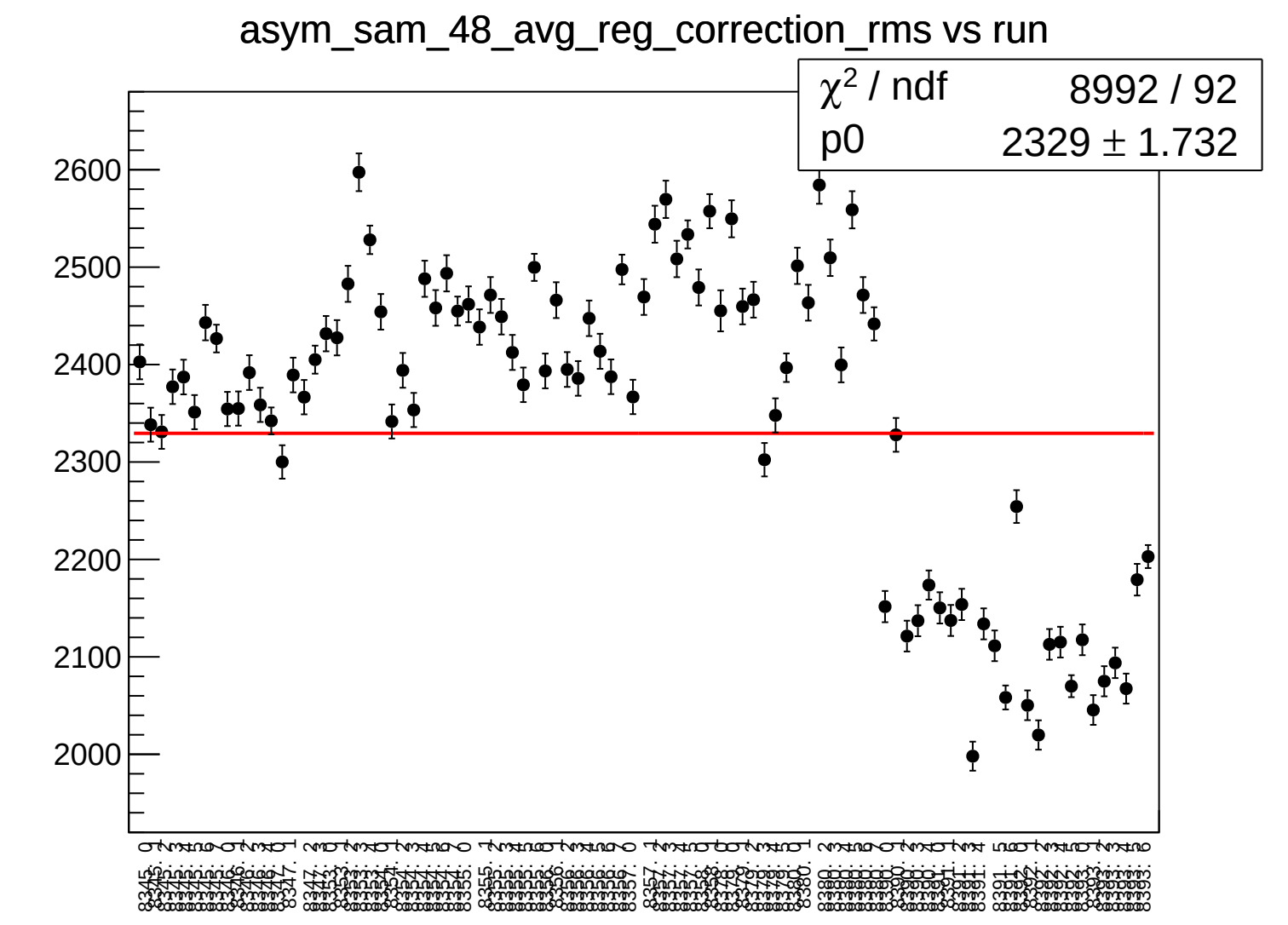

reg_asym_sam_48_avg_mean vs run
χ² / ndf 105.6 / 92
p0 −388.3 ± 168.8
pull
Entries 93
Mean 90.78
Std Dev 0

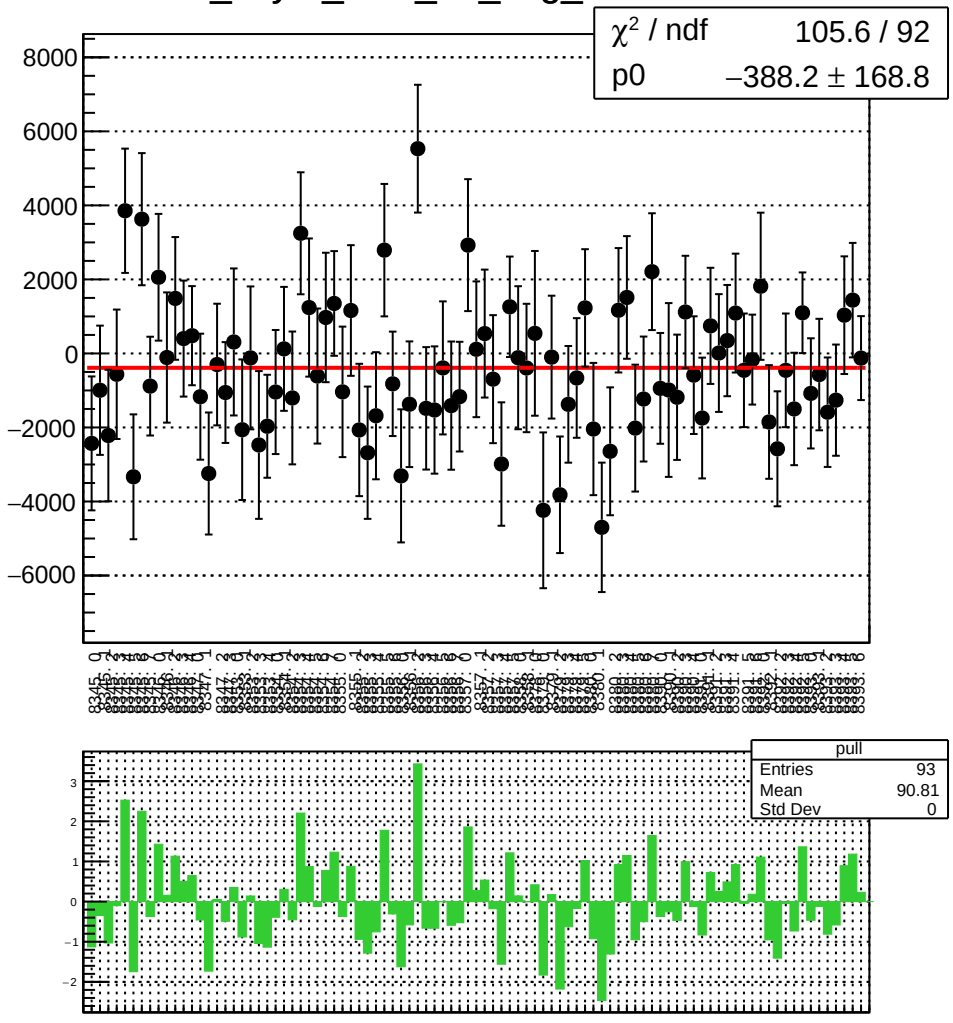

pull1D
Entries 93
Mean −0.01369
Std Dev 1.066

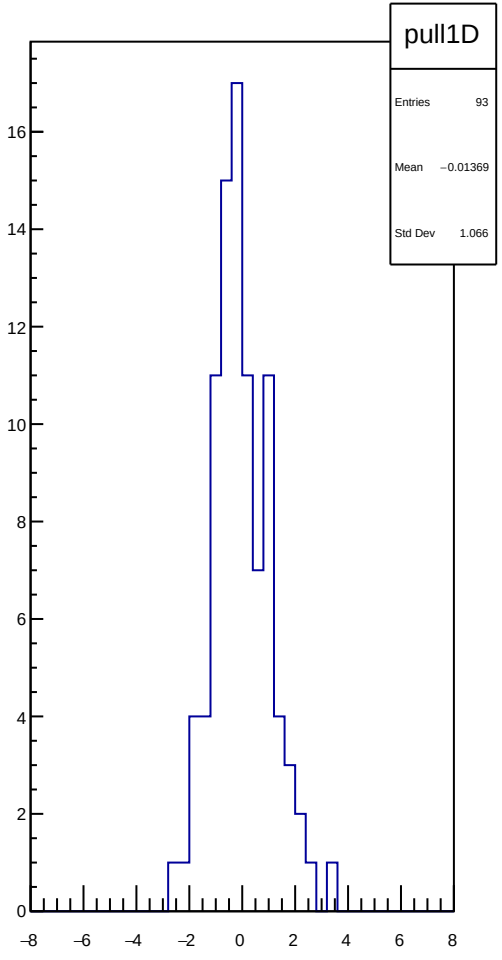

reg_asym_sam_48_avg_rms vs run
χ^2 / ndf 1.19e+04 / 92
p0 160.4 ± 0.1193
220
200
180
160
140

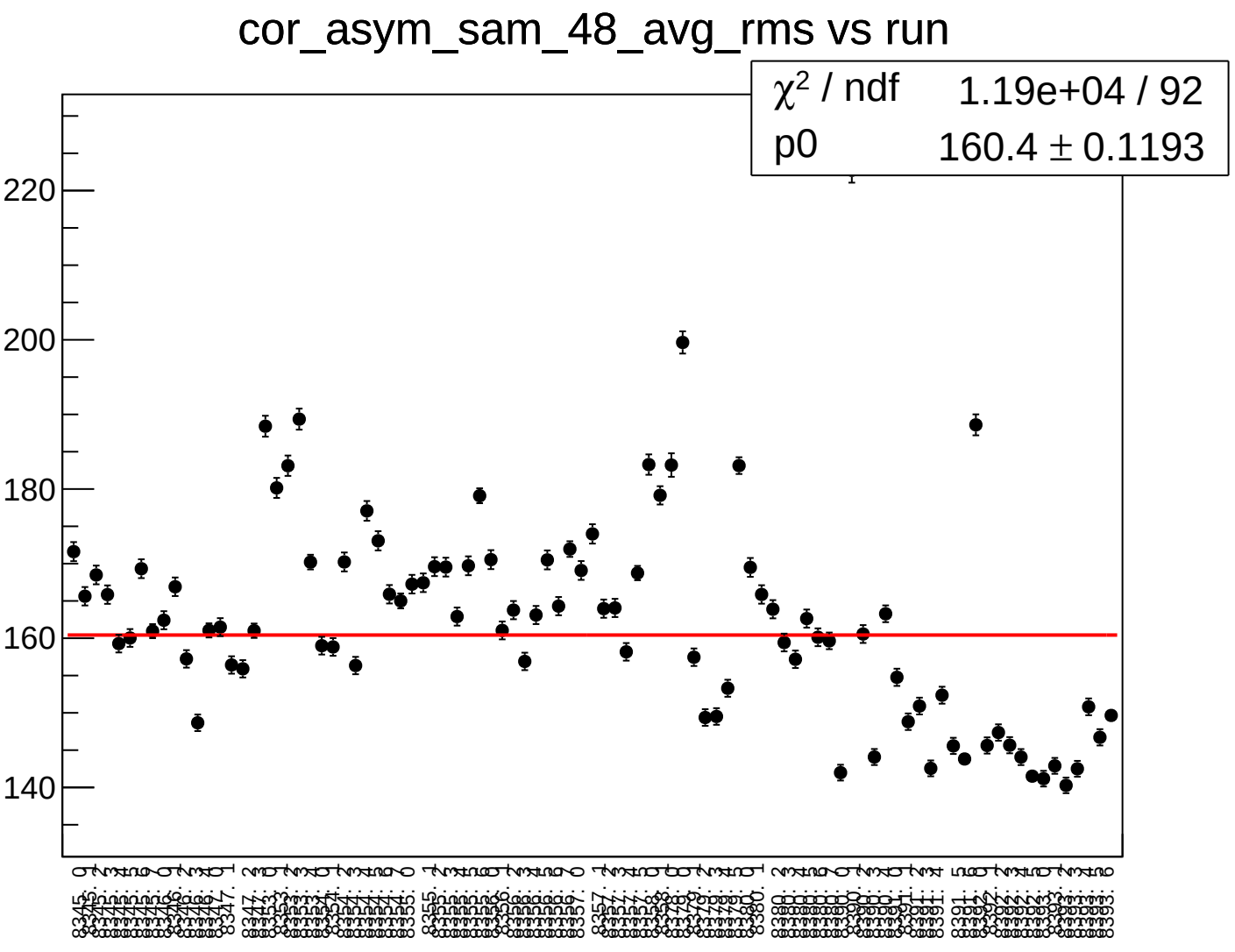

asym_sam_48_avg_reg_correction_mean vs run
×10^3
χ² / ndf 116.3 / 92
p0 −7893 ± 2449
pull
Entries 93
Mean −466.2
Std Dev 0

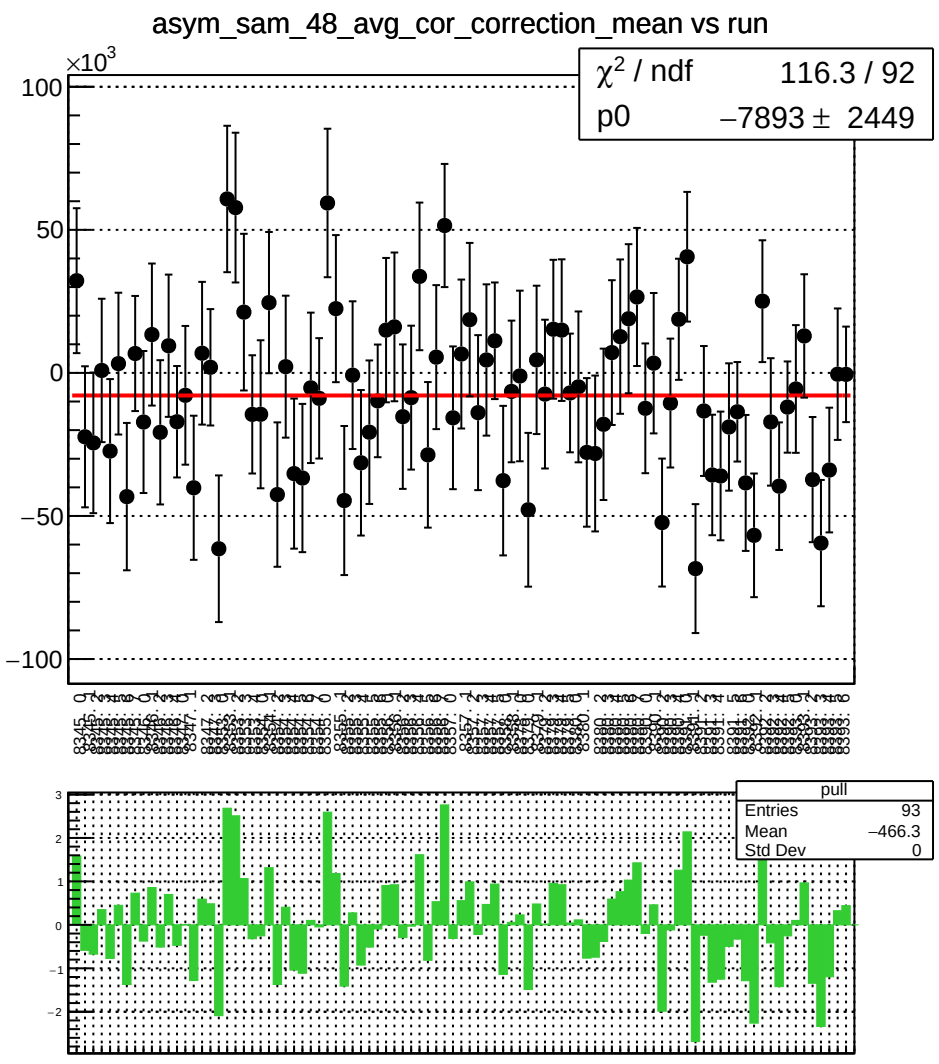

pull1D
Entries 93
Mean 0.009627
Std Dev 1.118

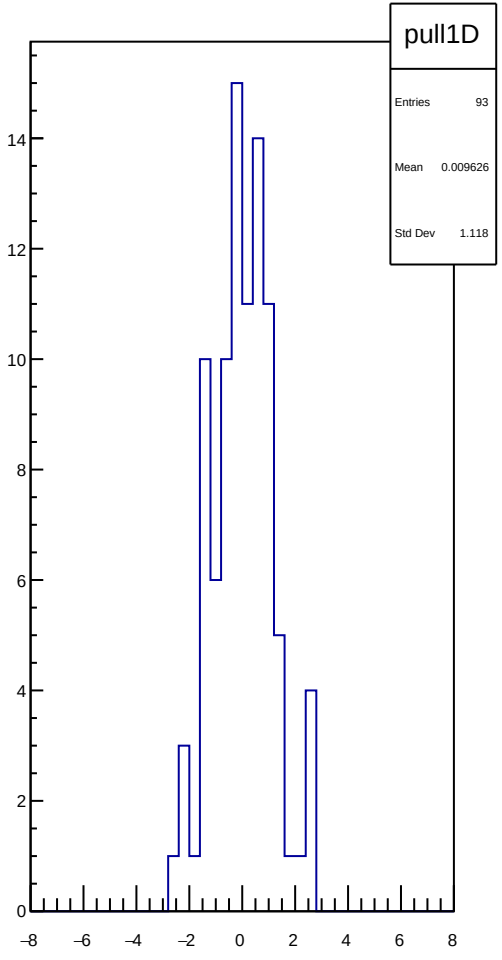

asym_sam_48_avg_reg_correction_rms vs run
χ² / ndf 8992 / 92
p0 2329 ± 1.732
2600
2500
2400
2300
2200
2100
2000

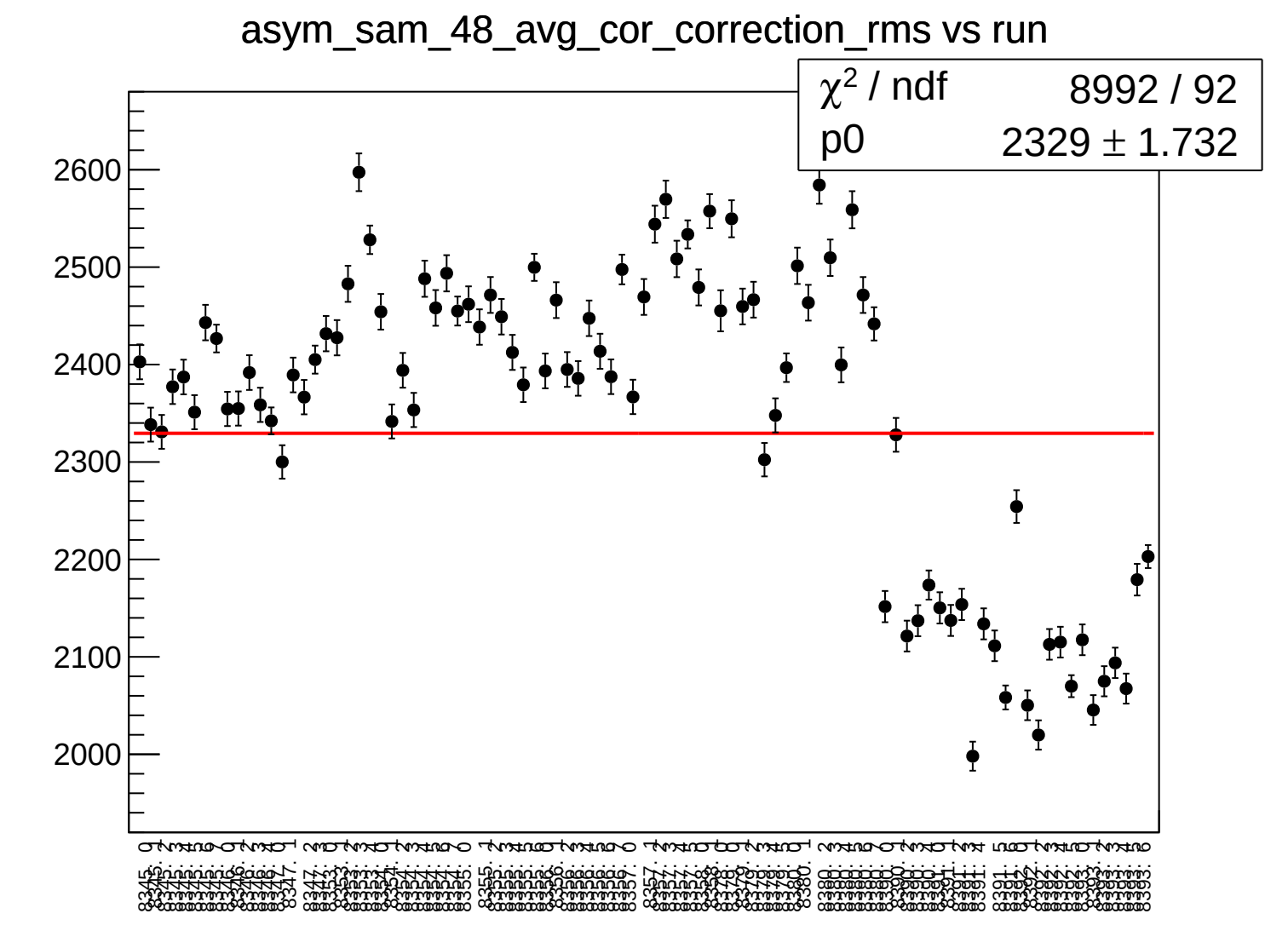

cor_asym_sam_48_avg_mean vs run
χ² / ndf 105.6 / 92
p0 −388.2 ± 168.8
pull
Entries 93
Mean 90.81
Std Dev 0

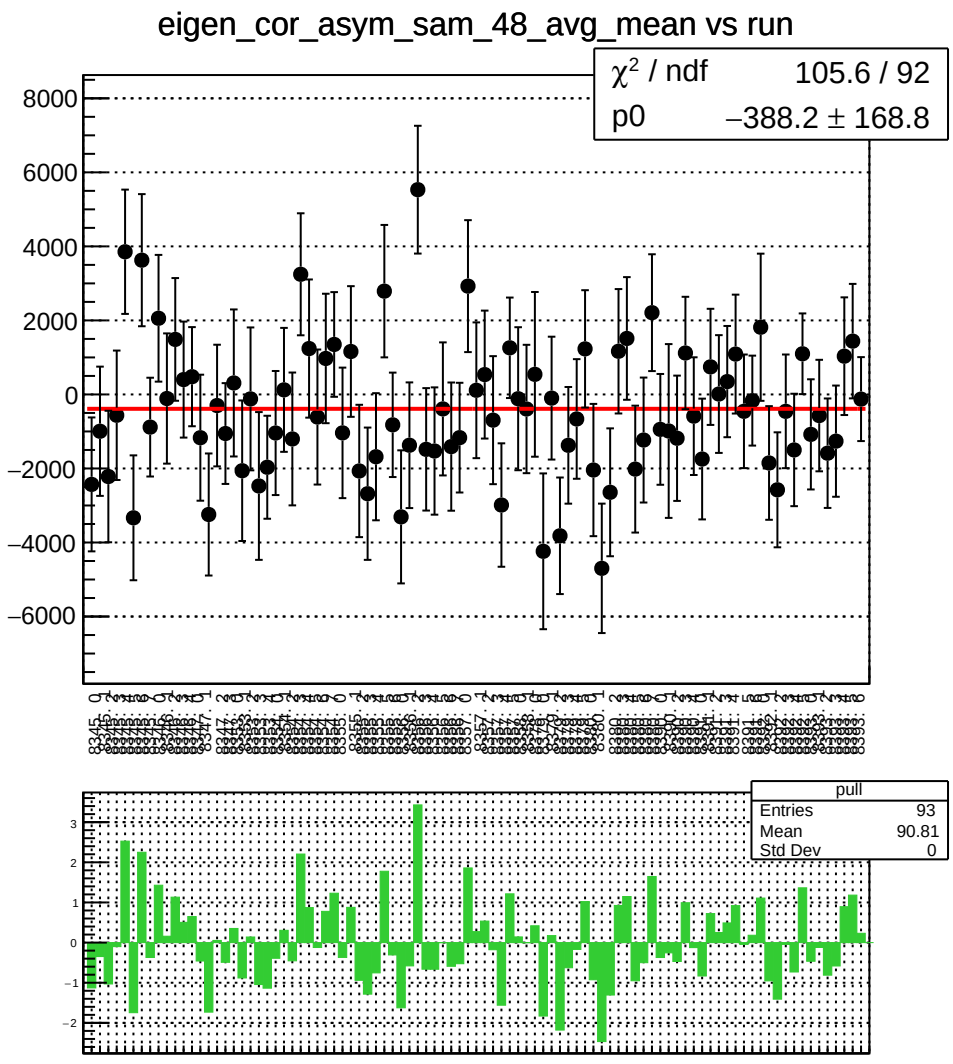

pull1D
Entries 93
Mean −0.01369
Std Dev 1.066

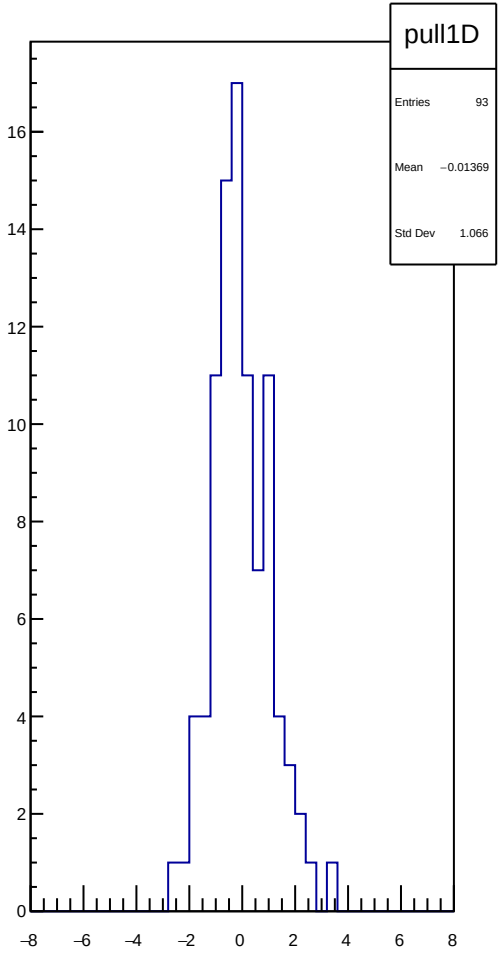

cor_asym_sam_48_avg_rms vs run
χ² / ndf 1.19e+04 / 92
p0 160.4 ± 0.1193
220
200
180
160
140

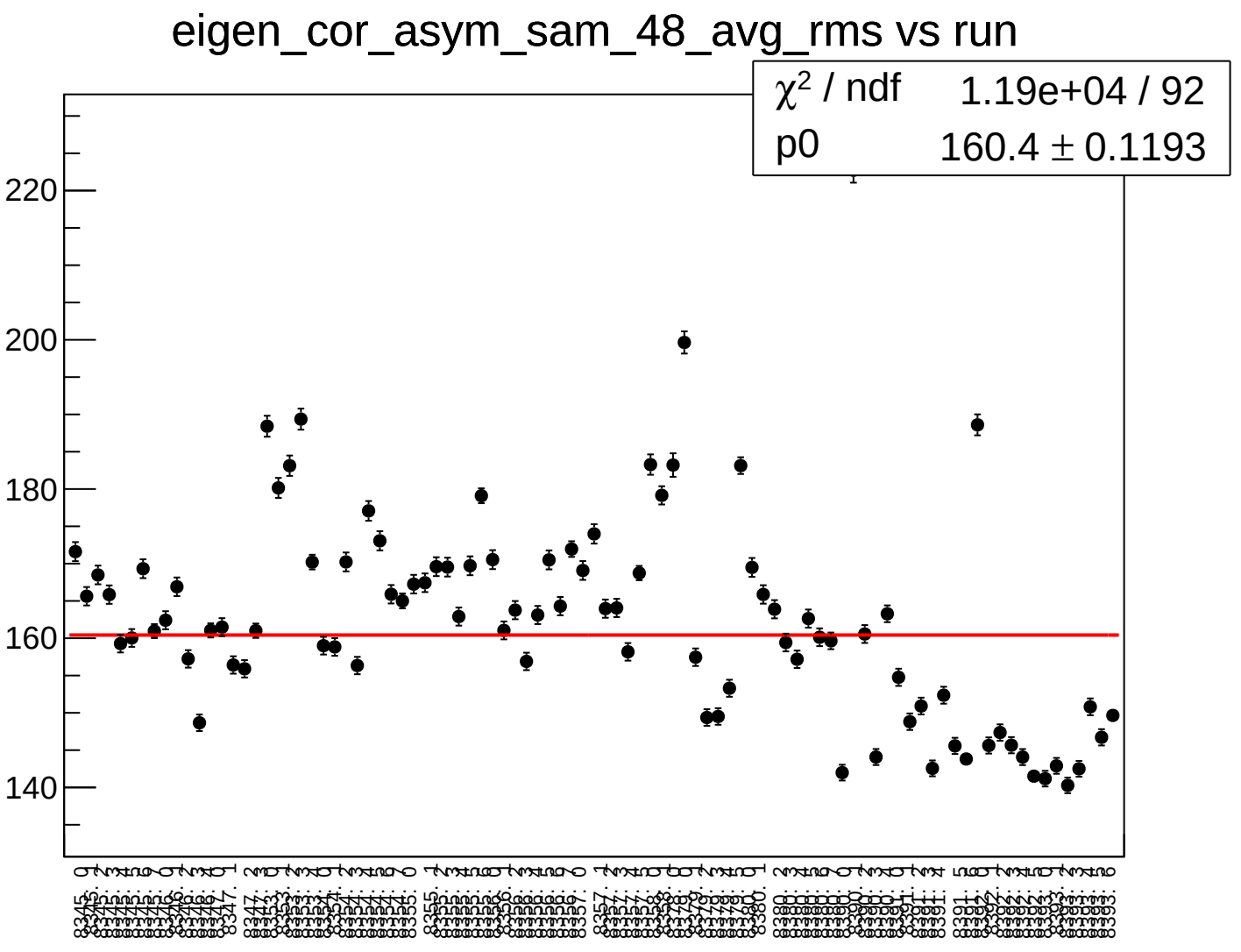

asym_sam_48_avg_cor_correction_mean vs run
×10^3
χ² / ndf 116.3 / 92
p0 −7893 ± 2449
pull
Entries 93
Mean −466.3
Std Dev 0

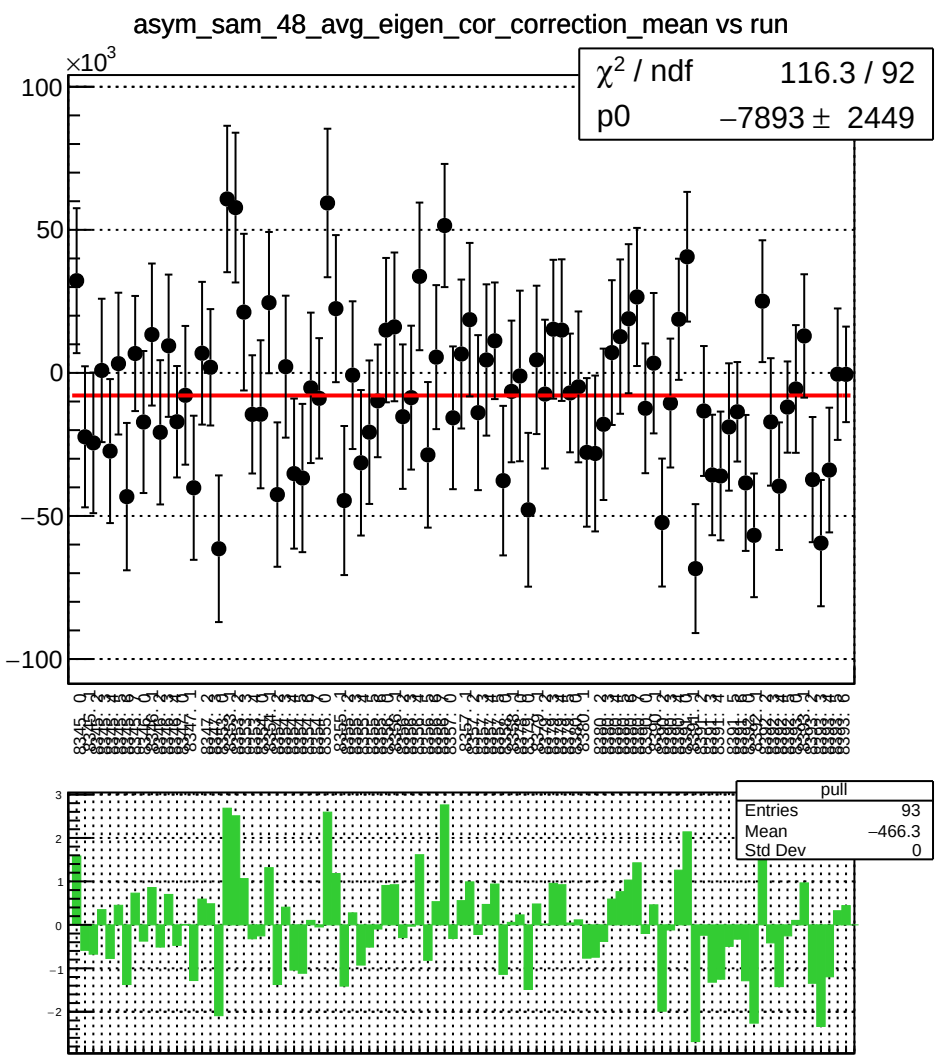

pull1D
Entries 93
Mean 0.009626
Std Dev 1.118

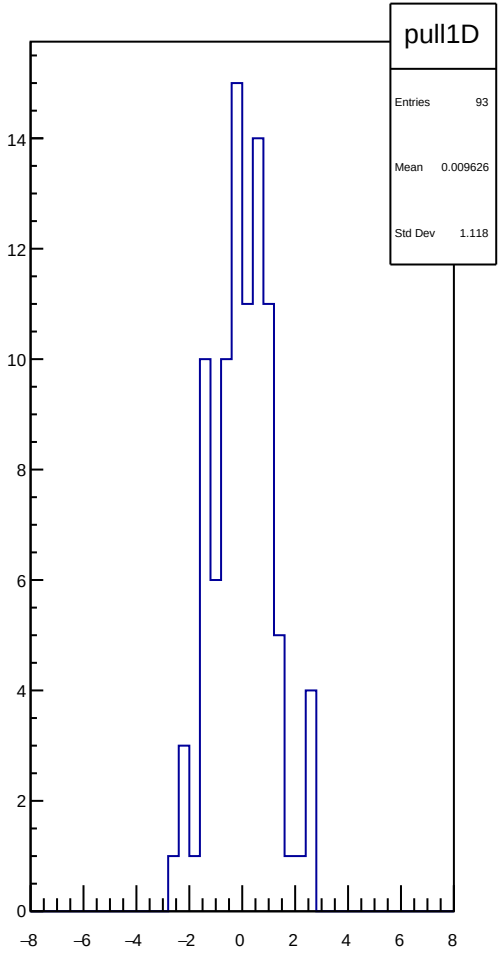

asym_sam_48_avg_cor_correction_rms vs run
χ² / ndf 8992 / 92
p0 2329 ± 1.732
2600
2500
2400
2300
2200
2100
2000

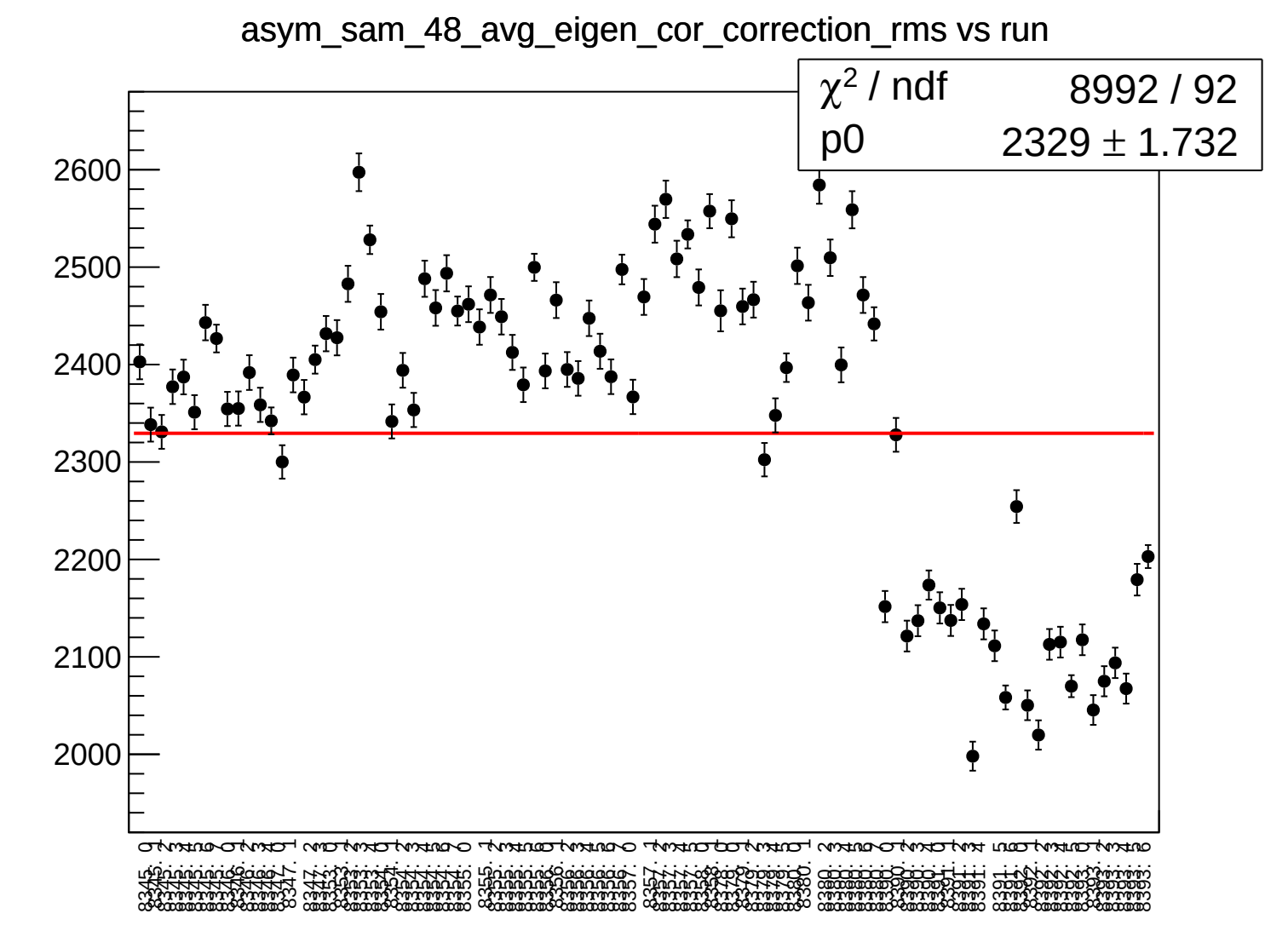

eigen_cor_asym_sam_48_avg_mean vs run
χ² / ndf 105.6 / 92
p0 −388.2 ± 168.8
pull
Entries 93
Mean 90.81
Std Dev 0

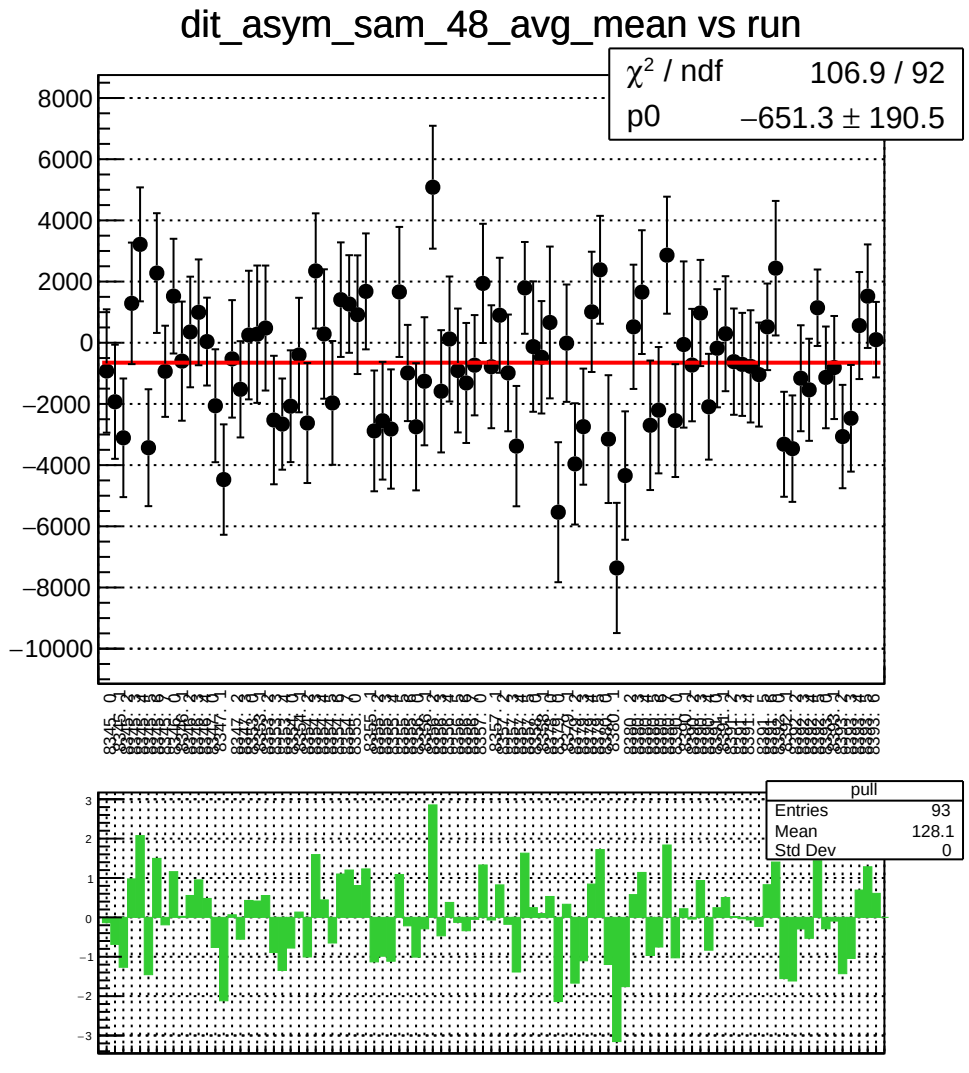

pull1D
Entries 93
Mean −0.01369
Std Dev 1.066

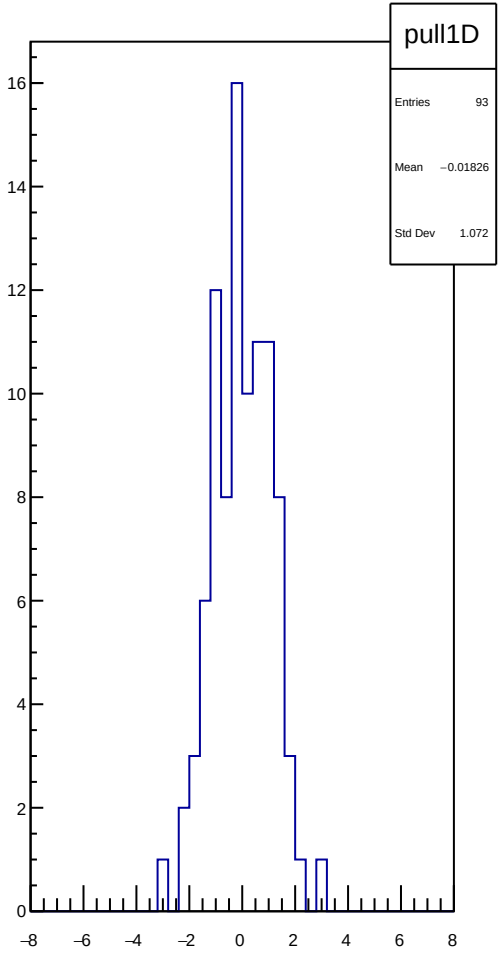

eigen_cor_asym_sam_48_avg_rms vs run
χ² / ndf 1.19e+04 / 92
p0 160.4 ± 0.1193
220
200
180
160
140

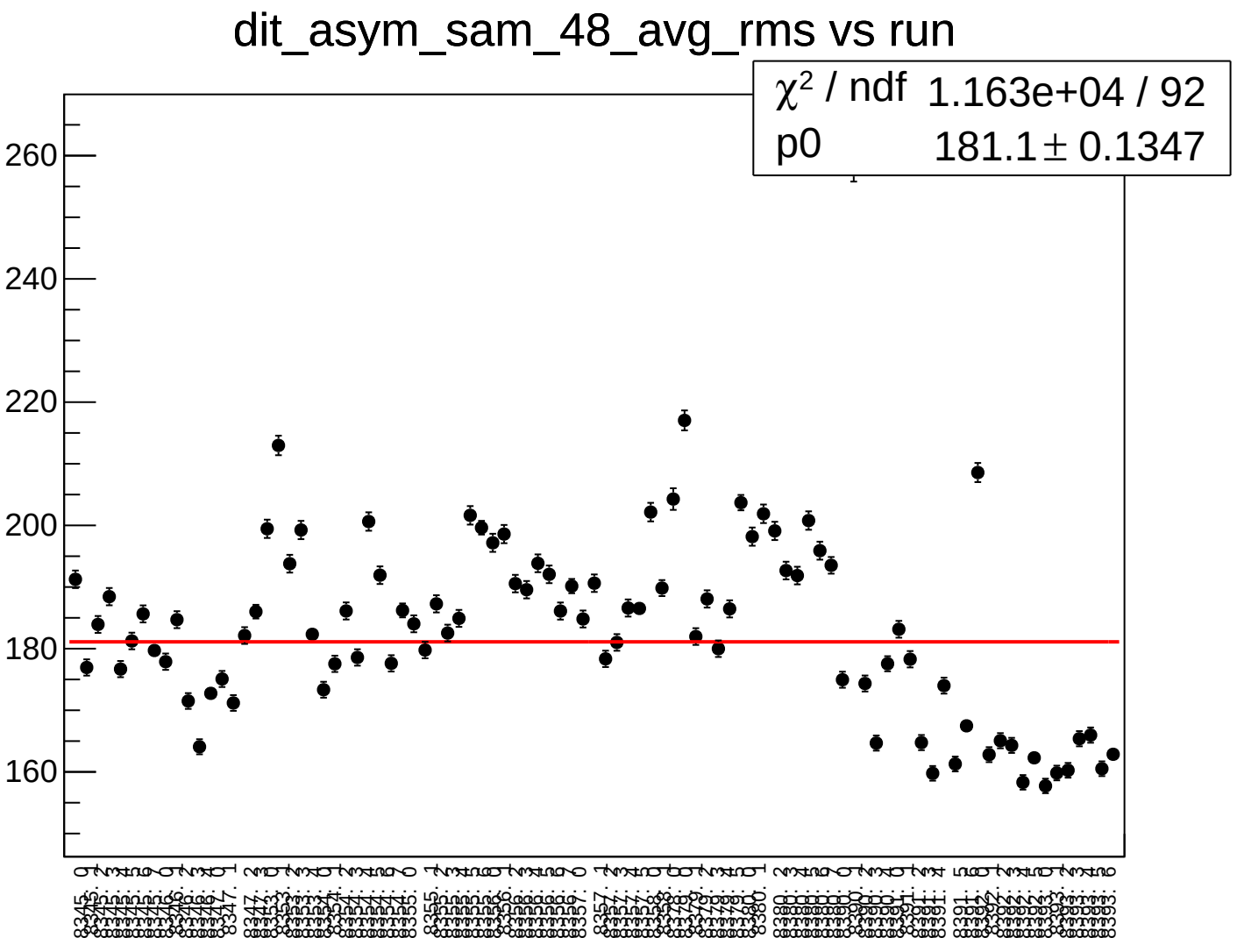

asym_sam_48_avg_eigen_cor_correction_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 116.3 / 92
p0 −7893 ± 2449
pull
Entries 93
Mean −466.3
Std Dev 0
3
2
1
0
−1
−2

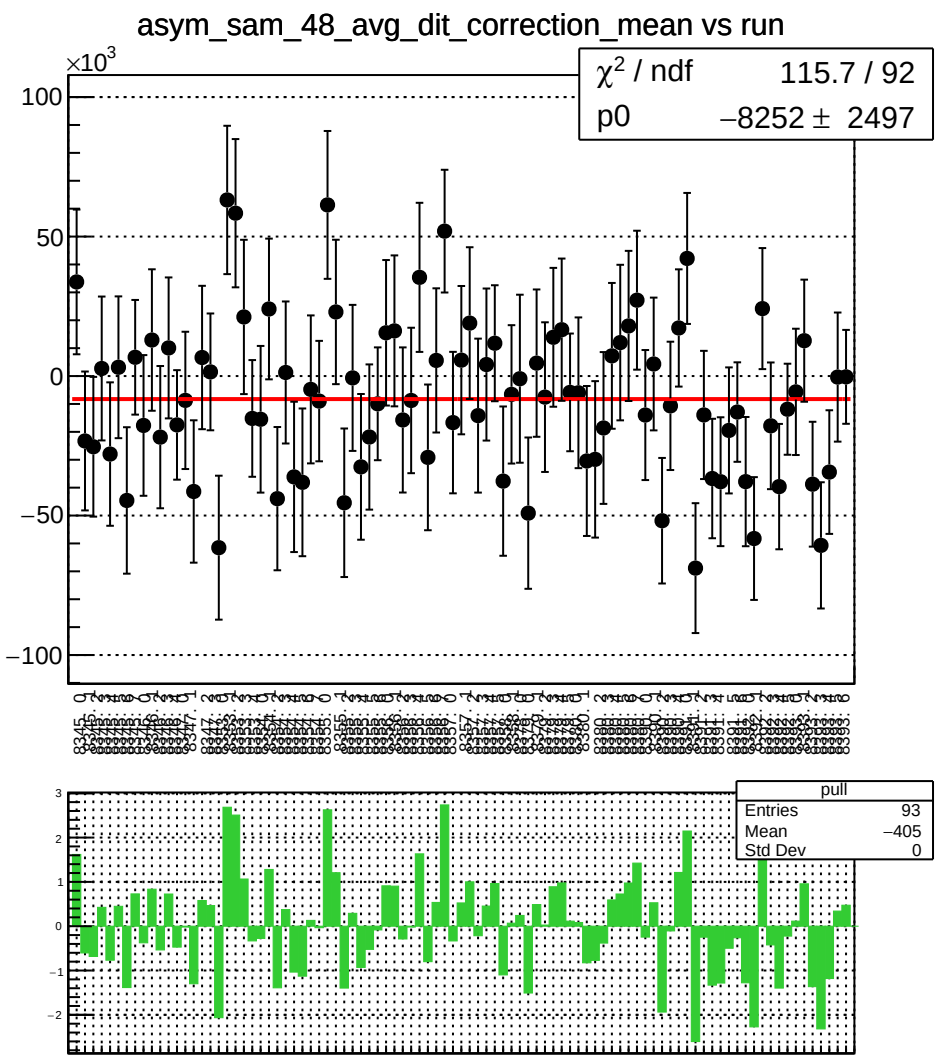

pull1D
Entries 93
Mean 0.009626
Std Dev 1.118
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

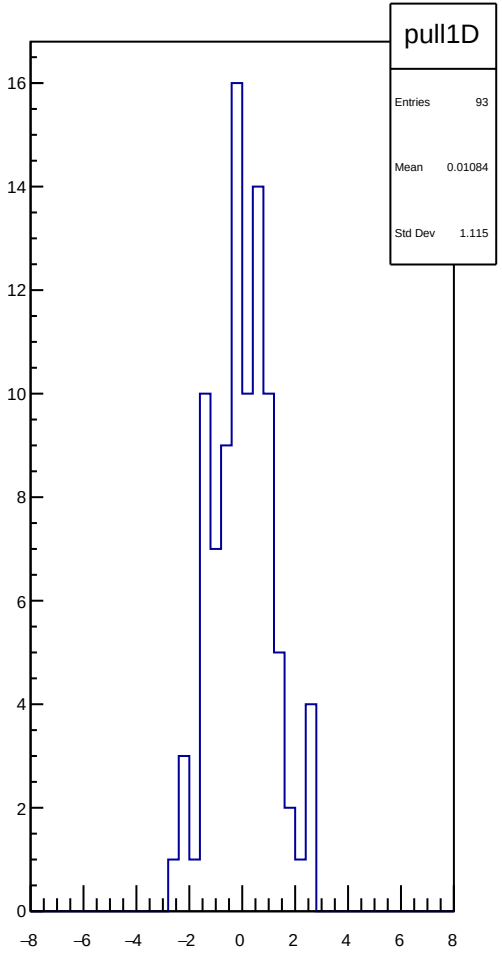

asym_sam_48_avg_eigen_cor_correction_rms vs run
χ² / ndf 8992 / 92
p0 2329 ± 1.732
2600
2500
2400
2300
2200
2100
2000

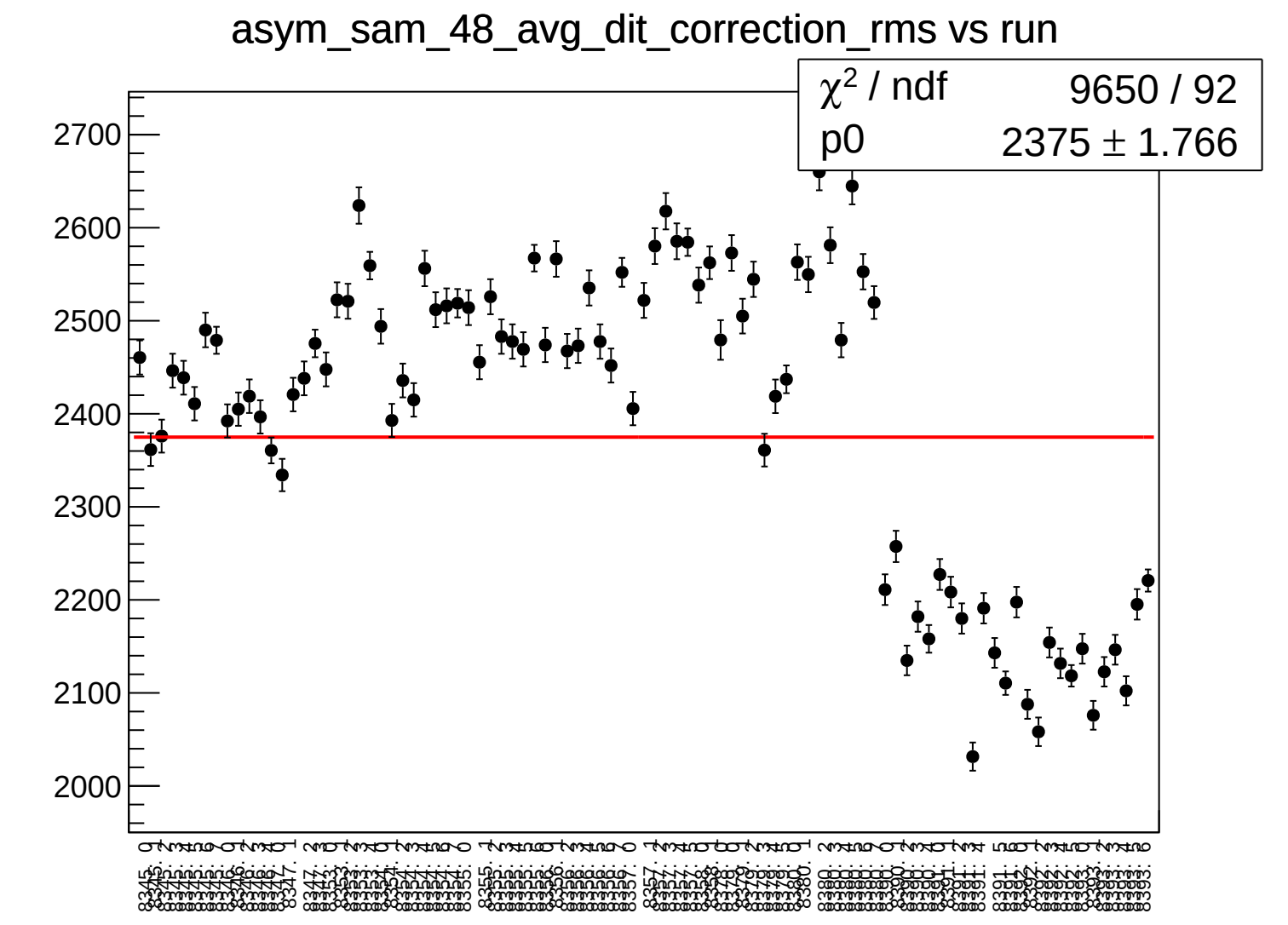

dit_asym_sam_48_avg_mean vs run
χ² / ndf 106.9 / 92
p0 −651.3 ± 190.5
pull
Entries 93
Mean 128.1
Std Dev 0

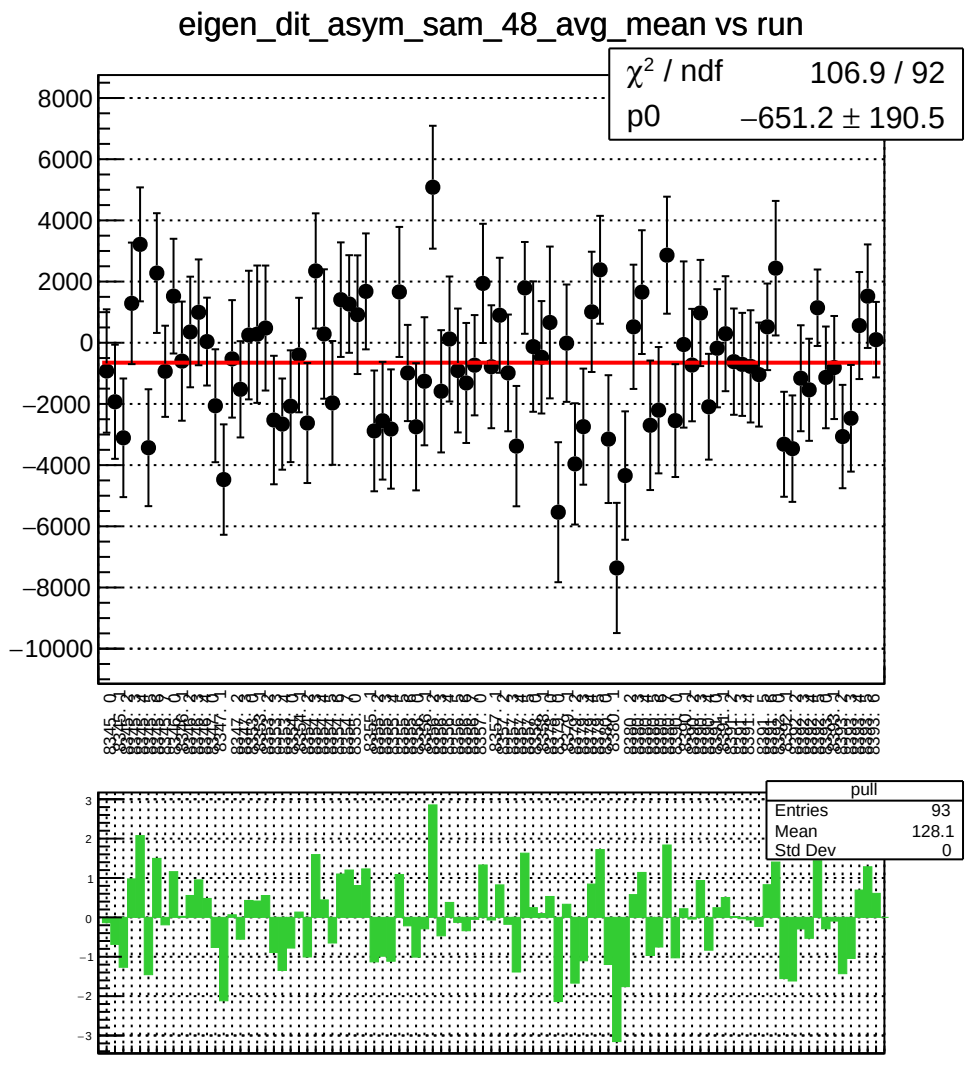

pull1D
Entries 93
Mean −0.01826
Std Dev 1.072

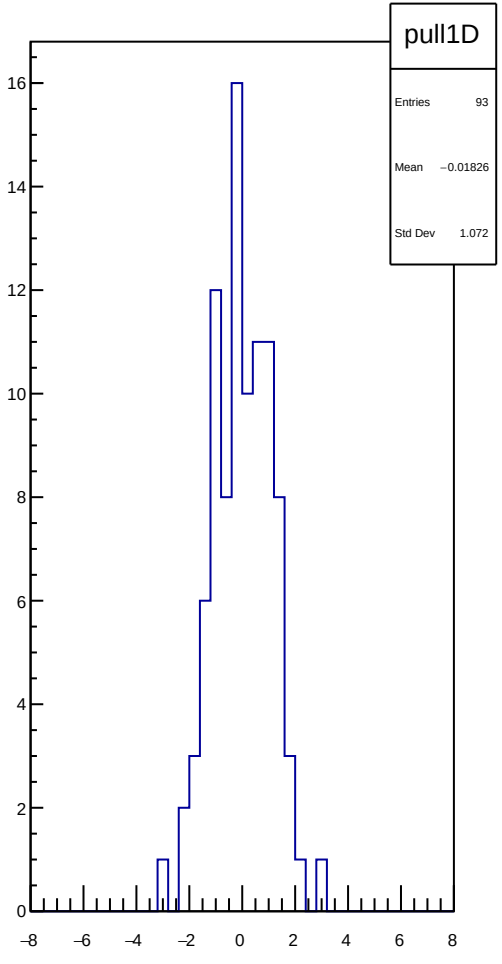

dit_asym_sam_48_avg_rms vs run
χ² / ndf 1.163e+04 / 92
p0 181.1 ± 0.1347
260
240
220
200
180
160

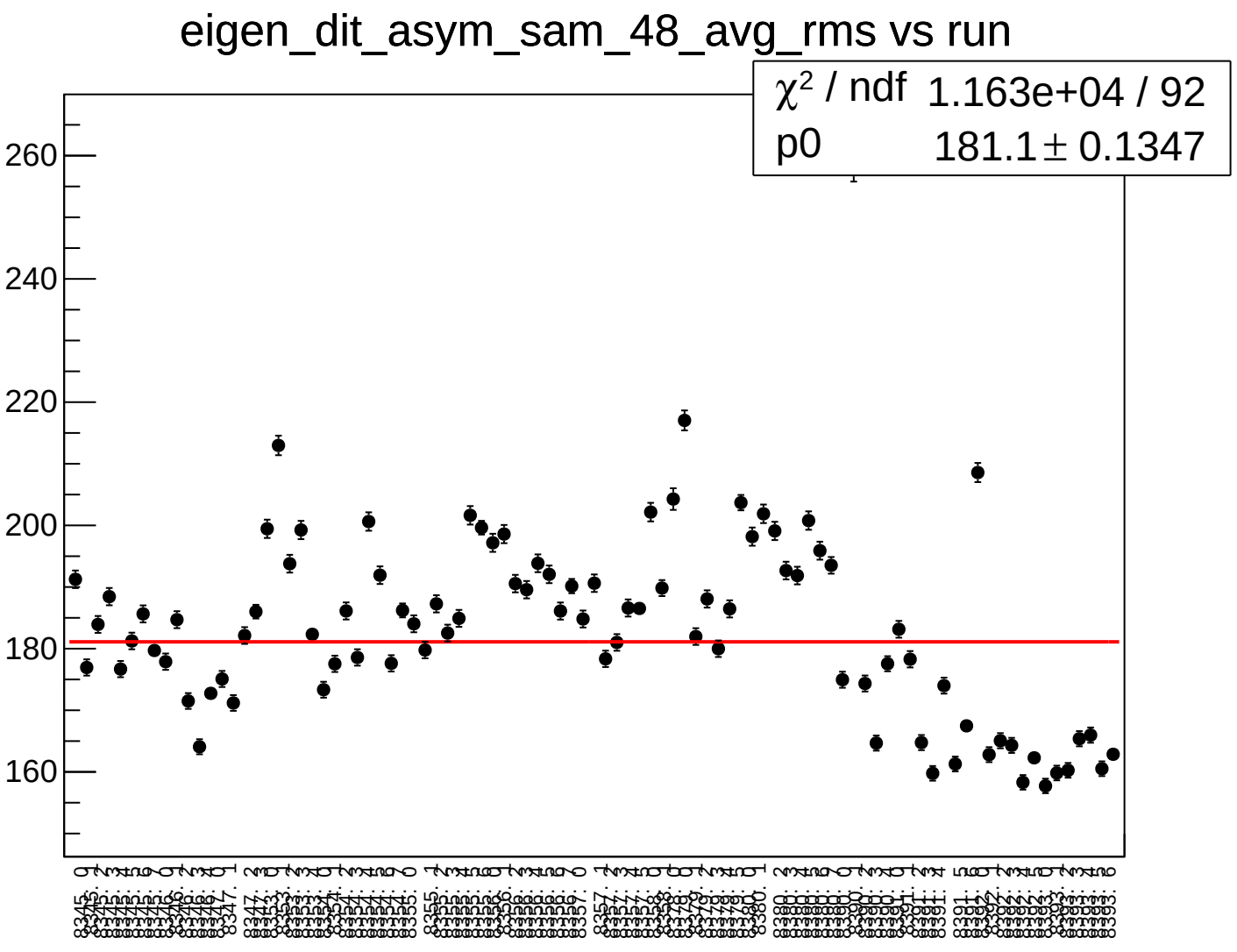

asym_sam_48_avg_dit_correction_mean vs run
×10^3
χ² / ndf 115.7 / 92
p0 −8252 ± 2497
pull
Entries 93
Mean −405
Std Dev 0

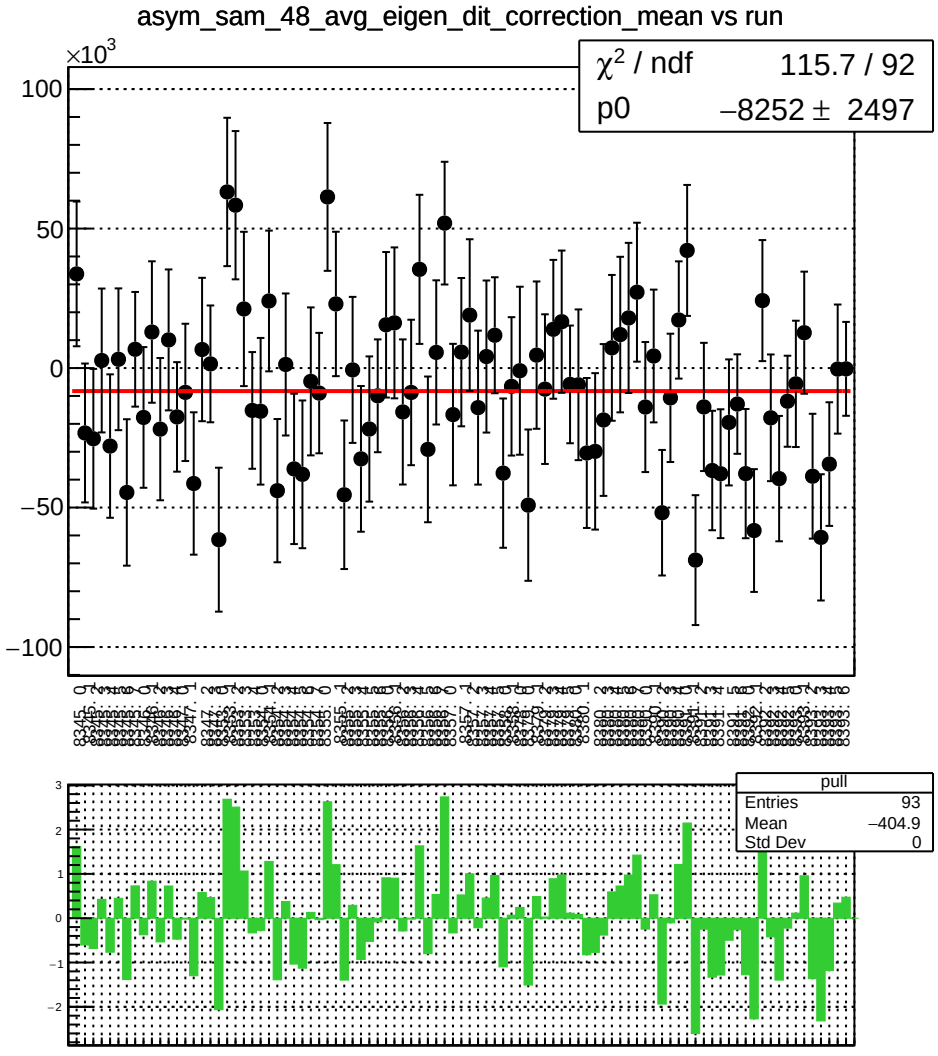

pull1D
Entries 93
Mean 0.01084
Std Dev 1.115

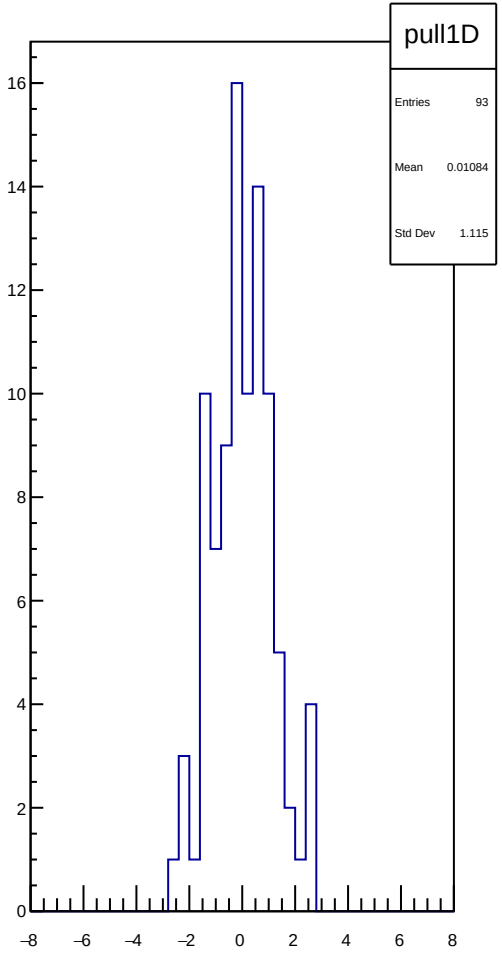

asym_sam_48_avg_dit_correction_rms vs run
χ^2 / ndf 9650 / 92
p0 2375 ± 1.766
2700
2600
2500
2400
2300
2200
2100
2000

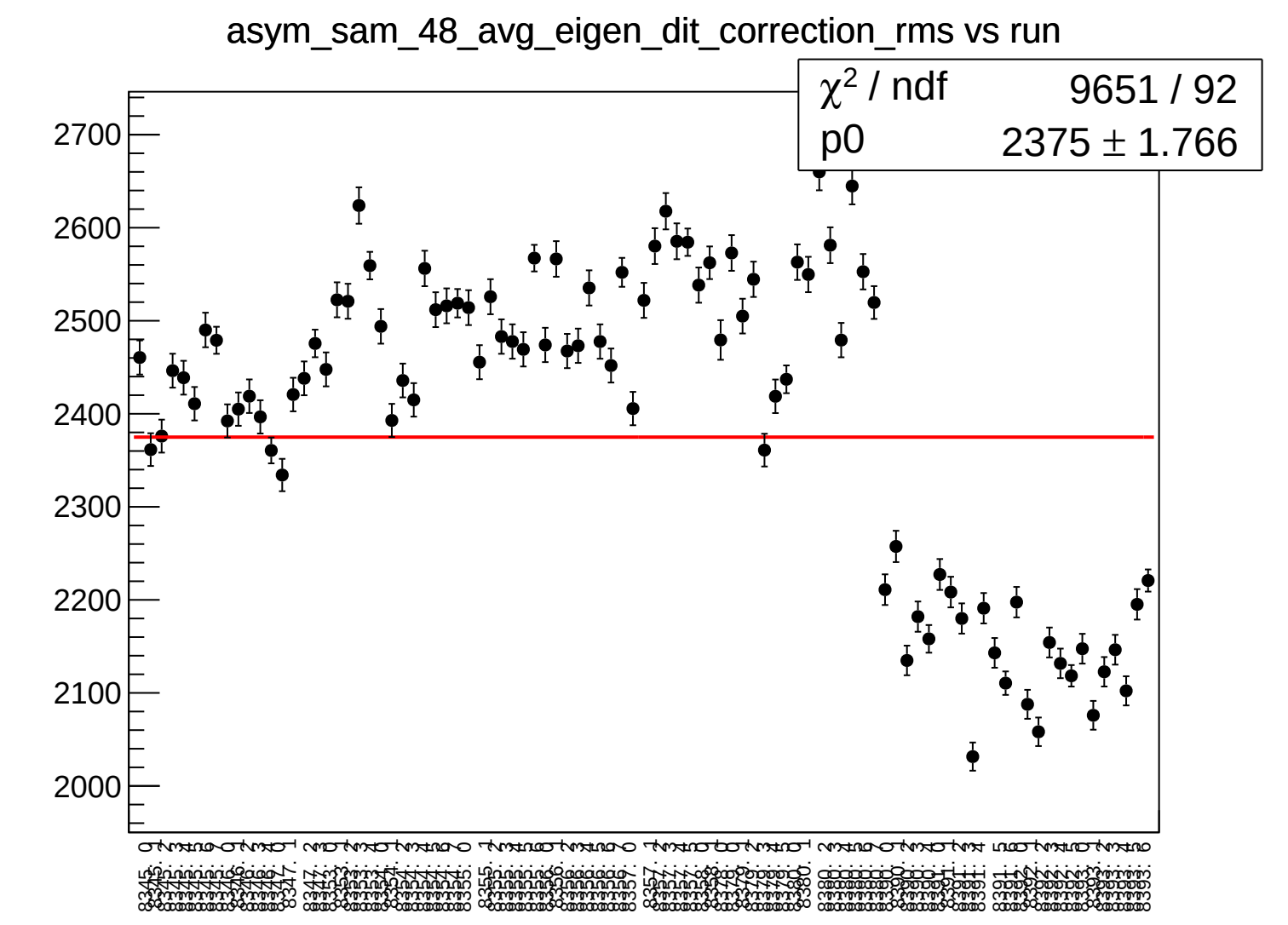

eigen_dit_asym_sam_48_avg_mean vs run
χ² / ndf 106.9 / 92
p0 −651.2 ± 190.5
pull
Entries 93
Mean 128.1
Std Dev 0

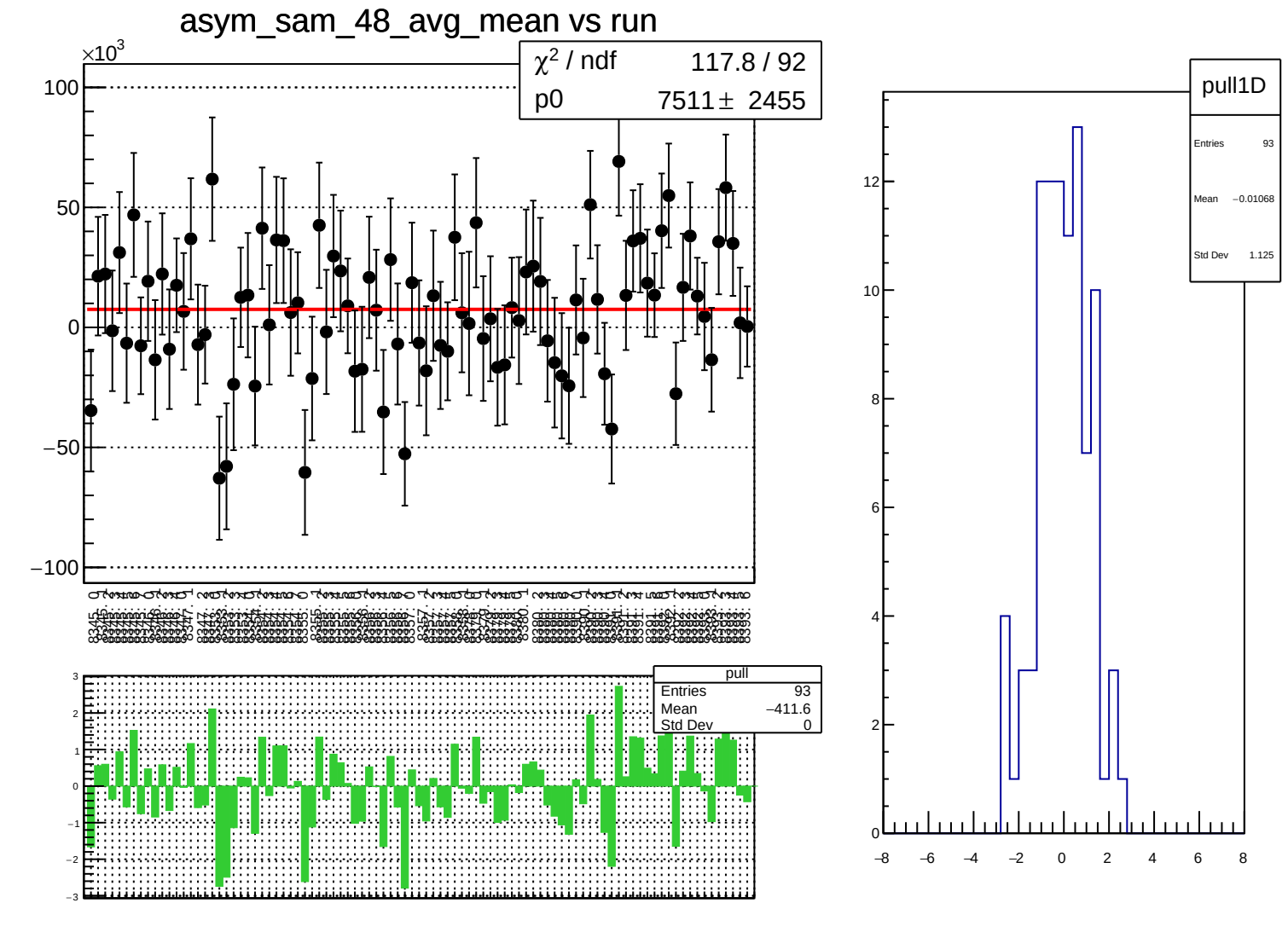

pull1D
Entries 93
Mean −0.01826
Std Dev 1.072

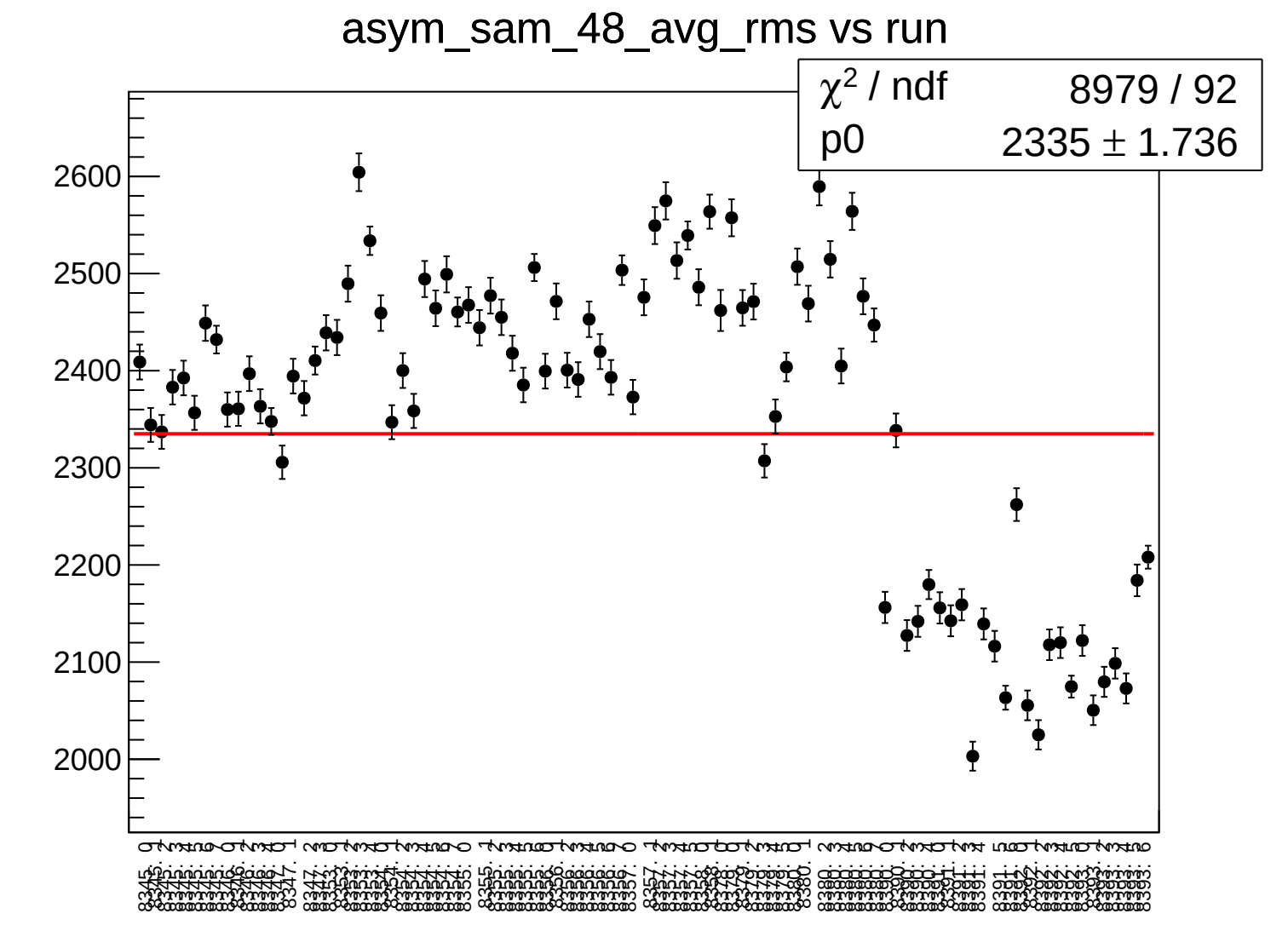

eigen_dit_asym_sam_48_avg_rms vs run
χ² / ndf 1.163e+04 / 92
p0 181.1 ± 0.1347
260
240
220
200
180
160

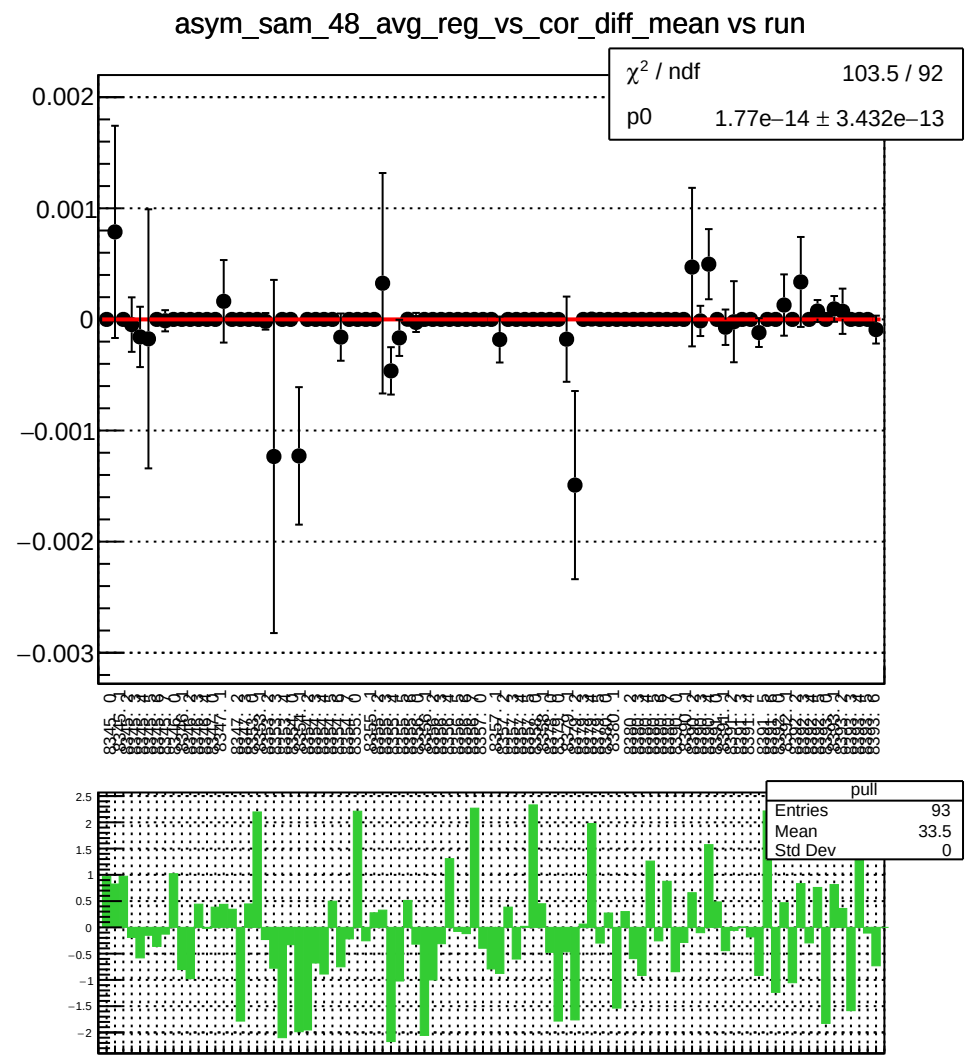

asym_sam_48_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 115.7 / 92
p0 −8252 ± 2497
pull
Entries 93
Mean −404.9
Std Dev 0

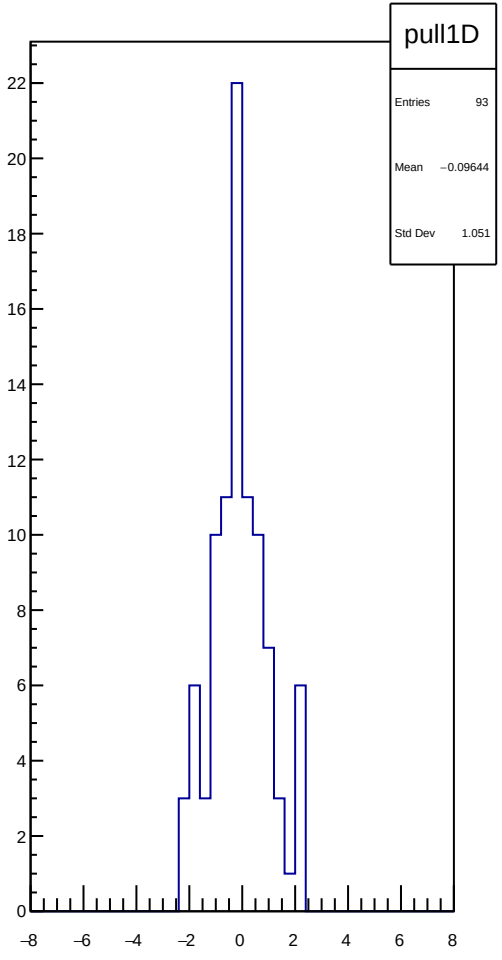

pull1D
Entries 93
Mean 0.01084
Std Dev 1.115

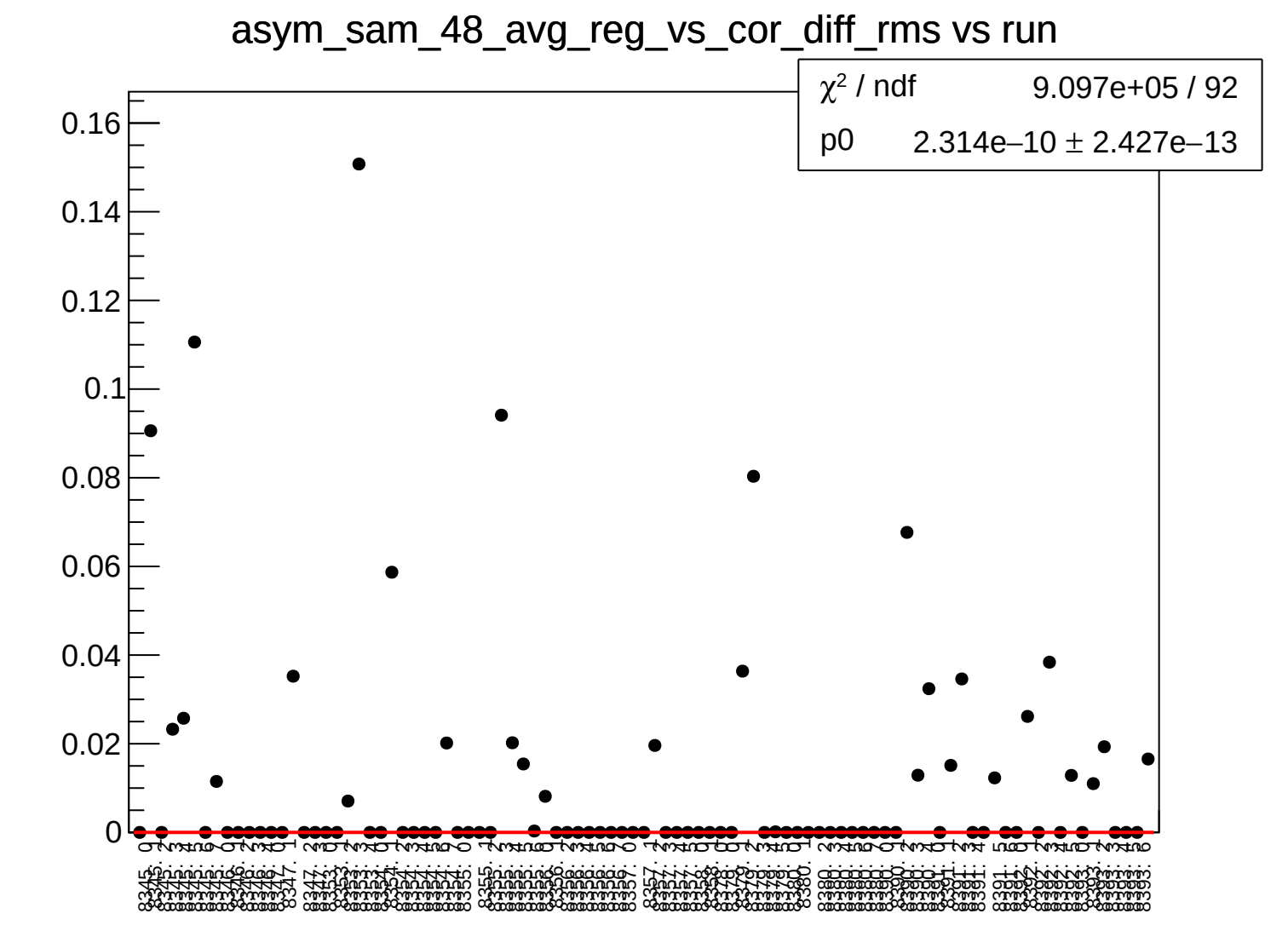

asym_sam_48_avg_eigen_dit_correction_rms vs run
χ² / ndf 9651 / 92
p0 2375 ± 1.766
2700
2600
2500
2400
2300
2200
2100
2000

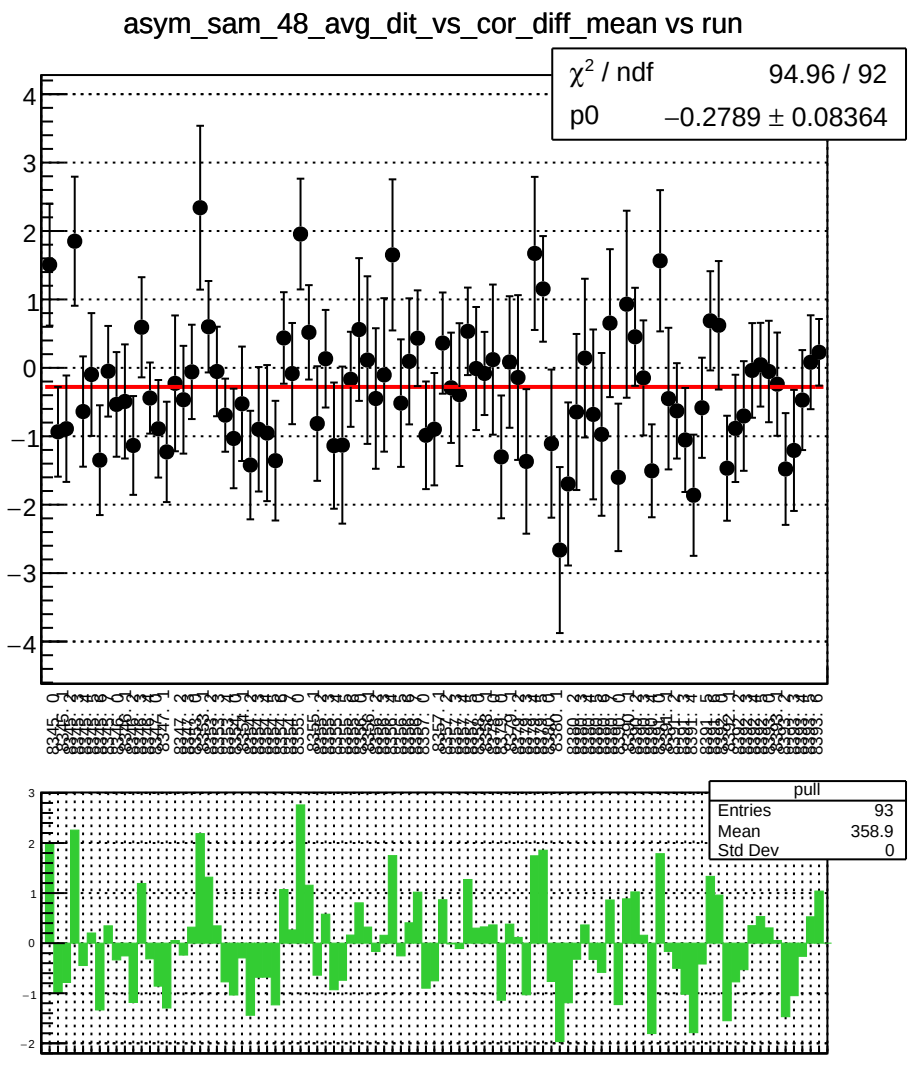

asym_sam_48_avg_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 117.8 / 92
p0 7511 ± 2455
pull
Entries 93
Mean −411.6
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.01068
Std Dev 1.125
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

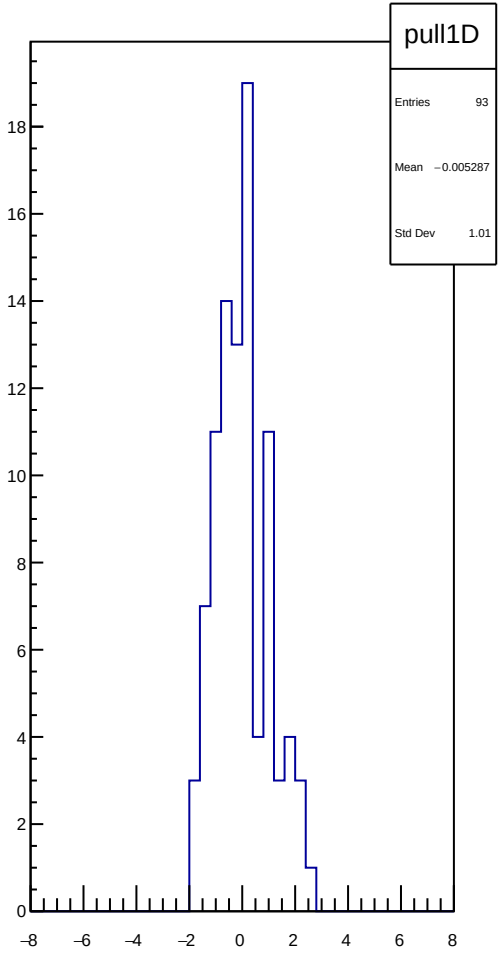

asym_sam_48_avg_rms vs run
χ^2 / ndf 8979 / 92
p0 2335 ± 1.736
2600
2500
2400
2300
2200
2100
2000

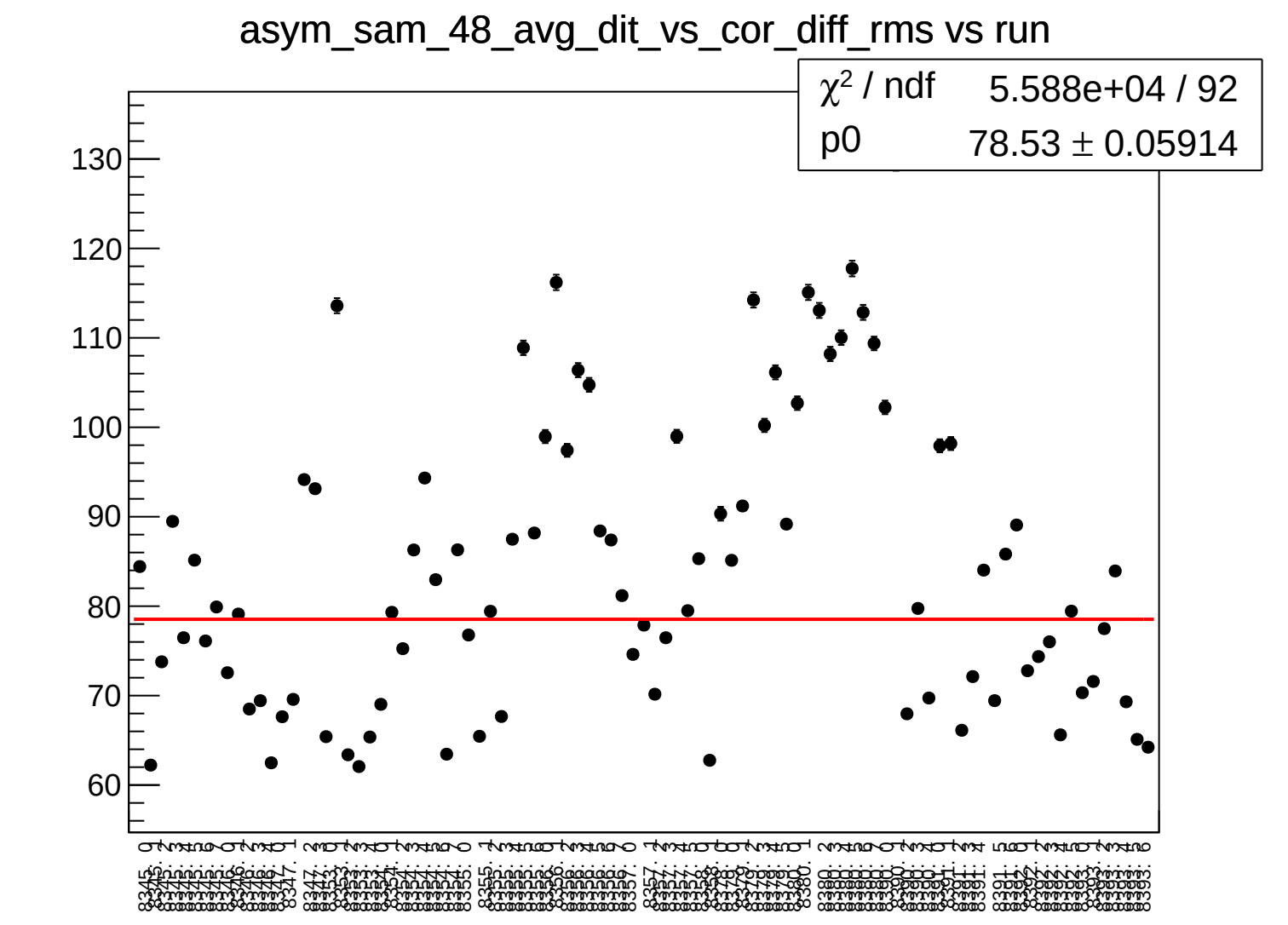

asym_sam_48_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 103.5 / 92
p0 1.77e−14 ± 3.432e−13
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 93
Mean 33.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

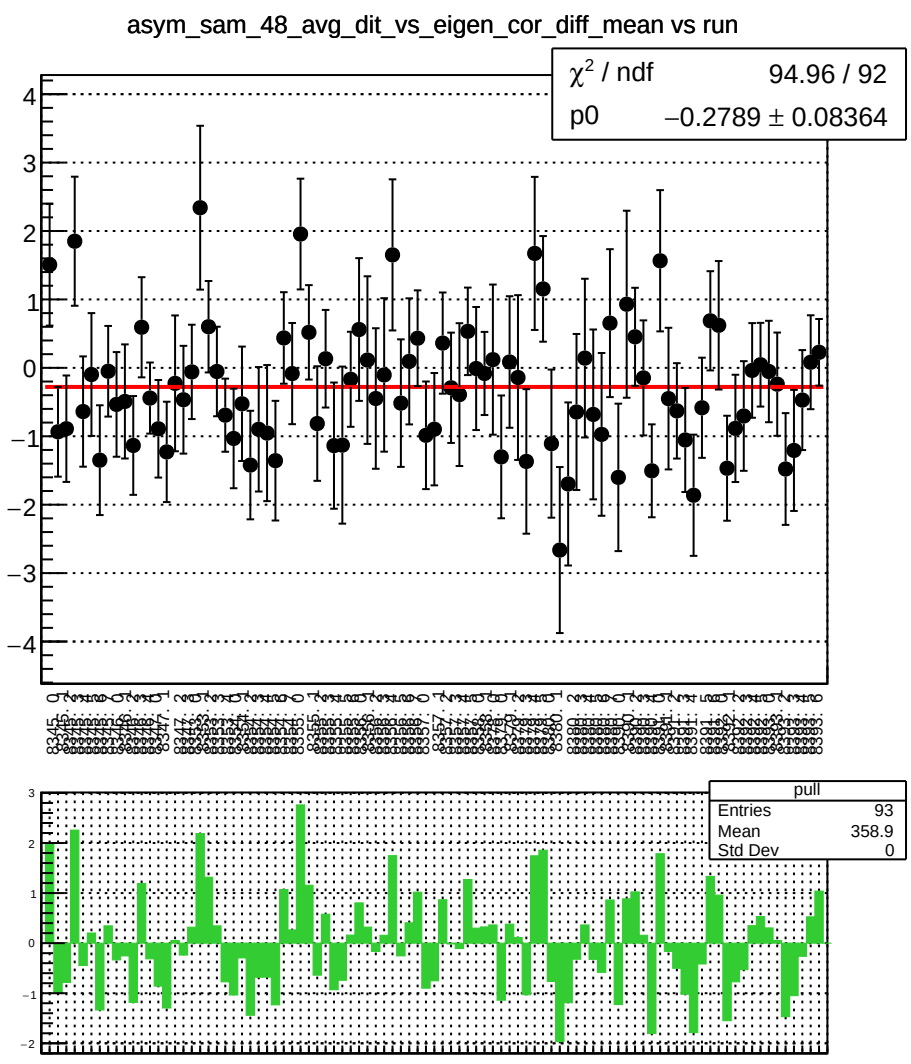

pull1D
Entries 93
Mean −0.09644
Std Dev 1.051
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

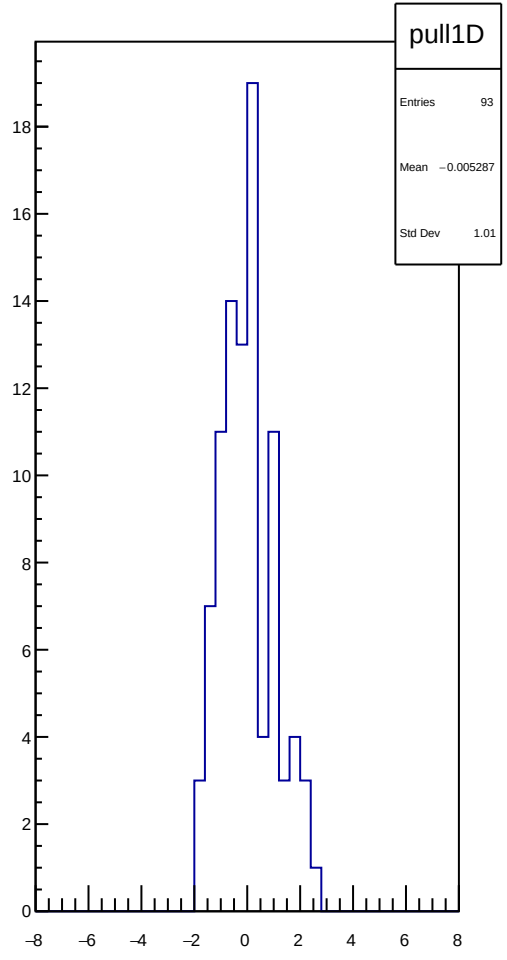

asym_sam_48_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.097e+05 / 92
p0 2.314e−10 ± 2.427e−13
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

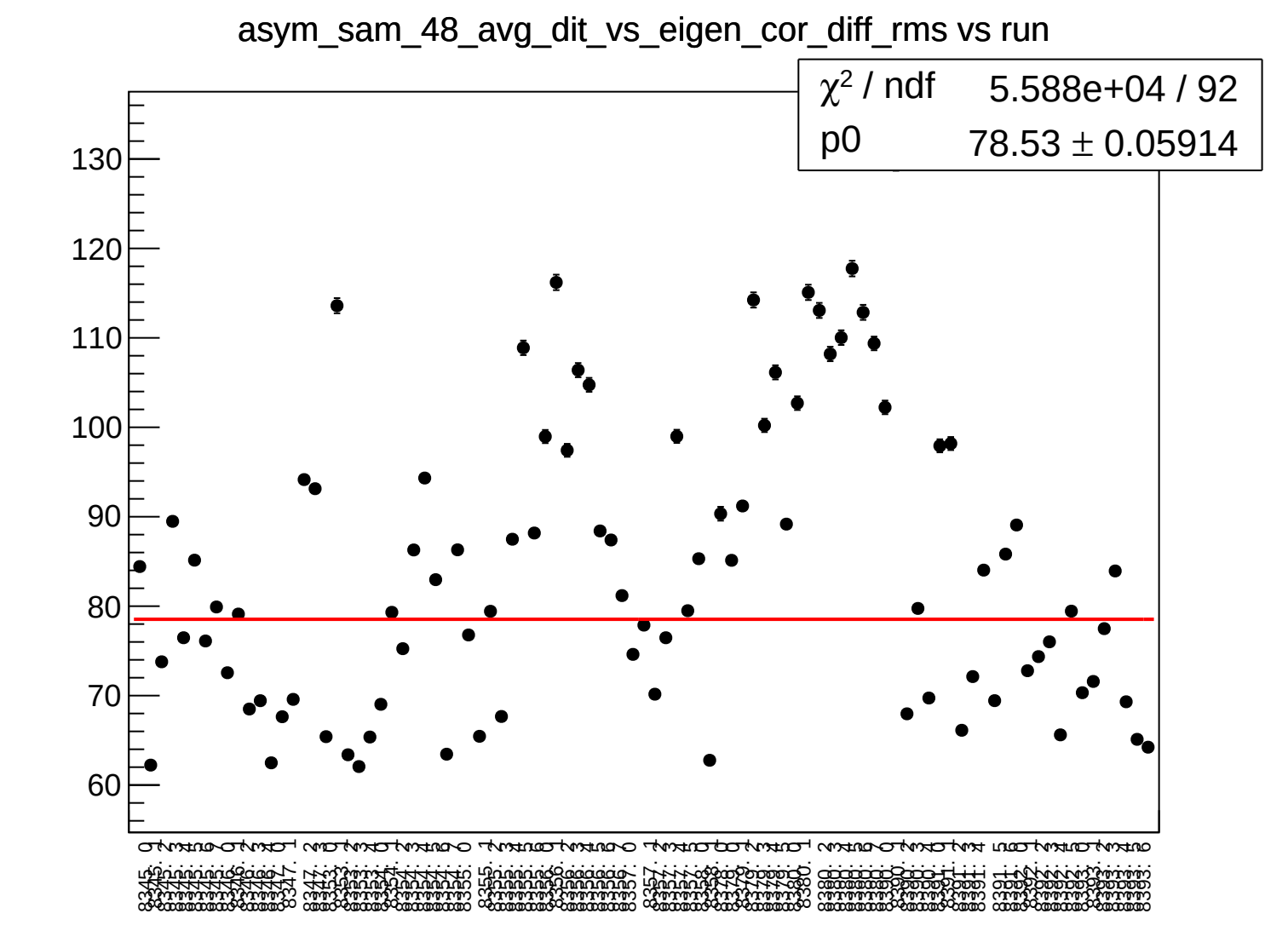

asym_sam_48_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 94.96 / 92
p0 −0.2789 ± 0.08364
pull
Entries 93
Mean 358.9
Std Dev 0

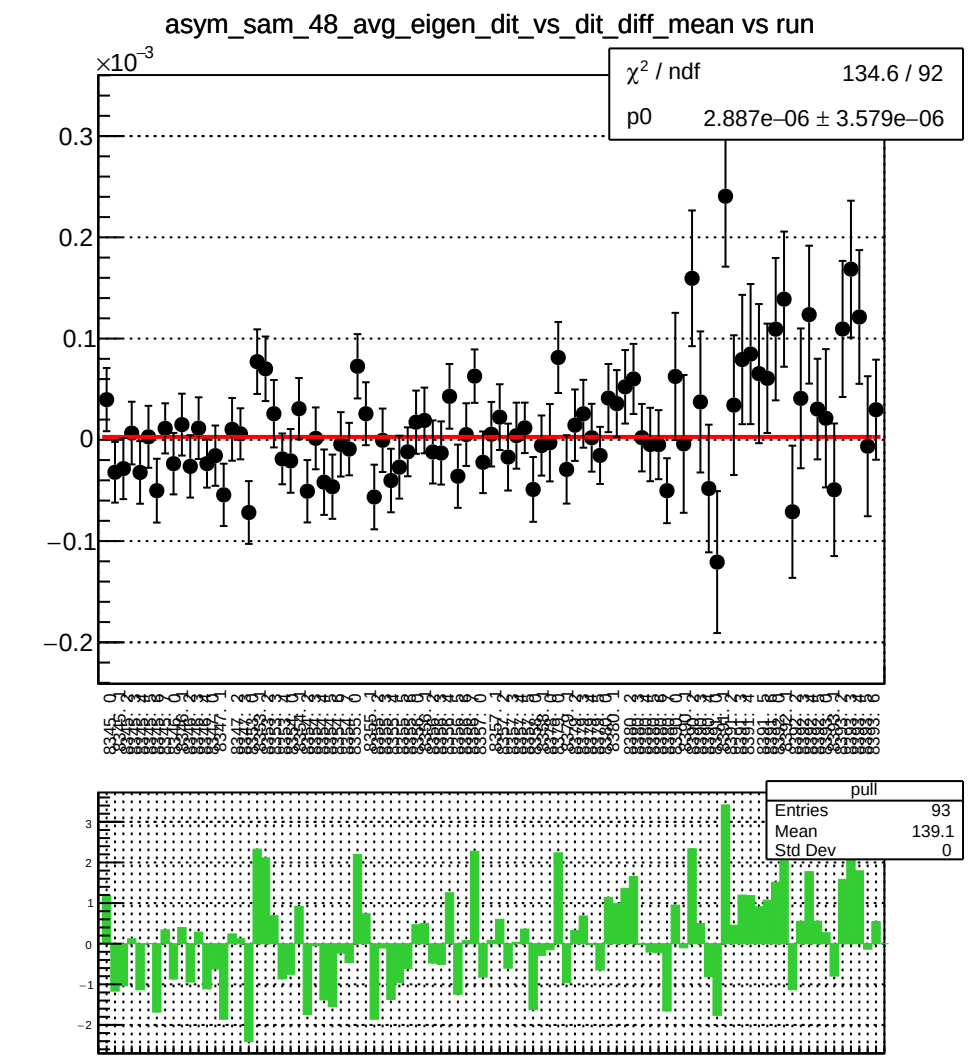

pull1D
Entries 93
Mean −0.005287
Std Dev 1.01

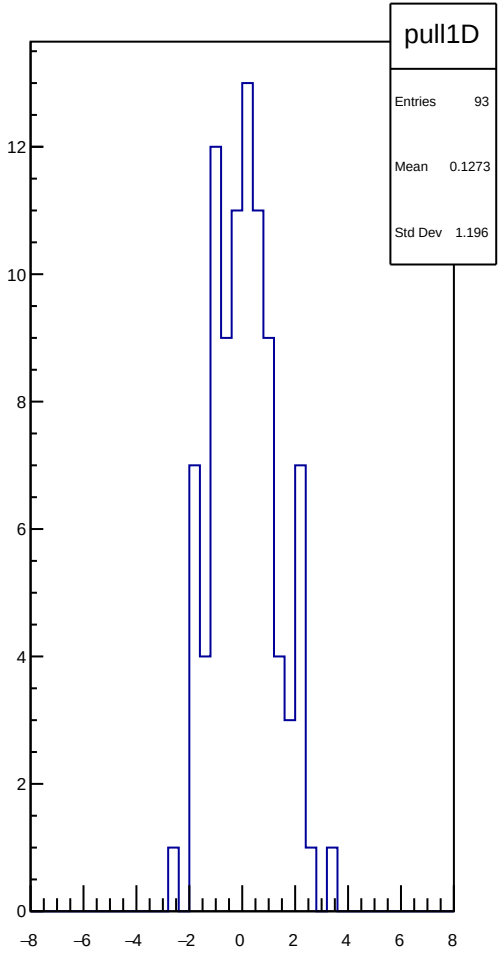

asym_sam_48_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 5.588e+04 / 92
p0 78.53 ± 0.05914
130
120
110
100
90
80
70
60

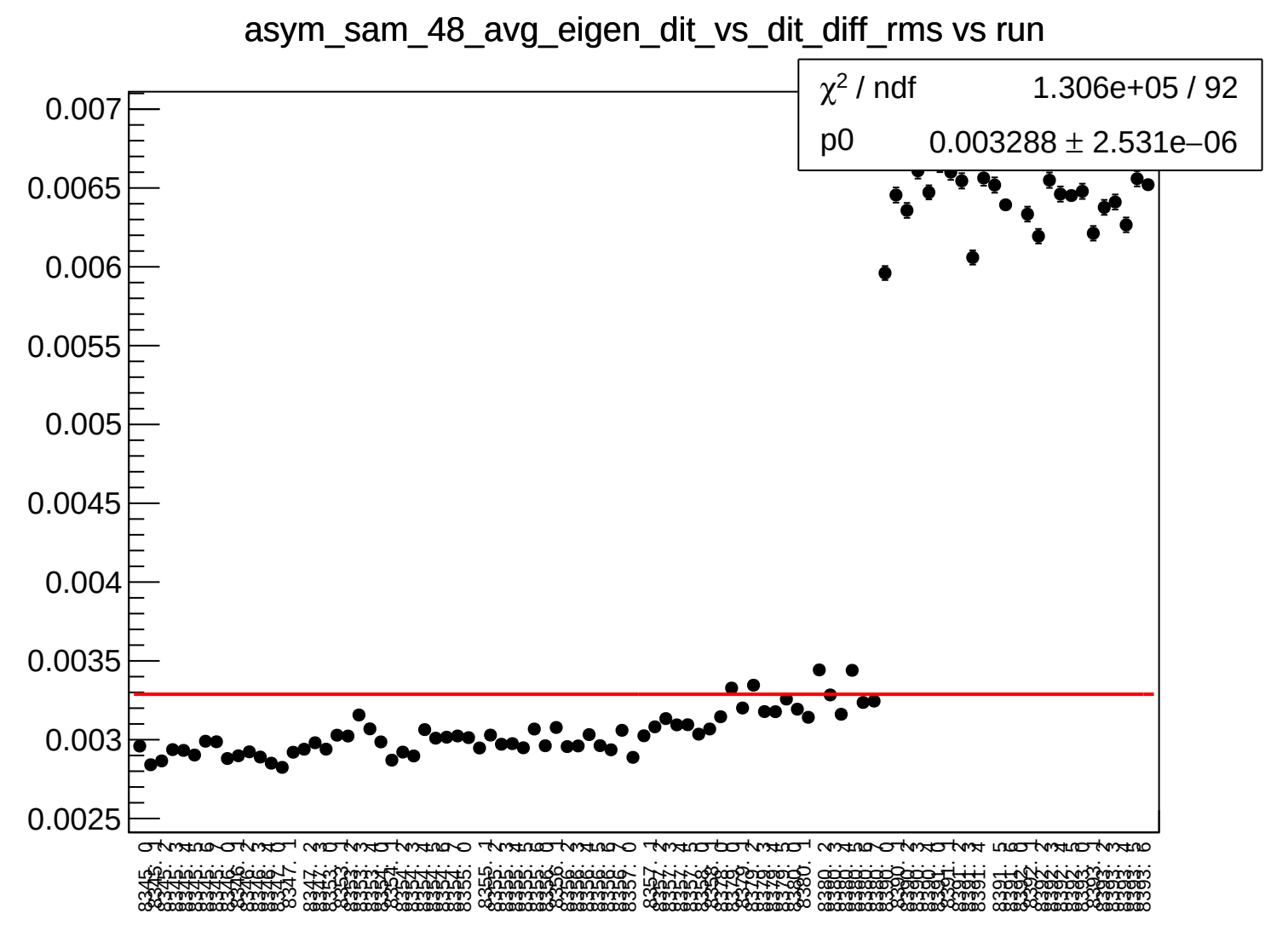

asym_sam_48_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.96 / 92
p0 −0.2789 ± 0.08364
pull
Entries 93
Mean 358.9
Std Dev 0

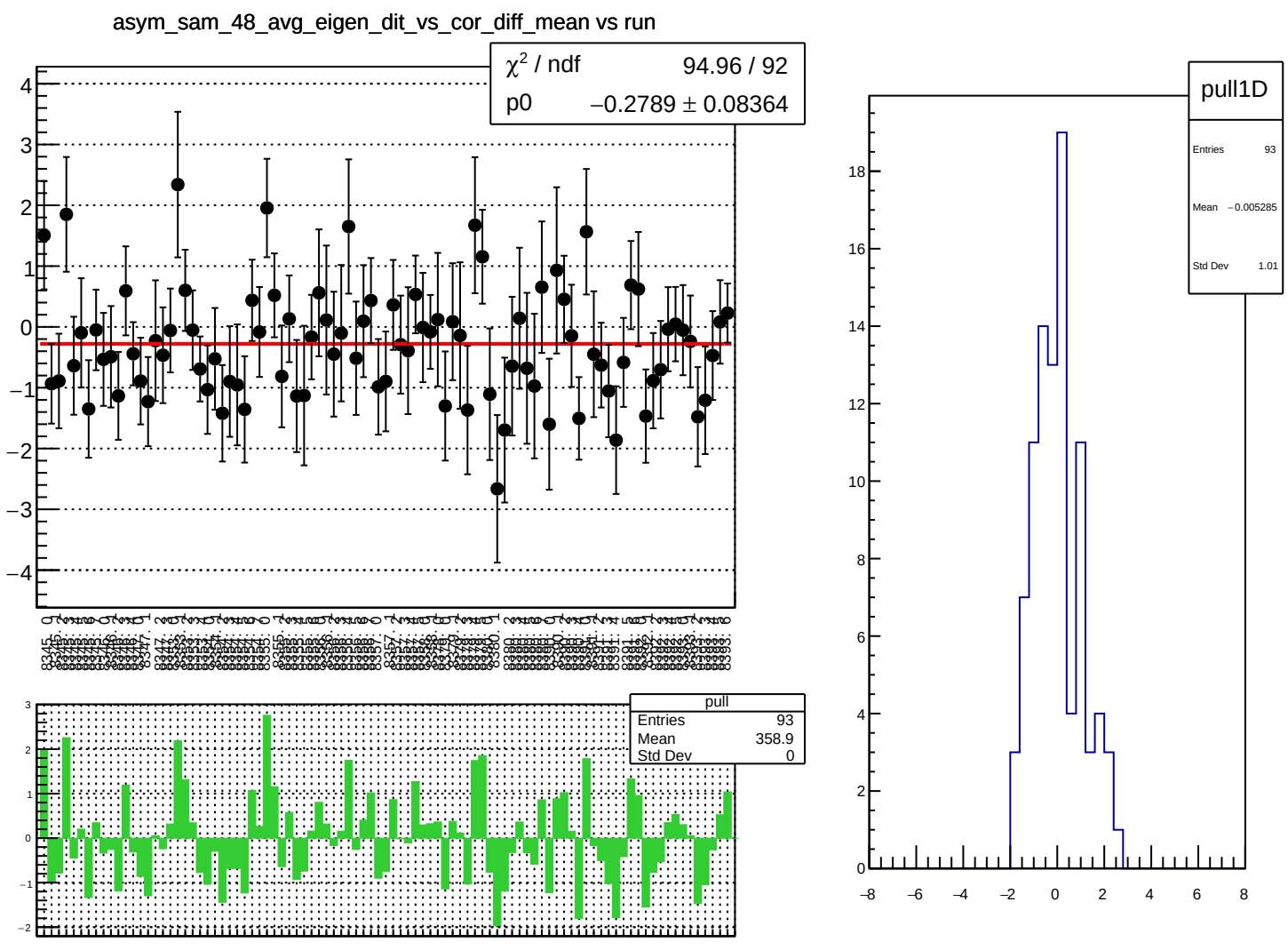

pull1D
Entries 93
Mean −0.005287
Std Dev 1.01

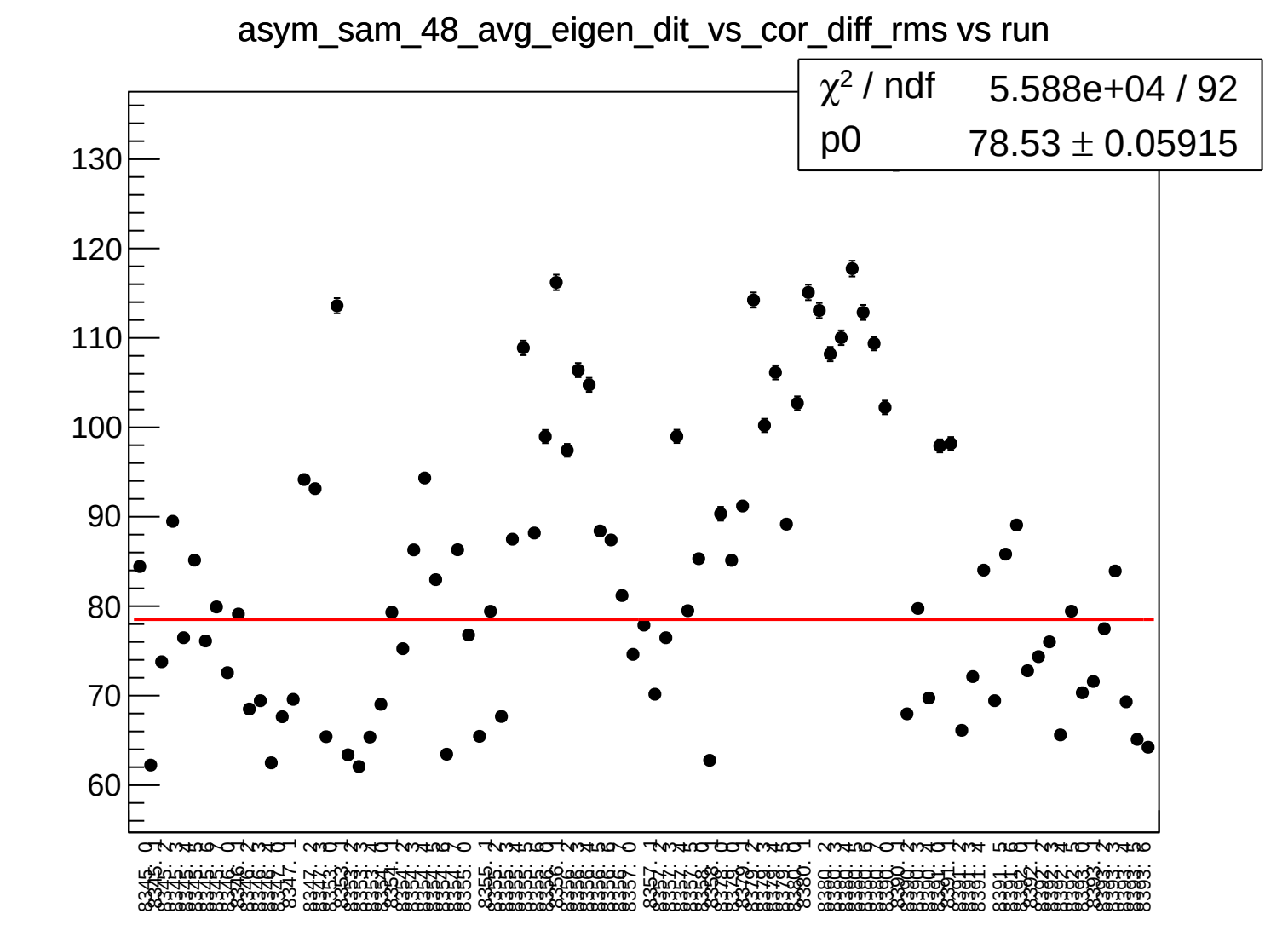

asym_sam_48_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.588e+04 / 92
p0 78.53 ± 0.05914
130
120
110
100
90
80
70
60

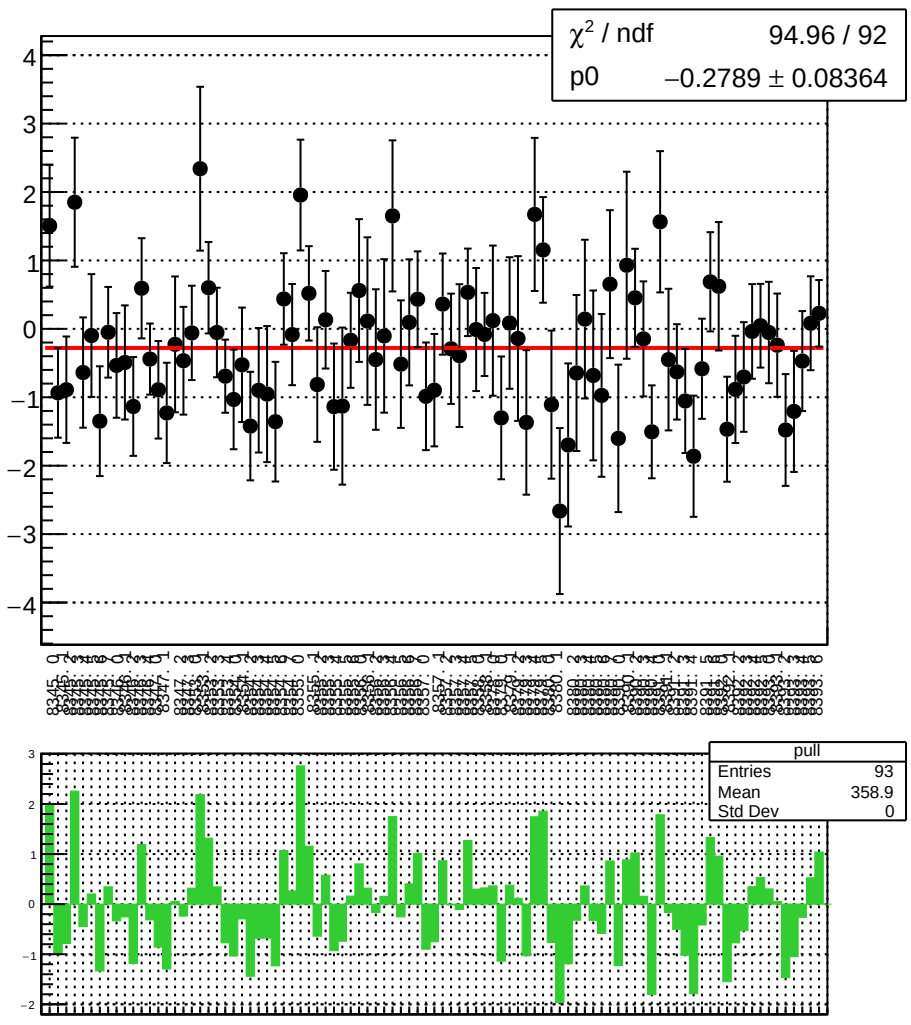

asym_sam_48_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 134.6 / 92
p0 2.887e−06 ± 3.579e−06
0.3
0.2
0.1
0
−0.1
−0.2
pull
Entries 93
Mean 139.1
Std Dev 0
3
2
1
0
−1
−2

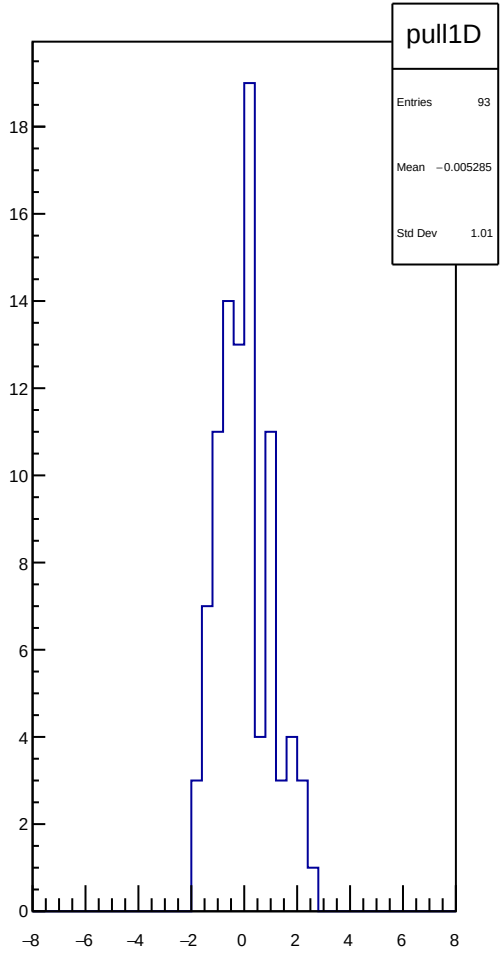

pull1D
Entries 93
Mean 0.1273
Std Dev 1.196
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

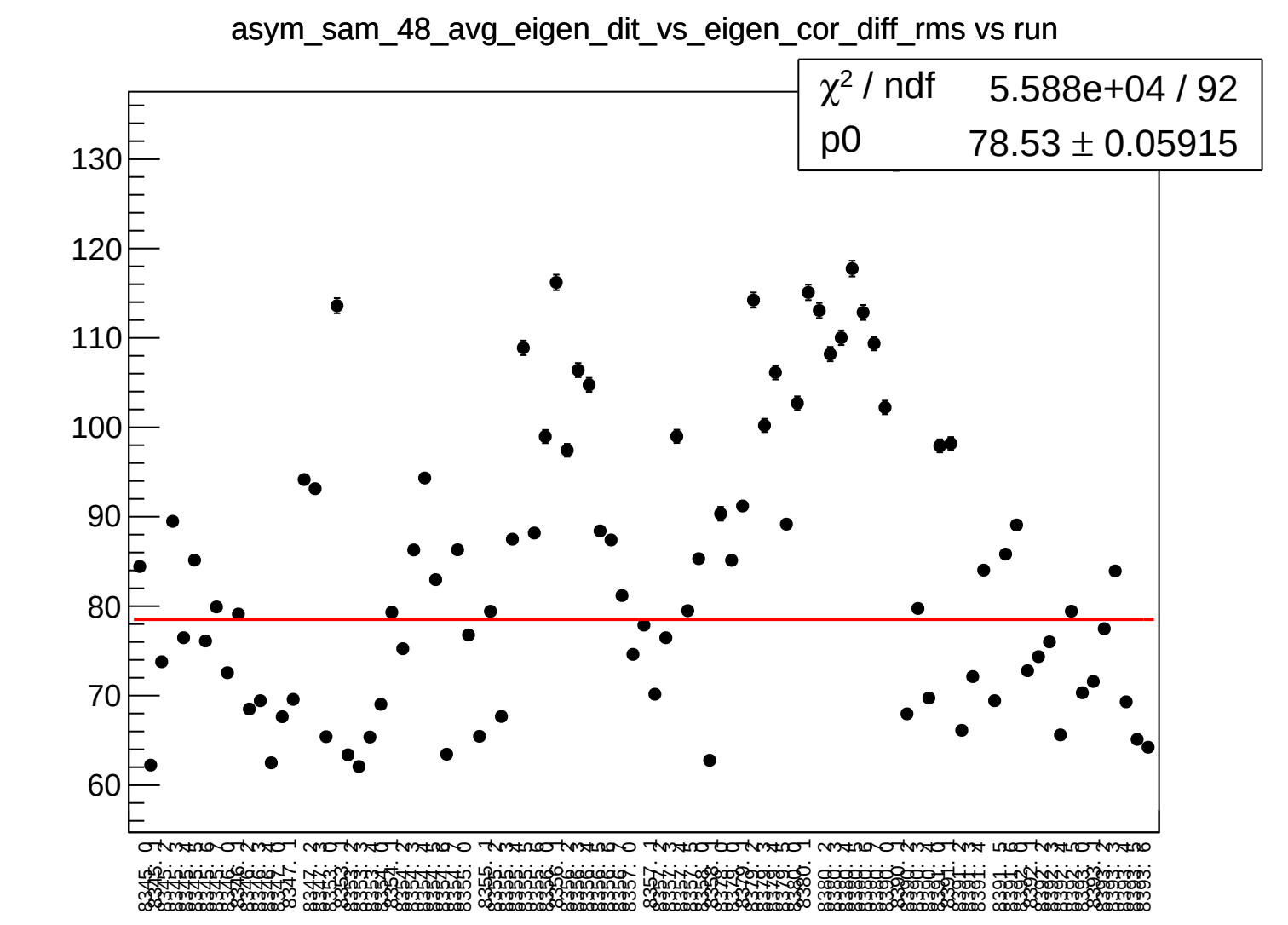

asym_sam_48_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.306e+05 / 92
p0 0.003288 ± 2.531e−06
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025

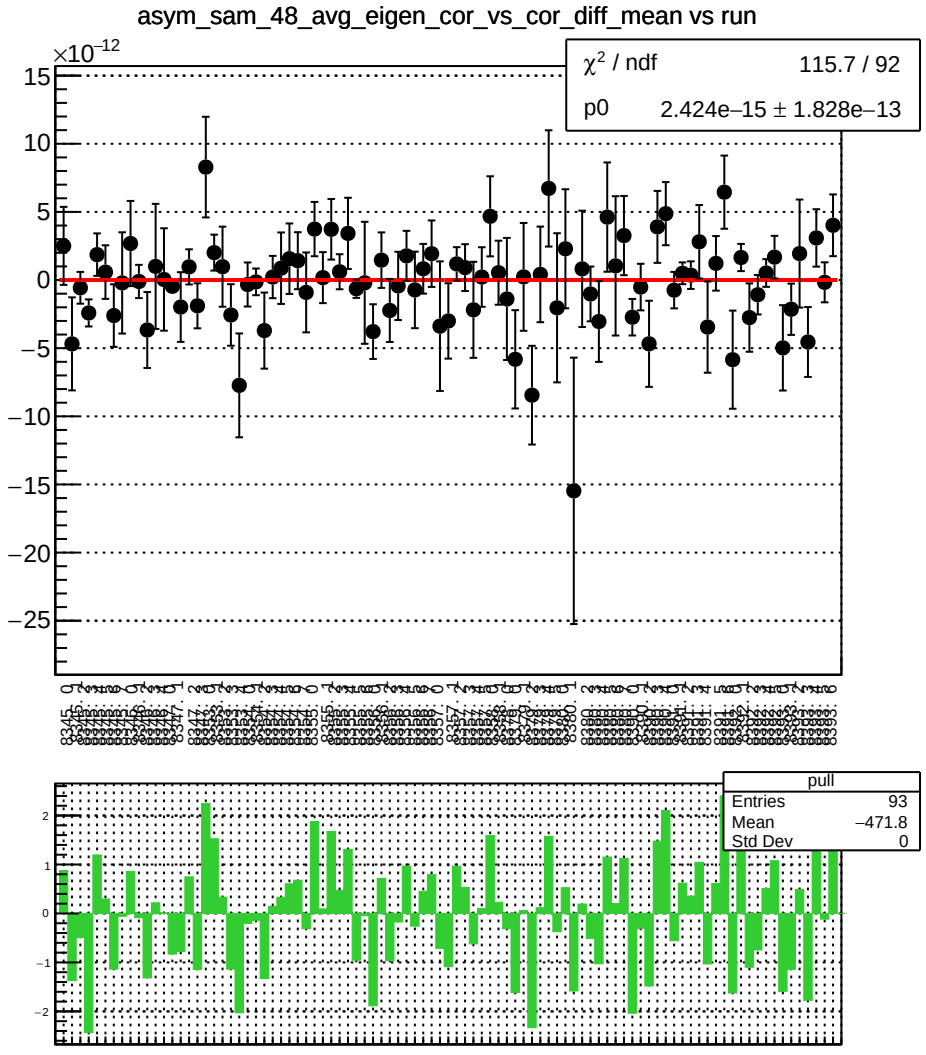

asym_sam_48_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.96 / 92
p0 −0.2789 ± 0.08364
pull
Entries 93
Mean 358.9
Std Dev 0
pull1D
Entries 93
Mean −0.005285
Std Dev 1.01

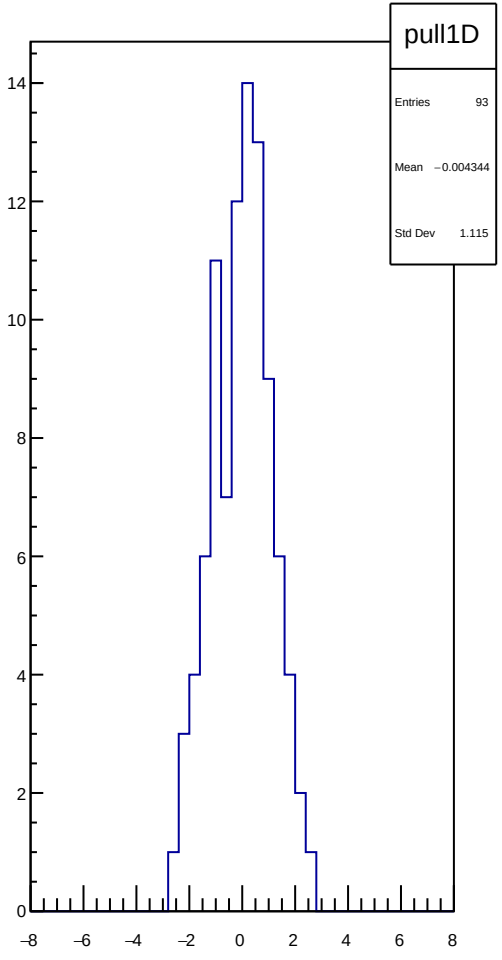

asym_sam_48_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.588e+04 / 92
p0 78.53 ± 0.05915
130
120
110
100
90
80
70
60

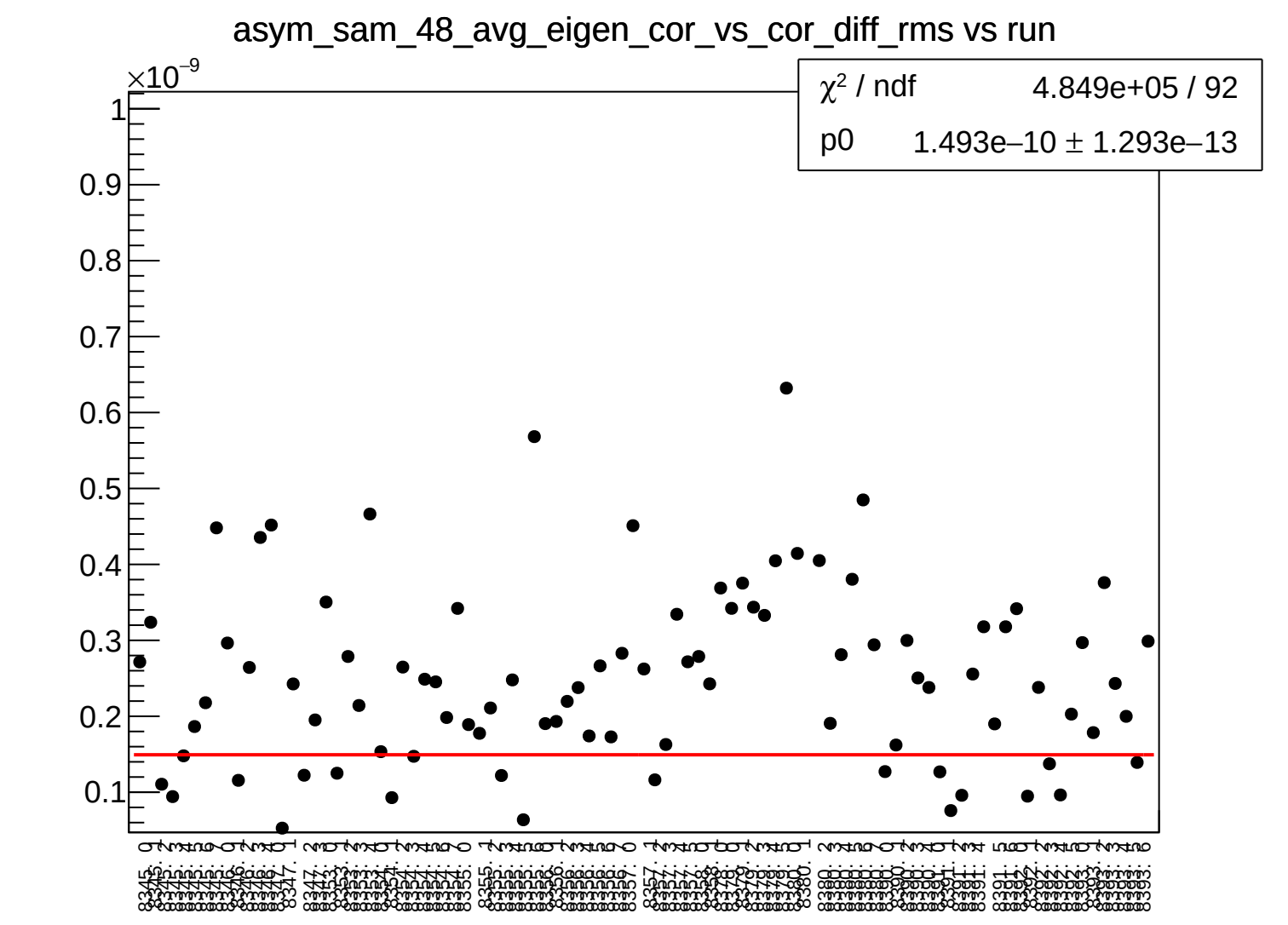

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.96 / 92
p0 −0.2789 ± 0.08364
pull
Entries 93
Mean 358.9
Std Dev 0

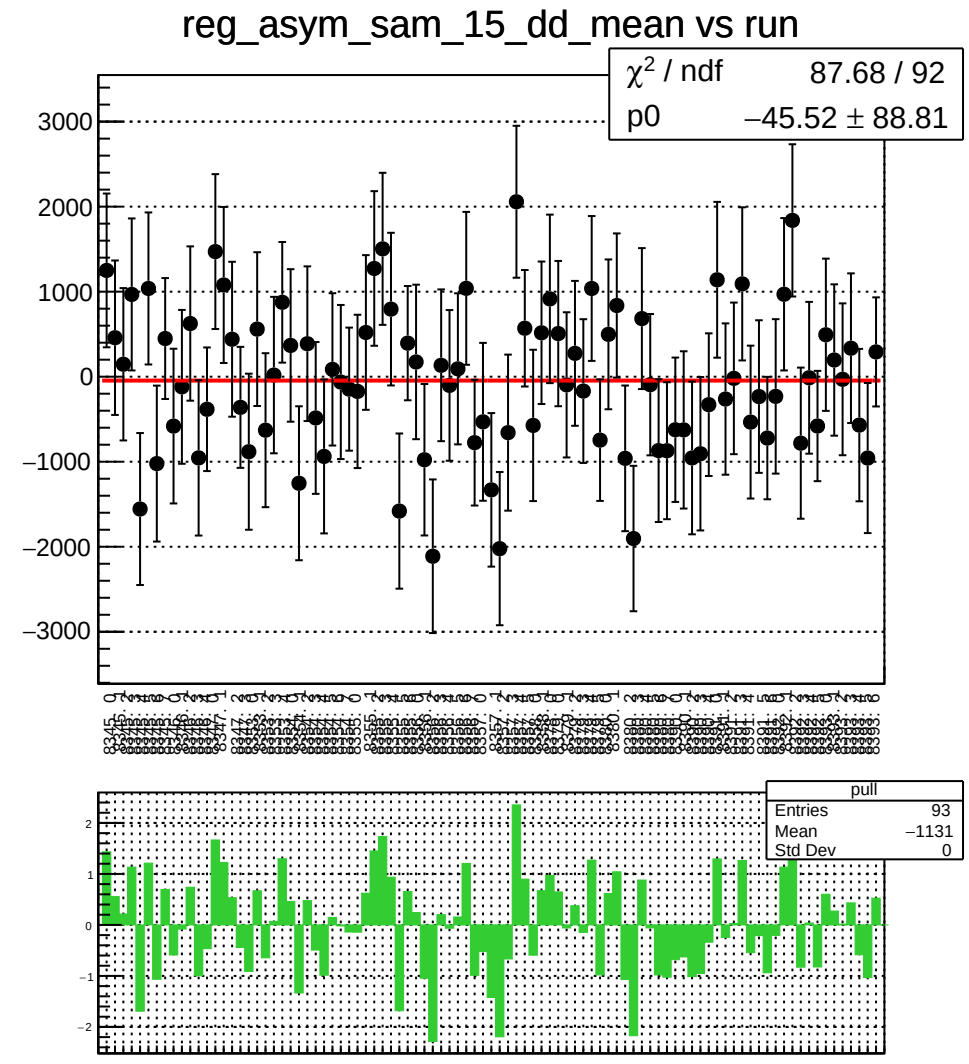

pull1D
Entries 93
Mean −0.005285
Std Dev 1.01

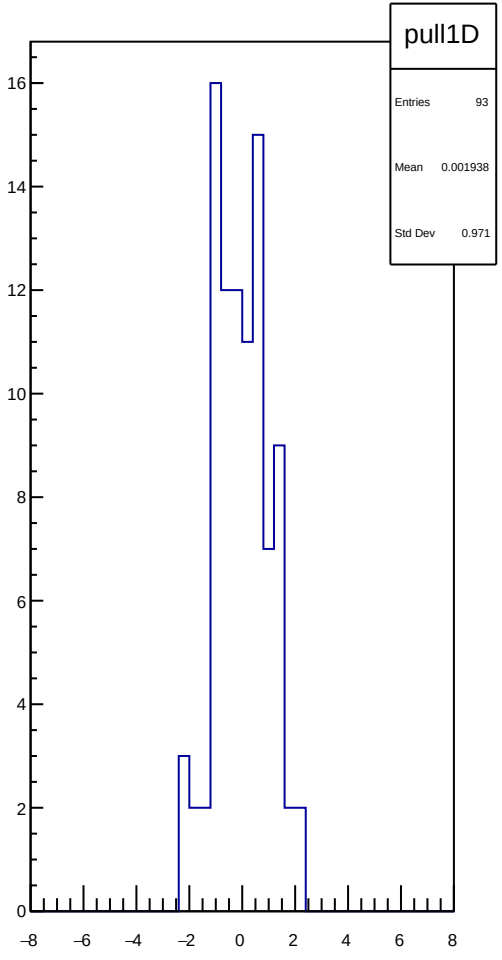

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.588e+04 / 92
p0 78.53 ± 0.05915
130
120
110
100
90
80
70
60

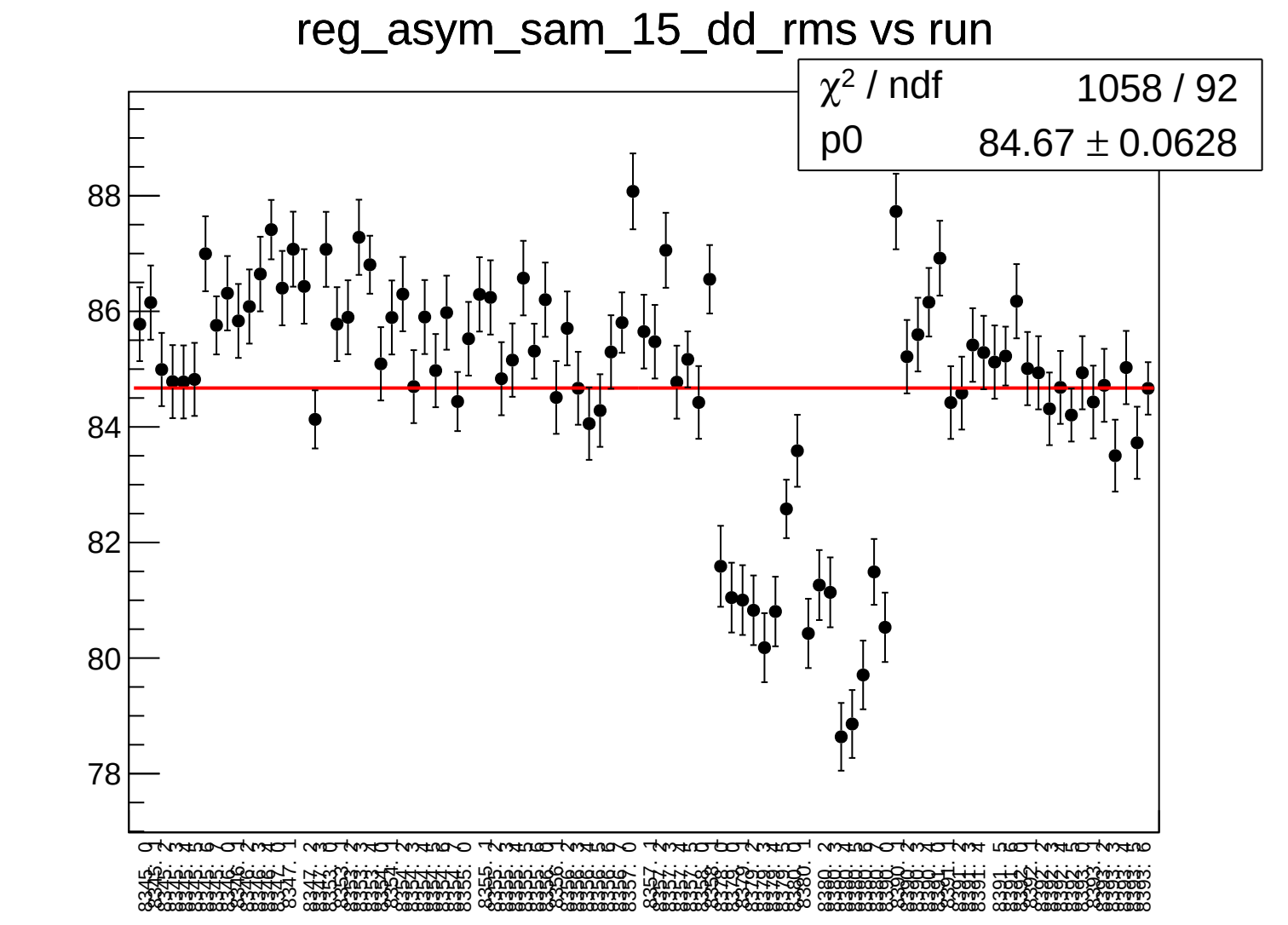

asym_sam_48_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 115.7 / 92
p0 2.424e−15 ± 1.828e−13
pull
Entries 93
Mean −471.8
Std Dev 0

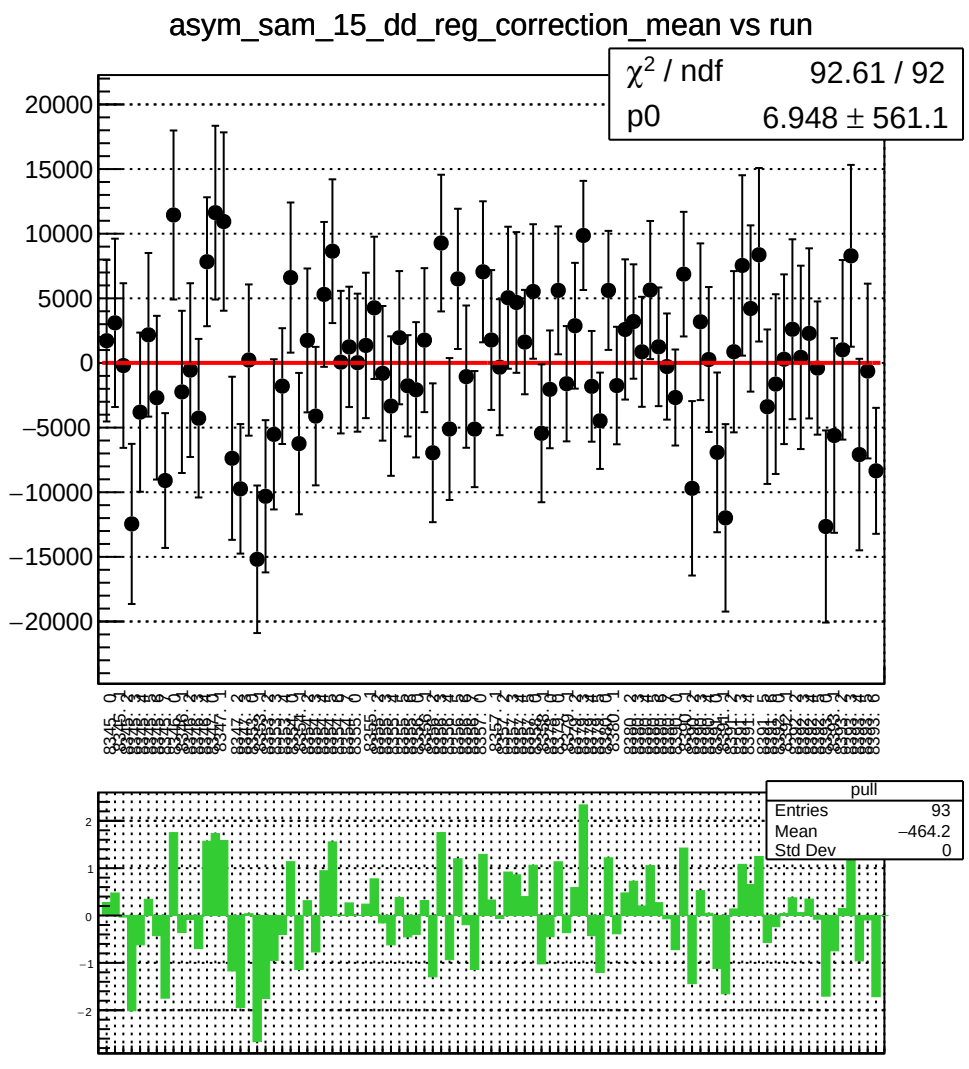

pull1D
Entries 93
Mean −0.004344
Std Dev 1.115

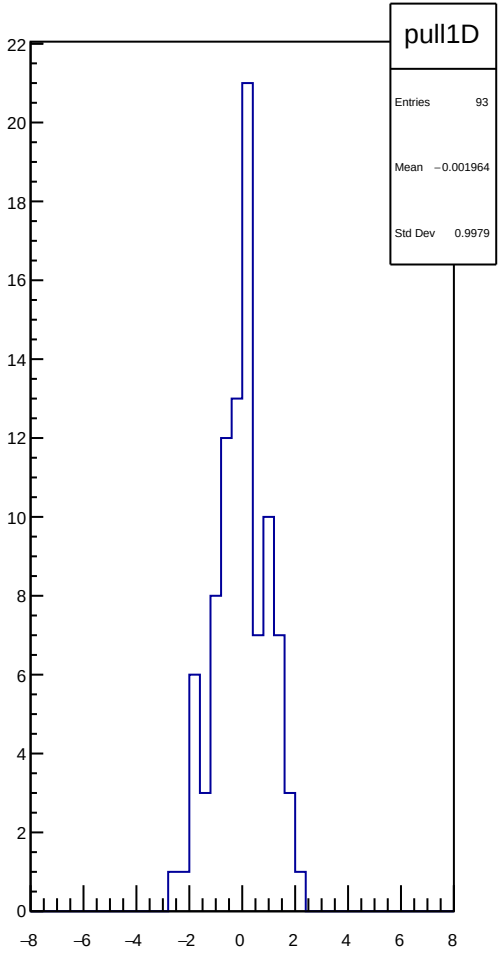

asym_sam_48_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.849e+05 / 92
p0 1.493e−10 ± 1.293e−13
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

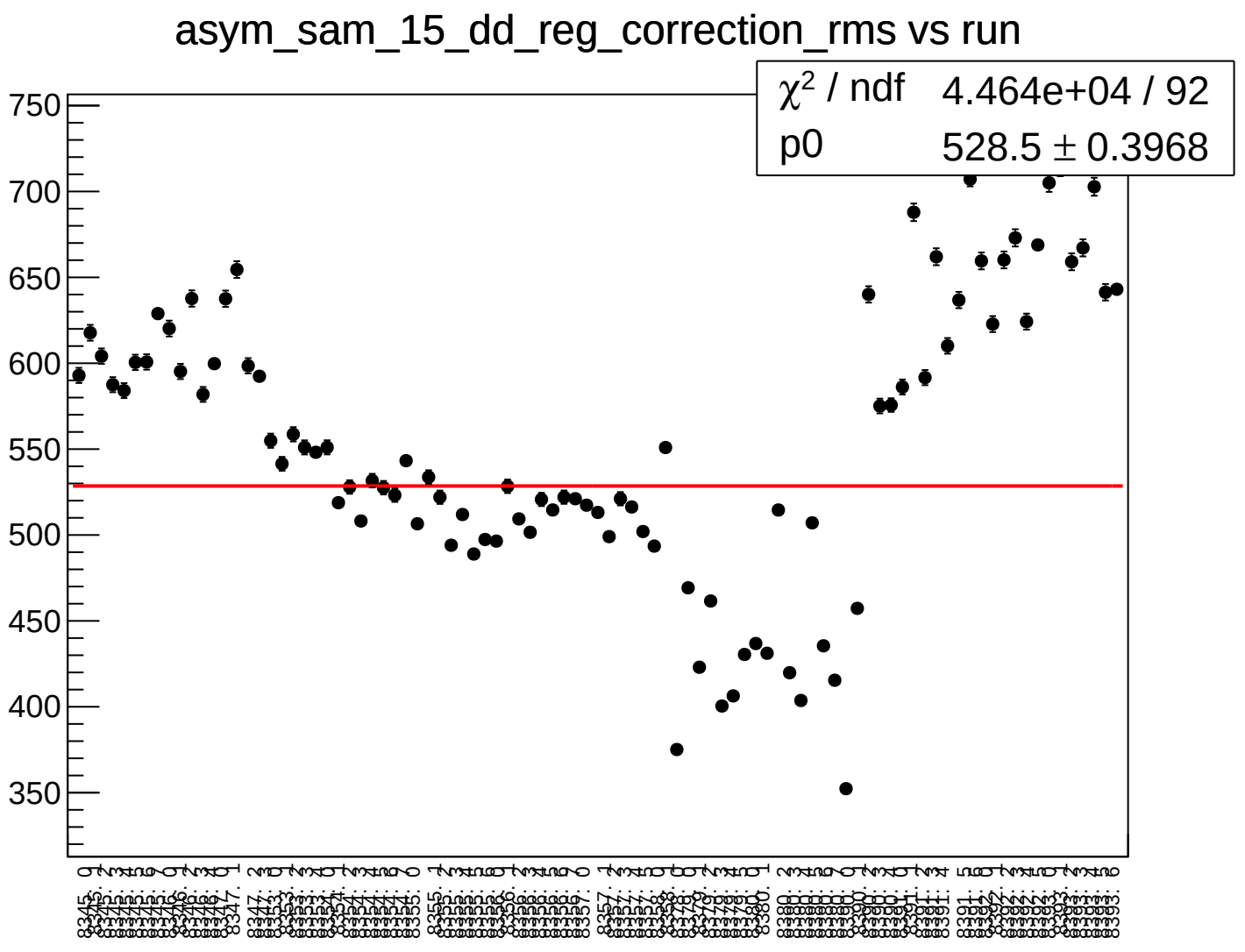

reg_asym_sam_15_dd_mean vs run
χ² / ndf 87.68 / 92
p0 −45.52 ± 88.81
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean −1131
Std Dev 0
2
1
0
−1
−2

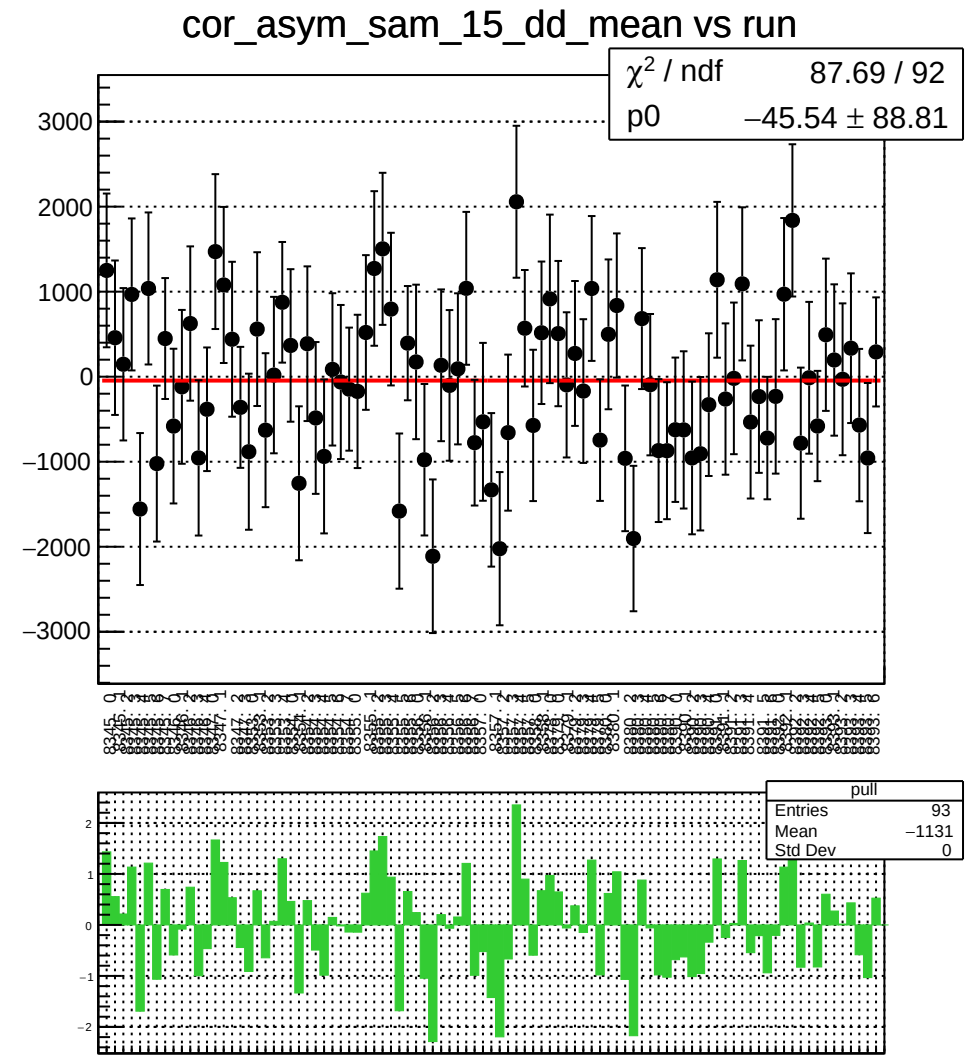

pull1D
Entries 93
Mean 0.001938
Std Dev 0.971
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

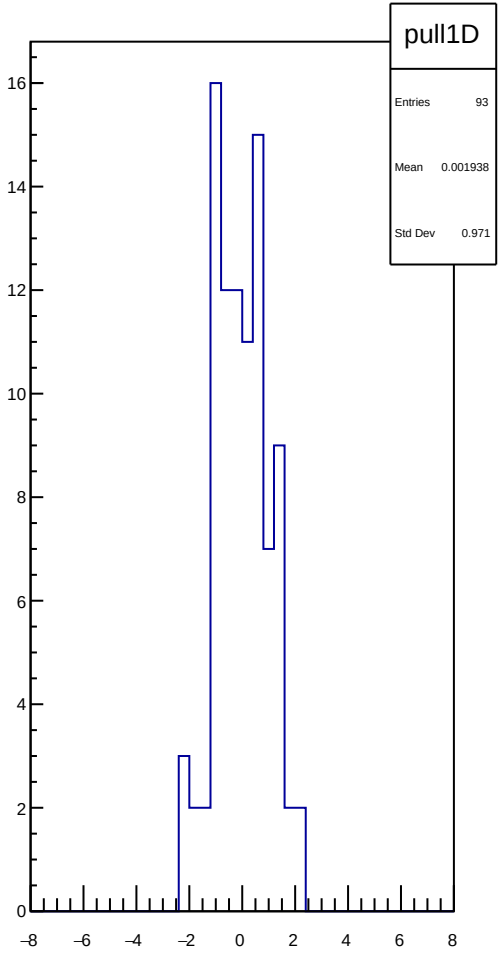

reg_asym_sam_15_dd_rms vs run
χ² / ndf 1058 / 92
p0 84.67 ± 0.0628
88
86
84
82
80
78

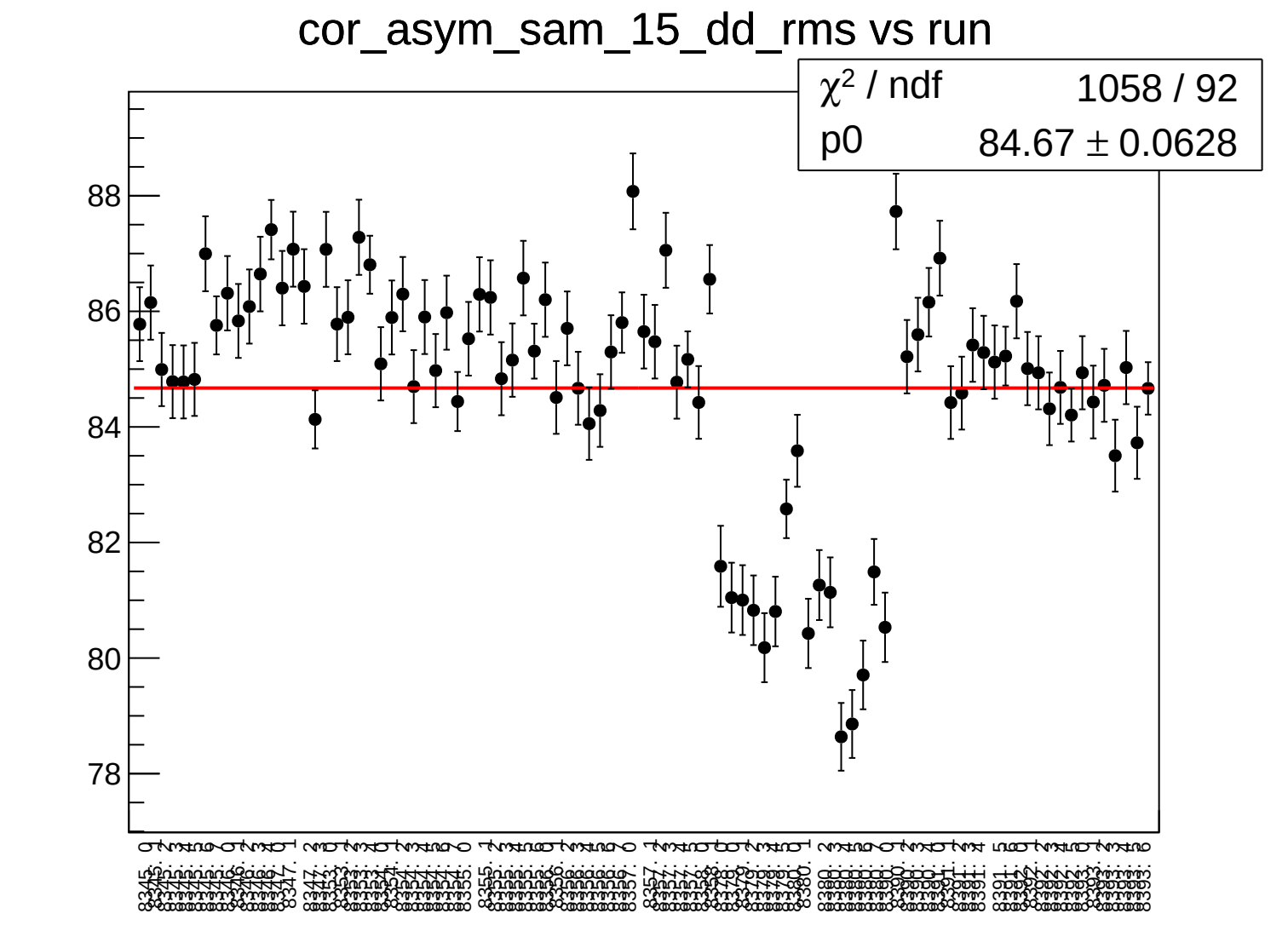

asym_sam_15_dd_reg_correction_mean vs run
χ² / ndf 92.61 / 92
p0 6.948 ± 561.1
pull
Entries 93
Mean −464.2
Std Dev 0

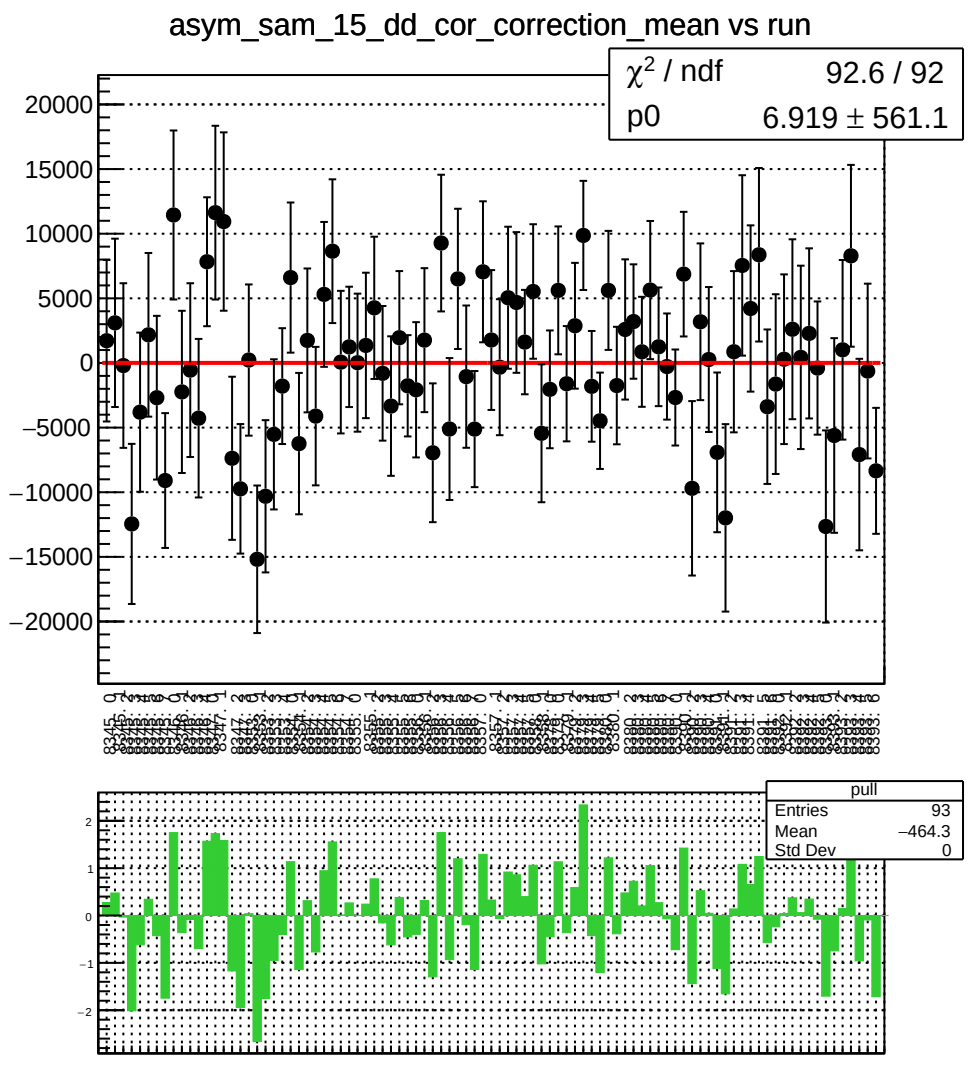

pull1D
Entries 93
Mean −0.001964
Std Dev 0.9979

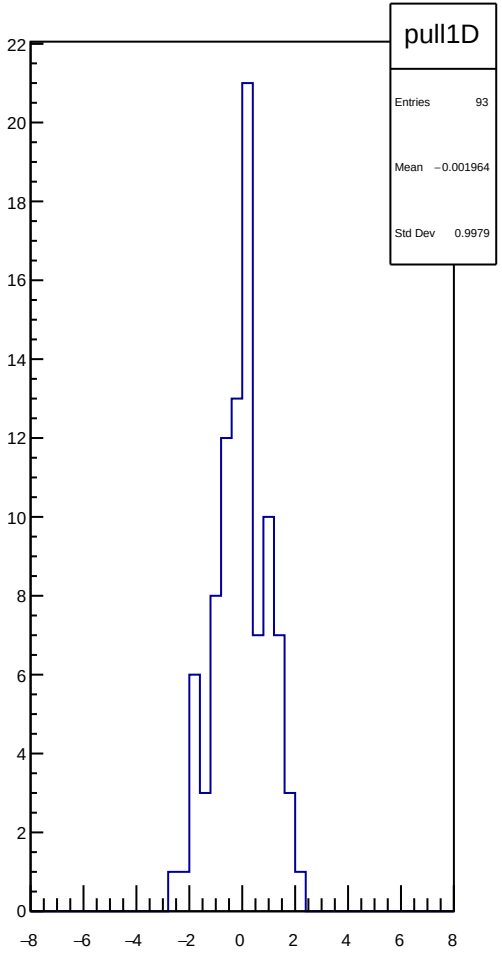

asym_sam_15_dd_reg_correction_rms vs run
χ² / ndf 4.464e+04 / 92
p0 528.5 ± 0.3968
750
700
650
600
550
500
450
400
350

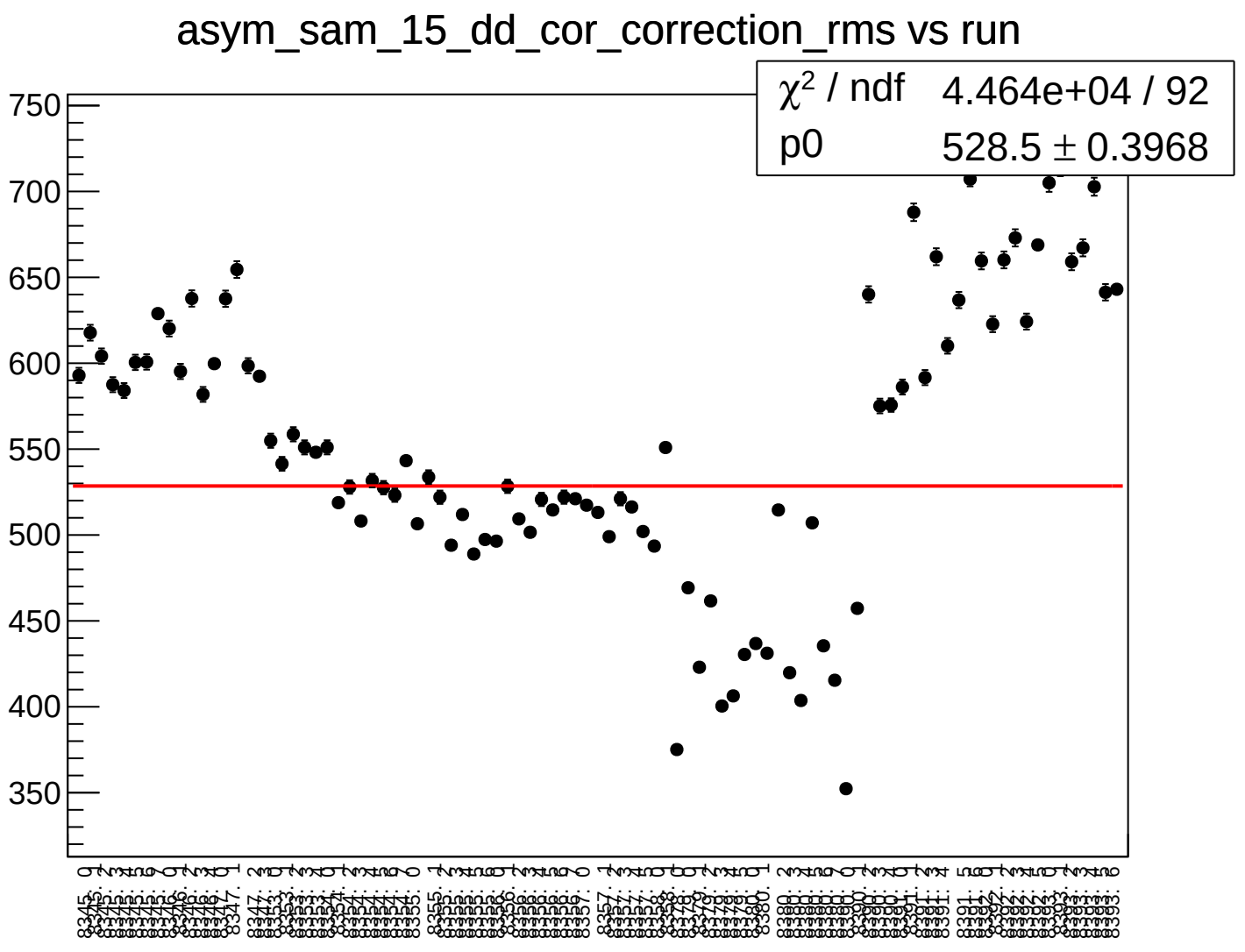

cor_asym_sam_15_dd_mean vs run
χ² / ndf 87.69 / 92
p0 −45.54 ± 88.81
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean −1131
Std Dev 0
2
1
0
−1
−2

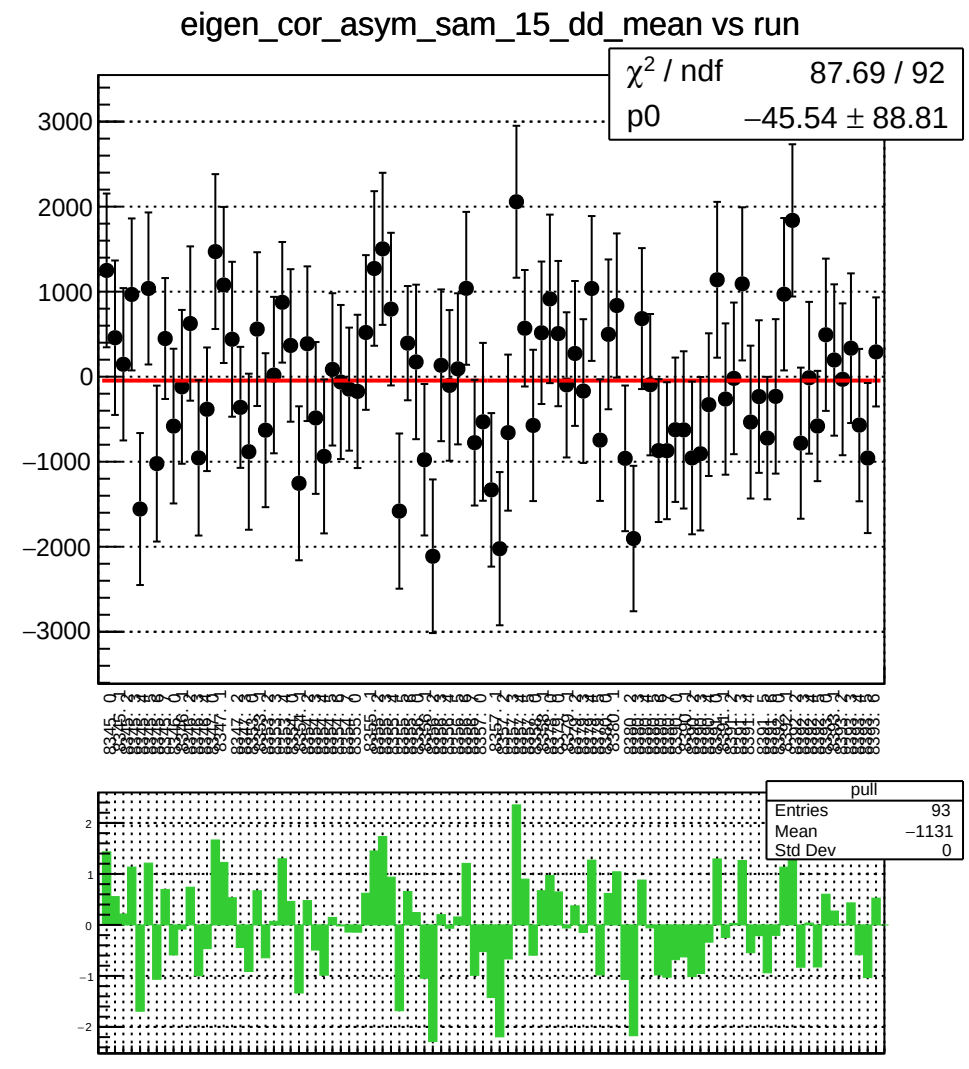

pull1D
Entries 93
Mean 0.001938
Std Dev 0.971
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

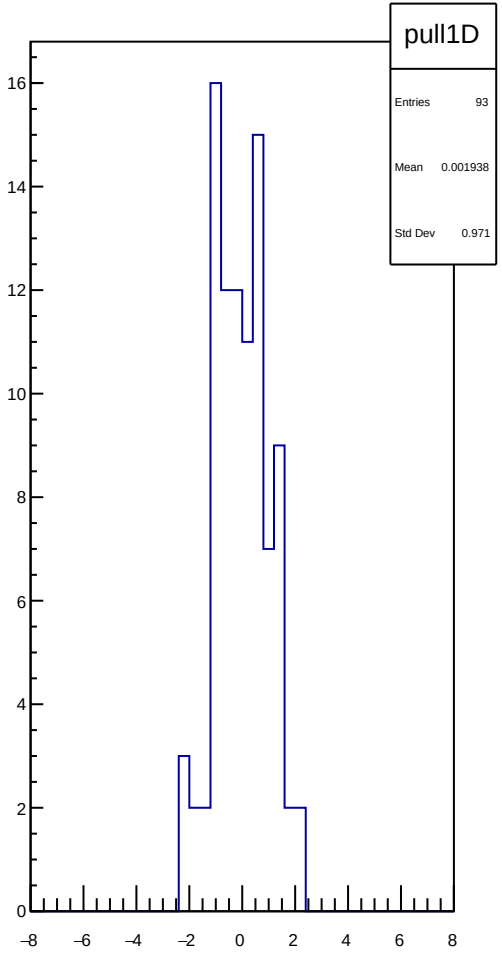

cor_asym_sam_15_dd_rms vs run
χ² / ndf 1058 / 92
p0 84.67 ± 0.0628
88
86
84
82
80
78

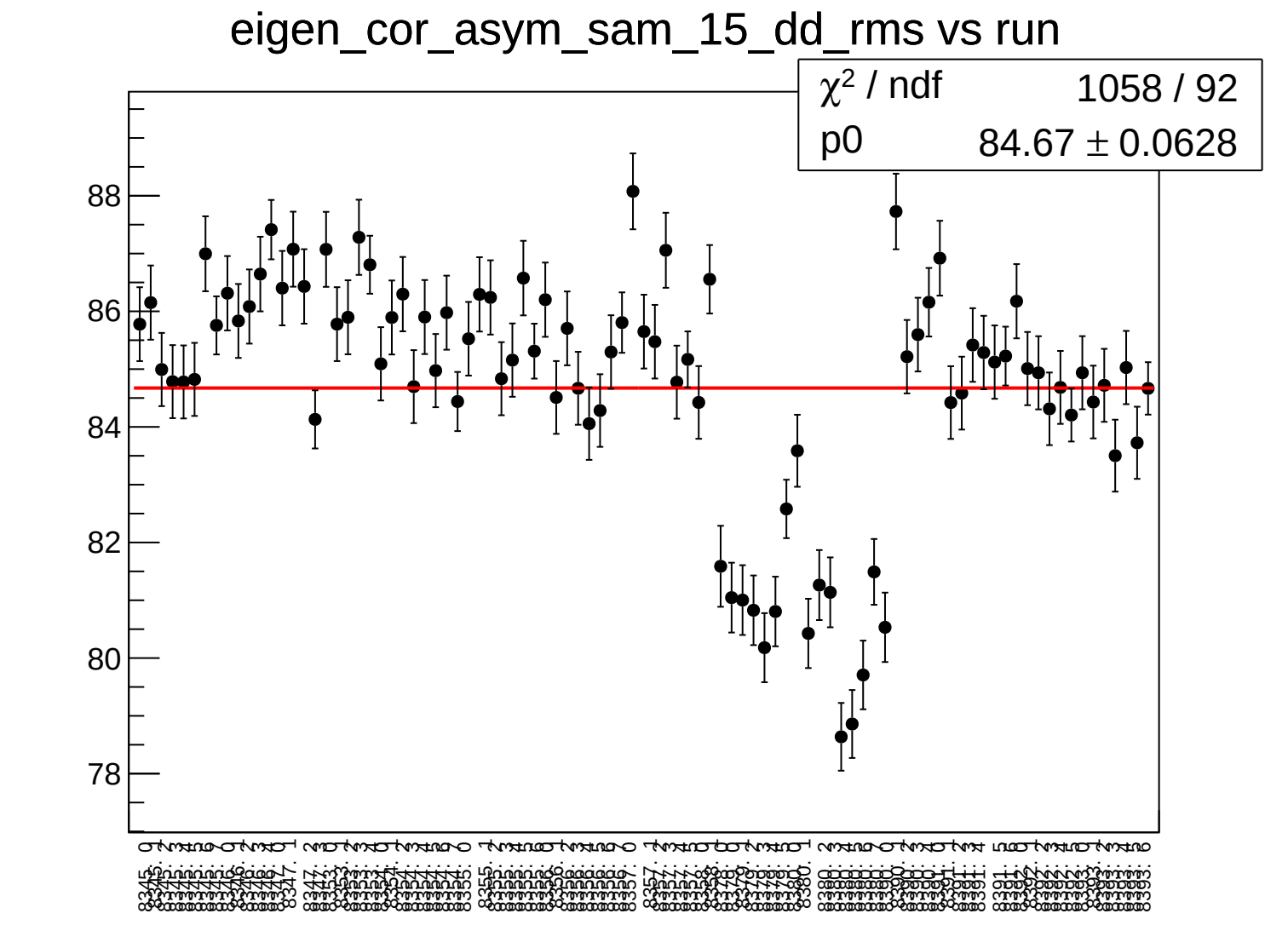

asym_sam_15_dd_cor_correction_mean vs run
χ² / ndf 92.6 / 92
p0 6.919 ± 561.1
pull
Entries 93
Mean −464.3
Std Dev 0

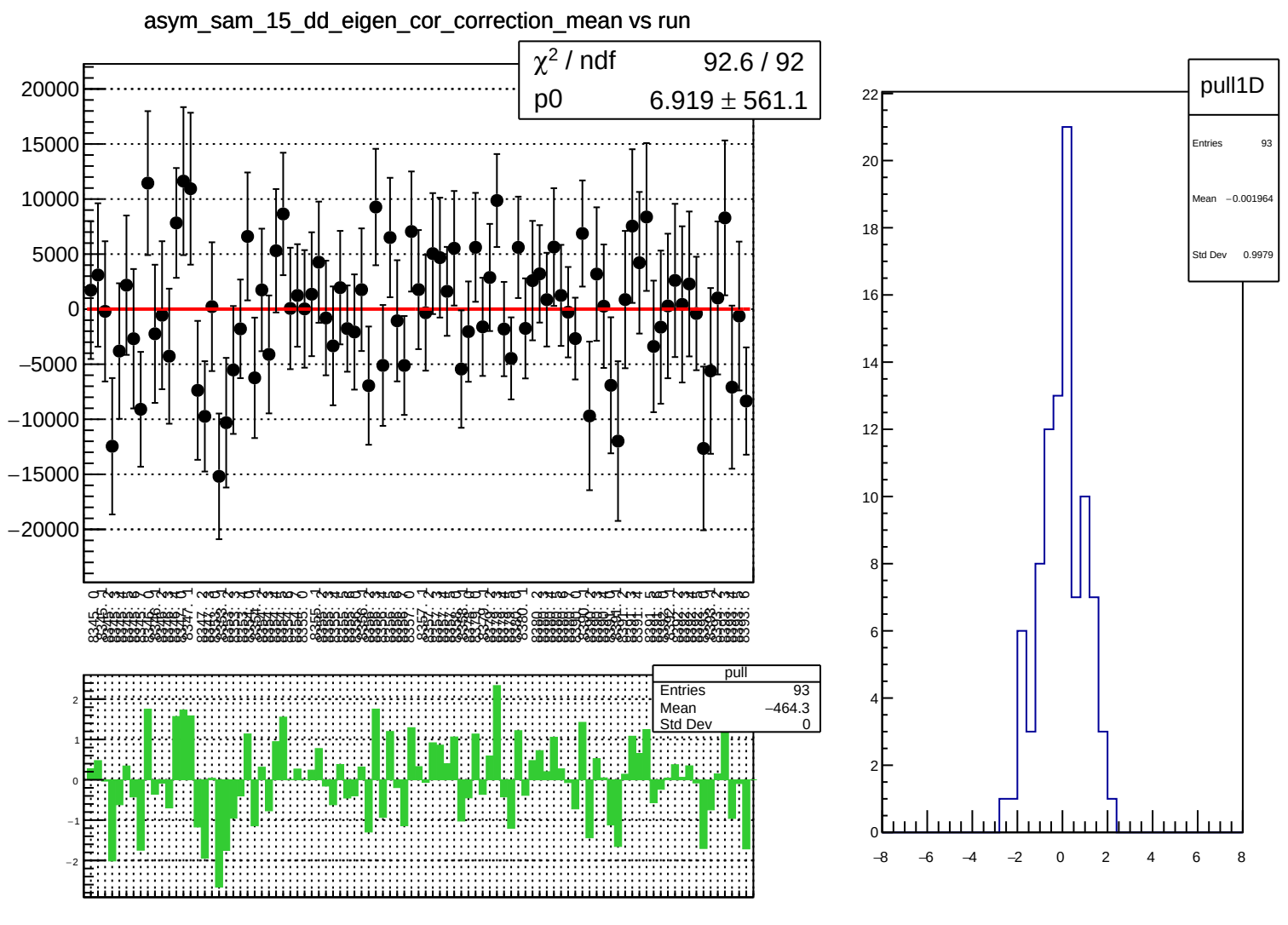

pull1D
Entries 93
Mean −0.001964
Std Dev 0.9979

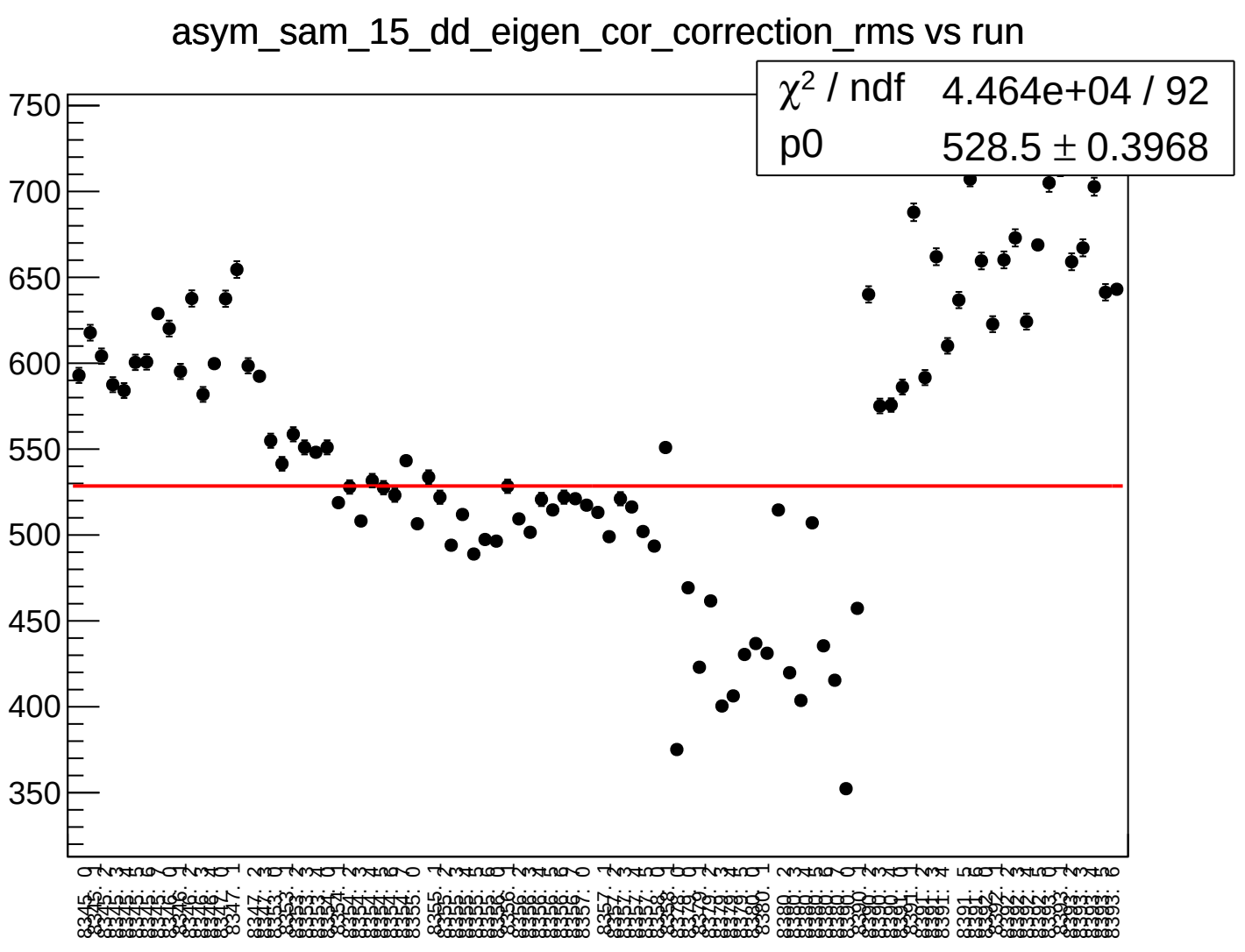

asym_sam_15_dd_cor_correction_rms vs run
χ² / ndf 4.464e+04 / 92
p0 528.5 ± 0.3968
750
700
650
600
550
500
450
400
350

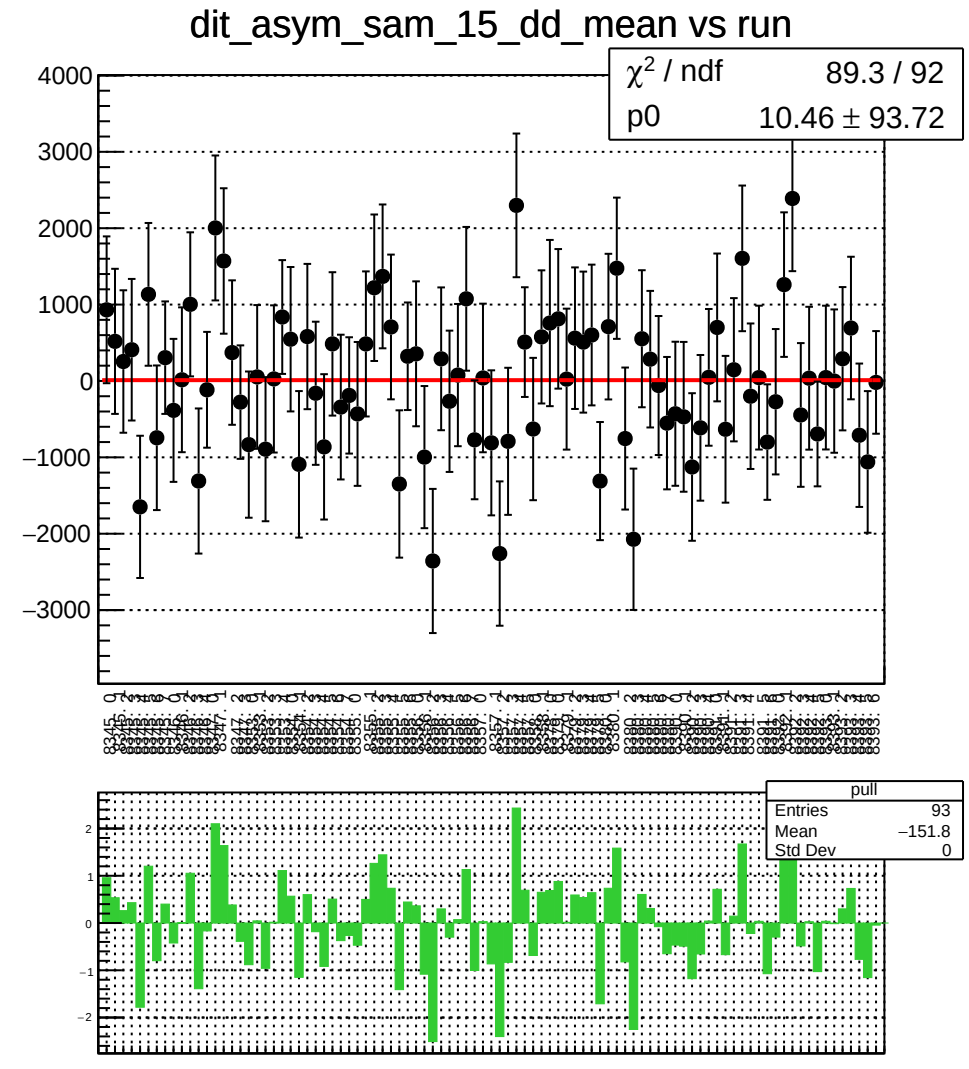

eigen_cor_asym_sam_15_dd_mean vs run
χ² / ndf 87.69 / 92
p0 −45.54 ± 88.81
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean −1131
Std Dev 0
2
1
0
−1
−2

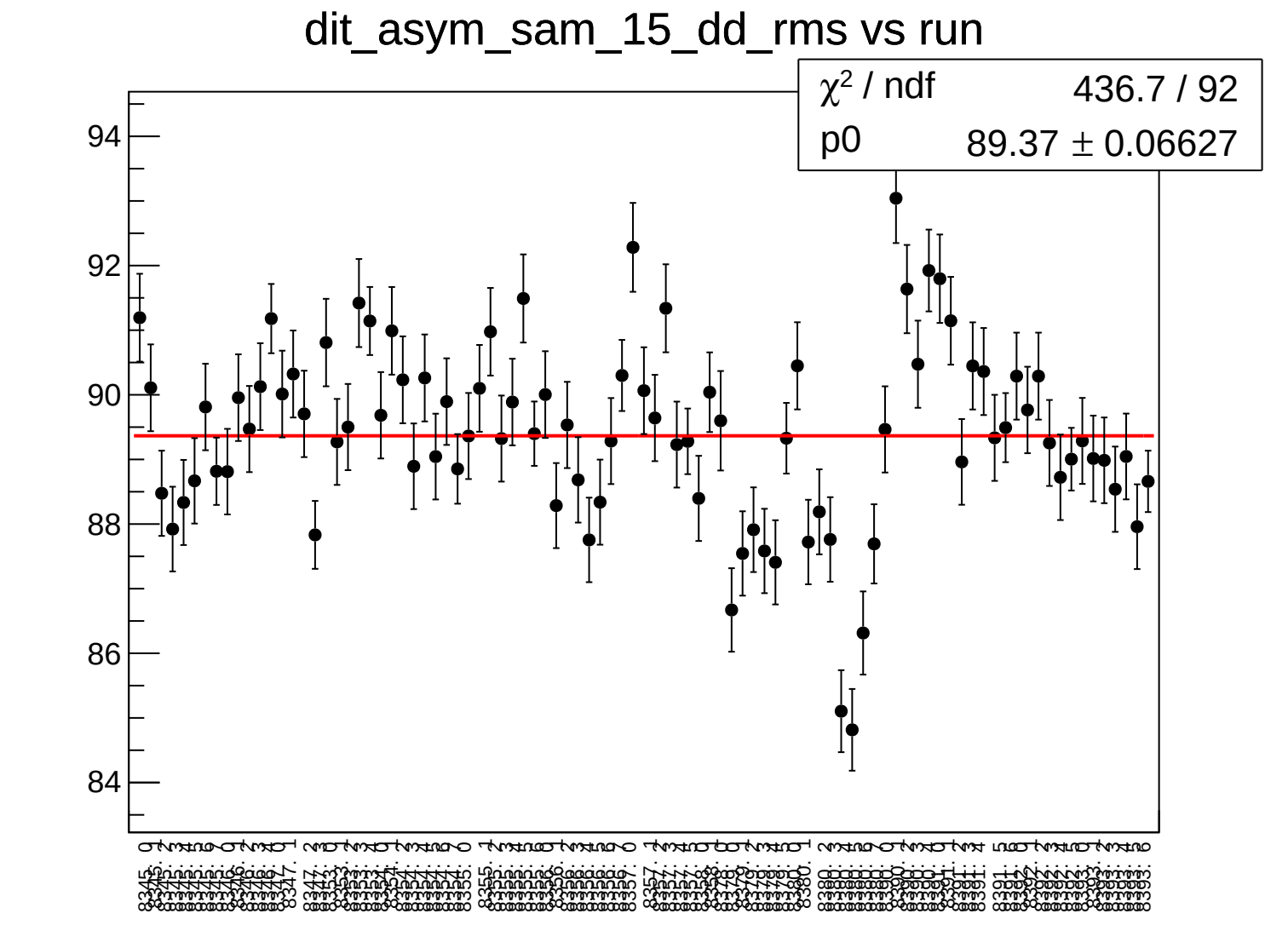

pull1D
Entries 93
Mean 0.001938
Std Dev 0.971
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

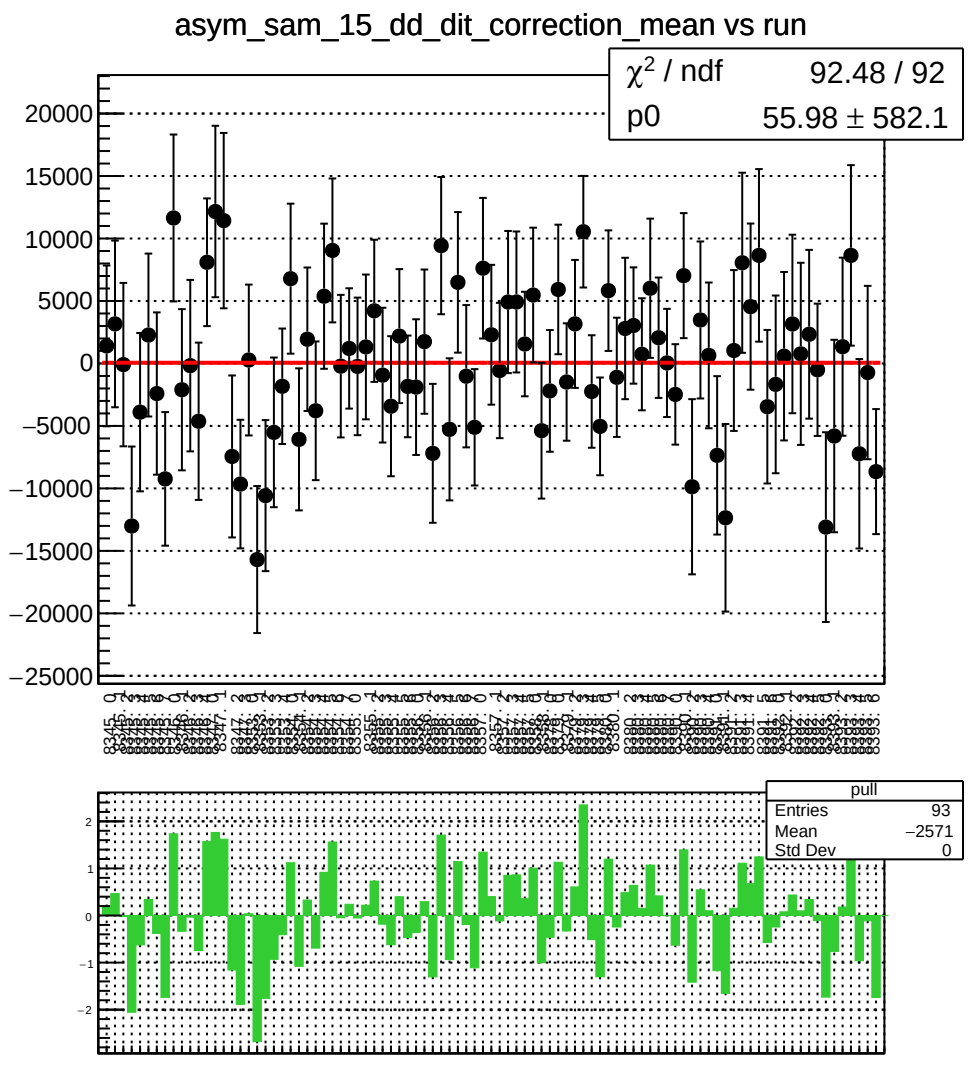

eigen_cor_asym_sam_15_dd_rms vs run
χ² / ndf 1058 / 92
p0 84.67 ± 0.0628
88
86
84
82
80
78

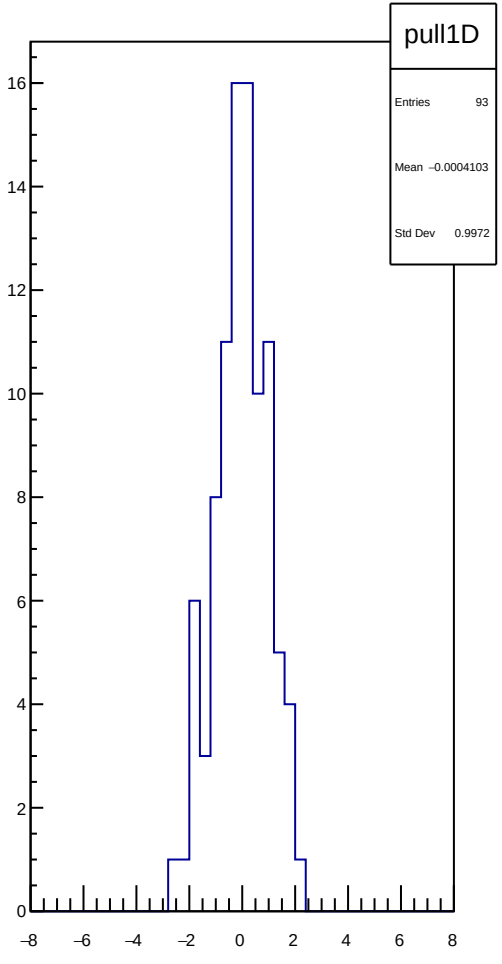

asym_sam_15_dd_eigen_cor_correction_mean vs run
χ² / ndf 92.6 / 92
p0 6.919 ± 561.1
pull
Entries 93
Mean −464.3
Std Dev 0
pull1D
Entries 93
Mean −0.001964
Std Dev 0.9979

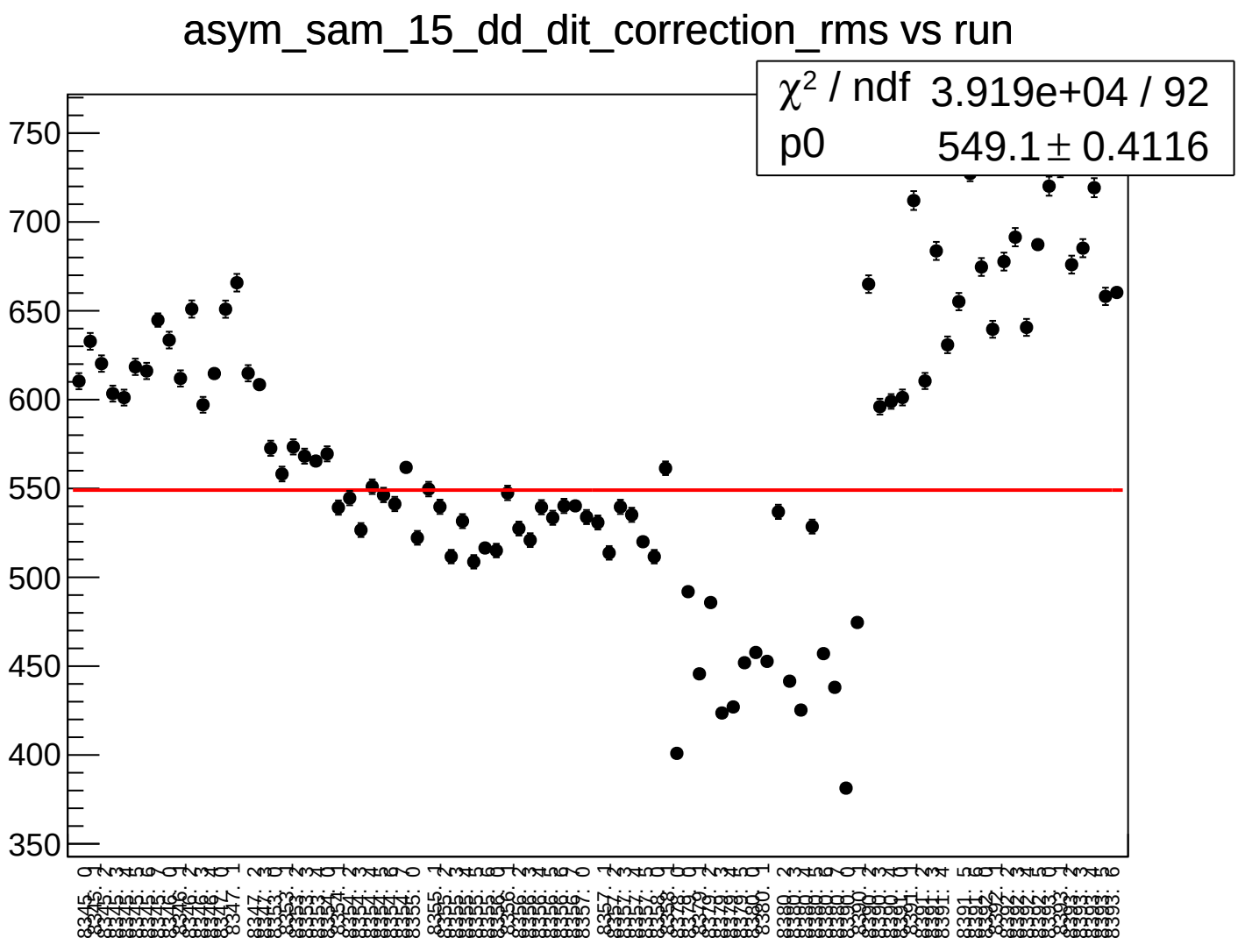

asym_sam_15_dd_eigen_cor_correction_rms vs run
χ² / ndf 4.464e+04 / 92
p0 528.5 ± 0.3968
750
700
650
600
550
500
450
400
350

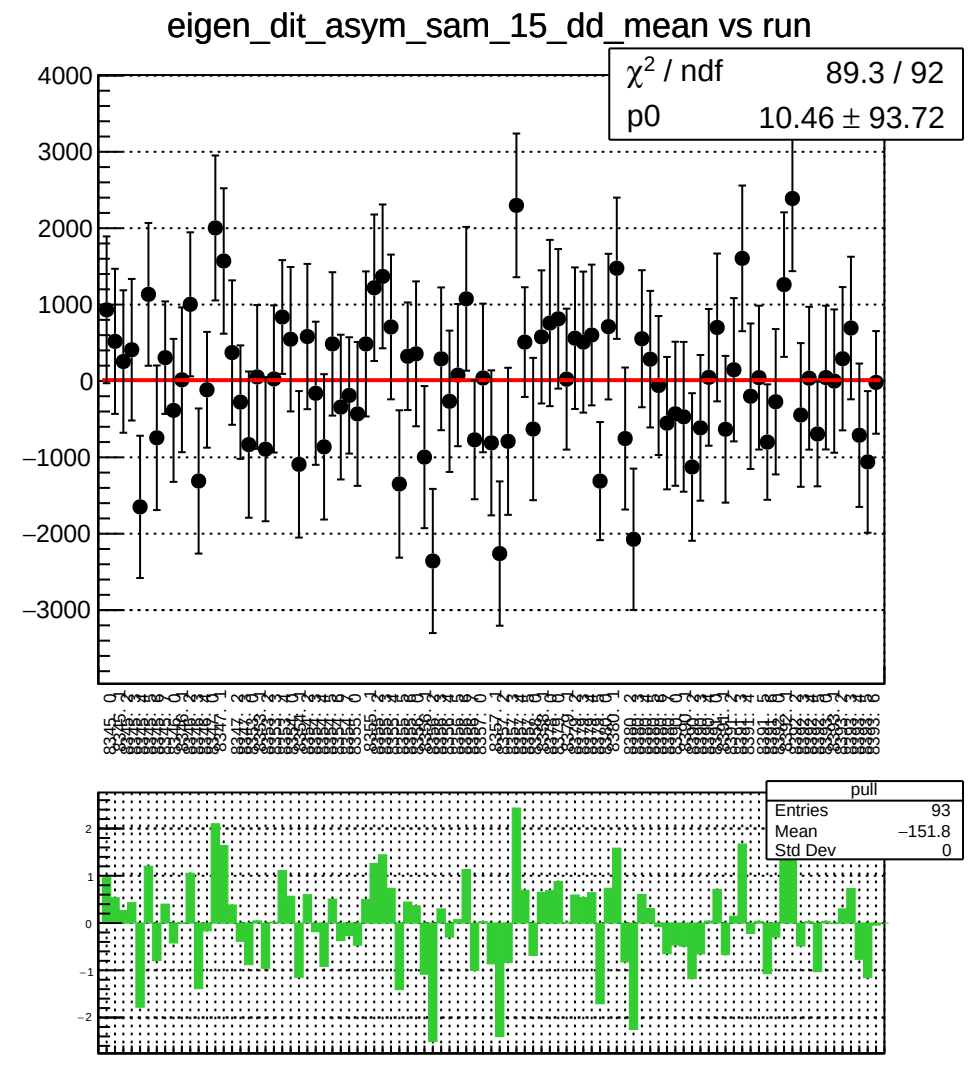

dit_asym_sam_15_dd_mean vs run
χ^2 / ndf 89.3 / 92
p0 10.46 ± 93.72
pull
Entries 93
Mean −151.8
Std Dev 0
pull1D
Entries 93
Mean 0.007531
Std Dev 0.9799

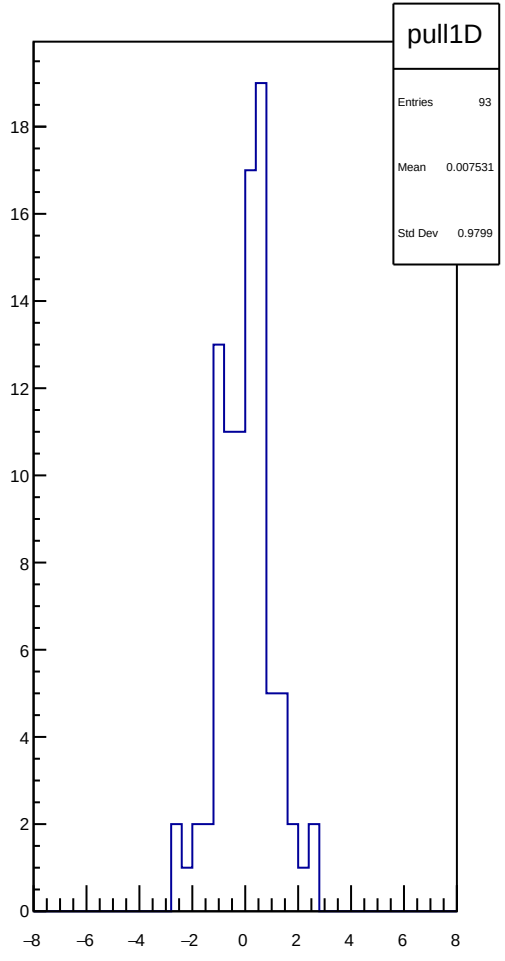

dit_asym_sam_15_dd_rms vs run
χ² / ndf 436.7 / 92
p0 89.37 ± 0.06627
94
92
90
88
86
84

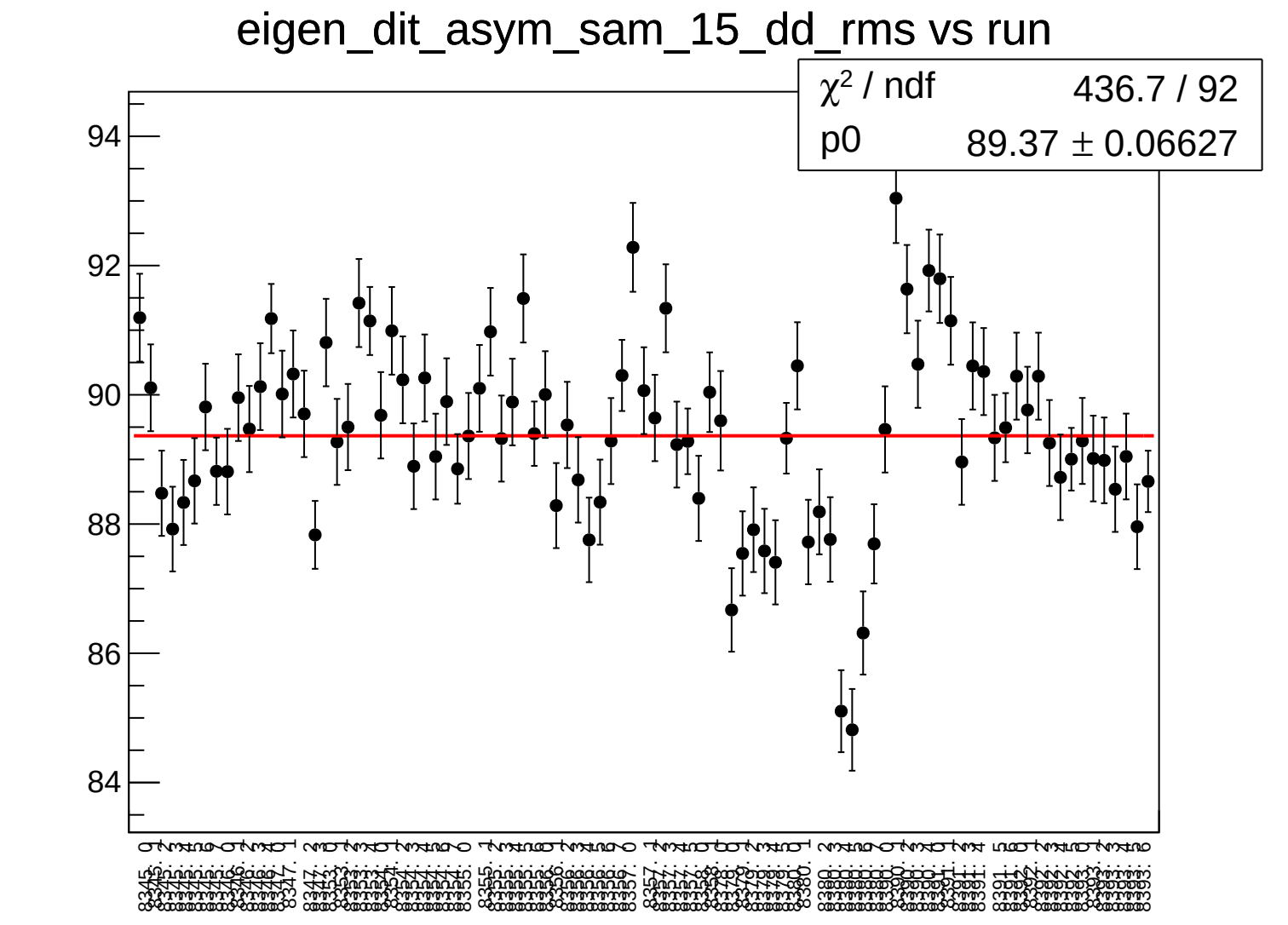

asym_sam_15_dd_dit_correction_mean vs run
χ² / ndf 92.48 / 92
p0 55.98 ± 582.1
pull
Entries 93
Mean −2571
Std Dev 0

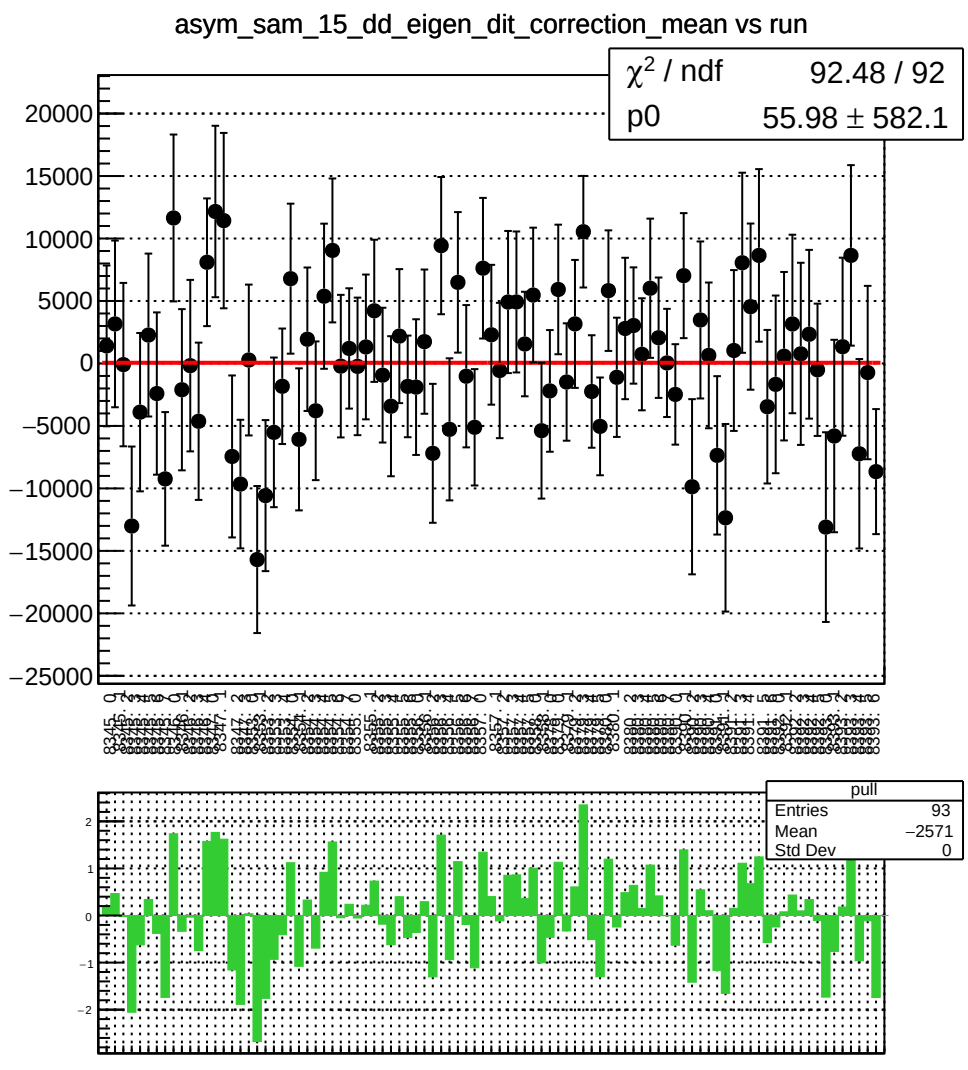

pull1D
Entries 93
Mean −0.0004103
Std Dev 0.9972

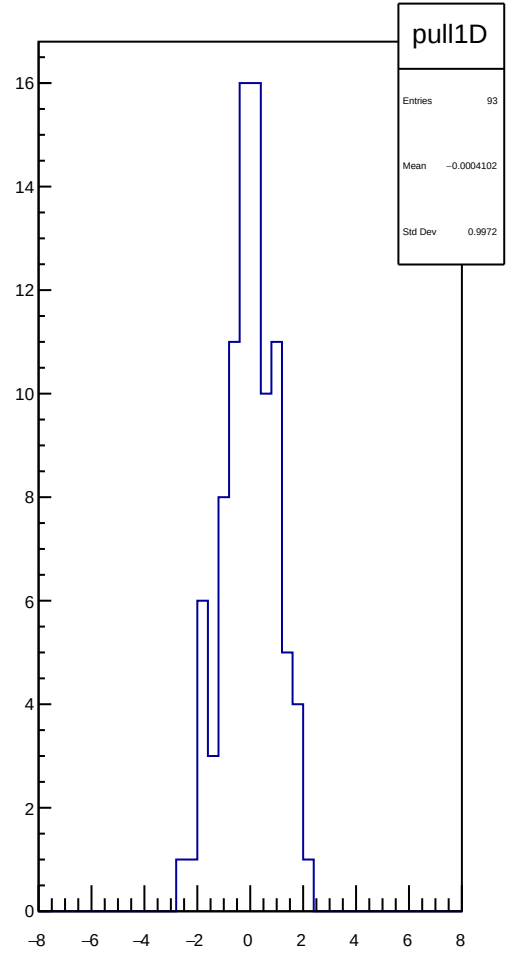

asym_sam_15_dd_dit_correction_rms vs run
χ² / ndf 3.919e+04 / 92
p0 549.1 ± 0.4116
750
700
650
600
550
500
450
400
350

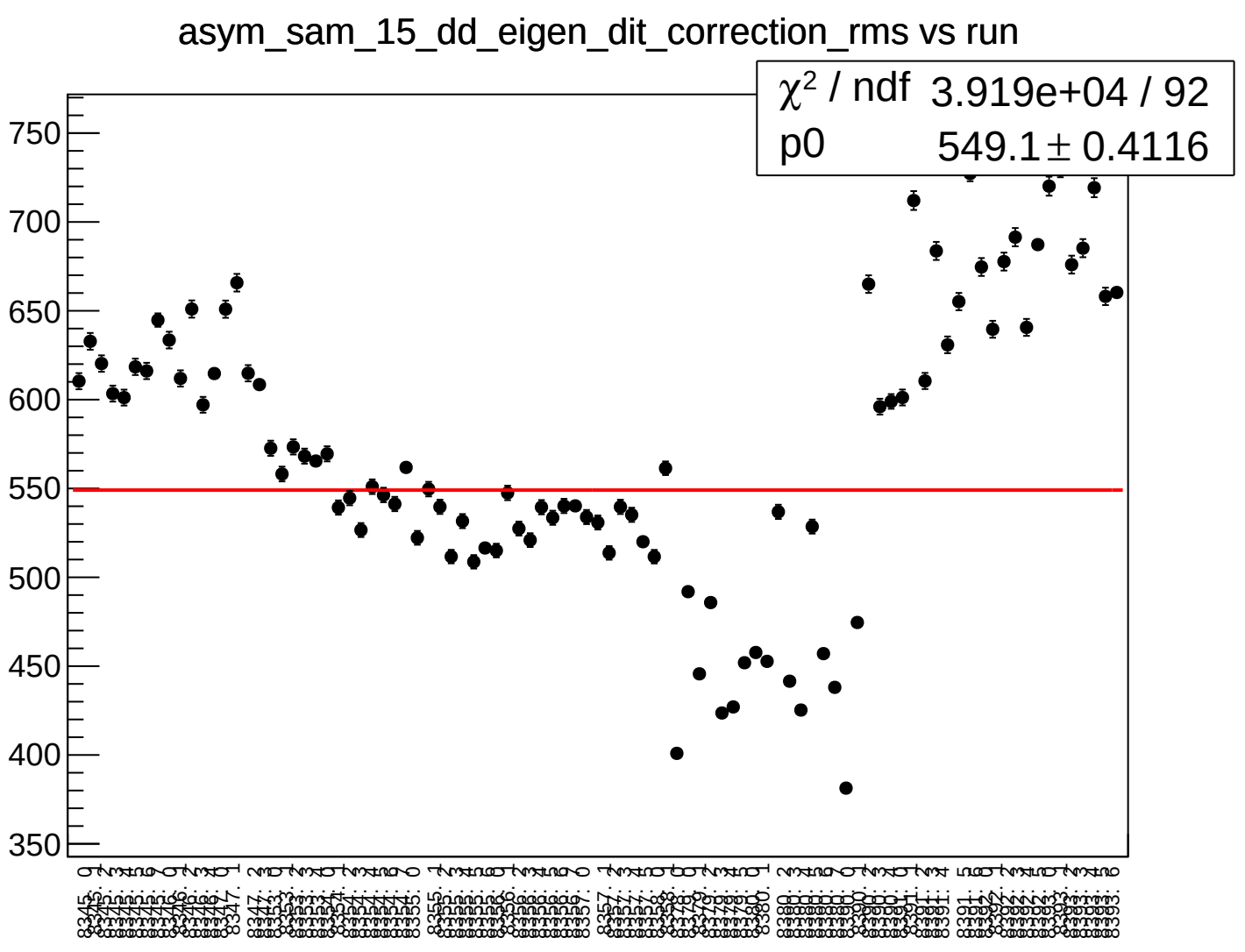

eigen_dit_asym_sam_15_dd_mean vs run
χ^2 / ndf 89.3 / 92
p0 10.46 ± 93.72
pull
Entries 93
Mean −151.8
Std Dev 0

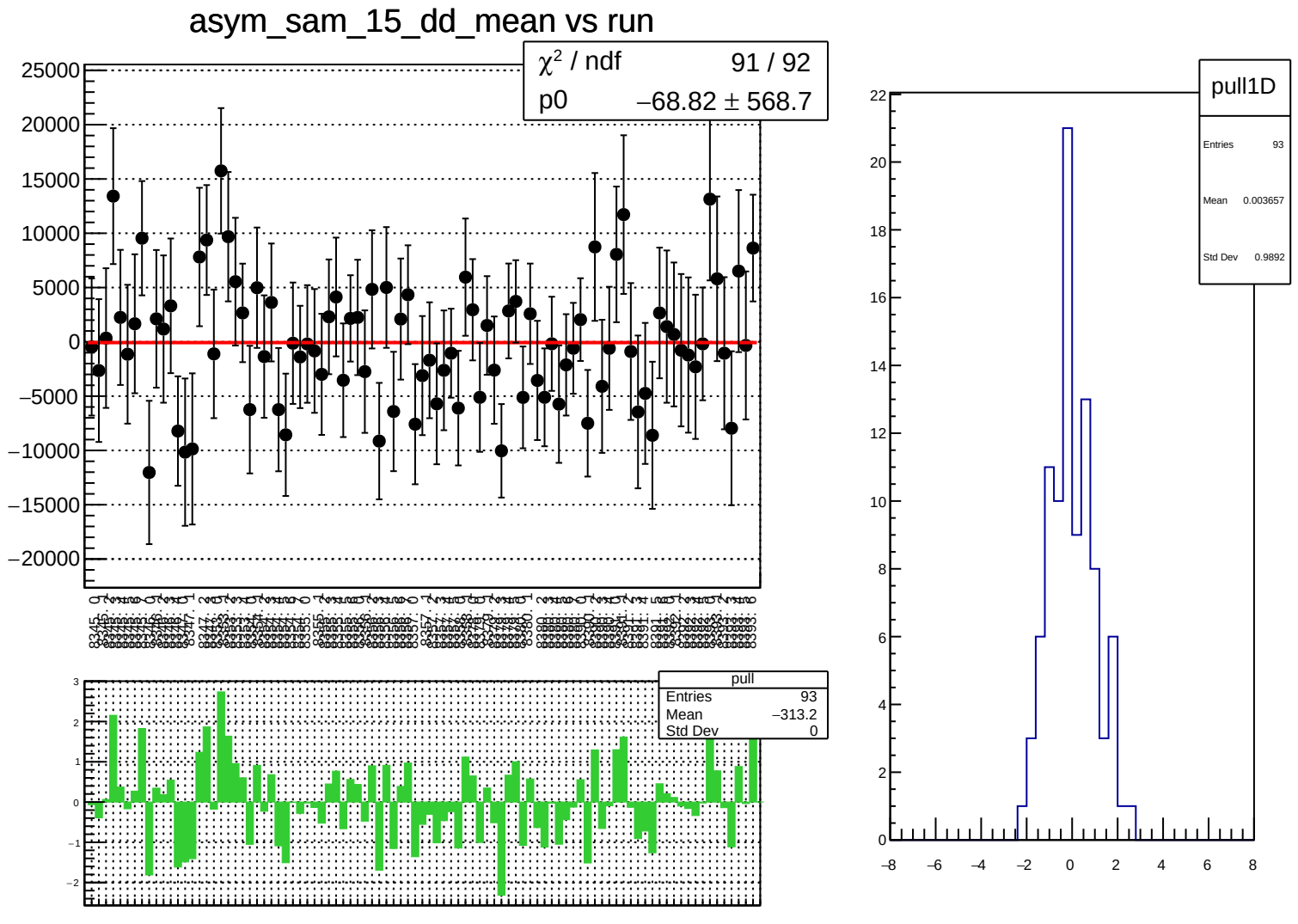

pull1D
Entries 93
Mean 0.007531
Std Dev 0.9799

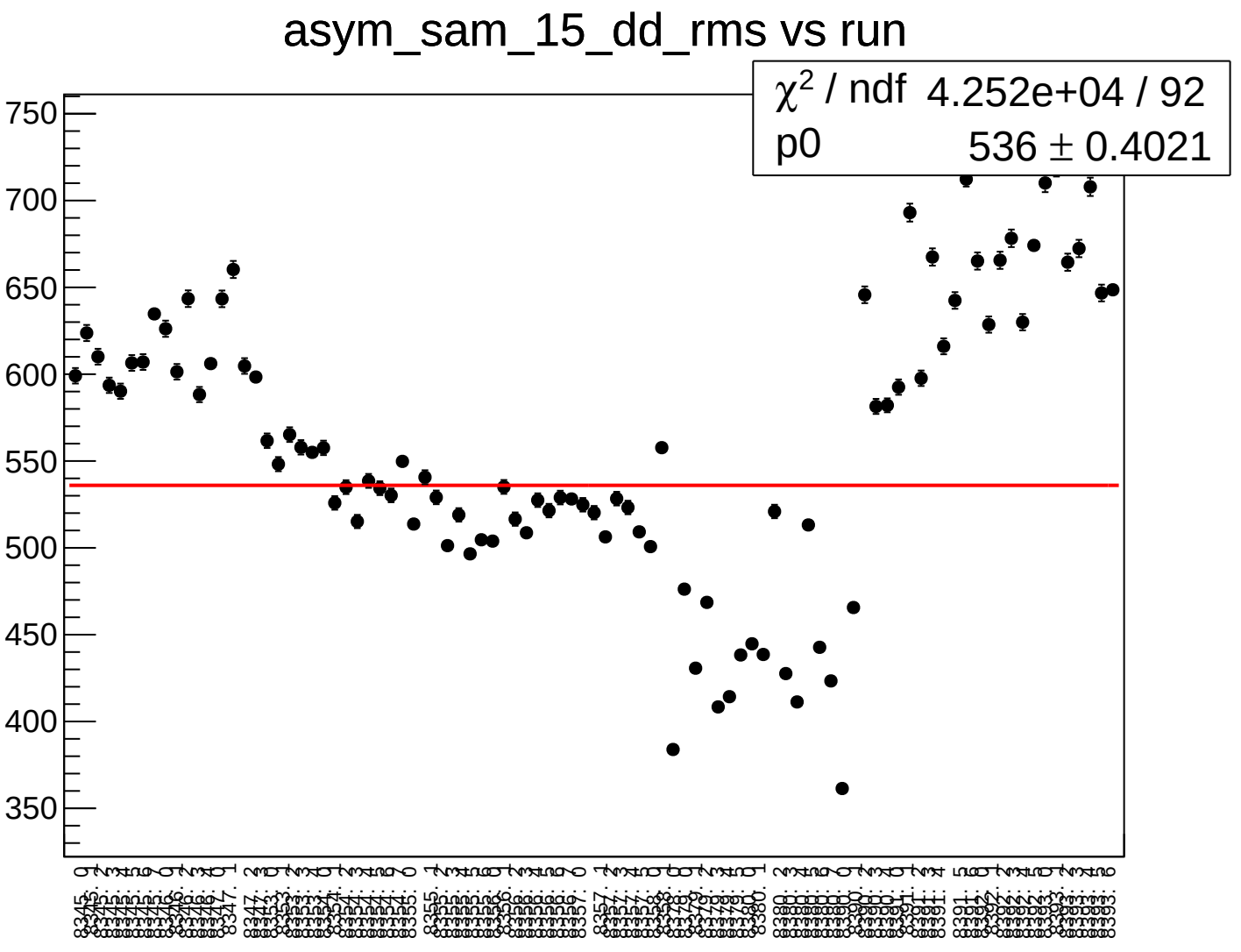

eigen_dit_asym_sam_15_dd_rms vs run
χ² / ndf 436.7 / 92
p0 89.37 ± 0.06627
94
92
90
88
86
84

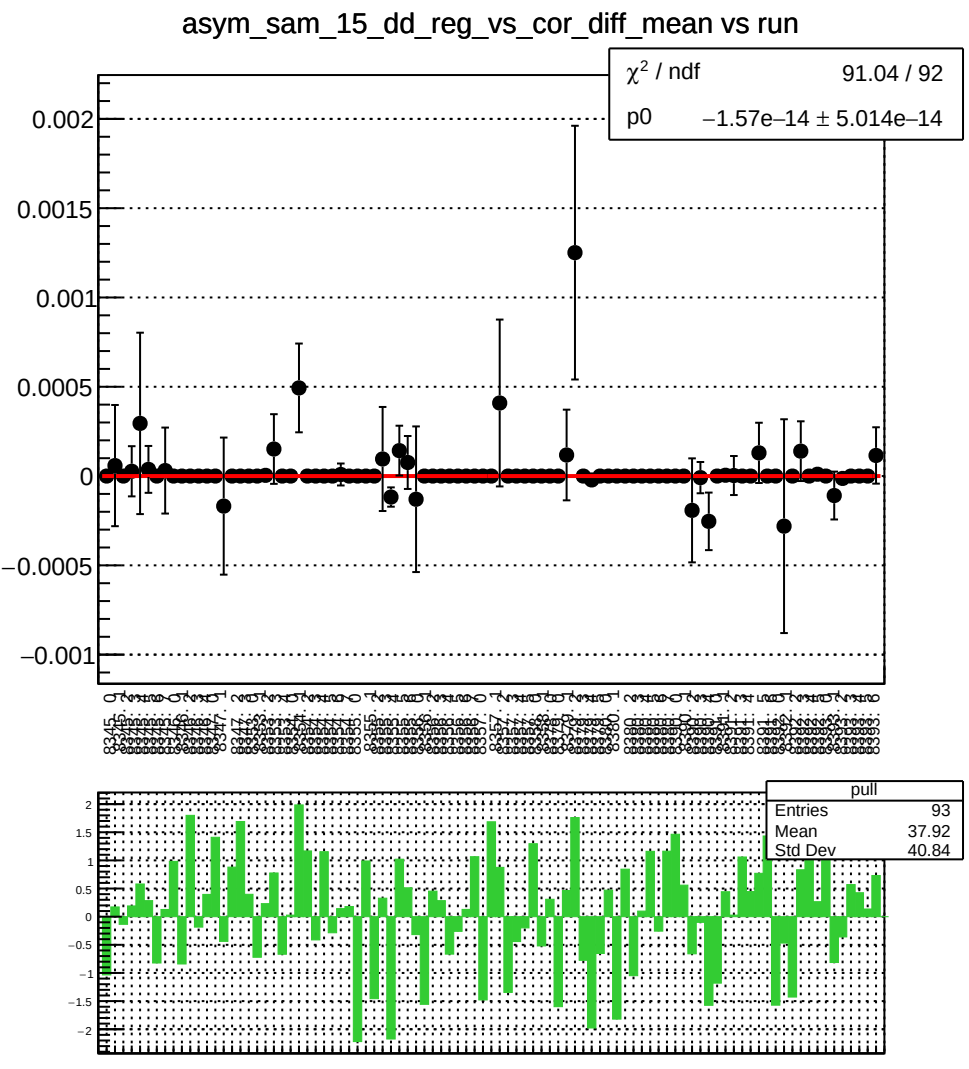

asym_sam_15_dd_eigen_dit_correction_mean vs run
χ² / ndf 92.48 / 92
p0 55.98 ± 582.1
pull
Entries 93
Mean −2571
Std Dev 0

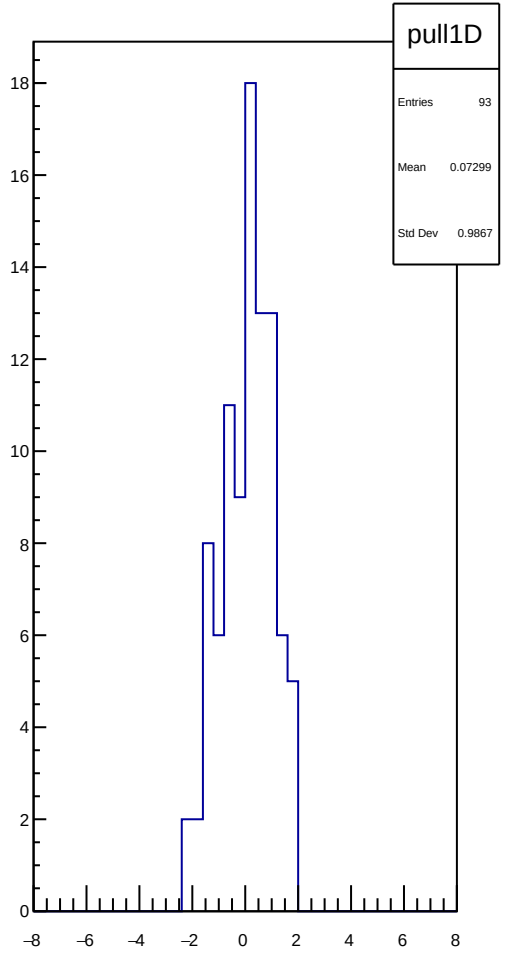

pull1D
Entries 93
Mean −0.0004102
Std Dev 0.9972

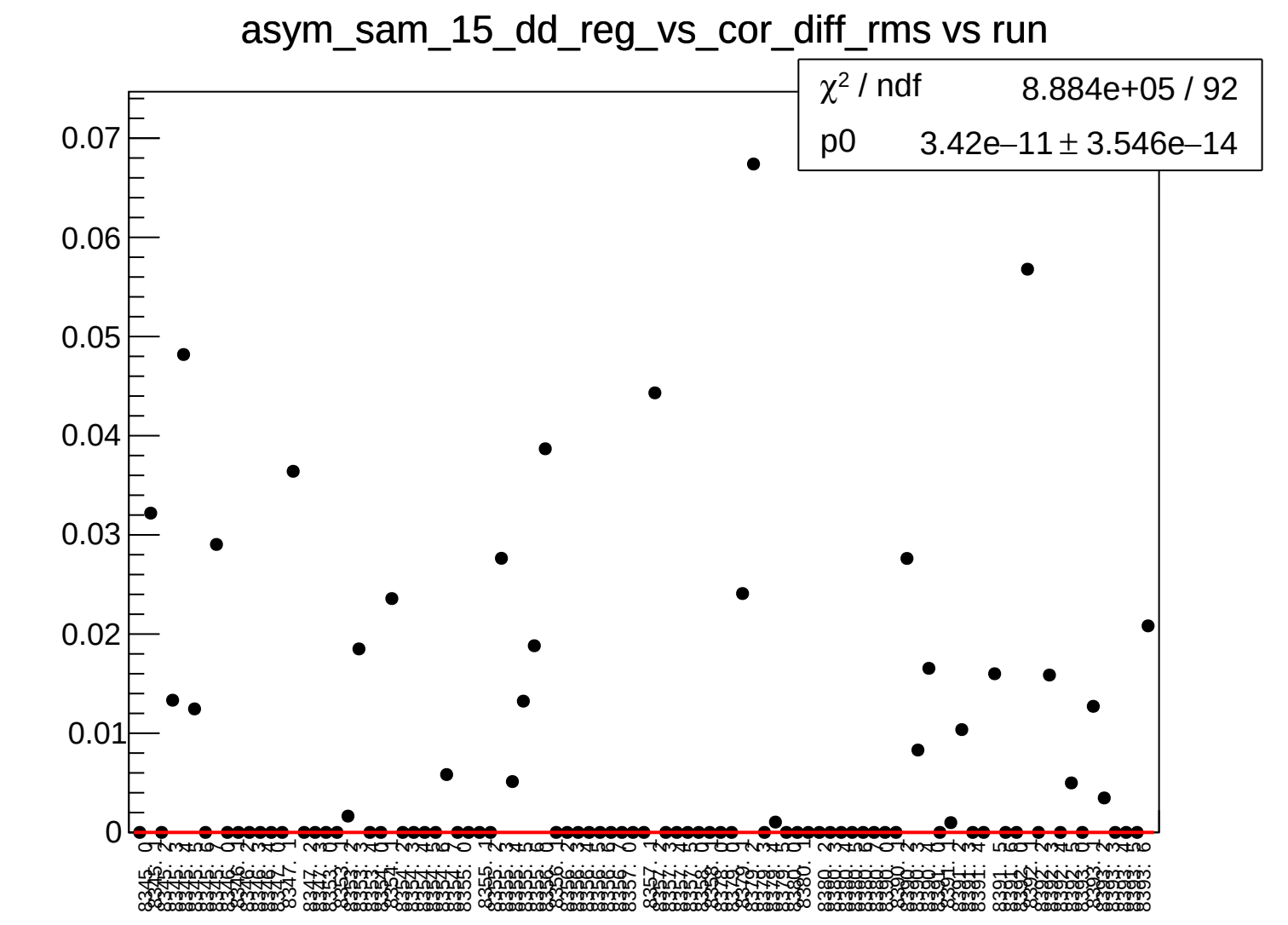

asym_sam_15_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.919e+04 / 92
p0 549.1 ± 0.4116
750
700
650
600
550
500
450
400
350

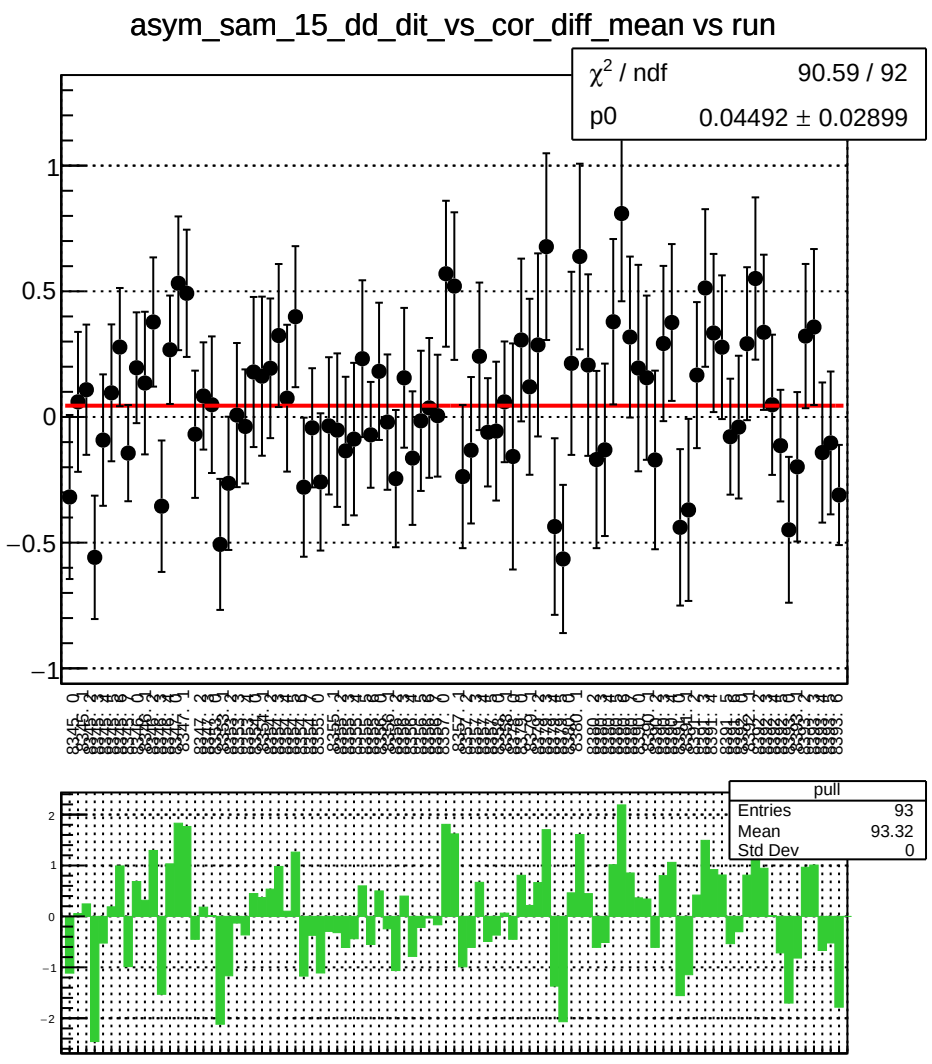

asym_sam_15_dd_mean vs run
χ² / ndf 91 / 92
p0 −68.82 ± 568.7
pull
Entries 93
Mean −313.2
Std Dev 0
pull1D
Entries 93
Mean 0.003657
Std Dev 0.9892

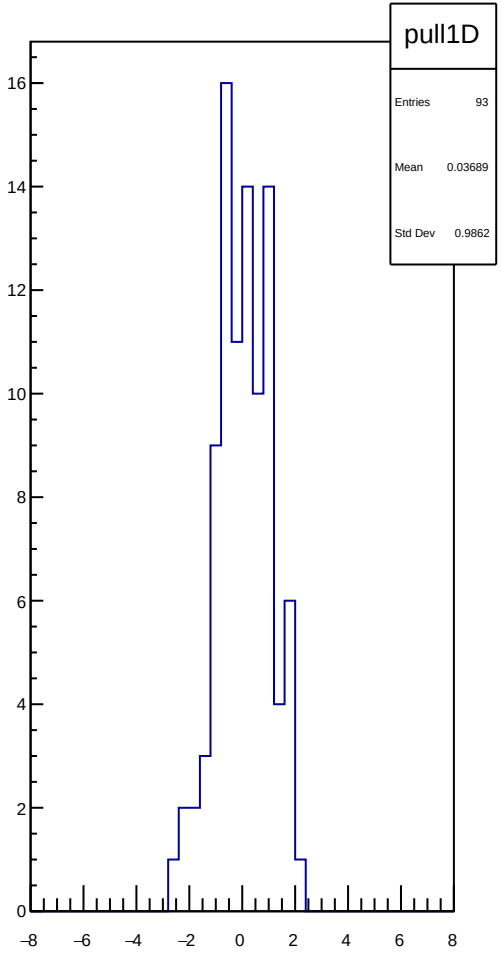

asym_sam_15_dd_rms vs run
χ² / ndf 4.252e+04 / 92
p0 536 ± 0.4021
750
700
650
600
550
500
450
400
350

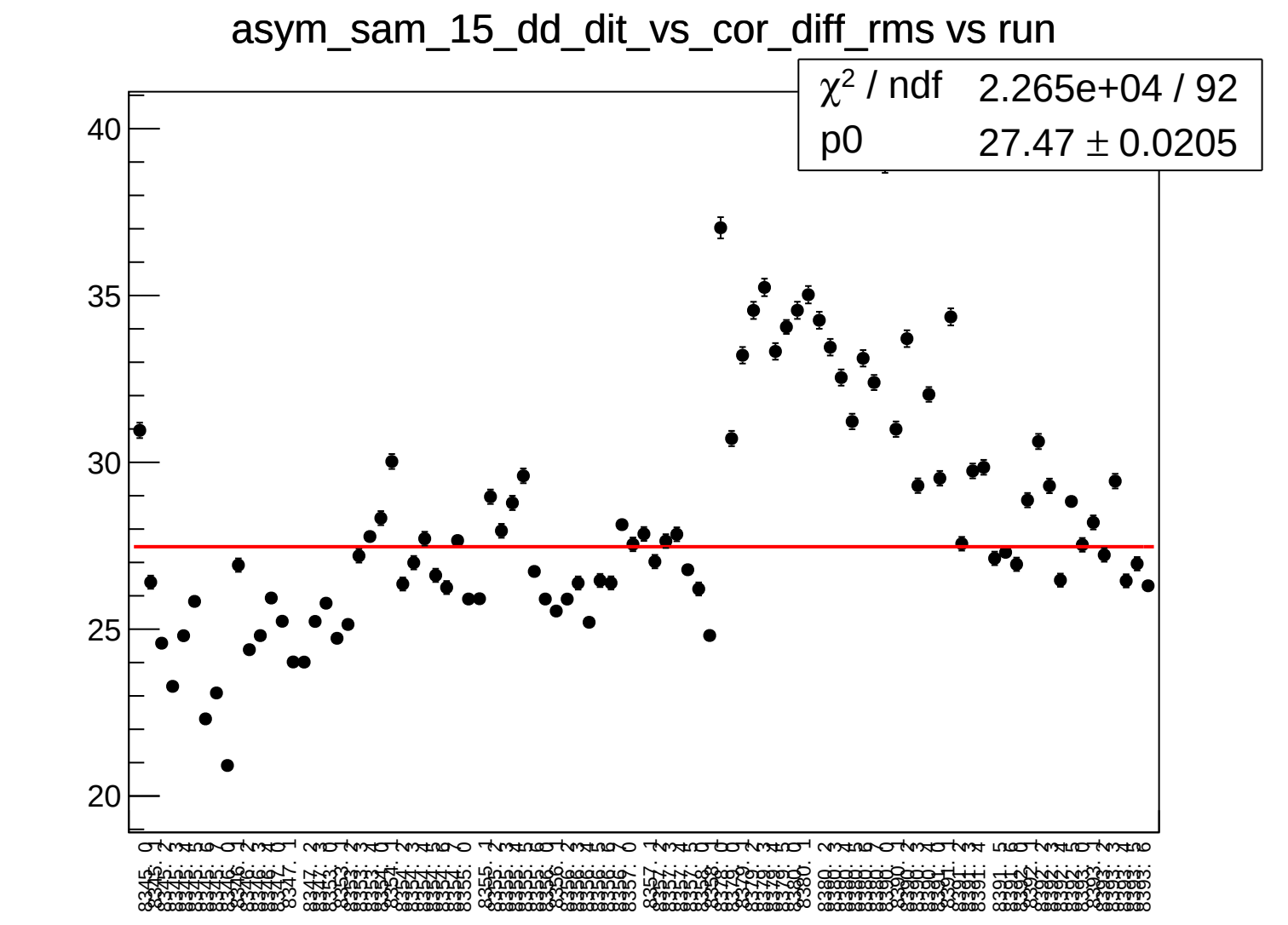

asym_sam_15_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 91.04 / 92
p0 −1.57e−14 ± 5.014e−14
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 93
Mean 37.92
Std Dev 40.84
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

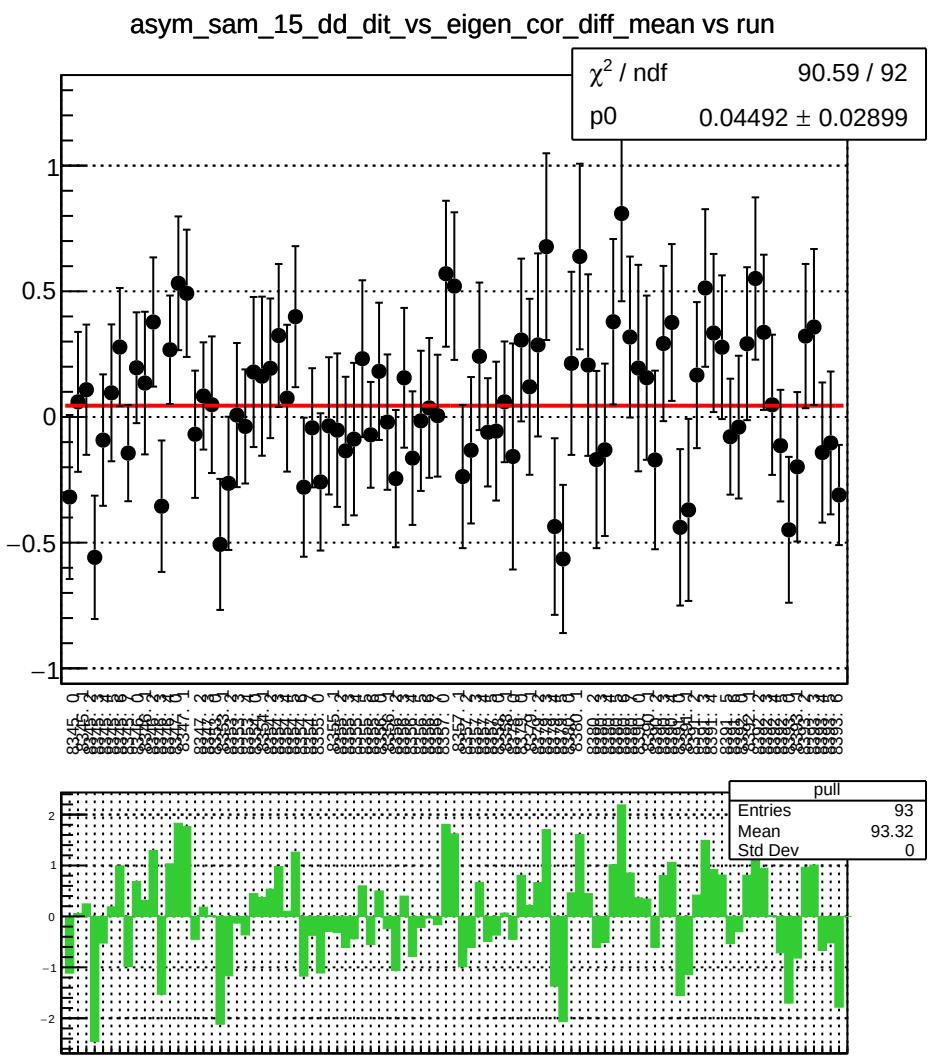

pull1D
Entries 93
Mean 0.07299
Std Dev 0.9867
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

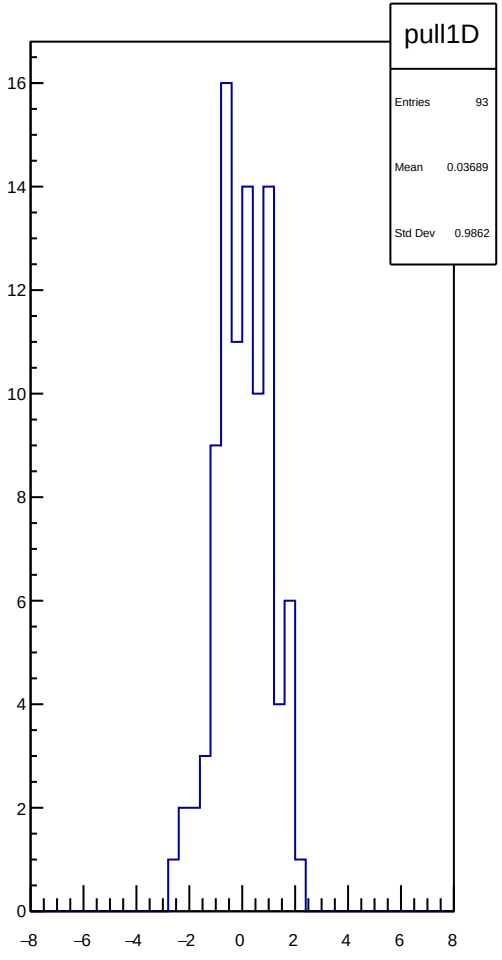

asym_sam_15_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.884e+05 / 92
p0 3.42e−11 ± 3.546e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

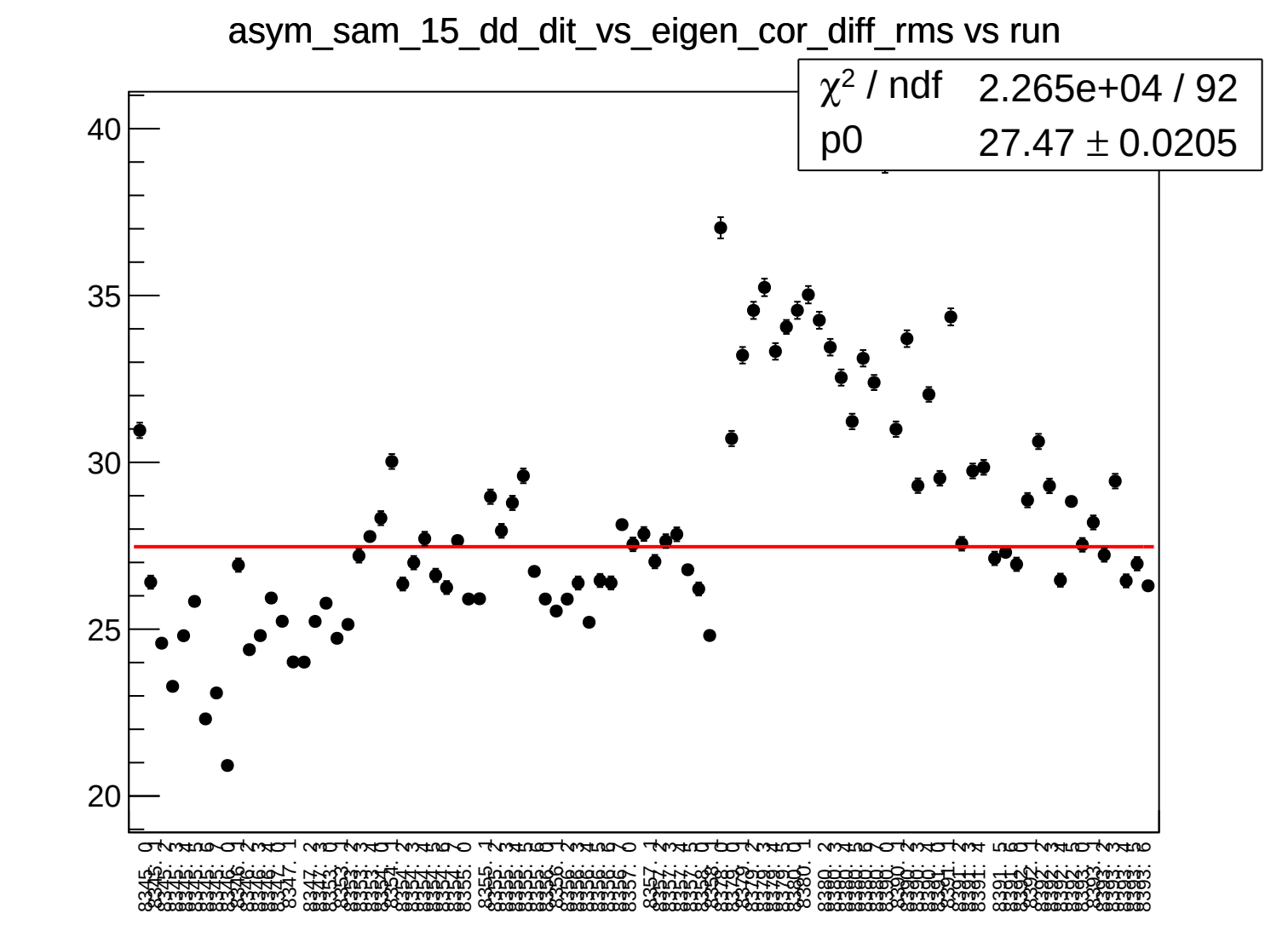

asym_sam_15_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 90.59 / 92
p0 0.04492 ± 0.02899
pull
Entries 93
Mean 93.32
Std Dev 0

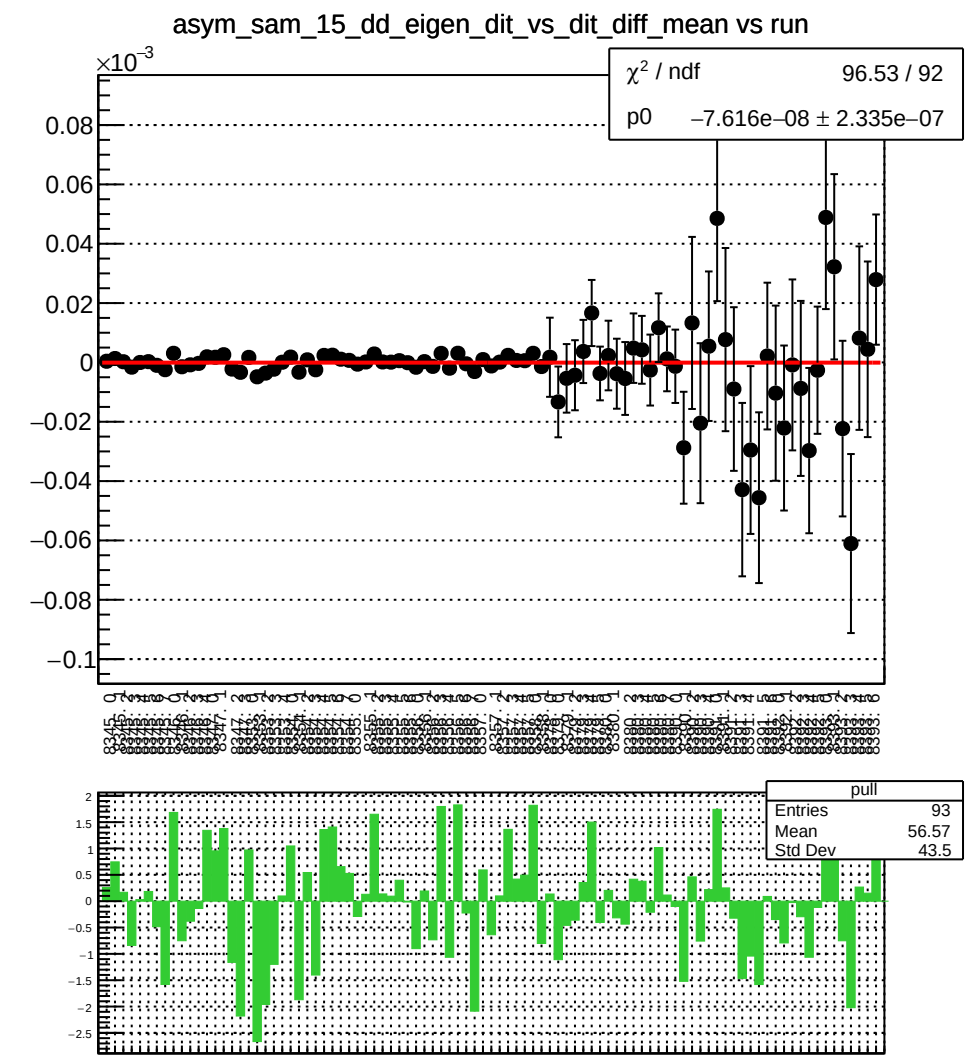

pull1D
Entries 93
Mean 0.03689
Std Dev 0.9862

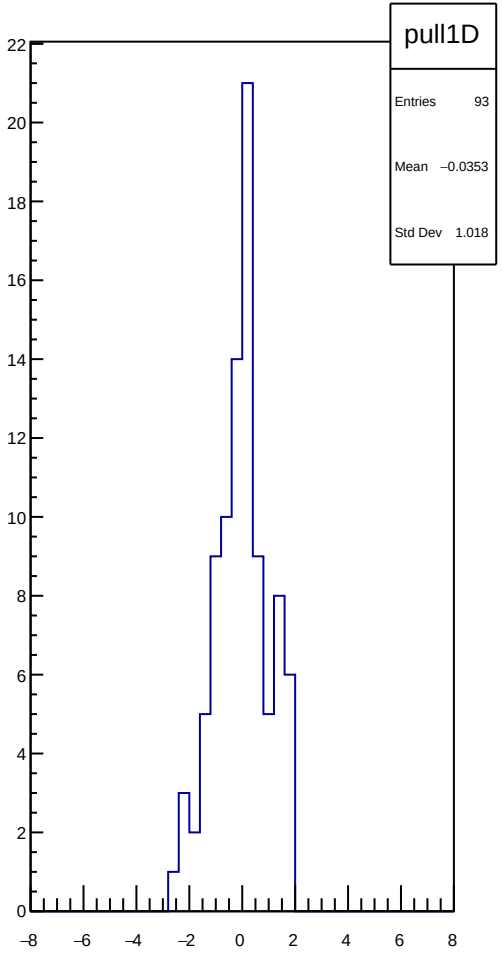

asym_sam_15_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.265e+04 / 92
p0 27.47 ± 0.0205
40
35
30
25
20

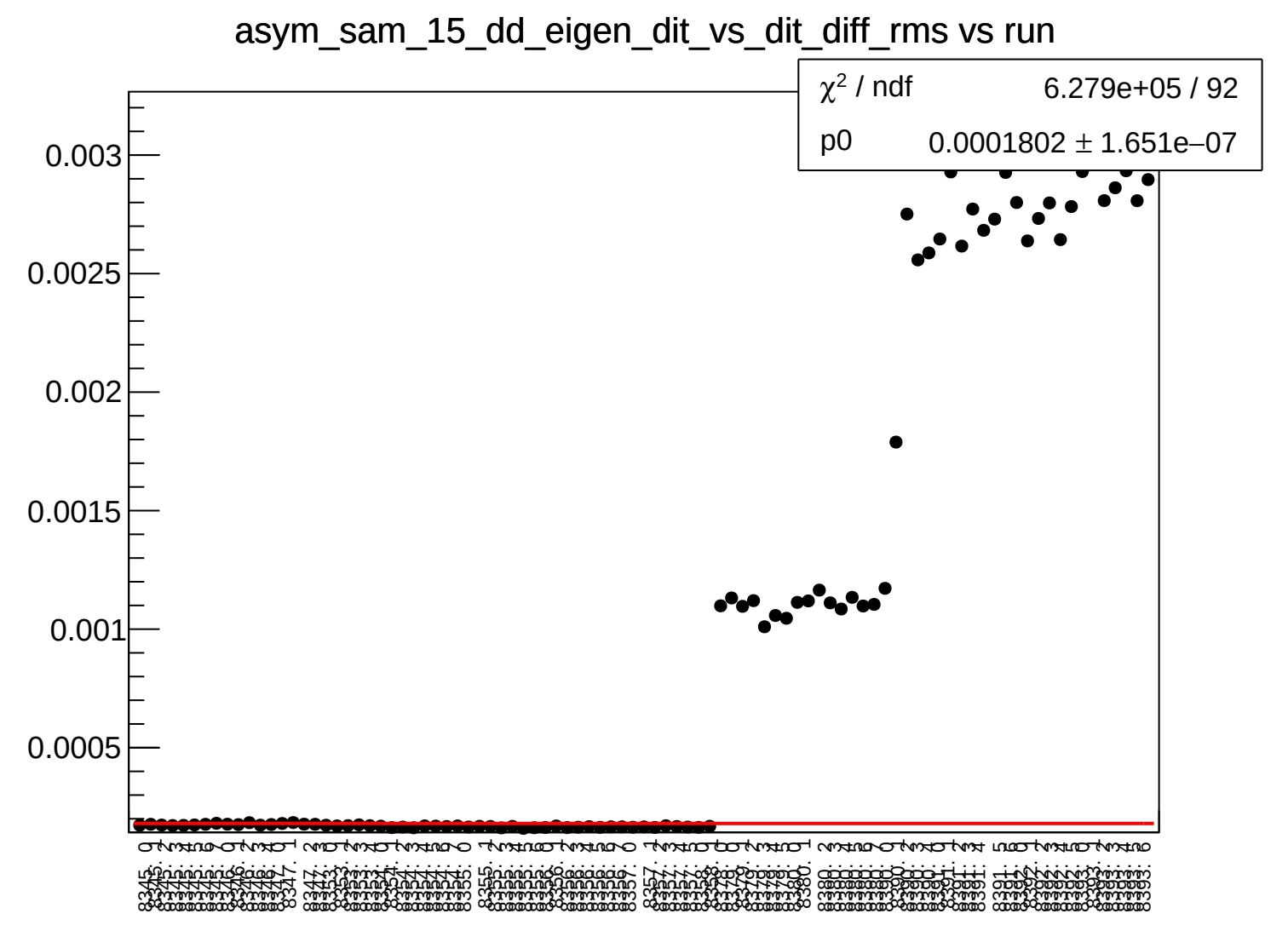

asym_sam_15_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.59 / 92
p0 0.04492 ± 0.02899
pull
Entries 93
Mean 93.32
Std Dev 0

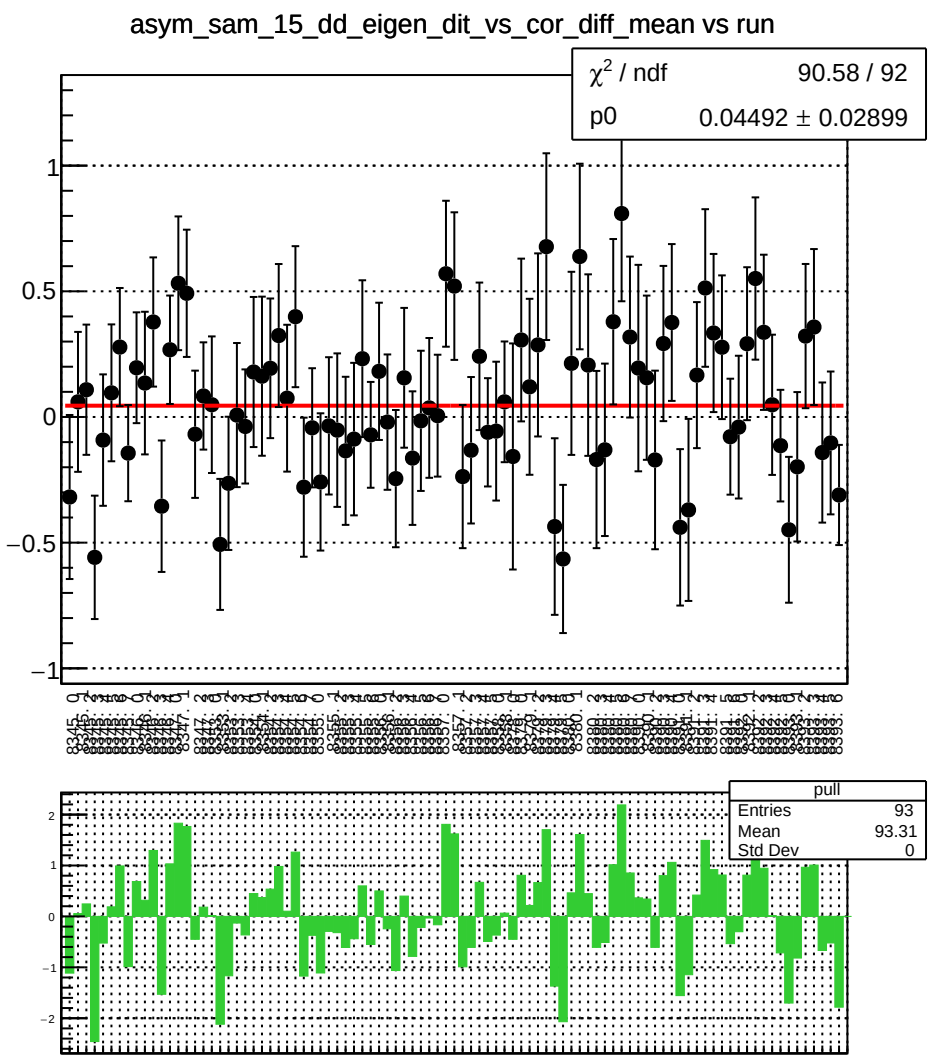

pull1D
Entries 93
Mean 0.03689
Std Dev 0.9862

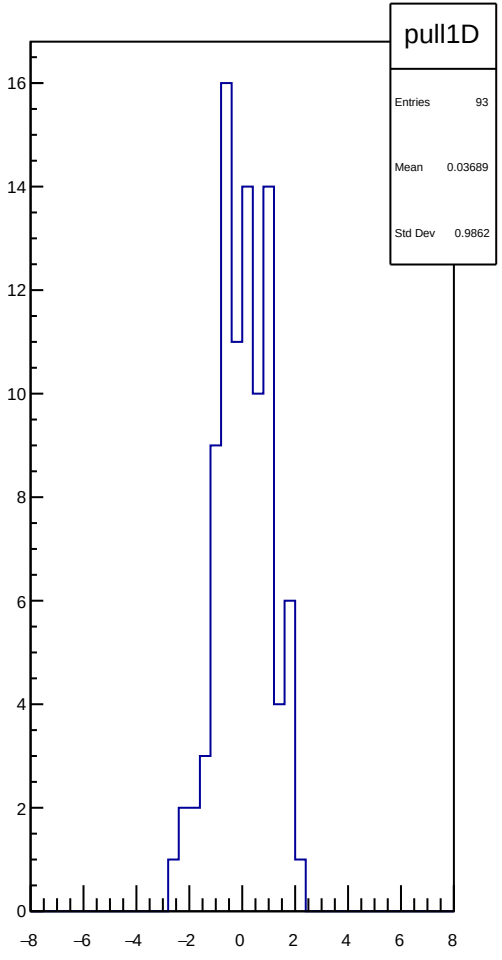

asym_sam_15_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.265e+04 / 92
p0 27.47 ± 0.0205
40
35
30
25
20

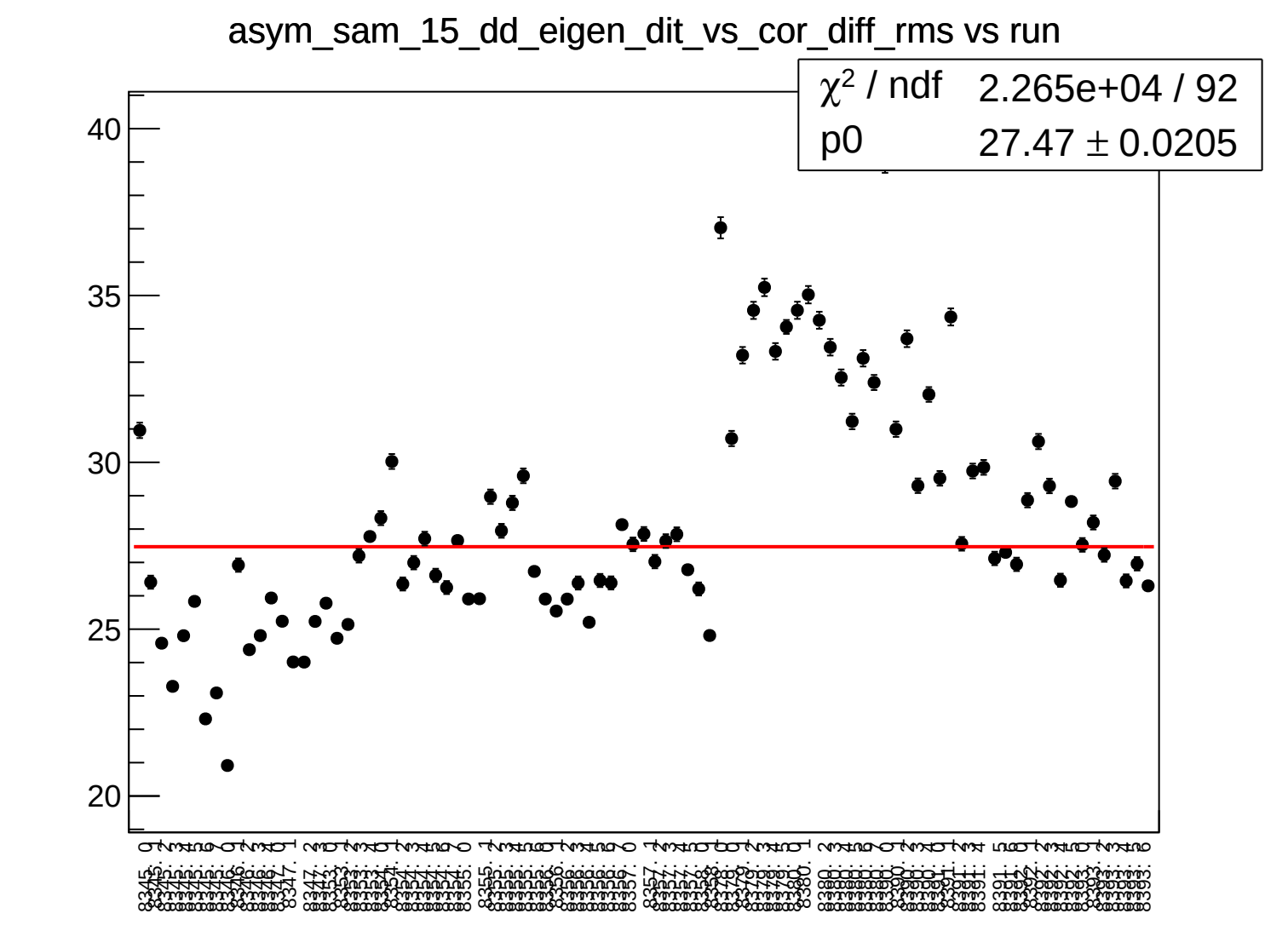

asym_sam_15_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 96.53 / 92
p0 −7.616e−08 ± 2.335e−07
pull
Entries 93
Mean 56.57
Std Dev 43.5

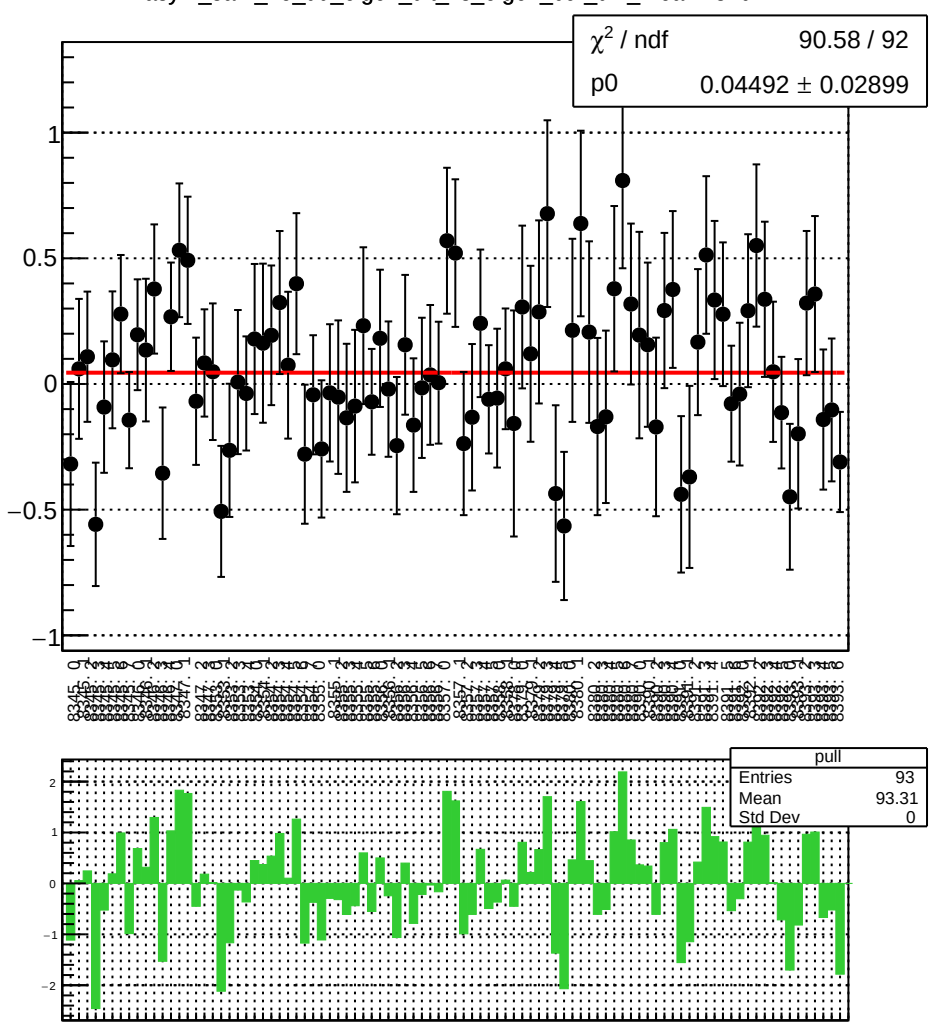

pull1D
Entries 93
Mean −0.0353
Std Dev 1.018

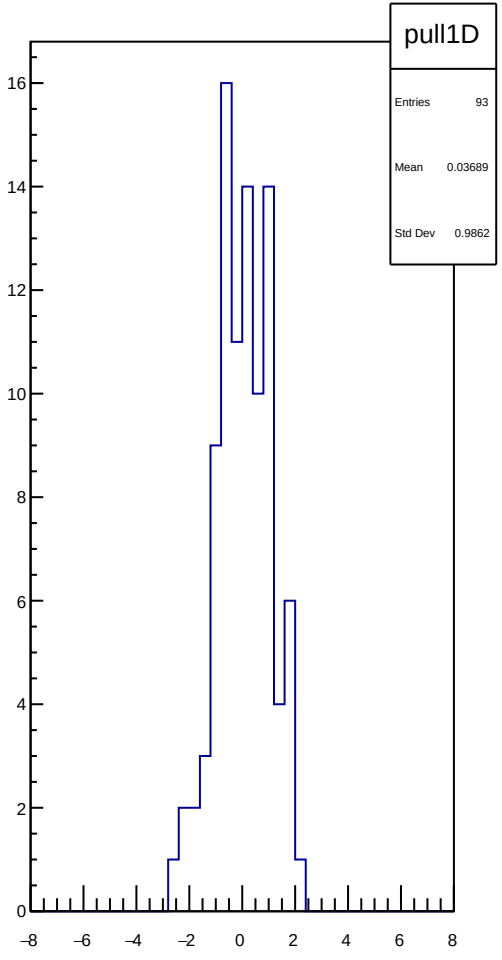

asym_sam_15_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.279e+05 / 92
p0 0.0001802 ± 1.651e−07
0.003
0.0025
0.002
0.0015
0.001
0.0005

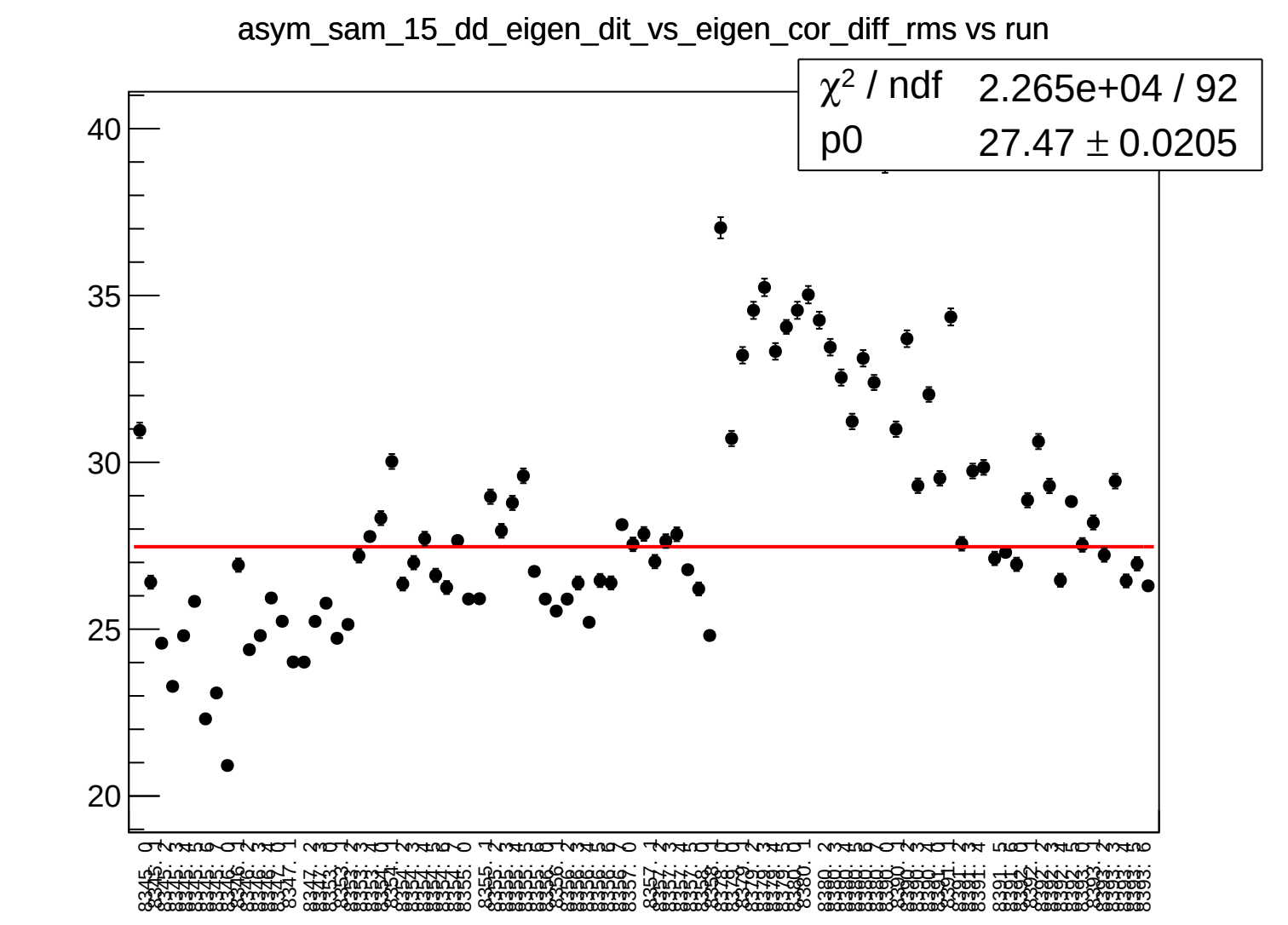

asym_sam_15_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.58 / 92
p0 0.04492 ± 0.02899
pull
Entries 93
Mean 93.31
Std Dev 0

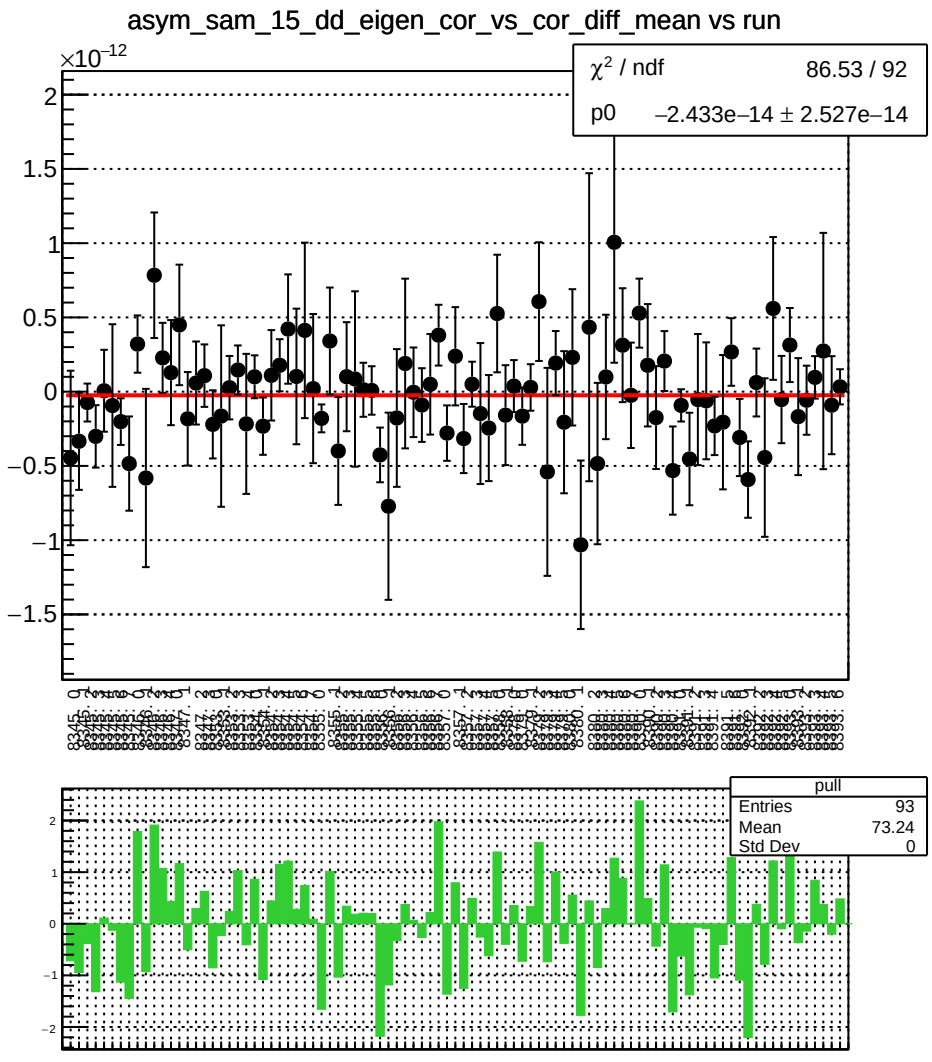

pull1D
Entries 93
Mean 0.03689
Std Dev 0.9862

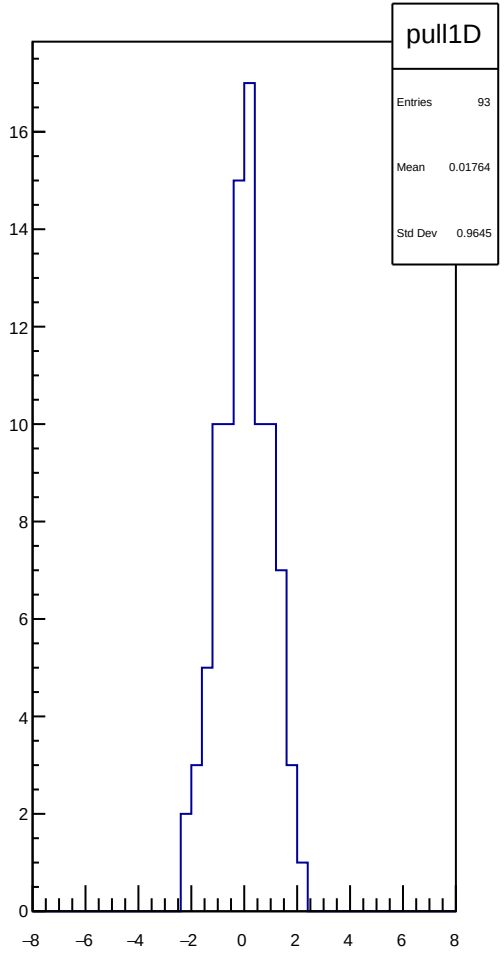

asym_sam_15_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.265e+04 / 92
p0 27.47 ± 0.0205
40
35
30
25
20

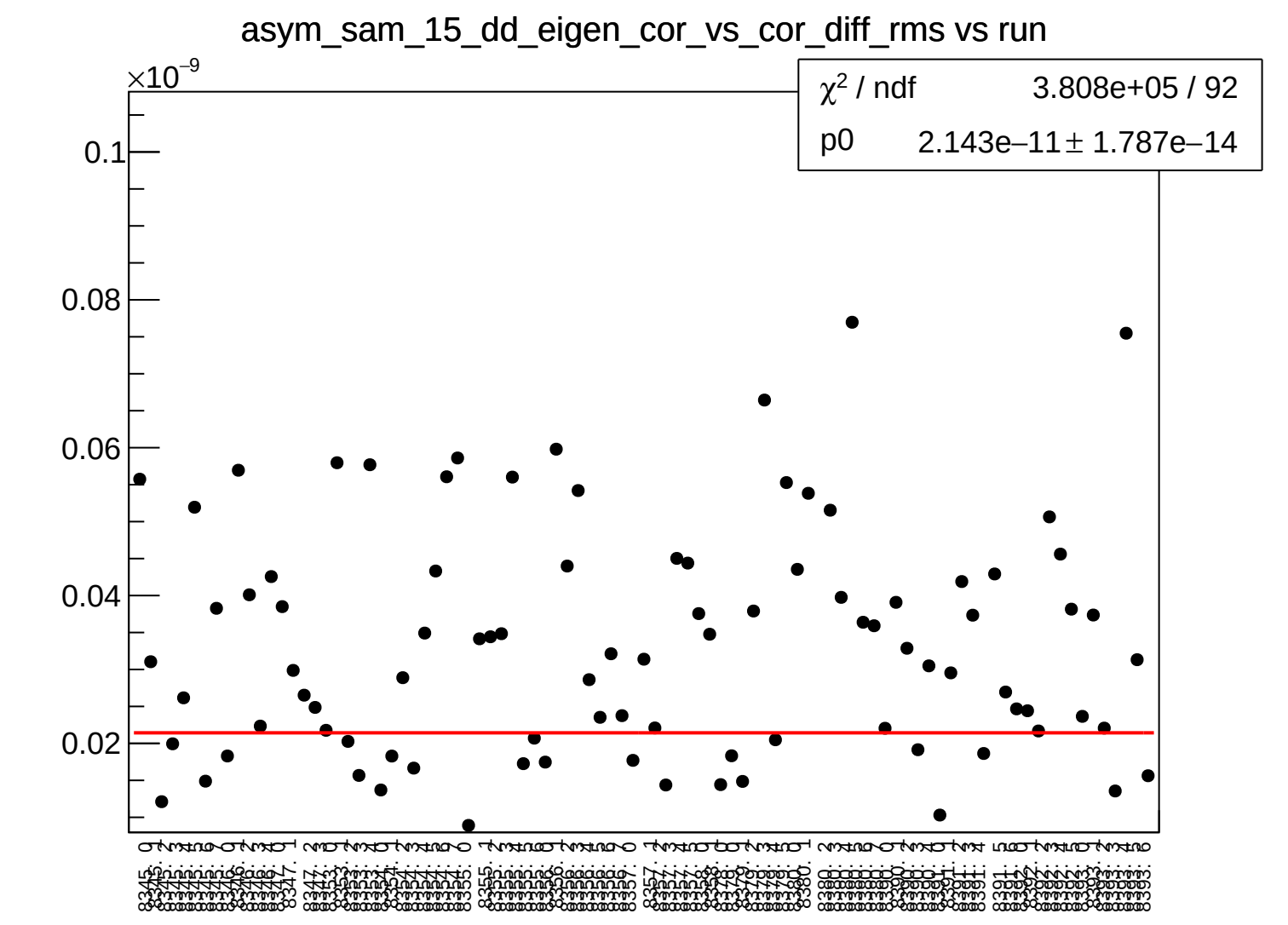

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.58 / 92
p0 0.04492 ± 0.02899
pull
Entries 93
Mean 93.31
Std Dev 0

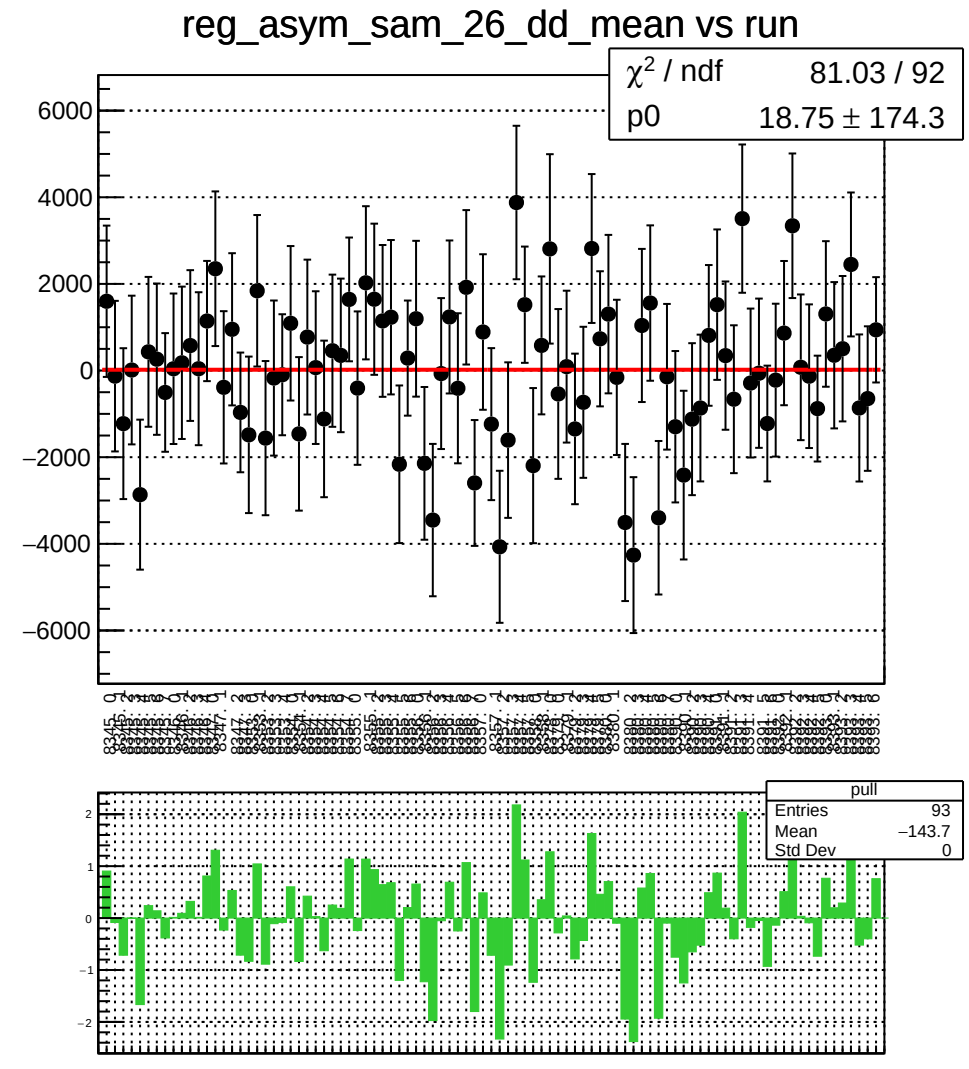

pull1D
Entries 93
Mean 0.03689
Std Dev 0.9862

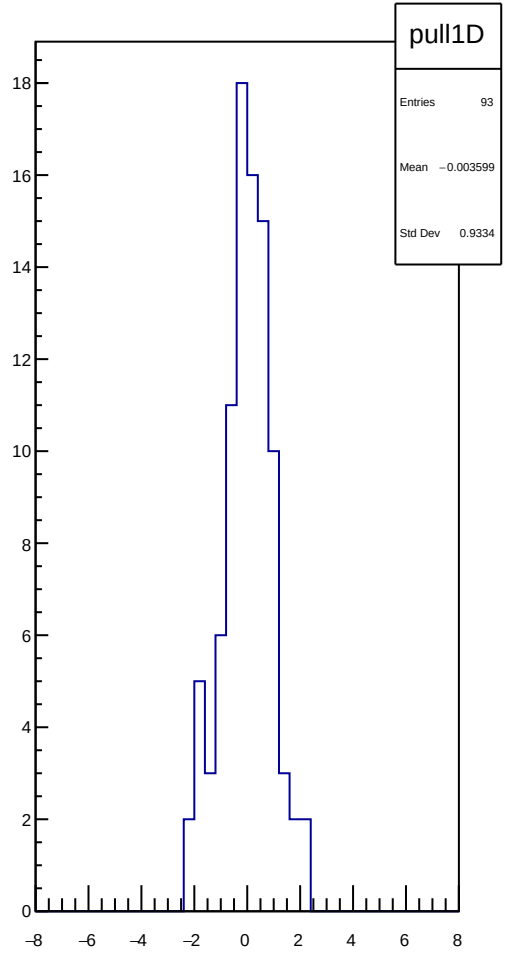

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.265e+04 / 92
p0 27.47 ± 0.0205
40
35
30
25
20

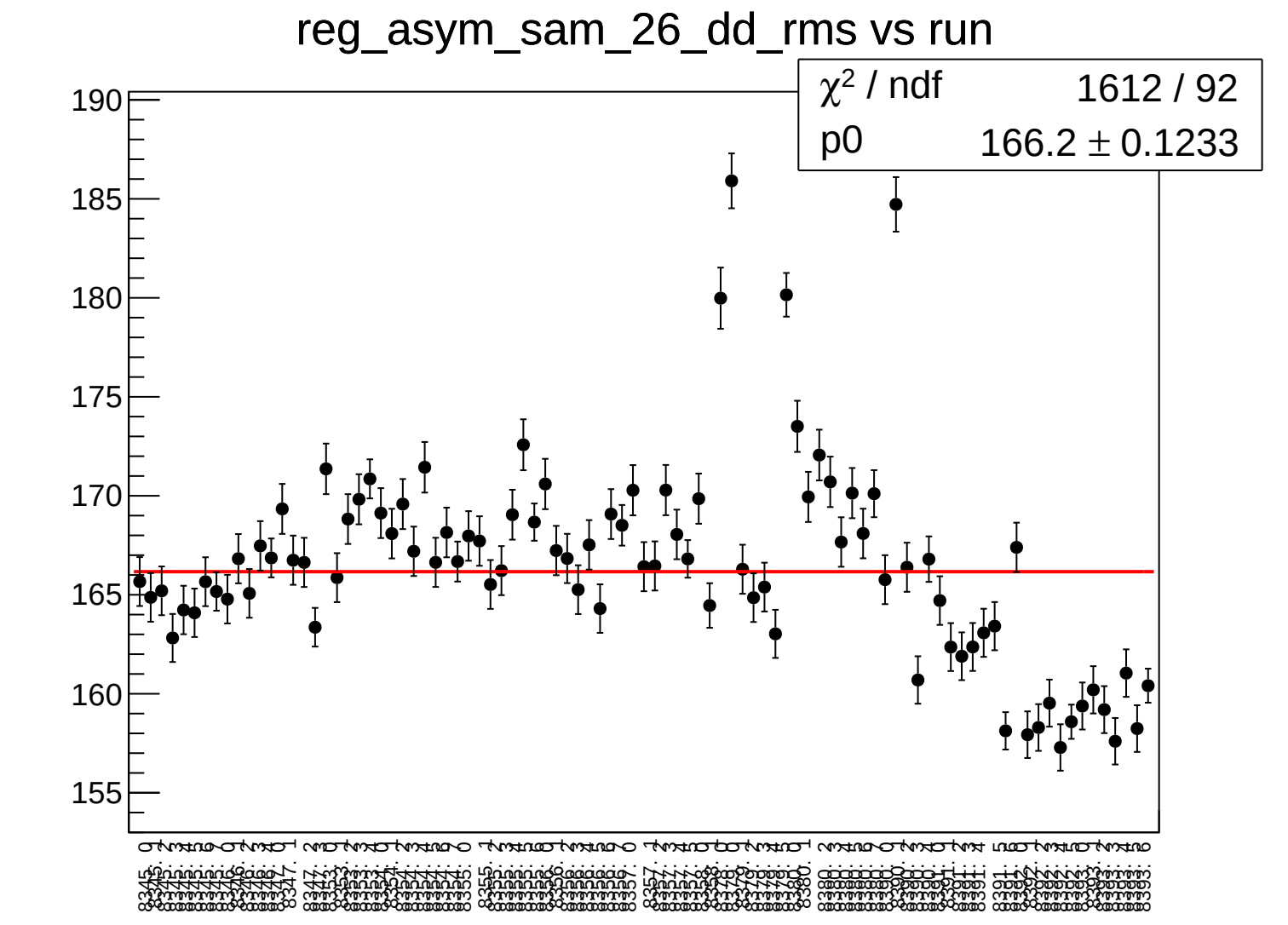

asym_sam_15_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.53 / 92
p0 −2.433e−14 ± 2.527e−14
pull
Entries 93
Mean 73.24
Std Dev 0

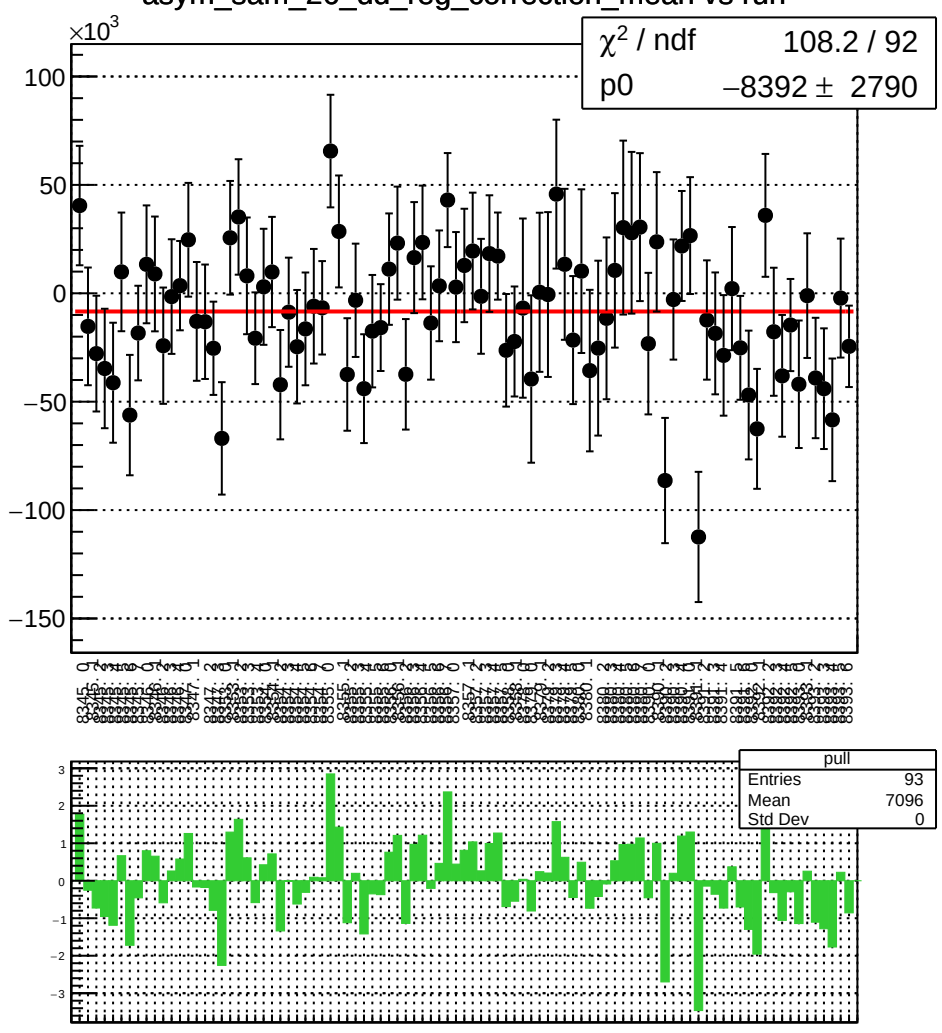

pull1D
Entries 93
Mean 0.01764
Std Dev 0.9645

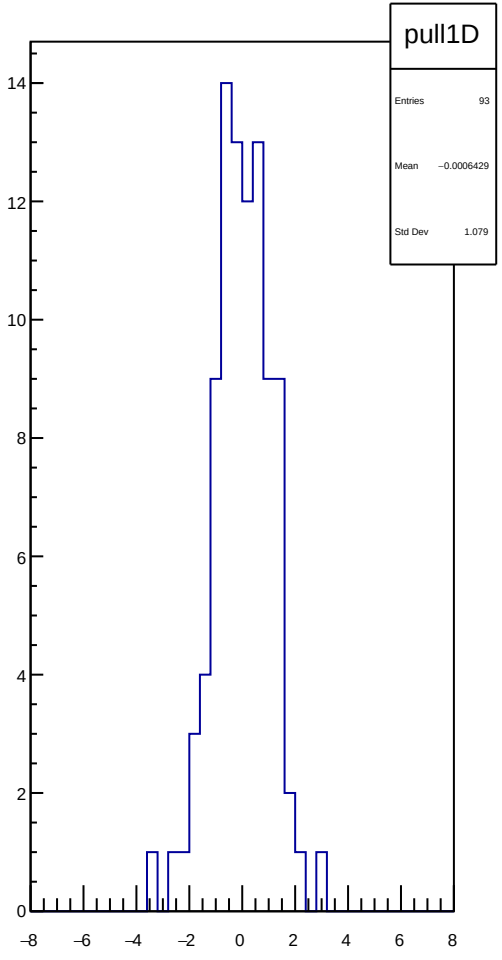

asym_sam_15_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.808e+05 / 92
p0 2.143e−11 ± 1.787e−14
0.1
0.08
0.06
0.04
0.02

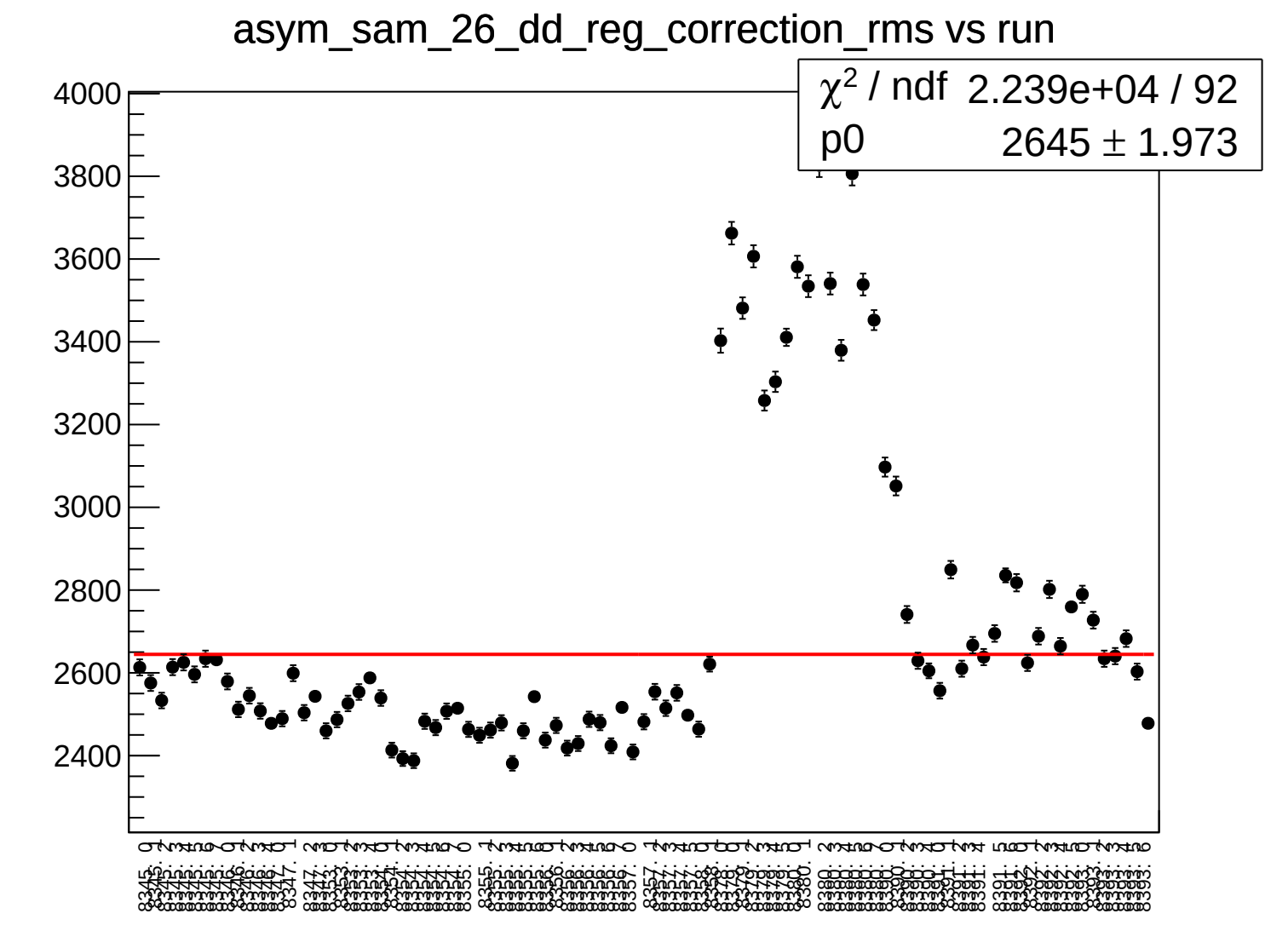

reg_asym_sam_26_dd_mean vs run
χ² / ndf 81.03 / 92
p0 18.75 ± 174.3
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean −143.7
Std Dev 0
2
1
0
−1
−2

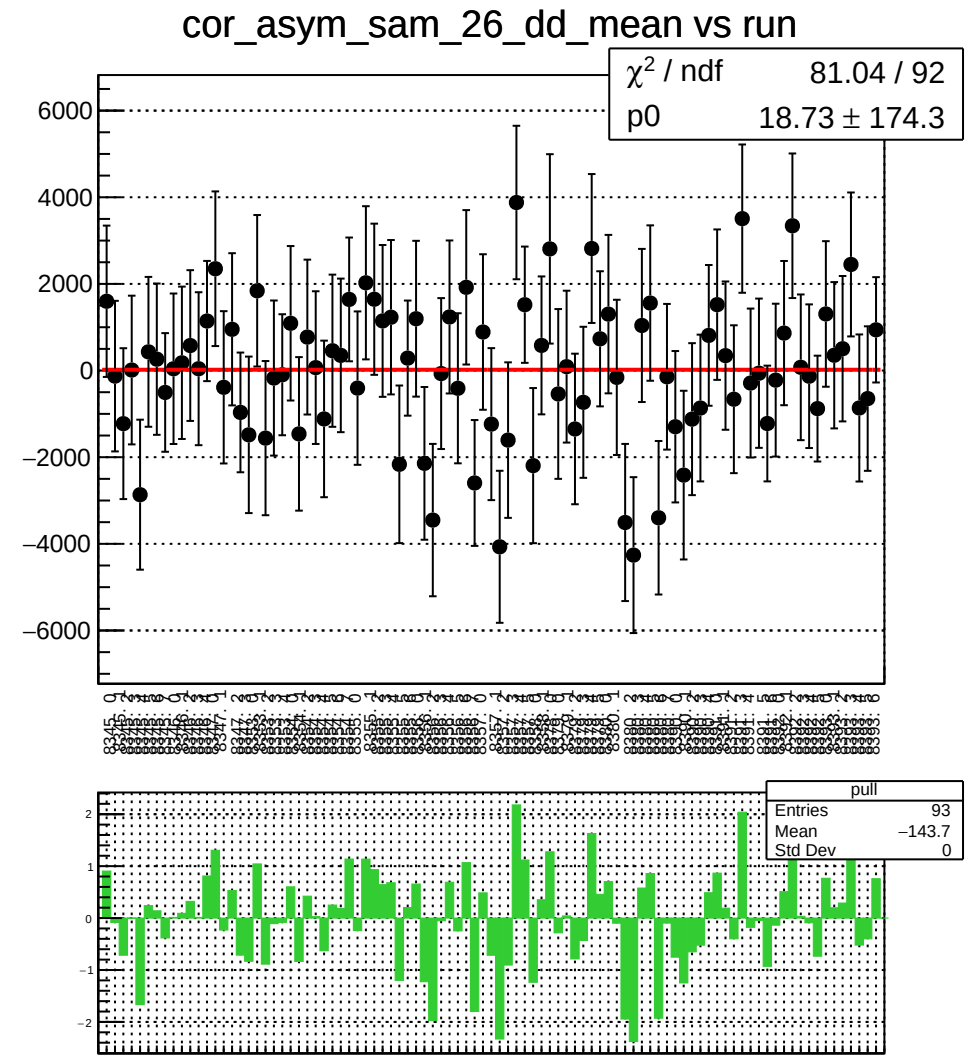

pull1D
Entries 93
Mean −0.003599
Std Dev 0.9334
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

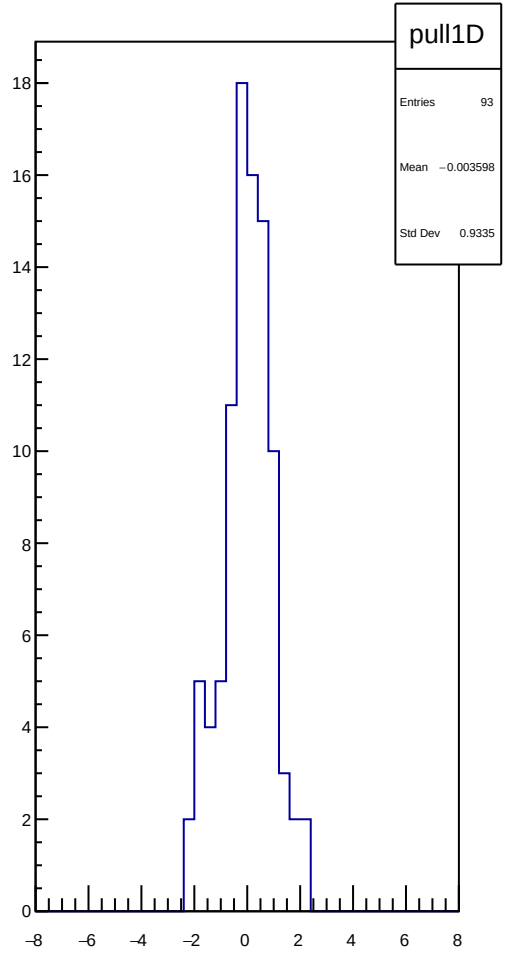

reg_asym_sam_26_dd_rms vs run
χ² / ndf 1612 / 92
p0 166.2 ± 0.1233
190
185
180
175
170
165
160
155

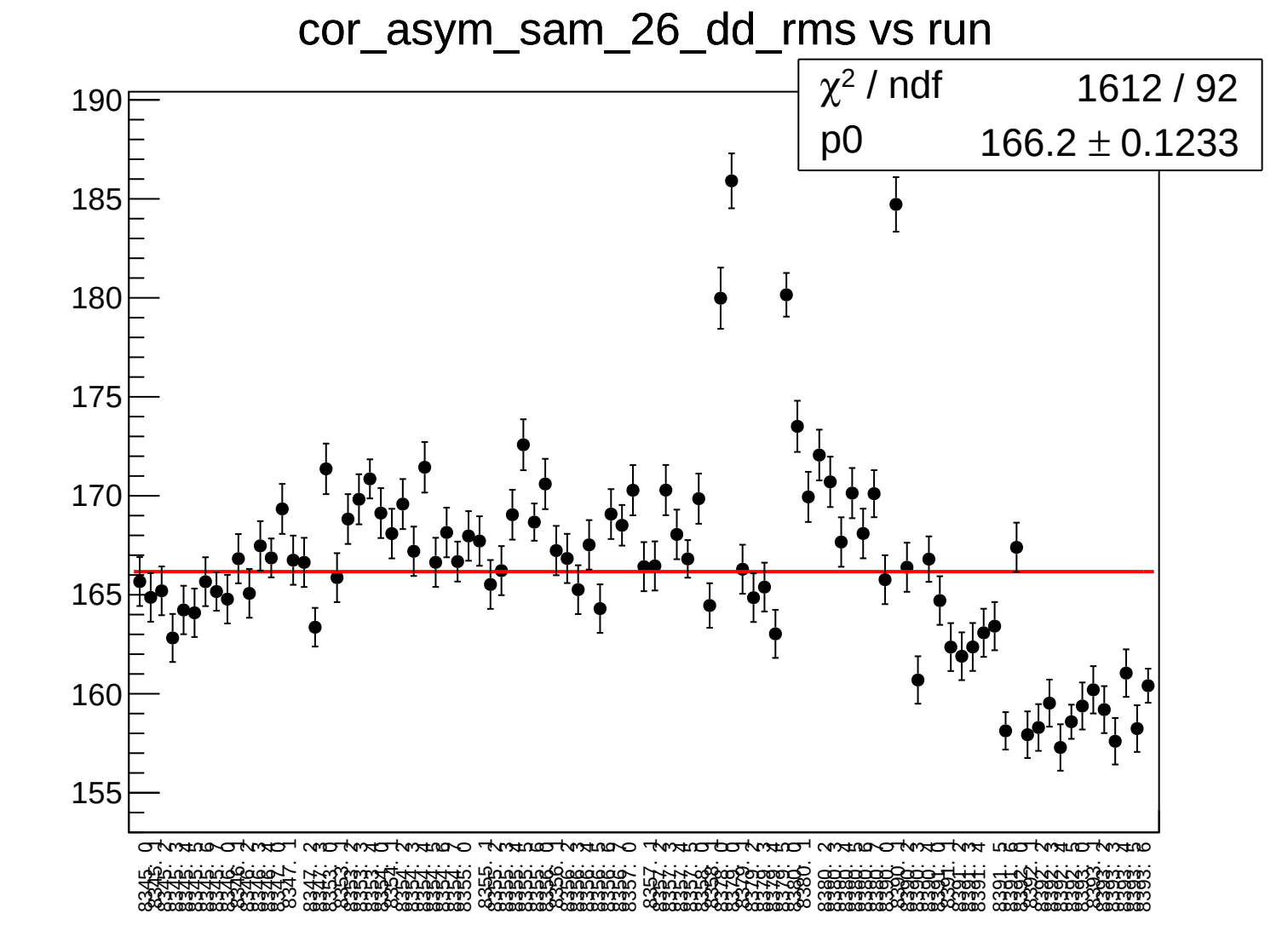

asym_sam_26_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 108.2 / 92
p0 −8392 ± 2790
pull
Entries 93
Mean 7096
Std Dev 0

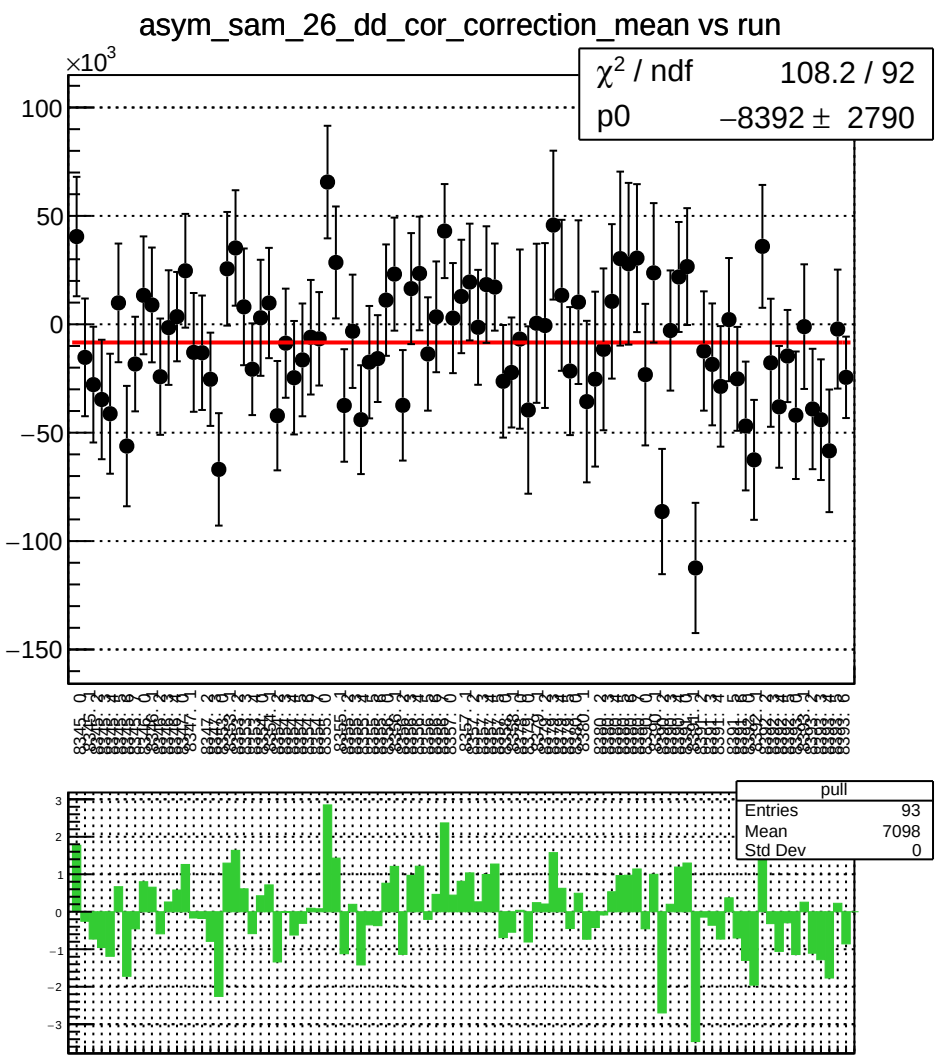

pull1D
Entries 93
Mean −0.0006429
Std Dev 1.079

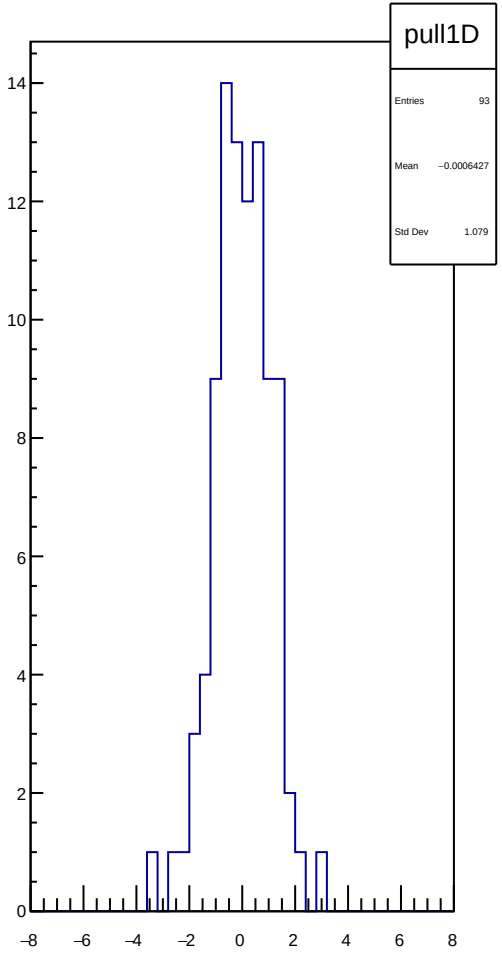

asym_sam_26_dd_reg_correction_rms vs run
χ² / ndf 2.239e+04 / 92
p0 2645 ± 1.973
4000
3800
3600
3400
3200
3000
2800
2600
2400

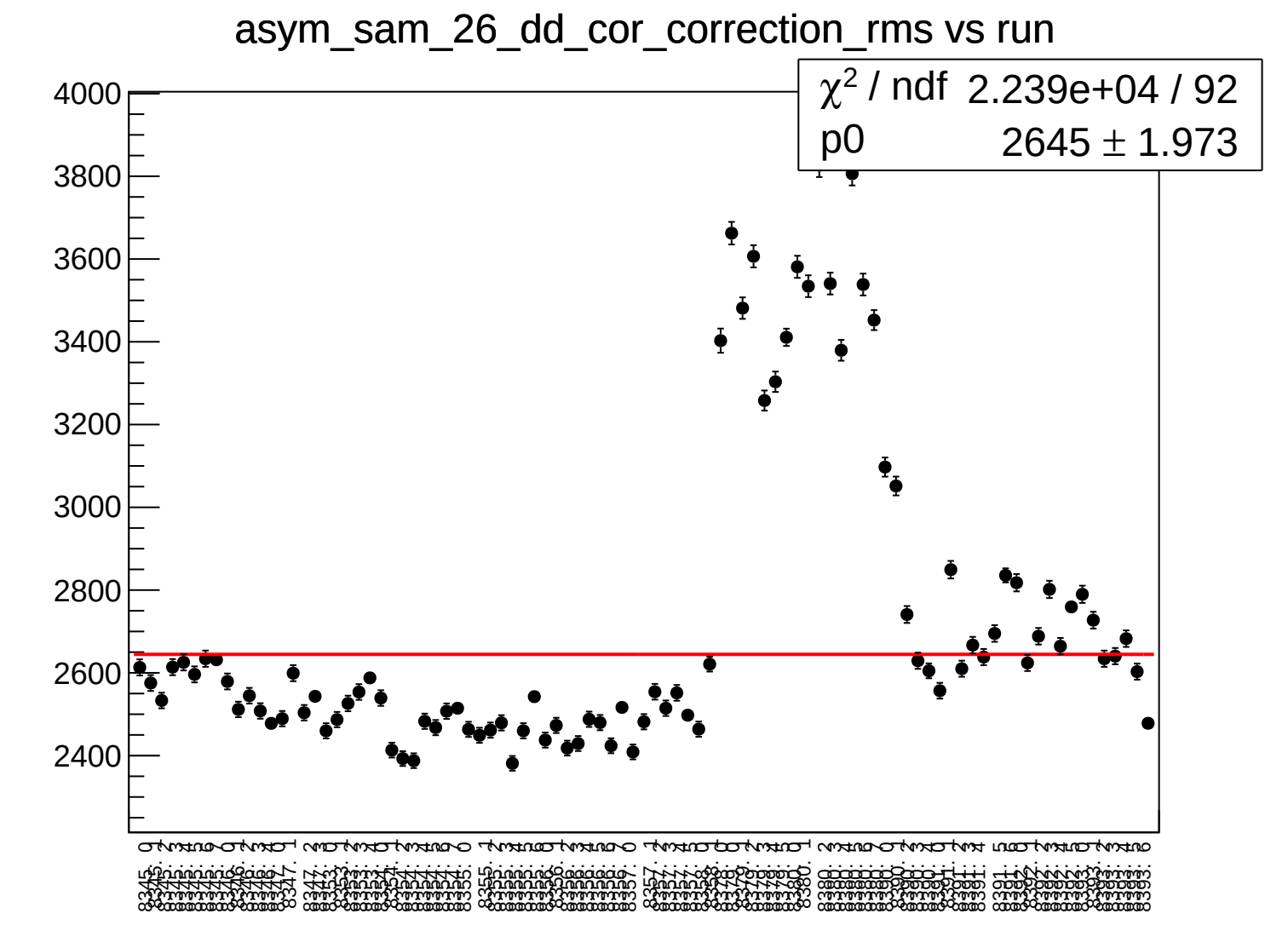

cor_asym_sam_26_dd_mean vs run
χ² / ndf 81.04 / 92
p0 18.73 ± 174.3
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean −143.7
Std Dev 0
2
1
0
−1
−2

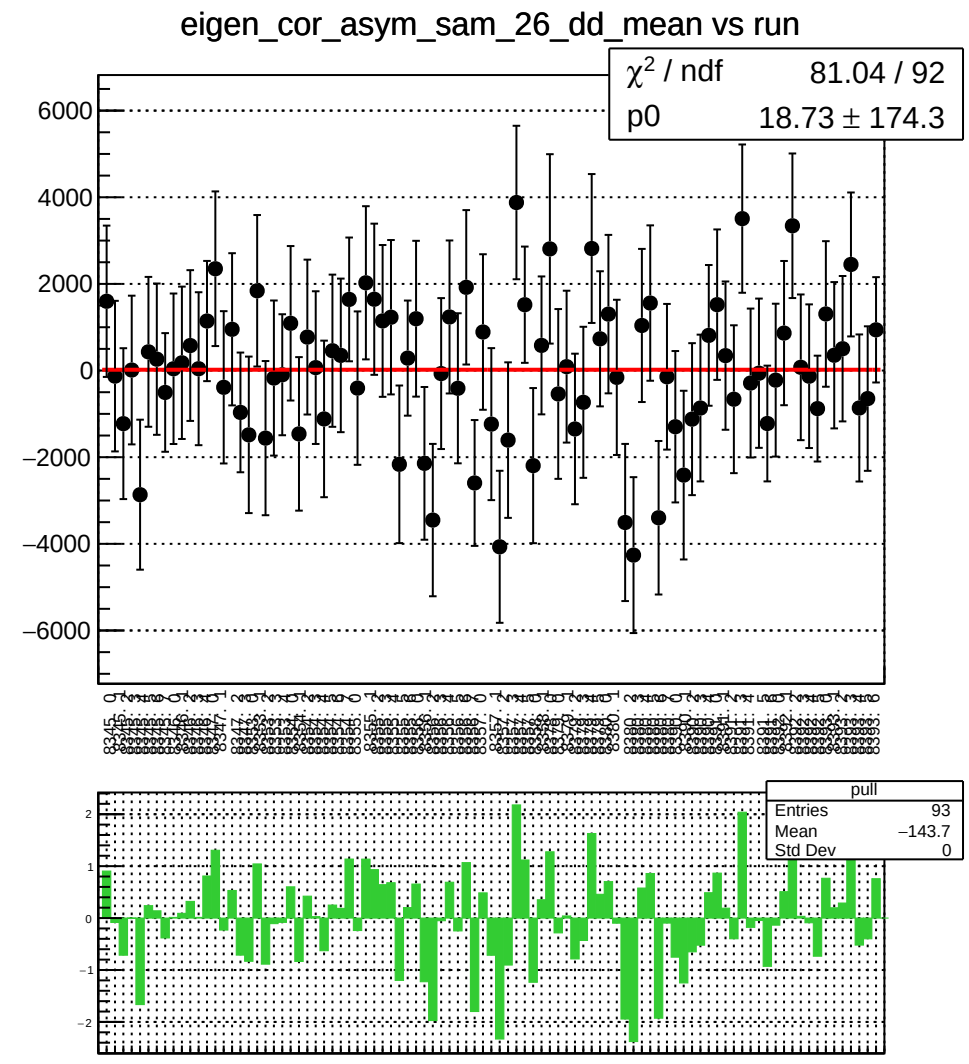

pull1D
Entries 93
Mean −0.003598
Std Dev 0.9335
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

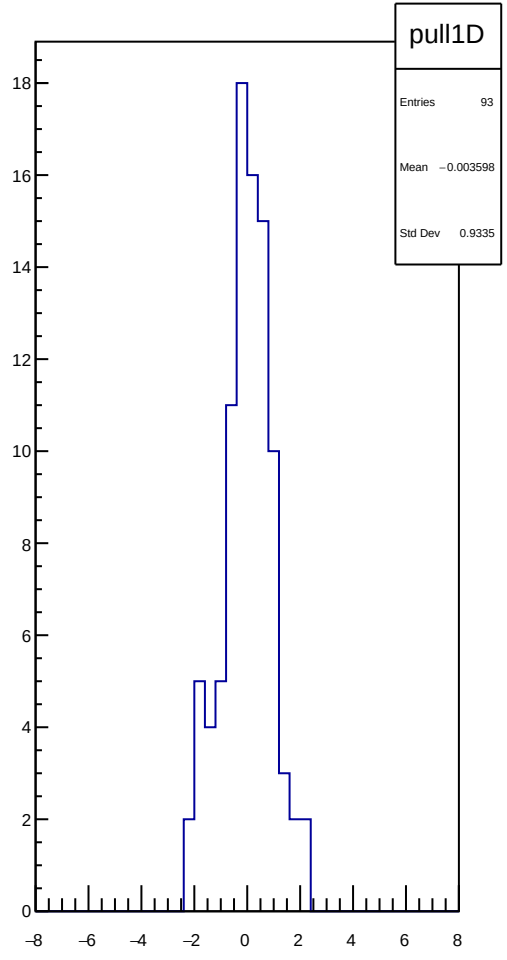

cor_asym_sam_26_dd_rms vs run
χ^2 / ndf 1612 / 92
p0 166.2 ± 0.1233
190
185
180
175
170
165
160
155

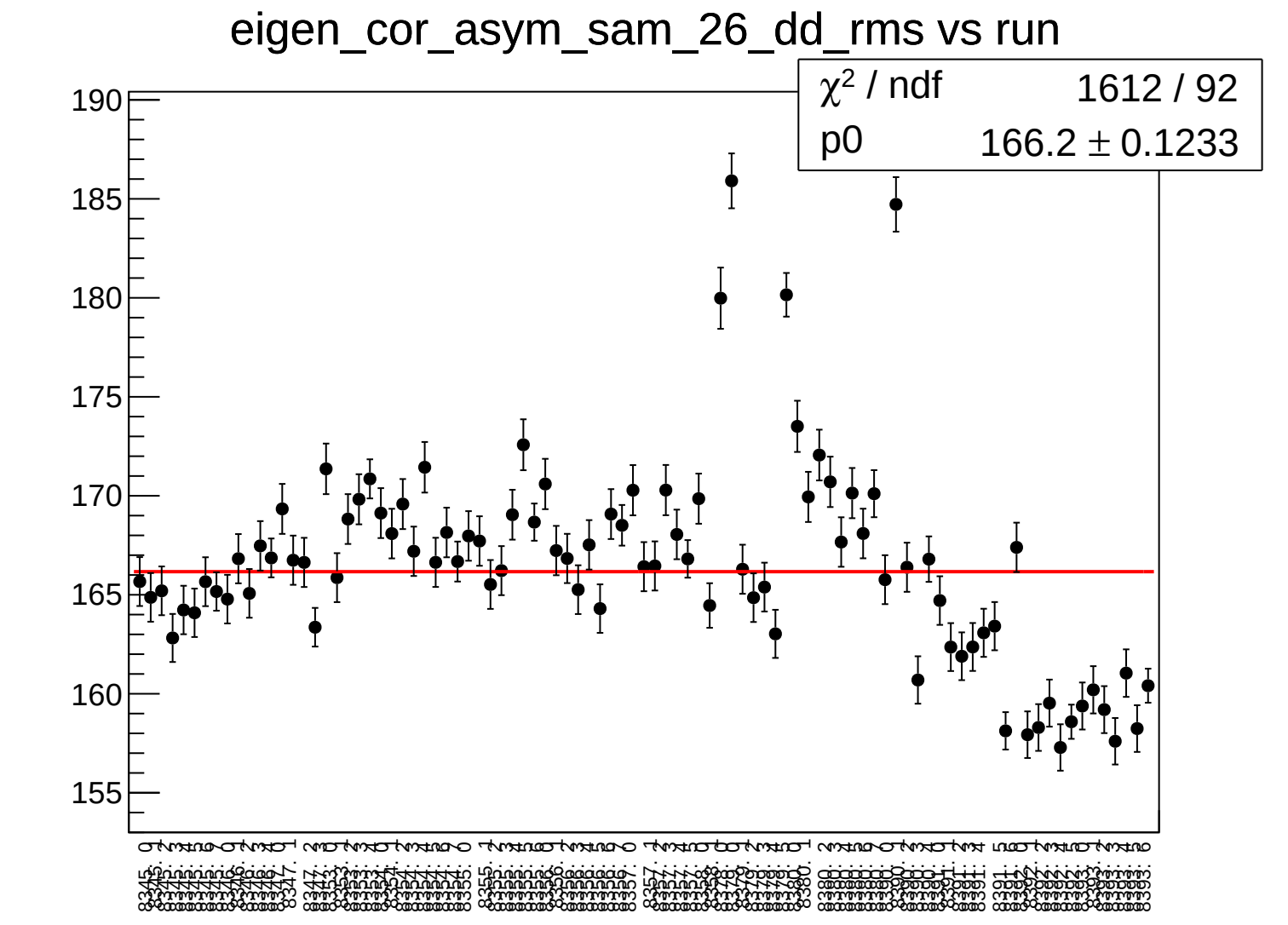

asym_sam_26_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 108.2 / 92
p0 −8392 ± 2790
100
50
0
−50
−100
−150
pull
Entries 93
Mean 7098
Std Dev 0
3
2
1
0
−1
−2
−3

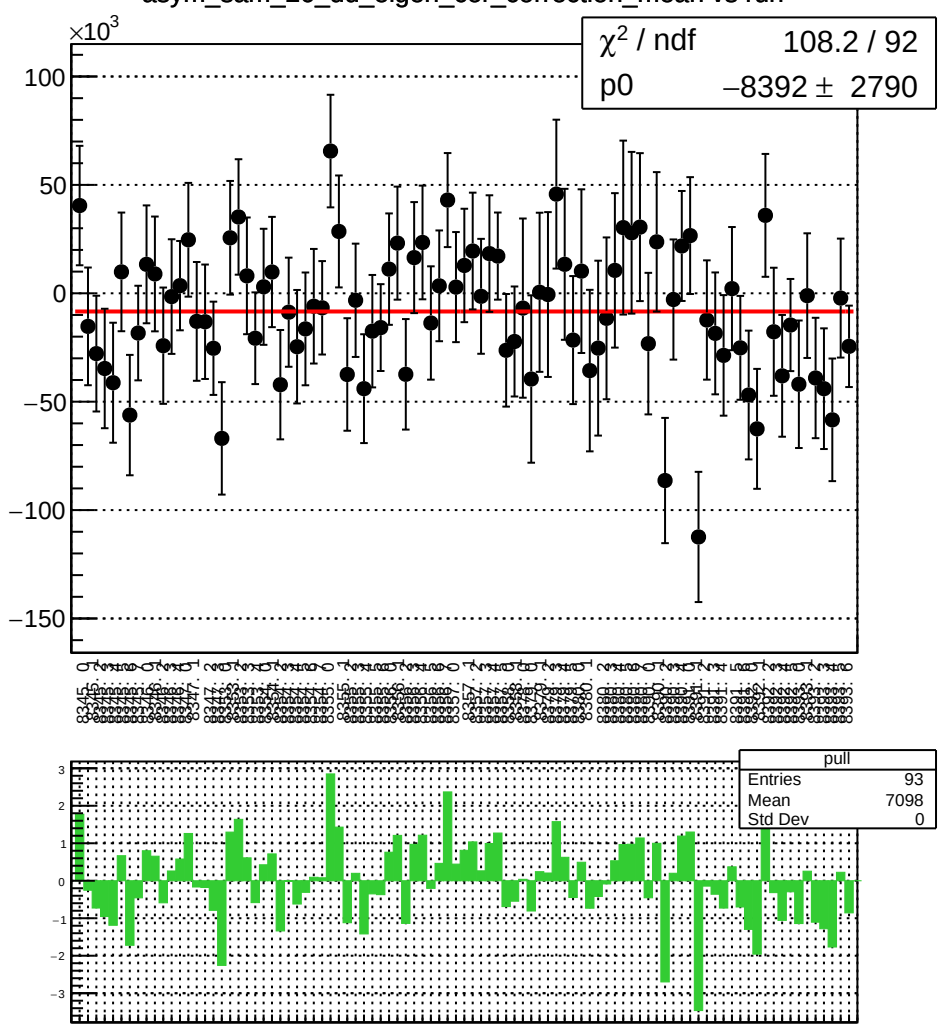

pull1D
Entries 93
Mean −0.0006427
Std Dev 1.079
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

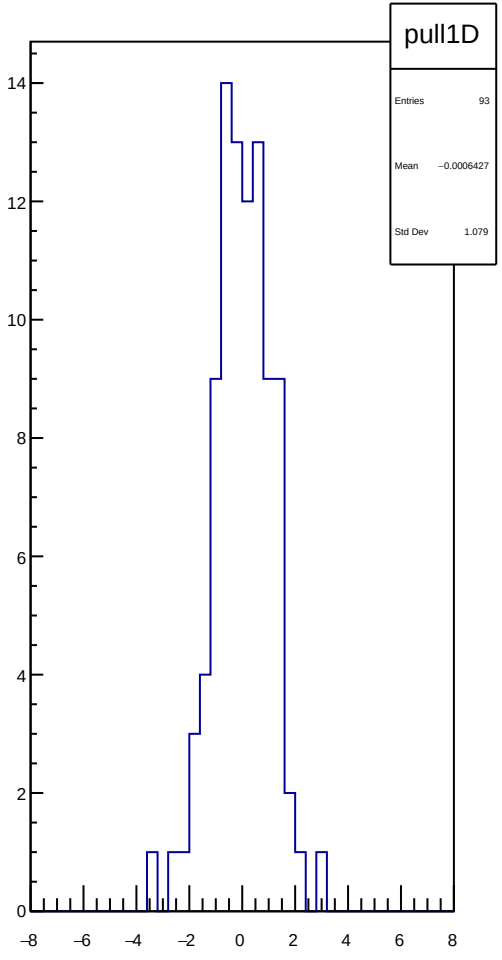

asym_sam_26_dd_cor_correction_rms vs run
χ² / ndf 2.239e+04 / 92
p0 2645 ± 1.973
4000
3800
3600
3400
3200
3000
2800
2600
2400

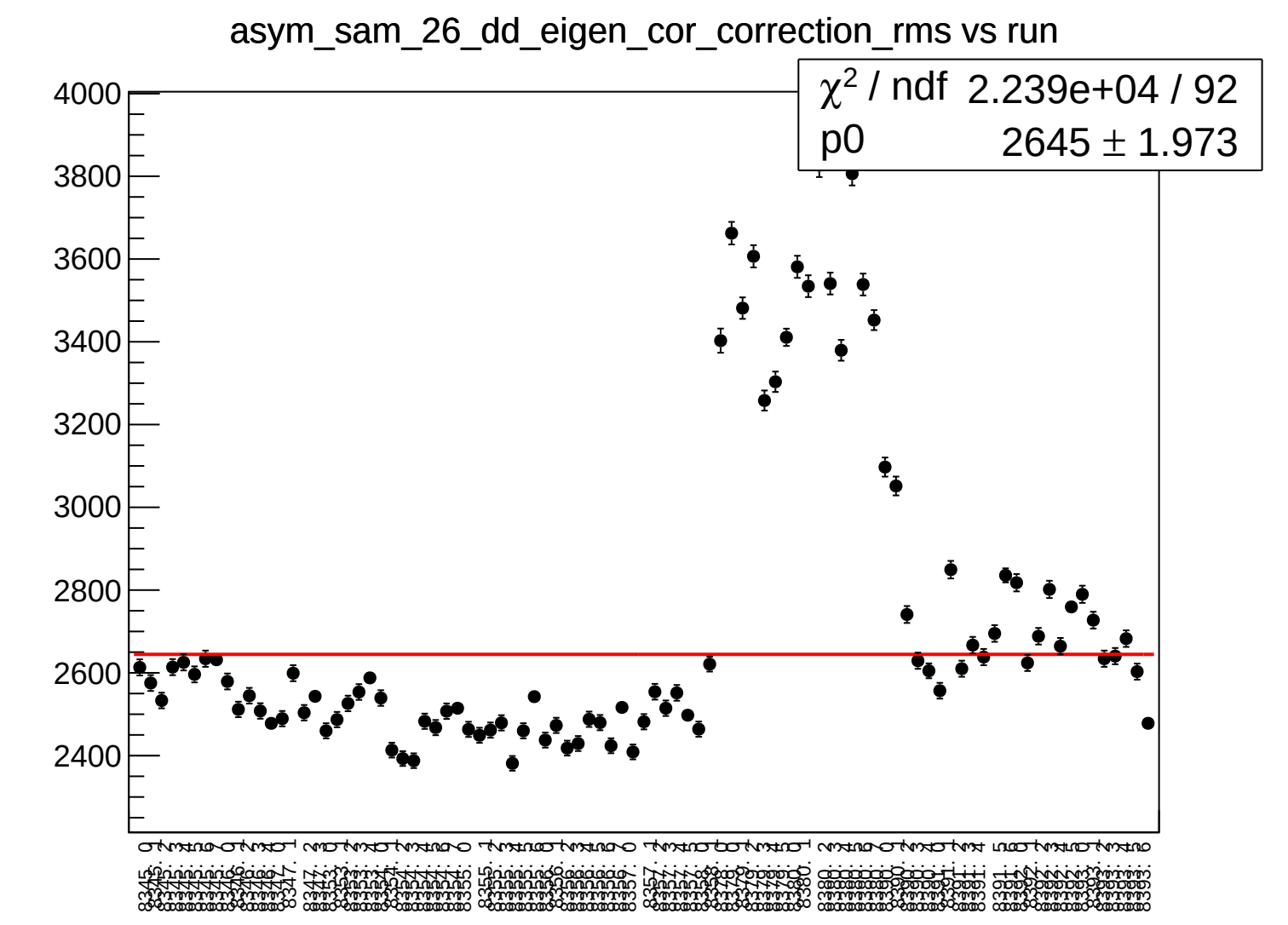

eigen_cor_asym_sam_26_dd_mean vs run
χ² / ndf 81.04 / 92
p0 18.73 ± 174.3
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean −143.7
Std Dev 0
2
1
0
−1
−2

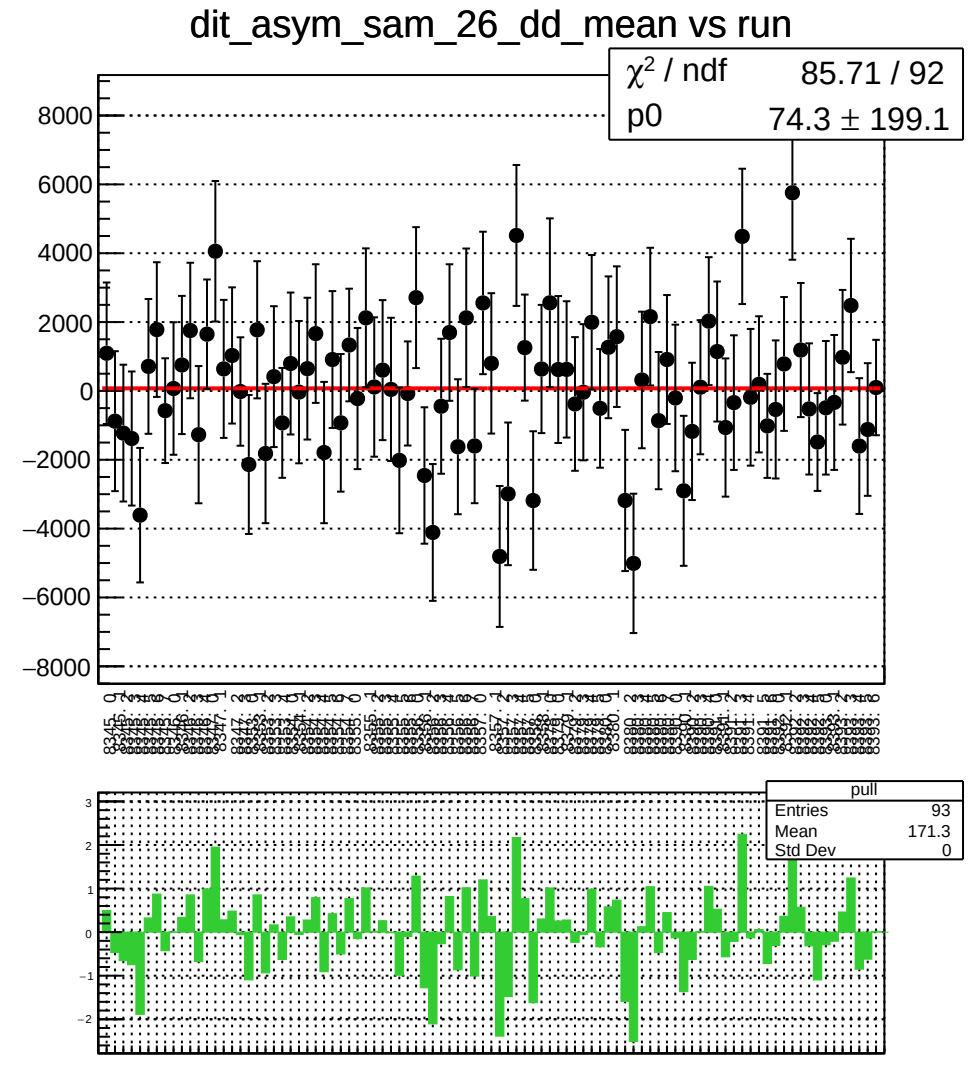

pull1D
Entries 93
Mean −0.003598
Std Dev 0.9335
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

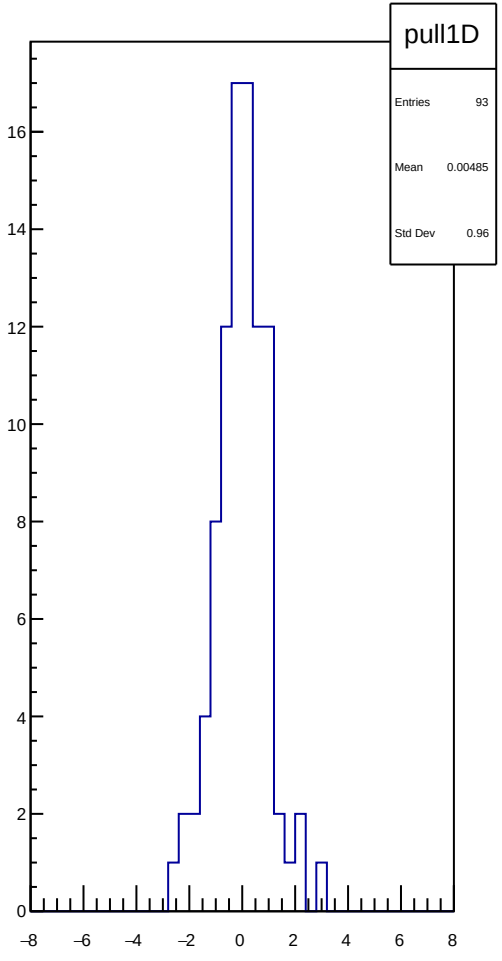

eigen_cor_asym_sam_26_dd_rms vs run
χ² / ndf 1612 / 92
p0 166.2 ± 0.1233
190
185
180
175
170
165
160
155

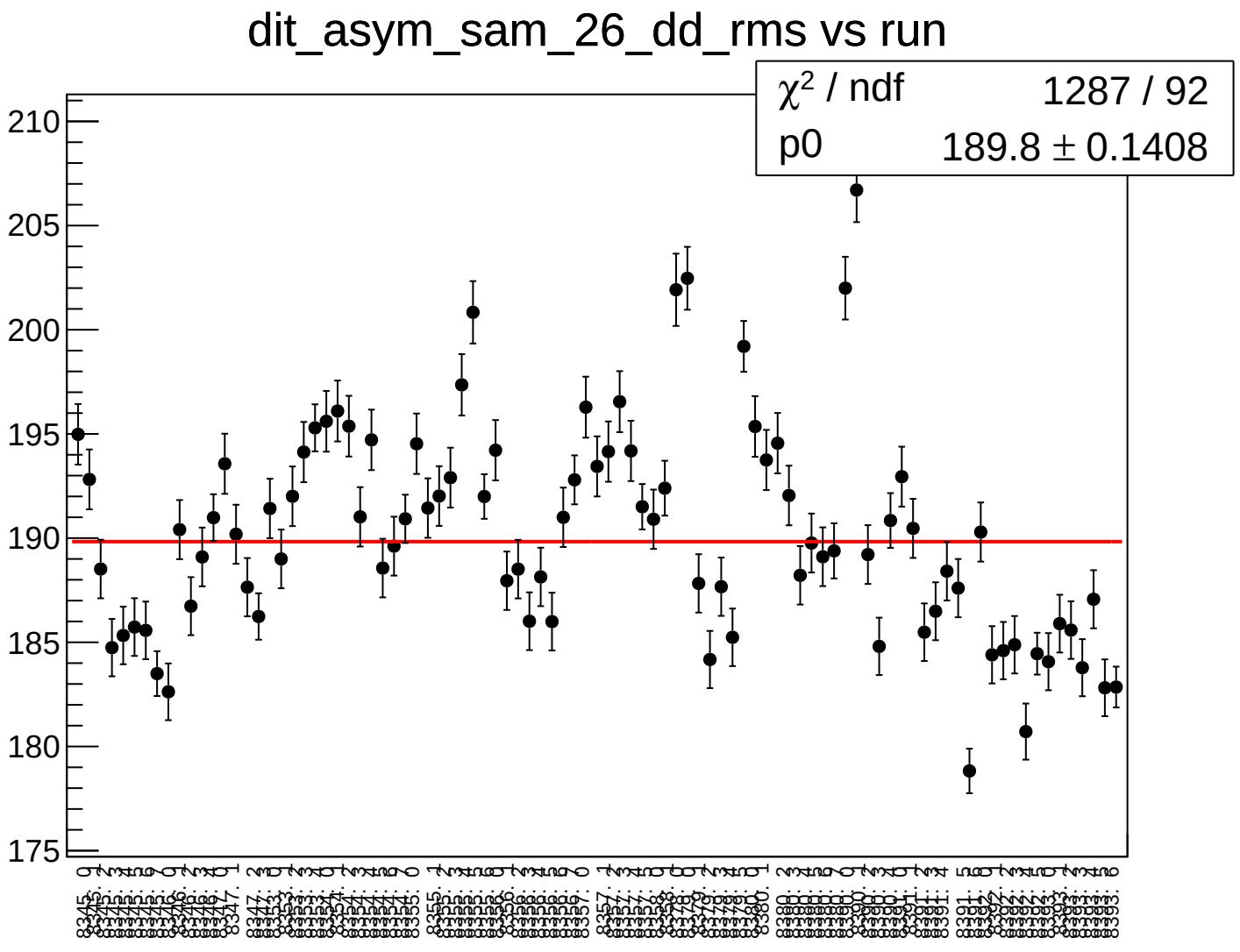

asym_sam_26_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 108.2 / 92
p0 −8392 ± 2790
100
50
0
−50
−100
−150
pull
Entries 93
Mean 7098
Std Dev 0
3
2
1
0
−1
−2
−3

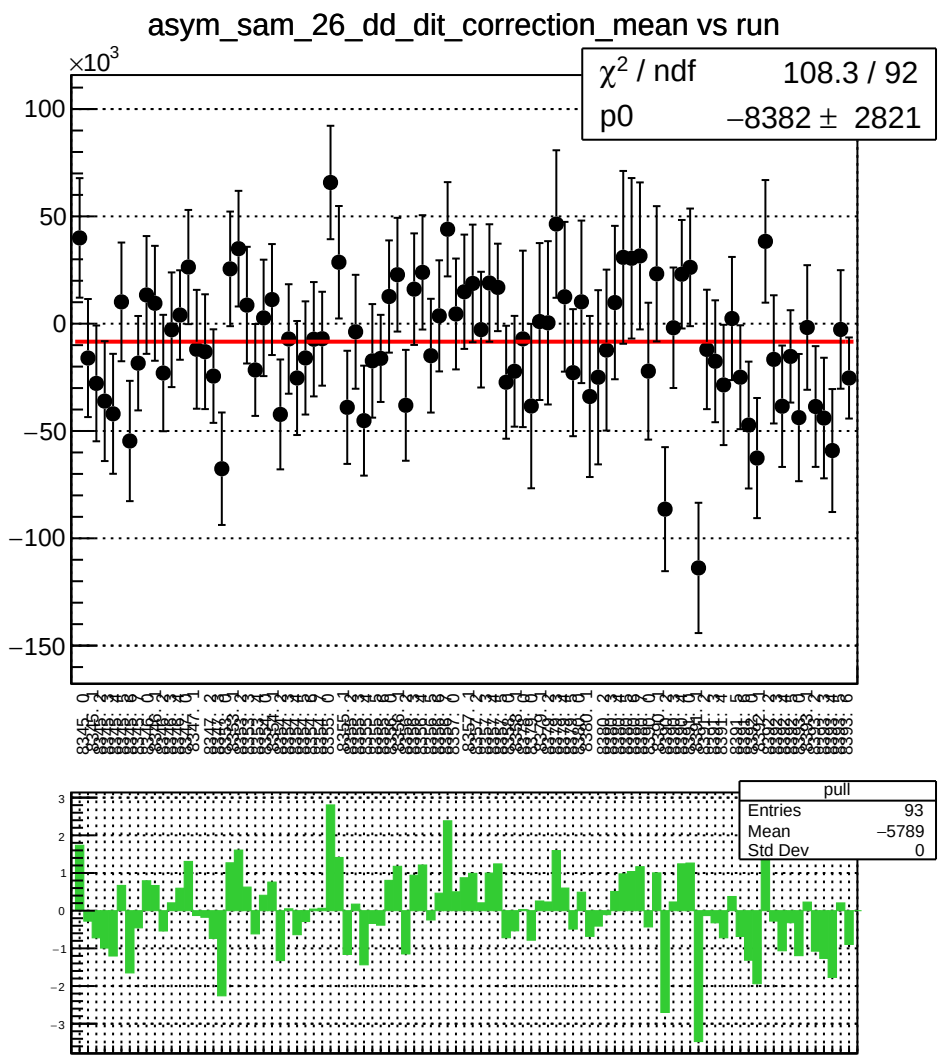

pull1D
Entries 93
Mean −0.0006427
Std Dev 1.079
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

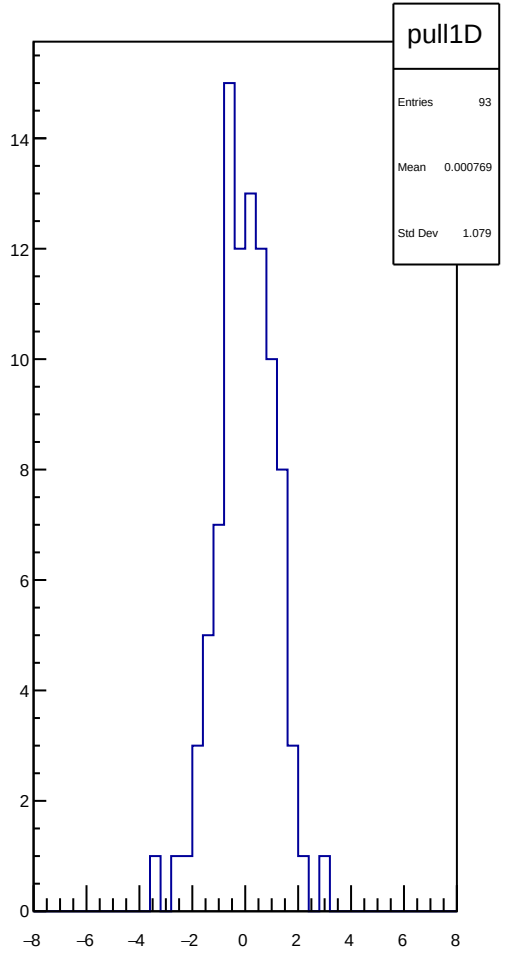

asym_sam_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.239e+04 / 92
p0 2645 ± 1.973
4000
3800
3600
3400
3200
3000
2800
2600
2400

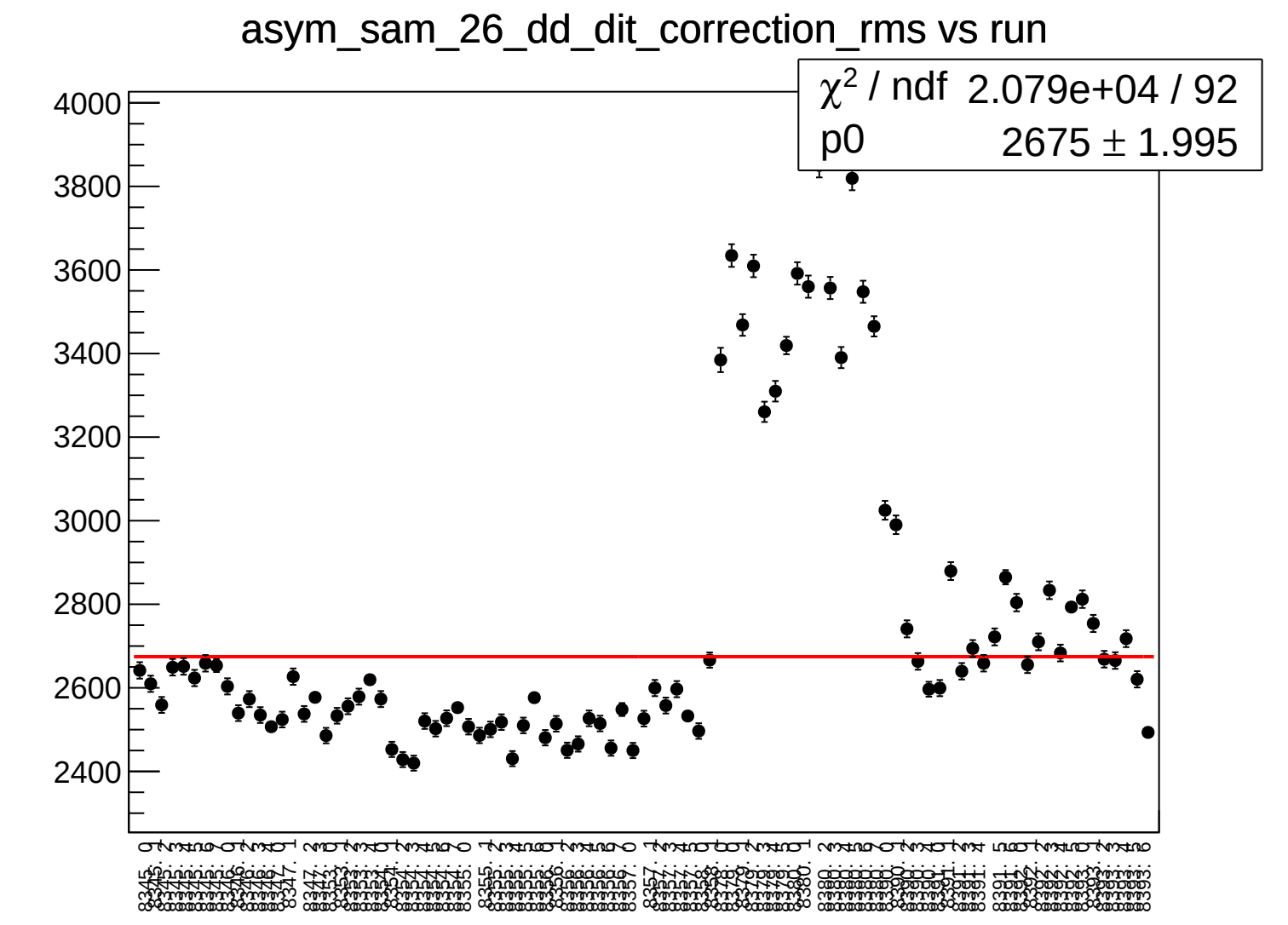

dit_asym_sam_26_dd_mean vs run
χ² / ndf 85.71 / 92
p0 74.3 ± 199.1
pull
Entries 93
Mean 171.3
Std Dev 0

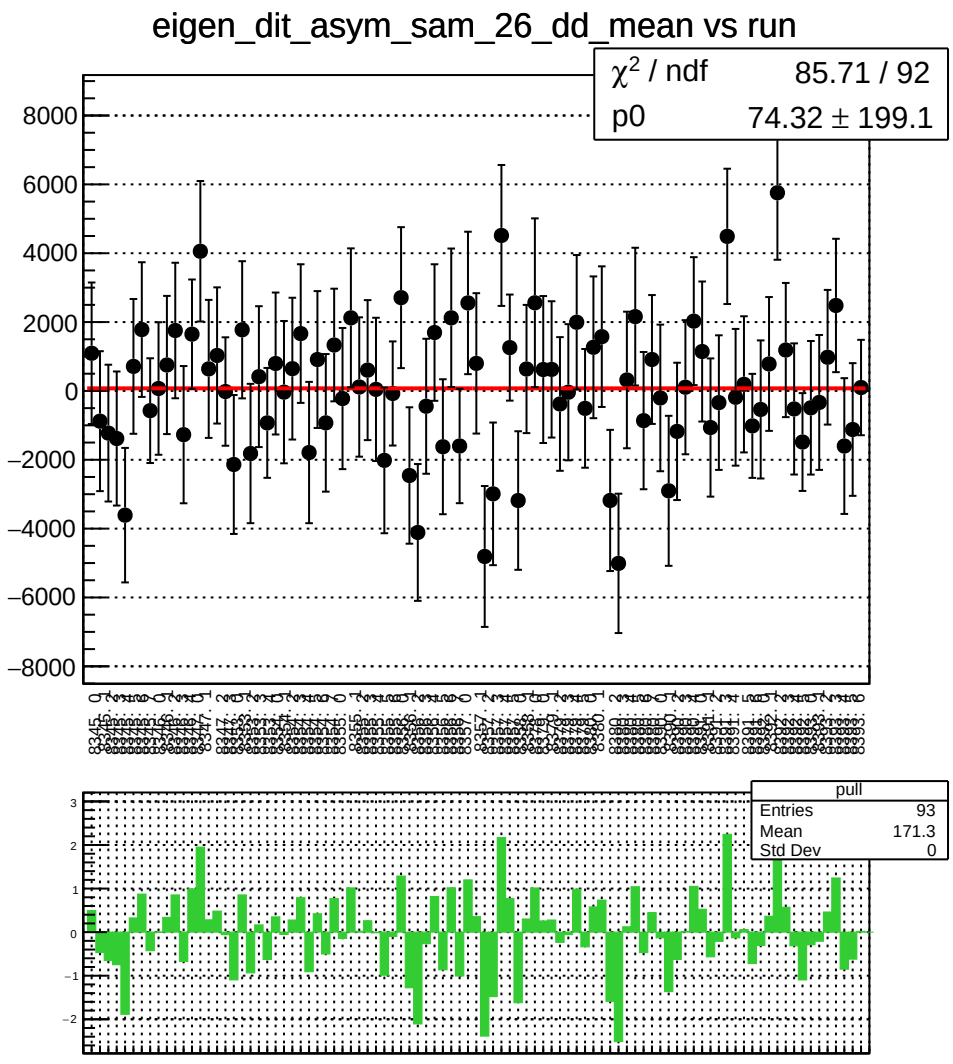

pull1D
Entries 93
Mean 0.00485
Std Dev 0.96

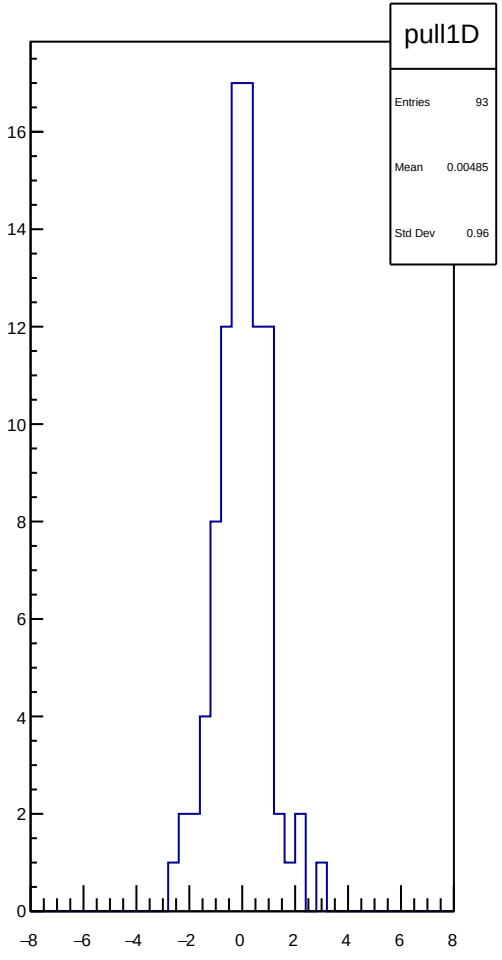

dit_asym_sam_26_dd_rms vs run
χ² / ndf 1287 / 92
p0 189.8 ± 0.1408
210
205
200
195
190
185
180
175

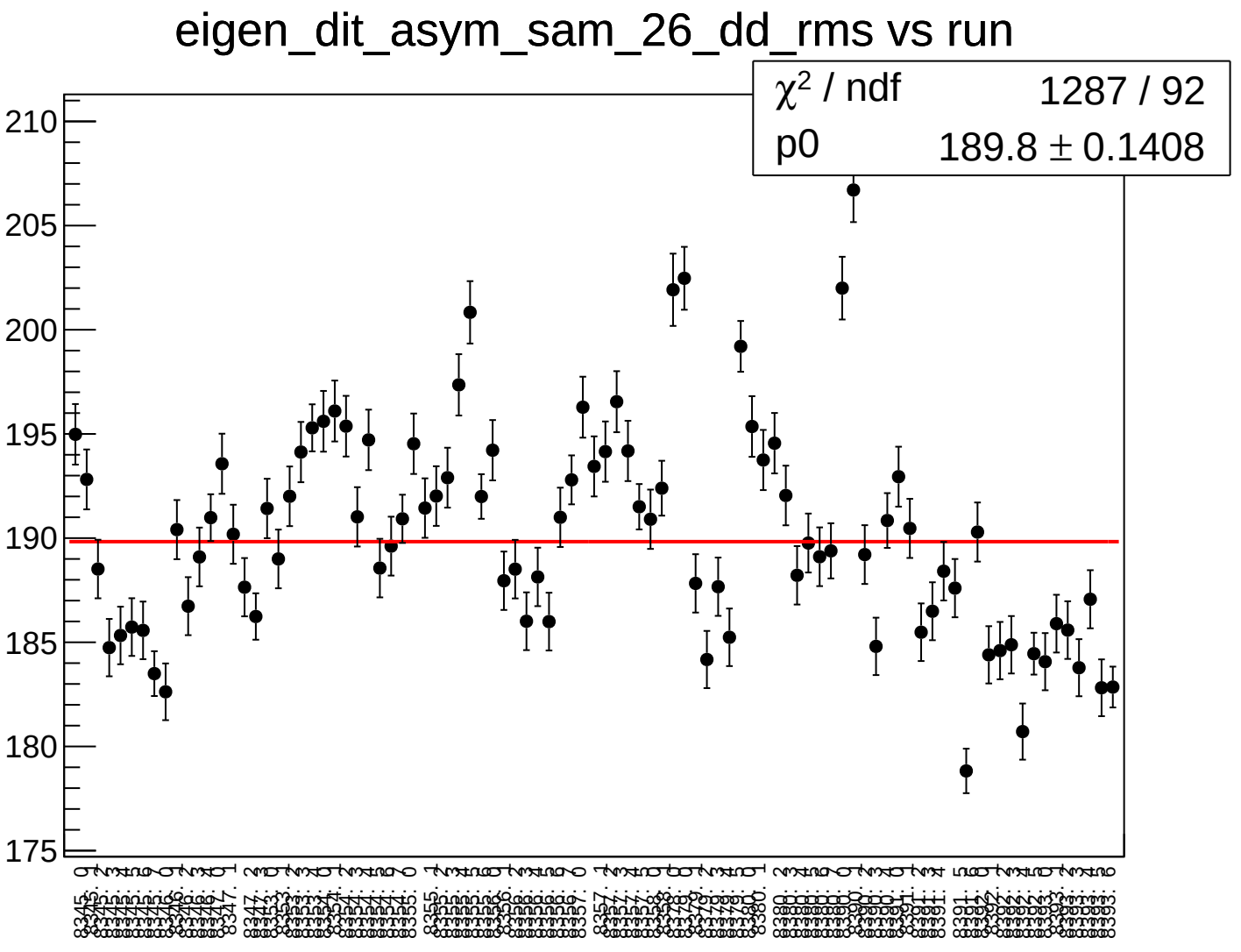

asym_sam_26_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 108.3 / 92
p0 −8382 ± 2821
100
50
0
−50
−100
−150
pull
Entries 93
Mean −5789
Std Dev 0
3
2
1
0
−1
−2
−3

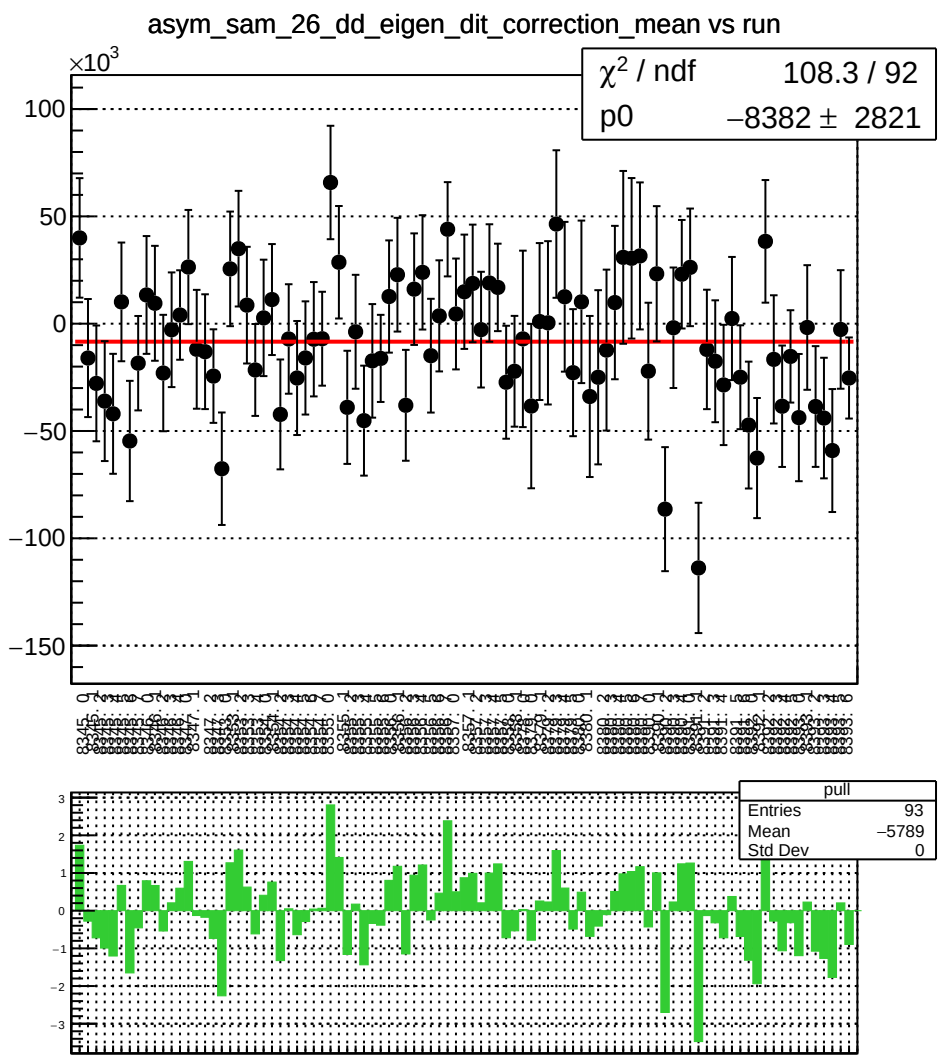

pull1D
Entries 93
Mean 0.000769
Std Dev 1.079
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

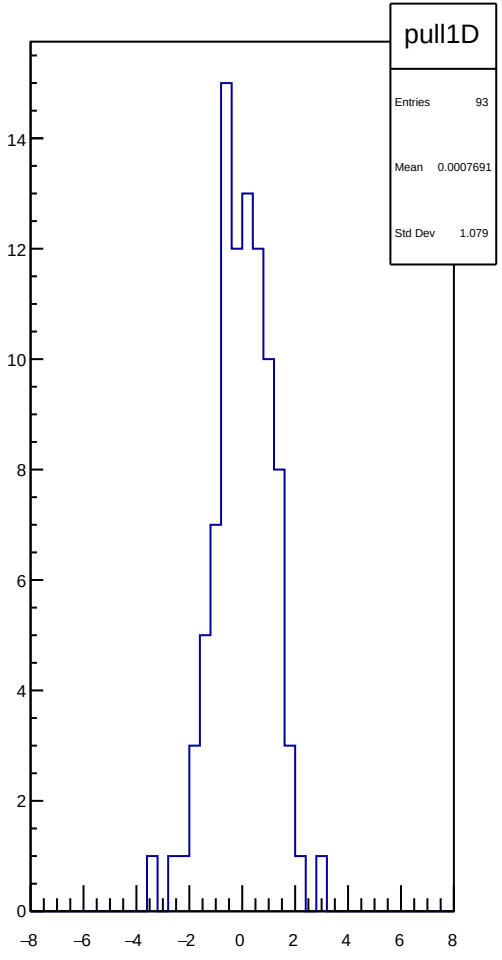

asym_sam_26_dd_dit_correction_rms vs run
χ² / ndf 2.079e+04 / 92
p0 2675 ± 1.995
4000
3800
3600
3400
3200
3000
2800
2600
2400

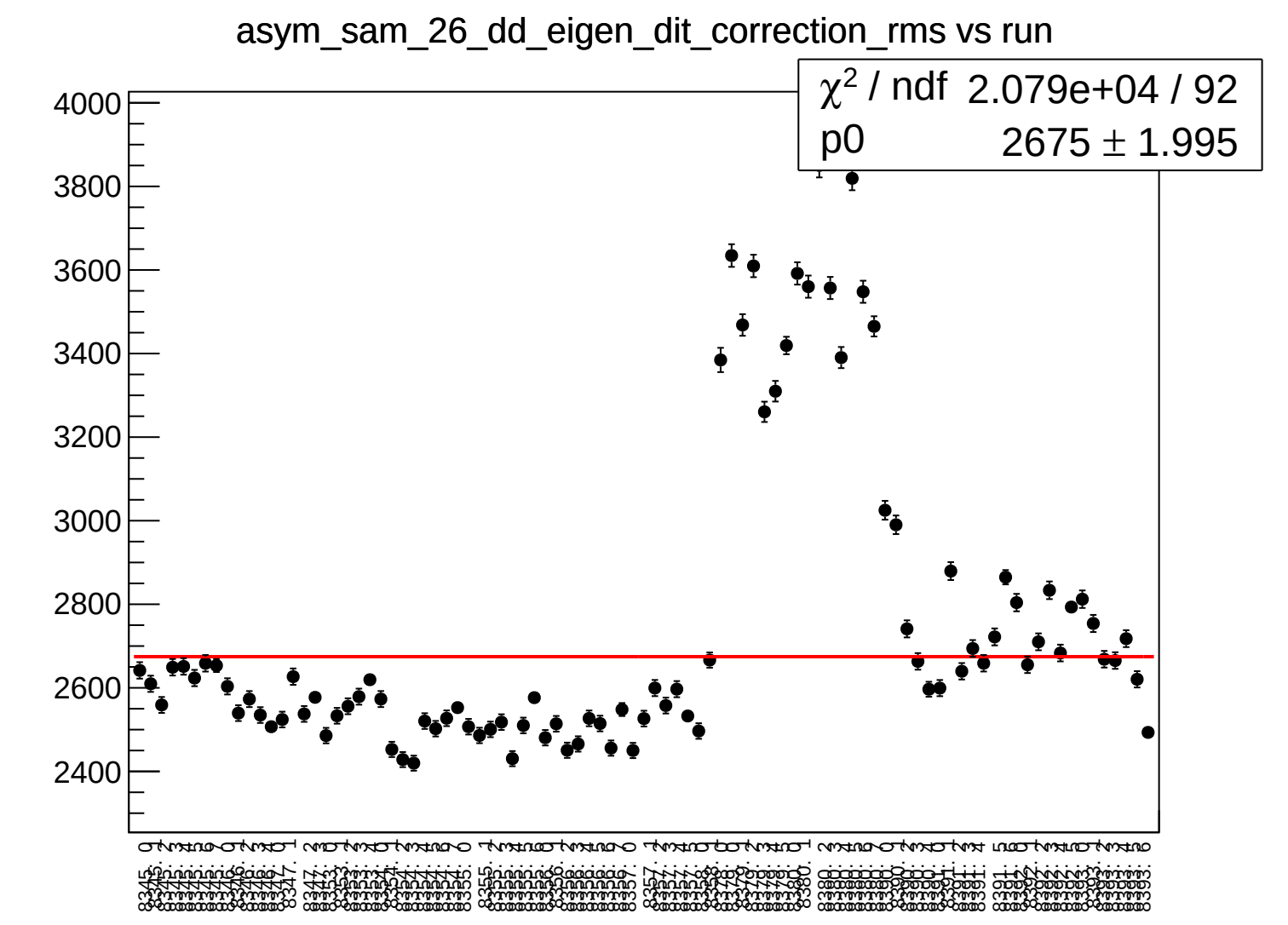

eigen_dit_asym_sam_26_dd_mean vs run
χ² / ndf 85.71 / 92
p0 74.32 ± 199.1
pull
Entries 93
Mean 171.3
Std Dev 0

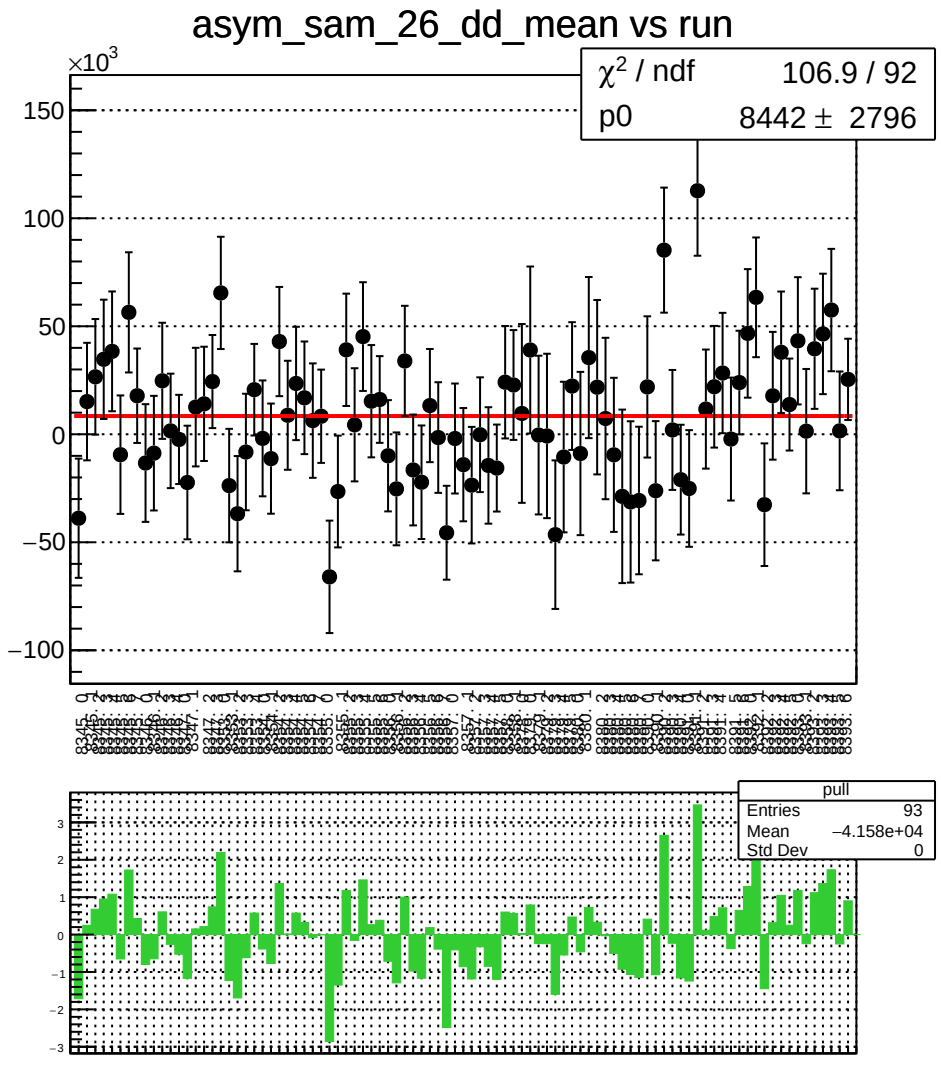

pull1D
Entries 93
Mean 0.00485
Std Dev 0.96

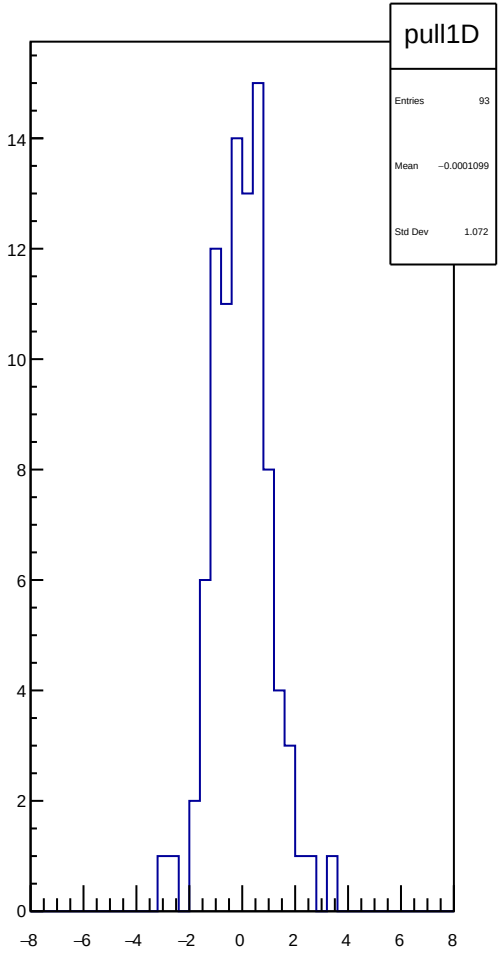

eigen_dit_asym_sam_26_dd_rms vs run
χ^2 / ndf 1287 / 92
p0 189.8 ± 0.1408
210
205
200
195
190
185
180
175

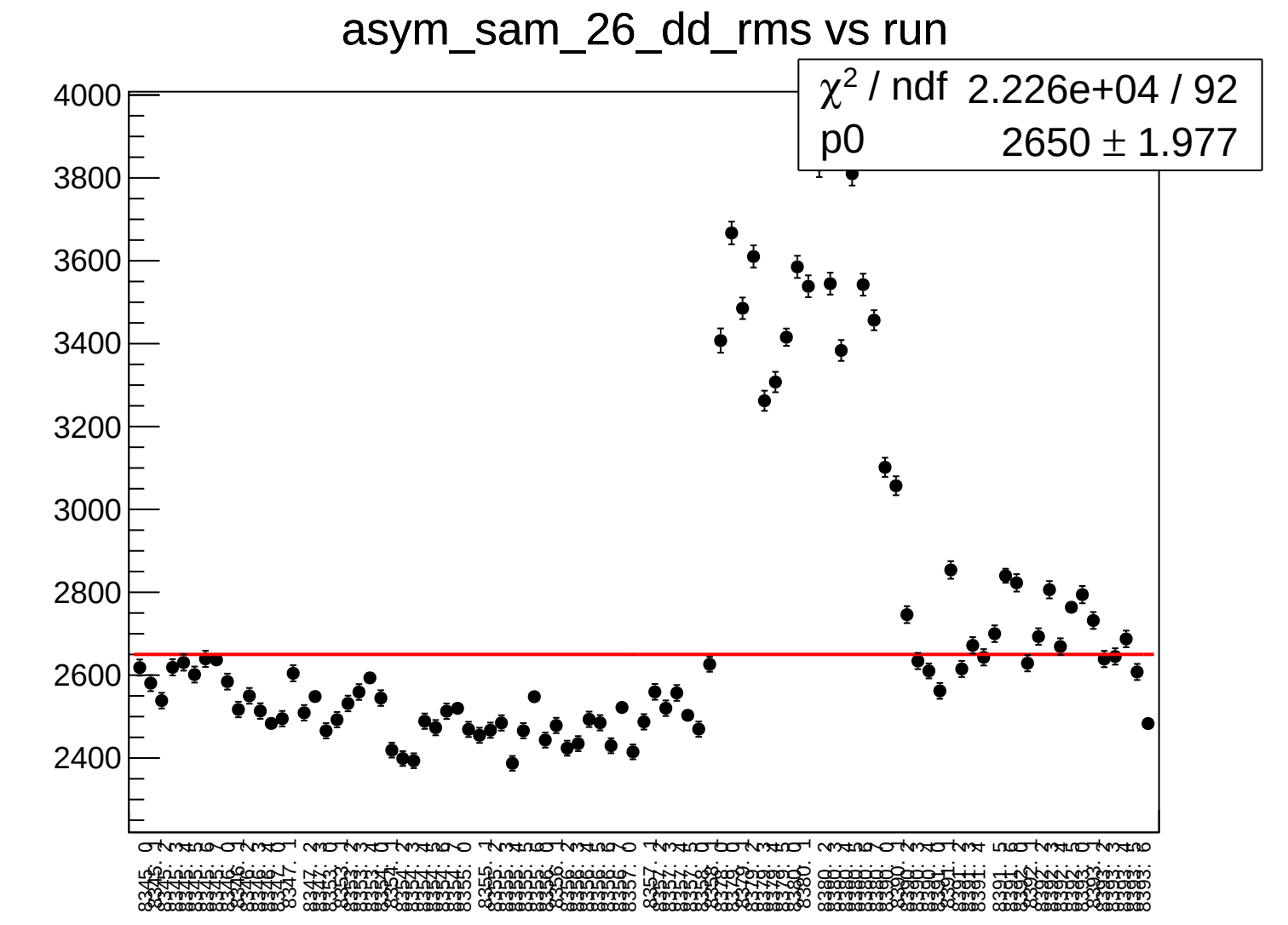

asym_sam_26_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 108.3 / 92
p0 −8382 ± 2821
100
50
0
−50
−100
−150
pull
Entries 93
Mean −5789
Std Dev 0
3
2
1
0
−1
−2
−3

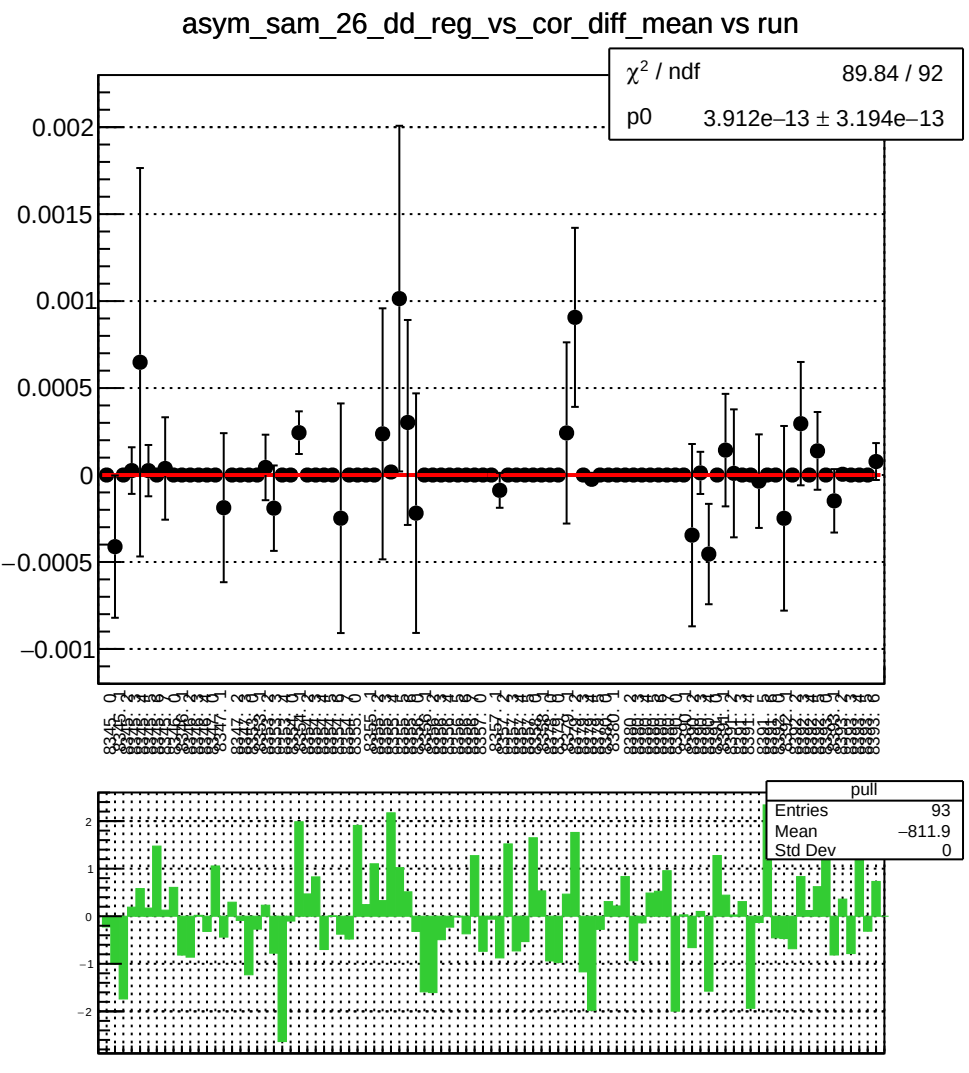

pull1D
Entries 93
Mean 0.0007691
Std Dev 1.079
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

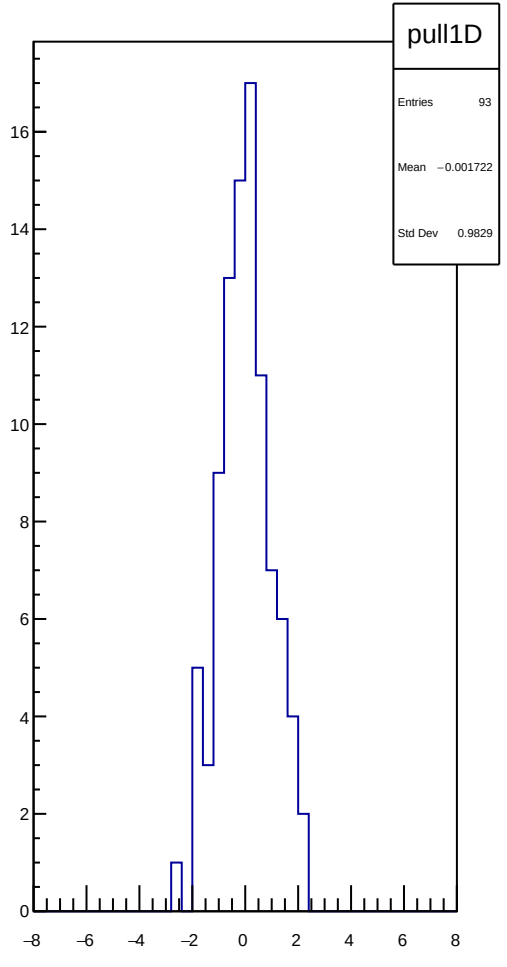

asym_sam_26_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 2.079e+04 / 92
p0 2675 ± 1.995
4000
3800
3600
3400
3200
3000
2800
2600
2400

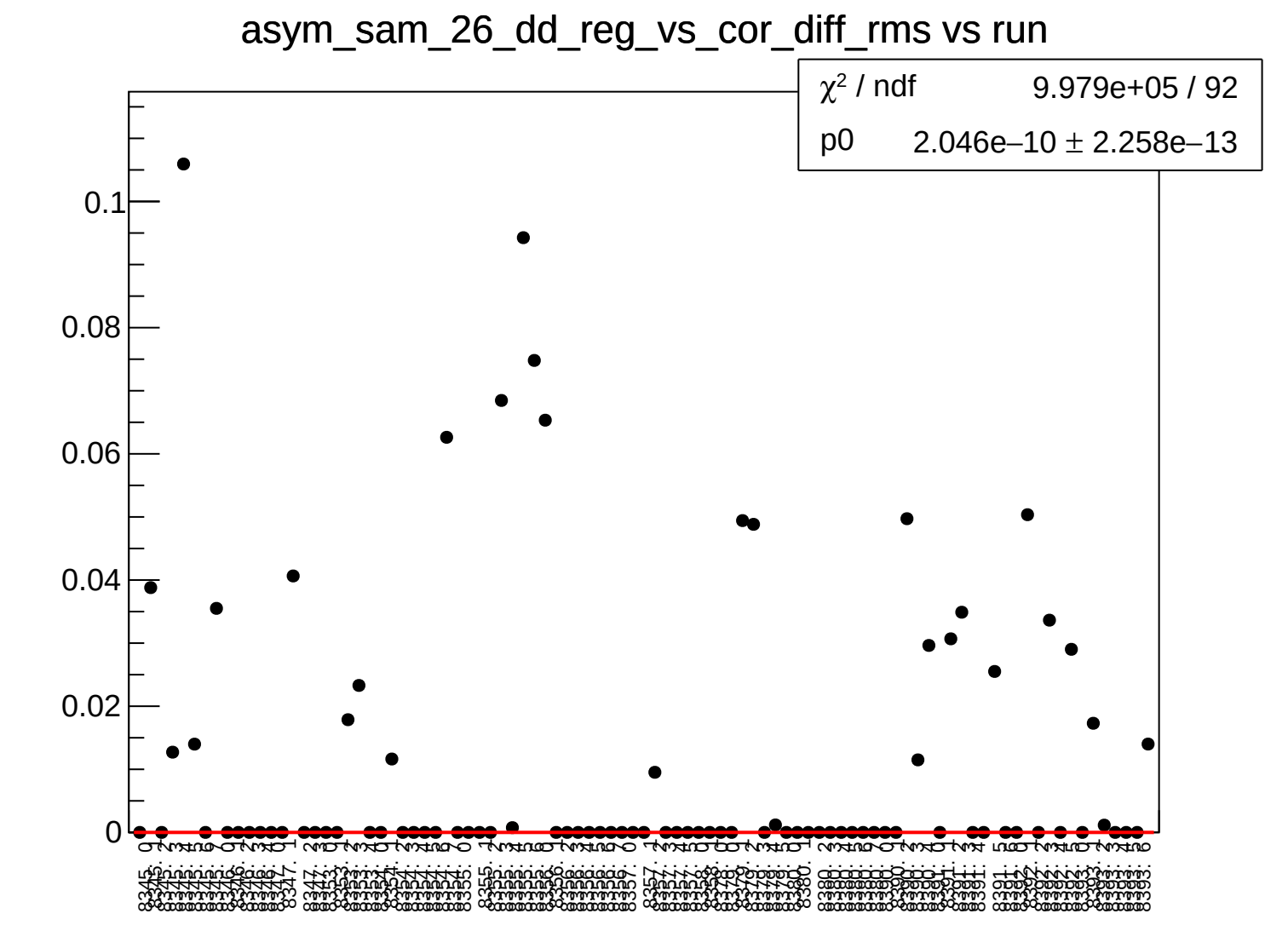

asym_sam_26_dd_mean vs run
×10^3
χ^2 / ndf 106.9 / 92
p0 8442 ± 2796
150
100
50
0
−50
−100
pull
Entries 93
Mean −4.158e+04
Std Dev 0
3
2
1
0
−1
−2
−3

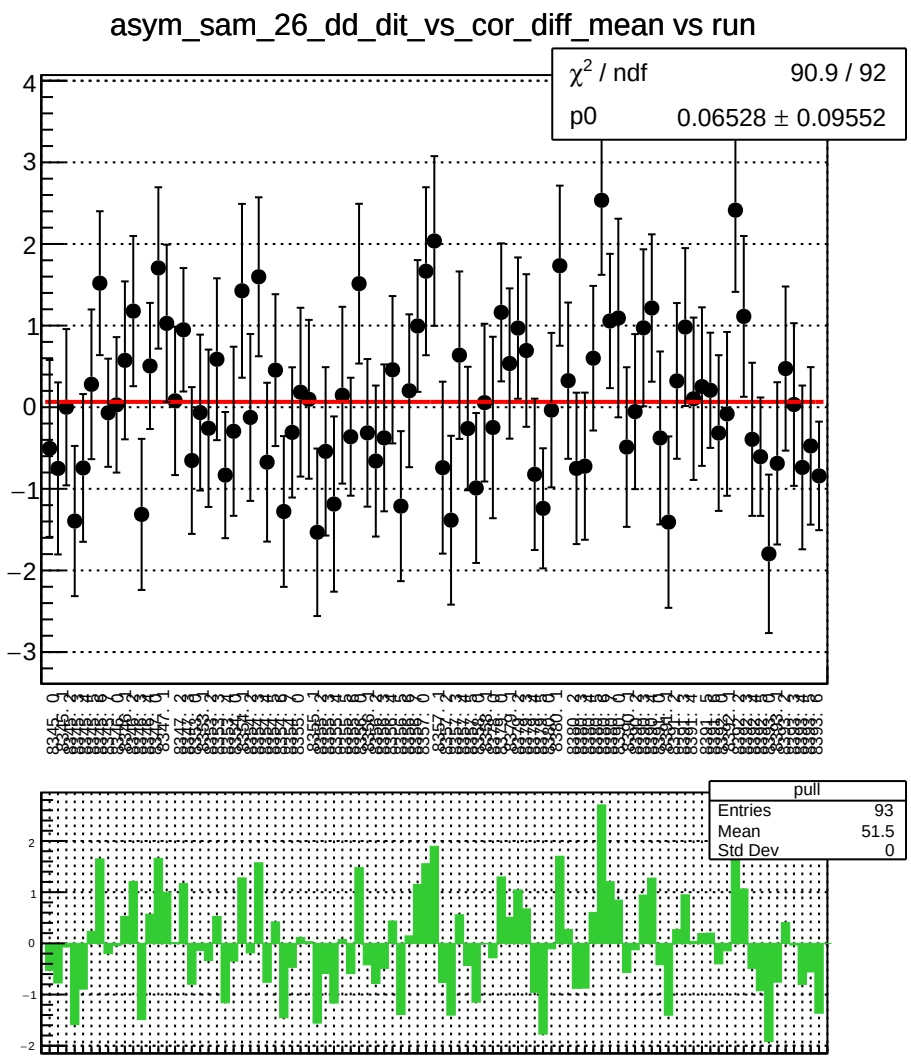

pull1D
Entries 93
Mean −0.0001099
Std Dev 1.072
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

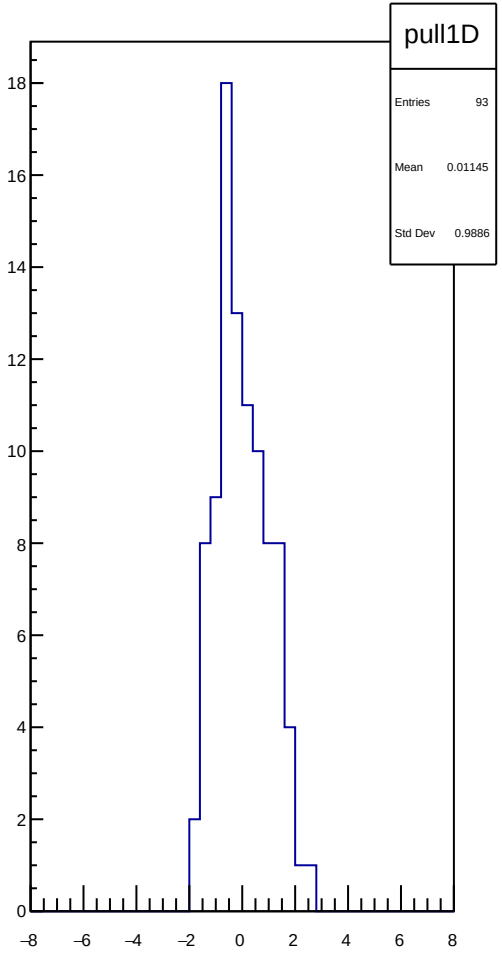

asym_sam_26_dd_rms vs run
χ² / ndf 2.226e+04 / 92
p0 2650 ± 1.977
4000
3800
3600
3400
3200
3000
2800
2600
2400

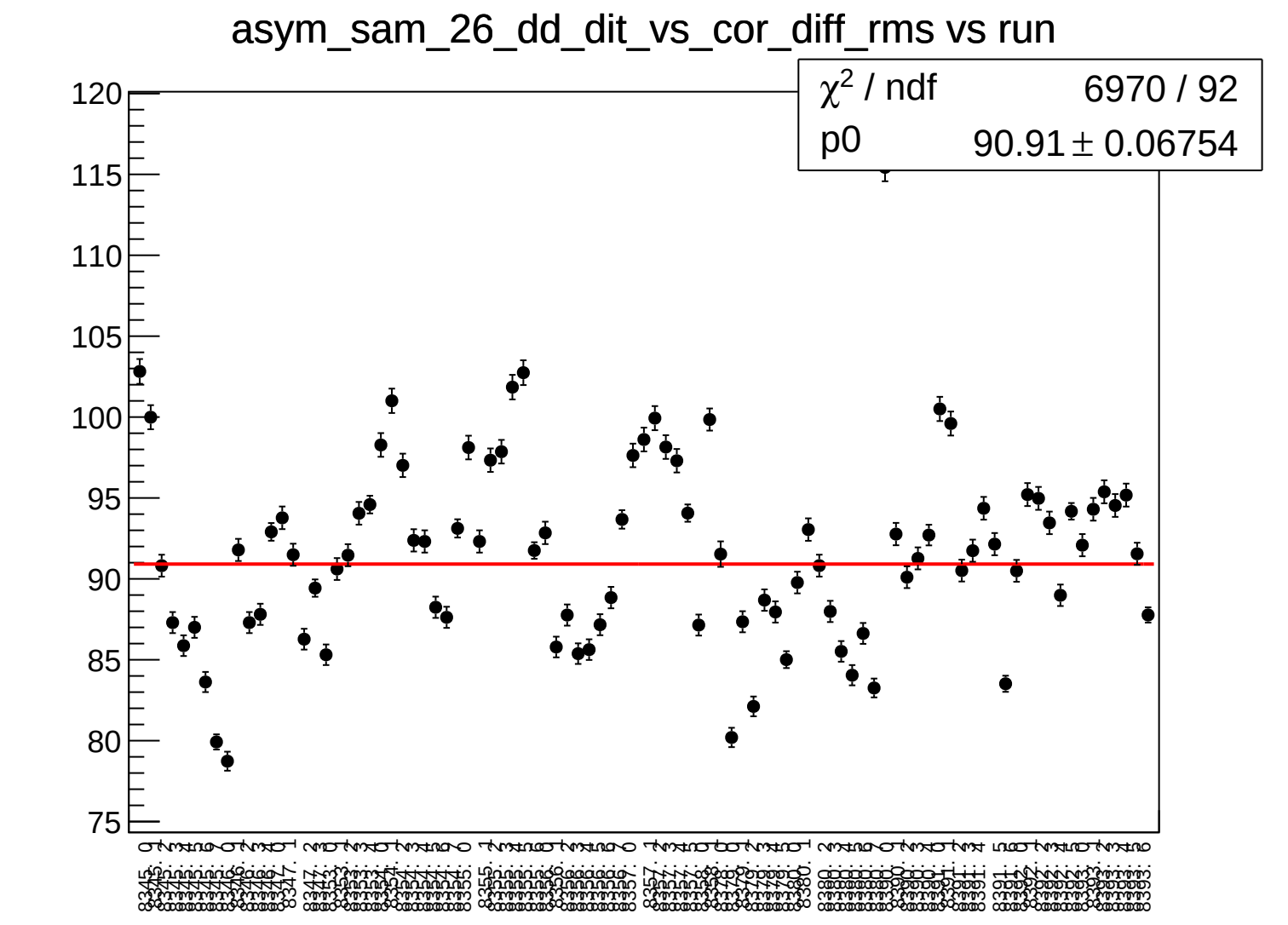

asym_sam_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 89.84 / 92
p0 3.912e−13 ± 3.194e−13
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 93
Mean −811.9
Std Dev 0
2
1
0
−1
−2

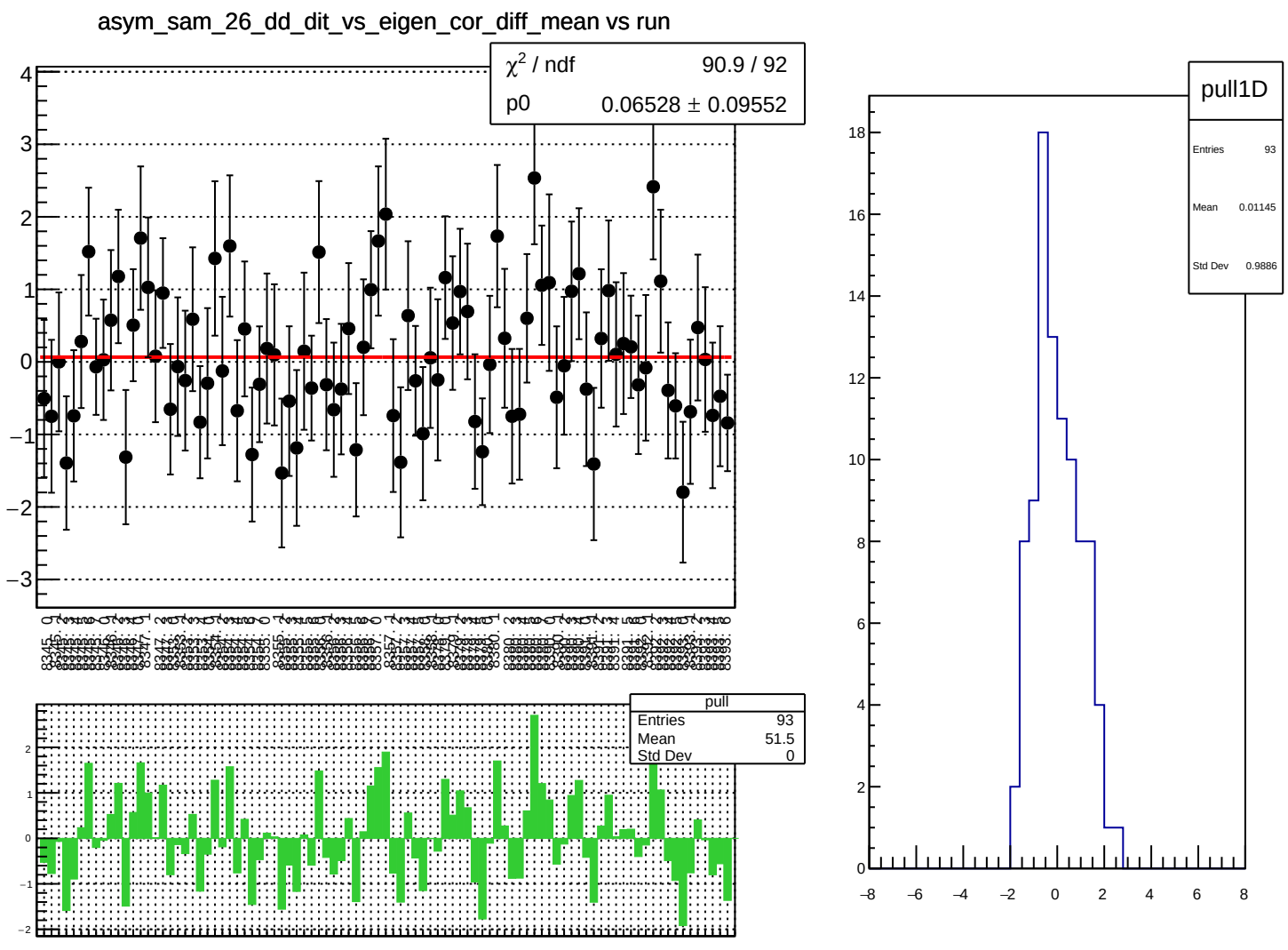

pull1D
Entries 93
Mean −0.001722
Std Dev 0.9829
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

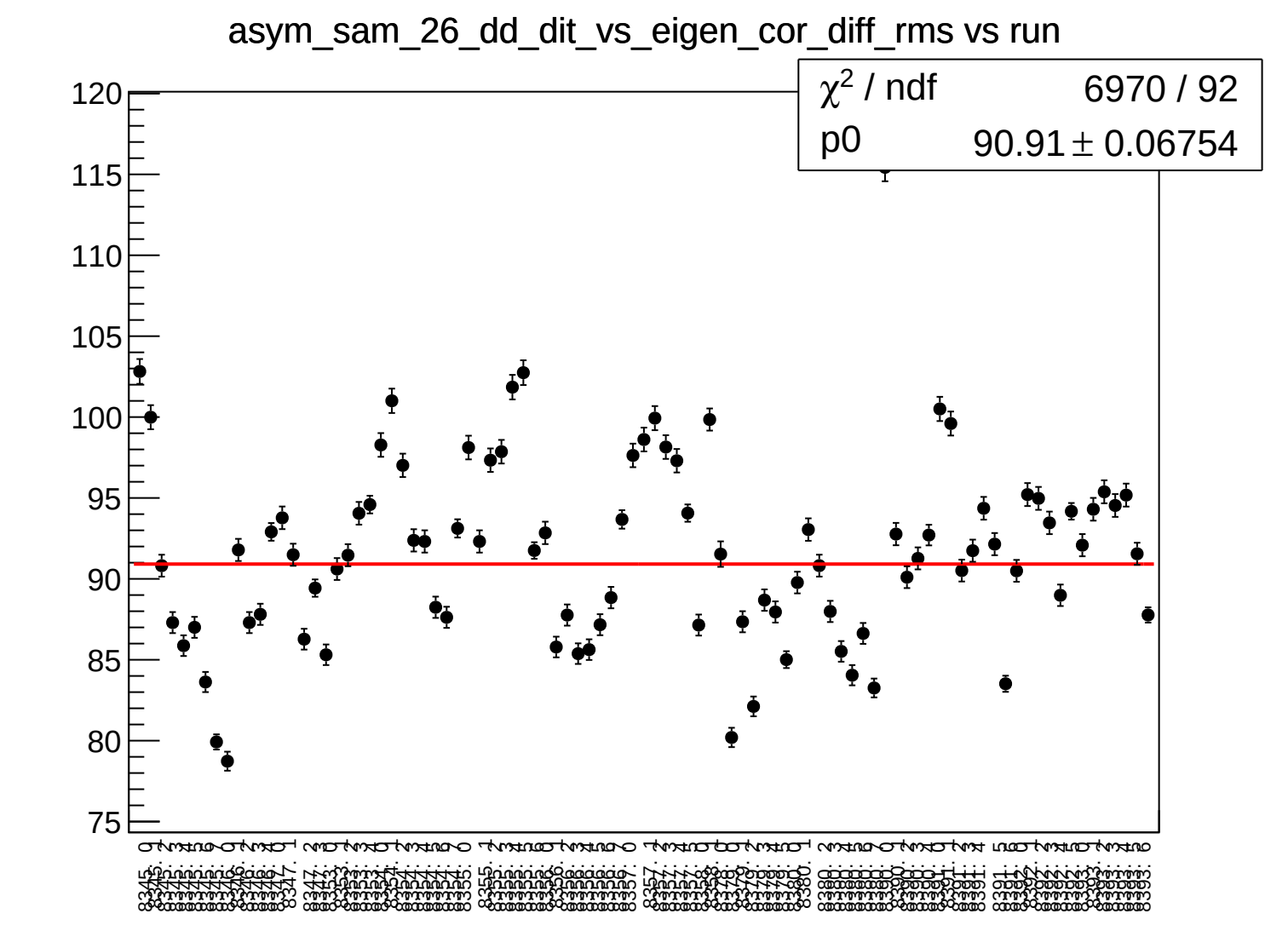

asym_sam_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.979e+05 / 92
p0 2.046e−10 ± 2.258e−13
0.1
0.08
0.06
0.04
0.02
0

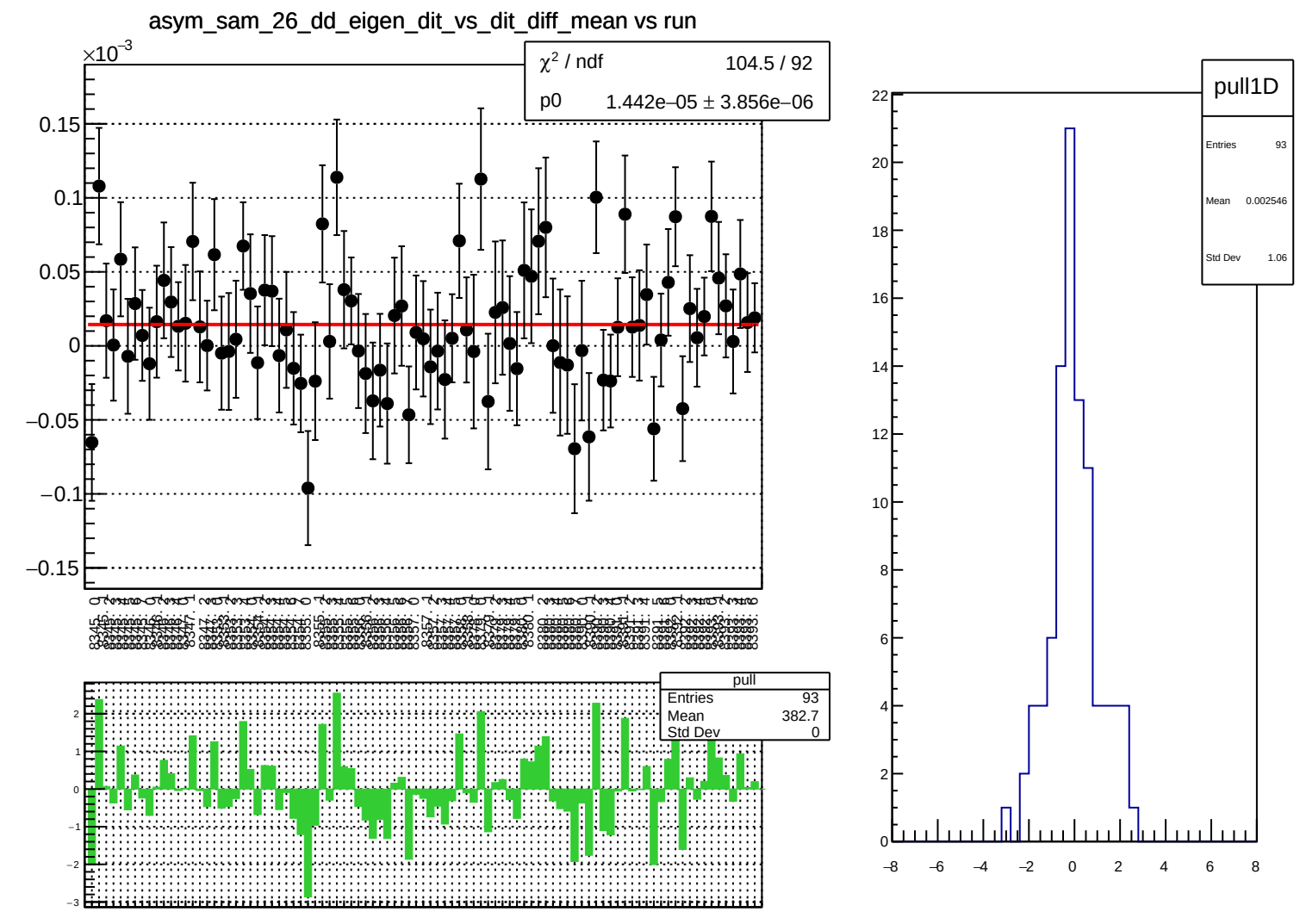

asym_sam_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 90.9 / 92
p0 0.06528 ± 0.09552
pull
Entries 93
Mean 51.5
Std Dev 0

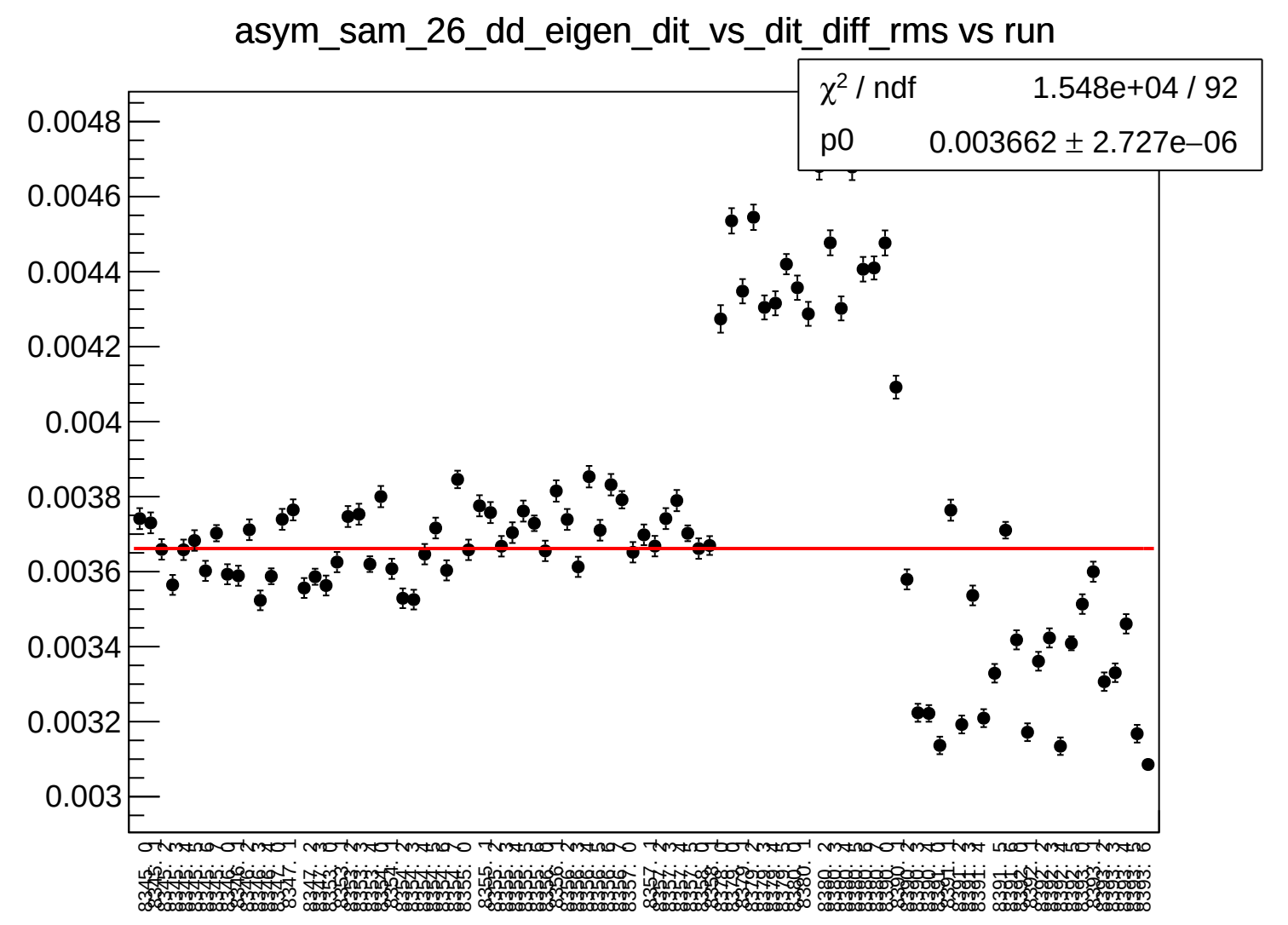

pull1D
Entries 93
Mean 0.01145
Std Dev 0.9886

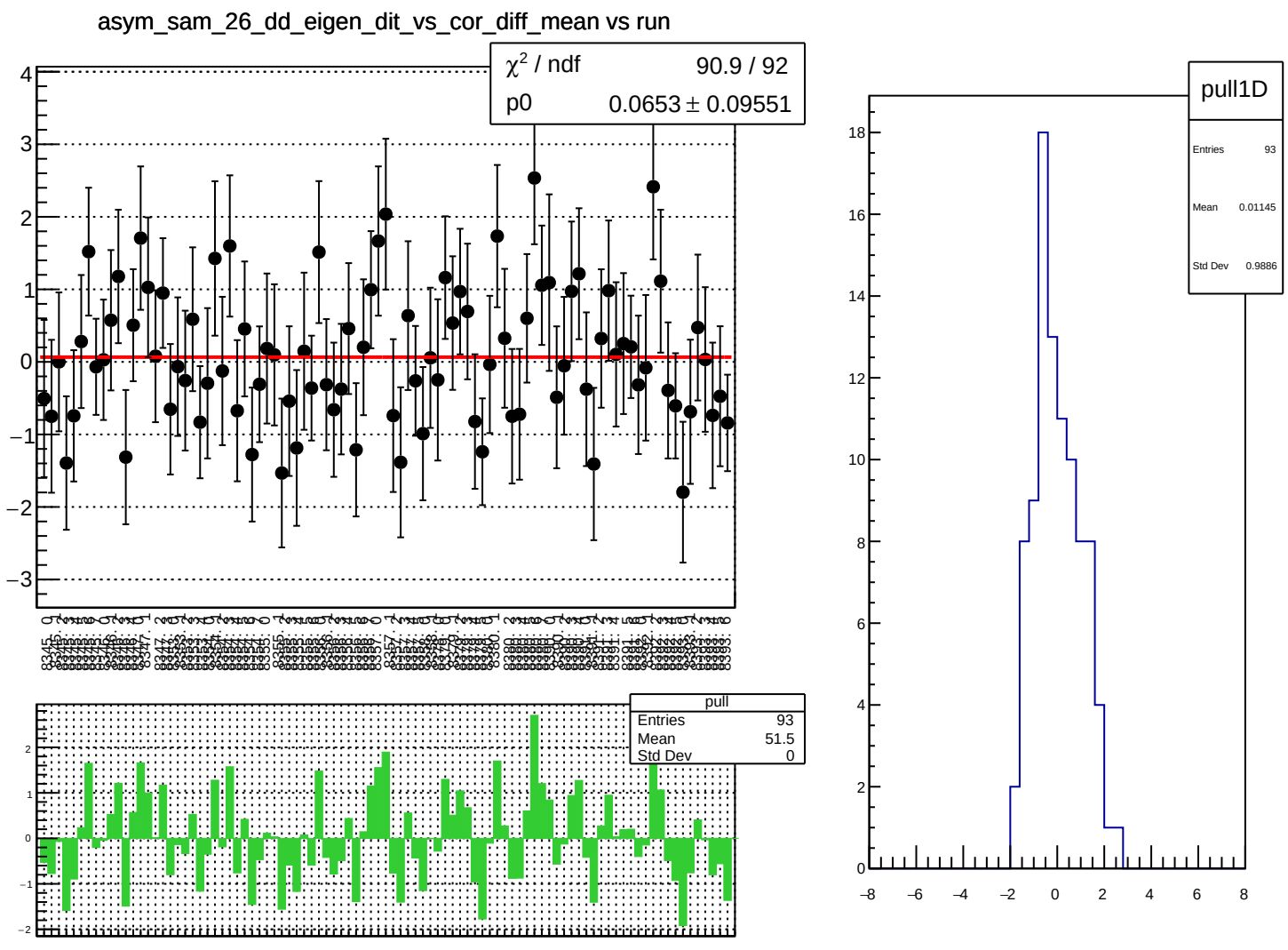

asym_sam_26_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 6970 / 92
p0 90.91 ± 0.06754
120
115
110
105
100
95
90
85
80
75

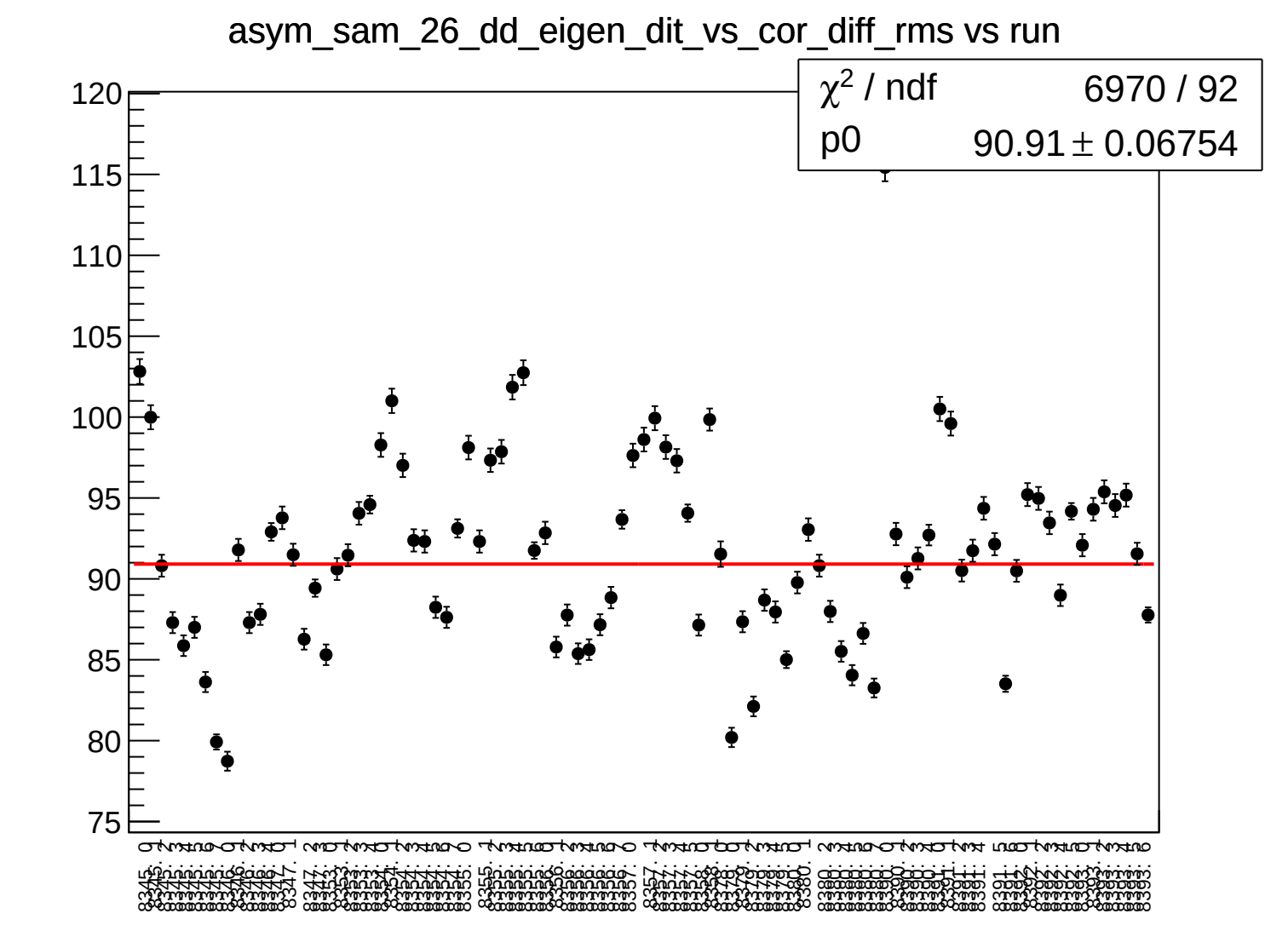

asym_sam_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.9 / 92
p0 0.06528 ± 0.09552
pull
Entries 93
Mean 51.5
Std Dev 0
pull1D
Entries 93
Mean 0.01145
Std Dev 0.9886

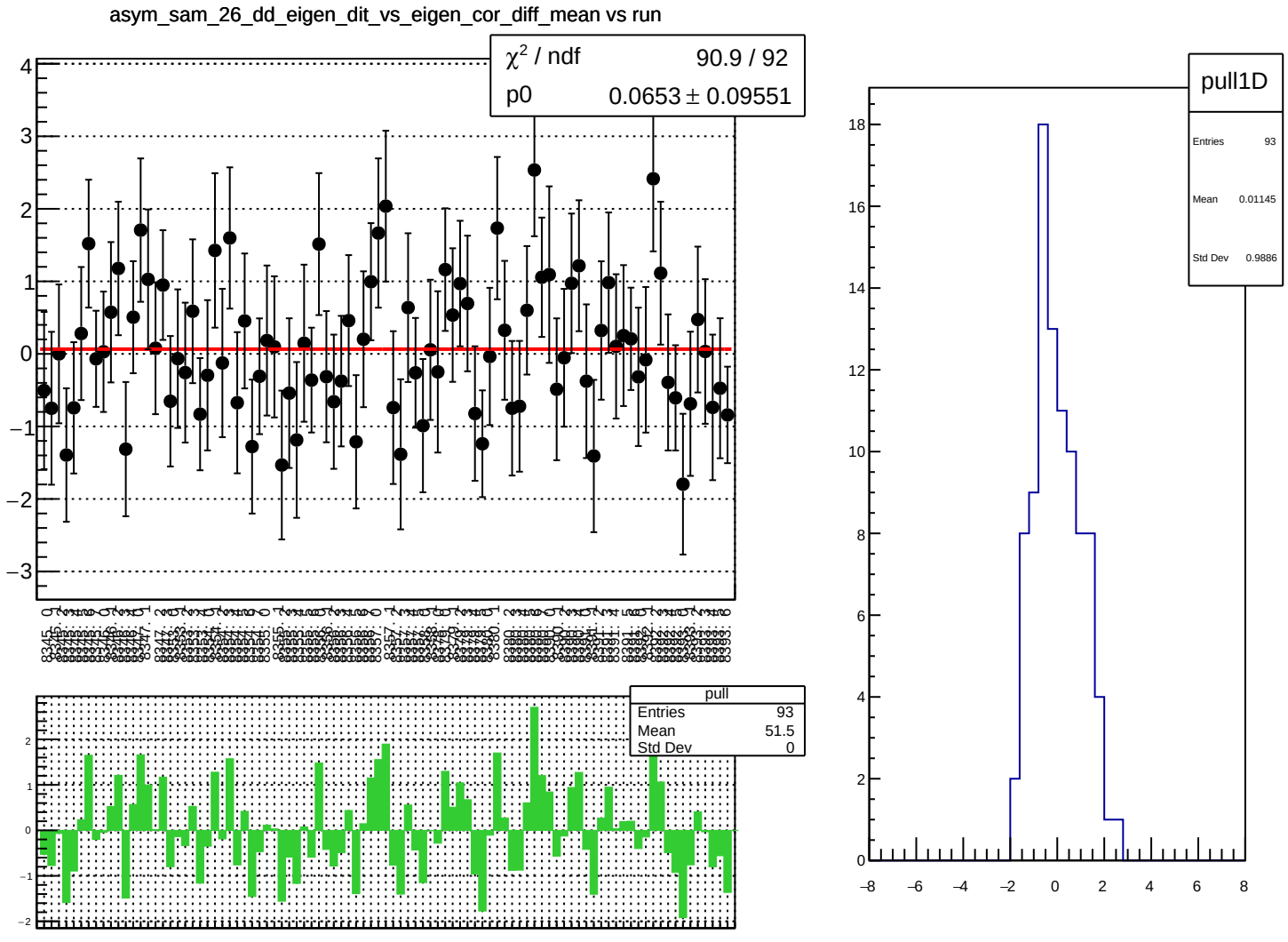

asym_sam_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 6970 / 92
p0 90.91 ± 0.06754
120
115
110
105
100
95
90
85
80
75

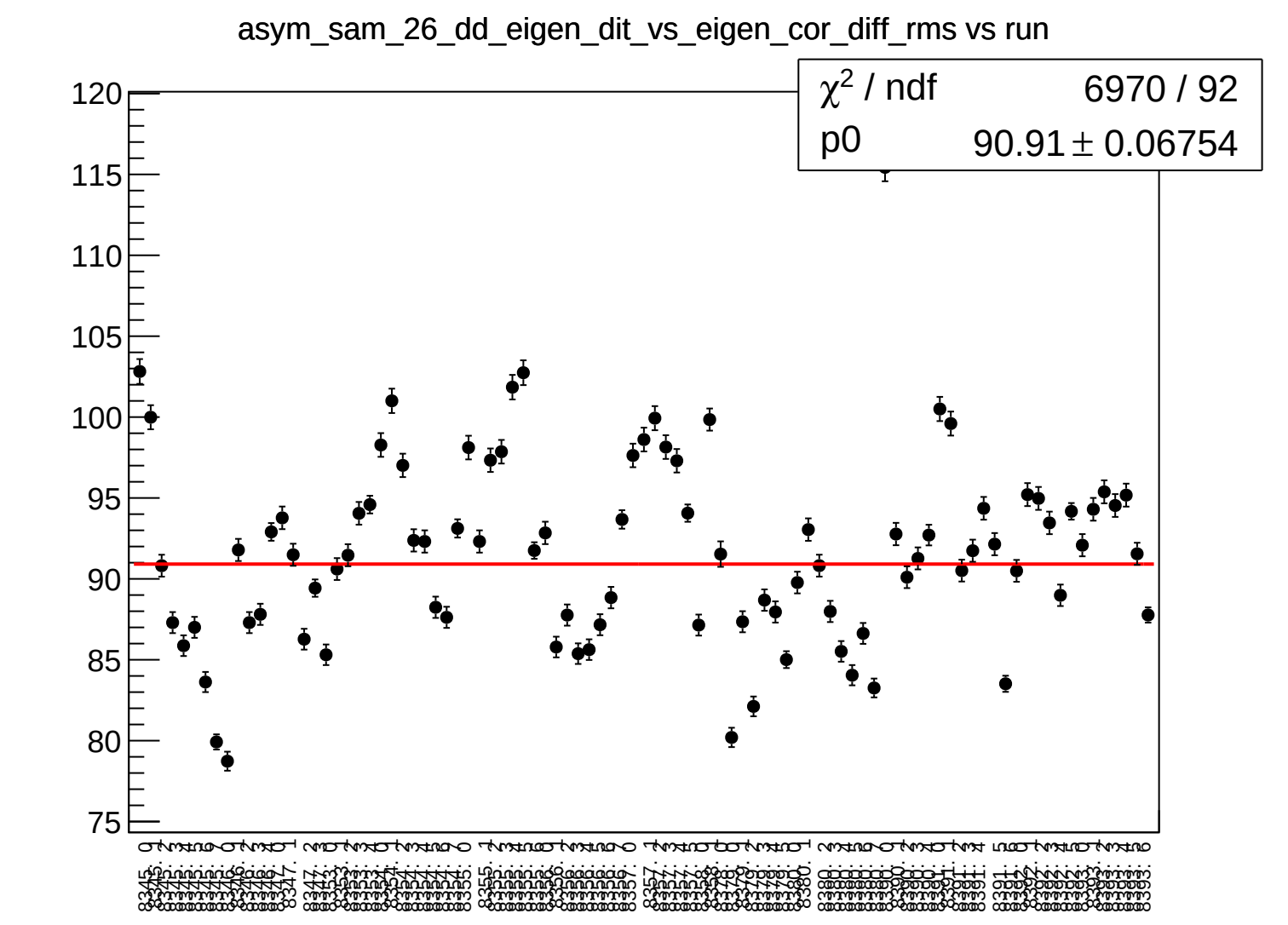

asym_sam_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 104.5 / 92
p0 1.442e−05 ± 3.856e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 93
Mean 382.7
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.002546
Std Dev 1.06
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

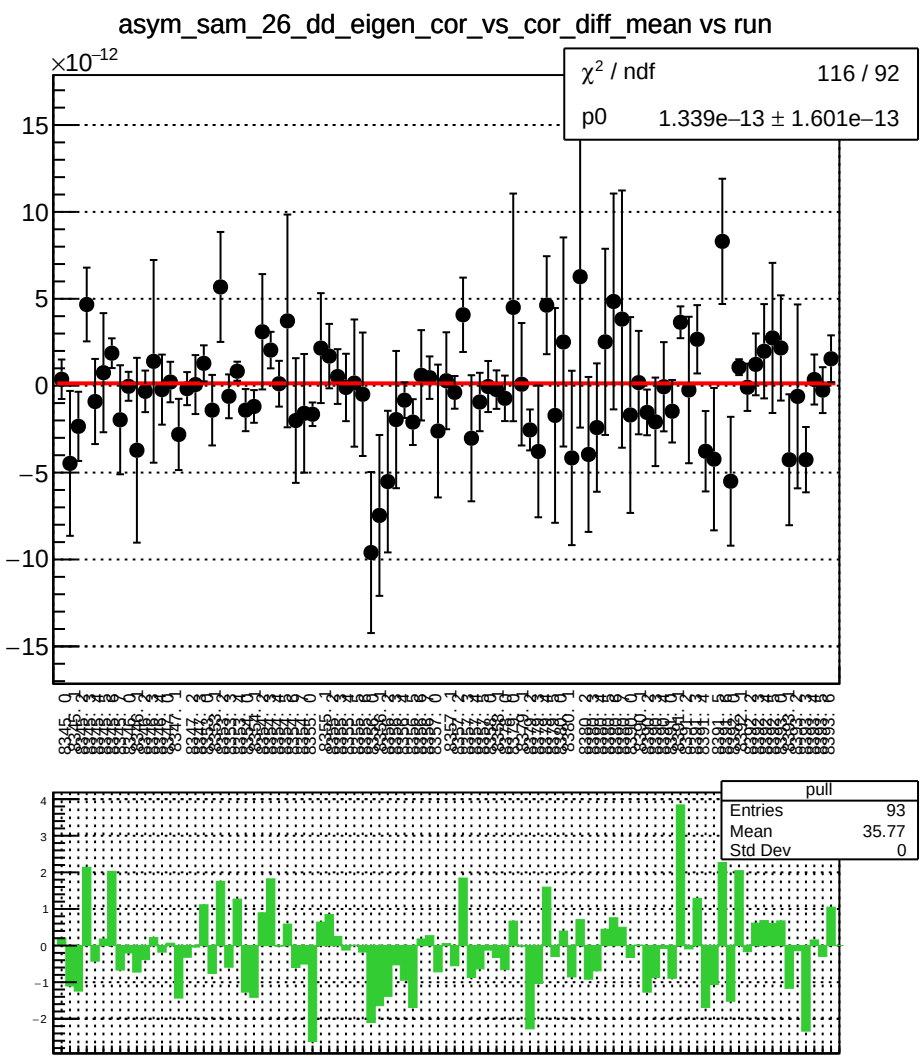

asym_sam_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.548e+04 / 92
p0 0.003662 ± 2.727e−06
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003

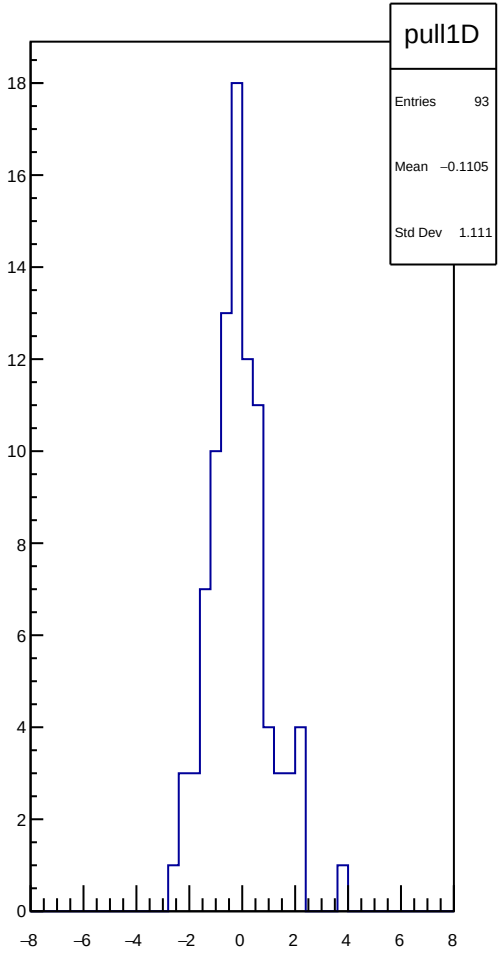

asym_sam_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.9 / 92
p0 0.0653 ± 0.09551
pull
Entries 93
Mean 51.5
Std Dev 0
pull1D
Entries 93
Mean 0.01145
Std Dev 0.9886

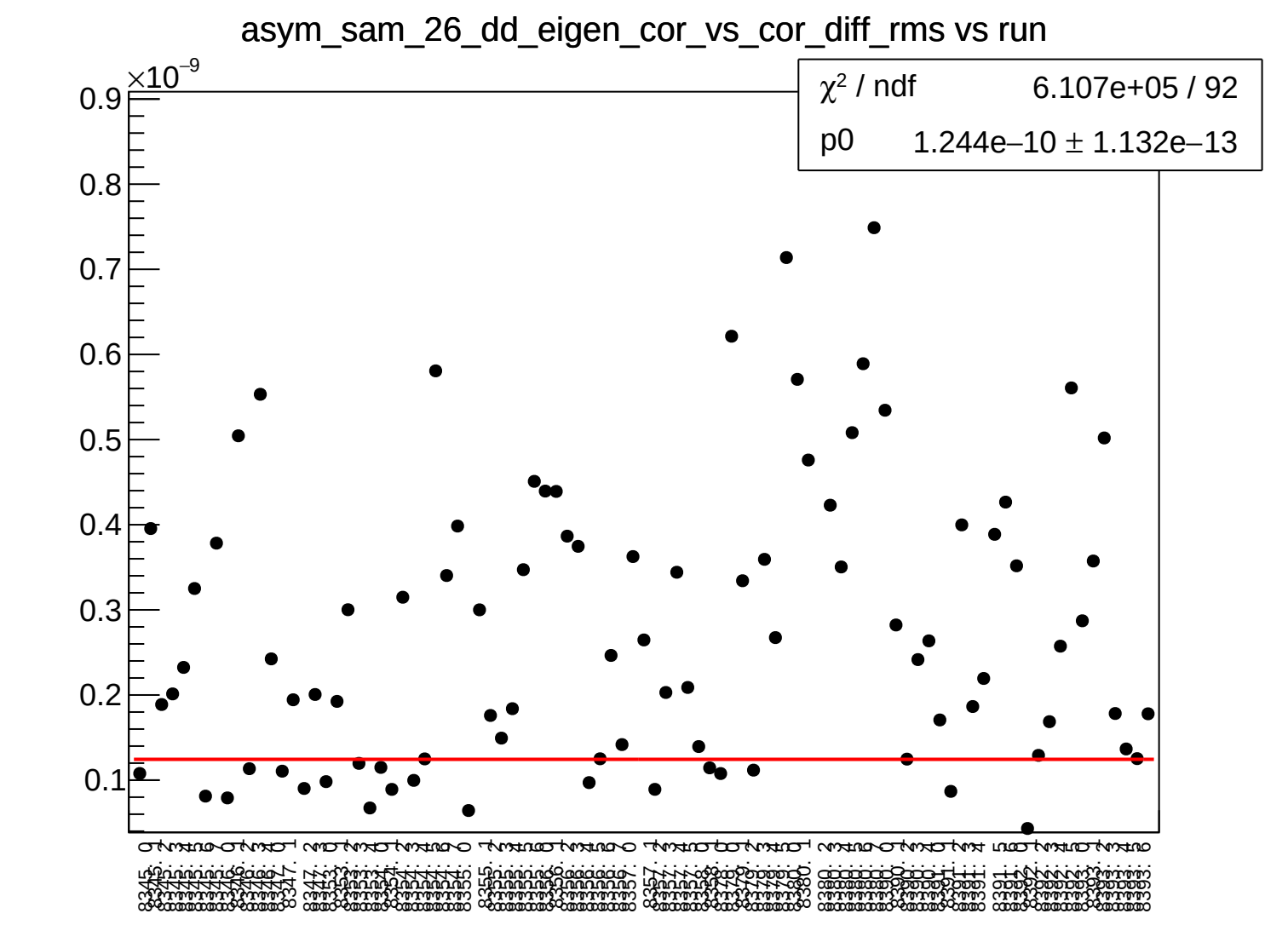

asym_sam_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 6970 / 92
p0 90.91 ± 0.06754
120
115
110
105
100
95
90
85
80
75

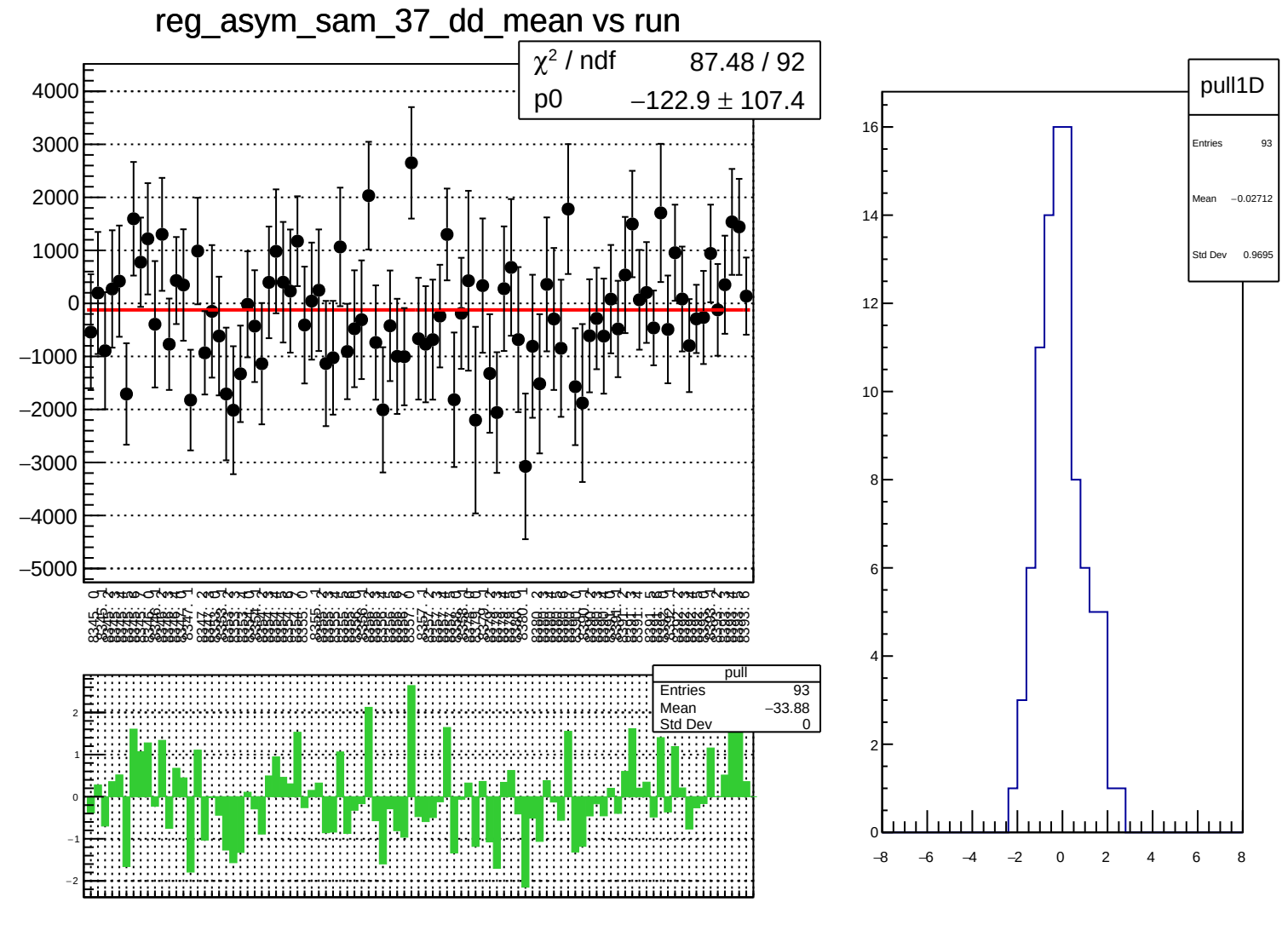

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.9 / 92
p0 0.0653 ± 0.09551
pull
Entries 93
Mean 51.5
Std Dev 0
pull1D
Entries 93
Mean 0.01145
Std Dev 0.9886

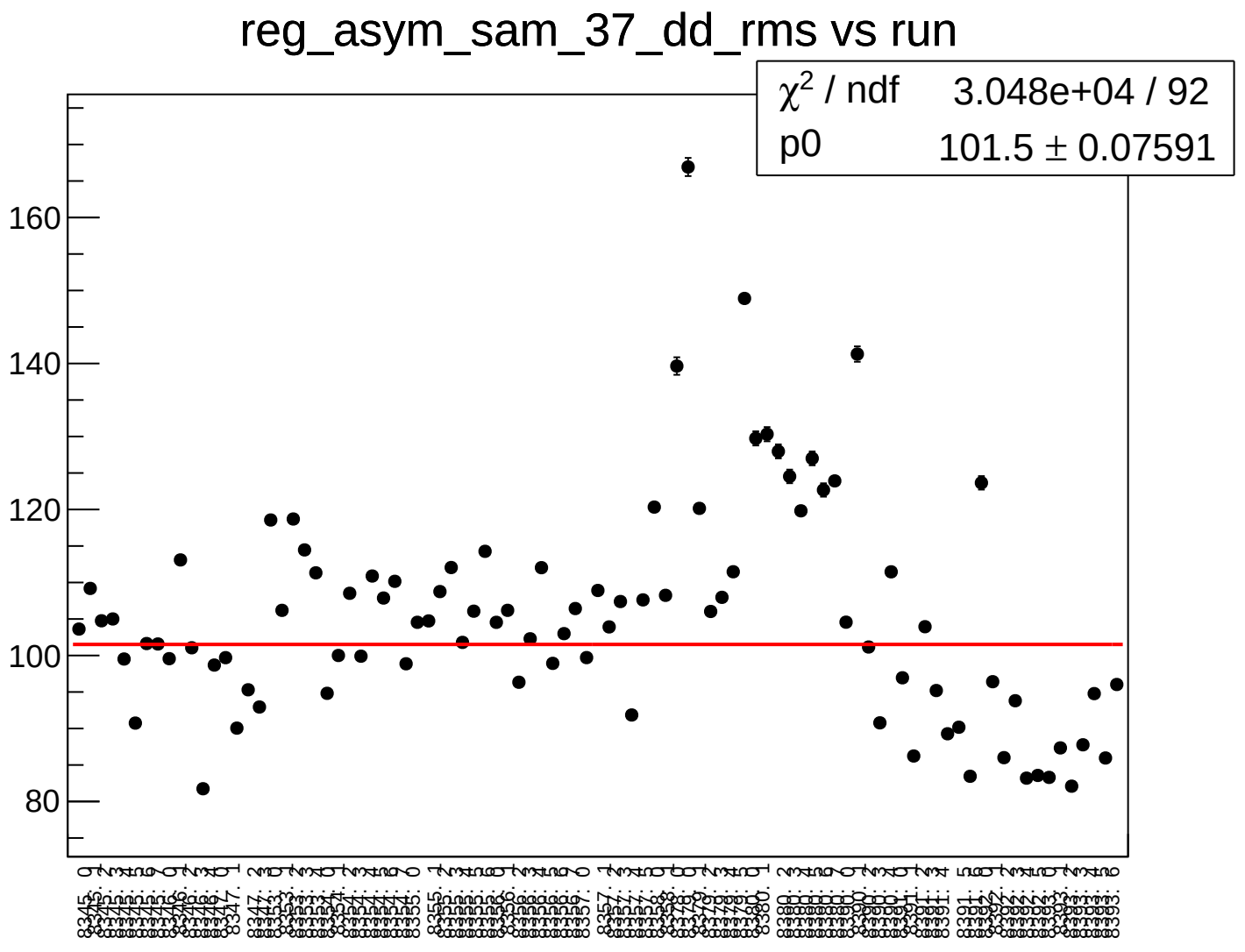

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 6970 / 92
p0 90.91 ± 0.06754
120
115
110
105
100
95
90
85
80
75

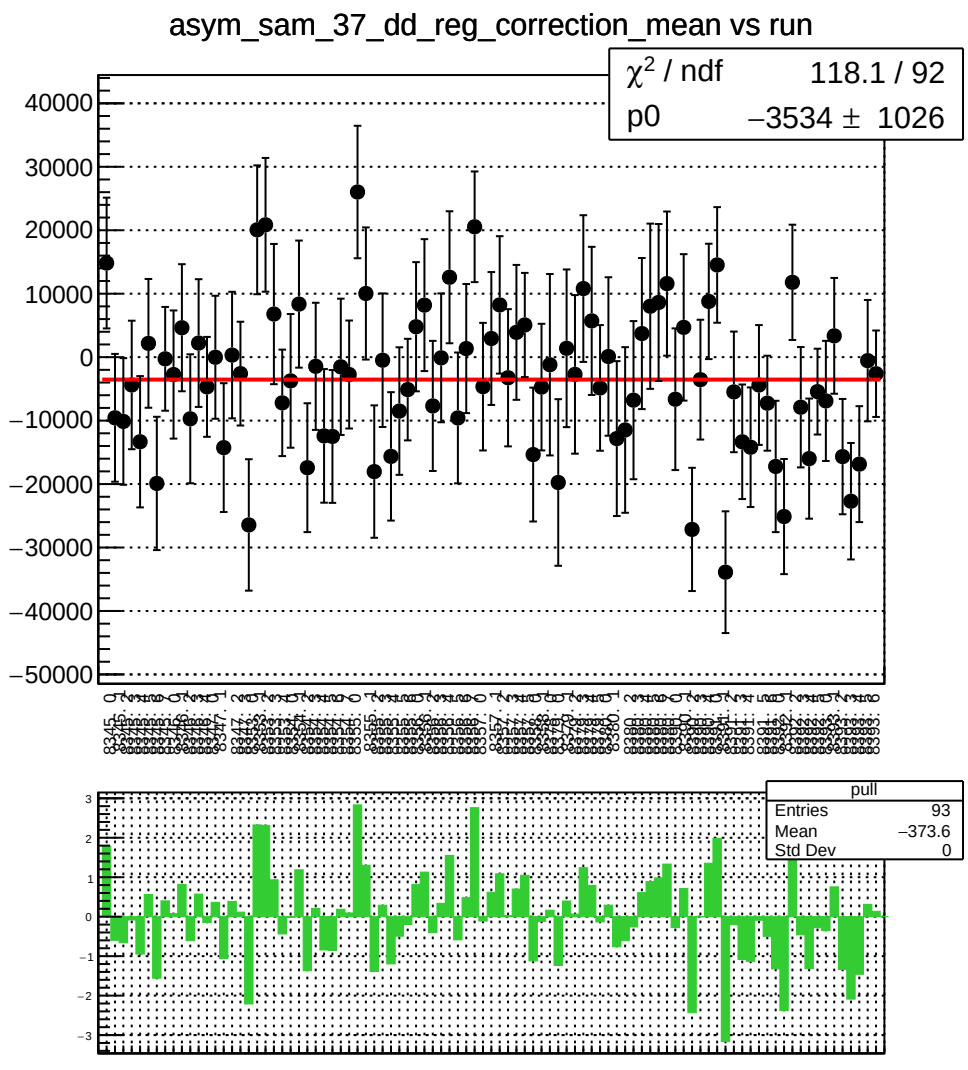

asym_sam_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 116 / 92
p0 1.339e−13 ± 1.601e−13
pull
Entries 93
Mean 35.77
Std Dev 0

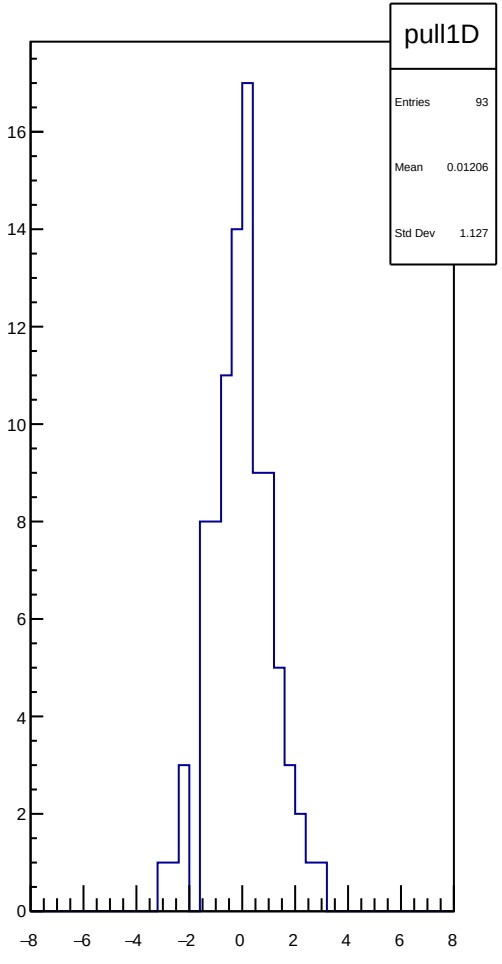

pull1D
Entries 93
Mean −0.1105
Std Dev 1.111

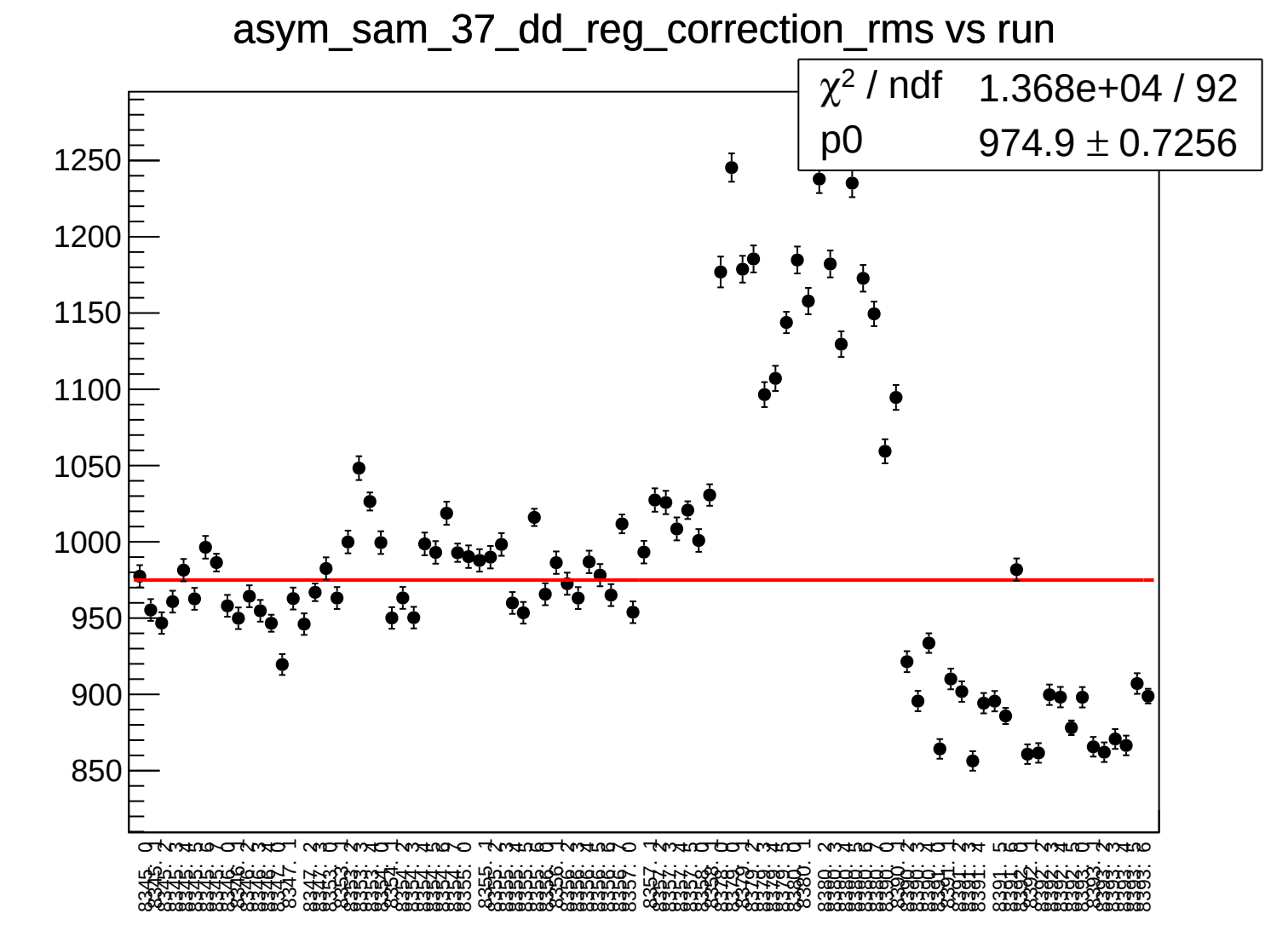

asym_sam_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.107e+05 / 92
p0 1.244e−10 ± 1.132e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

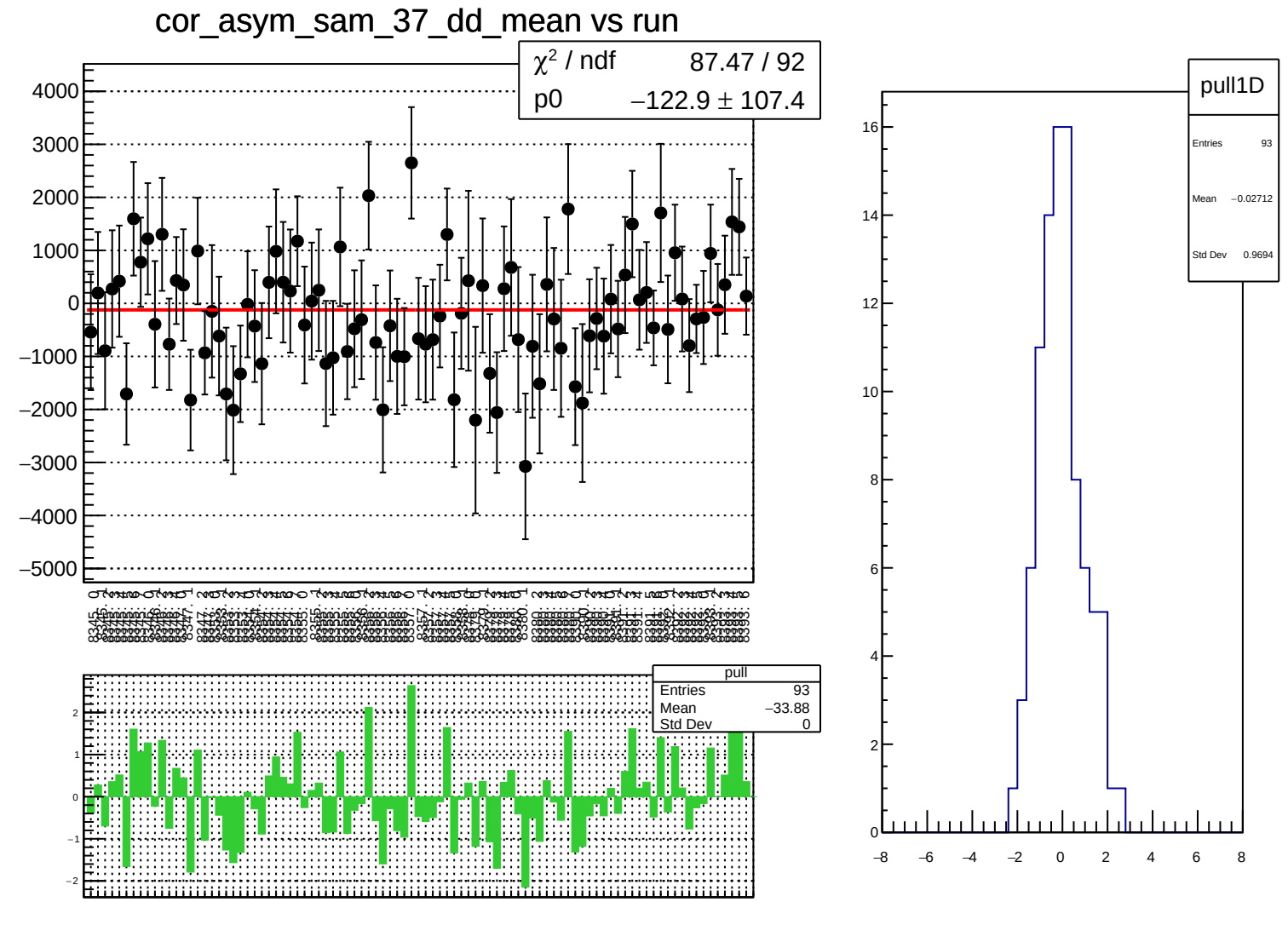

reg_asym_sam_37_dd_mean vs run
χ² / ndf 87.48 / 92
p0 −122.9 ± 107.4
pull
Entries 93
Mean −33.88
Std Dev 0
pull1D
Entries 93
Mean −0.02712
Std Dev 0.9695

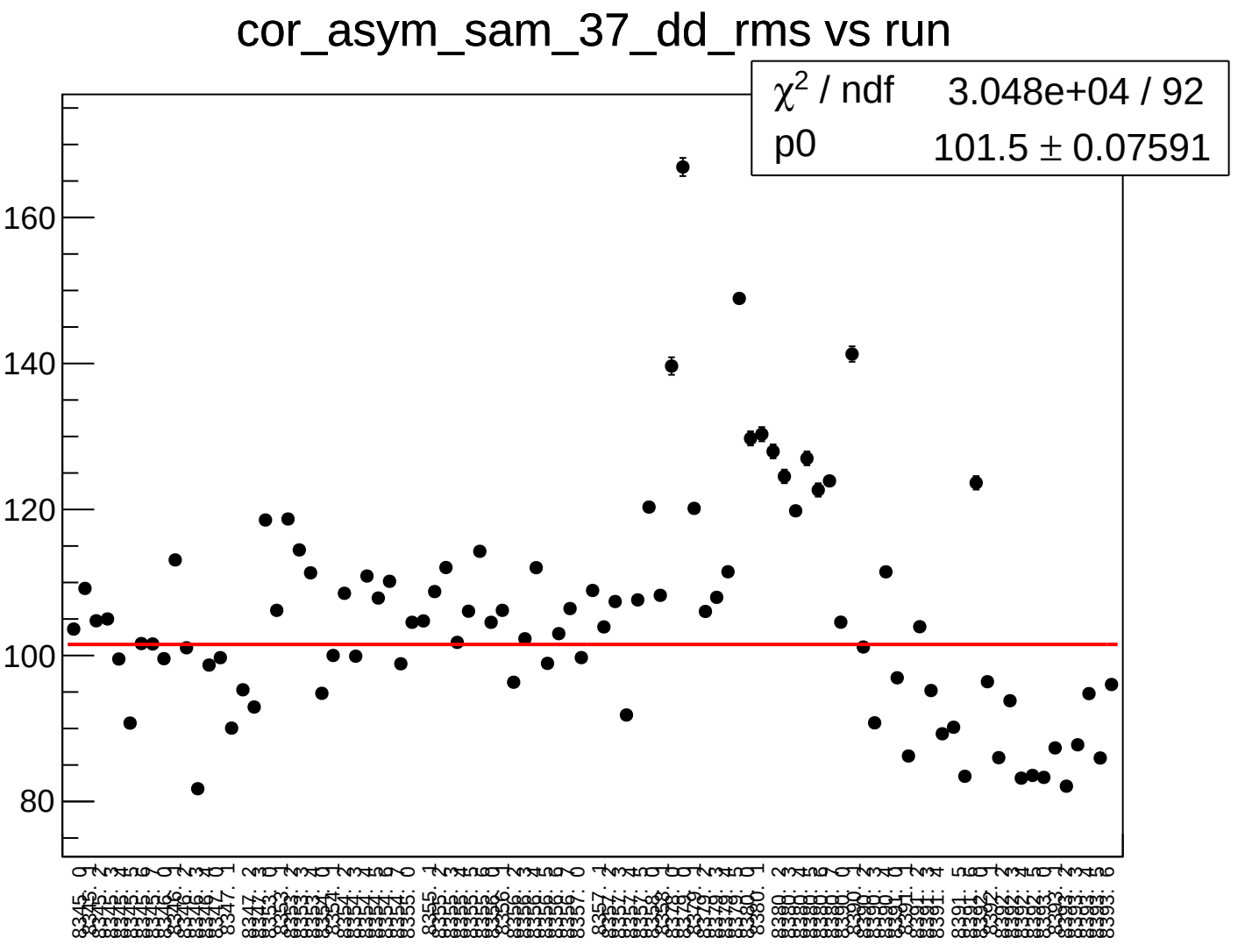

reg_asym_sam_37_dd_rms vs run
χ² / ndf 3.048e+04 / 92
p0 101.5 ± 0.07591
160
140
120
100
80

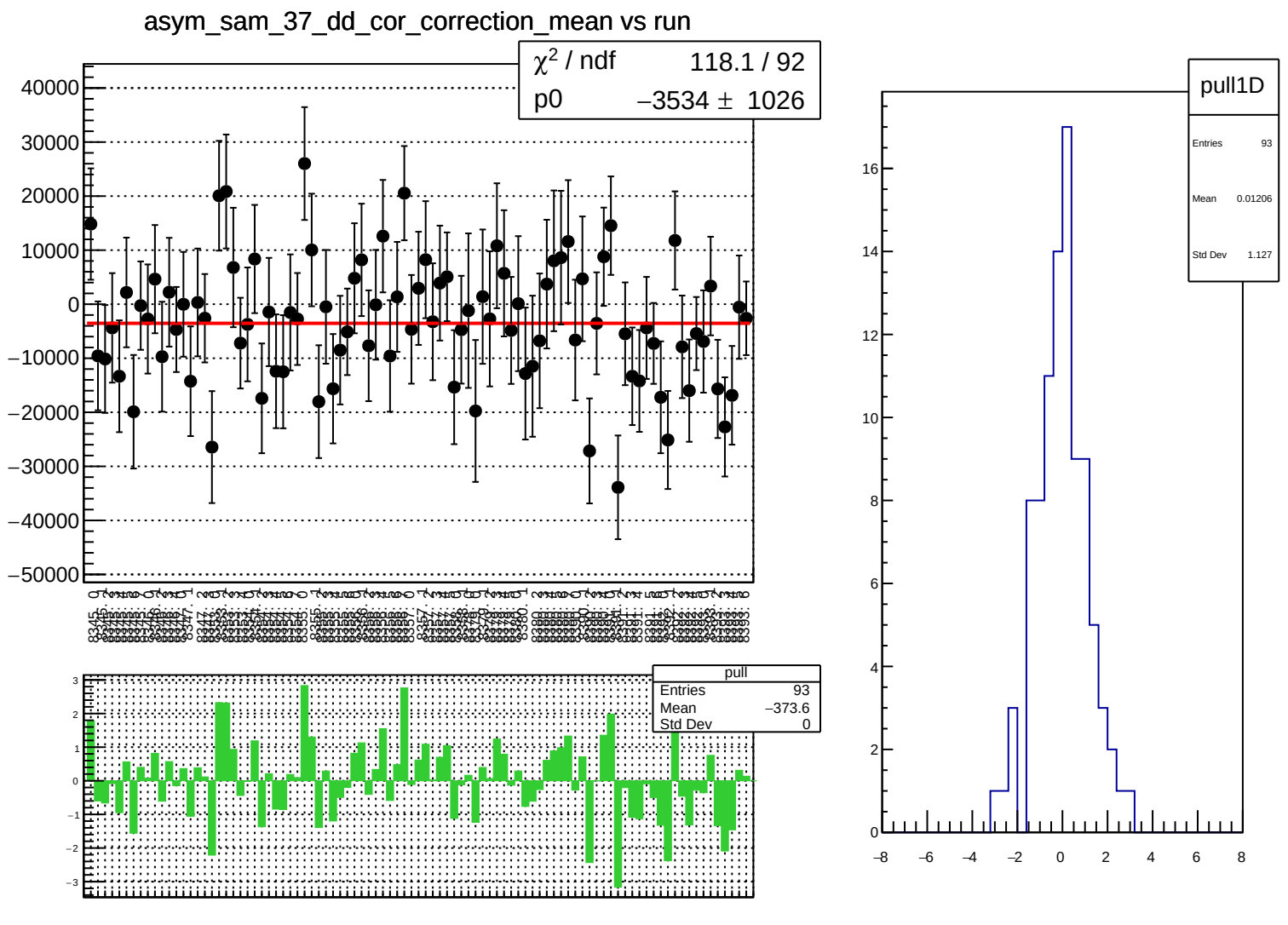

asym_sam_37_dd_reg_correction_mean vs run
χ² / ndf 118.1 / 92
p0 −3534 ± 1026
pull
Entries 93
Mean −373.6
Std Dev 0

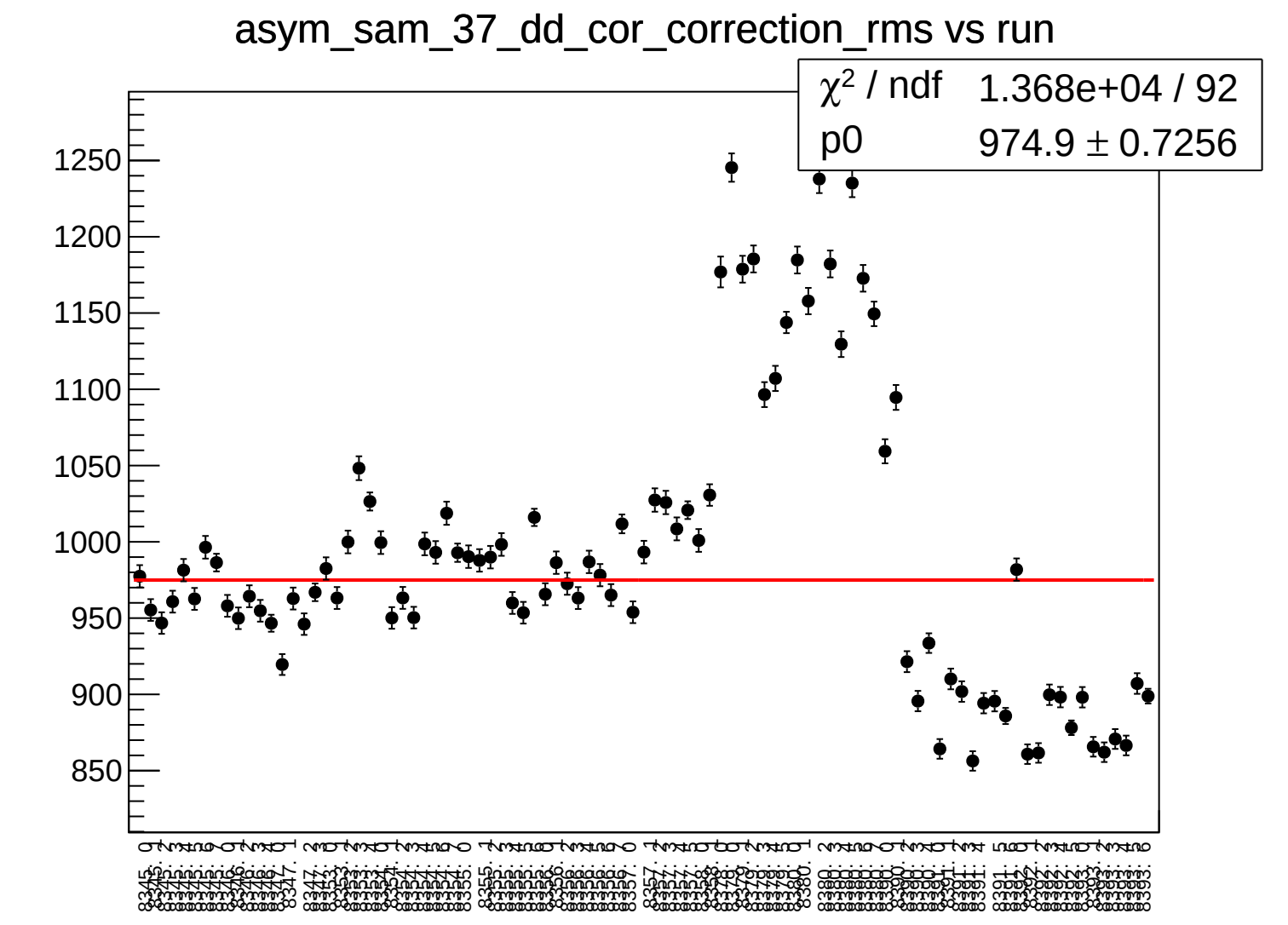

pull1D
Entries 93
Mean 0.01206
Std Dev 1.127

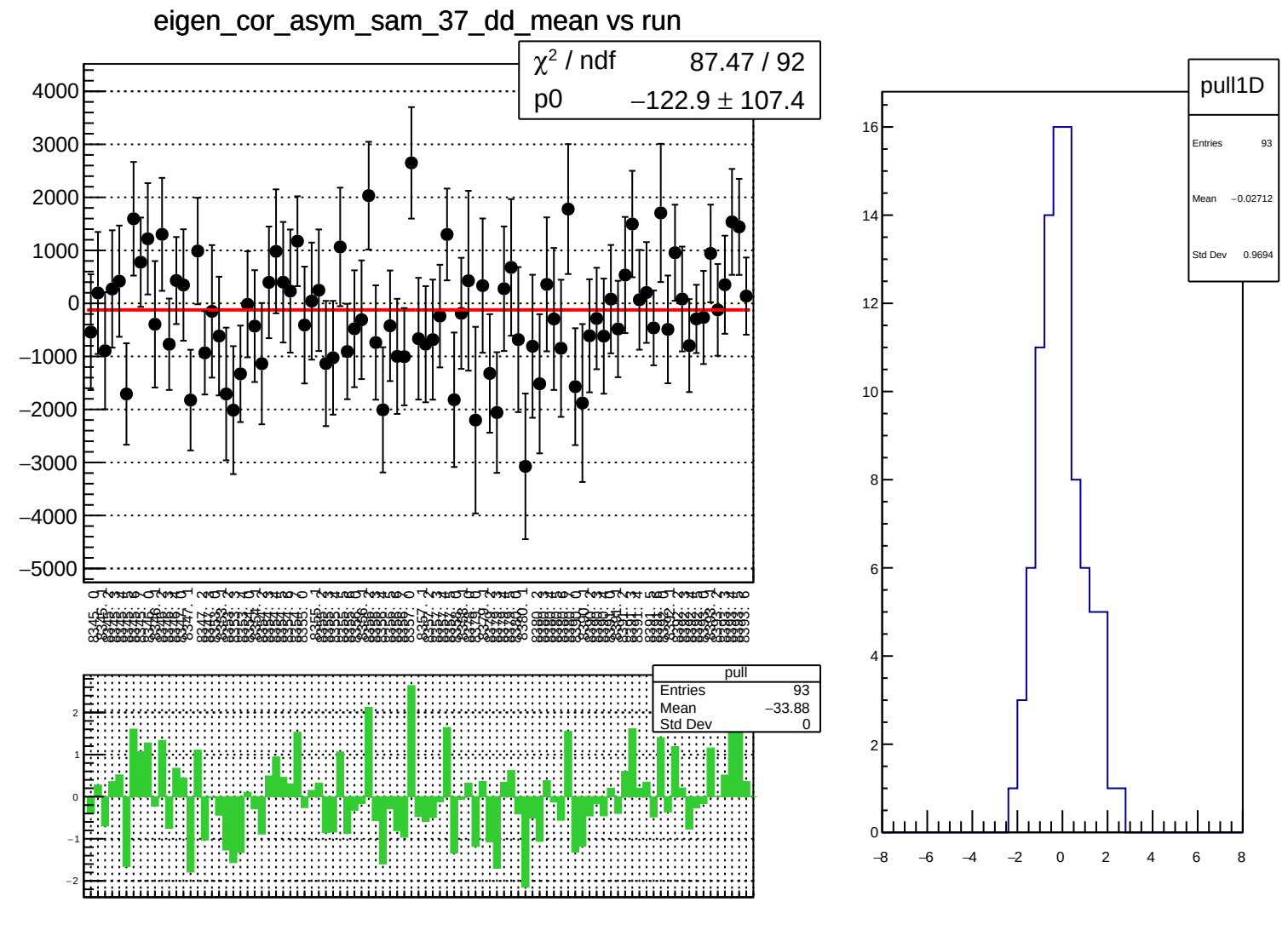

asym_sam_37_dd_reg_correction_rms vs run
χ² / ndf 1.368e+04 / 92
p0 974.9 ± 0.7256
1250
1200
1150
1100
1050
1000
950
900
850

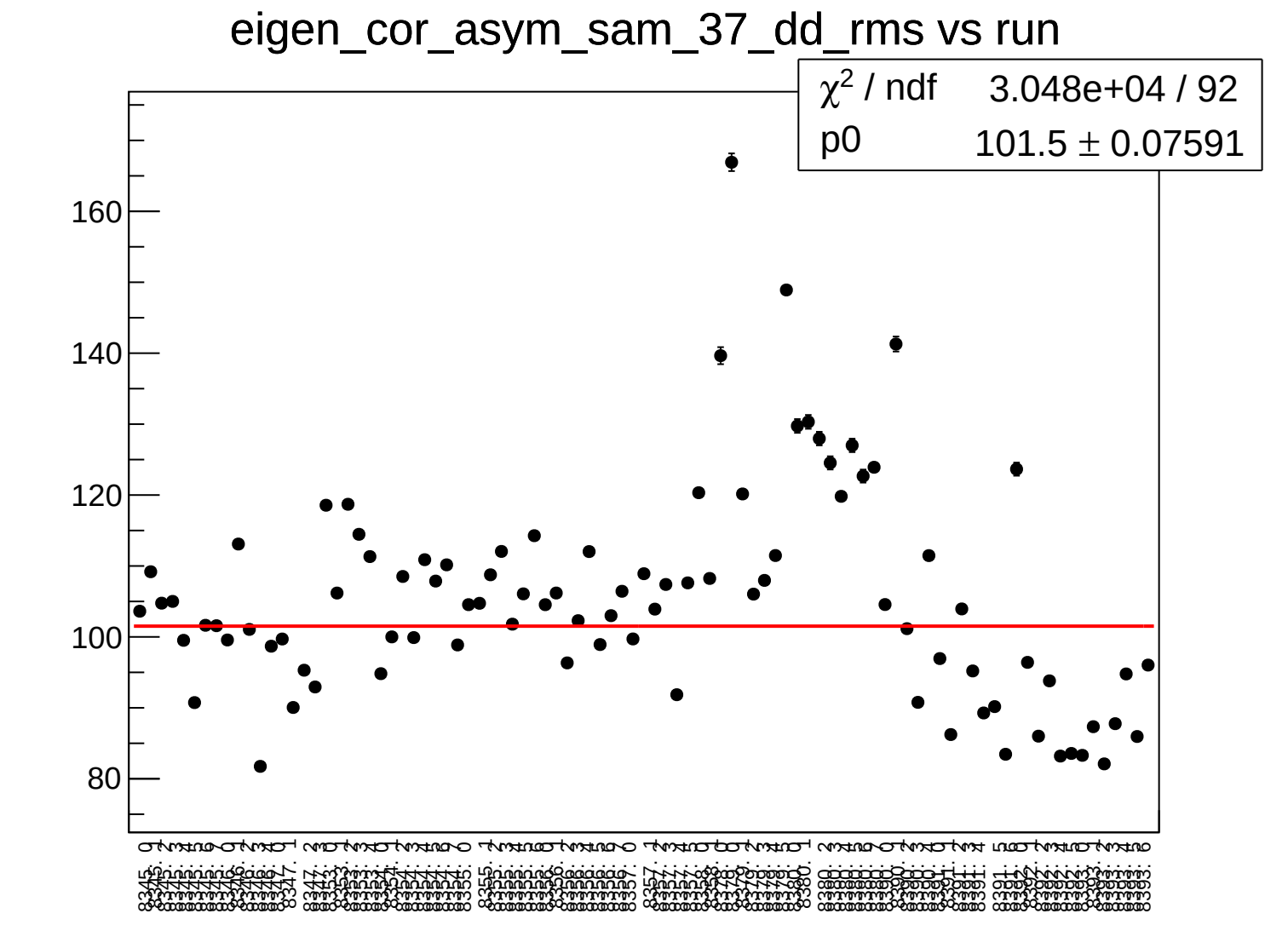

cor_asym_sam_37_dd_mean vs run
χ² / ndf 87.47 / 92
p0 −122.9 ± 107.4
pull
Entries 93
Mean −33.88
Std Dev 0
pull1D
Entries 93
Mean −0.02712
Std Dev 0.9694

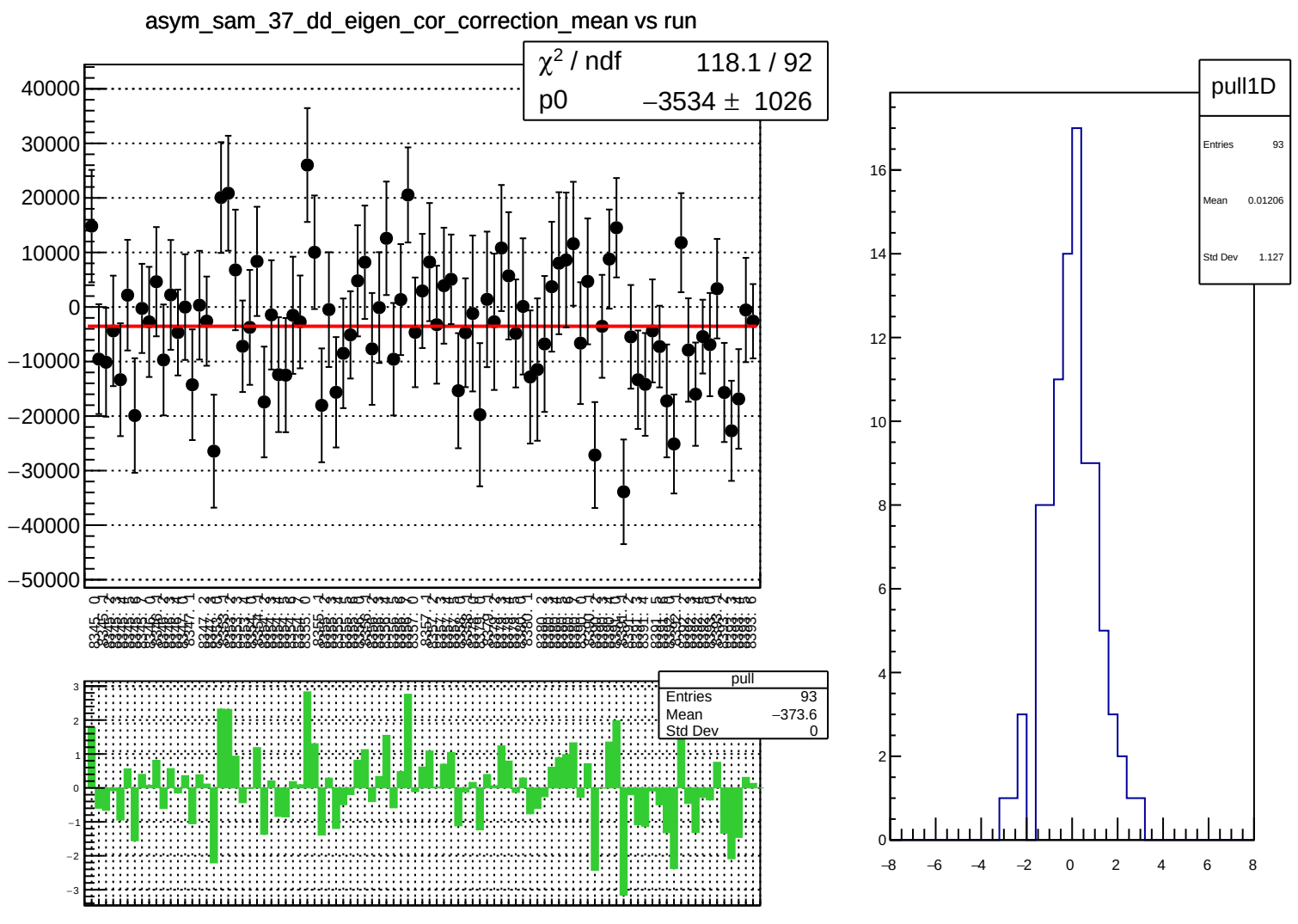

cor_asym_sam_37_dd_rms vs run
χ² / ndf 3.048e+04 / 92
p0 101.5 ± 0.07591
160
140
120
100
80

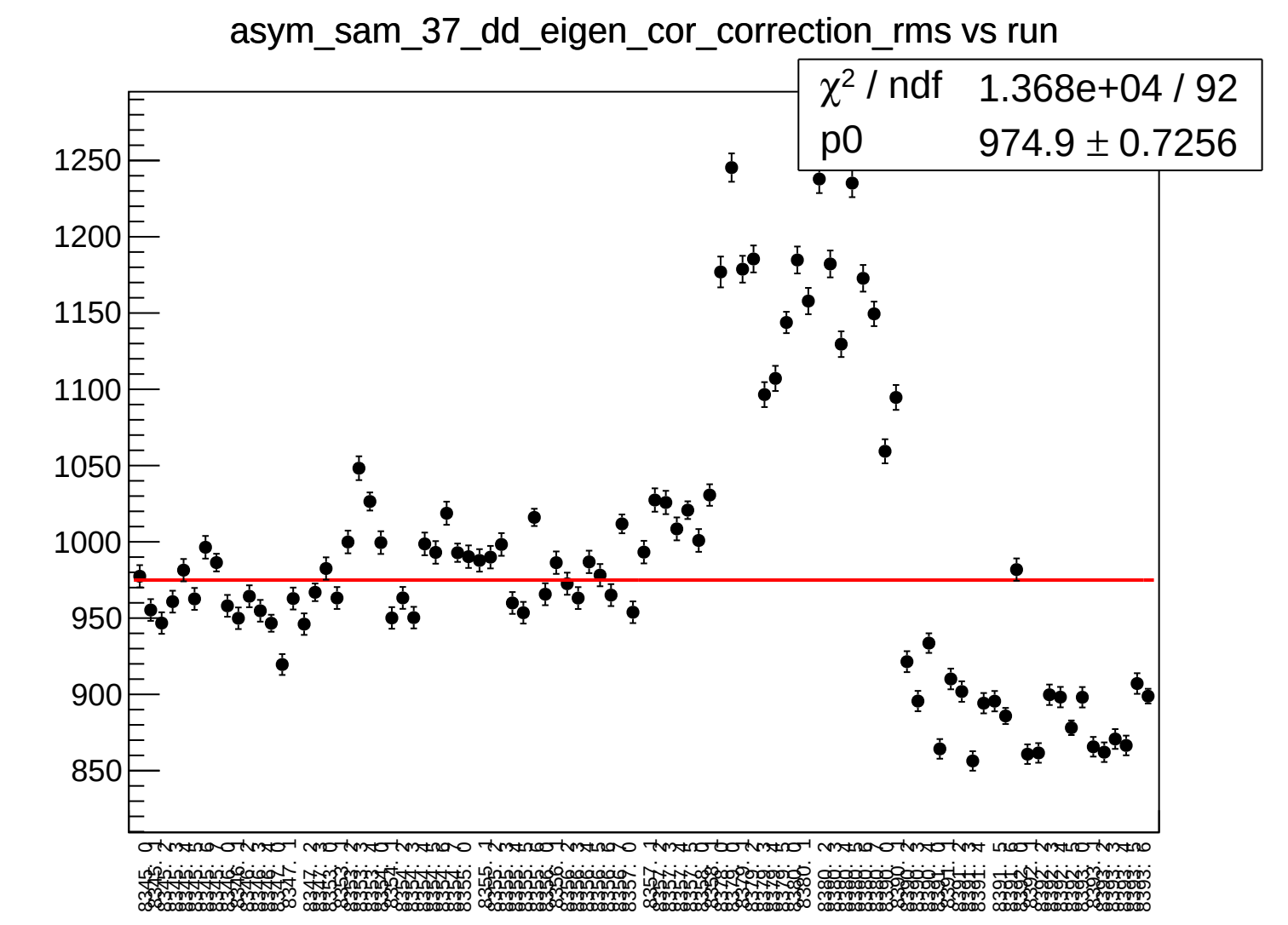

asym_sam_37_dd_cor_correction_mean vs run
χ² / ndf 118.1 / 92
p0 −3534 ± 1026
pull
Entries 93
Mean −373.6
Std Dev 0
pull1D
Entries 93
Mean 0.01206
Std Dev 1.127

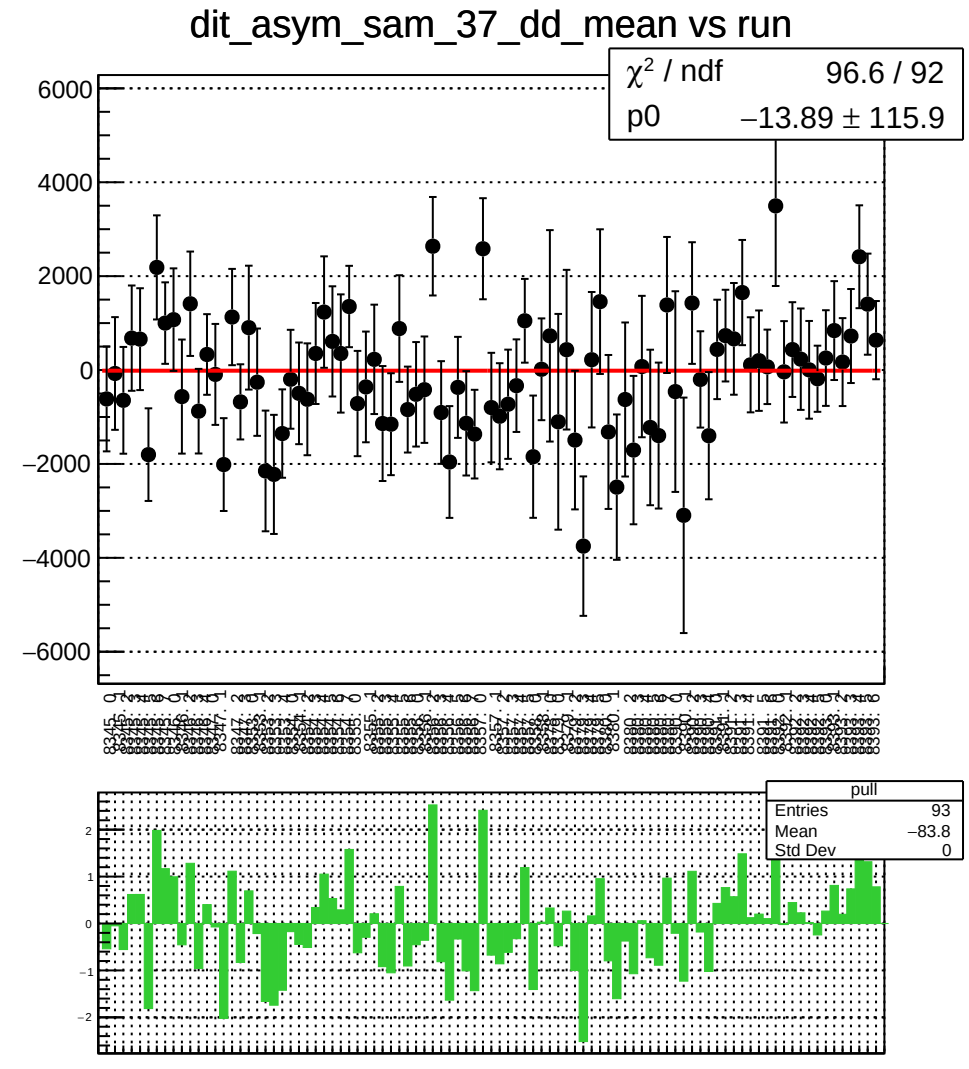

asym_sam_37_dd_cor_correction_rms vs run
χ² / ndf 1.368e+04 / 92
p0 974.9 ± 0.7256
1250
1200
1150
1100
1050
1000
950
900
850

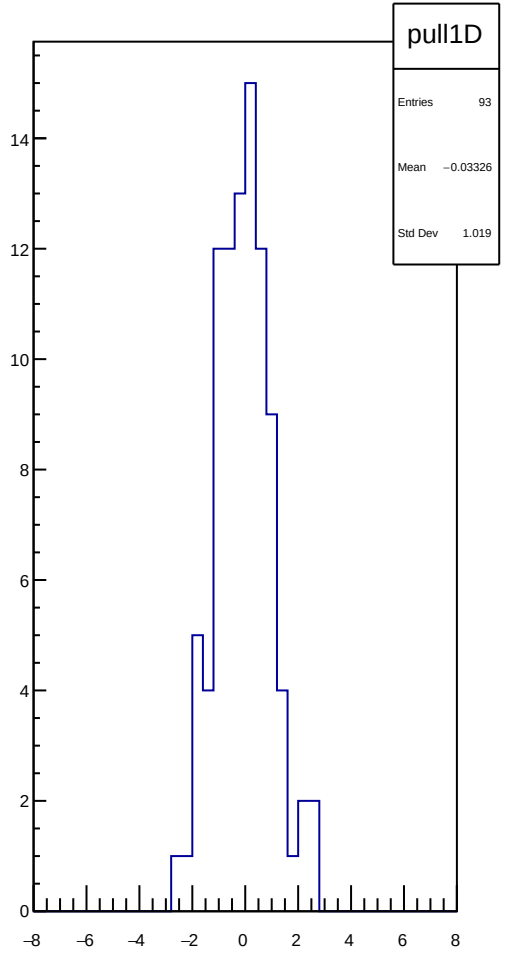

eigen_cor_asym_sam_37_dd_mean vs run
χ² / ndf 87.47 / 92
p0 −122.9 ± 107.4
pull
Entries 93
Mean −33.88
Std Dev 0
pull1D
Entries 93
Mean −0.02712
Std Dev 0.9694

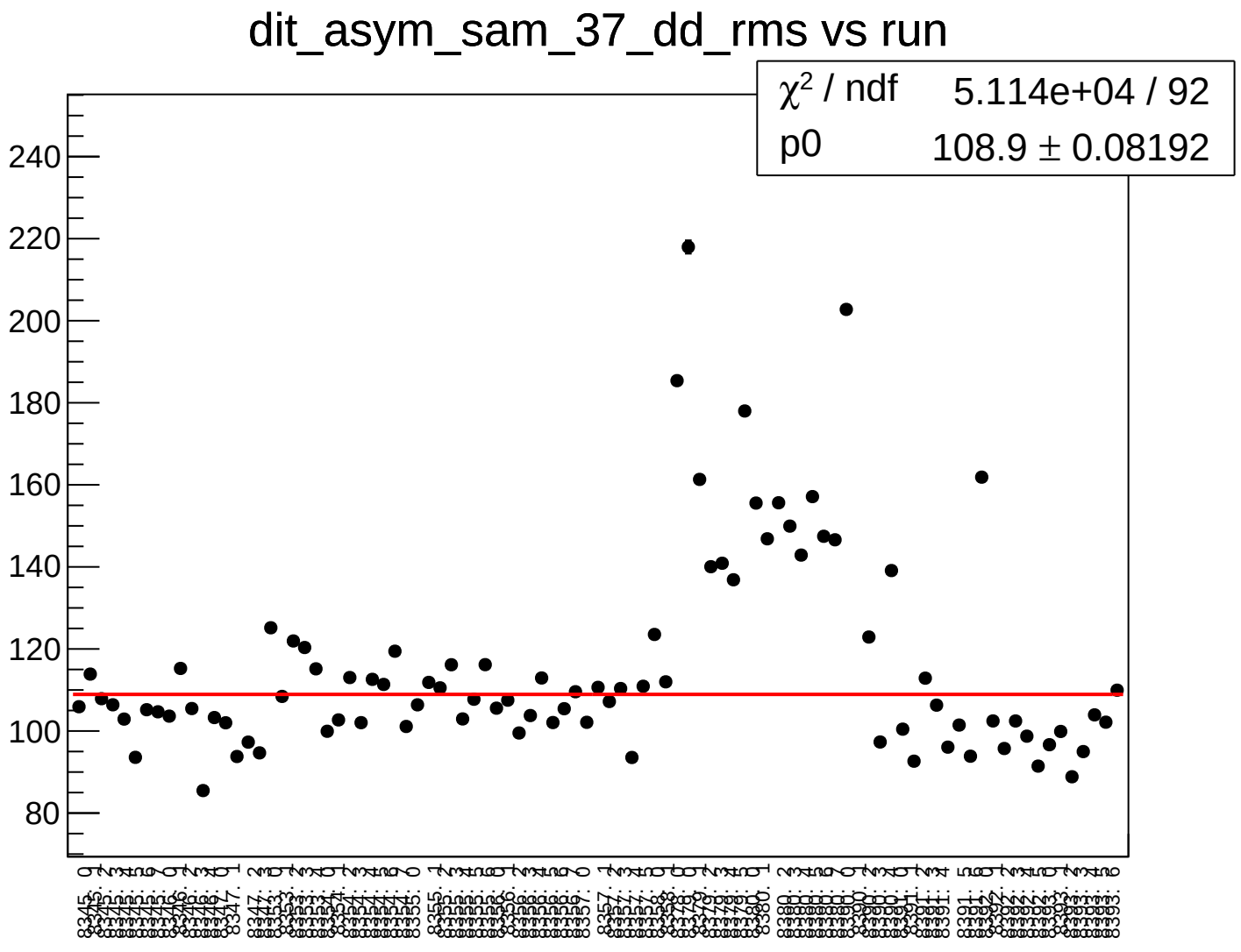

eigen_cor_asym_sam_37_dd_rms vs run
χ^2 / ndf 3.048e+04 / 92
p0 101.5 ± 0.07591
160
140
120
100
80

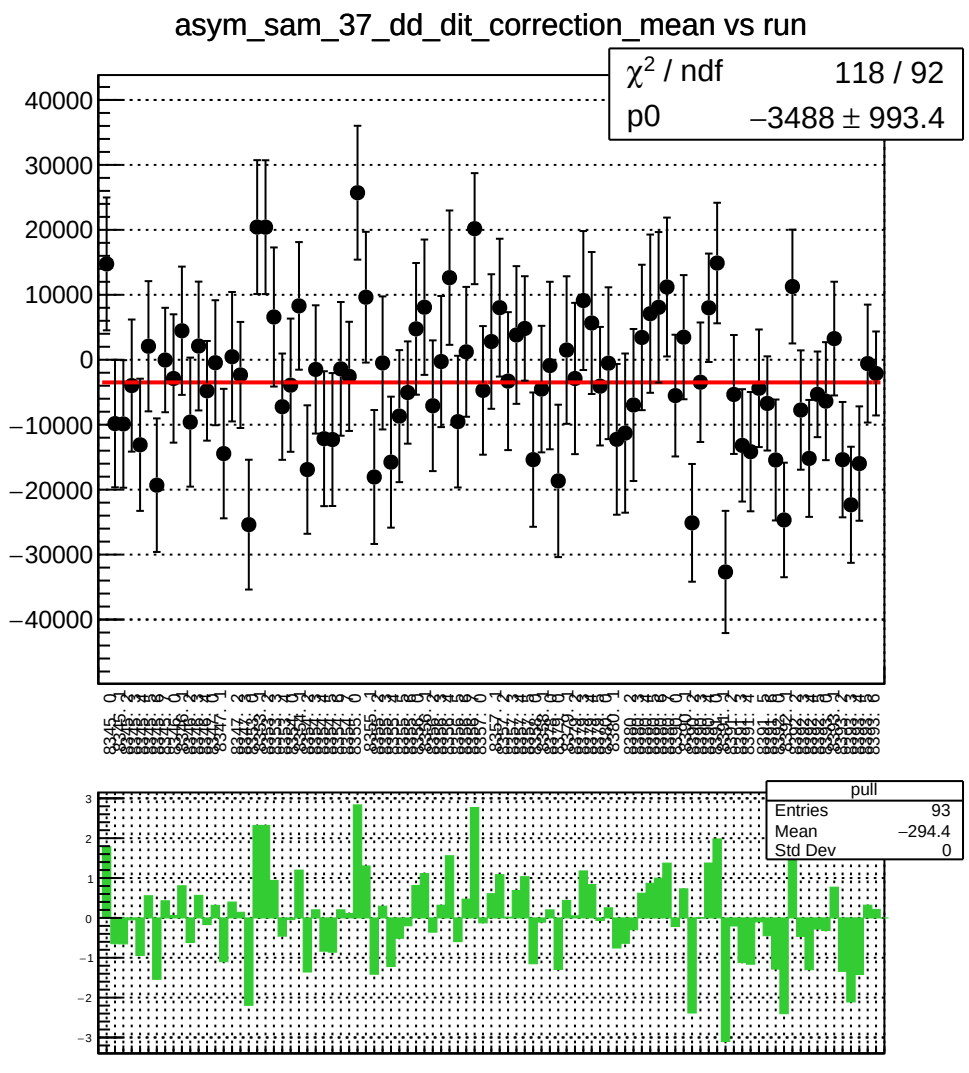

asym_sam_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 118.1 / 92
p0 −3534 ± 1026
pull
Entries 93
Mean −373.6
Std Dev 0
pull1D
Entries 93
Mean 0.01206
Std Dev 1.127

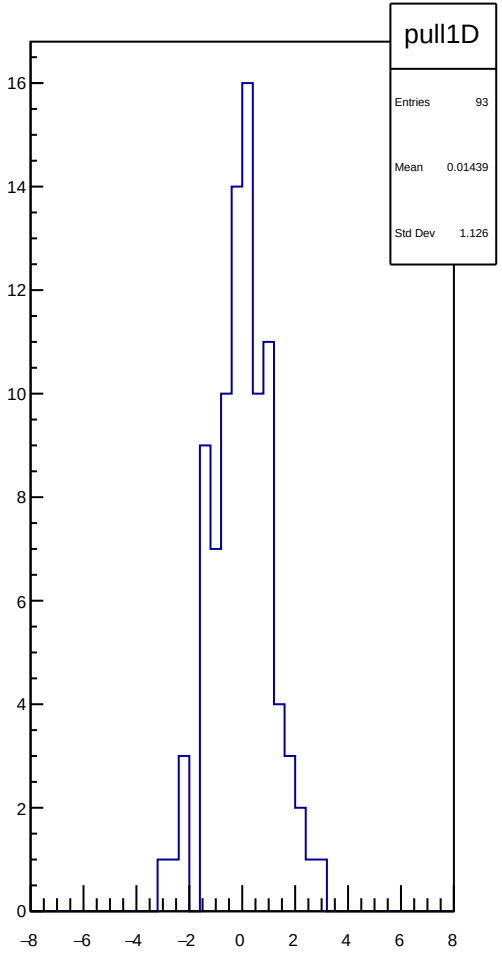

asym_sam_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.368e+04 / 92
p0 974.9 ± 0.7256
1250
1200
1150
1100
1050
1000
950
900
850

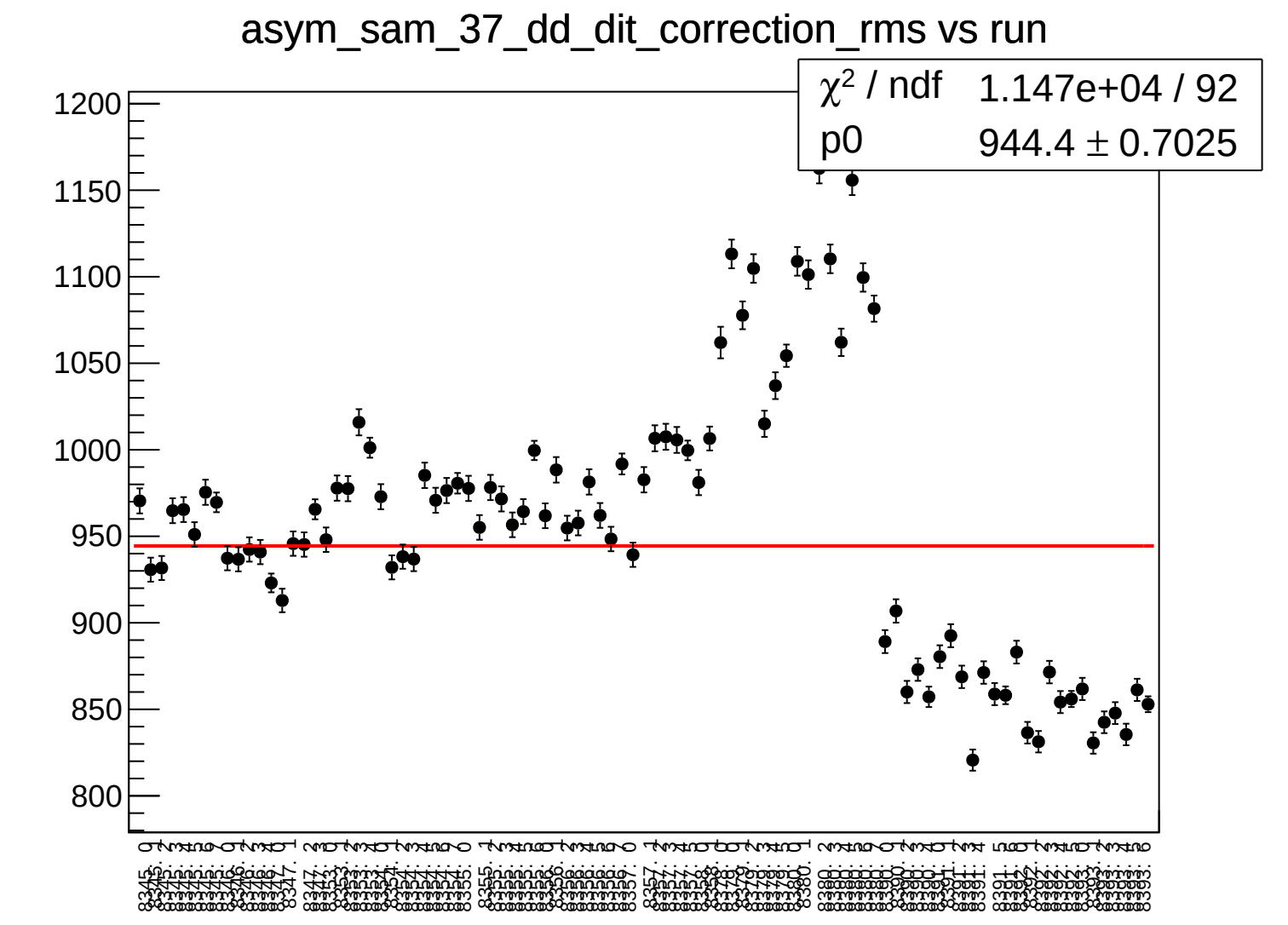

dit_asym_sam_37_dd_mean vs run
χ² / ndf 96.6 / 92
p0 −13.89 ± 115.9
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean −83.8
Std Dev 0
2
1
0
−1
−2

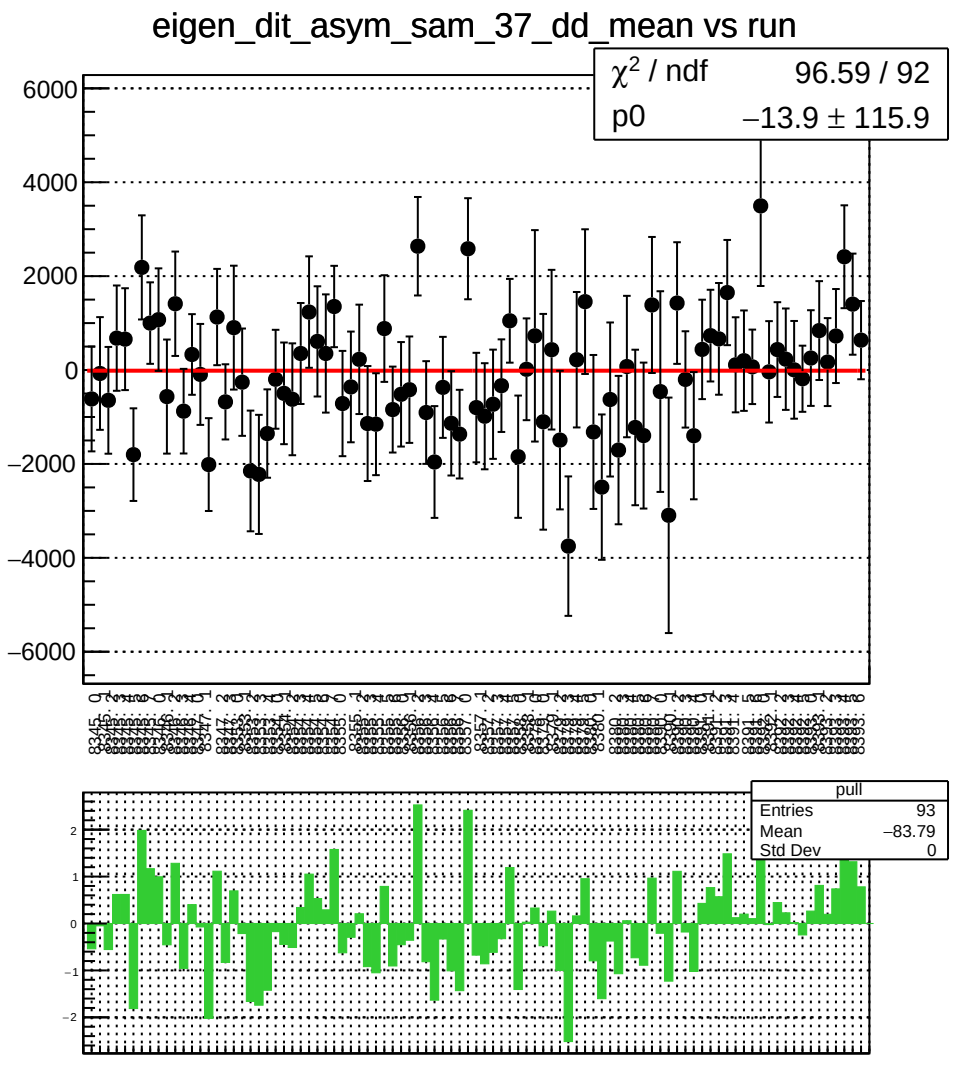

pull1D
Entries 93
Mean −0.03326
Std Dev 1.019
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

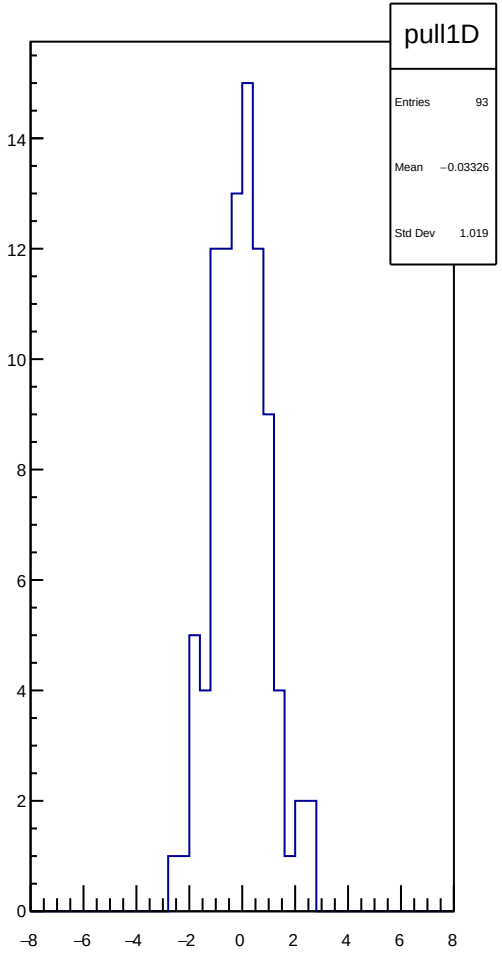

dit_asym_sam_37_dd_rms vs run
χ² / ndf 5.114e+04 / 92
p0 108.9 ± 0.08192
240
220
200
180
160
140
120
100
80

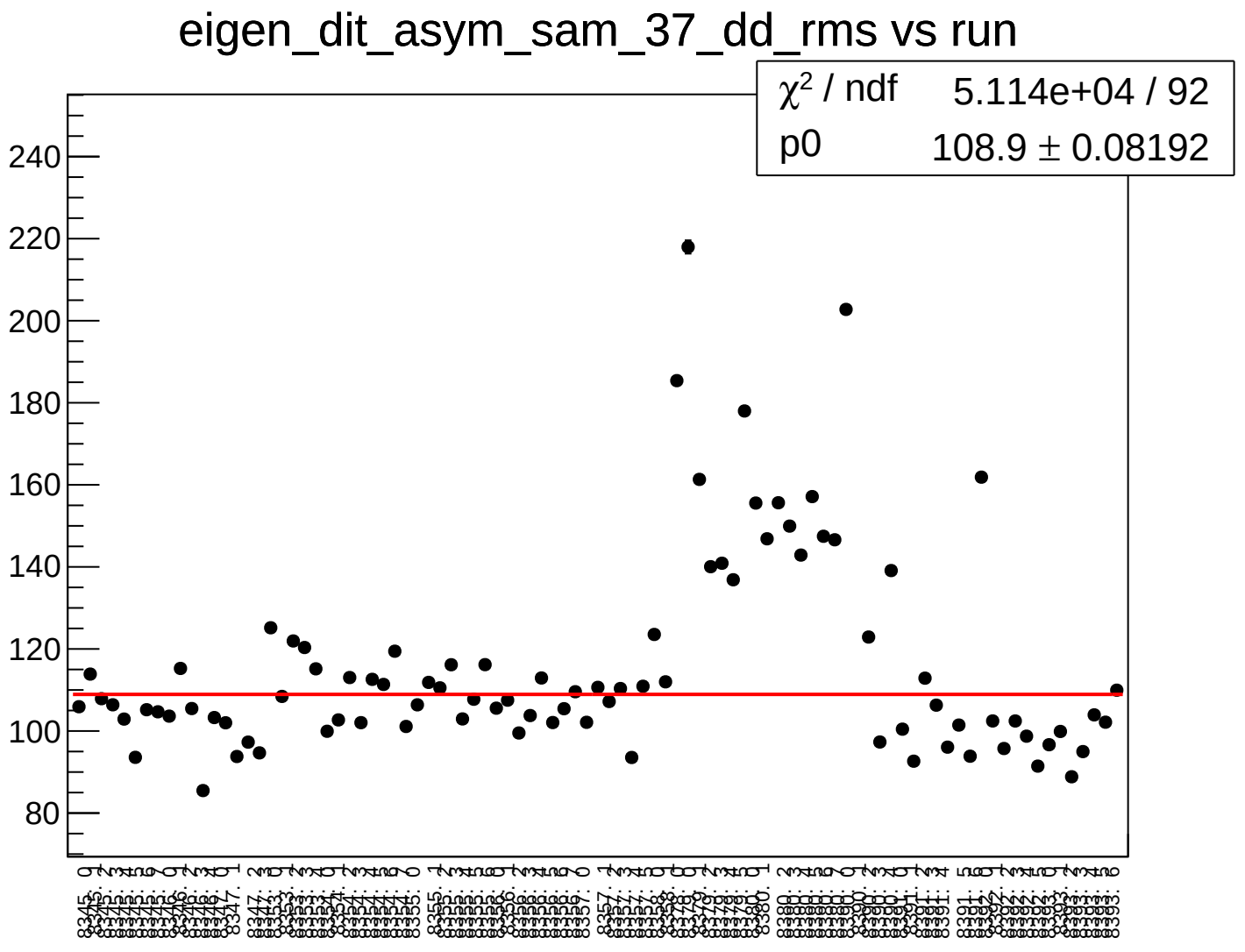

asym_sam_37_dd_dit_correction_mean vs run
χ^2 / ndf 118 / 92
p0 −3488 ± 993.4
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean −294.4
Std Dev 0
3
2
1
0
−1
−2
−3

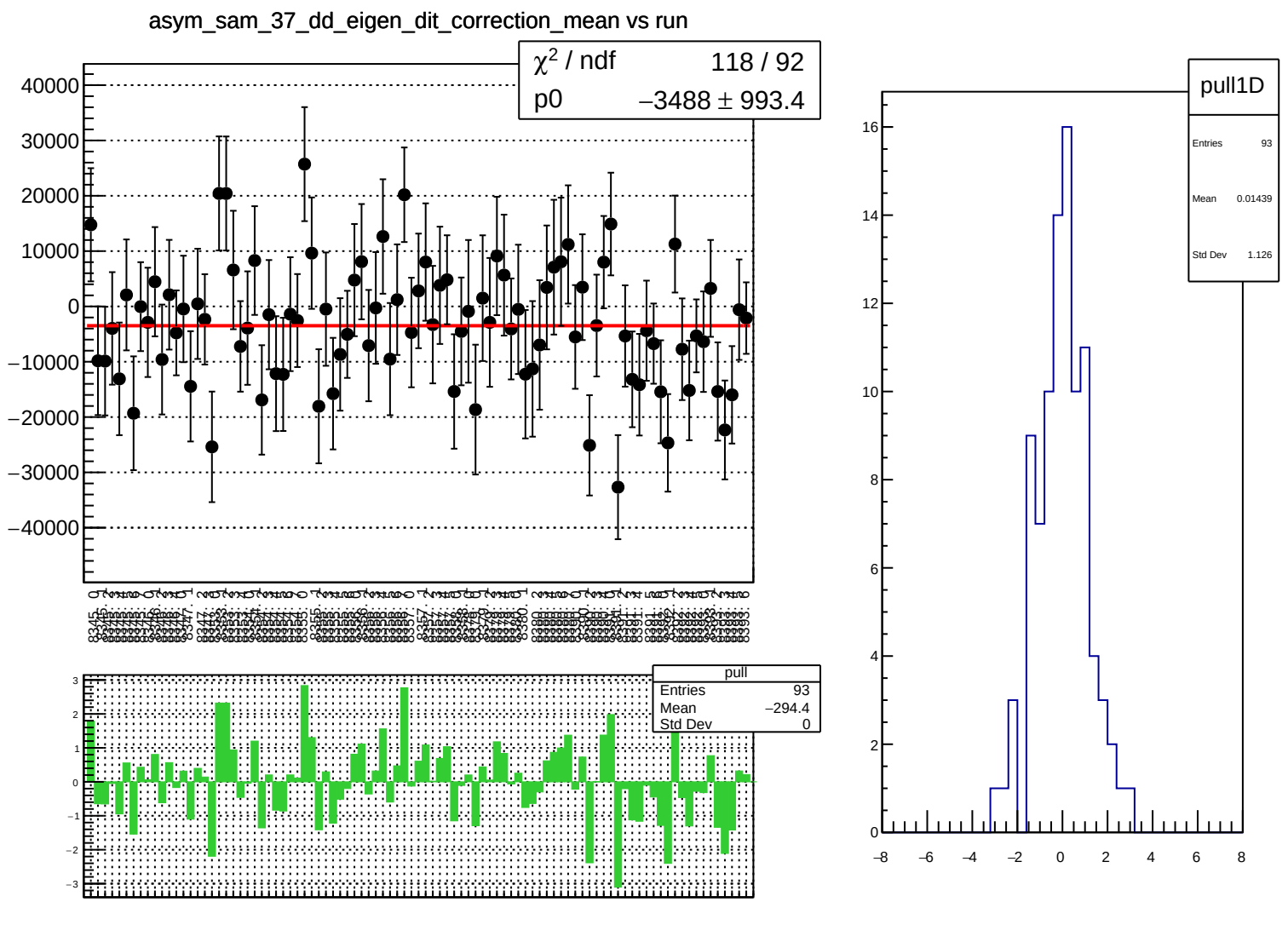

pull1D
Entries 93
Mean 0.01439
Std Dev 1.126
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

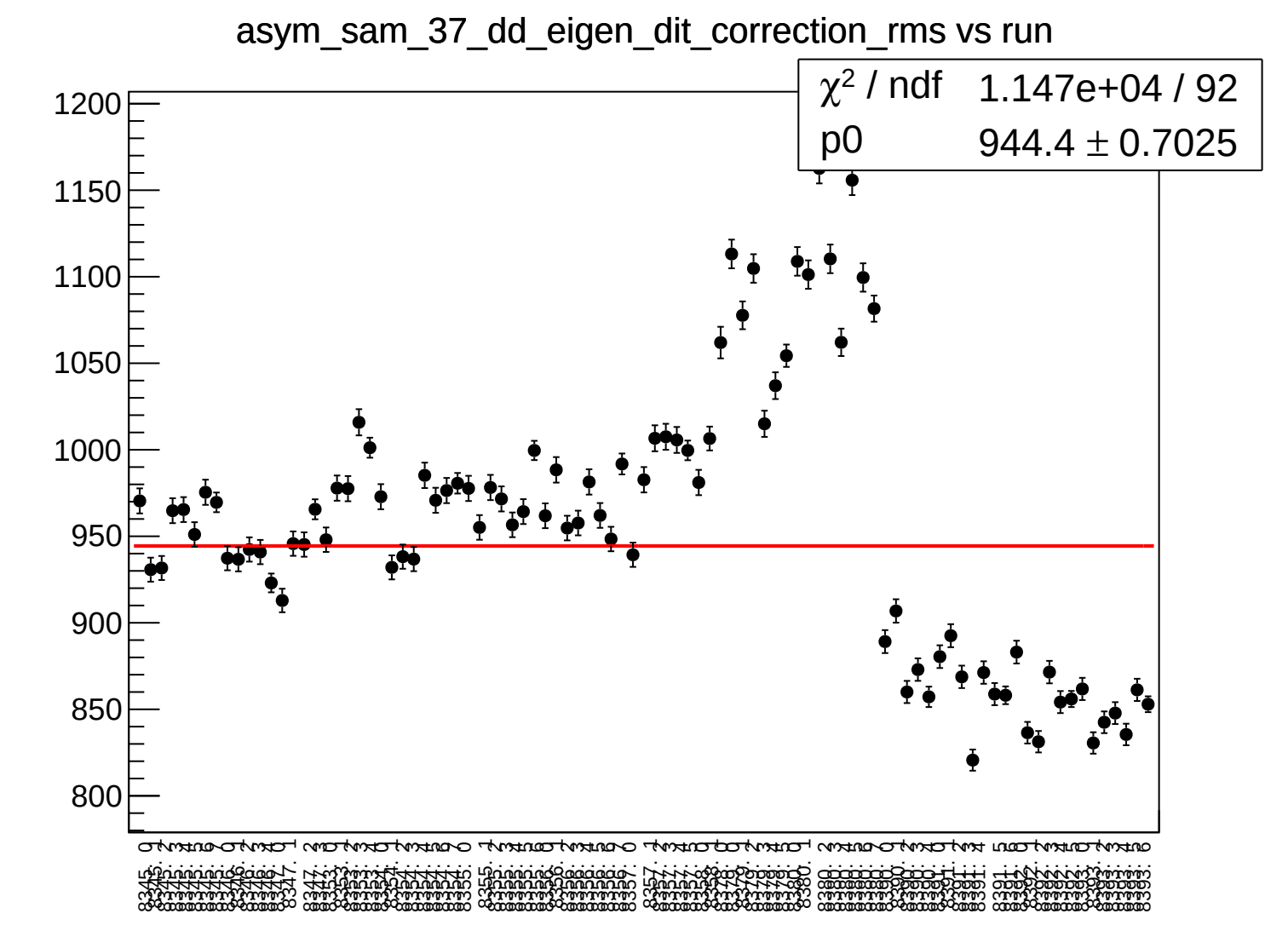

asym_sam_37_dd_dit_correction_rms vs run
χ² / ndf 1.147e+04 / 92
p0 944.4 ± 0.7025
1200
1150
1100
1050
1000
950
900
850
800

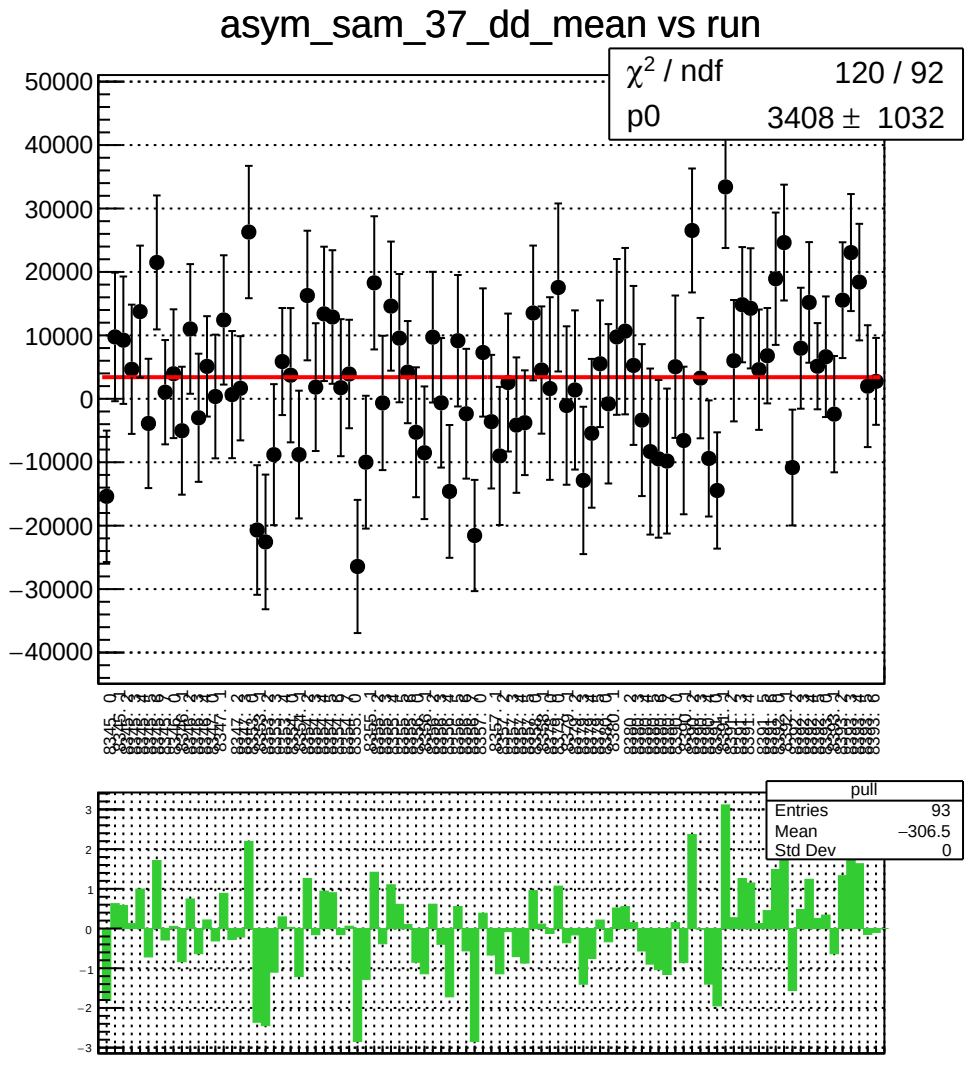

eigen_dit_asym_sam_37_dd_mean vs run
χ² / ndf 96.59 / 92
p0 −13.9 ± 115.9
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean −83.79
Std Dev 0
2
1
0
−1
−2

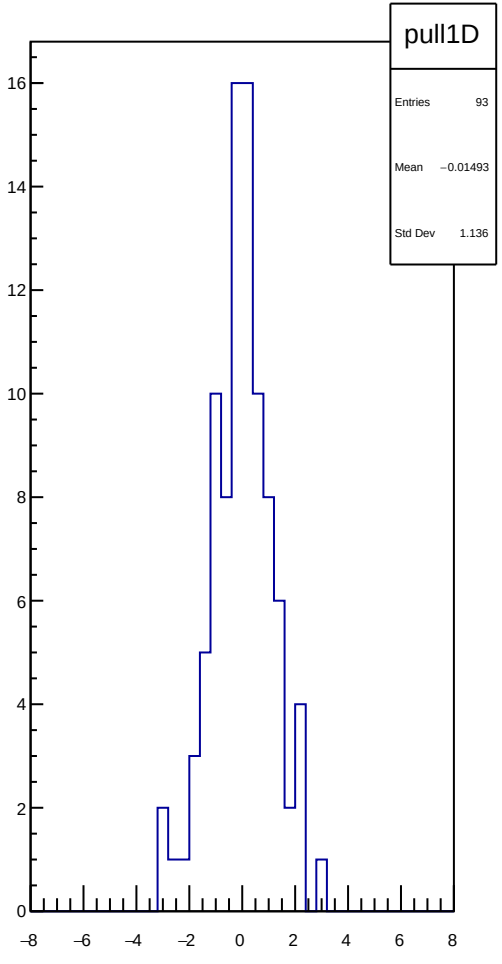

pull1D
Entries 93
Mean −0.03326
Std Dev 1.019
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

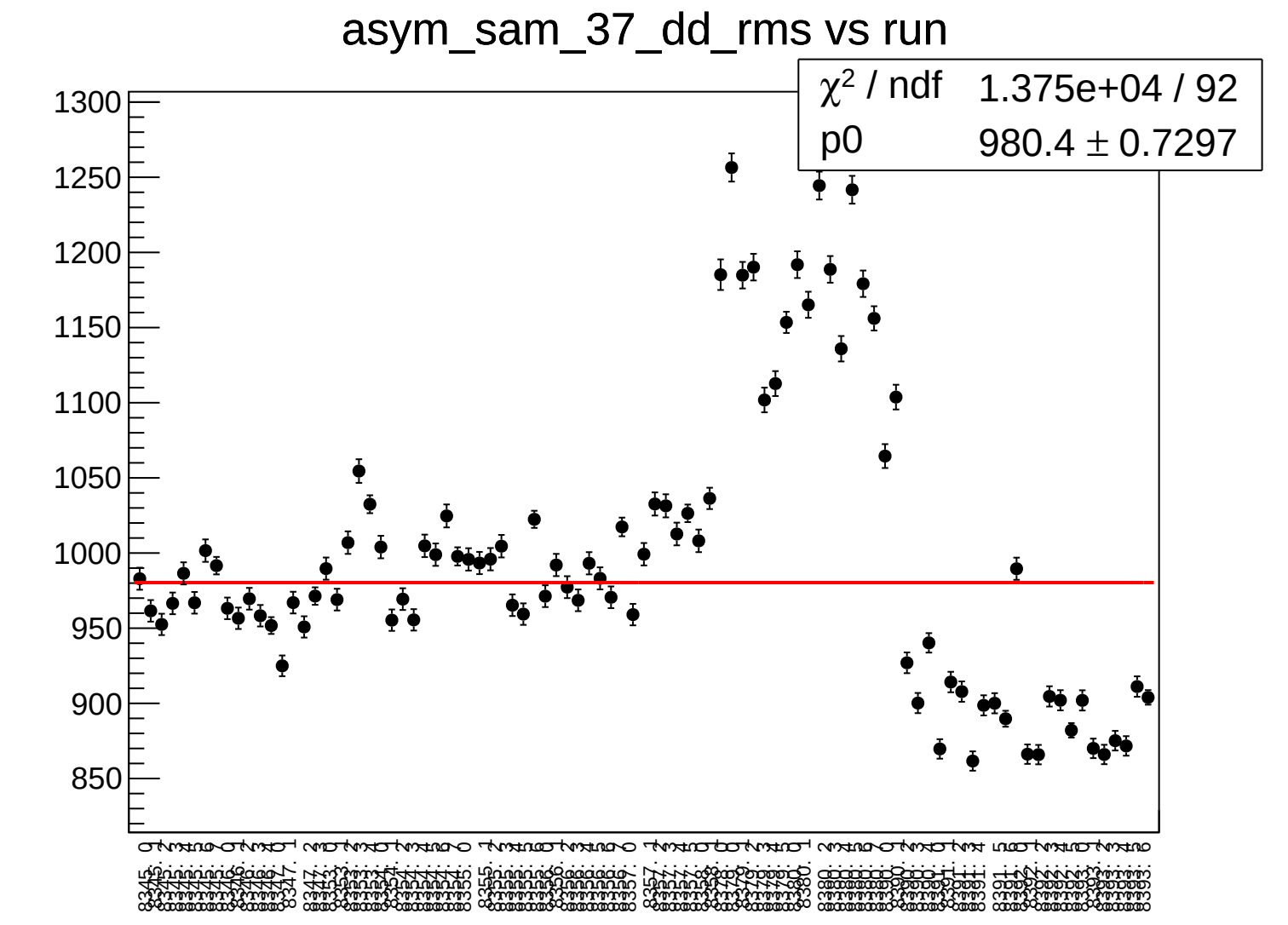

eigen_dit_asym_sam_37_dd_rms vs run
χ² / ndf 5.114e+04 / 92
p0 108.9 ± 0.08192
240
220
200
180
160
140
120
100
80

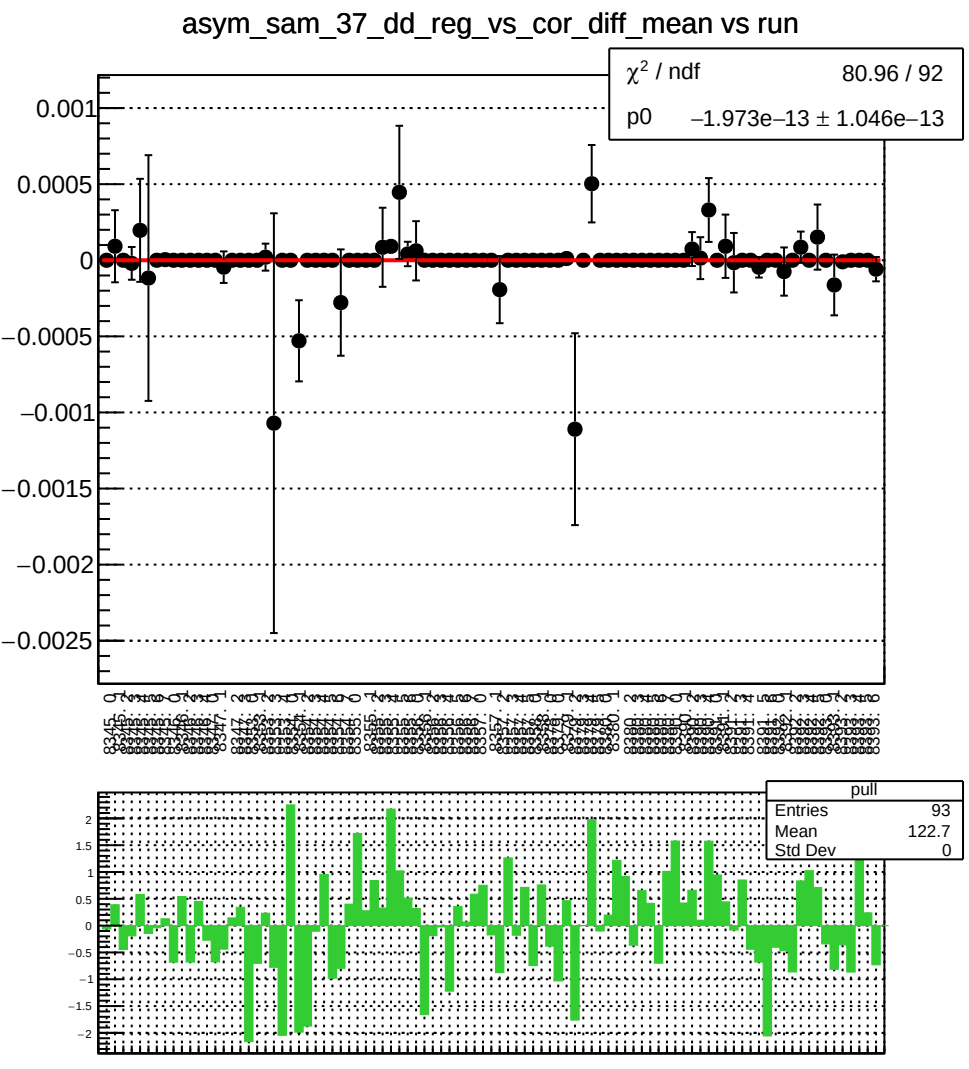

asym_sam_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 118 / 92
p0 −3488 ± 993.4
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean −294.4
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.01439
Std Dev 1.126
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

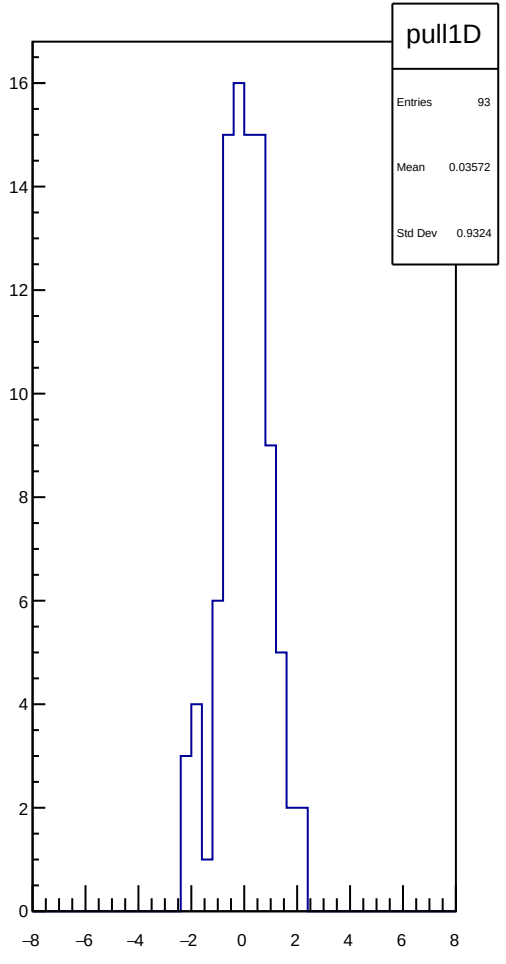

asym_sam_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.147e+04 / 92
p0 944.4 ± 0.7025
1200
1150
1100
1050
1000
950
900
850
800

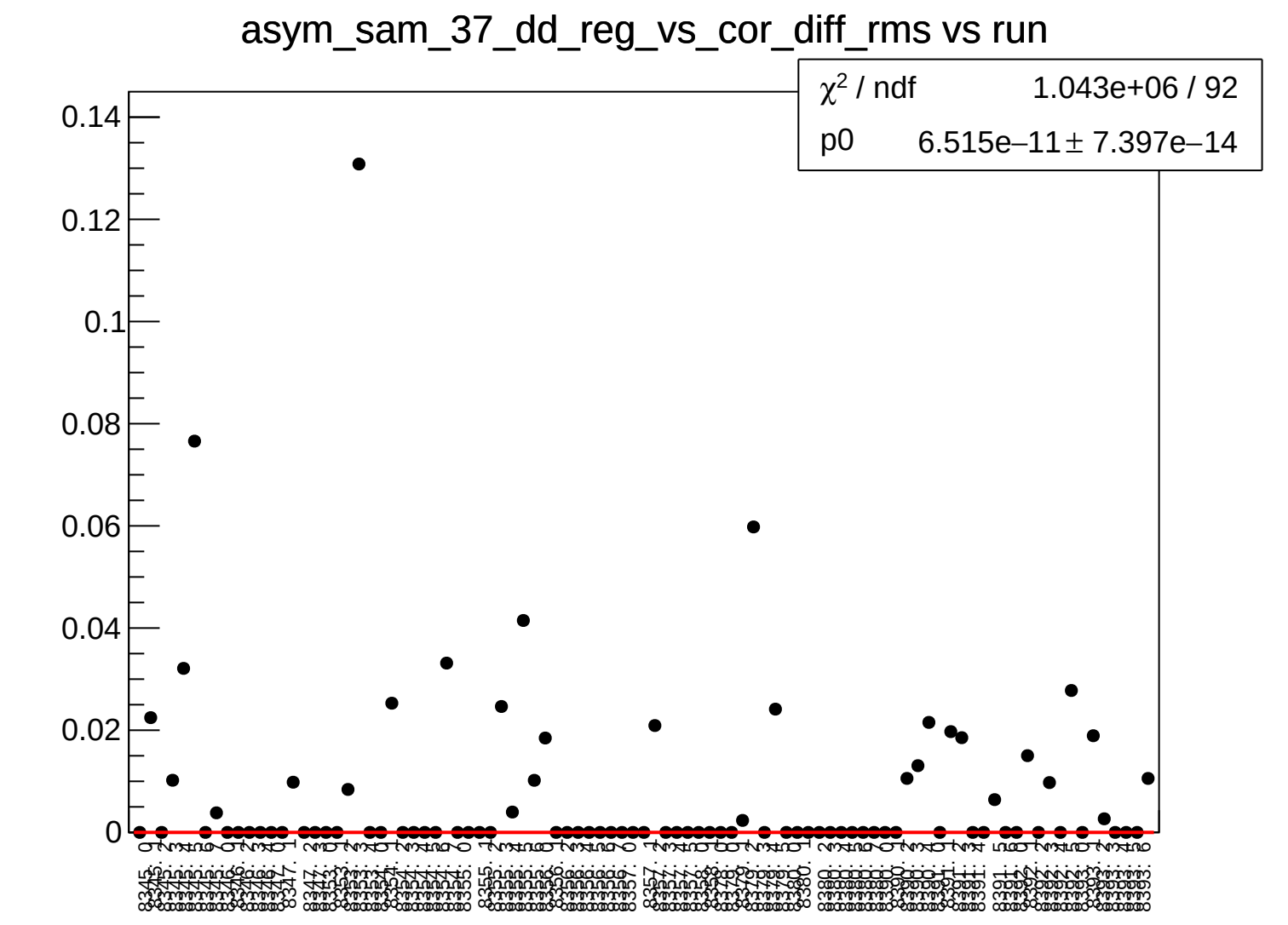

asym_sam_37_dd_mean vs run
χ² / ndf 120 / 92
p0 3408 ± 1032
pull
Entries 93
Mean −306.5
Std Dev 0

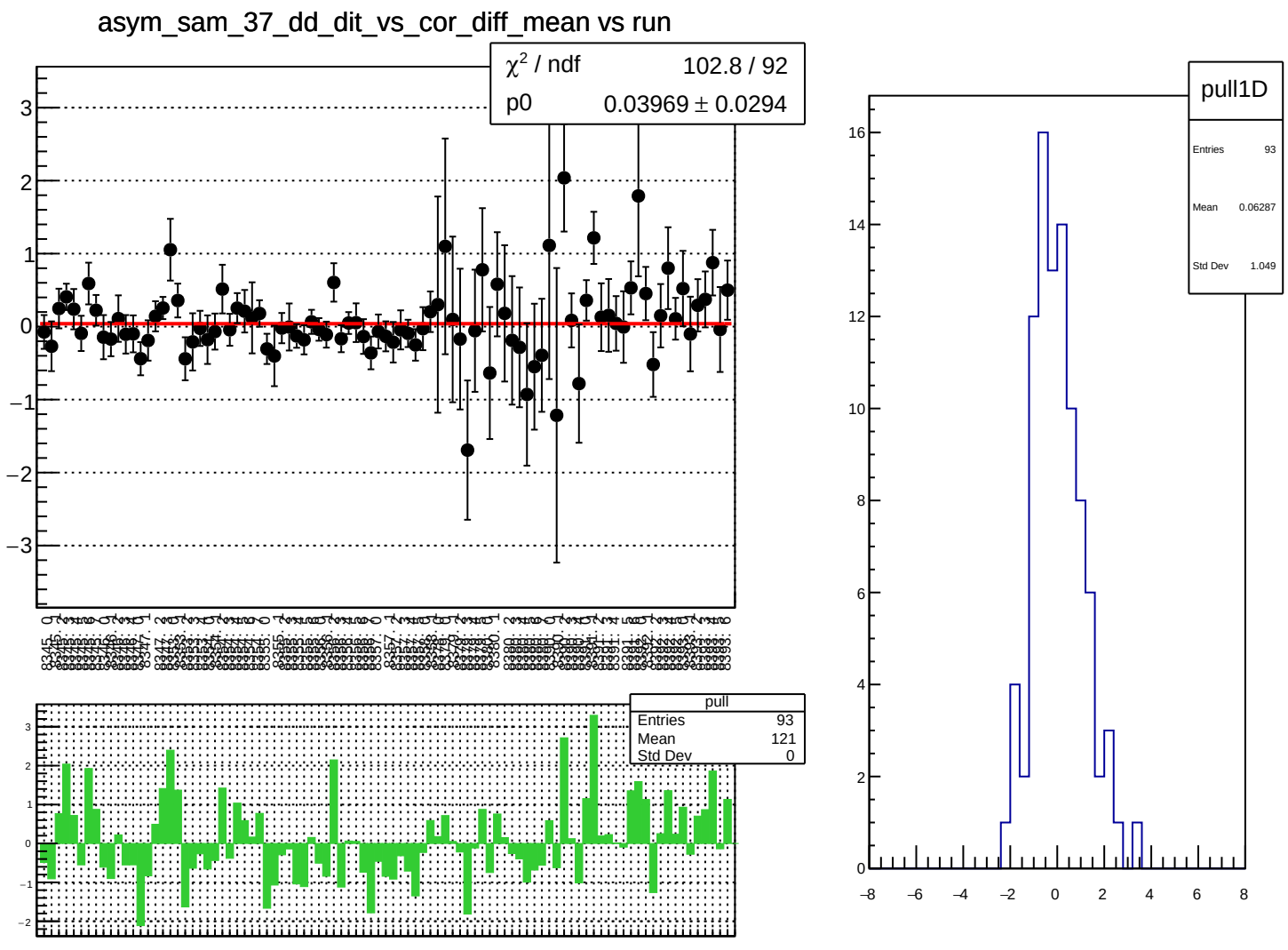

pull1D
Entries 93
Mean −0.01493
Std Dev 1.136

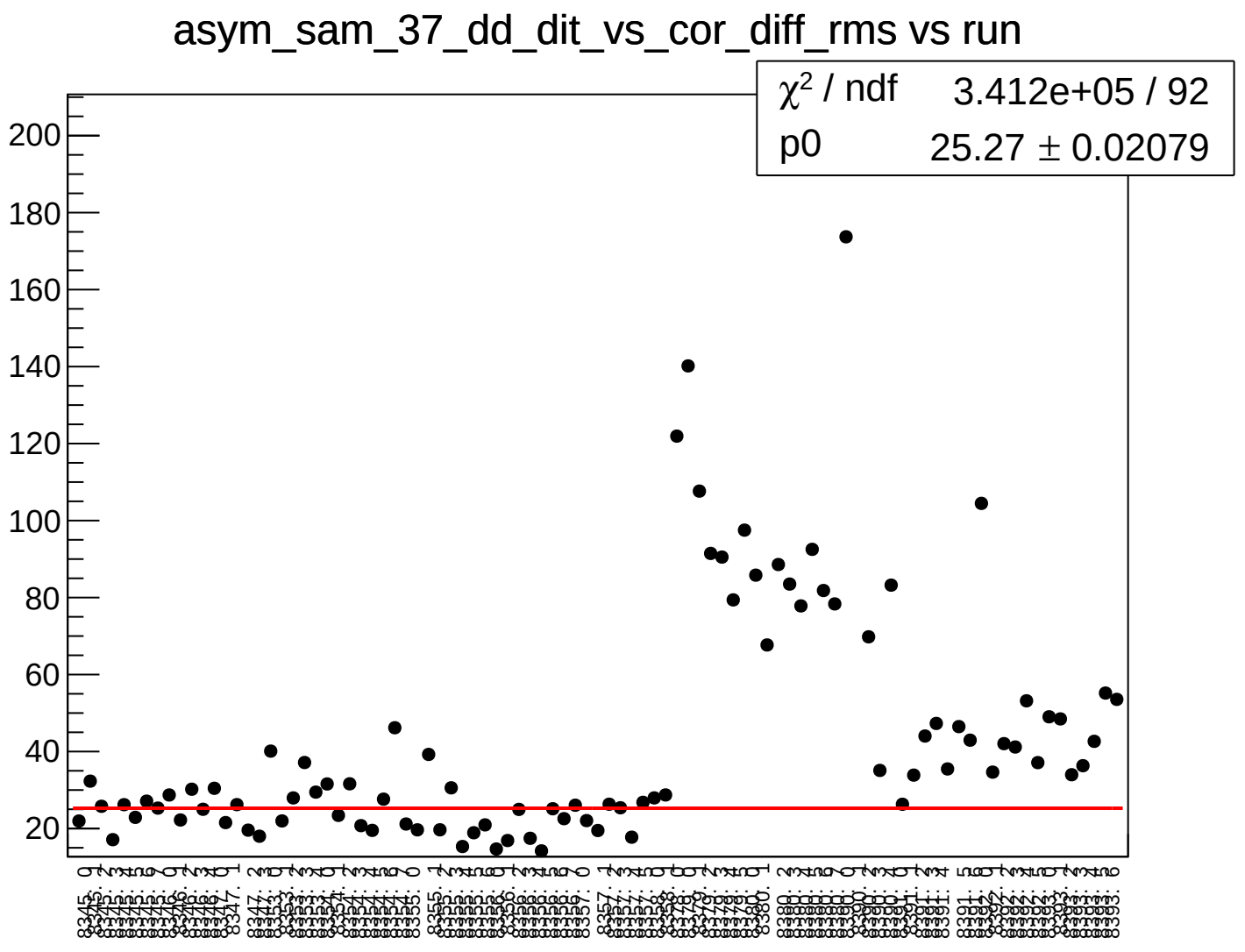

asym_sam_37_dd_rms vs run
χ² / ndf 1.375e+04 / 92
p0 980.4 ± 0.7297
1300
1250
1200
1150
1100
1050
1000
950
900
850

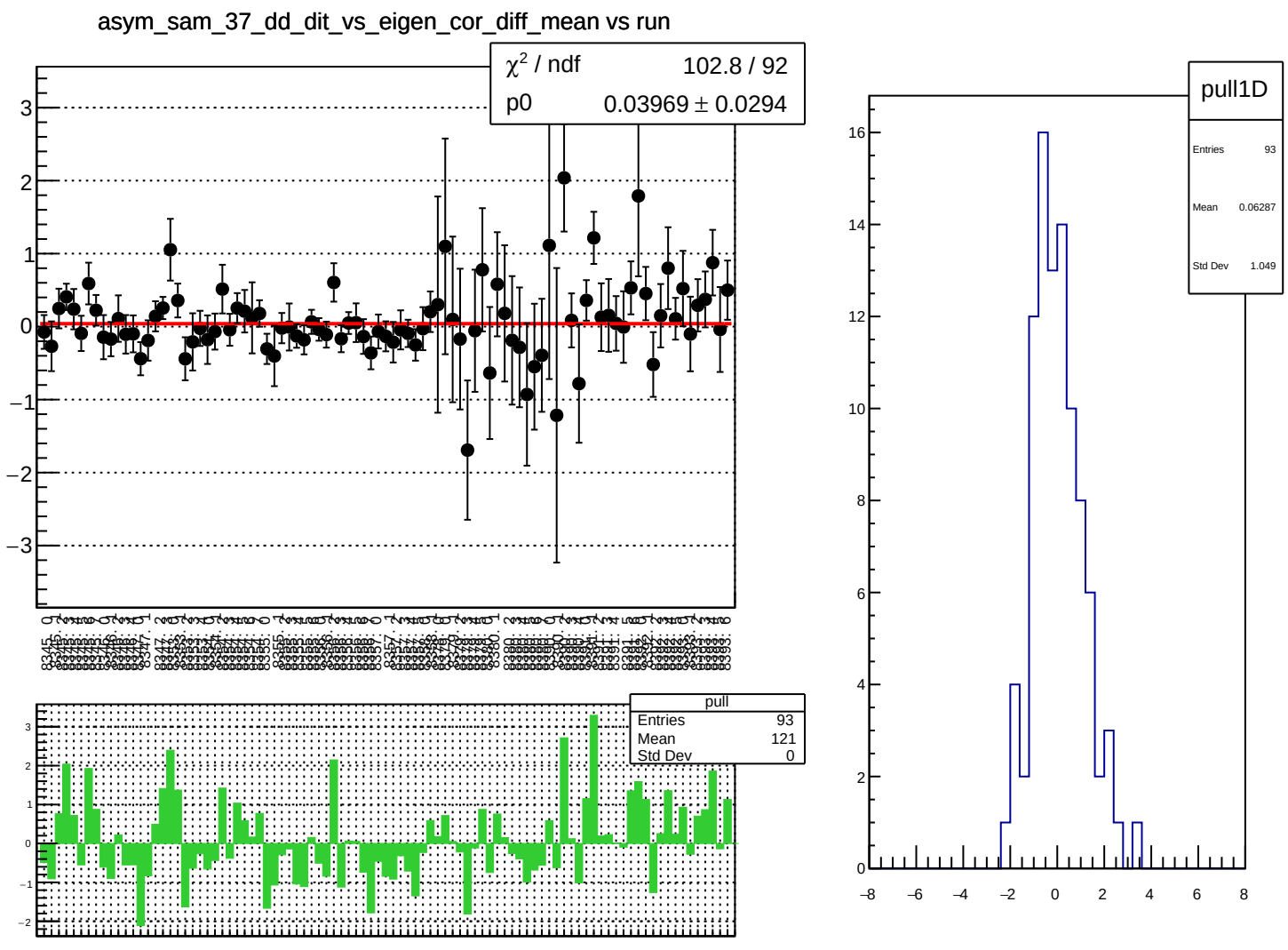

asym_sam_37_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 80.96 / 92
p0 −1.973e−13 ± 1.046e−13
pull
Entries 93
Mean 122.7
Std Dev 0

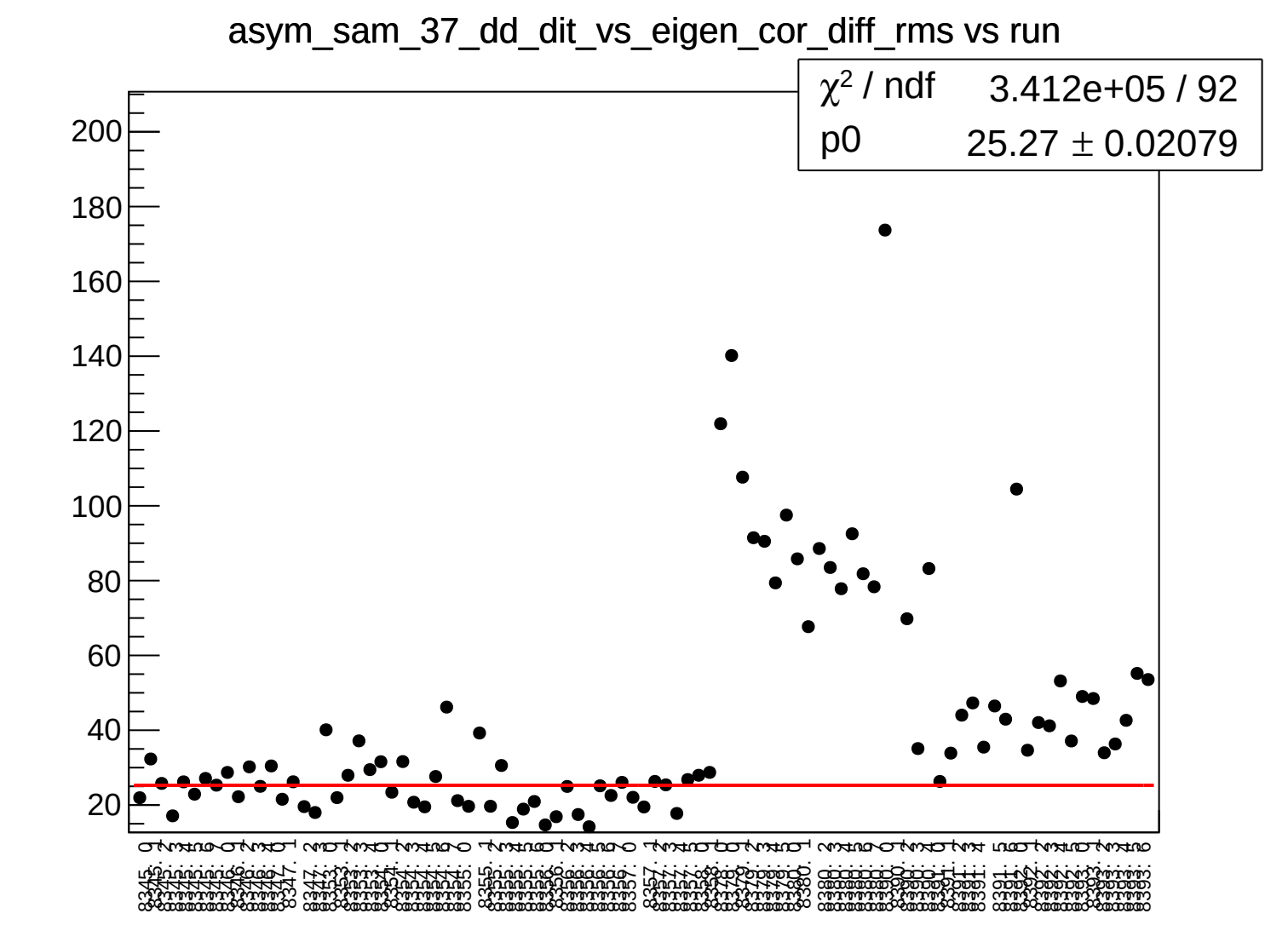

pull1D
Entries 93
Mean 0.03572
Std Dev 0.9324

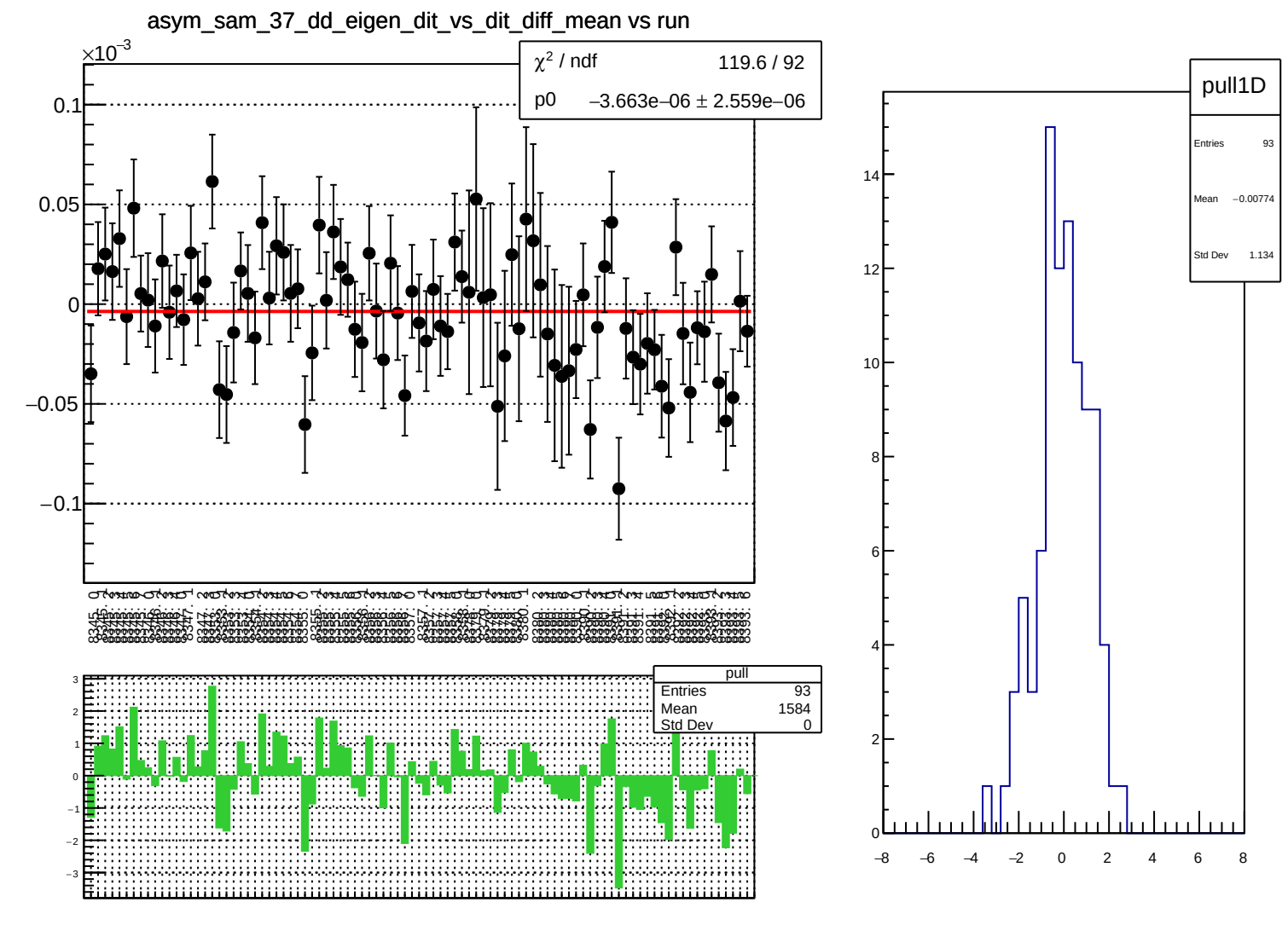

asym_sam_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.043e+06 / 92
p0 6.515e−11 ± 7.397e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

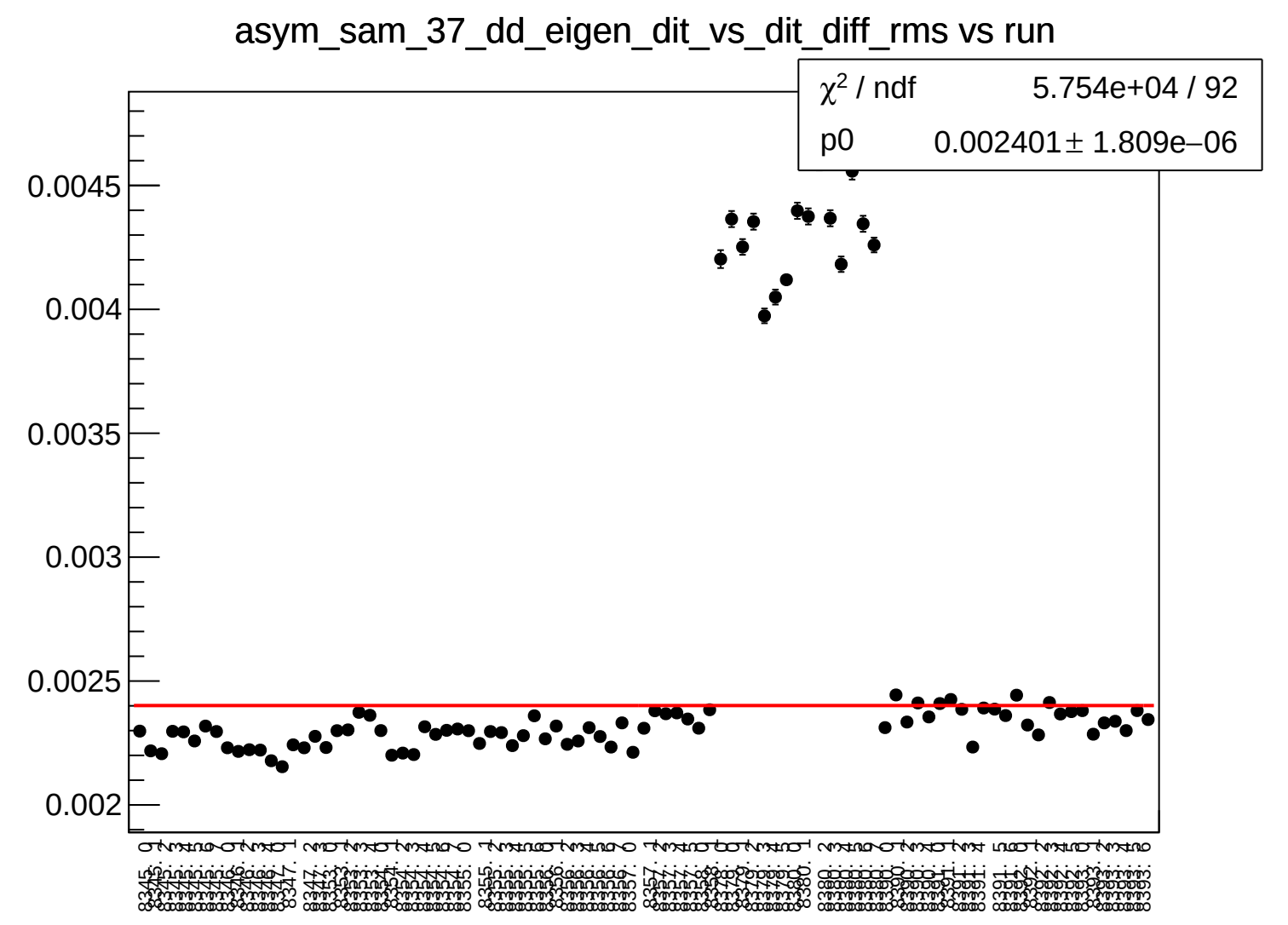

asym_sam_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 102.8 / 92
p0 0.03969 ± 0.0294
pull
Entries 93
Mean 121
Std Dev 0
pull1D
Entries 93
Mean 0.06287
Std Dev 1.049

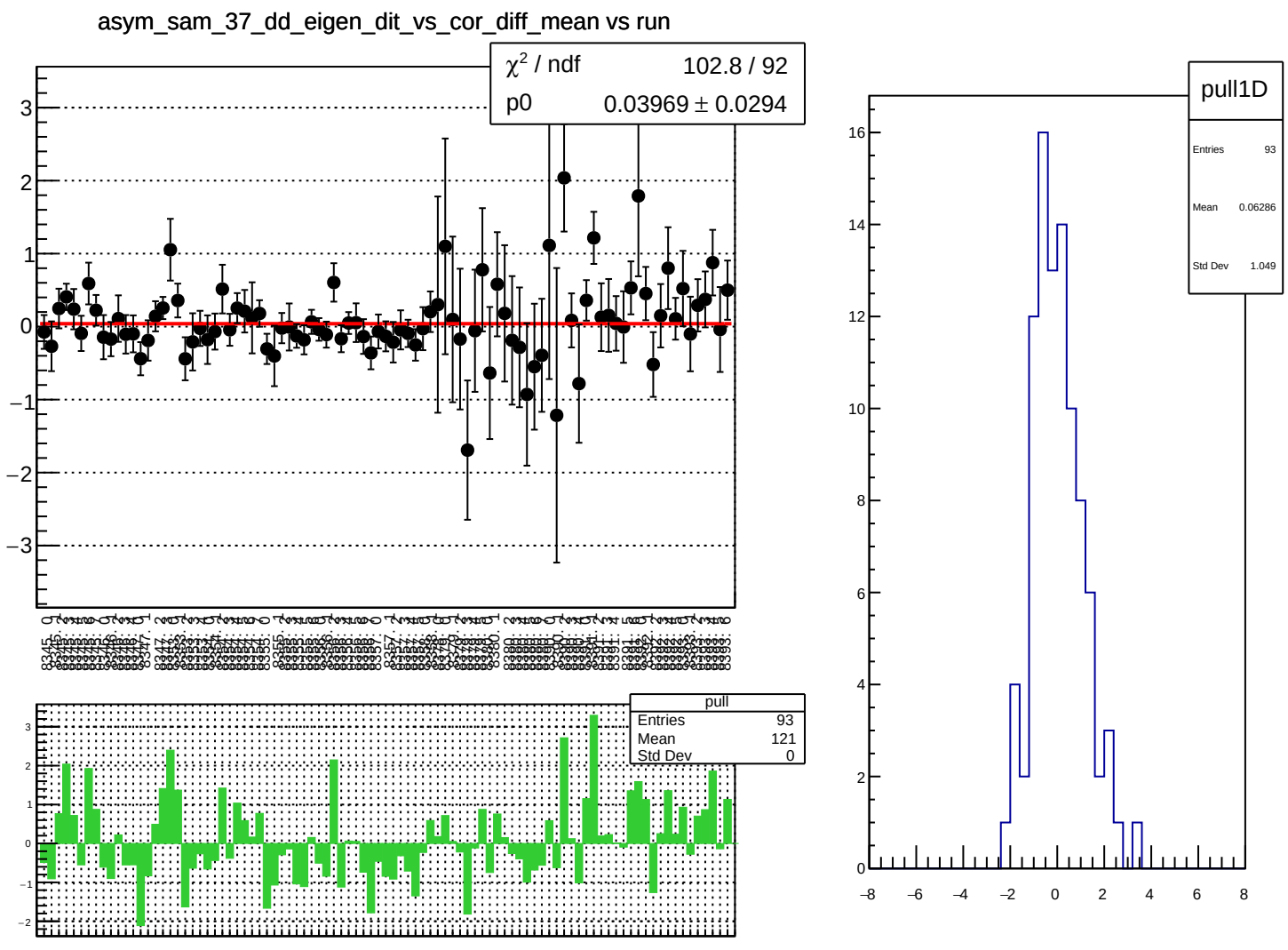

asym_sam_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.412e+05 / 92
p0 25.27 ± 0.02079
200
180
160
140
120
100
80
60
40
20

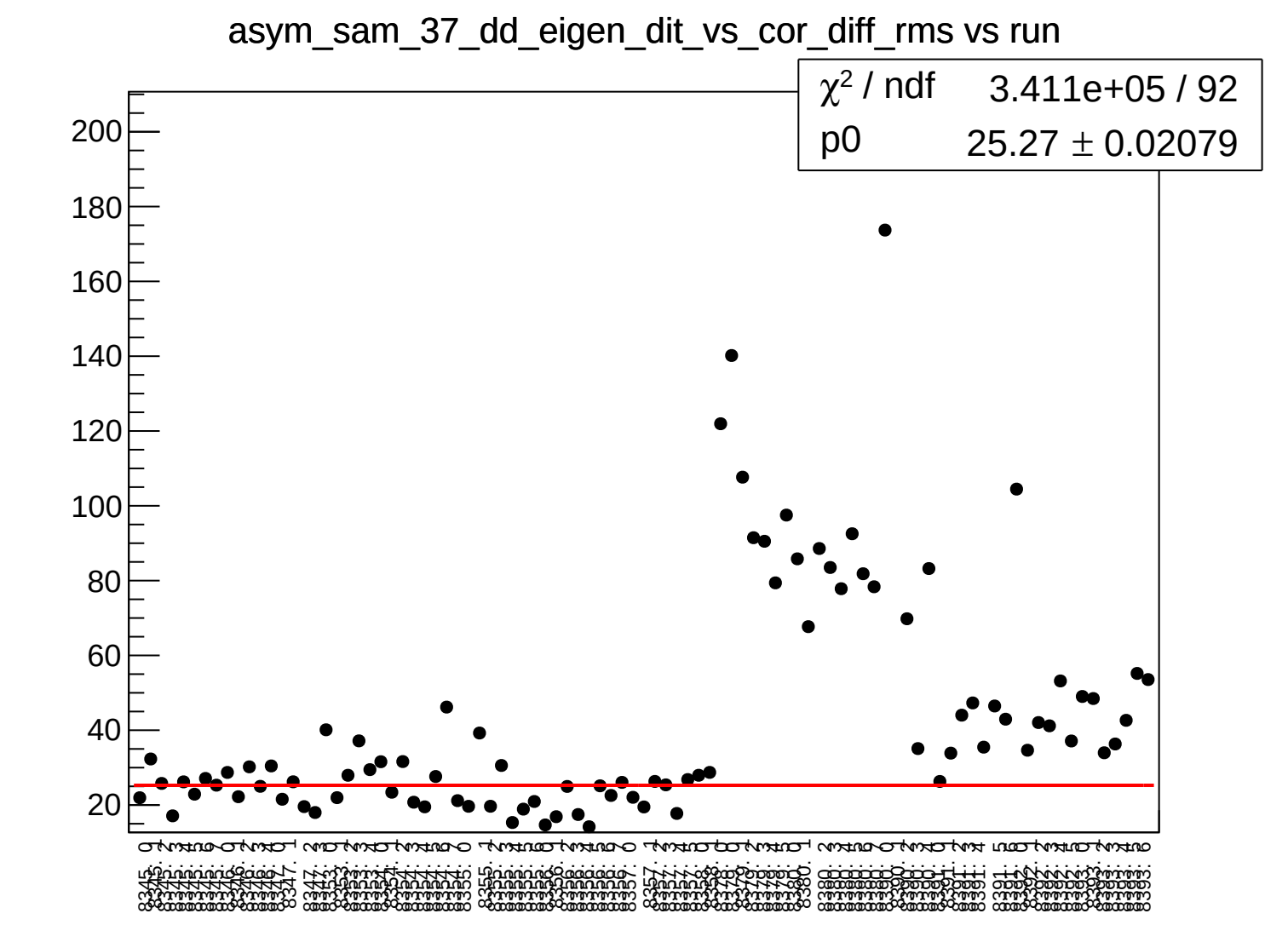

asym_sam_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.8 / 92
p0 0.03969 ± 0.0294
pull
Entries 93
Mean 121
Std Dev 0
pull1D
Entries 93
Mean 0.06287
Std Dev 1.049

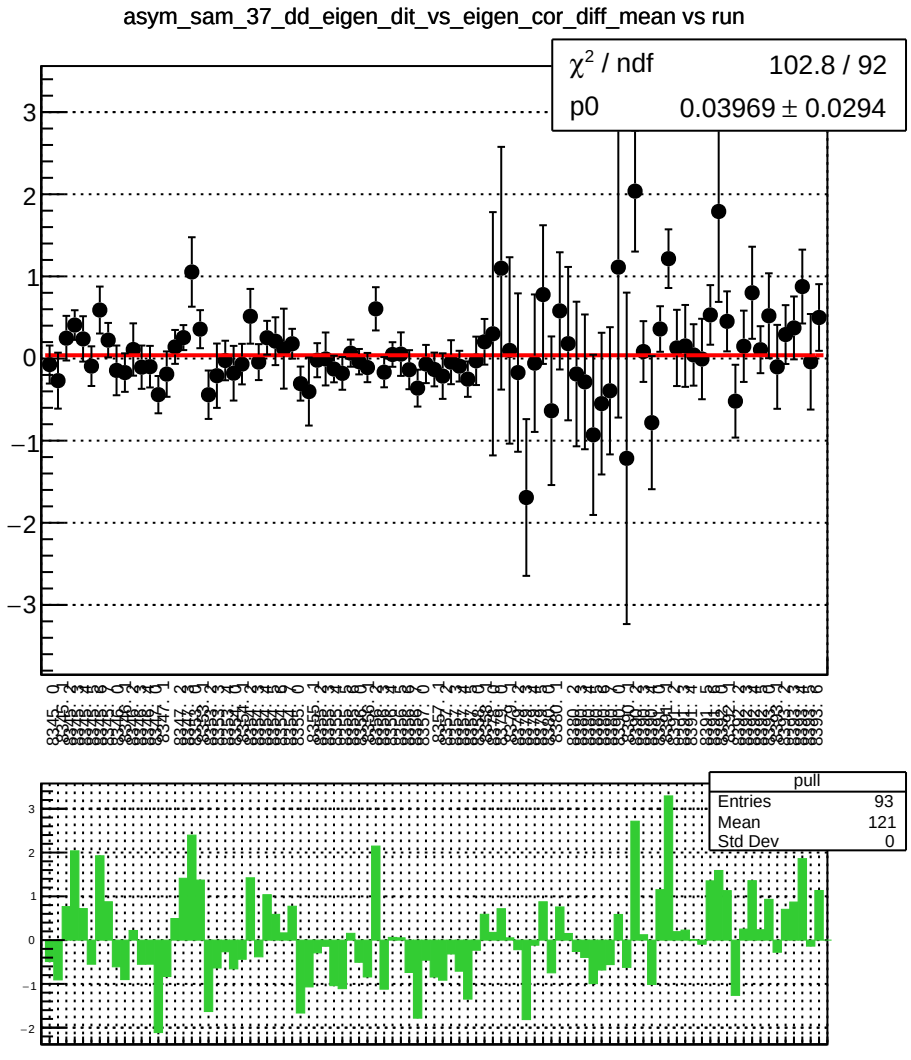

asym_sam_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.412e+05 / 92
p0 25.27 ± 0.02079
200
180
160
140
120
100
80
60
40
20

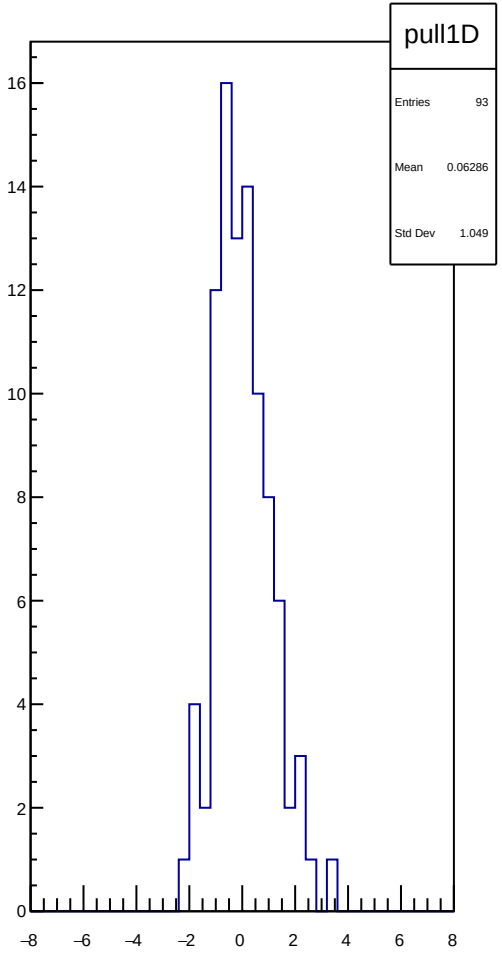

asym_sam_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 119.6 / 92
p0 −3.663e−06 ± 2.559e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 93
Mean 1584
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.00774
Std Dev 1.134
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

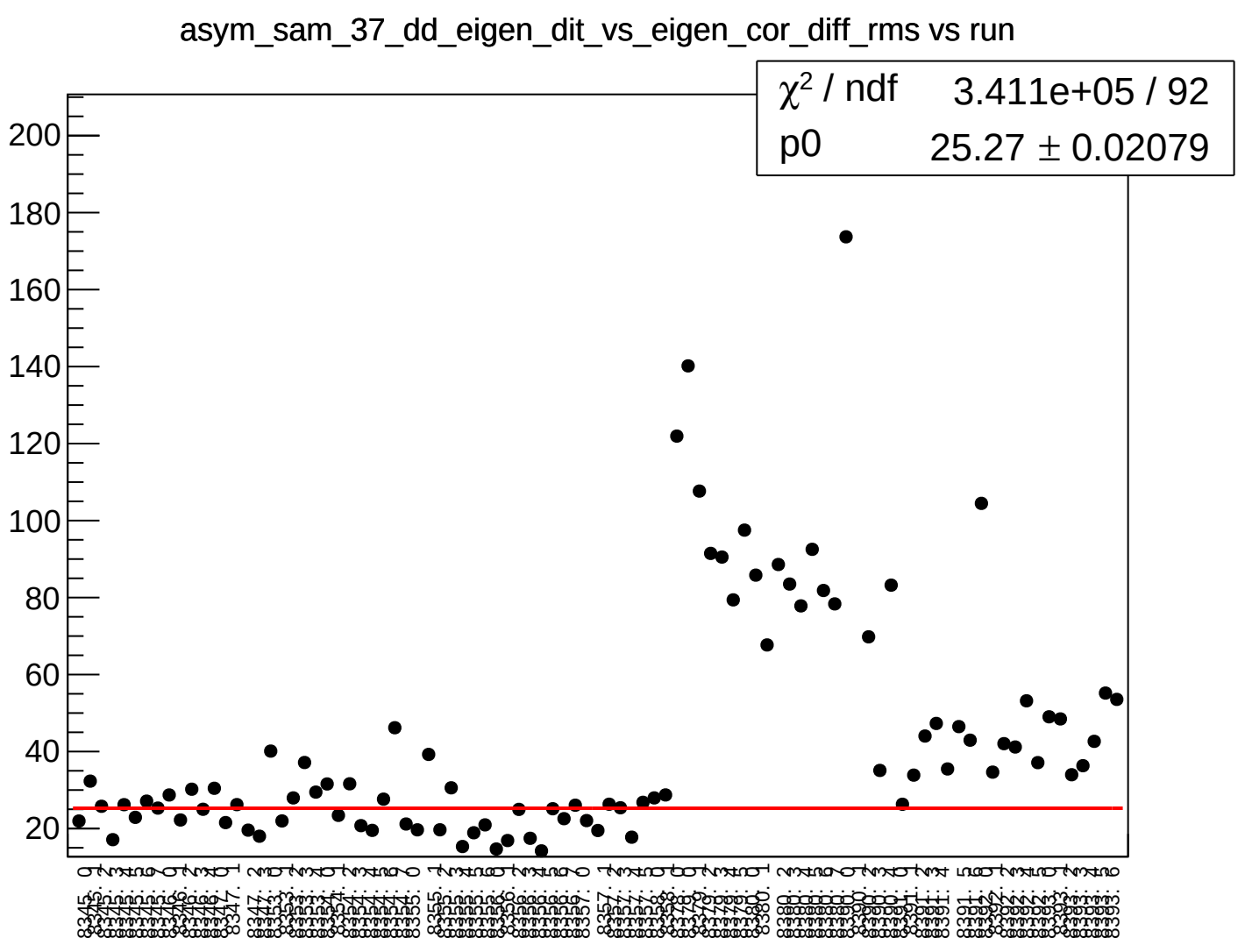

asym_sam_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.754e+04 / 92
p0 0.002401 ± 1.809e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002

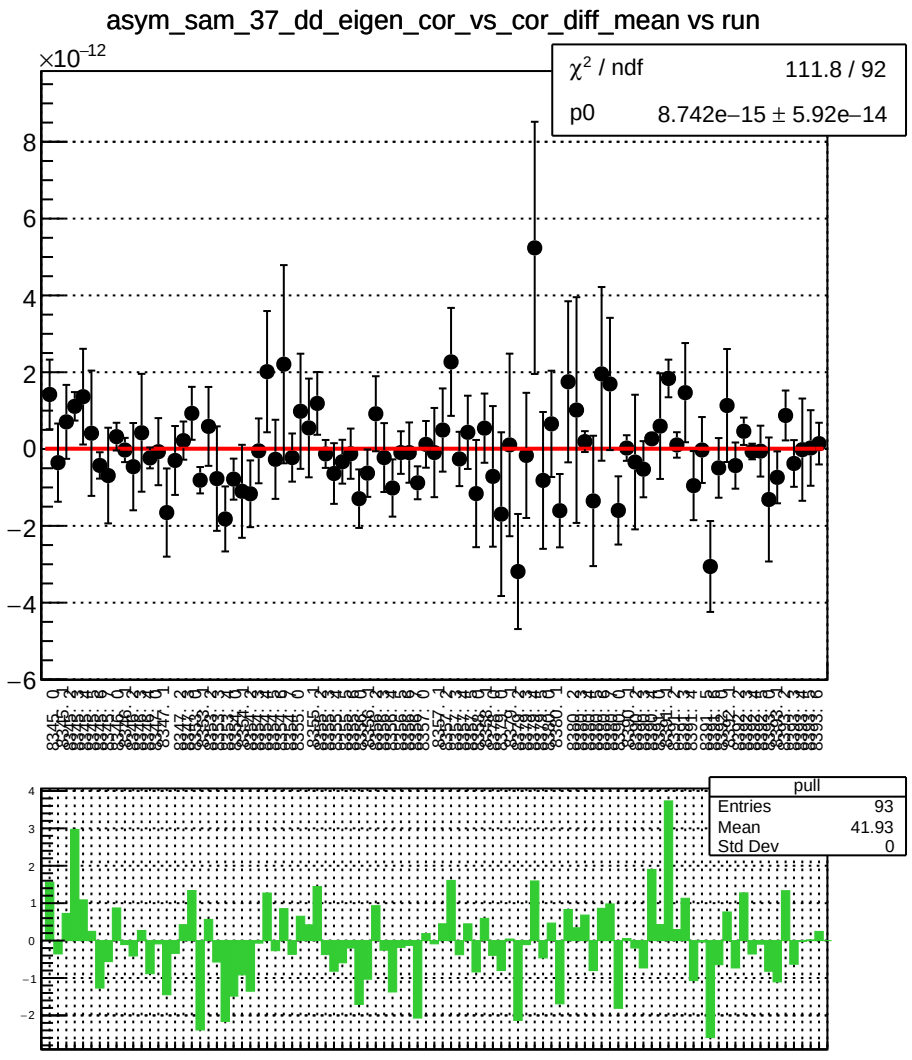

asym_sam_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 102.8 / 92
p0 0.03969 ± 0.0294
pull
Entries 93
Mean 121
Std Dev 0
pull1D
Entries 93
Mean 0.06286
Std Dev 1.049

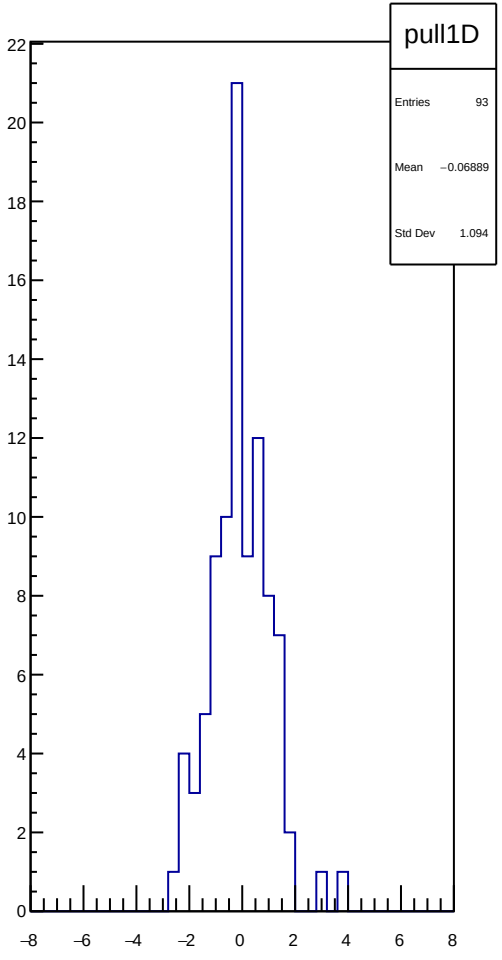

asym_sam_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.411e+05 / 92
p0 25.27 ± 0.02079
200
180
160
140
120
100
80
60
40
20

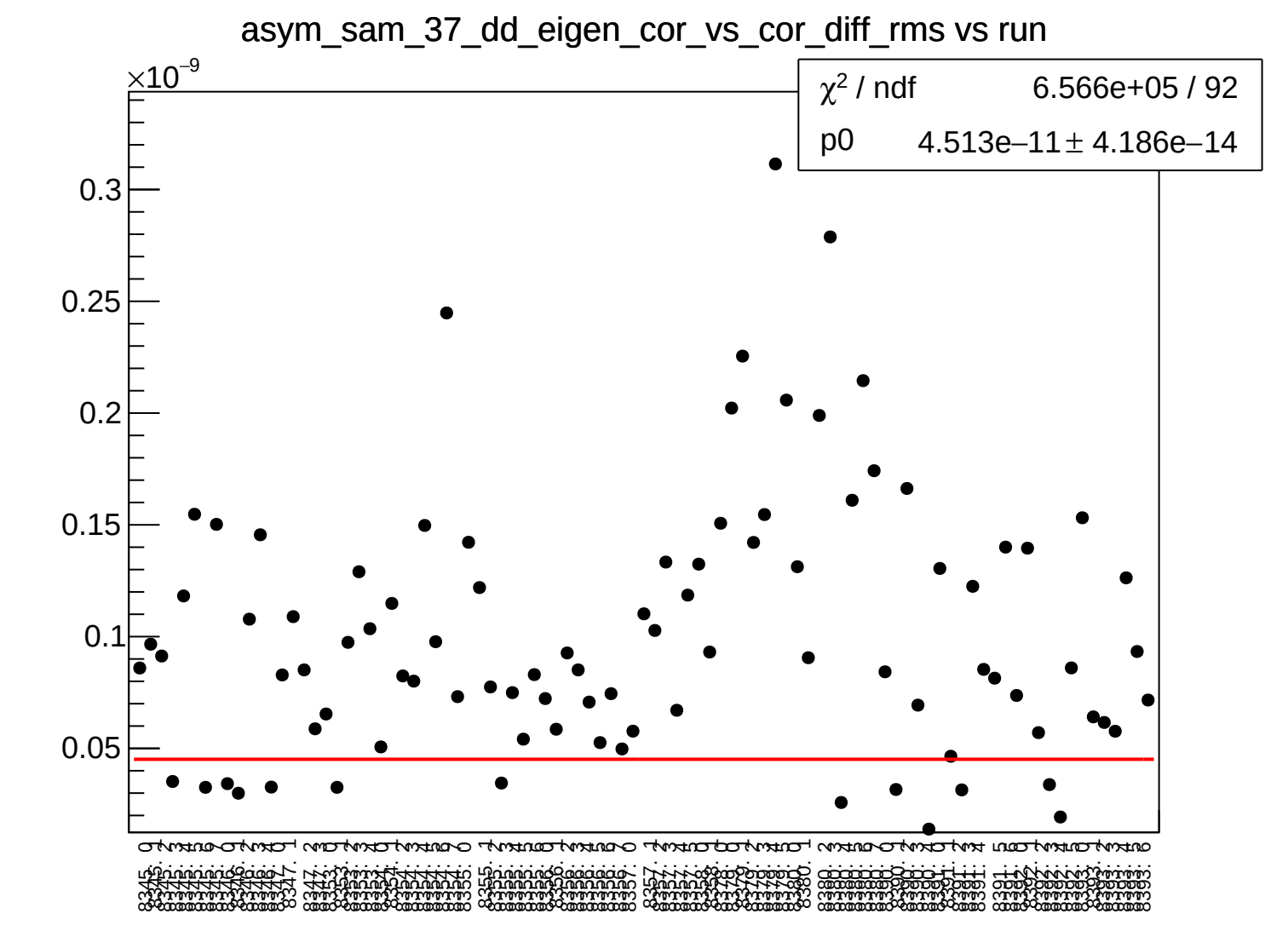

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.8 / 92
p0 0.03969 ± 0.0294
pull
Entries 93
Mean 121
Std Dev 0

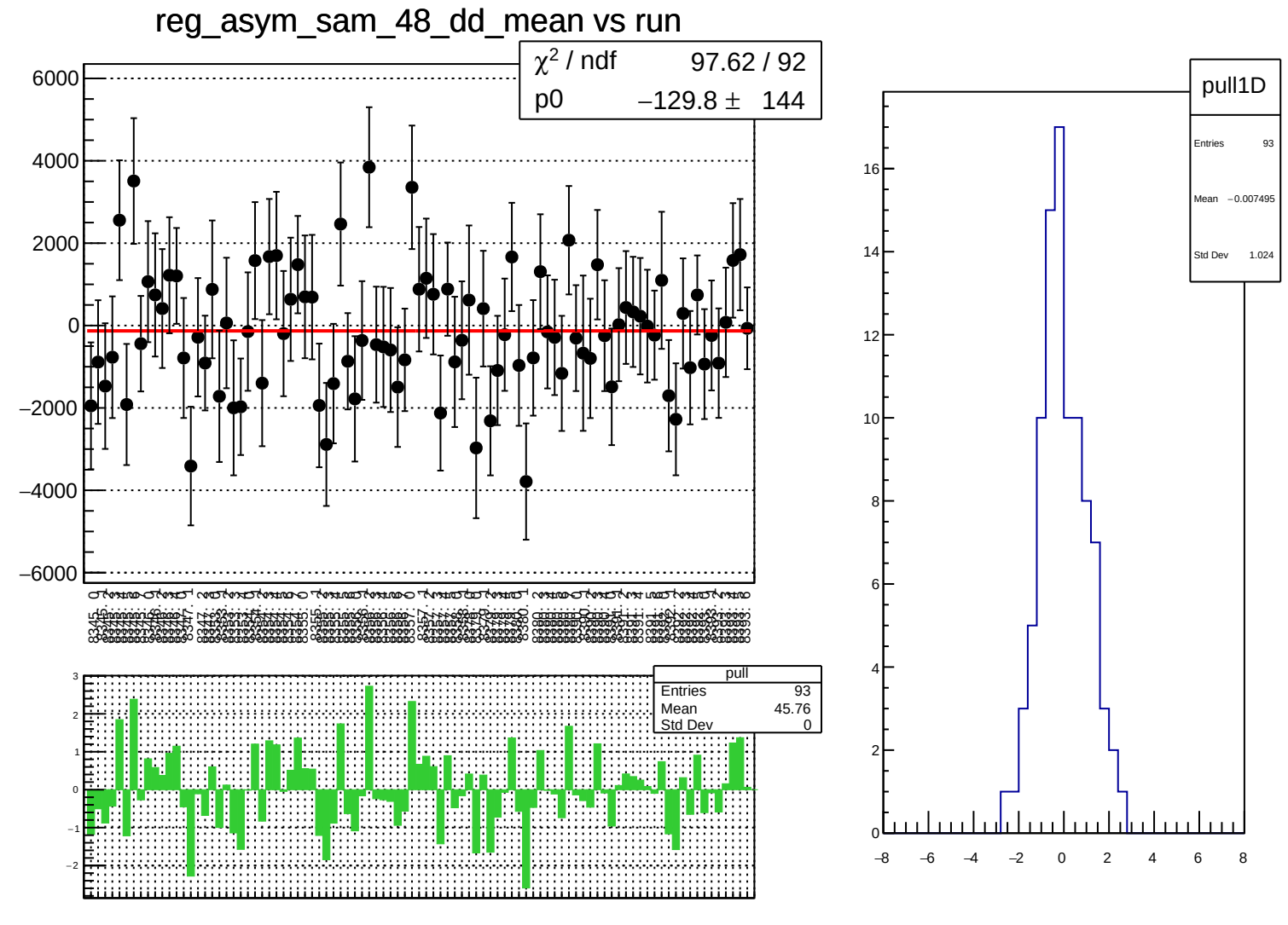

pull1D
Entries 93
Mean 0.06286
Std Dev 1.049

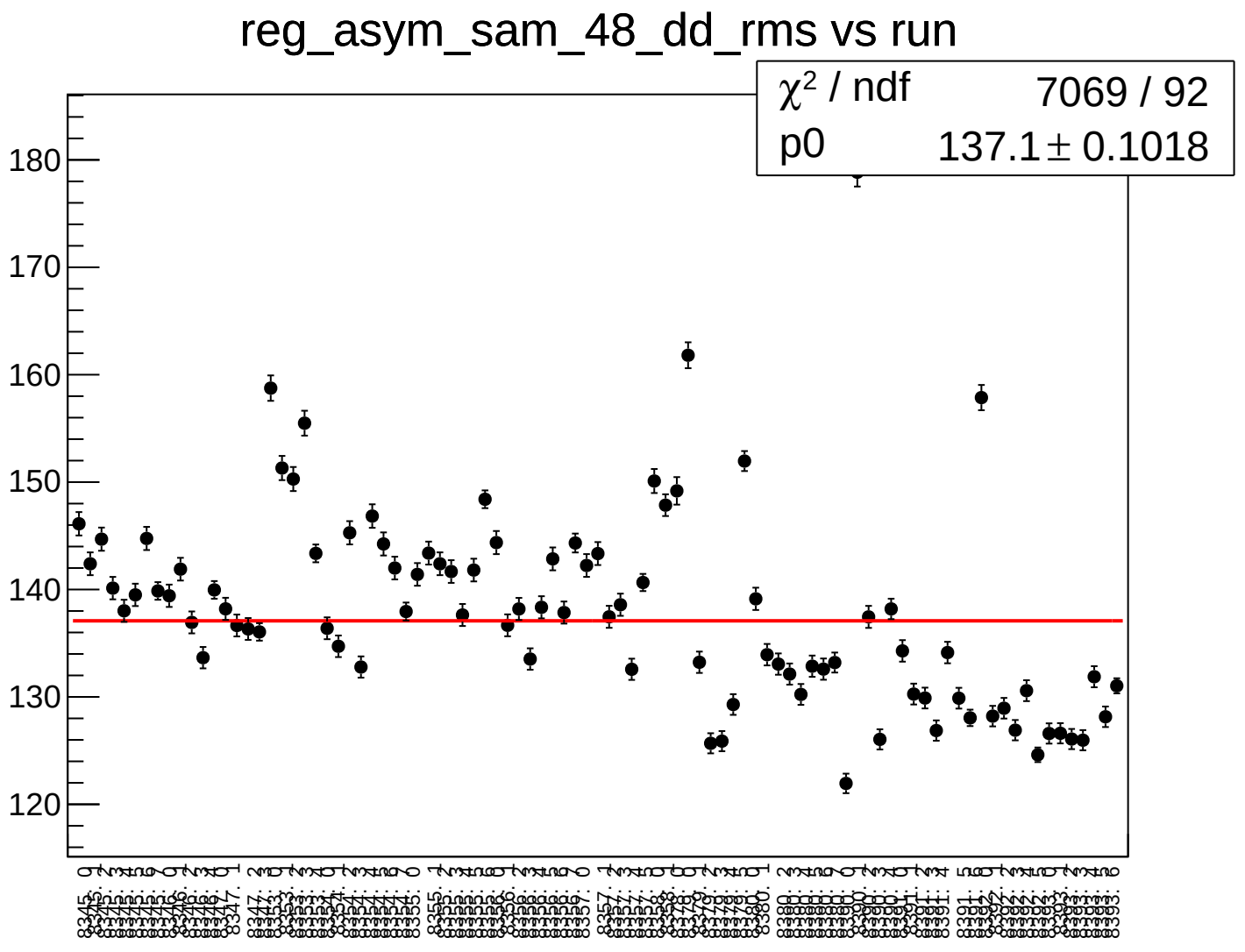

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.411e+05 / 92
p0 25.27 ± 0.02079
200
180
160
140
120
100
80
60
40
20

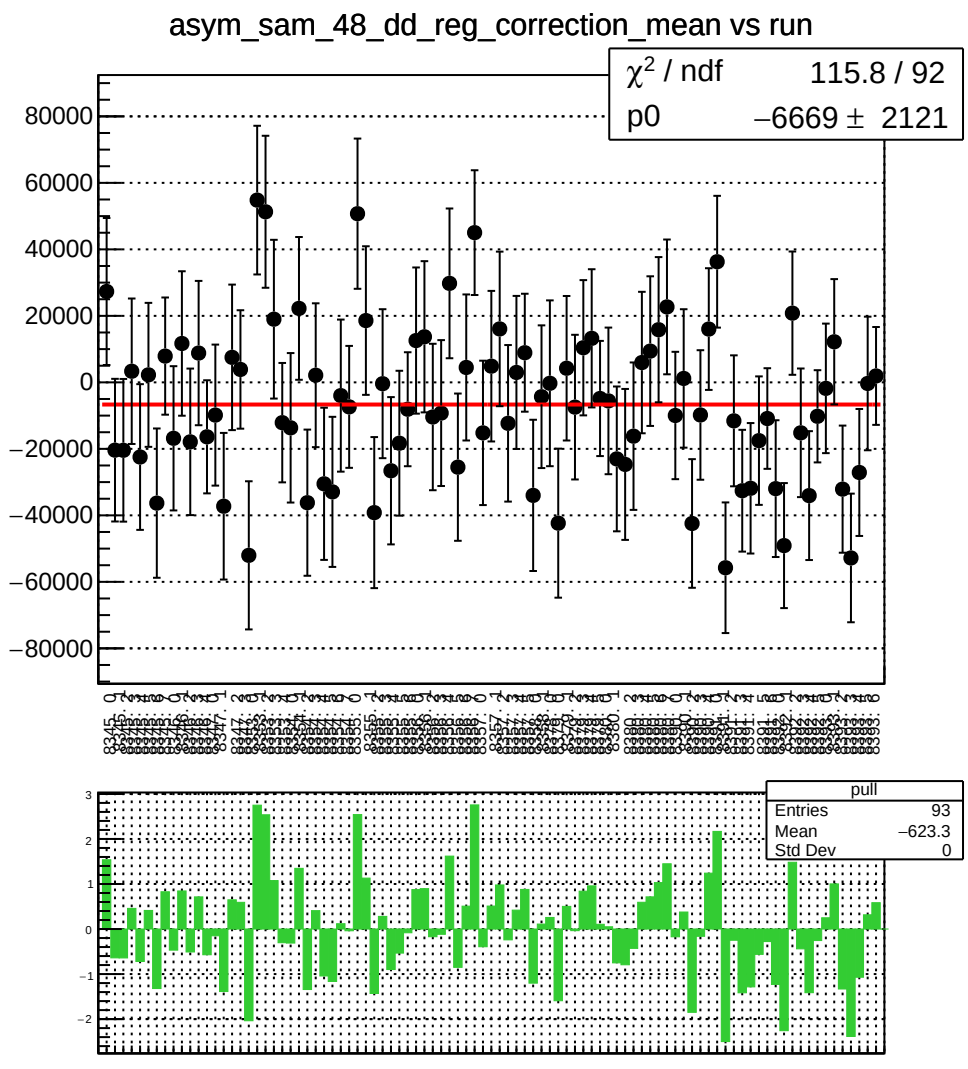

asym_sam_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 111.8 / 92
p0 8.742e−15 ± 5.92e−14
pull
Entries 93
Mean 41.93
Std Dev 0

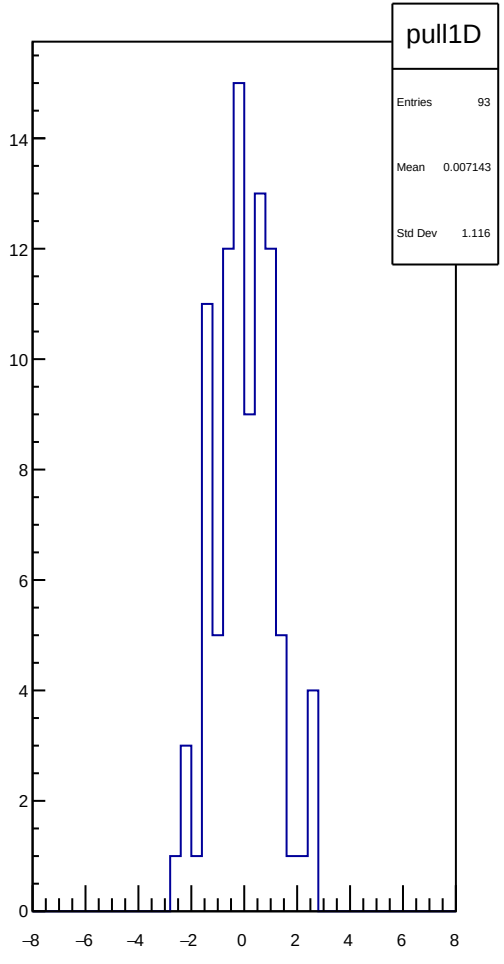

pull1D
Entries 93
Mean −0.06889
Std Dev 1.094

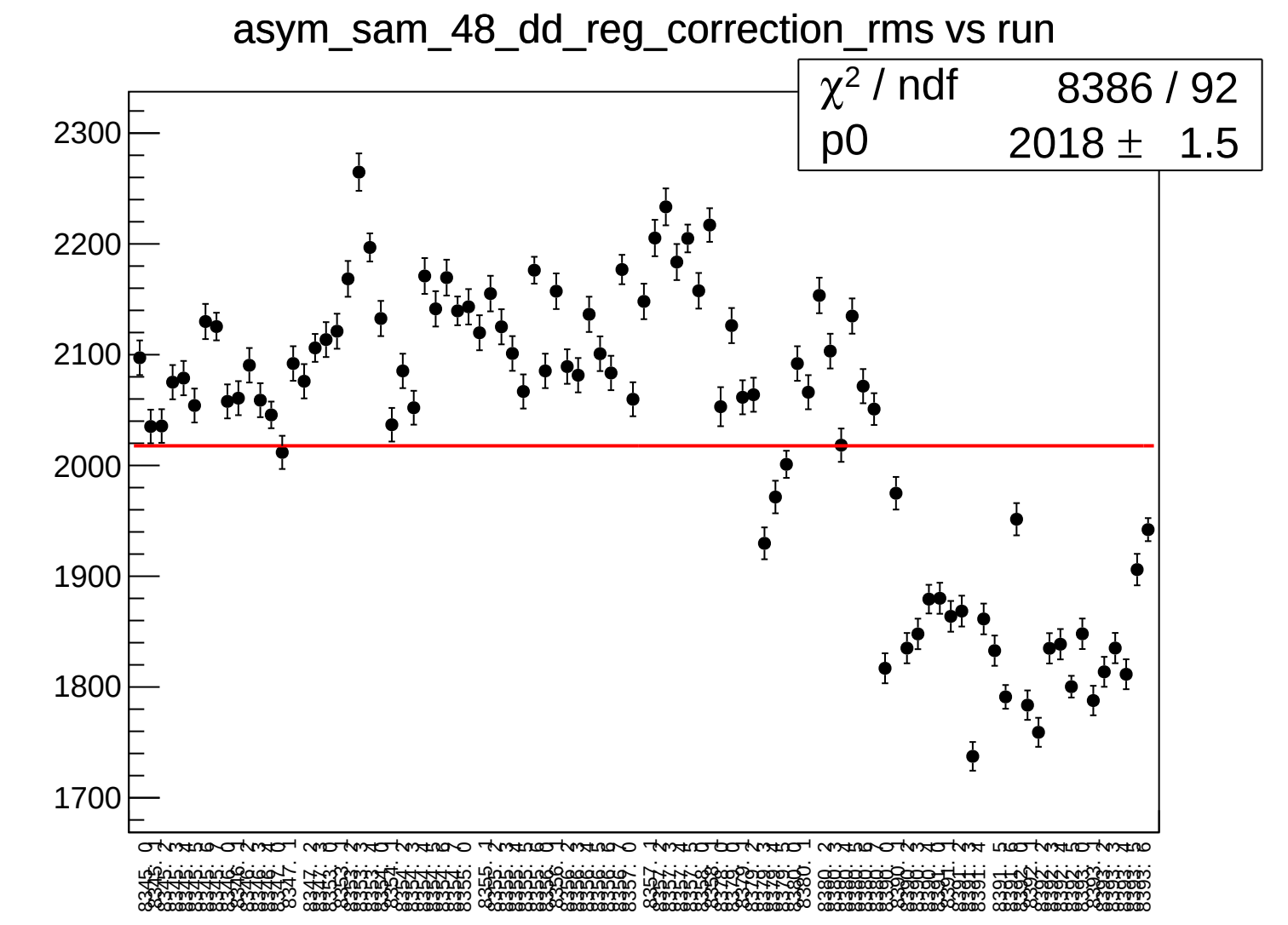

asym_sam_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.566e+05 / 92
p0 4.513e−11 ± 4.186e−14
0.3
0.25
0.2
0.15
0.1
0.05

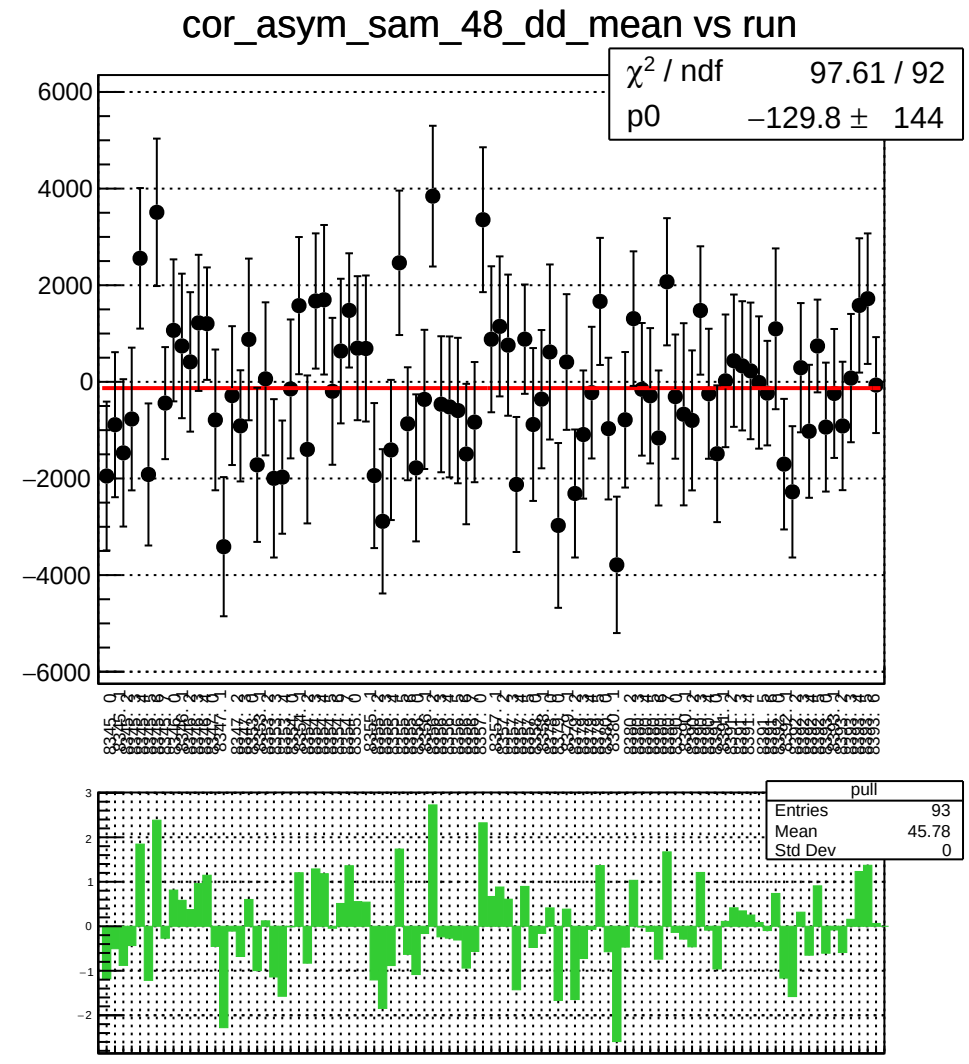

reg_asym_sam_48_dd_mean vs run
χ² / ndf 97.62 / 92
p0 −129.8 ± 144
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean 45.76
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.007495
Std Dev 1.024
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

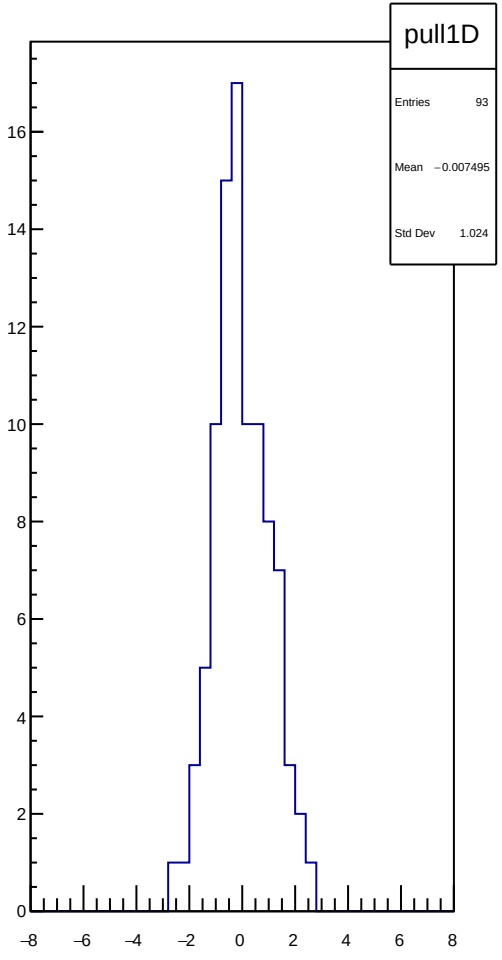

reg_asym_sam_48_dd_rms vs run
χ² / ndf 7069 / 92
p0 137.1 ± 0.1018
180
170
160
150
140
130
120

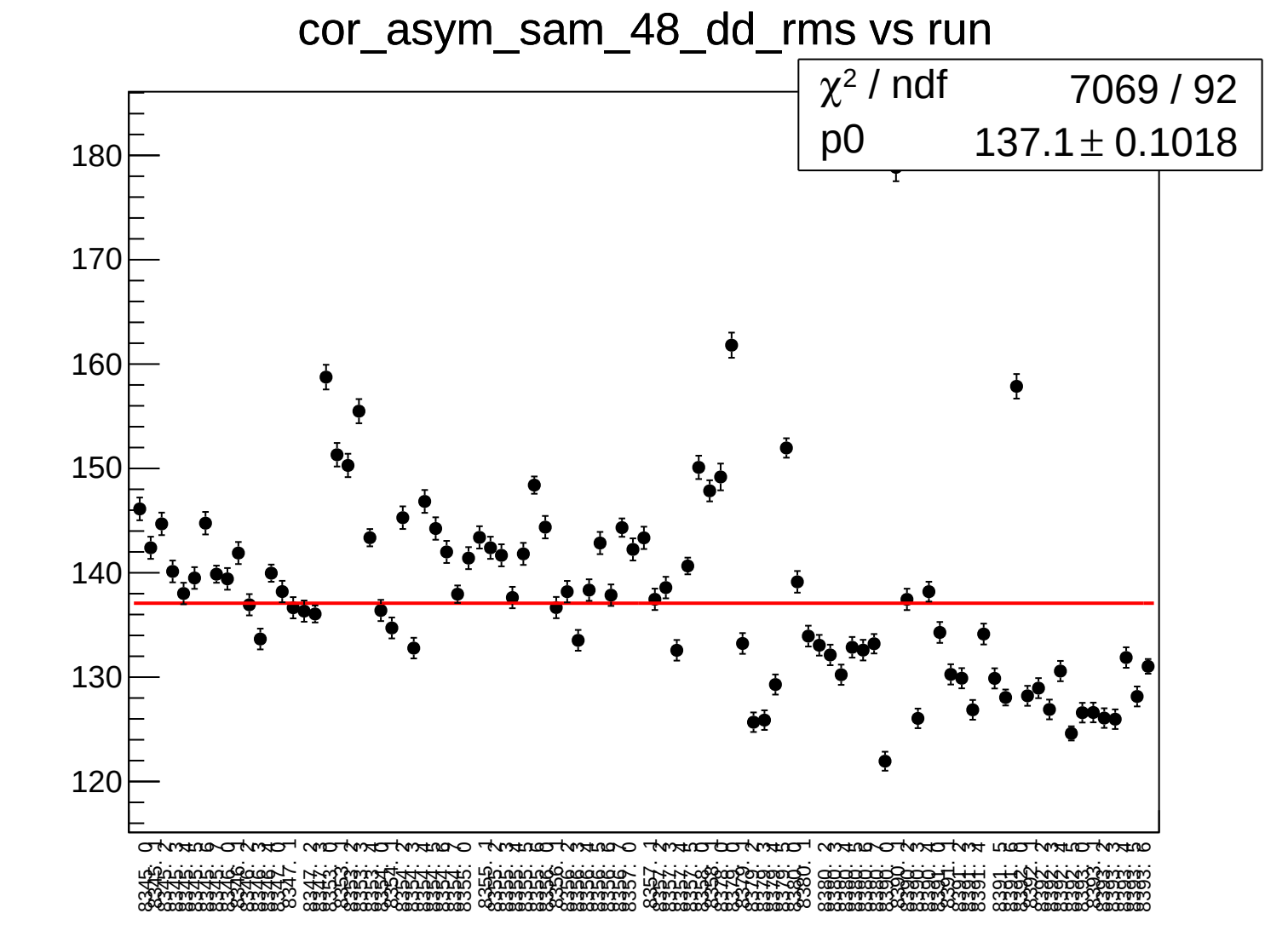

asym_sam_48_dd_reg_correction_mean vs run
χ² / ndf 115.8 / 92
p0 −6669 ± 2121
pull
Entries 93
Mean −623.3
Std Dev 0

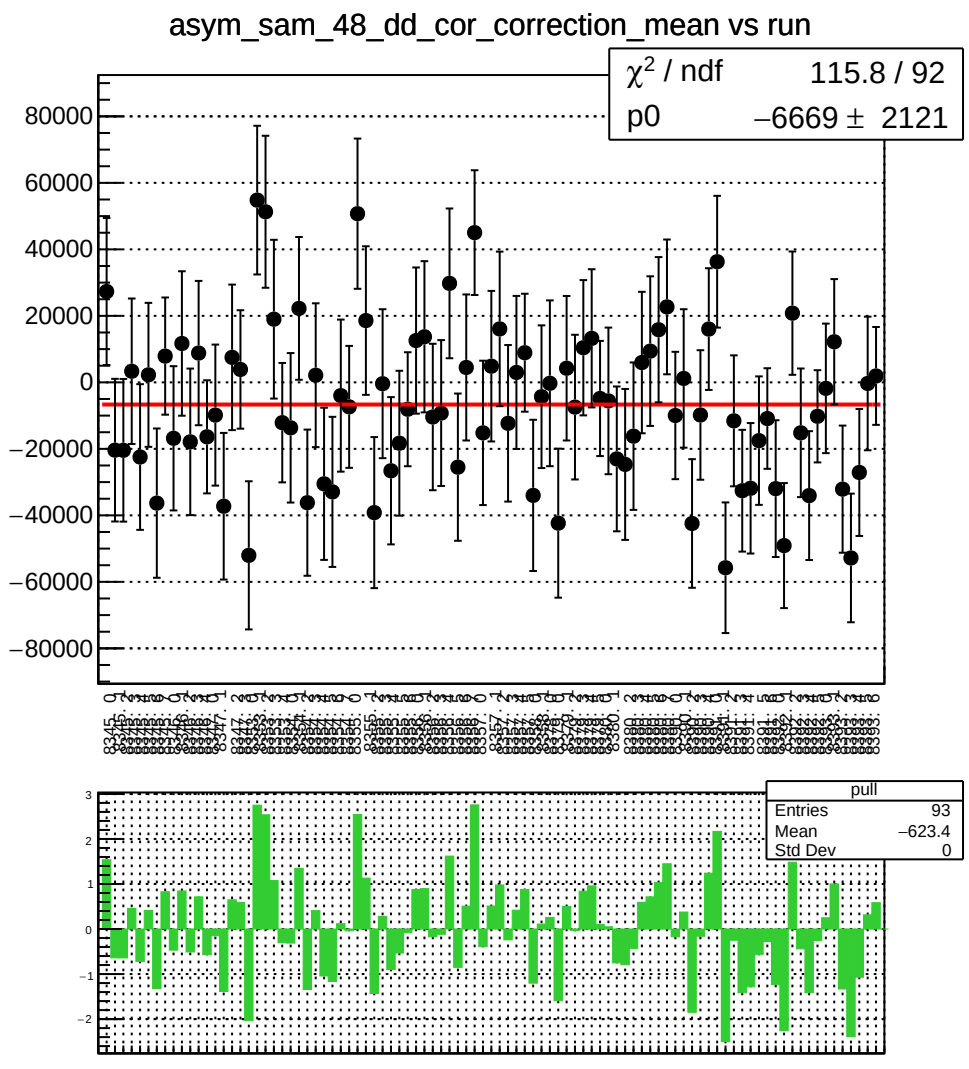

pull1D
Entries 93
Mean 0.007143
Std Dev 1.116

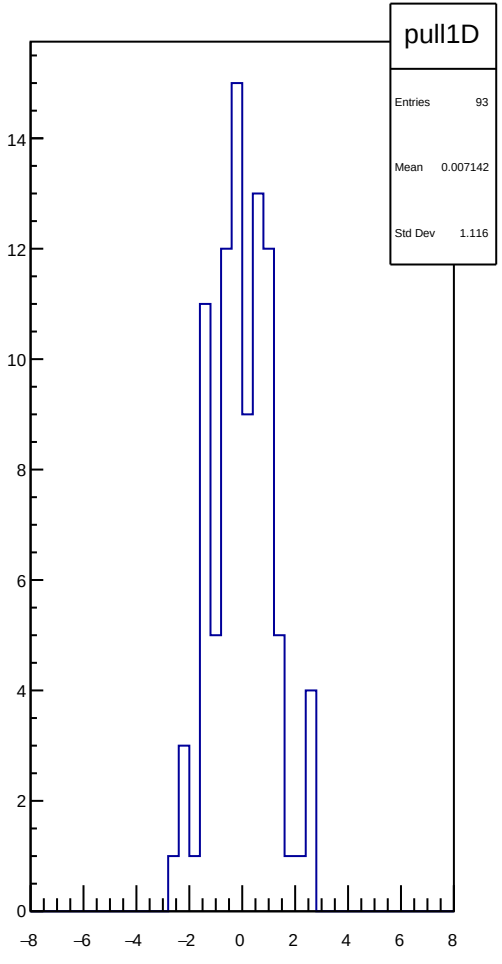

asym_sam_48_dd_reg_correction_rms vs run
χ² / ndf 8386 / 92
p0 2018 ± 1.5
2300
2200
2100
2000
1900
1800
1700

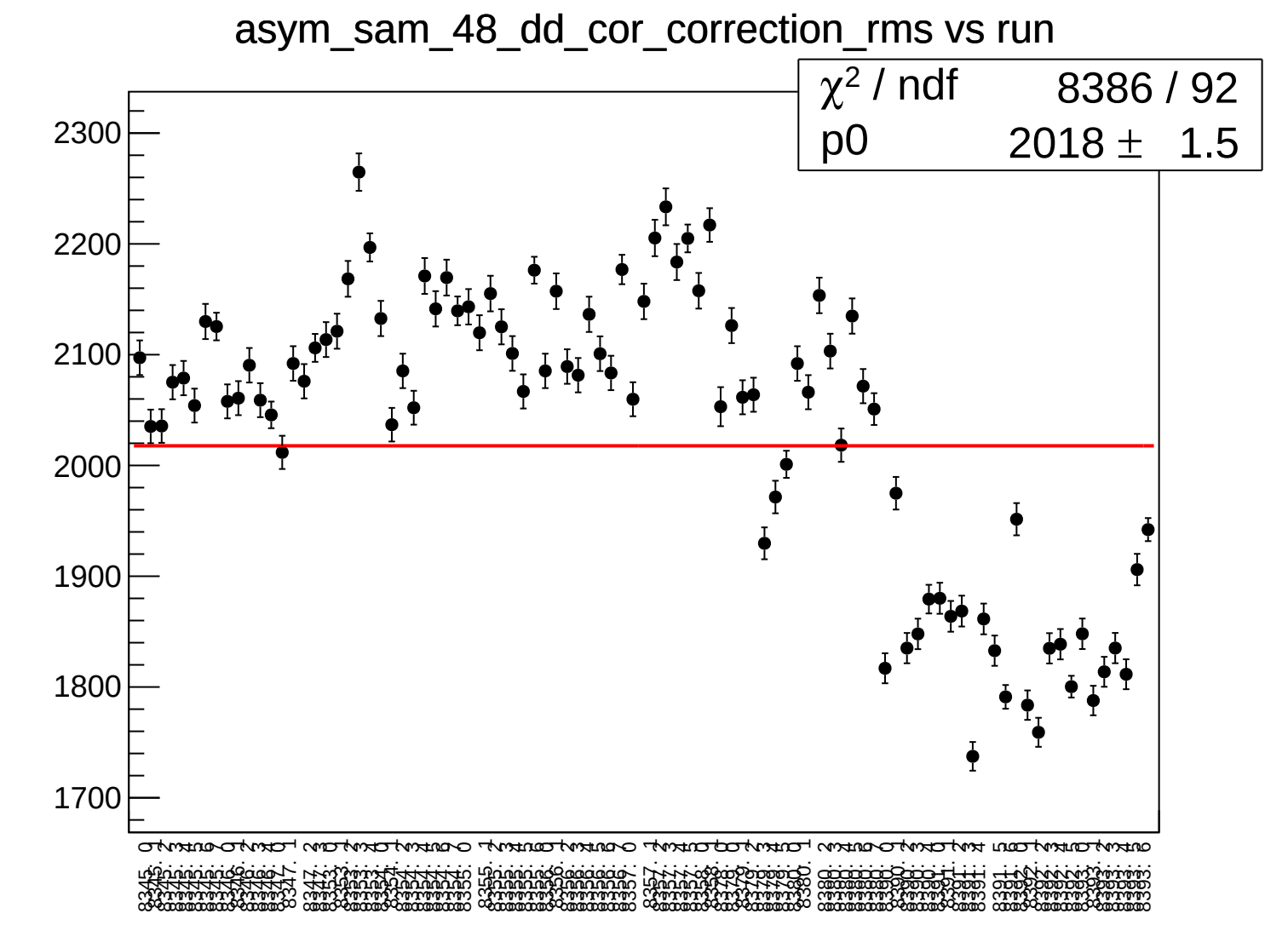

cor_asym_sam_48_dd_mean vs run
χ² / ndf 97.61 / 92
p0 −129.8 ± 144
pull
Entries 93
Mean 45.78
Std Dev 0

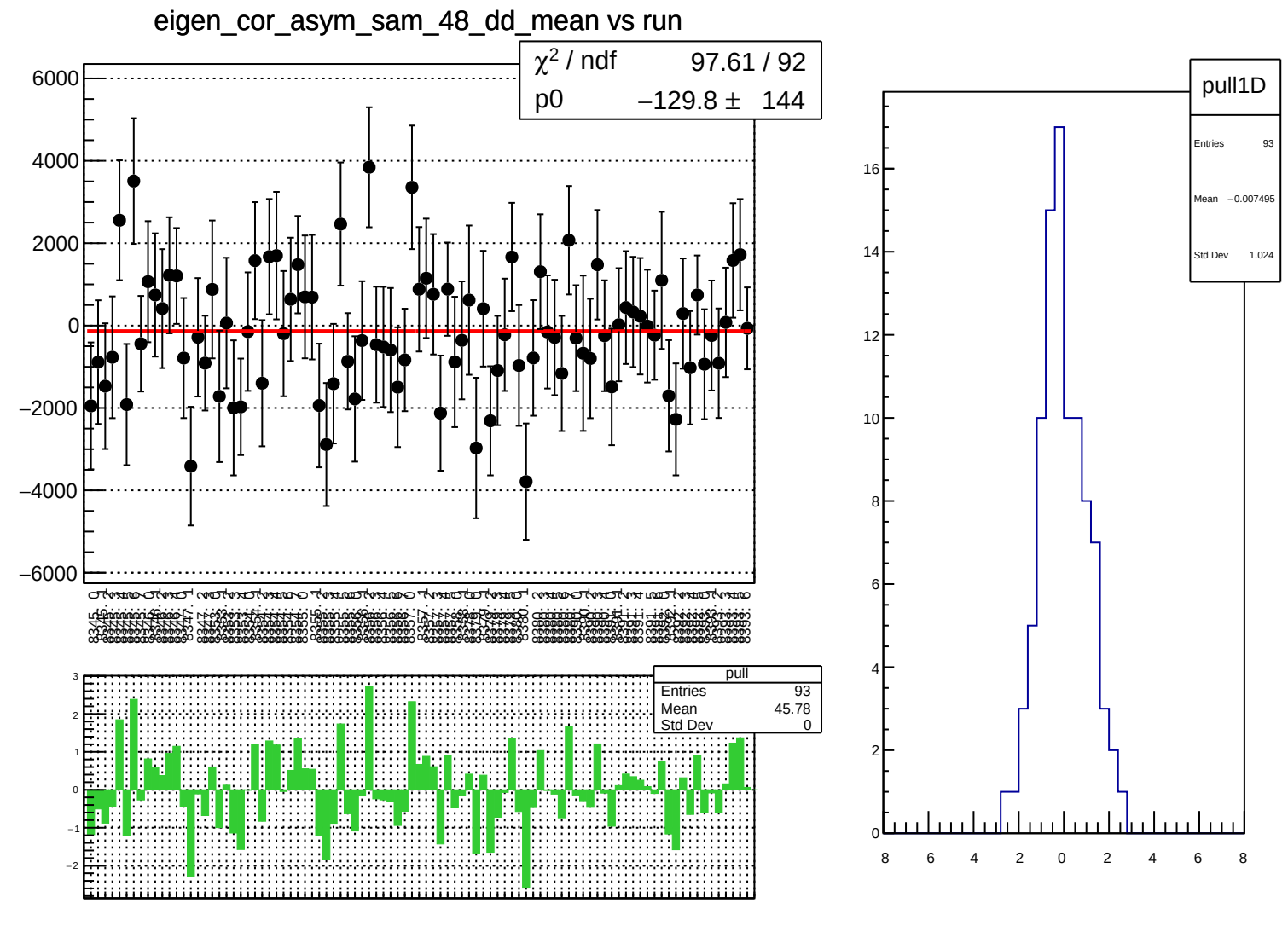

pull1D
Entries 93
Mean −0.007495
Std Dev 1.024

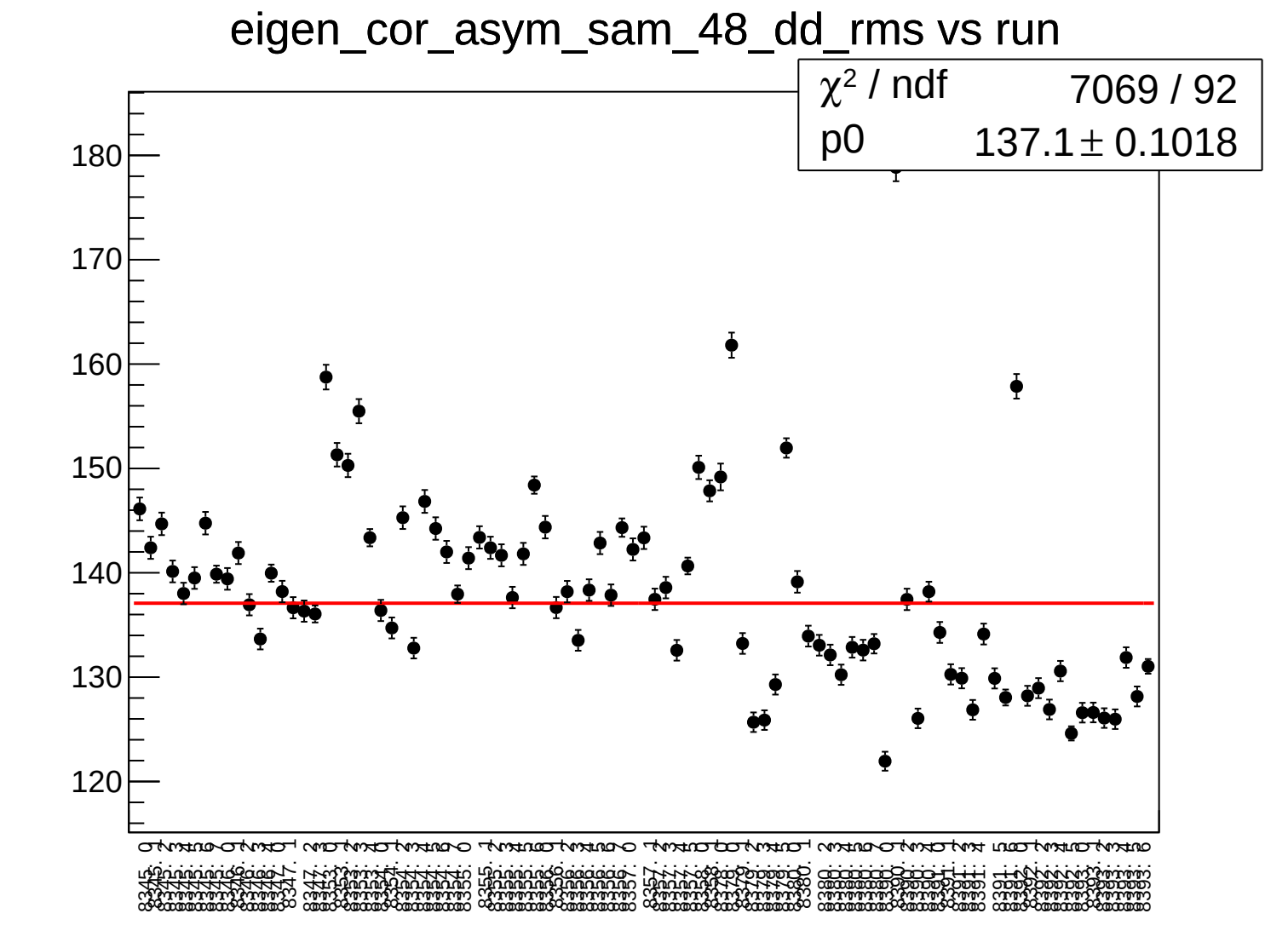

cor_asym_sam_48_dd_rms vs run
χ² / ndf 7069 / 92
p0 137.1 ± 0.1018
180
170
160
150
140
130
120

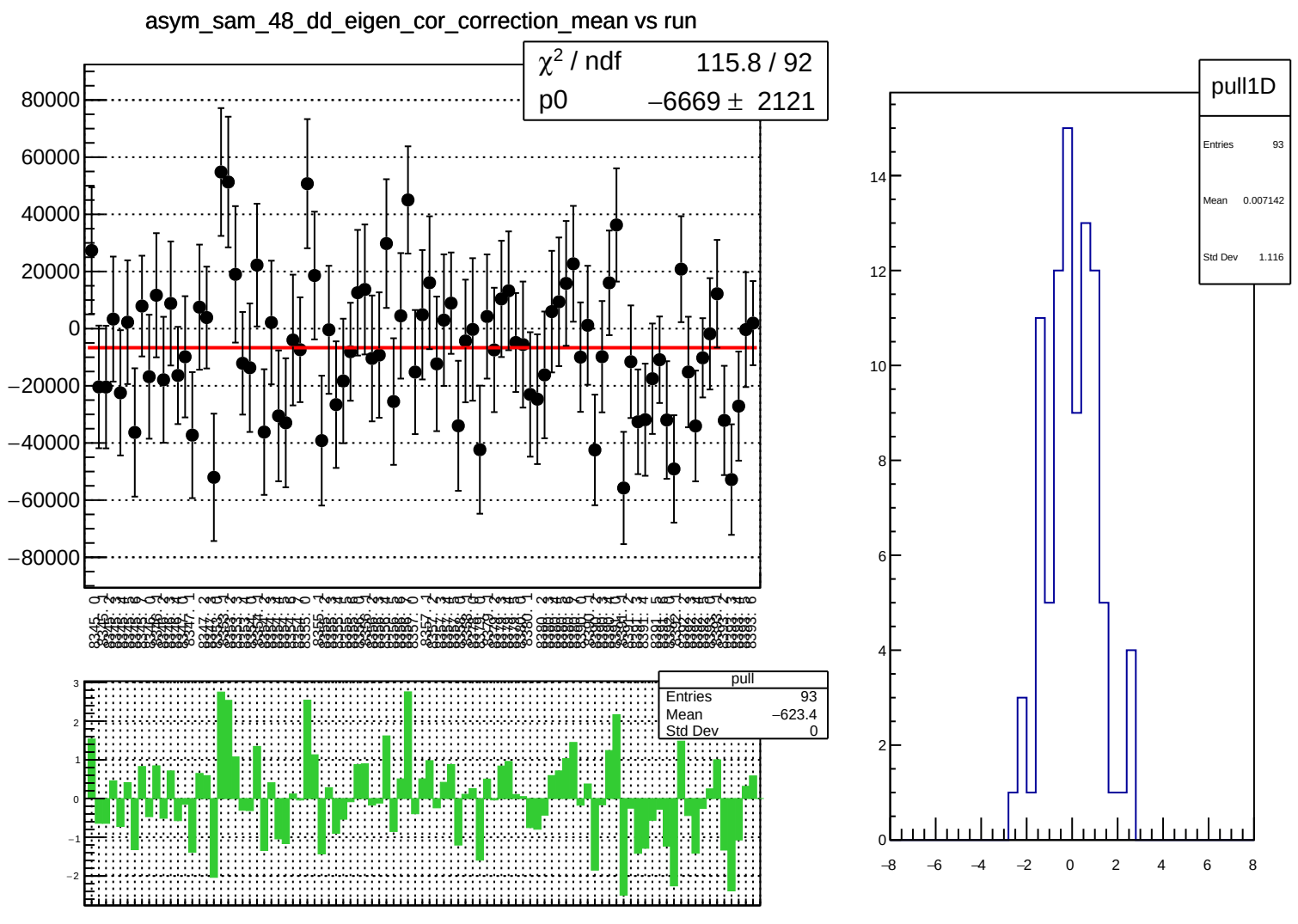

asym_sam_48_dd_cor_correction_mean vs run
χ² / ndf 115.8 / 92
p0 −6669 ± 2121
pull
Entries 93
Mean −623.4
Std Dev 0

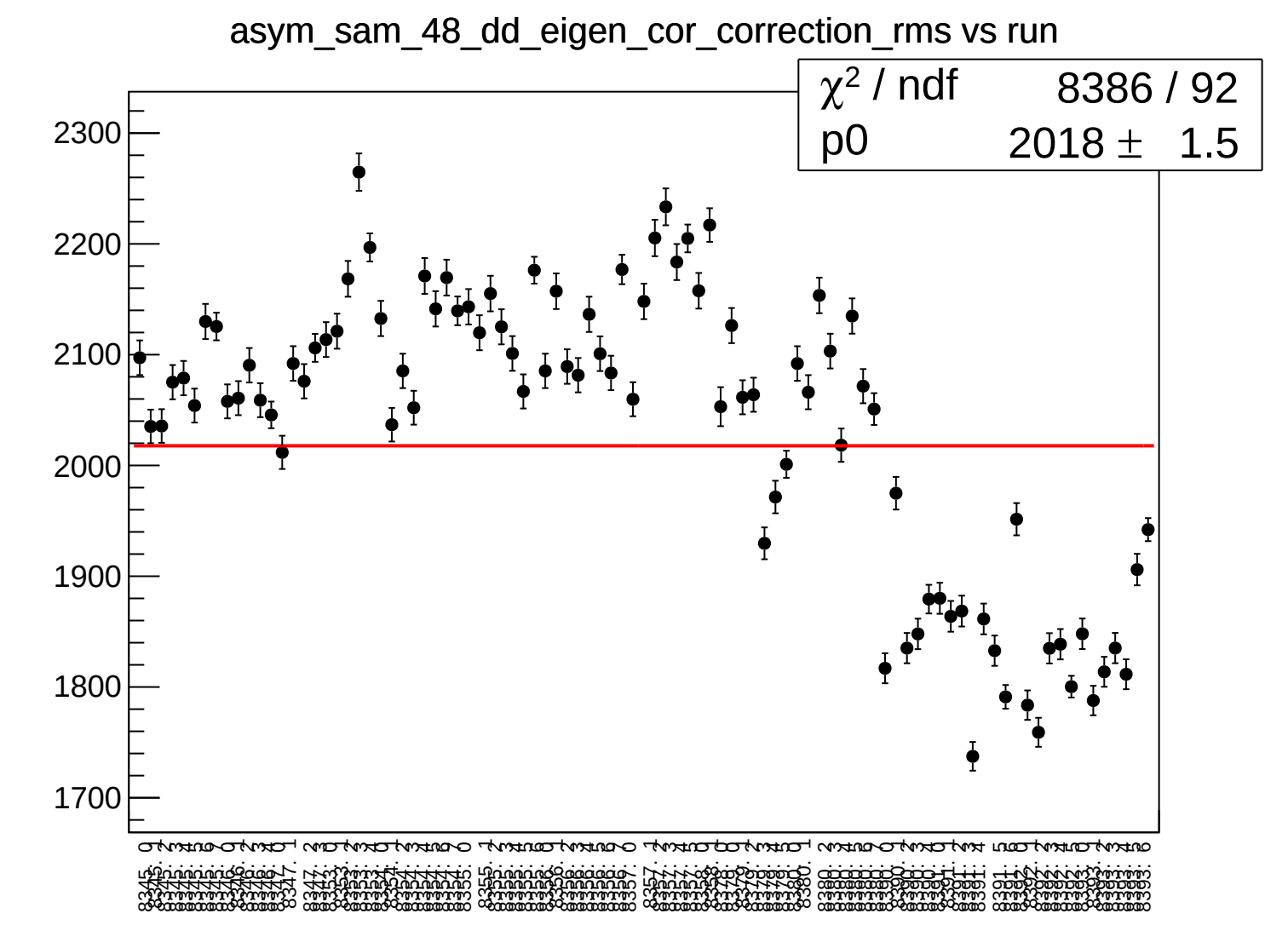

pull1D
Entries 93
Mean 0.007142
Std Dev 1.116

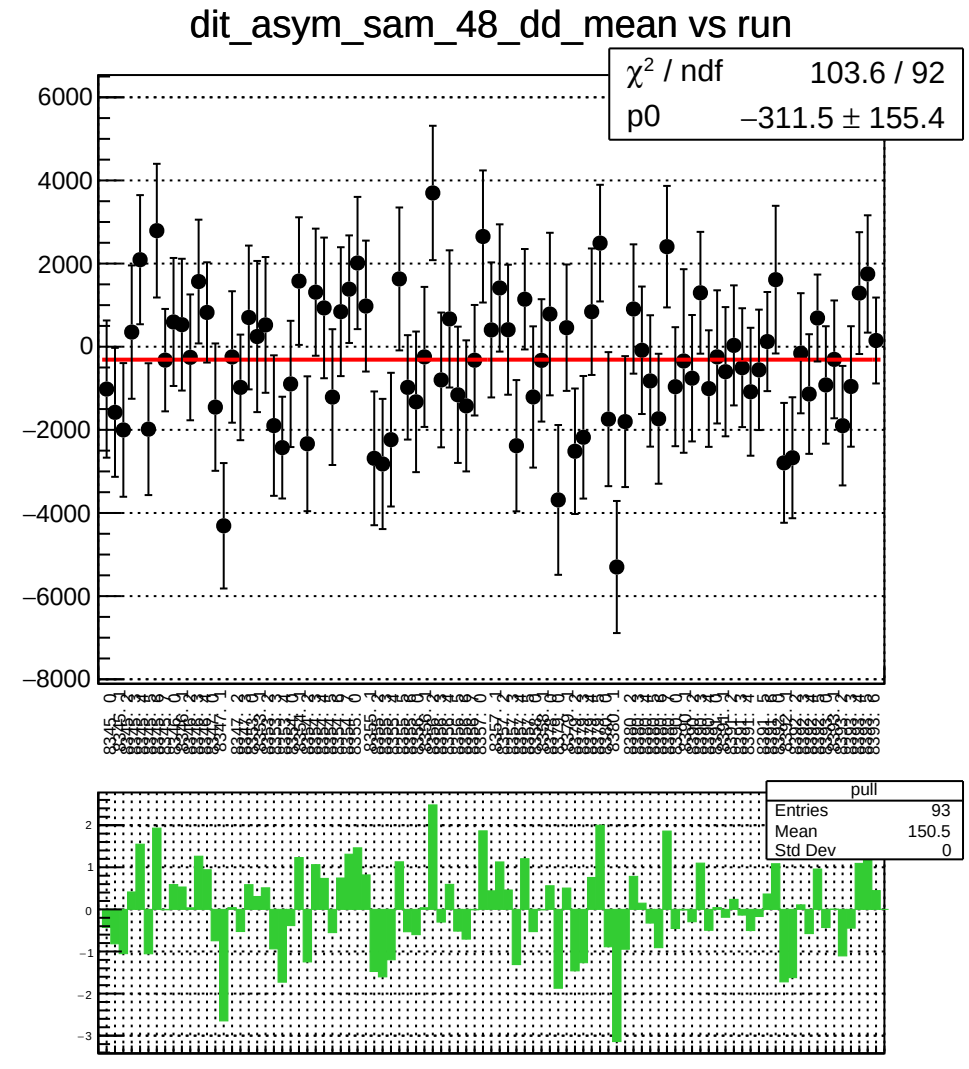

asym_sam_48_dd_cor_correction_rms vs run
χ² / ndf 8386 / 92
p0 2018 ± 1.5
2300
2200
2100
2000
1900
1800
1700

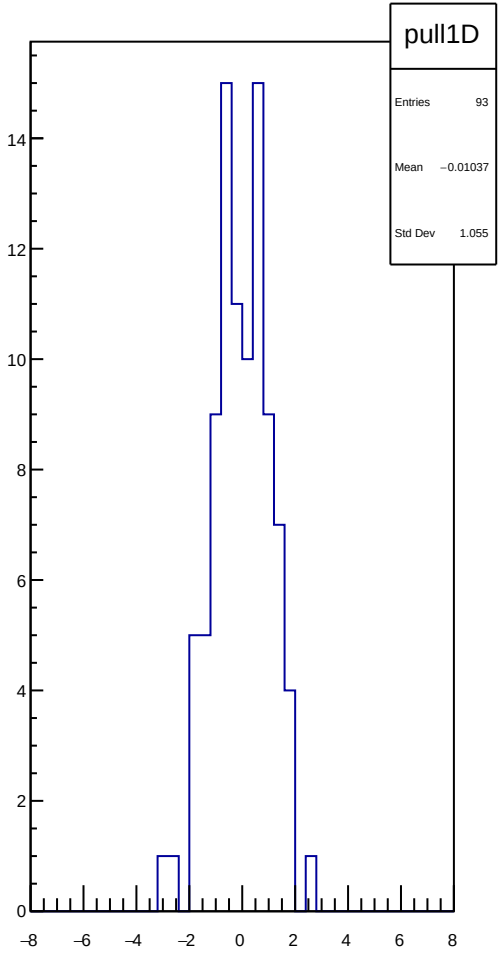

eigen_cor_asym_sam_48_dd_mean vs run
χ² / ndf 97.61 / 92
p0 −129.8 ± 144
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean 45.78
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.007495
Std Dev 1.024
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

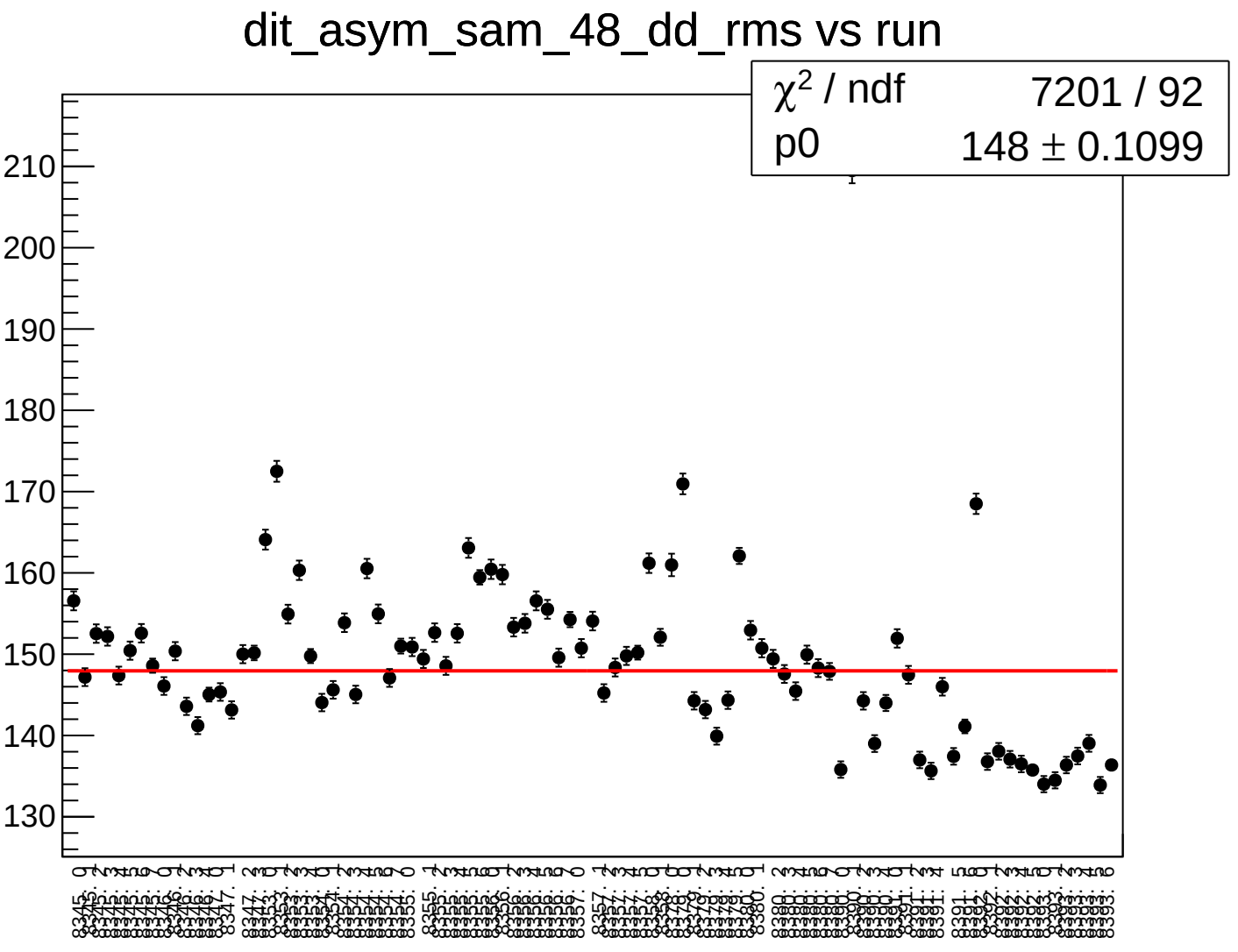

eigen_cor_asym_sam_48_dd_rms vs run
χ² / ndf 7069 / 92
p0 137.1 ± 0.1018
180
170
160
150
140
130
120

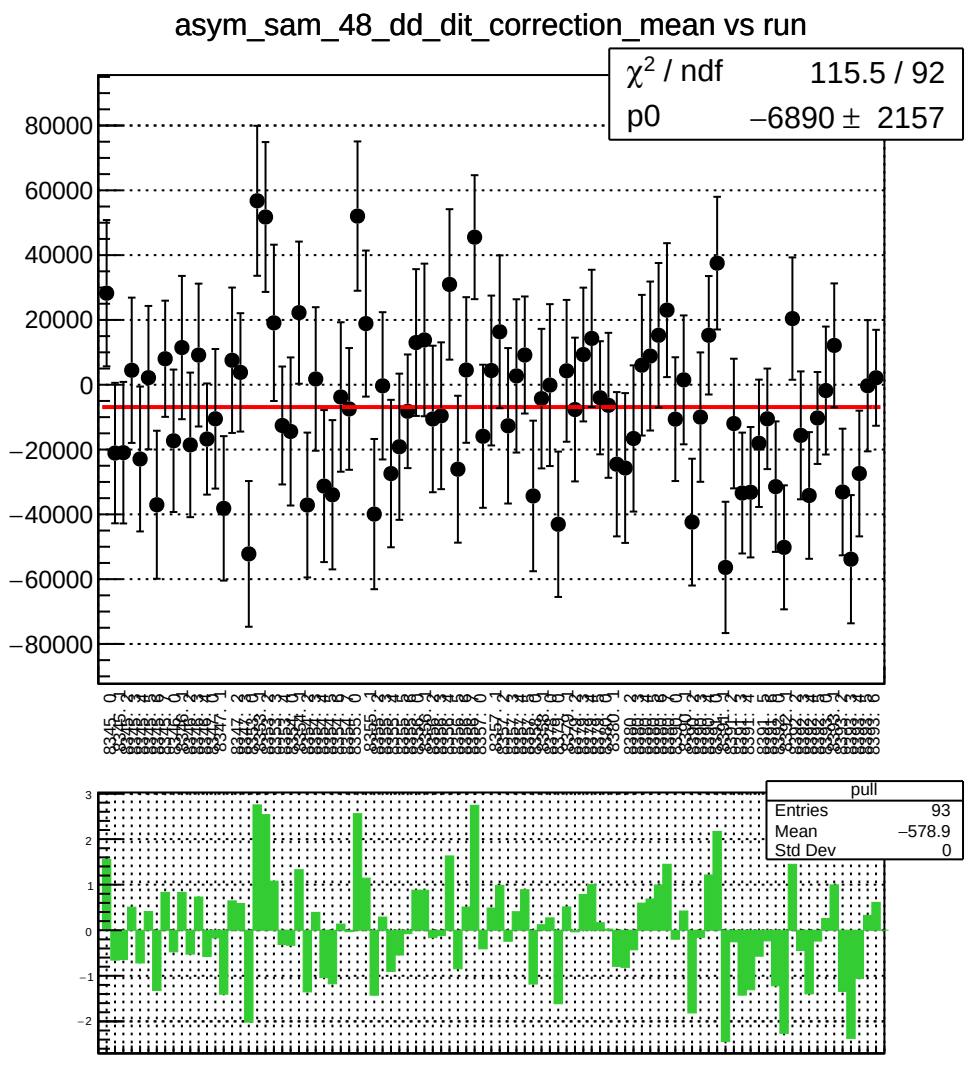

asym_sam_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 115.8 / 92
p0 −6669 ± 2121
pull
Entries 93
Mean −623.4
Std Dev 0
pull1D
Entries 93
Mean 0.007142
Std Dev 1.116

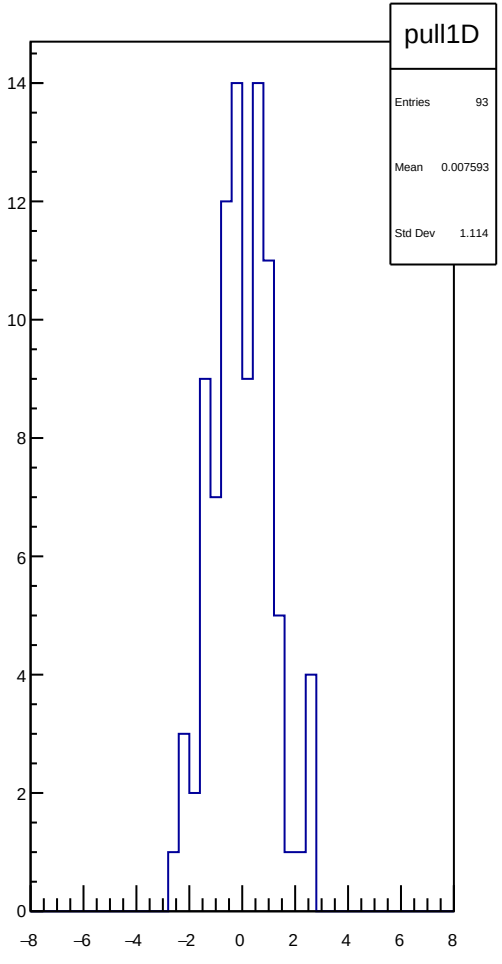

asym_sam_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 8386 / 92
p0 2018 ± 1.5
2300
2200
2100
2000
1900
1800
1700

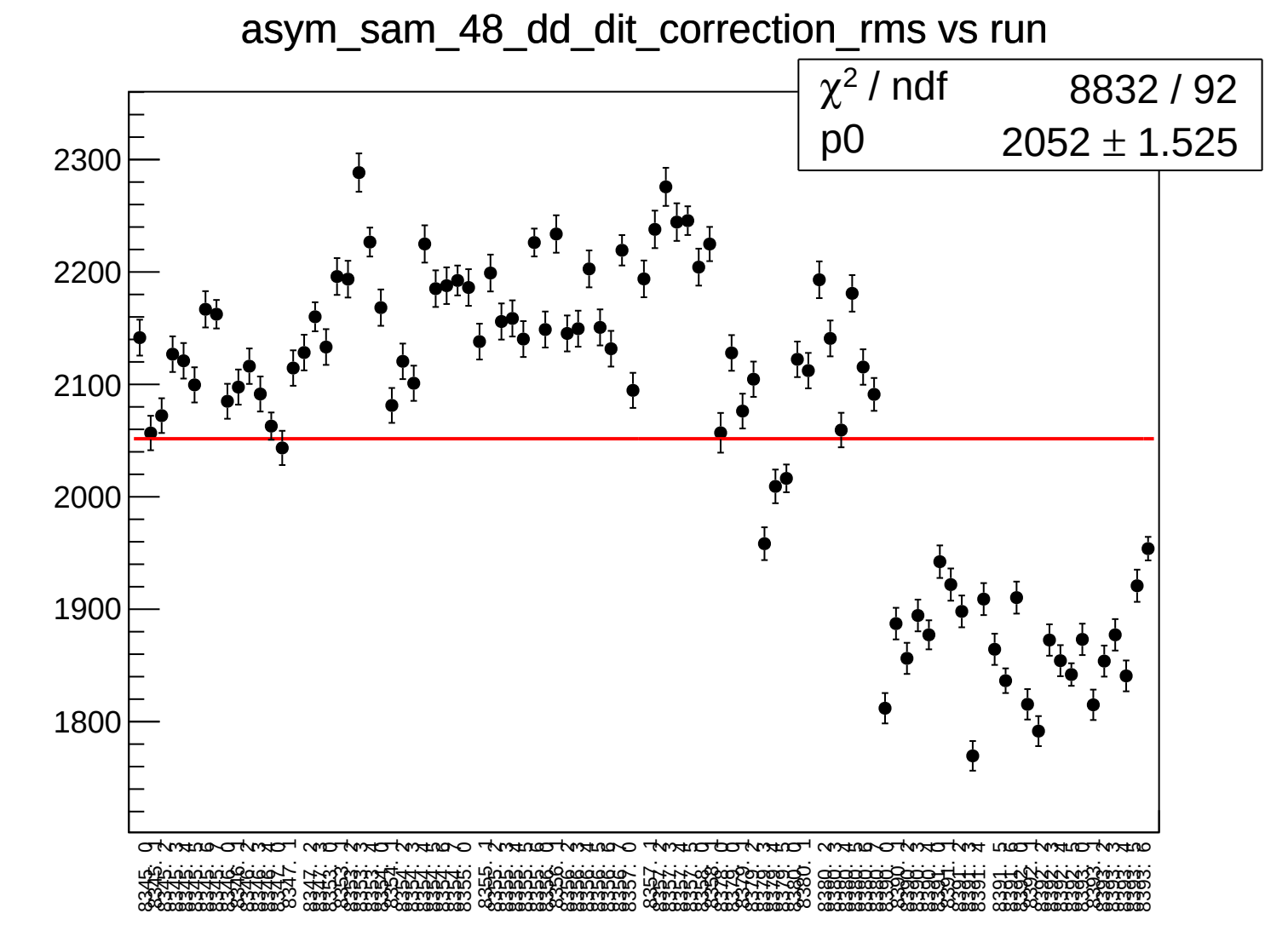

dit_asym_sam_48_dd_mean vs run
χ² / ndf 103.6 / 92
p0 −311.5 ± 155.4
pull
Entries 93
Mean 150.5
Std Dev 0

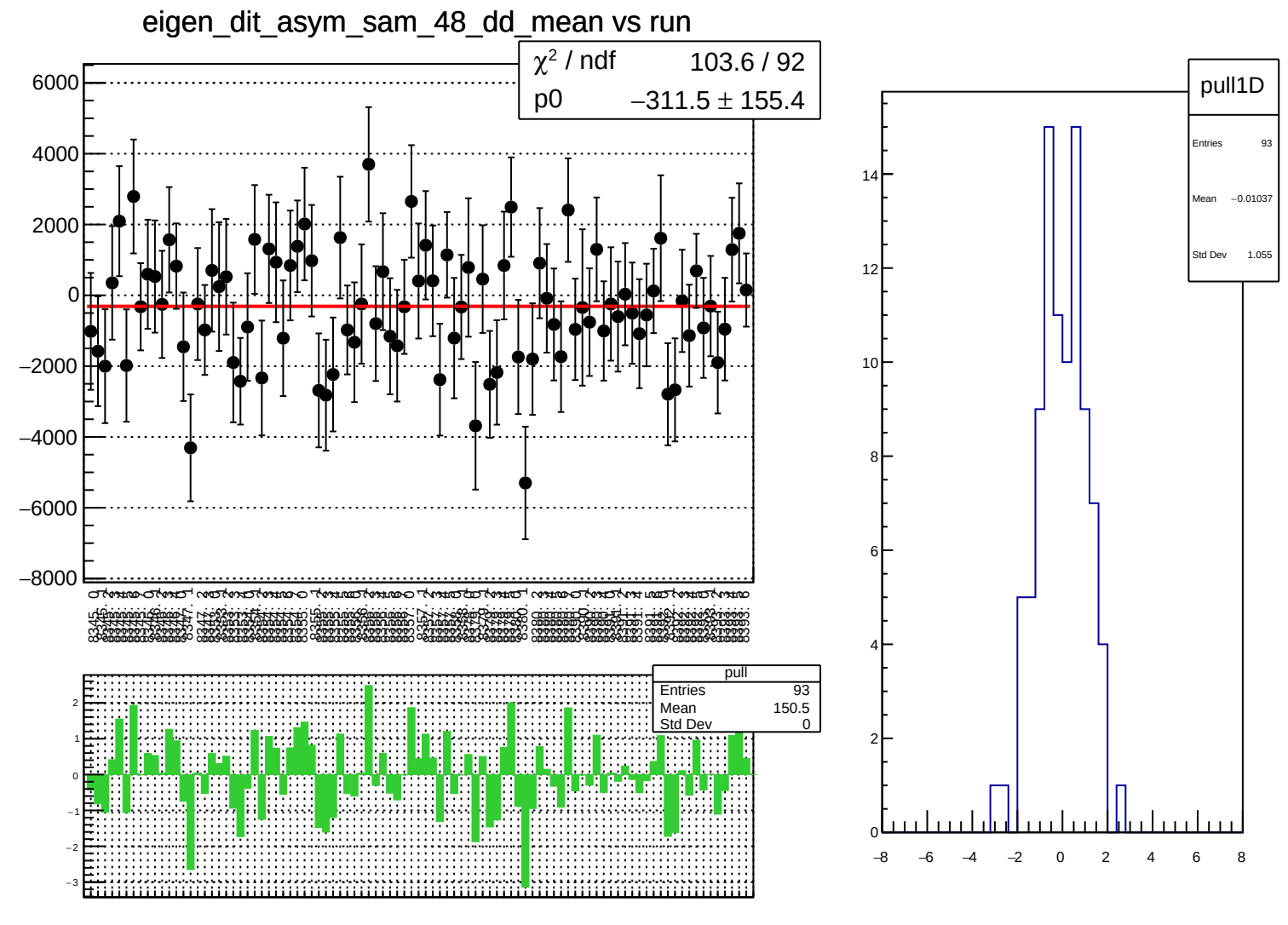

pull1D
Entries 93
Mean −0.01037
Std Dev 1.055

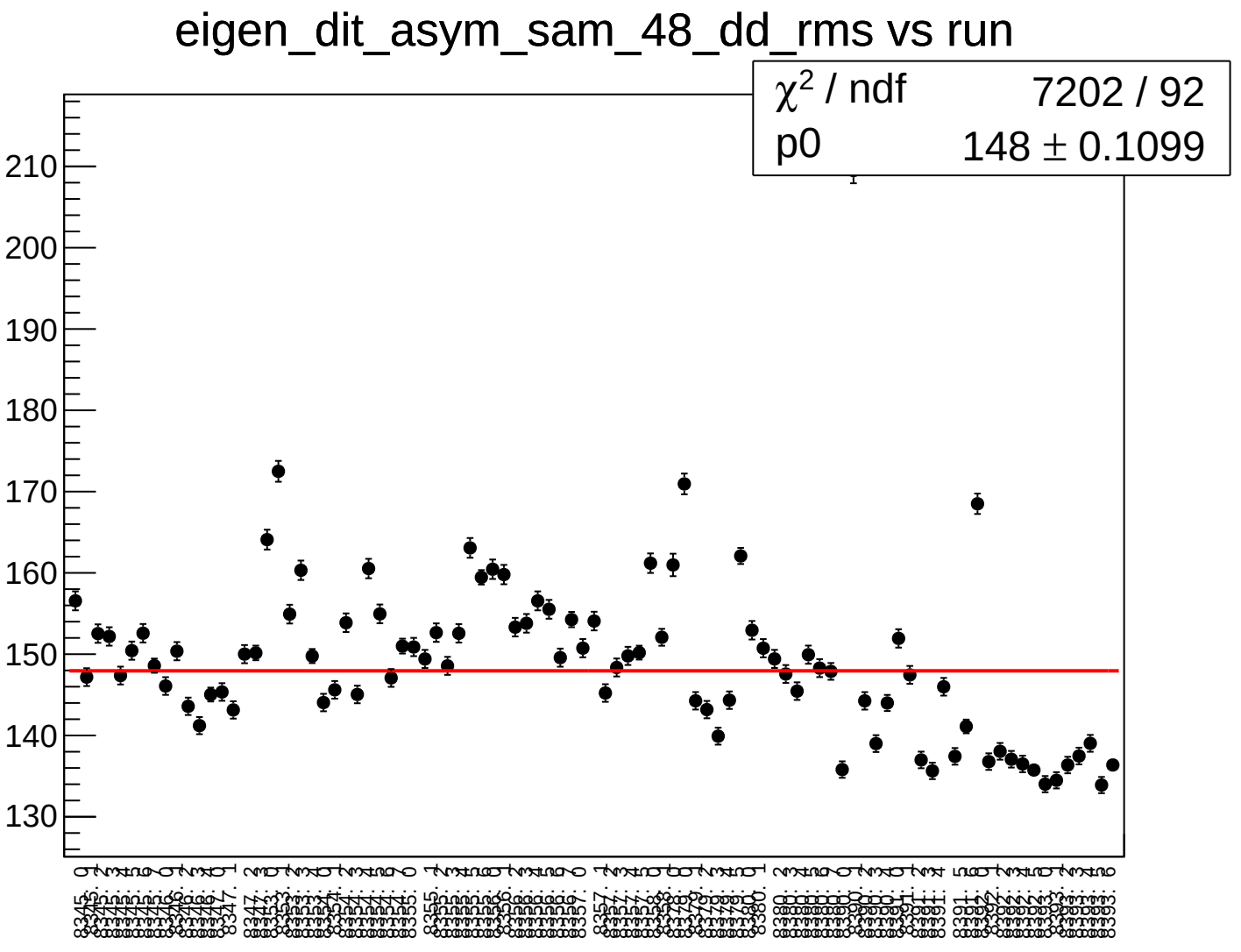

dit_asym_sam_48_dd_rms vs run
χ² / ndf 7201 / 92
p0 148 ± 0.1099
210
200
190
180
170
160
150
140
130

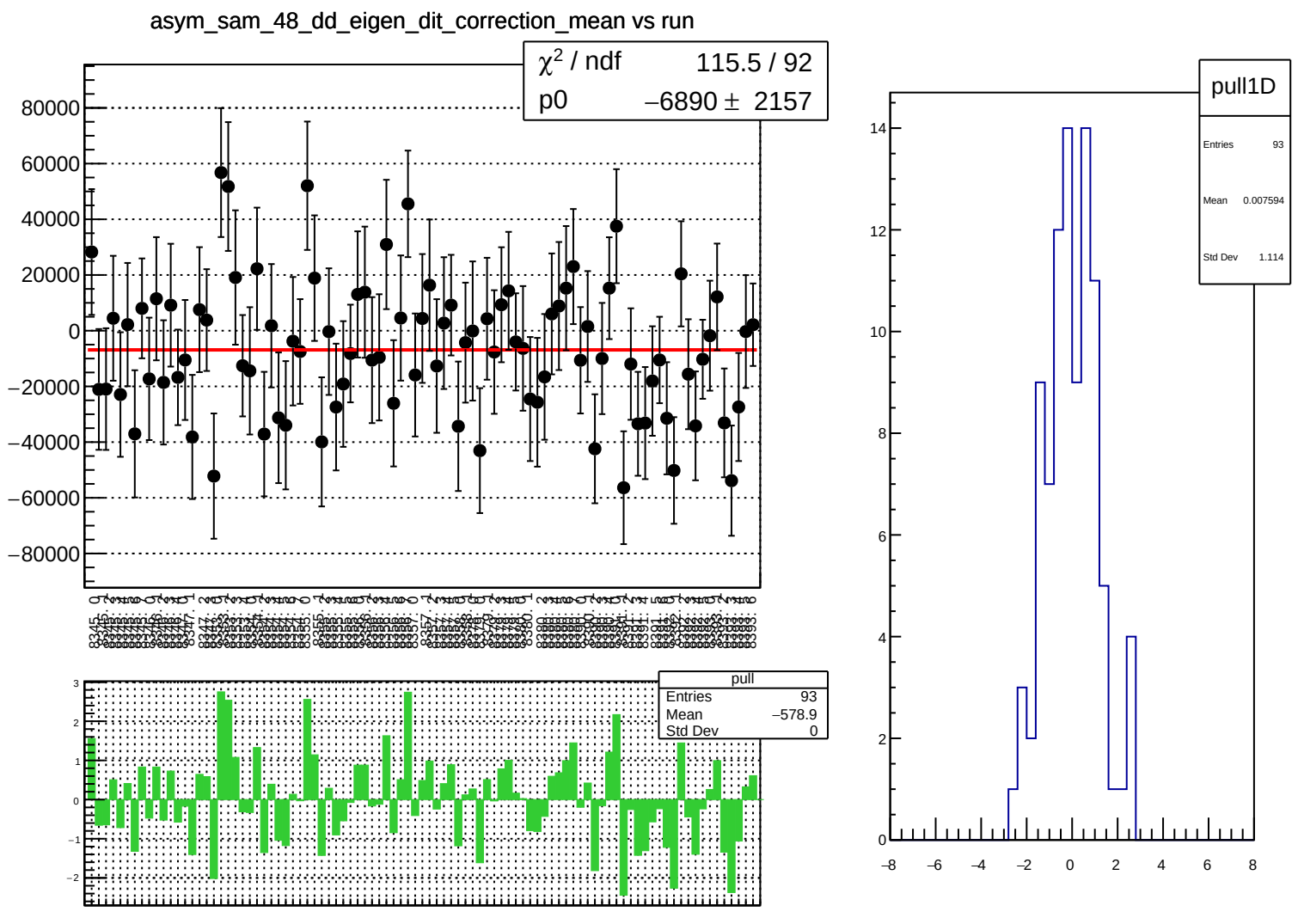

asym_sam_48_dd_dit_correction_mean vs run
χ² / ndf 115.5 / 92
p0 −6890 ± 2157
pull
Entries 93
Mean −578.9
Std Dev 0

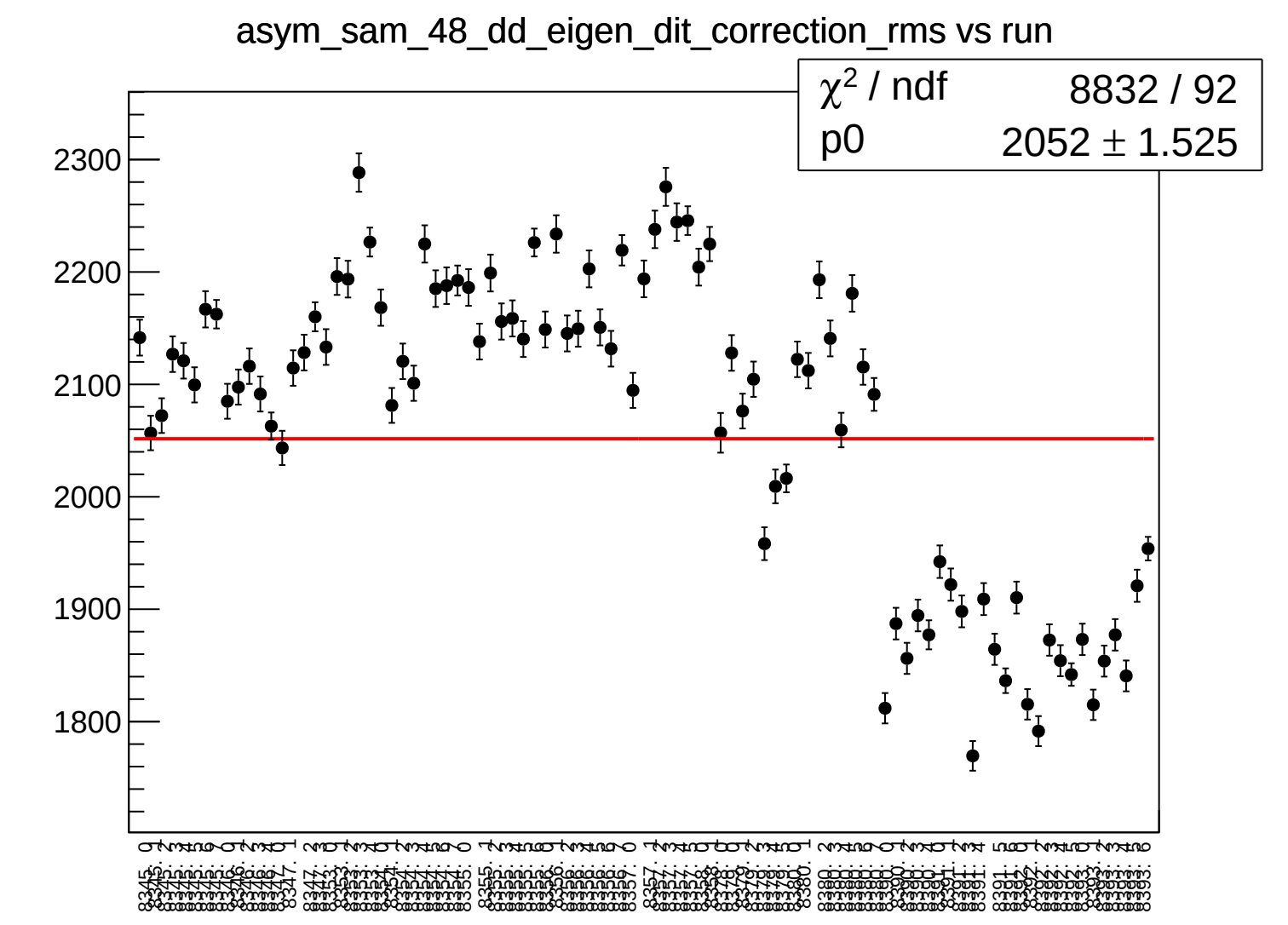

pull1D
Entries 93
Mean 0.007593
Std Dev 1.114

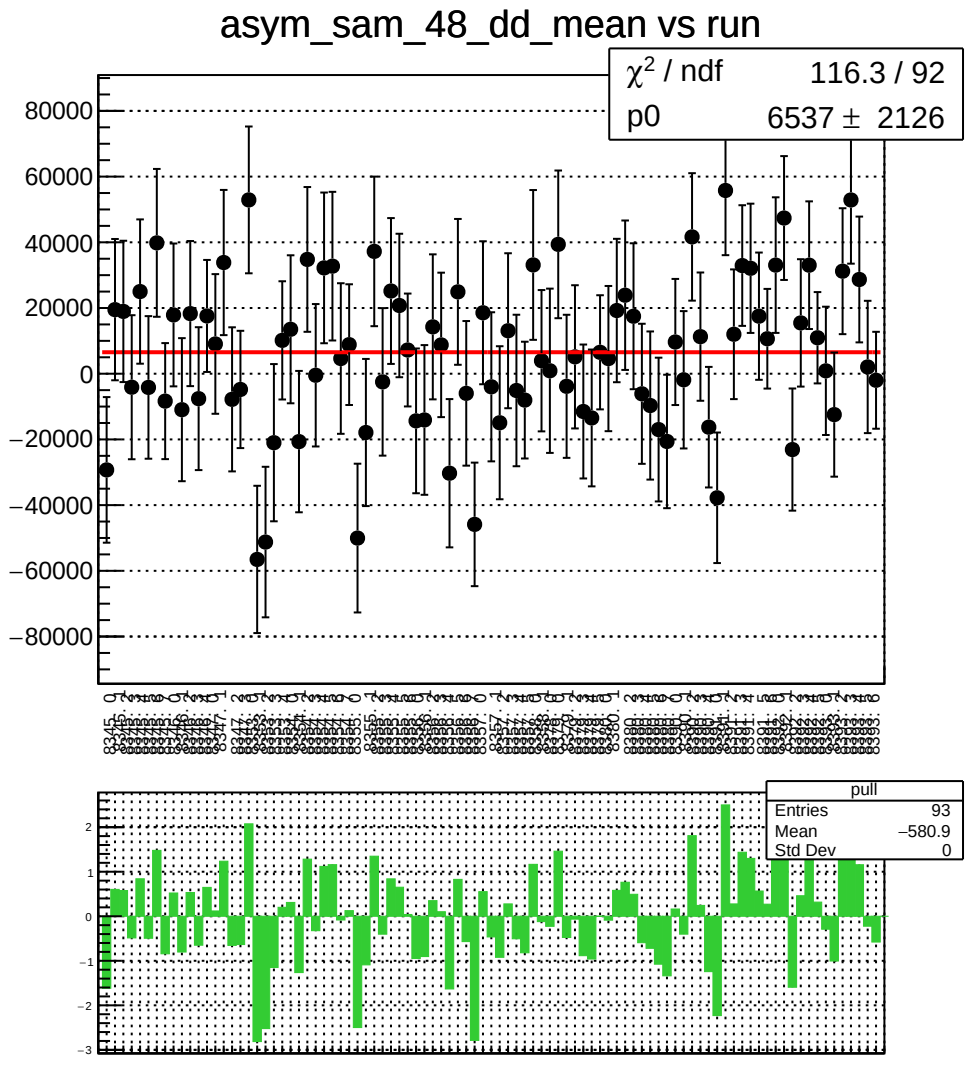

asym_sam_48_dd_dit_correction_rms vs run
χ² / ndf 8832 / 92
p0 2052 ± 1.525
2300
2200
2100
2000
1900
1800

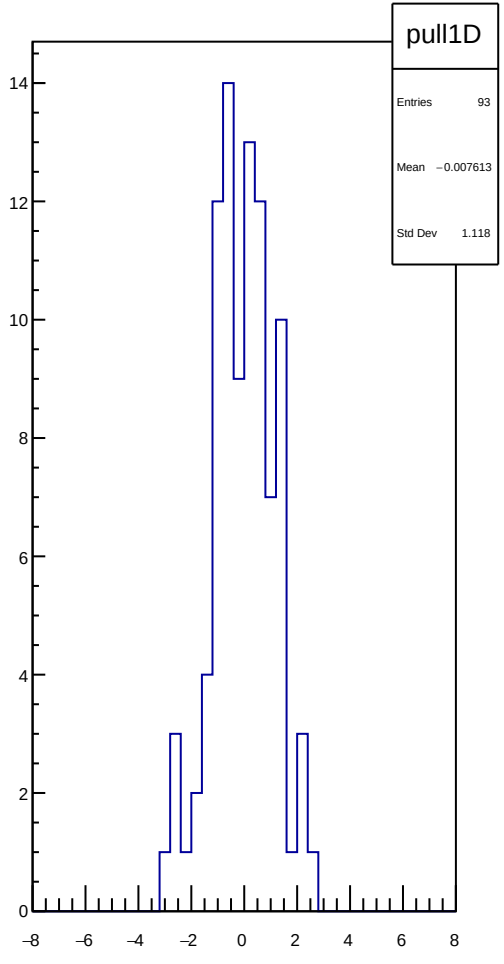

eigen_dit_asym_sam_48_dd_mean vs run
χ² / ndf 103.6 / 92
p0 −311.5 ± 155.4
pull
Entries 93
Mean 150.5
Std Dev 0
pull1D
Entries 93
Mean −0.01037
Std Dev 1.055

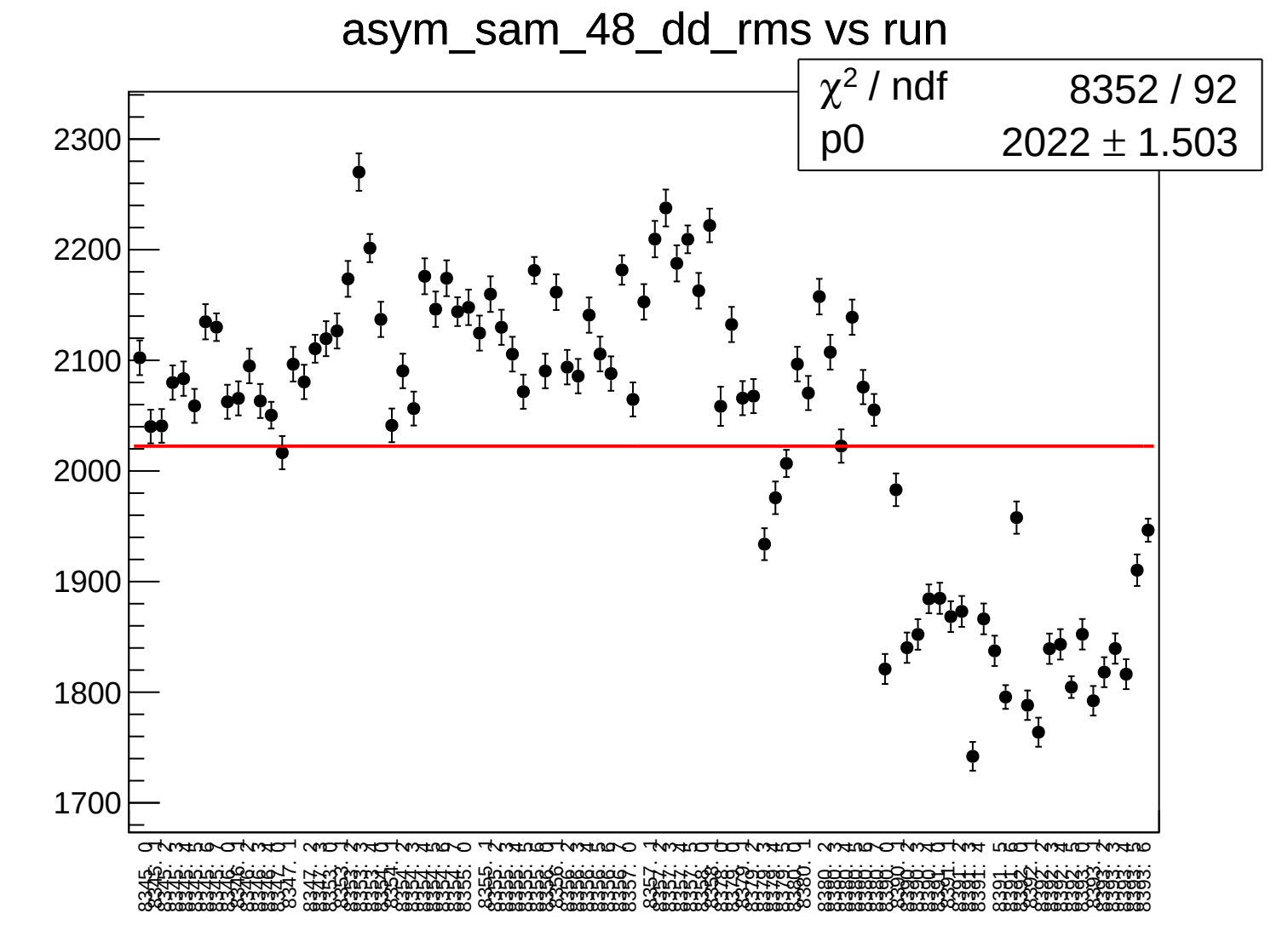

eigen_dit_asym_sam_48_dd_rms vs run
χ² / ndf 7202 / 92
p0 148 ± 0.1099
210
200
190
180
170
160
150
140
130

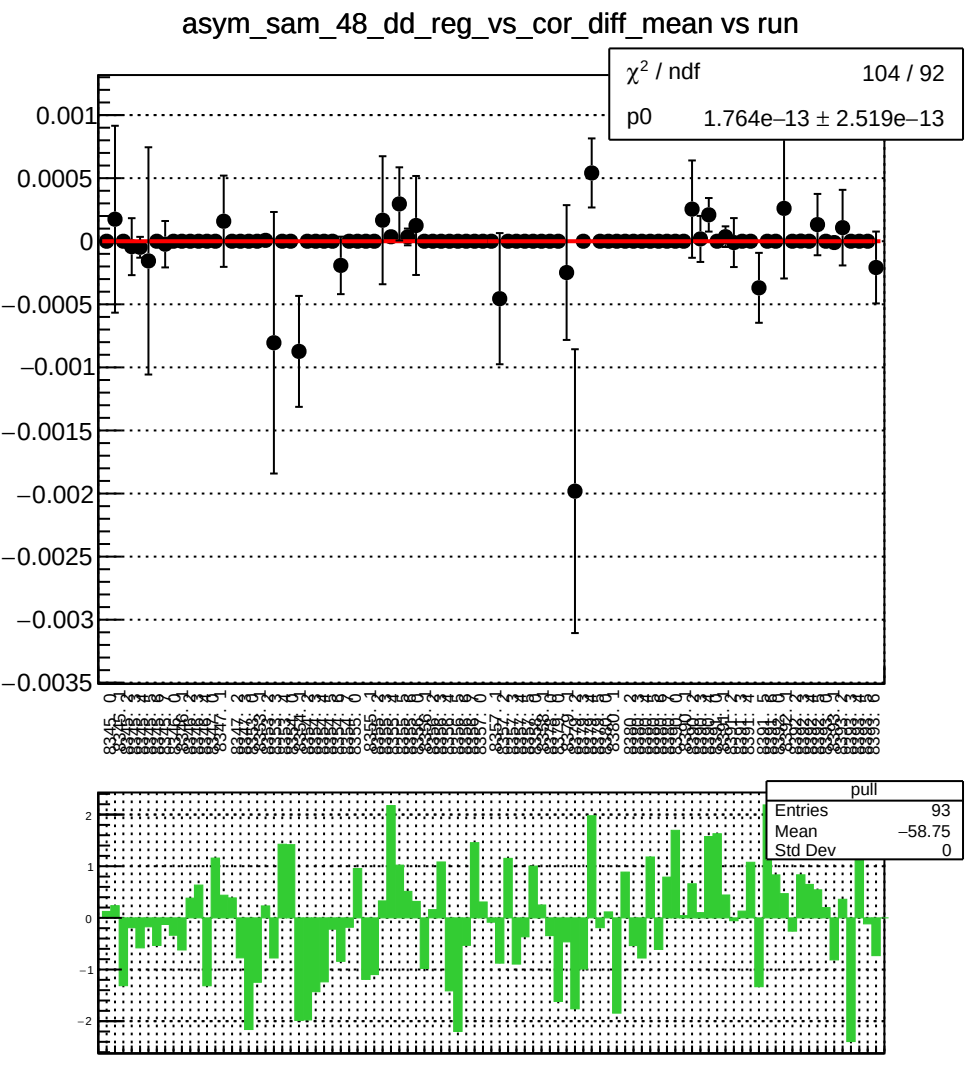

asym_sam_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 115.5 / 92
p0 −6890 ± 2157
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean −578.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.007594
Std Dev 1.114
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

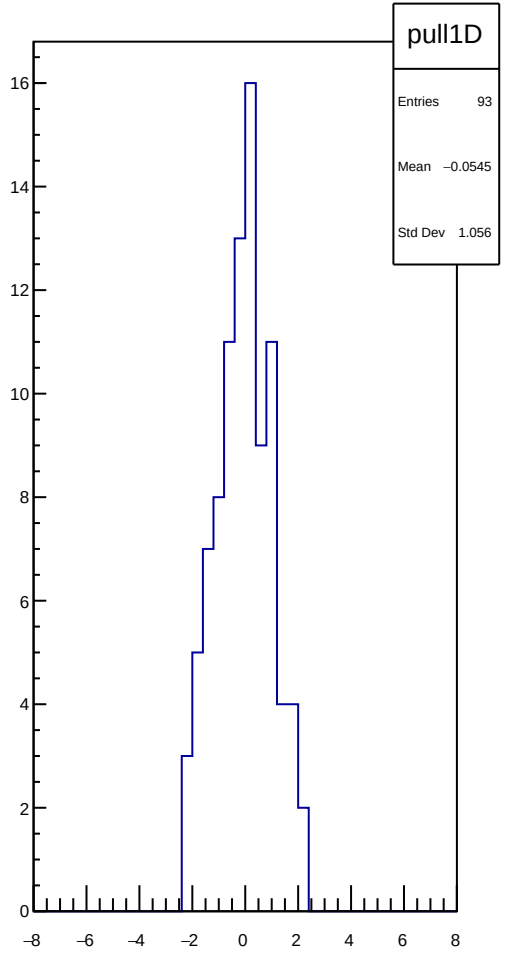

asym_sam_48_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 8832 / 92
p0 2052 ± 1.525
2300
2200
2100
2000
1900
1800

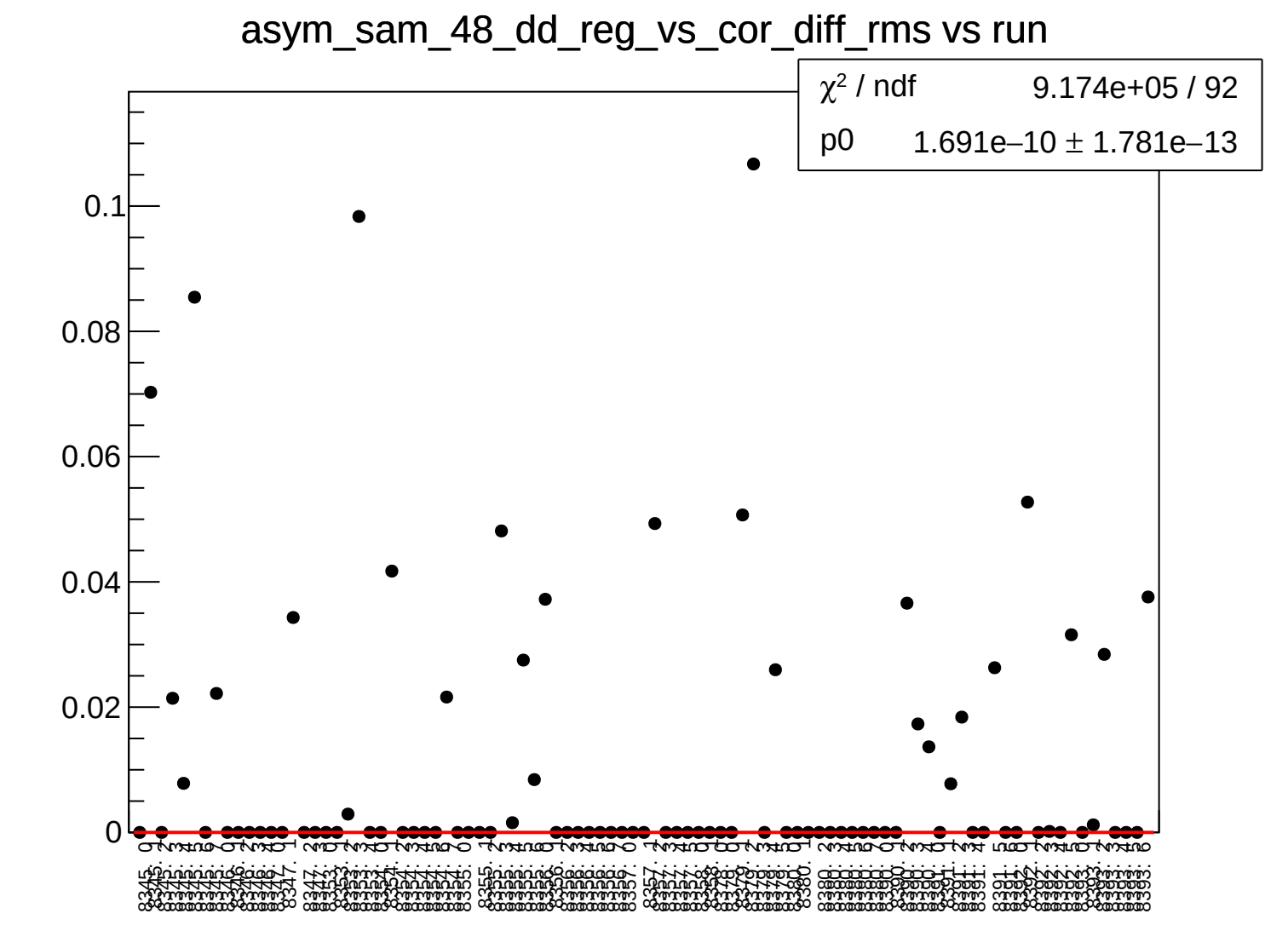

asym_sam_48_dd_mean vs run
χ² / ndf 116.3 / 92
p0 6537 ± 2126
pull
Entries 93
Mean −580.9
Std Dev 0

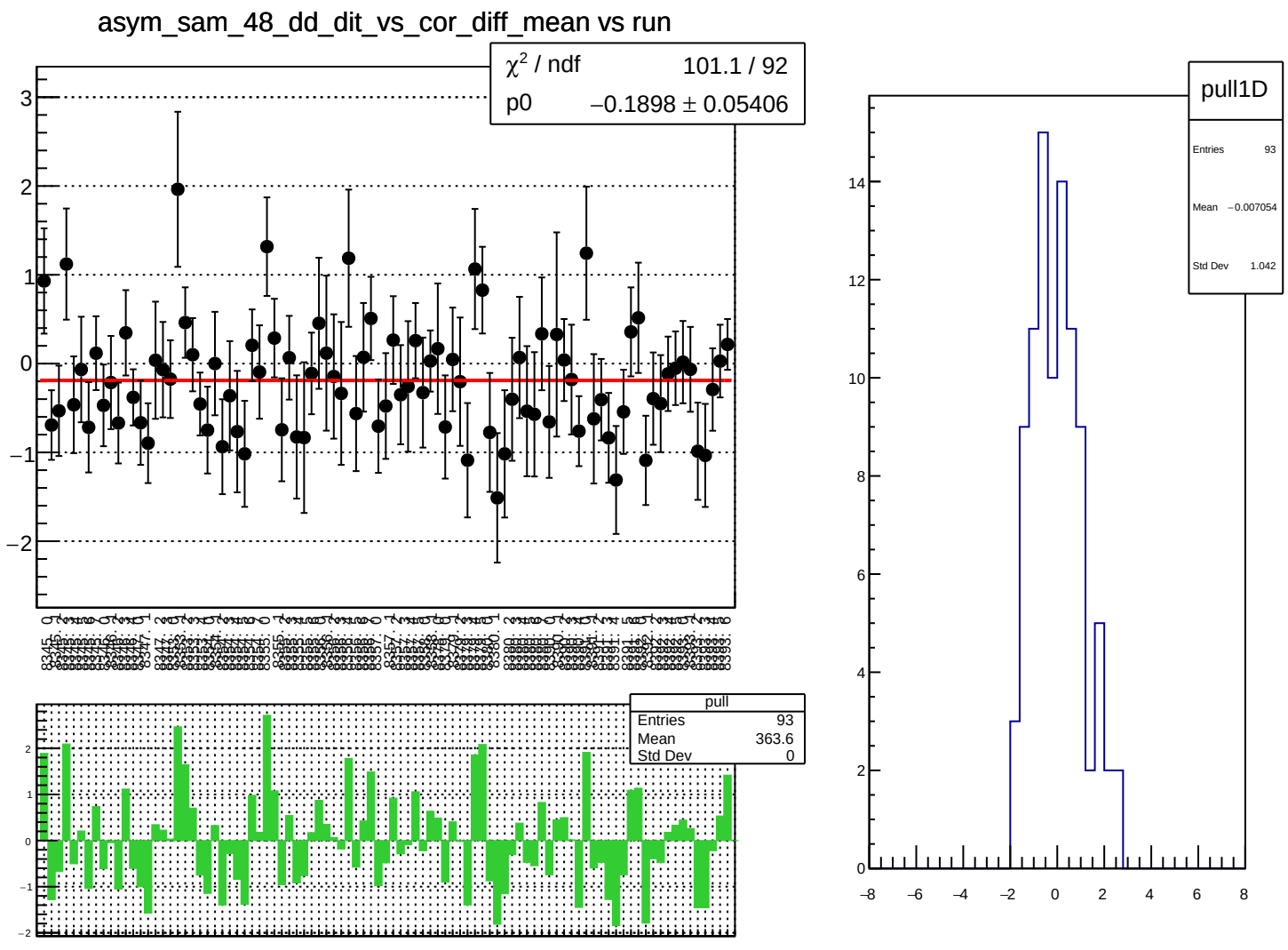

pull1D
Entries 93
Mean −0.007613
Std Dev 1.118

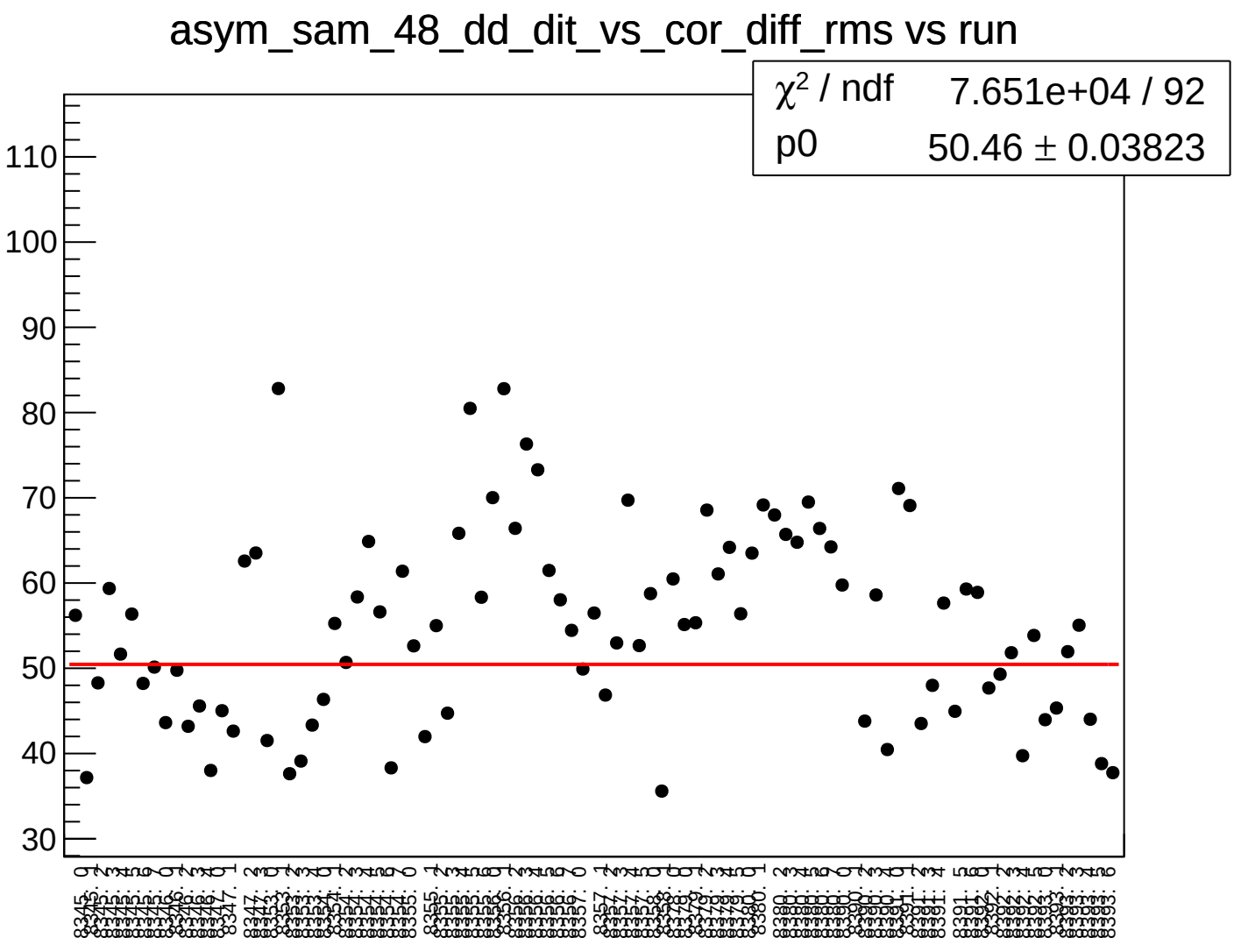

asym_sam_48_dd_rms vs run
χ² / ndf 8352 / 92
p0 2022 ± 1.503
2300
2200
2100
2000
1900
1800
1700

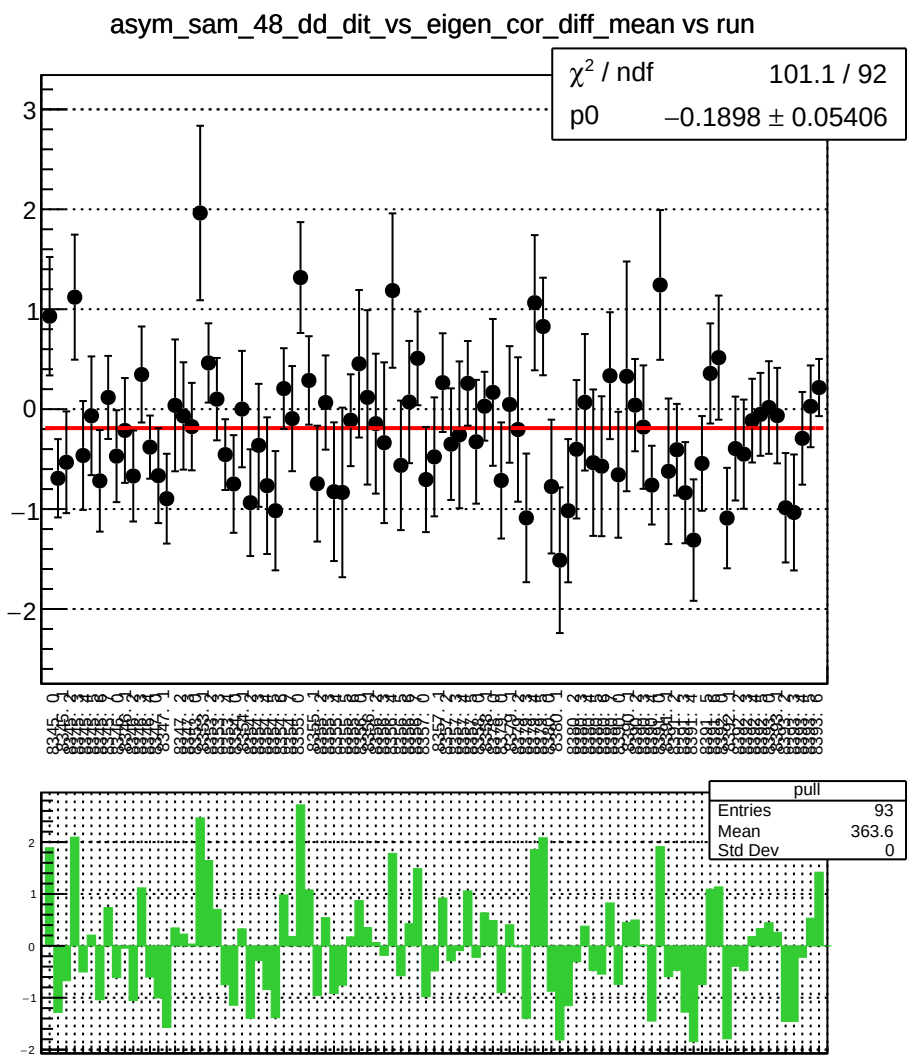

asym_sam_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 104 / 92
p0 1.764e−13 ± 2.519e−13
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
−0.0025
−0.003
−0.0035
pull
Entries 93
Mean −58.75
Std Dev 0
2
1
0
−1
−2

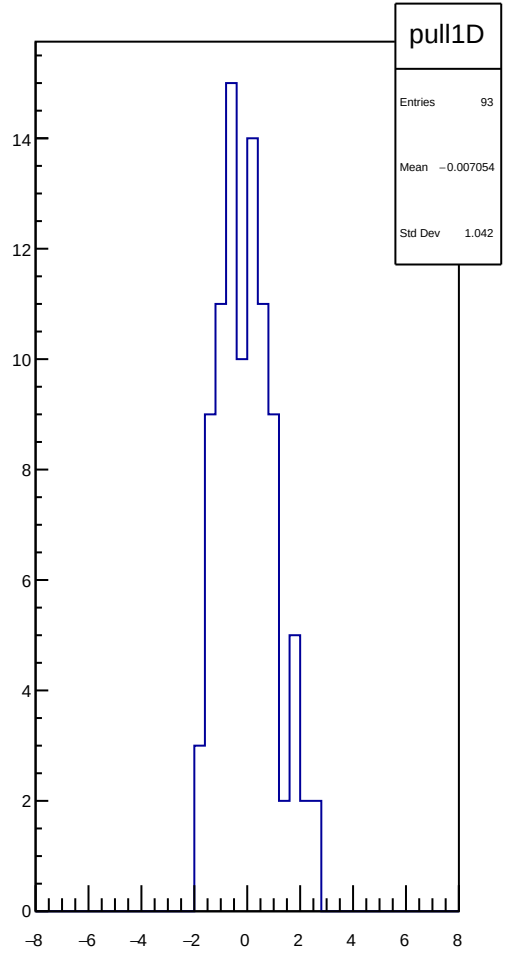

pull1D
Entries 93
Mean −0.0545
Std Dev 1.056
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

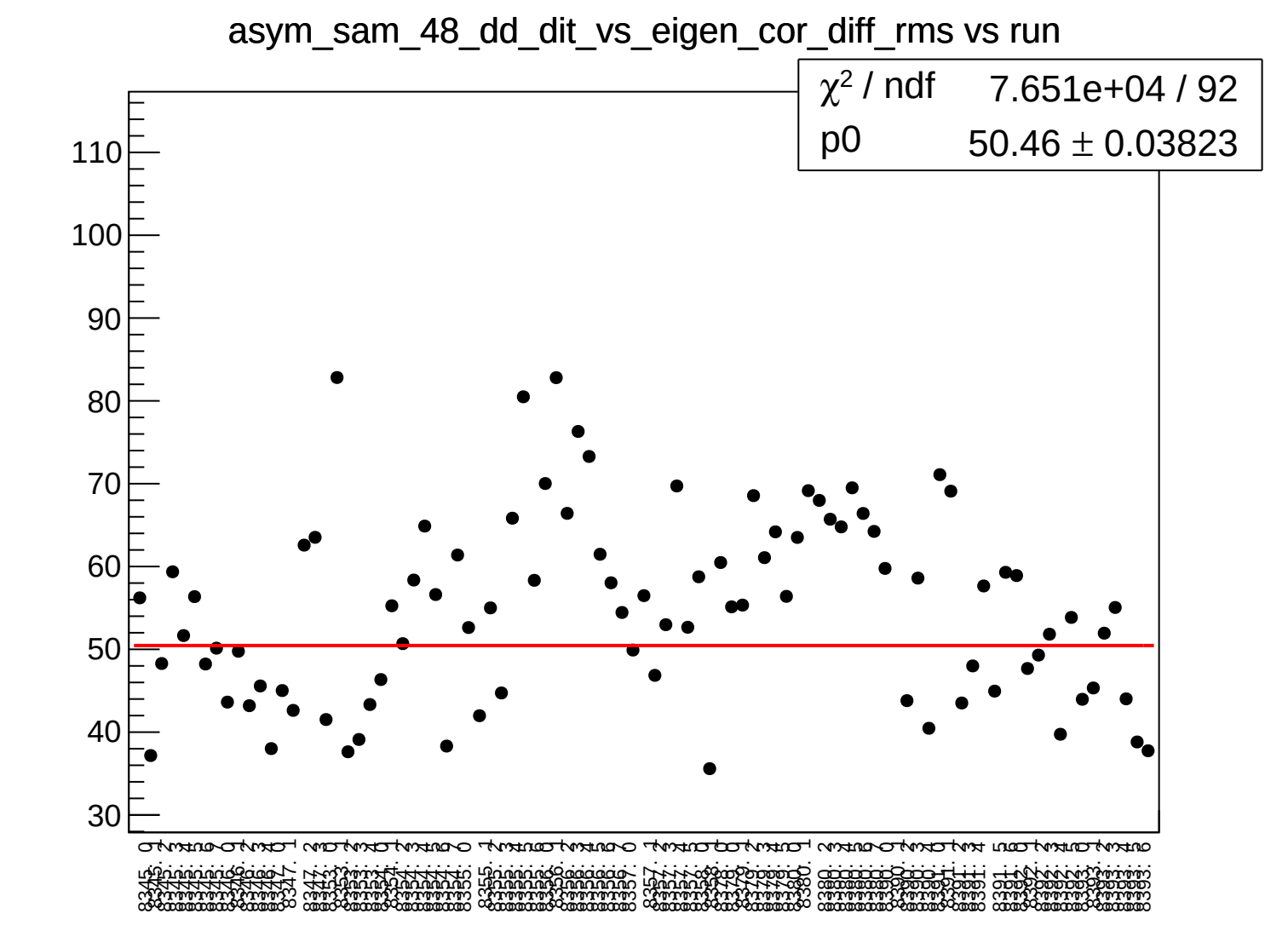

asym_sam_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.174e+05 / 92
p0 1.691e−10 ± 1.781e−13
0.1
0.08
0.06
0.04
0.02
0

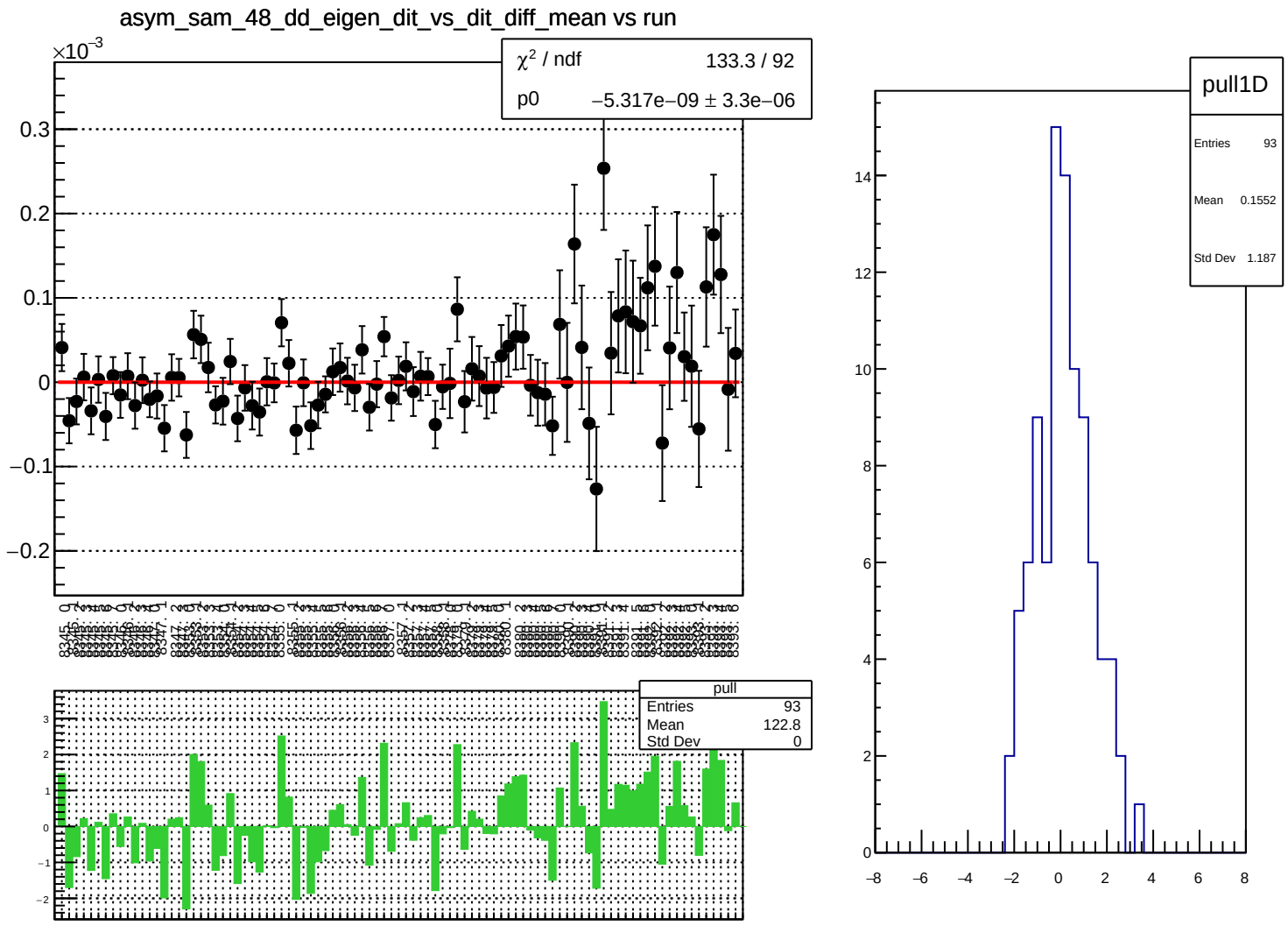

asym_sam_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 101.1 / 92
p0 −0.1898 ± 0.05406
pull
Entries 93
Mean 363.6
Std Dev 0
pull1D
Entries 93
Mean −0.007054
Std Dev 1.042

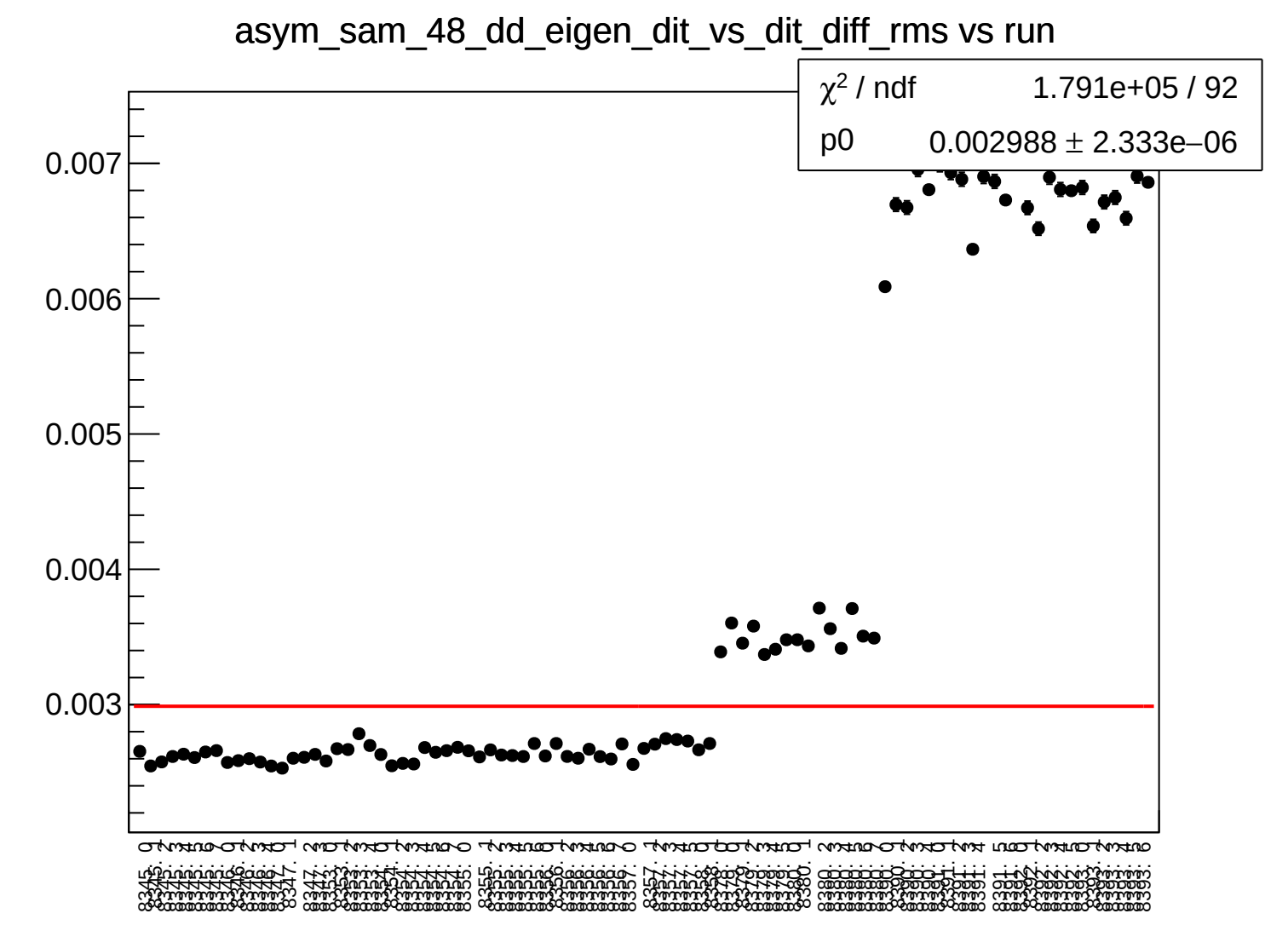

asym_sam_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.651e+04 / 92
p0 50.46 ± 0.03823
110
100
90
80
70
60
50
40
30

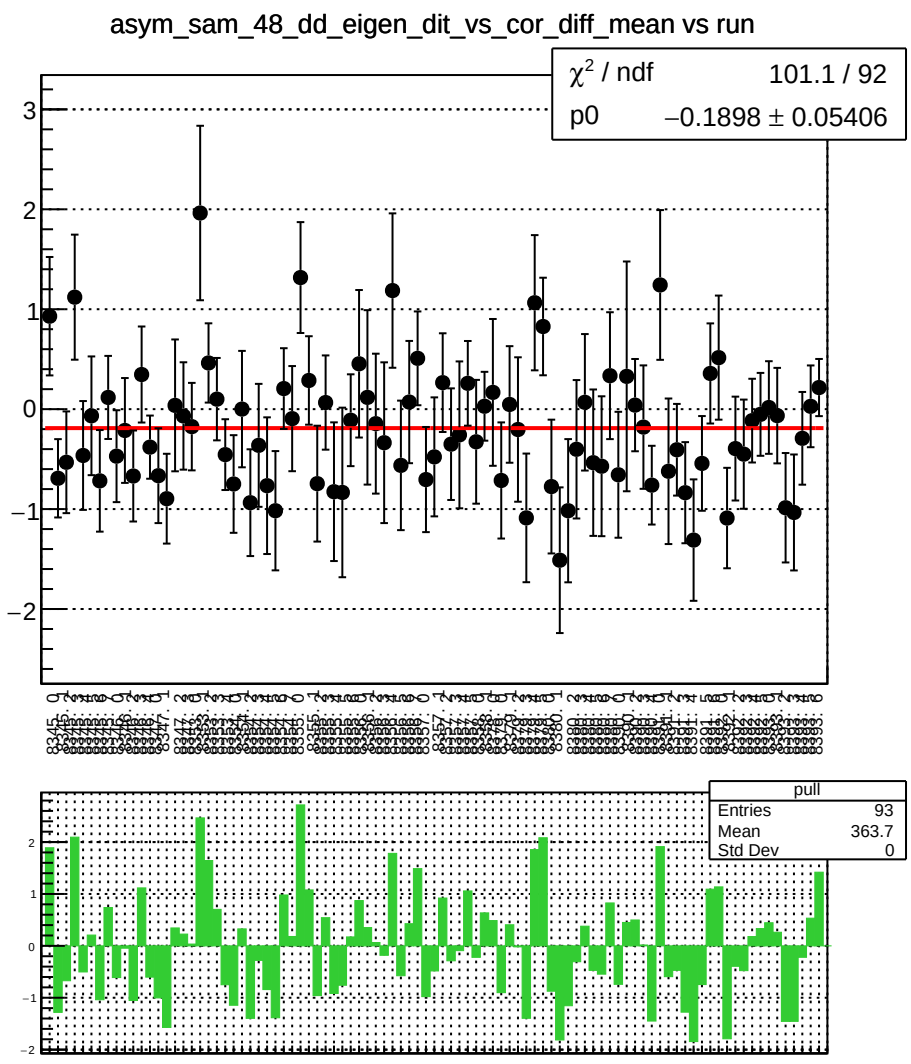

asym_sam_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.1 / 92
p0 −0.1898 ± 0.05406
pull
Entries 93
Mean 363.6
Std Dev 0

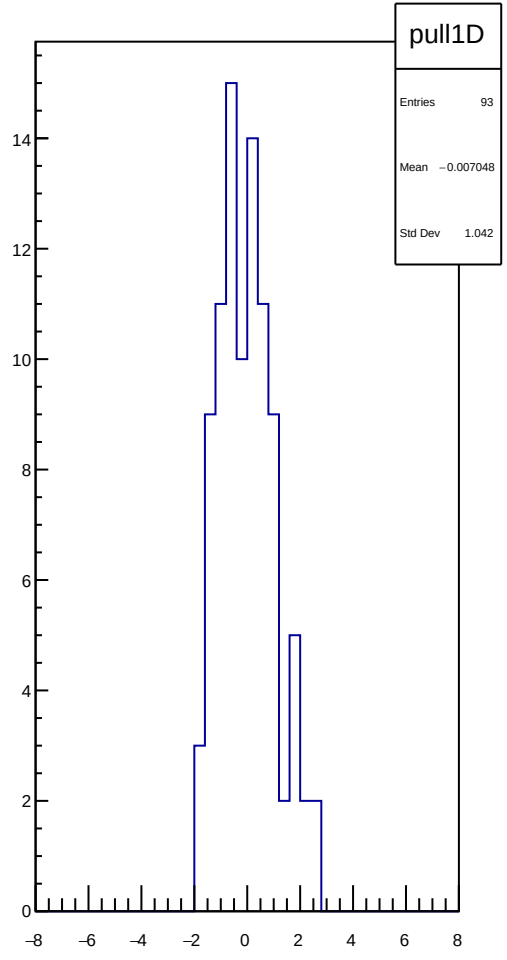

pull1D
Entries 93
Mean −0.007054
Std Dev 1.042

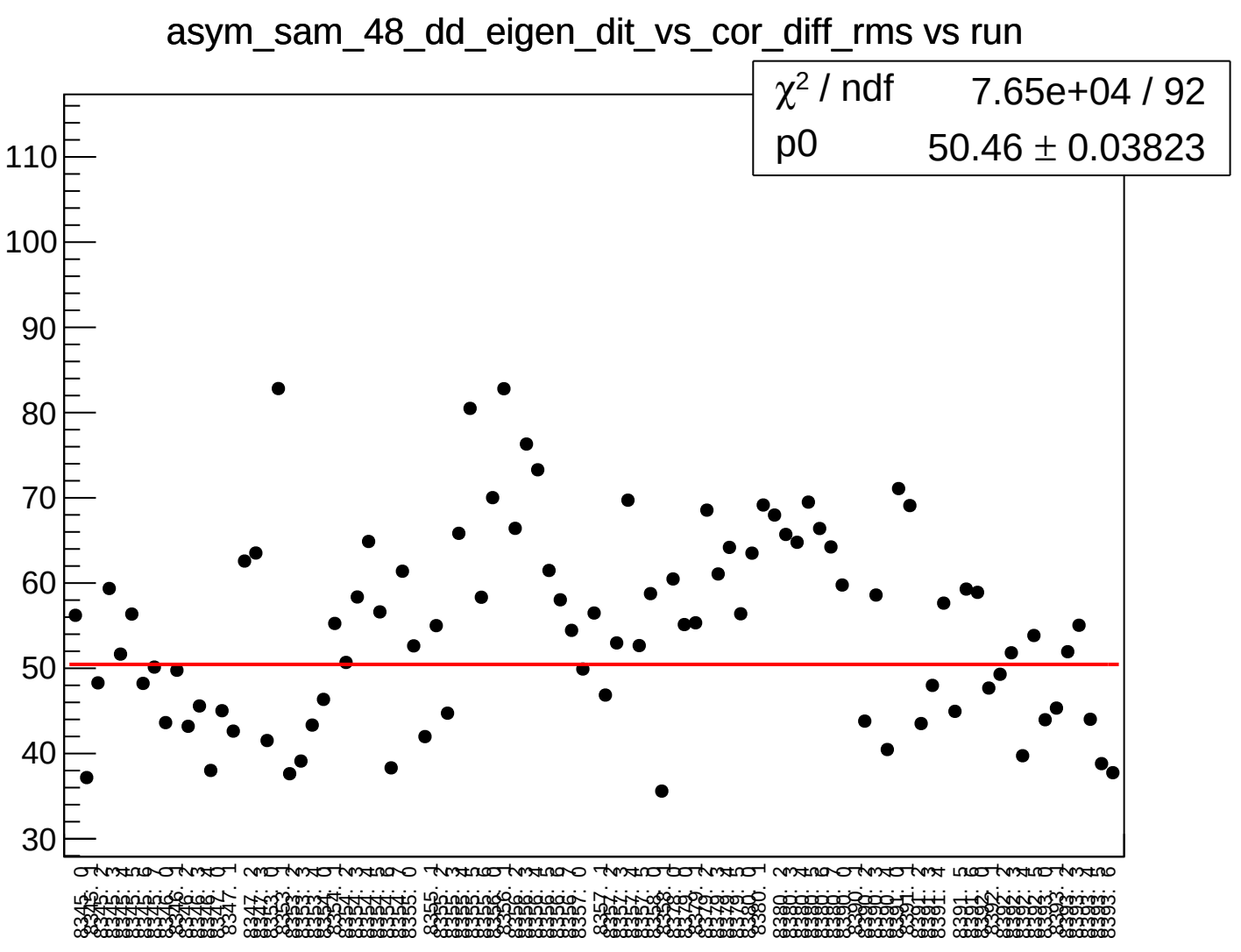

asym_sam_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.651e+04 / 92
p0 50.46 ± 0.03823
110
100
90
80
70
60
50
40
30

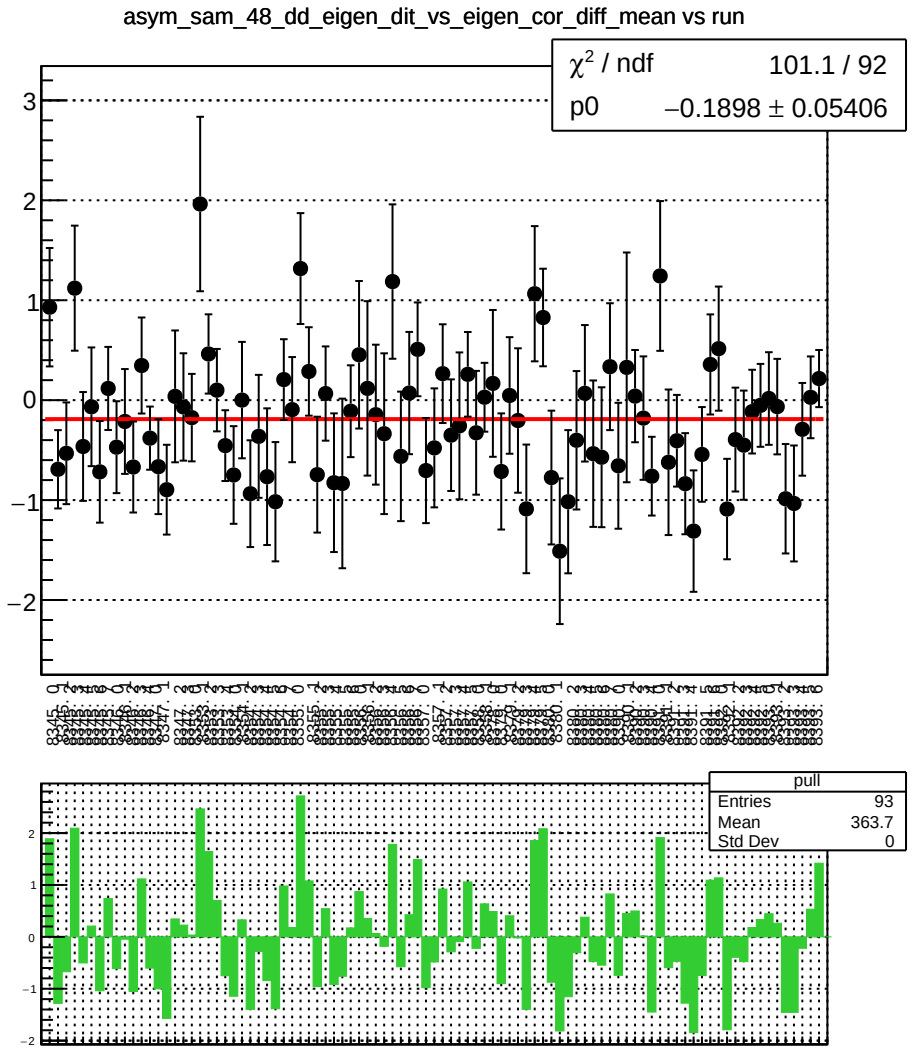

asym_sam_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 133.3 / 92
p0 −5.317e−09 ± 3.3e−06
0.3
0.2
0.1
0
−0.1
−0.2
pull
Entries 93
Mean 122.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.1552
Std Dev 1.187
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

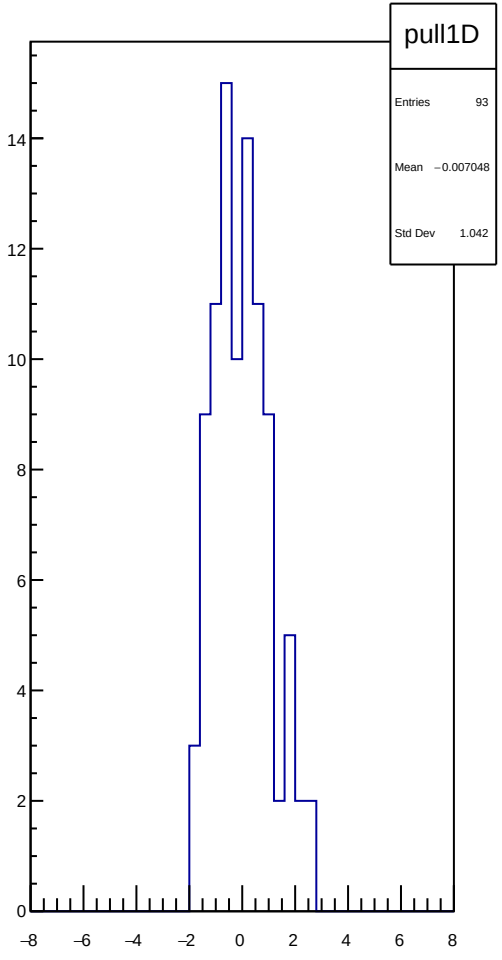

asym_sam_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.791e+05 / 92
p0 0.002988 ± 2.333e−06
0.007
0.006
0.005
0.004
0.003

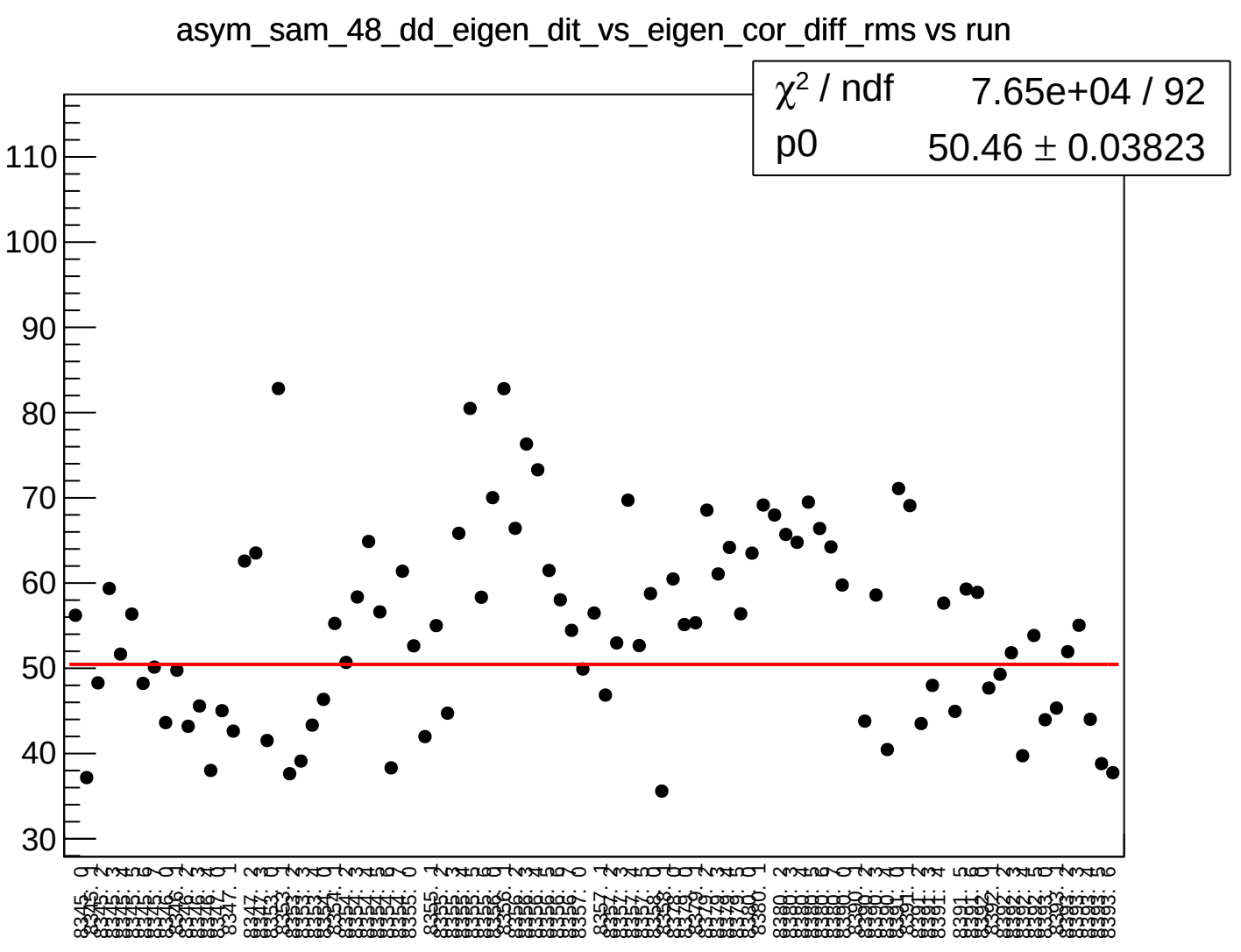

asym_sam_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 101.1 / 92
p0 −0.1898 ± 0.05406
pull
Entries 93
Mean 363.7
Std Dev 0

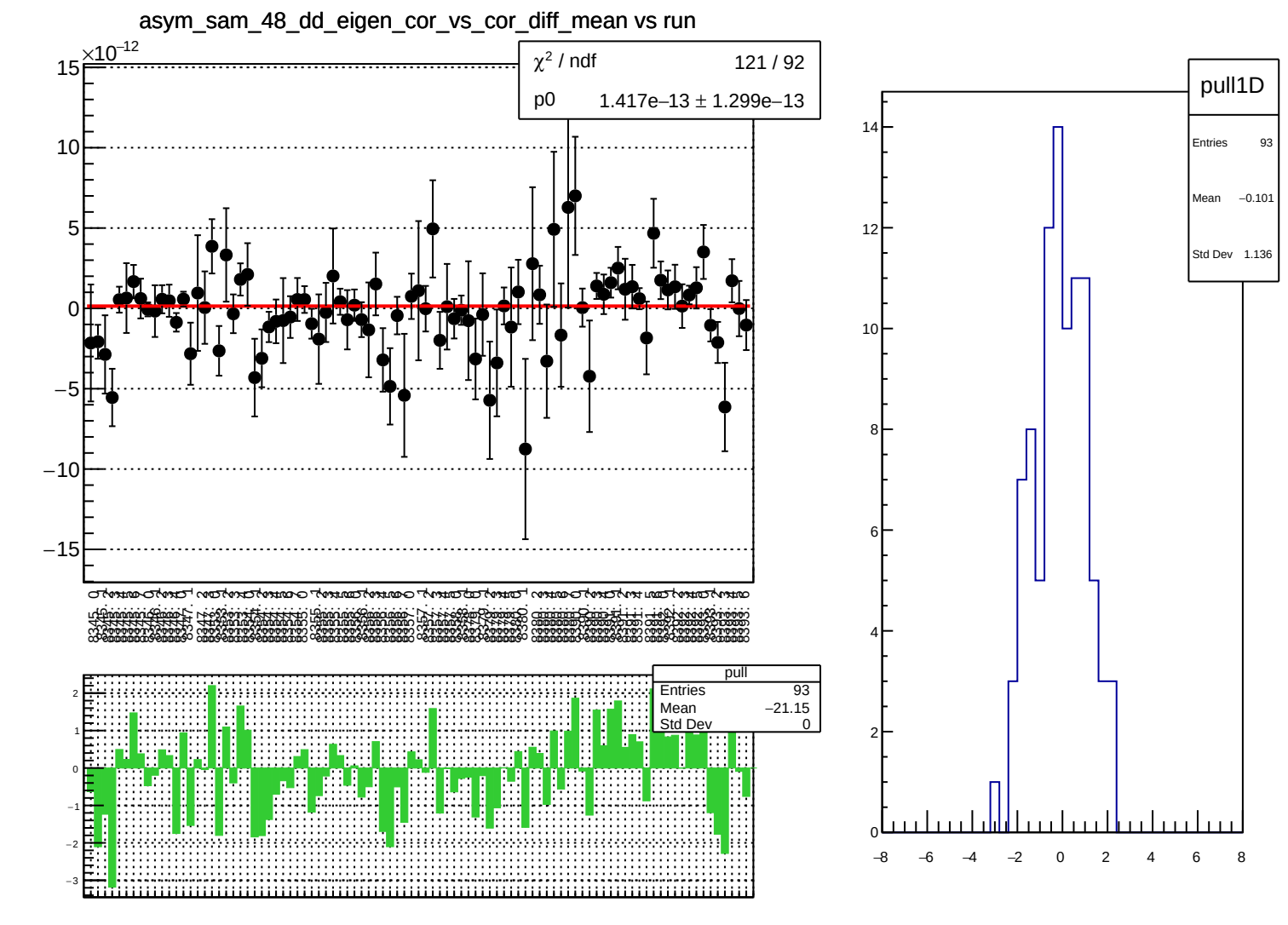

pull1D
Entries 93
Mean −0.007048
Std Dev 1.042

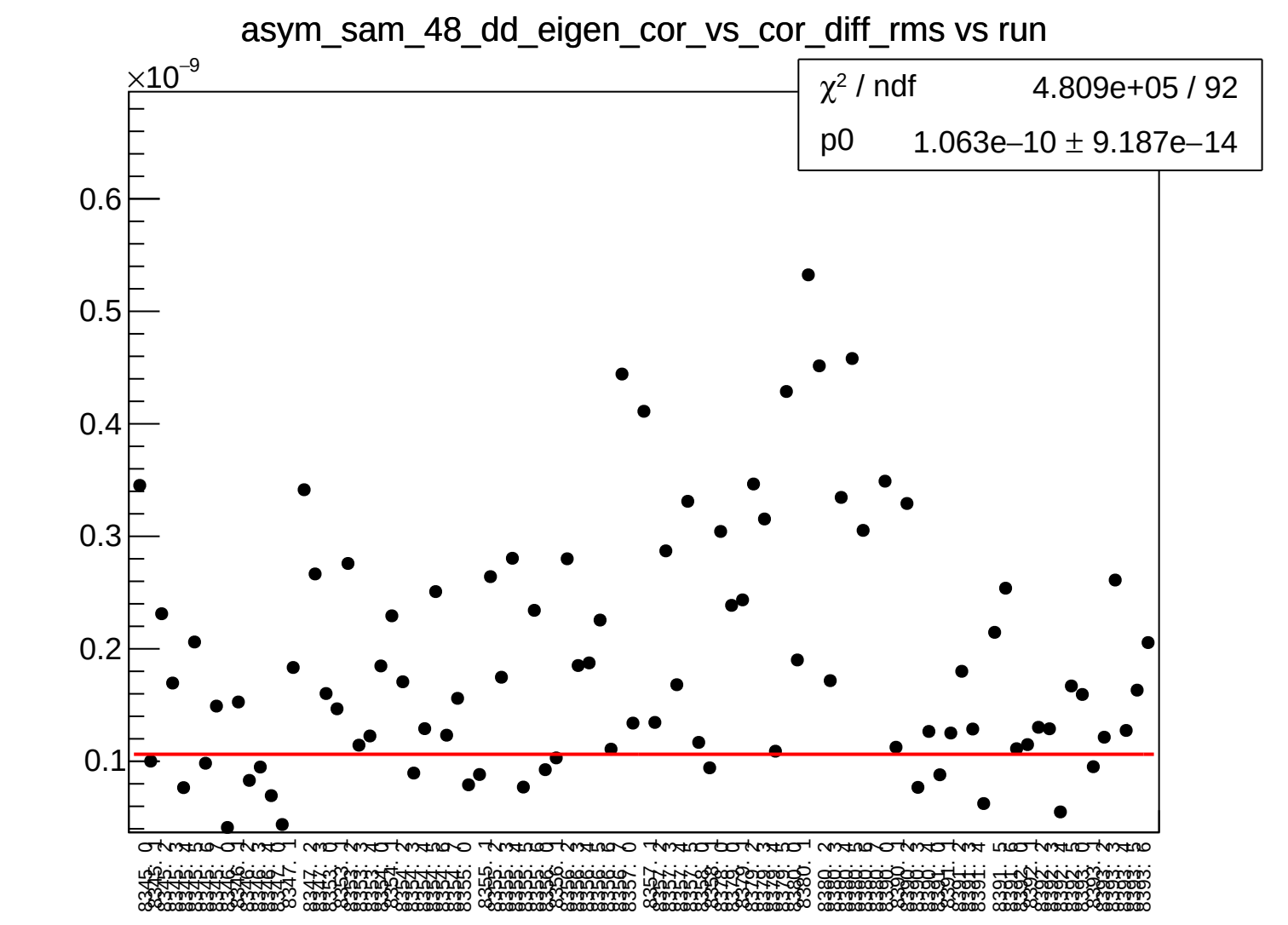

asym_sam_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.65e+04 / 92
p0 50.46 ± 0.03823
110
100
90
80
70
60
50
40
30

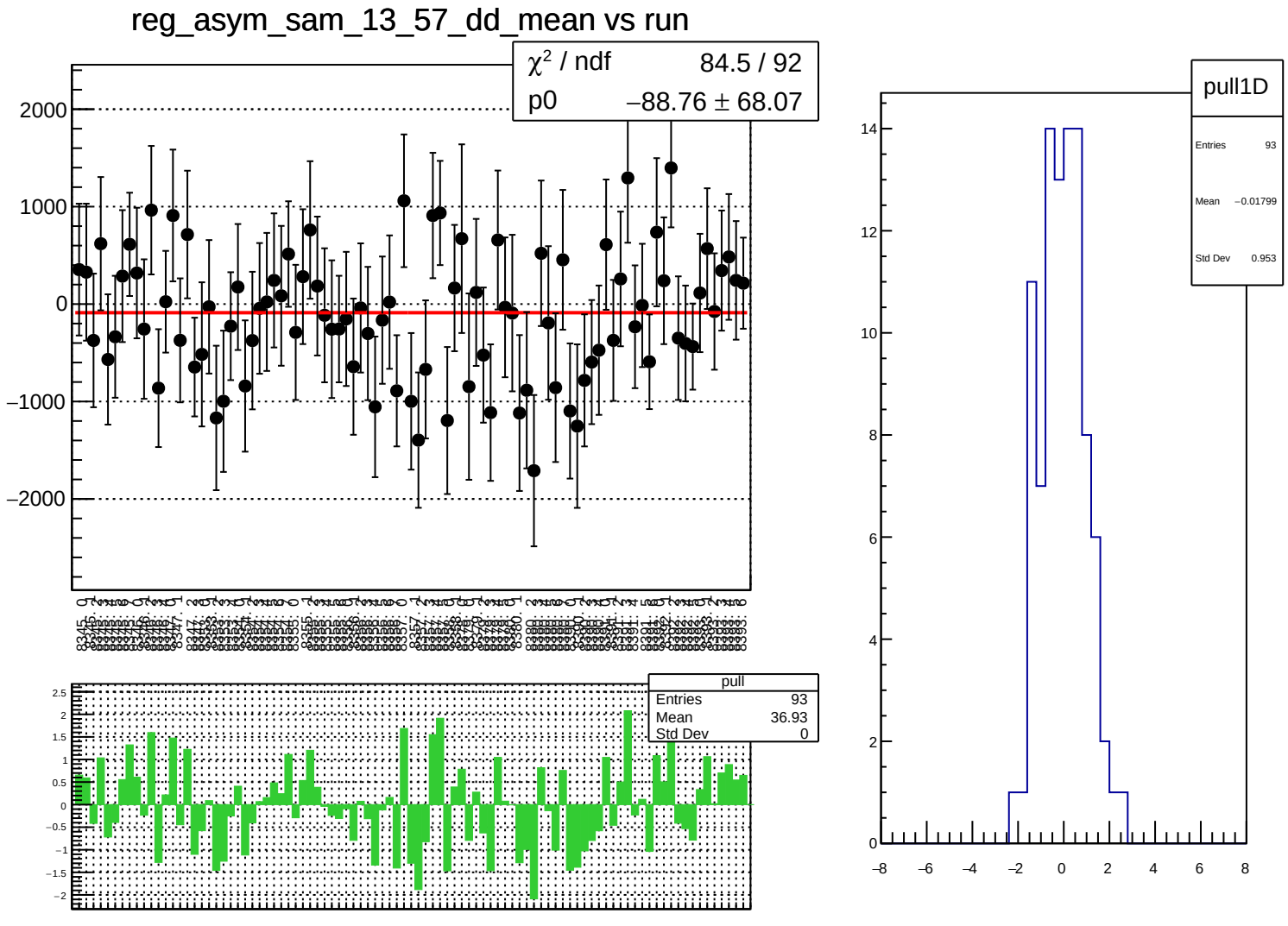

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.1 / 92
p0 −0.1898 ± 0.05406
pull
Entries 93
Mean 363.7
Std Dev 0

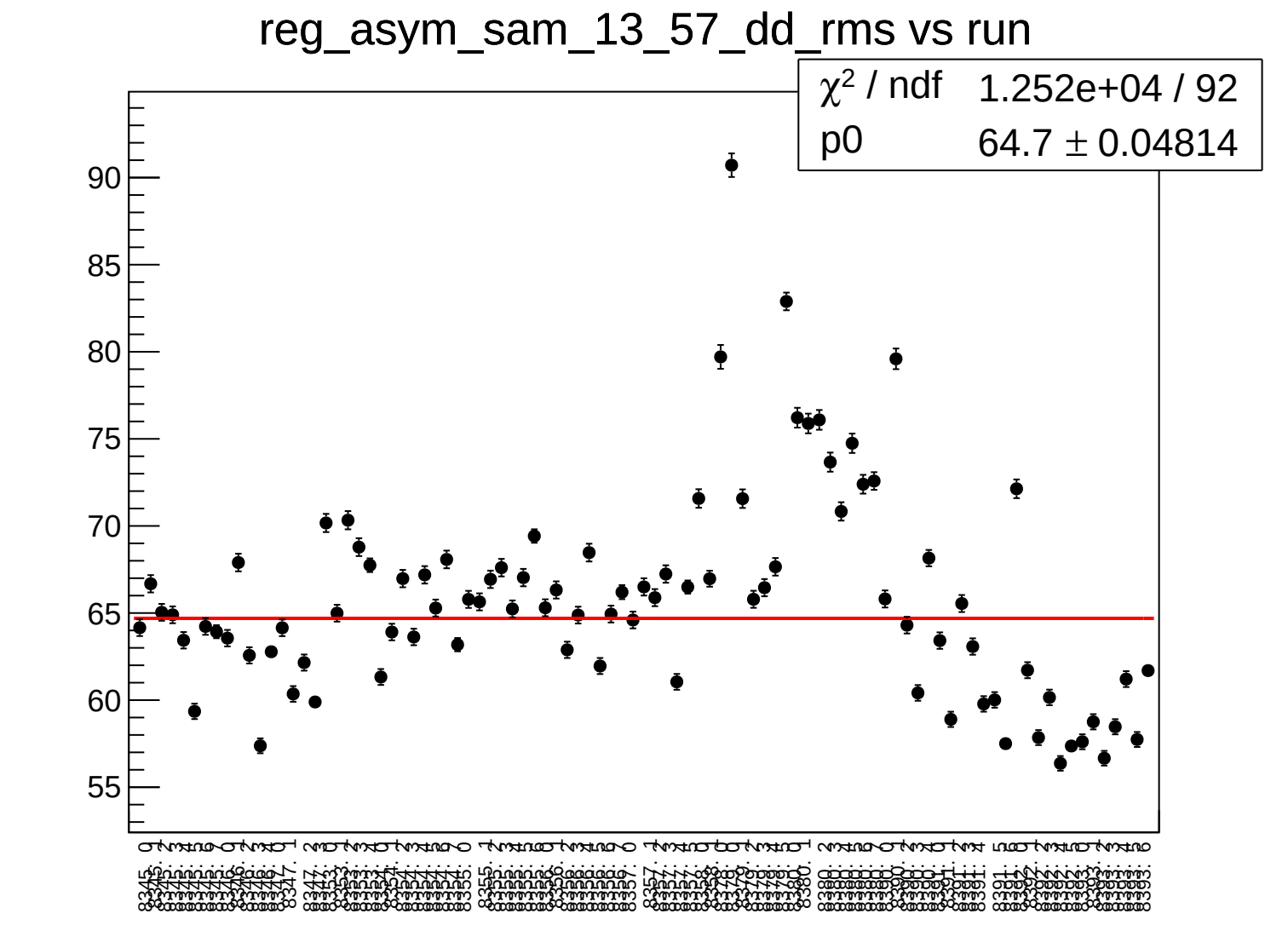

pull1D
Entries 93
Mean −0.007048
Std Dev 1.042

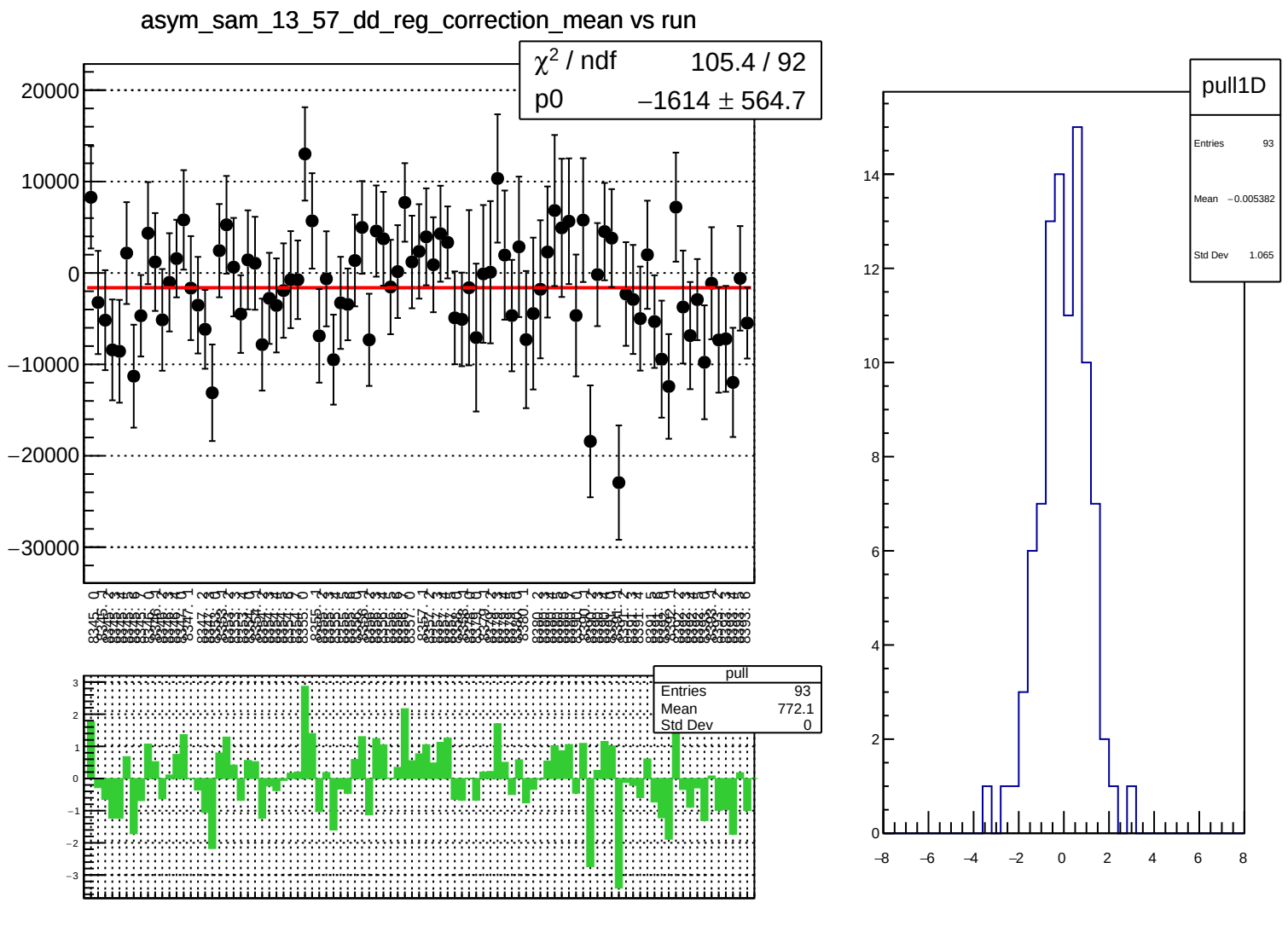

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.65e+04 / 92
p0 50.46 ± 0.03823
110
100
90
80
70
60
50
40
30

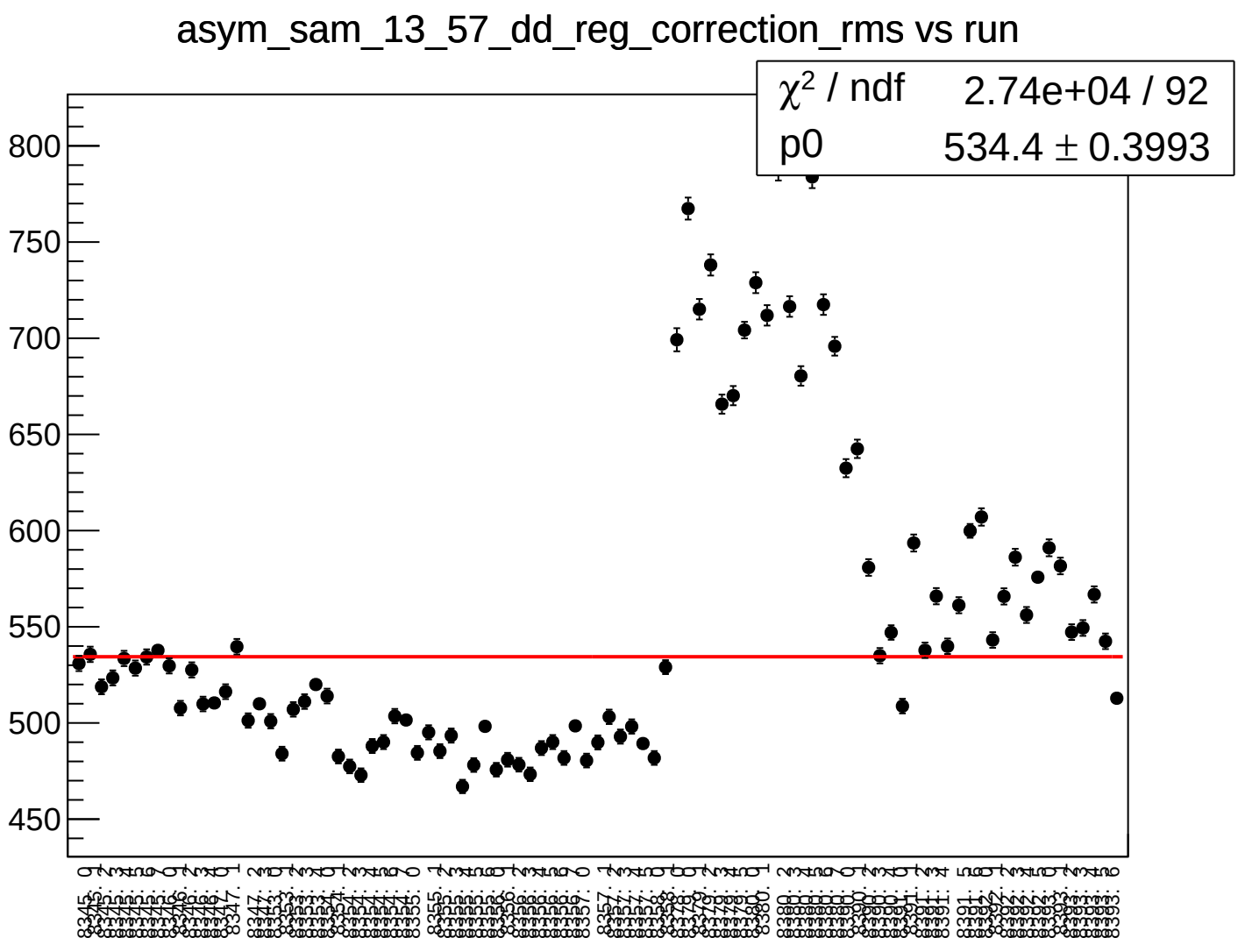

asym_sam_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 121 / 92
p0 1.417e−13 ± 1.299e−13
pull
Entries 93
Mean −21.15
Std Dev 0
pull1D
Entries 93
Mean −0.101
Std Dev 1.136

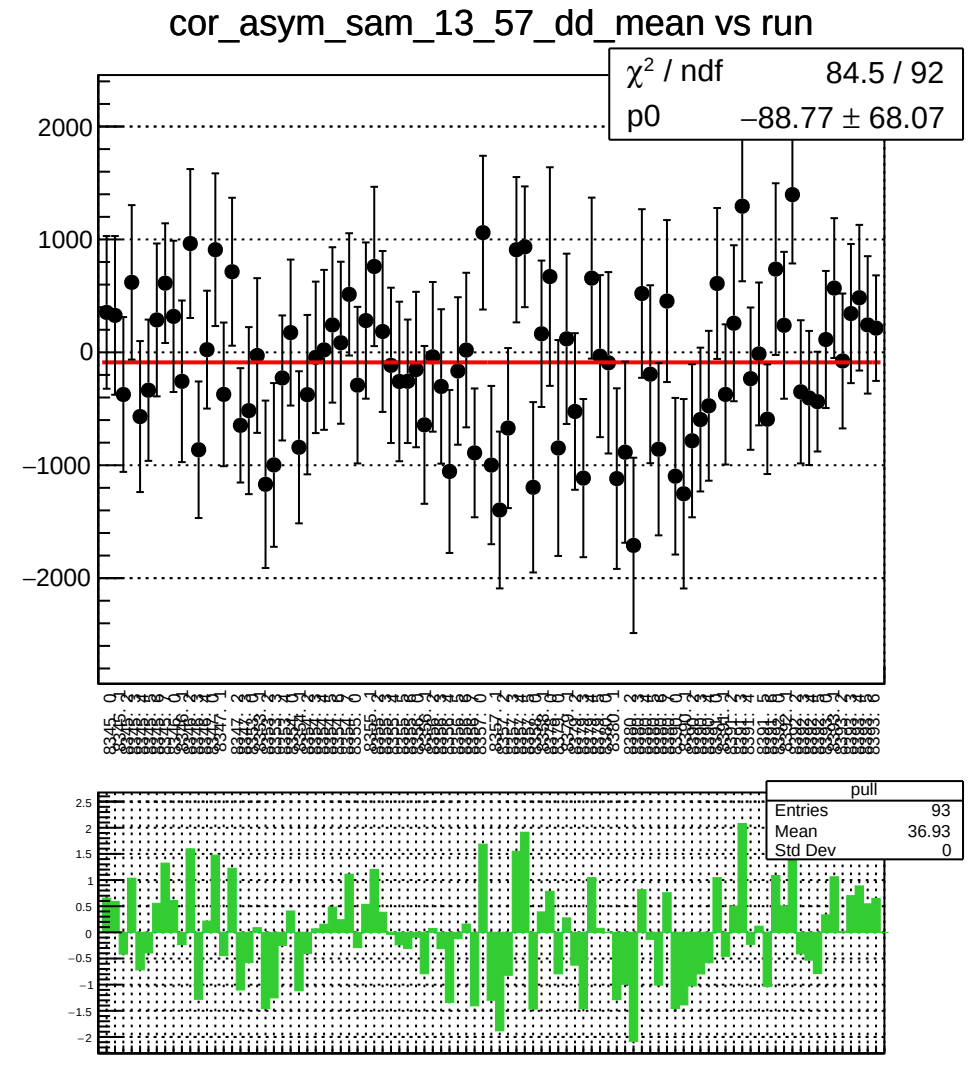

asym_sam_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.809e+05 / 92
p0 1.063e−10 ± 9.187e−14
0.6
0.5
0.4
0.3
0.2
0.1

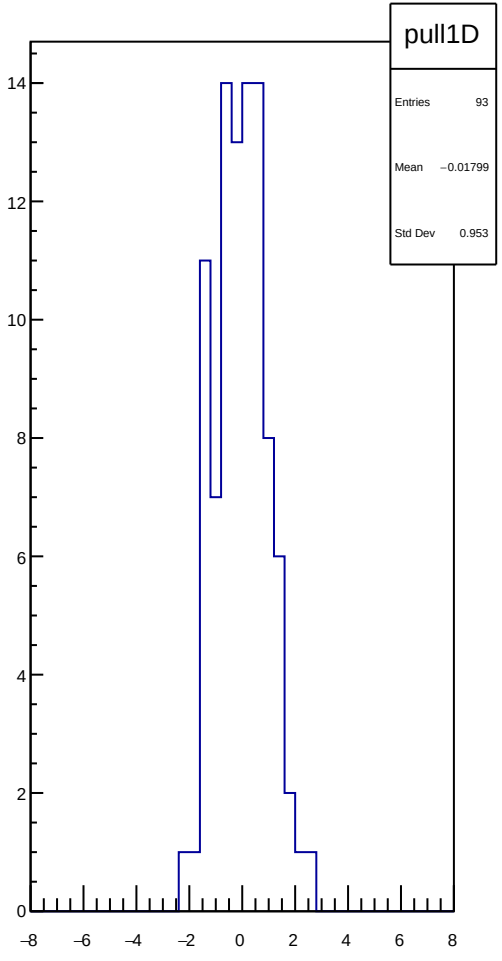

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 84.5 / 92
p0 −88.76 ± 68.07
2000
1000
0
−1000
−2000
pull
Entries 93
Mean 36.93
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean −0.01799
Std Dev 0.953
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

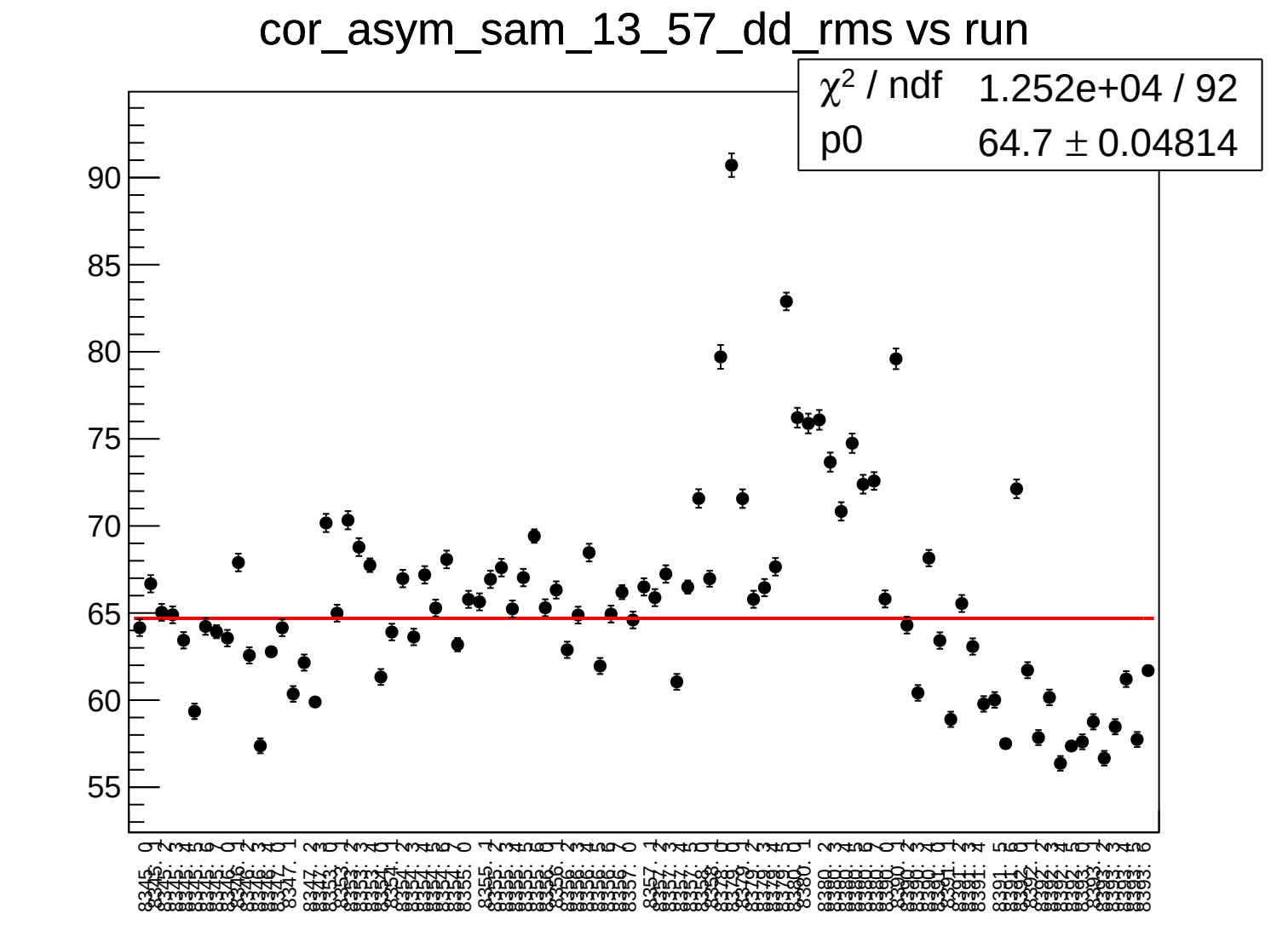

reg_asym_sam_13_57_dd_rms vs run
χ^2 / ndf 1.252e+04 / 92
p0 64.7 ± 0.04814
90
85
80
75
70
65
60
55

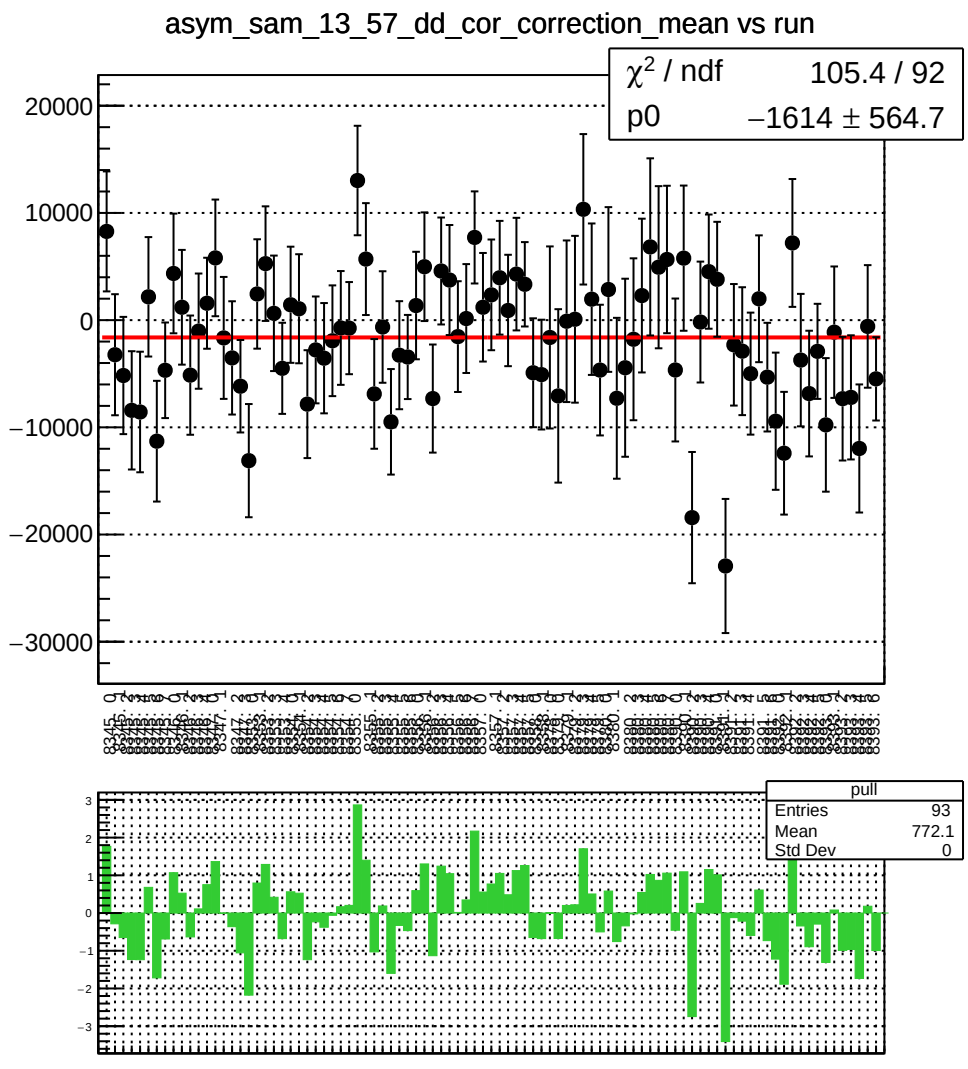

asym_sam_13_57_dd_reg_correction_mean vs run
χ² / ndf 105.4 / 92
p0 −1614 ± 564.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean 772.1
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.005382
Std Dev 1.065
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

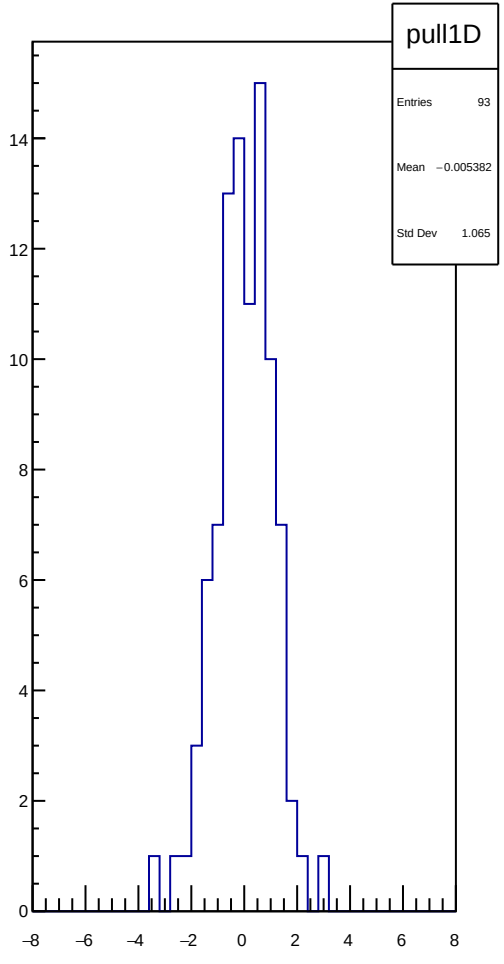

asym_sam_13_57_dd_reg_correction_rms vs run
χ² / ndf 2.74e+04 / 92
p0 534.4 ± 0.3993
800
750
700
650
600
550
500
450

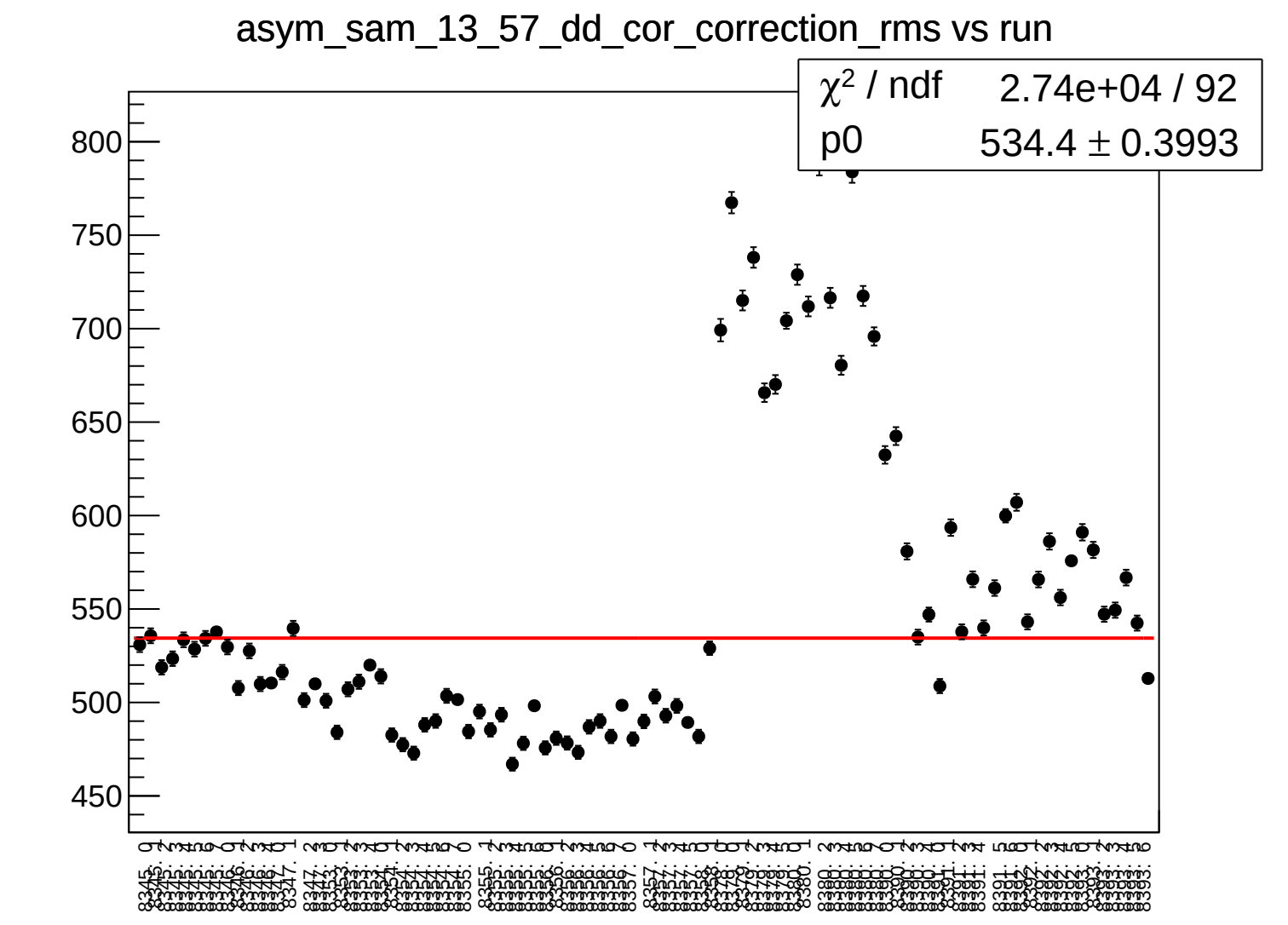

cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 84.5 / 92
p0 −88.77 ± 68.07
2000
1000
0
−1000
−2000
pull
Entries 93
Mean 36.93
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

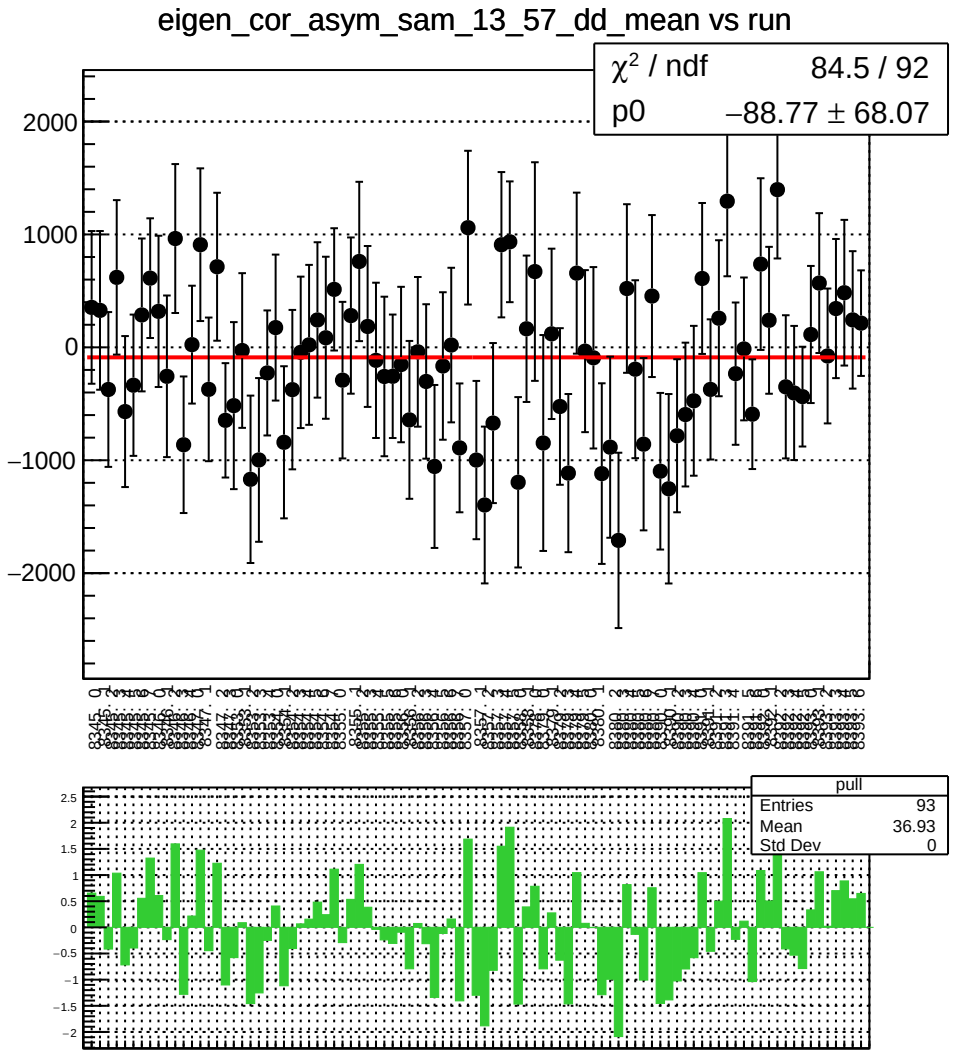

pull1D
Entries 93
Mean −0.01799
Std Dev 0.953
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

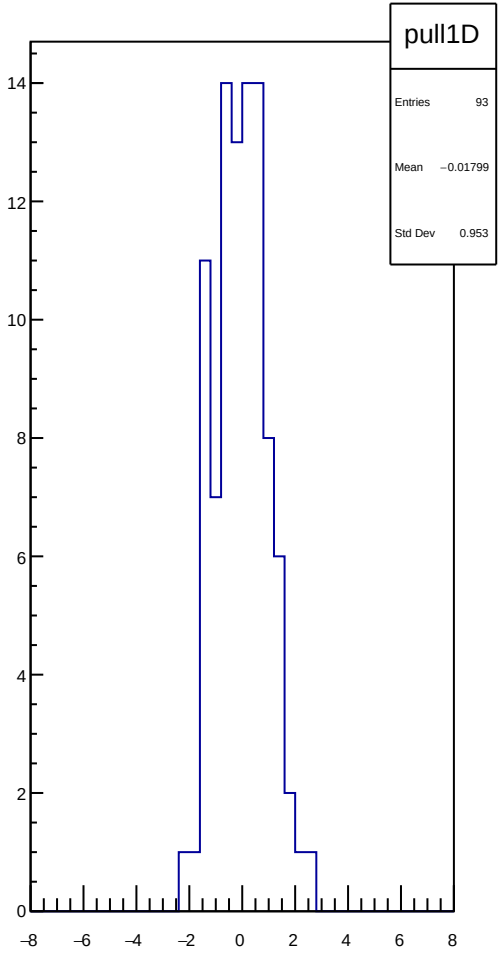

cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 1.252e+04 / 92
p0 64.7 ± 0.04814
90
85
80
75
70
65
60
55

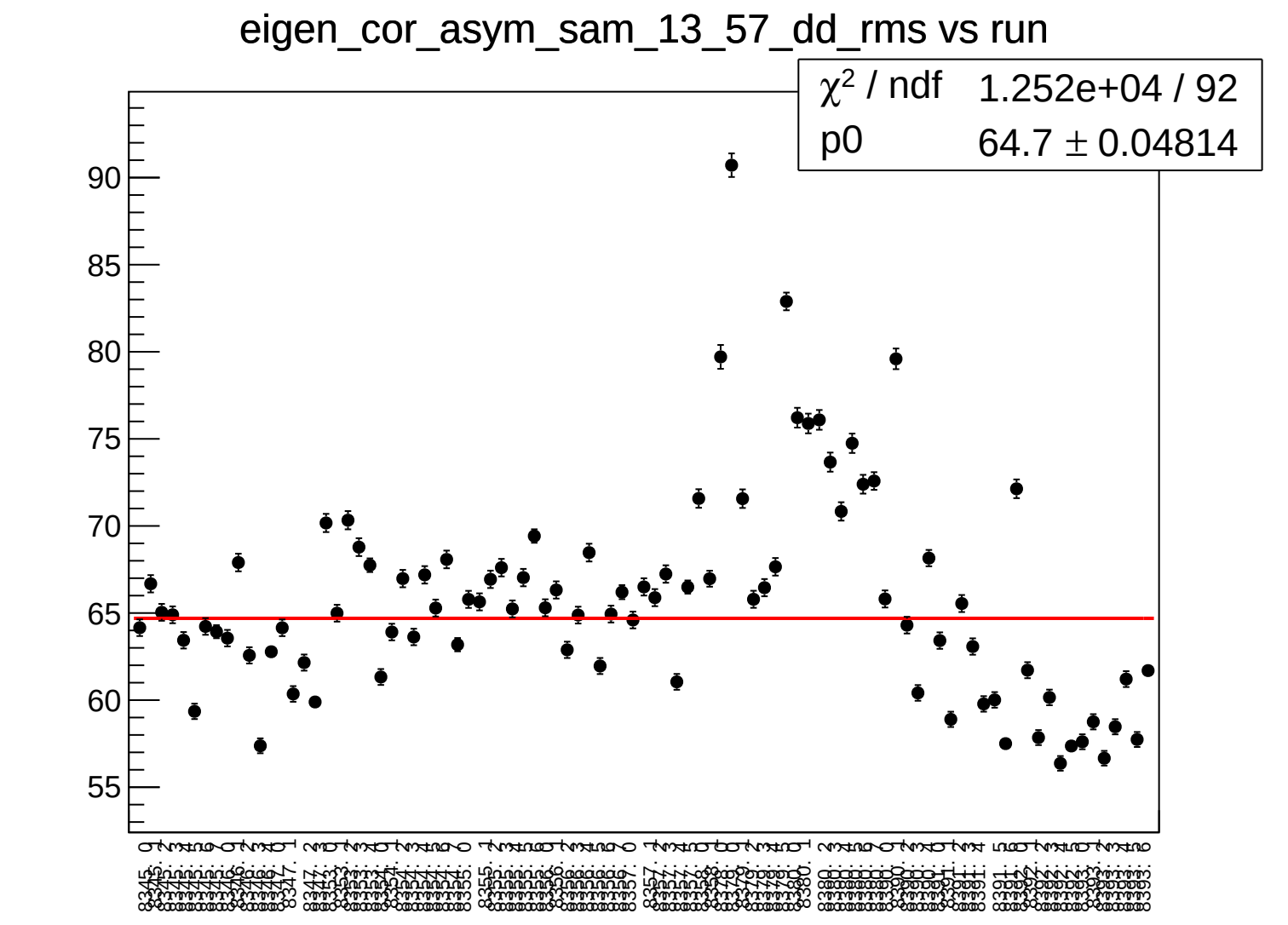

asym_sam_13_57_dd_cor_correction_mean vs run
χ² / ndf 105.4 / 92
p0 −1614 ± 564.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean 772.1
Std Dev 0
3
2
1
0
−1
−2
−3

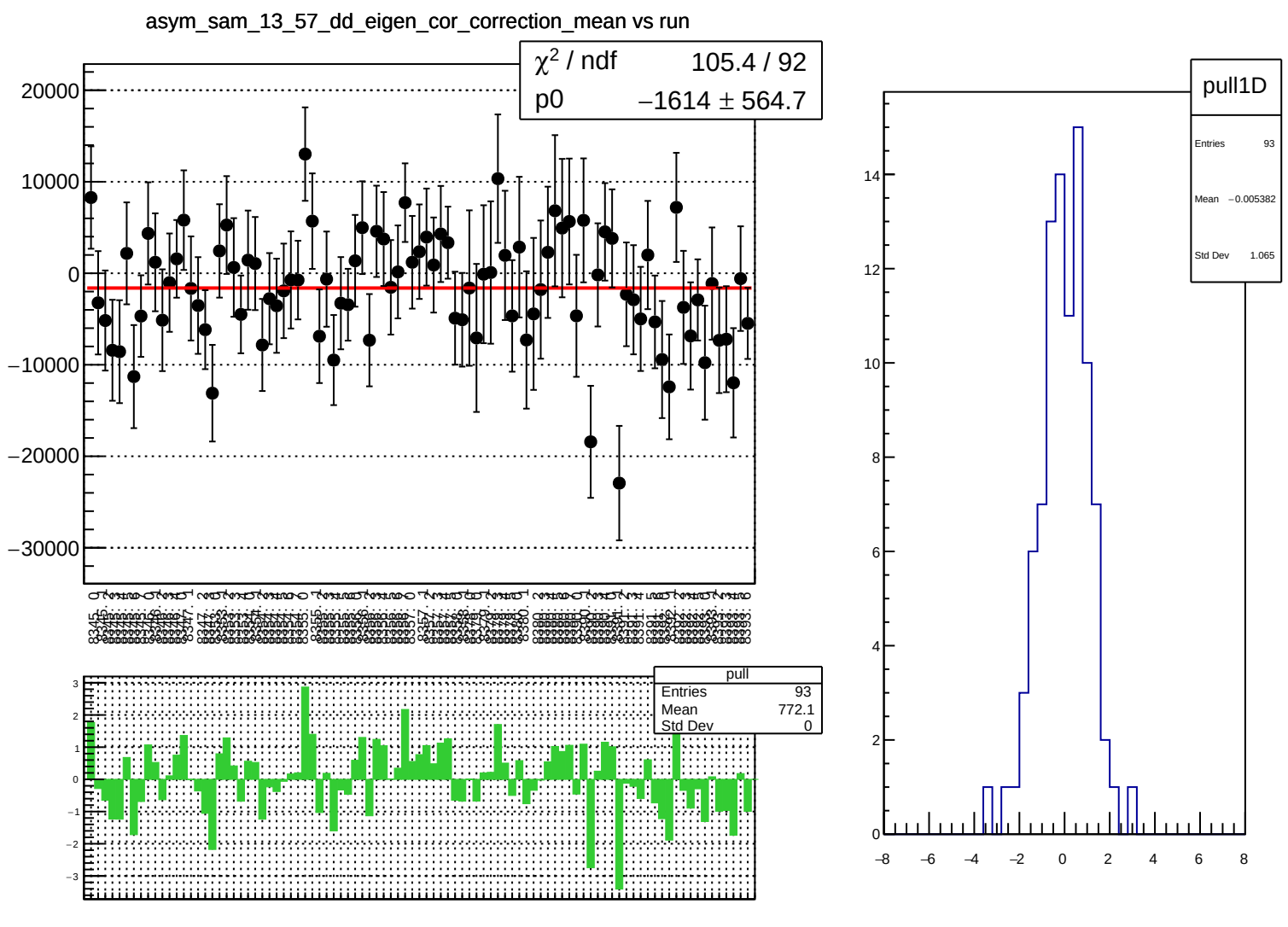

pull1D
Entries 93
Mean −0.005382
Std Dev 1.065
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

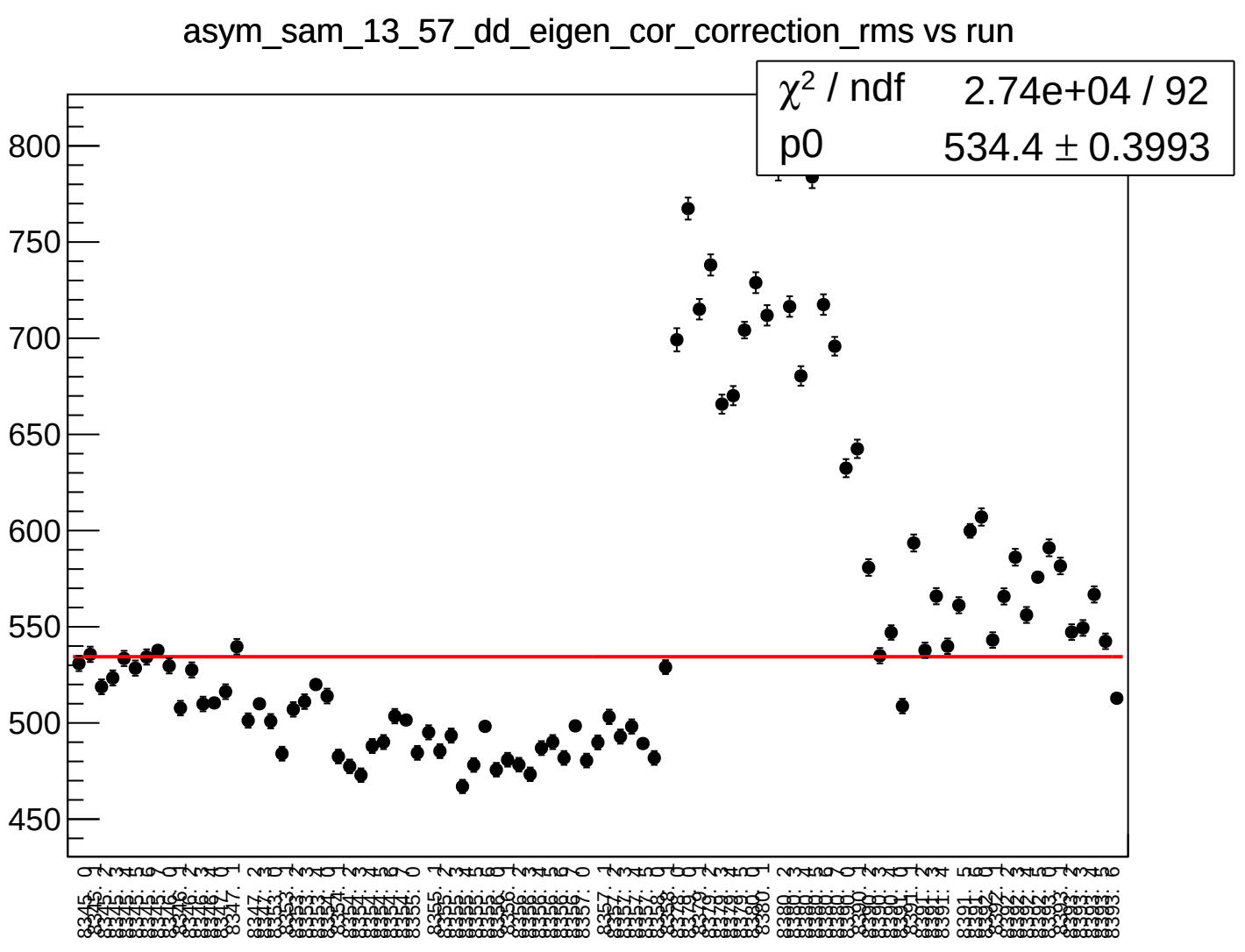

asym_sam_13_57_dd_cor_correction_rms vs run
χ² / ndf 2.74e+04 / 92
p0 534.4 ± 0.3993
800
750
700
650
600
550
500
450

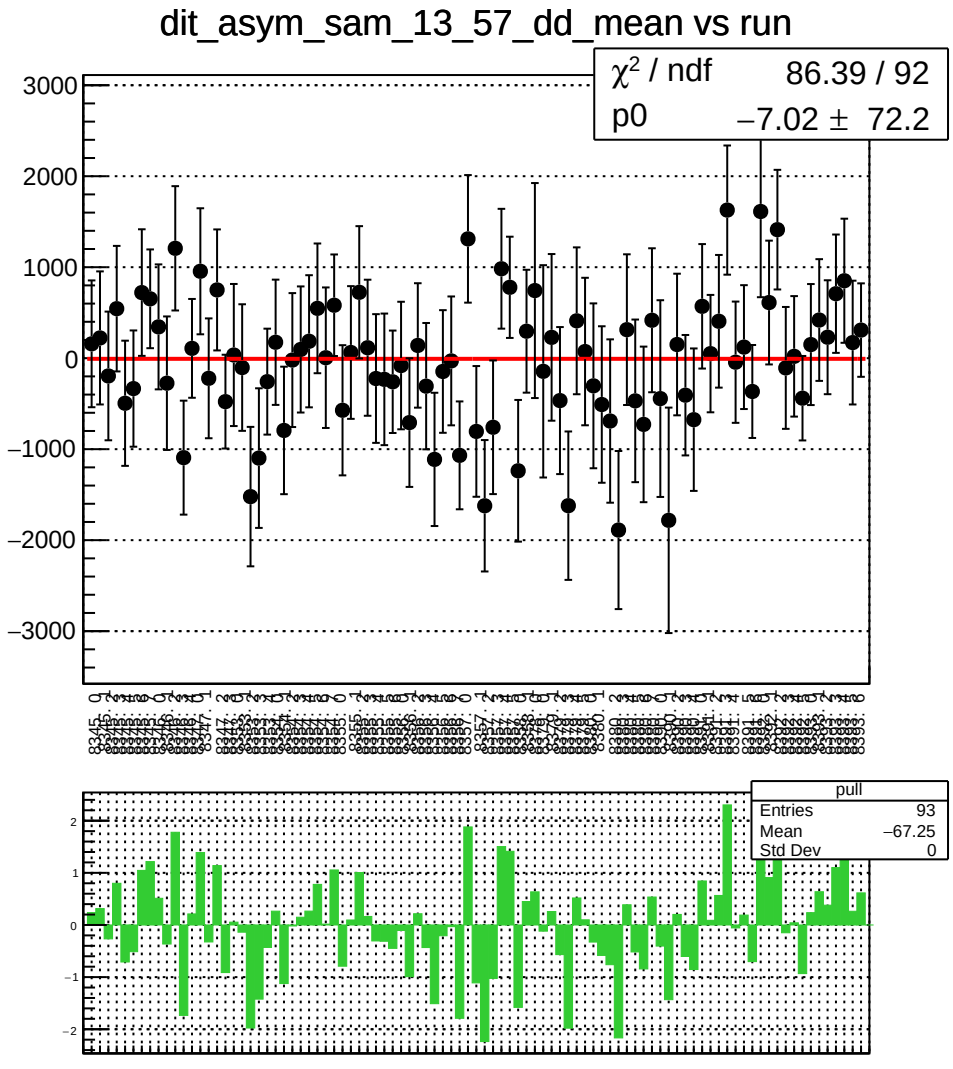

eigen_cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 84.5 / 92
p0 −88.77 ± 68.07
2000
1000
0
−1000
−2000
pull
Entries 93
Mean 36.93
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

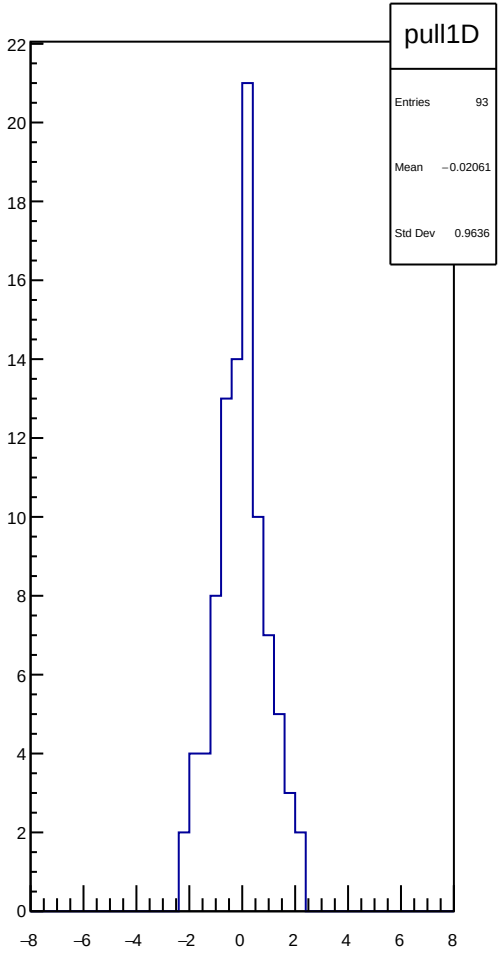

pull1D
Entries 93
Mean −0.01799
Std Dev 0.953
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

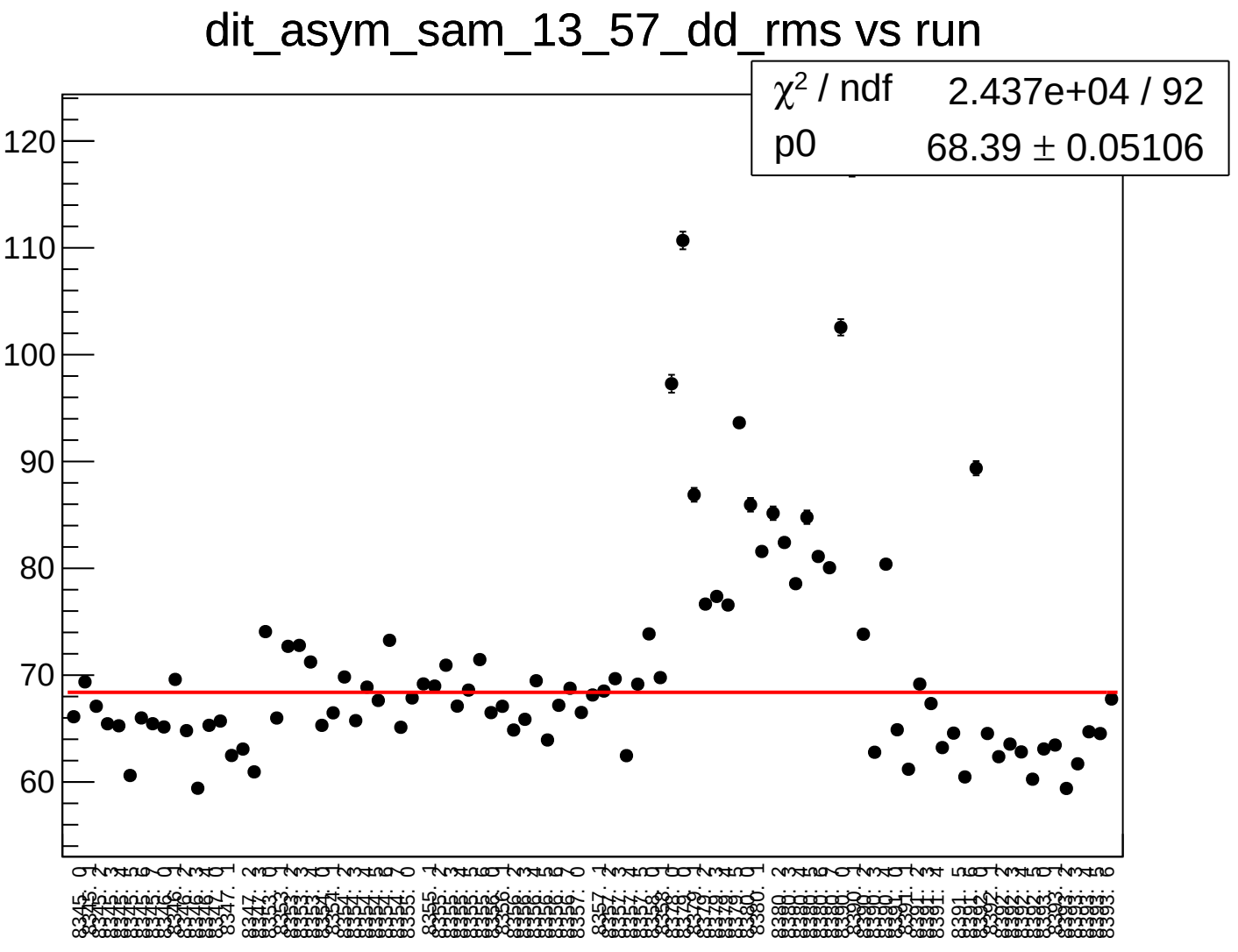

eigen_cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 1.252e+04 / 92
p0 64.7 ± 0.04814
90
85
80
75
70
65
60
55

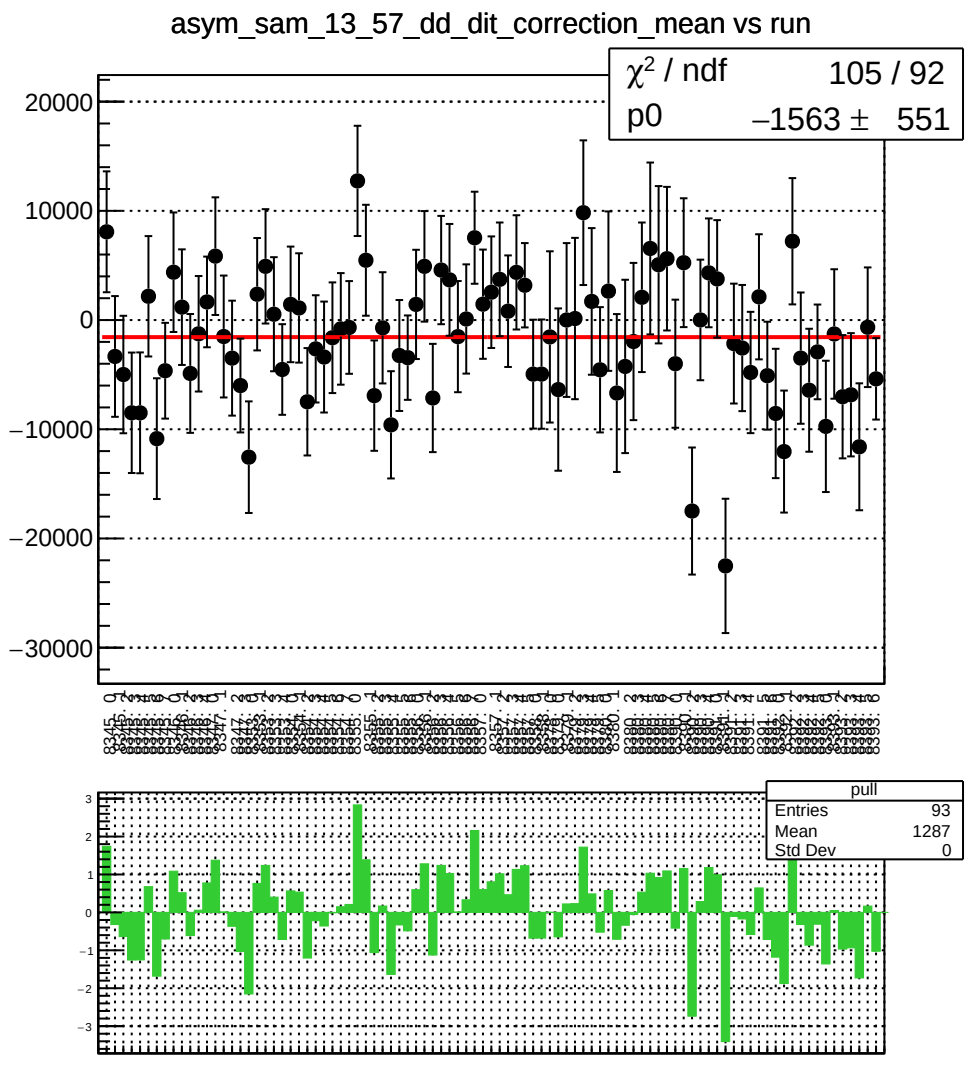

asym_sam_13_57_dd_eigen_cor_correction_mean vs run
χ² / ndf 105.4 / 92
p0 −1614 ± 564.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean 772.1
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.005382
Std Dev 1.065
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

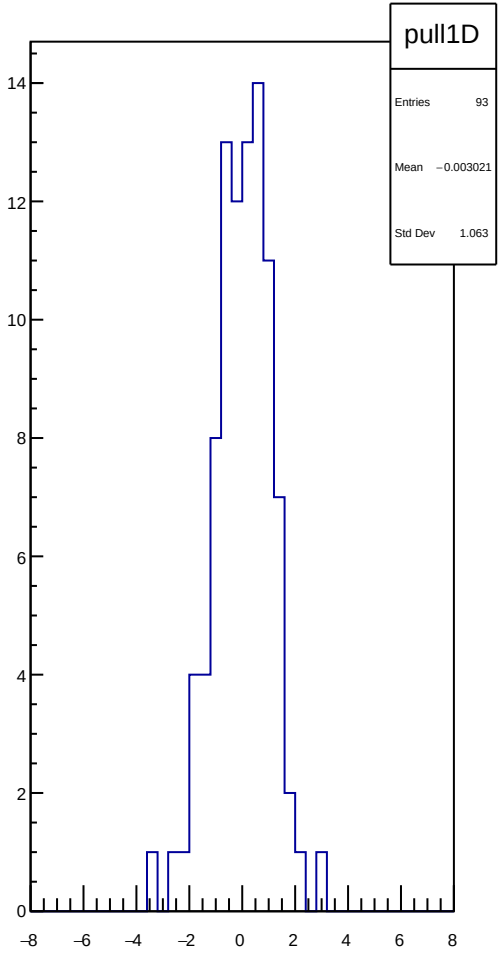

asym_sam_13_57_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.74e+04 / 92
p0 534.4 ± 0.3993
800
750
700
650
600
550
500
450

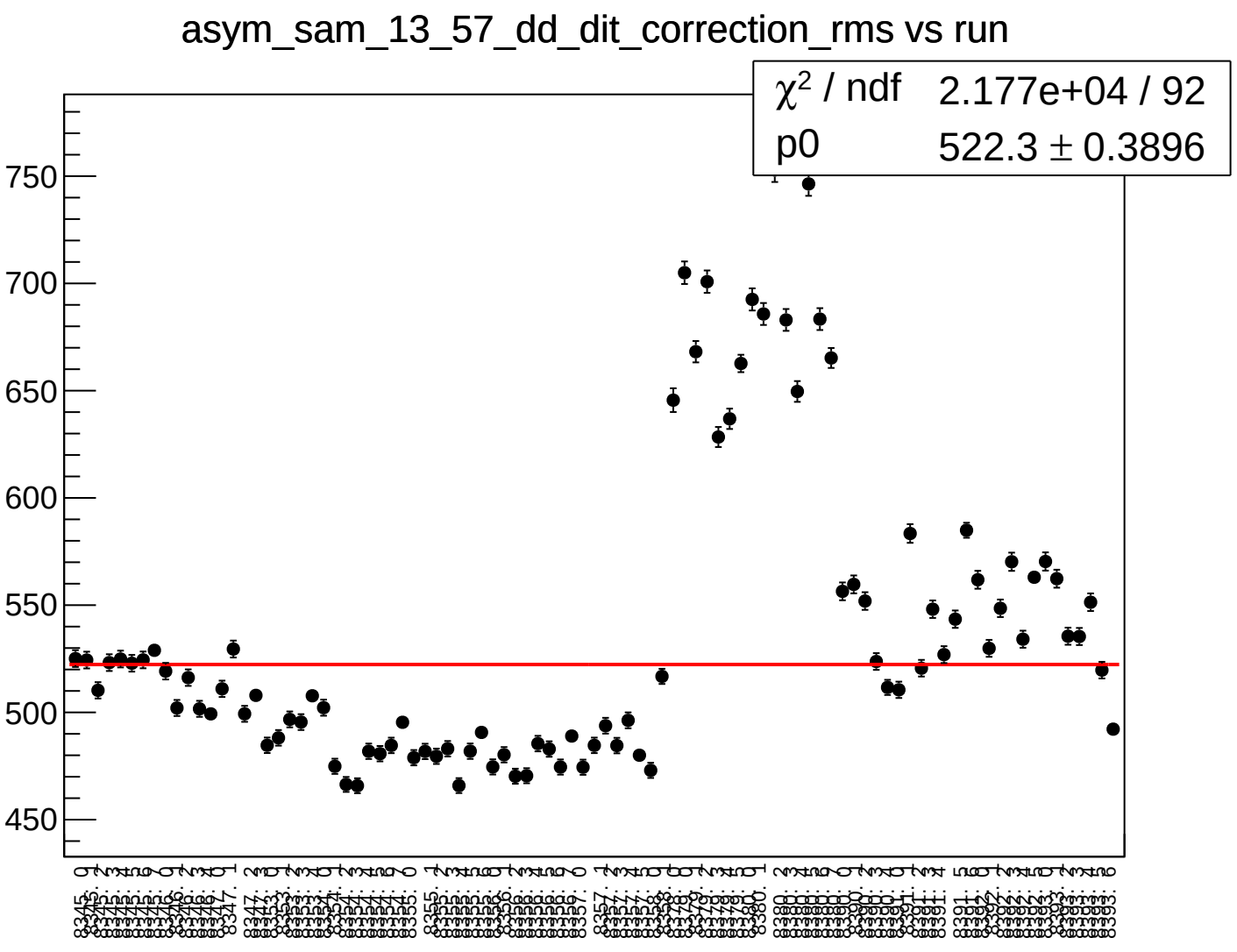

dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 86.39 / 92
p0 −7.02 ± 72.2
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean −67.25
Std Dev 0
2
1
0
−1
−2

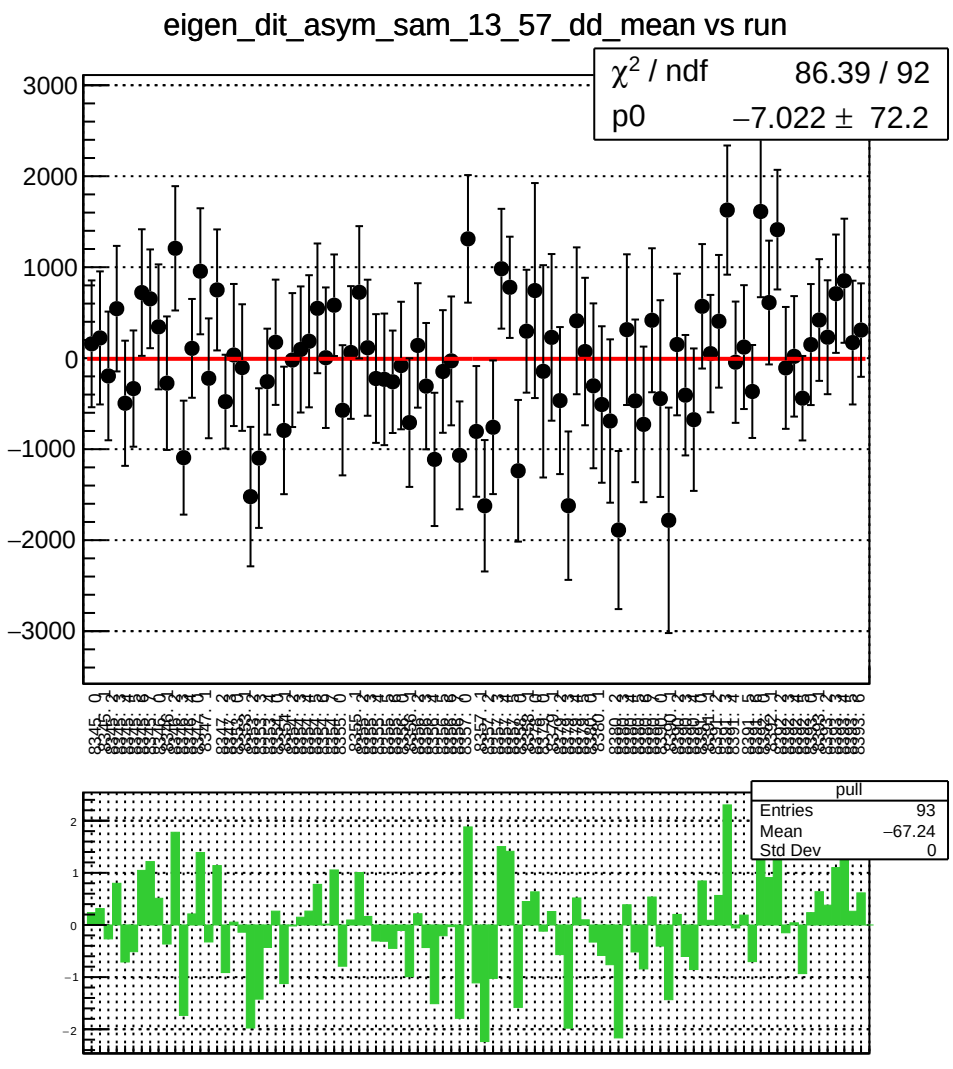

pull1D
Entries 93
Mean −0.02061
Std Dev 0.9636
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

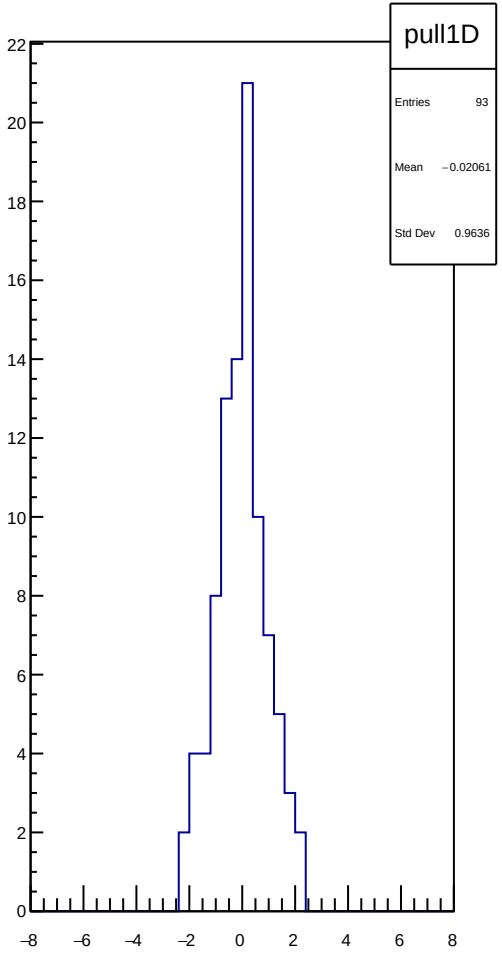

dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 2.437e+04 / 92
p0 68.39 ± 0.05106
120
110
100
90
80
70
60

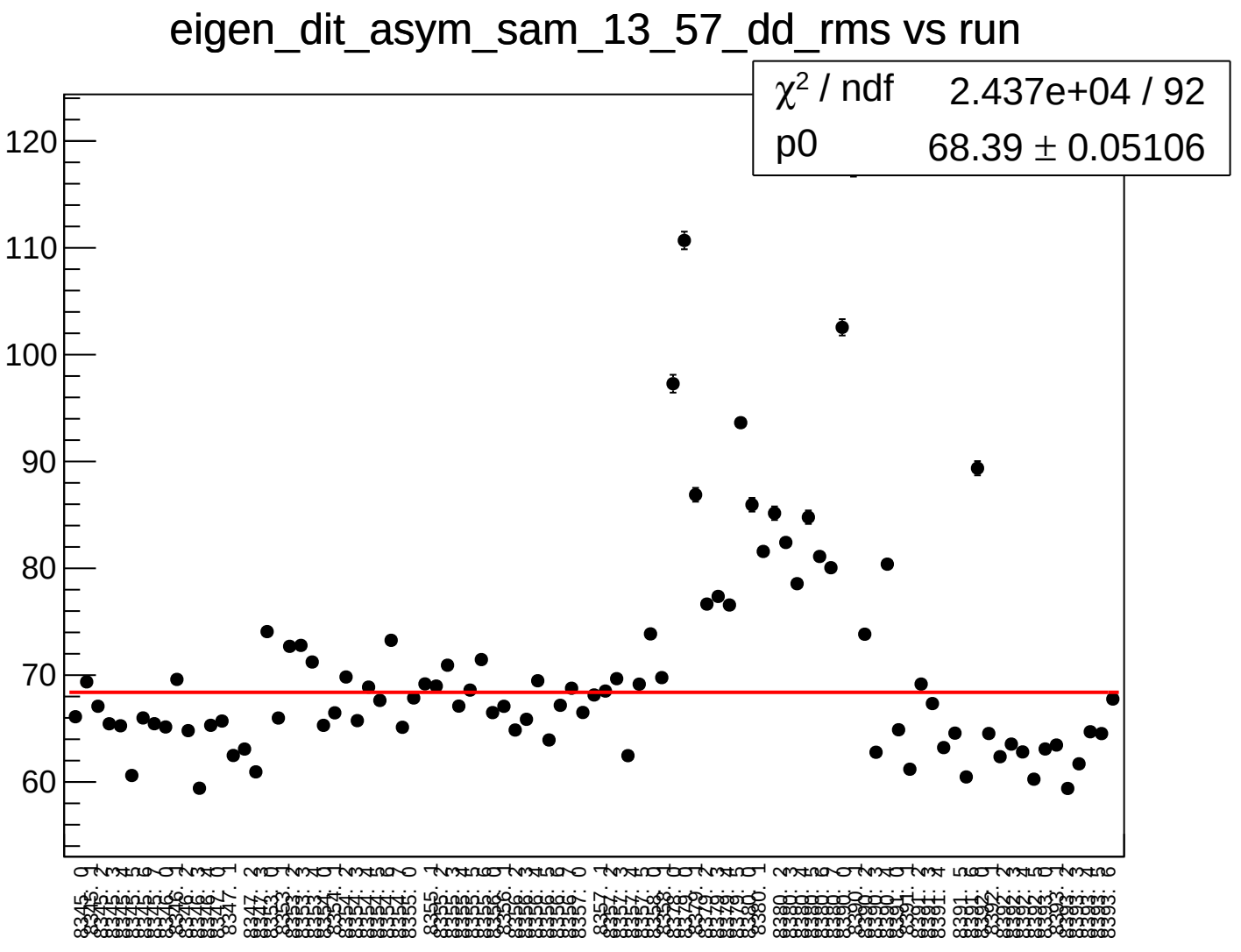

asym_sam_13_57_dd_dit_correction_mean vs run
χ² / ndf 105 / 92
p0 −1563 ± 551
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean 1287
Std Dev 0
3
2
1
0
−1
−2
−3

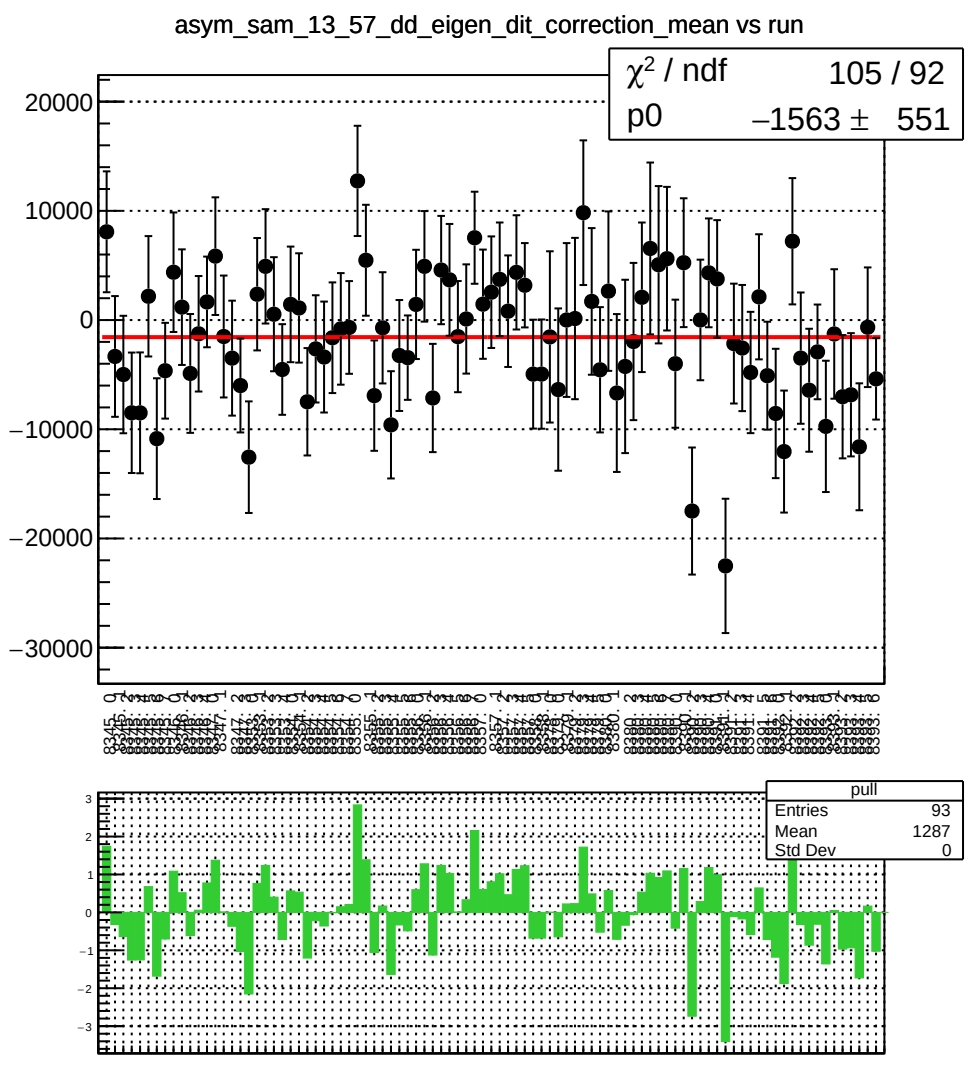

pull1D
Entries 93
Mean −0.003021
Std Dev 1.063
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

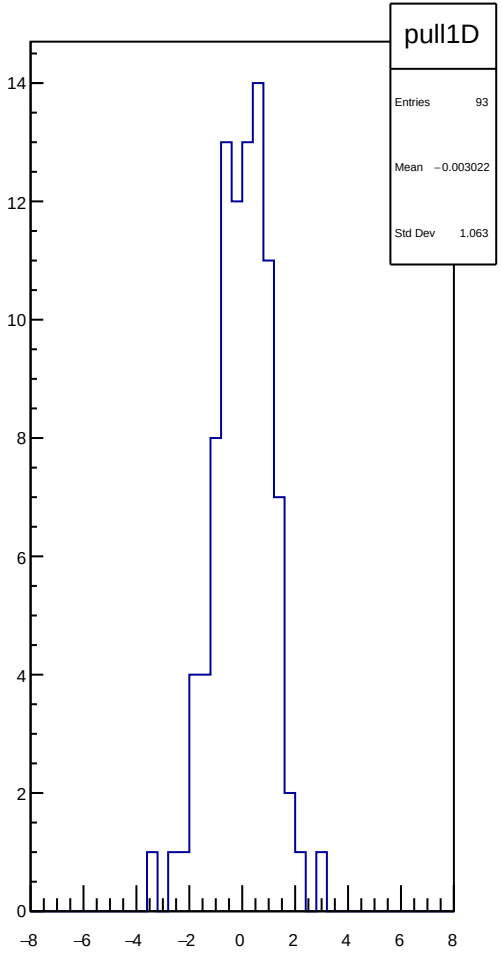

asym_sam_13_57_dd_dit_correction_rms vs run
χ² / ndf 2.177e+04 / 92
p0 522.3 ± 0.3896
750
700
650
600
550
500
450

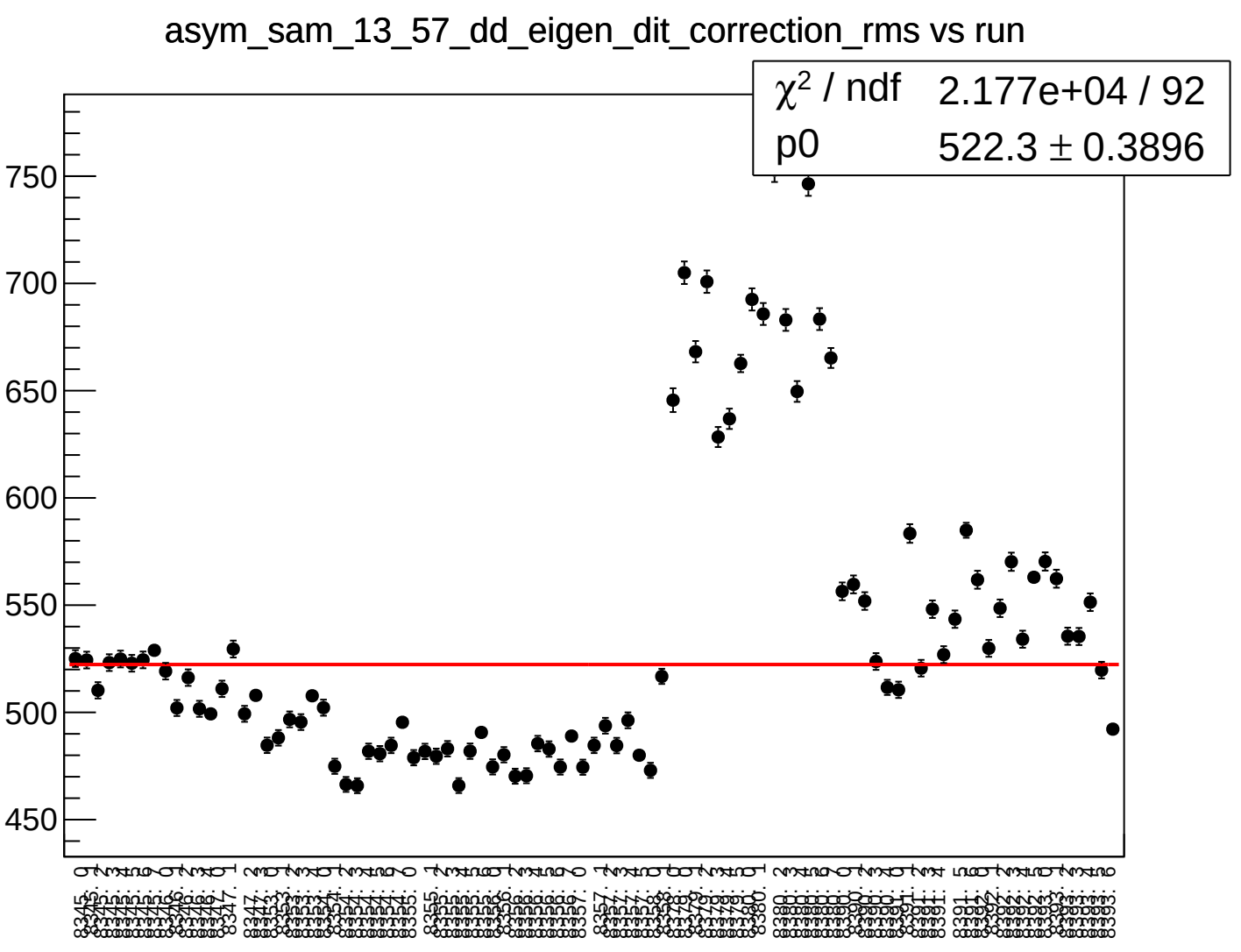

eigen_dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 86.39 / 92
p0 −7.022 ± 72.2
pull
Entries 93
Mean −67.24
Std Dev 0

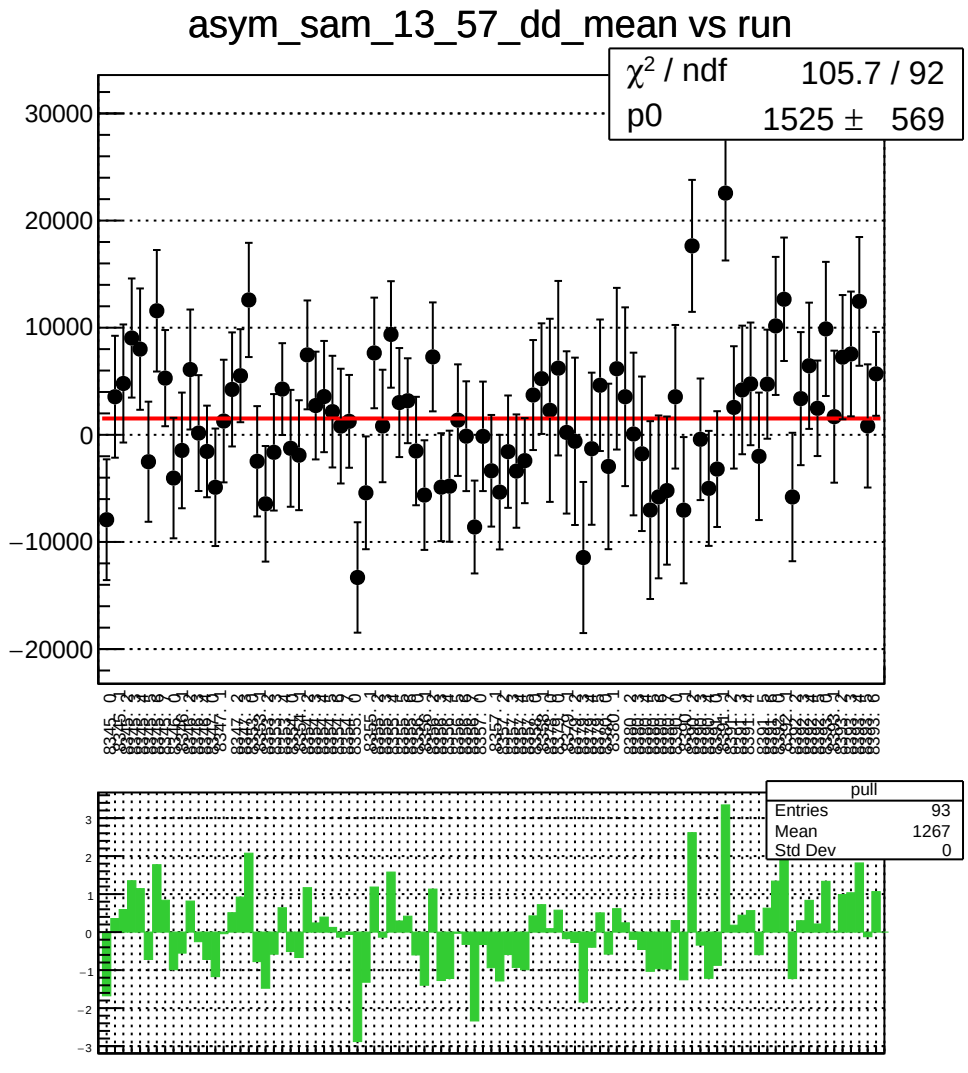

pull1D
Entries 93
Mean −0.02061
Std Dev 0.9636

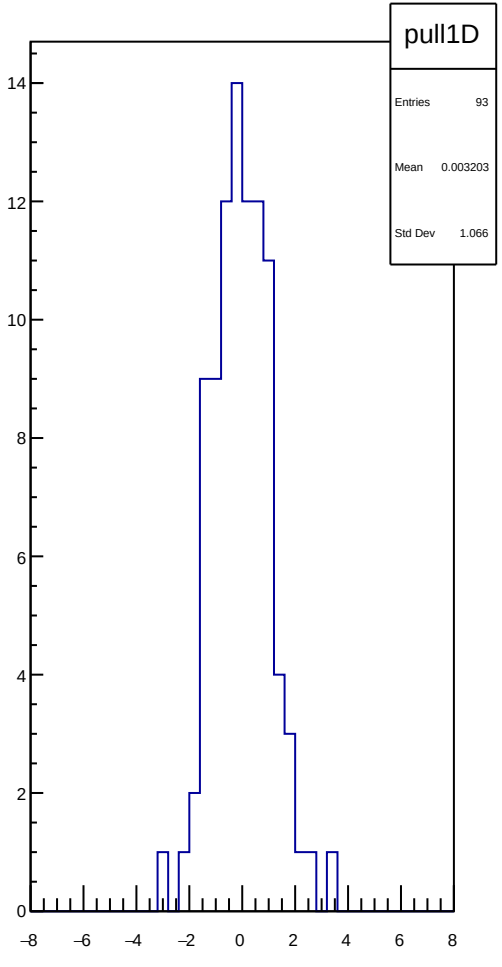

eigen_dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 2.437e+04 / 92
p0 68.39 ± 0.05106
120
110
100
90
80
70
60

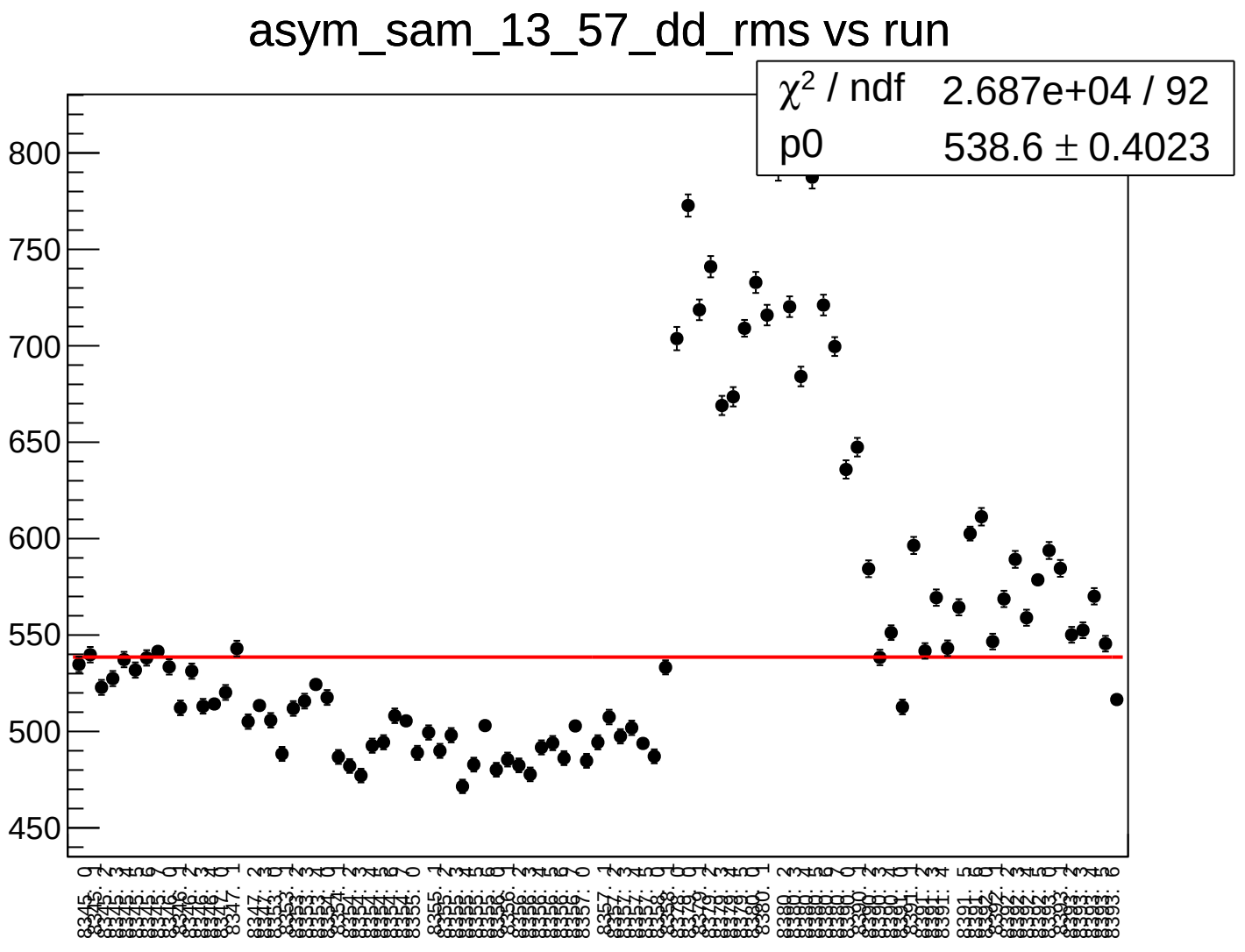

asym_sam_13_57_dd_eigen_dit_correction_mean vs run
χ² / ndf 105 / 92
p0 −1563 ± 551
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean 1287
Std Dev 0
3
2
1
0
−1
−2
−3

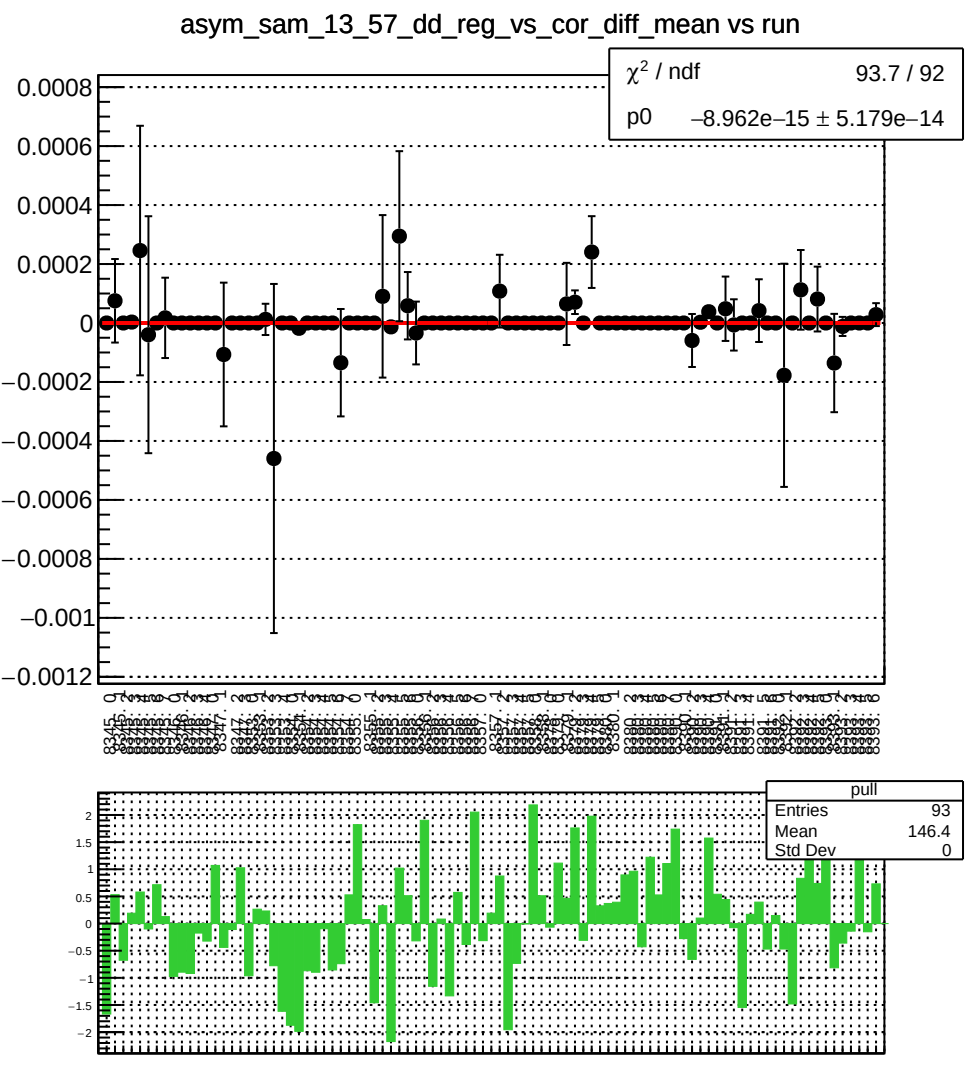

pull1D
Entries 93
Mean −0.003022
Std Dev 1.063
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

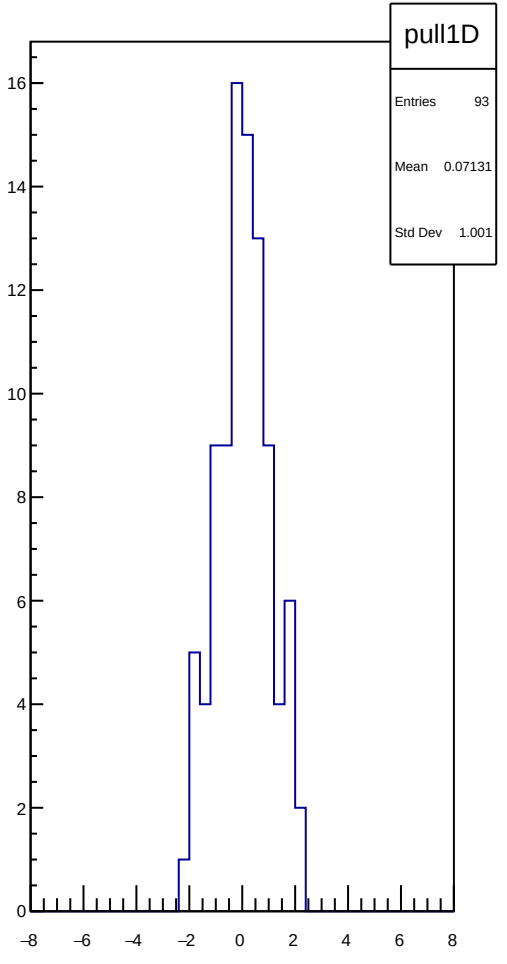

asym_sam_13_57_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.177e+04 / 92
p0 522.3 ± 0.3896
750
700
650
600
550
500
450

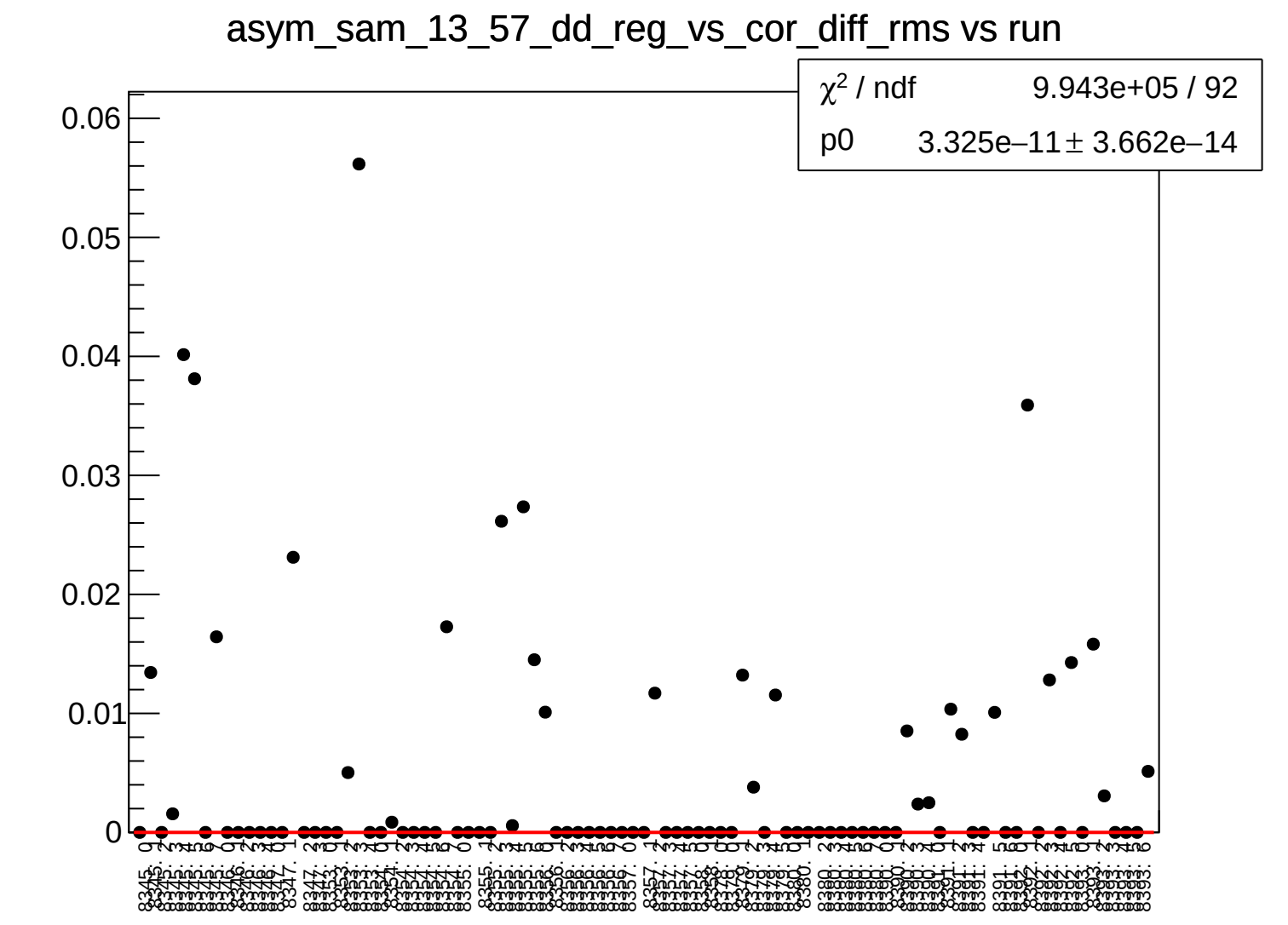

asym_sam_13_57_dd_mean vs run
χ² / ndf 105.7 / 92
p0 1525 ± 569
30000
20000
10000
0
−10000
−20000
pull
Entries 93
Mean 1267
Std Dev 0
3
2
1
0
−1
−2
−3

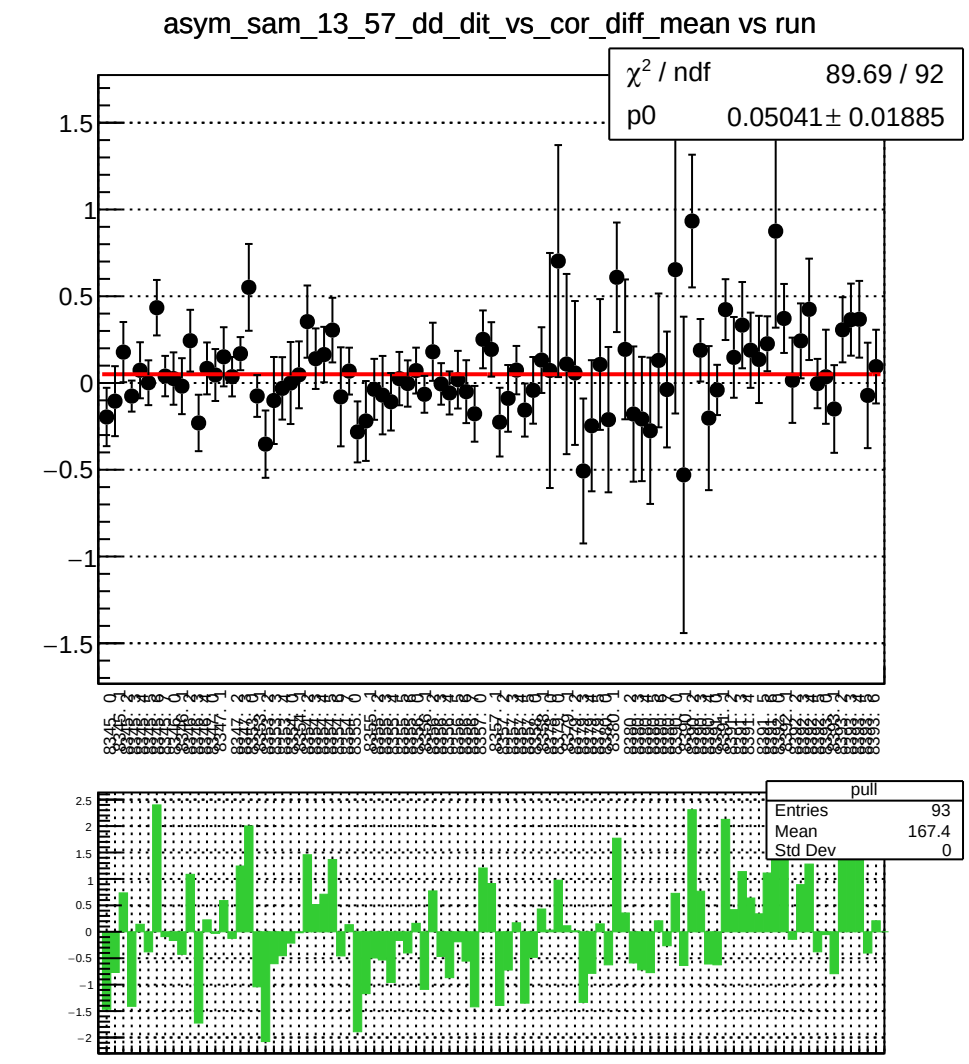

pull1D
Entries 93
Mean 0.003203
Std Dev 1.066
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

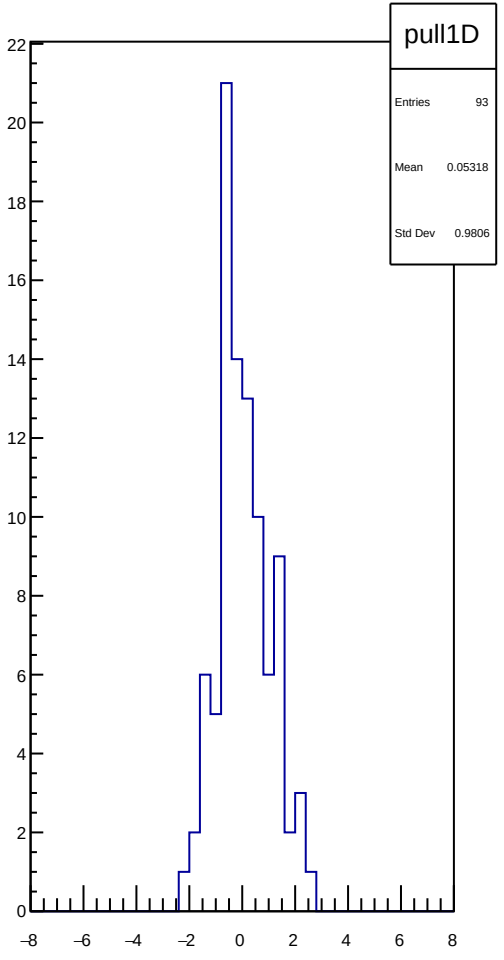

asym_sam_13_57_dd_rms vs run
χ² / ndf 2.687e+04 / 92
p0 538.6 ± 0.4023
800
750
700
650
600
550
500
450

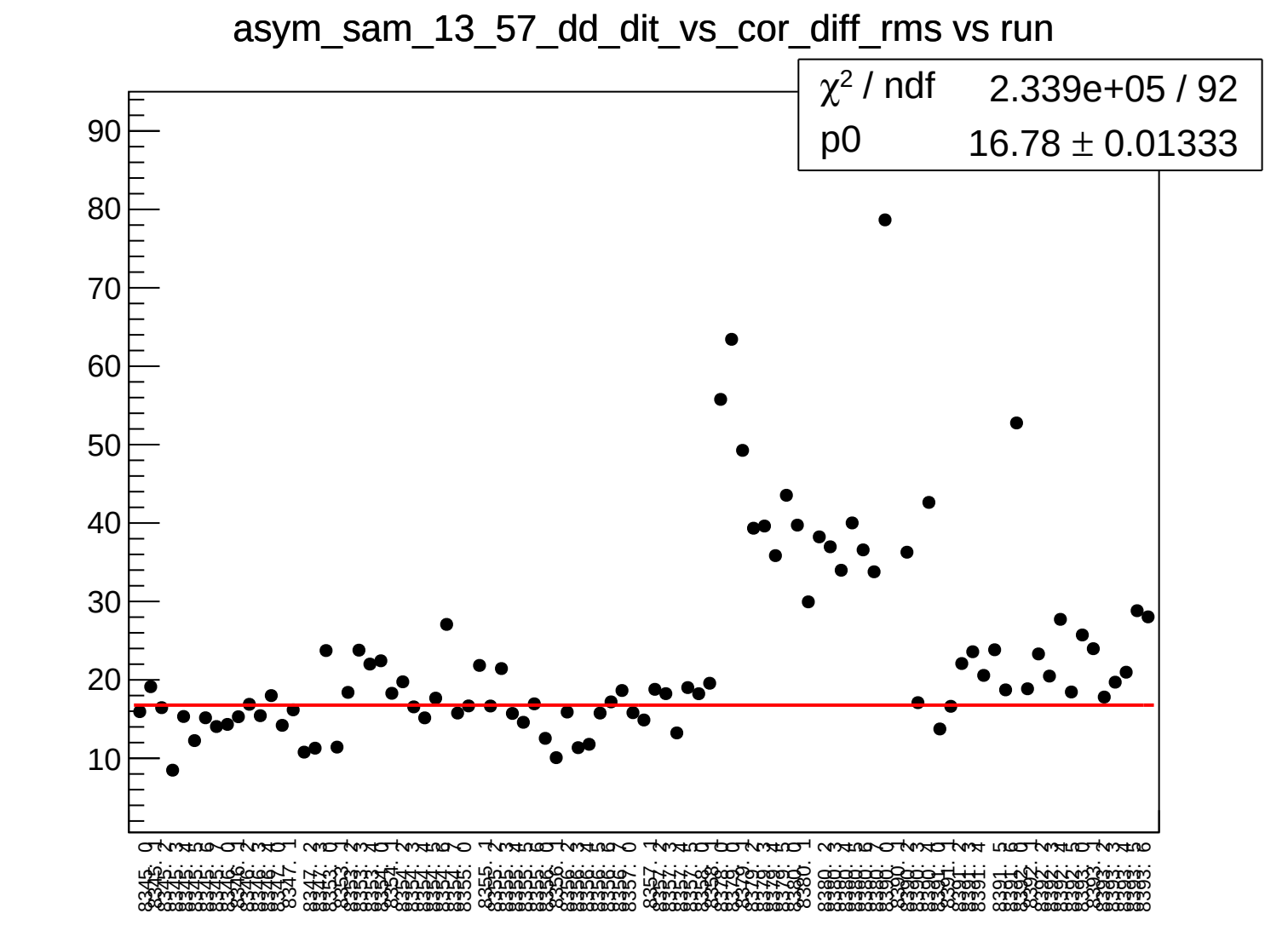

asym_sam_13_57_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 93.7 / 92
p0 −8.962e−15 ± 5.179e−14
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
pull
Entries 93
Mean 146.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

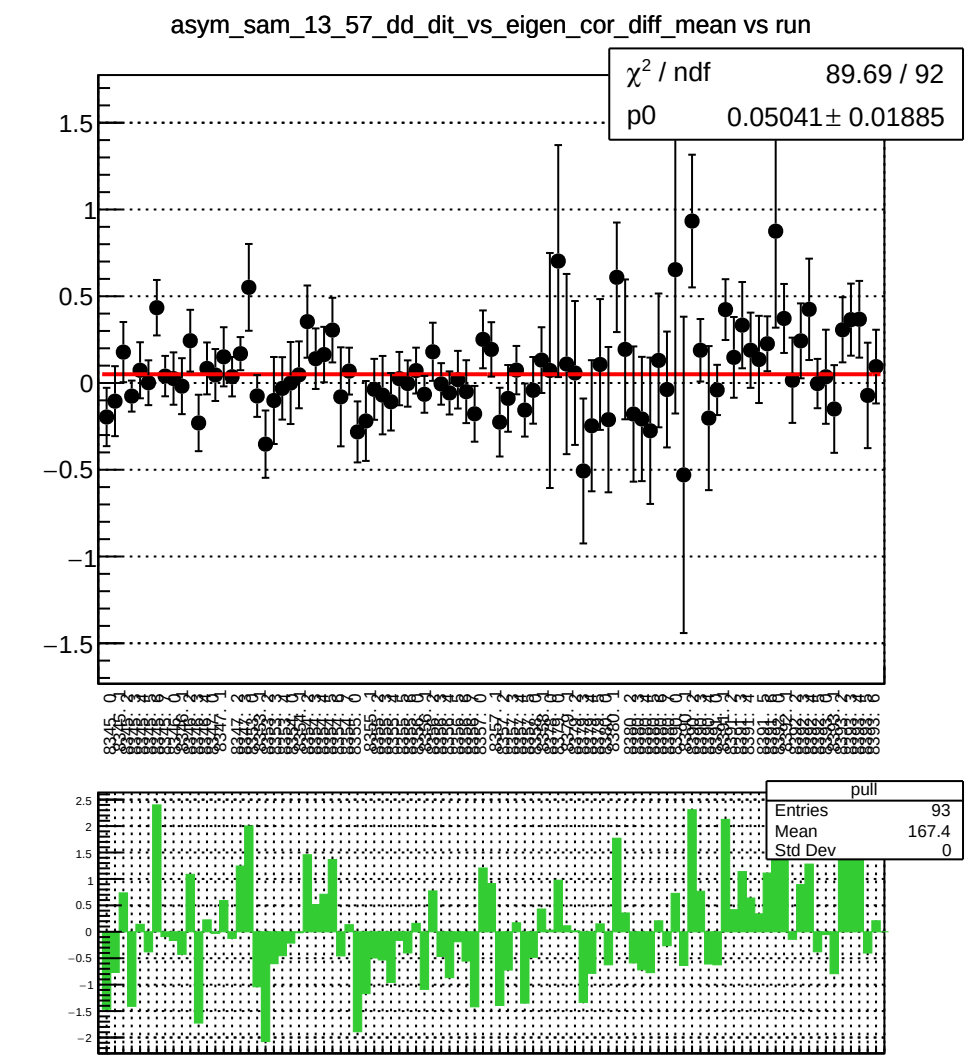

pull1D
Entries 93
Mean 0.07131
Std Dev 1.001
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

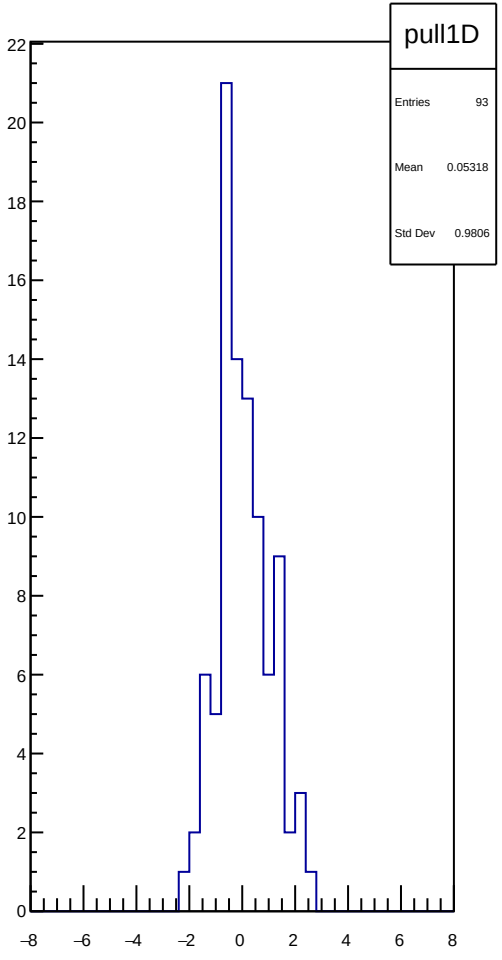

asym_sam_13_57_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.943e+05 / 92
p0 3.325e−11 ± 3.662e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

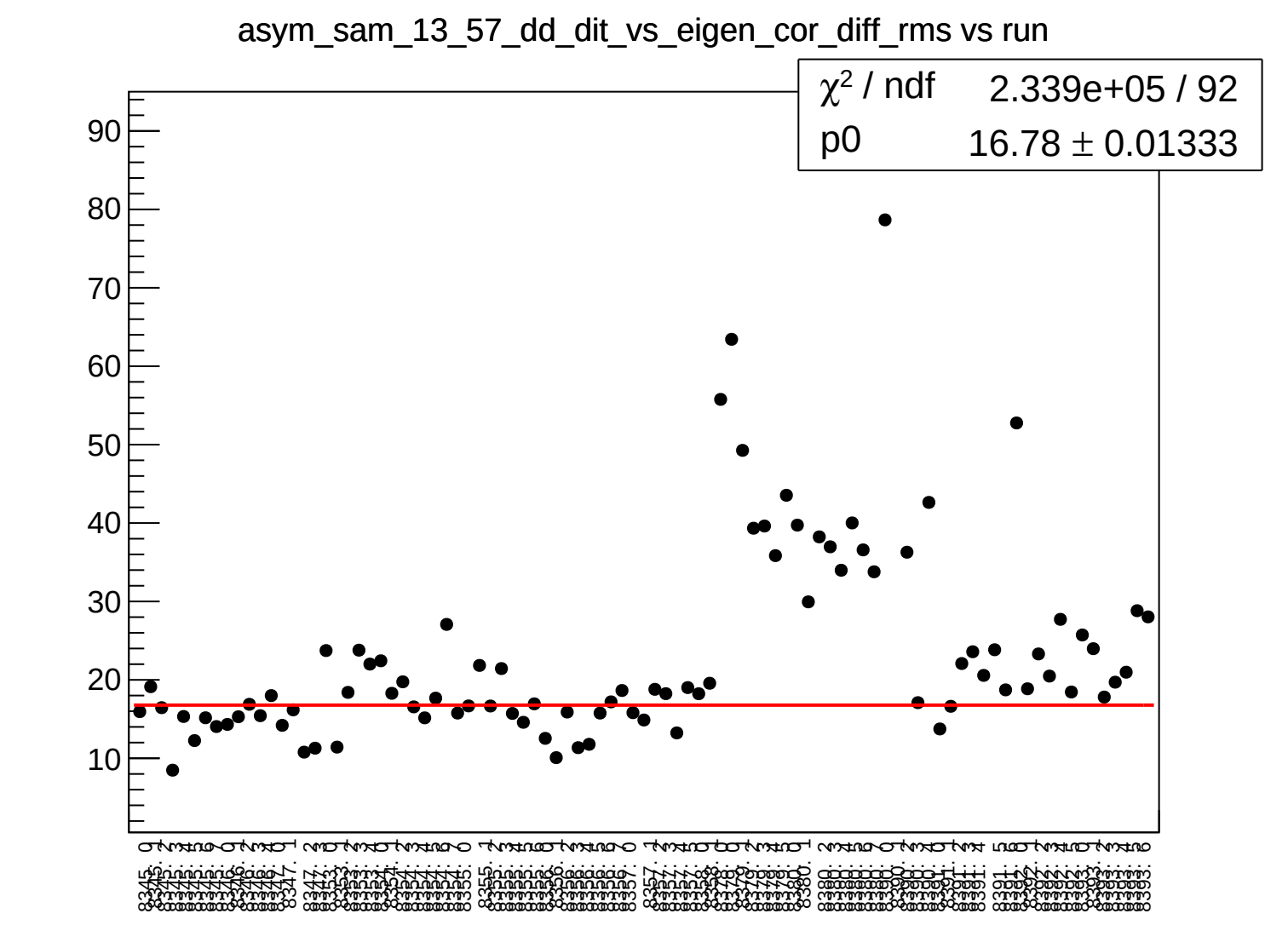

asym_sam_13_57_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 89.69 / 92
p0 0.05041 ± 0.01885
pull
Entries 93
Mean 167.4
Std Dev 0

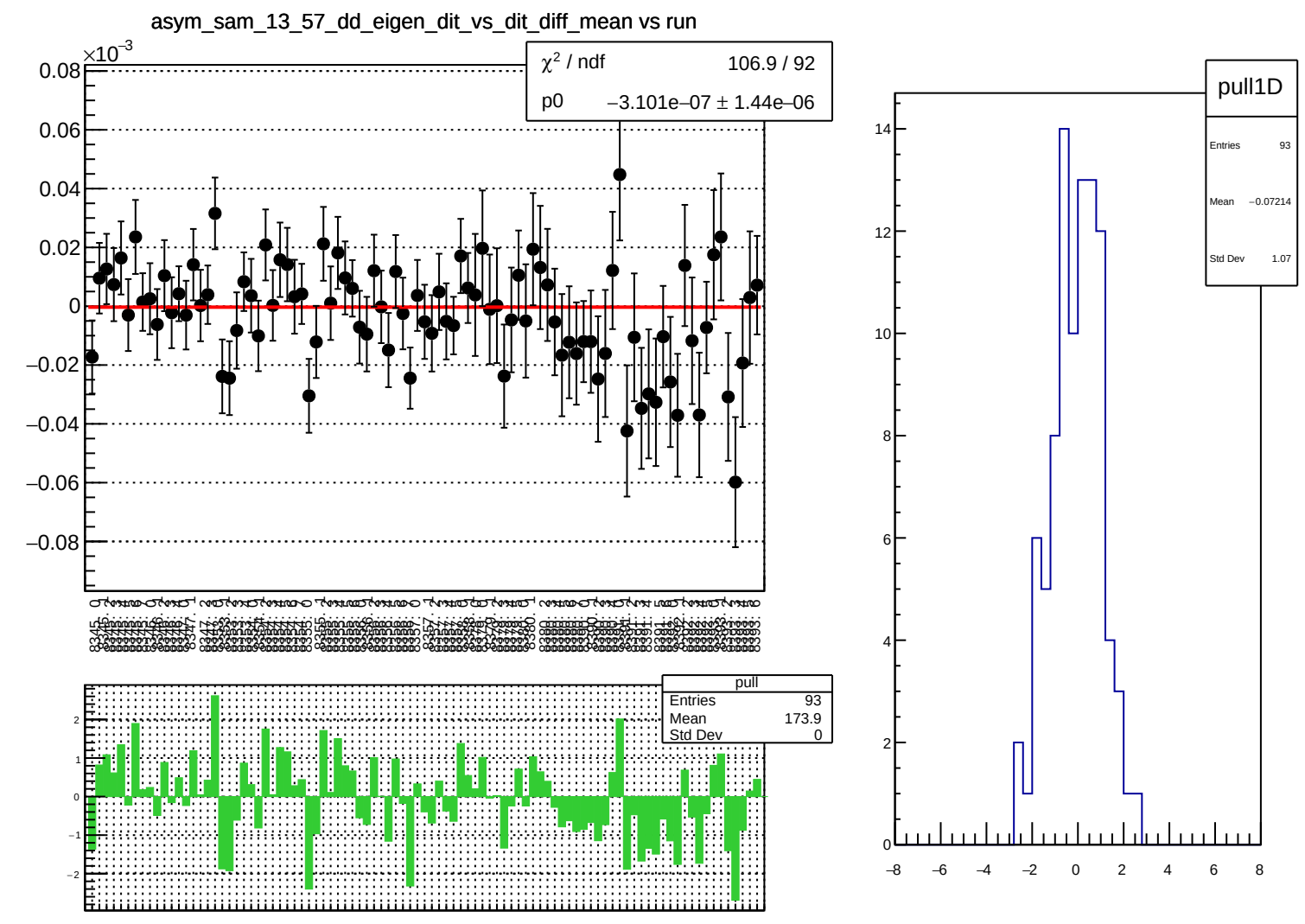

pull1D
Entries 93
Mean 0.05318
Std Dev 0.9806

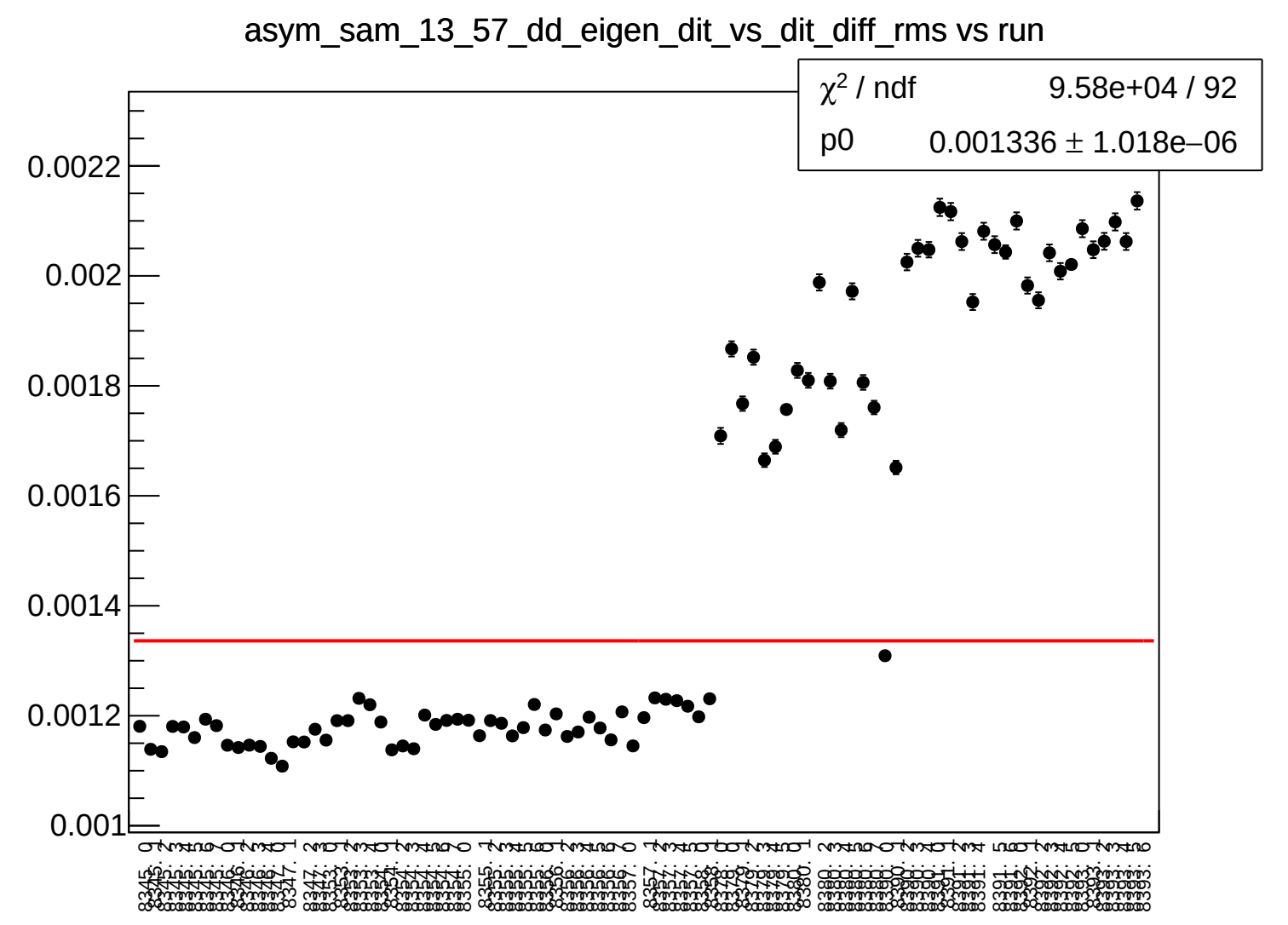

asym_sam_13_57_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.339e+05 / 92
p0 16.78 ± 0.01333
90
80
70
60
50
40
30
20
10

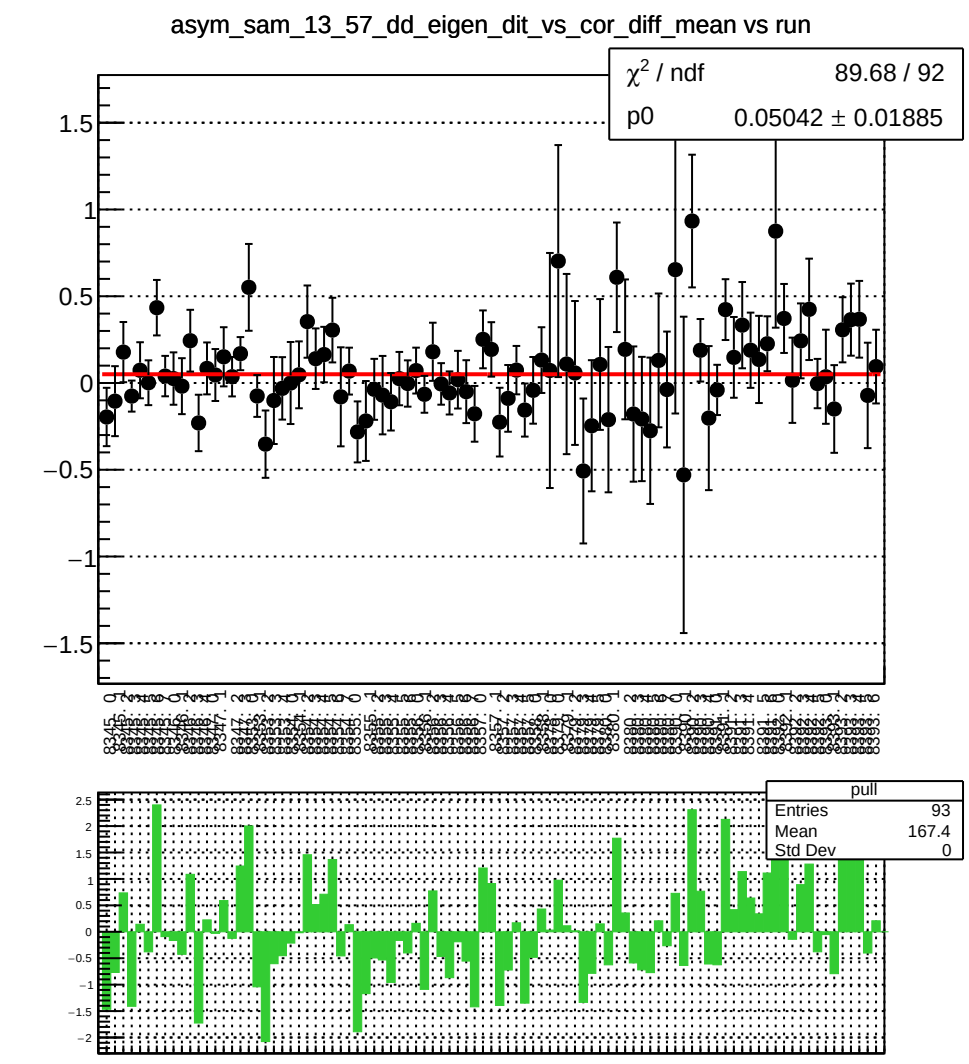

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.69 / 92
p0 0.05041 ± 0.01885
pull
Entries 93
Mean 167.4
Std Dev 0

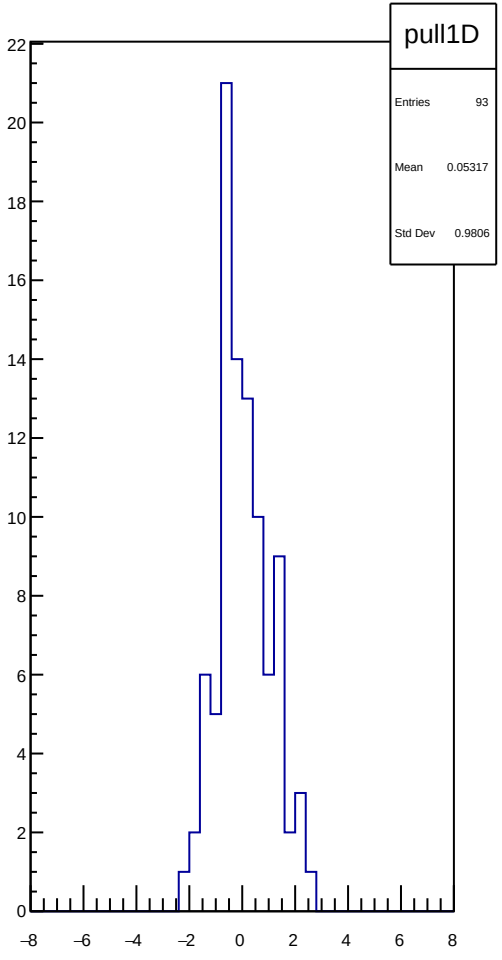

pull1D
Entries 93
Mean 0.05318
Std Dev 0.9806

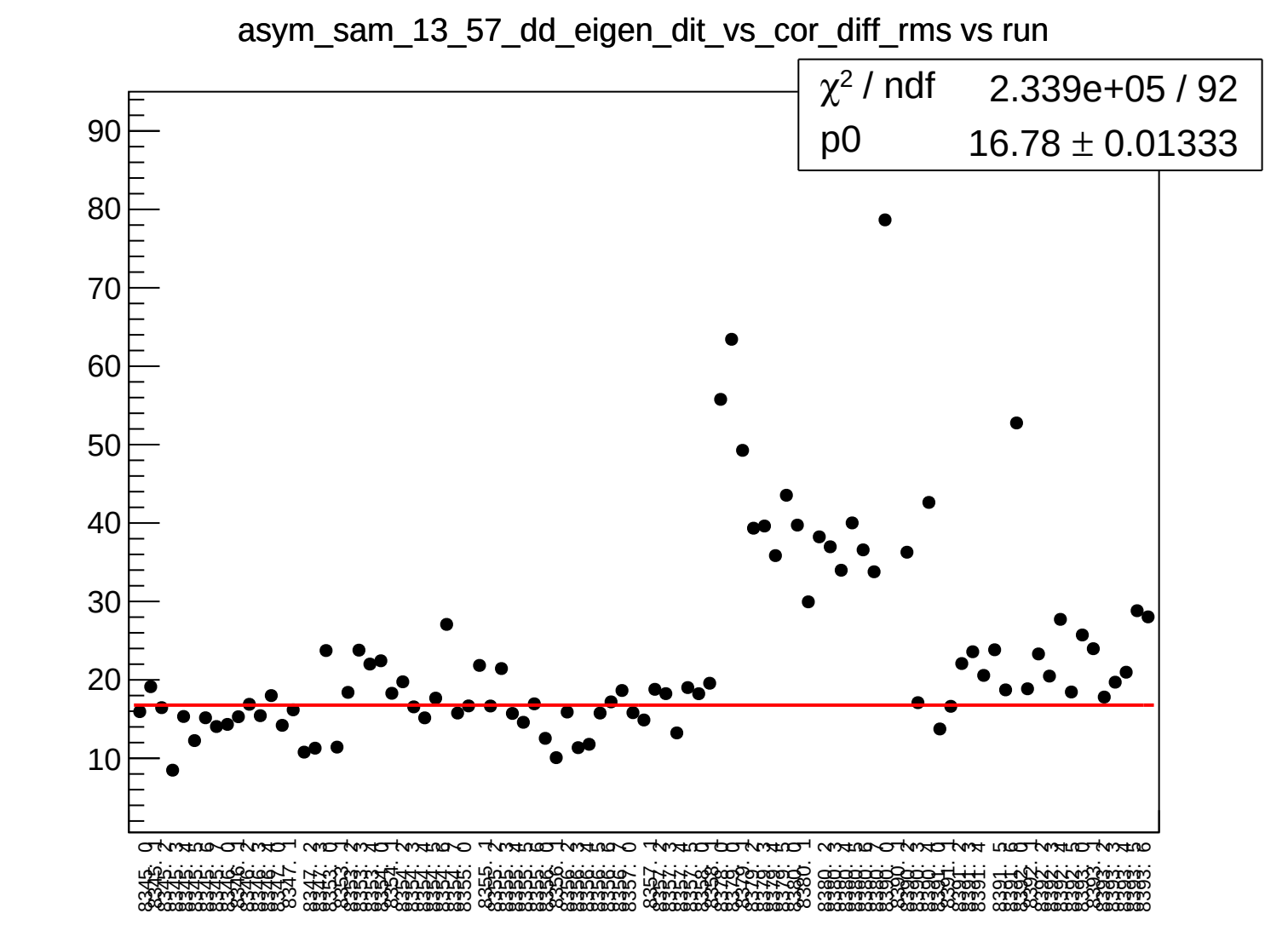

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.339e+05 / 92
p0 16.78 ± 0.01333
90
80
70
60
50
40
30
20
10

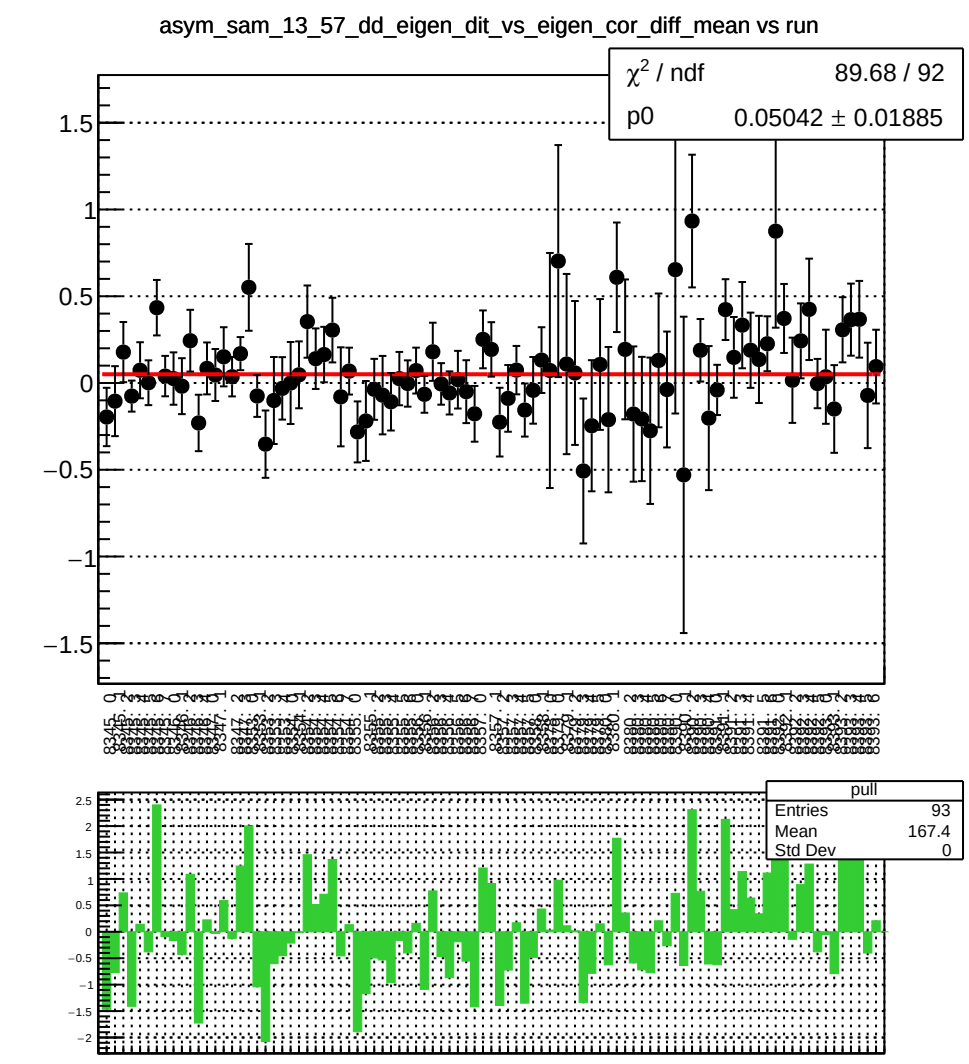

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 106.9 / 92
p0 −3.101e−07 ± 1.44e−06
pull
Entries 93
Mean 173.9
Std Dev 0
pull1D
Entries 93
Mean −0.07214
Std Dev 1.07

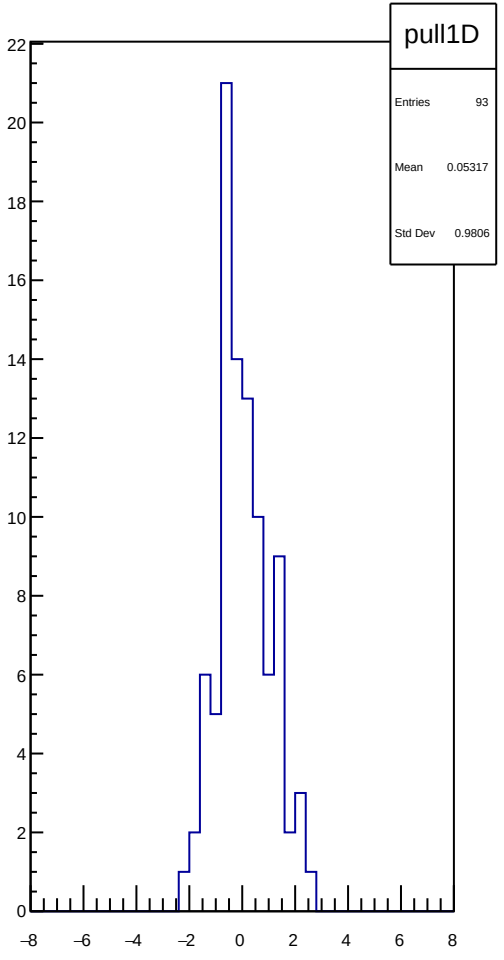

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.58e+04 / 92
p0 0.001336 ± 1.018e−06
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001

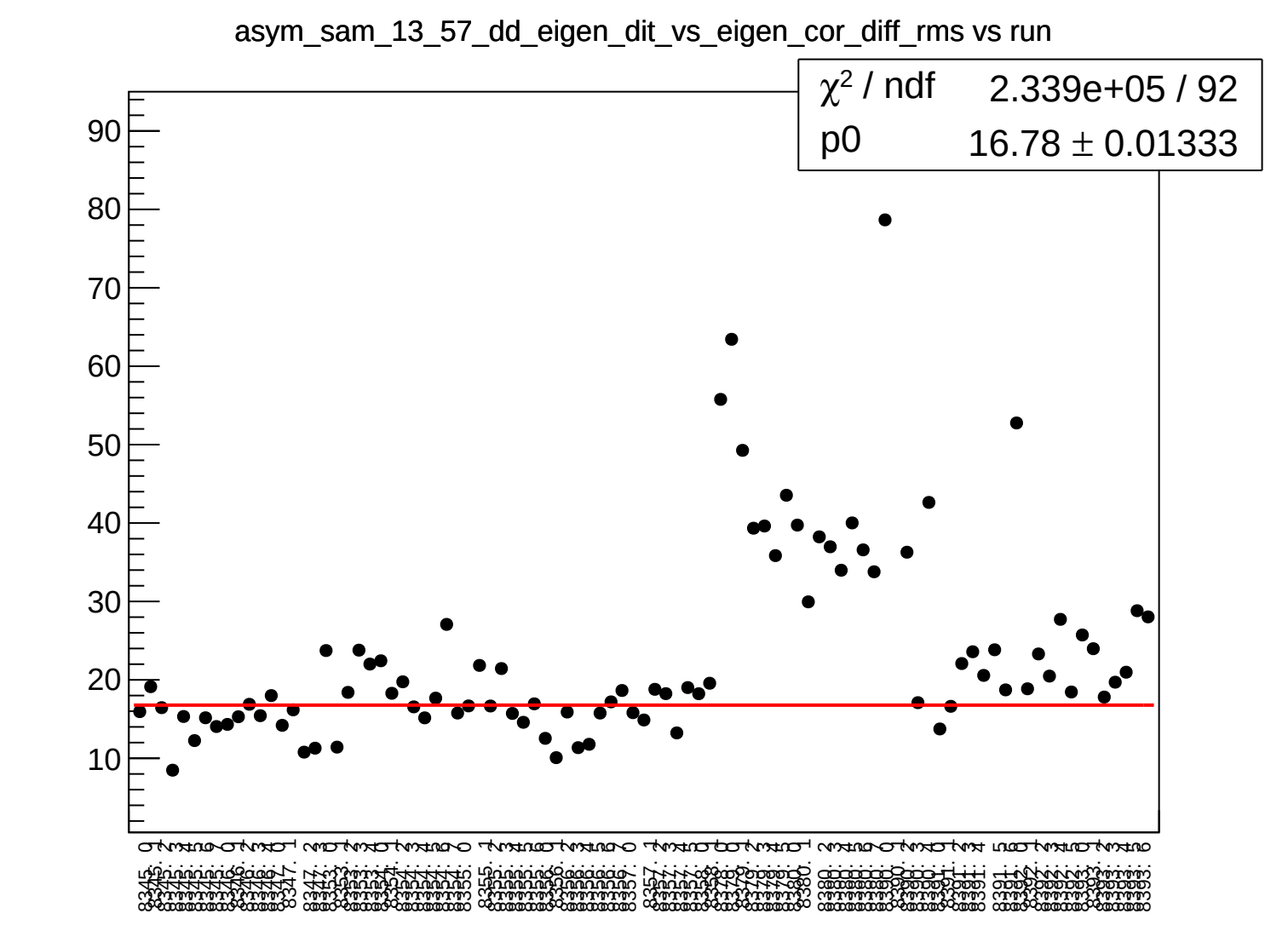

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.68 / 92
p0 0.05042 ± 0.01885
pull
Entries 93
Mean 167.4
Std Dev 0

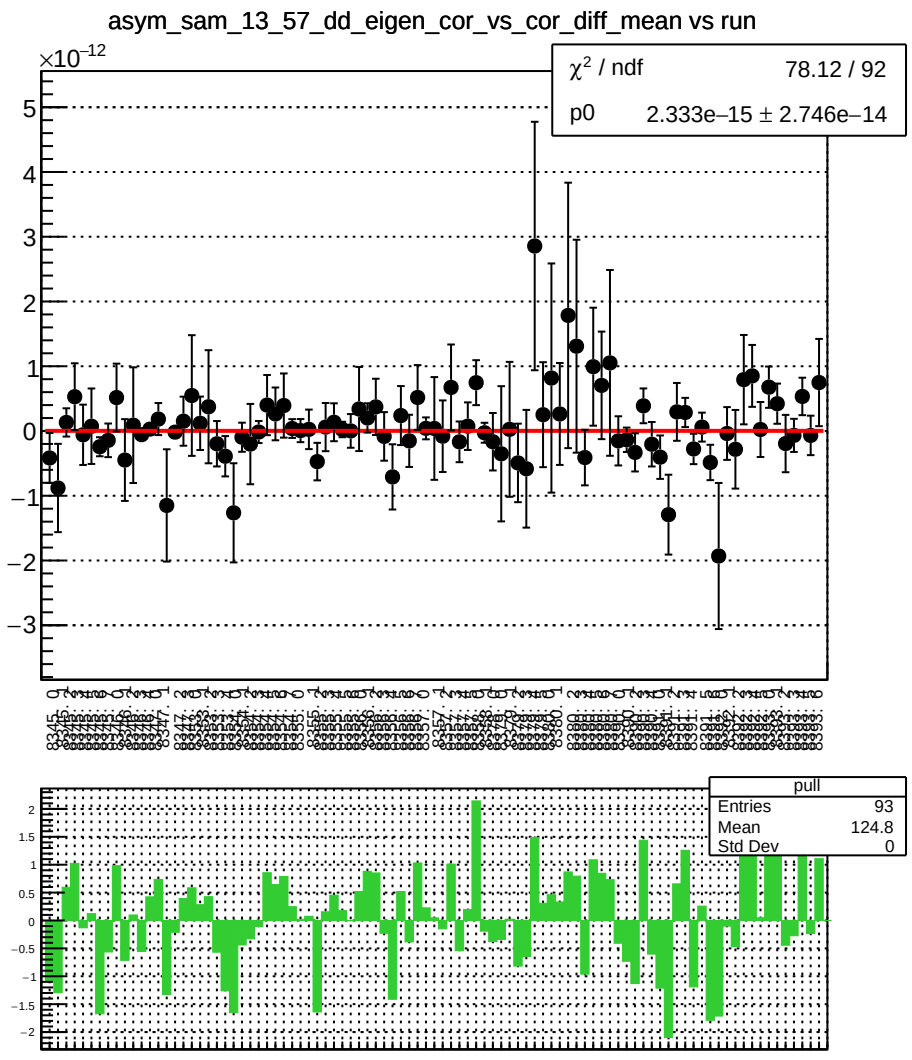

pull1D
Entries 93
Mean 0.05317
Std Dev 0.9806

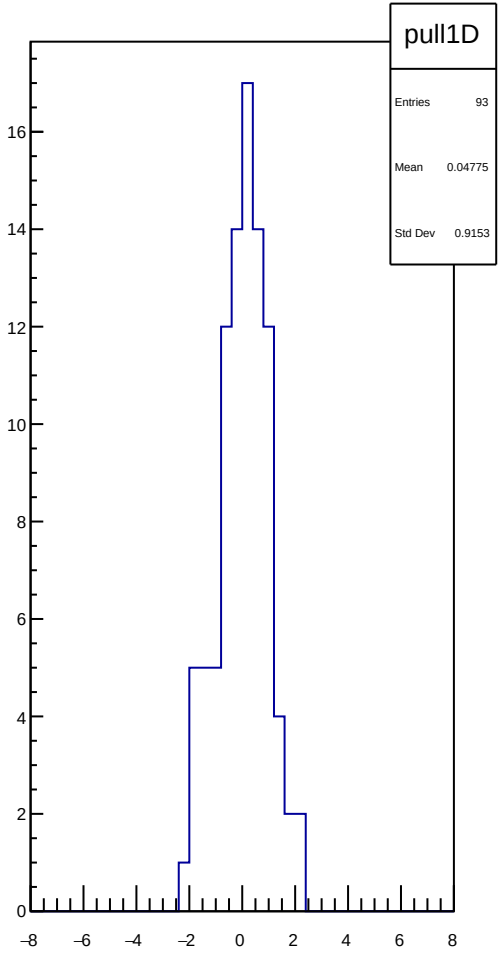

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.339e+05 / 92
p0 16.78 ± 0.01333
90
80
70
60
50
40
30
20
10

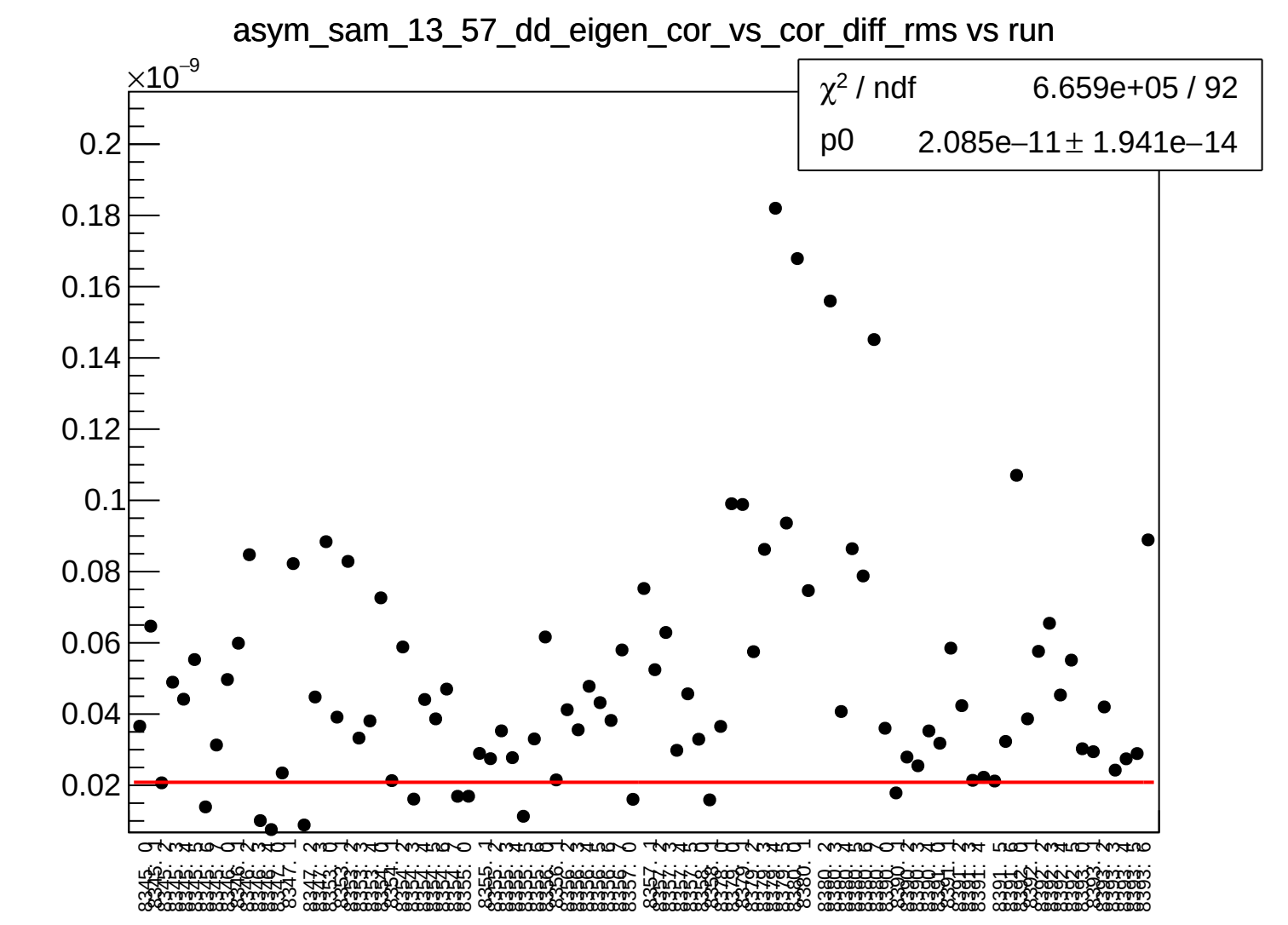

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.68 / 92
p0 0.05042 ± 0.01885
pull
Entries 93
Mean 167.4
Std Dev 0

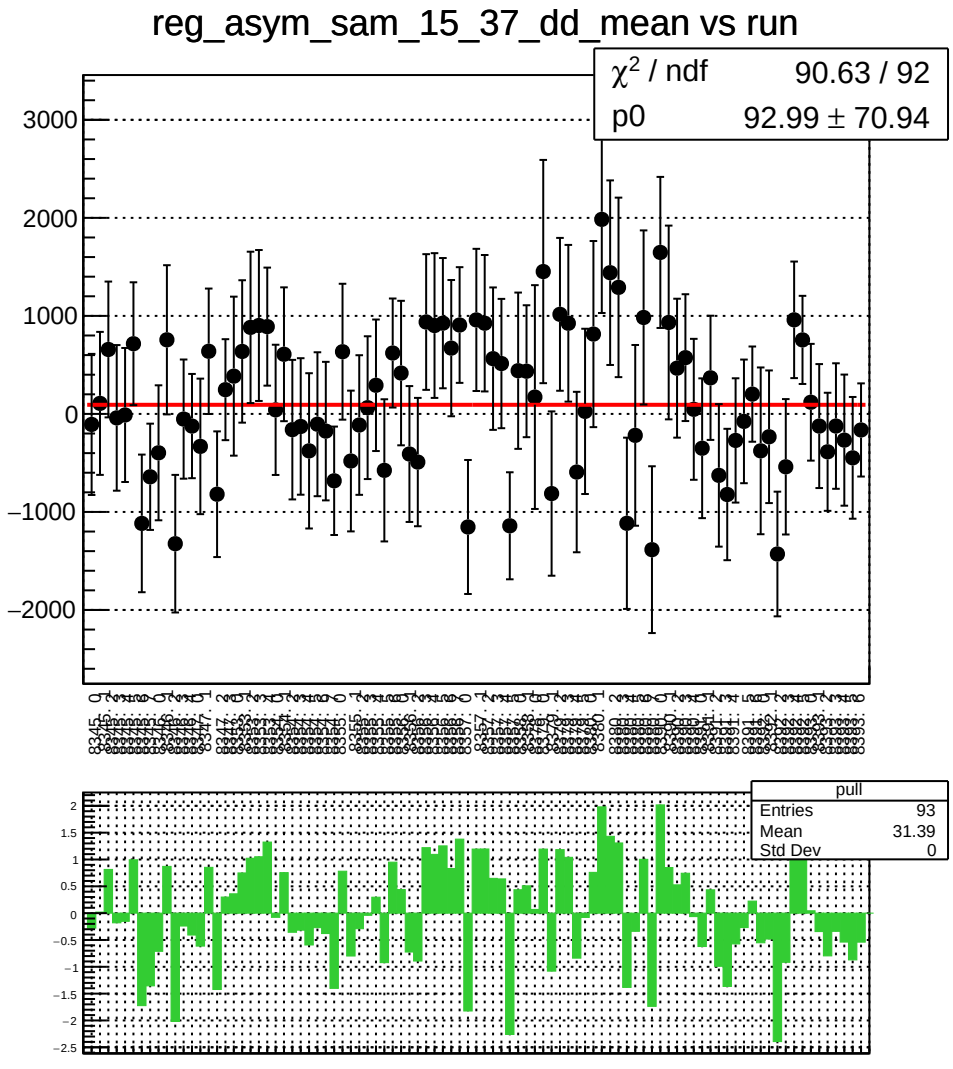

pull1D
Entries 93
Mean 0.05317
Std Dev 0.9806

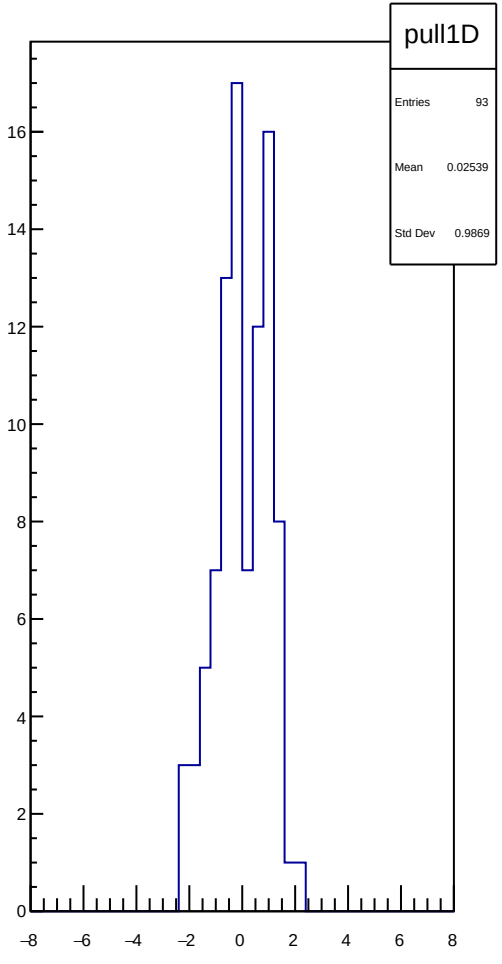

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.339e+05 / 92
p0 16.78 ± 0.01333
90
80
70
60
50
40
30
20
10

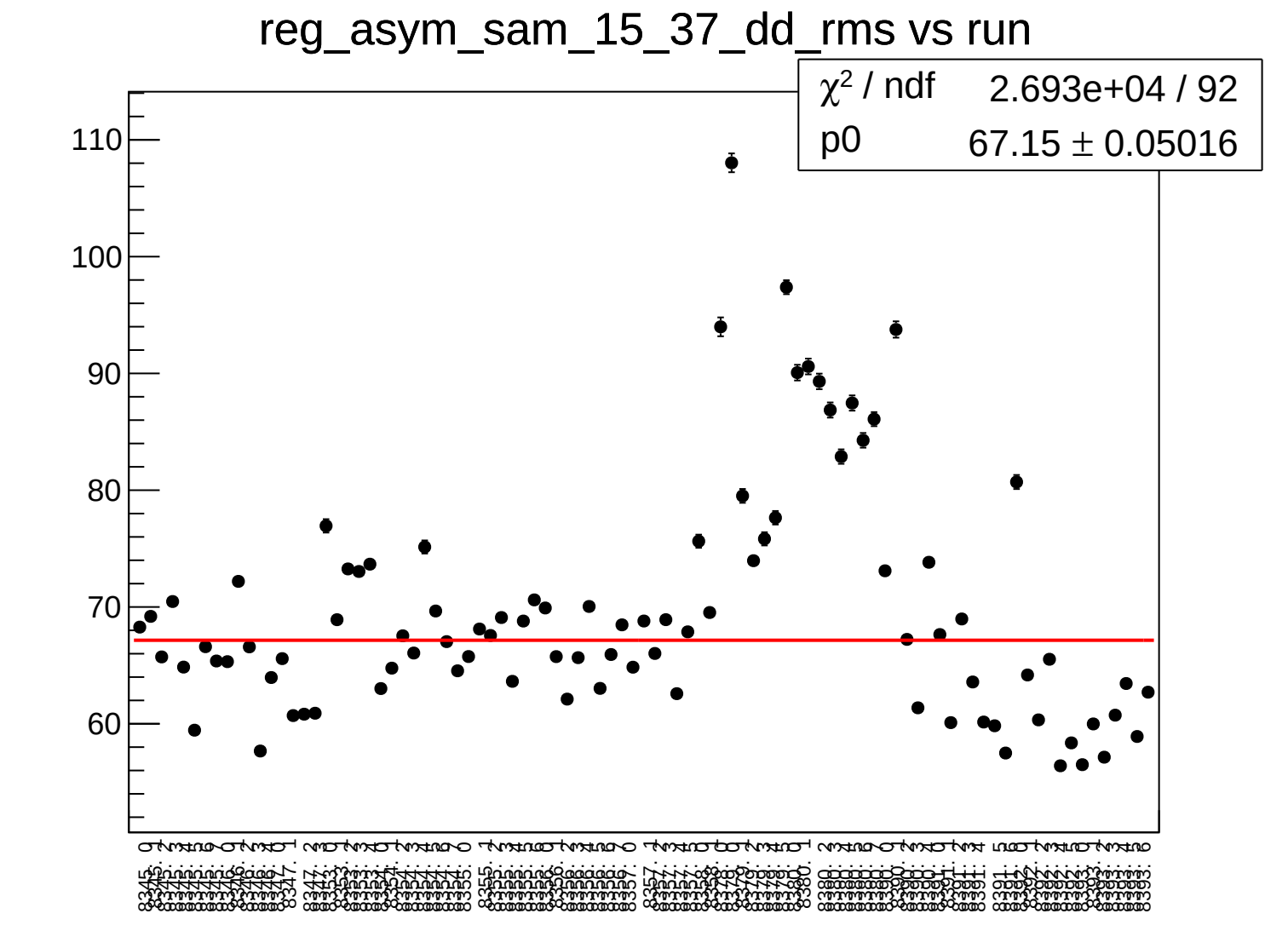

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.12 / 92
p0 2.333e−15 ± 2.746e−14
pull
Entries 93
Mean 124.8
Std Dev 0

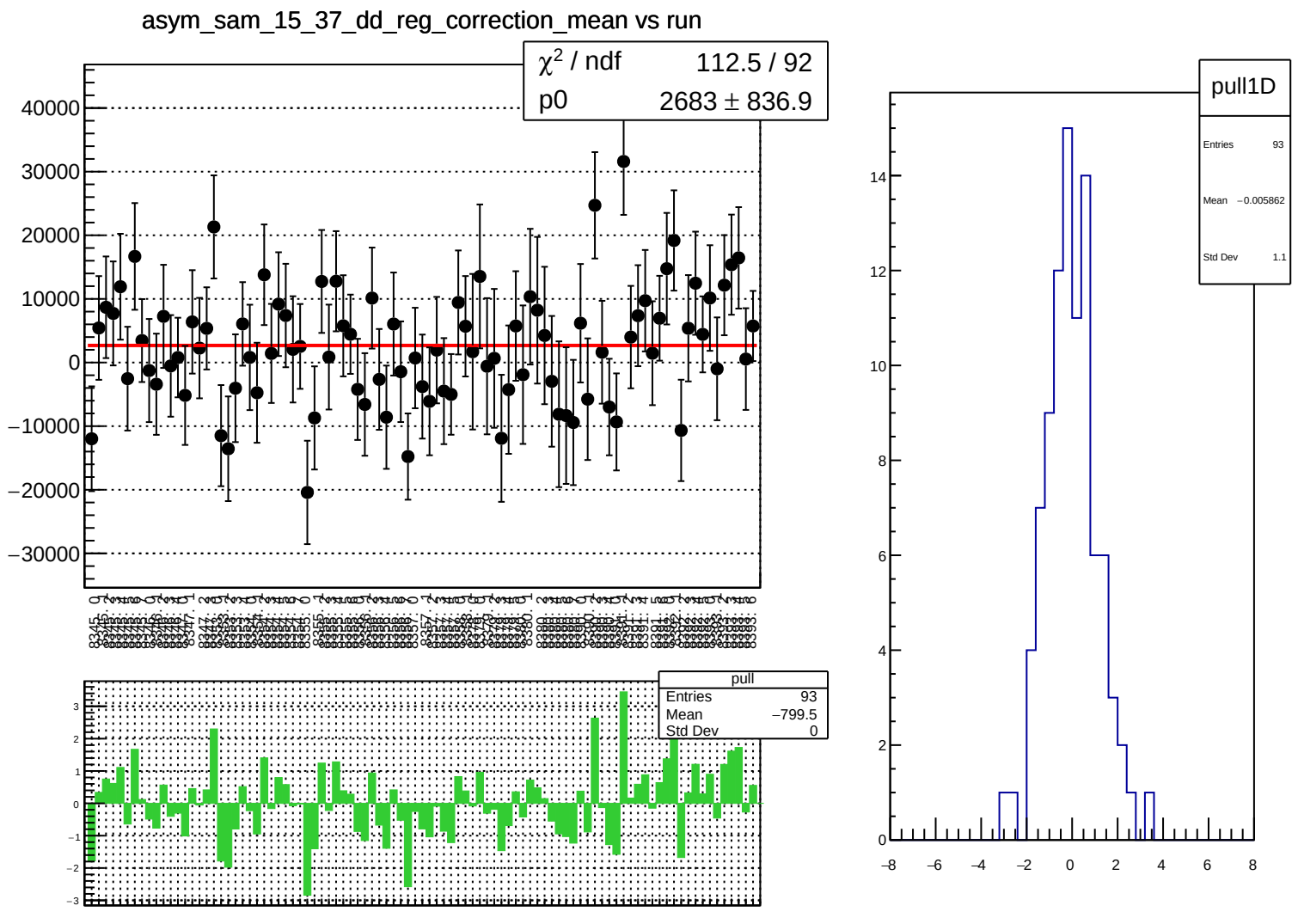

pull1D
Entries 93
Mean 0.04775
Std Dev 0.9153

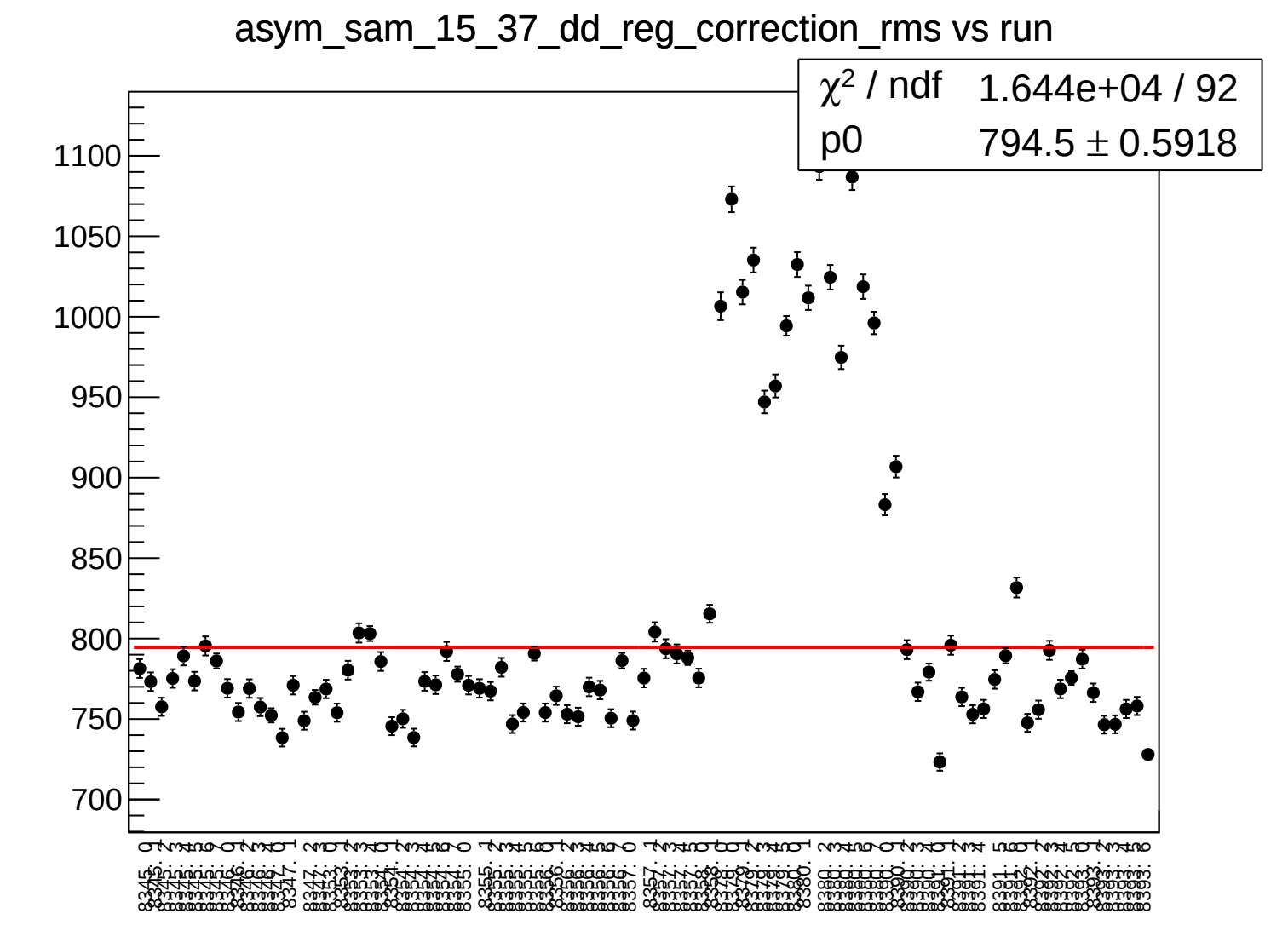

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.659e+05 / 92
p0 2.085e−11 ± 1.941e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

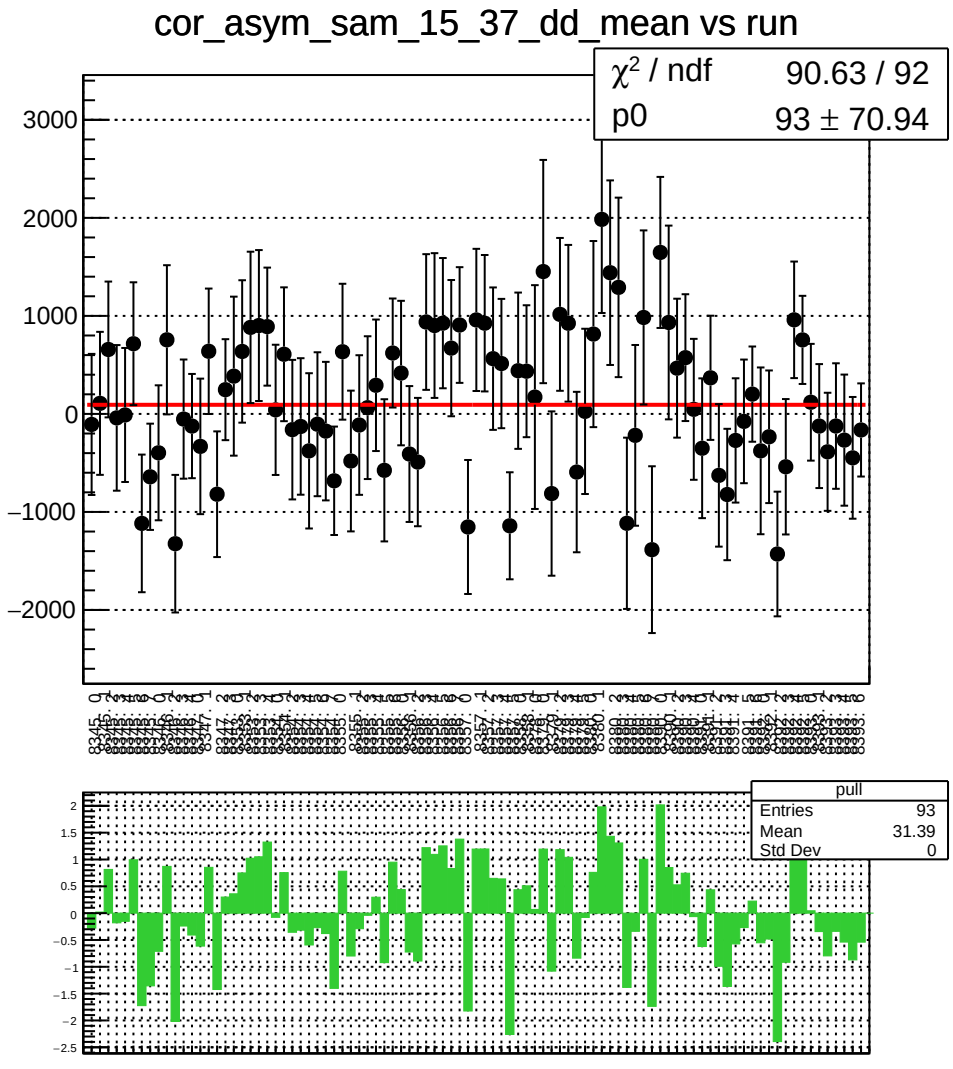

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 90.63 / 92
p0 92.99 ± 70.94
3000
2000
1000
0
−1000
−2000
pull
Entries 93
Mean 31.39
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

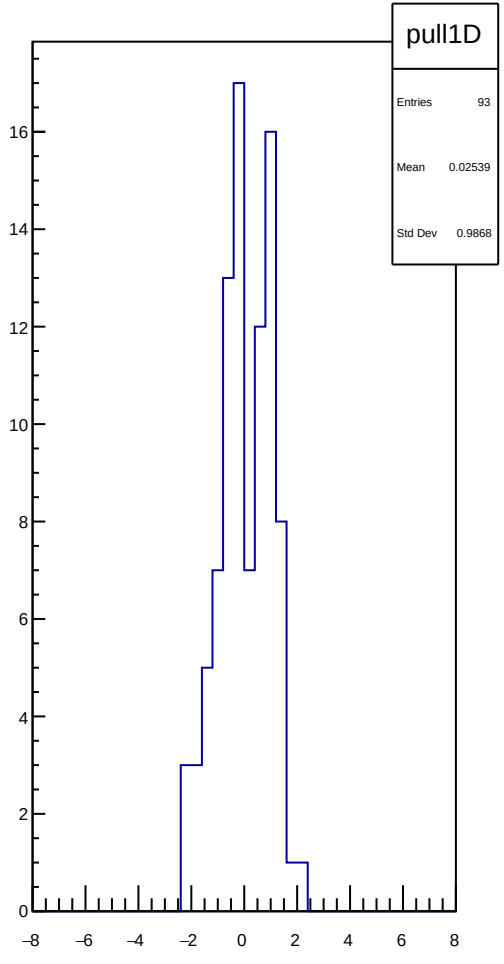

pull1D
Entries 93
Mean 0.02539
Std Dev 0.9869
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

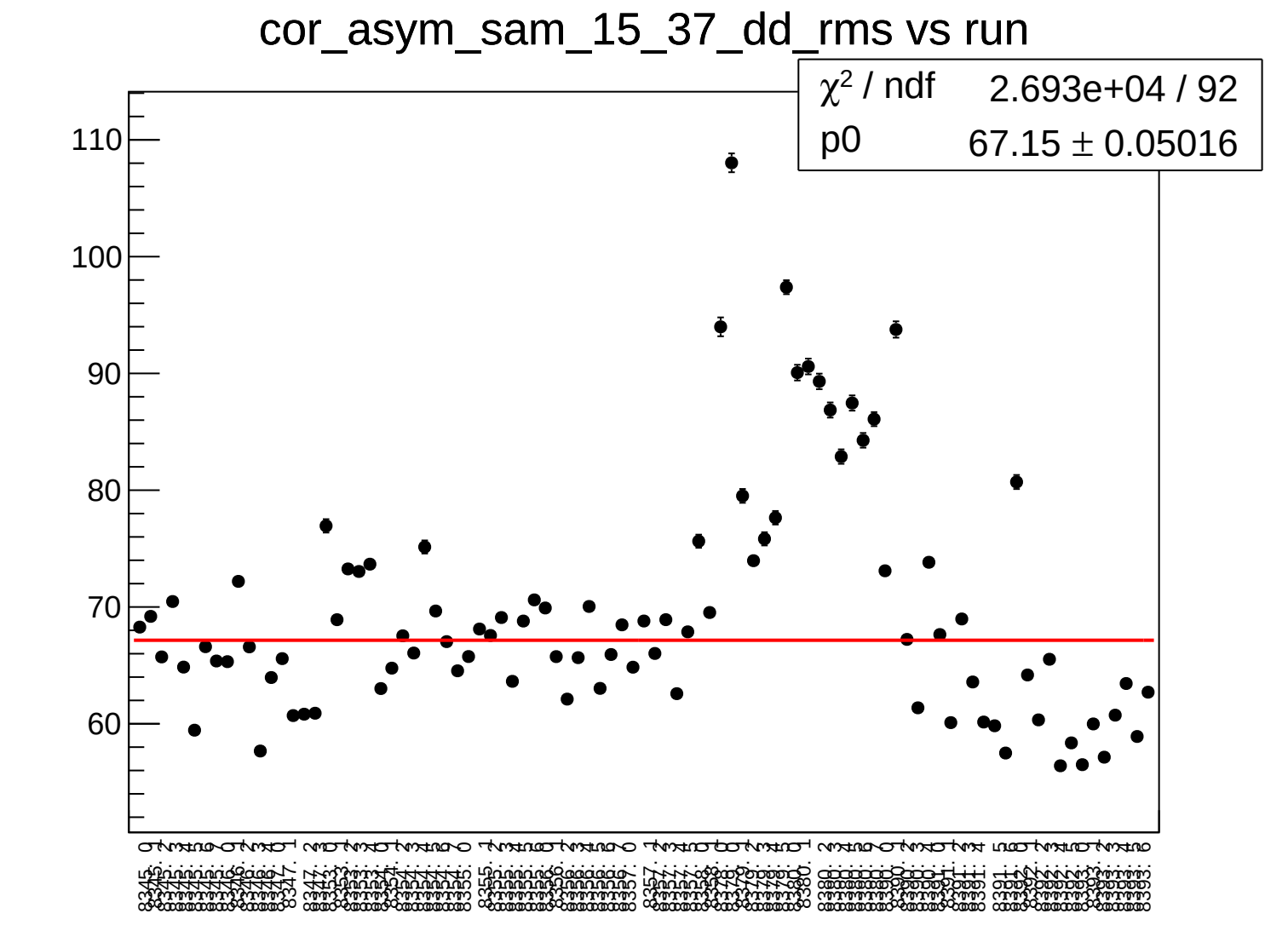

reg_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 2.693e+04 / 92
p0 67.15 ± 0.05016
110
100
90
80
70
60

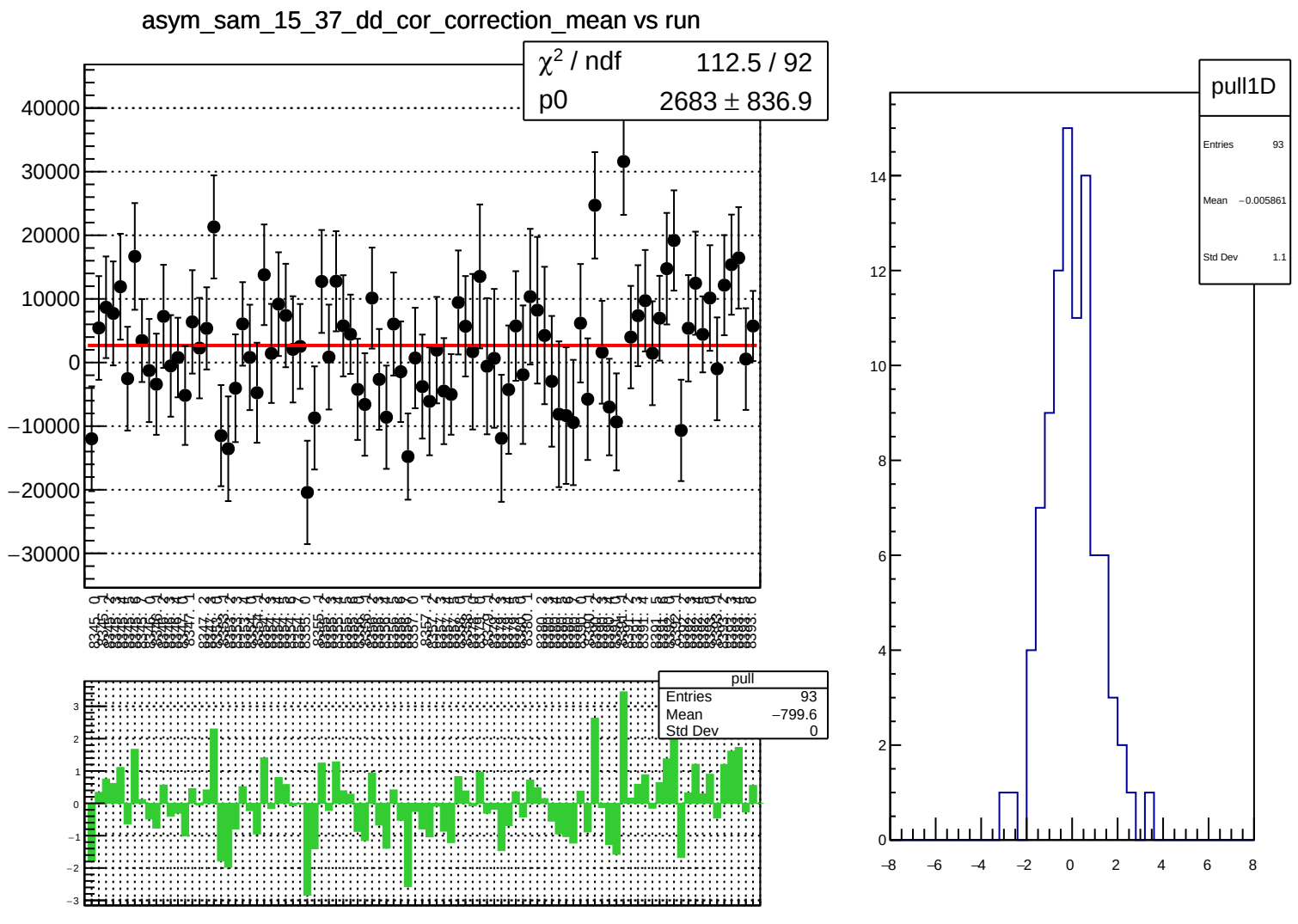

asym_sam_15_37_dd_reg_correction_mean vs run
χ² / ndf 112.5 / 92
p0 2683 ± 836.9
pull
Entries 93
Mean −799.5
Std Dev 0
pull1D
Entries 93
Mean −0.005862
Std Dev 1.1

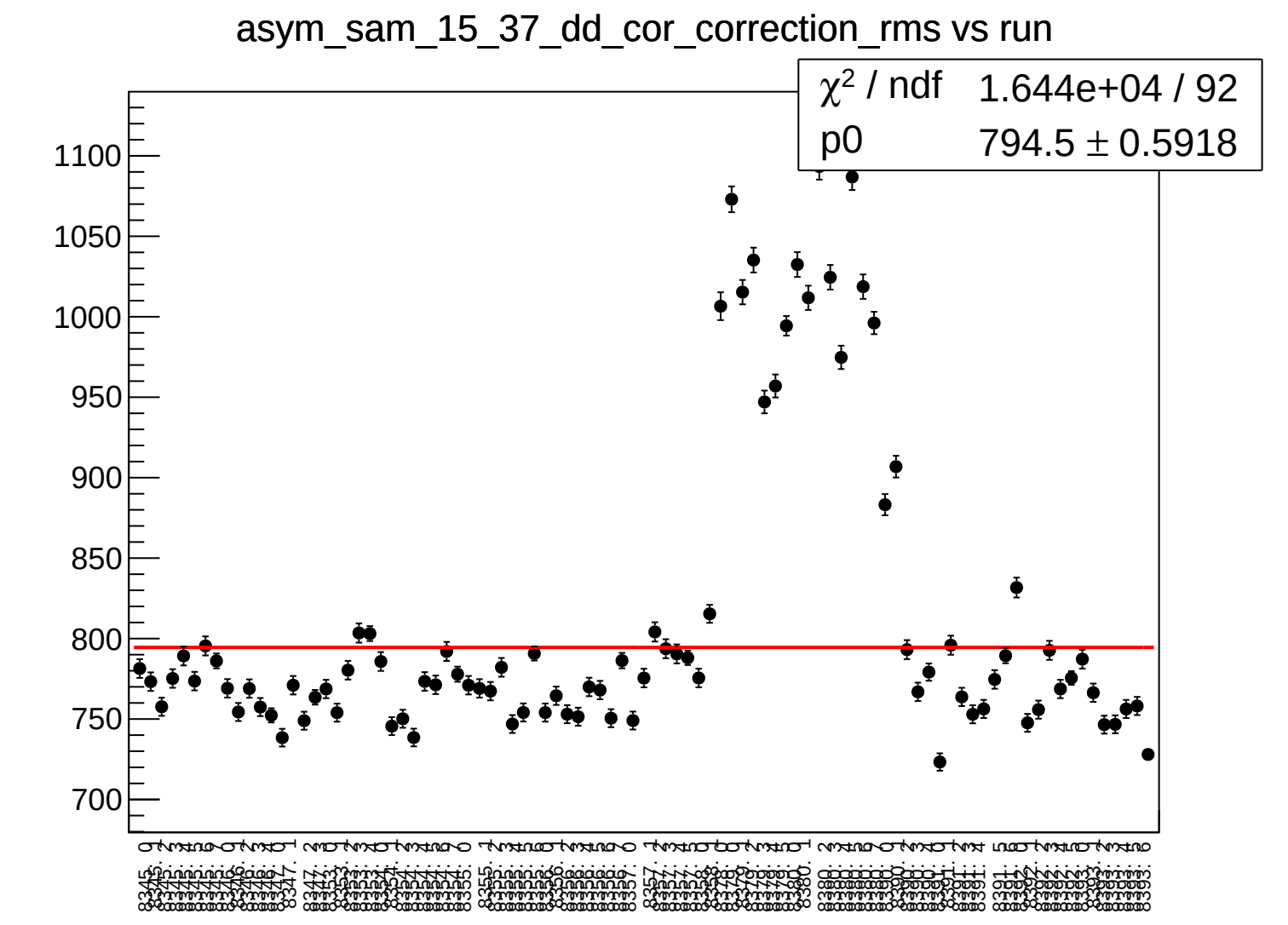

asym_sam_15_37_dd_reg_correction_rms vs run
χ² / ndf 1.644e+04 / 92
p0 794.5 ± 0.5918
1100
1050
1000
950
900
850
800
750
700

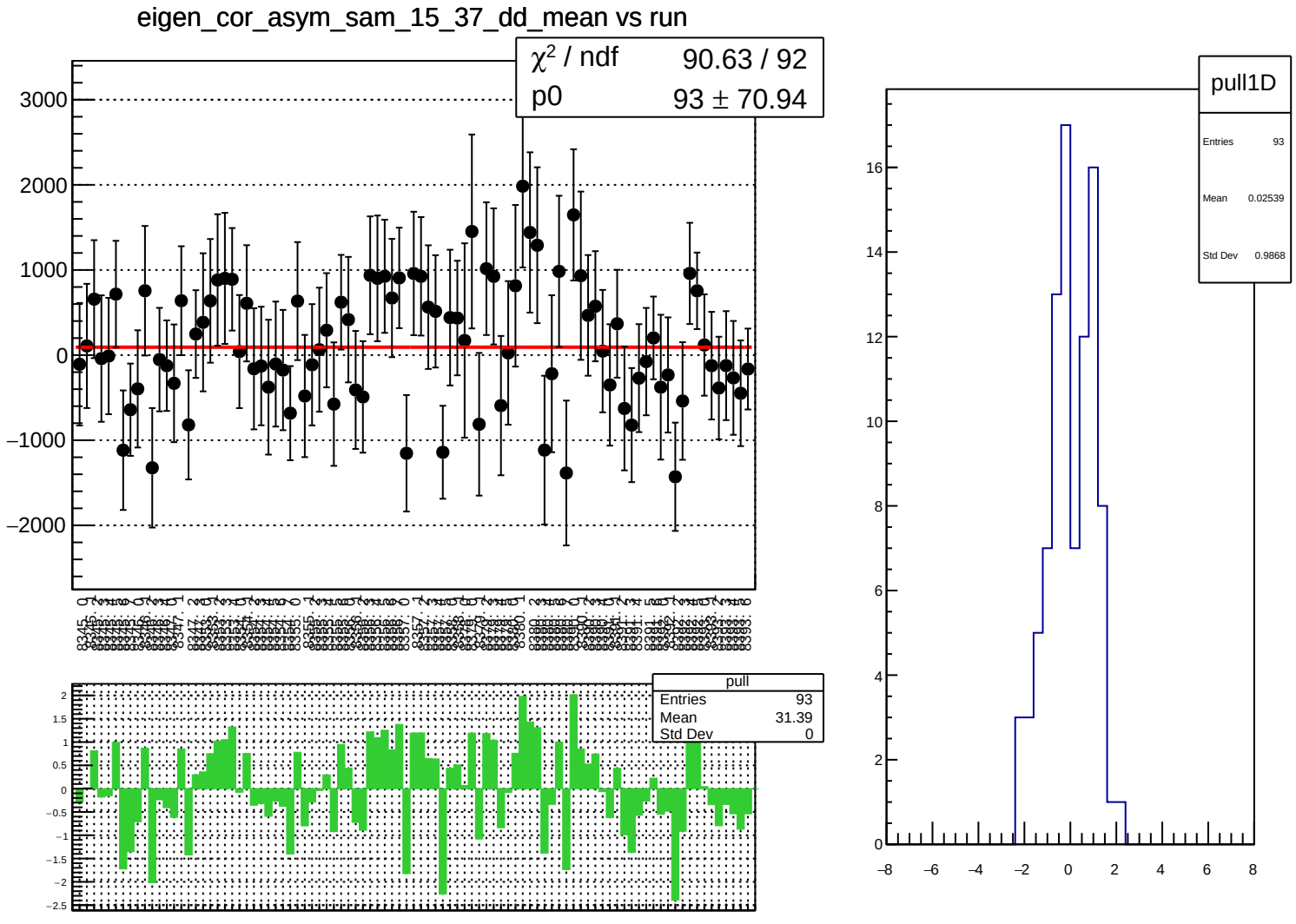

cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 90.63 / 92
p0 93 ± 70.94
3000
2000
1000
0
−1000
−2000
pull
Entries 93
Mean 31.39
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

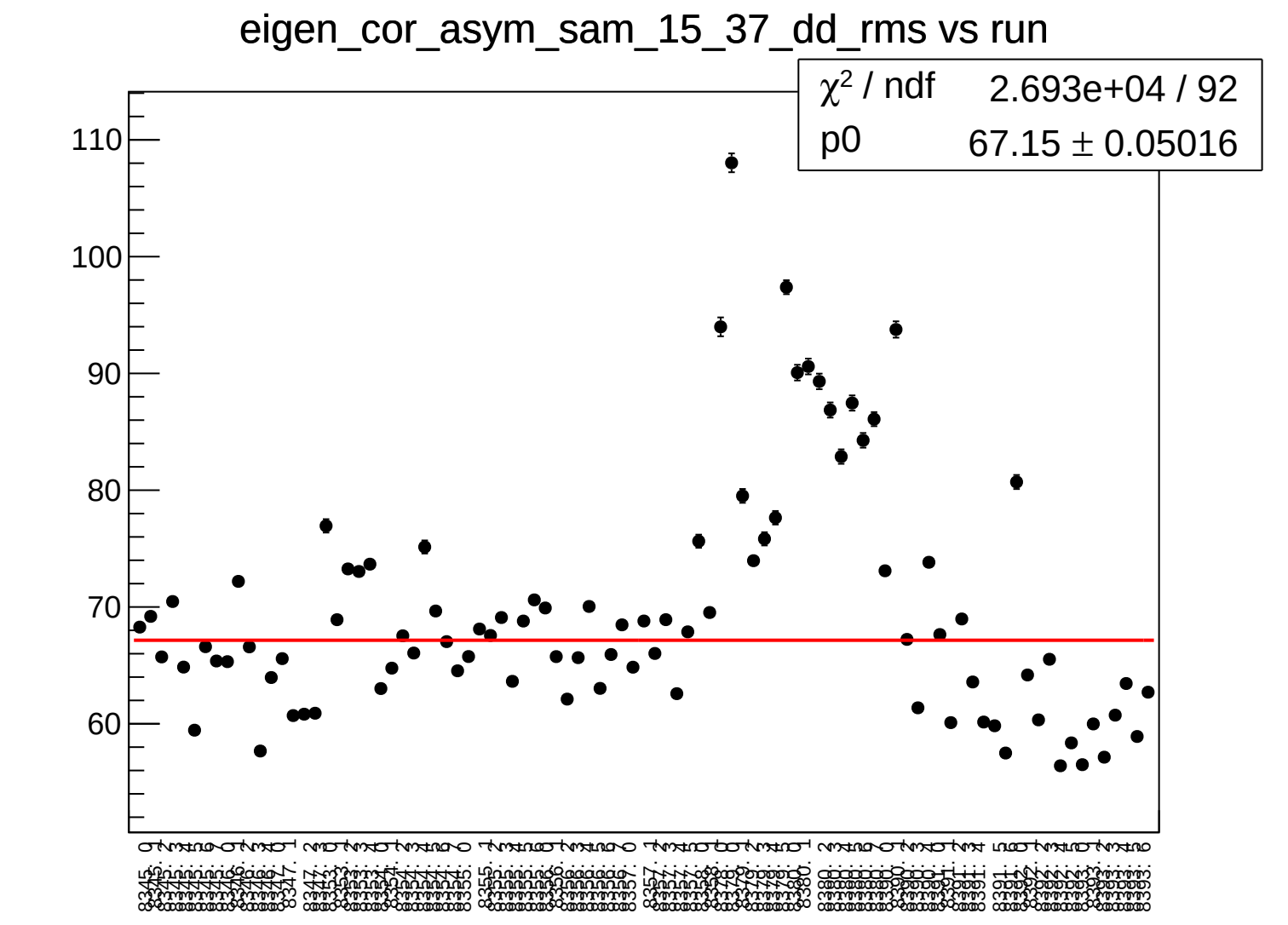

pull1D
Entries 93
Mean 0.02539
Std Dev 0.9868
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

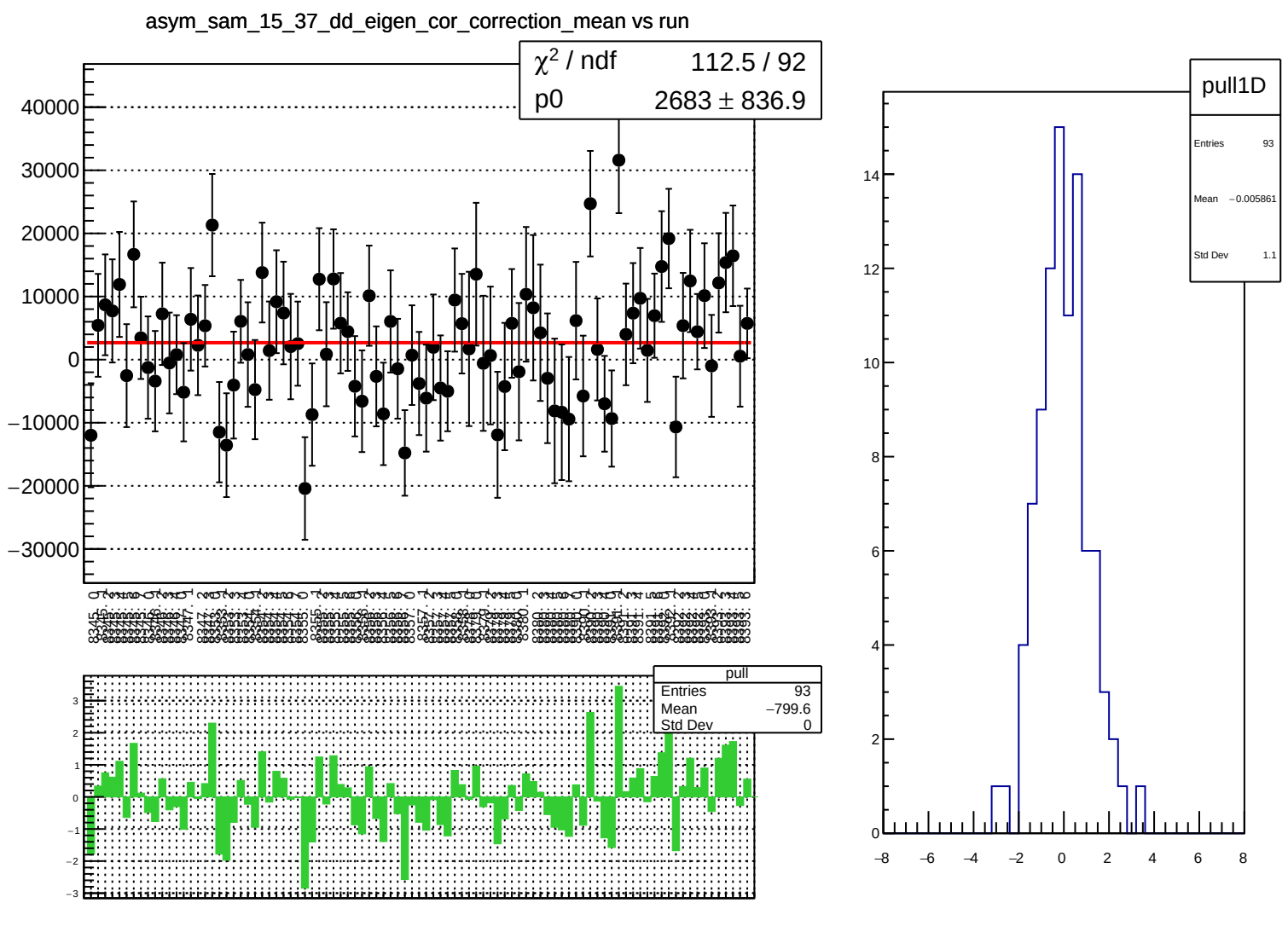

cor_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 2.693e+04 / 92
p0 67.15 ± 0.05016
110
100
90
80
70
60

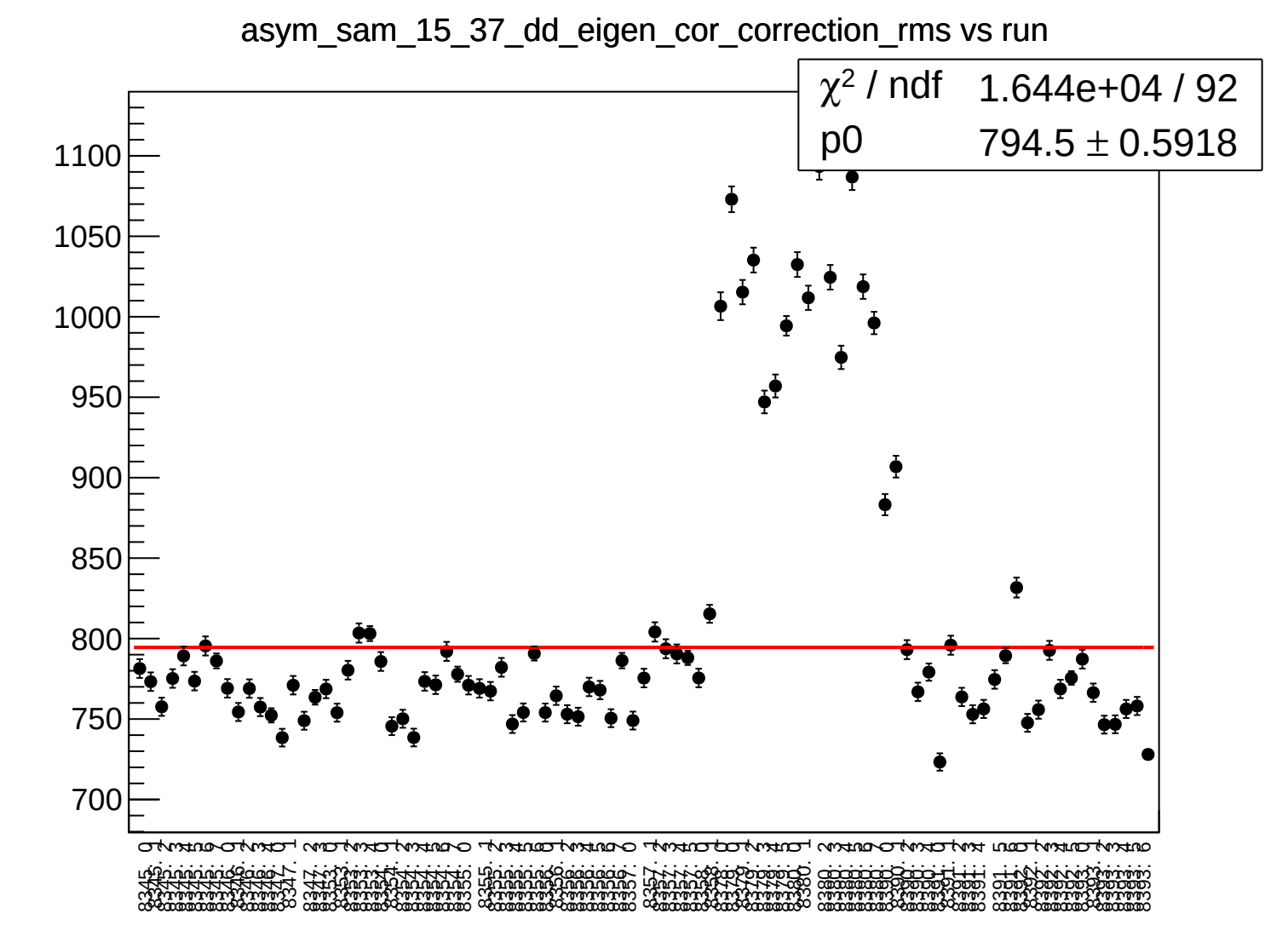

asym_sam_15_37_dd_cor_correction_mean vs run
χ² / ndf 112.5 / 92
p0 2683 ± 836.9
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −799.6
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.005861
Std Dev 1.1
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

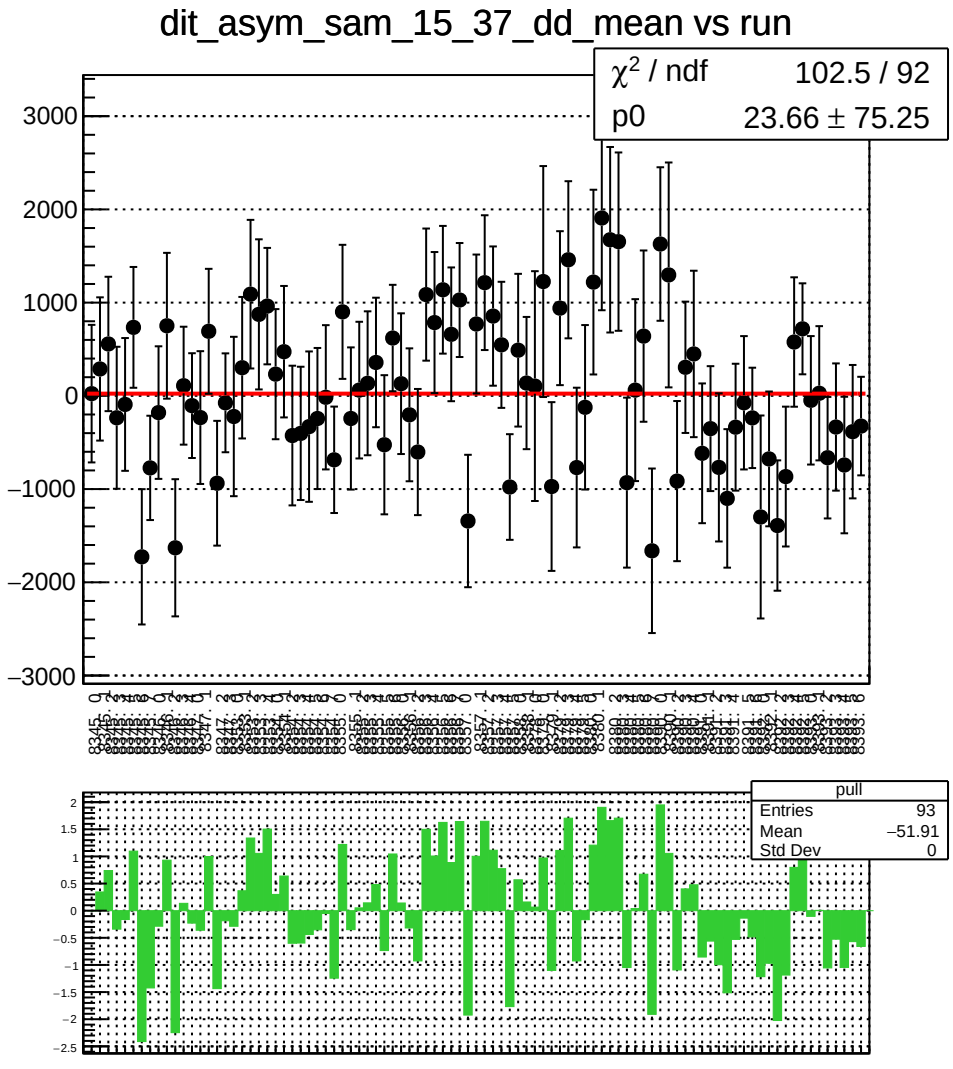

asym_sam_15_37_dd_cor_correction_rms vs run
χ² / ndf 1.644e+04 / 92
p0 794.5 ± 0.5918
1100
1050
1000
950
900
850
800
750
700

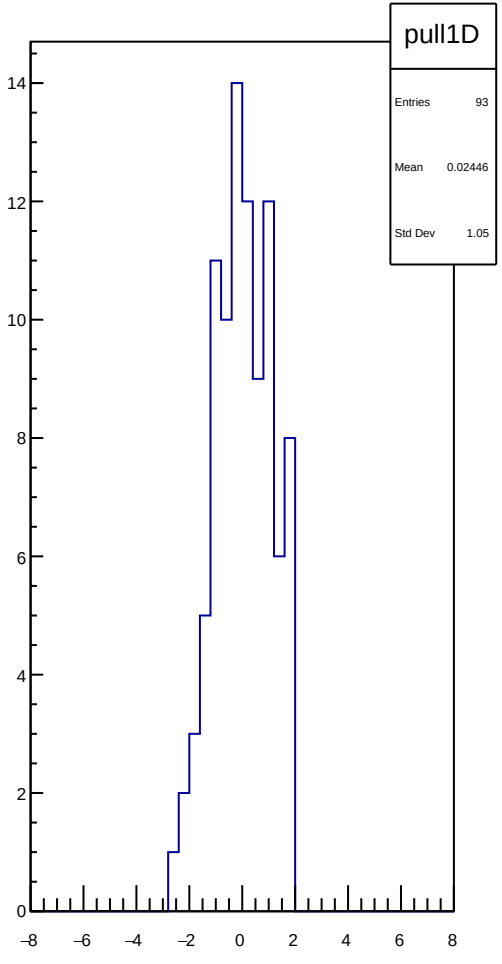

eigen_cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 90.63 / 92
p0 93 ± 70.94
3000
2000
1000
0
−1000
−2000
pull
Entries 93
Mean 31.39
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 93
Mean 0.02539
Std Dev 0.9868
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

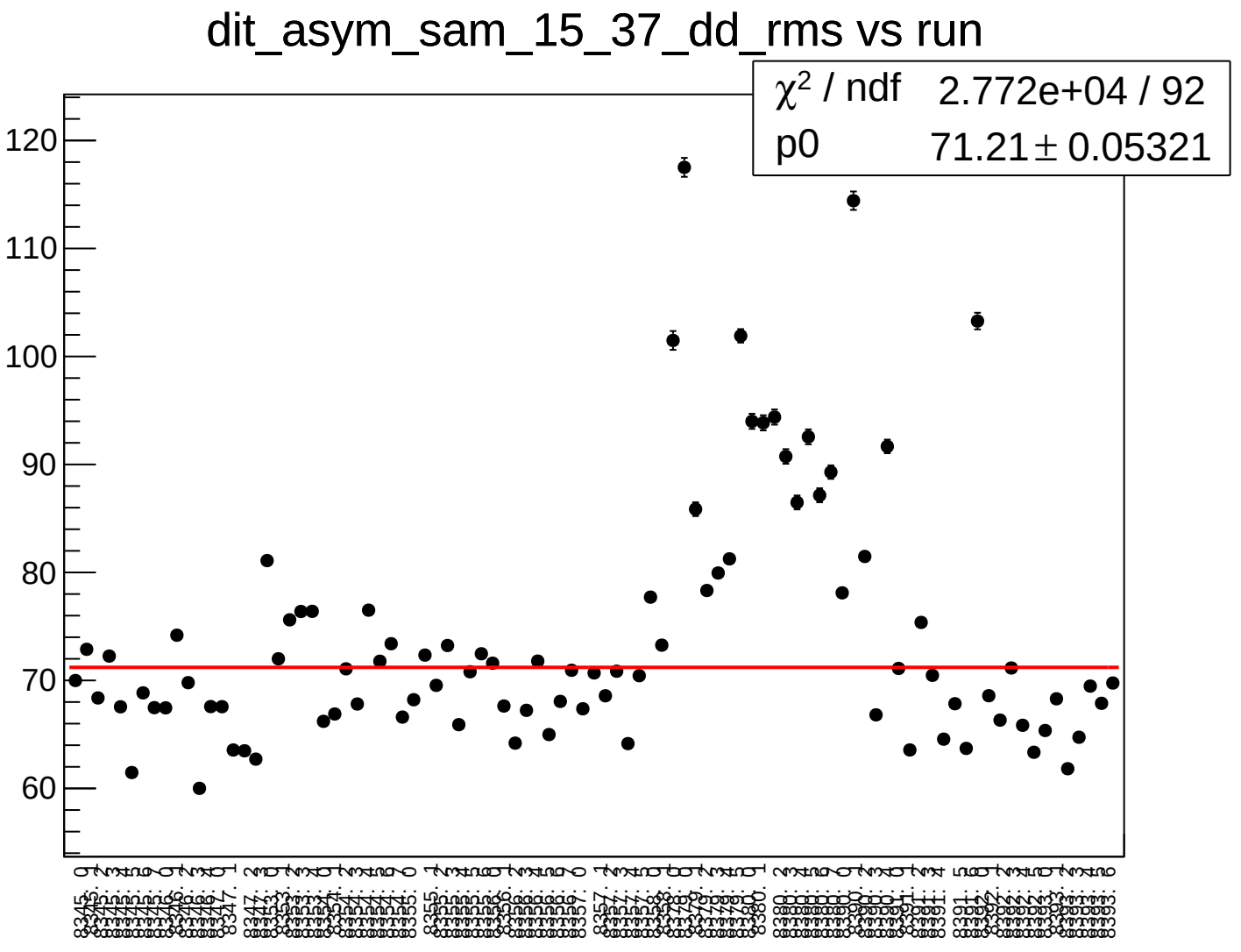

eigen_cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 2.693e+04 / 92
p0 67.15 ± 0.05016
110
100
90
80
70
60

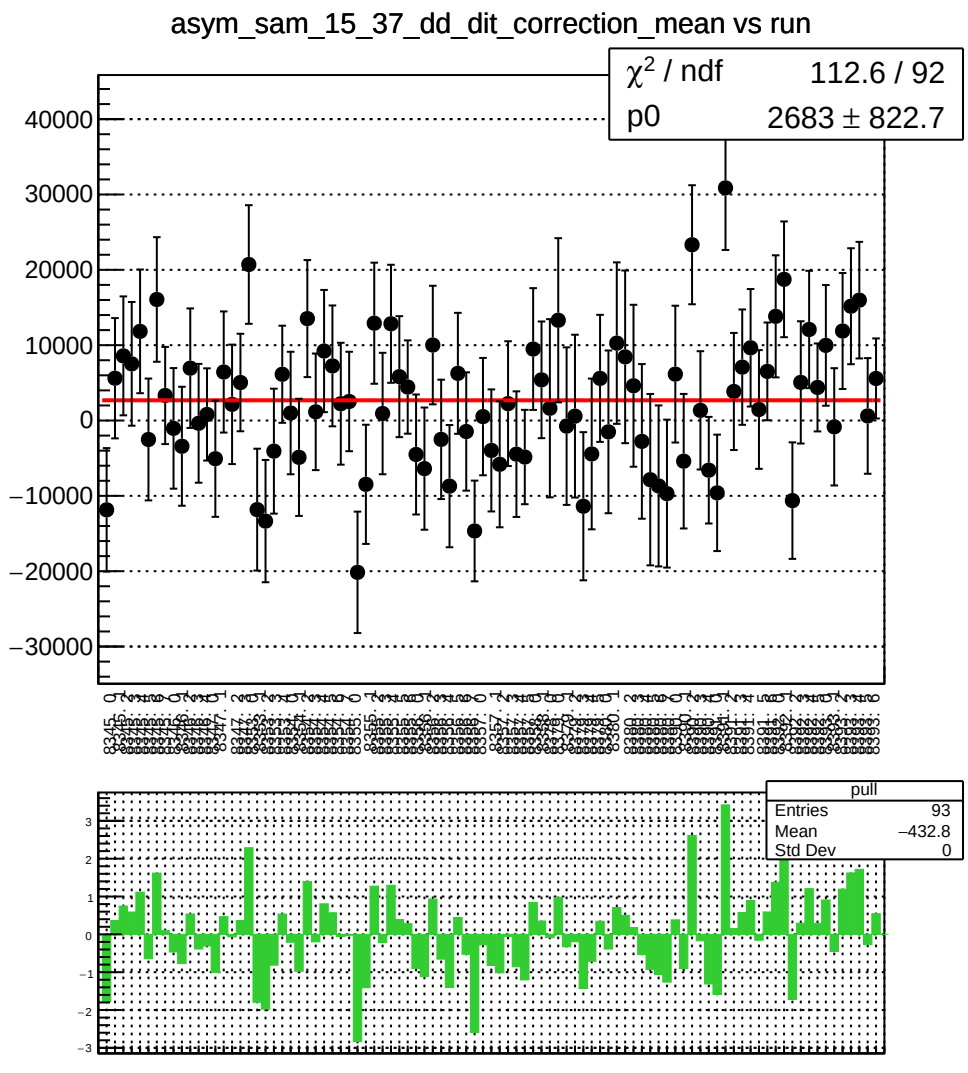

asym_sam_15_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 112.5 / 92
p0 2683 ± 836.9
pull
Entries 93
Mean −799.6
Std Dev 0
pull1D
Entries 93
Mean −0.005861
Std Dev 1.1

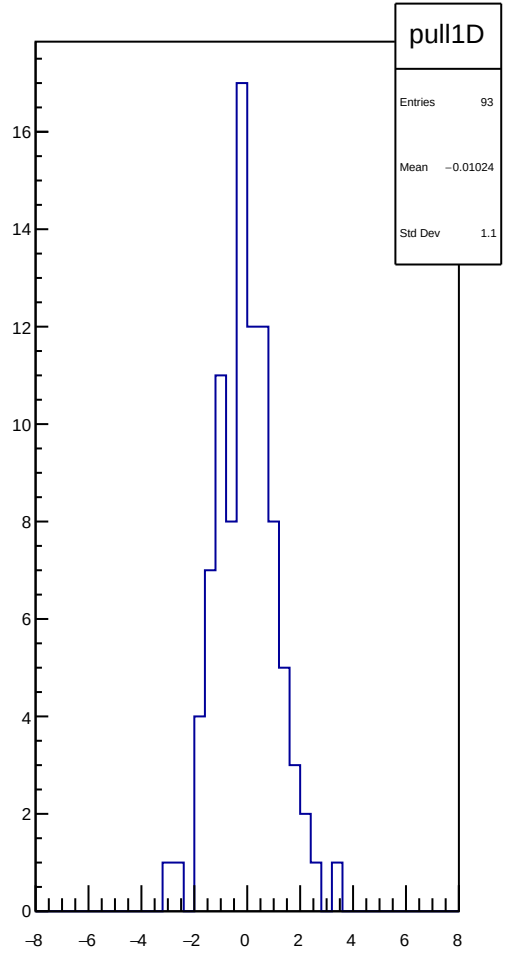

asym_sam_15_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.644e+04 / 92
p0 794.5 ± 0.5918
1100
1050
1000
950
900
850
800
750
700

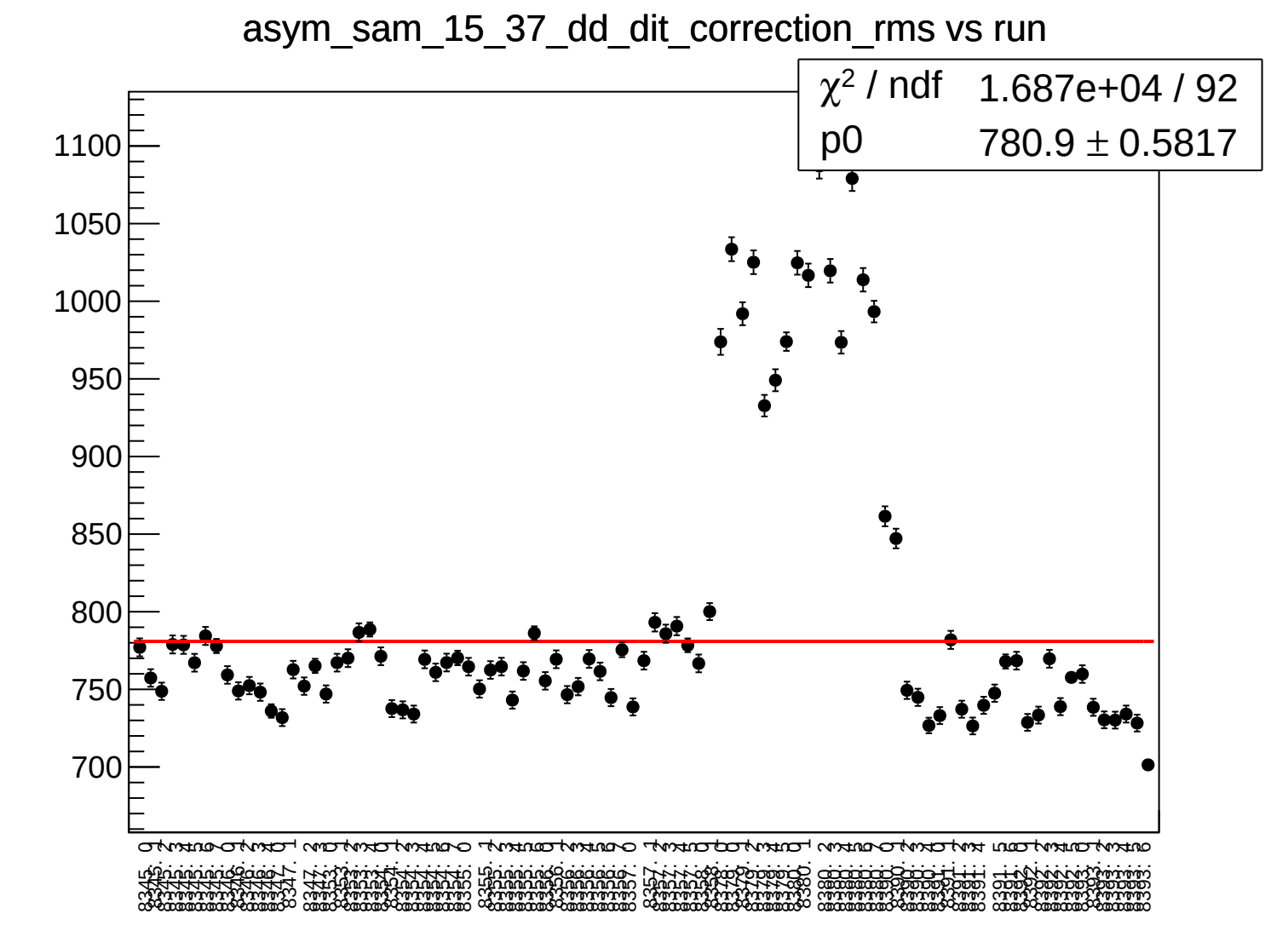

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 102.5 / 92
p0 23.66 ± 75.25
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean −51.91
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

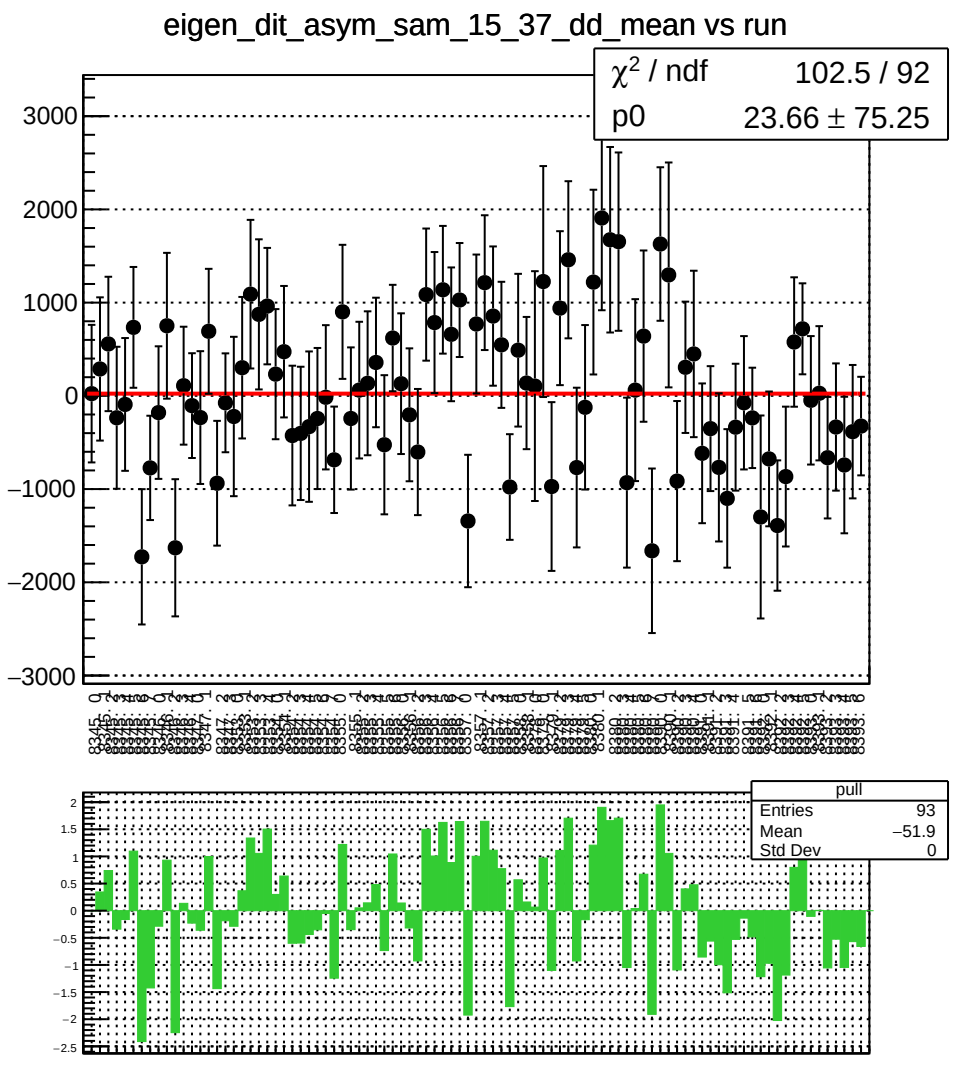

pull1D
Entries 93
Mean 0.02446
Std Dev 1.05
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

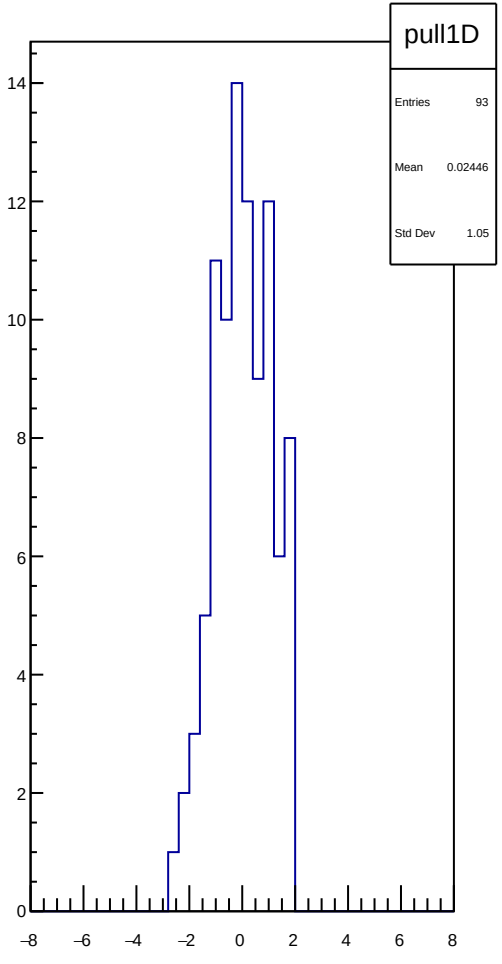

dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 2.772e+04 / 92
p0 71.21 ± 0.05321
120
110
100
90
80
70
60

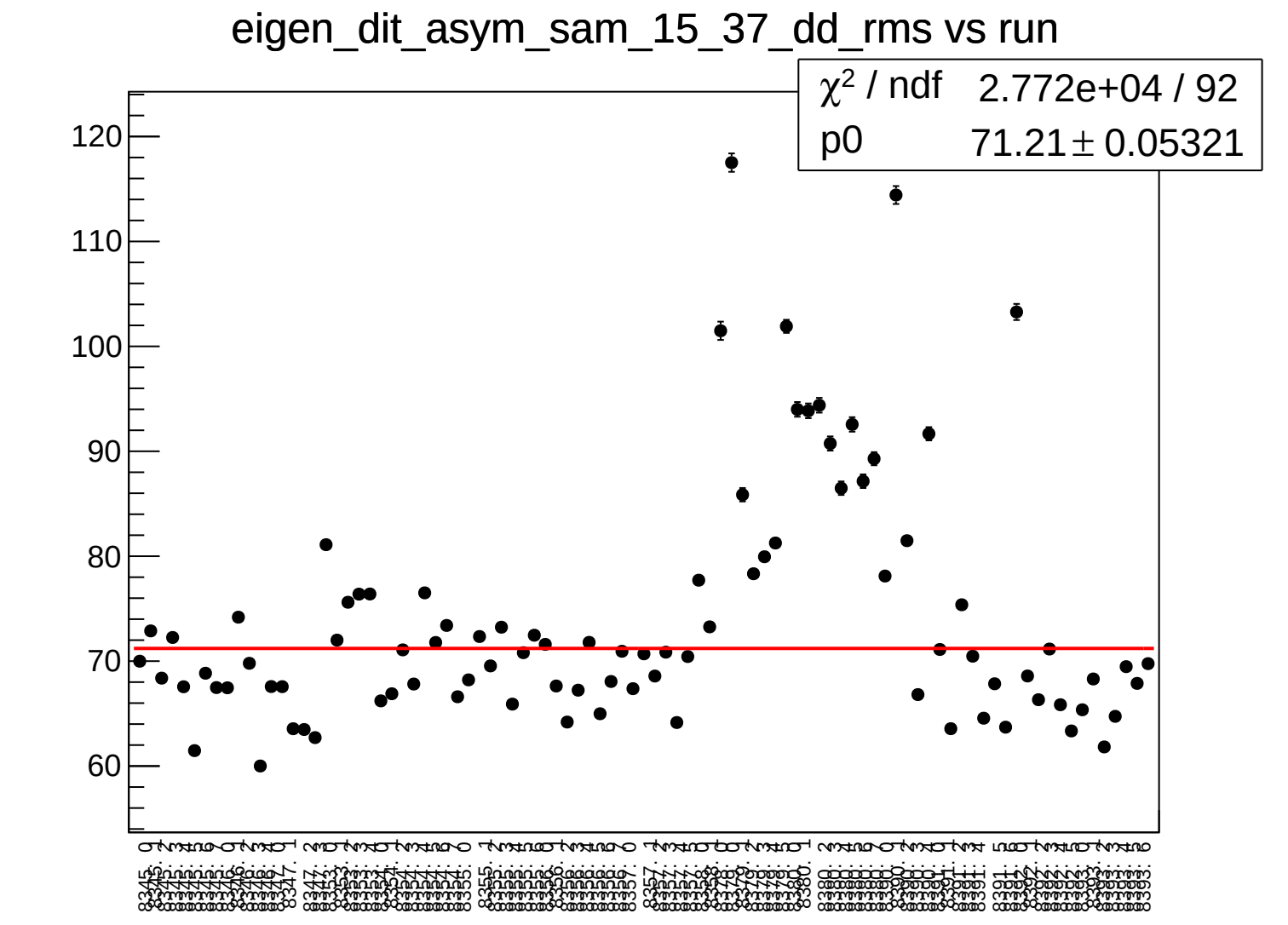

asym_sam_15_37_dd_dit_correction_mean vs run
χ² / ndf 112.6 / 92
p0 2683 ± 822.7
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −432.8
Std Dev 0
3
2
1
0
−1
−2
−3

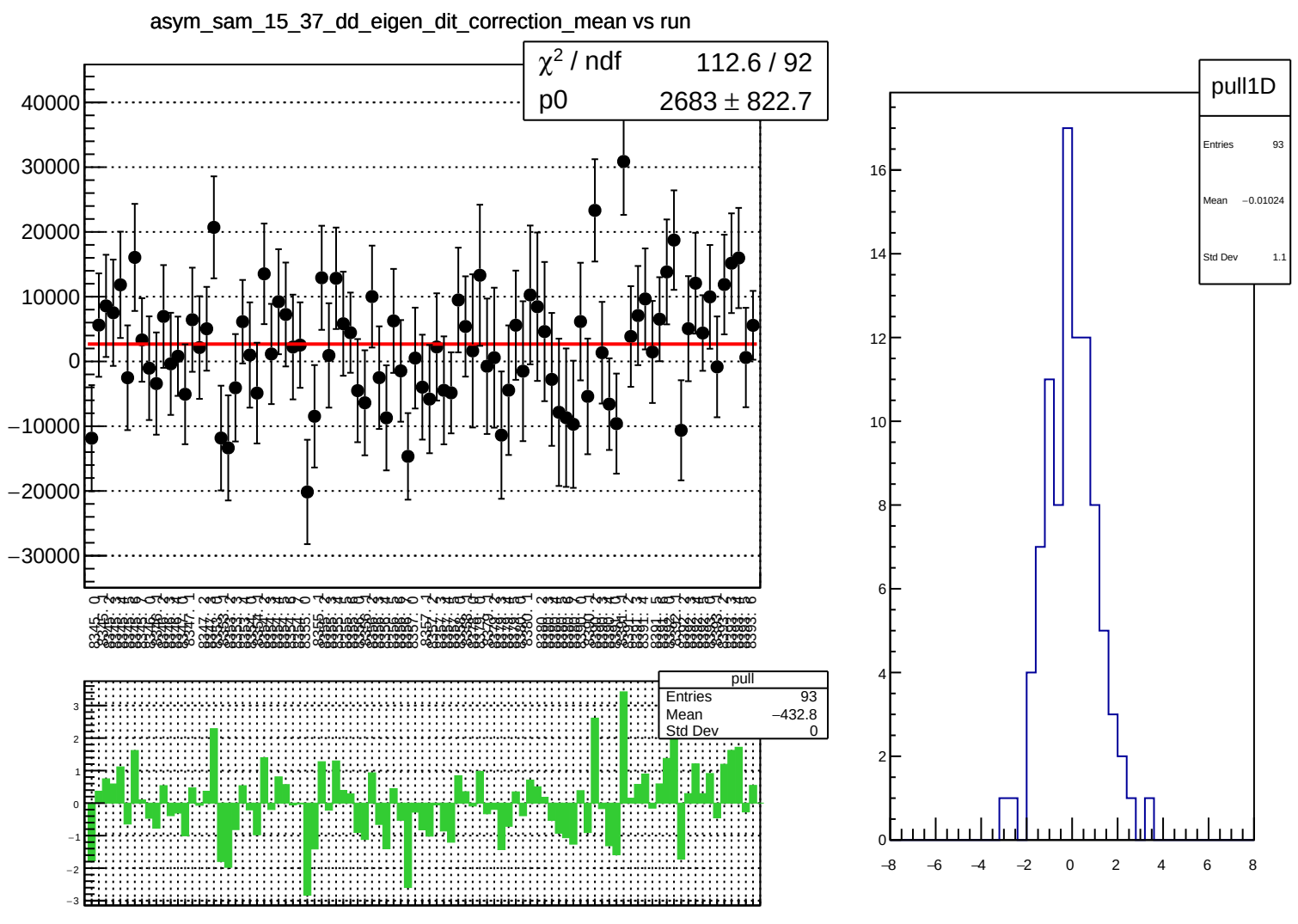

pull1D
Entries 93
Mean −0.01024
Std Dev 1.1
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

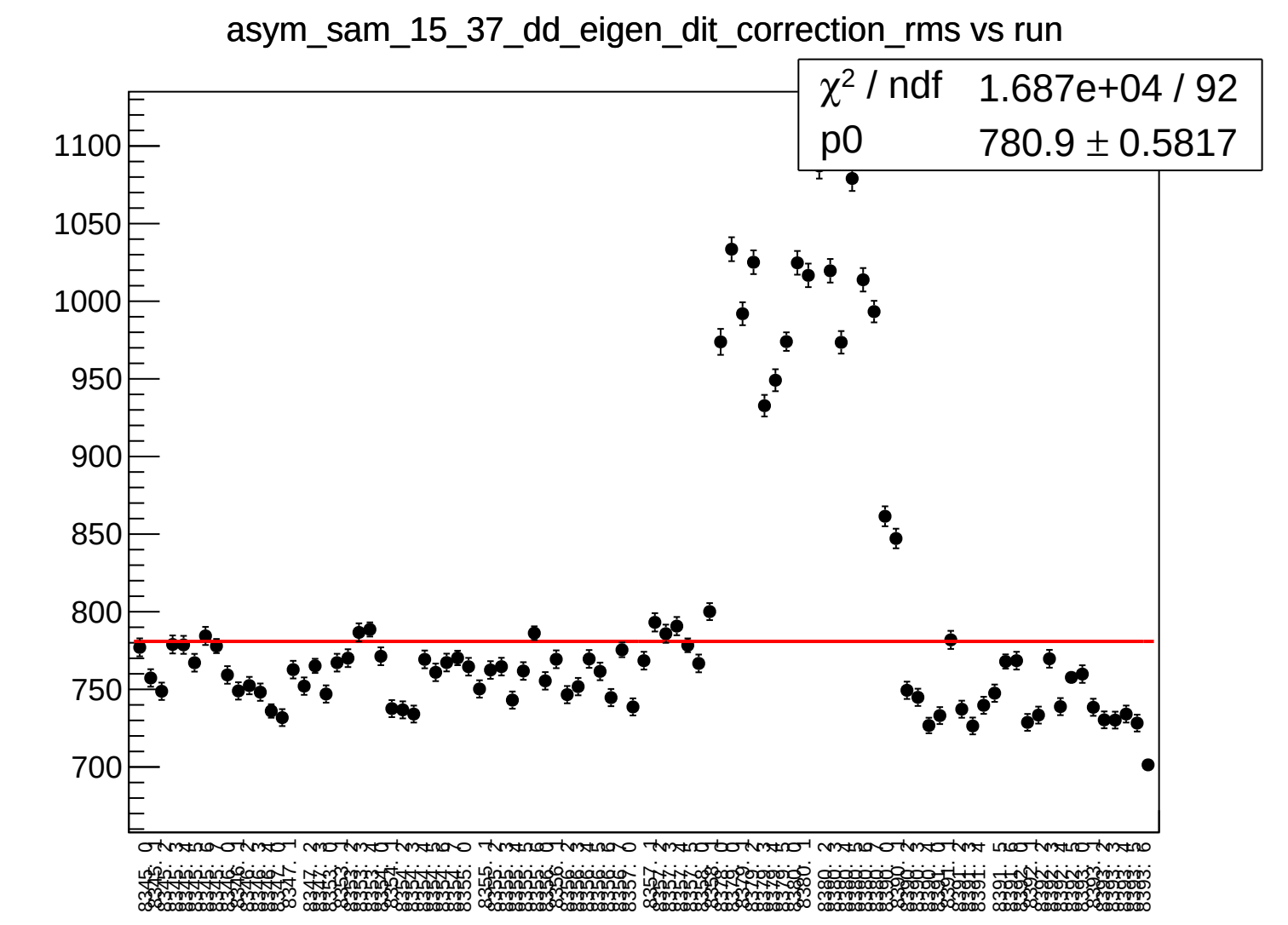

asym_sam_15_37_dd_dit_correction_rms vs run
χ² / ndf 1.687e+04 / 92
p0 780.9 ± 0.5817
1100
1050
1000
950
900
850
800
750
700

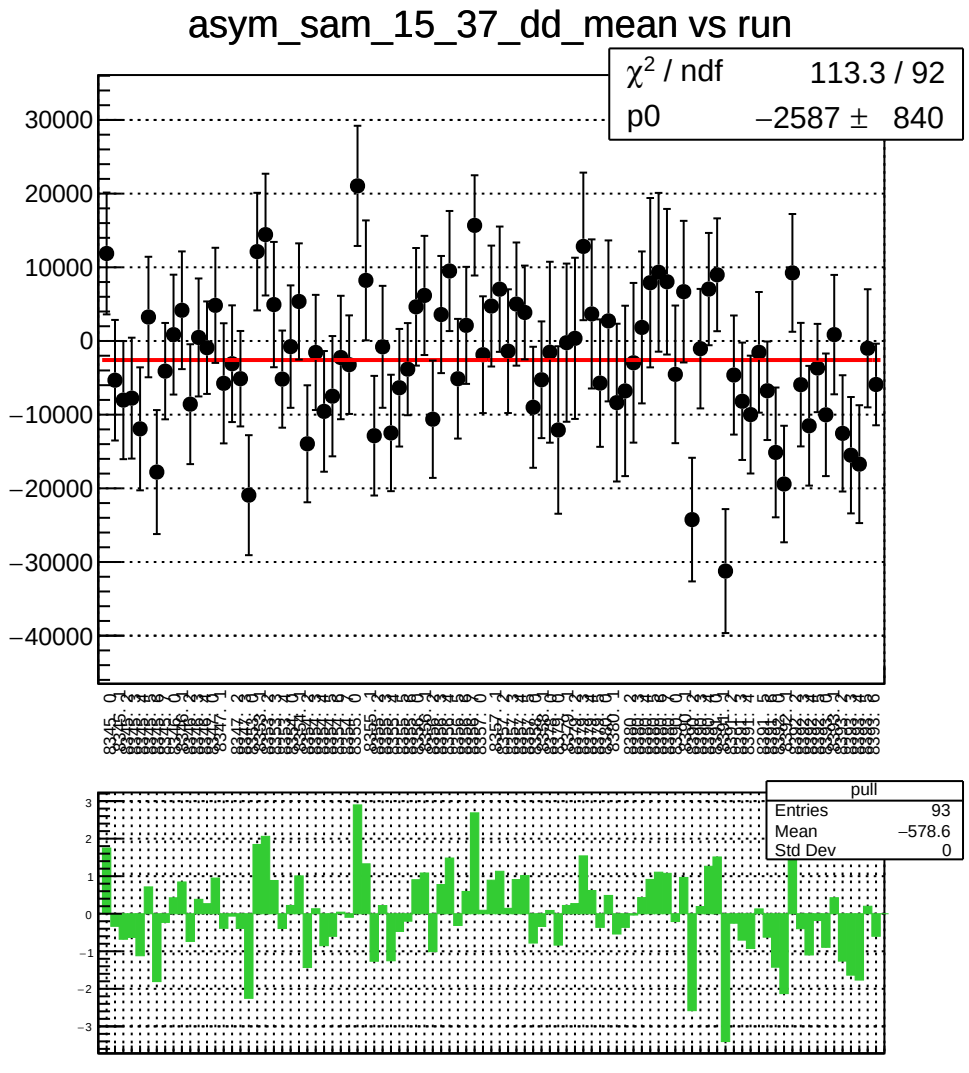

eigen_dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 102.5 / 92
p0 23.66 ± 75.25
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean −51.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

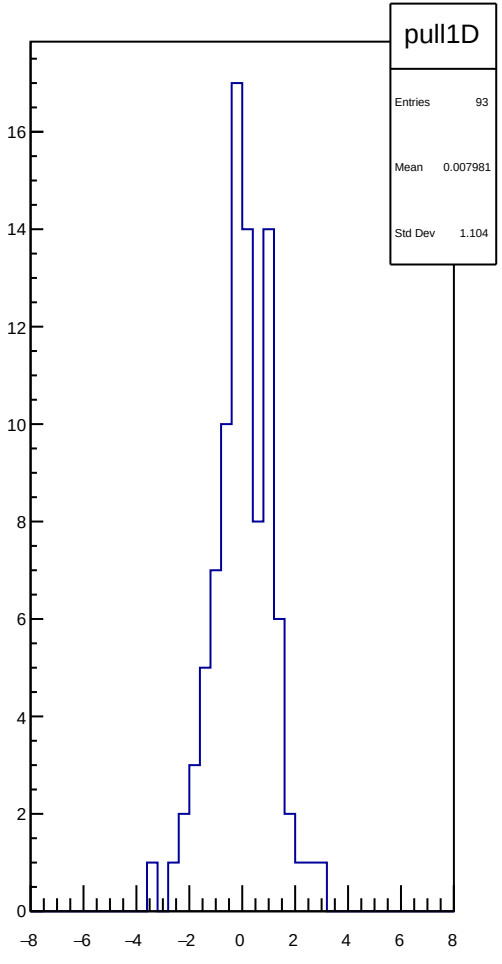

pull1D
Entries 93
Mean 0.02446
Std Dev 1.05
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

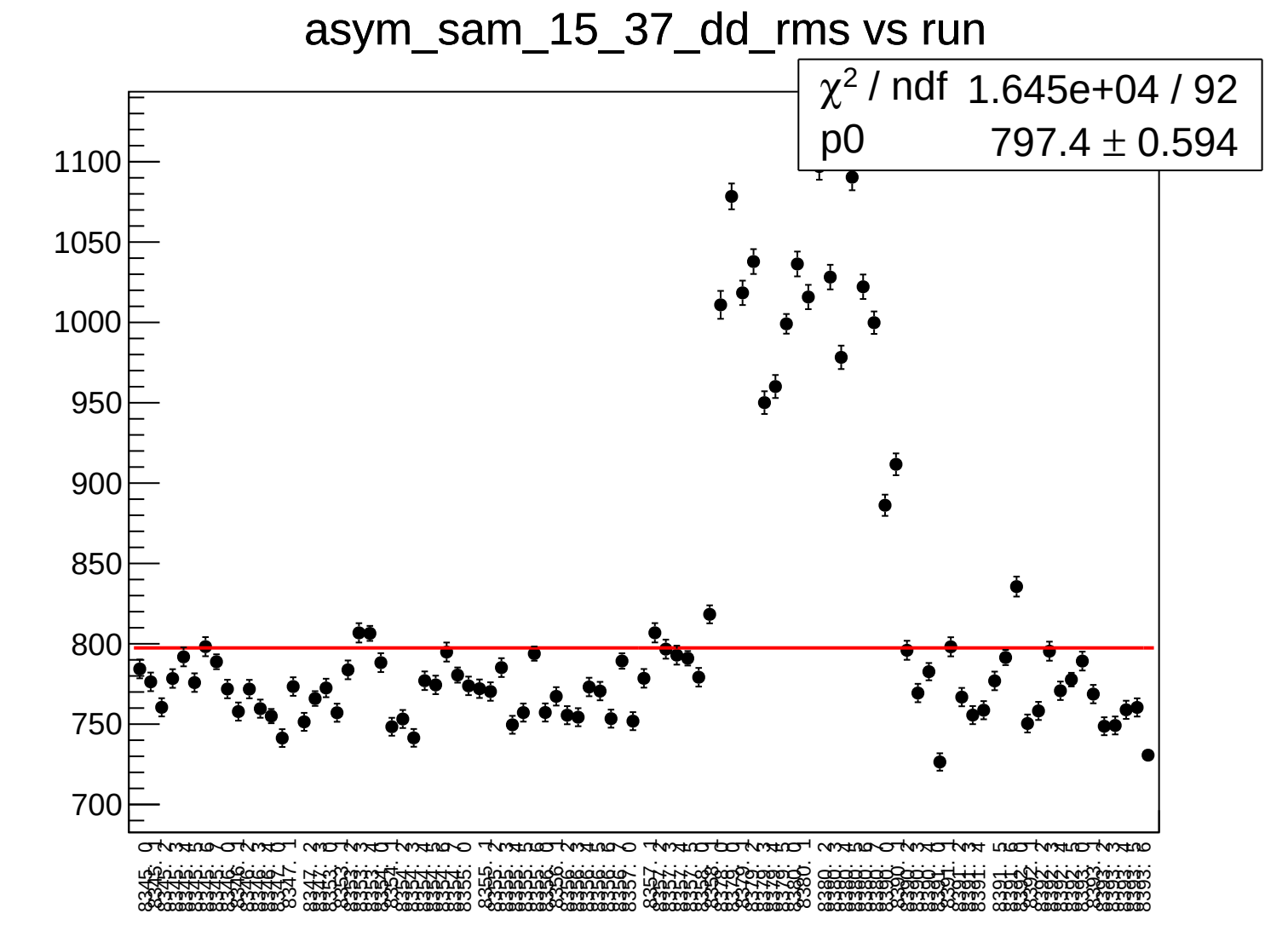

eigen_dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 2.772e+04 / 92
p0 71.21 ± 0.05321
120
110
100
90
80
70
60

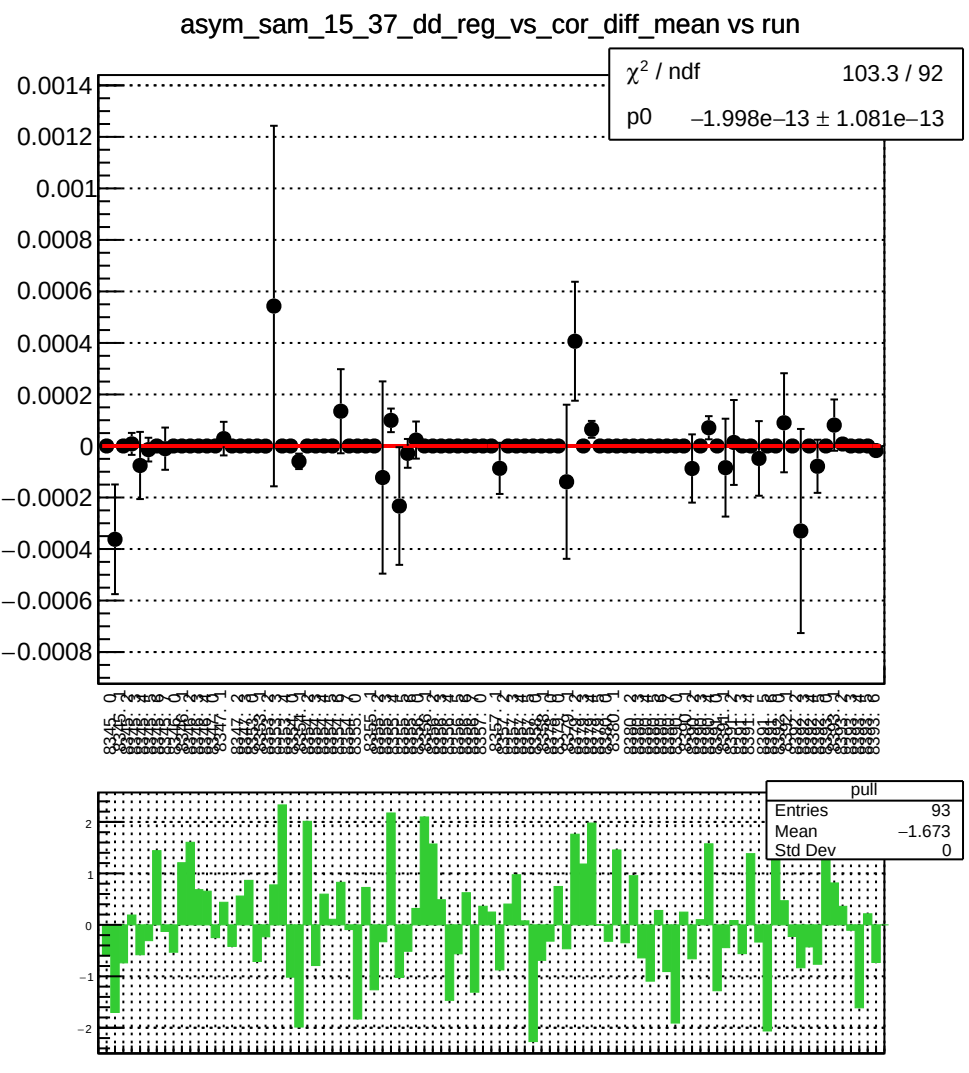

asym_sam_15_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 112.6 / 92
p0 2683 ± 822.7
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −432.8
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.01024
Std Dev 1.1
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

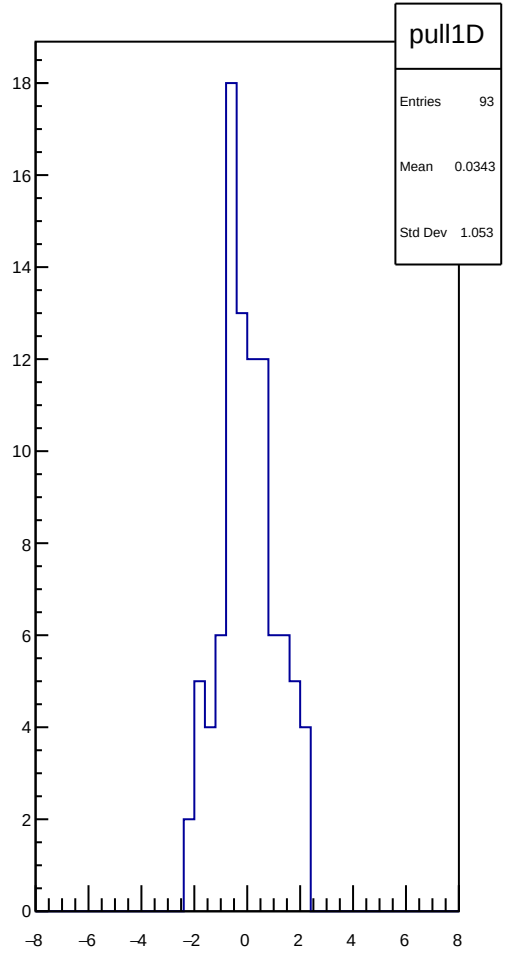

asym_sam_15_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.687e+04 / 92
p0 780.9 ± 0.5817
1100
1050
1000
950
900
850
800
750
700

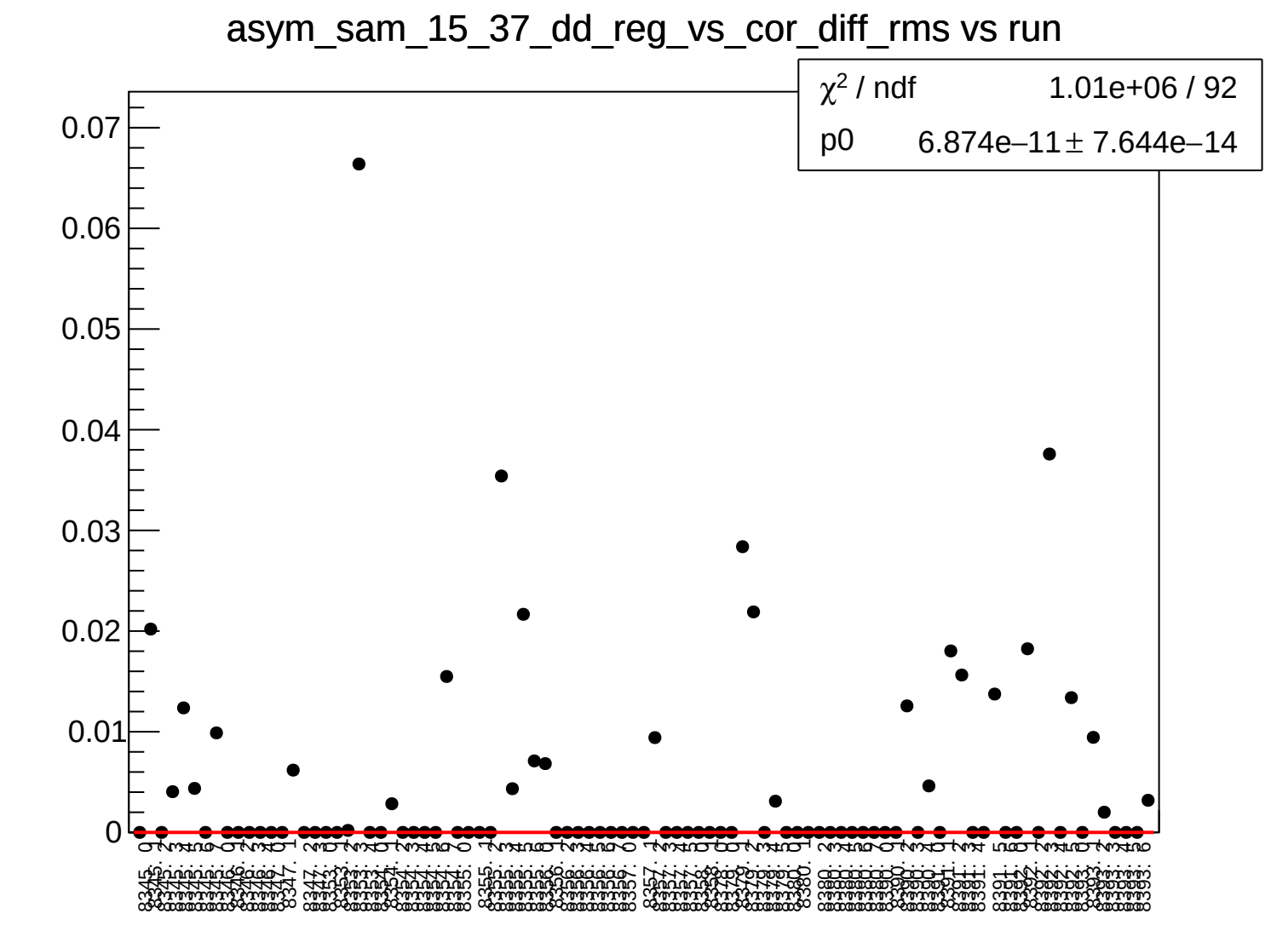

asym_sam_15_37_dd_mean vs run
χ² / ndf 113.3 / 92
p0 −2587 ± 840
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean −578.6
Std Dev 0
3
2
1
0
−1
−2
−3

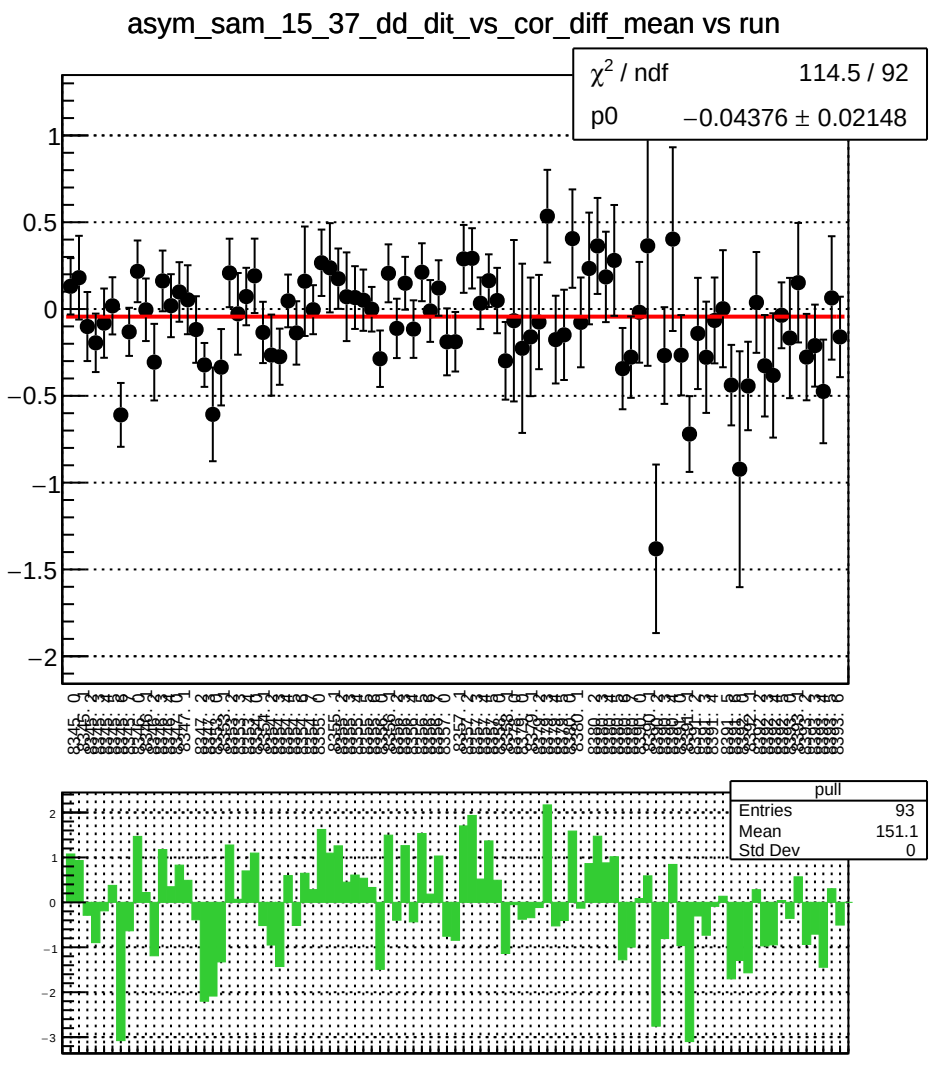

pull1D
Entries 93
Mean 0.007981
Std Dev 1.104
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

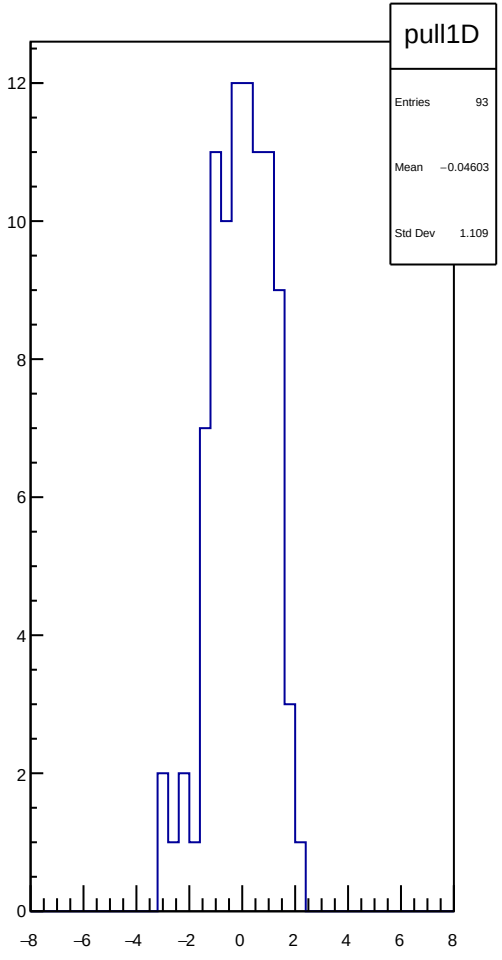

asym_sam_15_37_dd_rms vs run
χ² / ndf 1.645e+04 / 92
p0 797.4 ± 0.594
1100
1050
1000
950
900
850
800
750
700

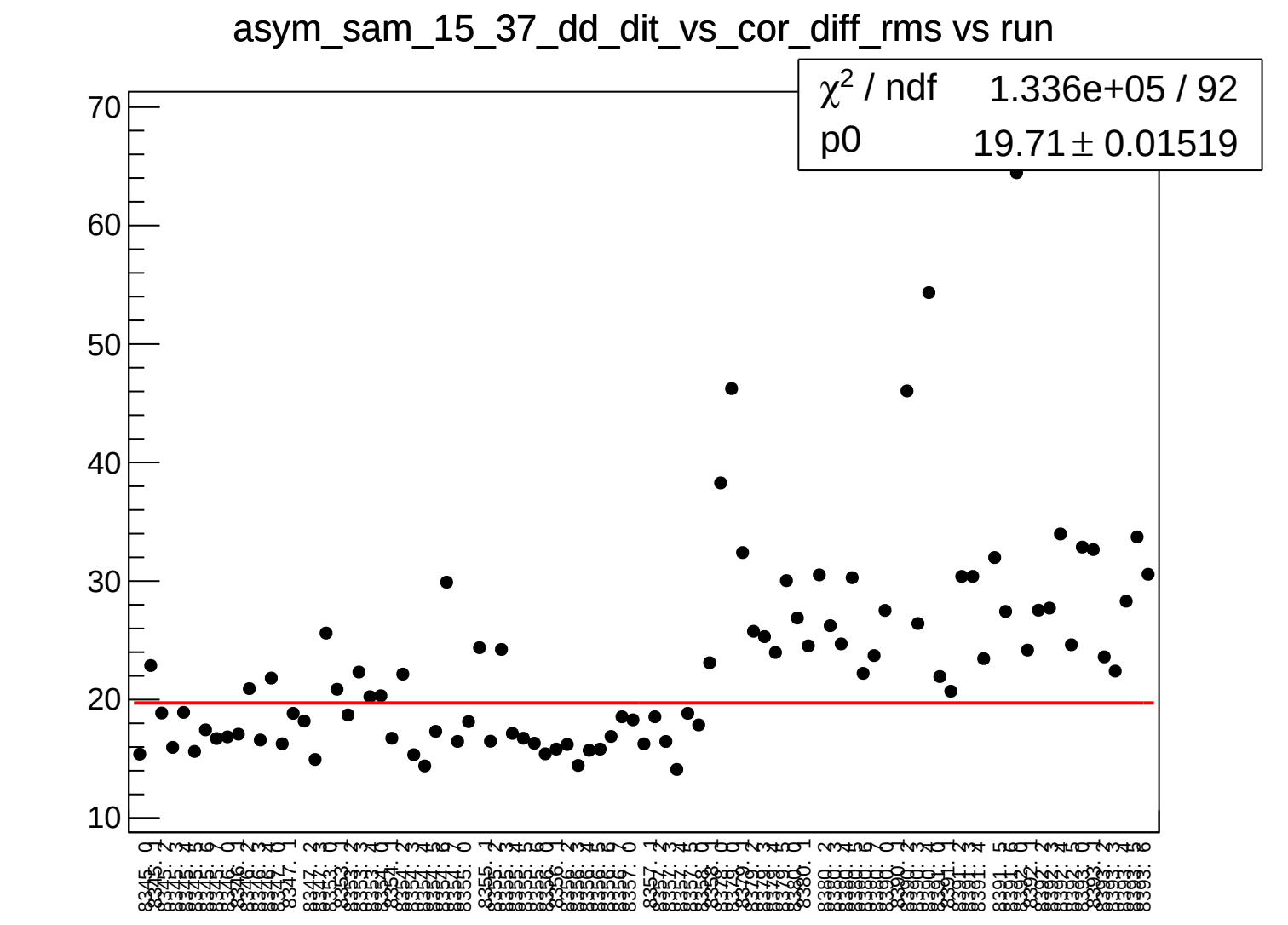

asym_sam_15_37_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 103.3 / 92
p0 −1.998e−13 ± 1.081e−13
pull
Entries 93
Mean −1.673
Std Dev 0

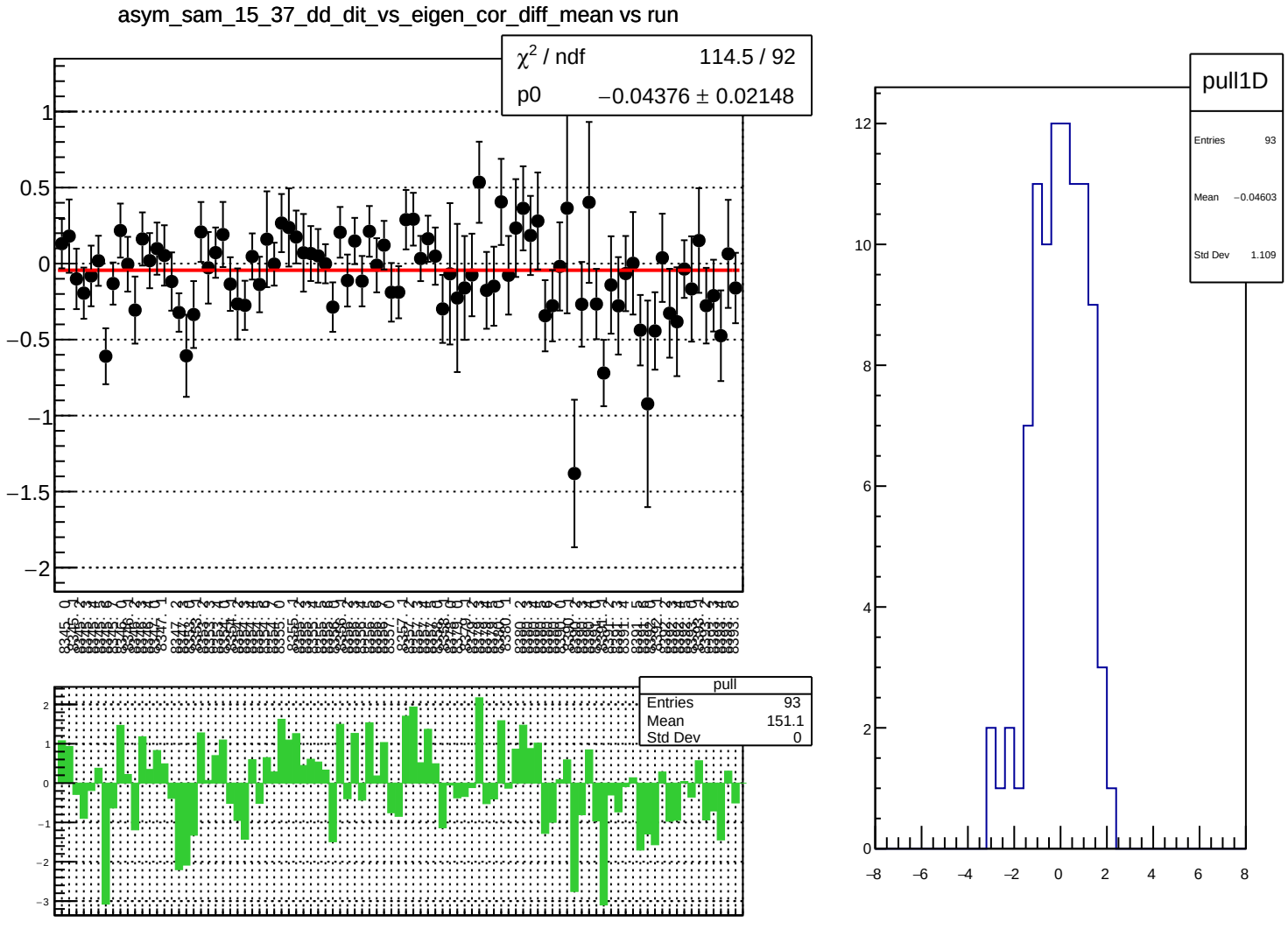

pull1D
Entries 93
Mean 0.0343
Std Dev 1.053

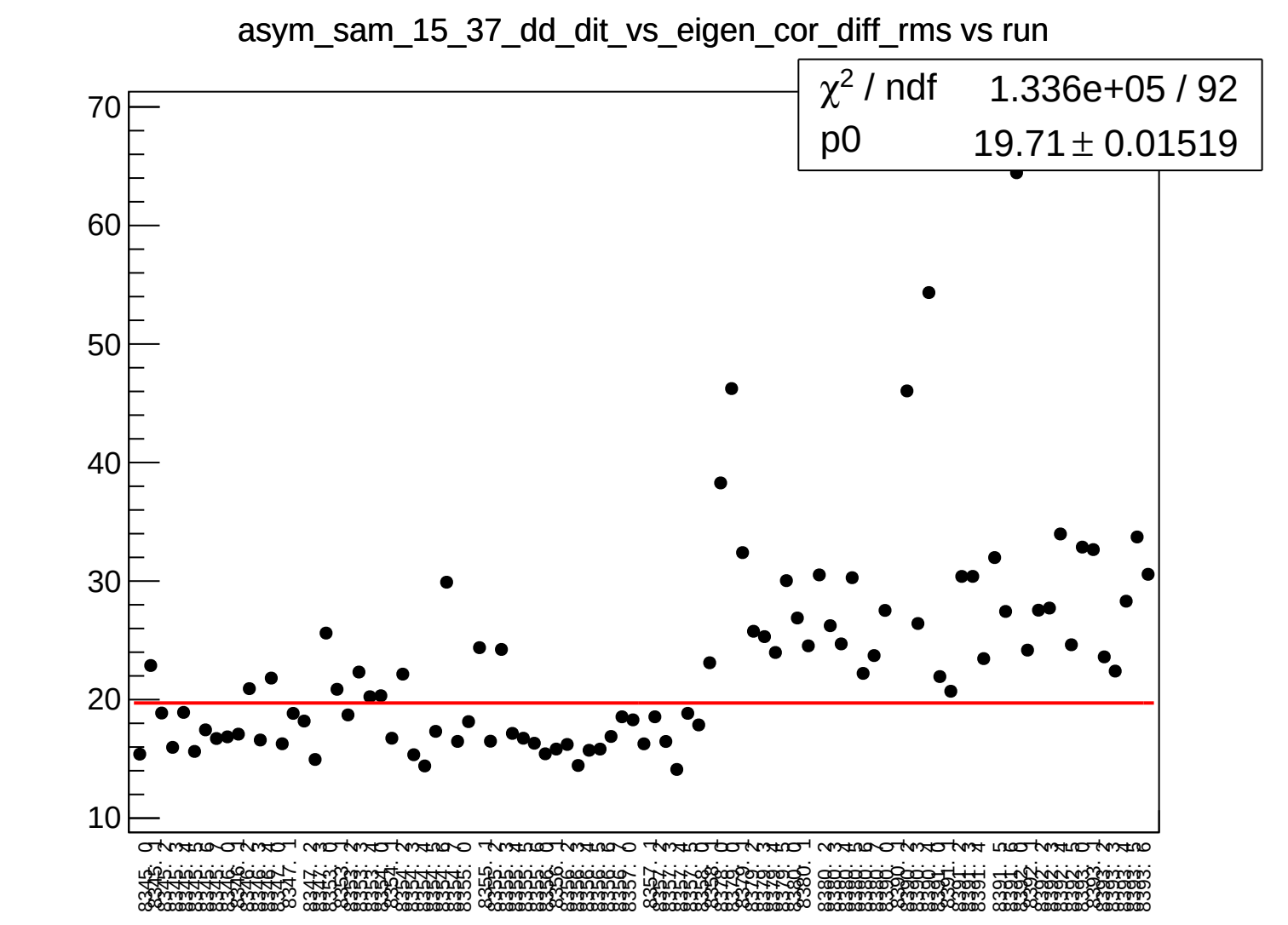

asym_sam_15_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.01e+06 / 92
p0 6.874e−11 ± 7.644e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

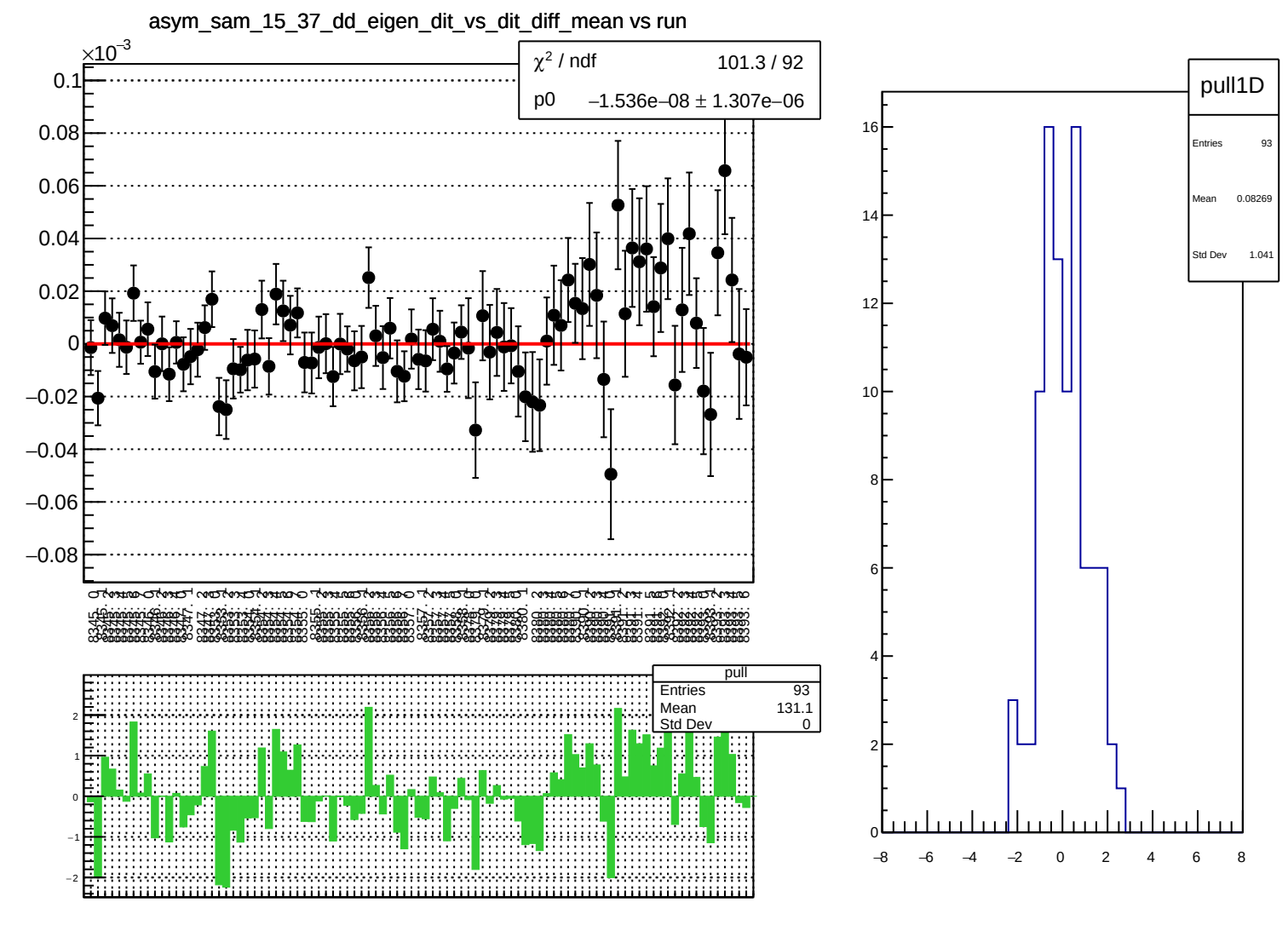

asym_sam_15_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 114.5 / 92
p0 −0.04376 ± 0.02148
pull
Entries 93
Mean 151.1
Std Dev 0

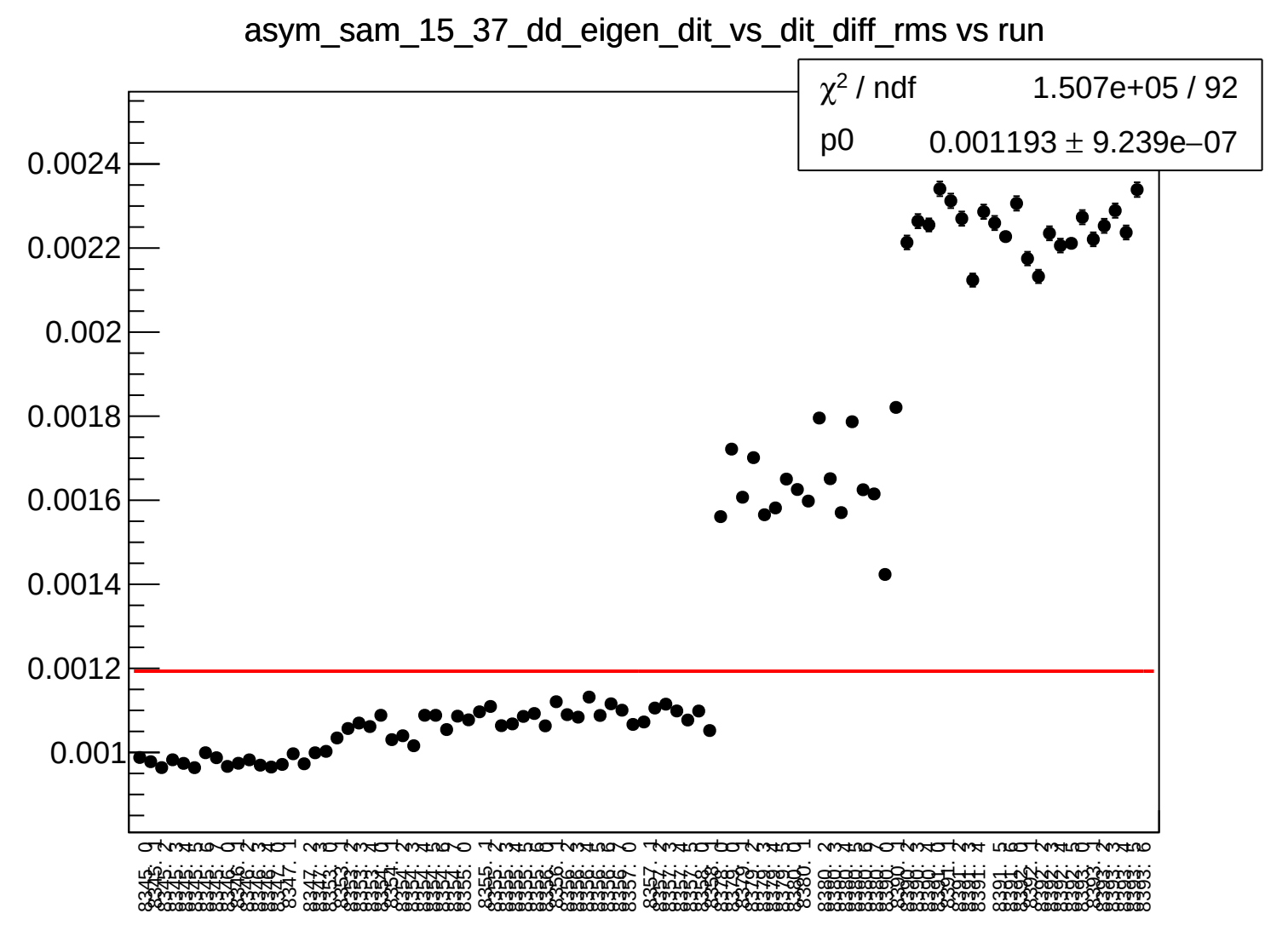

pull1D
Entries 93
Mean −0.04603
Std Dev 1.109

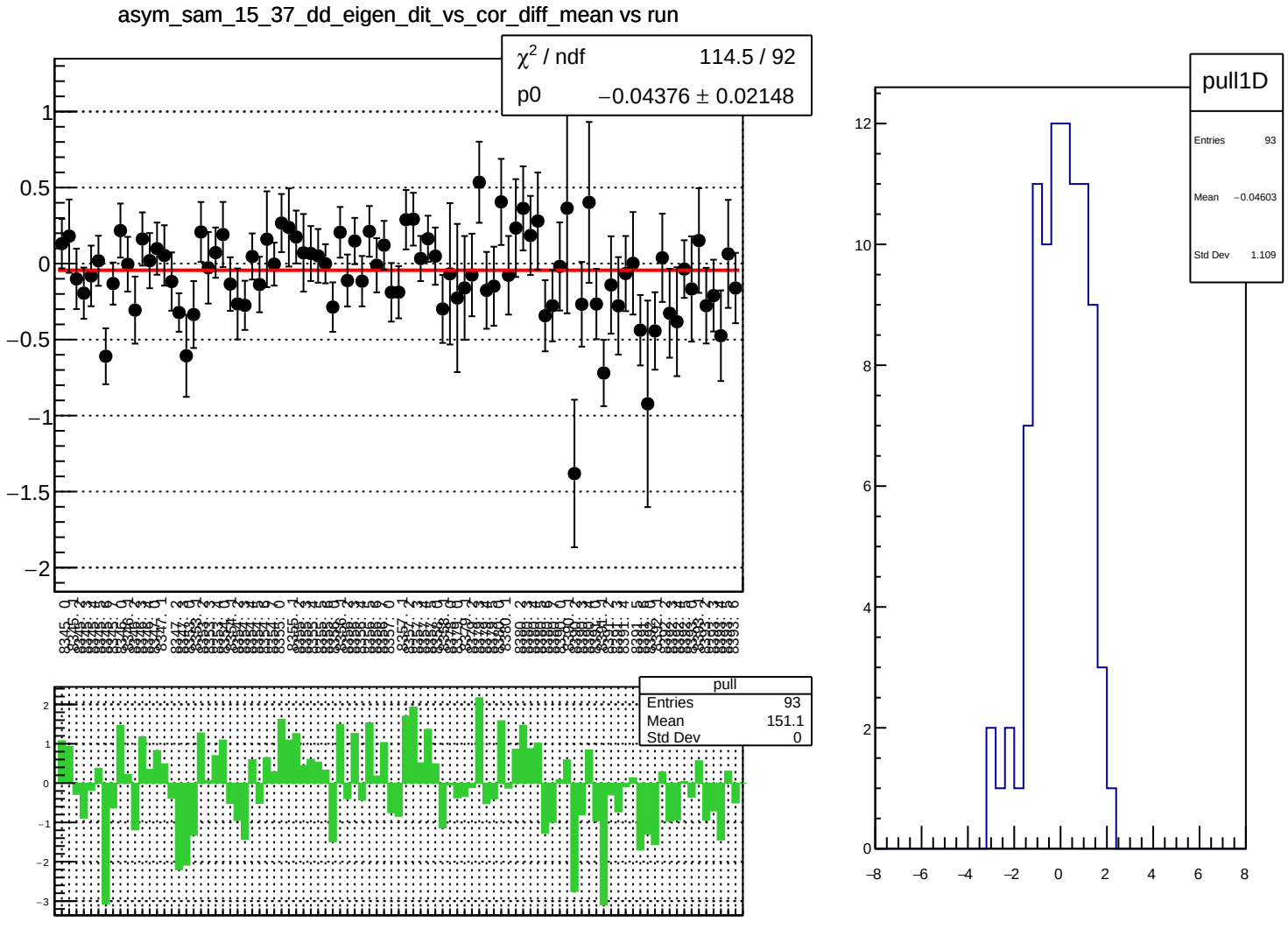

asym_sam_15_37_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.336e+05 / 92
p0 19.71 ± 0.01519
70
60
50
40
30
20
10

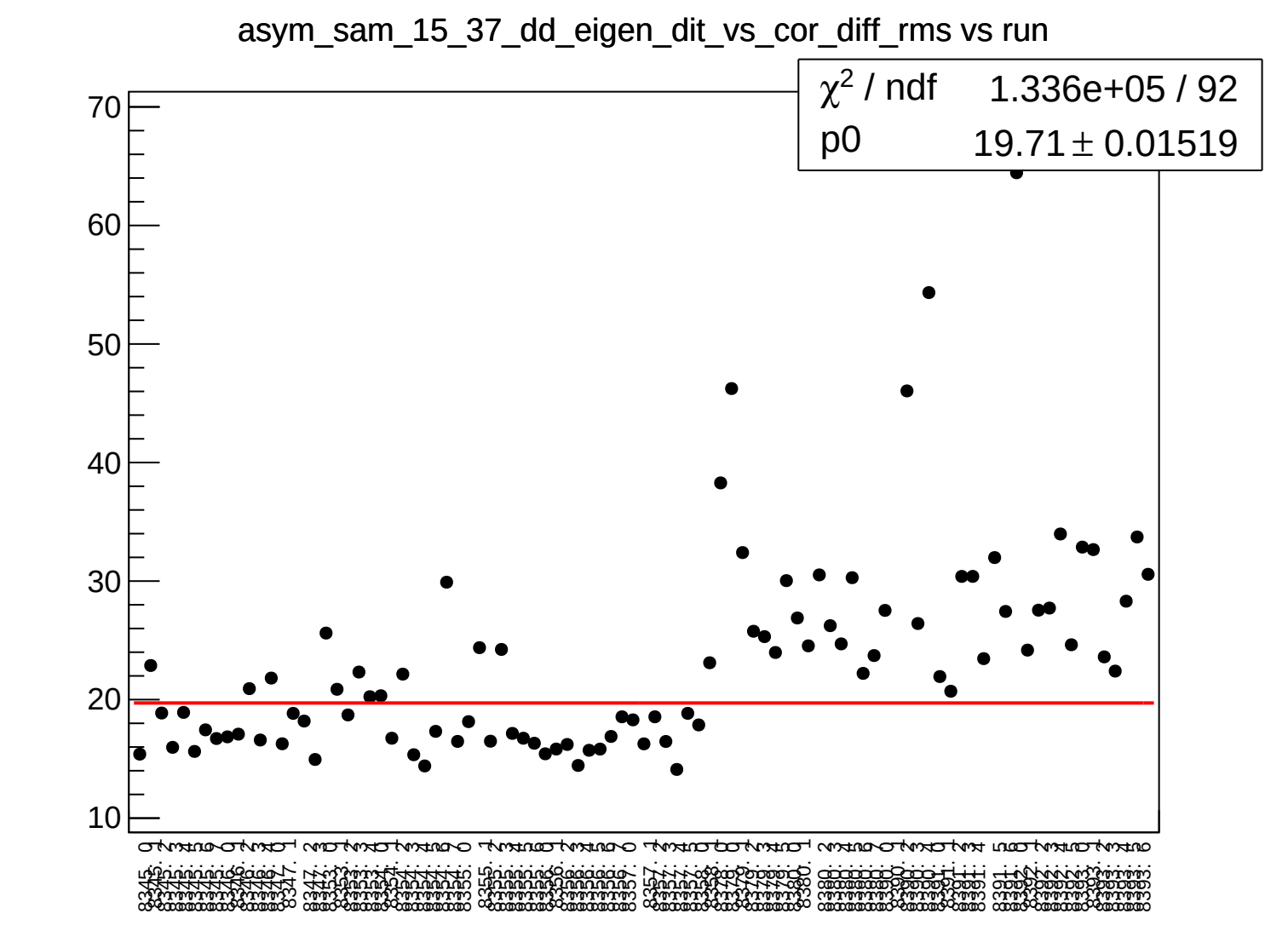

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 114.5 / 92
p0 −0.04376 ± 0.02148
pull
Entries 93
Mean 151.1
Std Dev 0
pull1D
Entries 93
Mean −0.04603
Std Dev 1.109

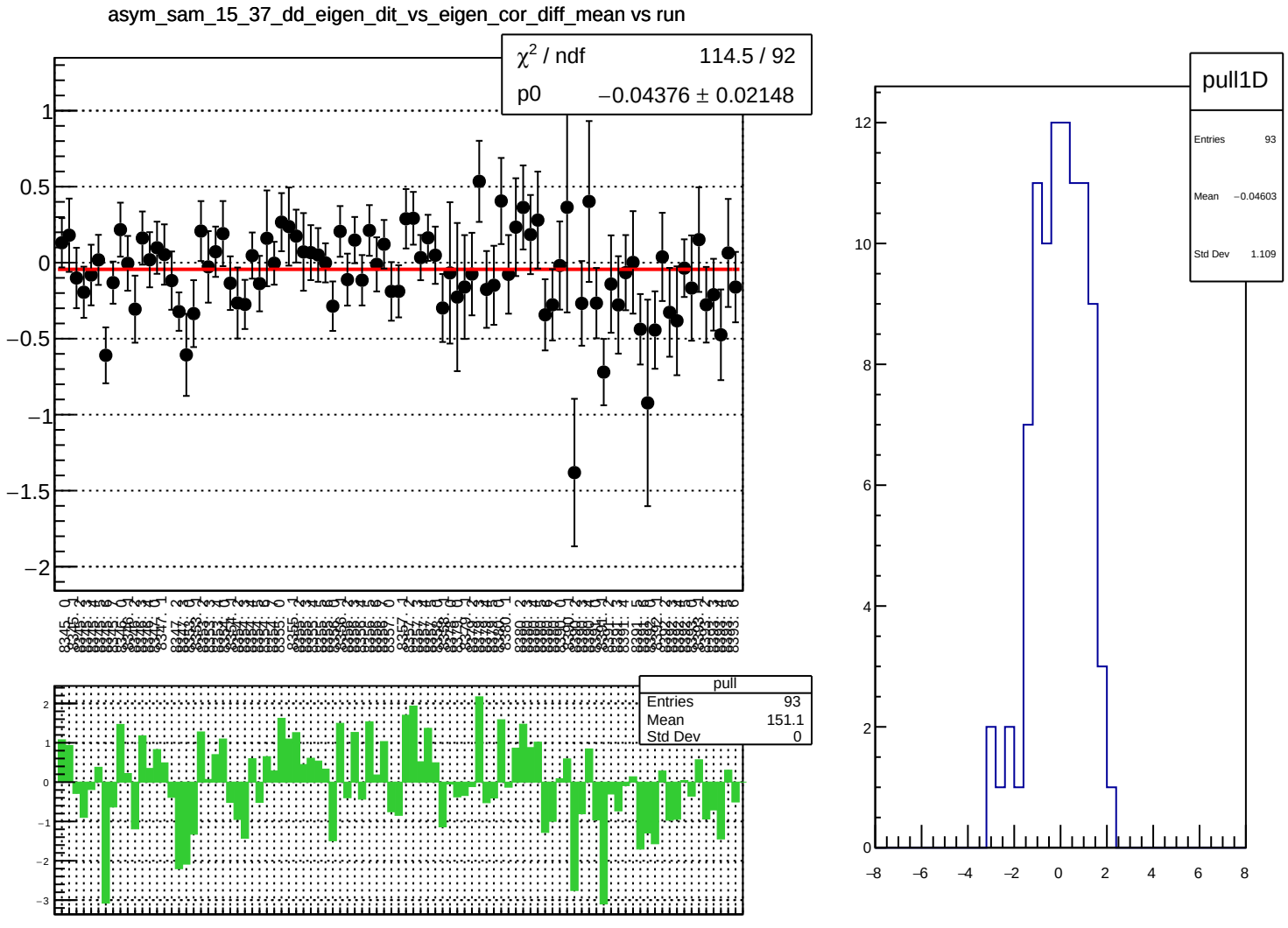

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.336e+05 / 92
p0 19.71 ± 0.01519
70
60
50
40
30
20
10

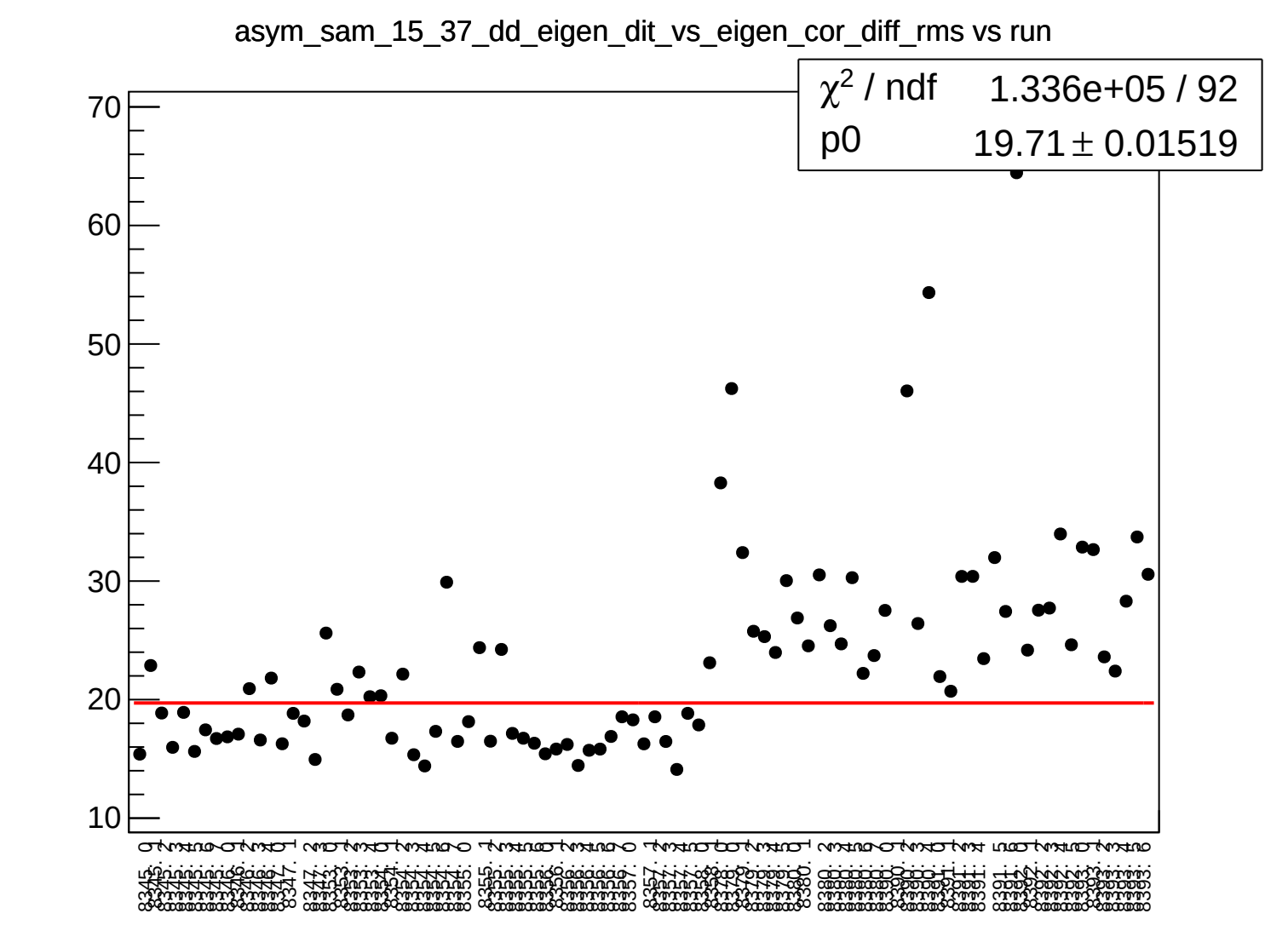

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 101.3 / 92
p0 −1.536e−08 ± 1.307e−06
pull
Entries 93
Mean 131.1
Std Dev 0
pull1D
Entries 93
Mean 0.08269
Std Dev 1.041

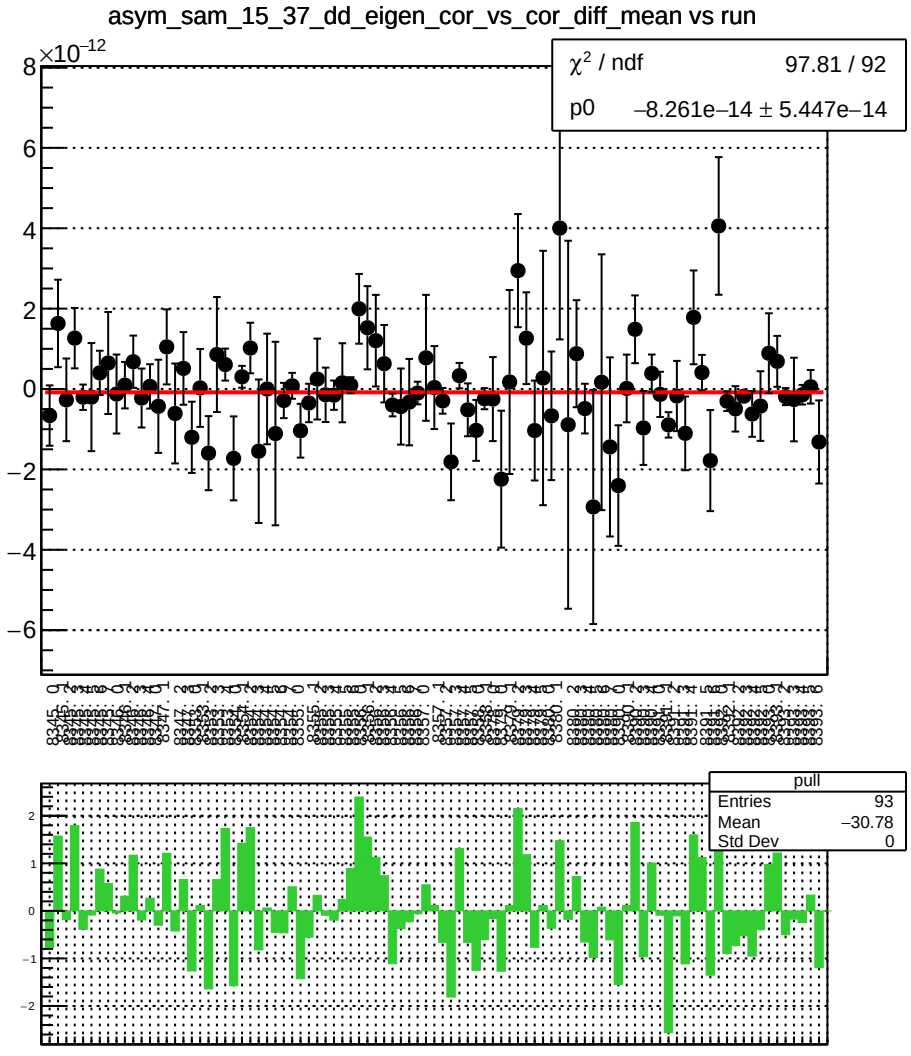

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.507e+05 / 92
p0 0.001193 ± 9.239e−07
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001

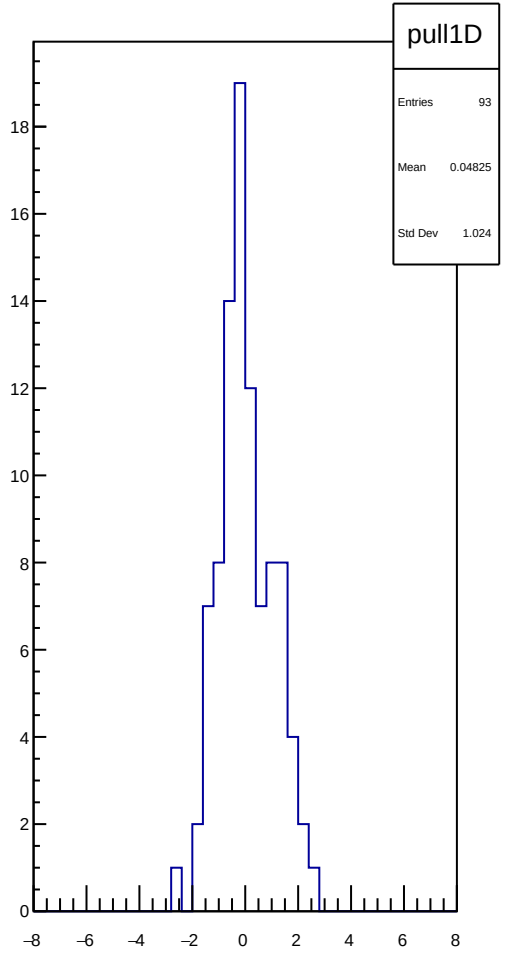

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 114.5 / 92
p0 −0.04376 ± 0.02148
pull
Entries 93
Mean 151.1
Std Dev 0
pull1D
Entries 93
Mean −0.04603
Std Dev 1.109

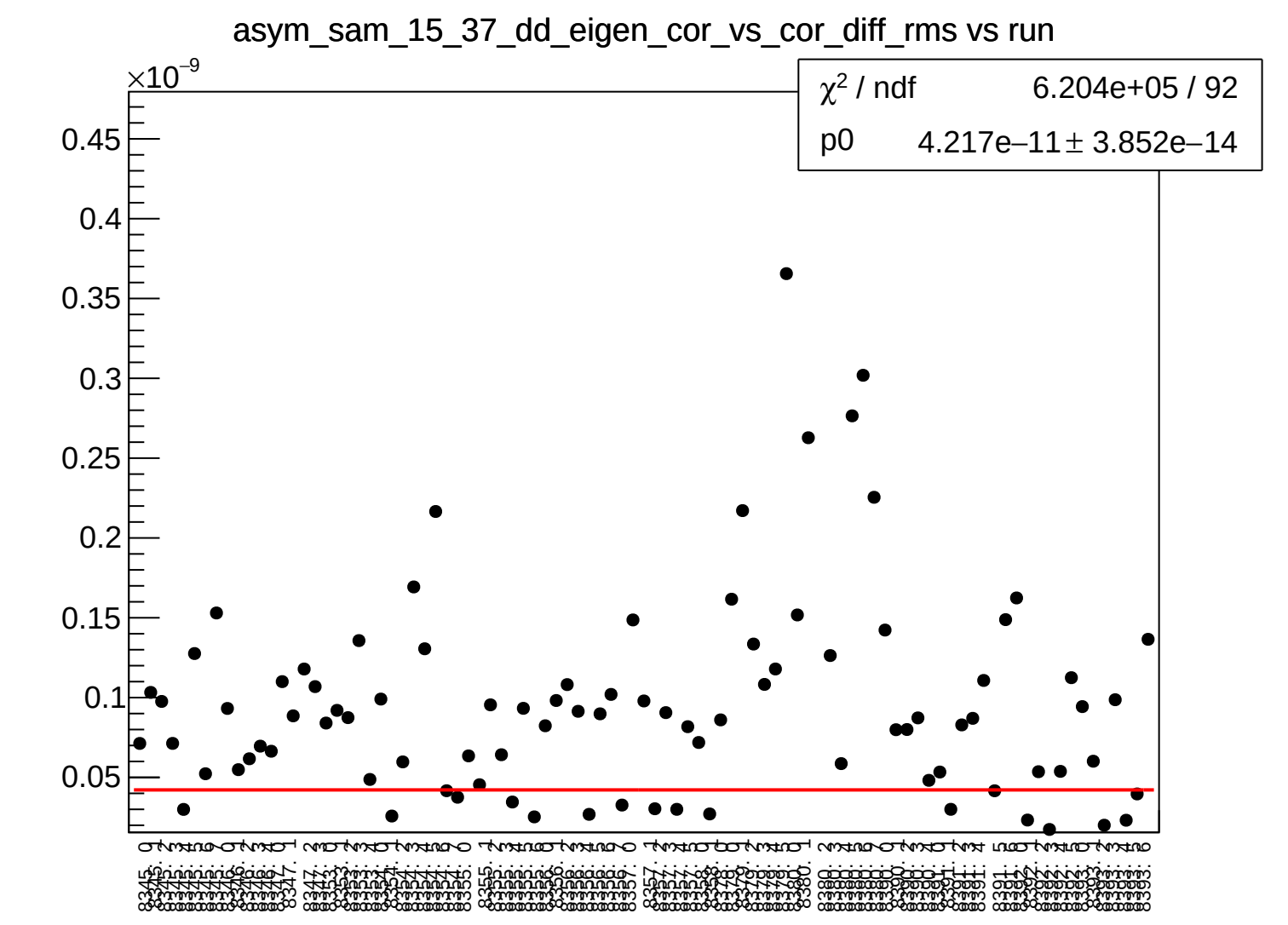

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.336e+05 / 92
p0 19.71 ± 0.01519
70
60
50
40
30
20
10

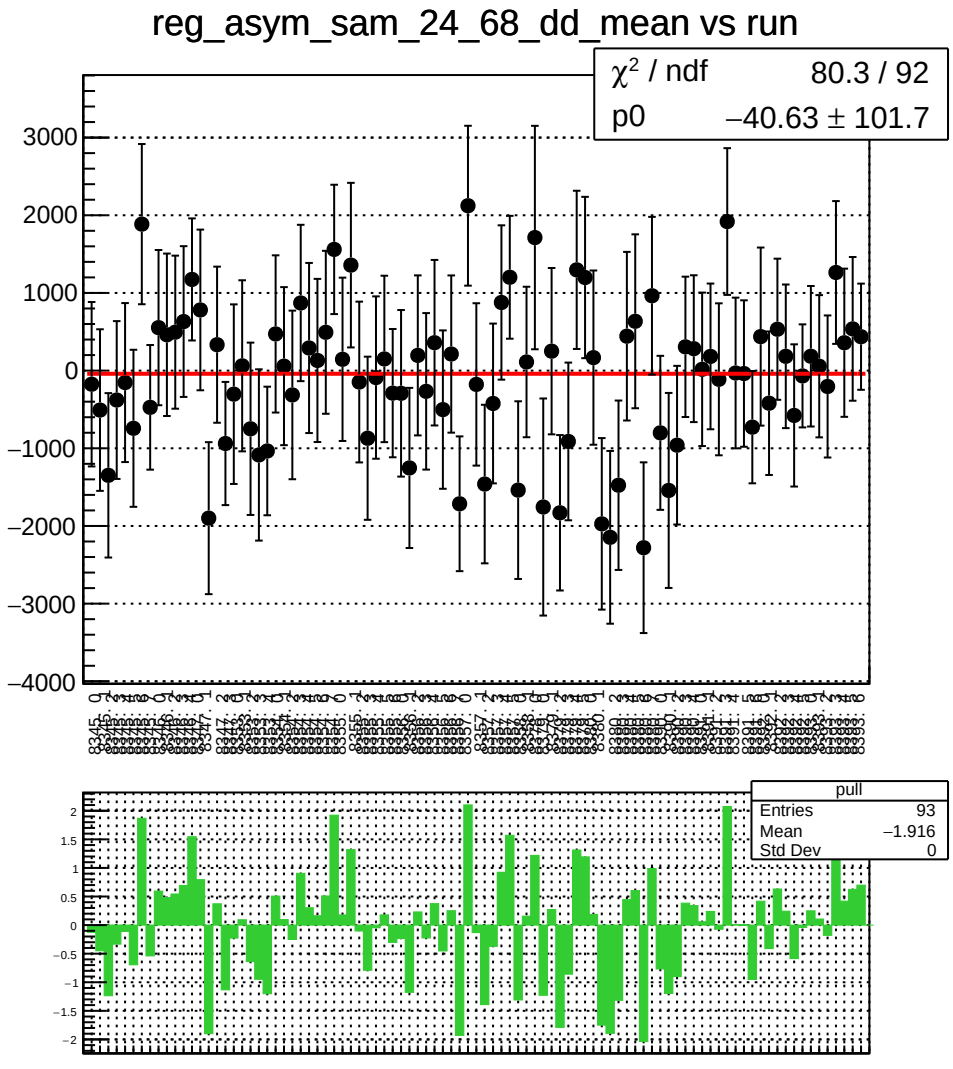

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 114.5 / 92
p0 −0.04376 ± 0.02148
pull
Entries 93
Mean 151.1
Std Dev 0
pull1D
Entries 93
Mean −0.04603
Std Dev 1.109

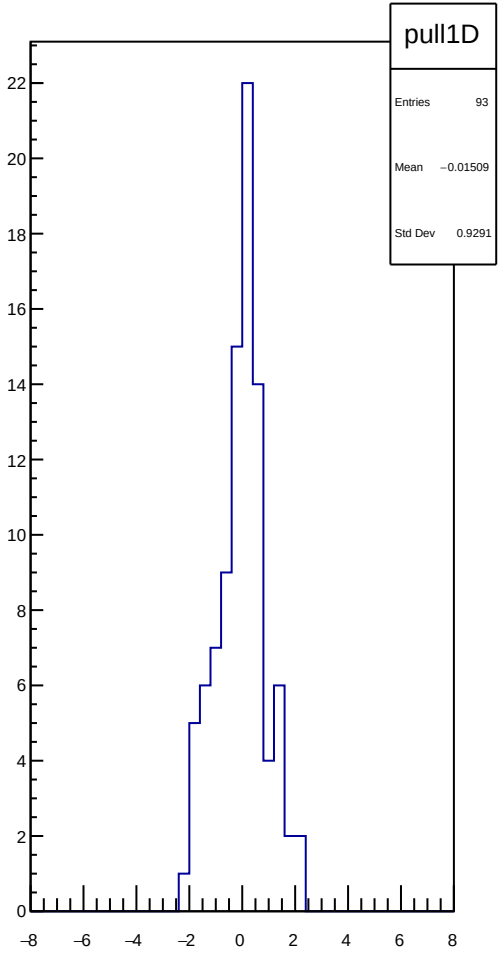

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.336e+05 / 92
p0 19.71 ± 0.01519
70
60
50
40
30
20
10

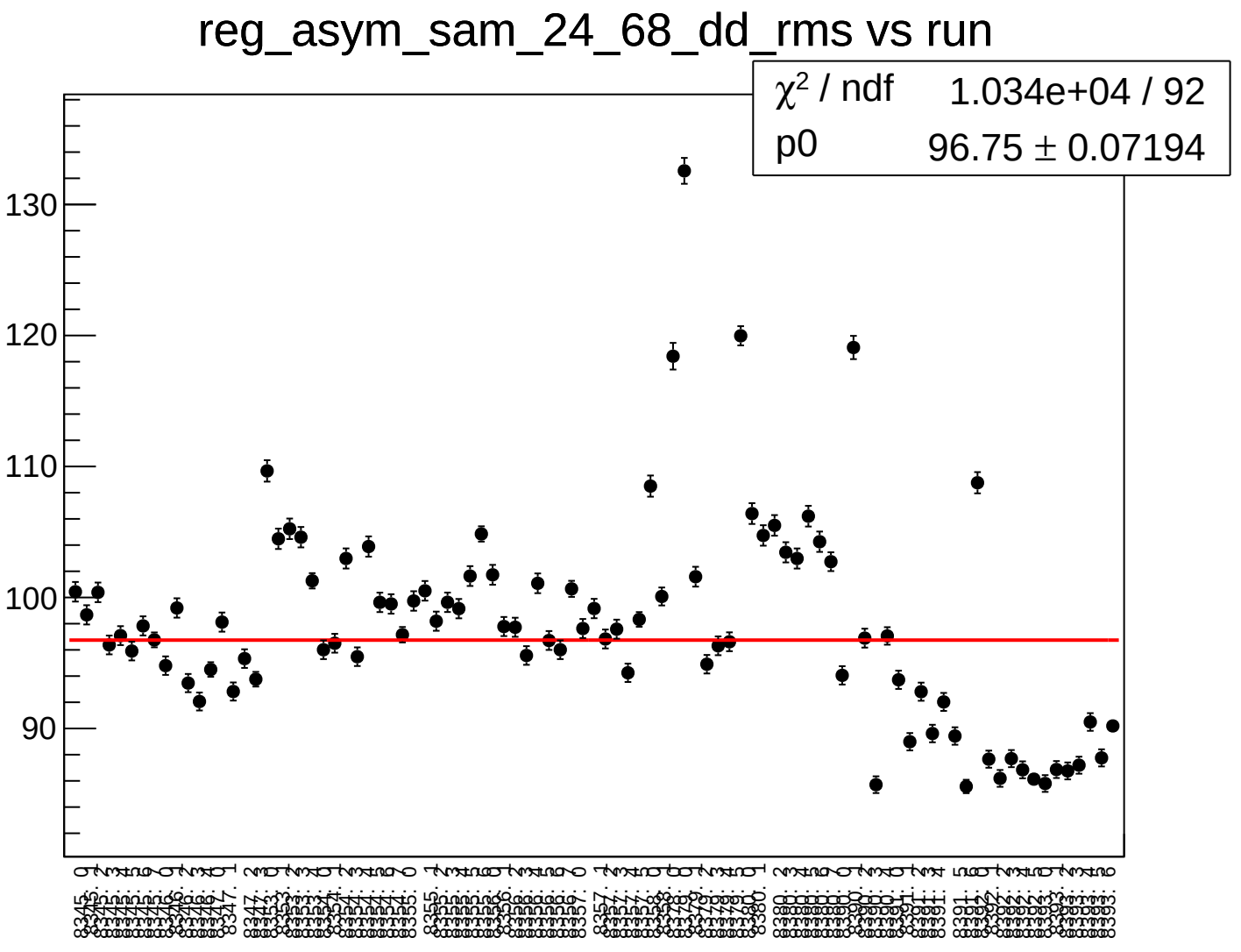

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.81 / 92
p0 −8.261e−14 ± 5.447e−14
pull
Entries 93
Mean −30.78
Std Dev 0

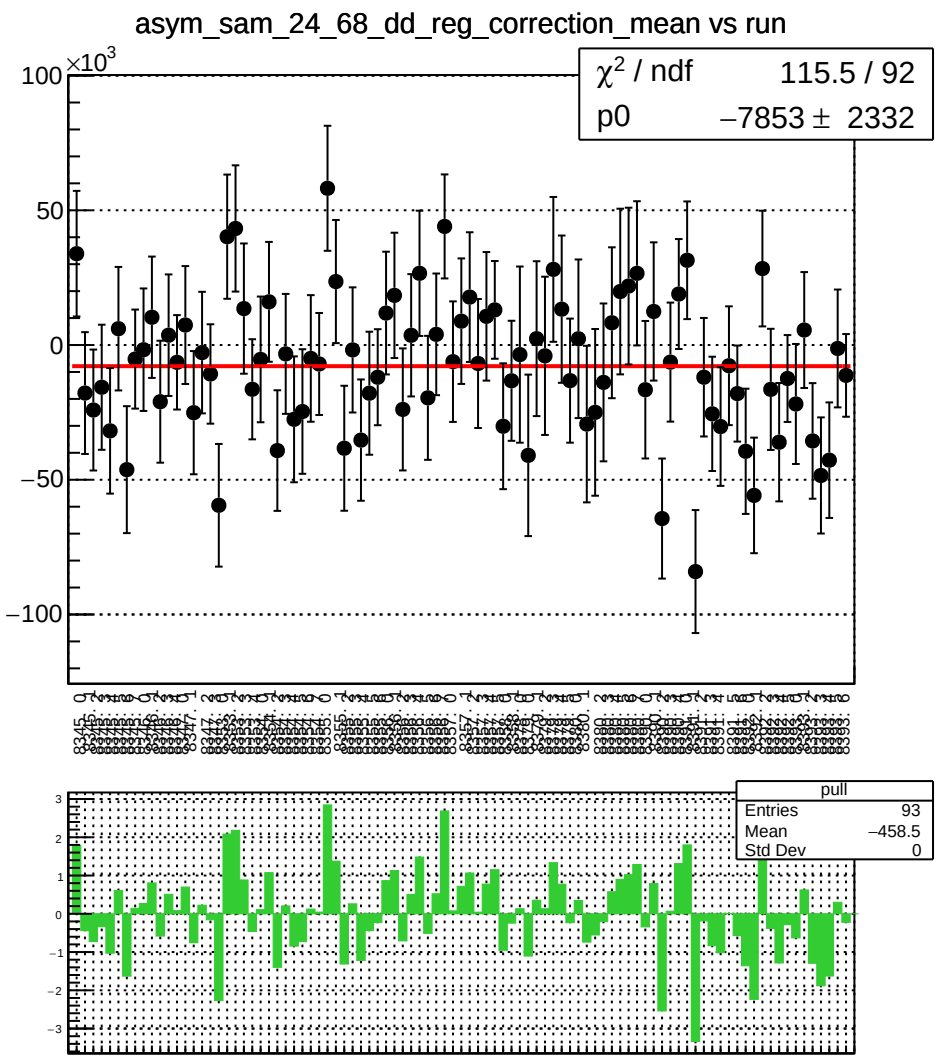

pull1D
Entries 93
Mean 0.04825
Std Dev 1.024

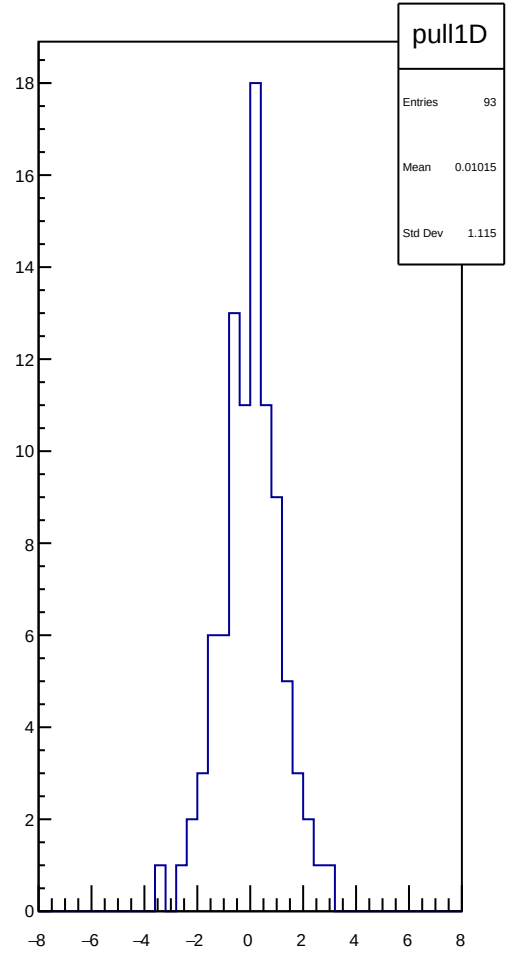

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.204e+05 / 92
p0 4.217e−11 ± 3.852e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

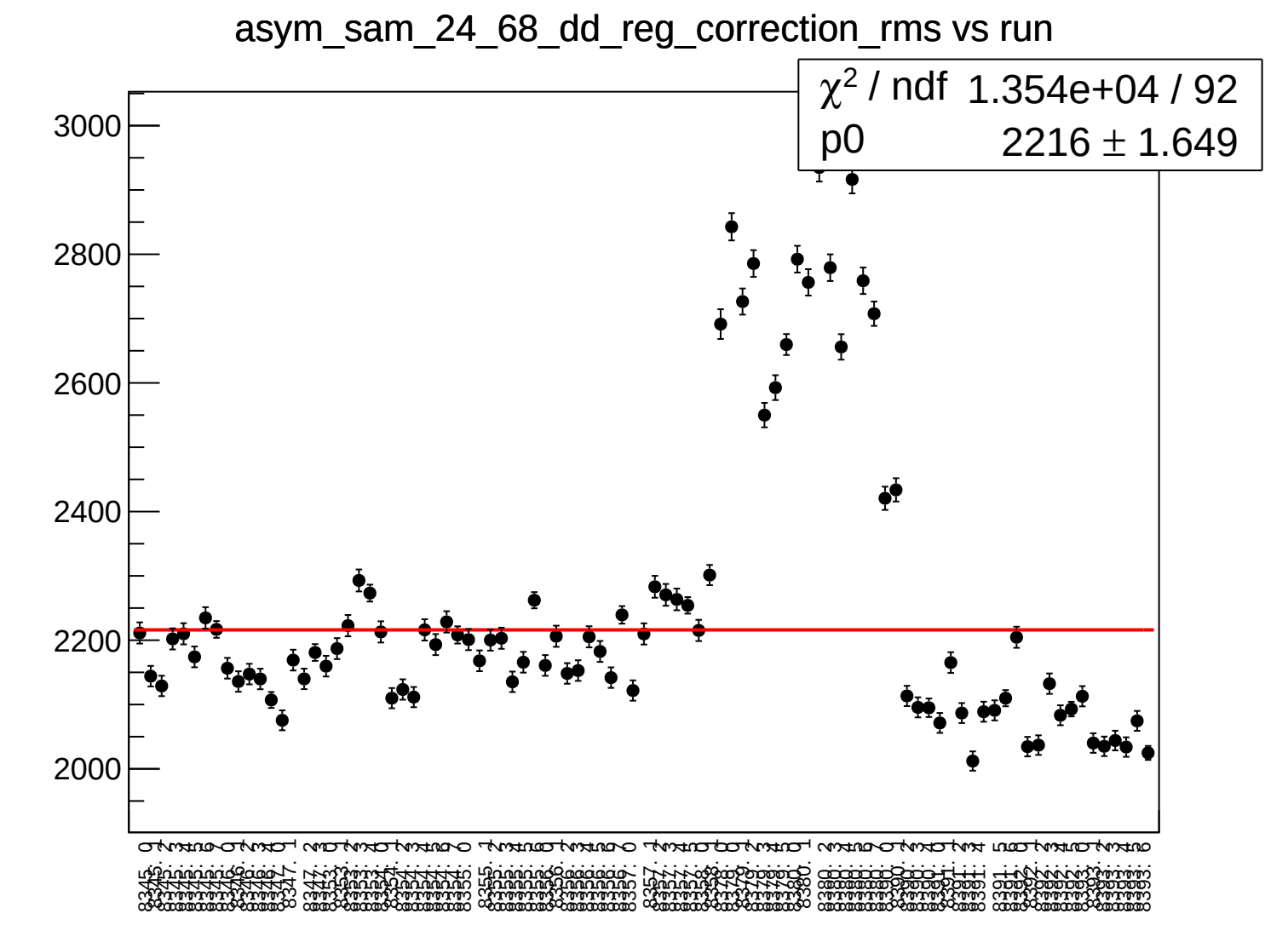

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 80.3 / 92
p0 −40.63 ± 101.7
pull
Entries 93
Mean −1.916
Std Dev 0

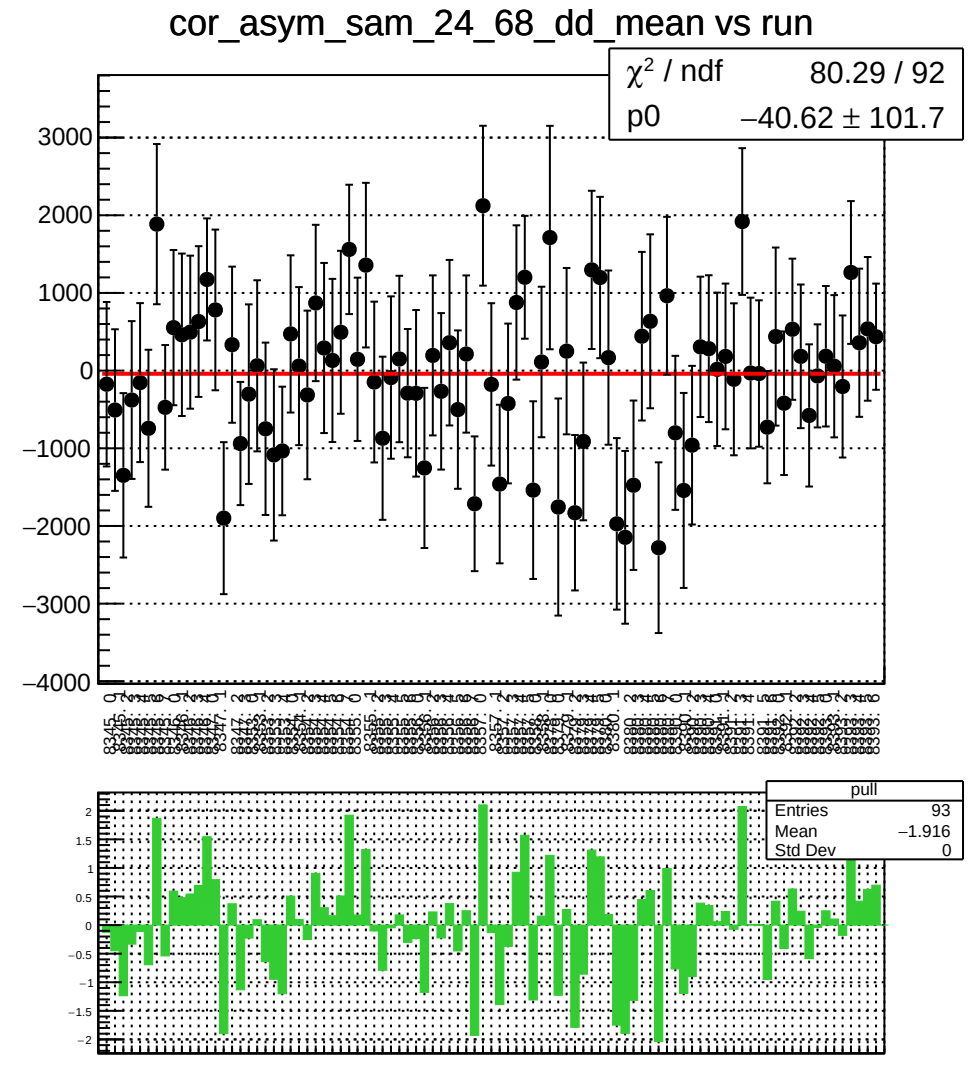

pull1D
Entries 93
Mean −0.01509
Std Dev 0.9291

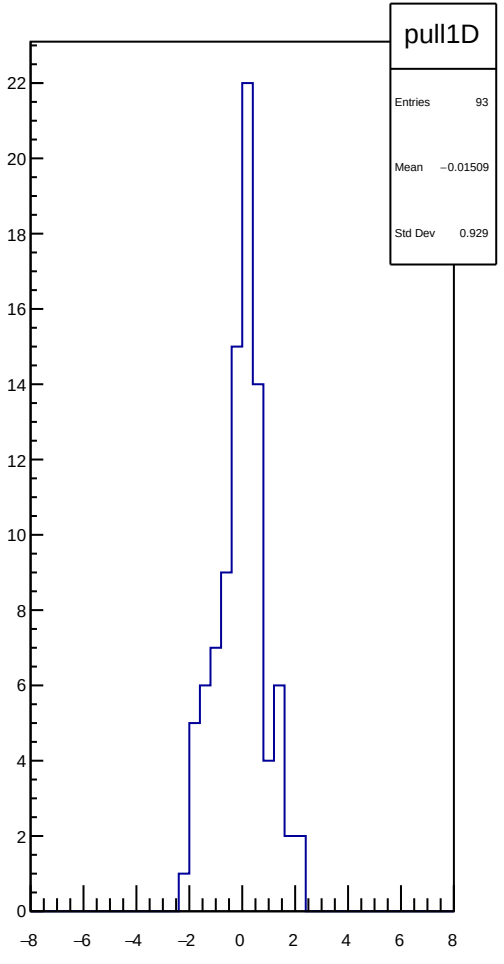

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.034e+04 / 92
p0 96.75 ± 0.07194
130
120
110
100
90

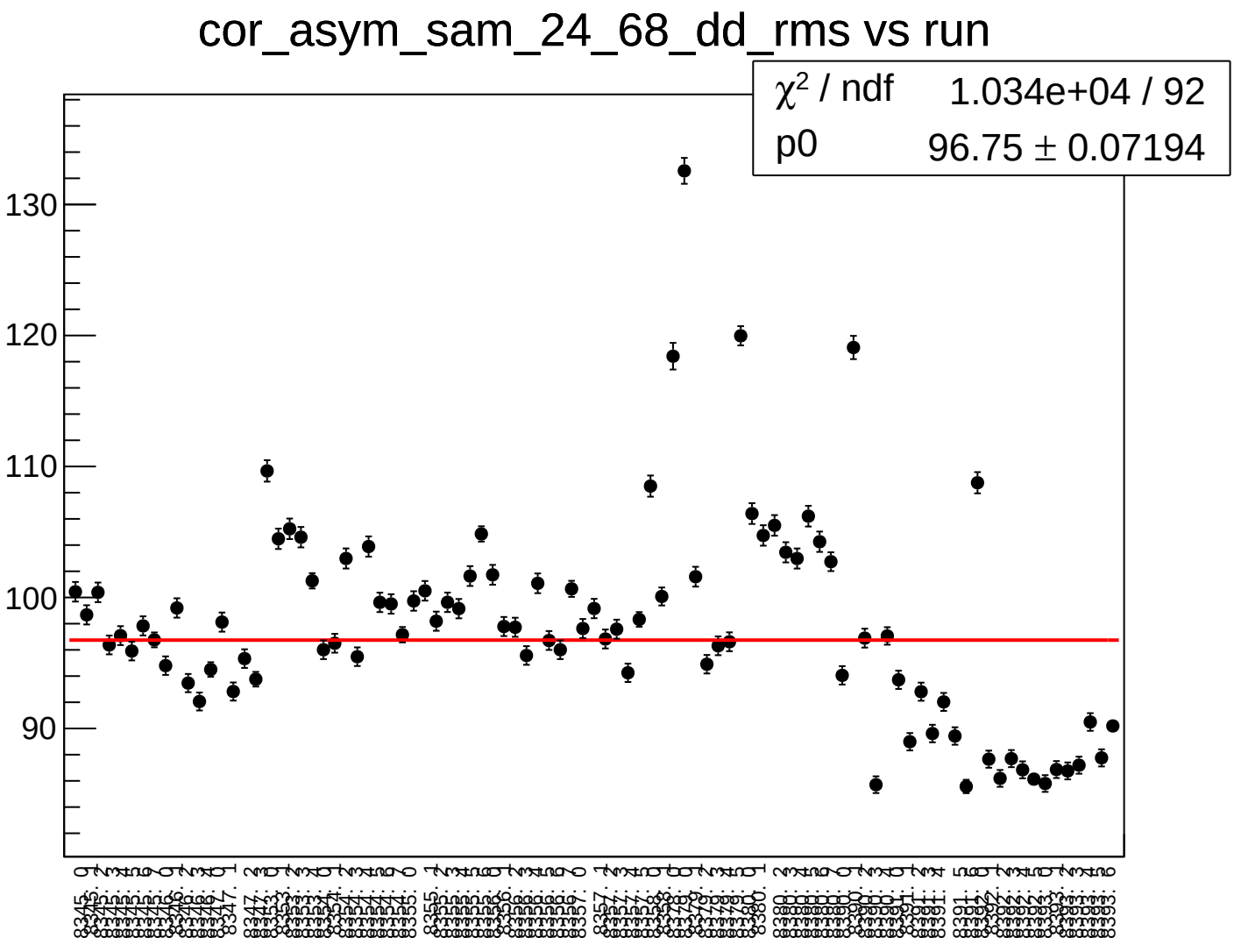

asym_sam_24_68_dd_reg_correction_mean vs run
χ² / ndf 115.5 / 92
p0 −7853 ± 2332
×10³
pull
Entries 93
Mean −458.5
Std Dev 0

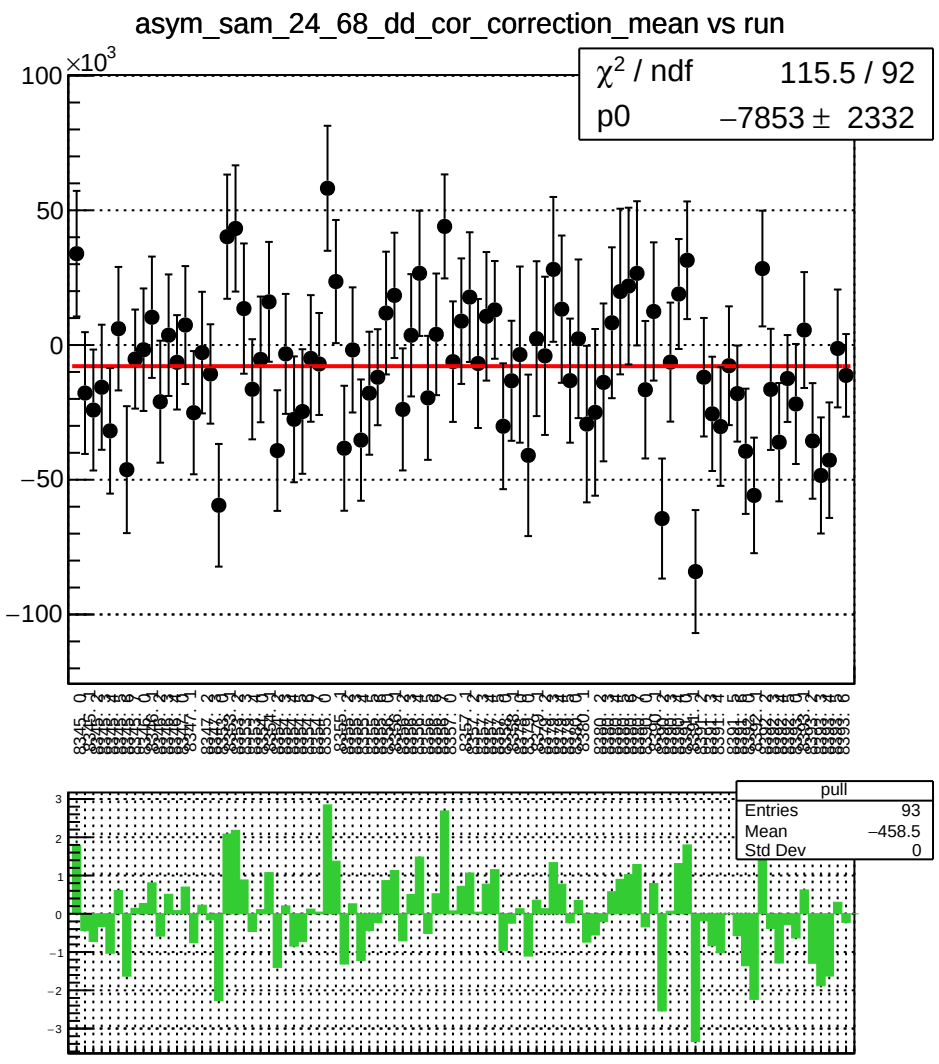

pull1D
Entries 93
Mean 0.01015
Std Dev 1.115

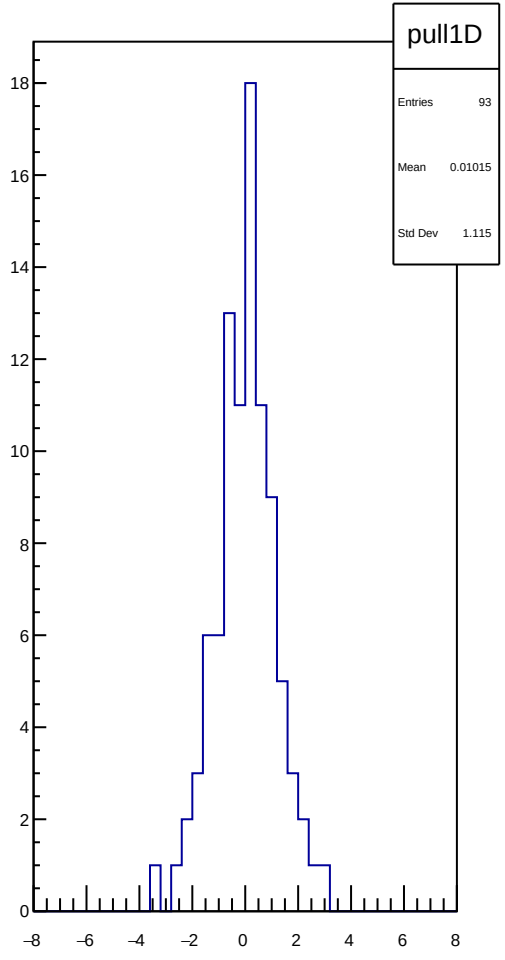

asym_sam_24_68_dd_reg_correction_rms vs run
χ² / ndf 1.354e+04 / 92
p0 2216 ± 1.649
3000
2800
2600
2400
2200
2000

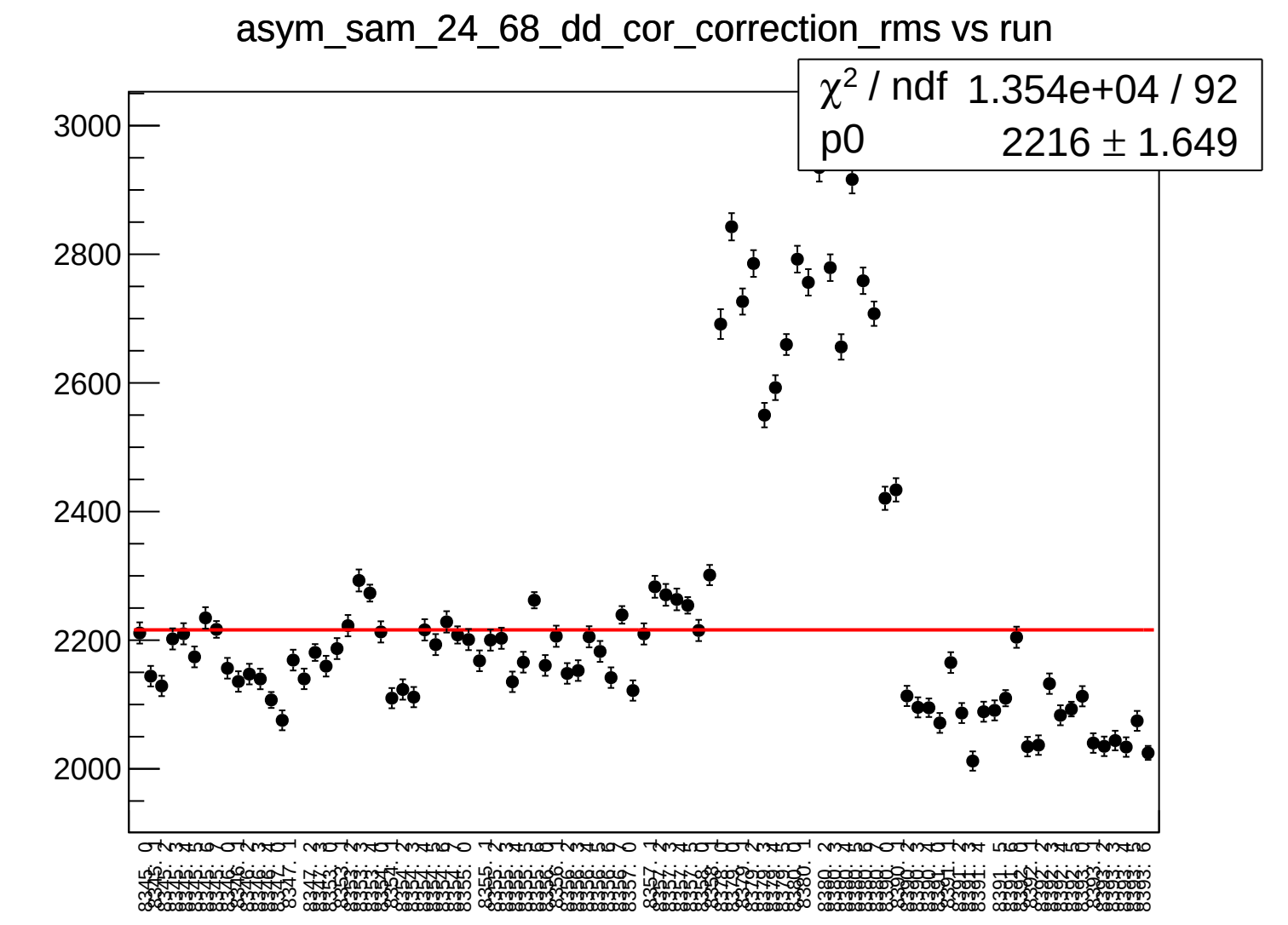

cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 80.29 / 92
p0 −40.62 ± 101.7
pull
Entries 93
Mean −1.916
Std Dev 0

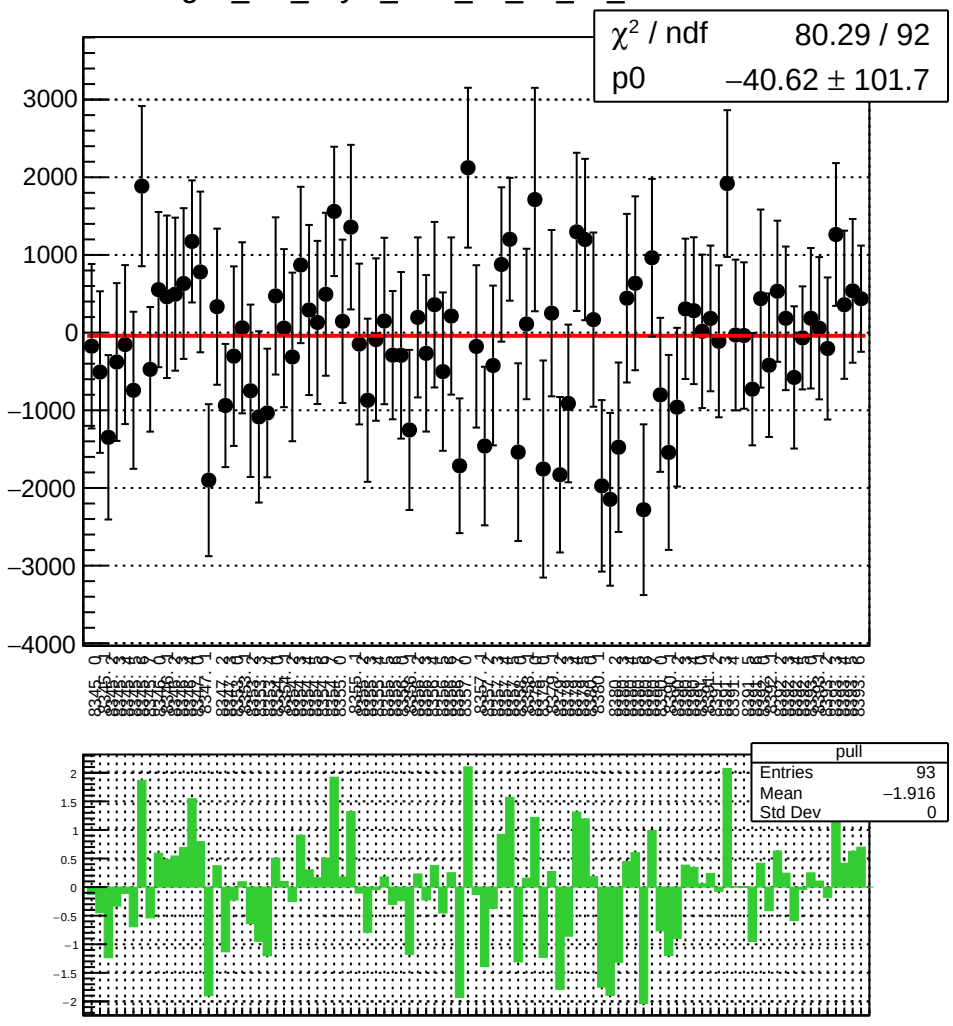

pull1D
Entries 93
Mean −0.01509
Std Dev 0.929

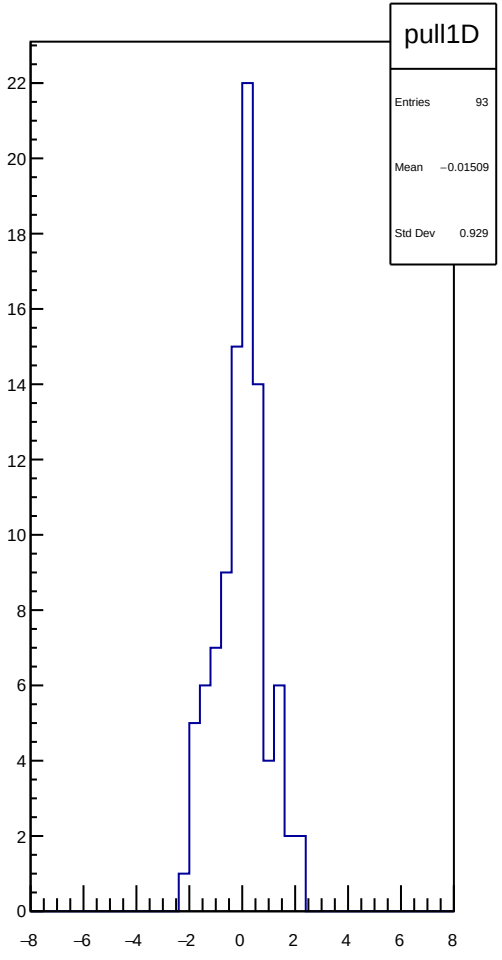

cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.034e+04 / 92
p0 96.75 ± 0.07194
130
120
110
100
90

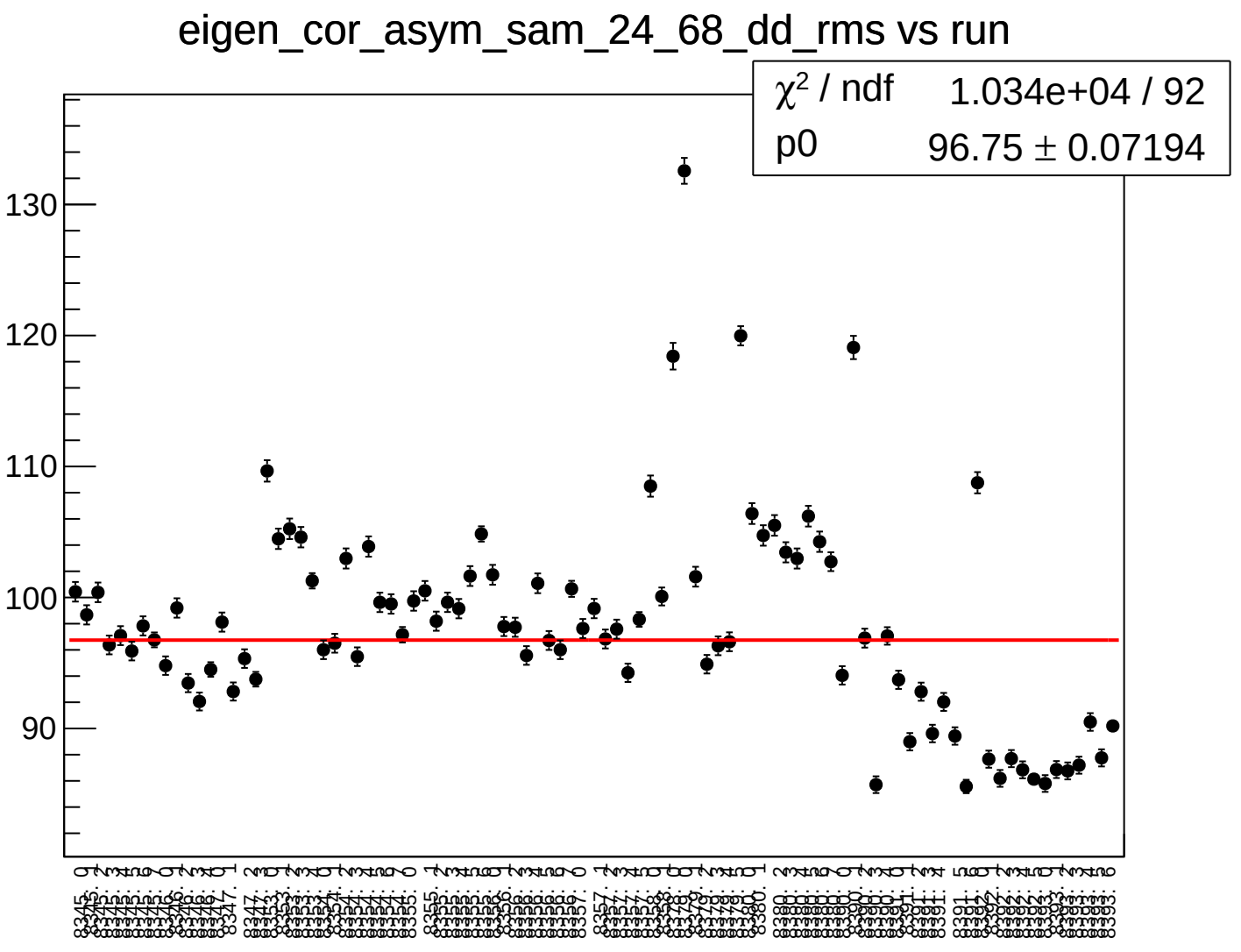

asym_sam_24_68_dd_cor_correction_mean vs run
χ² / ndf 115.5 / 92
p0 −7853 ± 2332
×10³
100
50
0
−50
−100
pull
Entries 93
Mean −458.5
Std Dev 0
3
2
1
0
−1
−2
−3

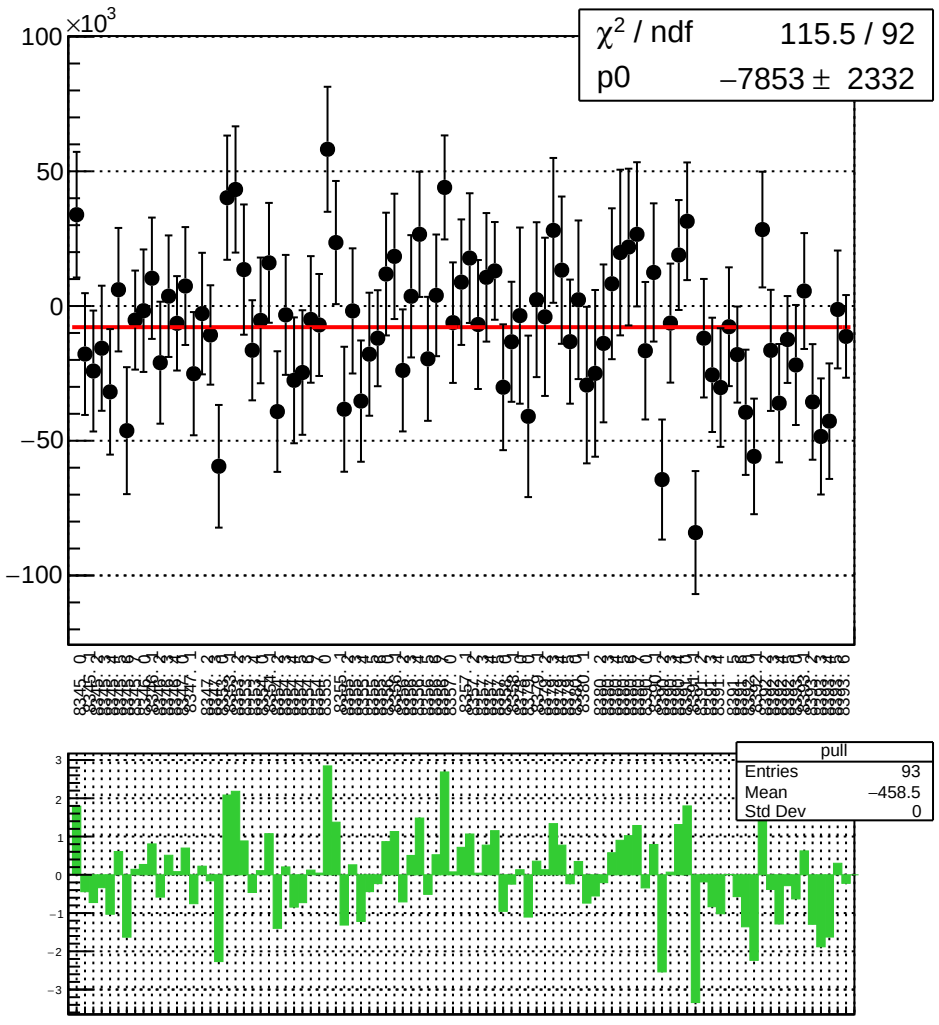

pull1D
Entries 93
Mean 0.01015
Std Dev 1.115
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

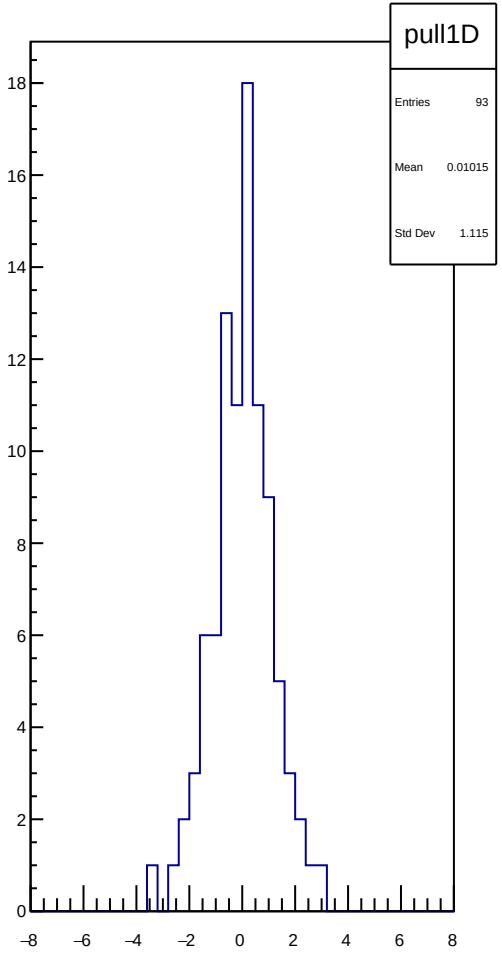

asym_sam_24_68_dd_cor_correction_rms vs run
χ² / ndf 1.354e+04 / 92
p0 2216 ± 1.649
3000
2800
2600
2400
2200
2000

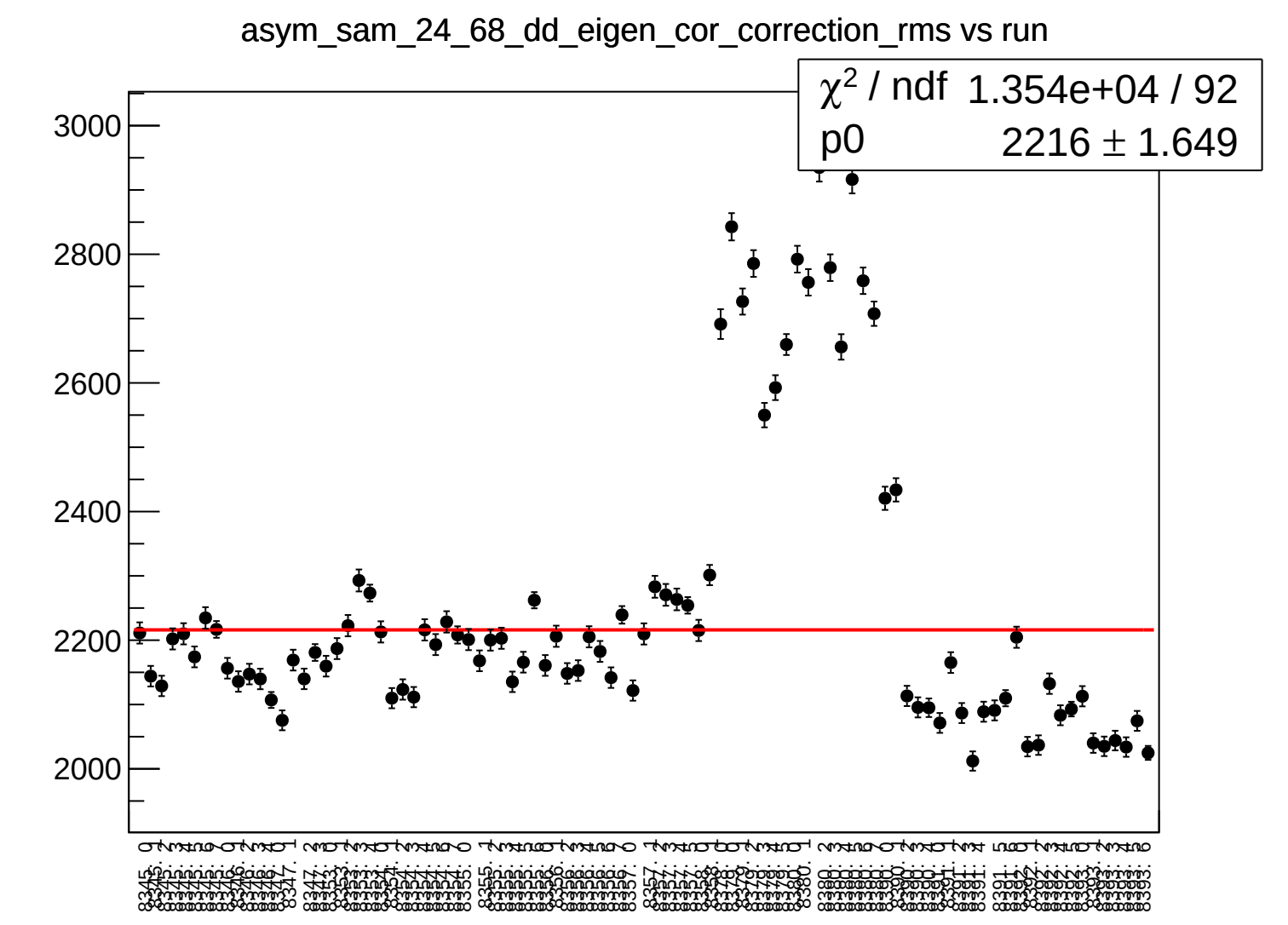

eigen_cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 80.29 / 92
p0 −40.62 ± 101.7
pull
Entries 93
Mean −1.916
Std Dev 0

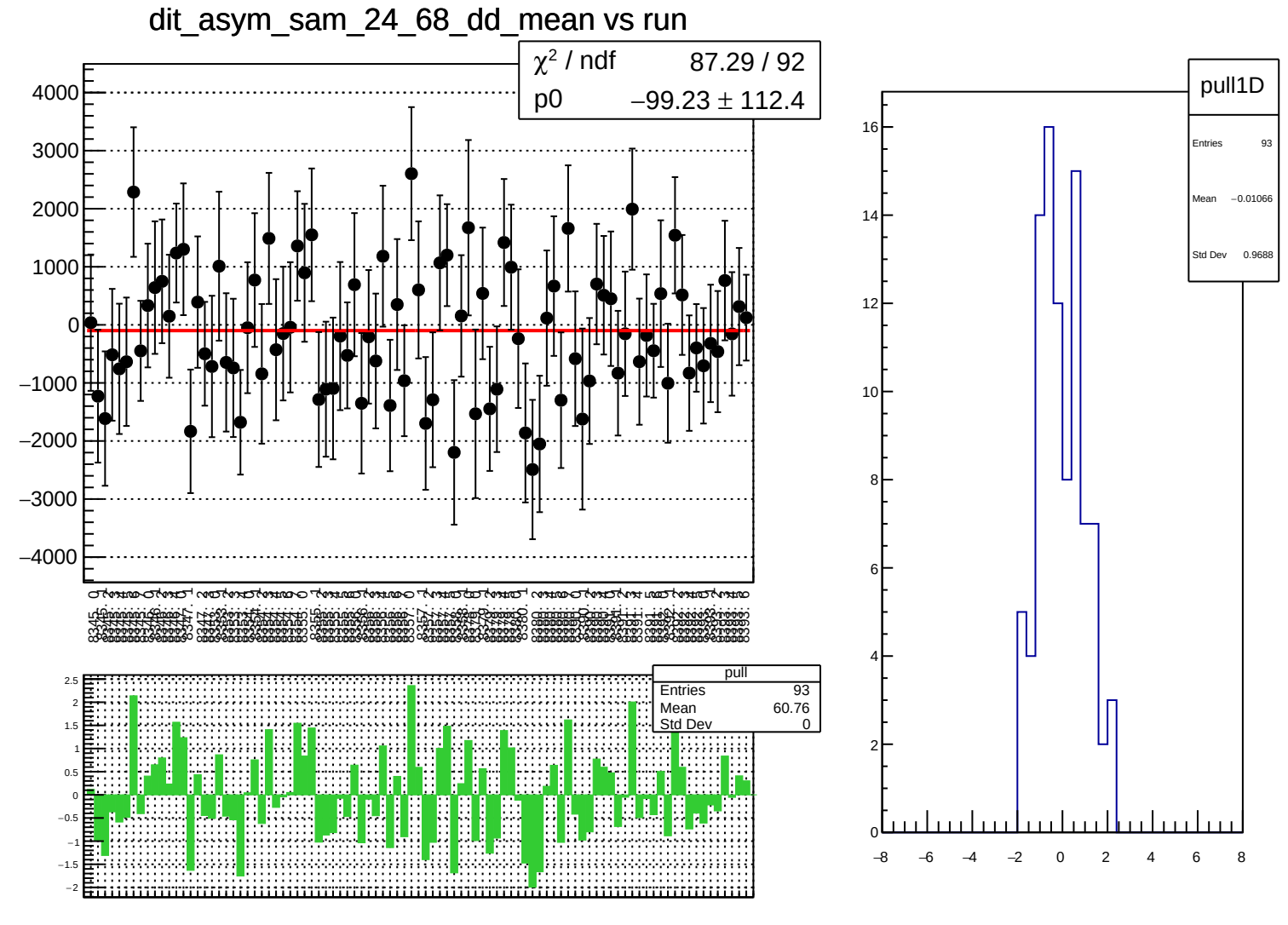

pull1D
Entries 93
Mean −0.01509
Std Dev 0.929

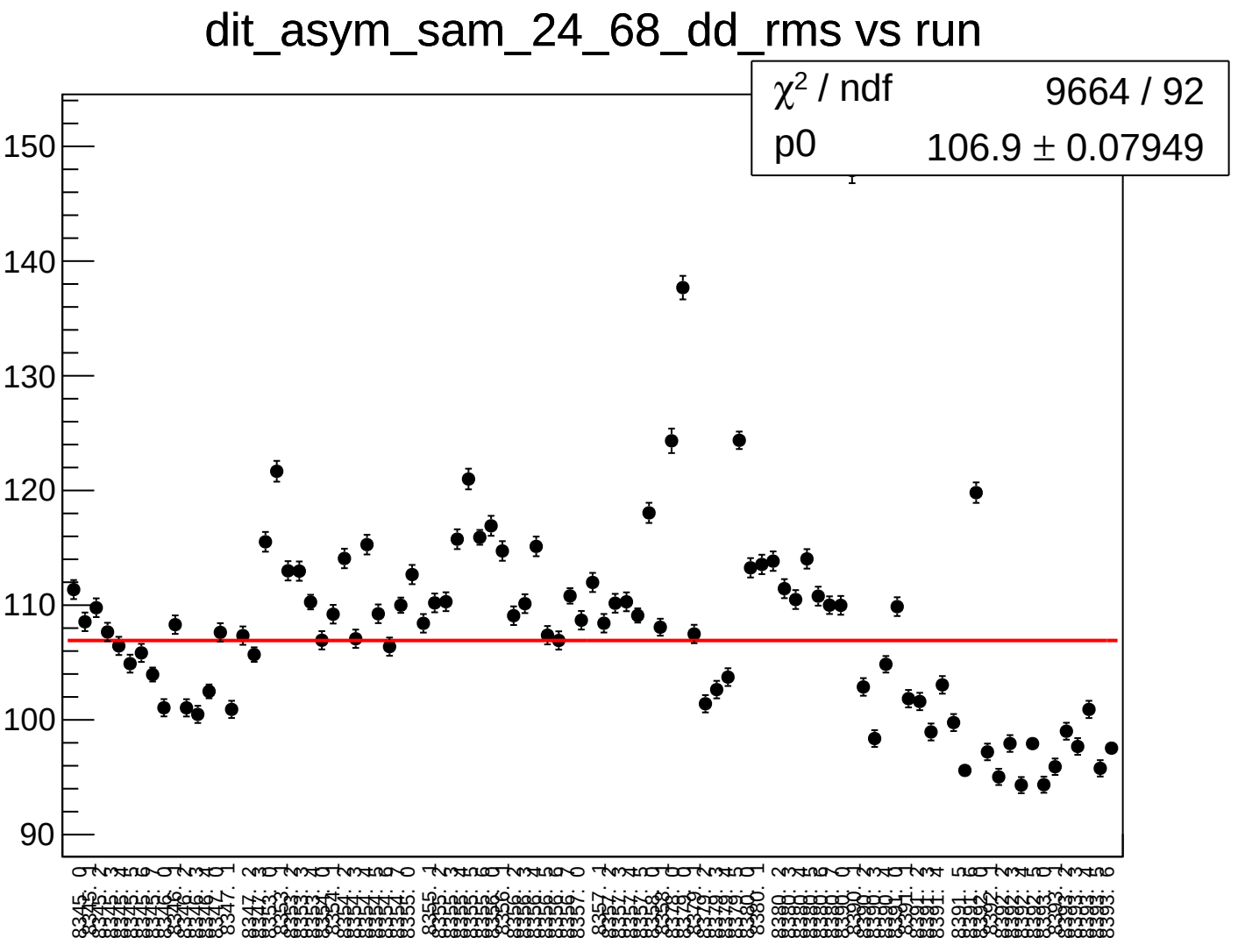

eigen_cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.034e+04 / 92
p0 96.75 ± 0.07194
130
120
110
100
90

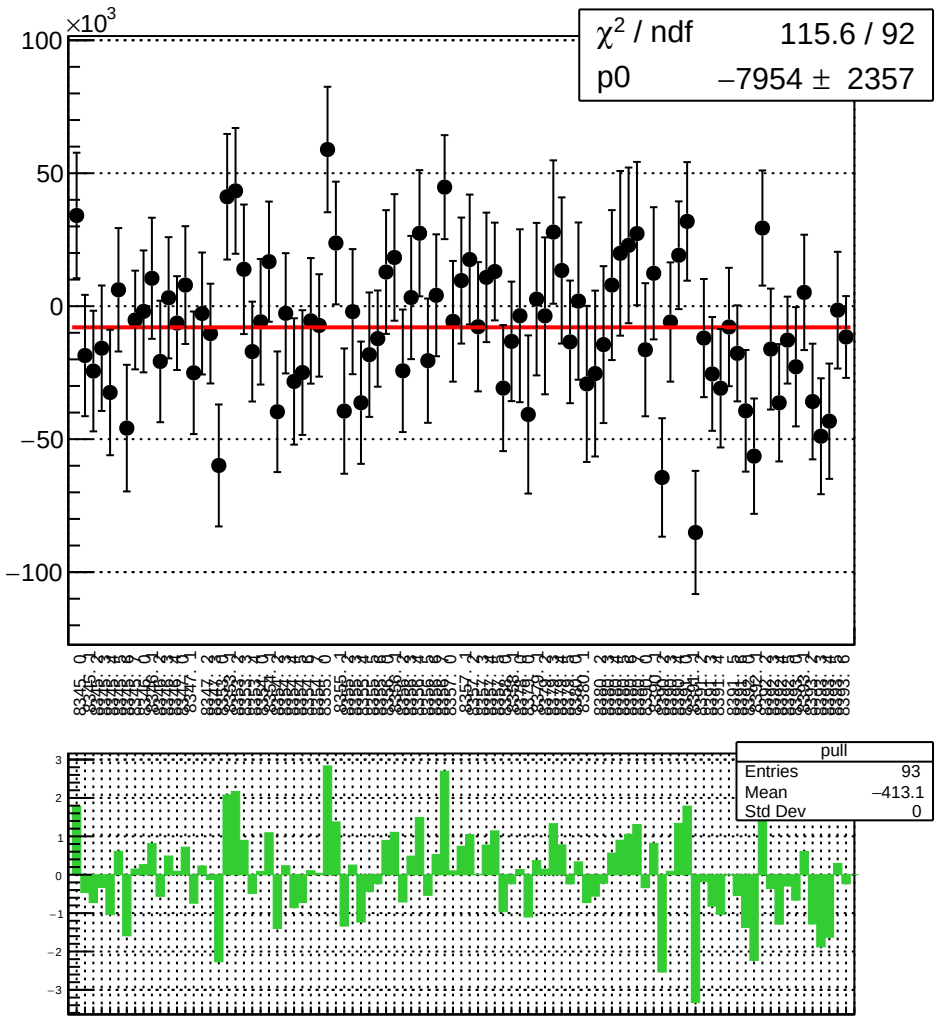

asym_sam_24_68_dd_eigen_cor_correction_mean vs run
χ^2 / ndf 115.5 / 92
p0 −7853 ± 2332
×10^3
pull
Entries 93
Mean −458.5
Std Dev 0

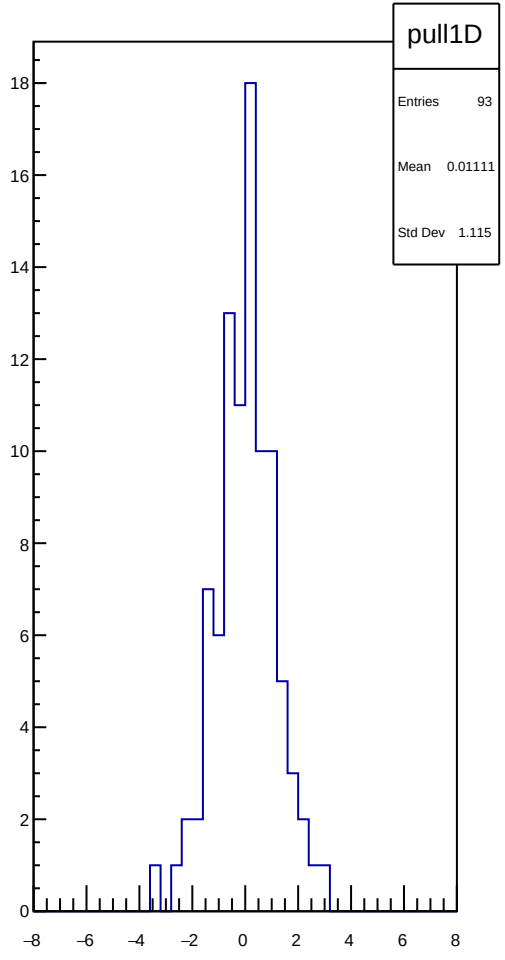

pull1D
Entries 93
Mean 0.01015
Std Dev 1.115

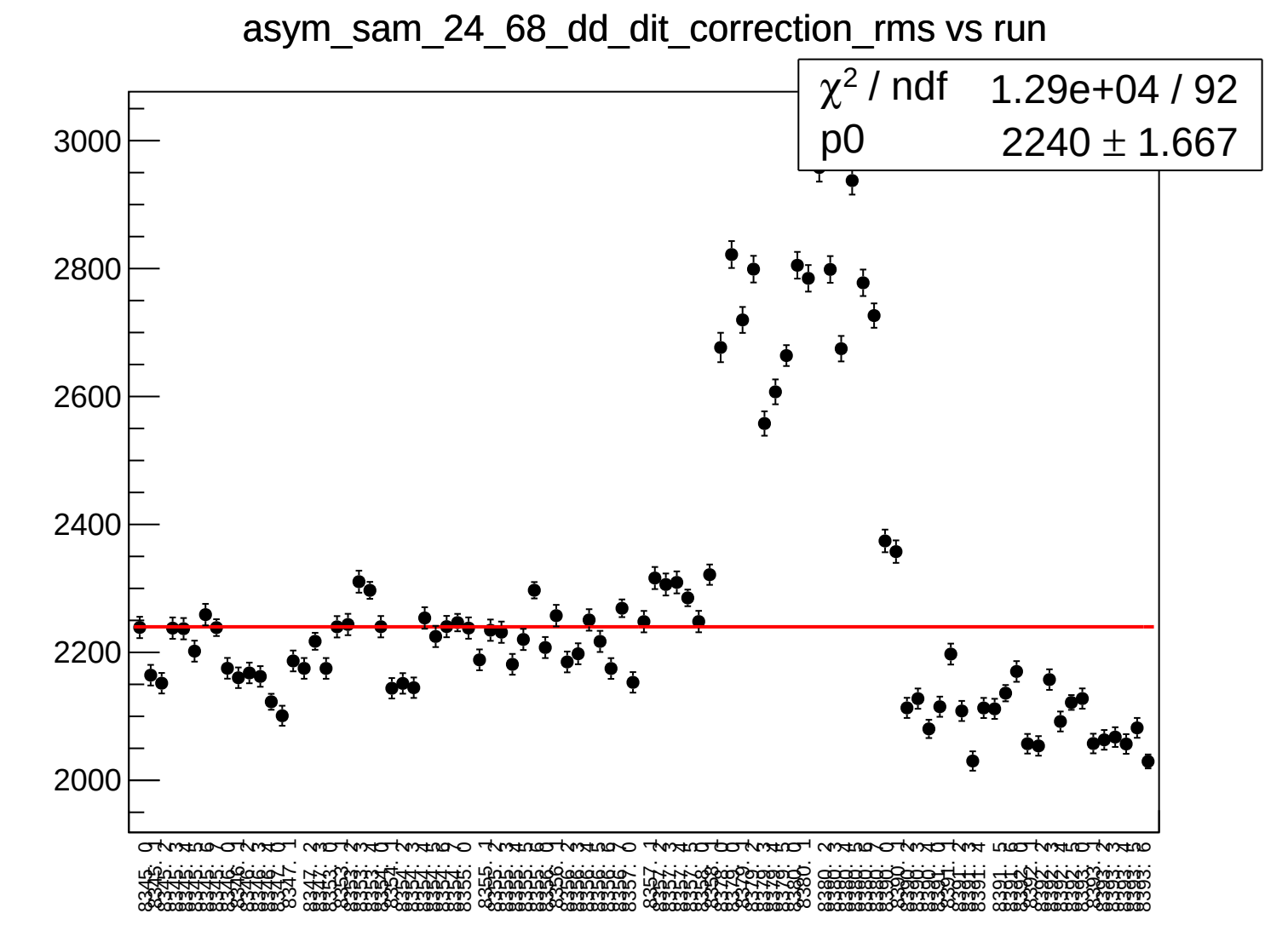

asym_sam_24_68_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.354e+04 / 92
p0 2216 ± 1.649
3000
2800
2600
2400
2200
2000

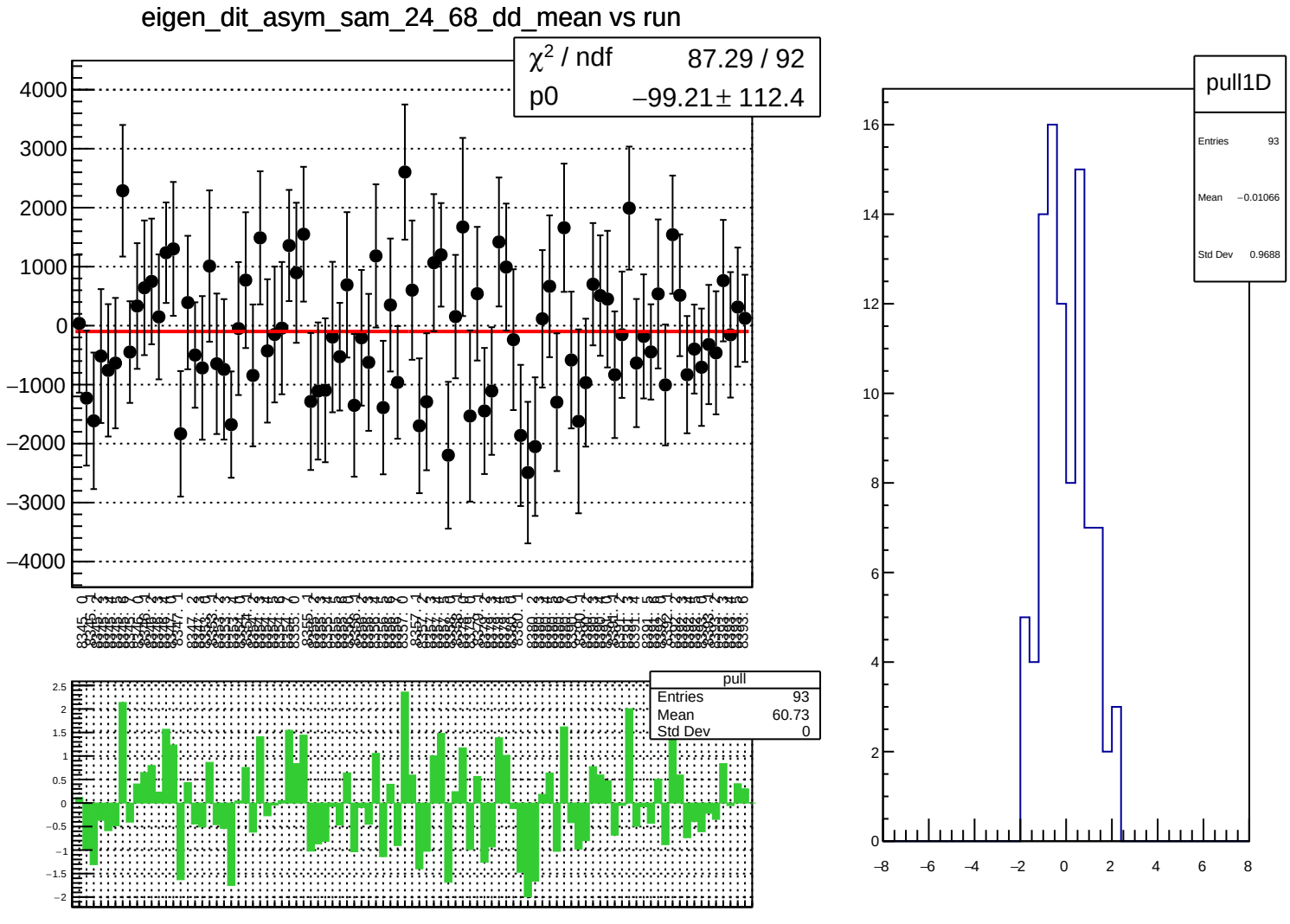

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 87.29 / 92
p0 −99.23 ± 112.4
pull
Entries 93
Mean 60.76
Std Dev 0
pull1D
Entries 93
Mean −0.01066
Std Dev 0.9688

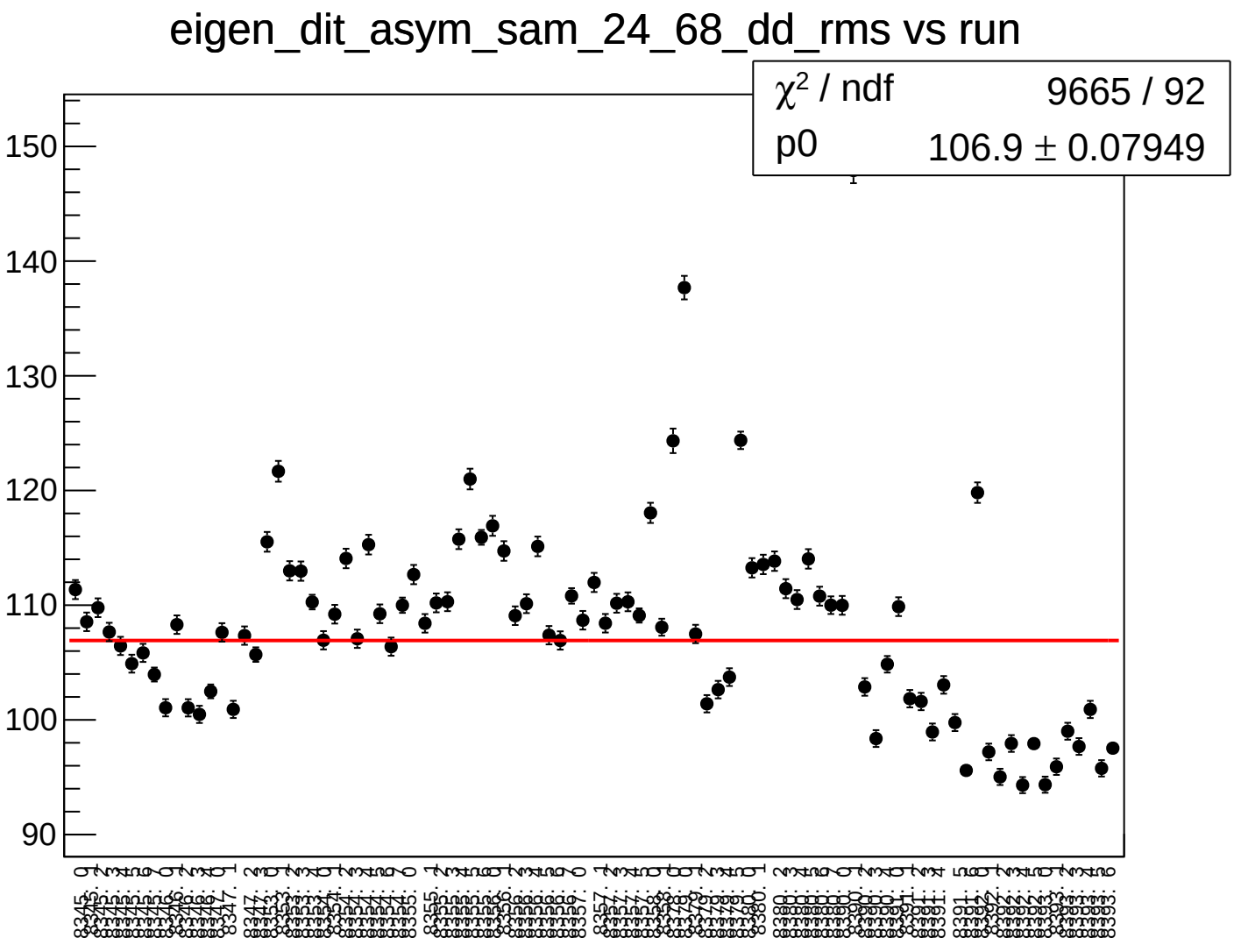

dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 9664 / 92
p0 106.9 ± 0.07949
150
140
130
120
110
100
90

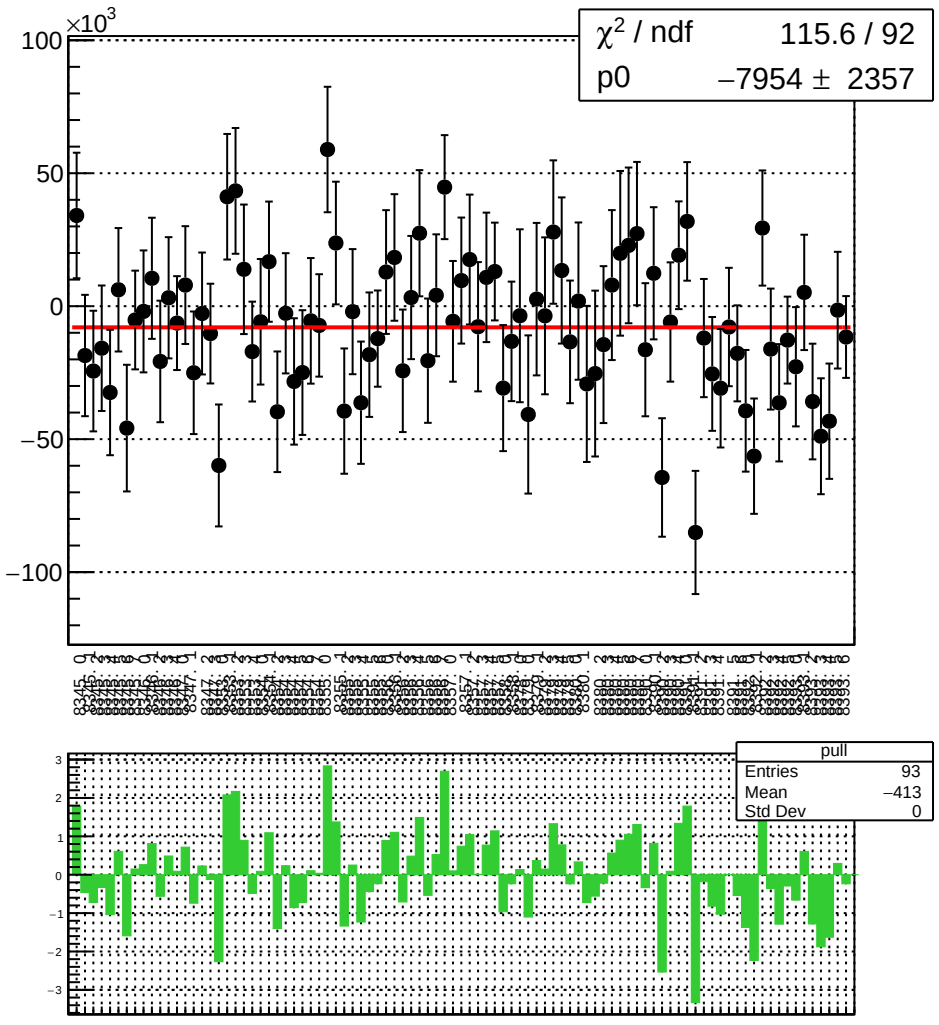

asym_sam_24_68_dd_dit_correction_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 115.6 / 92
p0 −7954 ± 2357
pull
Entries 93
Mean −413.1
Std Dev 0
3
2
1
0
−1
−2
−3

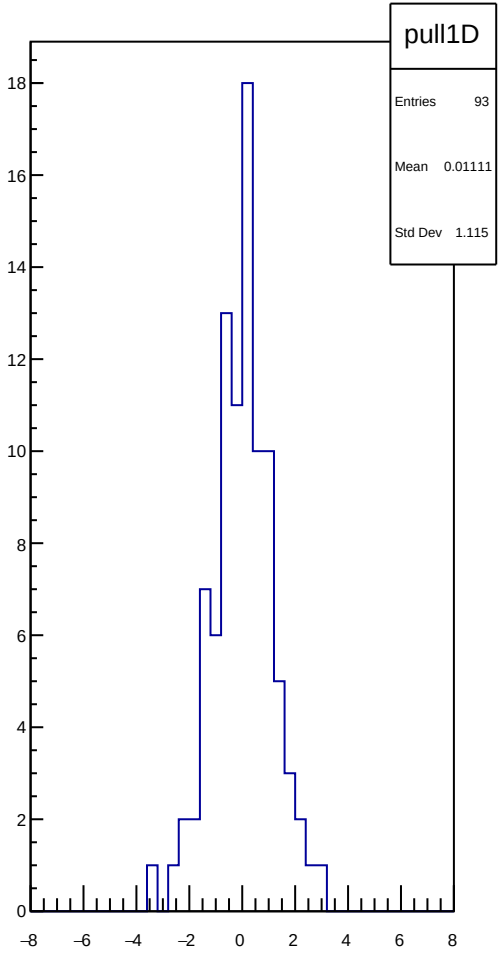

pull1D
Entries 93
Mean 0.01111
Std Dev 1.115
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

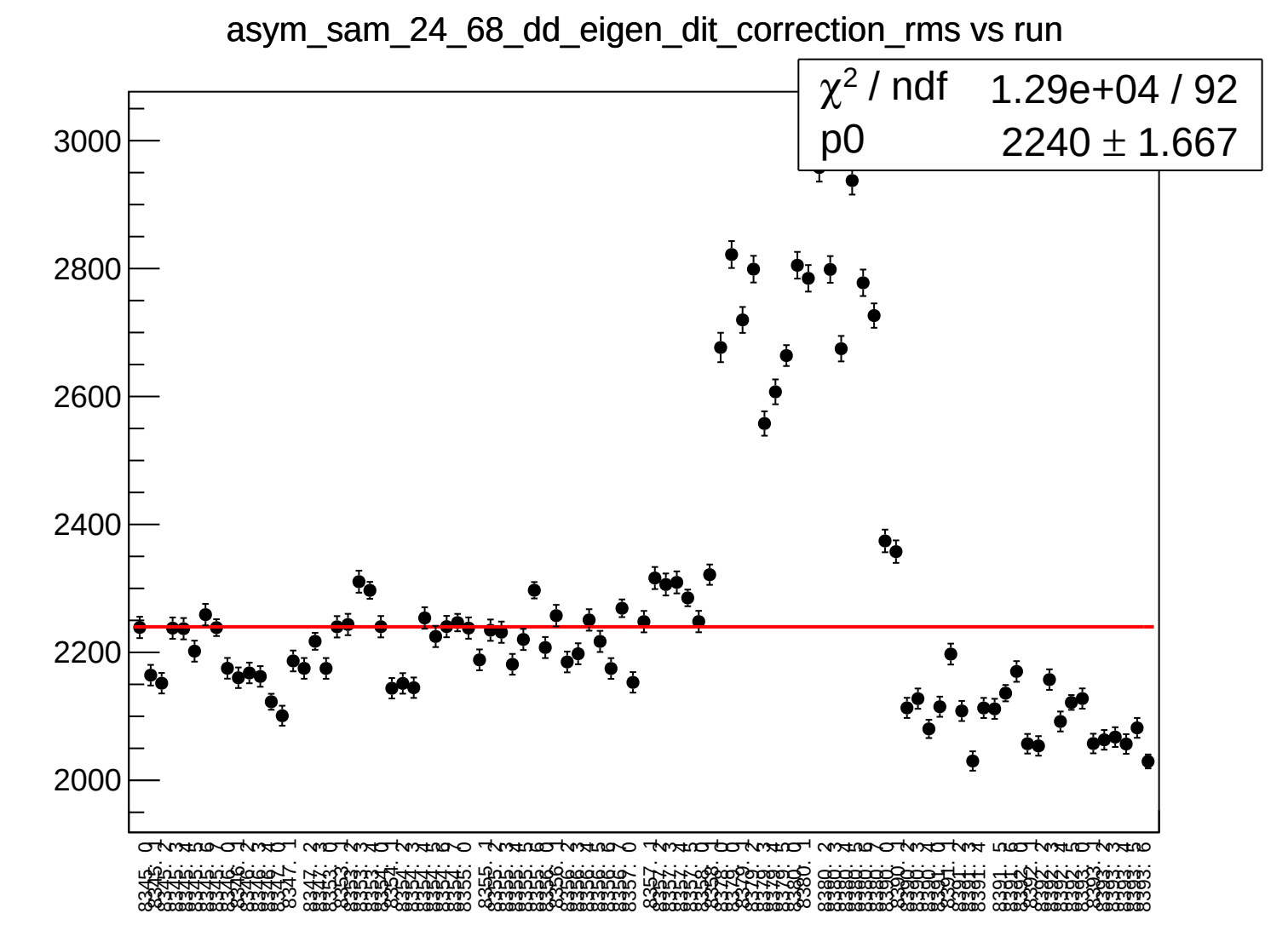

asym_sam_24_68_dd_dit_correction_rms vs run
χ² / ndf 1.29e+04 / 92
p0 2240 ± 1.667
3000
2800
2600
2400
2200
2000

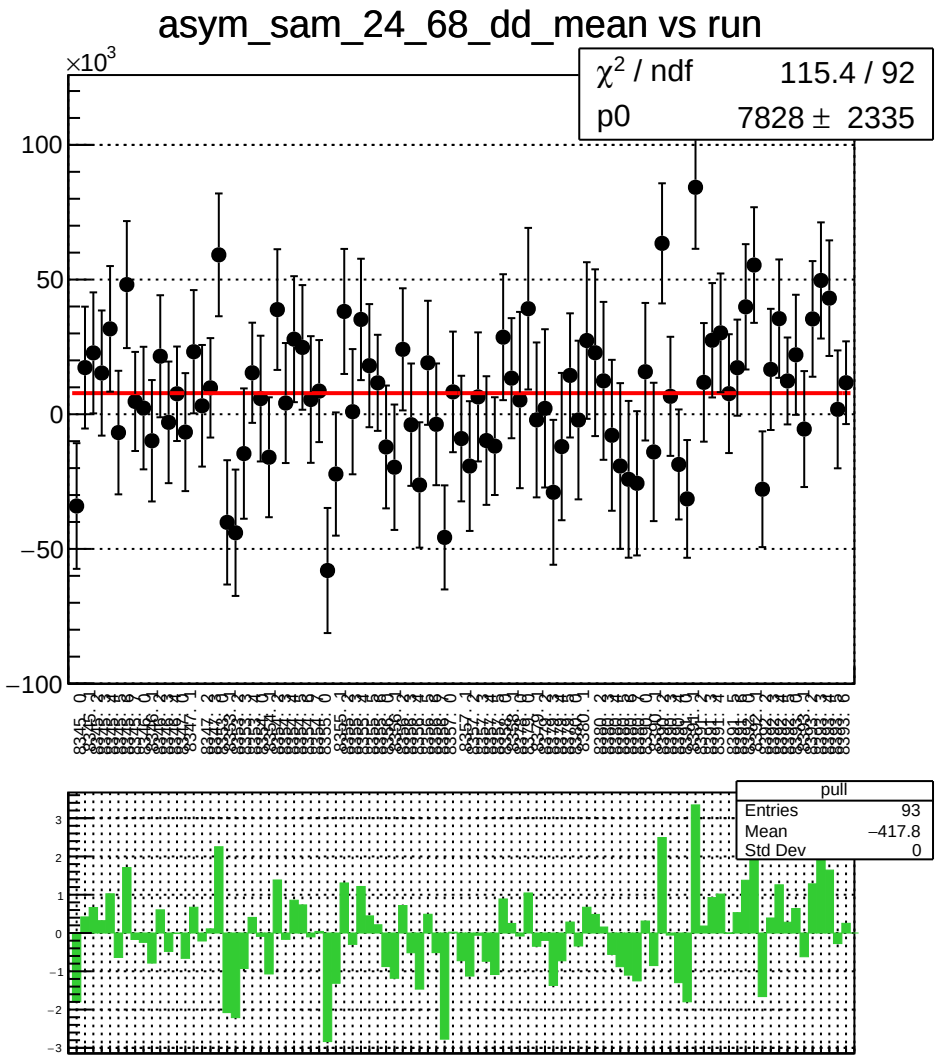

eigen_dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 87.29 / 92
p0 −99.21 ± 112.4
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 93
Mean 60.73
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean −0.01066
Std Dev 0.9688
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

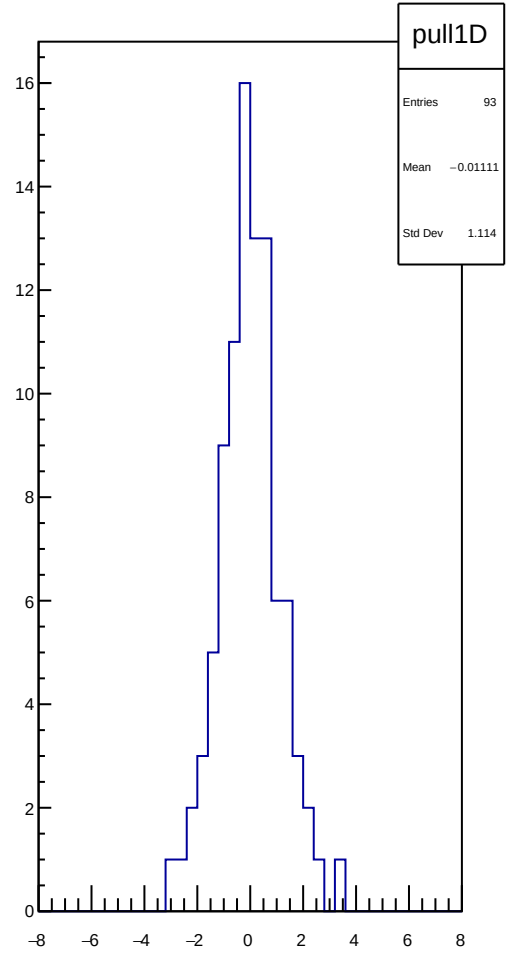

eigen_dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 9665 / 92
p0 106.9 ± 0.07949
150
140
130
120
110
100
90

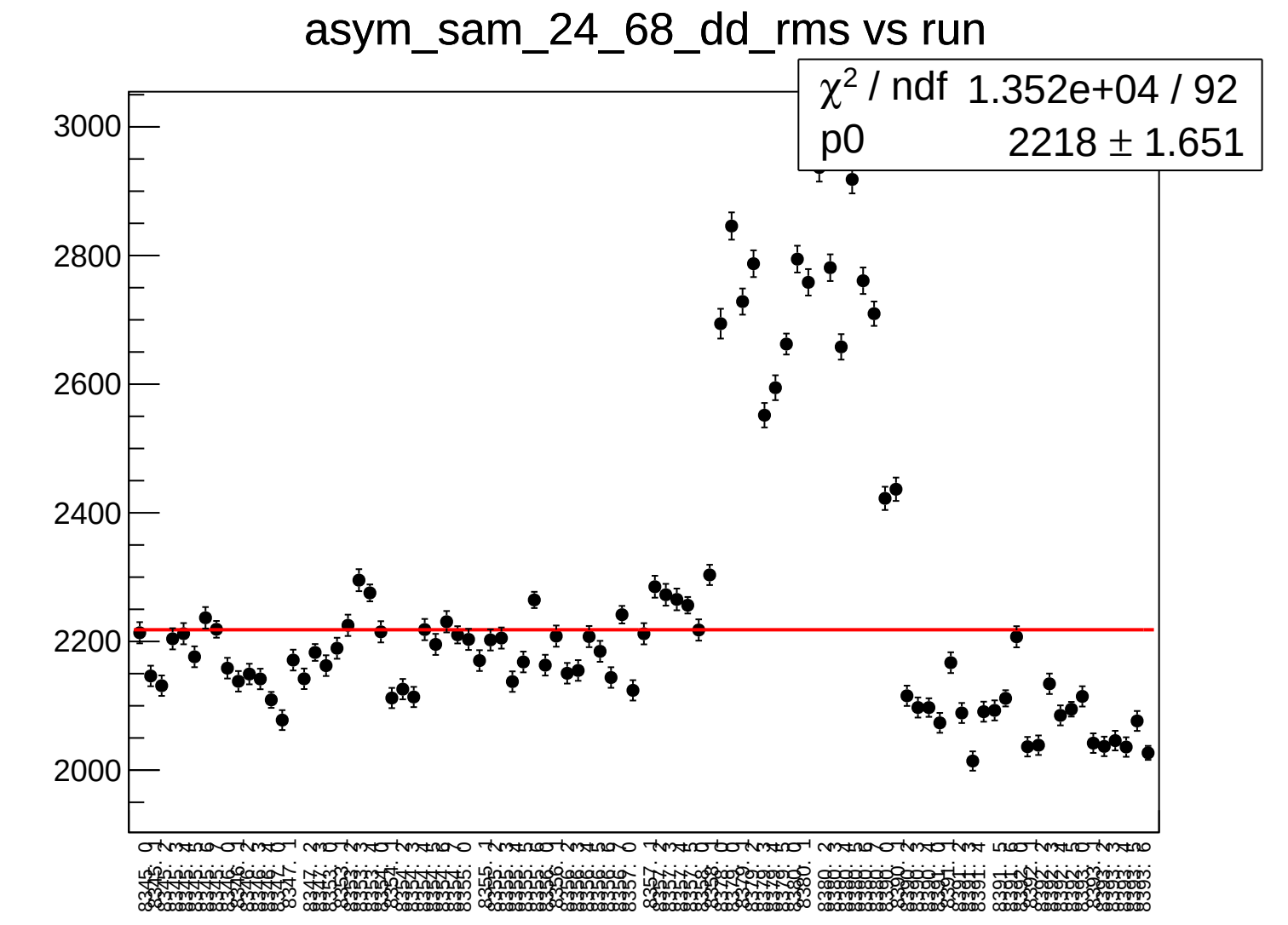

asym_sam_24_68_dd_eigen_dit_correction_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 115.6 / 92
p0 −7954 ± 2357
pull
Entries 93
Mean −413
Std Dev 0
3
2
1
0
−1
−2
−3

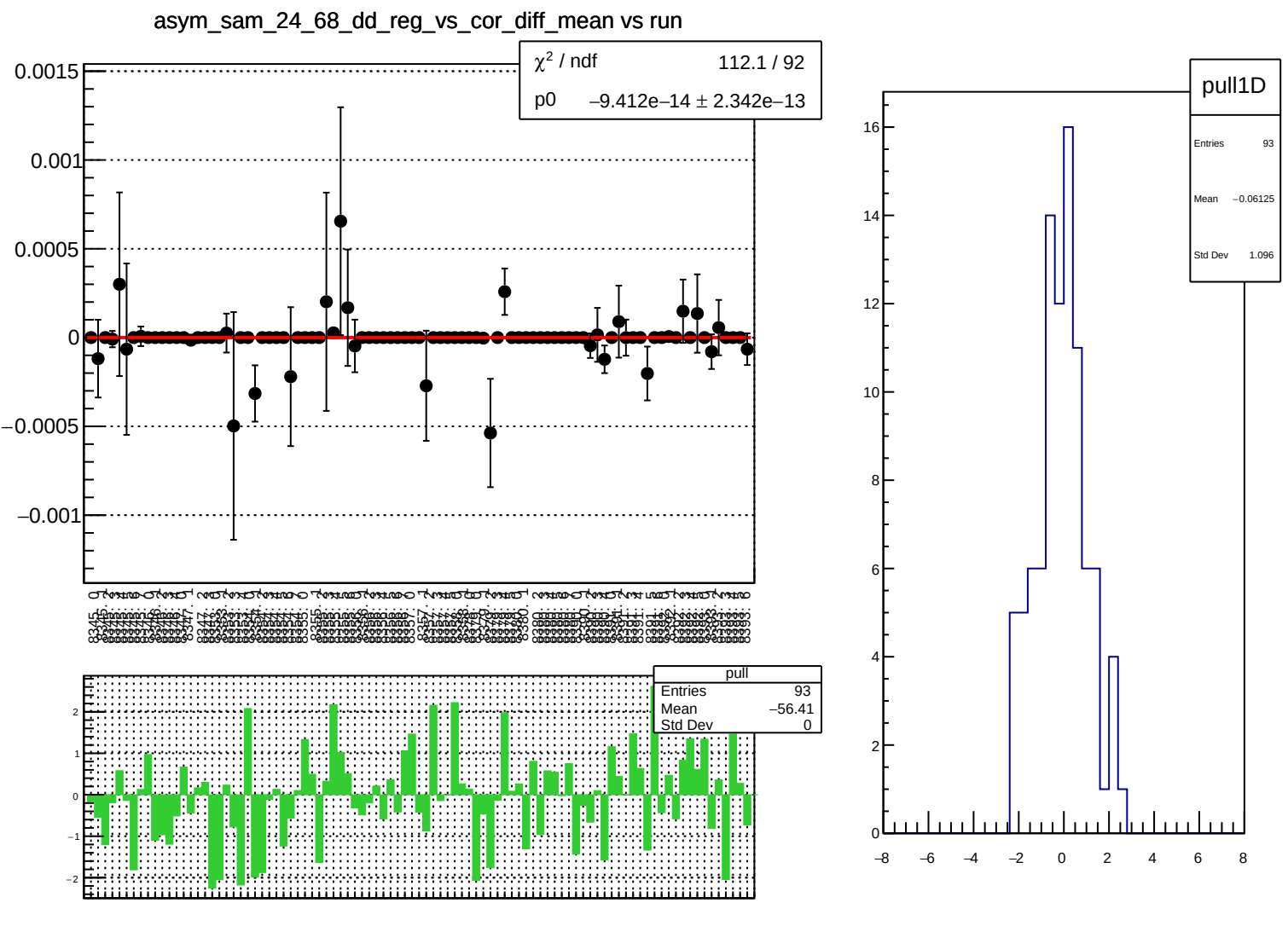

pull1D
Entries 93
Mean 0.01111
Std Dev 1.115
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

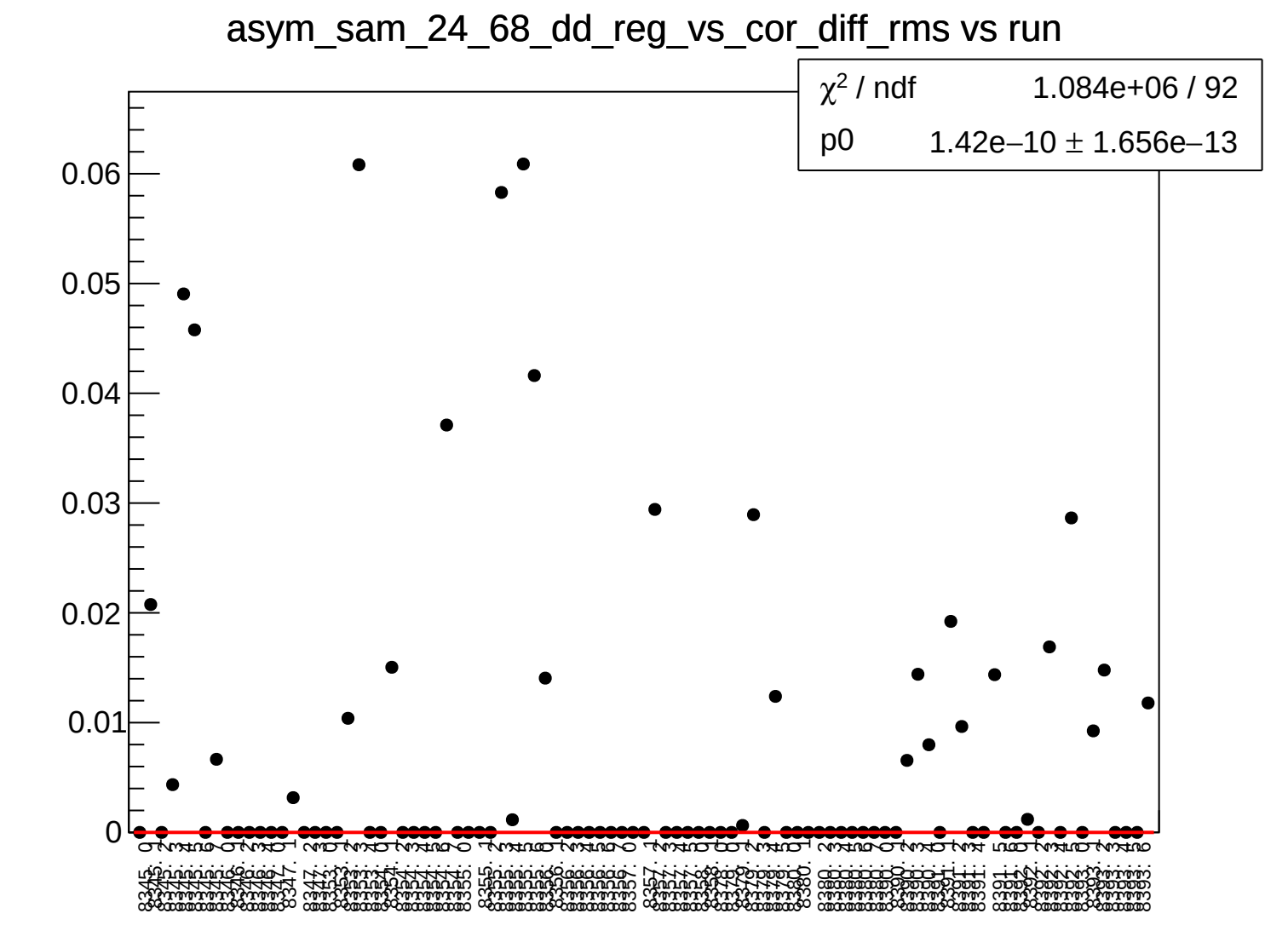

asym_sam_24_68_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.29e+04 / 92
p0 2240 ± 1.667
3000
2800
2600
2400
2200
2000

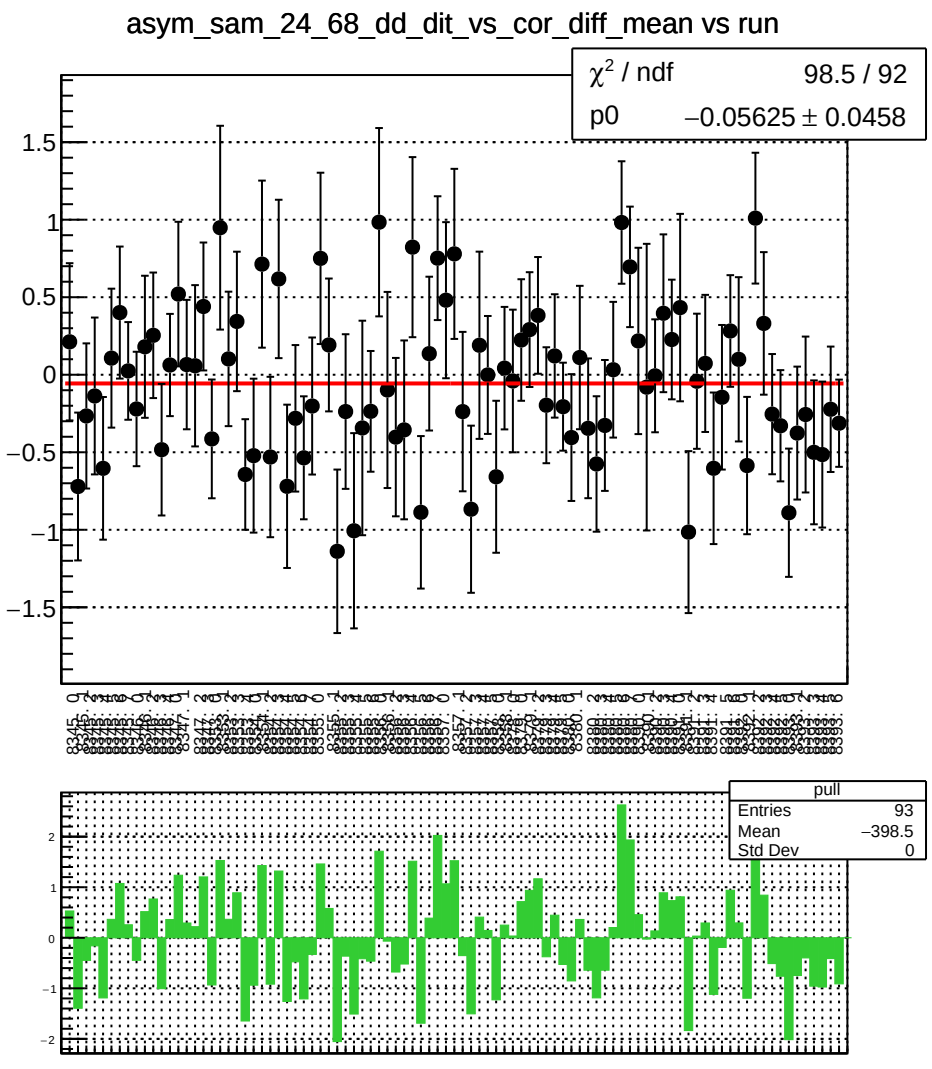

asym_sam_24_68_dd_mean vs run
×10^3
χ^2 / ndf 115.4 / 92
p0 7828 ± 2335
100
50
0
−50
−100
pull
Entries 93
Mean −417.8
Std Dev 0
3
2
1
0
−1
−2
−3

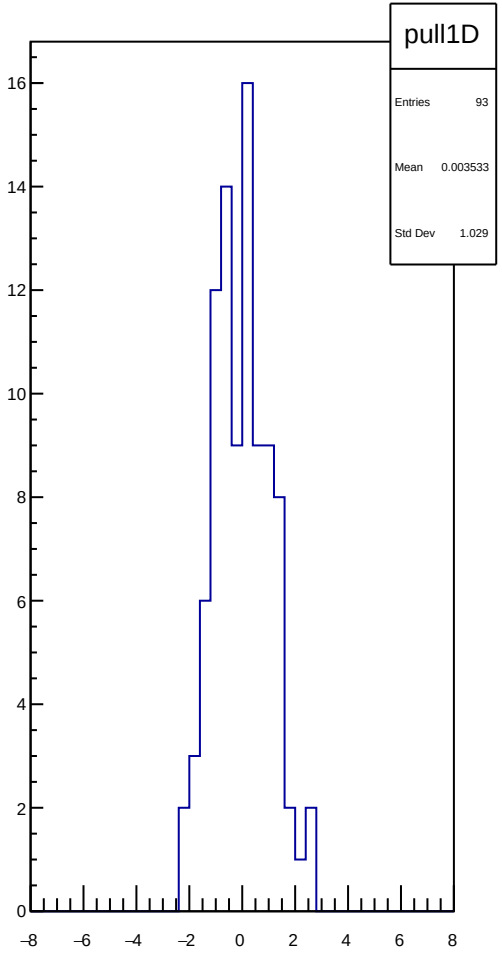

pull1D
Entries 93
Mean −0.01111
Std Dev 1.114
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

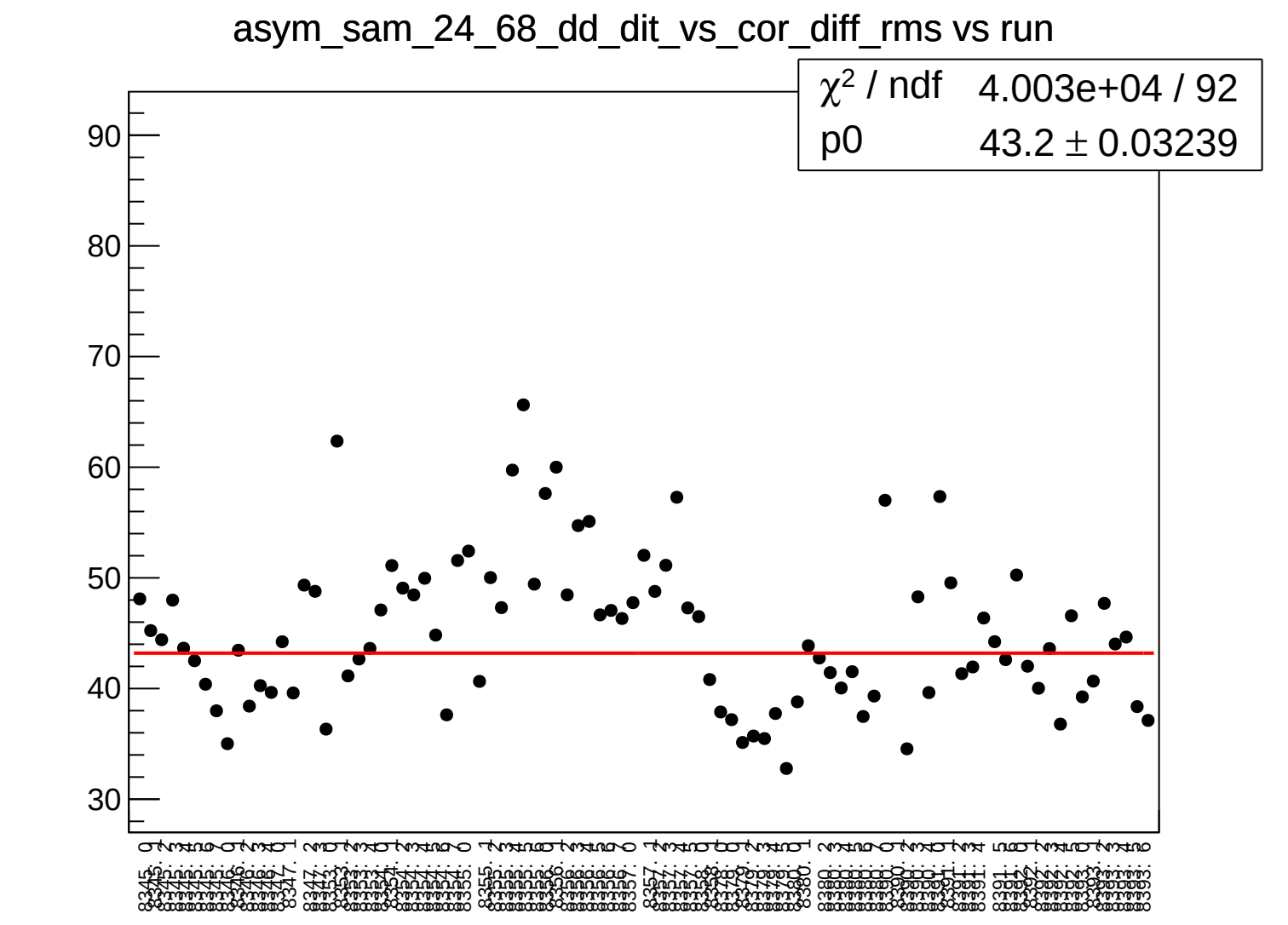

asym_sam_24_68_dd_rms vs run
χ² / ndf 1.352e+04 / 92
p0 2218 ± 1.651
3000
2800
2600
2400
2200
2000

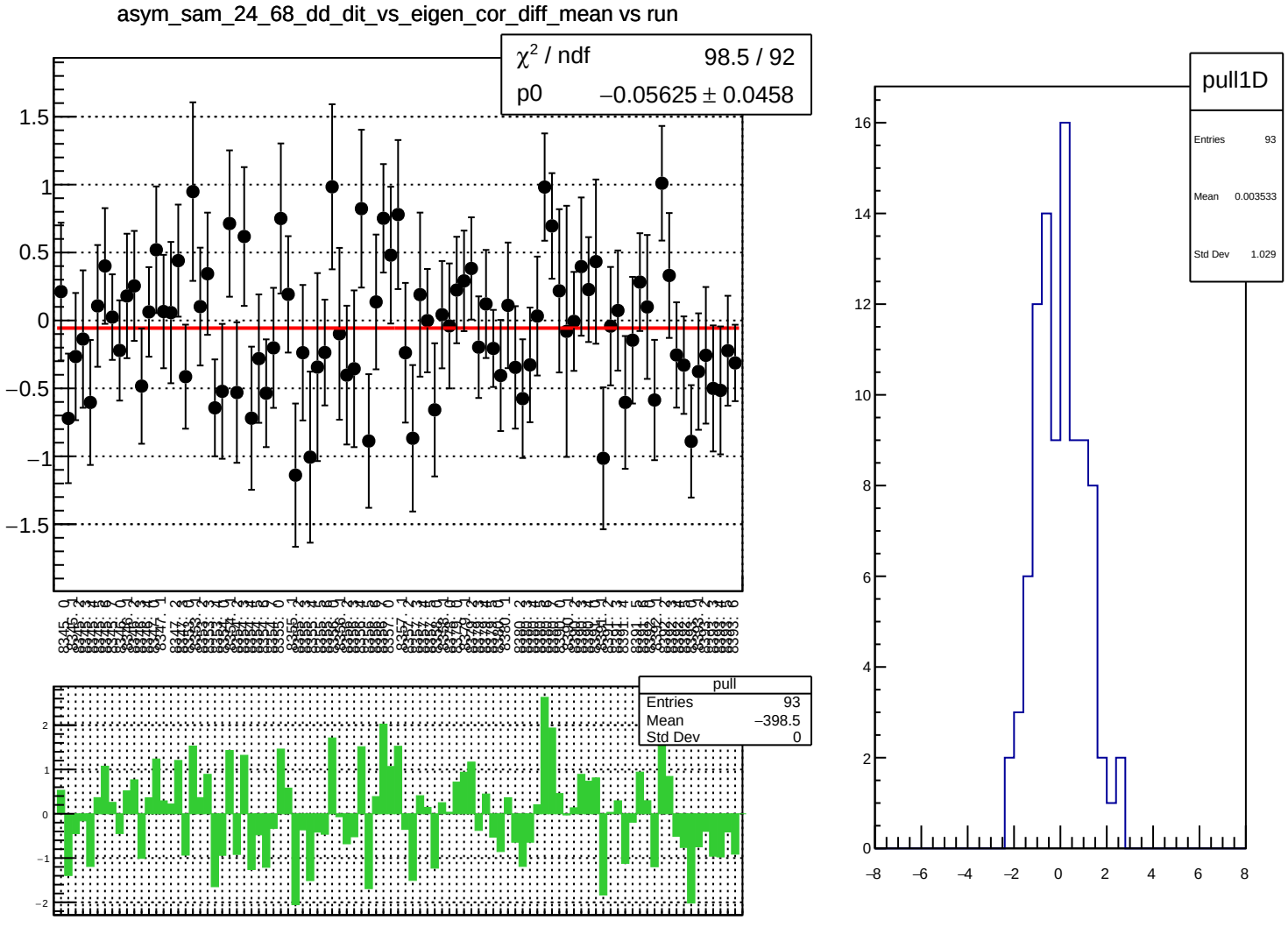

asym_sam_24_68_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 112.1 / 92
p0 −9.412e−14 ± 2.342e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 93
Mean −56.41
Std Dev 0
pull1D
Entries 93
Mean −0.06125
Std Dev 1.096

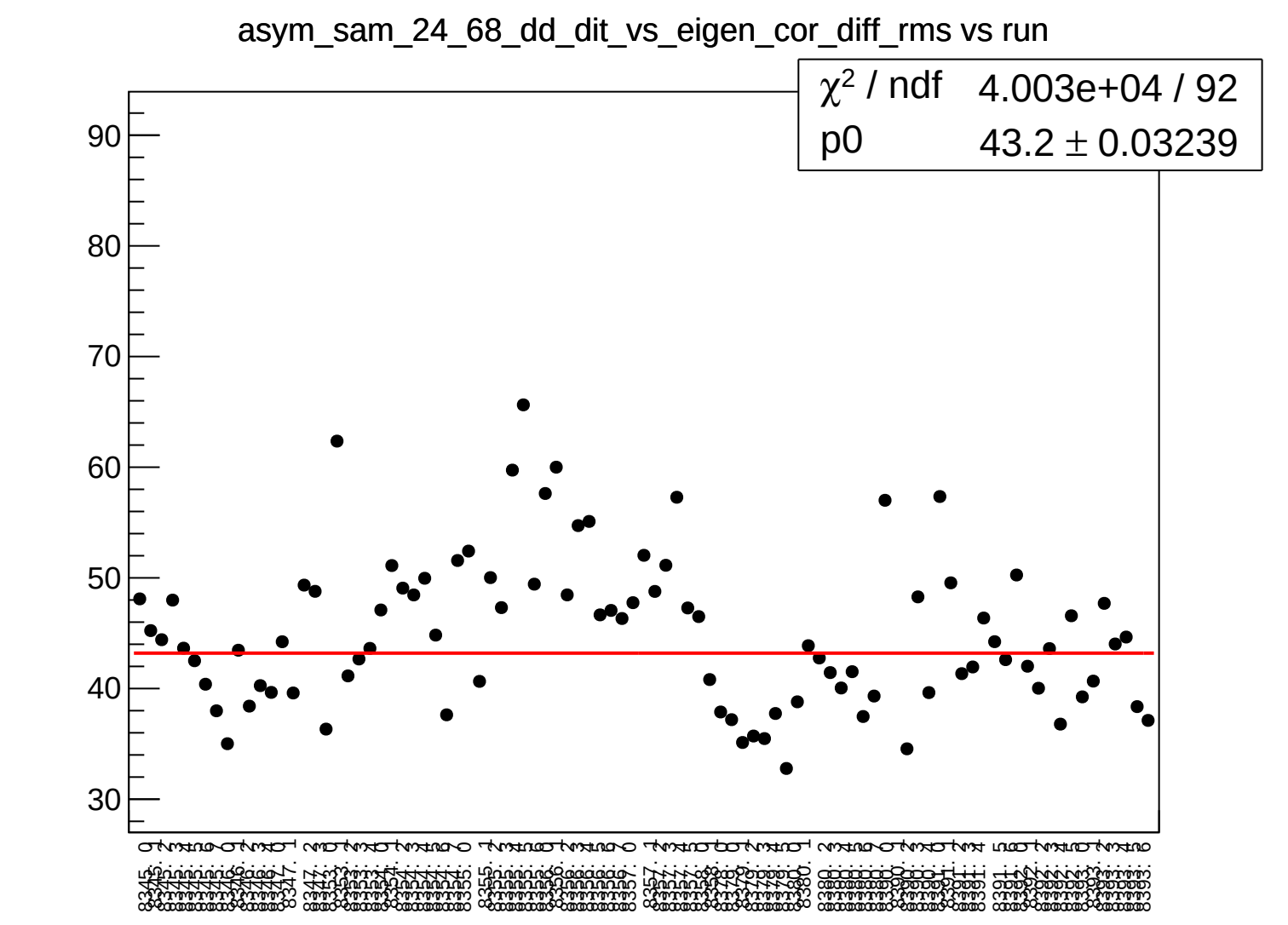

asym_sam_24_68_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.084e+06 / 92
p0 1.42e−10 ± 1.656e−13
0.06
0.05
0.04
0.03
0.02
0.01
0

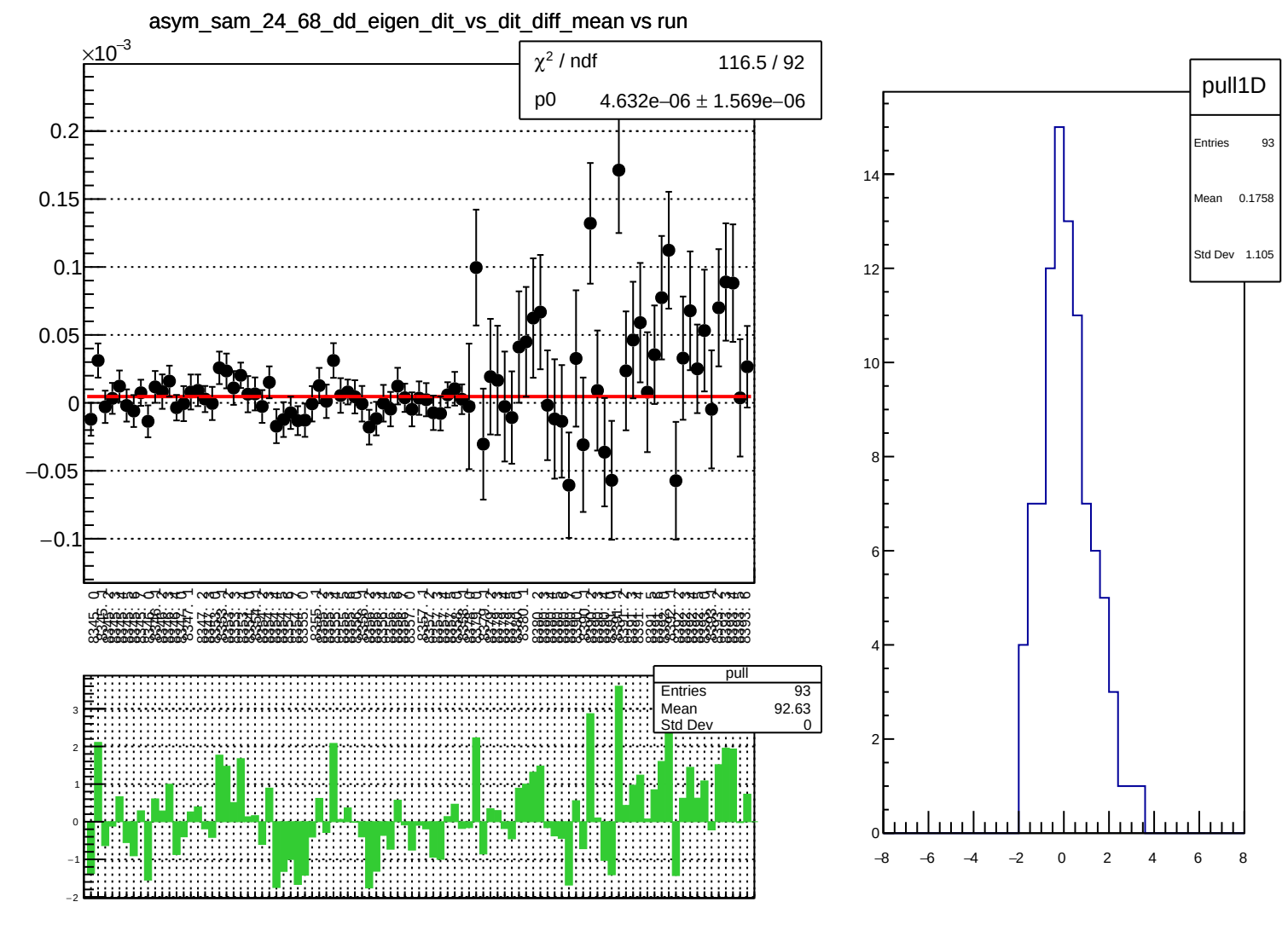

asym_sam_24_68_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 98.5 / 92
p0 −0.05625 ± 0.0458
pull
Entries 93
Mean −398.5
Std Dev 0

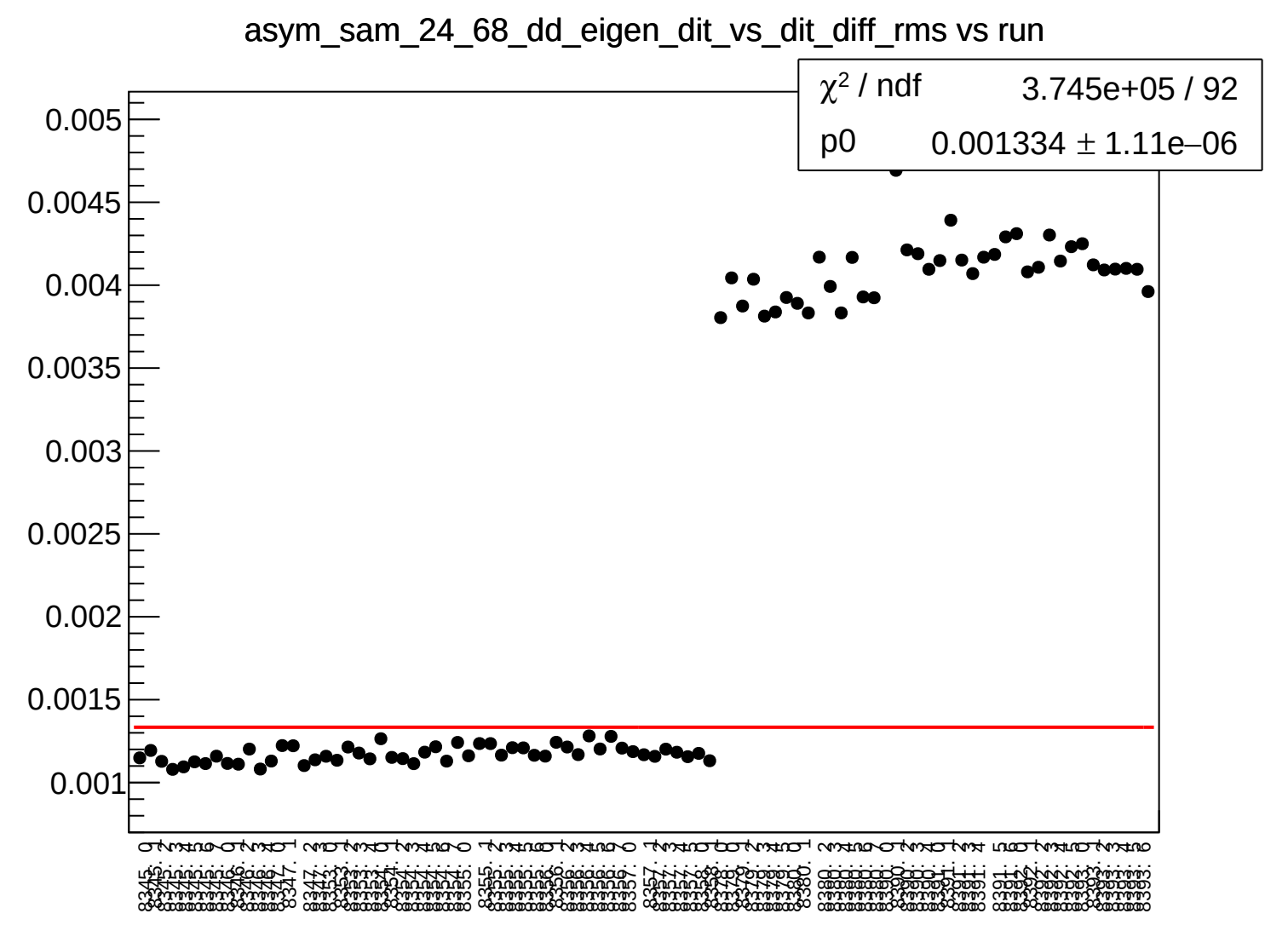

pull1D
Entries 93
Mean 0.003533
Std Dev 1.029

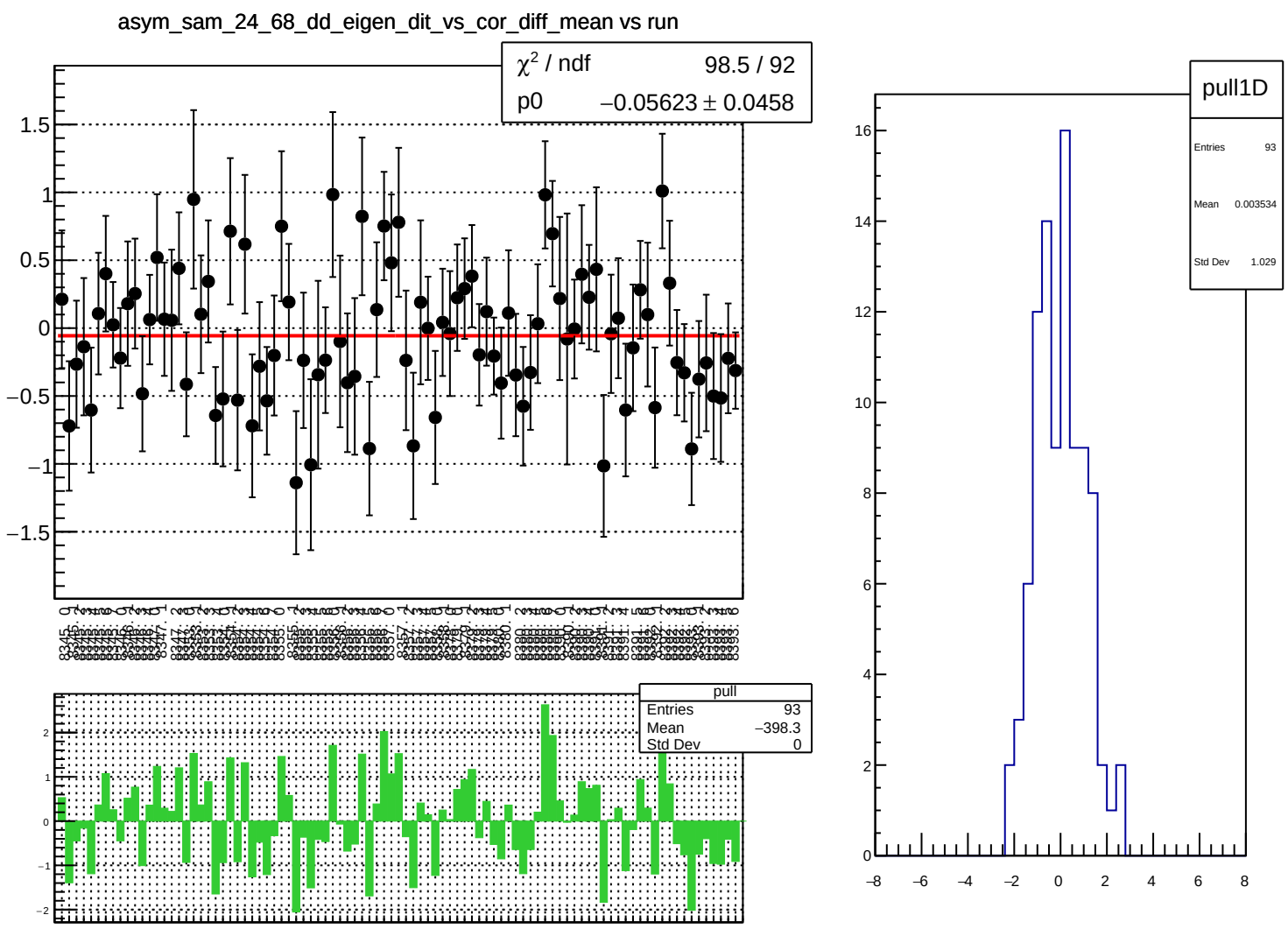

asym_sam_24_68_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.003e+04 / 92
p0 43.2 ± 0.03239
90
80
70
60
50
40
30

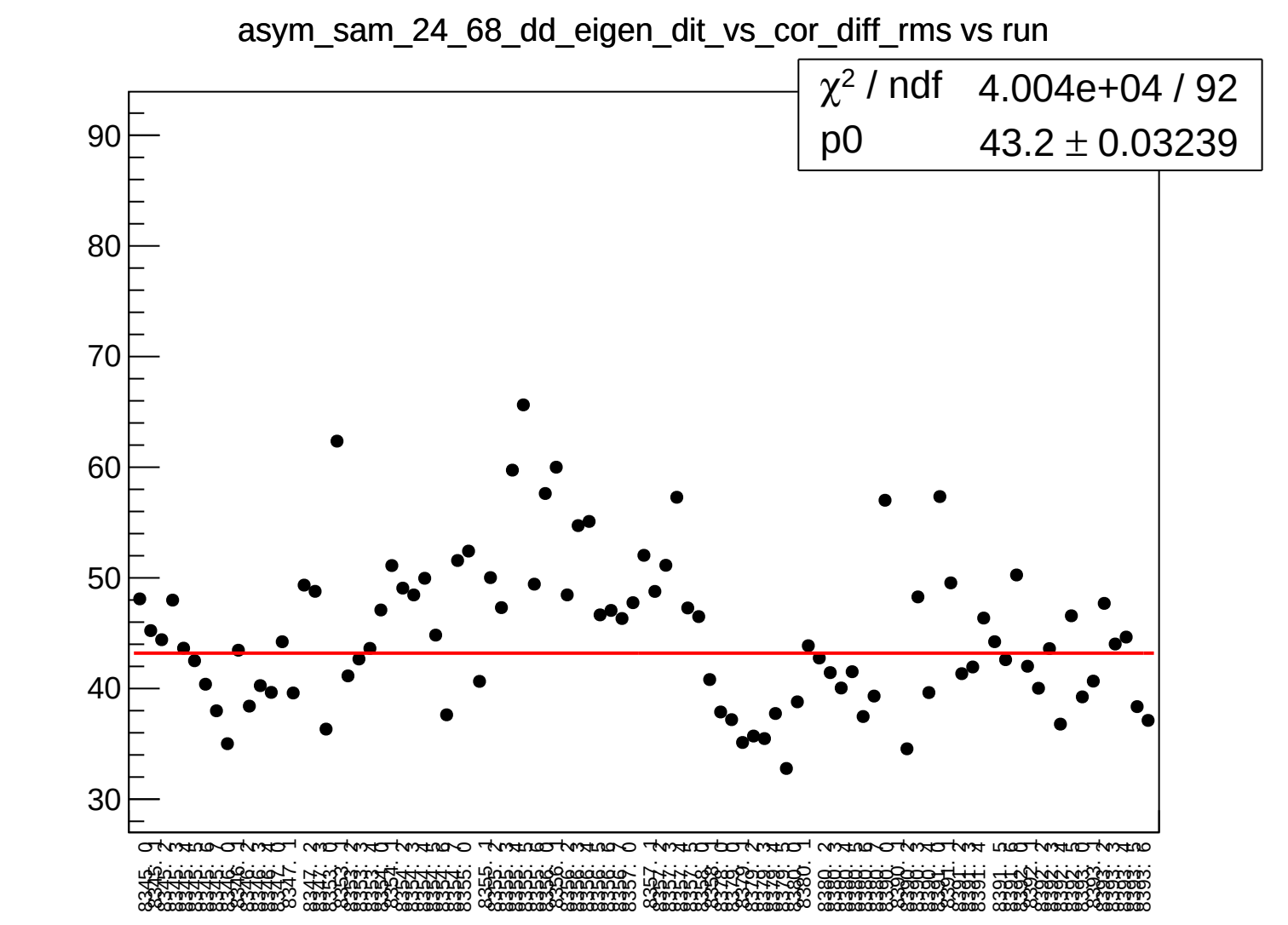

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.5 / 92
p0 −0.05625 ± 0.0458
pull
Entries 93
Mean −398.5
Std Dev 0
pull1D
Entries 93
Mean 0.003533
Std Dev 1.029


asym_sam_24_68_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.003e+04 / 92
p0 43.2 ± 0.03239
90
80
70
60
50
40
30

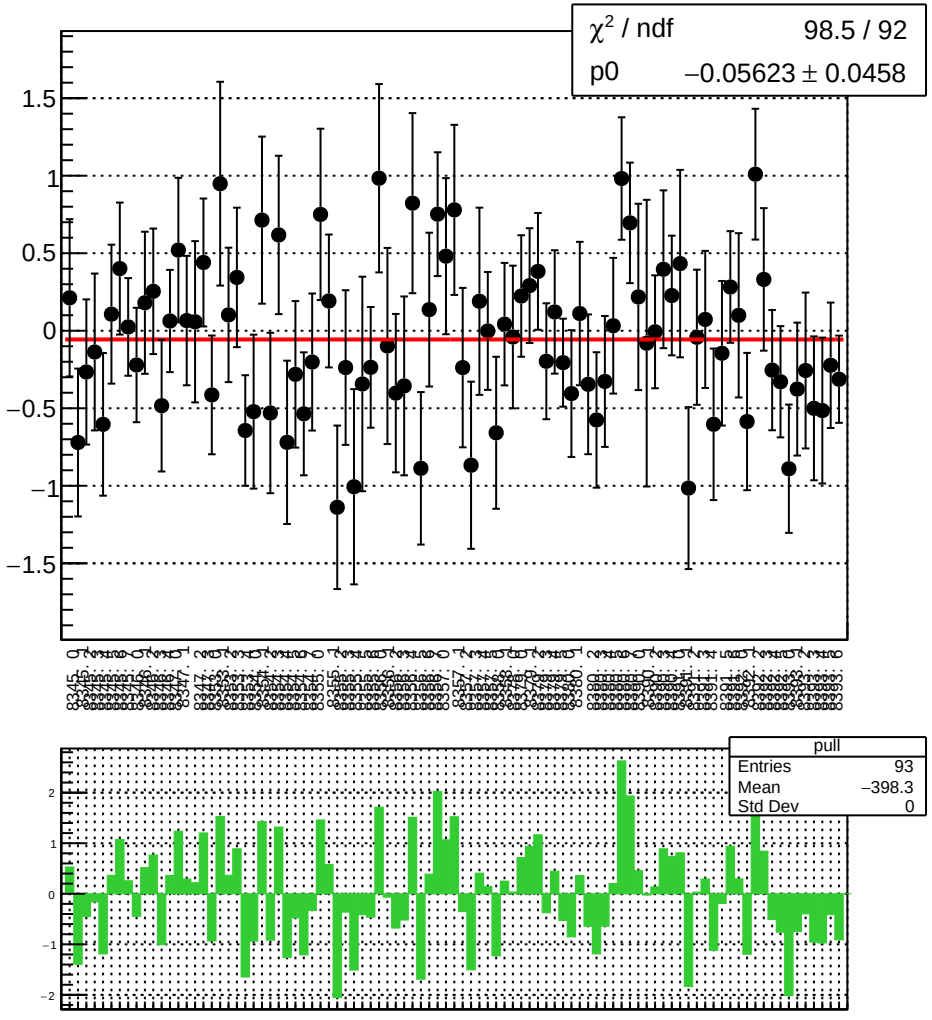

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 116.5 / 92
p0 4.632e−06 ± 1.569e−06
0.2
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 93
Mean 92.63
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.1758
Std Dev 1.105
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

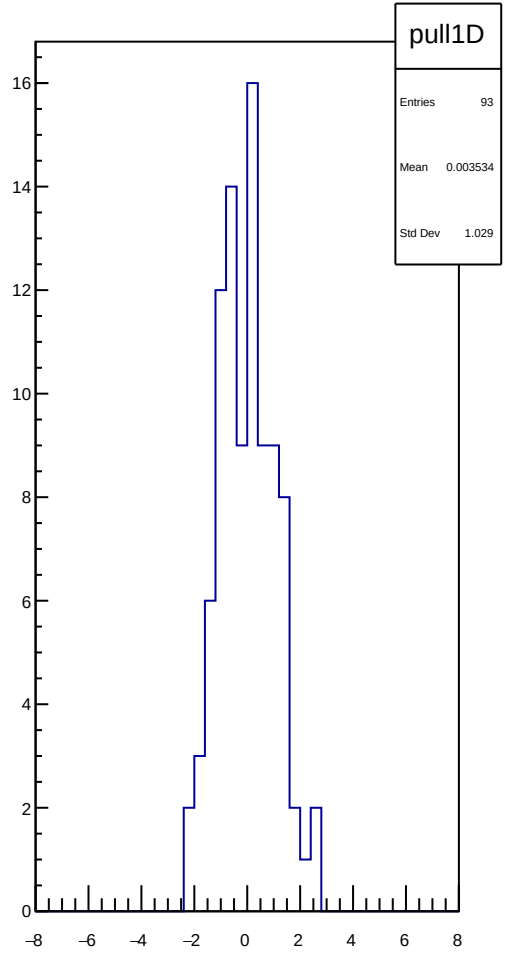

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.745e+05 / 92
p0 0.001334 ± 1.11e−06
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001

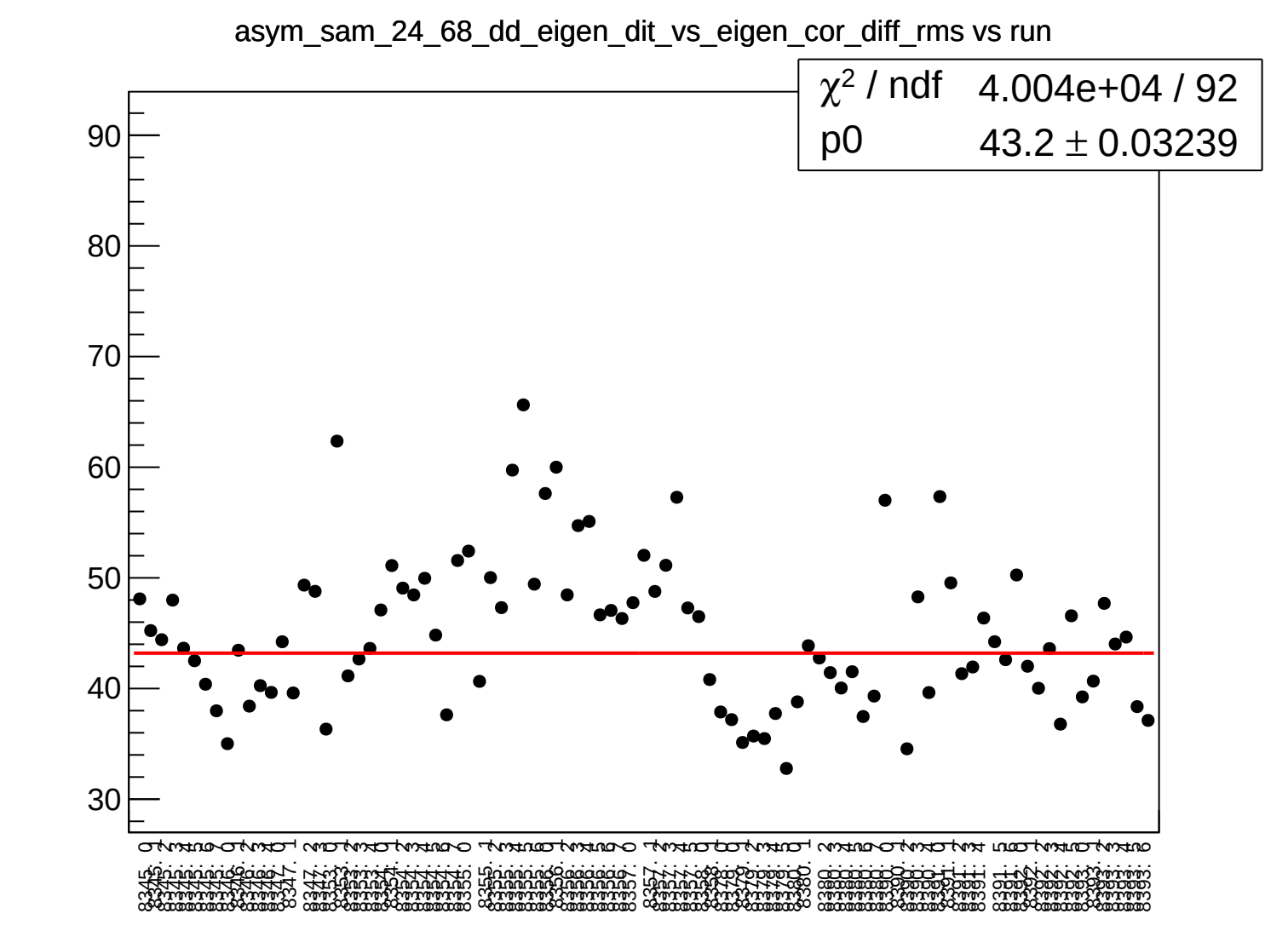

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_mean vs run
χ^2 / ndf 98.5 / 92
p0 −0.05623 ± 0.0458
pull
Entries 93
Mean −398.3
Std Dev 0
pull1D
Entries 93
Mean 0.003534
Std Dev 1.029

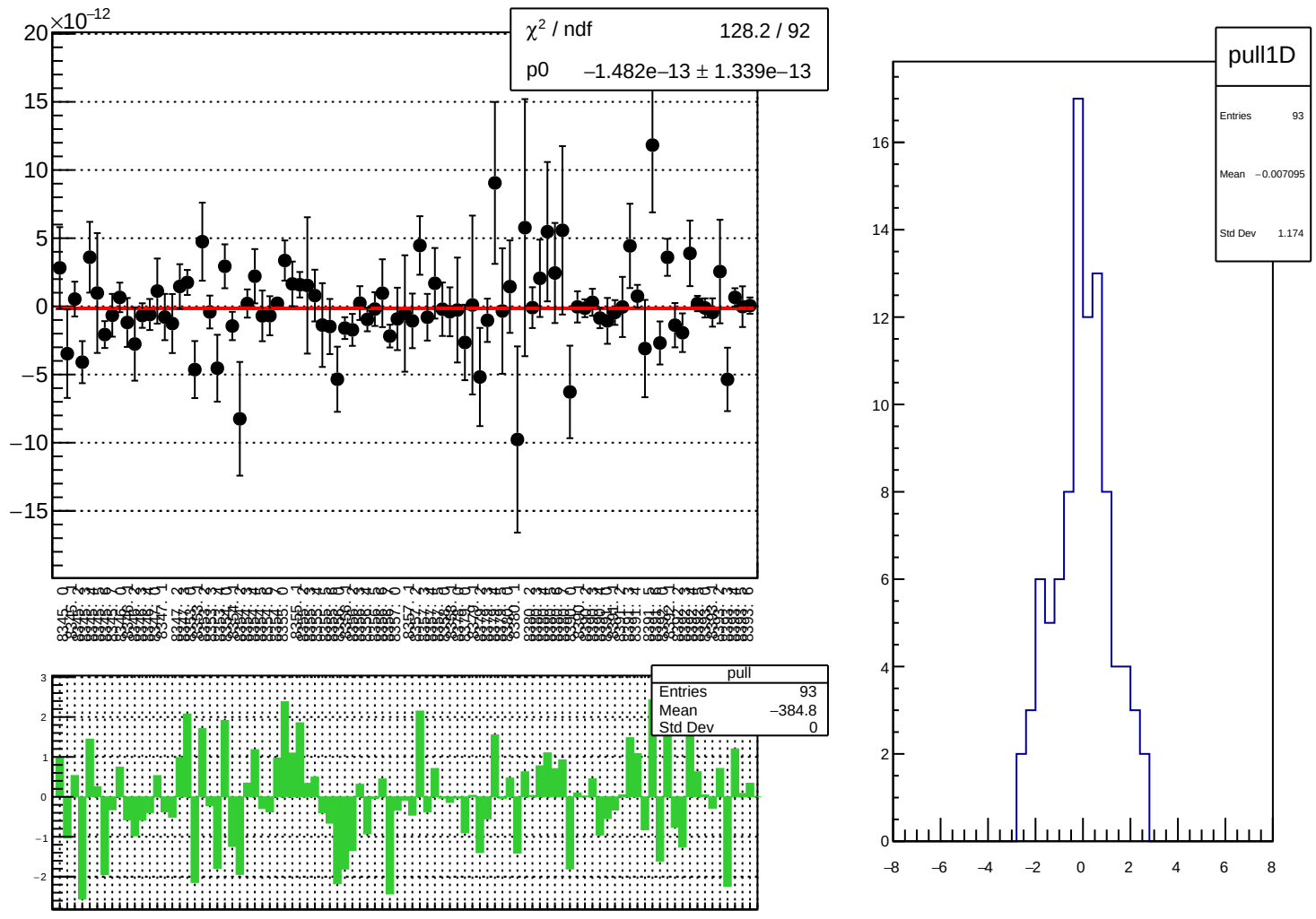

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.004e+04 / 92
p0 43.2 ± 0.03239
90
80
70
60
50
40
30

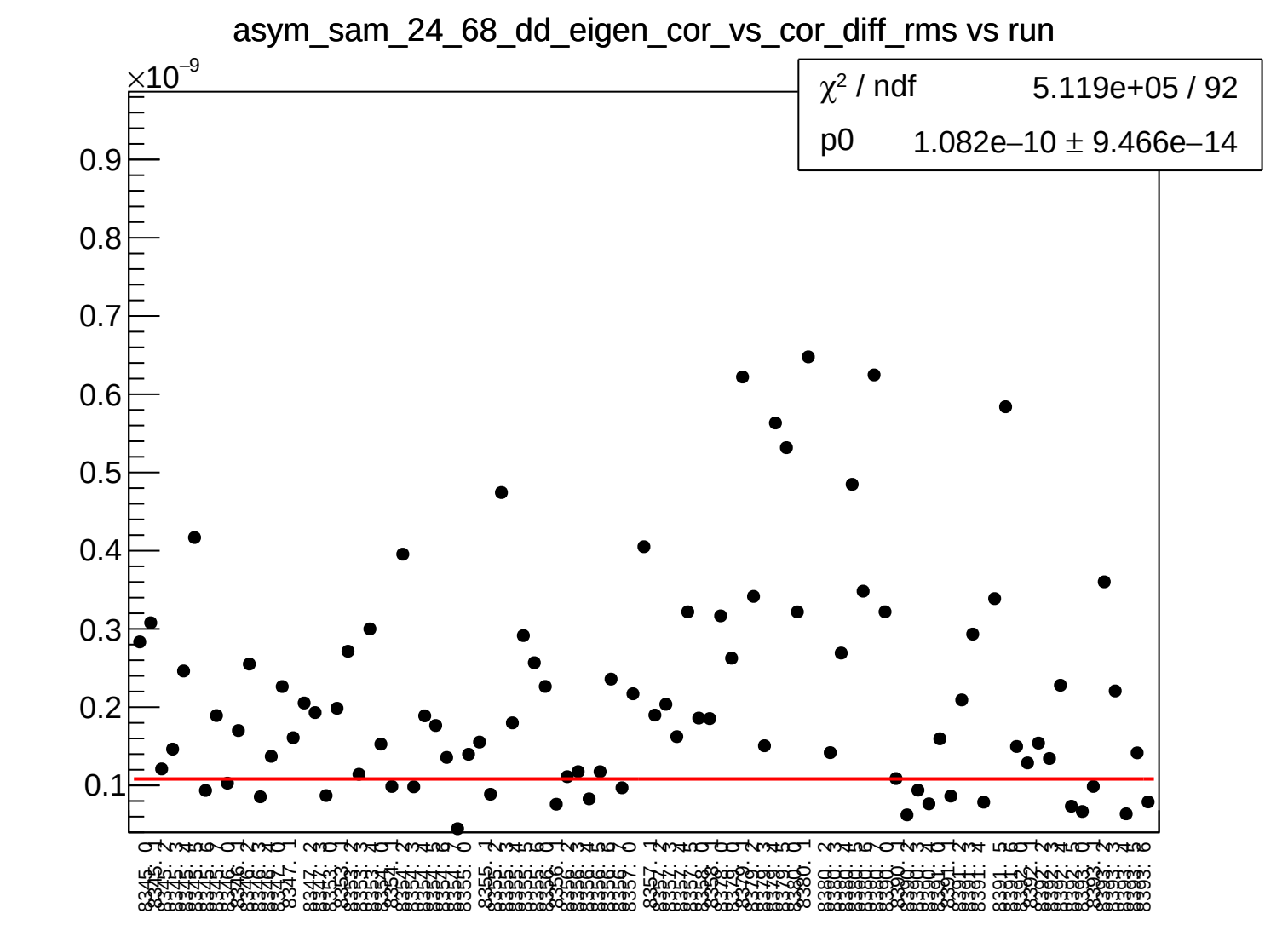
asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

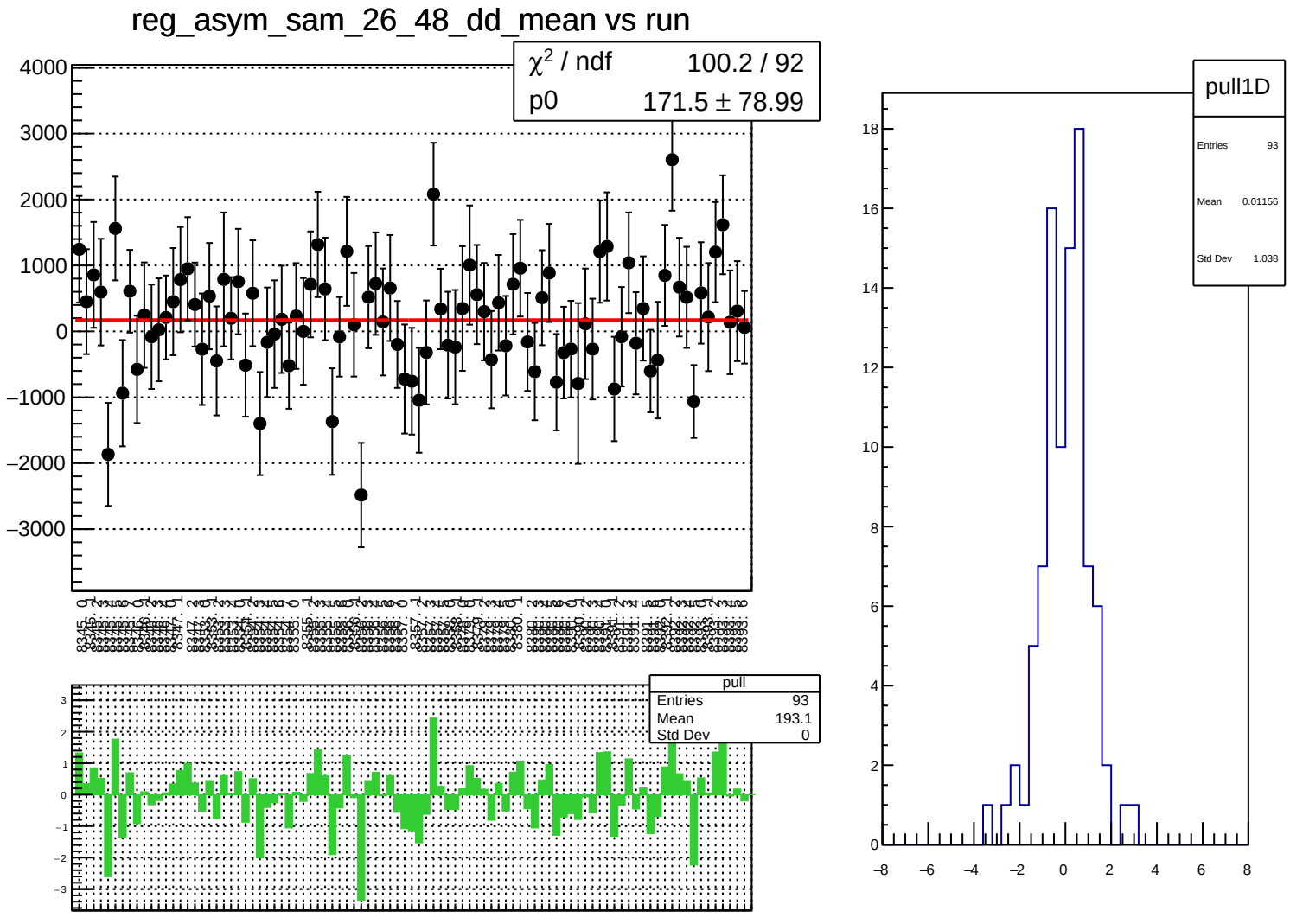


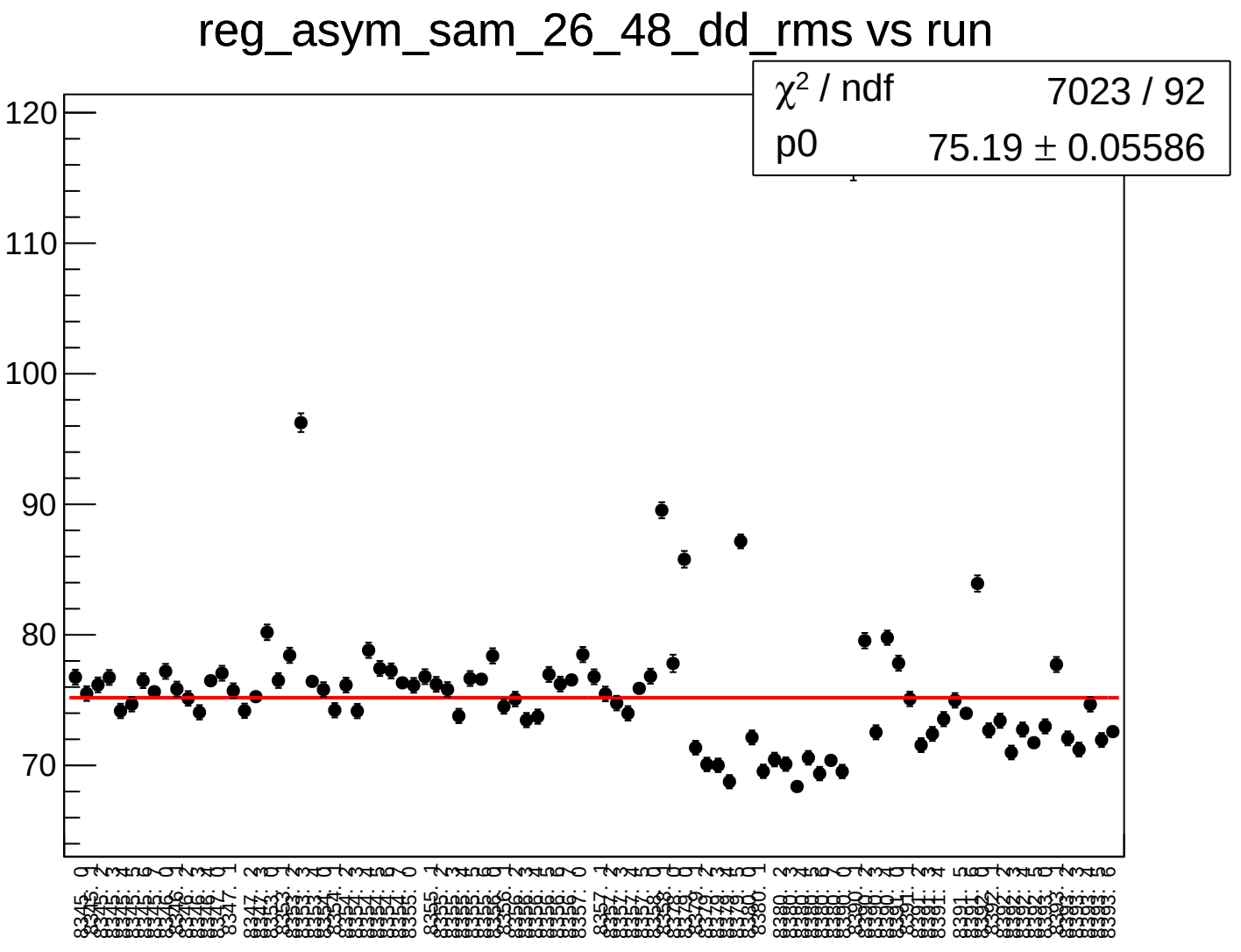


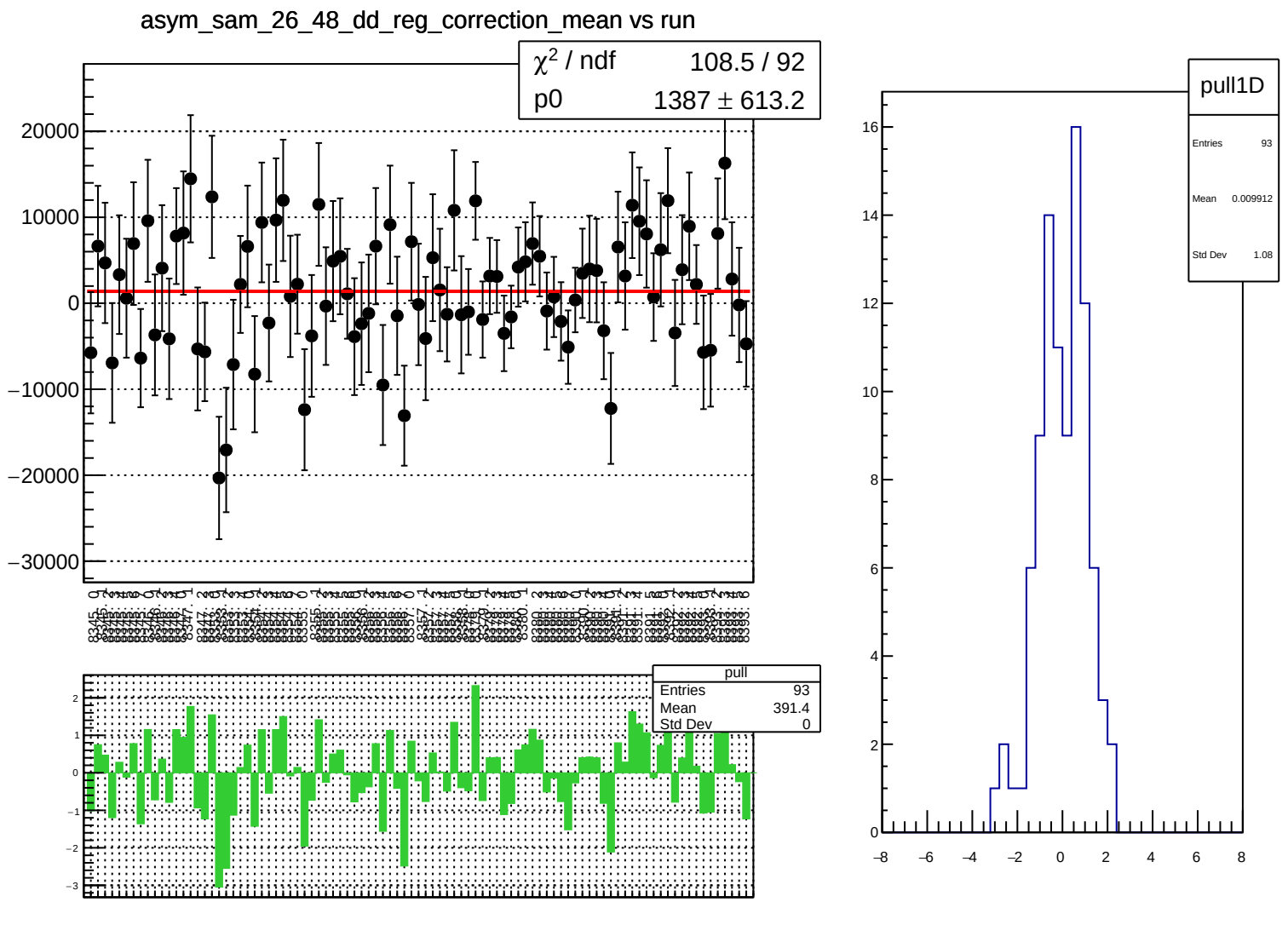

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.004e+04 / 92
p0 43.2 ± 0.03239
90
80
70
60
50
40
30

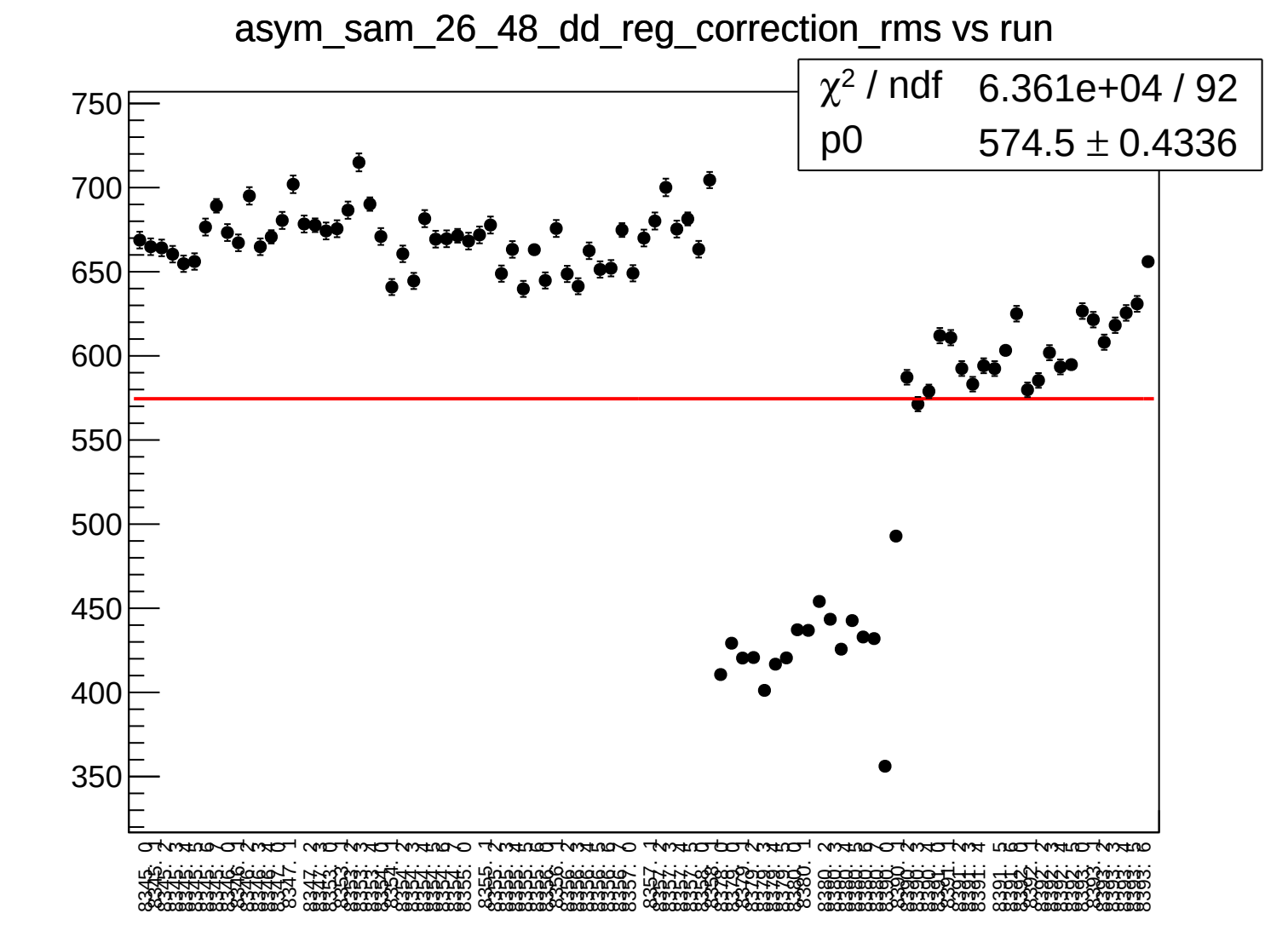

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 128.2 / 92
p0 −1.482e−13 ± 1.339e−13
pull
Entries 93
Mean −384.8
Std Dev 0
pull1D
Entries 93
Mean −0.007095
Std Dev 1.174

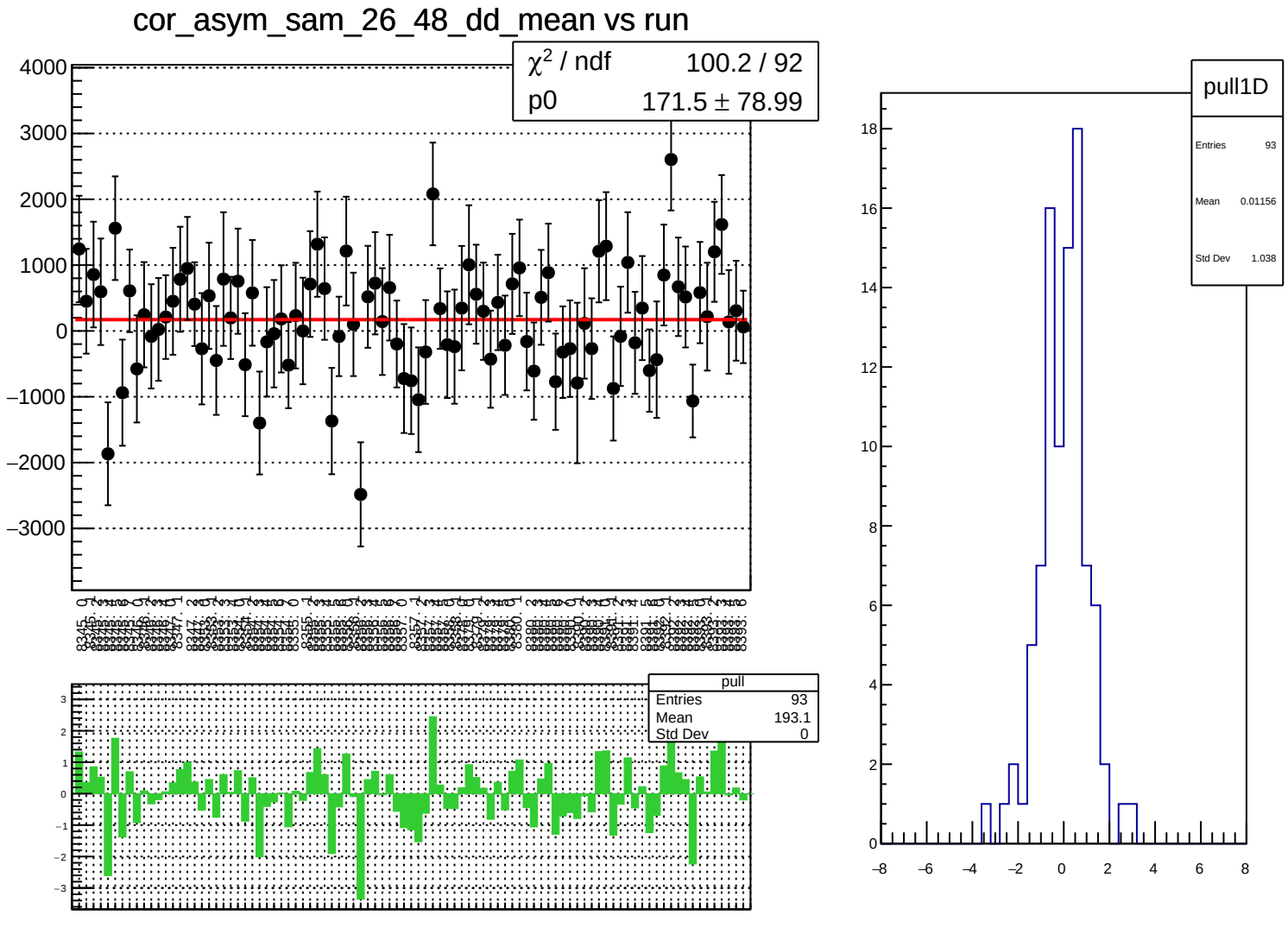

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.119e+05 / 92
p0 1.082e−10 ± 9.466e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

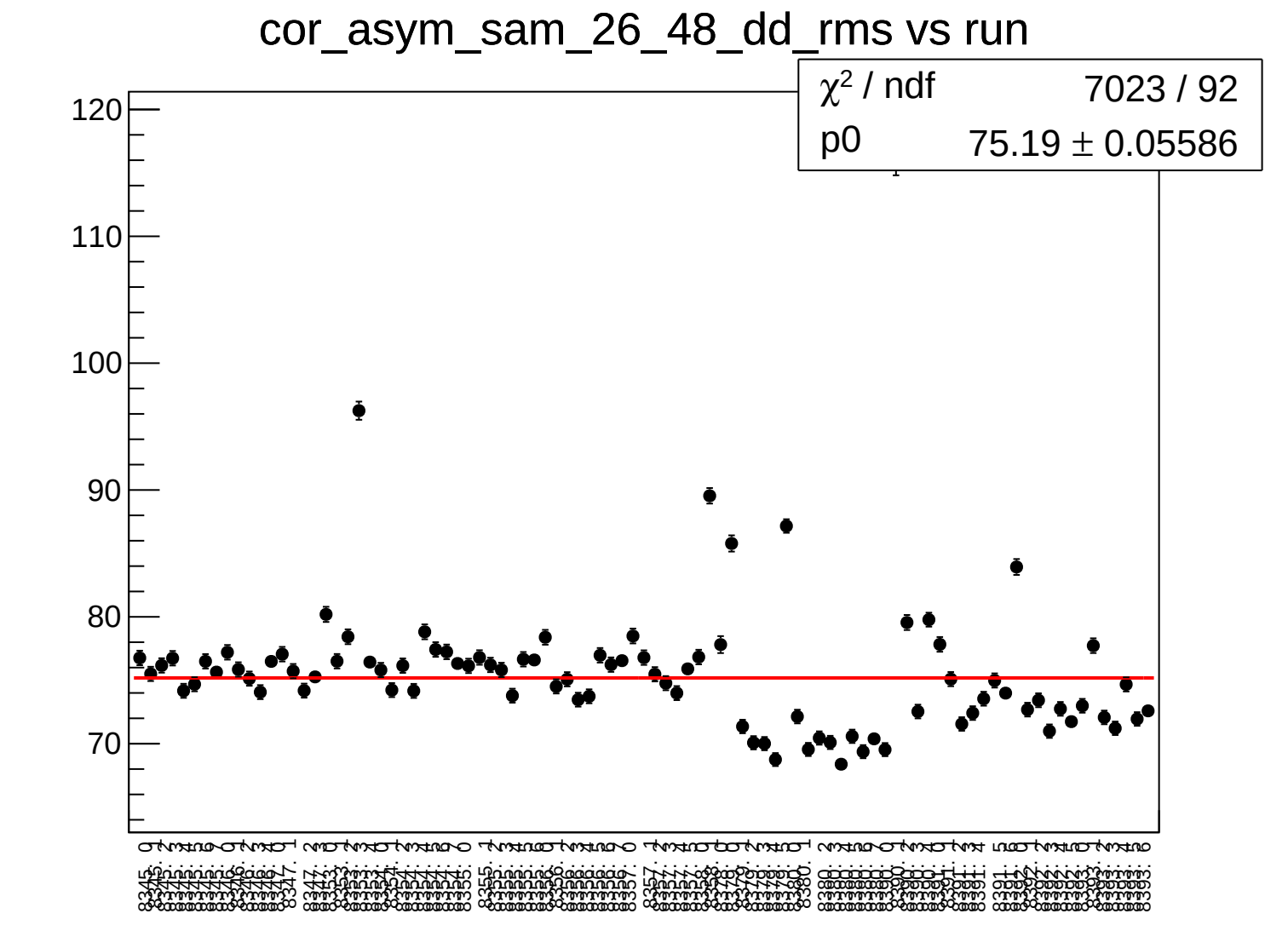

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 100.2 / 92
p0 171.5 ± 78.99
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean 193.1
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.01156
Std Dev 1.038
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

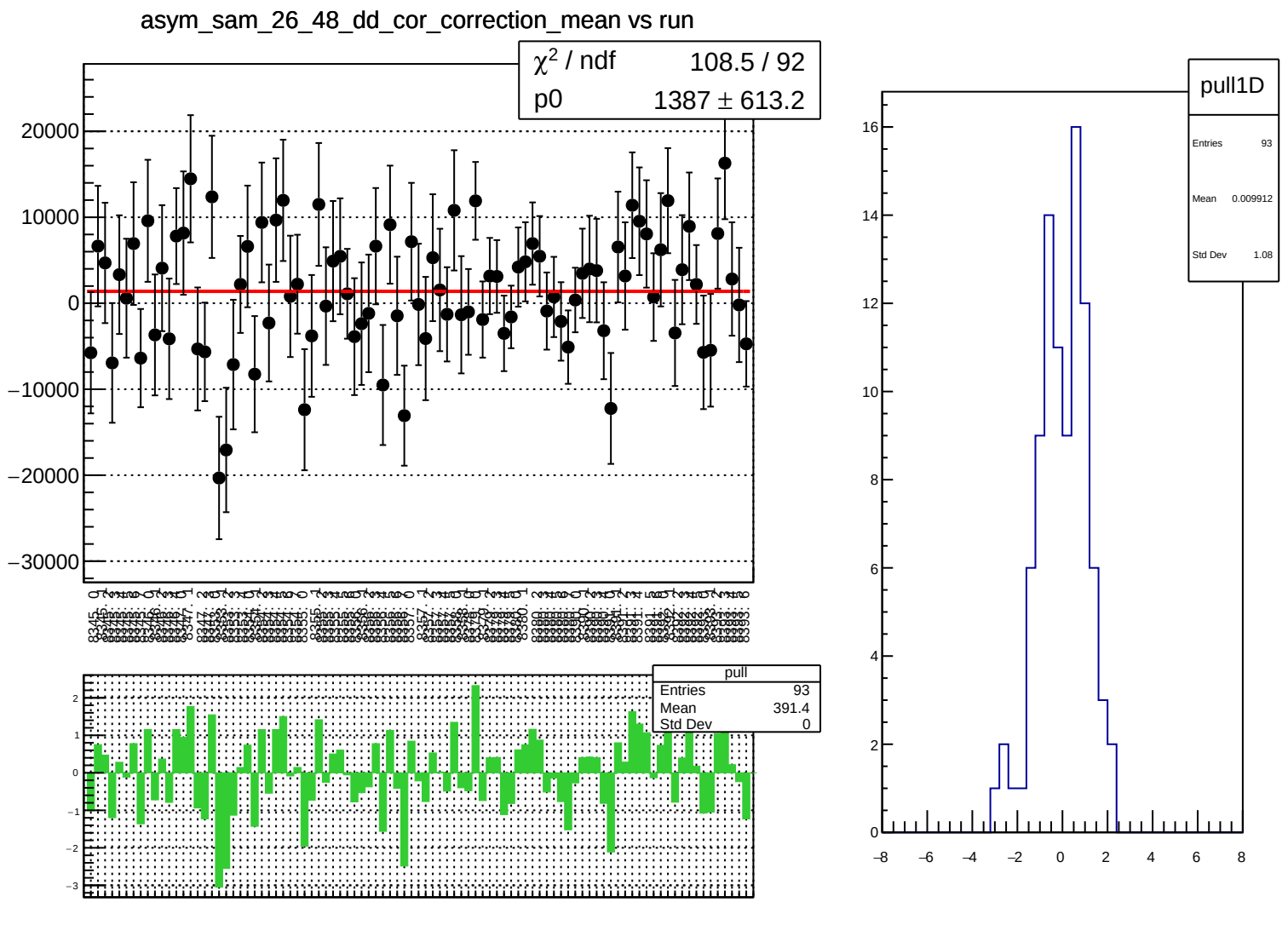

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 7023 / 92
p0 75.19 ± 0.05586
120
110
100
90
80
70

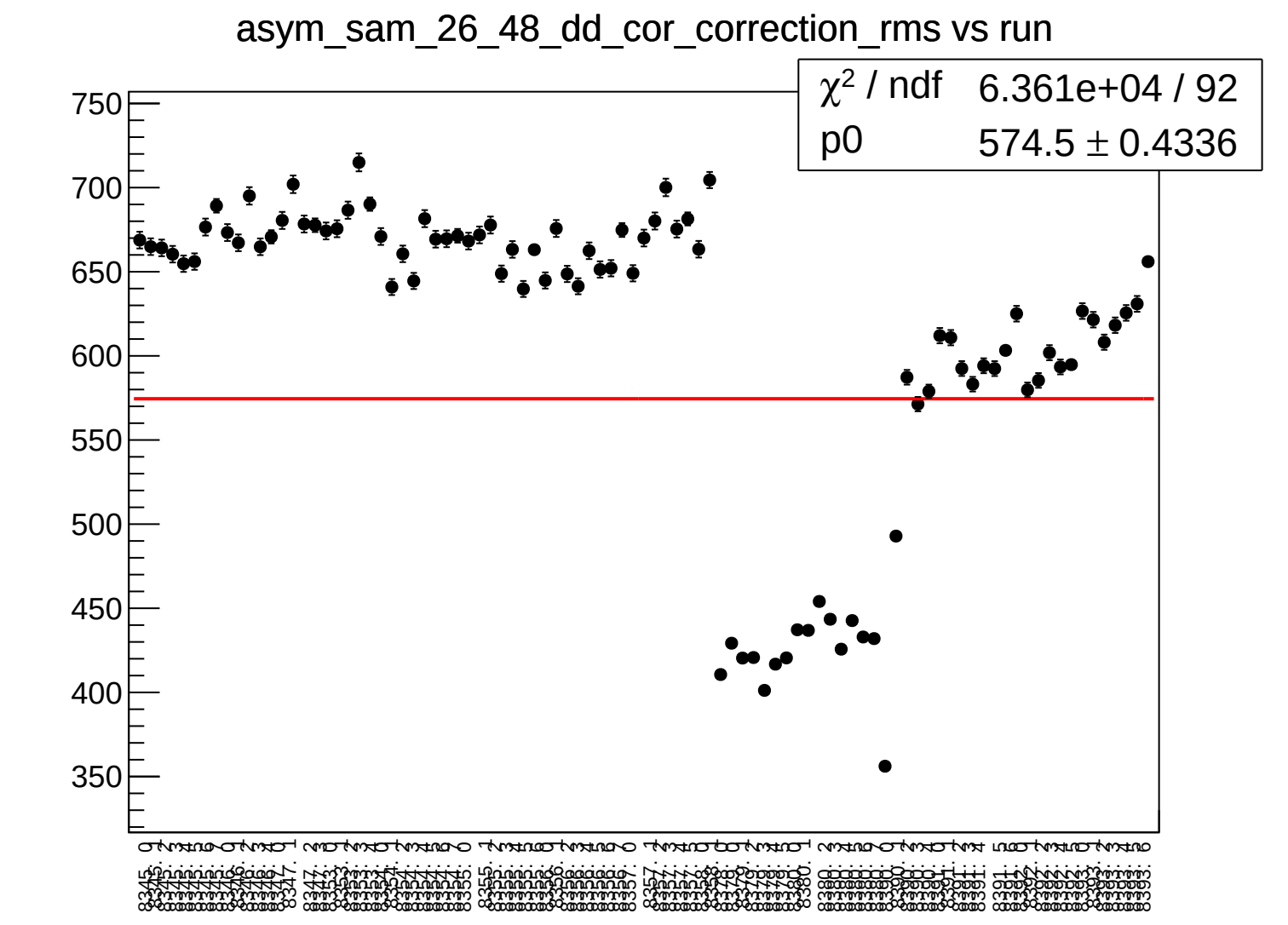

asym_sam_26_48_dd_reg_correction_mean vs run
χ² / ndf 108.5 / 92
p0 1387 ± 613.2
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean 391.4
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.009912
Std Dev 1.08
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

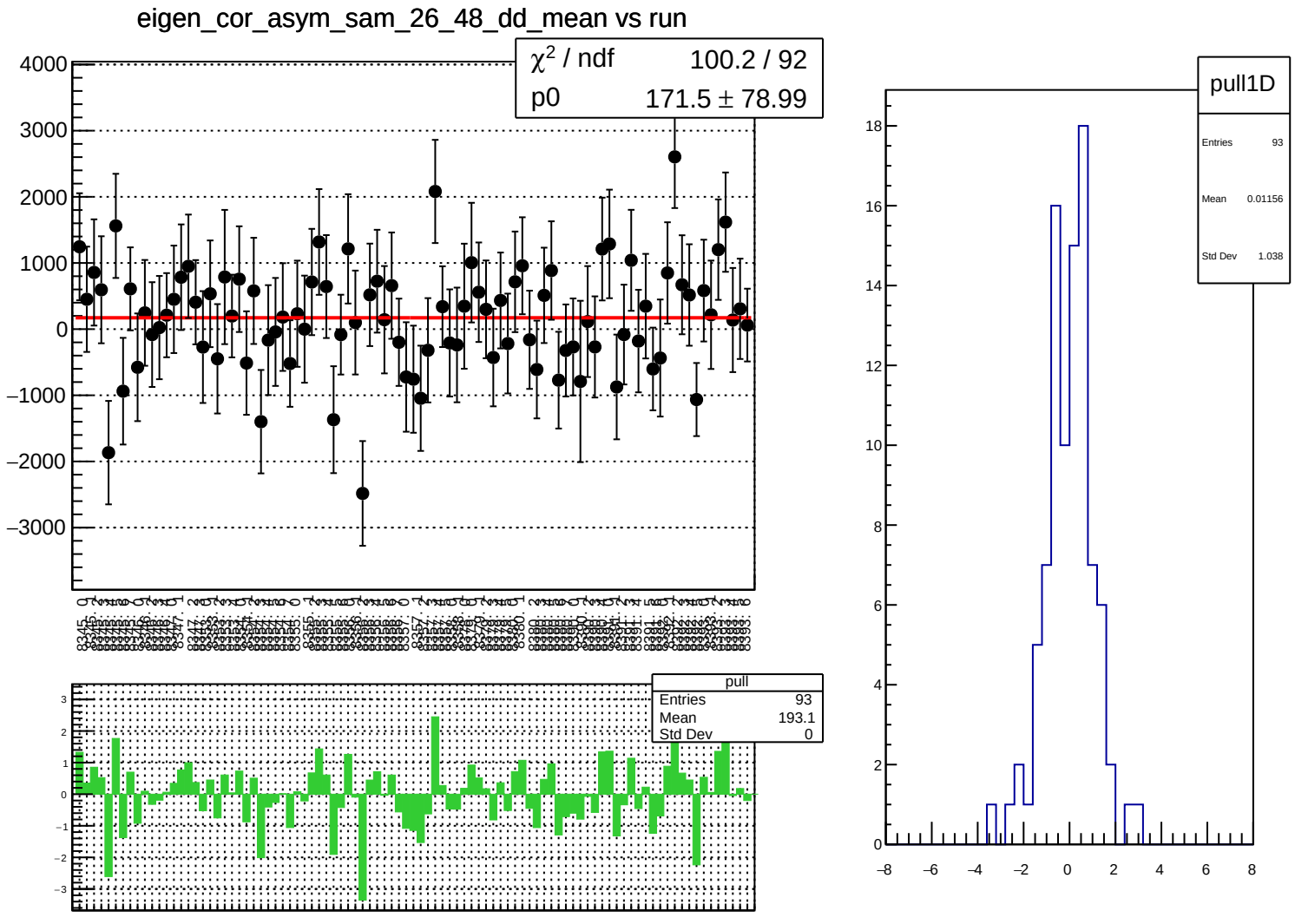

asym_sam_26_48_dd_reg_correction_rms vs run
χ² / ndf 6.361e+04 / 92
p0 574.5 ± 0.4336
750
700
650
600
550
500
450
400
350

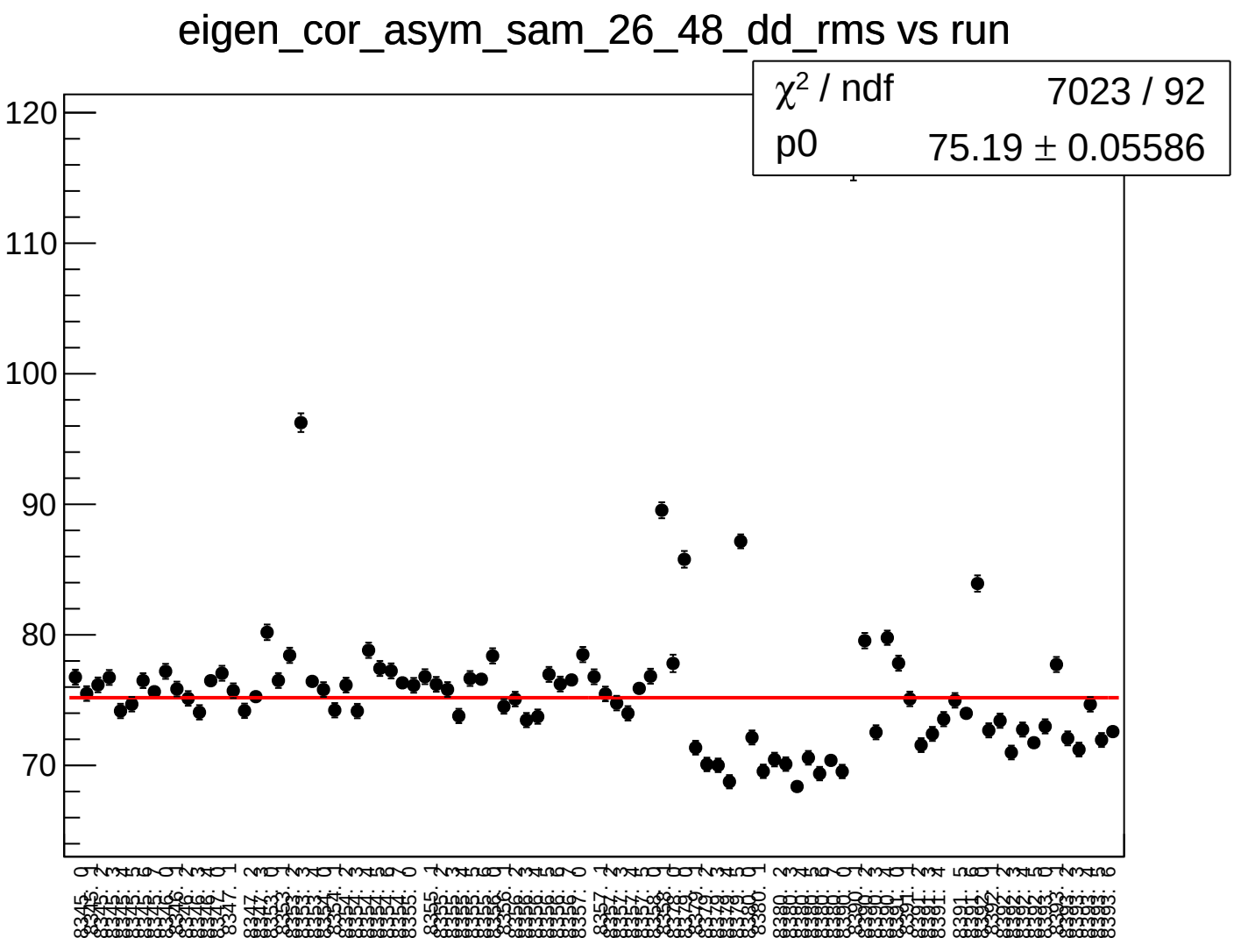

cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 100.2 / 92
p0 171.5 ± 78.99
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean 193.1
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.01156
Std Dev 1.038
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

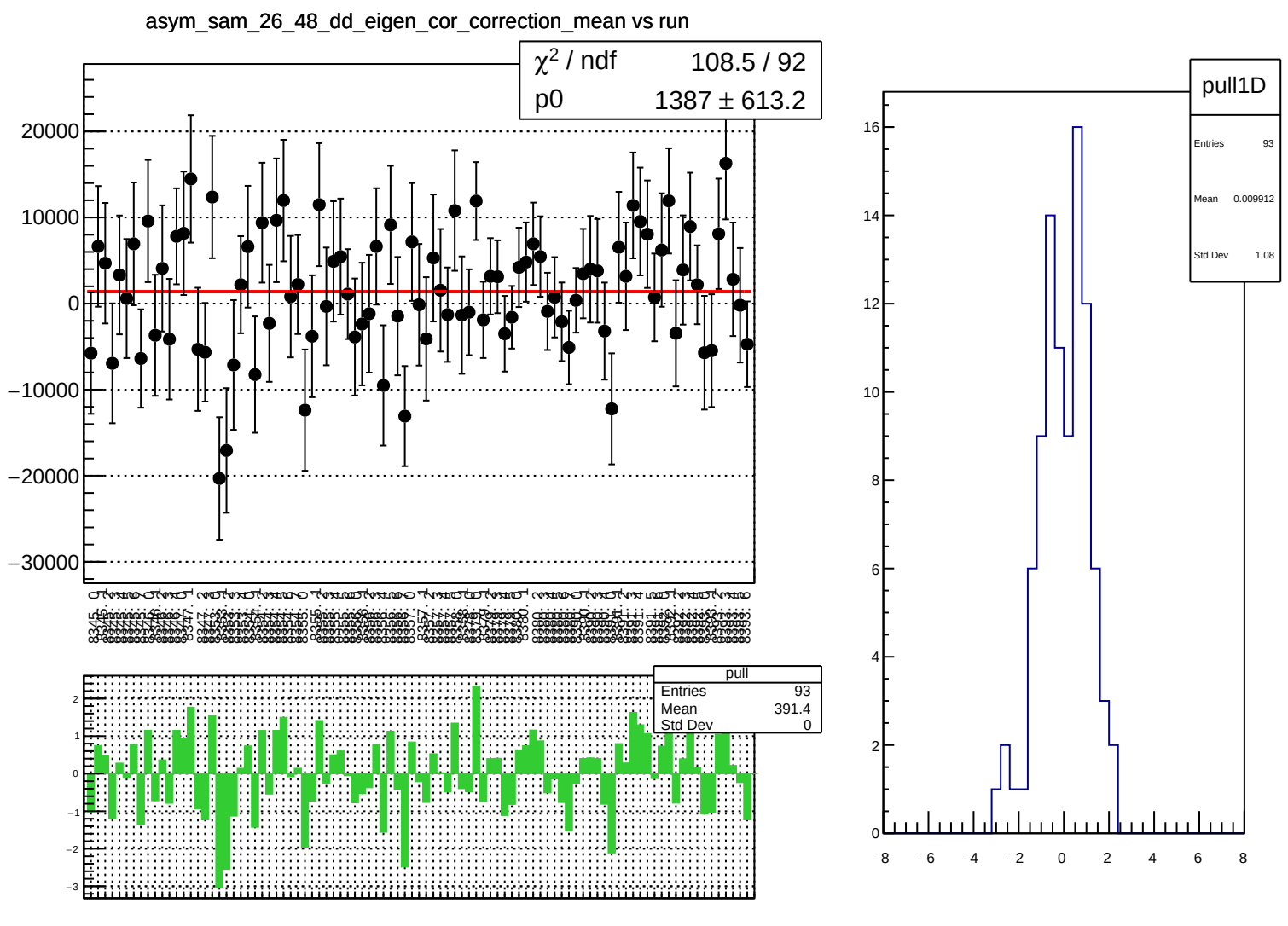

cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 7023 / 92
p0 75.19 ± 0.05586
120
110
100
90
80
70

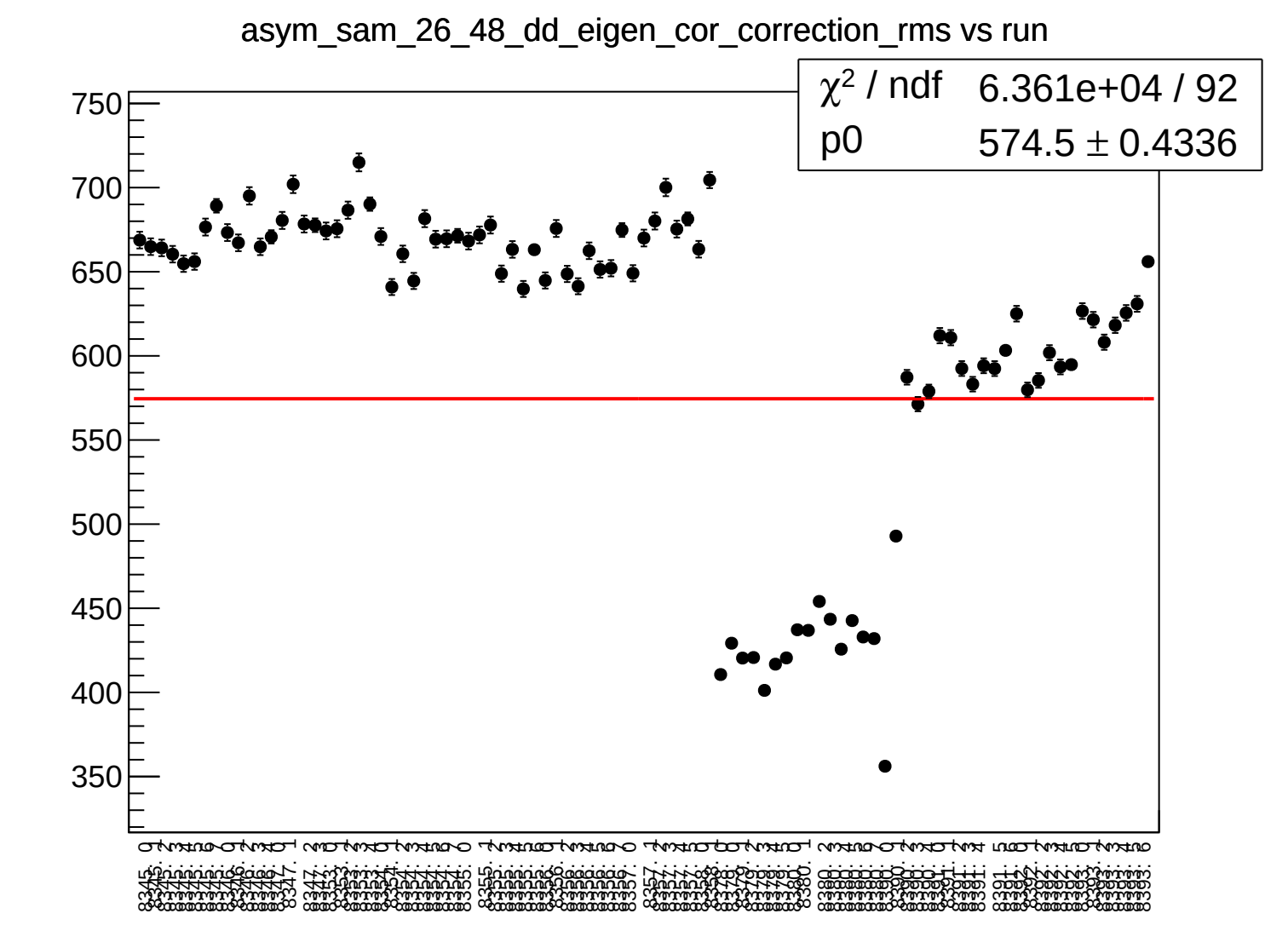

asym_sam_26_48_dd_cor_correction_mean vs run
χ² / ndf 108.5 / 92
p0 1387 ± 613.2
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean 391.4
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.009912
Std Dev 1.08
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

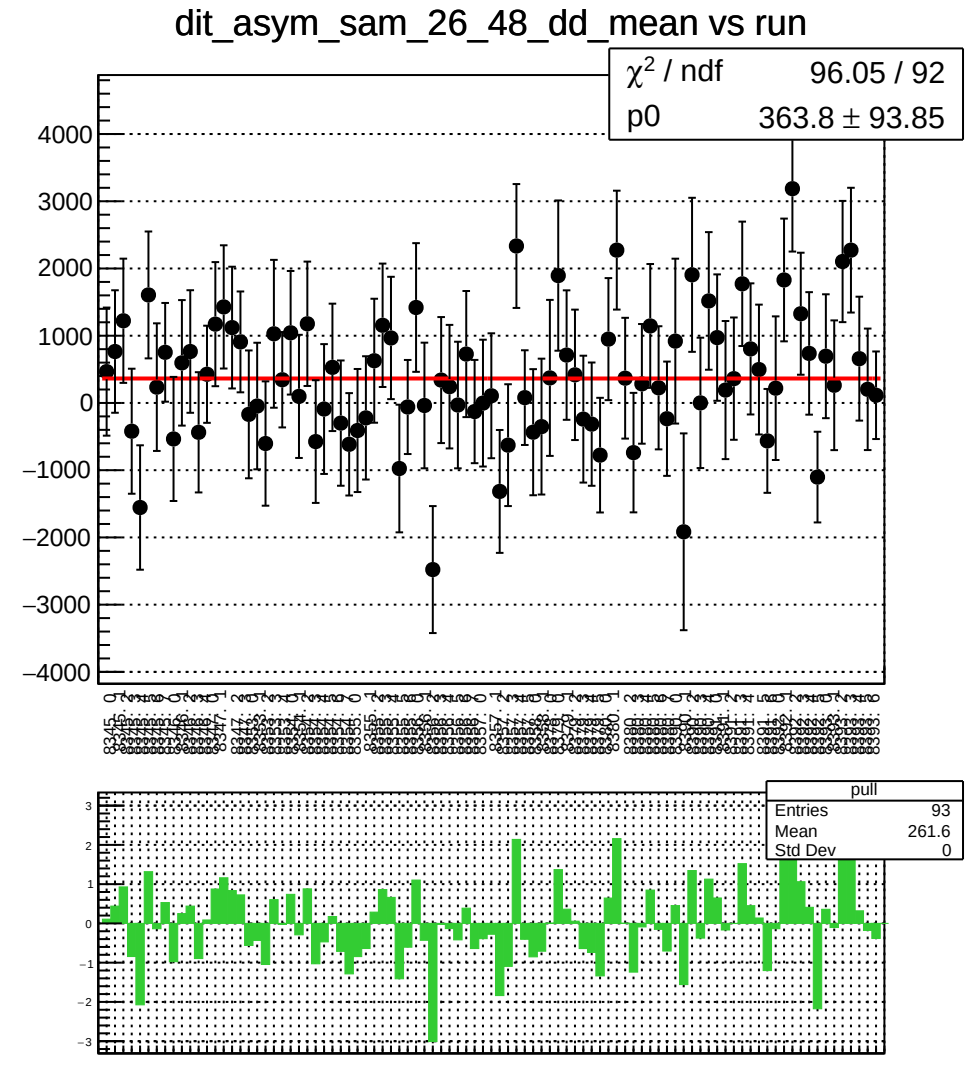

asym_sam_26_48_dd_cor_correction_rms vs run
χ² / ndf 6.361e+04 / 92
p0 574.5 ± 0.4336
750
700
650
600
550
500
450
400
350

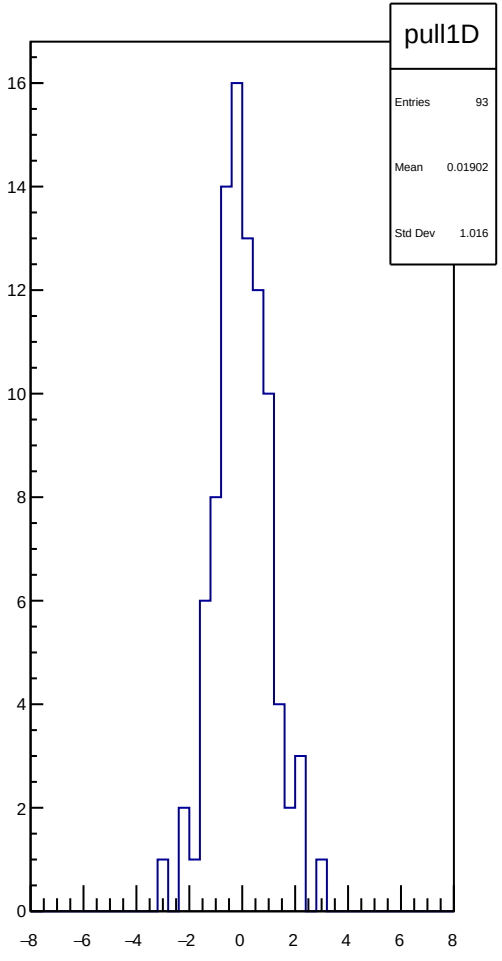

eigen_cor_asym_sam_26_48_dd_mean vs run
χ^2 / ndf 100.2 / 92
p0 171.5 ± 78.99
pull
Entries 93
Mean 193.1
Std Dev 0
pull1D
Entries 93
Mean 0.01156
Std Dev 1.038

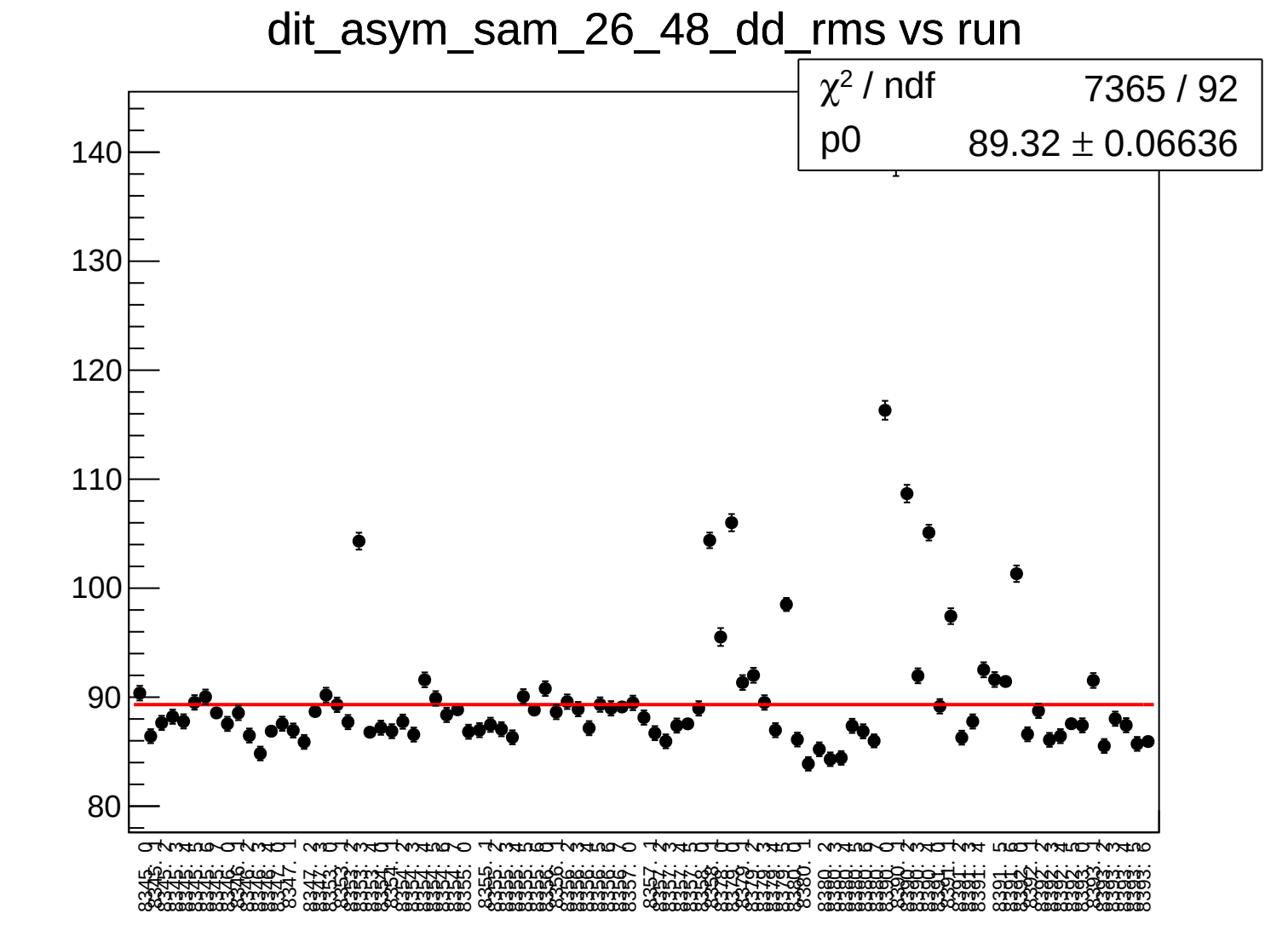

eigen_cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 7023 / 92
p0 75.19 ± 0.05586
120
110
100
90
80
70

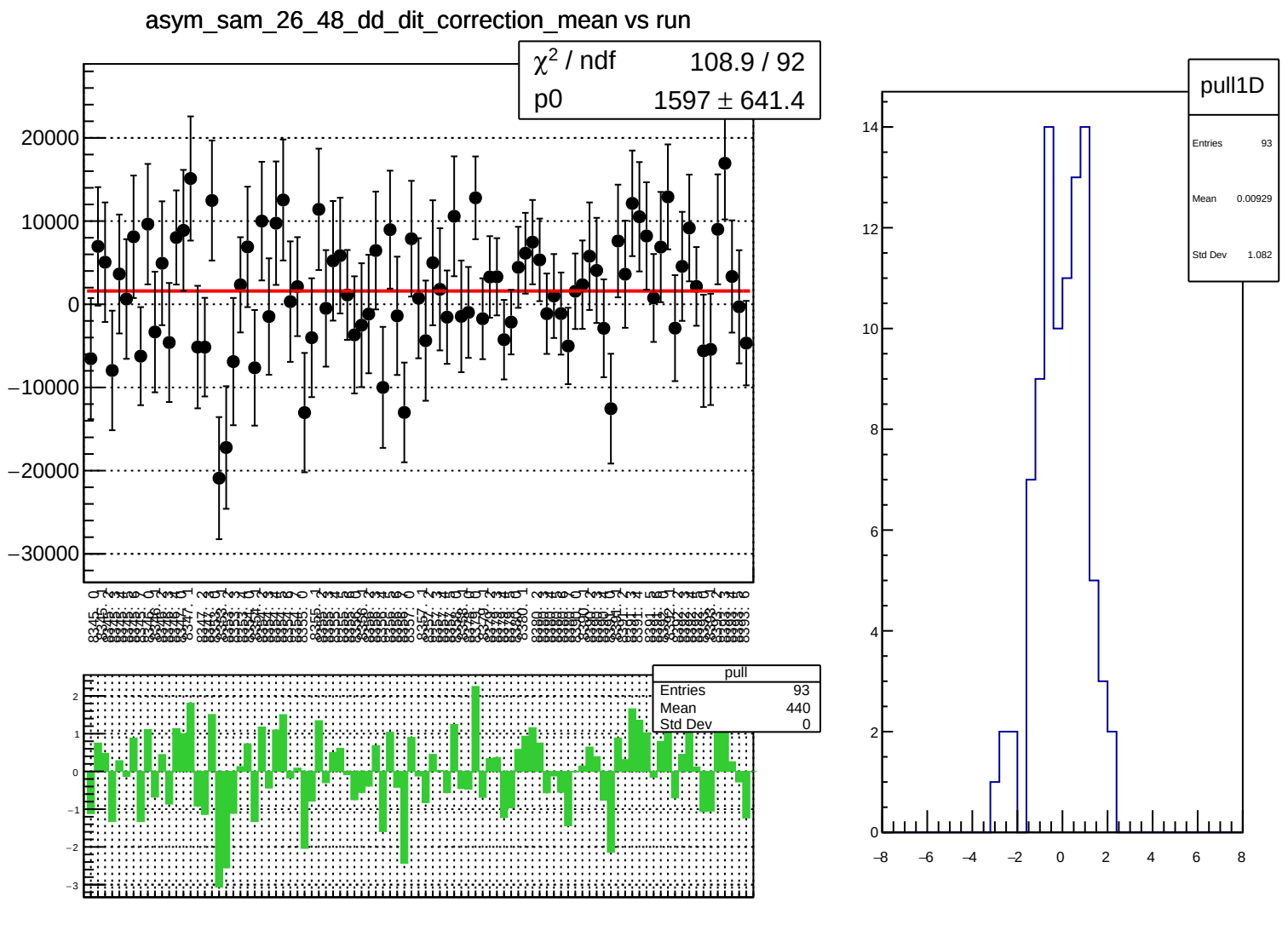

asym_sam_26_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 108.5 / 92
p0 1387 ± 613.2
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean 391.4
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.009912
Std Dev 1.08
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

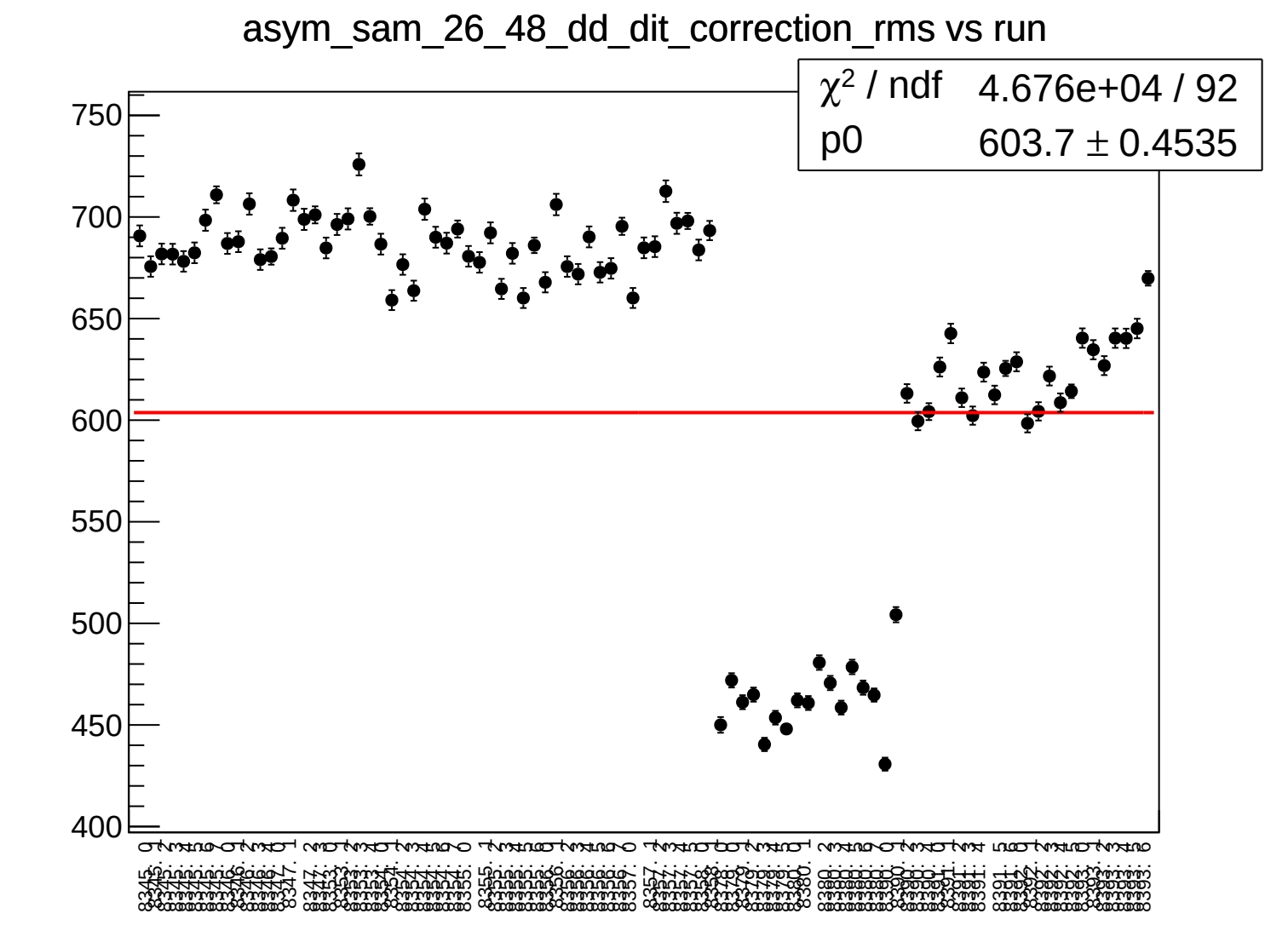

asym_sam_26_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 6.361e+04 / 92
p0 574.5 ± 0.4336
750
700
650
600
550
500
450
400
350

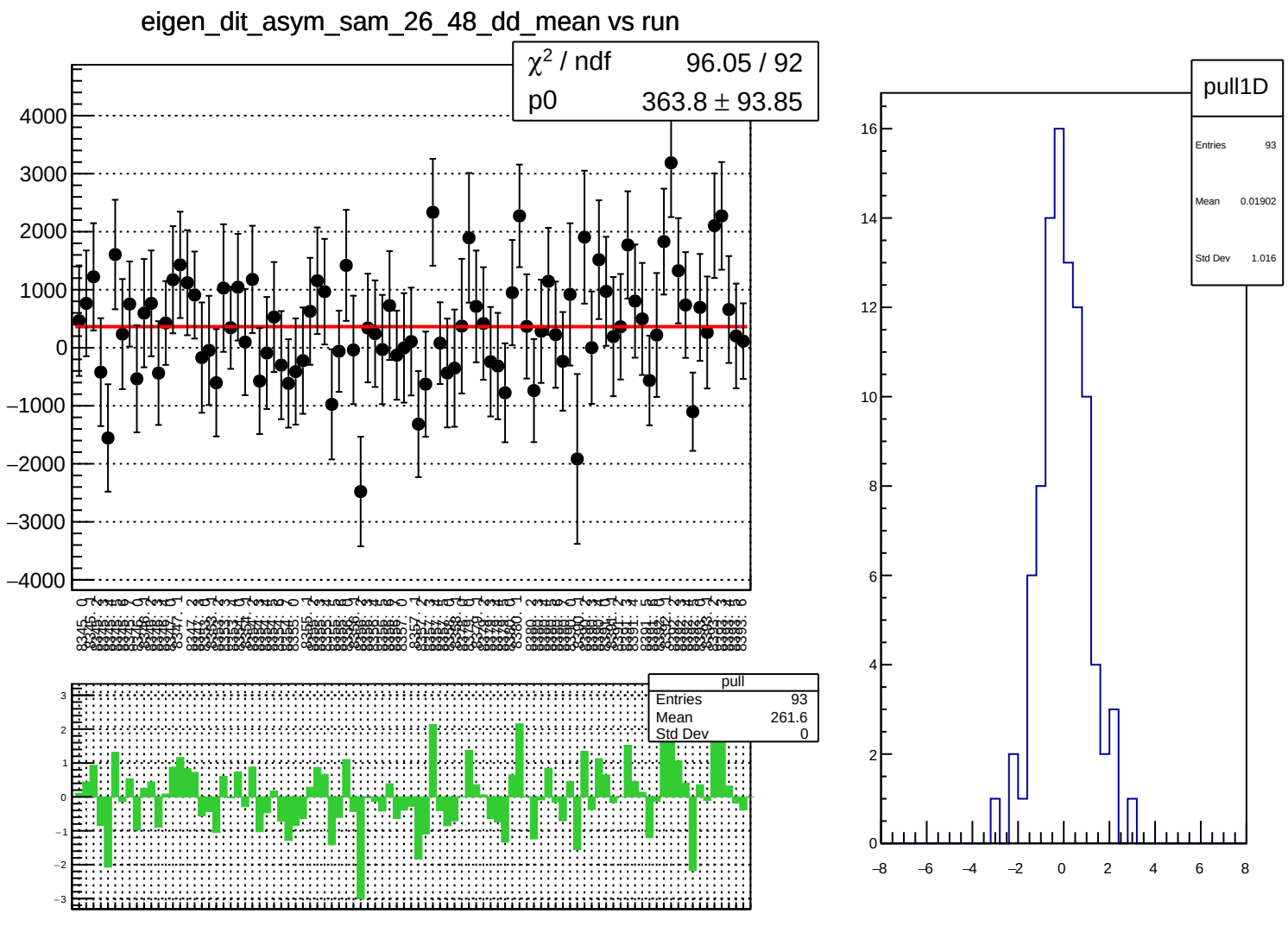

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 96.05 / 92
p0 363.8 ± 93.85
pull
Entries 93
Mean 261.6
Std Dev 0

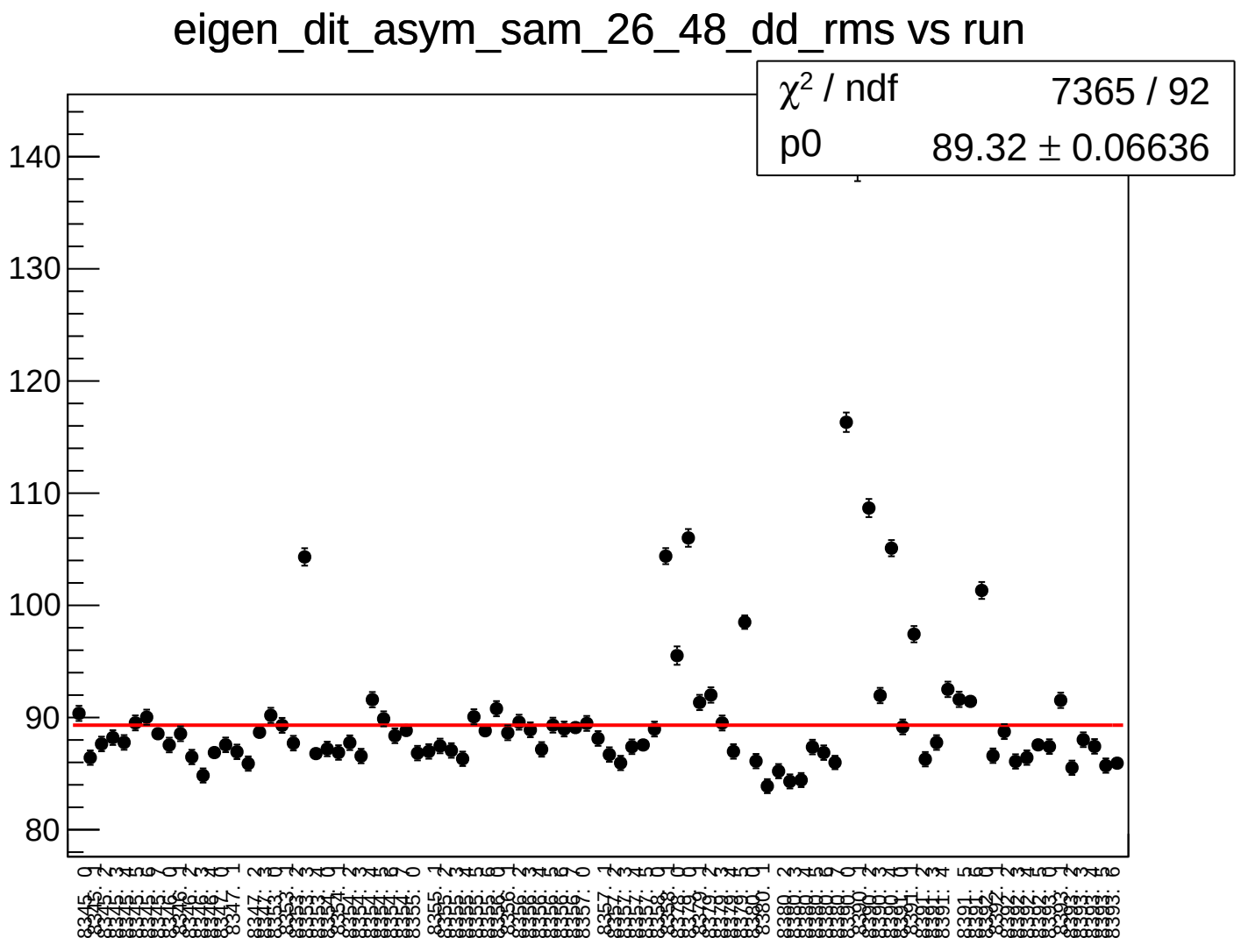

pull1D
Entries 93
Mean 0.01902
Std Dev 1.016

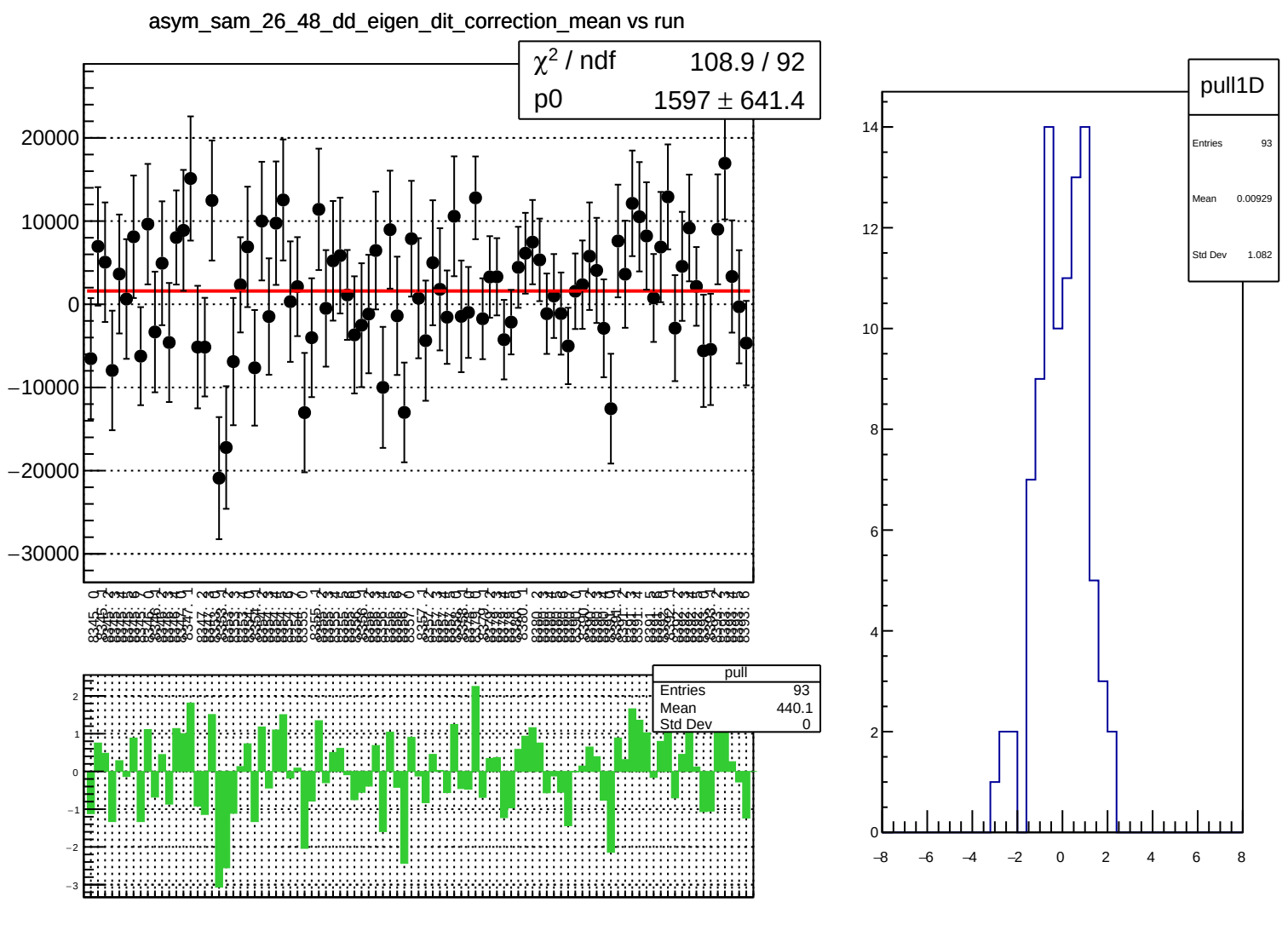

dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 7365 / 92
p0 89.32 ± 0.06636
140
130
120
110
100
90
80

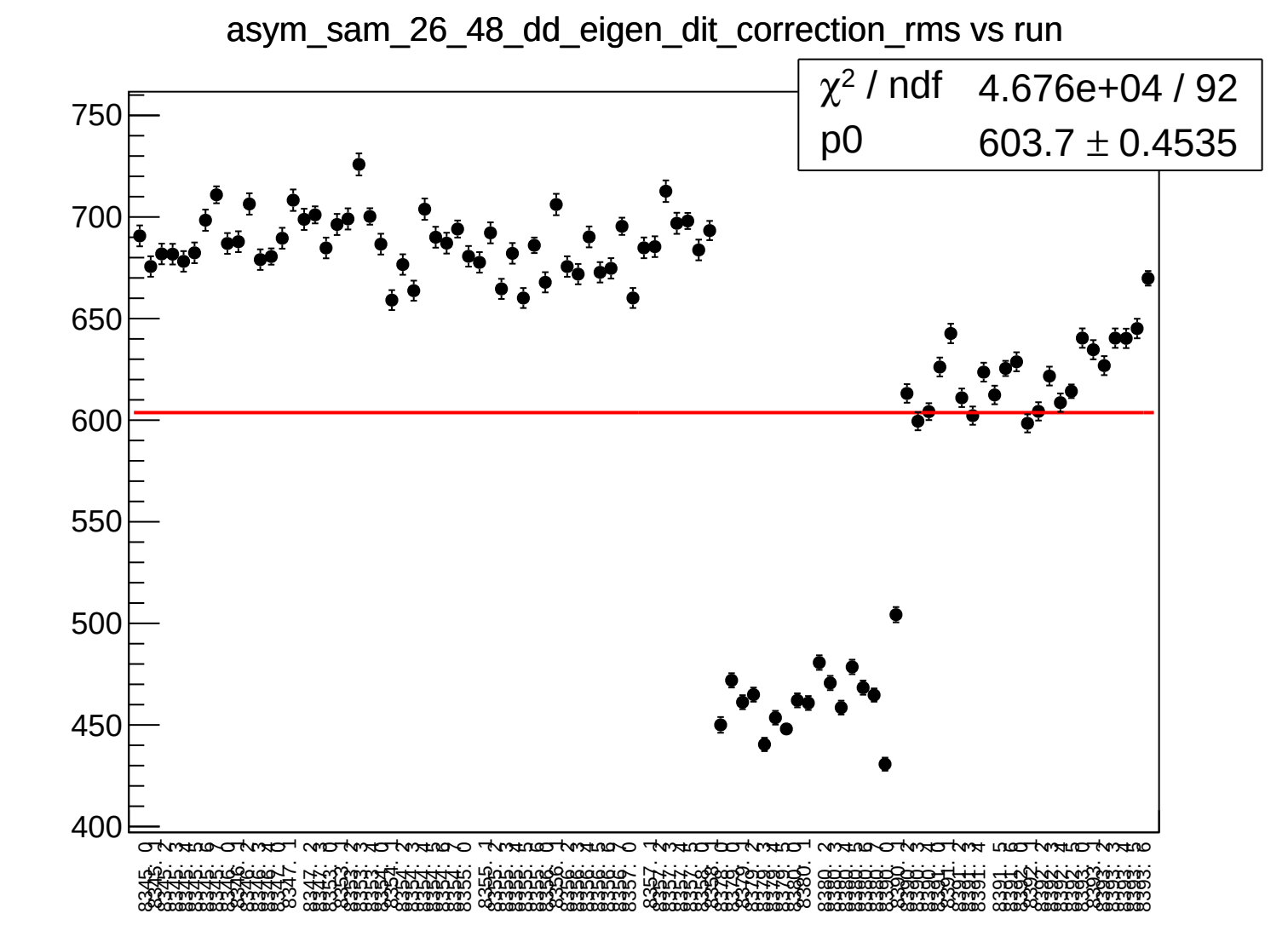

asym_sam_26_48_dd_dit_correction_mean vs run
χ² / ndf 108.9 / 92
p0 1597 ± 641.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean 440
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.00929
Std Dev 1.082
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

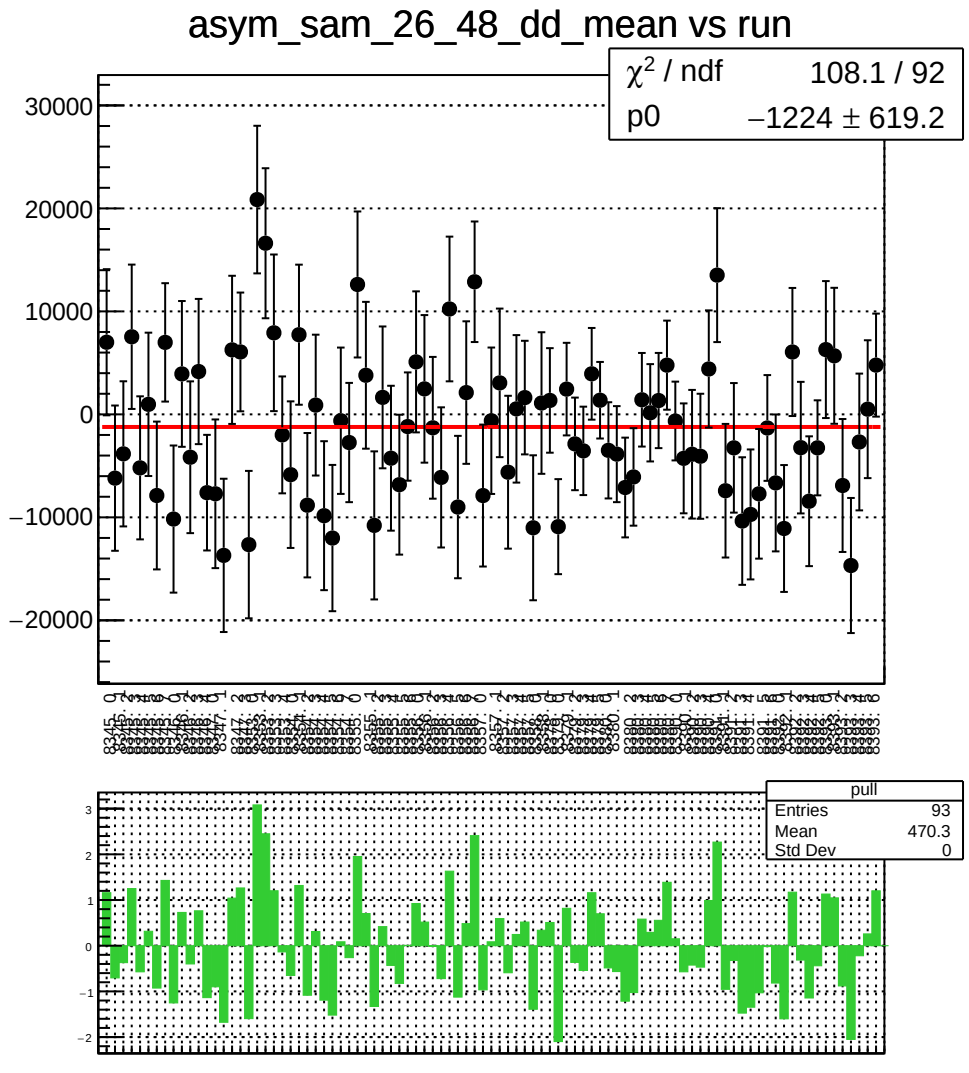

asym_sam_26_48_dd_dit_correction_rms vs run
χ² / ndf 4.676e+04 / 92
p0 603.7 ± 0.4535
750
700
650
600
550
500
450
400

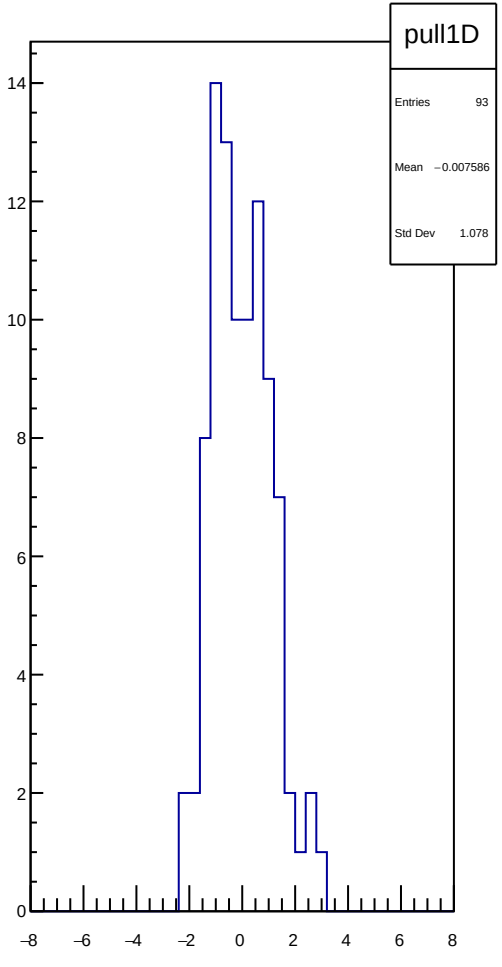

eigen_dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 96.05 / 92
p0 363.8 ± 93.85
pull
Entries 93
Mean 261.6
Std Dev 0
pull1D
Entries 93
Mean 0.01902
Std Dev 1.016

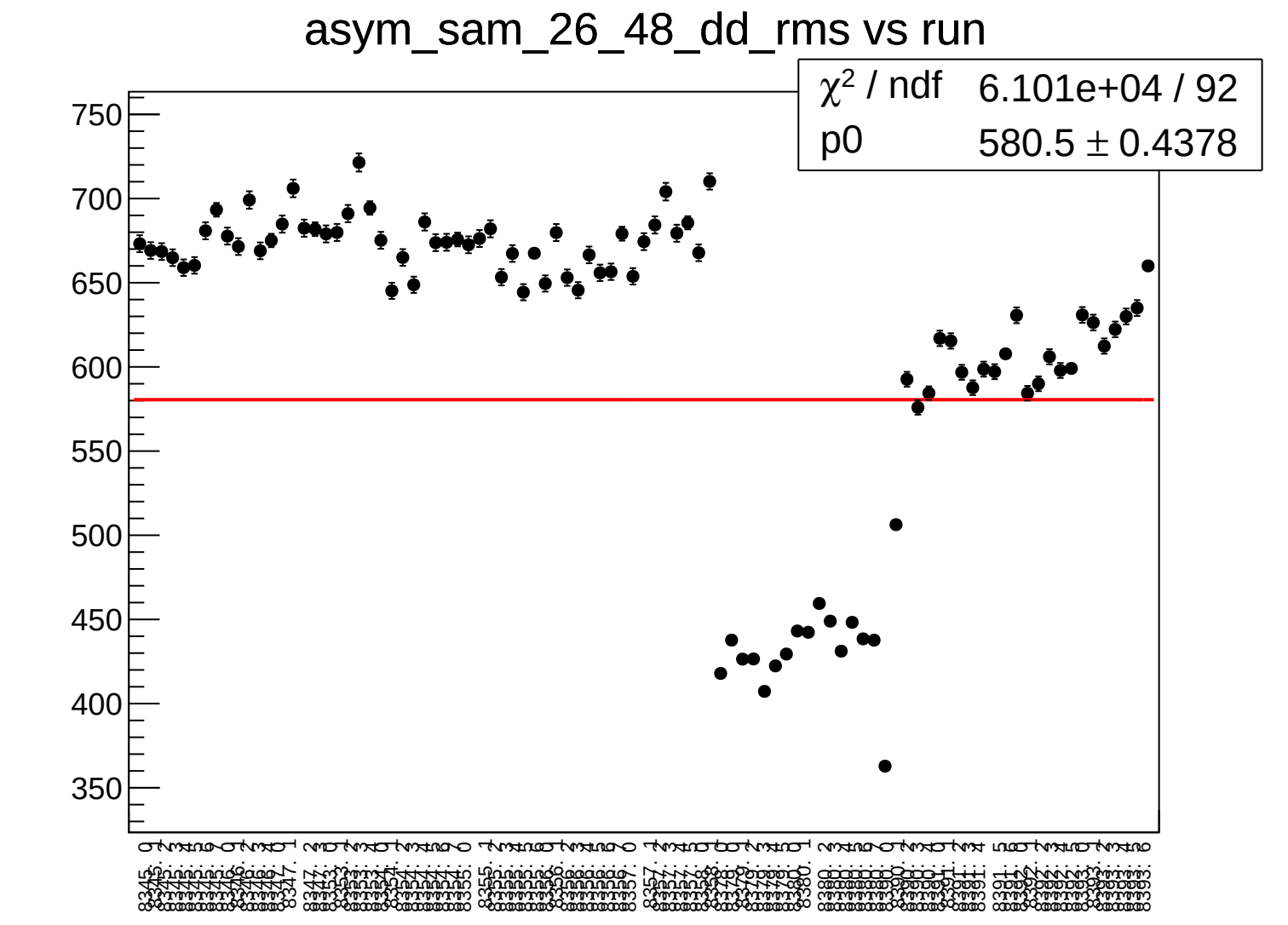

eigen_dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 7365 / 92
p0 89.32 ± 0.06636
140
130
120
110
100
90
80

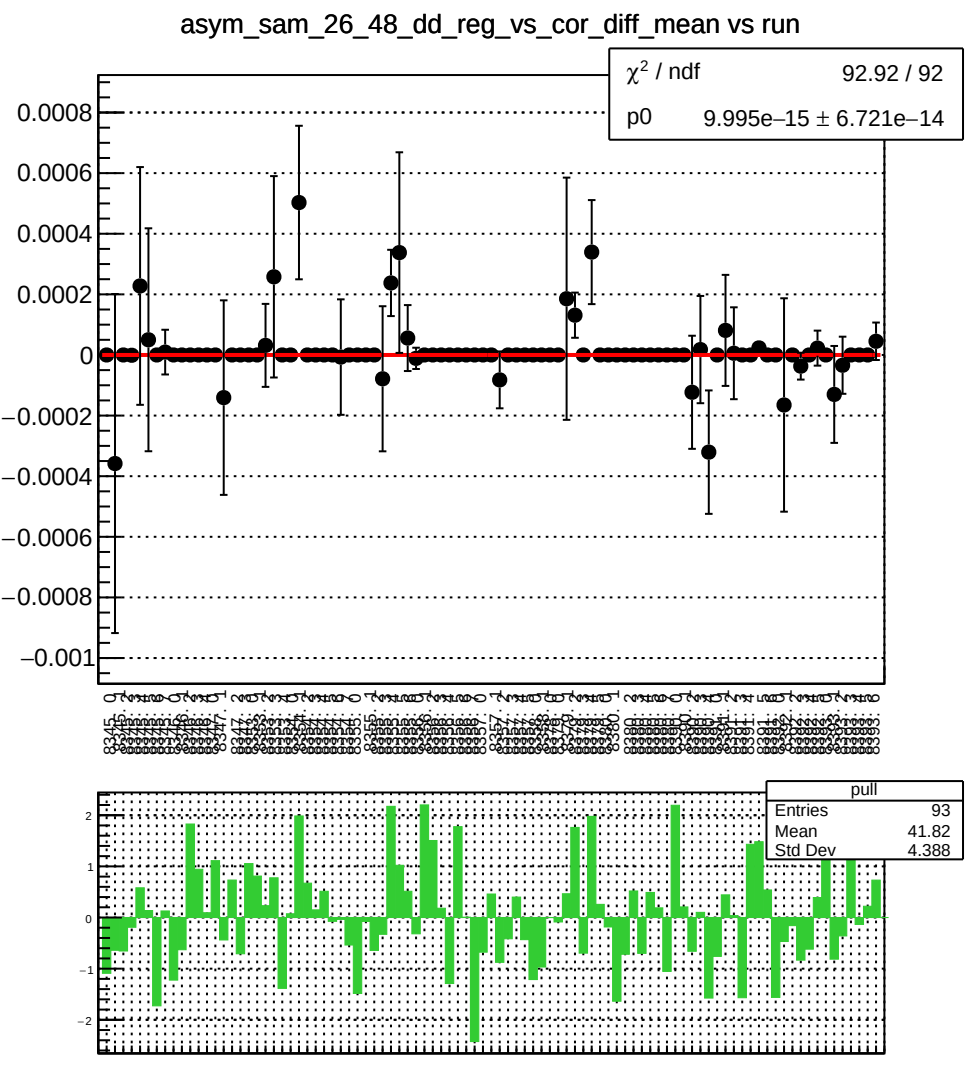

asym_sam_26_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 108.9 / 92
p0 1597 ± 641.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean 440.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.00929
Std Dev 1.082
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

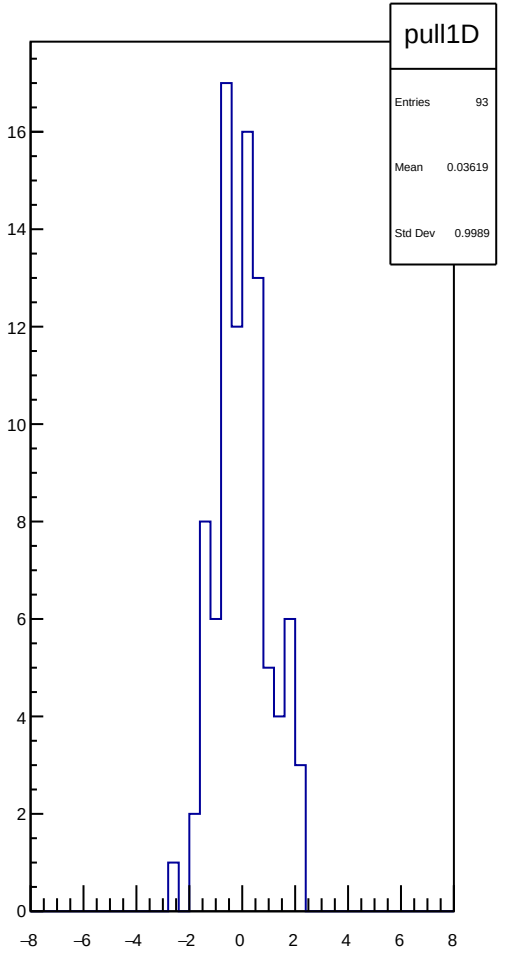

asym_sam_26_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 4.676e+04 / 92
p0 603.7 ± 0.4535
750
700
650
600
550
500
450
400

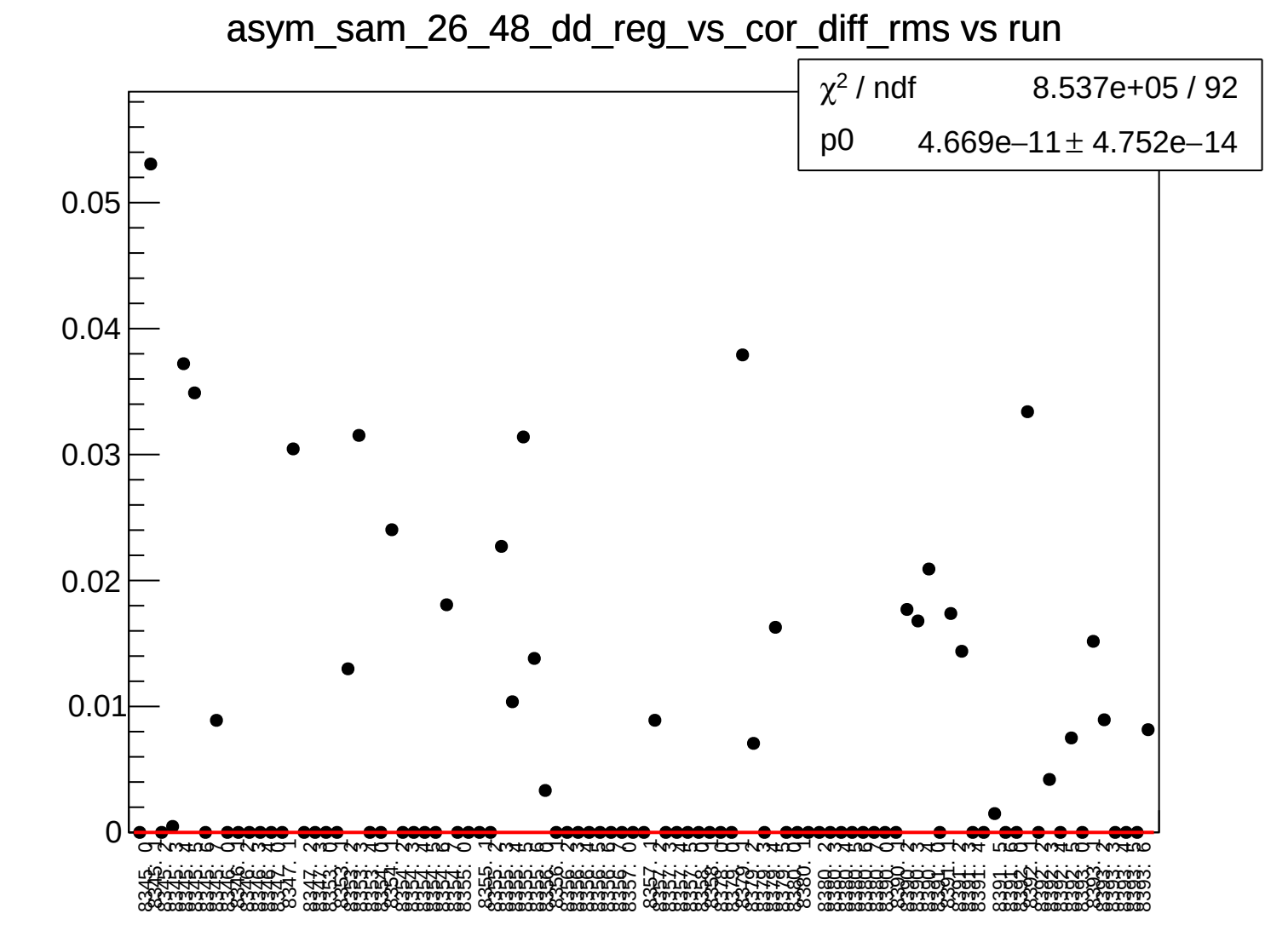

asym_sam_26_48_dd_mean vs run
χ² / ndf 108.1 / 92
p0 −1224 ± 619.2
30000
20000
10000
0
−10000
−20000
pull
Entries 93
Mean 470.3
Std Dev 0
3
2
1
0
−1
−2

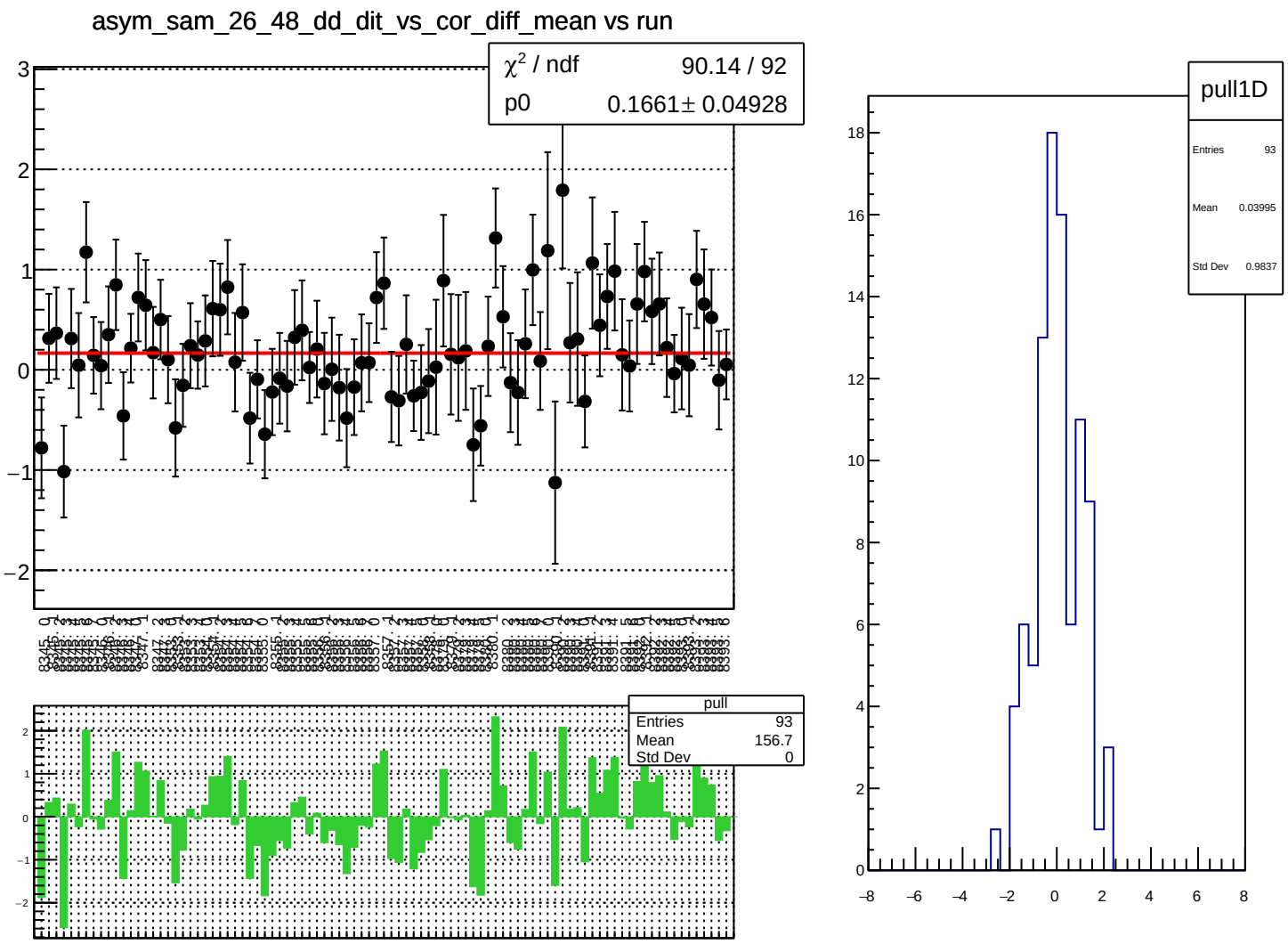

pull1D
Entries 93
Mean −0.007586
Std Dev 1.078
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

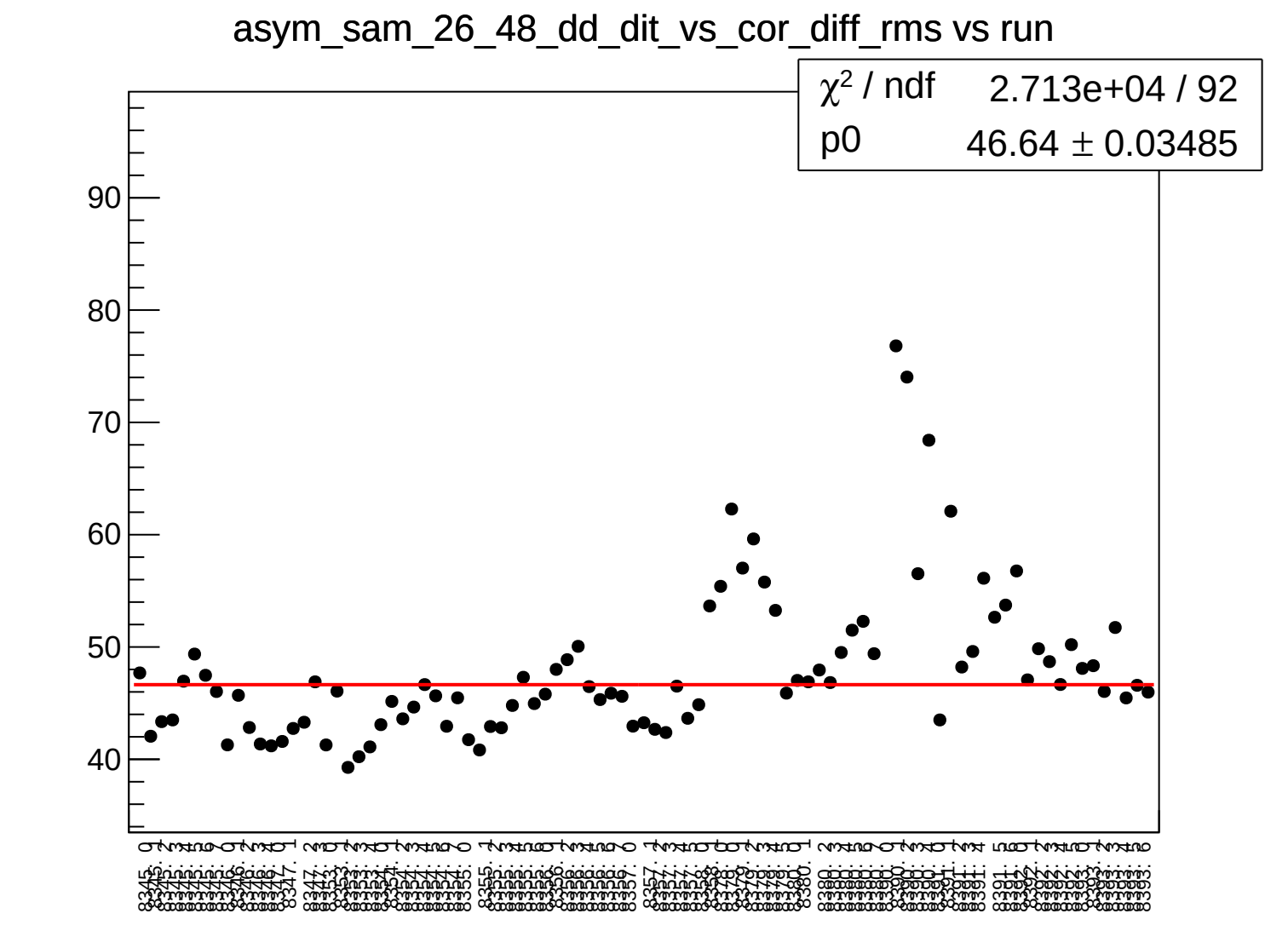

asym_sam_26_48_dd_rms vs run
χ^2 / ndf 6.101e+04 / 92
p0 580.5 ± 0.4378
750
700
650
600
550
500
450
400
350

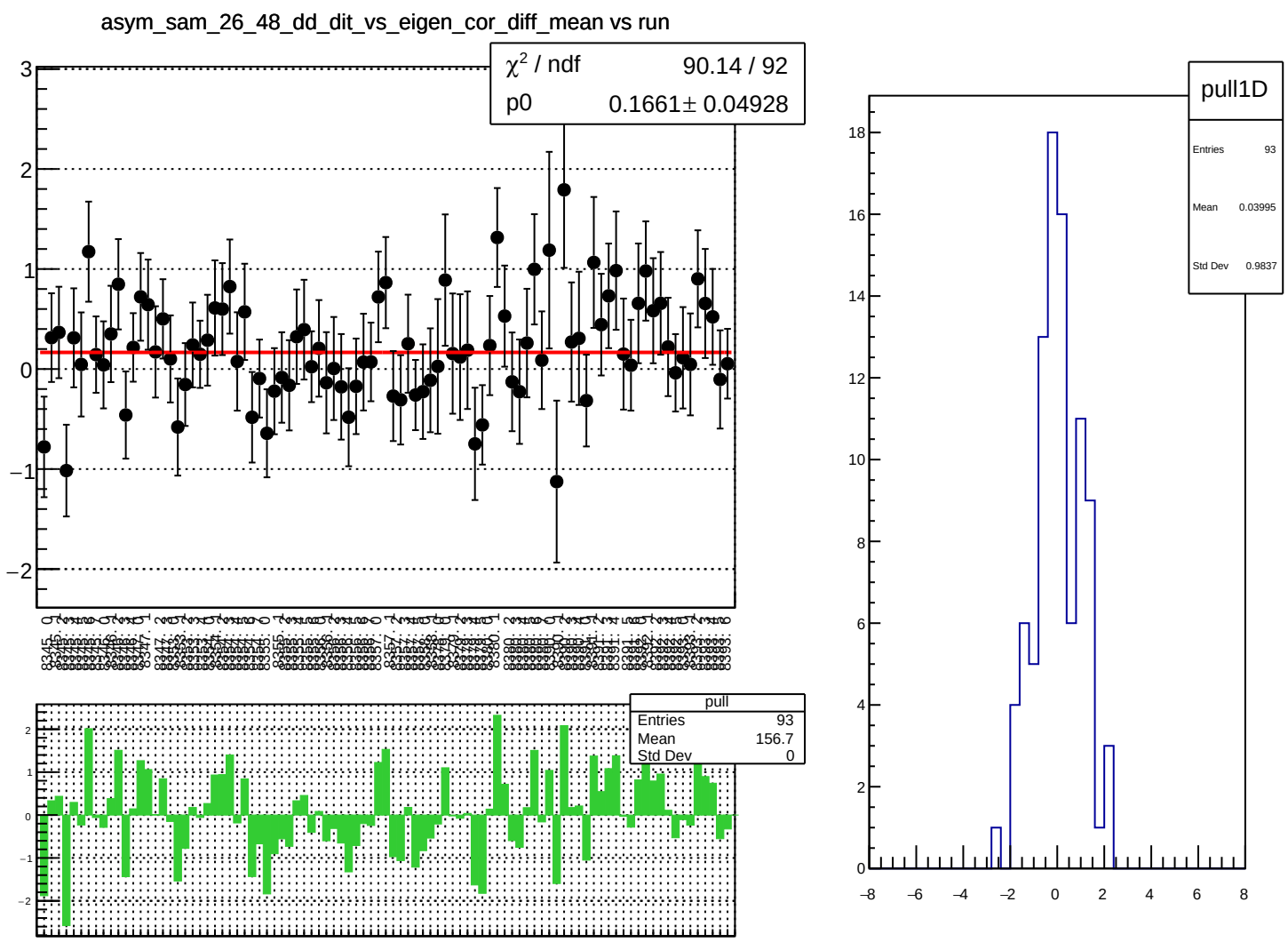

asym_sam_26_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 92.92 / 92
p0 9.995e−15 ± 6.721e−14
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 93
Mean 41.82
Std Dev 4.388
2
1
0
−1
−2

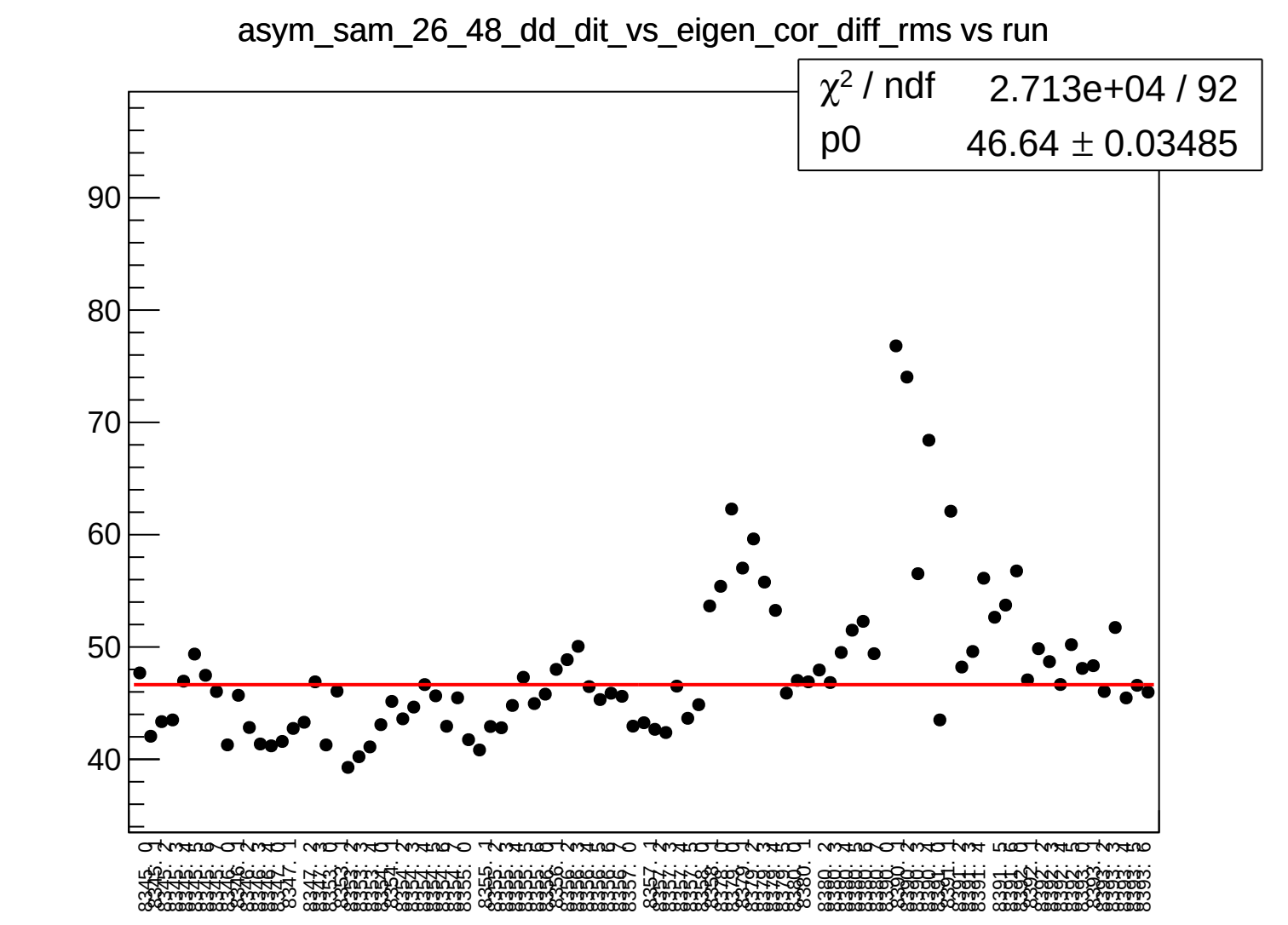

pull1D
Entries 93
Mean 0.03619
Std Dev 0.9989
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

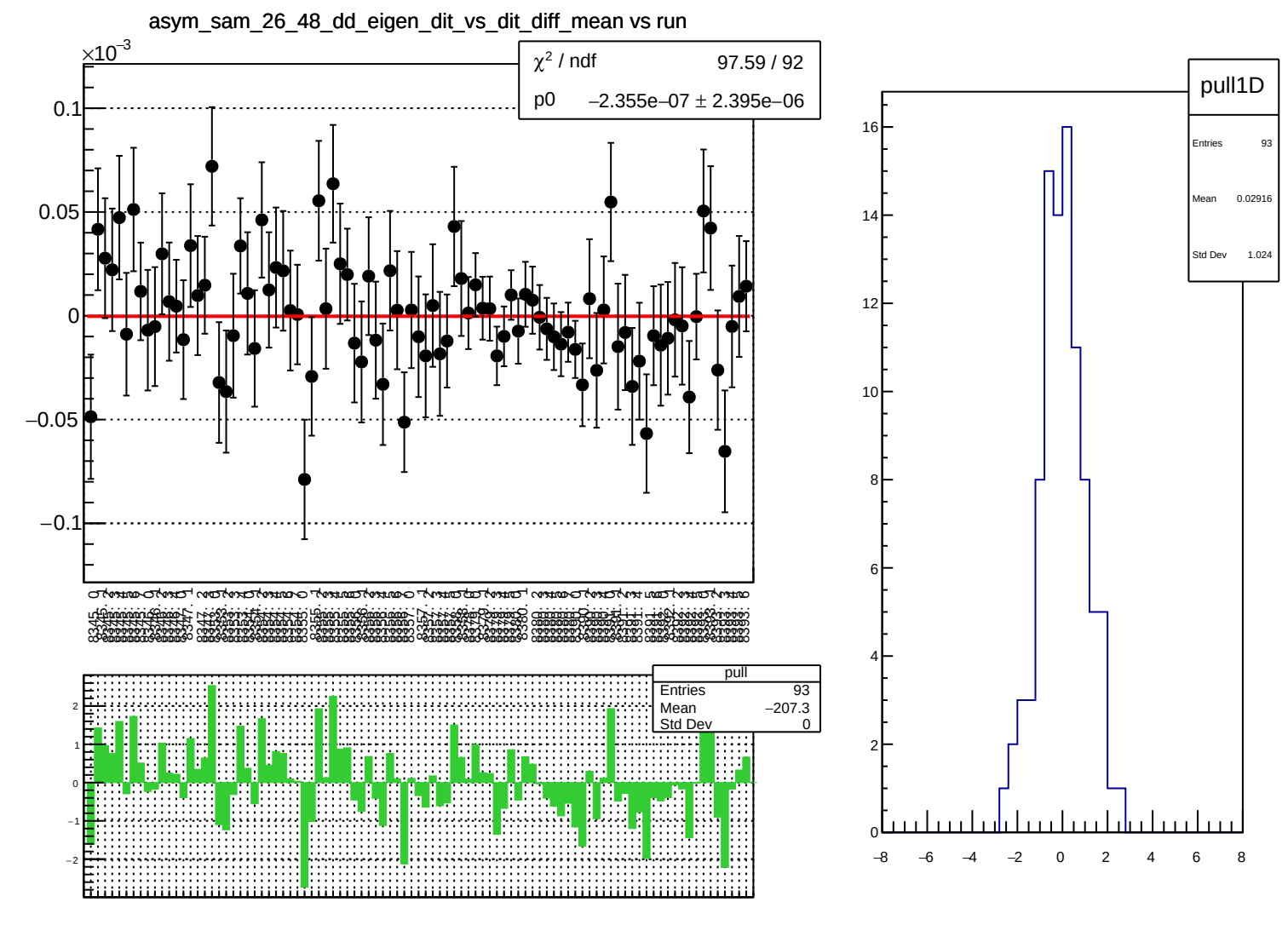

asym_sam_26_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.537e+05 / 92
p0 4.669e−11 ± 4.752e−14
0.05
0.04
0.03
0.02
0.01
0

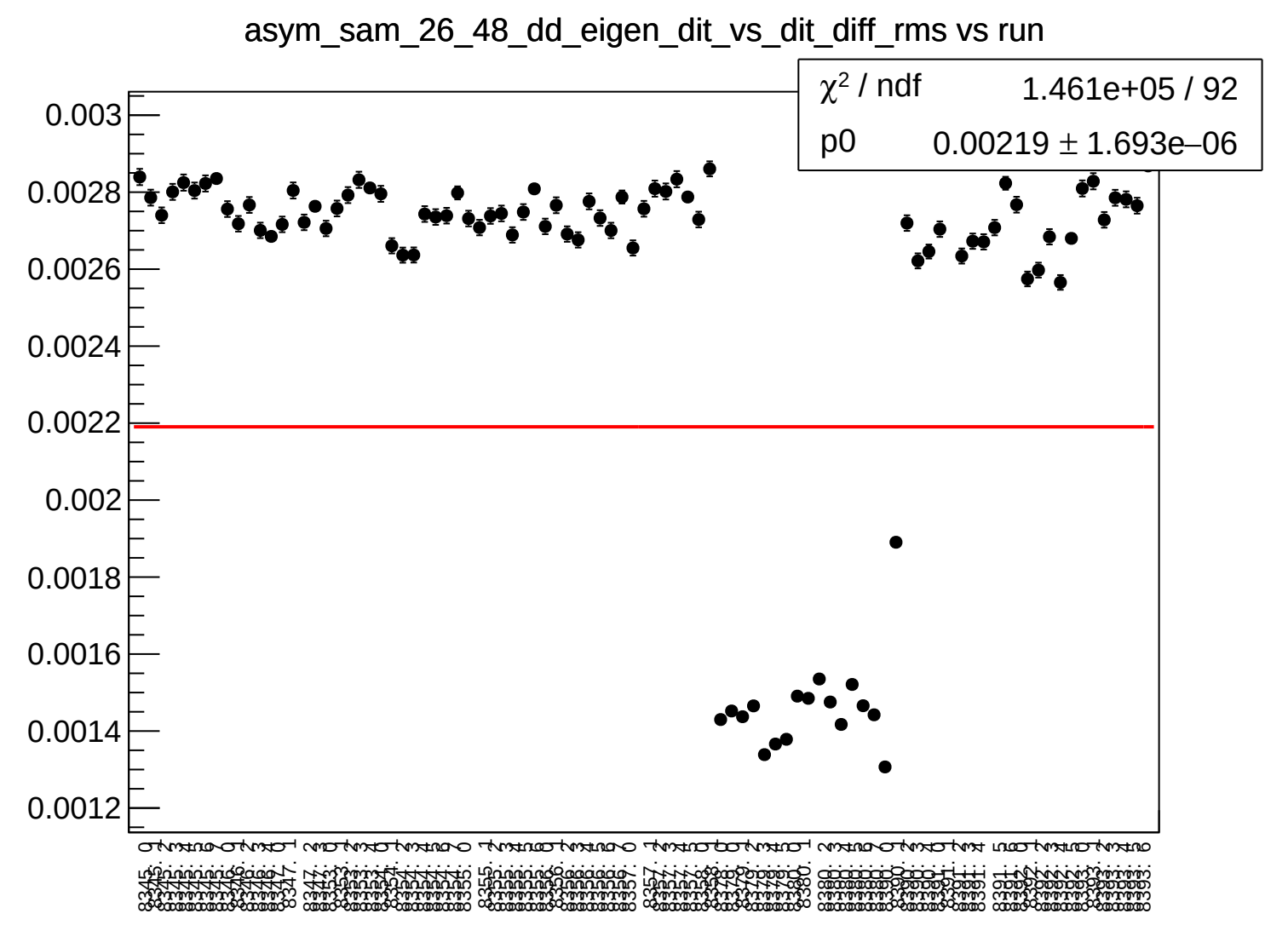

asym_sam_26_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 90.14 / 92
p0 0.1661± 0.04928
pull
Entries 93
Mean 156.7
Std Dev 0
pull1D
Entries 93
Mean 0.03995
Std Dev 0.9837

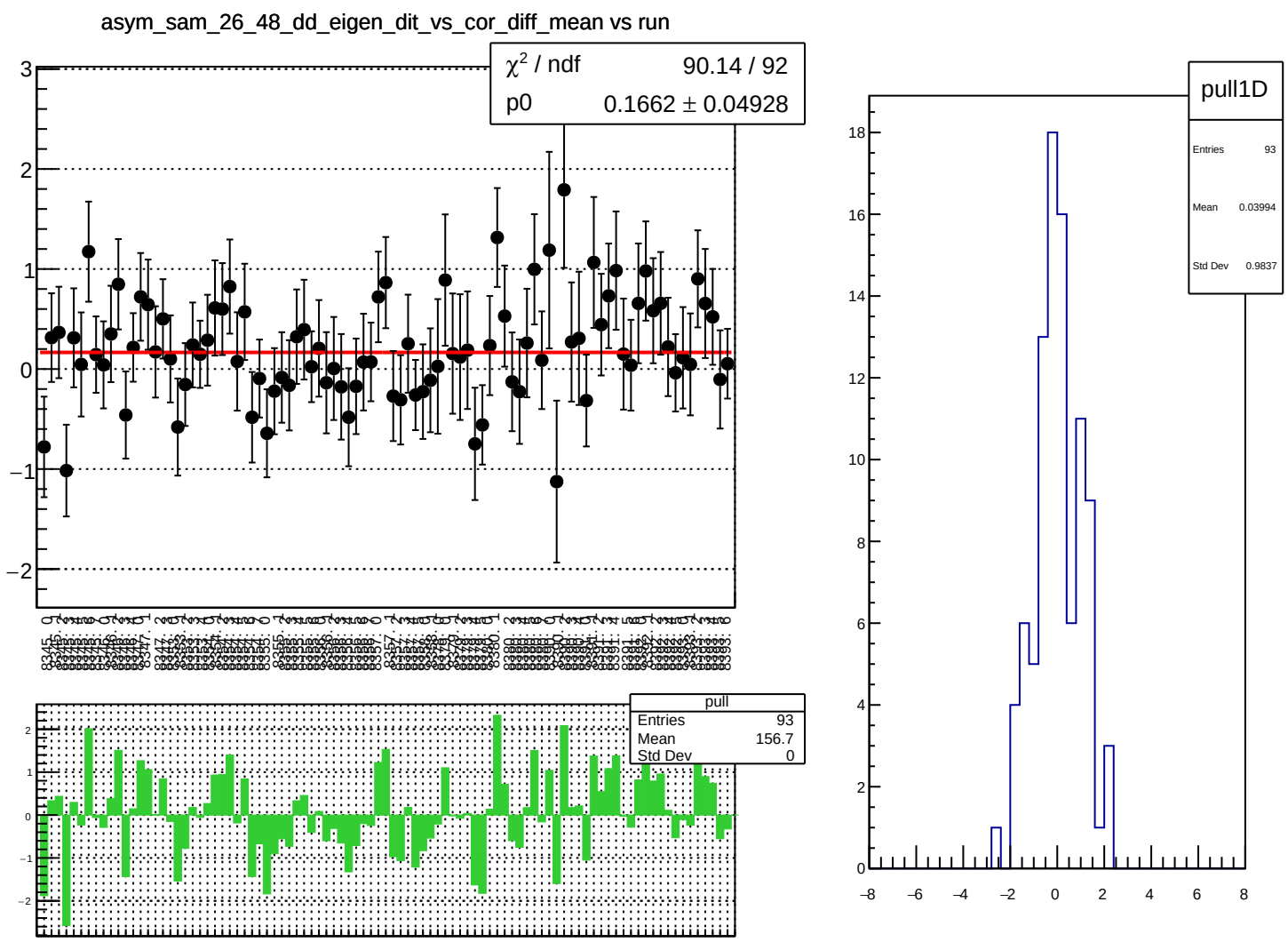

asym_sam_26_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.713e+04 / 92
p0 46.64 ± 0.03485
90
80
70
60
50
40

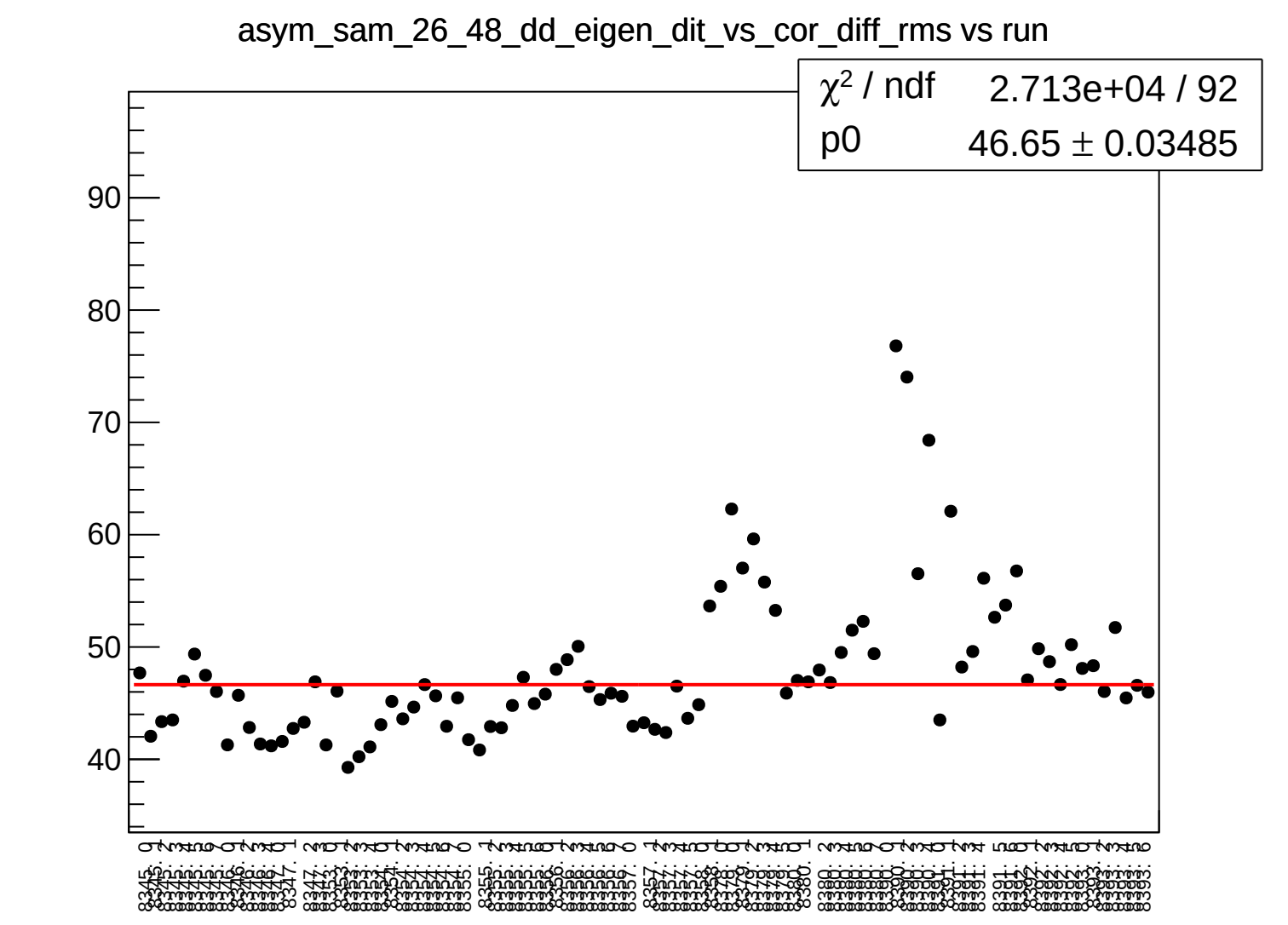

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.14 / 92
p0 0.1661± 0.04928
pull
Entries 93
Mean 156.7
Std Dev 0
pull1D
Entries 93
Mean 0.03995
Std Dev 0.9837

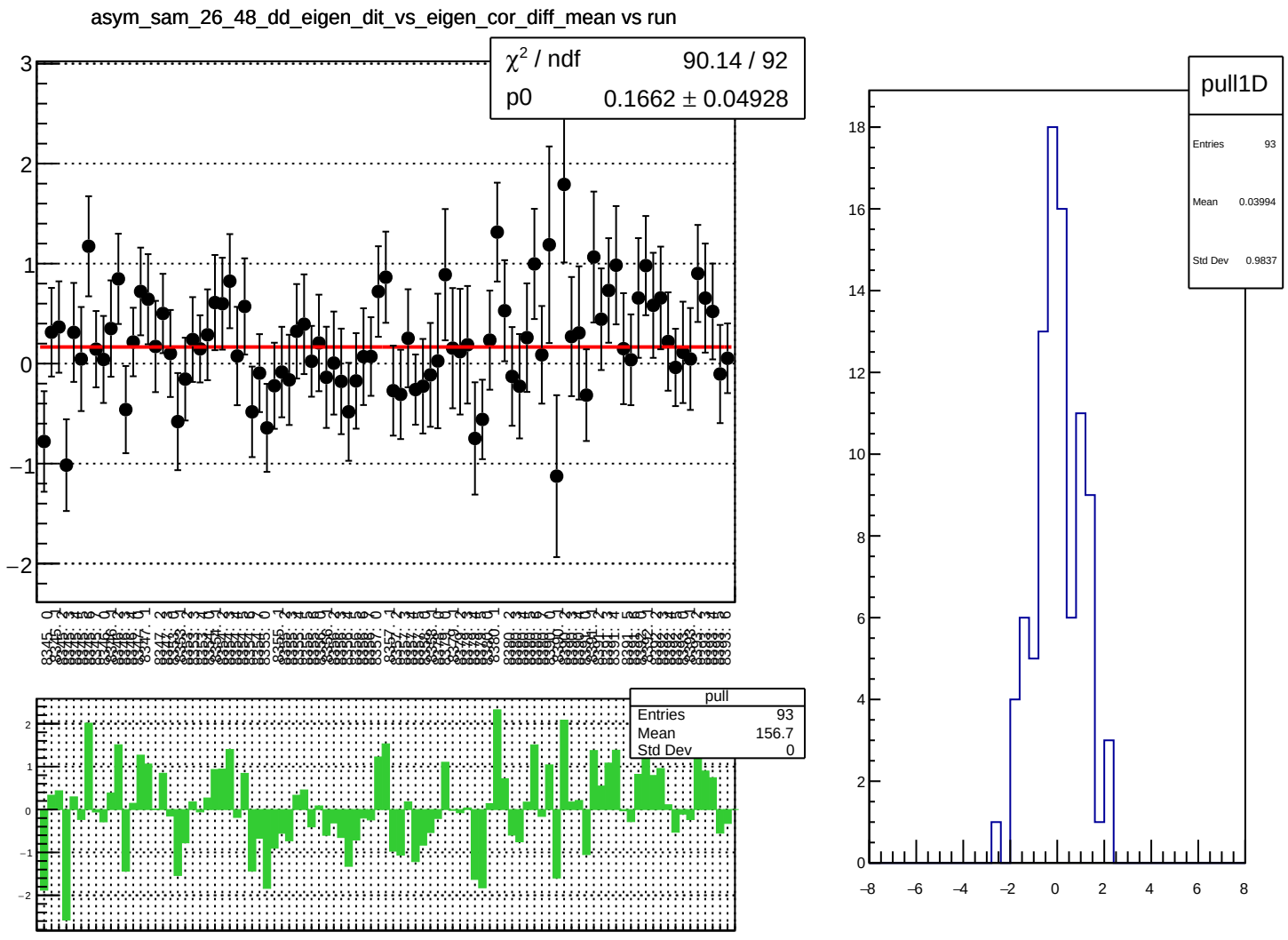

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.713e+04 / 92
p0 46.64 ± 0.03485
90
80
70
60
50
40

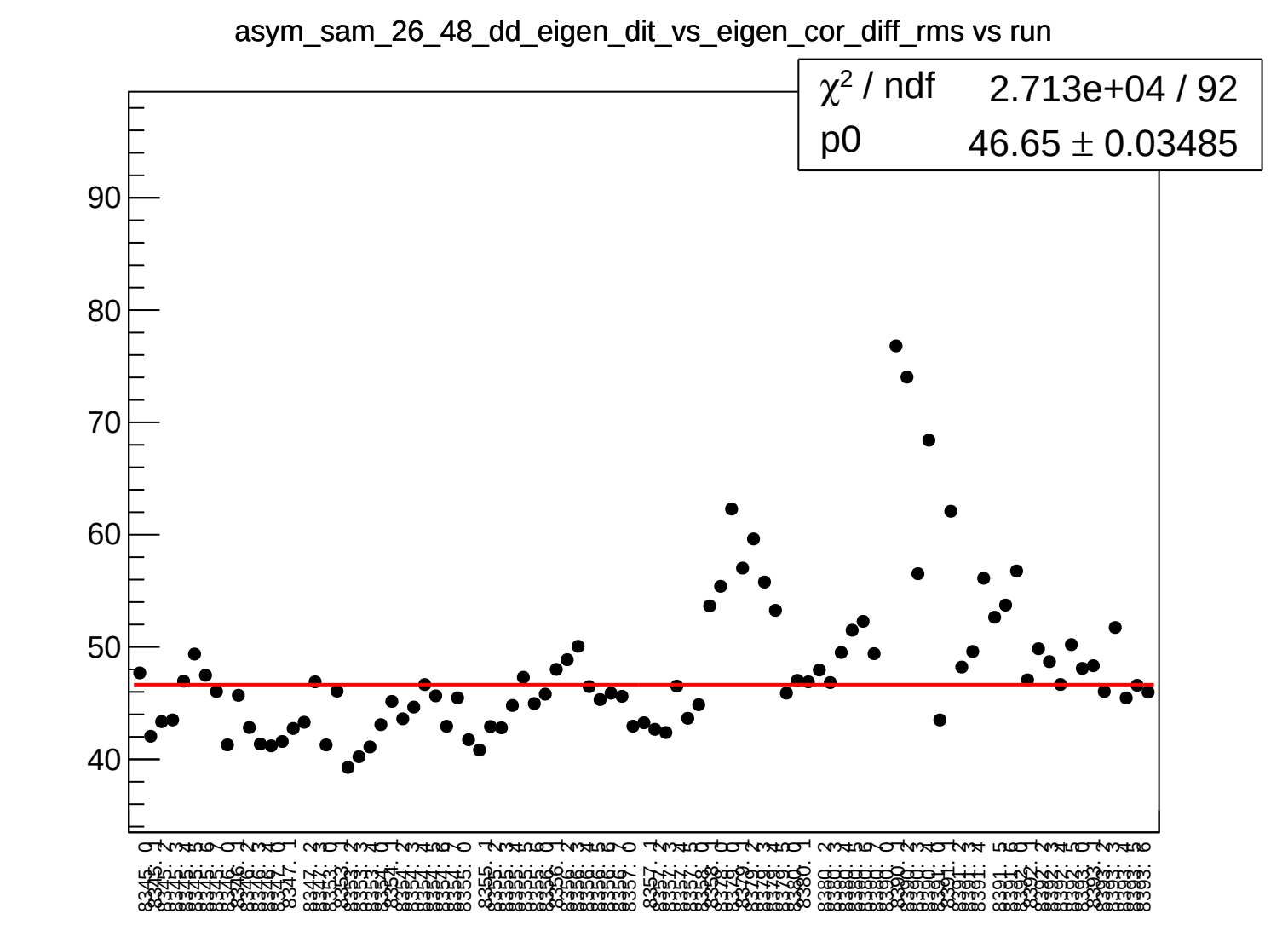

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 97.59 / 92
p0 −2.355e−07 ± 2.395e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 93
Mean −207.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.02916
Std Dev 1.024
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

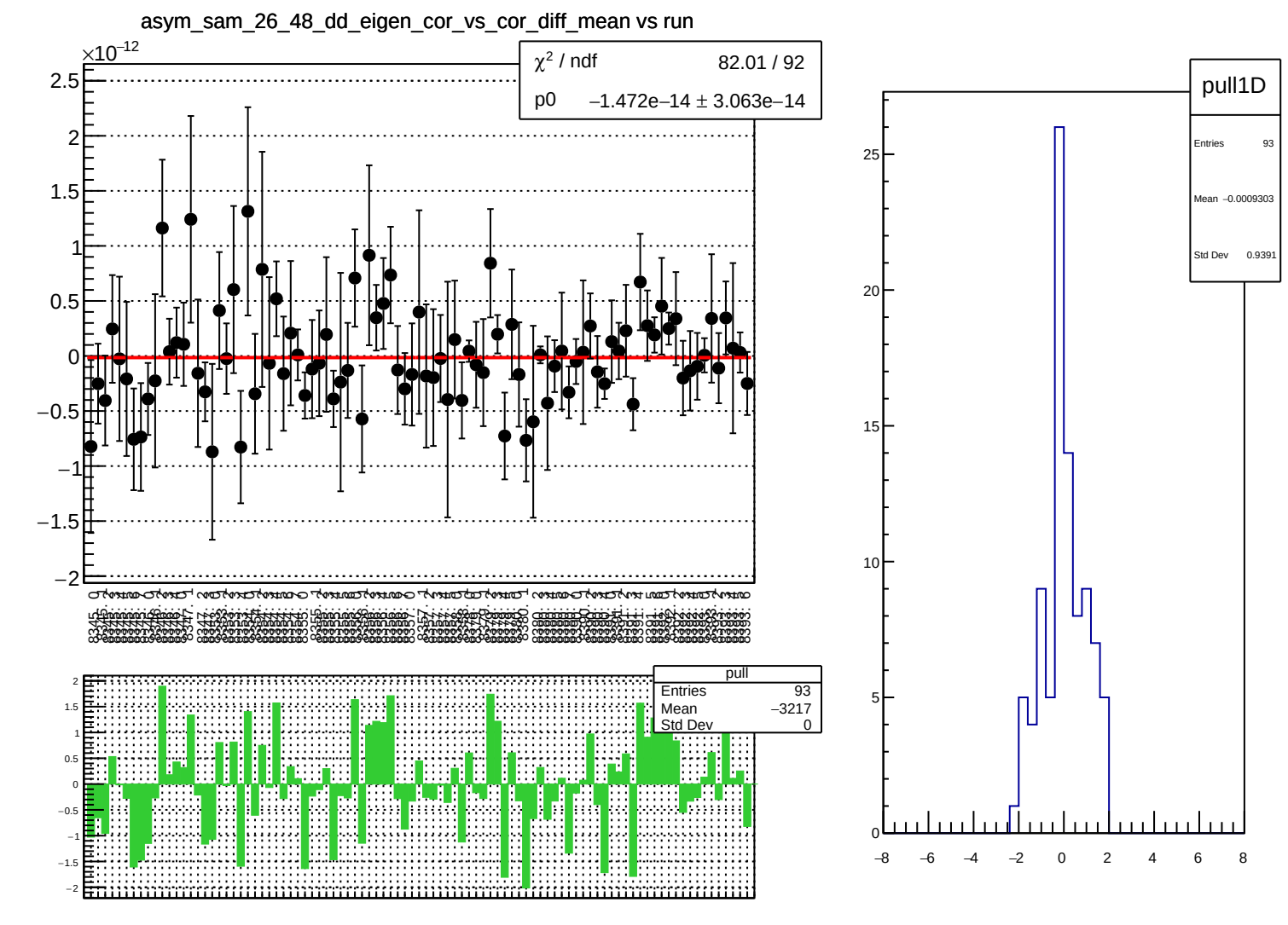

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.461e+05 / 92
p0 0.00219 ± 1.693e−06
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012

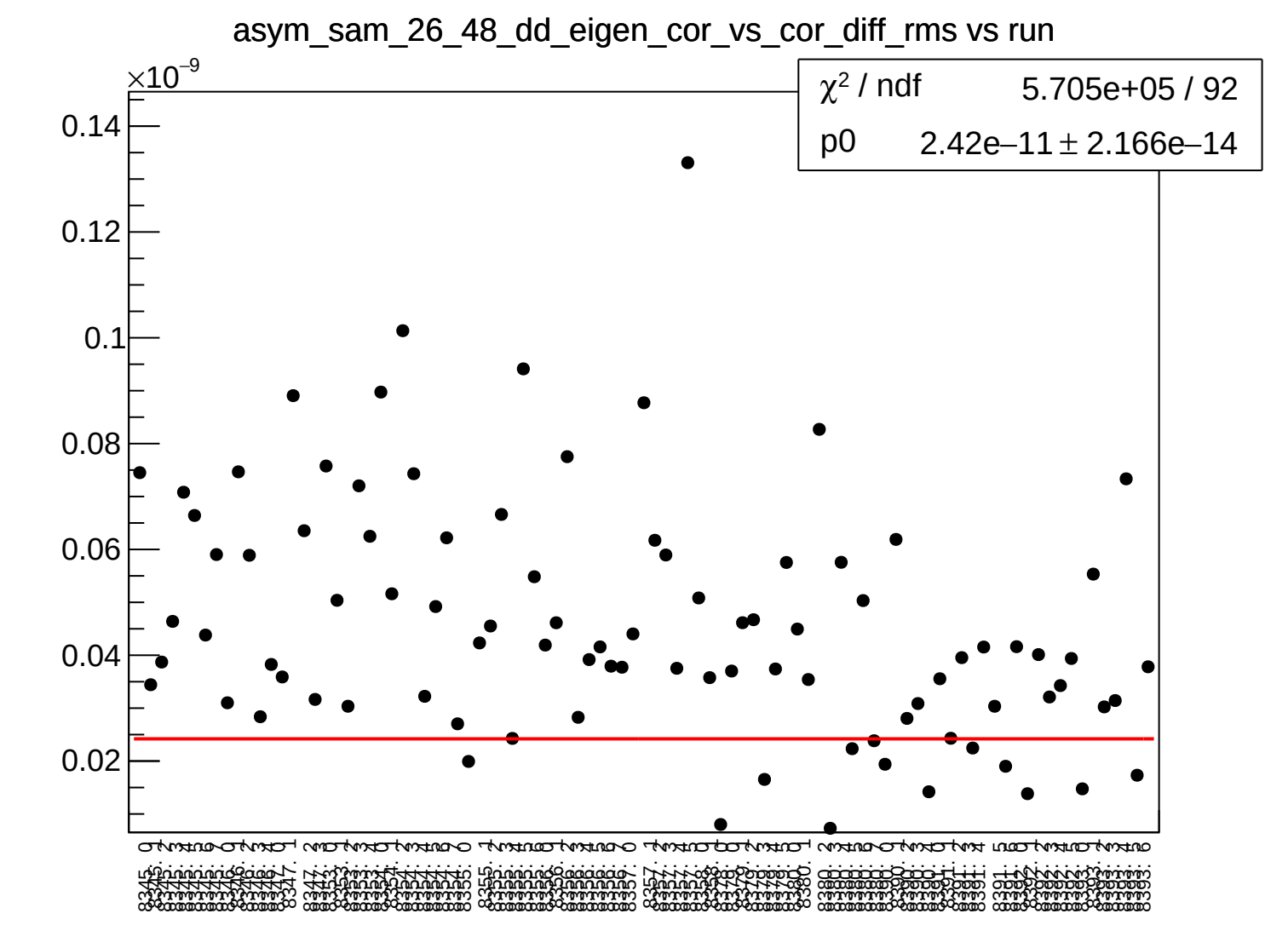

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.14 / 92
p0 0.1662 ± 0.04928
pull
Entries 93
Mean 156.7
Std Dev 0
pull1D
Entries 93
Mean 0.03994
Std Dev 0.9837

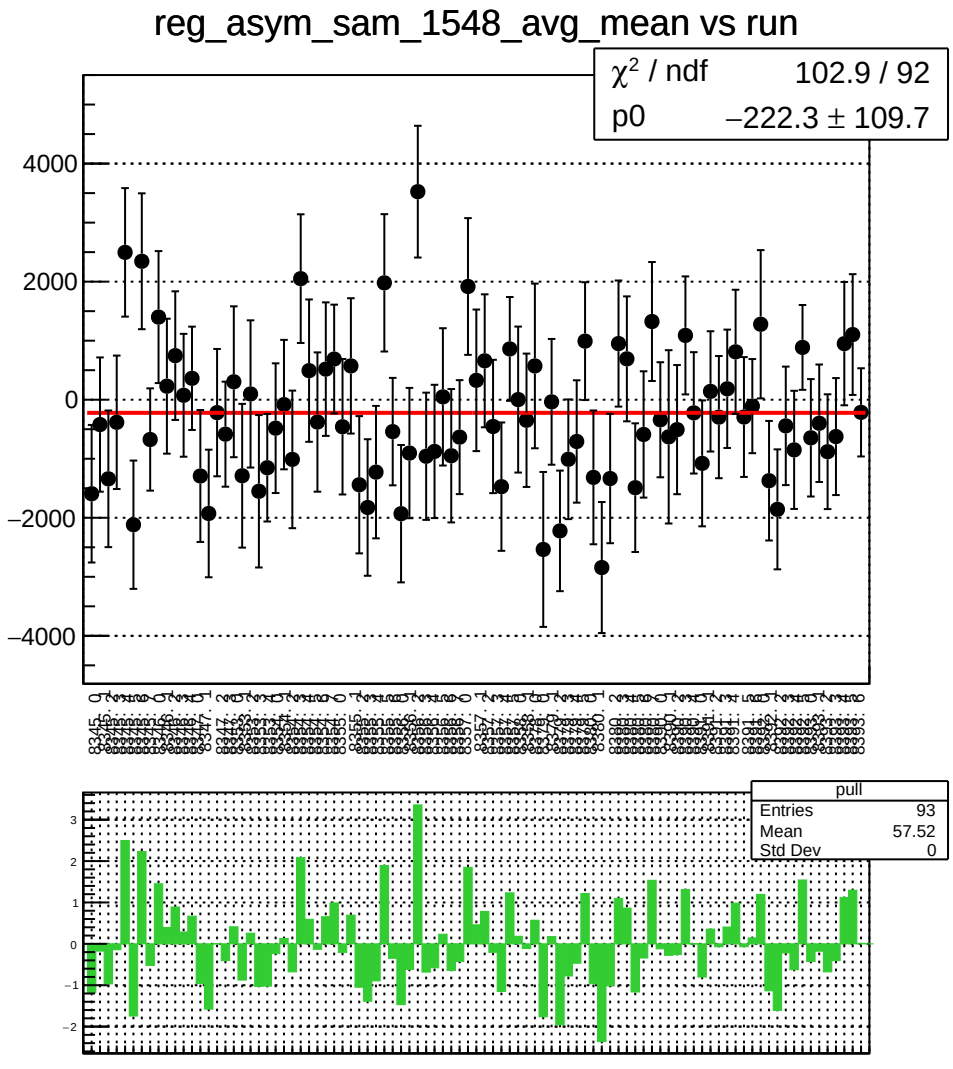

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.713e+04 / 92
p0 46.65 ± 0.03485
90
80
70
60
50
40

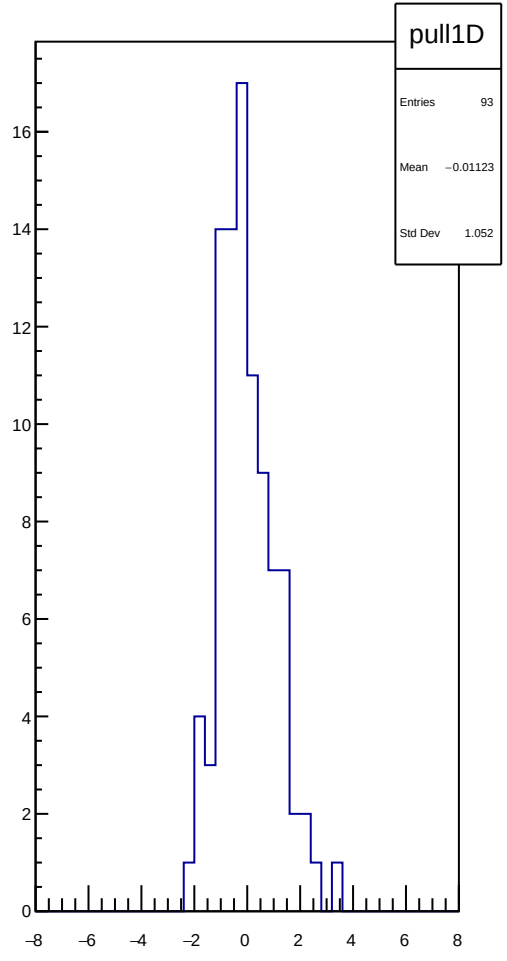

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.14 / 92
p0 0.1662 ± 0.04928
pull
Entries 93
Mean 156.7
Std Dev 0
pull1D
Entries 93
Mean 0.03994
Std Dev 0.9837

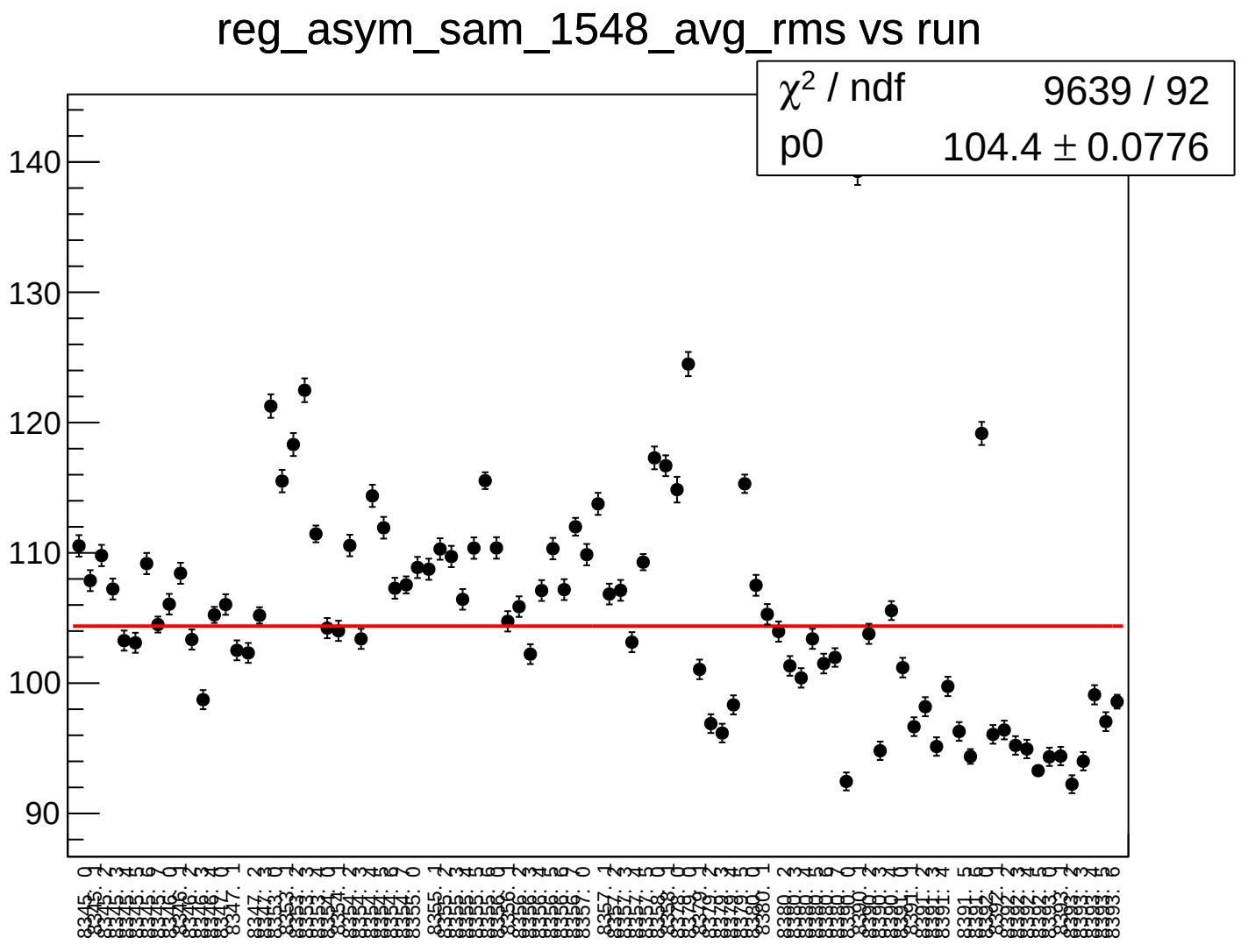

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.713e+04 / 92
p0 46.65 ± 0.03485
90
80
70
60
50
40

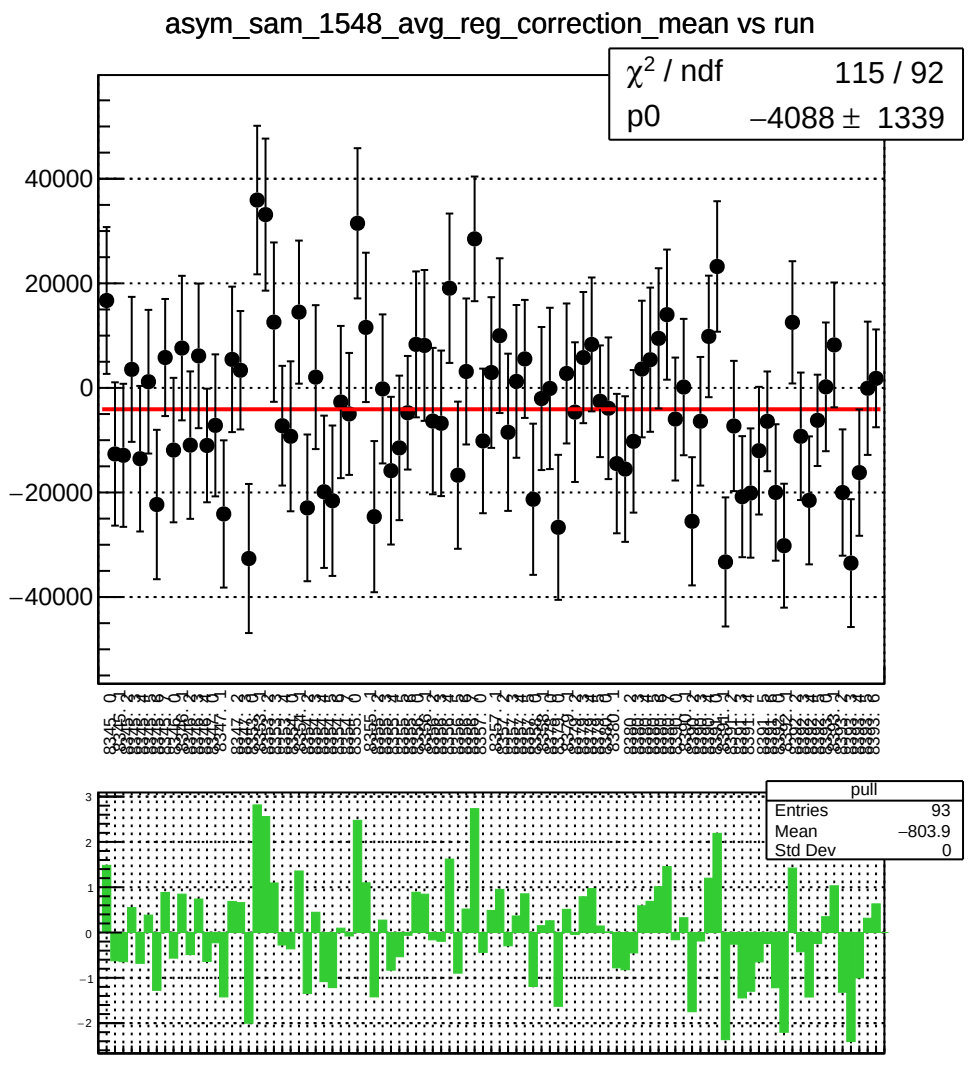

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 82.01 / 92
p0 −1.472e−14 ± 3.063e−14
pull
Entries 93
Mean −3217
Std Dev 0
pull1D
Entries 93
Mean −0.0009303
Std Dev 0.9391

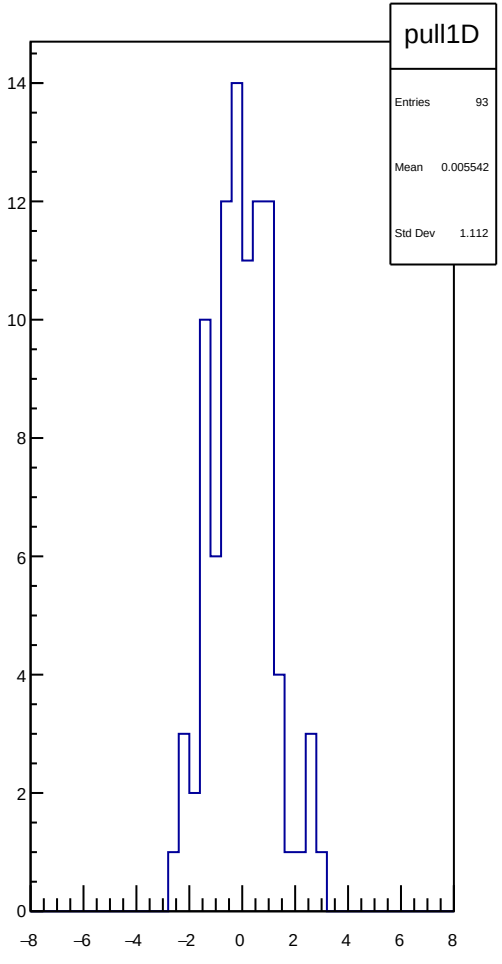

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.705e+05 / 92
p0 2.42e−11 ± 2.166e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

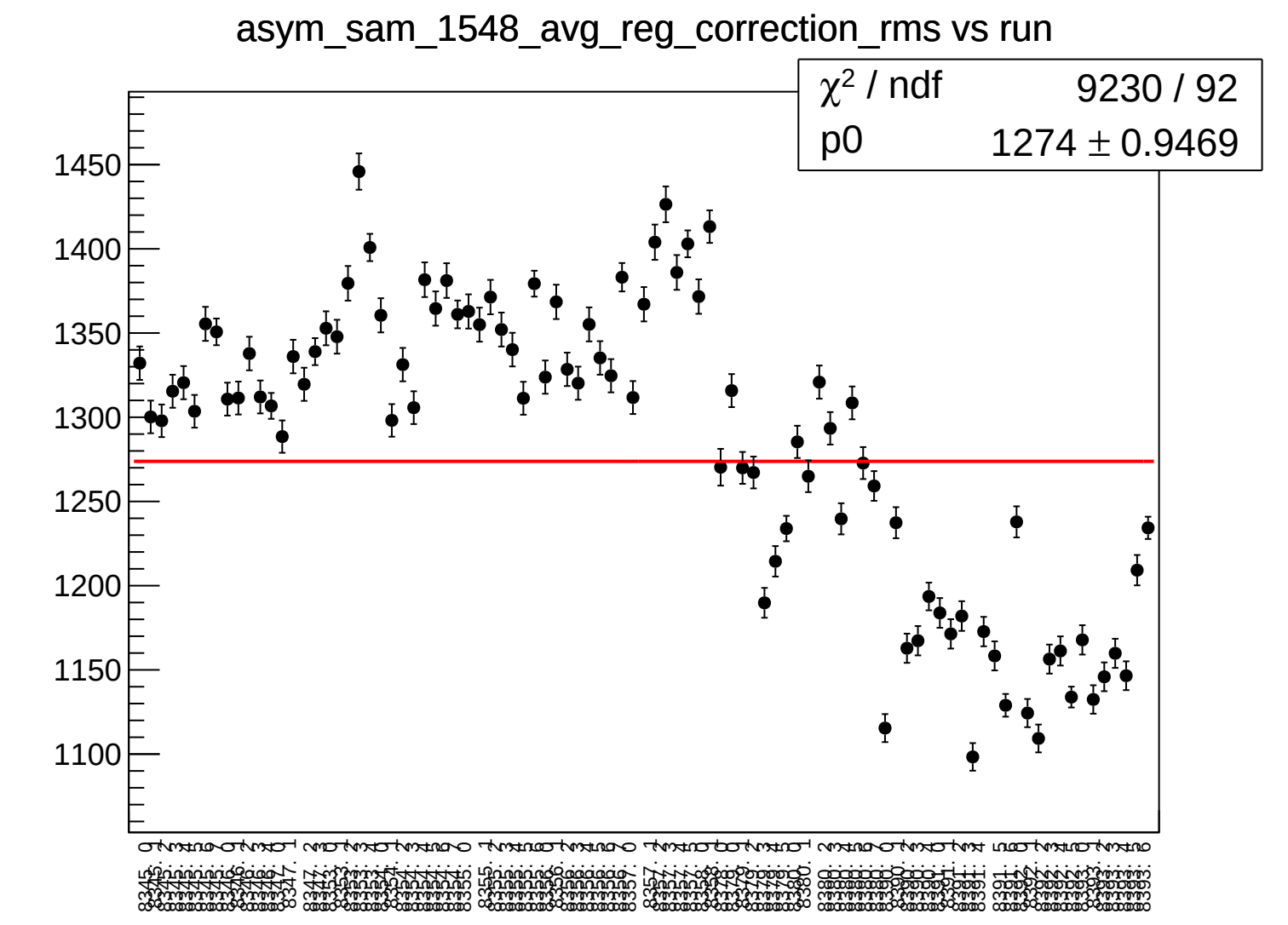

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 102.9 / 92
p0 −222.3 ± 109.7
4000
2000
0
−2000
−4000
pull
Entries 93
Mean 57.52
Std Dev 0
3
2
1
0
−1
−2

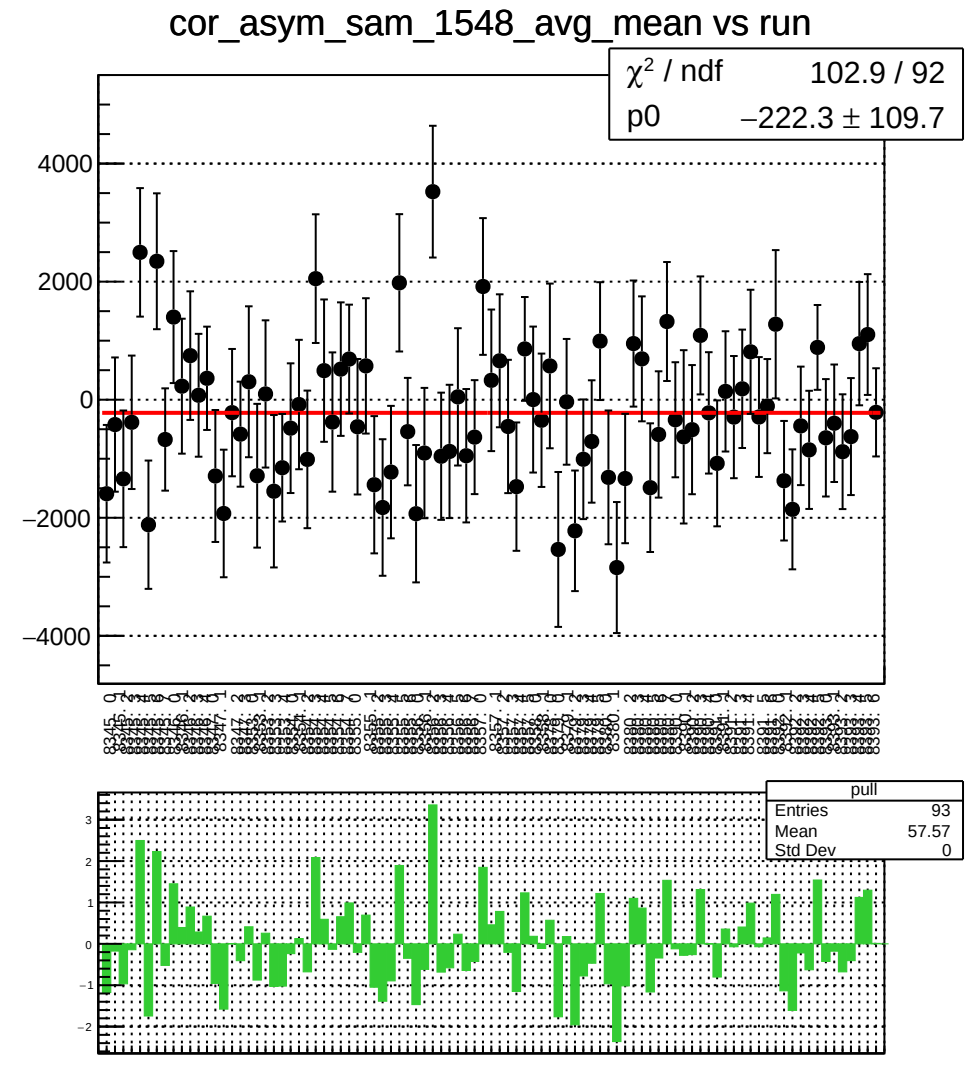

pull1D
Entries 93
Mean −0.01123
Std Dev 1.052
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

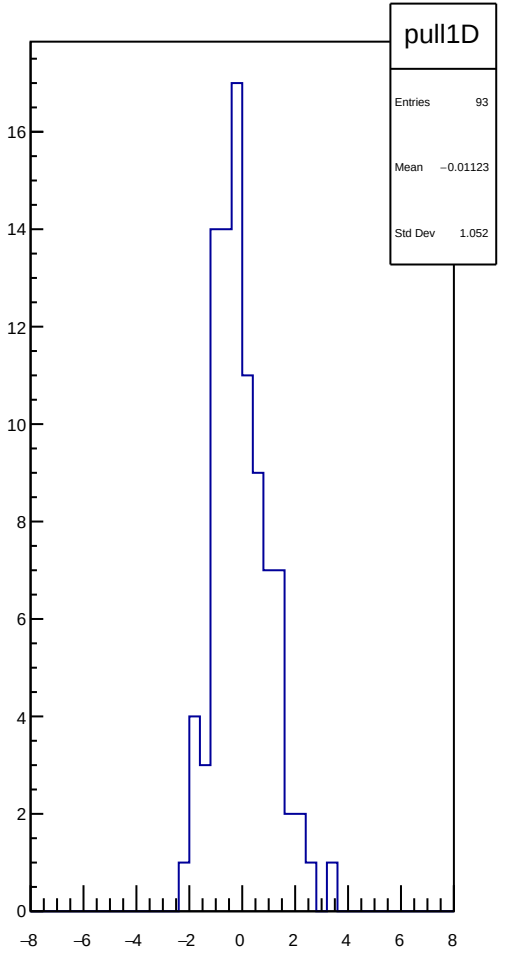

reg_asym_sam_1548_avg_rms vs run
χ² / ndf 9639 / 92
p0 104.4 ± 0.0776
140
130
120
110
100
90

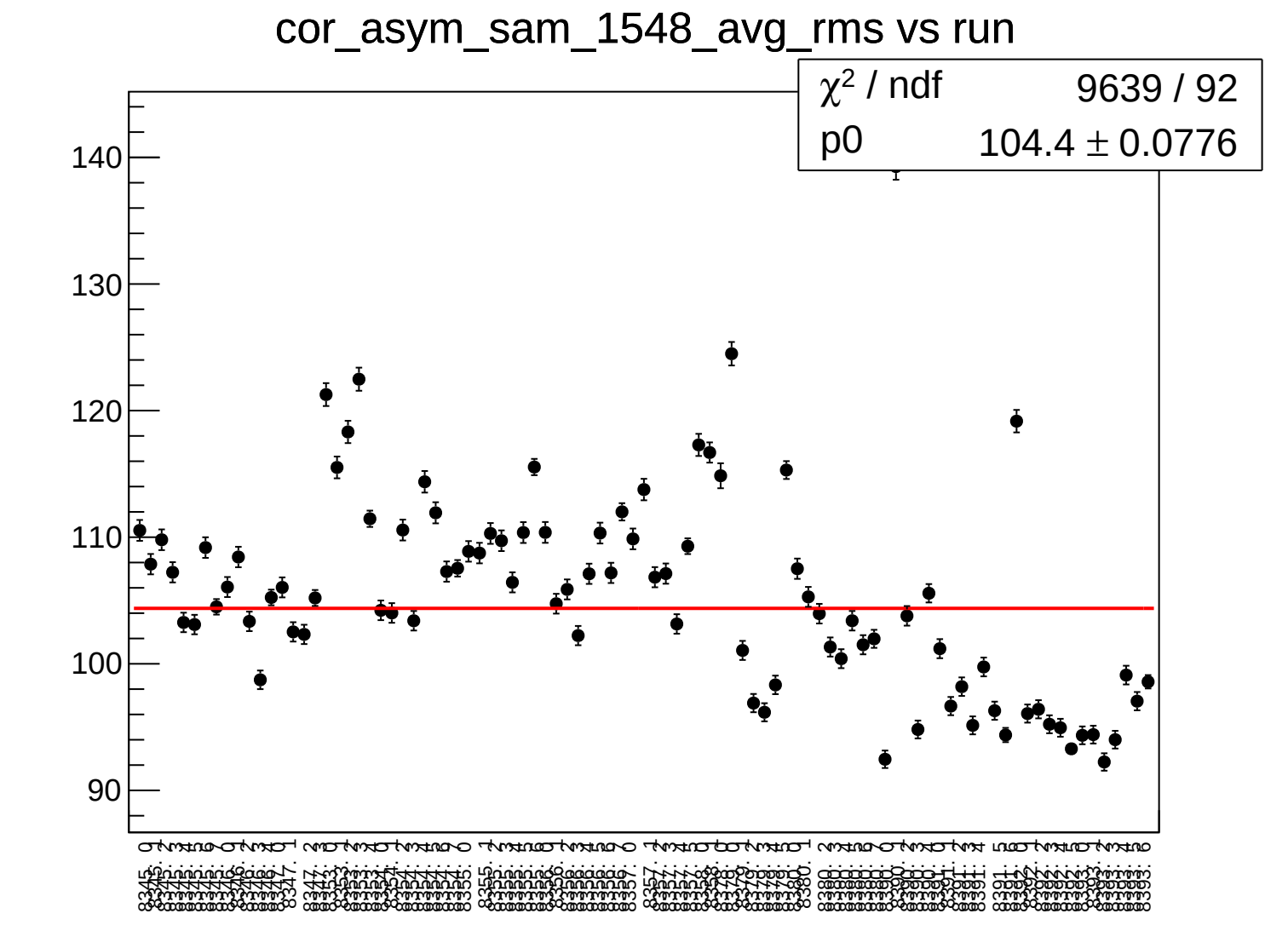

asym_sam_1548_avg_reg_correction_mean vs run
χ² / ndf 115 / 92
p0 −4088 ± 1339
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −803.9
Std Dev 0
3
2
1
0
−1
−2

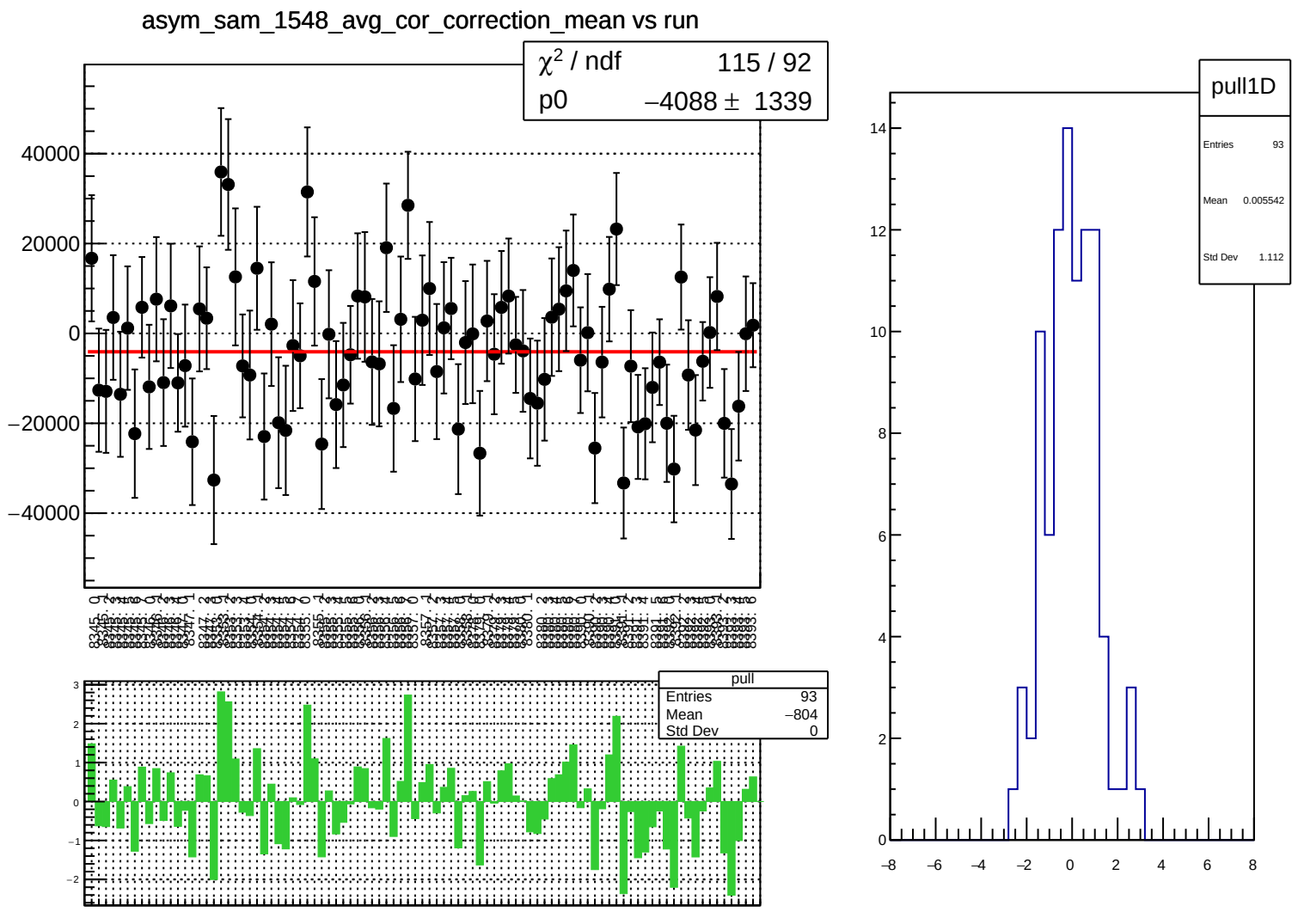

pull1D
Entries 93
Mean 0.005542
Std Dev 1.112
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

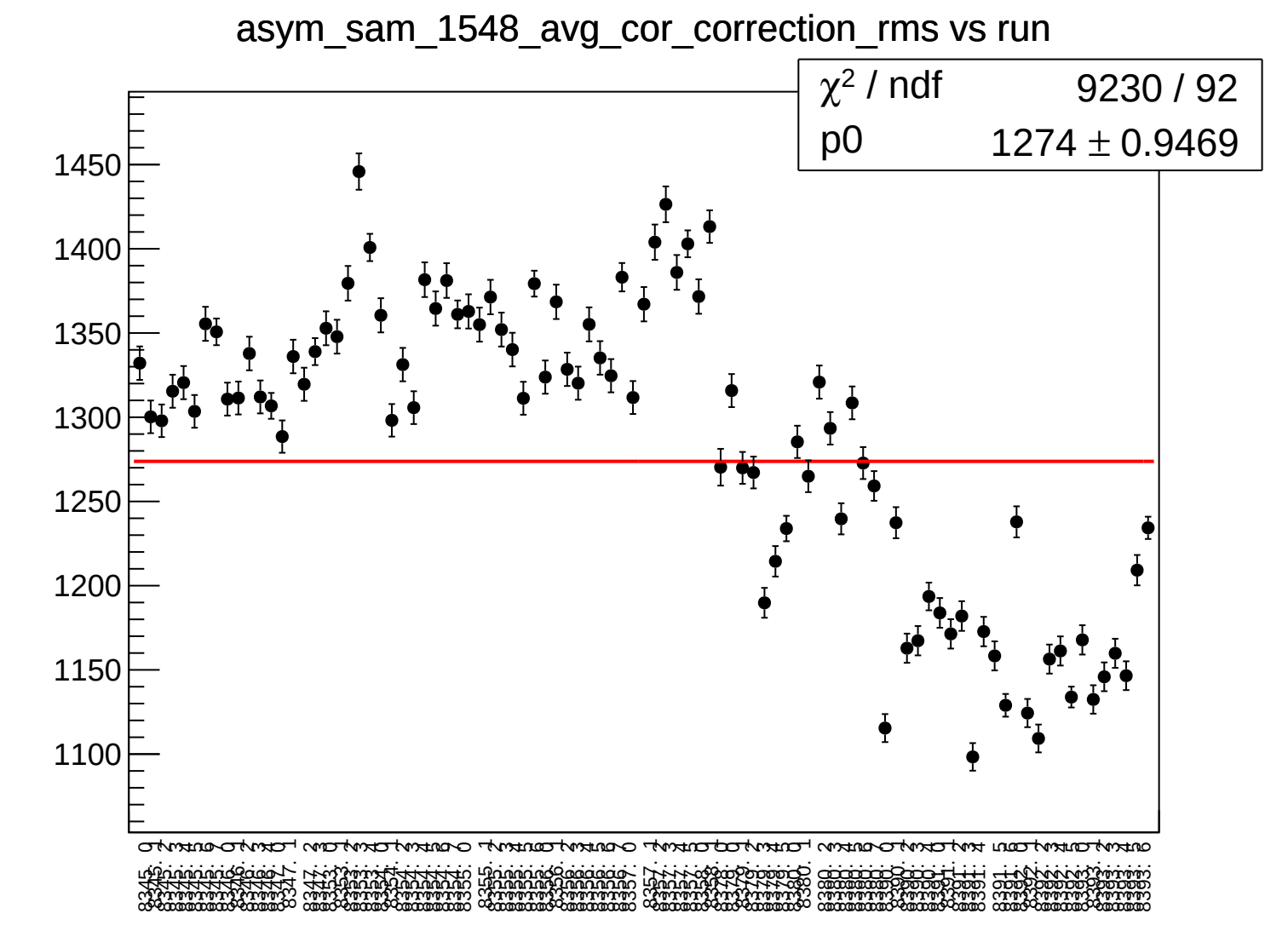

asym_sam_1548_avg_reg_correction_rms vs run
χ² / ndf 9230 / 92
p0 1274 ± 0.9469
1450
1400
1350
1300
1250
1200
1150
1100

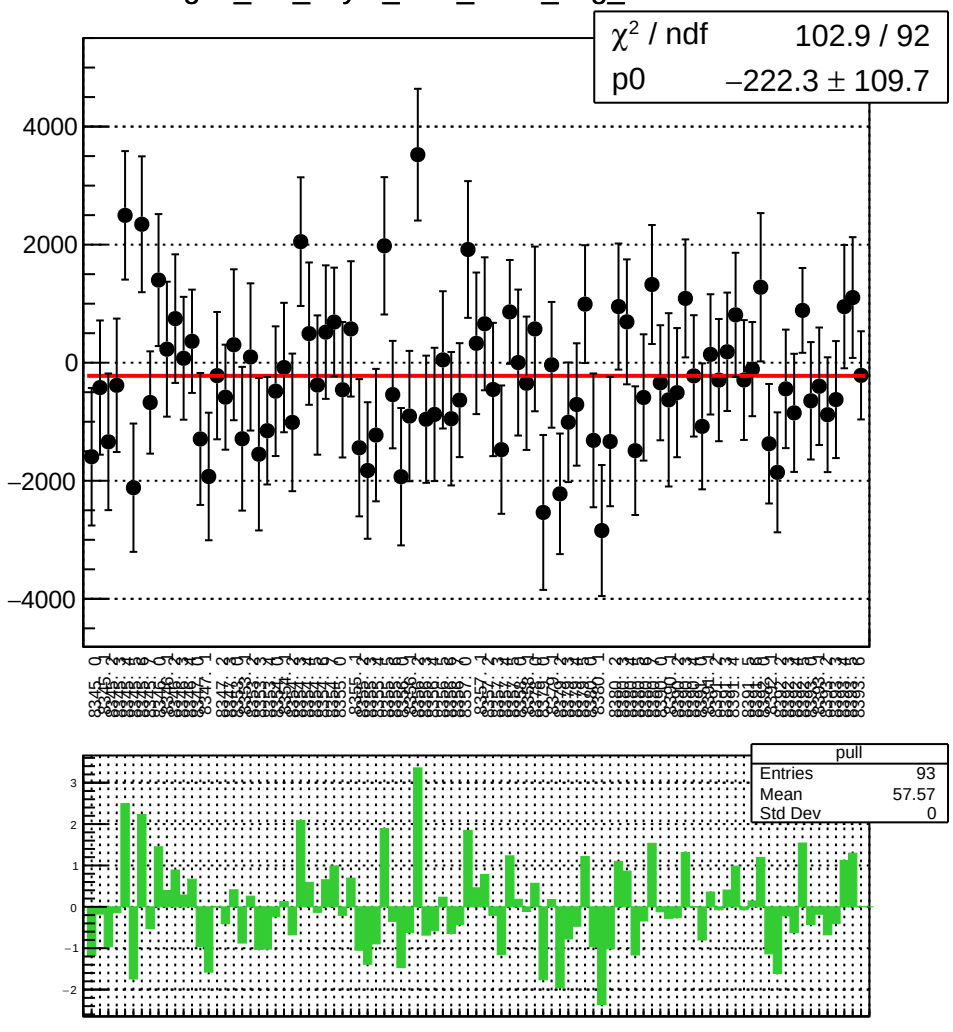

cor_asym_sam_1548_avg_mean vs run
χ² / ndf 102.9 / 92
p0 −222.3 ± 109.7
4000
2000
0
−2000
−4000
pull
Entries 93
Mean 57.57
Std Dev 0
3
2
1
0
−1
−2

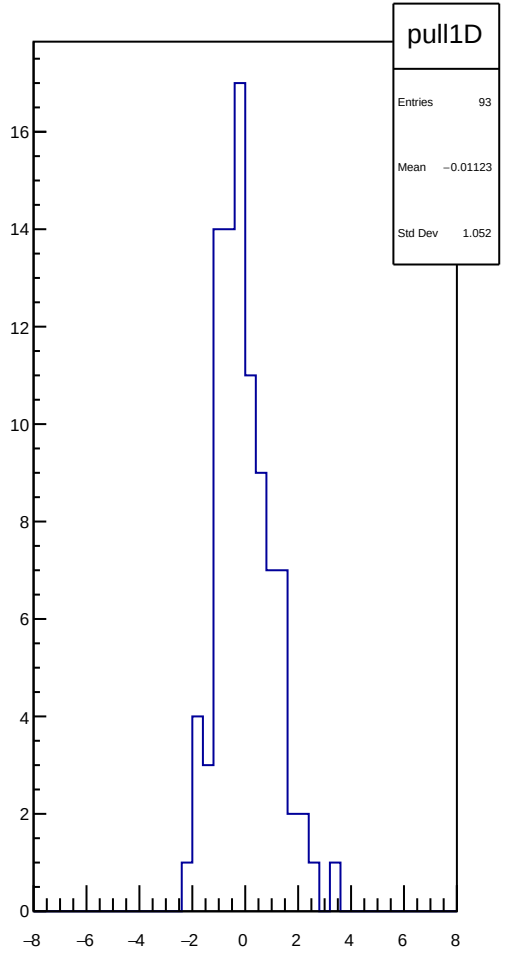

pull1D
Entries 93
Mean −0.01123
Std Dev 1.052
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

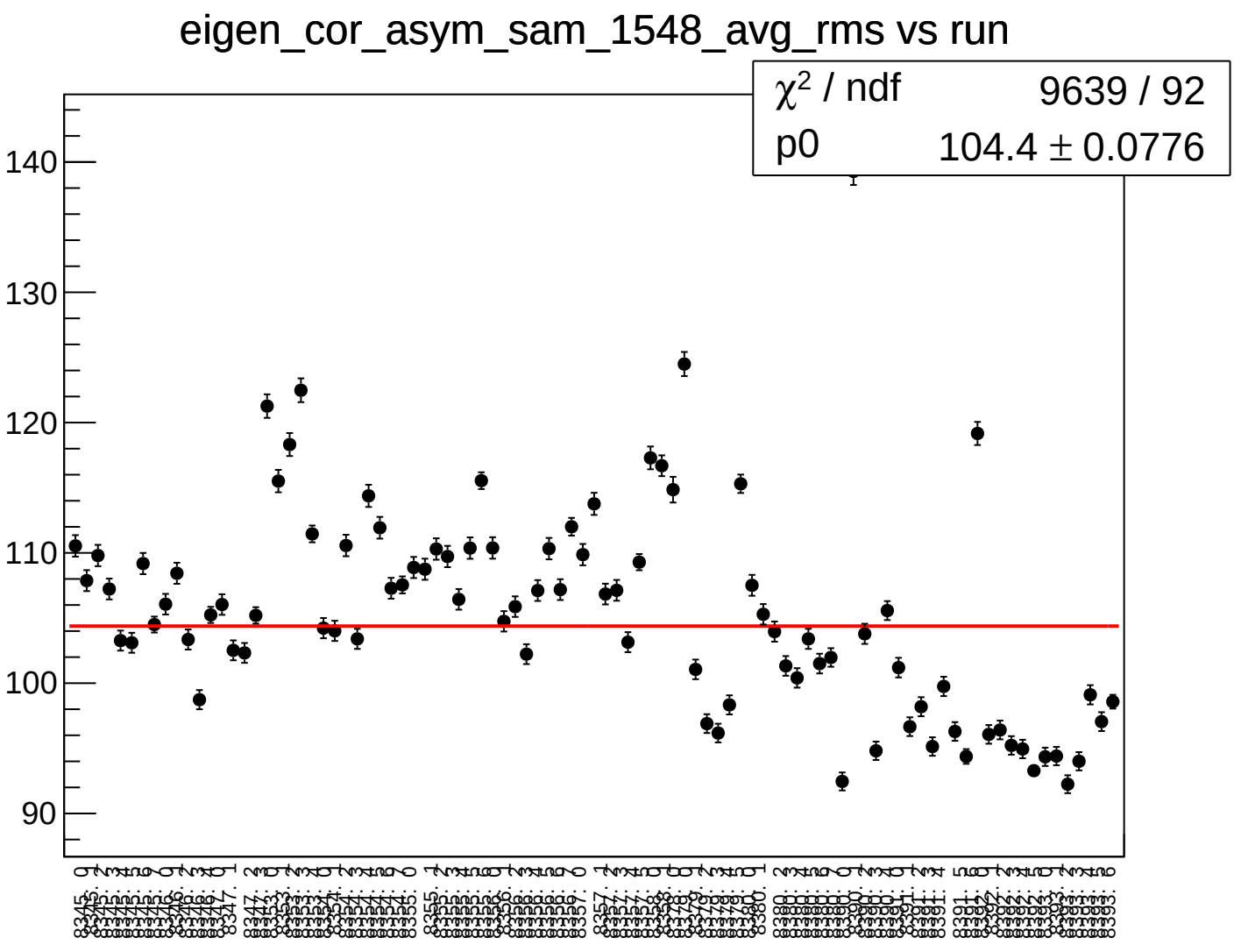

cor_asym_sam_1548_avg_rms vs run
χ² / ndf 9639 / 92
p0 104.4 ± 0.0776
140
130
120
110
100
90

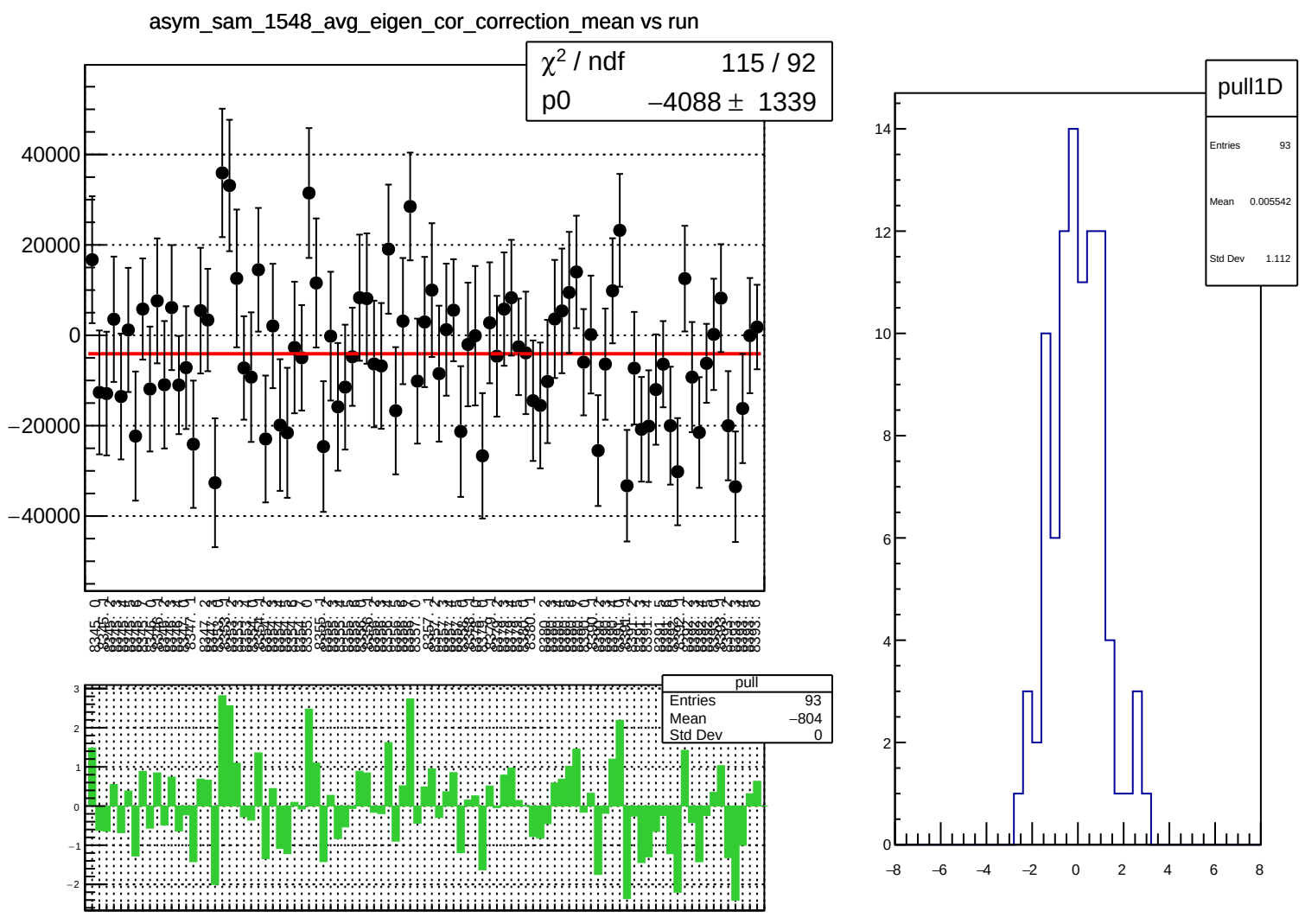

asym_sam_1548_avg_cor_correction_mean vs run
χ² / ndf 115 / 92
p0 −4088 ± 1339
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −804
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.005542
Std Dev 1.112
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

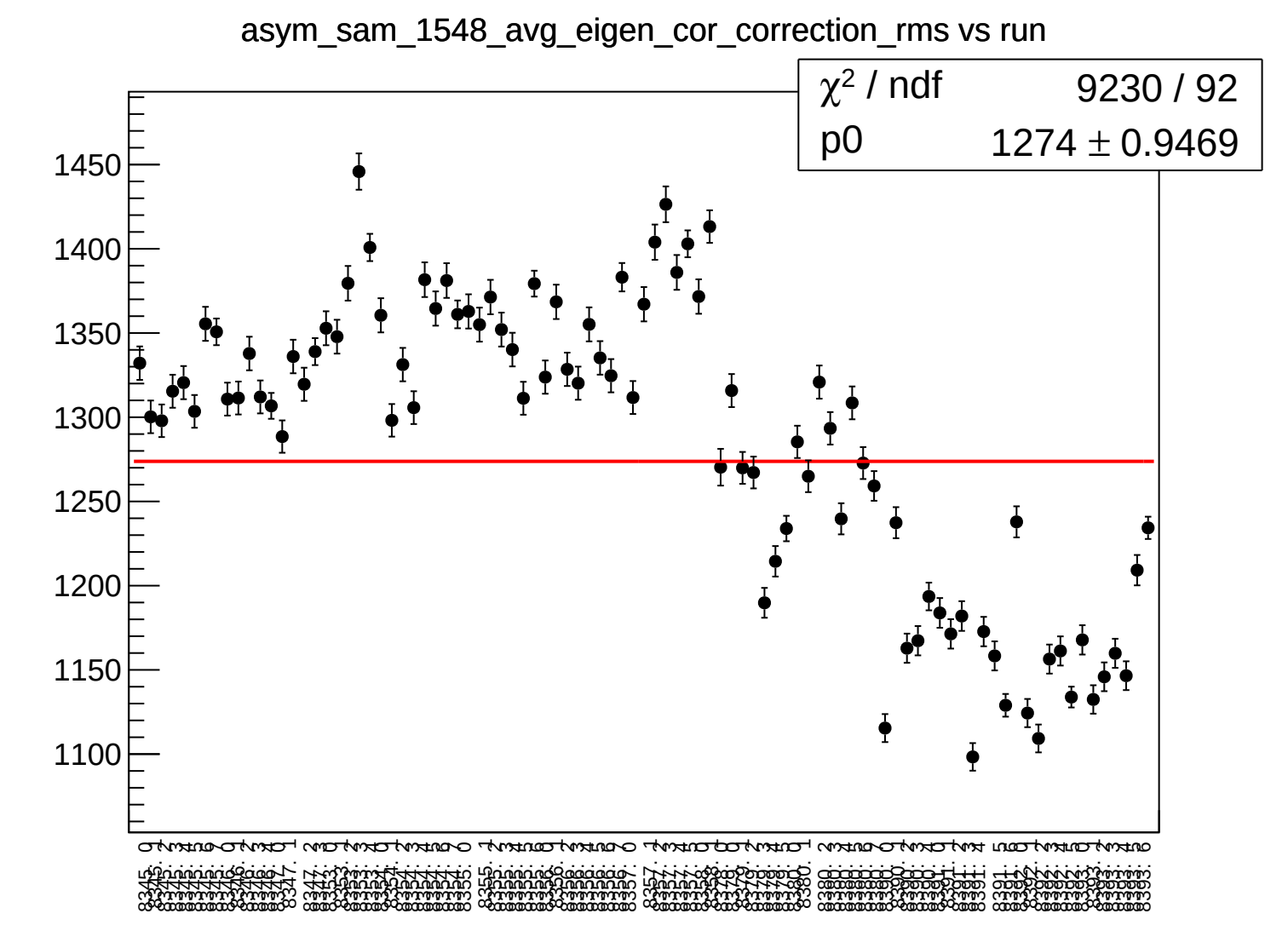

asym_sam_1548_avg_cor_correction_rms vs run
χ² / ndf 9230 / 92
p0 1274 ± 0.9469
1450
1400
1350
1300
1250
1200
1150
1100

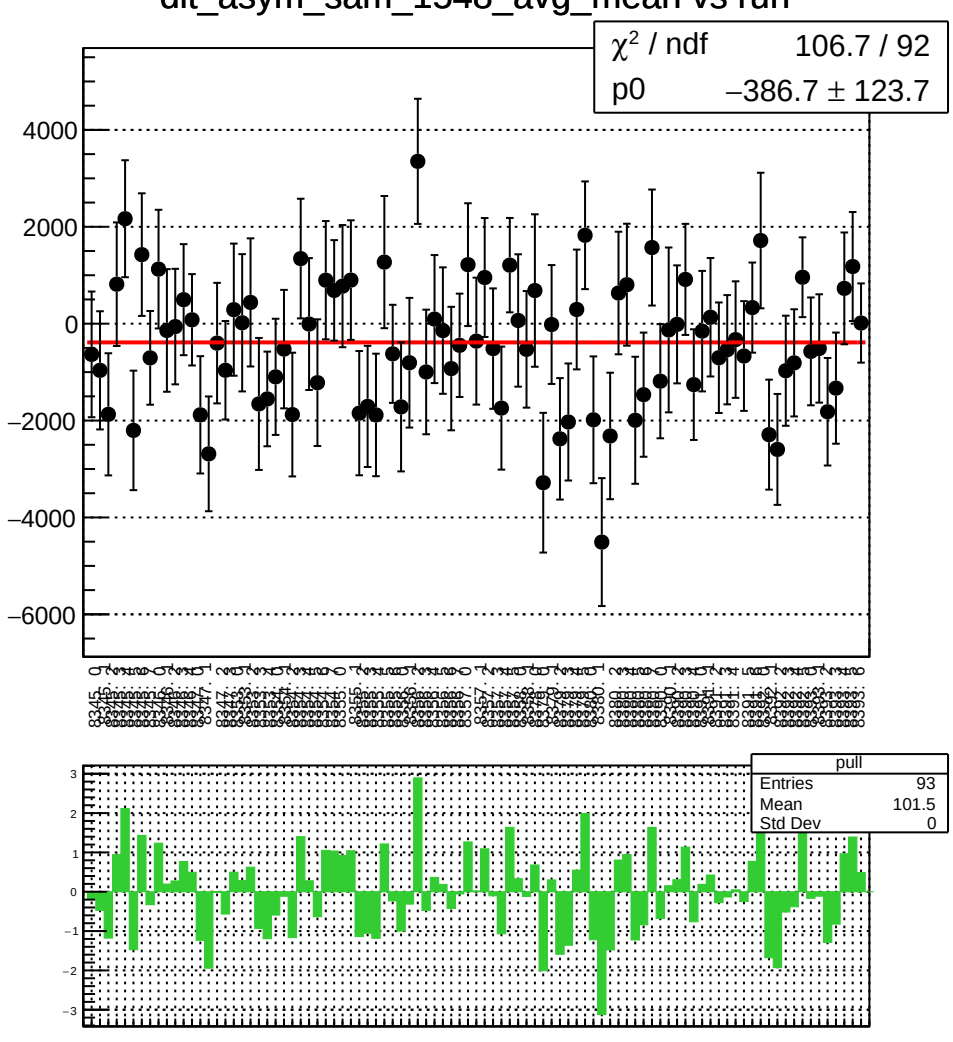

eigen_cor_asym_sam_1548_avg_mean vs run
χ² / ndf 102.9 / 92
p0 −222.3 ± 109.7
4000
2000
0
−2000
−4000
pull
Entries 93
Mean 57.57
Std Dev 0
3
2
1
0
−1
−2

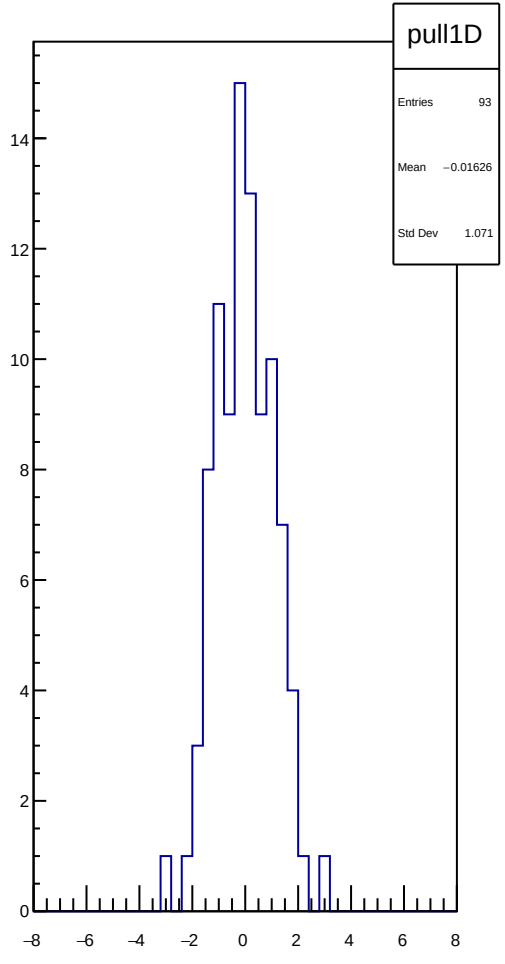

pull1D
Entries 93
Mean −0.01123
Std Dev 1.052
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

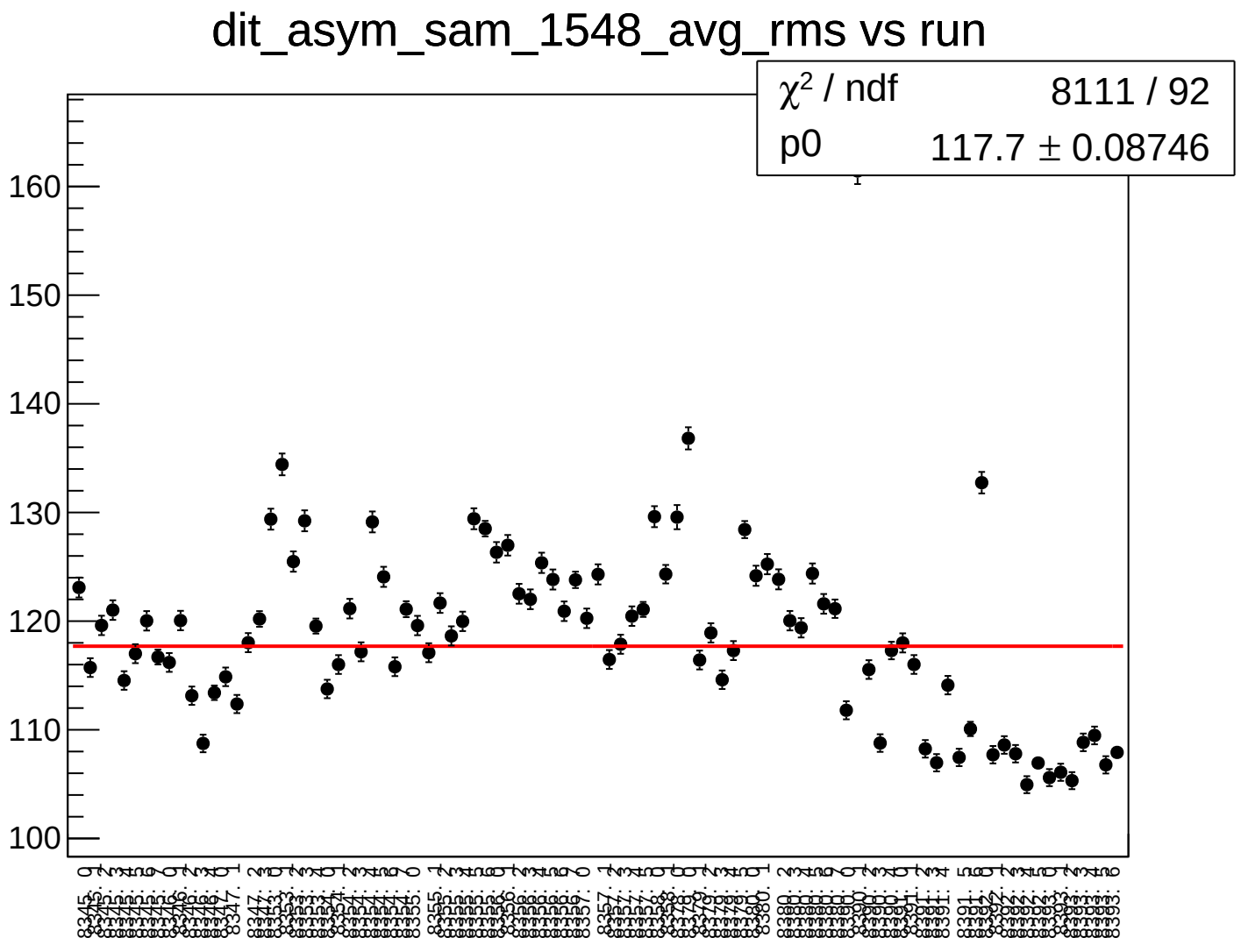

eigen_cor_asym_sam_1548_avg_rms vs run
χ² / ndf 9639 / 92
p0 104.4 ± 0.0776
140
130
120
110
100
90

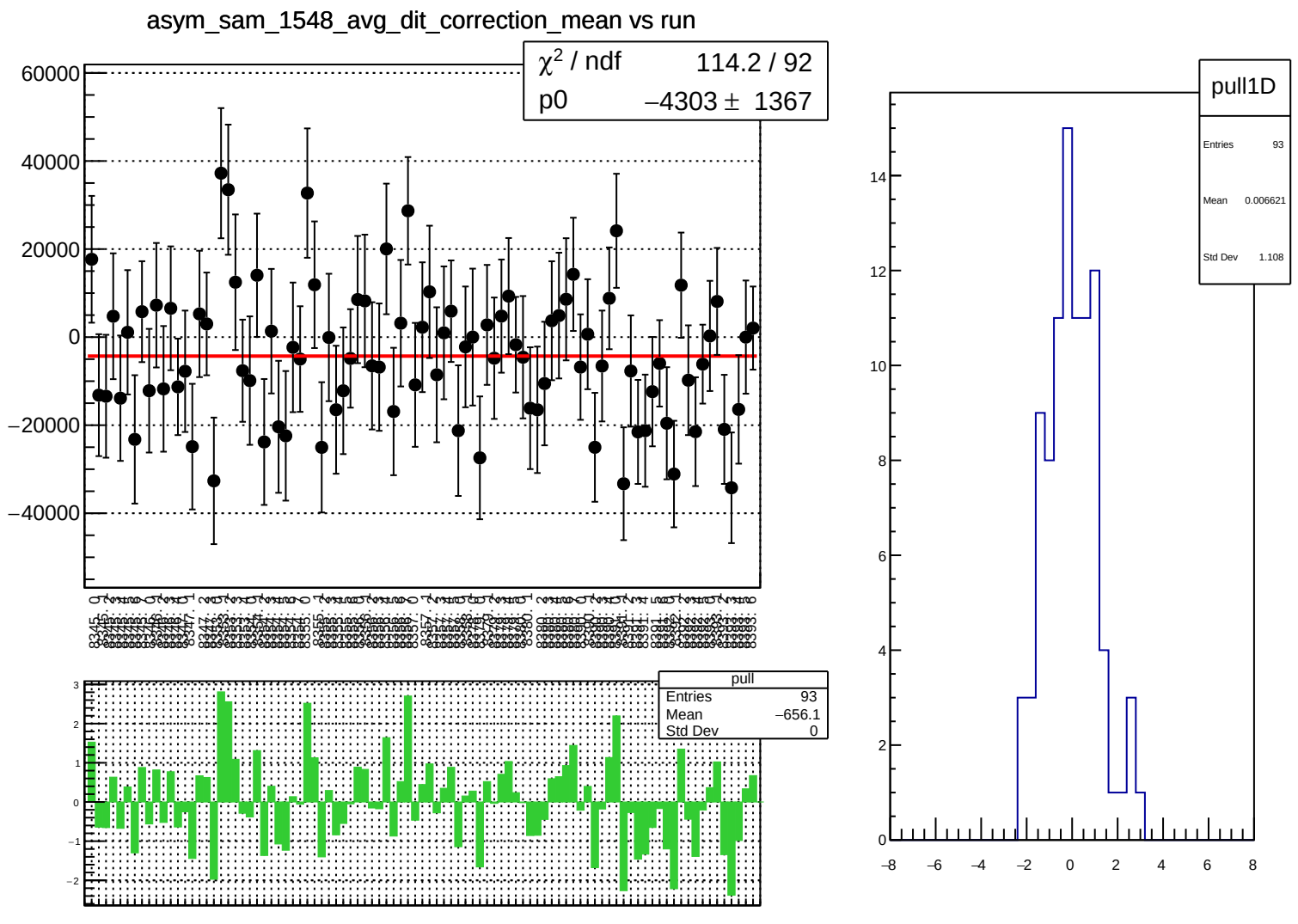

asym_sam_1548_avg_eigen_cor_correction_mean vs run
χ² / ndf 115 / 92
p0 −4088 ± 1339
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −804
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.005542
Std Dev 1.112
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

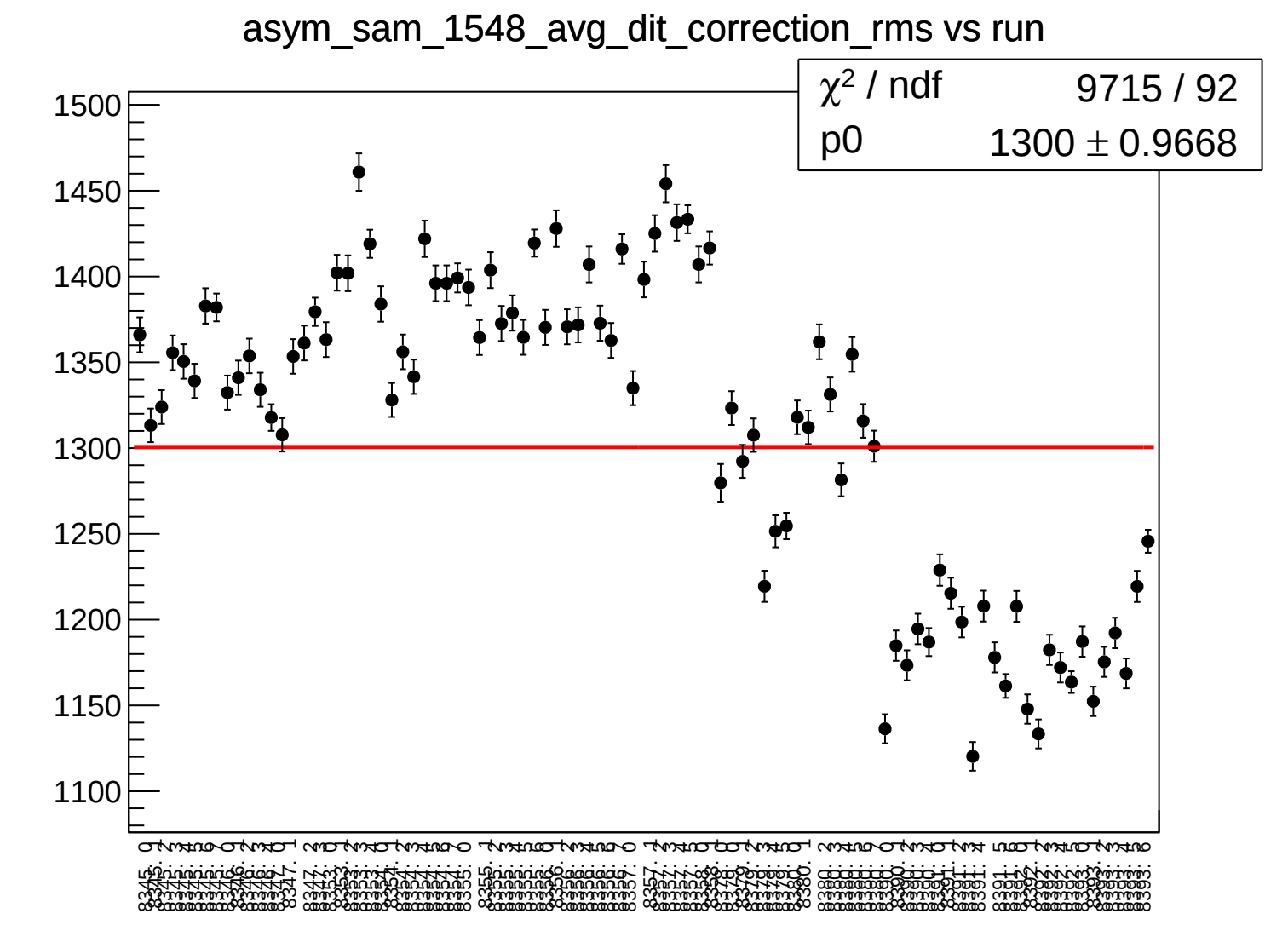

asym_sam_1548_avg_eigen_cor_correction_rms vs run
χ² / ndf 9230 / 92
p0 1274 ± 0.9469
1450
1400
1350
1300
1250
1200
1150
1100

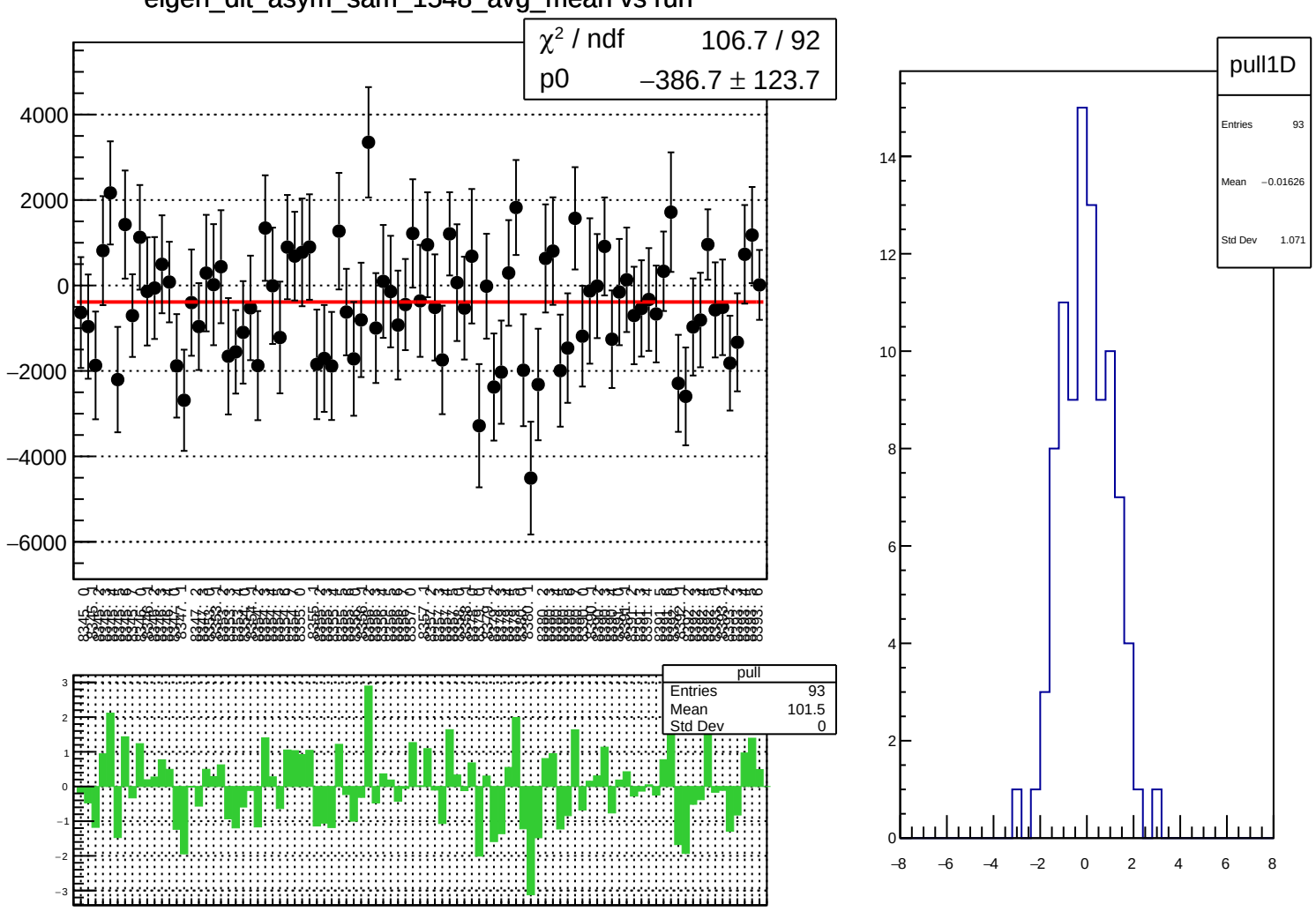

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 106.7 / 92
p0 −386.7 ± 123.7
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean 101.5
Std Dev 0
3
2
1
0
−1
−2
−3

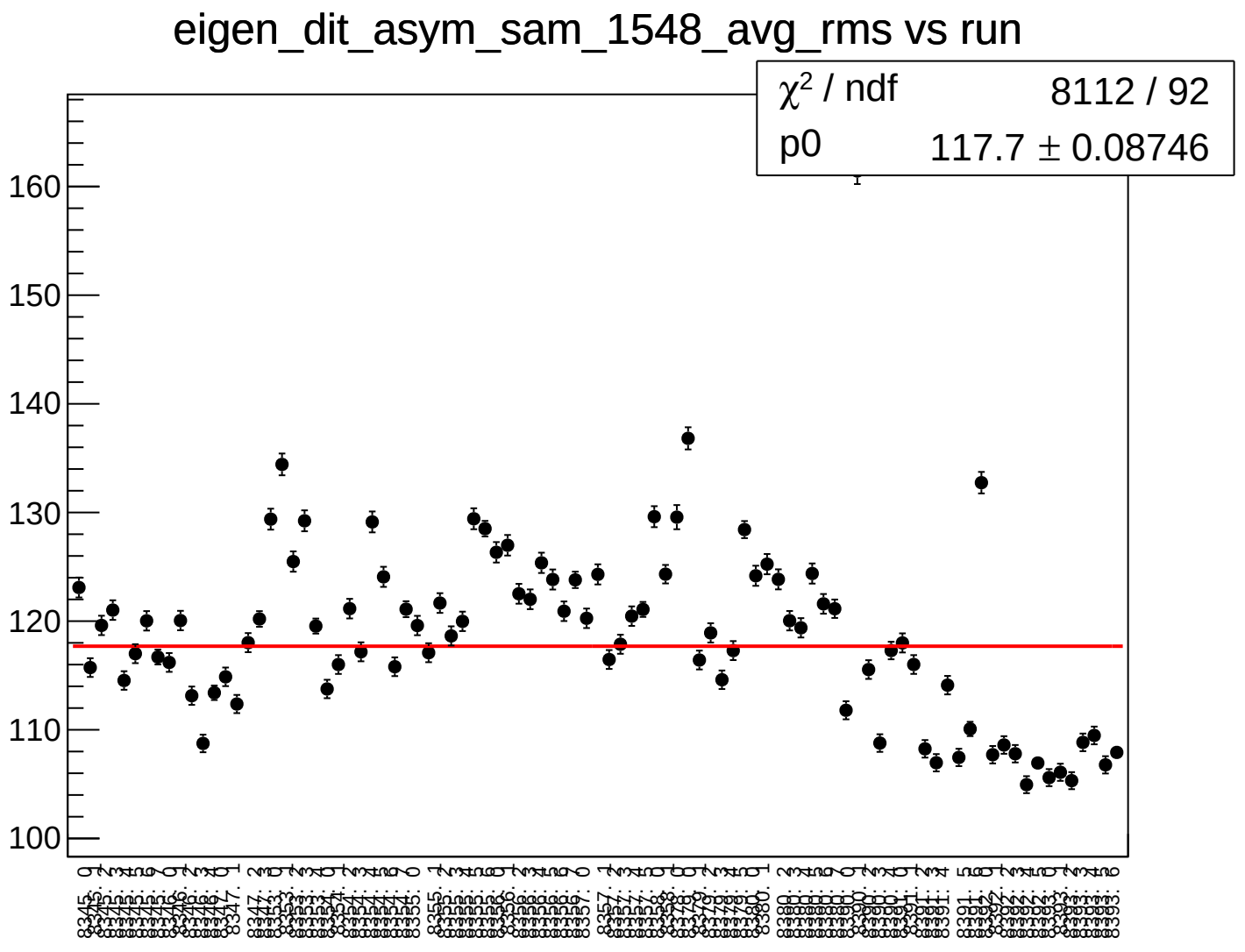

pull1D
Entries 93
Mean −0.01626
Std Dev 1.071
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

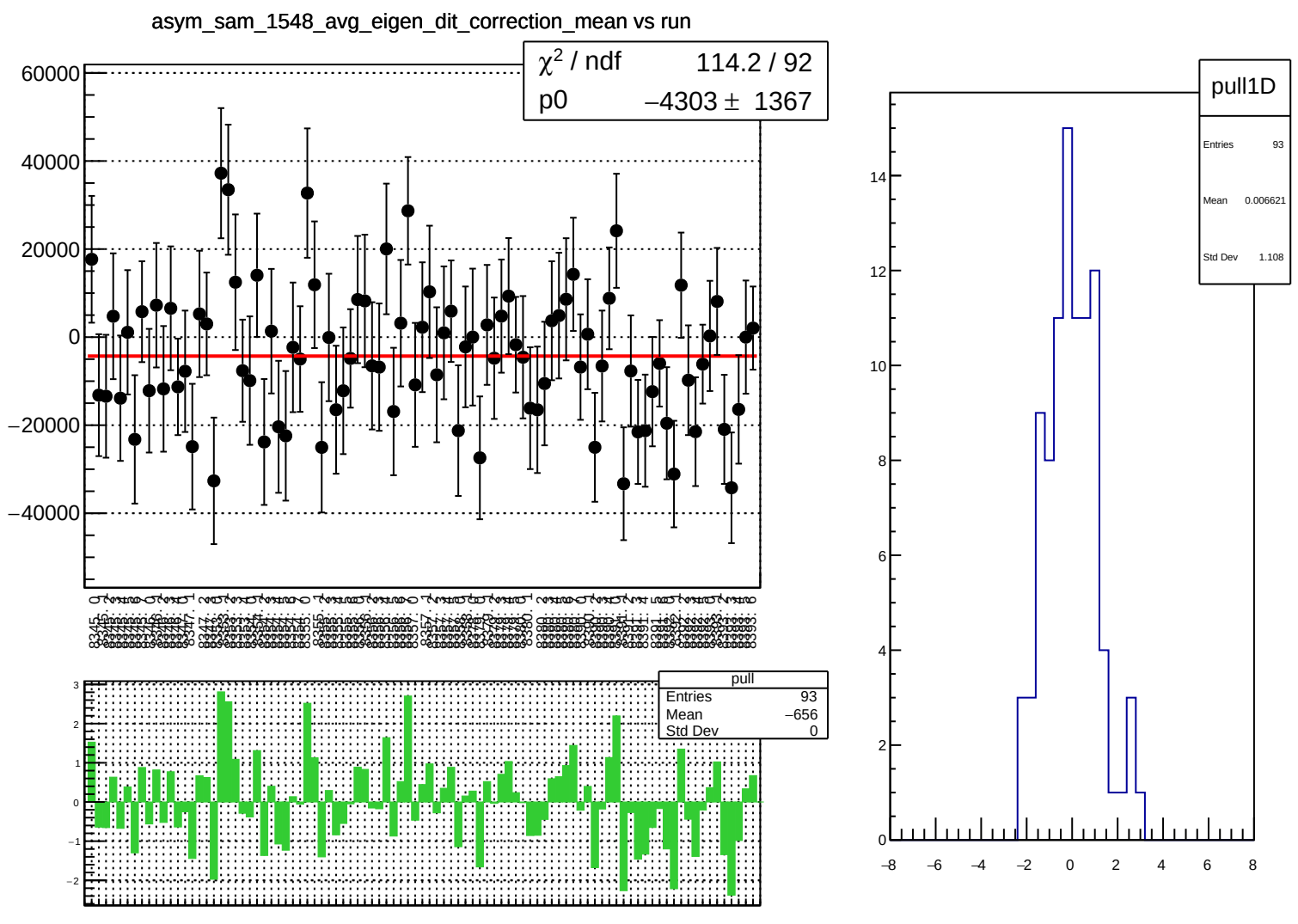

dit_asym_sam_1548_avg_rms vs run
χ² / ndf 8111 / 92
p0 117.7 ± 0.08746
160
150
140
130
120
110
100

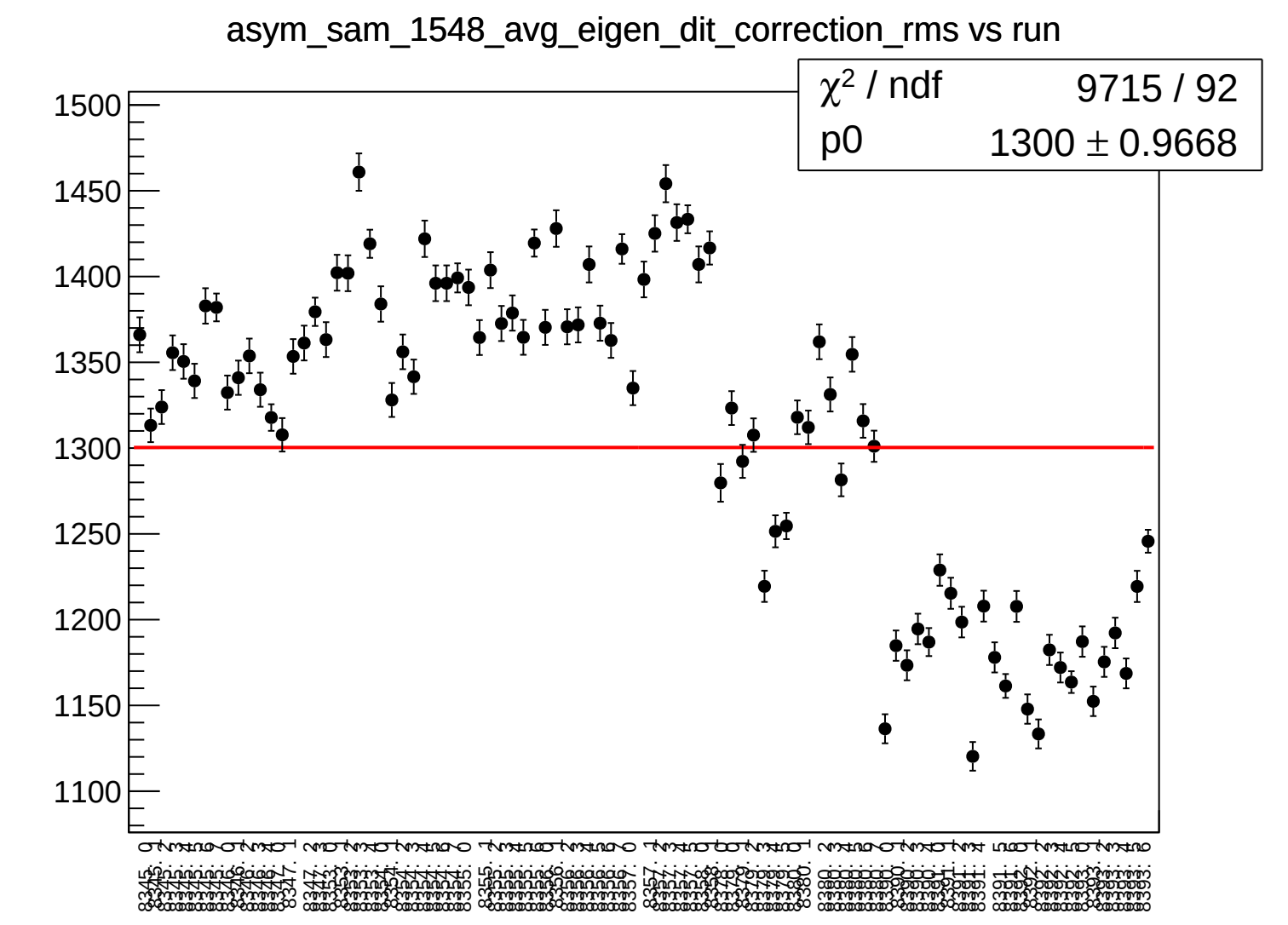

asym_sam_1548_avg_dit_correction_mean vs run
χ² / ndf 114.2 / 92
p0 −4303 ± 1367
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −656.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.006621
Std Dev 1.108
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

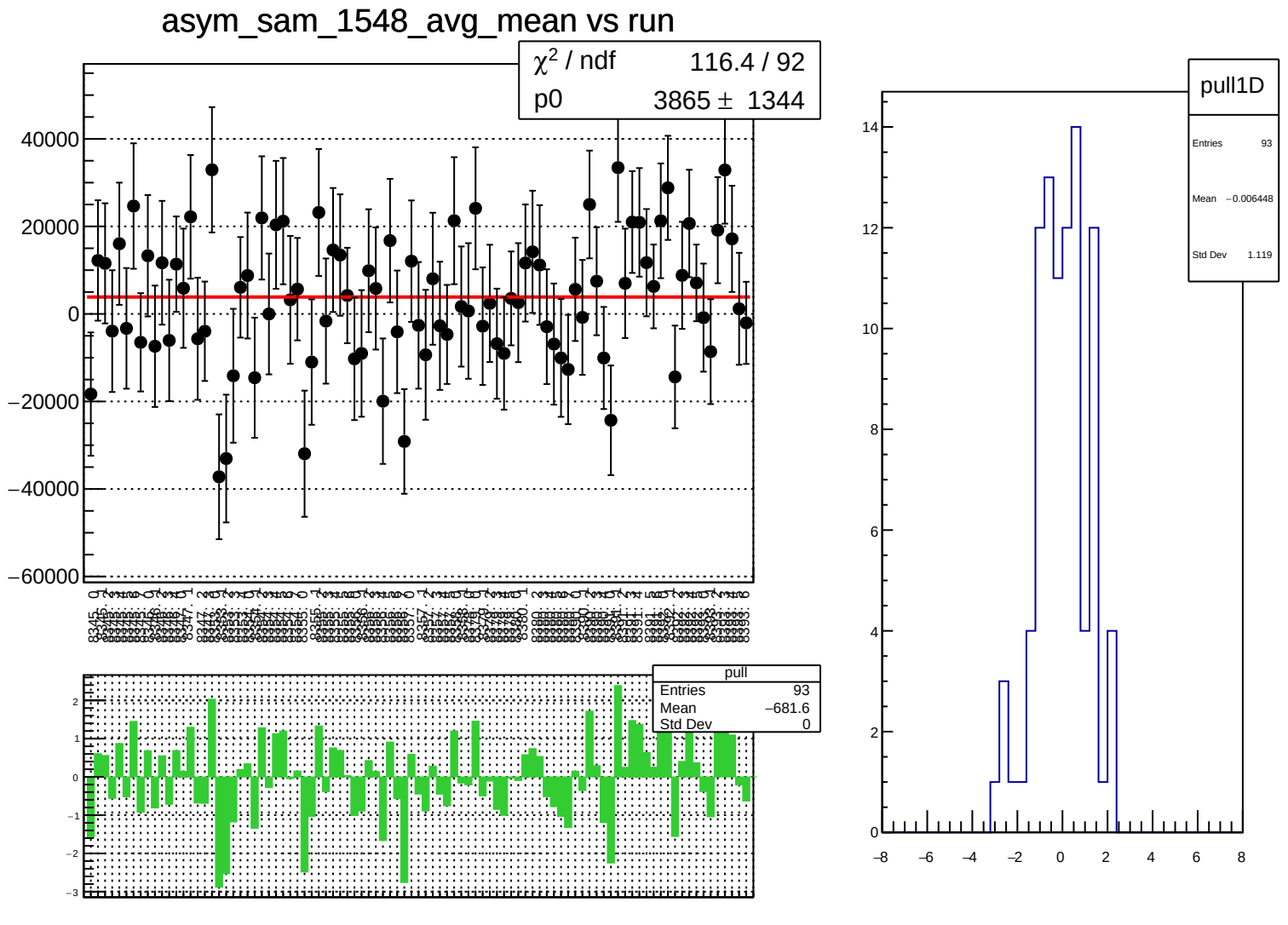

asym_sam_1548_avg_dit_correction_rms vs run
χ² / ndf 9715 / 92
p0 1300 ± 0.9668
1500
1450
1400
1350
1300
1250
1200
1150
1100

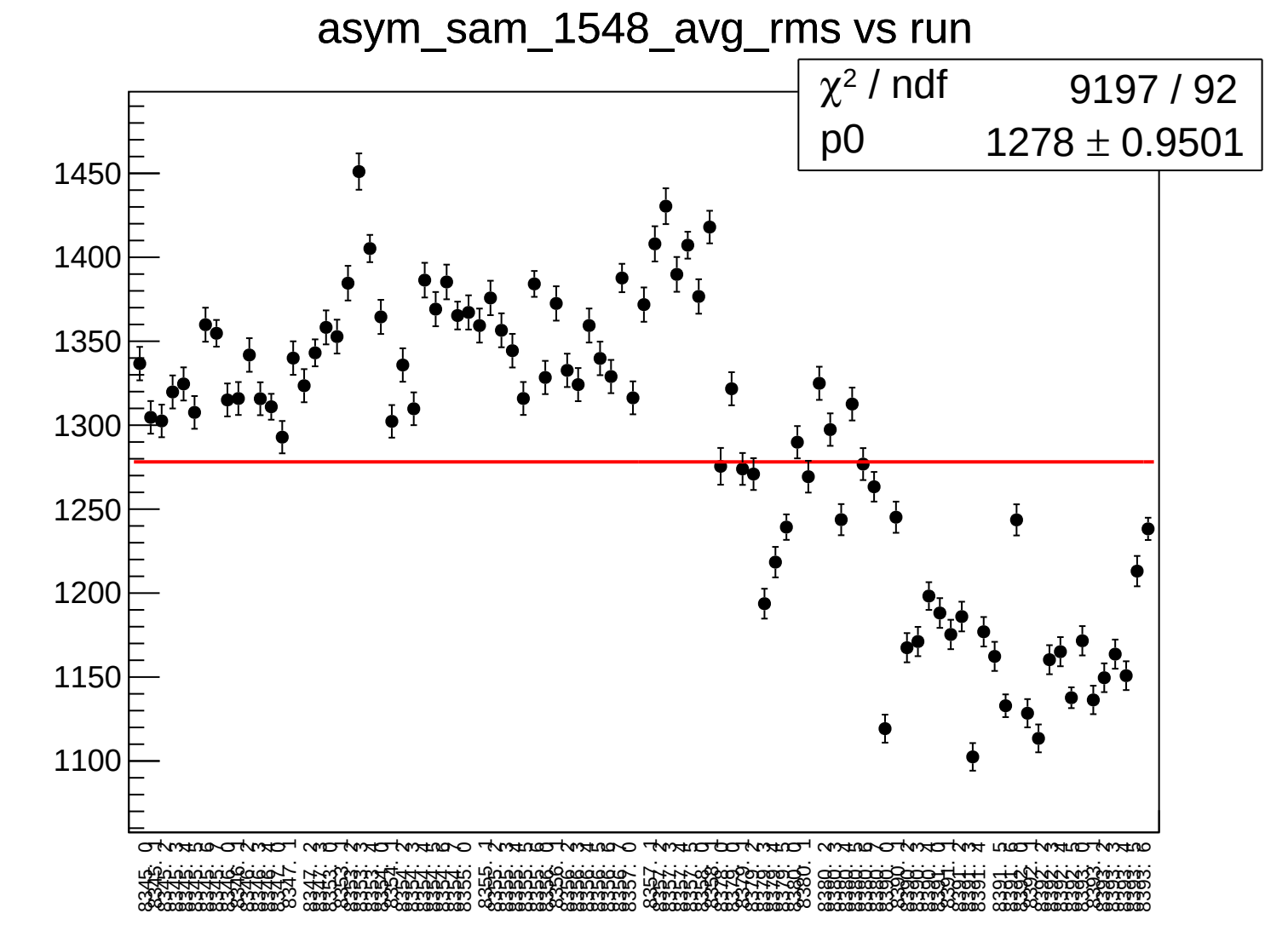

eigen_dit_asym_sam_1548_avg_mean vs run
χ² / ndf 106.7 / 92
p0 −386.7 ± 123.7
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean 101.5
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.01626
Std Dev 1.071
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

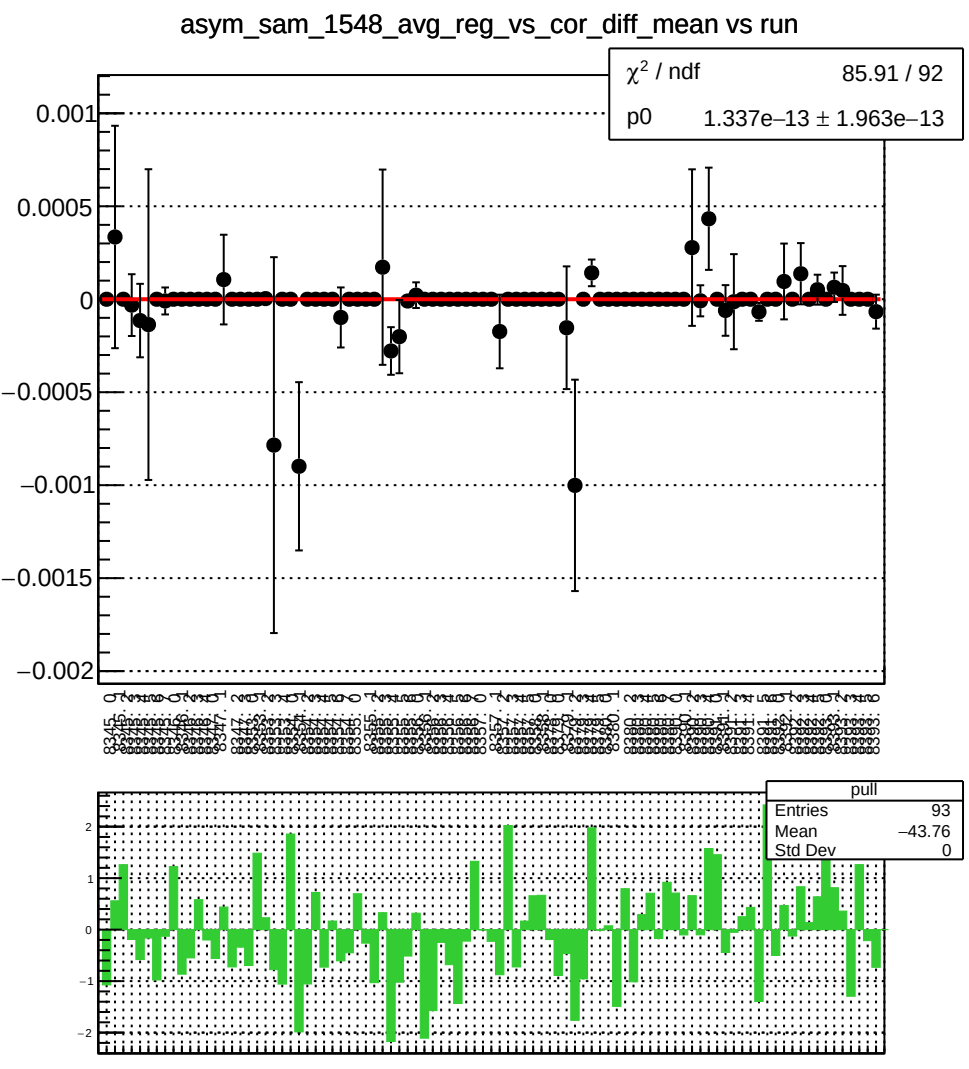

eigen_dit_asym_sam_1548_avg_rms vs run
χ² / ndf 8112 / 92
p0 117.7 ± 0.08746
160
150
140
130
120
110
100

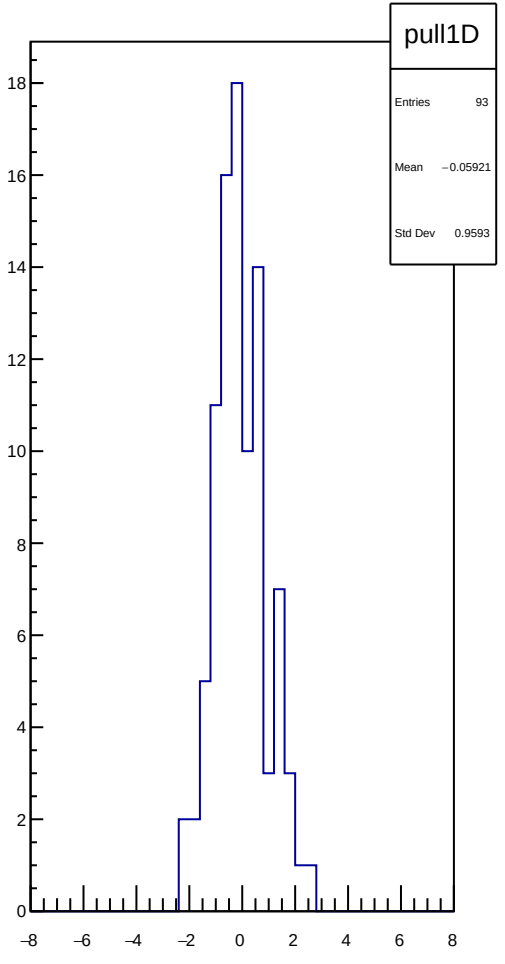

asym_sam_1548_avg_eigen_dit_correction_mean vs run
χ² / ndf 114.2 / 92
p0 −4303 ± 1367
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −656
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.006621
Std Dev 1.108
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

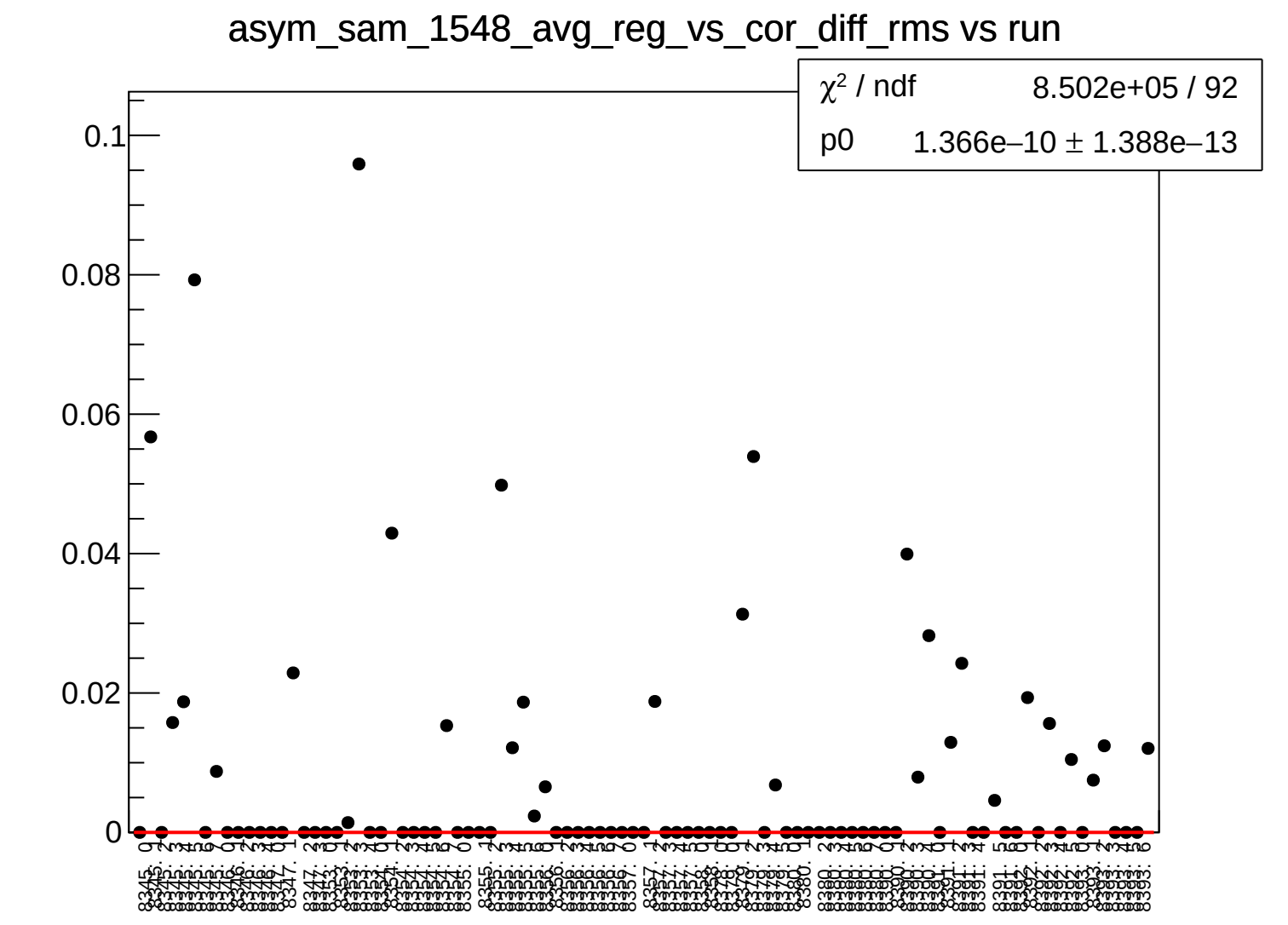

asym_sam_1548_avg_eigen_dit_correction_rms vs run
χ² / ndf 9715 / 92
p0 1300 ± 0.9668
1500
1450
1400
1350
1300
1250
1200
1150
1100

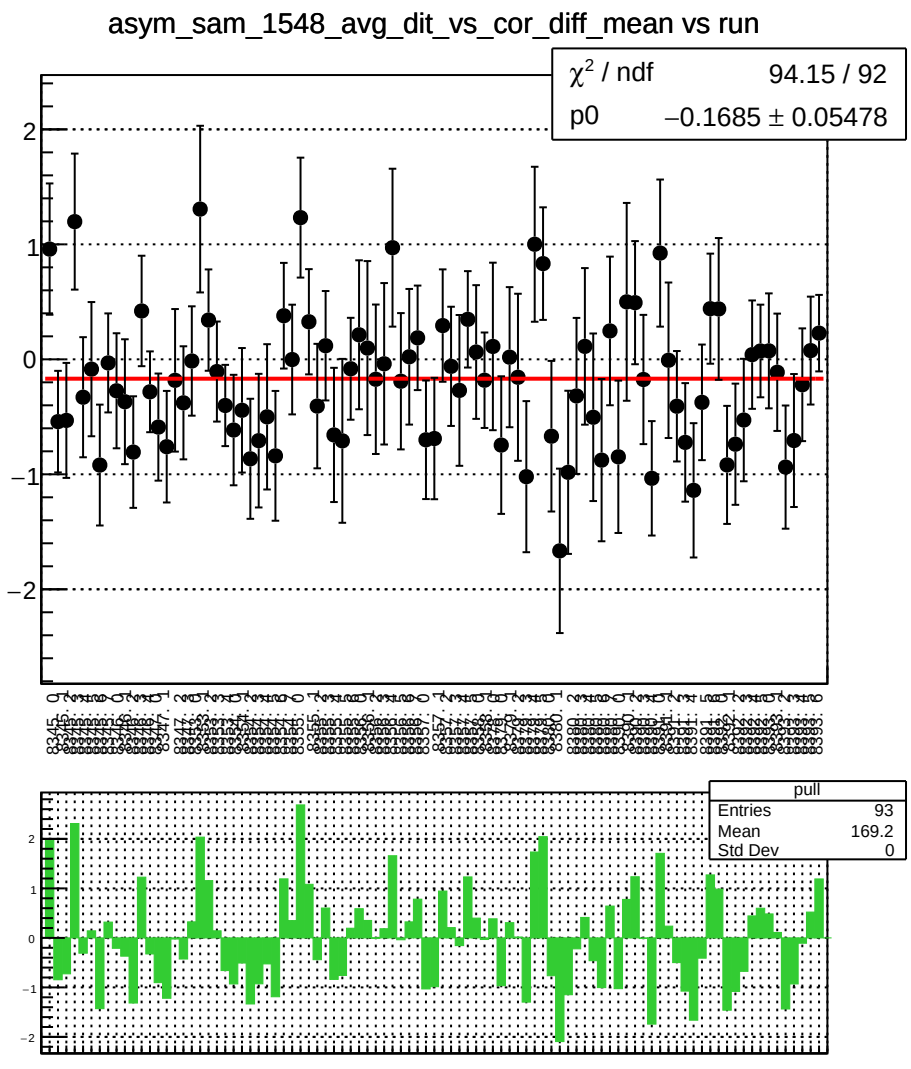

asym_sam_1548_avg_mean vs run
χ² / ndf 116.4 / 92
p0 3865 ± 1344
pull
Entries 93
Mean −681.6
Std Dev 0
pull1D
Entries 93
Mean −0.006448
Std Dev 1.119

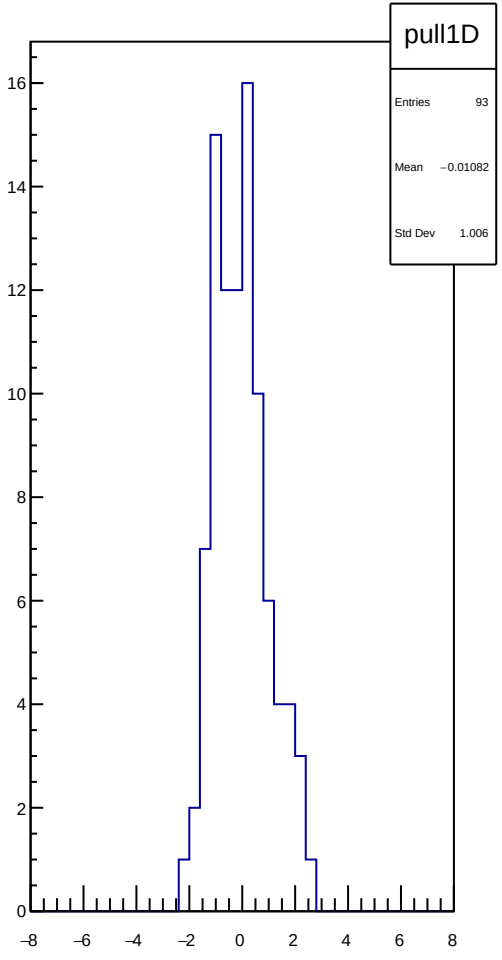

asym_sam_1548_avg_rms vs run
χ² / ndf 9197 / 92
p0 1278 ± 0.9501
1450
1400
1350
1300
1250
1200
1150
1100

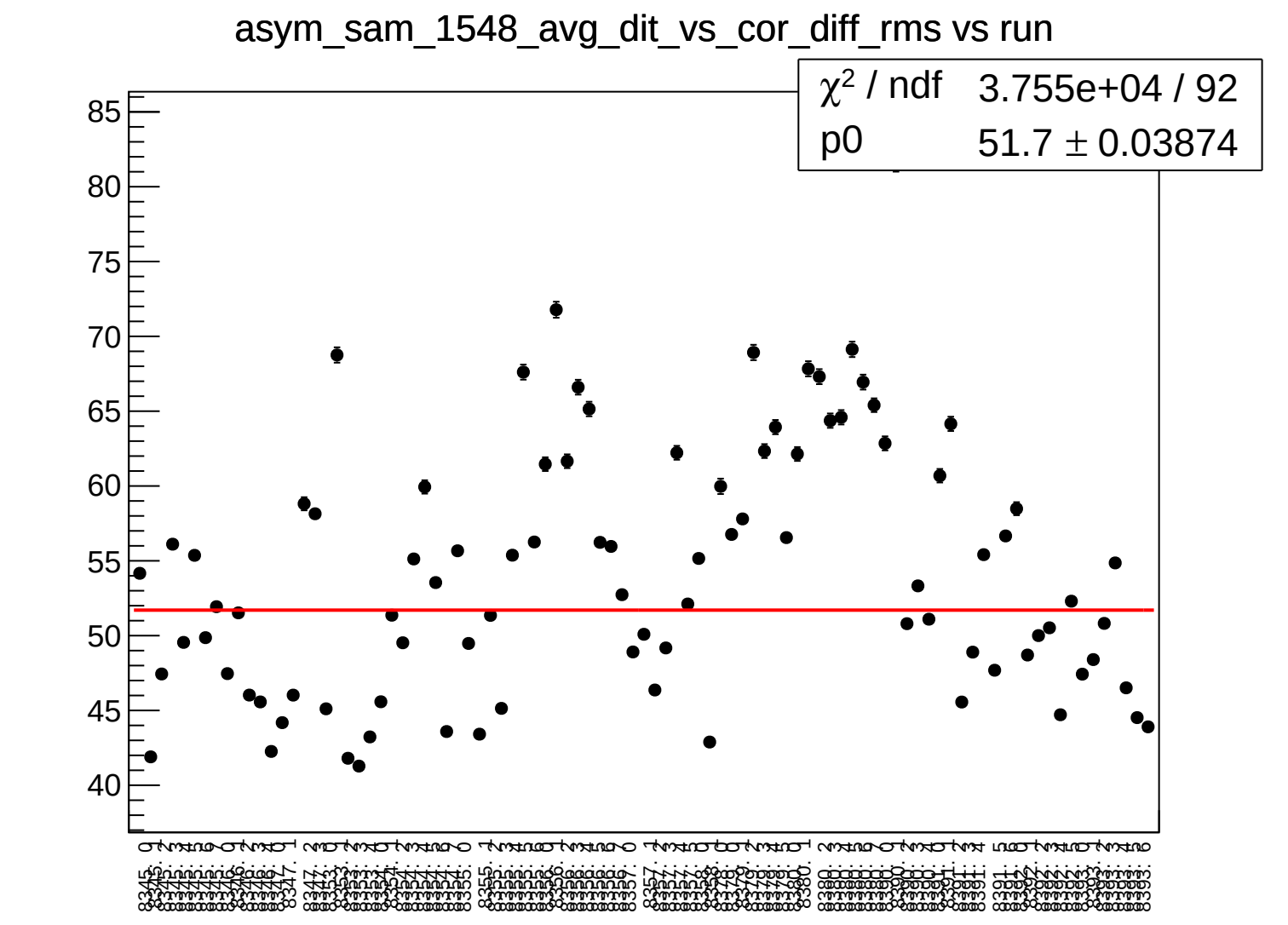

asym_sam_1548_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 85.91 / 92
p0 1.337e−13 ± 1.963e−13
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 93
Mean −43.76
Std Dev 0
2
1
0
−1
−2

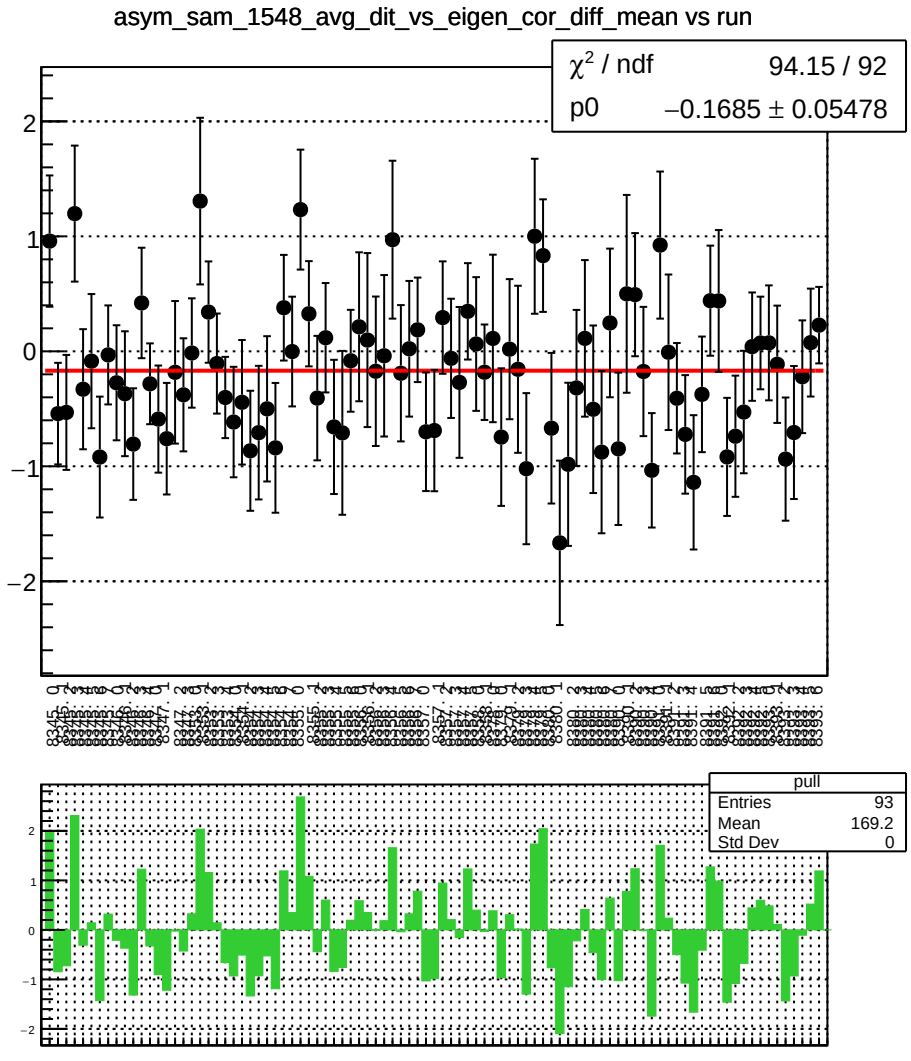

pull1D
Entries 93
Mean −0.05921
Std Dev 0.9593
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

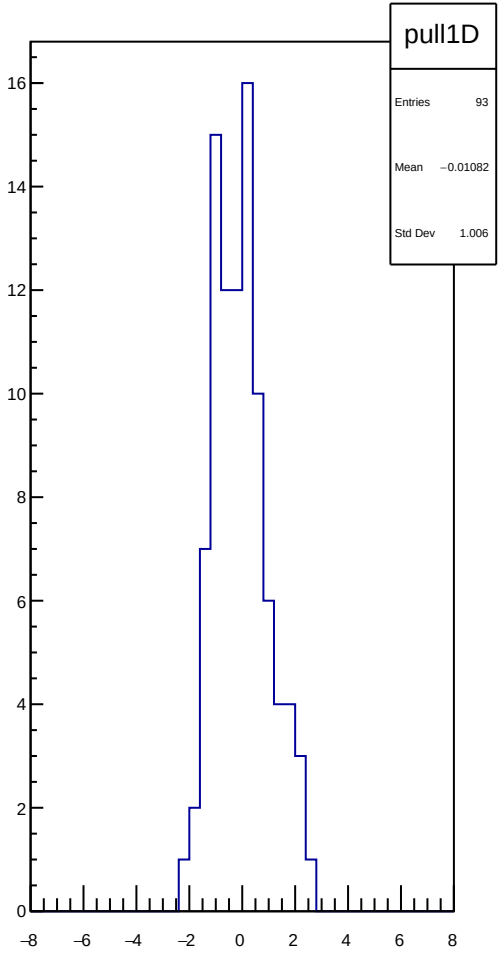

asym_sam_1548_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.502e+05 / 92
p0 1.366e−10 ± 1.388e−13
0.1
0.08
0.06
0.04
0.02
0

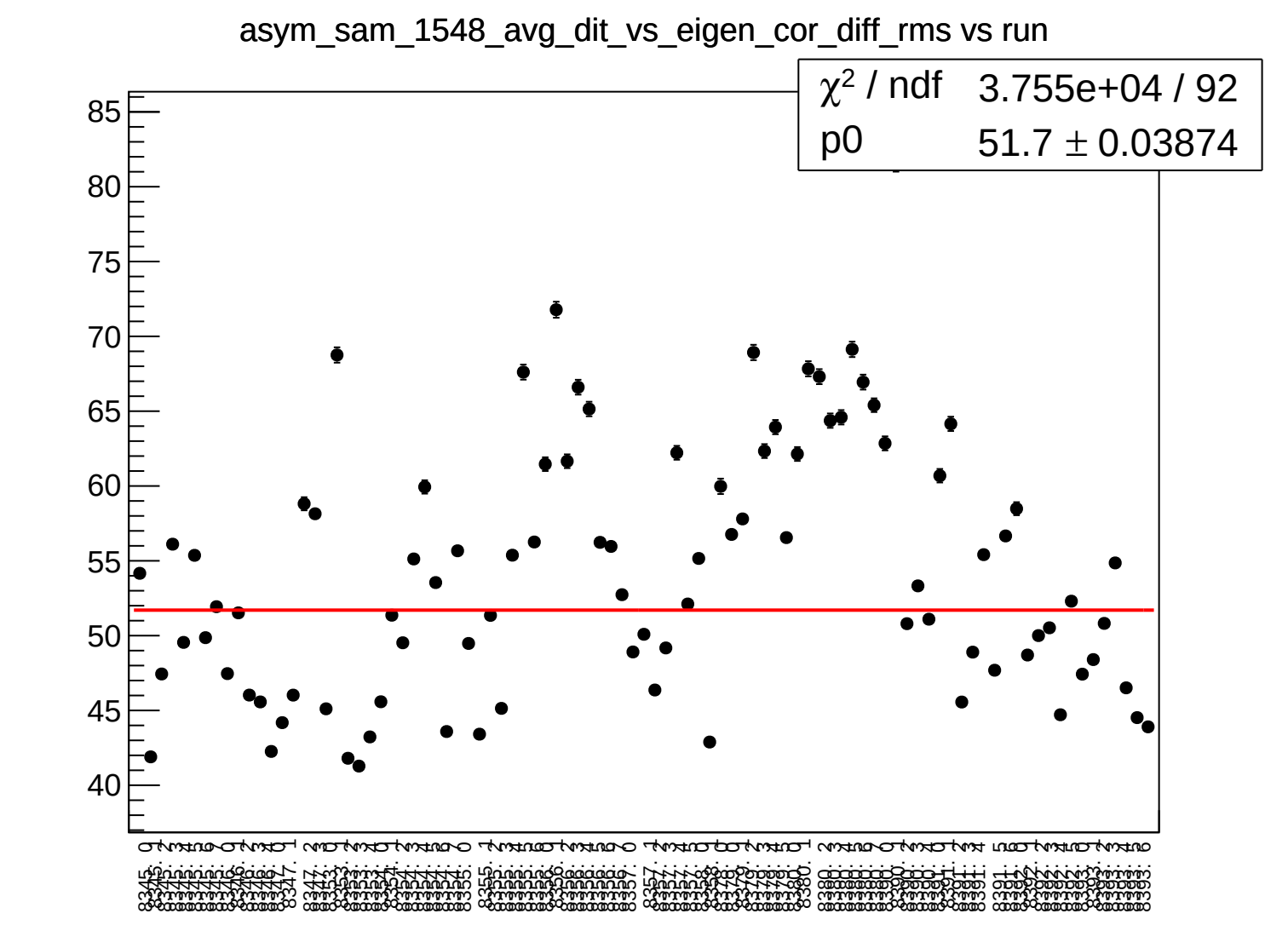

asym_sam_1548_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 94.15 / 92
p0 −0.1685 ± 0.05478
pull
Entries 93
Mean 169.2
Std Dev 0

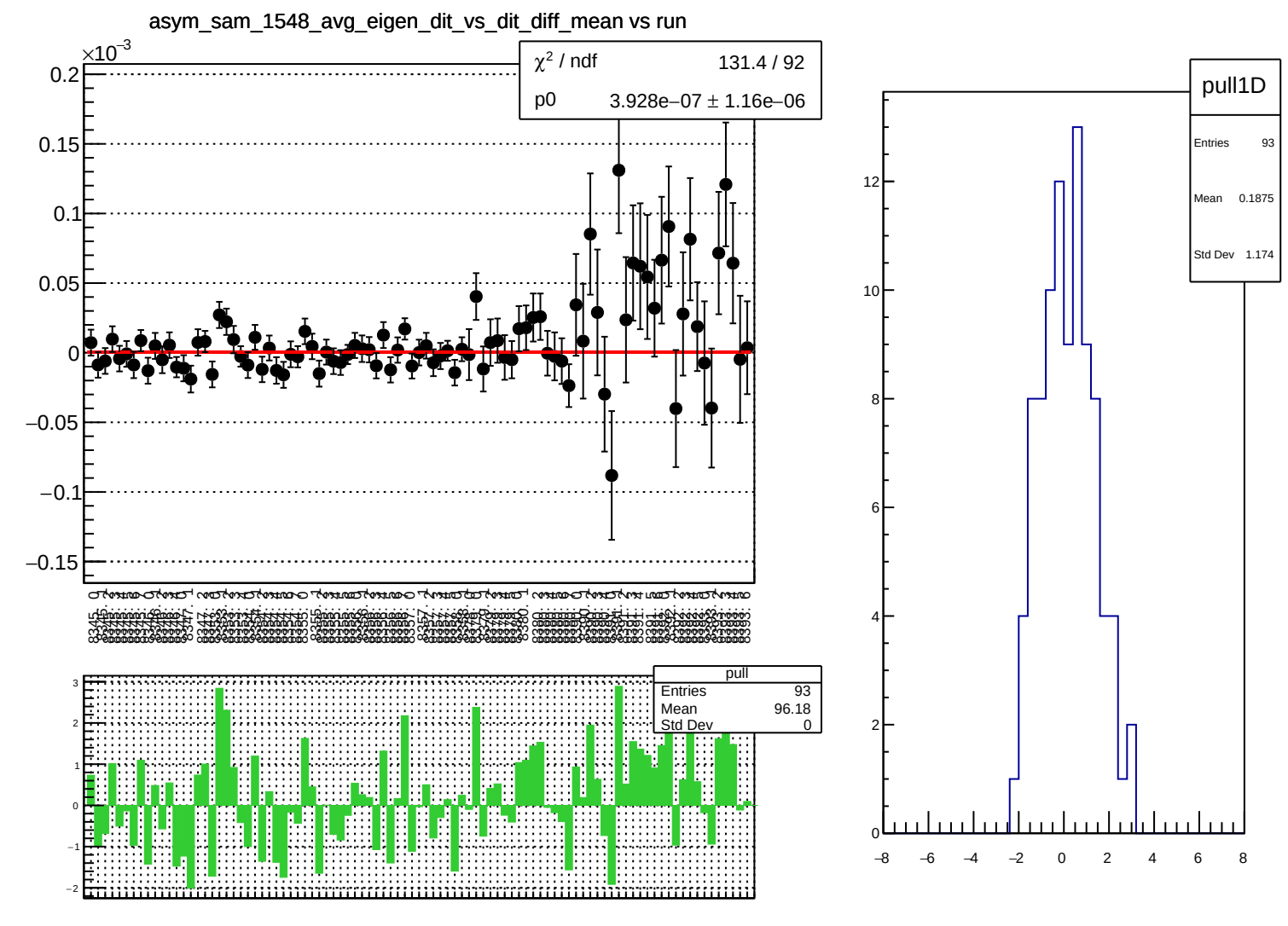

pull1D
Entries 93
Mean −0.01082
Std Dev 1.006

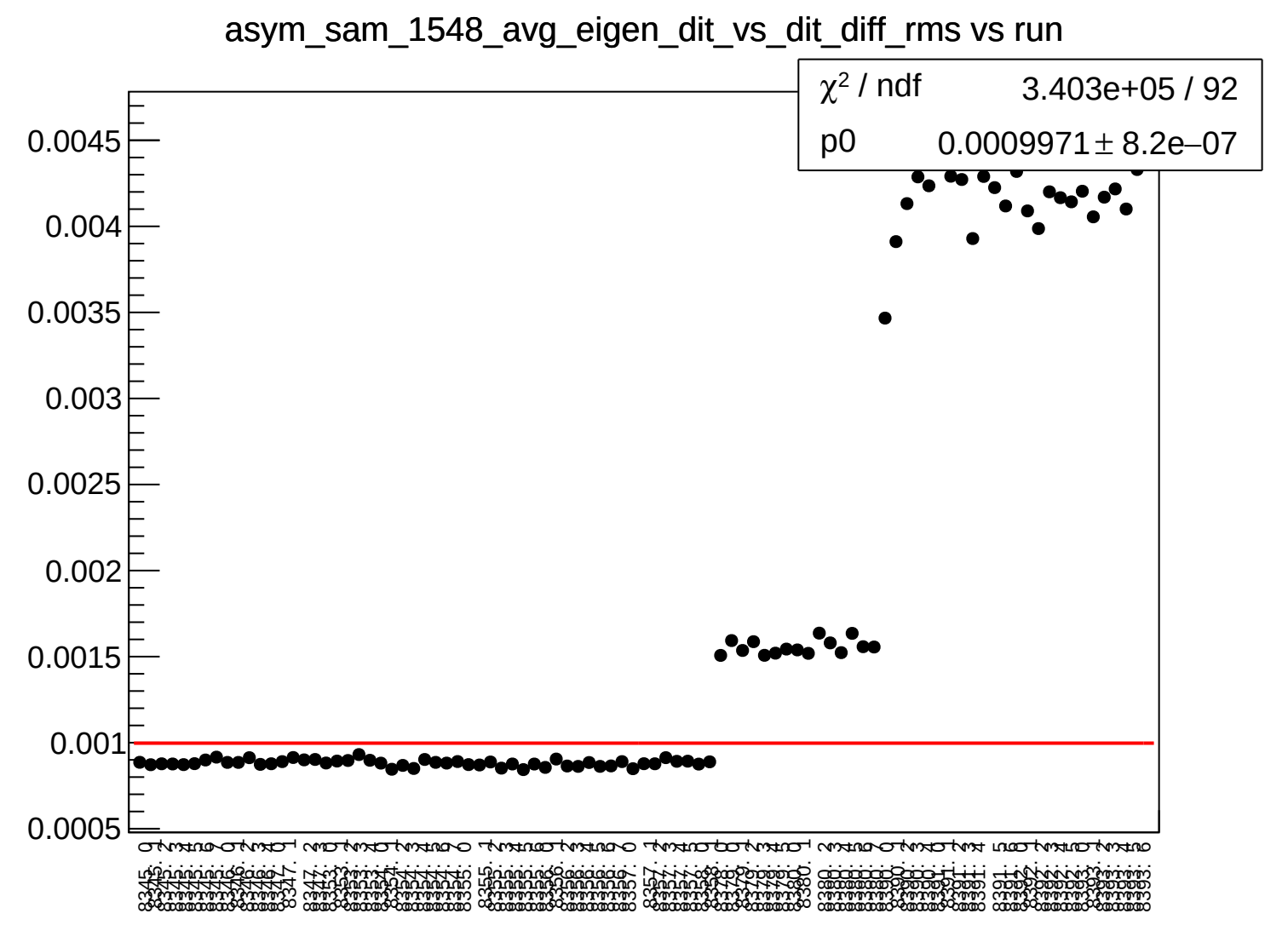

asym_sam_1548_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.755e+04 / 92
p0 51.7 ± 0.03874
85
80
75
70
65
60
55
50
45
40

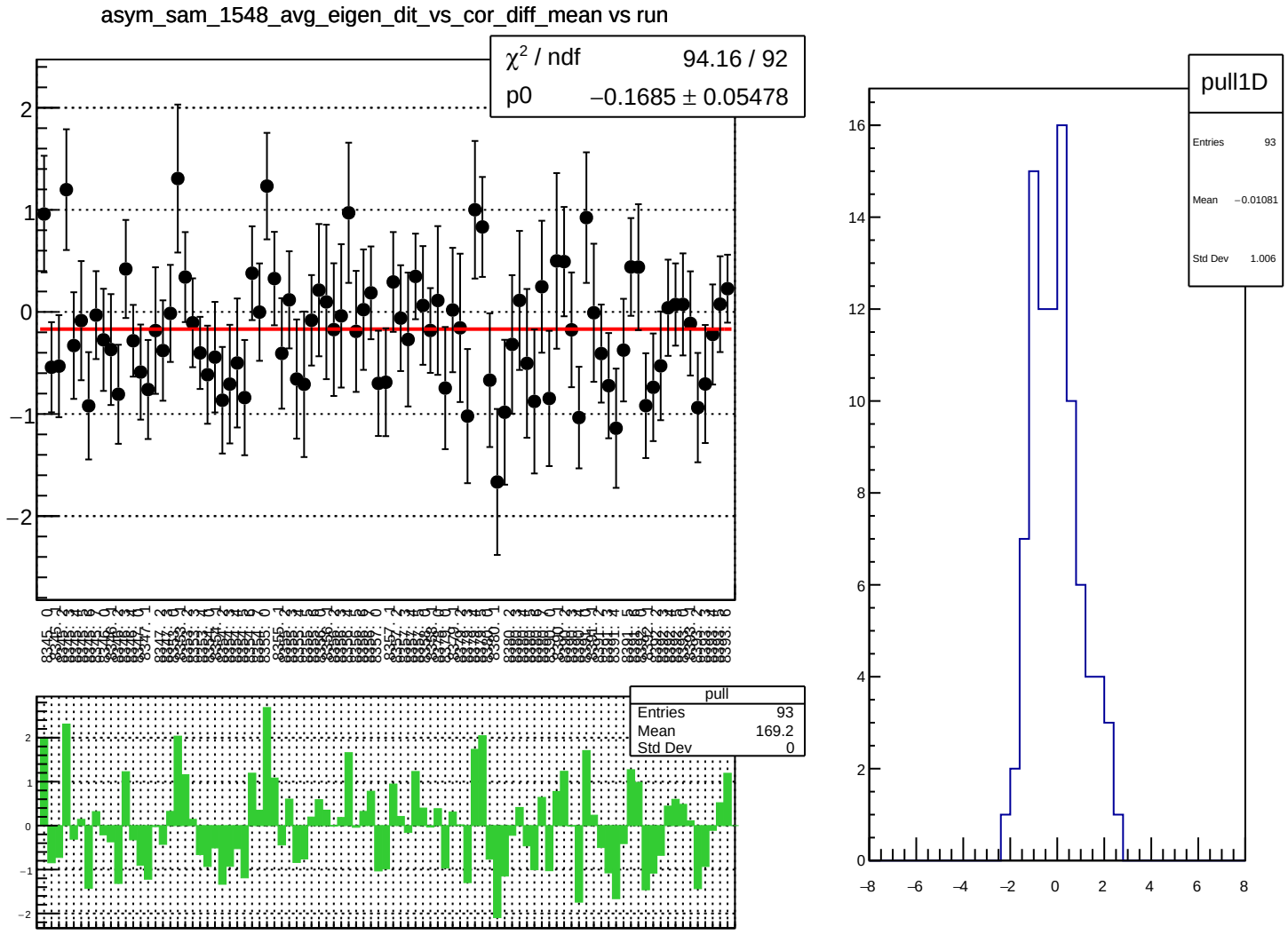

asym_sam_1548_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.15 / 92
p0 −0.1685 ± 0.05478
pull
Entries 93
Mean 169.2
Std Dev 0

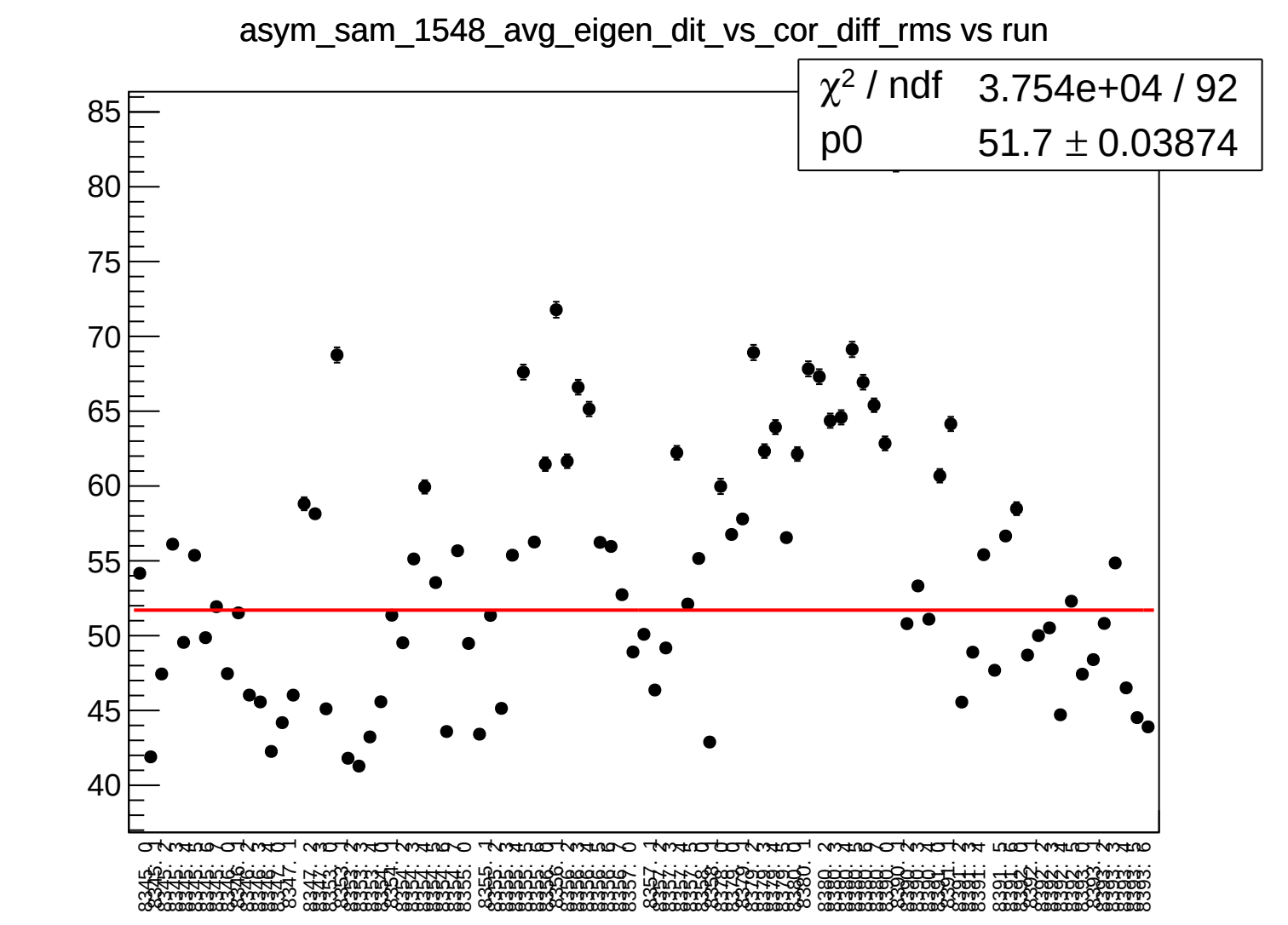

pull1D
Entries 93
Mean −0.01082
Std Dev 1.006

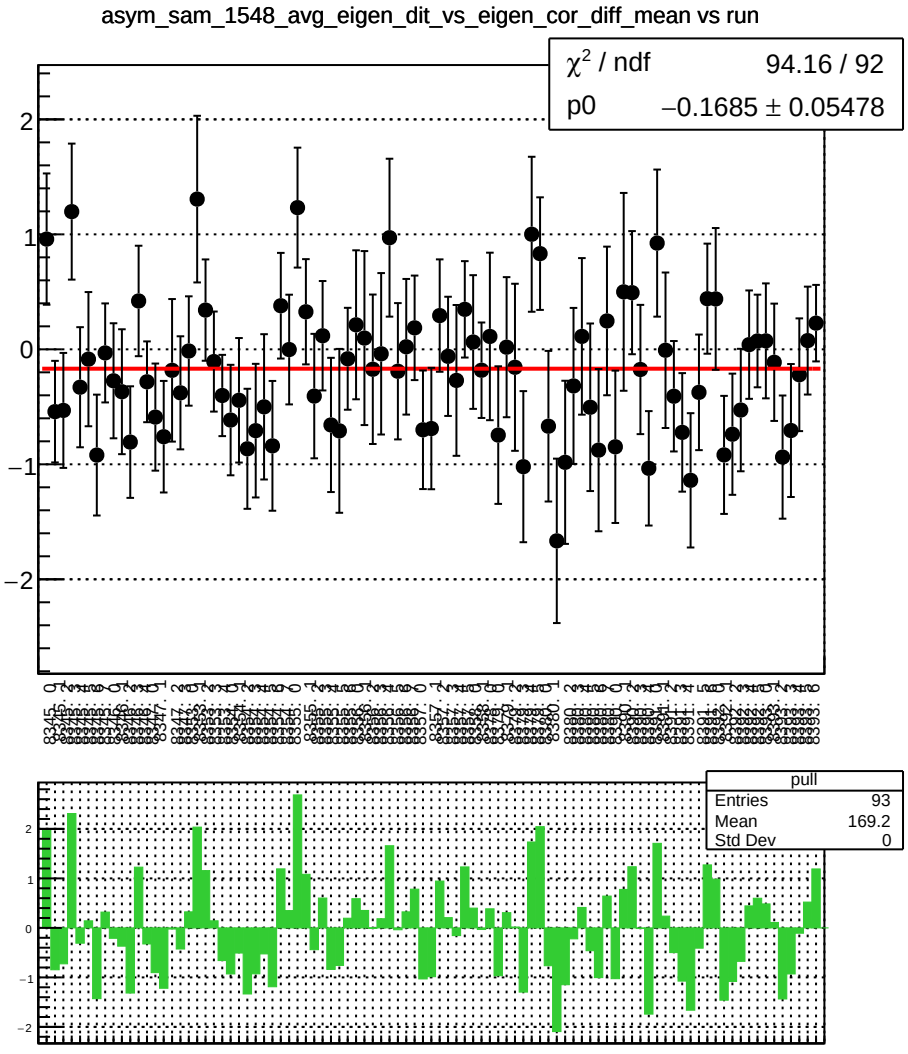

asym_sam_1548_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.755e+04 / 92
p0 51.7 ± 0.03874
85
80
75
70
65
60
55
50
45
40

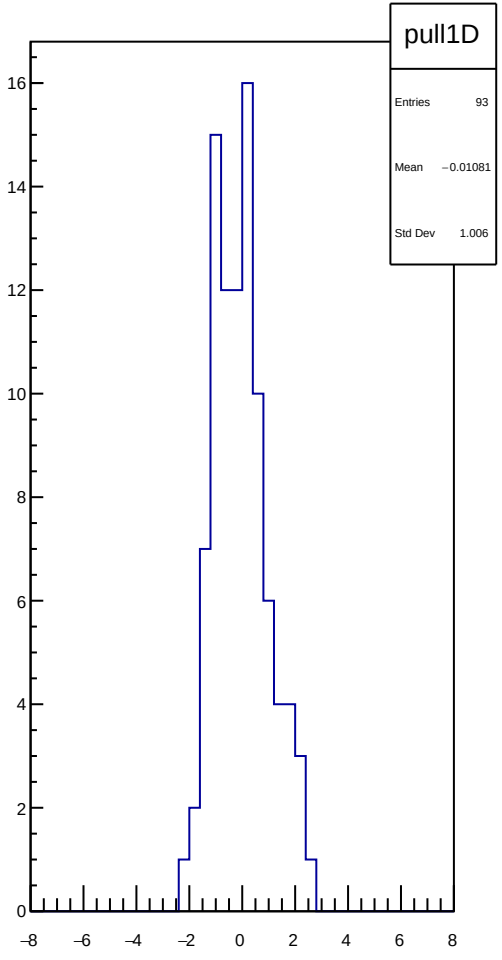

asym_sam_1548_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 131.4 / 92
p0 3.928e−07 ± 1.16e−06
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 93
Mean 96.18
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.1875
Std Dev 1.174
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

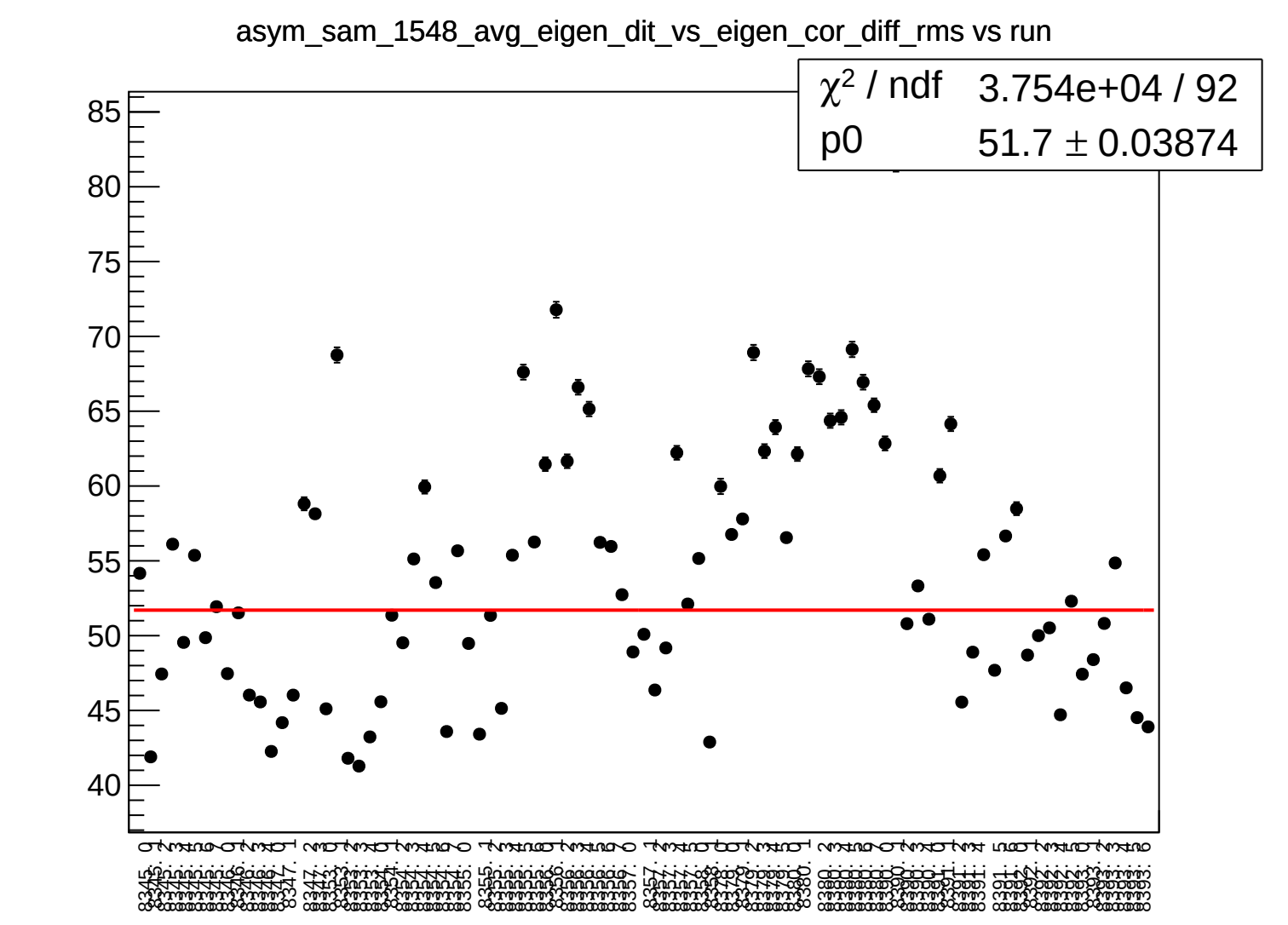

asym_sam_1548_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.403e+05 / 92
p0 0.0009971 ± 8.2e–07
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005

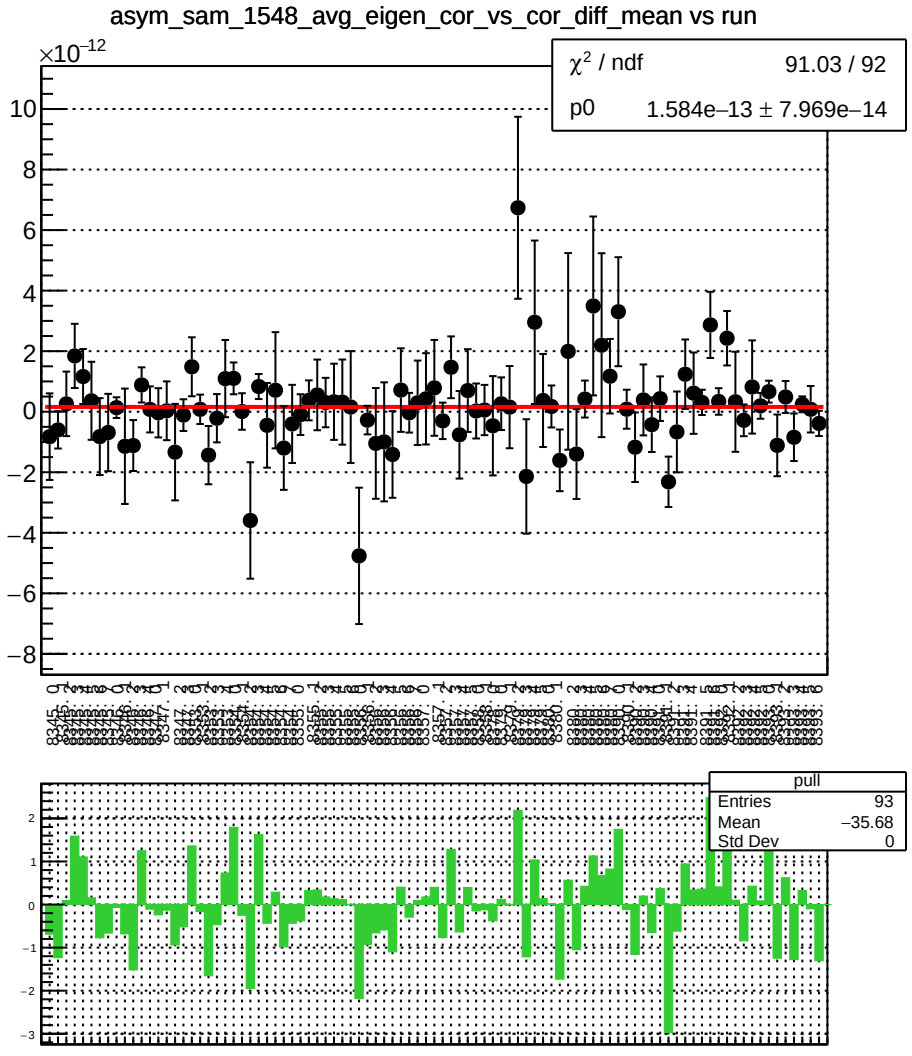

asym_sam_1548_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.16 / 92
p0 −0.1685 ± 0.05478
pull
Entries 93
Mean 169.2
Std Dev 0
pull1D
Entries 93
Mean −0.01081
Std Dev 1.006

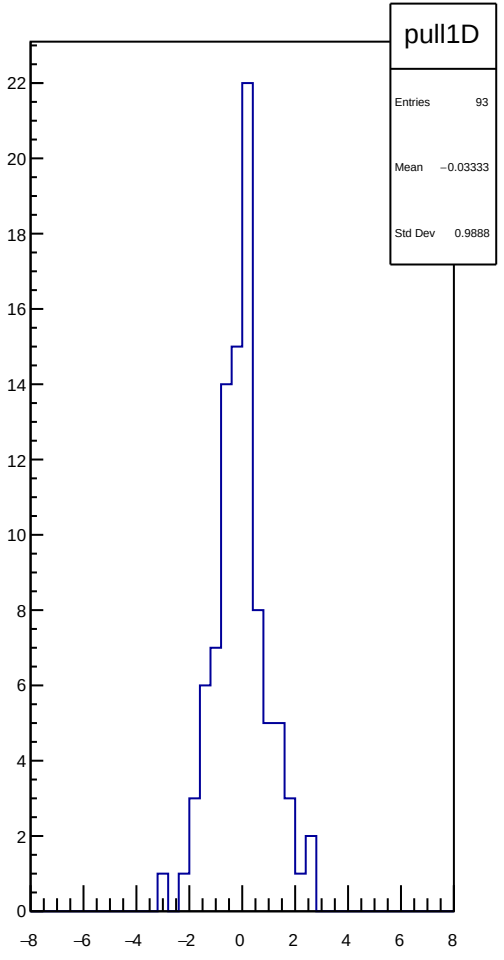

asym_sam_1548_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.754e+04 / 92
p0 51.7 ± 0.03874
85
80
75
70
65
60
55
50
45
40

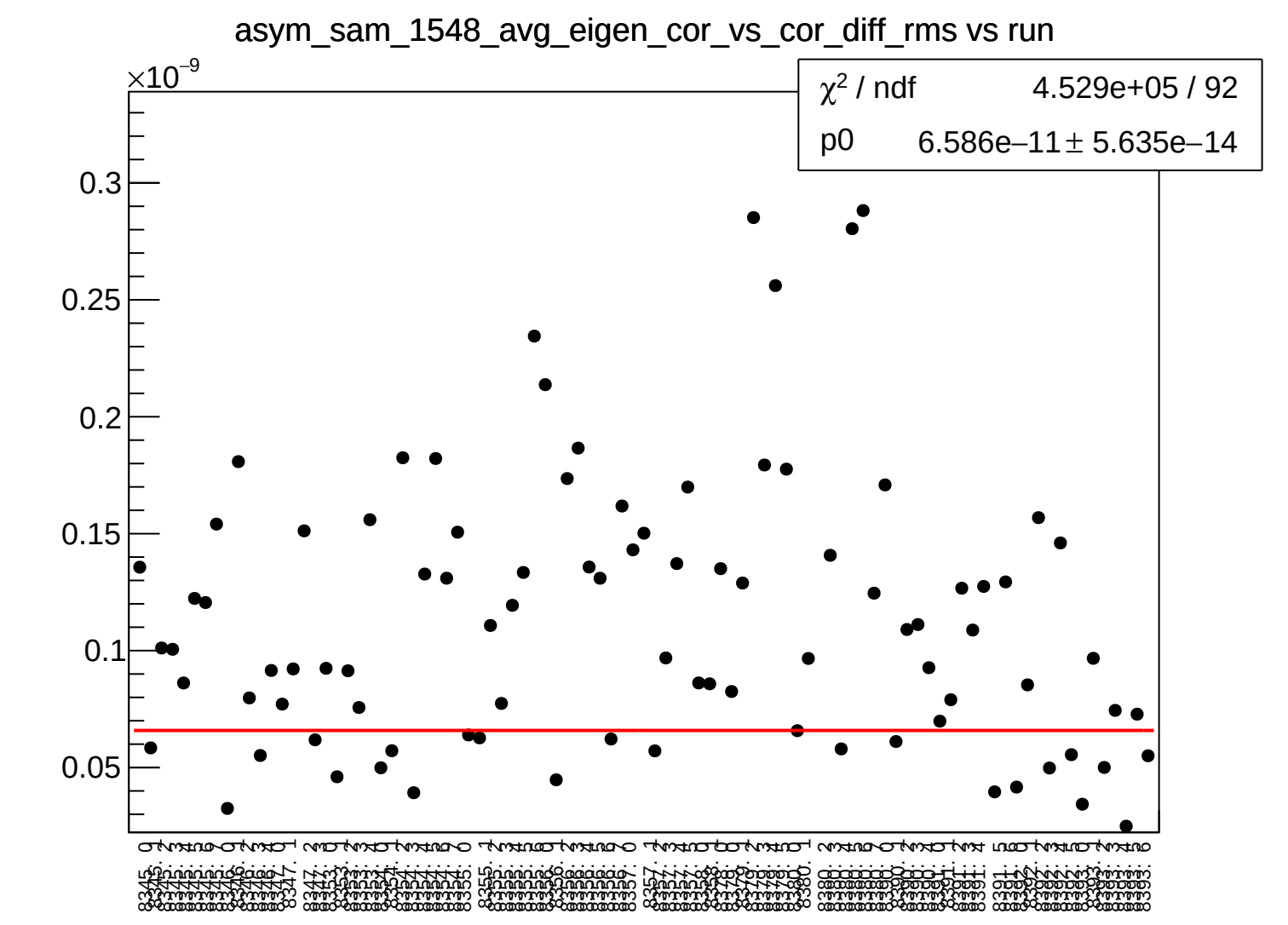

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.16 / 92
p0 −0.1685 ± 0.05478
pull
Entries 93
Mean 169.2
Std Dev 0

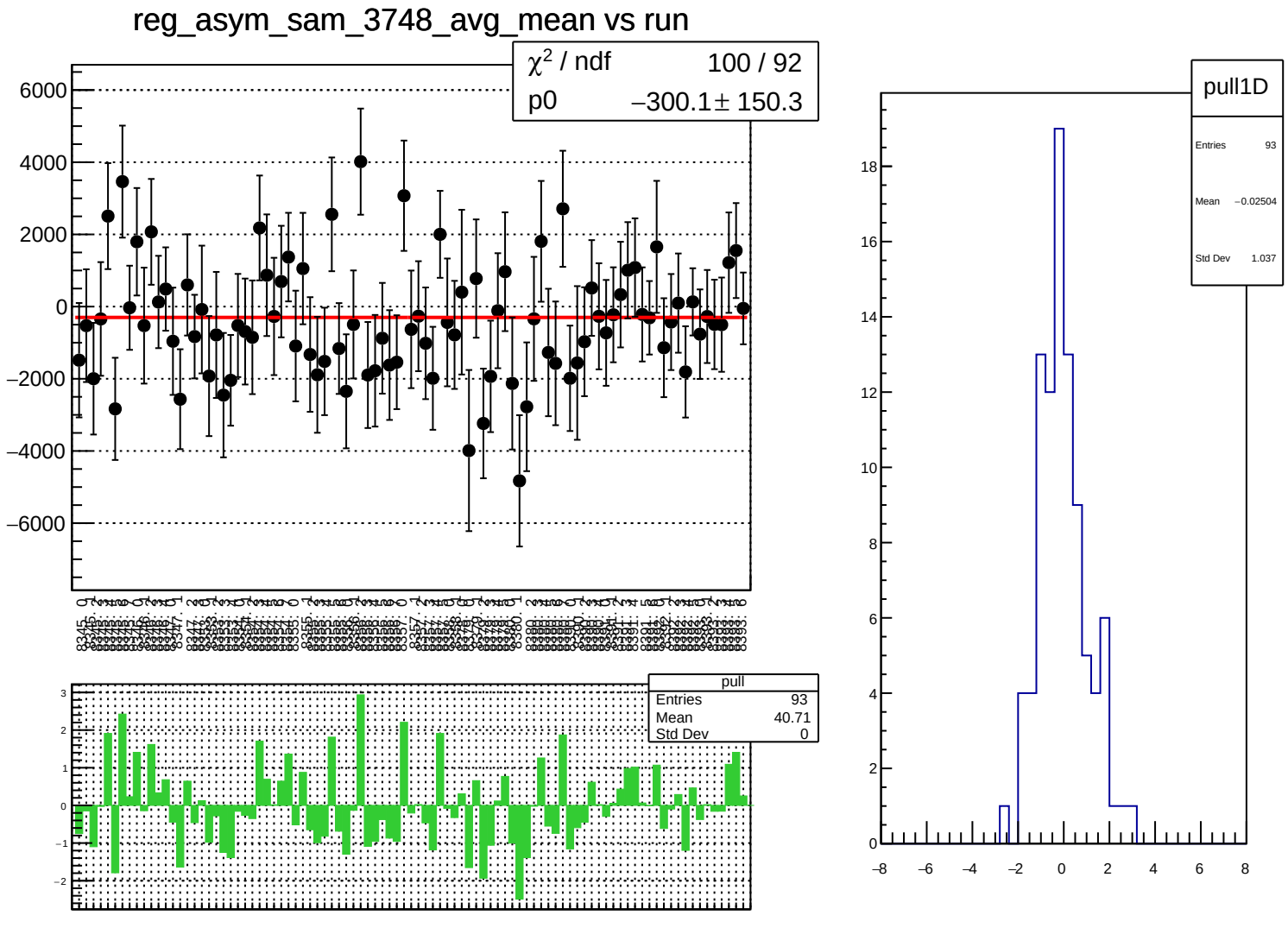

pull1D
Entries 93
Mean −0.01081
Std Dev 1.006

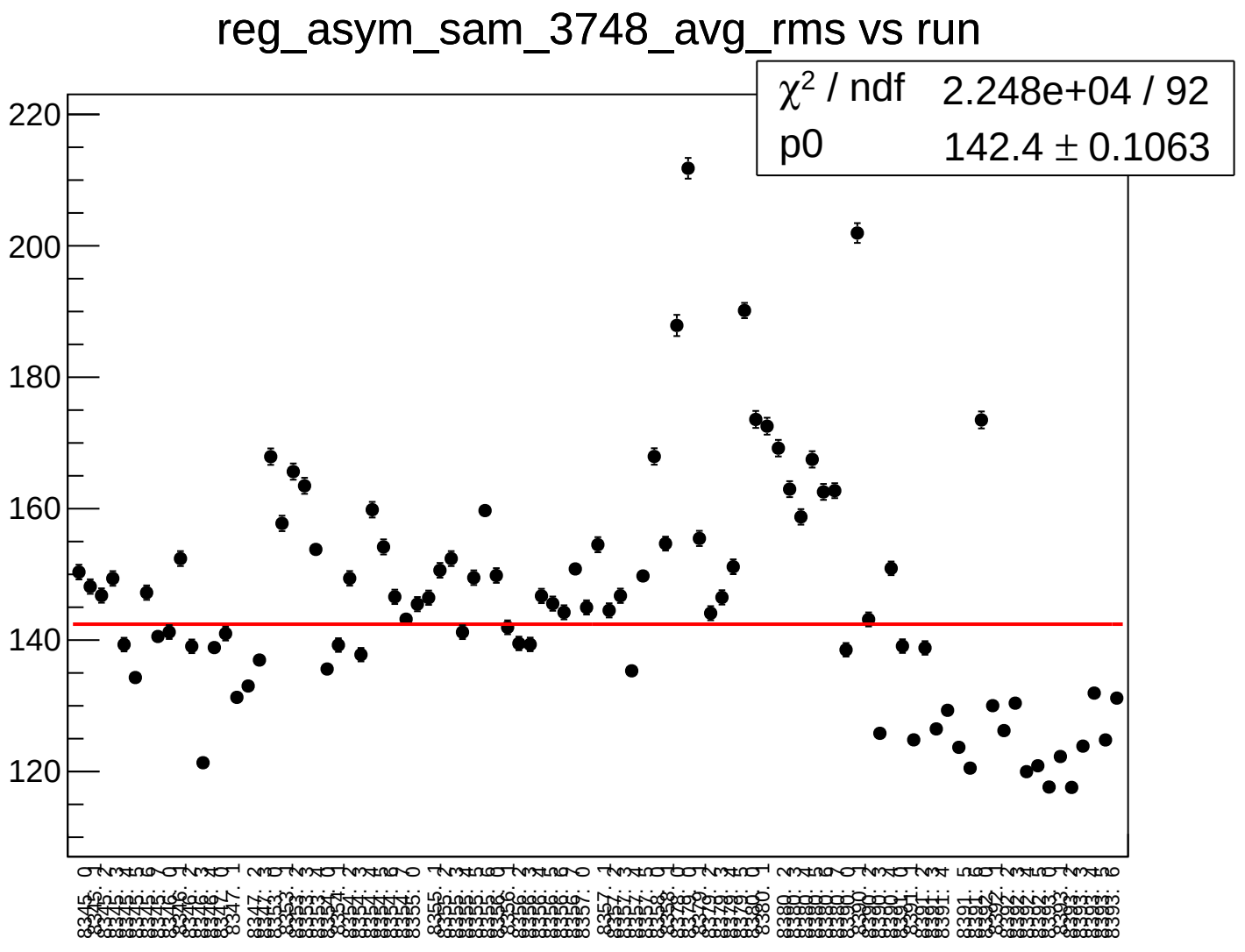

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.754e+04 / 92
p0 51.7 ± 0.03874
85
80
75
70
65
60
55
50
45
40

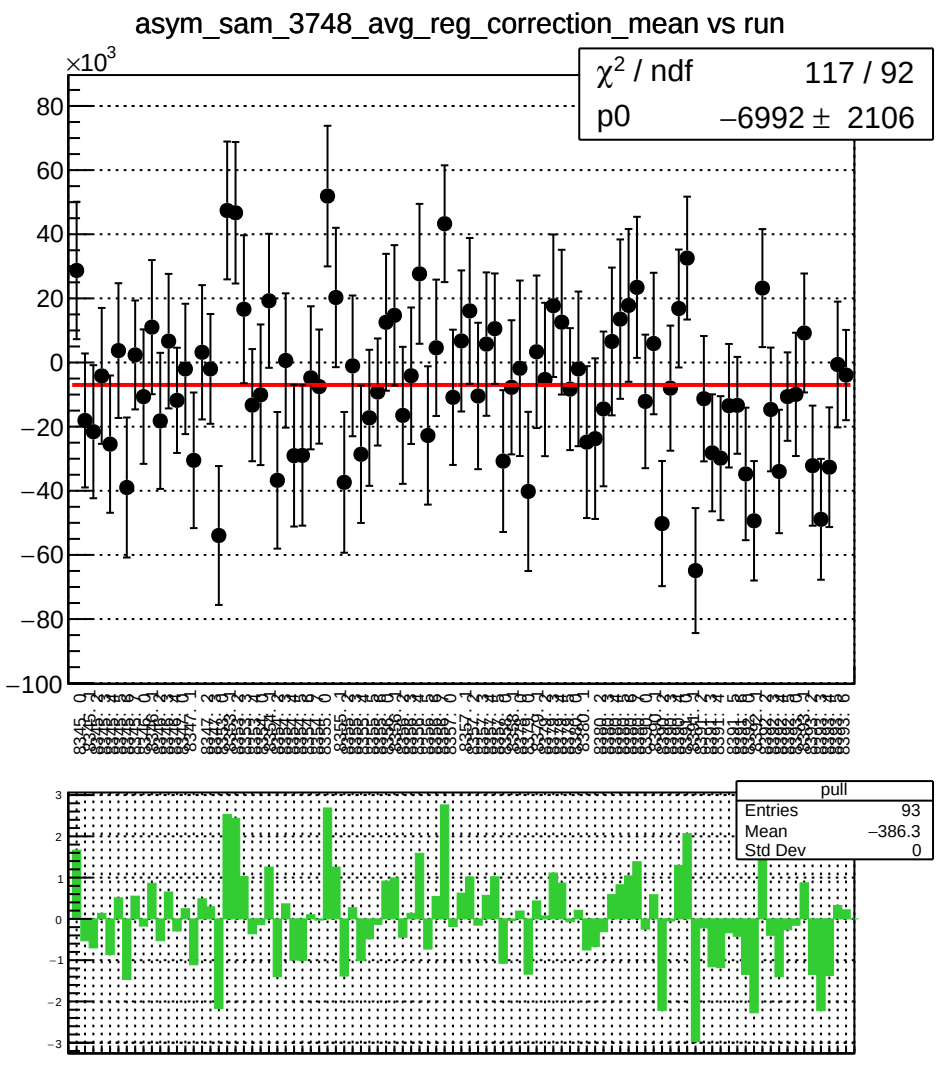

asym_sam_1548_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.03 / 92
p0 1.584e−13 ± 7.969e−14
pull
Entries 93
Mean −35.68
Std Dev 0

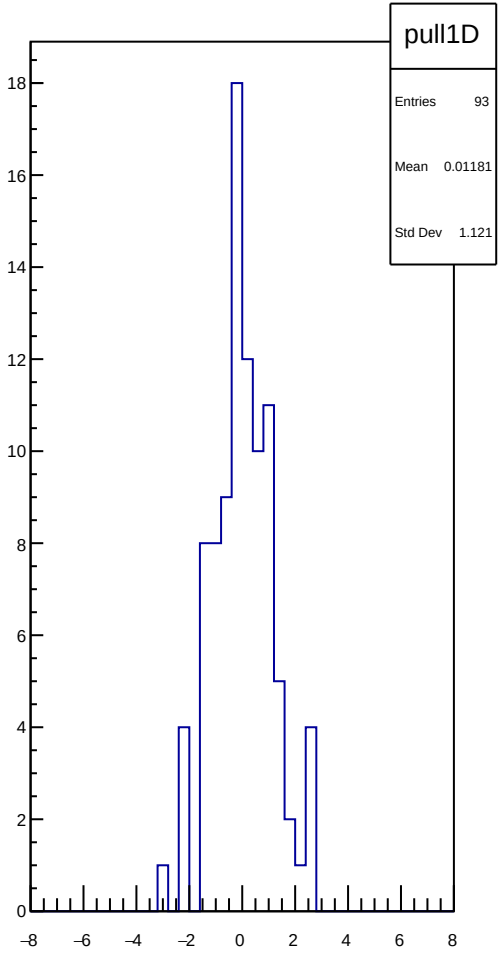

pull1D
Entries 93
Mean −0.03333
Std Dev 0.9888

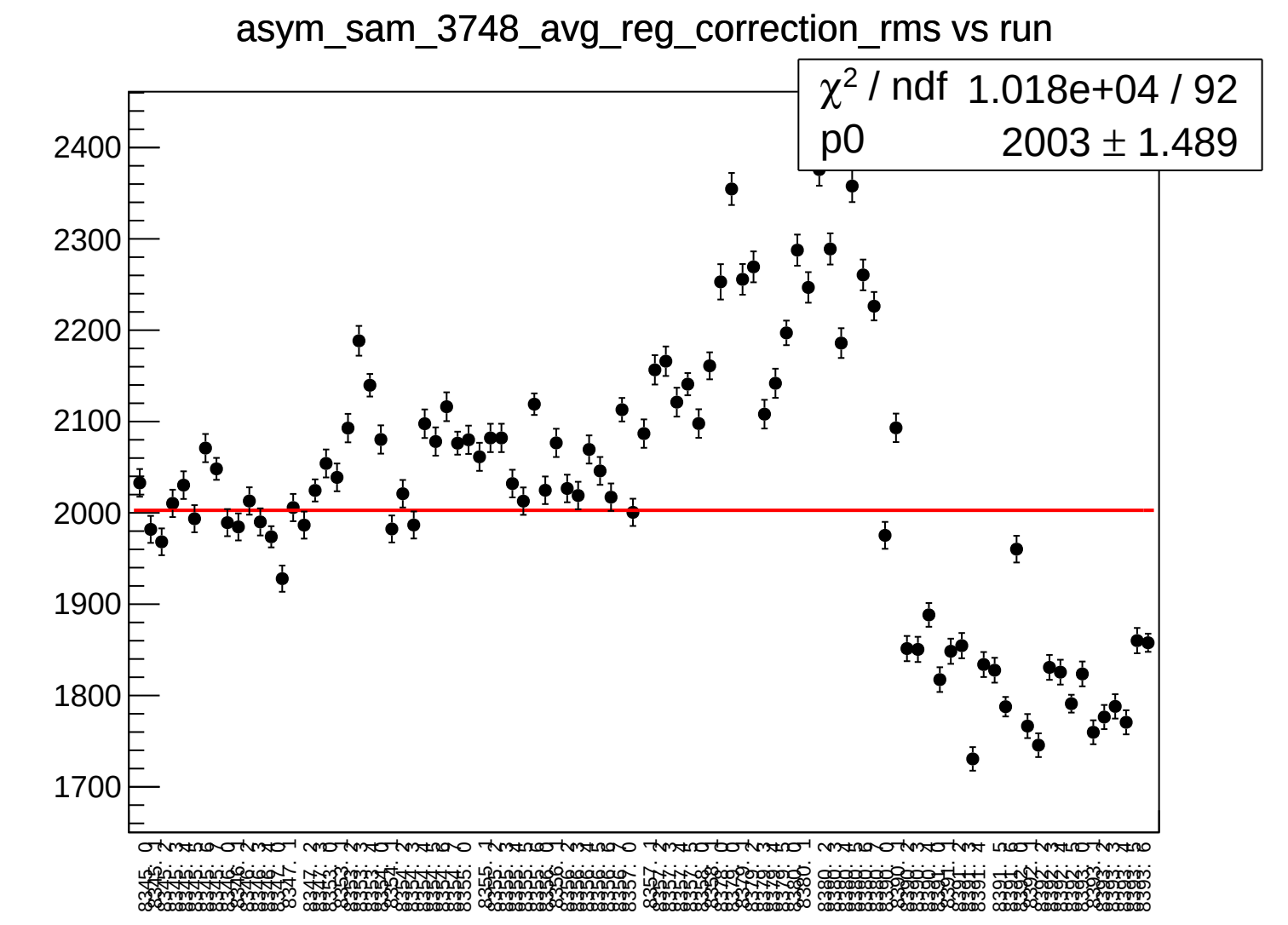

asym_sam_1548_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.529e+05 / 92
p0 6.586e−11 ± 5.635e−14
0.3
0.25
0.2
0.15
0.1
0.05

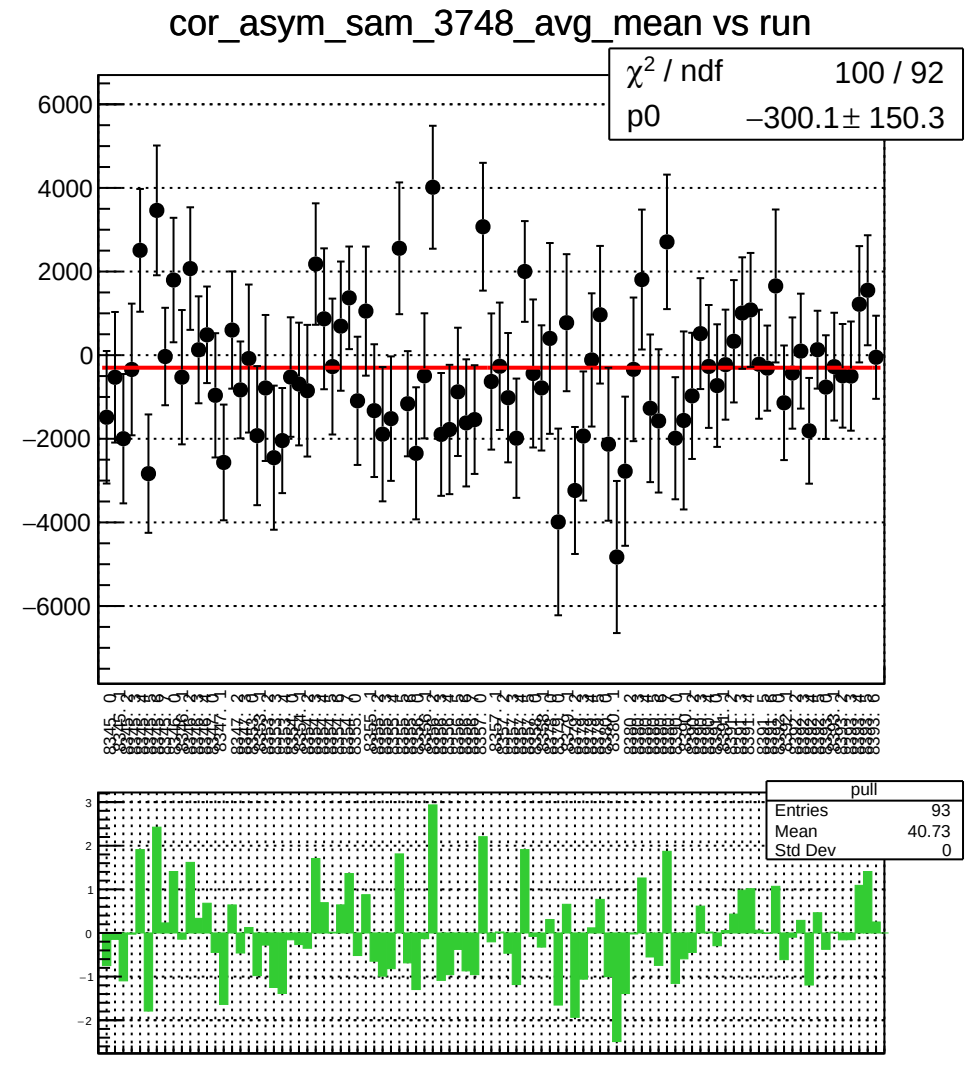

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 100 / 92
p0 −300.1 ± 150.3
pull
Entries 93
Mean 40.71
Std Dev 0
pull1D
Entries 93
Mean −0.02504
Std Dev 1.037

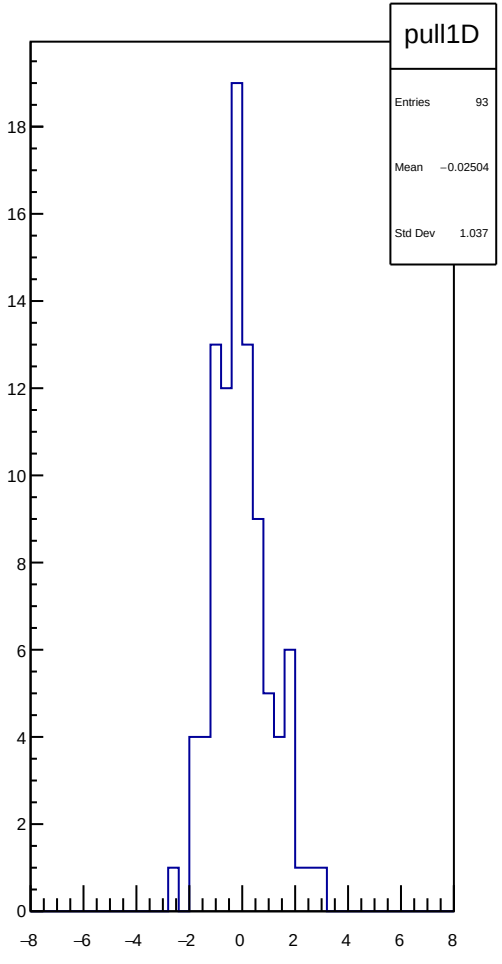

reg_asym_sam_3748_avg_rms vs run
χ^2 / ndf 2.248e+04 / 92
p0 142.4 ± 0.1063
220
200
180
160
140
120

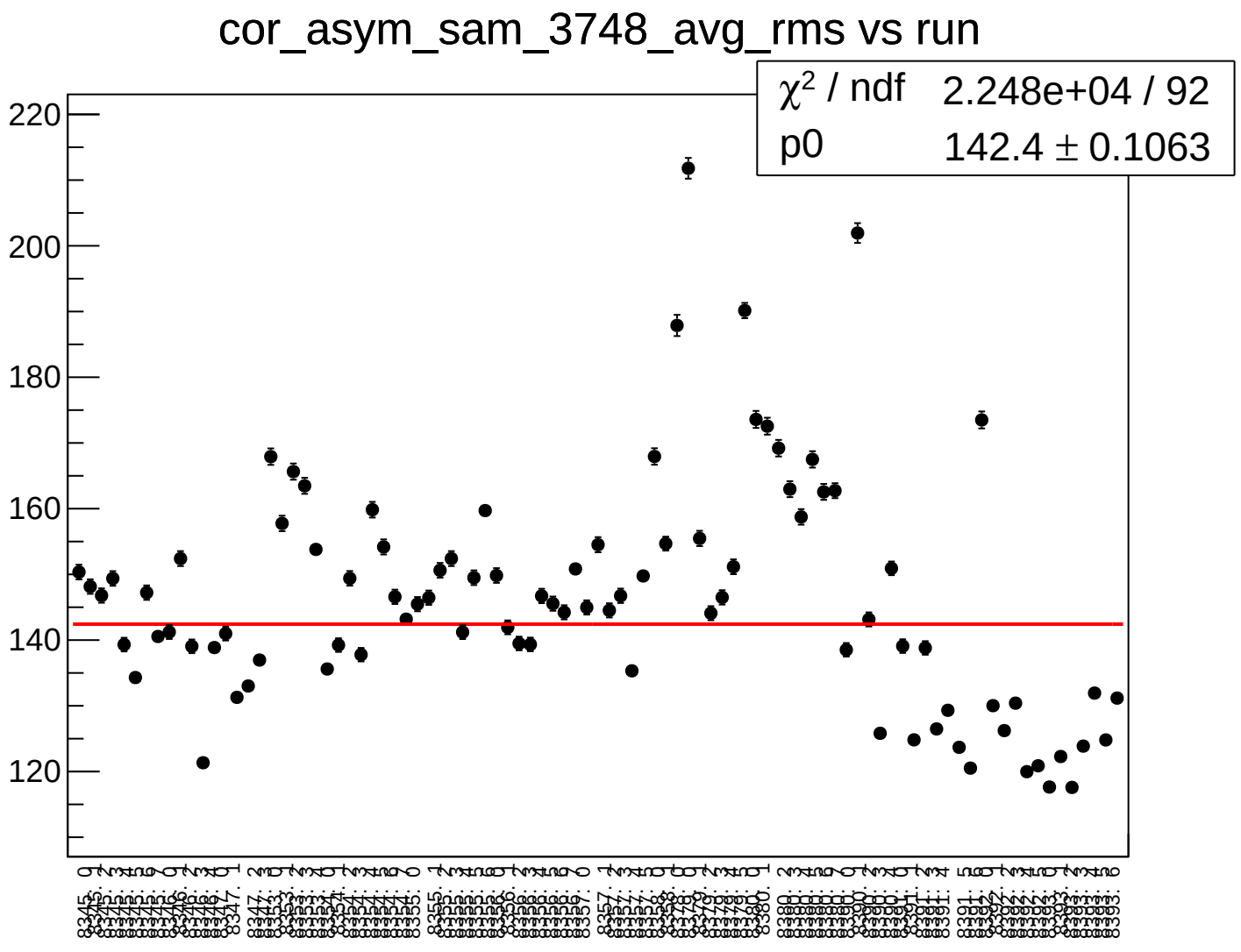

asym_sam_3748_avg_reg_correction_mean vs run
×10^3
χ² / ndf 117 / 92
p0 −6992 ± 2106
pull
Entries 93
Mean −386.3
Std Dev 0

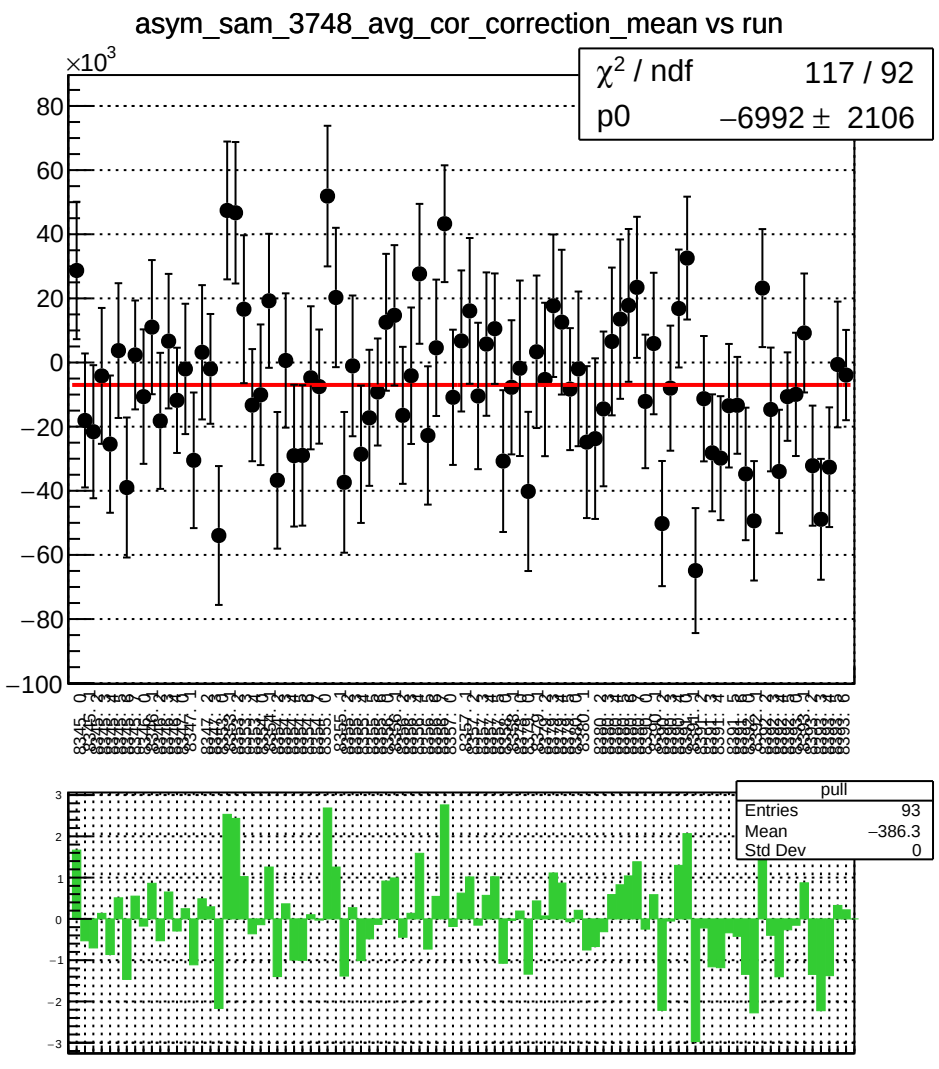

pull1D
Entries 93
Mean 0.01181
Std Dev 1.121

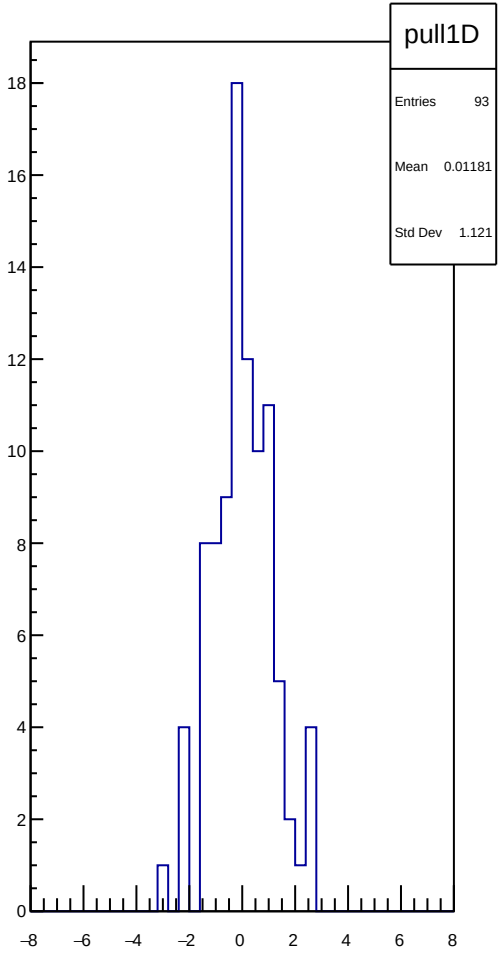

asym_sam_3748_avg_reg_correction_rms vs run
χ² / ndf 1.018e+04 / 92
p0 2003 ± 1.489
2400
2300
2200
2100
2000
1900
1800
1700

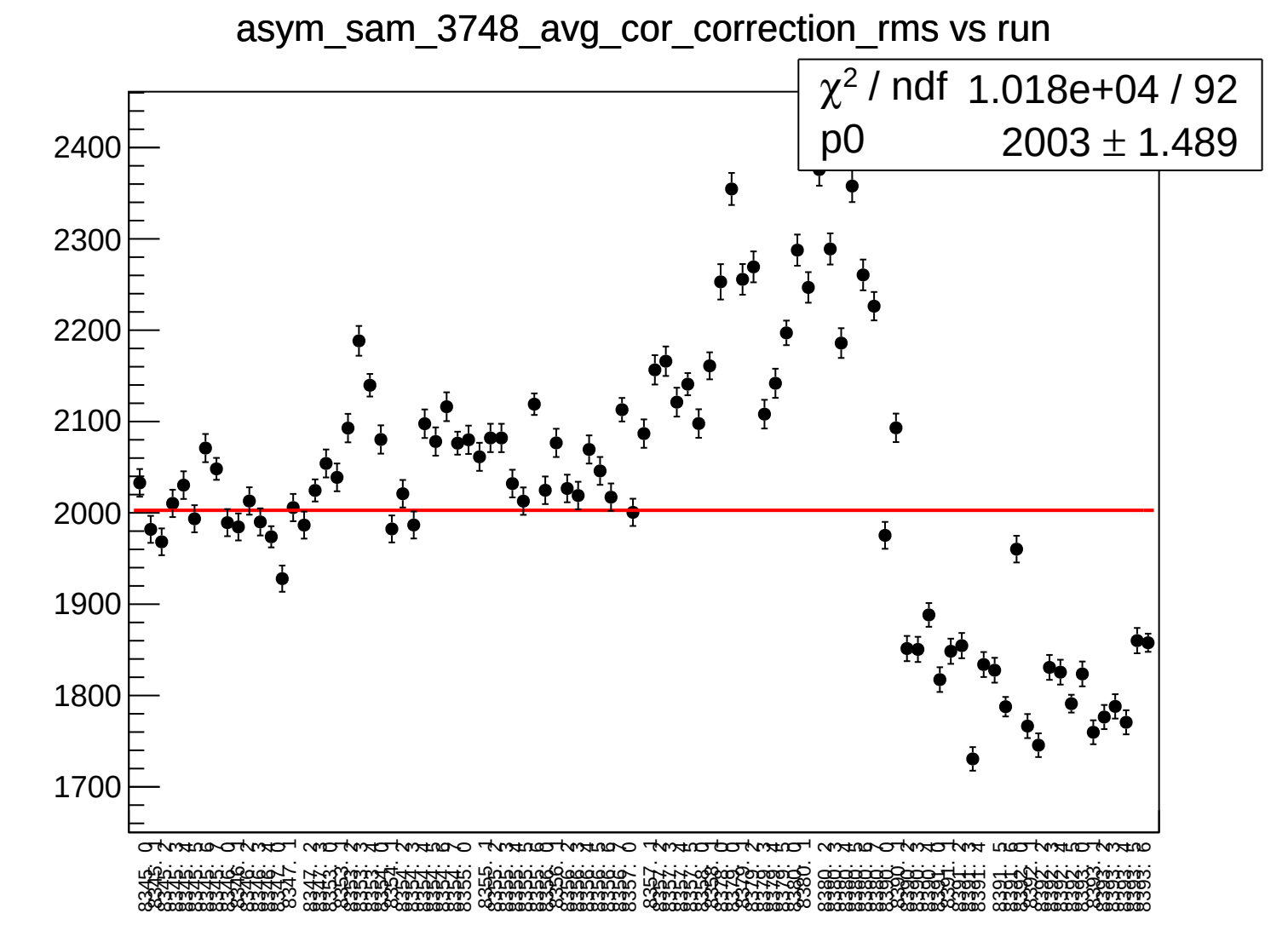

cor_asym_sam_3748_avg_mean vs run
χ² / ndf 100 / 92
p0 −300.1 ± 150.3
pull
Entries 93
Mean 40.73
Std Dev 0

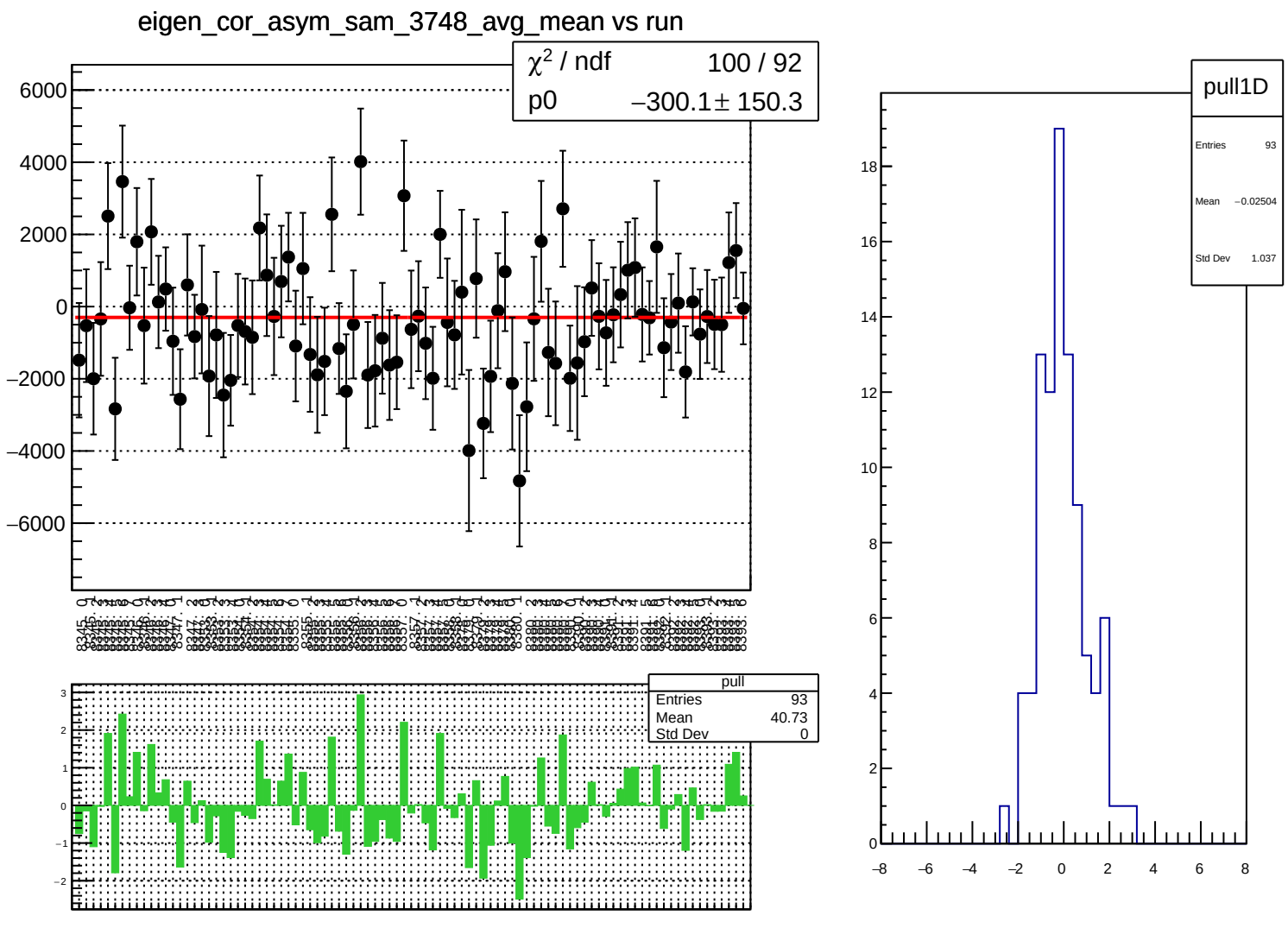

pull1D
Entries 93
Mean −0.02504
Std Dev 1.037

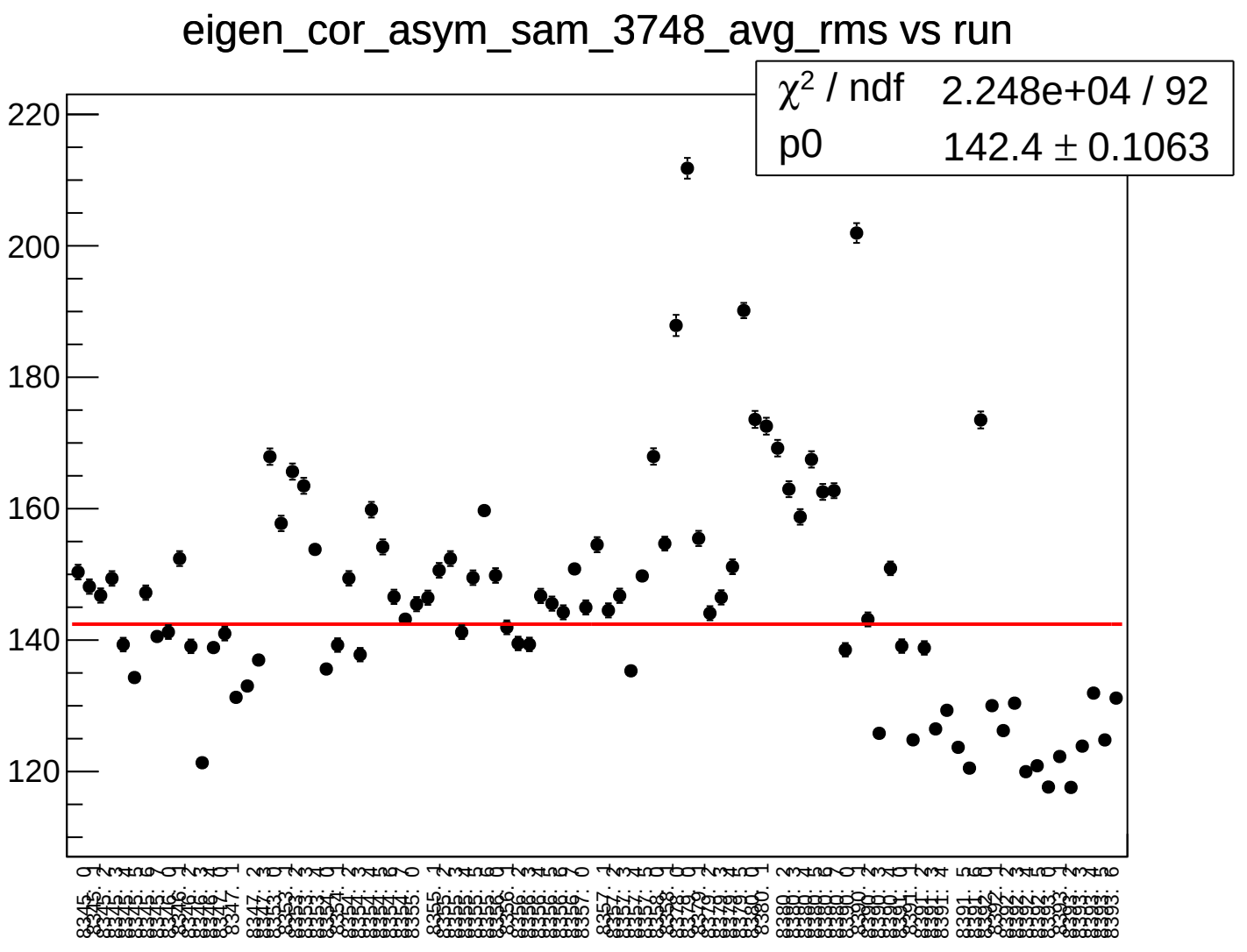

cor_asym_sam_3748_avg_rms vs run
χ^2 / ndf 2.248e+04 / 92
p0 142.4 ± 0.1063
220
200
180
160
140
120

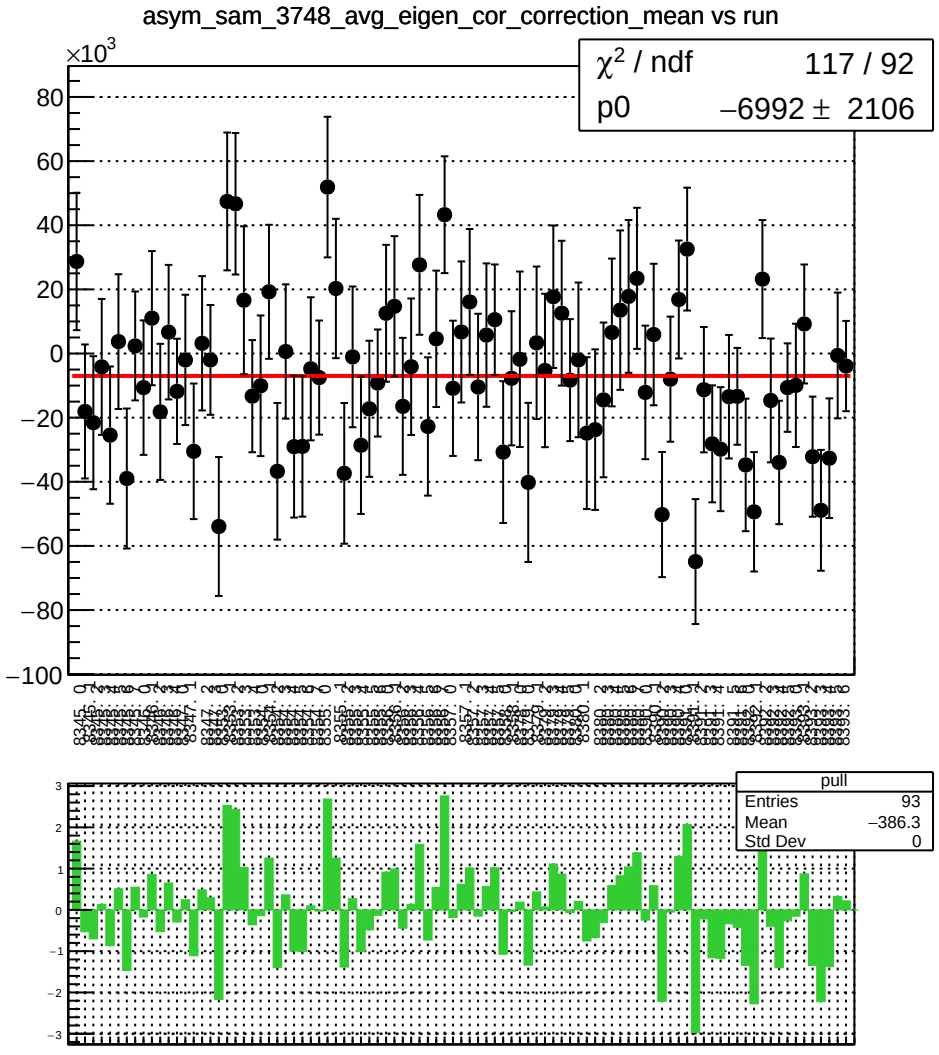

asym_sam_3748_avg_cor_correction_mean vs run
×10^3
χ² / ndf 117 / 92
p0 −6992 ± 2106
pull
Entries 93
Mean −386.3
Std Dev 0

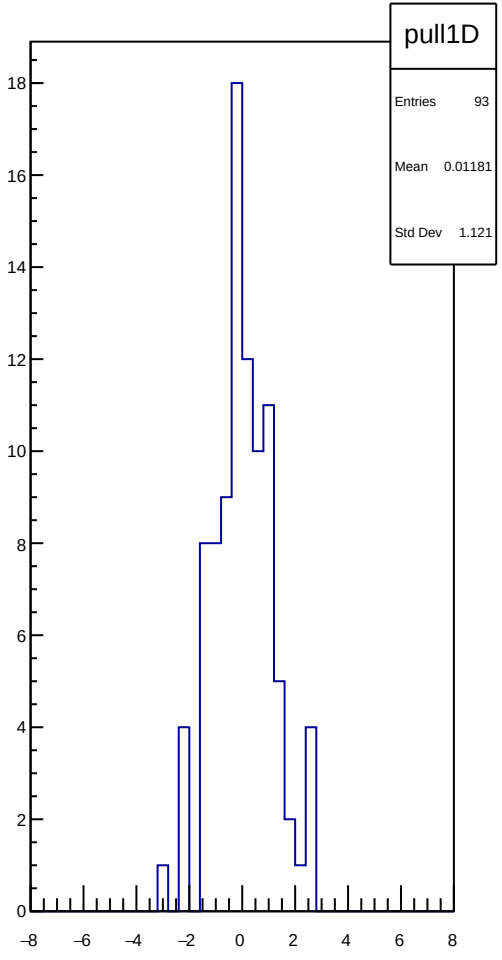

pull1D
Entries 93
Mean 0.01181
Std Dev 1.121

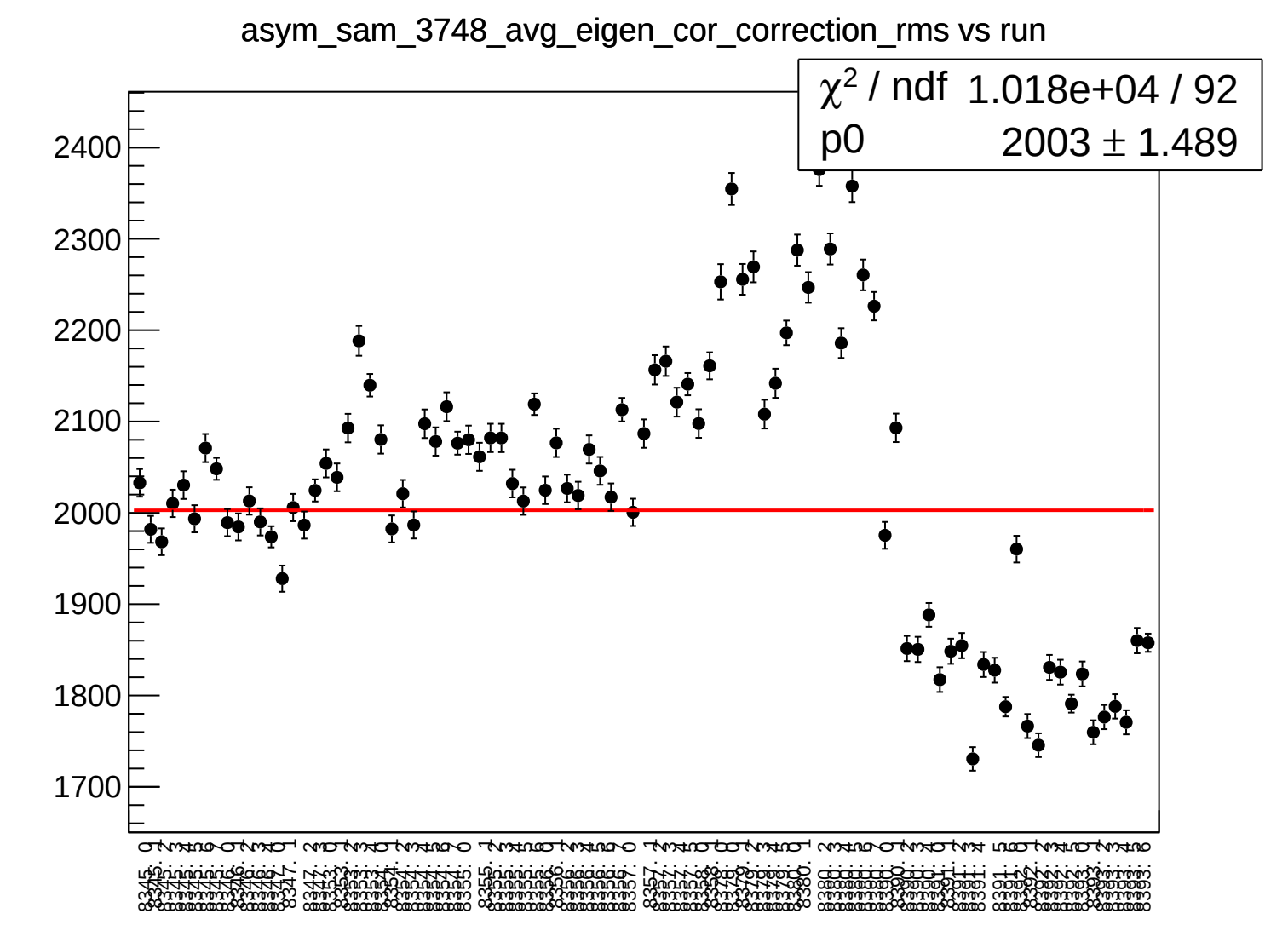

asym_sam_3748_avg_cor_correction_rms vs run
χ² / ndf 1.018e+04 / 92
p0 2003 ± 1.489
2400
2300
2200
2100
2000
1900
1800
1700

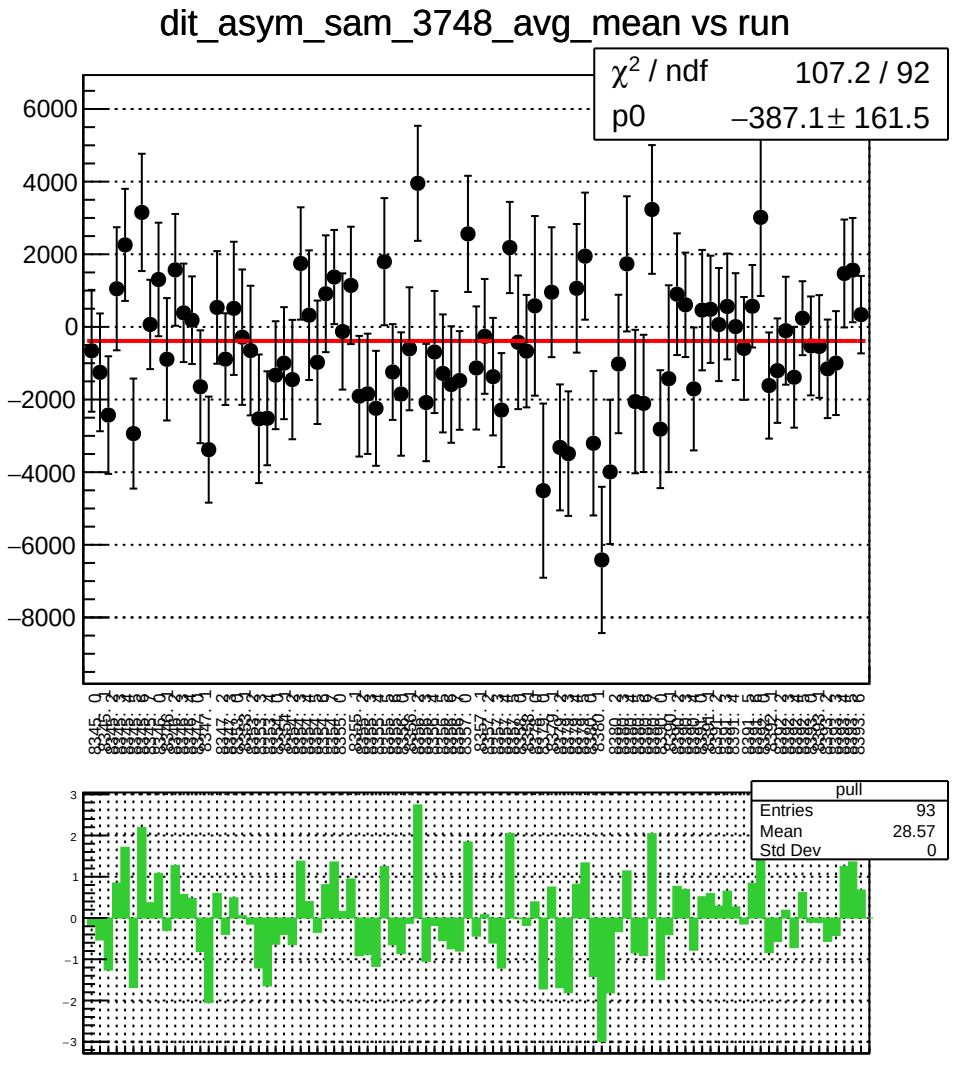

eigen_cor_asym_sam_3748_avg_mean vs run
χ² / ndf 100 / 92
p0 −300.1± 150.3
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean 40.73
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.02504
Std Dev 1.037
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

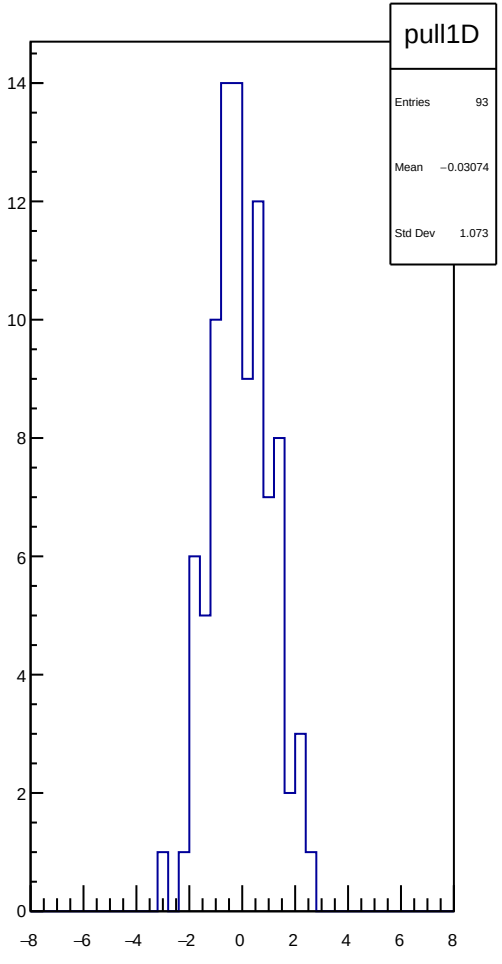

eigen_cor_asym_sam_3748_avg_rms vs run
χ² / ndf 2.248e+04 / 92
p0 142.4 ± 0.1063
220
200
180
160
140
120

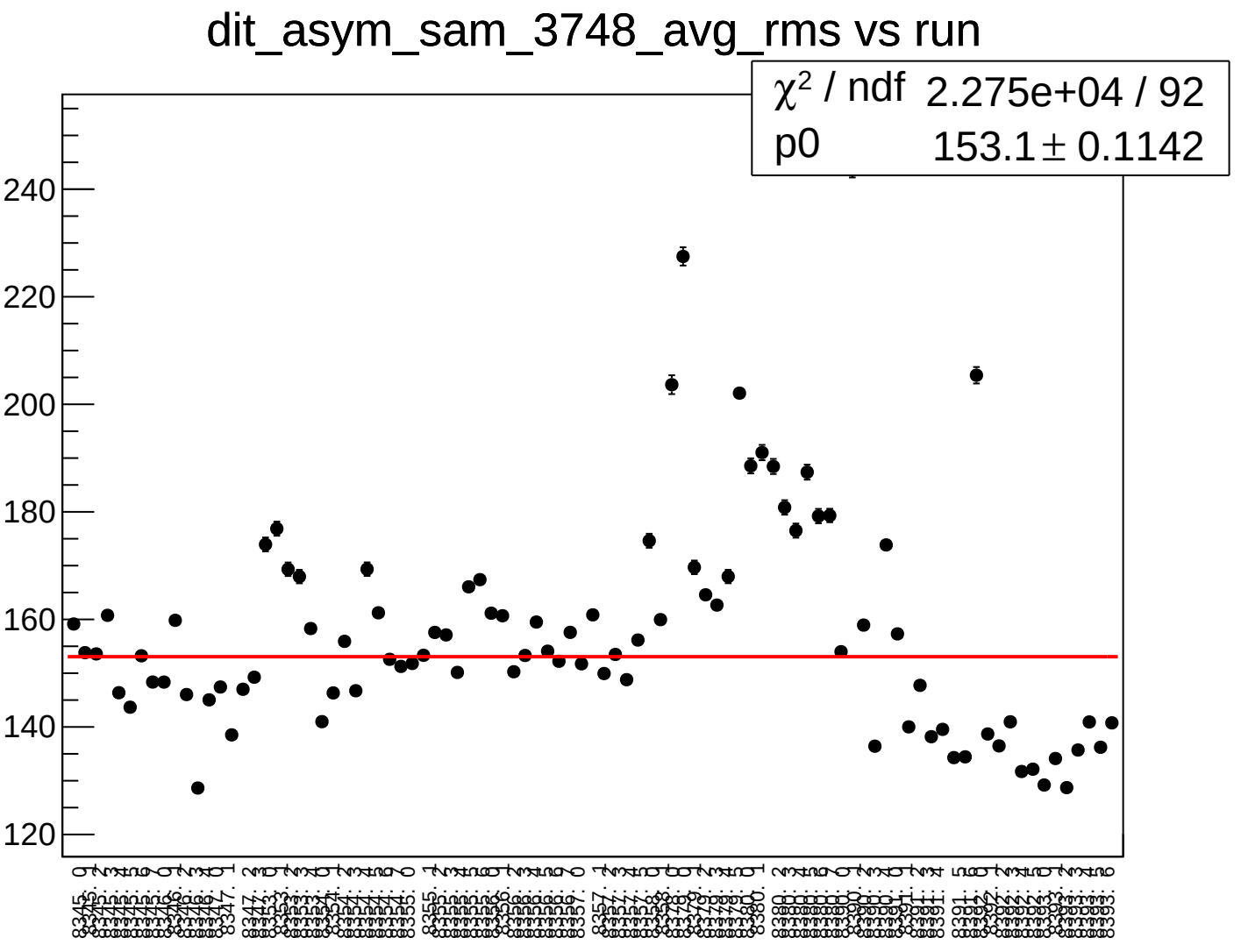

asym_sam_3748_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 117 / 92
p0 −6992 ± 2106
pull
Entries 93
Mean −386.3
Std Dev 0

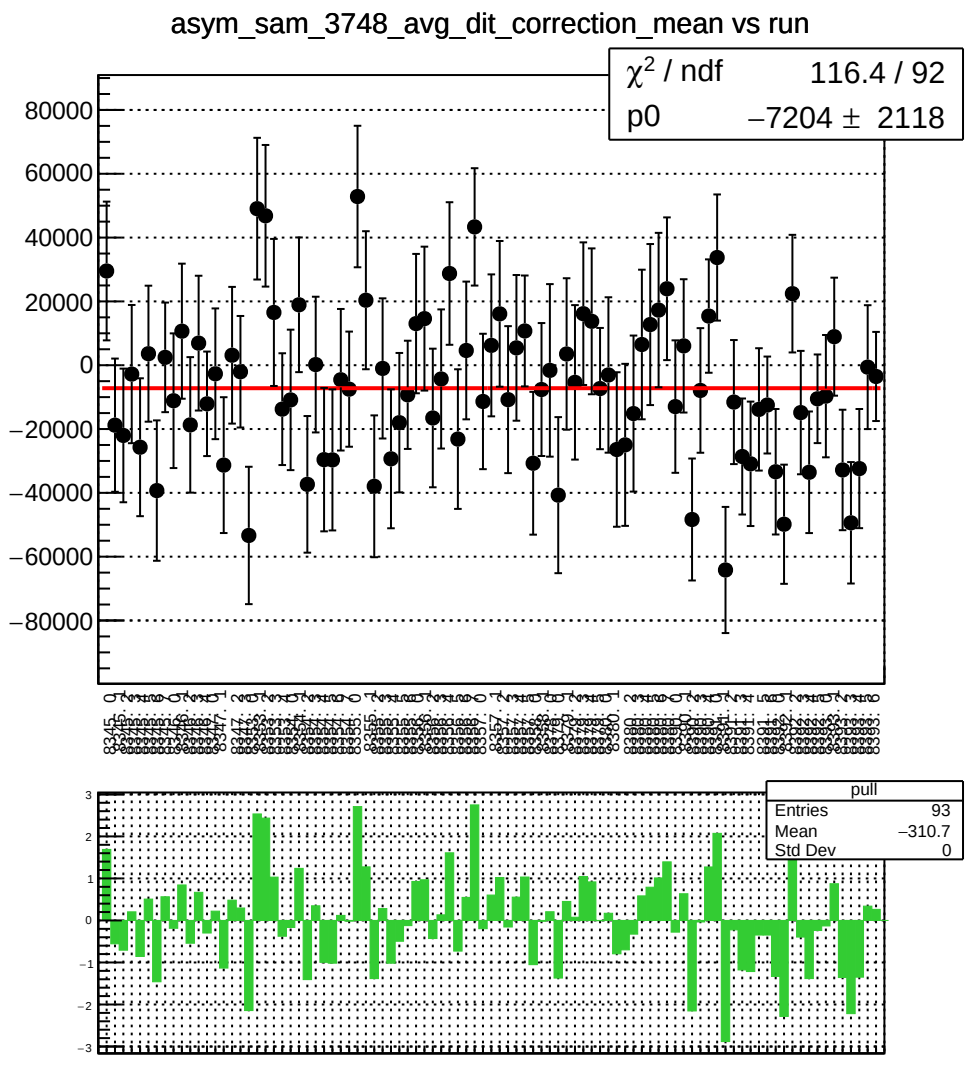

pull1D
Entries 93
Mean 0.01181
Std Dev 1.121

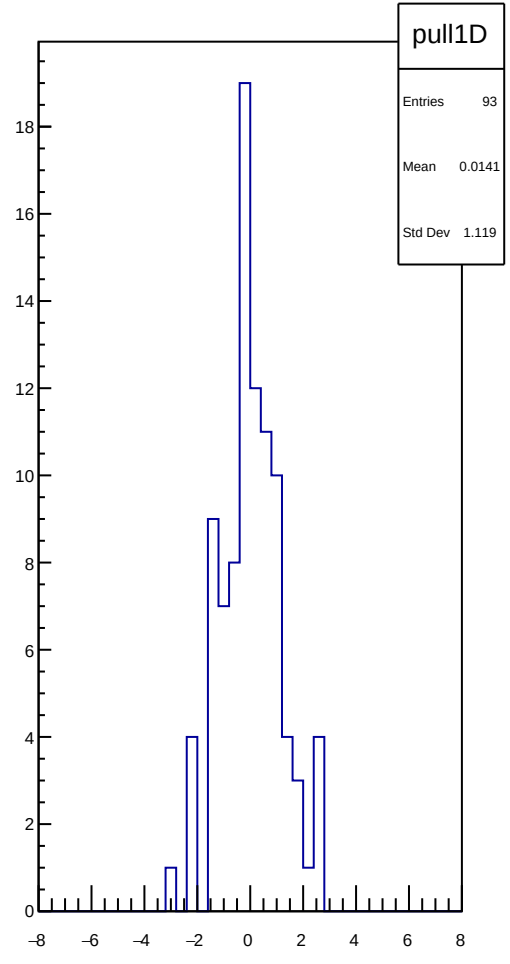

asym_sam_3748_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.018e+04 / 92
p0 2003 ± 1.489
2400
2300
2200
2100
2000
1900
1800
1700

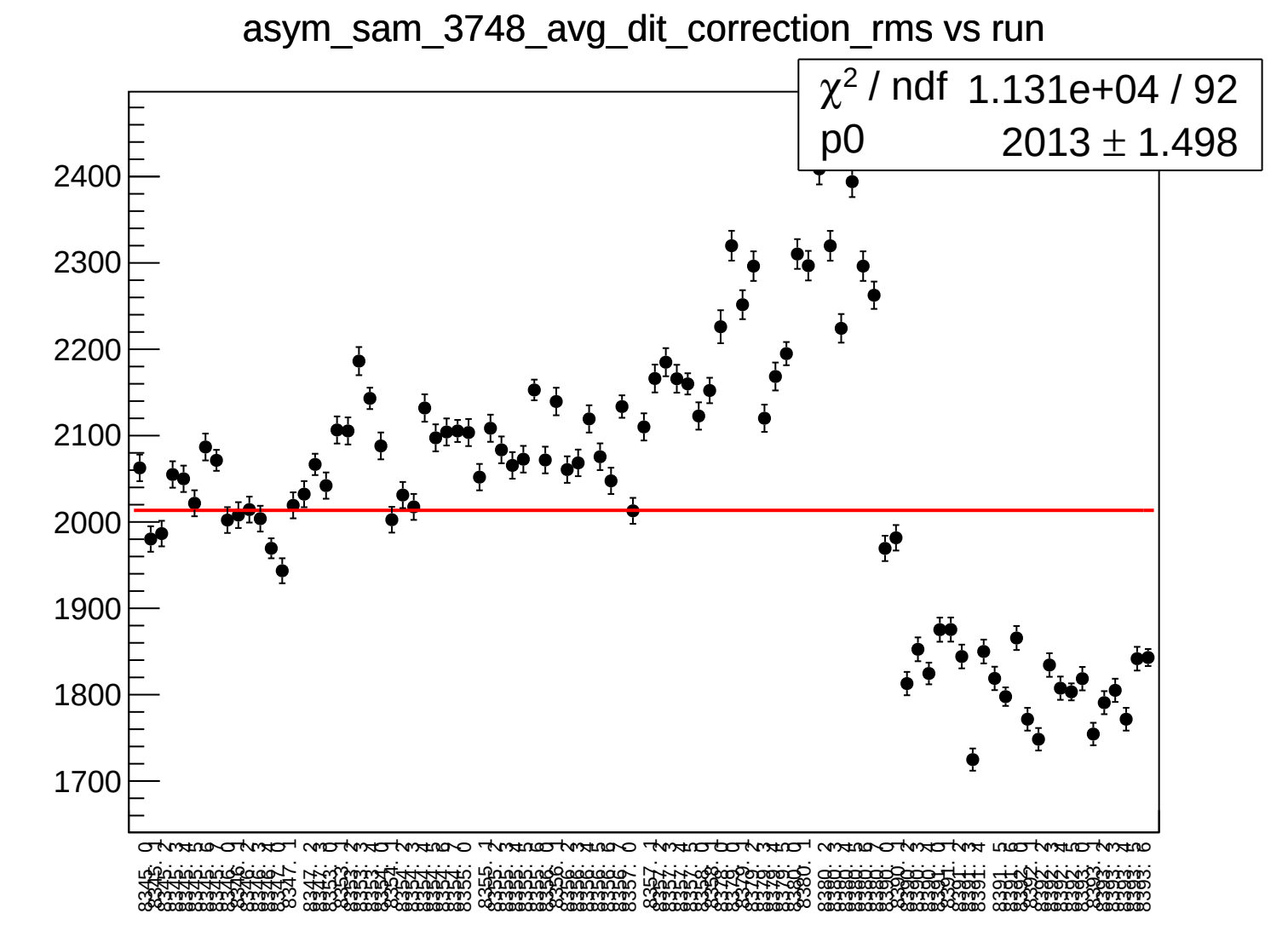

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 107.2 / 92
p0 −387.1± 161.5
pull
Entries 93
Mean 28.57
Std Dev 0

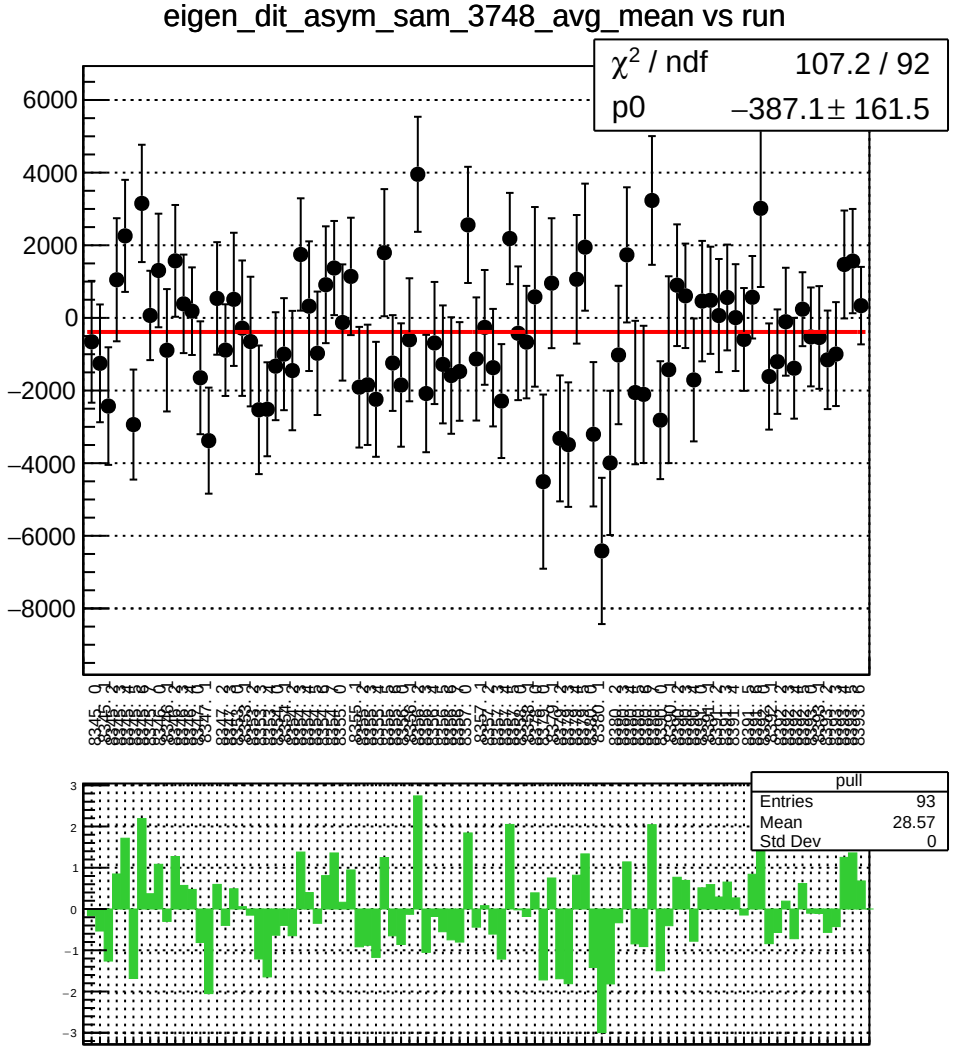

pull1D
Entries 93
Mean −0.03074
Std Dev 1.073

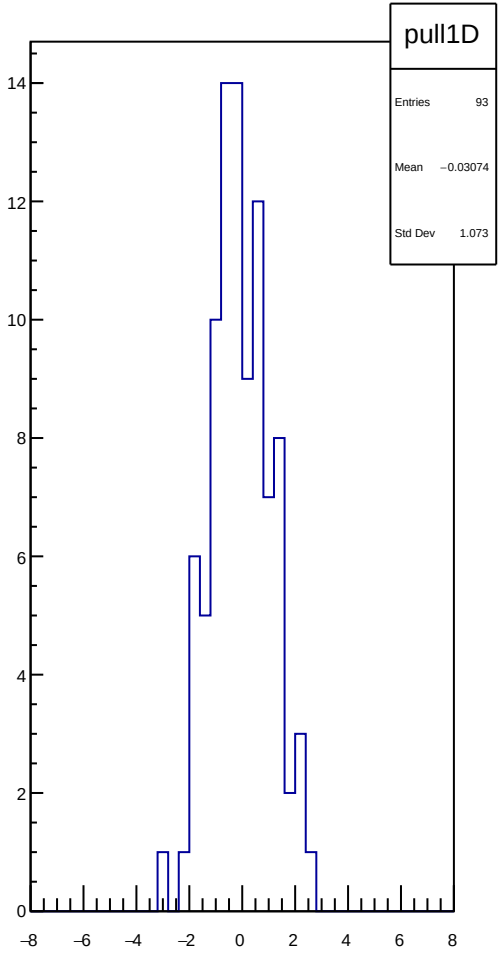

dit_asym_sam_3748_avg_rms vs run
χ² / ndf 2.275e+04 / 92
p0 153.1 ± 0.1142
240
220
200
180
160
140
120

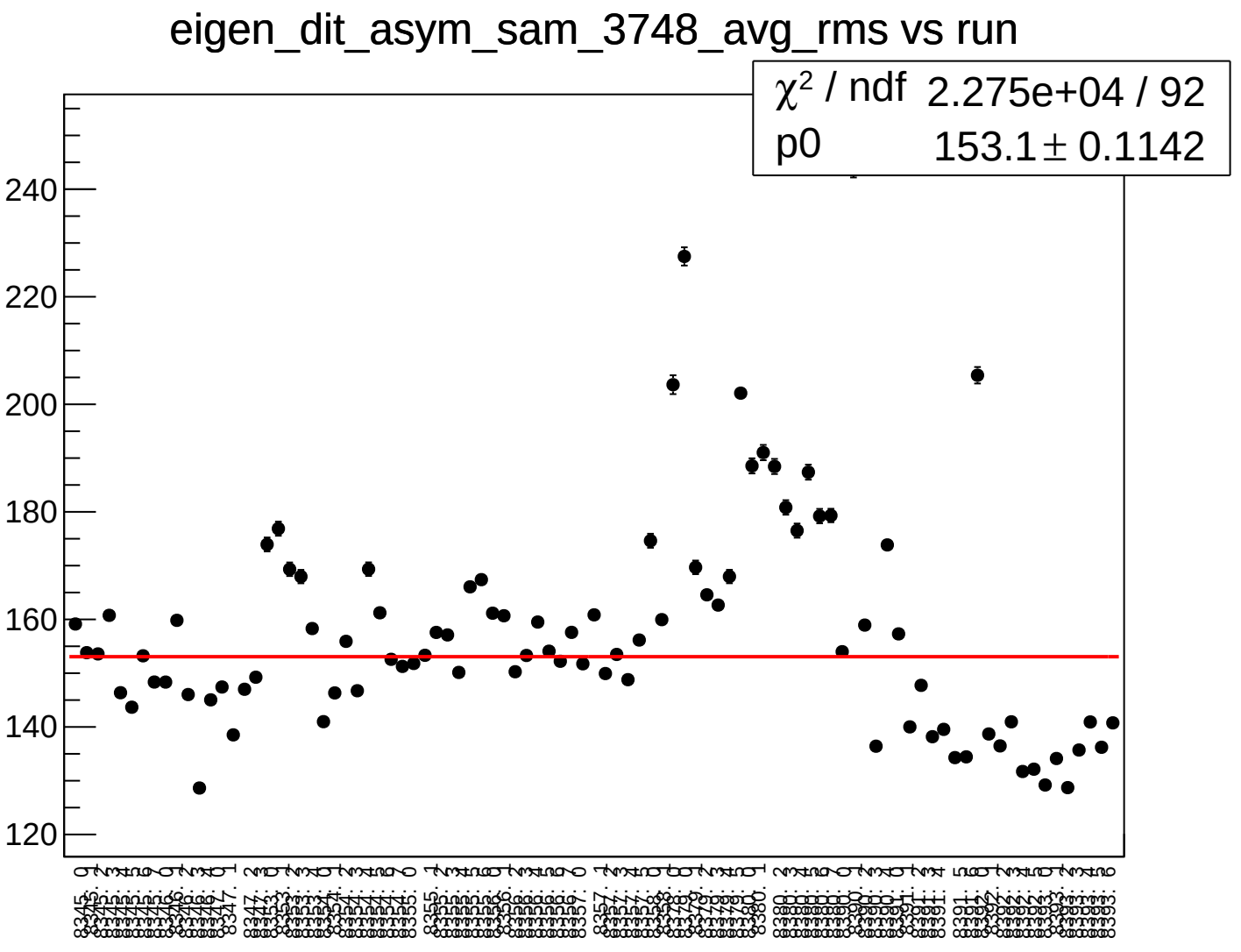

asym_sam_3748_avg_dit_correction_mean vs run
χ² / ndf 116.4 / 92
p0 −7204 ± 2118
pull
Entries 93
Mean −310.7
Std Dev 0

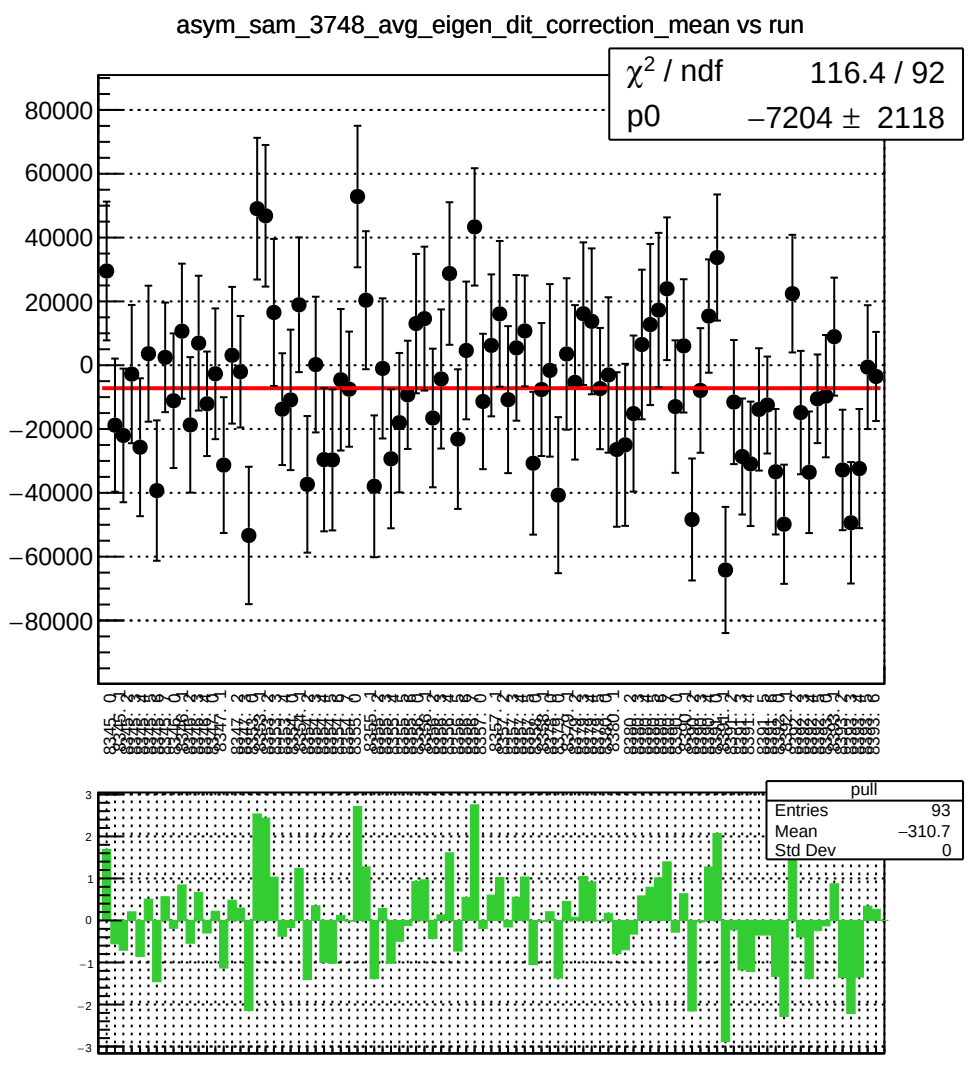

pull1D
Entries 93
Mean 0.0141
Std Dev 1.119

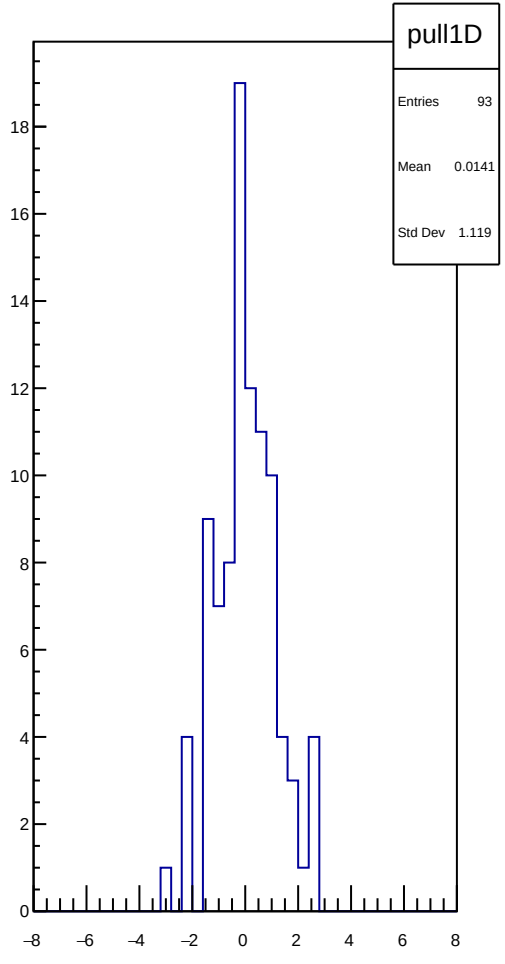

asym_sam_3748_avg_dit_correction_rms vs run
χ² / ndf 1.131e+04 / 92
p0 2013 ± 1.498
2400
2300
2200
2100
2000
1900
1800
1700

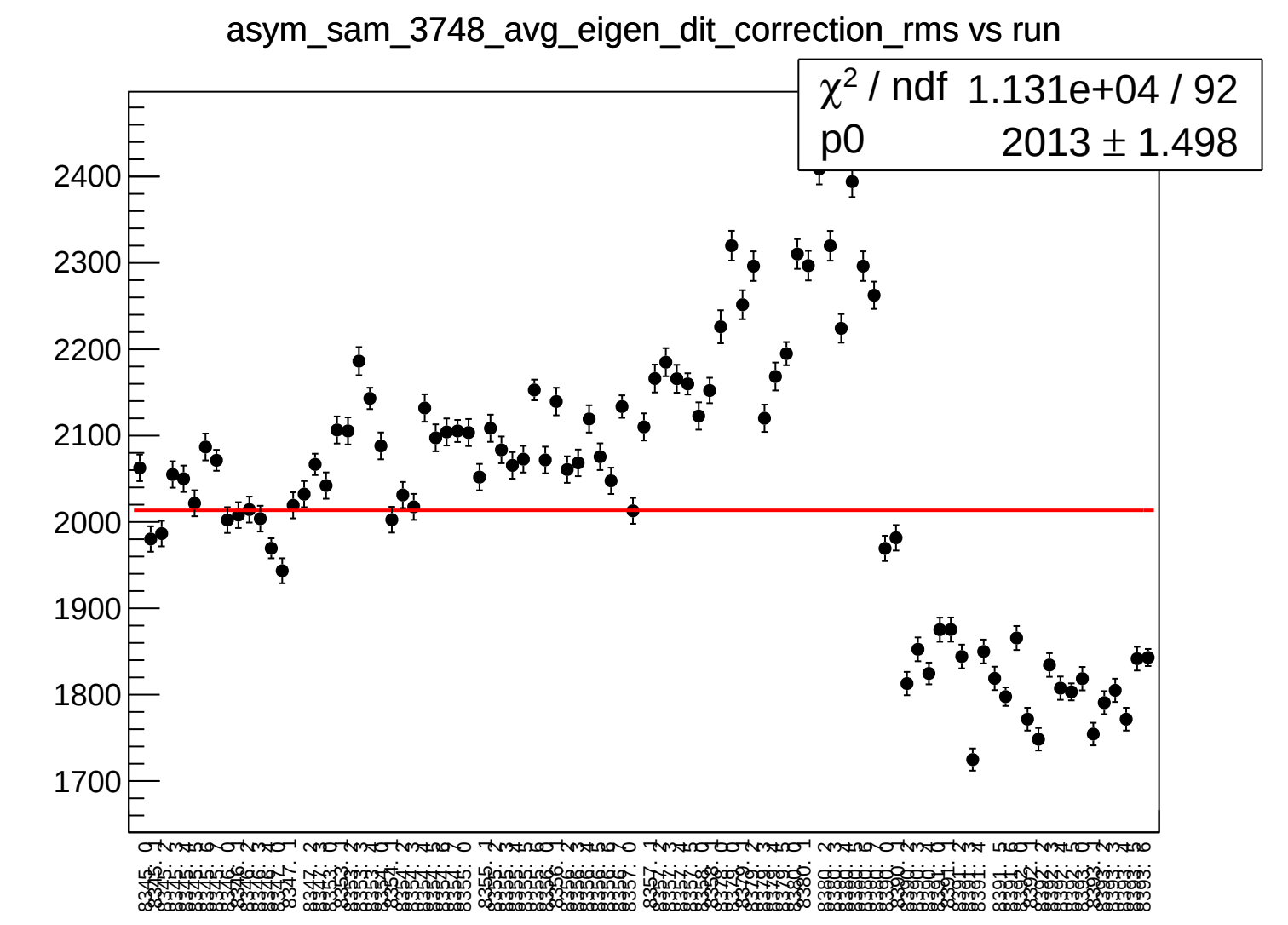

eigen_dit_asym_sam_3748_avg_mean vs run
χ² / ndf 107.2 / 92
p0 −387.1± 161.5
pull
Entries 93
Mean 28.57
Std Dev 0

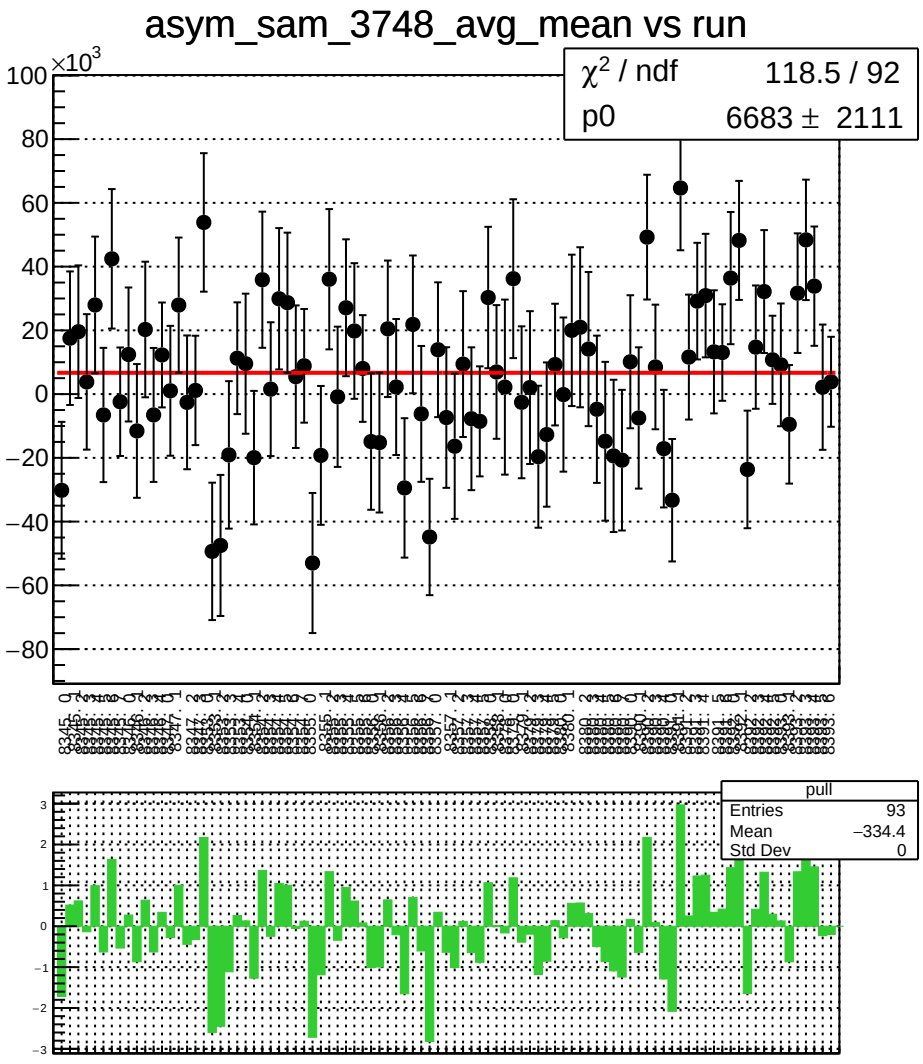

pull1D
Entries 93
Mean −0.03074
Std Dev 1.073

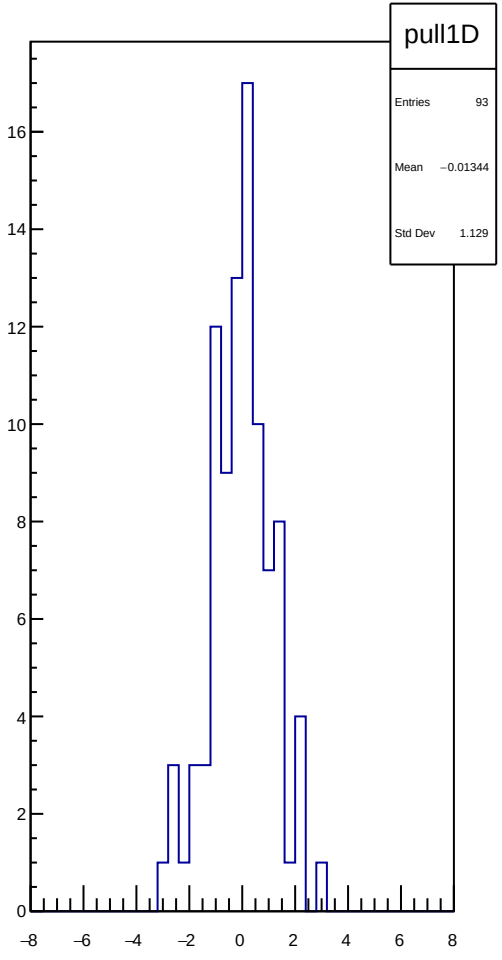

eigen_dit_asym_sam_3748_avg_rms vs run
χ² / ndf 2.275e+04 / 92
p0 153.1 ± 0.1142
240
220
200
180
160
140
120

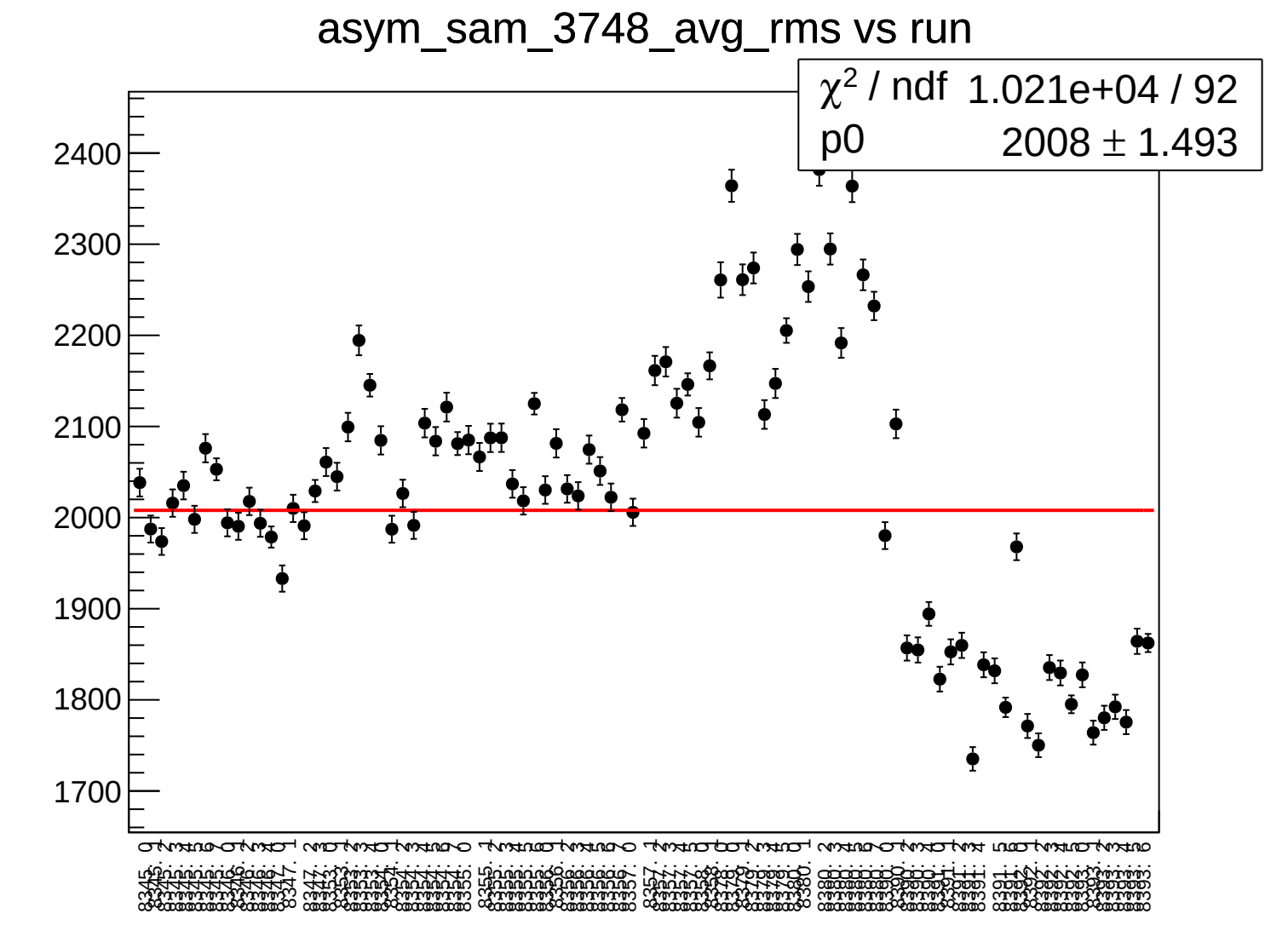

asym_sam_3748_avg_eigen_dit_correction_mean vs run
χ² / ndf 116.4 / 92
p0 −7204 ± 2118
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean −310.7
Std Dev 0
3
2
1
0
−1
−2
−3

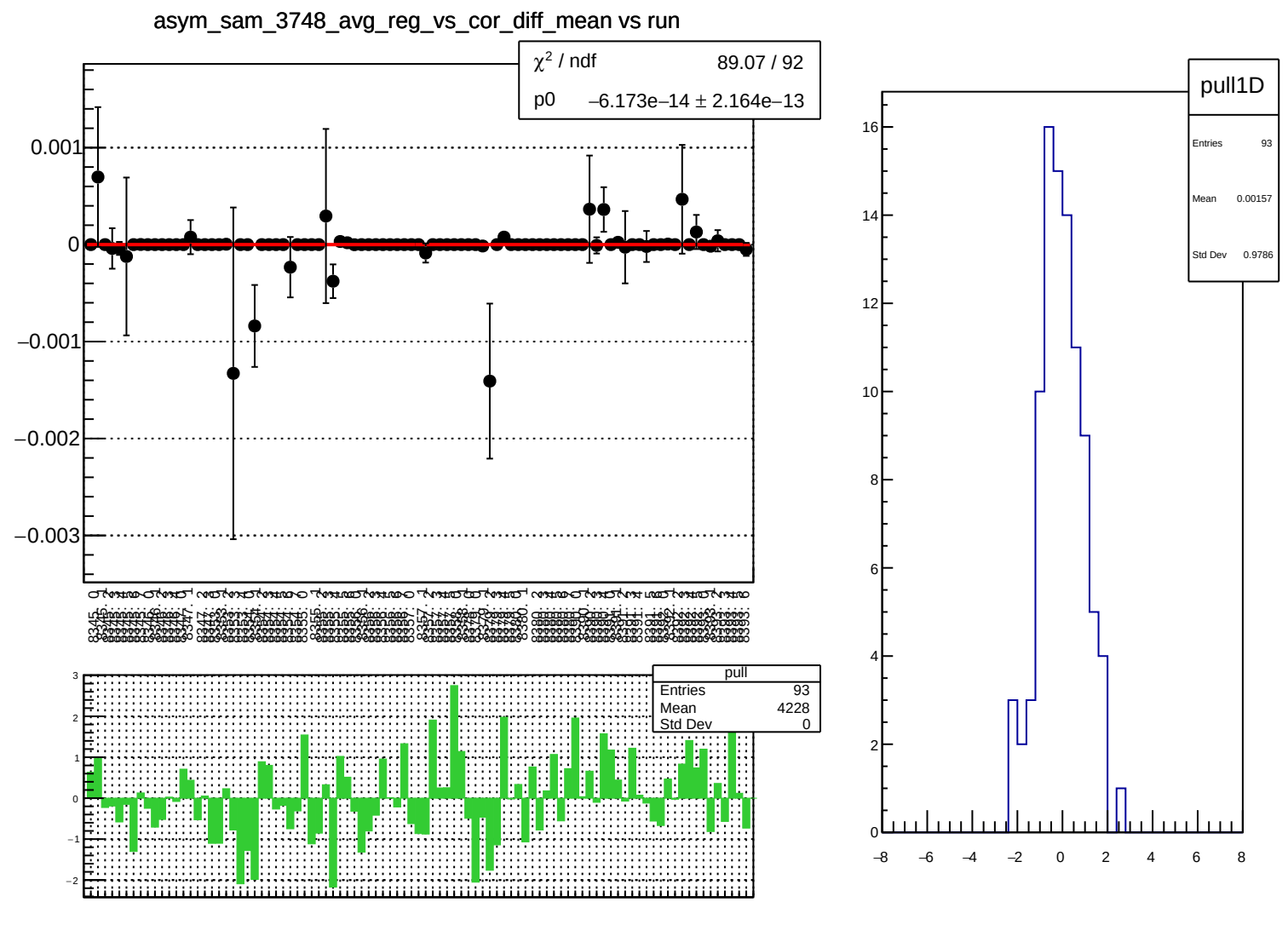

pull1D
Entries 93
Mean 0.0141
Std Dev 1.119
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

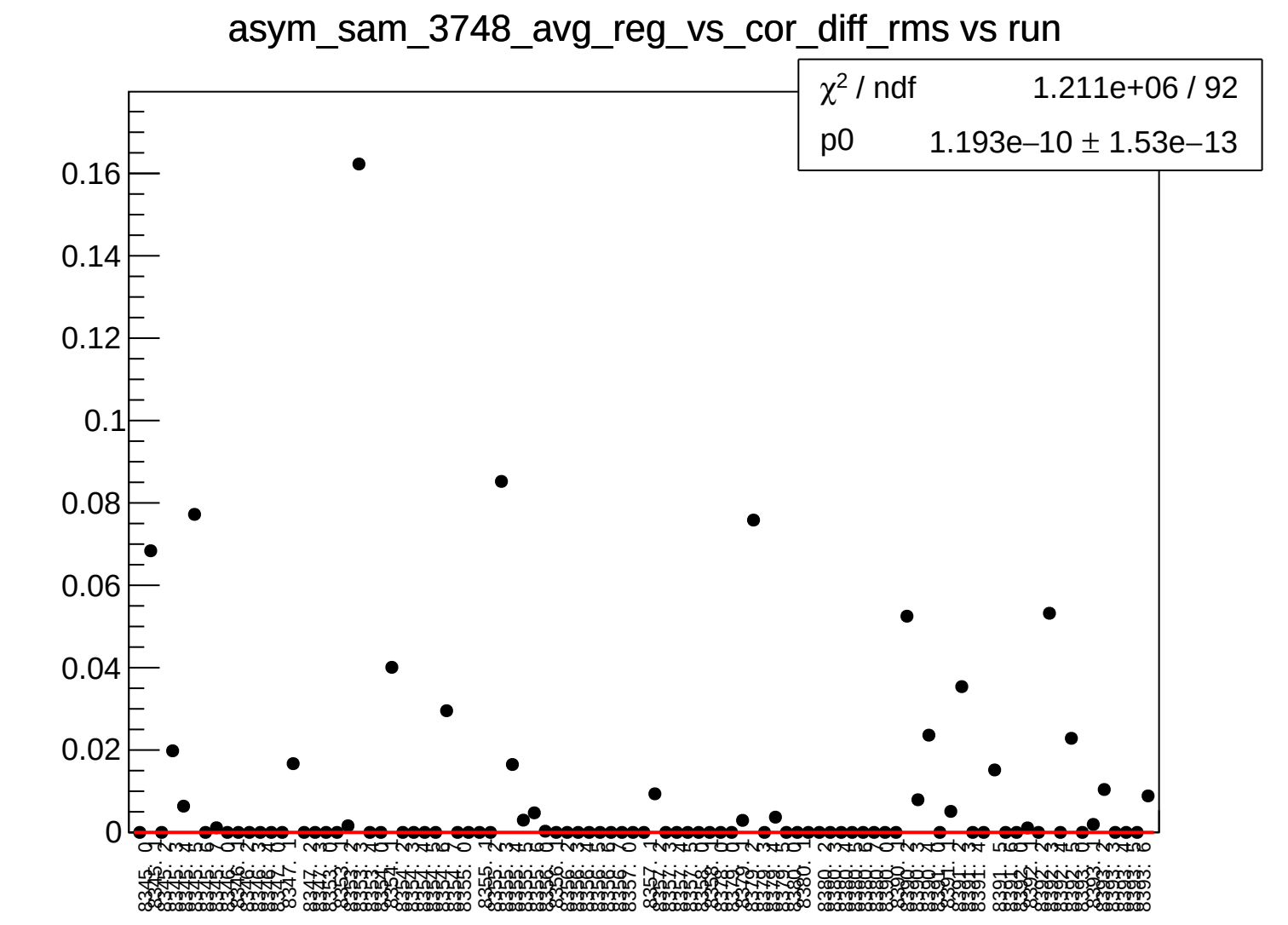

asym_sam_3748_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.131e+04 / 92
p0 2013 ± 1.498
2400
2300
2200
2100
2000
1900
1800
1700

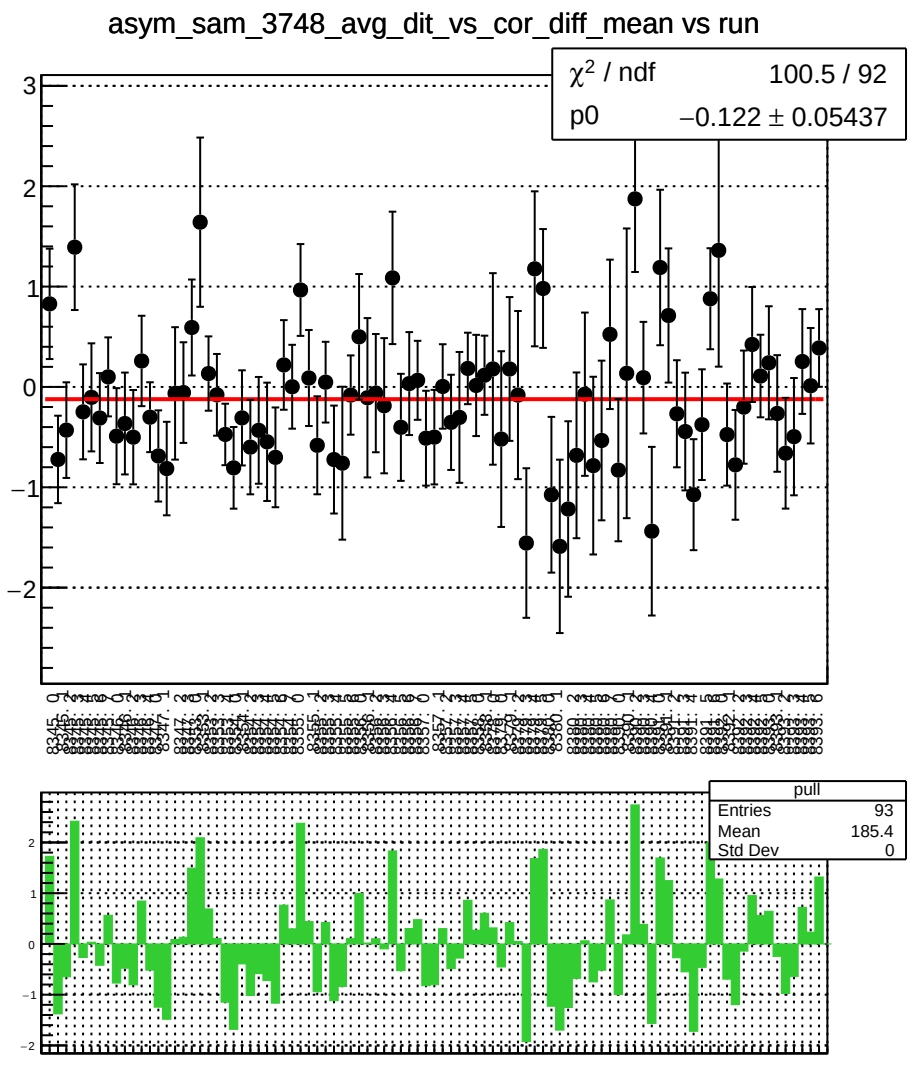

asym_sam_3748_avg_mean vs run
χ² / ndf 118.5 / 92
p0 6683 ± 2111
×10³
pull
Entries 93
Mean −334.4
Std Dev 0

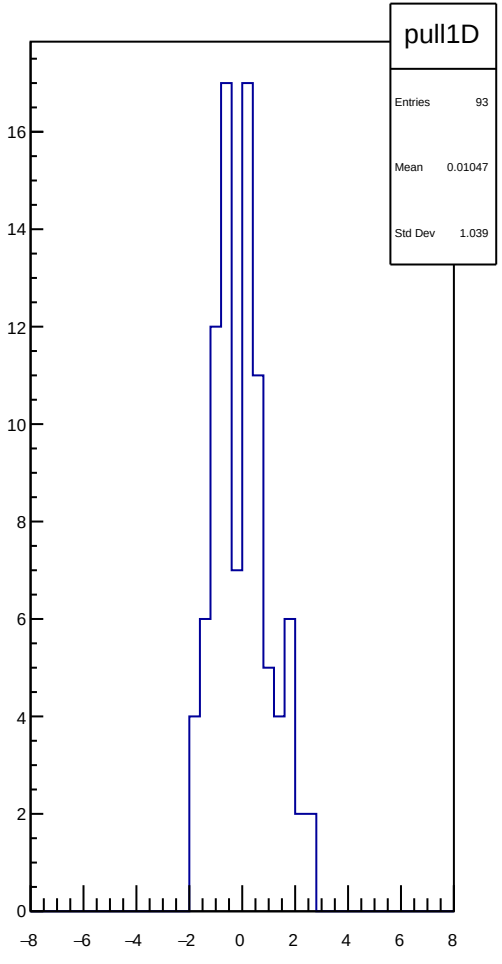

pull1D
Entries 93
Mean −0.01344
Std Dev 1.129

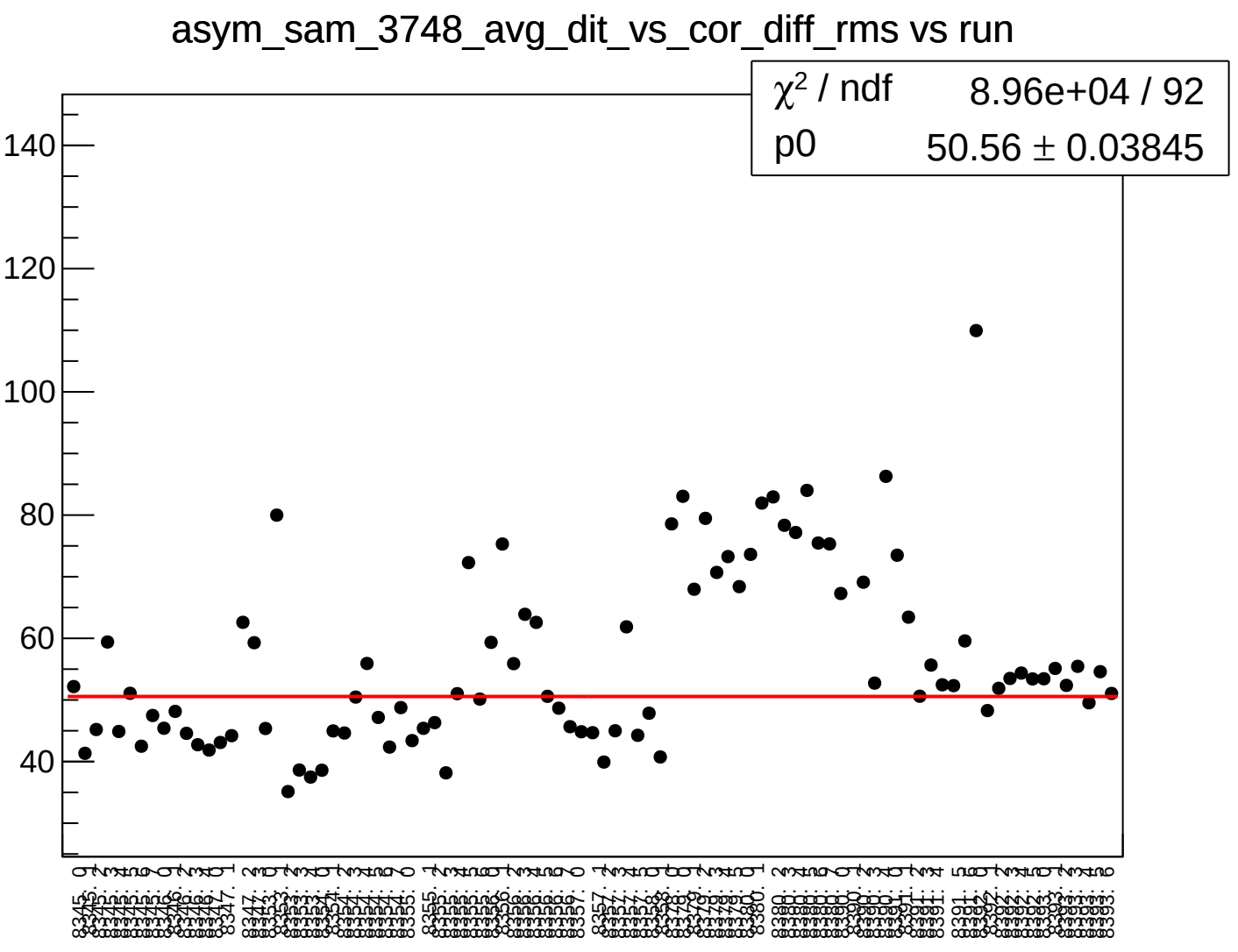

asym_sam_3748_avg_rms vs run
χ^2 / ndf 1.021e+04 / 92
p0 2008 ± 1.493
2400
2300
2200
2100
2000
1900
1800
1700

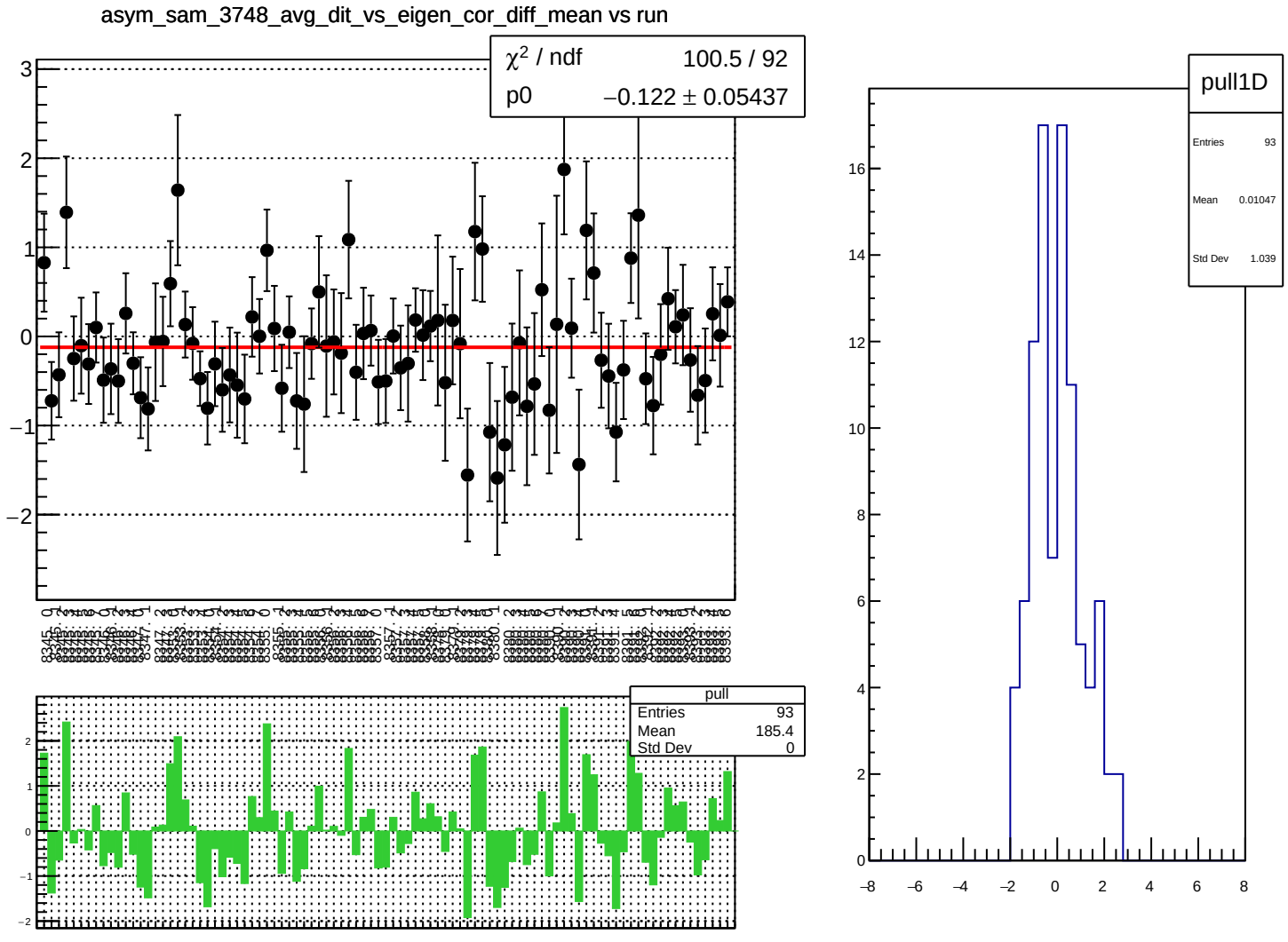

asym_sam_3748_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 89.07 / 92
p0 −6.173e−14 ± 2.164e−13
0.001
0
−0.001
−0.002
−0.003
pull
Entries 93
Mean 4228
Std Dev 0
pull1D
Entries 93
Mean 0.00157
Std Dev 0.9786

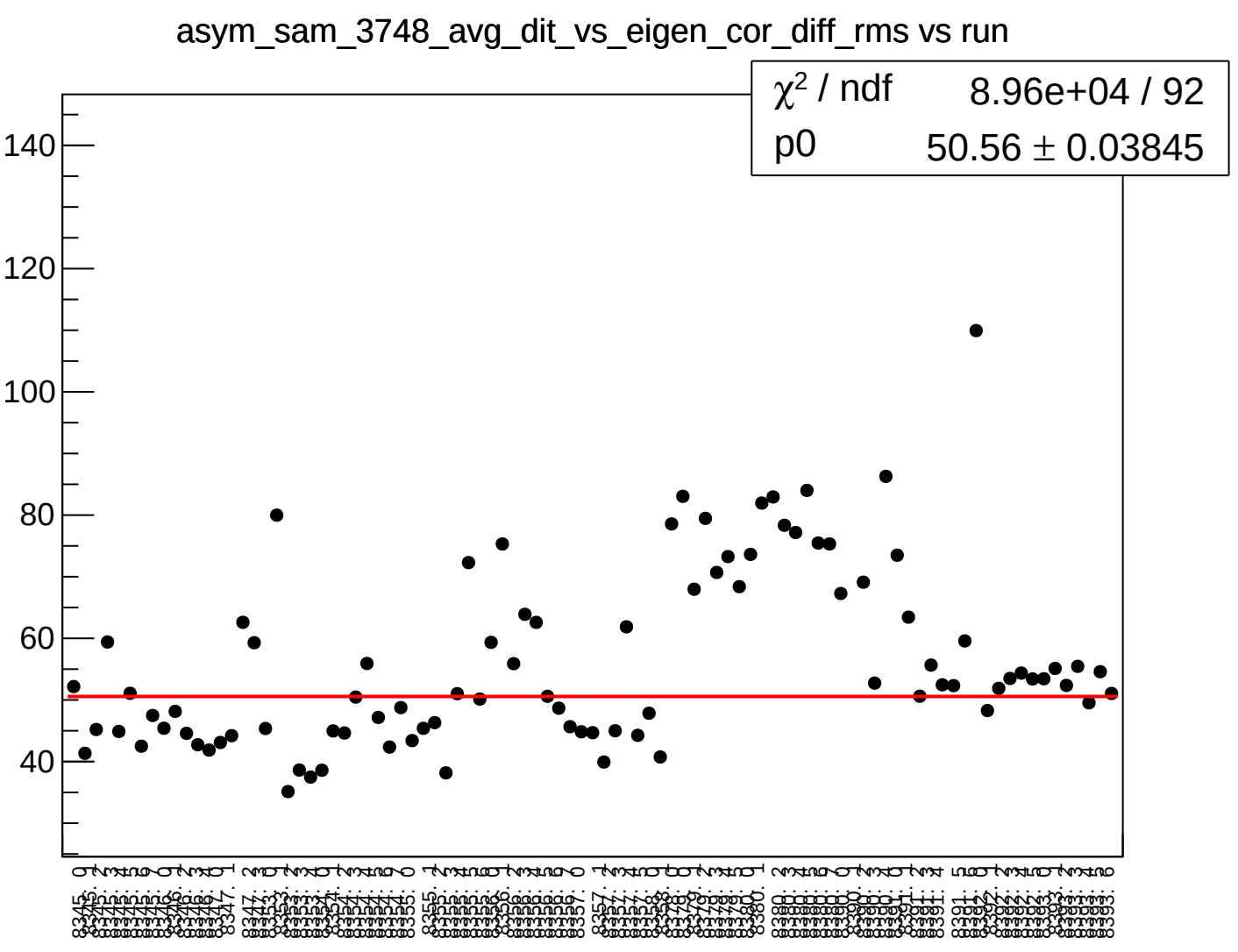

asym_sam_3748_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.211e+06 / 92
p0 1.193e−10 ± 1.53e−13
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

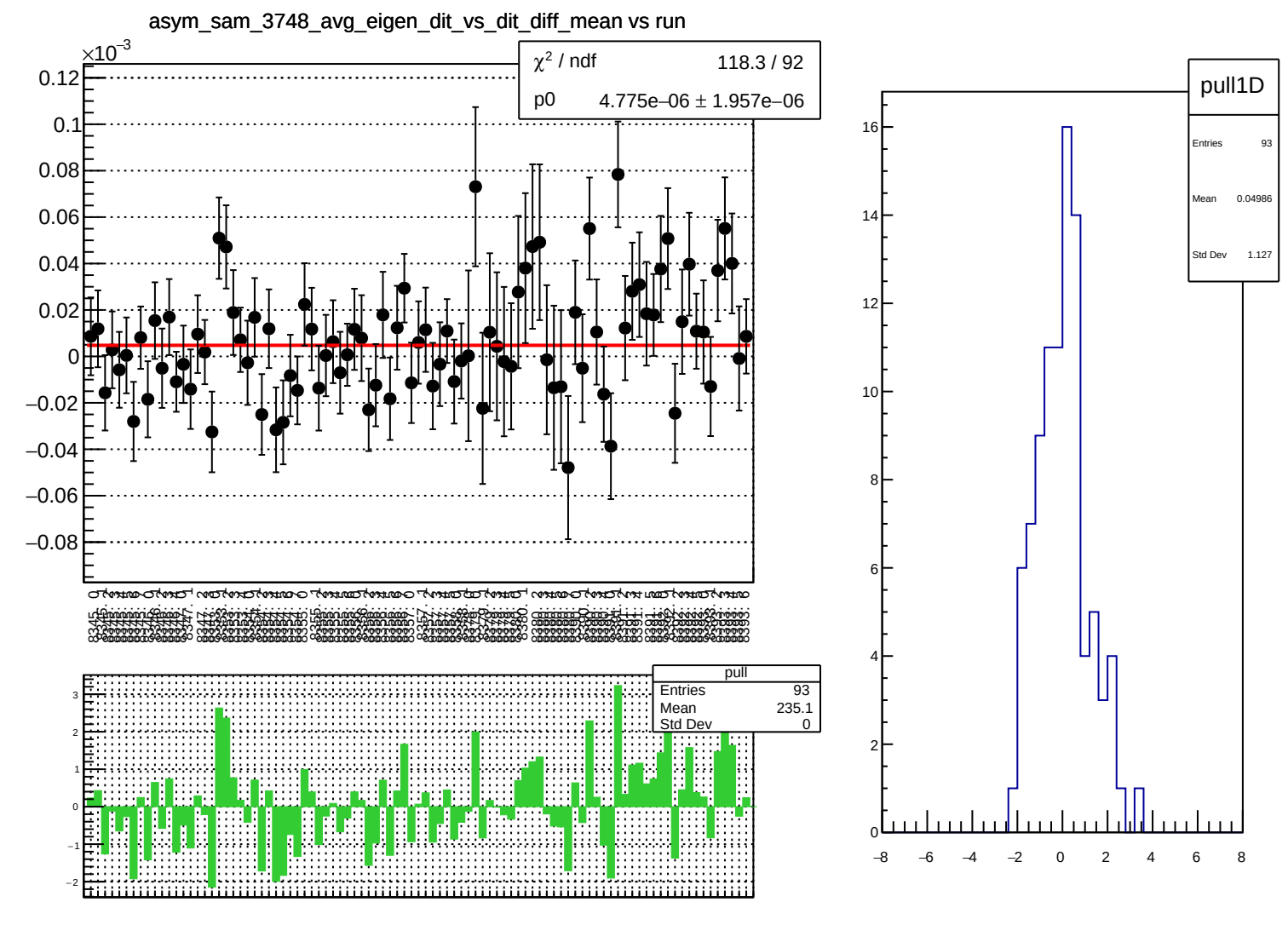

asym_sam_3748_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 100.5 / 92
p0 −0.122 ± 0.05437
pull
Entries 93
Mean 185.4
Std Dev 0

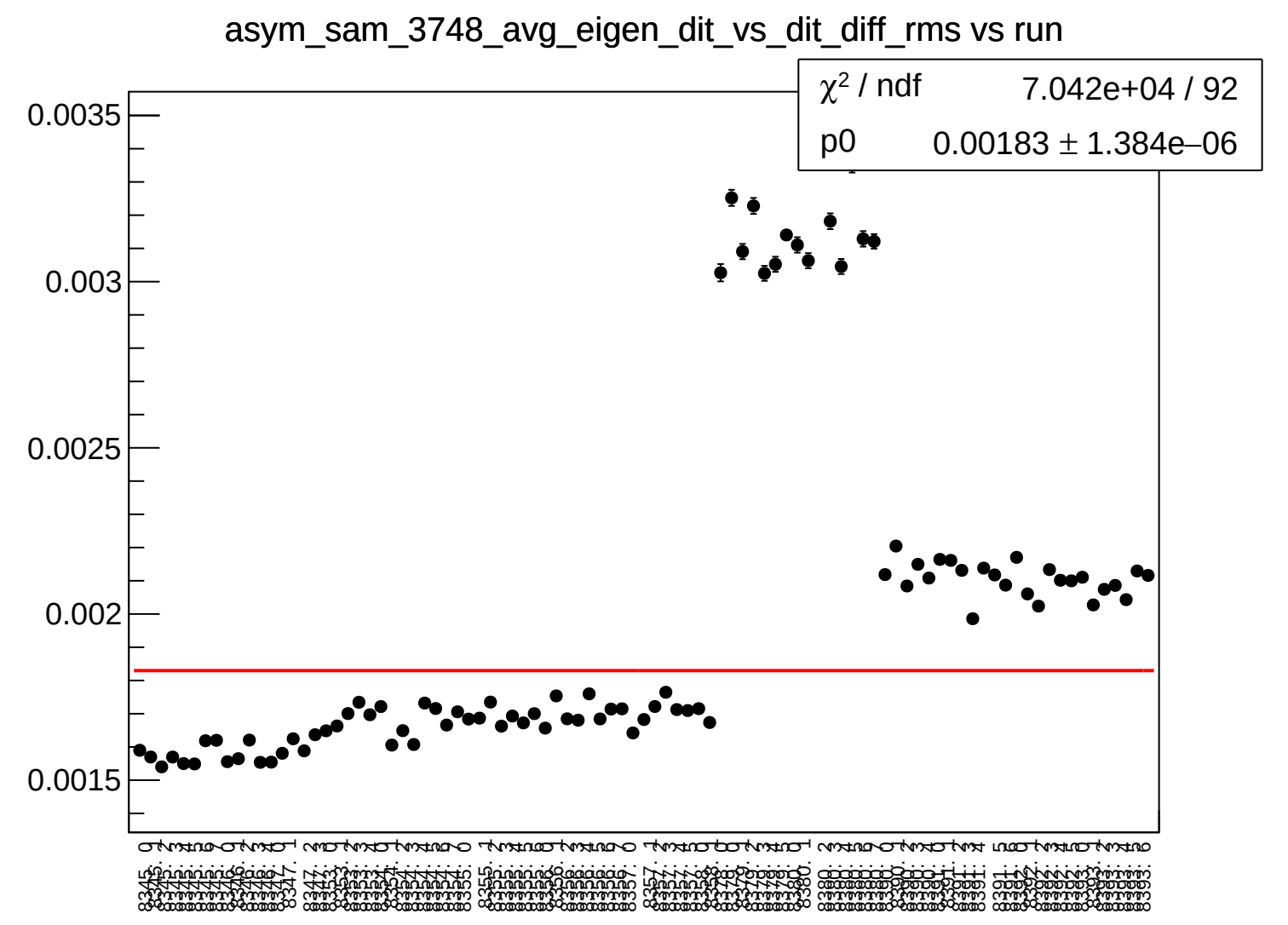

pull1D
Entries 93
Mean 0.01047
Std Dev 1.039

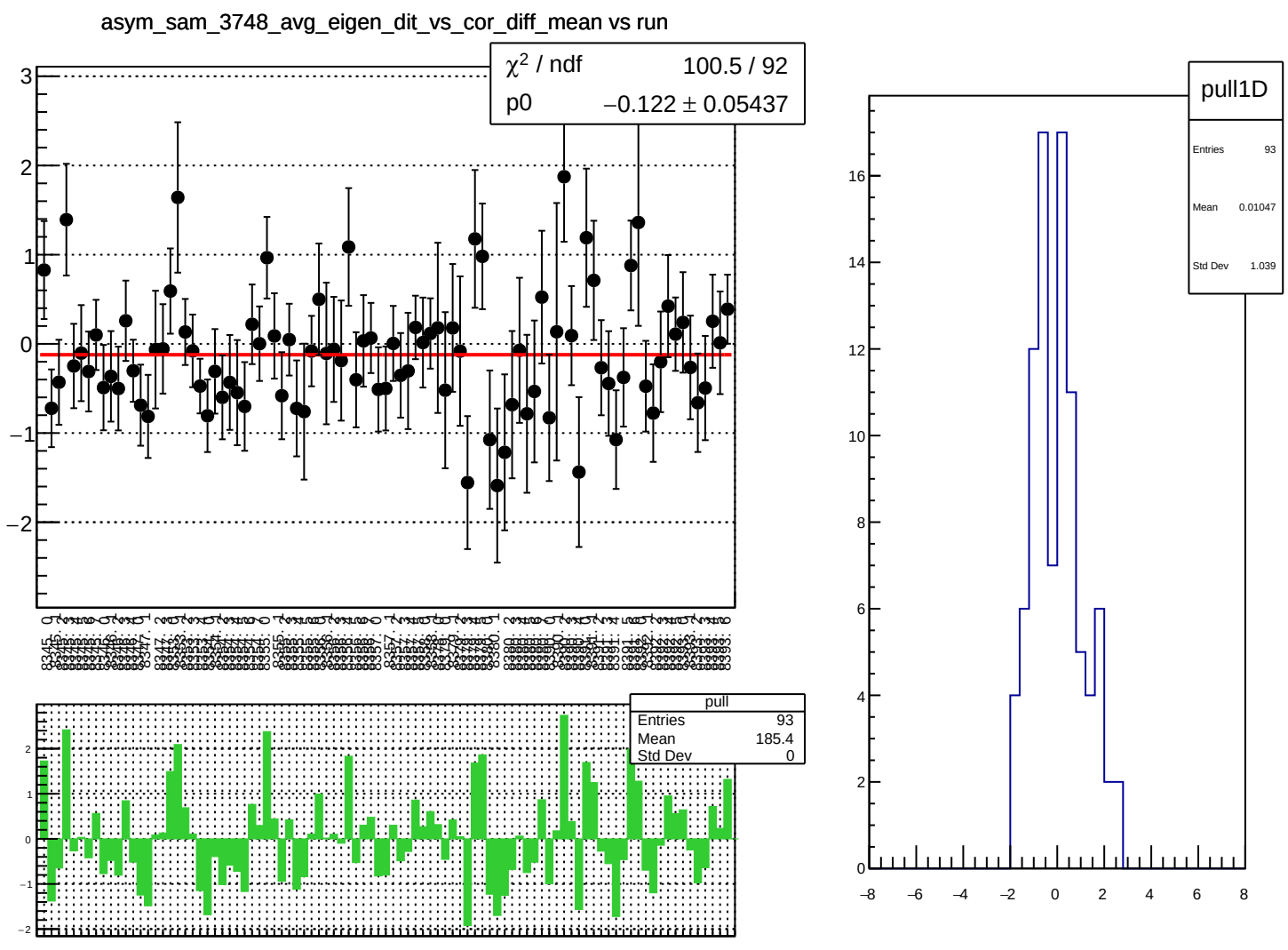

asym_sam_3748_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.96e+04 / 92
p0 50.56 ± 0.03845
140
120
100
80
60
40

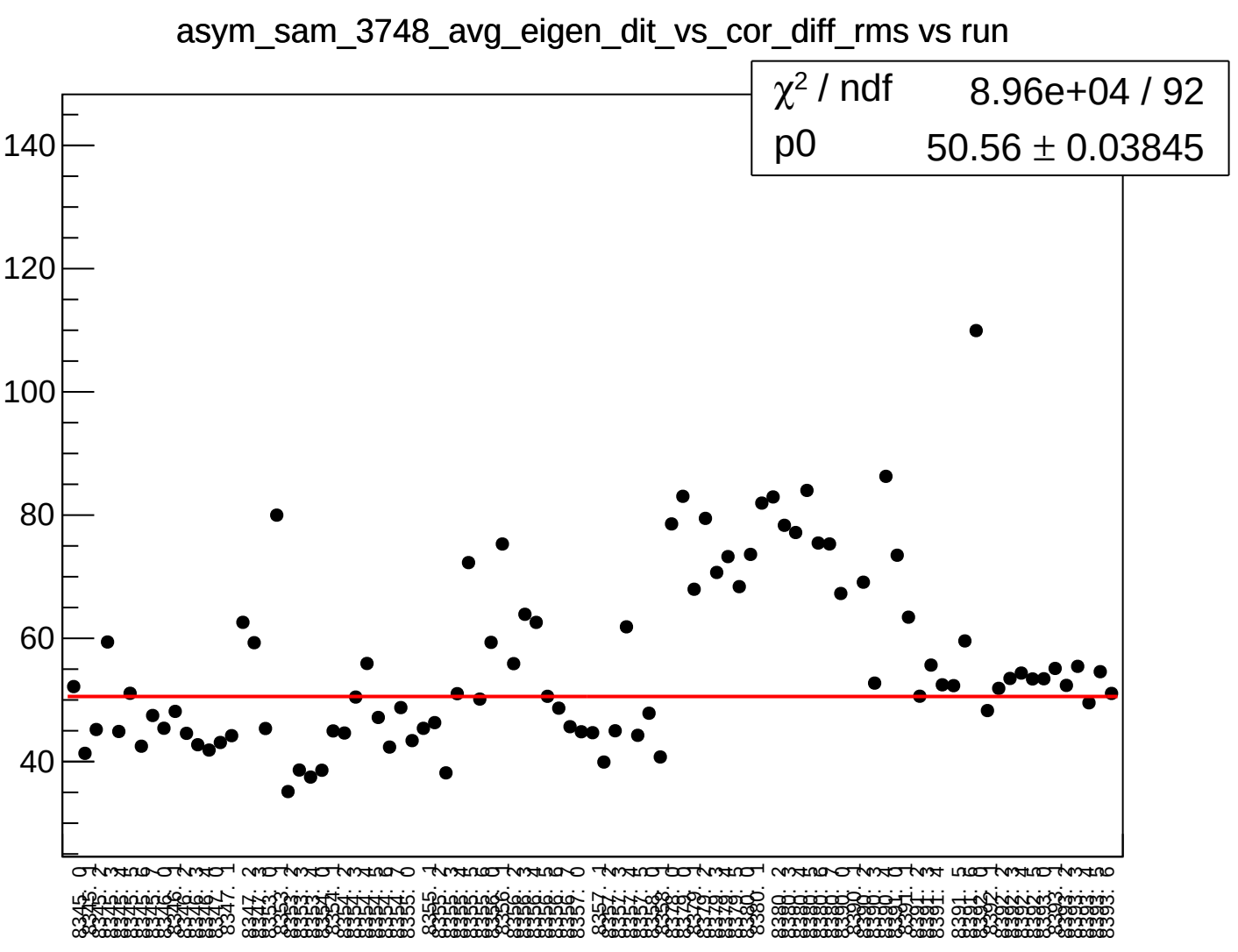

asym_sam_3748_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.5 / 92
p0 −0.122 ± 0.05437
pull
Entries 93
Mean 185.4
Std Dev 0
pull1D
Entries 93
Mean 0.01047
Std Dev 1.039

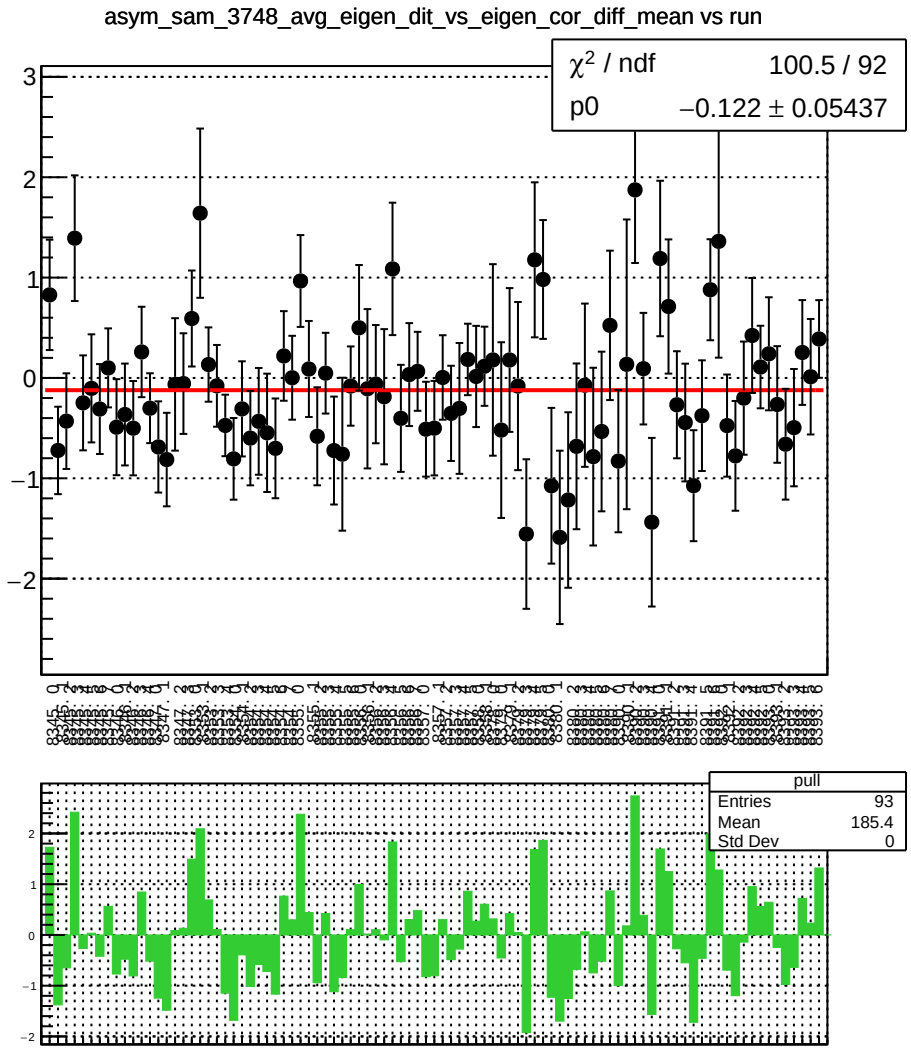

asym_sam_3748_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.96e+04 / 92
p0 50.56 ± 0.03845
140
120
100
80
60
40

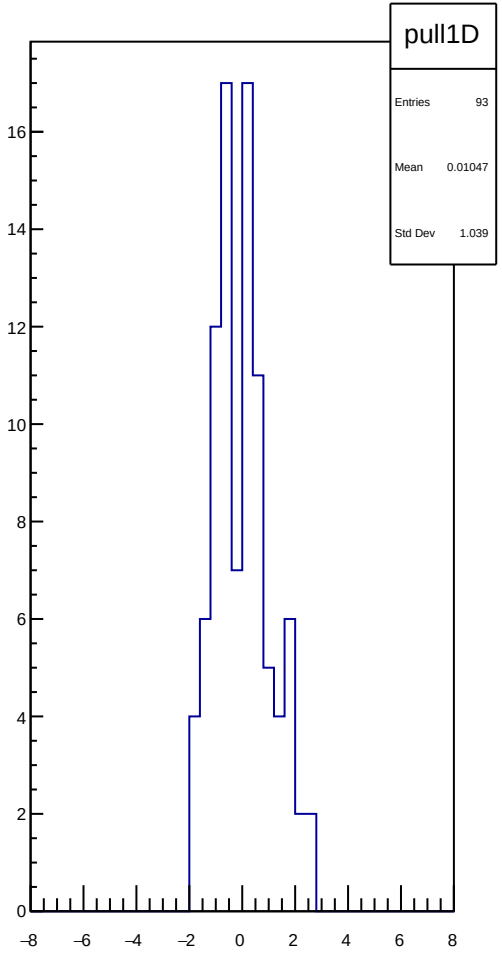

asym_sam_3748_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 118.3 / 92
p0 4.775e−06 ± 1.957e−06
0.12
0.1
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 93
Mean 235.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.04986
Std Dev 1.127
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

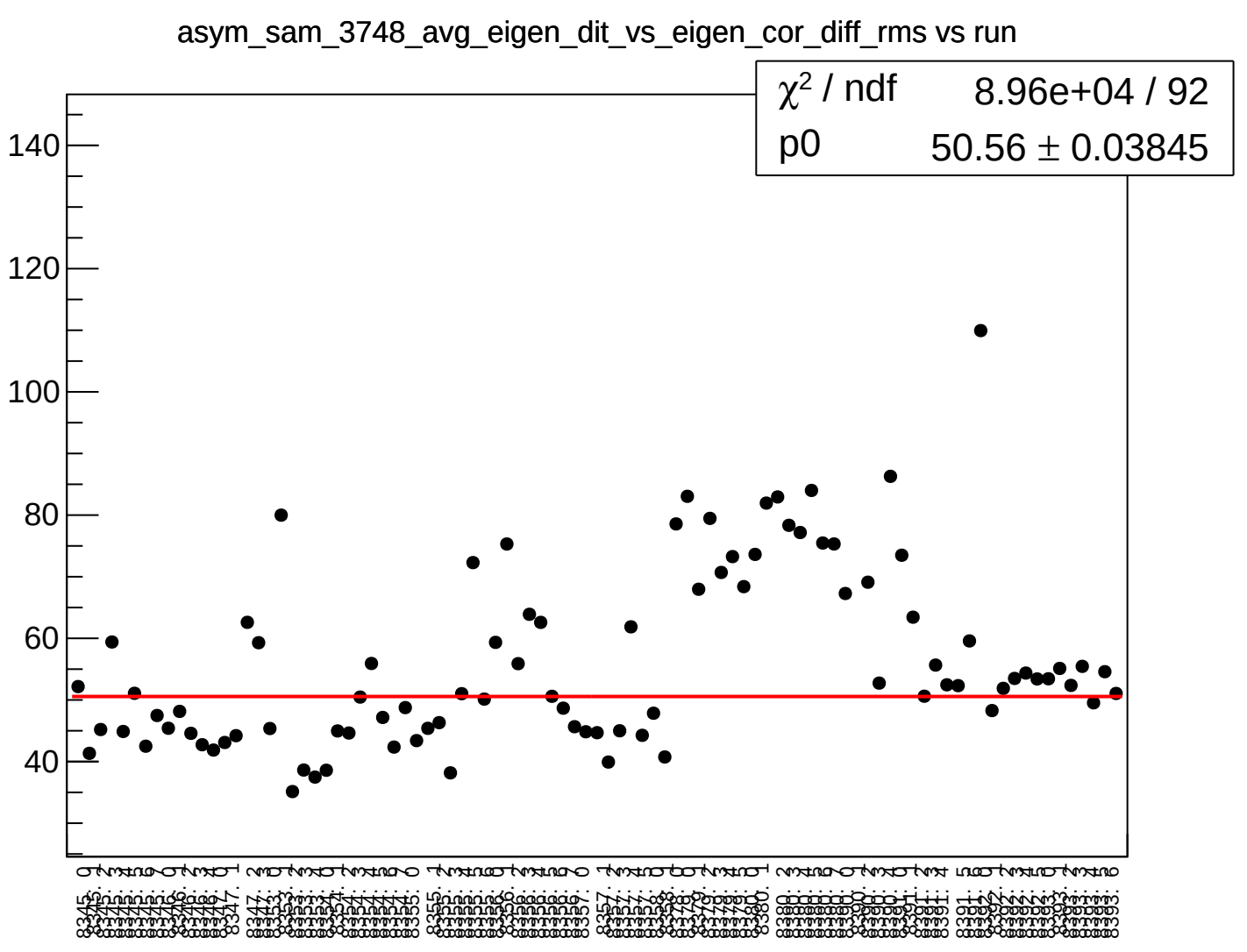

asym_sam_3748_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.042e+04 / 92
p0 0.00183 ± 1.384e−06
0.0035
0.003
0.0025
0.002
0.0015


asym_sam_3748_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 100.5 / 92
p0 −0.122 ± 0.05437
pull
Entries 93
Mean 185.4
Std Dev 0
pull1D
Entries 93
Mean 0.01047
Std Dev 1.039

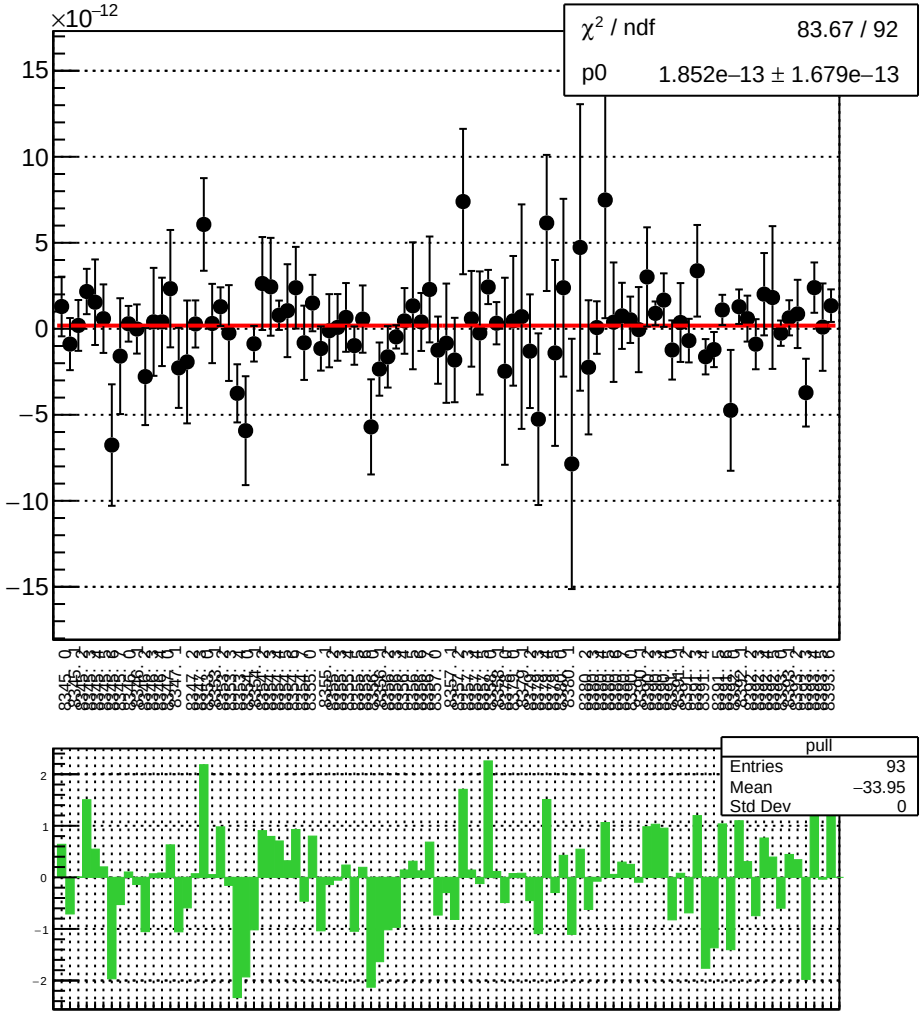

asym_sam_3748_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.96e+04 / 92
p0 50.56 ± 0.03845
140
120
100
80
60
40

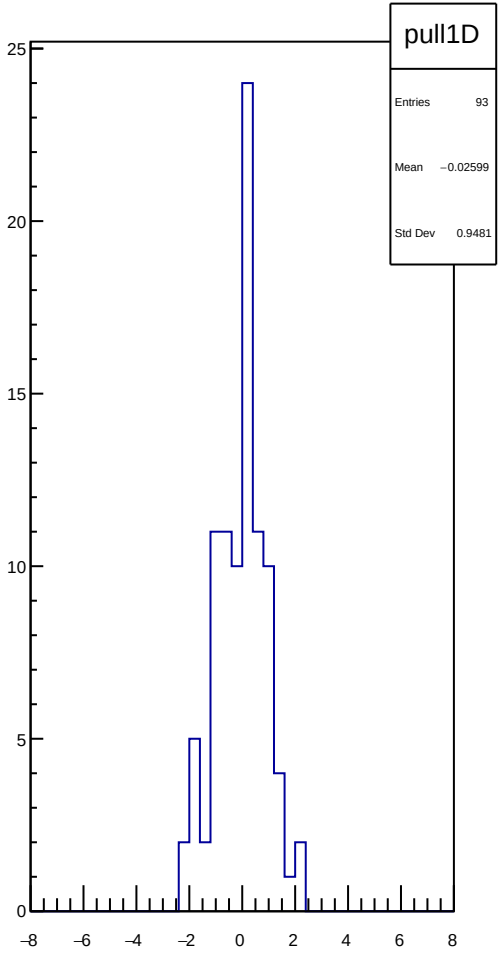

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.5 / 92
p0 −0.122 ± 0.05437
pull
Entries 93
Mean 185.4
Std Dev 0

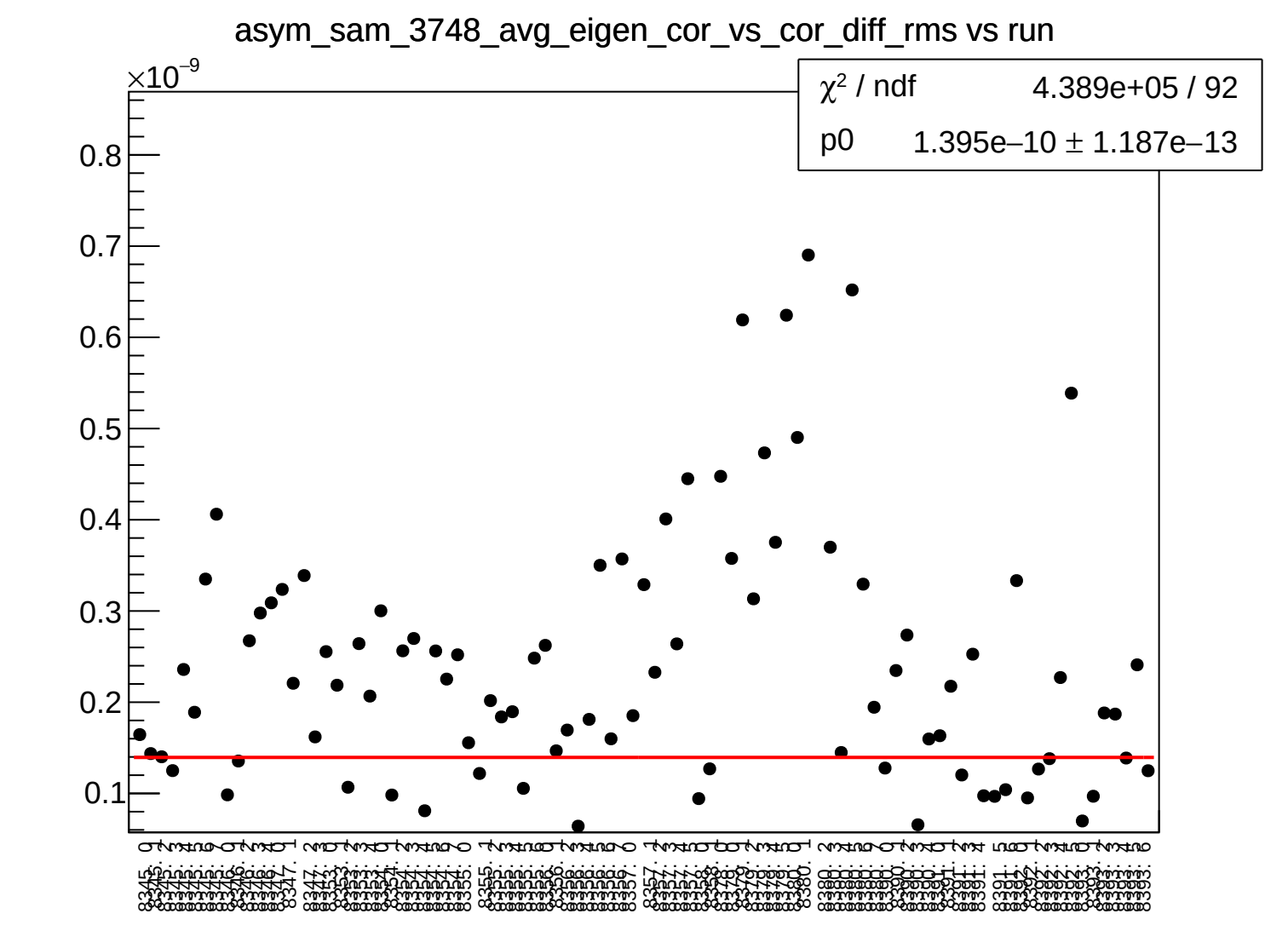

pull1D
Entries 93
Mean 0.01047
Std Dev 1.039

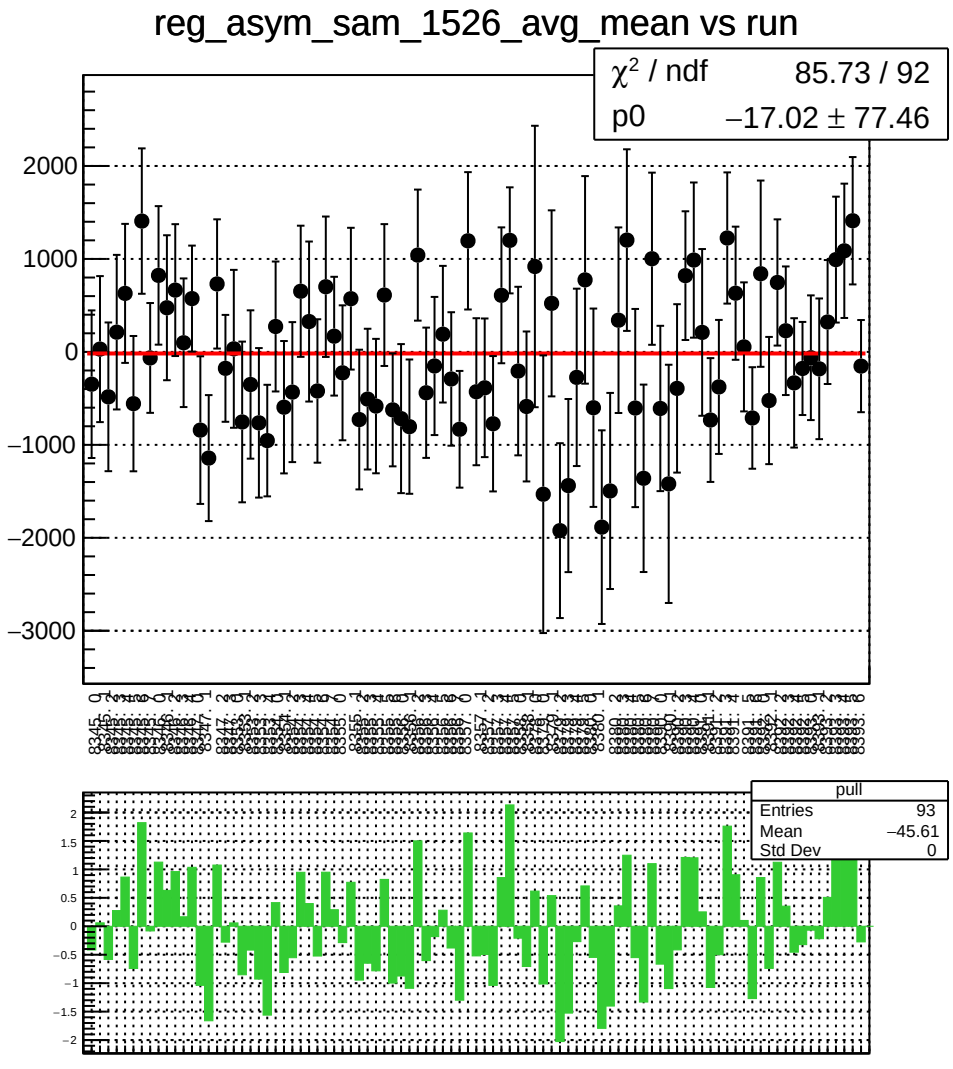

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.96e+04 / 92
p0 50.56 ± 0.03845
140
120
100
80
60
40

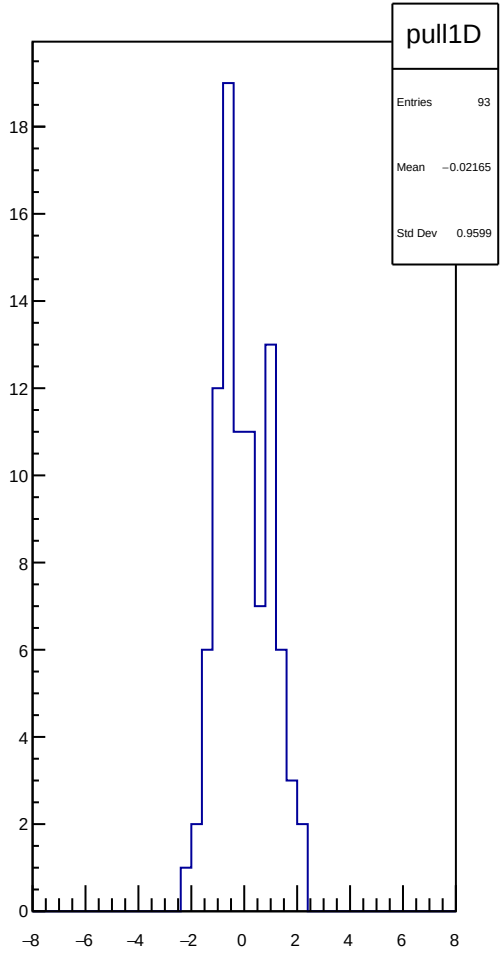
asym_sam_3748_avg_eigen_cor_vs_cor_diff_mean vs run

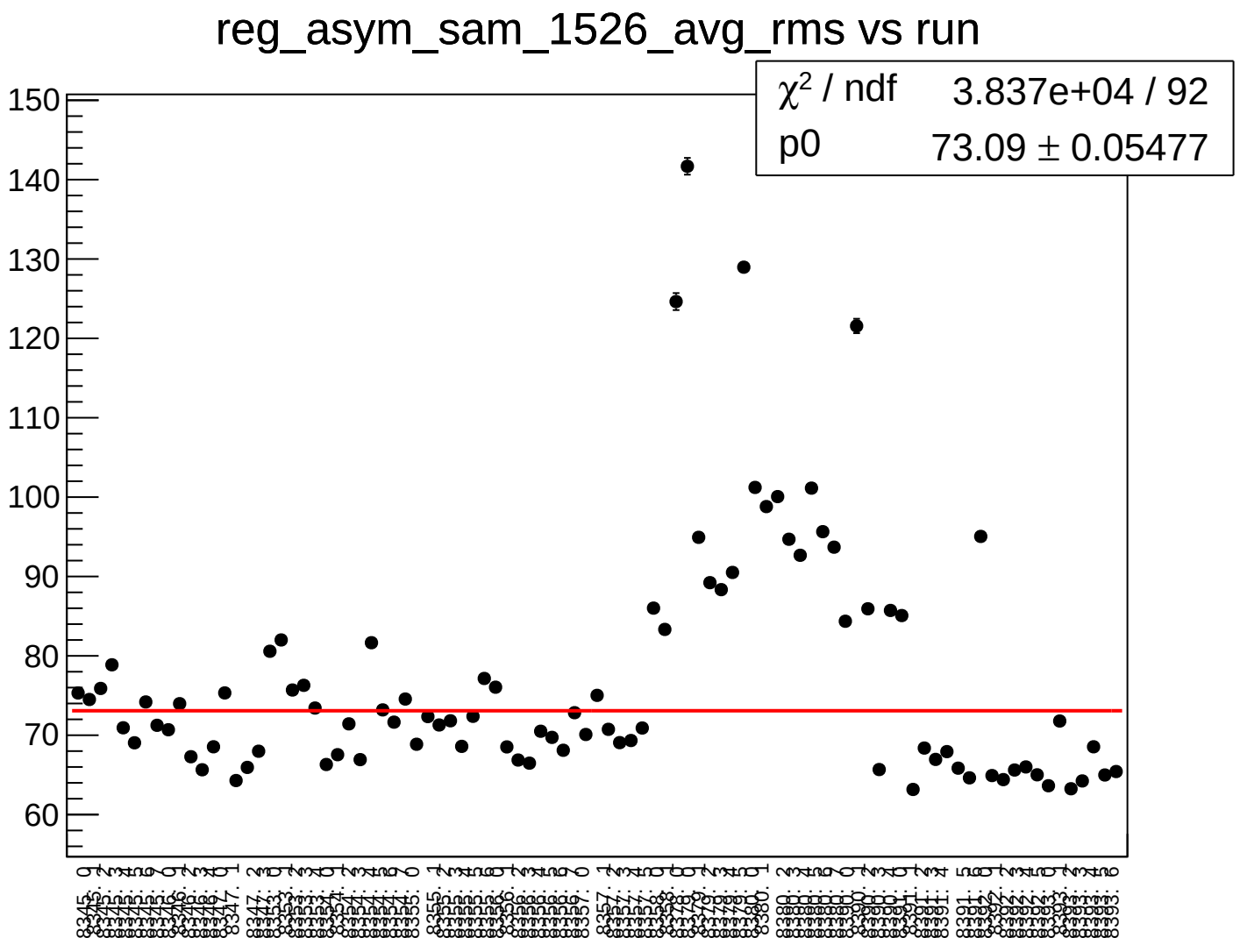


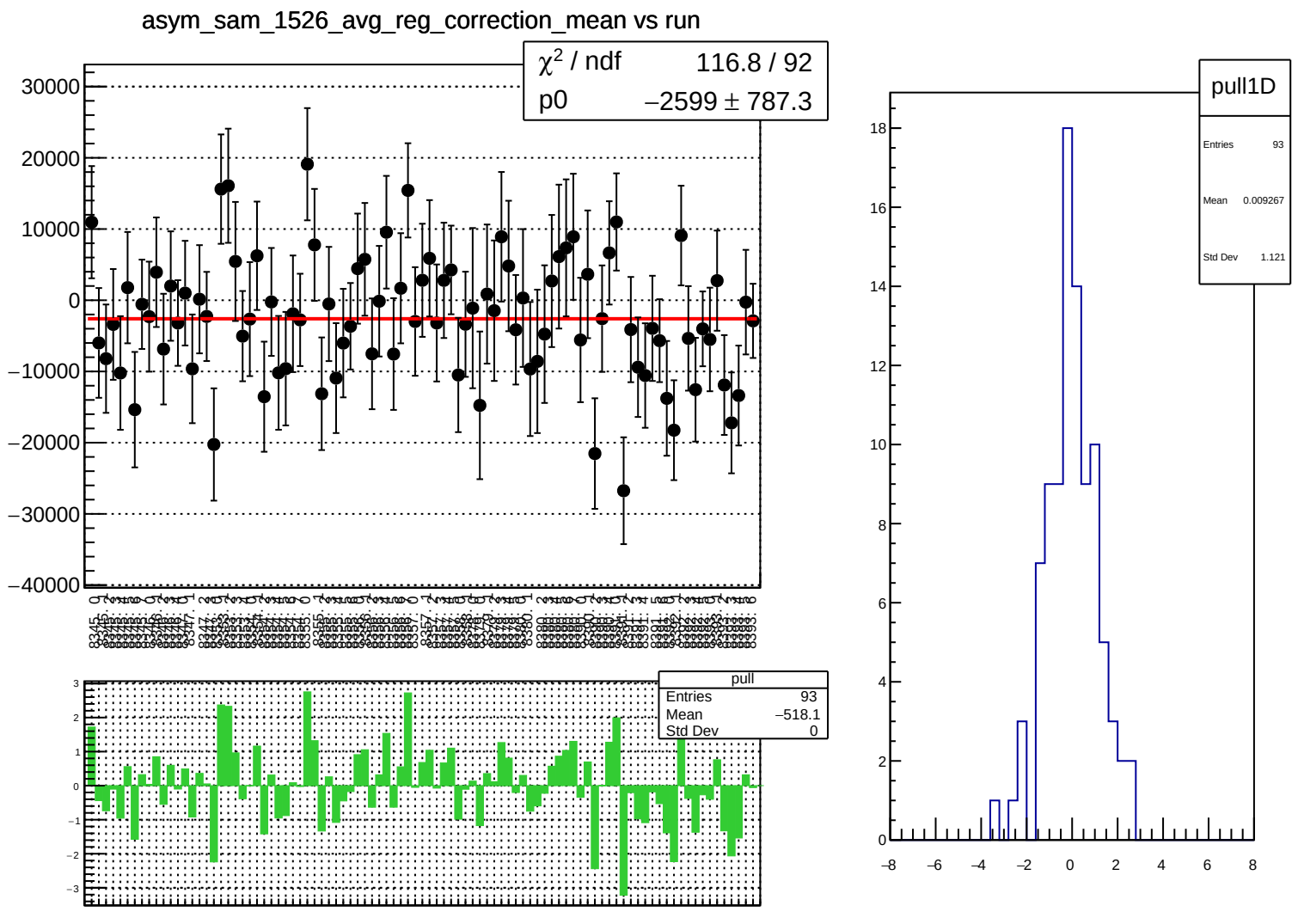


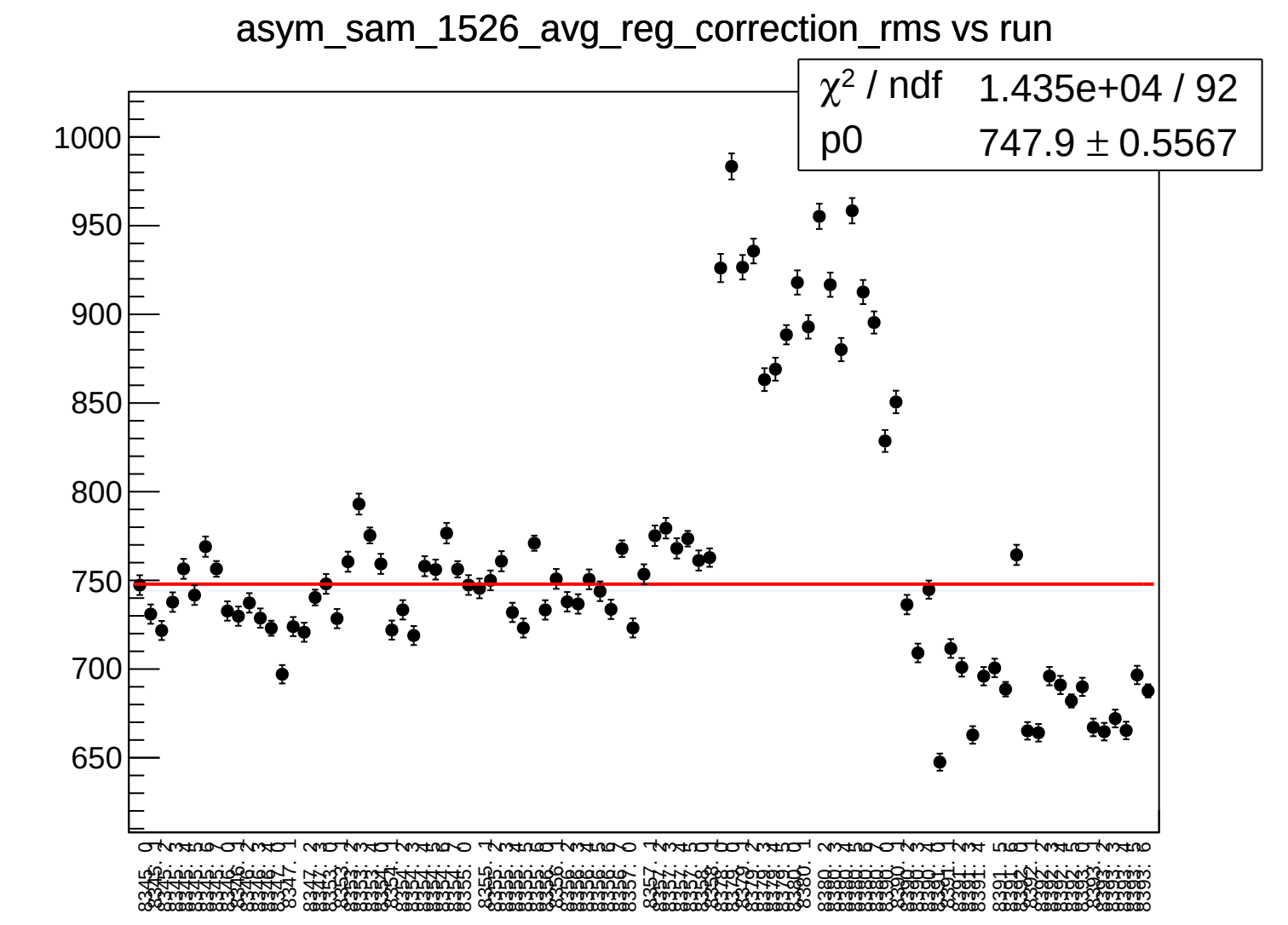

asym_sam_3748_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.389e+05 / 92
p0 1.395e−10 ± 1.187e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

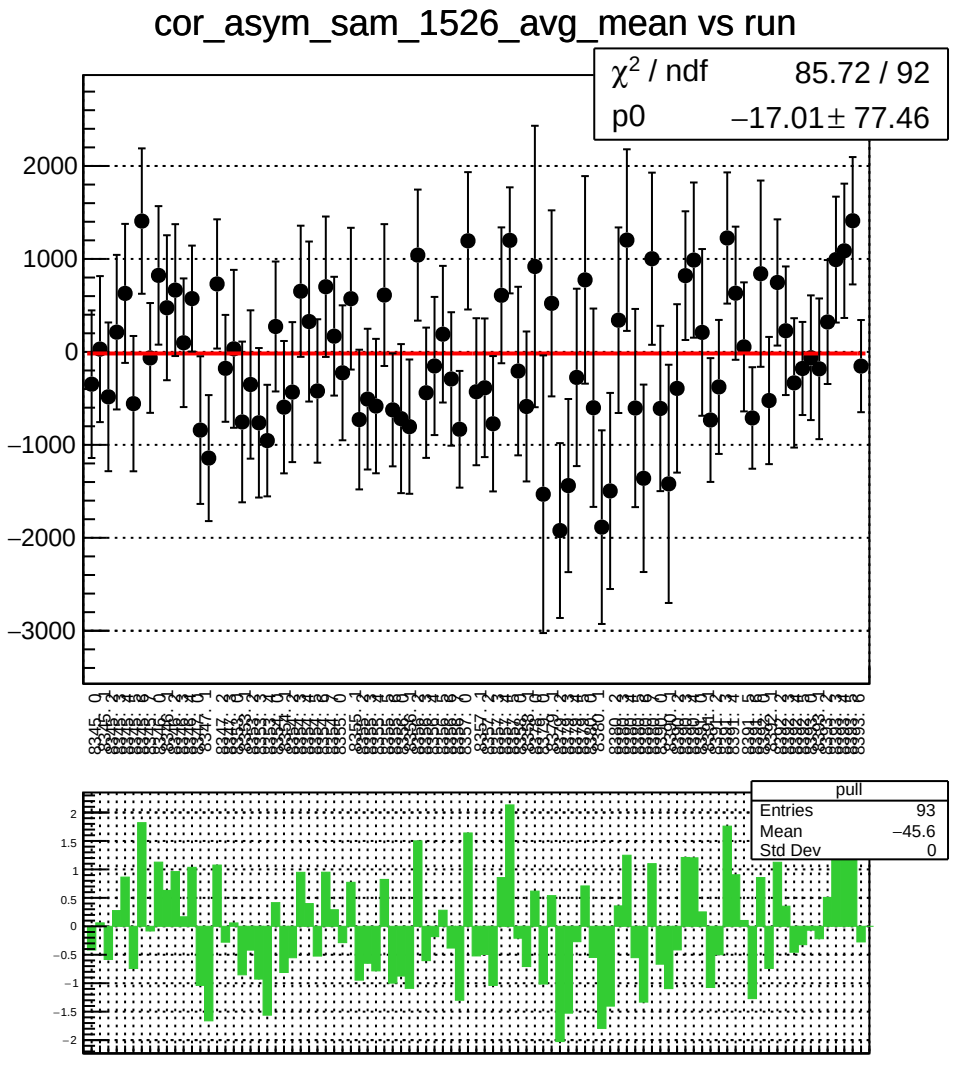

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 85.73 / 92
p0 −17.02 ± 77.46
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean −45.61
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

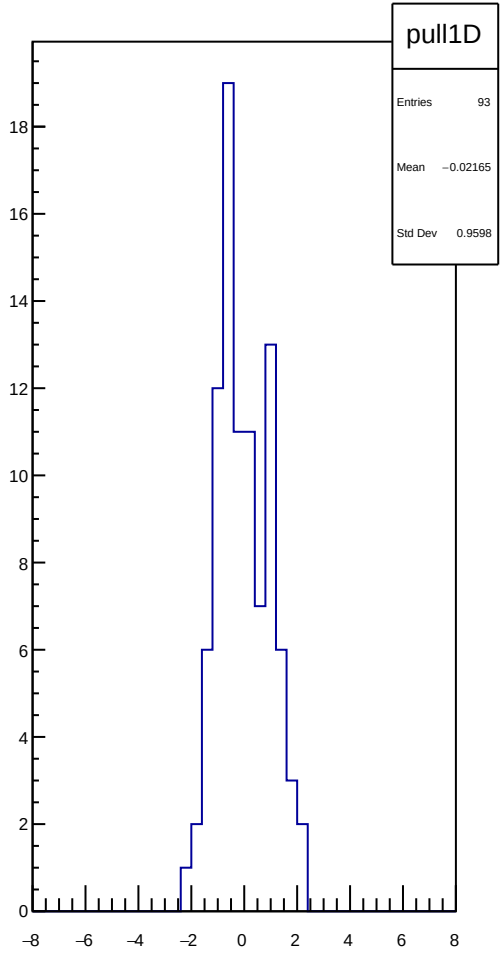

pull1D
Entries 93
Mean −0.02165
Std Dev 0.9599
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

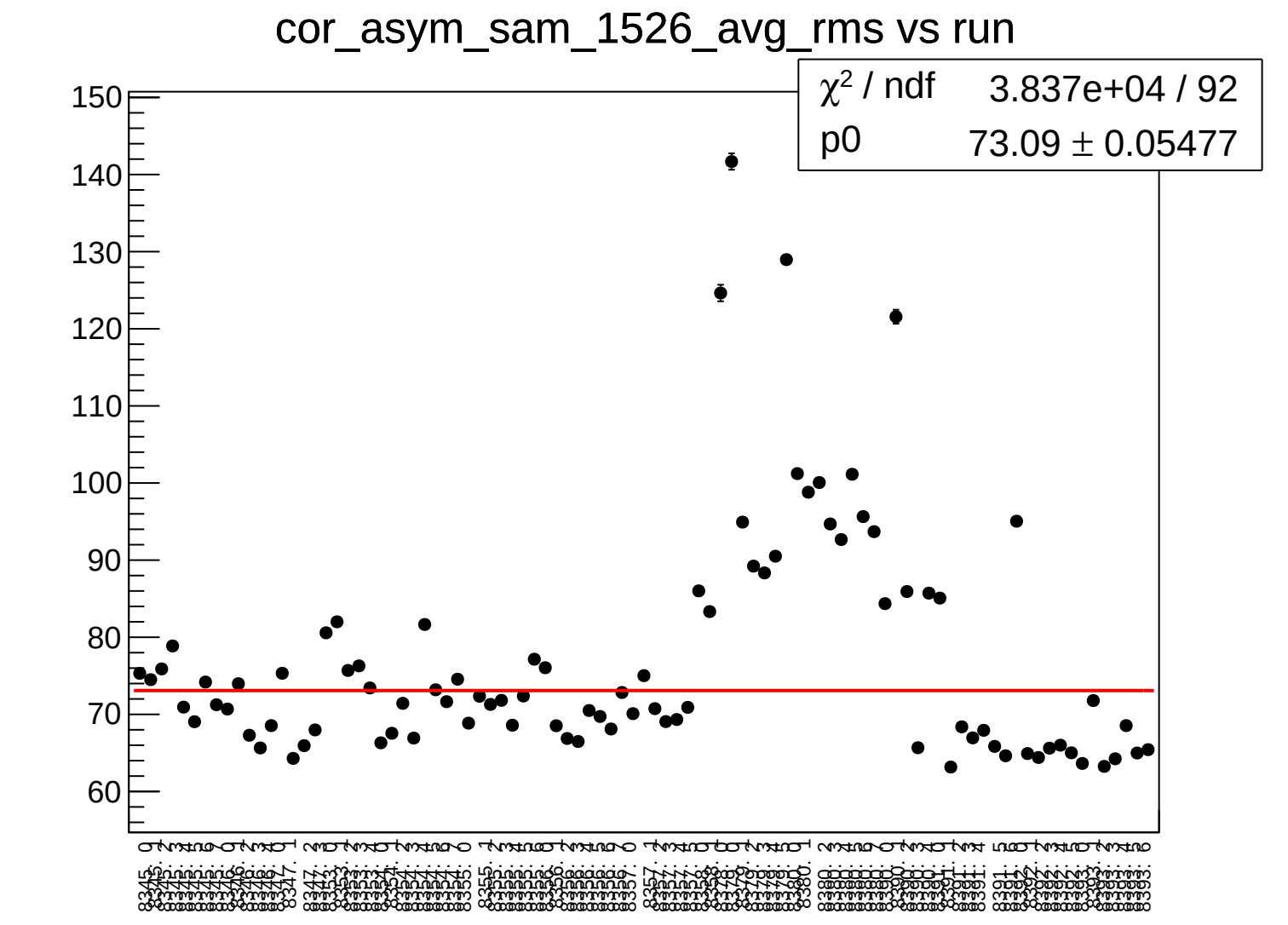

reg_asym_sam_1526_avg_rms vs run
χ^2 / ndf 3.837e+04 / 92
p0 73.09 ± 0.05477
150
140
130
120
110
100
90
80
70
60

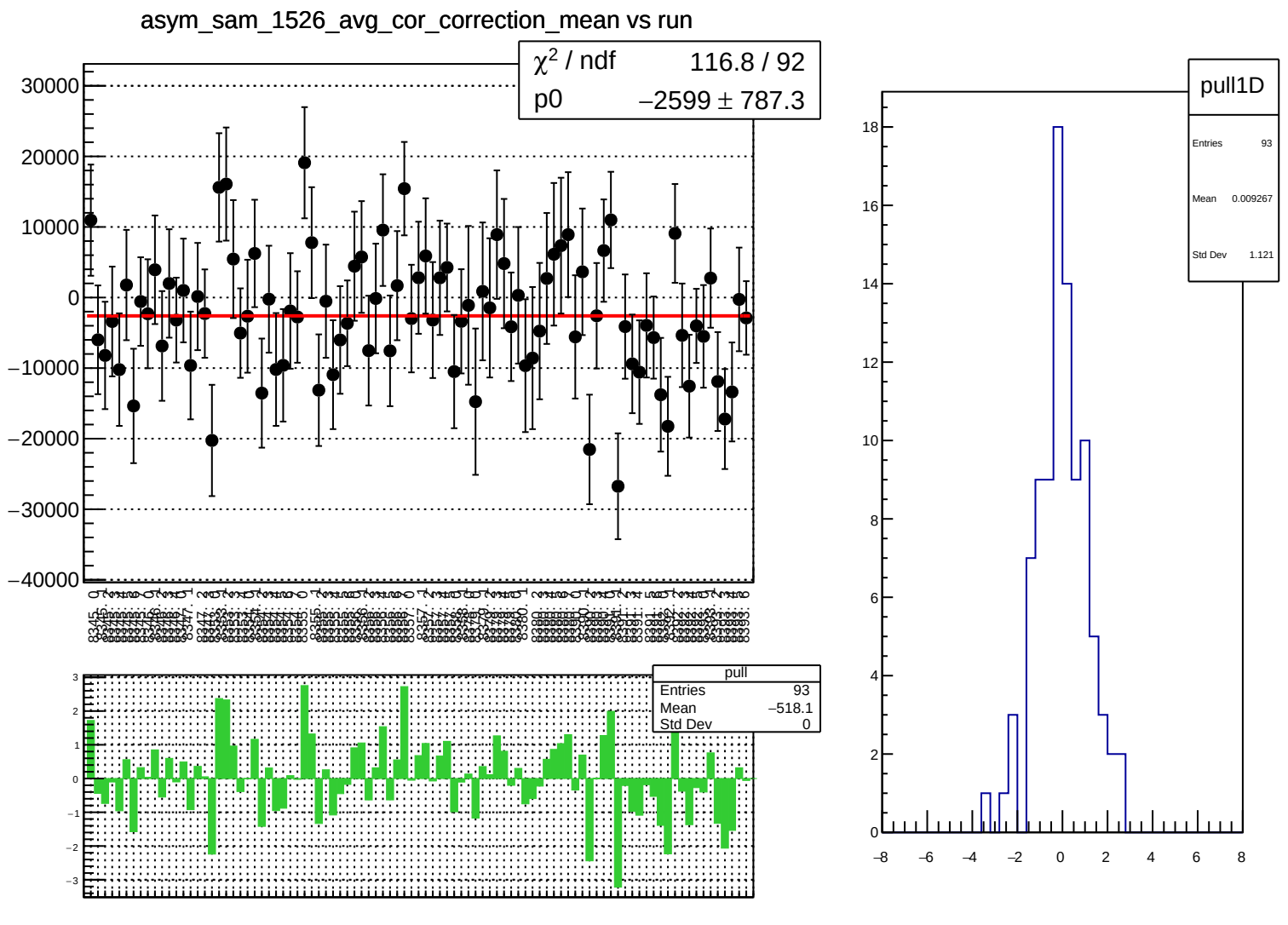

asym_sam_1526_avg_reg_correction_mean vs run
χ² / ndf 116.8 / 92
p0 −2599 ± 787.3
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean −518.1
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.009267
Std Dev 1.121
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

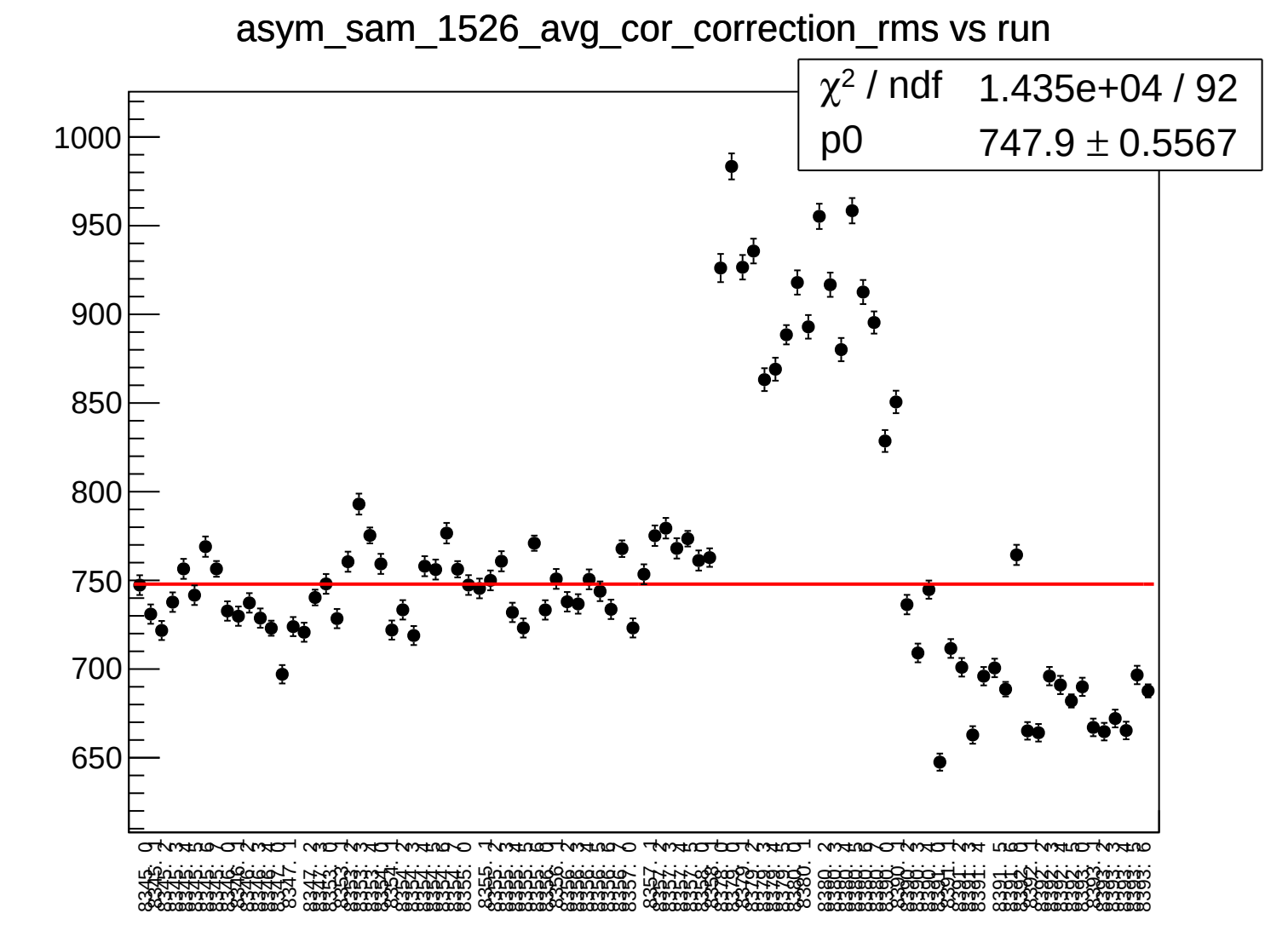

asym_sam_1526_avg_reg_correction_rms vs run
χ² / ndf 1.435e+04 / 92
p0 747.9 ± 0.5567
1000
950
900
850
800
750
700
650

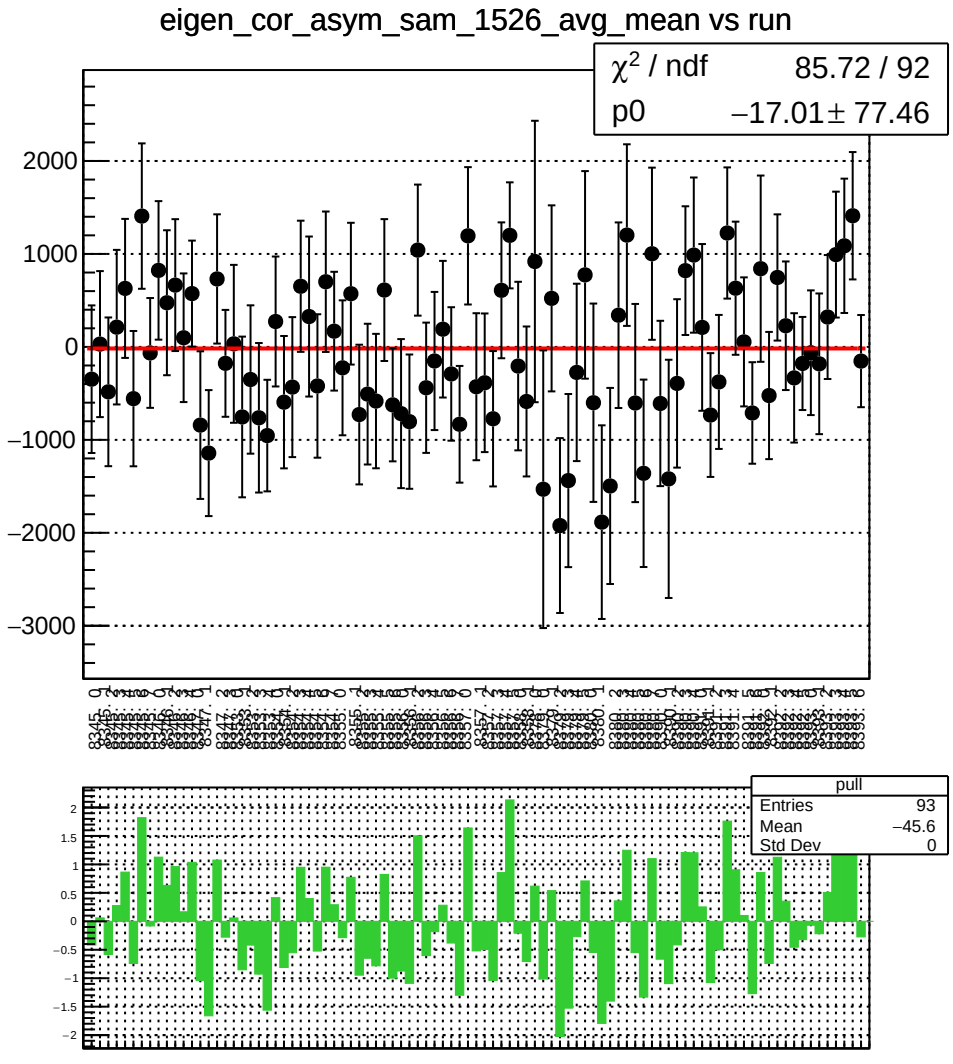

cor_asym_sam_1526_avg_mean vs run
χ² / ndf 85.72 / 92
p0 −17.01± 77.46
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean −45.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

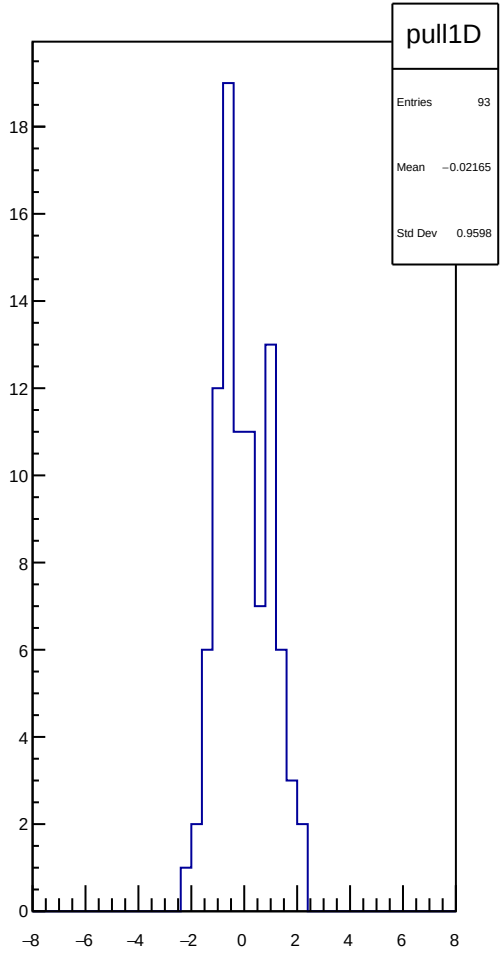

pull1D
Entries 93
Mean −0.02165
Std Dev 0.9598
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

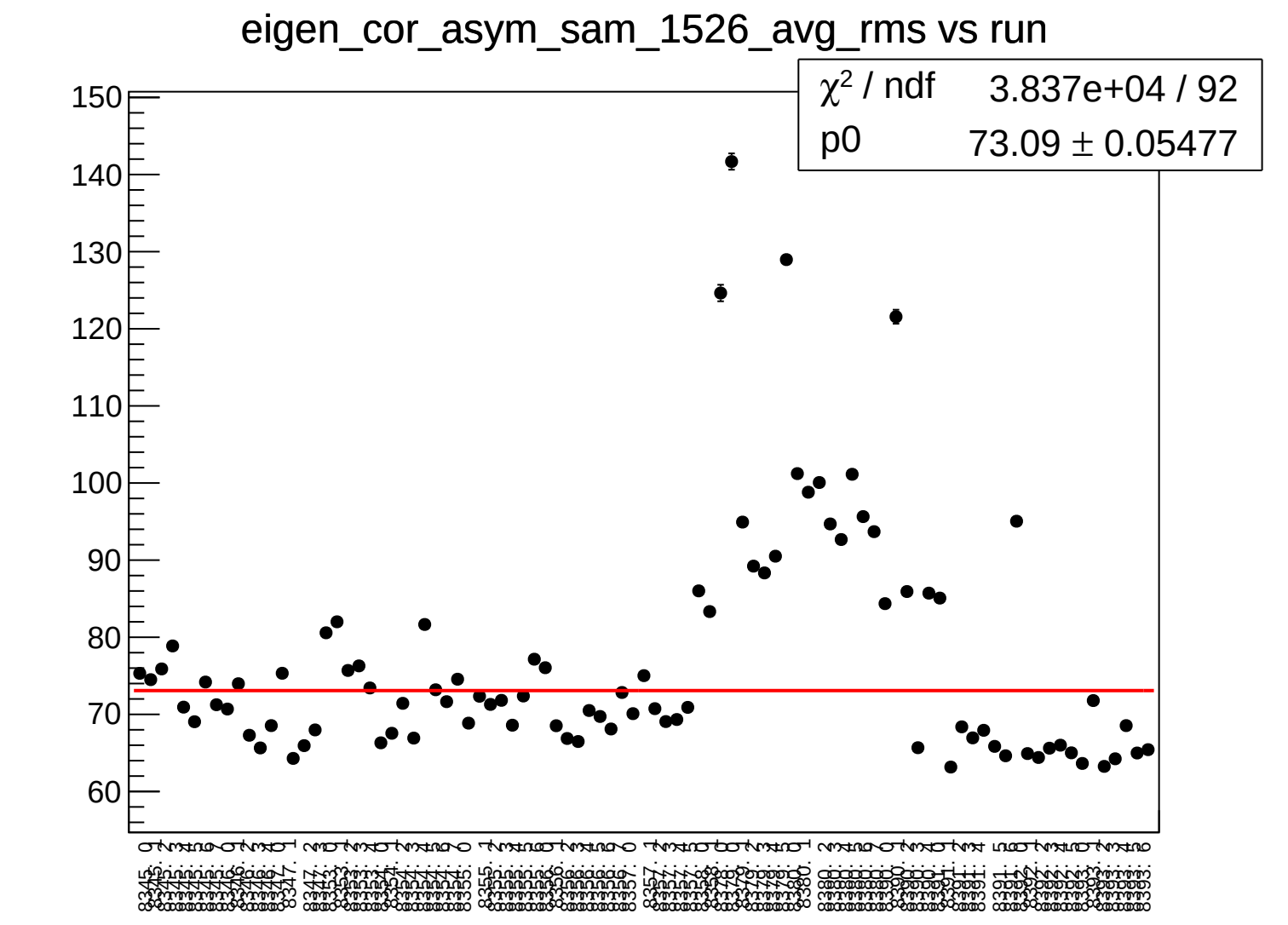

cor_asym_sam_1526_avg_rms vs run
χ² / ndf 3.837e+04 / 92
p0 73.09 ± 0.05477
150
140
130
120
110
100
90
80
70
60

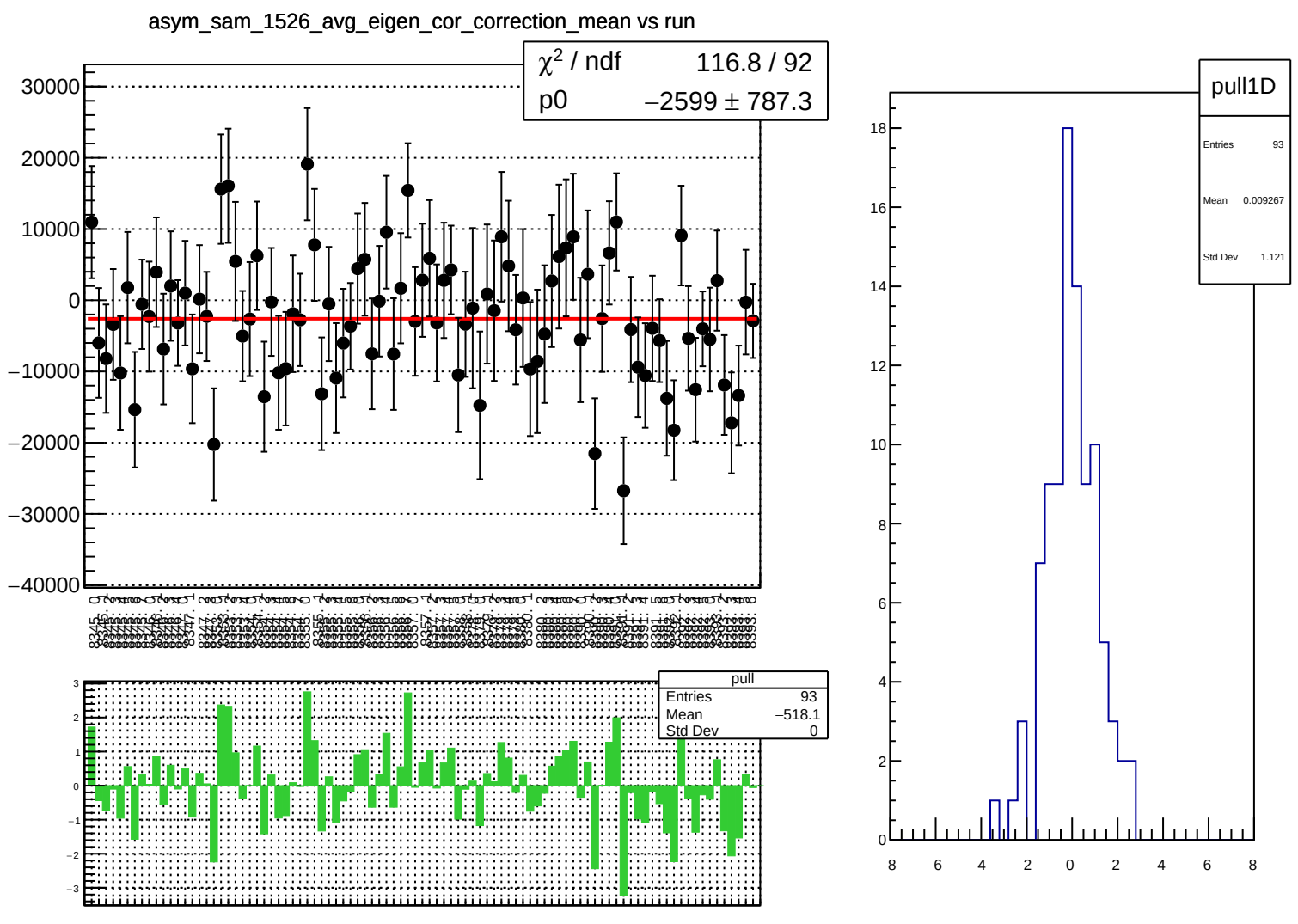

asym_sam_1526_avg_cor_correction_mean vs run
χ² / ndf 116.8 / 92
p0 −2599 ± 787.3
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean −518.1
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.009267
Std Dev 1.121
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

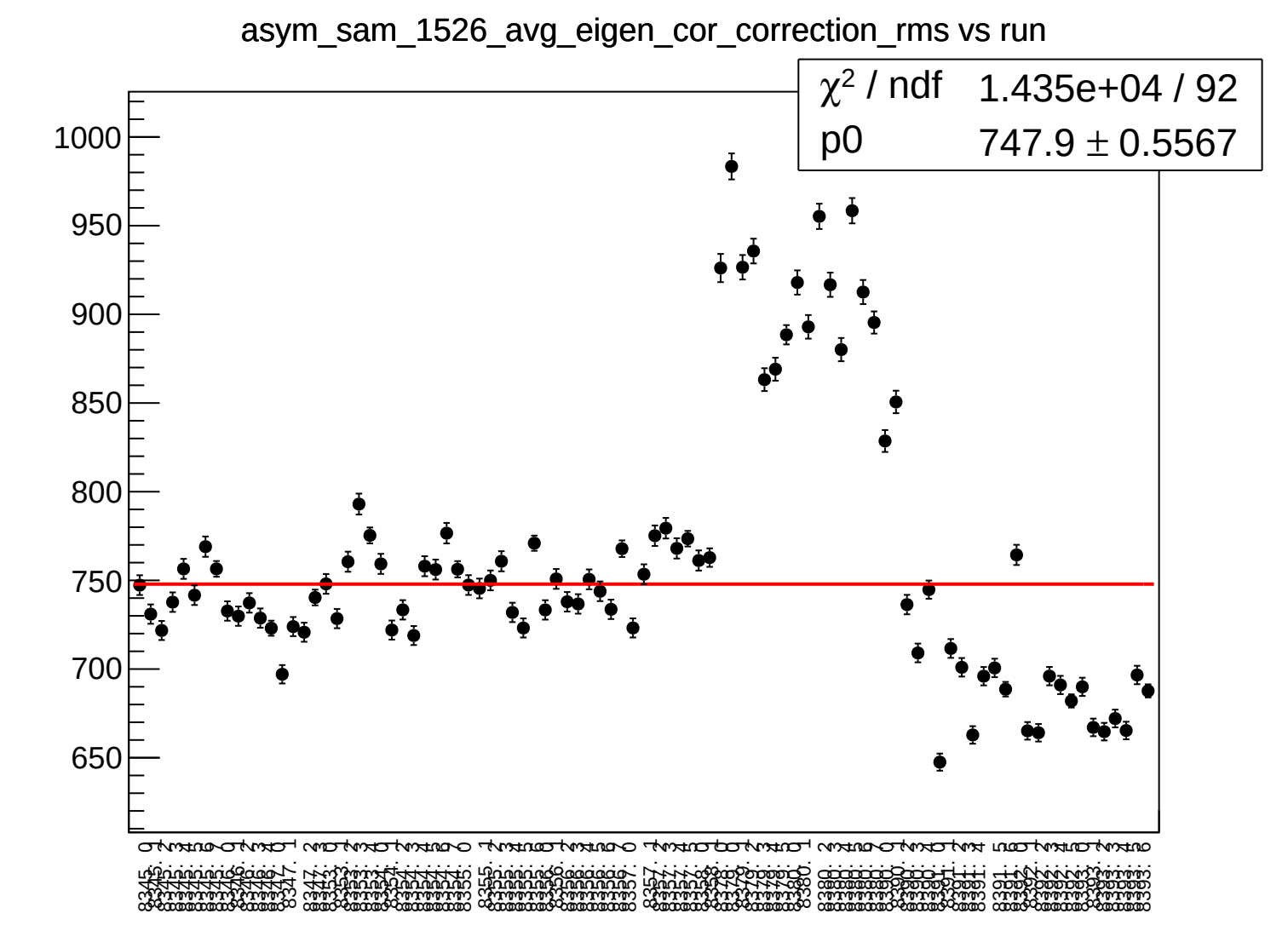

asym_sam_1526_avg_cor_correction_rms vs run
χ² / ndf 1.435e+04 / 92
p0 747.9 ± 0.5567
1000
950
900
850
800
750
700
650

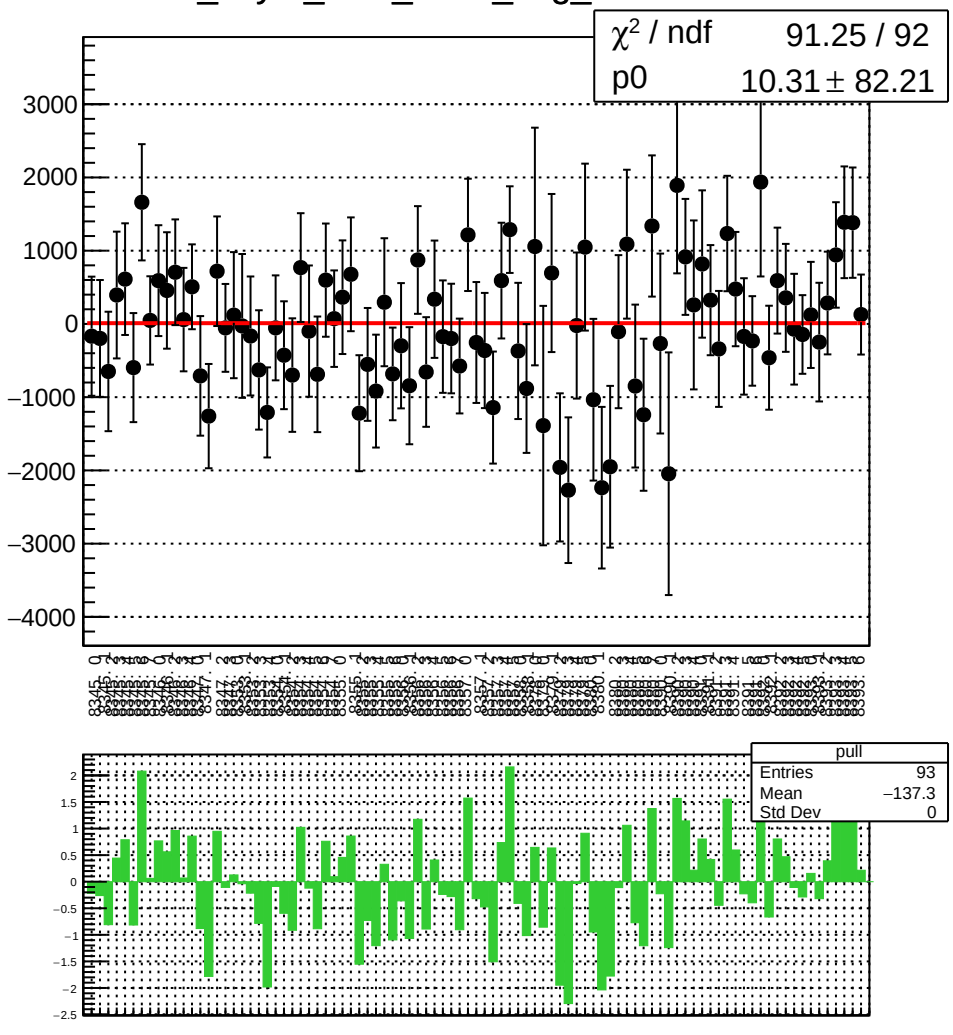

eigen_cor_asym_sam_1526_avg_mean vs run
χ² / ndf 85.72 / 92
p0 −17.01± 77.46
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean −45.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

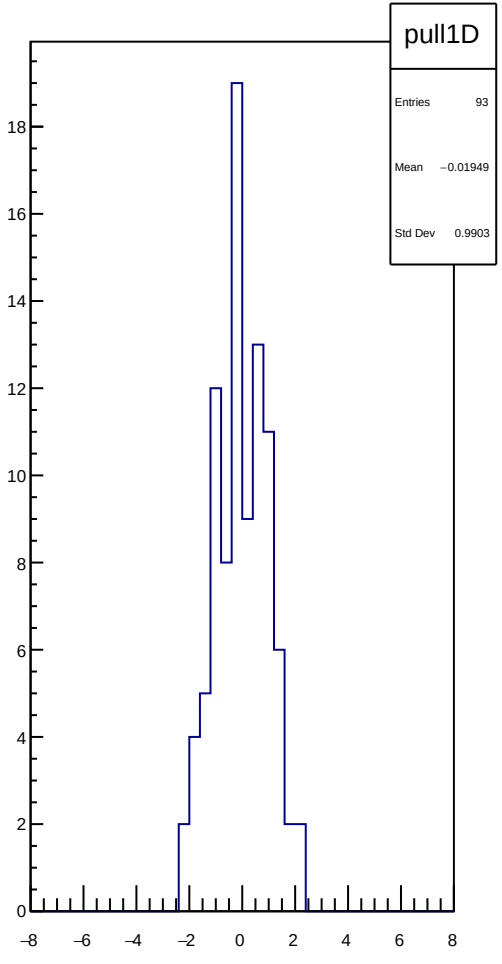

pull1D
Entries 93
Mean −0.02165
Std Dev 0.9598
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

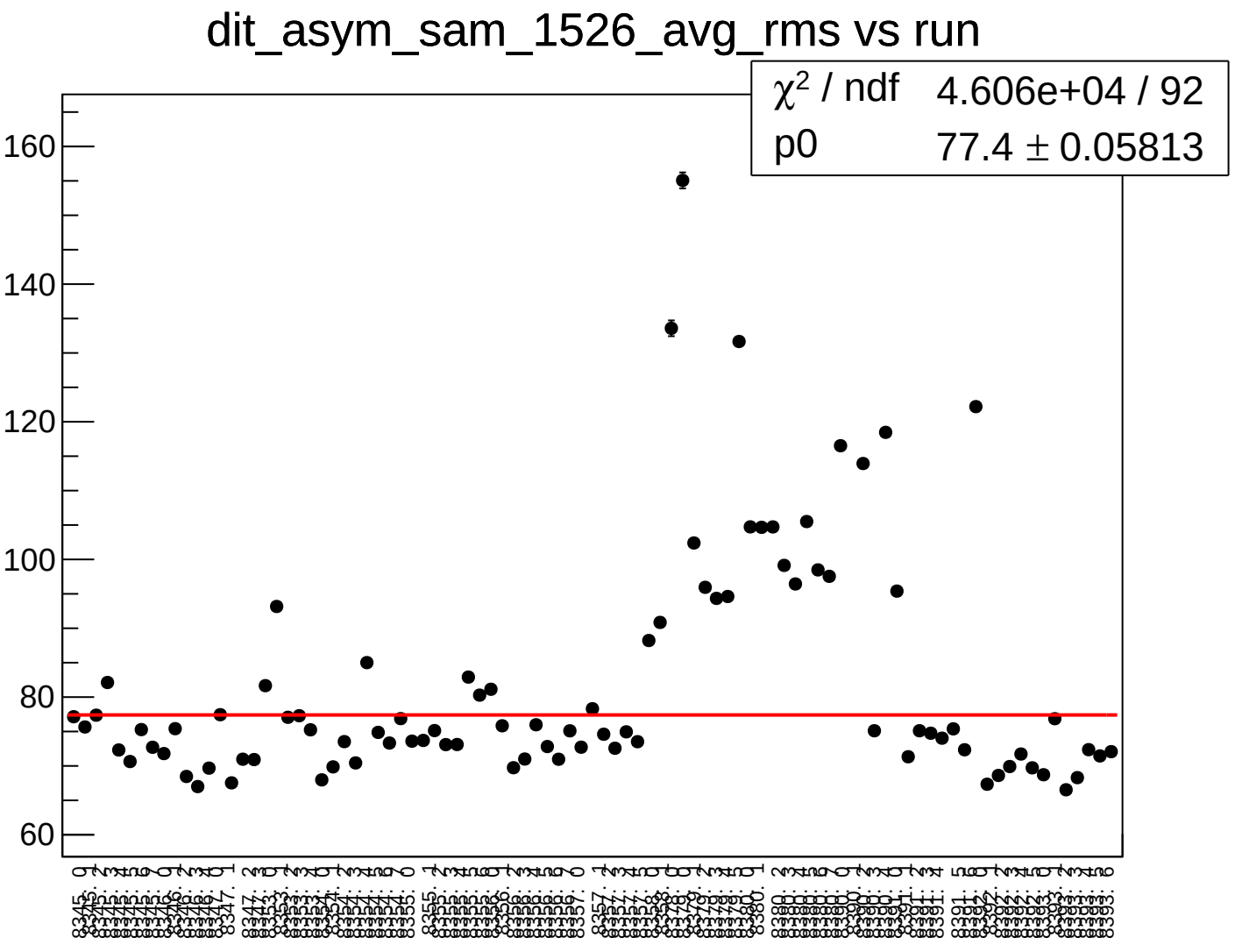

eigen_cor_asym_sam_1526_avg_rms vs run
χ^2 / ndf 3.837e+04 / 92
p0 73.09 ± 0.05477
150
140
130
120
110
100
90
80
70
60

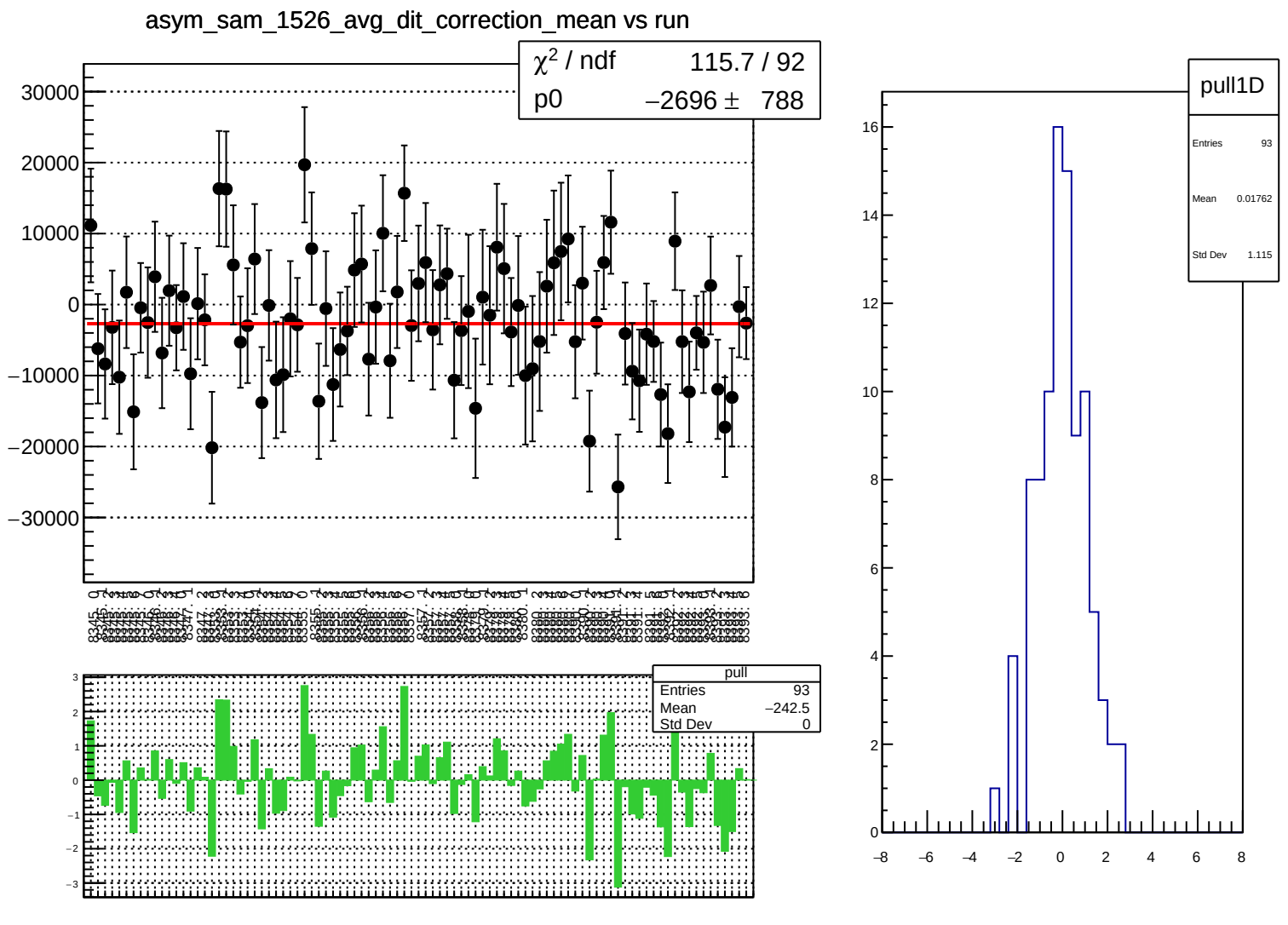

asym_sam_1526_avg_eigen_cor_correction_mean vs run
χ² / ndf 116.8 / 92
p0 −2599 ± 787.3
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean −518.1
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.009267
Std Dev 1.121
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

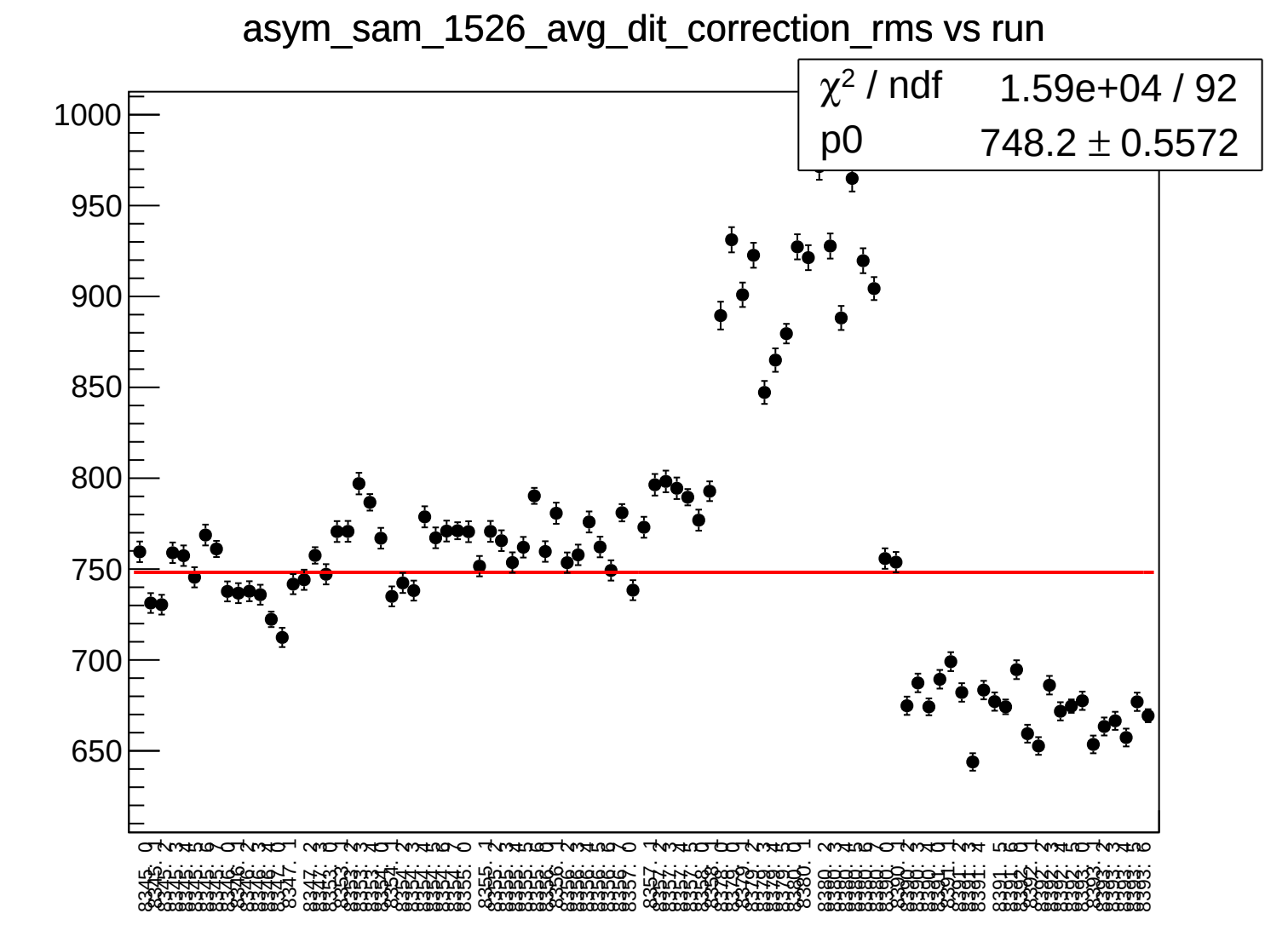

asym_sam_1526_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.435e+04 / 92
p0 747.9 ± 0.5567
1000
950
900
850
800
750
700
650

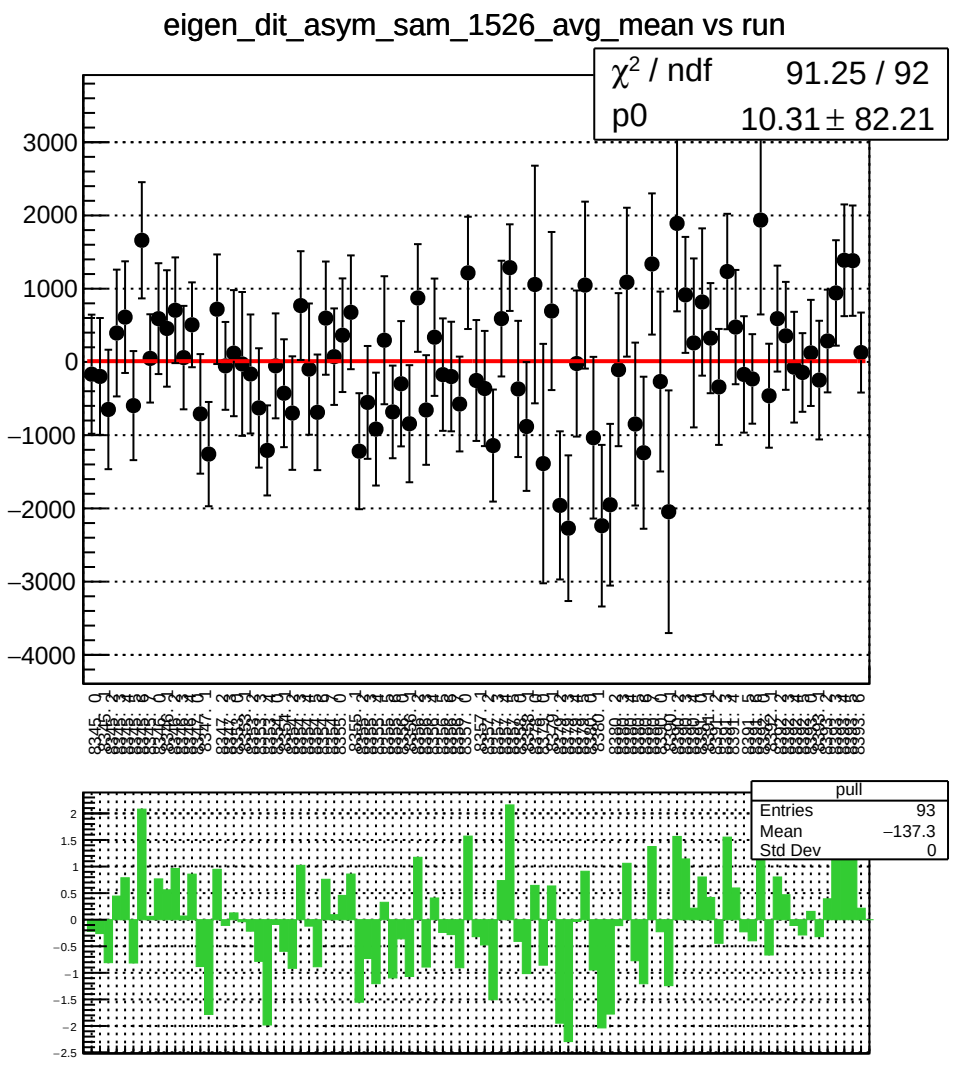

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 91.25 / 92
p0 10.31 ± 82.21
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 93
Mean −137.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

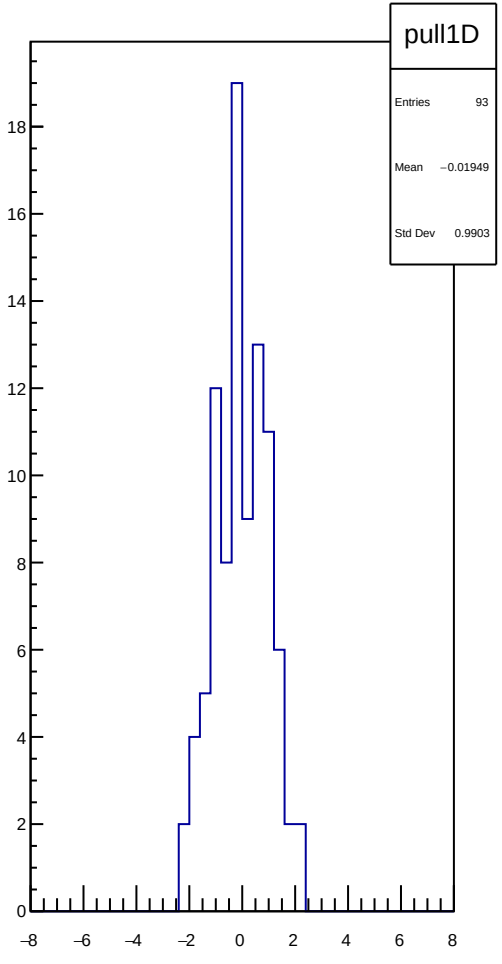

pull1D
Entries 93
Mean −0.01949
Std Dev 0.9903
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

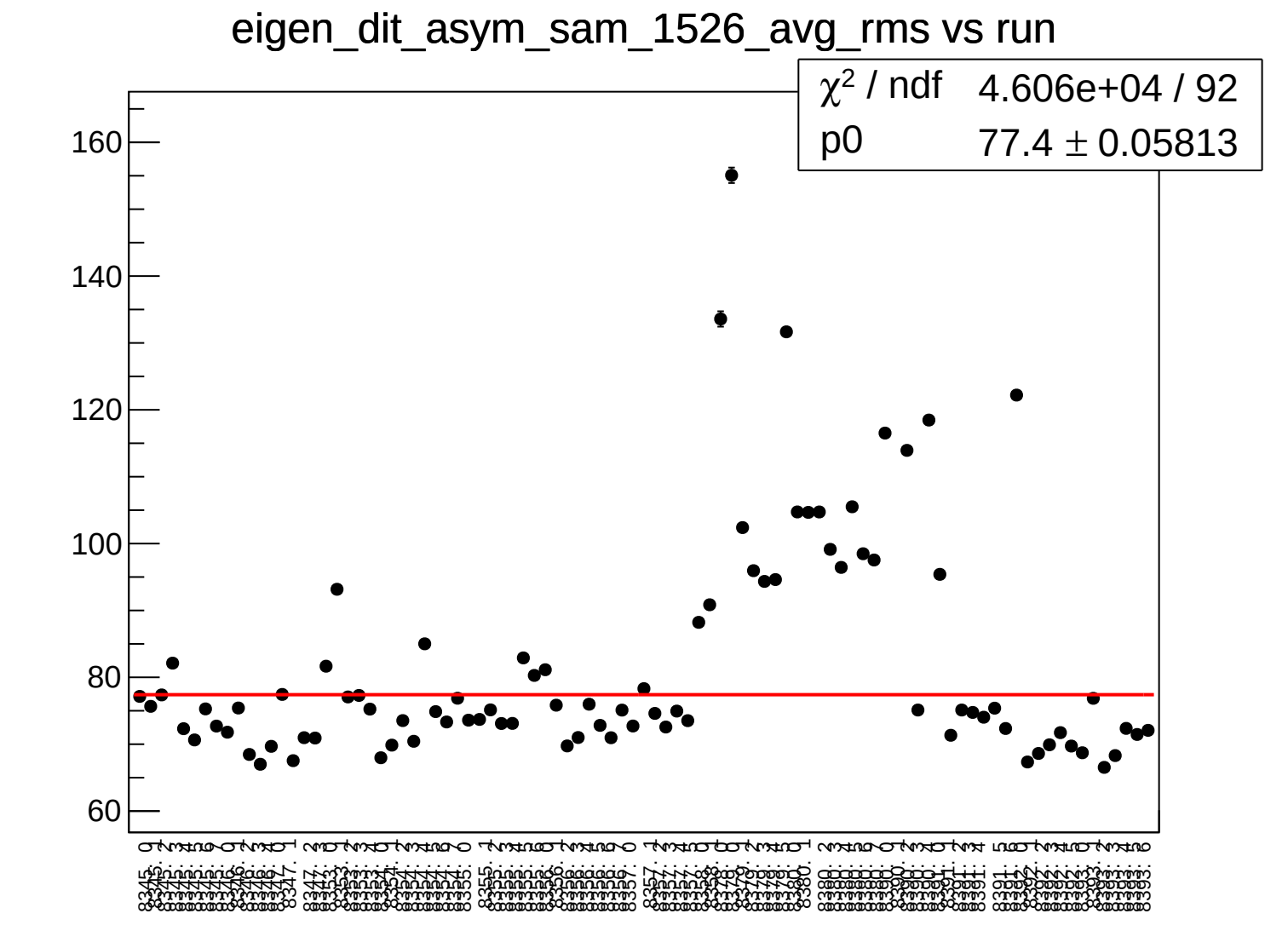

dit_asym_sam_1526_avg_rms vs run
χ² / ndf 4.606e+04 / 92
p0 77.4 ± 0.05813
160
140
120
100
80
60

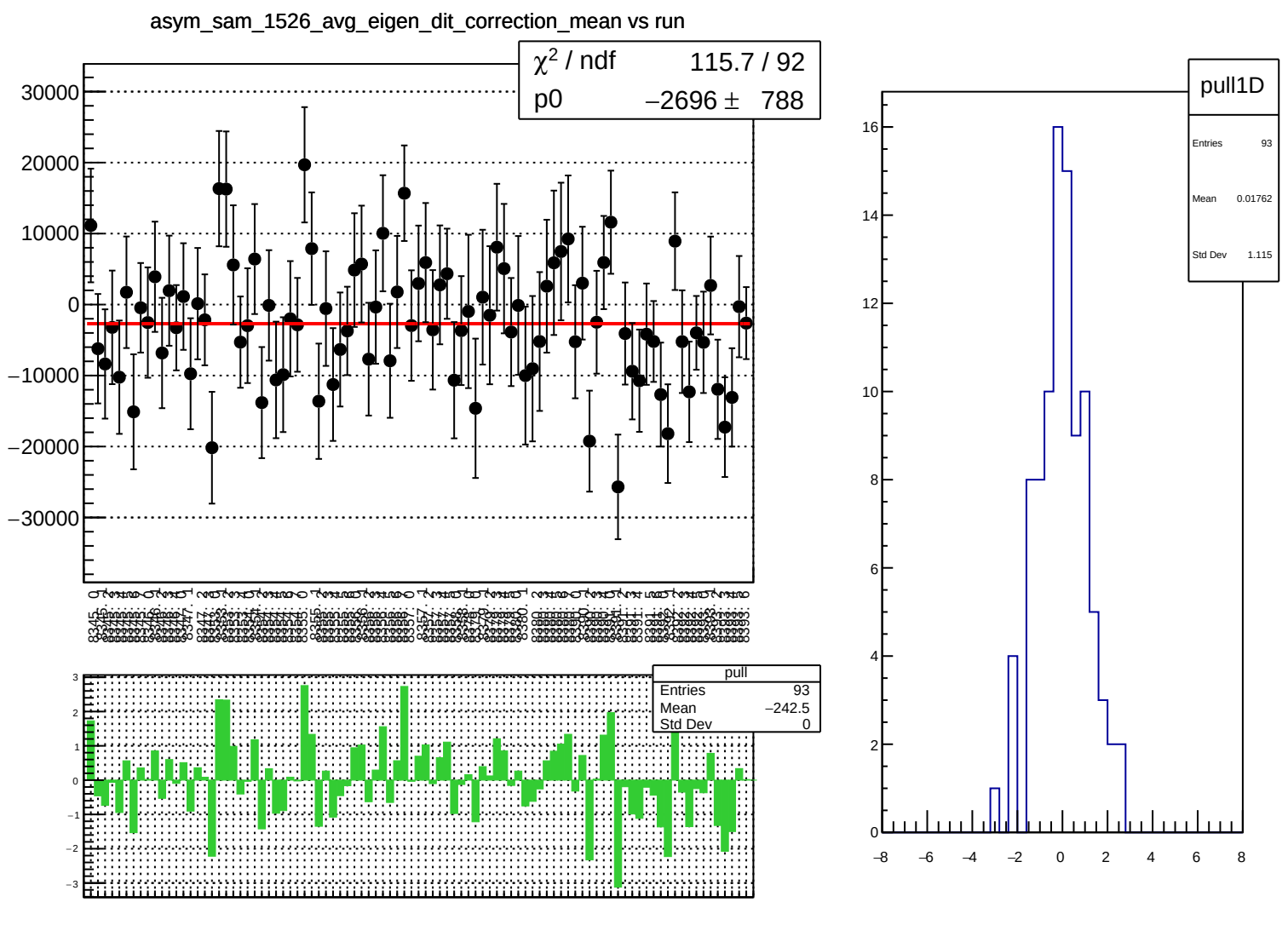

asym_sam_1526_avg_dit_correction_mean vs run
χ² / ndf 115.7 / 92
p0 −2696 ± 788
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −242.5
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.01762
Std Dev 1.115
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

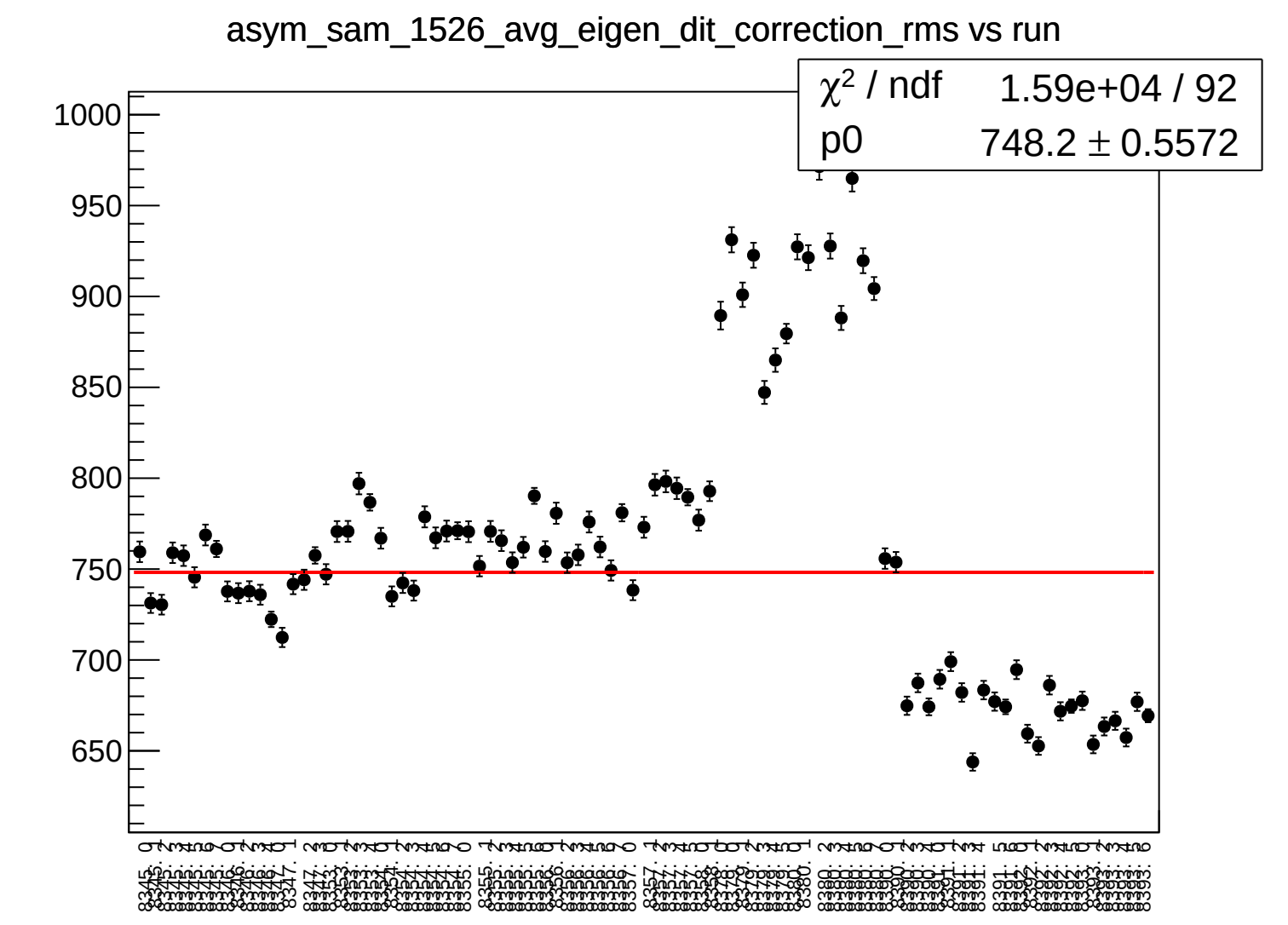

asym_sam_1526_avg_dit_correction_rms vs run
χ² / ndf 1.59e+04 / 92
p0 748.2 ± 0.5572
1000
950
900
850
800
750
700
650

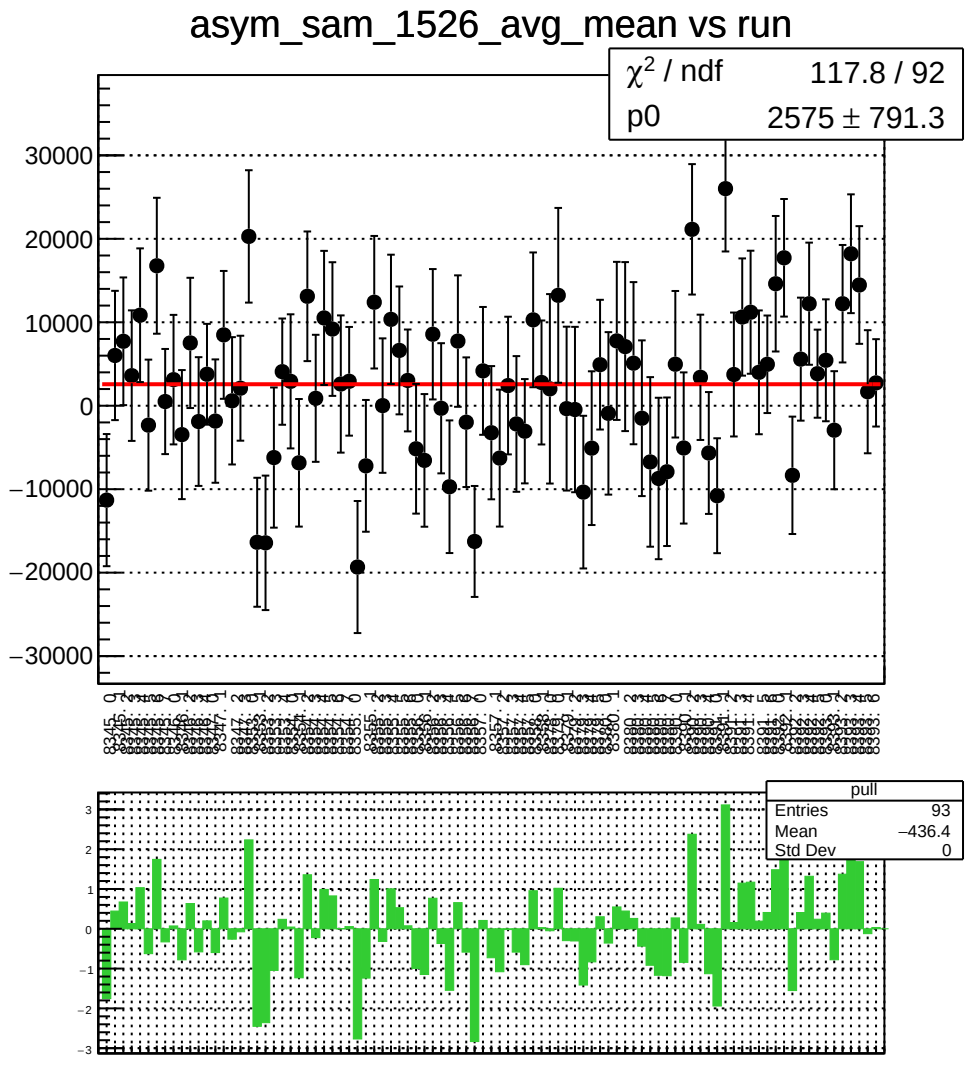

eigen_dit_asym_sam_1526_avg_mean vs run
χ² / ndf 91.25 / 92
p0 10.31 ± 82.21
pull
Entries 93
Mean −137.3
Std Dev 0

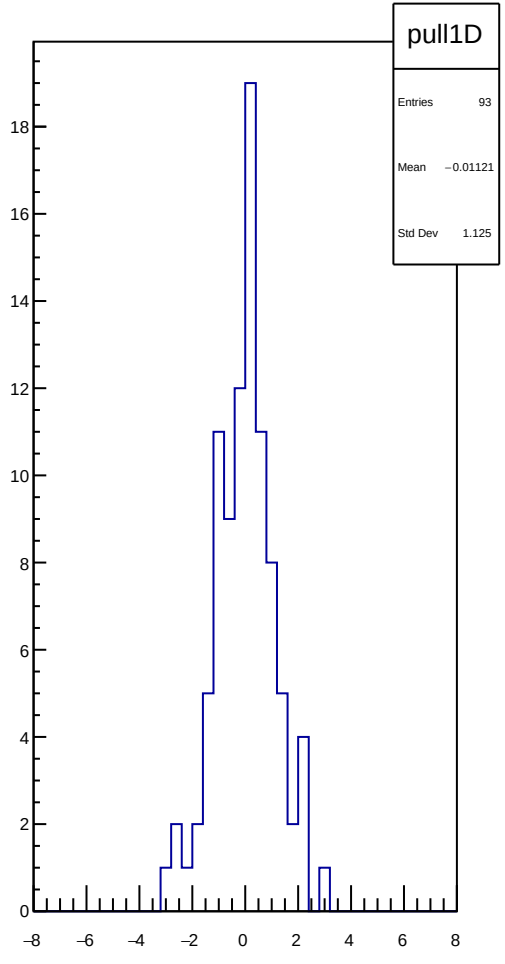

pull1D
Entries 93
Mean −0.01949
Std Dev 0.9903

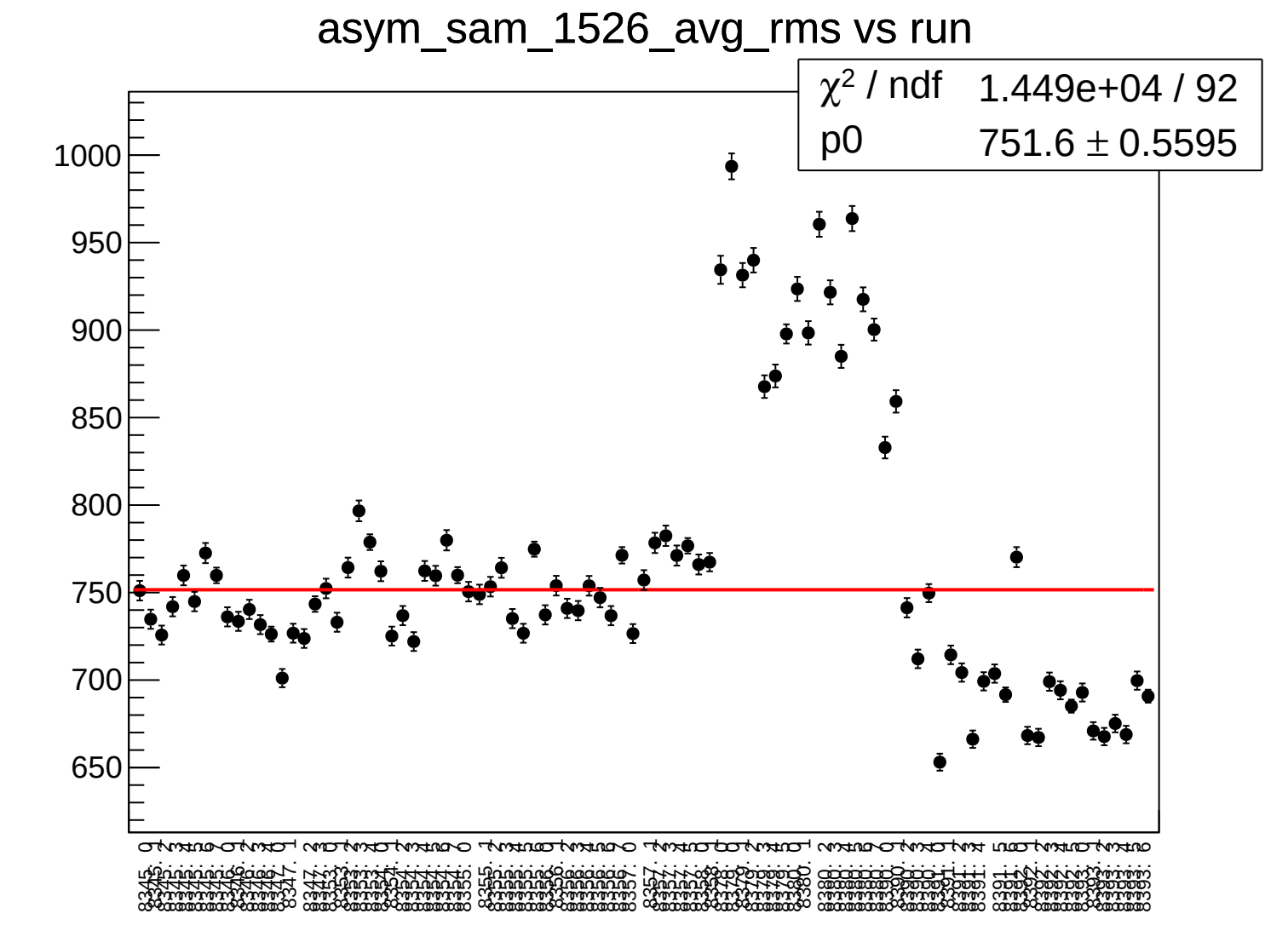

eigen_dit_asym_sam_1526_avg_rms vs run
χ² / ndf 4.606e+04 / 92
p0 77.4 ± 0.05813
160
140
120
100
80
60

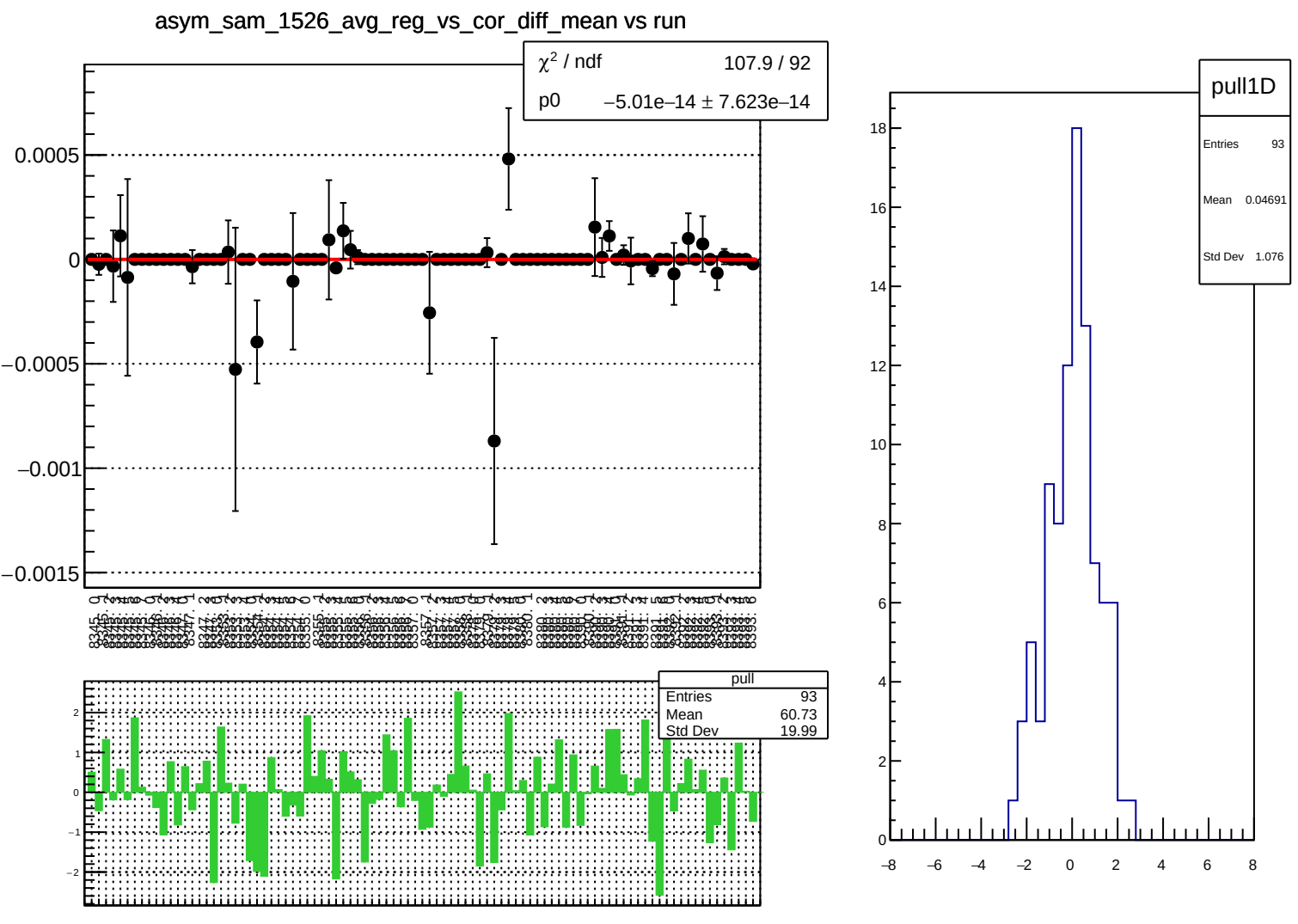

asym_sam_1526_avg_eigen_dit_correction_mean vs run
χ² / ndf 115.7 / 92
p0 −2696 ± 788
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −242.5
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.01762
Std Dev 1.115
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

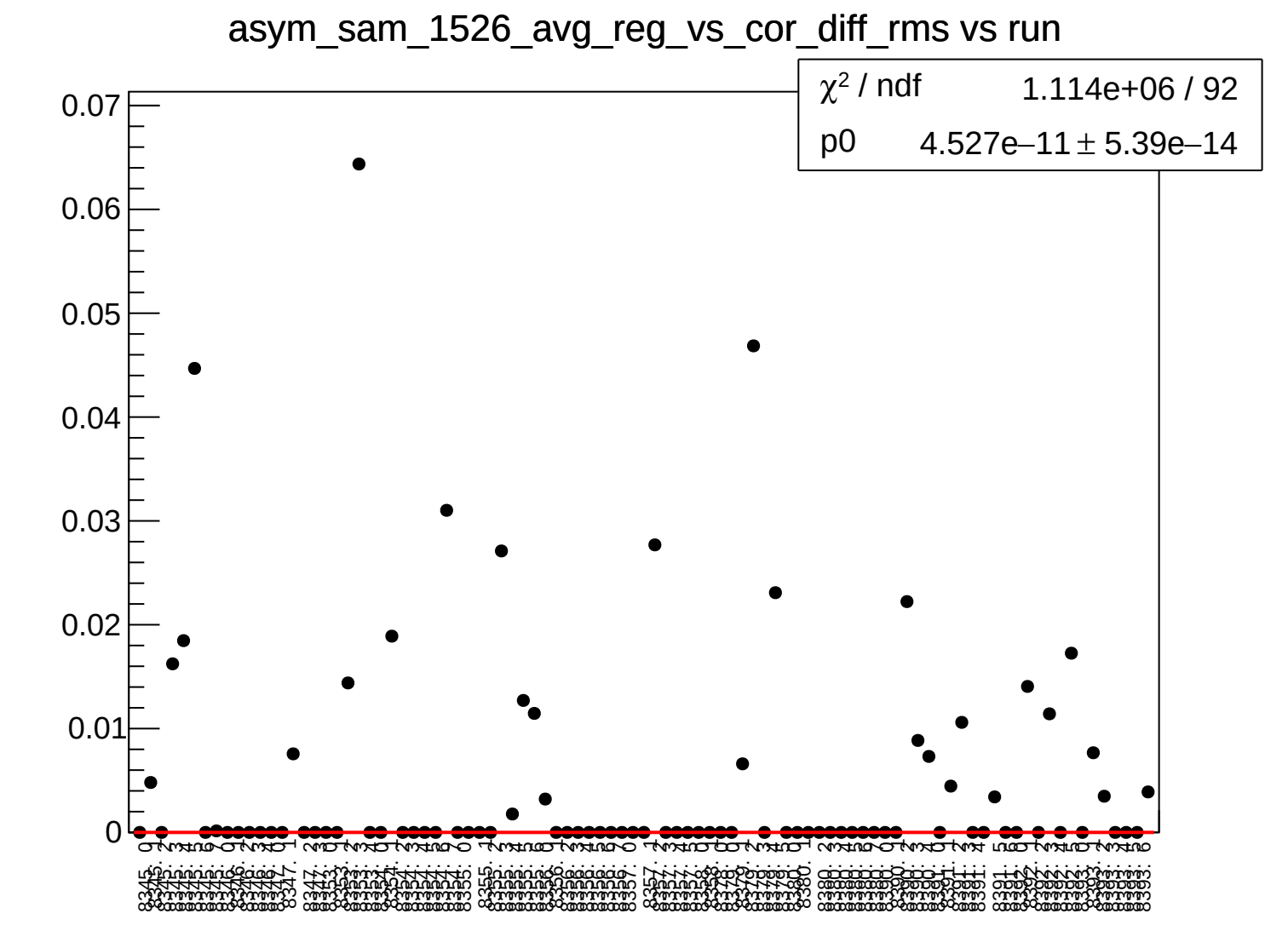

asym_sam_1526_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.59e+04 / 92
p0 748.2 ± 0.5572
1000
950
900
850
800
750
700
650

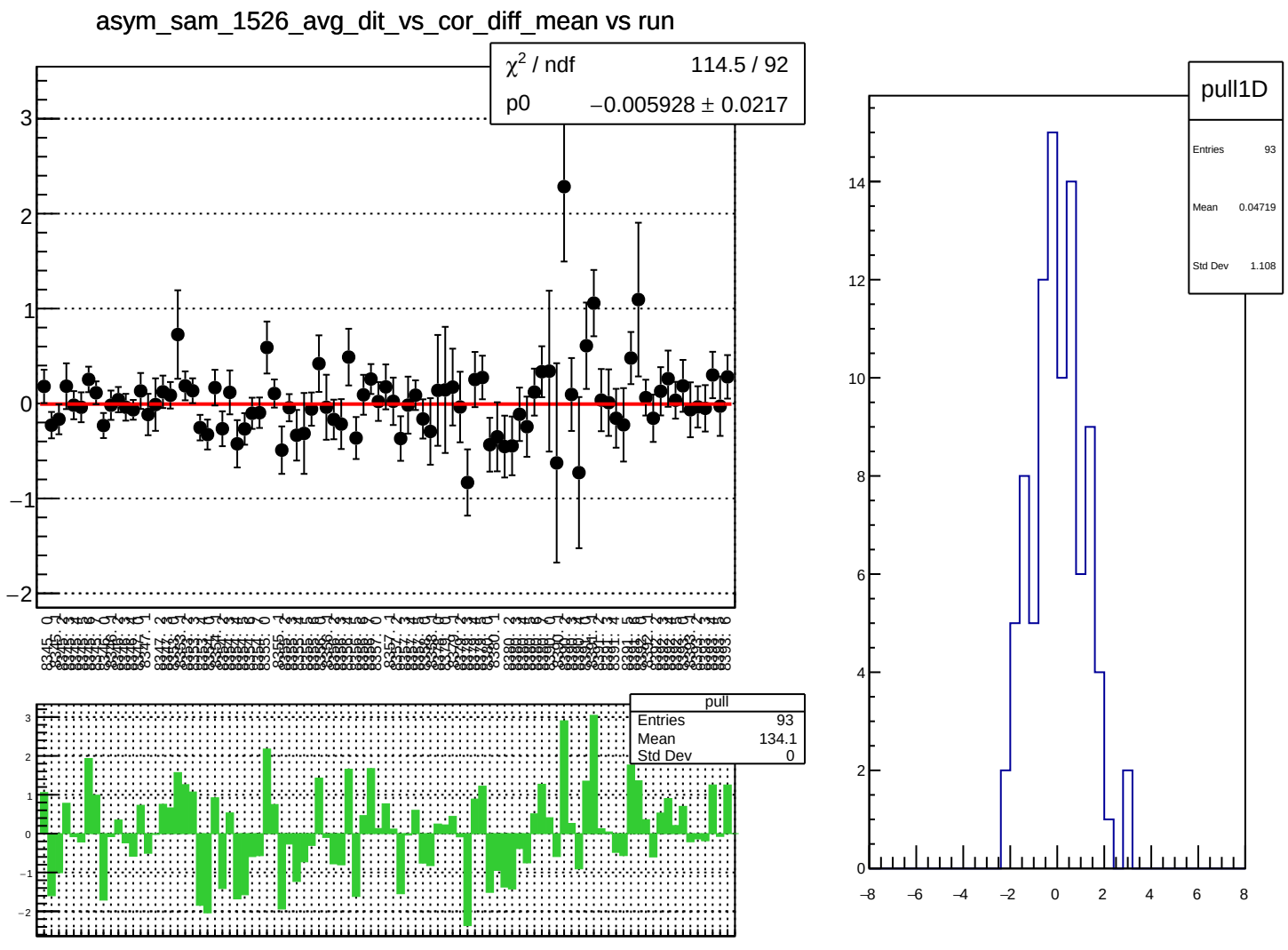

asym_sam_1526_avg_mean vs run
χ² / ndf 117.8 / 92
p0 2575 ± 791.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −436.4
Std Dev 0
3
2
1
0
−1
−2
−3

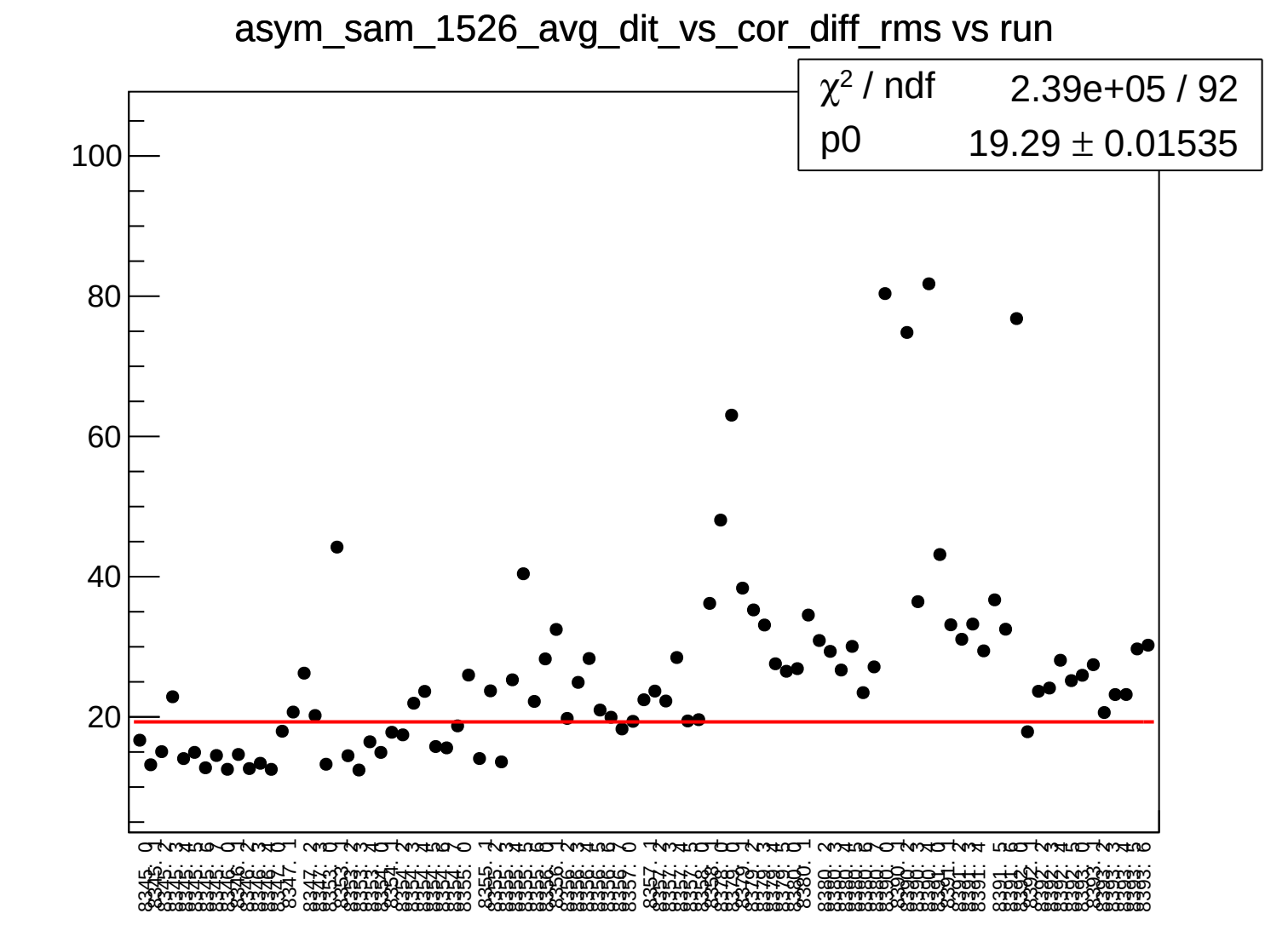

pull1D
Entries 93
Mean −0.01121
Std Dev 1.125
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

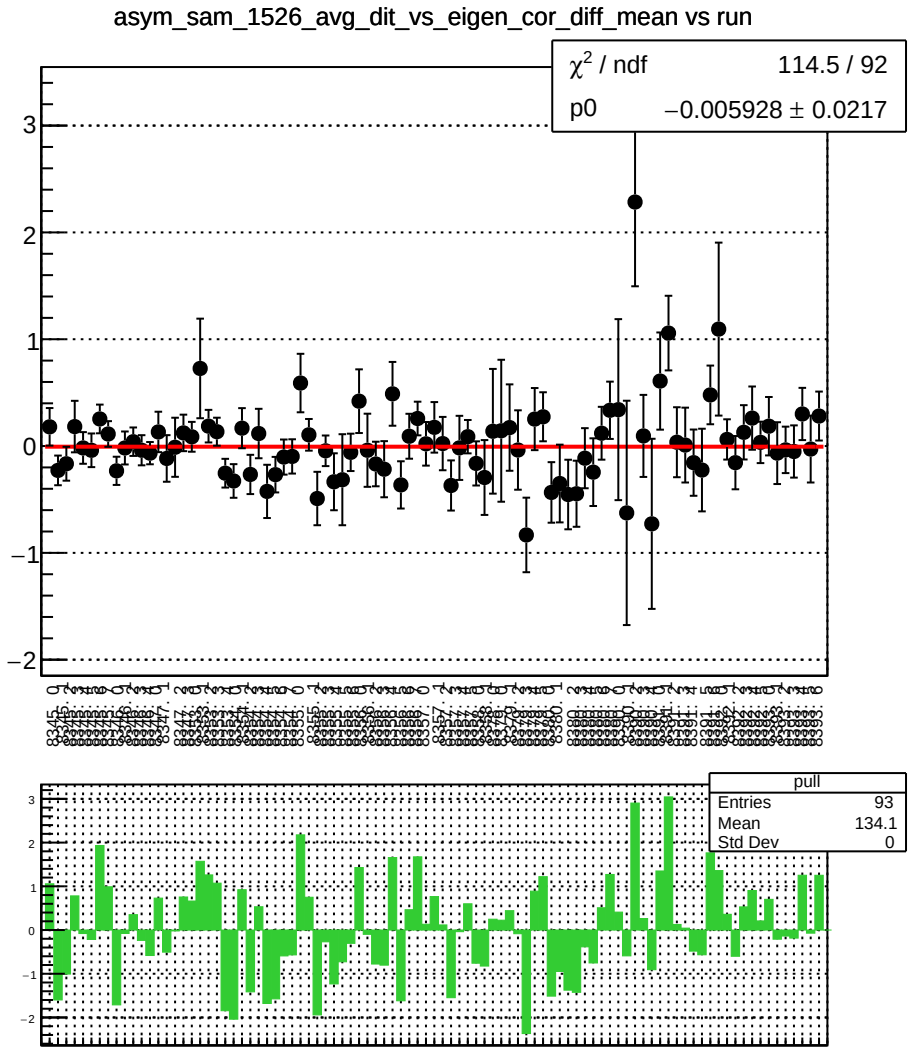

asym_sam_1526_avg_rms vs run
χ² / ndf 1.449e+04 / 92
p0 751.6 ± 0.5595
1000
950
900
850
800
750
700
650

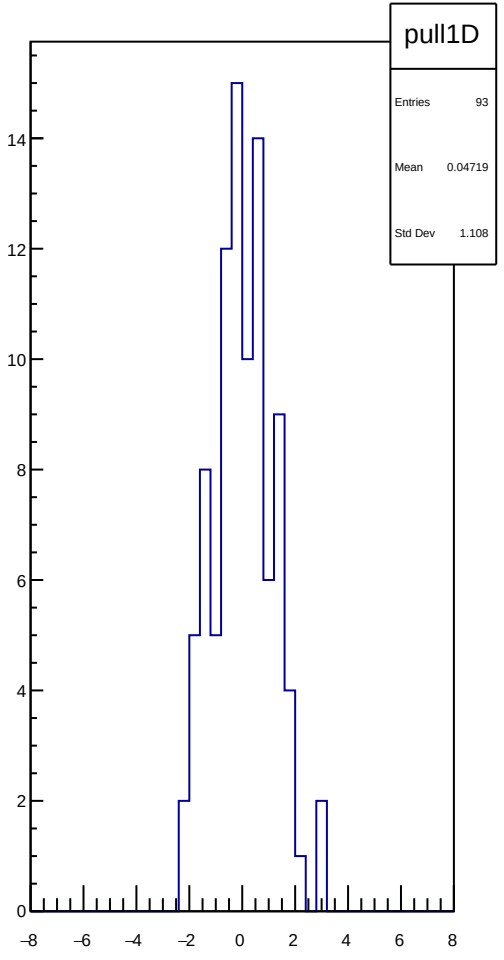

asym_sam_1526_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 107.9 / 92
p0 −5.01e−14 ± 7.623e−14
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 93
Mean 60.73
Std Dev 19.99
pull1D
Entries 93
Mean 0.04691
Std Dev 1.076

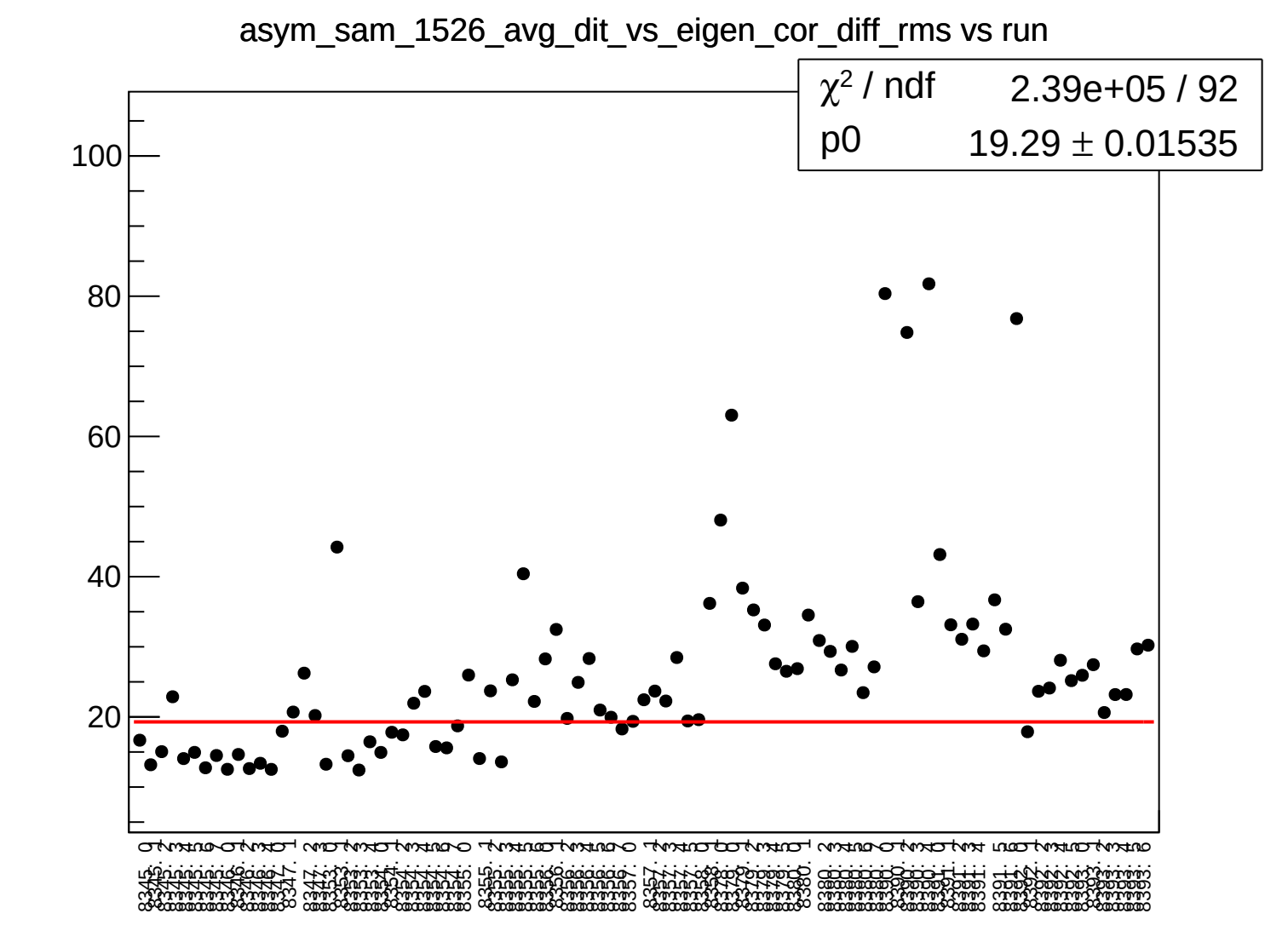

asym_sam_1526_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.114e+06 / 92
p0 4.527e−11 ± 5.39e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

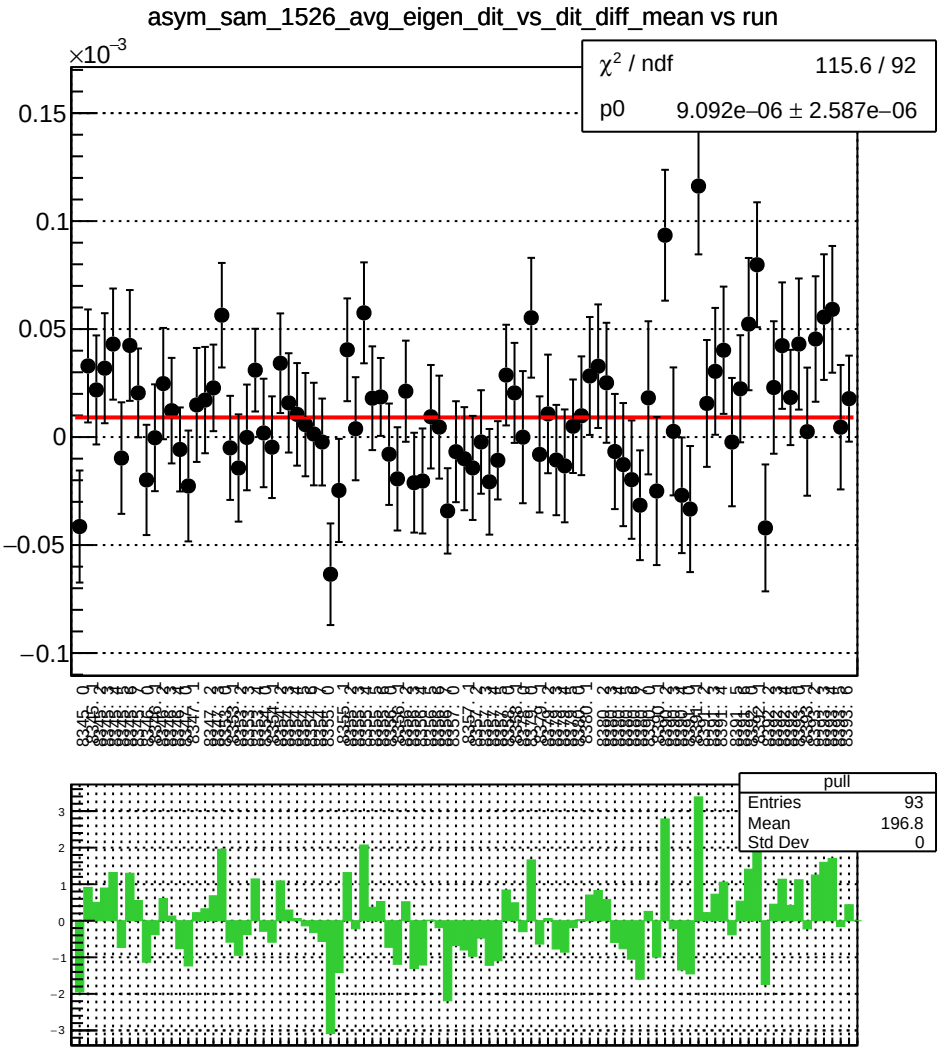

asym_sam_1526_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 114.5 / 92
p0 −0.005928 ± 0.0217
pull
Entries 93
Mean 134.1
Std Dev 0
pull1D
Entries 93
Mean 0.04719
Std Dev 1.108

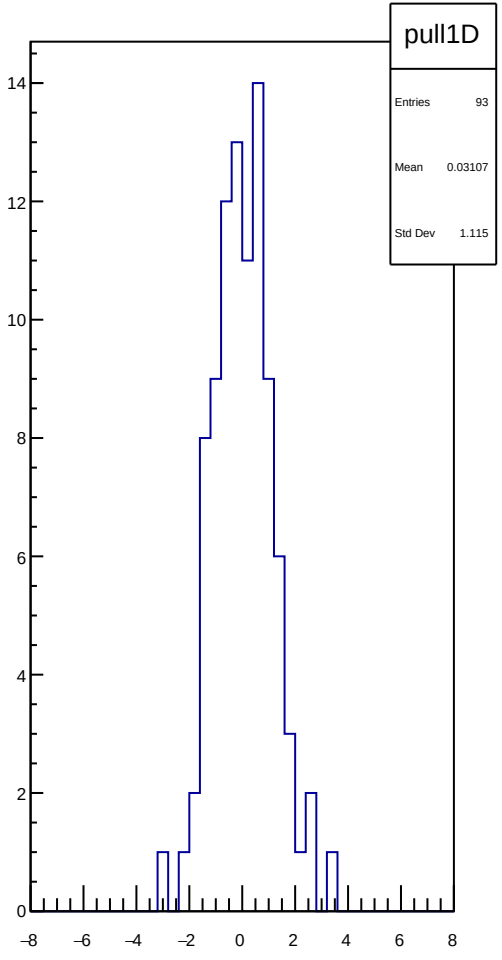

asym_sam_1526_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.39e+05 / 92
p0 19.29 ± 0.01535
100
80
60
40
20

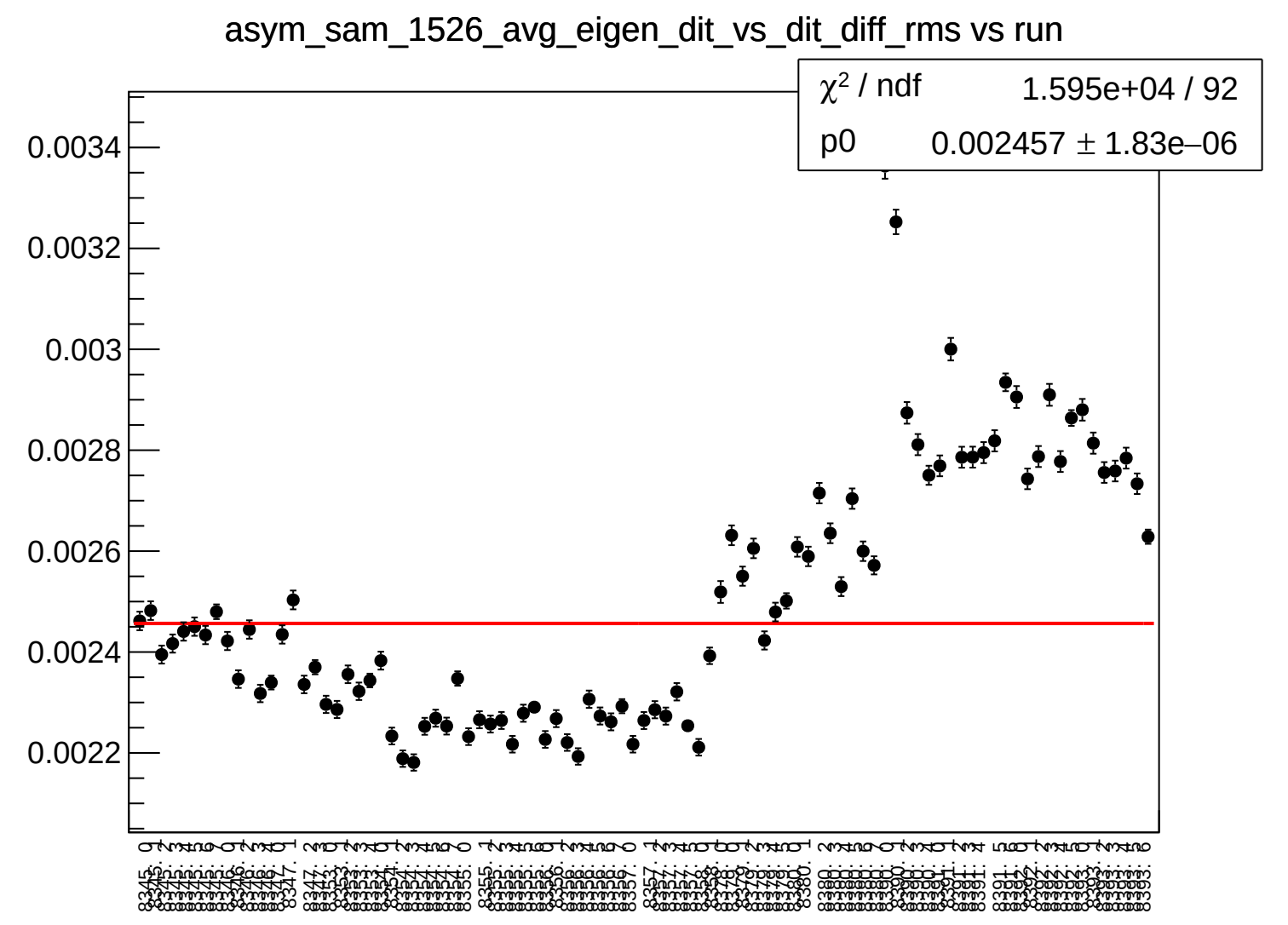

asym_sam_1526_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 114.5 / 92
p0 −0.005928 ± 0.0217
pull
Entries 93
Mean 134.1
Std Dev 0

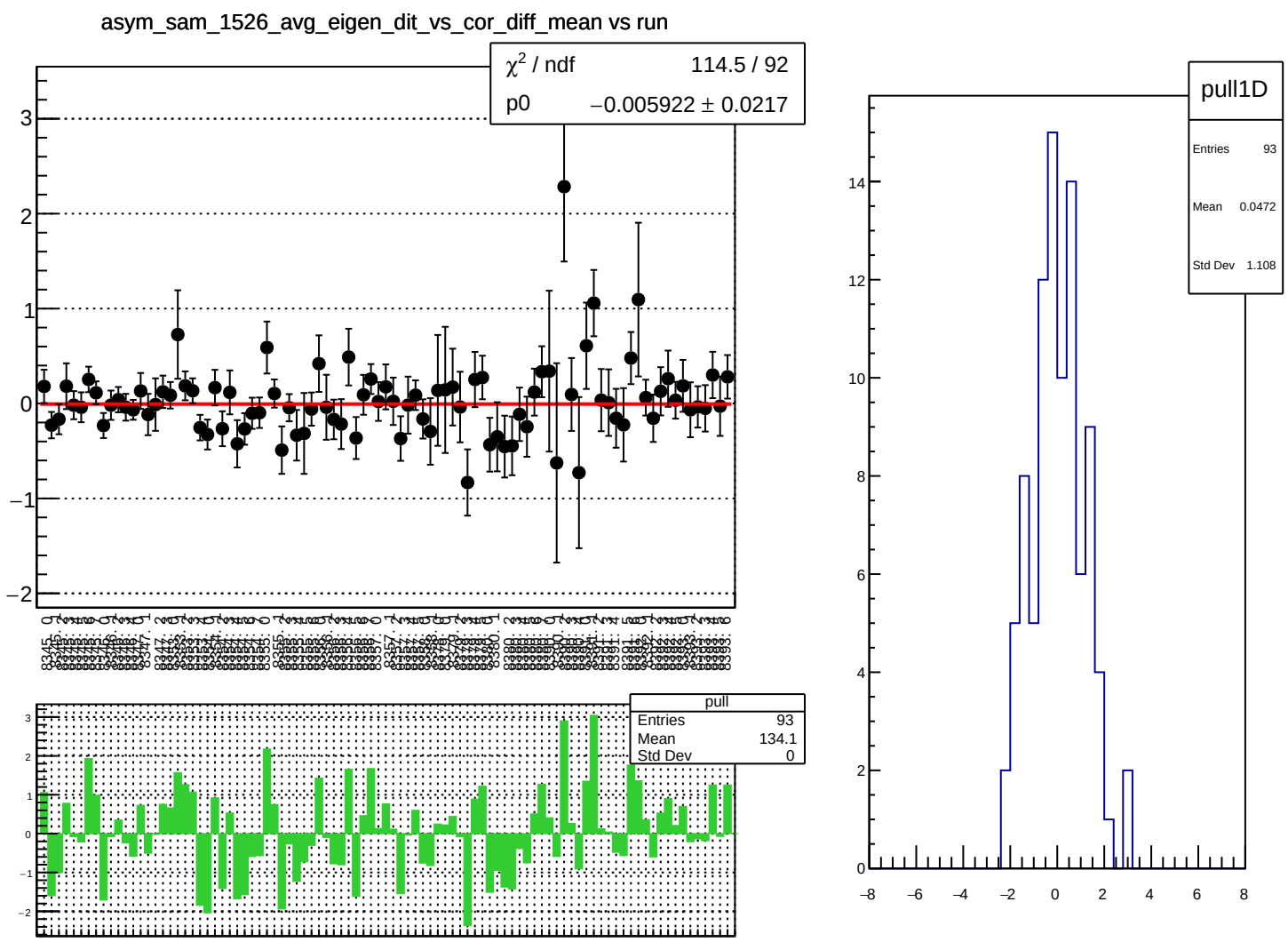

pull1D
Entries 93
Mean 0.04719
Std Dev 1.108

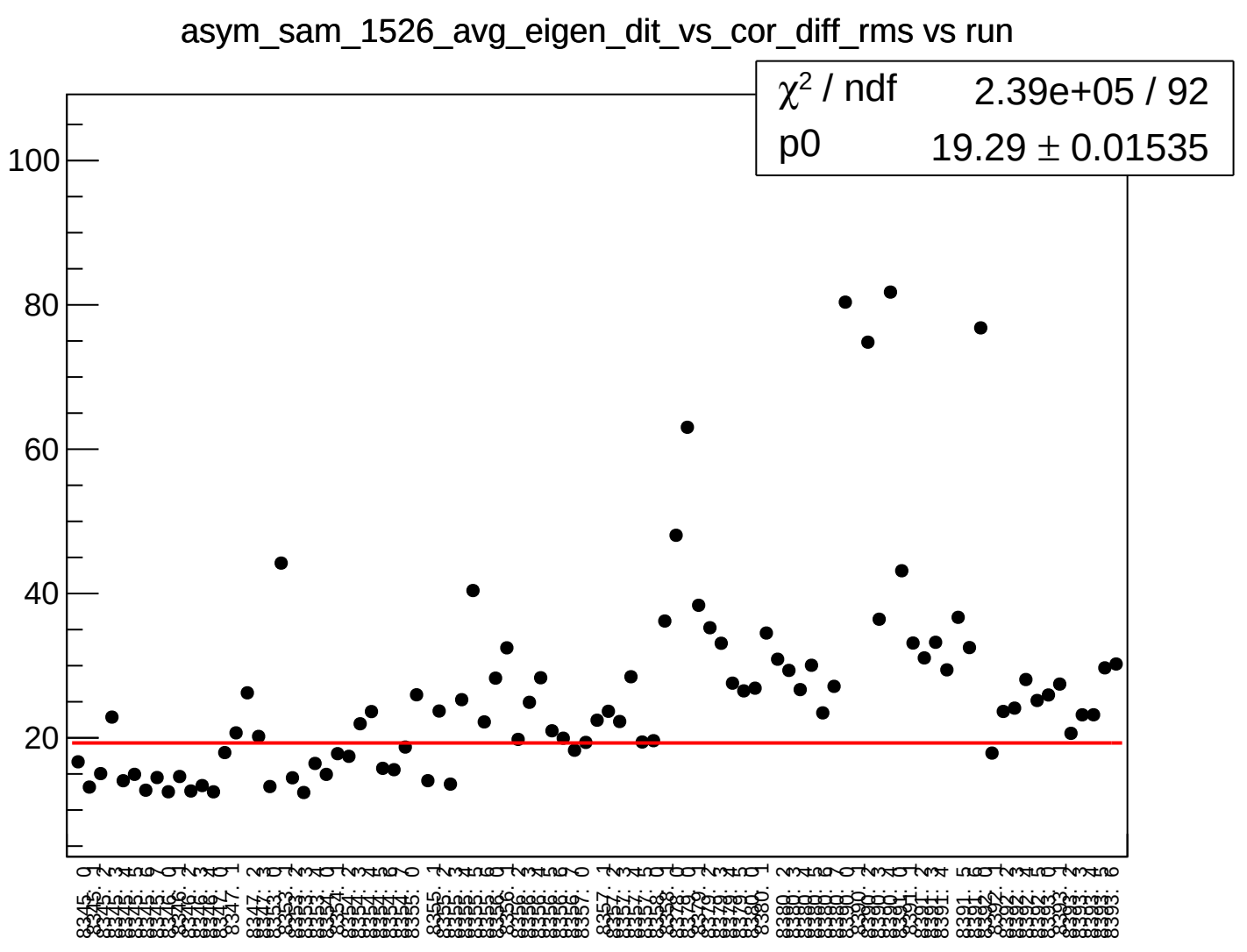

asym_sam_1526_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.39e+05 / 92
p0 19.29 ± 0.01535
100
80
60
40
20

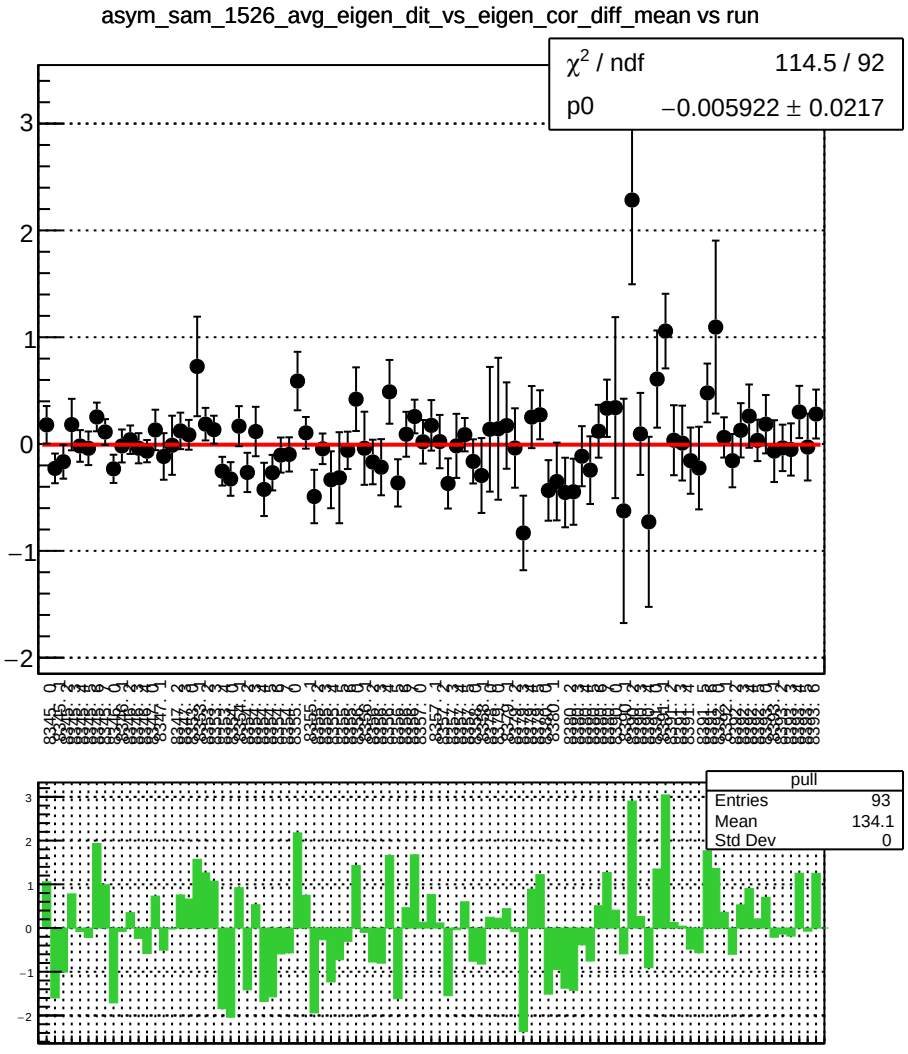

asym_sam_1526_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 115.6 / 92
p0 9.092e−06 ± 2.587e−06
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 93
Mean 196.8
Std Dev 0
3
2
1
0
−1
−2
−3

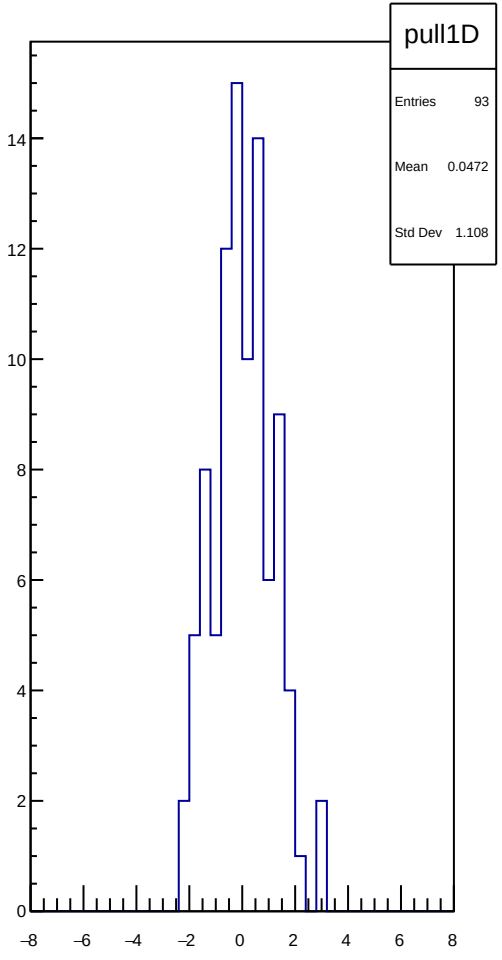

pull1D
Entries 93
Mean 0.03107
Std Dev 1.115
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

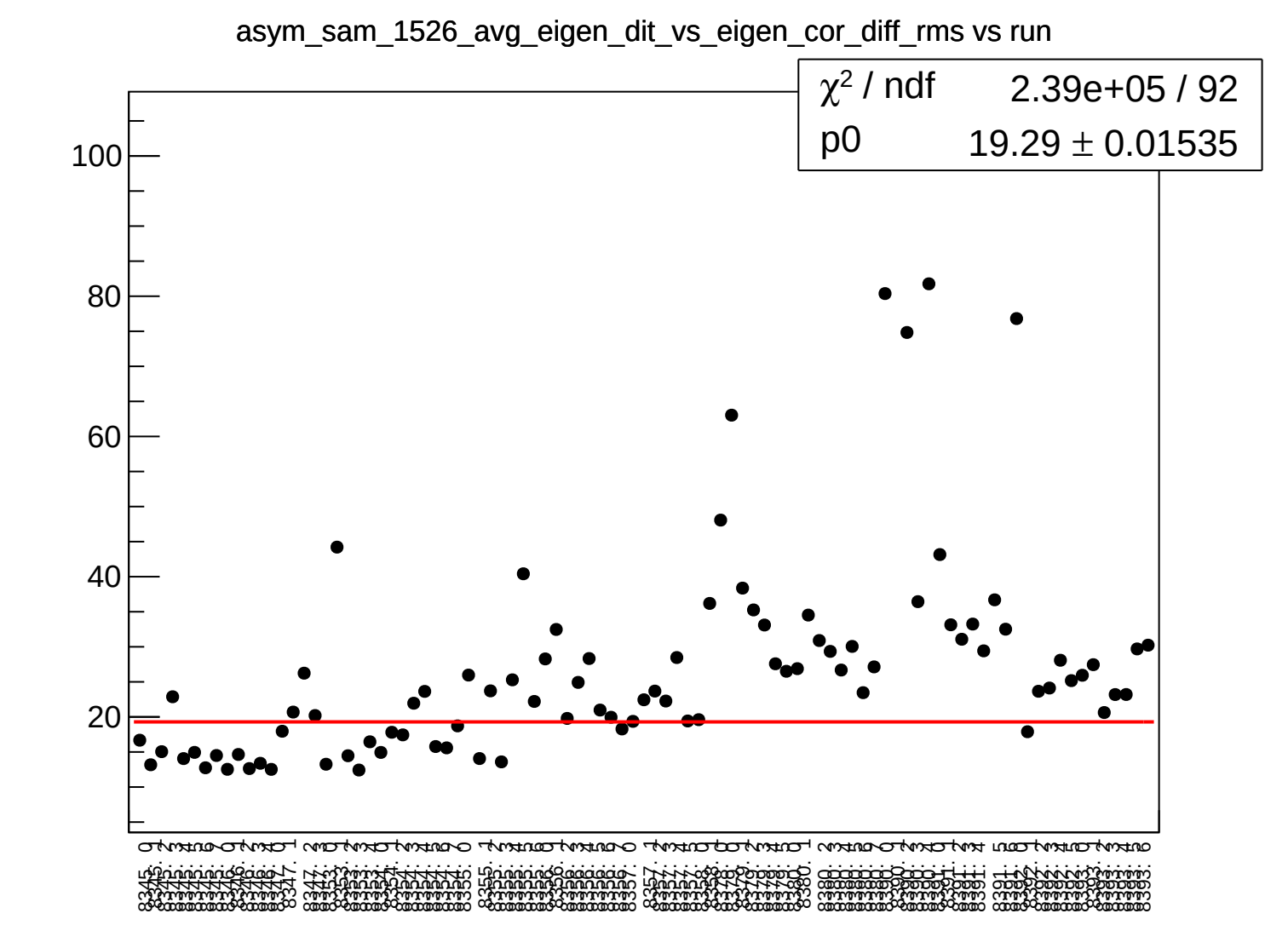

asym_sam_1526_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.595e+04 / 92
p0 0.002457 ± 1.83e−06
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022

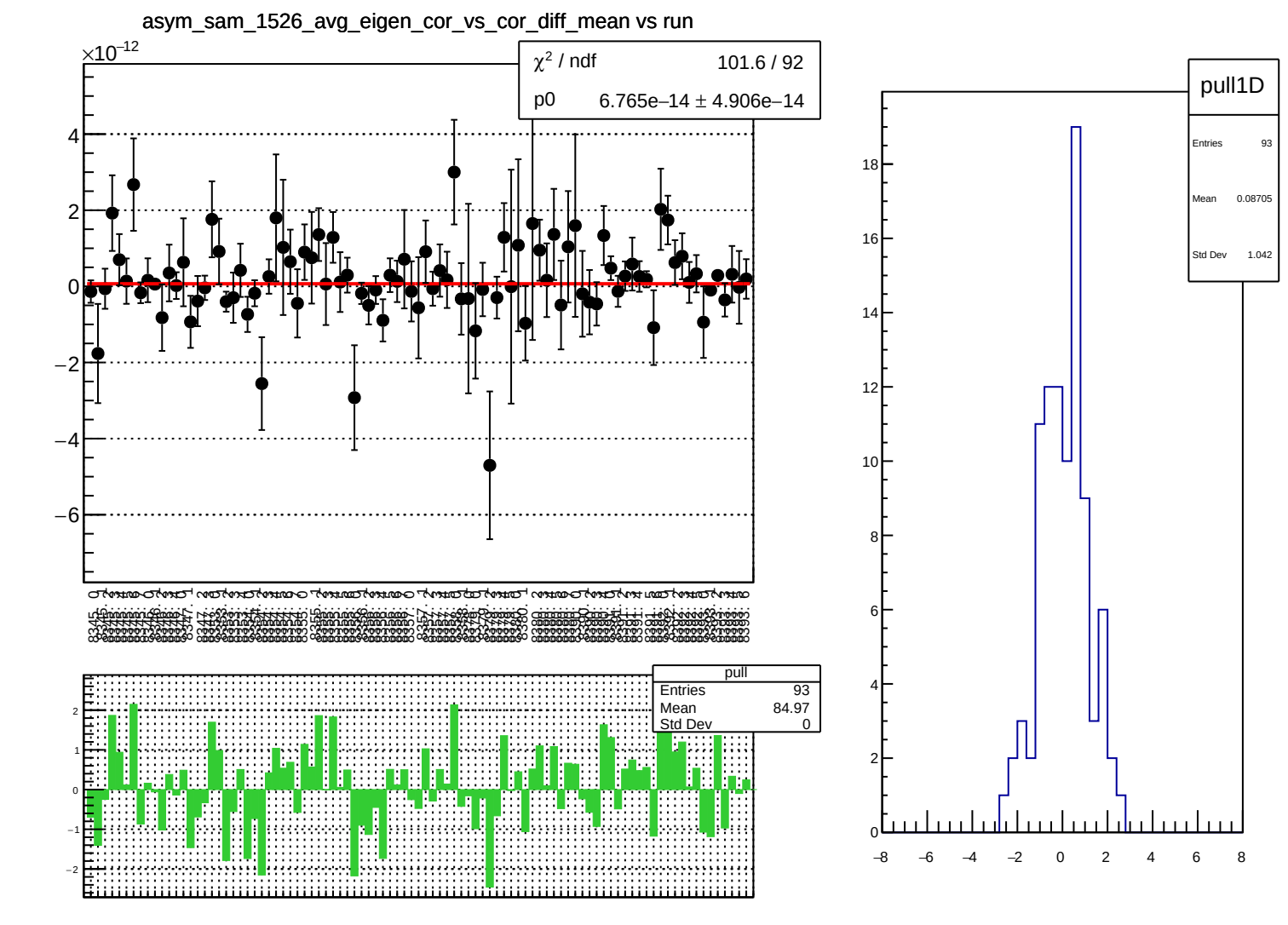

asym_sam_1526_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 114.5 / 92
p0 −0.005922 ± 0.0217
pull
Entries 93
Mean 134.1
Std Dev 0
pull1D
Entries 93
Mean 0.0472
Std Dev 1.108

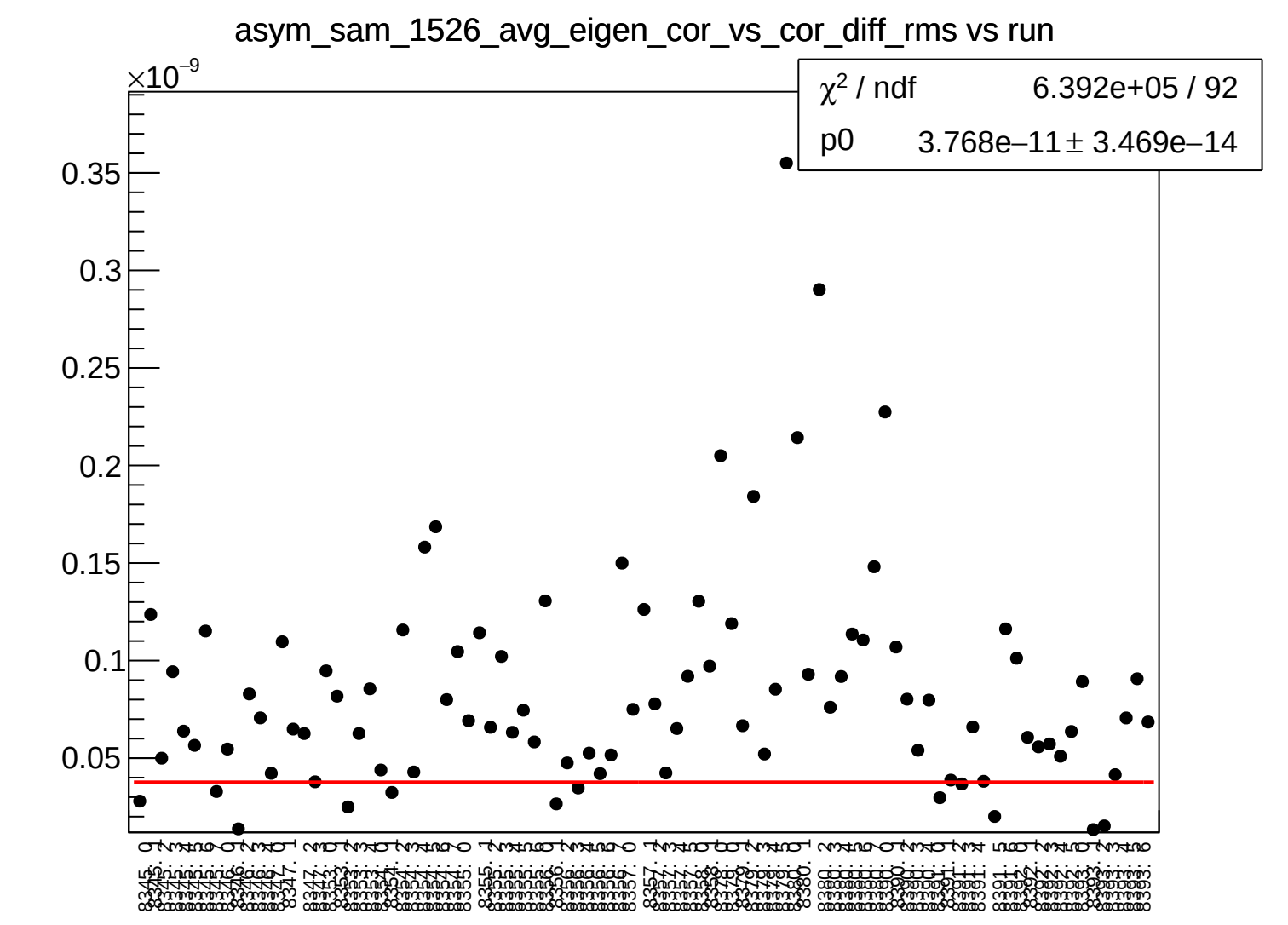

asym_sam_1526_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.39e+05 / 92
p0 19.29 ± 0.01535
100
80
60
40
20

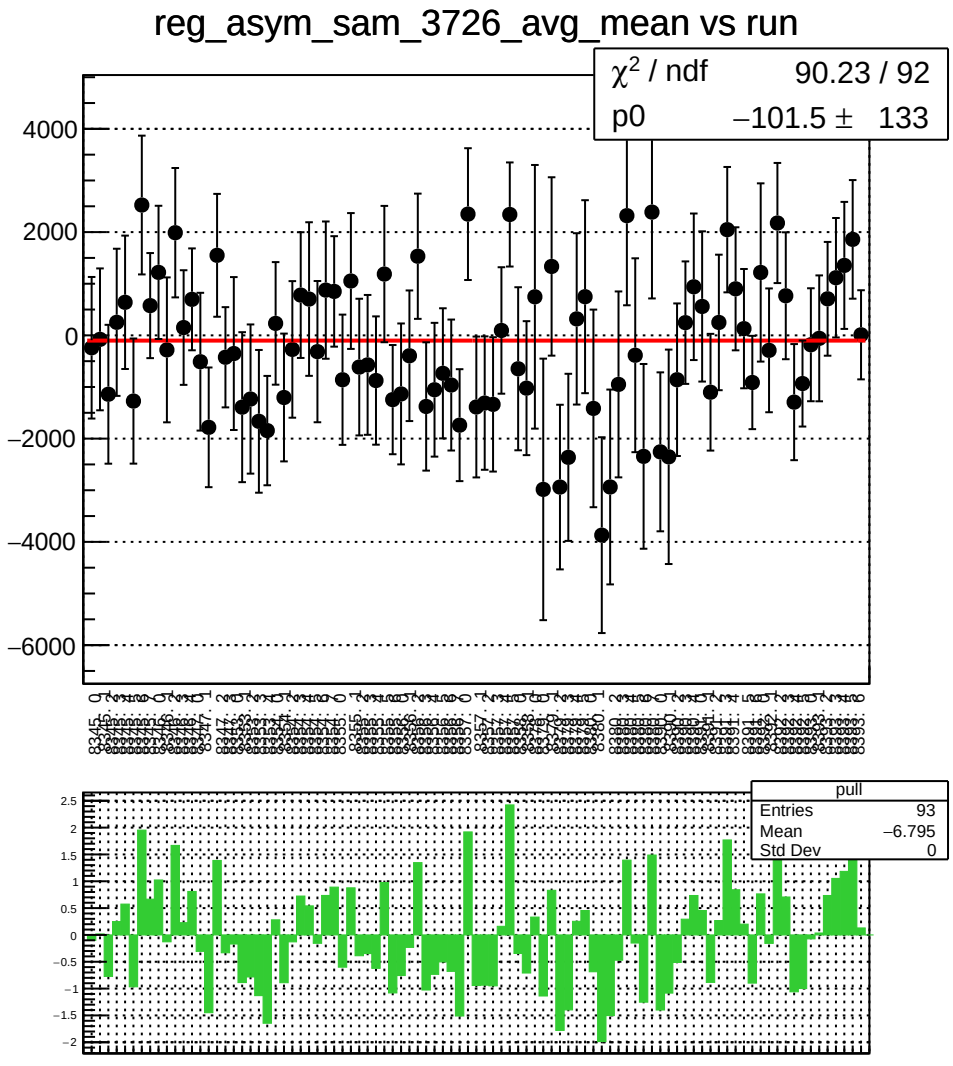

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 114.5 / 92
p0 −0.005922 ± 0.0217
pull
Entries 93
Mean 134.1
Std Dev 0

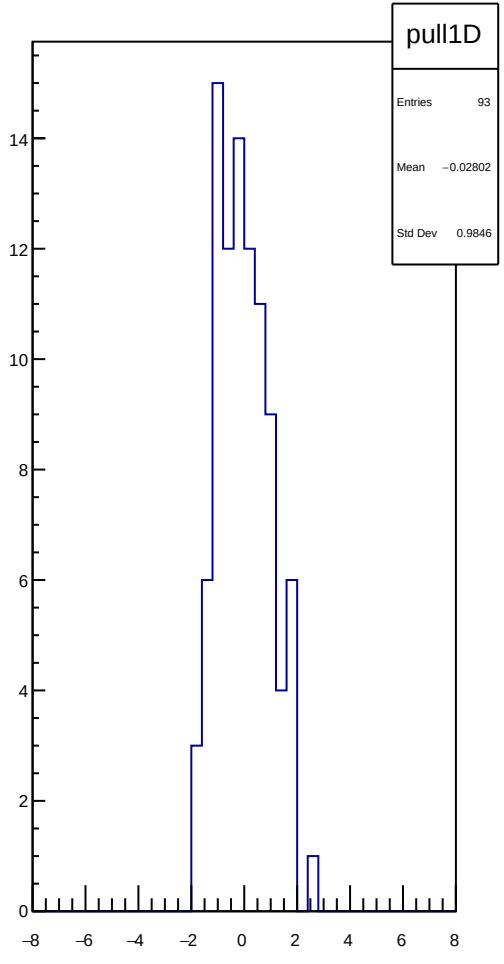

pull1D
Entries 93
Mean 0.0472
Std Dev 1.108

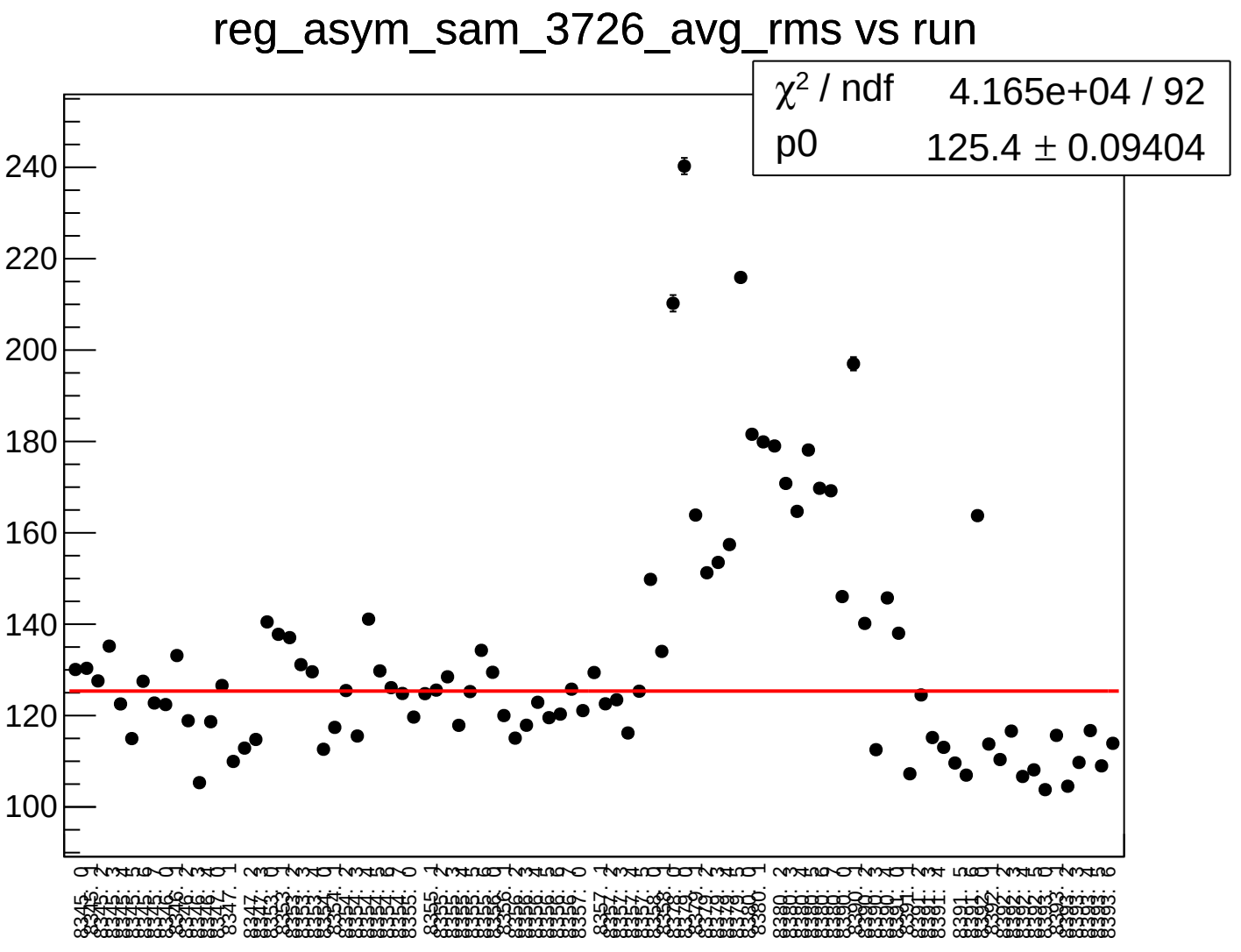

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.39e+05 / 92
p0 19.29 ± 0.01535
100
80
60
40
20

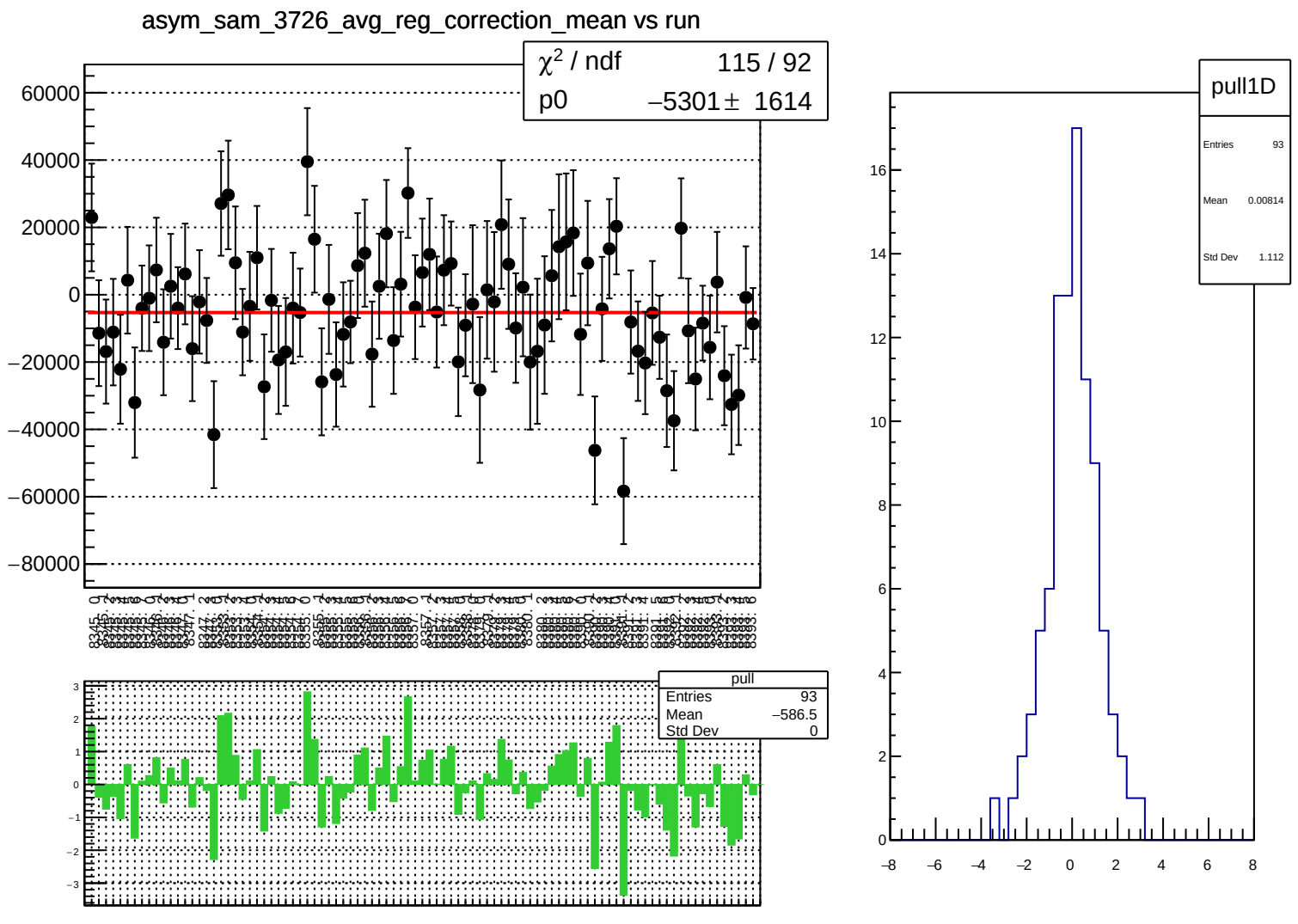

asym_sam_1526_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 101.6 / 92
p0 6.765e−14 ± 4.906e−14
pull
Entries 93
Mean 84.97
Std Dev 0
pull1D
Entries 93
Mean 0.08705
Std Dev 1.042

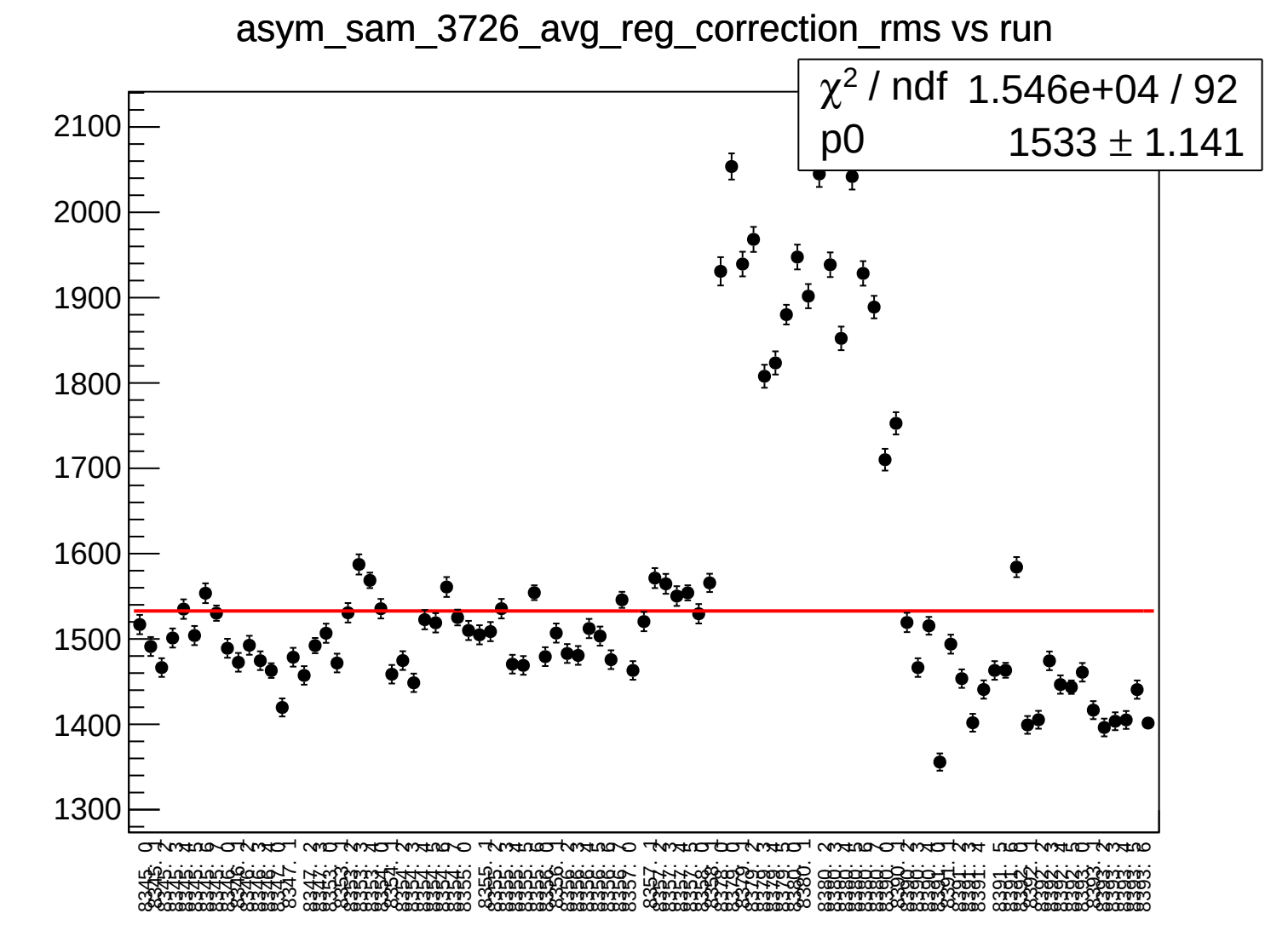

asym_sam_1526_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.392e+05 / 92
p0 3.768e−11 ± 3.469e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

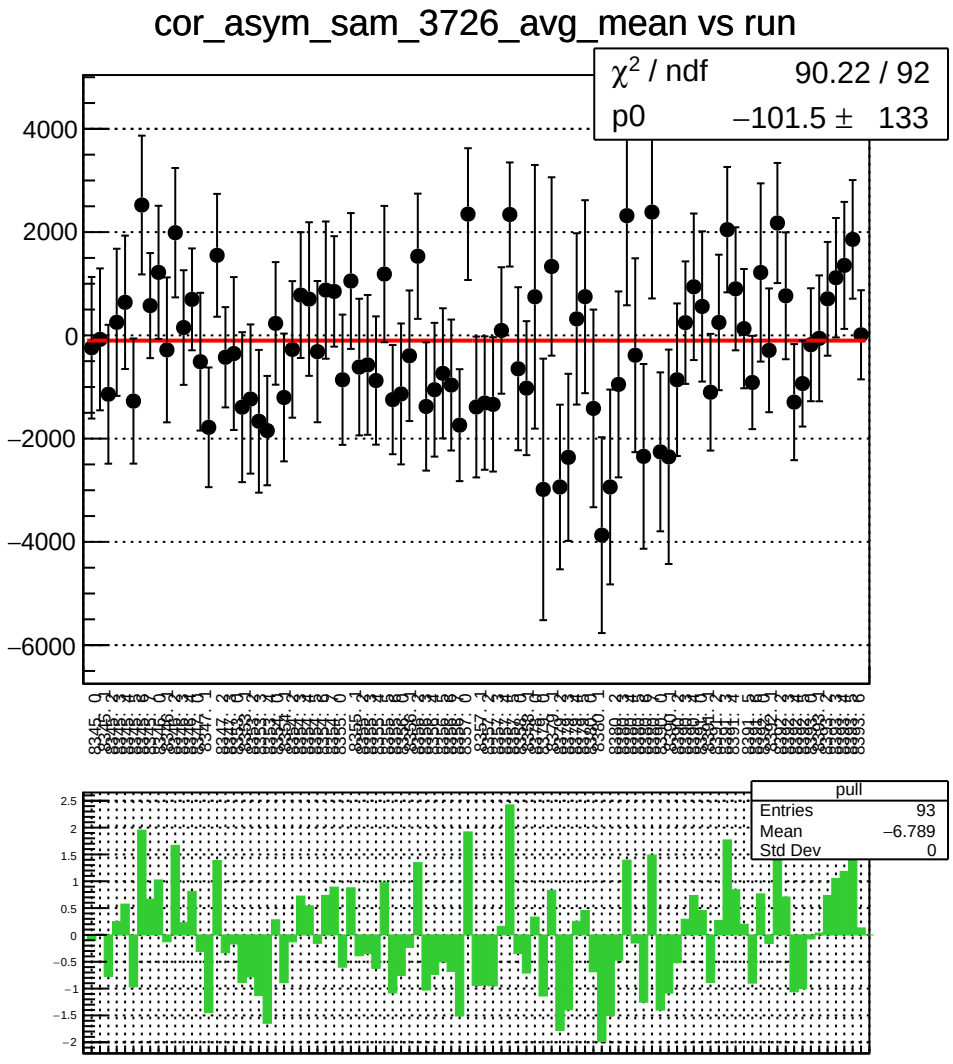

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 90.23 / 92
p0 −101.5 ± 133
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean −6.795
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

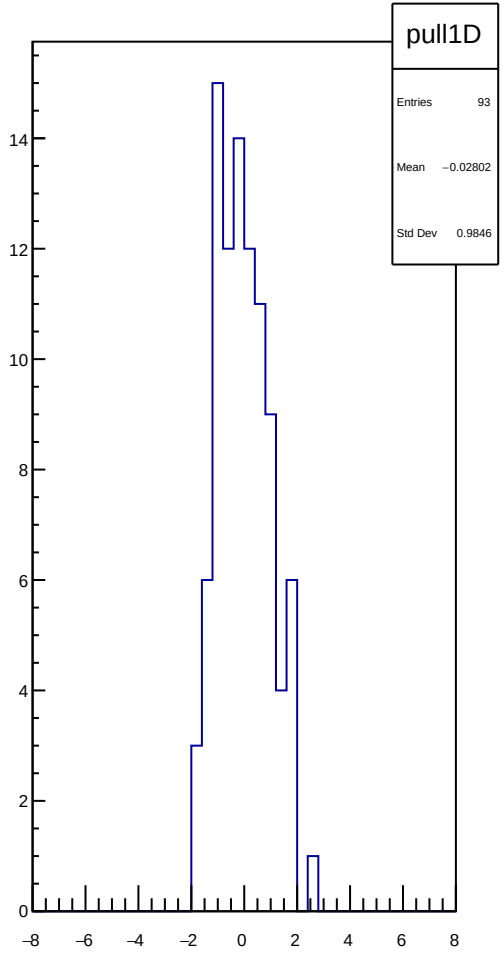

pull1D
Entries 93
Mean −0.02802
Std Dev 0.9846
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

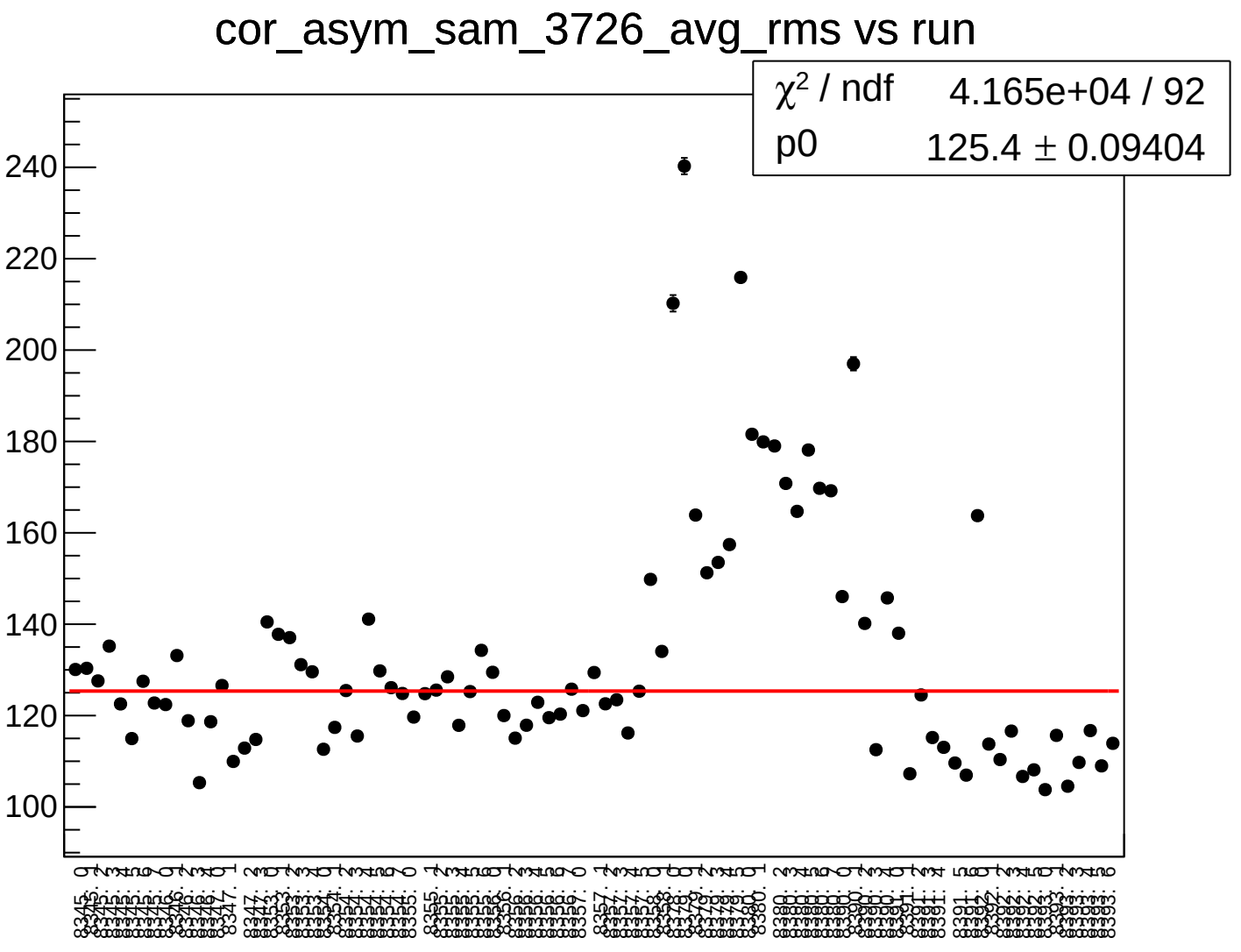

reg_asym_sam_3726_avg_rms vs run
χ^2 / ndf 4.165e+04 / 92
p0 125.4 ± 0.09404
240
220
200
180
160
140
120
100

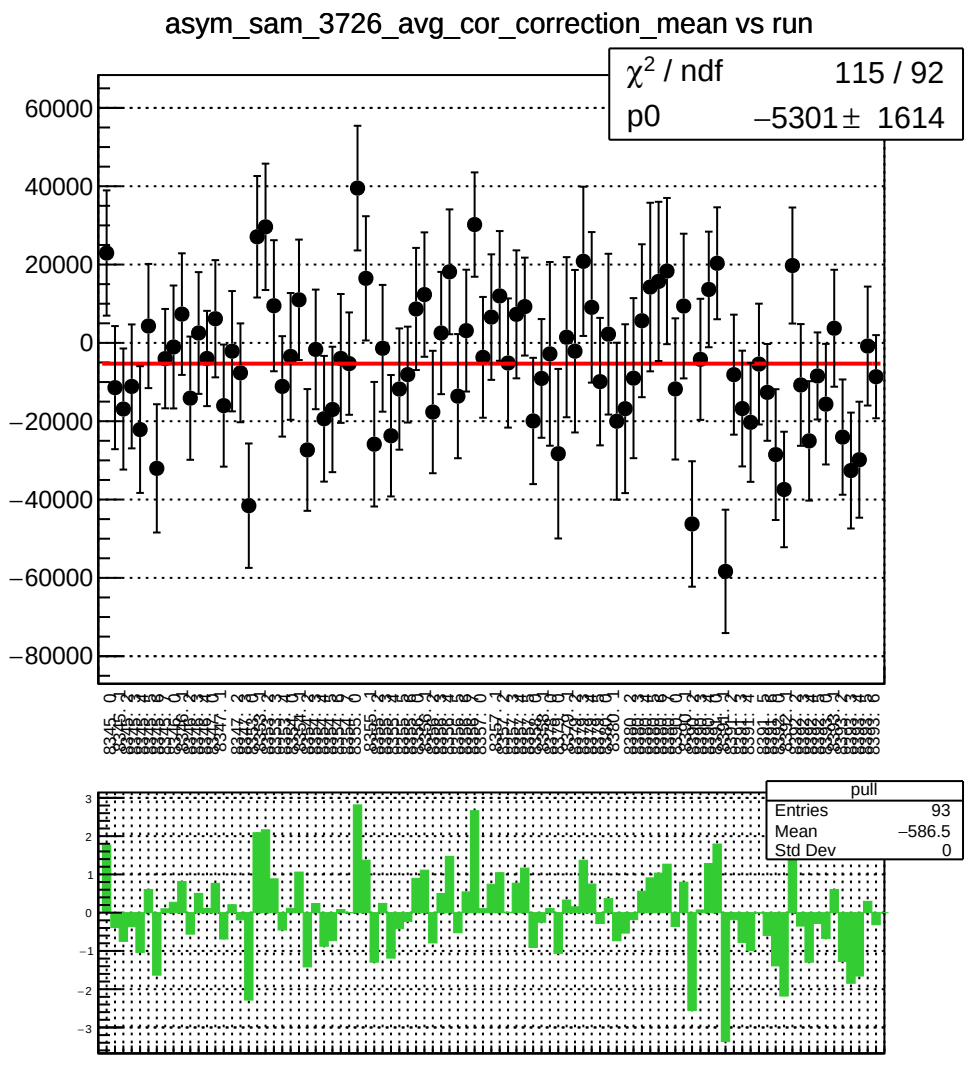

asym_sam_3726_avg_reg_correction_mean vs run
χ² / ndf 115 / 92
p0 −5301 ± 1614
pull
Entries 93
Mean −586.5
Std Dev 0
pull1D
Entries 93
Mean 0.00814
Std Dev 1.112

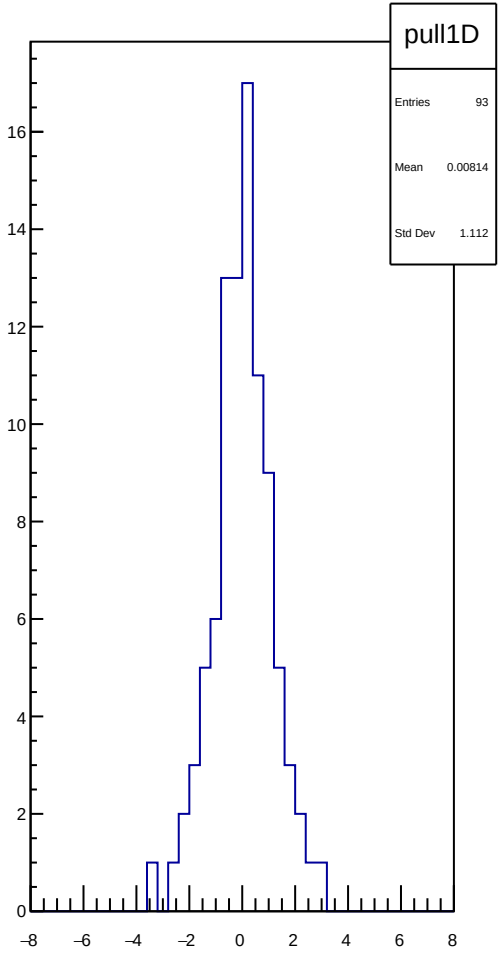

asym_sam_3726_avg_reg_correction_rms vs run
χ² / ndf 1.546e+04 / 92
p0 1533 ± 1.141
2100
2000
1900
1800
1700
1600
1500
1400
1300

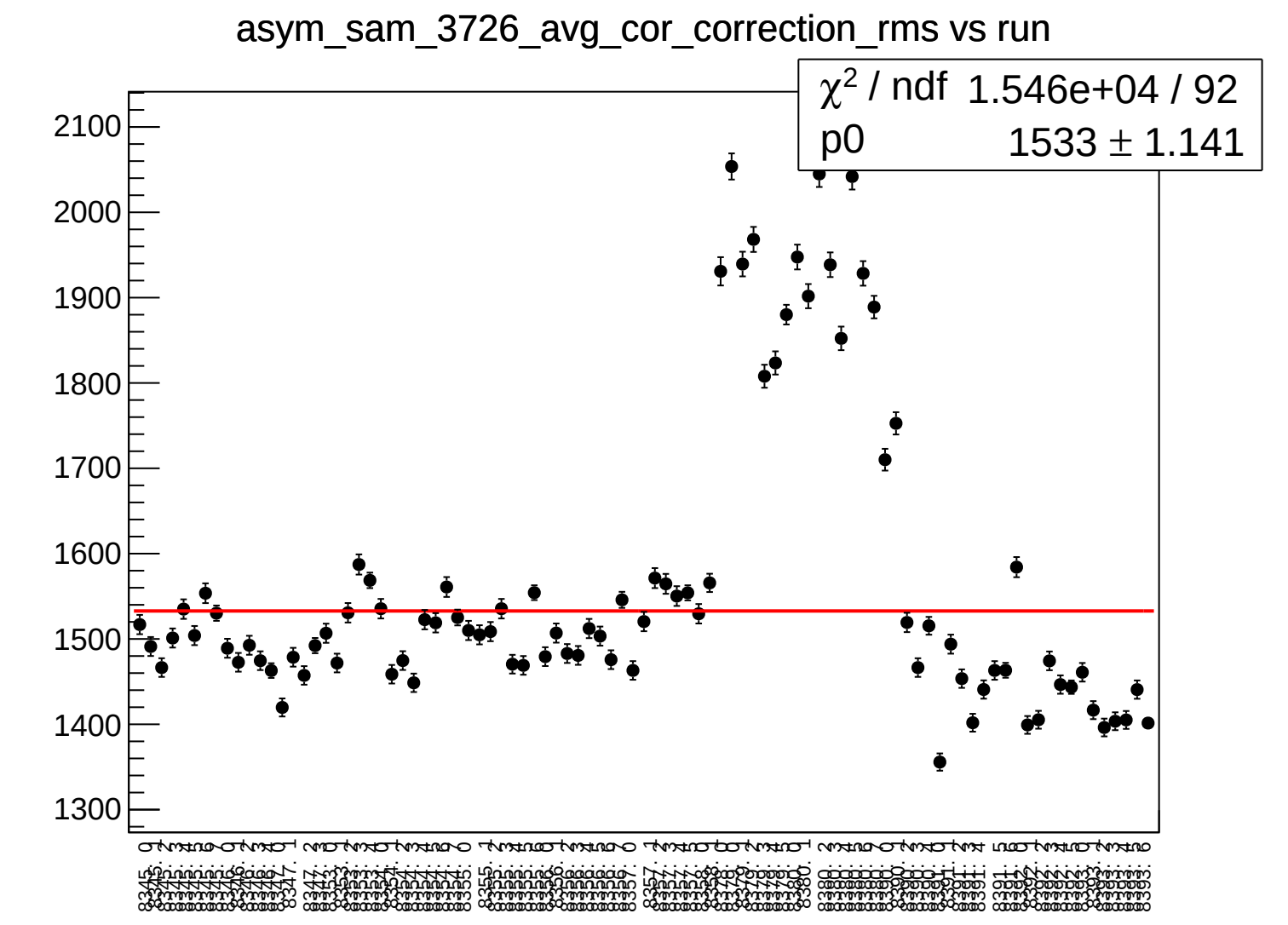

cor_asym_sam_3726_avg_mean vs run
χ² / ndf 90.22 / 92
p0 −101.5 ± 133
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean −6.789
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

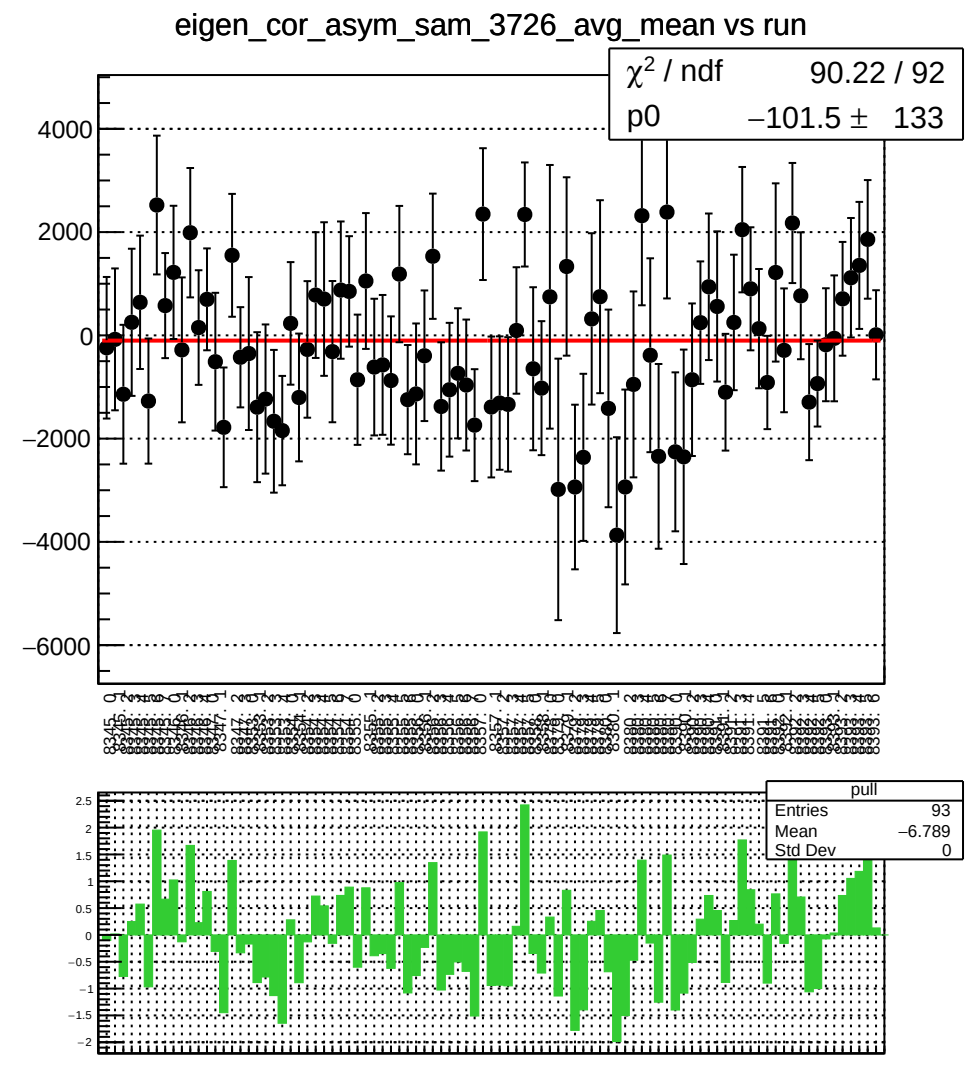

pull1D
Entries 93
Mean −0.02802
Std Dev 0.9846
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

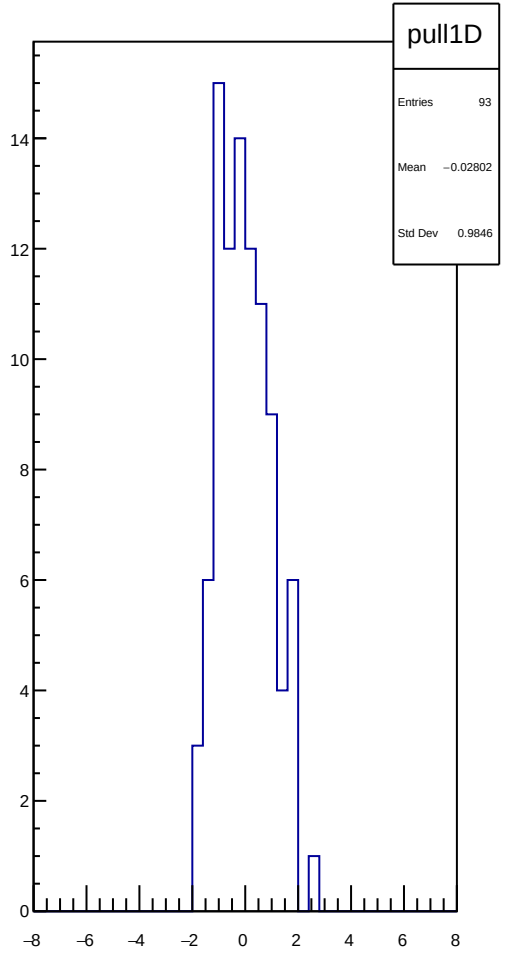

cor_asym_sam_3726_avg_rms vs run
χ² / ndf 4.165e+04 / 92
p0 125.4 ± 0.09404
240
220
200
180
160
140
120
100

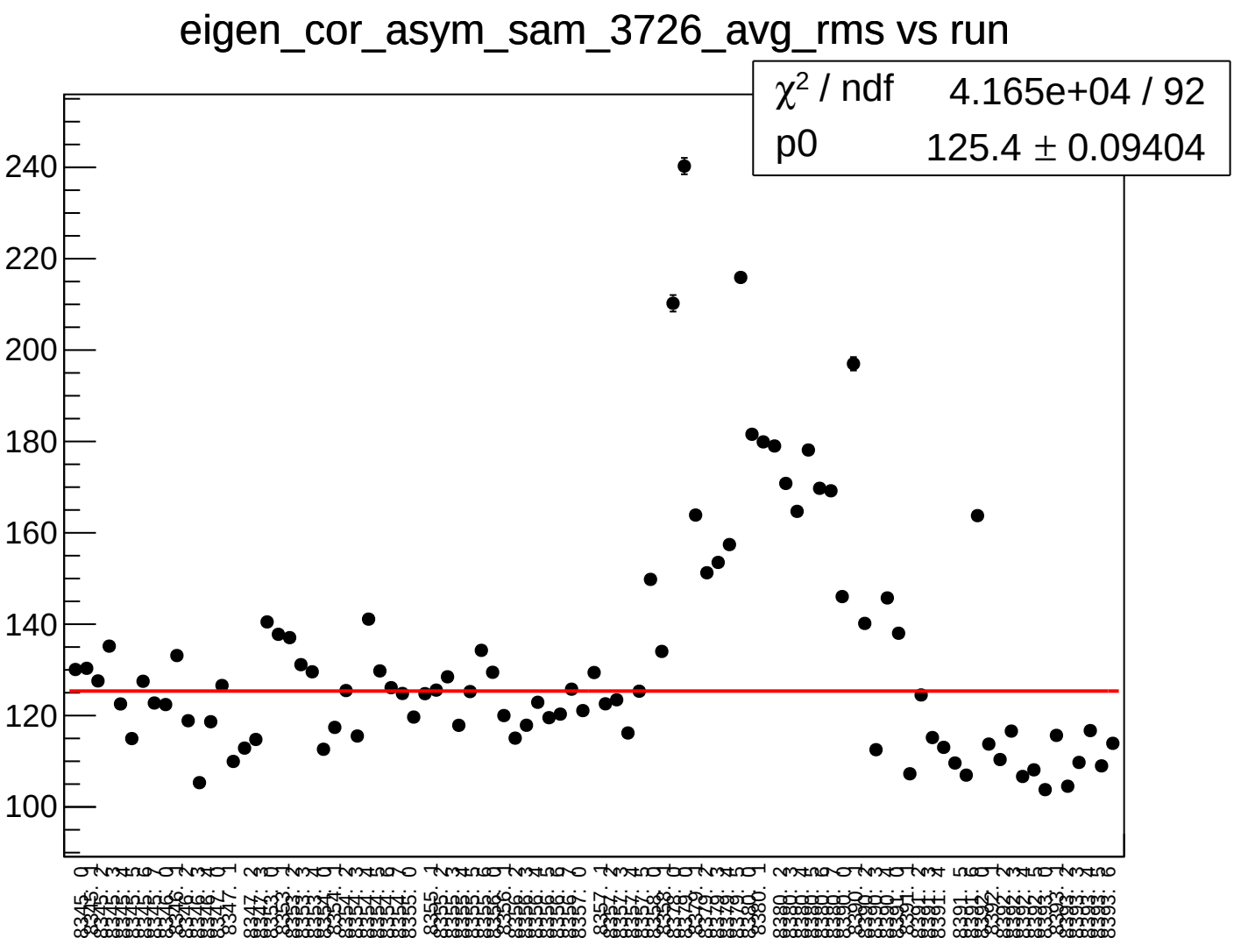

asym_sam_3726_avg_cor_correction_mean vs run
χ² / ndf 115 / 92
p0 −5301 ± 1614
pull
Entries 93
Mean −586.5
Std Dev 0

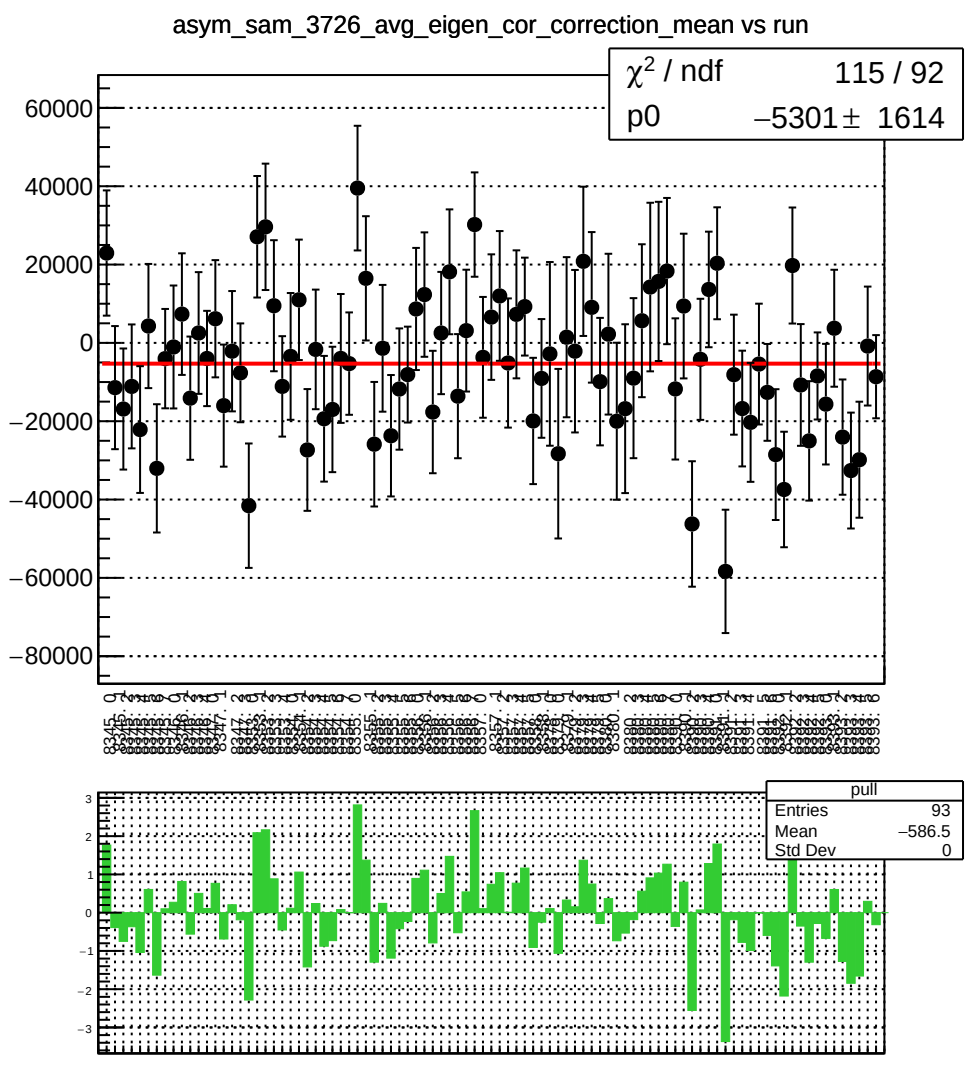

pull1D
Entries 93
Mean 0.00814
Std Dev 1.112

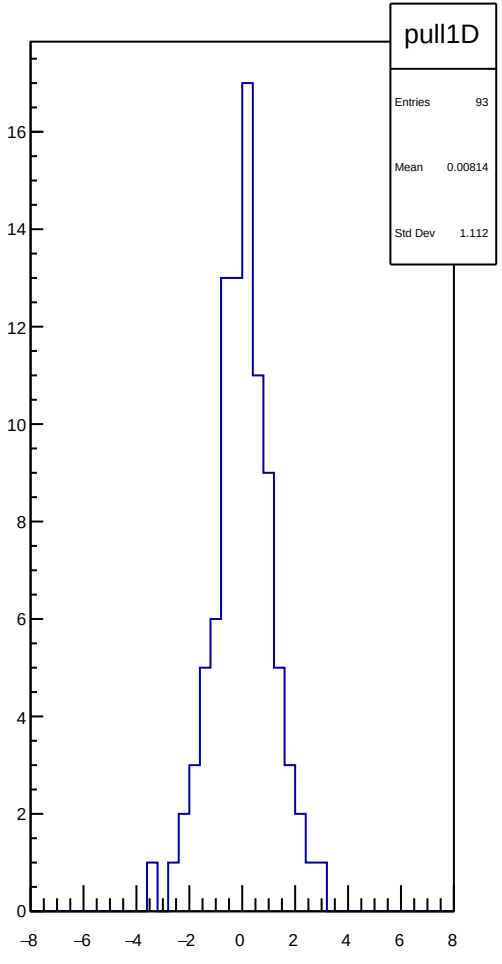

asym_sam_3726_avg_cor_correction_rms vs run
χ² / ndf 1.546e+04 / 92
p0 1533 ± 1.141
2100
2000
1900
1800
1700
1600
1500
1400
1300

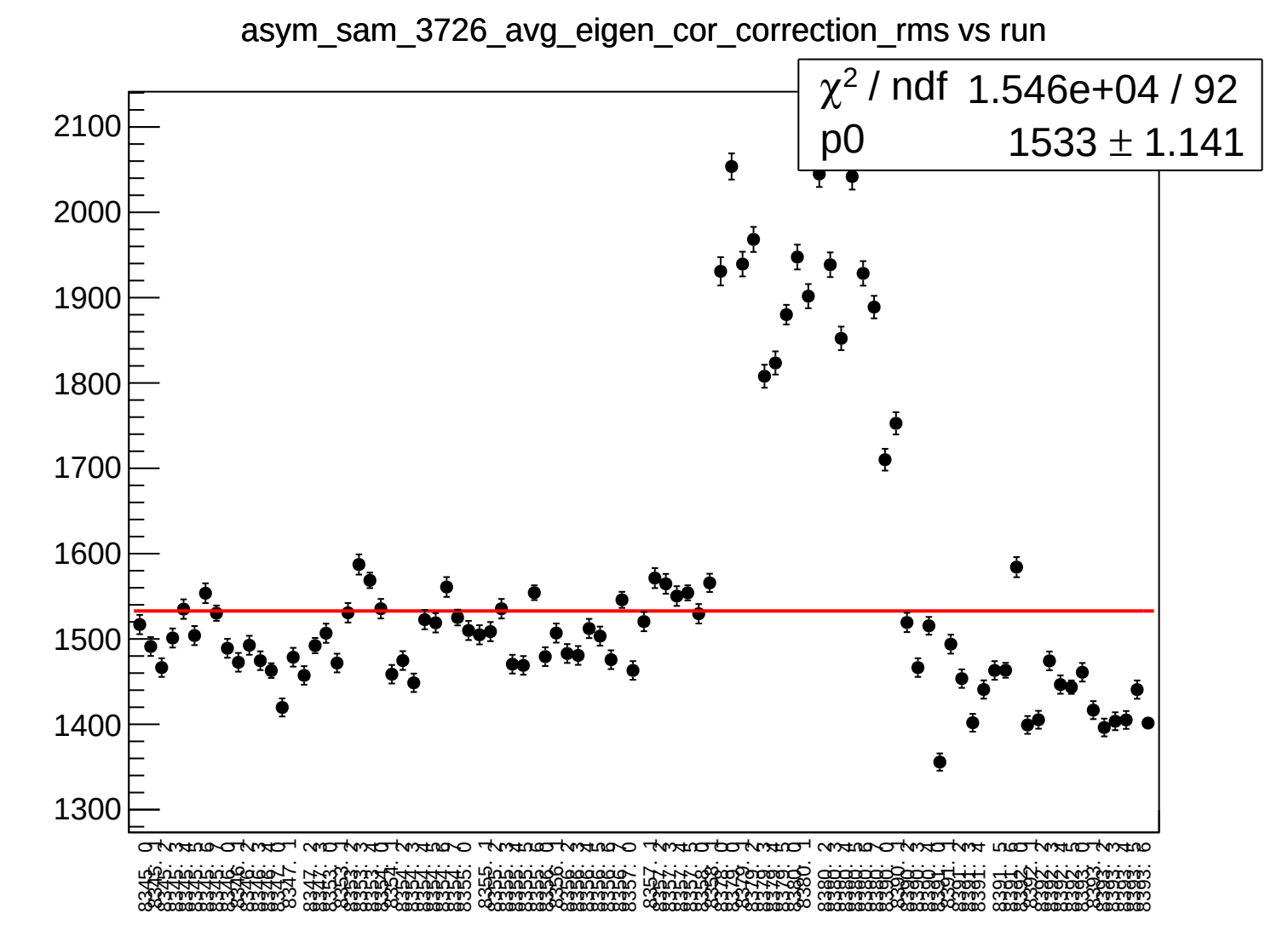

eigen_cor_asym_sam_3726_avg_mean vs run
χ² / ndf 90.22 / 92
p0 −101.5 ± 133
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean −6.789
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

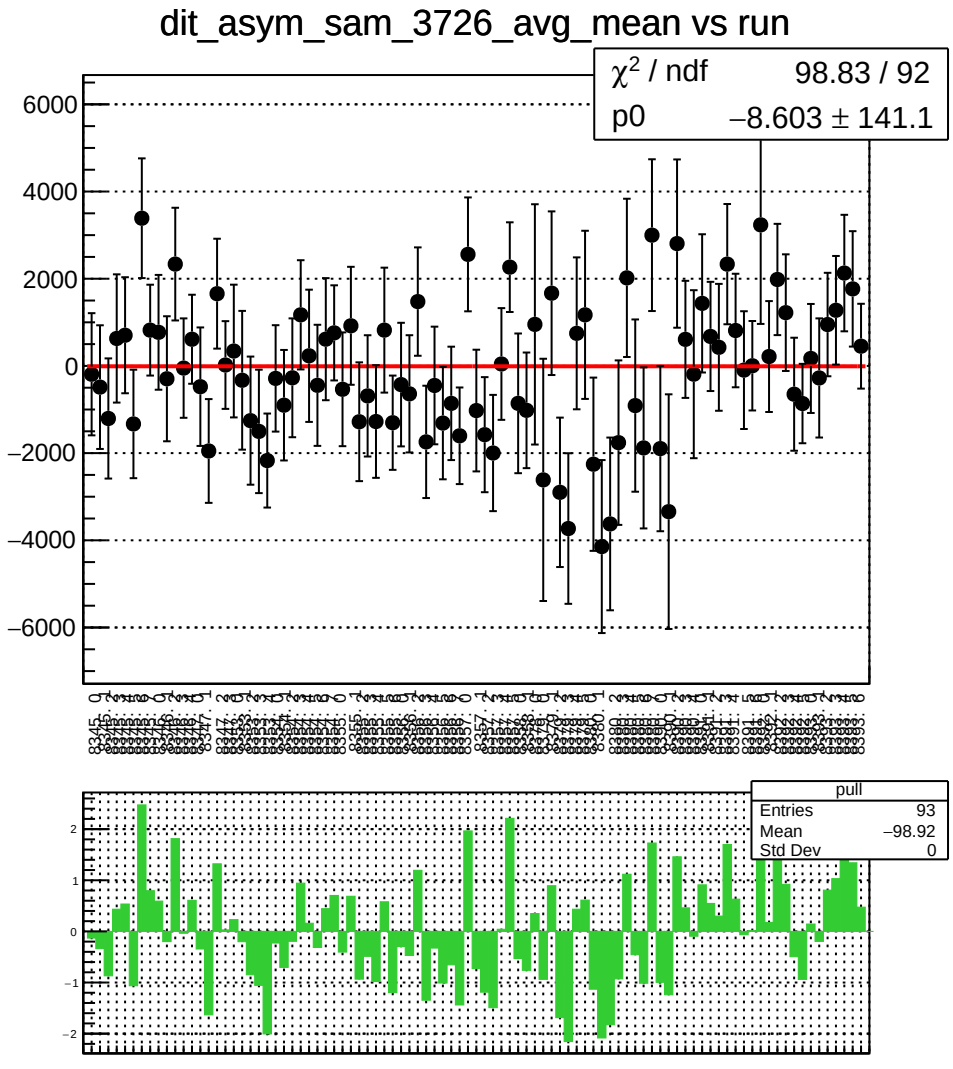

pull1D
Entries 93
Mean −0.02802
Std Dev 0.9846
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

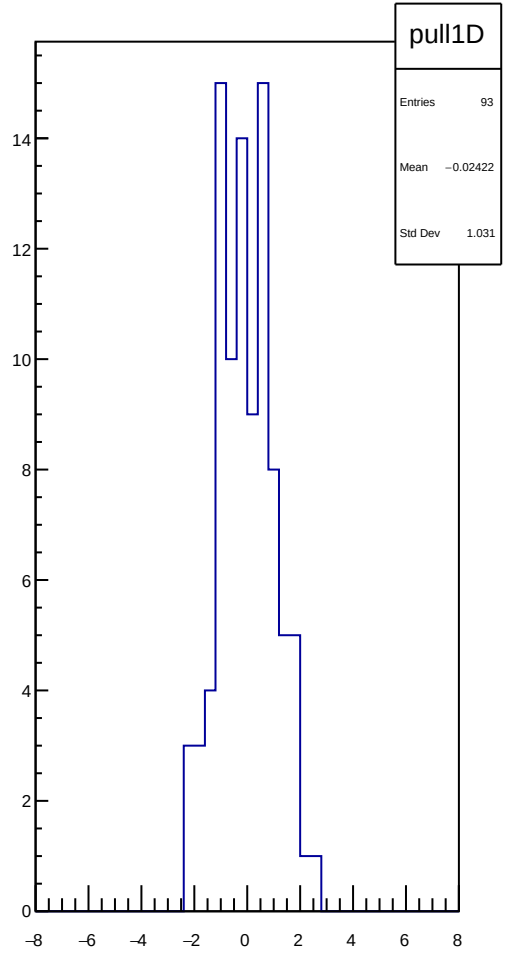

eigen_cor_asym_sam_3726_avg_rms vs run
χ² / ndf 4.165e+04 / 92
p0 125.4 ± 0.09404
240
220
200
180
160
140
120
100

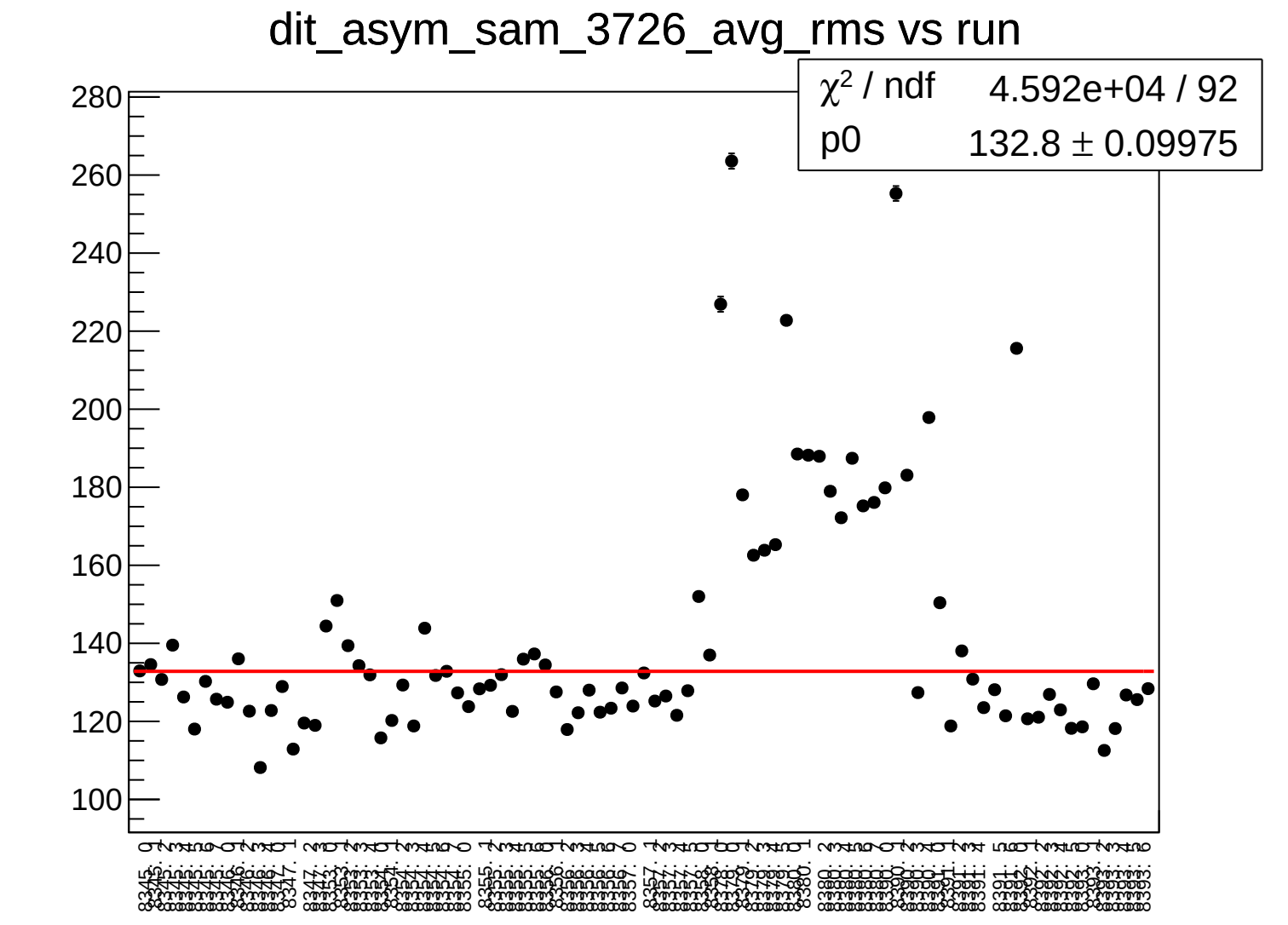

asym_sam_3726_avg_eigen_cor_correction_mean vs run
χ² / ndf 115 / 92
p0 −5301 ± 1614
pull
Entries 93
Mean −586.5
Std Dev 0

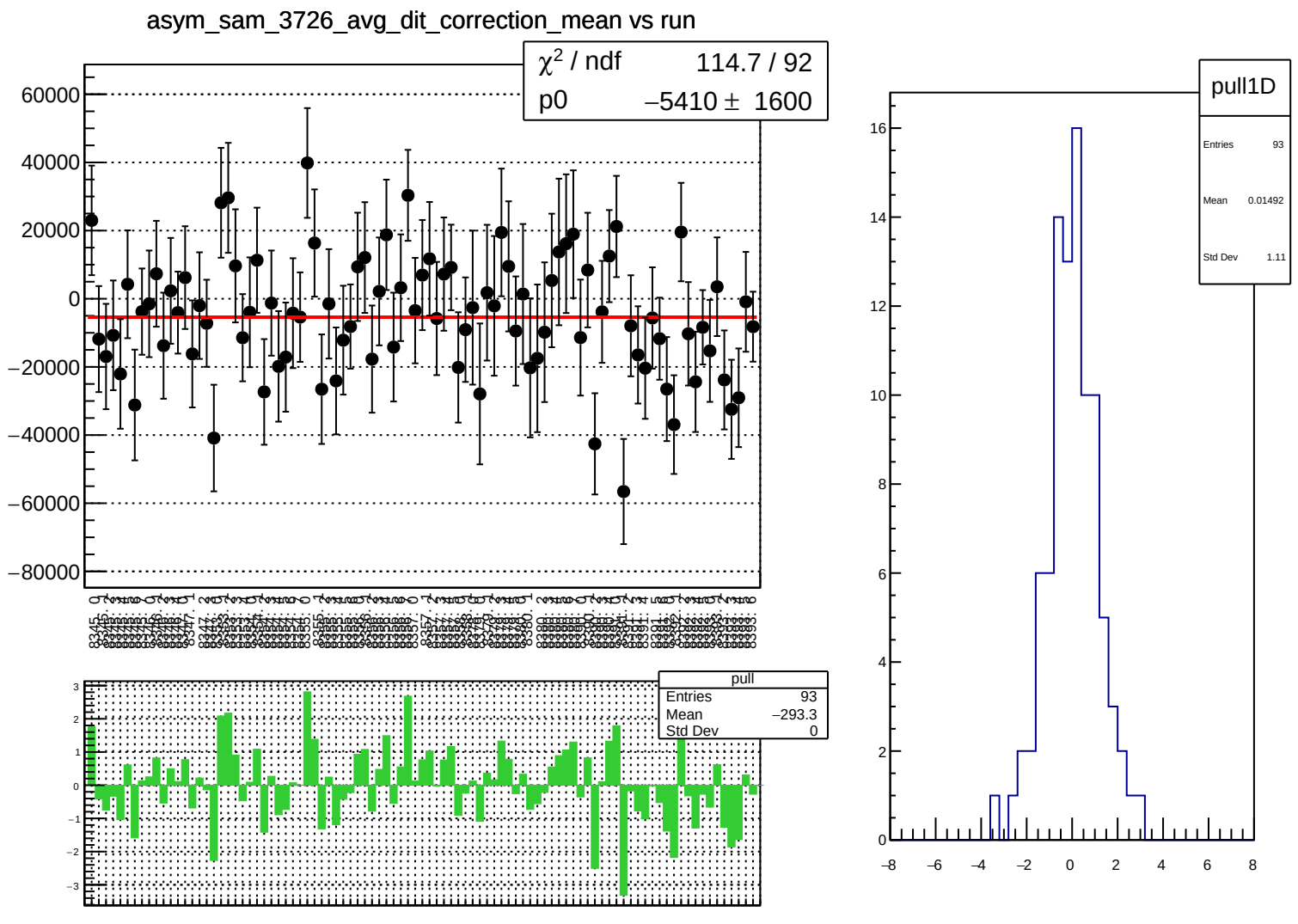

pull1D
Entries 93
Mean 0.00814
Std Dev 1.112

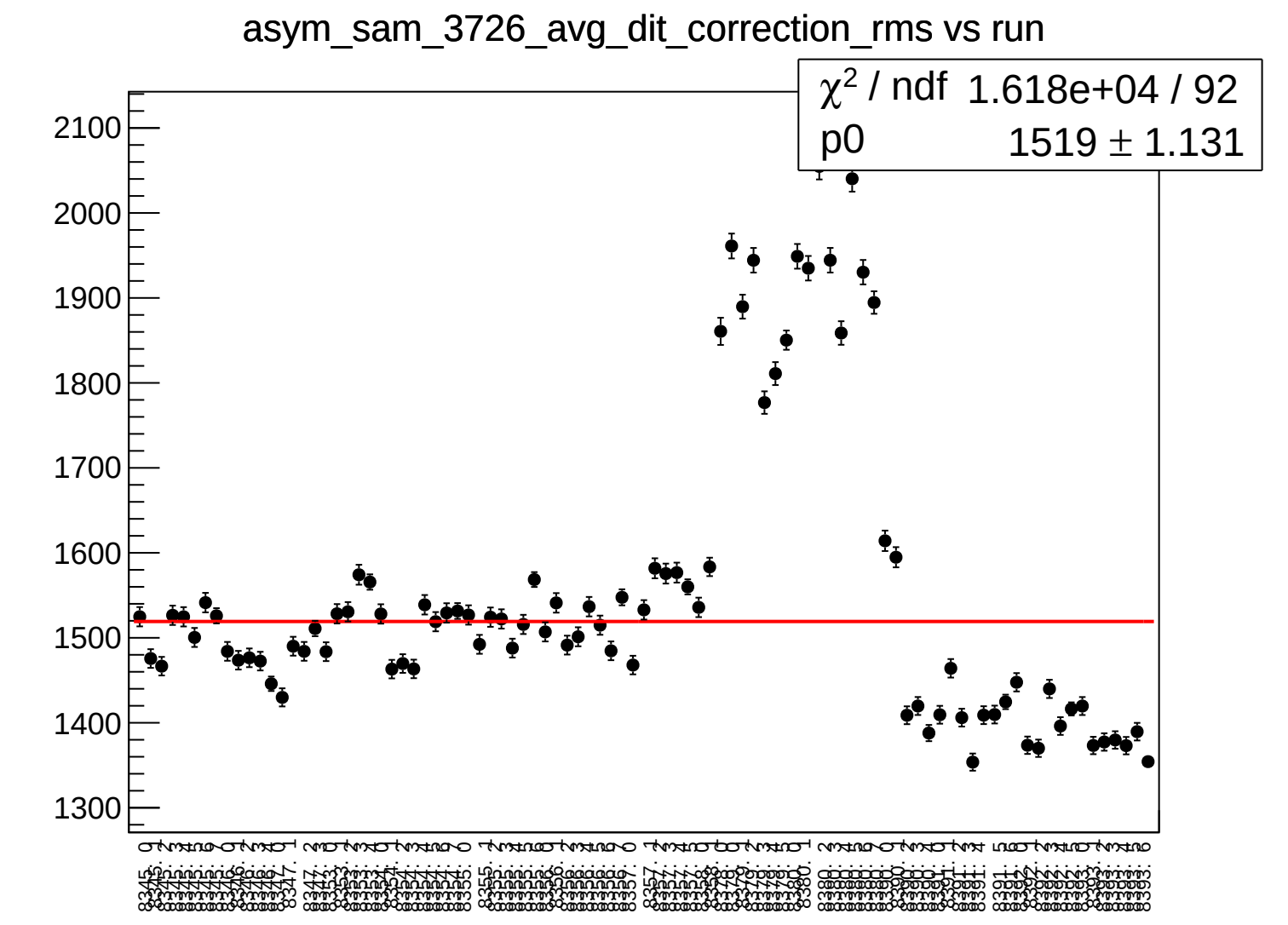

asym_sam_3726_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.546e+04 / 92
p0 1533 ± 1.141
2100
2000
1900
1800
1700
1600
1500
1400
1300

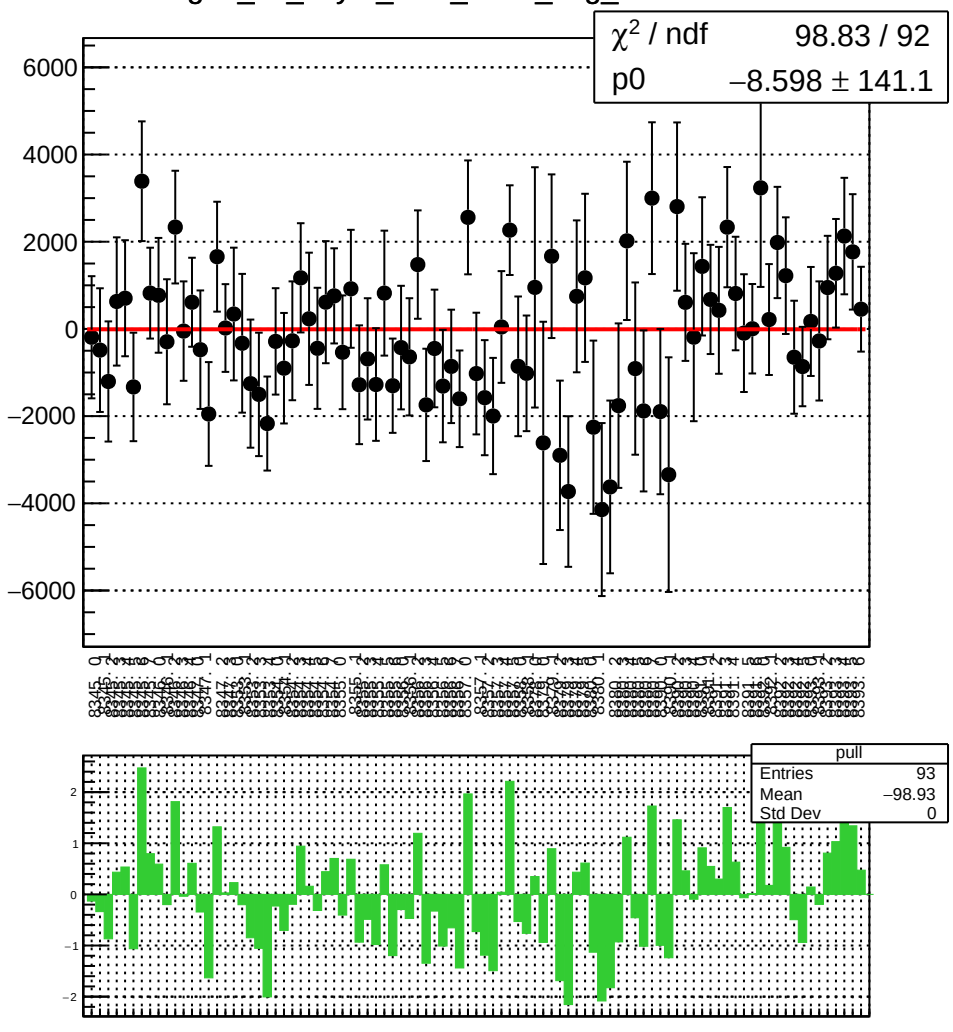

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 98.83 / 92
p0 −8.603 ± 141.1
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean −98.92
Std Dev 0
2
1
0
−1
−2

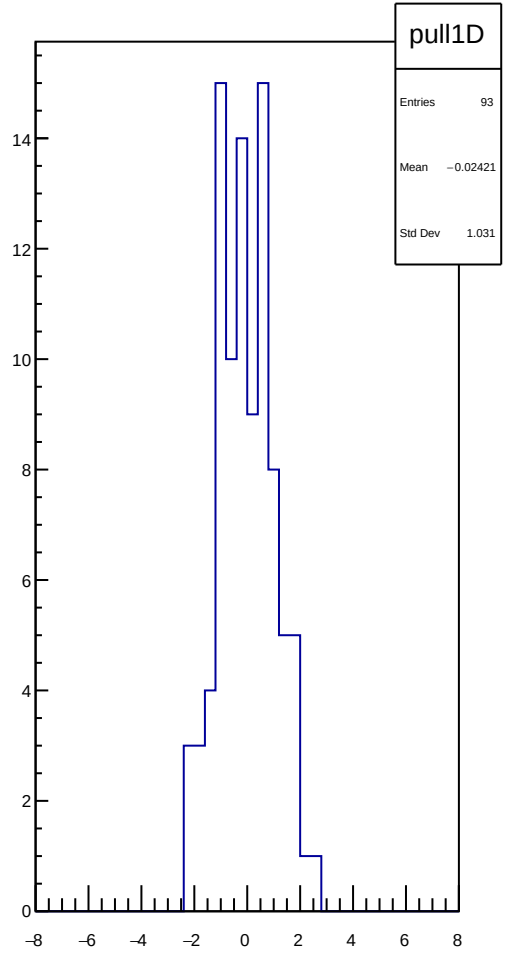

pull1D
Entries 93
Mean −0.02422
Std Dev 1.031
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

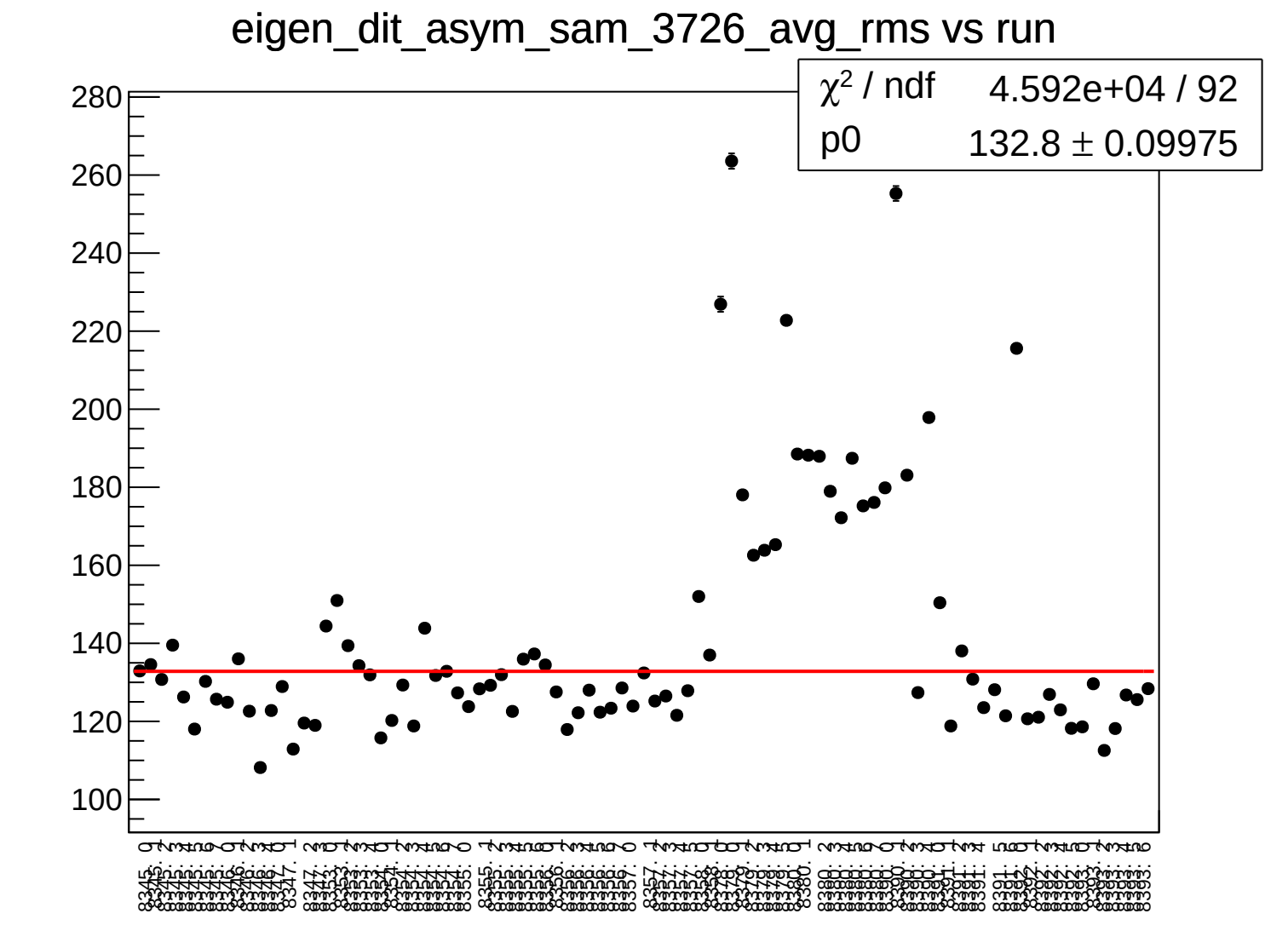

dit_asym_sam_3726_avg_rms vs run
χ^2 / ndf 4.592e+04 / 92
p0 132.8 ± 0.09975
280
260
240
220
200
180
160
140
120
100

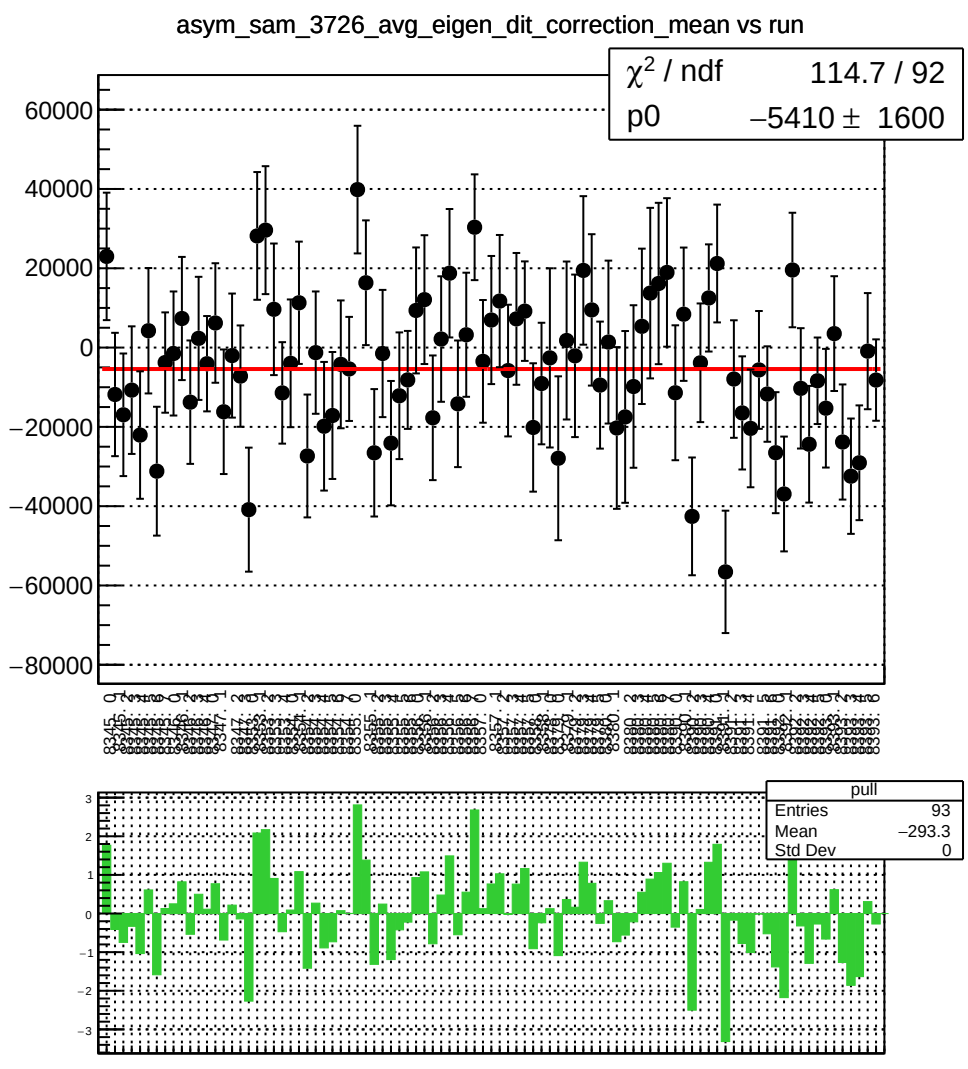

asym_sam_3726_avg_dit_correction_mean vs run
χ² / ndf 114.7 / 92
p0 −5410 ± 1600
pull
Entries 93
Mean −293.3
Std Dev 0
pull1D
Entries 93
Mean 0.01492
Std Dev 1.11

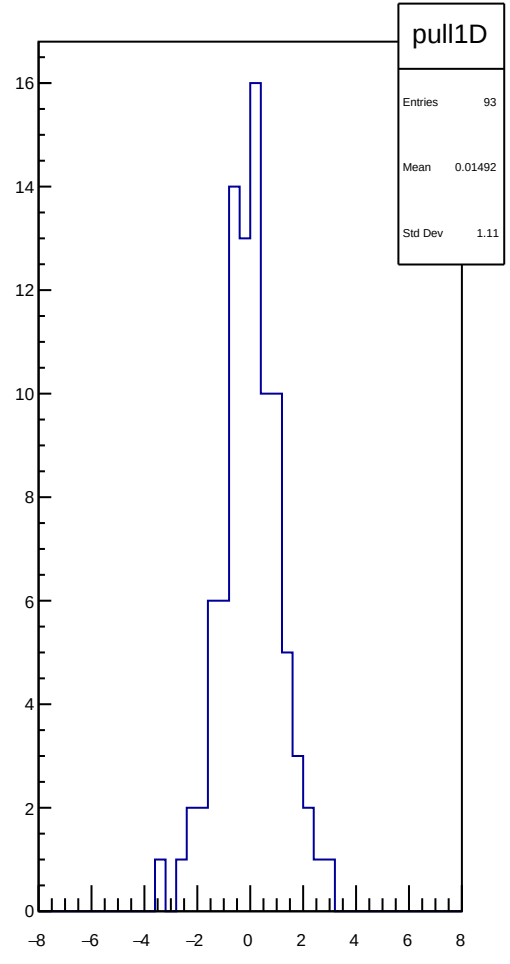

asym_sam_3726_avg_dit_correction_rms vs run
χ² / ndf 1.618e+04 / 92
p0 1519 ± 1.131
2100
2000
1900
1800
1700
1600
1500
1400
1300

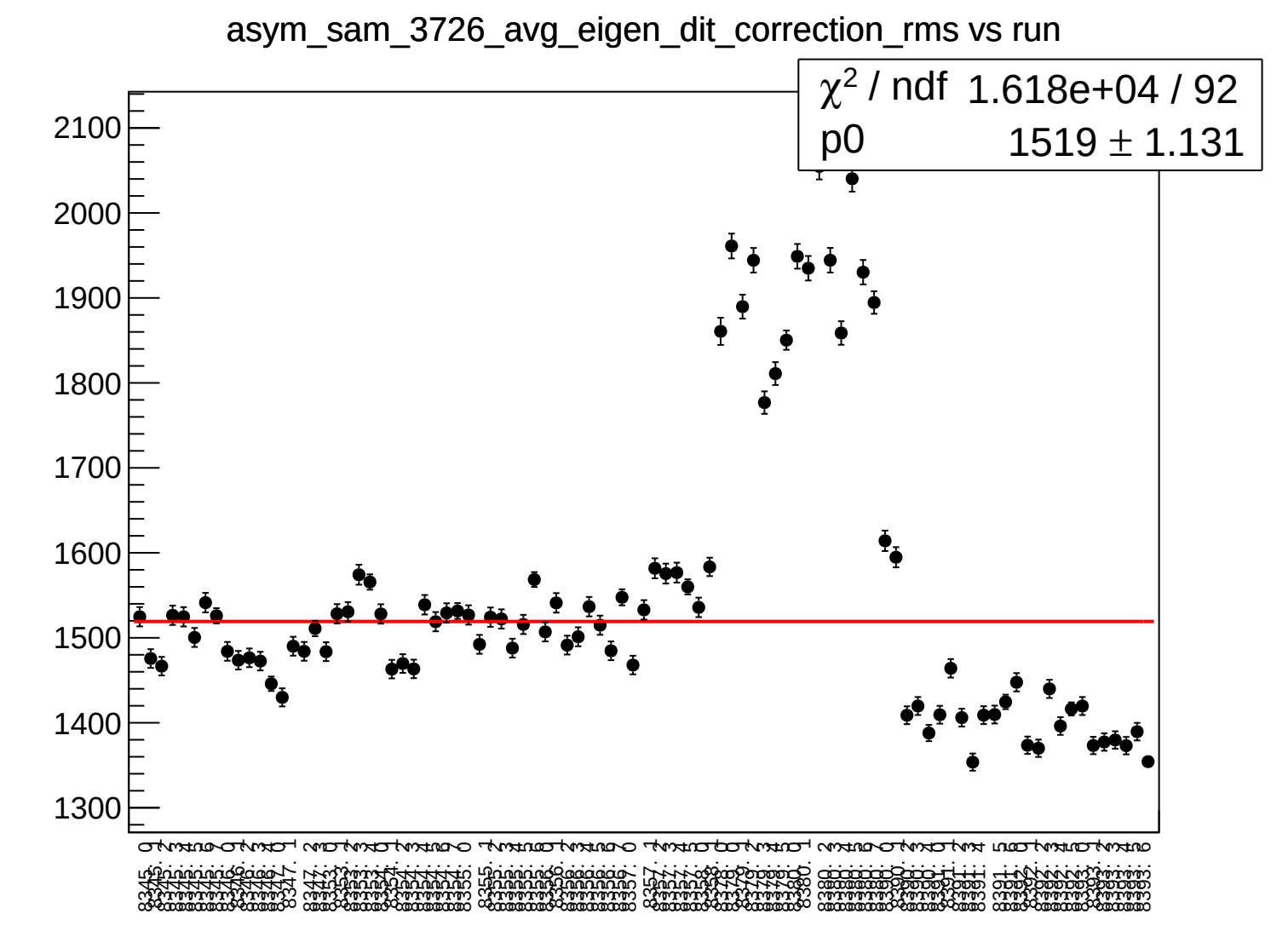

eigen_dit_asym_sam_3726_avg_mean vs run
χ² / ndf 98.83 / 92
p0 −8.598 ± 141.1
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean −98.93
Std Dev 0
2
1
0
−1
−2

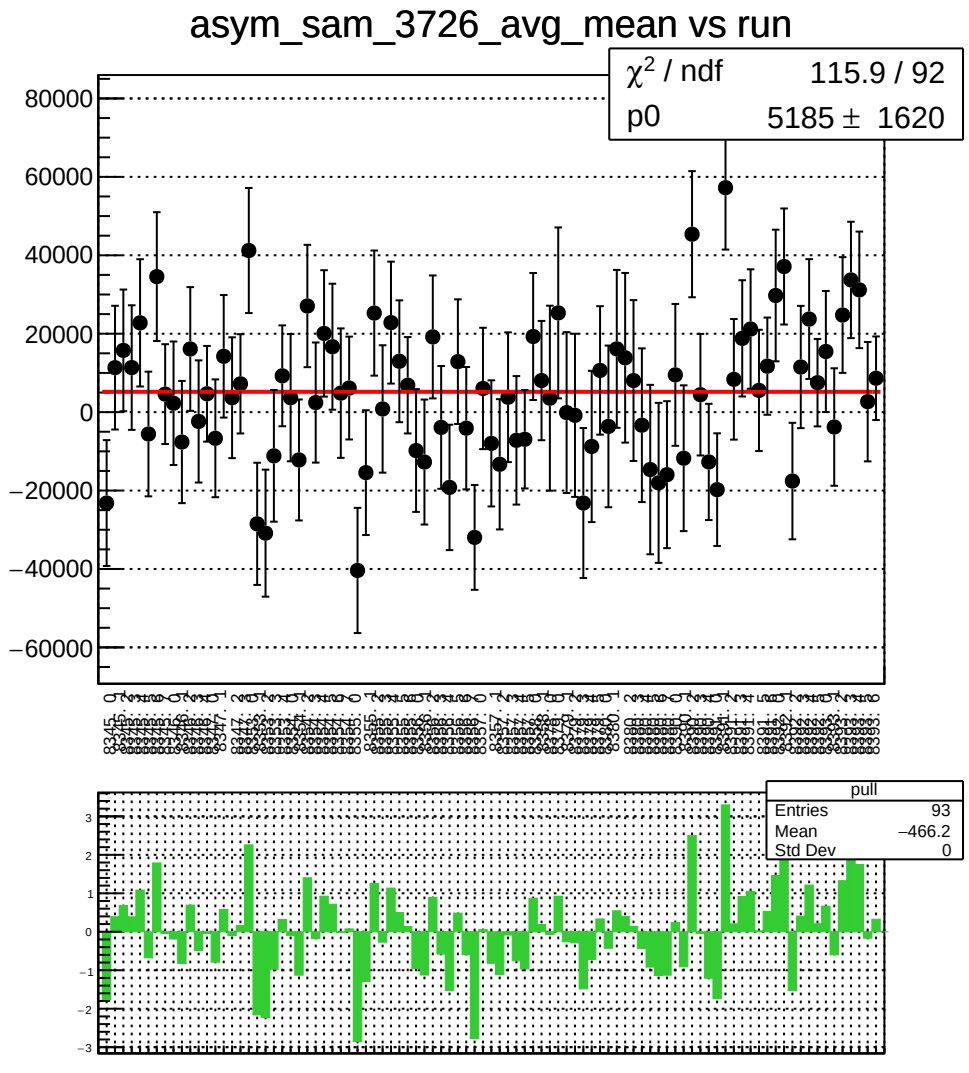

pull1D
Entries 93
Mean −0.02421
Std Dev 1.031
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

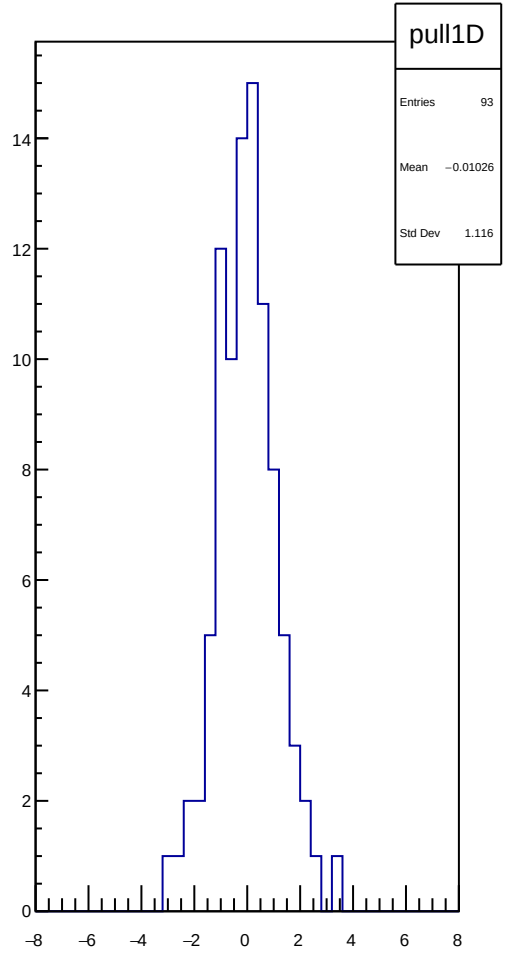

eigen_dit_asym_sam_3726_avg_rms vs run
χ^2 / ndf 4.592e+04 / 92
p0 132.8 ± 0.09975
280
260
240
220
200
180
160
140
120
100

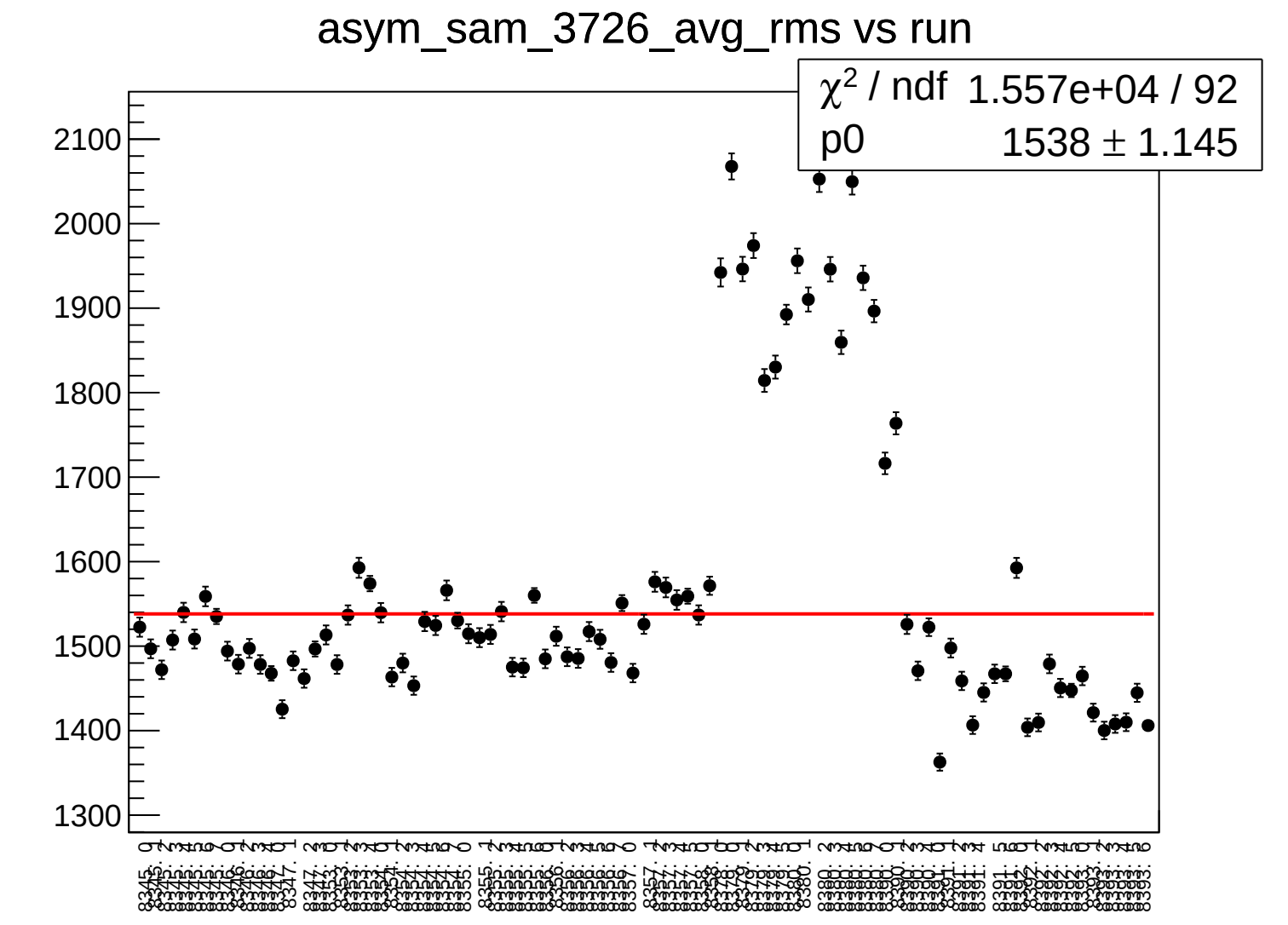

asym_sam_3726_avg_eigen_dit_correction_mean vs run
χ² / ndf 114.7 / 92
p0 −5410 ± 1600
pull
Entries 93
Mean −293.3
Std Dev 0

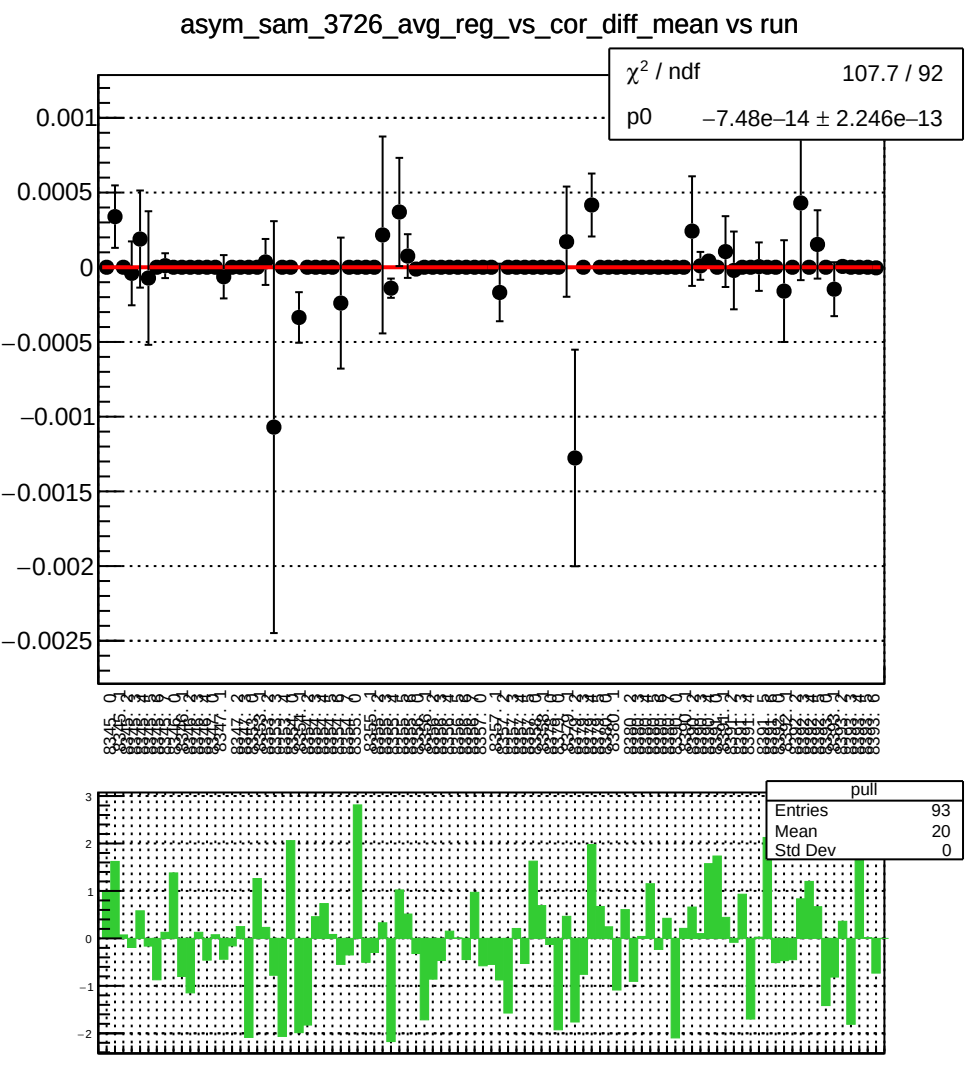

pull1D
Entries 93
Mean 0.01492
Std Dev 1.11

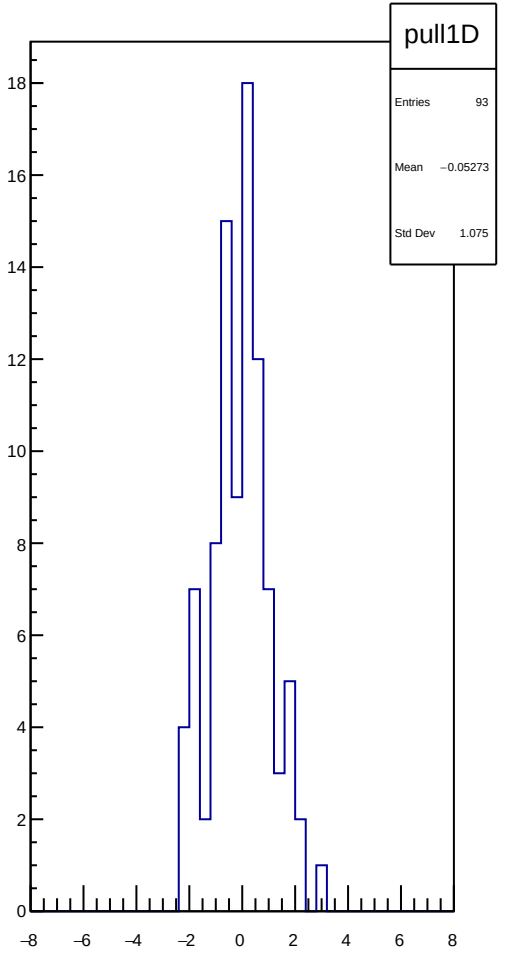

asym_sam_3726_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.618e+04 / 92
p0 1519 ± 1.131
2100
2000
1900
1800
1700
1600
1500
1400
1300

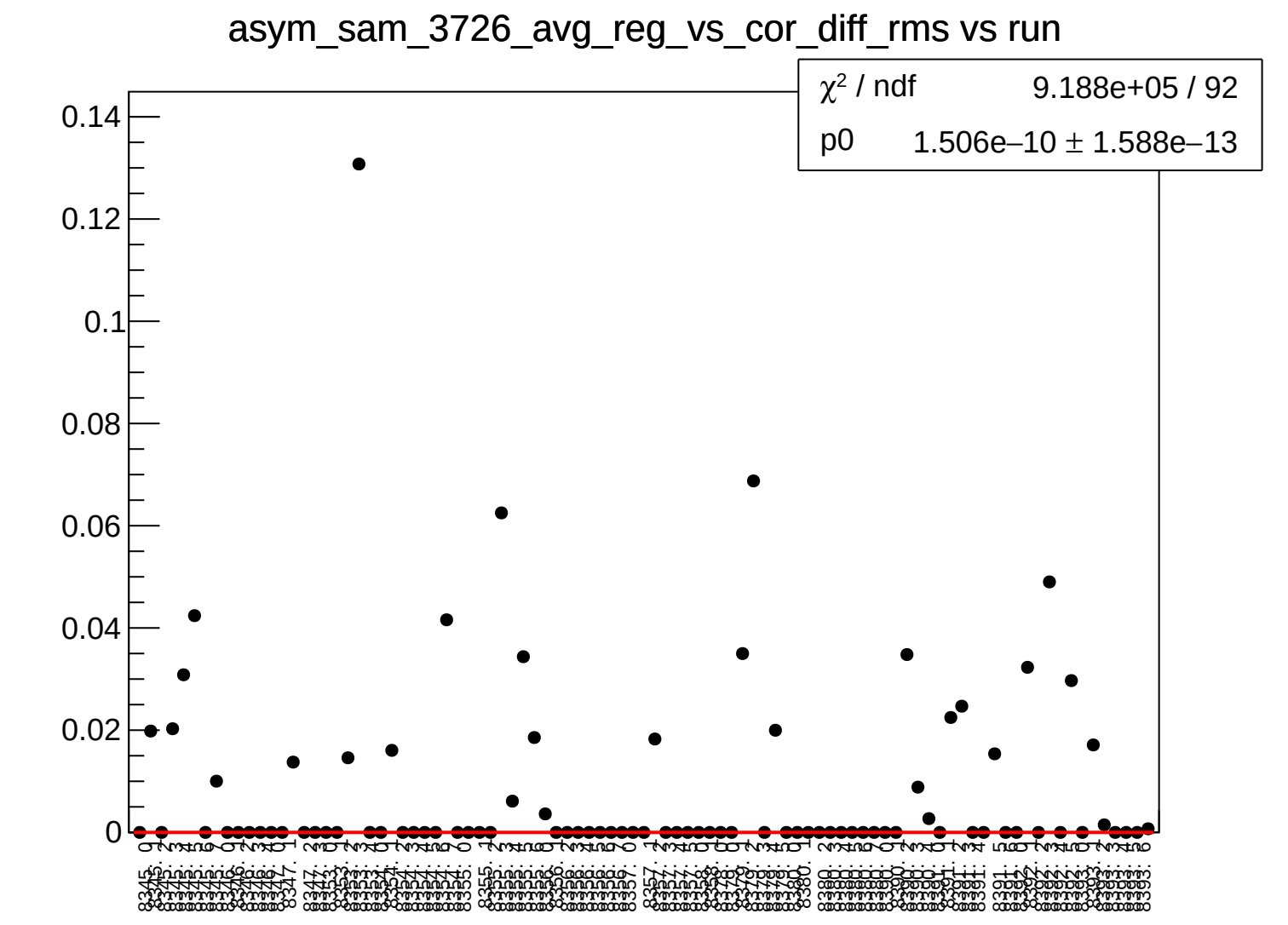

asym_sam_3726_avg_mean vs run
χ² / ndf 115.9 / 92
p0 5185 ± 1620
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −466.2
Std Dev 0
3
2
1
0
−1
−2
−3

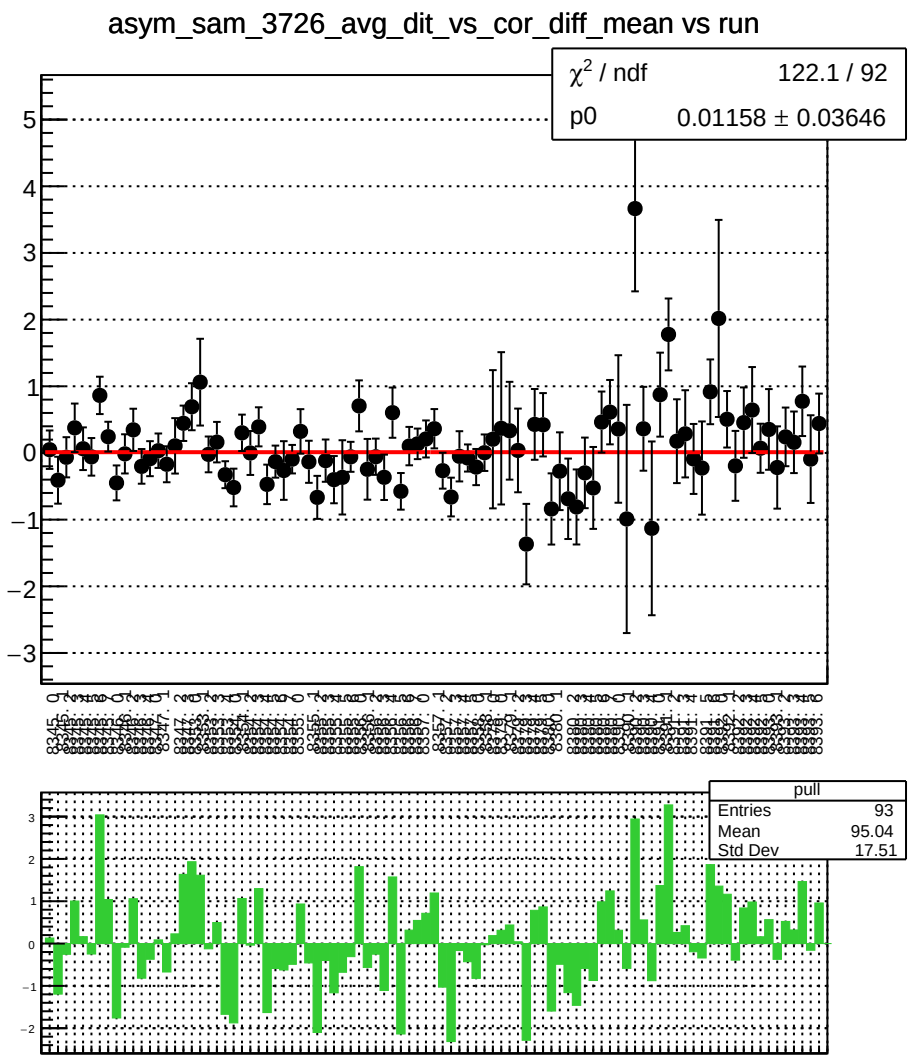

pull1D
Entries 93
Mean −0.01026
Std Dev 1.116
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

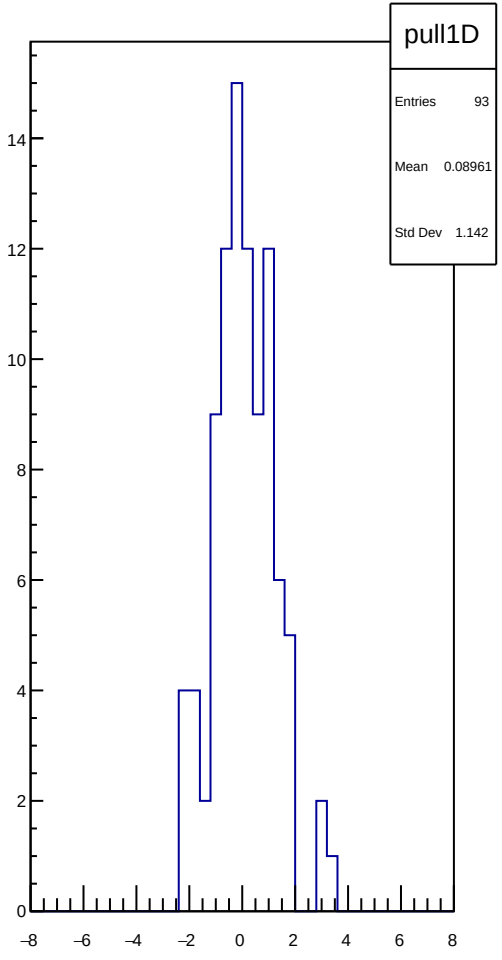

asym_sam_3726_avg_rms vs run
χ^2 / ndf 1.557e+04 / 92
p0 1538 ± 1.145
2100
2000
1900
1800
1700
1600
1500
1400
1300

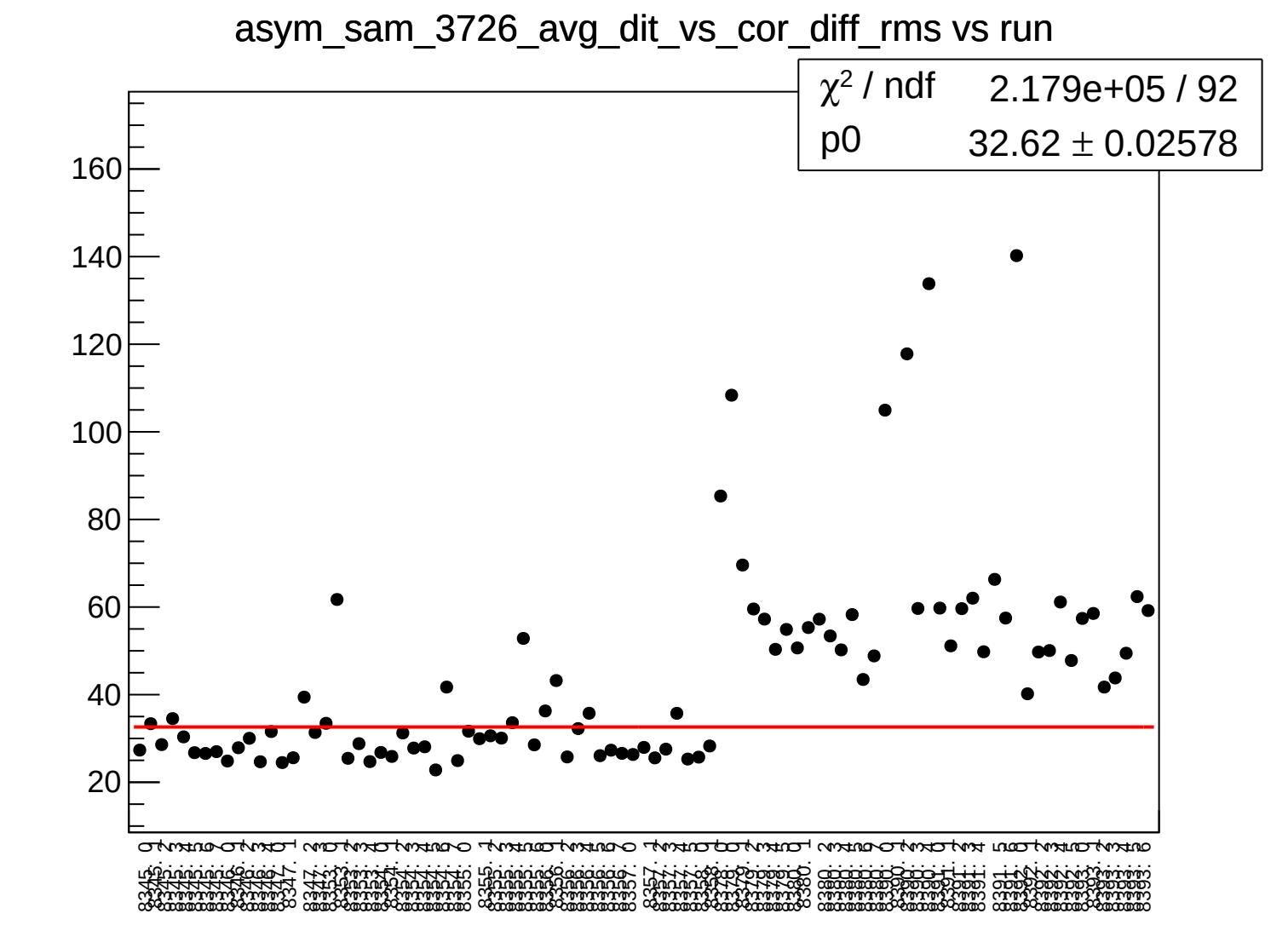

asym_sam_3726_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 107.7 / 92
p0 −7.48e−14 ± 2.246e−13
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
−0.0025
pull
Entries 93
Mean 20
Std Dev 0
3
2
1
0
−1
−2

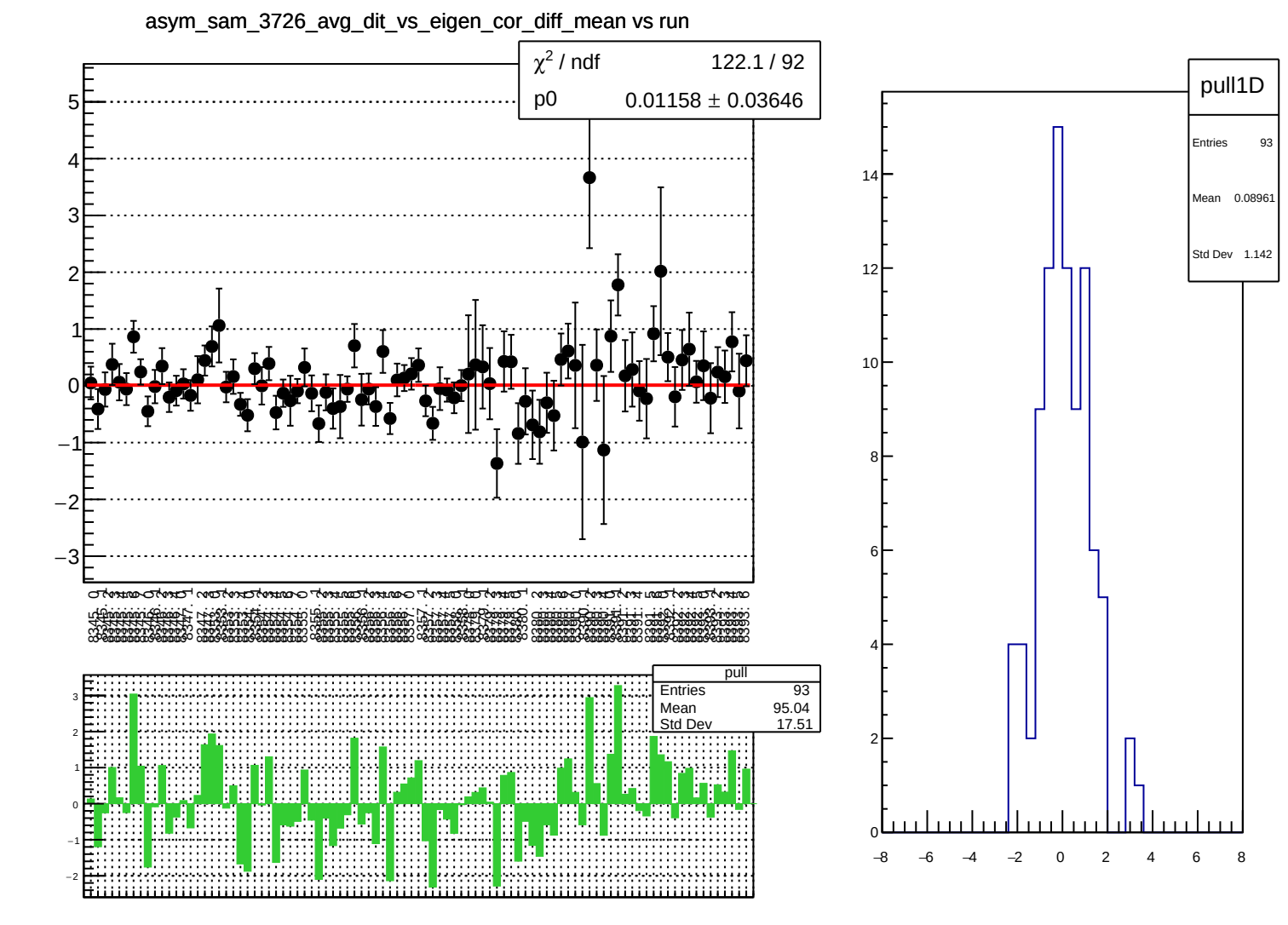

pull1D
Entries 93
Mean −0.05273
Std Dev 1.075
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

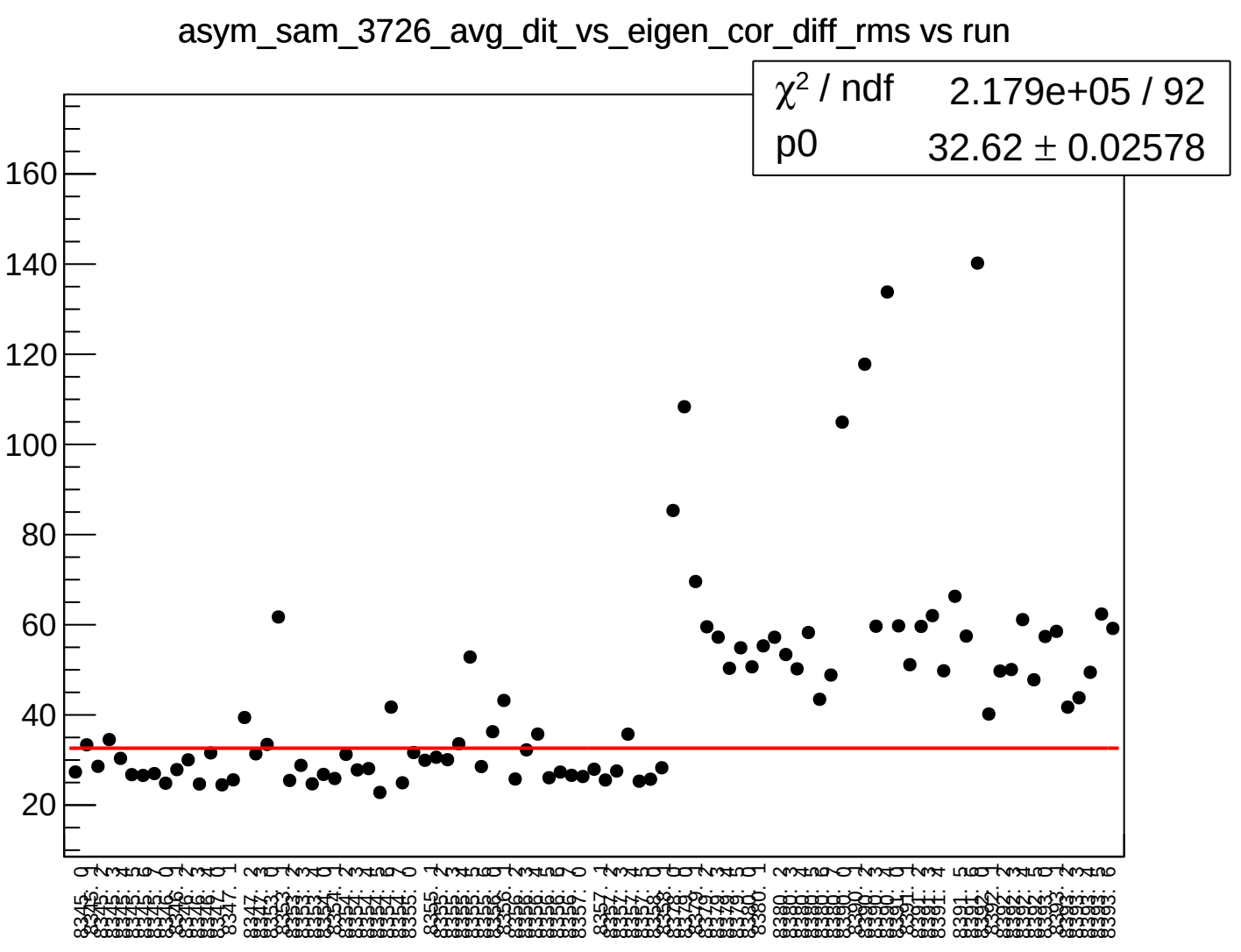

asym_sam_3726_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.188e+05 / 92
p0 1.506e−10 ± 1.588e−13
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

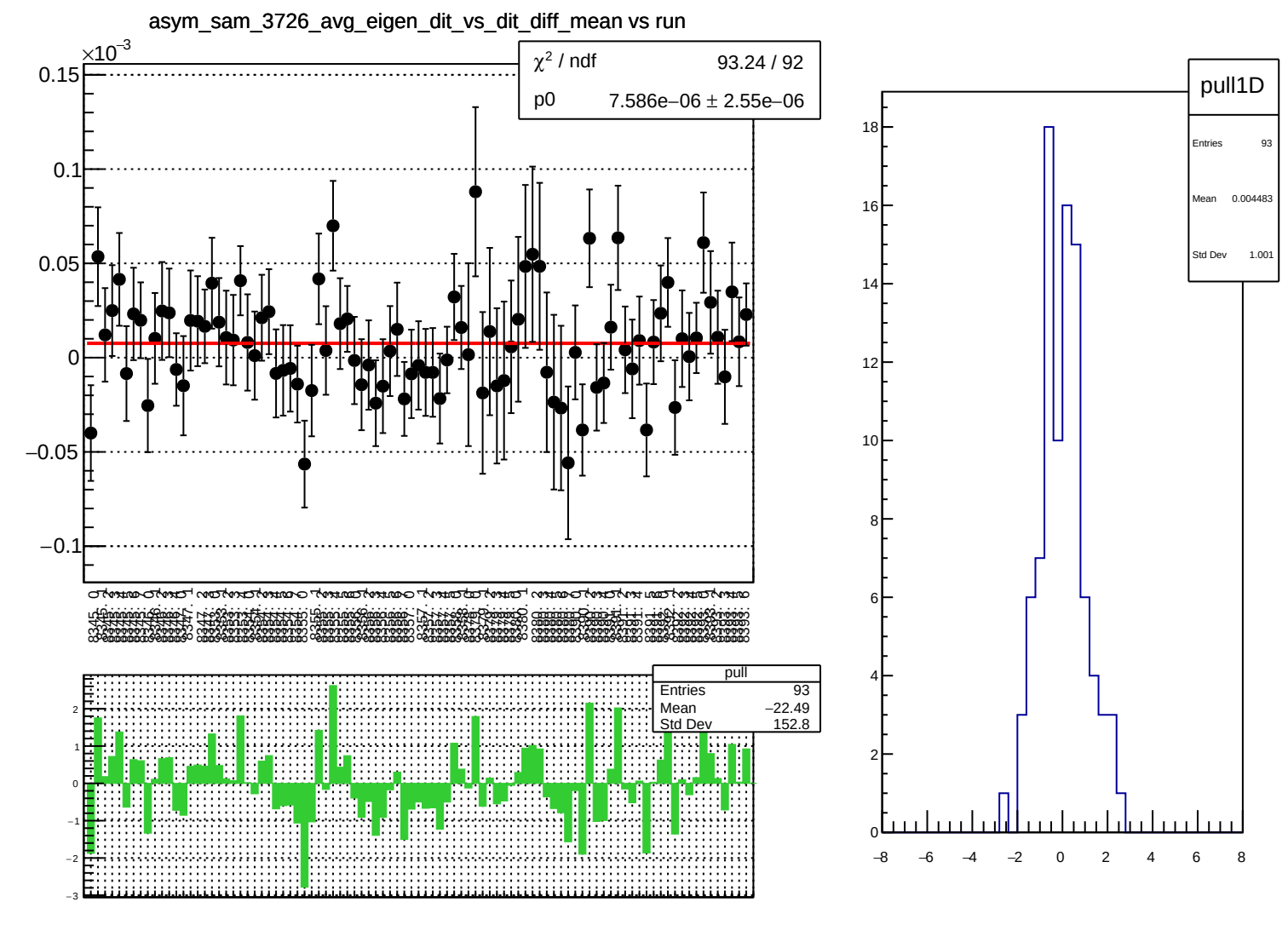

asym_sam_3726_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 122.1 / 92
p0 0.01158 ± 0.03646
pull
Entries 93
Mean 95.04
Std Dev 17.51

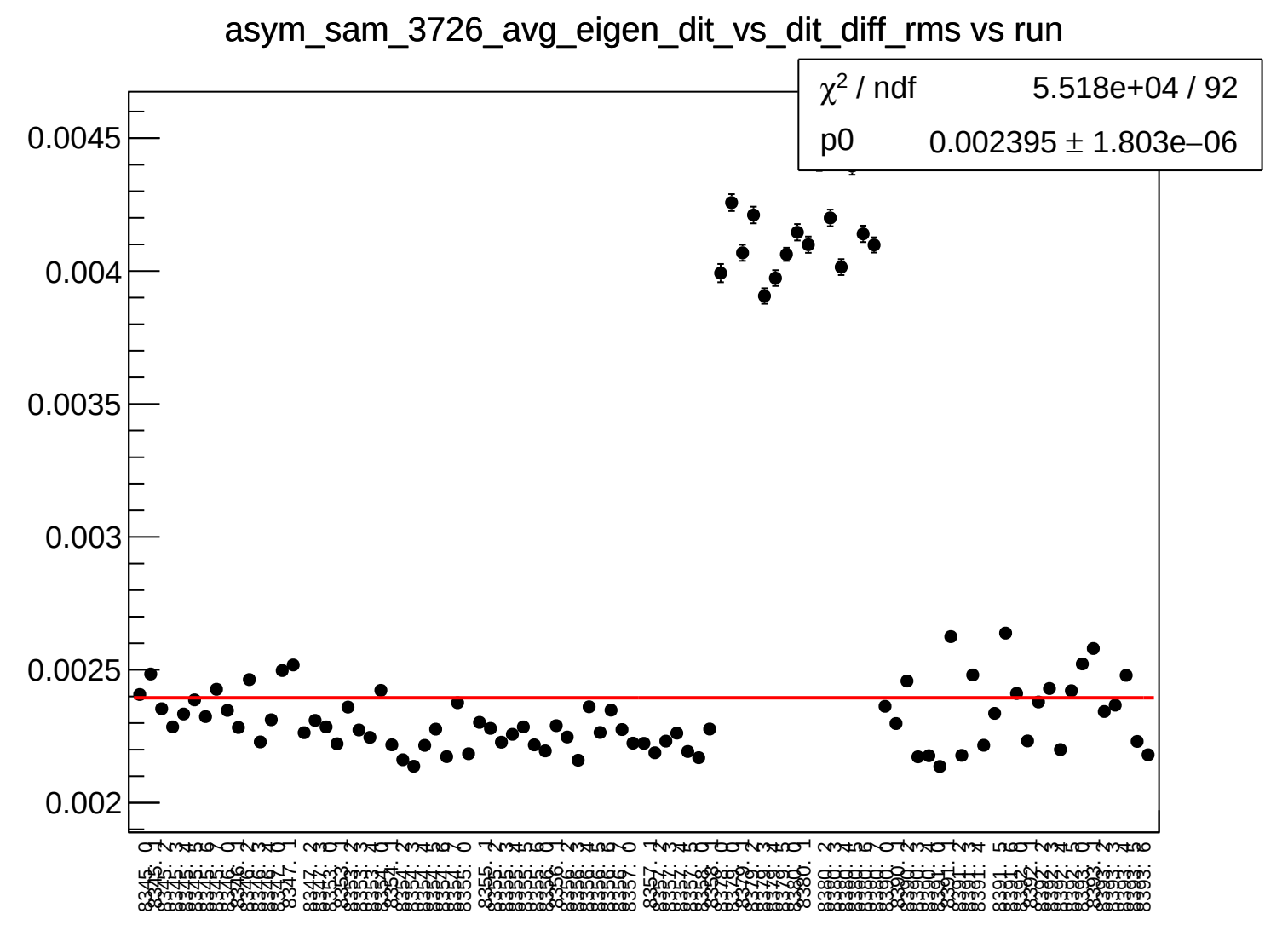

pull1D
Entries 93
Mean 0.08961
Std Dev 1.142

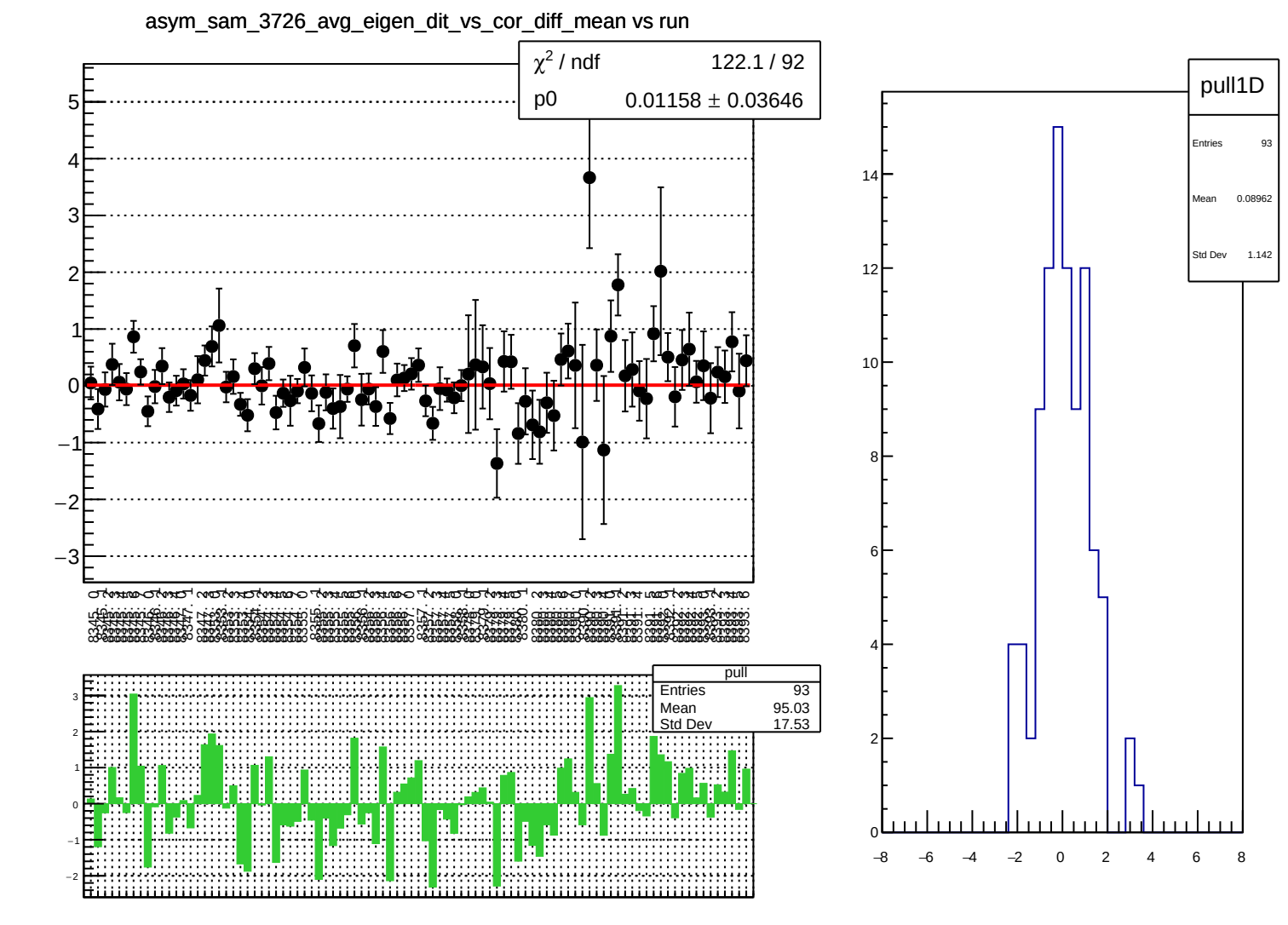

asym_sam_3726_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.179e+05 / 92
p0 32.62 ± 0.02578
160
140
120
100
80
60
40
20

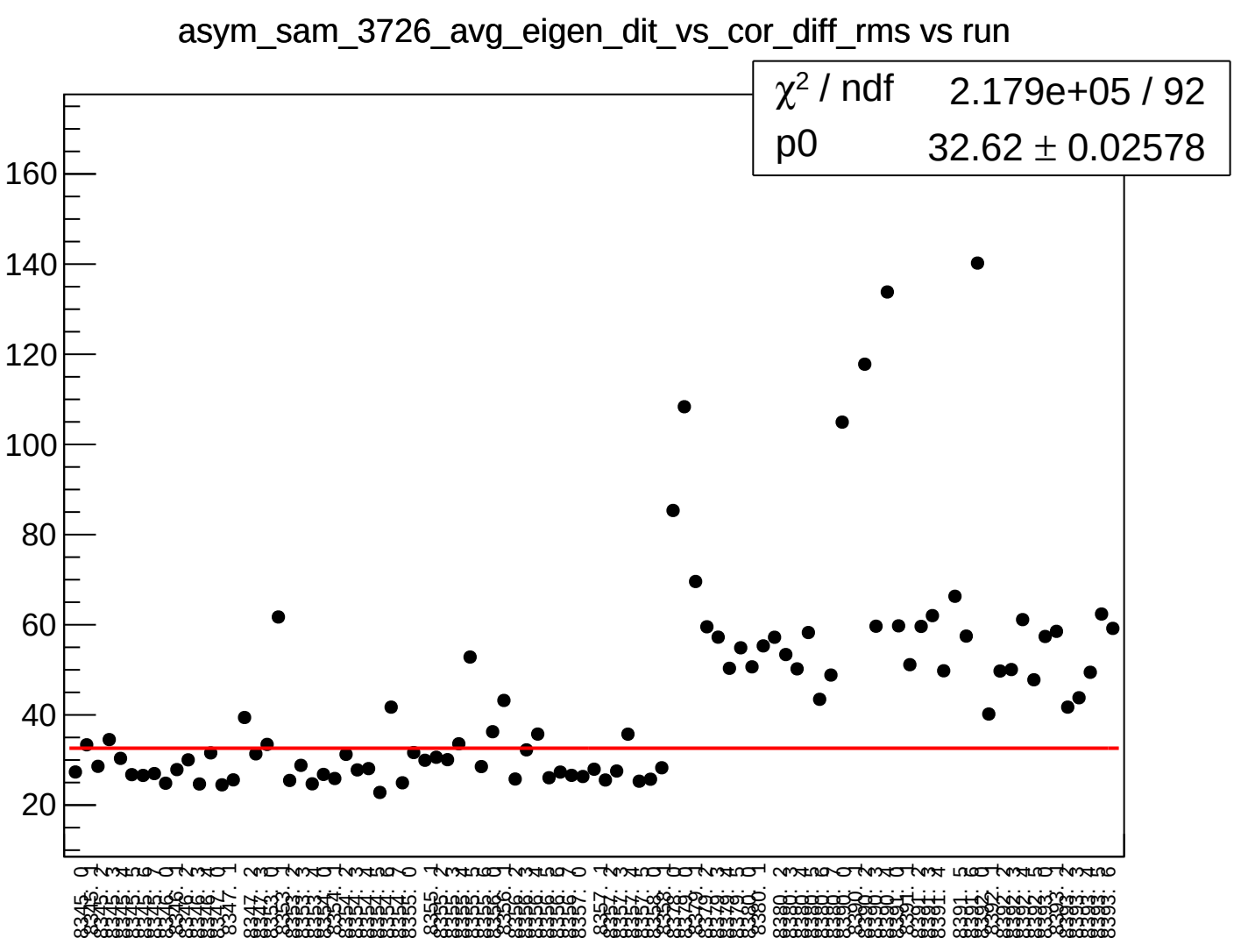

asym_sam_3726_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 122.1 / 92
p0 0.01158 ± 0.03646
pull
Entries 93
Mean 95.04
Std Dev 17.51
pull1D
Entries 93
Mean 0.08961
Std Dev 1.142

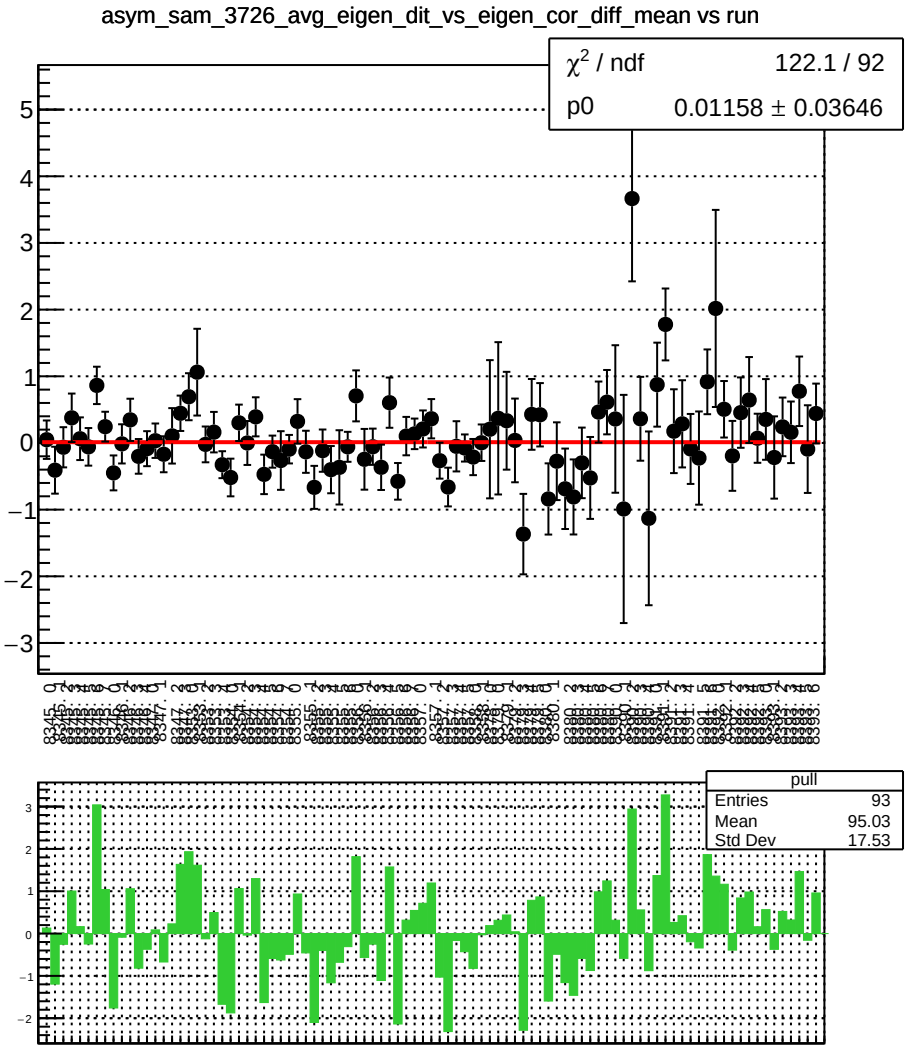

asym_sam_3726_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.179e+05 / 92
p0 32.62 ± 0.02578
160
140
120
100
80
60
40
20

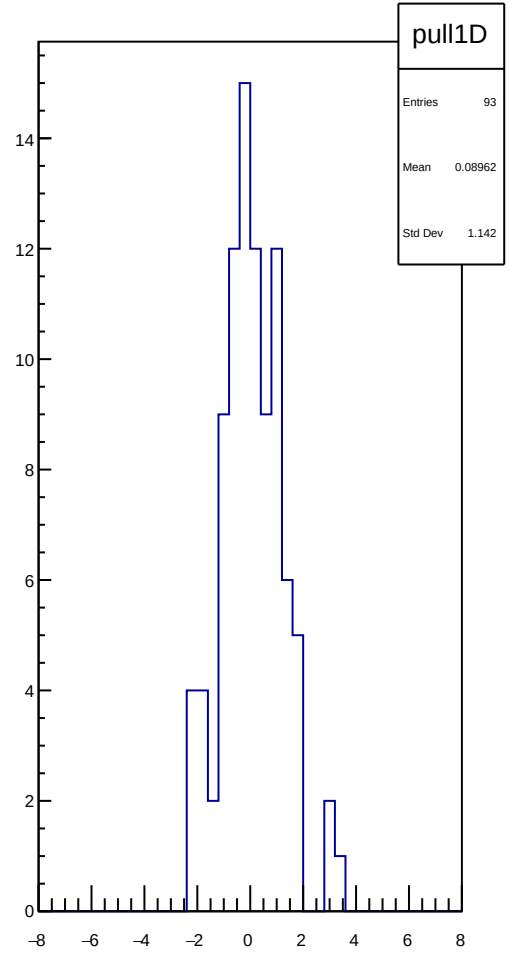

asym_sam_3726_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 93.24 / 92
p0 7.586e−06 ± 2.55e−06
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 93
Mean −22.49
Std Dev 152.8
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.004483
Std Dev 1.001
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

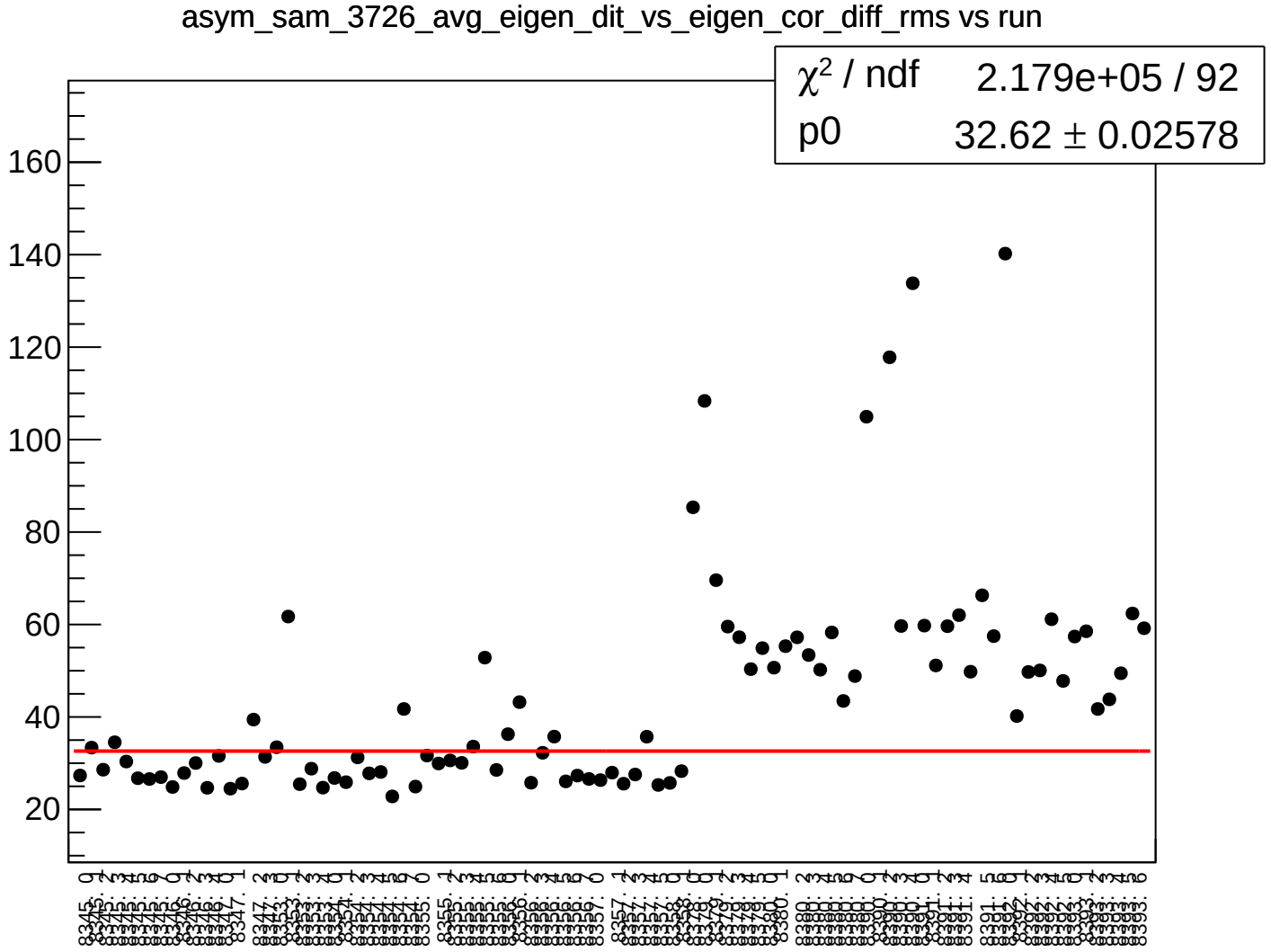

asym_sam_3726_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.518e+04 / 92
p0 0.002395 ± 1.803e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002

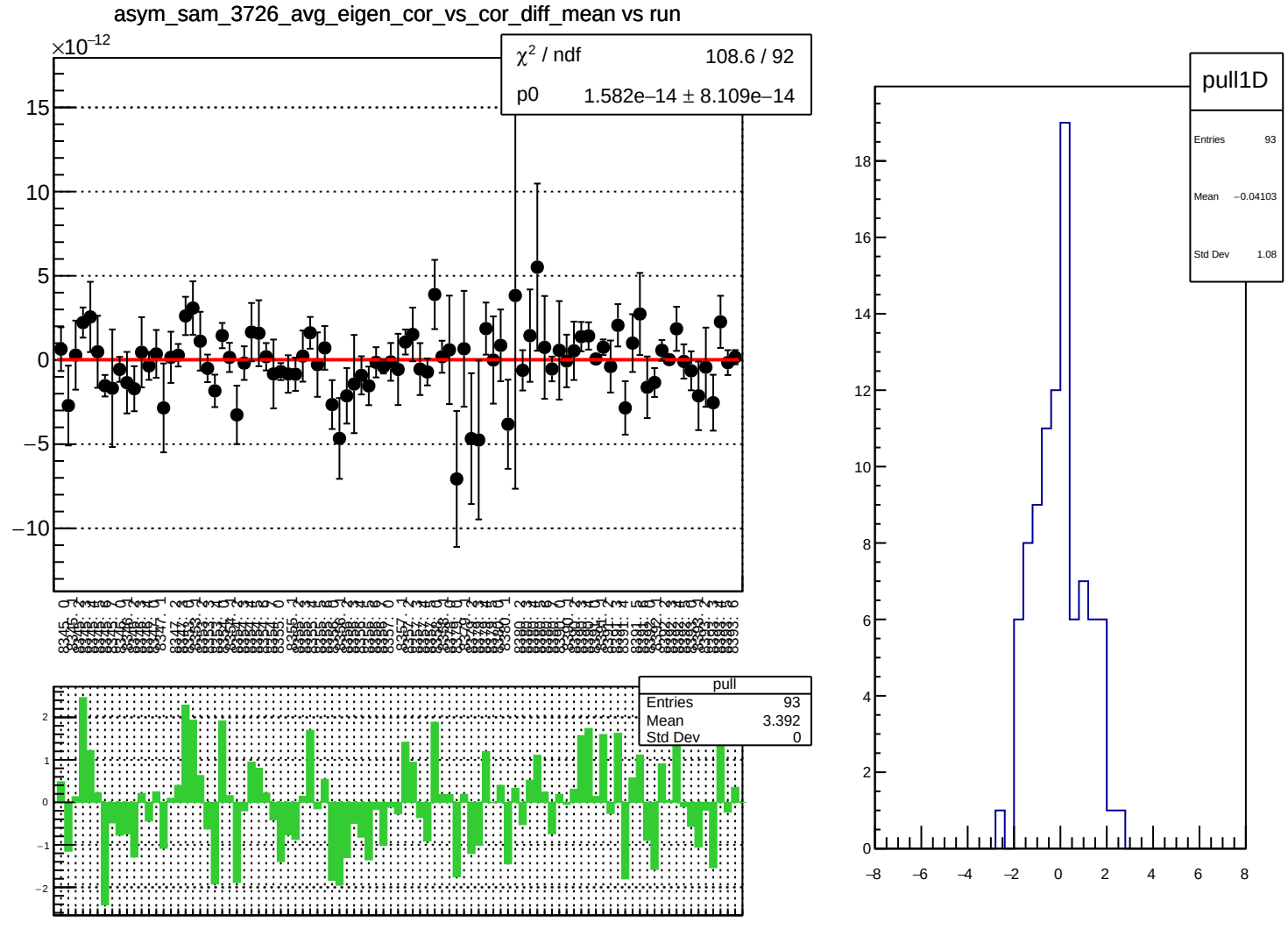

asym_sam_3726_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 122.1 / 92
p0 0.01158 ± 0.03646
pull
Entries 93
Mean 95.03
Std Dev 17.53
pull1D
Entries 93
Mean 0.08962
Std Dev 1.142

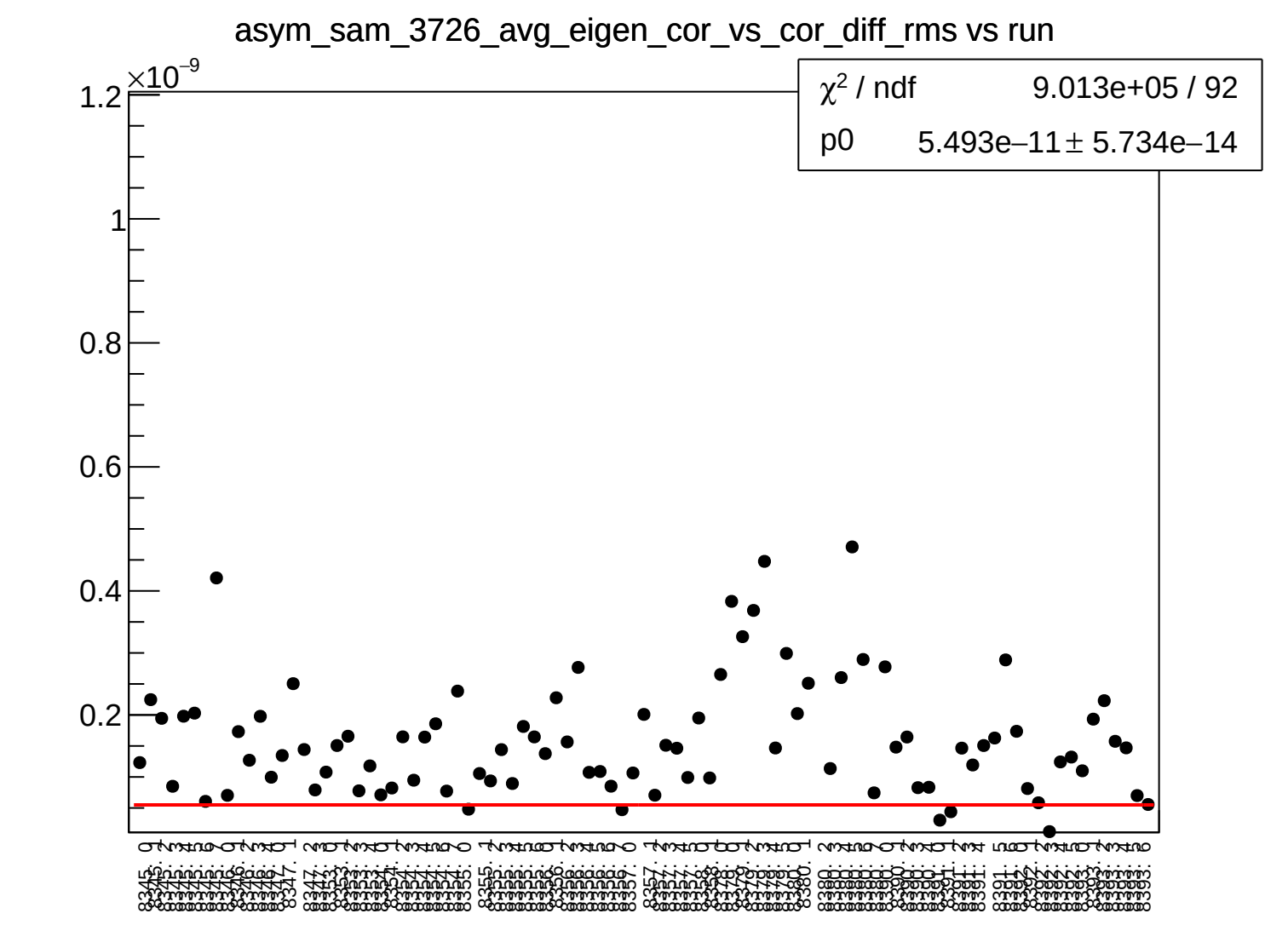

asym_sam_3726_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.179e+05 / 92
p0 32.62 ± 0.02578
160
140
120
100
80
60
40
20

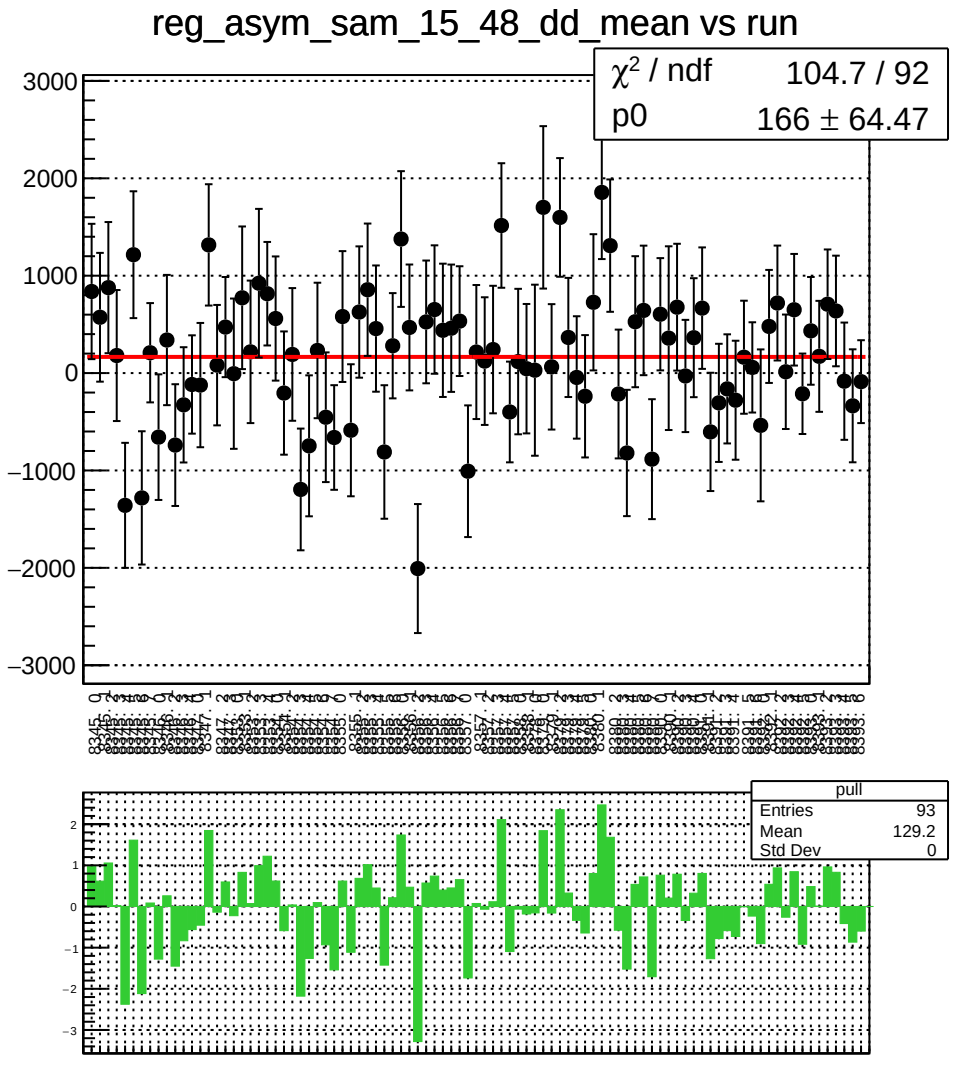

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 122.1 / 92
p0 0.01158 ± 0.03646
pull
Entries 93
Mean 95.03
Std Dev 17.53

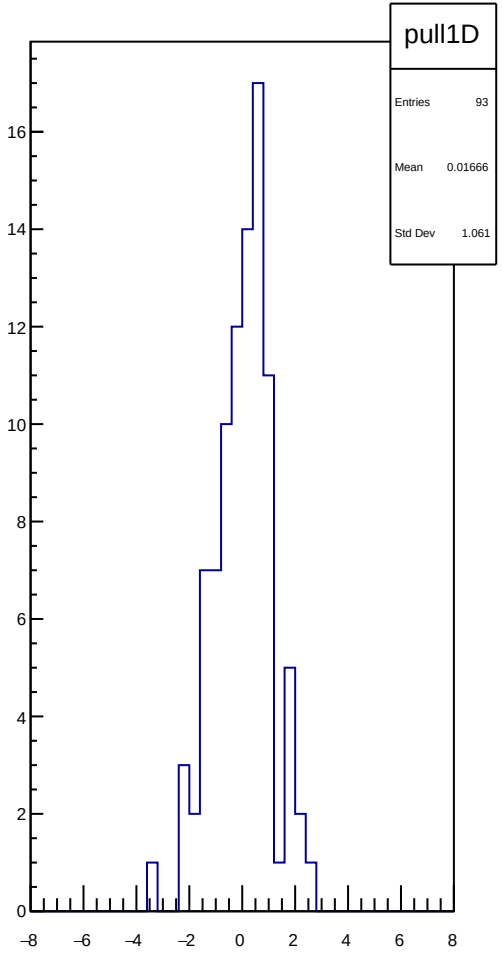

pull1D
Entries 93
Mean 0.08962
Std Dev 1.142

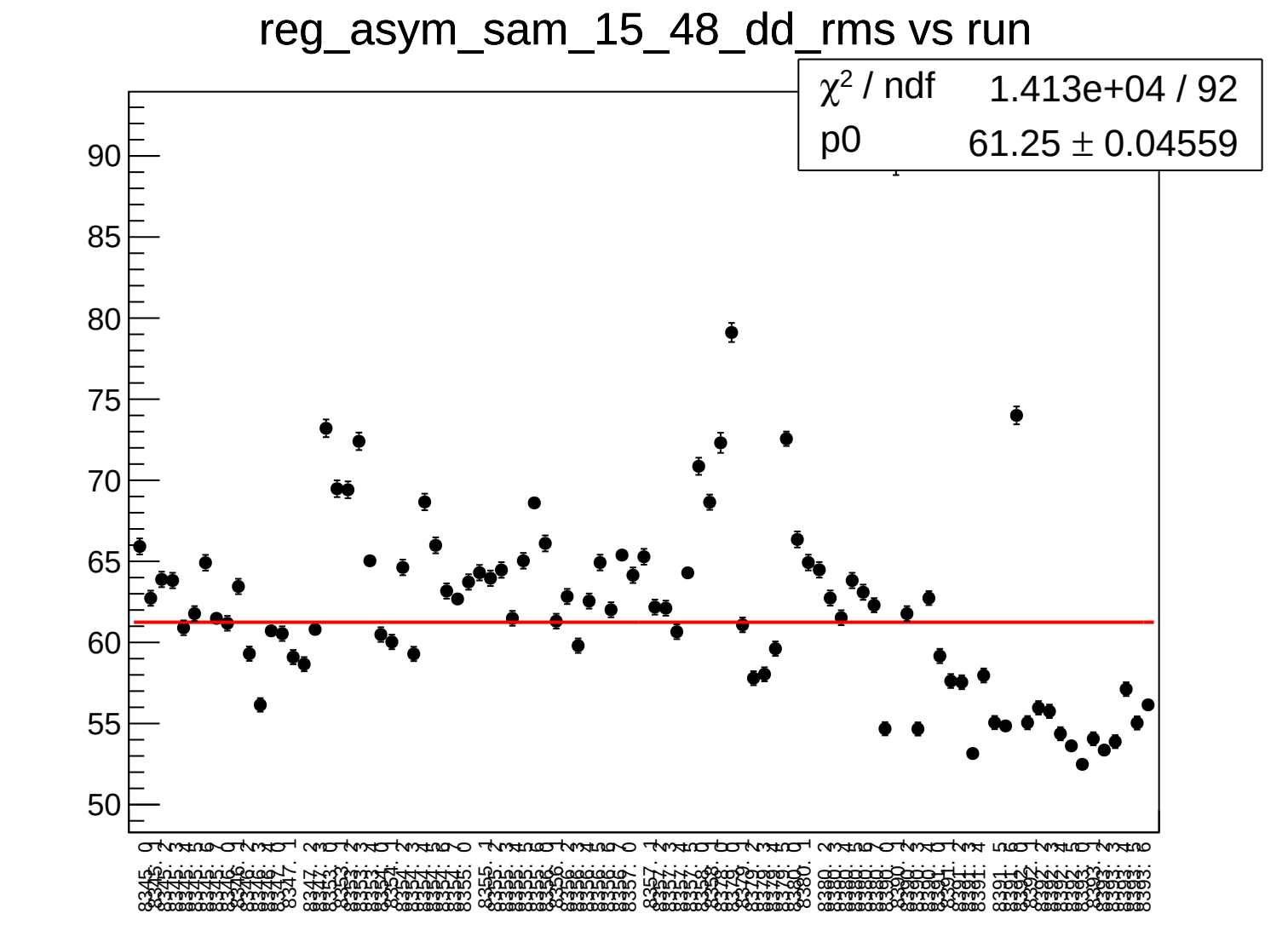

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.179e+05 / 92
p0 32.62 ± 0.02578
160
140
120
100
80
60
40
20

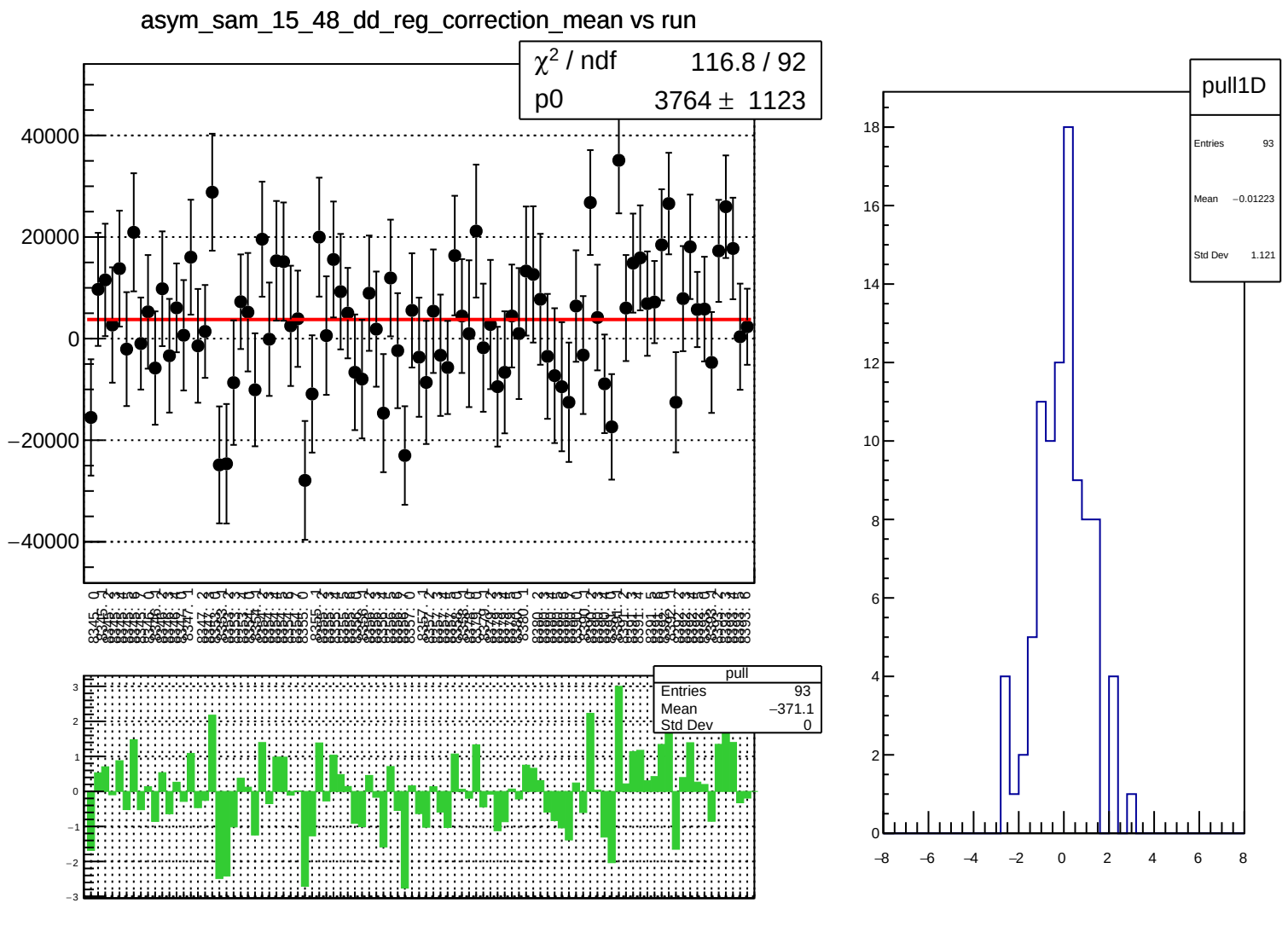

asym_sam_3726_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 108.6 / 92
p0 1.582e−14 ± 8.109e−14
15
10
5
0
−5
−10
pull
Entries 93
Mean 3.392
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.04103
Std Dev 1.08
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

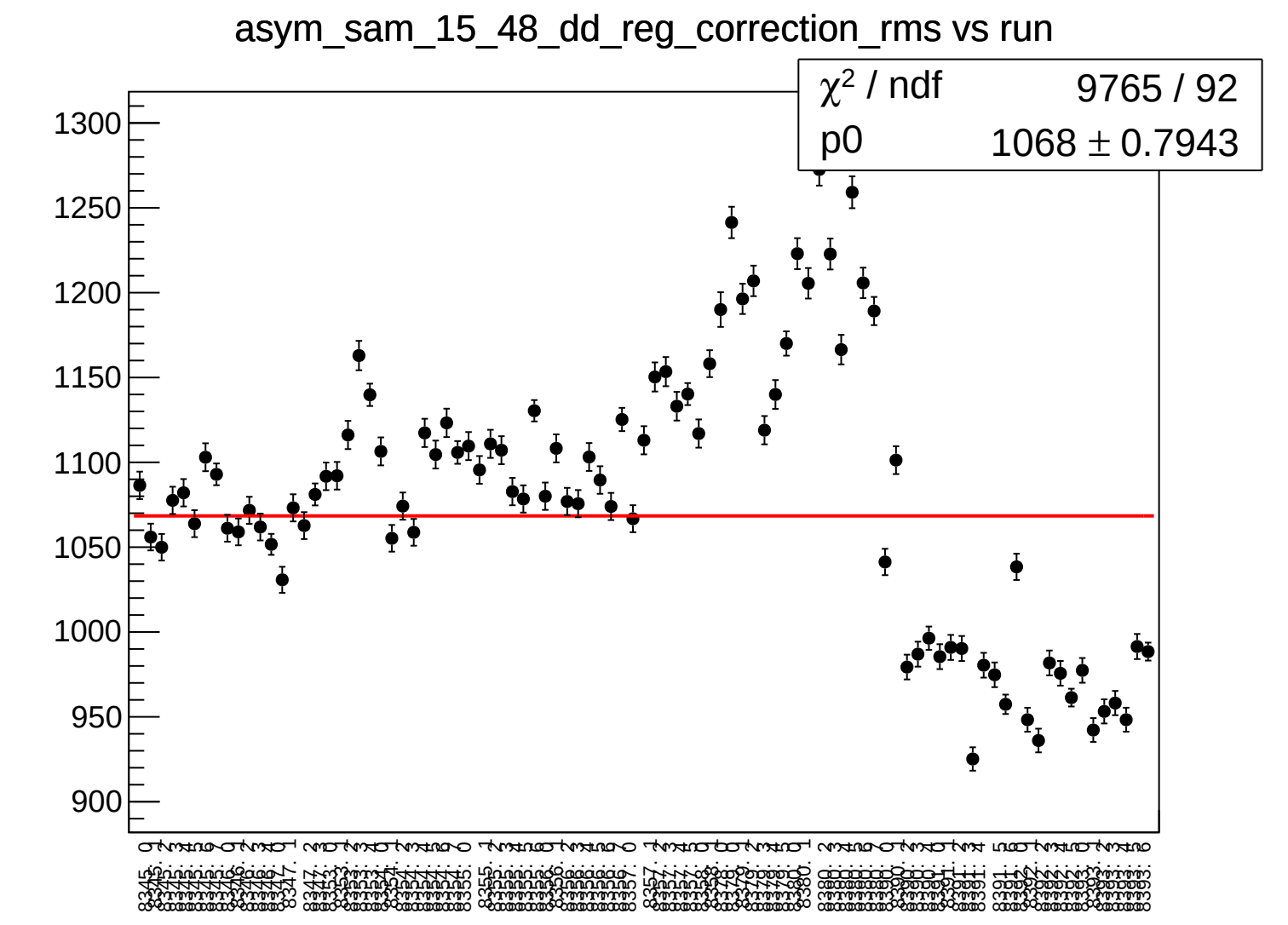

asym_sam_3726_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
1.2
1
0.8
0.6
0.4
0.2
χ² / ndf 9.013e+05 / 92
p0 5.493e−11 ± 5.734e−14

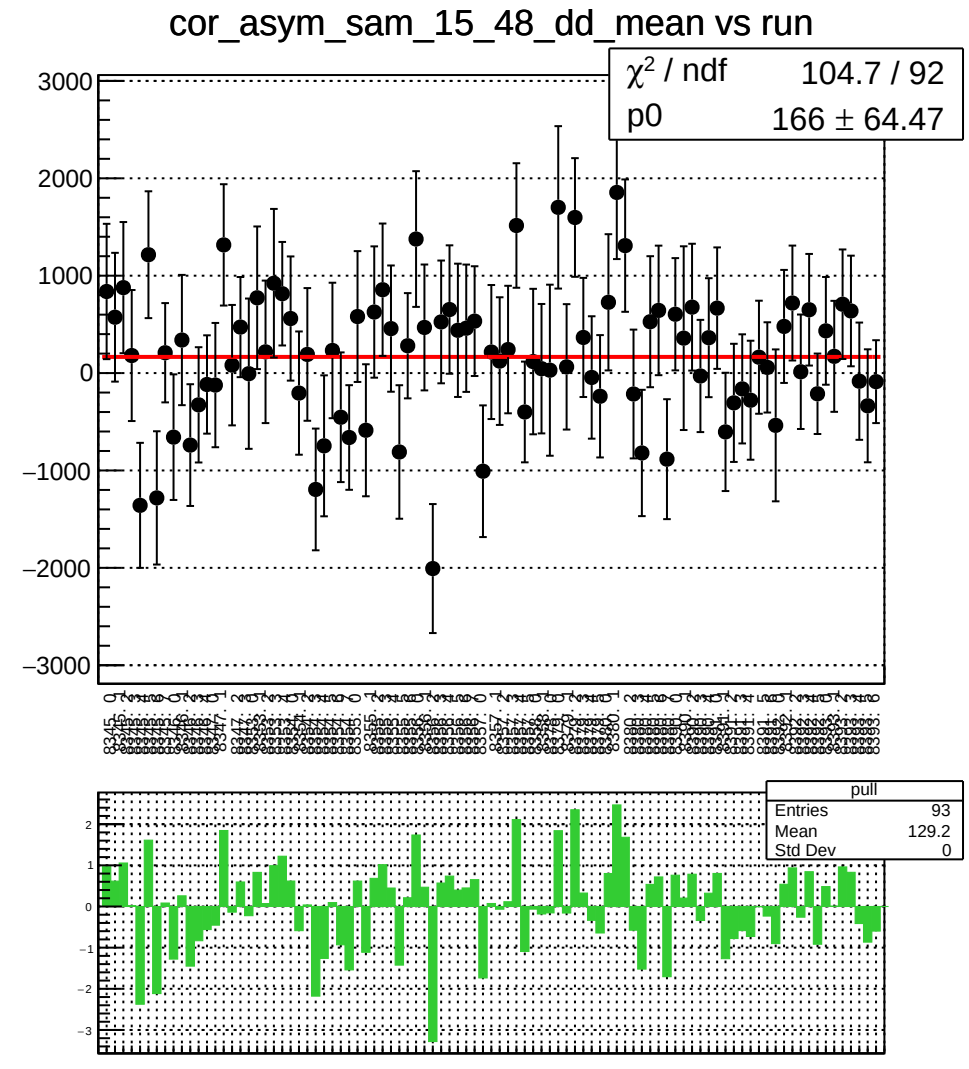

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 104.7 / 92
p0 166 ± 64.47
pull
Entries 93
Mean 129.2
Std Dev 0

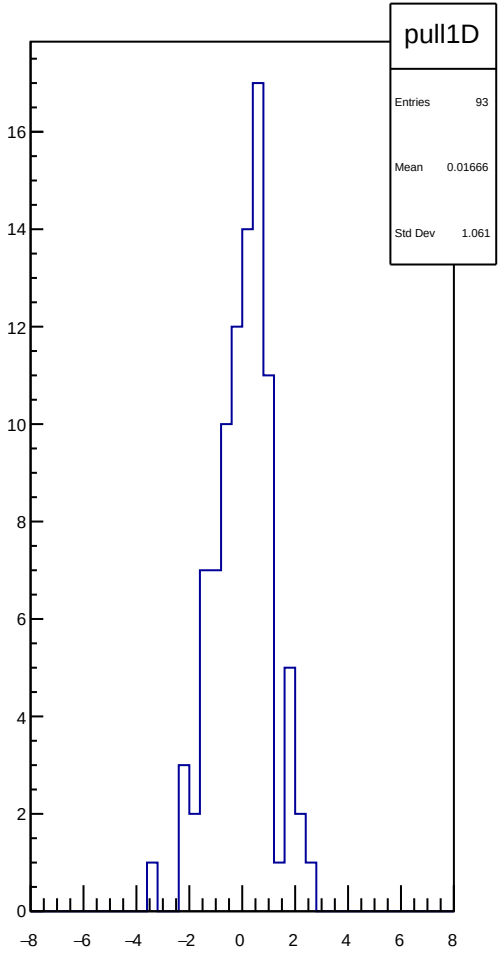

pull1D
Entries 93
Mean 0.01666
Std Dev 1.061

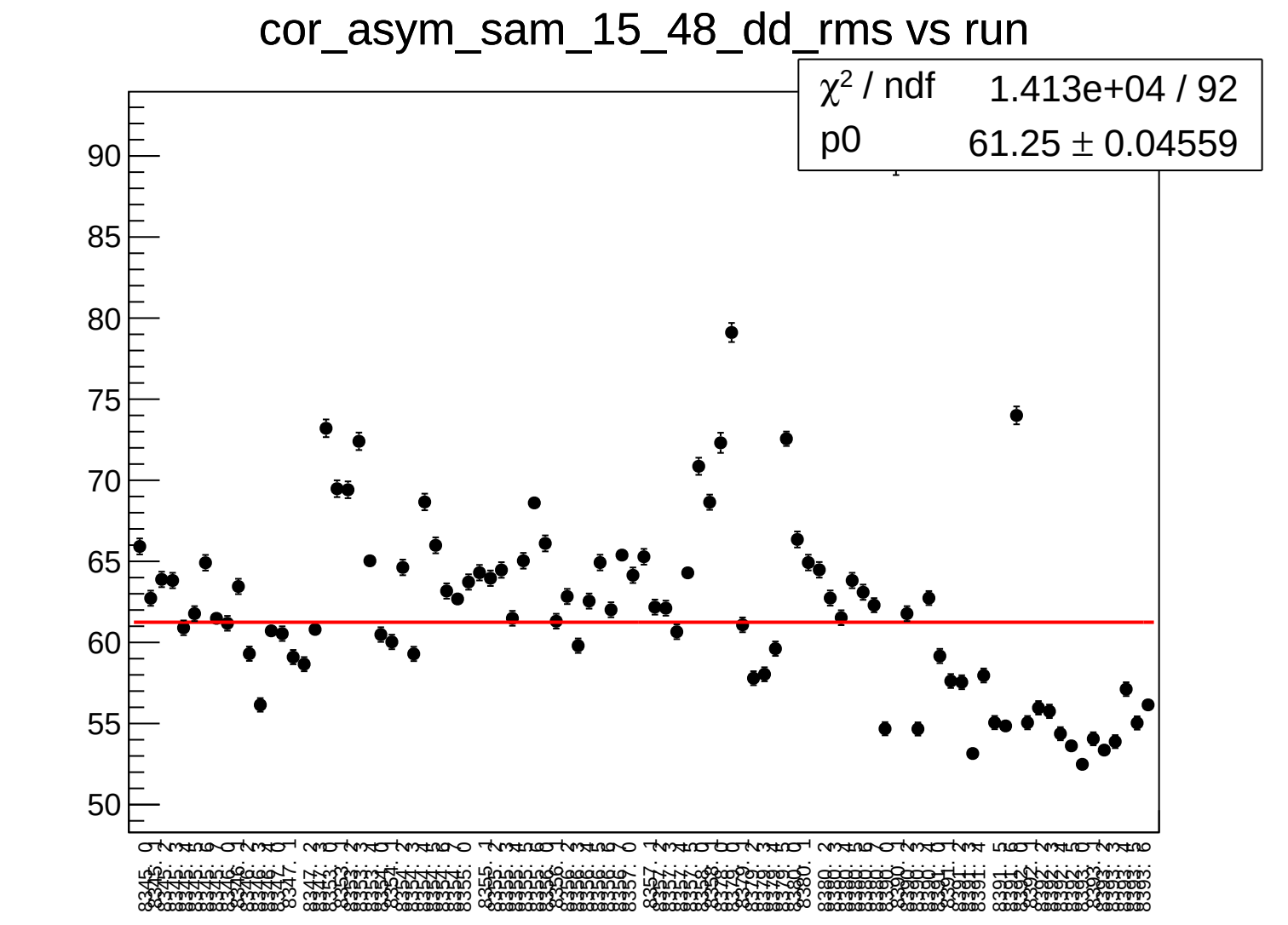

reg_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 1.413e+04 / 92
p0 61.25 ± 0.04559
90
85
80
75
70
65
60
55
50

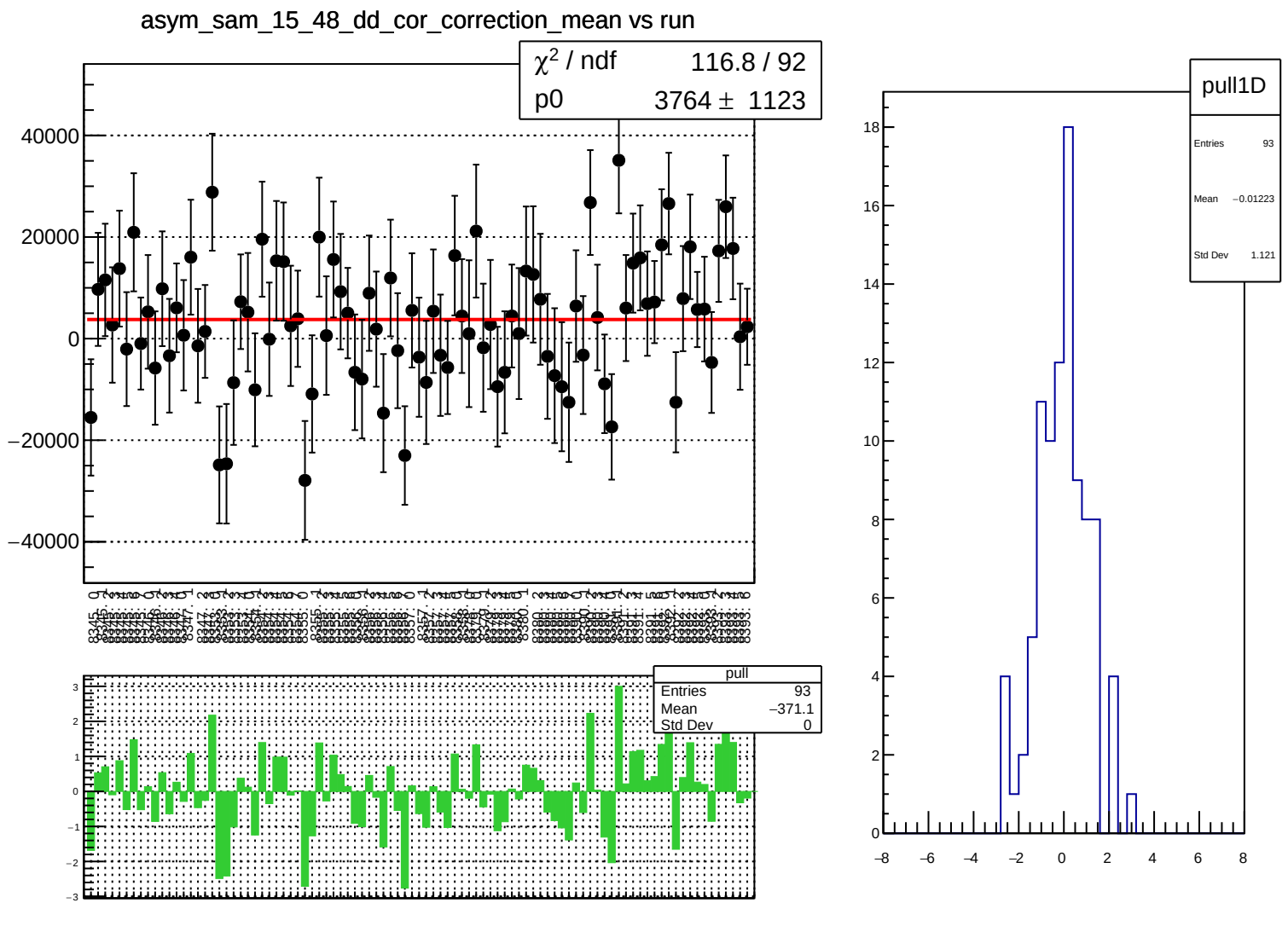

asym_sam_15_48_dd_reg_correction_mean vs run
χ² / ndf 116.8 / 92
p0 3764 ± 1123
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −371.1
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.01223
Std Dev 1.121
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

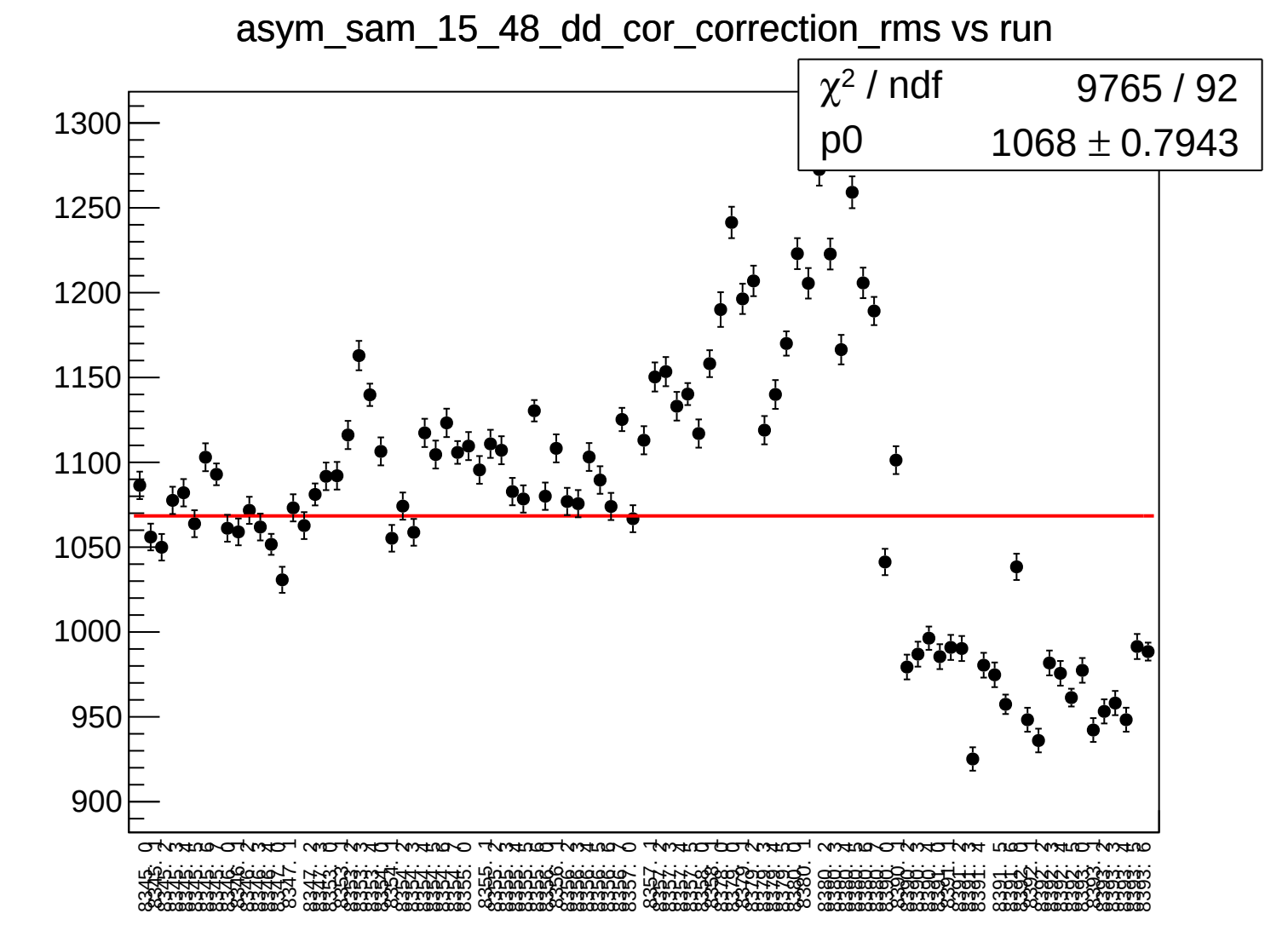

asym_sam_15_48_dd_reg_correction_rms vs run
χ² / ndf 9765 / 92
p0 1068 ± 0.7943
1300
1250
1200
1150
1100
1050
1000
950
900

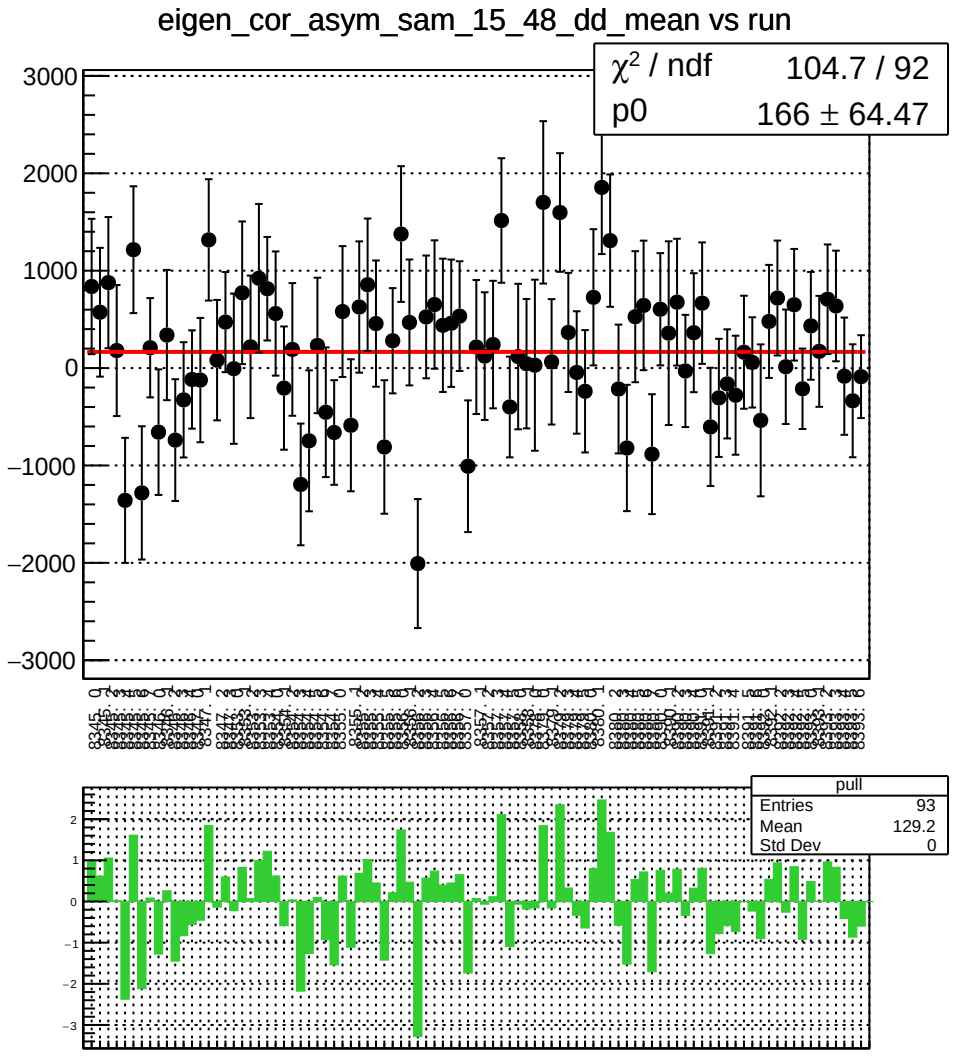

cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 104.7 / 92
p0 166 ± 64.47
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean 129.2
Std Dev 0
2
1
0
−1
−2
−3

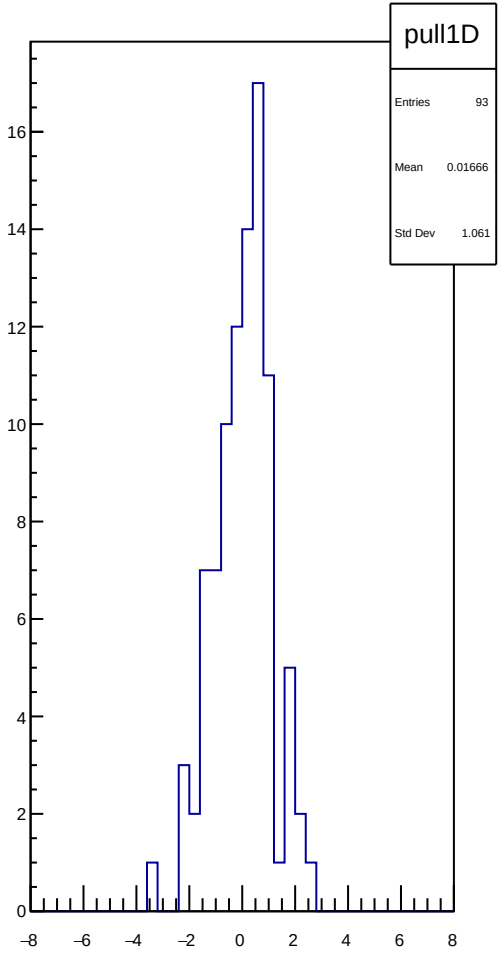

pull1D
Entries 93
Mean 0.01666
Std Dev 1.061
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

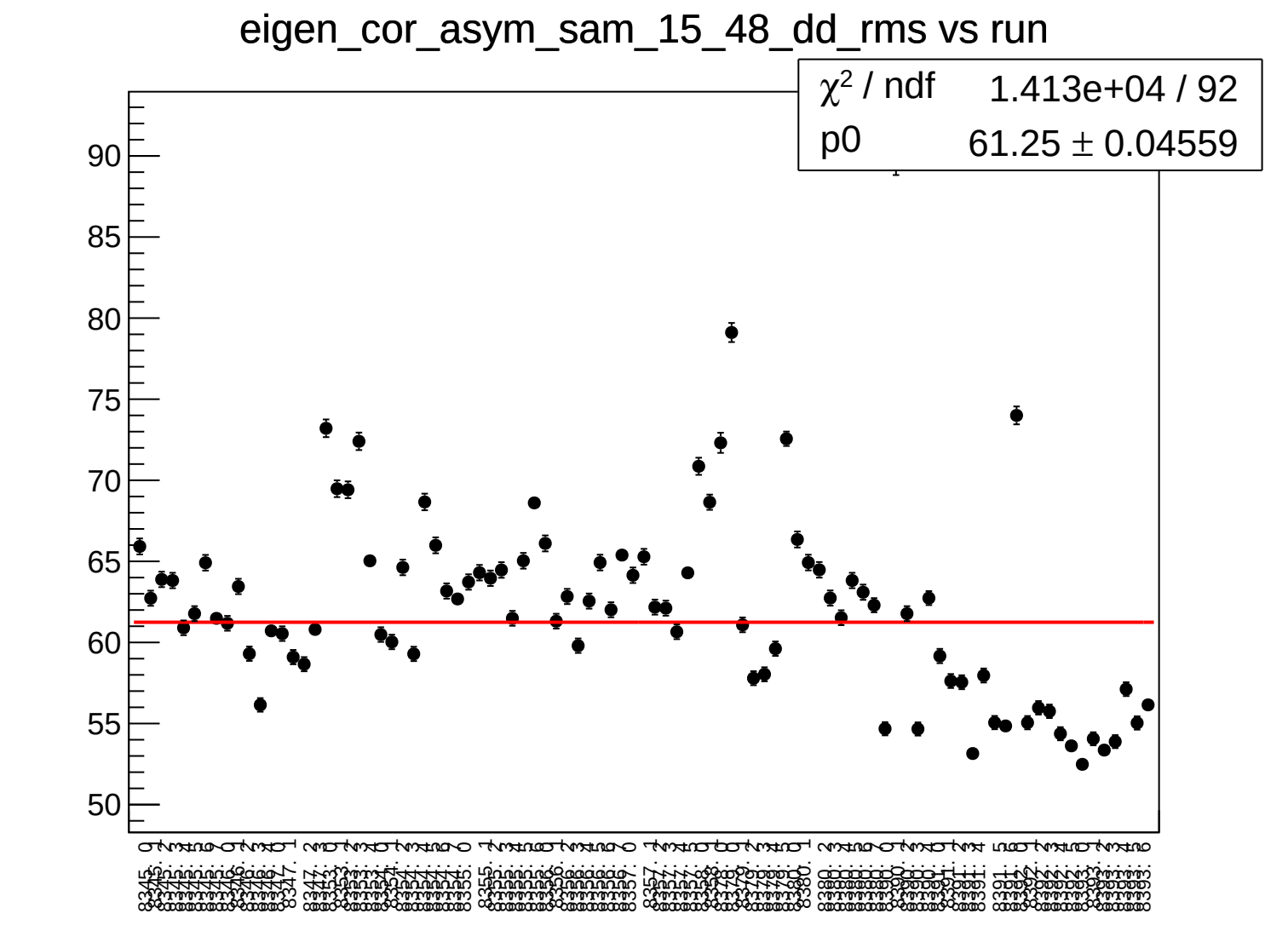

cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 1.413e+04 / 92
p0 61.25 ± 0.04559
90
85
80
75
70
65
60
55
50

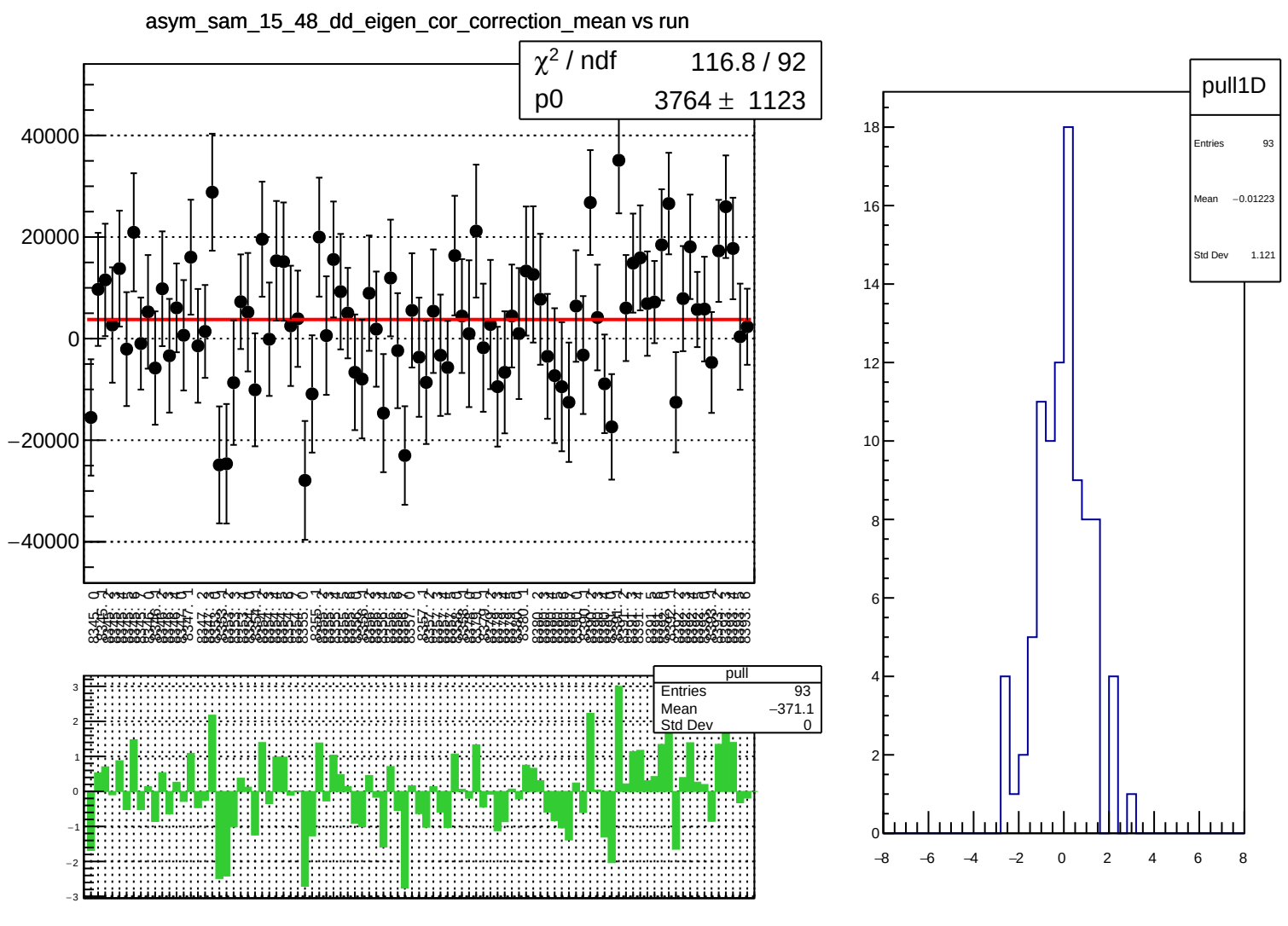

asym_sam_15_48_dd_cor_correction_mean vs run
χ² / ndf 116.8 / 92
p0 3764 ± 1123
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −371.1
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.01223
Std Dev 1.121
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

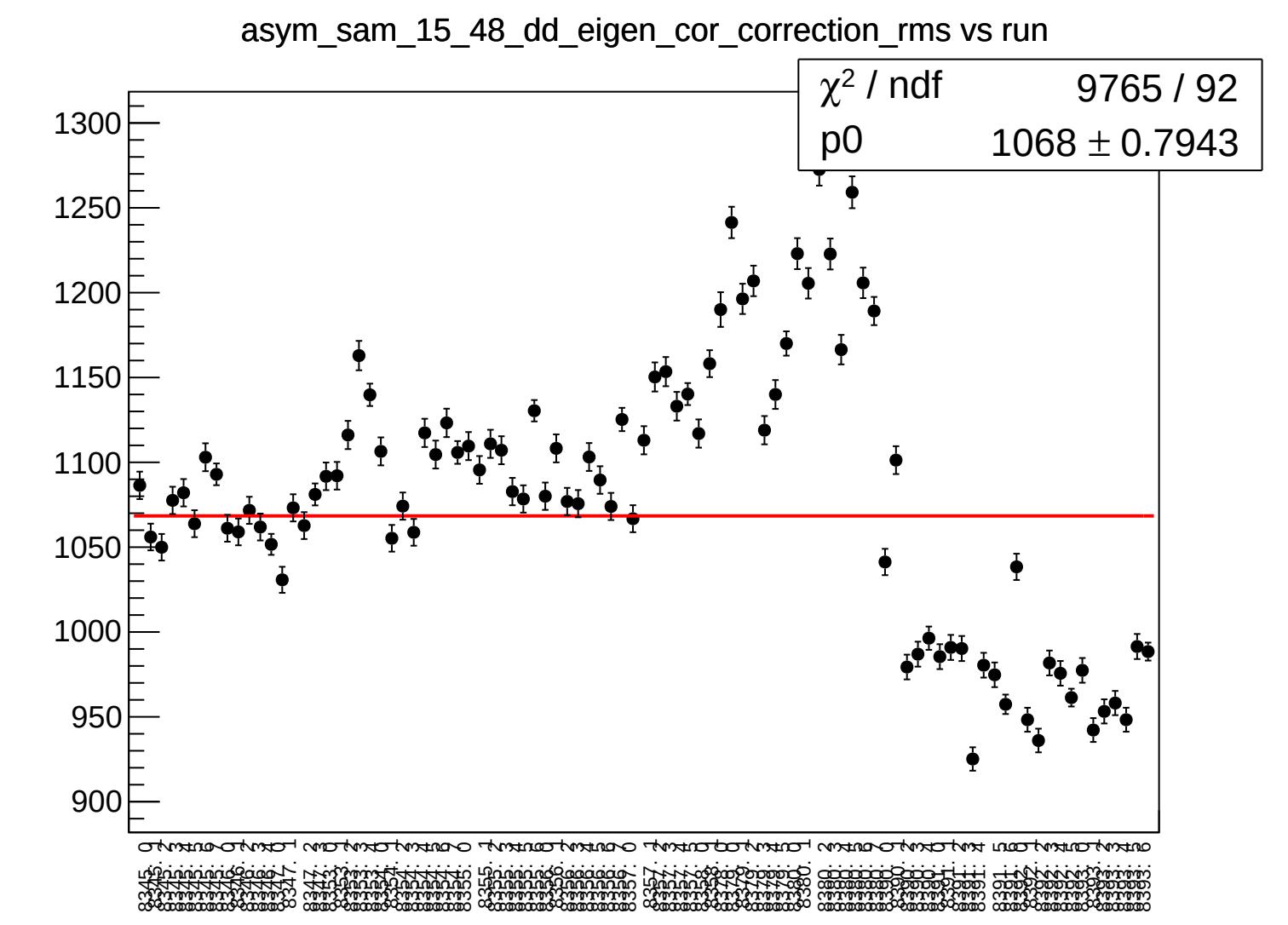

asym_sam_15_48_dd_cor_correction_rms vs run
χ² / ndf 9765 / 92
p0 1068 ± 0.7943
1300
1250
1200
1150
1100
1050
1000
950
900

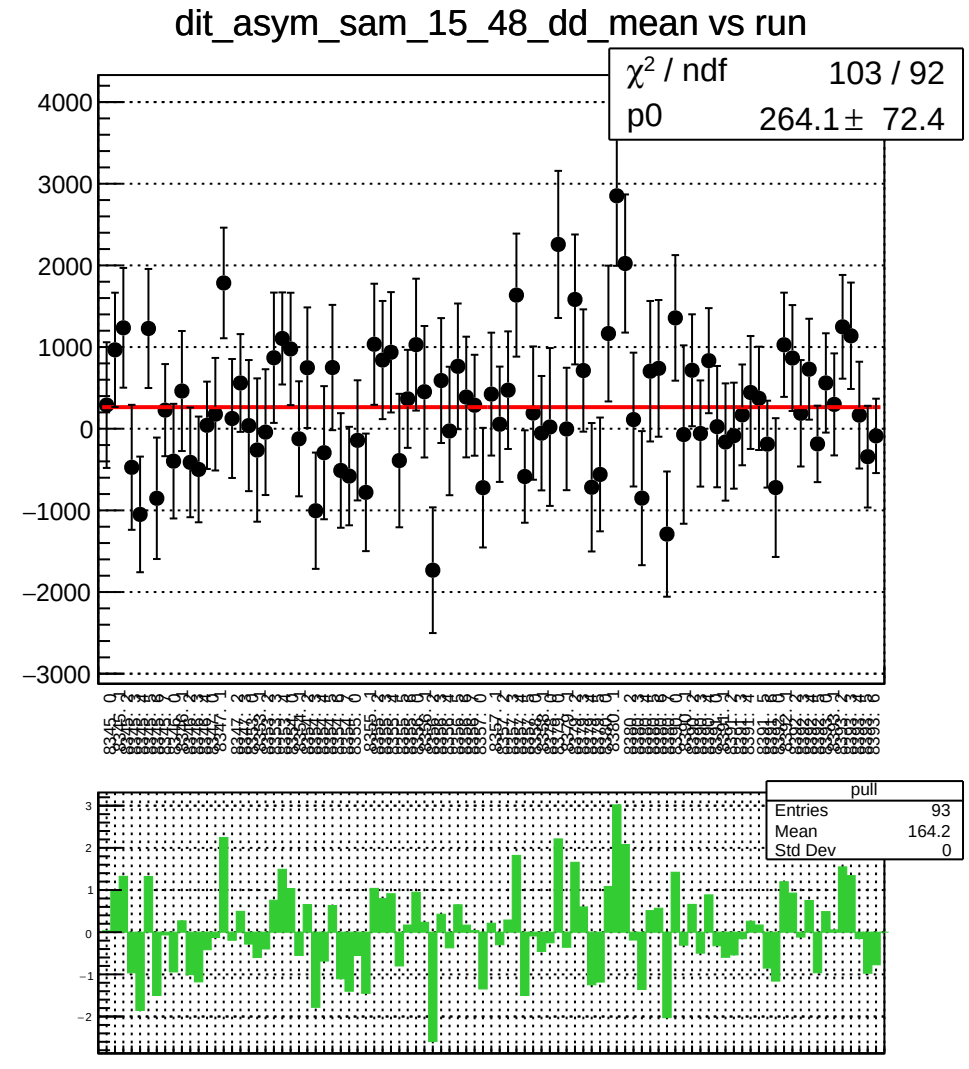

eigen_cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 104.7 / 92
p0 166 ± 64.47
pull
Entries 93
Mean 129.2
Std Dev 0

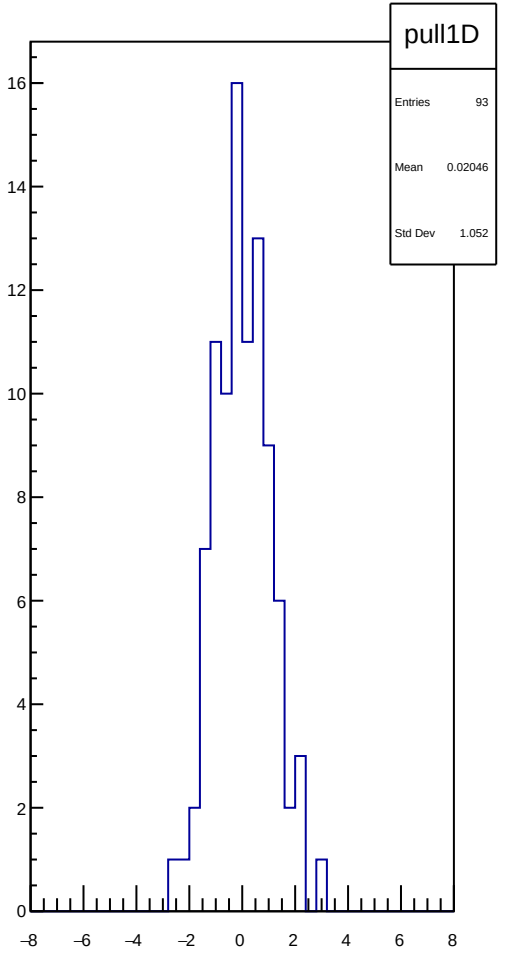

pull1D
Entries 93
Mean 0.01666
Std Dev 1.061

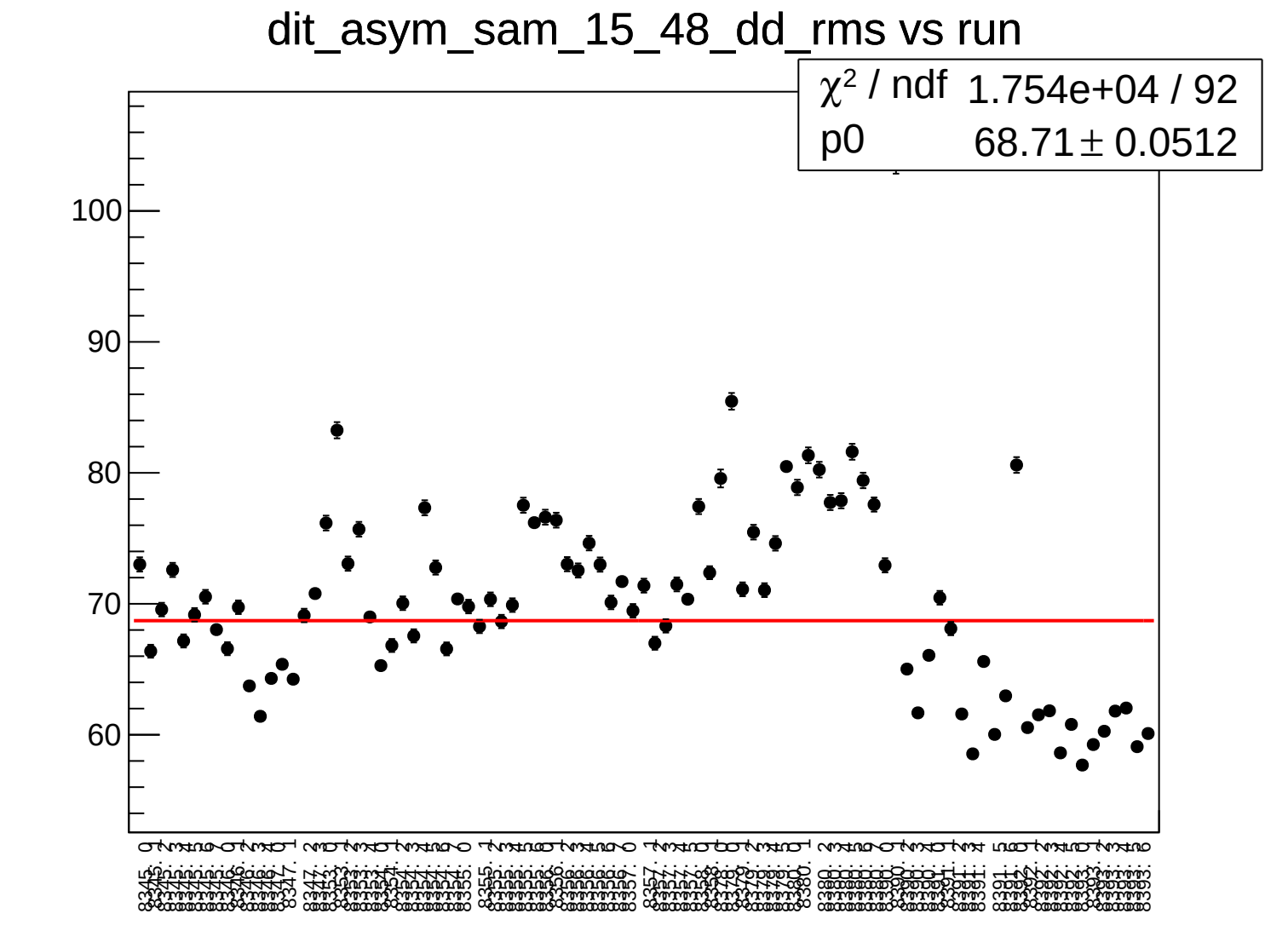

eigen_cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 1.413e+04 / 92
p0 61.25 ± 0.04559
90
85
80
75
70
65
60
55
50

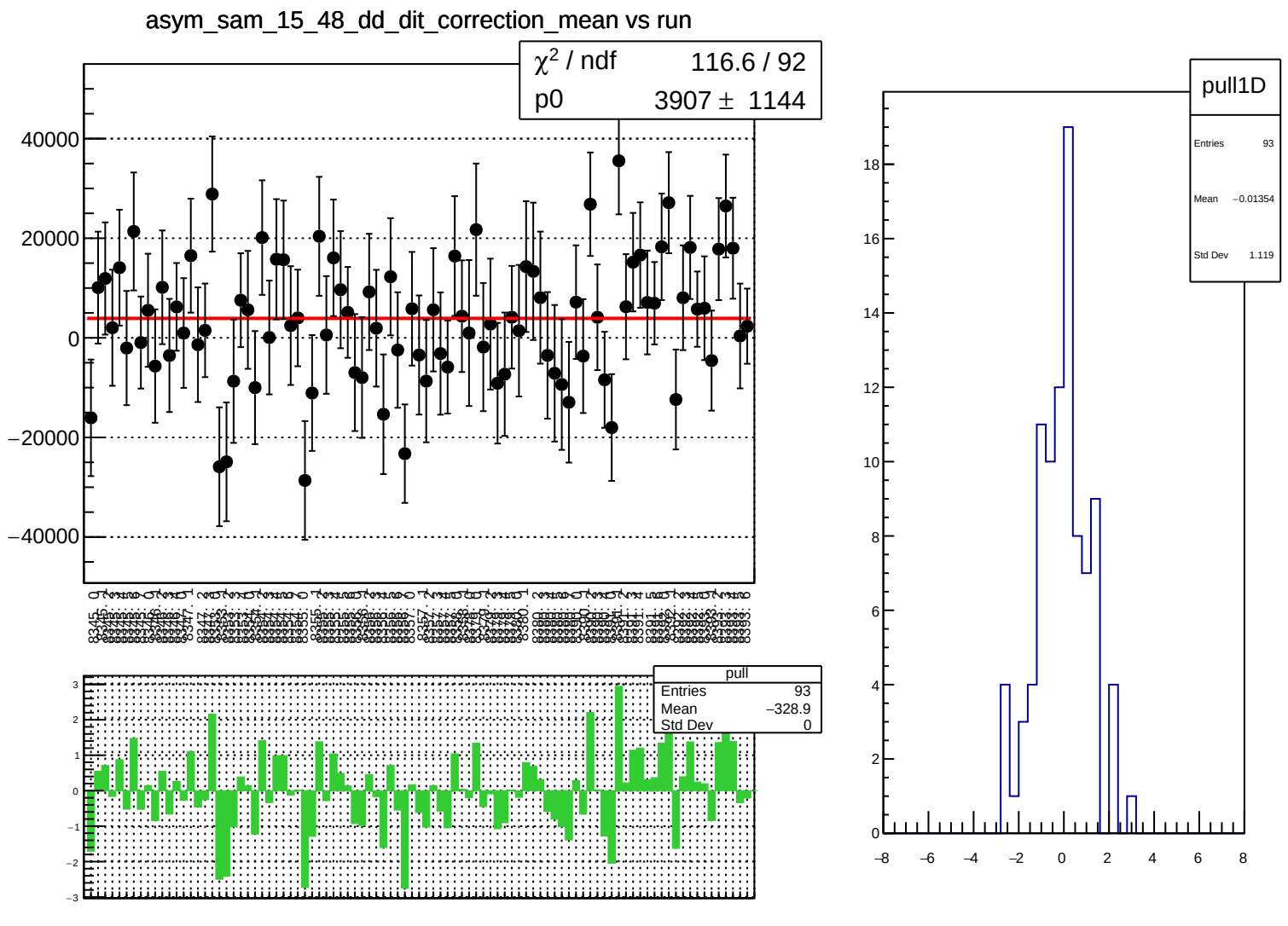

asym_sam_15_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 116.8 / 92
p0 3764 ± 1123
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −371.1
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.01223
Std Dev 1.121
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

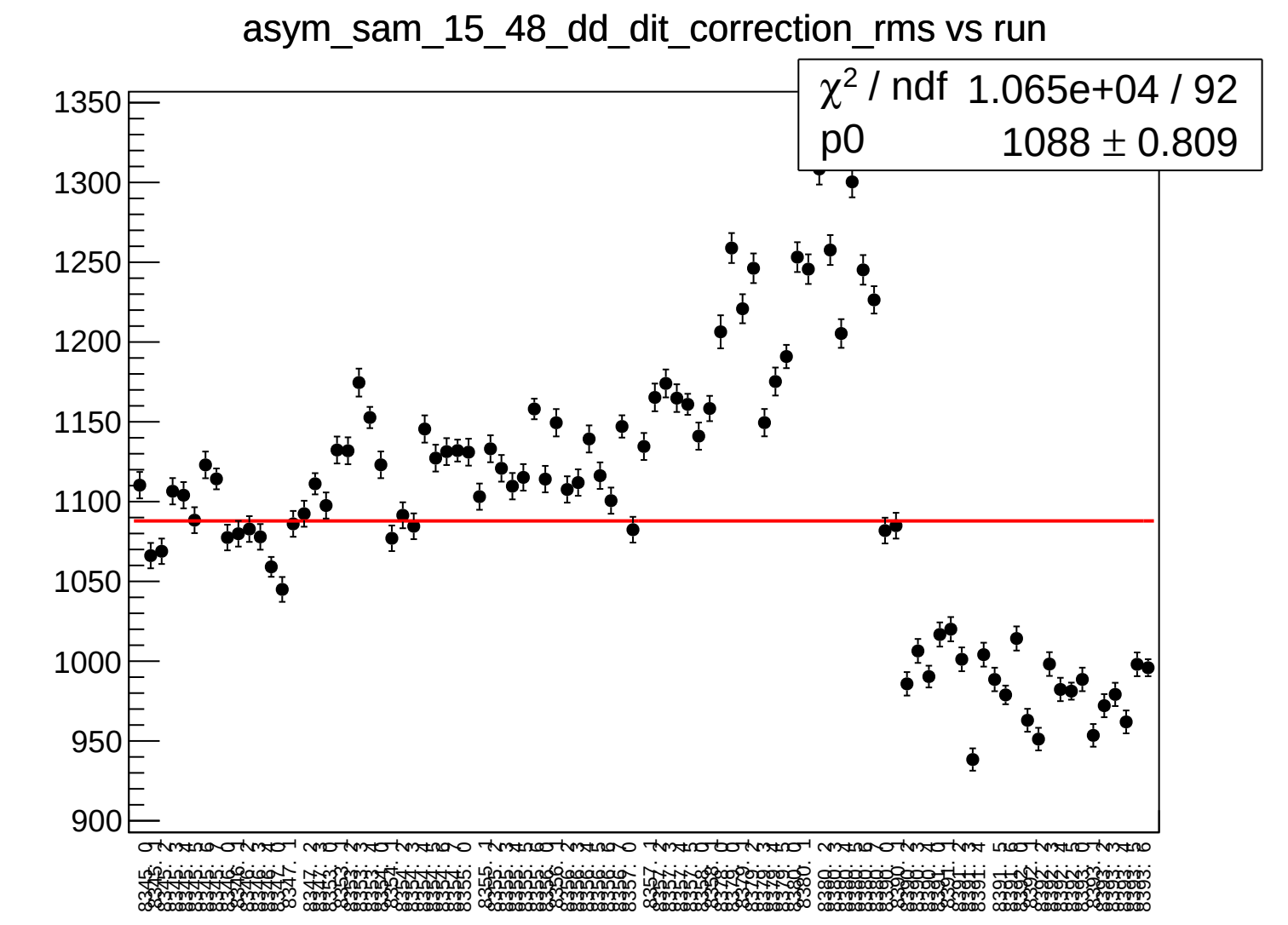

asym_sam_15_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 9765 / 92
p0 1068 ± 0.7943
1300
1250
1200
1150
1100
1050
1000
950
900

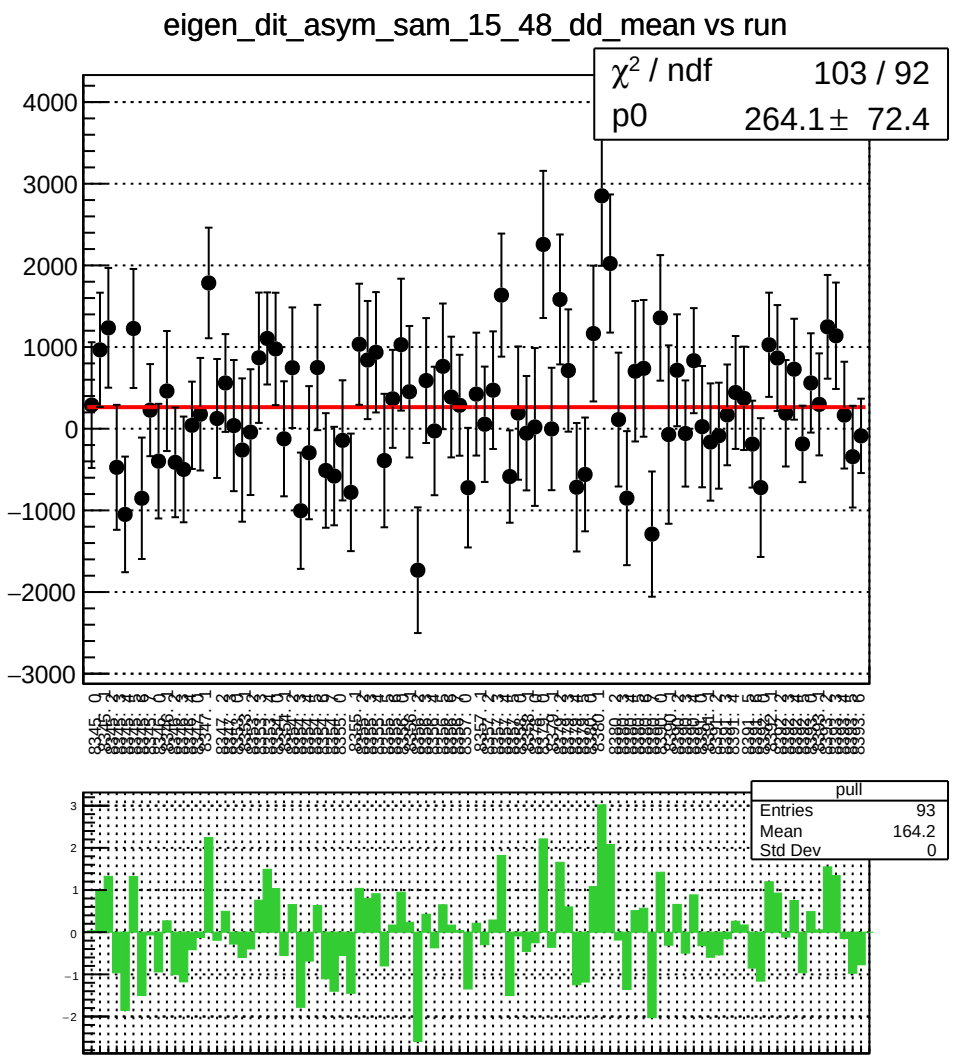

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 103 / 92
p0 264.1 ± 72.4
pull
Entries 93
Mean 164.2
Std Dev 0

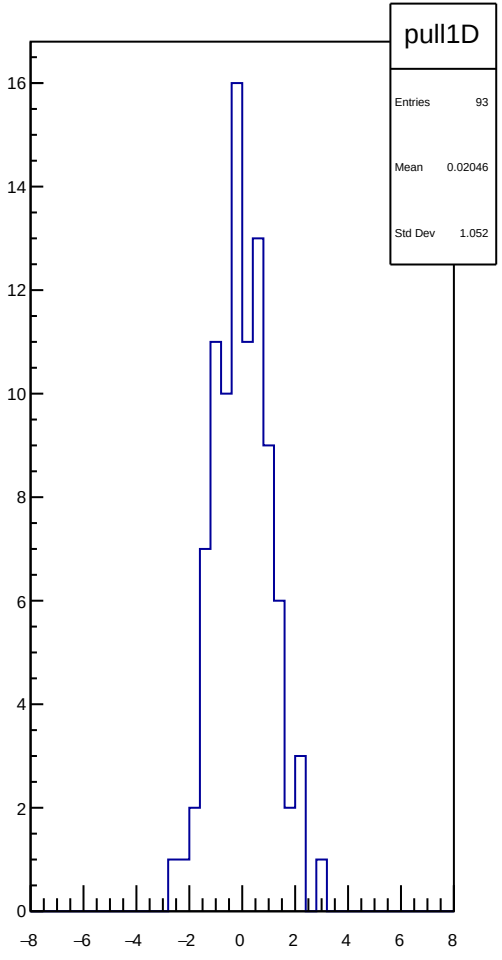

pull1D
Entries 93
Mean 0.02046
Std Dev 1.052

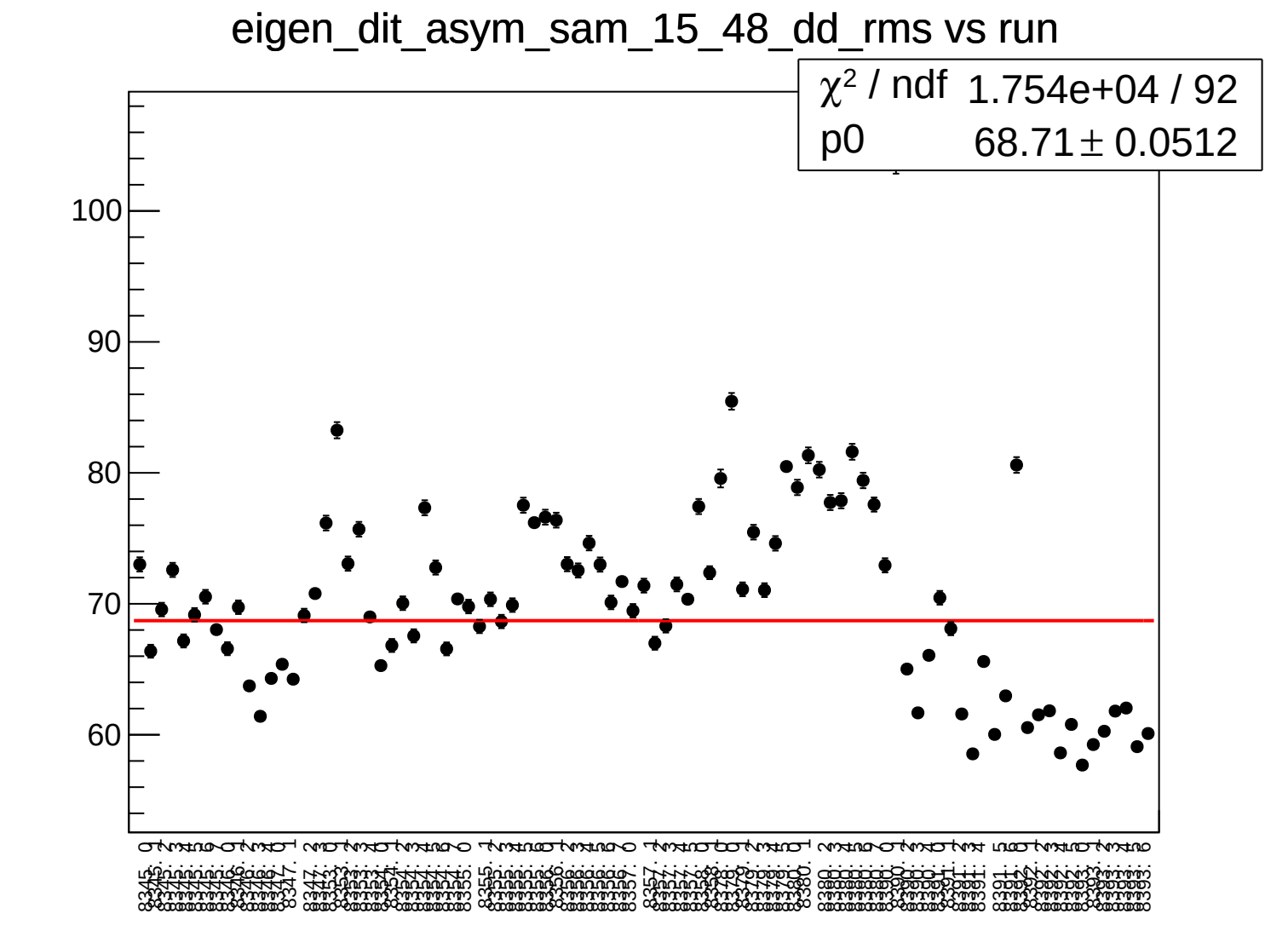

dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 1.754e+04 / 92
p0 68.71 ± 0.0512
100
90
80
70
60

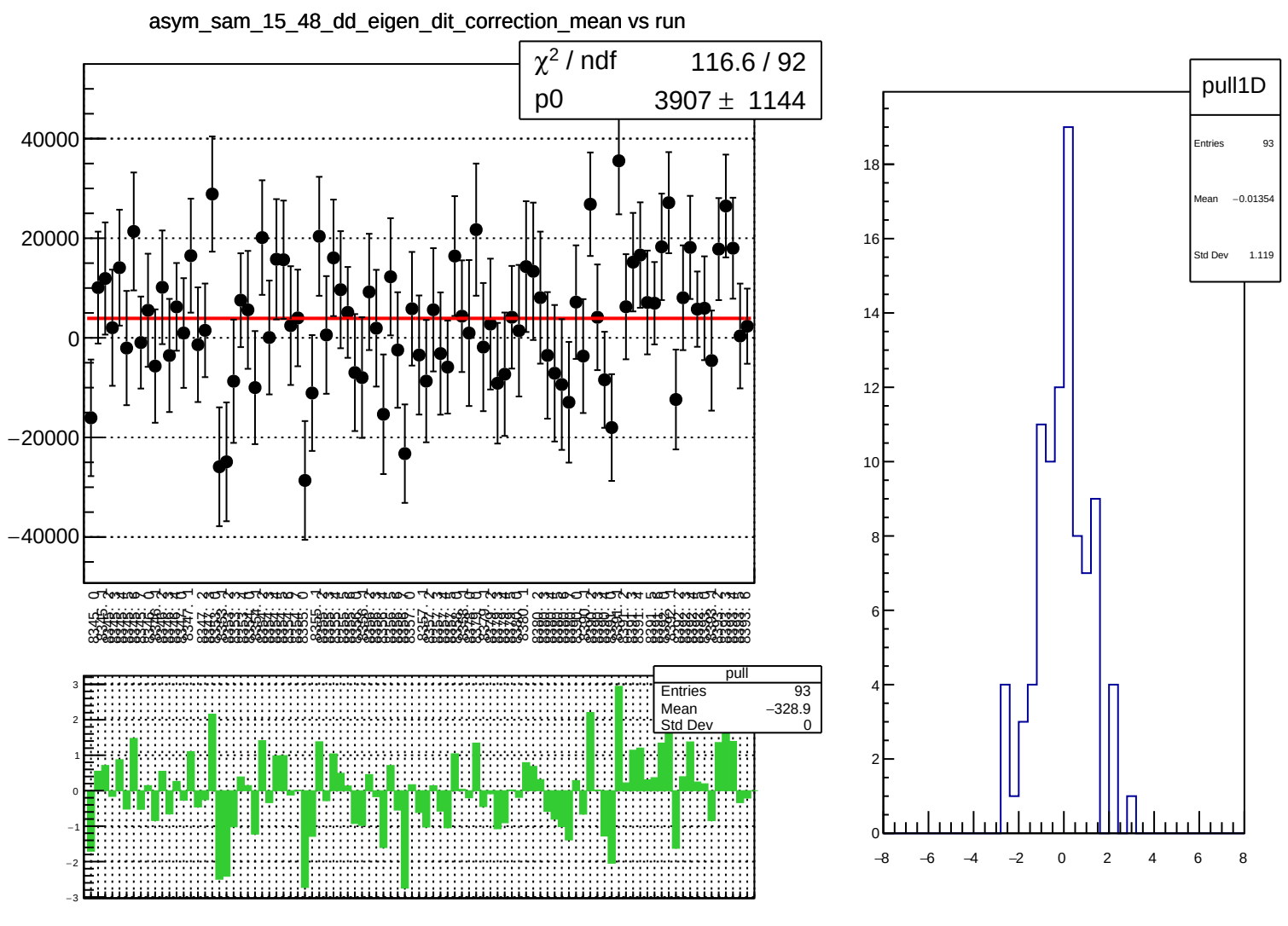

asym_sam_15_48_dd_dit_correction_mean vs run
χ² / ndf 116.6 / 92
p0 3907 ± 1144
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −328.9
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.01354
Std Dev 1.119
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

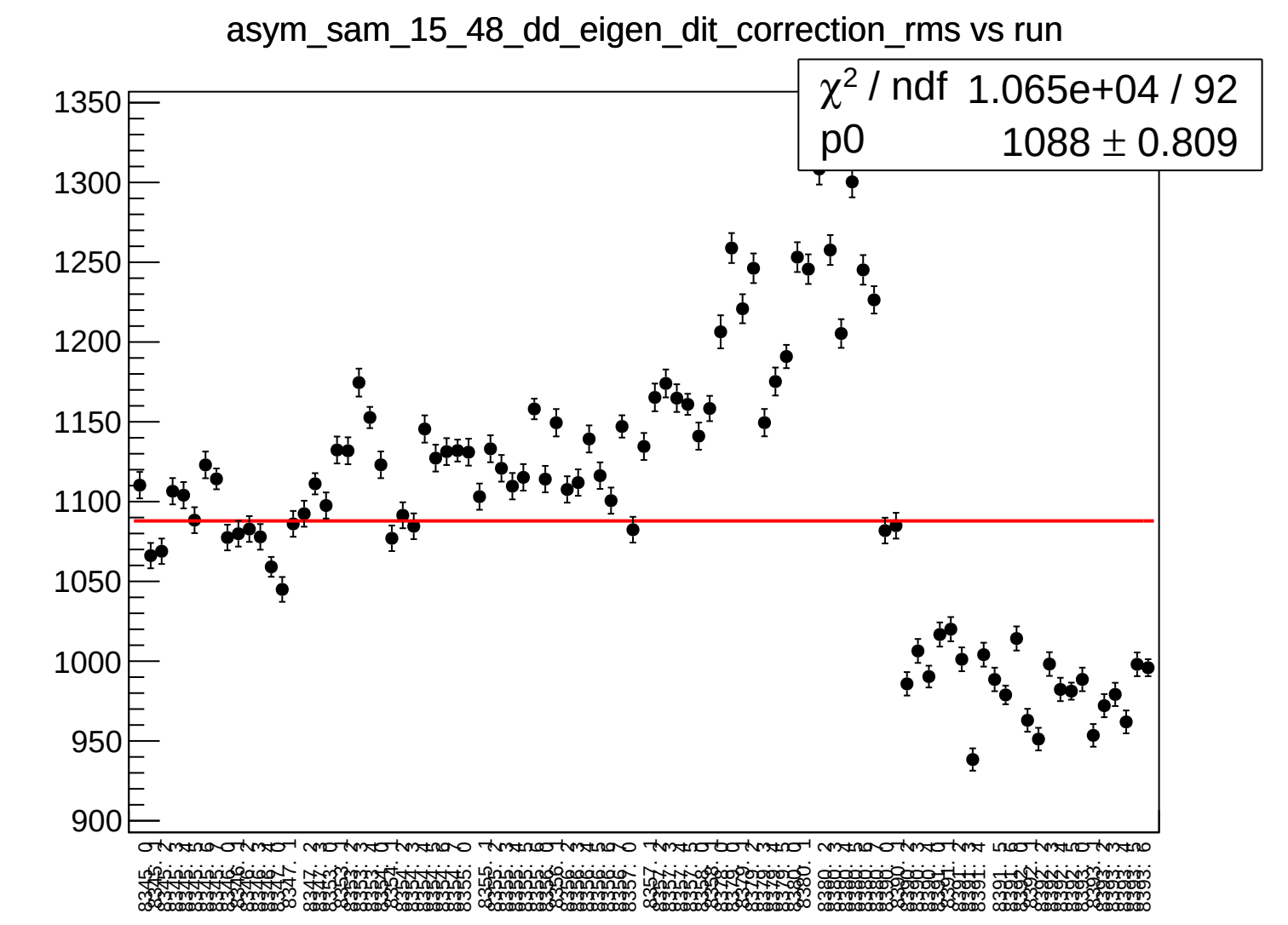

asym_sam_15_48_dd_dit_correction_rms vs run
χ² / ndf 1.065e+04 / 92
p0 1088 ± 0.809
1350
1300
1250
1200
1150
1100
1050
1000
950
900

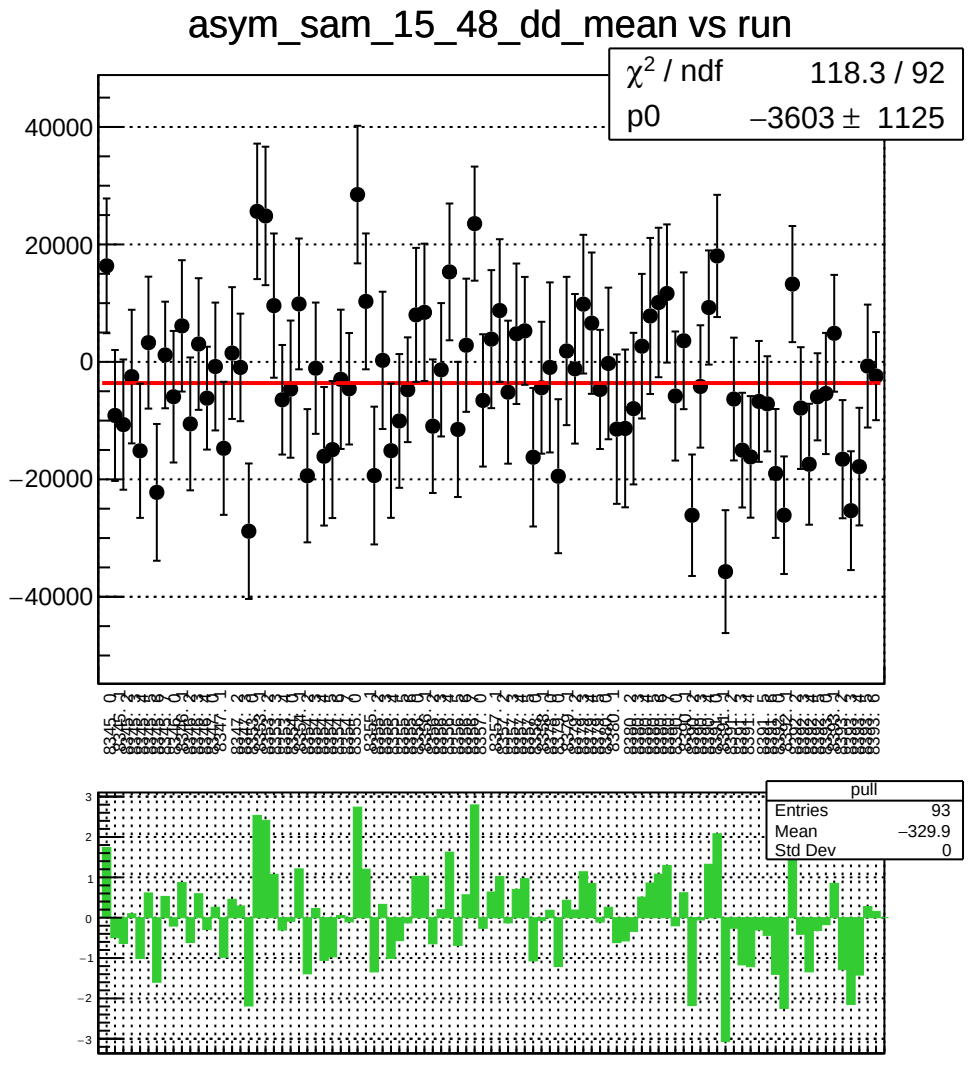

eigen_dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 103 / 92
p0 264.1 ± 72.4
pull
Entries 93
Mean 164.2
Std Dev 0

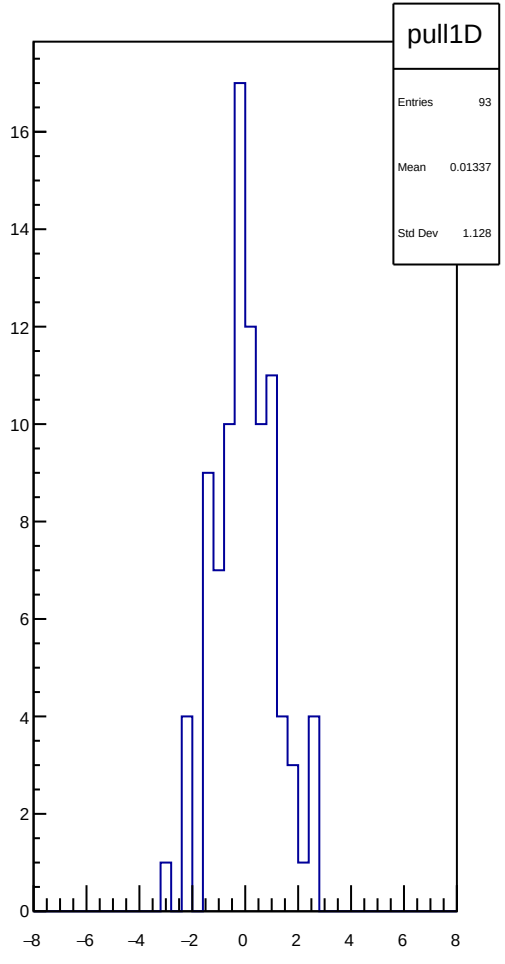

pull1D
Entries 93
Mean 0.02046
Std Dev 1.052

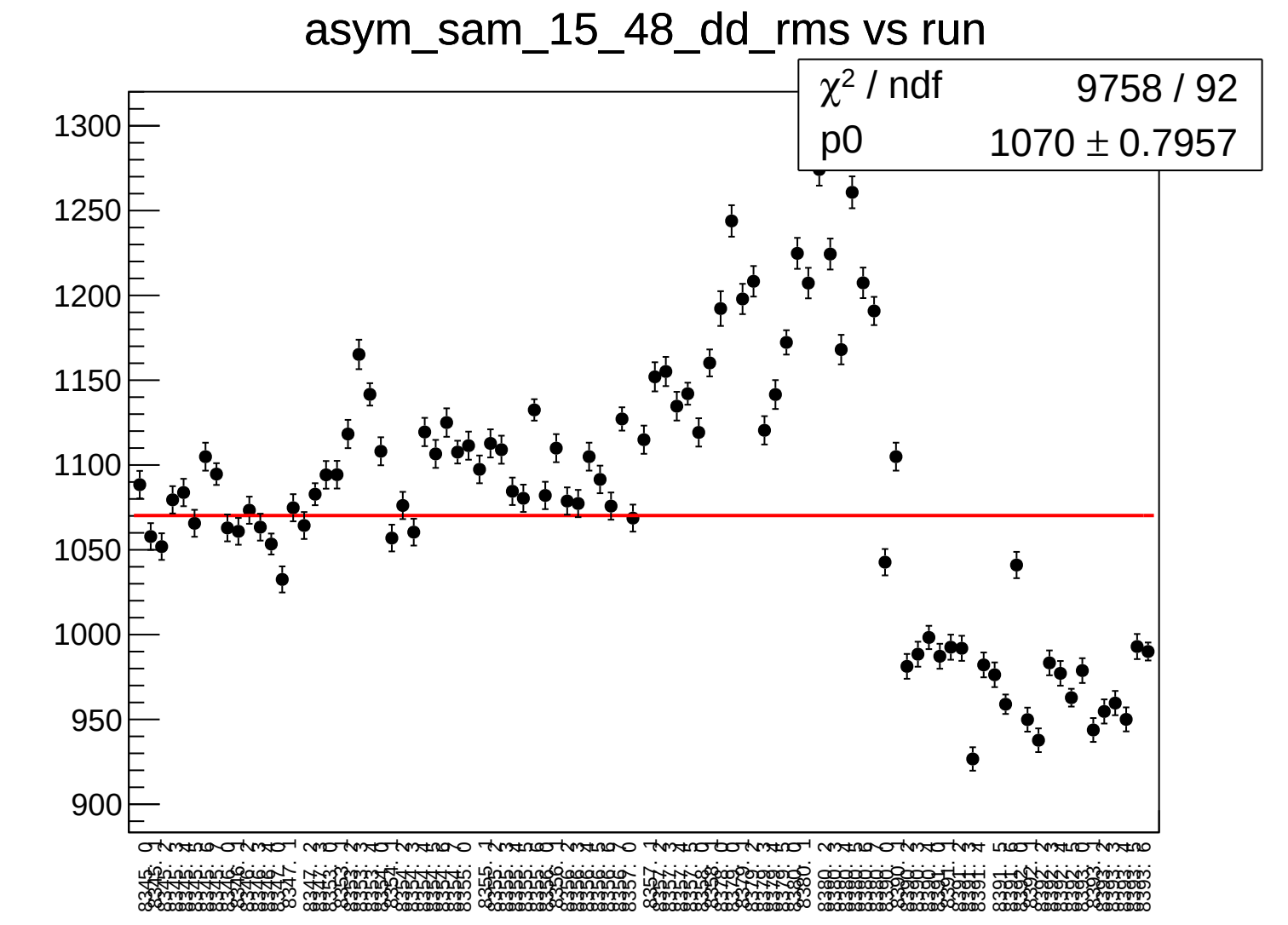

eigen_dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 1.754e+04 / 92
p0 68.71 ± 0.0512
100
90
80
70
60

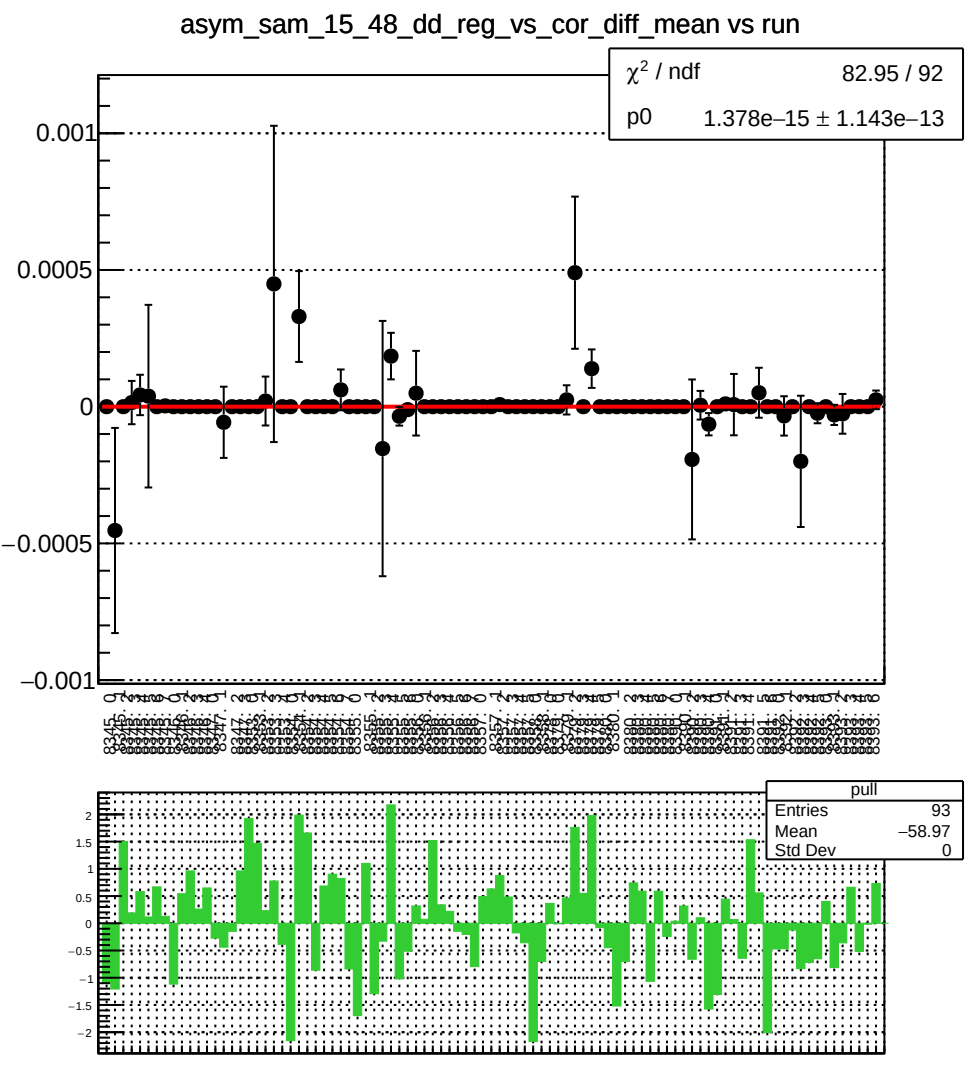

asym_sam_15_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 116.6 / 92
p0 3907 ± 1144
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −328.9
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.01354
Std Dev 1.119
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

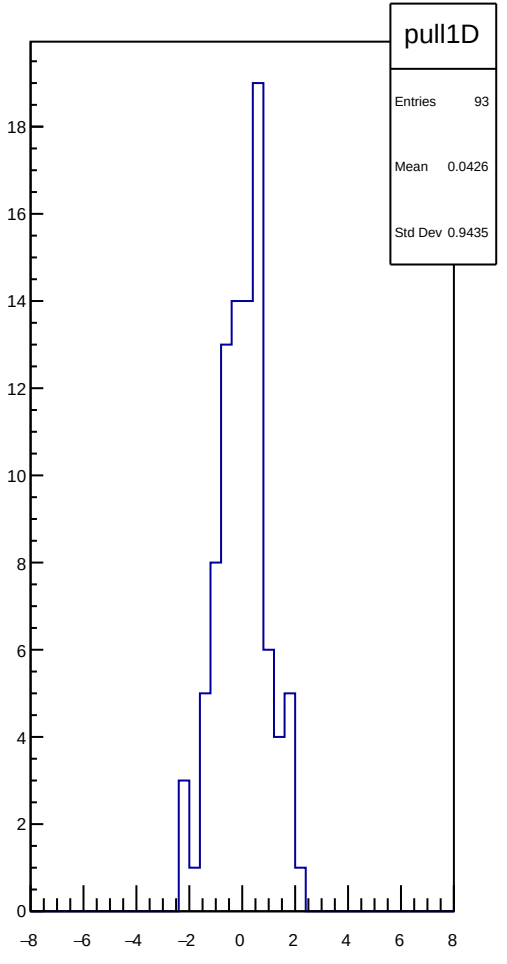

asym_sam_15_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.065e+04 / 92
p0 1088 ± 0.809
1350
1300
1250
1200
1150
1100
1050
1000
950
900

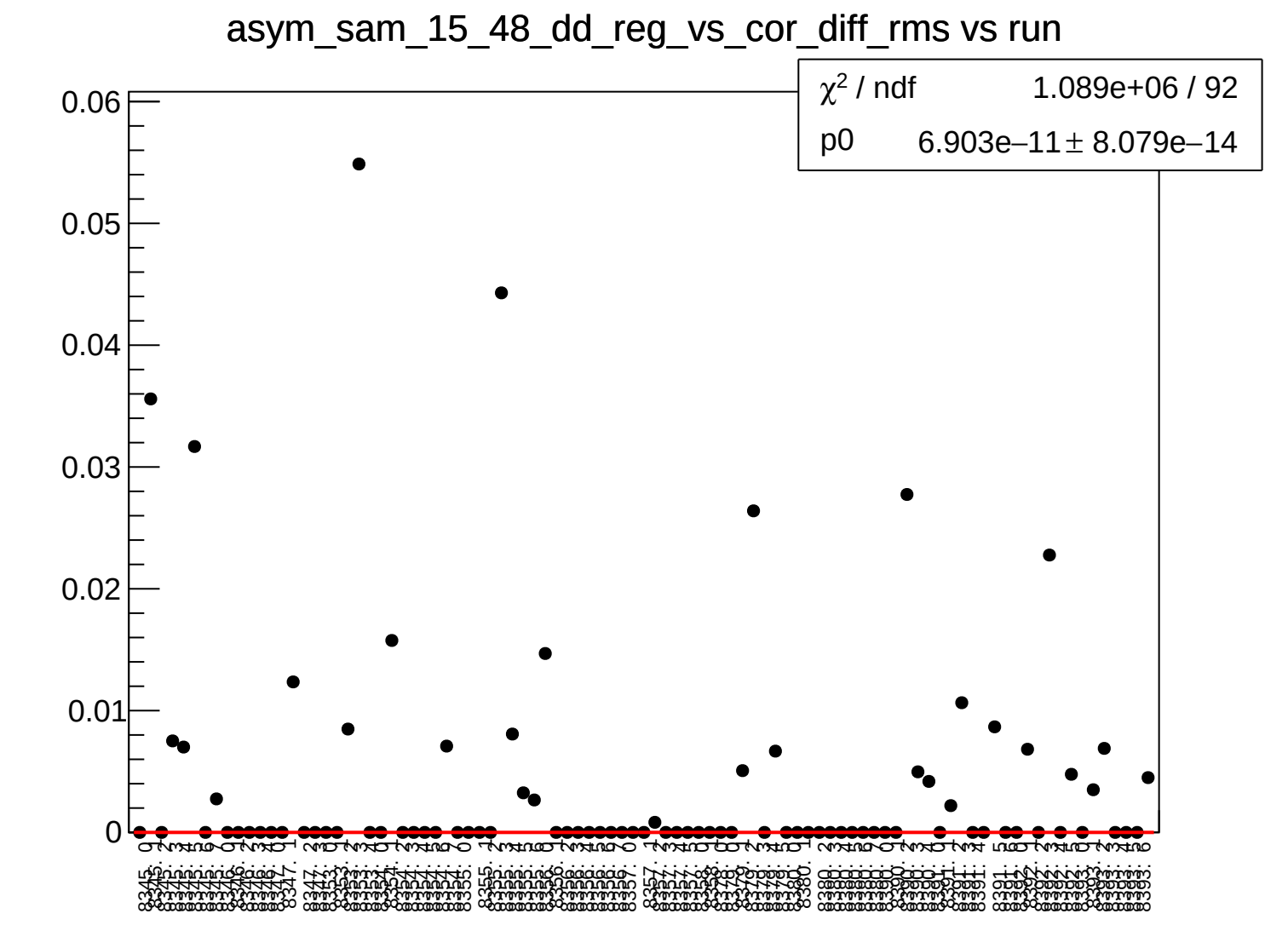

asym_sam_15_48_dd_mean vs run
χ² / ndf 118.3 / 92
p0 −3603 ± 1125
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −329.9
Std Dev 0
3
2
1
0
−1
−2
−3

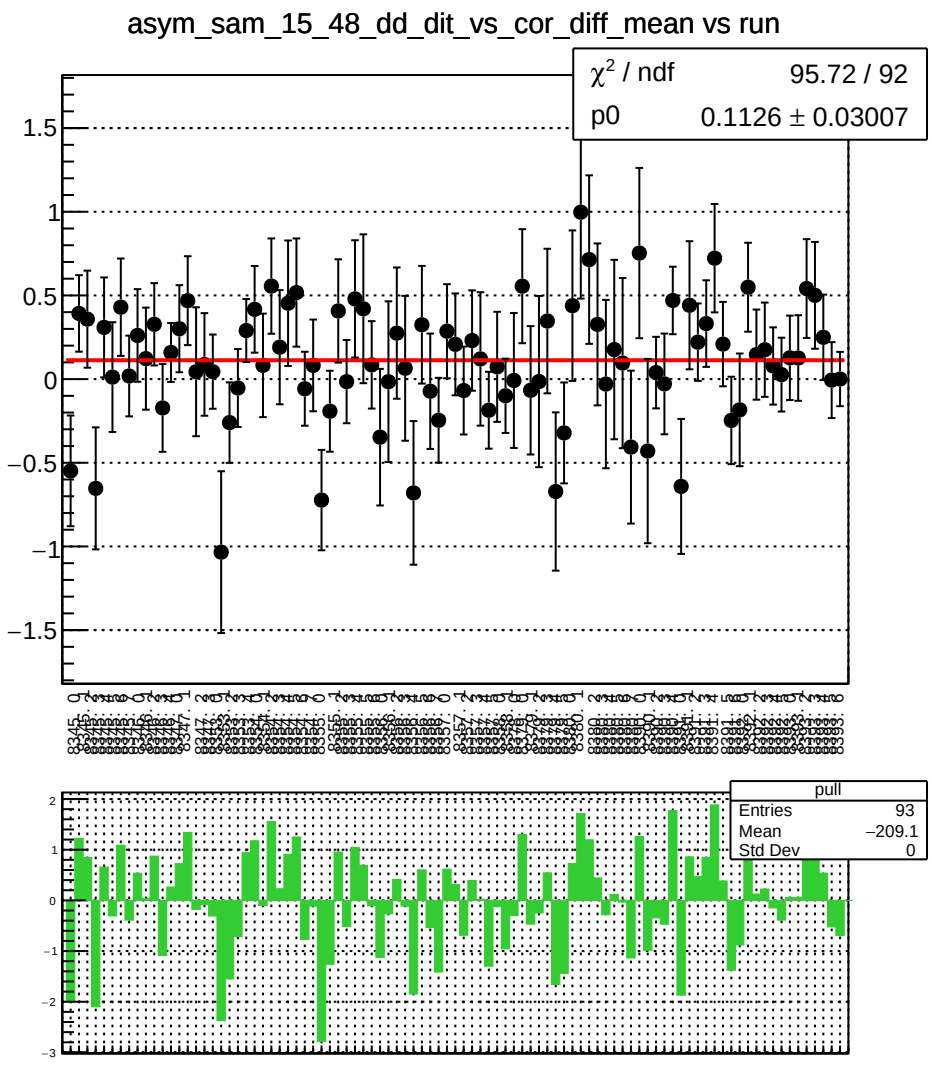

pull1D
Entries 93
Mean 0.01337
Std Dev 1.128
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

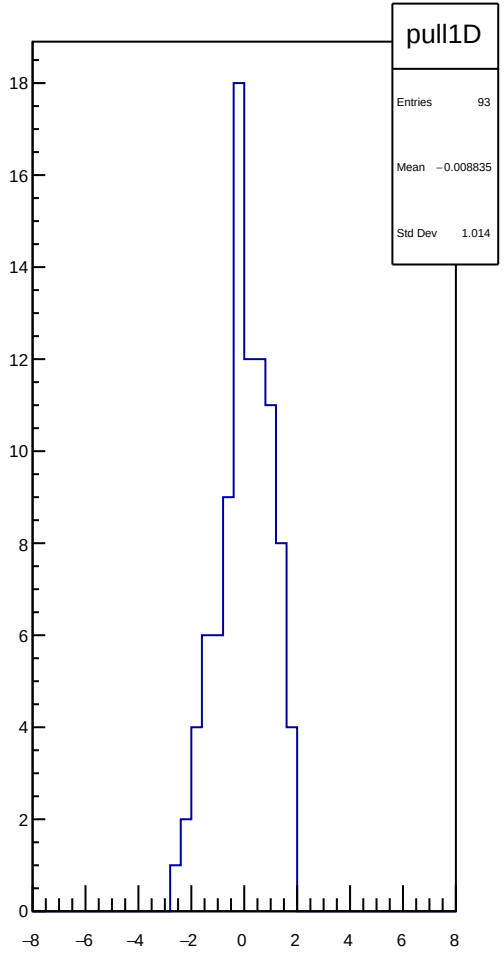

asym_sam_15_48_dd_rms vs run
χ² / ndf 9758 / 92
p0 1070 ± 0.7957
1300
1250
1200
1150
1100
1050
1000
950
900

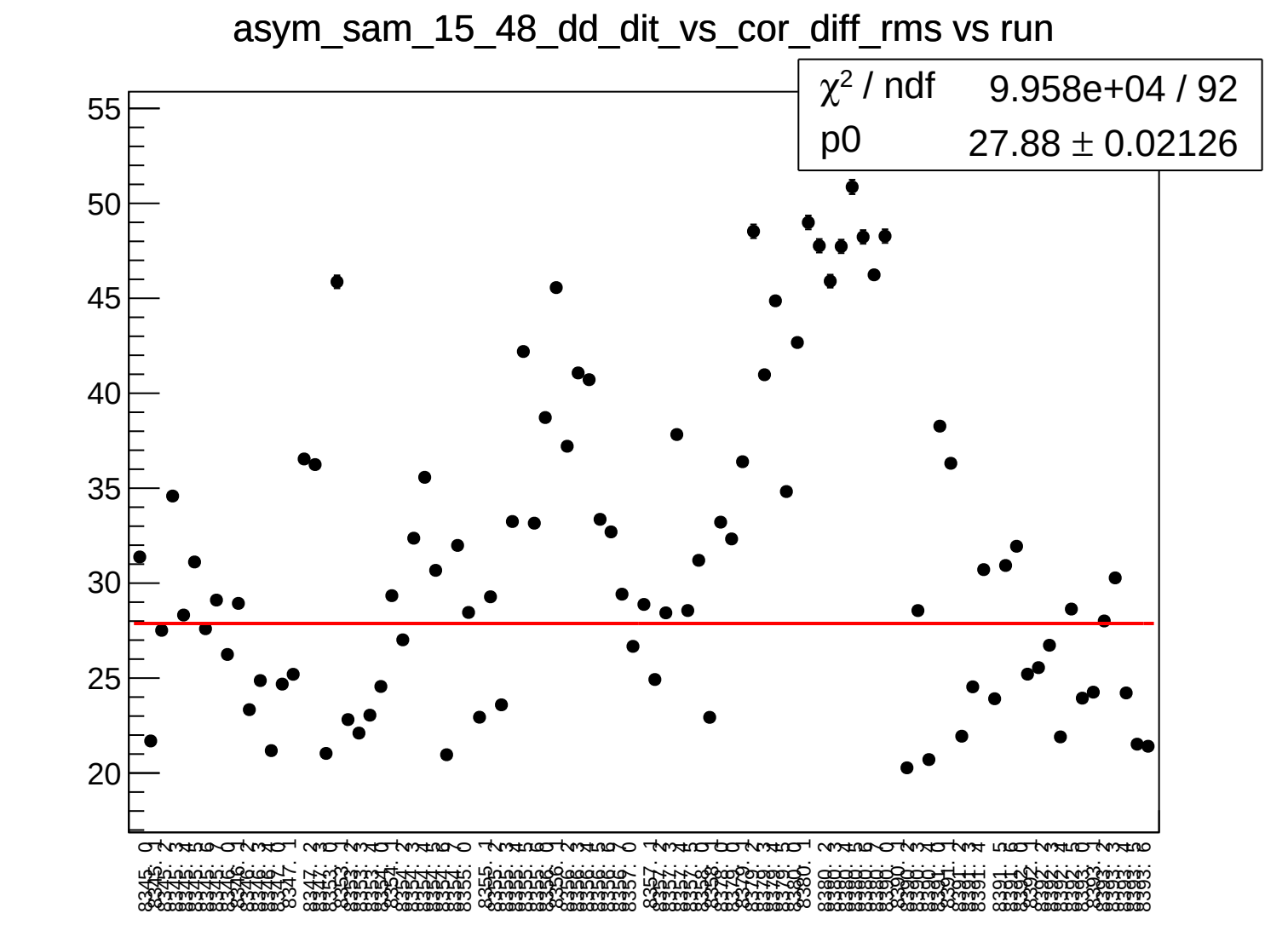

asym_sam_15_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 82.95 / 92
p0 1.378e−15 ± 1.143e−13
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 93
Mean −58.97
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

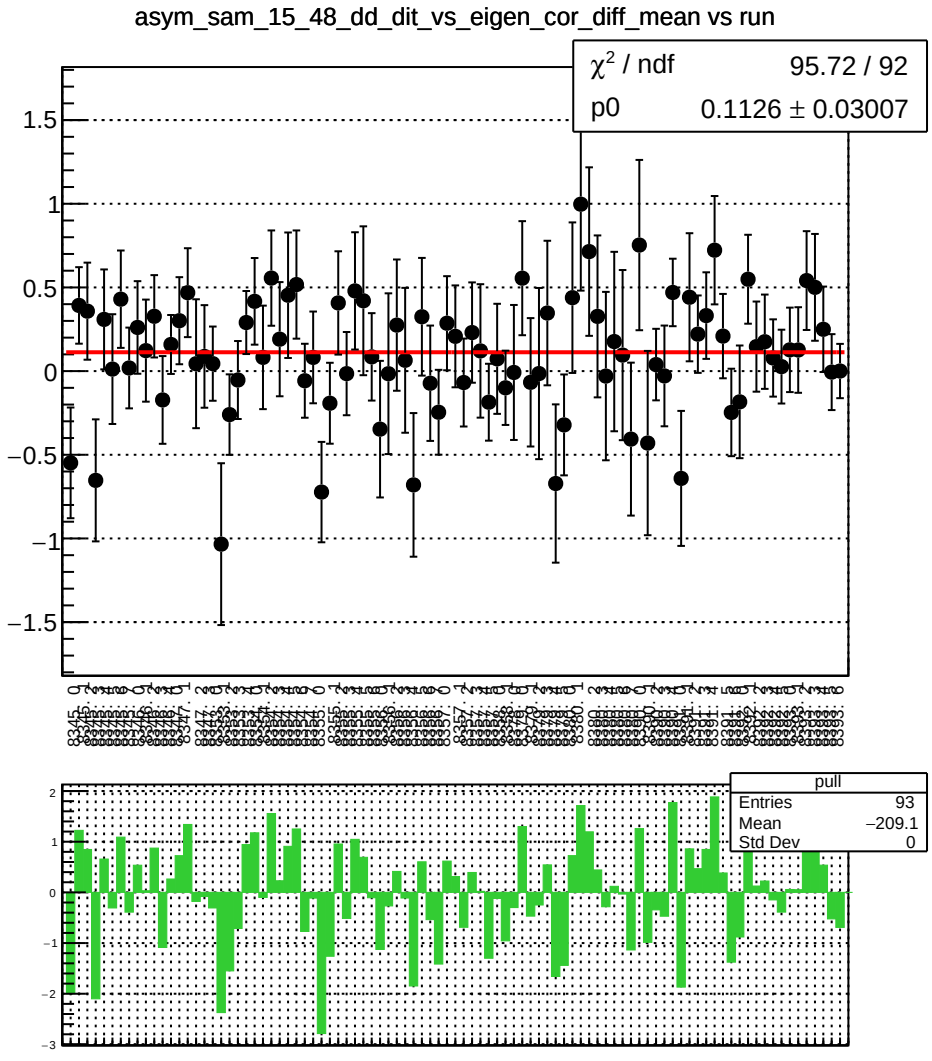

pull1D
Entries 93
Mean 0.0426
Std Dev 0.9435
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

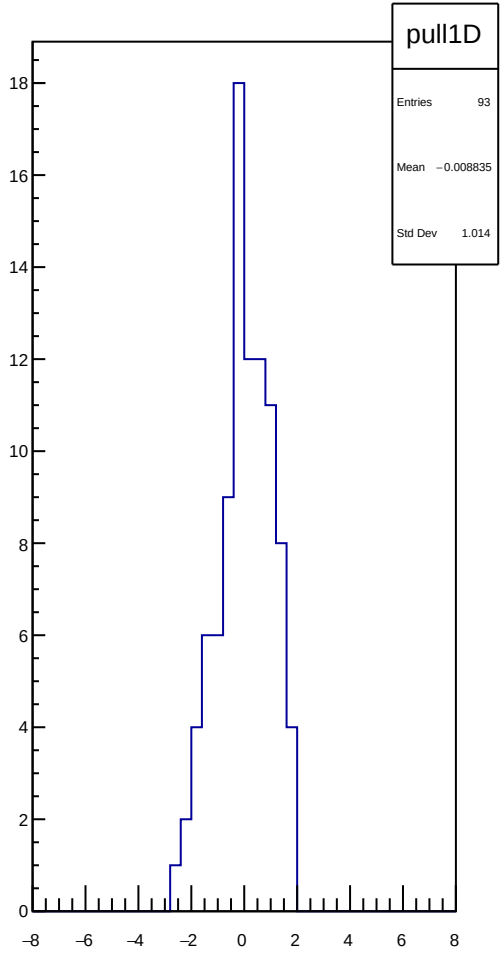

asym_sam_15_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.089e+06 / 92
p0 6.903e−11 ± 8.079e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

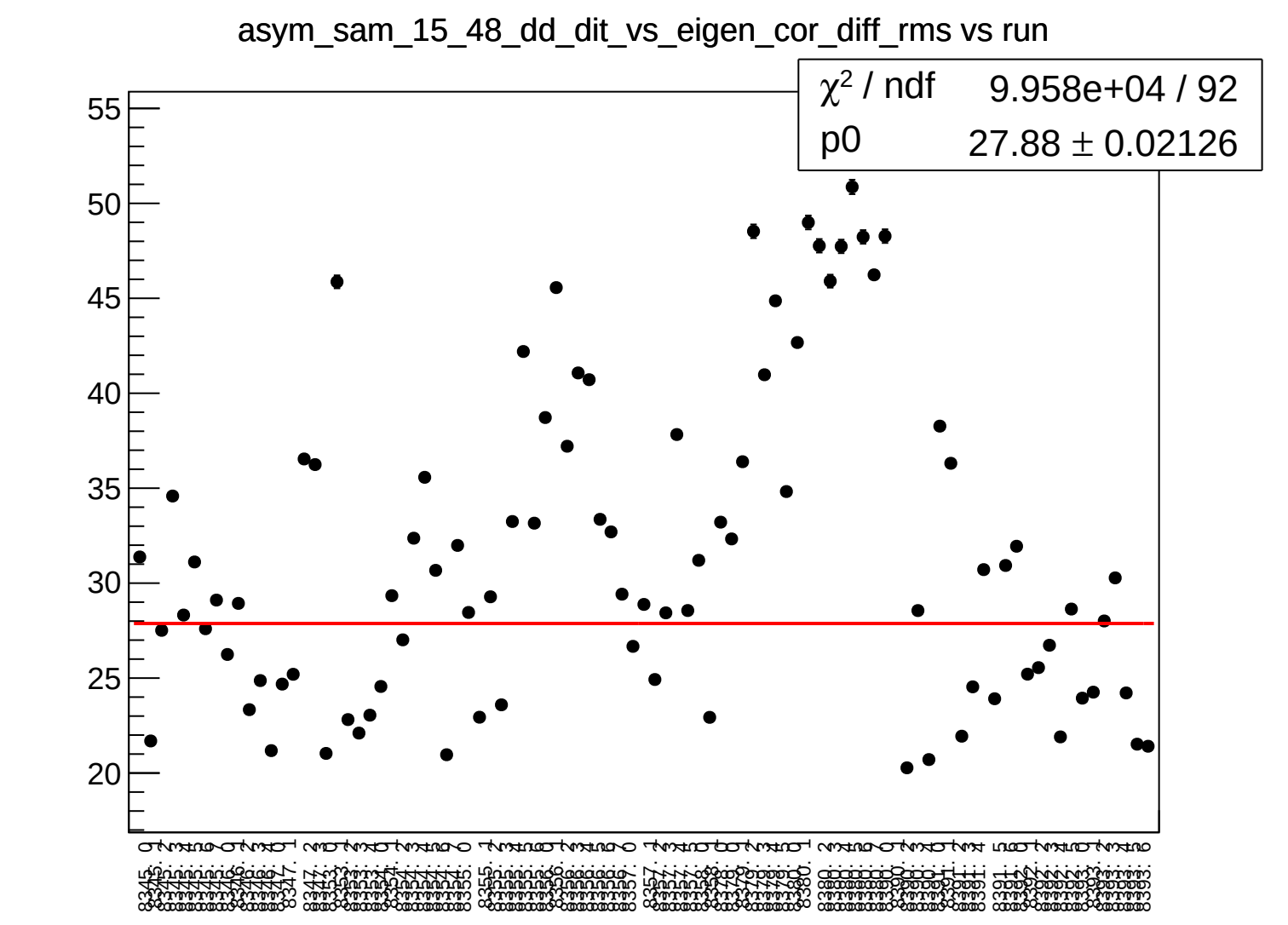

asym_sam_15_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 95.72 / 92
p0 0.1126 ± 0.03007
pull
Entries 93
Mean −209.1
Std Dev 0

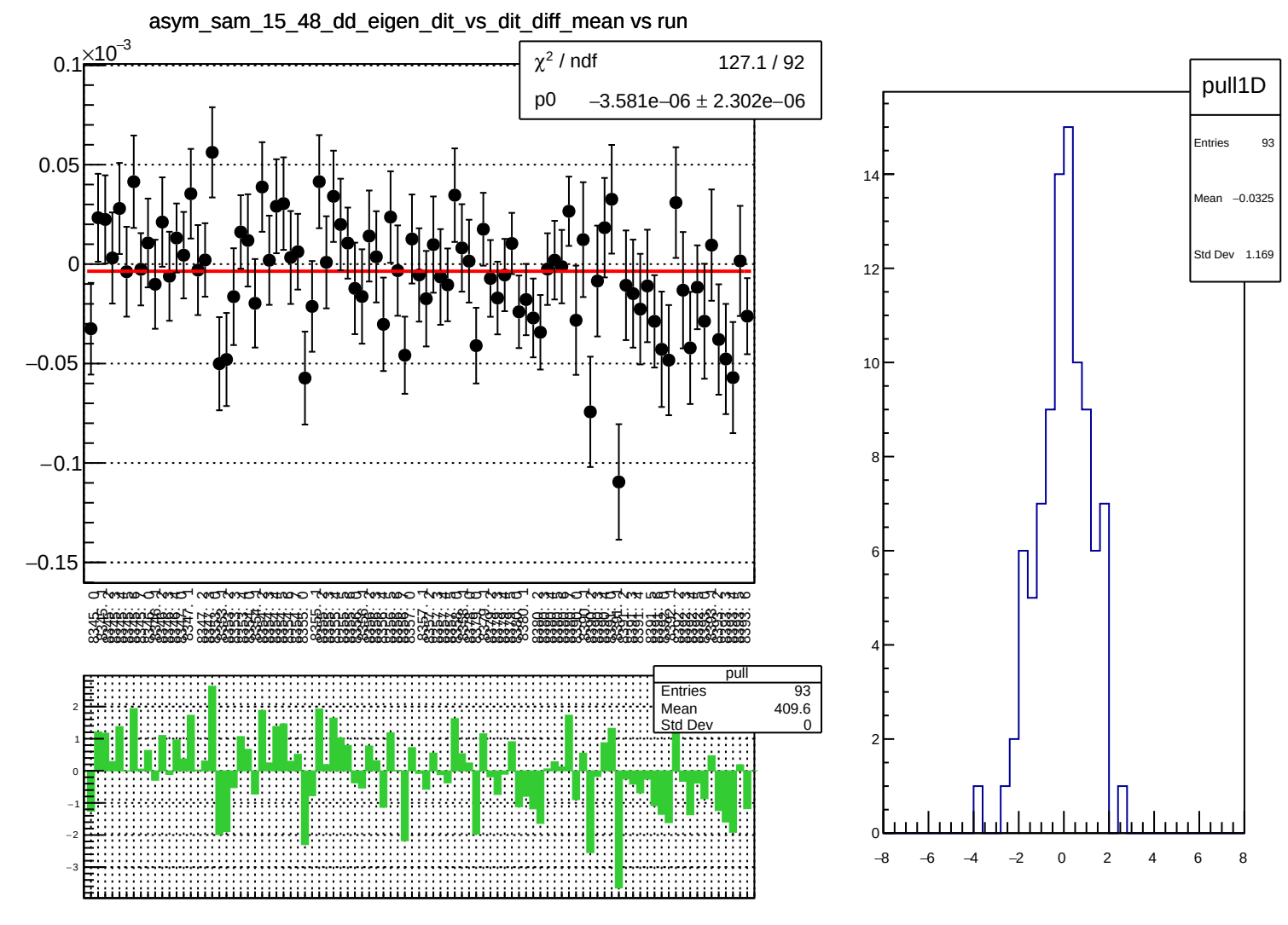

pull1D
Entries 93
Mean −0.008835
Std Dev 1.014

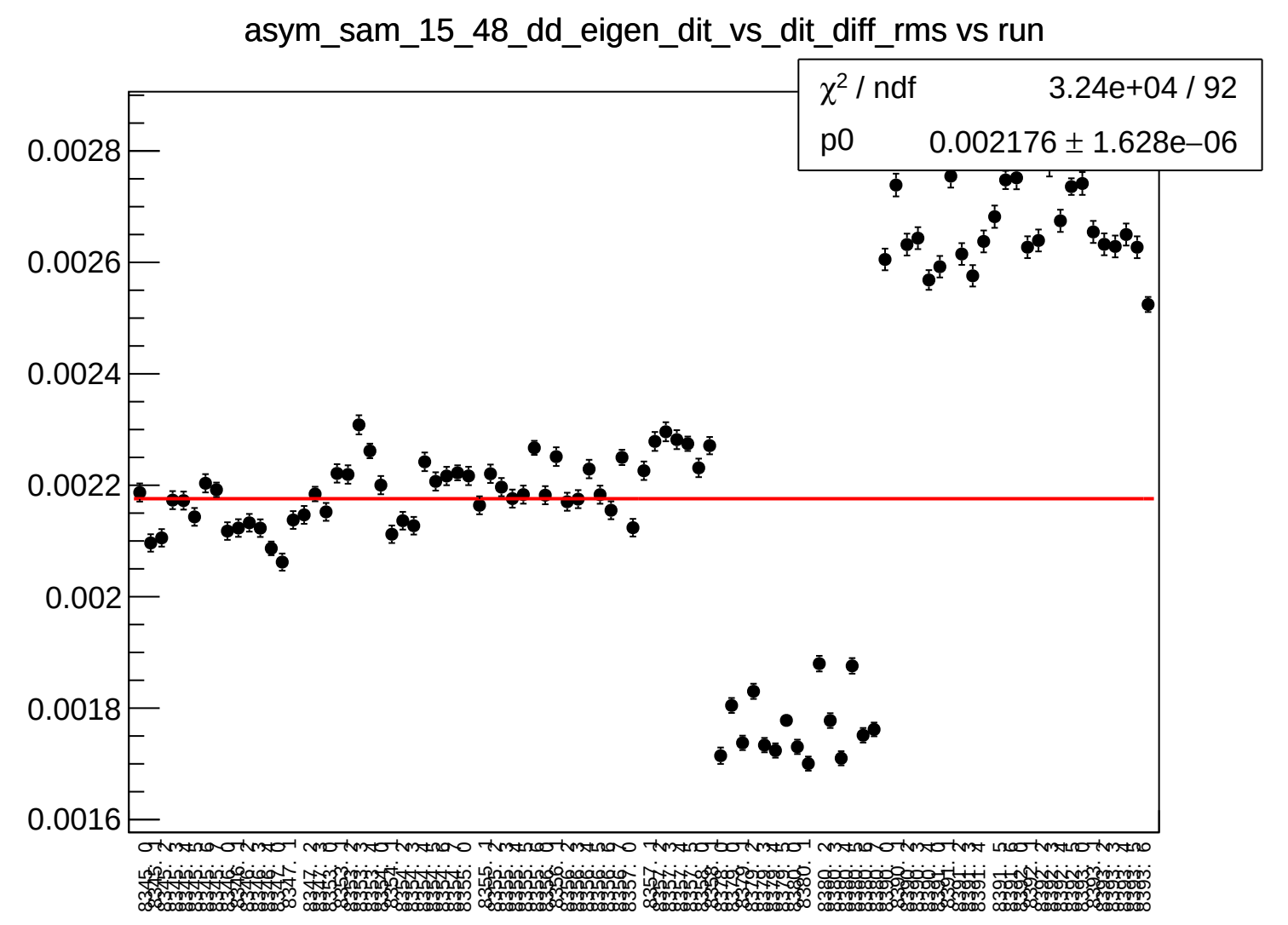

asym_sam_15_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9.958e+04 / 92
p0 27.88 ± 0.02126
55
50
45
40
35
30
25
20

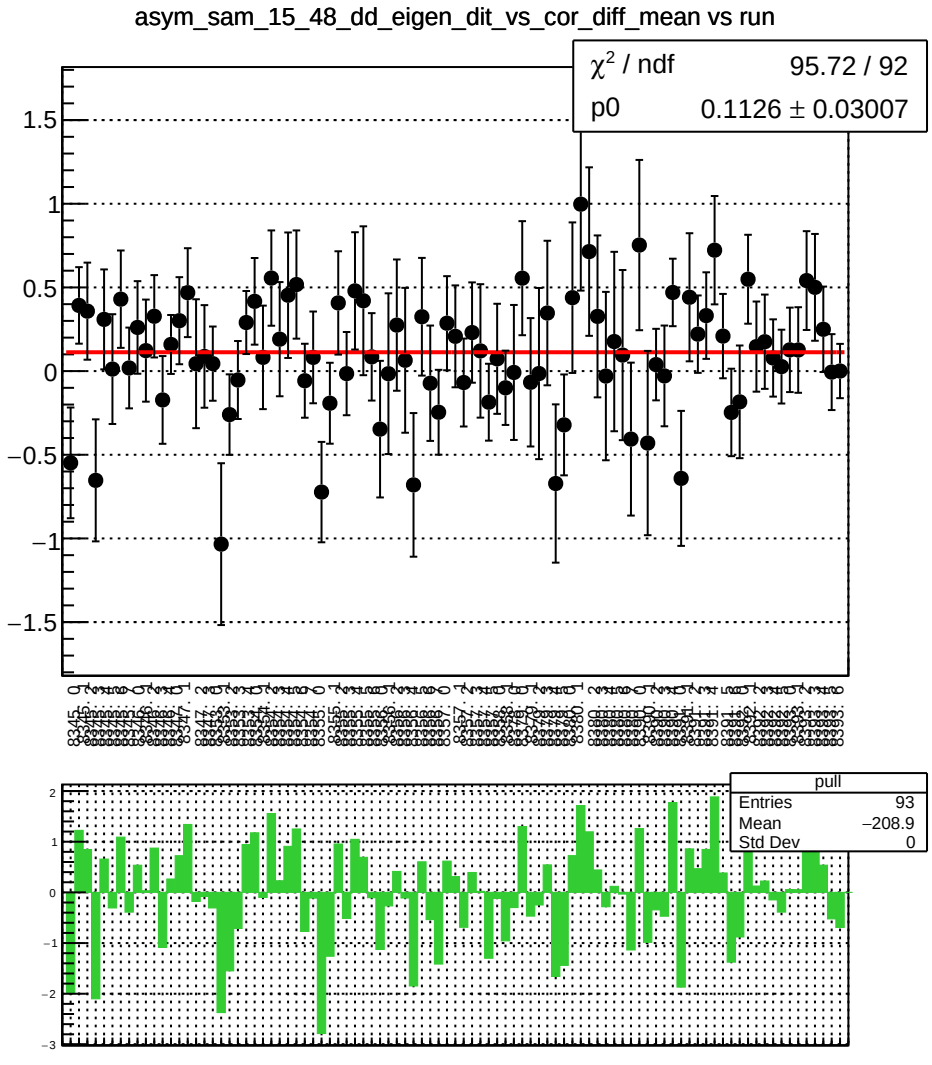

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.72 / 92
p0 0.1126 ± 0.03007
pull
Entries 93
Mean −209.1
Std Dev 0

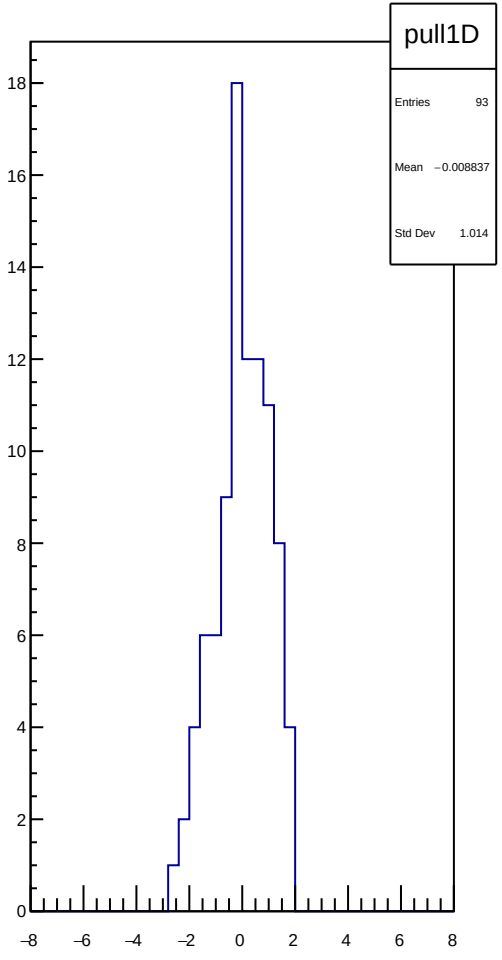

pull1D
Entries 93
Mean −0.008835
Std Dev 1.014

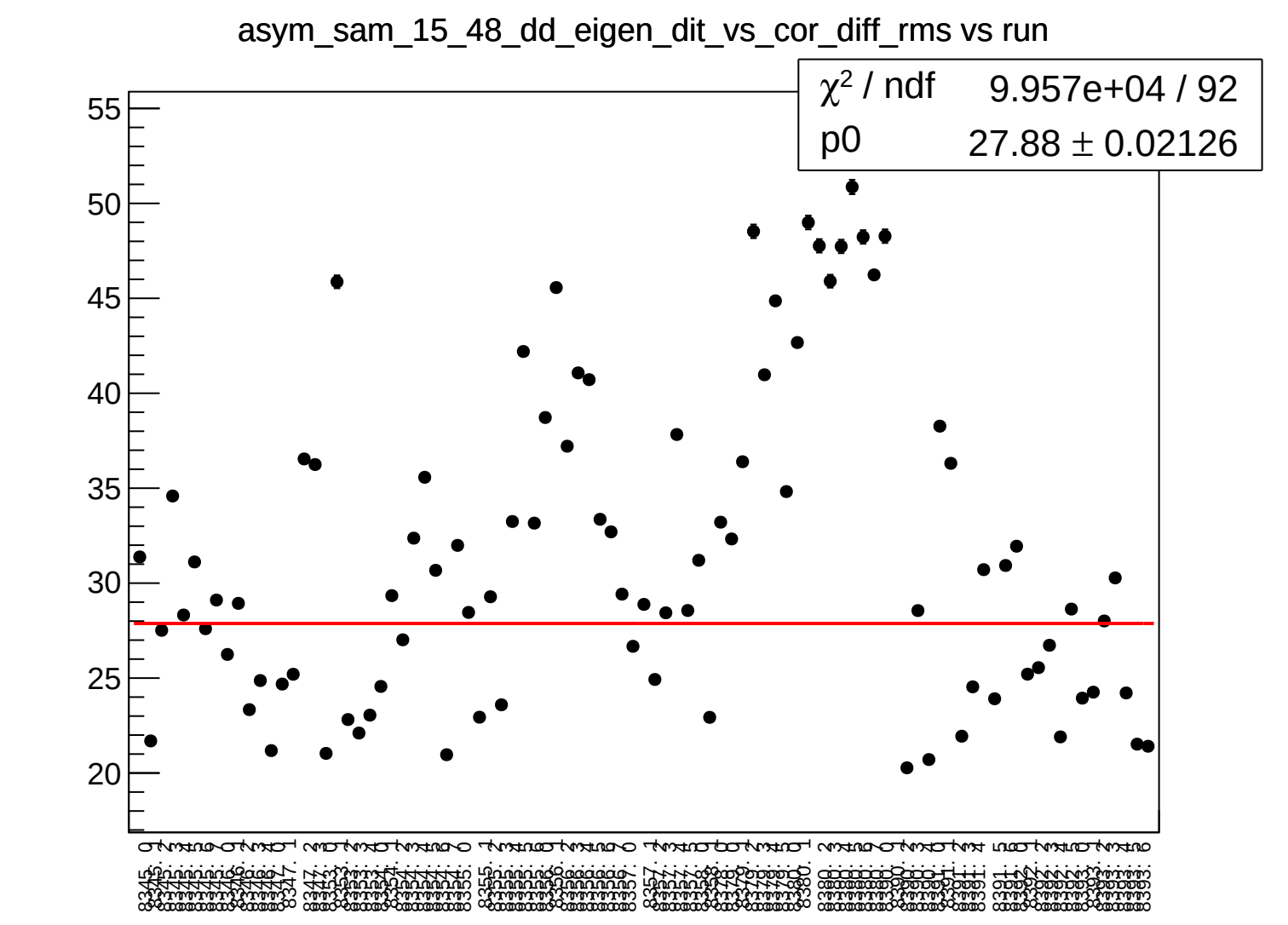

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.958e+04 / 92
p0 27.88 ± 0.02126
55
50
45
40
35
30
25
20

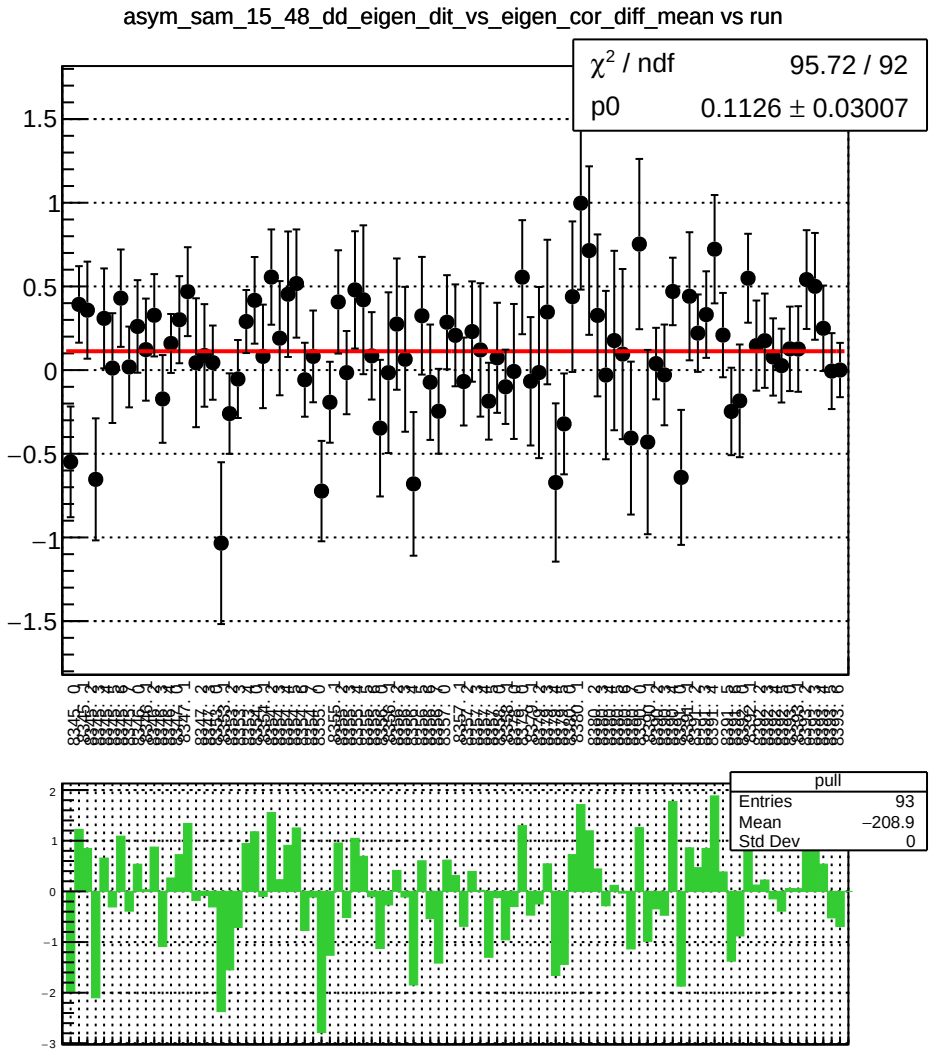

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 127.1 / 92
p0 −3.581e−06 ± 2.302e−06
×10⁻³
pull
Entries 93
Mean 409.6
Std Dev 0
pull1D
Entries 93
Mean −0.0325
Std Dev 1.169

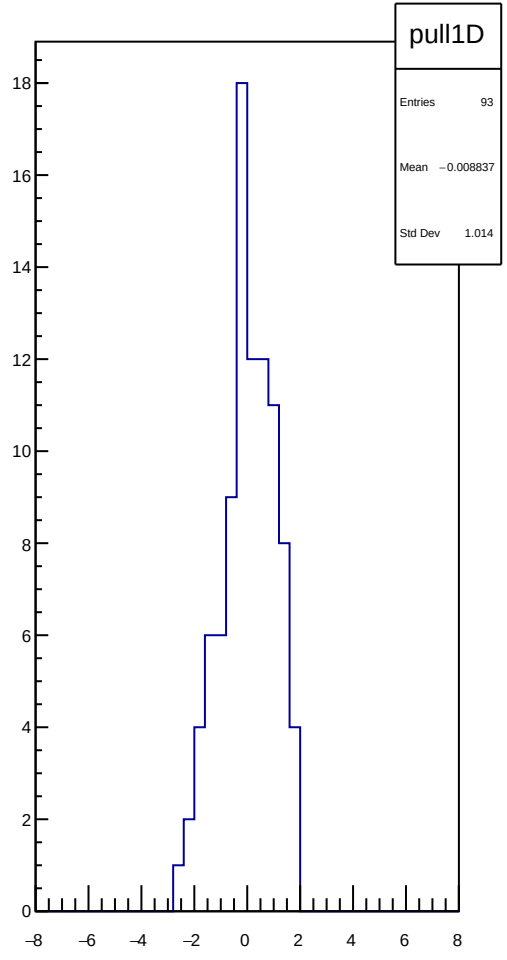

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.24e+04 / 92
p0 0.002176 ± 1.628e−06
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016

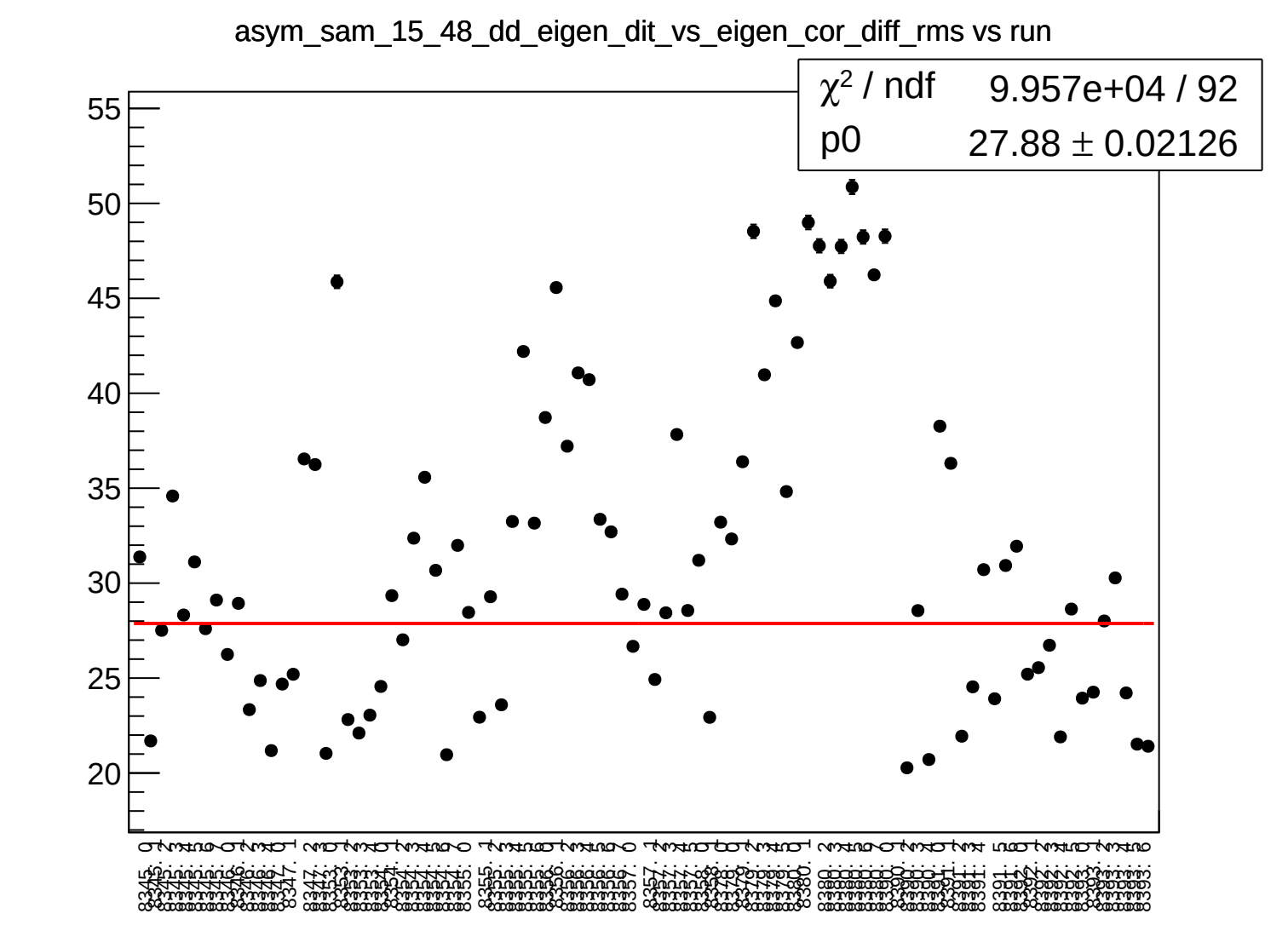

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.72 / 92
p0 0.1126 ± 0.03007
pull
Entries 93
Mean −208.9
Std Dev 0

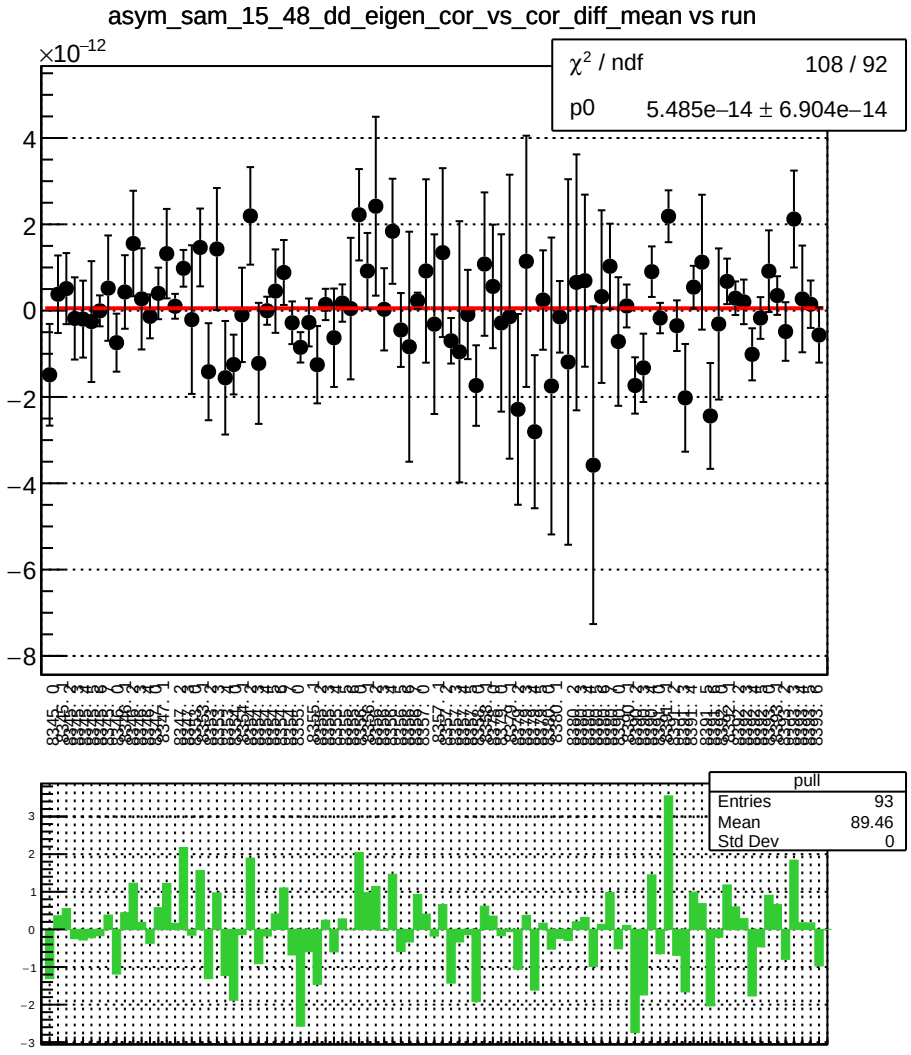

pull1D
Entries 93
Mean −0.008837
Std Dev 1.014

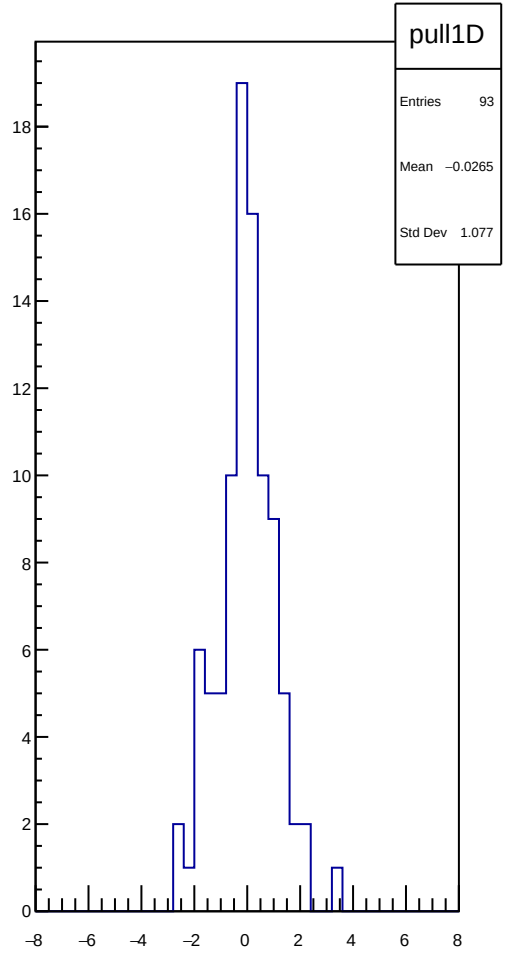

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.957e+04 / 92
p0 27.88 ± 0.02126
55
50
45
40
35
30
25
20

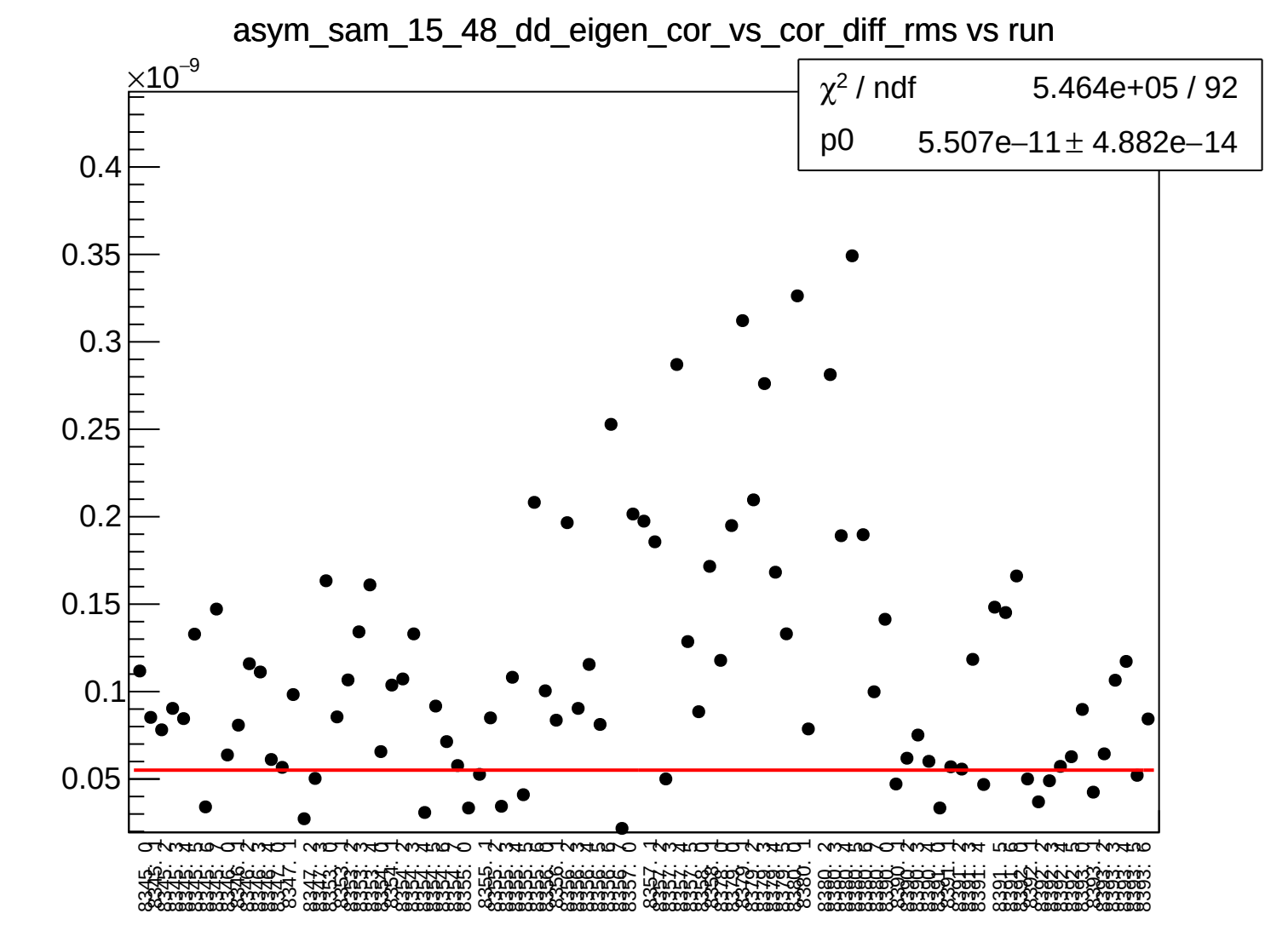

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.72 / 92
p0 0.1126 ± 0.03007
pull
Entries 93
Mean −208.9
Std Dev 0

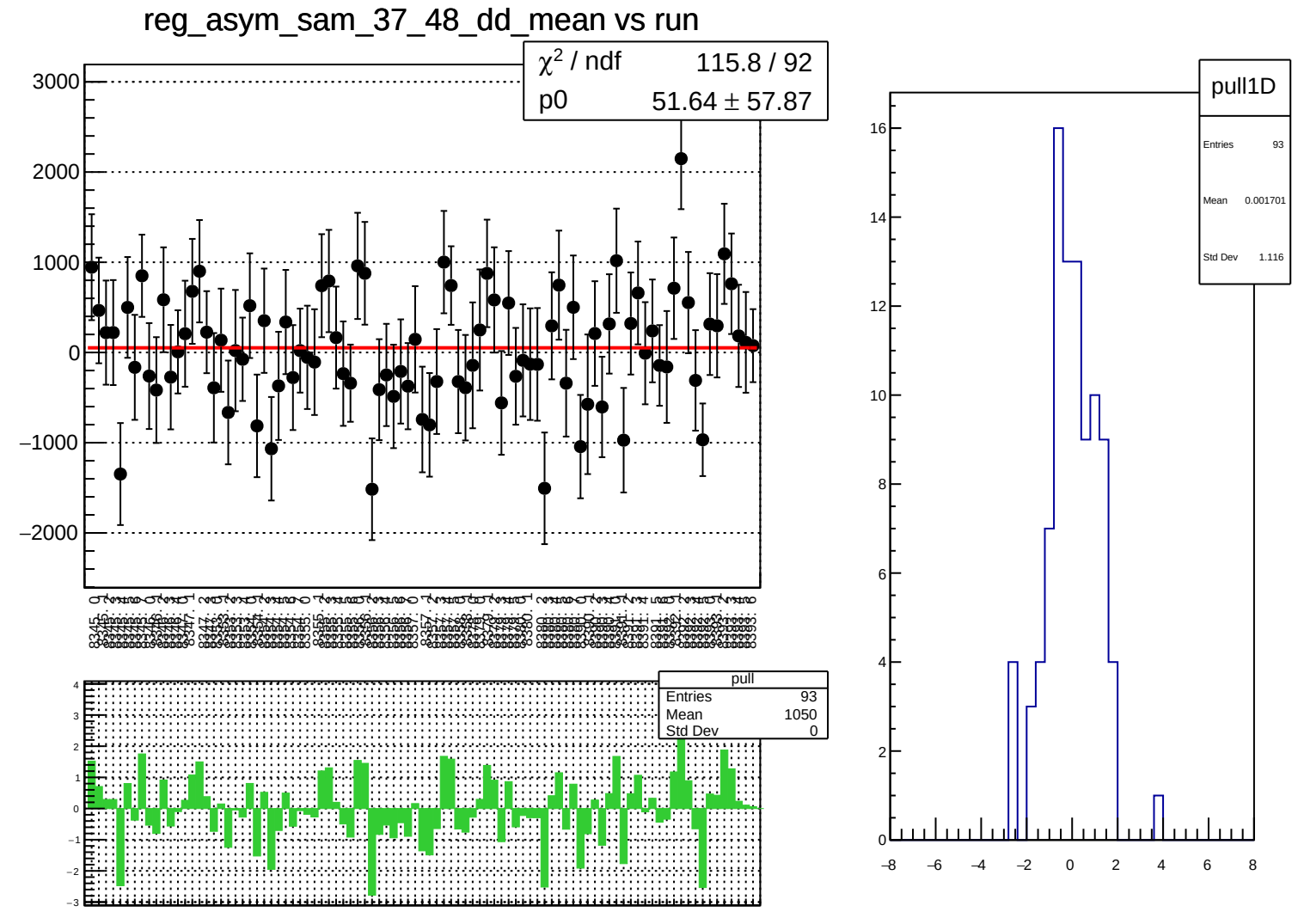

pull1D
Entries 93
Mean −0.008837
Std Dev 1.014

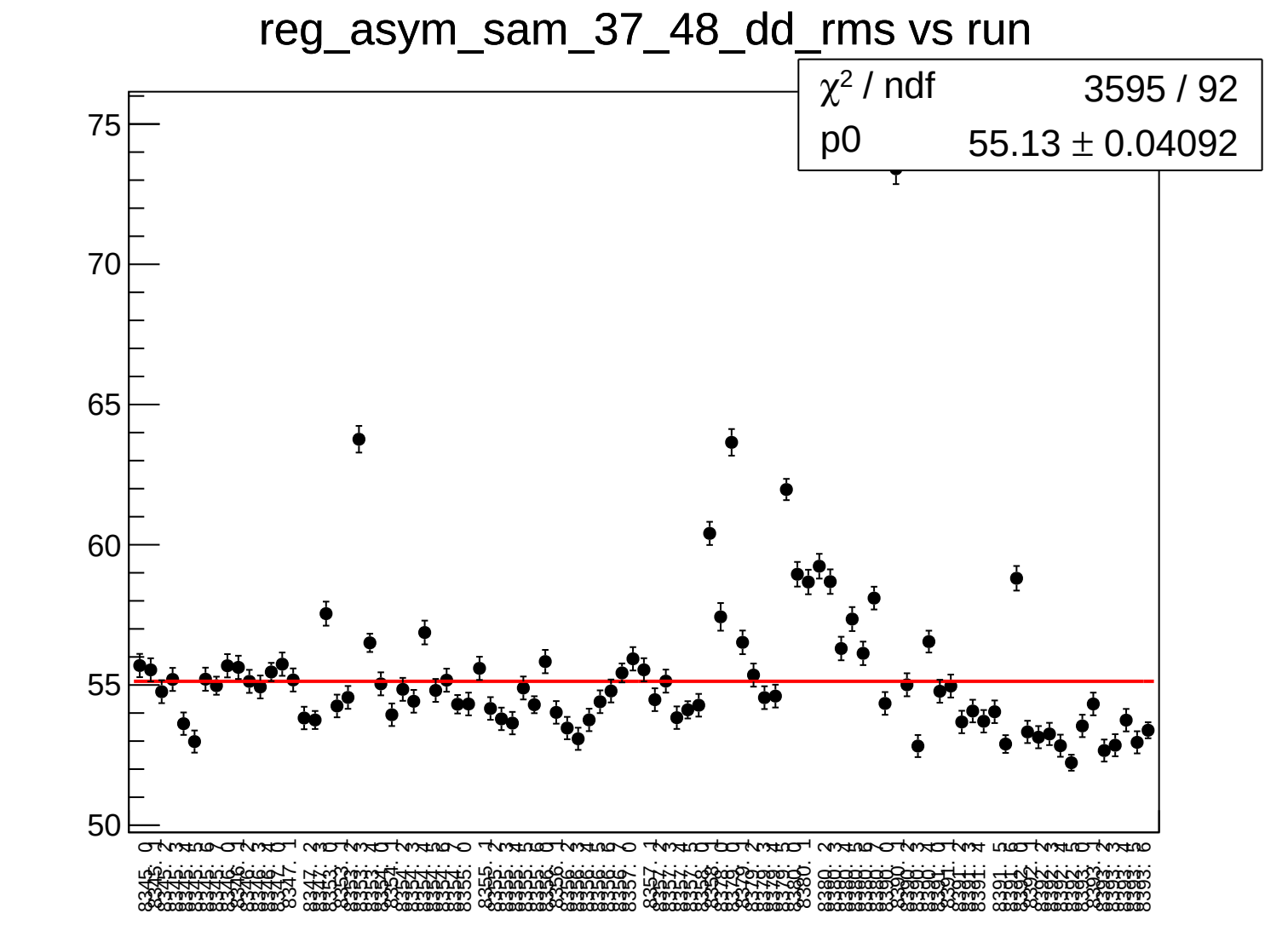

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.957e+04 / 92
p0 27.88 ± 0.02126
55
50
45
40
35
30
25
20

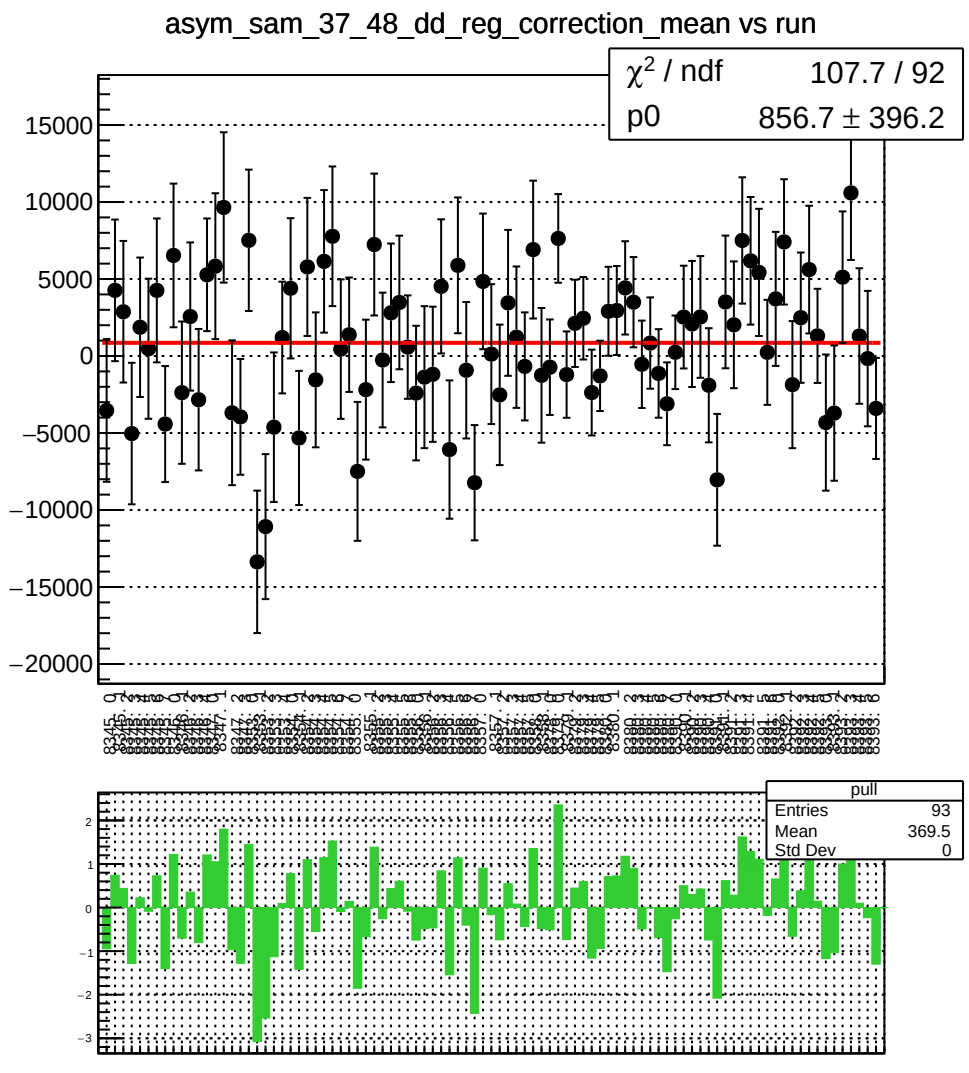

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 108 / 92
p0 5.485e−14 ± 6.904e−14
pull
Entries 93
Mean 89.46
Std Dev 0

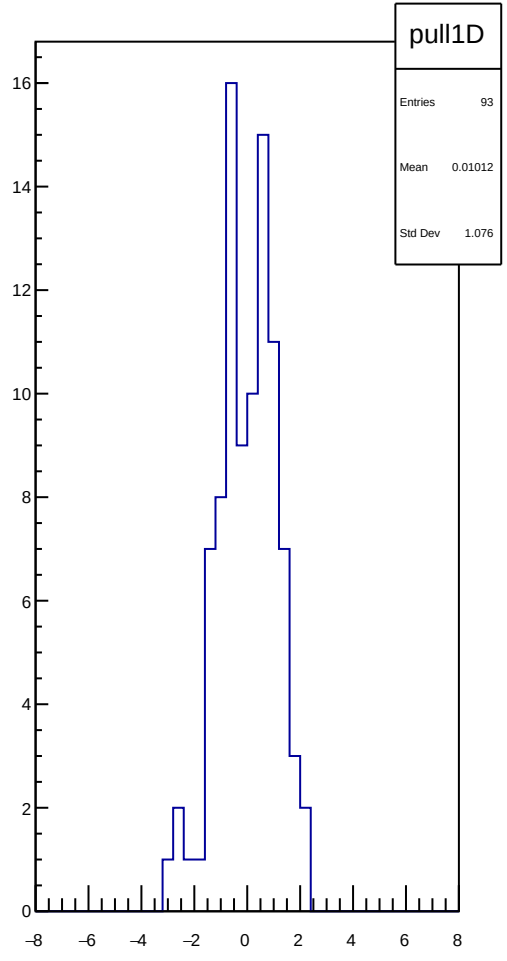

pull1D
Entries 93
Mean −0.0265
Std Dev 1.077

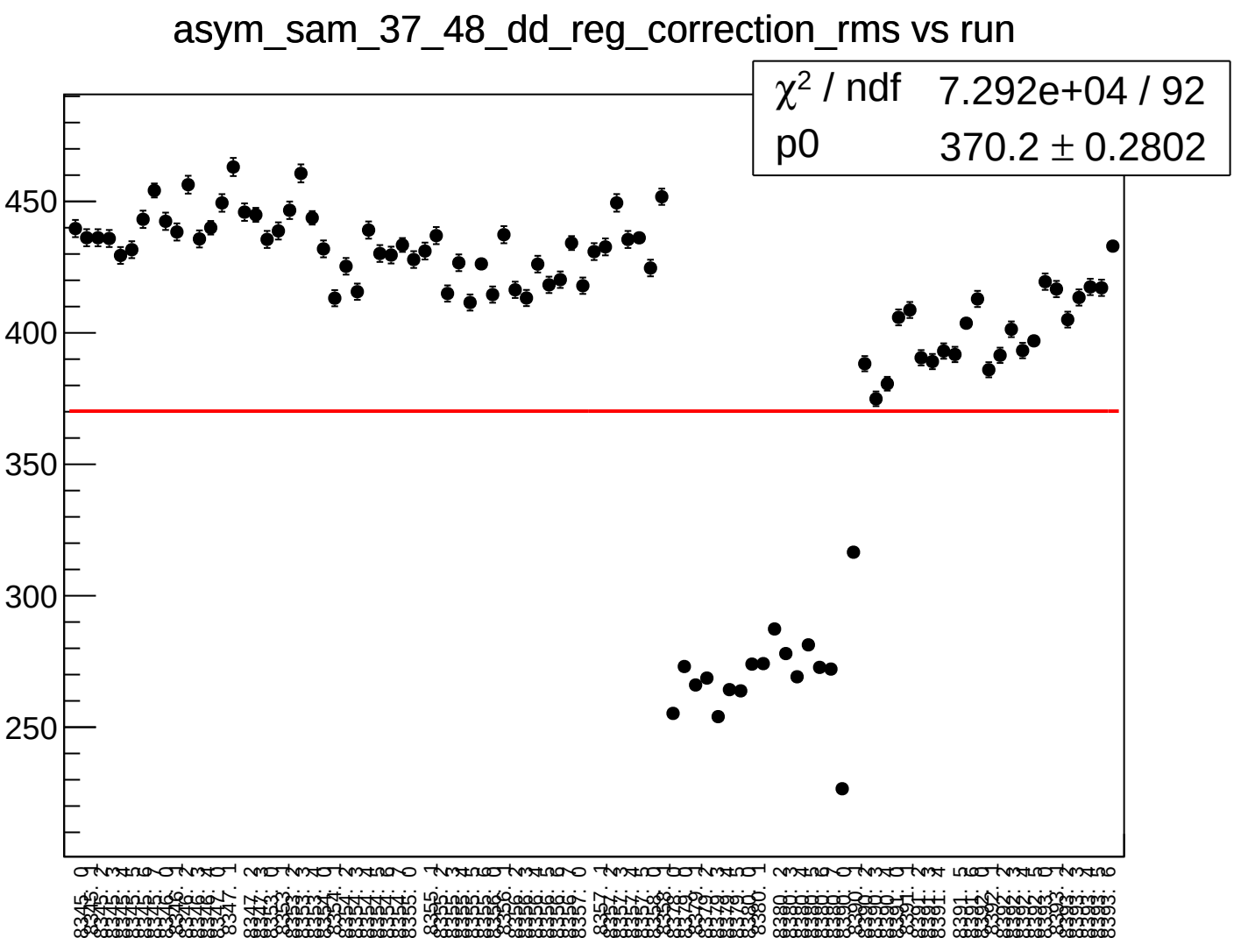

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.464e+05 / 92
p0 5.507e−11 ± 4.882e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

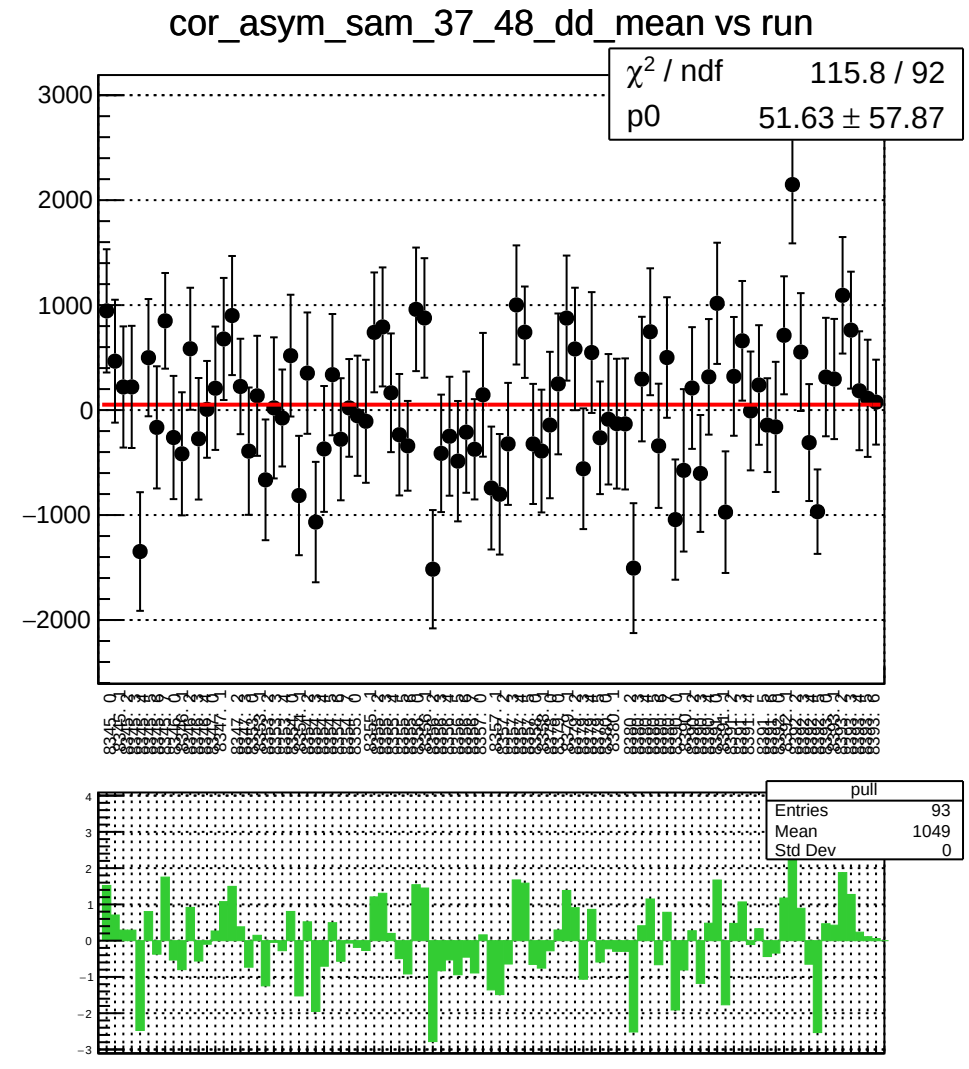

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 115.8 / 92
p0 51.64 ± 57.87
pull
Entries 93
Mean 1050
Std Dev 0
pull1D
Entries 93
Mean 0.001701
Std Dev 1.116

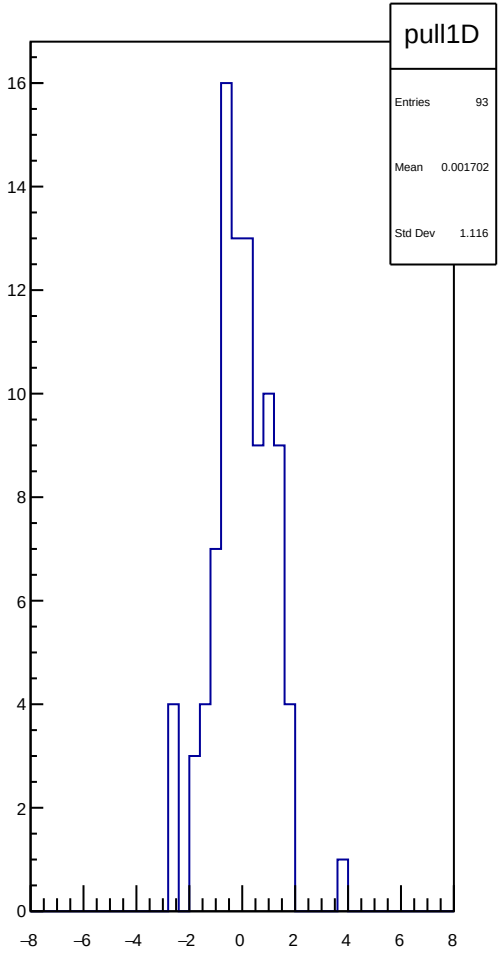

reg_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 3595 / 92
p0 55.13 ± 0.04092
75
70
65
60
55
50

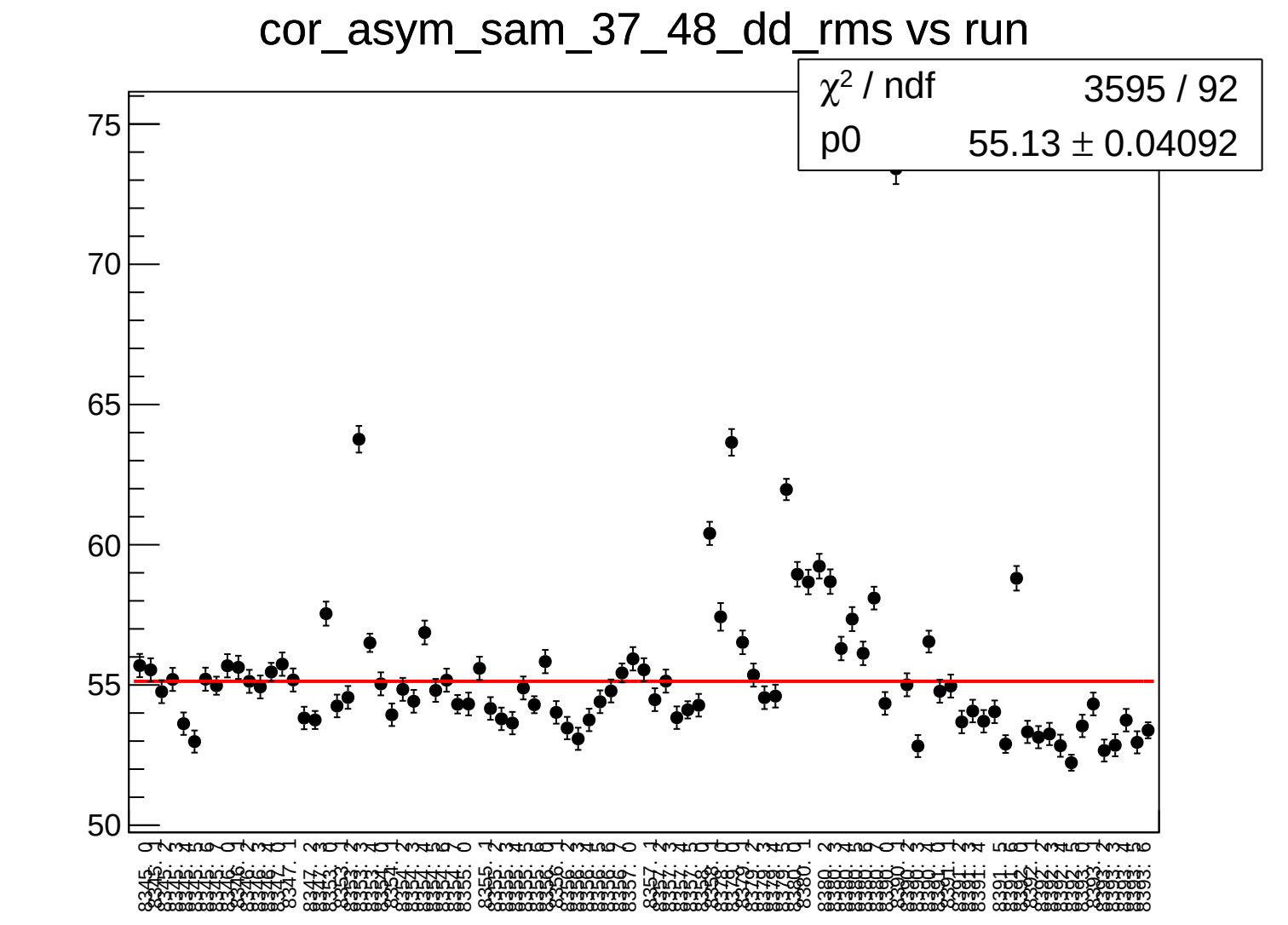

asym_sam_37_48_dd_reg_correction_mean vs run
χ² / ndf 107.7 / 92
p0 856.7 ± 396.2
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 93
Mean 369.5
Std Dev 0
2
1
0
−1
−2
−3

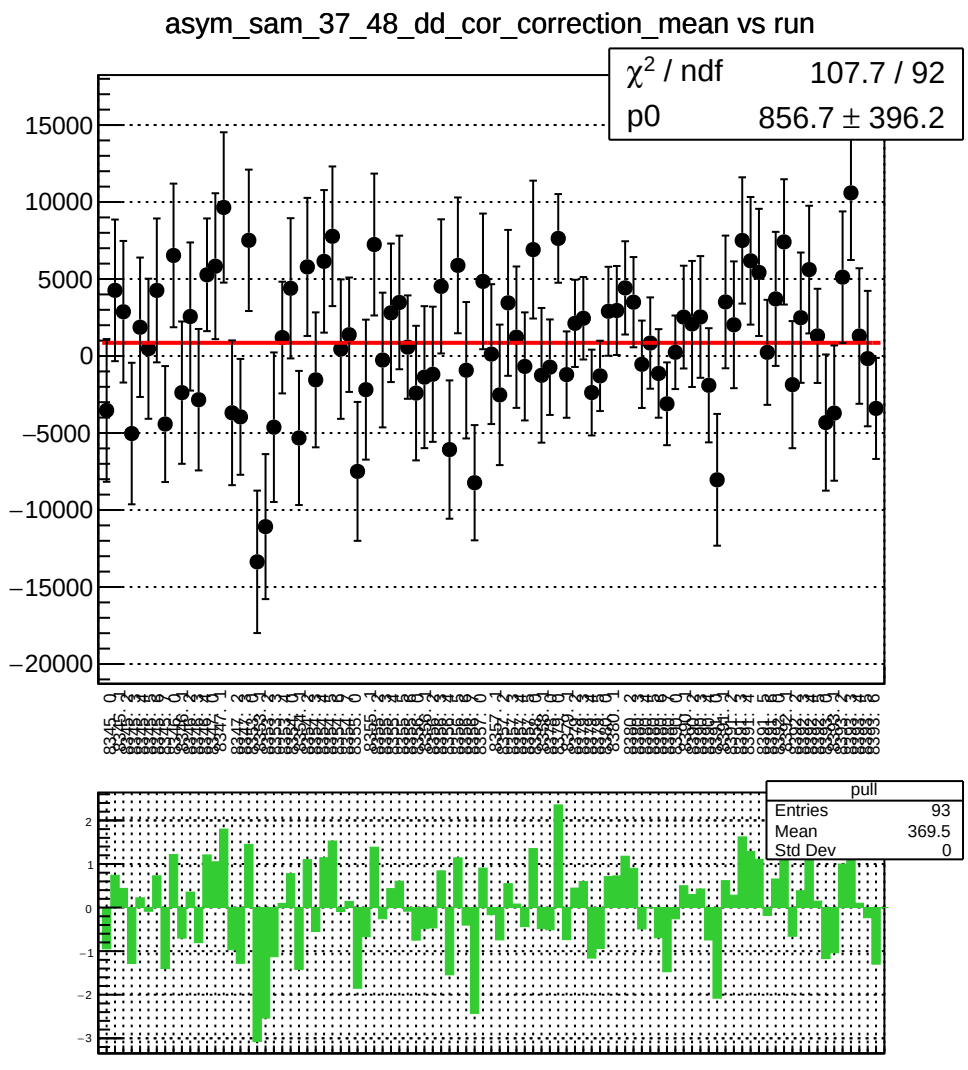

pull1D
Entries 93
Mean 0.01012
Std Dev 1.076
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

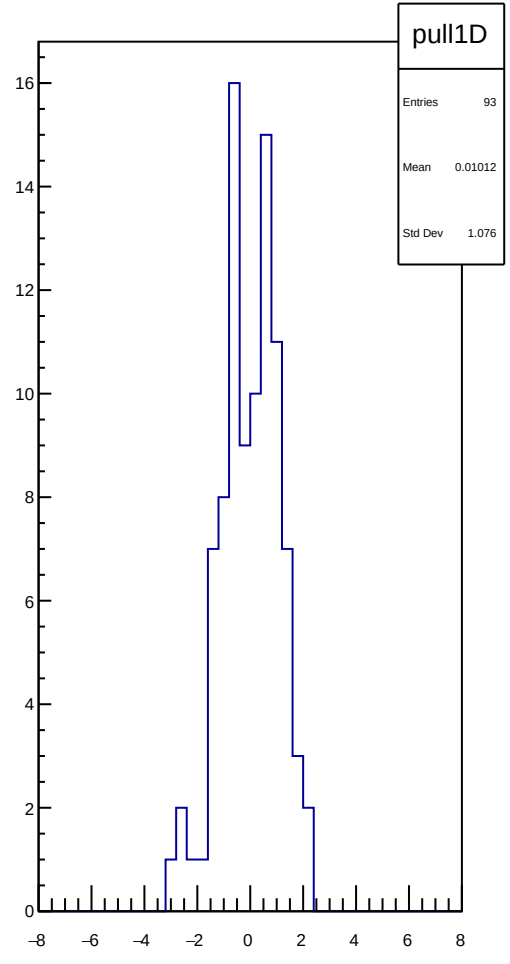

asym_sam_37_48_dd_reg_correction_rms vs run
χ² / ndf 7.292e+04 / 92
p0 370.2 ± 0.2802
450
400
350
300
250

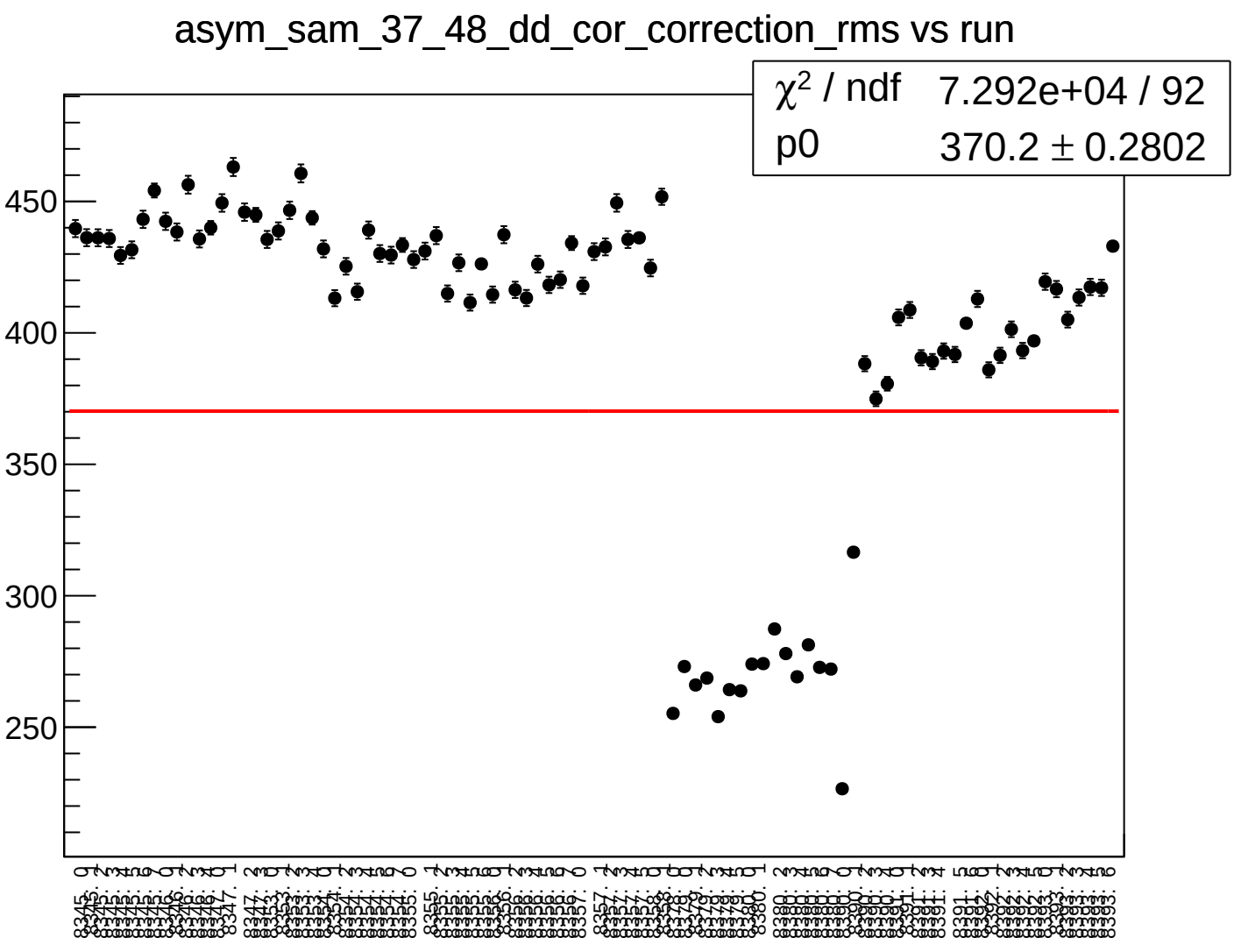

cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 115.8 / 92
p0 51.63 ± 57.87
pull
Entries 93
Mean 1049
Std Dev 0

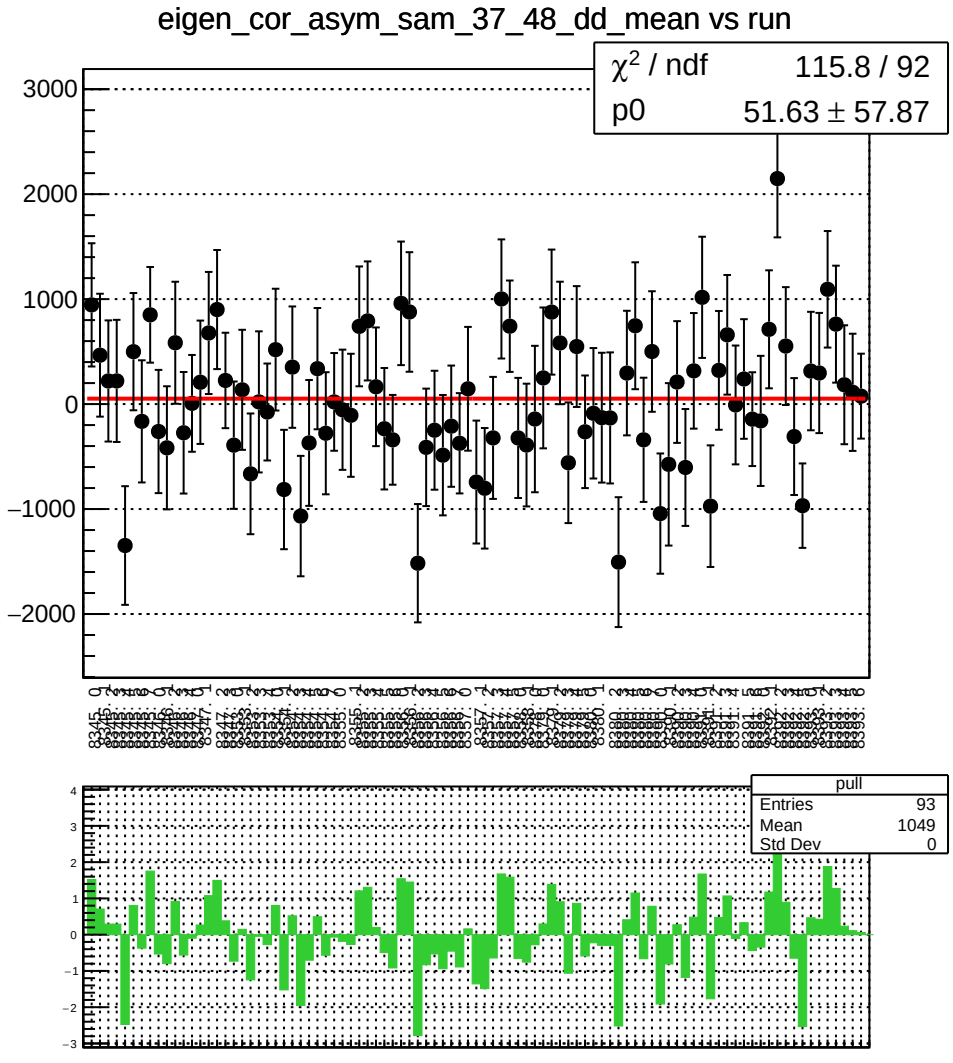

pull1D
Entries 93
Mean 0.001702
Std Dev 1.116

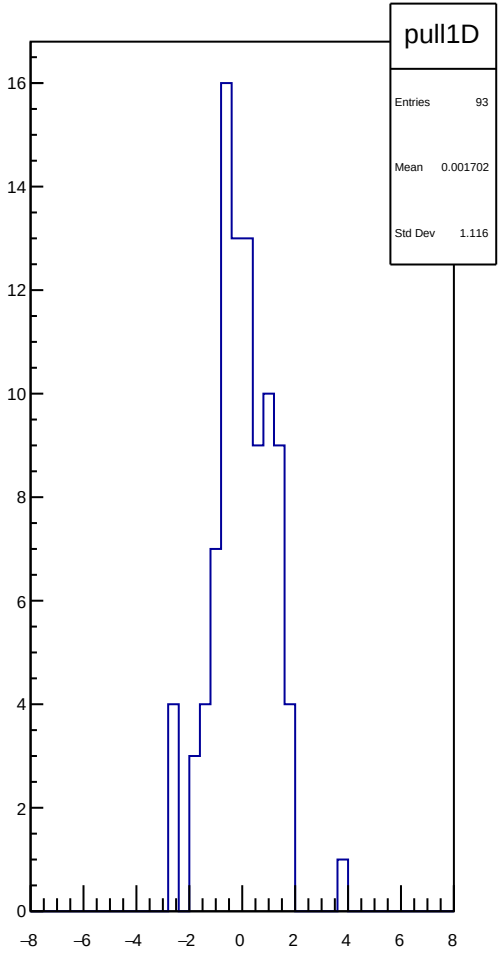

cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 3595 / 92
p0 55.13 ± 0.04092
75
70
65
60
55
50

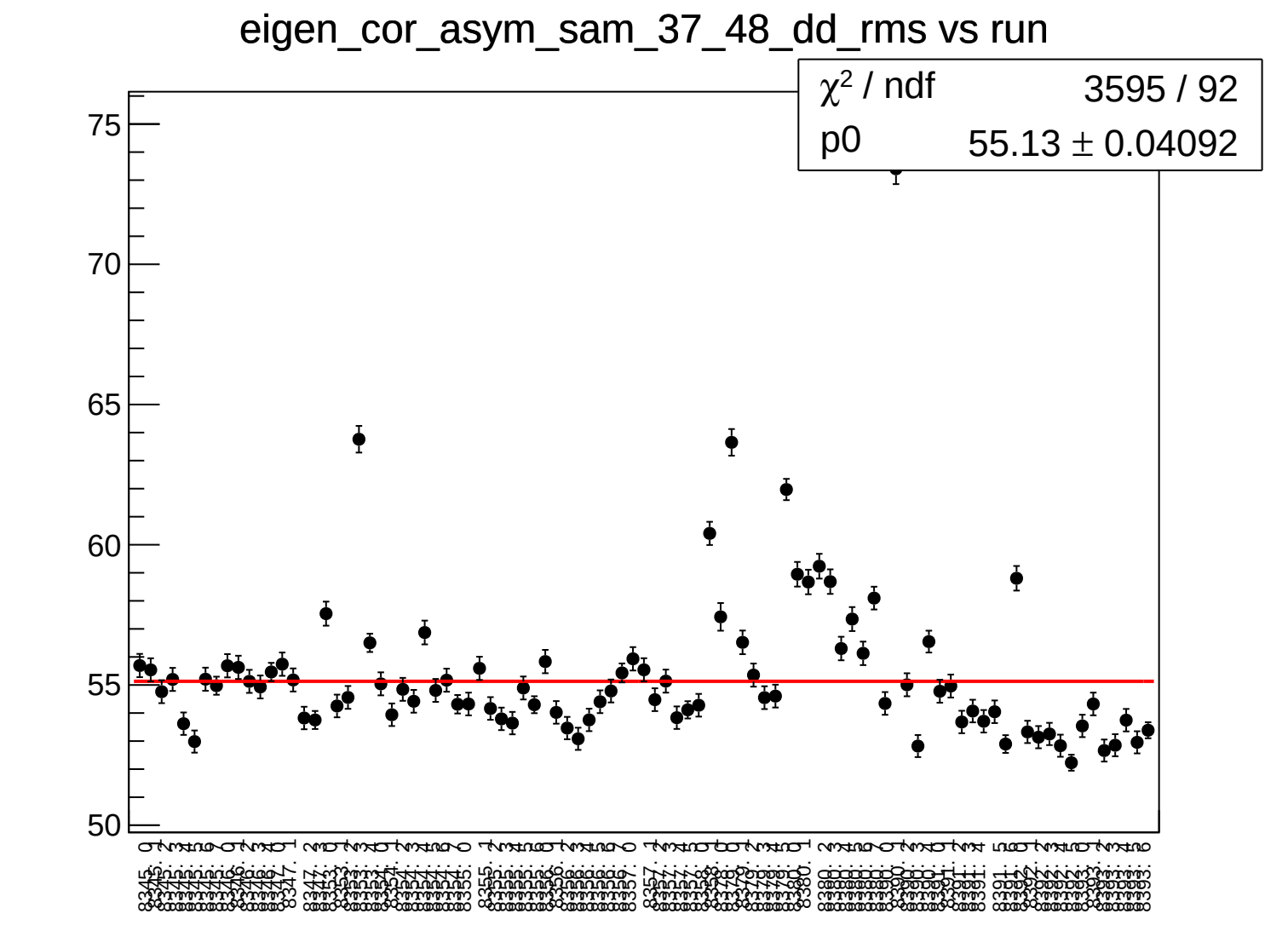

asym_sam_37_48_dd_cor_correction_mean vs run
χ² / ndf 107.7 / 92
p0 856.7 ± 396.2
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 93
Mean 369.5
Std Dev 0
2
1
0
−1
−2
−3

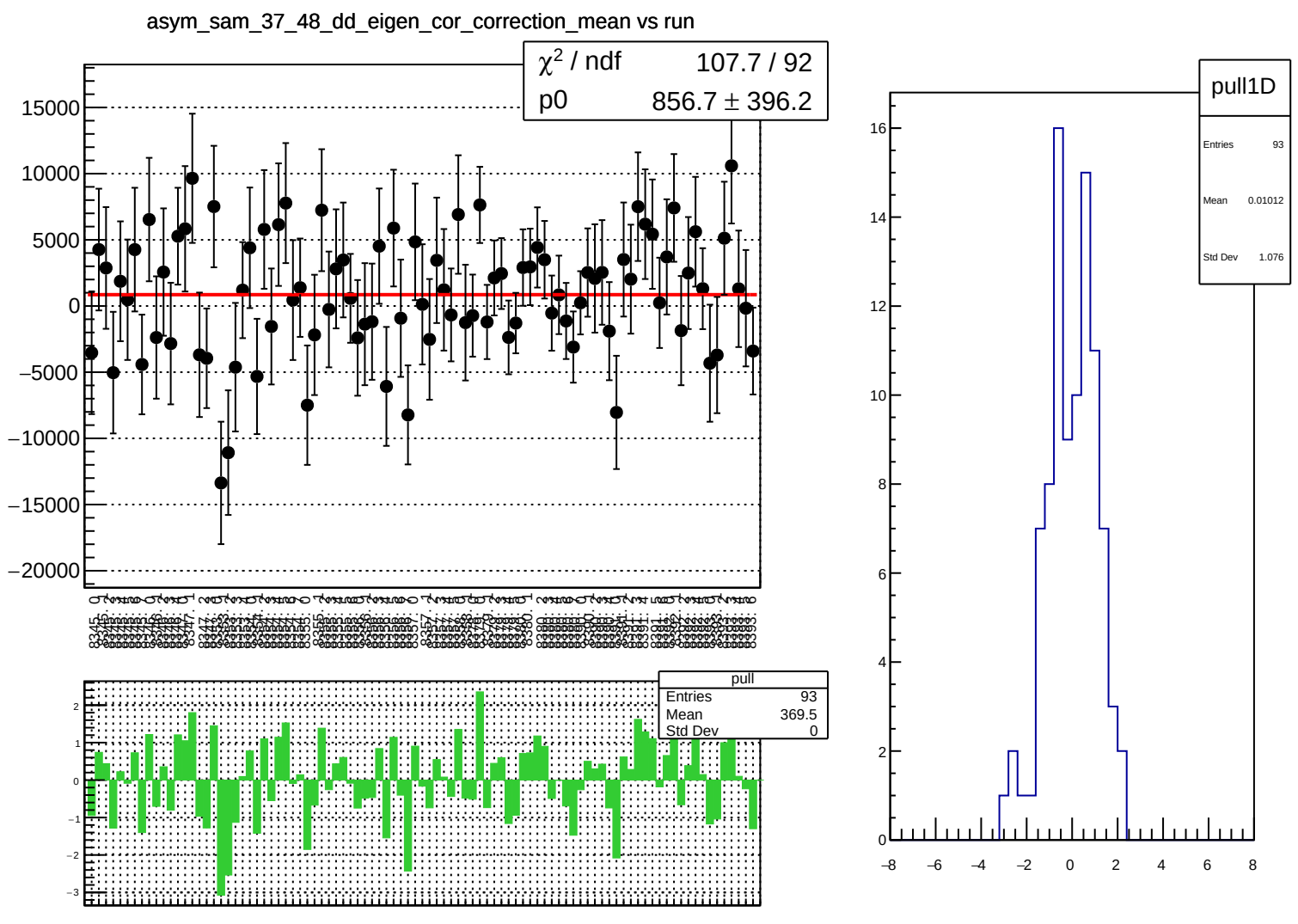

pull1D
Entries 93
Mean 0.01012
Std Dev 1.076
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

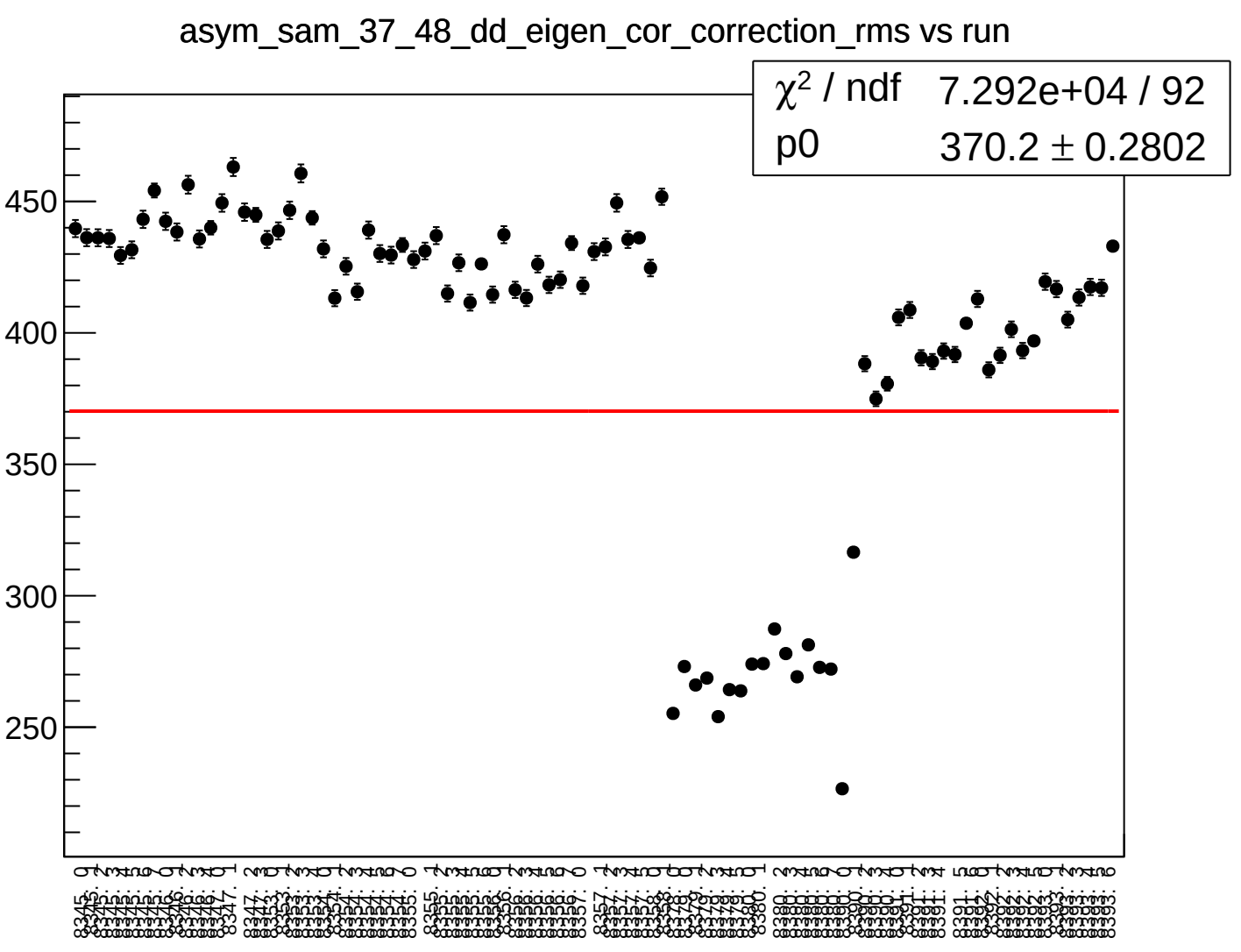

asym_sam_37_48_dd_cor_correction_rms vs run
χ^2 / ndf 7.292e+04 / 92
p0 370.2 ± 0.2802
450
400
350
300
250

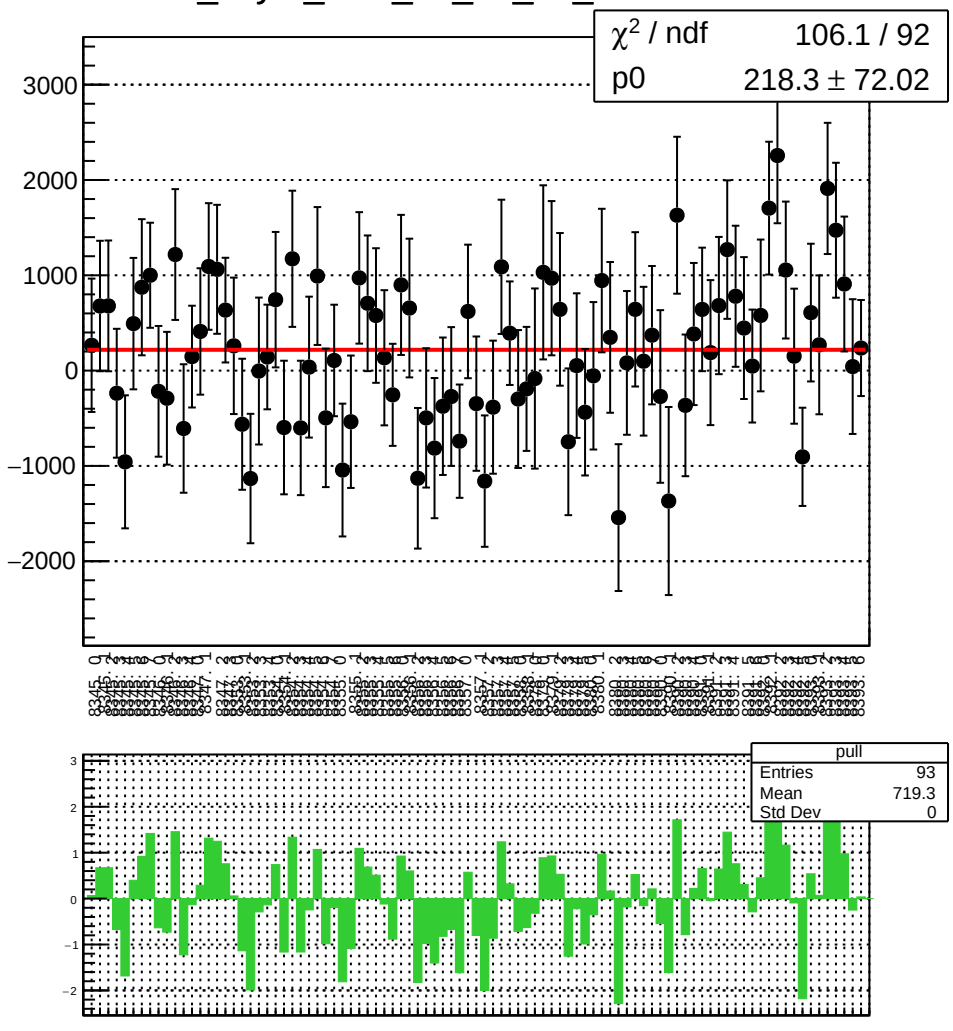

eigen_cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 115.8 / 92
p0 51.63 ± 57.87
pull
Entries 93
Mean 1049
Std Dev 0

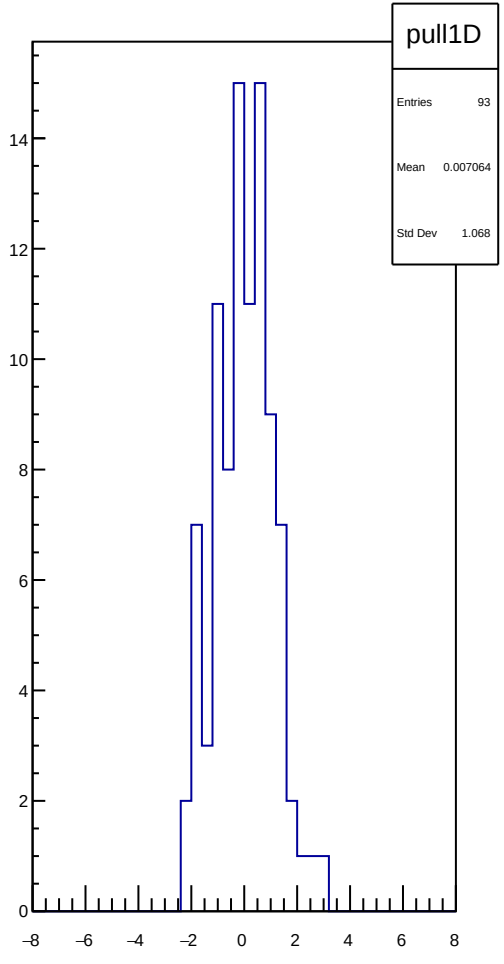

pull1D
Entries 93
Mean 0.001702
Std Dev 1.116

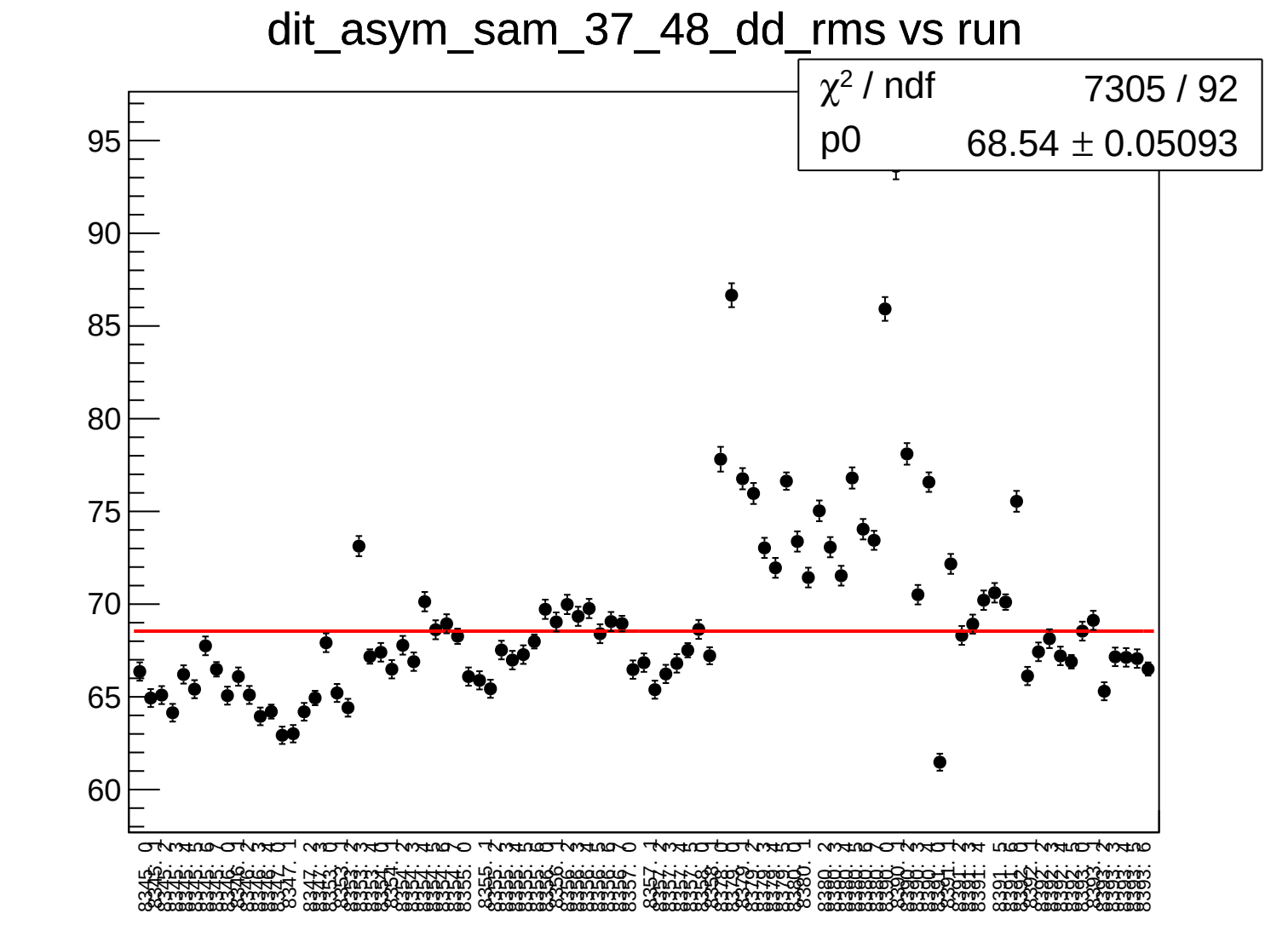

eigen_cor_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 3595 / 92
p0 55.13 ± 0.04092
75
70
65
60
55
50

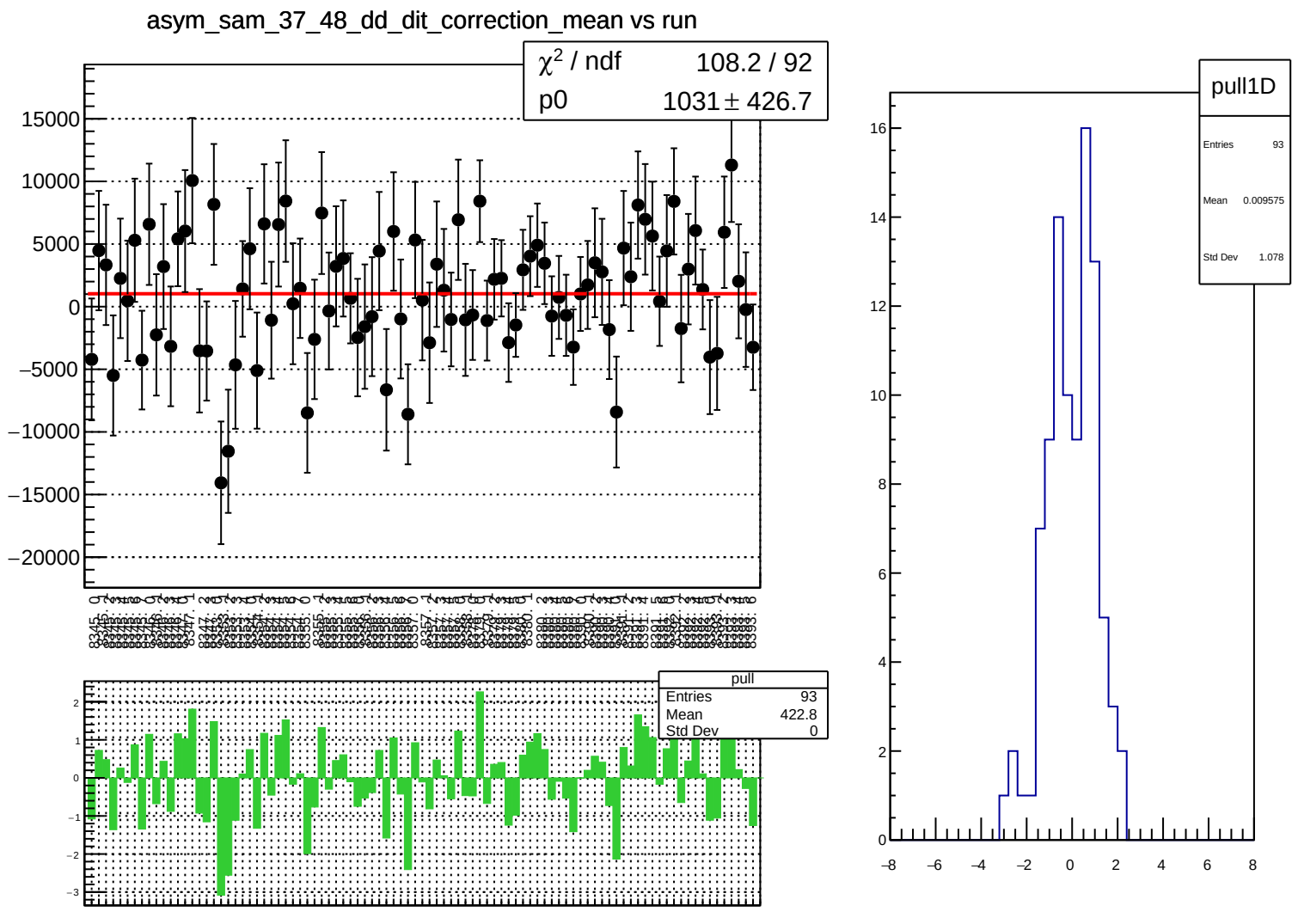

asym_sam_37_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 107.7 / 92
p0 856.7 ± 396.2
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 93
Mean 369.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.01012
Std Dev 1.076
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

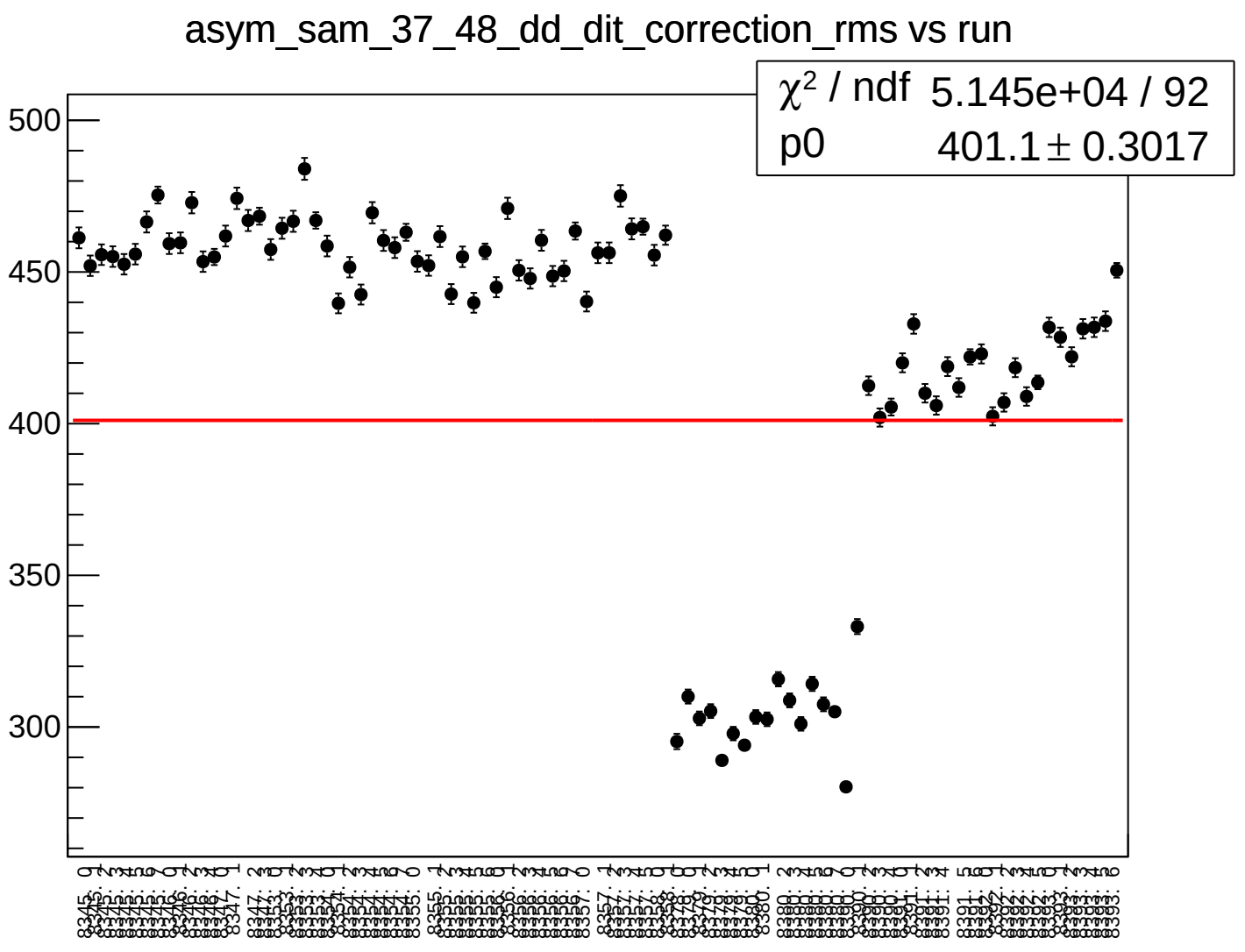

asym_sam_37_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 7.292e+04 / 92
p0 370.2 ± 0.2802
450
400
350
300
250

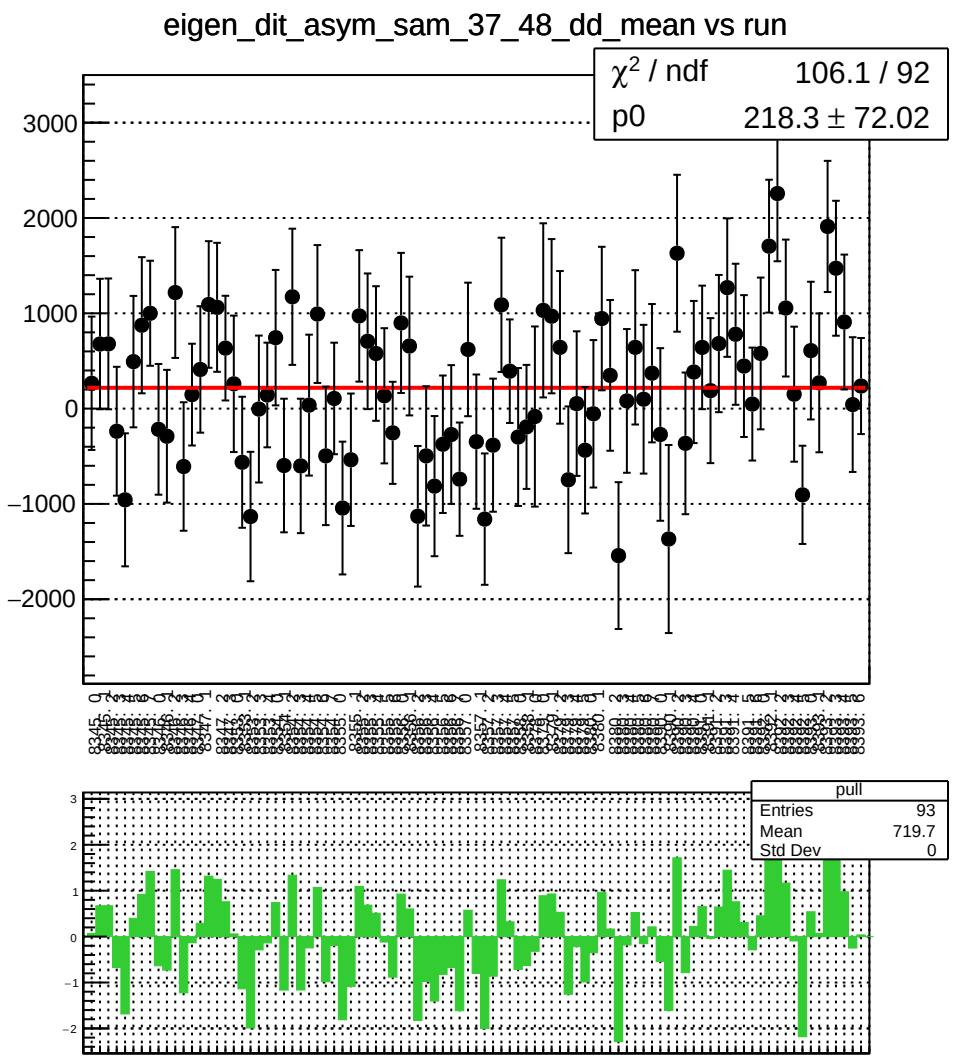

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 106.1 / 92
p0 218.3 ± 72.02
3000
2000
1000
0
−1000
−2000
pull
Entries 93
Mean 719.3
Std Dev 0
3
2
1
0
−1
−2

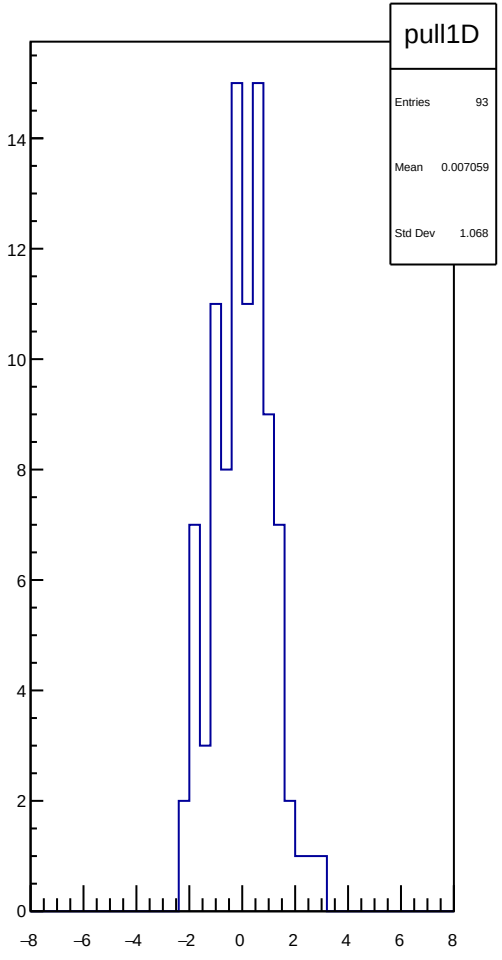

pull1D
Entries 93
Mean 0.007064
Std Dev 1.068
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

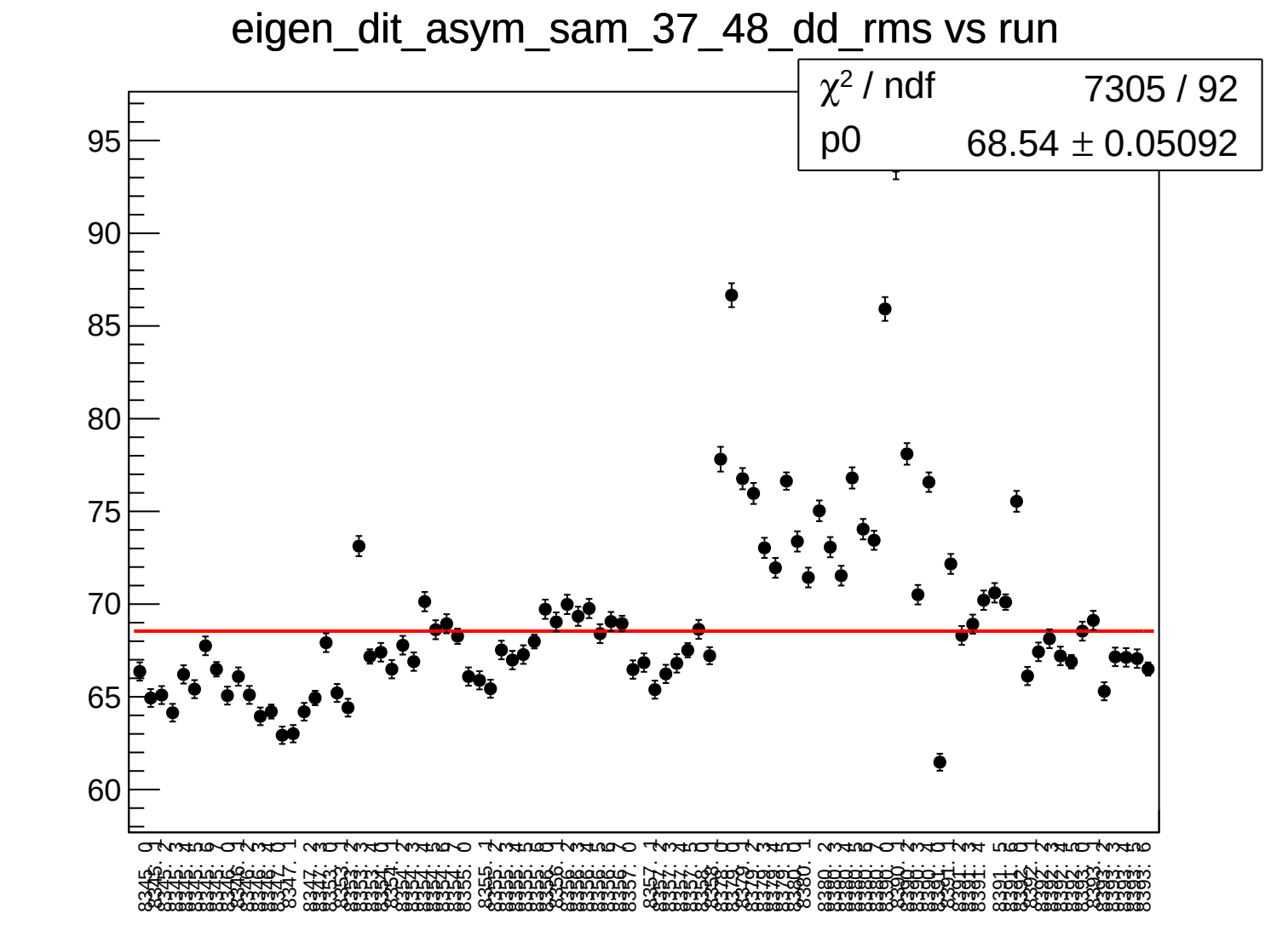

dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 7305 / 92
p0 68.54 ± 0.05093
95
90
85
80
75
70
65
60

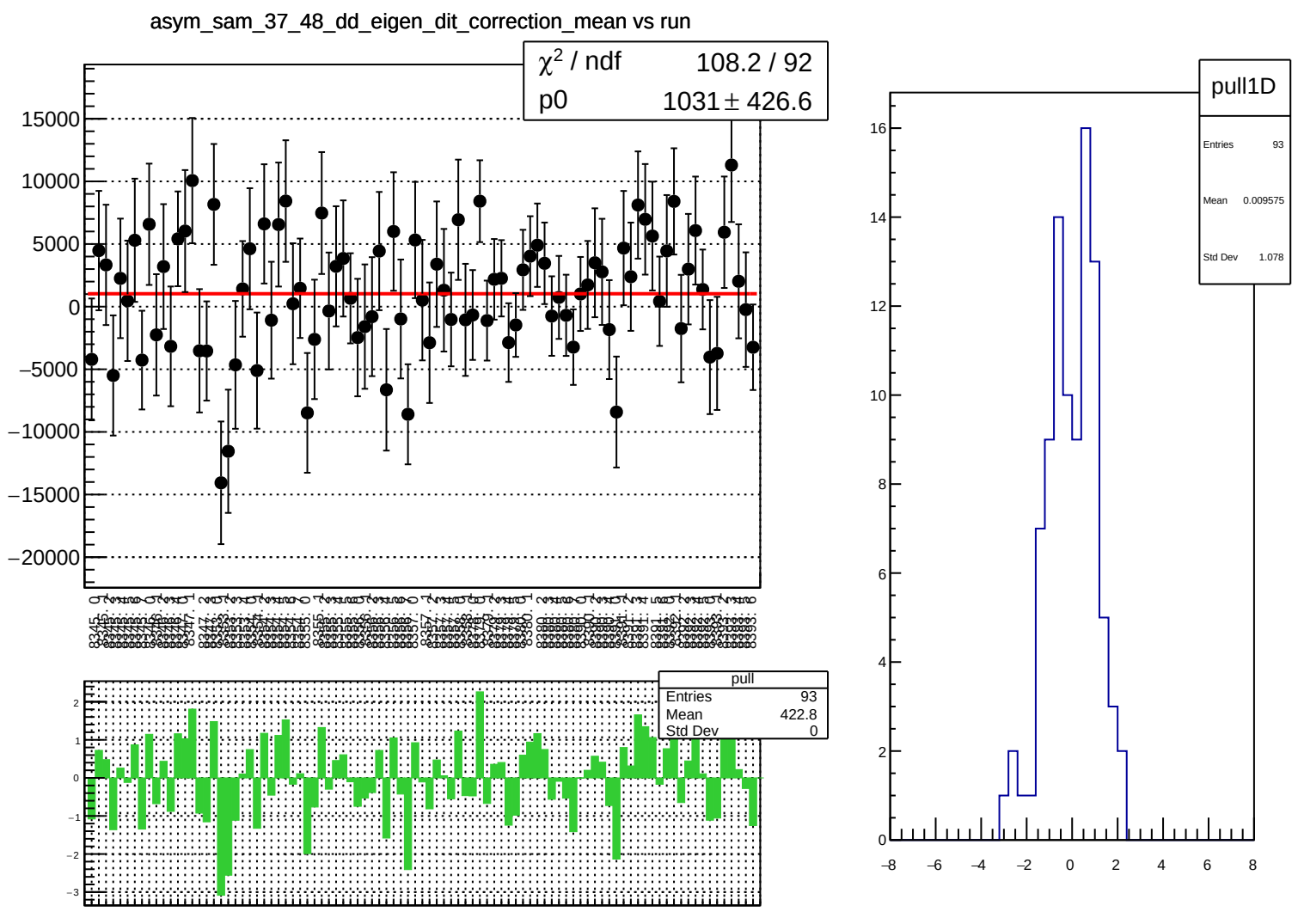

asym_sam_37_48_dd_dit_correction_mean vs run
χ² / ndf 108.2 / 92
p0 1031 ± 426.7
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 93
Mean 422.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.009575
Std Dev 1.078
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

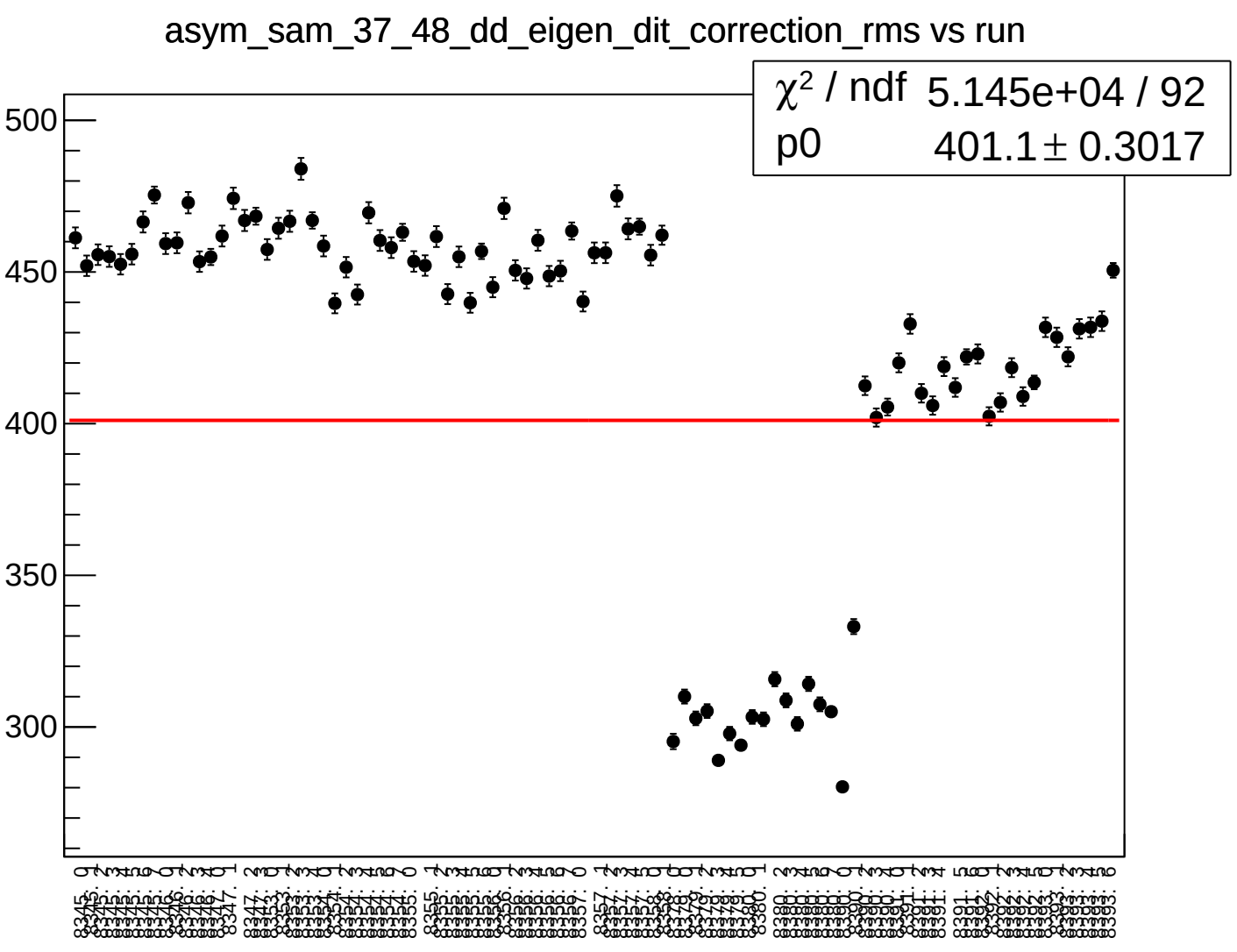

asym_sam_37_48_dd_dit_correction_rms vs run
χ² / ndf 5.145e+04 / 92
p0 401.1 ± 0.3017
500
450
400
350
300

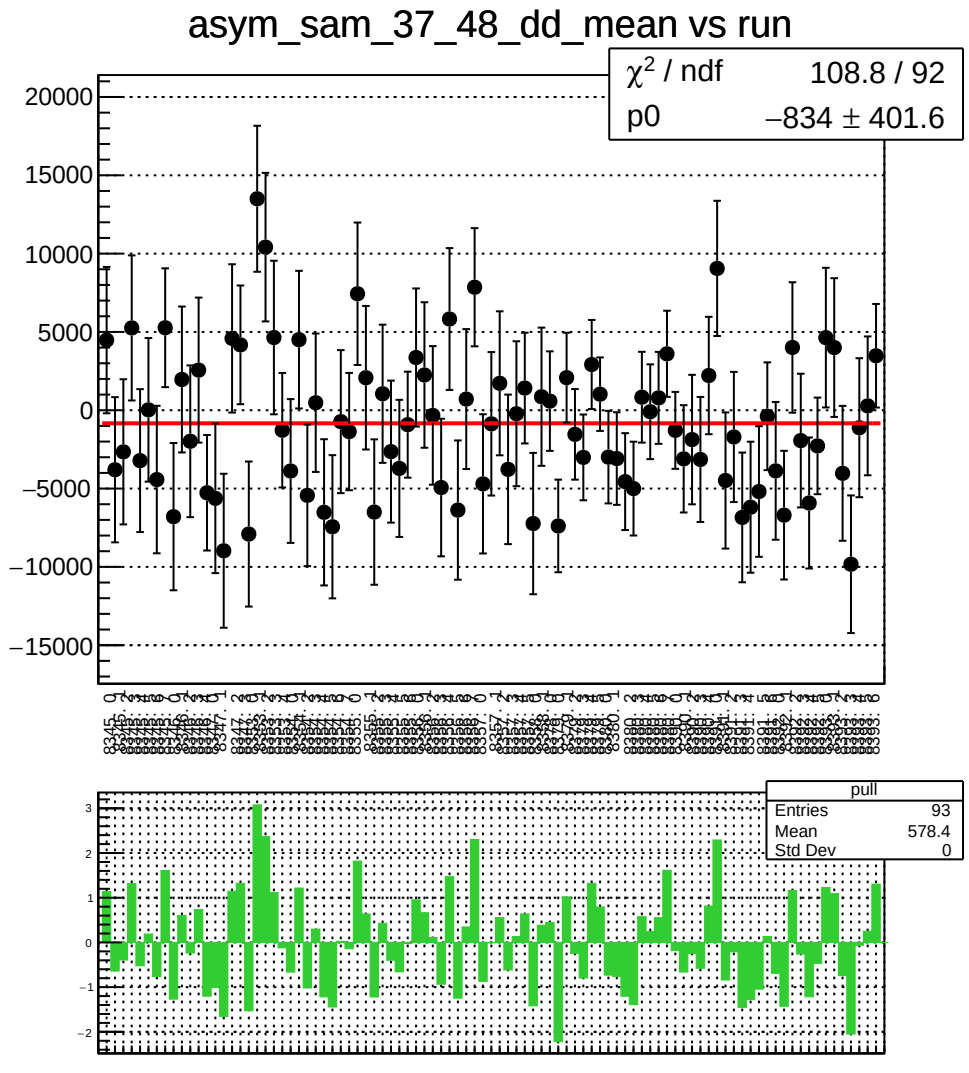

eigen_dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 106.1 / 92
p0 218.3 ± 72.02
3000
2000
1000
0
−1000
−2000
pull
Entries 93
Mean 719.7
Std Dev 0
3
2
1
0
−1
−2

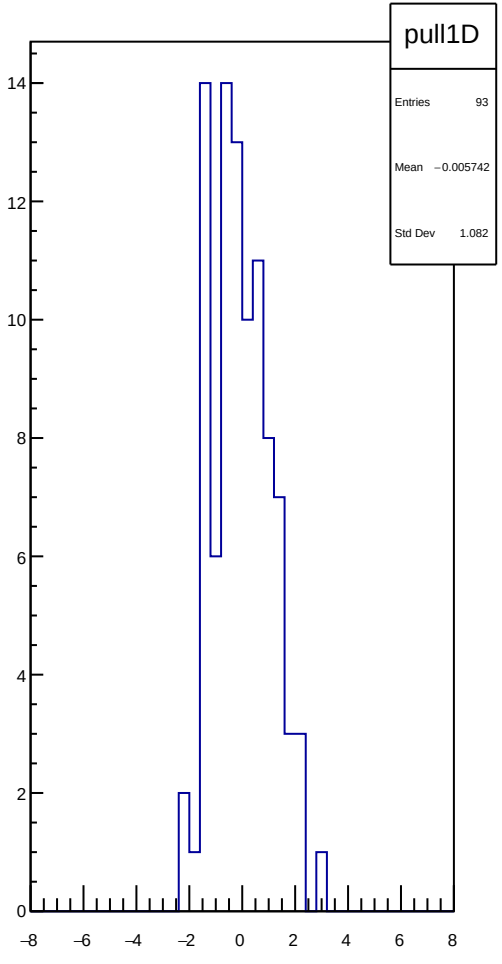

pull1D
Entries 93
Mean 0.007059
Std Dev 1.068
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

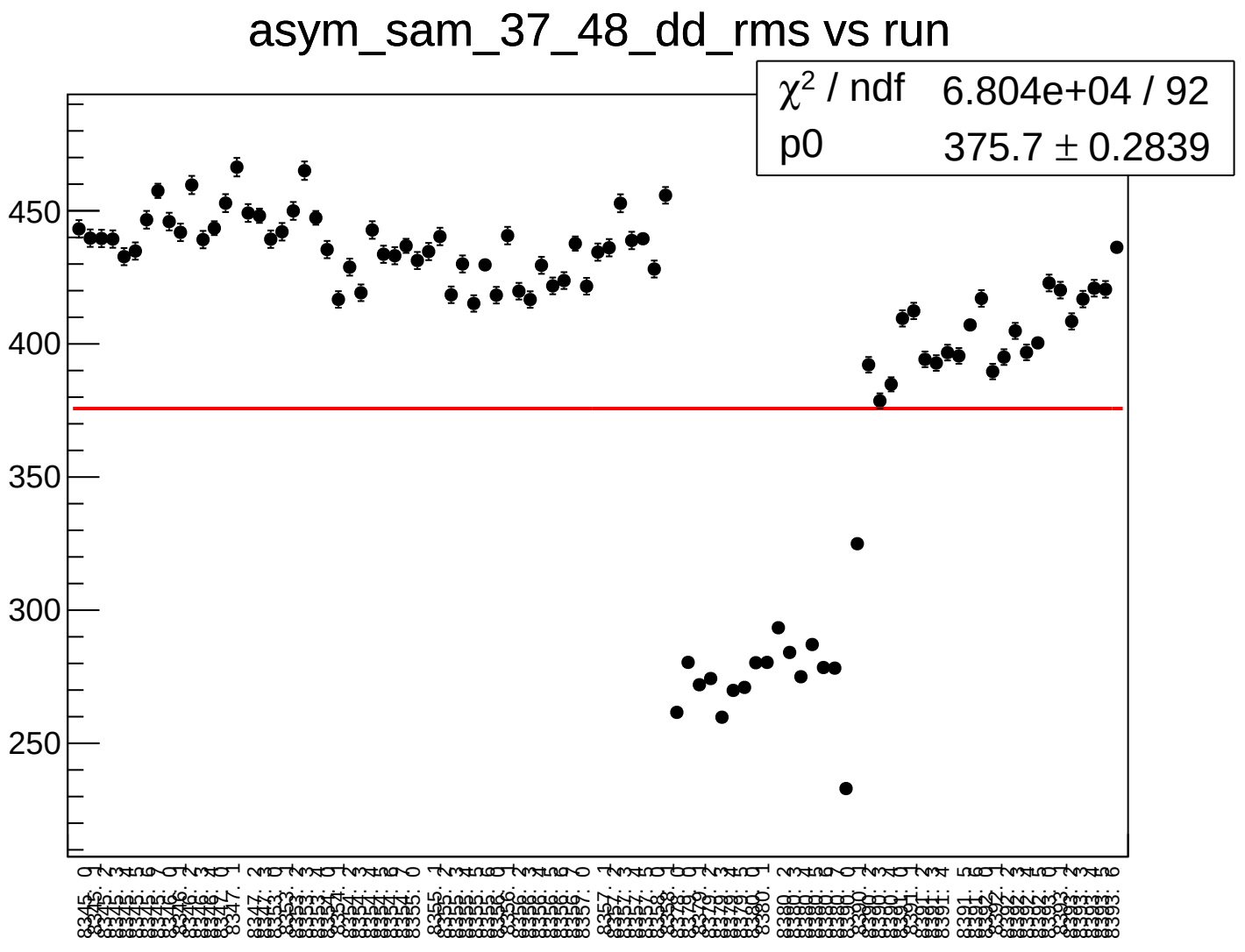

eigen_dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 7305 / 92
p0 68.54 ± 0.05092
95
90
85
80
75
70
65
60

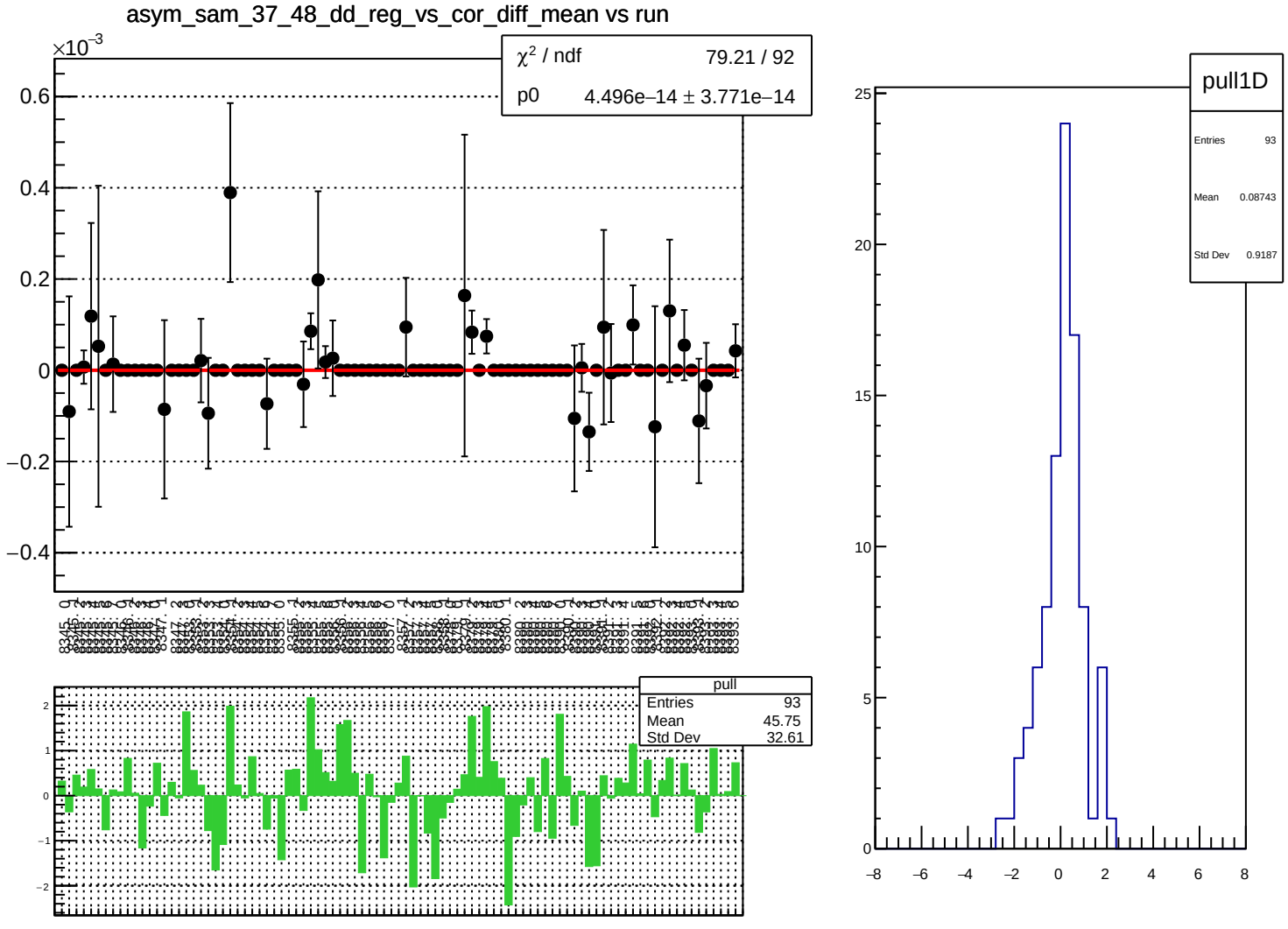

asym_sam_37_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 108.2 / 92
p0 1031 ± 426.6
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 93
Mean 422.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.009575
Std Dev 1.078
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

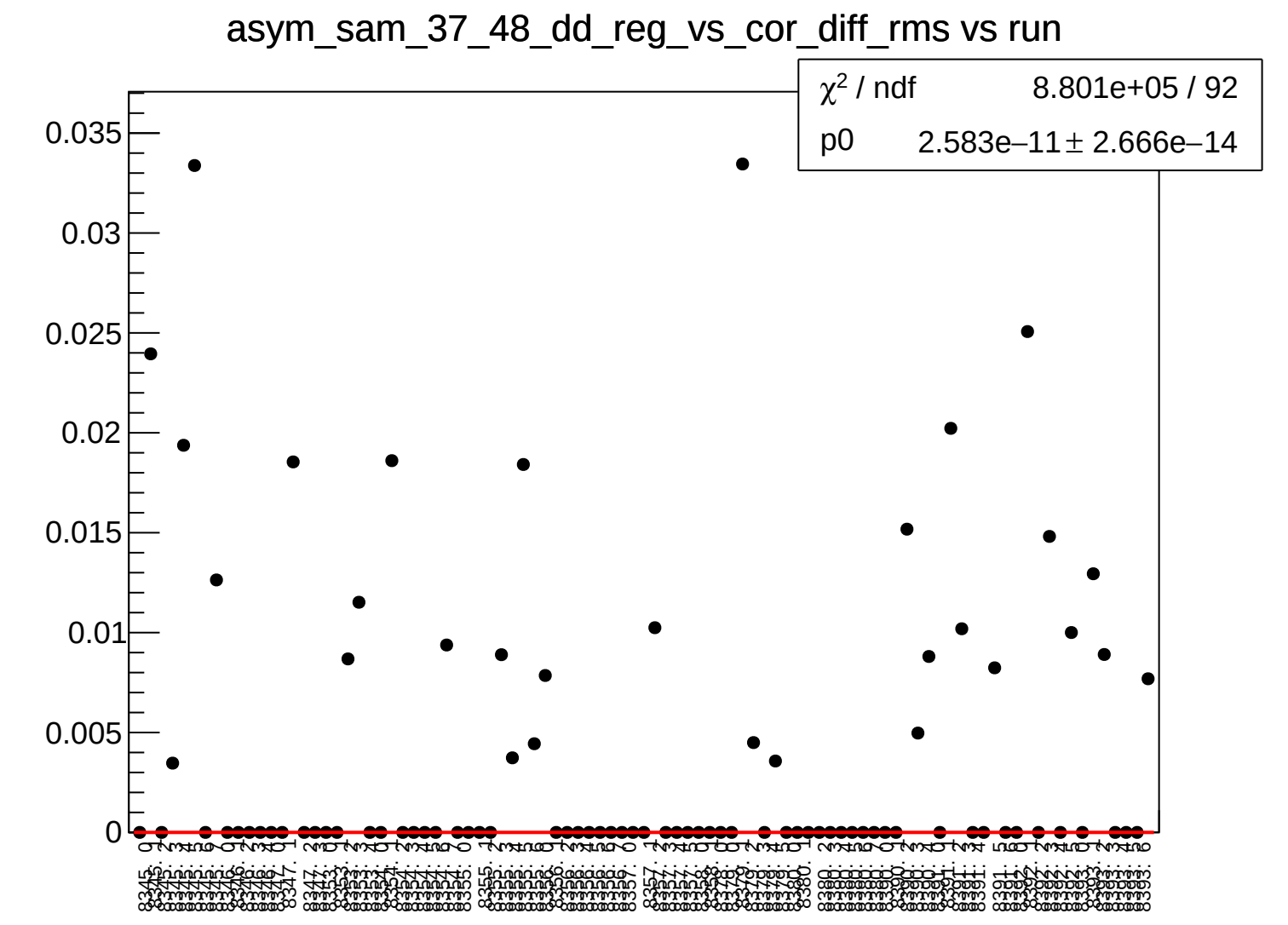

asym_sam_37_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 5.145e+04 / 92
p0 401.1 ± 0.3017
500
450
400
350
300

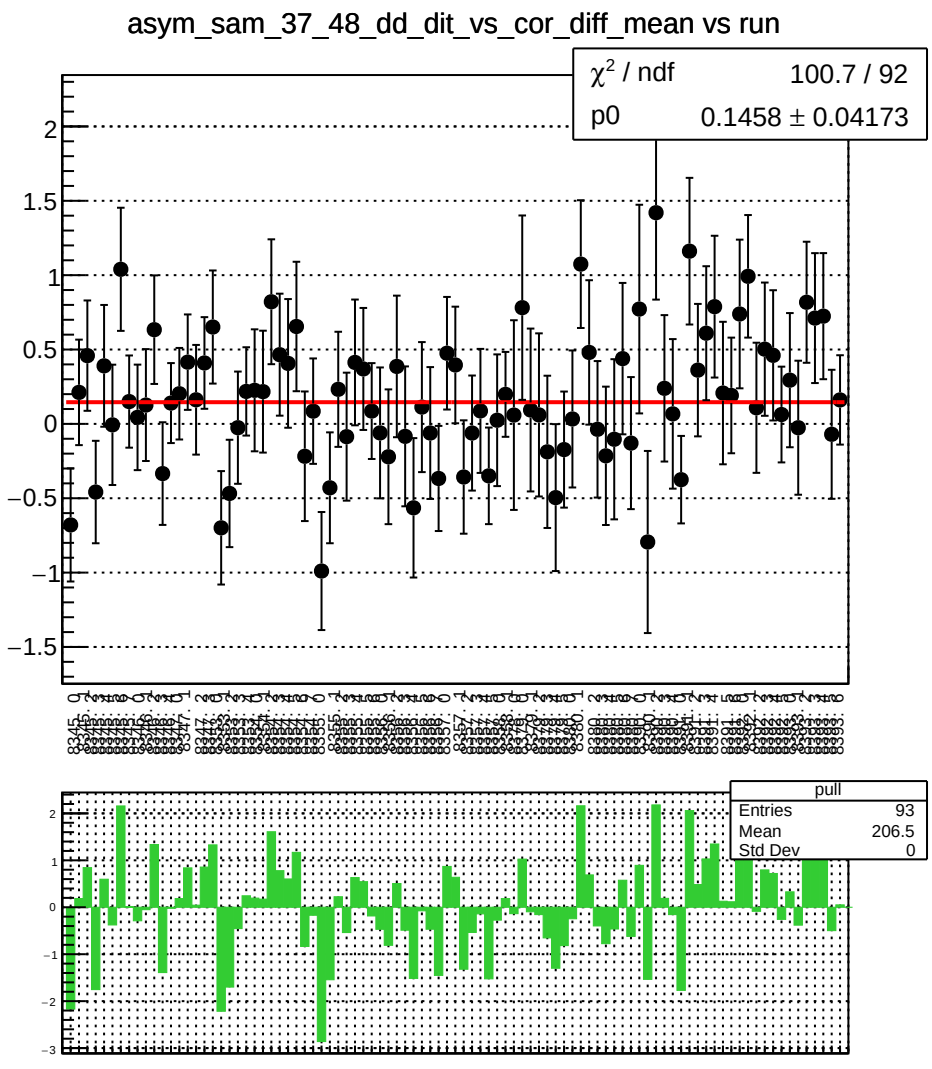

asym_sam_37_48_dd_mean vs run
χ² / ndf 108.8 / 92
p0 −834 ± 401.6
pull
Entries 93
Mean 578.4
Std Dev 0

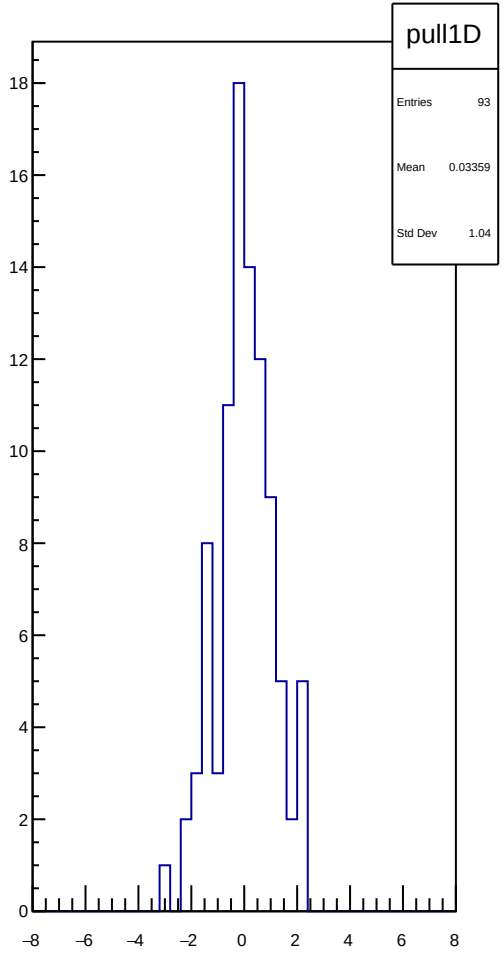

pull1D
Entries 93
Mean −0.005742
Std Dev 1.082

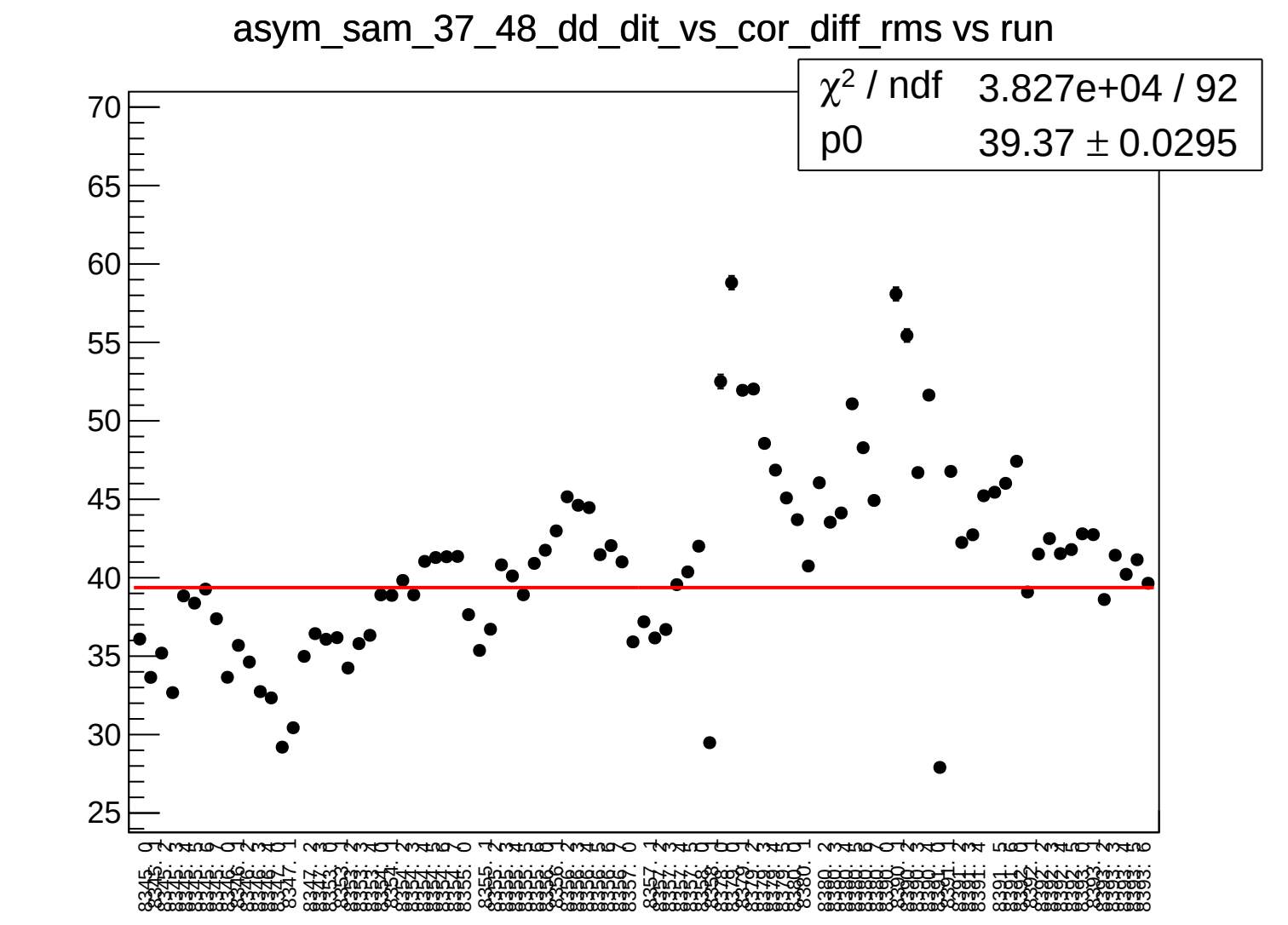

asym_sam_37_48_dd_rms vs run
χ^2 / ndf 6.804e+04 / 92
p0 375.7 ± 0.2839
450
400
350
300
250

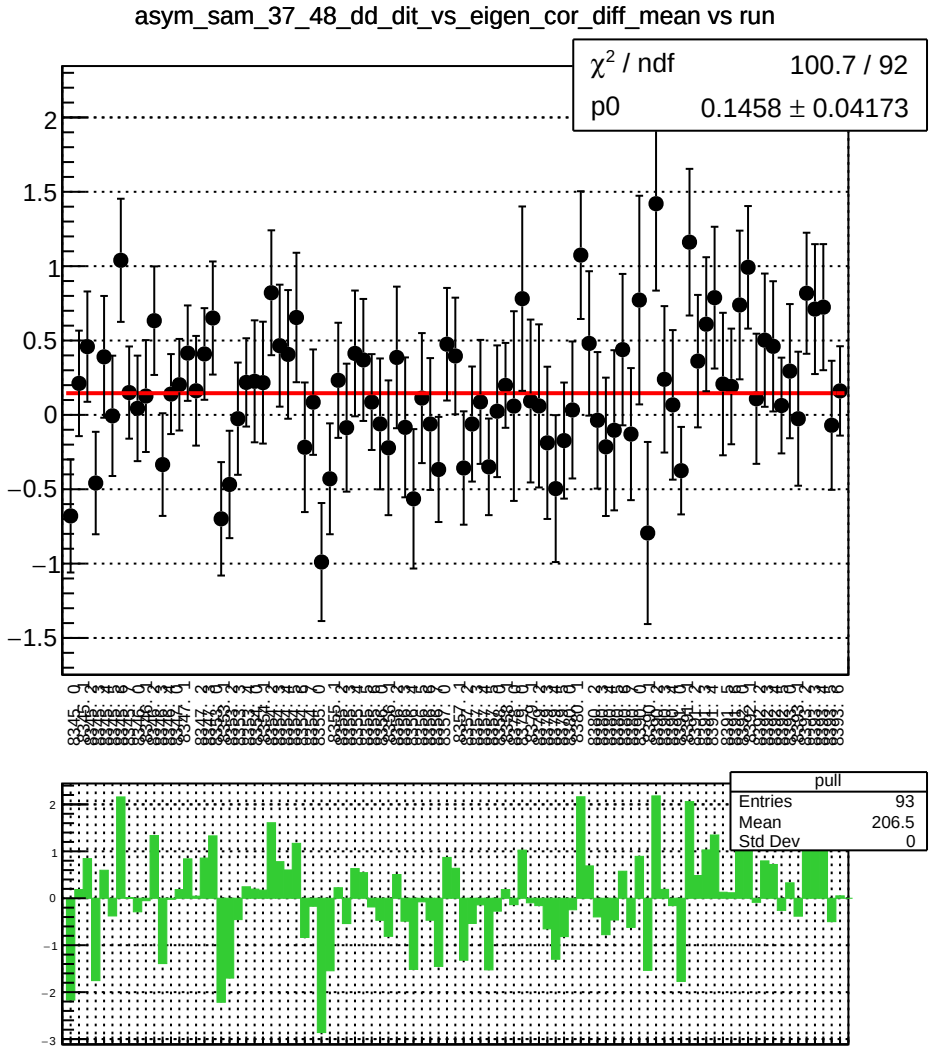

asym_sam_37_48_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 79.21 / 92
p0 4.496e−14 ± 3.771e−14
0.6
0.4
0.2
0
−0.2
−0.4
pull
Entries 93
Mean 45.75
Std Dev 32.61
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.08743
Std Dev 0.9187
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

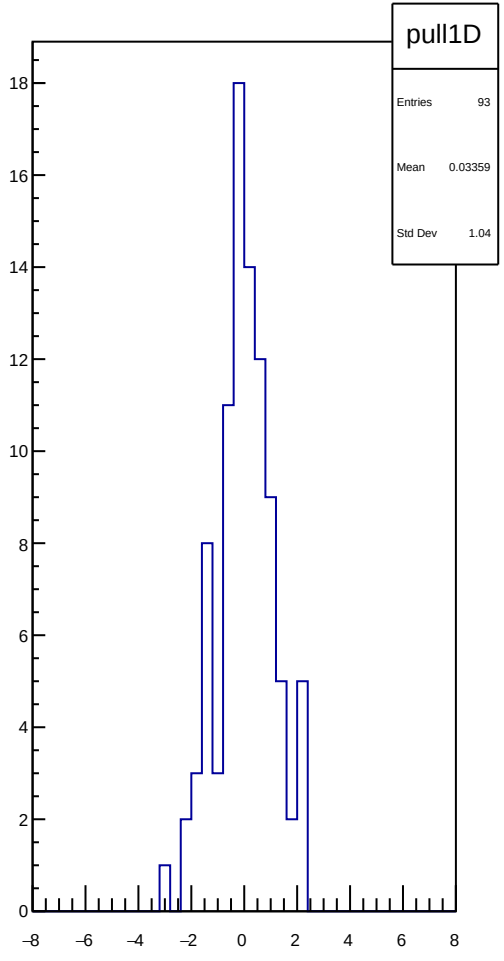

asym_sam_37_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.801e+05 / 92
p0 2.583e−11 ± 2.666e−14
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

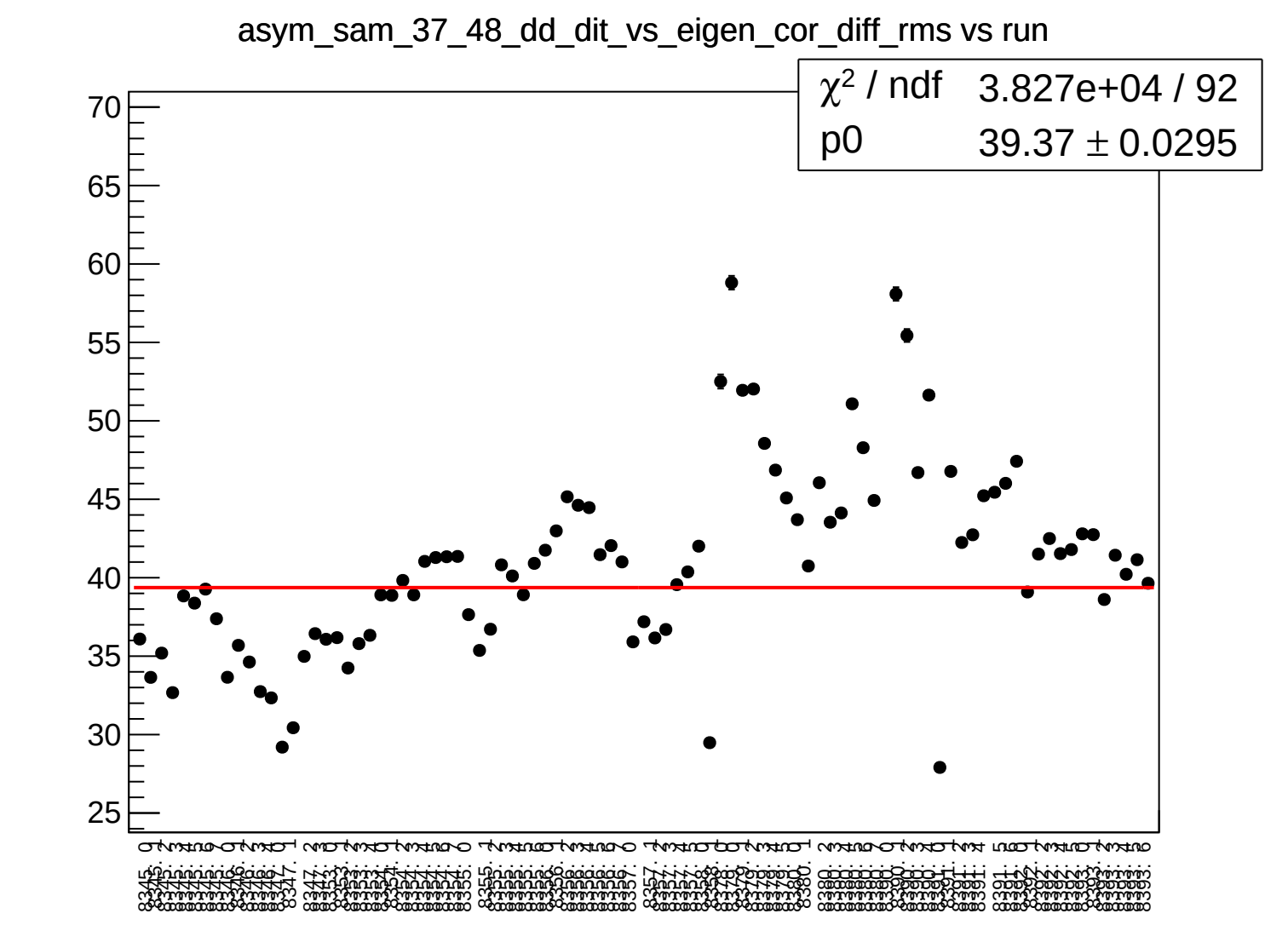

asym_sam_37_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 100.7 / 92
p0 0.1458 ± 0.04173
pull
Entries 93
Mean 206.5
Std Dev 0

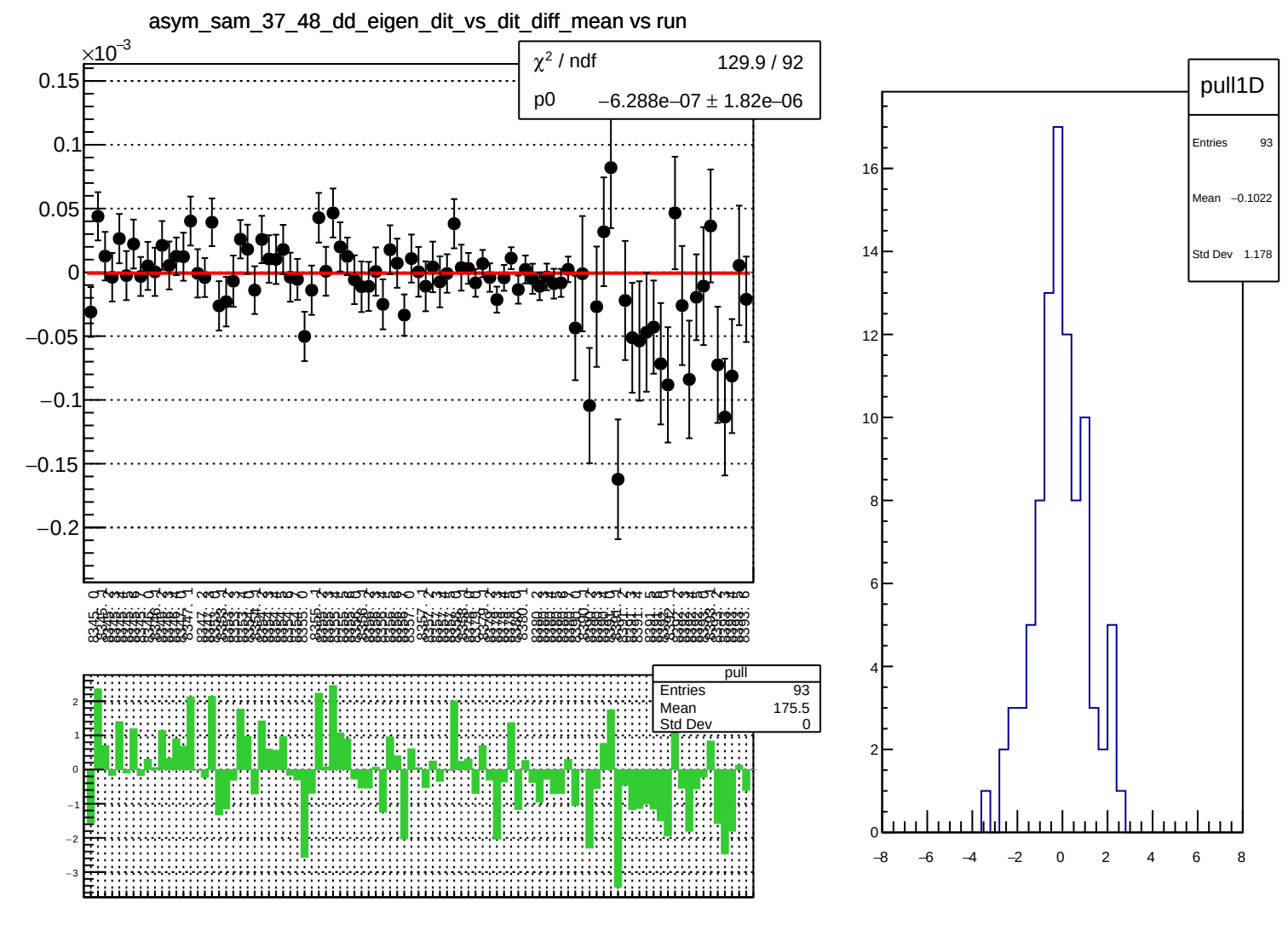

pull1D
Entries 93
Mean 0.03359
Std Dev 1.04

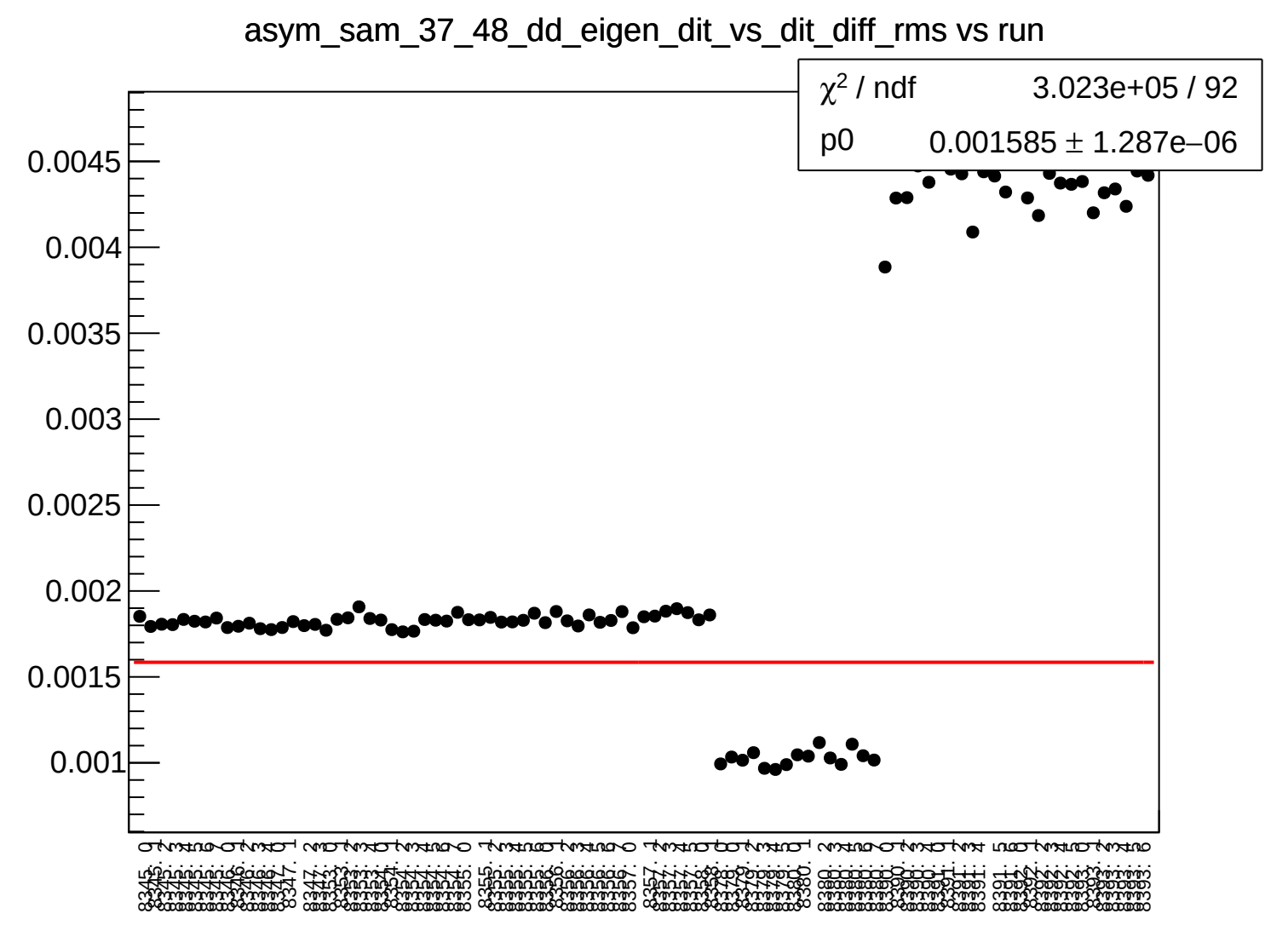

asym_sam_37_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.827e+04 / 92
p0 39.37 ± 0.0295
70
65
60
55
50
45
40
35
30
25

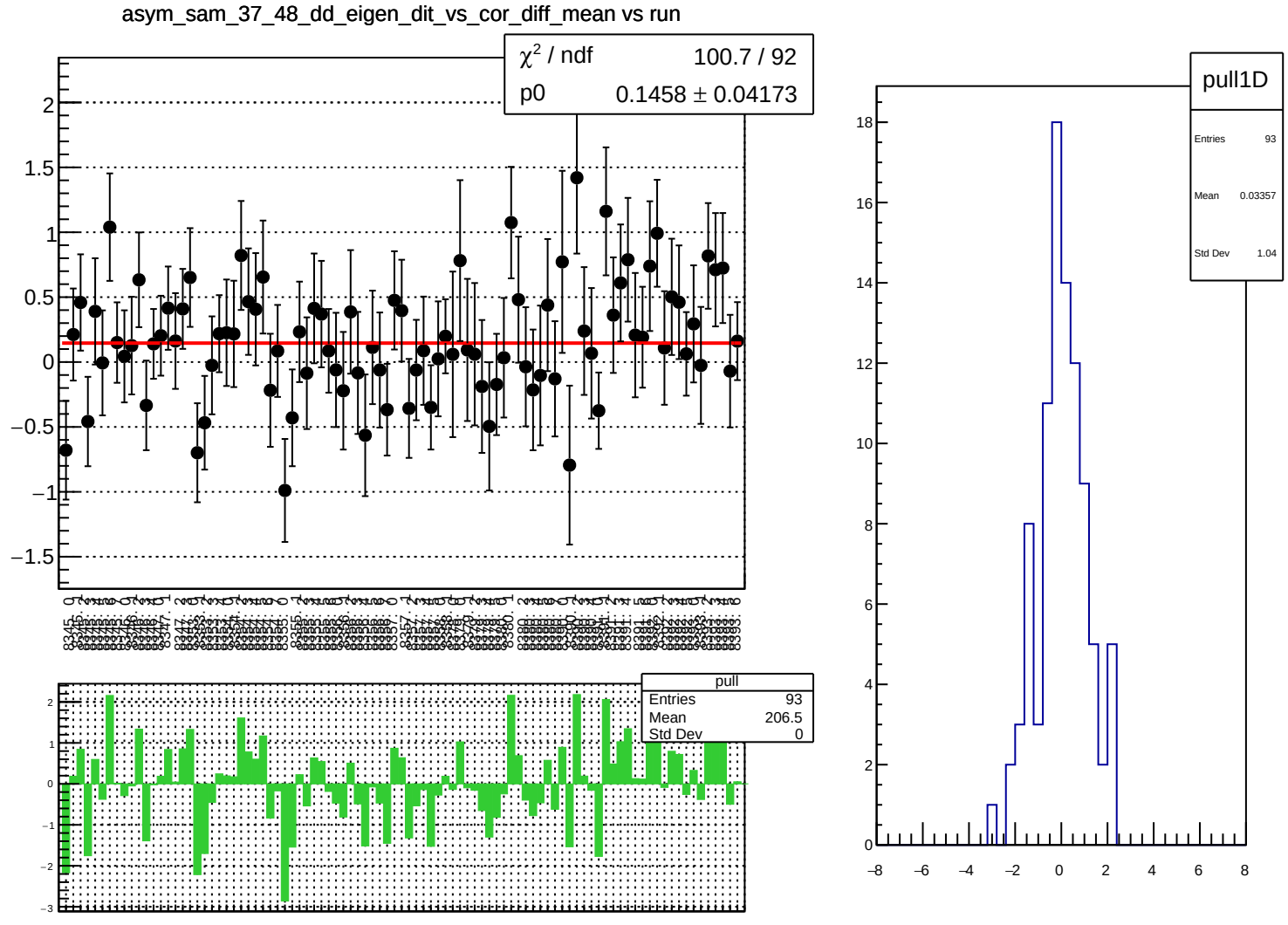

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.7 / 92
p0 0.1458 ± 0.04173
pull
Entries 93
Mean 206.5
Std Dev 0

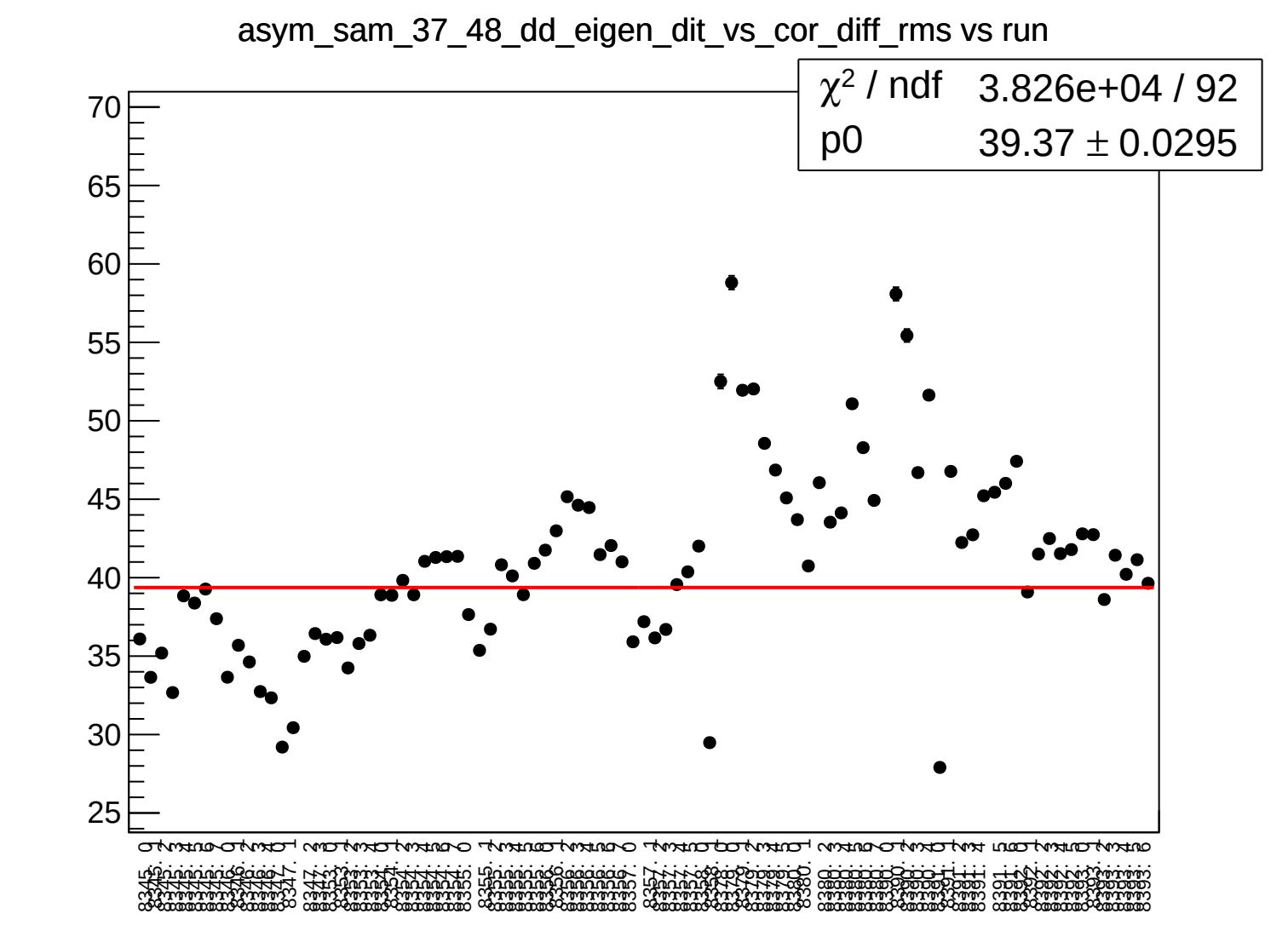

pull1D
Entries 93
Mean 0.03359
Std Dev 1.04

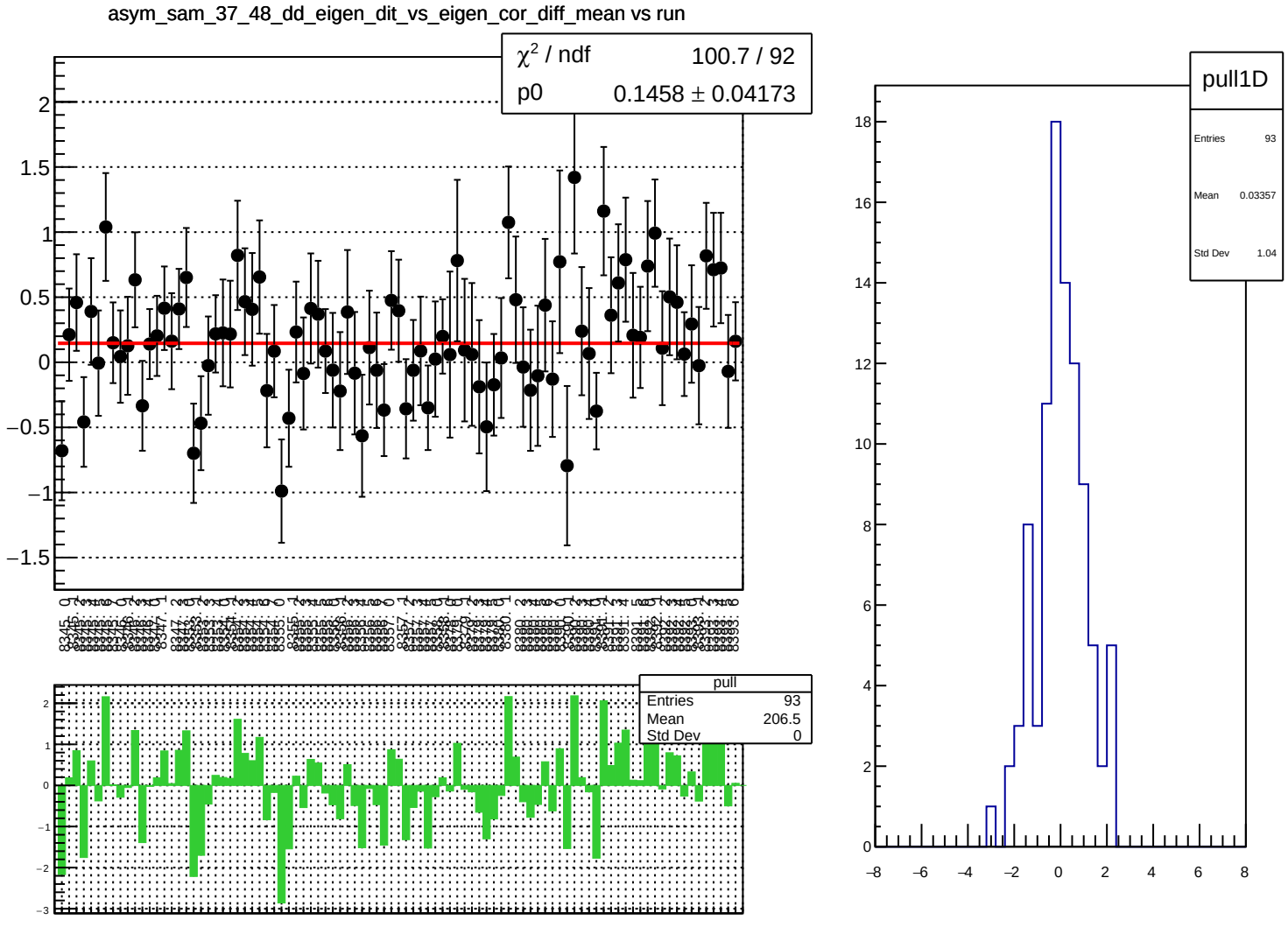

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.827e+04 / 92
p0 39.37 ± 0.0295
70
65
60
55
50
45
40
35
30
25

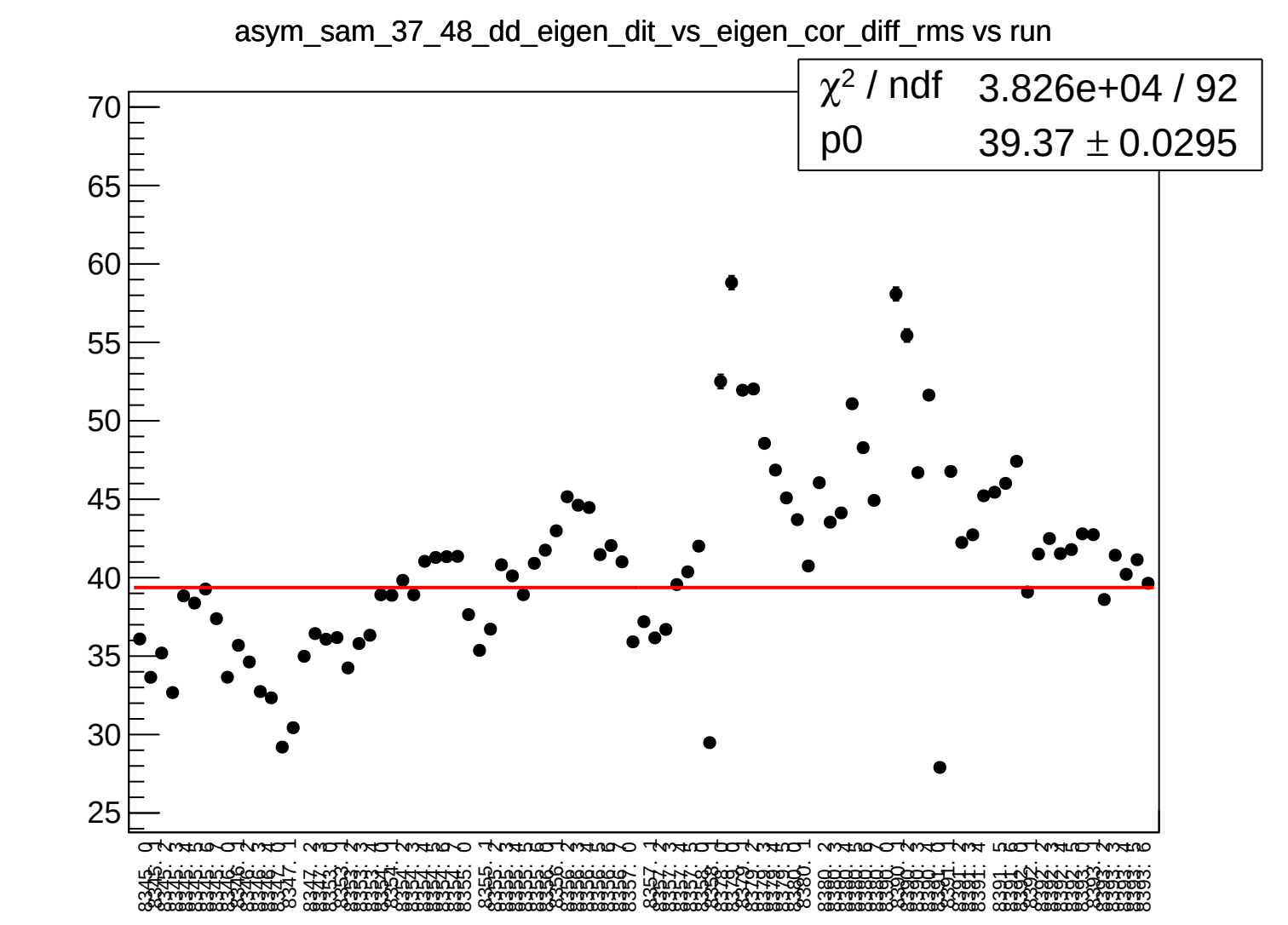

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 129.9 / 92
p0 −6.288e−07 ± 1.82e−06
pull
Entries 93
Mean 175.5
Std Dev 0
pull1D
Entries 93
Mean −0.1022
Std Dev 1.178

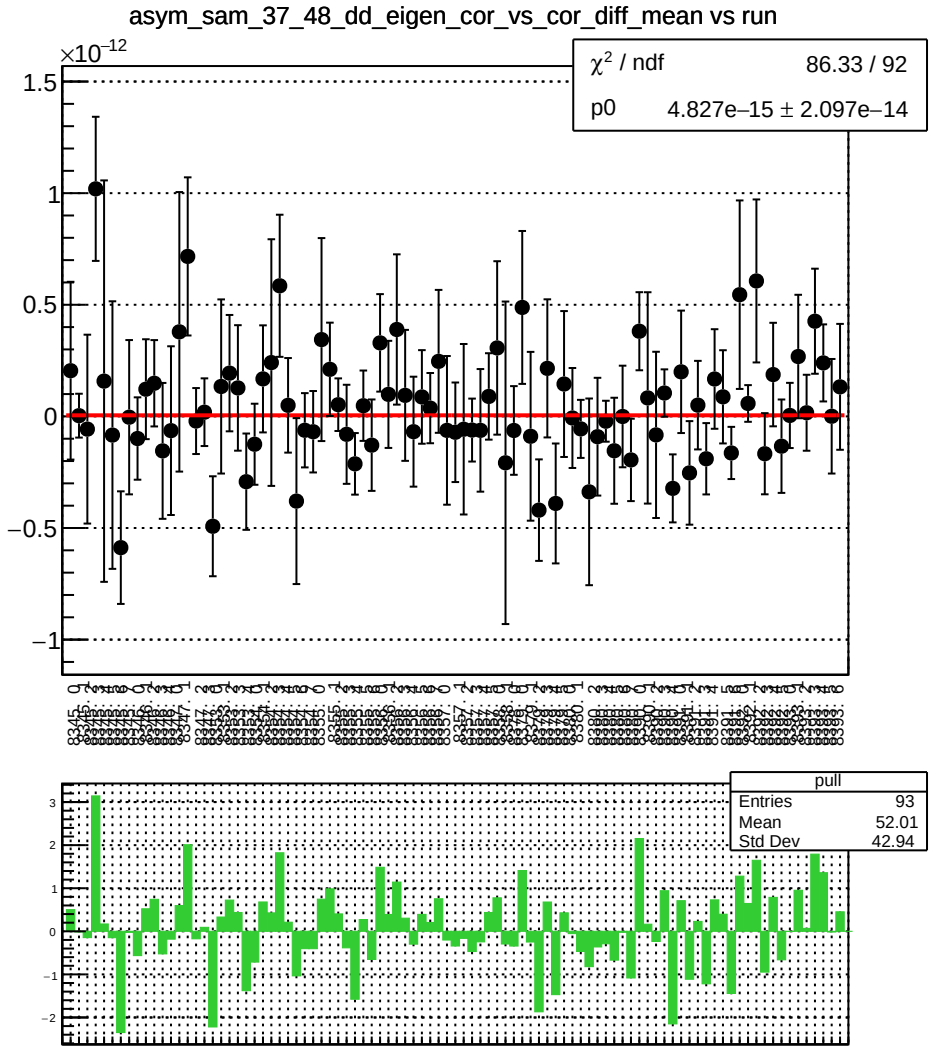

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.023e+05 / 92
p0 0.001585 ± 1.287e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001

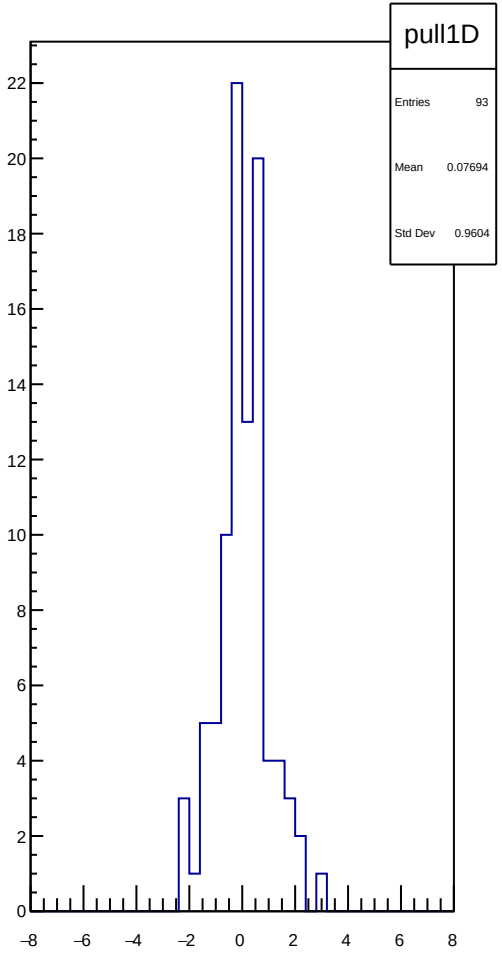

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 100.7 / 92
p0 0.1458 ± 0.04173
pull
Entries 93
Mean 206.5
Std Dev 0
pull1D
Entries 93
Mean 0.03357
Std Dev 1.04

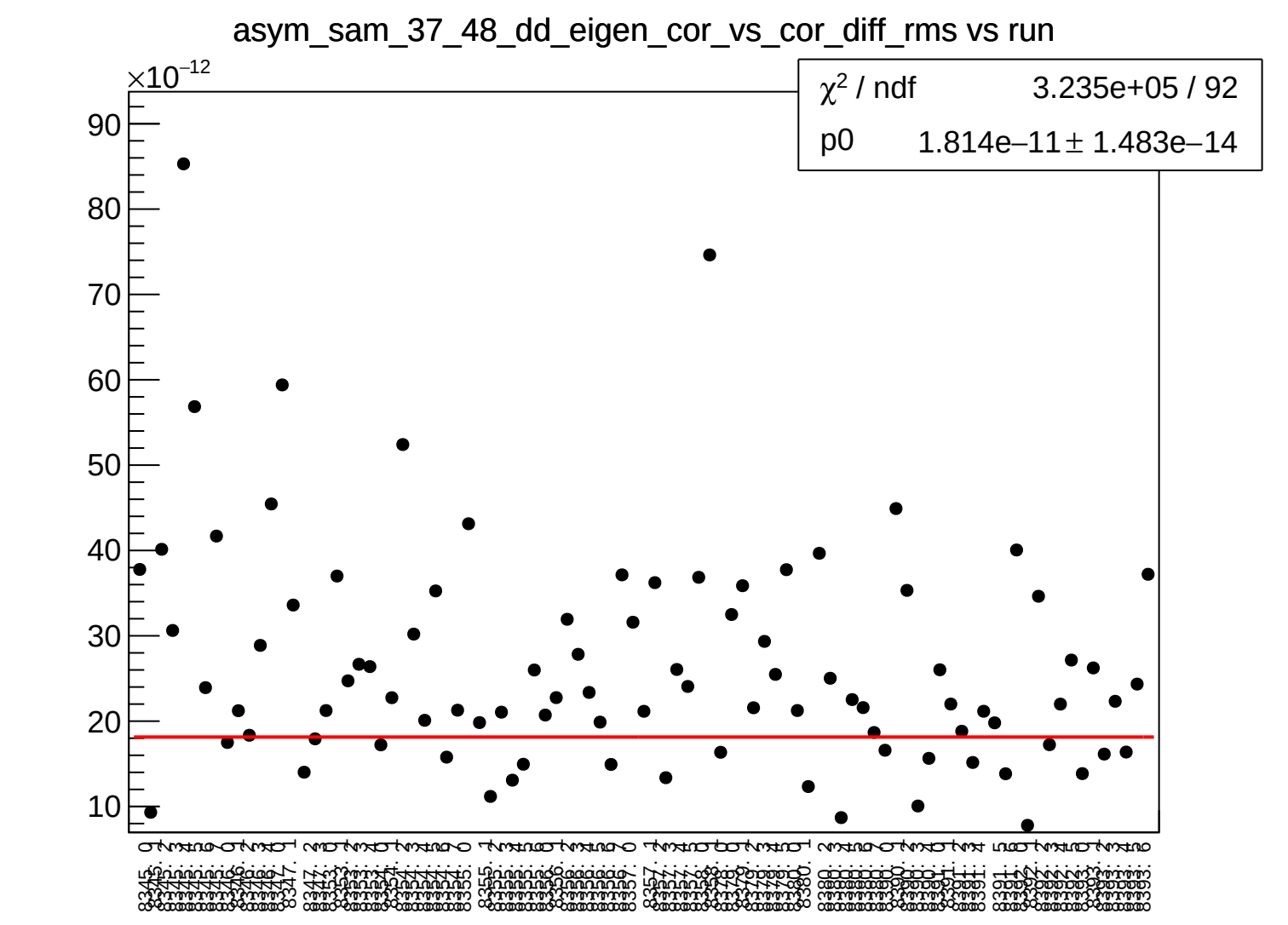

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.826e+04 / 92
p0 39.37 ± 0.0295
70
65
60
55
50
45
40
35
30
25

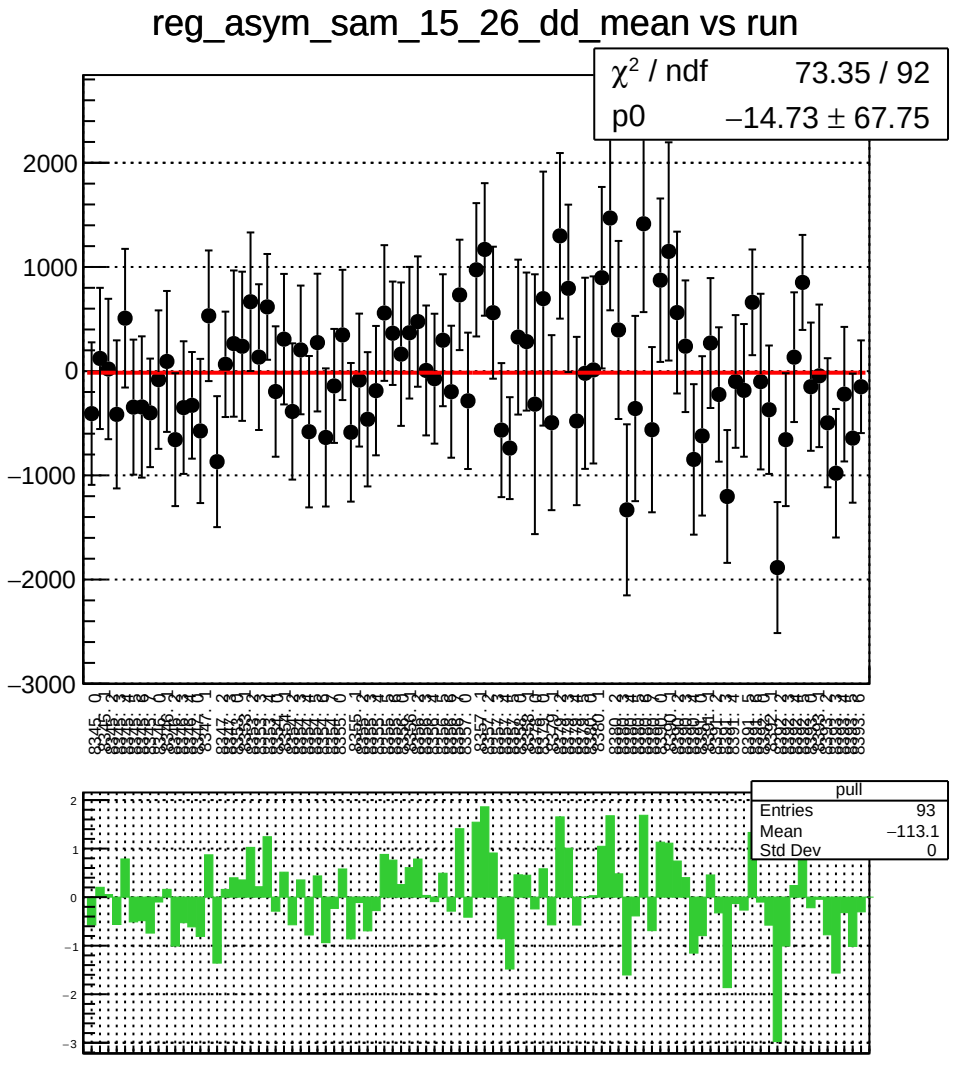

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.7 / 92
p0 0.1458 ± 0.04173
pull
Entries 93
Mean 206.5
Std Dev 0
pull1D
Entries 93
Mean 0.03357
Std Dev 1.04

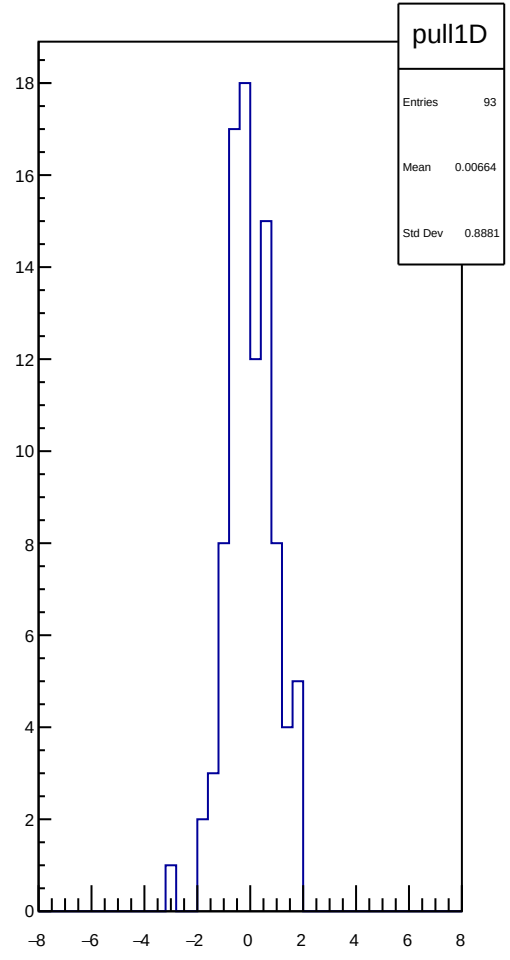

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.826e+04 / 92
p0 39.37 ± 0.0295
70
65
60
55
50
45
40
35
30
25

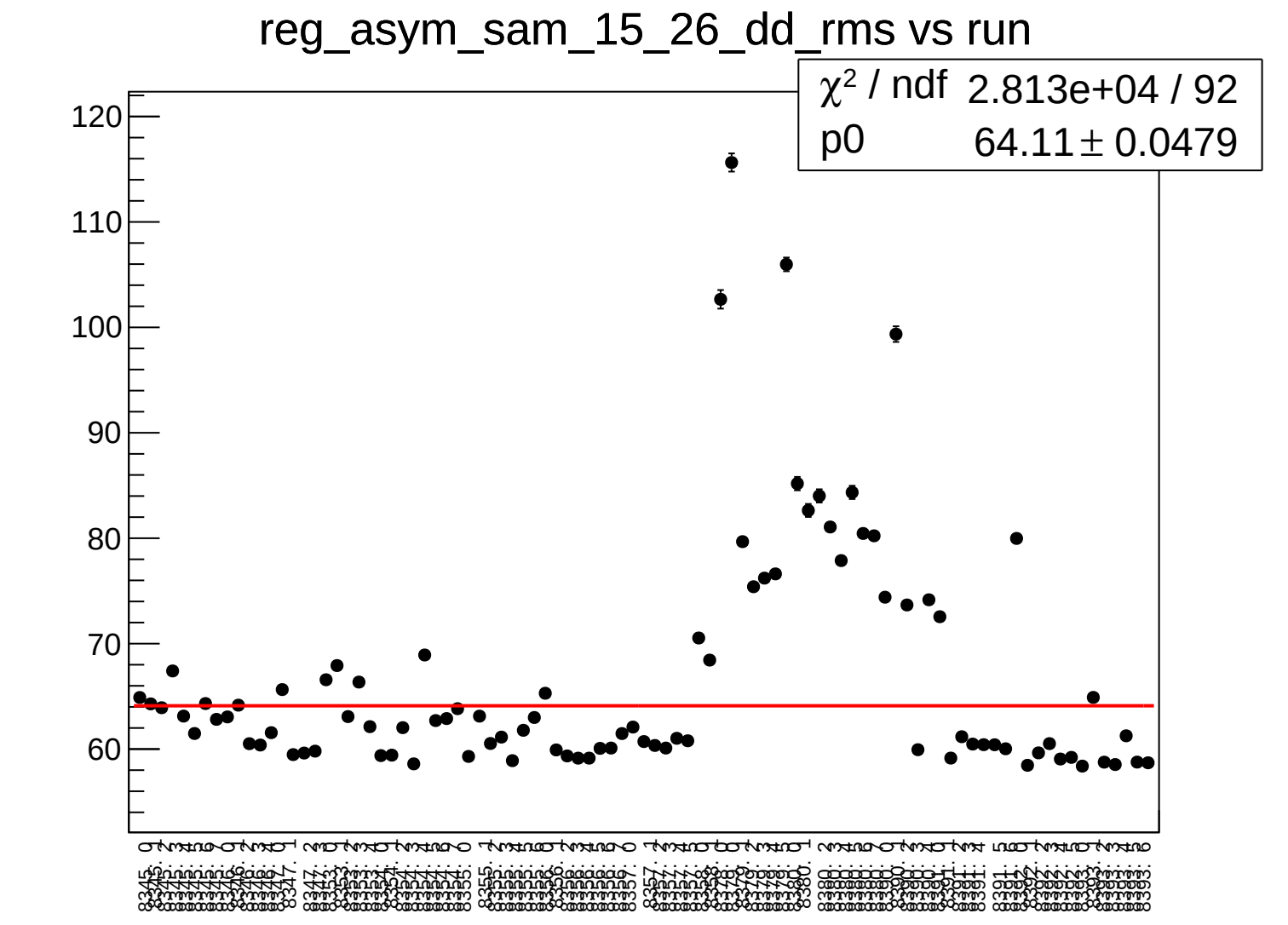

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.33 / 92
p0 4.827e−15 ± 2.097e−14
pull
Entries 93
Mean 52.01
Std Dev 42.94

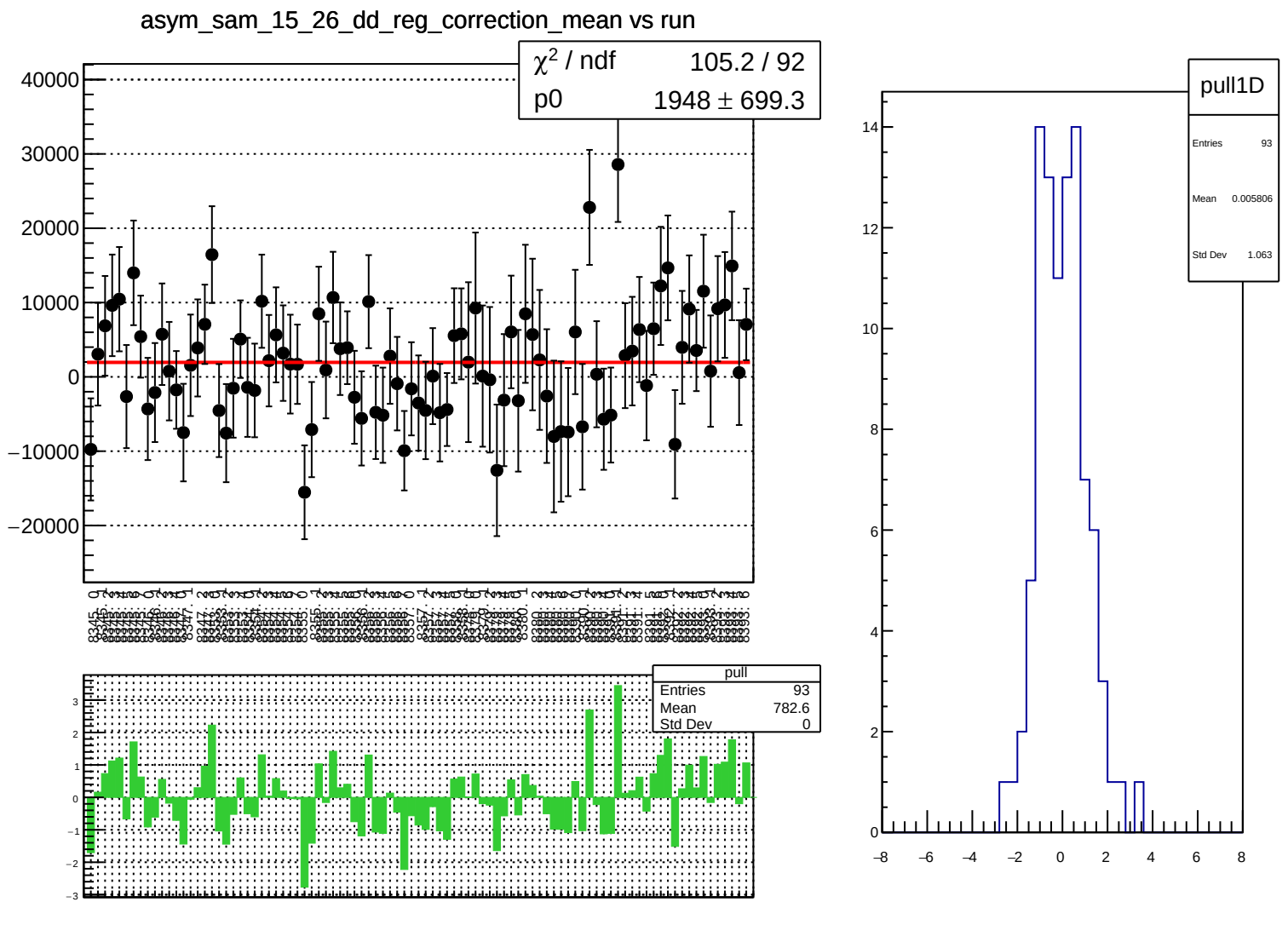

pull1D
Entries 93
Mean 0.07694
Std Dev 0.9604

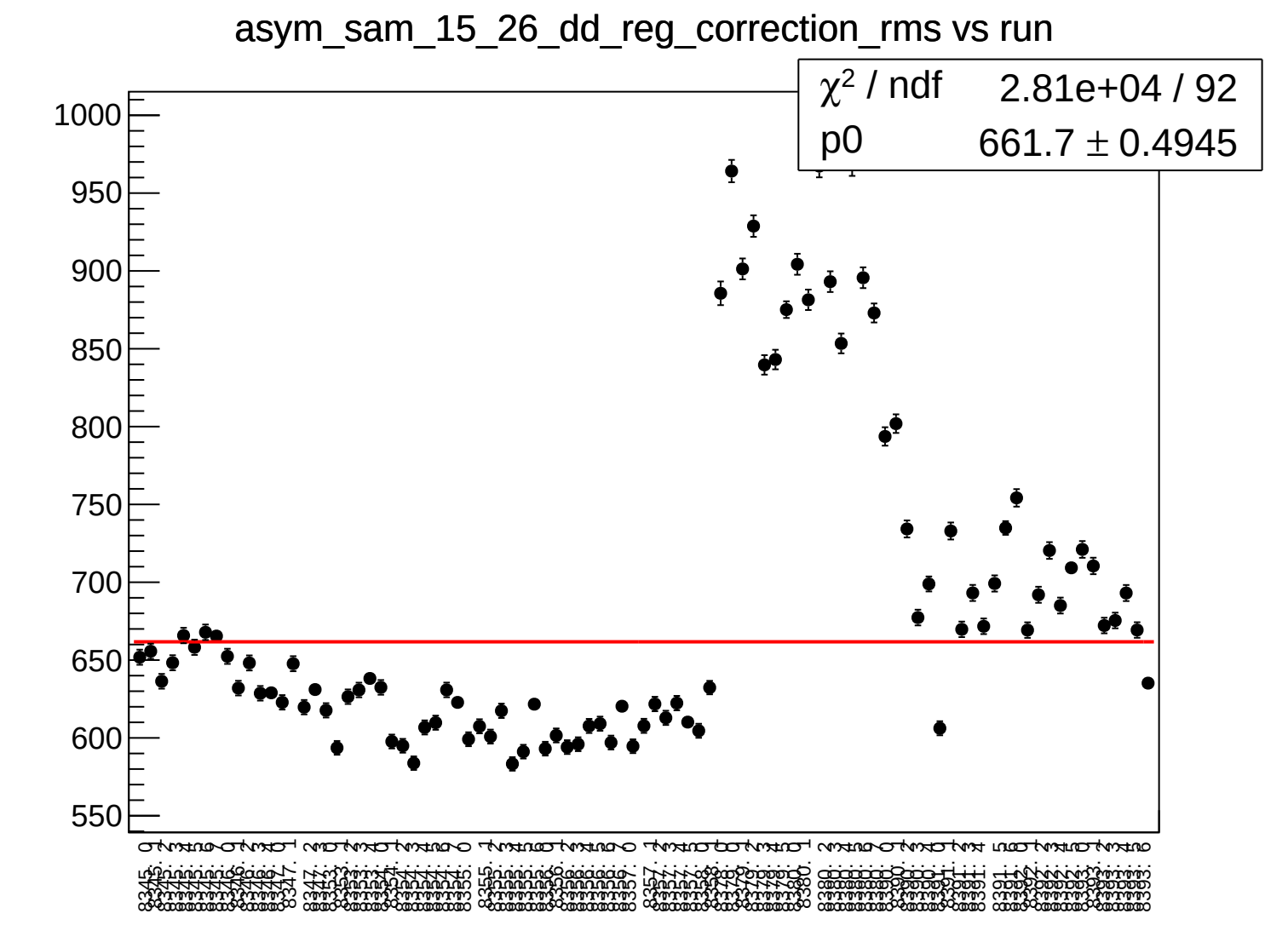

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
90
80
70
60
50
40
30
20
10
χ² / ndf 3.235e+05 / 92
p0 1.814e−11 ± 1.483e−14

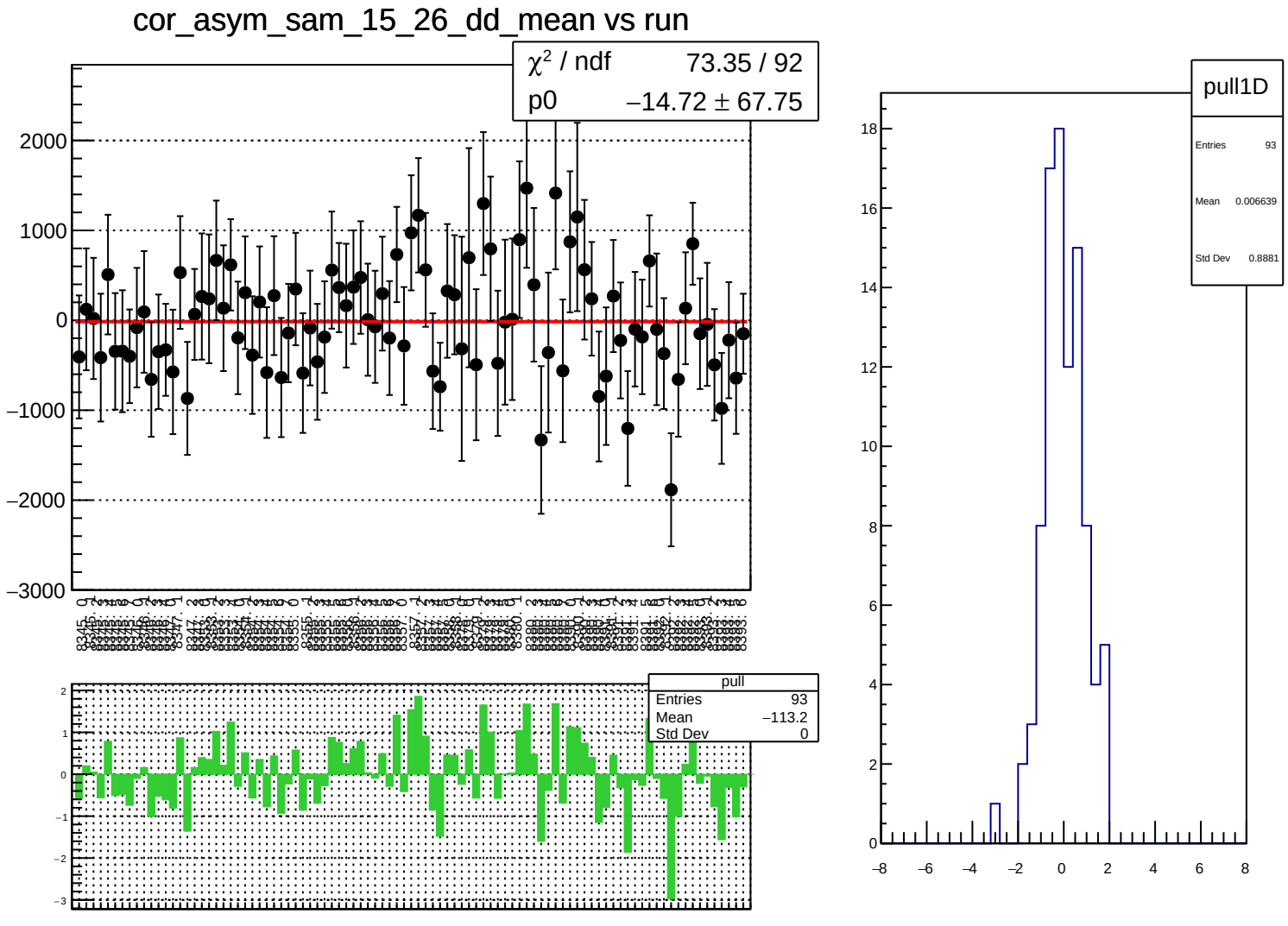

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 73.35 / 92
p0 −14.73 ± 67.75
pull
Entries 93
Mean −113.1
Std Dev 0

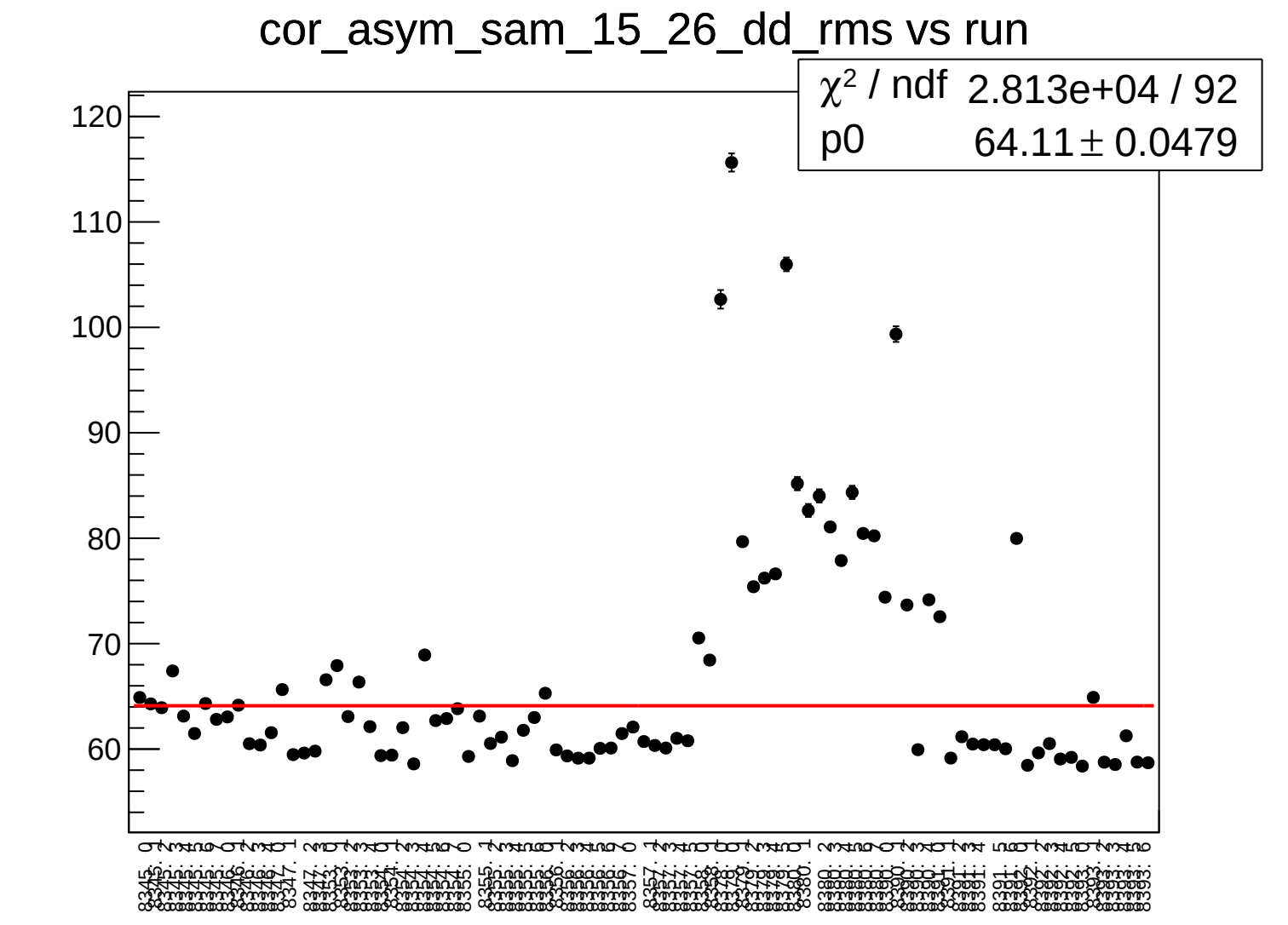

pull1D
Entries 93
Mean 0.00664
Std Dev 0.8881

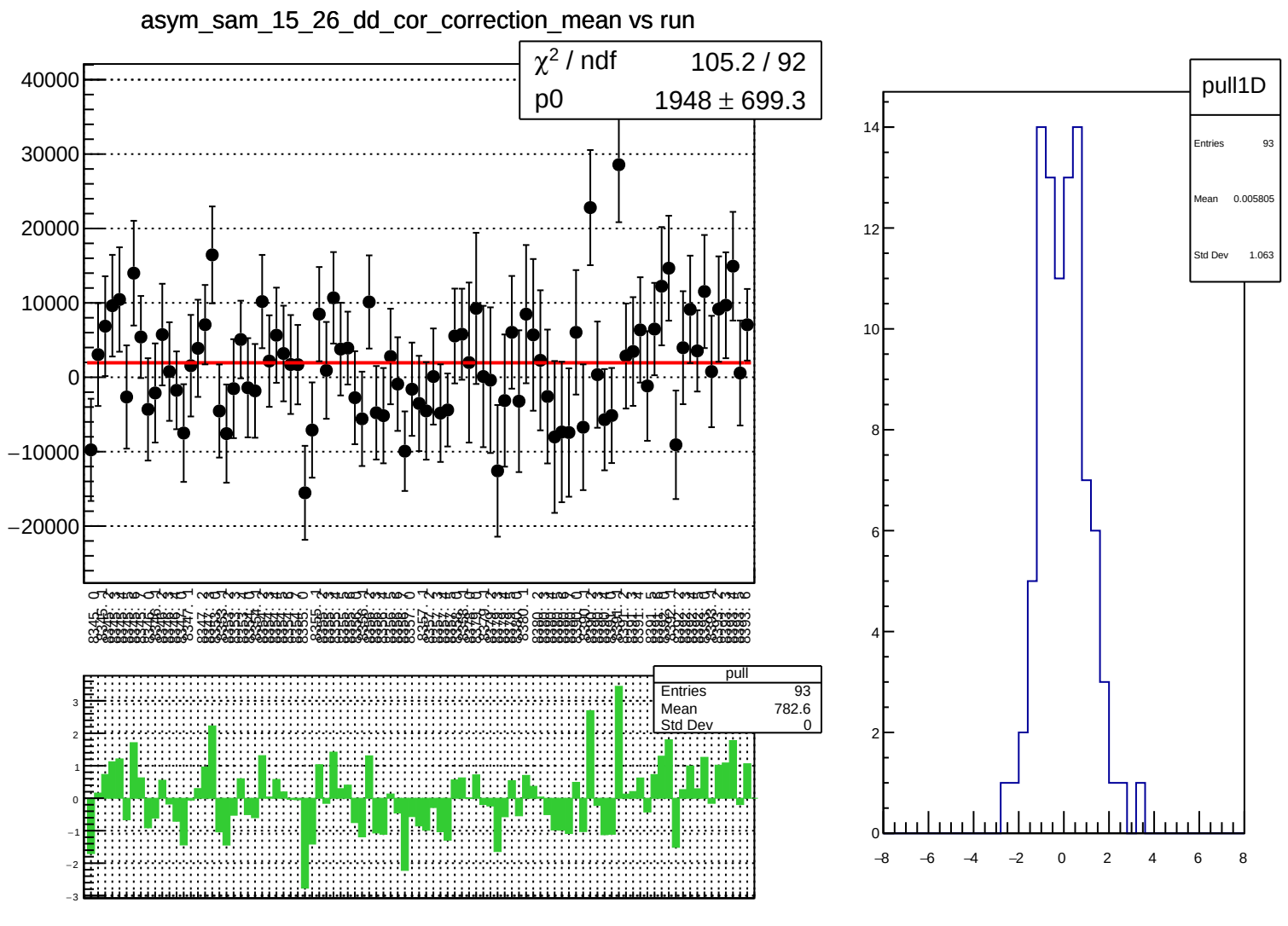

reg_asym_sam_15_26_dd_rms vs run
χ² / ndf 2.813e+04 / 92
p0 64.11 ± 0.0479
120
110
100
90
80
70
60

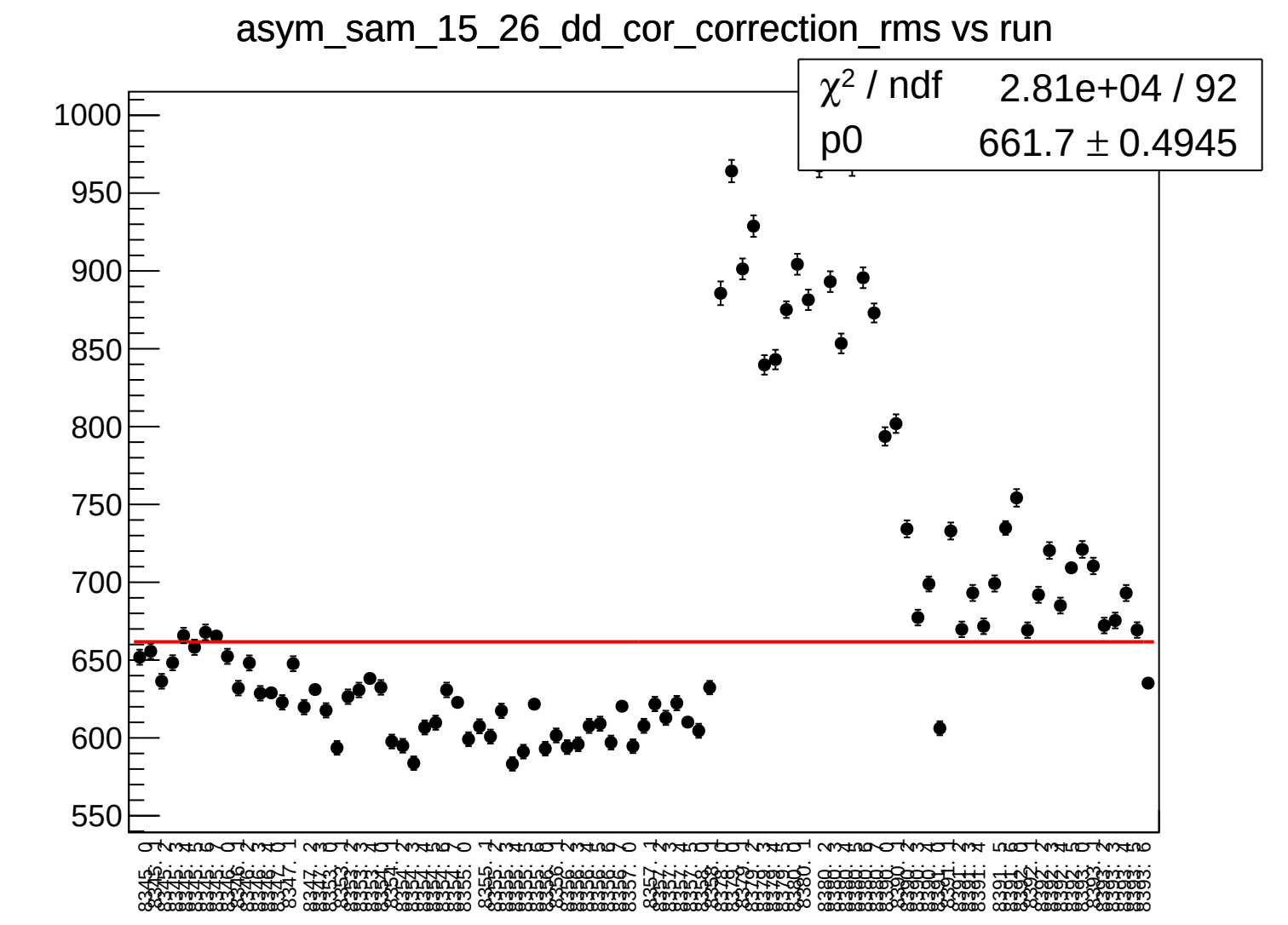

asym_sam_15_26_dd_reg_correction_mean vs run
χ² / ndf 105.2 / 92
p0 1948 ± 699.3
40000
30000
20000
10000
0
−10000
−20000
pull
Entries 93
Mean 782.6
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.005806
Std Dev 1.063
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

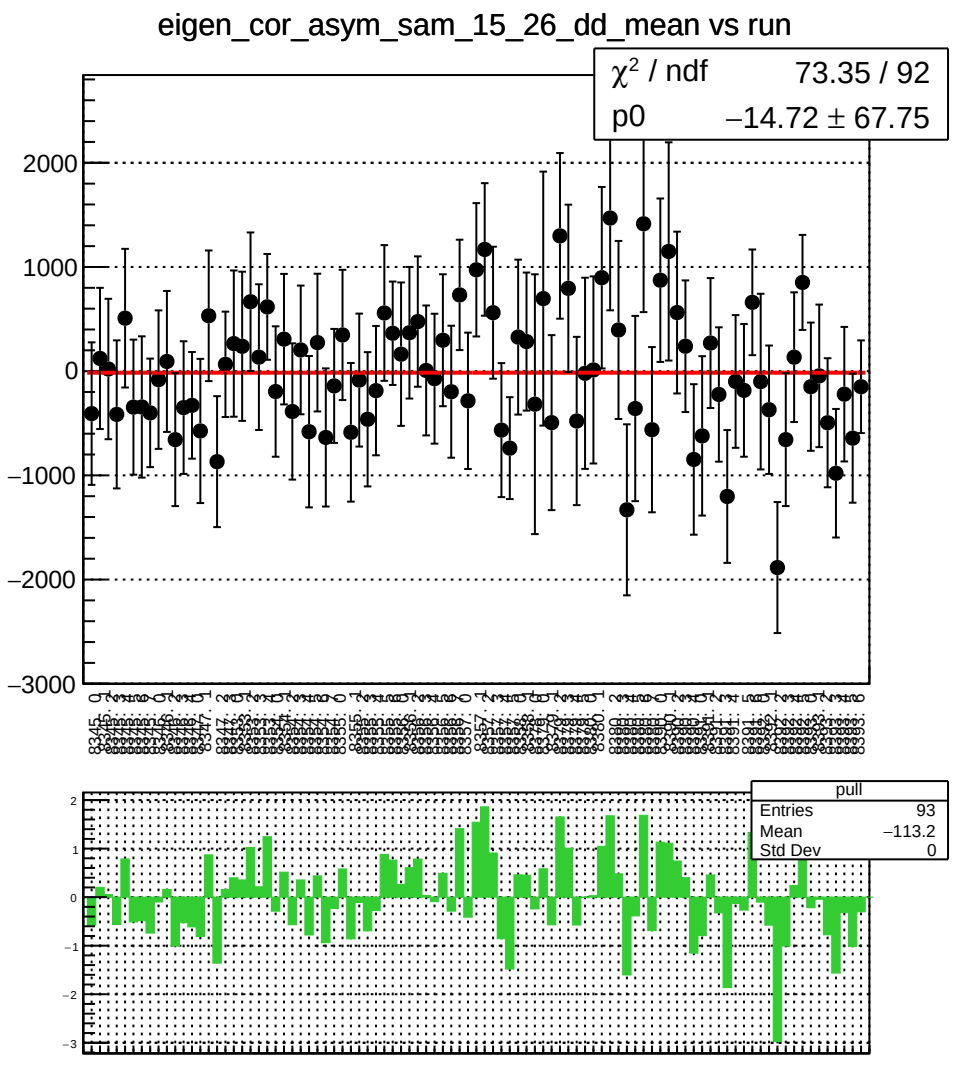

asym_sam_15_26_dd_reg_correction_rms vs run
χ² / ndf 2.81e+04 / 92
p0 661.7 ± 0.4945
1000
950
900
850
800
750
700
650
600
550

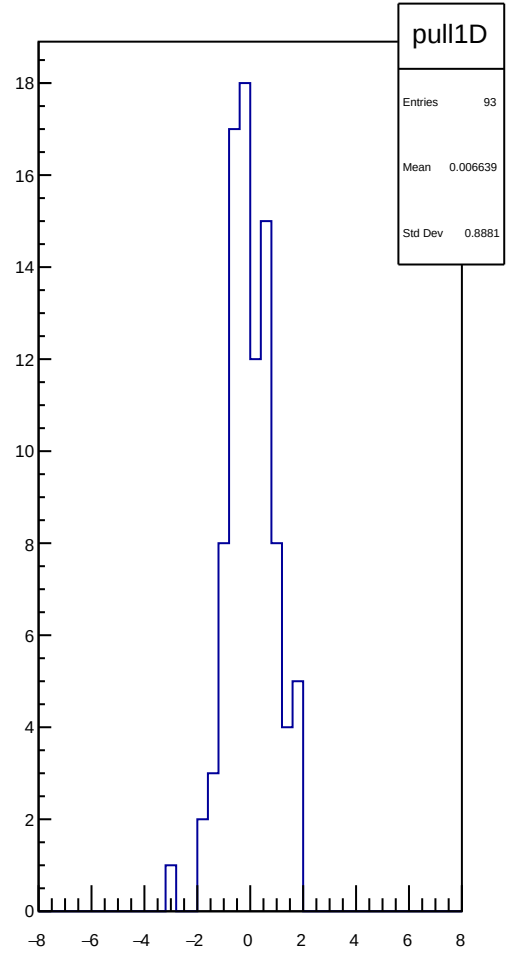

cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 73.35 / 92
p0 −14.72 ± 67.75
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean −113.2
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.006639
Std Dev 0.8881
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

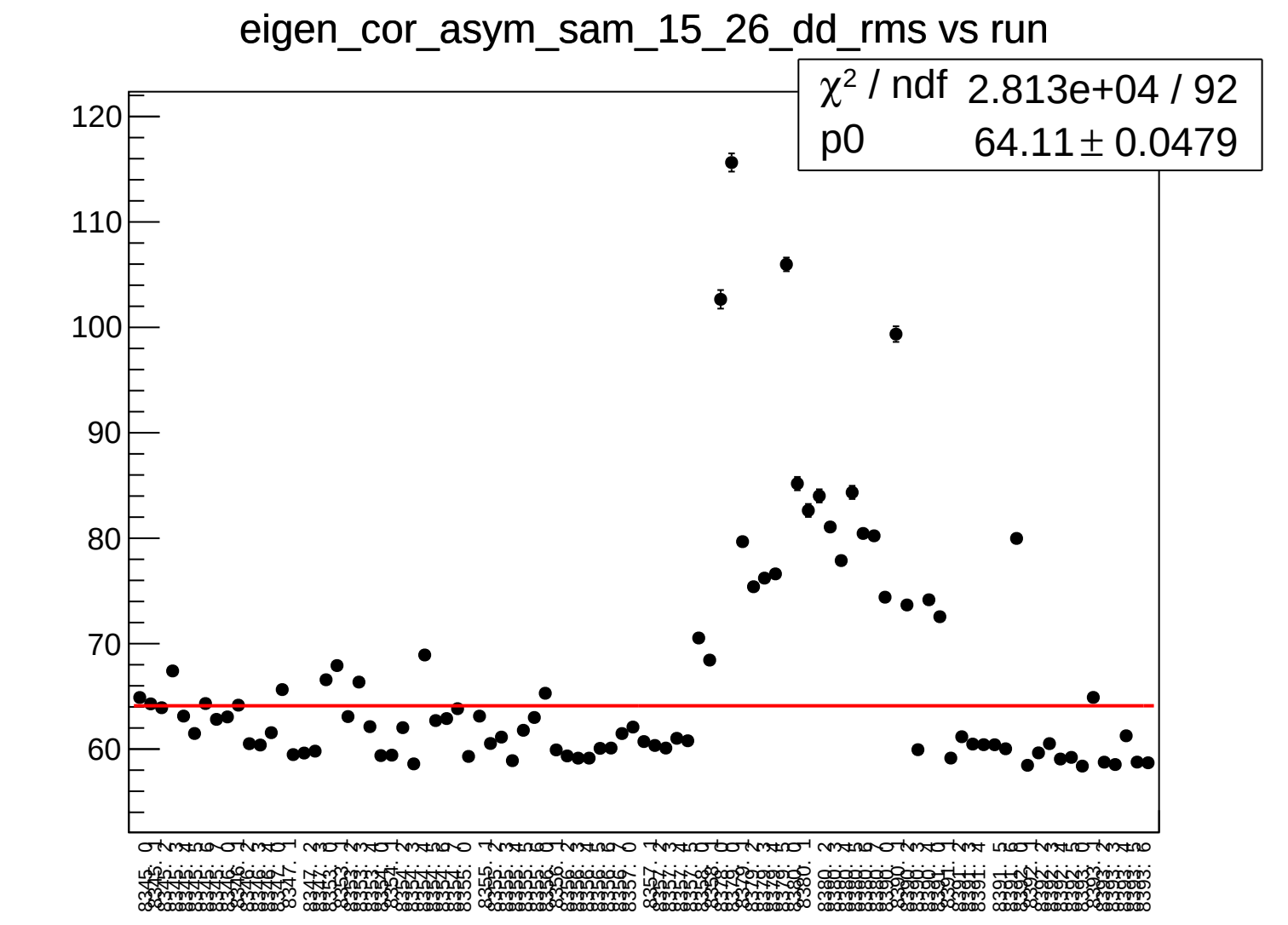

cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 2.813e+04 / 92
p0 64.11 ± 0.0479
120
110
100
90
80
70
60

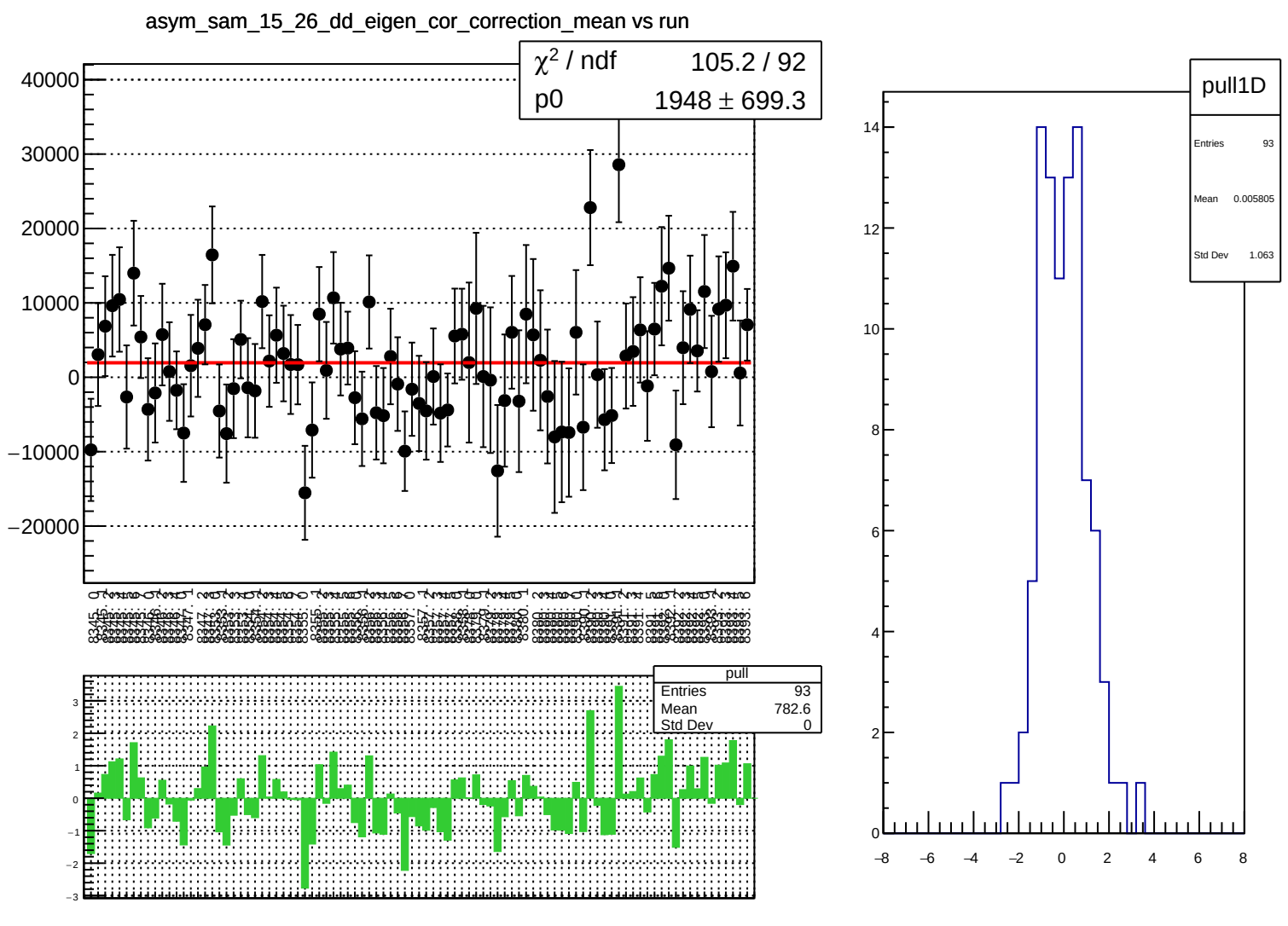

asym_sam_15_26_dd_cor_correction_mean vs run
χ² / ndf 105.2 / 92
p0 1948 ± 699.3
40000
30000
20000
10000
0
−10000
−20000
pull
Entries 93
Mean 782.6
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.005805
Std Dev 1.063
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

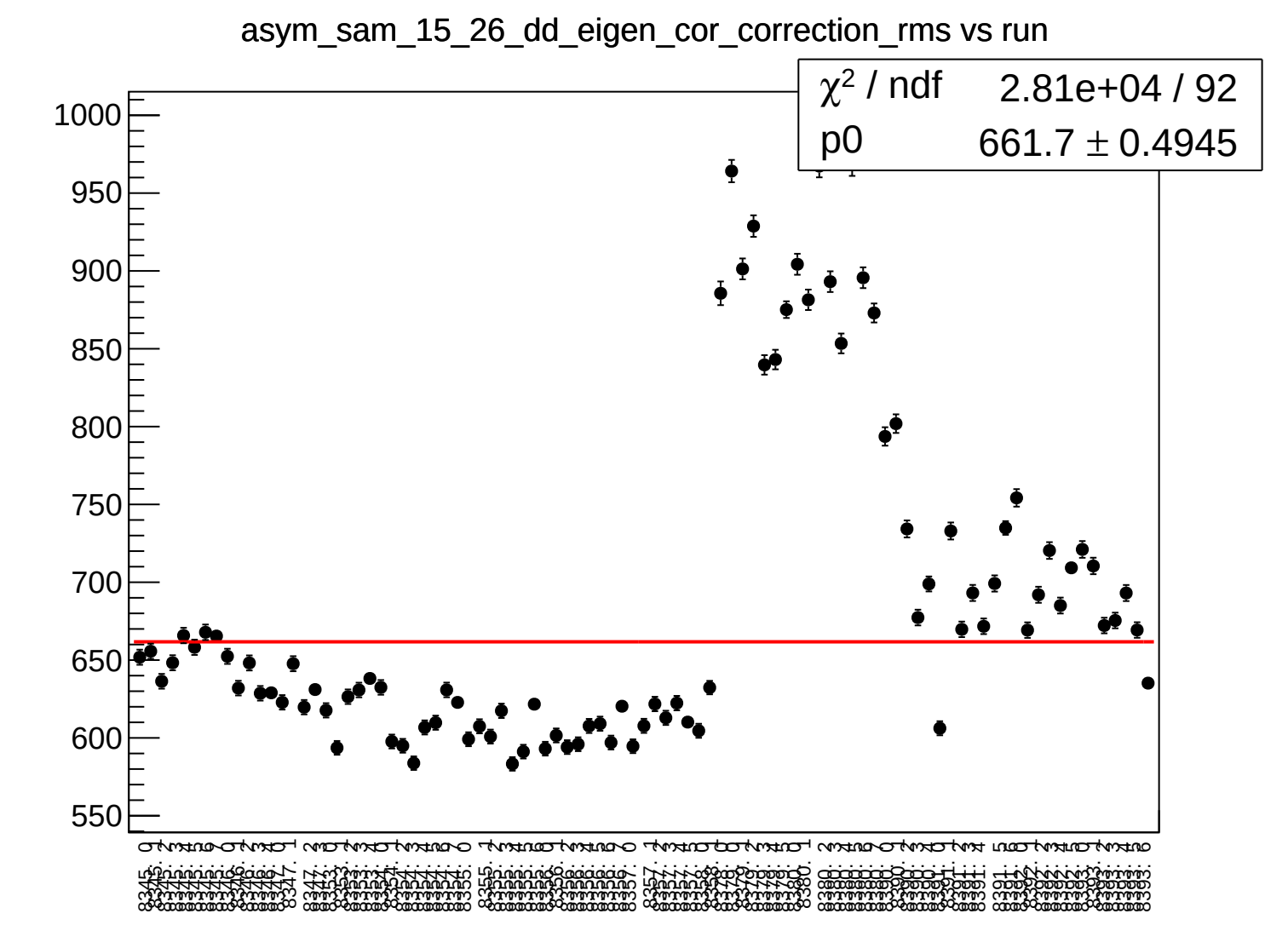

asym_sam_15_26_dd_cor_correction_rms vs run
χ² / ndf 2.81e+04 / 92
p0 661.7 ± 0.4945
1000
950
900
850
800
750
700
650
600
550

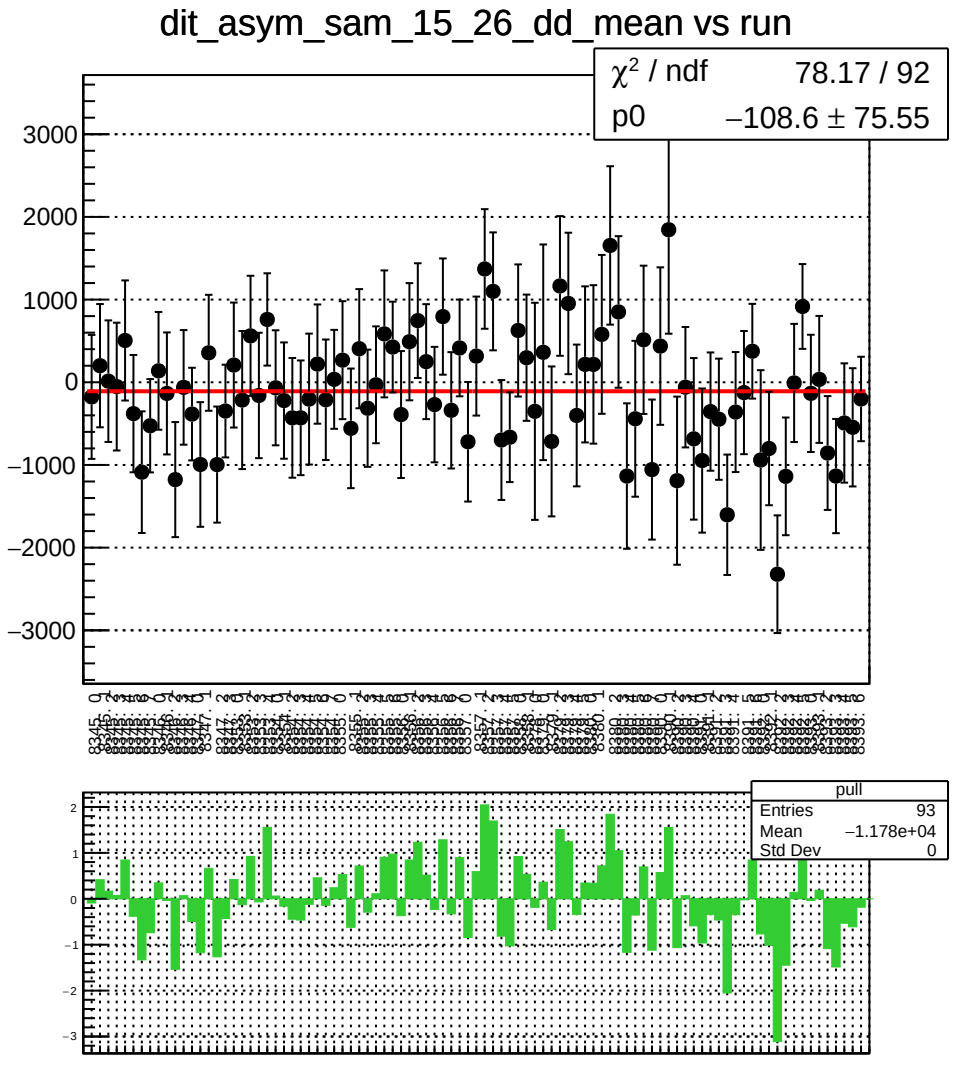

eigen_cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 73.35 / 92
p0 −14.72 ± 67.75
pull
Entries 93
Mean −113.2
Std Dev 0

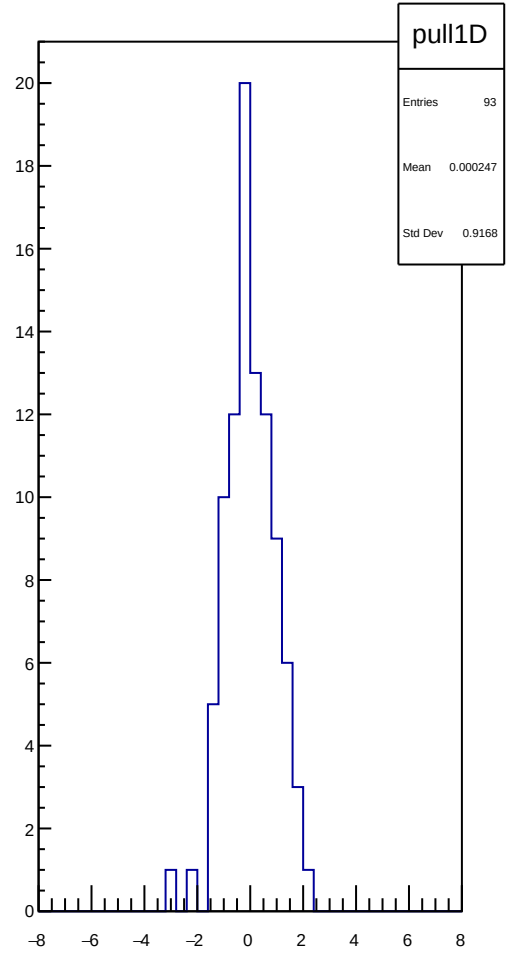

pull1D
Entries 93
Mean 0.006639
Std Dev 0.8881

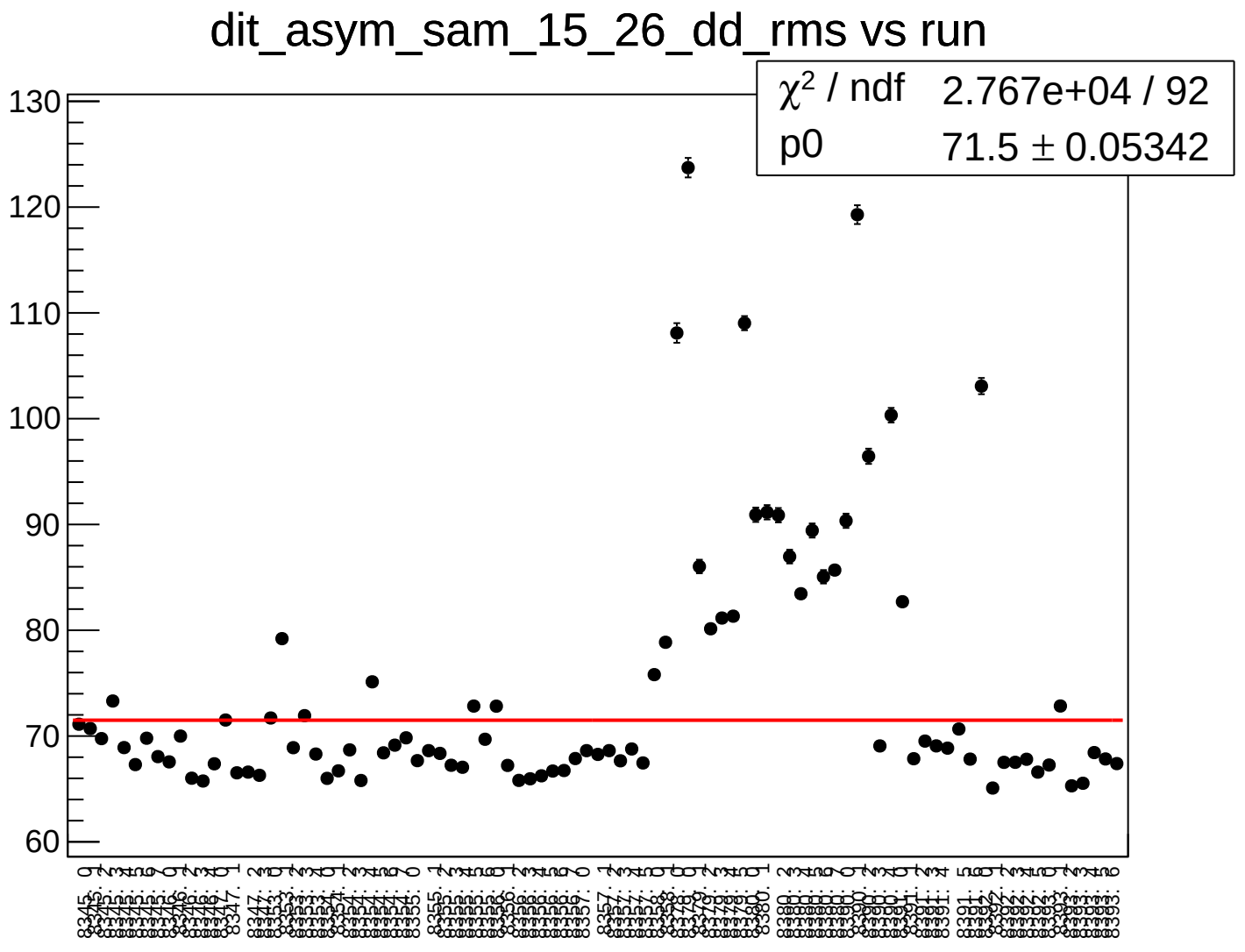

eigen_cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 2.813e+04 / 92
p0 64.11 ± 0.0479
120
110
100
90
80
70
60

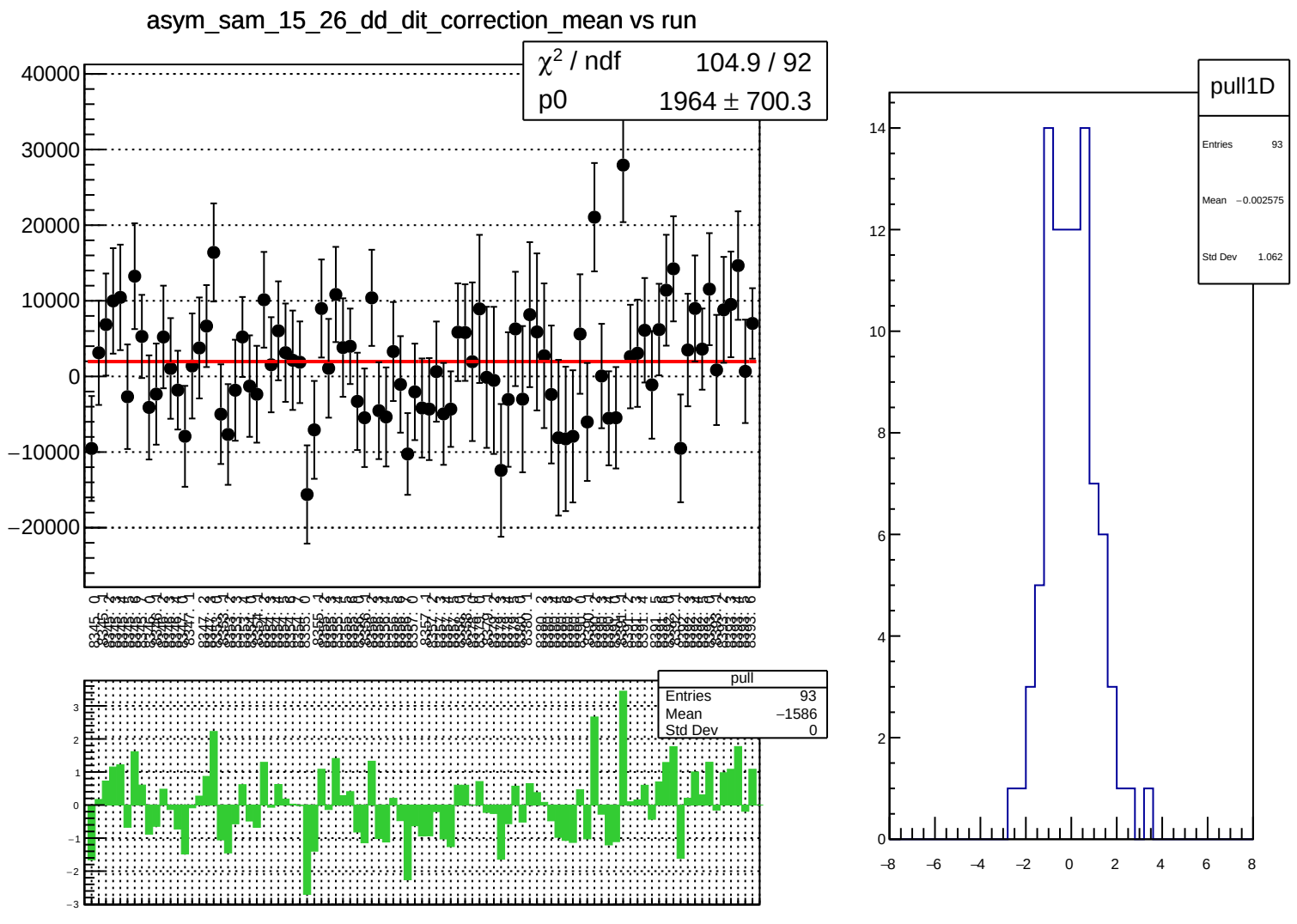

asym_sam_15_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 105.2 / 92
p0 1948 ± 699.3
40000
30000
20000
10000
0
−10000
−20000
pull
Entries 93
Mean 782.6
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.005805
Std Dev 1.063
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

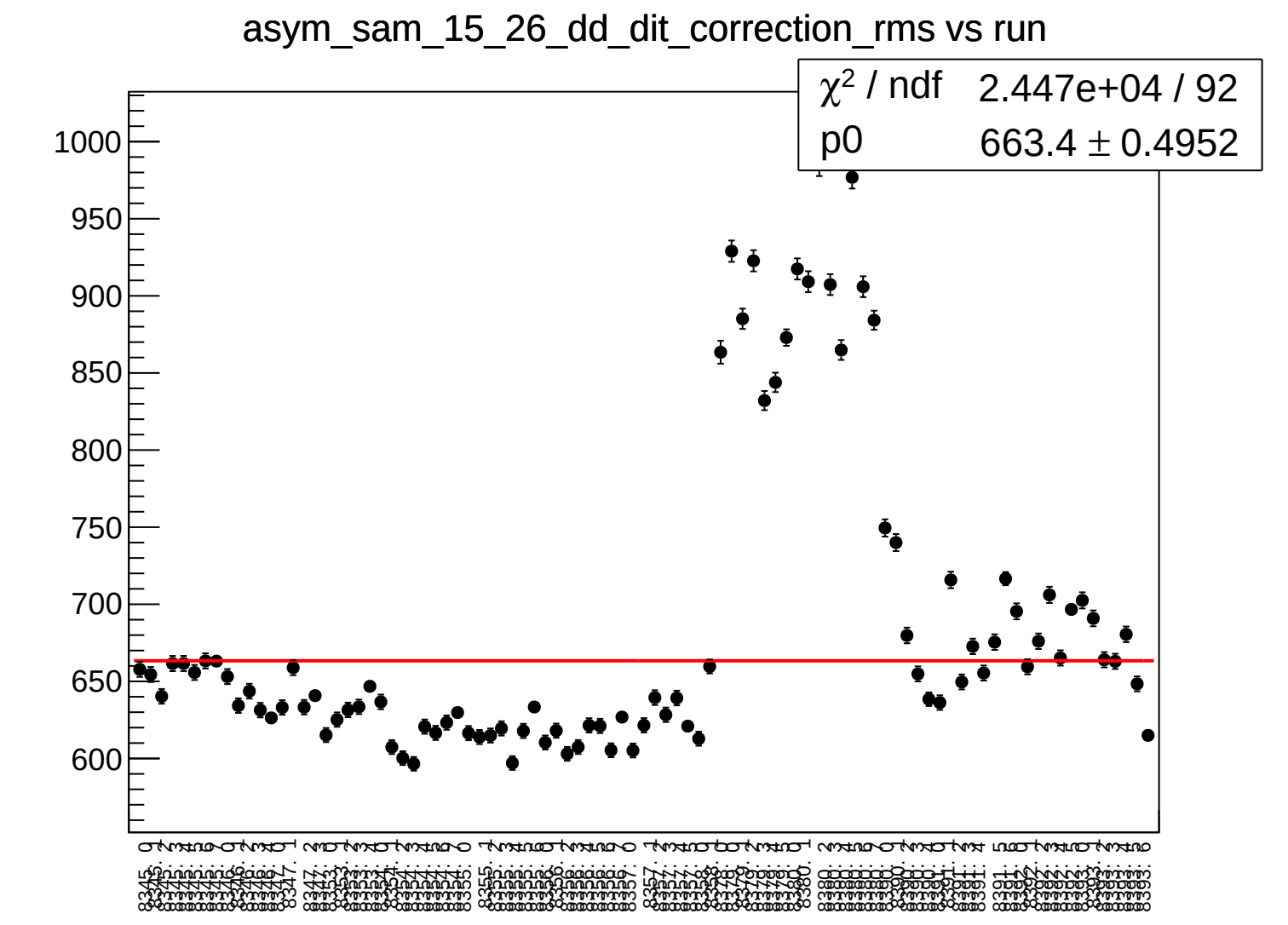

asym_sam_15_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.81e+04 / 92
p0 661.7 ± 0.4945
1000
950
900
850
800
750
700
650
600
550

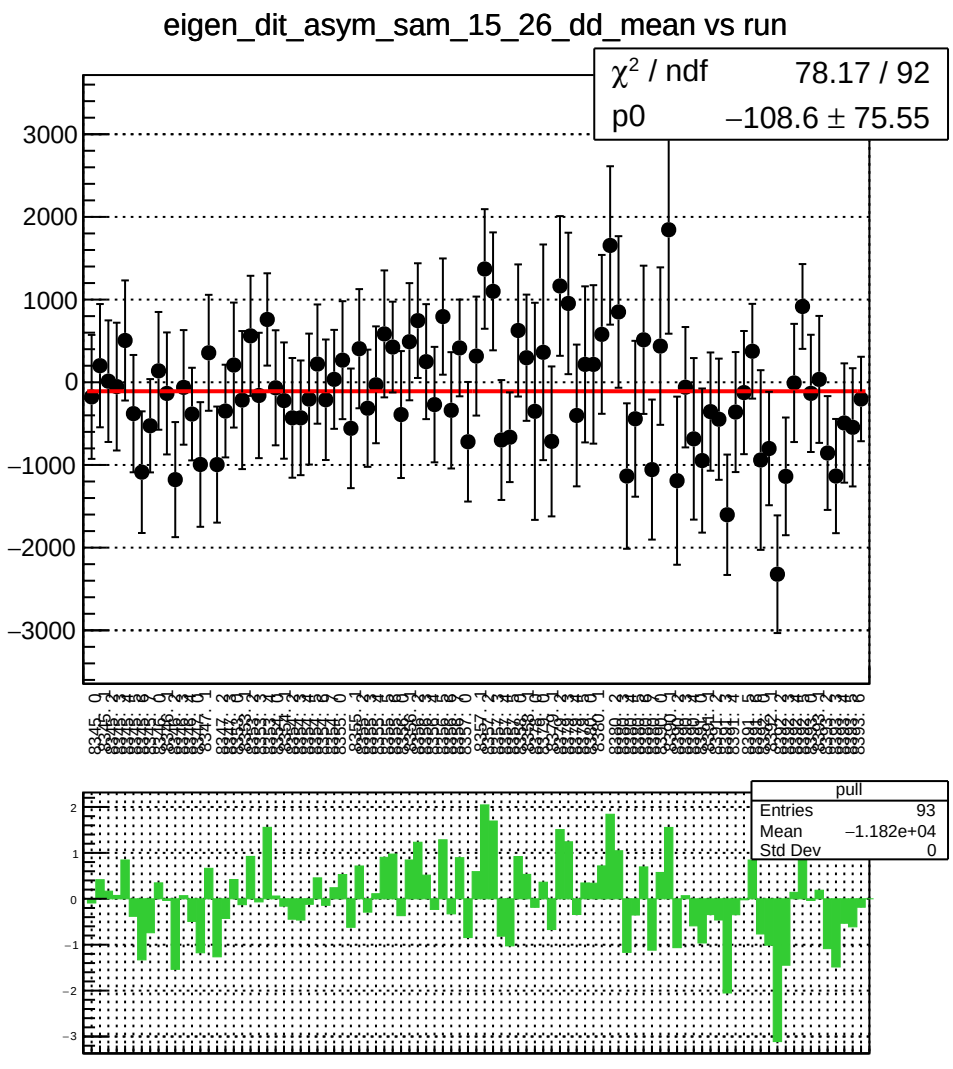

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 78.17 / 92
p0 −108.6 ± 75.55
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean −1.178e+04
Std Dev 0
2
1
0
−1
−2
−3

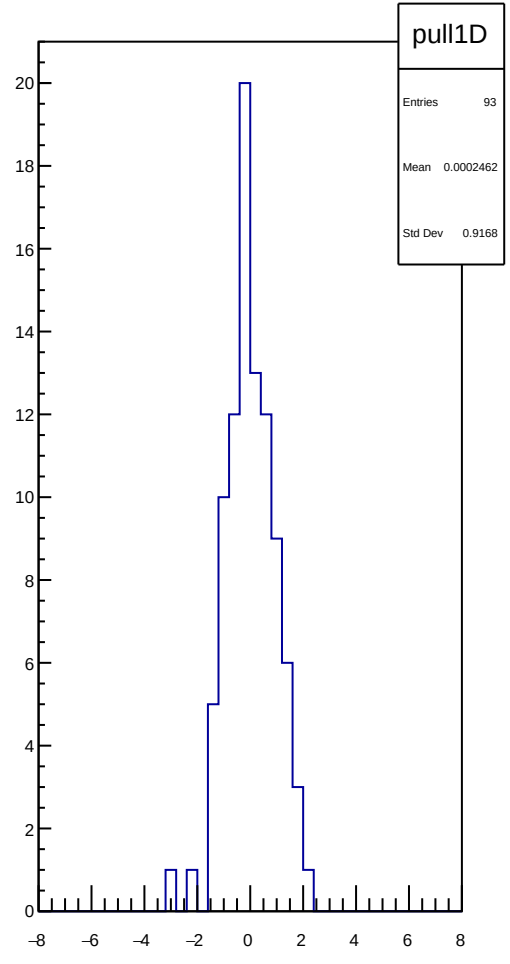

pull1D
Entries 93
Mean 0.000247
Std Dev 0.9168
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

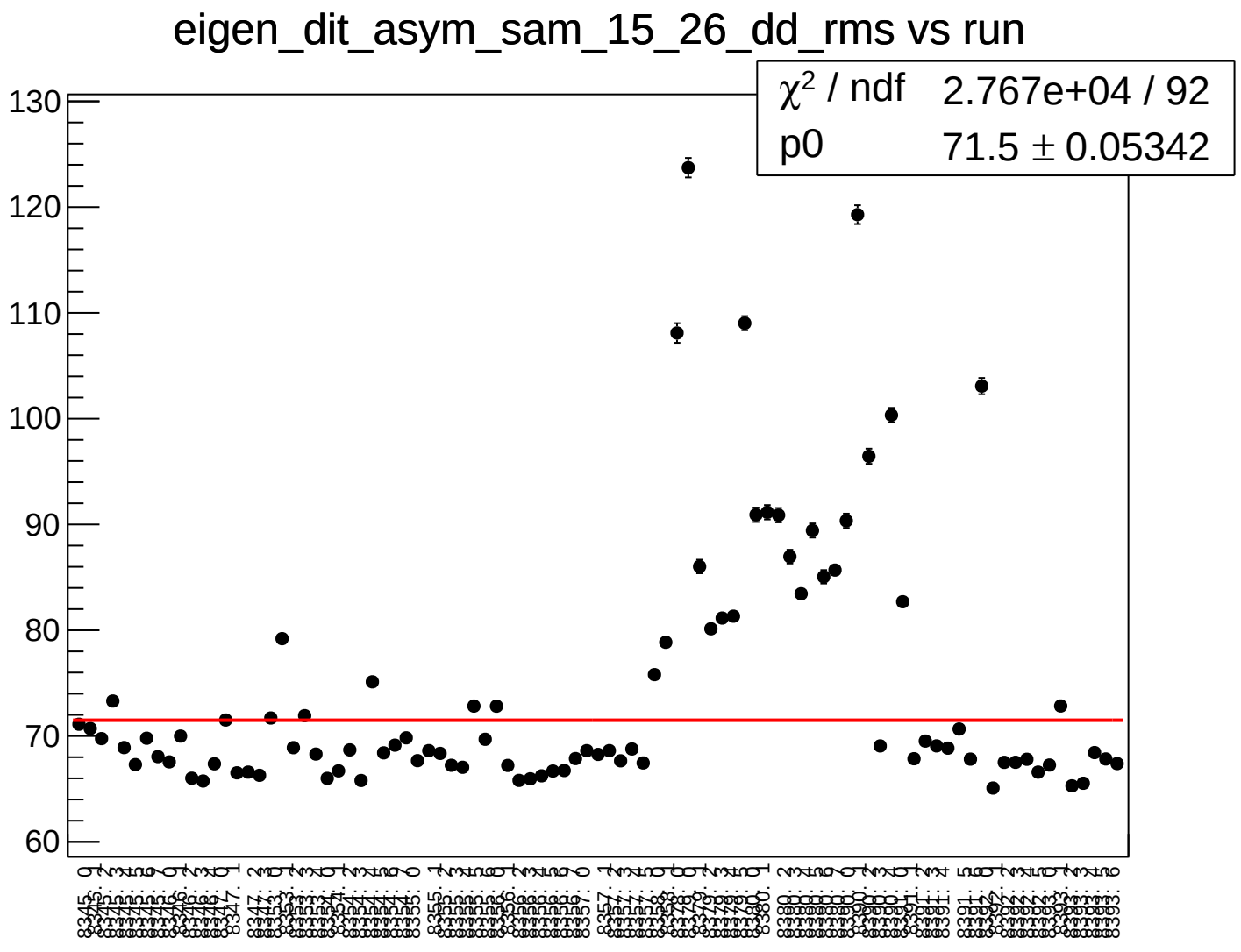

dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 2.767e+04 / 92
p0 71.5 ± 0.05342
130
120
110
100
90
80
70
60

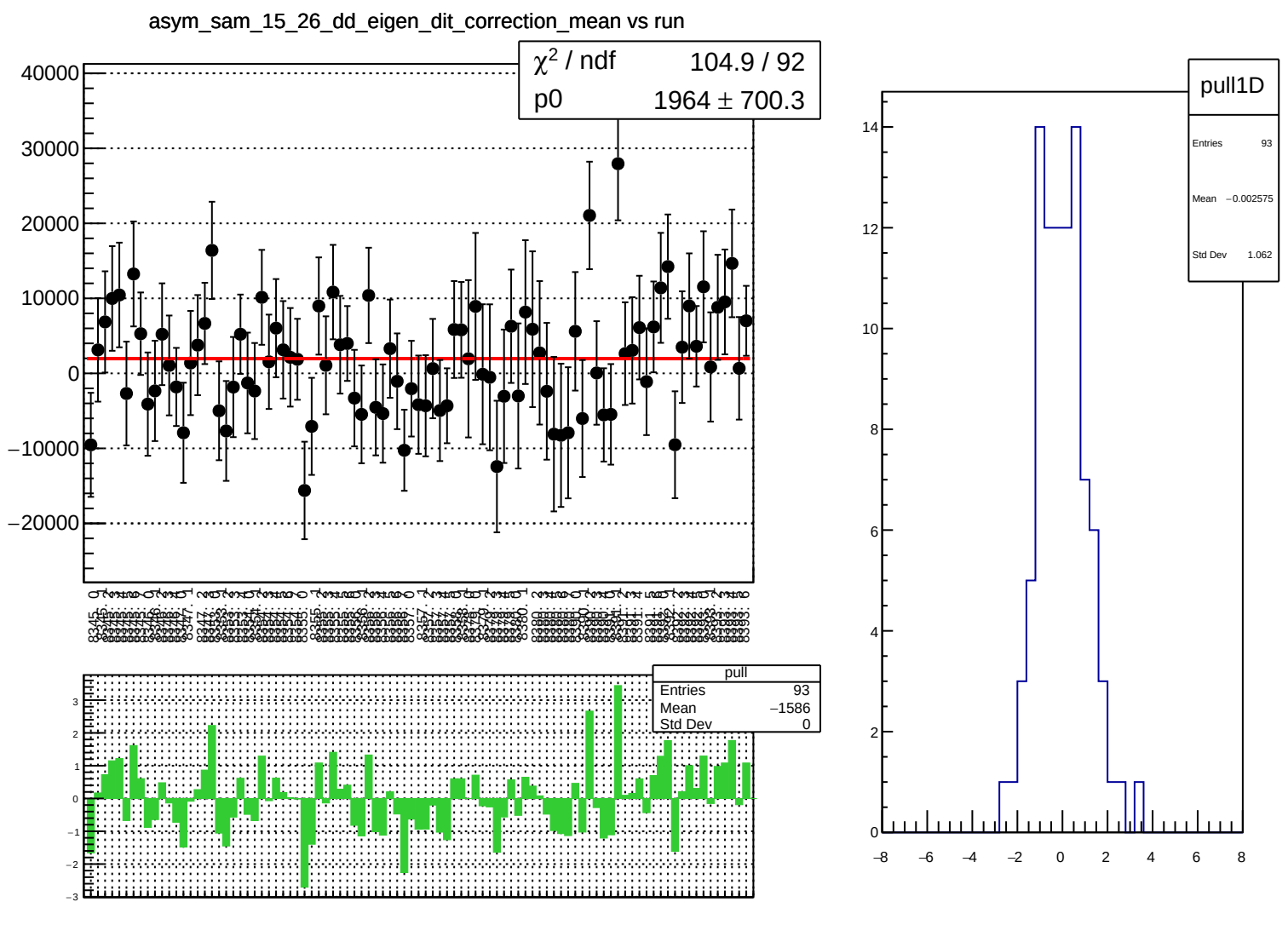

asym_sam_15_26_dd_dit_correction_mean vs run
χ² / ndf 104.9 / 92
p0 1964 ± 700.3
40000
30000
20000
10000
0
−10000
−20000
pull
Entries 93
Mean −1586
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.002575
Std Dev 1.062
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

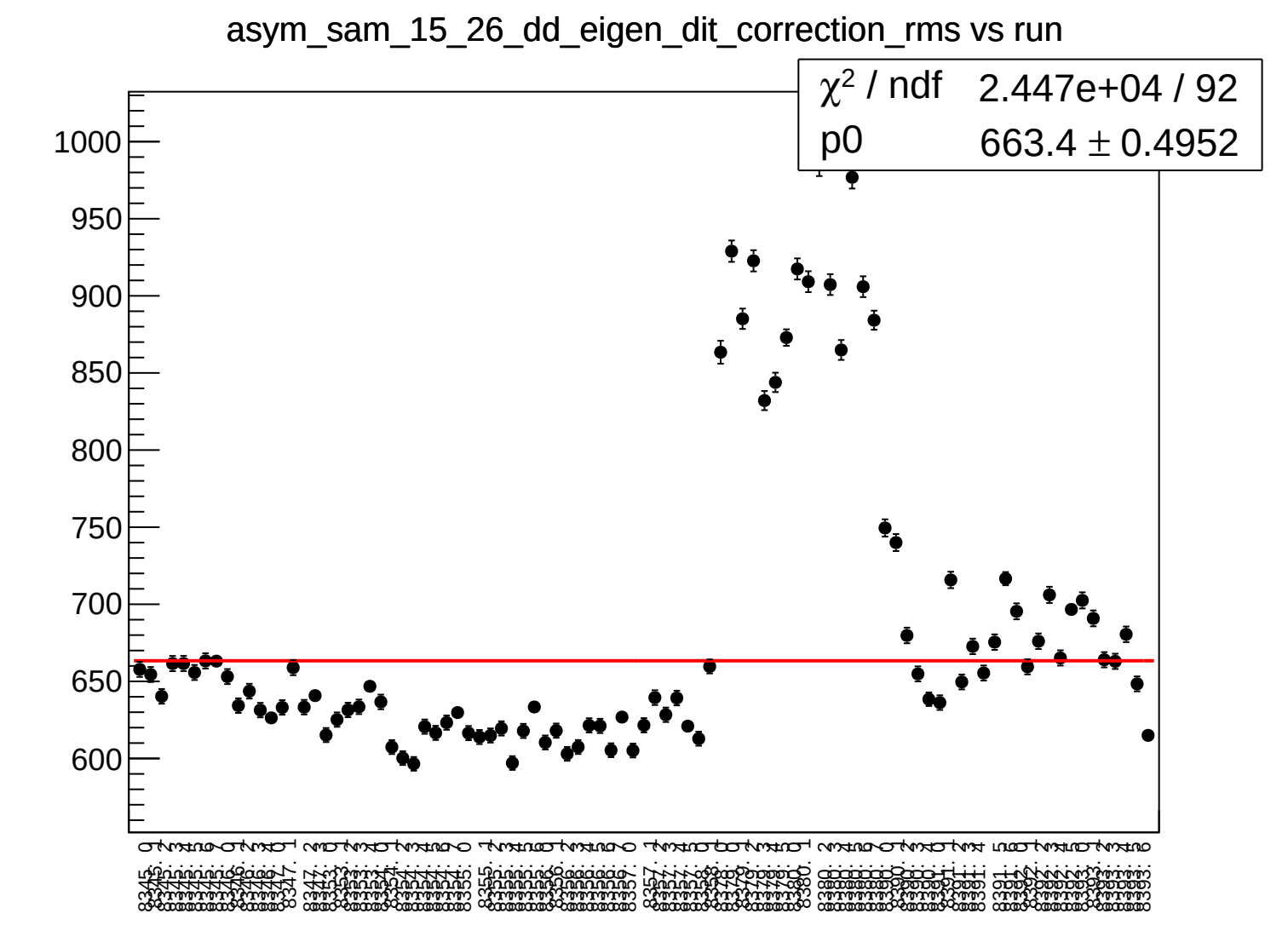

asym_sam_15_26_dd_dit_correction_rms vs run
χ² / ndf 2.447e+04 / 92
p0 663.4 ± 0.4952
1000
950
900
850
800
750
700
650
600

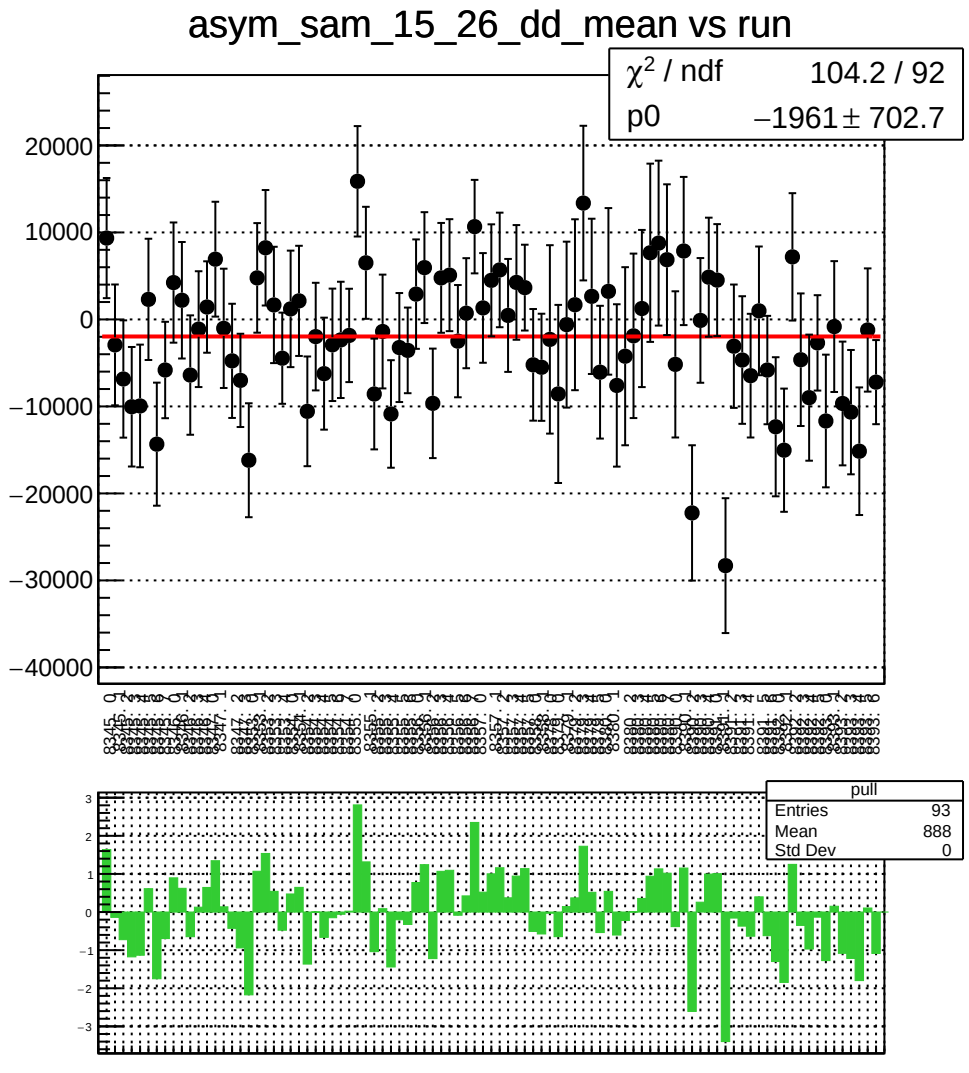

eigen_dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 78.17 / 92
p0 −108.6 ± 75.55
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean −1.182e+04
Std Dev 0
2
1
0
−1
−2
−3

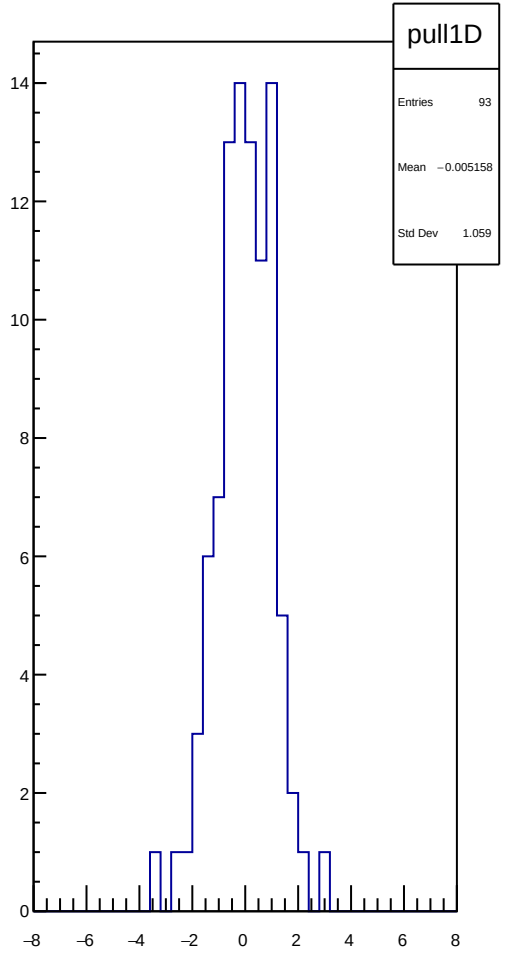

pull1D
Entries 93
Mean 0.0002462
Std Dev 0.9168
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

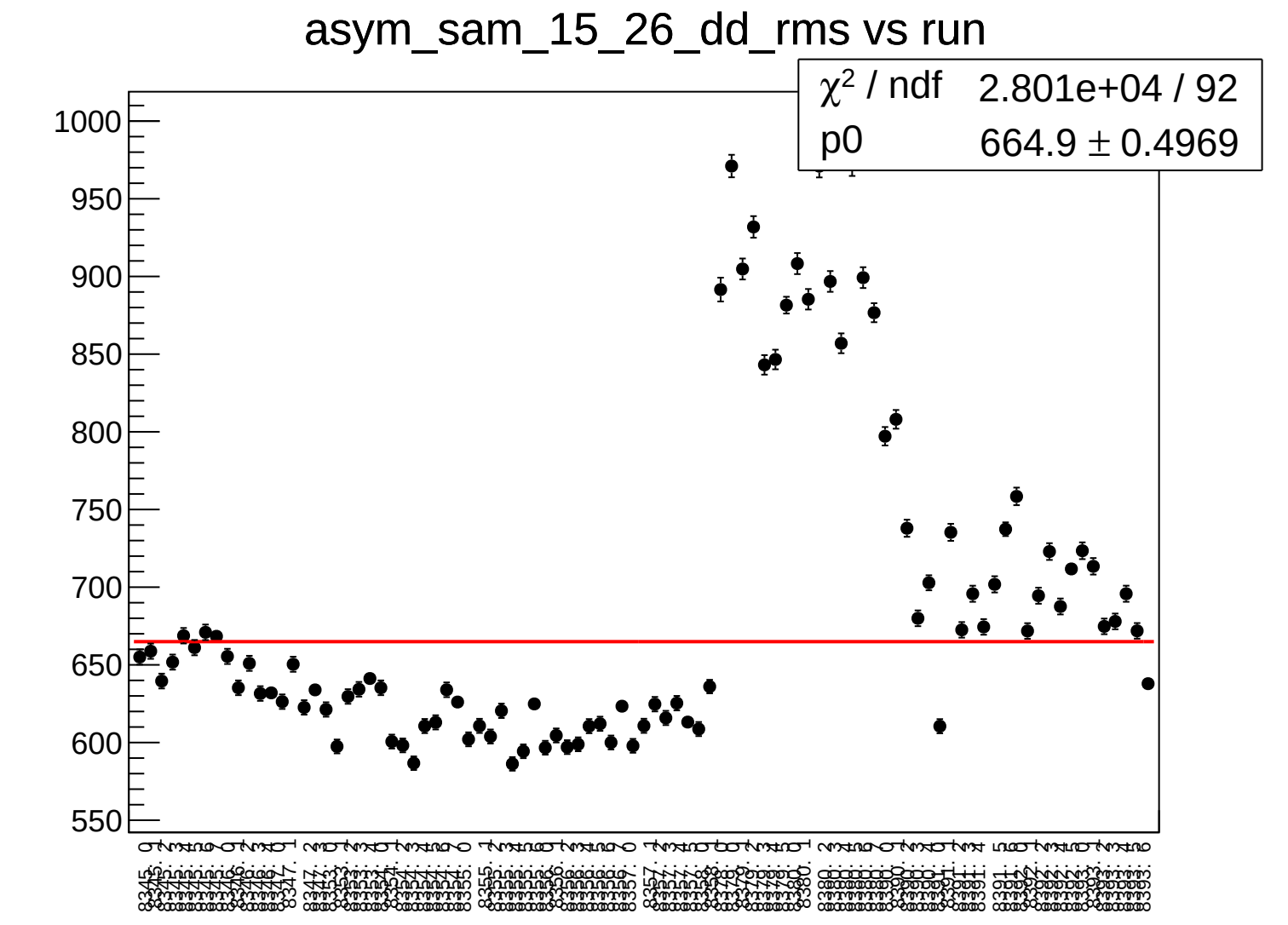

eigen_dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 2.767e+04 / 92
p0 71.5 ± 0.05342
130
120
110
100
90
80
70
60

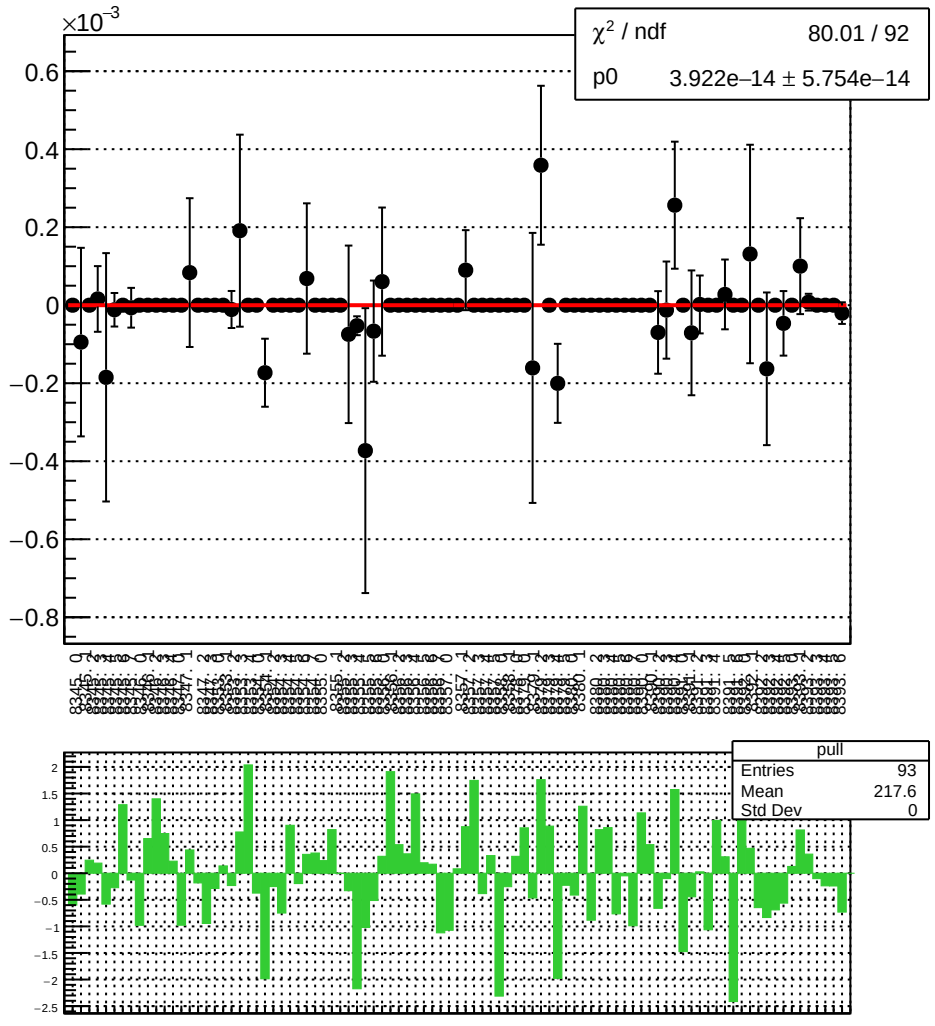

asym_sam_15_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 104.9 / 92
p0 1964 ± 700.3
40000
30000
20000
10000
0
−10000
−20000
pull
Entries 93
Mean −1586
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.002575
Std Dev 1.062
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

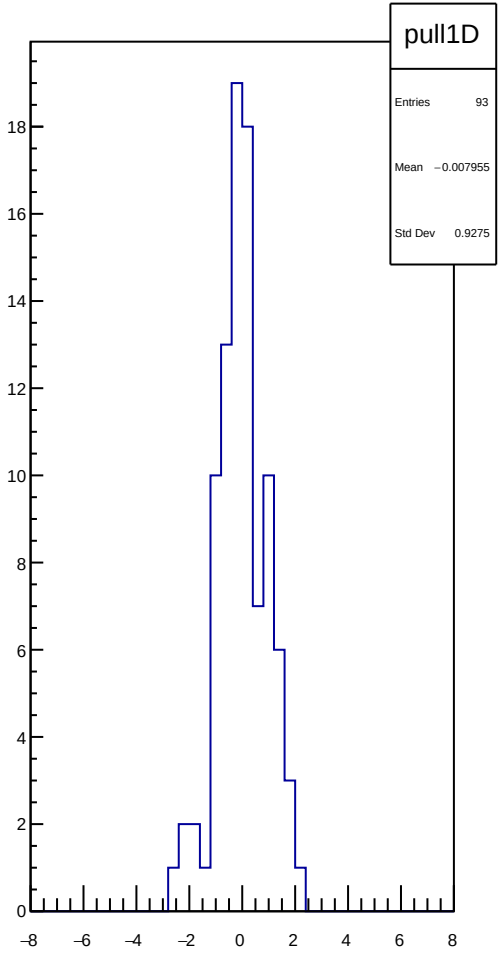

asym_sam_15_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.447e+04 / 92
p0 663.4 ± 0.4952
1000
950
900
850
800
750
700
650
600

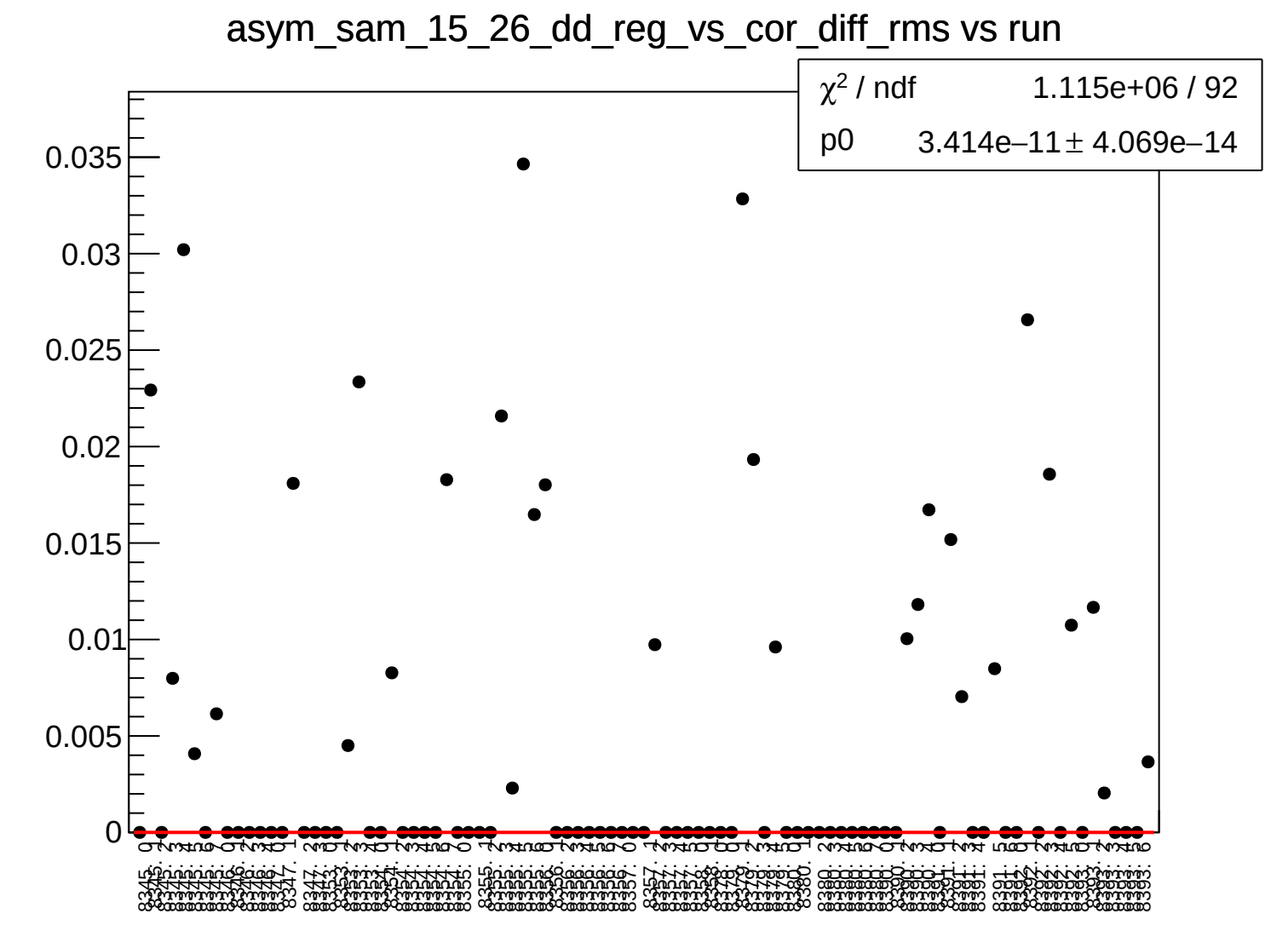

asym_sam_15_26_dd_mean vs run
χ² / ndf 104.2 / 92
p0 −1961 ± 702.7
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean 888
Std Dev 0
3
2
1
0
−1
−2
−3

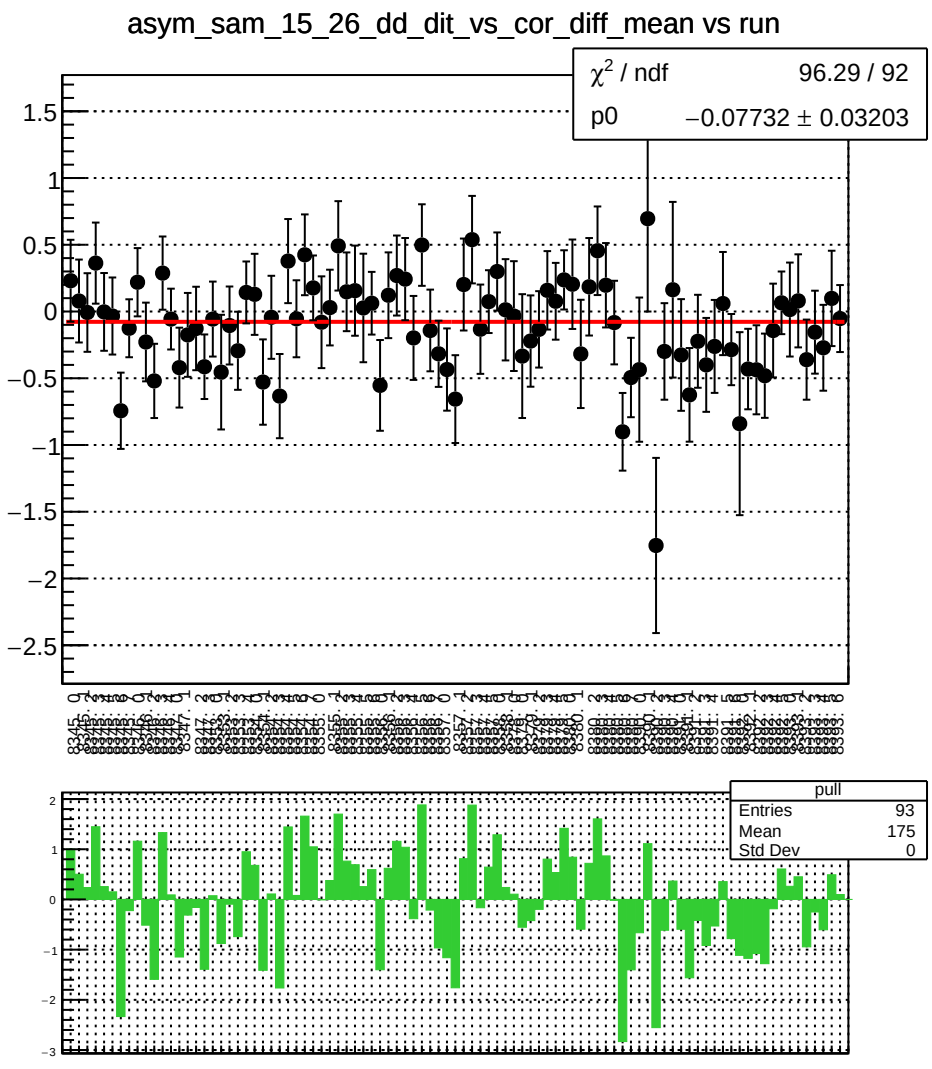

pull1D
Entries 93
Mean −0.005158
Std Dev 1.059
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

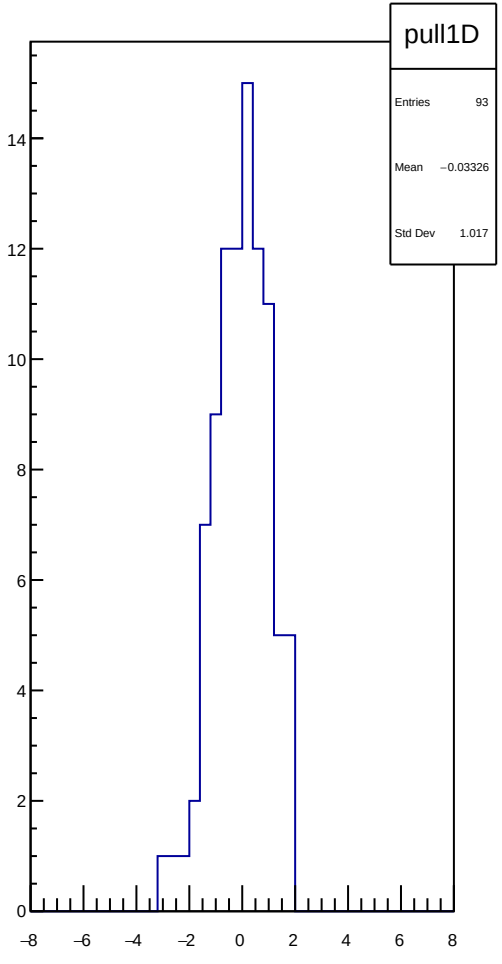

asym_sam_15_26_dd_rms vs run
χ^2 / ndf 2.801e+04 / 92
p0 664.9 ± 0.4969
1000
950
900
850
800
750
700
650
600
550

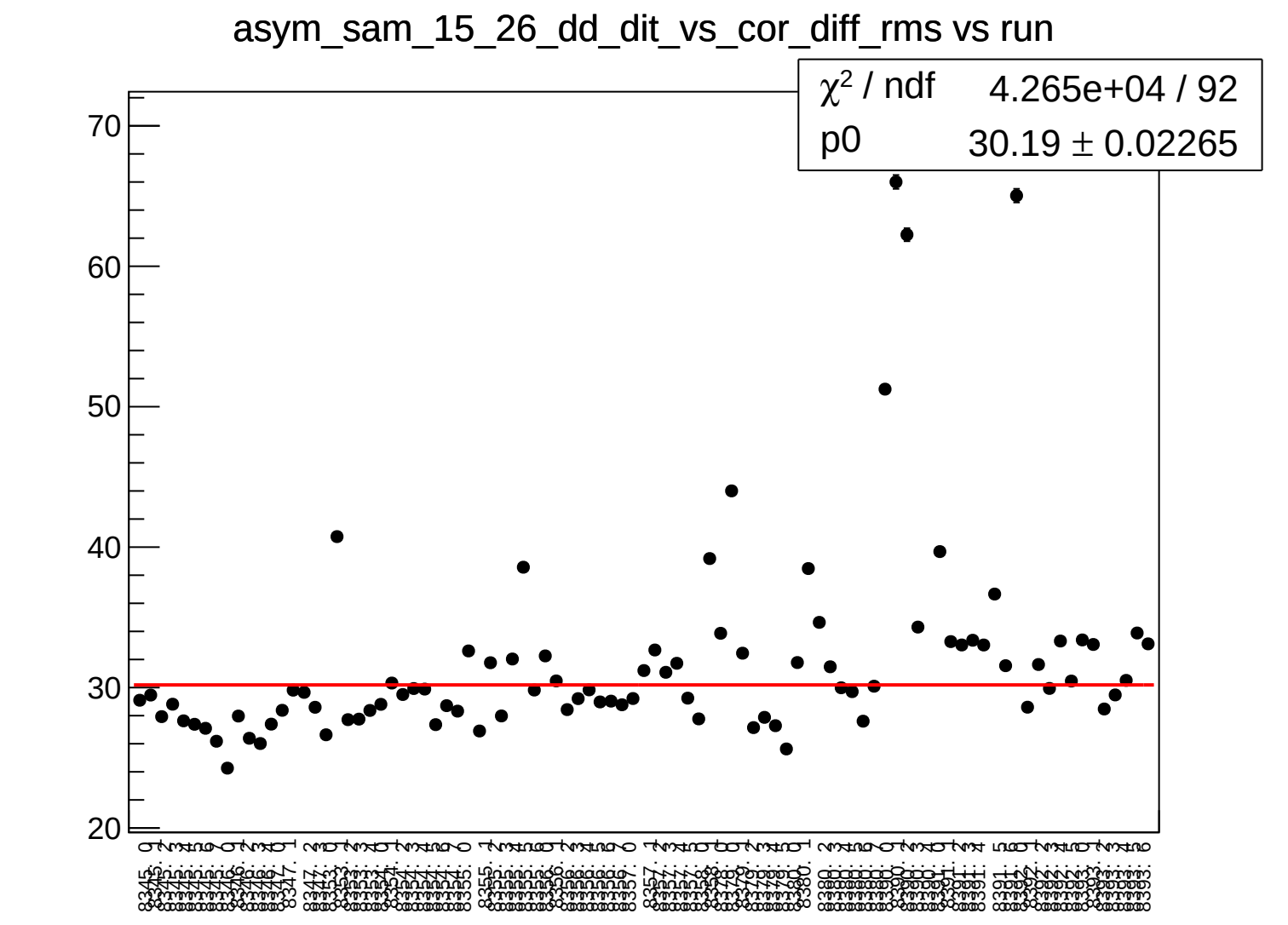

asym_sam_15_26_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 80.01 / 92
p0 3.922e−14 ± 5.754e−14
pull
Entries 93
Mean 217.6
Std Dev 0

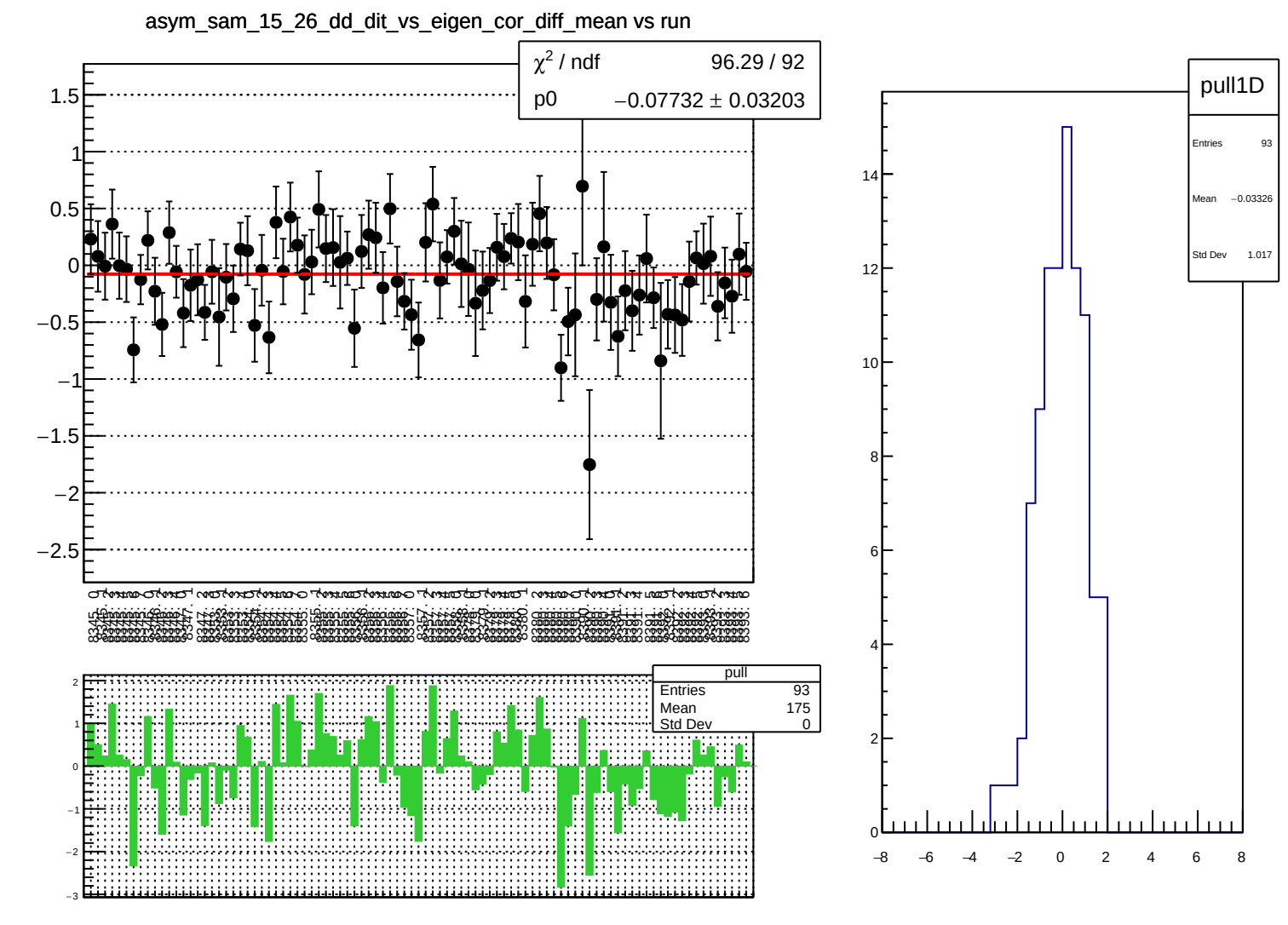

pull1D
Entries 93
Mean −0.007955
Std Dev 0.9275

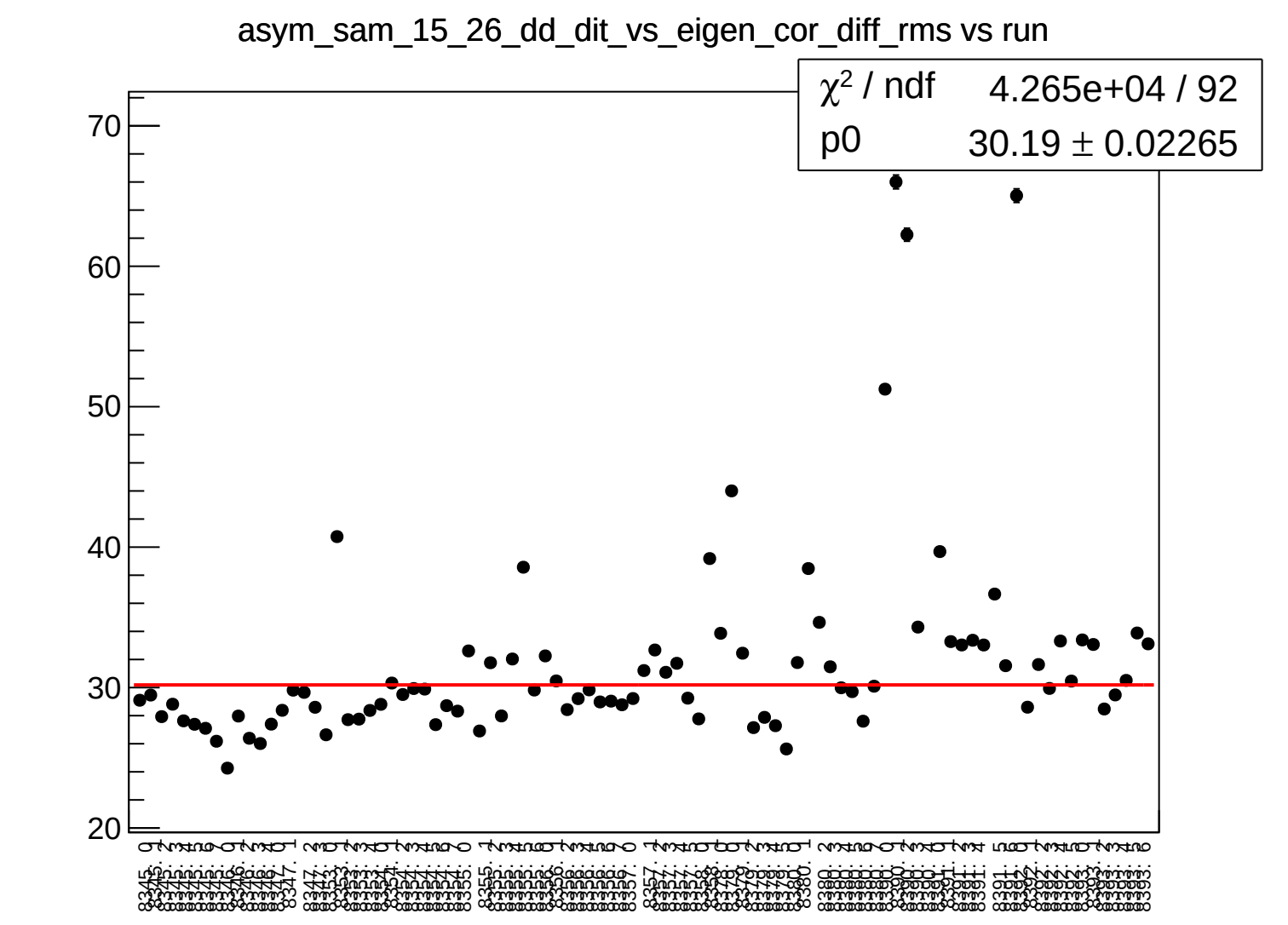

asym_sam_15_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.115e+06 / 92
p0 3.414e−11 ± 4.069e−14
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

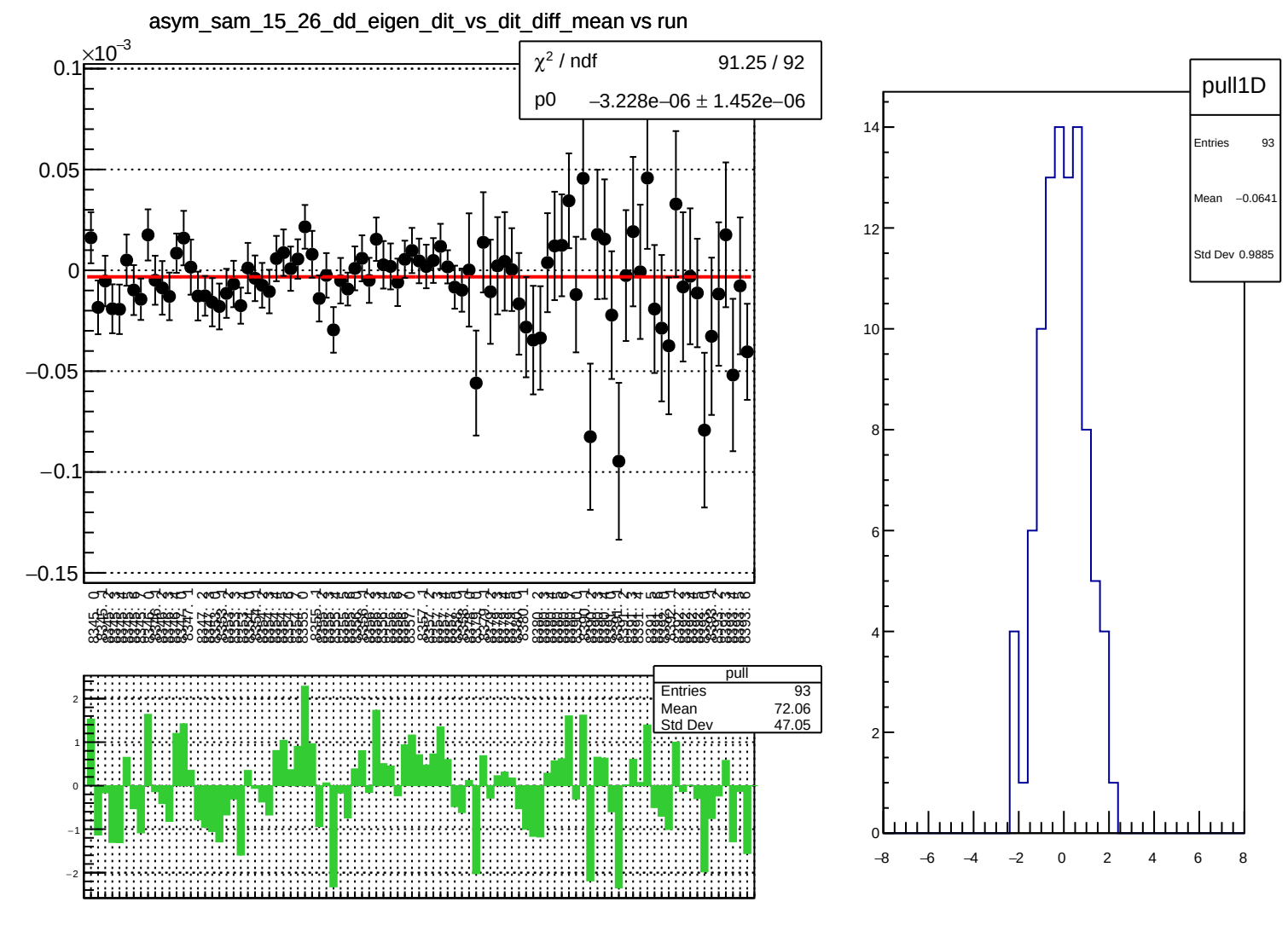

asym_sam_15_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 96.29 / 92
p0 −0.07732 ± 0.03203
pull
Entries 93
Mean 175
Std Dev 0

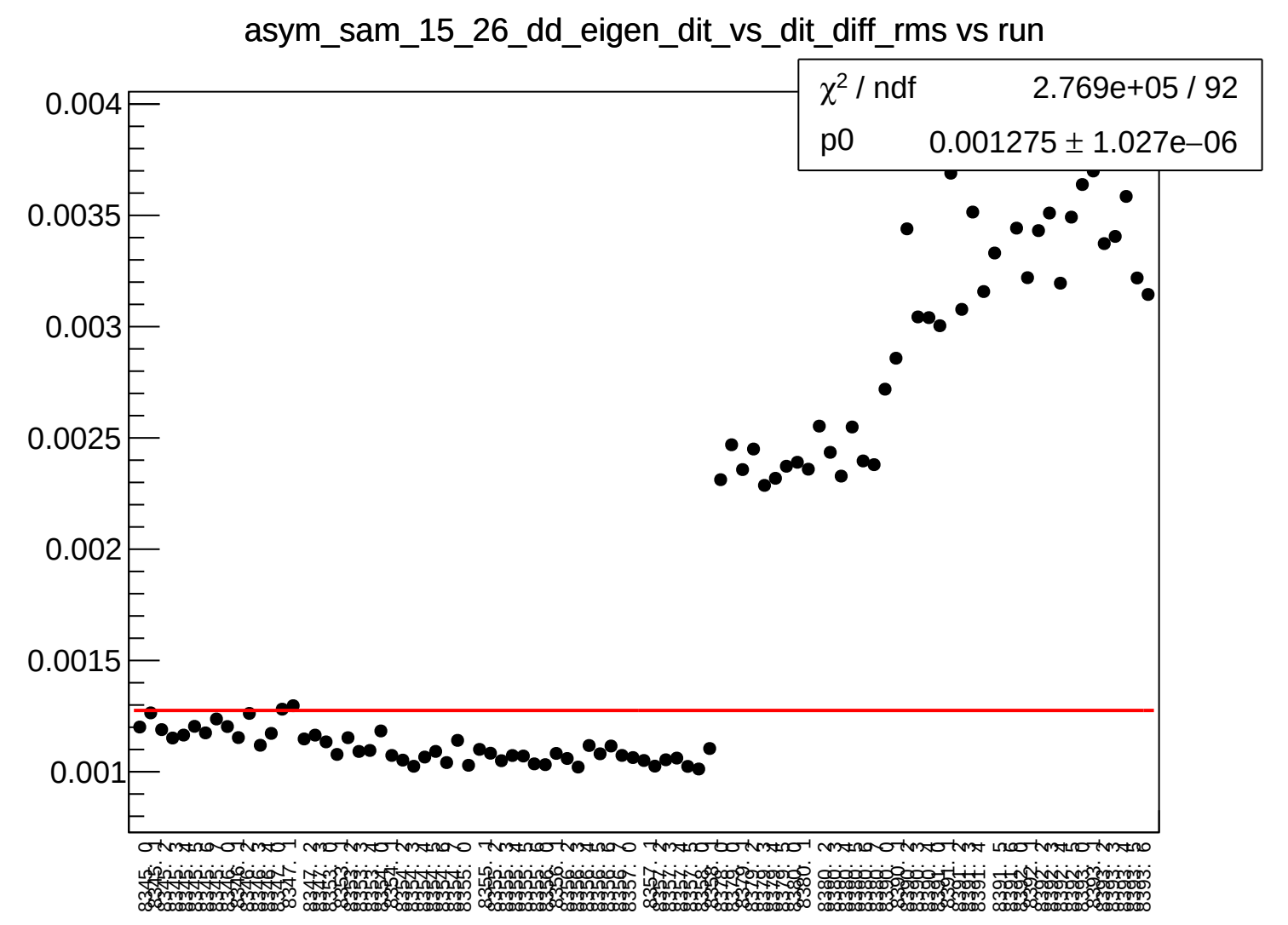

pull1D
Entries 93
Mean −0.03326
Std Dev 1.017

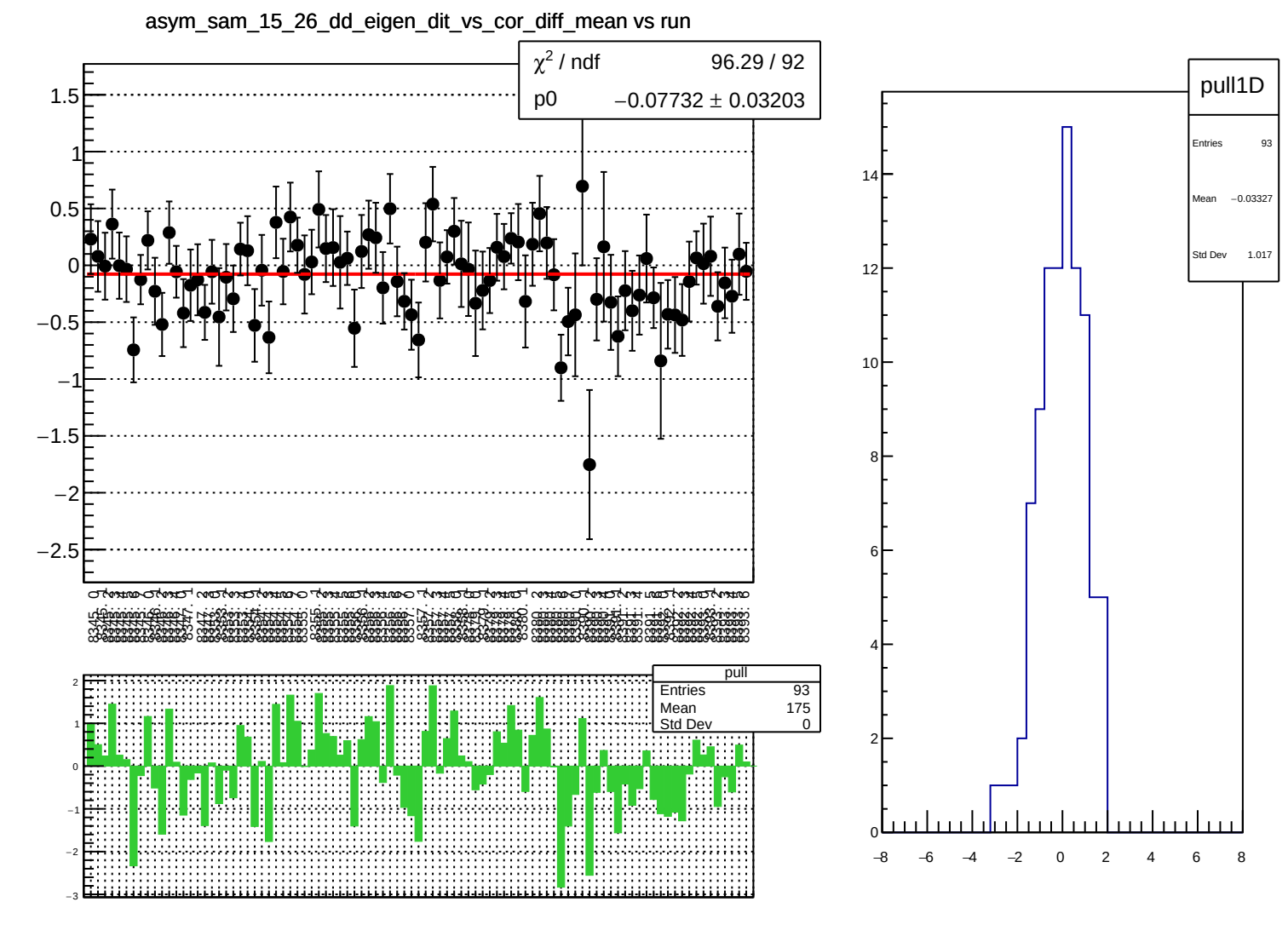

asym_sam_15_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.265e+04 / 92
p0 30.19 ± 0.02265
70
60
50
40
30
20

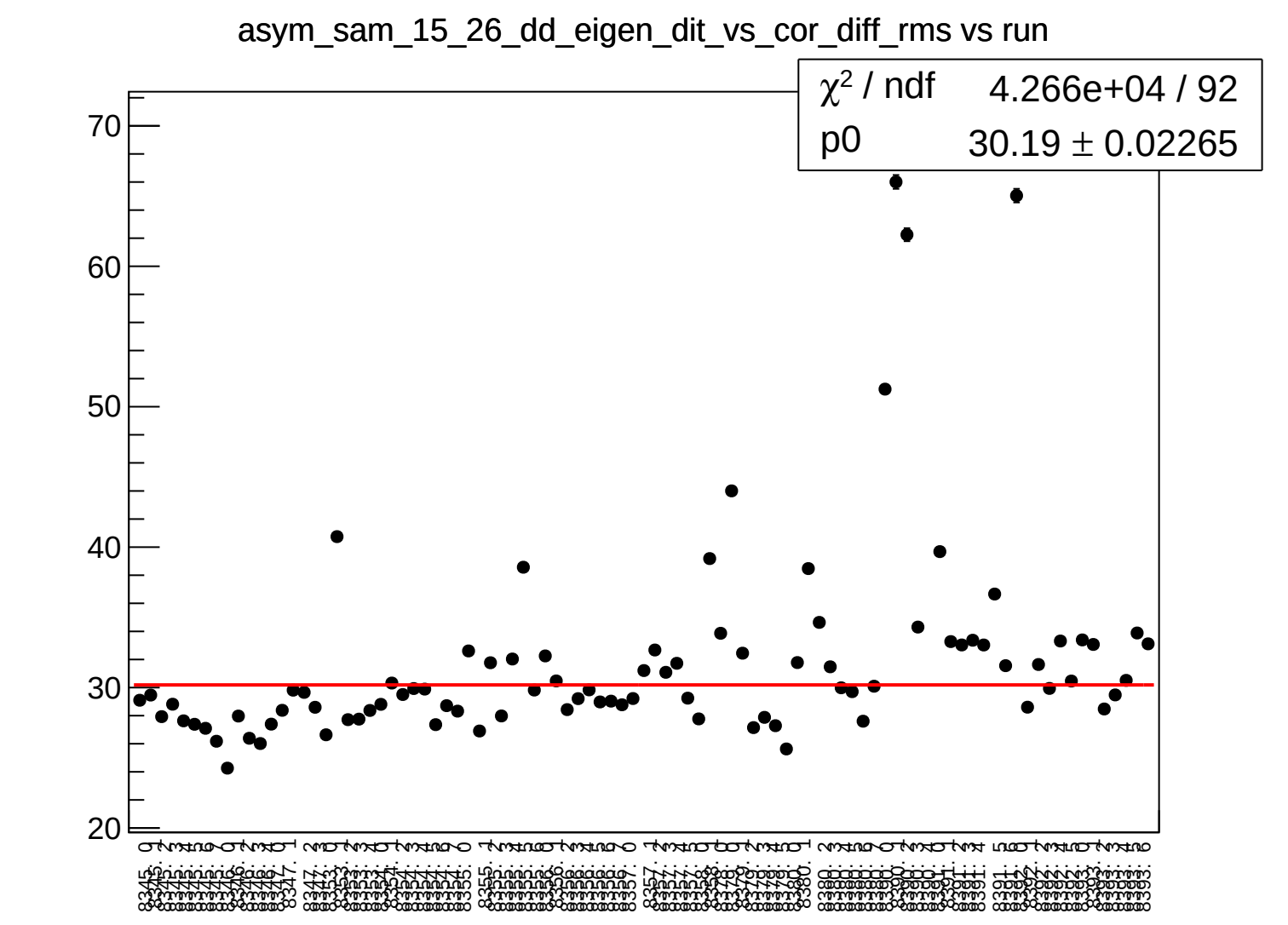

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.29 / 92
p0 −0.07732 ± 0.03203
pull
Entries 93
Mean 175
Std Dev 0
pull1D
Entries 93
Mean −0.03326
Std Dev 1.017

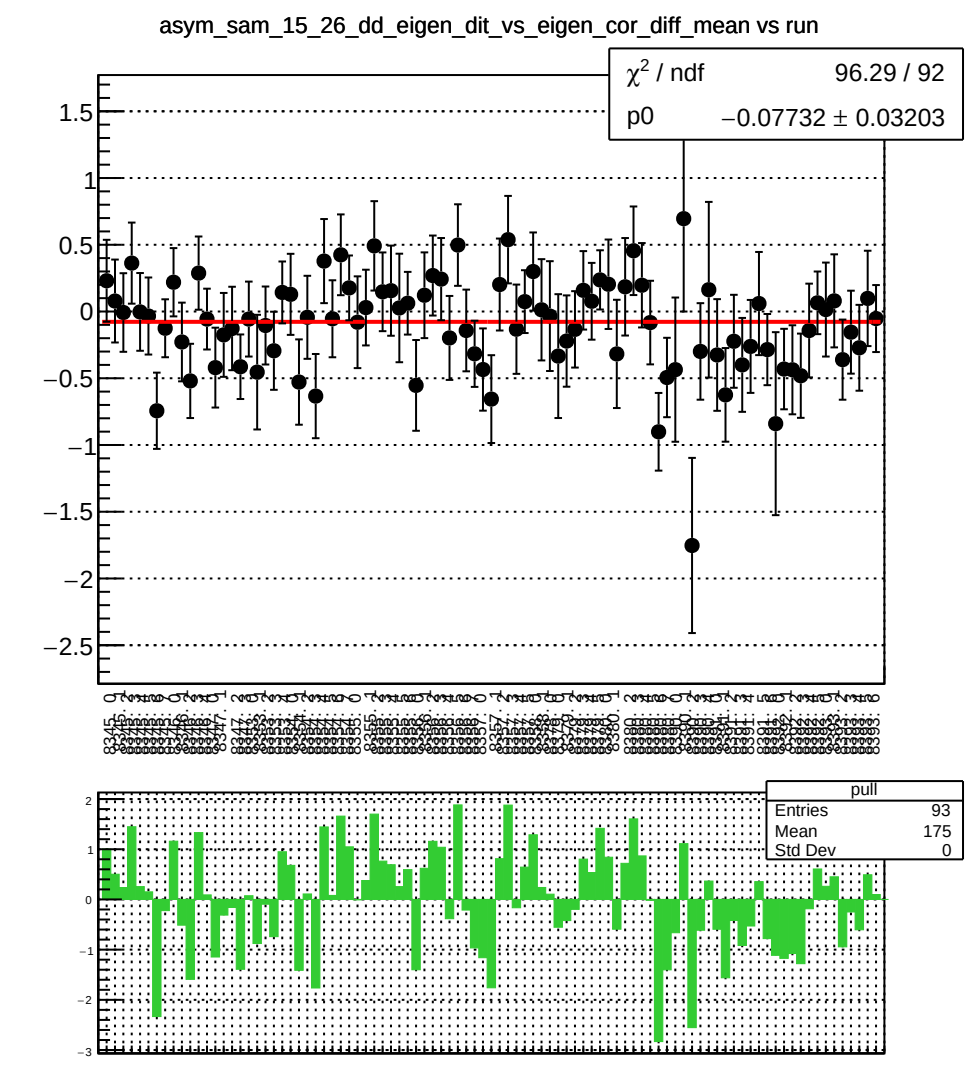

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.265e+04 / 92
p0 30.19 ± 0.02265
70
60
50
40
30
20

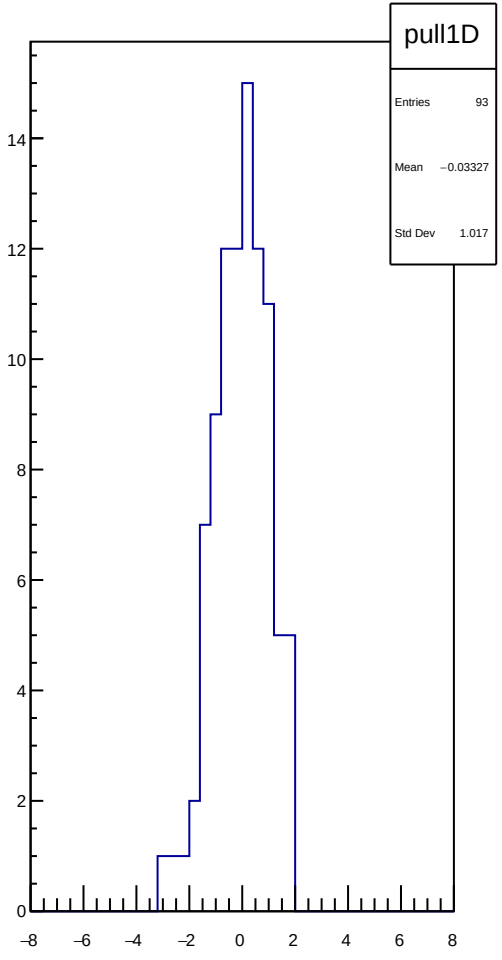

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.25 / 92
p0 −3.228e−06 ± 1.452e−06
pull
Entries 93
Mean 72.06
Std Dev 47.05
pull1D
Entries 93
Mean −0.0641
Std Dev 0.9885

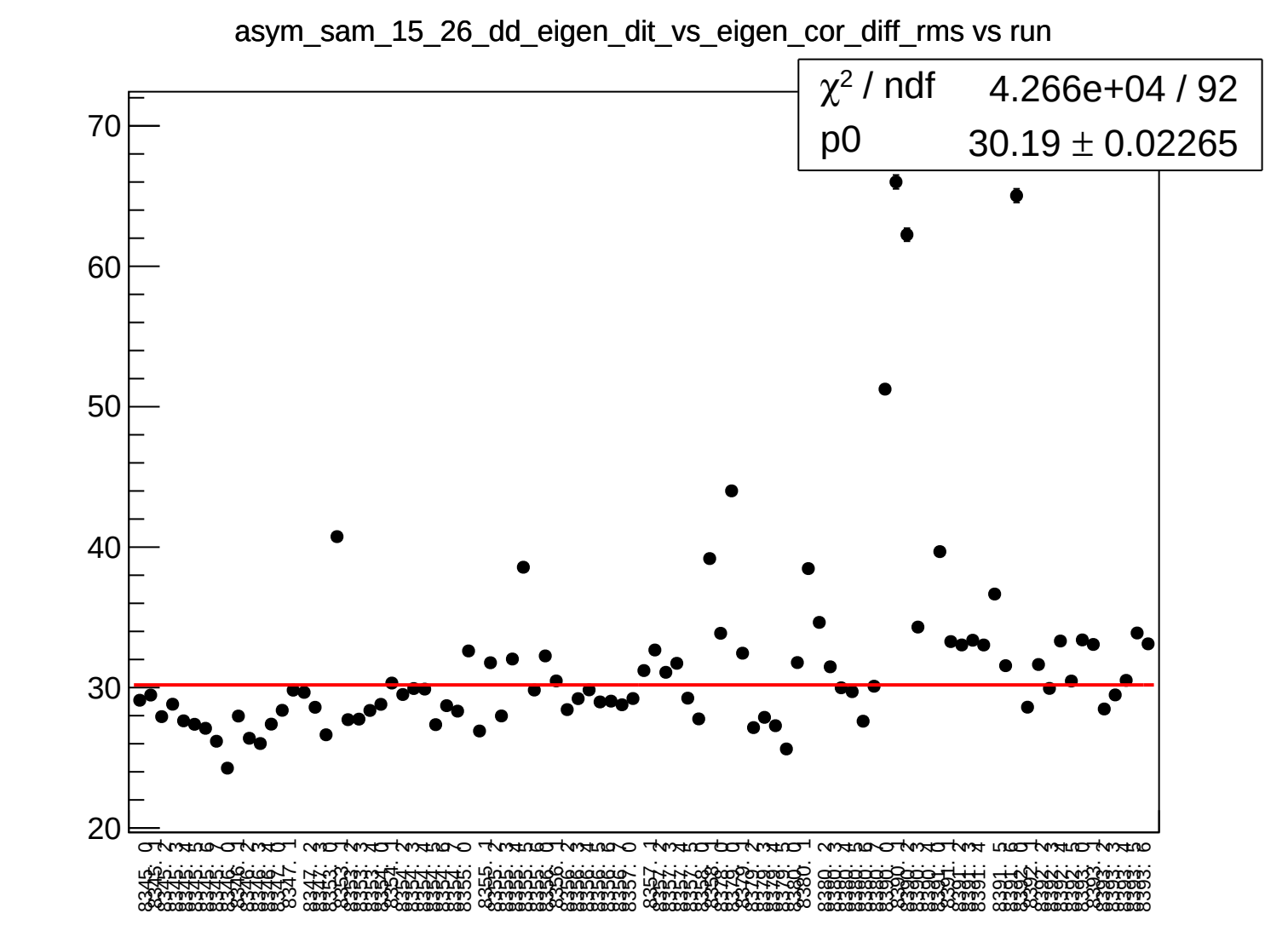

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.769e+05 / 92
p0 0.001275 ± 1.027e−06
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001

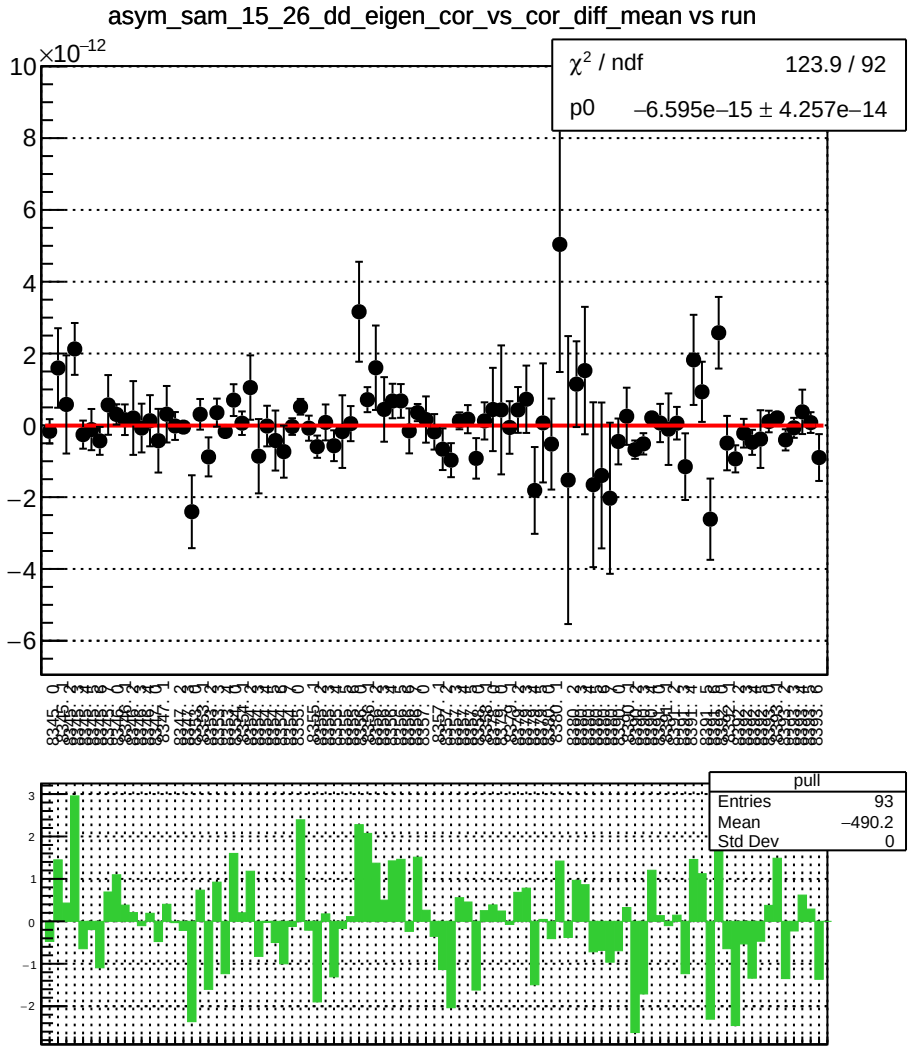

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 96.29 / 92
p0 −0.07732 ± 0.03203
pull
Entries 93
Mean 175
Std Dev 0
pull1D
Entries 93
Mean −0.03327
Std Dev 1.017

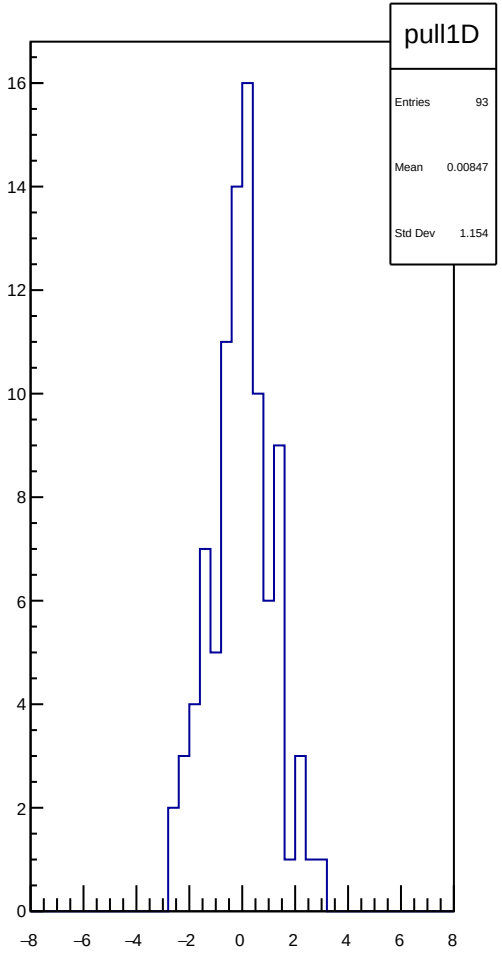

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.266e+04 / 92
p0 30.19 ± 0.02265
70
60
50
40
30
20

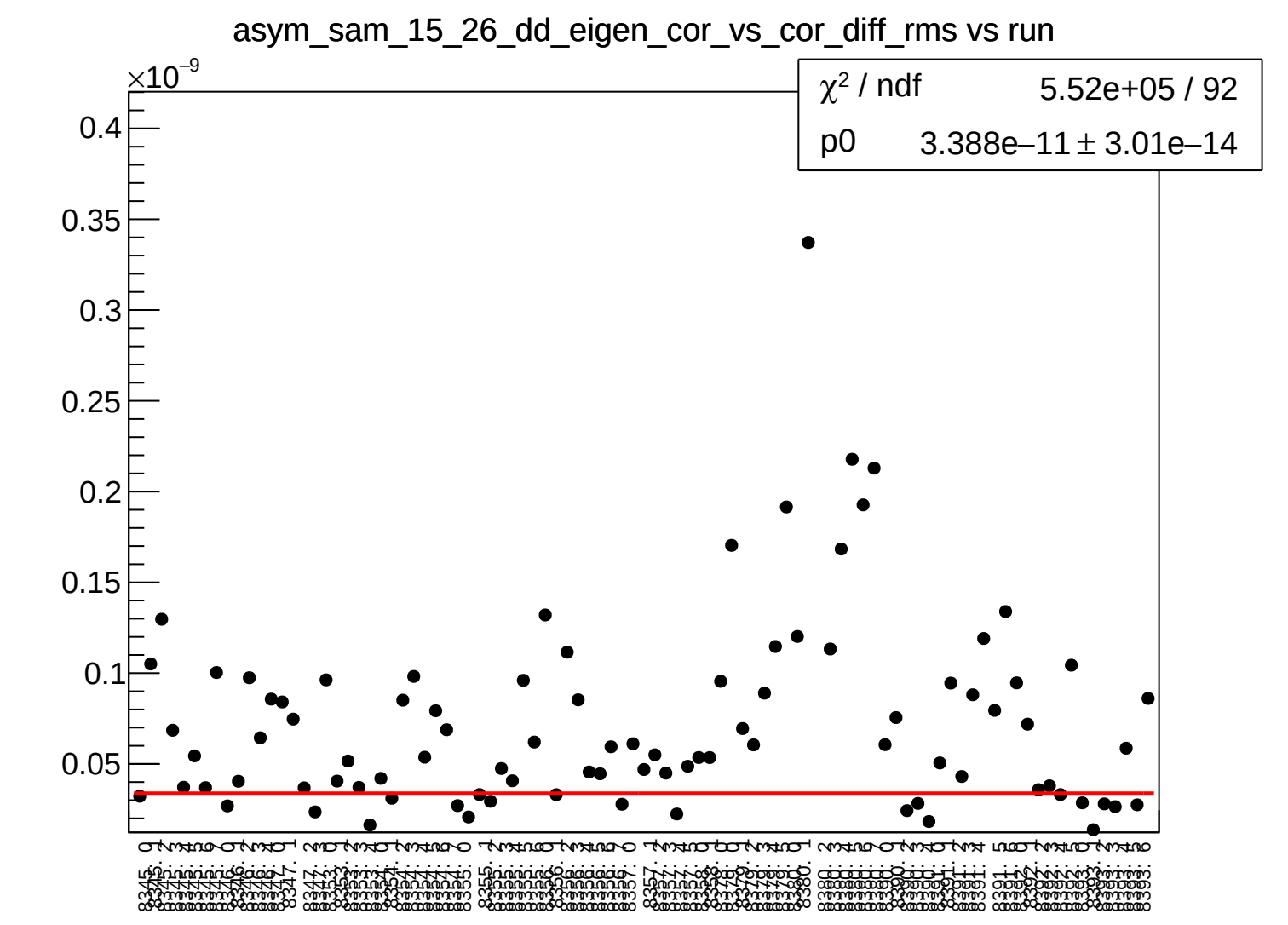

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.29 / 92
p0 −0.07732 ± 0.03203
pull
Entries 93
Mean 175
Std Dev 0

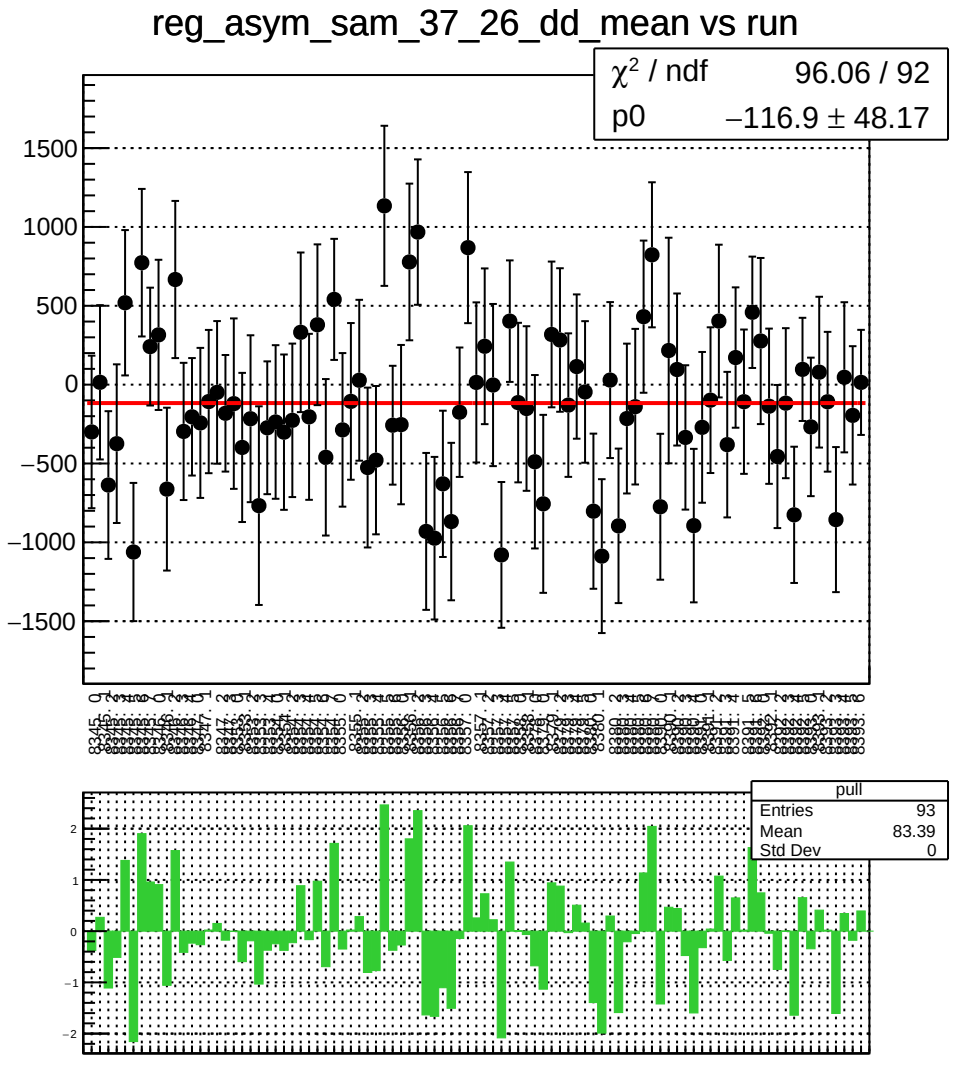

pull1D
Entries 93
Mean −0.03327
Std Dev 1.017

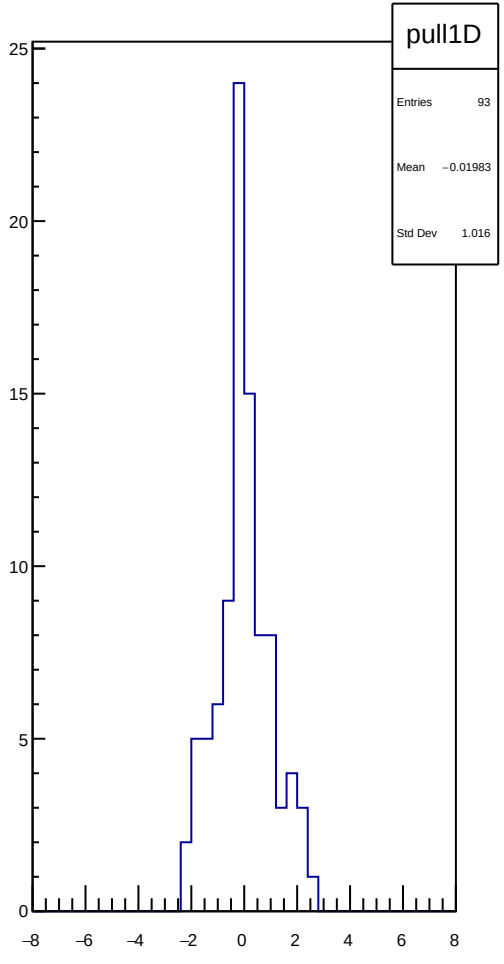

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.266e+04 / 92
p0 30.19 ± 0.02265
70
60
50
40
30
20

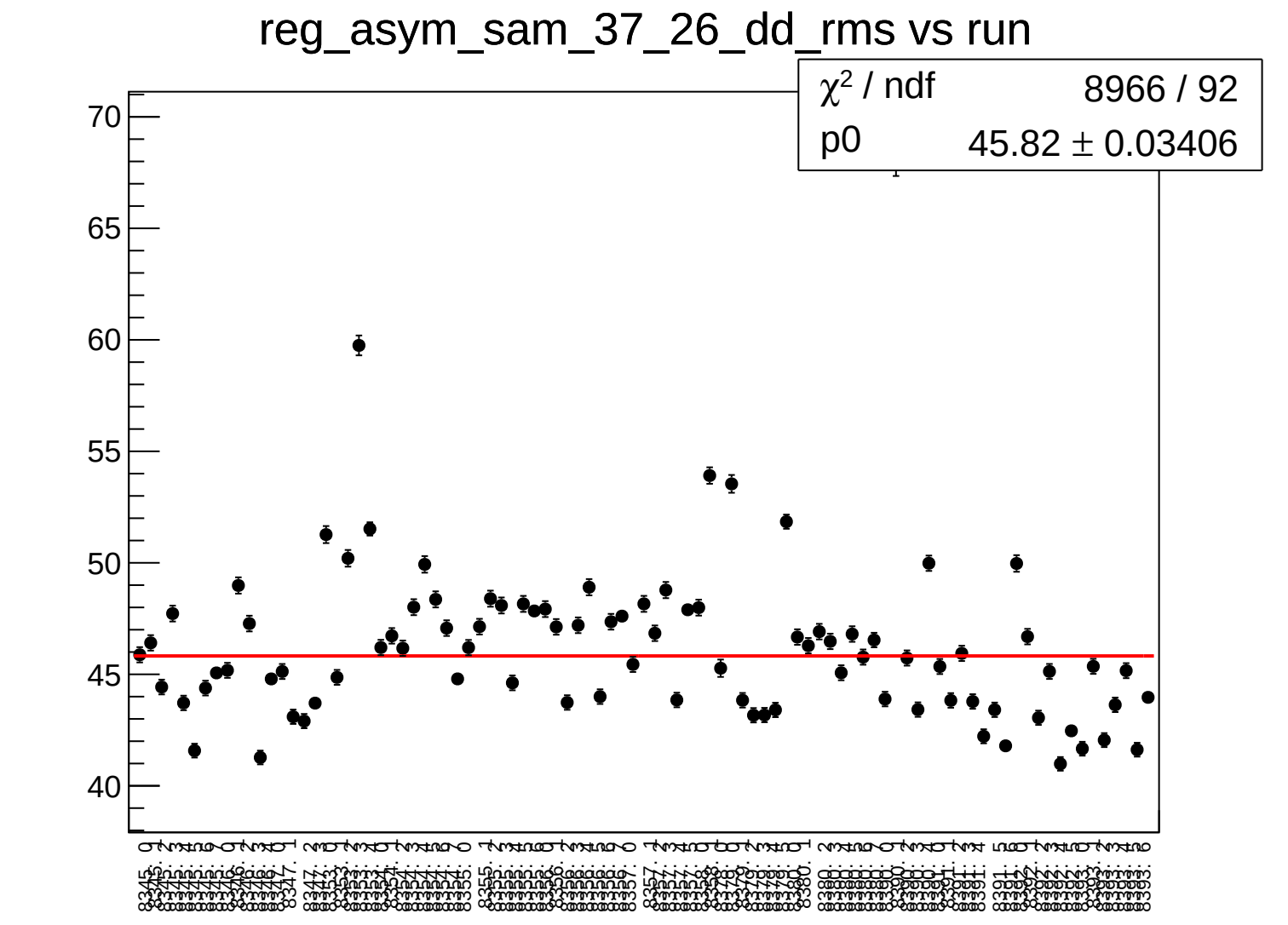

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 123.9 / 92
p0 −6.595e−15 ± 4.257e−14
pull
Entries 93
Mean −490.2
Std Dev 0

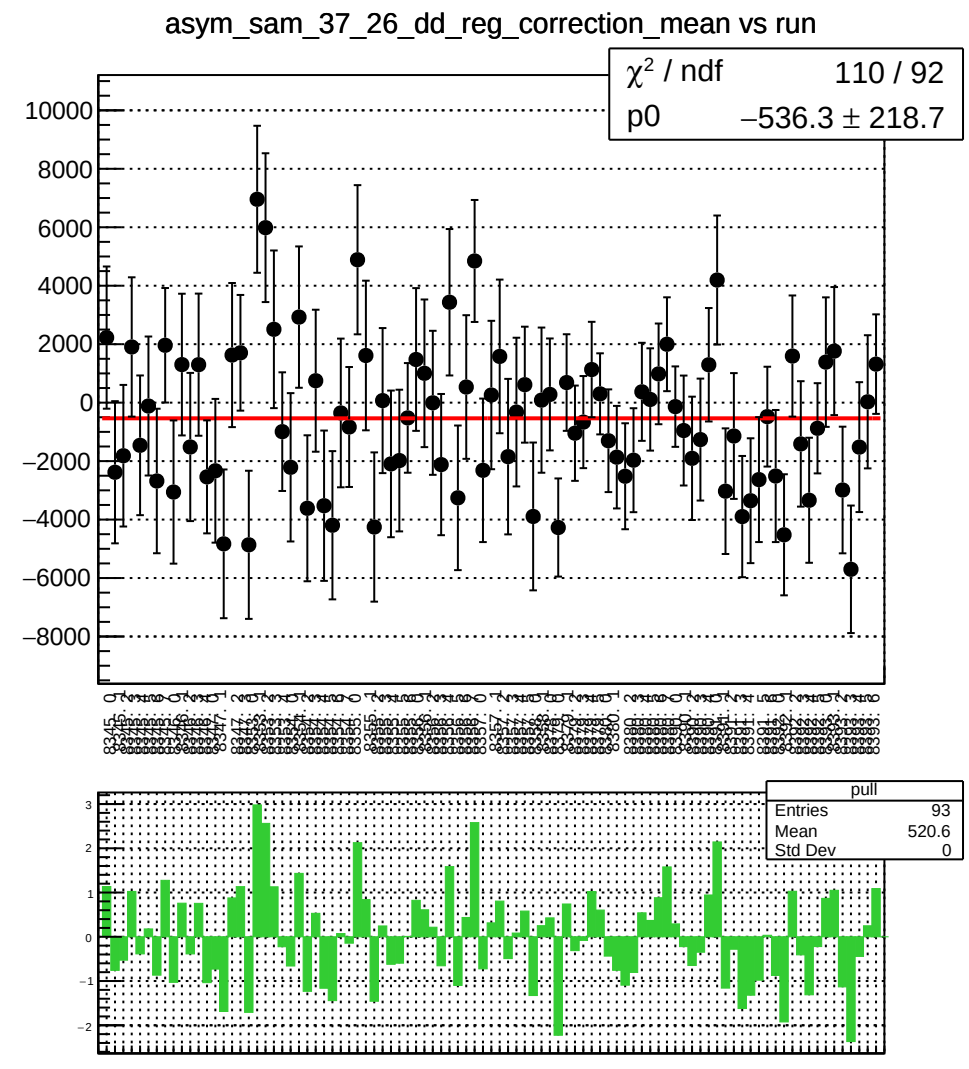

pull1D
Entries 93
Mean 0.00847
Std Dev 1.154

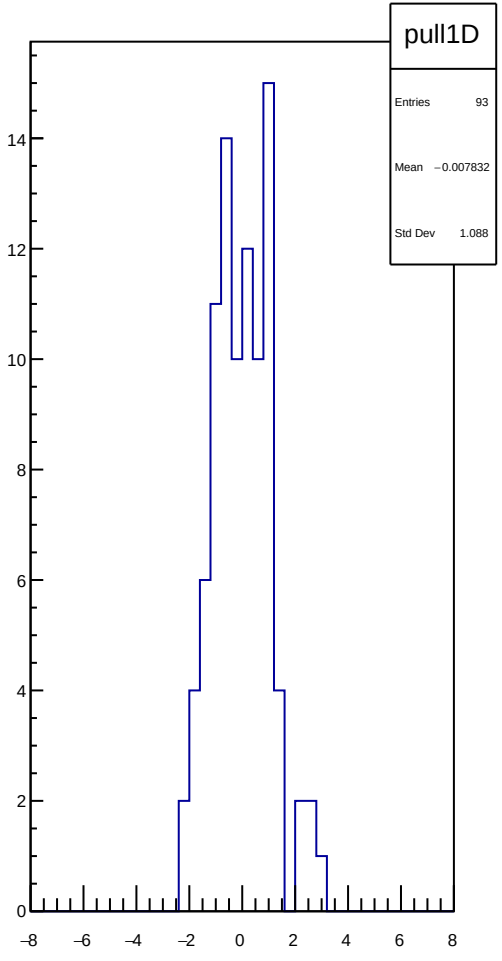

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.52e+05 / 92
p0 3.388e−11 ± 3.01e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

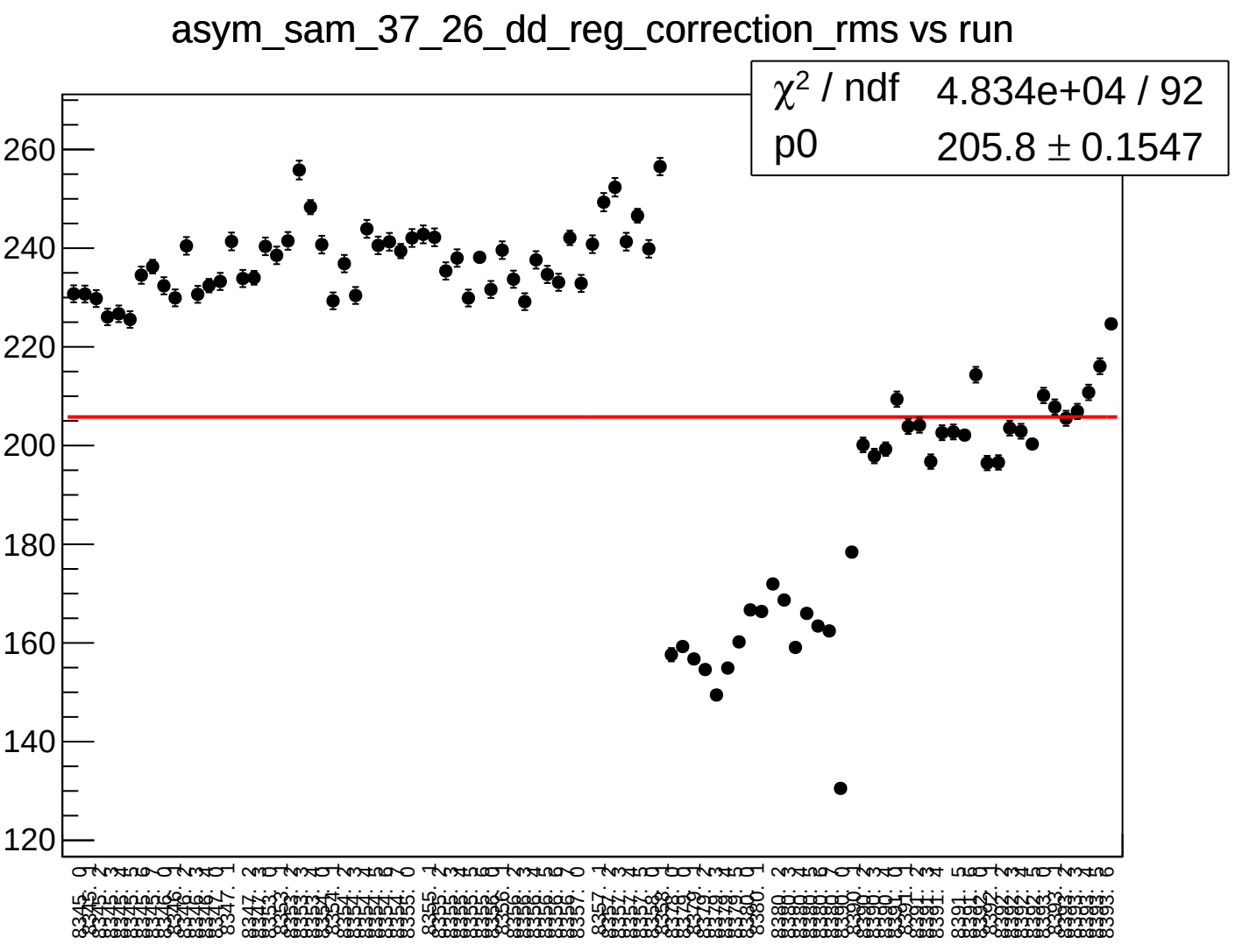

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 96.06 / 92
p0 −116.9 ± 48.17
1500
1000
500
0
−500
−1000
−1500
pull
Entries 93
Mean 83.39
Std Dev 0
2
1
0
−1
−2

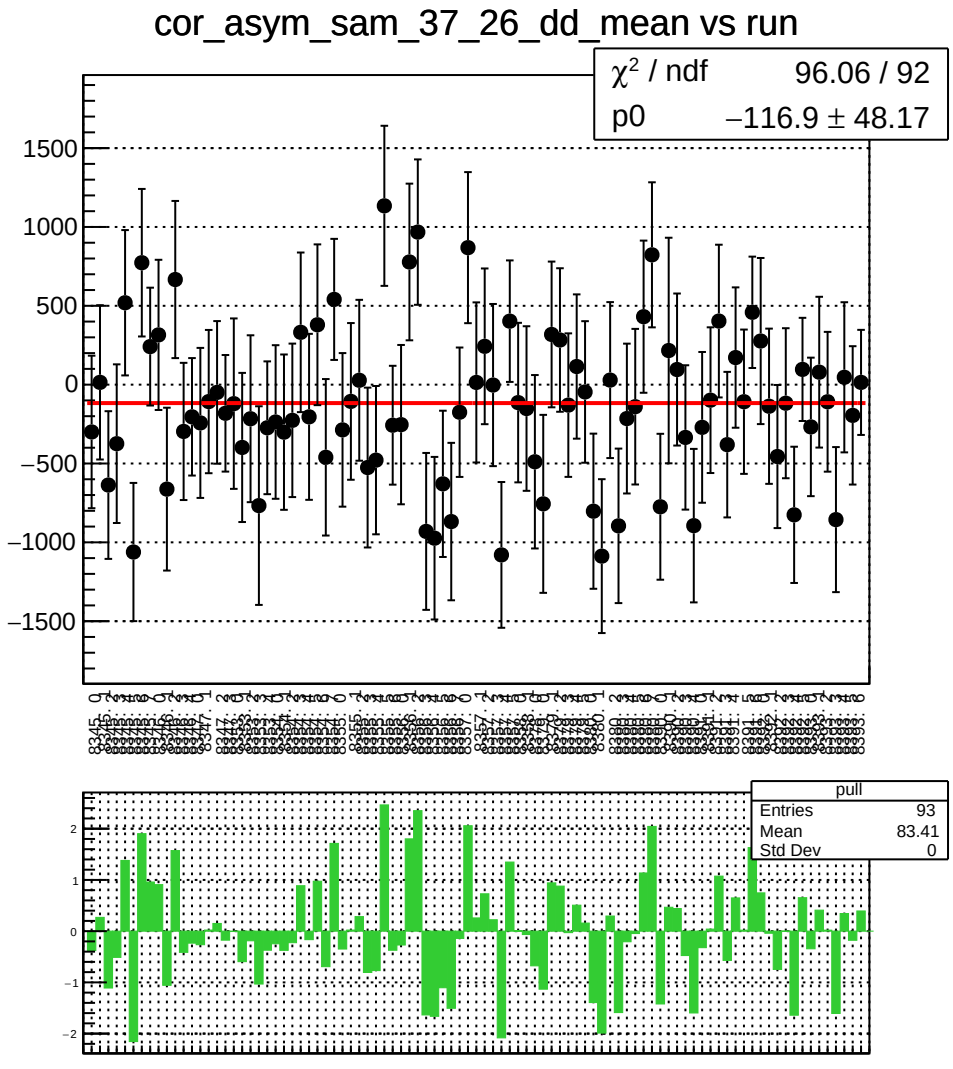

pull1D
Entries 93
Mean −0.01983
Std Dev 1.016
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

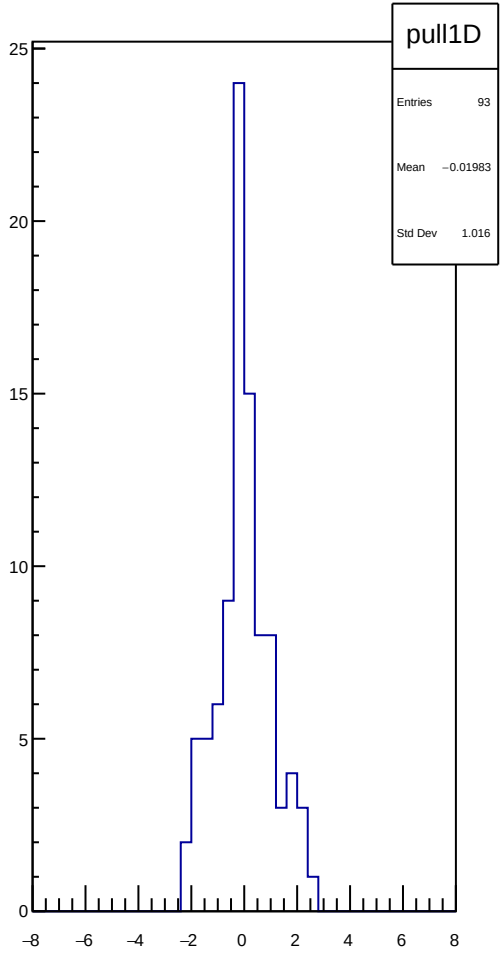

reg_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 8966 / 92
p0 45.82 ± 0.03406
70
65
60
55
50
45
40

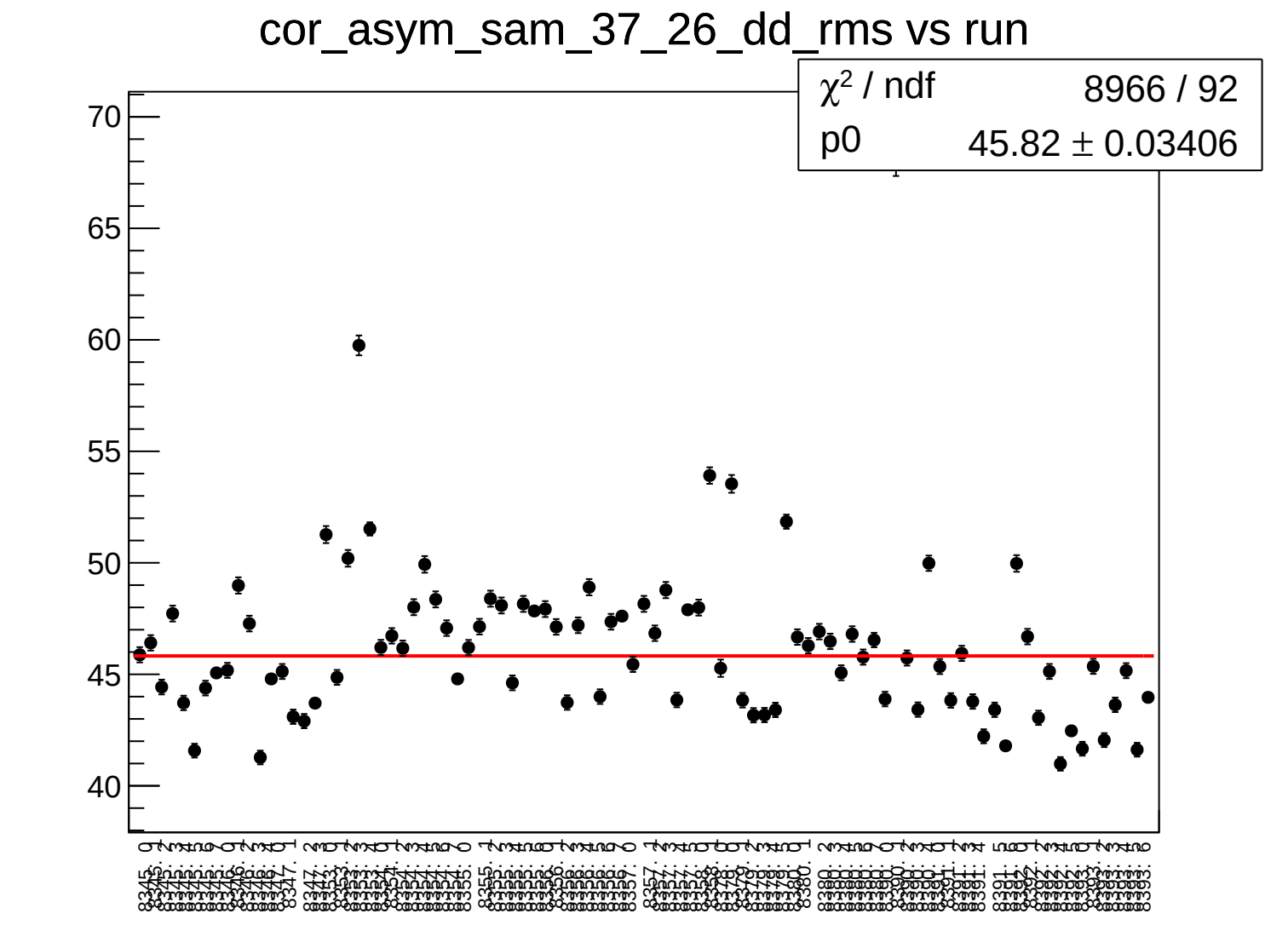

asym_sam_37_26_dd_reg_correction_mean vs run
χ² / ndf 110 / 92
p0 −536.3 ± 218.7
pull
Entries 93
Mean 520.6
Std Dev 0

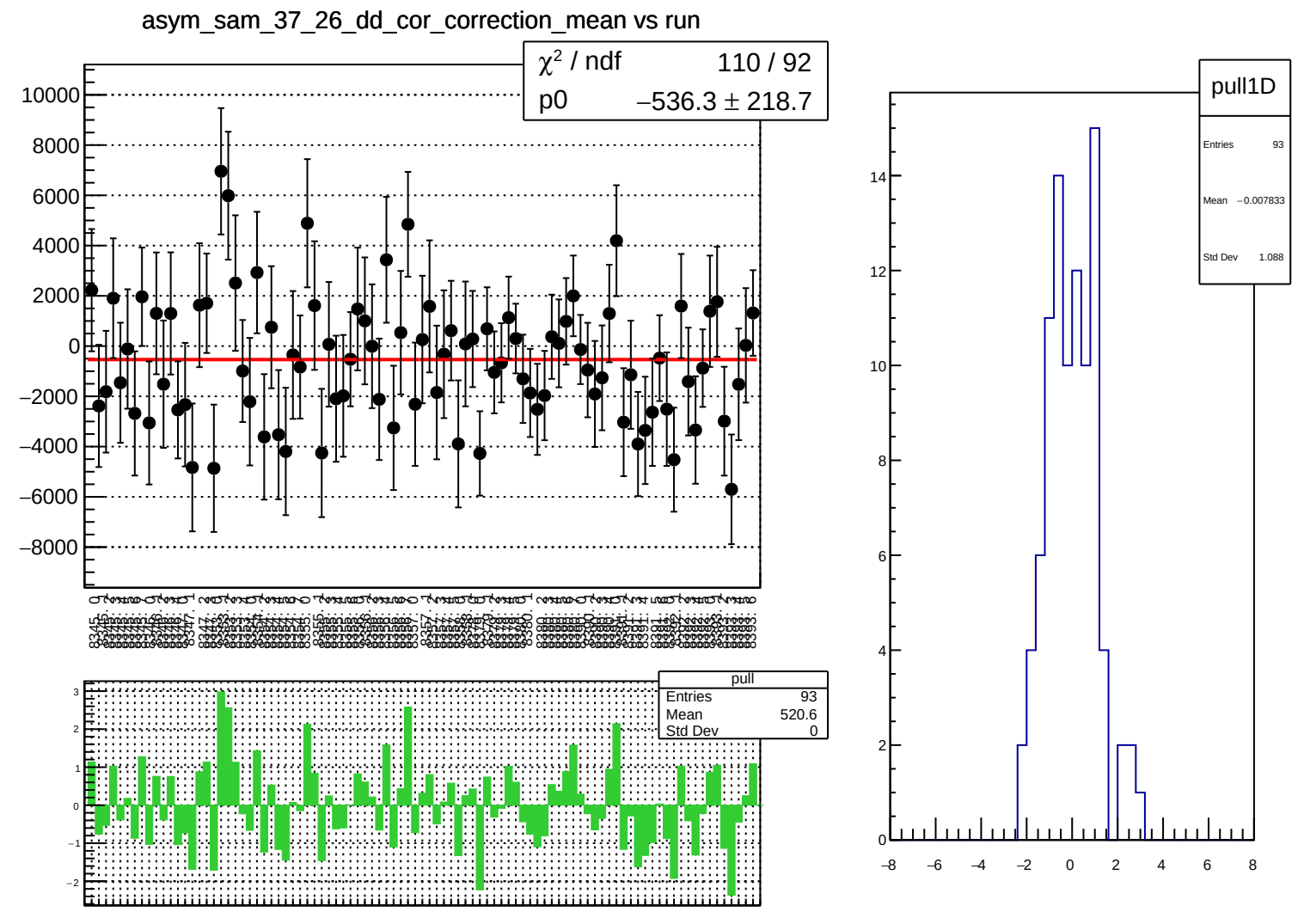

pull1D
Entries 93
Mean −0.007832
Std Dev 1.088

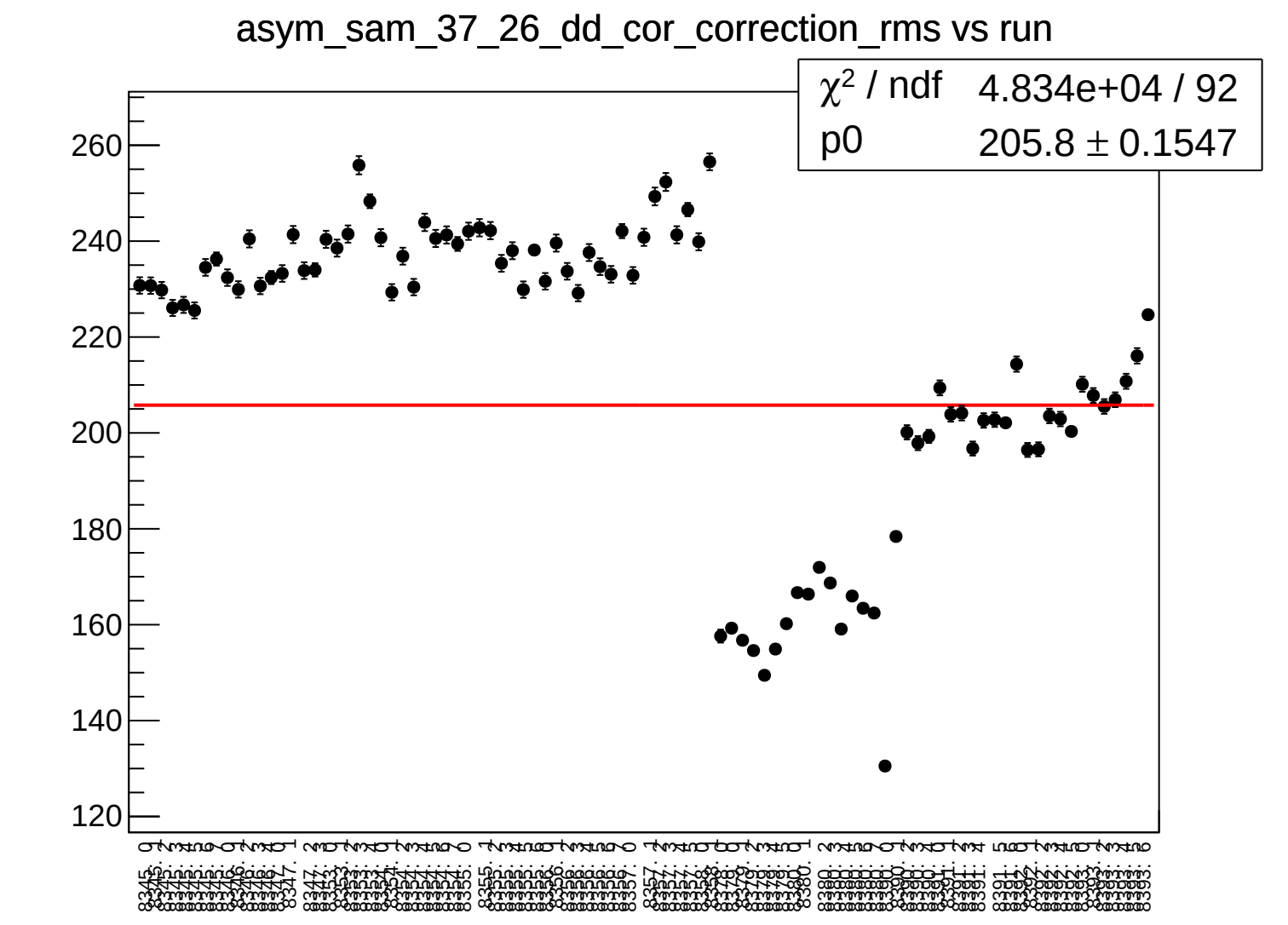

asym_sam_37_26_dd_reg_correction_rms vs run
χ² / ndf 4.834e+04 / 92
p0 205.8 ± 0.1547
260
240
220
200
180
160
140
120

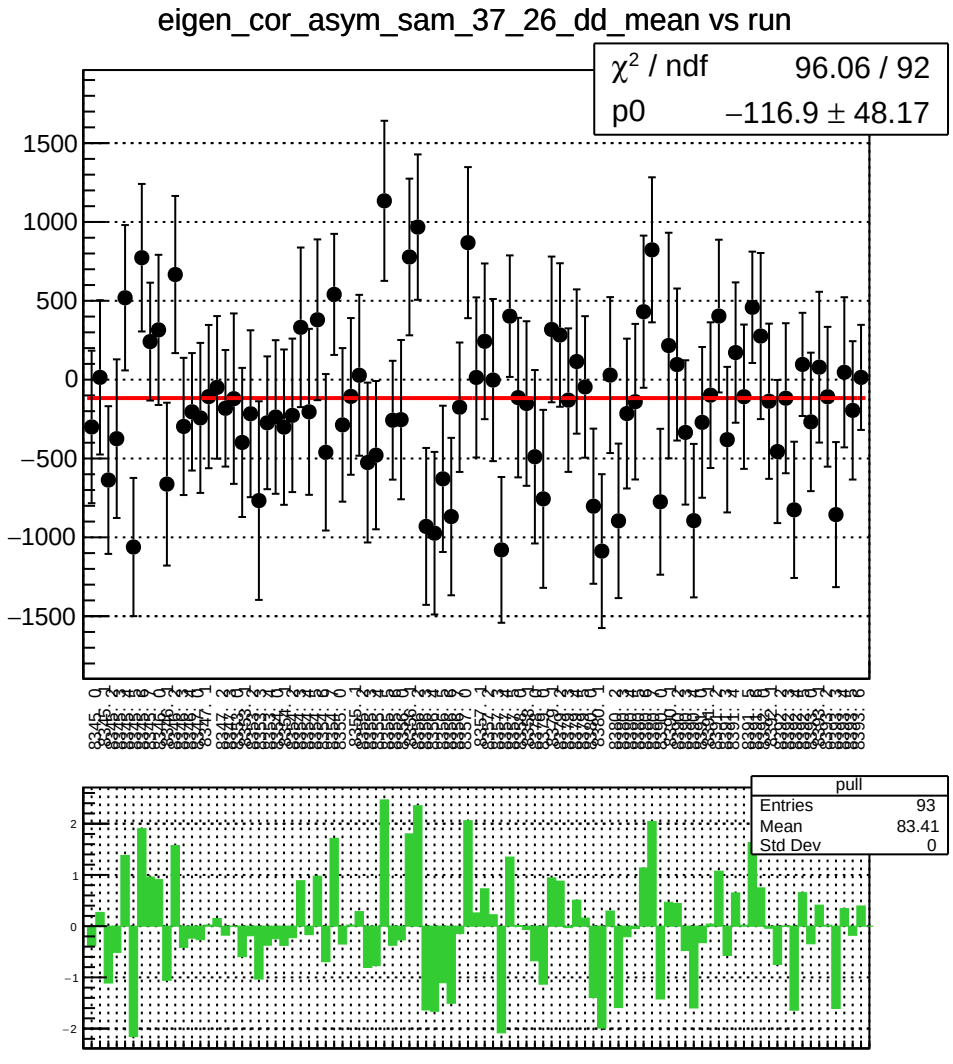

cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 96.06 / 92
p0 −116.9 ± 48.17
1500
1000
500
0
−500
−1000
−1500
pull
Entries 93
Mean 83.41
Std Dev 0
2
1
0
−1
−2

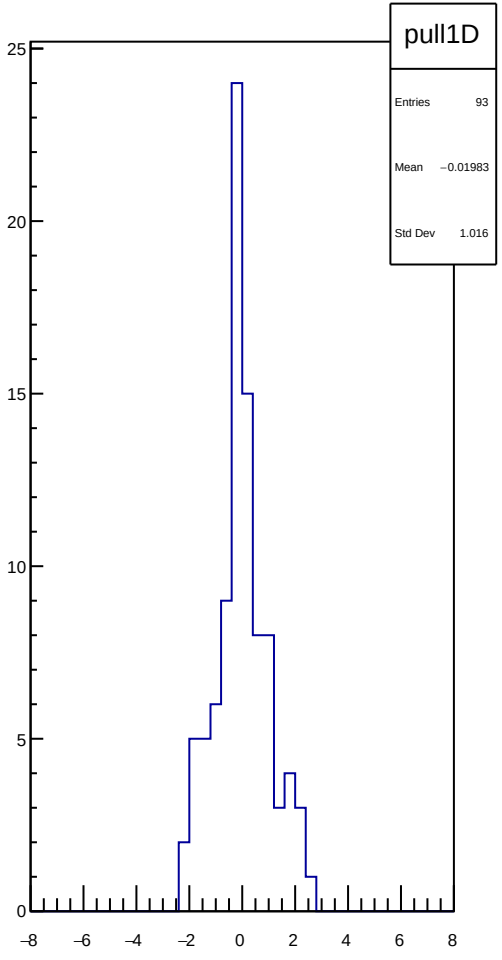

pull1D
Entries 93
Mean −0.01983
Std Dev 1.016
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

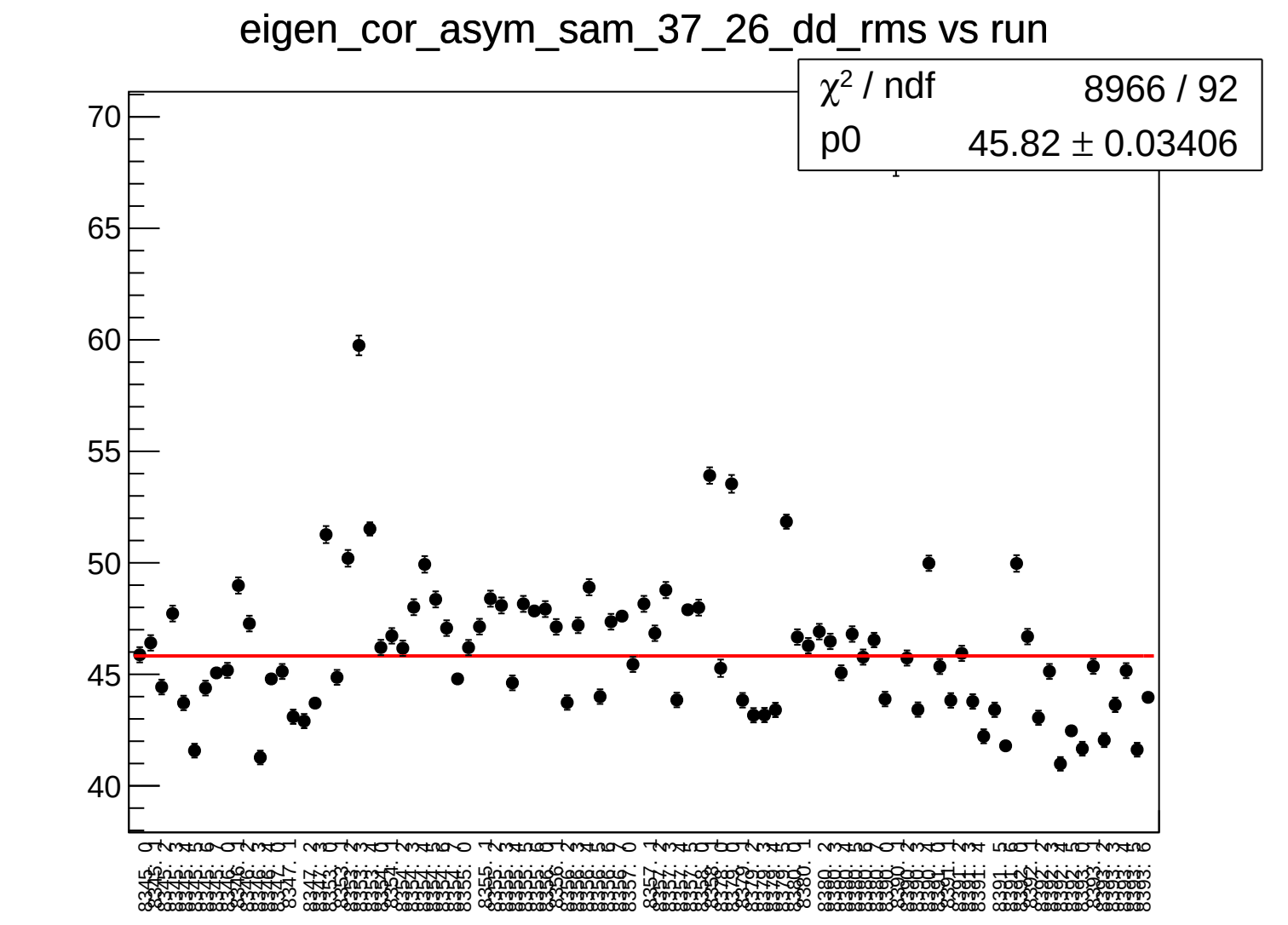

cor_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 8966 / 92
p0 45.82 ± 0.03406
70
65
60
55
50
45
40

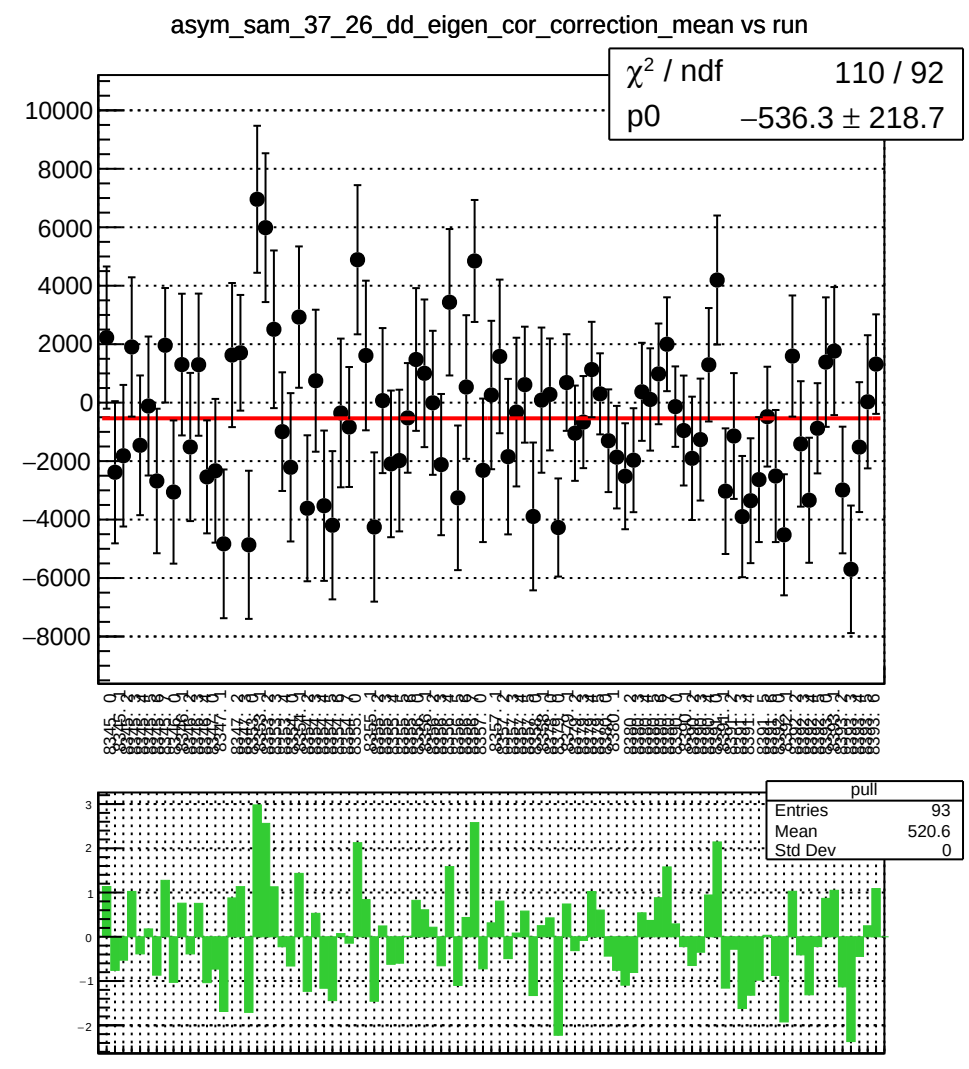

asym_sam_37_26_dd_cor_correction_mean vs run
χ² / ndf 110 / 92
p0 −536.3 ± 218.7
pull
Entries 93
Mean 520.6
Std Dev 0
pull1D
Entries 93
Mean −0.007833
Std Dev 1.088

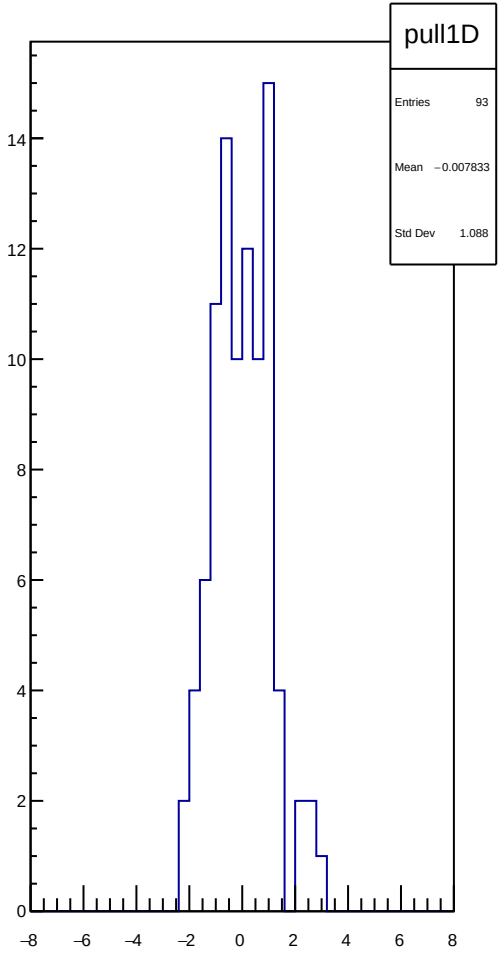

asym_sam_37_26_dd_cor_correction_rms vs run
χ² / ndf 4.834e+04 / 92
p0 205.8 ± 0.1547
260
240
220
200
180
160
140
120

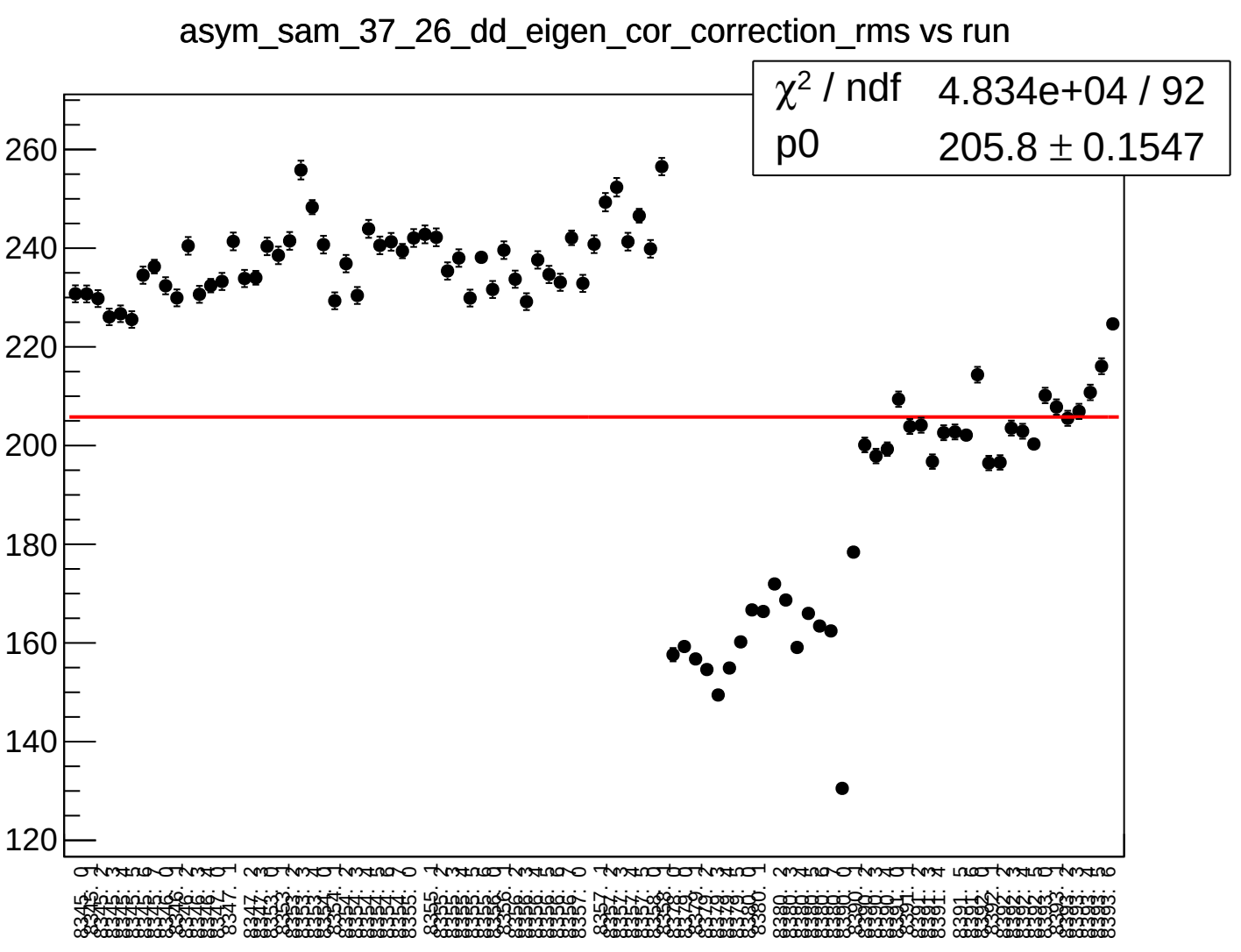

eigen_cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 96.06 / 92
p0 −116.9 ± 48.17
1500
1000
500
0
−500
−1000
−1500
pull
Entries 93
Mean 83.41
Std Dev 0
2
1
0
−1
−2

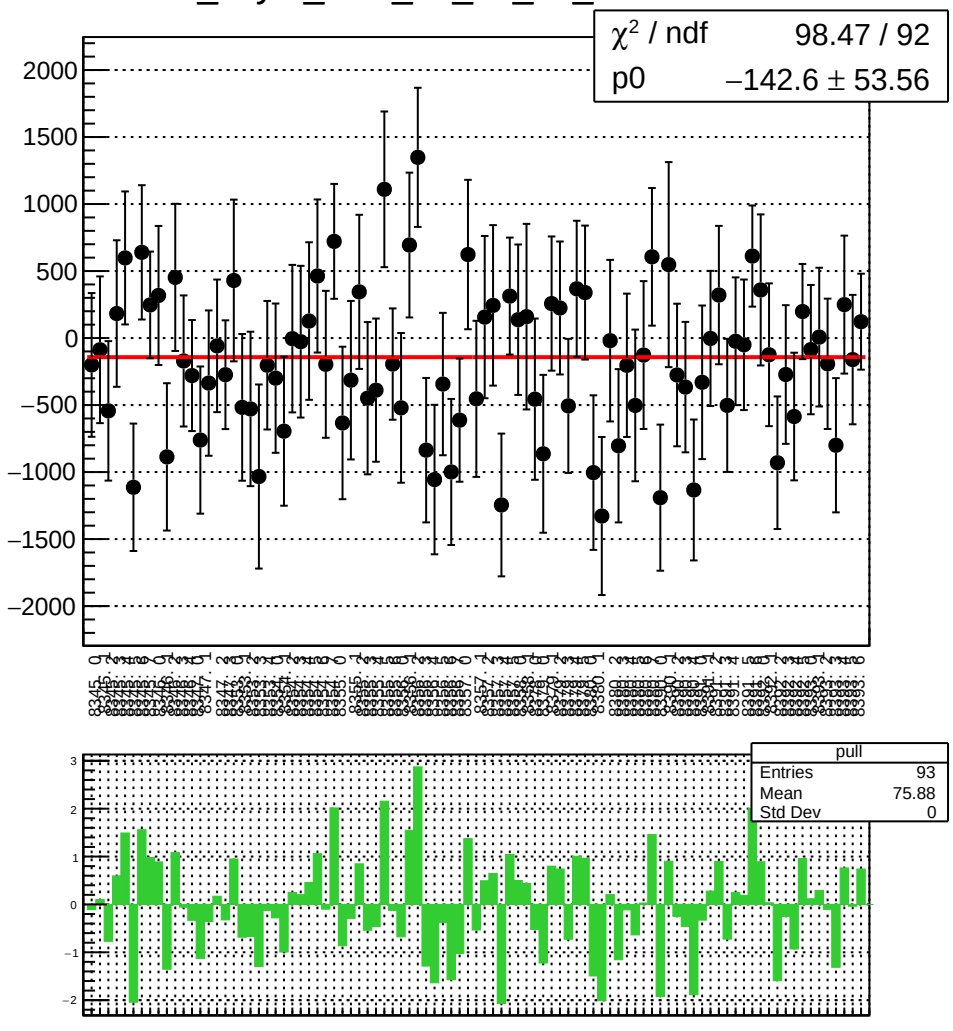

pull1D
Entries 93
Mean −0.01983
Std Dev 1.016
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

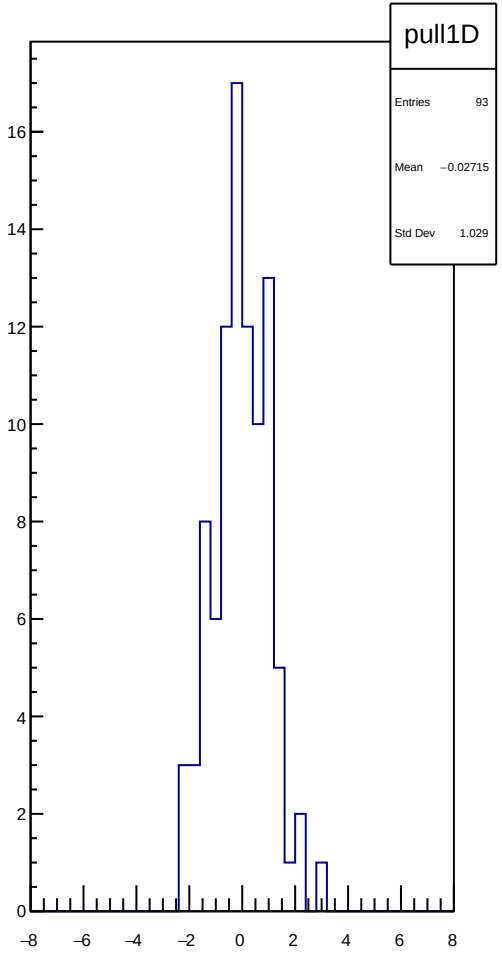

eigen_cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 8966 / 92
p0 45.82 ± 0.03406
70
65
60
55
50
45
40

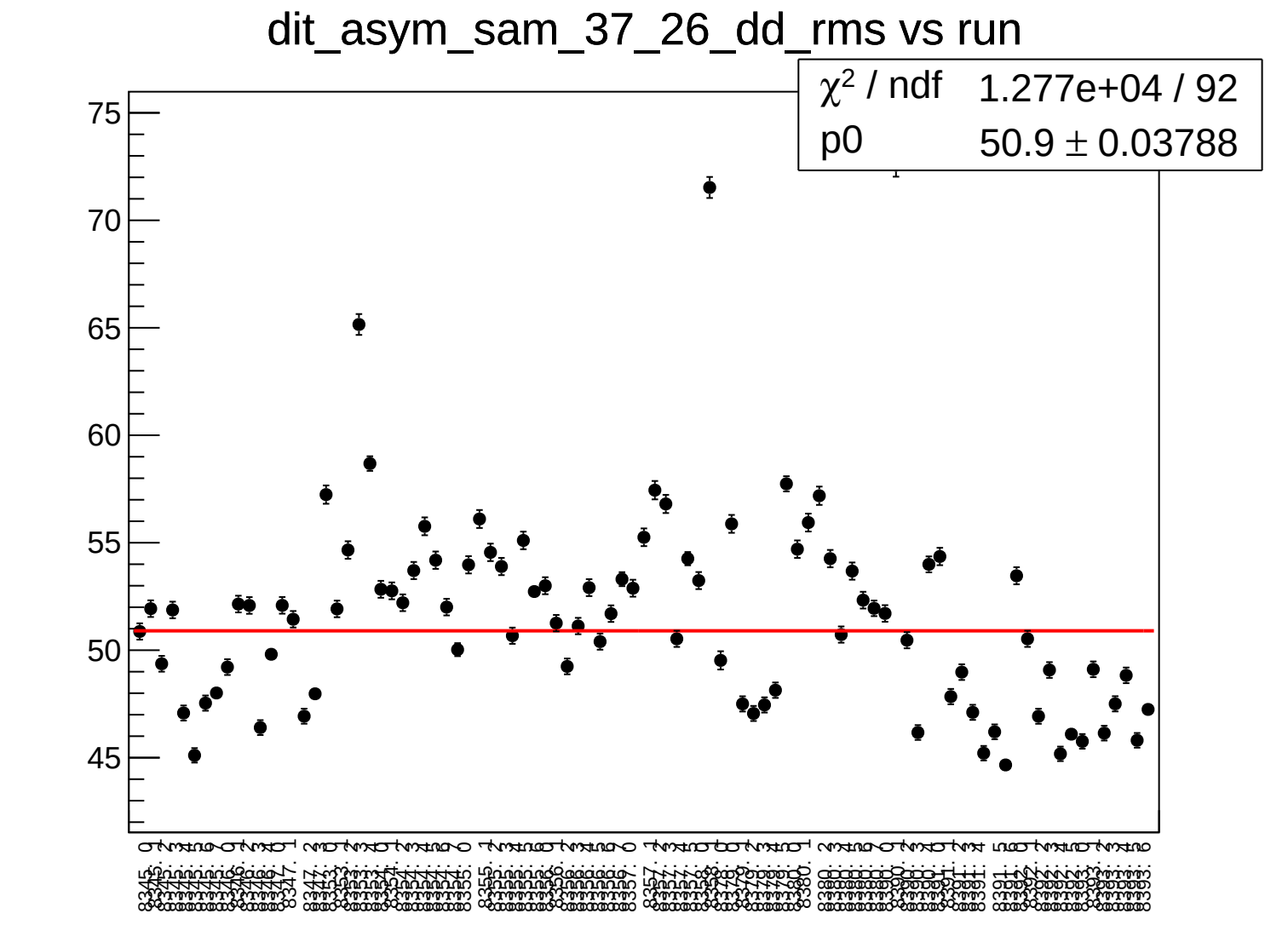

asym_sam_37_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 110 / 92
p0 −536.3 ± 218.7
pull
Entries 93
Mean 520.6
Std Dev 0

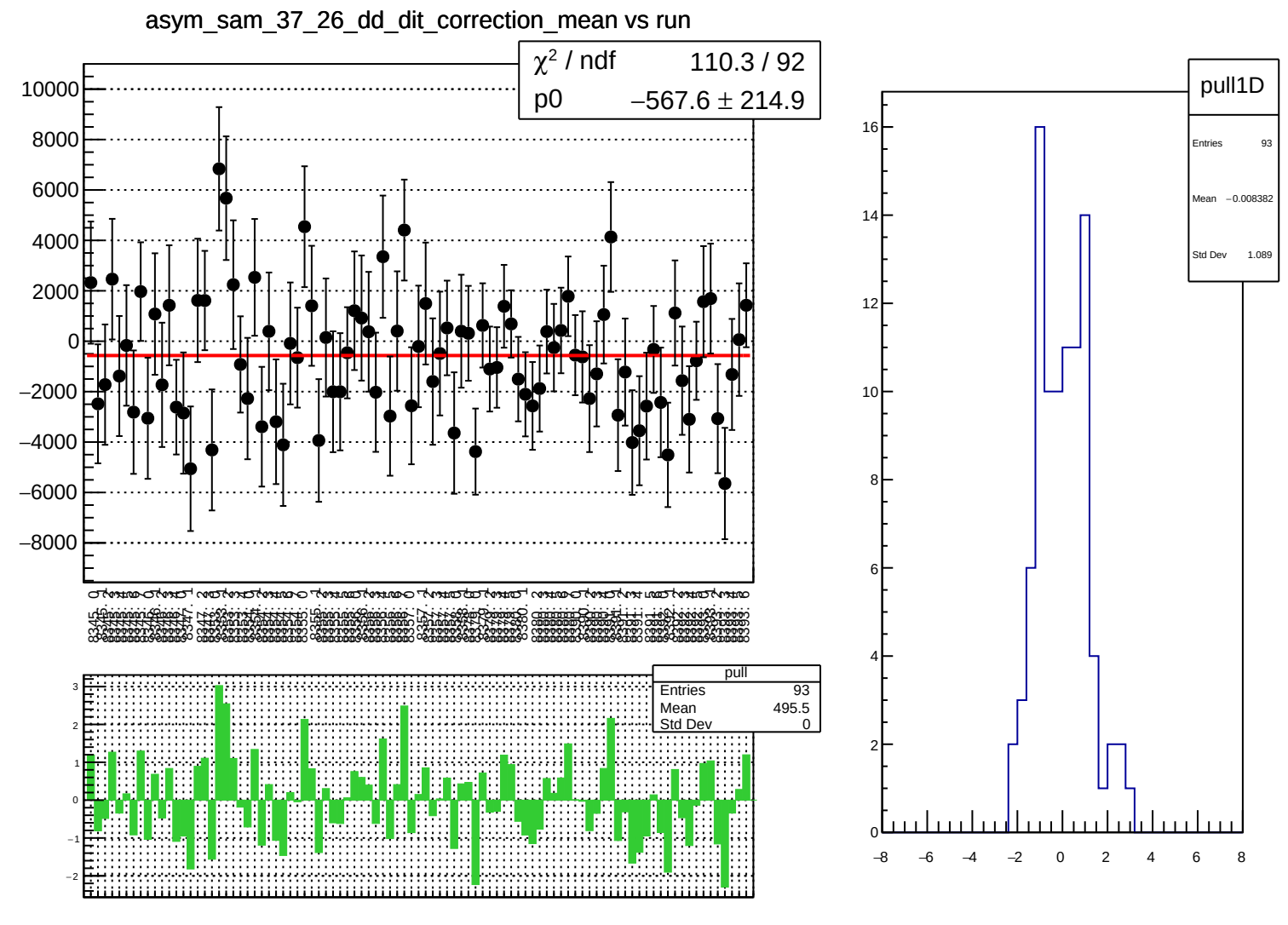

pull1D
Entries 93
Mean −0.007833
Std Dev 1.088

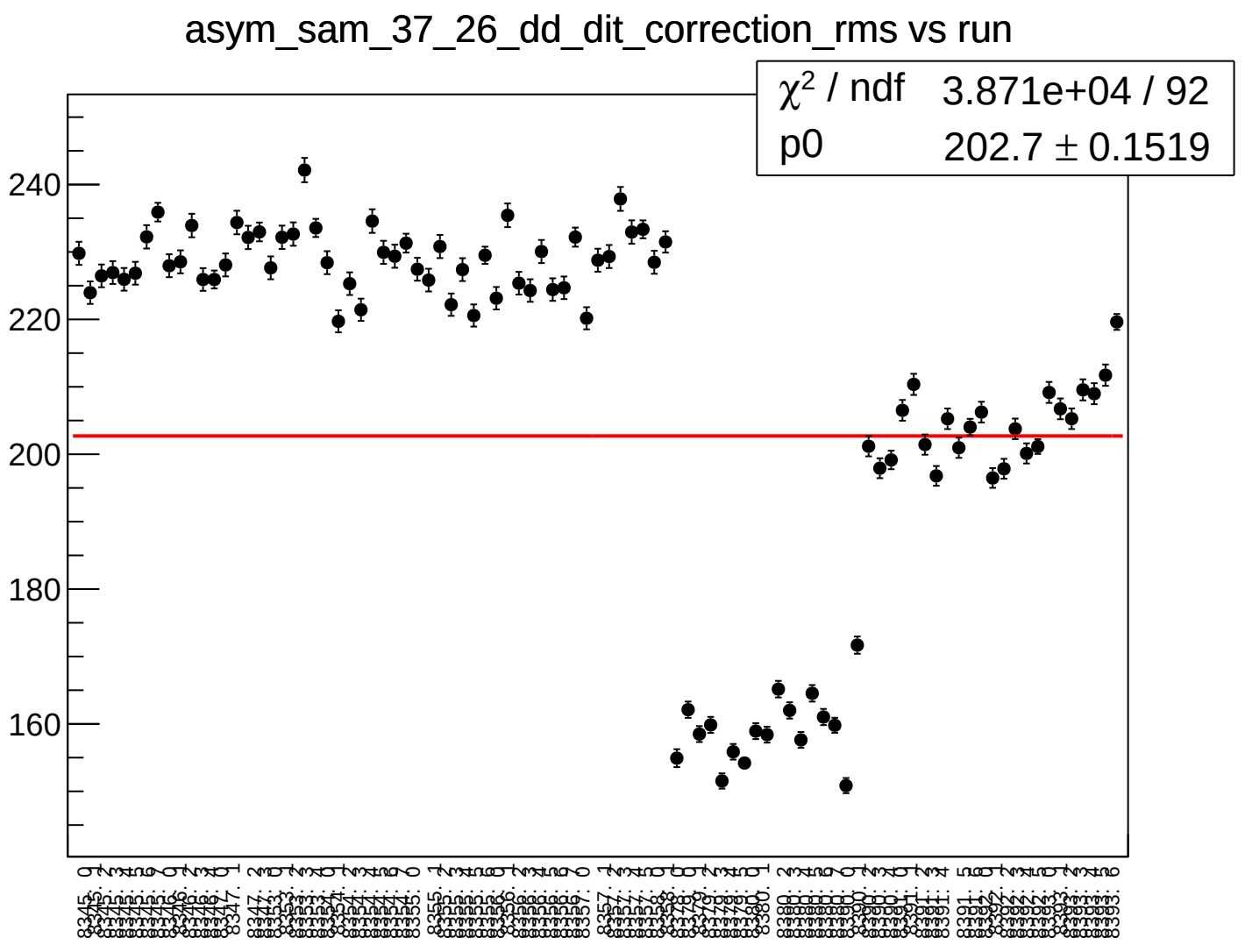

asym_sam_37_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 4.834e+04 / 92
p0 205.8 ± 0.1547
260
240
220
200
180
160
140
120

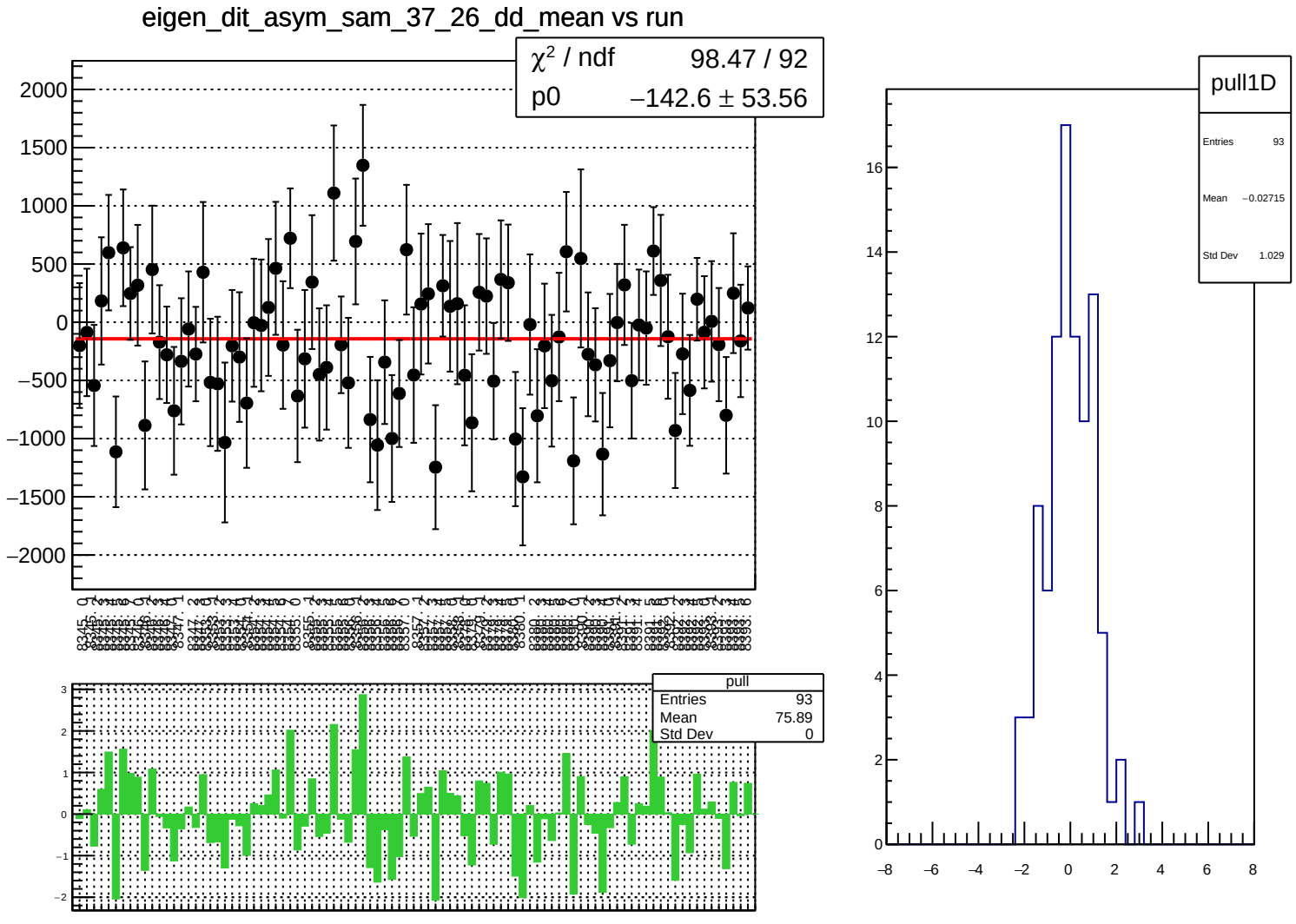

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 98.47 / 92
p0 −142.6 ± 53.56
pull
Entries 93
Mean 75.88
Std Dev 0

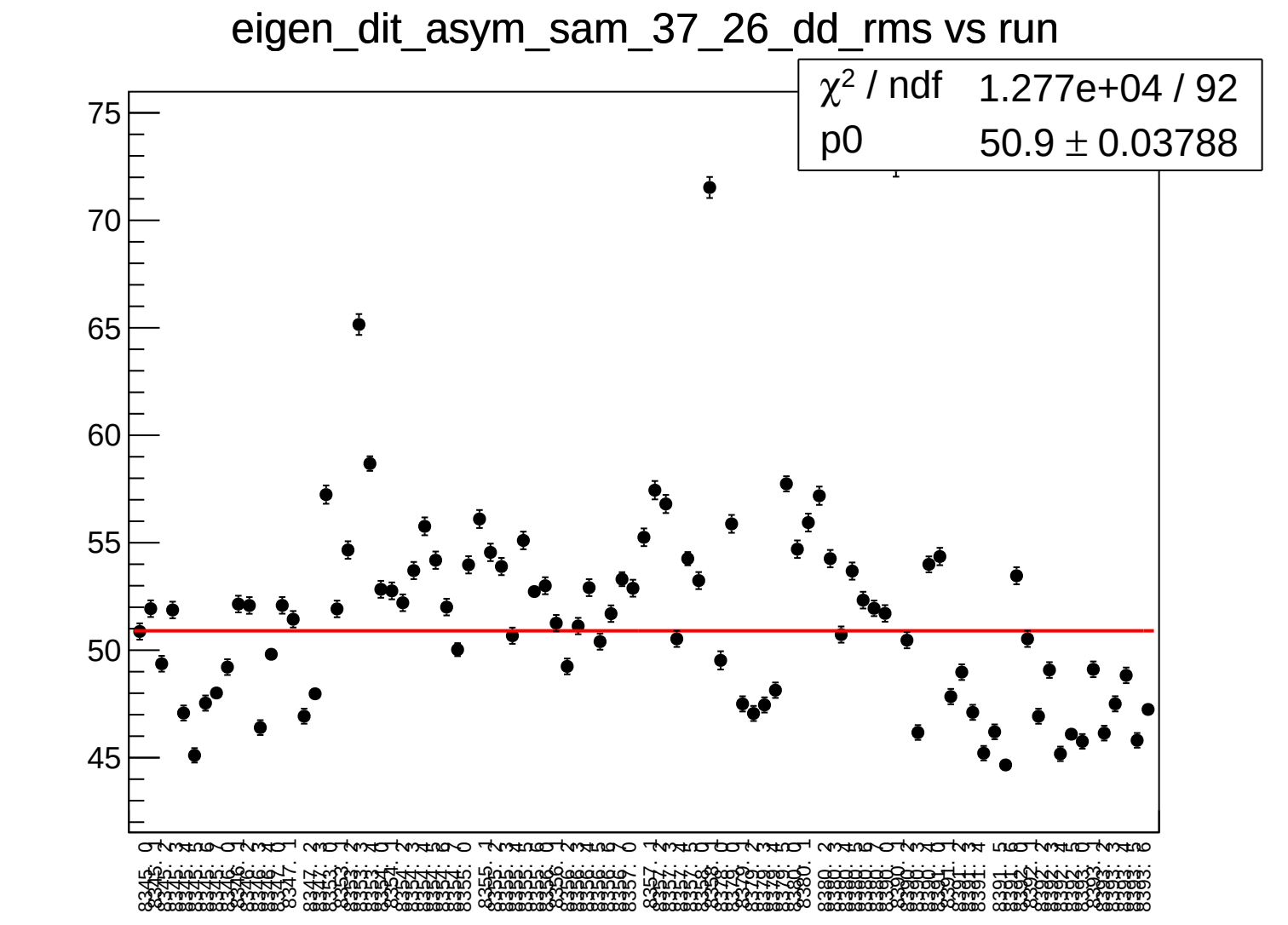

pull1D
Entries 93
Mean −0.02715
Std Dev 1.029

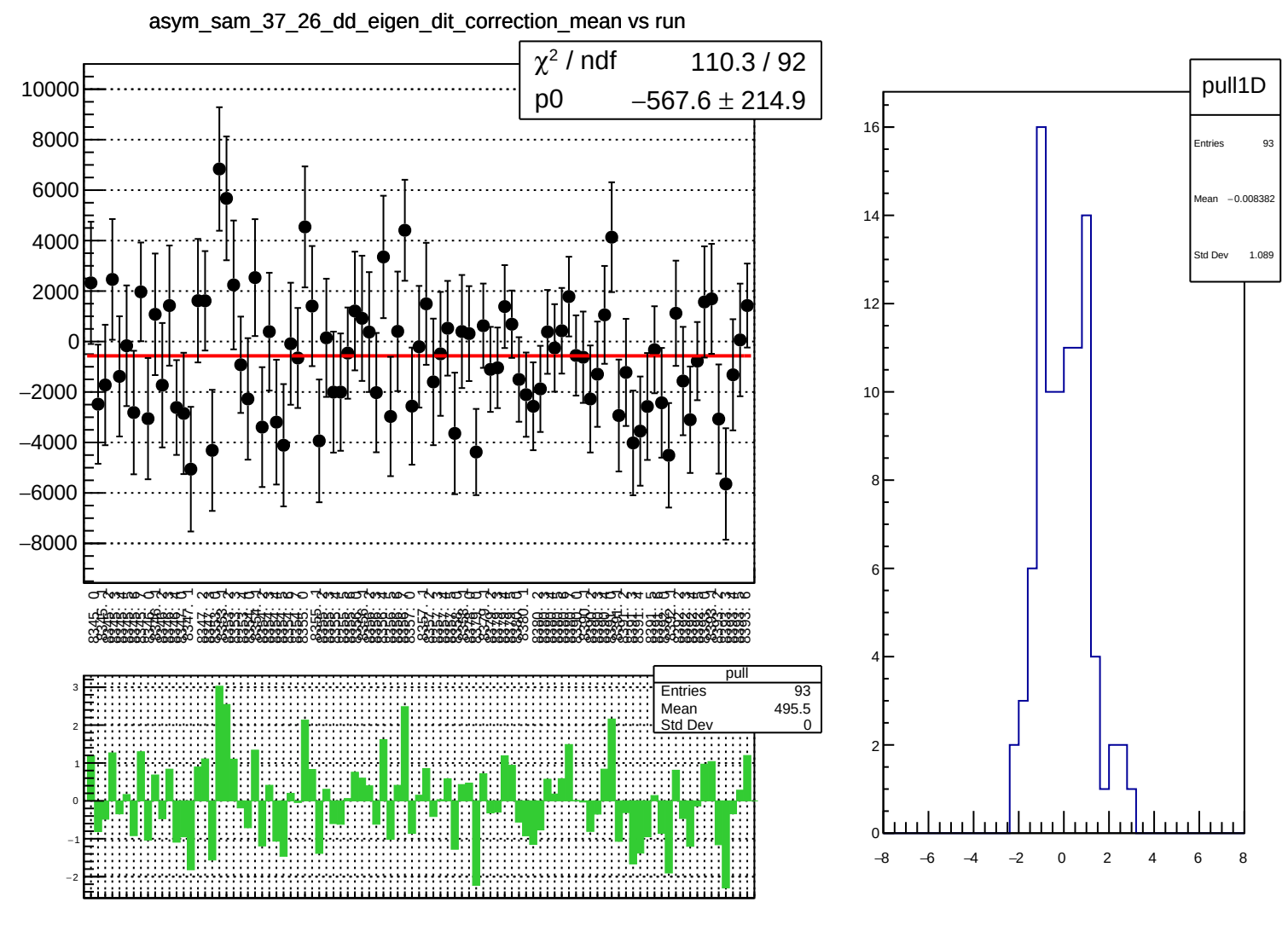

dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 1.277e+04 / 92
p0 50.9 ± 0.03788
75
70
65
60
55
50
45

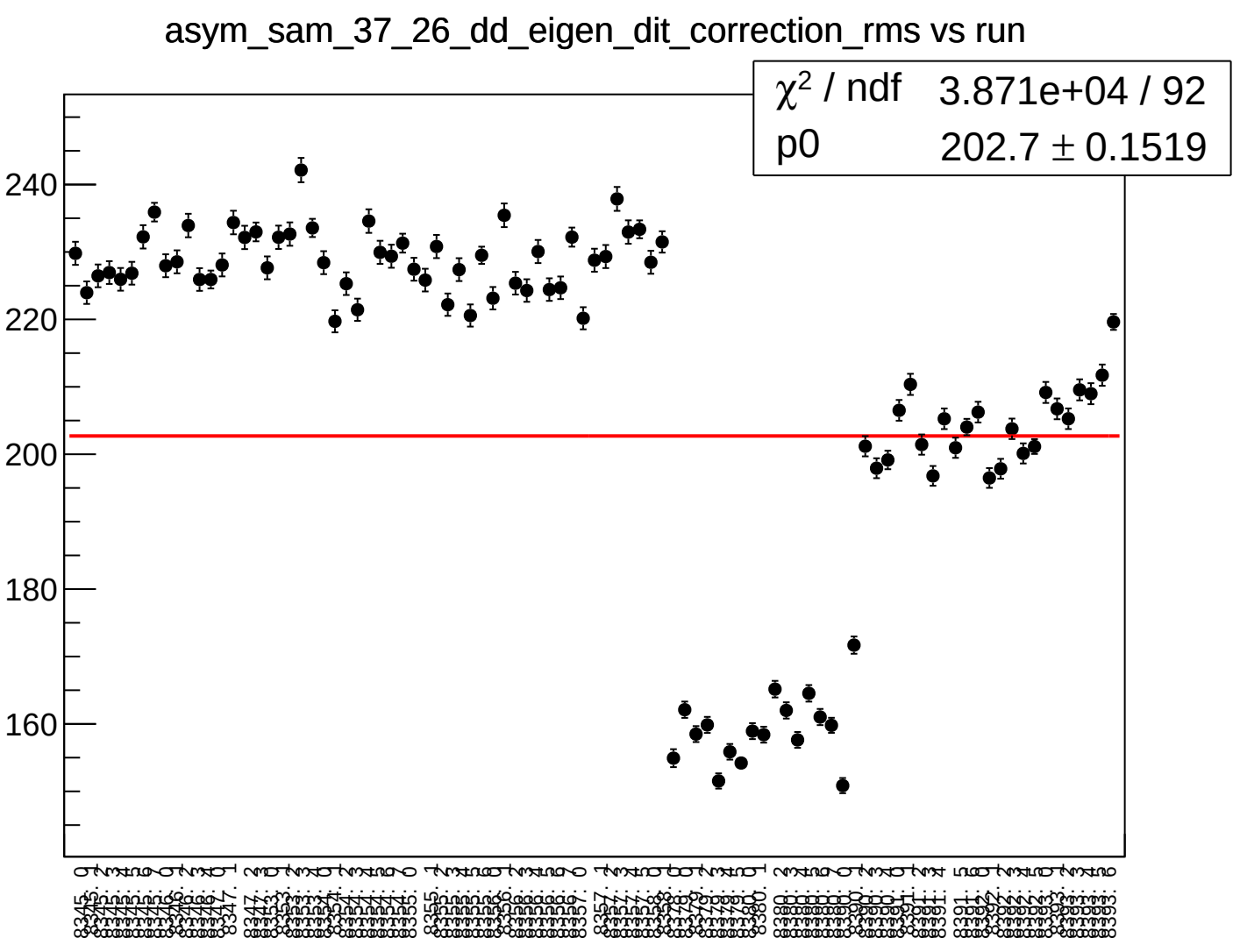

asym_sam_37_26_dd_dit_correction_mean vs run
χ² / ndf 110.3 / 92
p0 −567.6 ± 214.9
pull
Entries 93
Mean 495.5
Std Dev 0
pull1D
Entries 93
Mean −0.008382
Std Dev 1.089

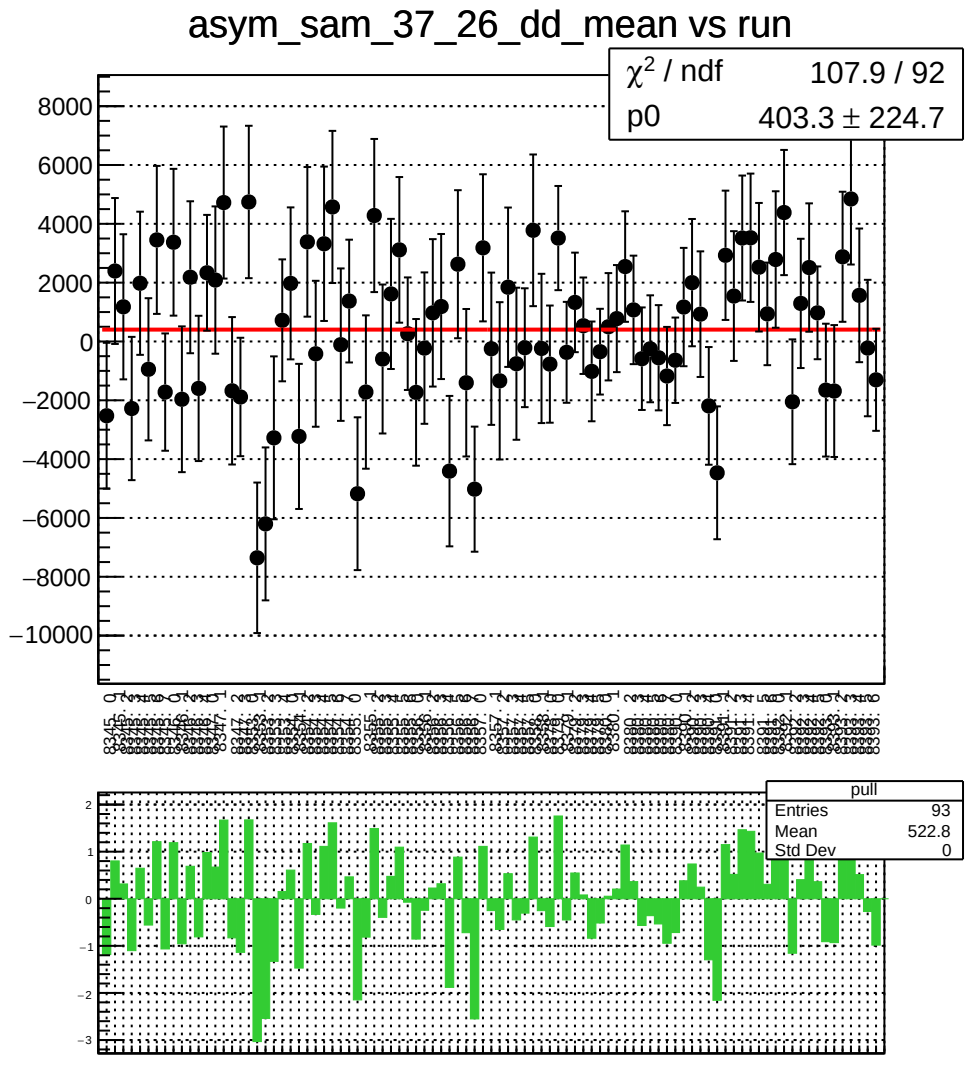

asym_sam_37_26_dd_dit_correction_rms vs run
χ² / ndf 3.871e+04 / 92
p0 202.7 ± 0.1519
240
220
200
180
160

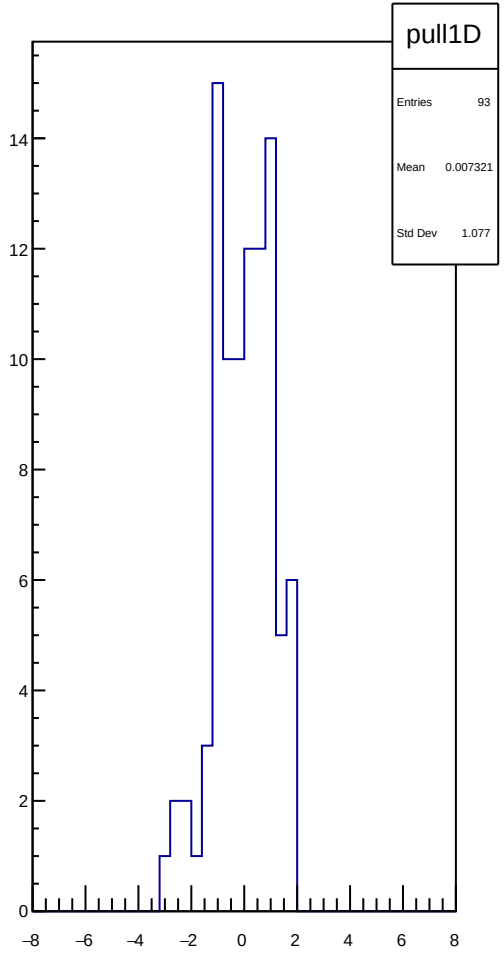

eigen_dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 98.47 / 92
p0 −142.6 ± 53.56
pull
Entries 93
Mean 75.89
Std Dev 0
pull1D
Entries 93
Mean −0.02715
Std Dev 1.029

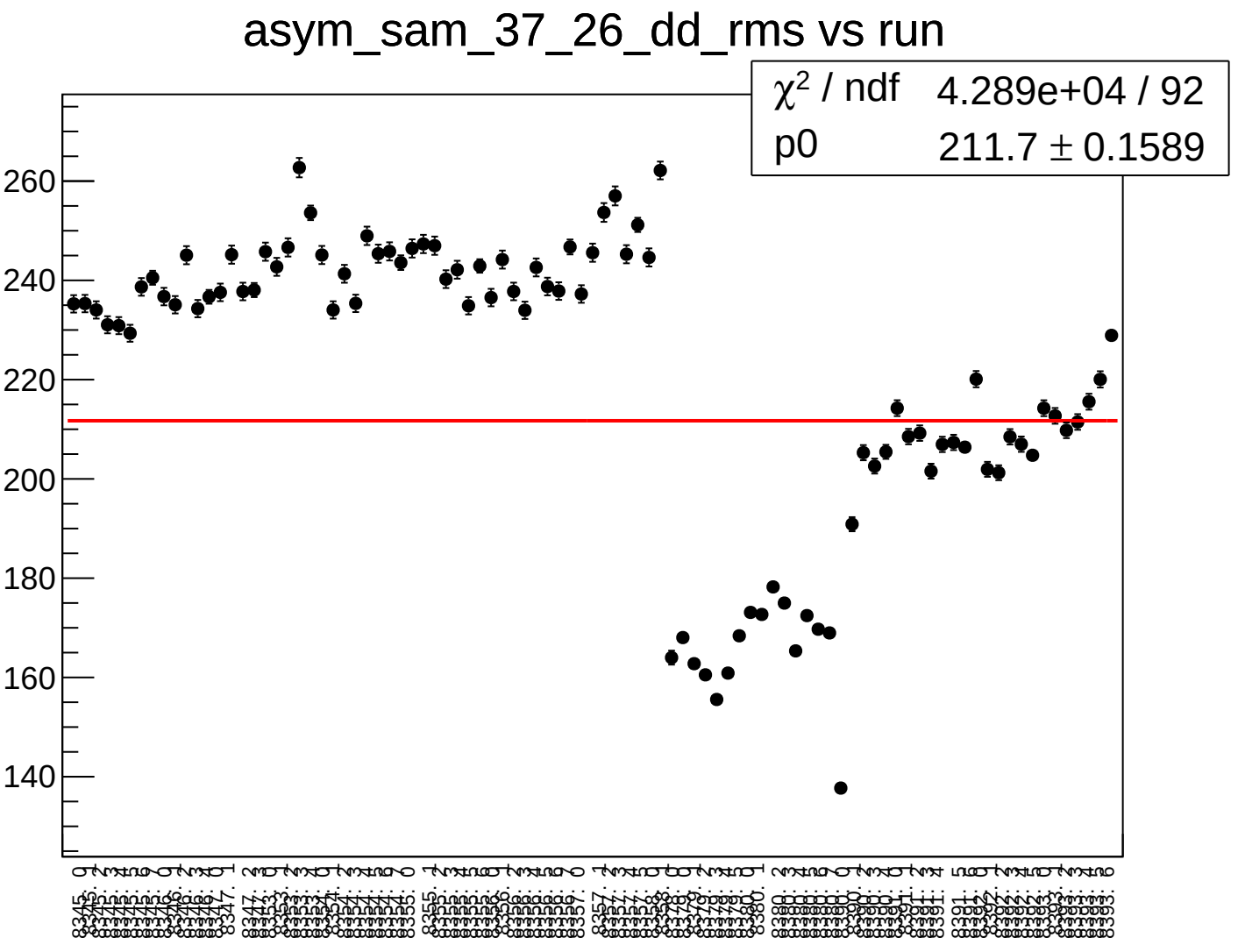

eigen_dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 1.277e+04 / 92
p0 50.9 ± 0.03788
75
70
65
60
55
50
45

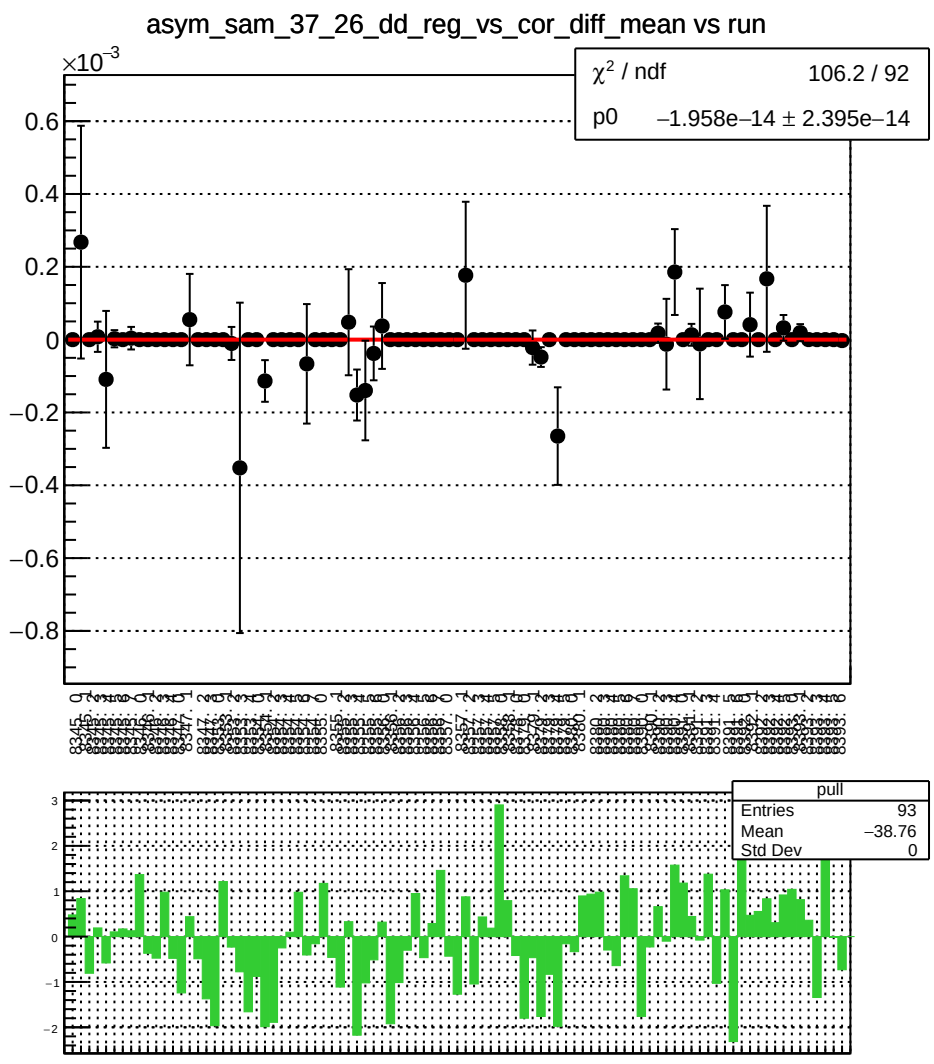

asym_sam_37_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 110.3 / 92
p0 −567.6 ± 214.9
pull
Entries 93
Mean 495.5
Std Dev 0
pull1D
Entries 93
Mean −0.008382
Std Dev 1.089

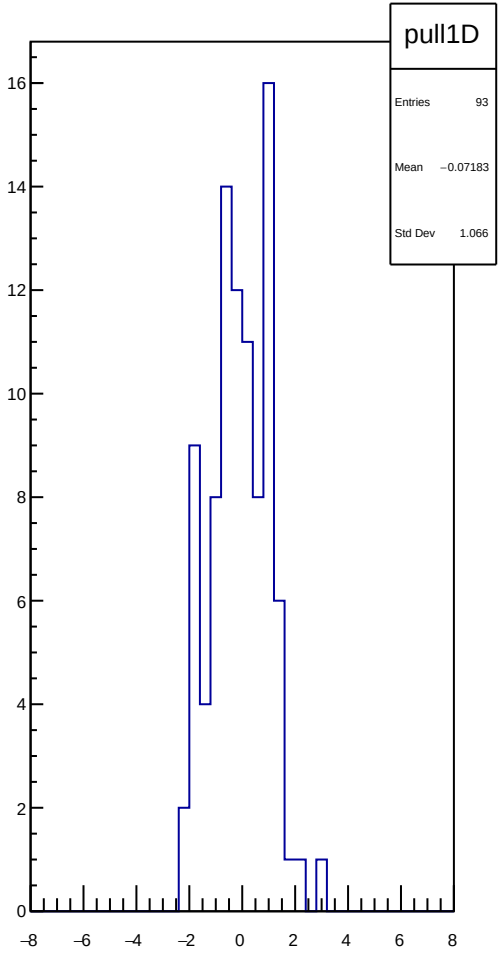

asym_sam_37_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.871e+04 / 92
p0 202.7 ± 0.1519
240
220
200
180
160

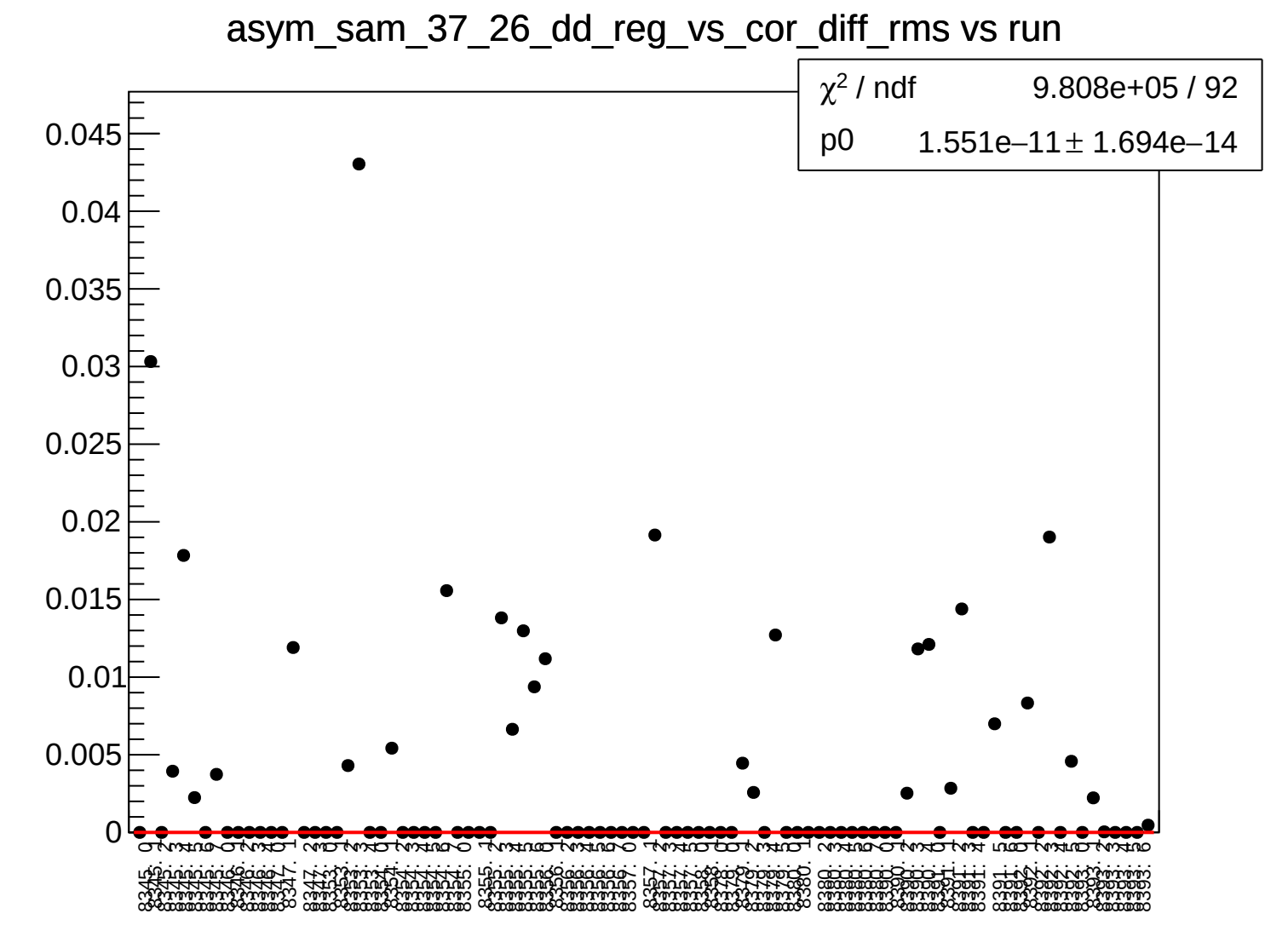

asym_sam_37_26_dd_mean vs run
χ² / ndf 107.9 / 92
p0 403.3 ± 224.7
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
pull
Entries 93
Mean 522.8
Std Dev 0
2
1
0
−1
−2
−3

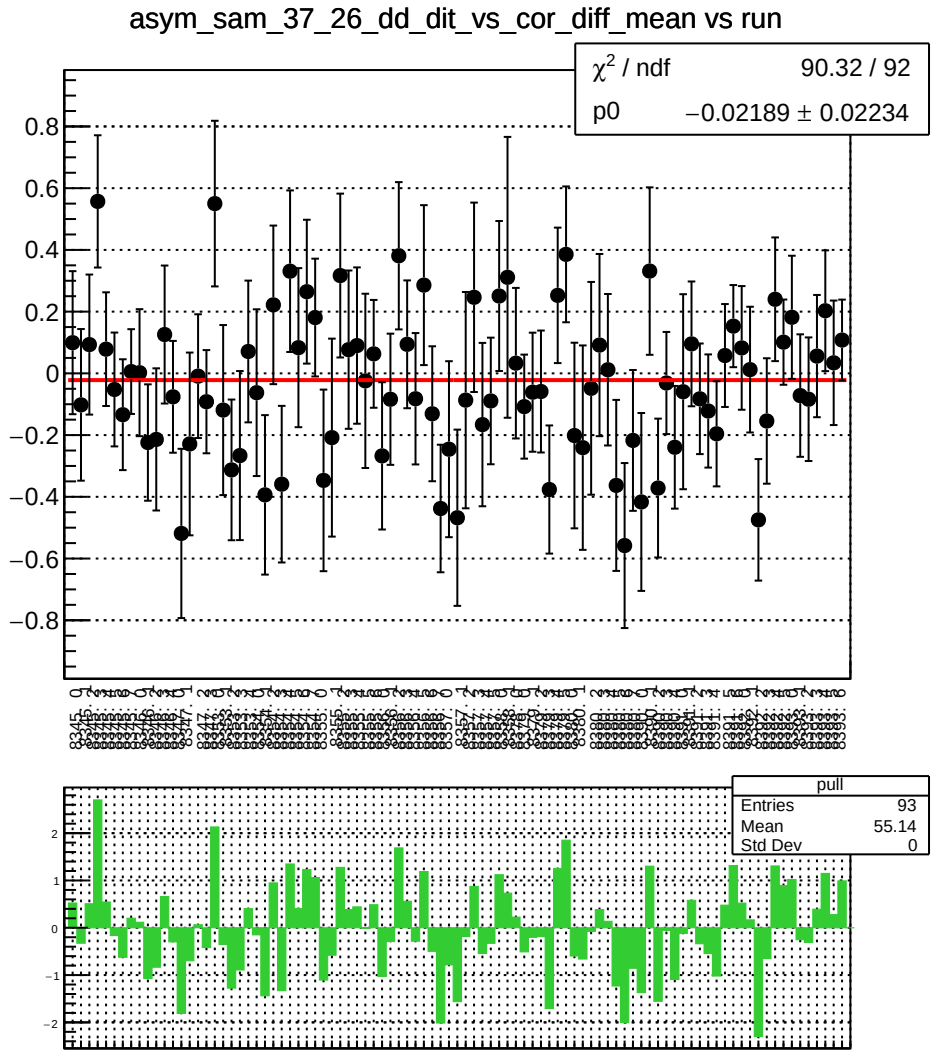

pull1D
Entries 93
Mean 0.007321
Std Dev 1.077
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

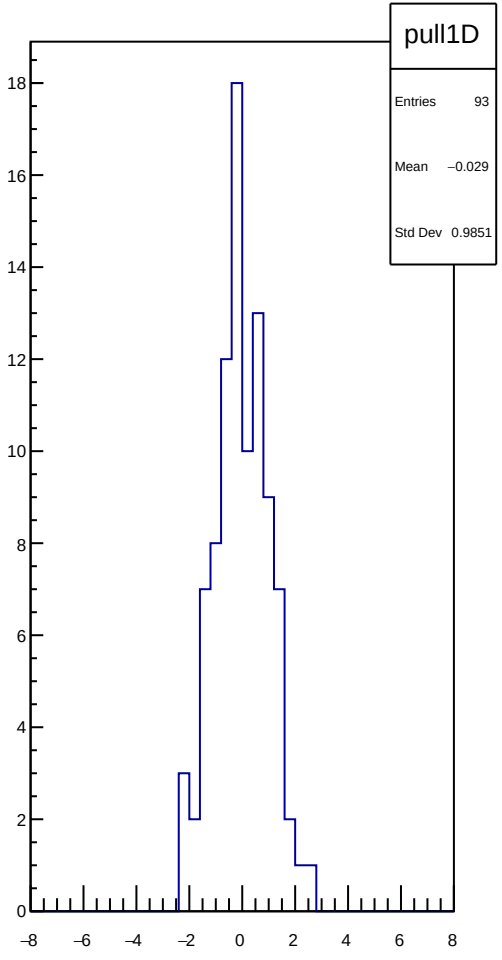

asym_sam_37_26_dd_rms vs run
χ² / ndf 4.289e+04 / 92
p0 211.7 ± 0.1589
260
240
220
200
180
160
140

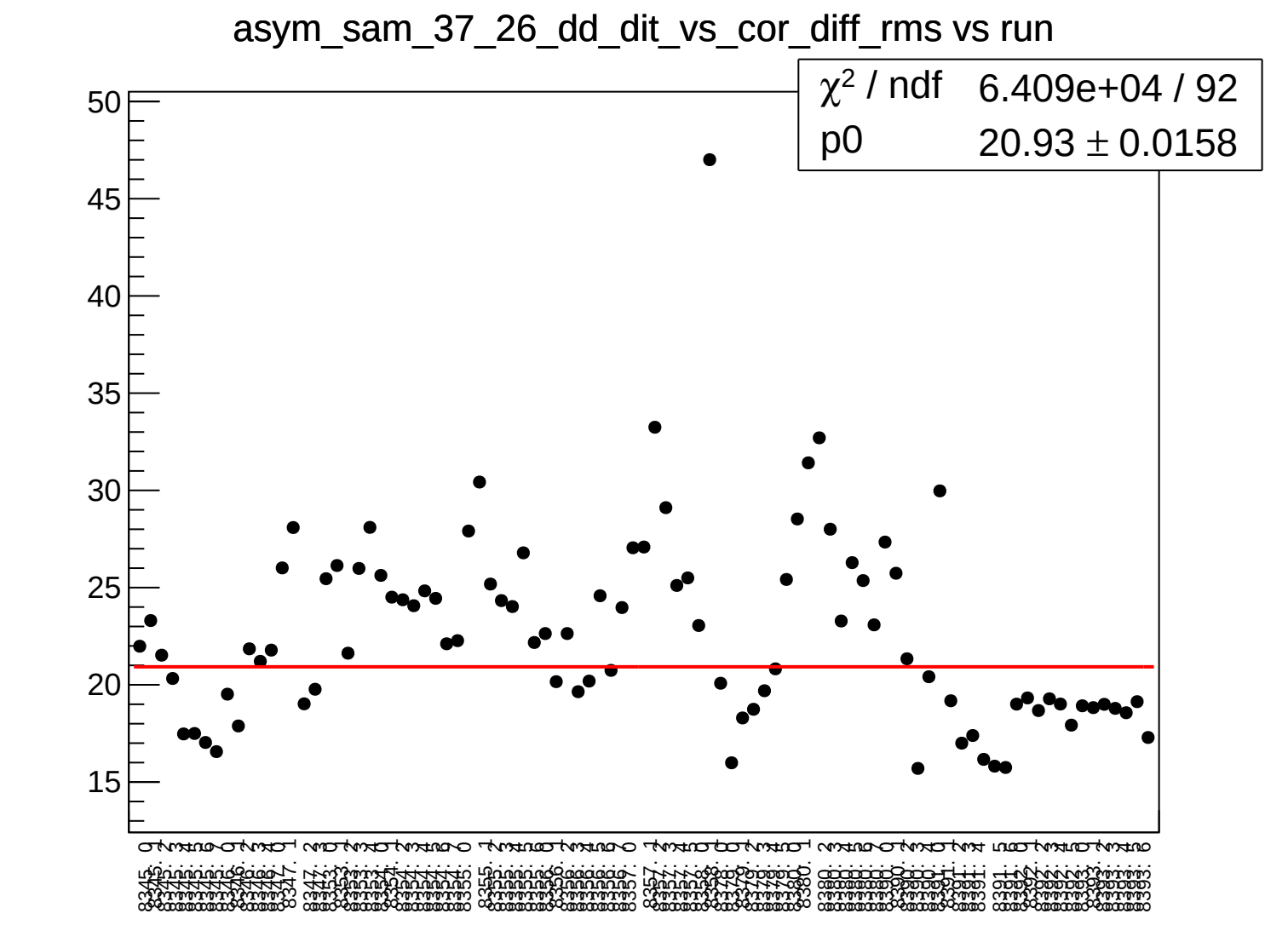

asym_sam_37_26_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 106.2 / 92
p0 −1.958e−14 ± 2.395e−14
pull
Entries 93
Mean −38.76
Std Dev 0

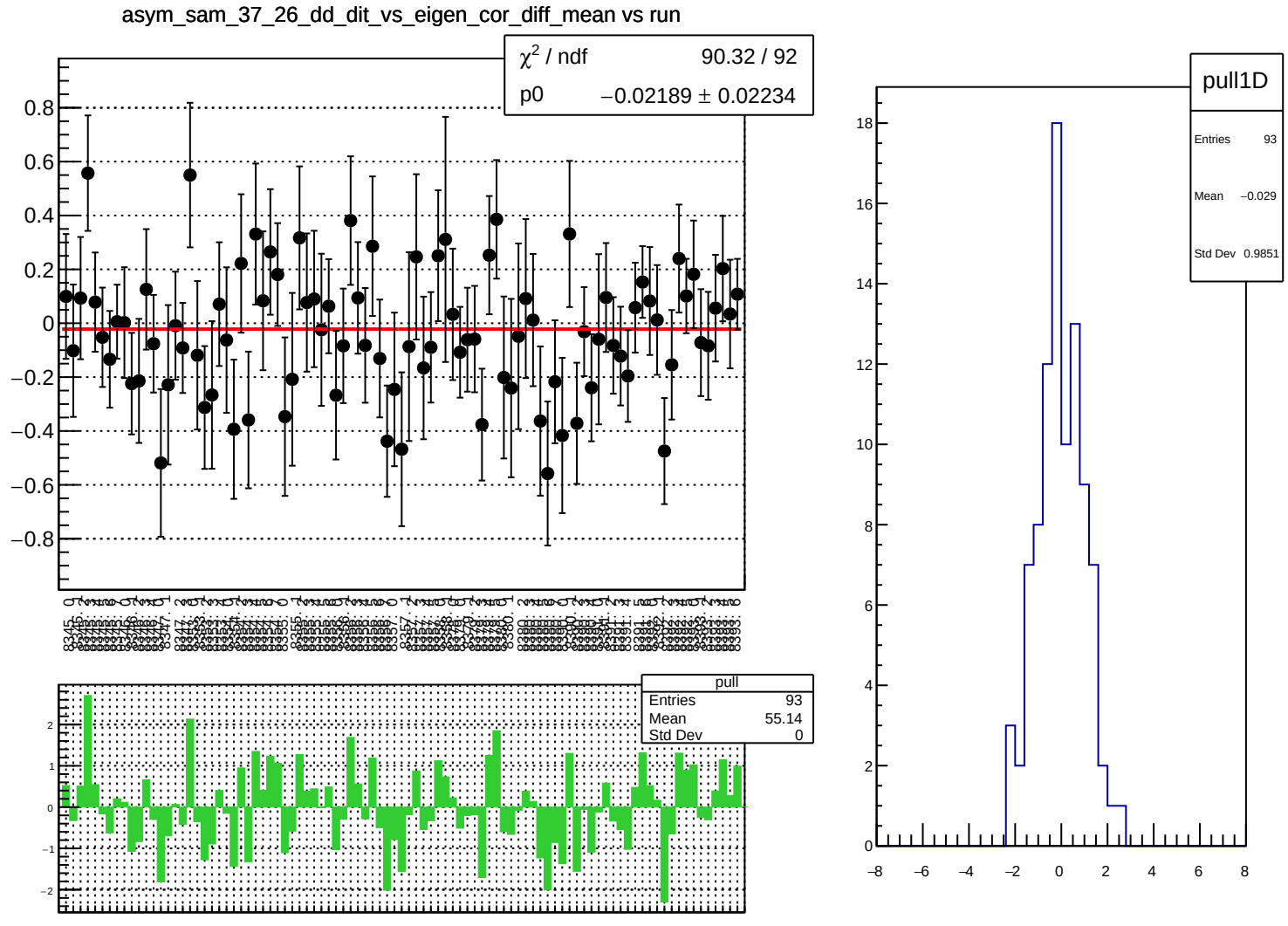

pull1D
Entries 93
Mean −0.07183
Std Dev 1.066

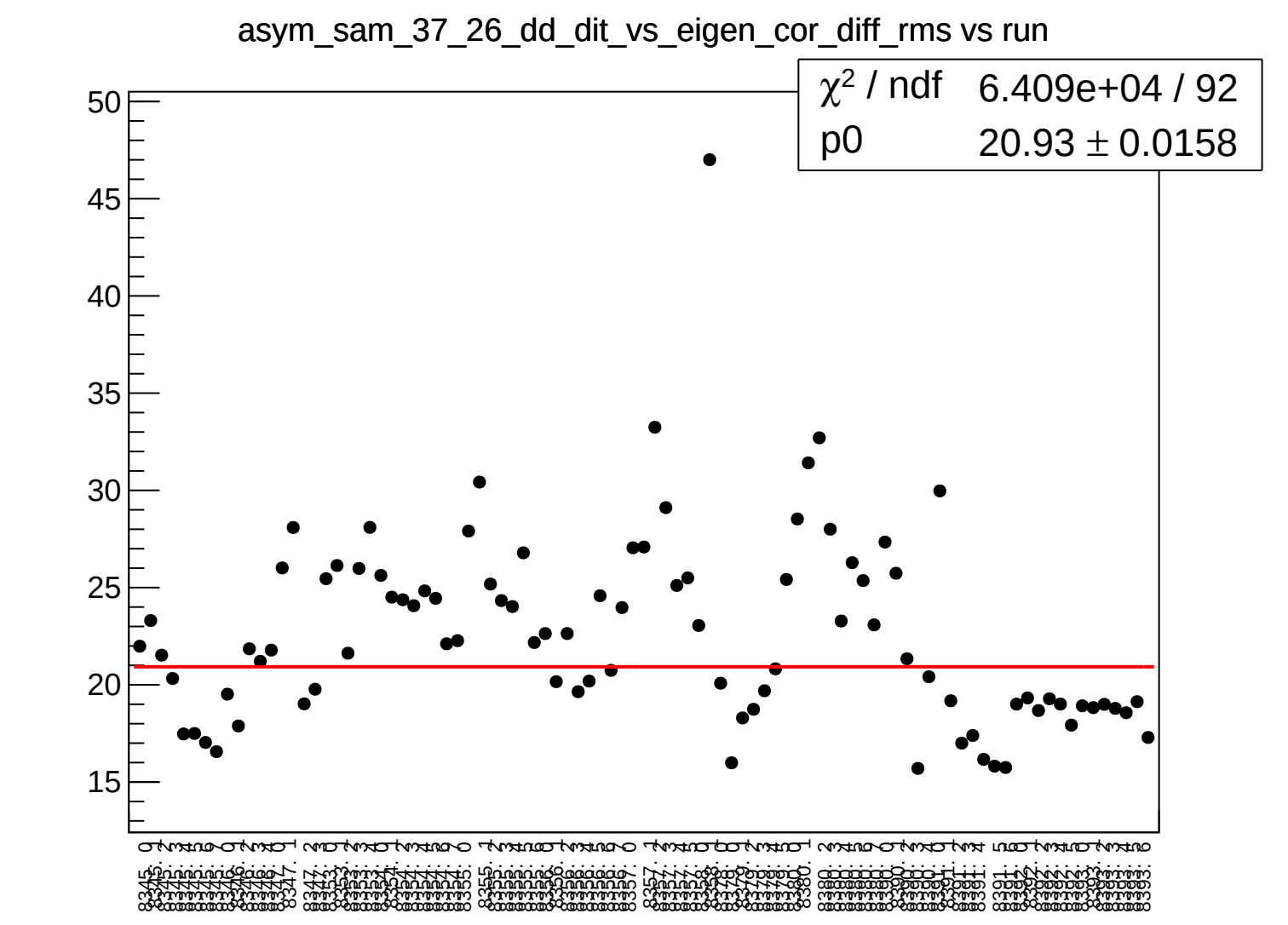

asym_sam_37_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.808e+05 / 92
p0 1.551e−11 ± 1.694e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

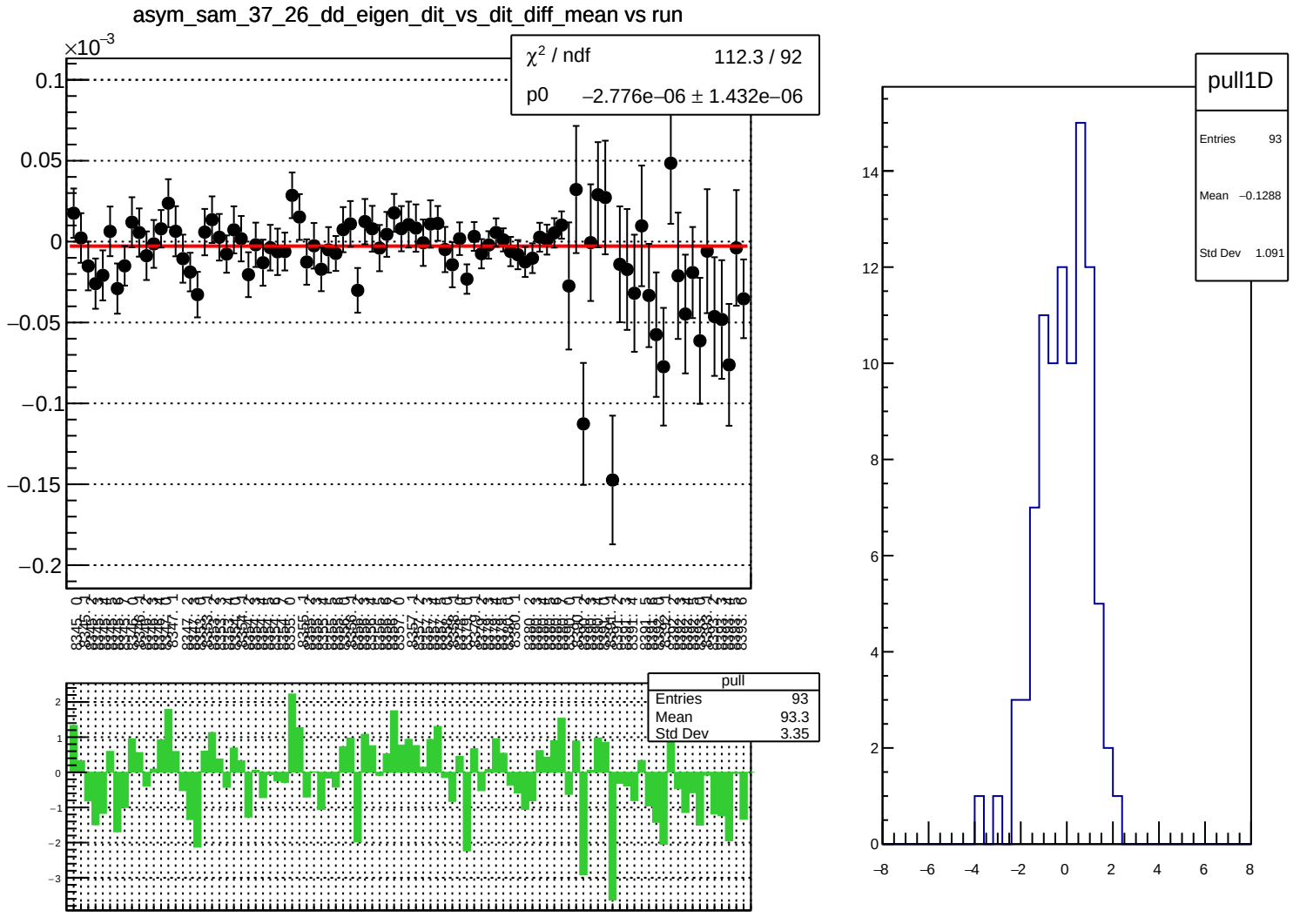

asym_sam_37_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 90.32 / 92
p0 −0.02189 ± 0.02234
pull
Entries 93
Mean 55.14
Std Dev 0

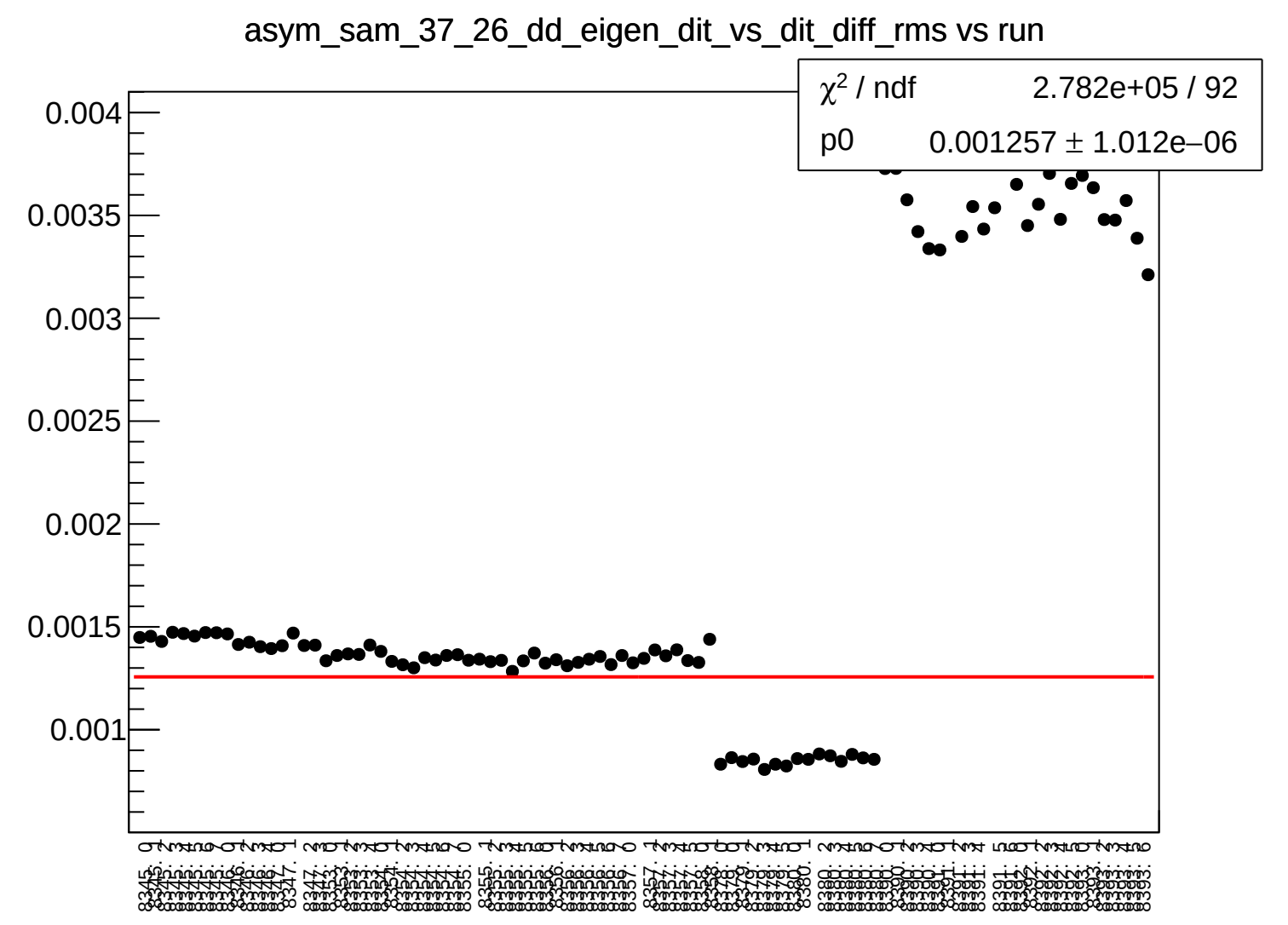

pull1D
Entries 93
Mean −0.029
Std Dev 0.9851

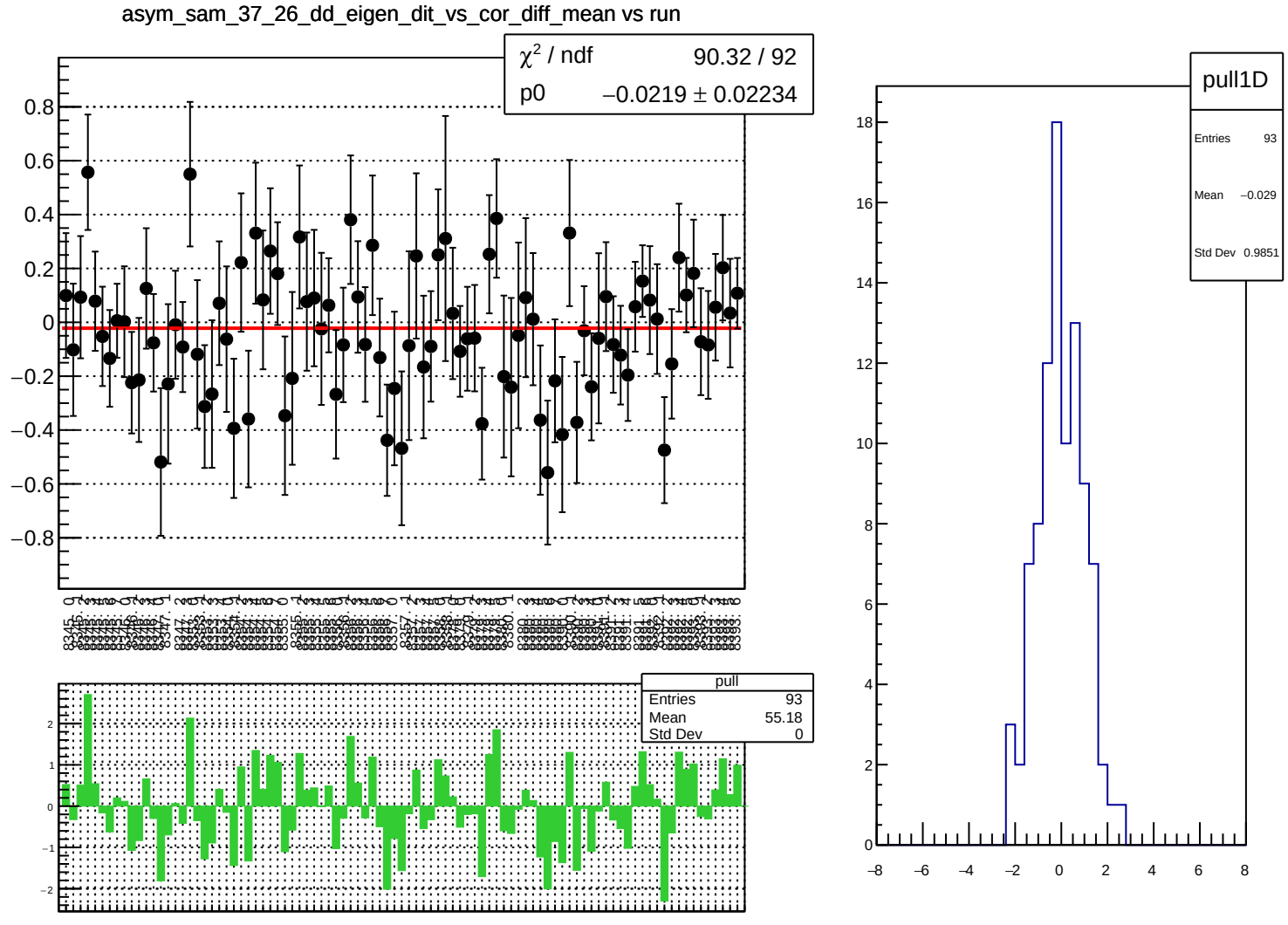

asym_sam_37_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.409e+04 / 92
p0 20.93 ± 0.0158
50
45
40
35
30
25
20
15

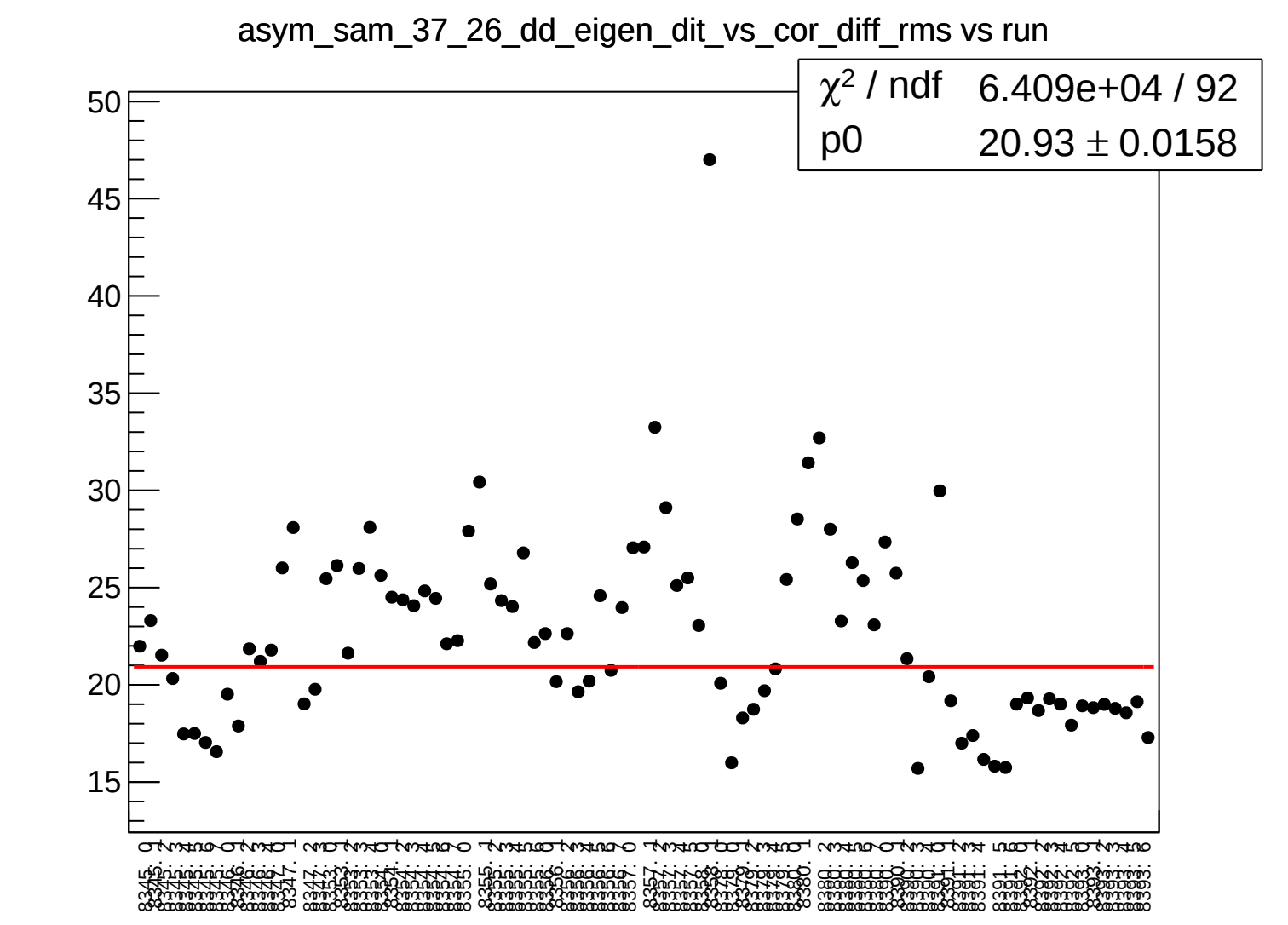

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.32 / 92
p0 −0.02189 ± 0.02234
pull
Entries 93
Mean 55.14
Std Dev 0
pull1D
Entries 93
Mean −0.029
Std Dev 0.9851

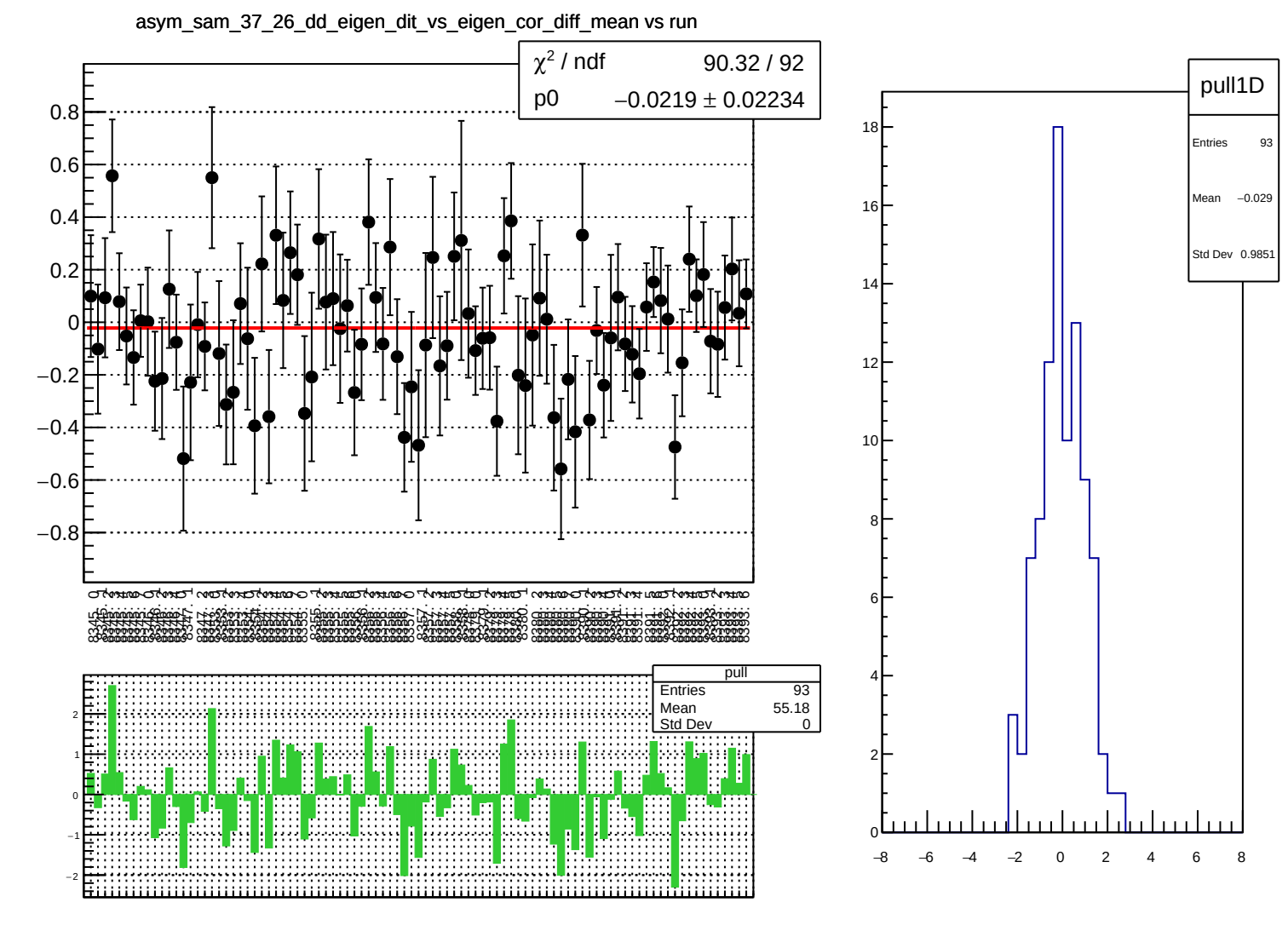

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.409e+04 / 92
p0 20.93 ± 0.0158
50
45
40
35
30
25
20
15

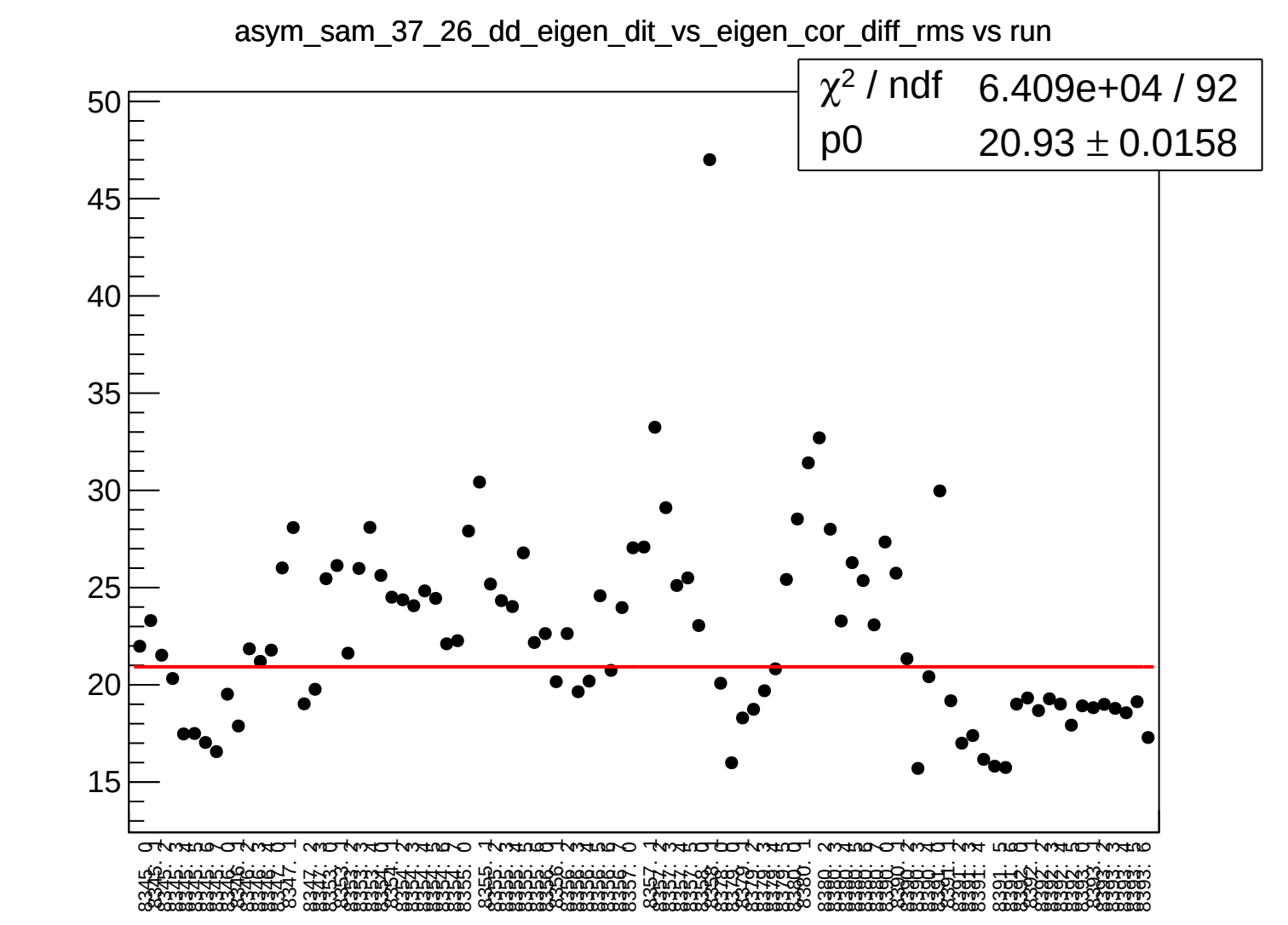

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 112.3 / 92
p0 −2.776e−06 ± 1.432e−06
pull
Entries 93
Mean 93.3
Std Dev 3.35
pull1D
Entries 93
Mean −0.1288
Std Dev 1.091

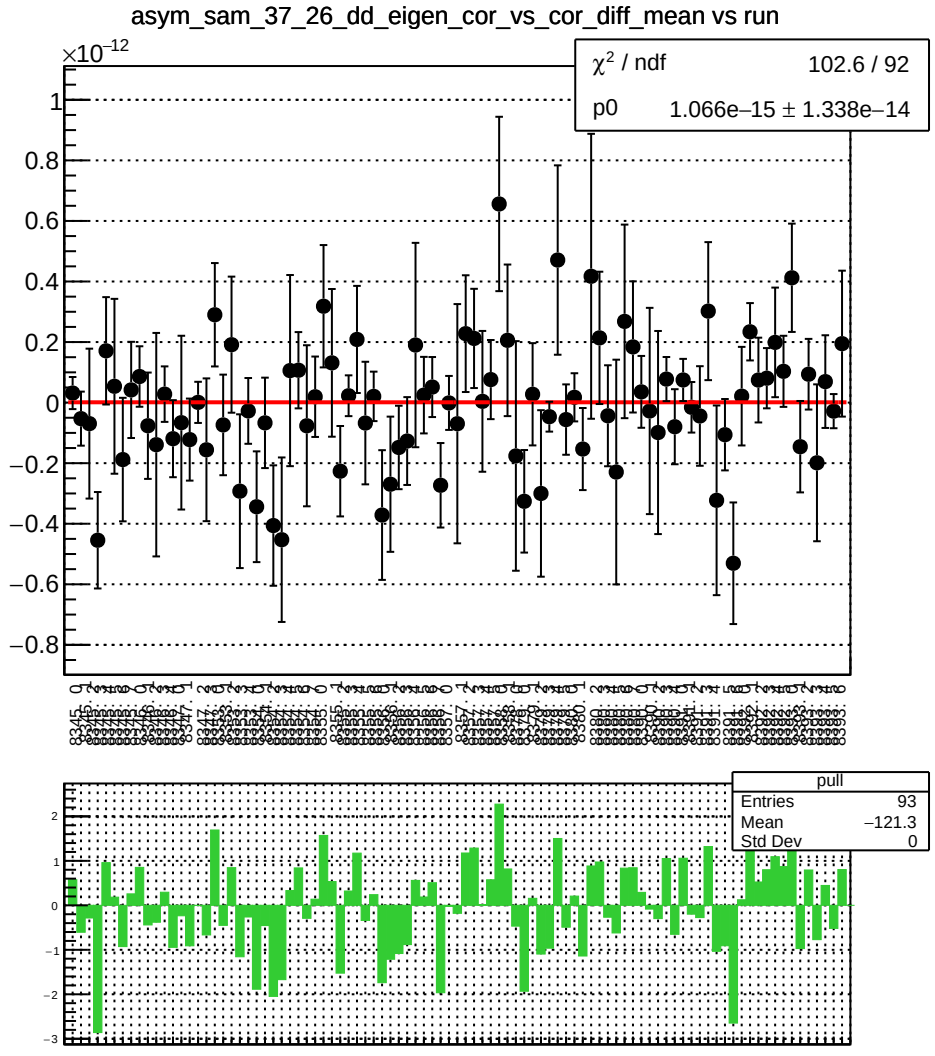

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.782e+05 / 92
p0 0.001257 ± 1.012e−06
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001

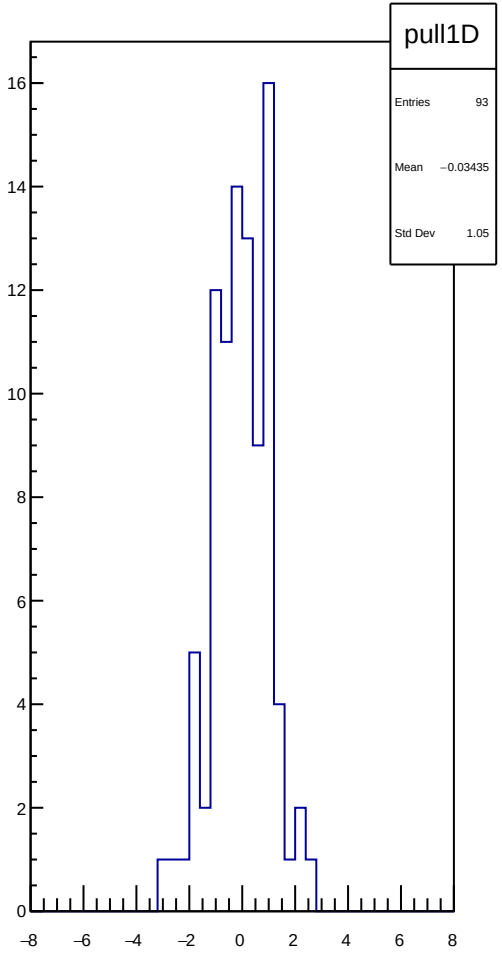

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.32 / 92
p0 −0.0219 ± 0.02234
pull
Entries 93
Mean 55.18
Std Dev 0
pull1D
Entries 93
Mean −0.029
Std Dev 0.9851

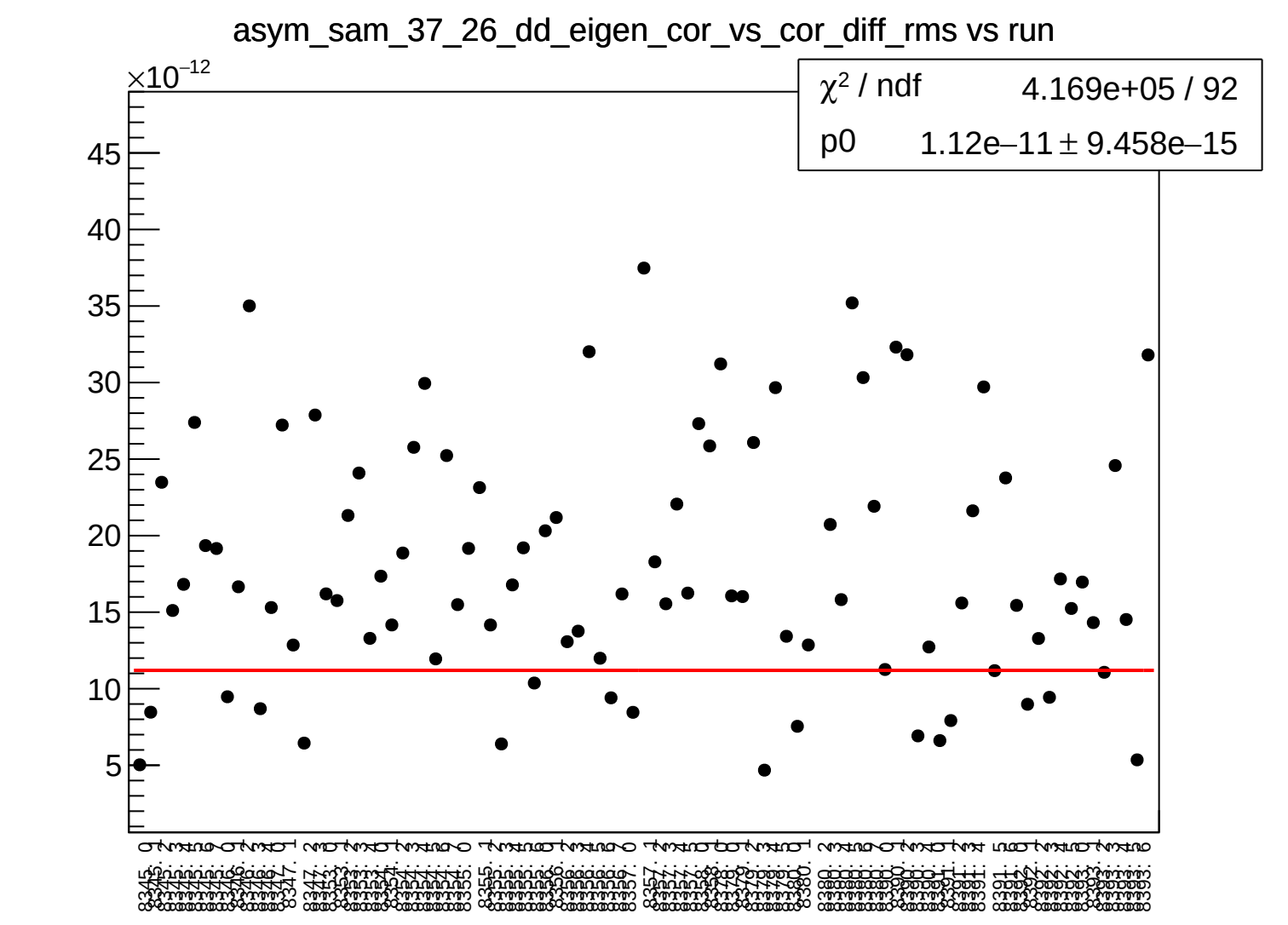

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.409e+04 / 92
p0 20.93 ± 0.0158
50
45
40
35
30
25
20
15

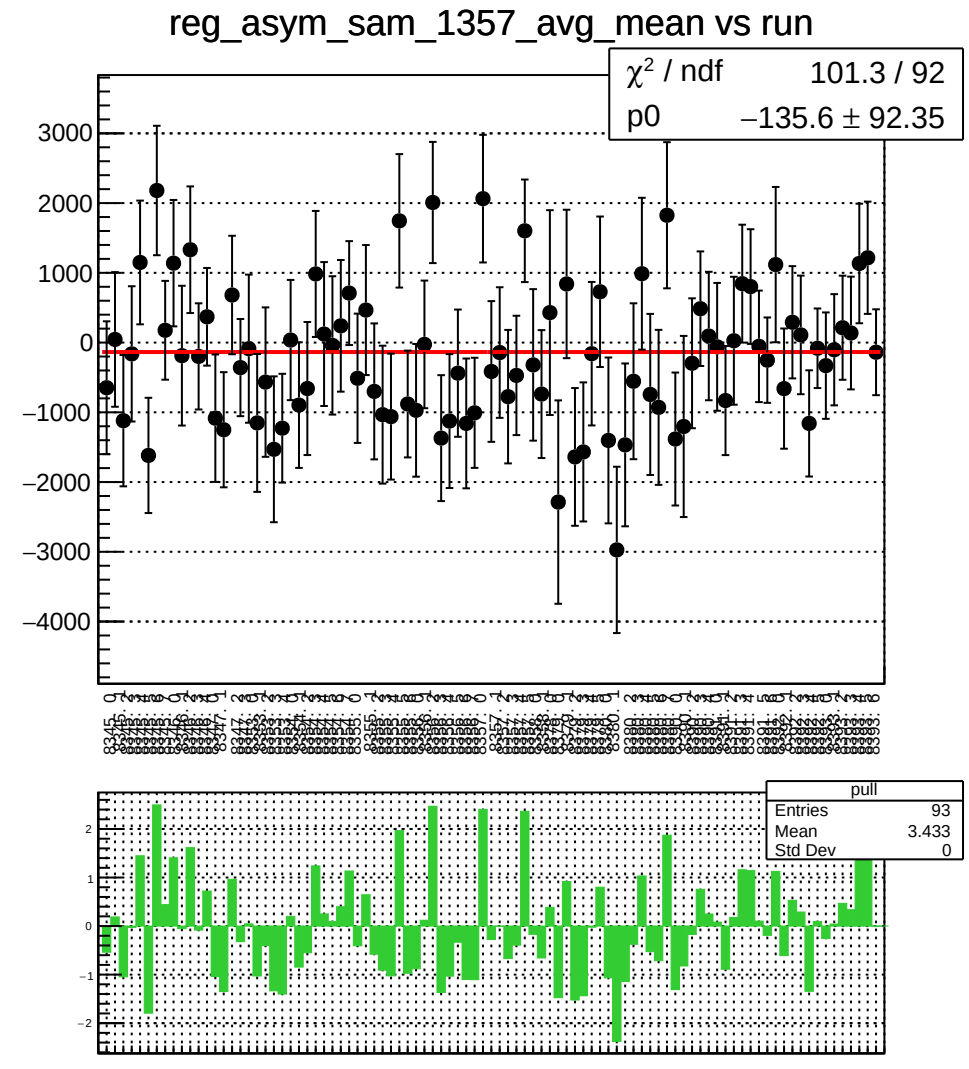

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.32 / 92
p0 −0.0219 ± 0.02234
pull
Entries 93
Mean 55.18
Std Dev 0
pull1D
Entries 93
Mean −0.029
Std Dev 0.9851

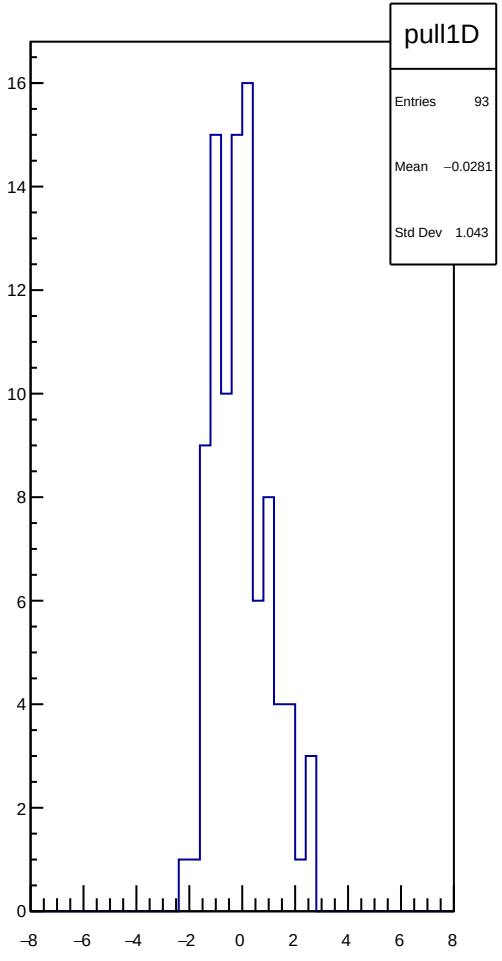

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.409e+04 / 92
p0 20.93 ± 0.0158
50
45
40
35
30
25
20
15

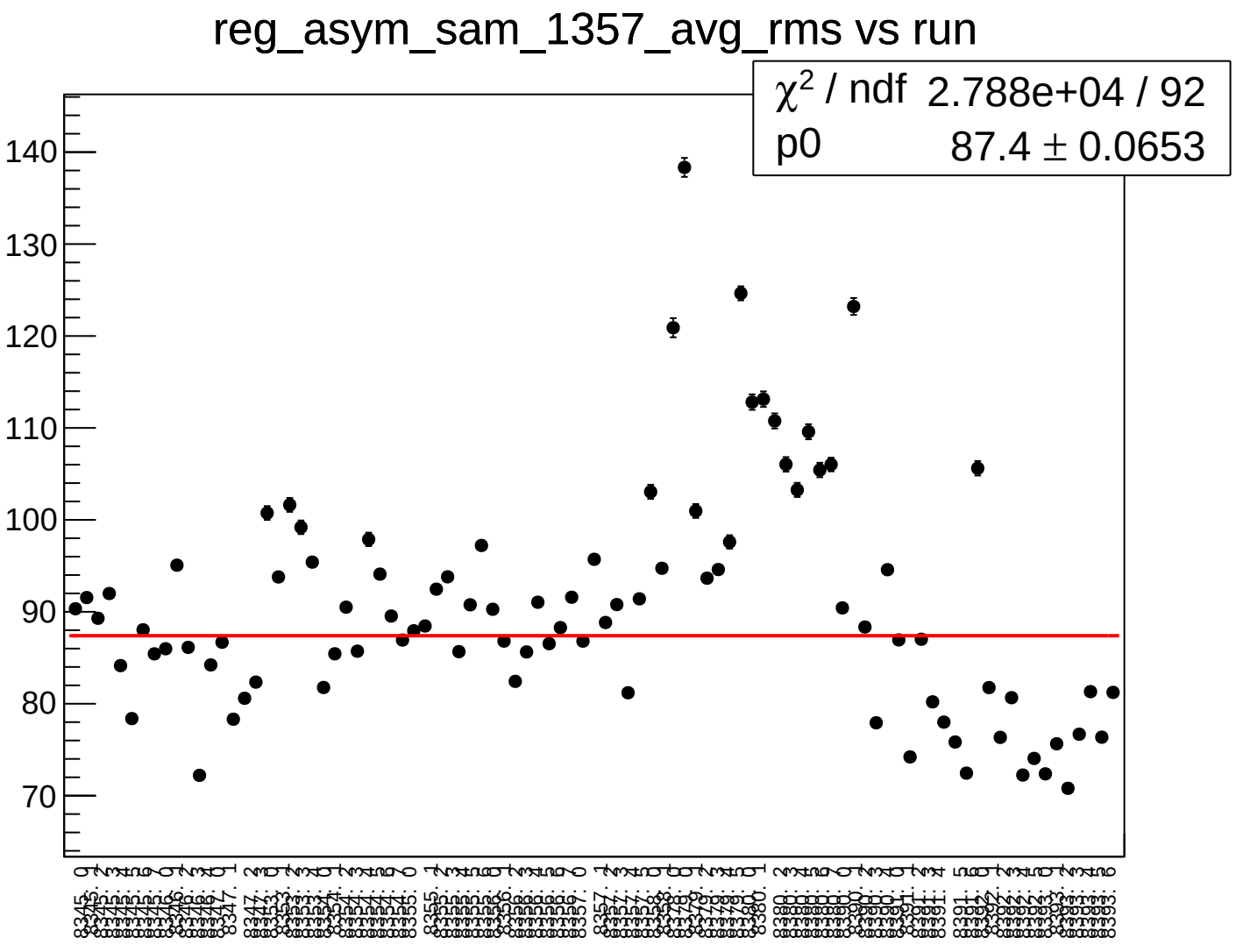

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 102.6 / 92
p0 1.066e−15 ± 1.338e−14
pull
Entries 93
Mean −121.3
Std Dev 0

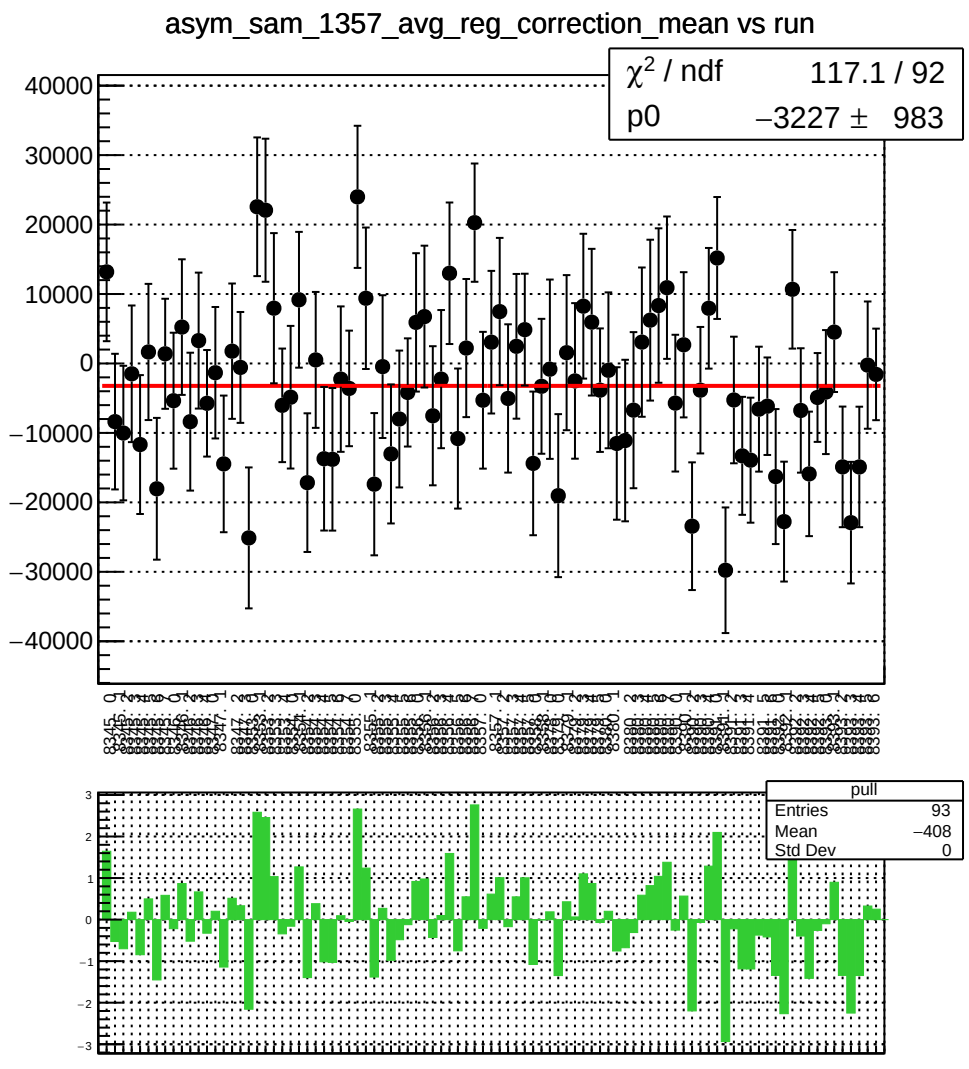

pull1D
Entries 93
Mean −0.03435
Std Dev 1.05

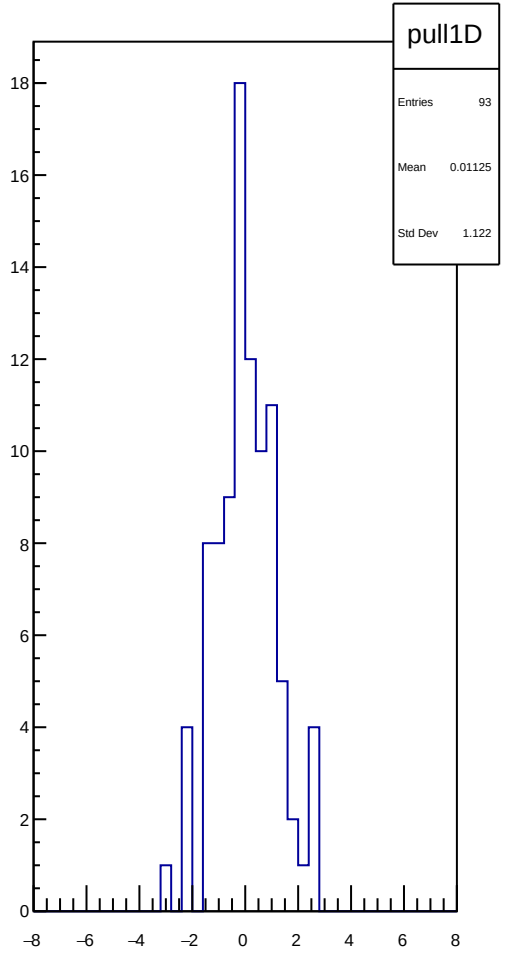

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.169e+05 / 92
p0 1.12e−11 ± 9.458e−15
45
40
35
30
25
20
15
10
5

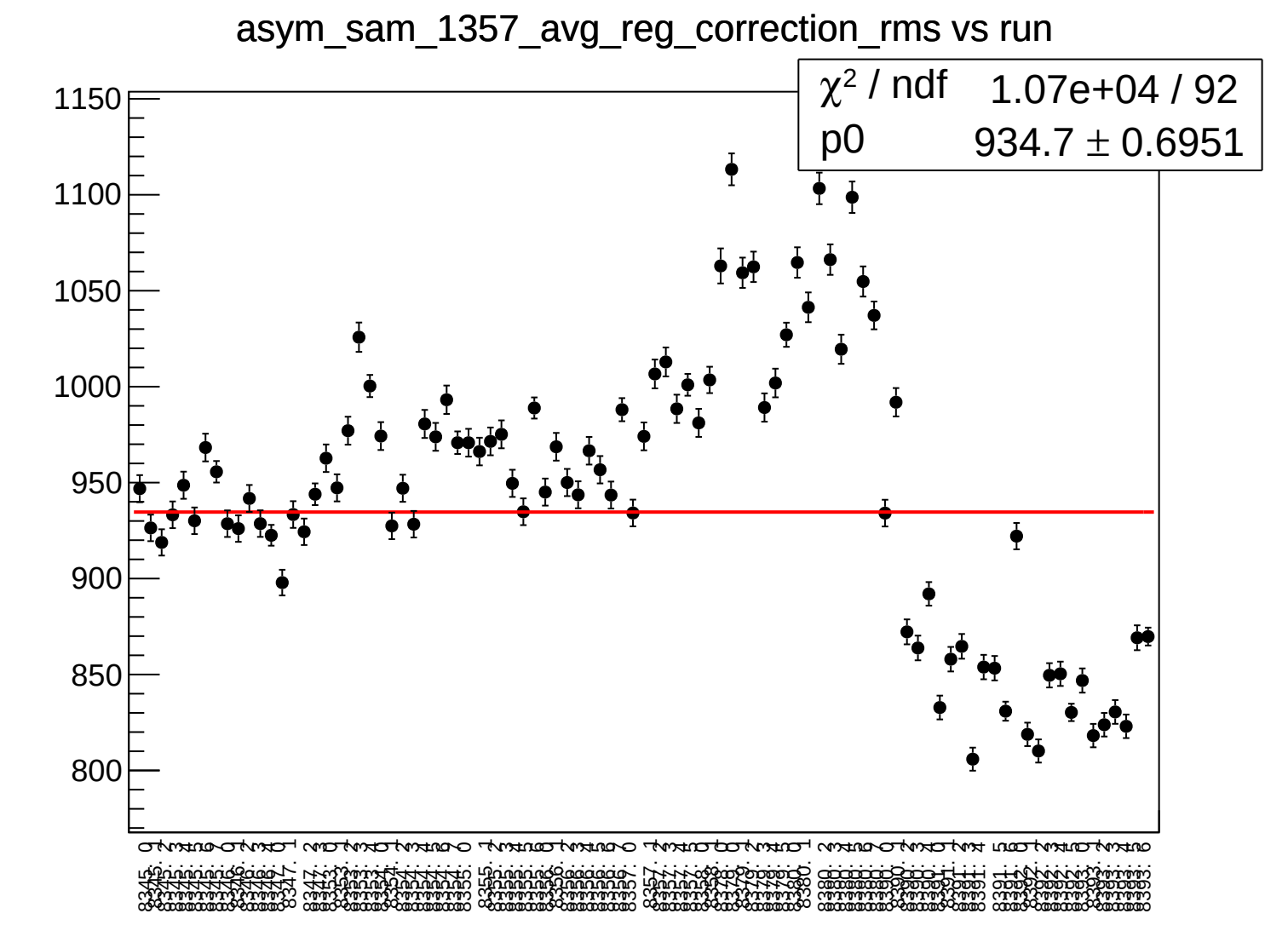

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 101.3 / 92
p0 −135.6 ± 92.35
pull
Entries 93
Mean 3.433
Std Dev 0

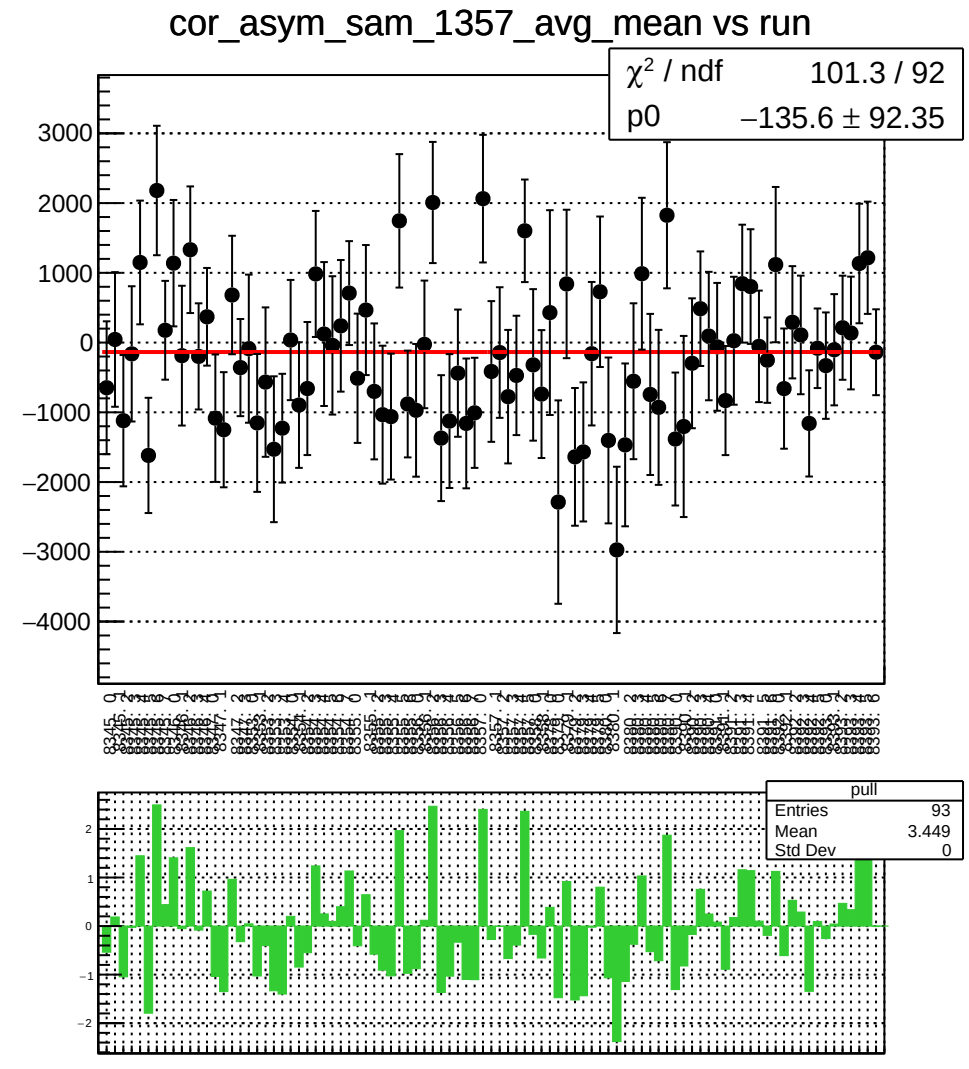

pull1D
Entries 93
Mean −0.0281
Std Dev 1.043

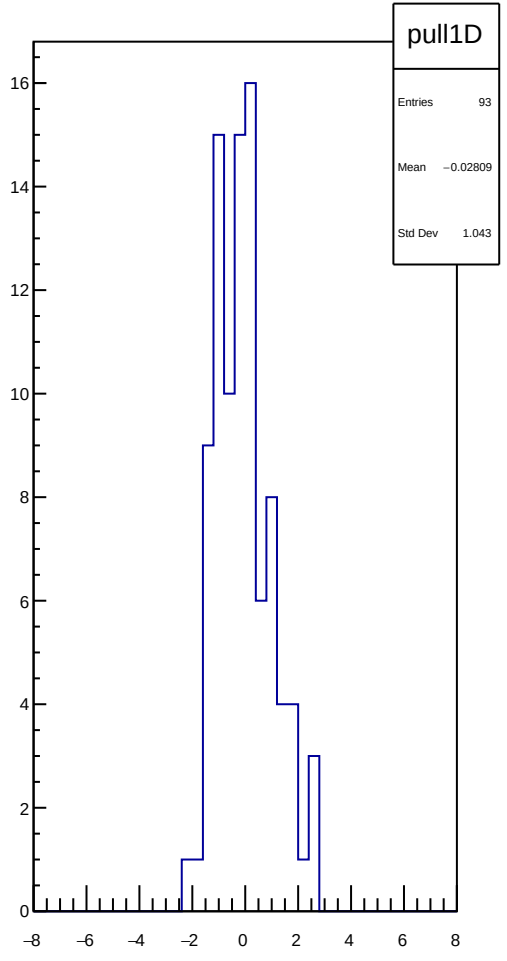

reg_asym_sam_1357_avg_rms vs run
χ^2 / ndf 2.788e+04 / 92
p0 87.4 ± 0.0653
140
130
120
110
100
90
80
70

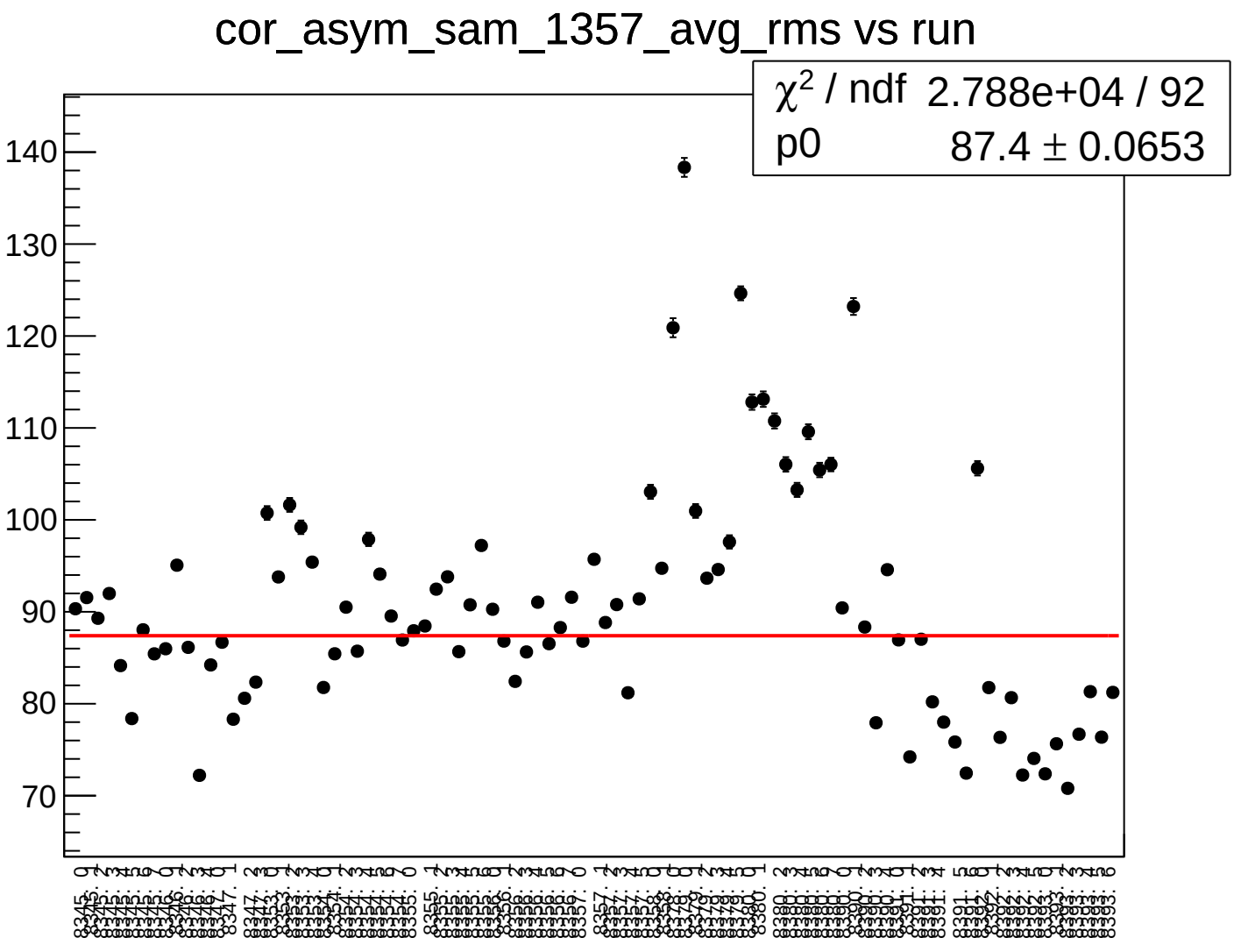

asym_sam_1357_avg_reg_correction_mean vs run
χ² / ndf 117.1 / 92
p0 −3227 ± 983
pull
Entries 93
Mean −408
Std Dev 0

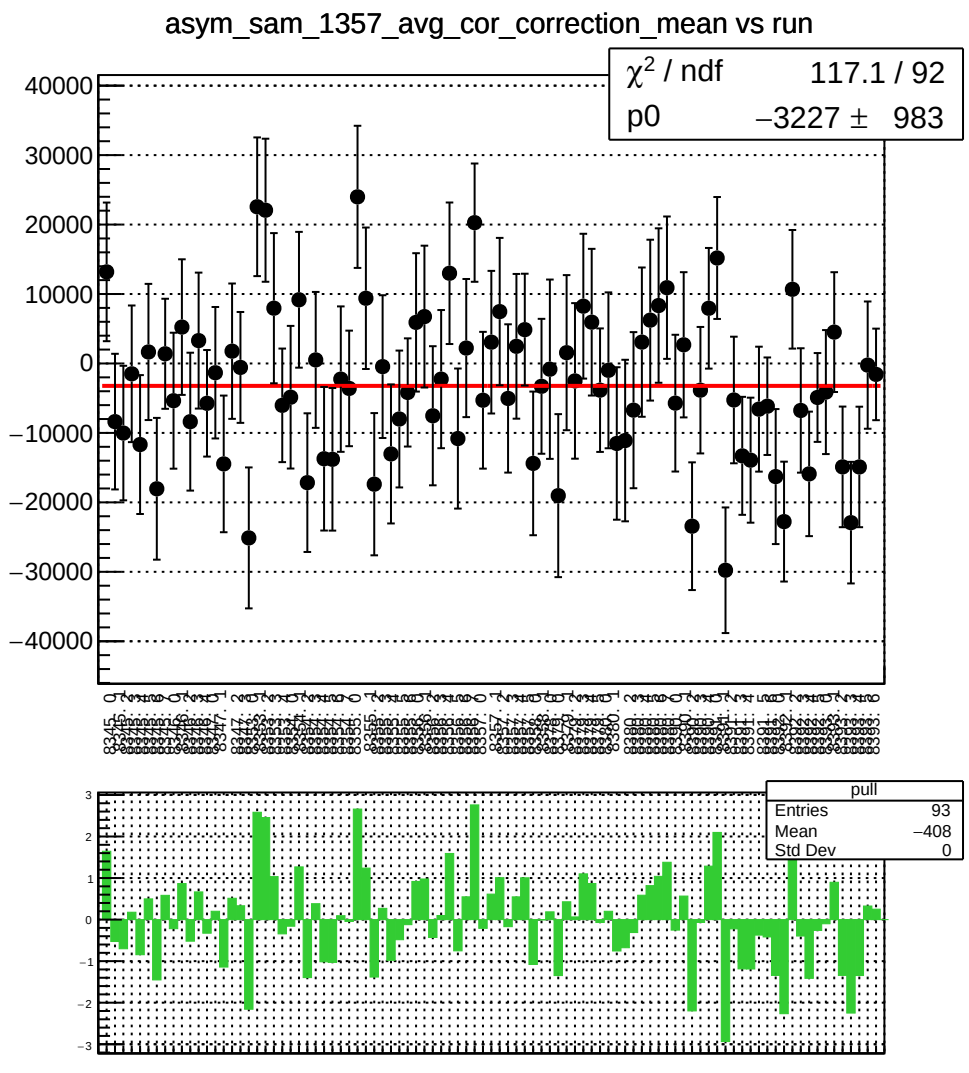

pull1D
Entries 93
Mean 0.01125
Std Dev 1.122

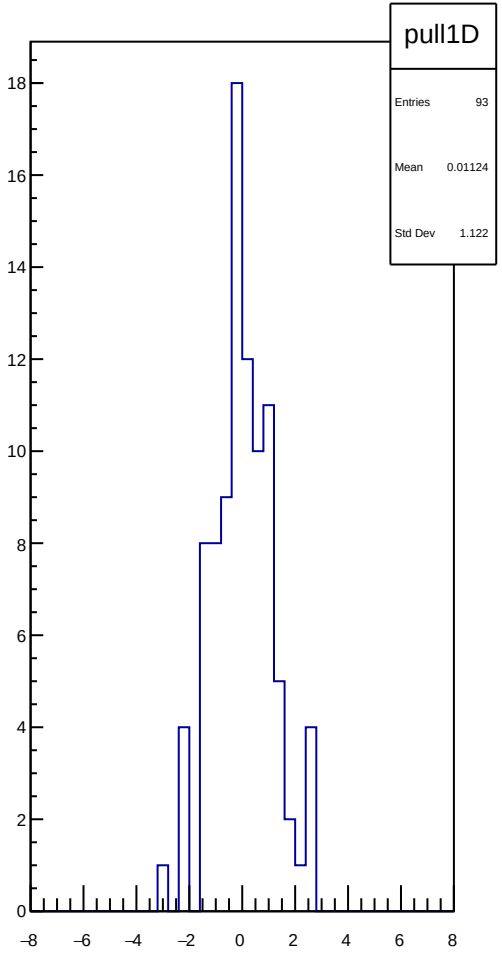

asym_sam_1357_avg_reg_correction_rms vs run
χ² / ndf 1.07e+04 / 92
p0 934.7 ± 0.6951
1150
1100
1050
1000
950
900
850
800

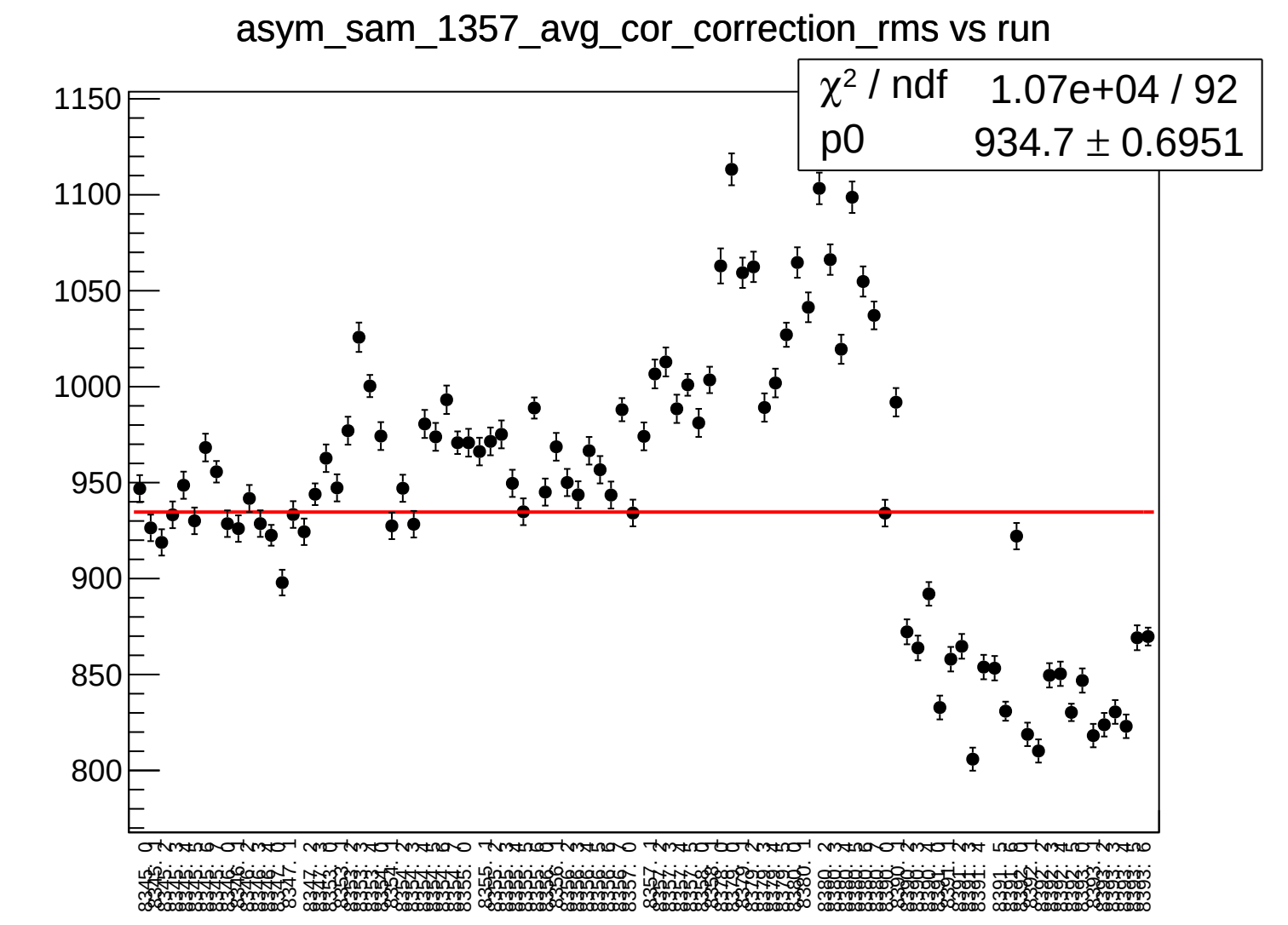

cor_asym_sam_1357_avg_mean vs run
χ² / ndf 101.3 / 92
p0 −135.6 ± 92.35
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 93
Mean 3.449
Std Dev 0
2
1
0
−1
−2

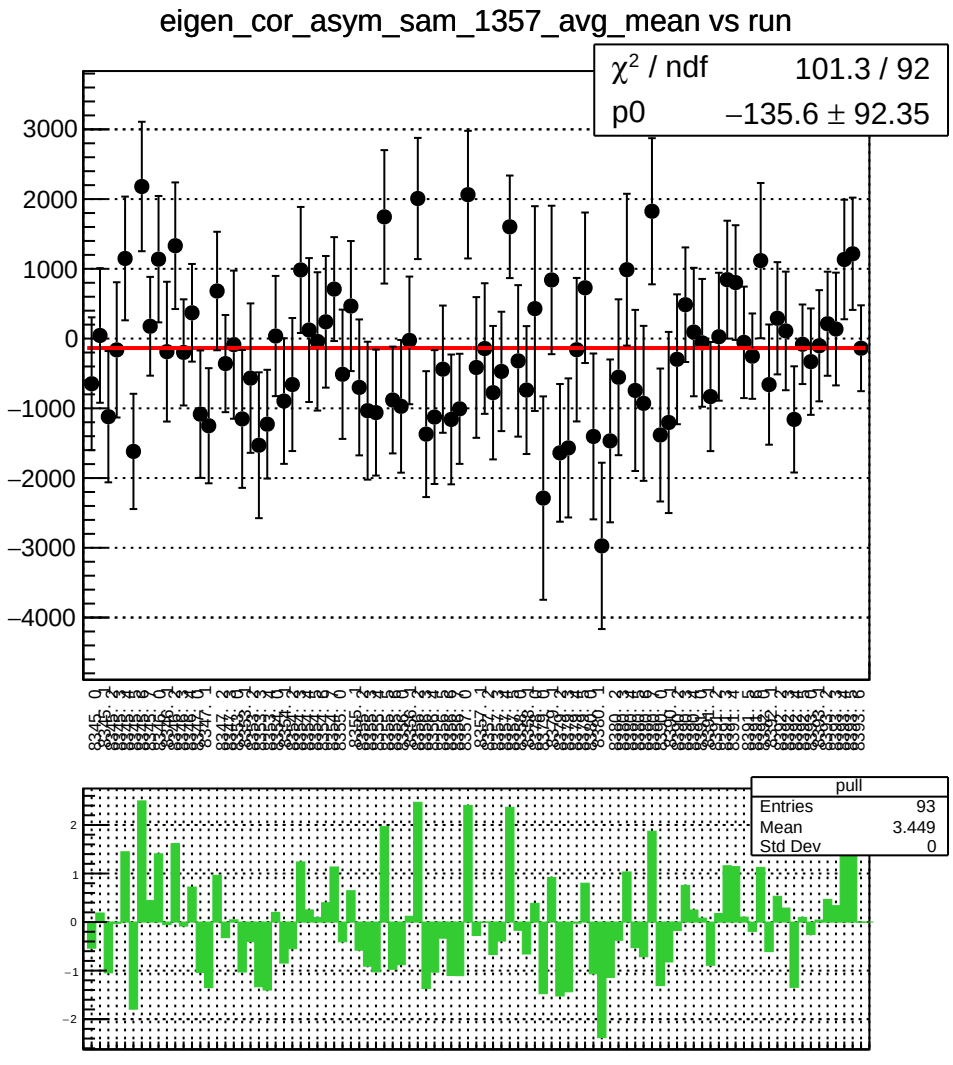

pull1D
Entries 93
Mean −0.02809
Std Dev 1.043
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

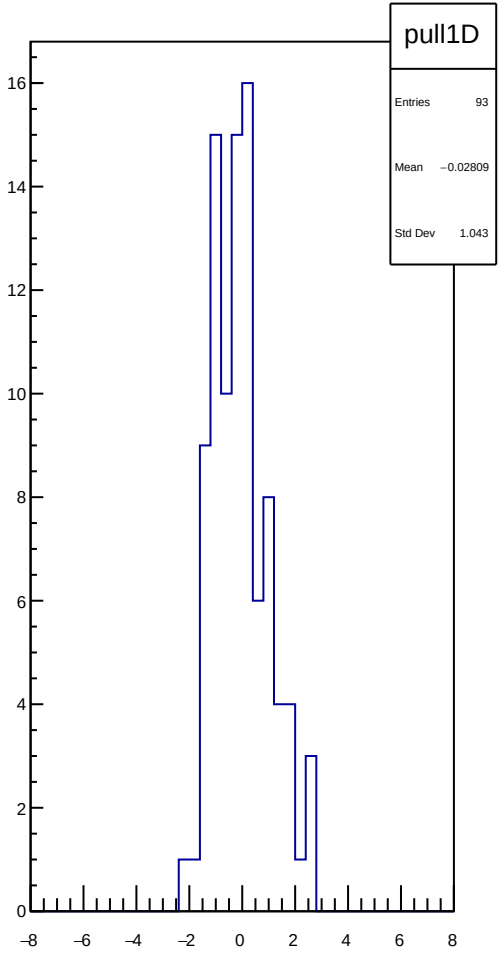

cor_asym_sam_1357_avg_rms vs run
χ² / ndf 2.788e+04 / 92
p0 87.4 ± 0.0653
140
130
120
110
100
90
80
70

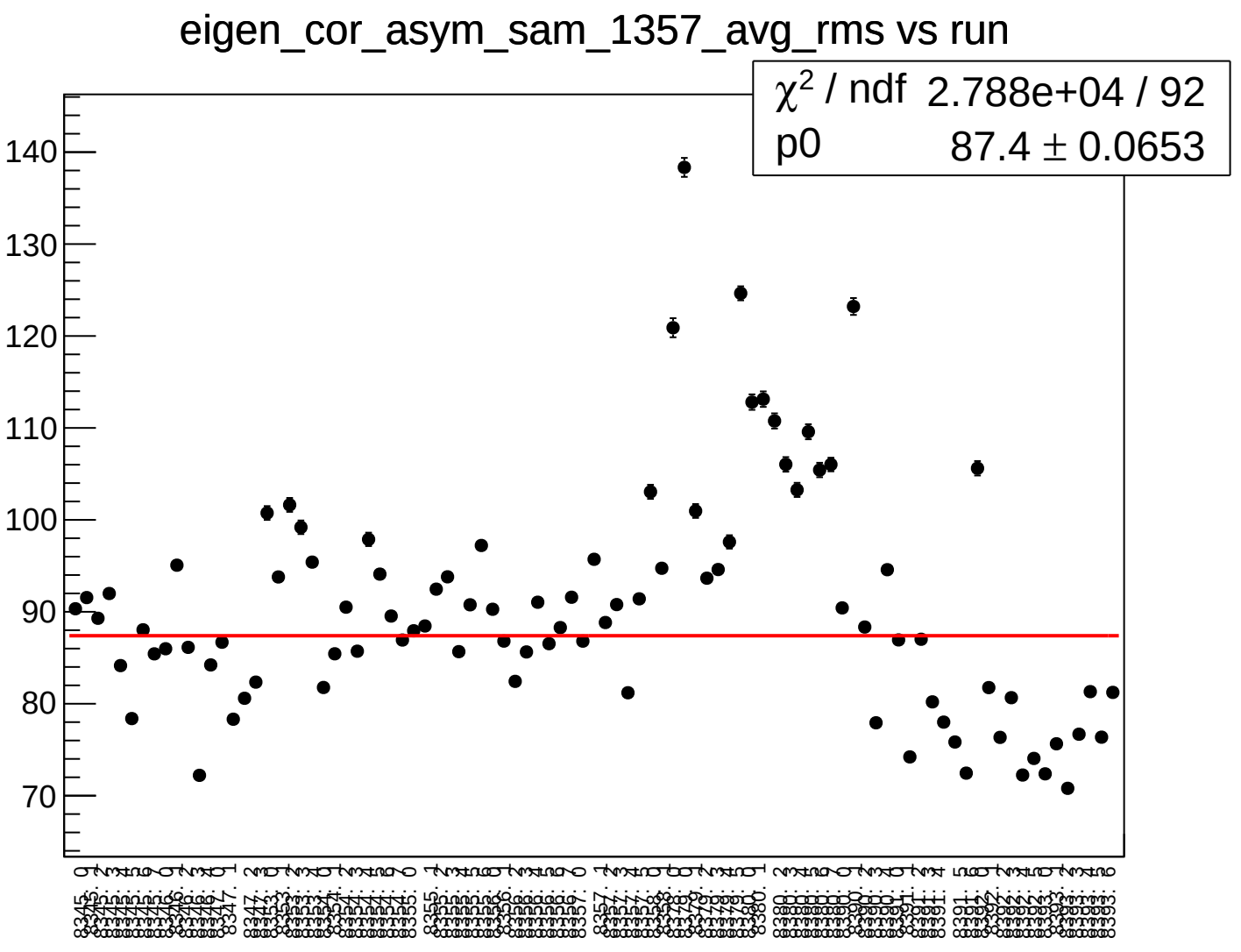

asym_sam_1357_avg_cor_correction_mean vs run
χ² / ndf 117.1 / 92
p0 −3227 ± 983
pull
Entries 93
Mean −408
Std Dev 0

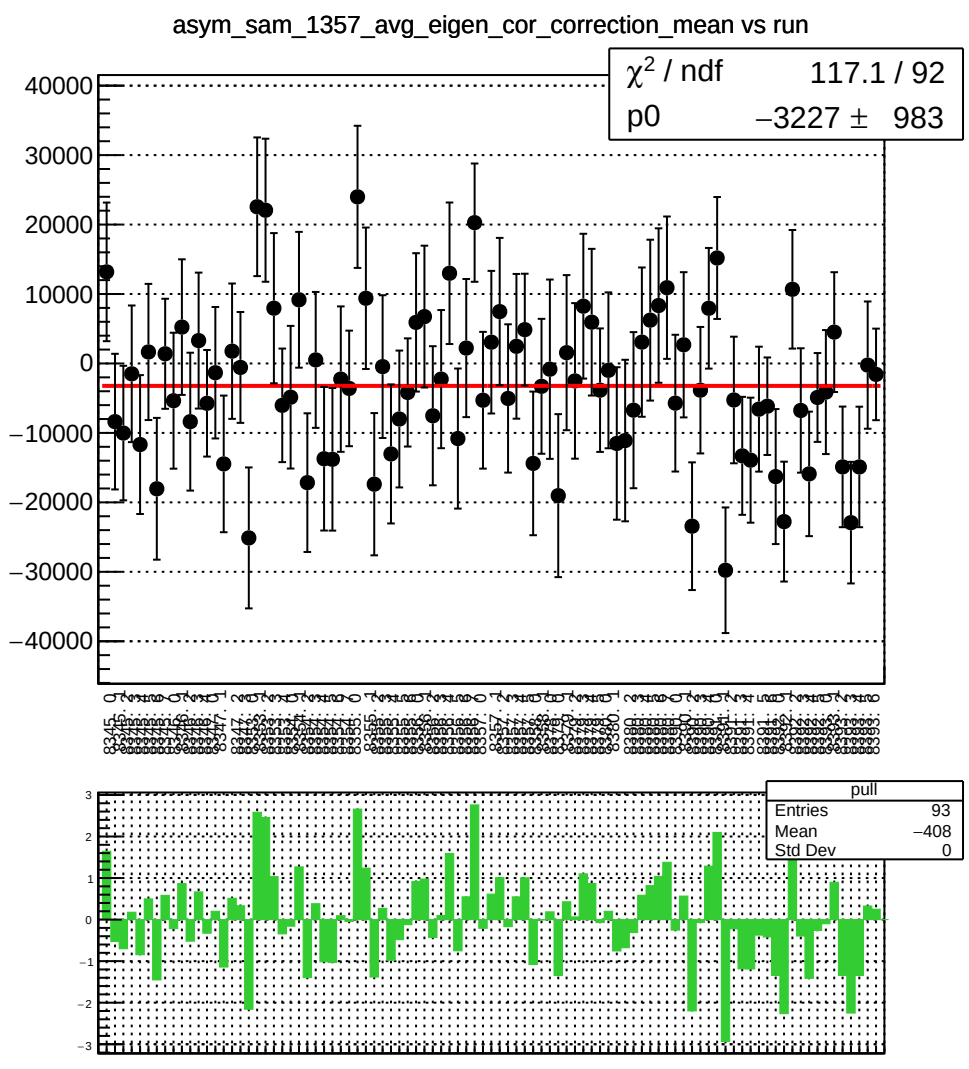

pull1D
Entries 93
Mean 0.01124
Std Dev 1.122

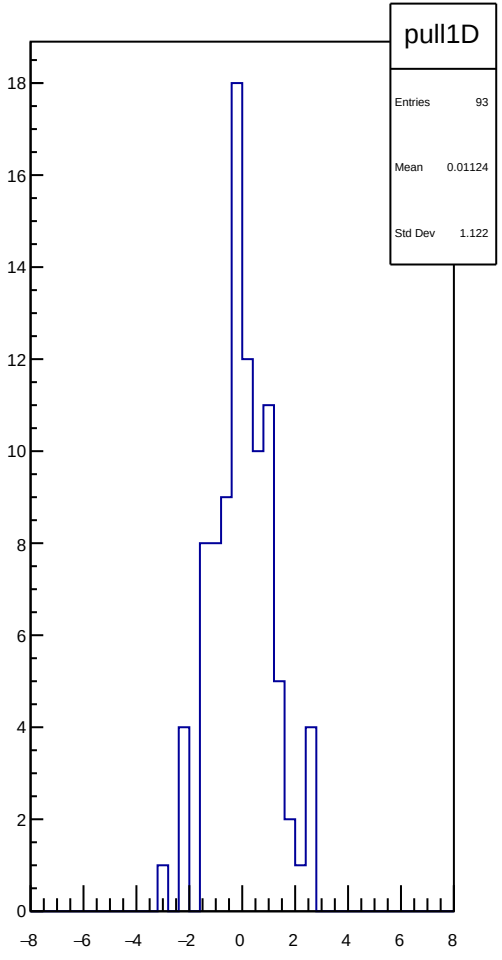

asym_sam_1357_avg_cor_correction_rms vs run
χ² / ndf 1.07e+04 / 92
p0 934.7 ± 0.6951
1150
1100
1050
1000
950
900
850
800

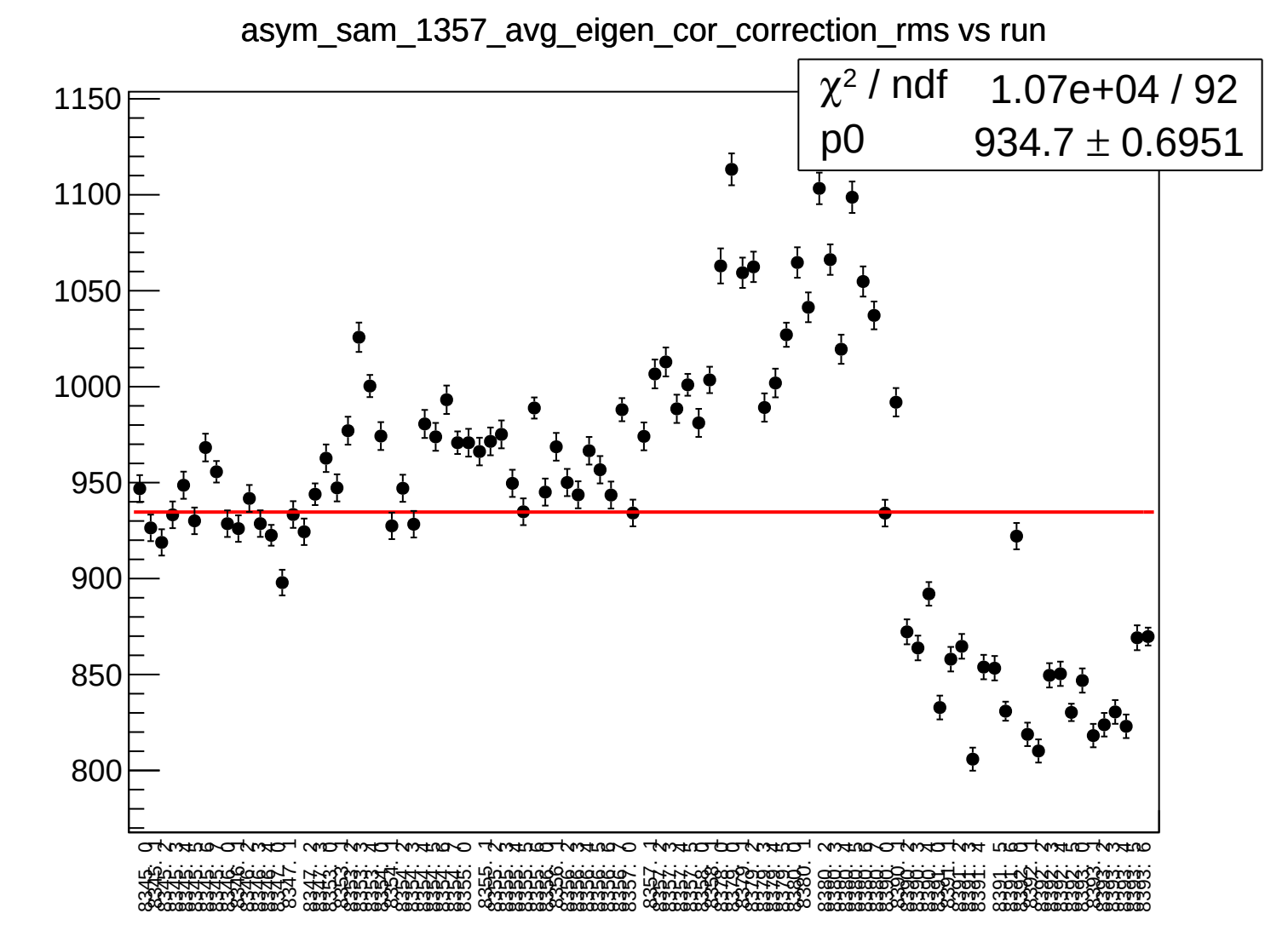

eigen_cor_asym_sam_1357_avg_mean vs run
χ² / ndf 101.3 / 92
p0 −135.6 ± 92.35
pull
Entries 93
Mean 3.449
Std Dev 0

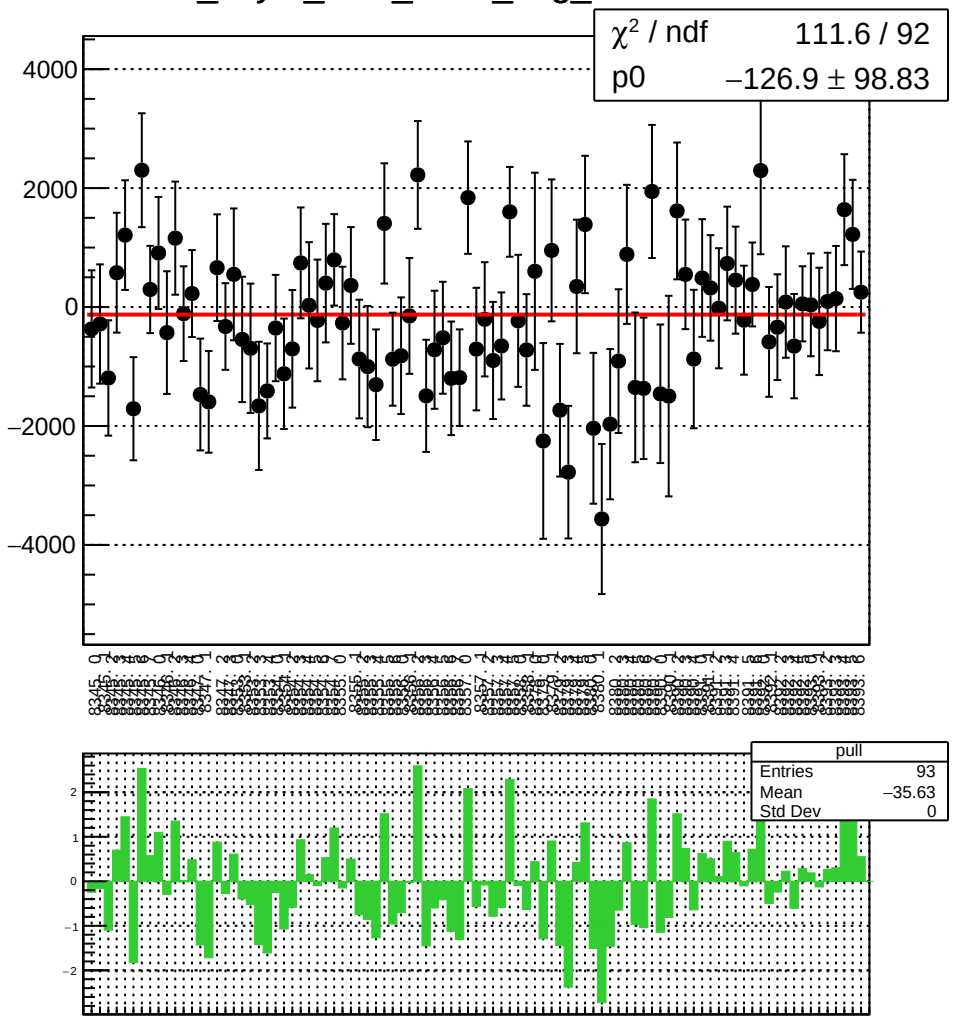

pull1D
Entries 93
Mean −0.02809
Std Dev 1.043

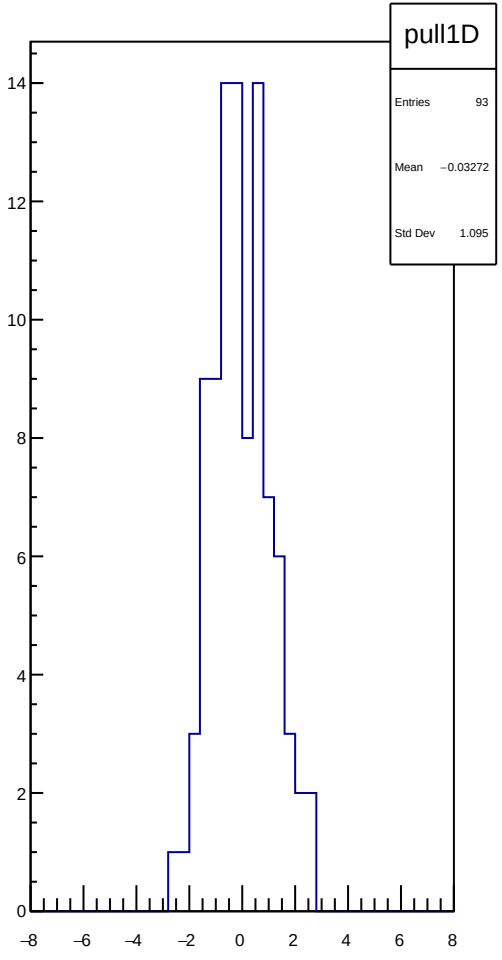

eigen_cor_asym_sam_1357_avg_rms vs run
χ² / ndf 2.788e+04 / 92
p0 87.4 ± 0.0653
140
130
120
110
100
90
80
70

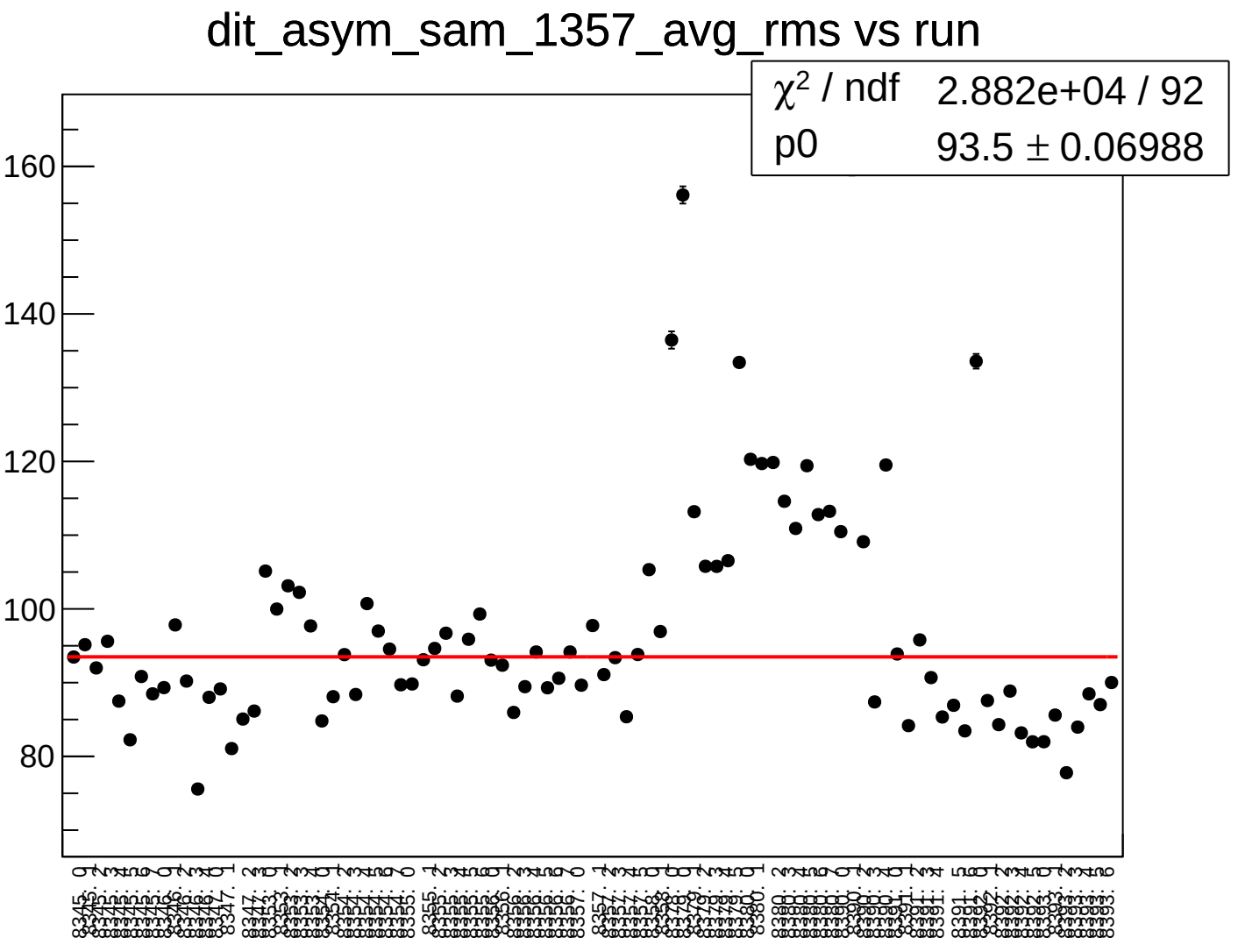

asym_sam_1357_avg_eigen_cor_correction_mean vs run
χ² / ndf 117.1 / 92
p0 −3227 ± 983
pull
Entries 93
Mean −408
Std Dev 0

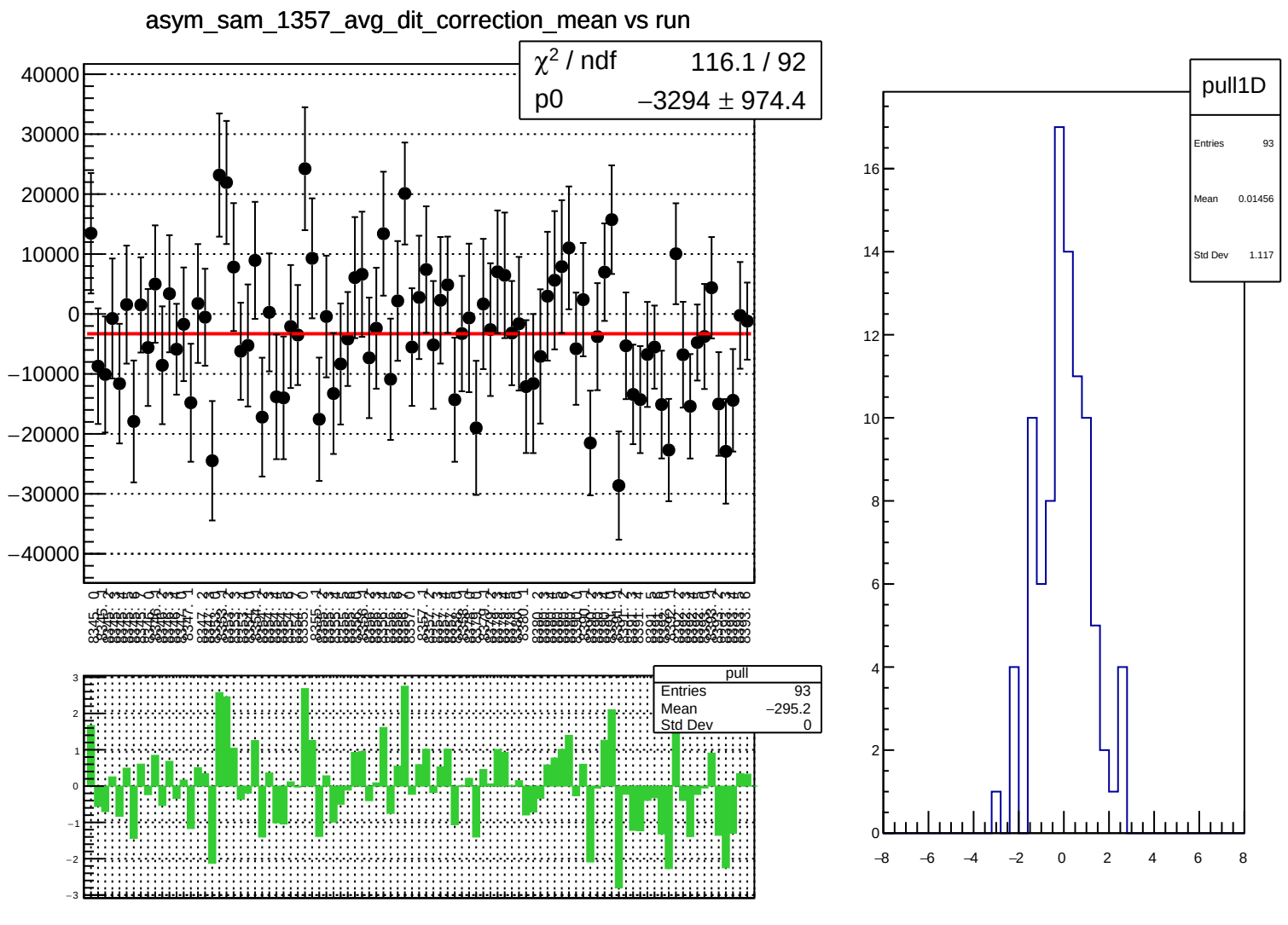

pull1D
Entries 93
Mean 0.01124
Std Dev 1.122

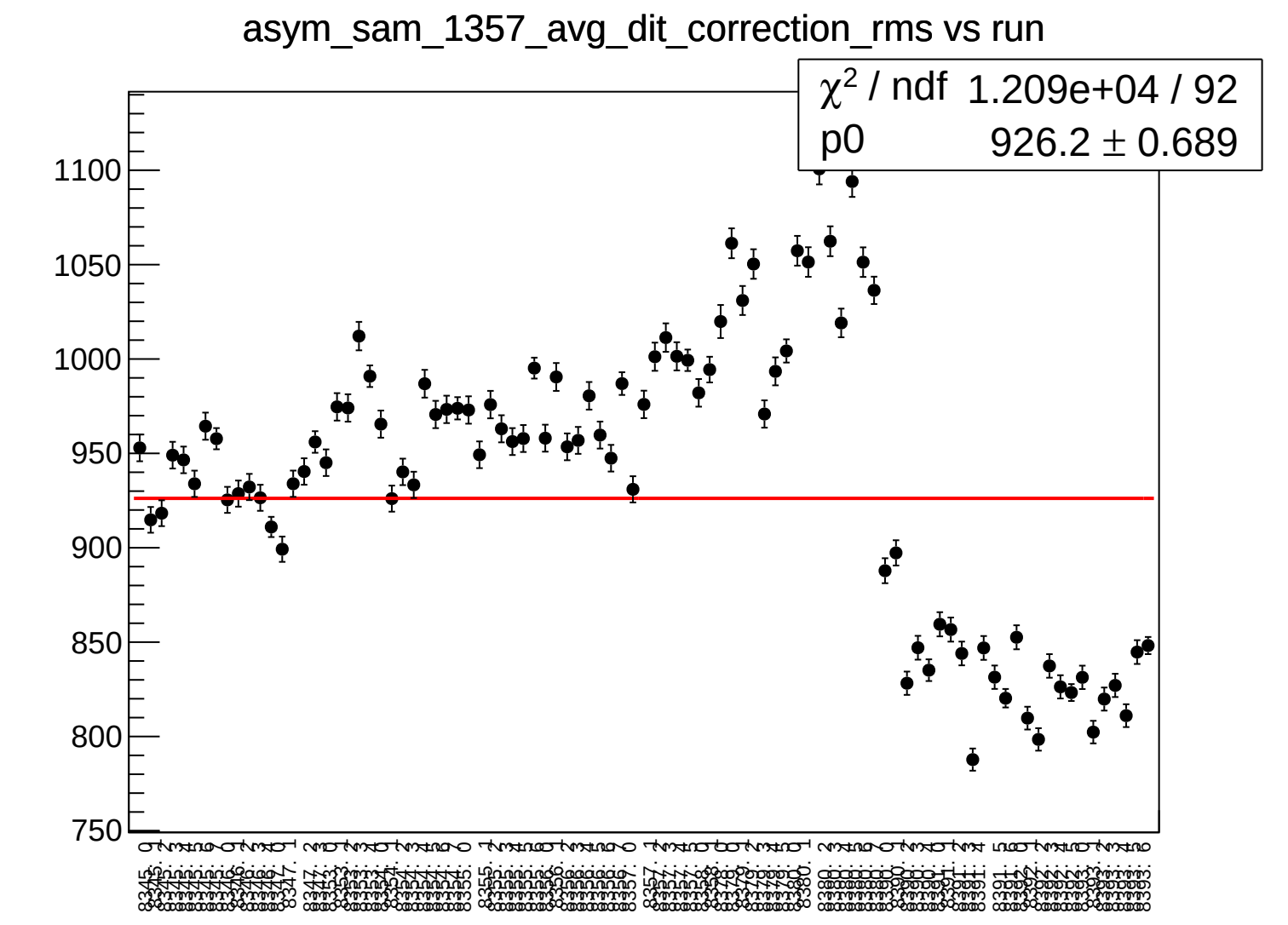

asym_sam_1357_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.07e+04 / 92
p0 934.7 ± 0.6951
1150
1100
1050
1000
950
900
850
800

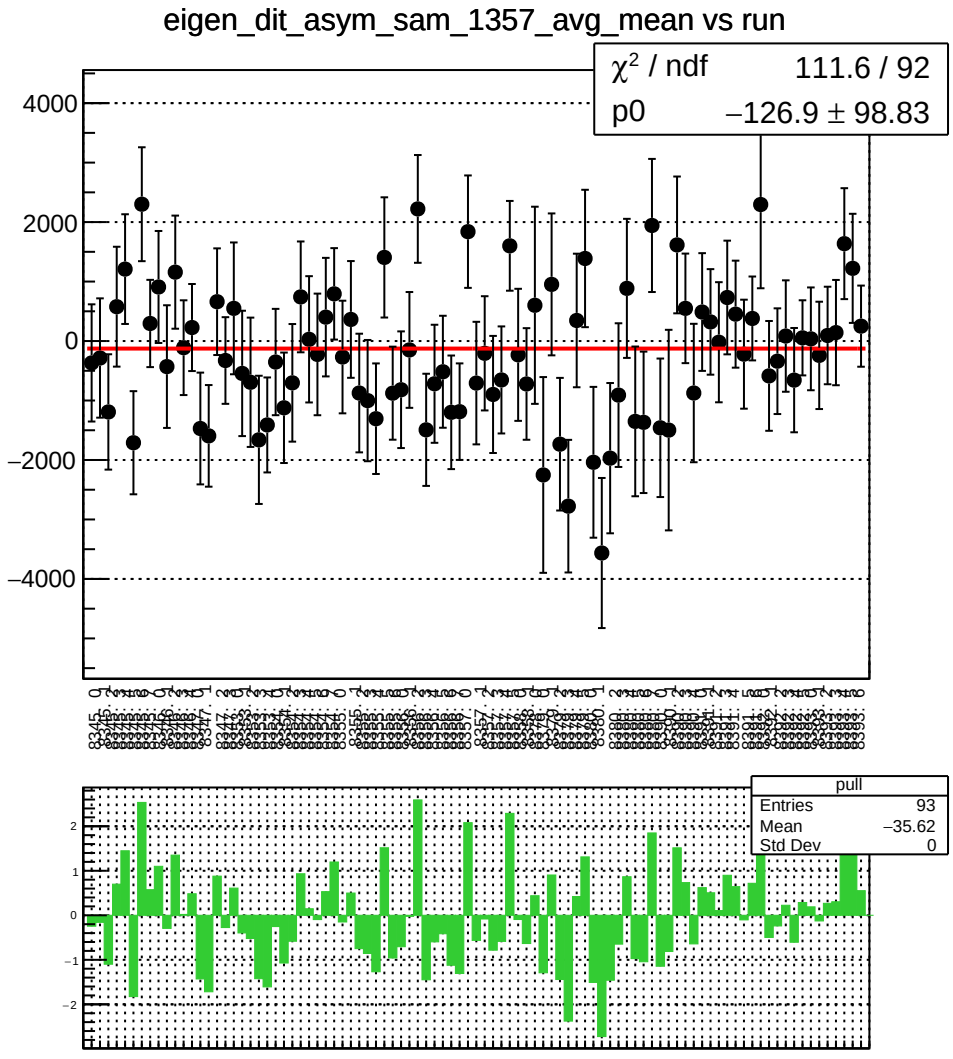

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 111.6 / 92
p0 −126.9 ± 98.83
4000
2000
0
−2000
−4000
pull
Entries 93
Mean −35.63
Std Dev 0
2
1
0
−1
−2

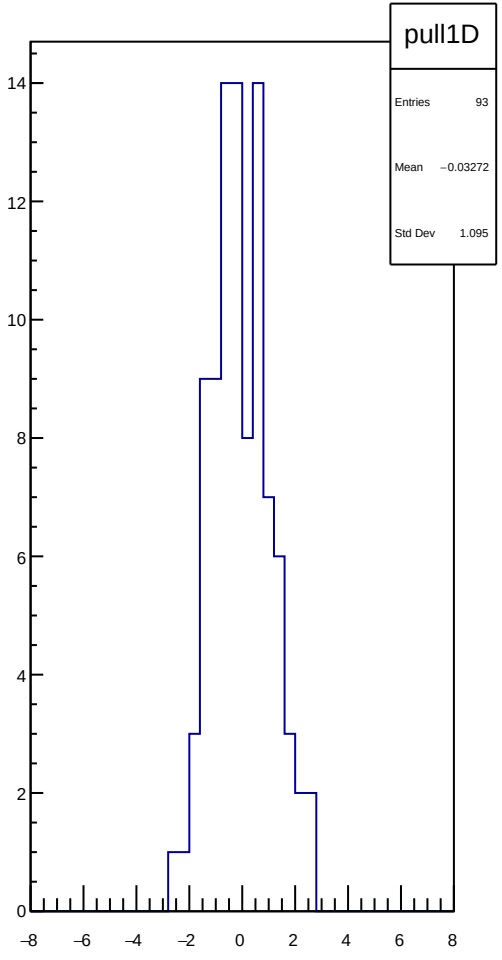

pull1D
Entries 93
Mean −0.03272
Std Dev 1.095
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

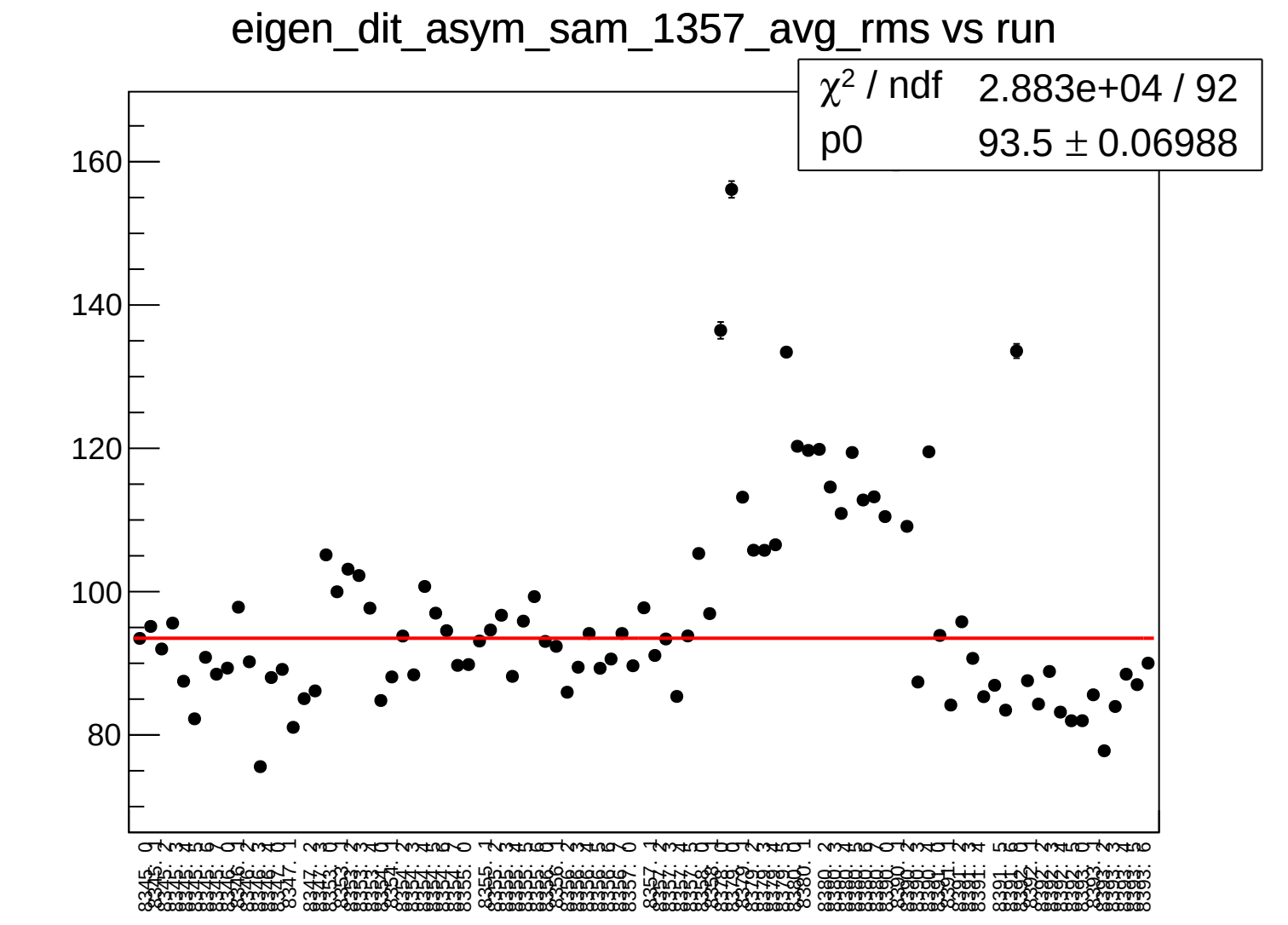

dit_asym_sam_1357_avg_rms vs run
χ² / ndf 2.882e+04 / 92
p0 93.5 ± 0.06988
160
140
120
100
80

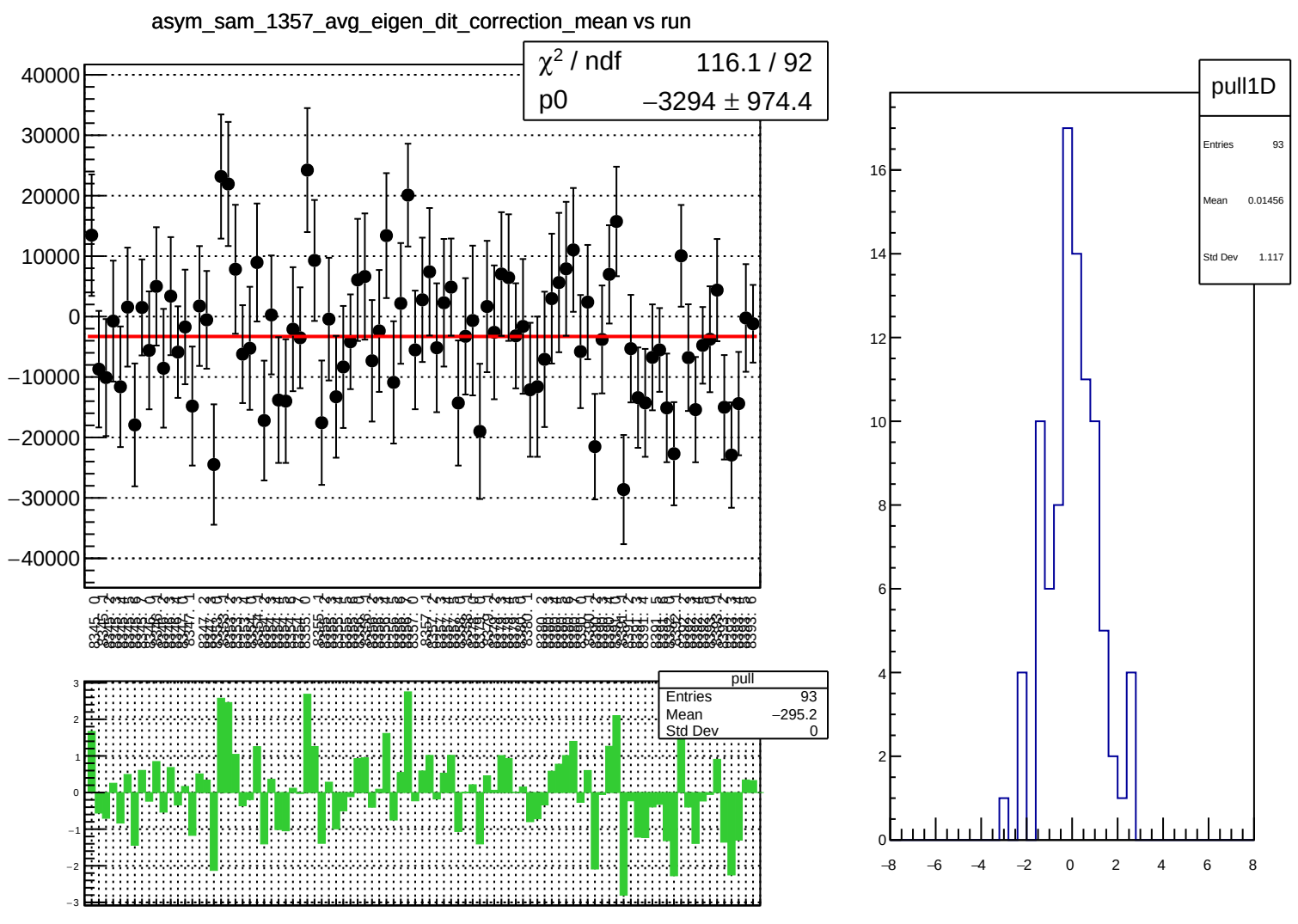

asym_sam_1357_avg_dit_correction_mean vs run
χ² / ndf 116.1 / 92
p0 −3294 ± 974.4
pull
Entries 93
Mean −295.2
Std Dev 0
pull1D
Entries 93
Mean 0.01456
Std Dev 1.117

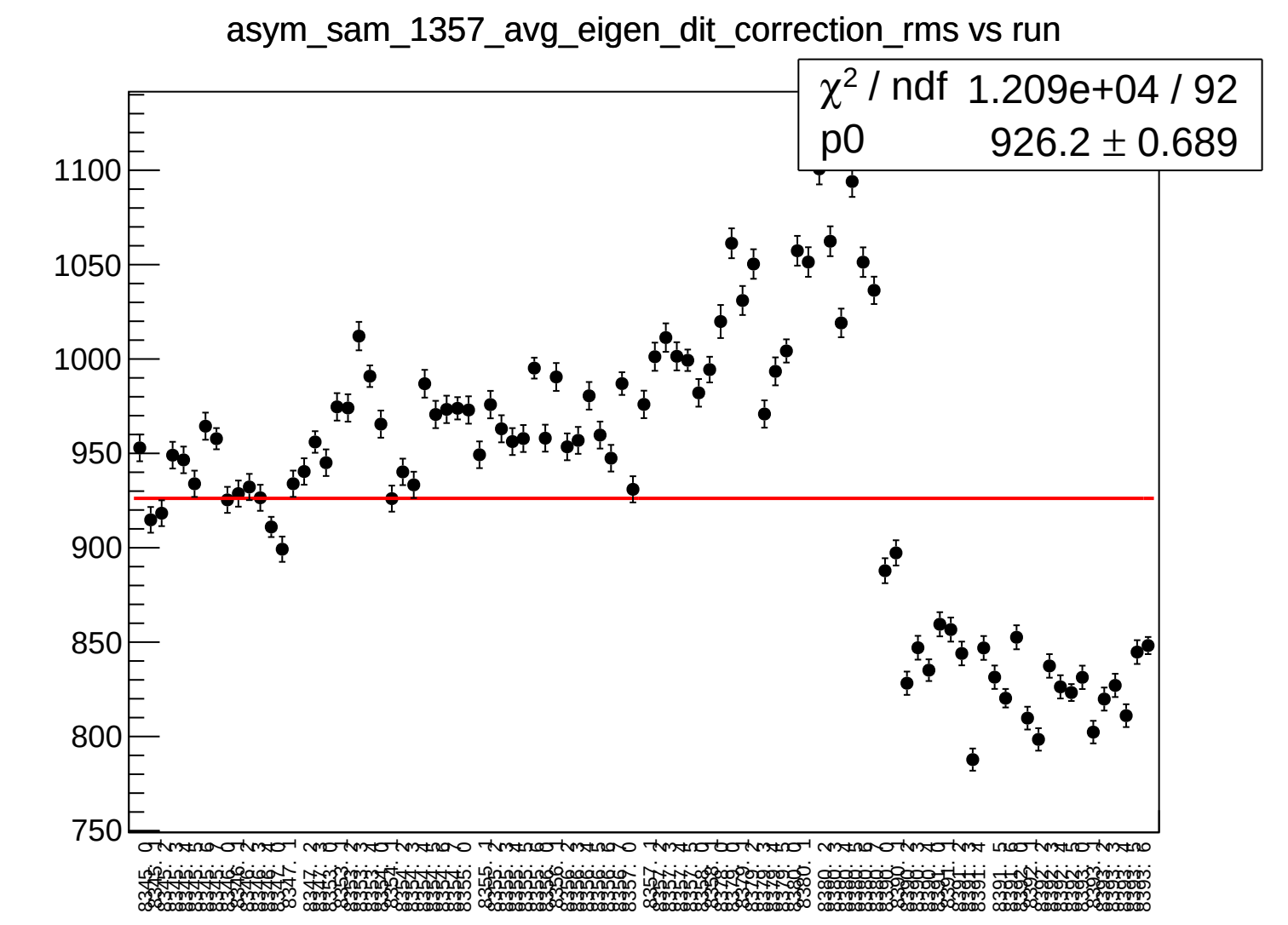

asym_sam_1357_avg_dit_correction_rms vs run
χ² / ndf 1.209e+04 / 92
p0 926.2 ± 0.689
1100
1050
1000
950
900
850
800
750

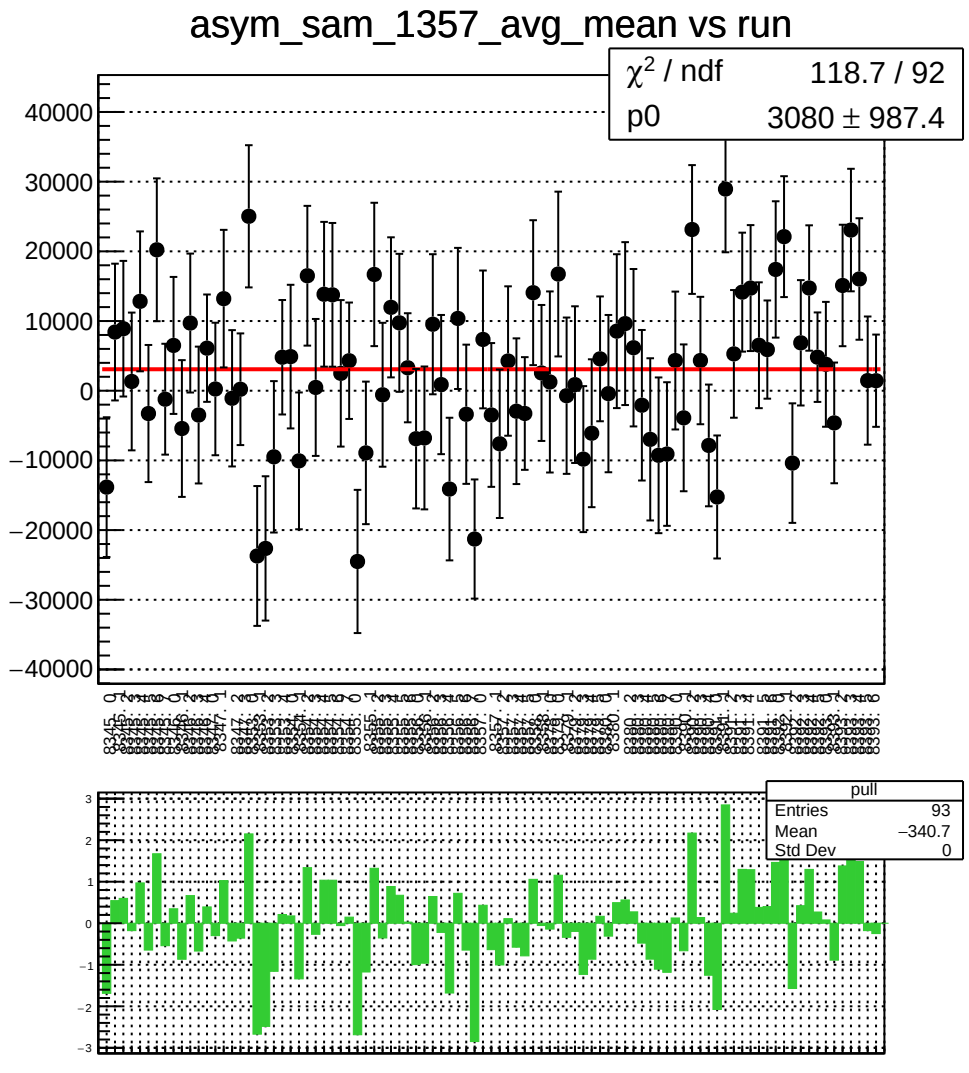

eigen_dit_asym_sam_1357_avg_mean vs run
χ² / ndf 111.6 / 92
p0 −126.9 ± 98.83
4000
2000
0
−2000
−4000
pull
Entries 93
Mean −35.62
Std Dev 0
2
1
0
−1
−2

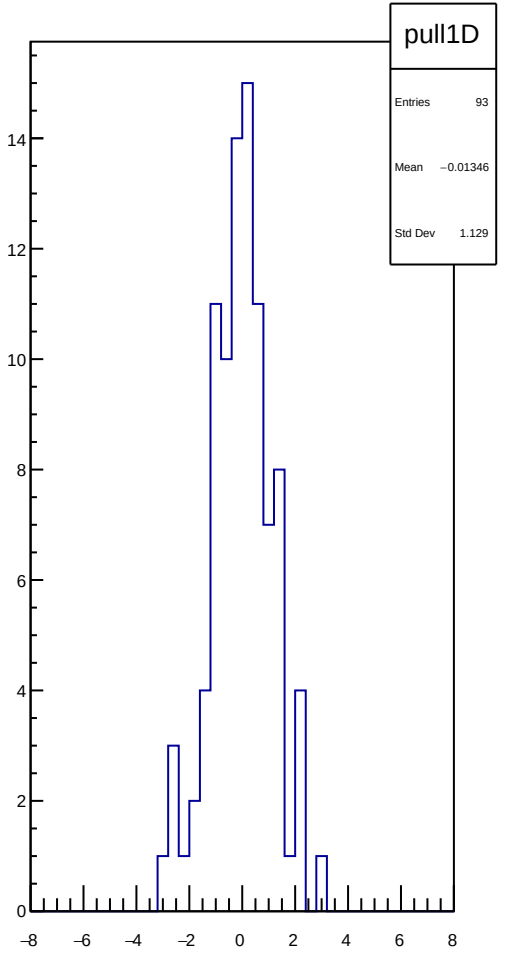

pull1D
Entries 93
Mean −0.03272
Std Dev 1.095
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

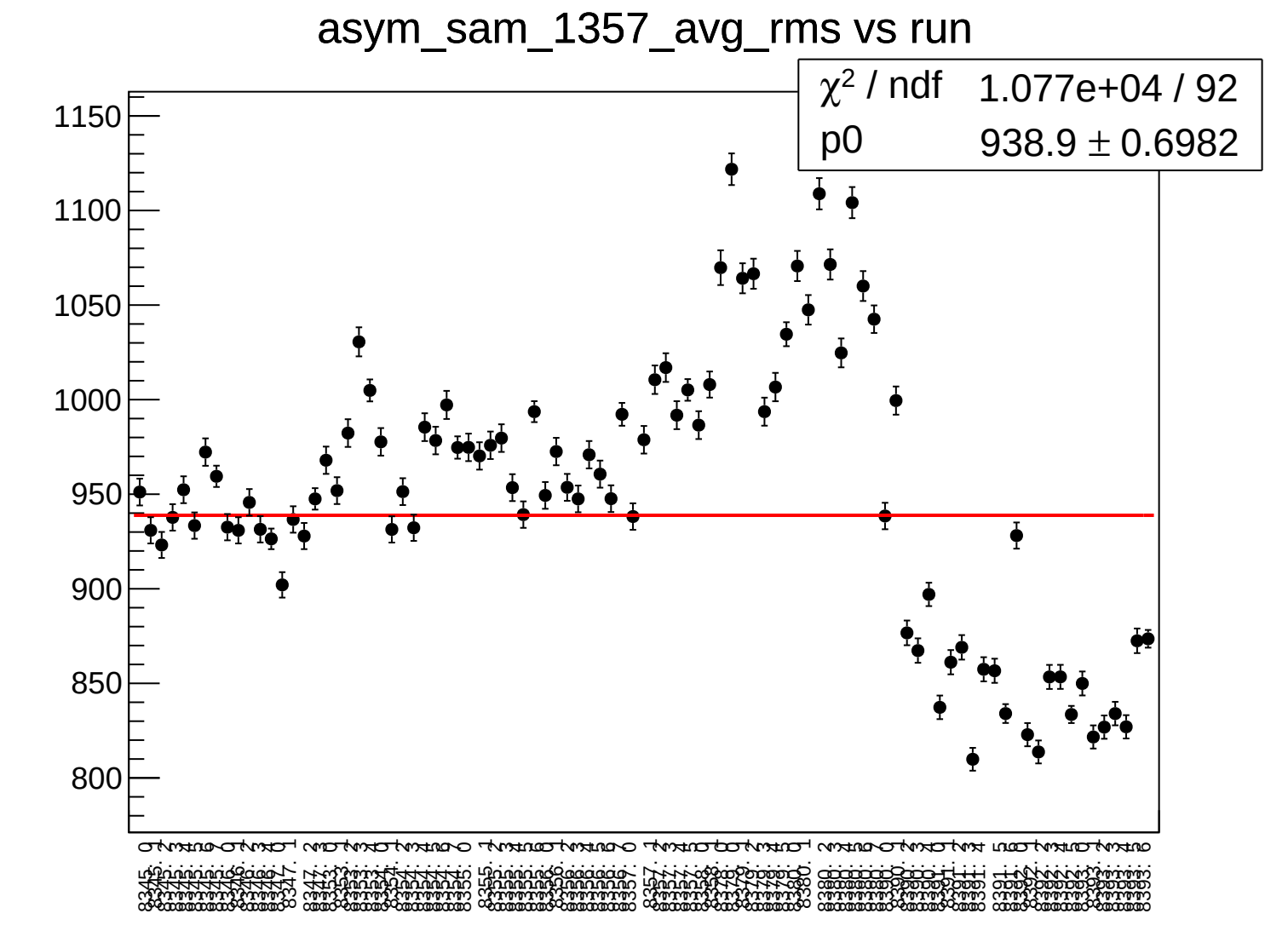

eigen_dit_asym_sam_1357_avg_rms vs run
χ² / ndf 2.883e+04 / 92
p0 93.5 ± 0.06988
160
140
120
100
80

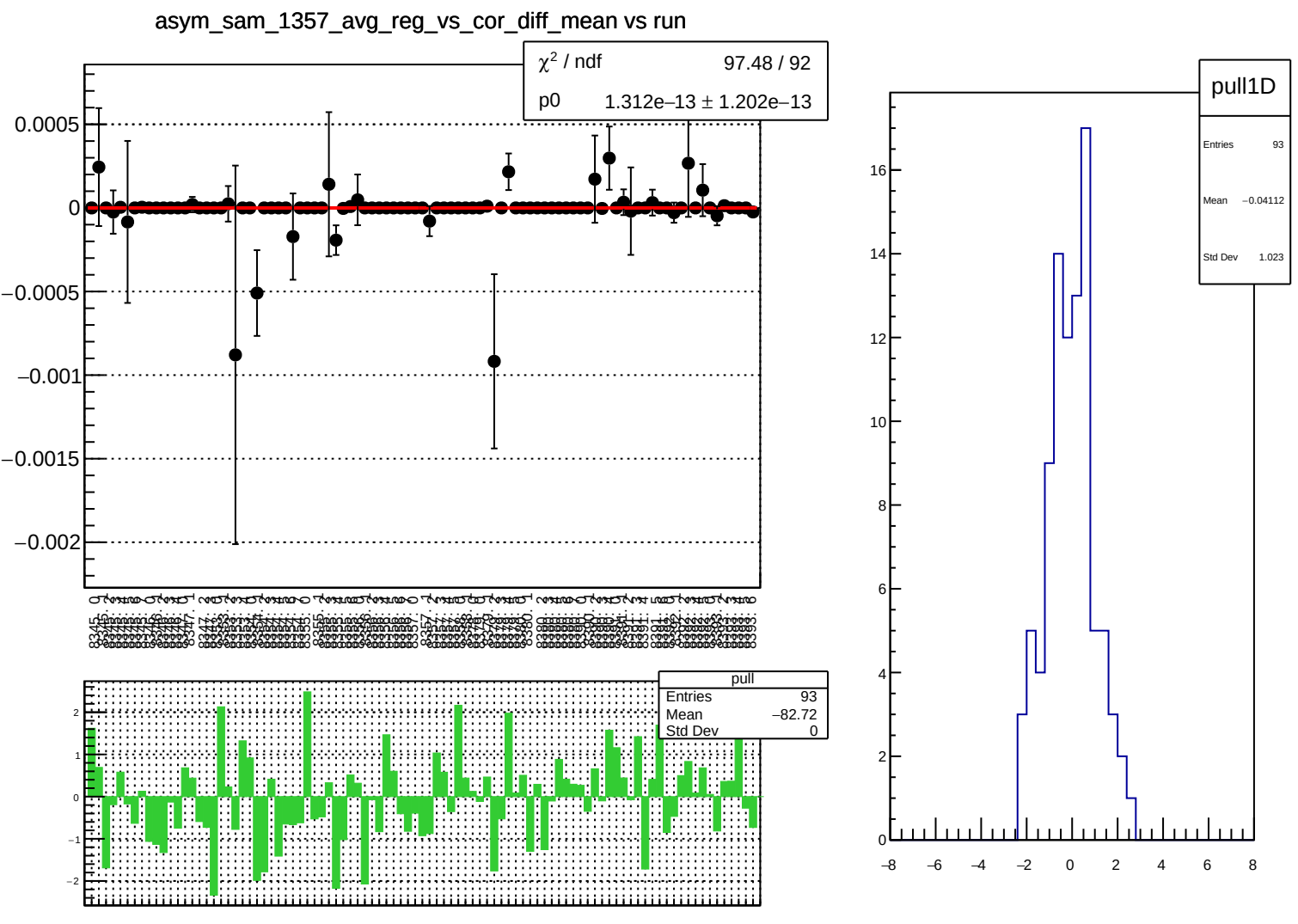

asym_sam_1357_avg_eigen_dit_correction_mean vs run
χ² / ndf 116.1 / 92
p0 −3294 ± 974.4
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean −295.2
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.01456
Std Dev 1.117
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

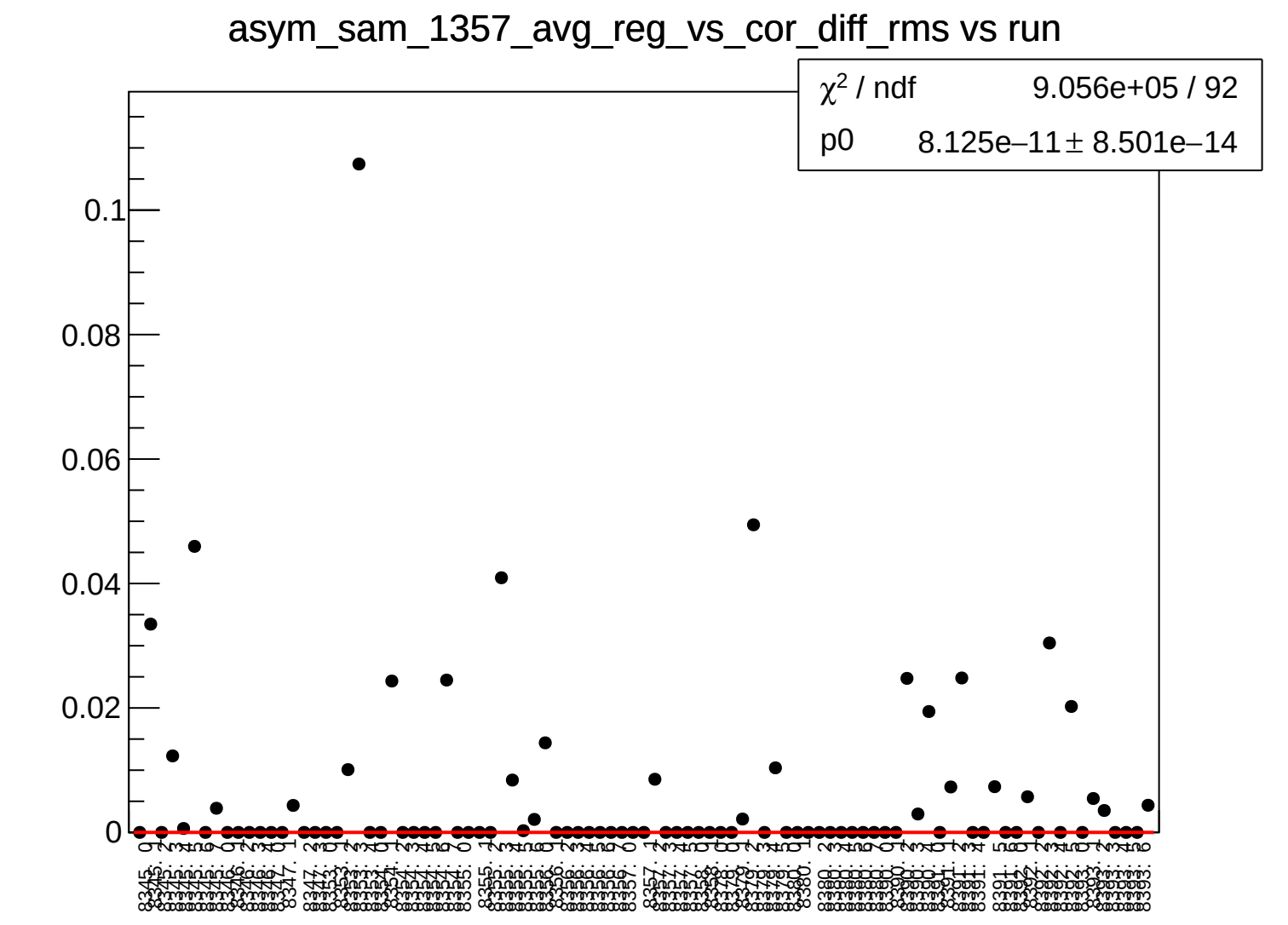

asym_sam_1357_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.209e+04 / 92
p0 926.2 ± 0.689
1100
1050
1000
950
900
850
800
750

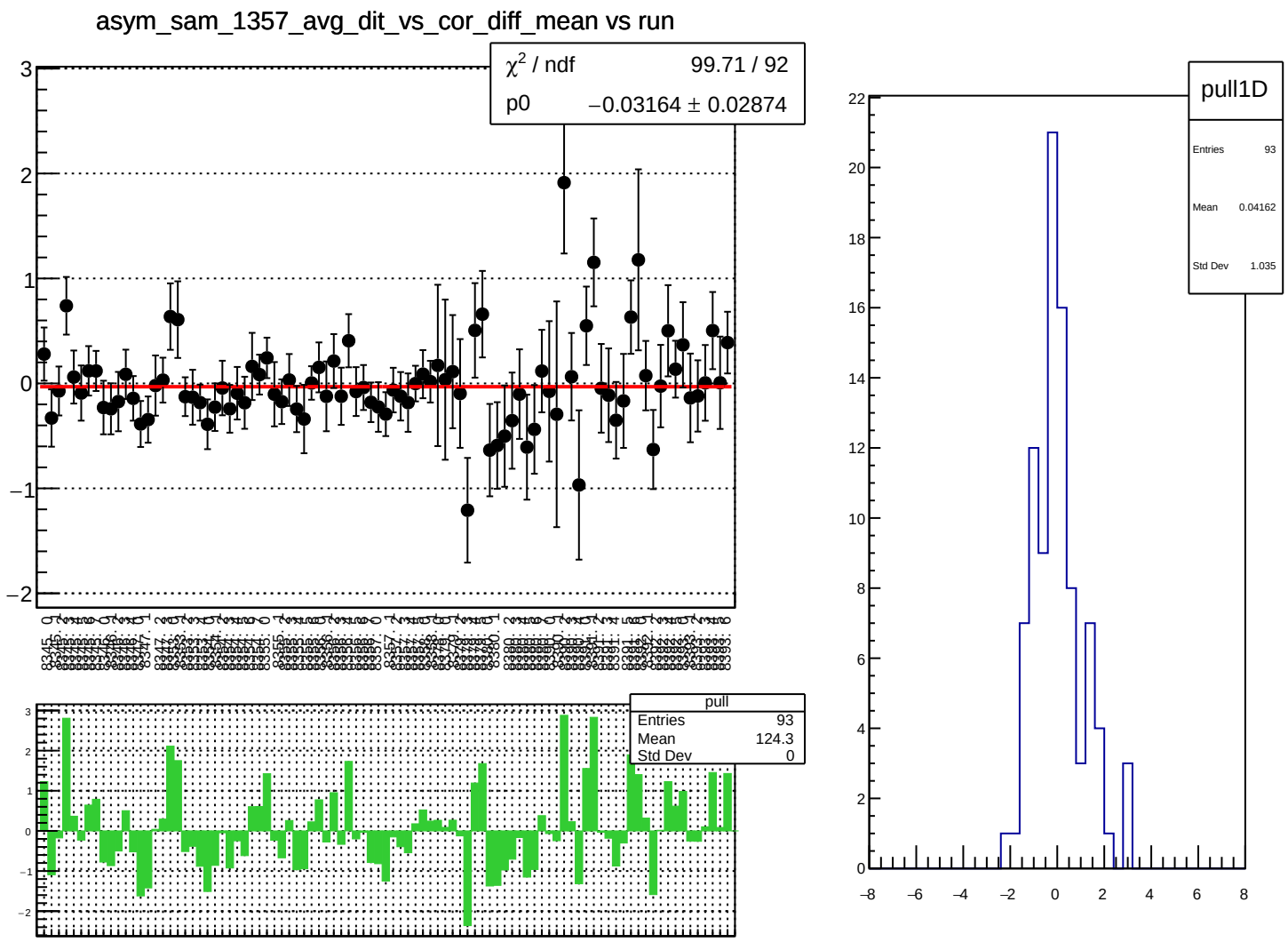

asym_sam_1357_avg_mean vs run
χ² / ndf 118.7 / 92
p0 3080 ± 987.4
pull
Entries 93
Mean −340.7
Std Dev 0

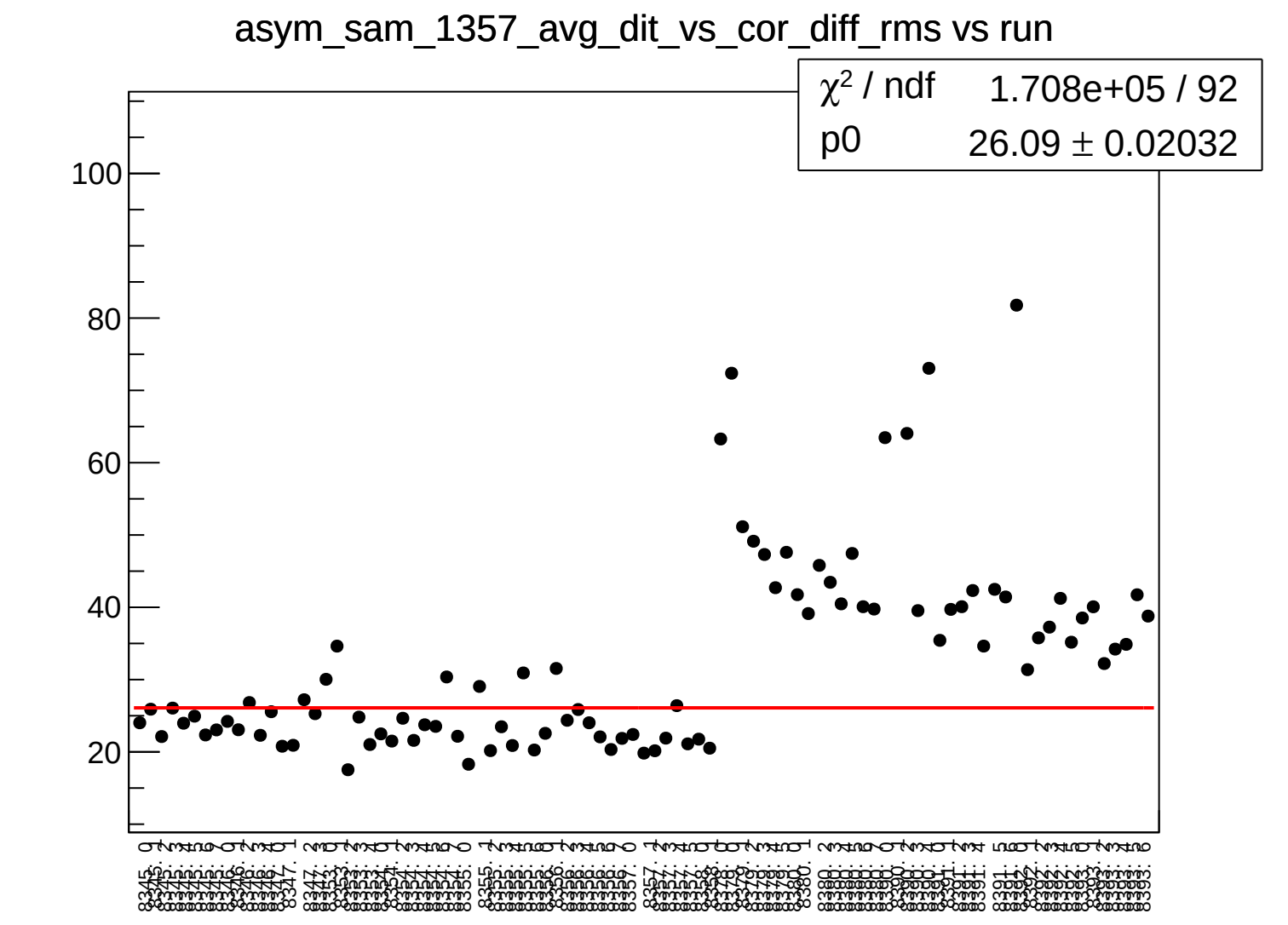

pull1D
Entries 93
Mean −0.01346
Std Dev 1.129

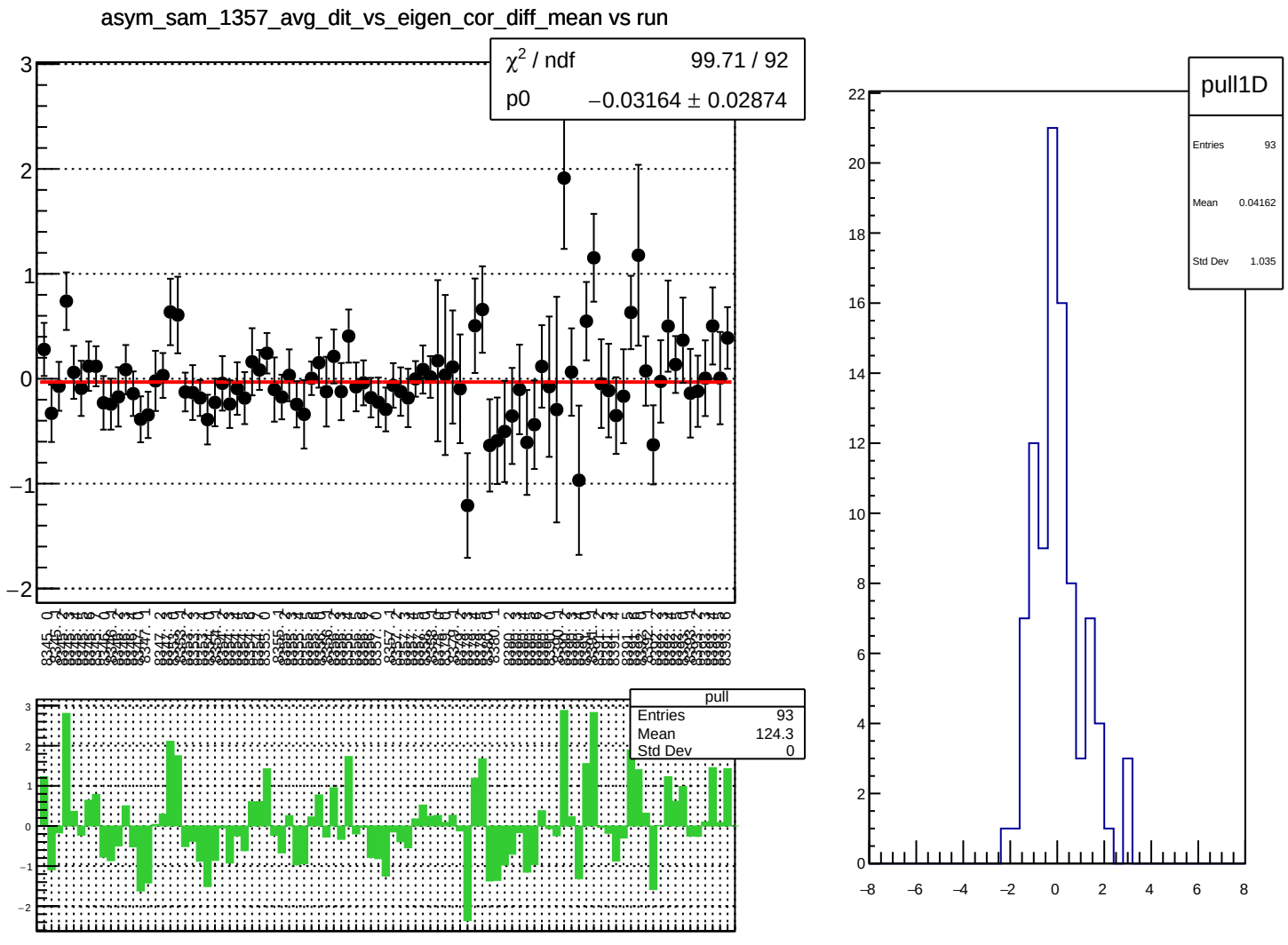

asym_sam_1357_avg_rms vs run
χ² / ndf 1.077e+04 / 92
p0 938.9 ± 0.6982
1150
1100
1050
1000
950
900
850
800

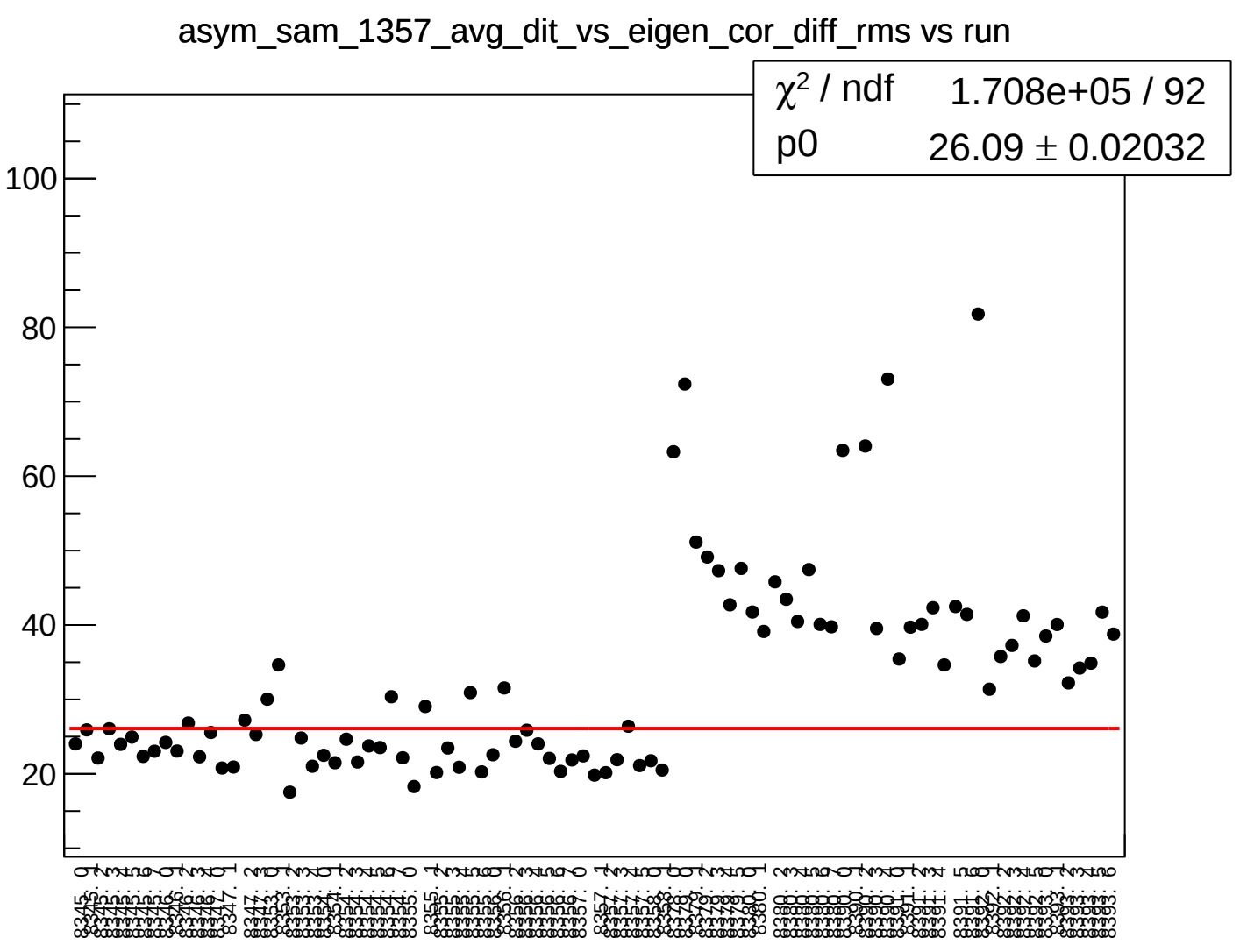

asym_sam_1357_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 97.48 / 92
p0 1.312e−13 ± 1.202e−13
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 93
Mean −82.72
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.04112
Std Dev 1.023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

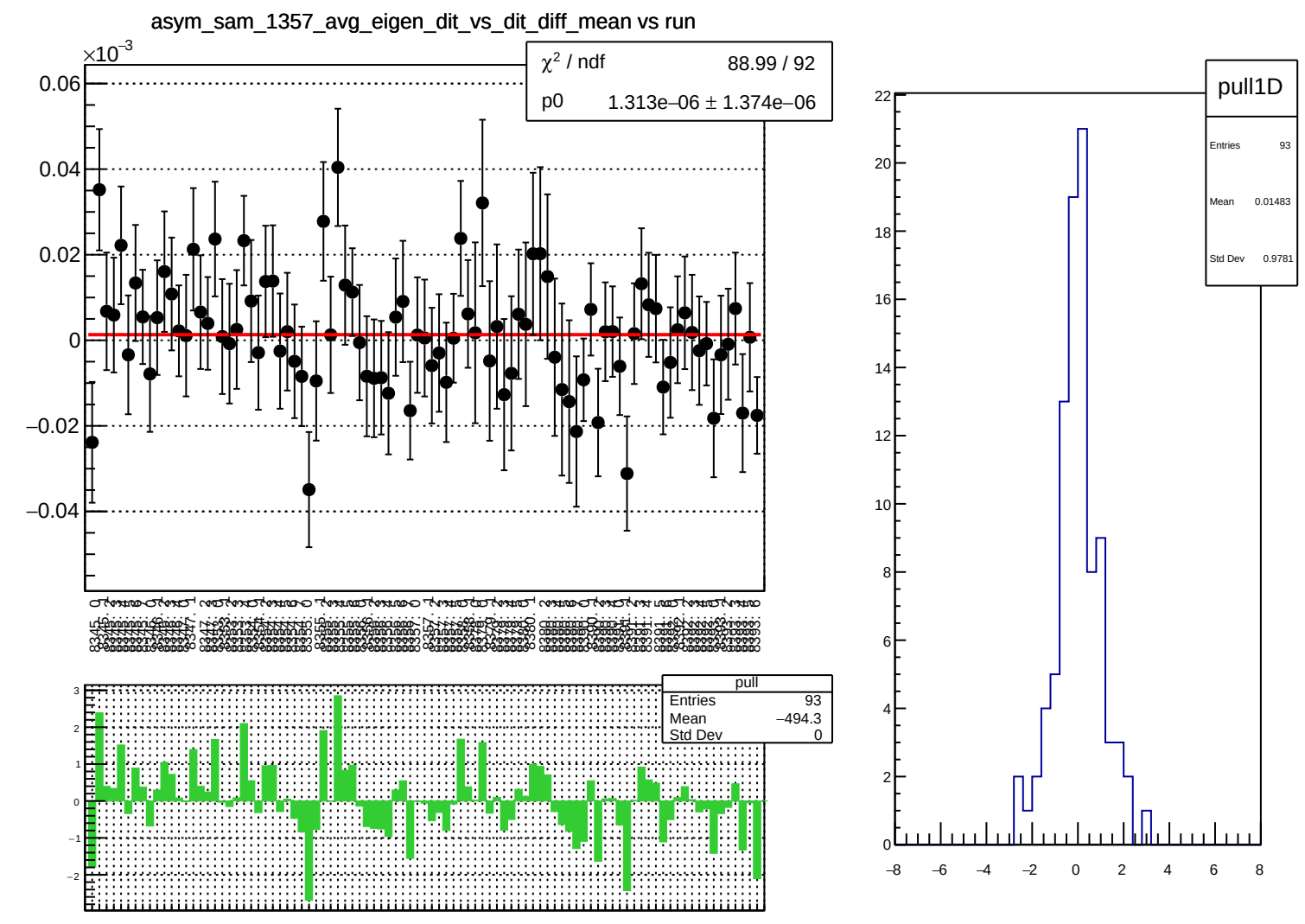

asym_sam_1357_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.056e+05 / 92
p0 8.125e−11 ± 8.501e−14
0.1
0.08
0.06
0.04
0.02
0

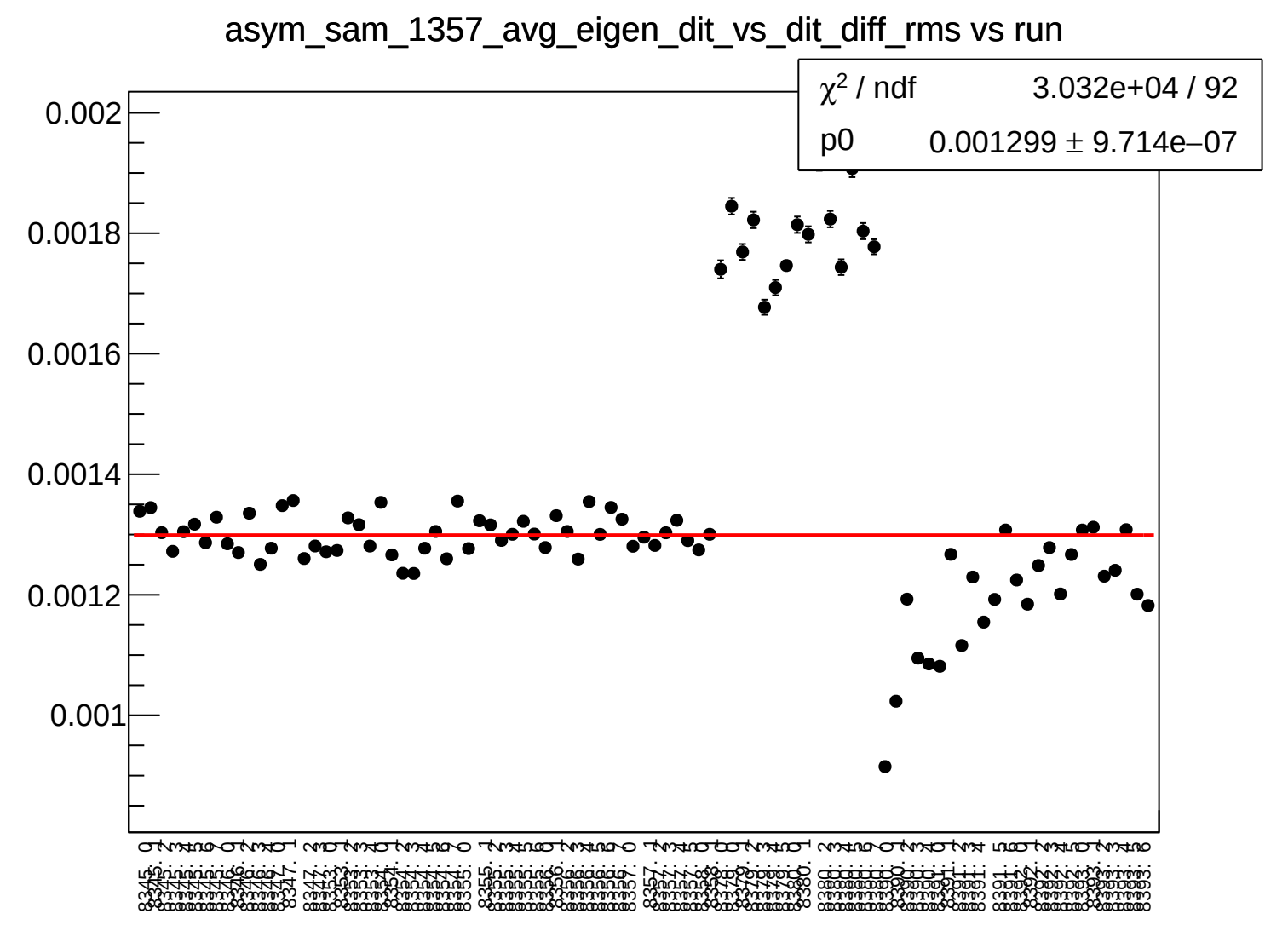

asym_sam_1357_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 99.71 / 92
p0 −0.03164 ± 0.02874
pull
Entries 93
Mean 124.3
Std Dev 0
pull1D
Entries 93
Mean 0.04162
Std Dev 1.035

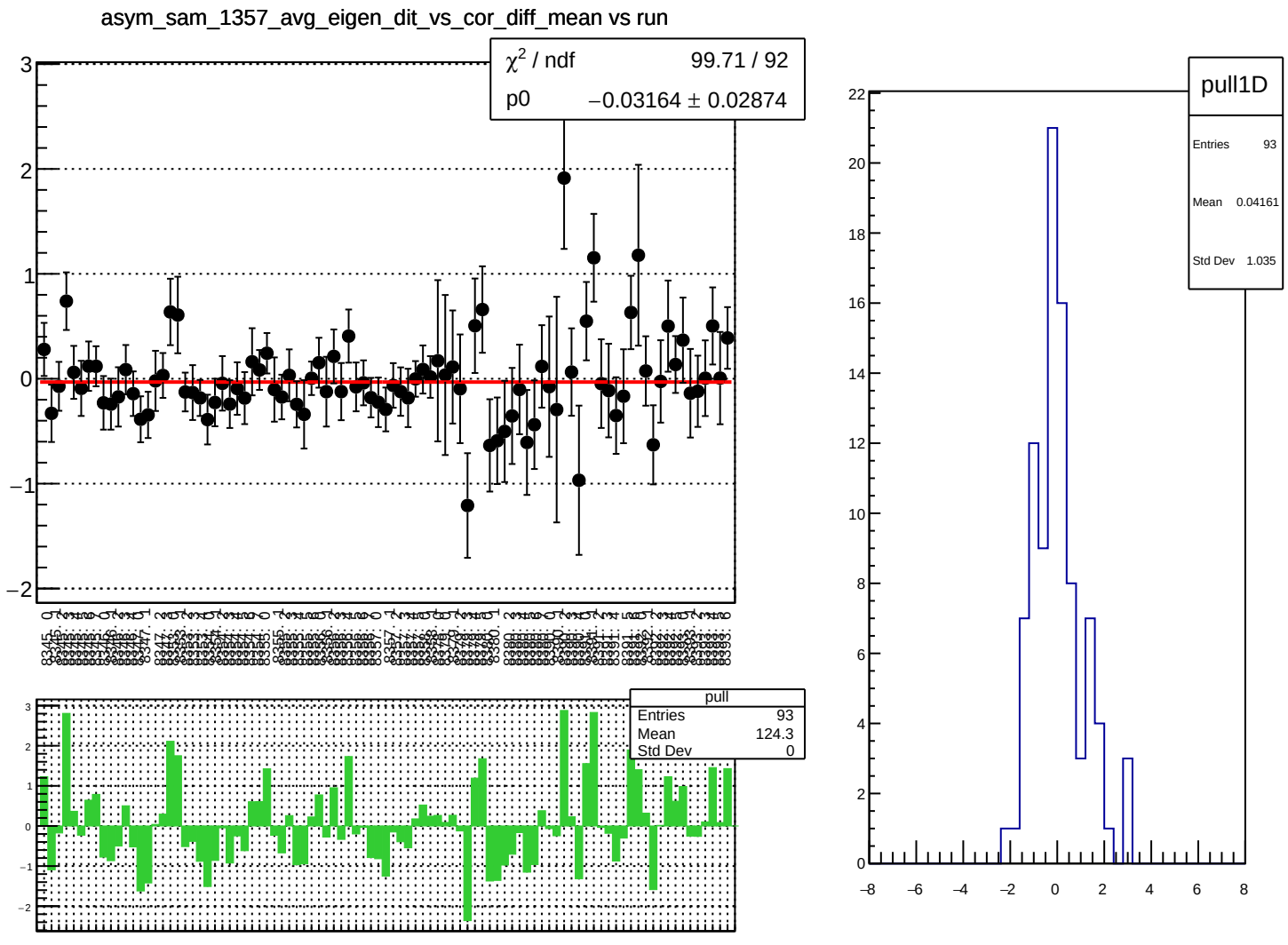

asym_sam_1357_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.708e+05 / 92
p0 26.09 ± 0.02032
100
80
60
40
20

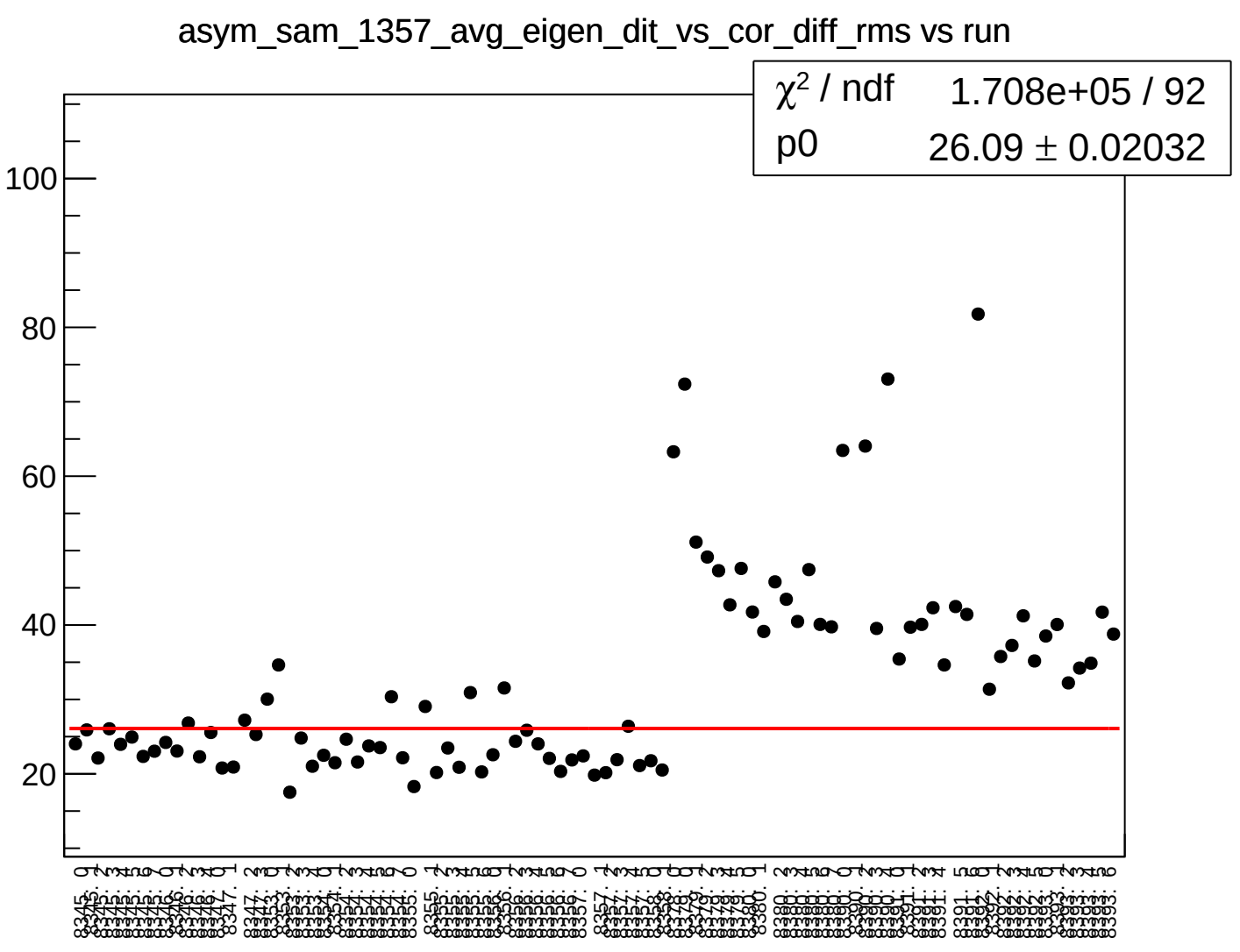

asym_sam_1357_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.71 / 92
p0 −0.03164 ± 0.02874
pull
Entries 93
Mean 124.3
Std Dev 0
pull1D
Entries 93
Mean 0.04162
Std Dev 1.035

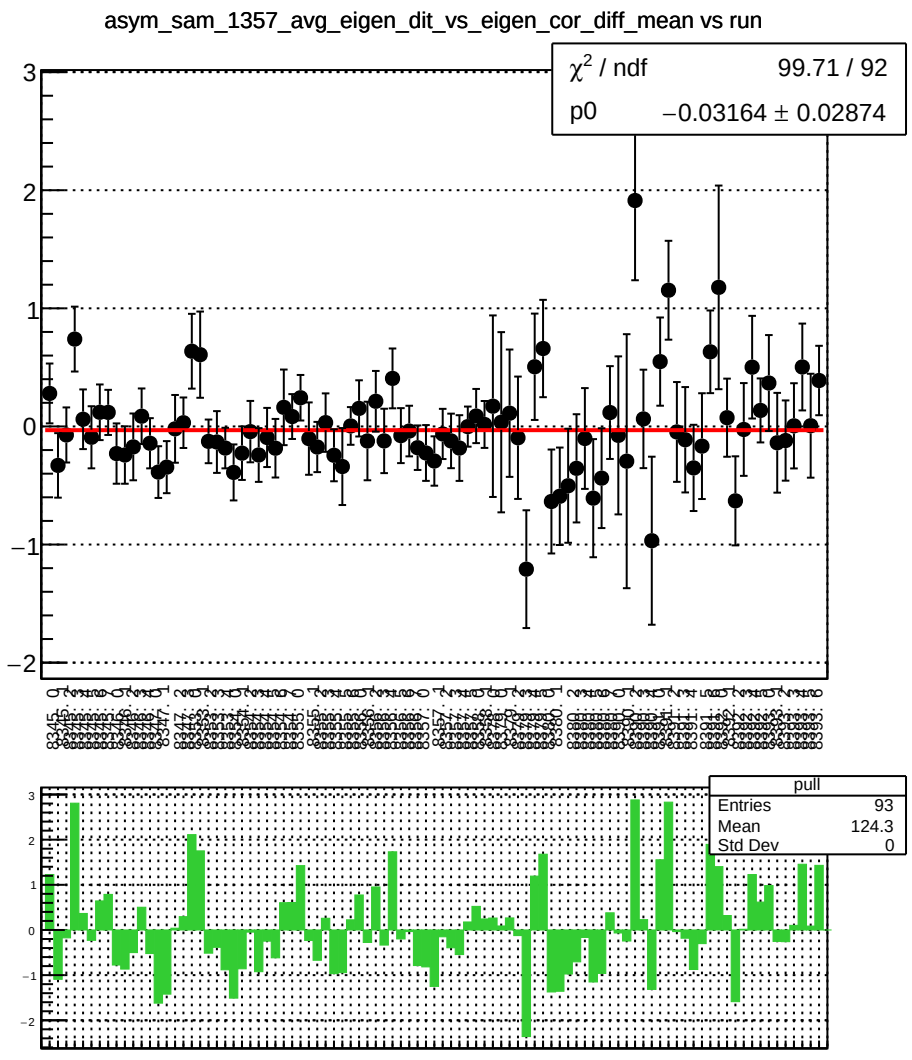

asym_sam_1357_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.708e+05 / 92
p0 26.09 ± 0.02032
100
80
60
40
20

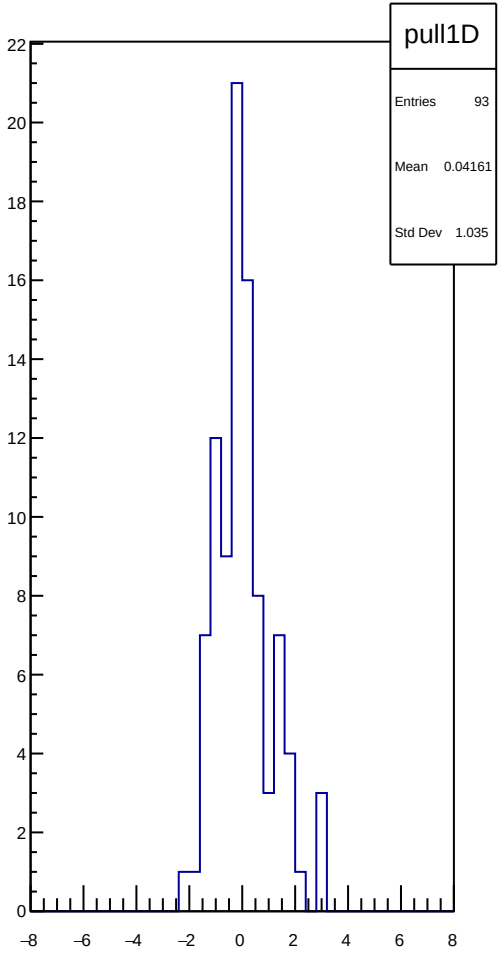

asym_sam_1357_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.99 / 92
p0 1.313e−06 ± 1.374e−06
0.06
0.04
0.02
0
−0.02
−0.04
pull
Entries 93
Mean −494.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.01483
Std Dev 0.9781
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

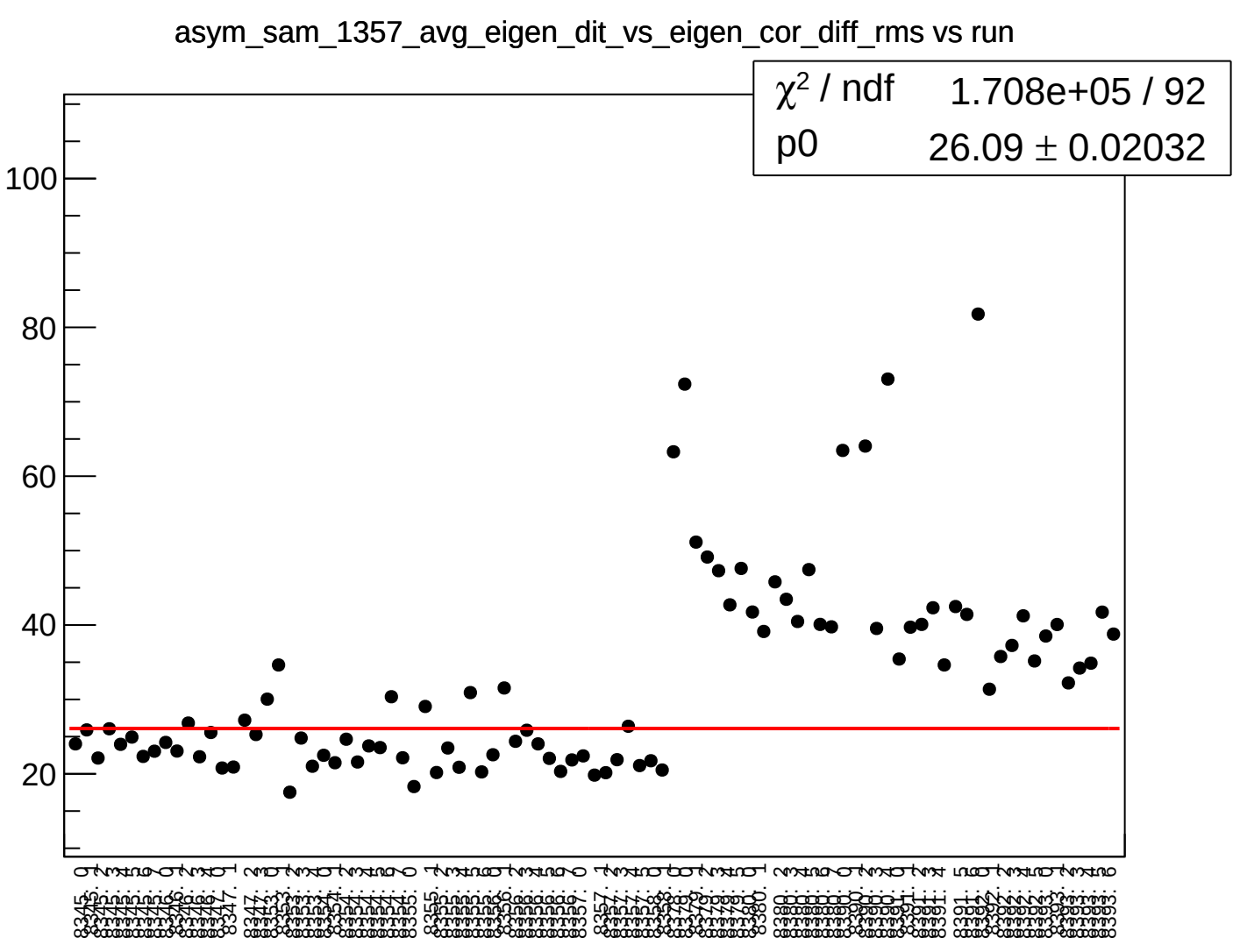

asym_sam_1357_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.032e+04 / 92
p0 0.001299 ± 9.714e−07
0.002
0.0018
0.0016
0.0014
0.0012
0.001

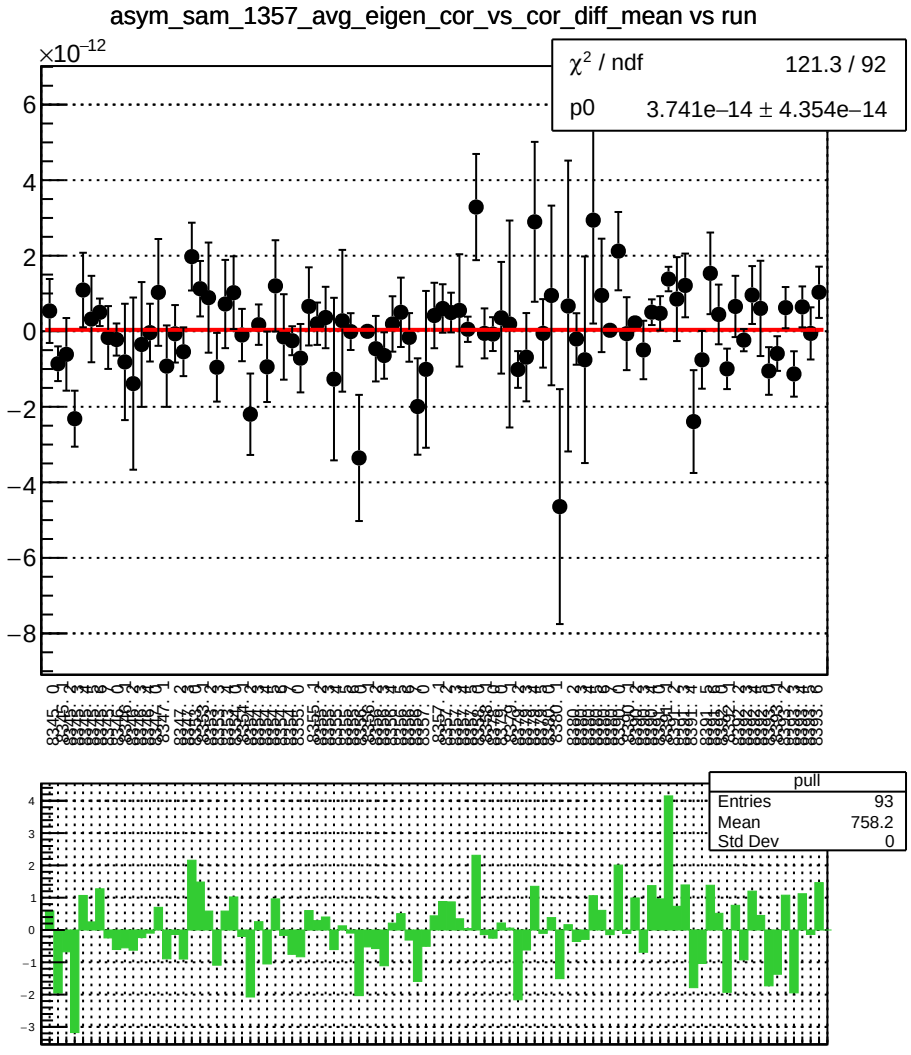

asym_sam_1357_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 99.71 / 92
p0 −0.03164 ± 0.02874
pull
Entries 93
Mean 124.3
Std Dev 0
pull1D
Entries 93
Mean 0.04161
Std Dev 1.035

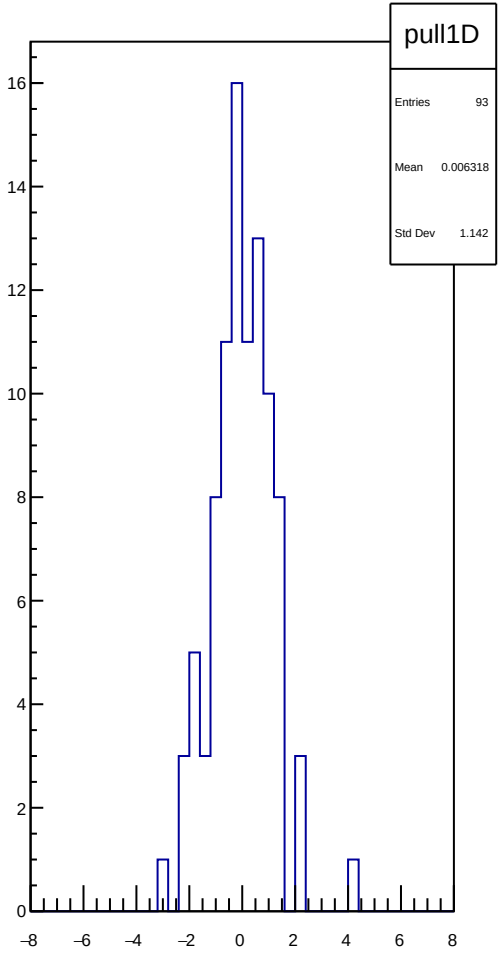

asym_sam_1357_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.708e+05 / 92
p0 26.09 ± 0.02032
100
80
60
40
20

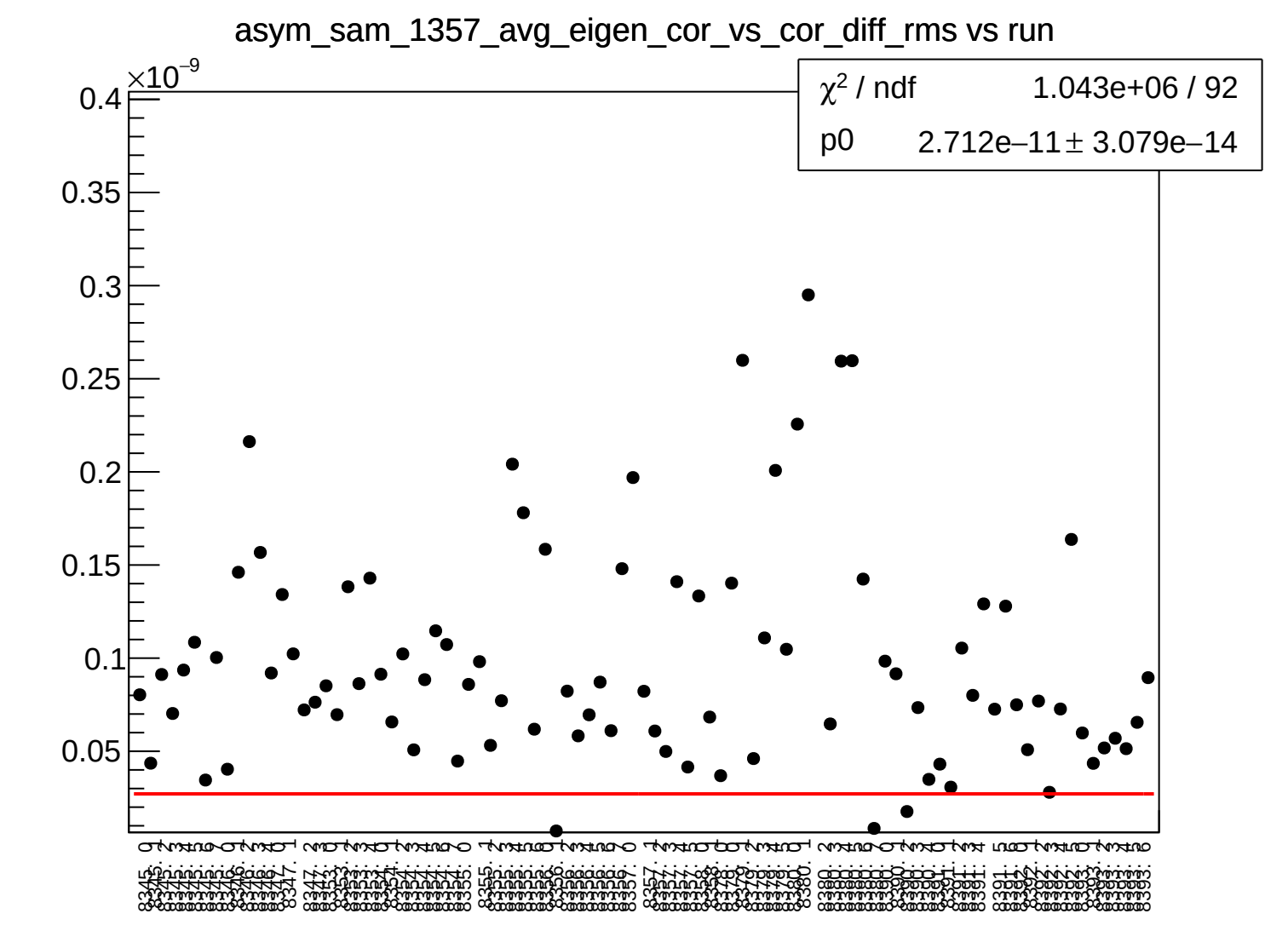

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.71 / 92
p0 −0.03164 ± 0.02874
pull
Entries 93
Mean 124.3
Std Dev 0

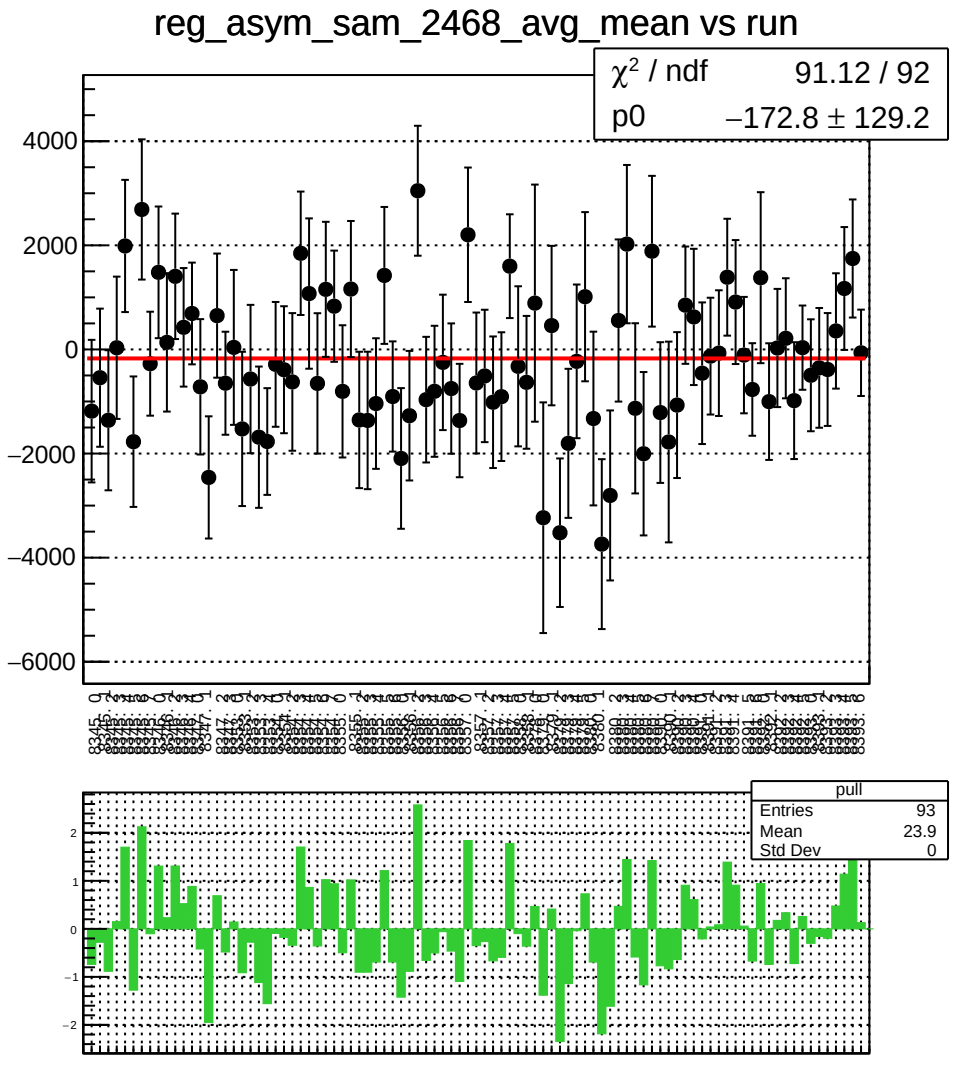

pull1D
Entries 93
Mean 0.04161
Std Dev 1.035

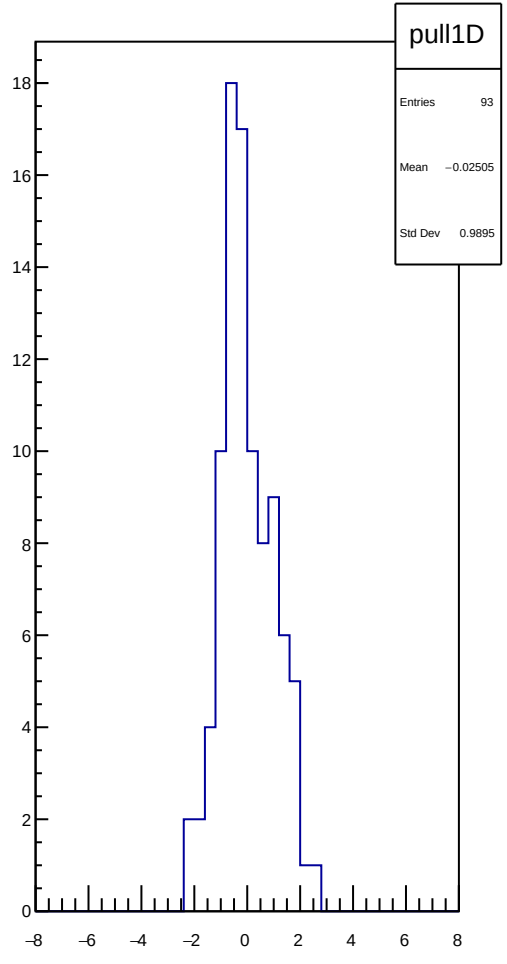

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.708e+05 / 92
p0 26.09 ± 0.02032
100
80
60
40
20

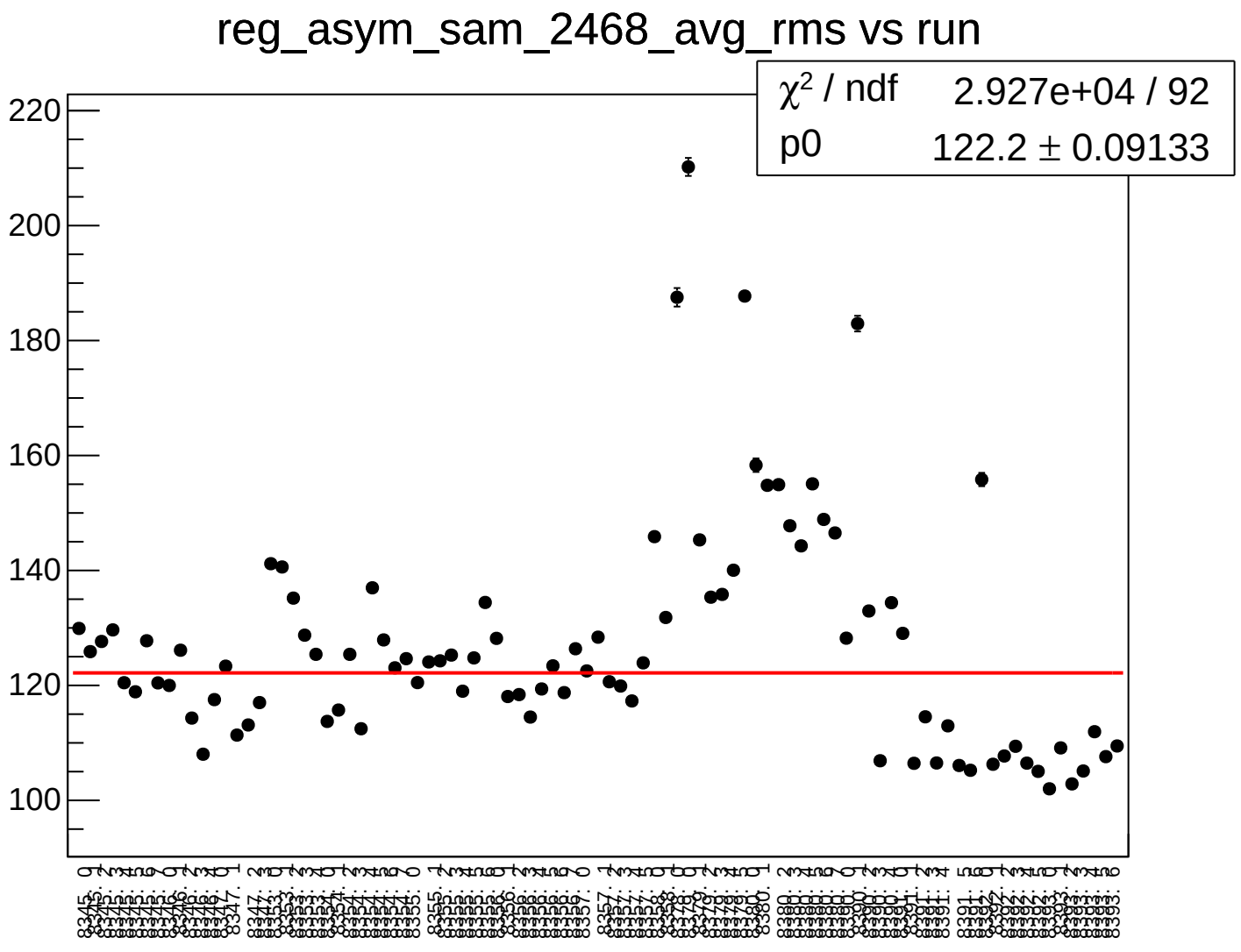

asym_sam_1357_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 121.3 / 92
p0 3.741e−14 ± 4.354e−14
pull
Entries 93
Mean 758.2
Std Dev 0

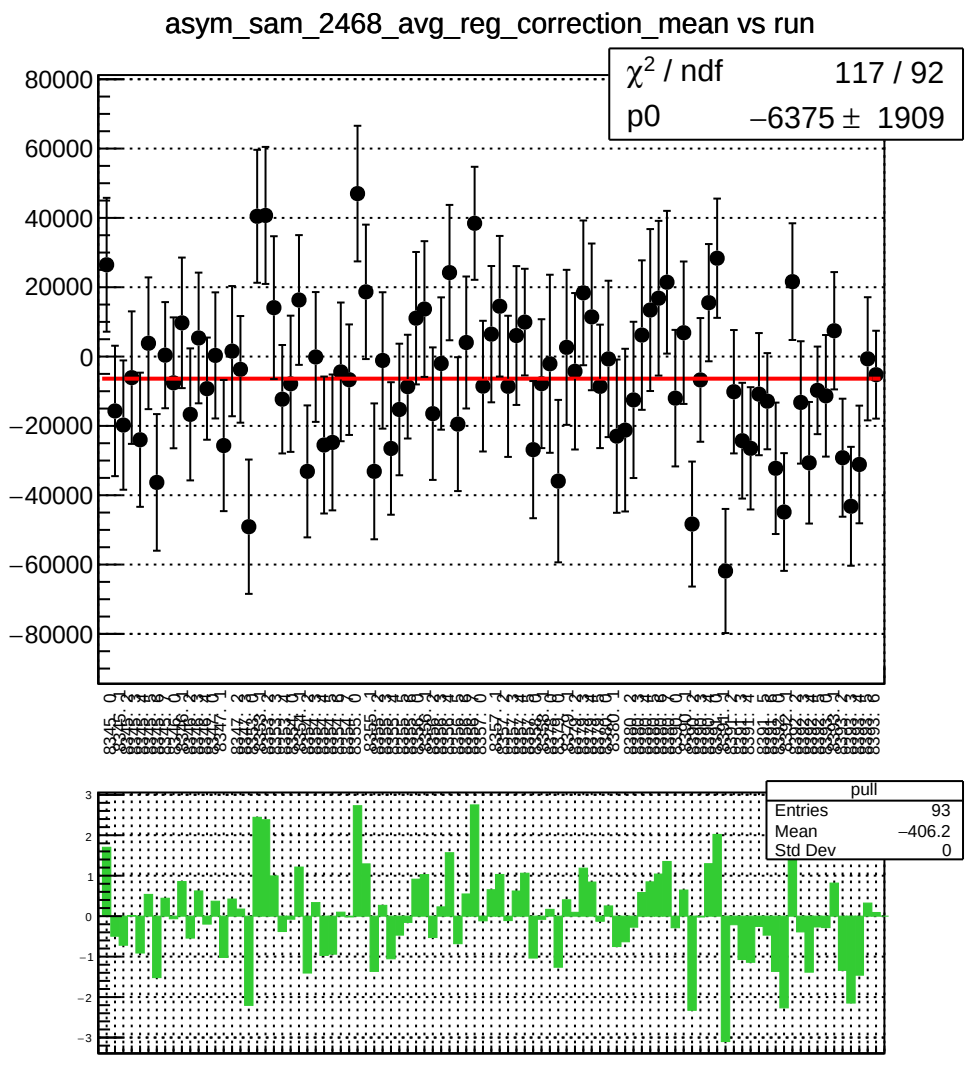

pull1D
Entries 93
Mean 0.006318
Std Dev 1.142

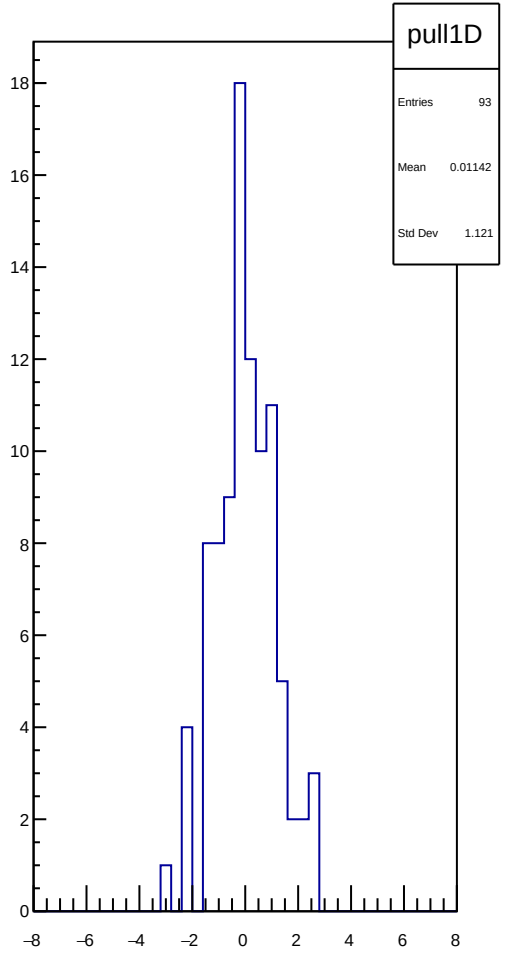

asym_sam_1357_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
χ² / ndf 1.043e+06 / 92
p0 2.712e−11 ± 3.079e−14

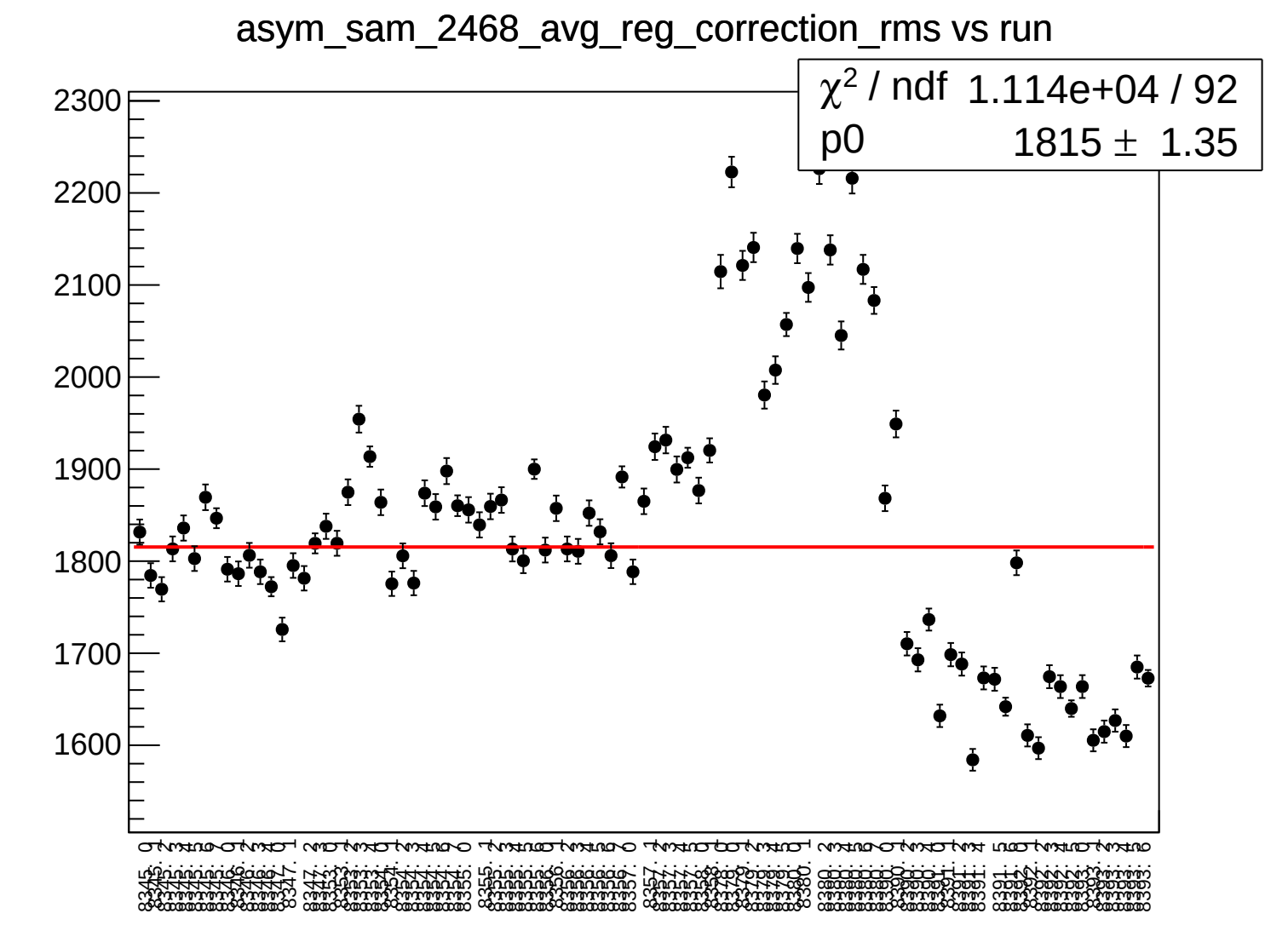

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 91.12 / 92
p0 −172.8 ± 129.2
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean 23.9
Std Dev 0
2
1
0
−1
−2

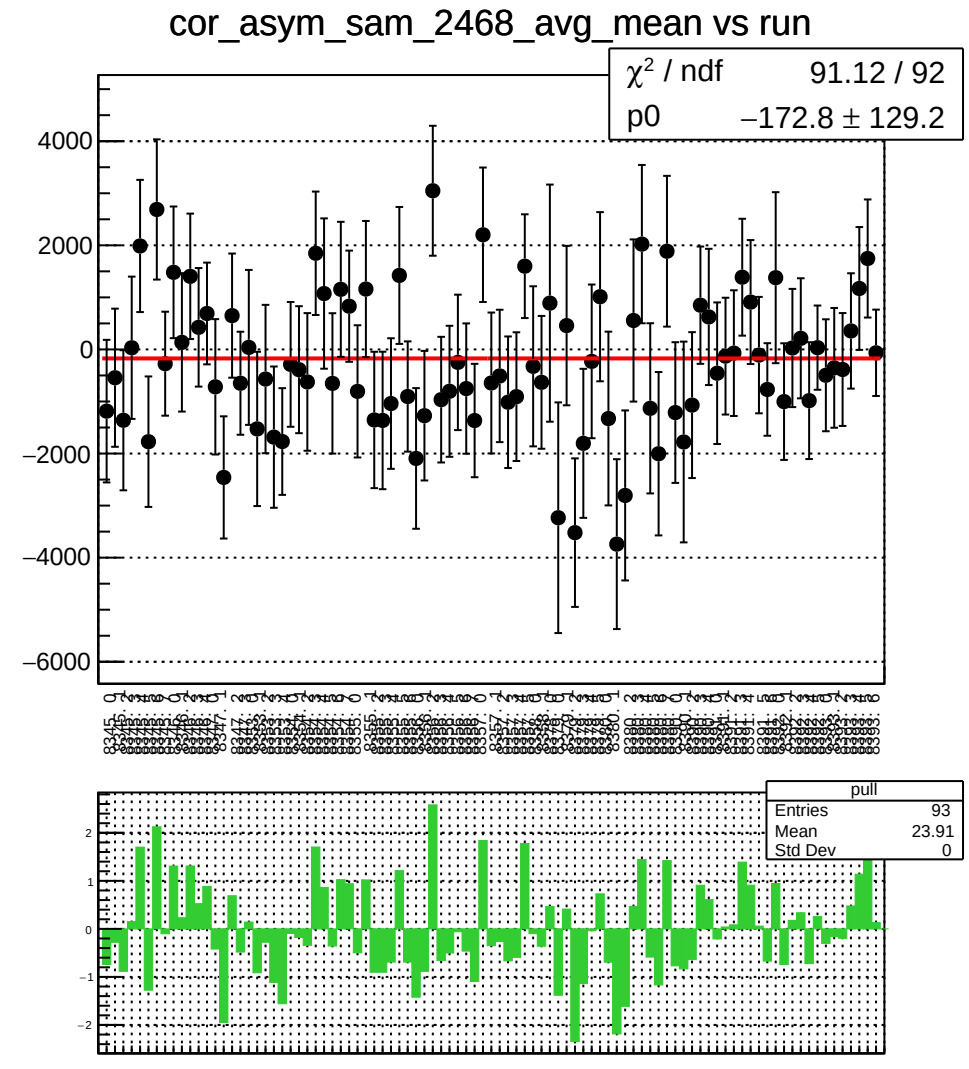

pull1D
Entries 93
Mean −0.02505
Std Dev 0.9895
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

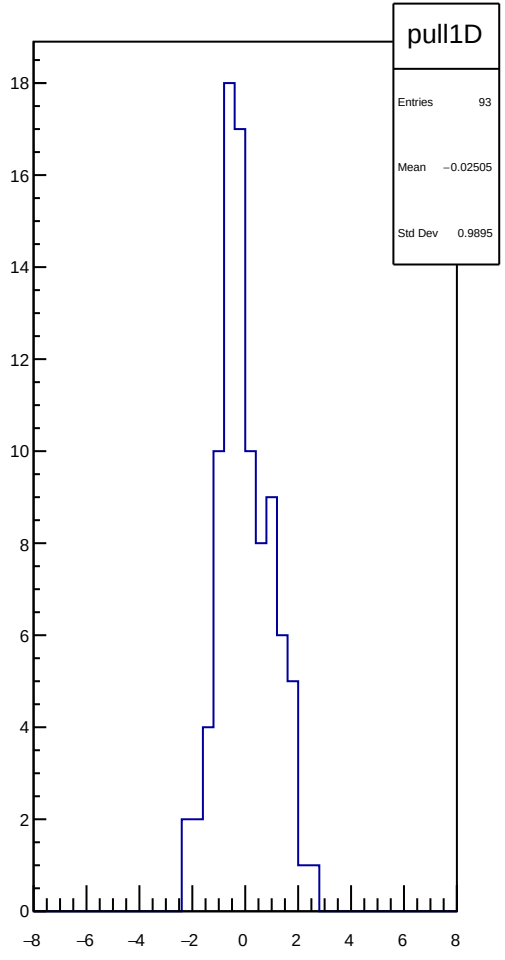

reg_asym_sam_2468_avg_rms vs run
χ² / ndf 2.927e+04 / 92
p0 122.2 ± 0.09133
220
200
180
160
140
120
100

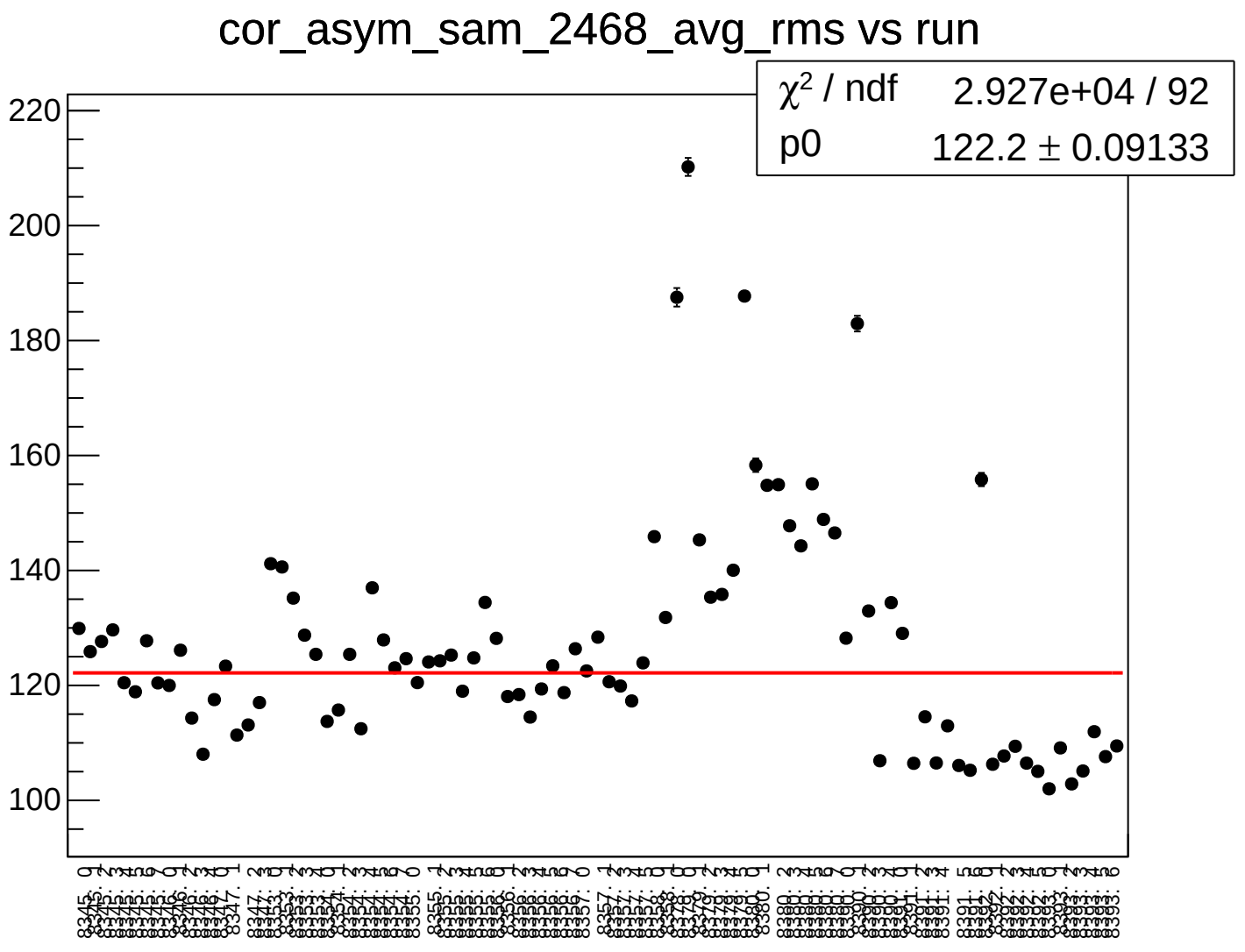

asym_sam_2468_avg_reg_correction_mean vs run
χ² / ndf 117 / 92
p0 −6375 ± 1909
pull
Entries 93
Mean −406.2
Std Dev 0

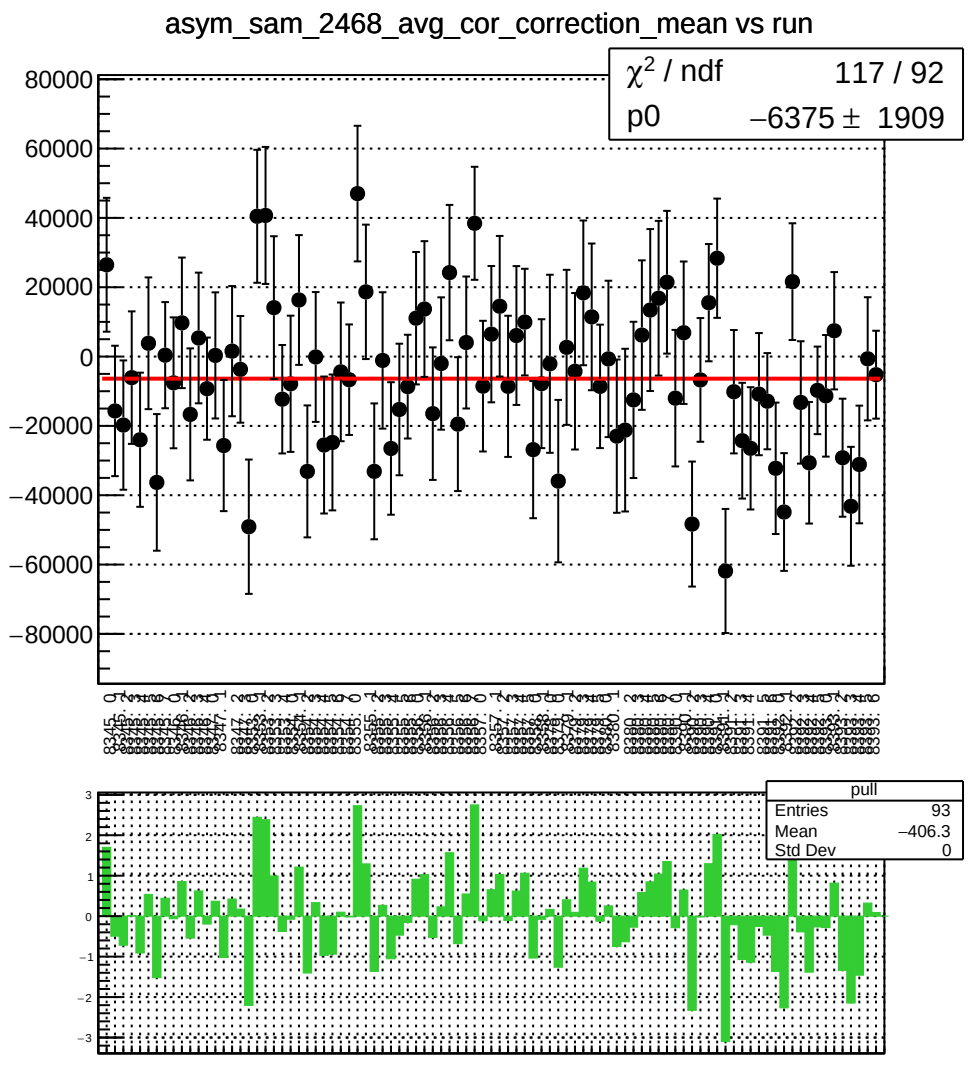

pull1D
Entries 93
Mean 0.01142
Std Dev 1.121

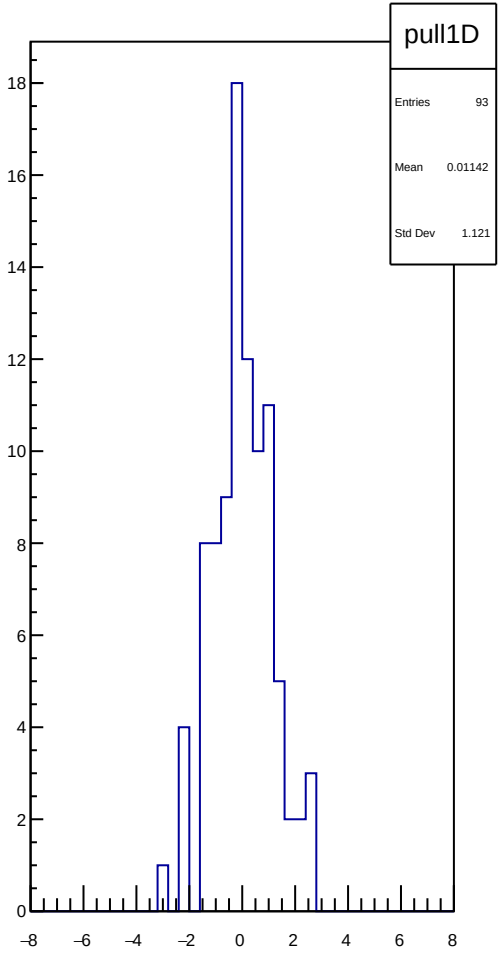

asym_sam_2468_avg_reg_correction_rms vs run
χ² / ndf 1.114e+04 / 92
p0 1815 ± 1.35
2300
2200
2100
2000
1900
1800
1700
1600

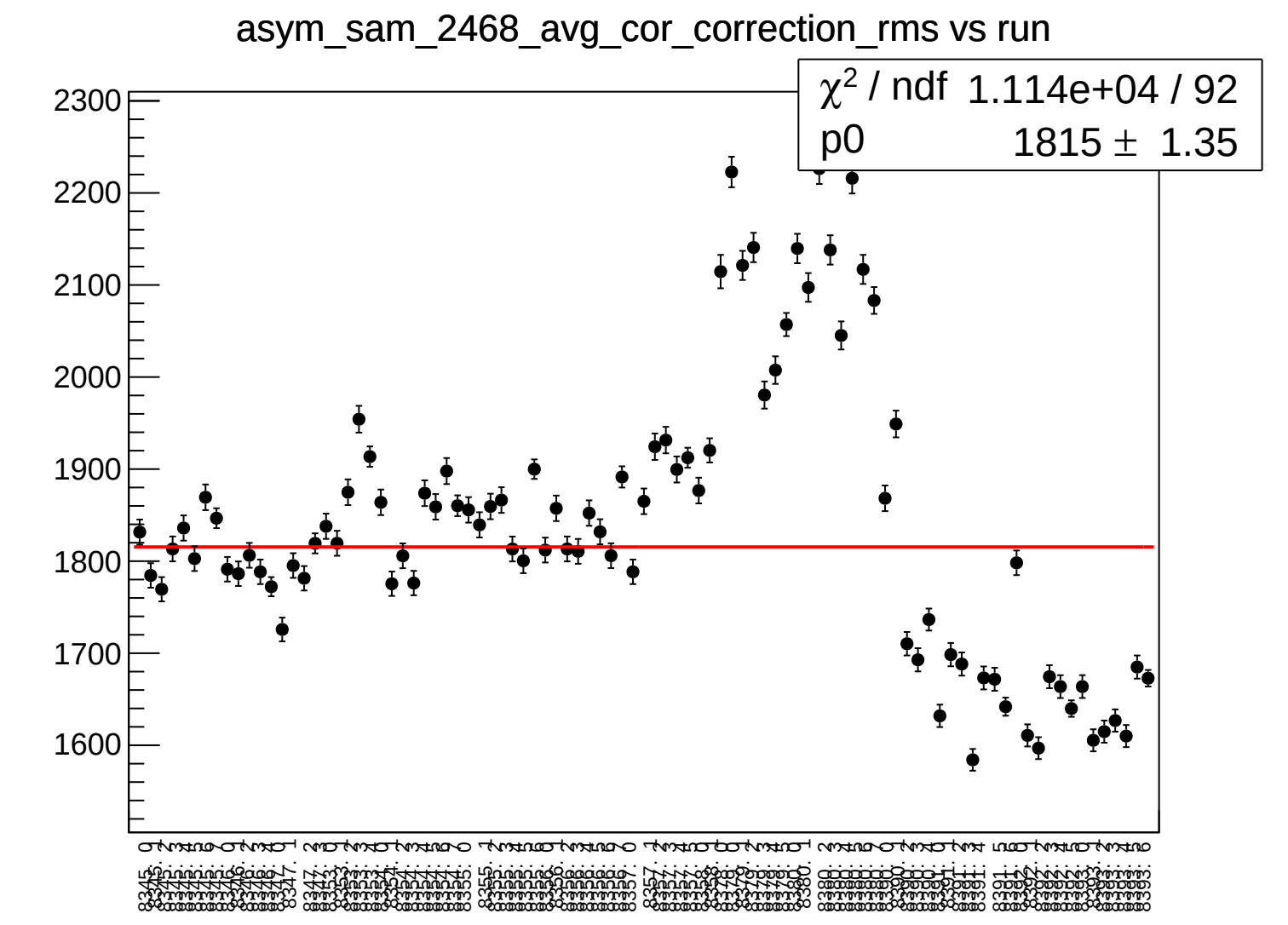

cor_asym_sam_2468_avg_mean vs run
χ² / ndf 91.12 / 92
p0 −172.8 ± 129.2
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean 23.91
Std Dev 0
2
1
0
−1
−2

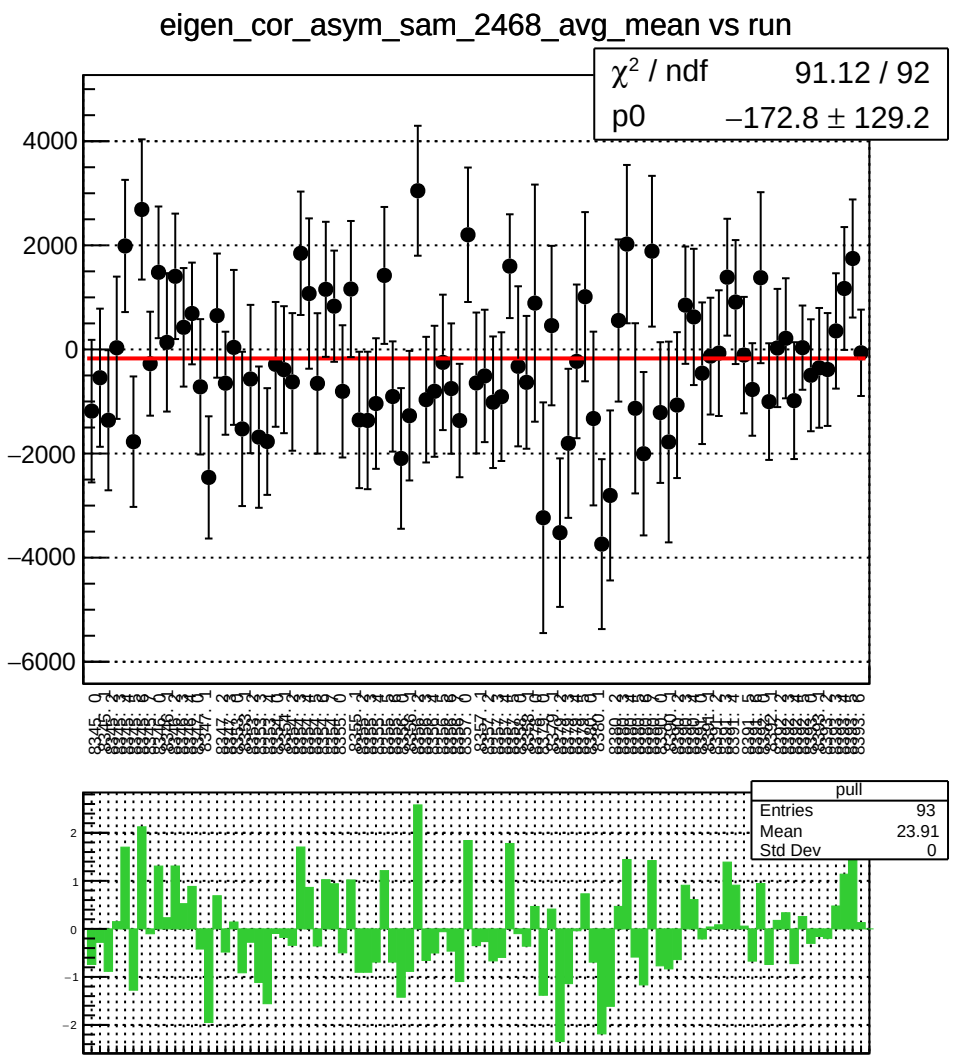

pull1D
Entries 93
Mean −0.02505
Std Dev 0.9895
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

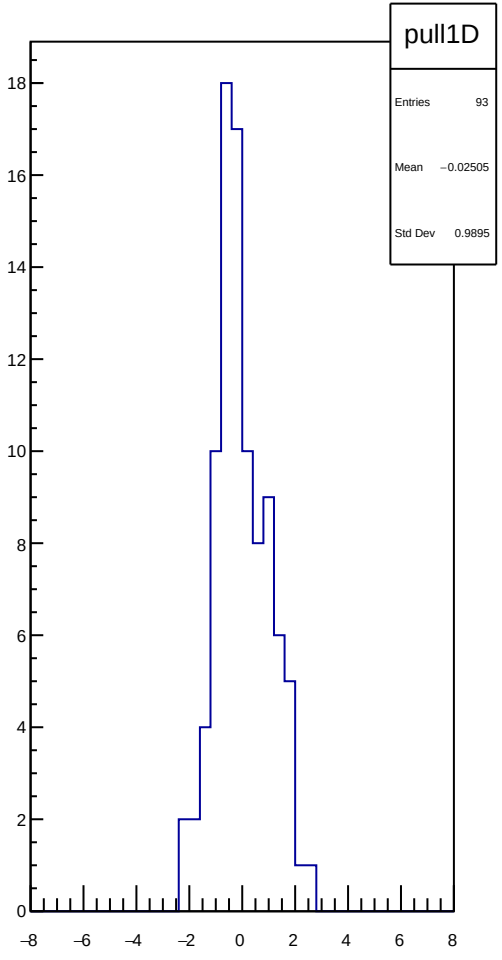

cor_asym_sam_2468_avg_rms vs run
χ² / ndf 2.927e+04 / 92
p0 122.2 ± 0.09133
220
200
180
160
140
120
100

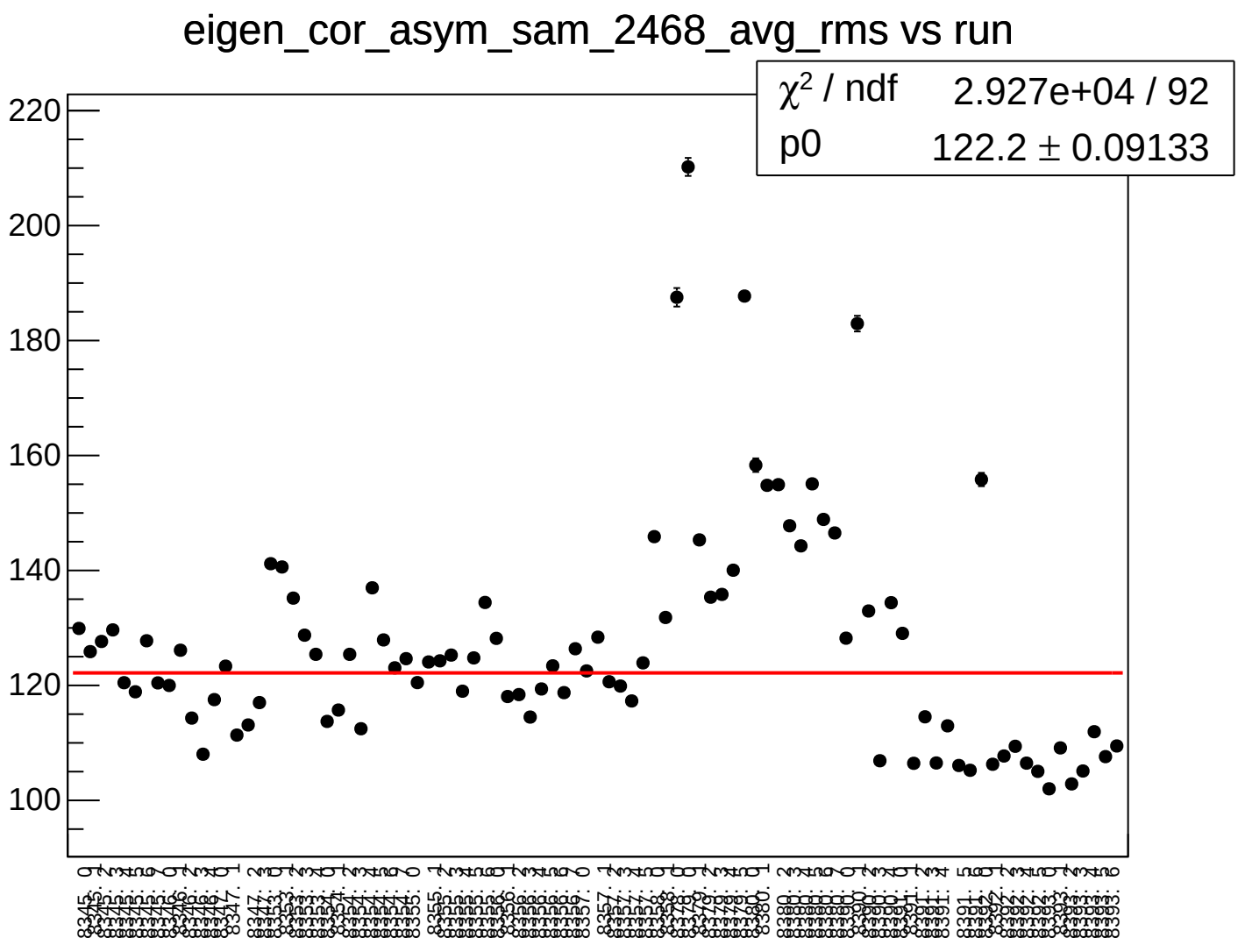

asym_sam_2468_avg_cor_correction_mean vs run
χ² / ndf 117 / 92
p0 −6375 ± 1909
pull
Entries 93
Mean −406.3
Std Dev 0

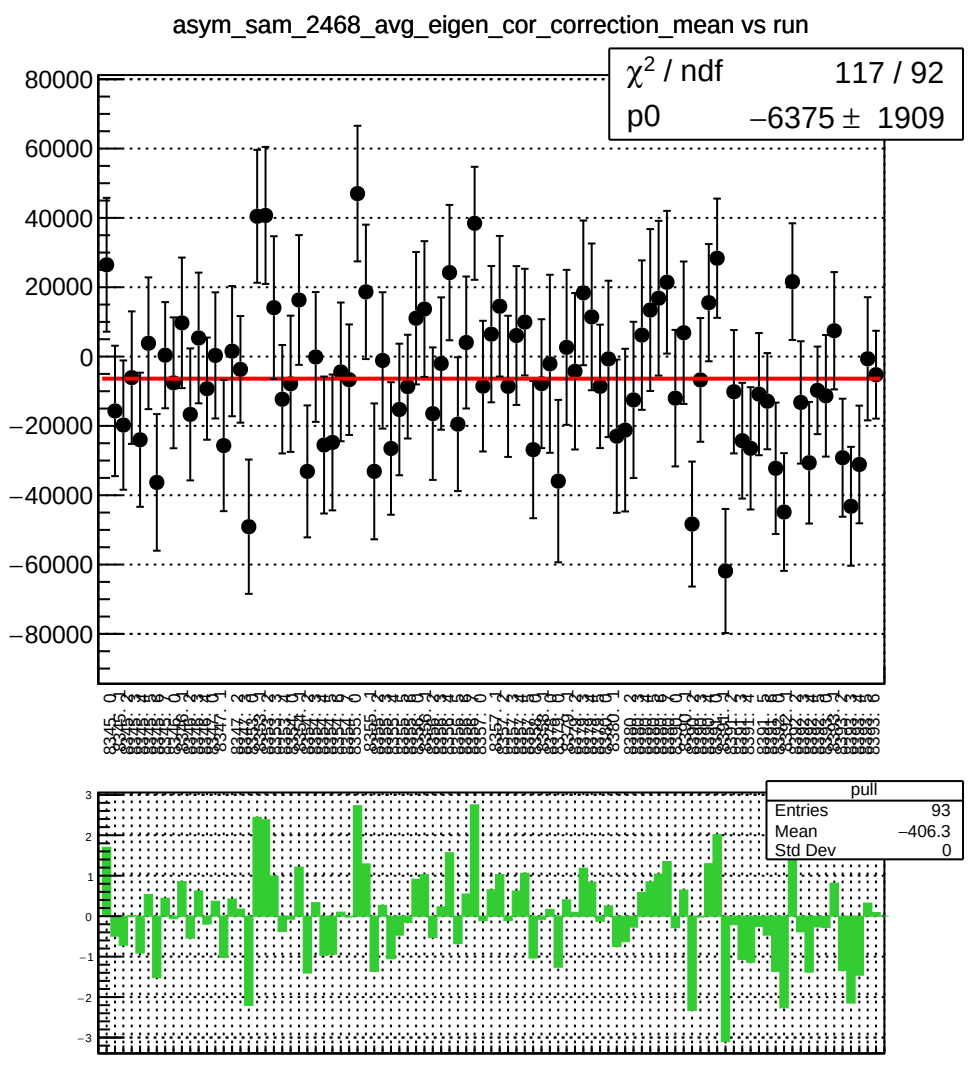

pull1D
Entries 93
Mean 0.01142
Std Dev 1.121

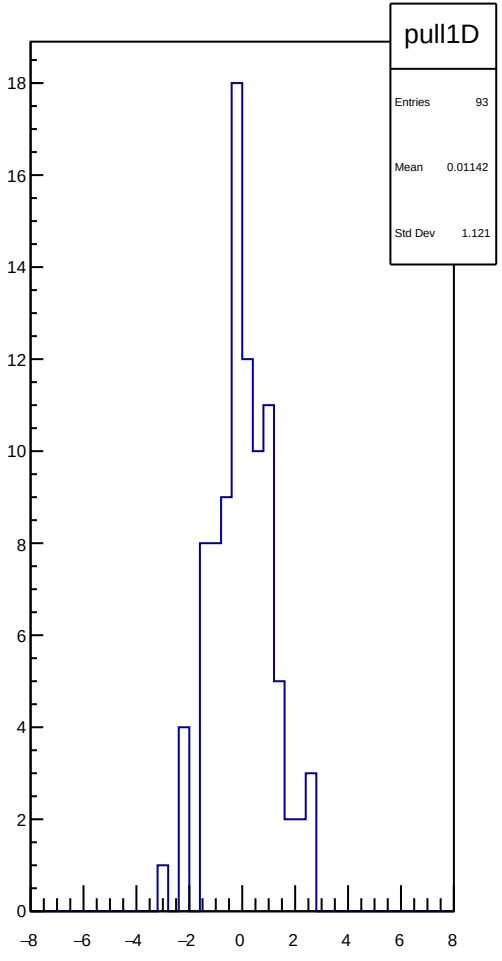

asym_sam_2468_avg_cor_correction_rms vs run
χ² / ndf 1.114e+04 / 92
p0 1815 ± 1.35
2300
2200
2100
2000
1900
1800
1700
1600

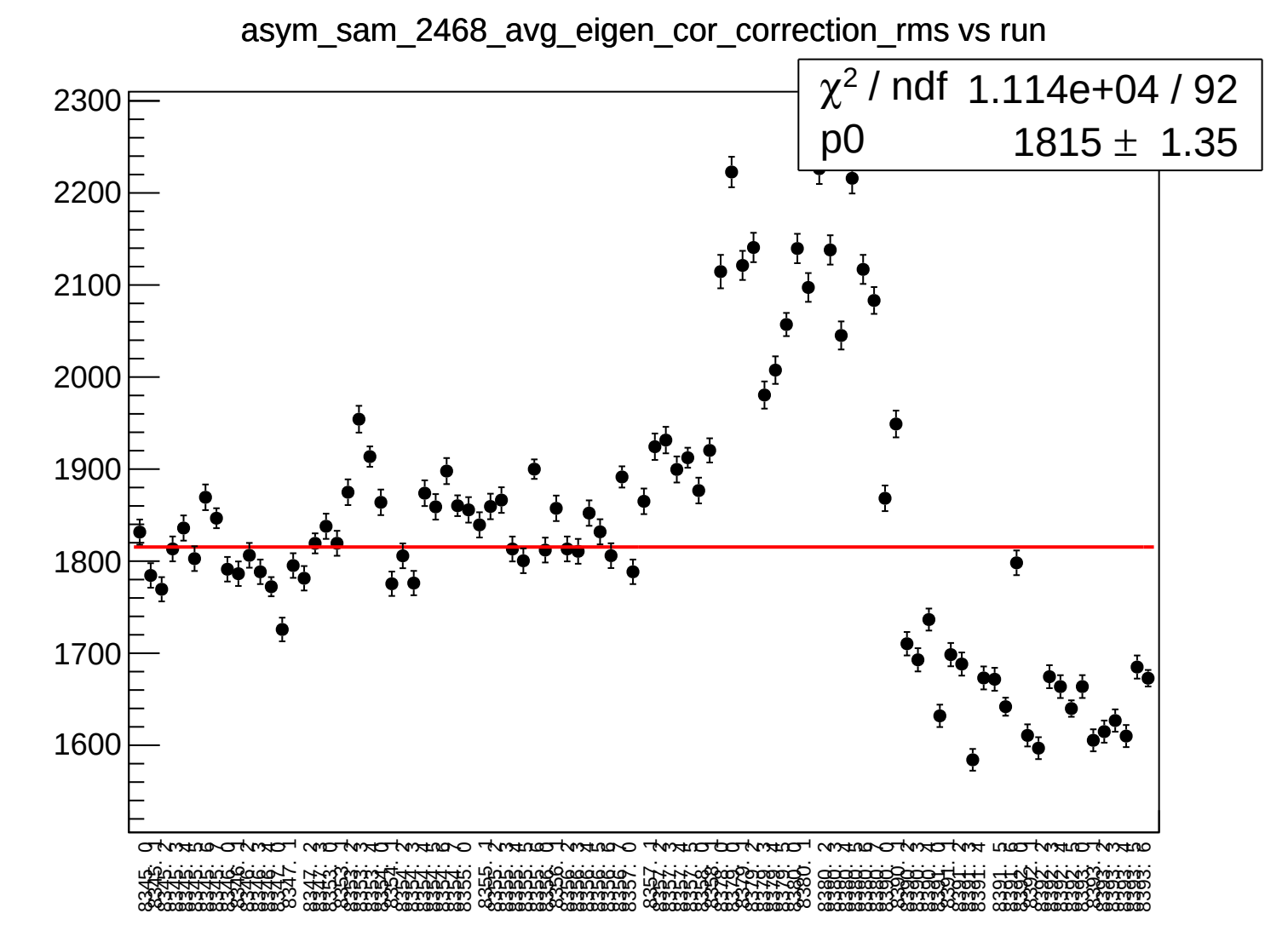

eigen_cor_asym_sam_2468_avg_mean vs run
χ² / ndf 91.12 / 92
p0 −172.8 ± 129.2
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean 23.91
Std Dev 0
2
1
0
−1
−2

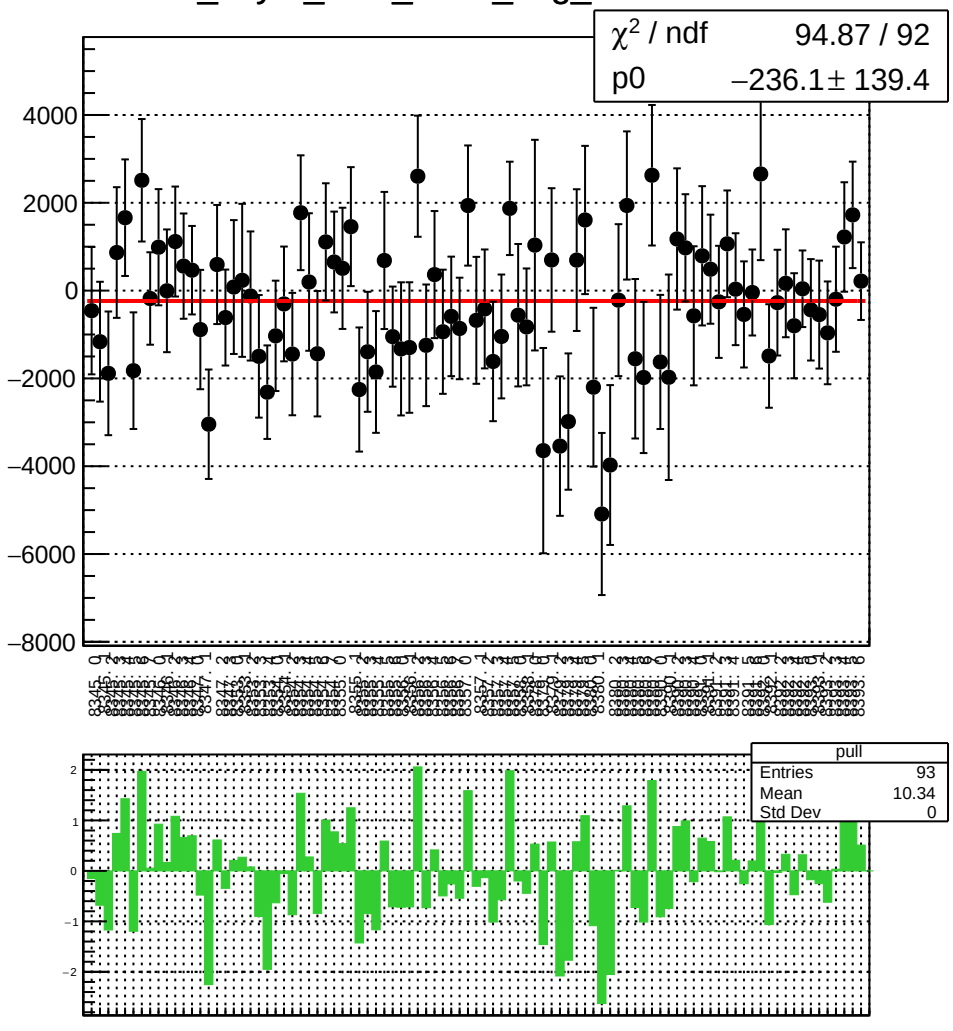

pull1D
Entries 93
Mean −0.02505
Std Dev 0.9895
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

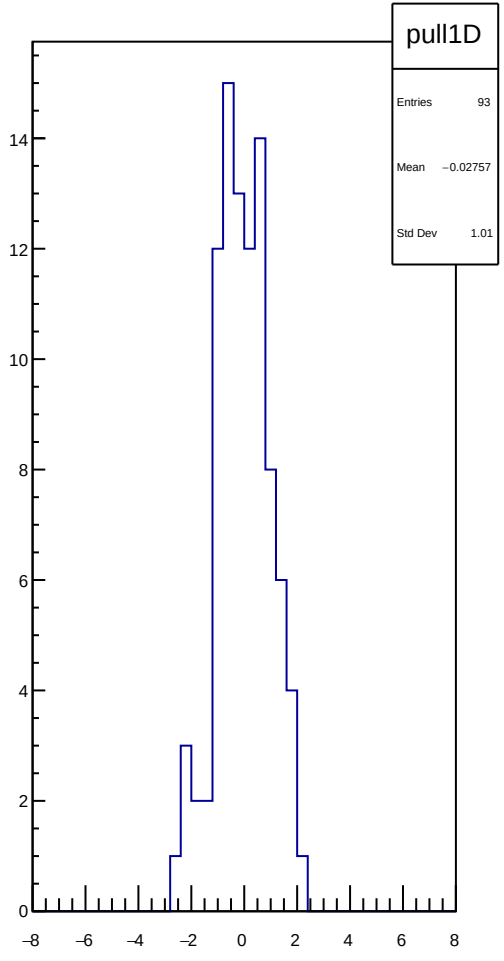

eigen_cor_asym_sam_2468_avg_rms vs run
χ² / ndf 2.927e+04 / 92
p0 122.2 ± 0.09133
220
200
180
160
140
120
100

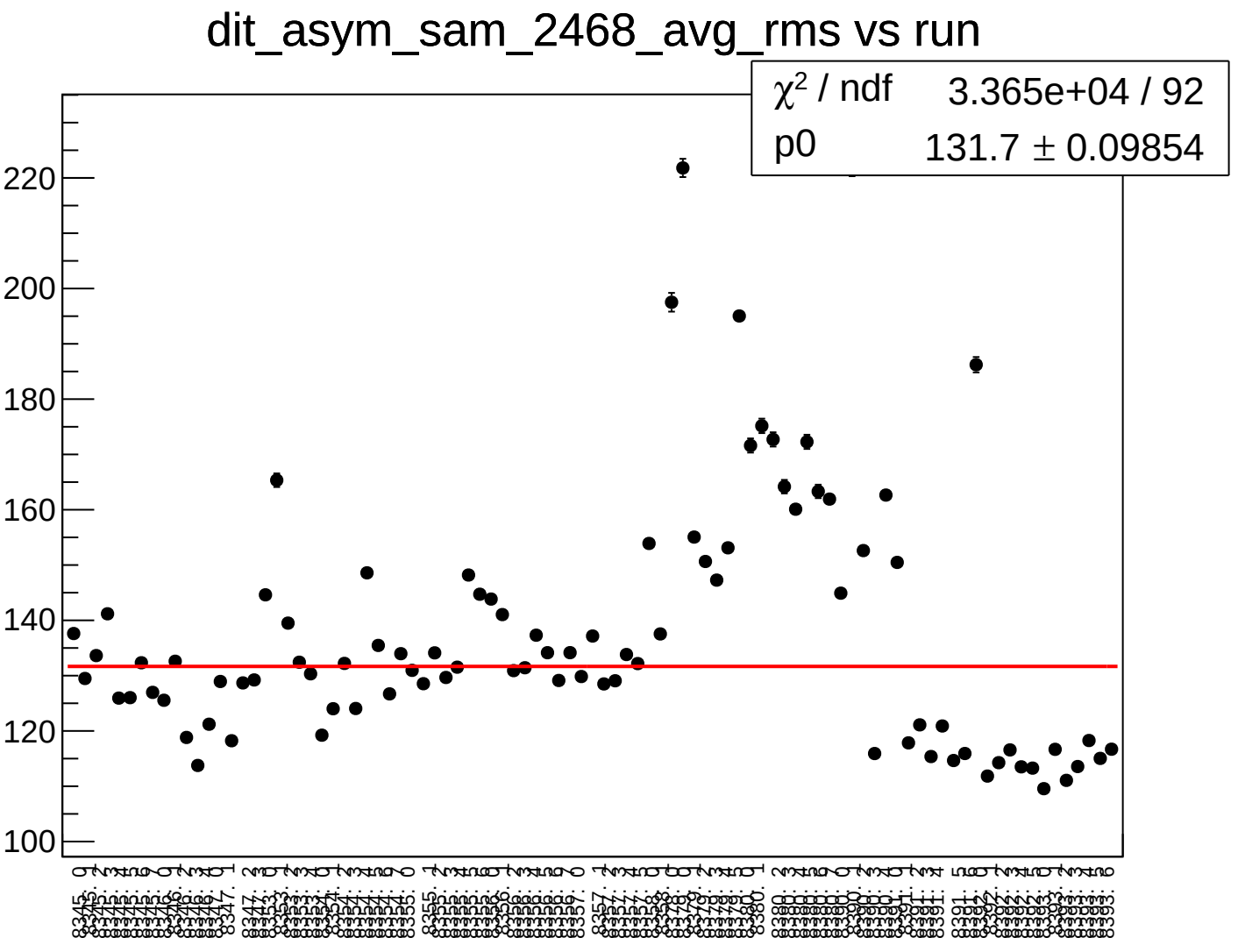

asym_sam_2468_avg_eigen_cor_correction_mean vs run
χ² / ndf 117 / 92
p0 −6375 ± 1909
pull
Entries 93
Mean −406.3
Std Dev 0

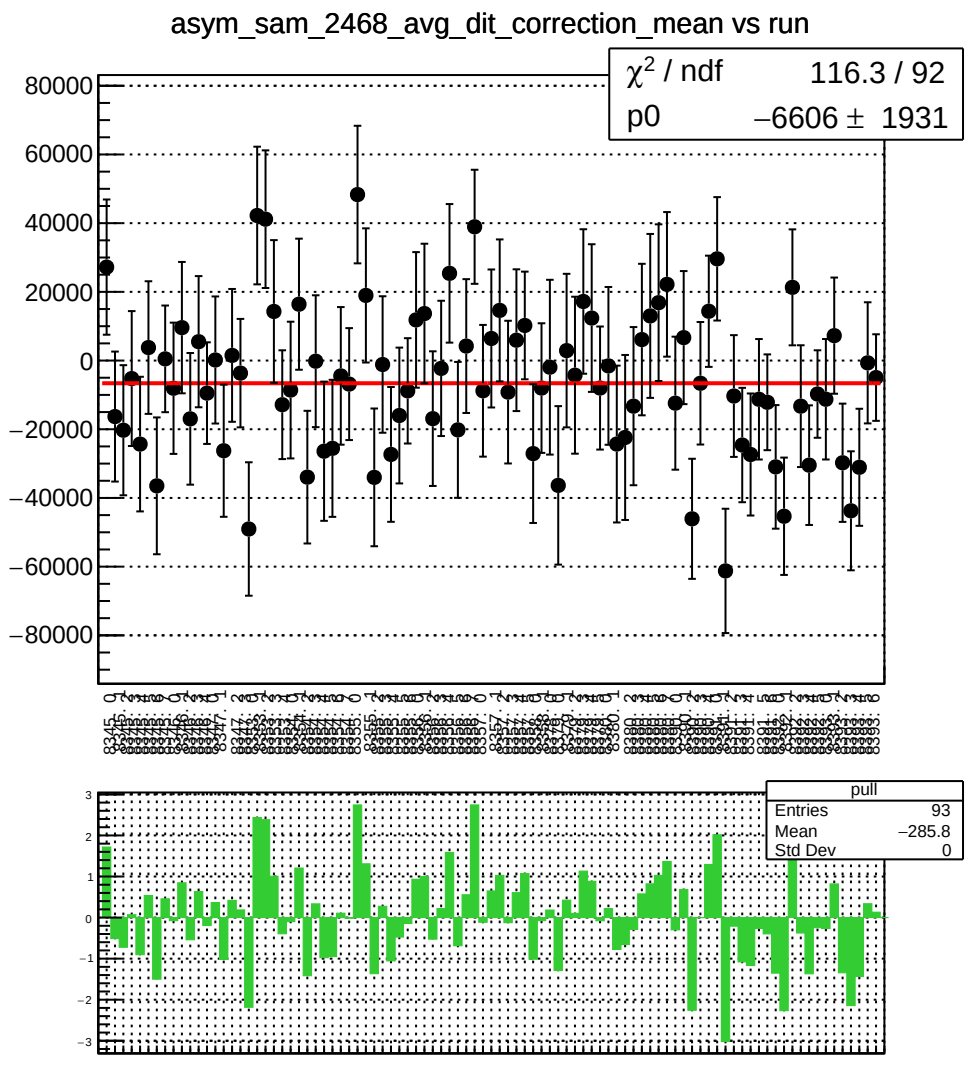

pull1D
Entries 93
Mean 0.01142
Std Dev 1.121

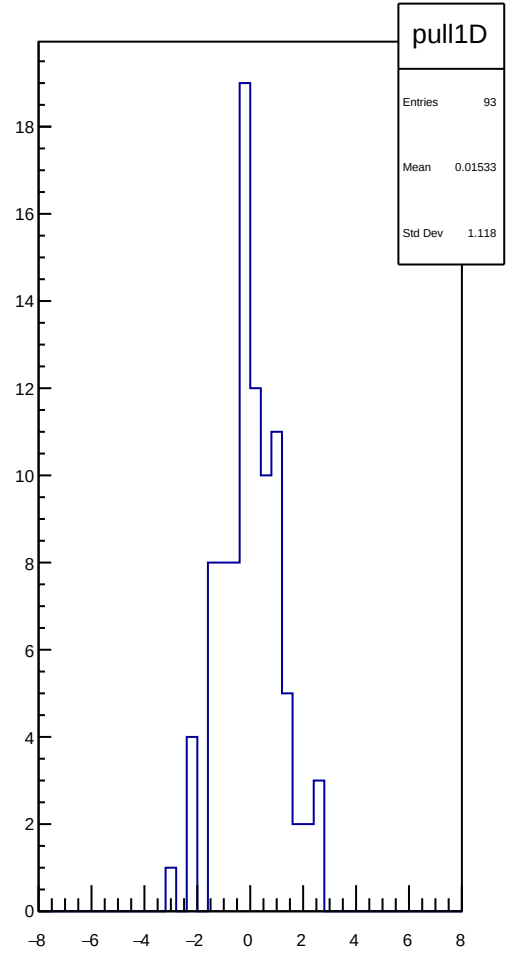

asym_sam_2468_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.114e+04 / 92
p0 1815 ± 1.35
2300
2200
2100
2000
1900
1800
1700
1600

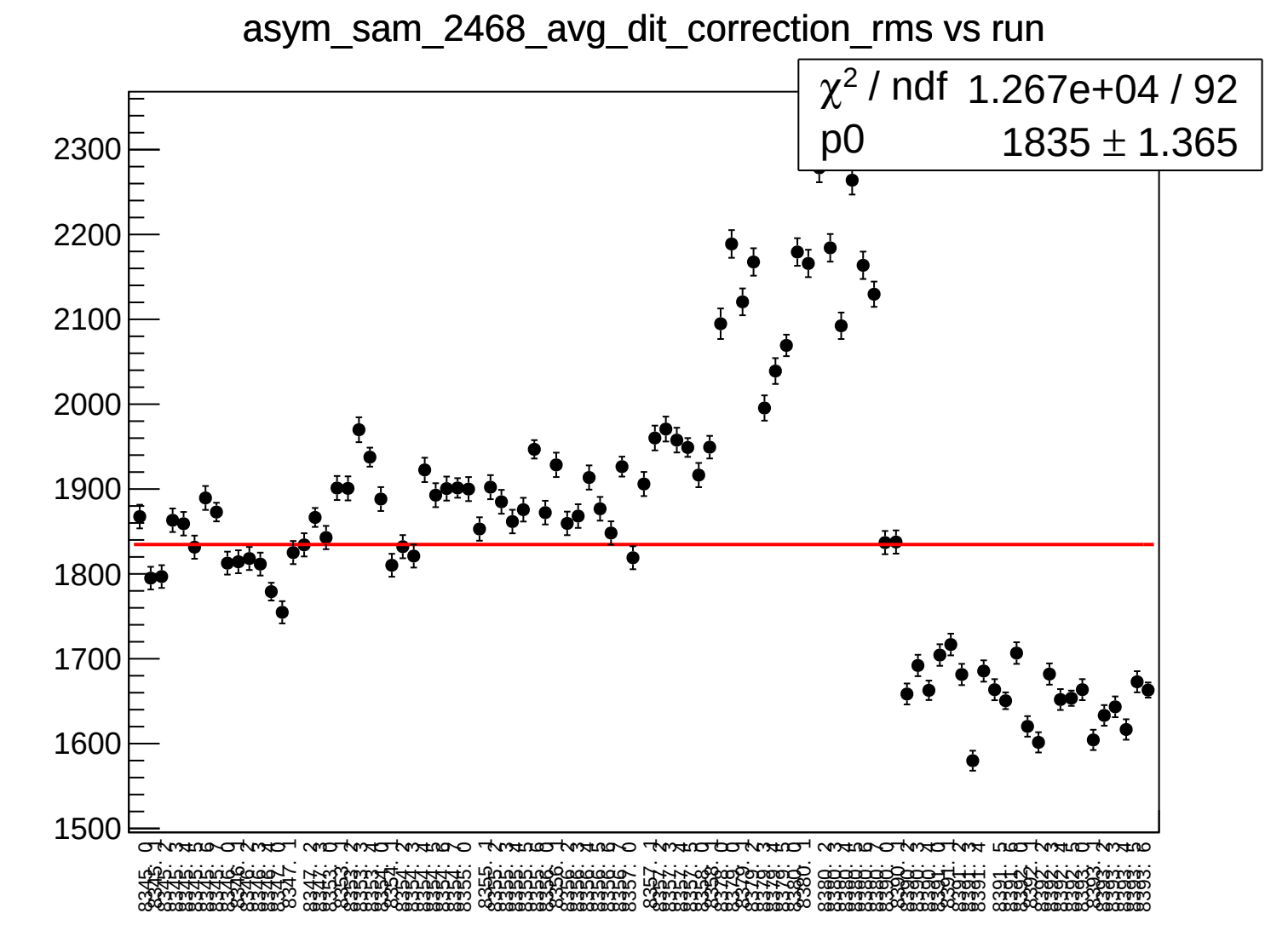

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 94.87 / 92
p0 −236.1± 139.4
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 93
Mean 10.34
Std Dev 0
2
1
0
−1
−2

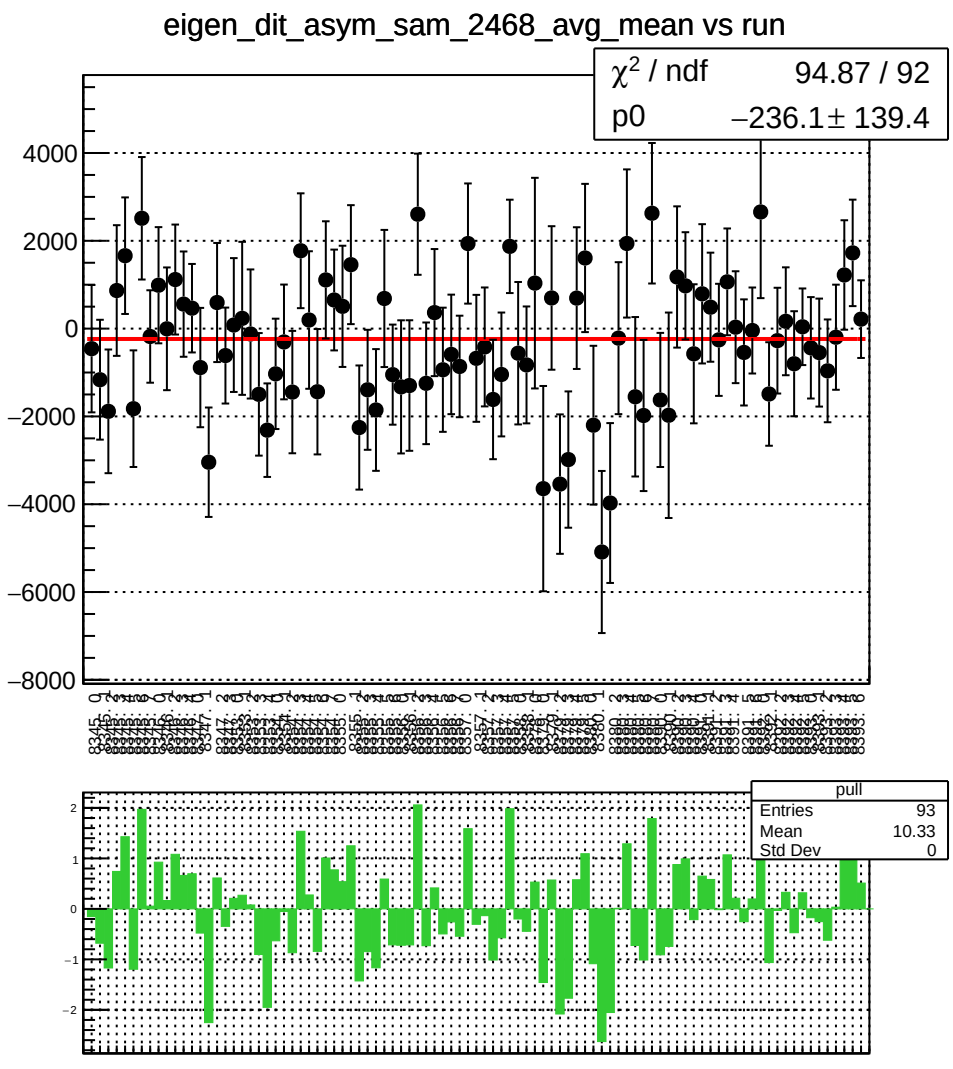

pull1D
Entries 93
Mean −0.02757
Std Dev 1.01
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

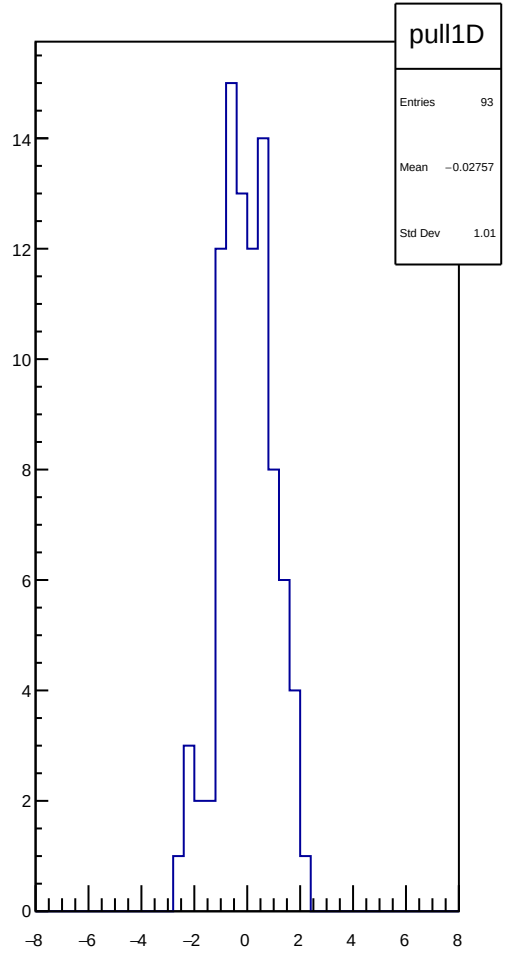

dit_asym_sam_2468_avg_rms vs run
χ² / ndf 3.365e+04 / 92
p0 131.7 ± 0.09854
220
200
180
160
140
120
100

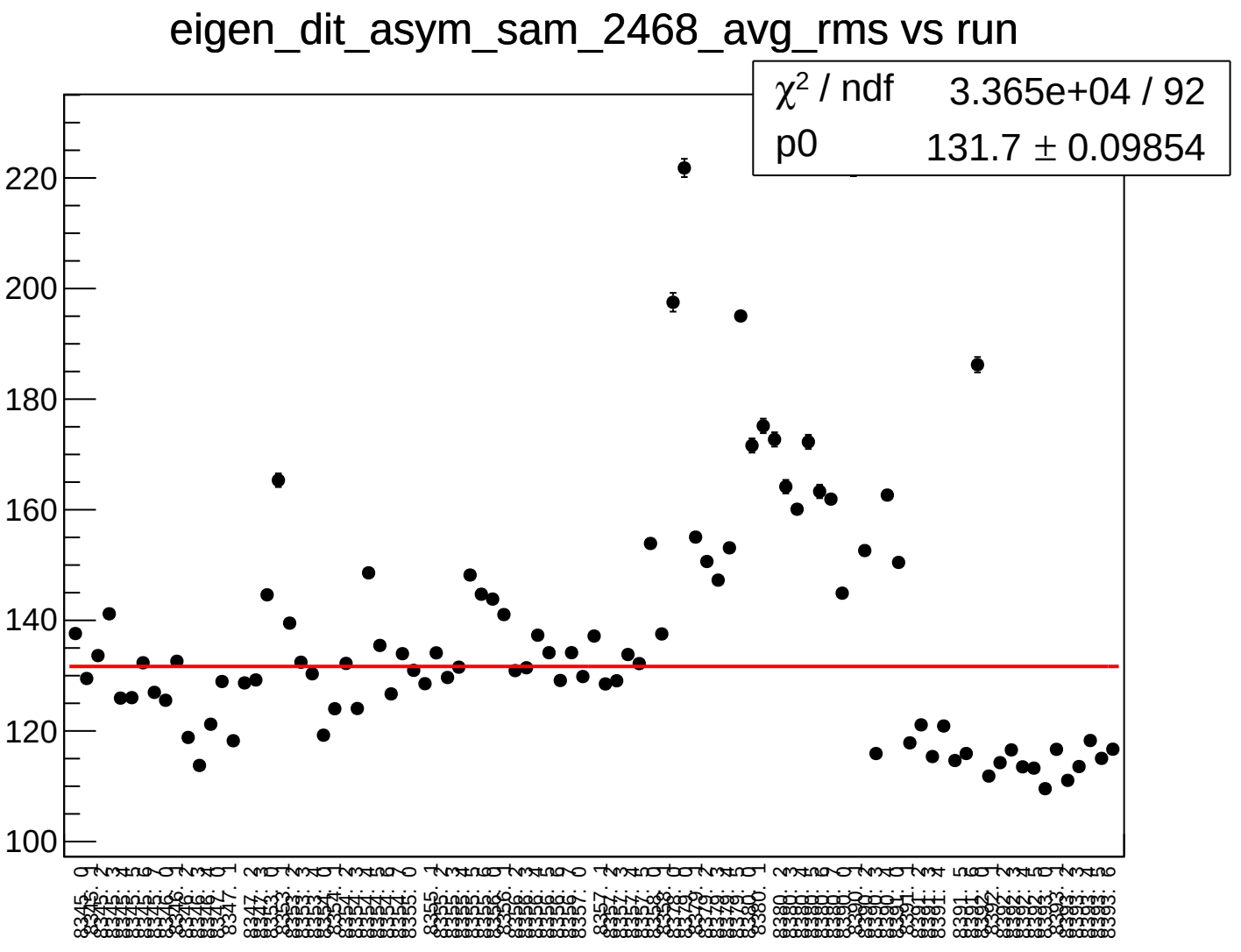

asym_sam_2468_avg_dit_correction_mean vs run
χ² / ndf 116.3 / 92
p0 −6606 ± 1931
pull
Entries 93
Mean −285.8
Std Dev 0

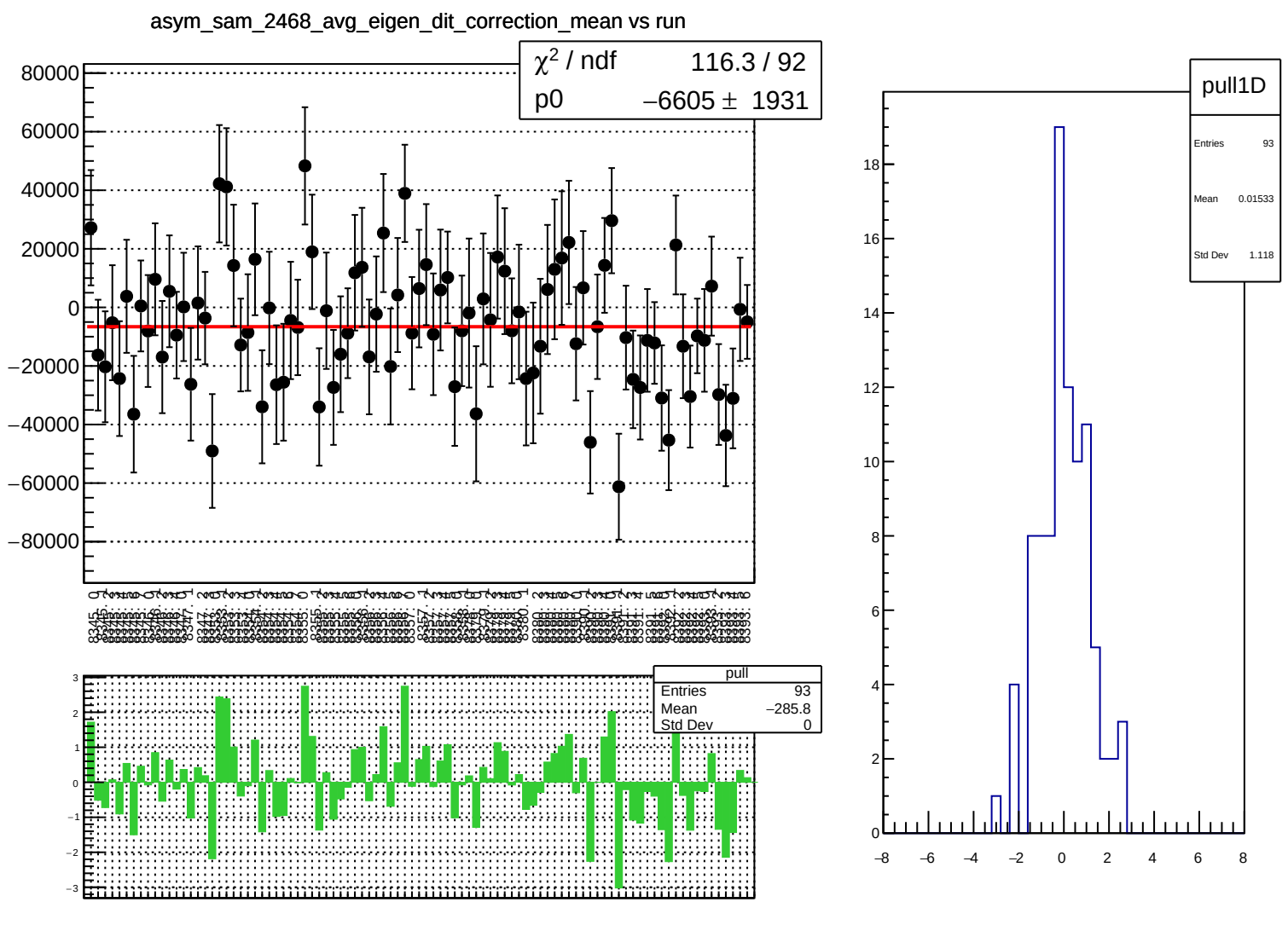

pull1D
Entries 93
Mean 0.01533
Std Dev 1.118

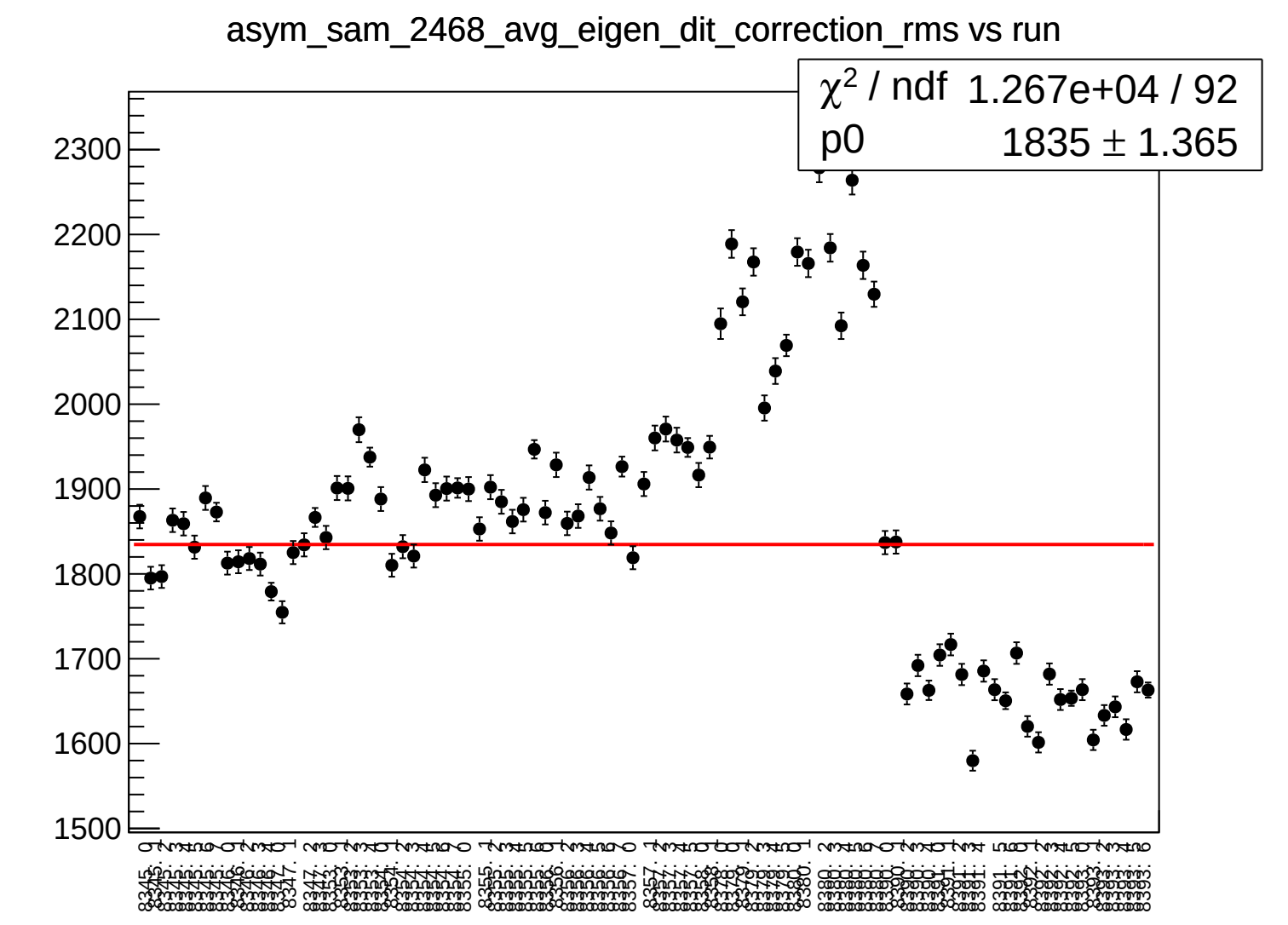

asym_sam_2468_avg_dit_correction_rms vs run
χ² / ndf 1.267e+04 / 92
p0 1835 ± 1.365
2300
2200
2100
2000
1900
1800
1700
1600
1500

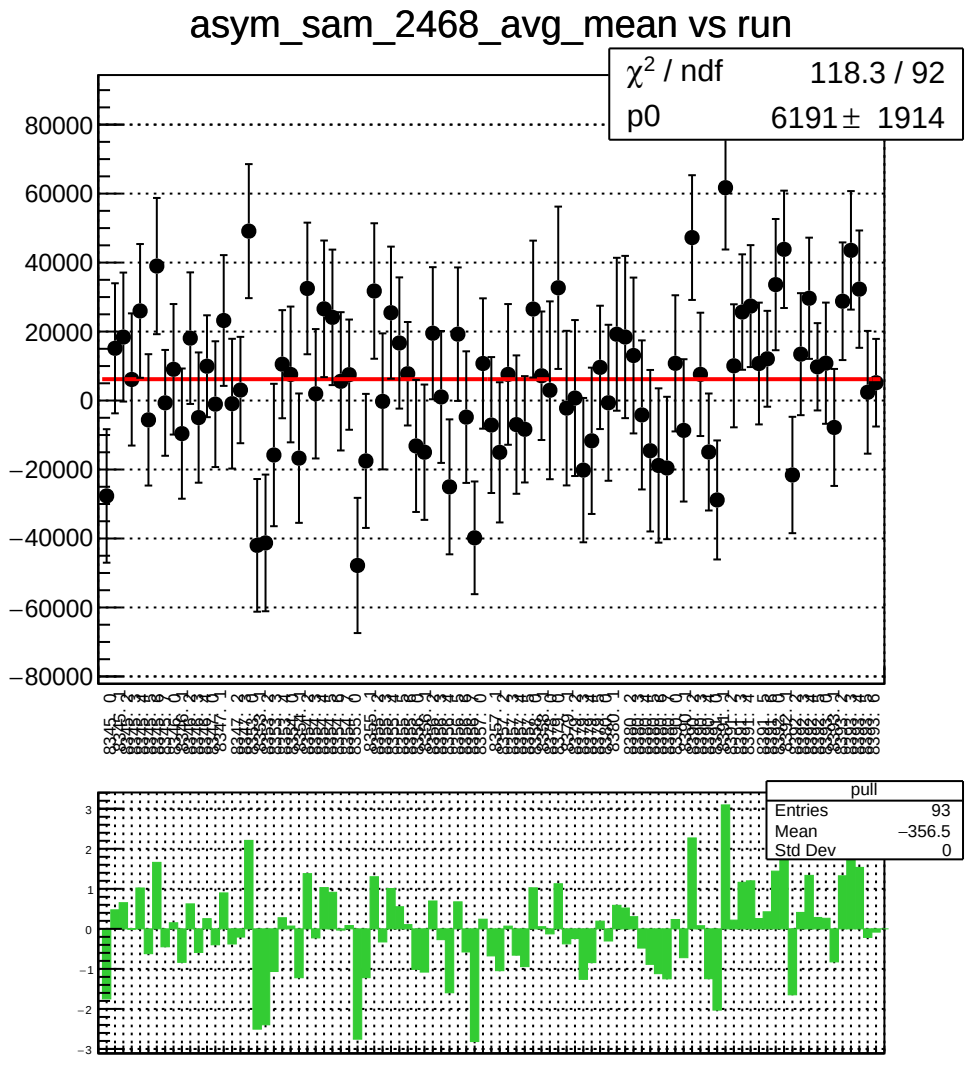

eigen_dit_asym_sam_2468_avg_mean vs run
χ² / ndf 94.87 / 92
p0 −236.1± 139.4
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 93
Mean 10.33
Std Dev 0
2
1
0
−1
−2

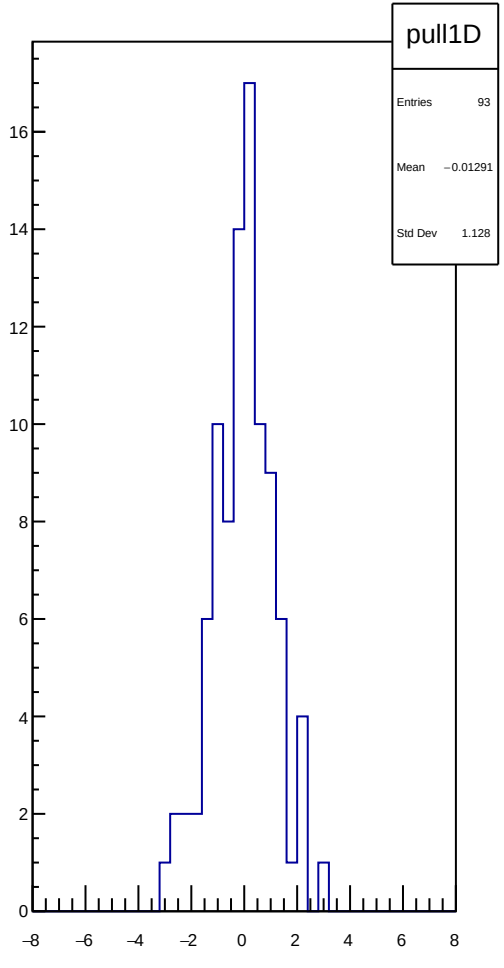

pull1D
Entries 93
Mean −0.02757
Std Dev 1.01
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

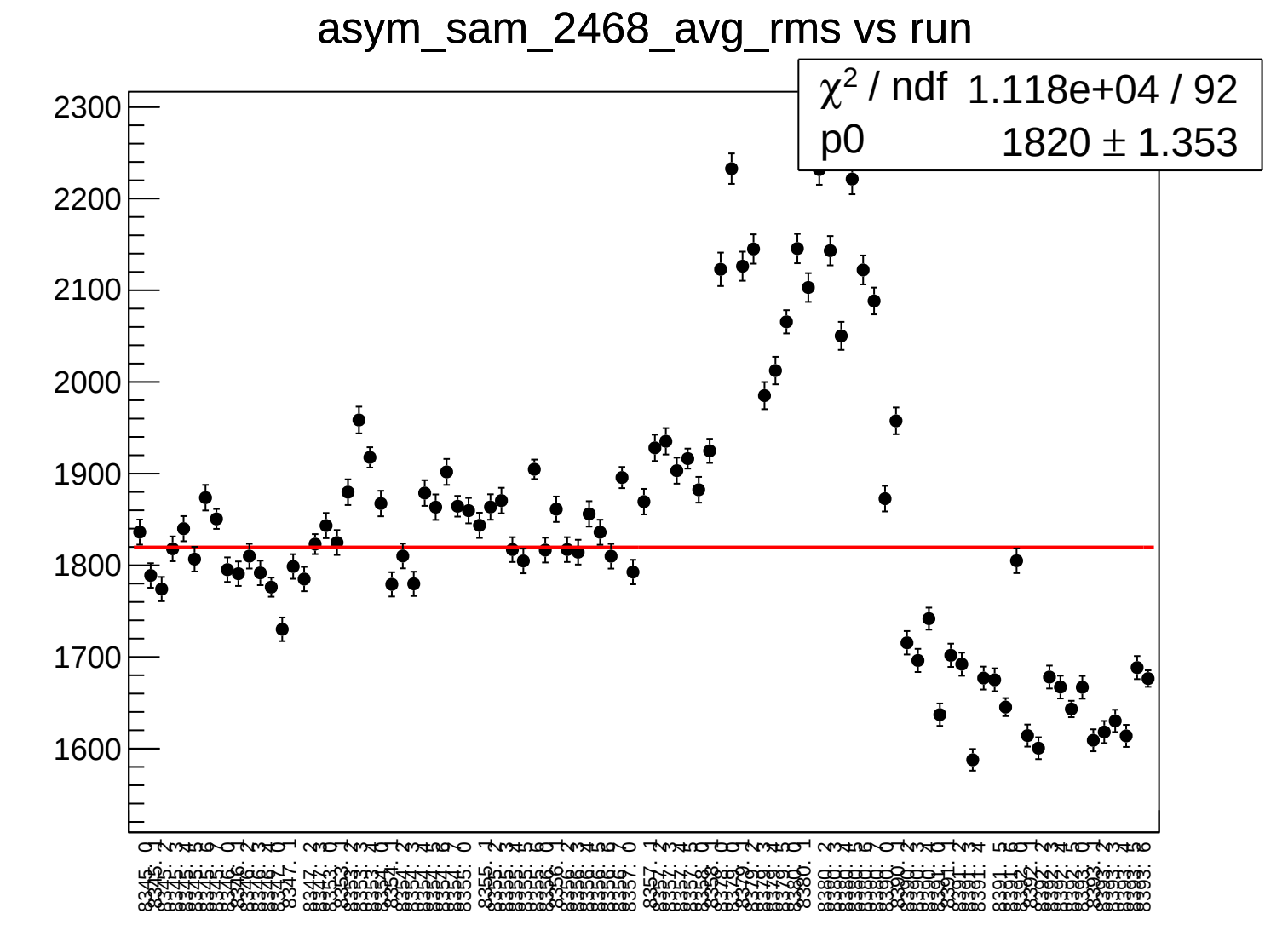

eigen_dit_asym_sam_2468_avg_rms vs run
χ² / ndf 3.365e+04 / 92
p0 131.7 ± 0.09854
220
200
180
160
140
120
100

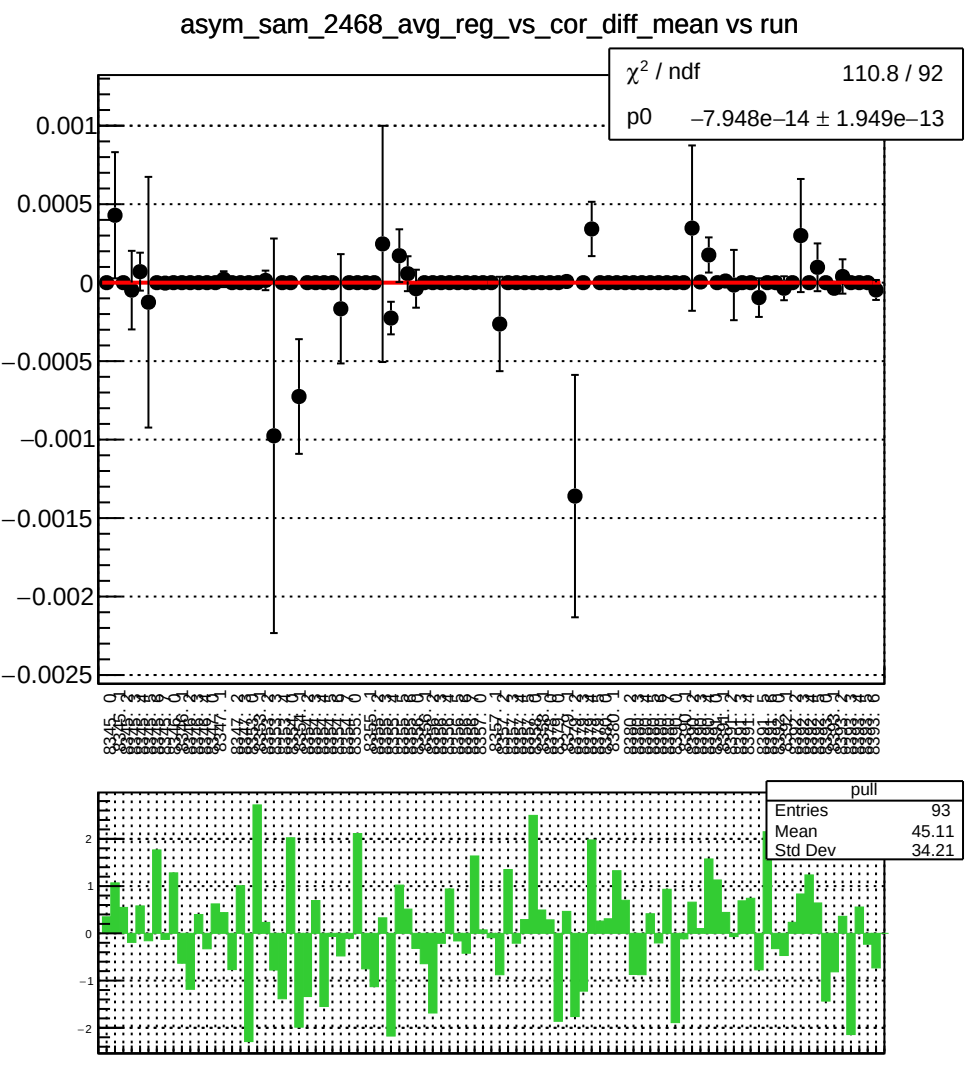

asym_sam_2468_avg_eigen_dit_correction_mean vs run
χ² / ndf 116.3 / 92
p0 −6605 ± 1931
pull
Entries 93
Mean −285.8
Std Dev 0
pull1D
Entries 93
Mean 0.01533
Std Dev 1.118

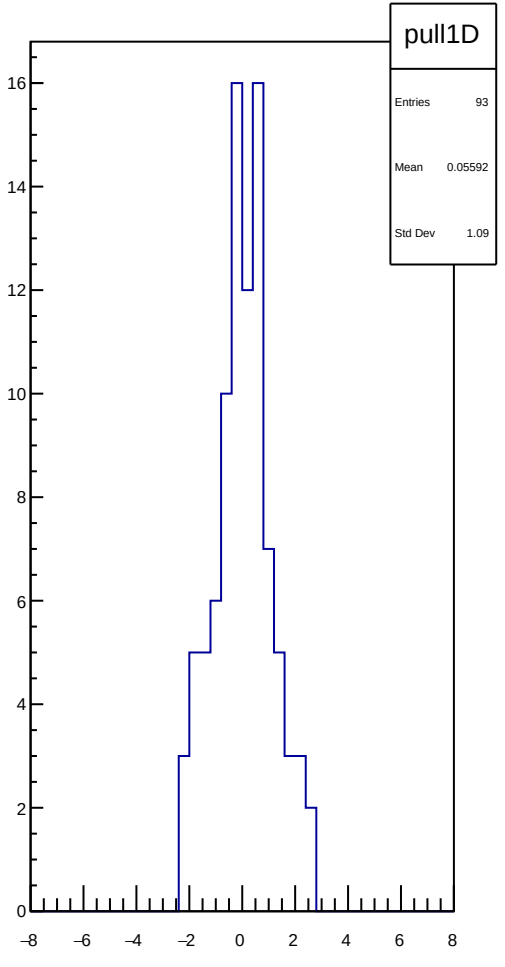

asym_sam_2468_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.267e+04 / 92
p0 1835 ± 1.365
2300
2200
2100
2000
1900
1800
1700
1600
1500

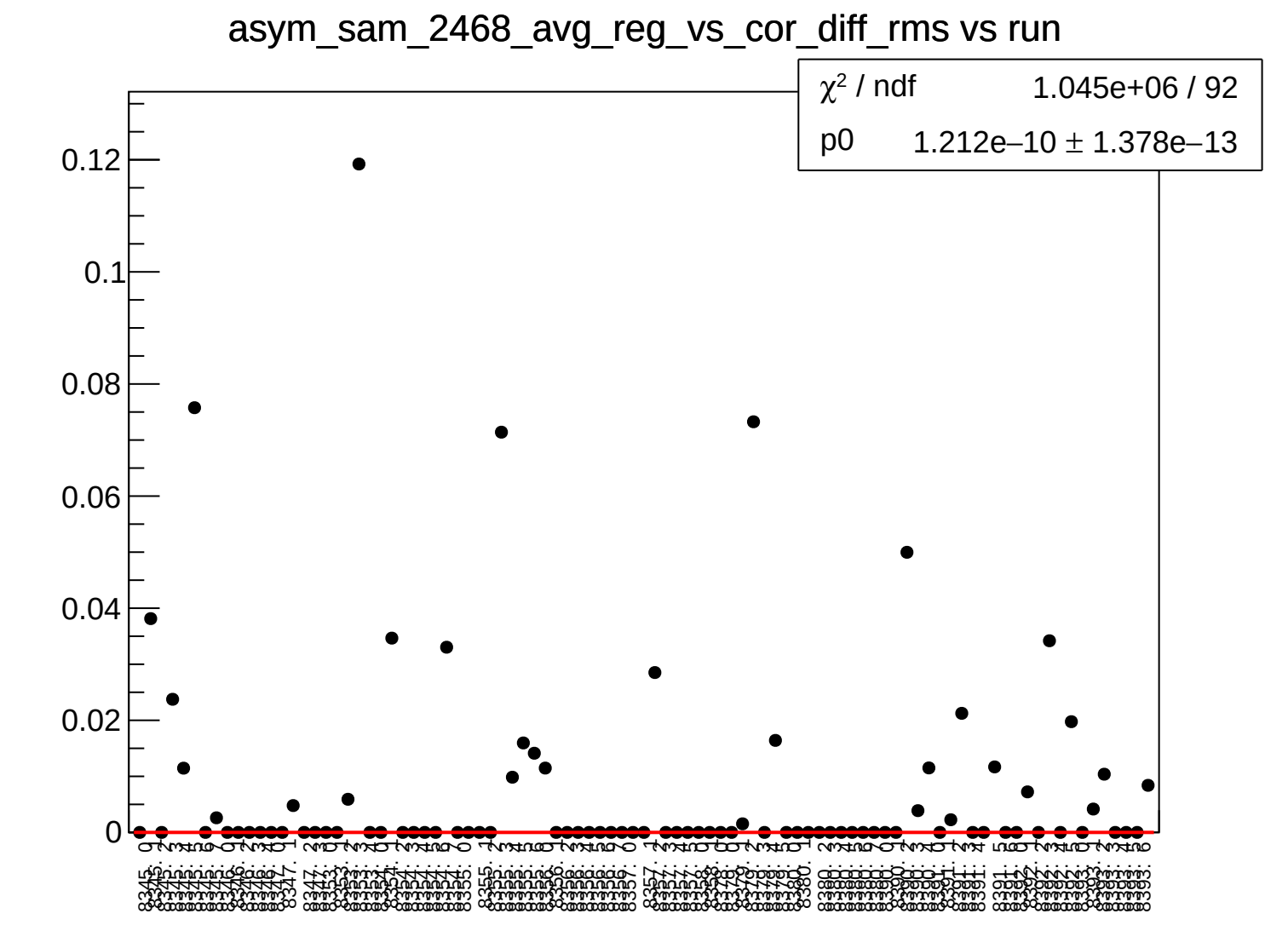

asym_sam_2468_avg_mean vs run
χ² / ndf 118.3 / 92
p0 6191 ± 1914
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean −356.5
Std Dev 0
3
2
1
0
−1
−2
−3

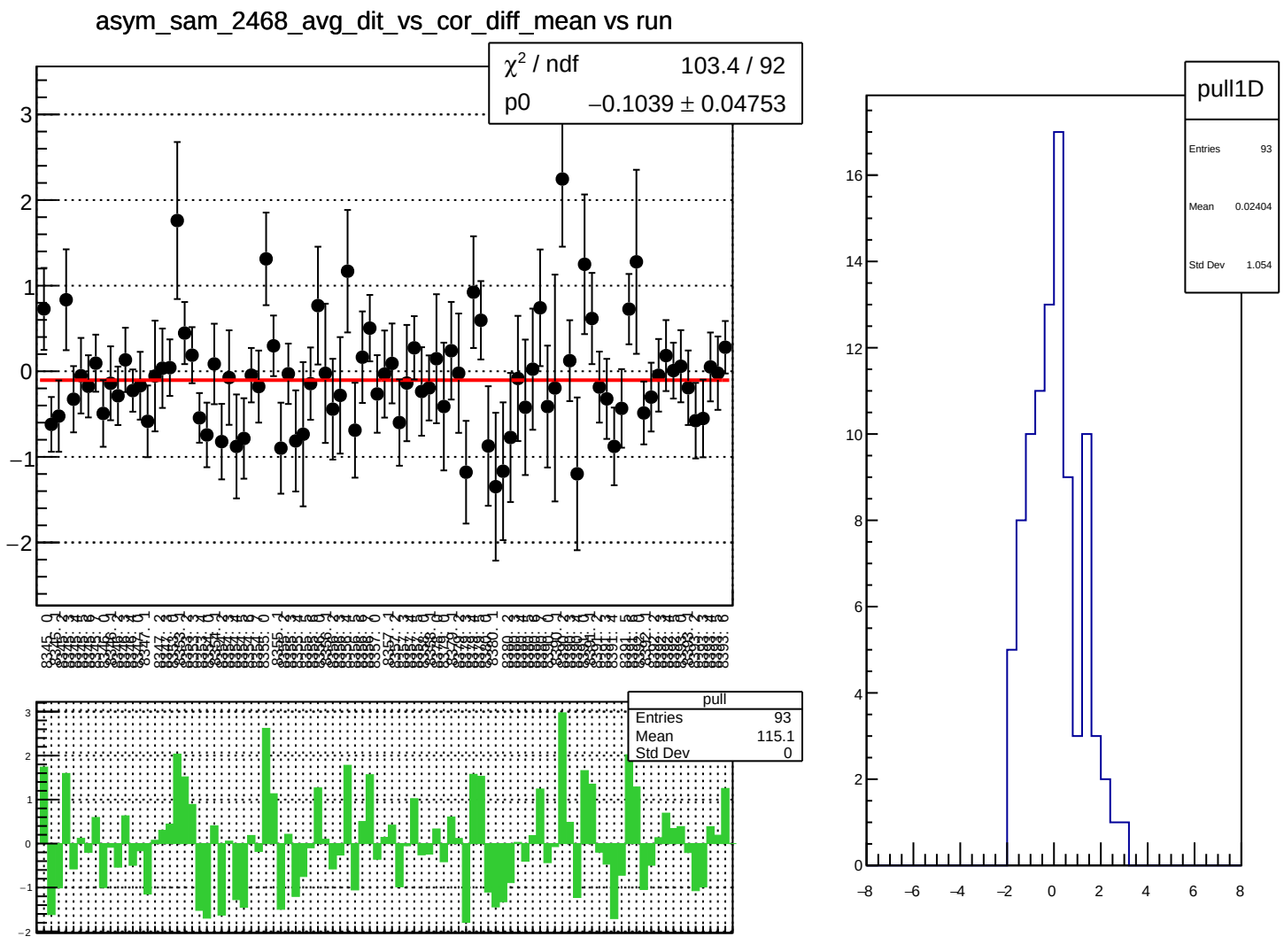

pull1D
Entries 93
Mean −0.01291
Std Dev 1.128
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

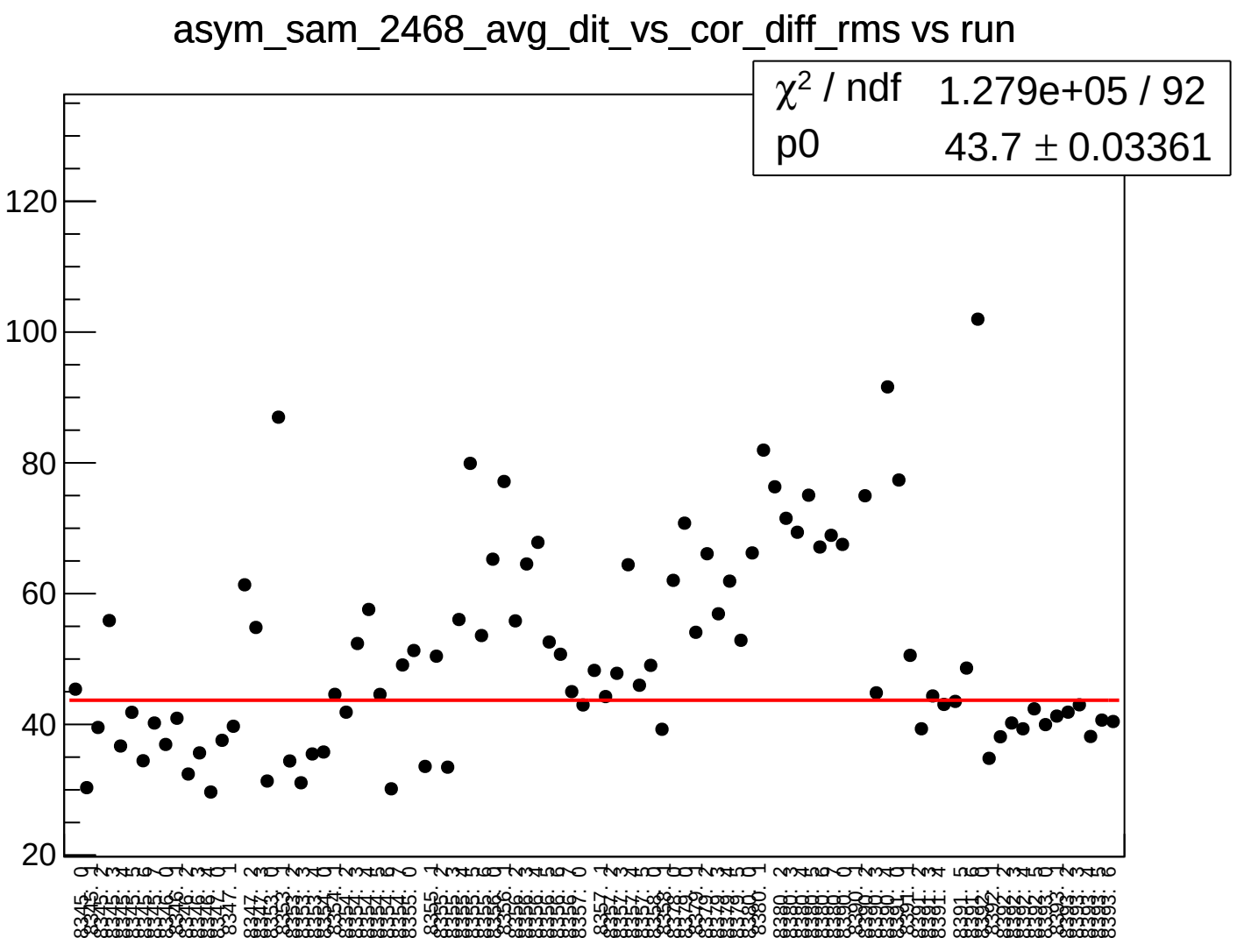

asym_sam_2468_avg_rms vs run
χ² / ndf 1.118e+04 / 92
p0 1820 ± 1.353
2300
2200
2100
2000
1900
1800
1700
1600

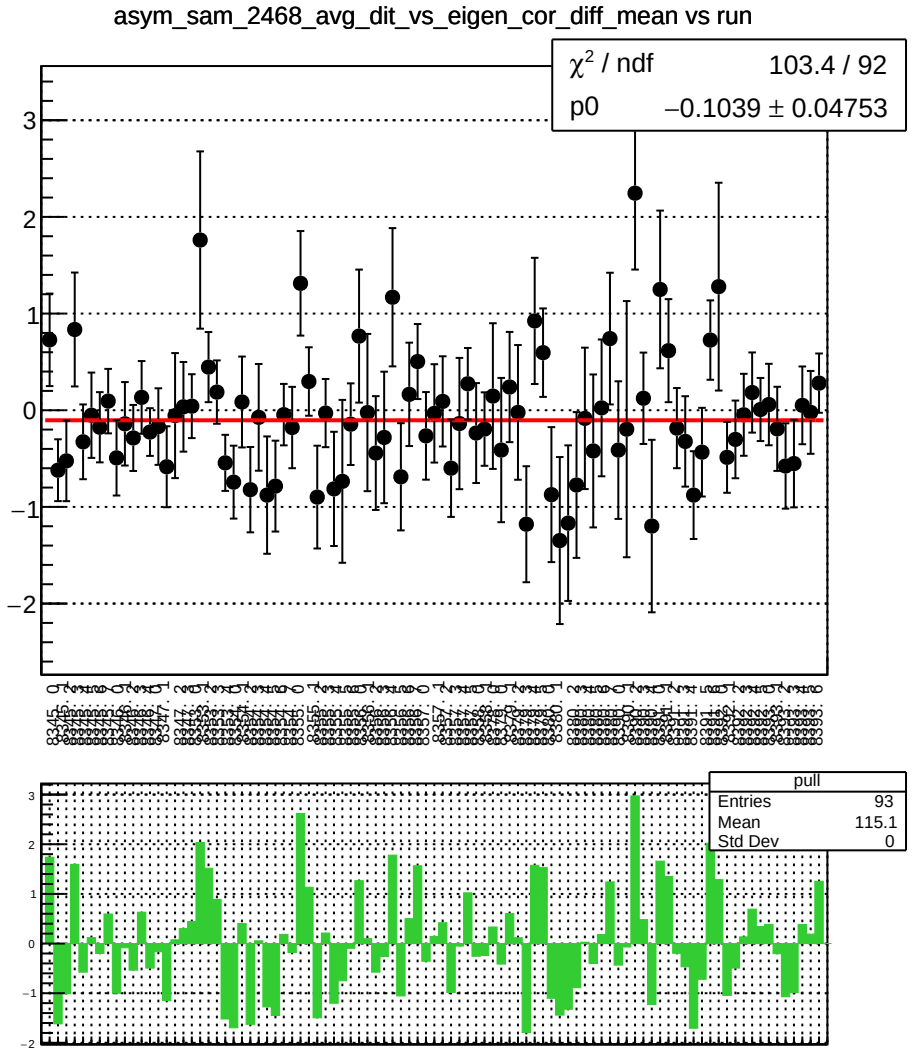

asym_sam_2468_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 110.8 / 92
p0 −7.948e−14 ± 1.949e−13
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
−0.0025
pull
Entries 93
Mean 45.11
Std Dev 34.21
2
1
0
−1
−2

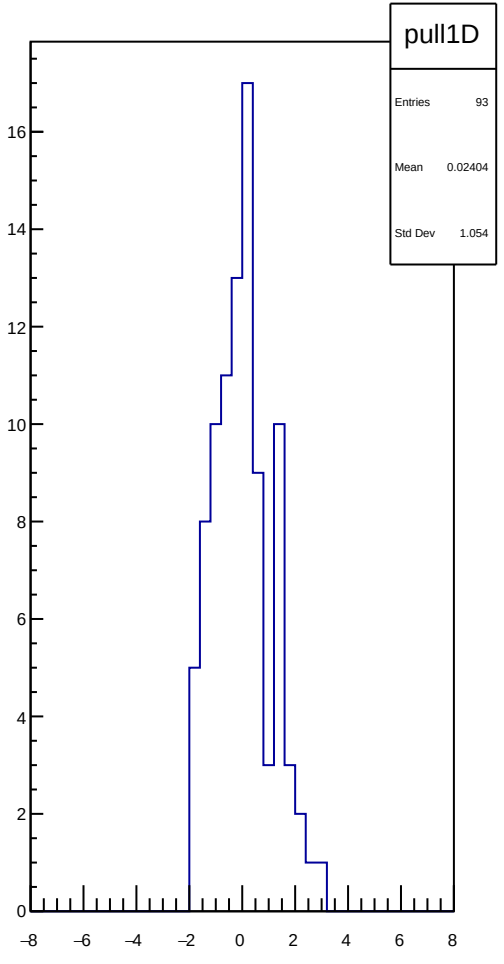

pull1D
Entries 93
Mean 0.05592
Std Dev 1.09
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

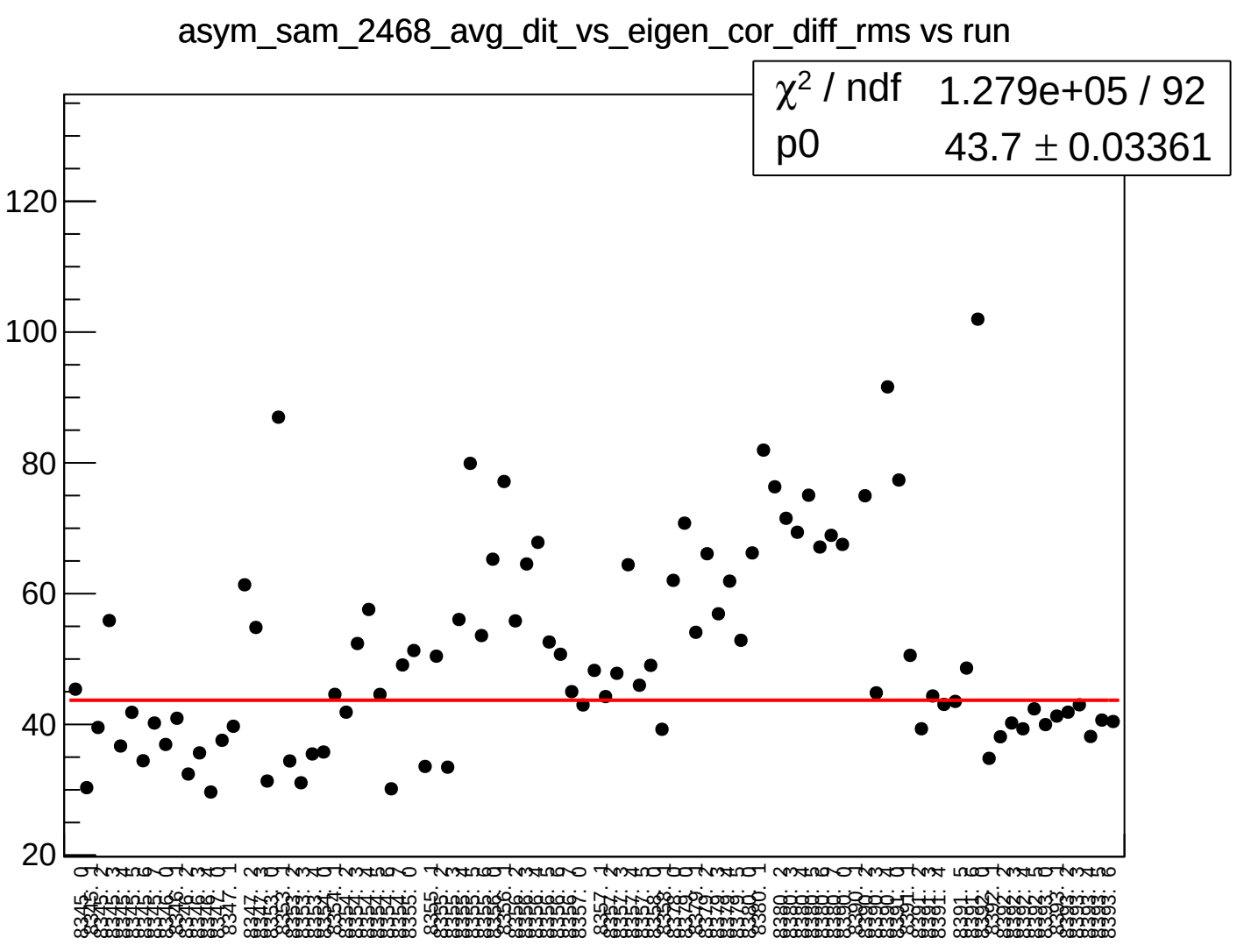

asym_sam_2468_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.045e+06 / 92
p0 1.212e−10 ± 1.378e−13
0.12
0.1
0.08
0.06
0.04
0.02
0

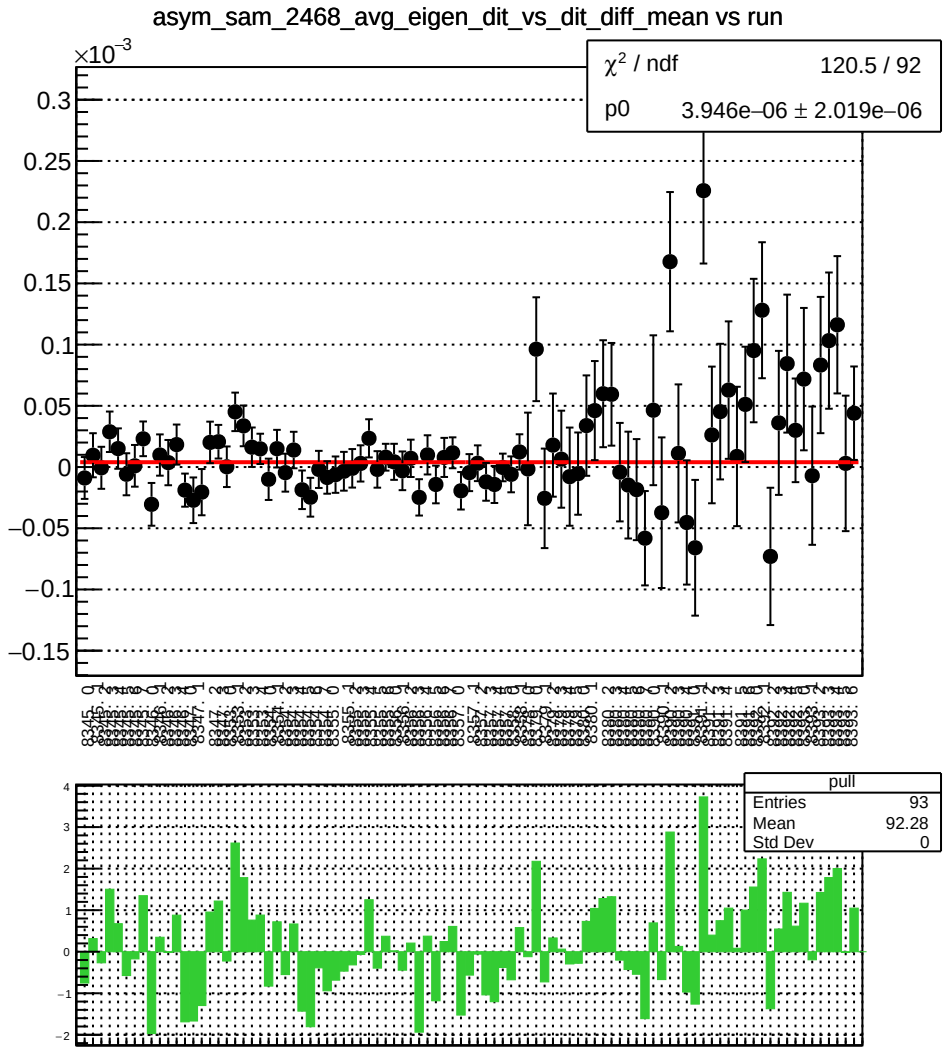

asym_sam_2468_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 103.4 / 92
p0 −0.1039 ± 0.04753
pull
Entries 93
Mean 115.1
Std Dev 0
pull1D
Entries 93
Mean 0.02404
Std Dev 1.054

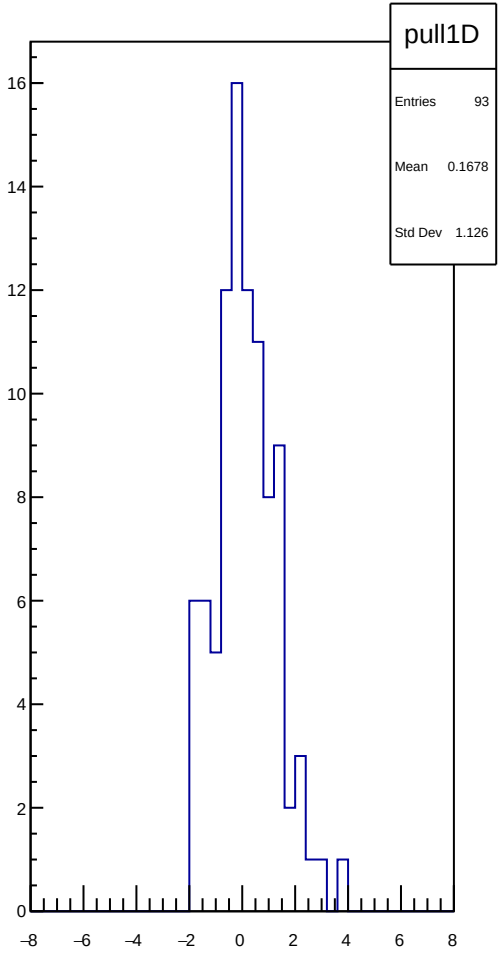

asym_sam_2468_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.279e+05 / 92
p0 43.7 ± 0.03361
120
100
80
60
40
20

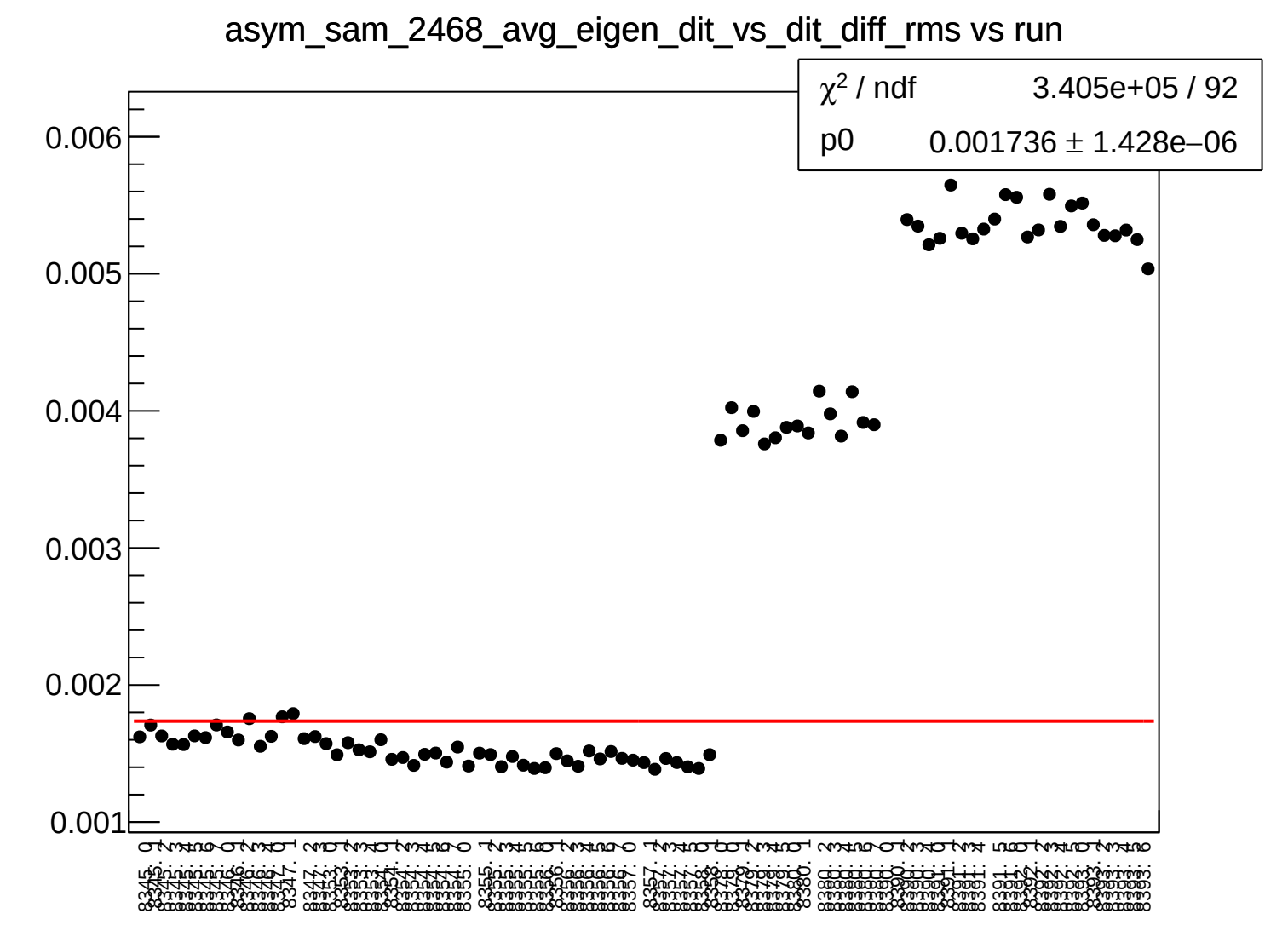

asym_sam_2468_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.4 / 92
p0 −0.1039 ± 0.04753
pull
Entries 93
Mean 115.1
Std Dev 0

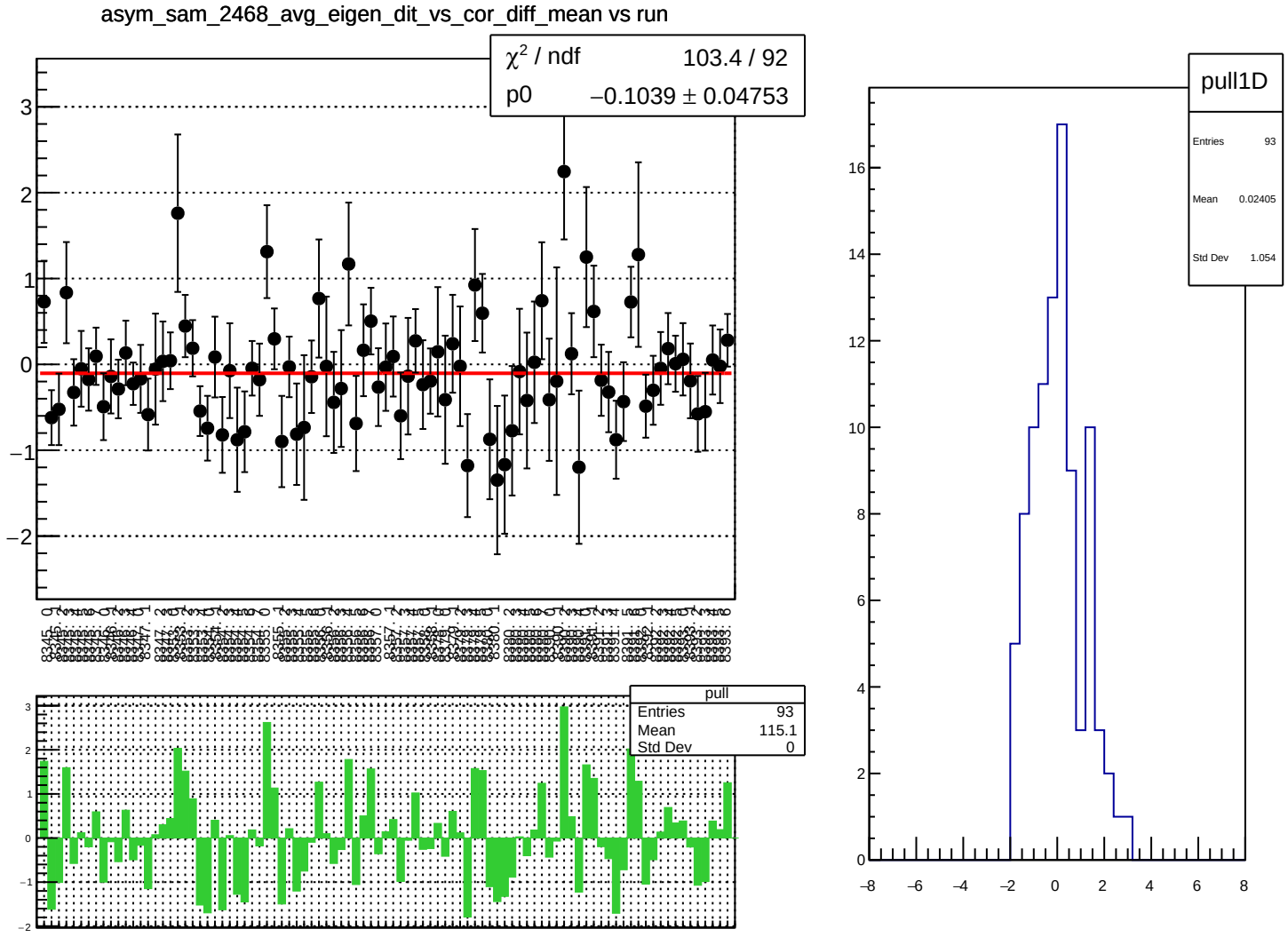

pull1D
Entries 93
Mean 0.02404
Std Dev 1.054

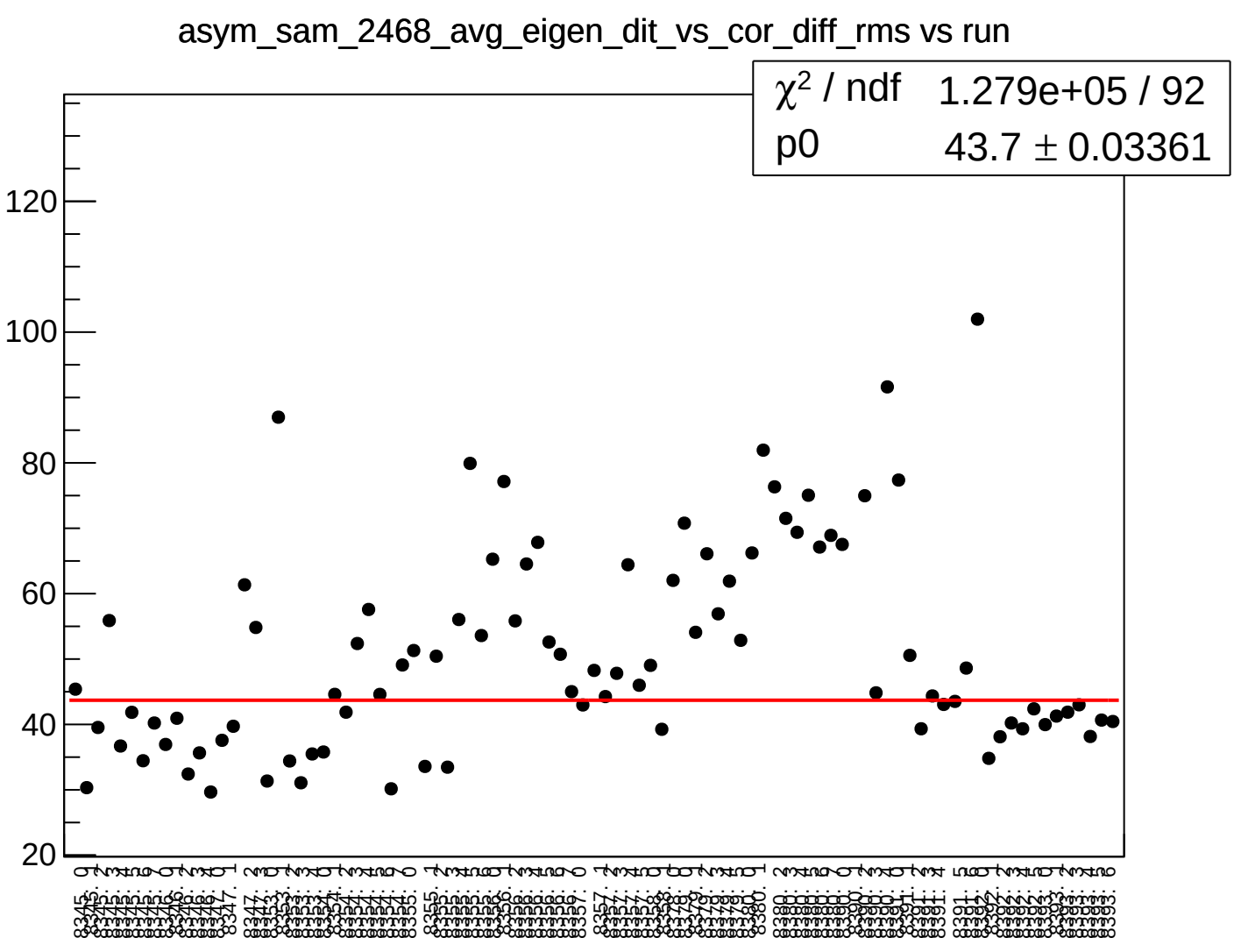

asym_sam_2468_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.279e+05 / 92
p0 43.7 ± 0.03361
120
100
80
60
40
20

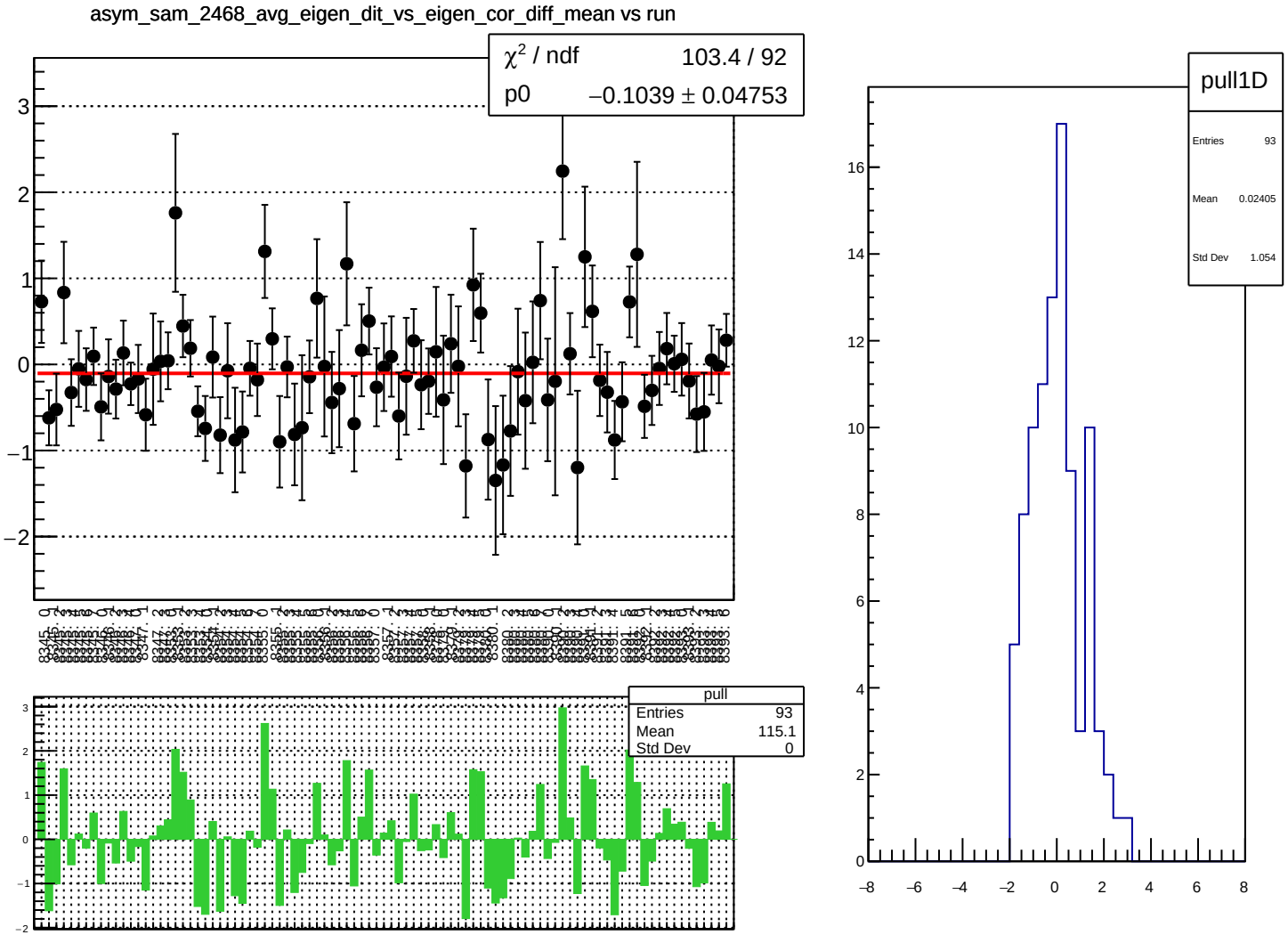

asym_sam_2468_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 120.5 / 92
p0 3.946e−06 ± 2.019e−06
pull
Entries 93
Mean 92.28
Std Dev 0

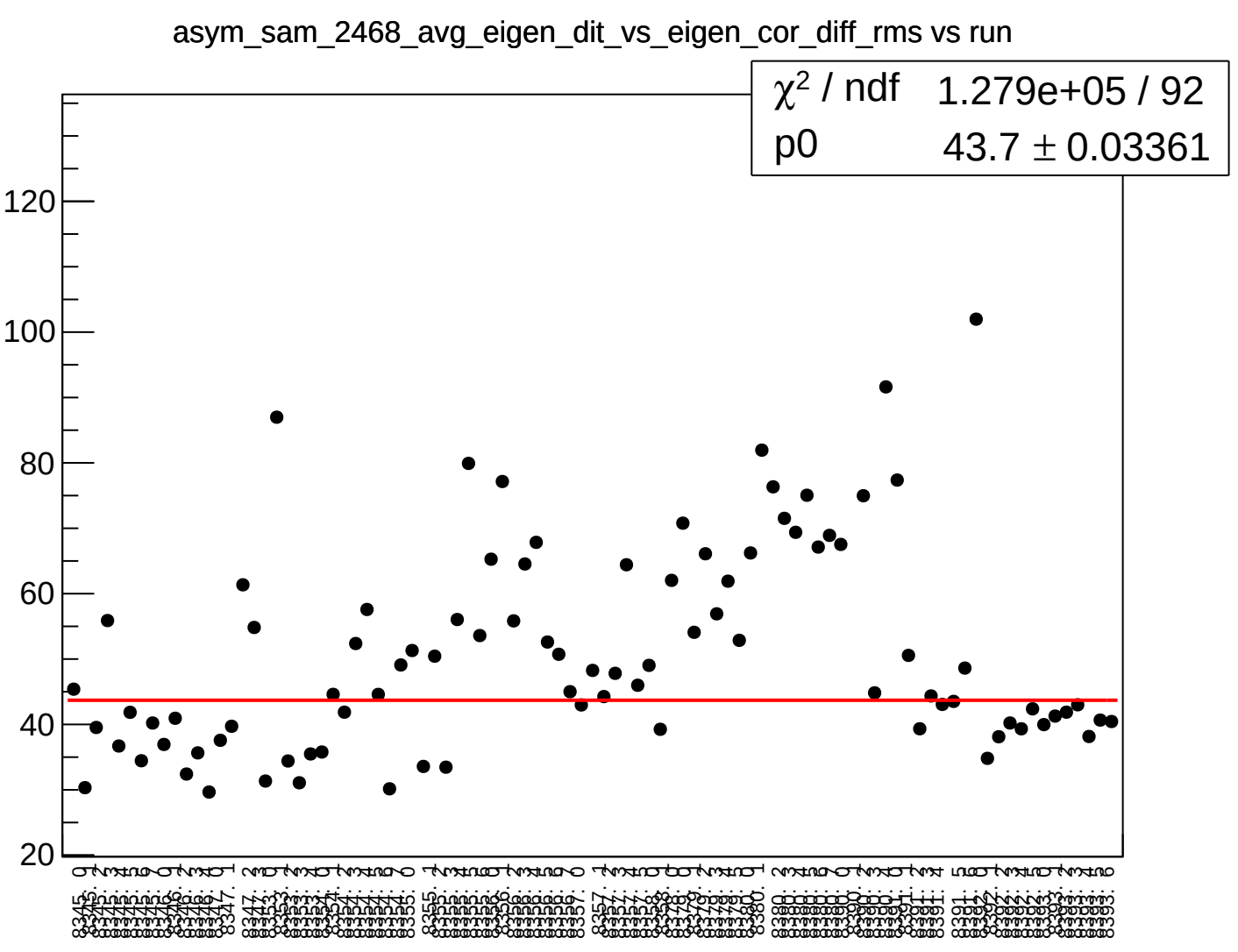

pull1D
Entries 93
Mean 0.1678
Std Dev 1.126

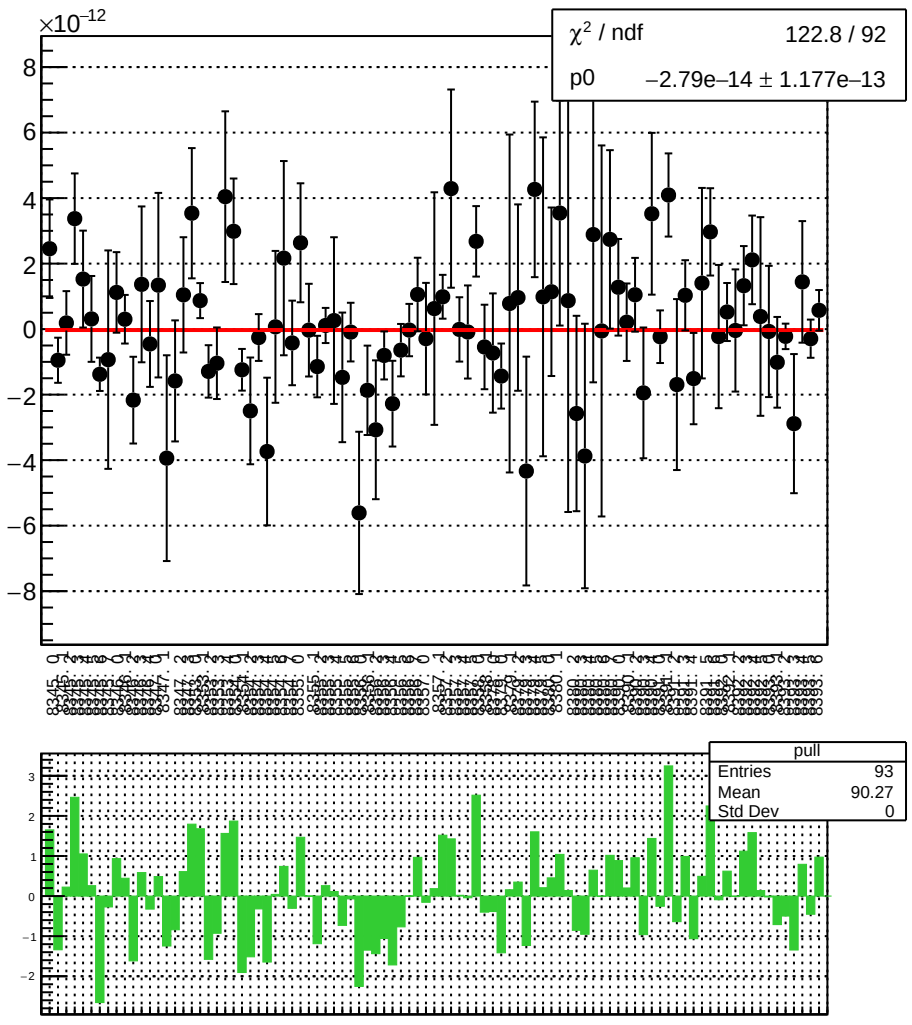

asym_sam_2468_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.405e+05 / 92
p0 0.001736 ± 1.428e−06
0.006
0.005
0.004
0.003
0.002
0.001

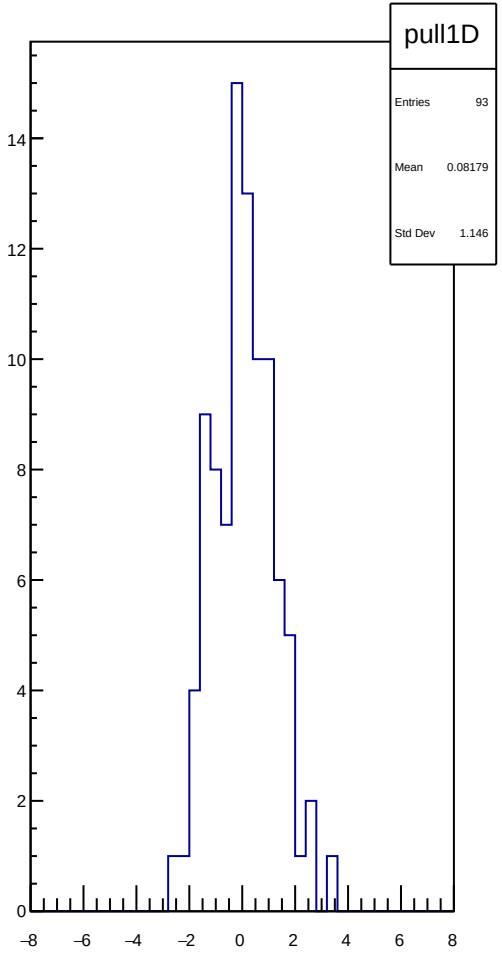

asym_sam_2468_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 103.4 / 92
p0 −0.1039 ± 0.04753
pull
Entries 93
Mean 115.1
Std Dev 0
pull1D
Entries 93
Mean 0.02405
Std Dev 1.054

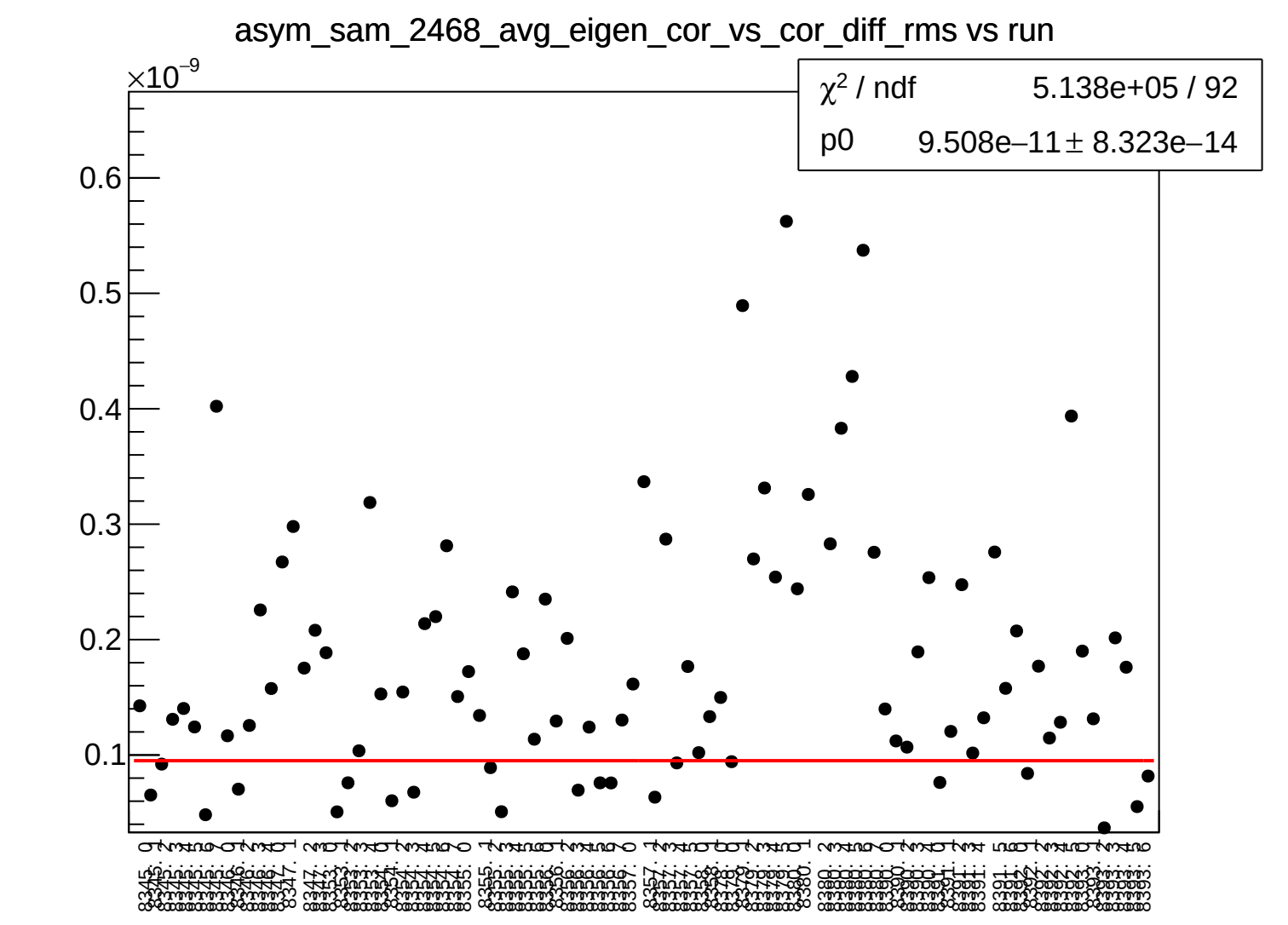

asym_sam_2468_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.279e+05 / 92
p0 43.7 ± 0.03361
120
100
80
60
40
20

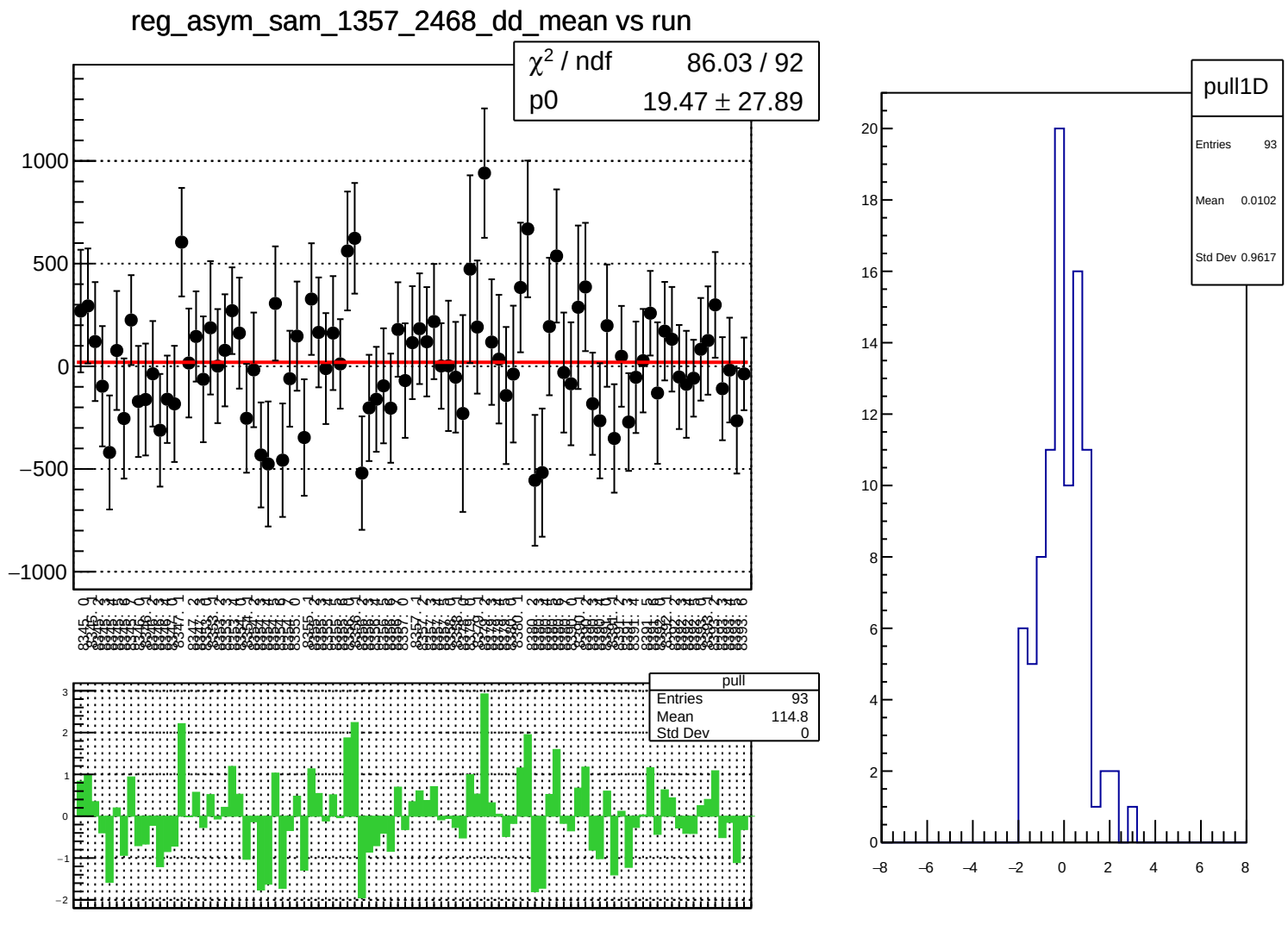

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.4 / 92
p0 −0.1039 ± 0.04753
pull
Entries 93
Mean 115.1
Std Dev 0
pull1D
Entries 93
Mean 0.02405
Std Dev 1.054

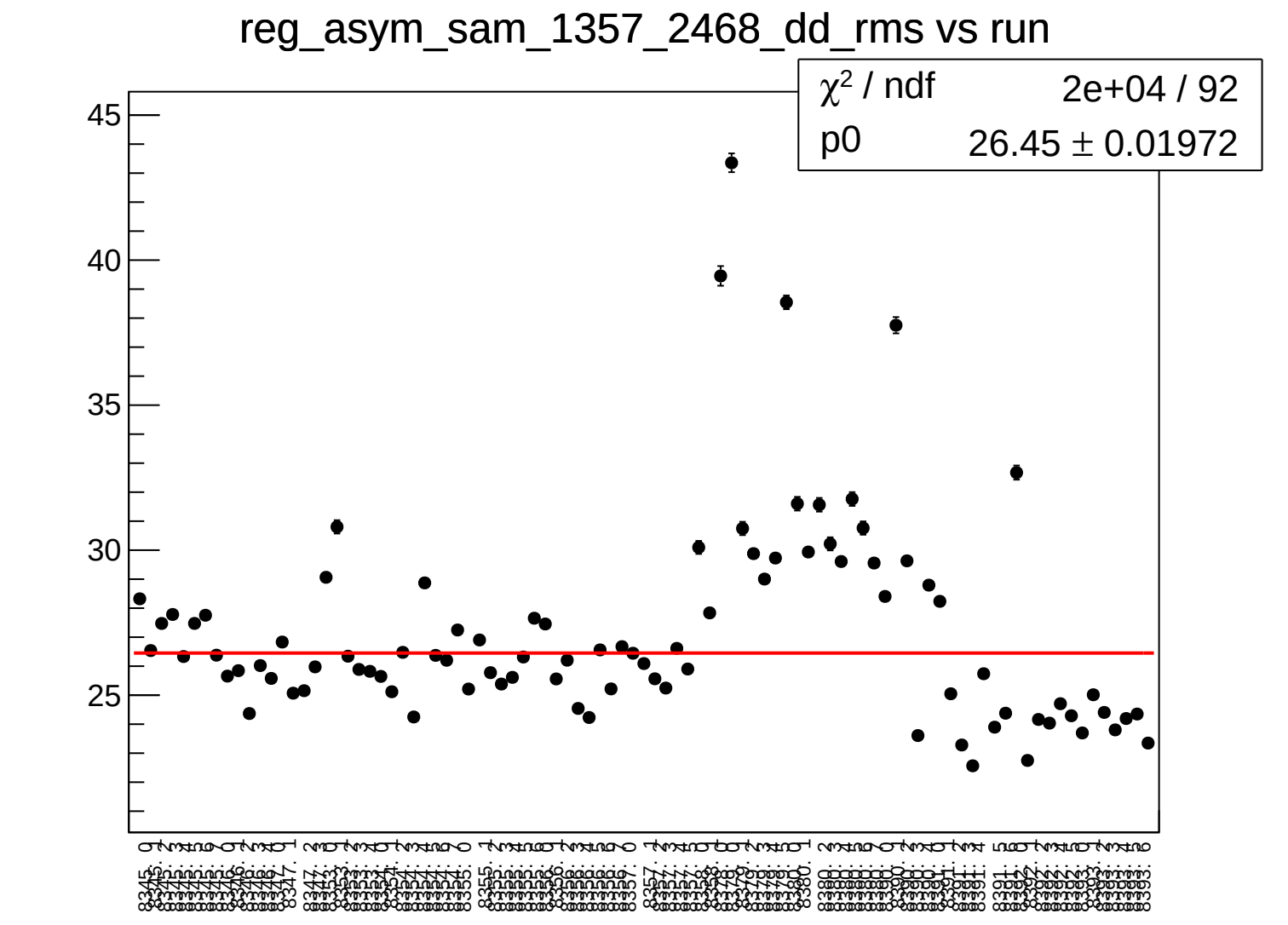

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.279e+05 / 92
p0 43.7 ± 0.03361
120
100
80
60
40
20

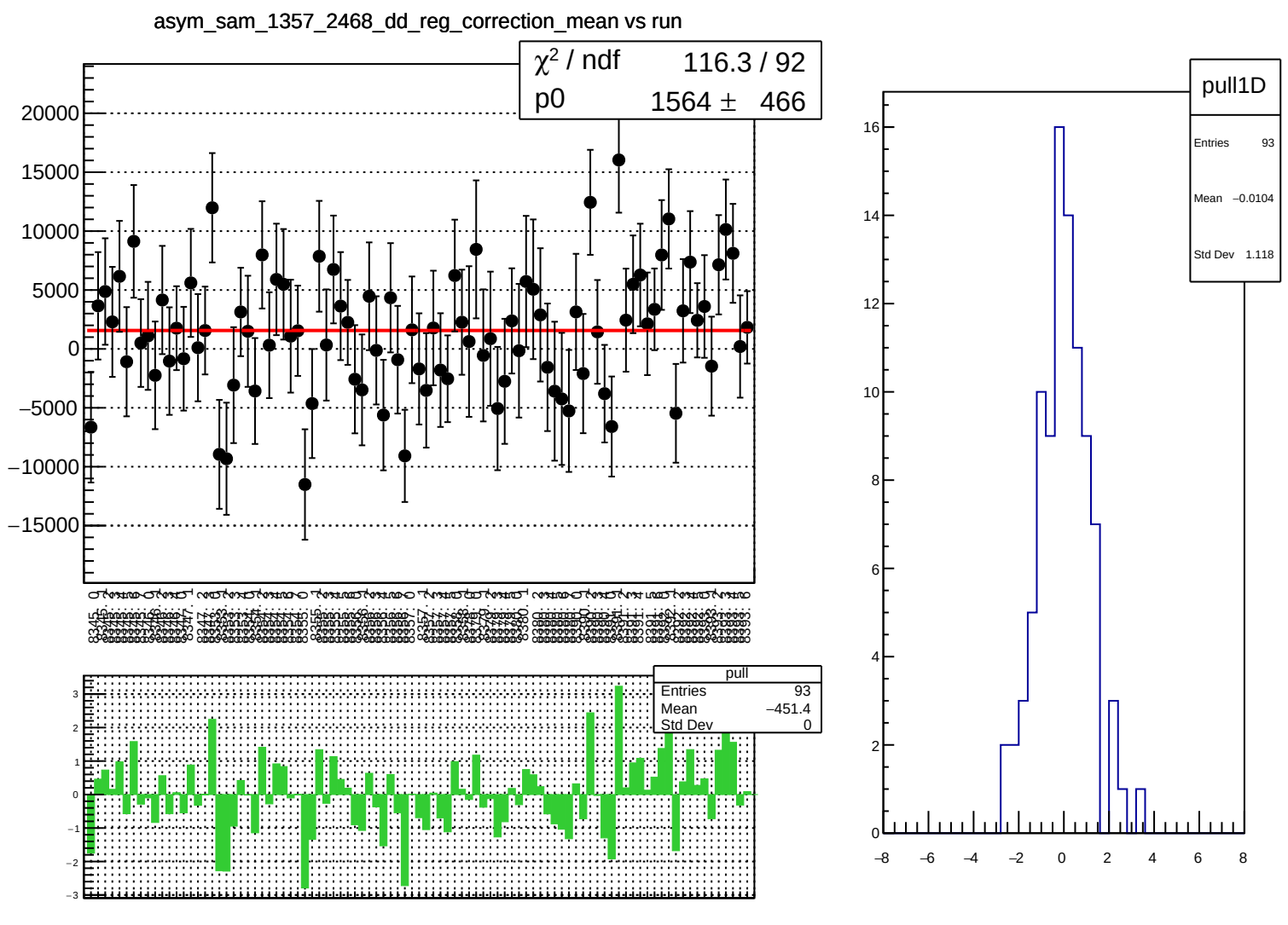

asym_sam_2468_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 122.8 / 92
p0 −2.79e−14 ± 1.177e−13
pull
Entries 93
Mean 90.27
Std Dev 0

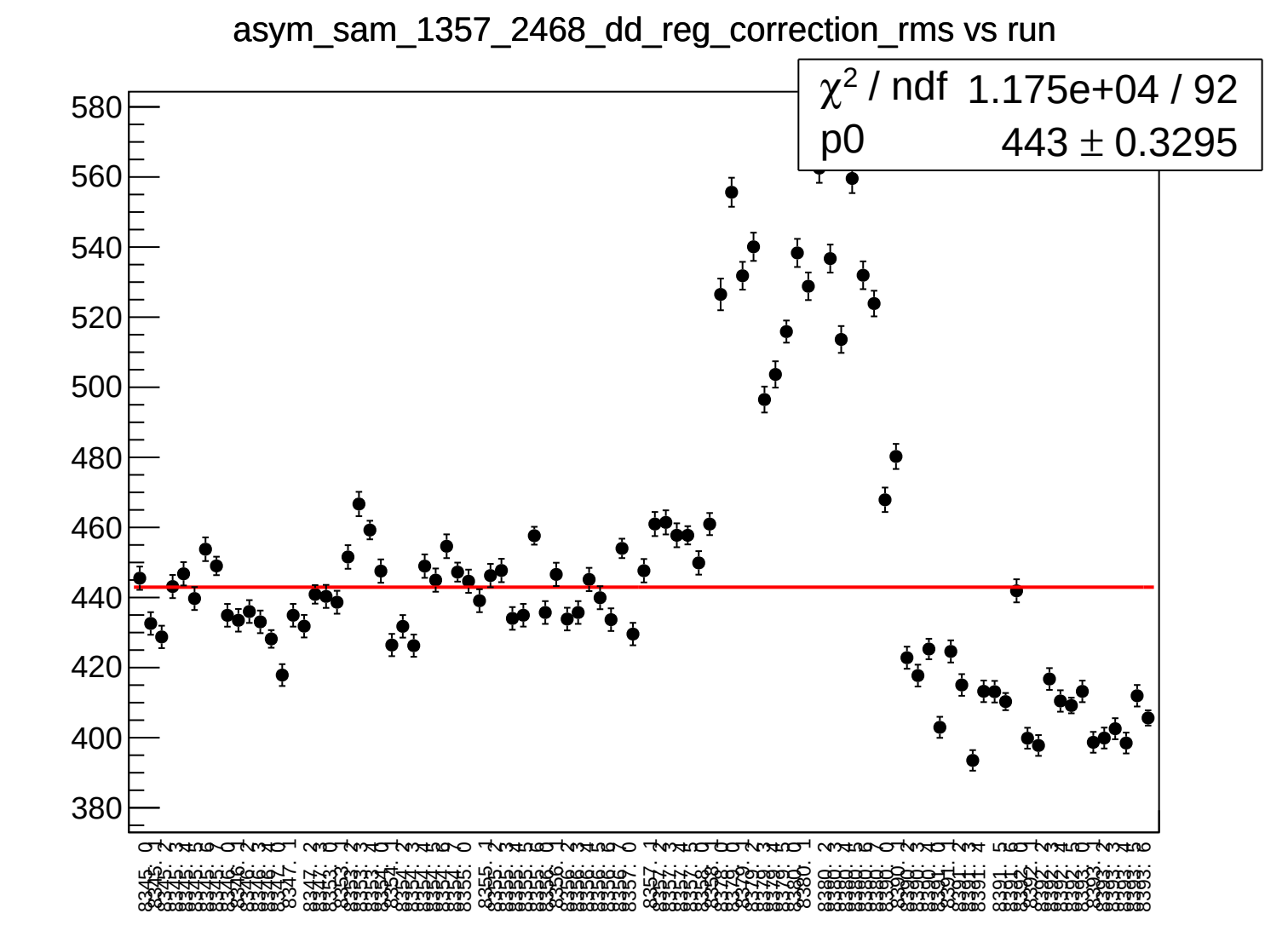

pull1D
Entries 93
Mean 0.08179
Std Dev 1.146

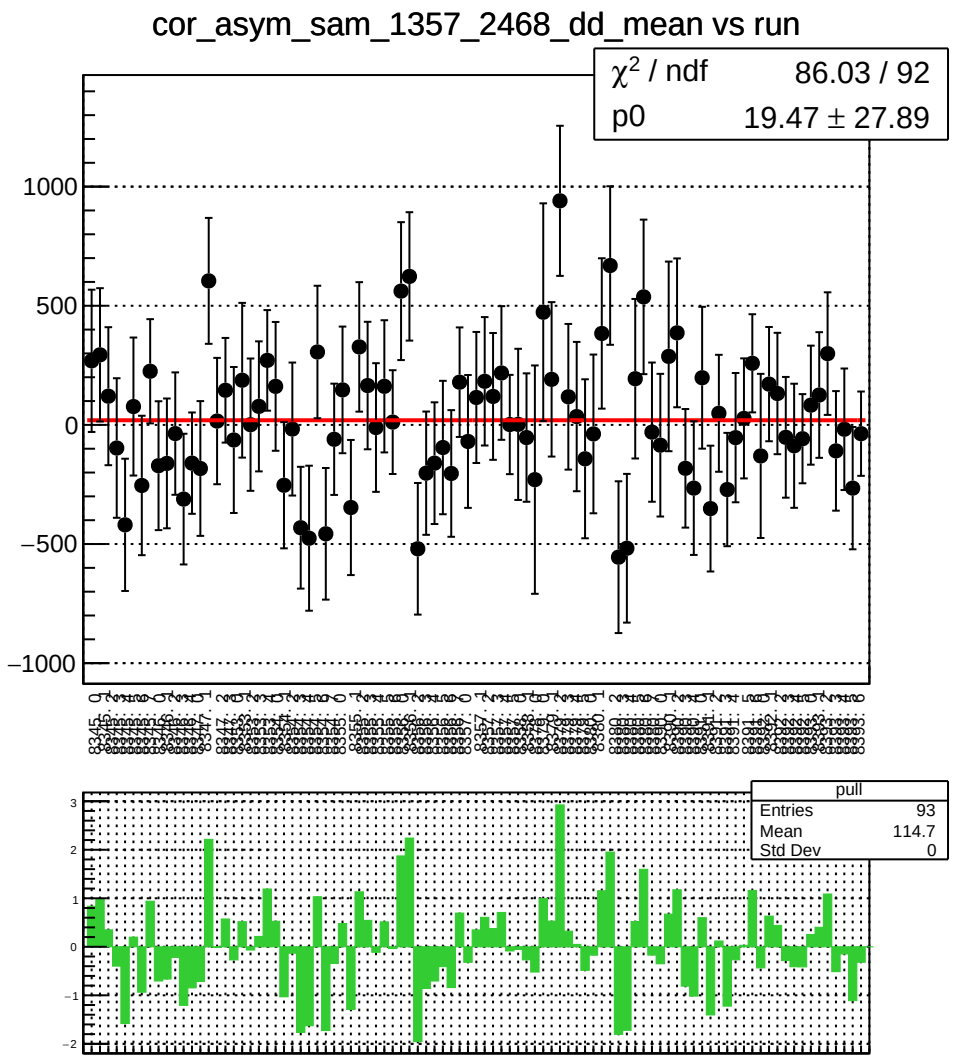

asym_sam_2468_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.138e+05 / 92
p0 9.508e−11 ± 8.323e−14
0.6
0.5
0.4
0.3
0.2
0.1

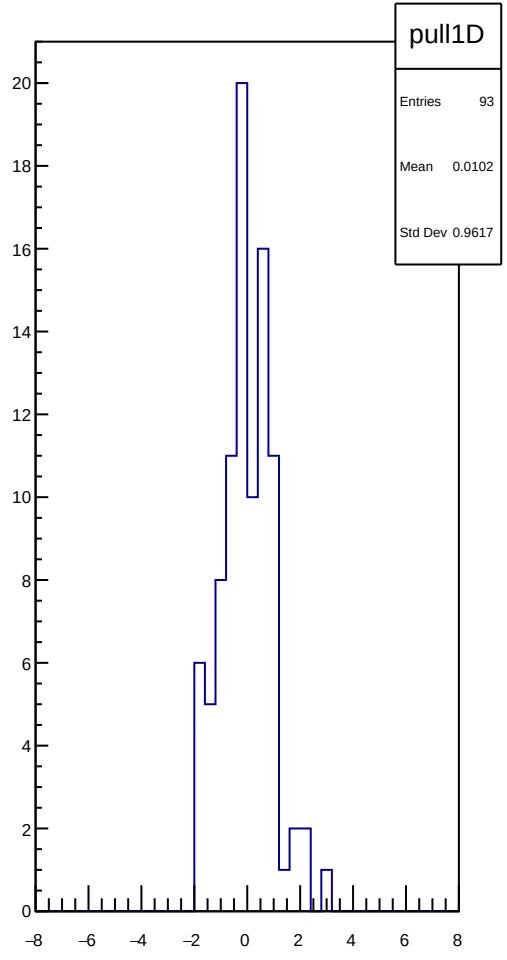

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 86.03 / 92
p0 19.47 ± 27.89
1000
500
0
−500
−1000
pull
Entries 93
Mean 114.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.0102
Std Dev 0.9617
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

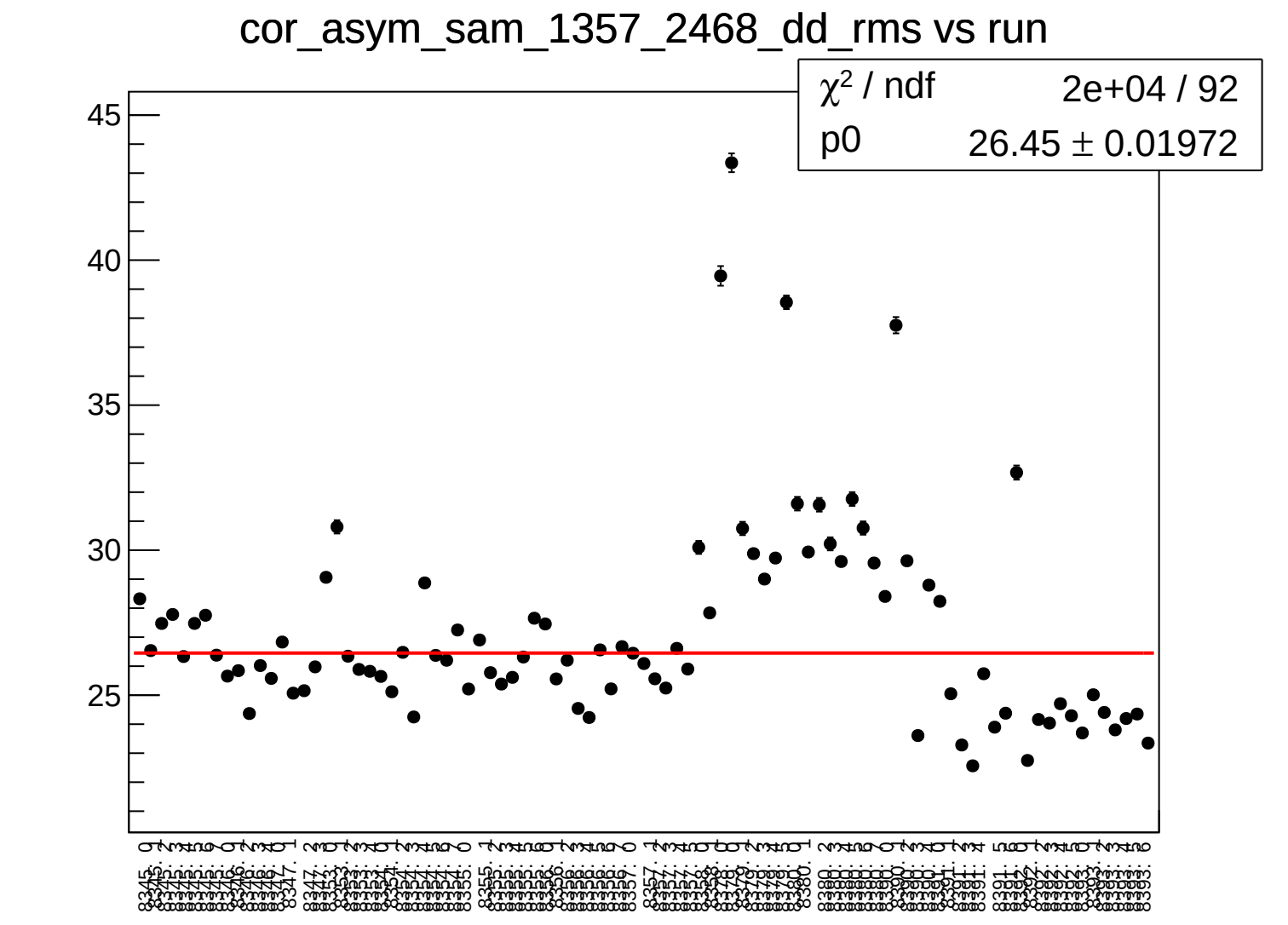

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2e+04 / 92
p0 26.45 ± 0.01972
45
40
35
30
25

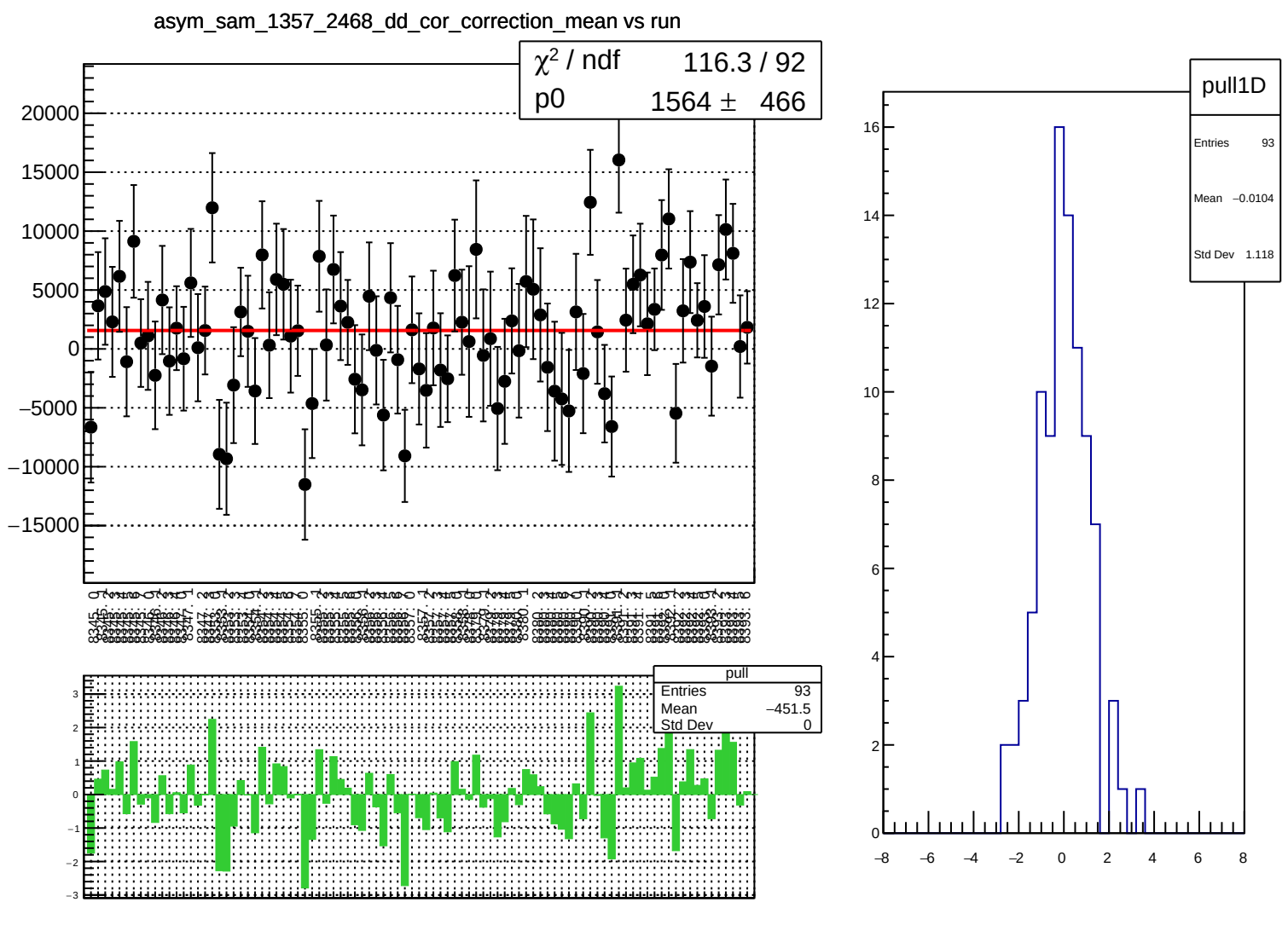

asym_sam_1357_2468_dd_reg_correction_mean vs run
χ² / ndf 116.3 / 92
p0 1564 ± 466
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −451.4
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.0104
Std Dev 1.118
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

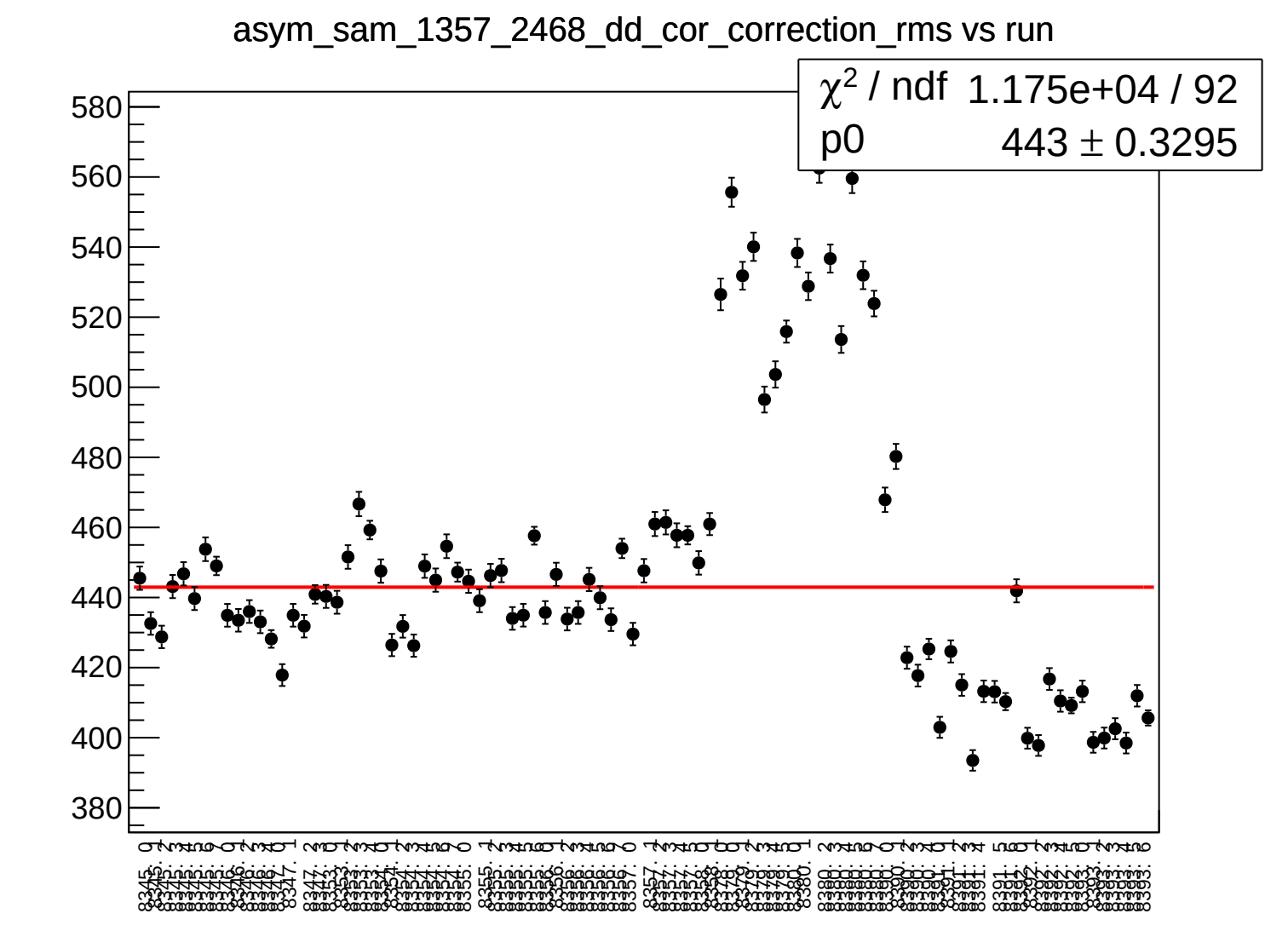

asym_sam_1357_2468_dd_reg_correction_rms vs run
χ² / ndf 1.175e+04 / 92
p0 443 ± 0.3295
580
560
540
520
500
480
460
440
420
400
380

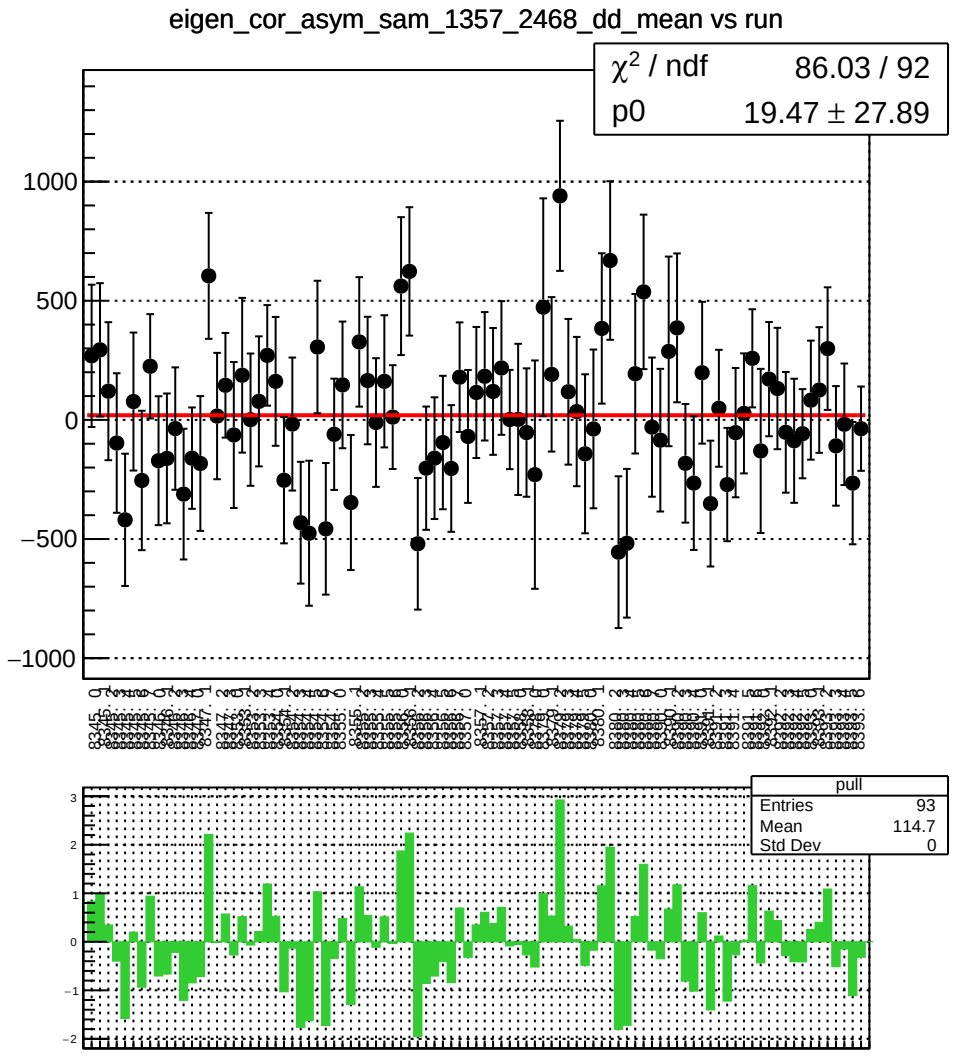

cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 86.03 / 92
p0 19.47 ± 27.89
1000
500
0
−500
−1000
pull
Entries 93
Mean 114.7
Std Dev 0
3
2
1
0
−1
−2

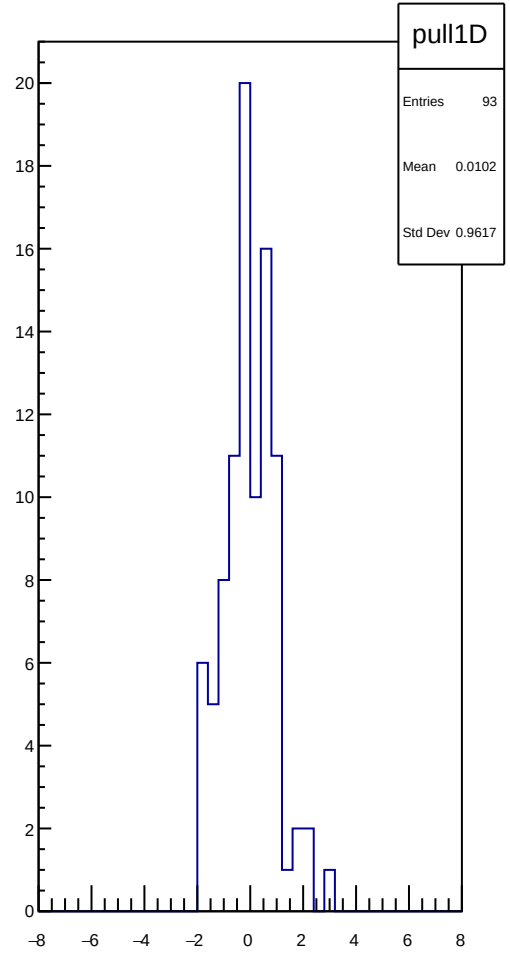

pull1D
Entries 93
Mean 0.0102
Std Dev 0.9617
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

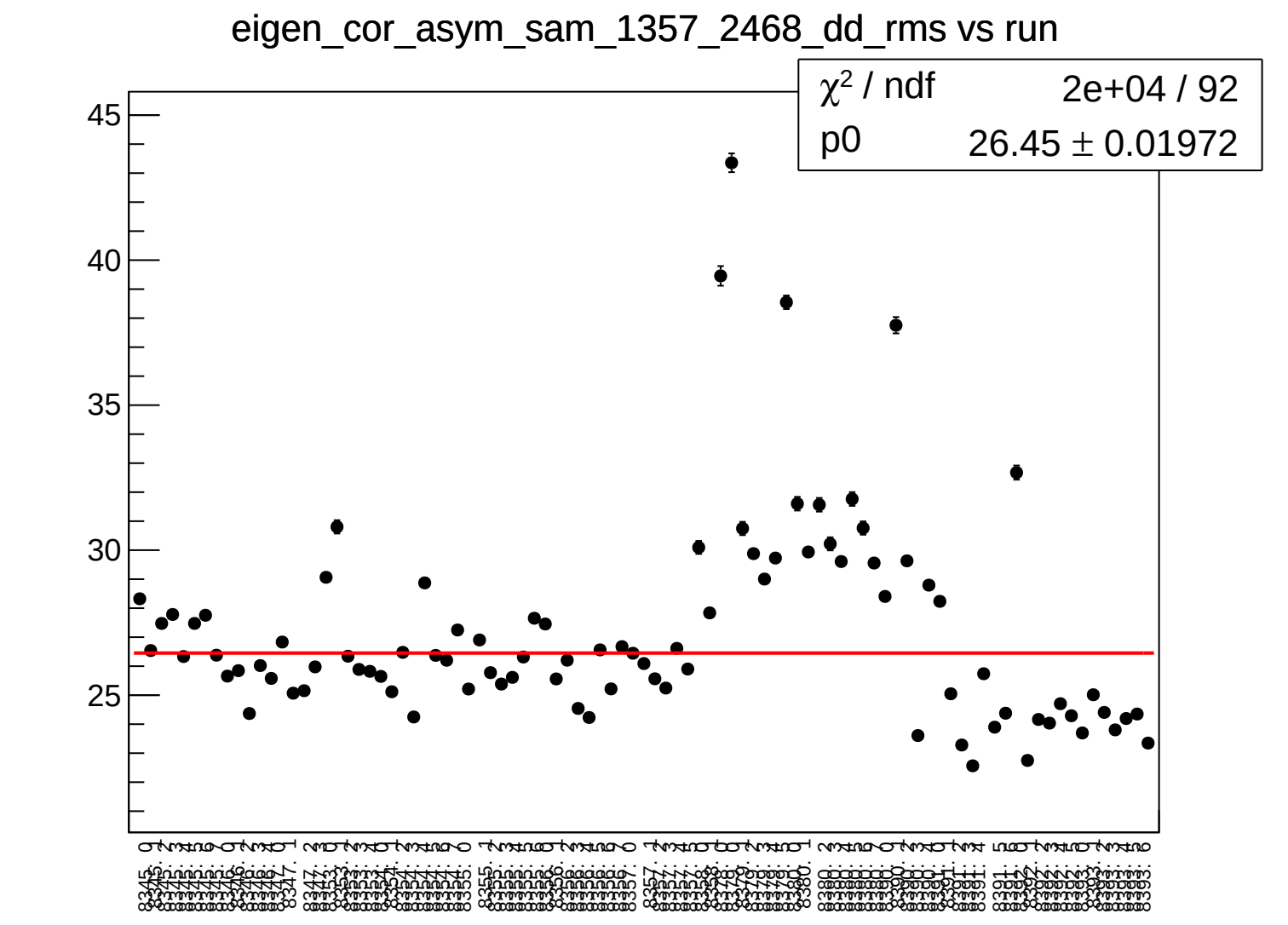

cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2e+04 / 92
p0 26.45 ± 0.01972
45
40
35
30
25

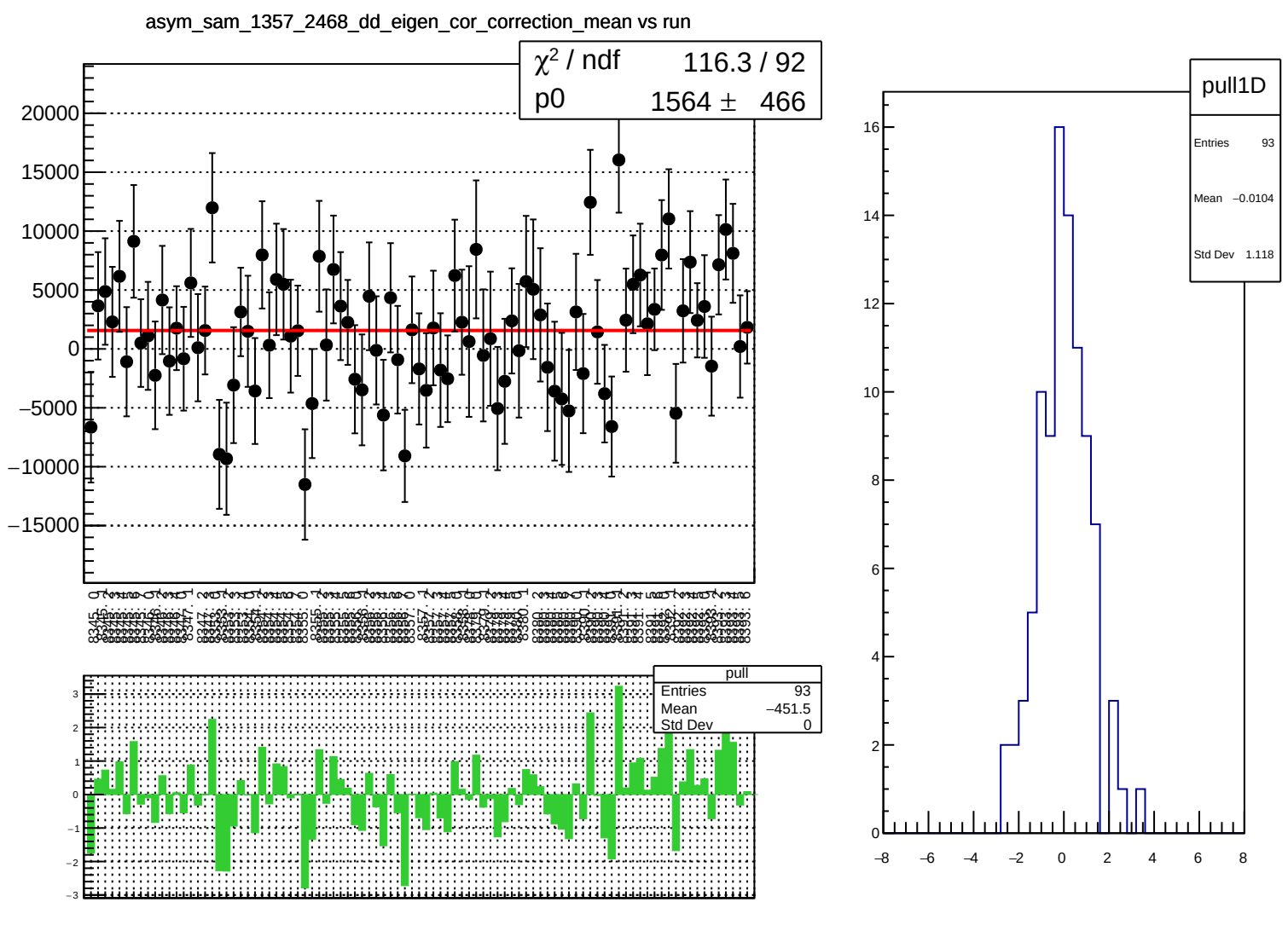

asym_sam_1357_2468_dd_cor_correction_mean vs run
χ² / ndf 116.3 / 92
p0 1564 ± 466
pull
Entries 93
Mean −451.5
Std Dev 0
pull1D
Entries 93
Mean −0.0104
Std Dev 1.118

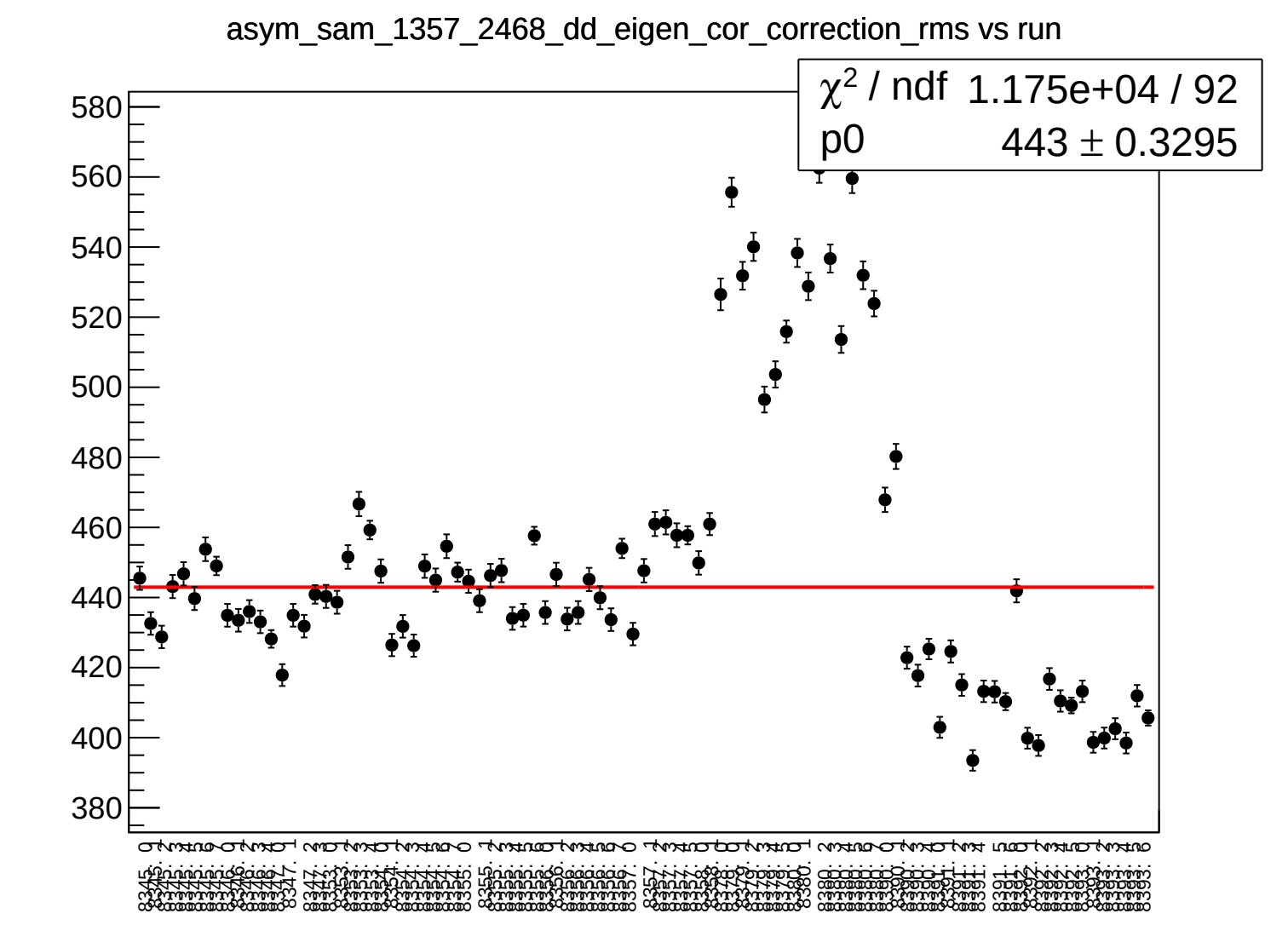

asym_sam_1357_2468_dd_cor_correction_rms vs run
χ² / ndf 1.175e+04 / 92
p0 443 ± 0.3295
580
560
540
520
500
480
460
440
420
400
380

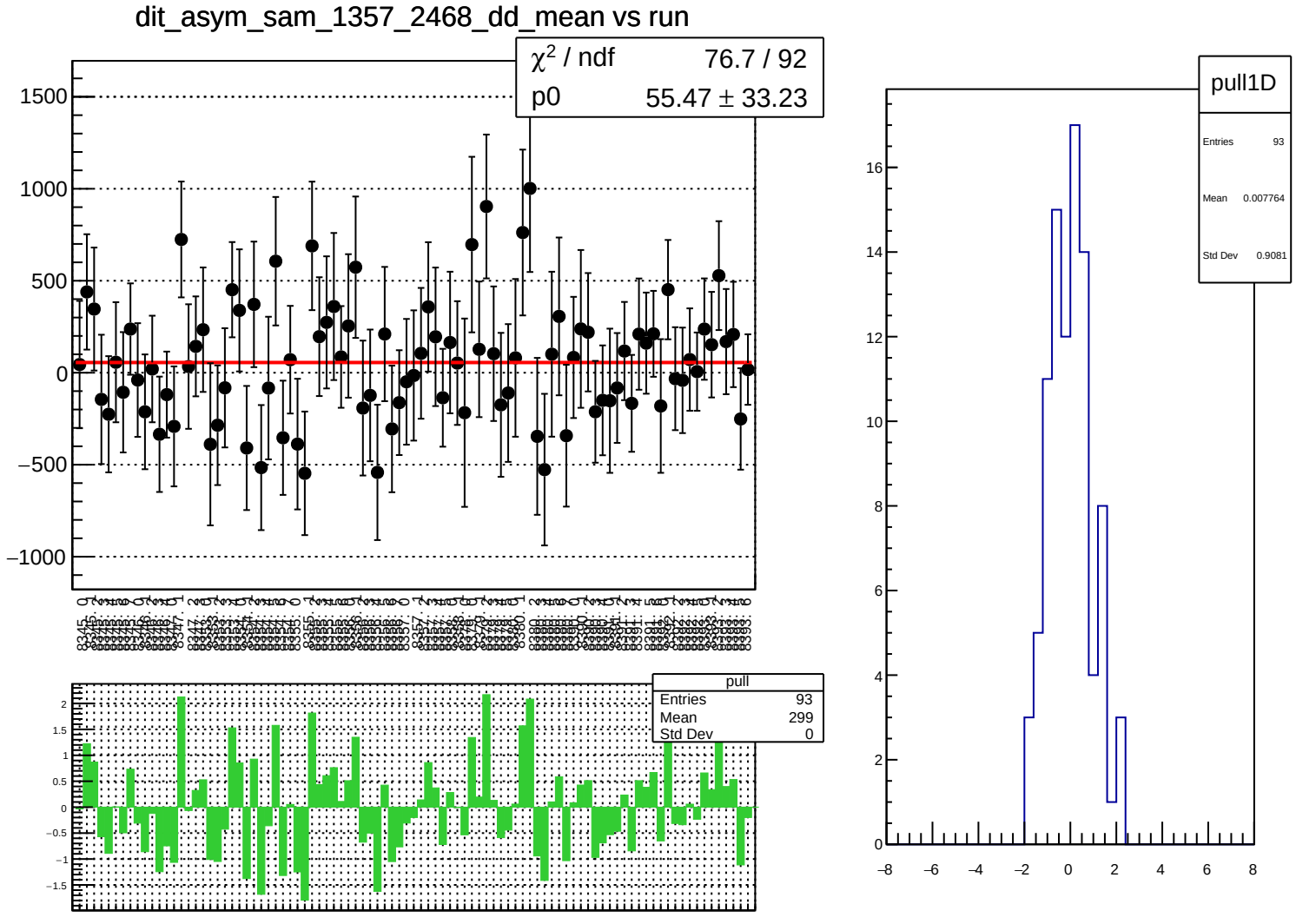

eigen_cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 86.03 / 92
p0 19.47 ± 27.89
1000
500
0
−500
−1000
pull
Entries 93
Mean 114.7
Std Dev 0
3
2
1
0
−1
−2

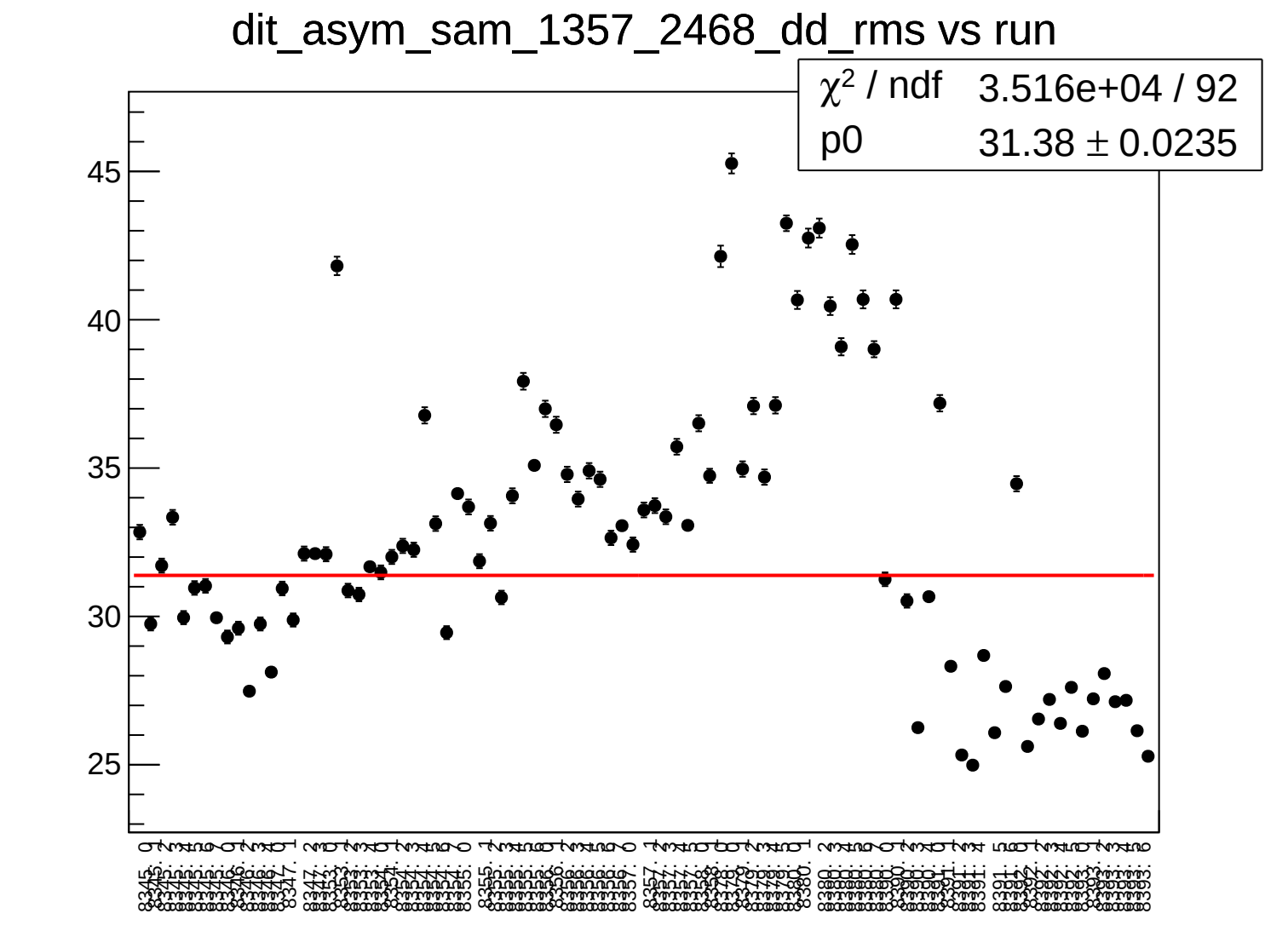

pull1D
Entries 93
Mean 0.0102
Std Dev 0.9617
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

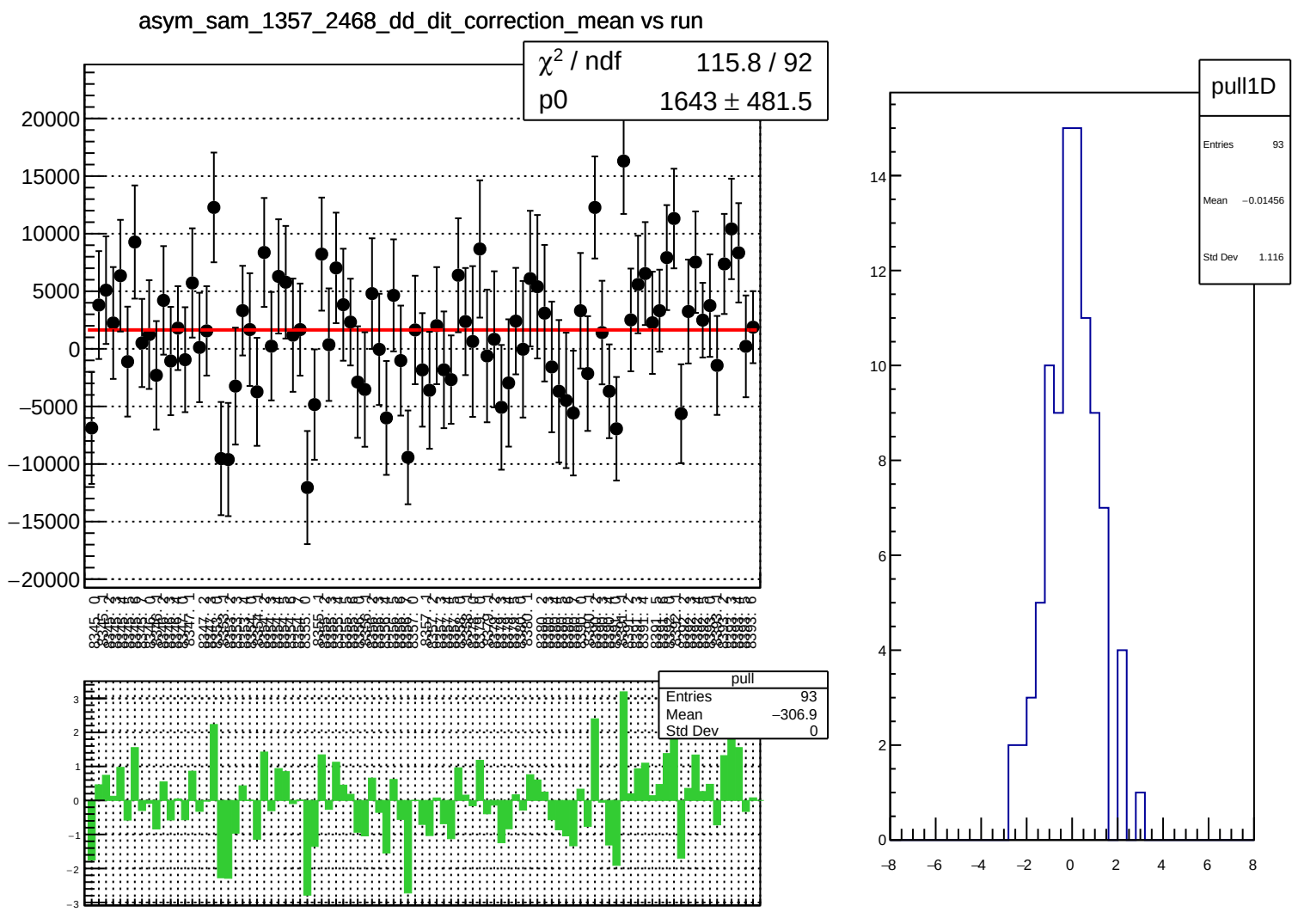

eigen_cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2e+04 / 92
p0 26.45 ± 0.01972
45
40
35
30
25

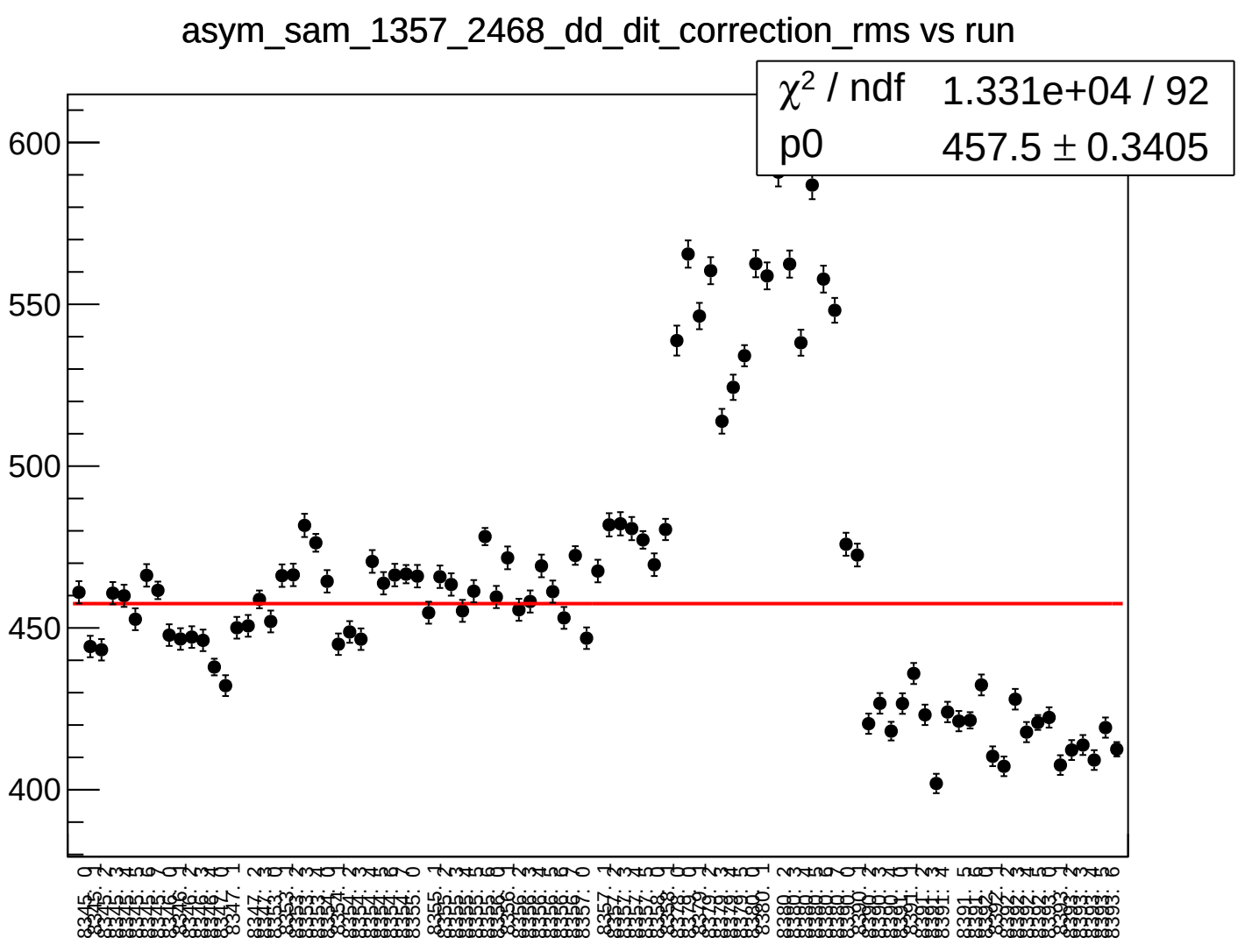

asym_sam_1357_2468_dd_eigen_cor_correction_mean vs run
χ² / ndf 116.3 / 92
p0 1564 ± 466
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −451.5
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.0104
Std Dev 1.118
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

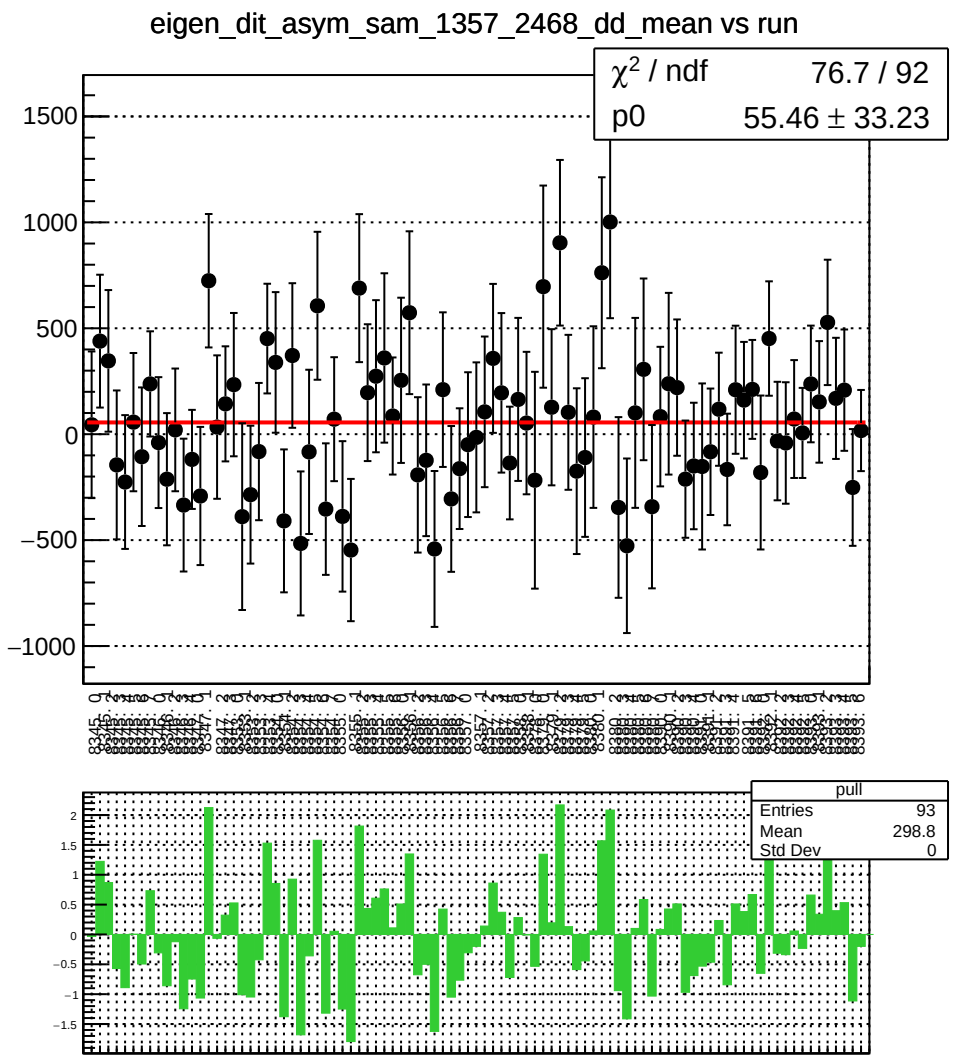

asym_sam_1357_2468_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.175e+04 / 92
p0 443 ± 0.3295
580
560
540
520
500
480
460
440
420
400
380

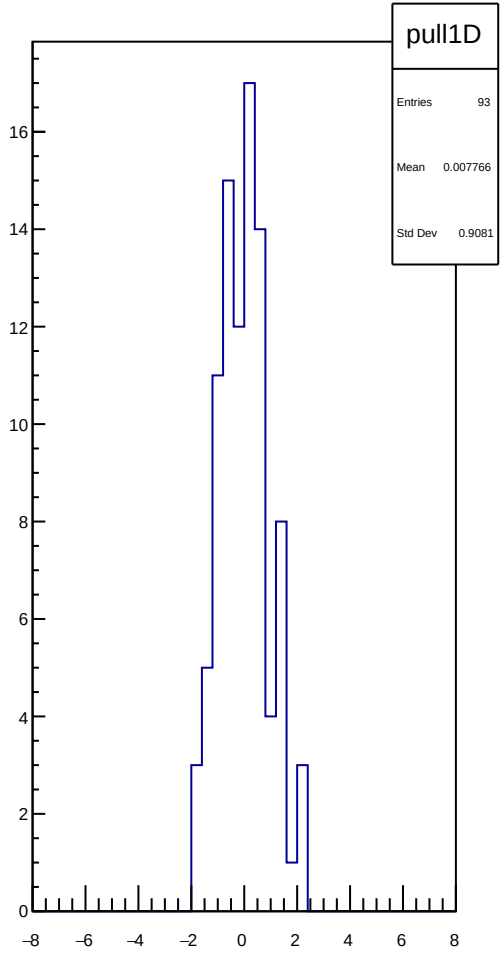

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 76.7 / 92
p0 55.47 ± 33.23
1500
1000
500
0
−500
−1000
pull
Entries 93
Mean 299
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean 0.007764
Std Dev 0.9081
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

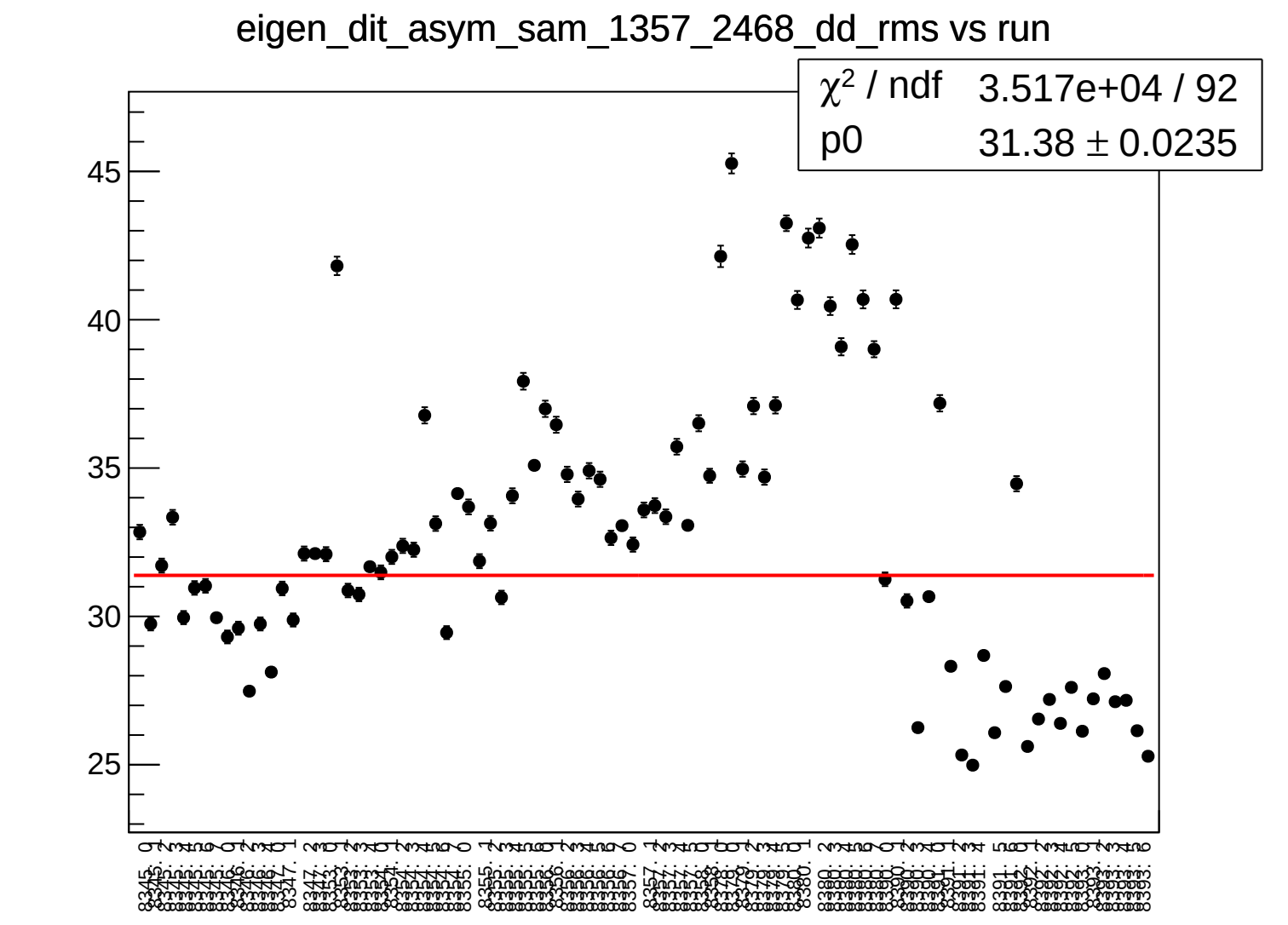

dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 3.516e+04 / 92
p0 31.38 ± 0.0235
45
40
35
30
25

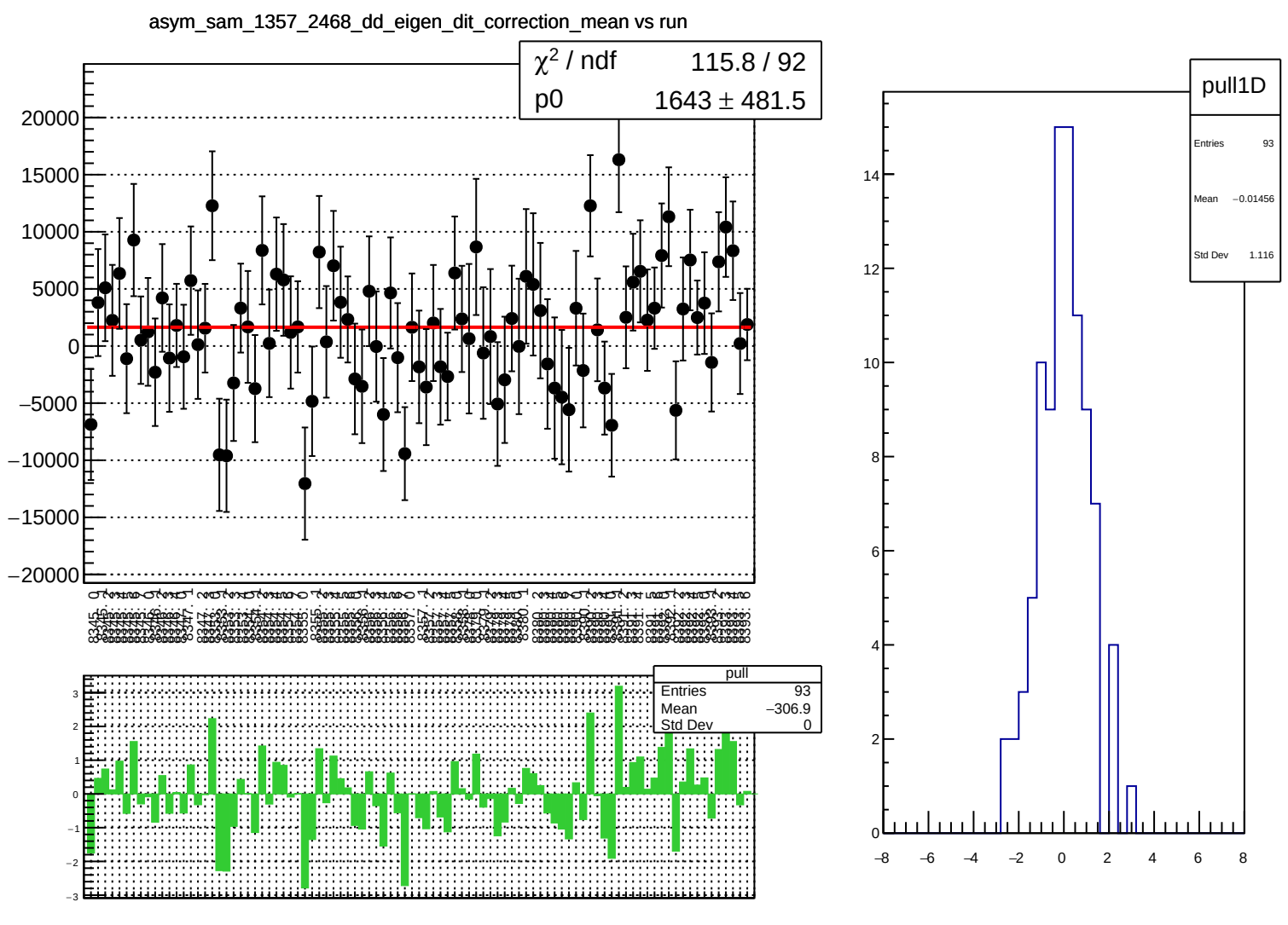

asym_sam_1357_2468_dd_dit_correction_mean vs run
χ² / ndf 115.8 / 92
p0 1643 ± 481.5
pull
Entries 93
Mean −306.9
Std Dev 0
pull1D
Entries 93
Mean −0.01456
Std Dev 1.116

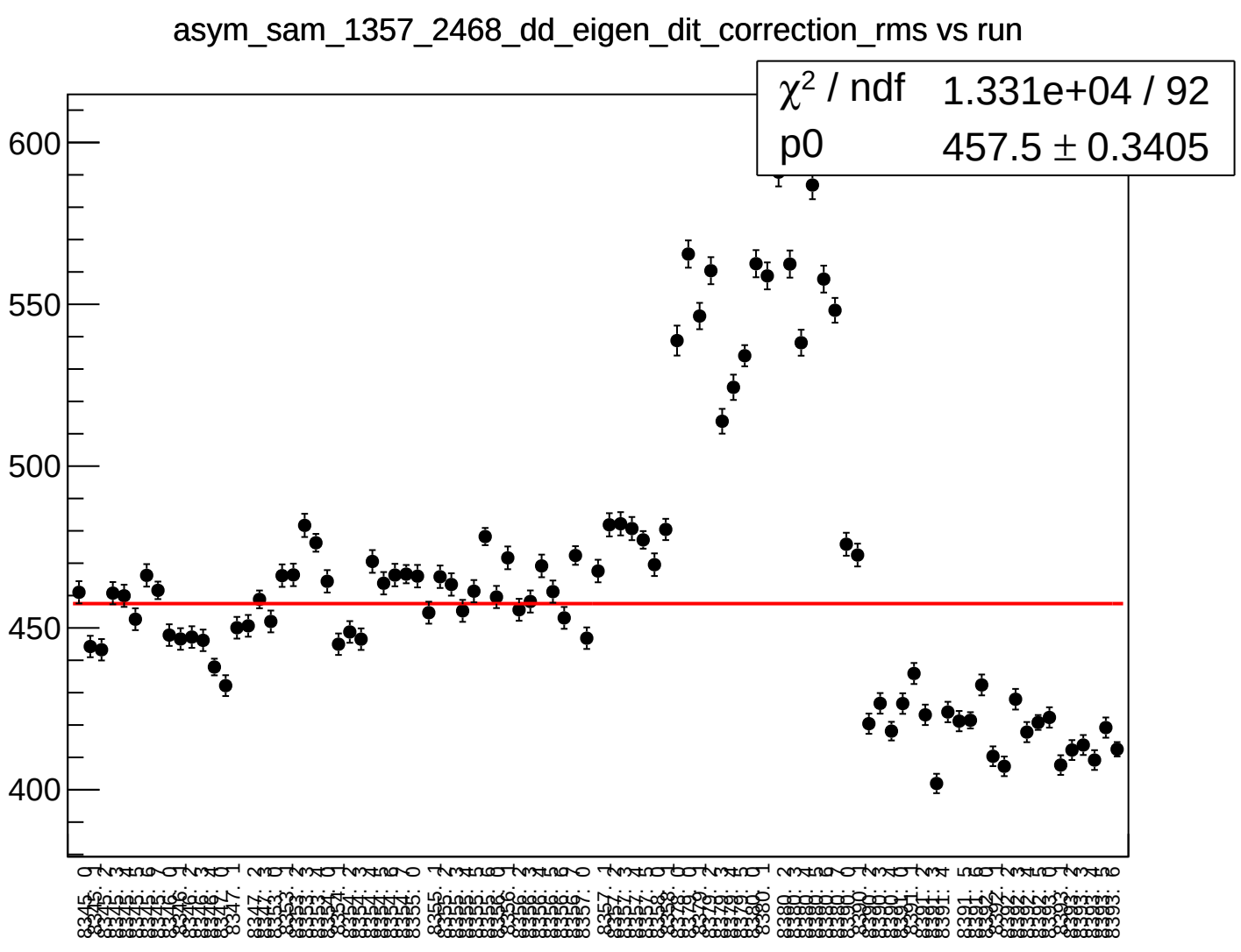

asym_sam_1357_2468_dd_dit_correction_rms vs run
χ² / ndf 1.331e+04 / 92
p0 457.5 ± 0.3405
600
550
500
450
400

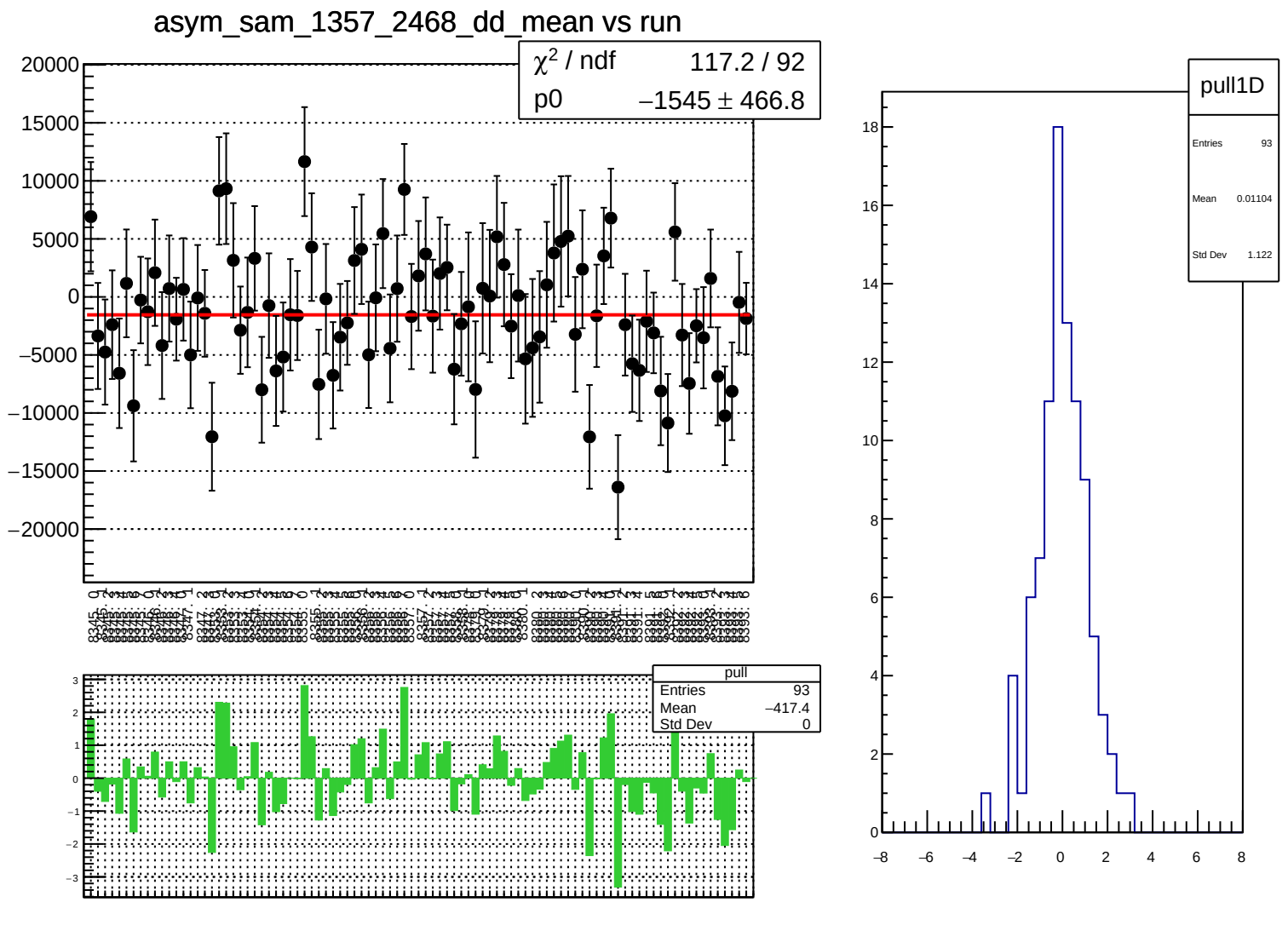

eigen_dit_asym_sam_1357_2468_dd_mean vs run
χ^2 / ndf 76.7 / 92
p0 55.46 ± 33.23
1500
1000
500
0
−500
−1000
pull
Entries 93
Mean 298.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

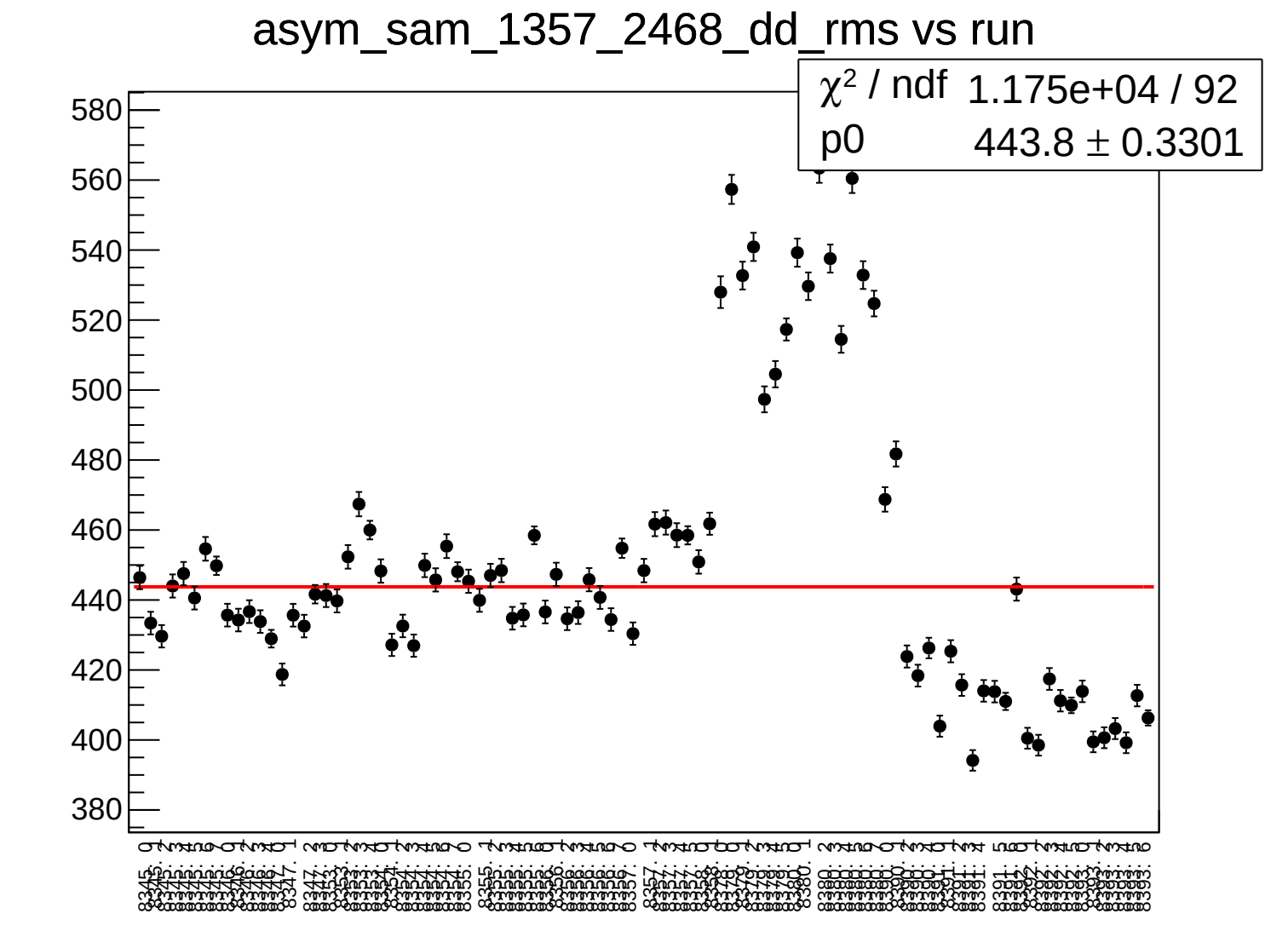

pull1D
Entries 93
Mean 0.007766
Std Dev 0.9081
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

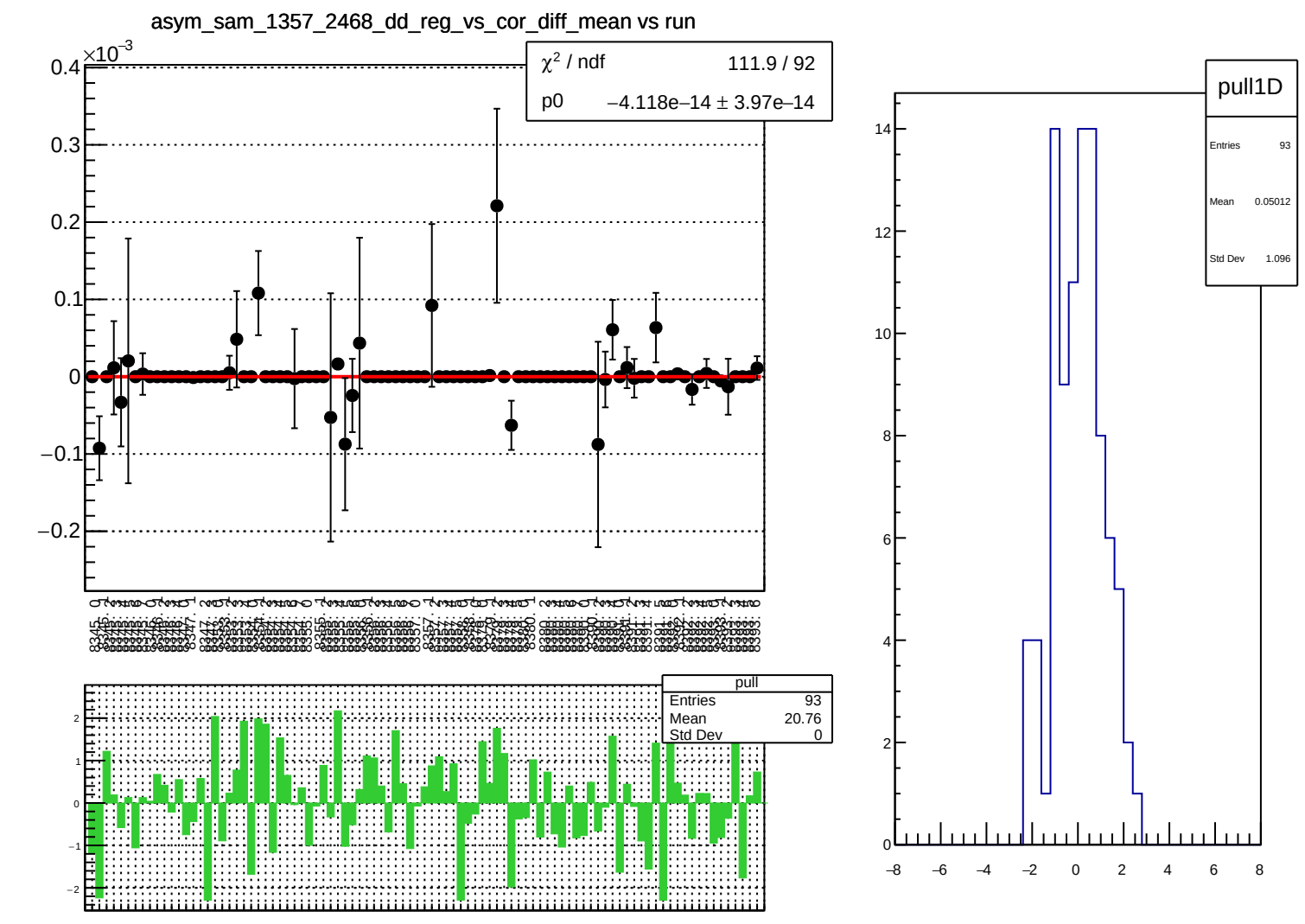

eigen_dit_asym_sam_1357_2468_dd_rms vs run
χ^2 / ndf 3.517e+04 / 92
p0 31.38 ± 0.0235
45
40
35
30
25

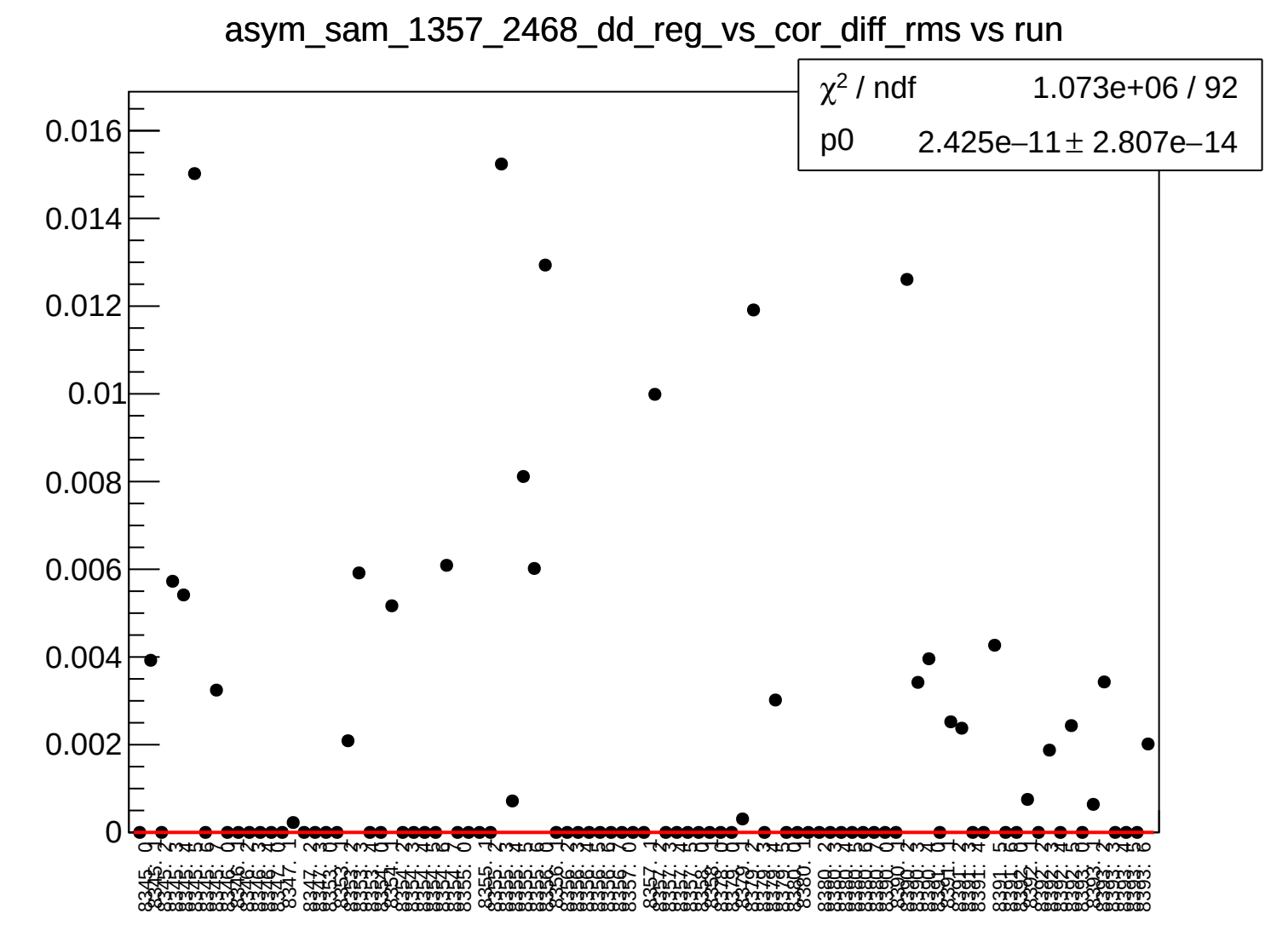

asym_sam_1357_2468_dd_eigen_dit_correction_mean vs run
χ² / ndf 115.8 / 92
p0 1643 ± 481.5
pull
Entries 93
Mean −306.9
Std Dev 0
pull1D
Entries 93
Mean −0.01456
Std Dev 1.116

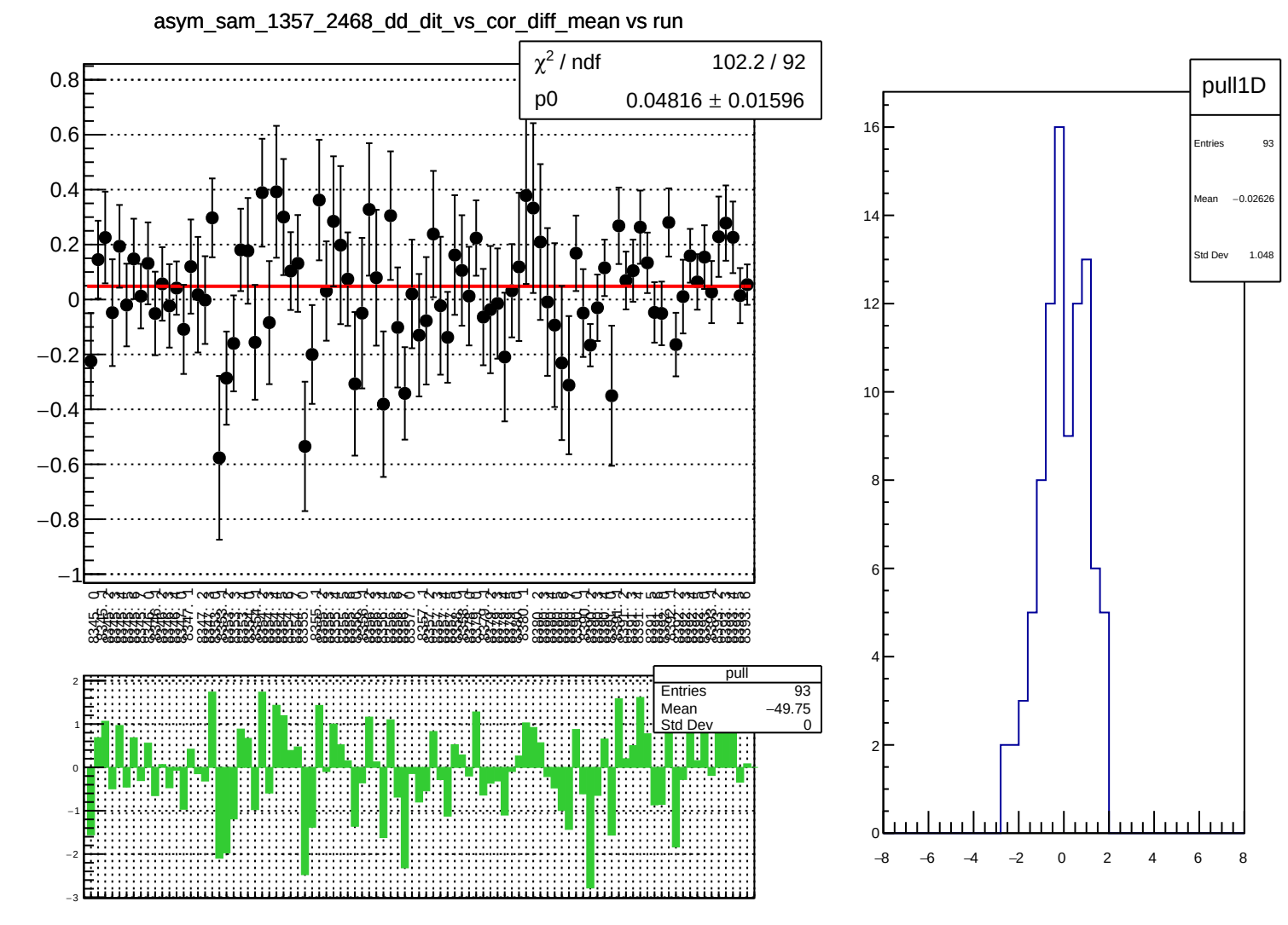

asym_sam_1357_2468_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.331e+04 / 92
p0 457.5 ± 0.3405
600
550
500
450
400

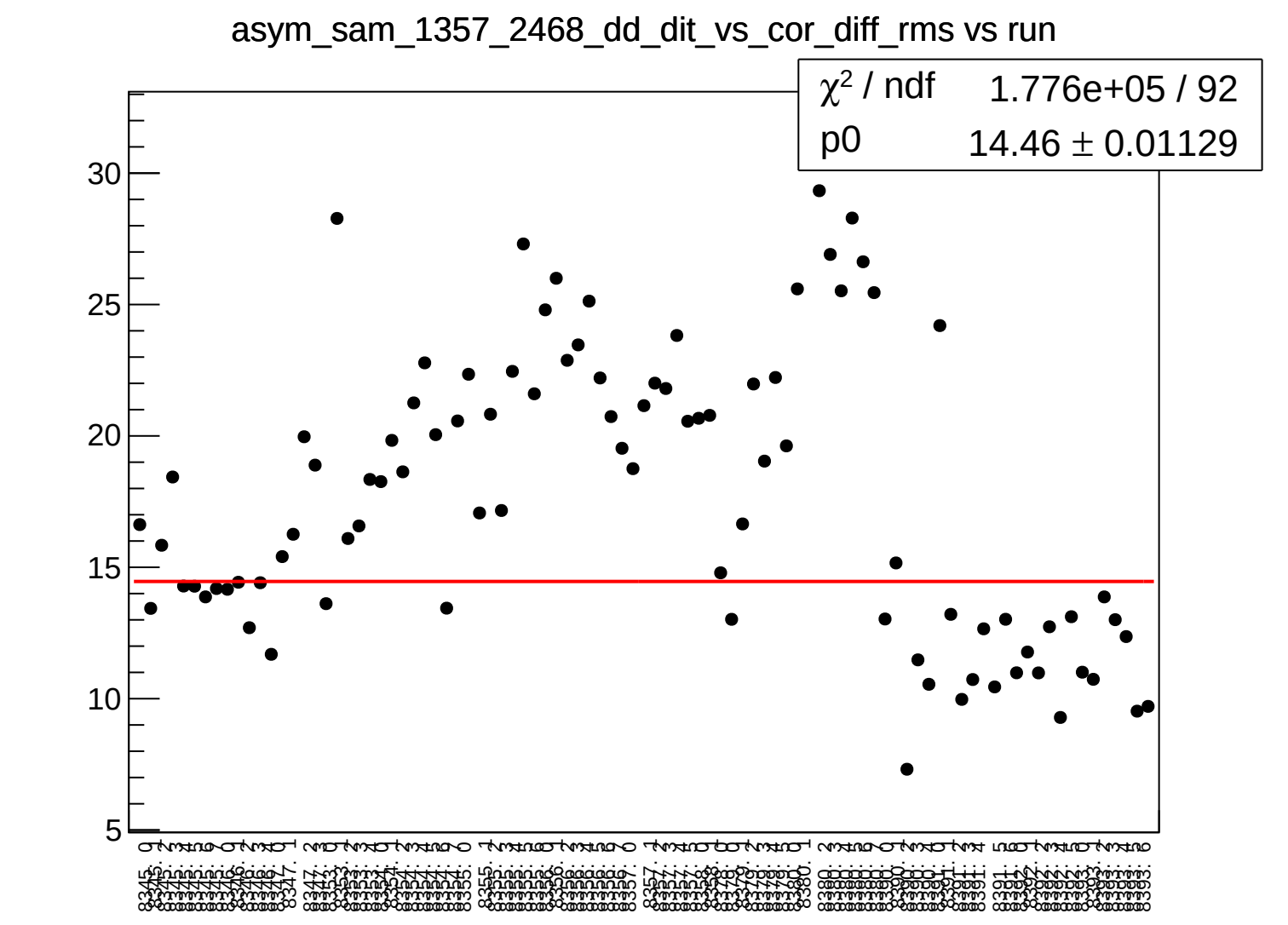

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 117.2 / 92
p0 −1545 ± 466.8
pull
Entries 93
Mean −417.4
Std Dev 0
pull1D
Entries 93
Mean 0.01104
Std Dev 1.122

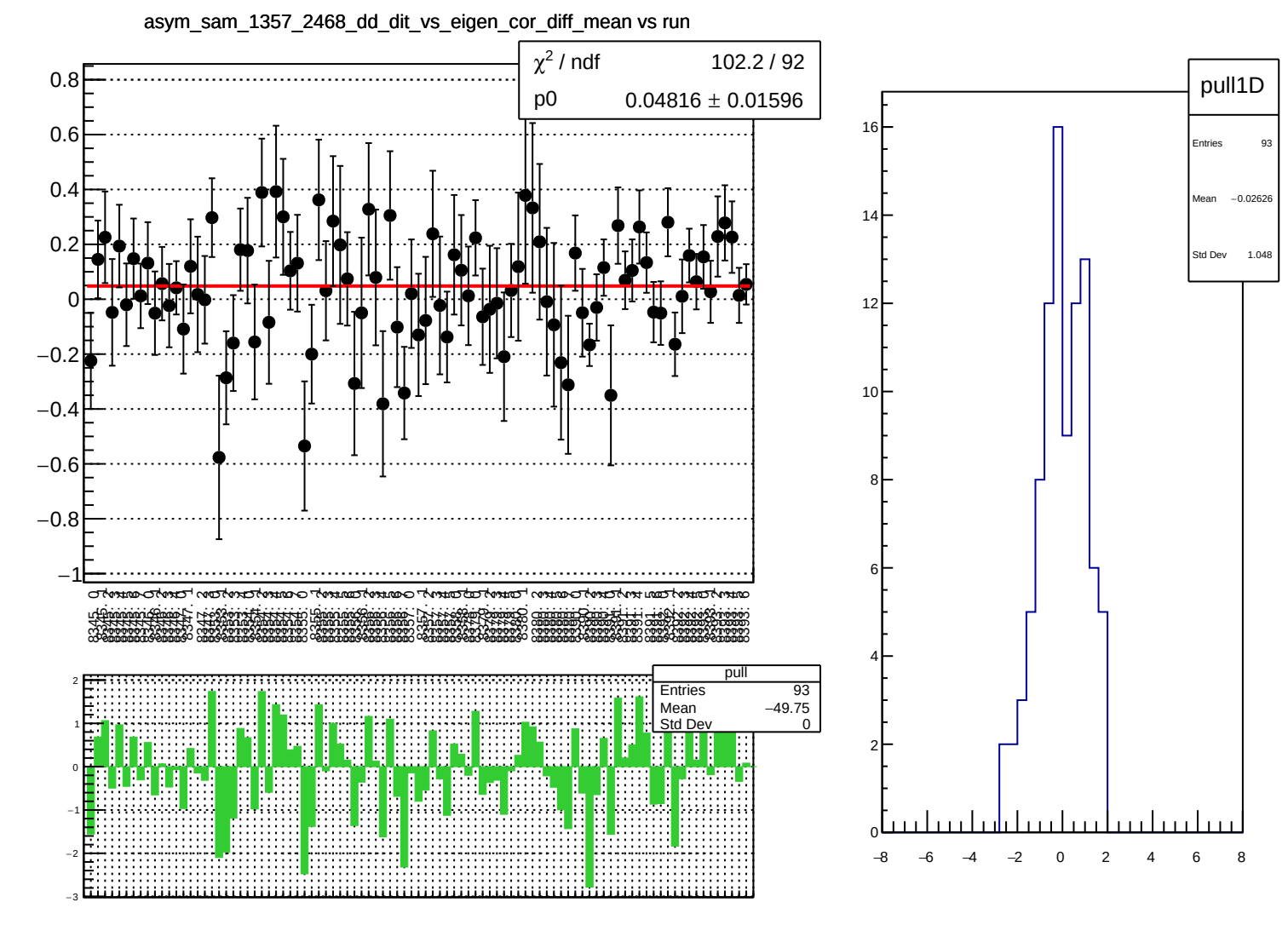

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.175e+04 / 92
p0 443.8 ± 0.3301
580
560
540
520
500
480
460
440
420
400
380

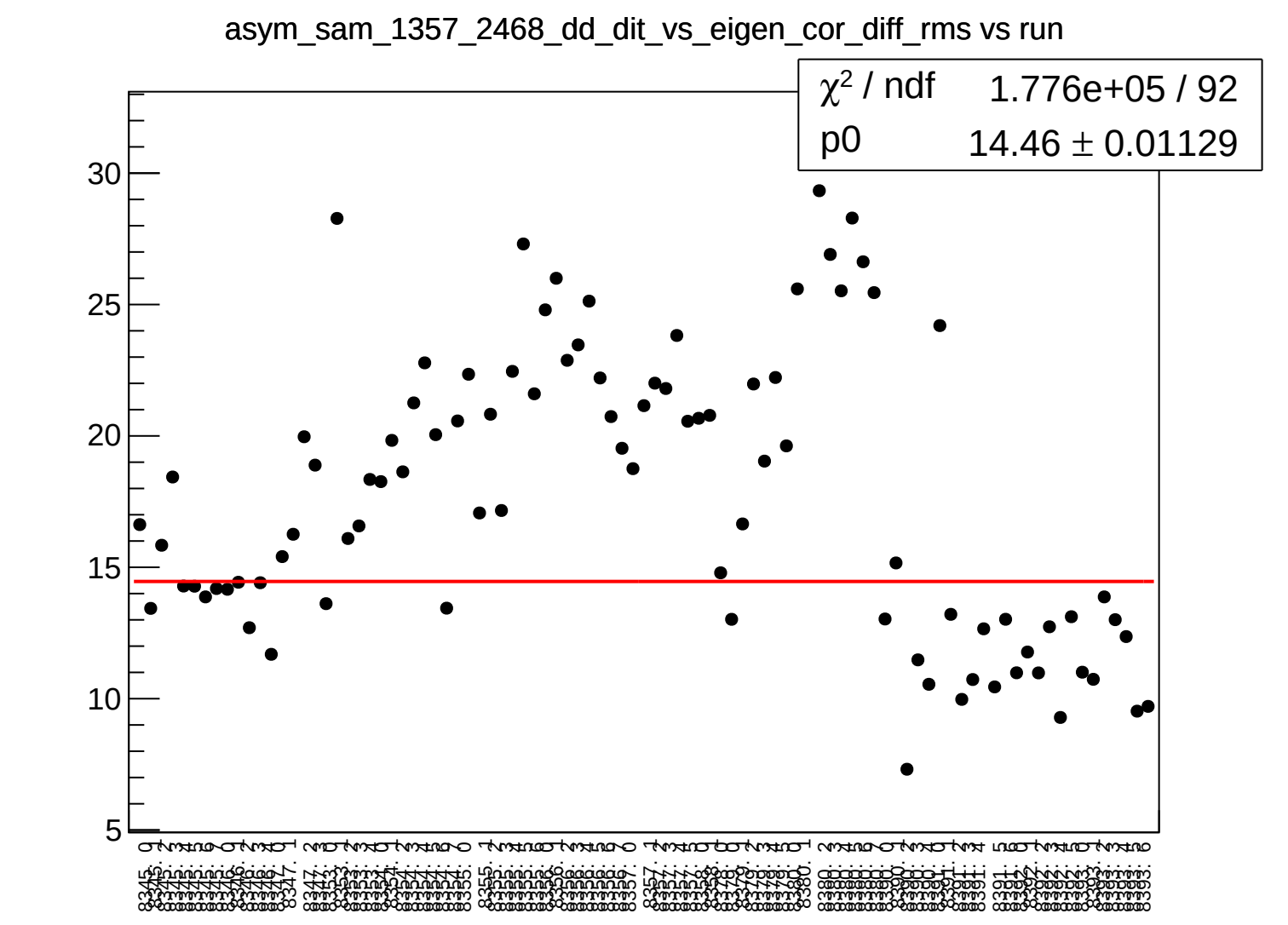

asym_sam_1357_2468_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 111.9 / 92
p0 −4.118e−14 ± 3.97e−14
pull
Entries 93
Mean 20.76
Std Dev 0
pull1D
Entries 93
Mean 0.05012
Std Dev 1.096

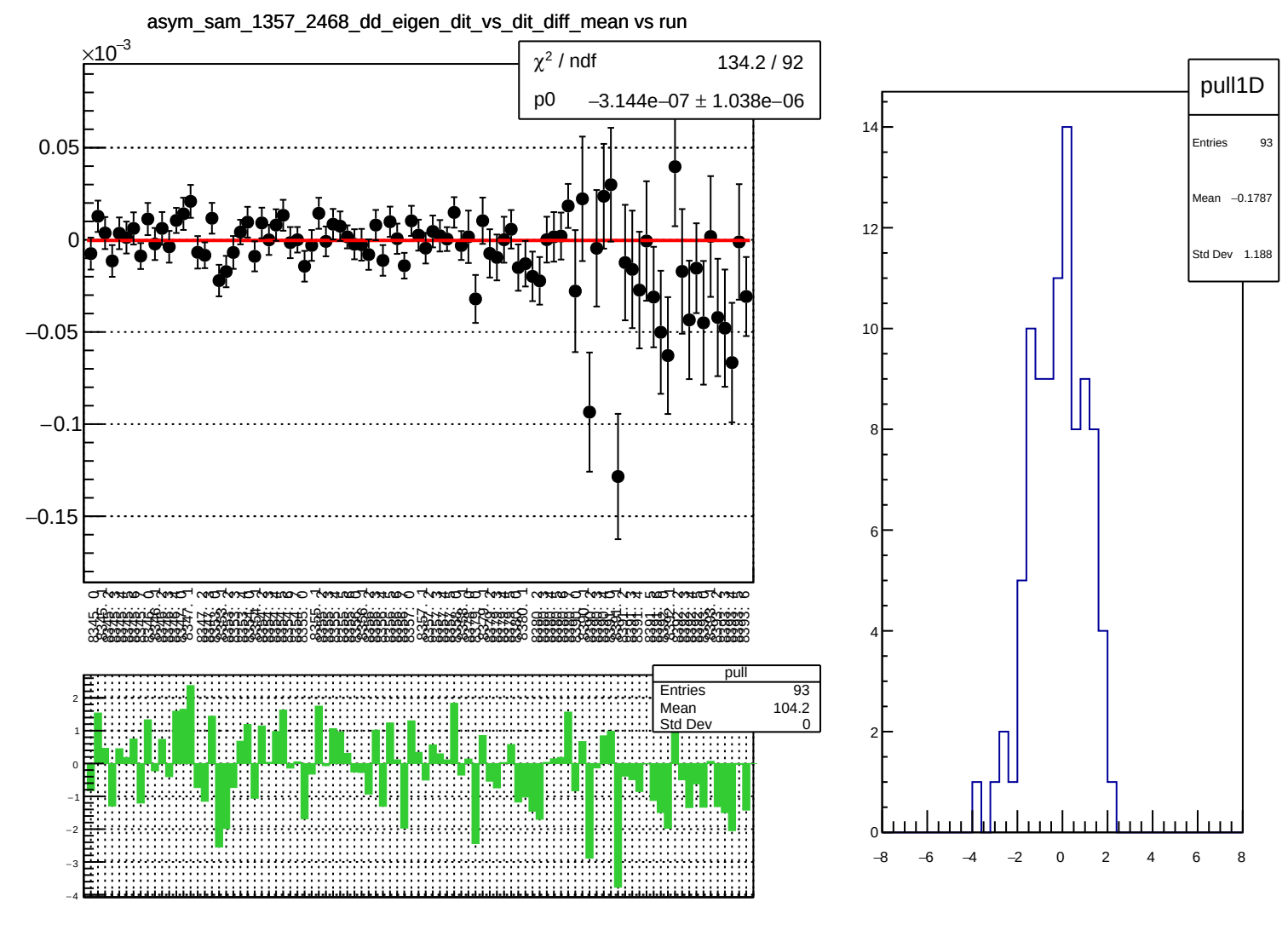

asym_sam_1357_2468_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.073e+06 / 92
p0 2.425e−11 ± 2.807e−14
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0

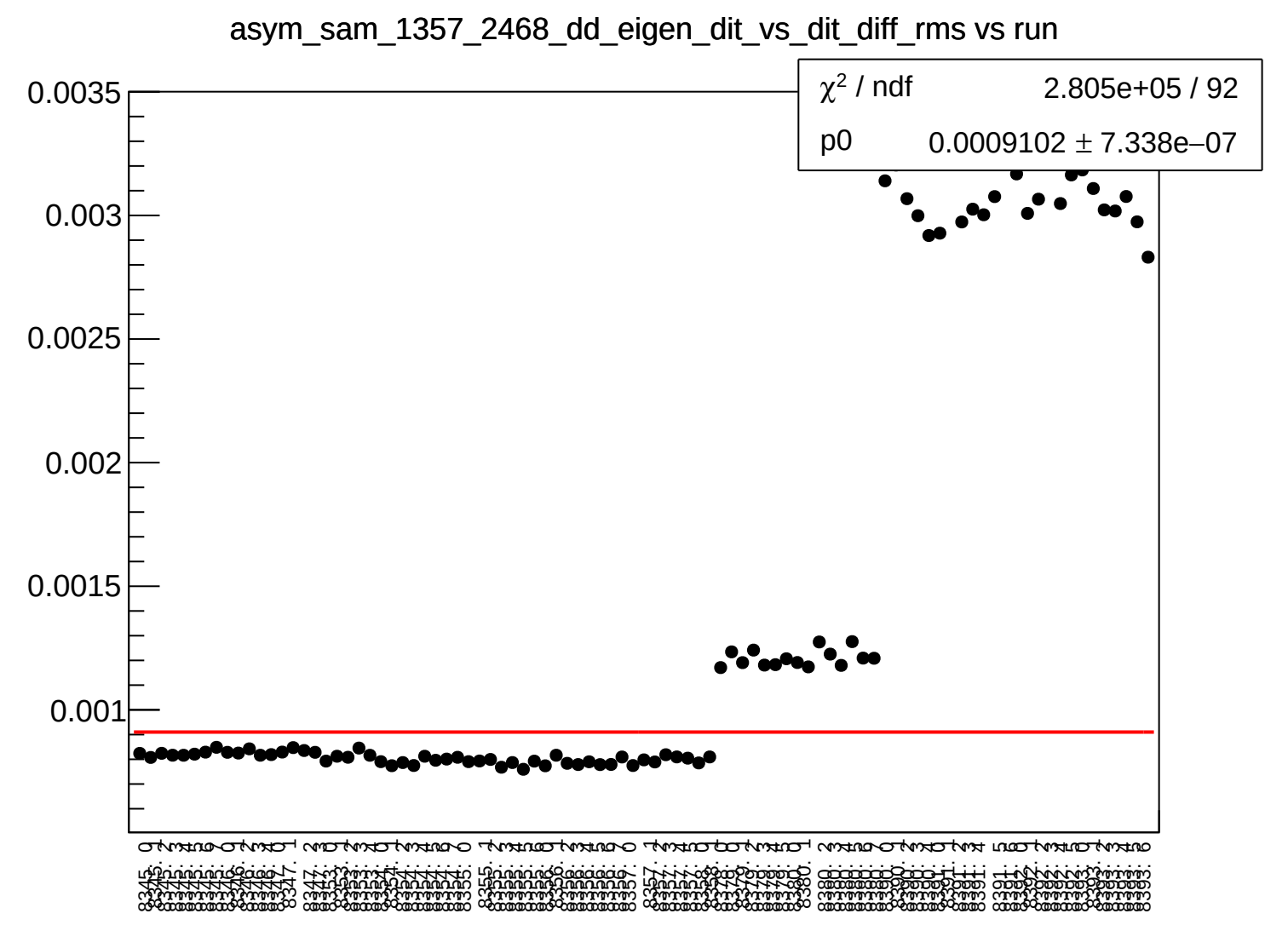

asym_sam_1357_2468_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 102.2 / 92
p0 0.04816 ± 0.01596
pull
Entries 93
Mean −49.75
Std Dev 0
pull1D
Entries 93
Mean −0.02626
Std Dev 1.048

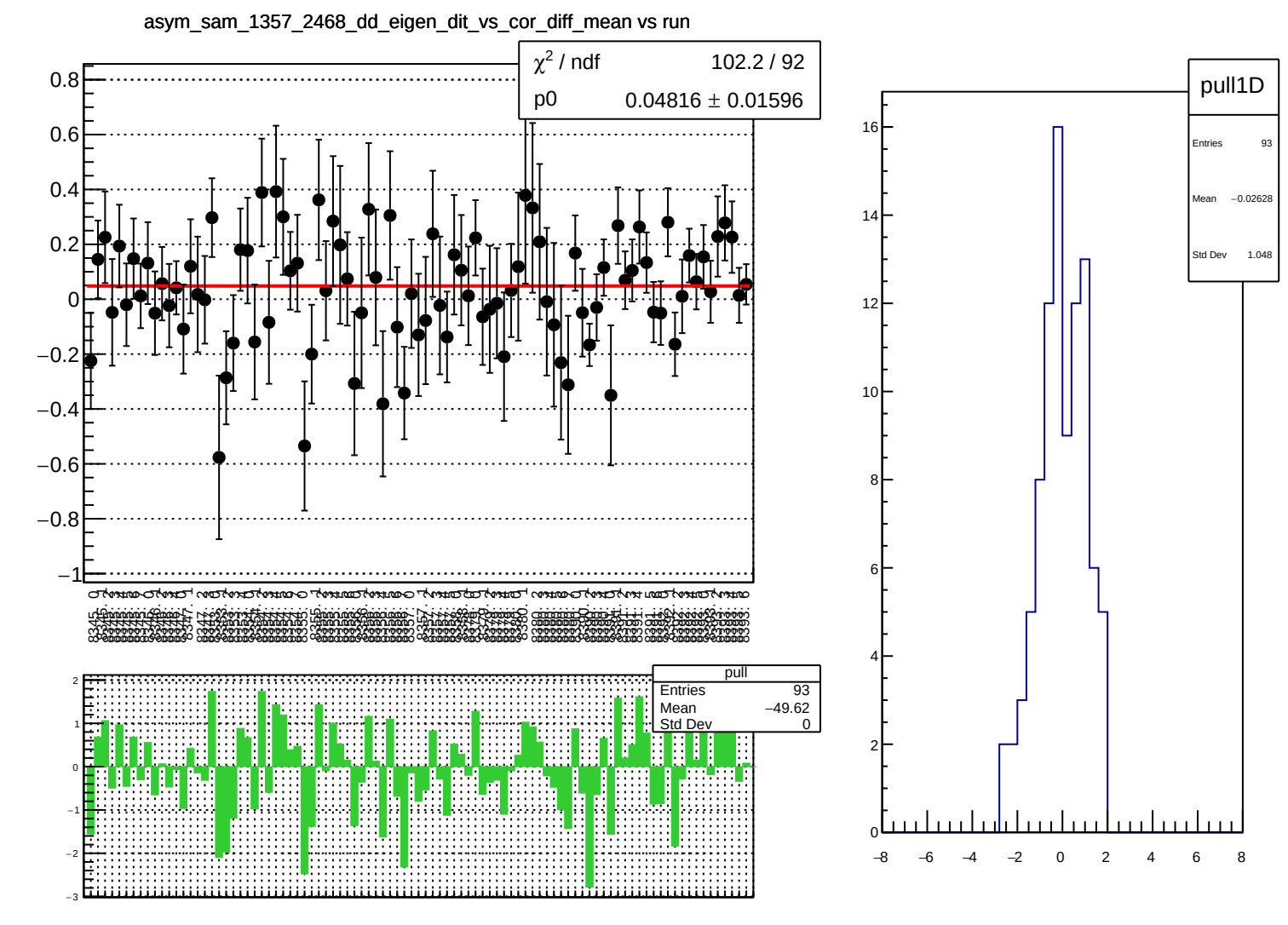

asym_sam_1357_2468_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.776e+05 / 92
p0 14.46 ± 0.01129
30
25
20
15
10
5

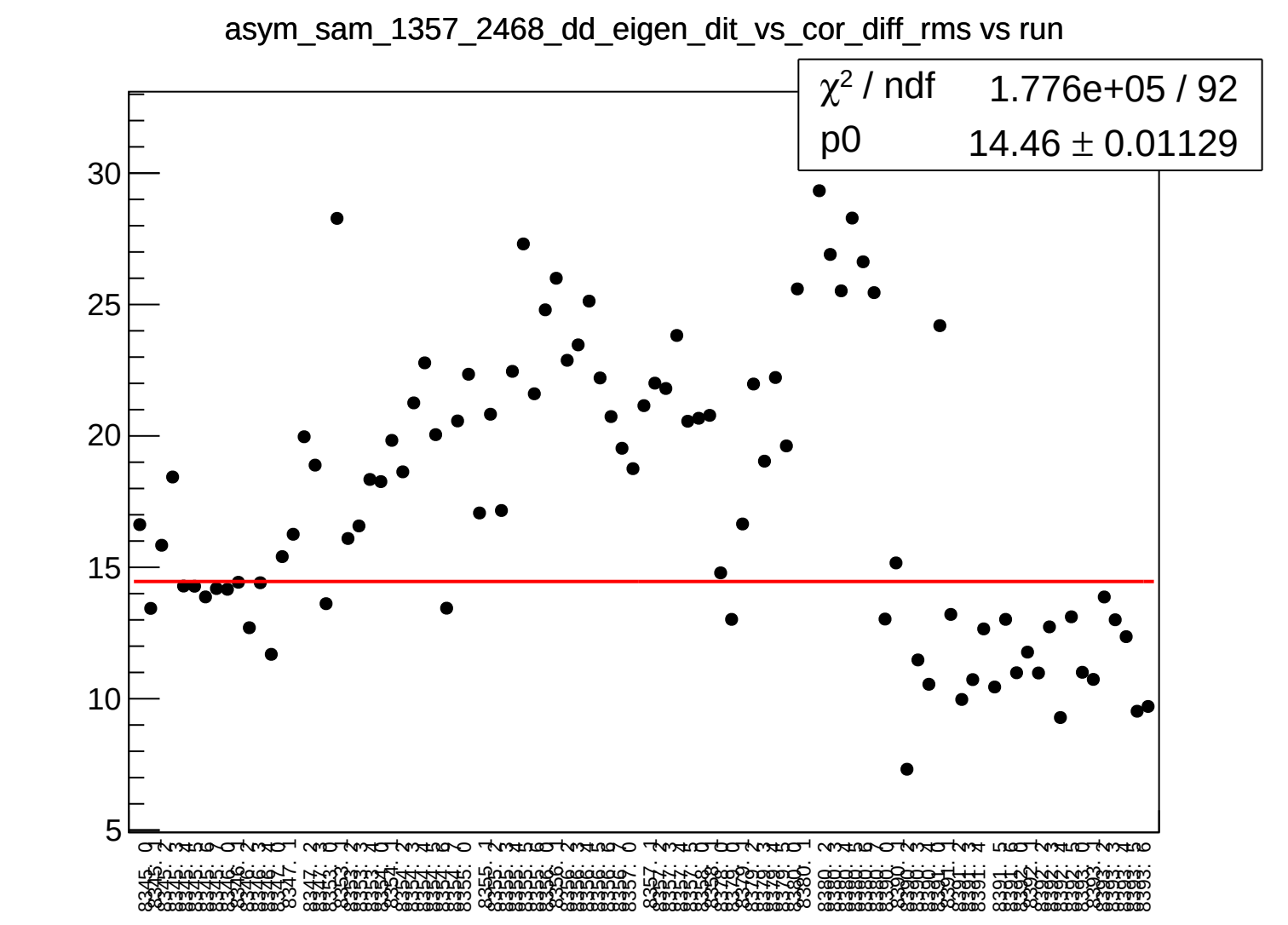

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.2 / 92
p0 0.04816 ± 0.01596
pull
Entries 93
Mean −49.75
Std Dev 0
pull1D
Entries 93
Mean −0.02626
Std Dev 1.048

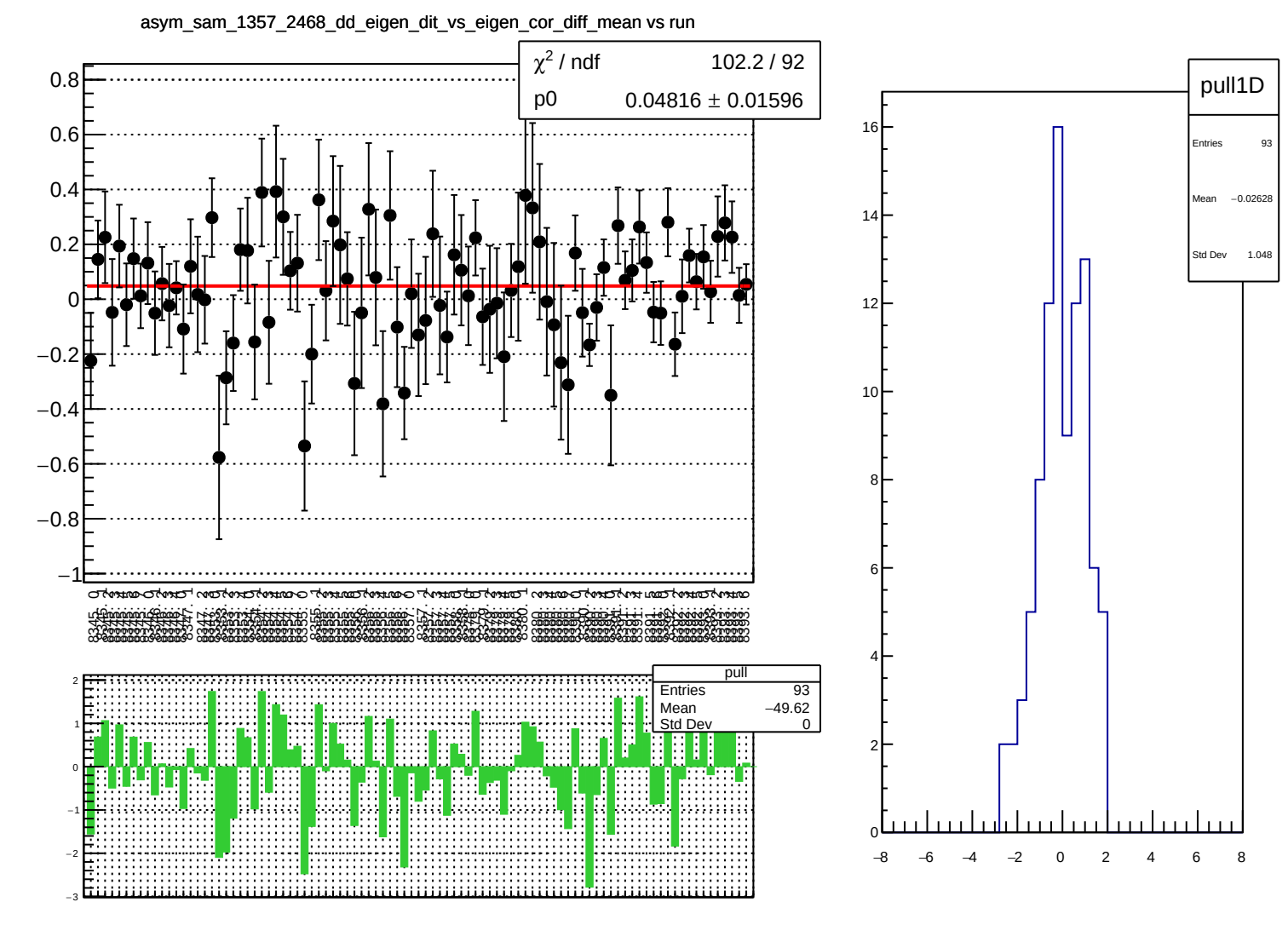

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.776e+05 / 92
p0 14.46 ± 0.01129
30
25
20
15
10
5

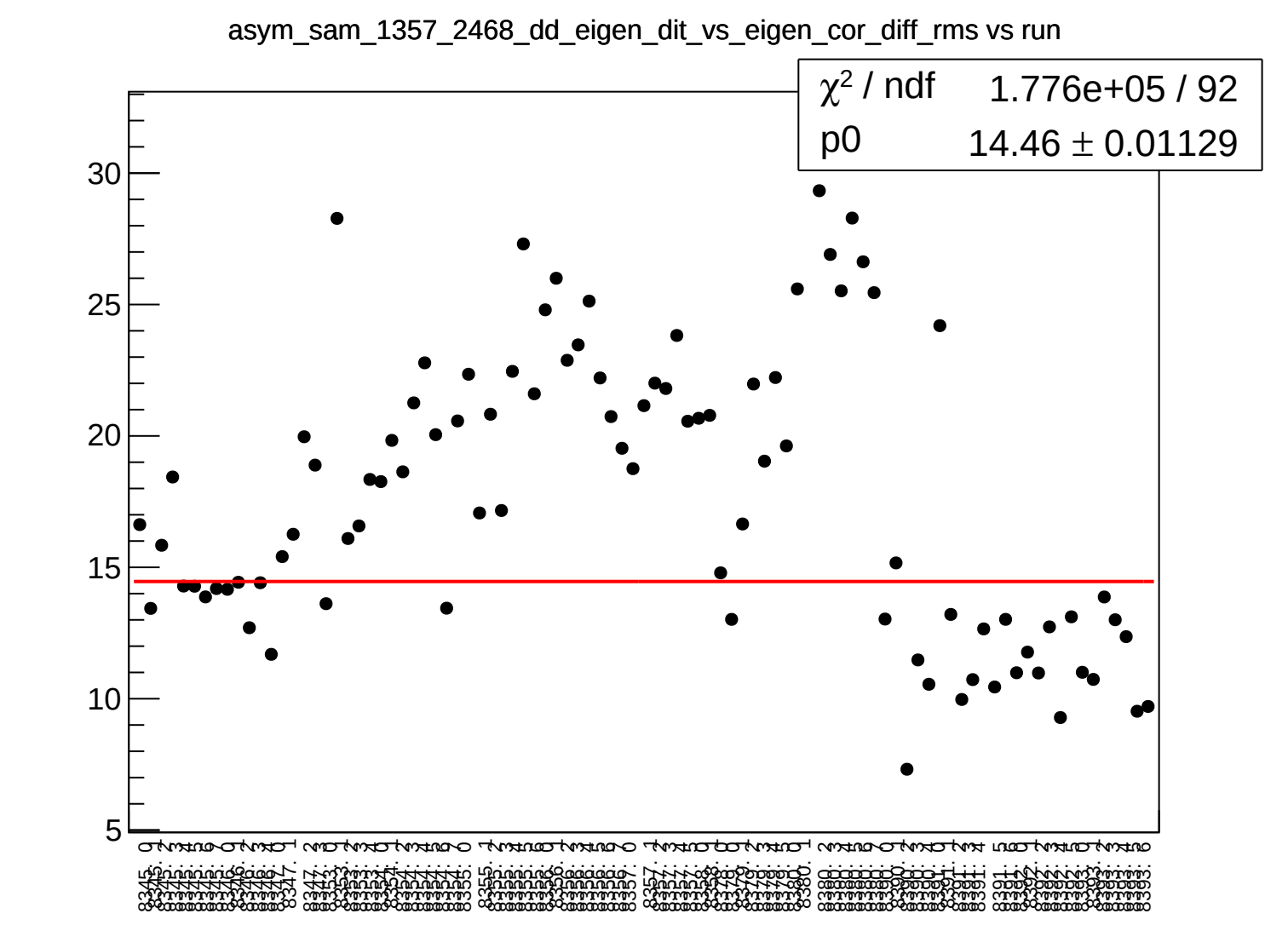

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 134.2 / 92
p0 −3.144e−07 ± 1.038e−06
0.05
0
−0.05
−0.1
−0.15
pull
Entries 93
Mean 104.2
Std Dev 0
pull1D
Entries 93
Mean −0.1787
Std Dev 1.188

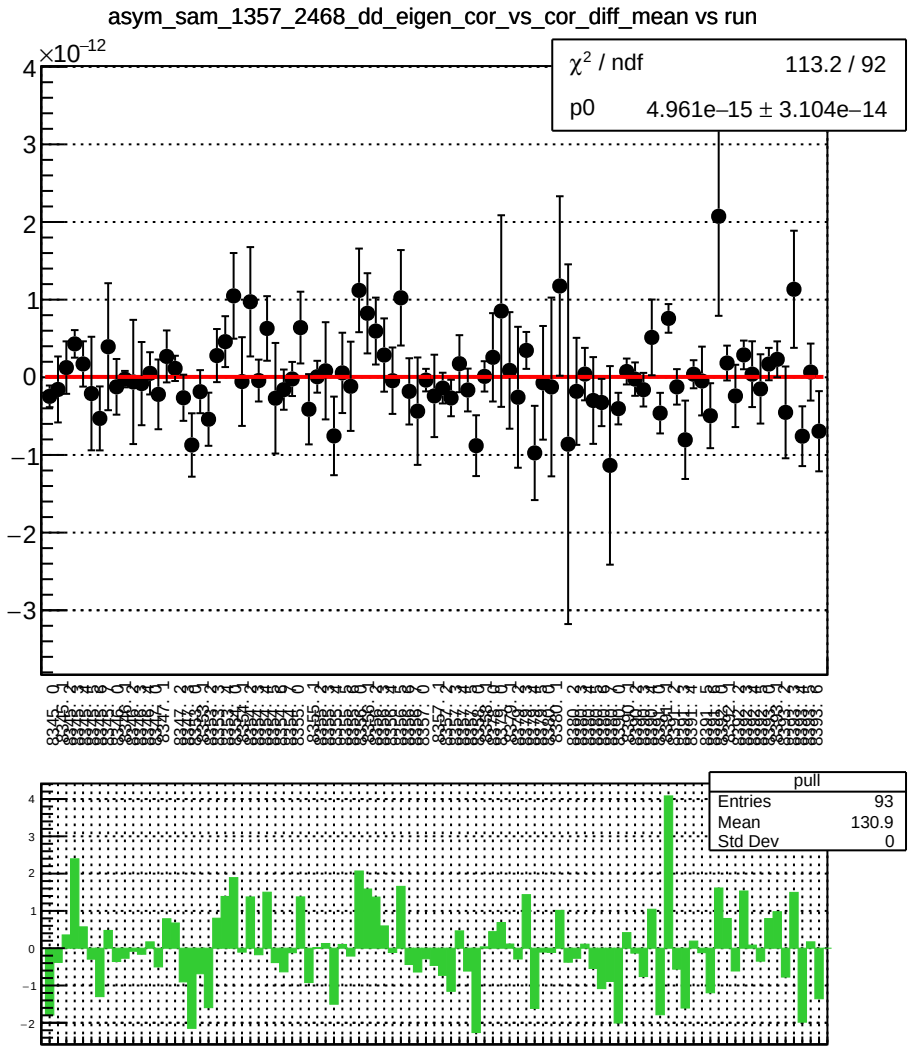

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.805e+05 / 92
p0 0.0009102 ± 7.338e−07
0.0035
0.003
0.0025
0.002
0.0015
0.001

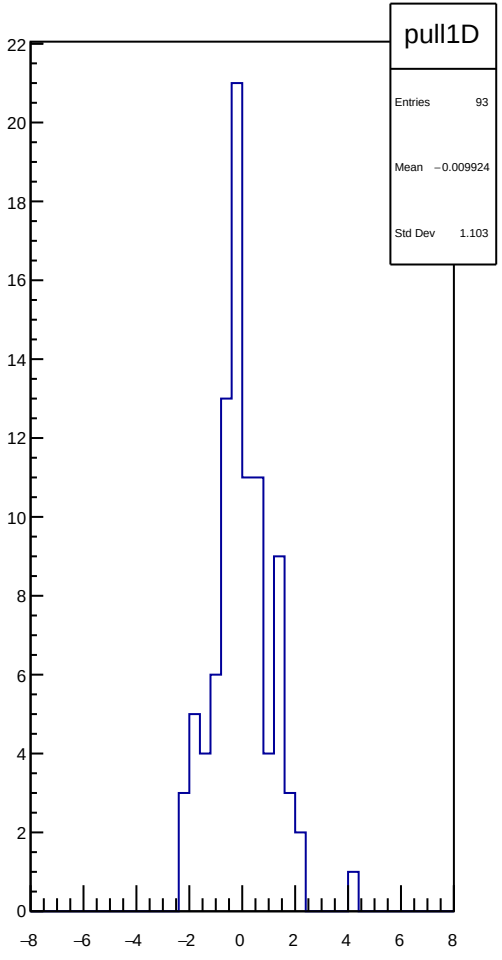

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 102.2 / 92
p0 0.04816 ± 0.01596
pull
Entries 93
Mean −49.62
Std Dev 0
pull1D
Entries 93
Mean −0.02628
Std Dev 1.048

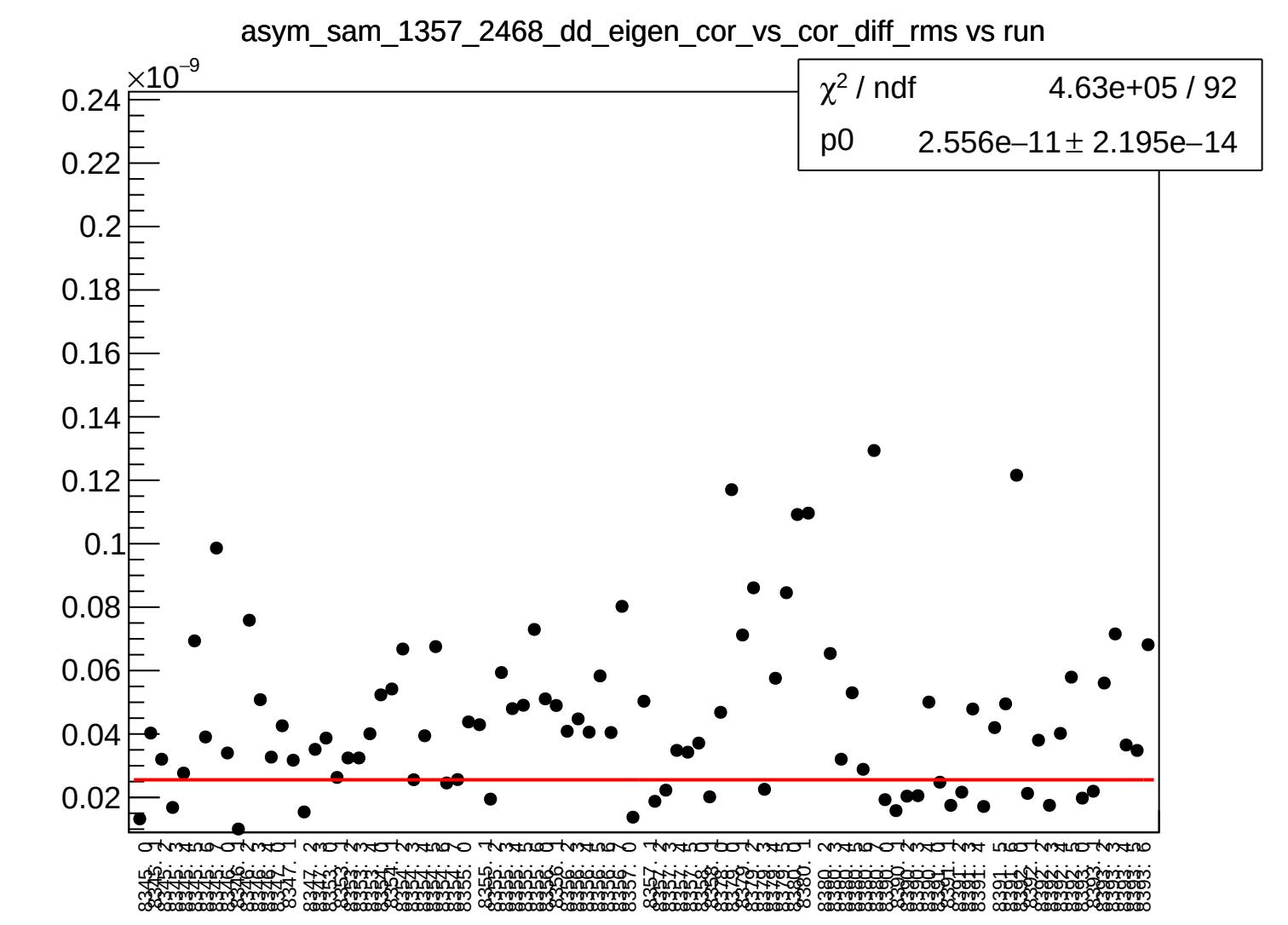

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.776e+05 / 92
p0 14.46 ± 0.01129
30
25
20
15
10
5

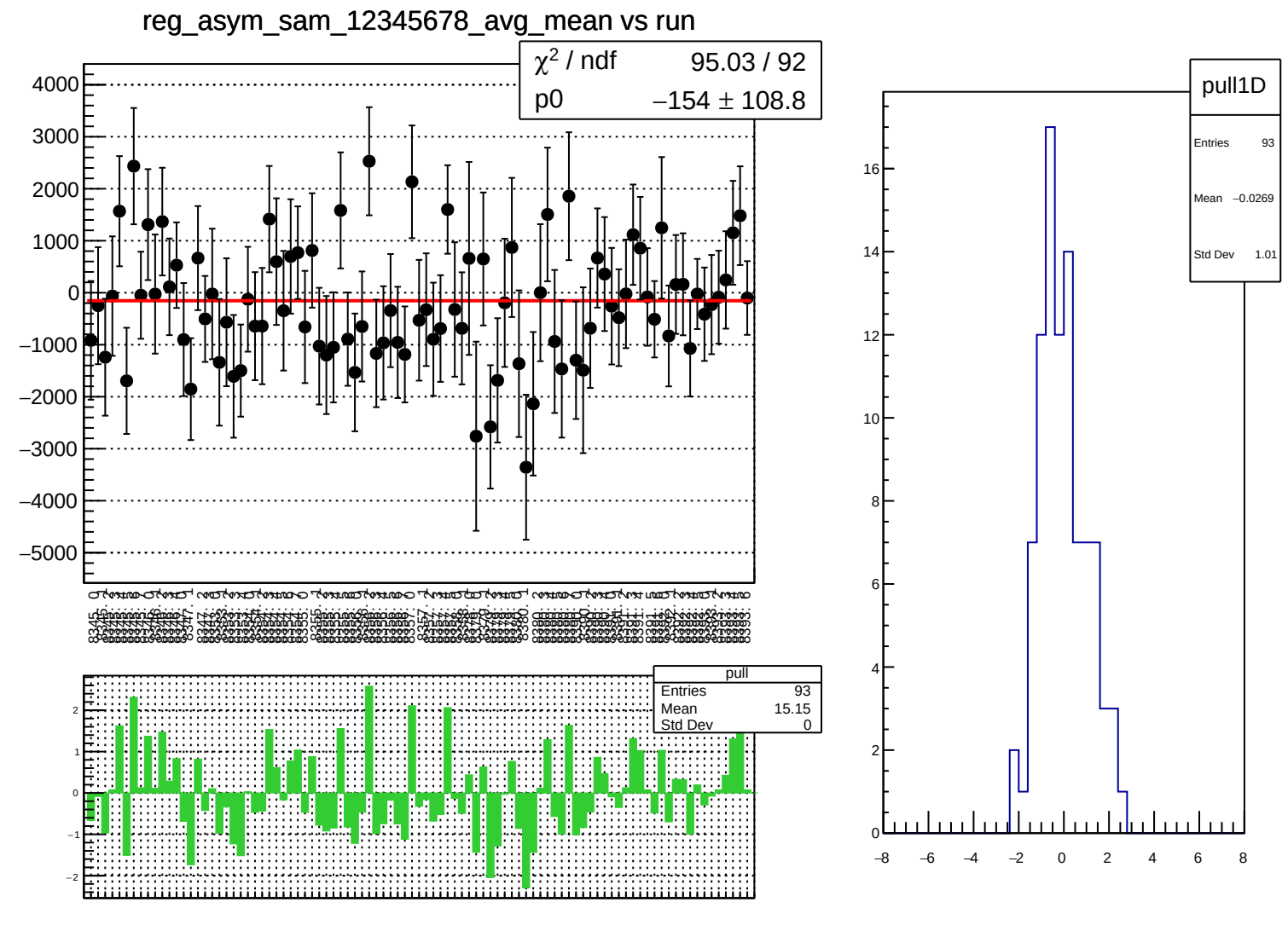

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.2 / 92
p0 0.04816 ± 0.01596
pull
Entries 93
Mean −49.62
Std Dev 0
pull1D
Entries 93
Mean −0.02628
Std Dev 1.048

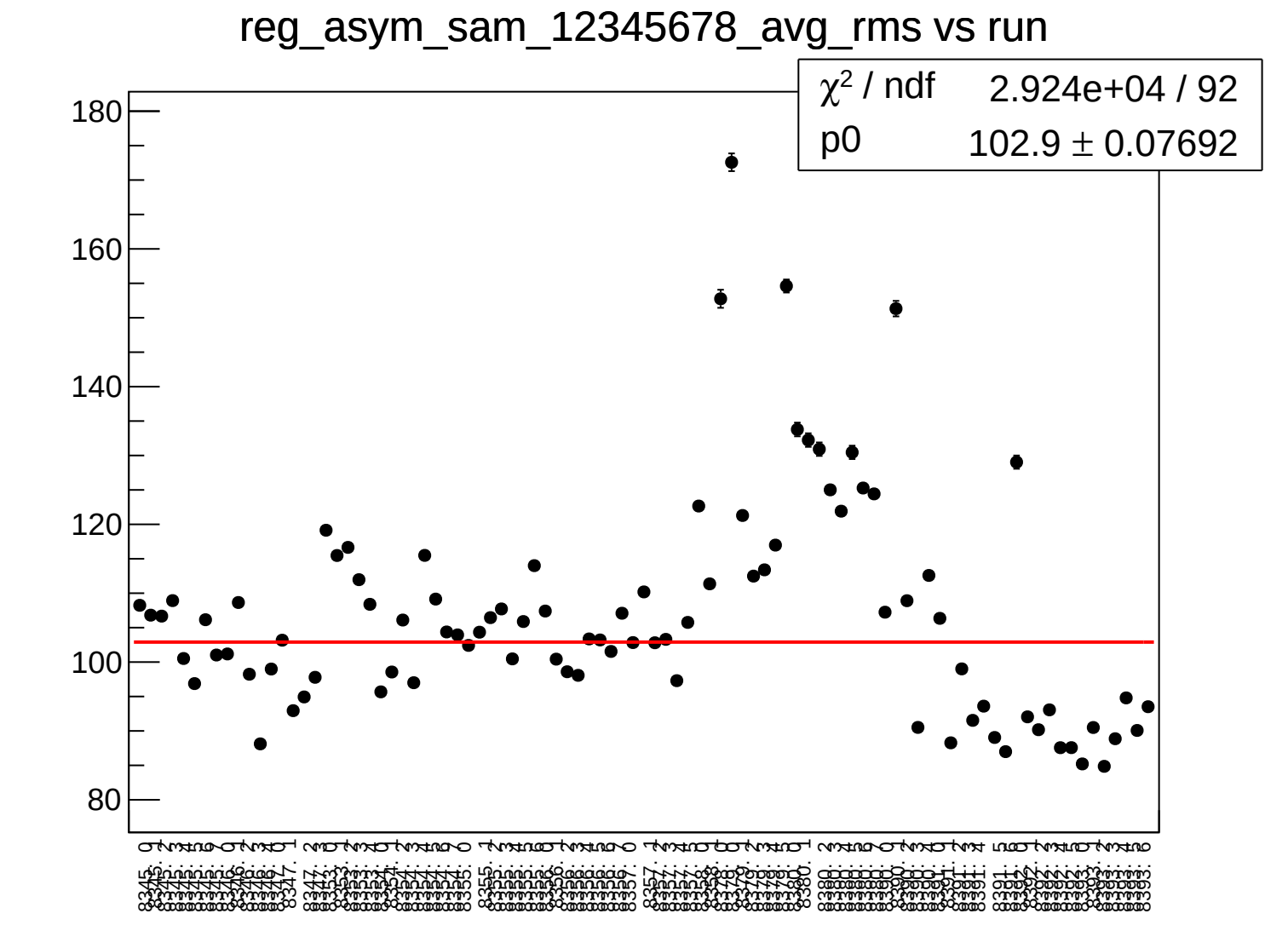

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.776e+05 / 92
p0 14.46 ± 0.01129
30
25
20
15
10
5

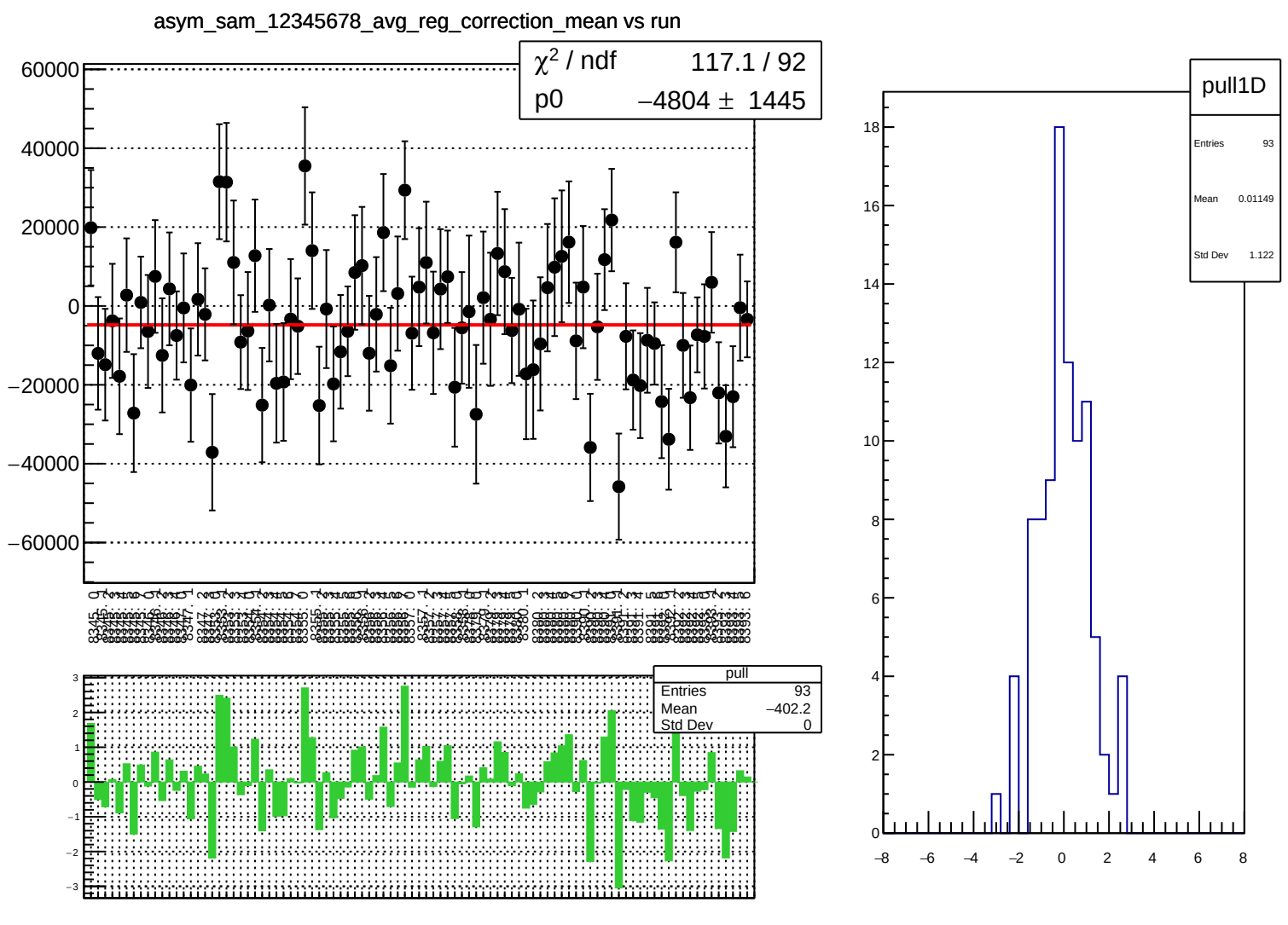

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 113.2 / 92
p0 4.961e−15 ± 3.104e−14
pull
Entries 93
Mean 130.9
Std Dev 0

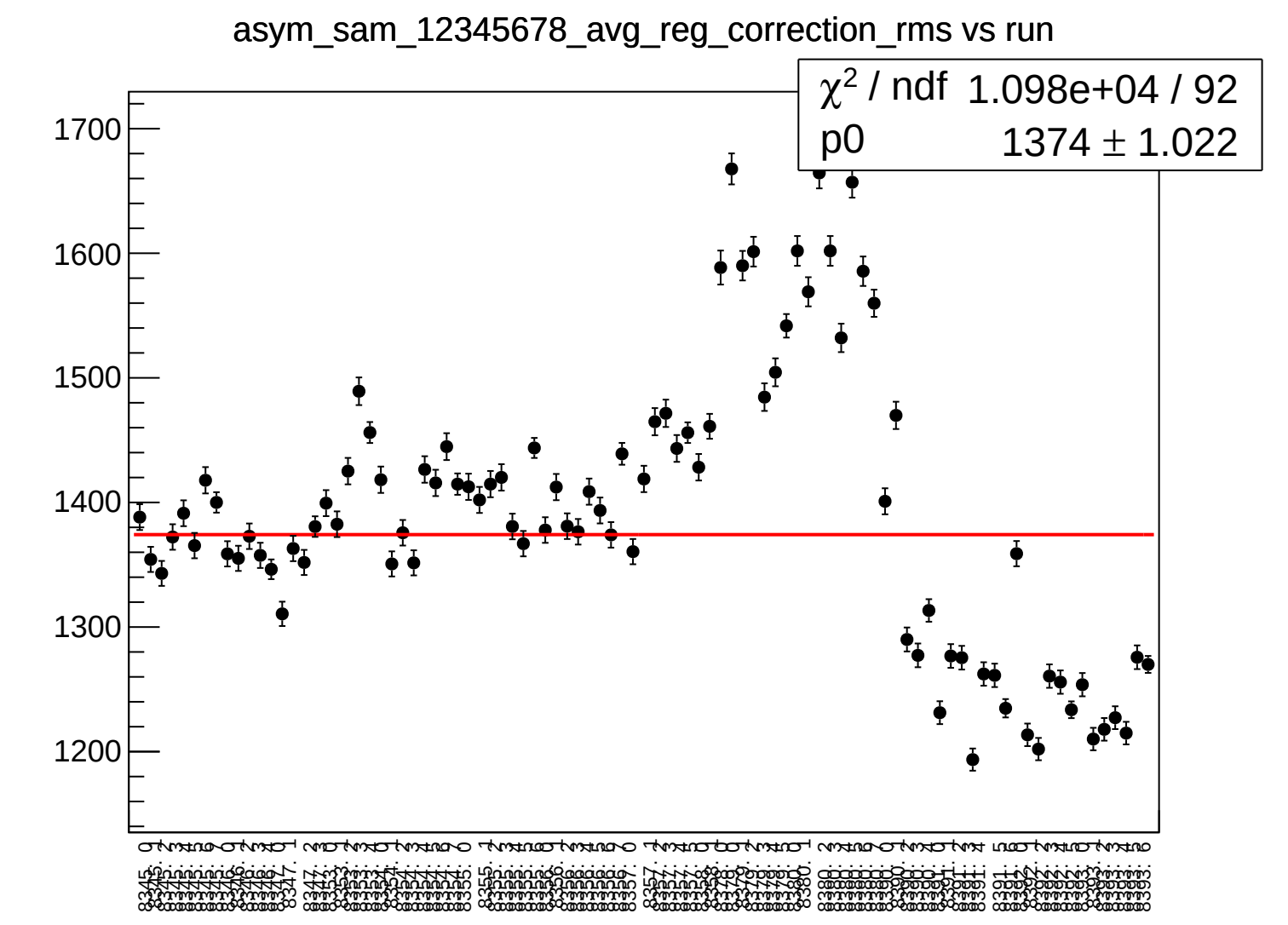

pull1D
Entries 93
Mean −0.009924
Std Dev 1.103

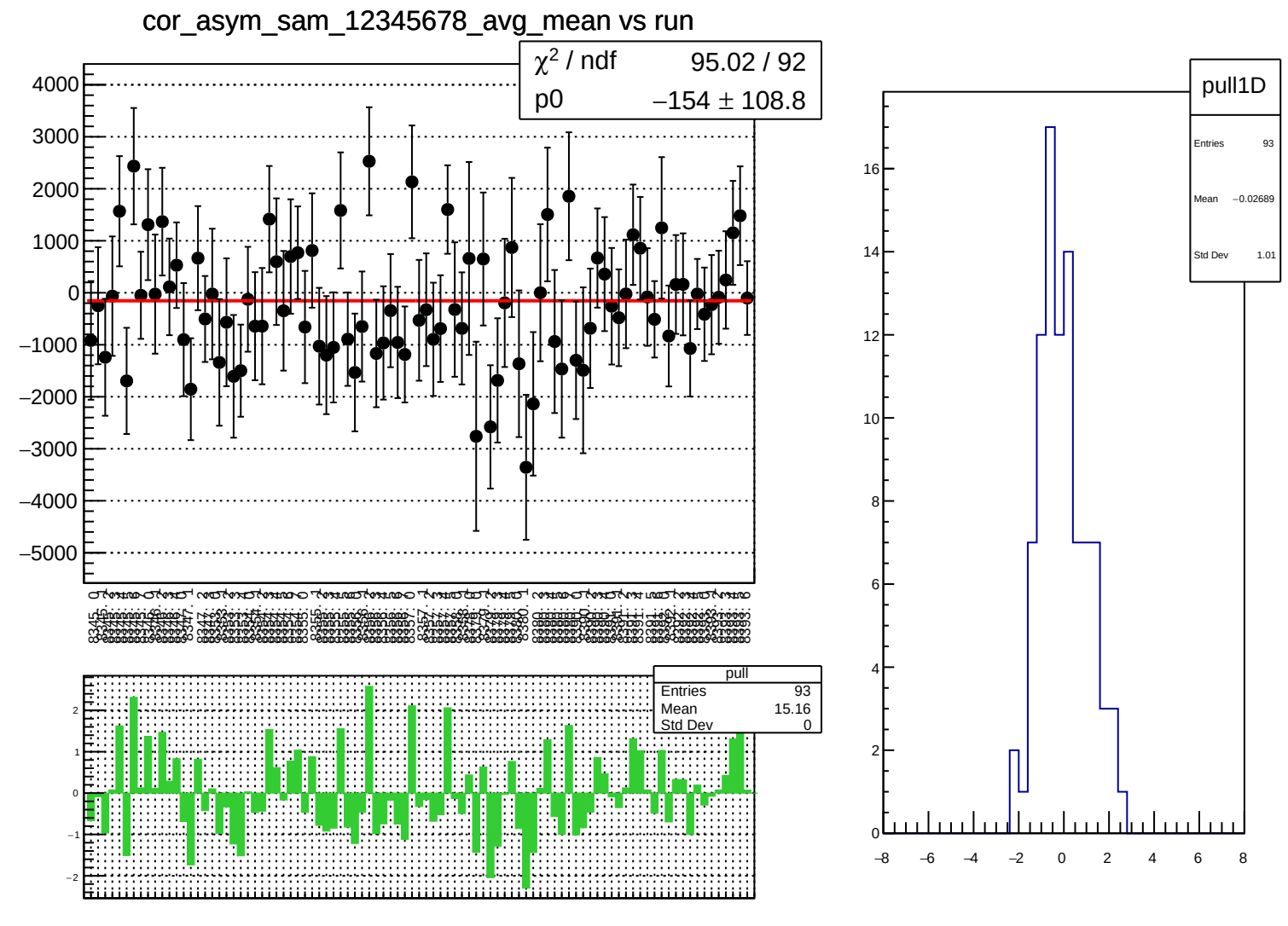

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
χ² / ndf 4.63e+05 / 92
p0 2.556e−11 ± 2.195e−14

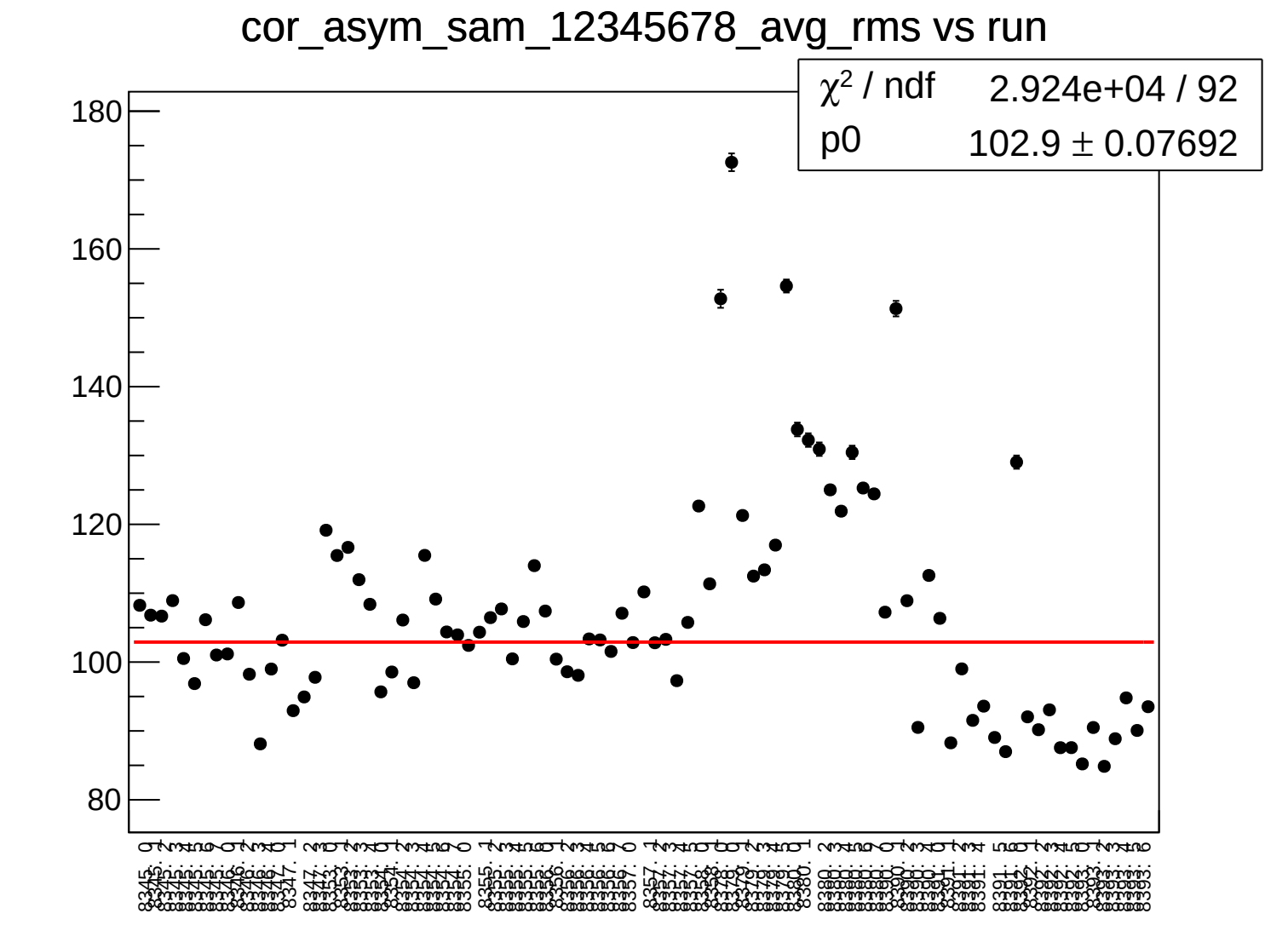

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 95.03 / 92
p0 −154 ± 108.8
pull
Entries 93
Mean 15.15
Std Dev 0
pull1D
Entries 93
Mean −0.0269
Std Dev 1.01

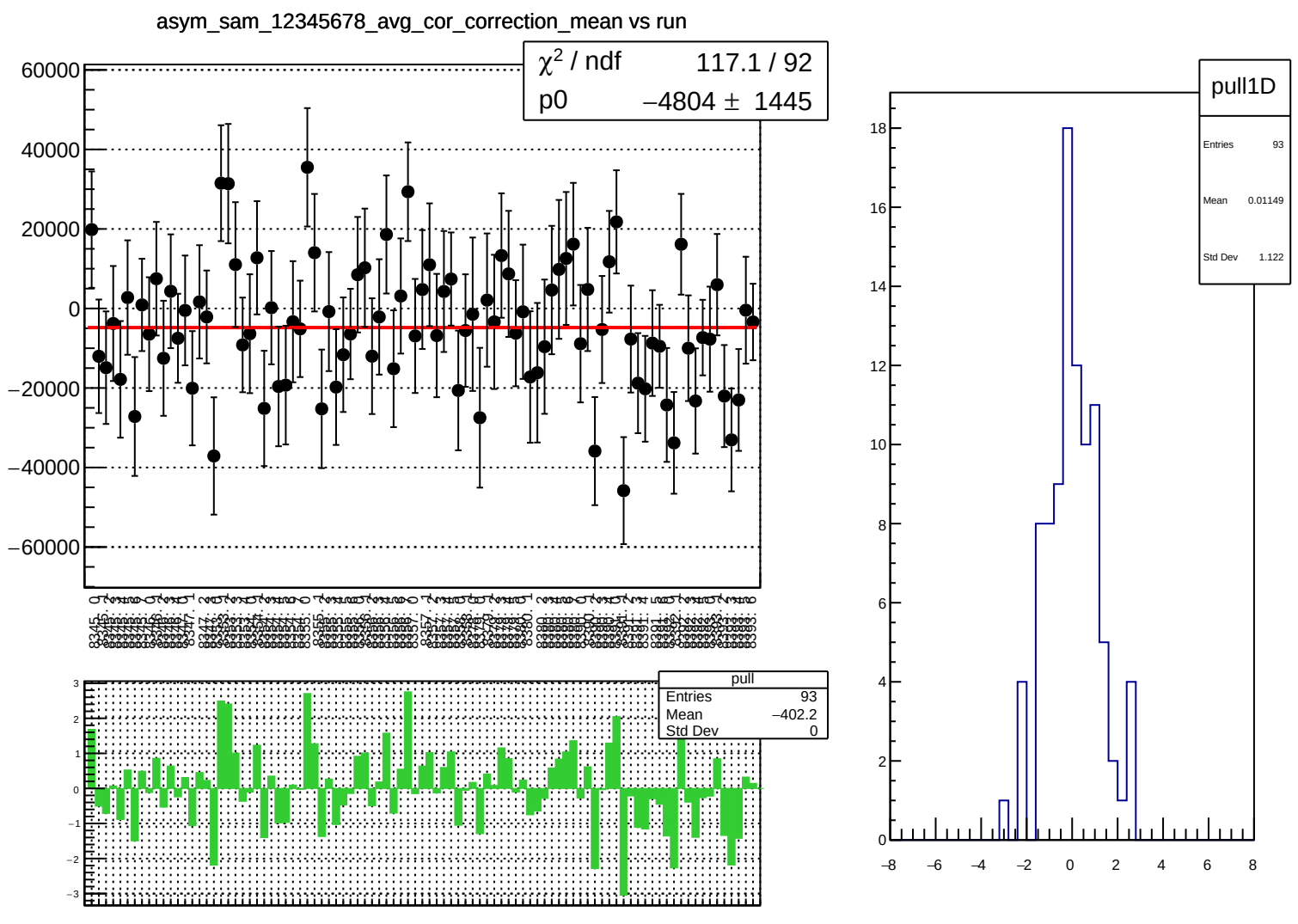

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 2.924e+04 / 92
p0 102.9 ± 0.07692
180
160
140
120
100
80

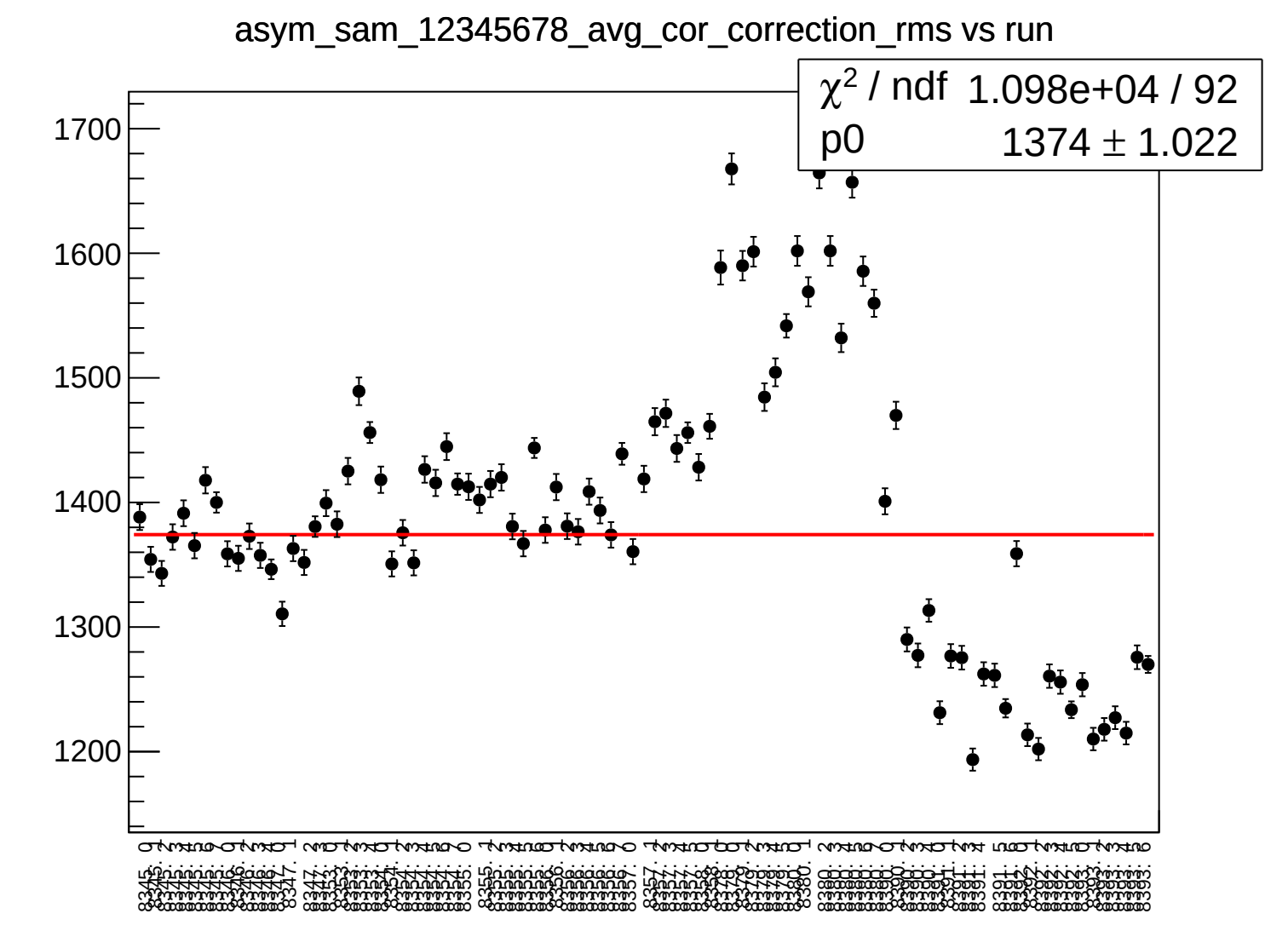

asym_sam_12345678_avg_reg_correction_mean vs run
χ² / ndf 117.1 / 92
p0 −4804 ± 1445
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −402.2
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.01149
Std Dev 1.122
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

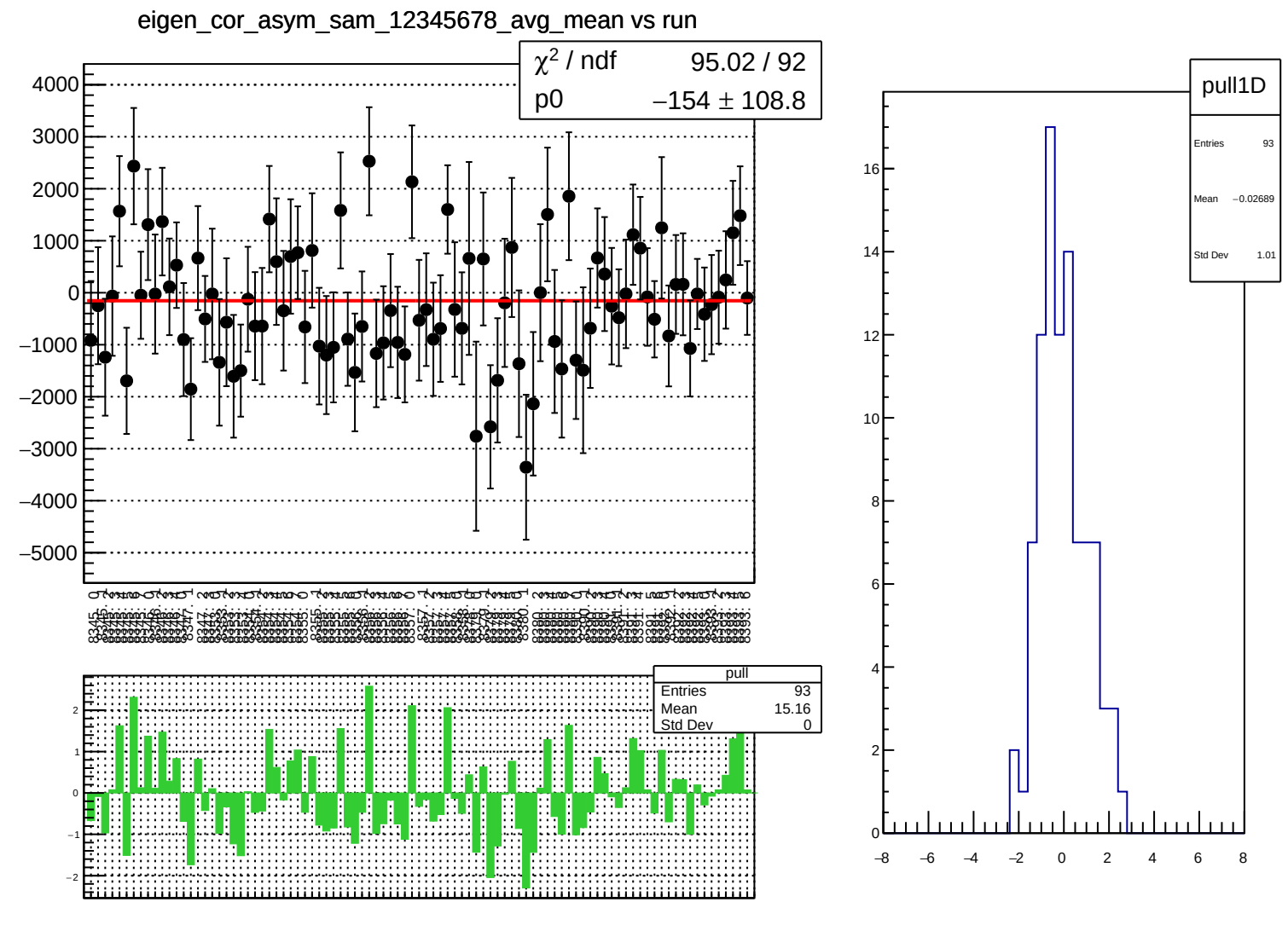

asym_sam_12345678_avg_reg_correction_rms vs run
χ² / ndf 1.098e+04 / 92
p0 1374 ± 1.022
1700
1600
1500
1400
1300
1200

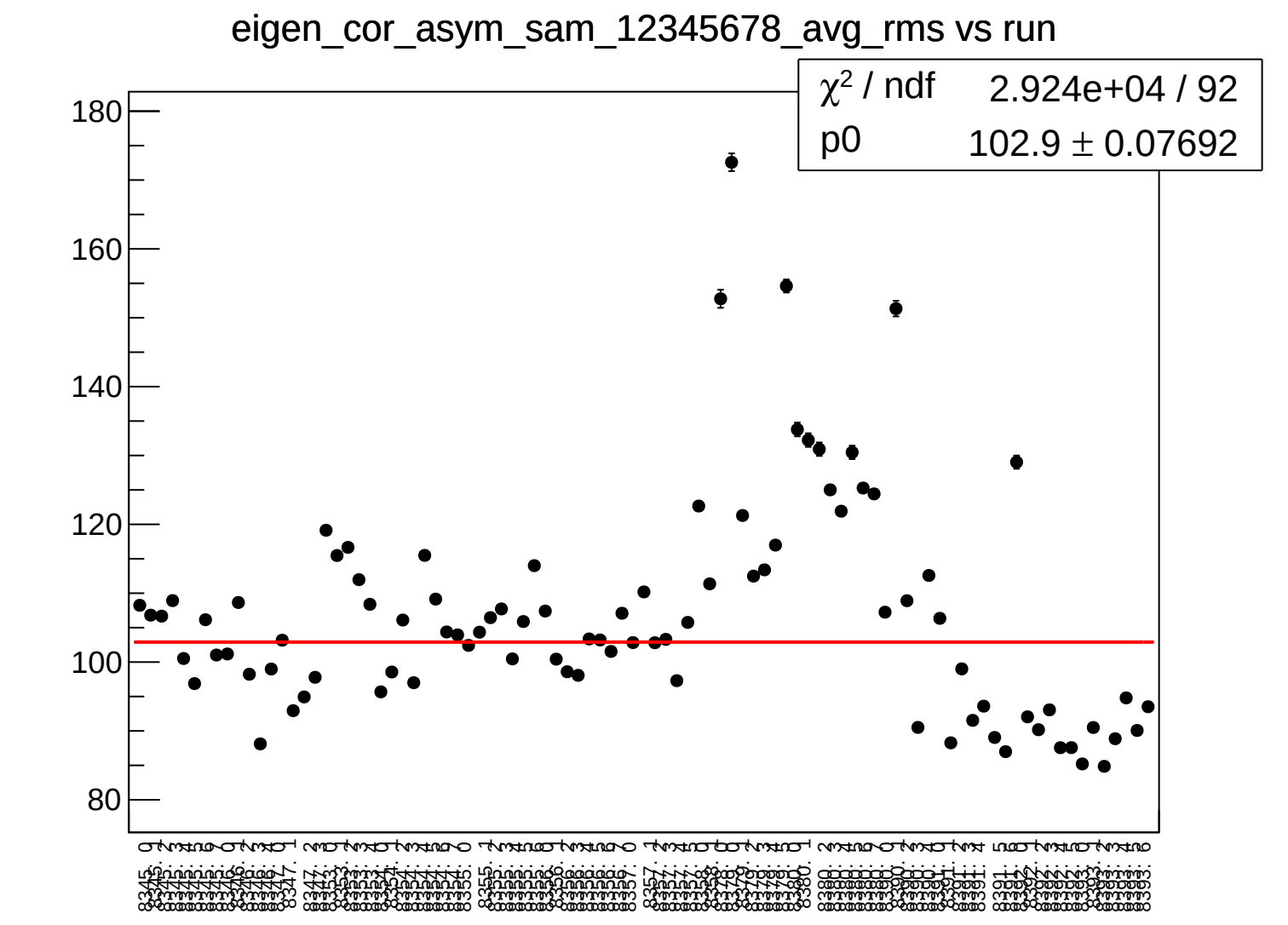

cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 95.02 / 92
p0 −154 ± 108.8
pull
Entries 93
Mean 15.16
Std Dev 0
pull1D
Entries 93
Mean −0.02689
Std Dev 1.01

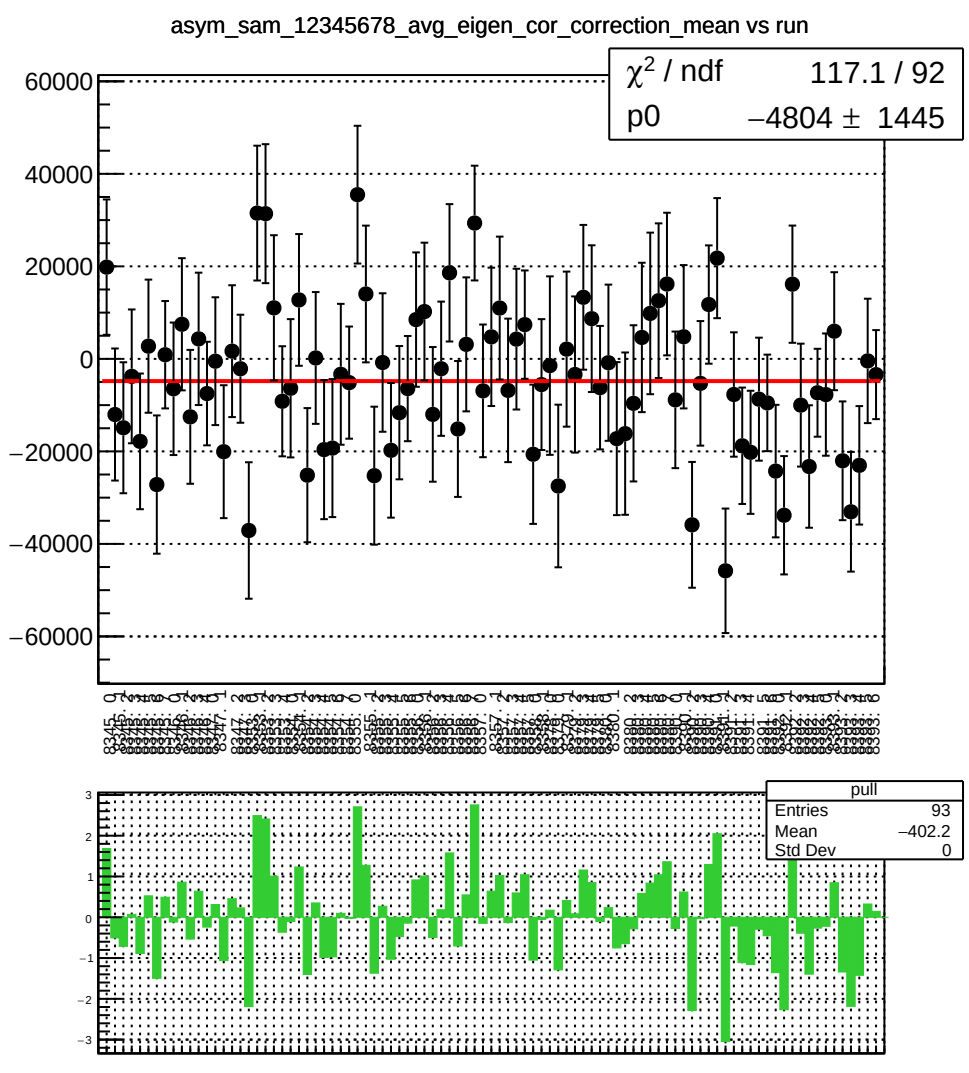

cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 2.924e+04 / 92
p0 102.9 ± 0.07692
180
160
140
120
100
80

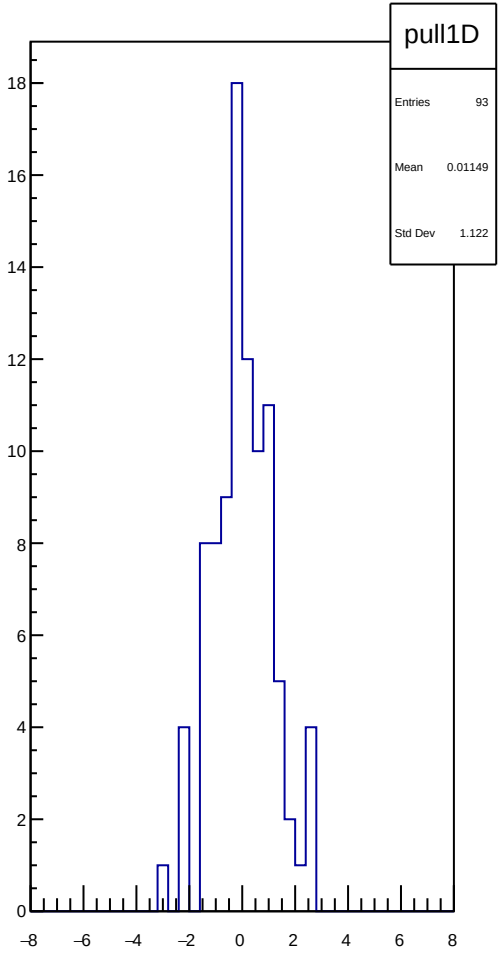

asym_sam_12345678_avg_cor_correction_mean vs run
χ² / ndf 117.1 / 92
p0 −4804 ± 1445
pull
Entries 93
Mean −402.2
Std Dev 0
pull1D
Entries 93
Mean 0.01149
Std Dev 1.122

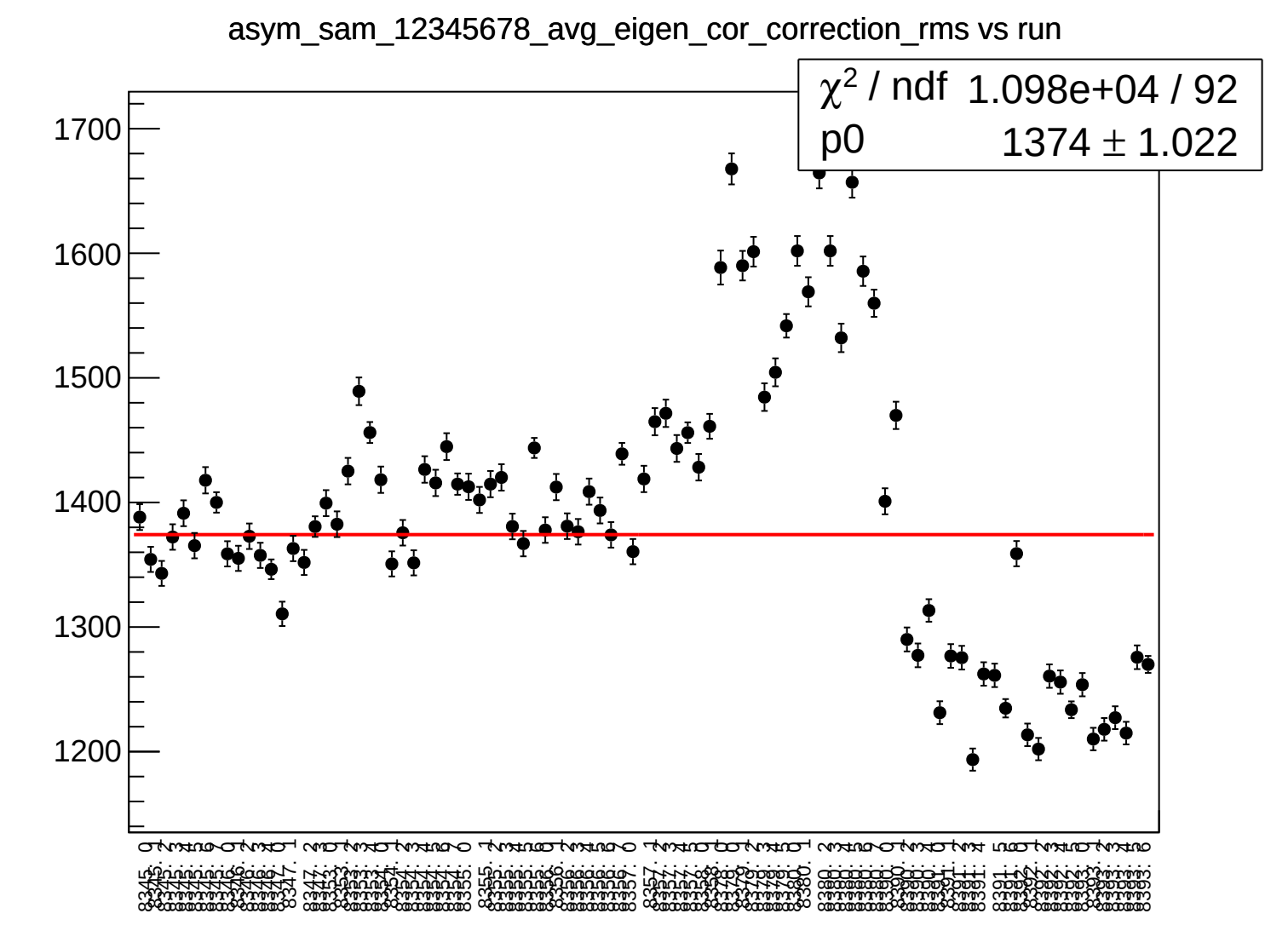

asym_sam_12345678_avg_cor_correction_rms vs run
χ² / ndf 1.098e+04 / 92
p0 1374 ± 1.022
1700
1600
1500
1400
1300
1200

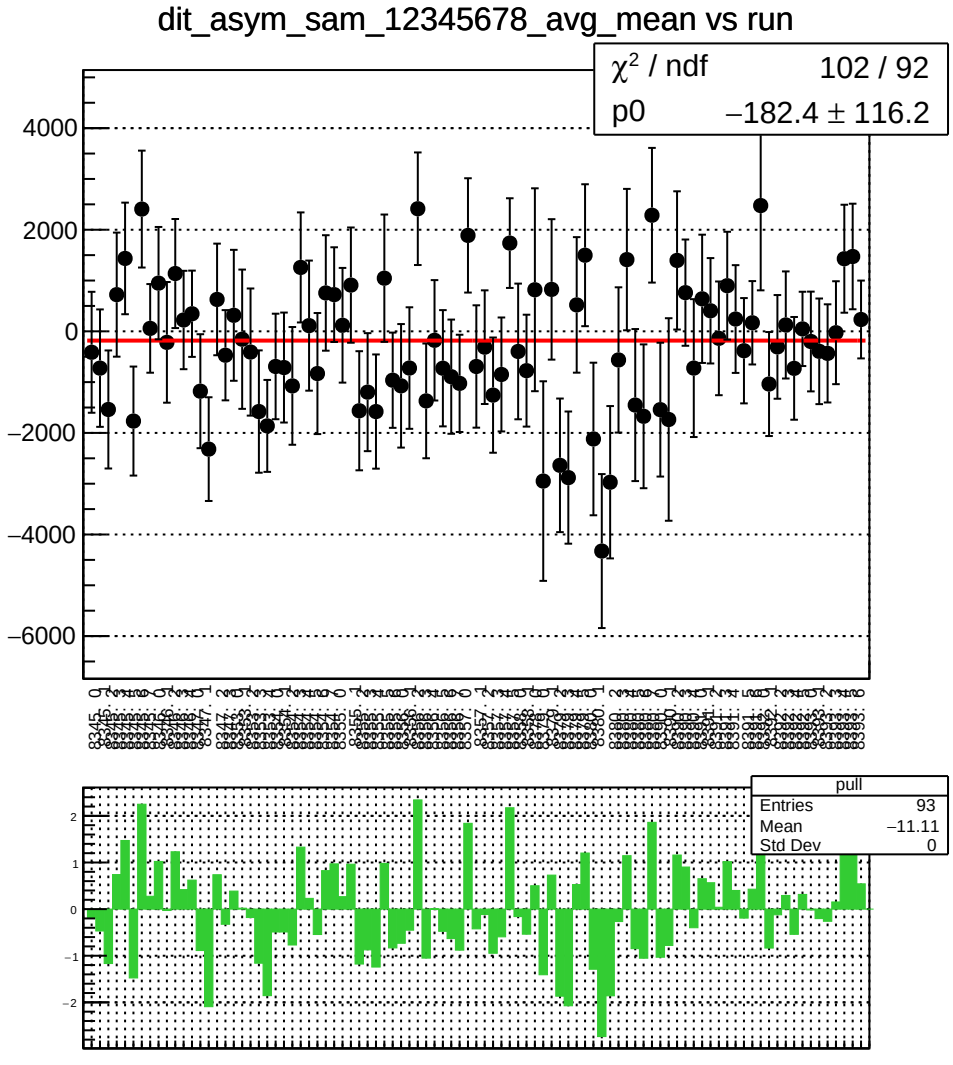

eigen_cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 95.02 / 92
p0 −154 ± 108.8
pull
Entries 93
Mean 15.16
Std Dev 0
pull1D
Entries 93
Mean −0.02689
Std Dev 1.01

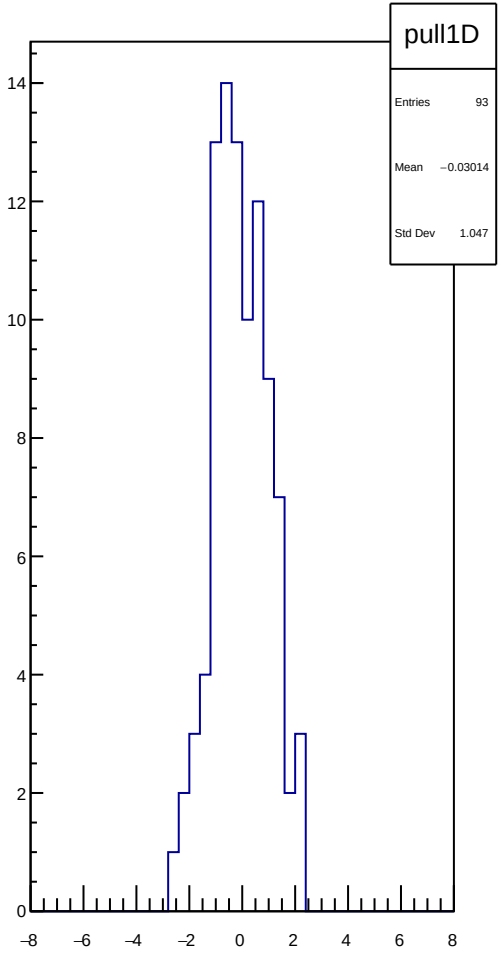

eigen_cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 2.924e+04 / 92
p0 102.9 ± 0.07692
180
160
140
120
100
80

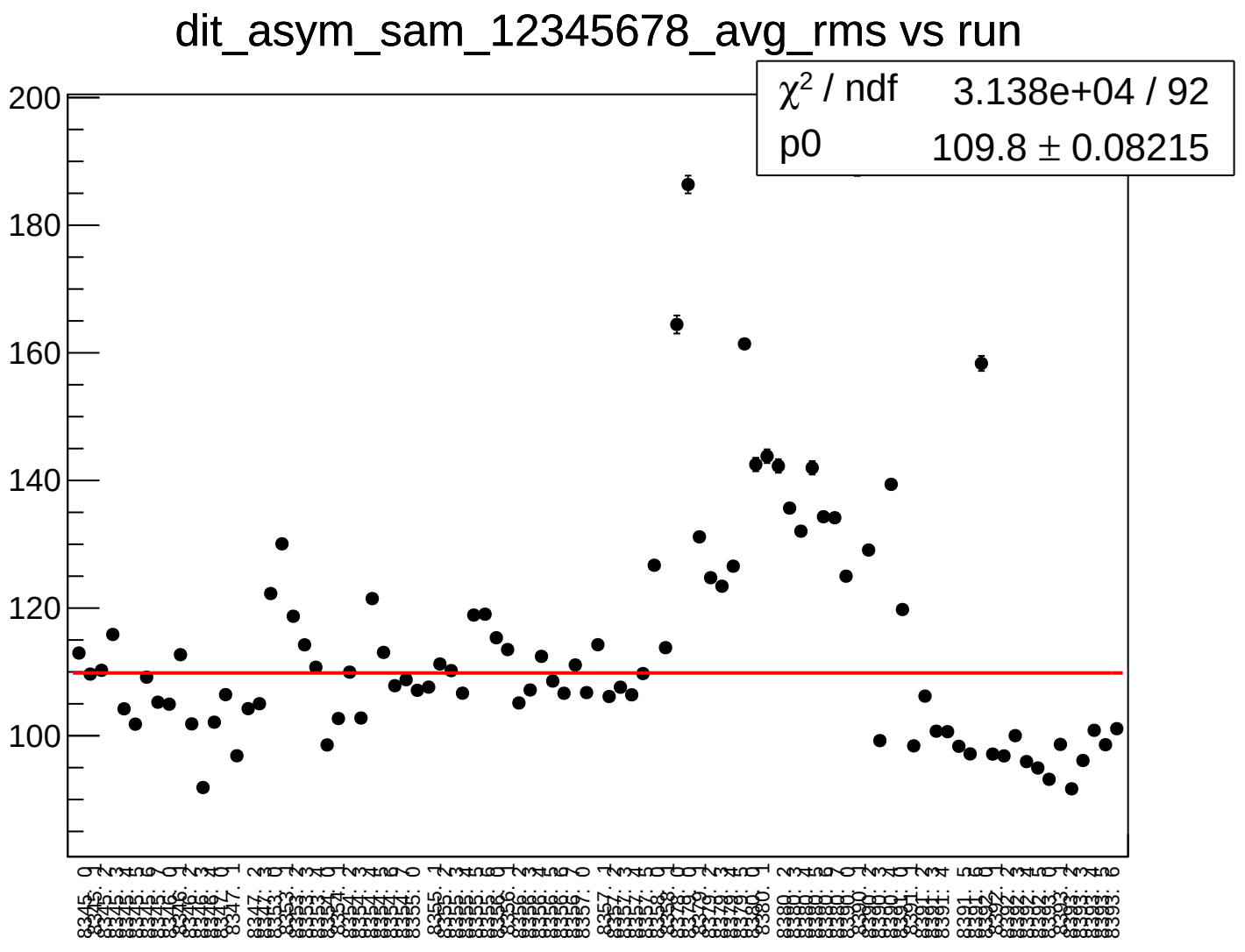

asym_sam_12345678_avg_eigen_cor_correction_mean vs run
χ² / ndf 117.1 / 92
p0 −4804 ± 1445
pull
Entries 93
Mean −402.2
Std Dev 0

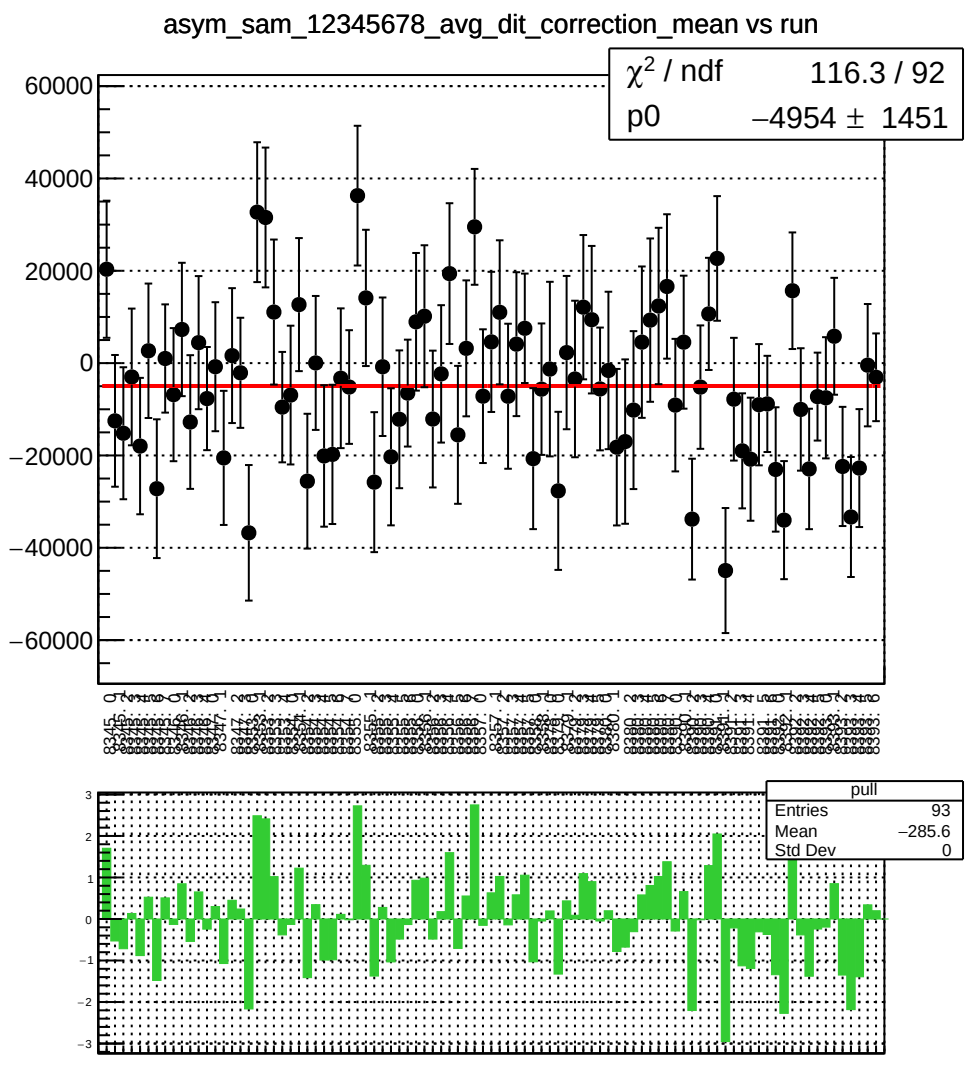

pull1D
Entries 93
Mean 0.01149
Std Dev 1.122

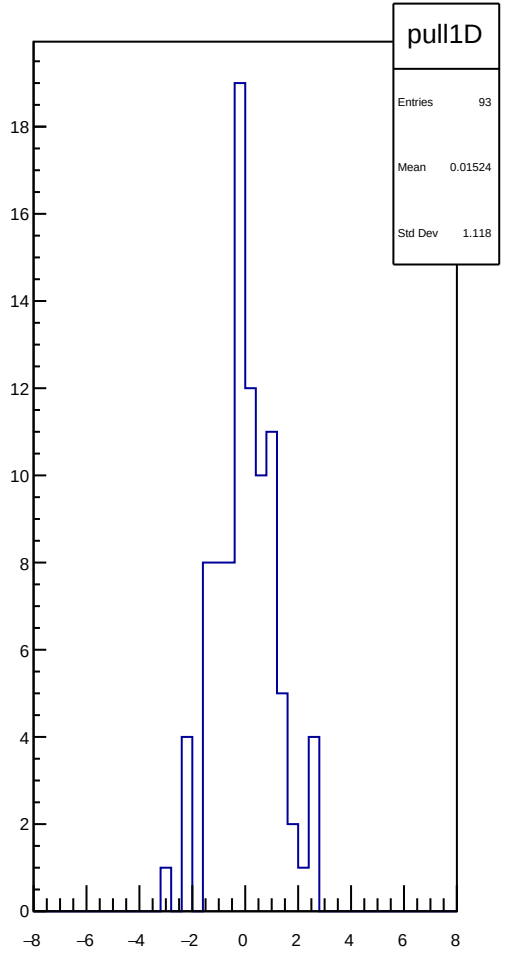

asym_sam_12345678_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.098e+04 / 92
p0 1374 ± 1.022
1700
1600
1500
1400
1300
1200

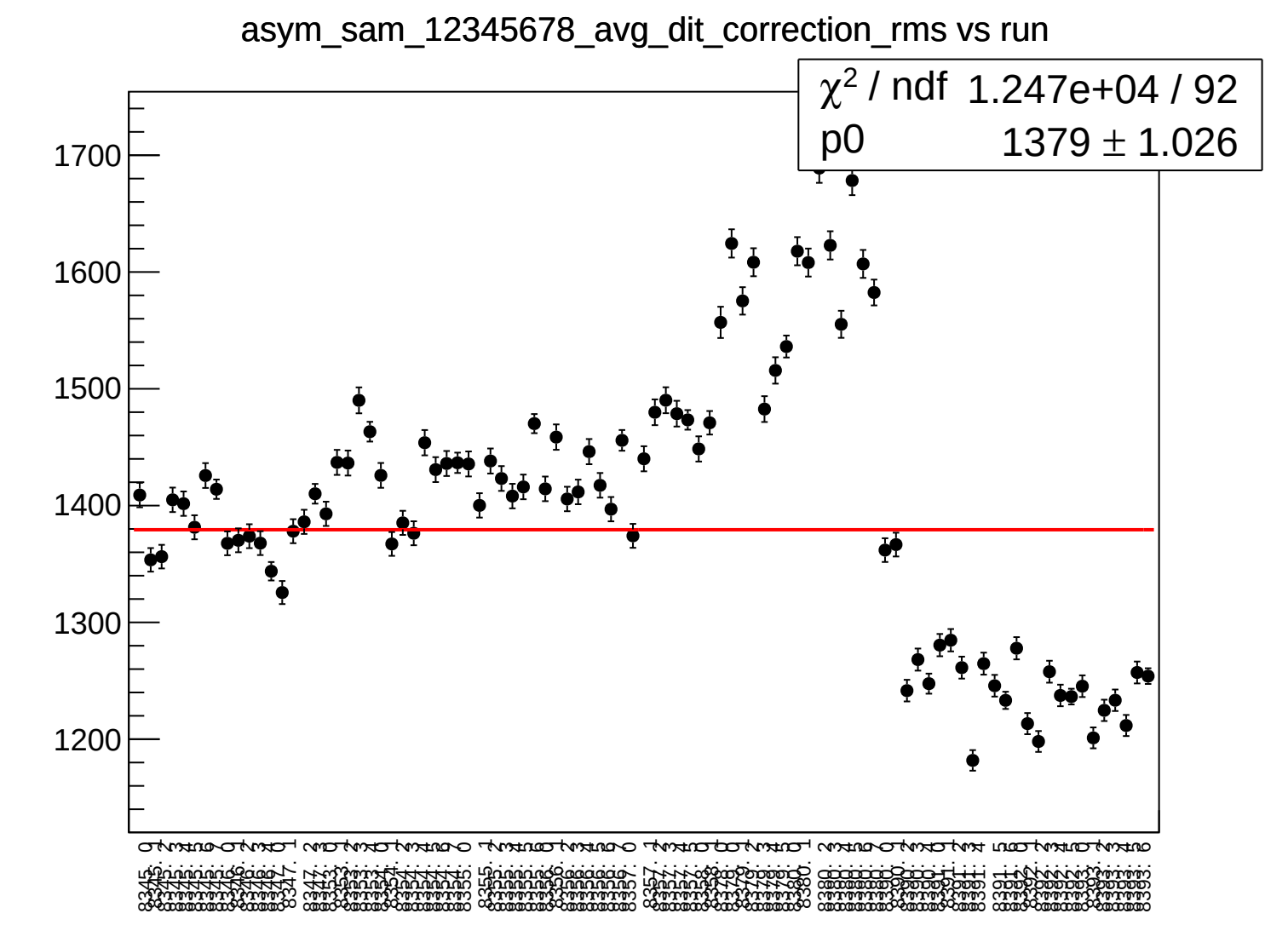

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 102 / 92
p0 −182.4 ± 116.2
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean −11.11
Std Dev 0
2
1
0
−1
−2

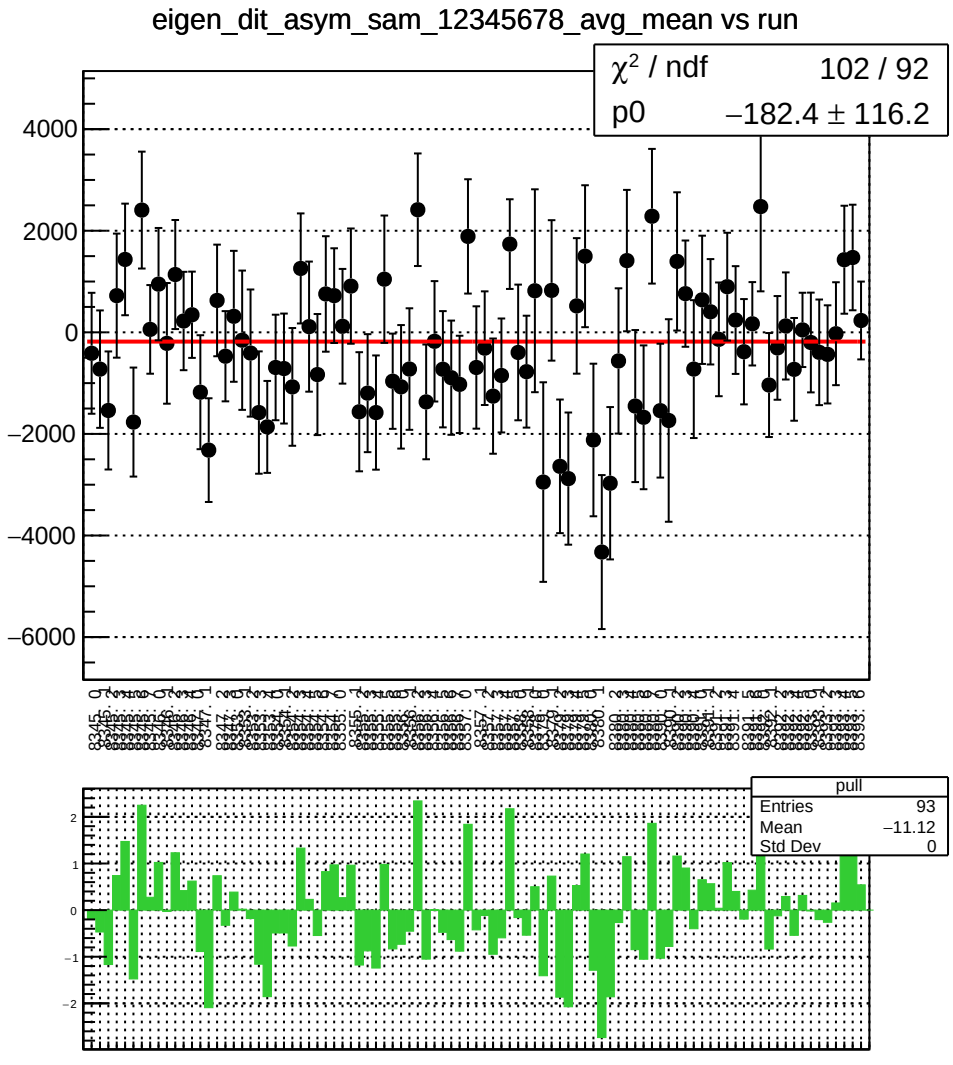

pull1D
Entries 93
Mean −0.03014
Std Dev 1.047
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

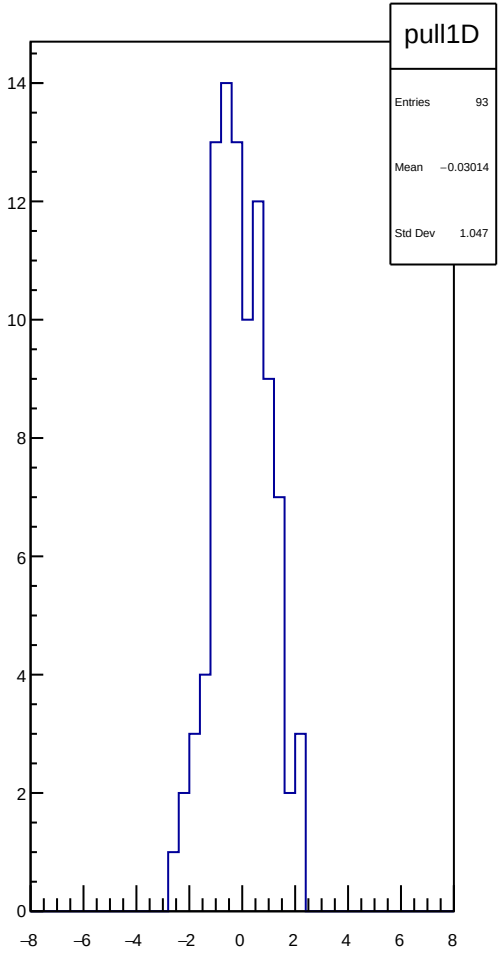

dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 3.138e+04 / 92
p0 109.8 ± 0.08215
200
180
160
140
120
100

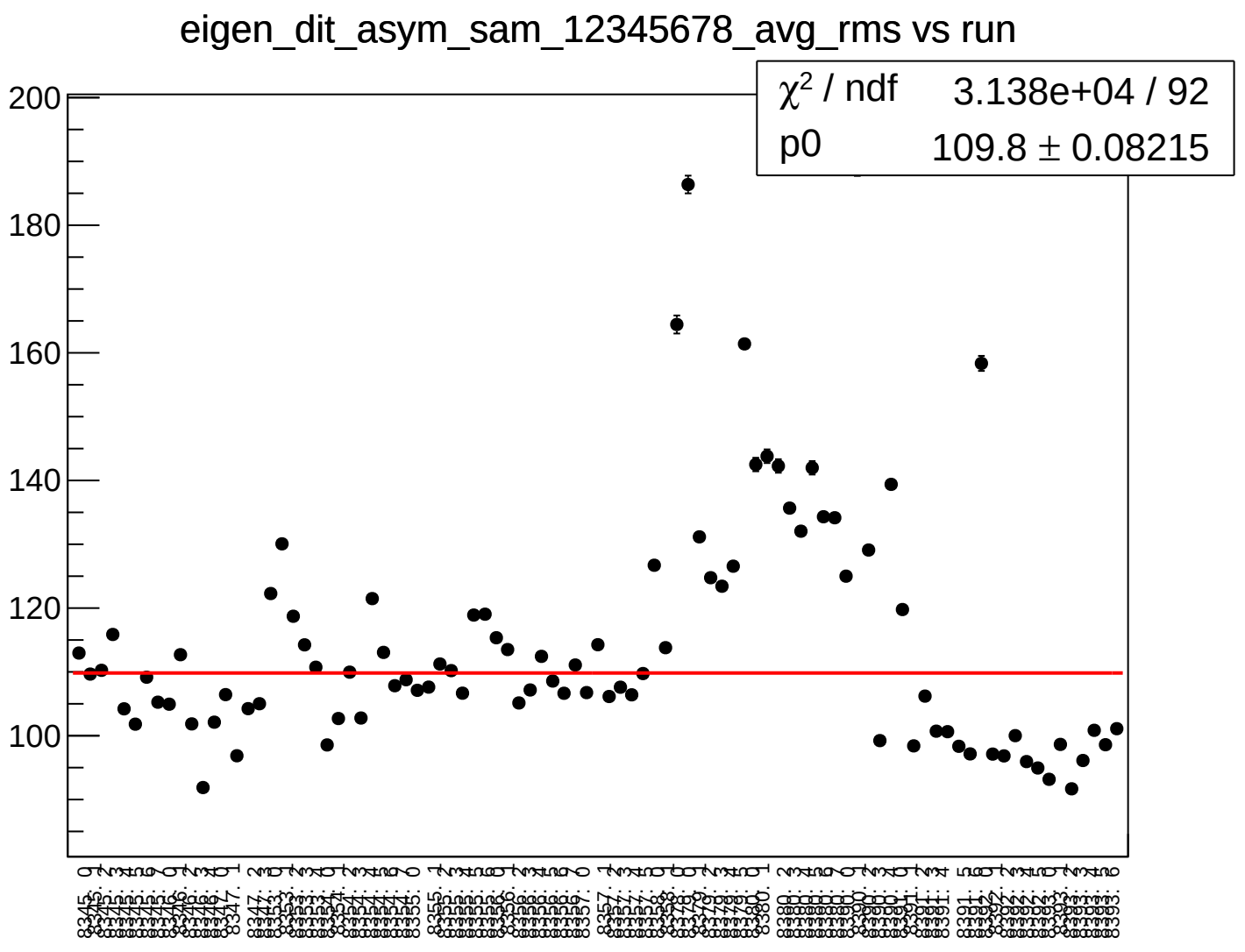

asym_sam_12345678_avg_dit_correction_mean vs run
χ² / ndf 116.3 / 92
p0 −4954 ± 1451
pull
Entries 93
Mean −285.6
Std Dev 0

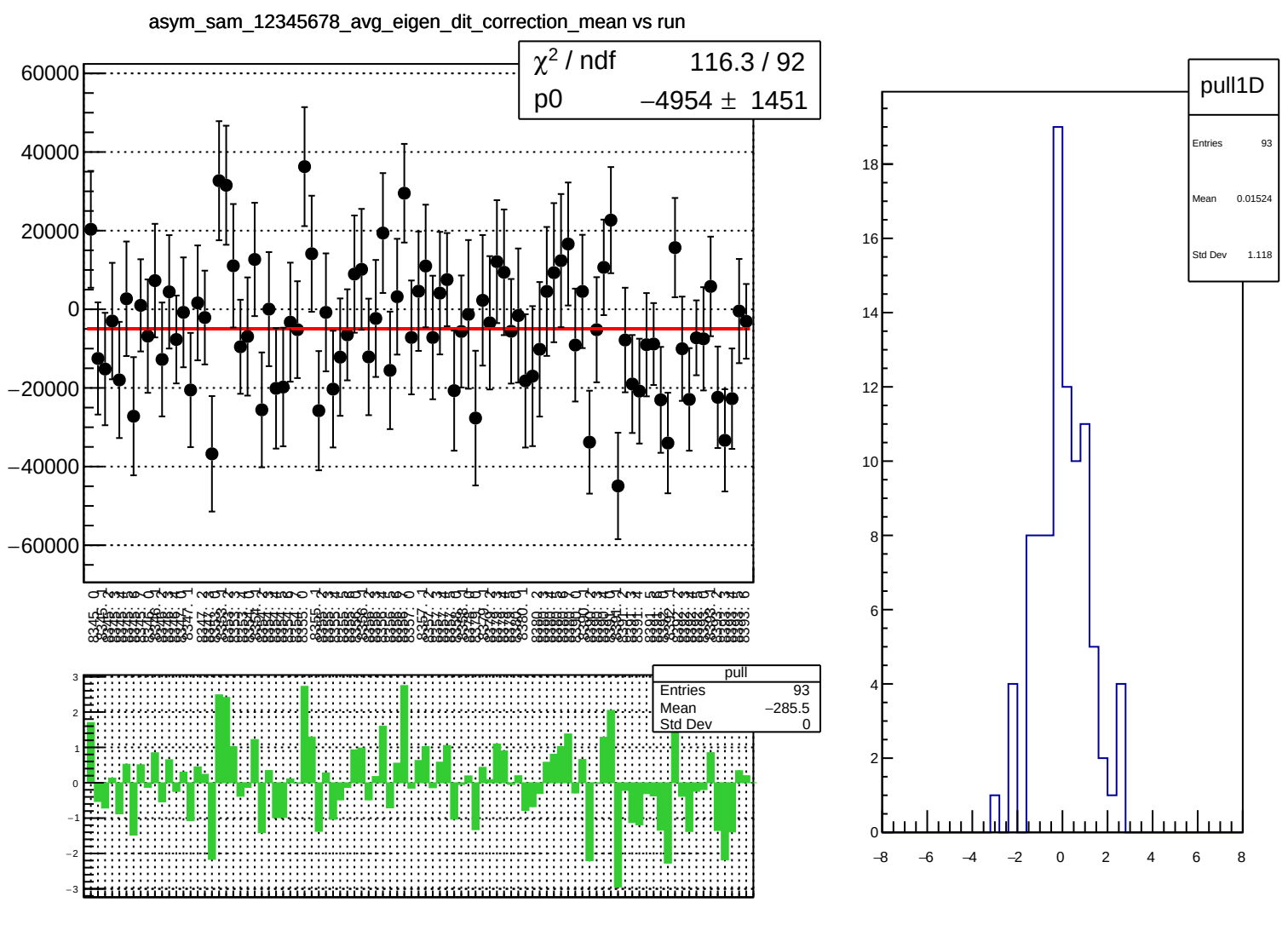

pull1D
Entries 93
Mean 0.01524
Std Dev 1.118

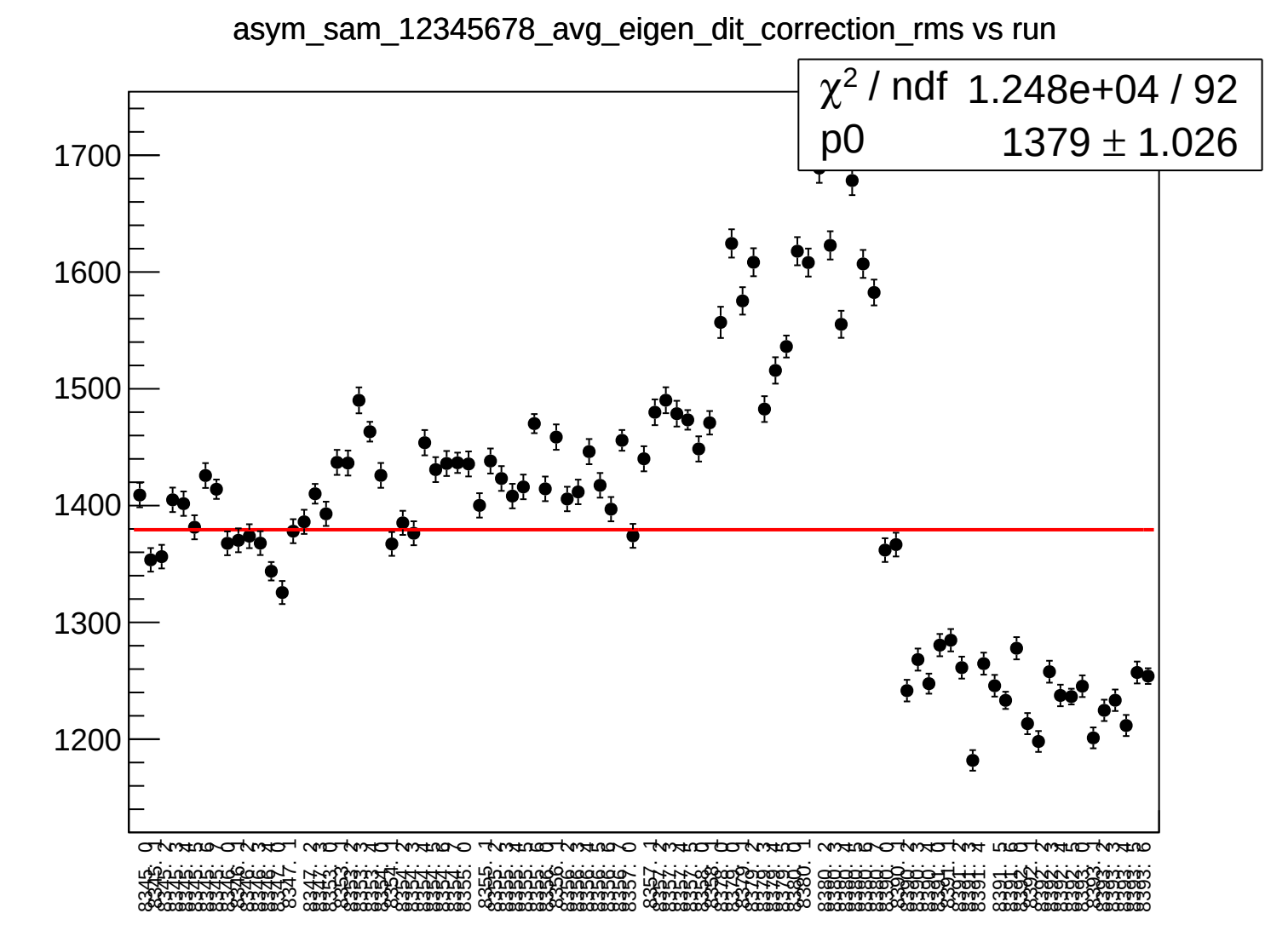

asym_sam_12345678_avg_dit_correction_rms vs run
χ² / ndf 1.247e+04 / 92
p0 1379 ± 1.026
1700
1600
1500
1400
1300
1200

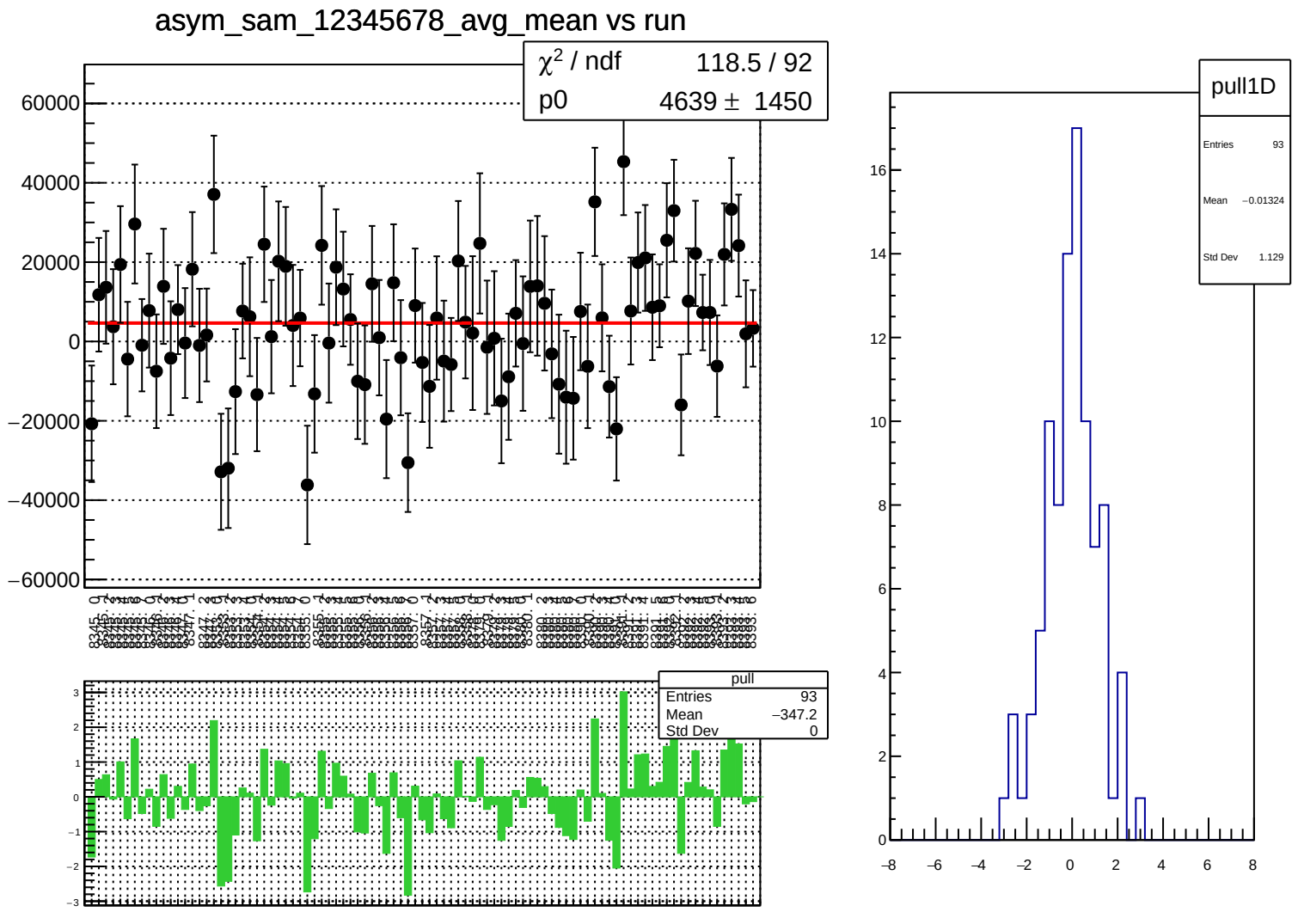

eigen_dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 102 / 92
p0 −182.4 ± 116.2
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean −11.12
Std Dev 0
2
1
0
−1
−2

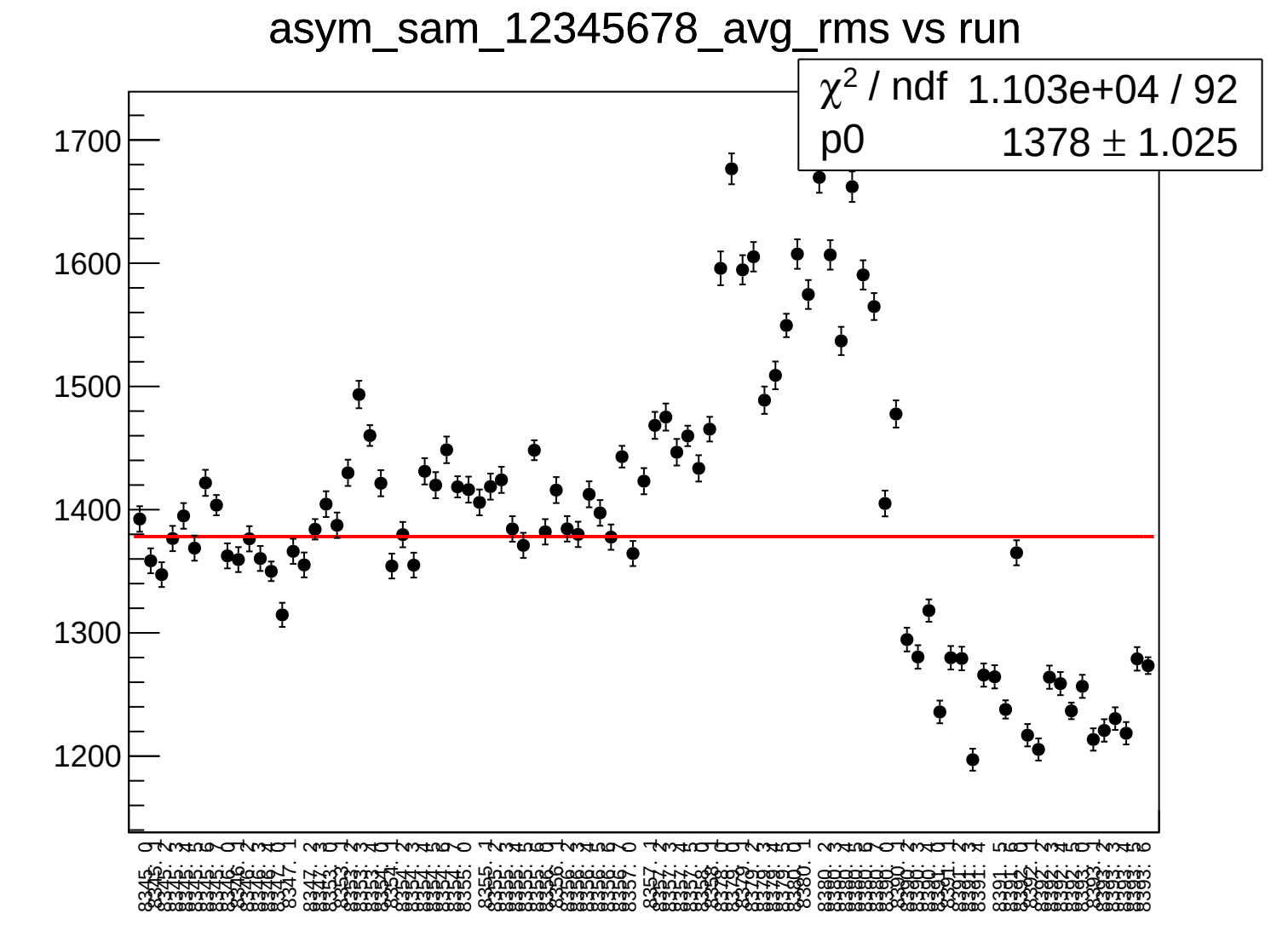

pull1D
Entries 93
Mean −0.03014
Std Dev 1.047
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

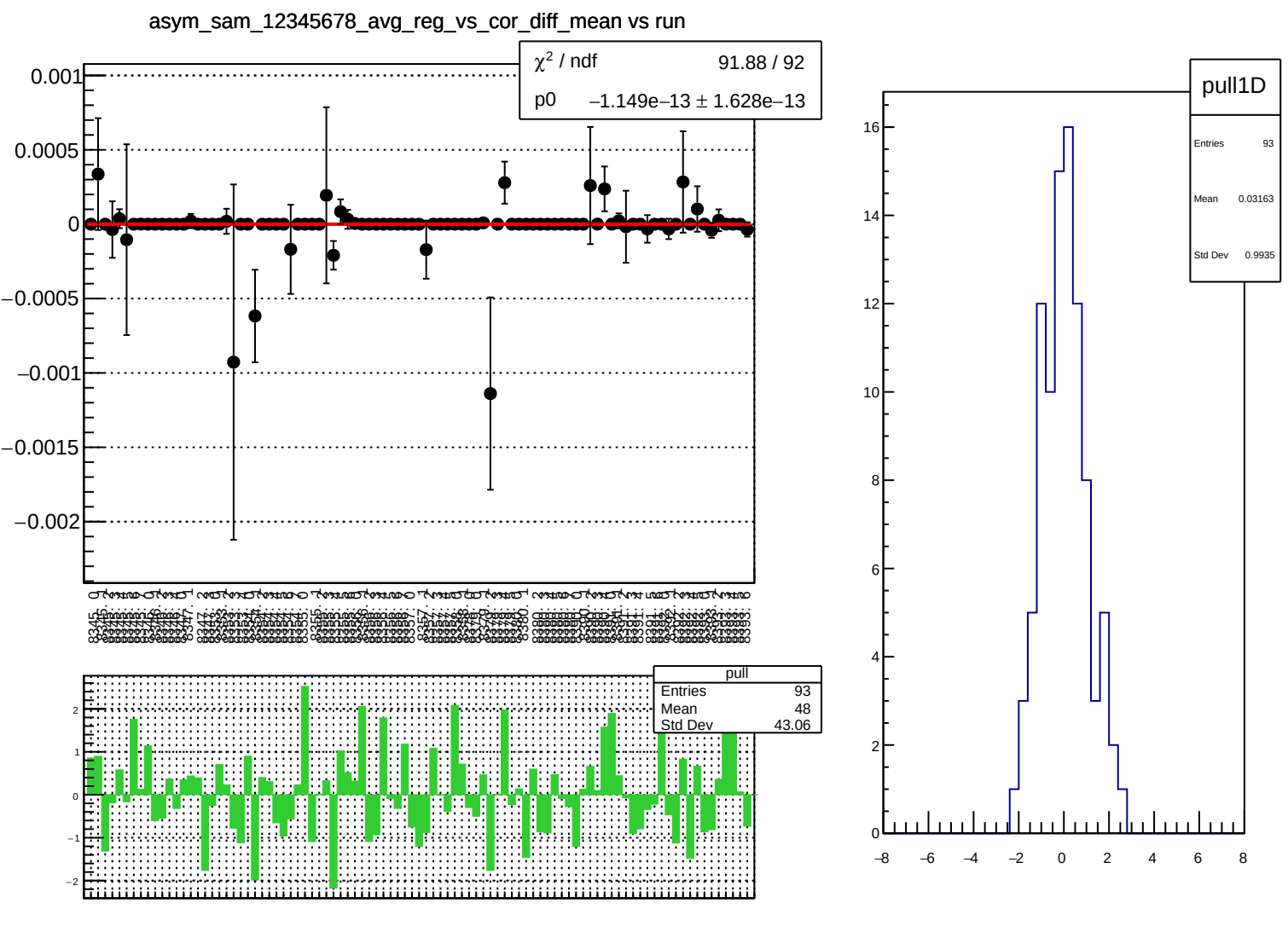

eigen_dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 3.138e+04 / 92
p0 109.8 ± 0.08215
200
180
160
140
120
100

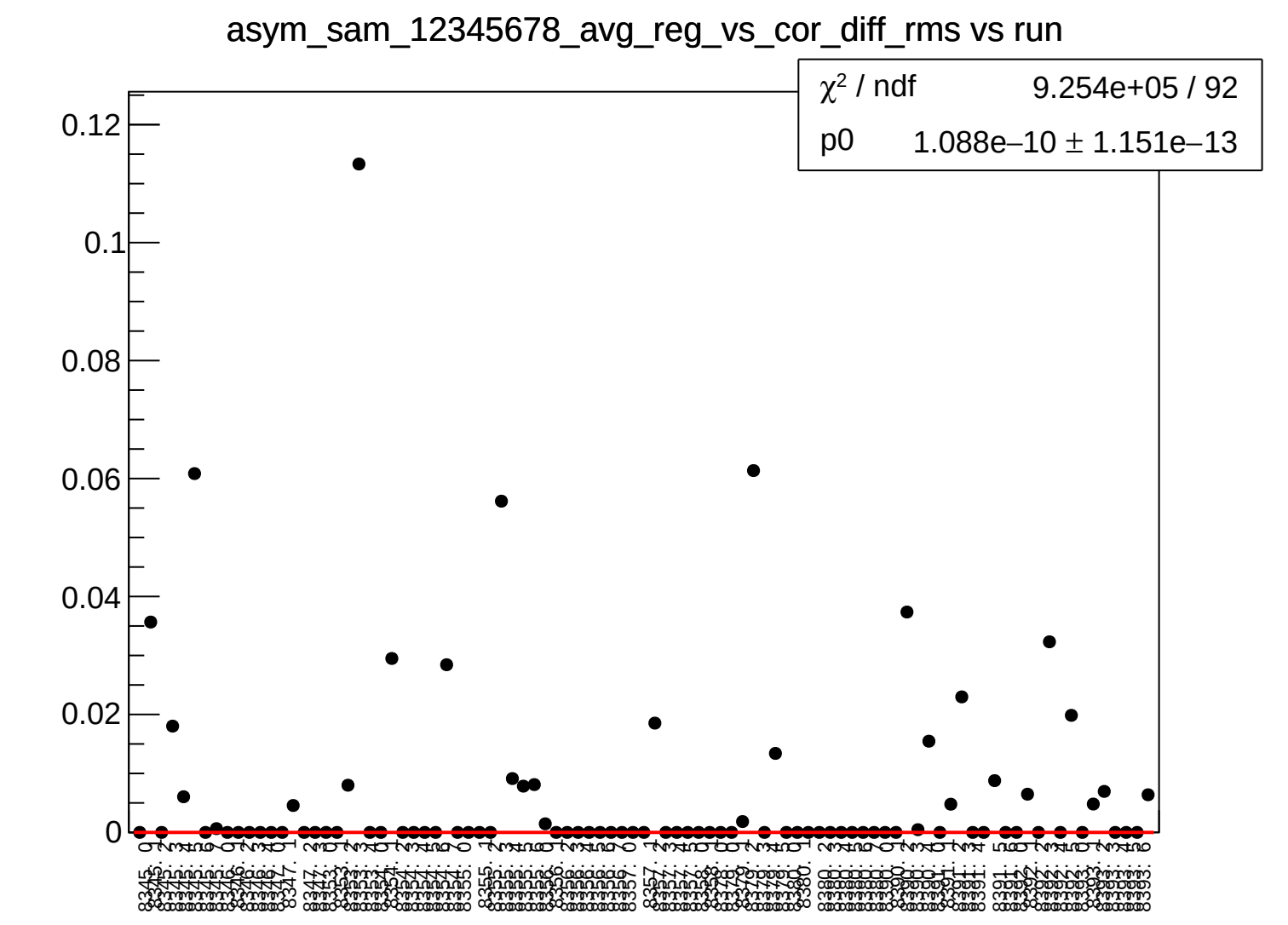

asym_sam_12345678_avg_eigen_dit_correction_mean vs run
χ² / ndf 116.3 / 92
p0 −4954 ± 1451
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −285.5
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.01524
Std Dev 1.118
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

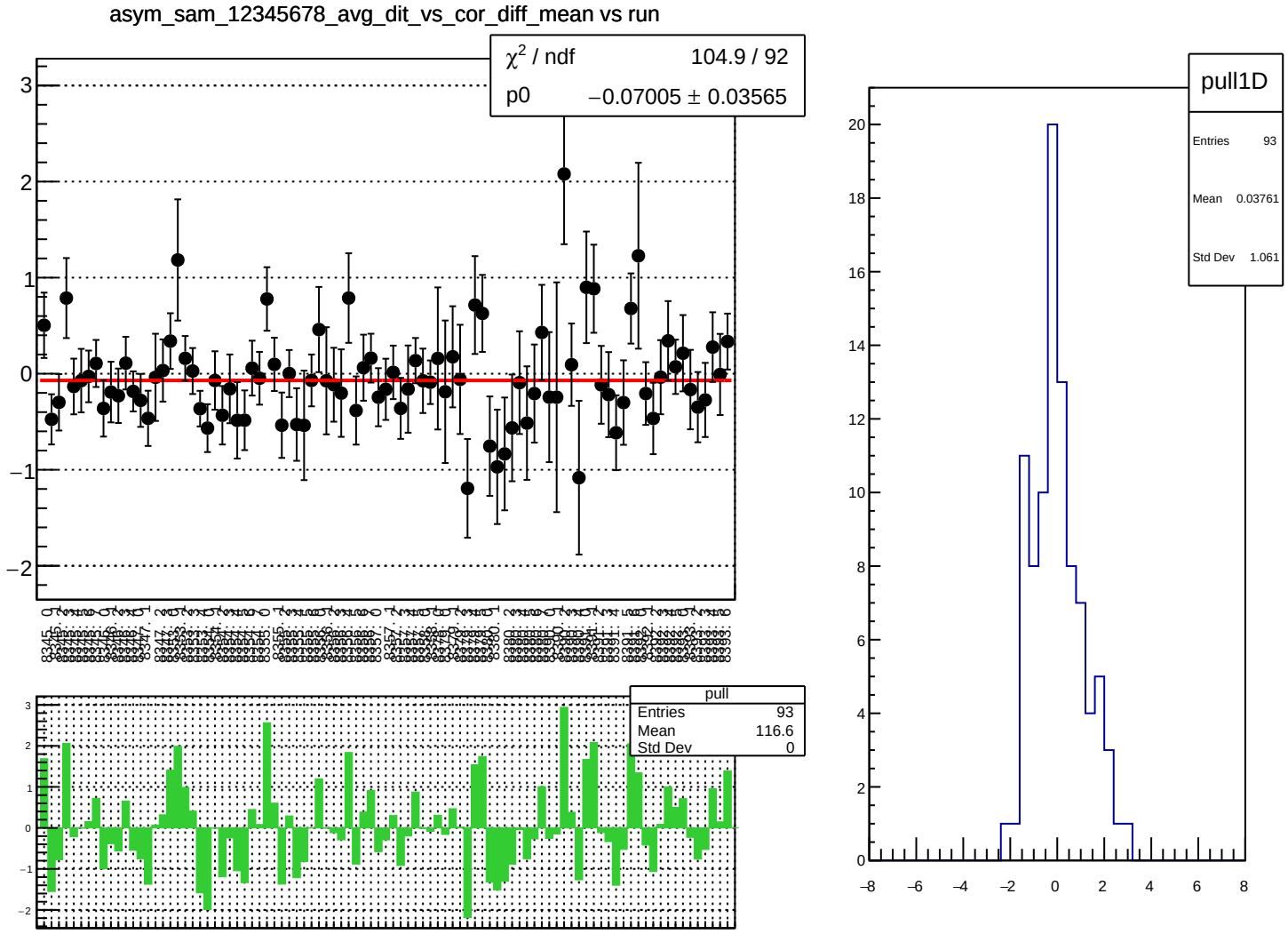

asym_sam_12345678_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.248e+04 / 92
p0 1379 ± 1.026
1700
1600
1500
1400
1300
1200

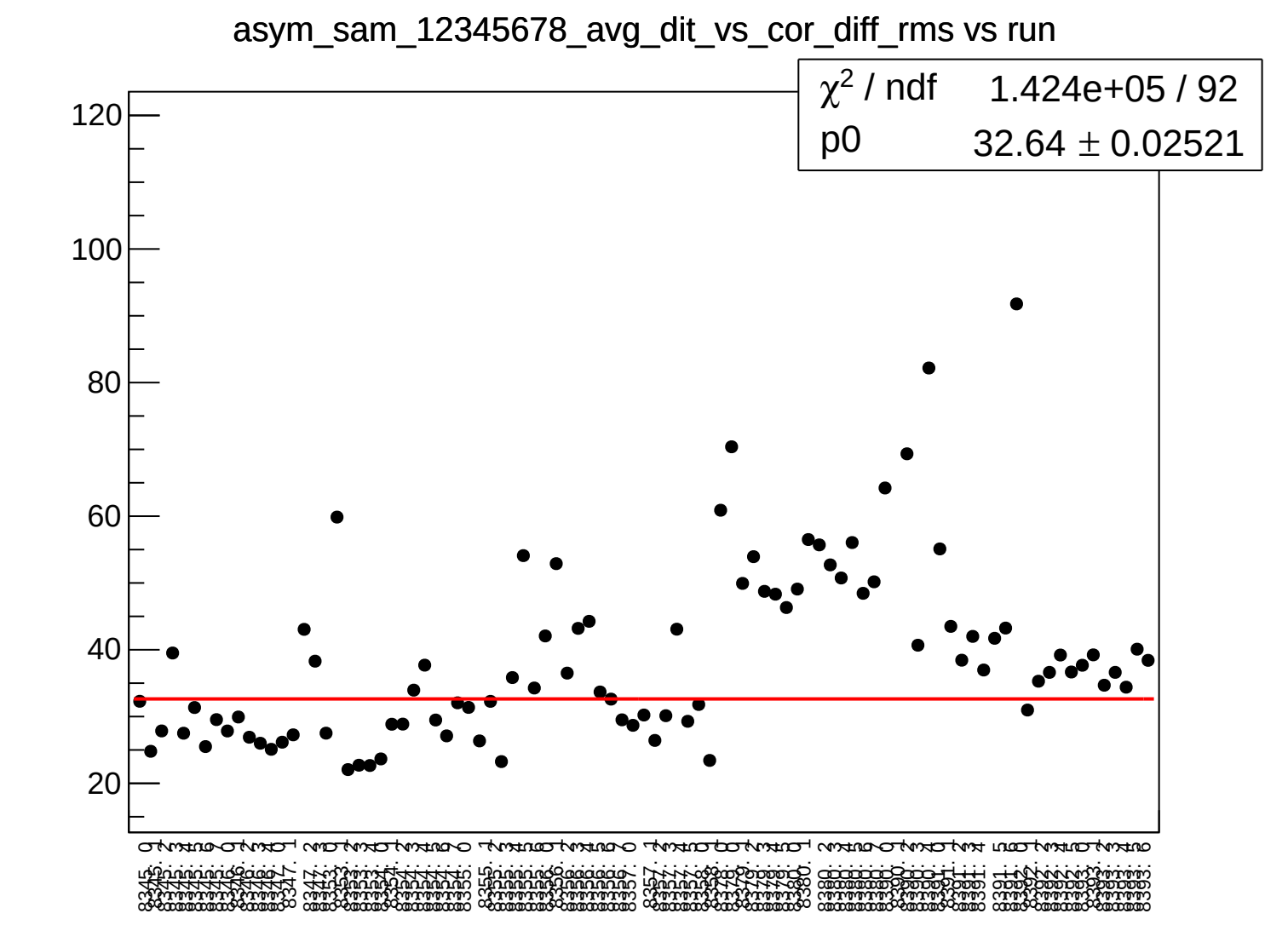

asym_sam_12345678_avg_mean vs run
χ² / ndf 118.5 / 92
p0 4639 ± 1450
pull
Entries 93
Mean −347.2
Std Dev 0
pull1D
Entries 93
Mean −0.01324
Std Dev 1.129

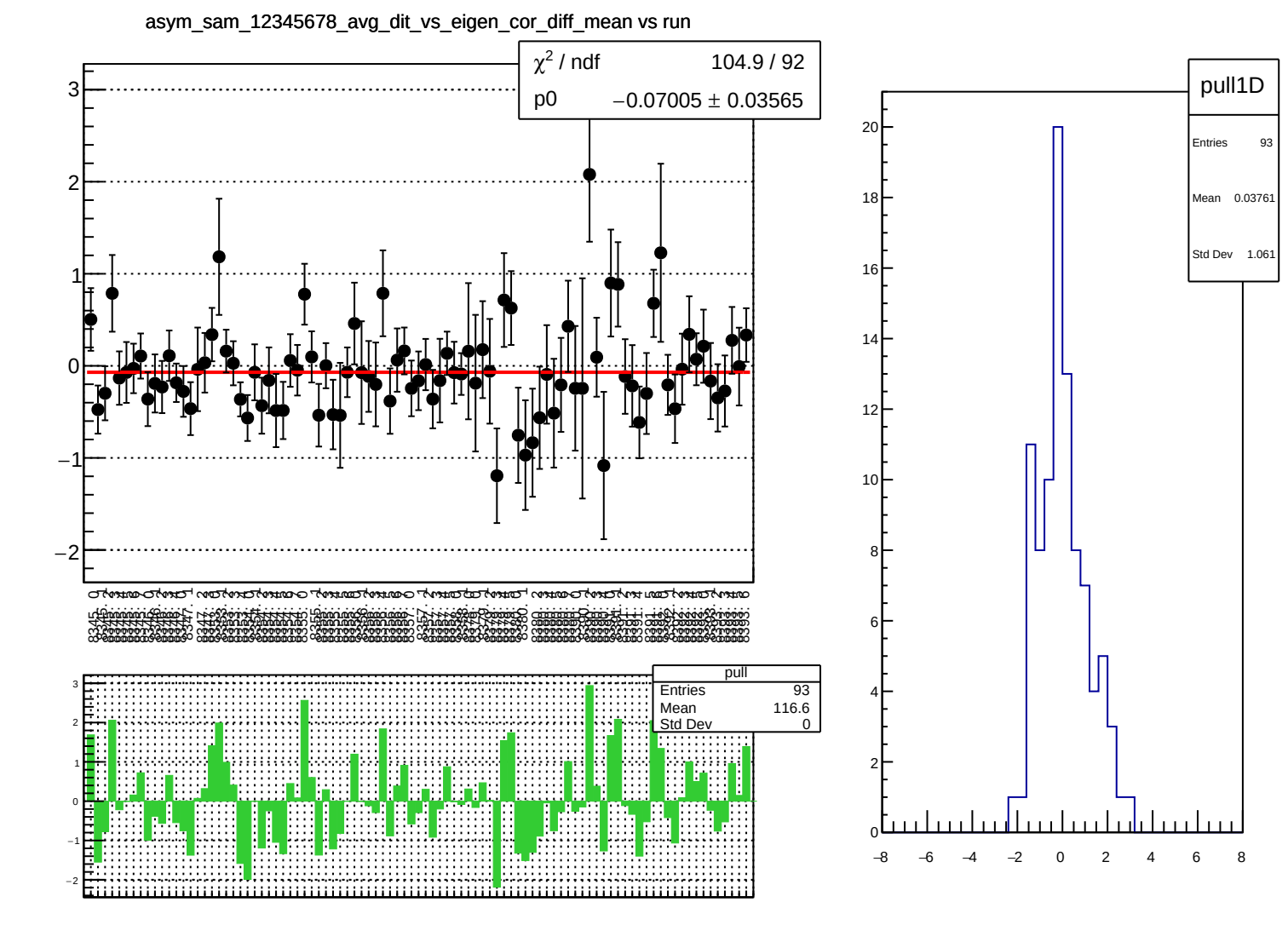

asym_sam_12345678_avg_rms vs run
χ² / ndf 1.103e+04 / 92
p0 1378 ± 1.025
1700
1600
1500
1400
1300
1200

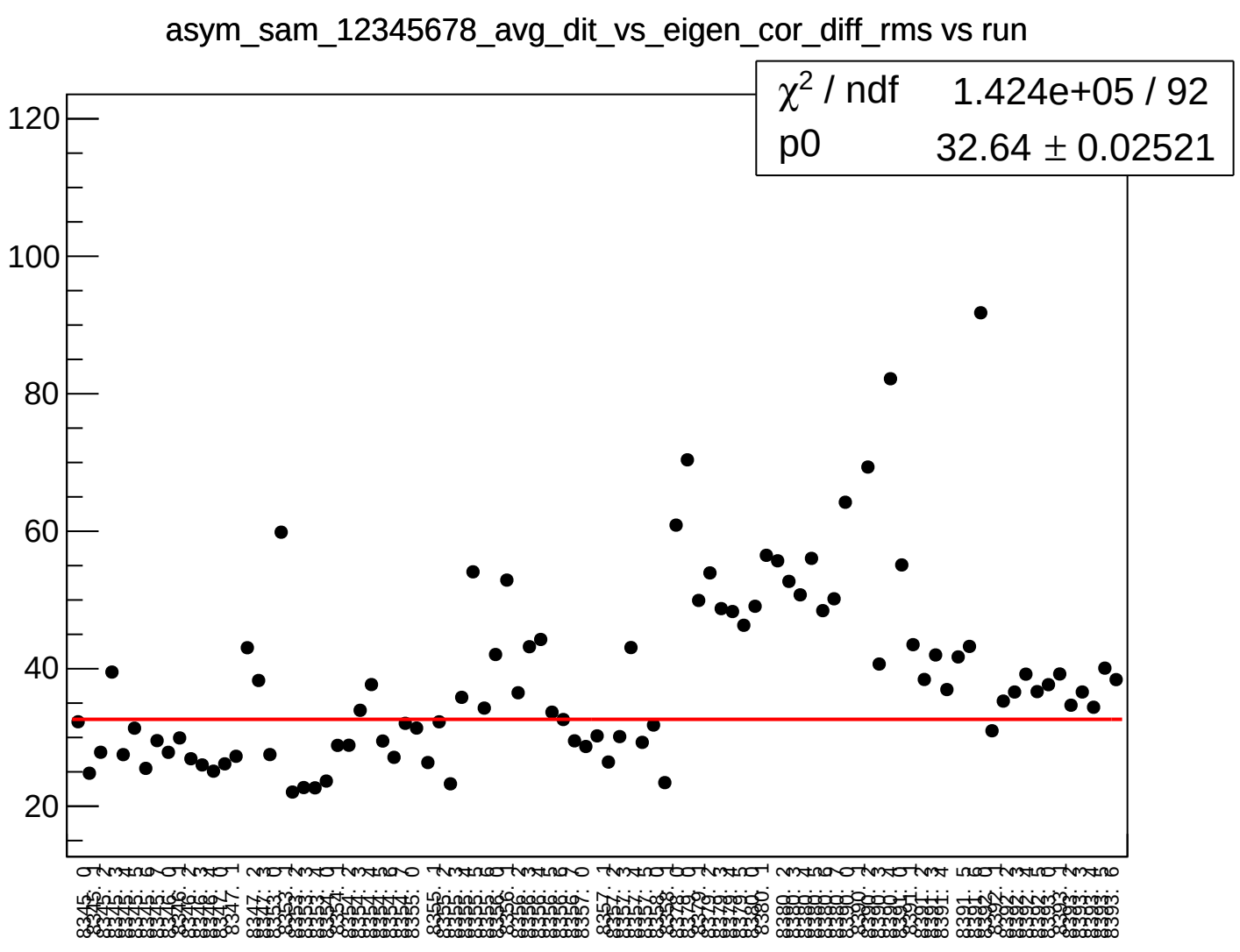

asym_sam_12345678_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 91.88 / 92
p0 −1.149e−13 ± 1.628e−13
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 93
Mean 48
Std Dev 43.06
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.03163
Std Dev 0.9935
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

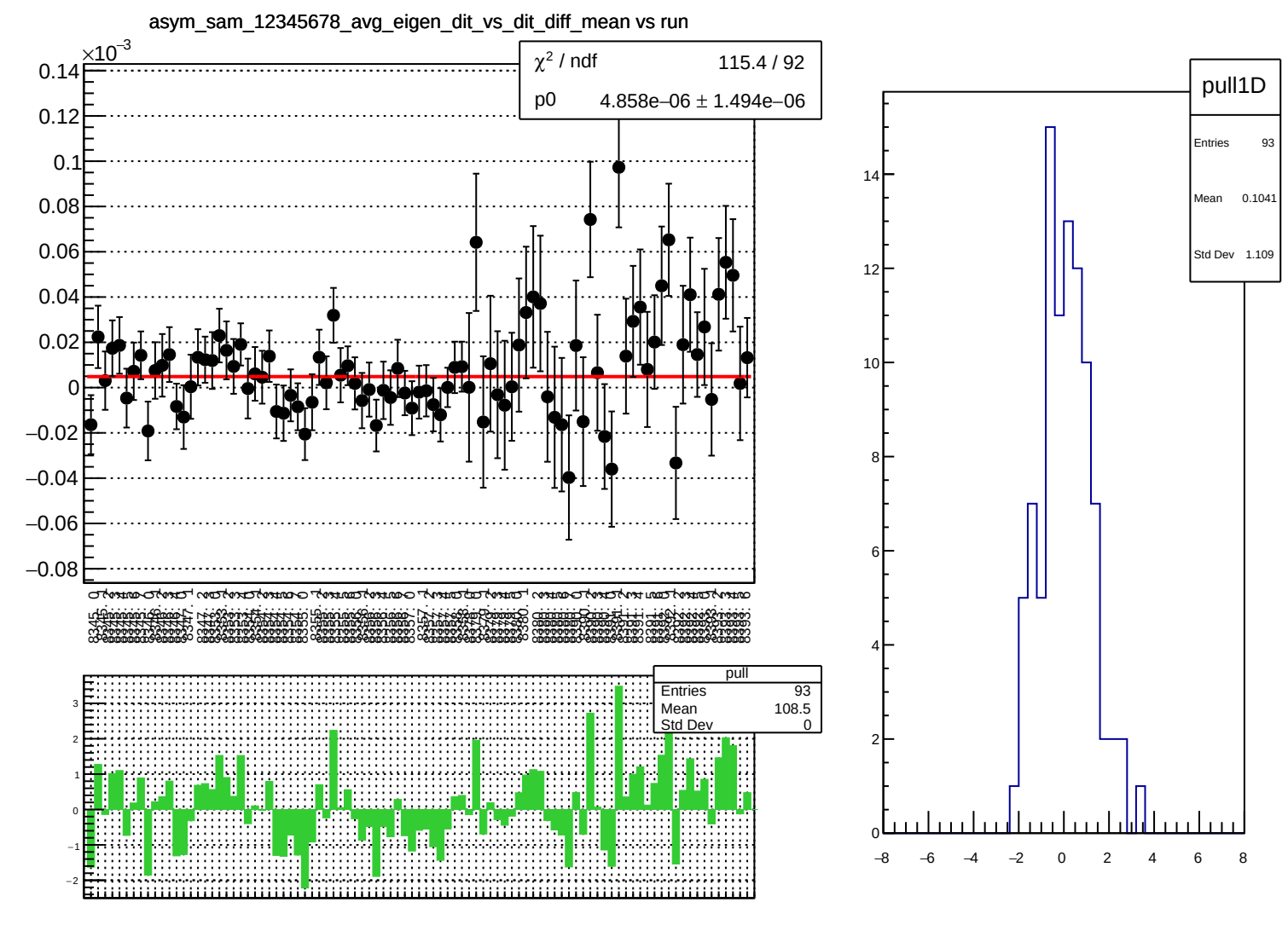

asym_sam_12345678_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.254e+05 / 92
p0 1.088e−10 ± 1.151e−13
0.12
0.1
0.08
0.06
0.04
0.02
0

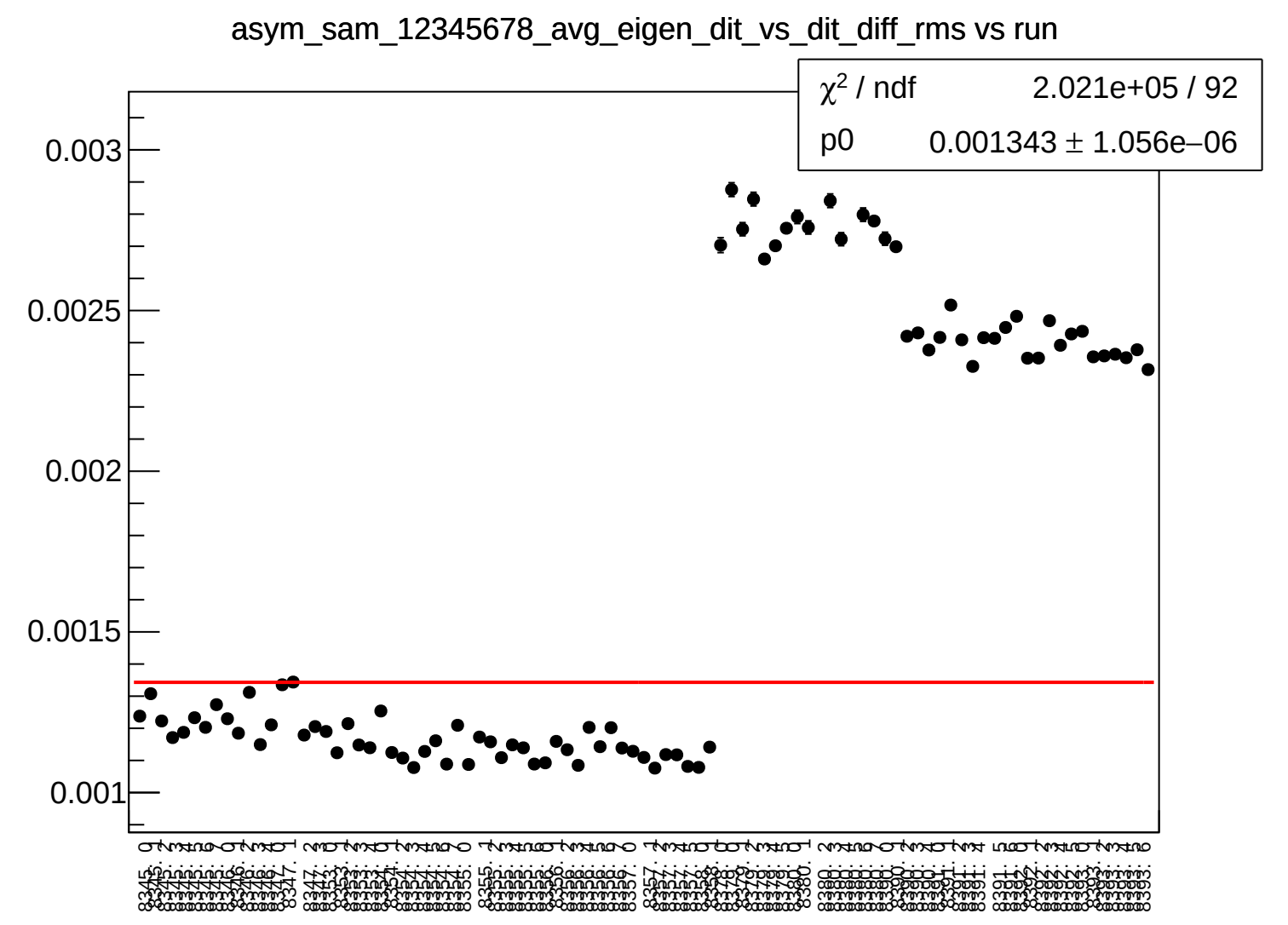

asym_sam_12345678_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 104.9 / 92
p0 −0.07005 ± 0.03565
pull
Entries 93
Mean 116.6
Std Dev 0
pull1D
Entries 93
Mean 0.03761
Std Dev 1.061

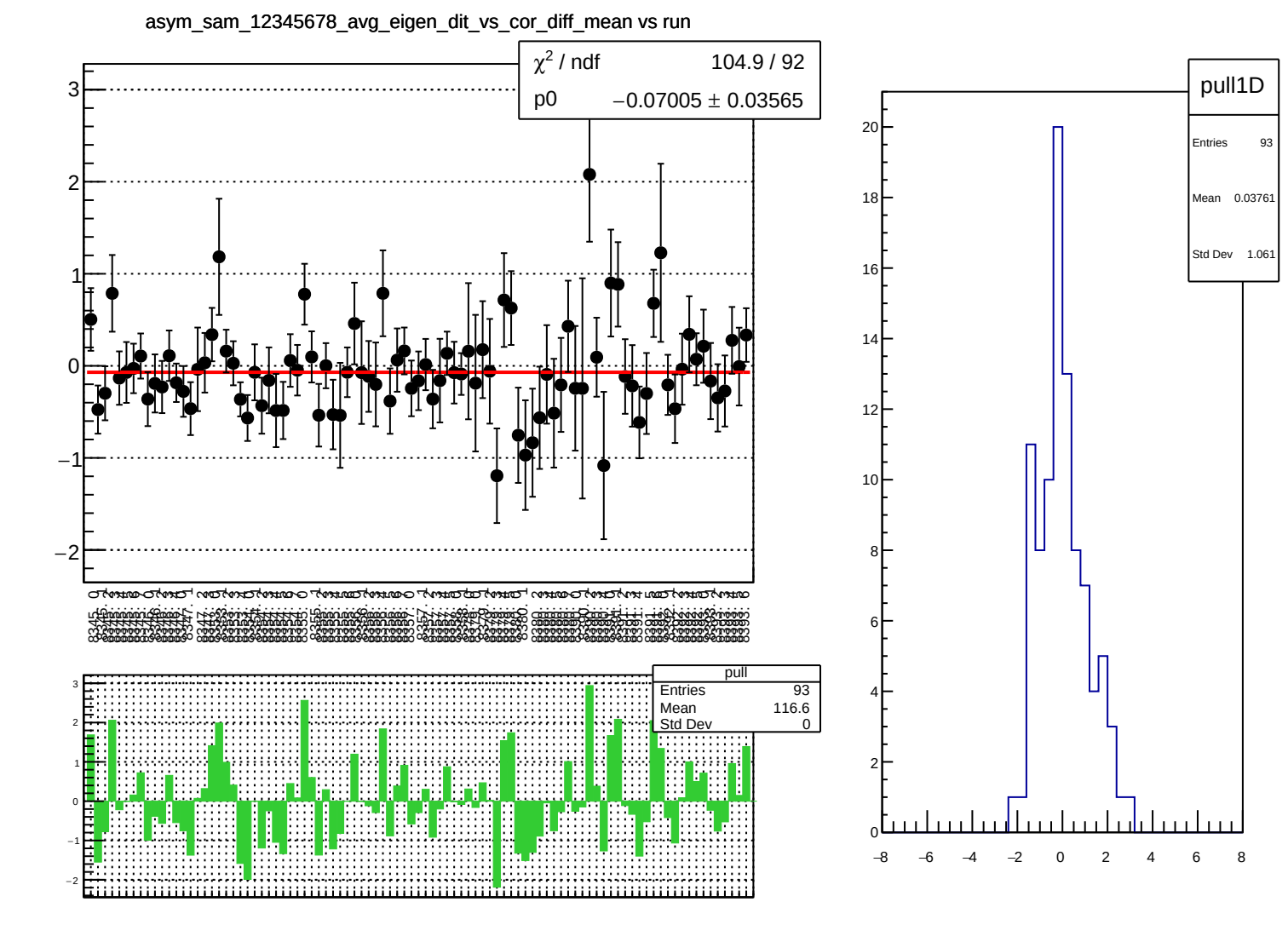

asym_sam_12345678_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.424e+05 / 92
p0 32.64 ± 0.02521
120
100
80
60
40
20

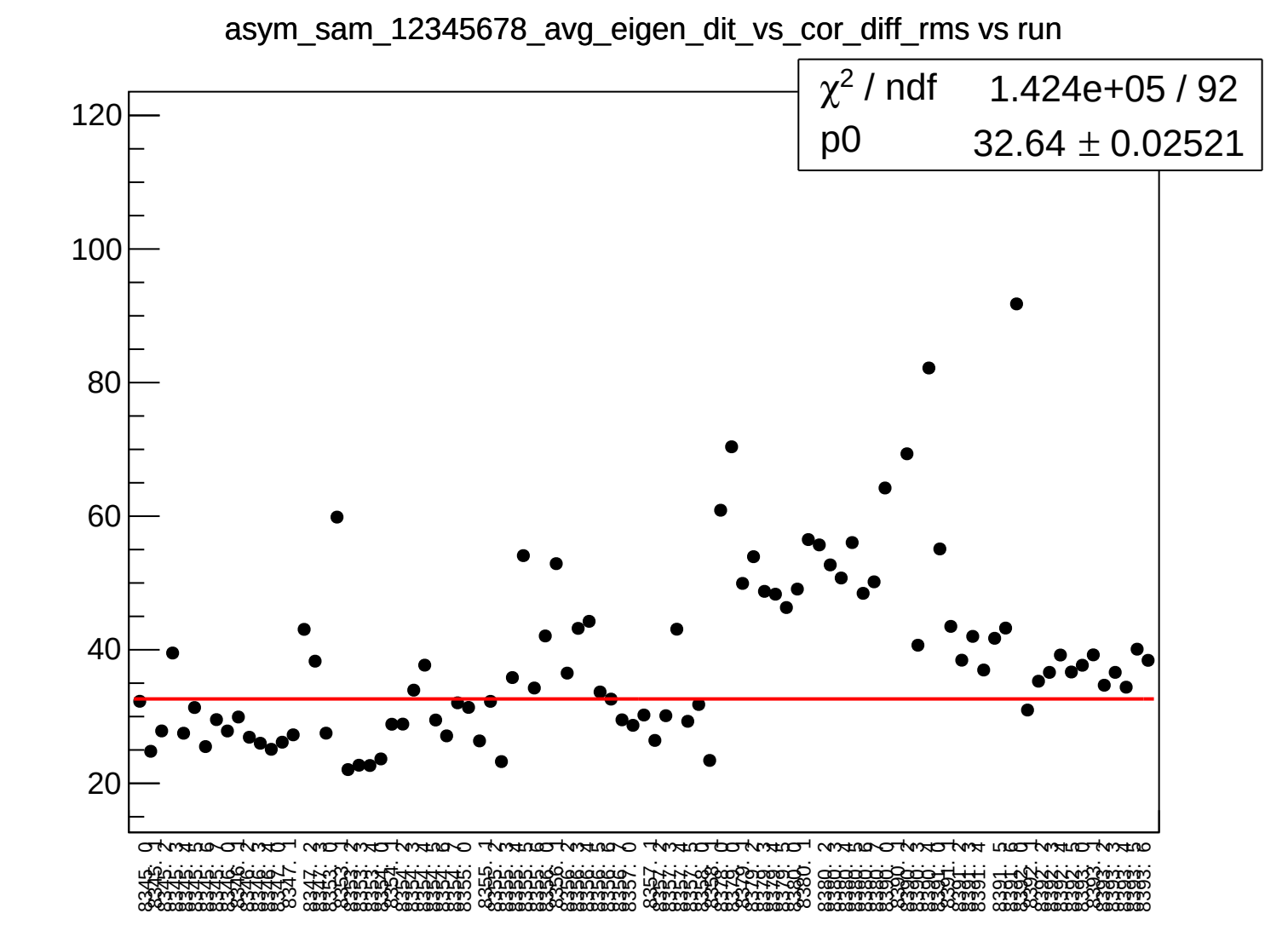

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.9 / 92
p0 −0.07005 ± 0.03565
pull
Entries 93
Mean 116.6
Std Dev 0
pull1D
Entries 93
Mean 0.03761
Std Dev 1.061

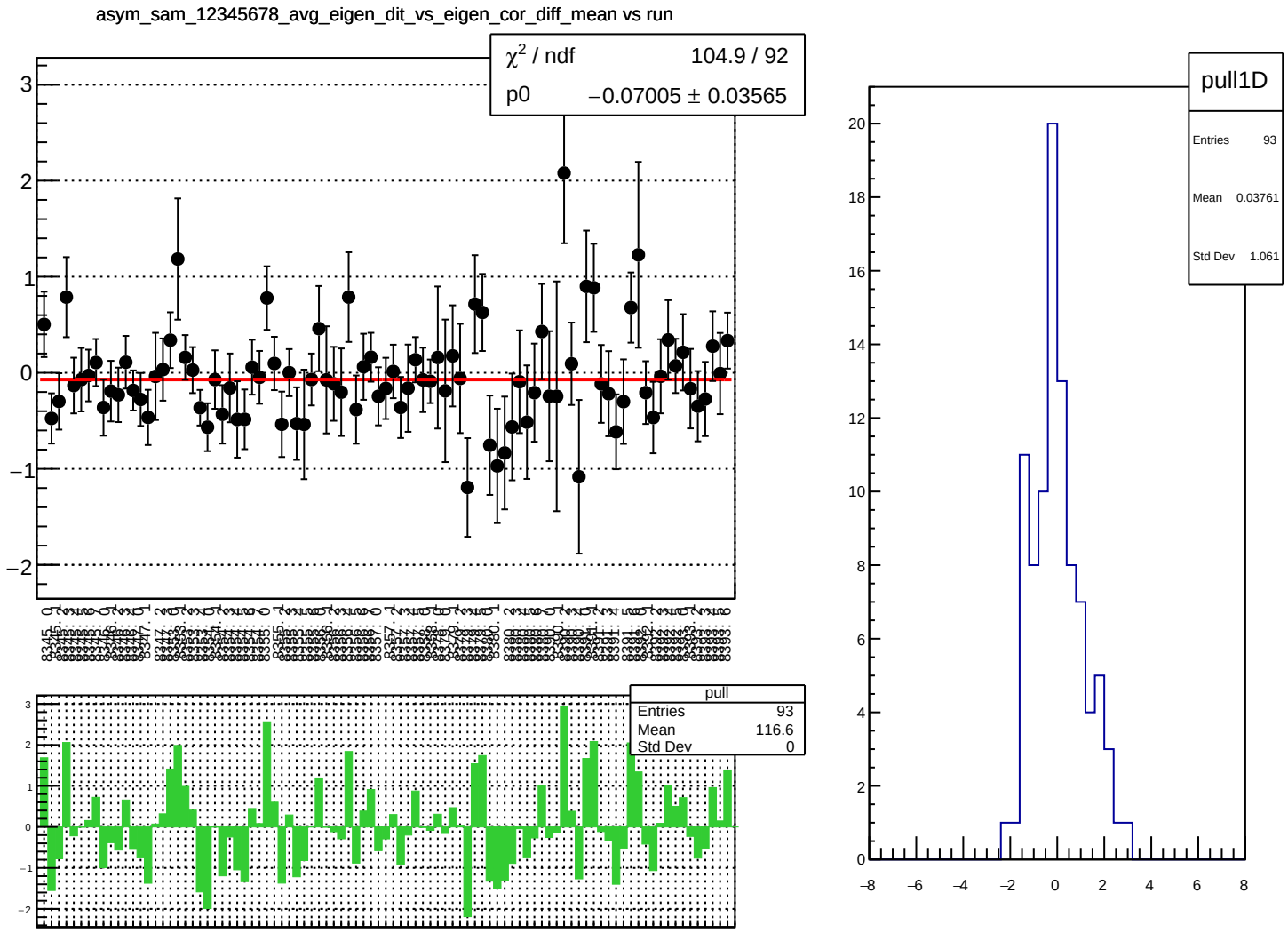

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.424e+05 / 92
p0 32.64 ± 0.02521
120
100
80
60
40
20

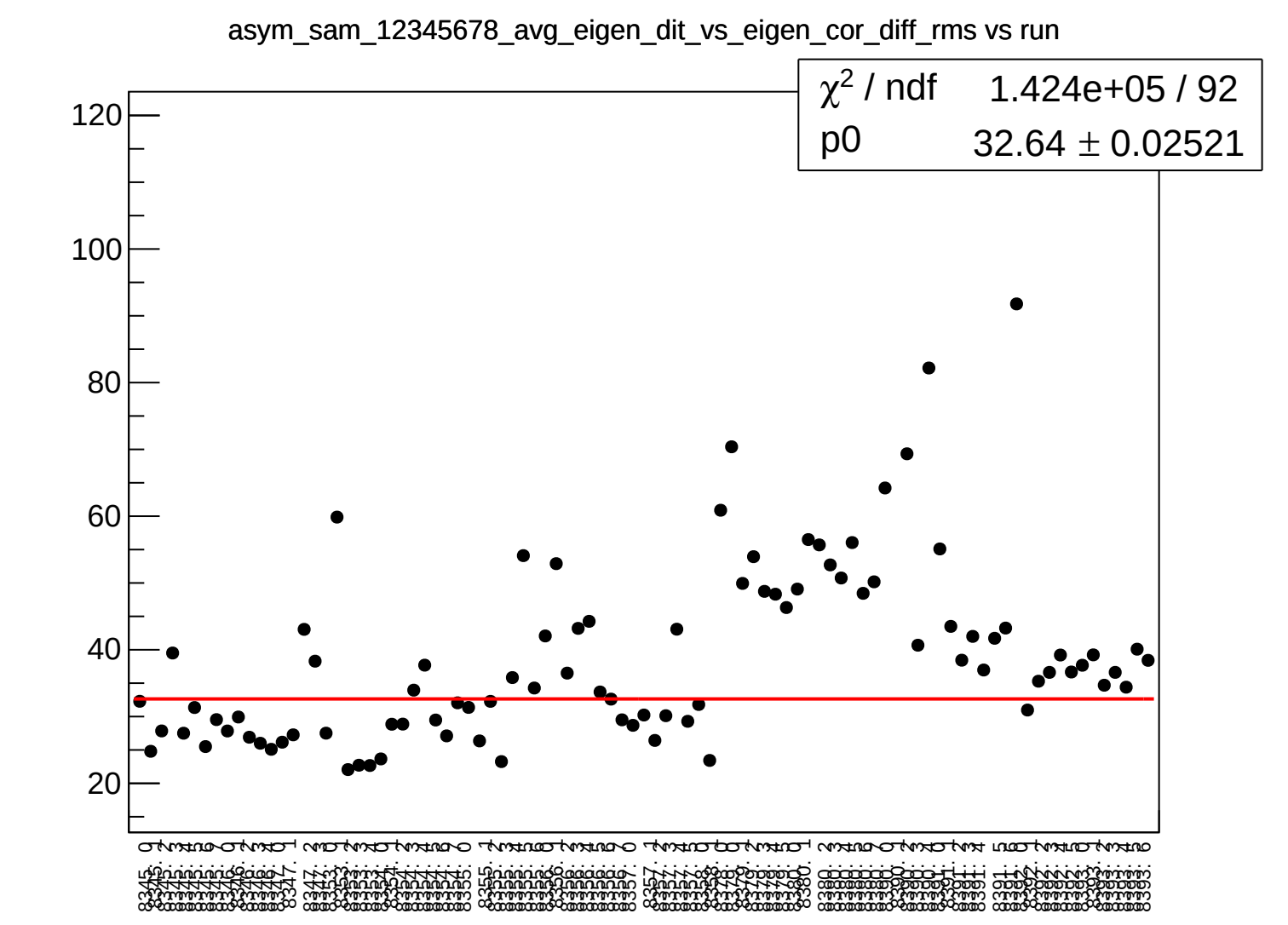

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 115.4 / 92
p0 4.858e−06 ± 1.494e−06
pull
Entries 93
Mean 108.5
Std Dev 0
pull1D
Entries 93
Mean 0.1041
Std Dev 1.109

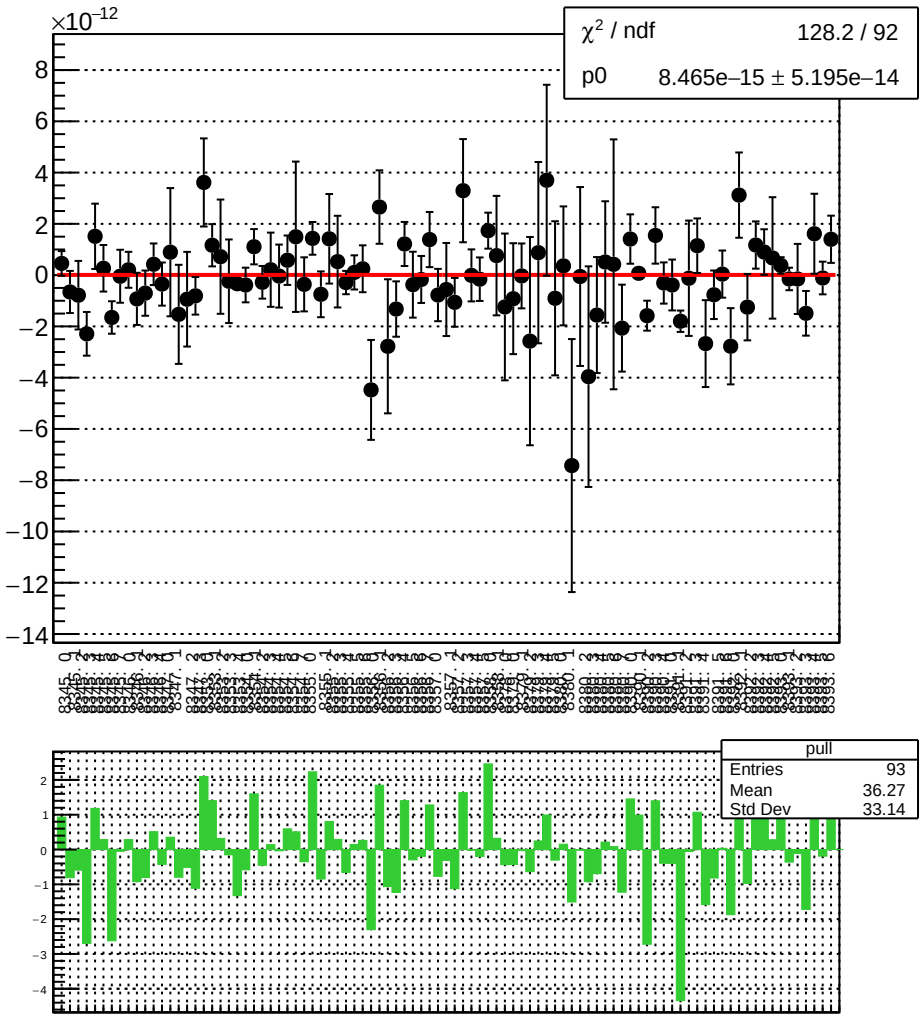

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.021e+05 / 92
p0 0.001343 ± 1.056e−06
0.003
0.0025
0.002
0.0015
0.001

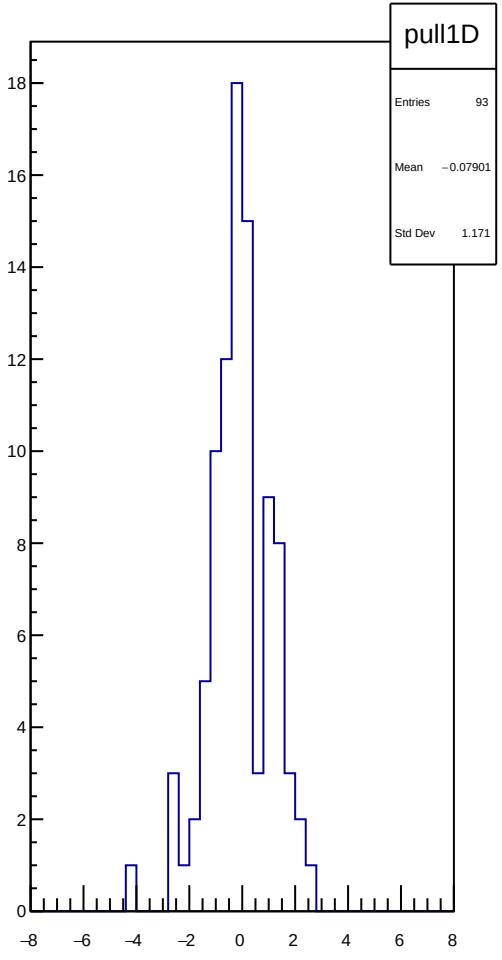

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104.9 / 92
p0 −0.07005 ± 0.03565
pull
Entries 93
Mean 116.6
Std Dev 0
pull1D
Entries 93
Mean 0.03761
Std Dev 1.061

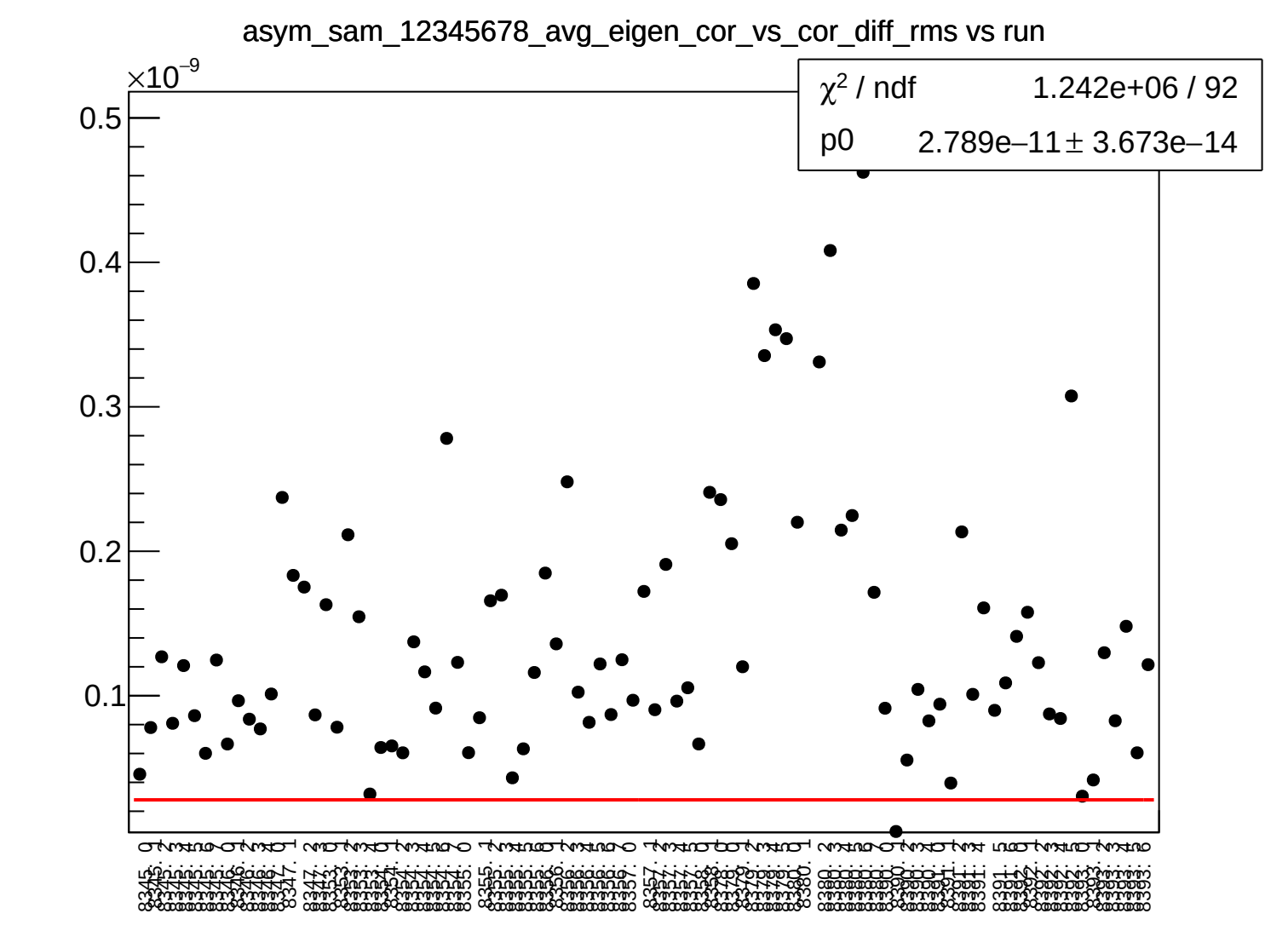

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.424e+05 / 92
p0 32.64 ± 0.02521
120
100
80
60
40
20

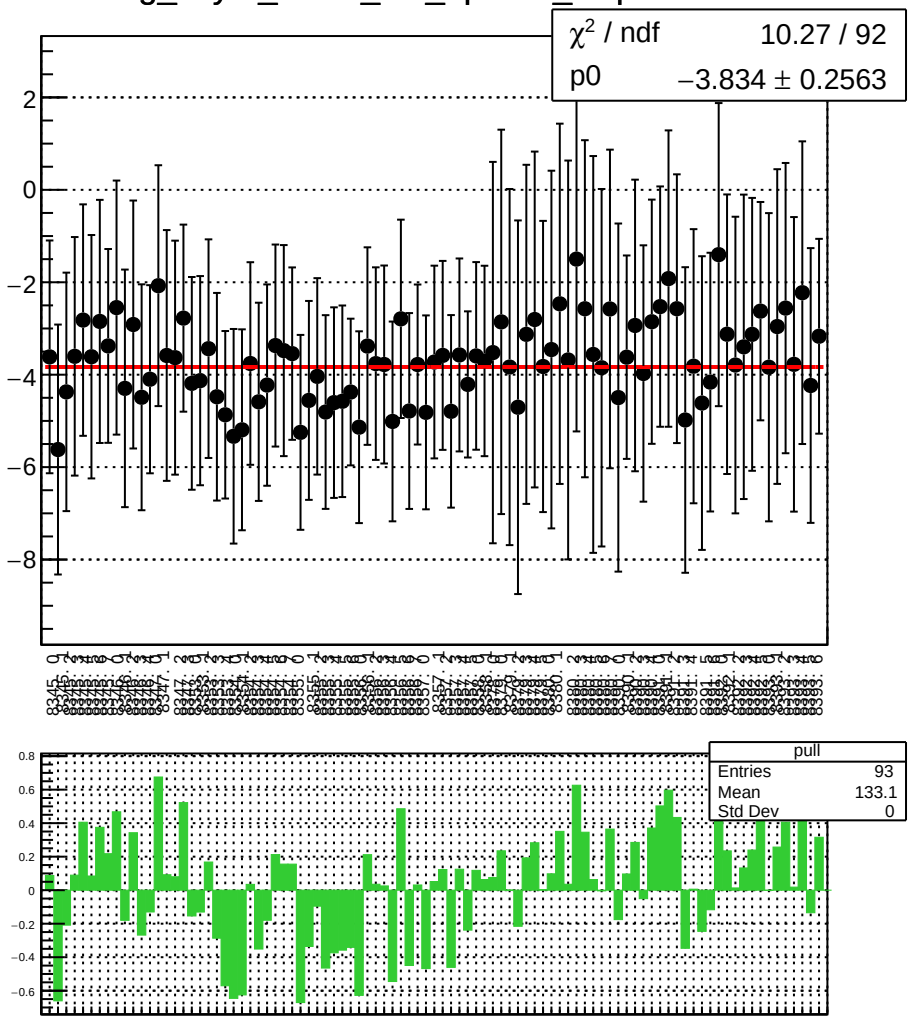

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.9 / 92
p0 −0.07005 ± 0.03565
pull
Entries 93
Mean 116.6
Std Dev 0
pull1D
Entries 93
Mean 0.03761
Std Dev 1.061

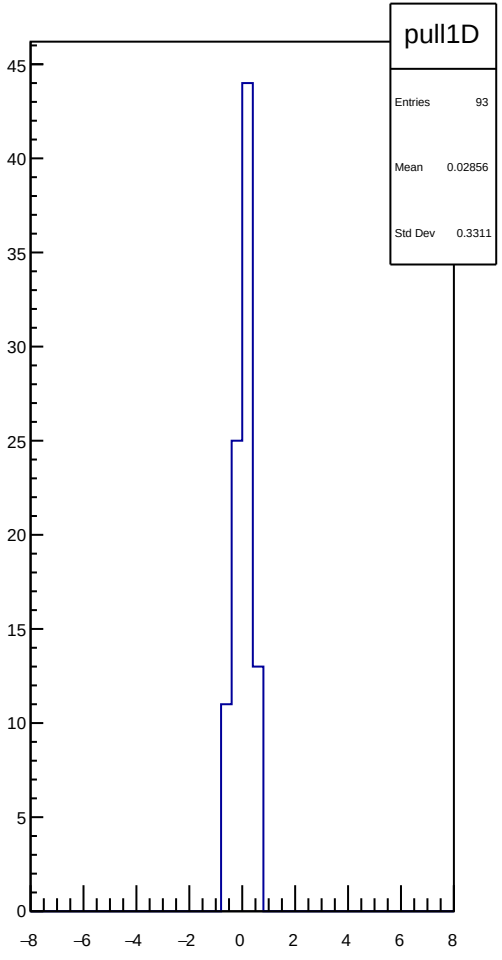

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.424e+05 / 92
p0 32.64 ± 0.02521
120
100
80
60
40
20

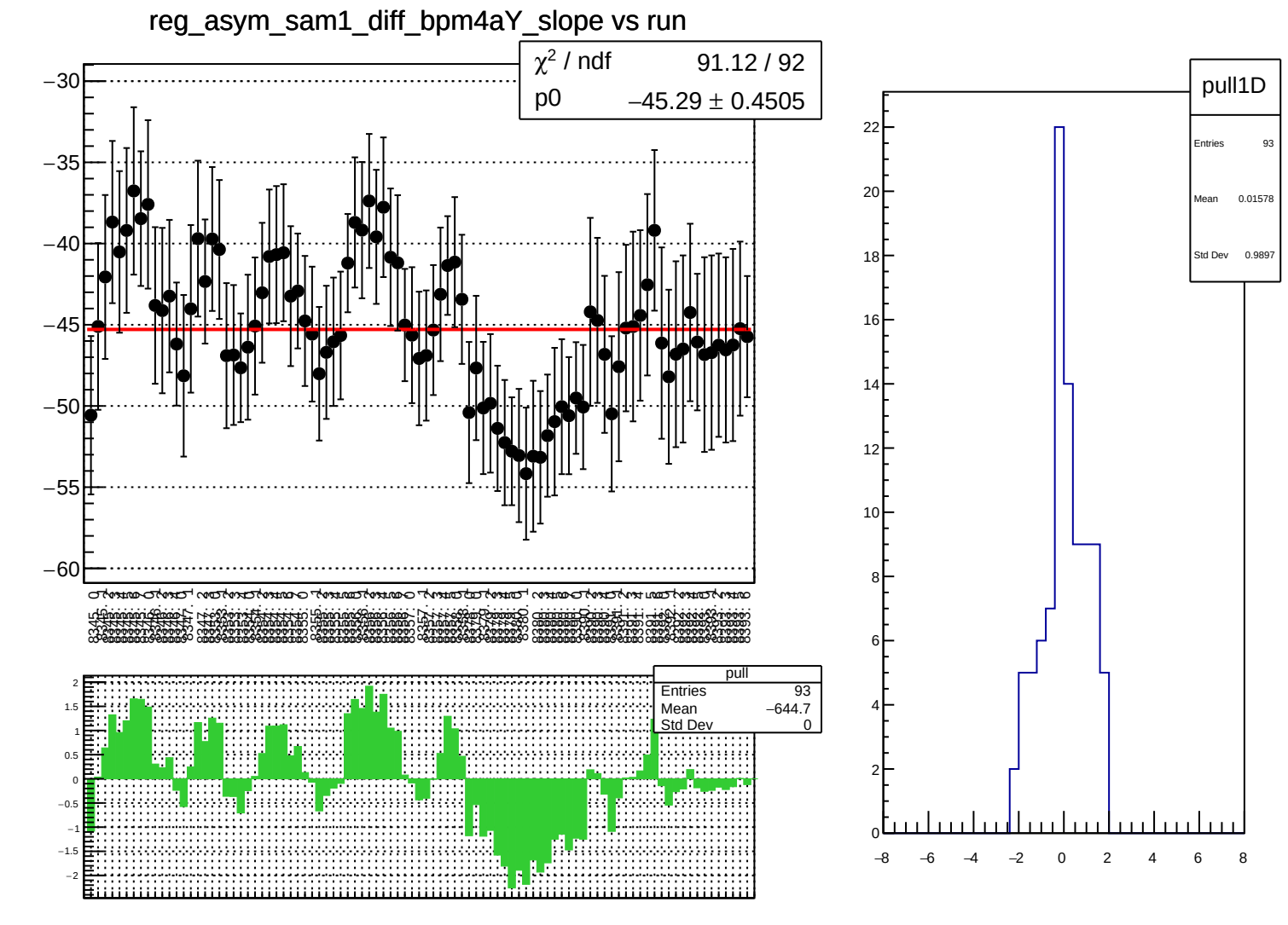

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 128.2 / 92
p0 8.465e−15 ± 5.195e−14
pull
Entries 93
Mean 36.27
Std Dev 33.14

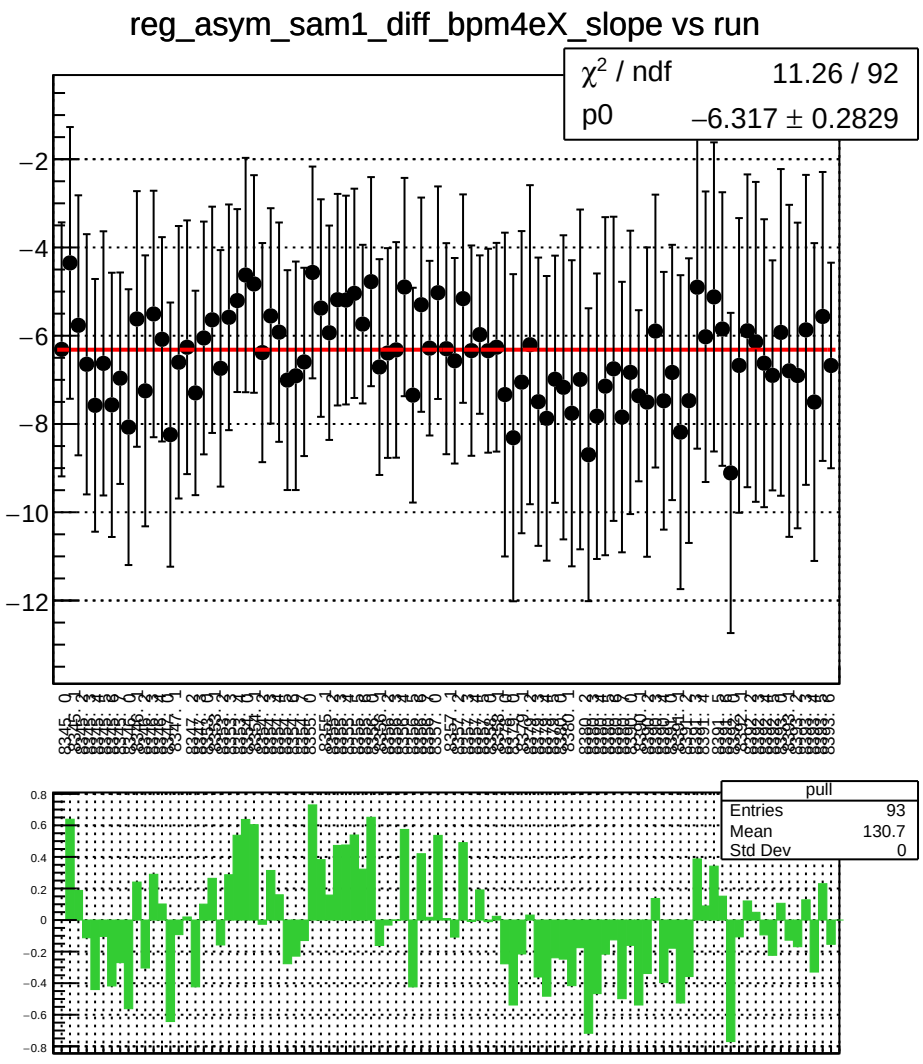

pull1D
Entries 93
Mean −0.07901
Std Dev 1.171

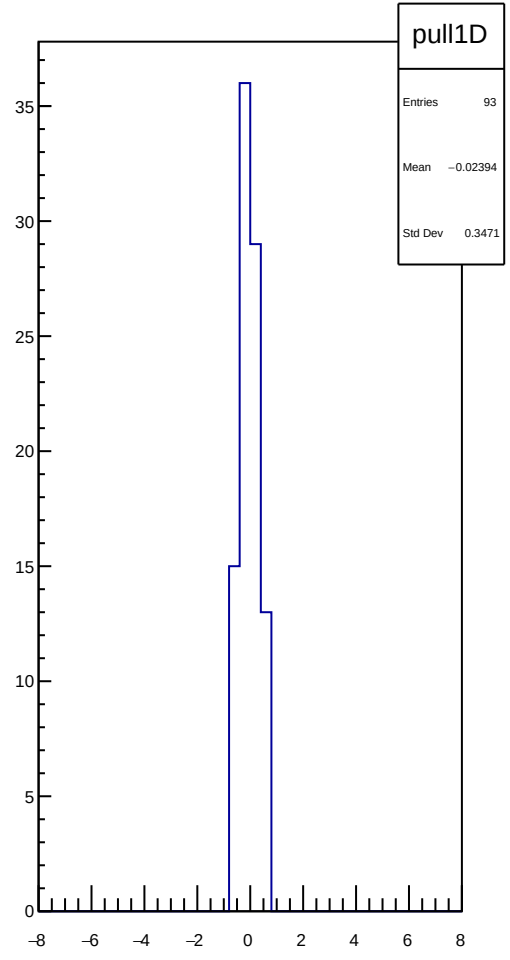

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.242e+06 / 92
p0 2.789e−11 ± 3.673e−14
0.5
0.4
0.3
0.2
0.1

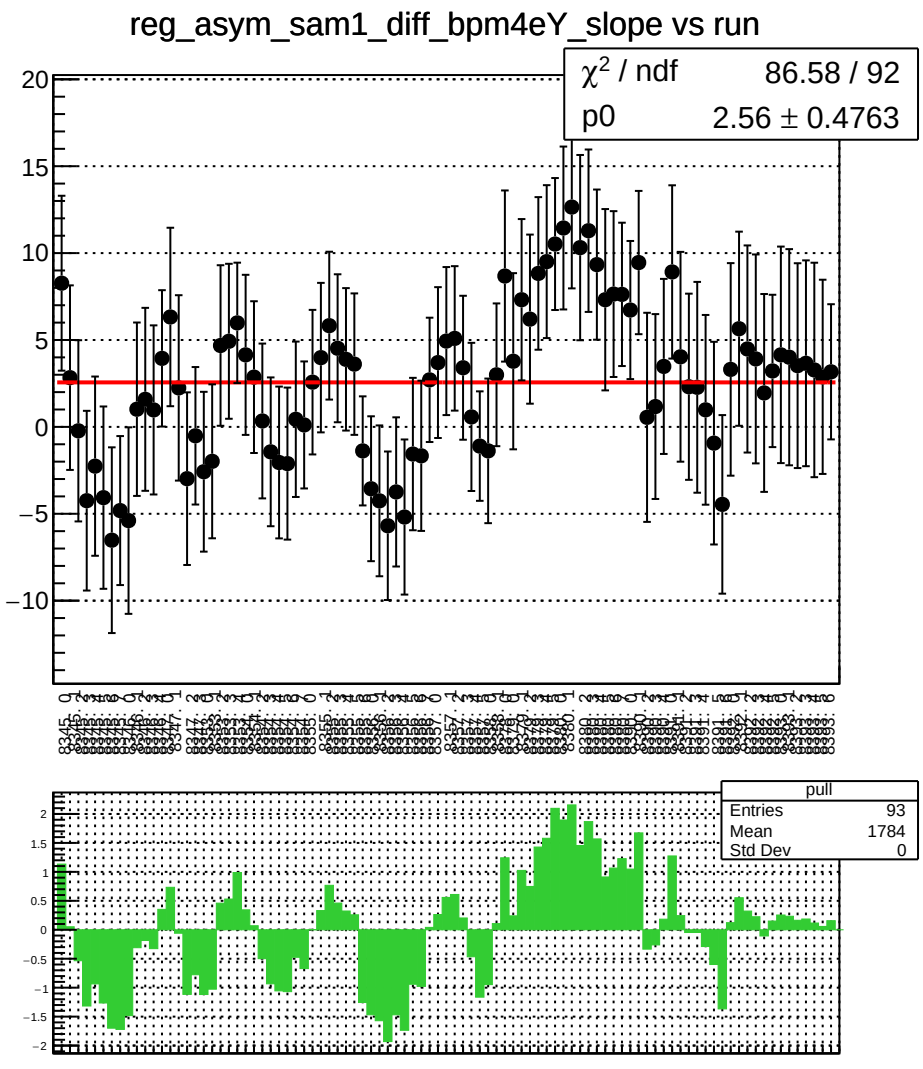

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 10.27 / 92
p0 −3.834 ± 0.2563
pull
Entries 93
Mean 133.1
Std Dev 0

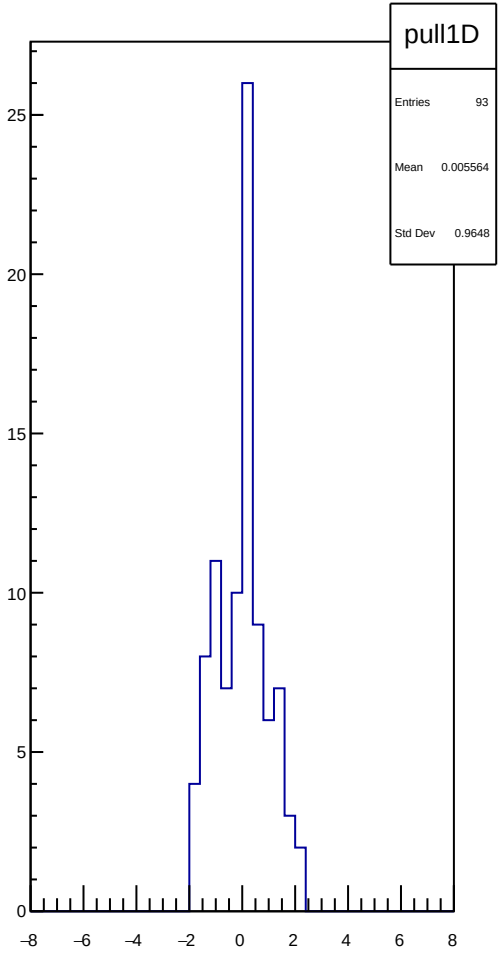

pull1D
Entries 93
Mean 0.02856
Std Dev 0.3311

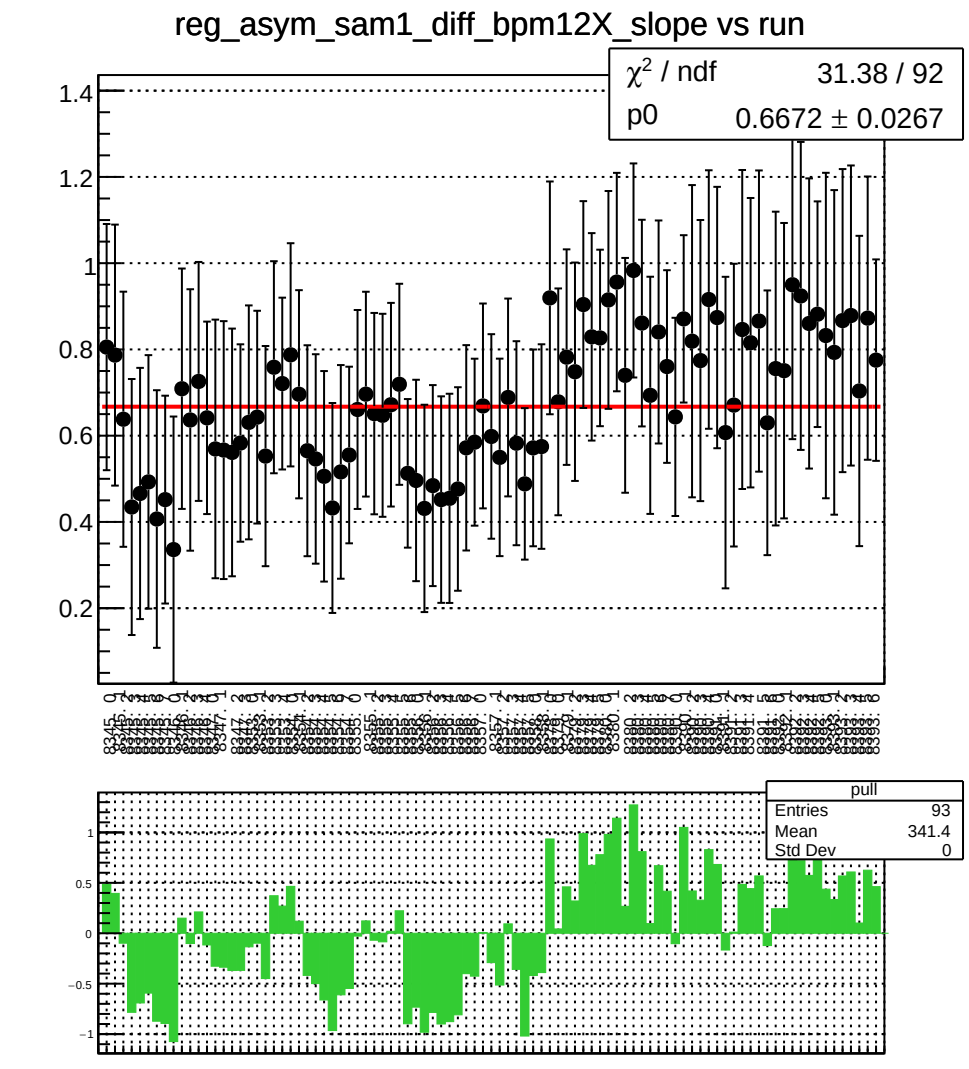

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 91.12 / 92
p0 −45.29 ± 0.4505
pull
Entries 93
Mean −644.7
Std Dev 0
pull1D
Entries 93
Mean 0.01578
Std Dev 0.9897

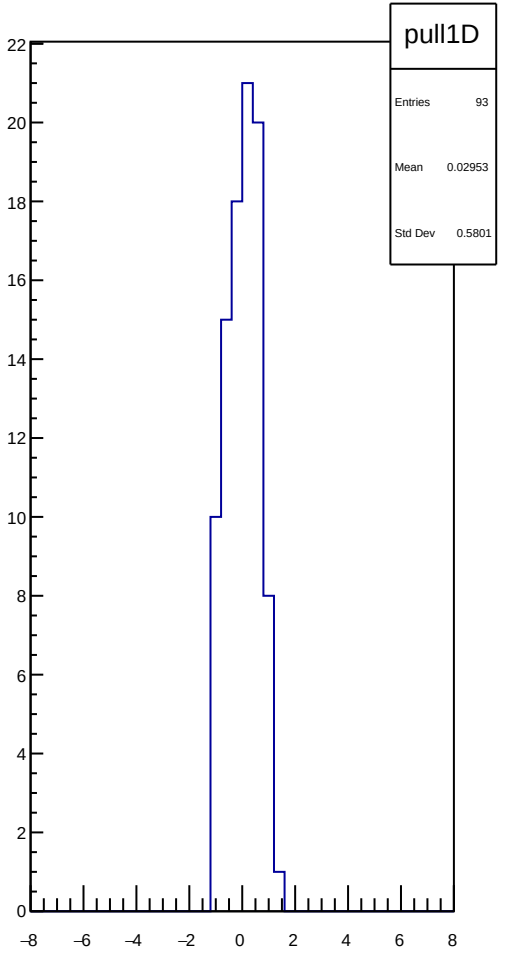

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 11.26 / 92
p0 −6.317 ± 0.2829
pull
Entries 93
Mean 130.7
Std Dev 0

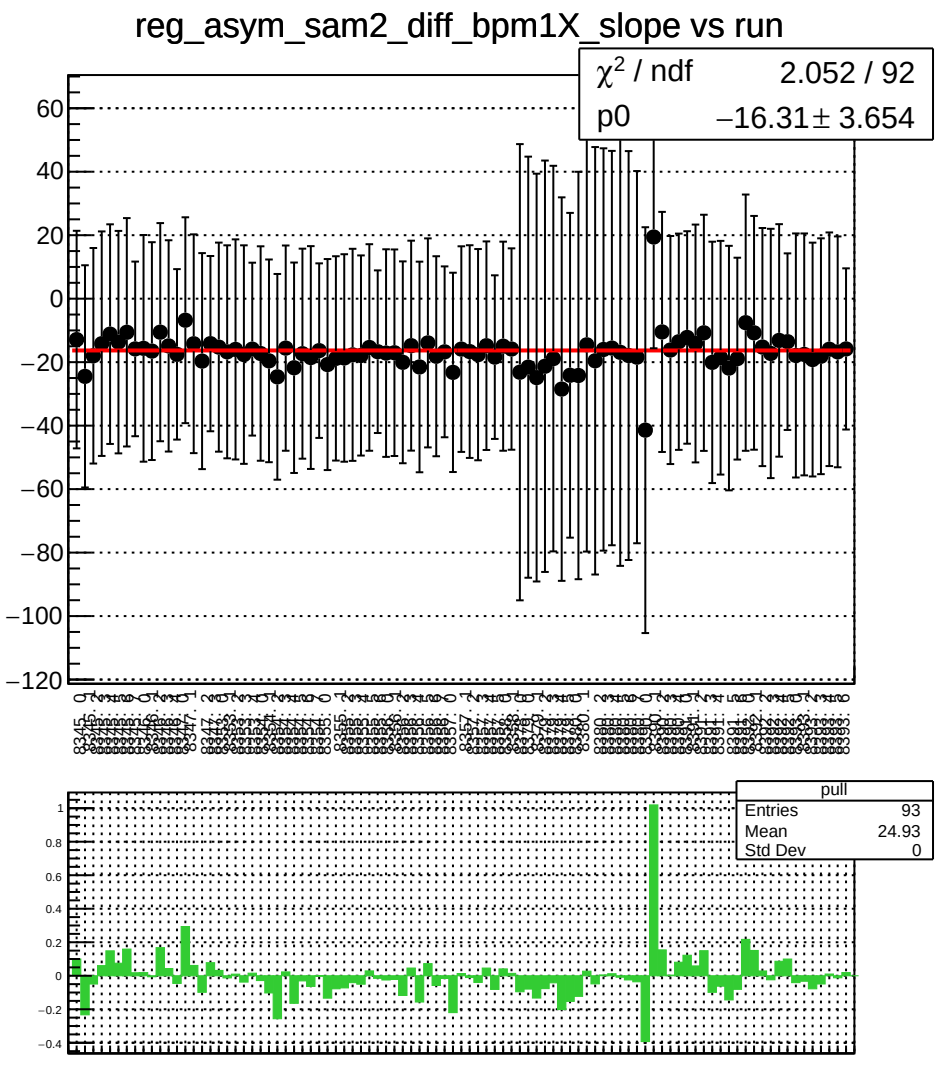

pull1D
Entries 93
Mean −0.02394
Std Dev 0.3471

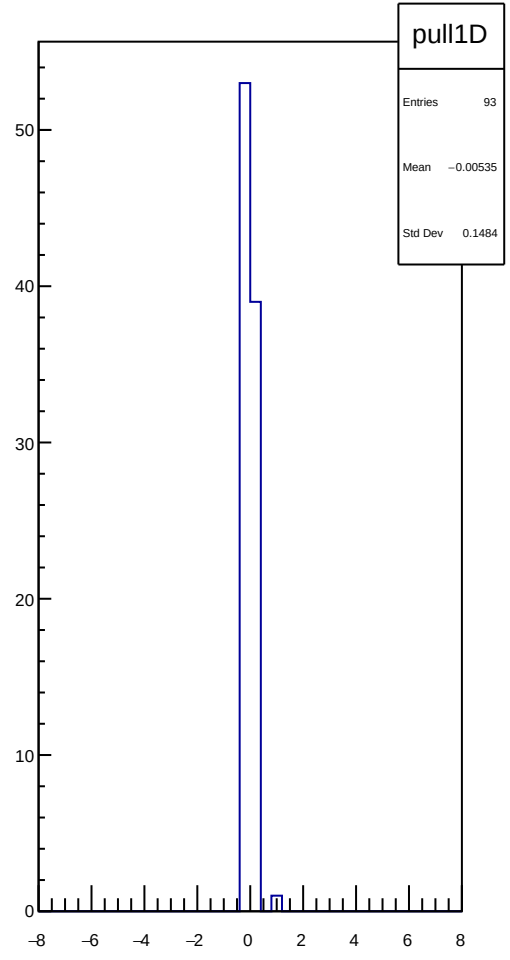

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 86.58 / 92
p0 2.56 ± 0.4763
pull
Entries 93
Mean 1784
Std Dev 0

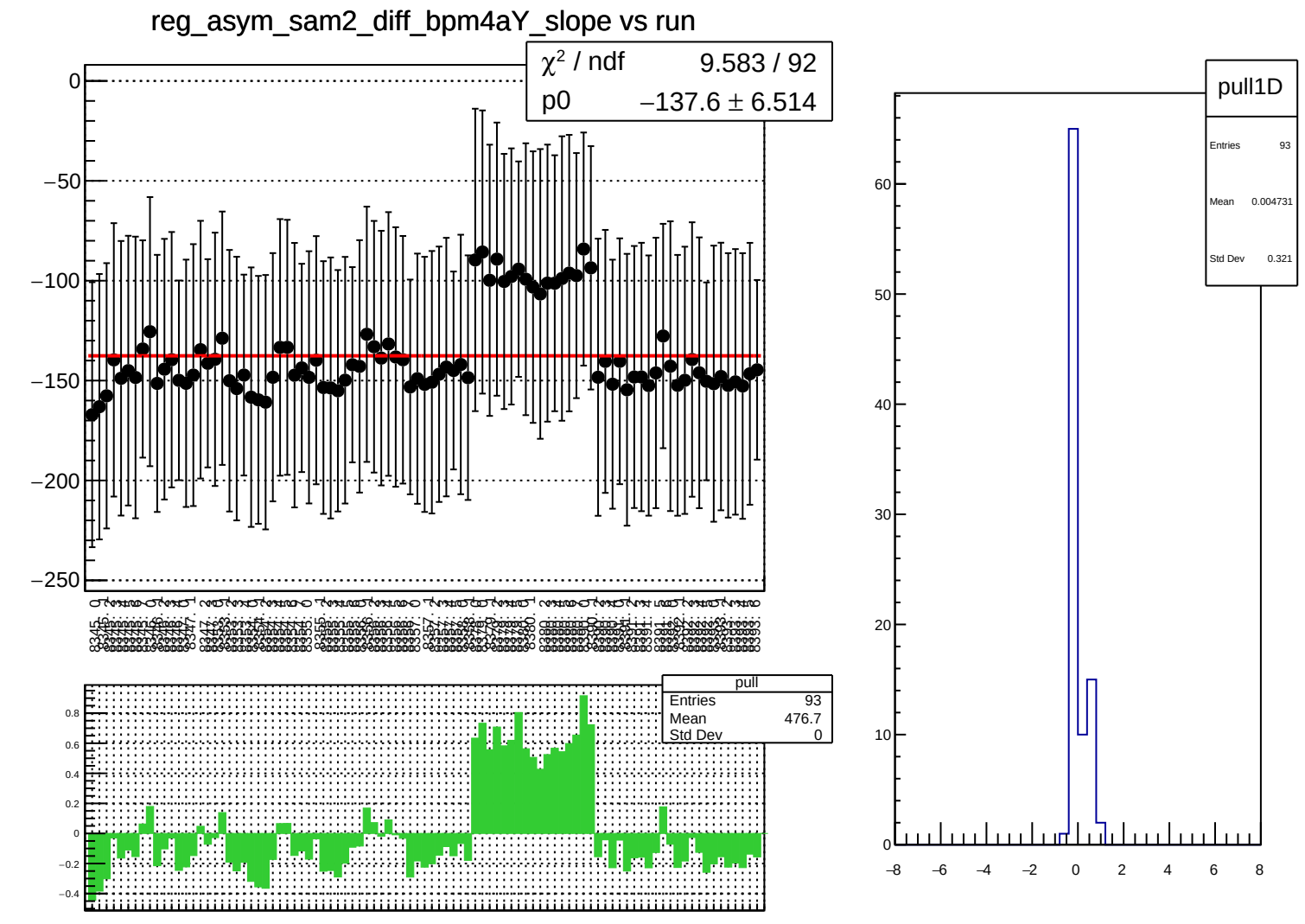

pull1D
Entries 93
Mean 0.005564
Std Dev 0.9648

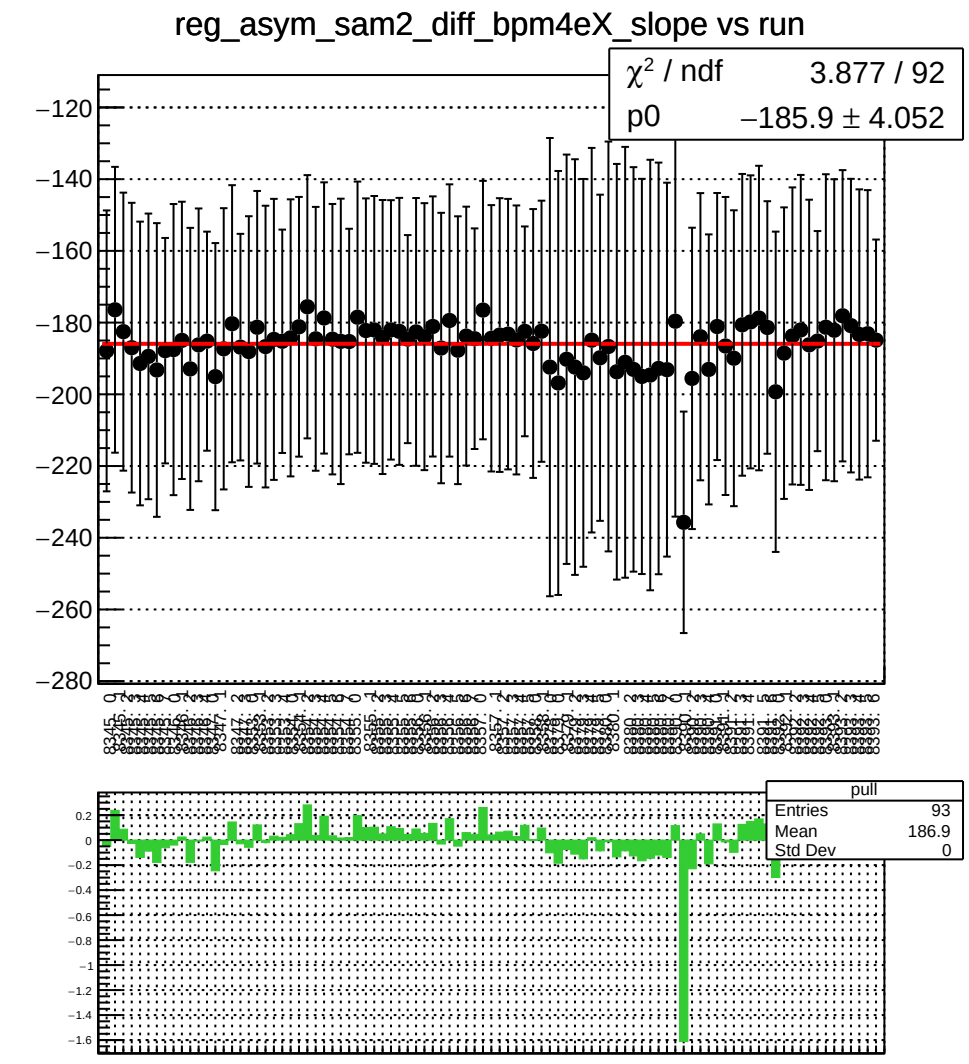

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 31.38 / 92
p0 0.6672 ± 0.0267
pull
Entries 93
Mean 341.4
Std Dev 0

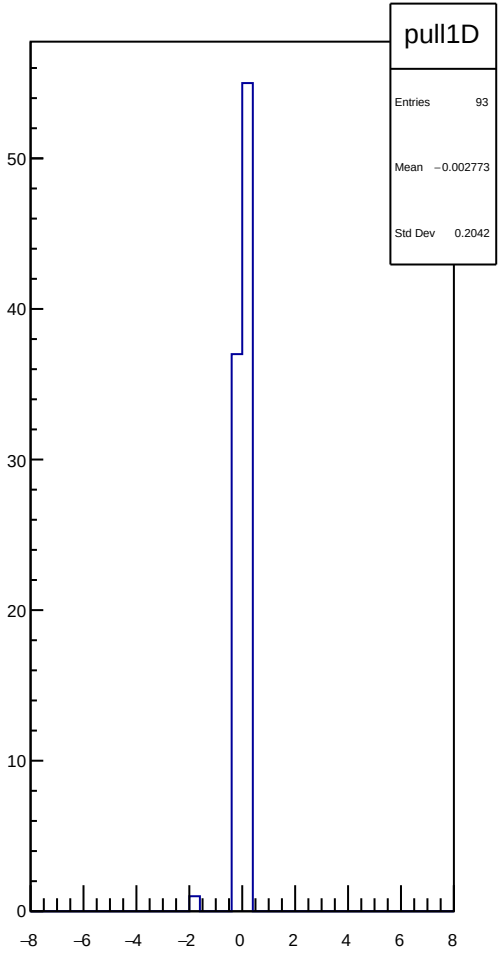

pull1D
Entries 93
Mean 0.02953
Std Dev 0.5801

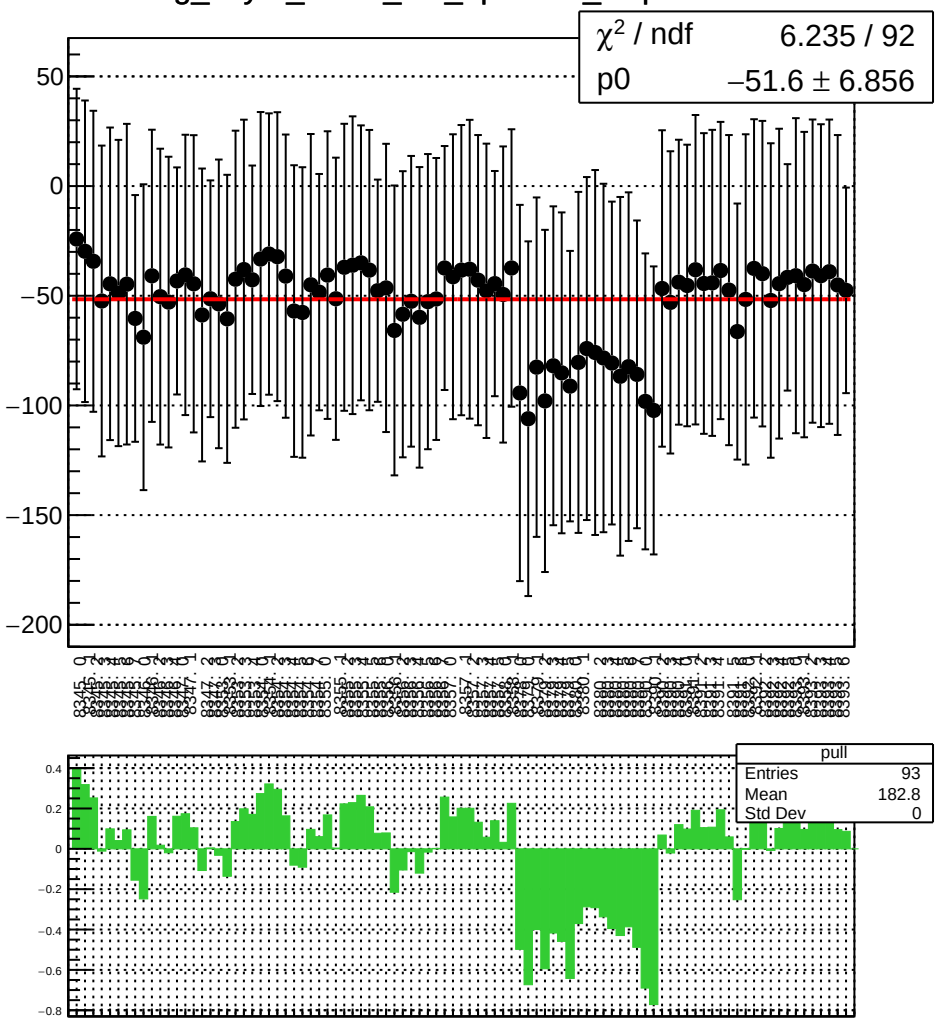

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 2.052 / 92
p0 −16.31 ± 3.654
pull
Entries 93
Mean 24.93
Std Dev 0

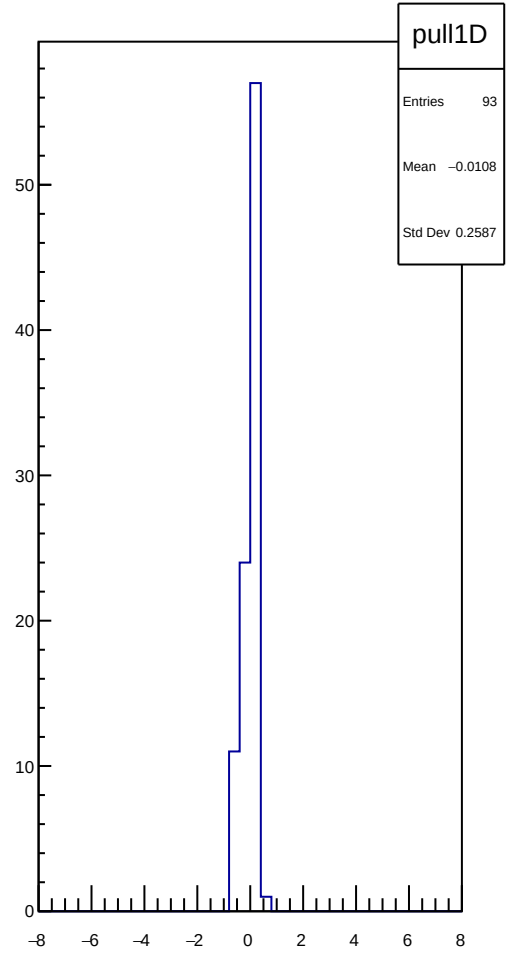

pull1D
Entries 93
Mean −0.00535
Std Dev 0.1484

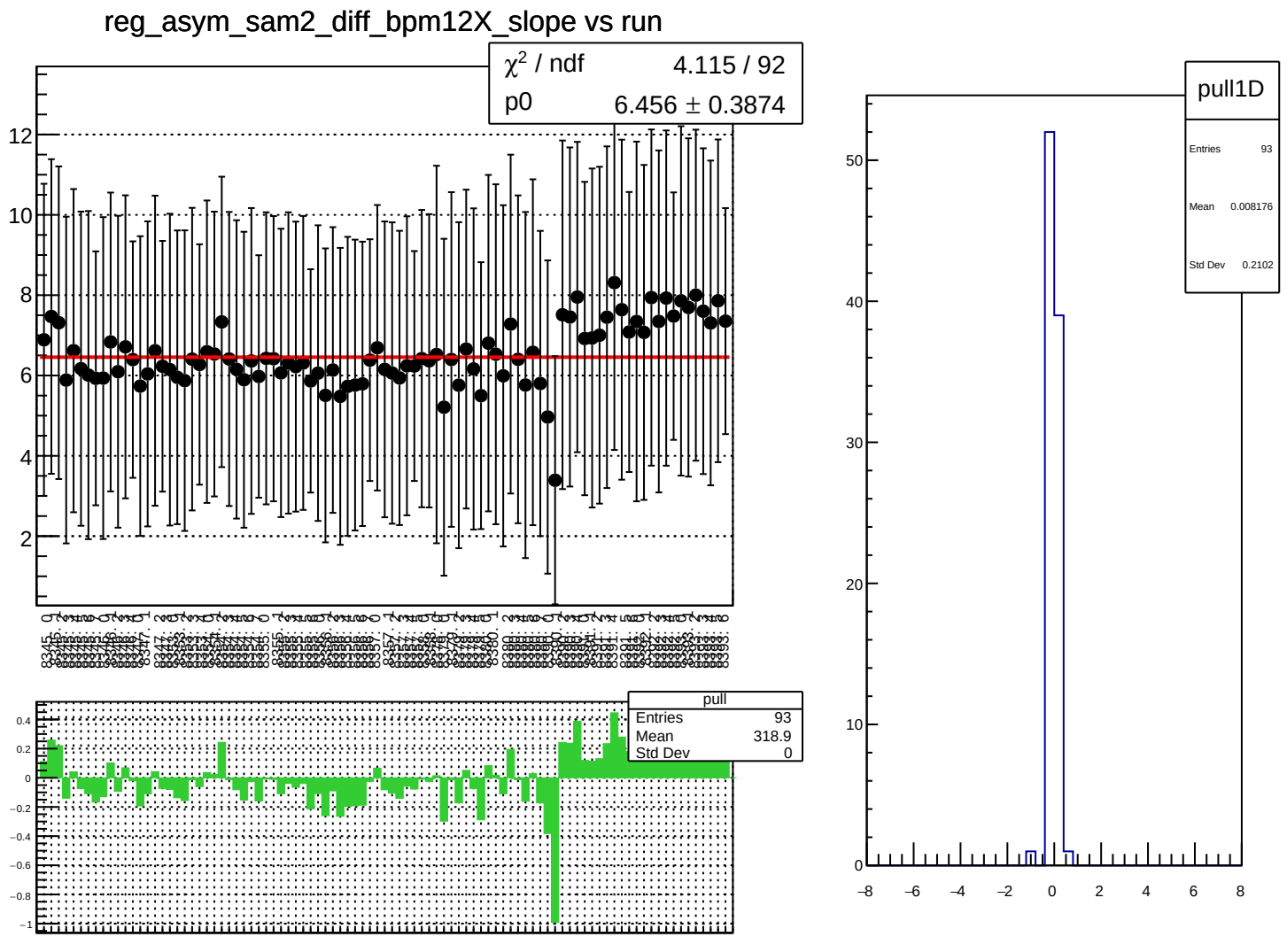

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 9.583 / 92
p0 −137.6 ± 6.514
pull
Entries 93
Mean 476.7
Std Dev 0
pull1D
Entries 93
Mean 0.004731
Std Dev 0.321

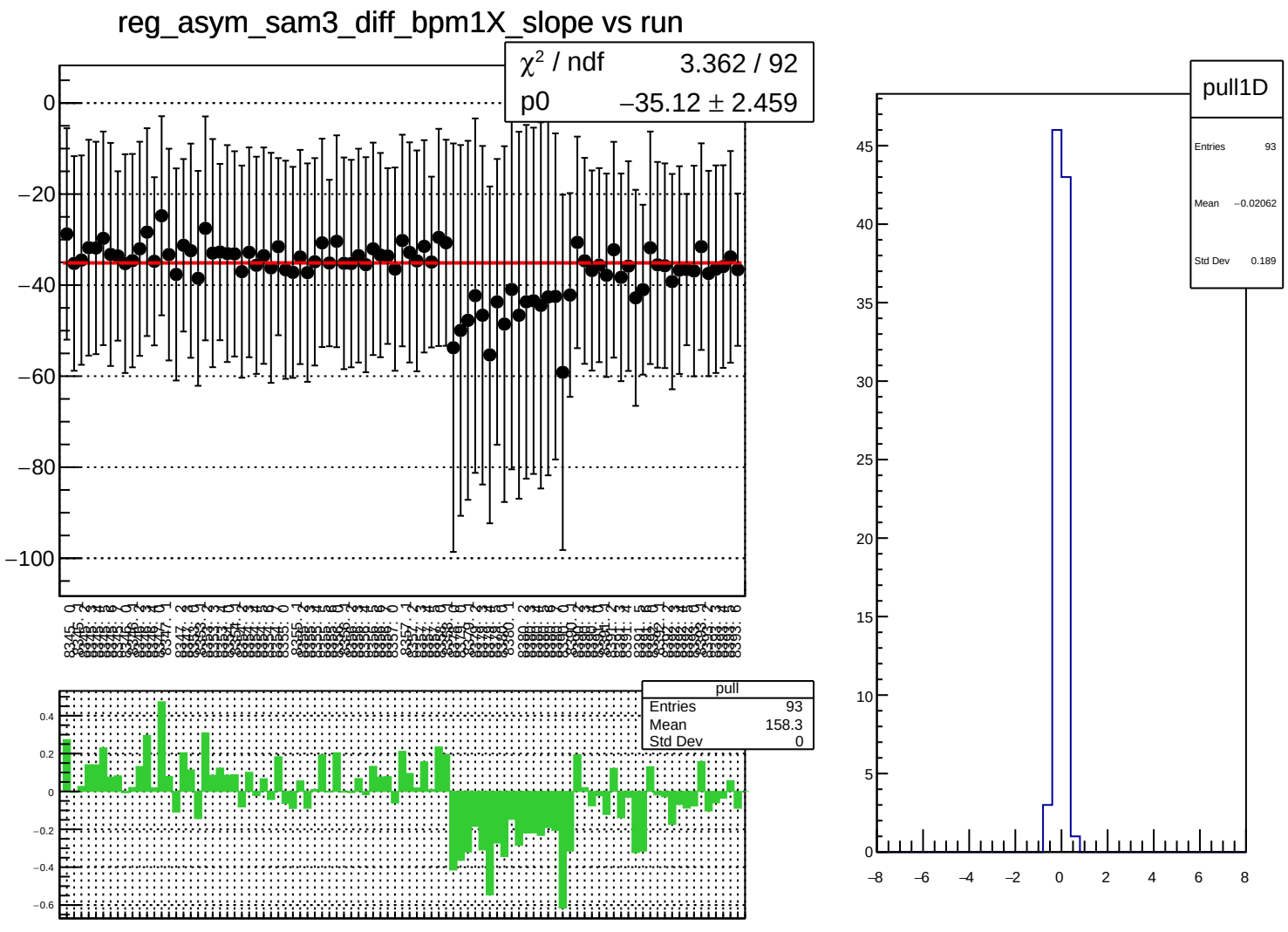

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 3.877 / 92
p0 −185.9 ± 4.052
pull
Entries 93
Mean 186.9
Std Dev 0

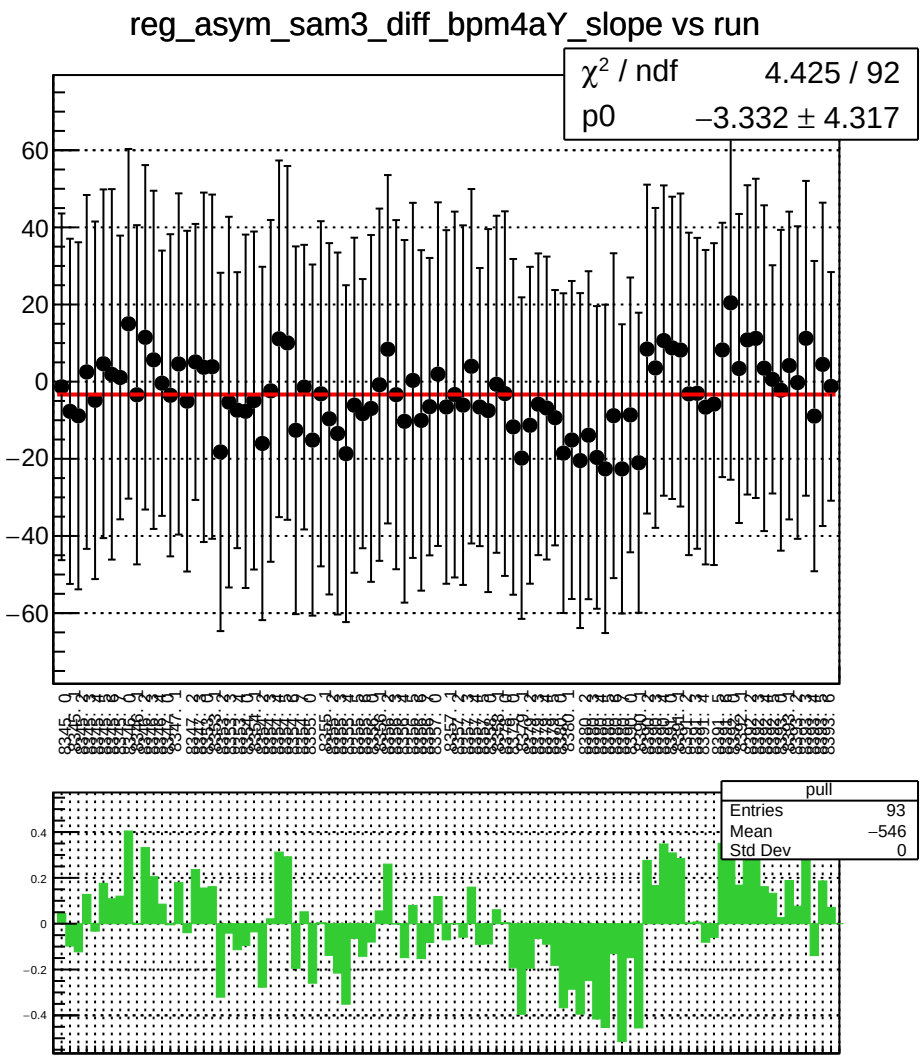

pull1D
Entries 93
Mean −0.002773
Std Dev 0.2042

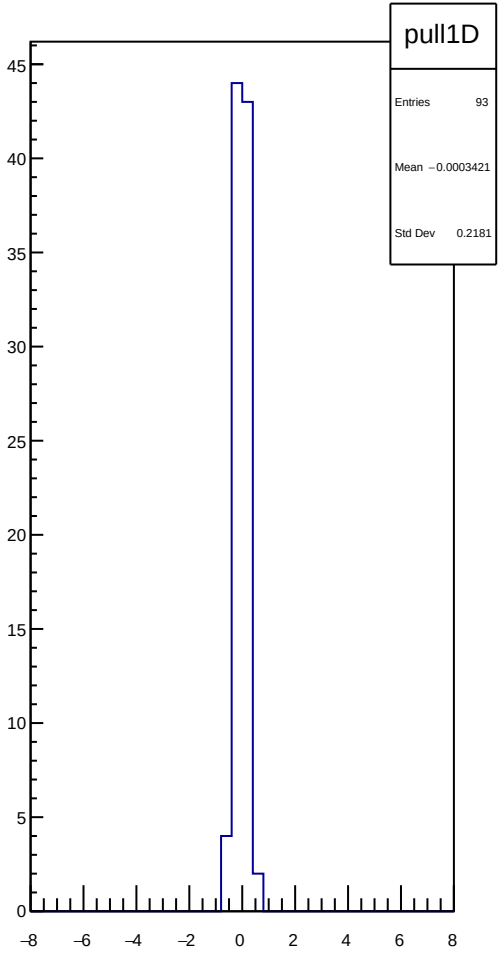

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 6.235 / 92
p0 −51.6 ± 6.856
50
0
−50
−100
−150
−200
pull
Entries 93
Mean 182.8
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

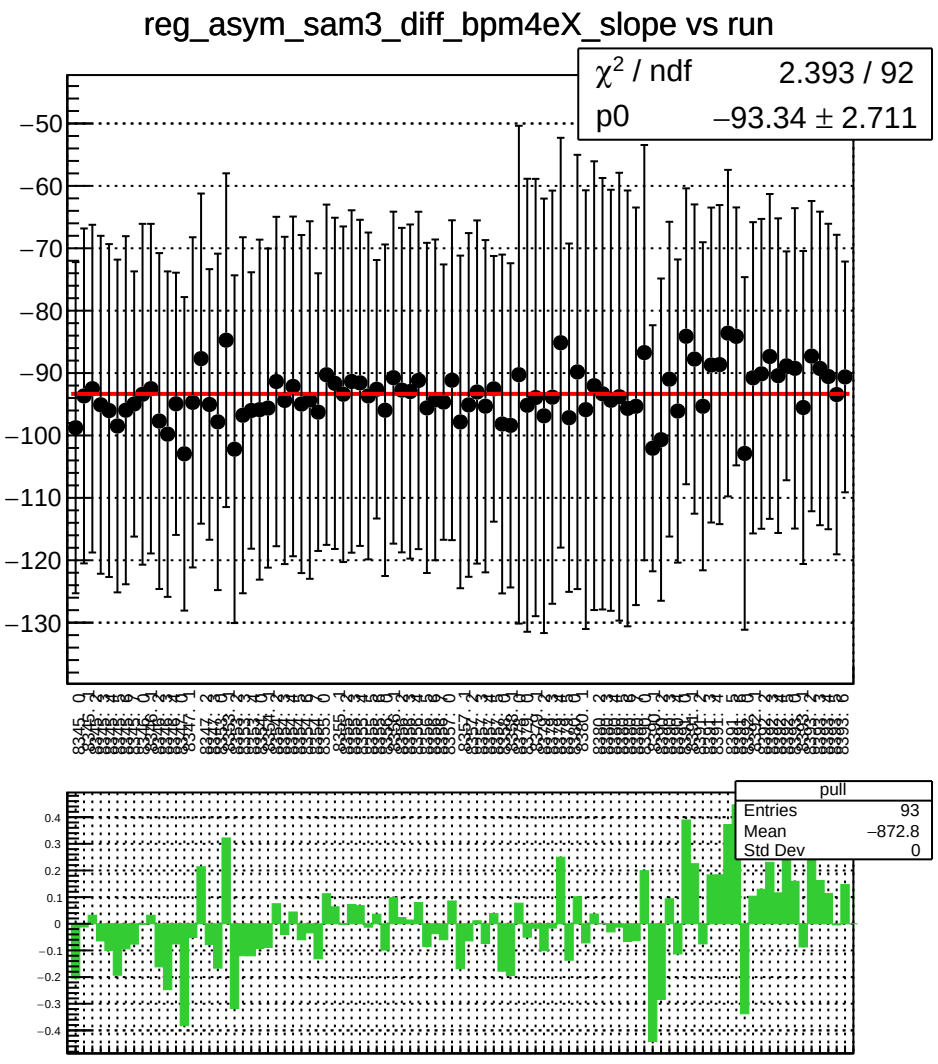

pull1D
Entries 93
Mean −0.0108
Std Dev 0.2587
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

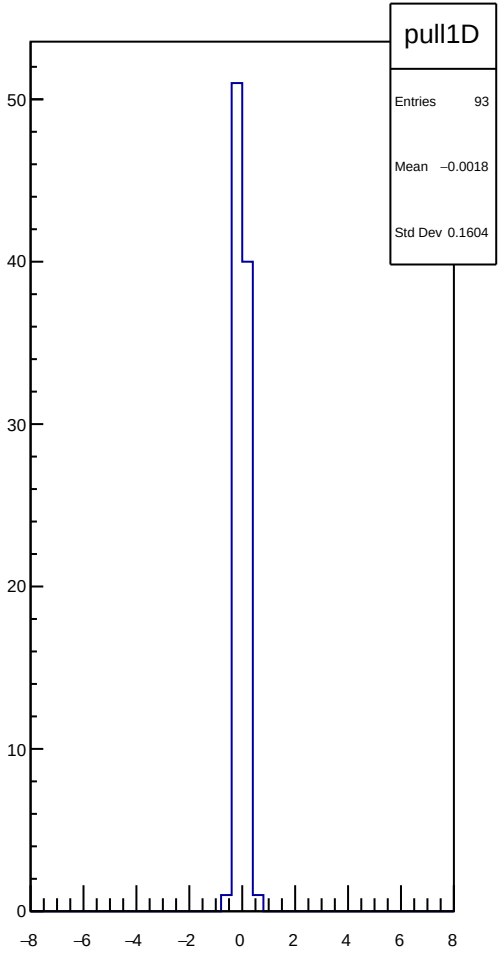

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 4.115 / 92
p0 6.456 ± 0.3874
pull
Entries 93
Mean 318.9
Std Dev 0
pull1D
Entries 93
Mean 0.008176
Std Dev 0.2102

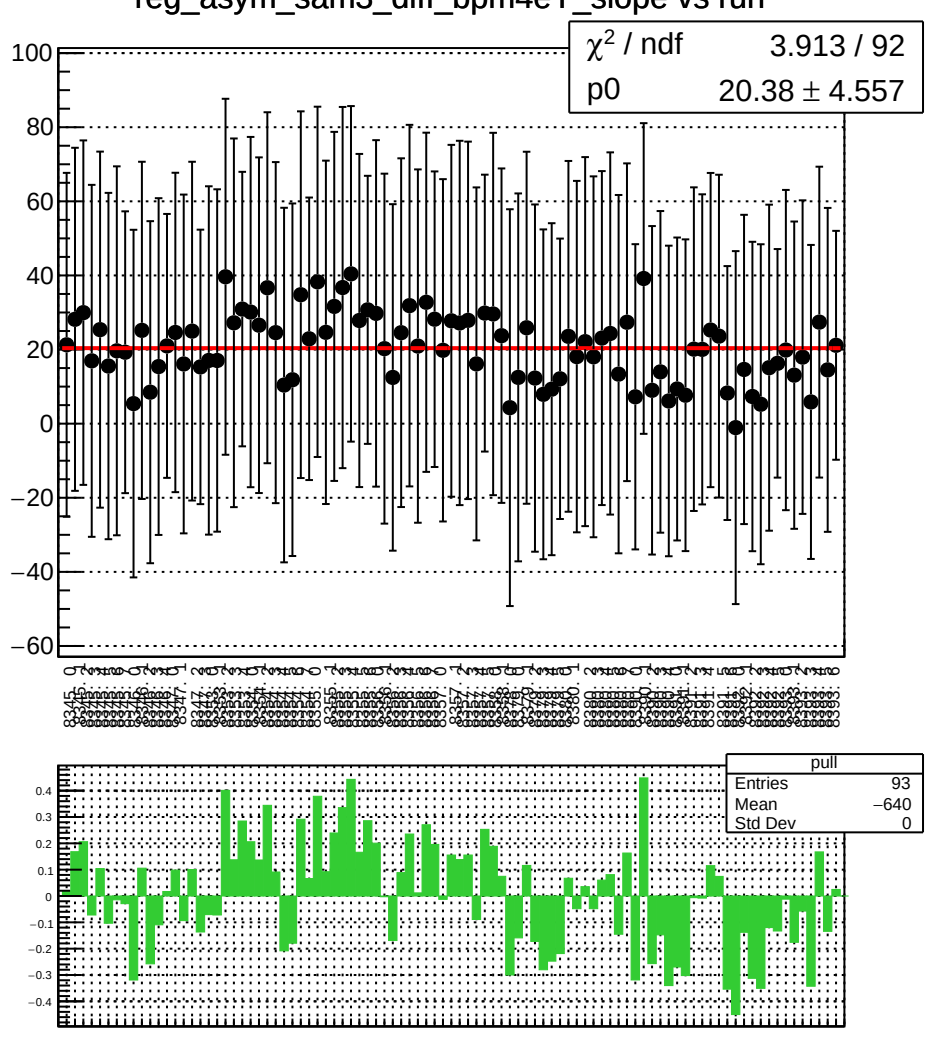

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 3.362 / 92
p0 −35.12 ± 2.459
pull
Entries 93
Mean 158.3
Std Dev 0
pull1D
Entries 93
Mean −0.02062
Std Dev 0.189

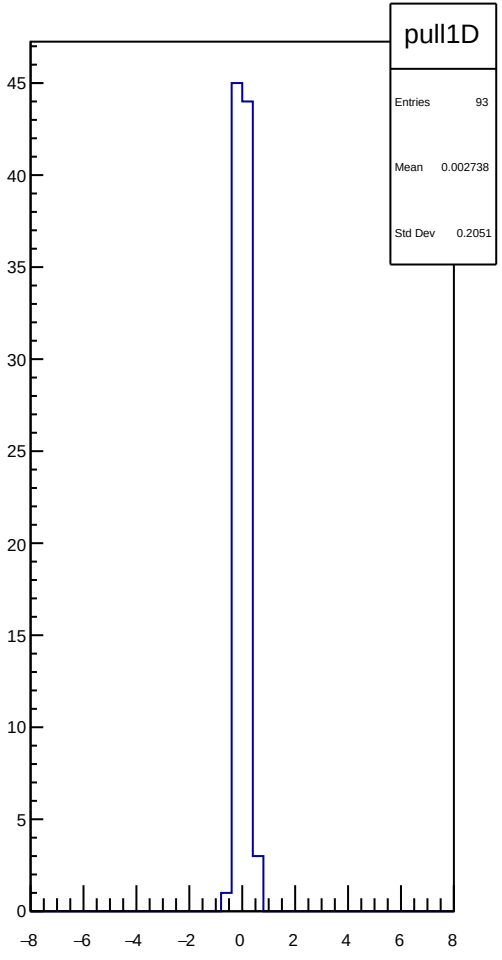

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 4.425 / 92
p0 −3.332 ± 4.317
pull
Entries 93
Mean −546
Std Dev 0

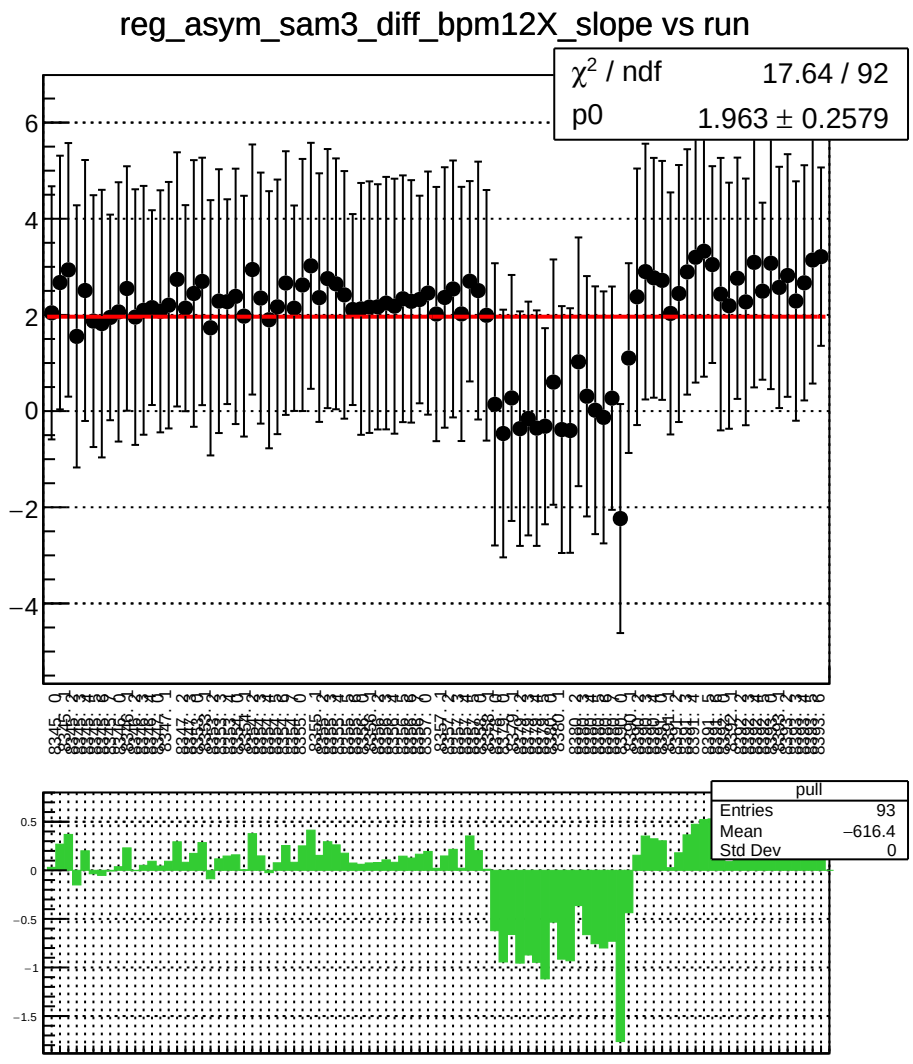

pull1D
Entries 93
Mean −0.0003421
Std Dev 0.2181

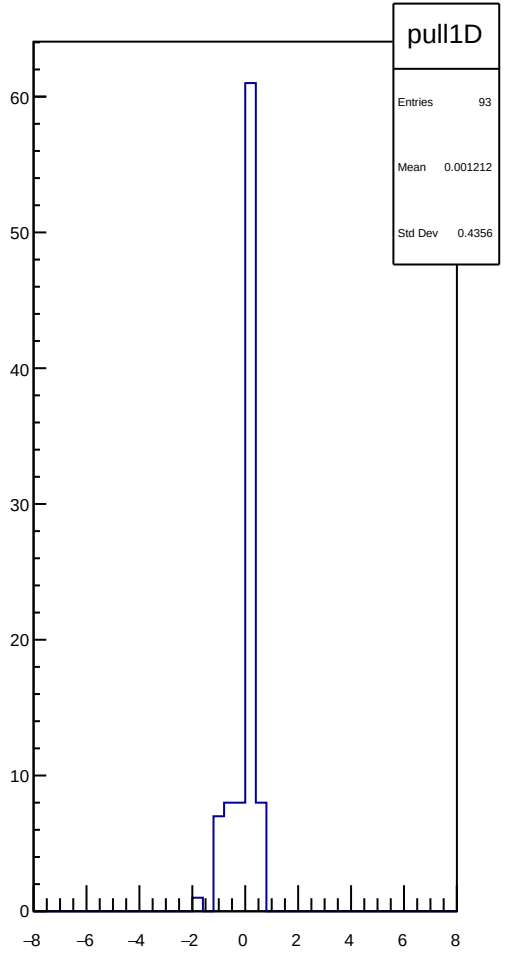

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 2.393 / 92
p0 −93.34 ± 2.711
pull
Entries 93
Mean −872.8
Std Dev 0

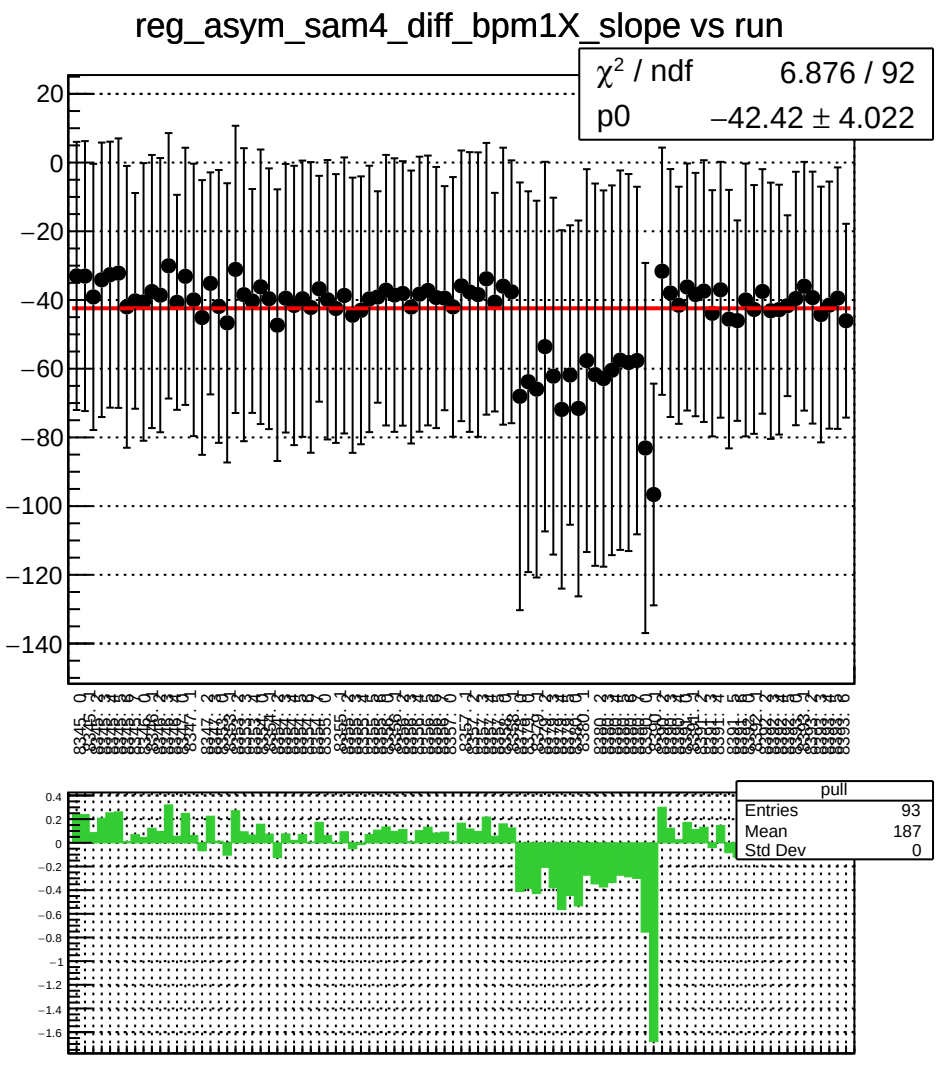

pull1D
Entries 93
Mean −0.0018
Std Dev 0.1604

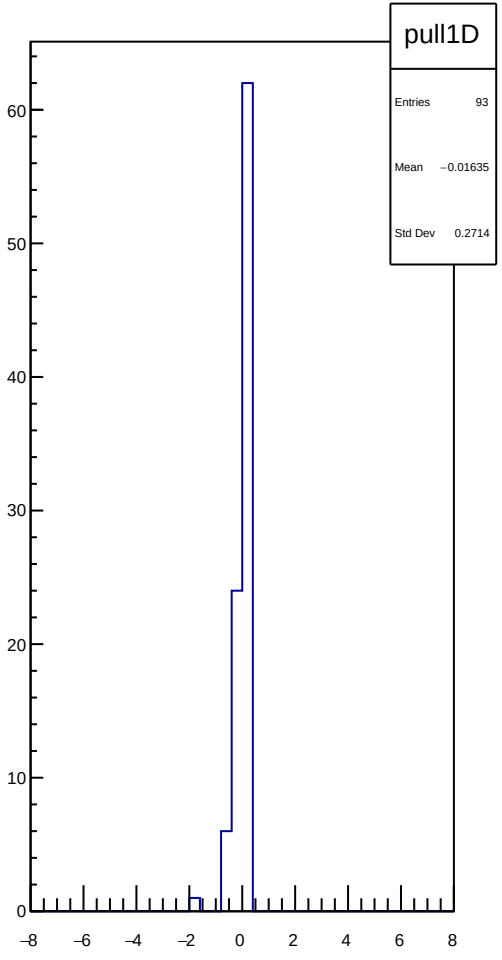

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 3.913 / 92
p0 20.38 ± 4.557
pull
Entries 93
Mean −640
Std Dev 0

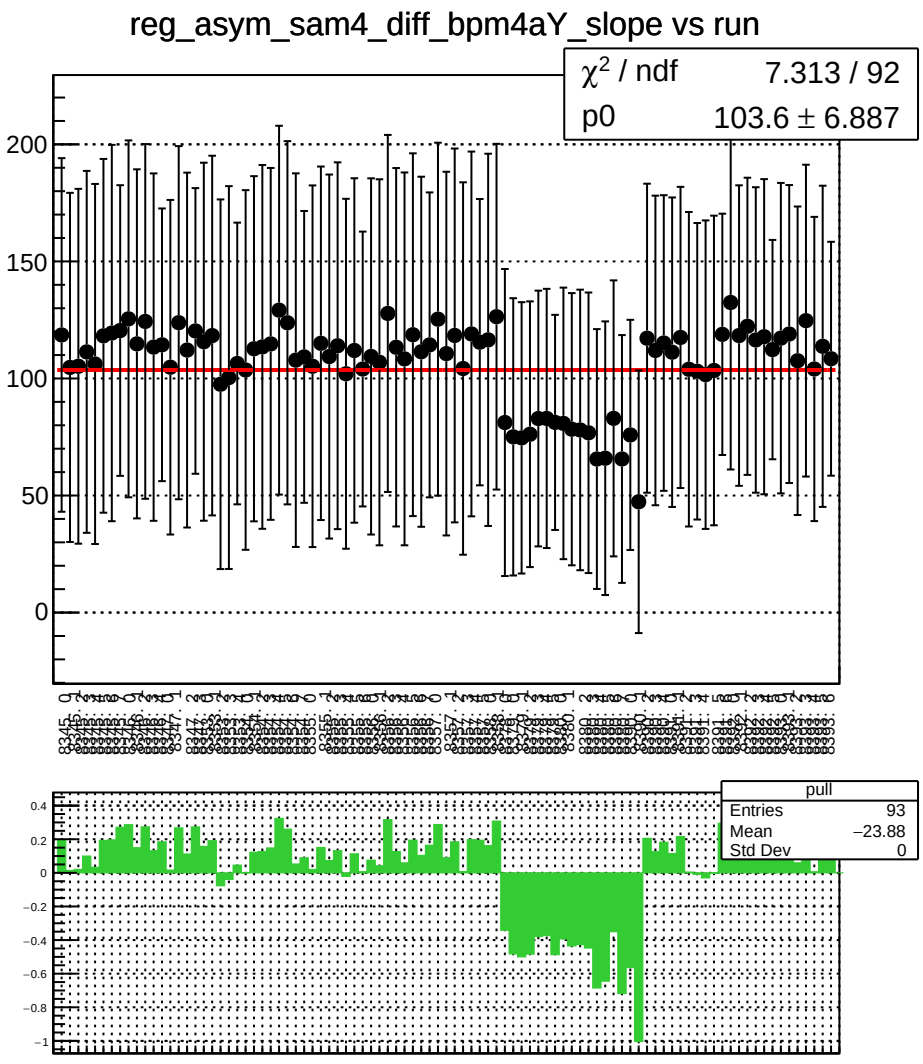

pull1D
Entries 93
Mean 0.002738
Std Dev 0.2051

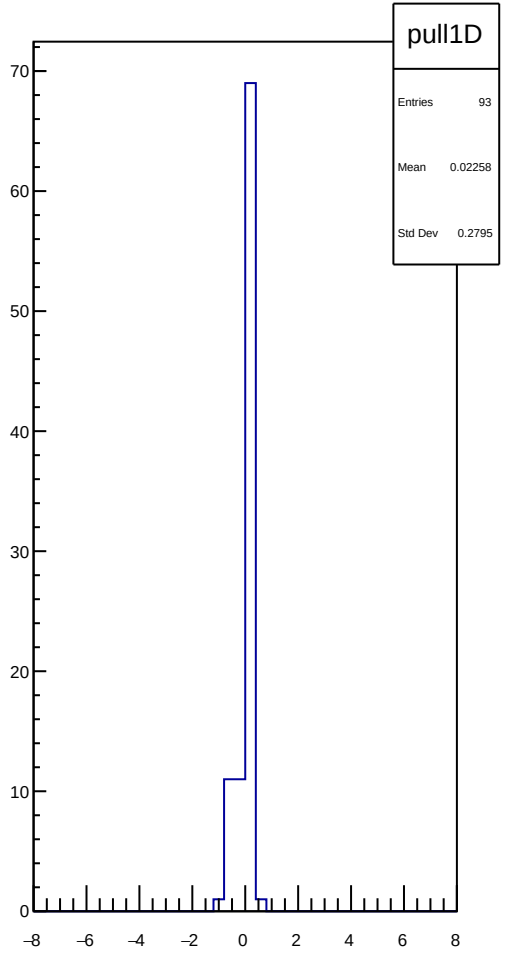

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 17.64 / 92
p0 1.963 ± 0.2579
pull
Entries 93
Mean −616.4
Std Dev 0

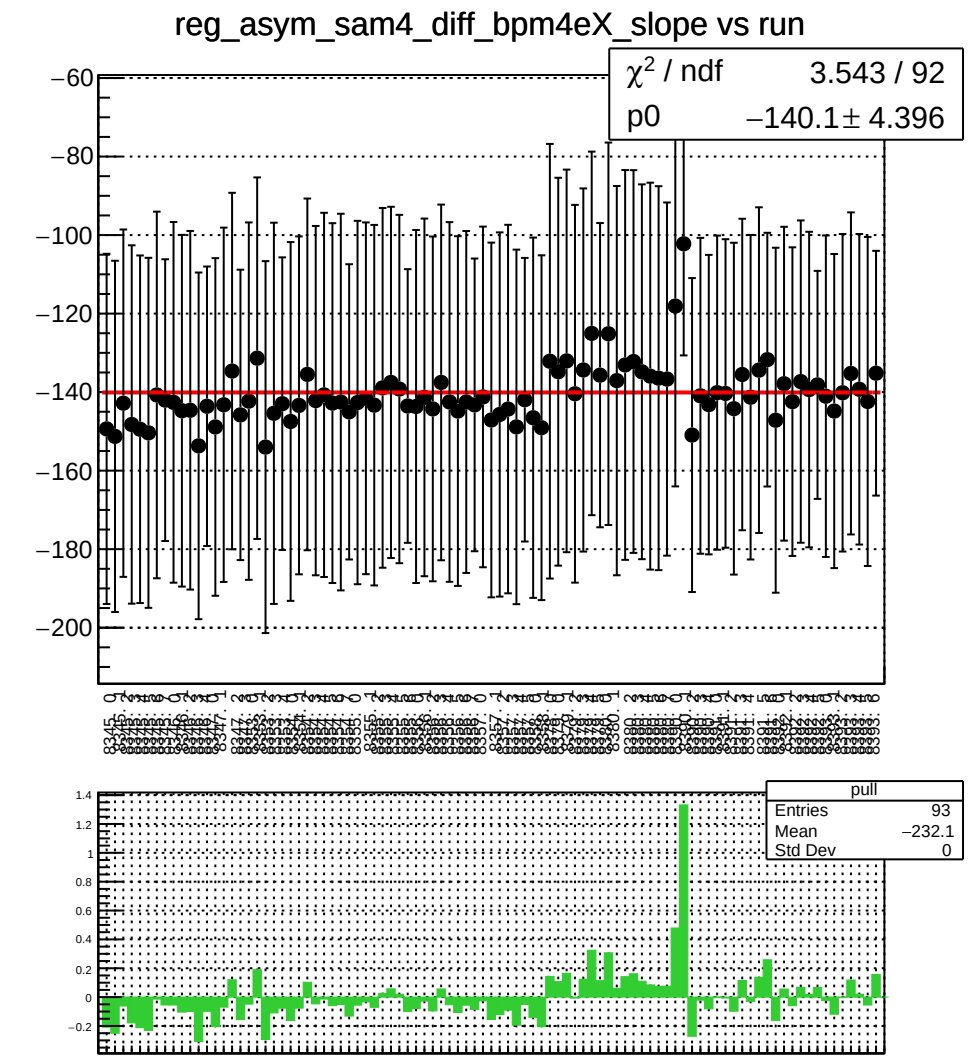

pull1D
Entries 93
Mean 0.001212
Std Dev 0.4356

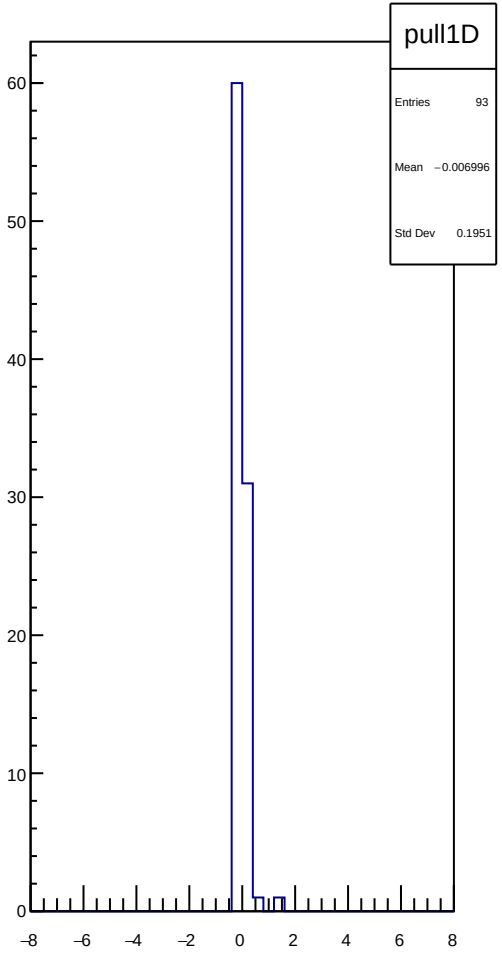

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 6.876 / 92
p0 −42.42 ± 4.022
pull
Entries 93
Mean 187
Std Dev 0

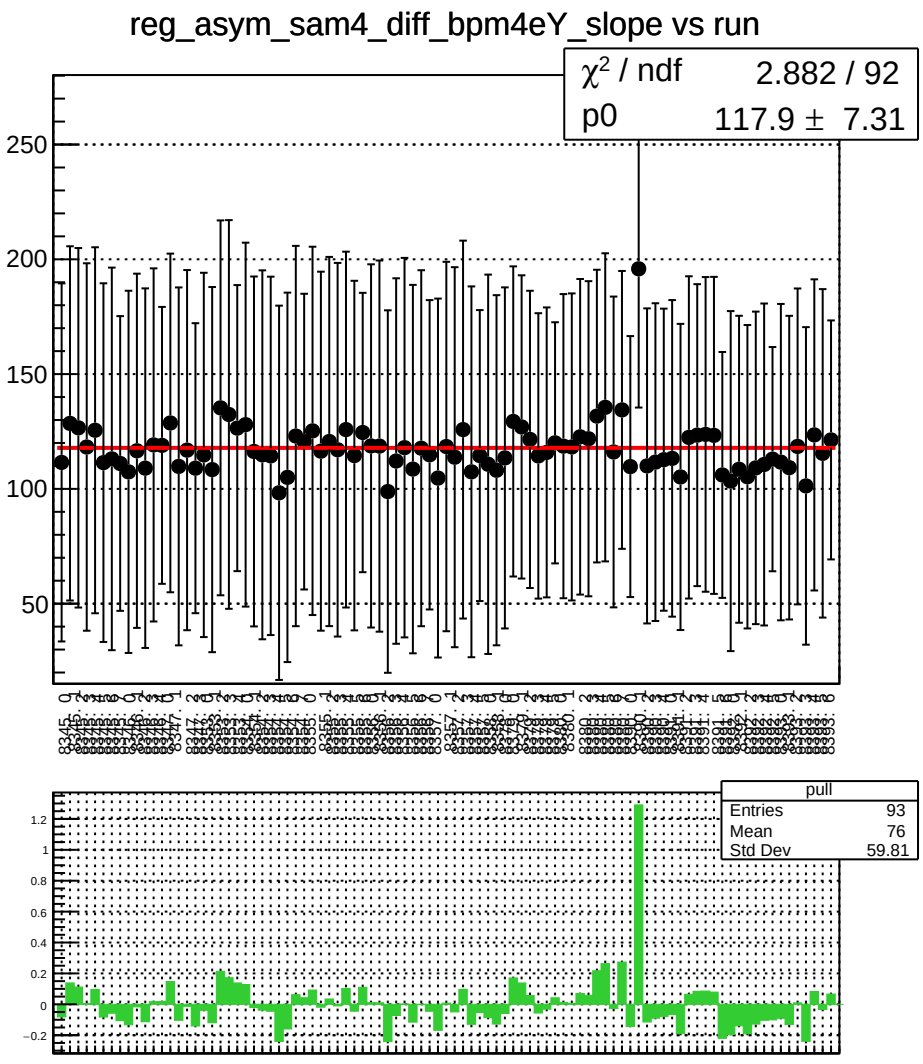

pull1D
Entries 93
Mean −0.01635
Std Dev 0.2714

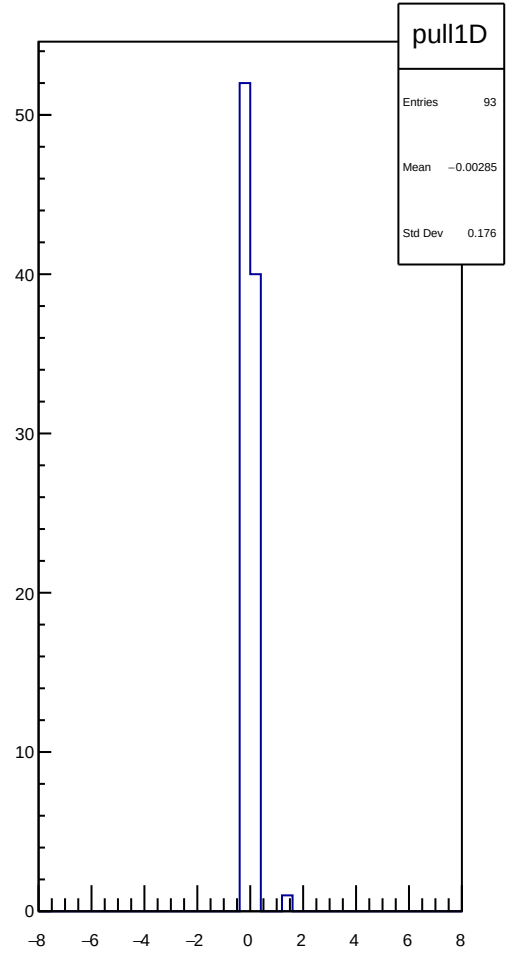

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 7.313 / 92
p0 103.6 ± 6.887
200
150
100
50
0
pull
Entries 93
Mean −23.88
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

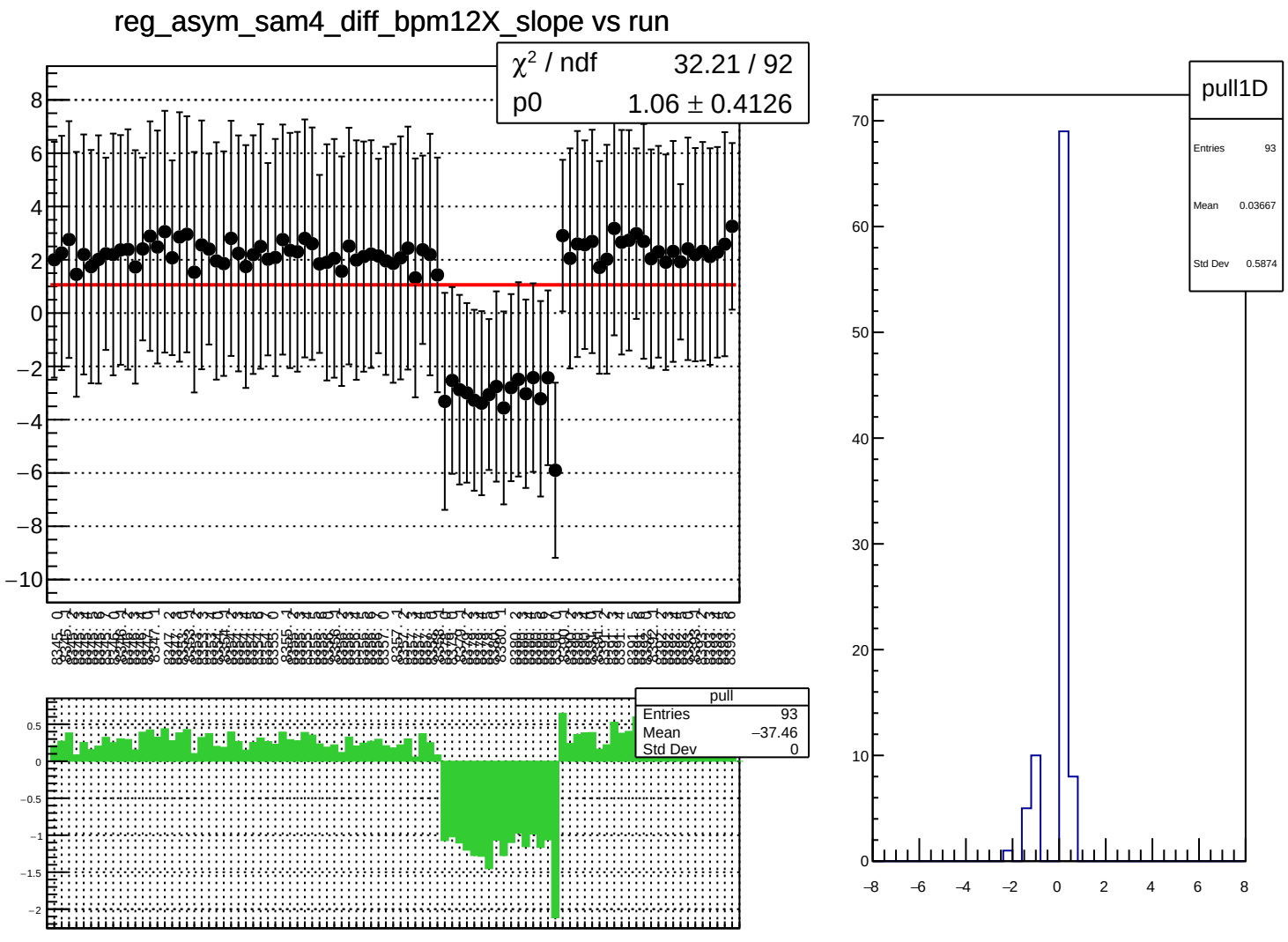

pull1D
Entries 93
Mean 0.02258
Std Dev 0.2795
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

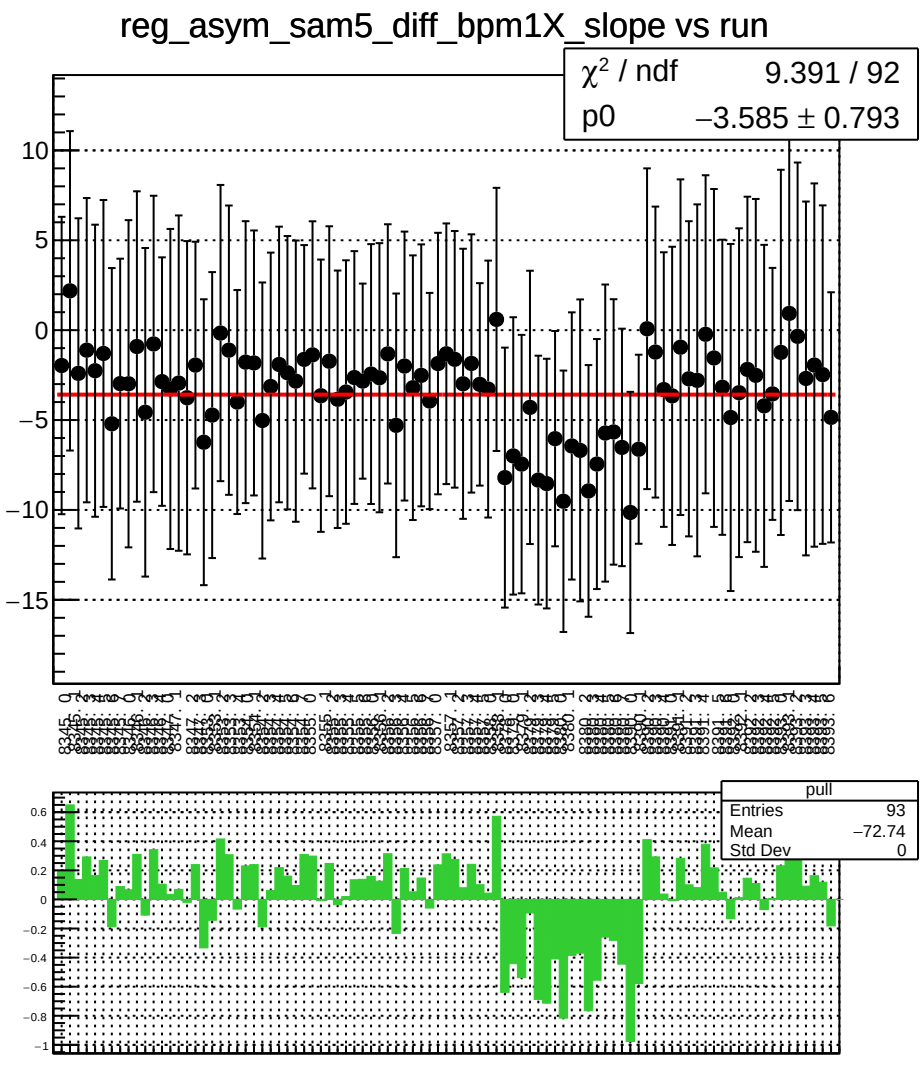

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 3.543 / 92
p0 −140.1 ± 4.396
pull
Entries 93
Mean −232.1
Std Dev 0

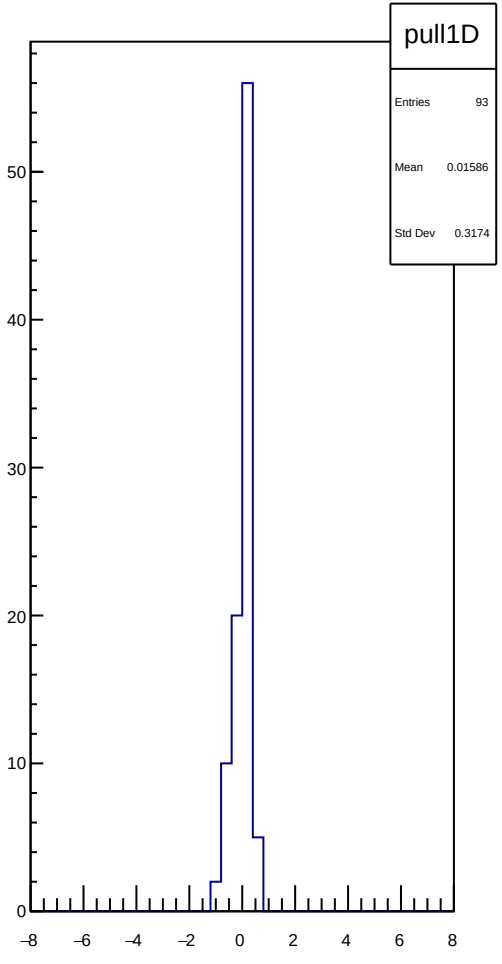

pull1D
Entries 93
Mean −0.006996
Std Dev 0.1951

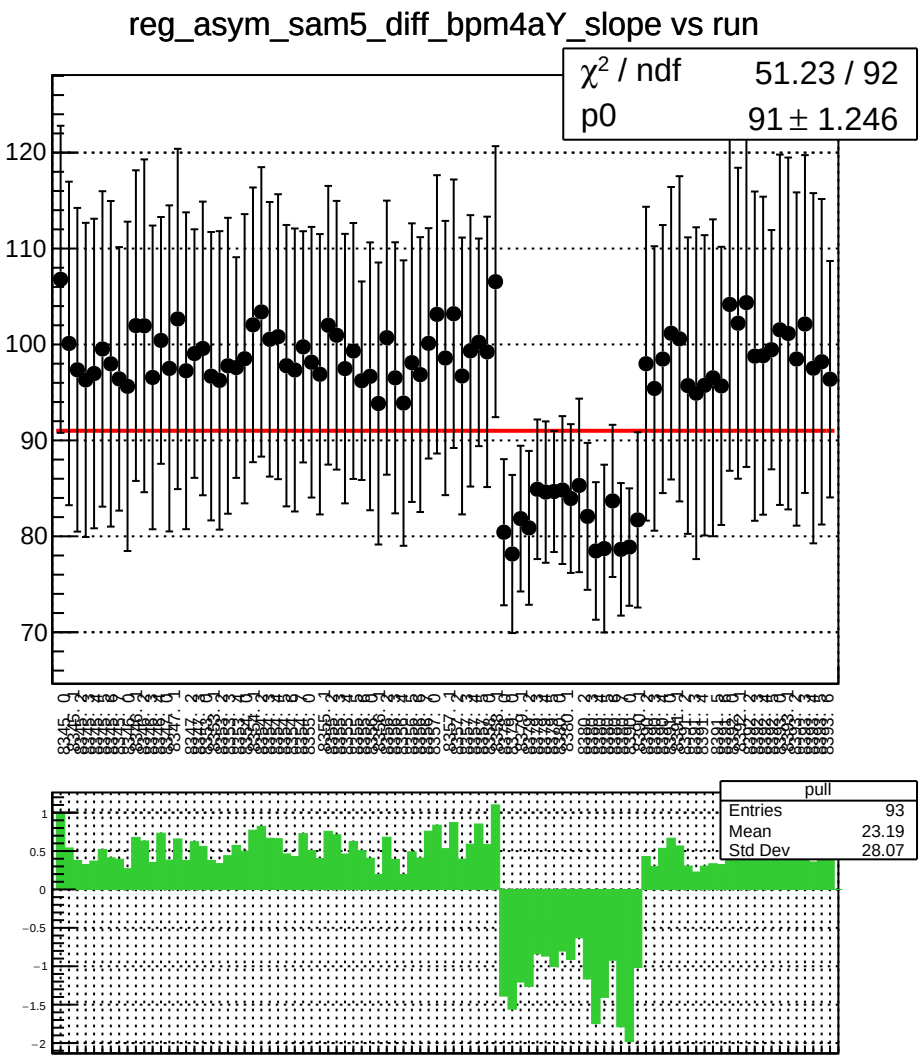

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 2.882 / 92
p0 117.9 ± 7.31
250
200
150
100
50
pull
Entries 93
Mean 76
Std Dev 59.81
1.2
1
0.8
0.6
0.4
0.2
0
−0.2

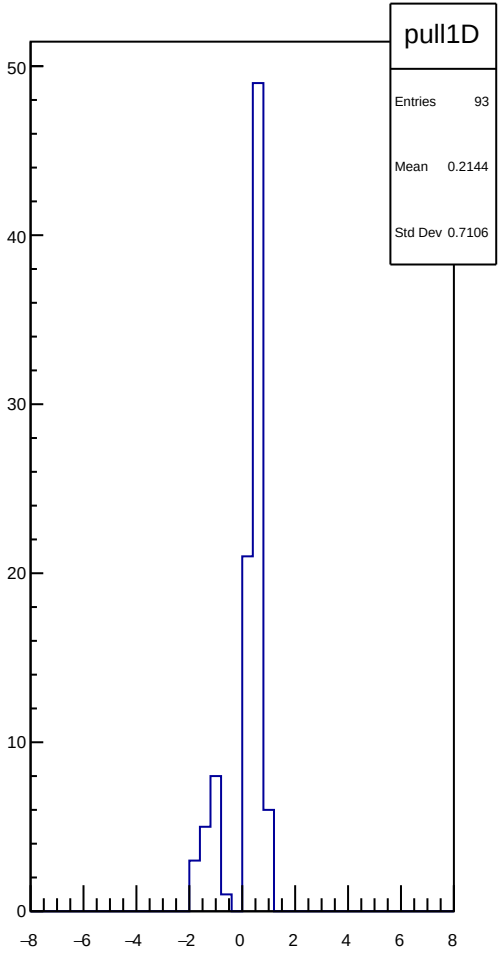

pull1D
Entries 93
Mean −0.00285
Std Dev 0.176
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

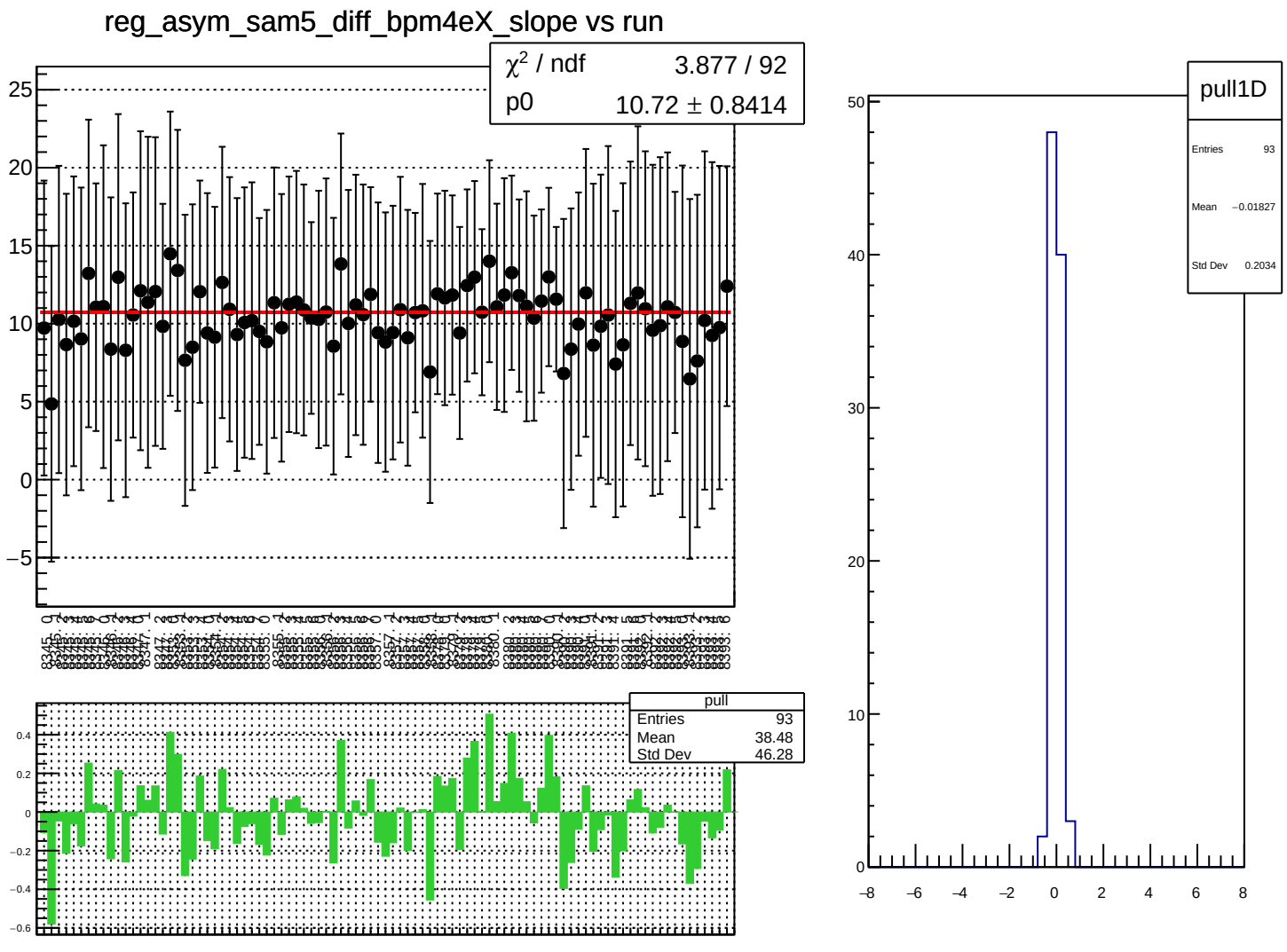

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 32.21 / 92
p0 1.06 ± 0.4126
pull
Entries 93
Mean −37.46
Std Dev 0
pull1D
Entries 93
Mean 0.03667
Std Dev 0.5874

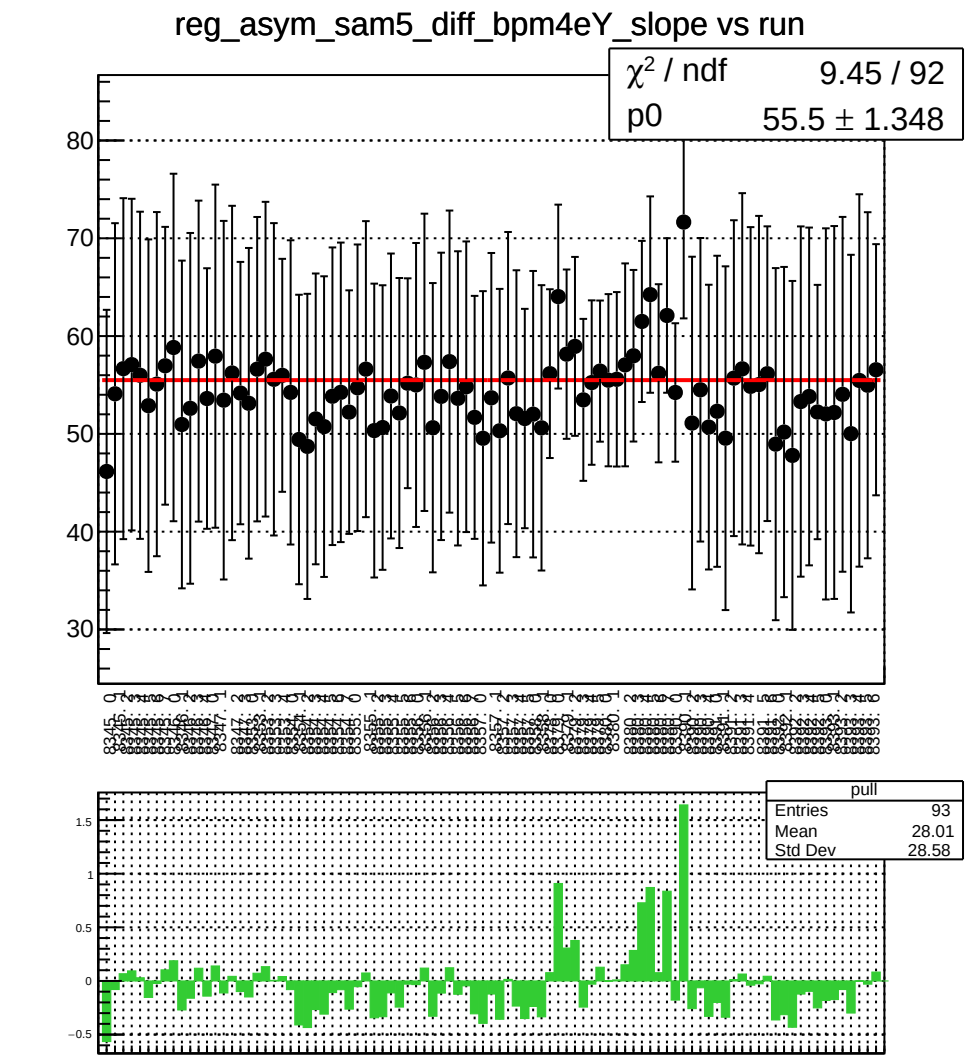

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 9.391 / 92
p0 −3.585 ± 0.793
pull
Entries 93
Mean −72.74
Std Dev 0

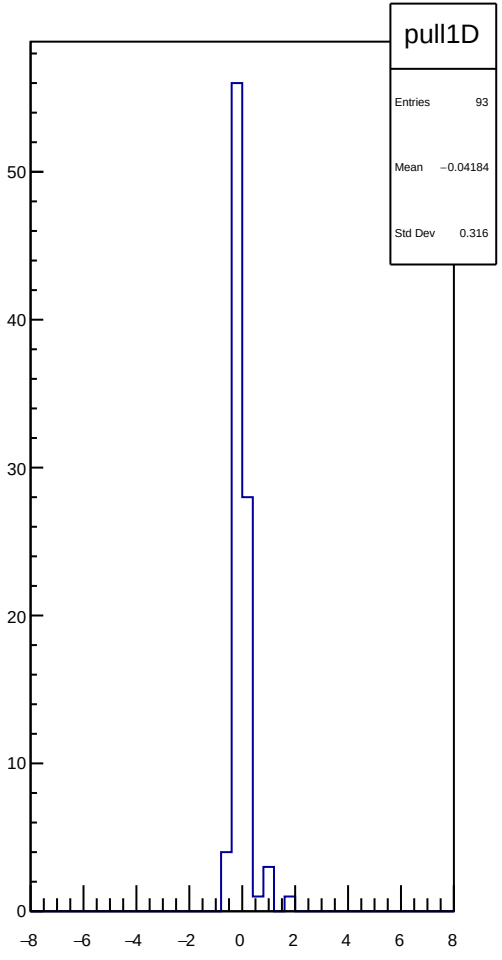

pull1D
Entries 93
Mean 0.01586
Std Dev 0.3174

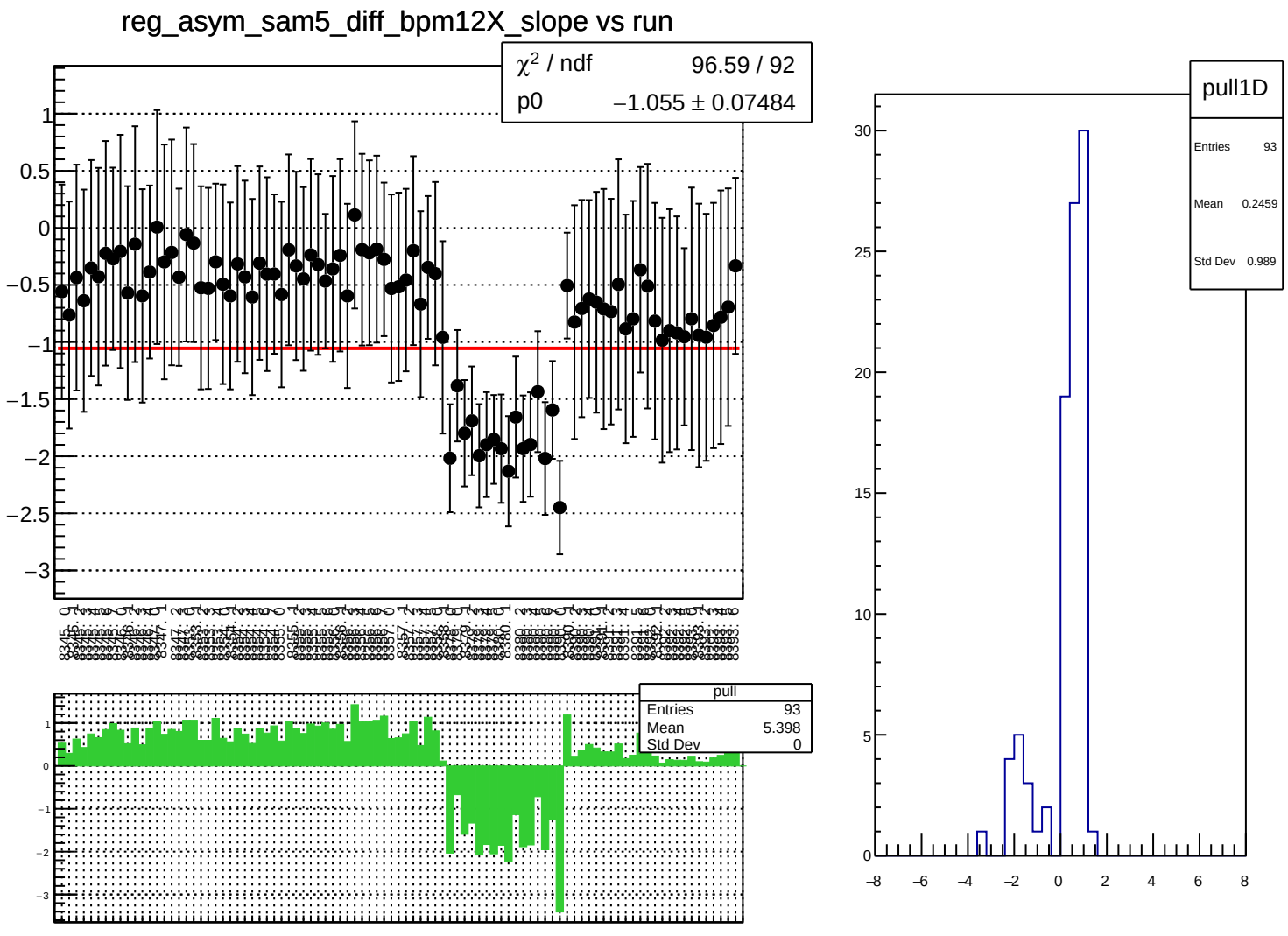

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 51.23 / 92
p0 91 ± 1.246
120
110
100
90
80
70
pull
Entries 93
Mean 23.19
Std Dev 28.07
1
0.5
0
−0.5
−1
−1.5
−2

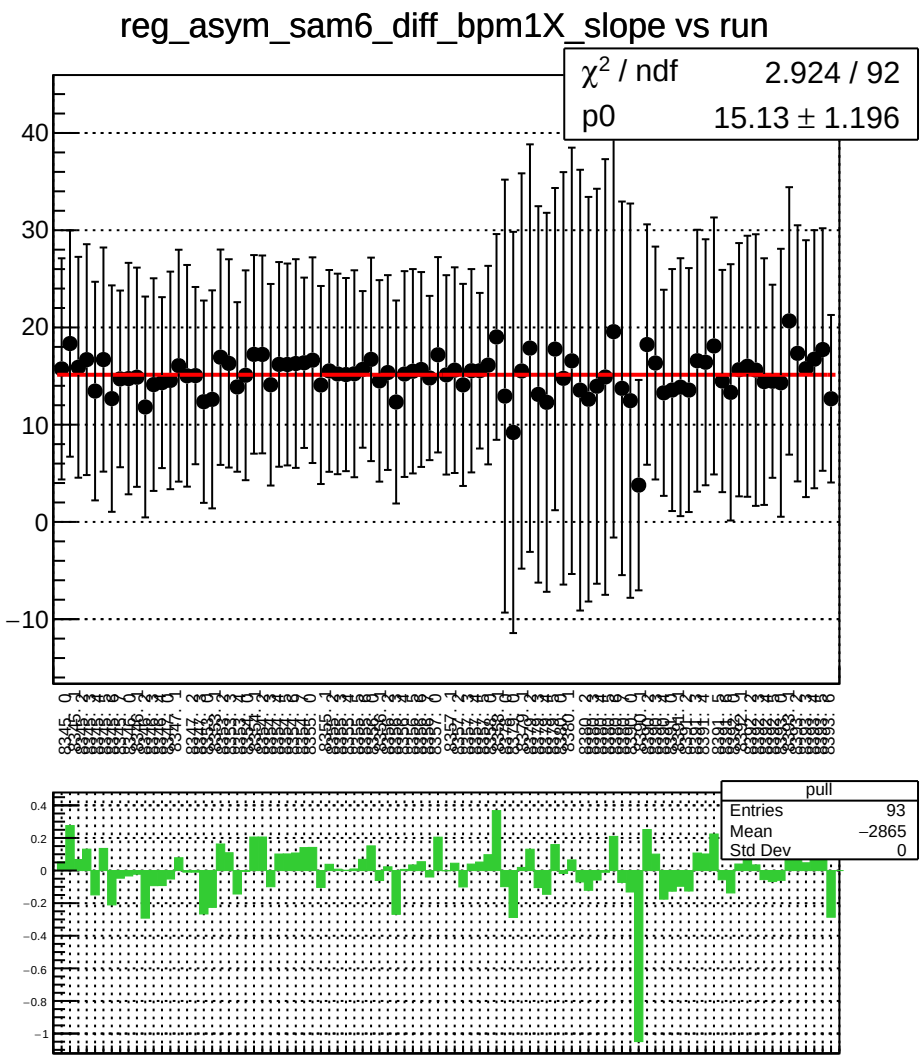

pull1D
Entries 93
Mean 0.2144
Std Dev 0.7106
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

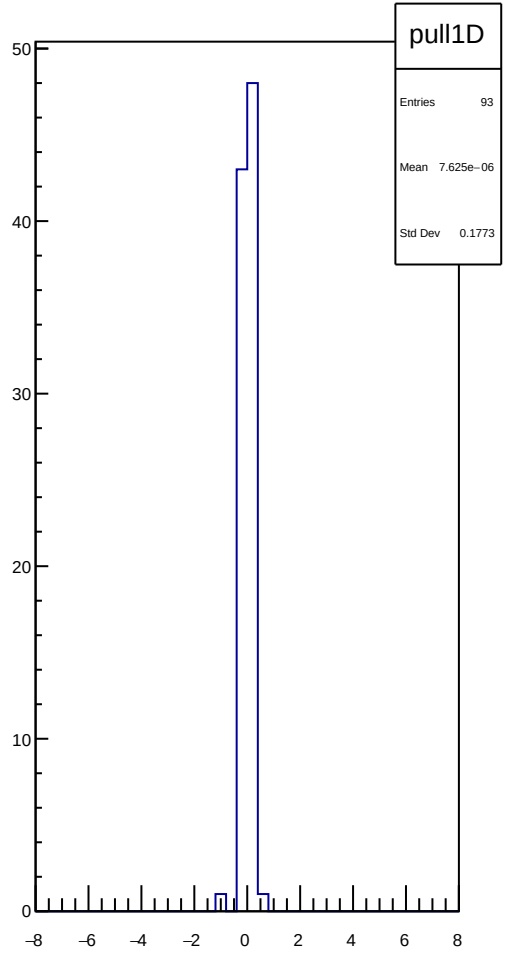

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 3.877 / 92
p0 10.72 ± 0.8414
pull
Entries 93
Mean 38.48
Std Dev 46.28
pull1D
Entries 93
Mean −0.01827
Std Dev 0.2034

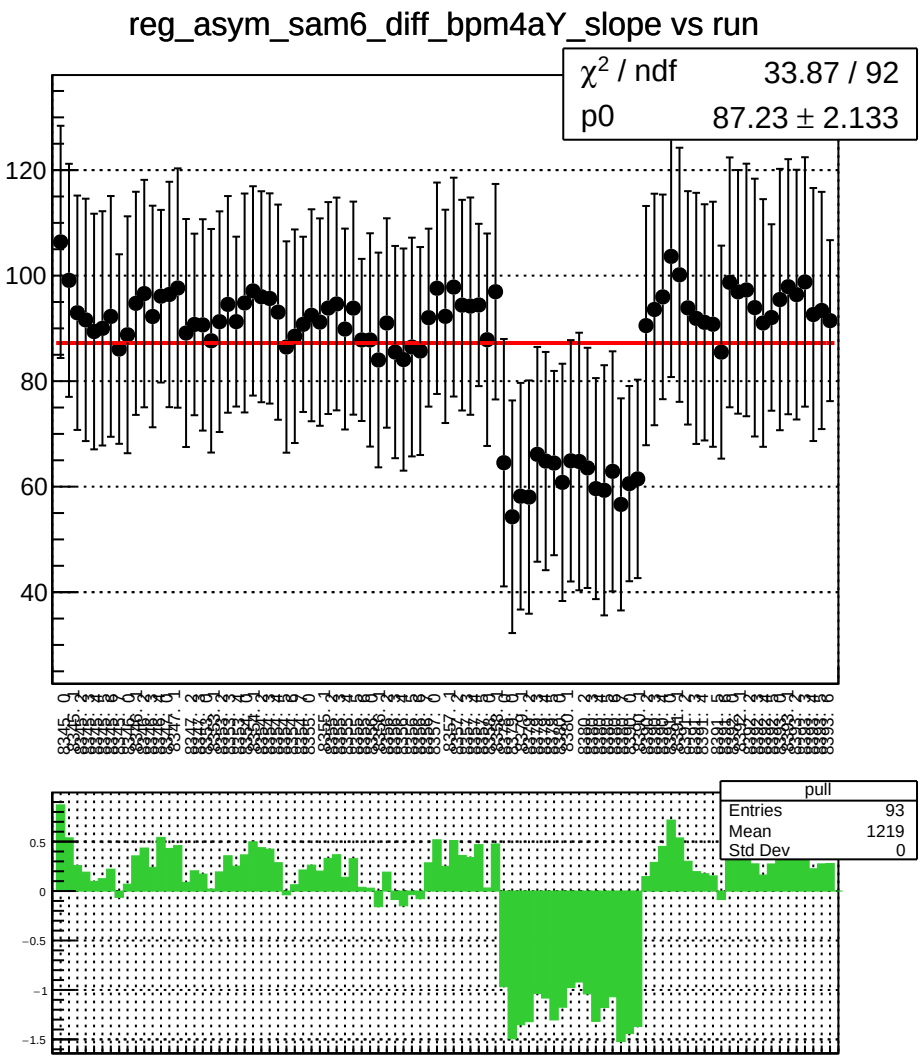

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 9.45 / 92
p0 55.5 ± 1.348
pull
Entries 93
Mean 28.01
Std Dev 28.58

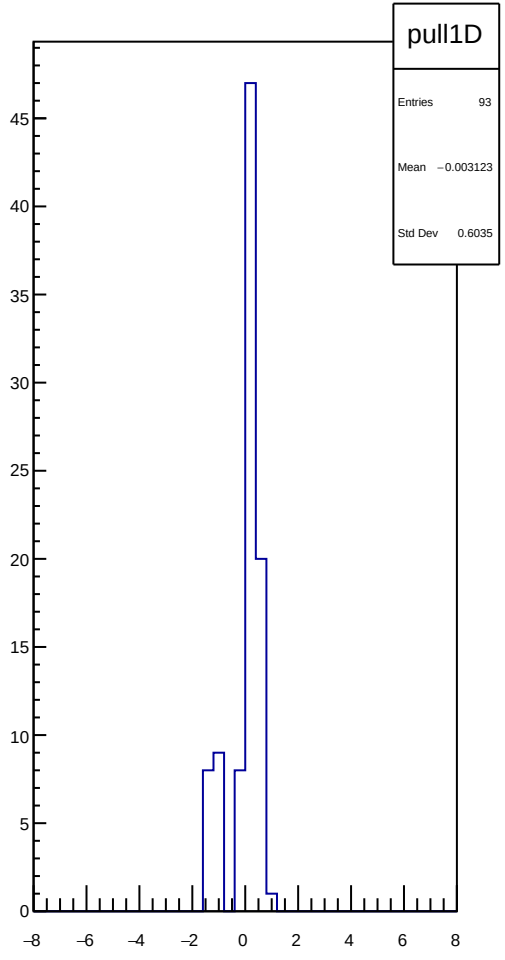

pull1D
Entries 93
Mean −0.04184
Std Dev 0.316

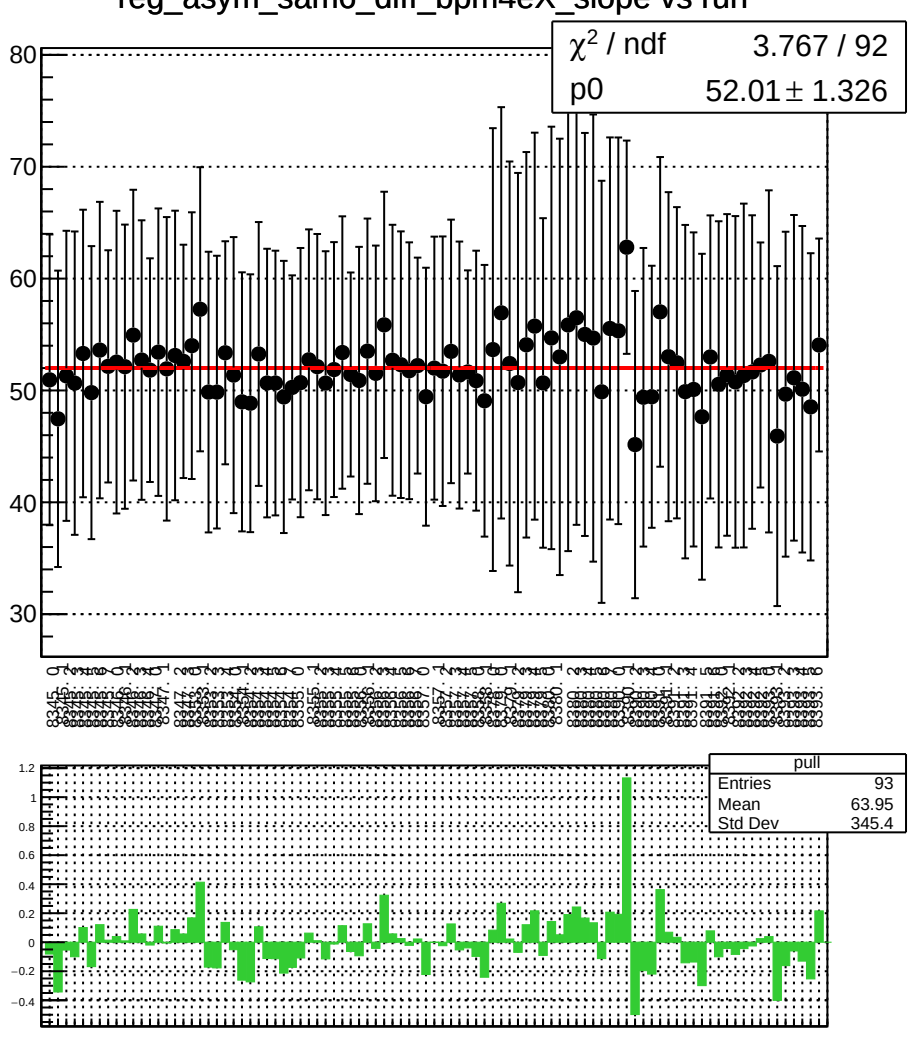

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 96.59 / 92
p0 −1.055 ± 0.07484
pull
Entries 93
Mean 5.398
Std Dev 0
pull1D
Entries 93
Mean 0.2459
Std Dev 0.989

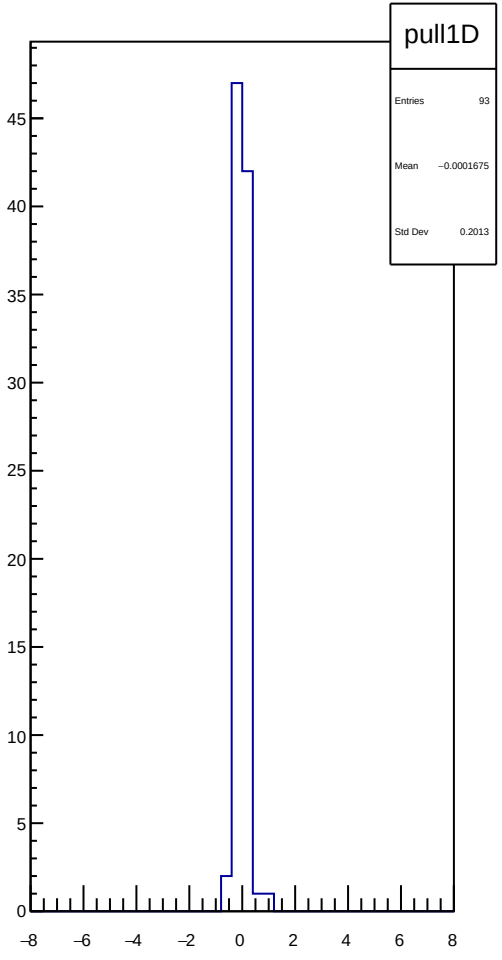

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 2.924 / 92
p0 15.13 ± 1.196
pull
Entries 93
Mean −2865
Std Dev 0

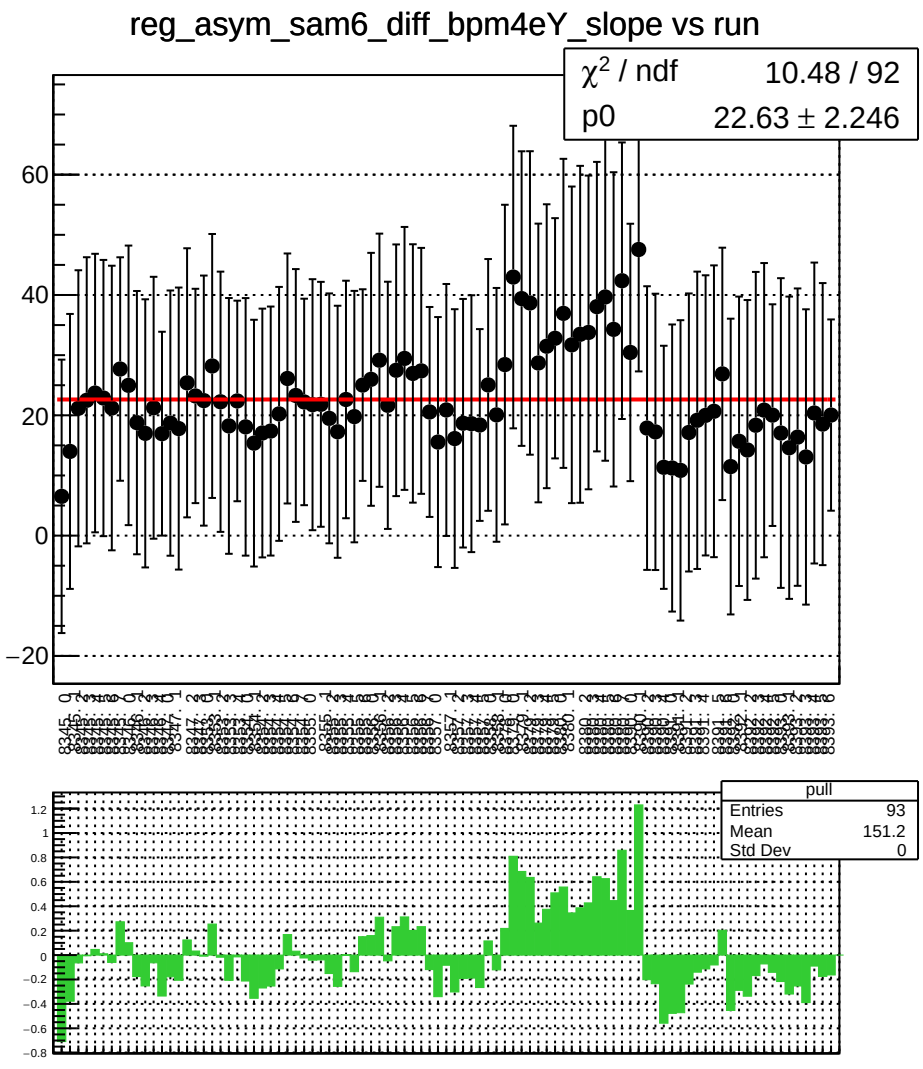

pull1D
Entries 93
Mean 7.625e−06
Std Dev 0.1773

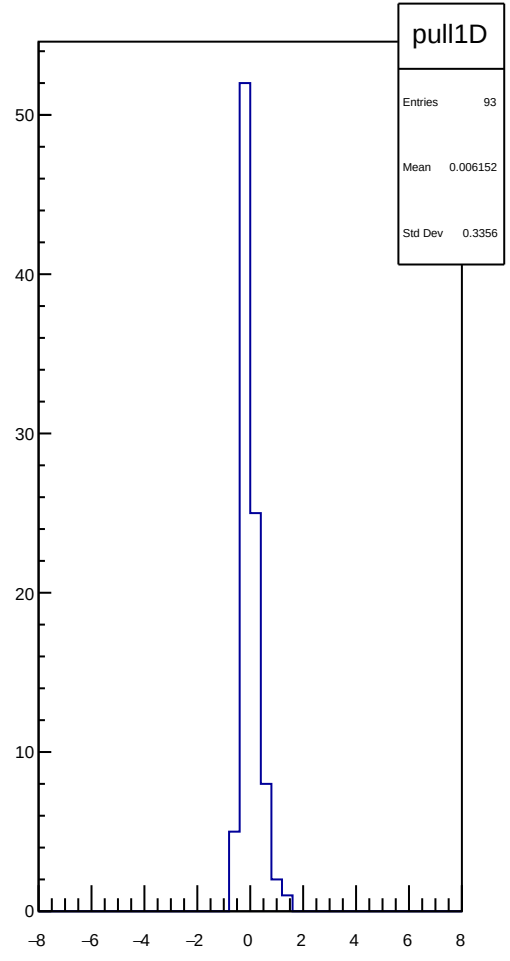

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 33.87 / 92
p0 87.23 ± 2.133
120
100
80
60
40
pull
Entries 93
Mean 1219
Std Dev 0
0.5
0
−0.5
−1
−1.5

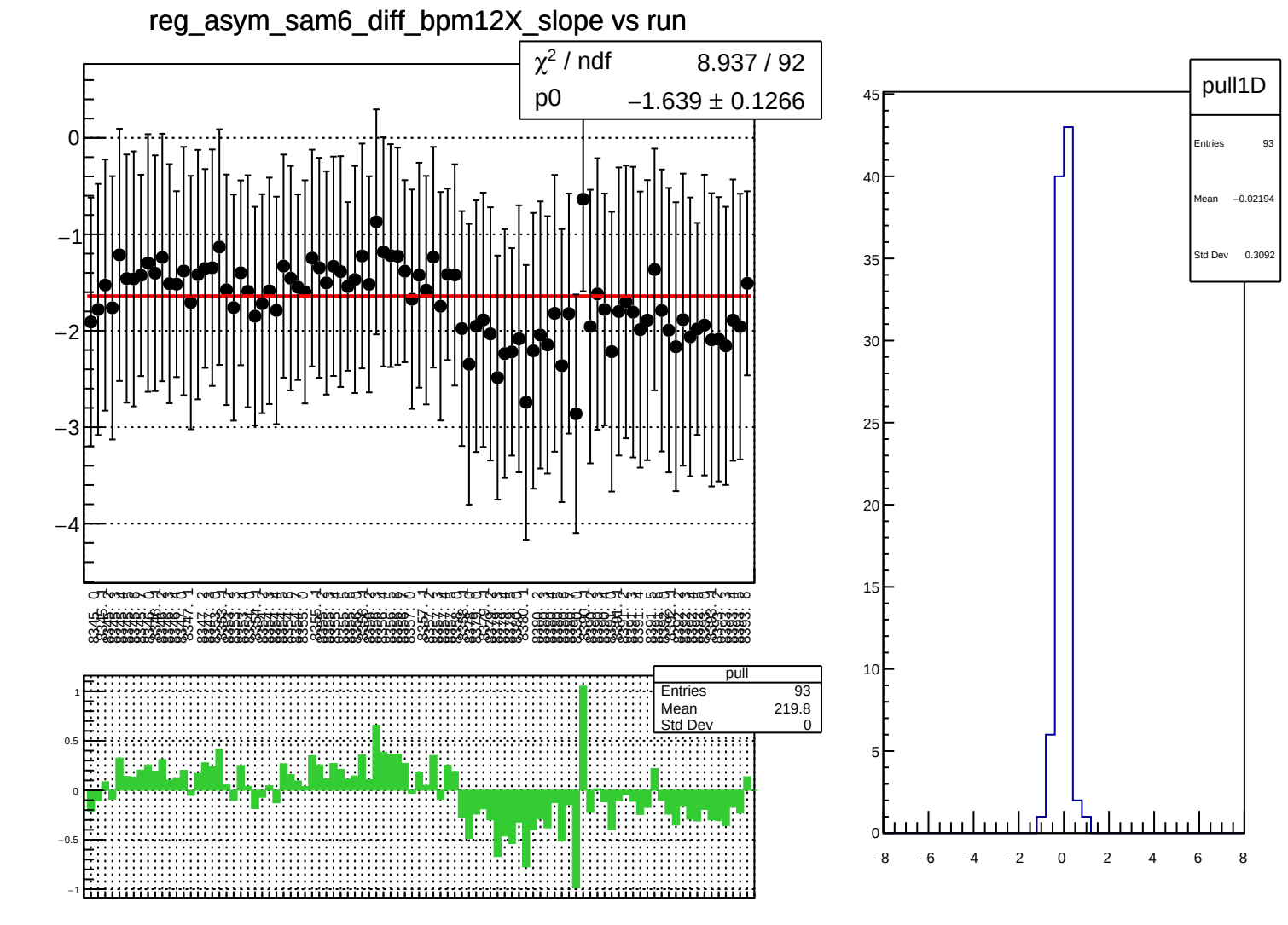

pull1D
Entries 93
Mean −0.003123
Std Dev 0.6035
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

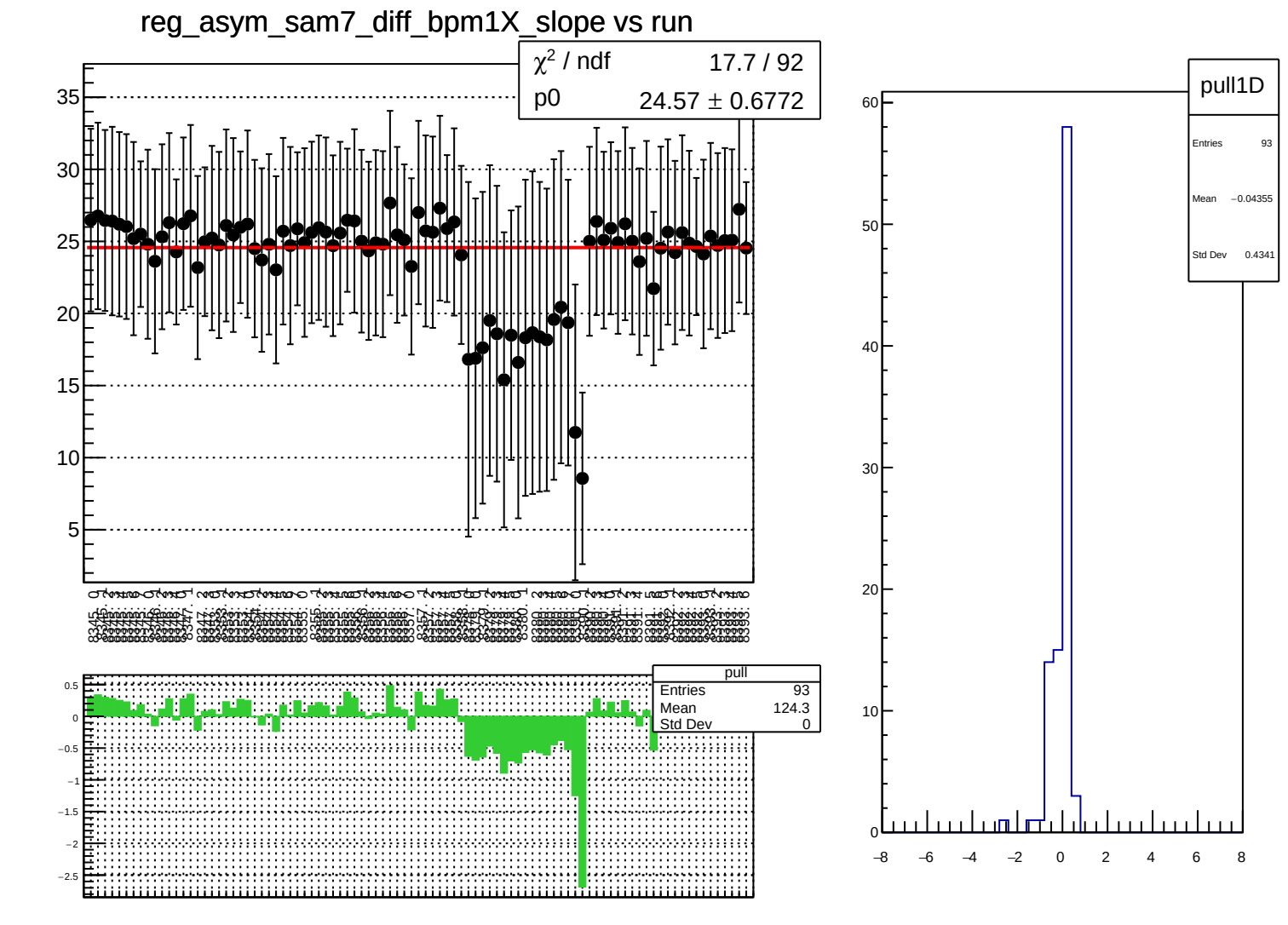

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 3.767 / 92
p0 52.01 ± 1.326
pull
Entries 93
Mean 63.95
Std Dev 345.4

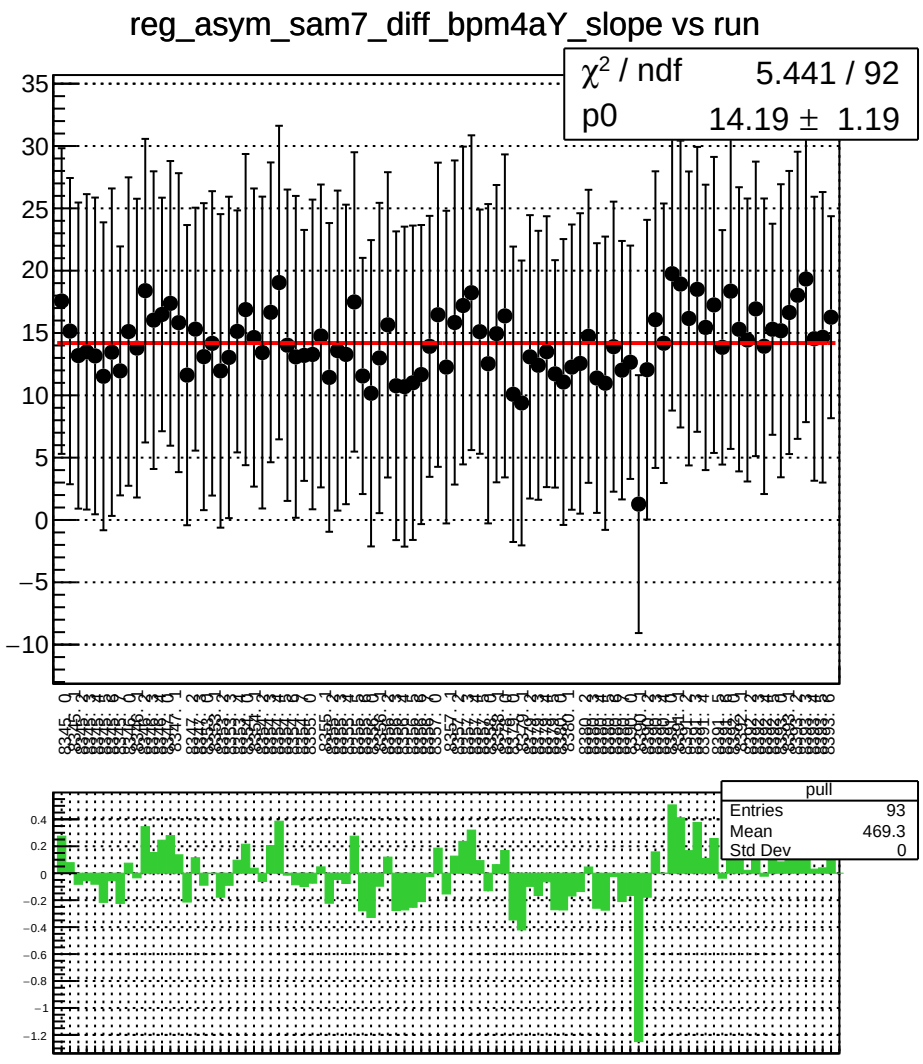

pull1D
Entries 93
Mean −0.0001675
Std Dev 0.2013

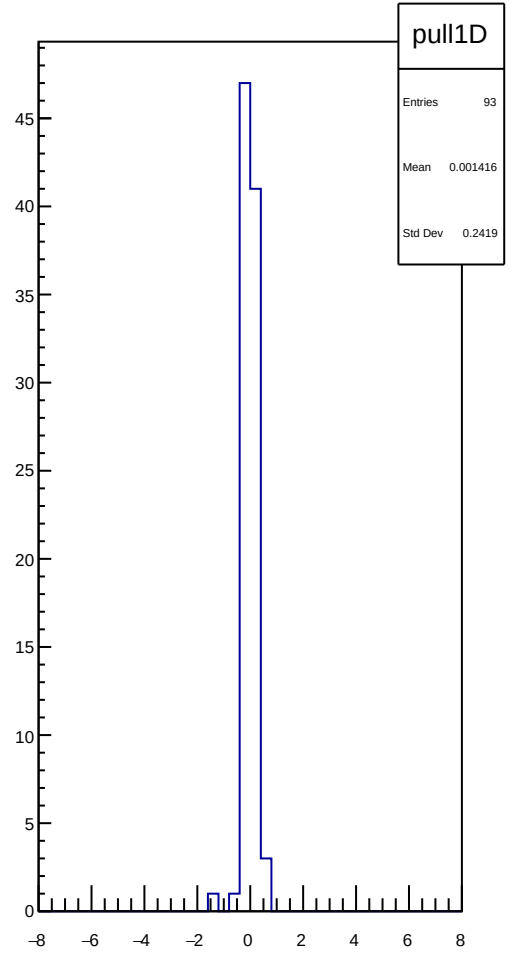

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 10.48 / 92
p0 22.63 ± 2.246
pull
Entries 93
Mean 151.2
Std Dev 0

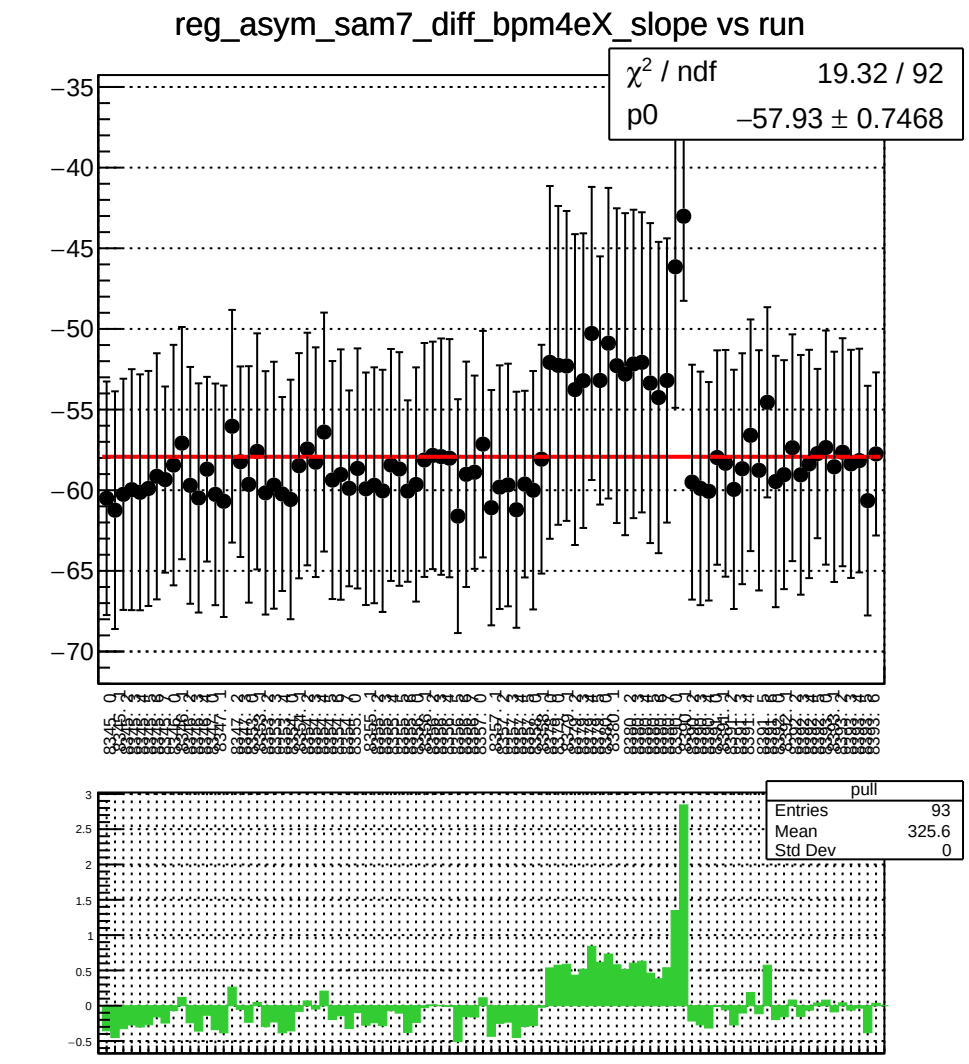

pull1D
Entries 93
Mean 0.006152
Std Dev 0.3356

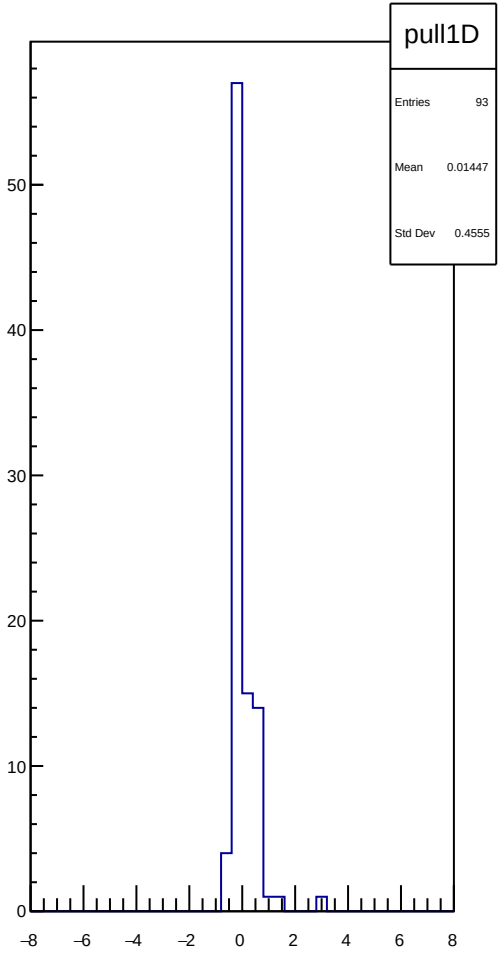

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 8.937 / 92
p0 −1.639 ± 0.1266
pull
Entries 93
Mean 219.8
Std Dev 0
pull1D
Entries 93
Mean −0.02194
Std Dev 0.3092

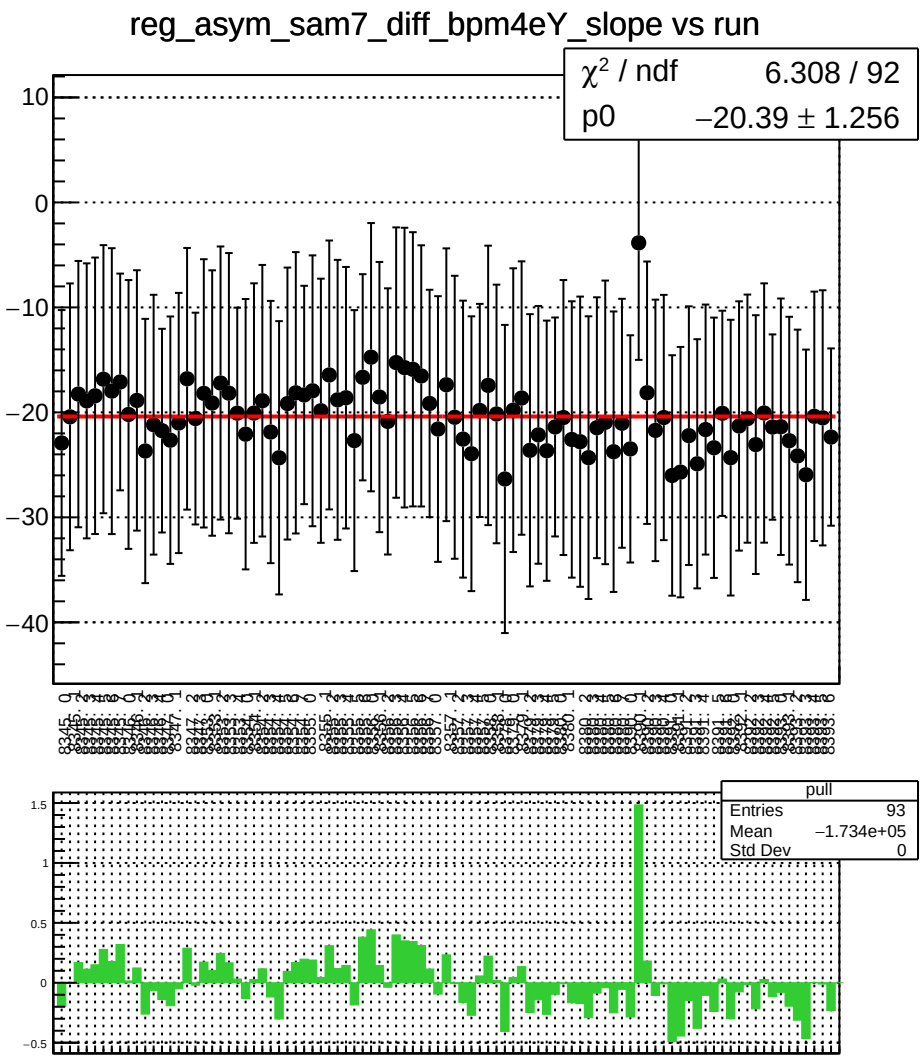

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 17.7 / 92
p0 24.57 ± 0.6772
pull
Entries 93
Mean 124.3
Std Dev 0
pull1D
Entries 93
Mean −0.04355
Std Dev 0.4341

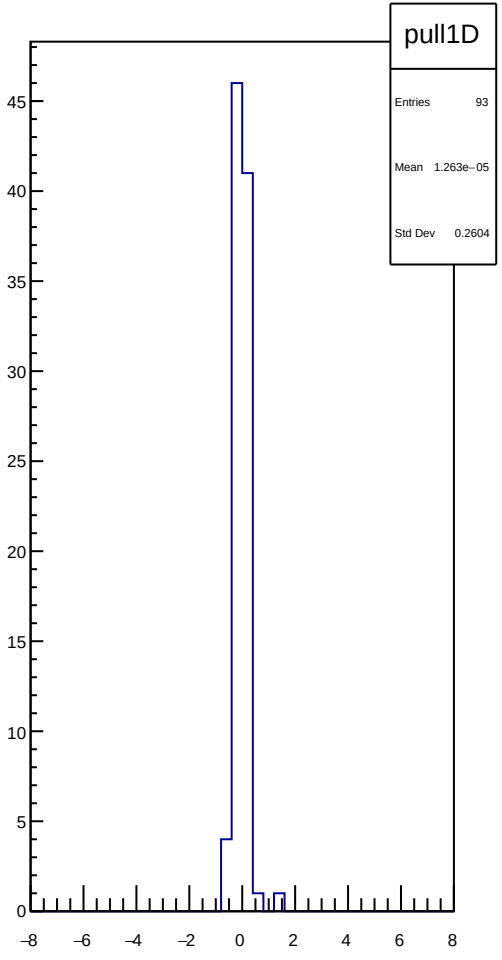

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 5.441 / 92
p0 14.19 ± 1.19
pull
Entries 93
Mean 469.3
Std Dev 0

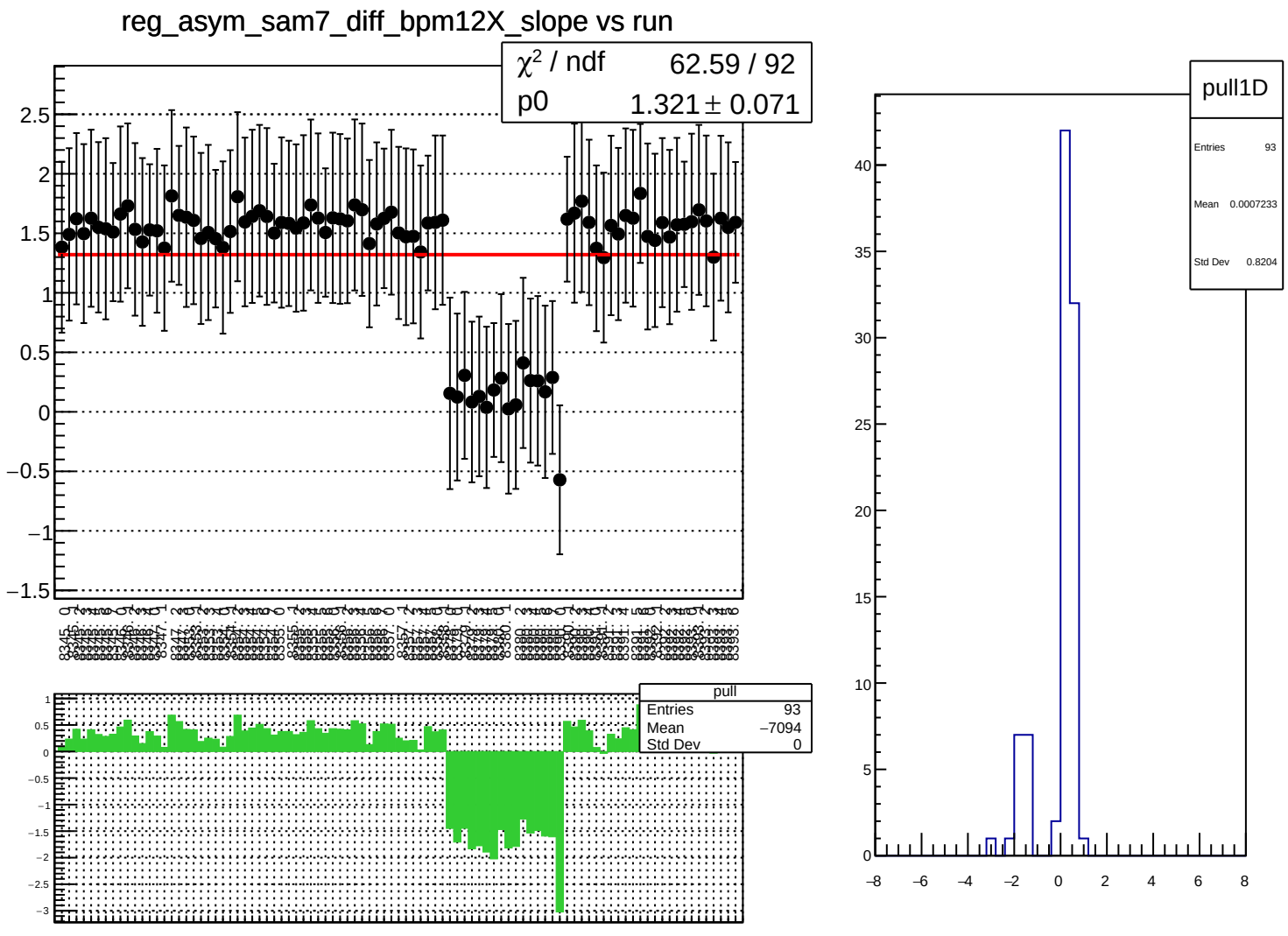

pull1D
Entries 93
Mean 0.001416
Std Dev 0.2419

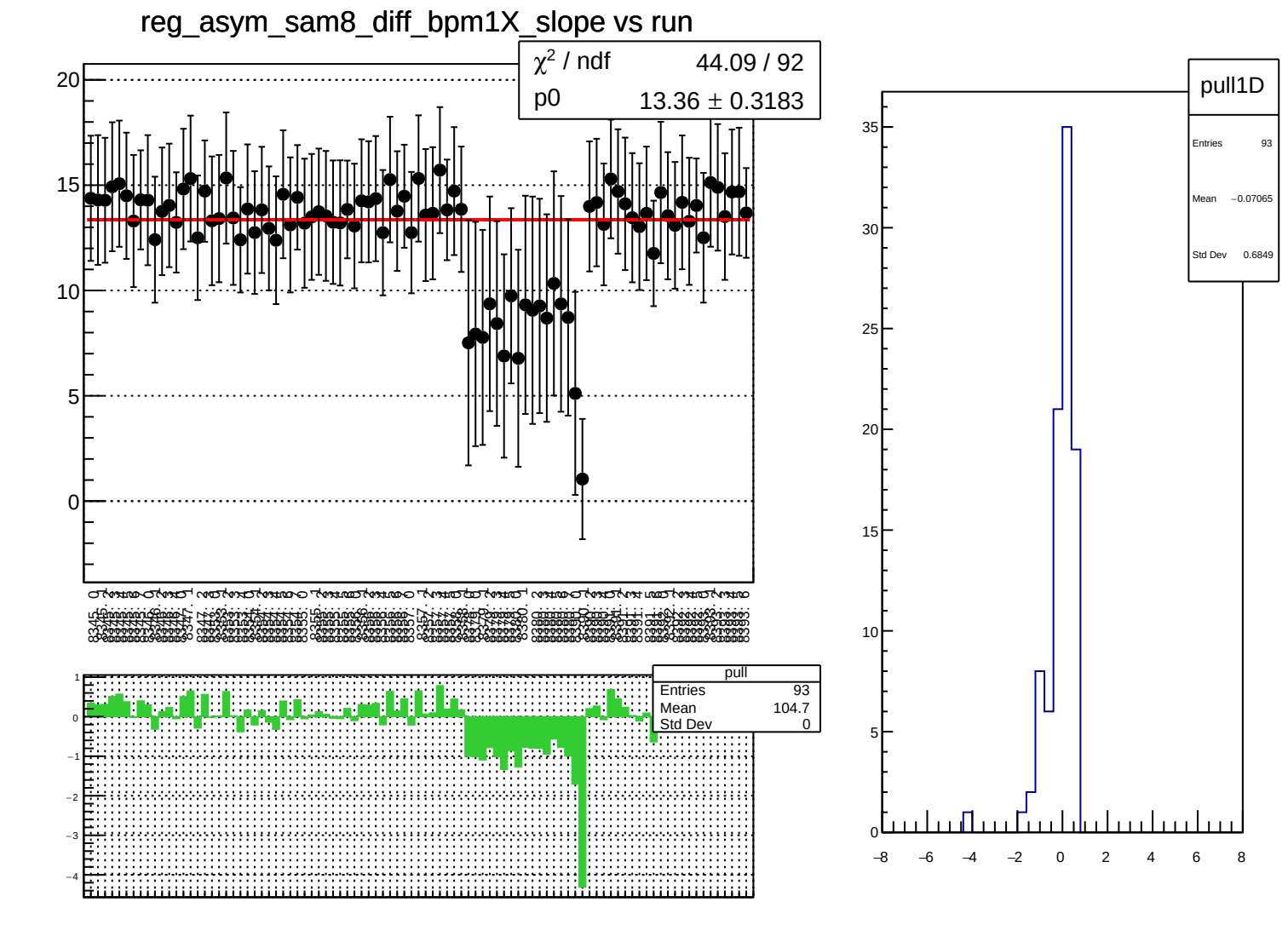

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 19.32 / 92
p0 −57.93 ± 0.7468
pull
Entries 93
Mean 325.6
Std Dev 0

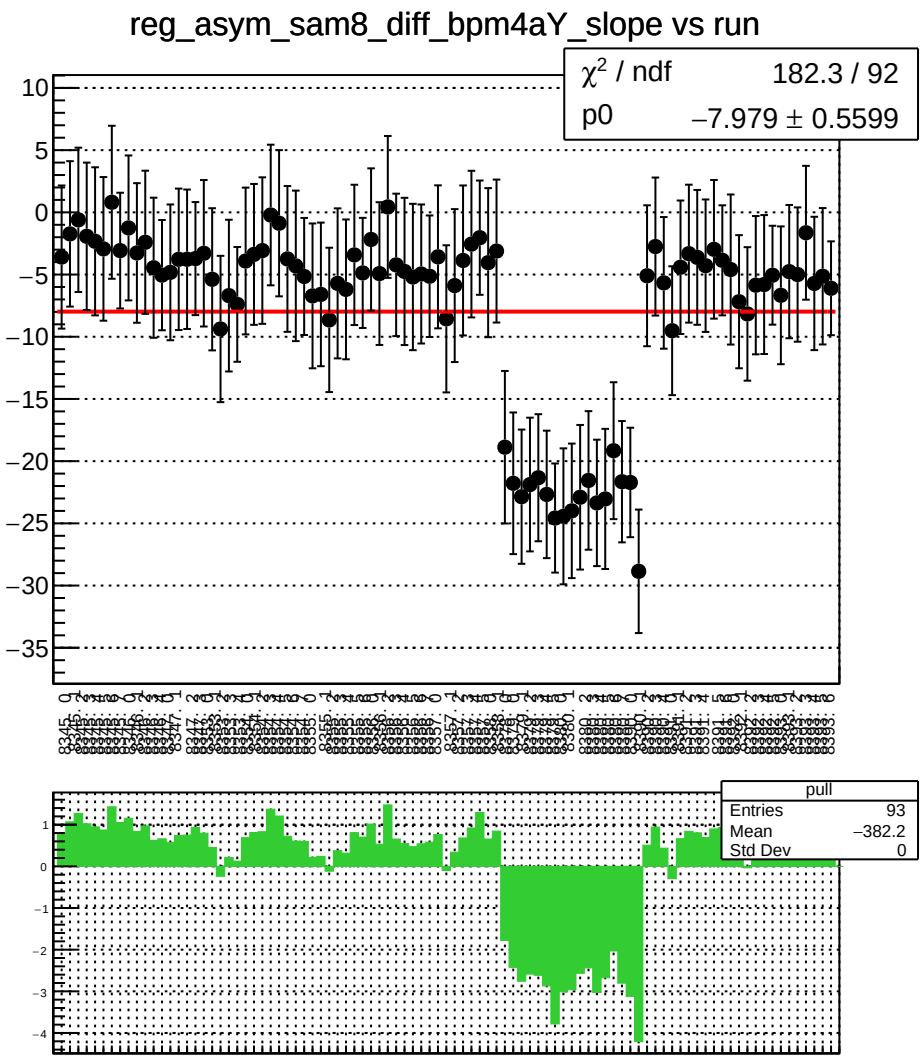

pull1D
Entries 93
Mean 0.01447
Std Dev 0.4555

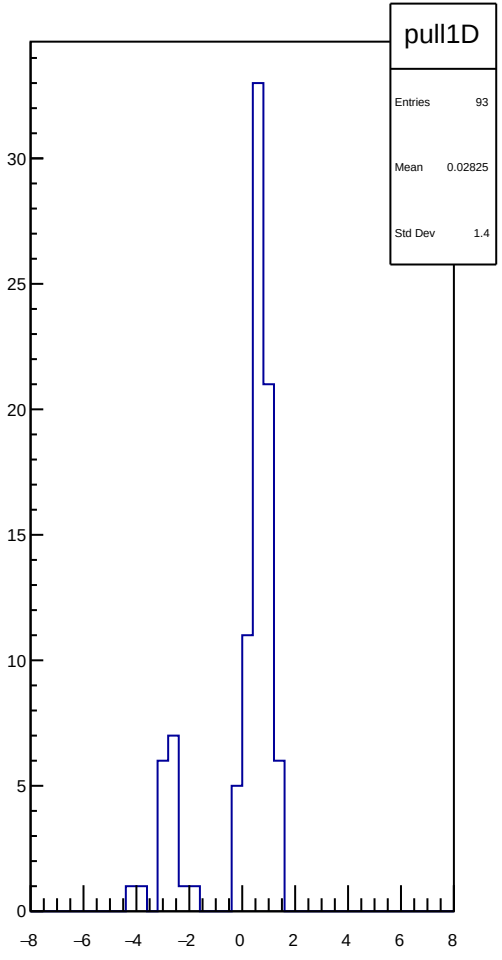

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 6.308 / 92
p0 −20.39 ± 1.256
pull
Entries 93
Mean −1.734e+05
Std Dev 0

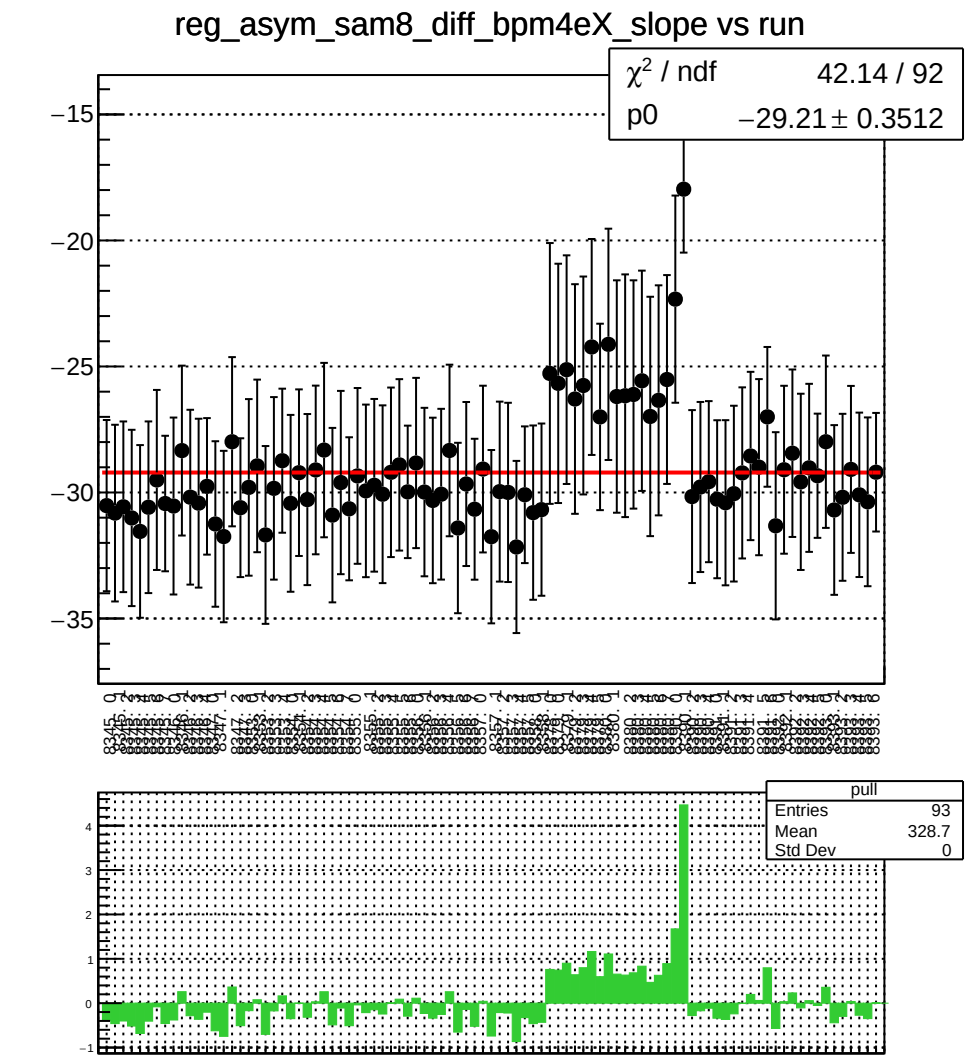

pull1D
Entries 93
Mean 1.263e−05
Std Dev 0.2604

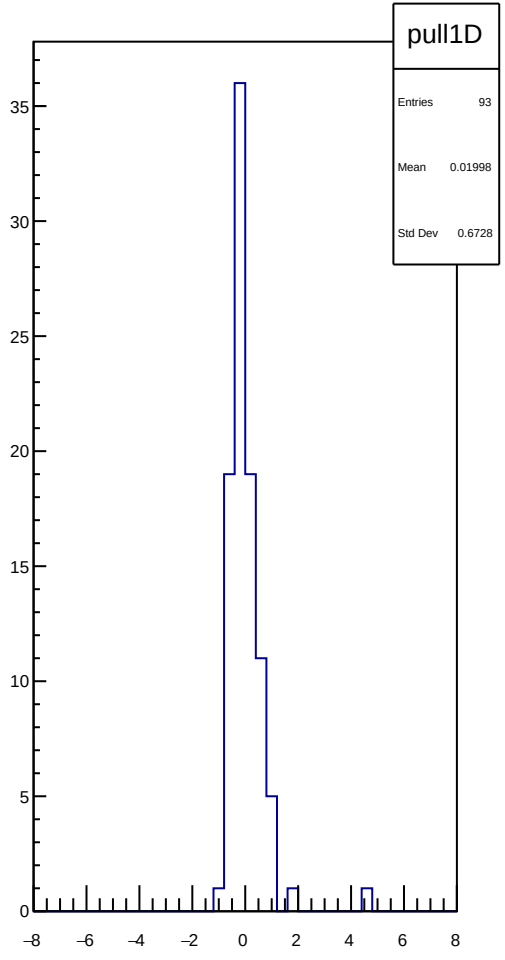

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 62.59 / 92
p0 1.321 ± 0.071
pull
Entries 93
Mean −7094
Std Dev 0
pull1D
Entries 93
Mean 0.0007233
Std Dev 0.8204

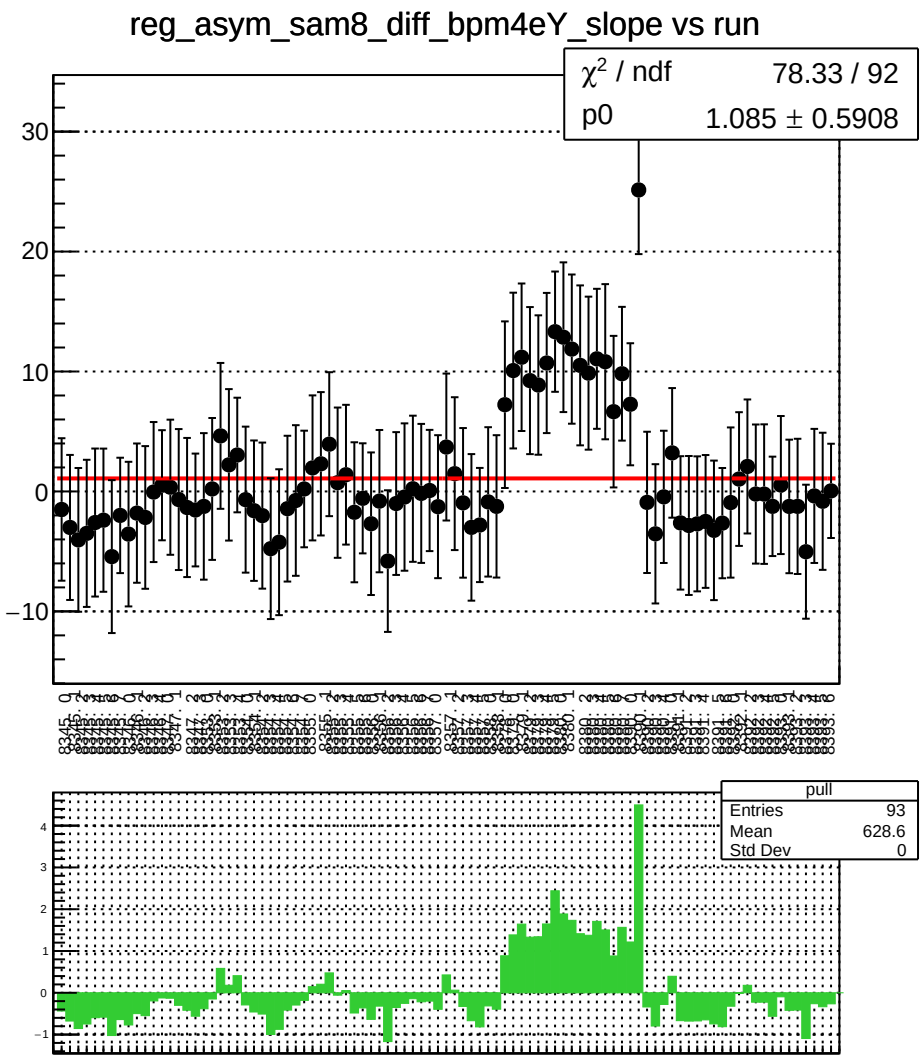

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 44.09 / 92
p0 13.36 ± 0.3183
pull
Entries 93
Mean 104.7
Std Dev 0
pull1D
Entries 93
Mean −0.07065
Std Dev 0.6849

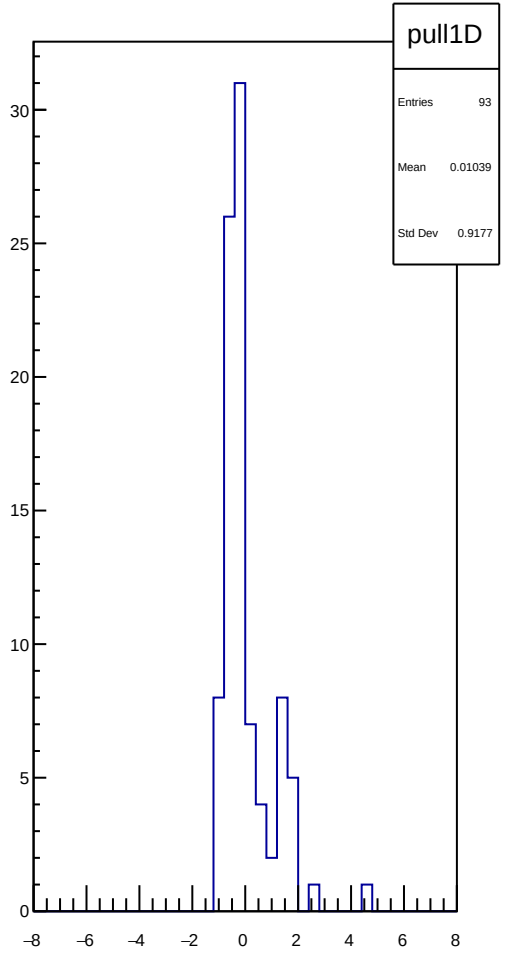

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 182.3 / 92
p0 −7.979 ± 0.5599
pull
Entries 93
Mean −382.2
Std Dev 0

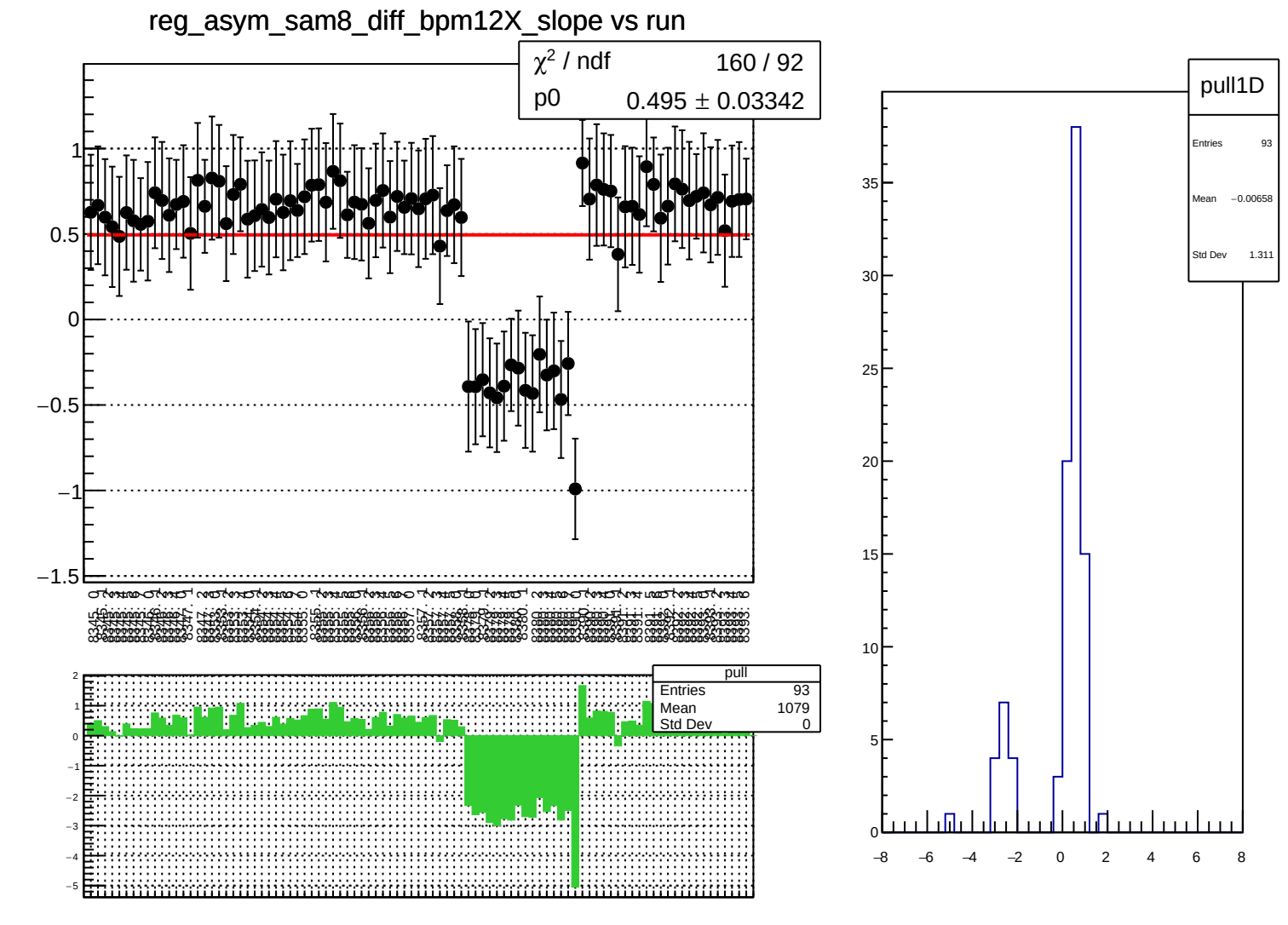

pull1D
Entries 93
Mean 0.02825
Std Dev 1.4

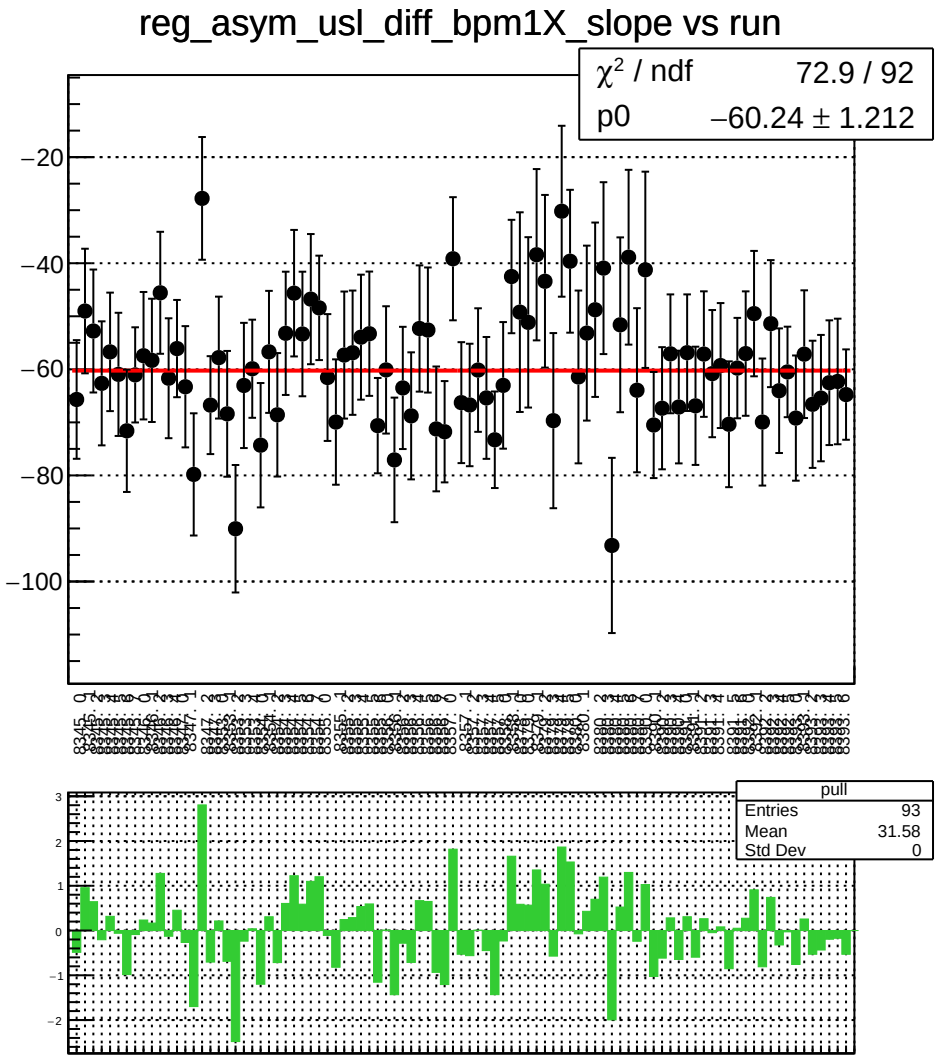

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 42.14 / 92
p0 −29.21 ± 0.3512
−15
−20
−25
−30
−35
pull
Entries 93
Mean 328.7
Std Dev 0
4
3
2
1
0
−1

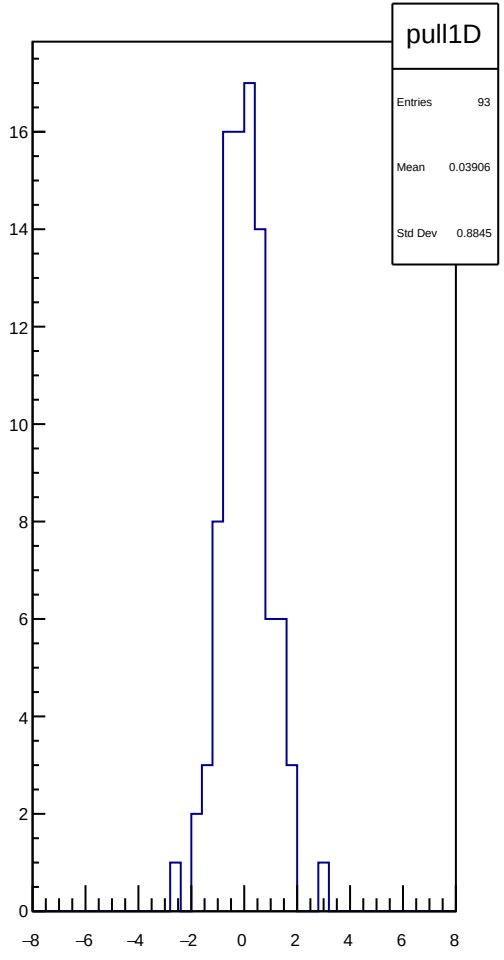

pull1D
Entries 93
Mean 0.01998
Std Dev 0.6728
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

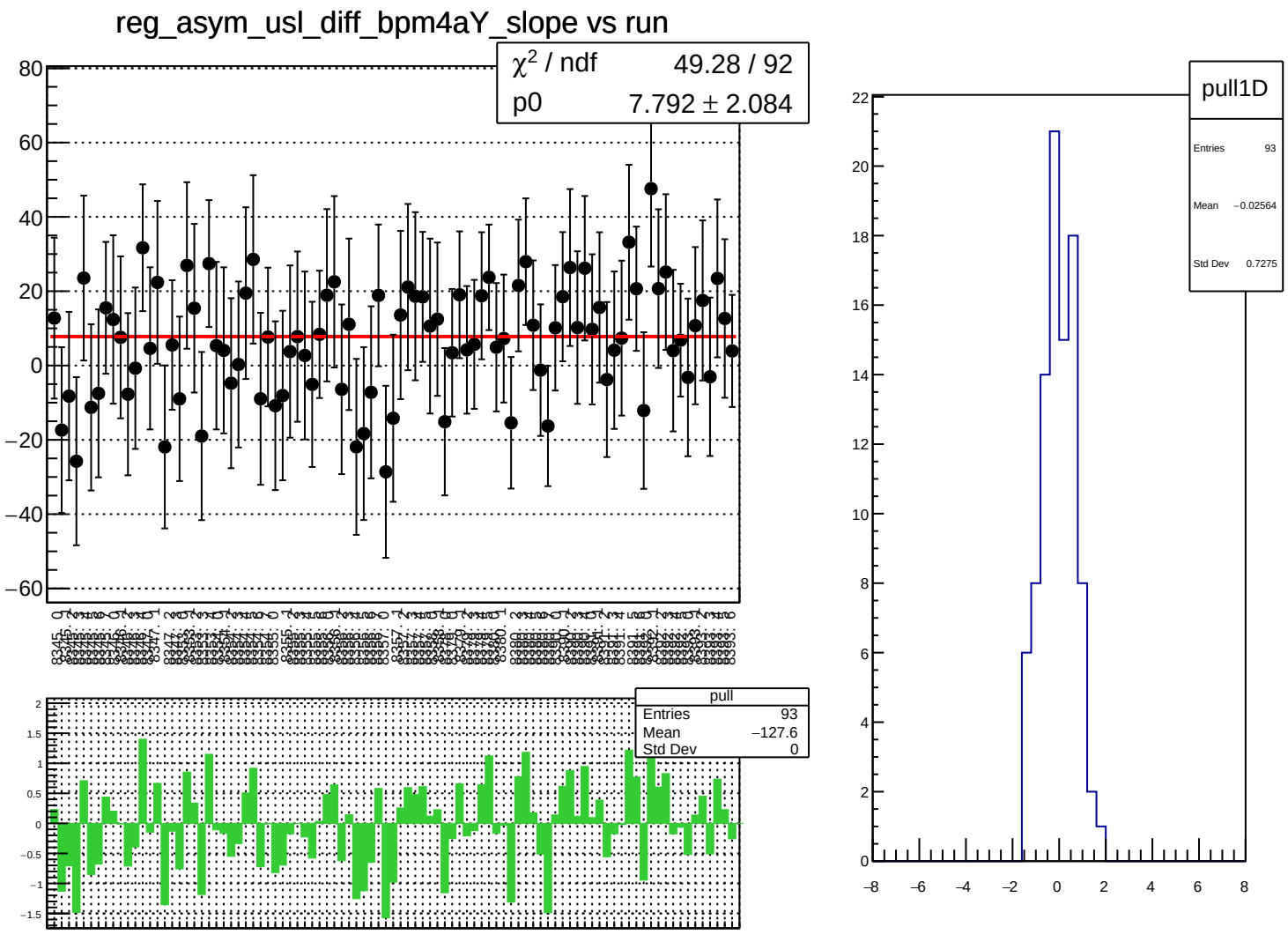

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 78.33 / 92
p0 1.085 ± 0.5908
30
20
10
0
−10
pull
Entries 93
Mean 628.6
Std Dev 0
4
3
2
1
0
−1

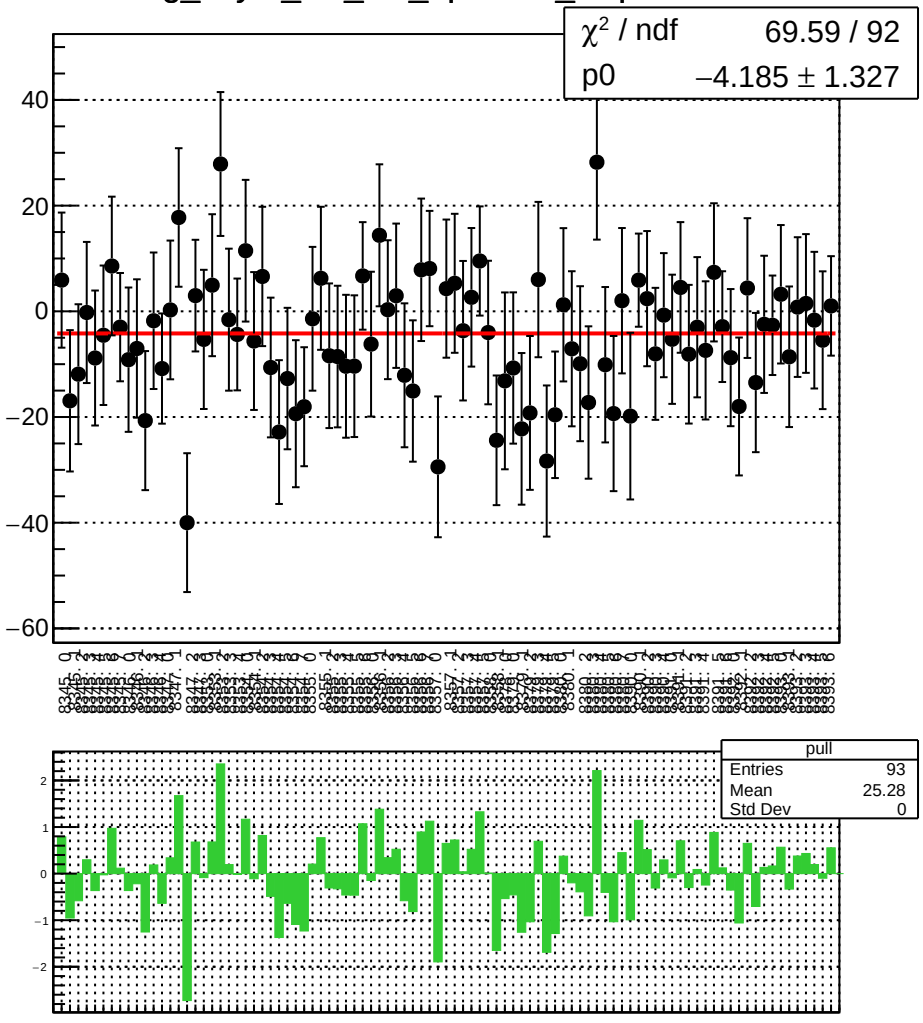

pull1D
Entries 93
Mean 0.01039
Std Dev 0.9177
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

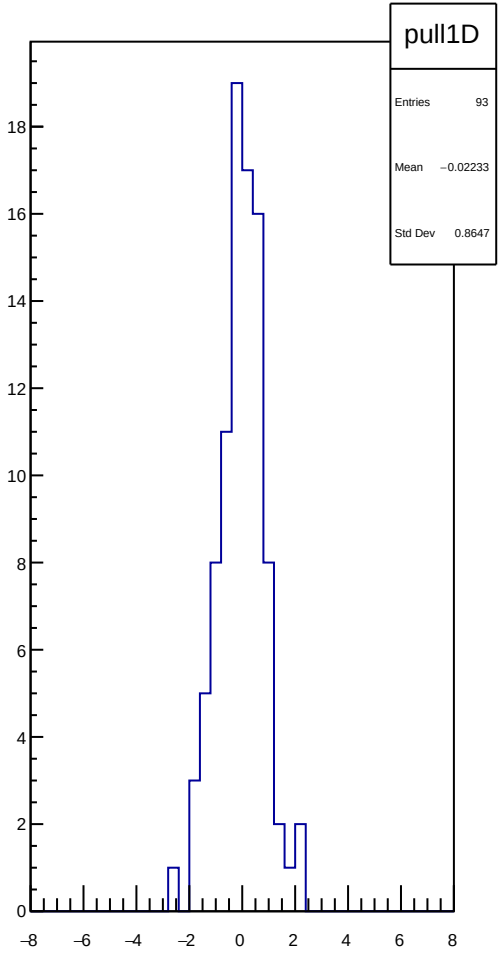

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 160 / 92
p0 0.495 ± 0.03342
pull
Entries 93
Mean 1079
Std Dev 0
pull1D
Entries 93
Mean −0.00658
Std Dev 1.311

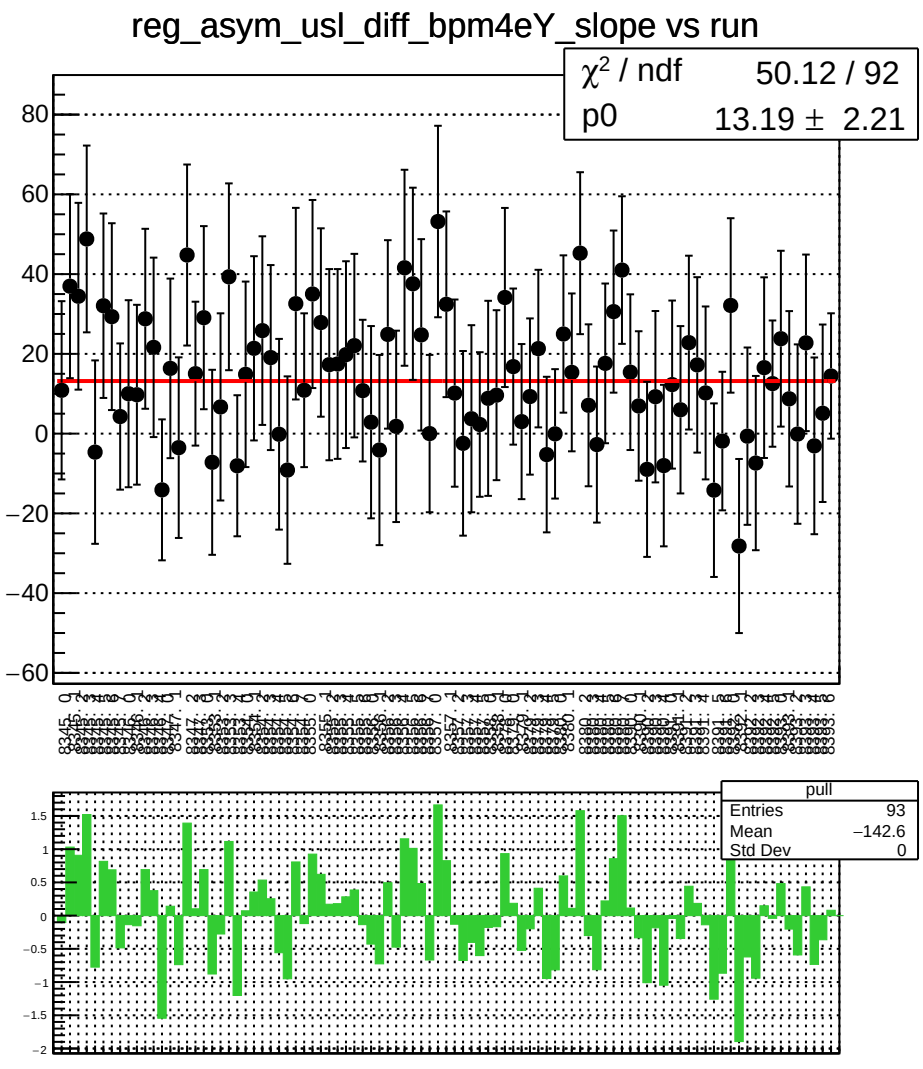

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 72.9 / 92
p0 −60.24 ± 1.212
−20
−40
−60
−80
−100
pull
Entries 93
Mean 31.58
Std Dev 0
3
2
1
0
−1
−2

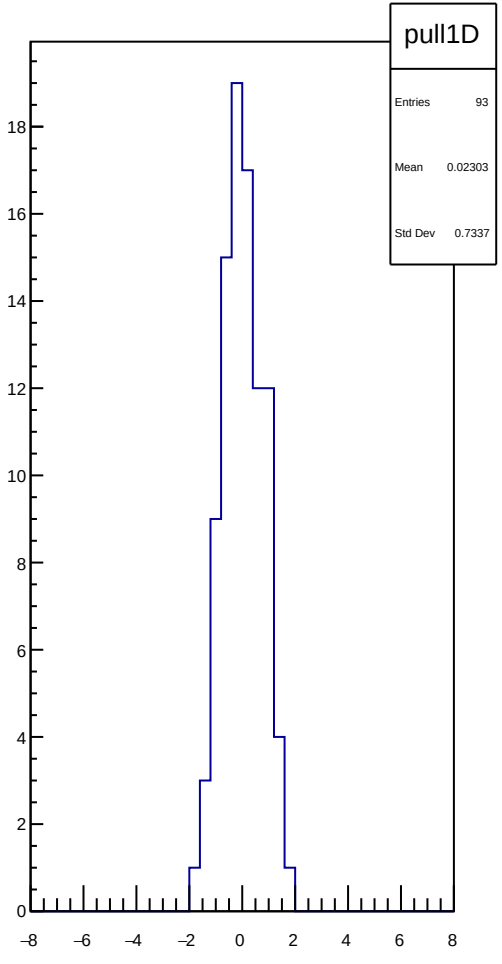

pull1D
Entries 93
Mean 0.03906
Std Dev 0.8845
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

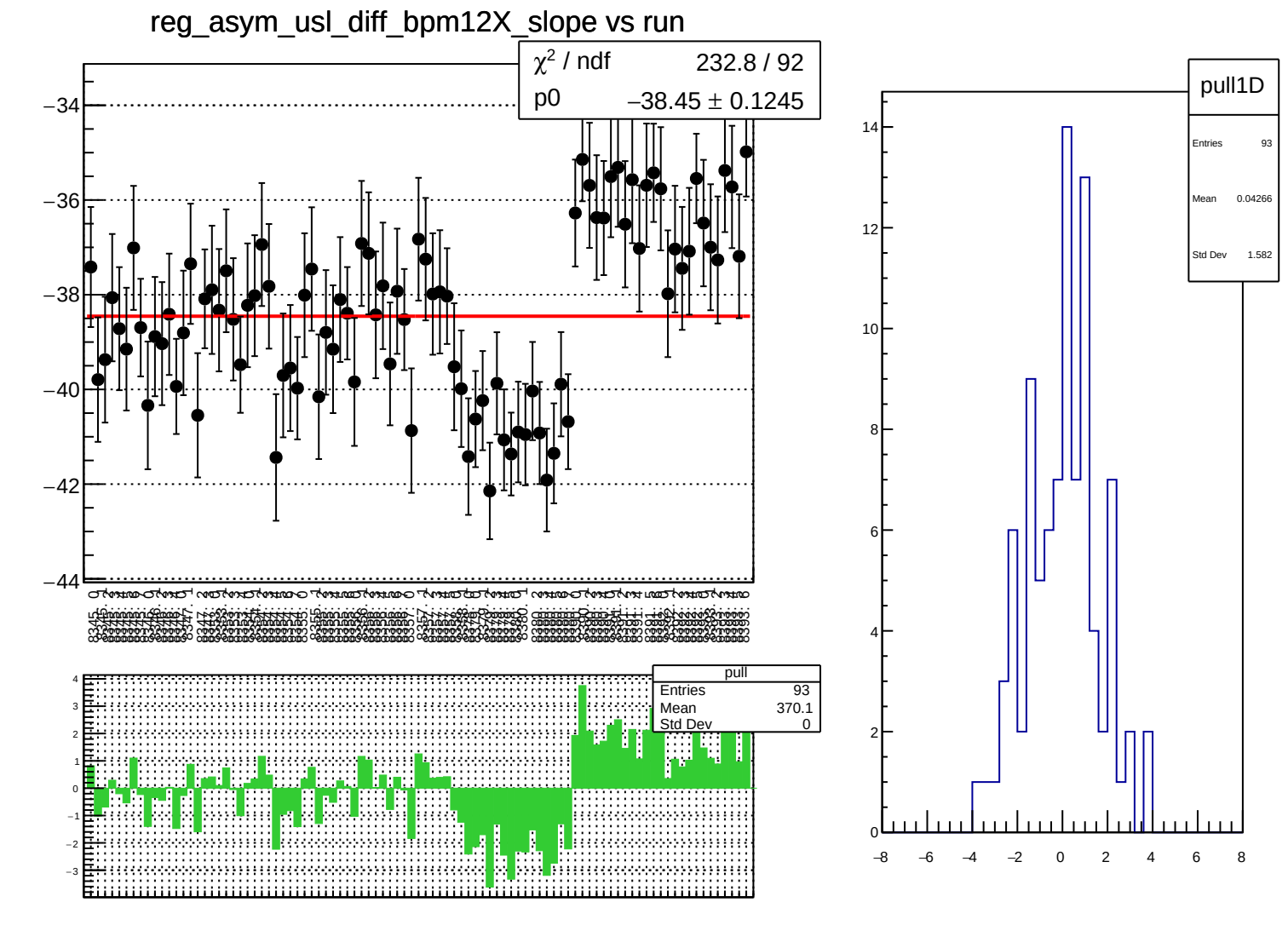

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 49.28 / 92
p0 7.792 ± 2.084
pull
Entries 93
Mean −127.6
Std Dev 0
pull1D
Entries 93
Mean −0.02564
Std Dev 0.7275

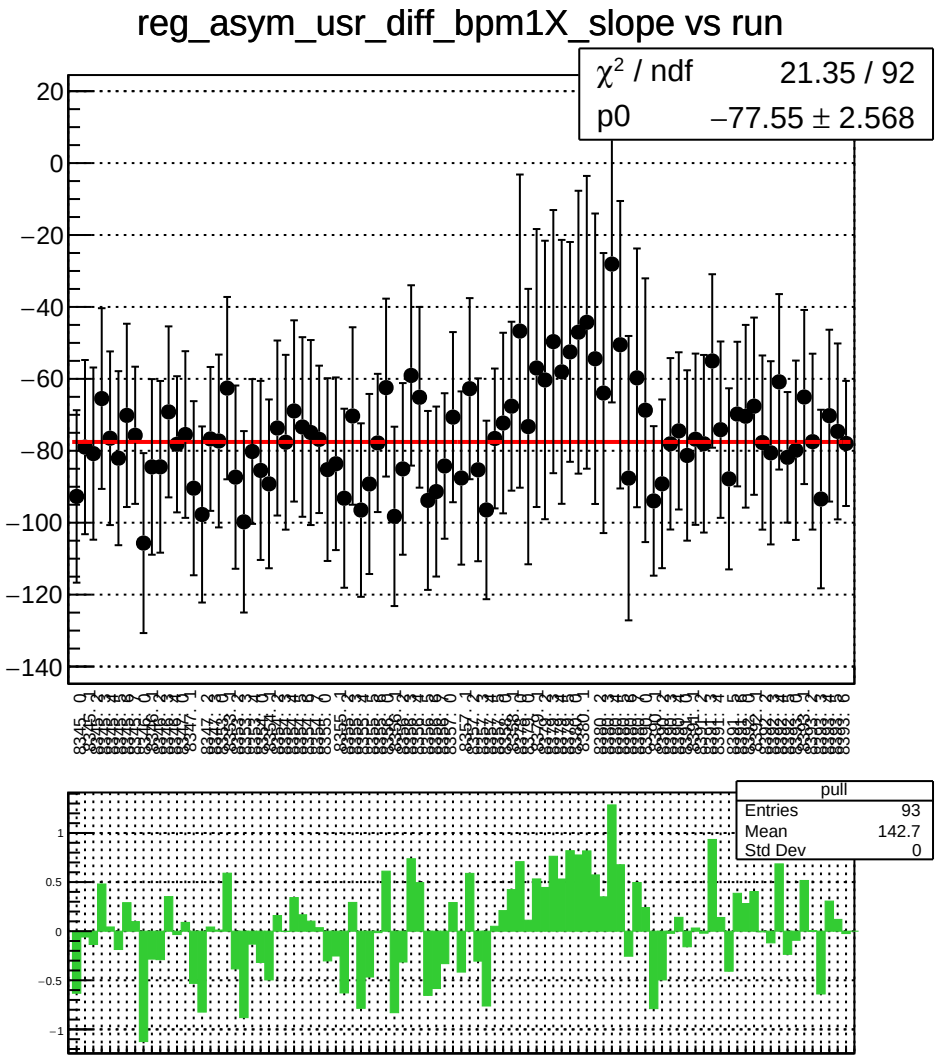

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 69.59 / 92
p0 −4.185 ± 1.327
pull
Entries 93
Mean 25.28
Std Dev 0

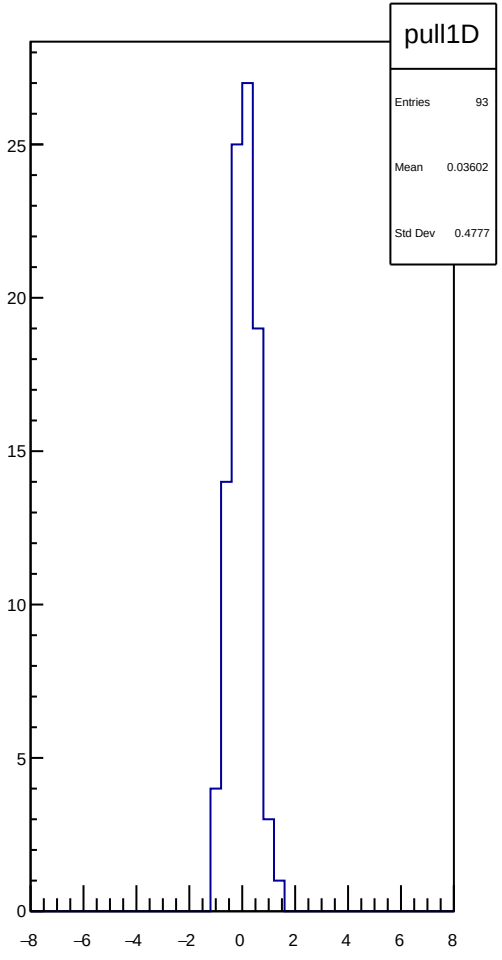

pull1D
Entries 93
Mean −0.02233
Std Dev 0.8647

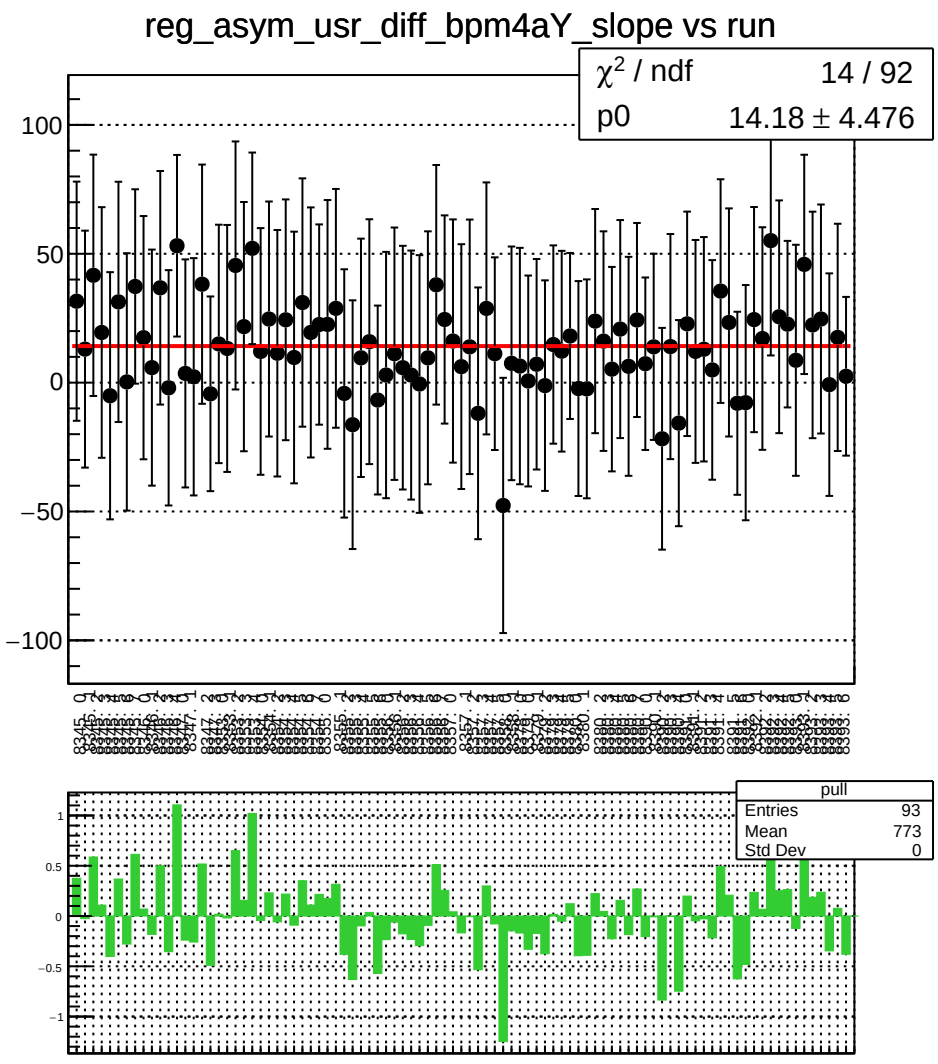

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 50.12 / 92
p0 13.19 ± 2.21
pull
Entries 93
Mean −142.6
Std Dev 0

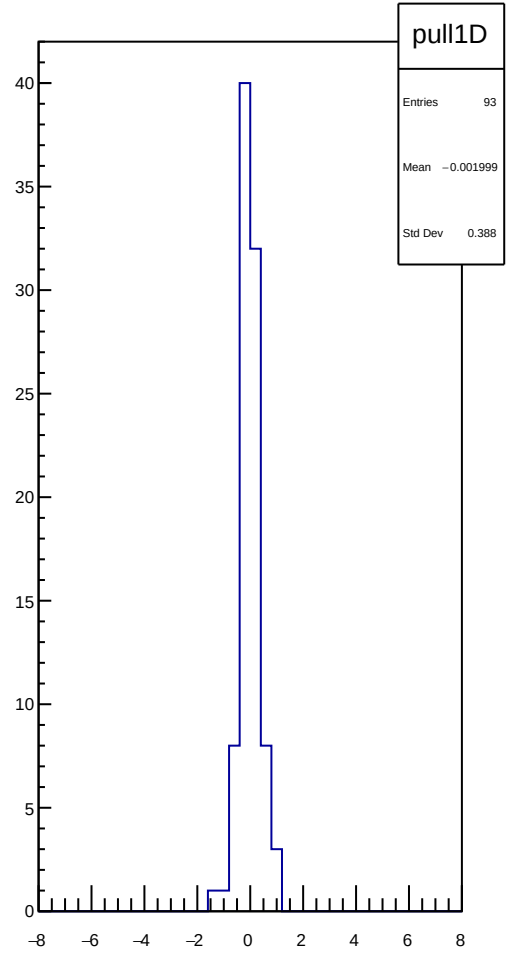

pull1D
Entries 93
Mean 0.02303
Std Dev 0.7337

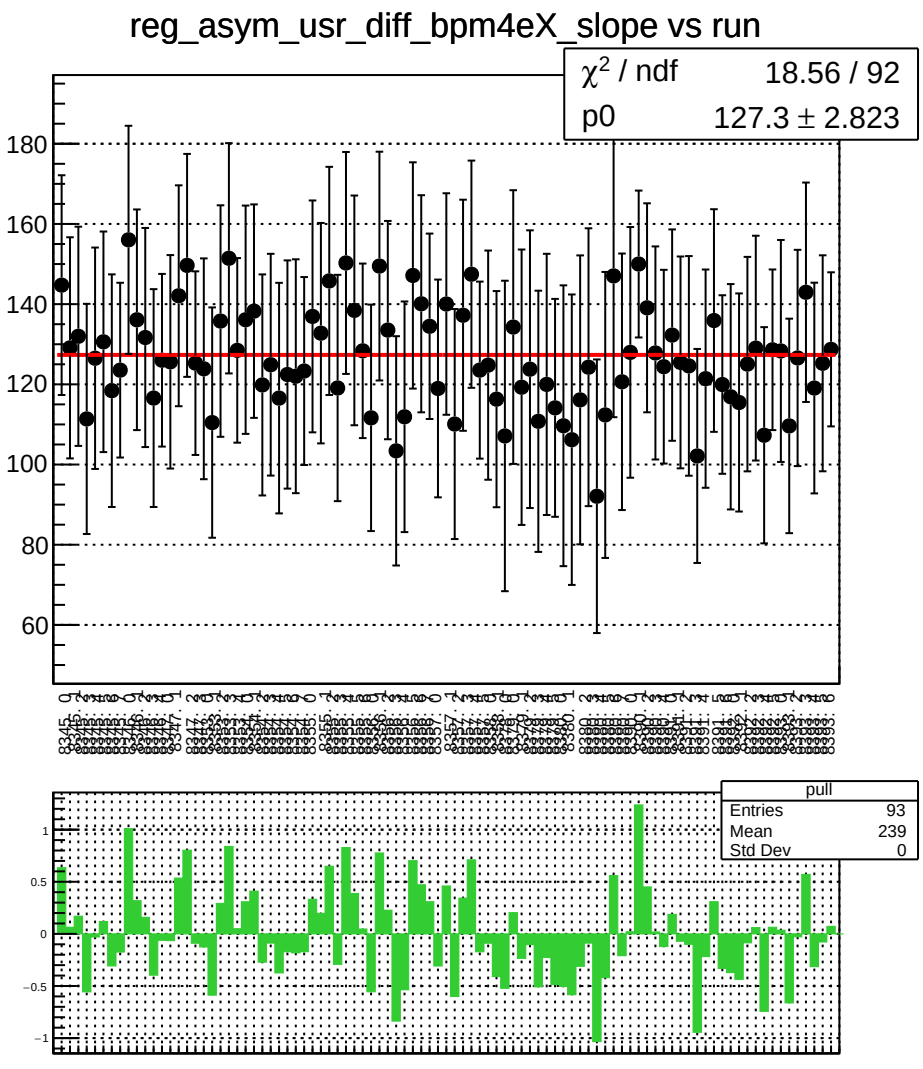

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 232.8 / 92
p0 −38.45 ± 0.1245
pull
Entries 93
Mean 370.1
Std Dev 0
pull1D
Entries 93
Mean 0.04266
Std Dev 1.582

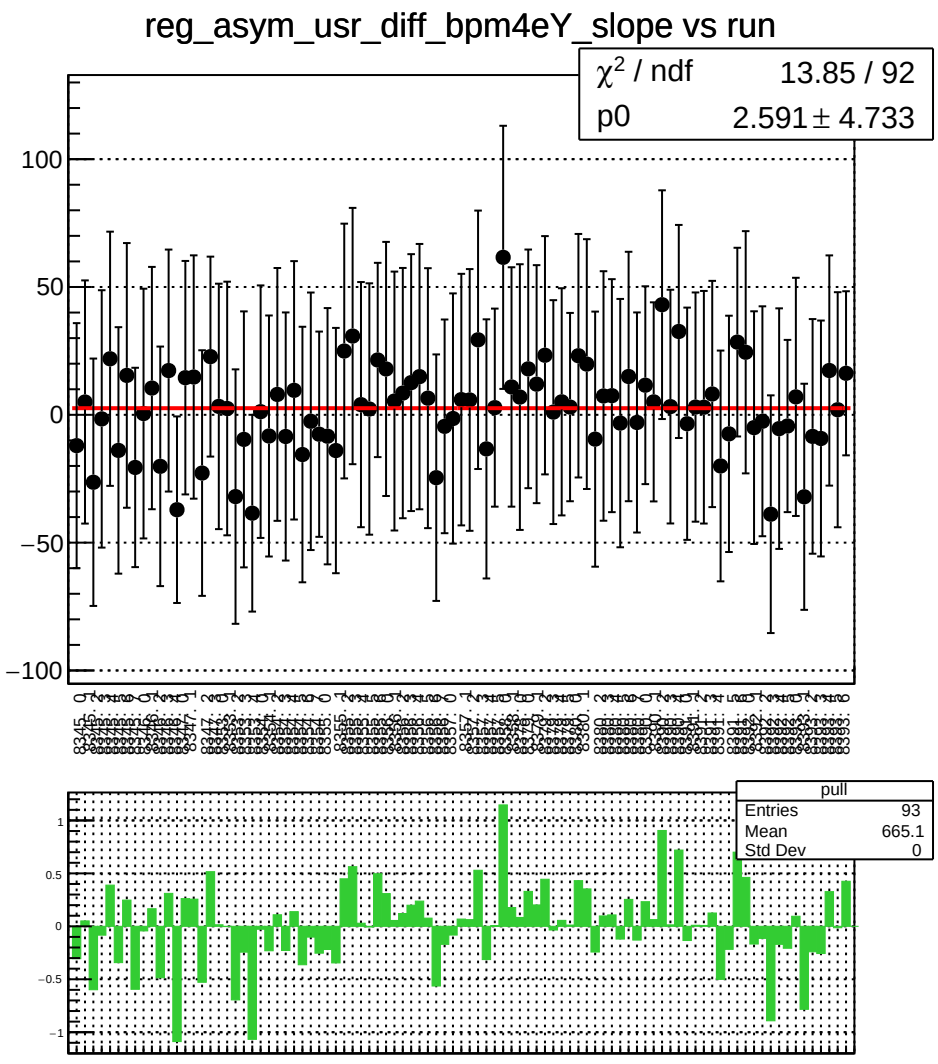

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 21.35 / 92
p0 −77.55 ± 2.568
pull
Entries 93
Mean 142.7
Std Dev 0

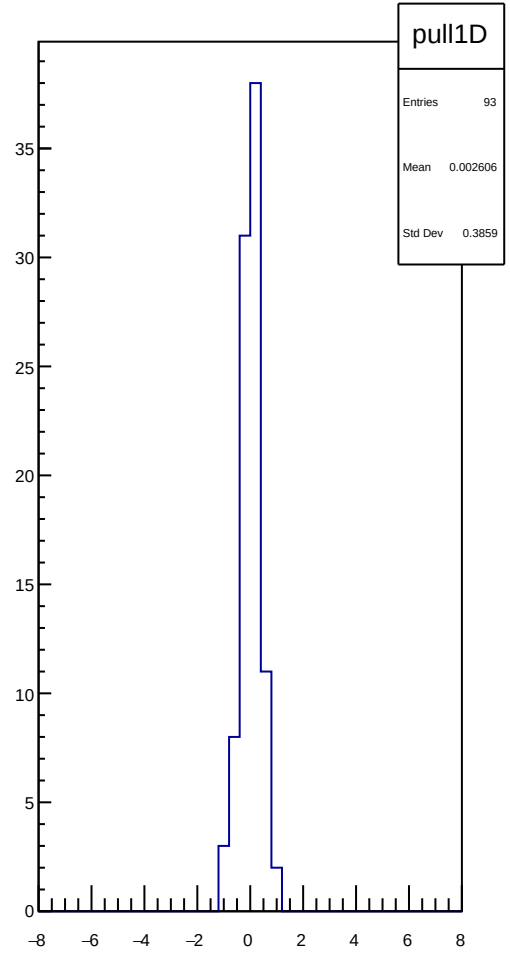

pull1D
Entries 93
Mean 0.03602
Std Dev 0.4777

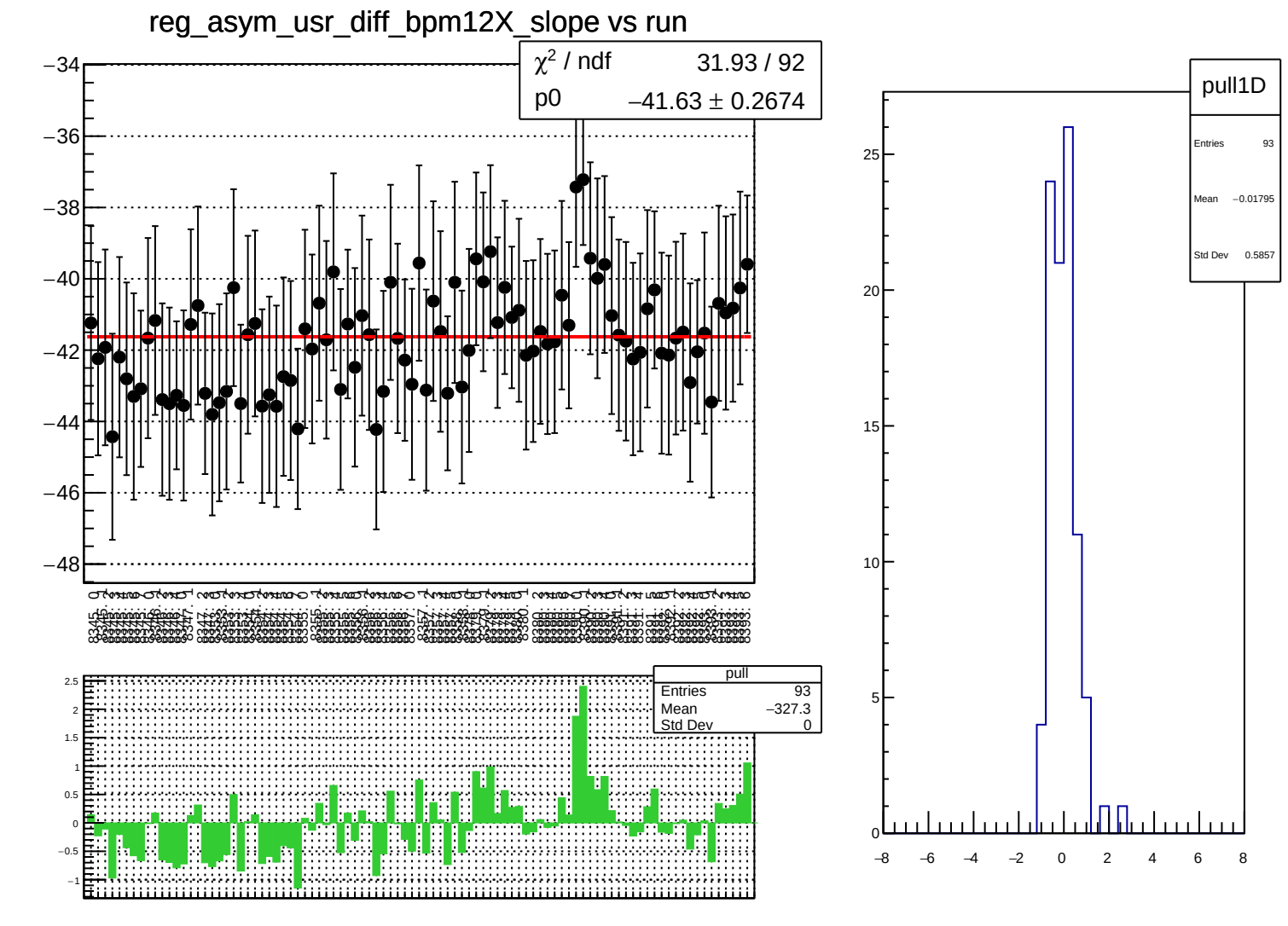

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 14 / 92
p0 14.18 ± 4.476
100
50
0
−50
−100
pull
Entries 93
Mean 773
Std Dev 0
1
0.5
0
−0.5
−1

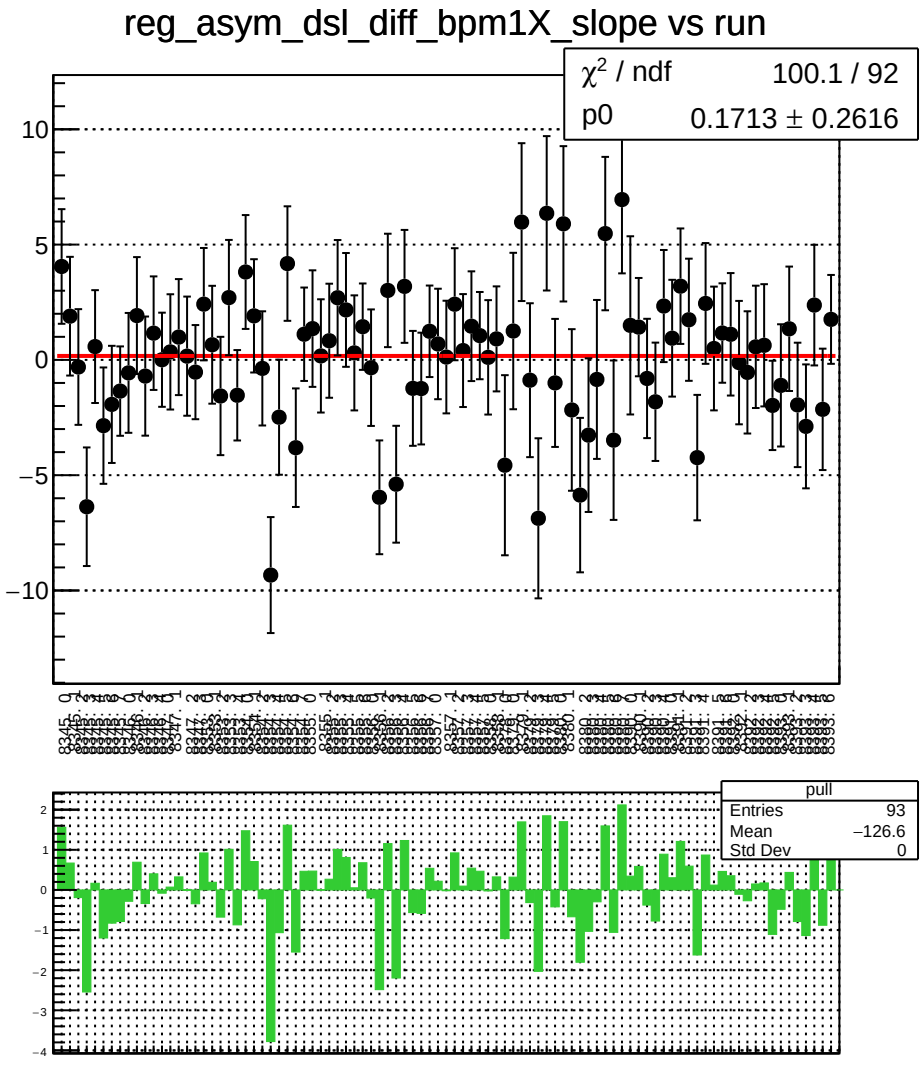

pull1D
Entries 93
Mean −0.001999
Std Dev 0.388
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

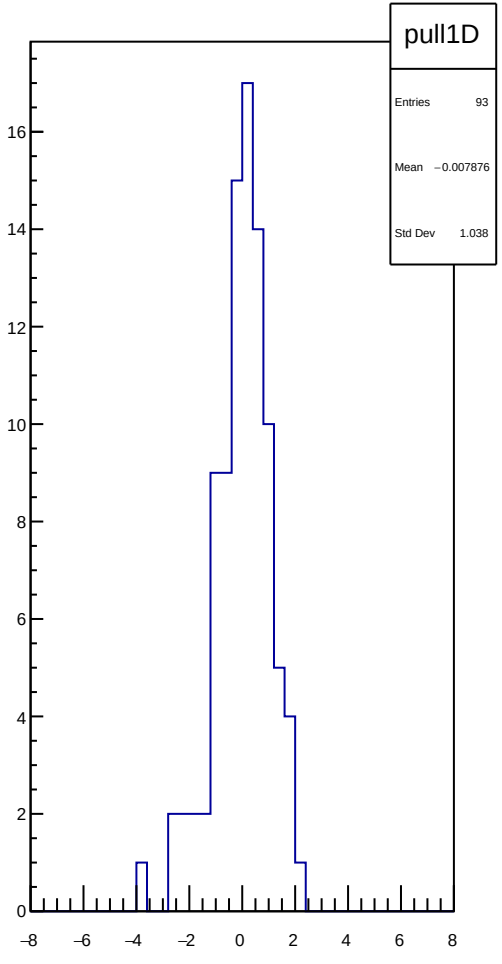

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 18.56 / 92
p0 127.3 ± 2.823
pull
Entries 93
Mean 239
Std Dev 0
pull1D
Entries 93
Mean −0.01347
Std Dev 0.4465

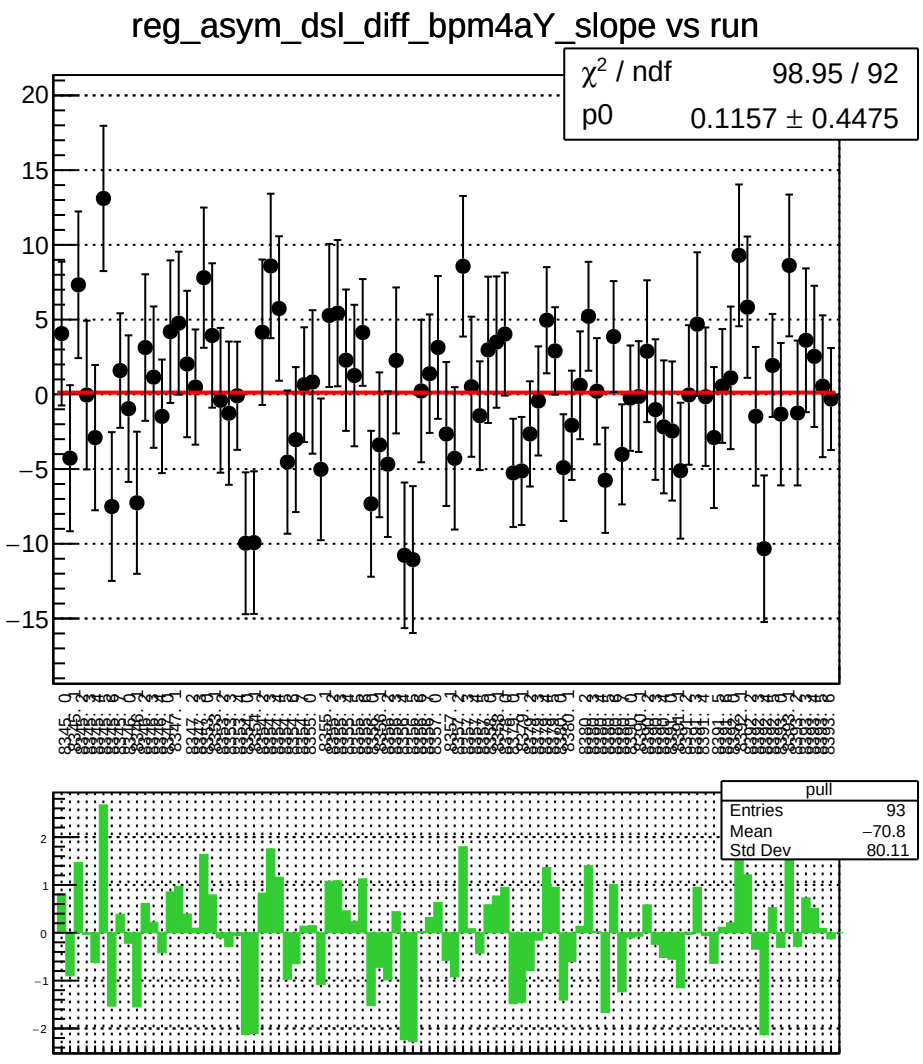

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 13.85 / 92
p0 2.591 ± 4.733
100
50
0
−50
−100
pull
Entries 93
Mean 665.1
Std Dev 0
1
0.5
0
−0.5
−1

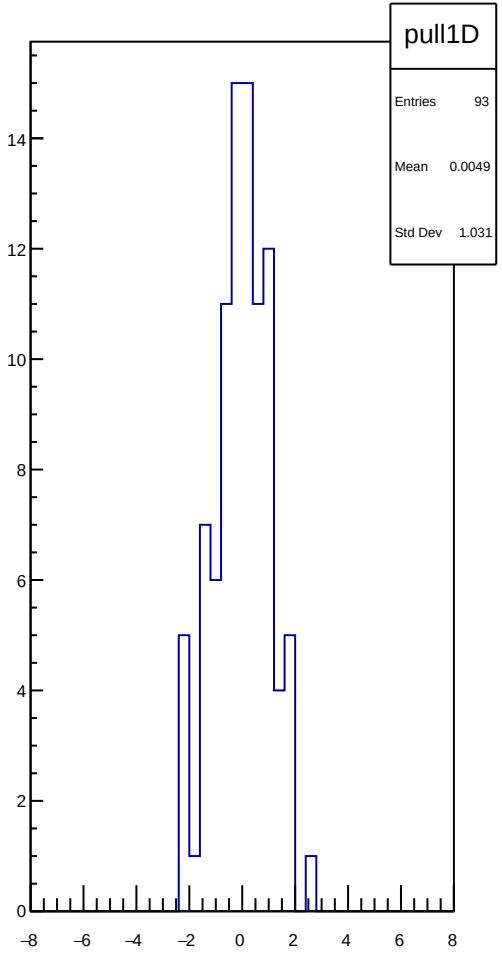

pull1D
Entries 93
Mean 0.002606
Std Dev 0.3859
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

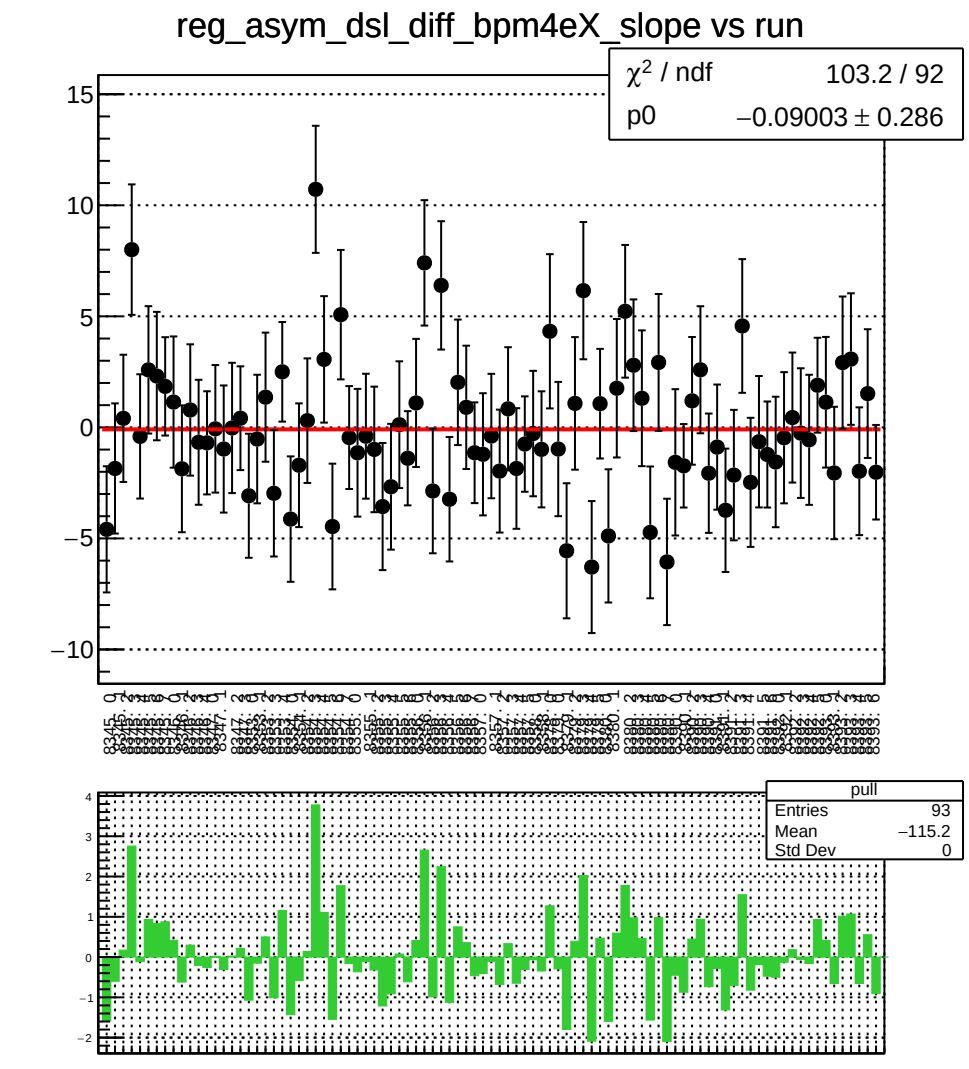

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 31.93 / 92
p0 −41.63 ± 0.2674
pull
Entries 93
Mean −327.3
Std Dev 0
pull1D
Entries 93
Mean −0.01795
Std Dev 0.5857

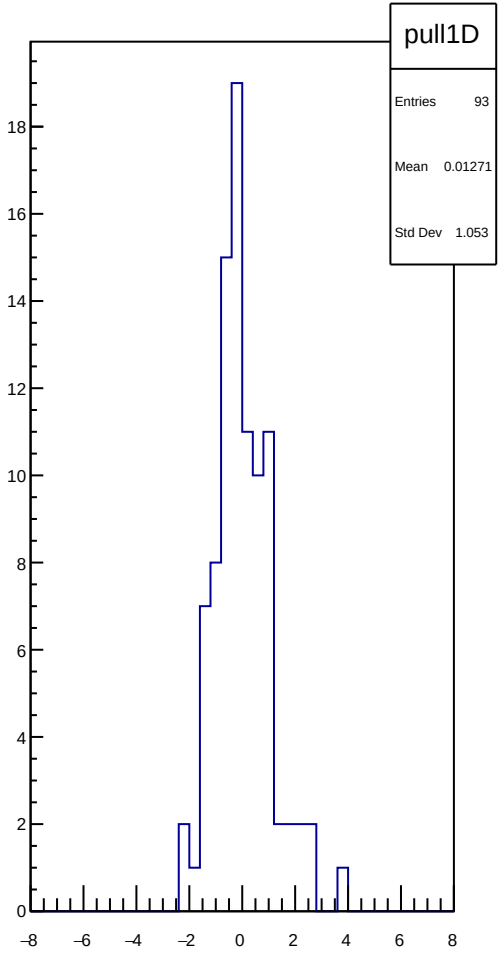

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 100.1 / 92
p0 0.1713 ± 0.2616
pull
Entries 93
Mean −126.6
Std Dev 0

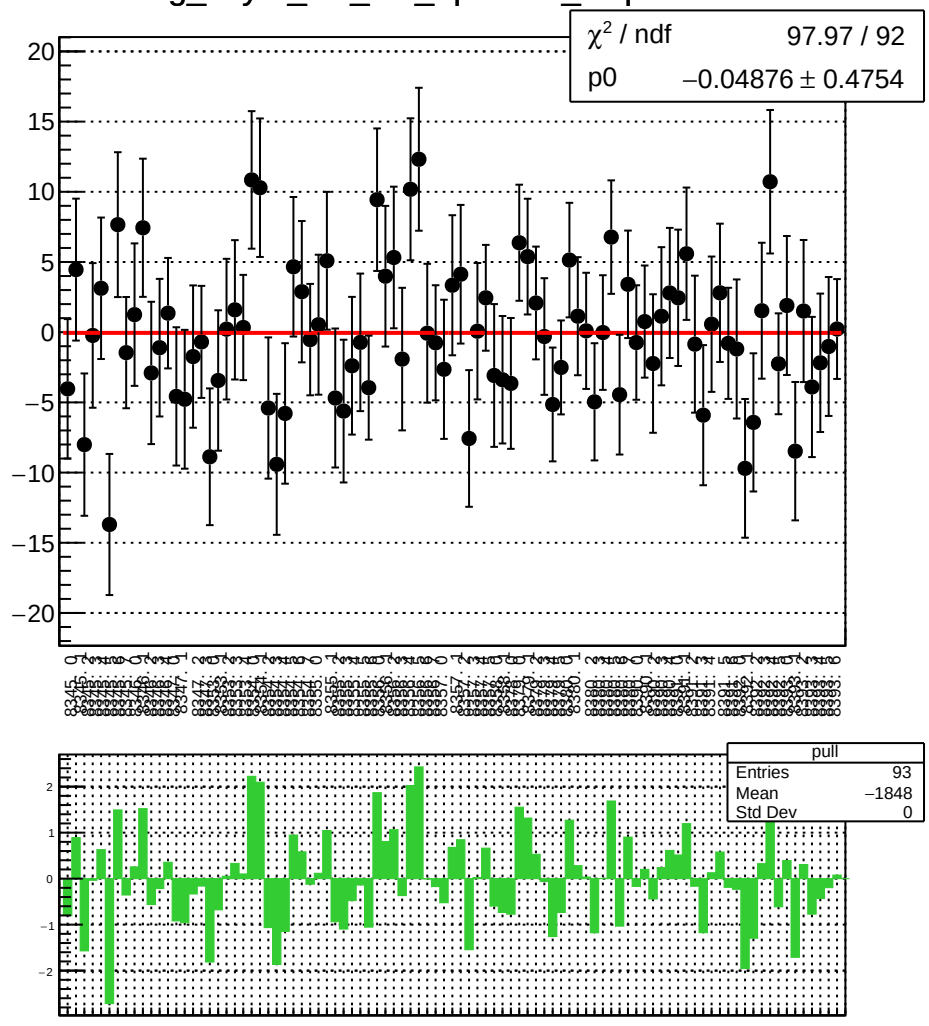

pull1D
Entries 93
Mean −0.007876
Std Dev 1.038

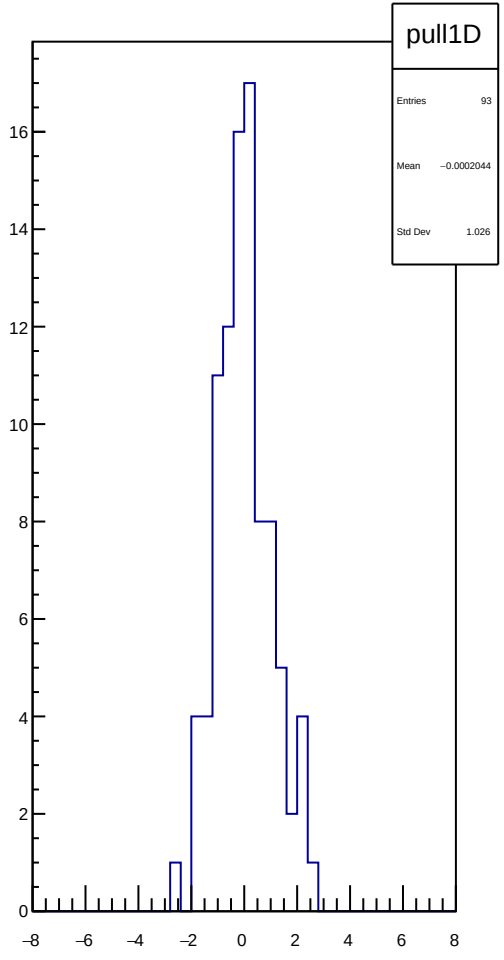

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 98.95 / 92
p0 0.1157 ± 0.4475
pull
Entries 93
Mean −70.8
Std Dev 80.11

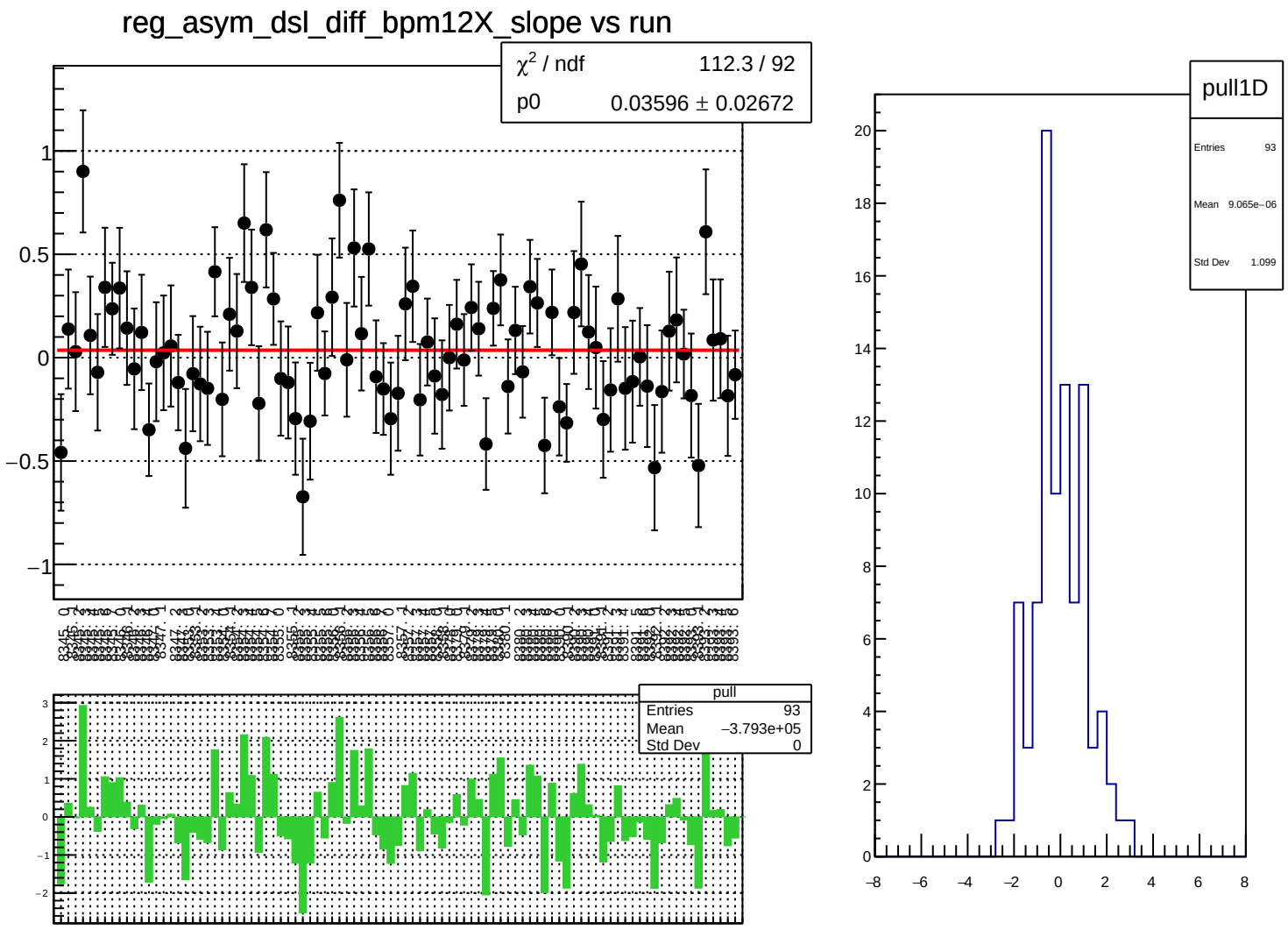

pull1D
Entries 93
Mean 0.0049
Std Dev 1.031

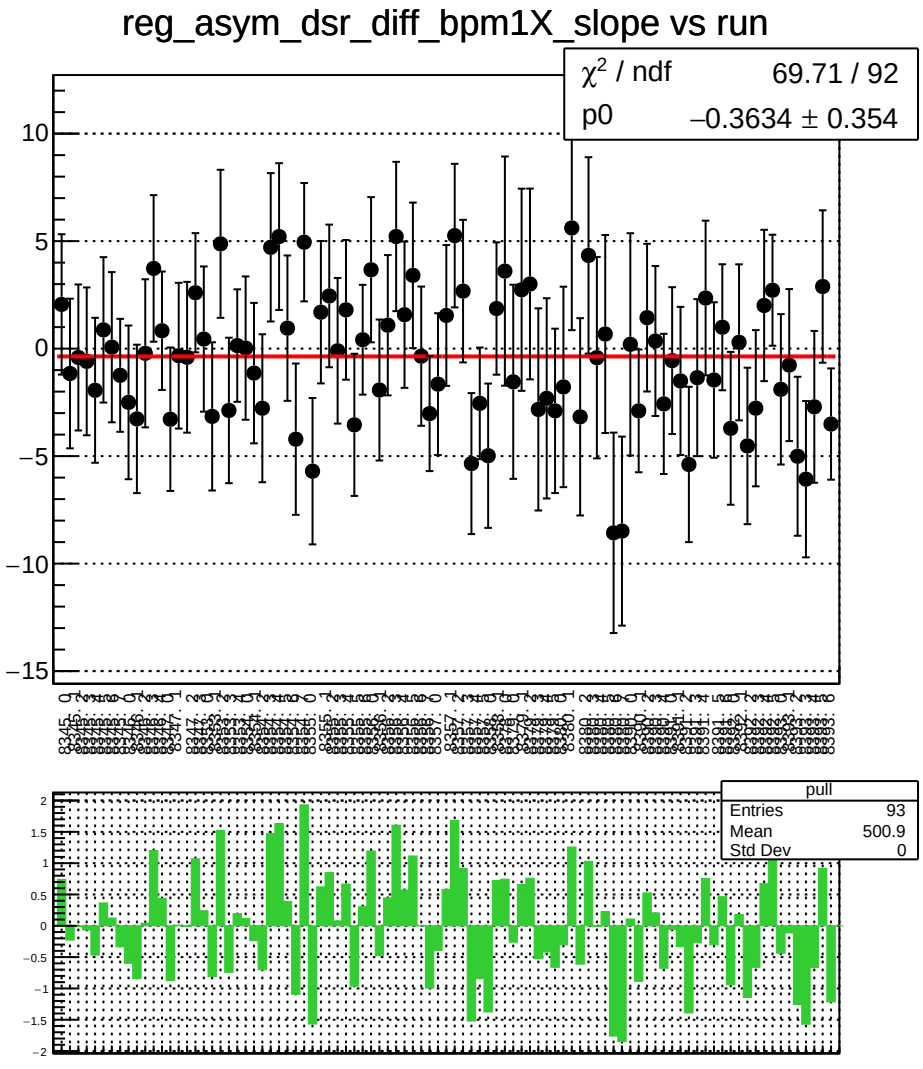

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 103.2 / 92
p0 −0.09003 ± 0.286
pull
Entries 93
Mean −115.2
Std Dev 0

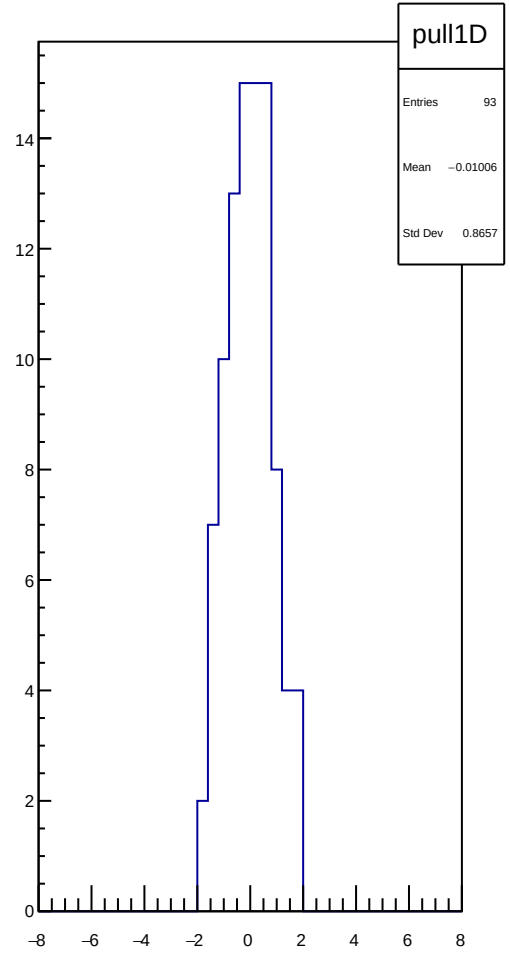

pull1D
Entries 93
Mean 0.01271
Std Dev 1.053

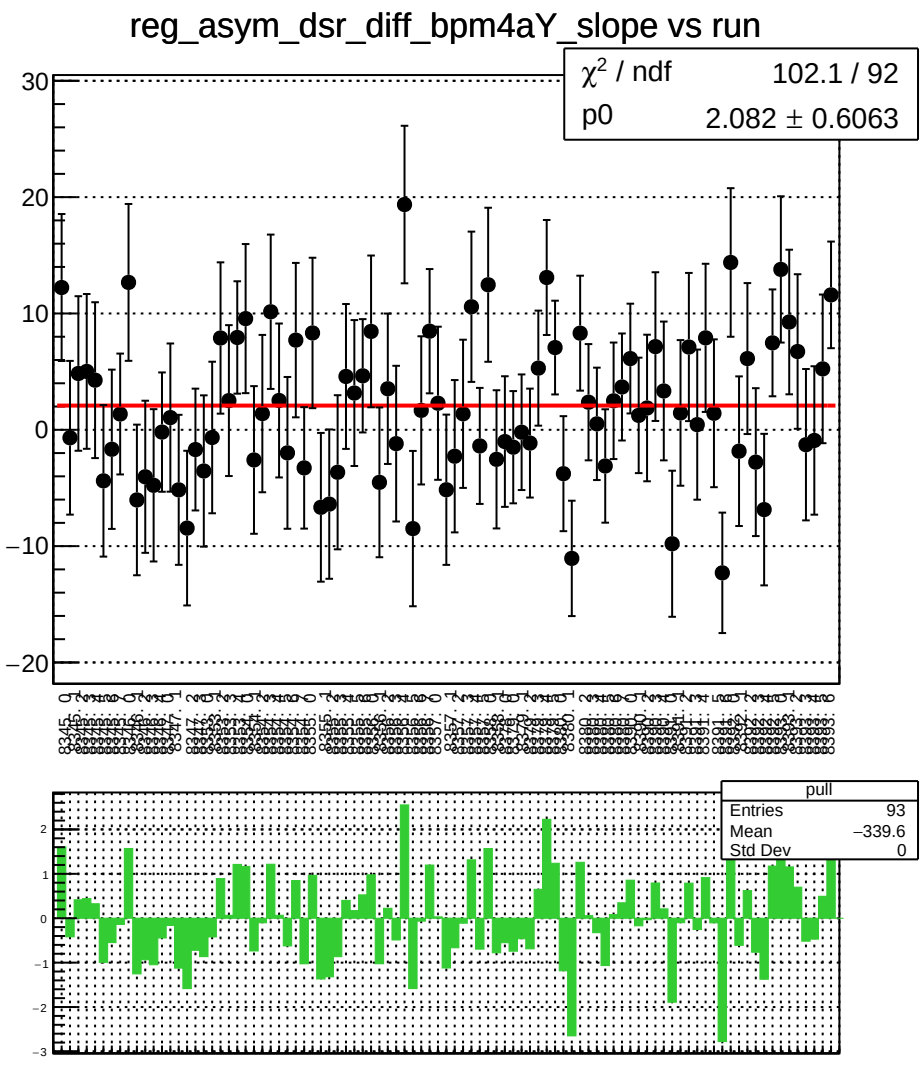

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 97.97 / 92
p0 −0.04876 ± 0.4754
pull
Entries 93
Mean −1848
Std Dev 0

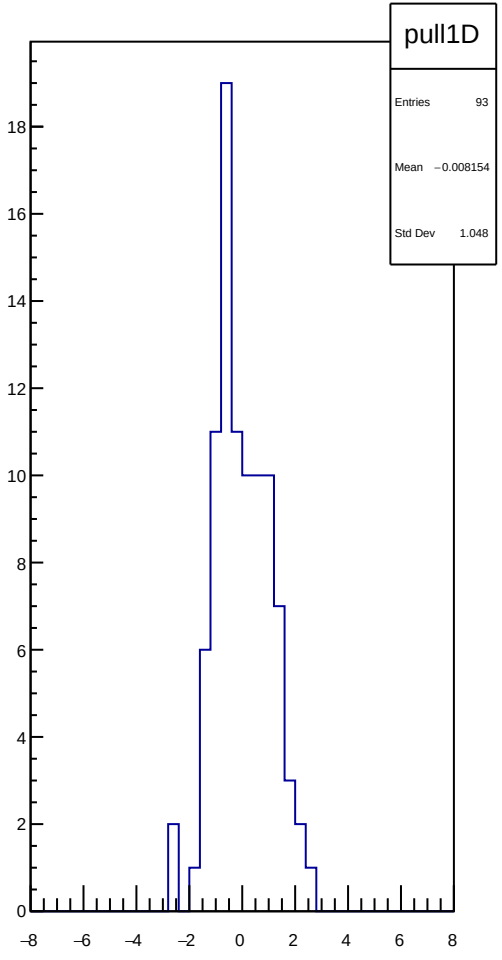

pull1D
Entries 93
Mean −0.0002044
Std Dev 1.026

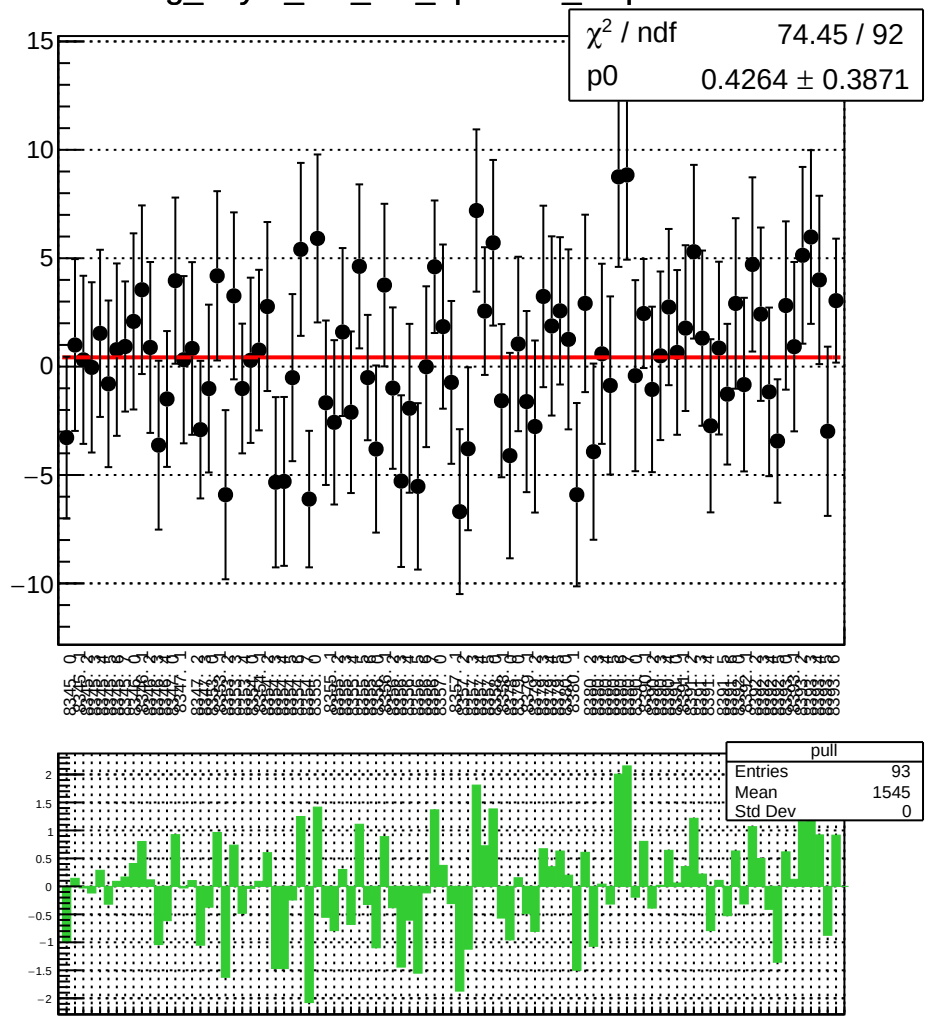

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 112.3 / 92
p0 0.03596 ± 0.02672
pull
Entries 93
Mean −3.793e+05
Std Dev 0
pull1D
Entries 93
Mean 9.065e−06
Std Dev 1.099

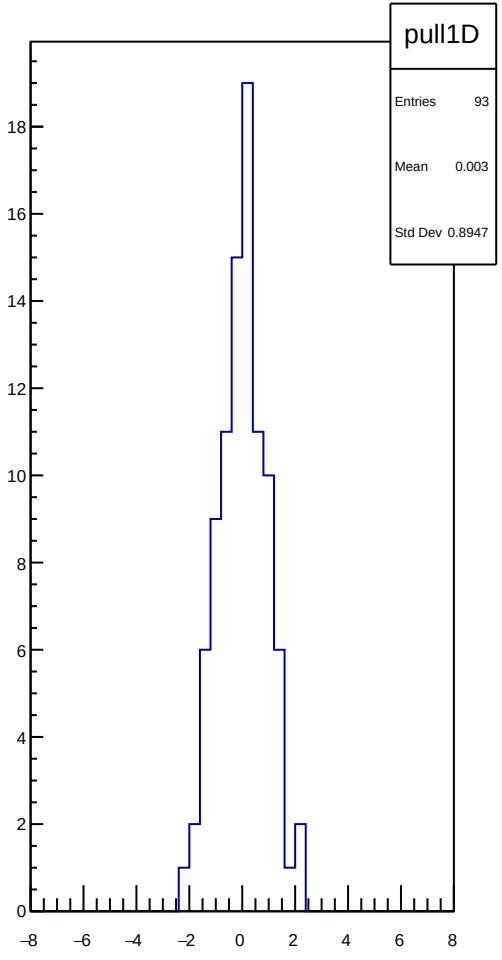

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 69.71 / 92
p0 −0.3634 ± 0.354
pull
Entries 93
Mean 500.9
Std Dev 0

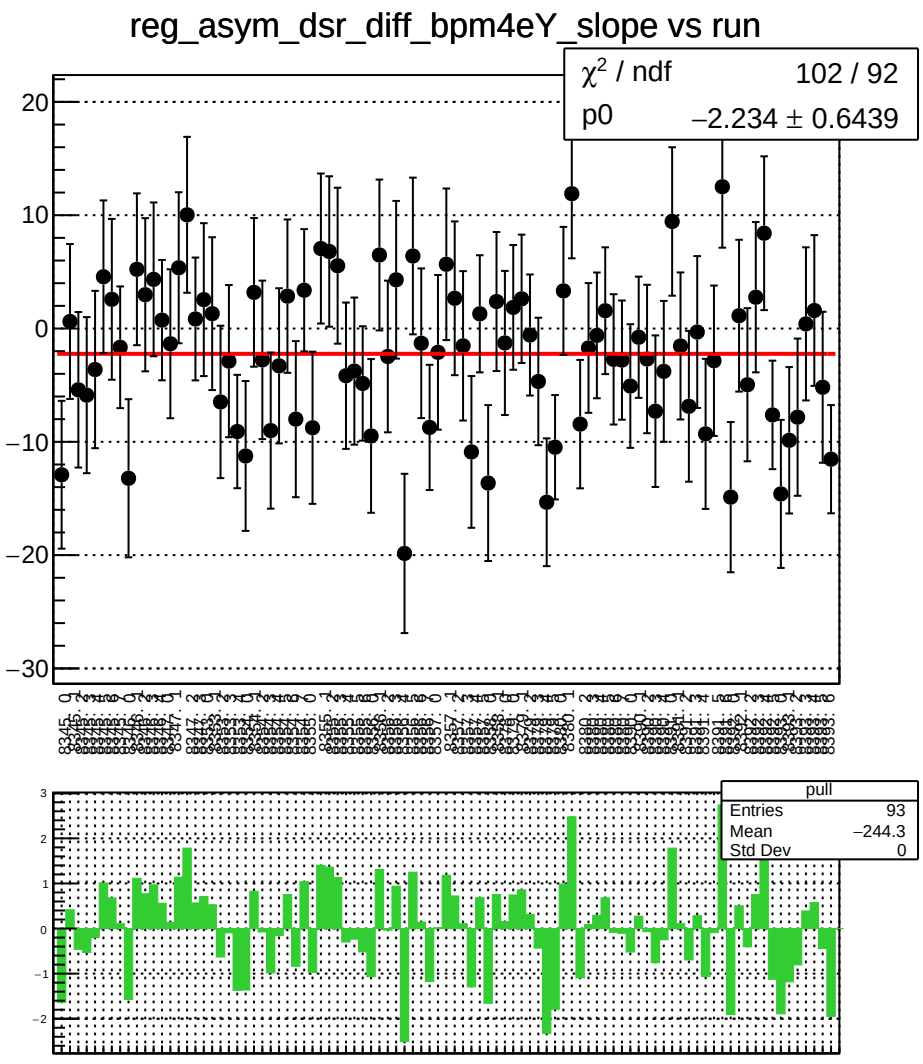

pull1D
Entries 93
Mean −0.01006
Std Dev 0.8657

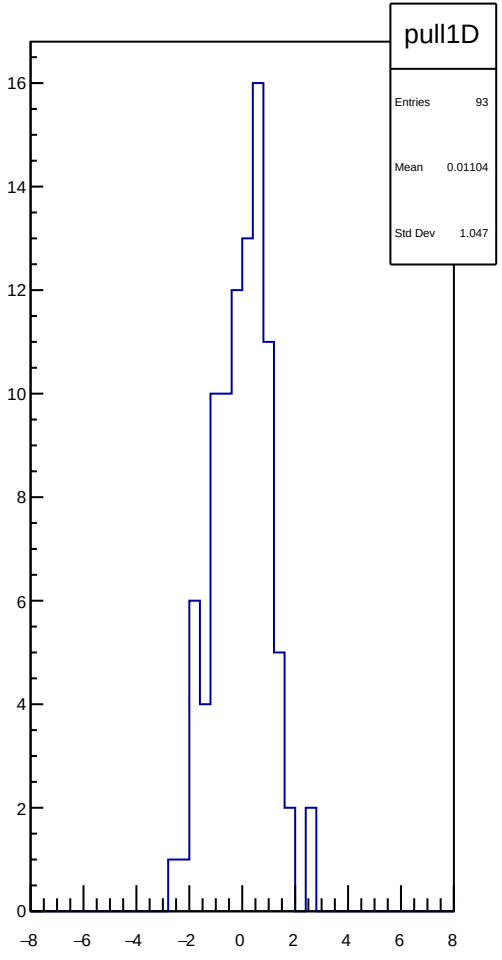

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 102.1 / 92
p0 2.082 ± 0.6063
pull
Entries 93
Mean −339.6
Std Dev 0

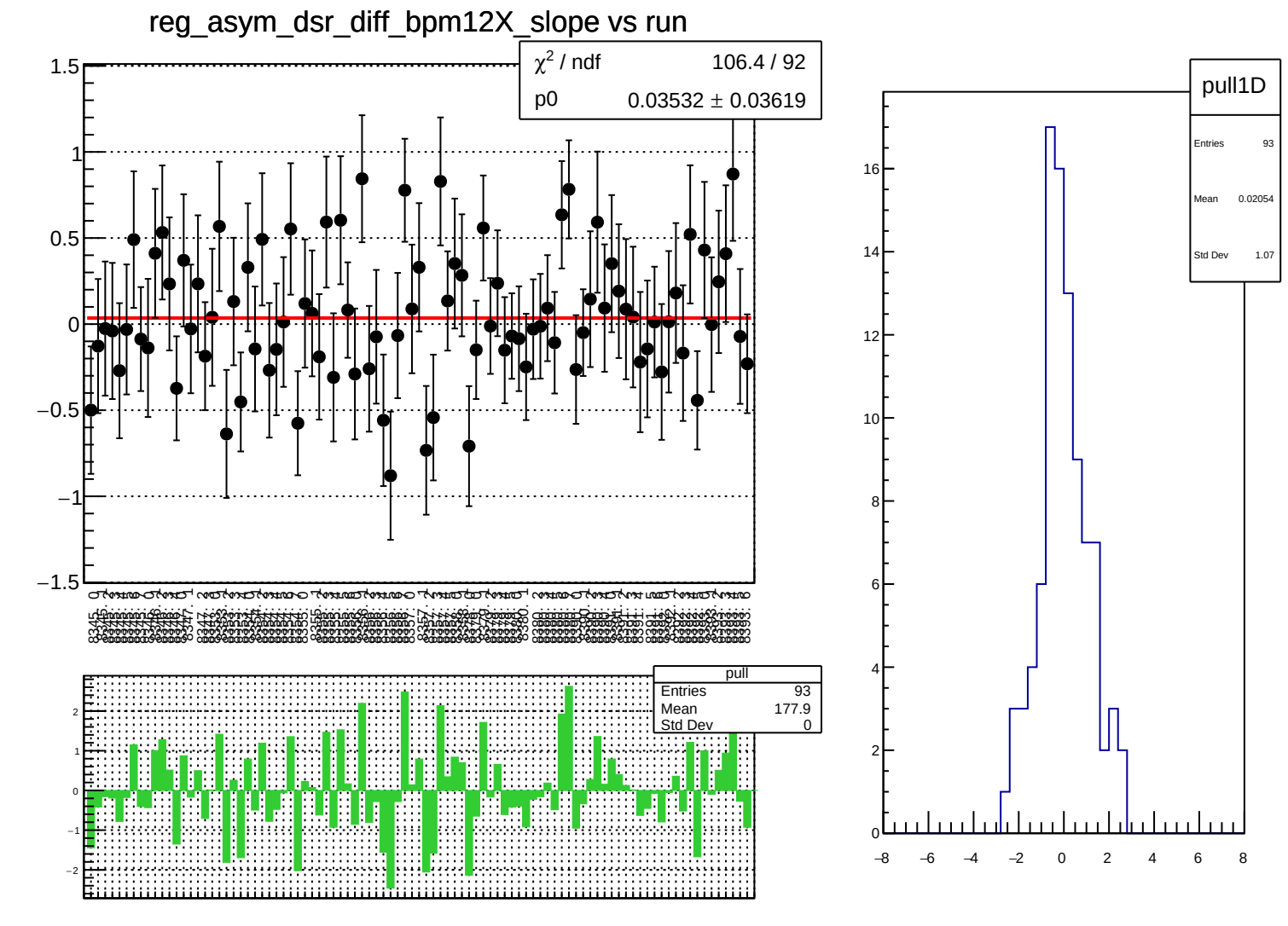

pull1D
Entries 93
Mean −0.008154
Std Dev 1.048

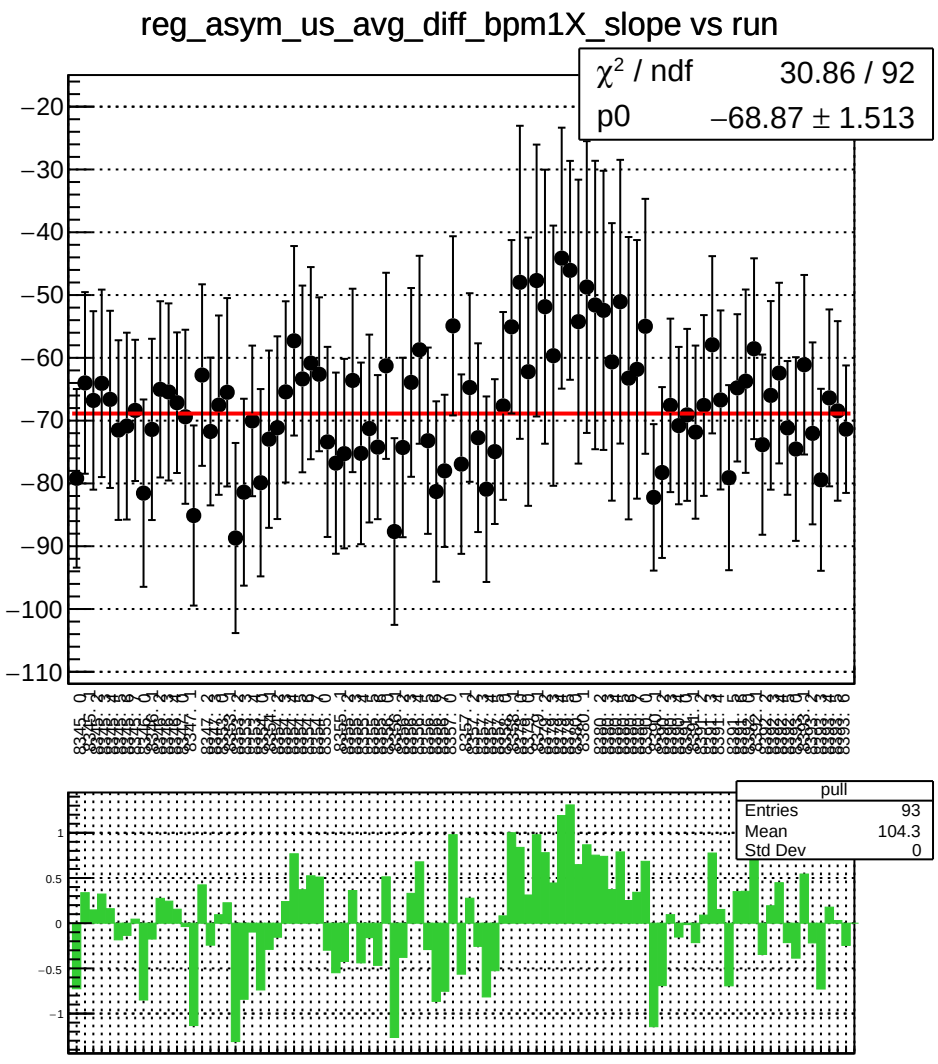

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 74.45 / 92
p0 0.4264 ± 0.3871
pull
Entries 93
Mean 1545
Std Dev 0

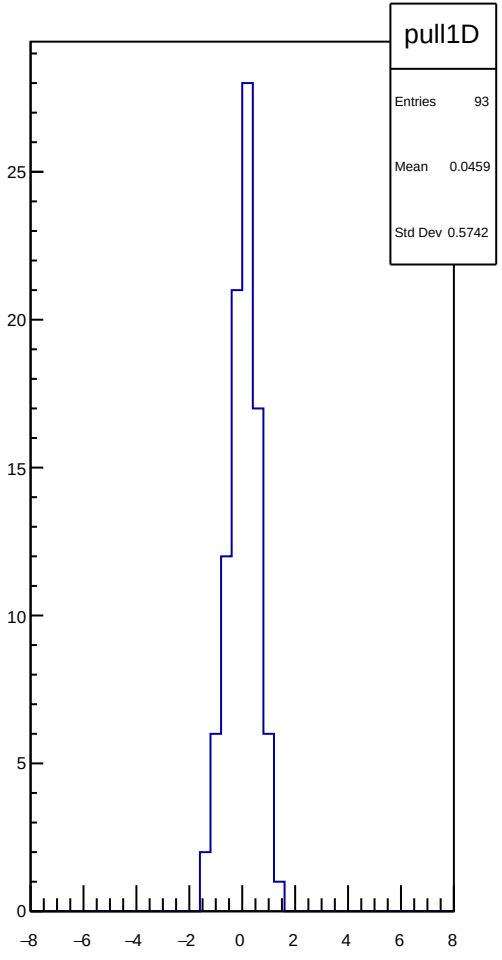

pull1D
Entries 93
Mean 0.003
Std Dev 0.8947

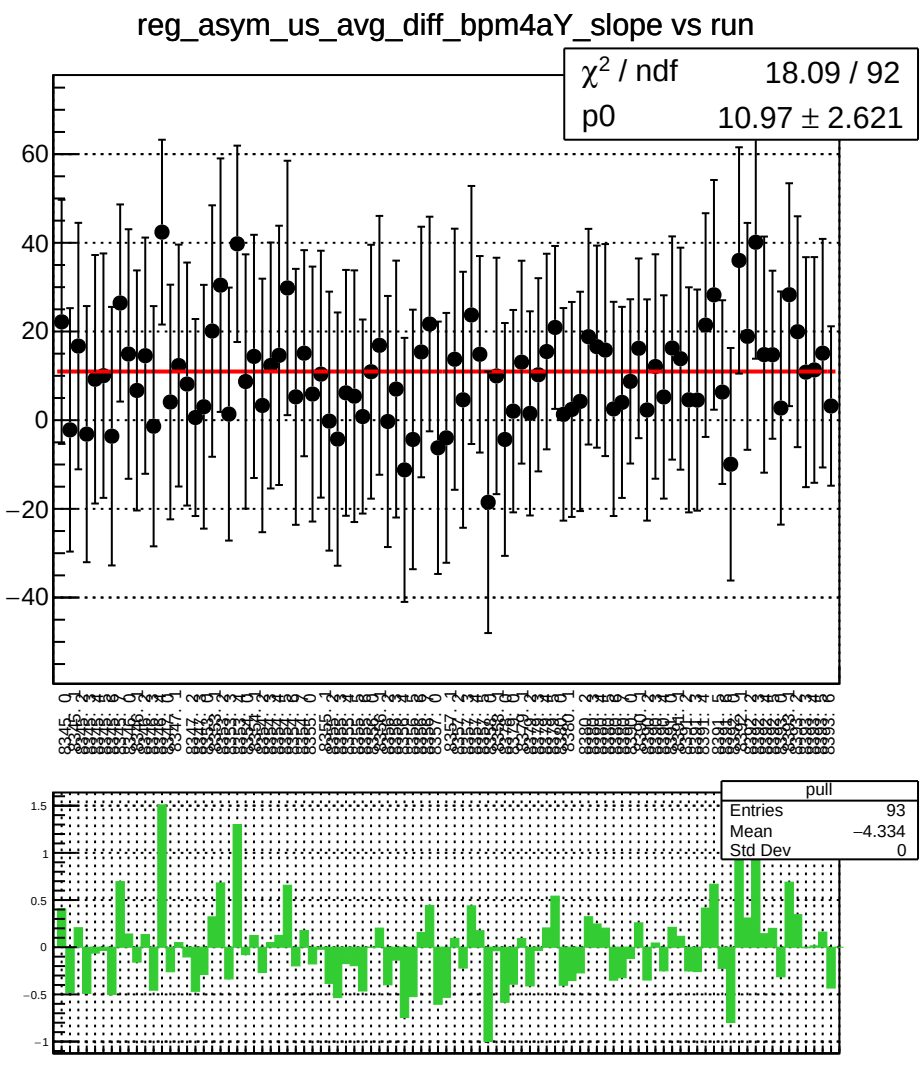

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 102 / 92
p0 −2.234 ± 0.6439
pull
Entries 93
Mean −244.3
Std Dev 0

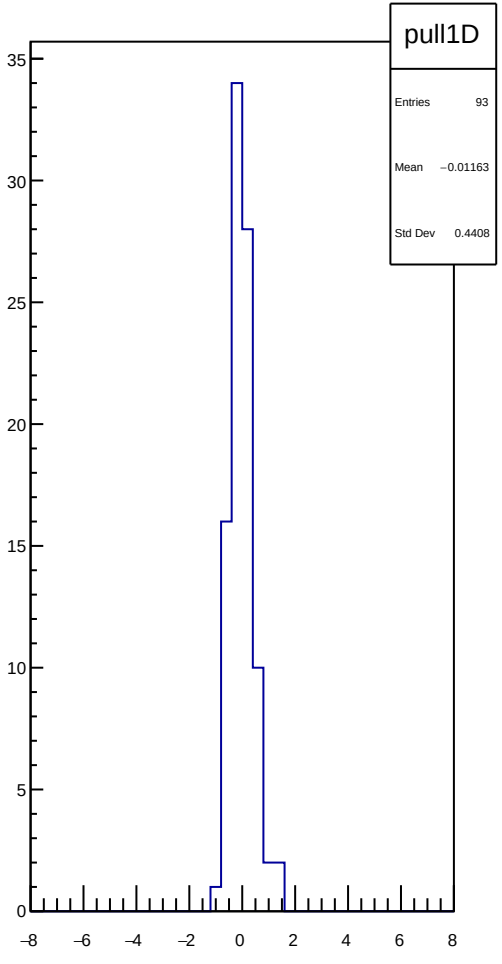

pull1D
Entries 93
Mean 0.01104
Std Dev 1.047

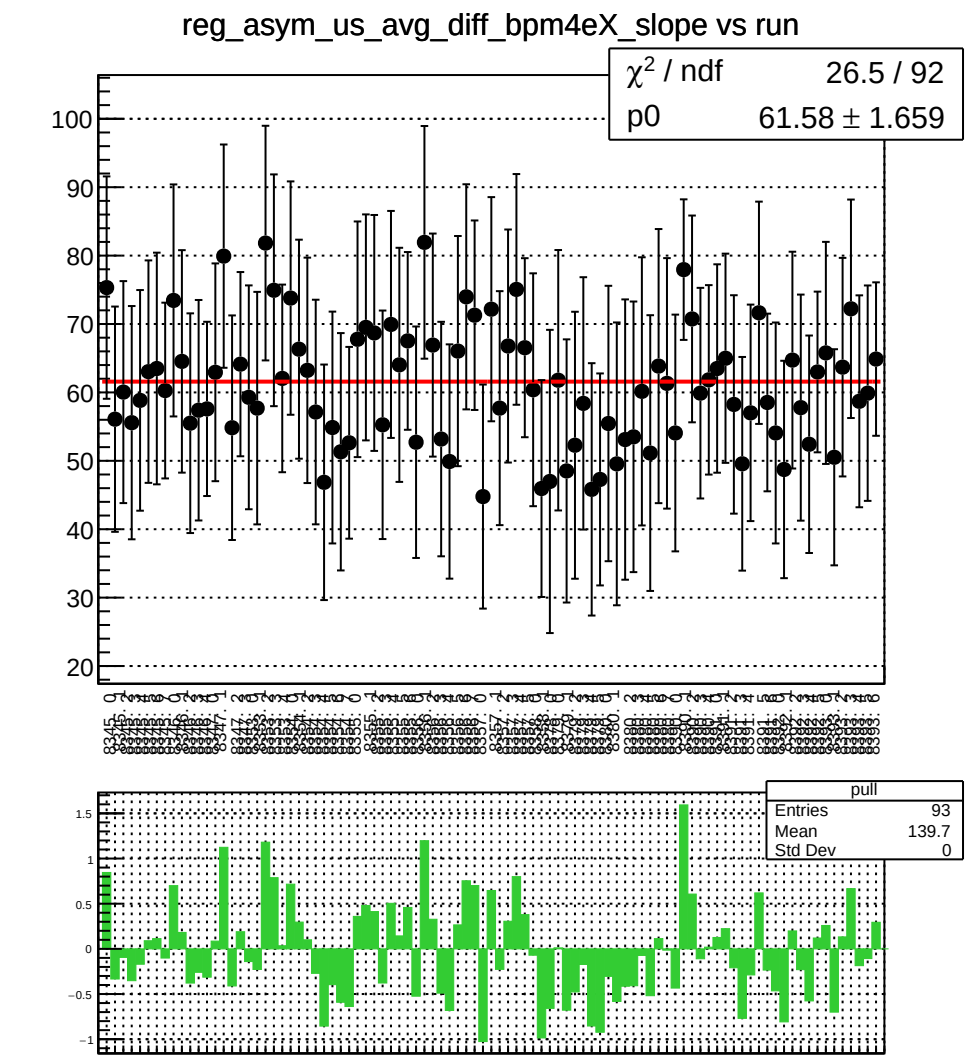

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 106.4 / 92
p0 0.03532 ± 0.03619
pull
Entries 93
Mean 177.9
Std Dev 0
pull1D
Entries 93
Mean 0.02054
Std Dev 1.07

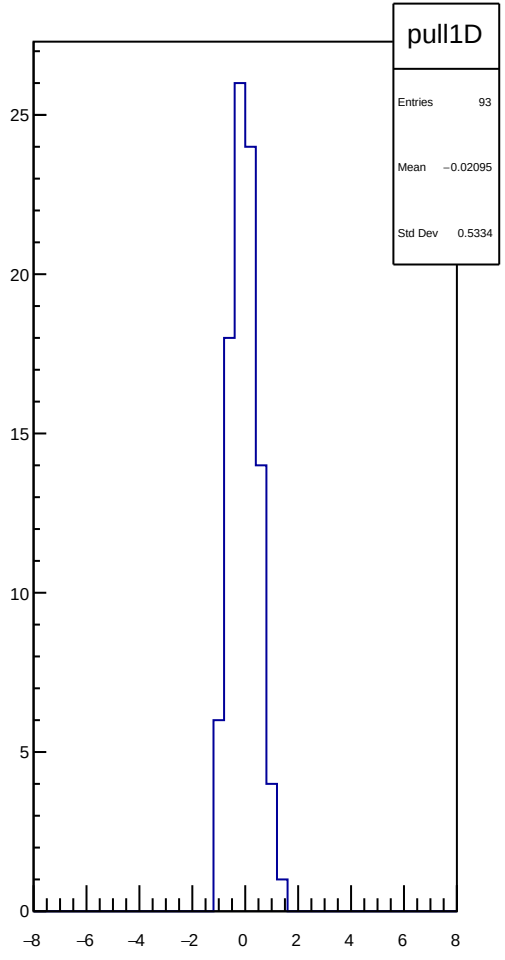

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 30.86 / 92
p0 −68.87 ± 1.513
pull
Entries 93
Mean 104.3
Std Dev 0

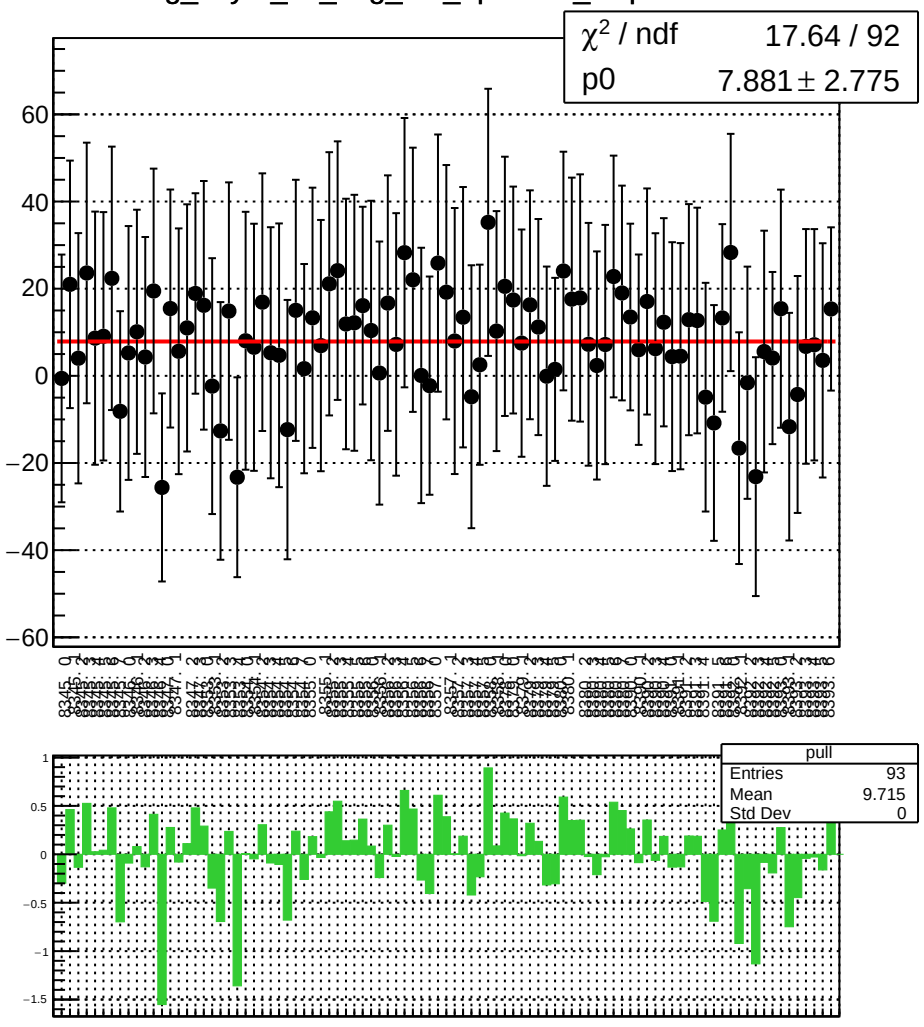

pull1D
Entries 93
Mean 0.0459
Std Dev 0.5742

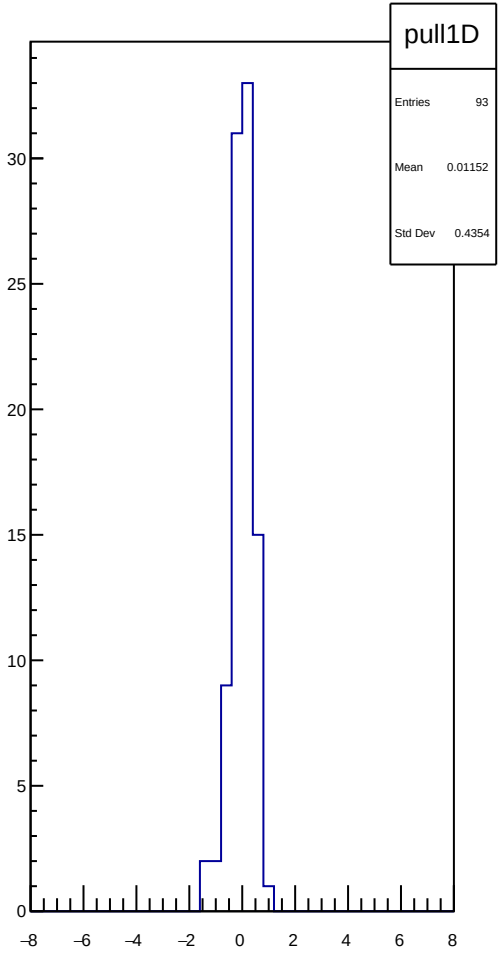

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 18.09 / 92
p0 10.97 ± 2.621
pull
Entries 93
Mean −4.334
Std Dev 0

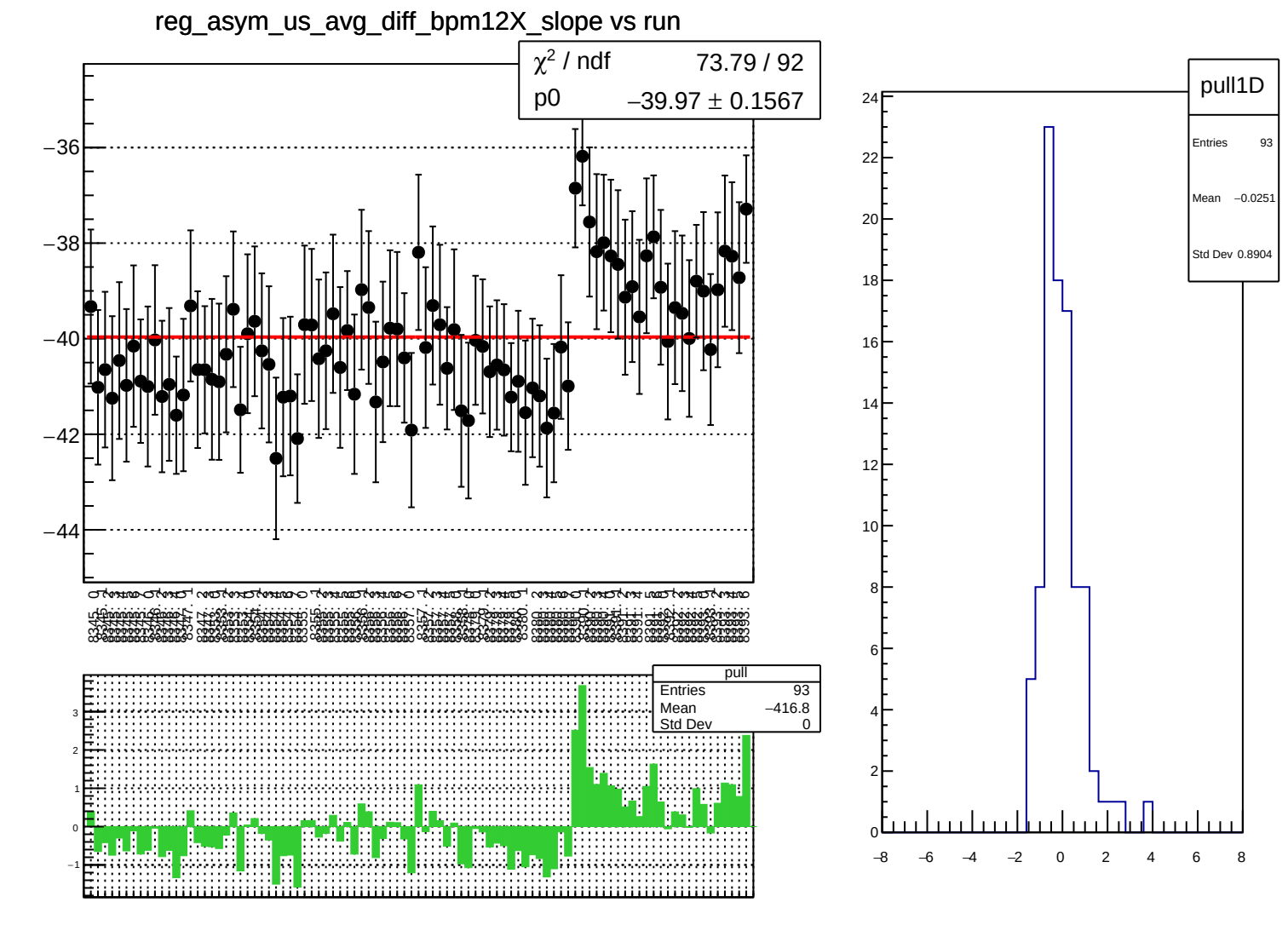

pull1D
Entries 93
Mean −0.01163
Std Dev 0.4408

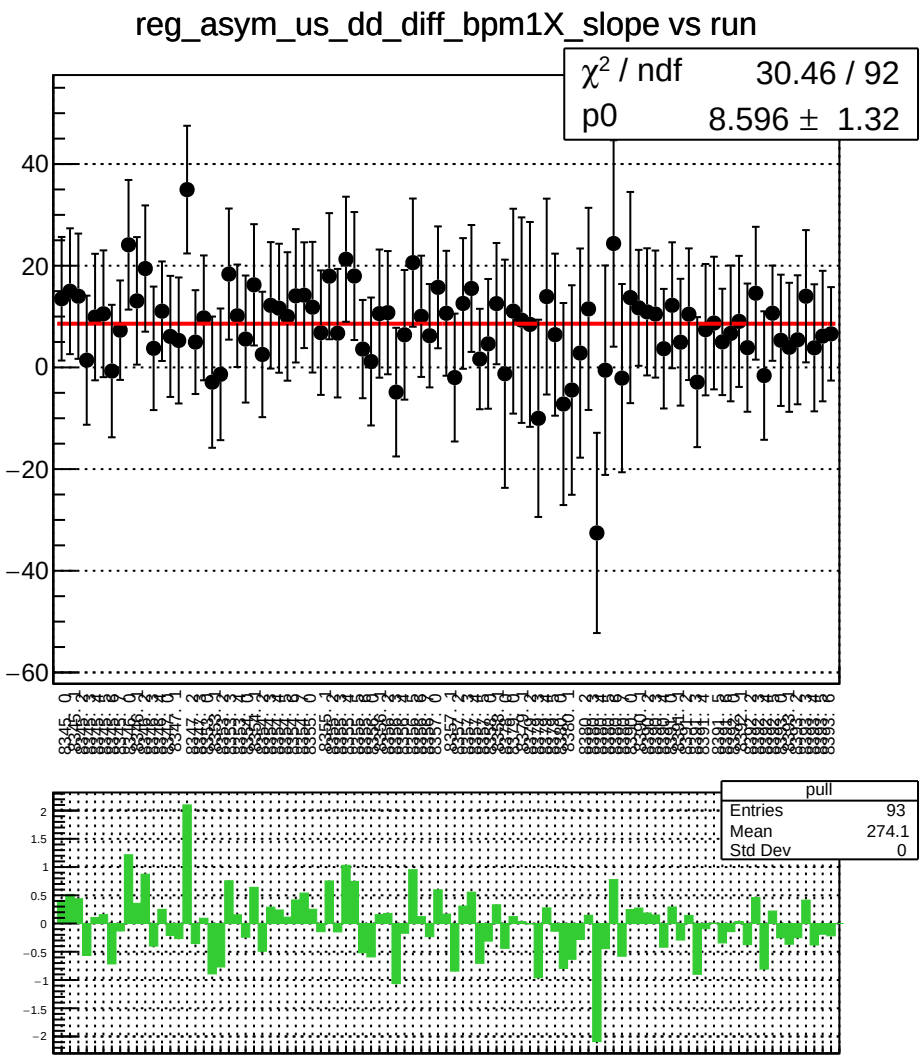

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 26.5 / 92
p0 61.58 ± 1.659
pull
Entries 93
Mean 139.7
Std Dev 0

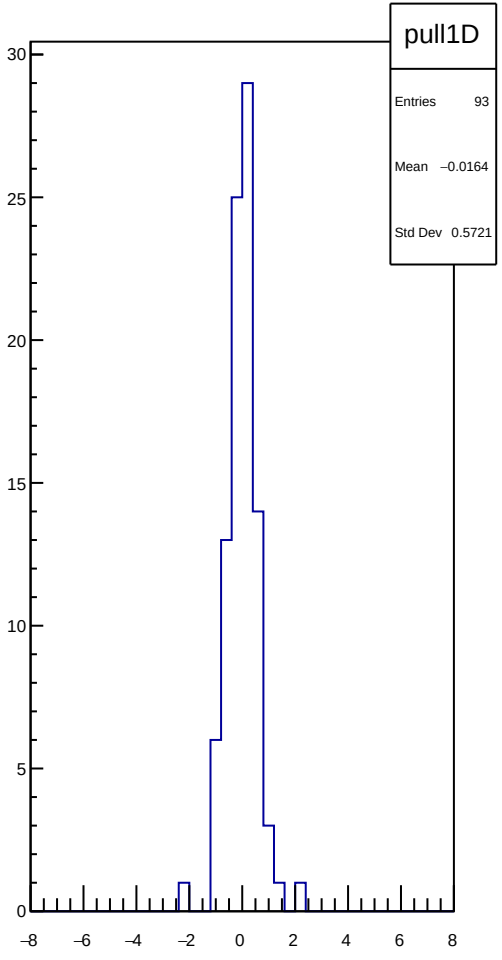

pull1D
Entries 93
Mean −0.02095
Std Dev 0.5334

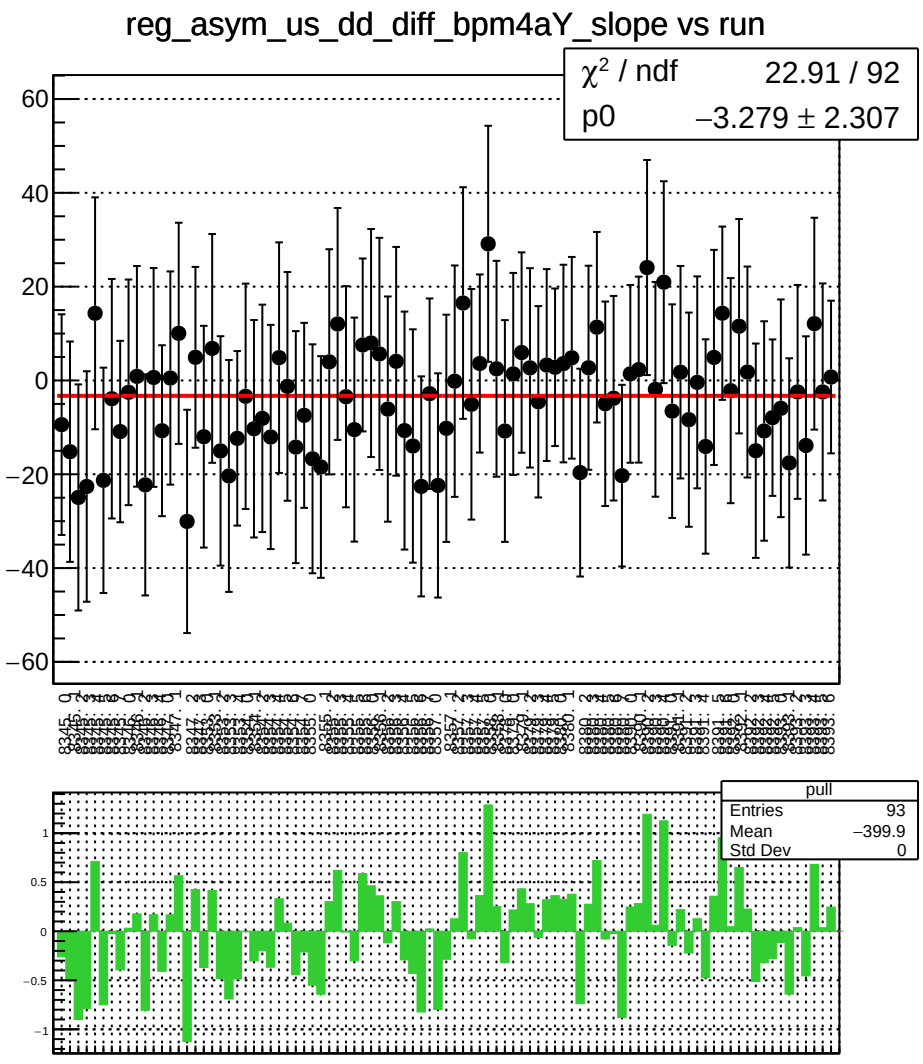

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 17.64 / 92
p0 7.881 ± 2.775
pull
Entries 93
Mean 9.715
Std Dev 0

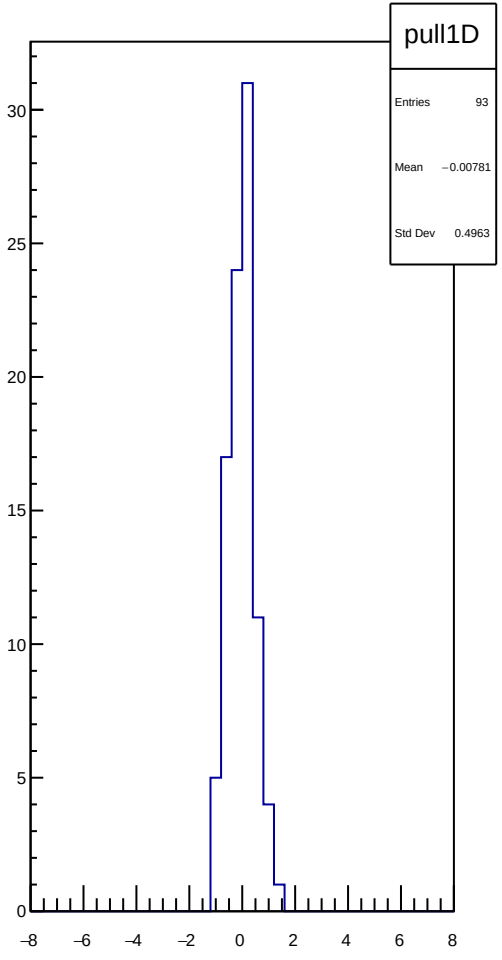

pull1D
Entries 93
Mean 0.01152
Std Dev 0.4354

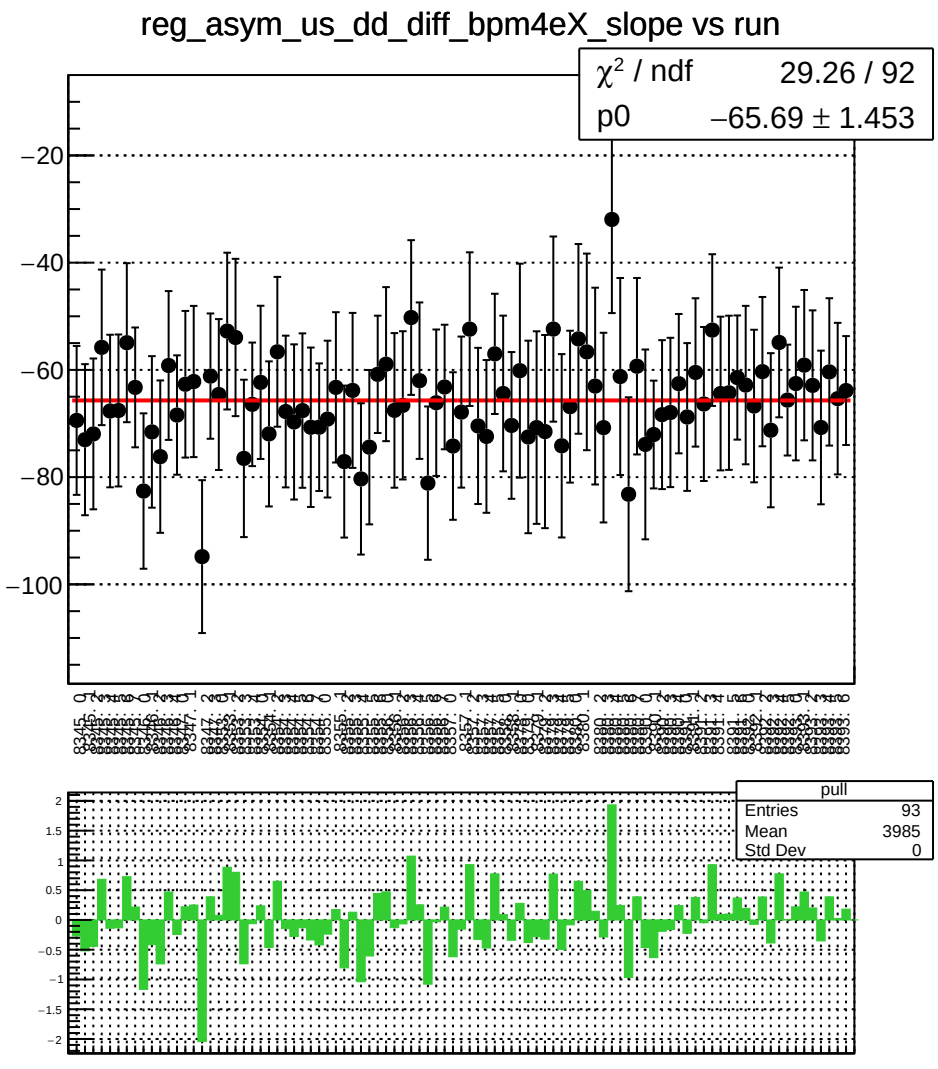

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 73.79 / 92
p0 −39.97 ± 0.1567
−36
−38
−40
−42
−44
pull
Entries 93
Mean −416.8
Std Dev 0
3
2
1
0
−1
pull1D
Entries 93
Mean −0.0251
Std Dev 0.8904
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

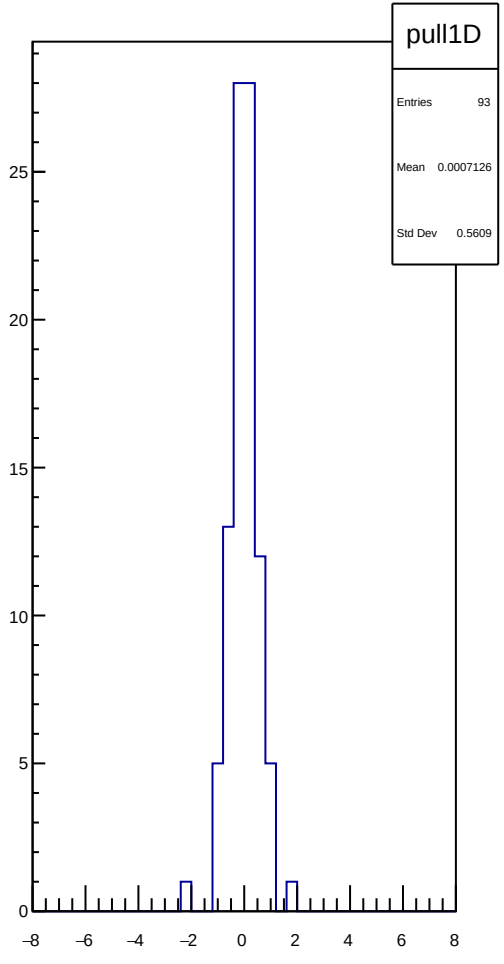

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 30.46 / 92
p0 8.596 ± 1.32
pull
Entries 93
Mean 274.1
Std Dev 0

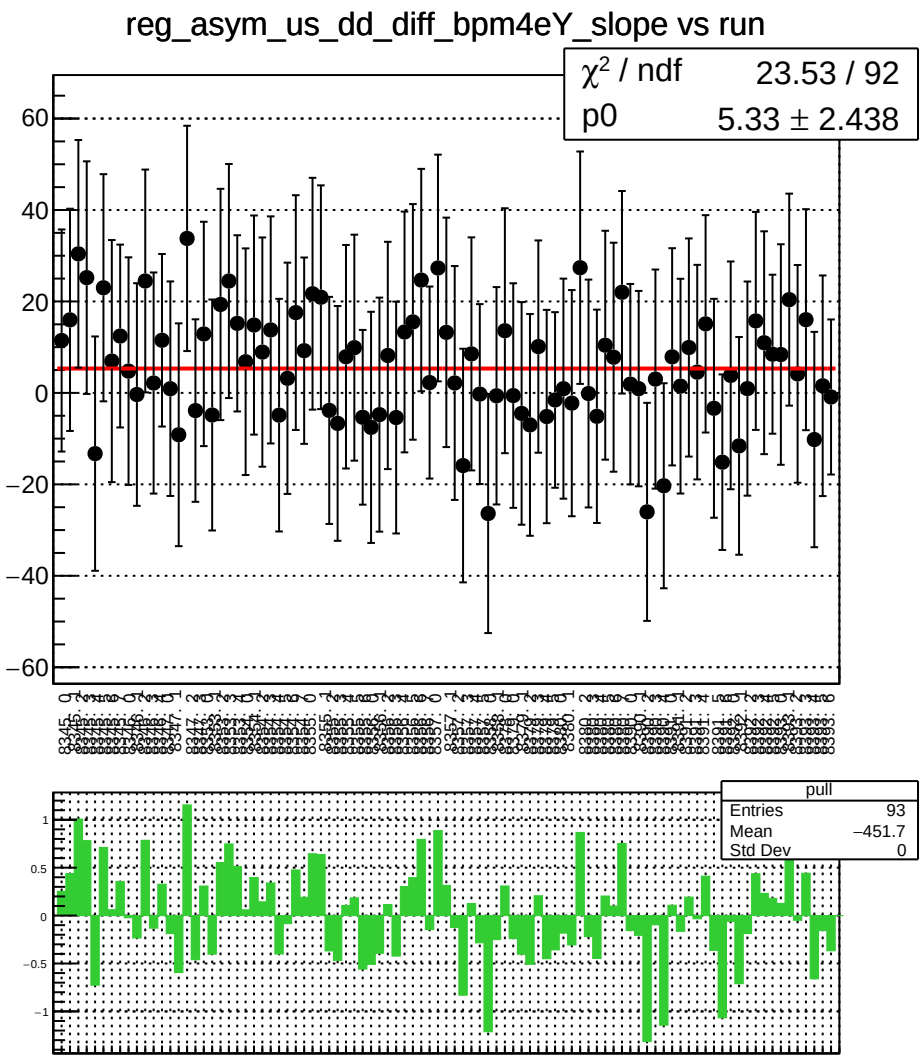

pull1D
Entries 93
Mean −0.0164
Std Dev 0.5721

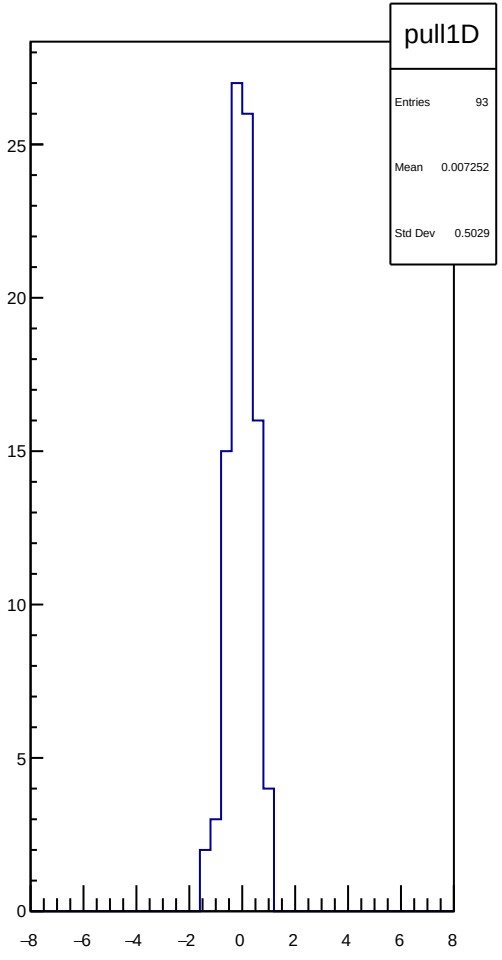

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 22.91 / 92
p0 −3.279 ± 2.307
pull
Entries 93
Mean −399.9
Std Dev 0

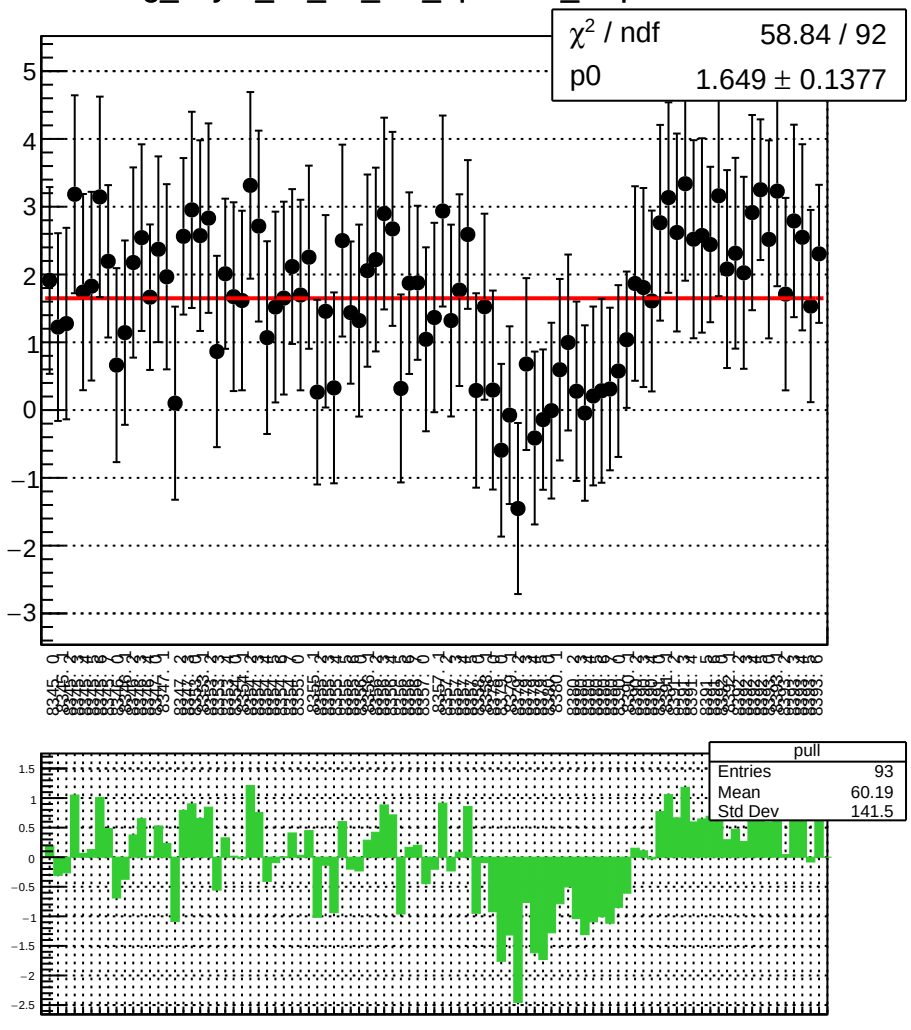

pull1D
Entries 93
Mean −0.00781
Std Dev 0.4963

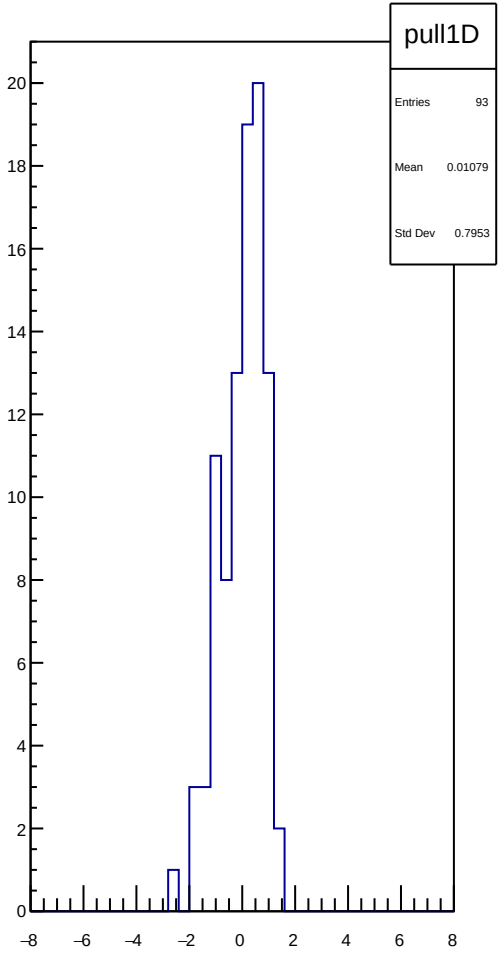

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 29.26 / 92
p0 −65.69 ± 1.453
−20
−40
−60
−80
−100
pull
Entries 93
Mean 3985
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

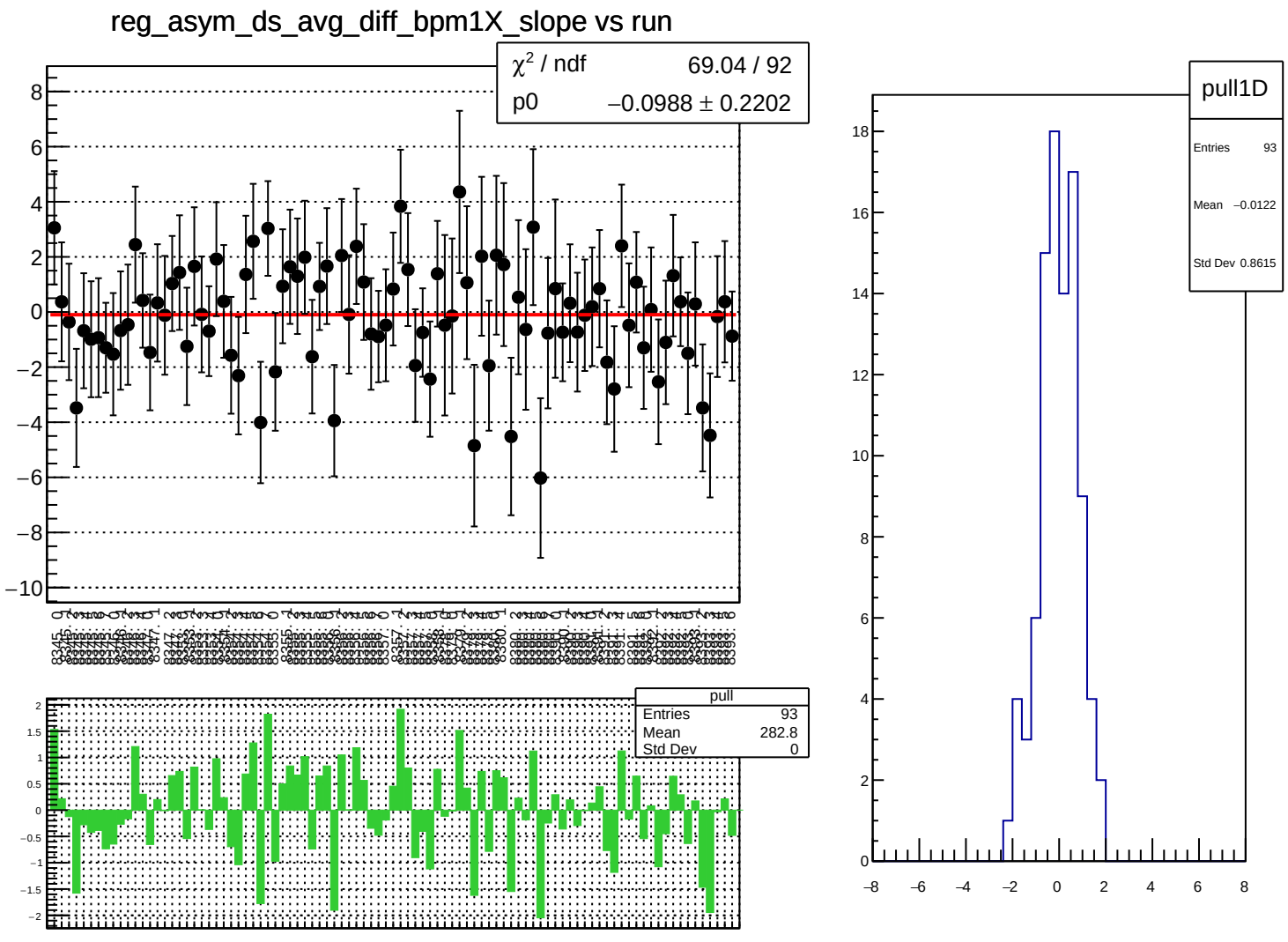

pull1D
Entries 93
Mean 0.0007126
Std Dev 0.5609
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

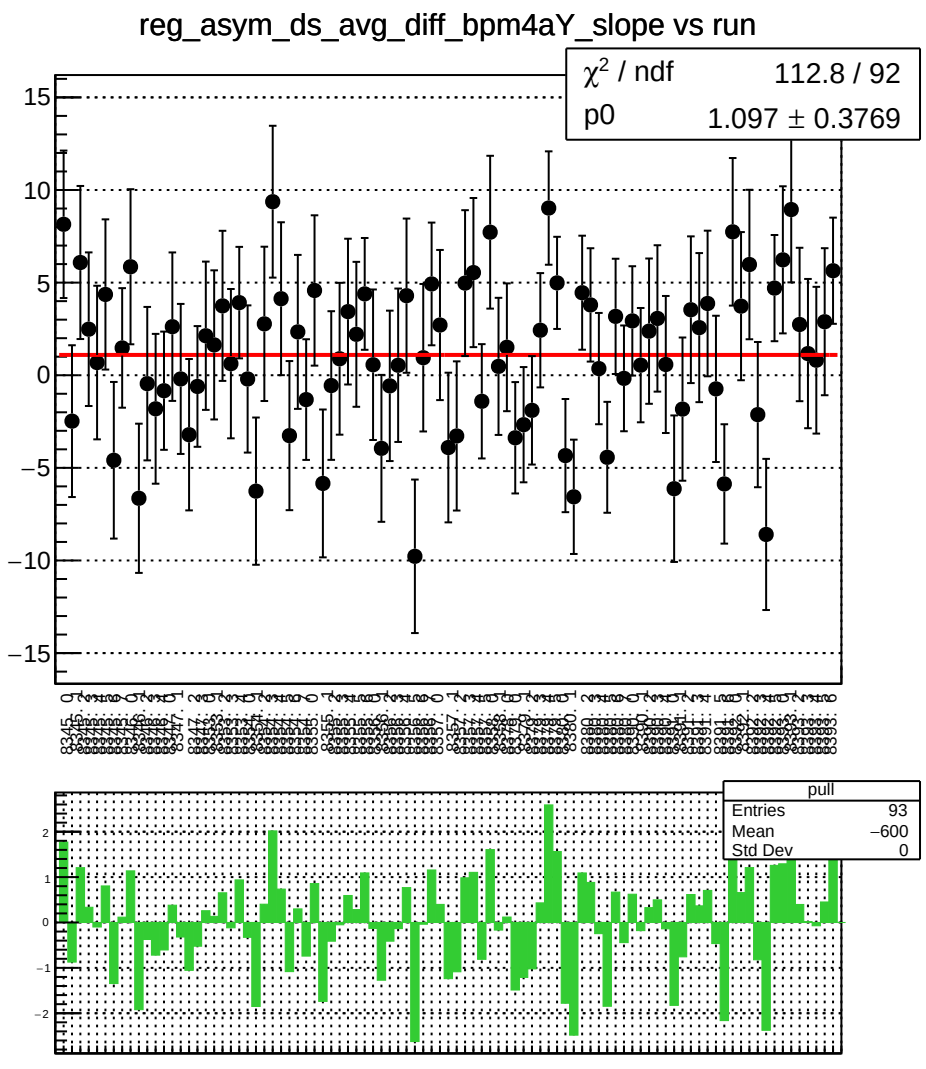

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 23.53 / 92
p0 5.33 ± 2.438
pull
Entries 93
Mean −451.7
Std Dev 0

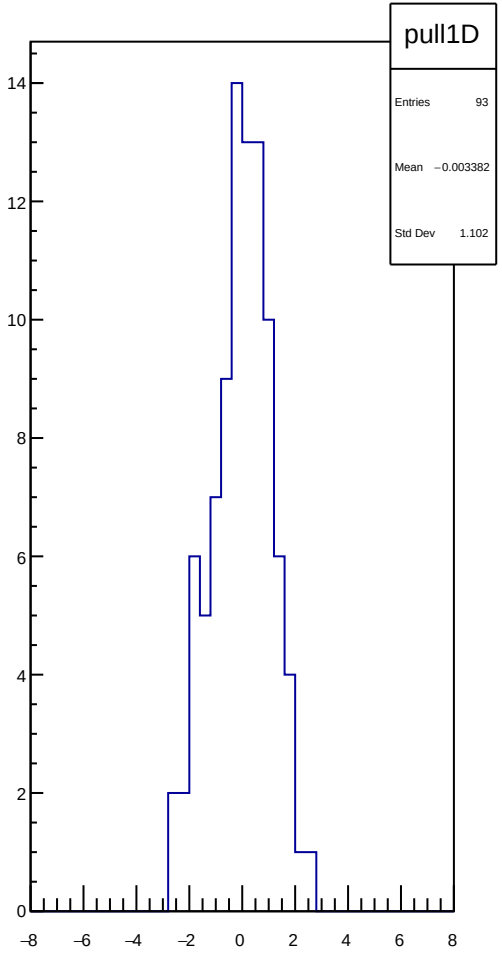

pull1D
Entries 93
Mean 0.007252
Std Dev 0.5029

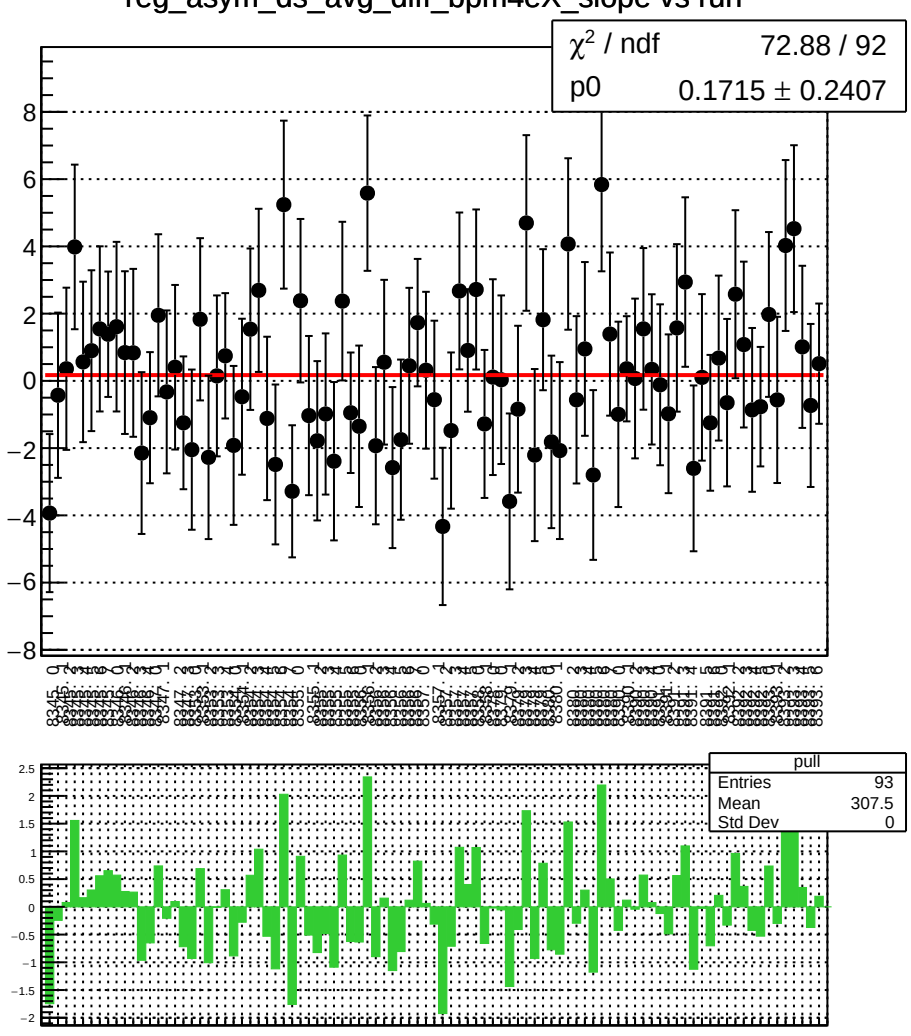

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 58.84 / 92
p0 1.649 ± 0.1377
pull
Entries 93
Mean 60.19
Std Dev 141.5

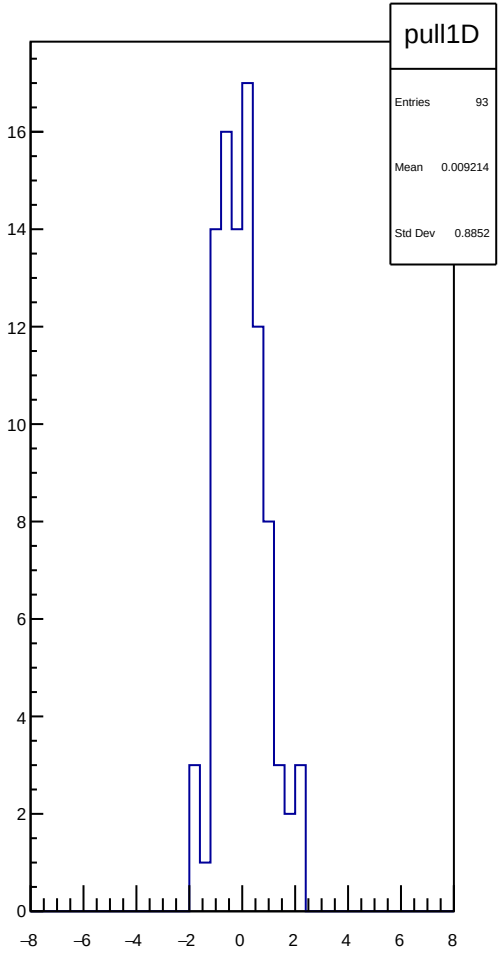

pull1D
Entries 93
Mean 0.01079
Std Dev 0.7953

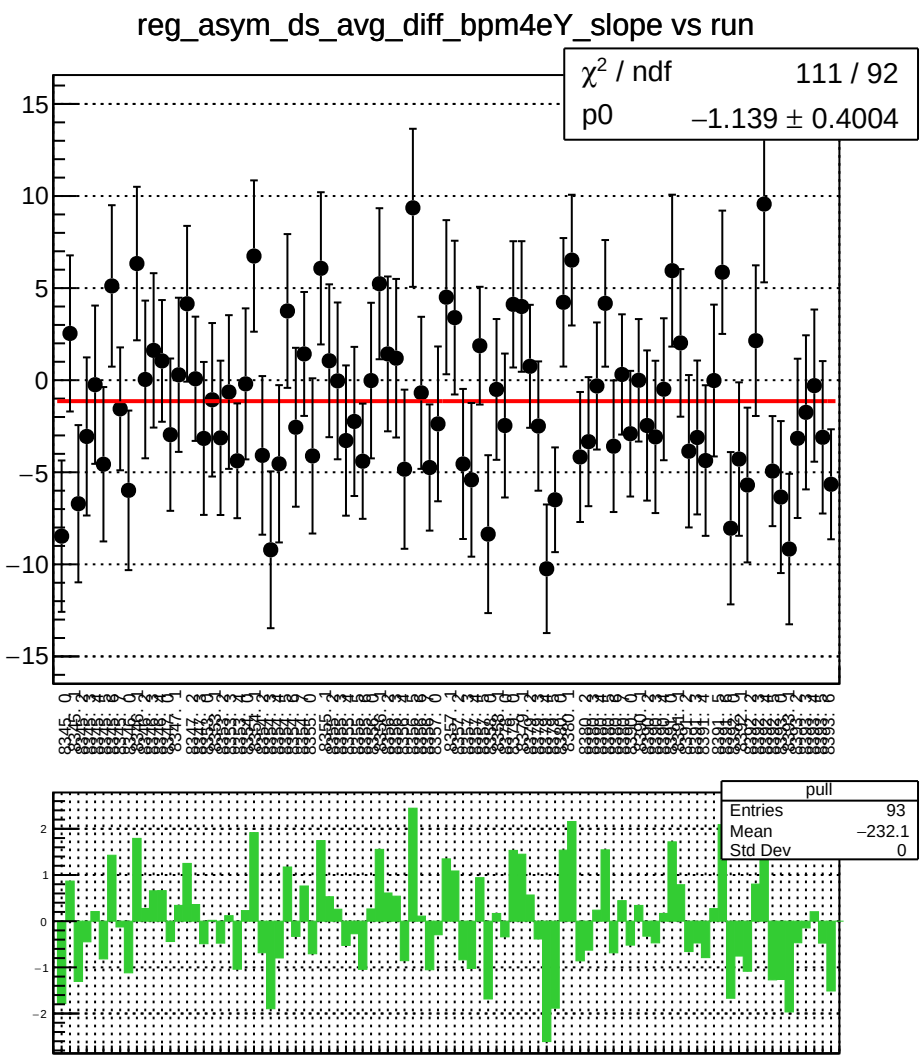

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 69.04 / 92
p0 −0.0988 ± 0.2202
pull
Entries 93
Mean 282.8
Std Dev 0
pull1D
Entries 93
Mean −0.0122
Std Dev 0.8615

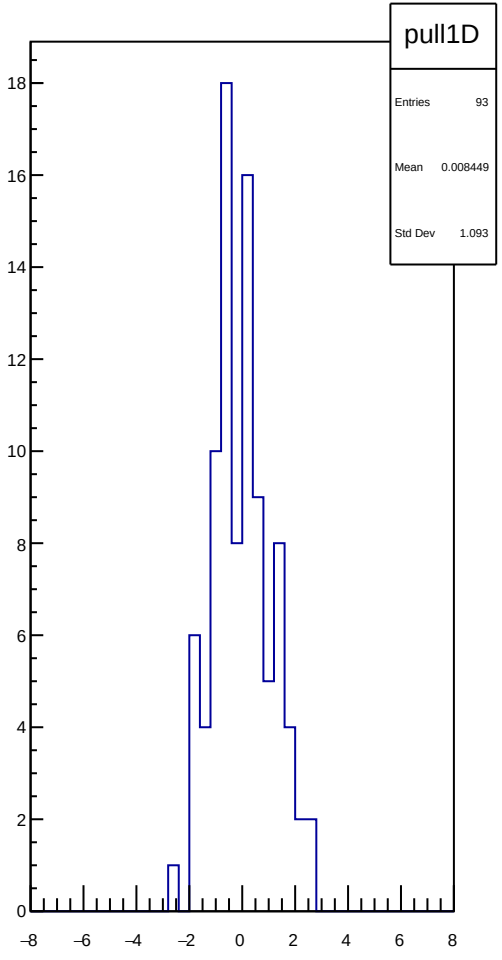

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 112.8 / 92
p0 1.097 ± 0.3769
pull
Entries 93
Mean −600
Std Dev 0

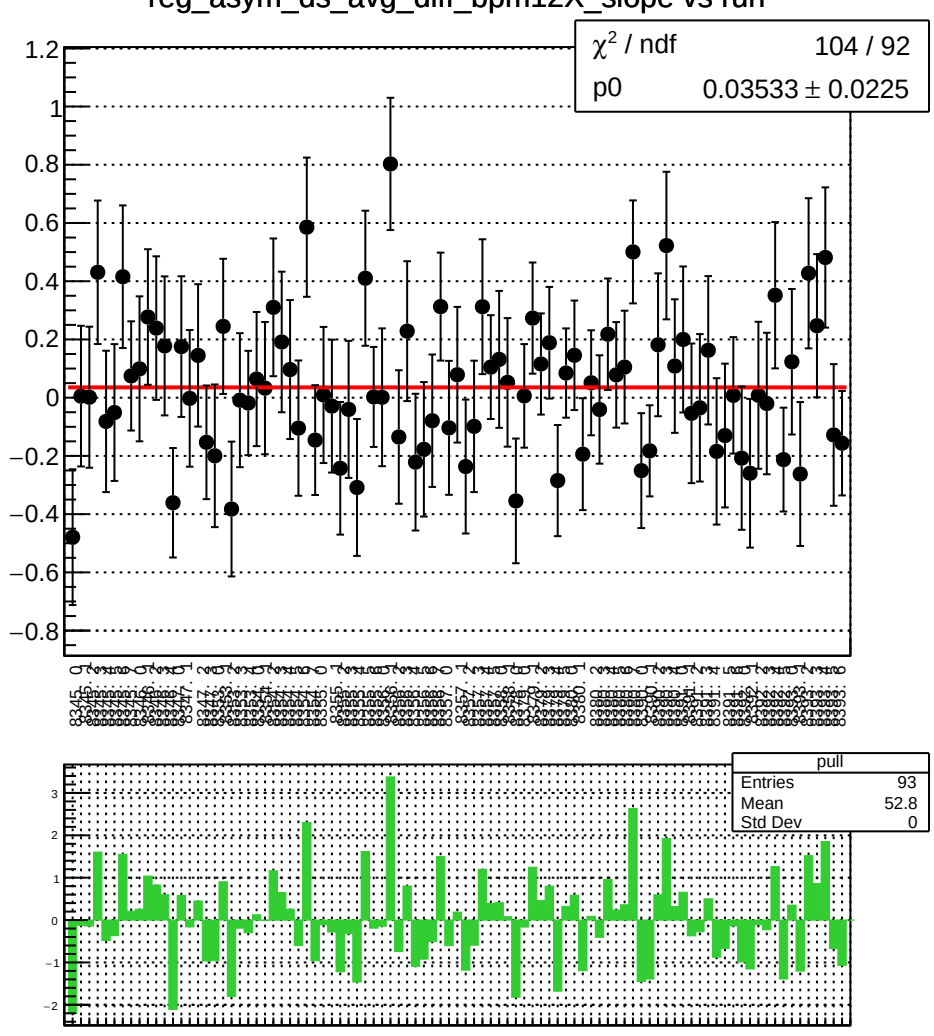

pull1D
Entries 93
Mean −0.003382
Std Dev 1.102

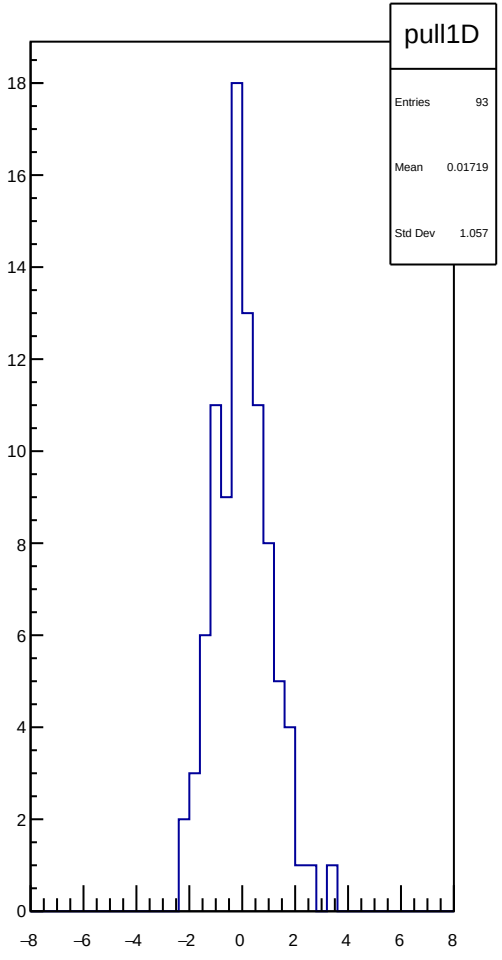

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 72.88 / 92
p0 0.1715 ± 0.2407
pull
Entries 93
Mean 307.5
Std Dev 0

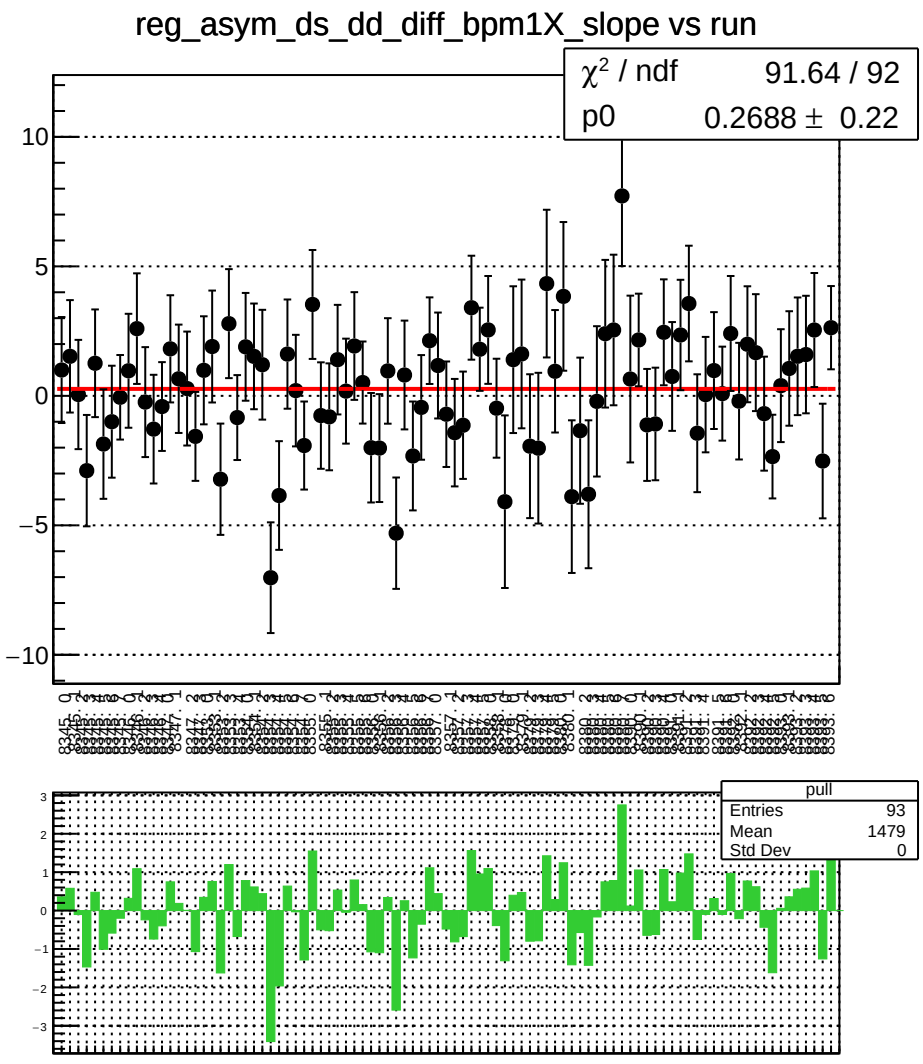

pull1D
Entries 93
Mean 0.009214
Std Dev 0.8852

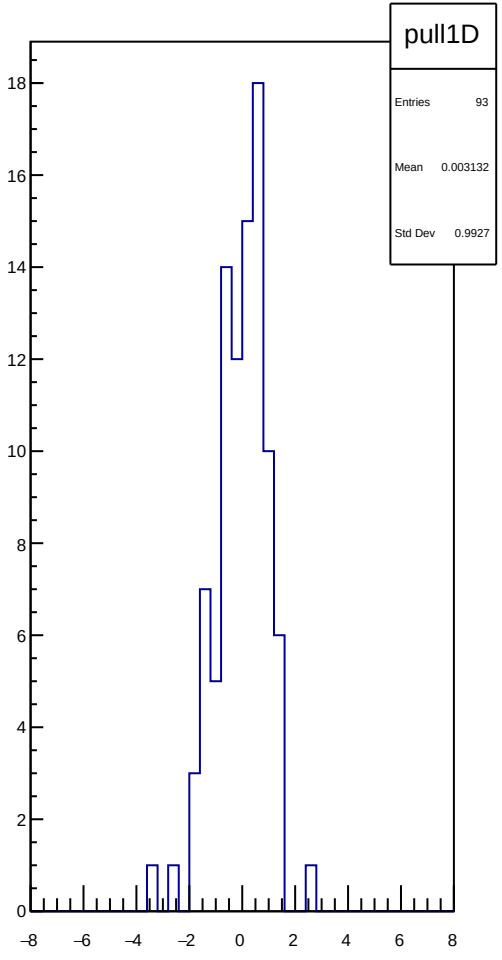

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 111 / 92
p0 −1.139 ± 0.4004
pull
Entries 93
Mean −232.1
Std Dev 0

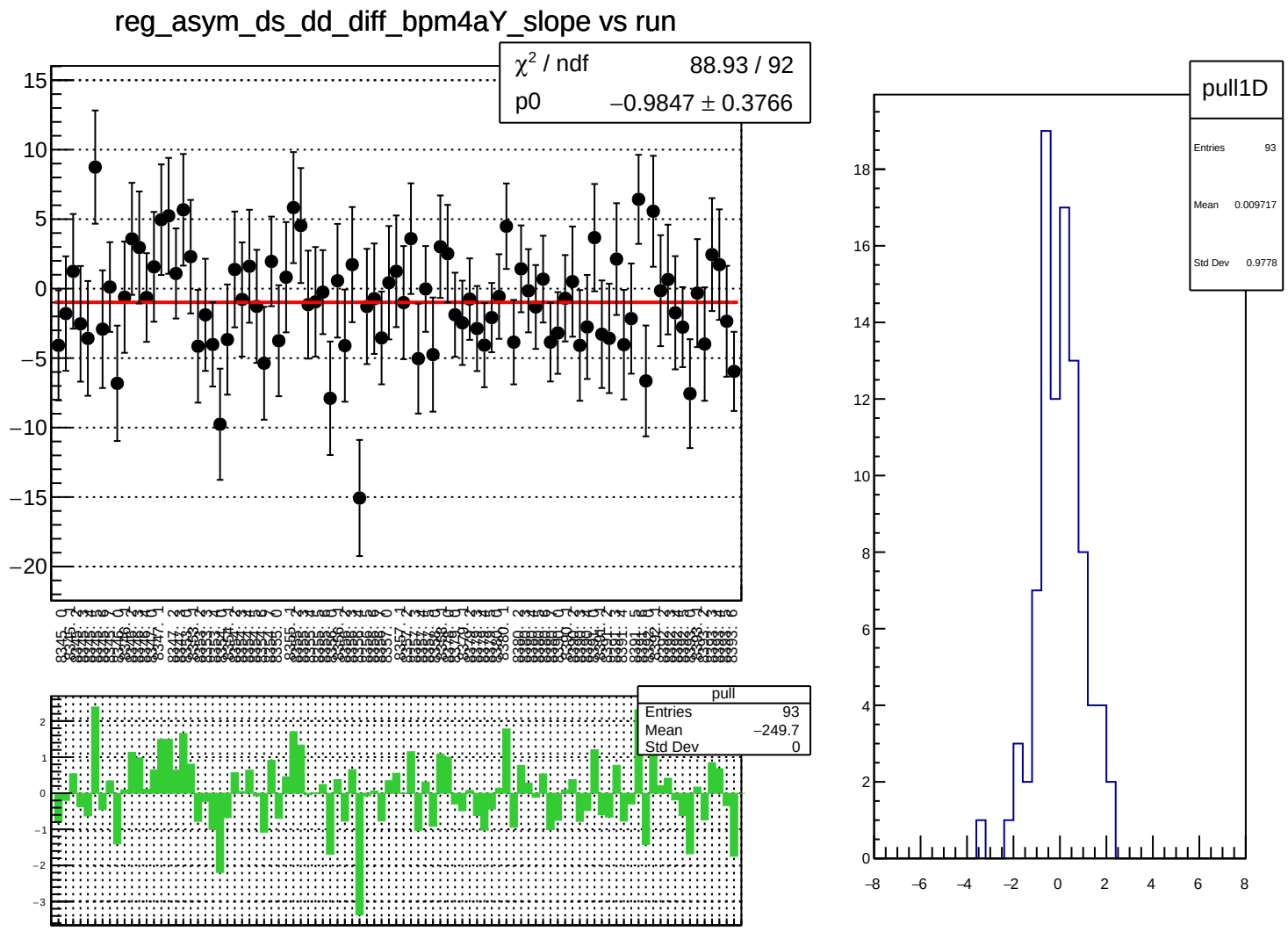

pull1D
Entries 93
Mean 0.008449
Std Dev 1.093

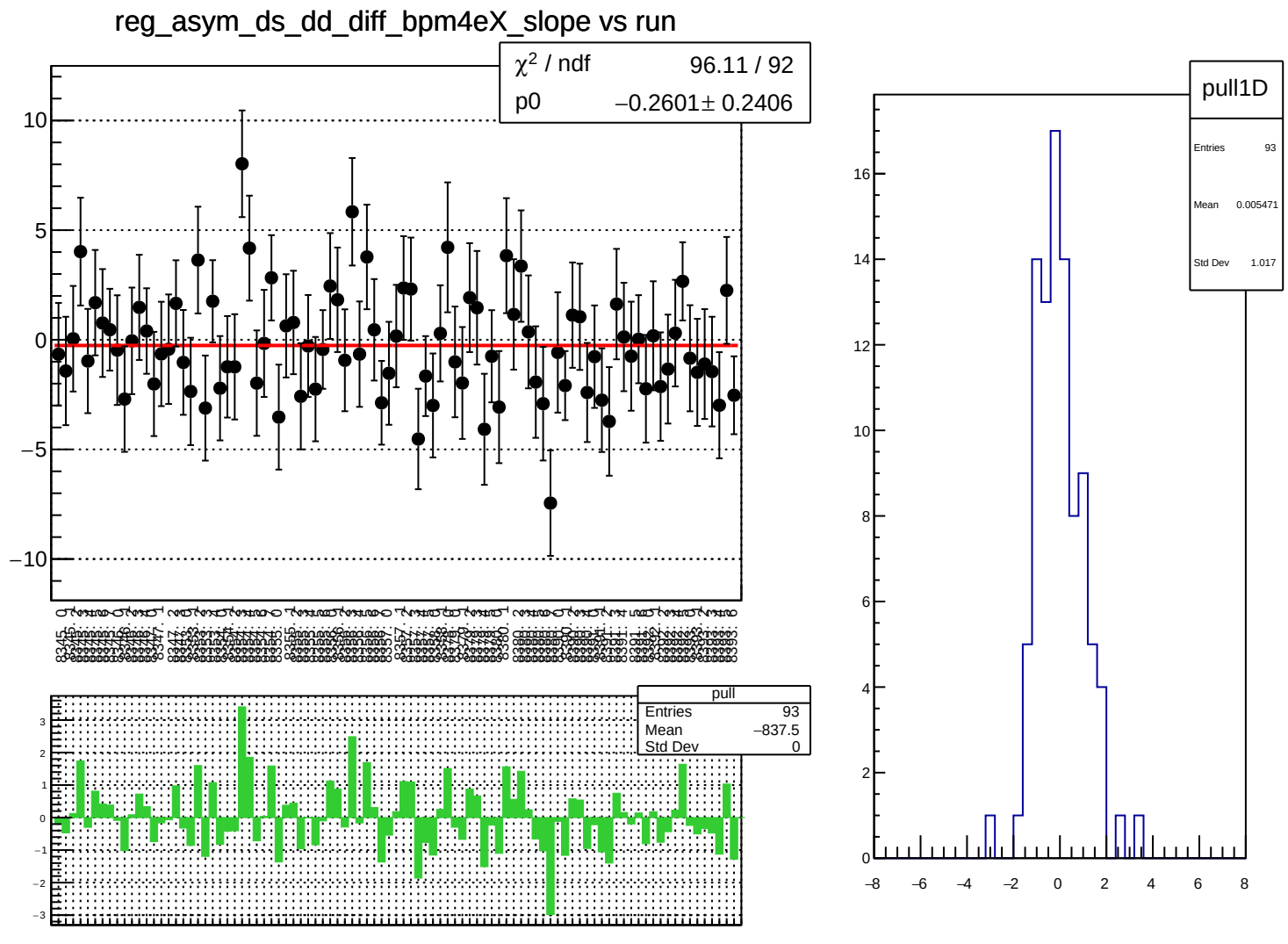

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 104 / 92
p0 0.03533 ± 0.0225
pull
Entries 93
Mean 52.8
Std Dev 0

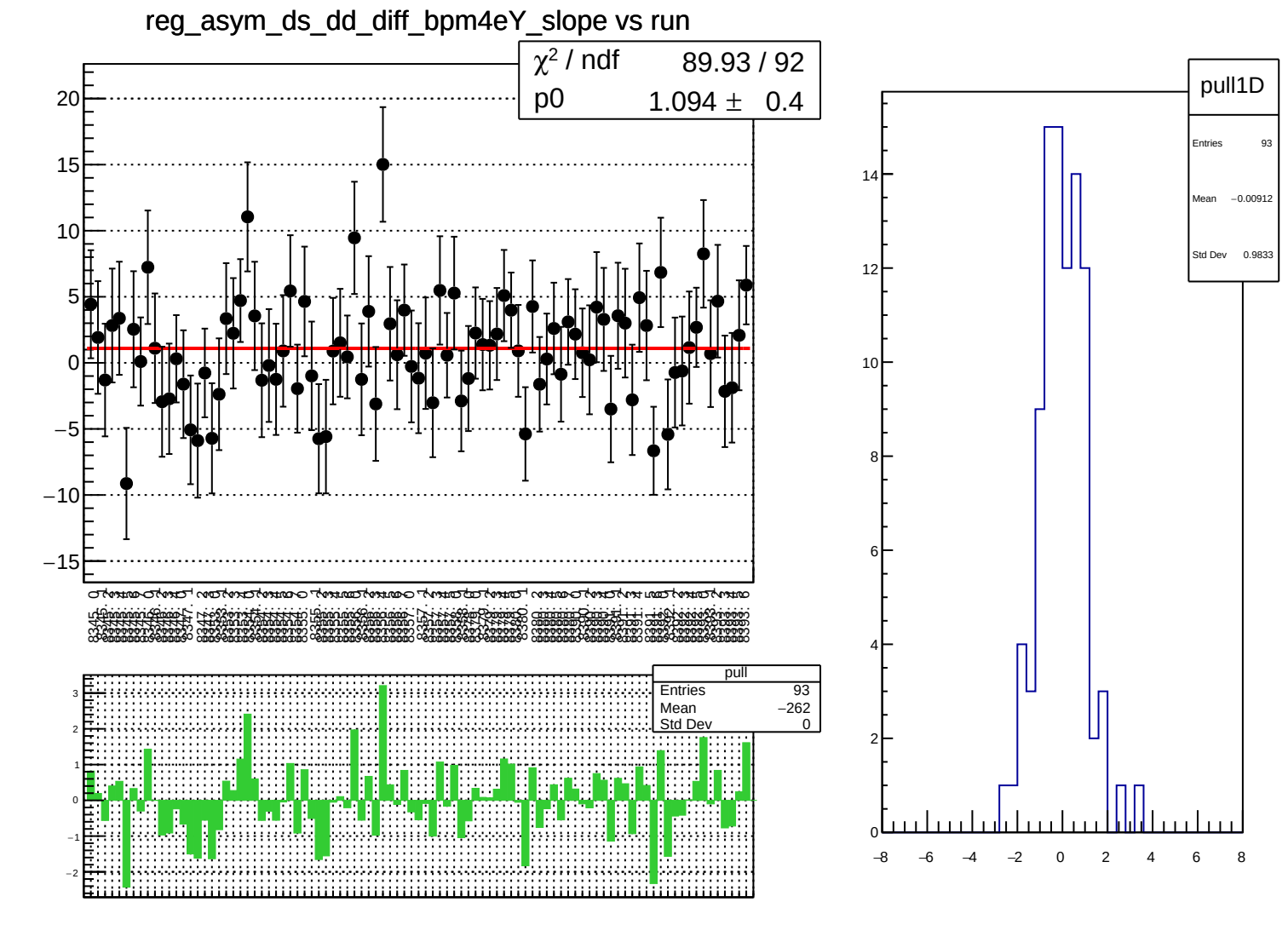

pull1D
Entries 93
Mean 0.01719
Std Dev 1.057

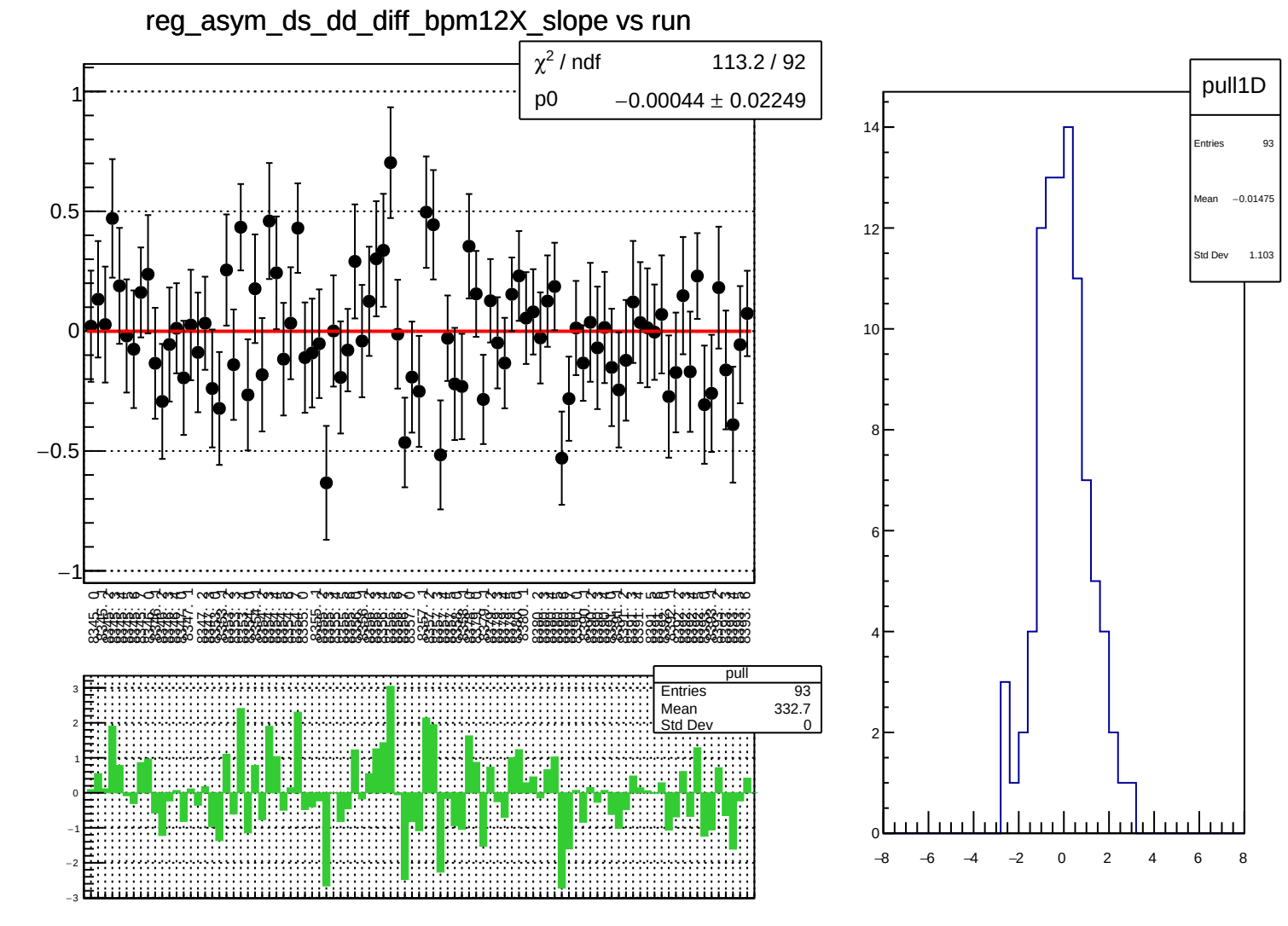

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 91.64 / 92
p0 0.2688 ± 0.22
pull
Entries 93
Mean 1479
Std Dev 0

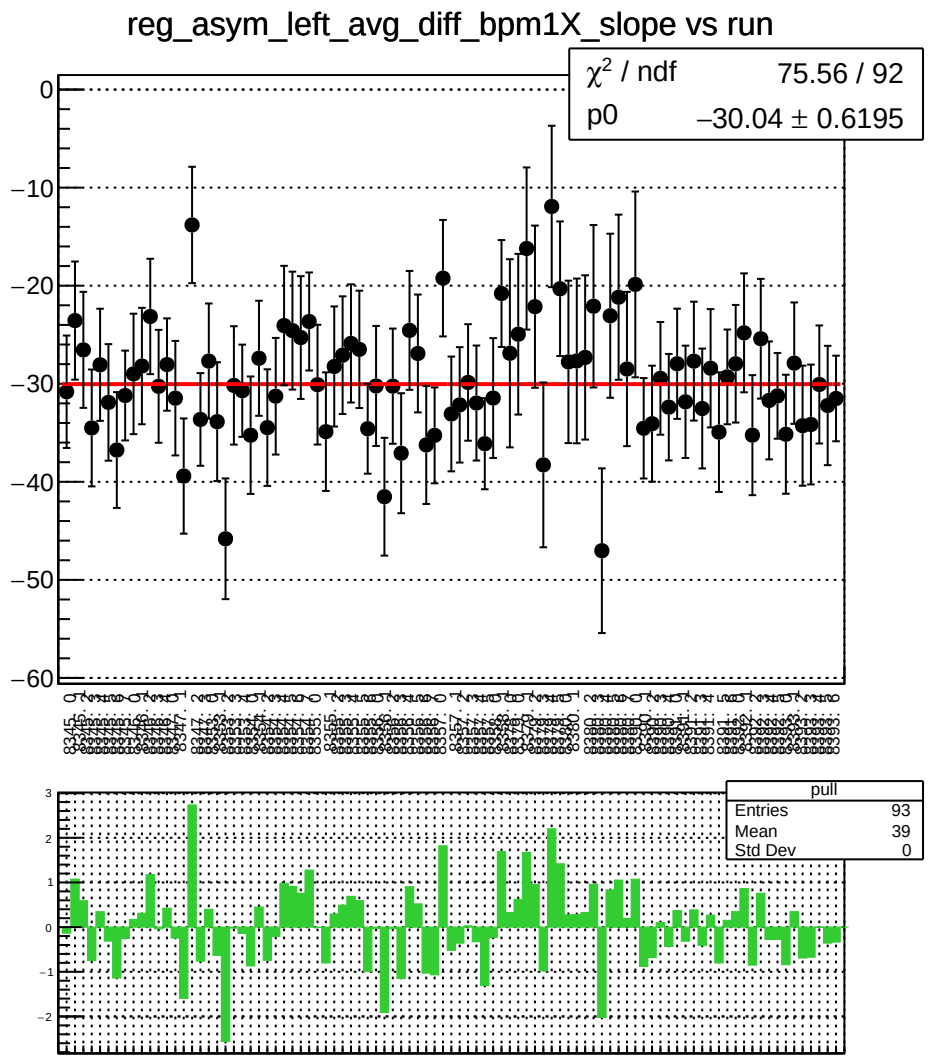

pull1D
Entries 93
Mean 0.003132
Std Dev 0.9927

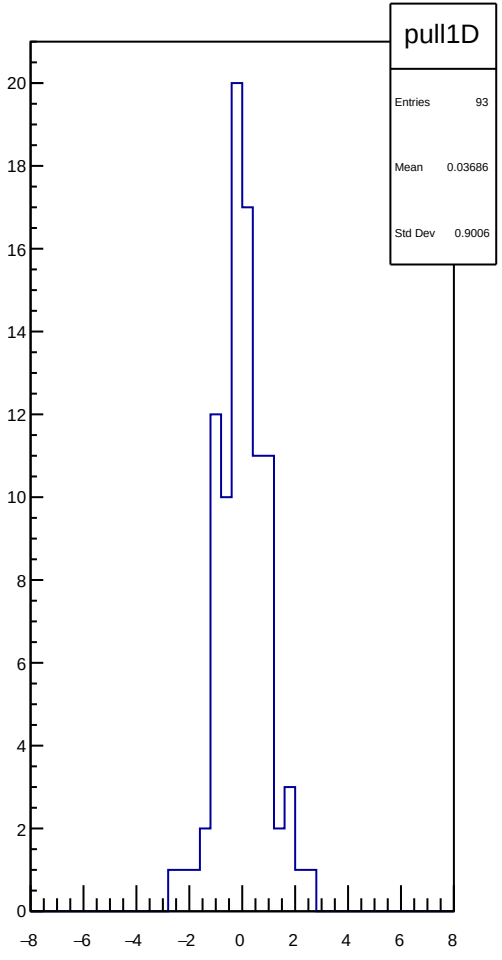

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 88.93 / 92
p0 −0.9847 ± 0.3766
pull
Entries 93
Mean −249.7
Std Dev 0
pull1D
Entries 93
Mean 0.009717
Std Dev 0.9778

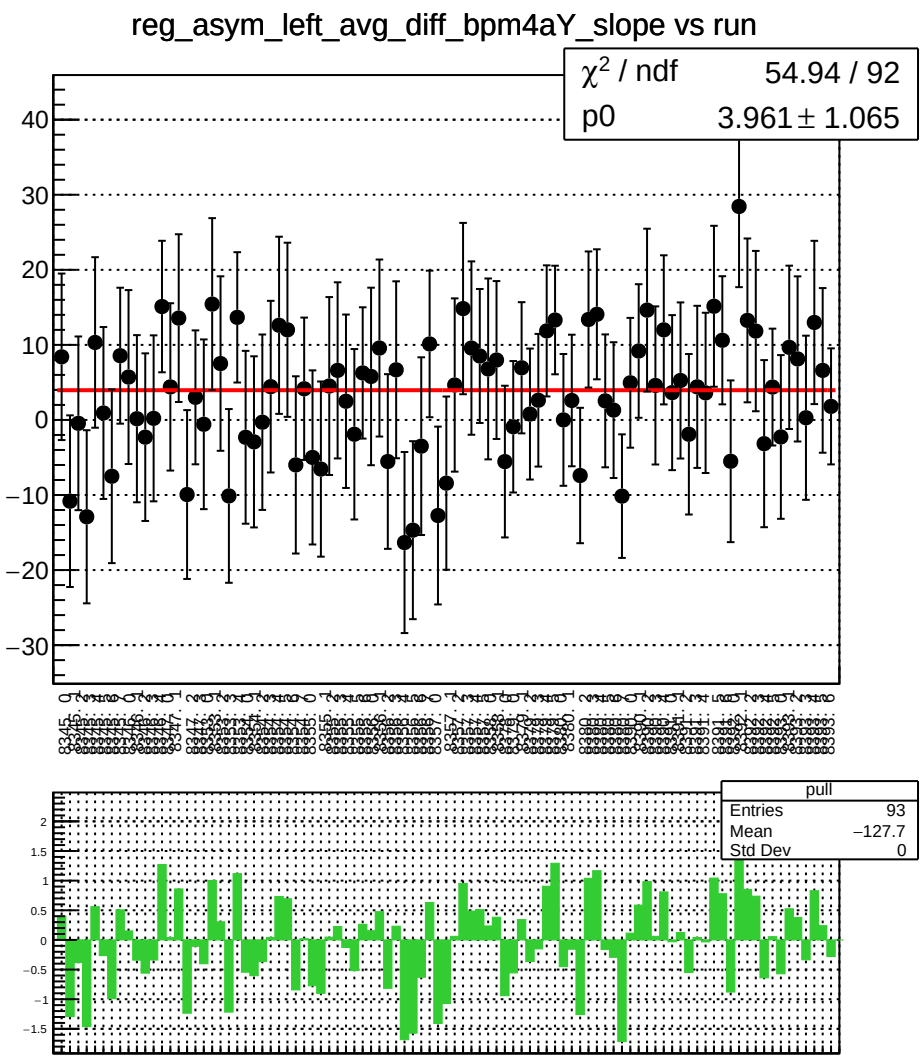

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 96.11 / 92
p0 −0.2601± 0.2406
pull
Entries 93
Mean −837.5
Std Dev 0
pull1D
Entries 93
Mean 0.005471
Std Dev 1.017

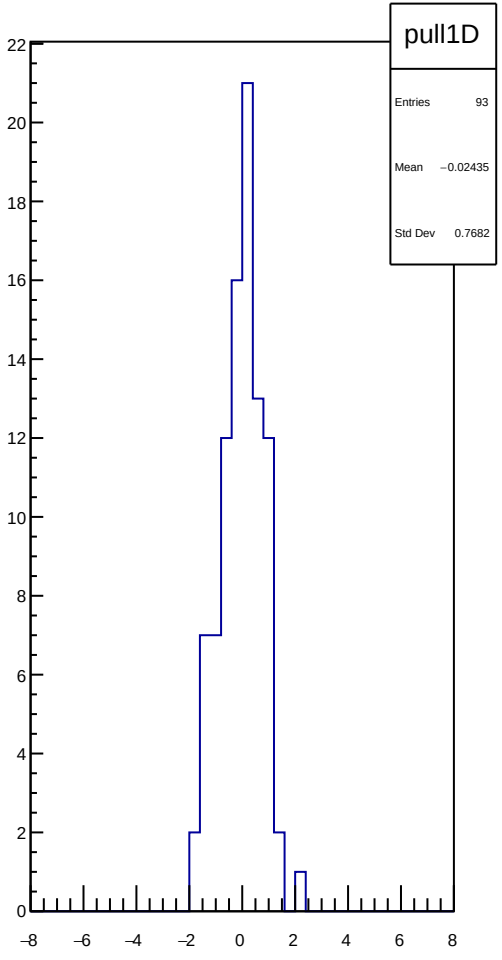

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 89.93 / 92
p0 1.094 ± 0.4
pull
Entries 93
Mean −262
Std Dev 0
pull1D
Entries 93
Mean −0.00912
Std Dev 0.9833

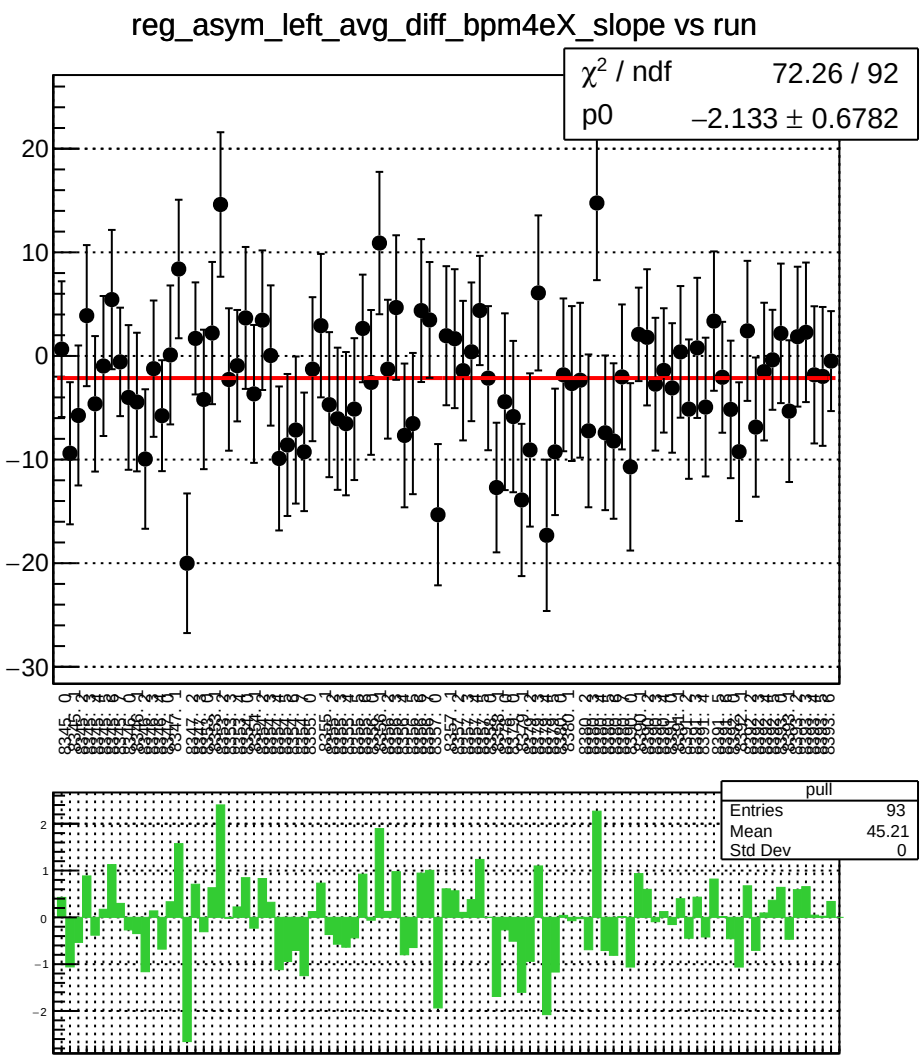

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 113.2 / 92
p0 −0.00044 ± 0.02249
pull
Entries 93
Mean 332.7
Std Dev 0
pull1D
Entries 93
Mean −0.01475
Std Dev 1.103

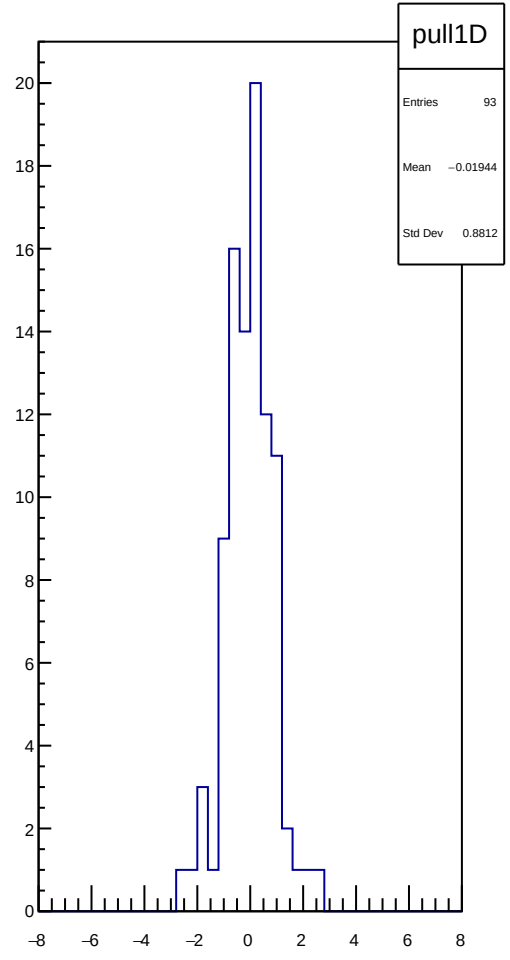

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 75.56 / 92
p0 −30.04 ± 0.6195
pull
Entries 93
Mean 39
Std Dev 0

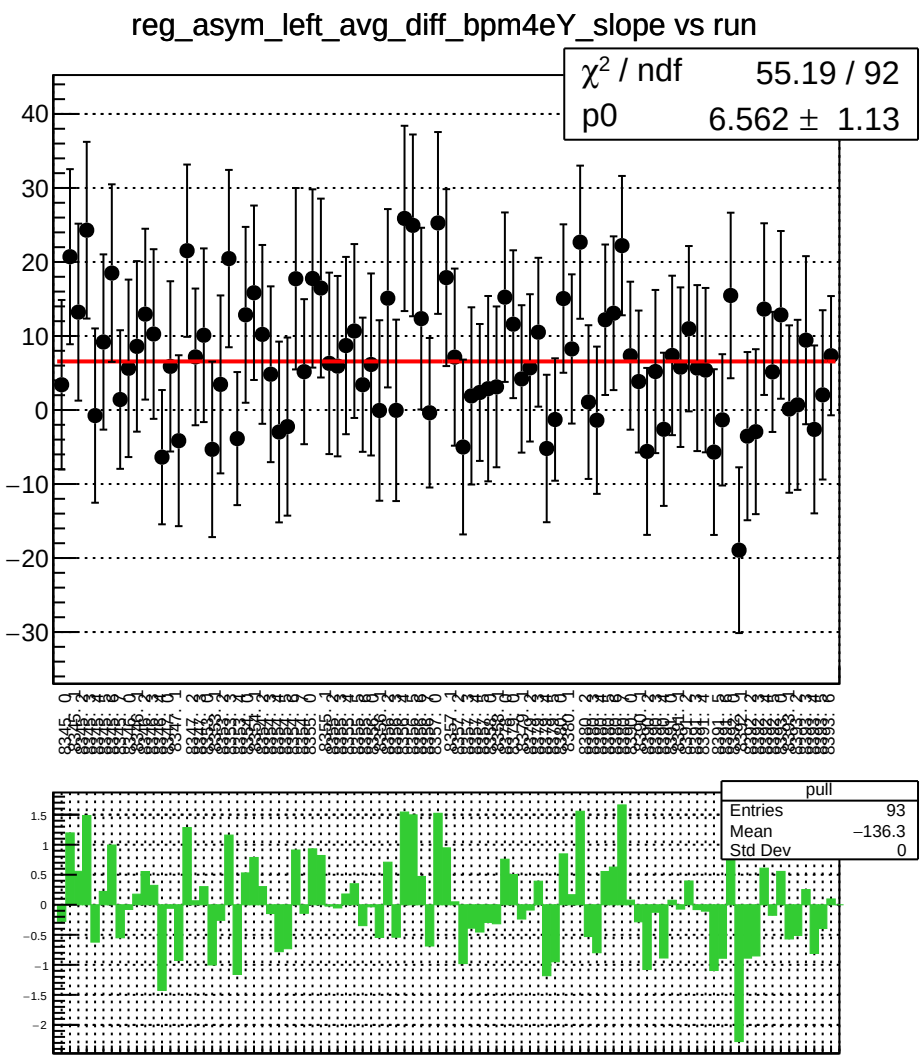

pull1D
Entries 93
Mean 0.03686
Std Dev 0.9006

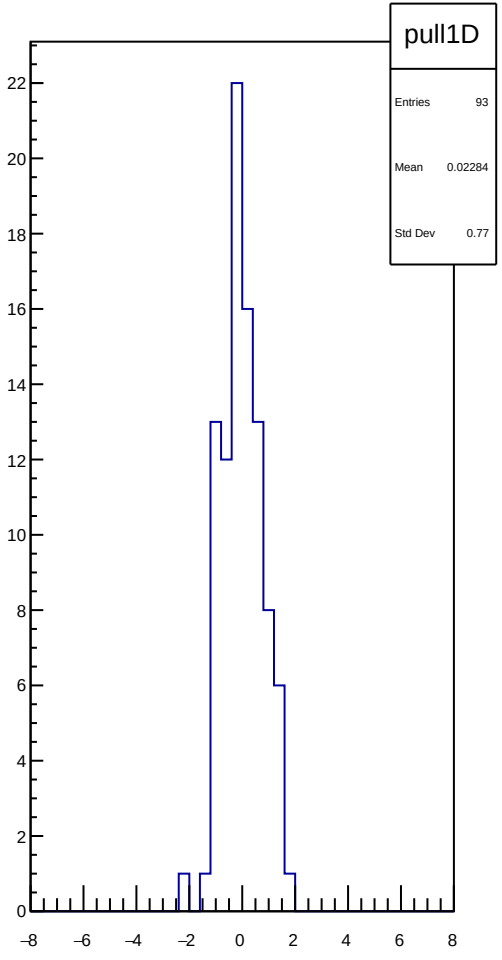

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 54.94 / 92
p0 3.961 ± 1.065
pull
Entries 93
Mean −127.7
Std Dev 0

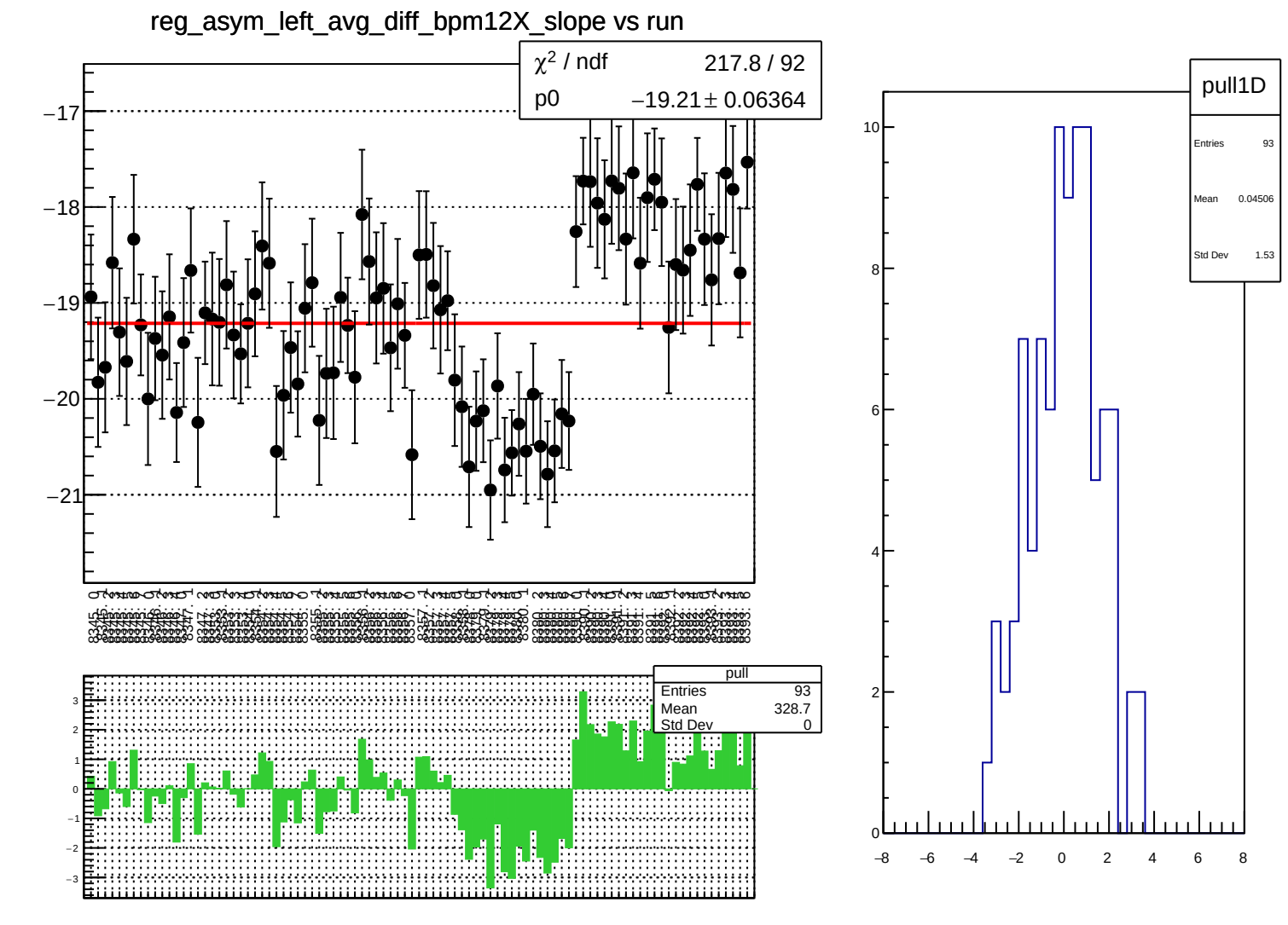

pull1D
Entries 93
Mean −0.02435
Std Dev 0.7682

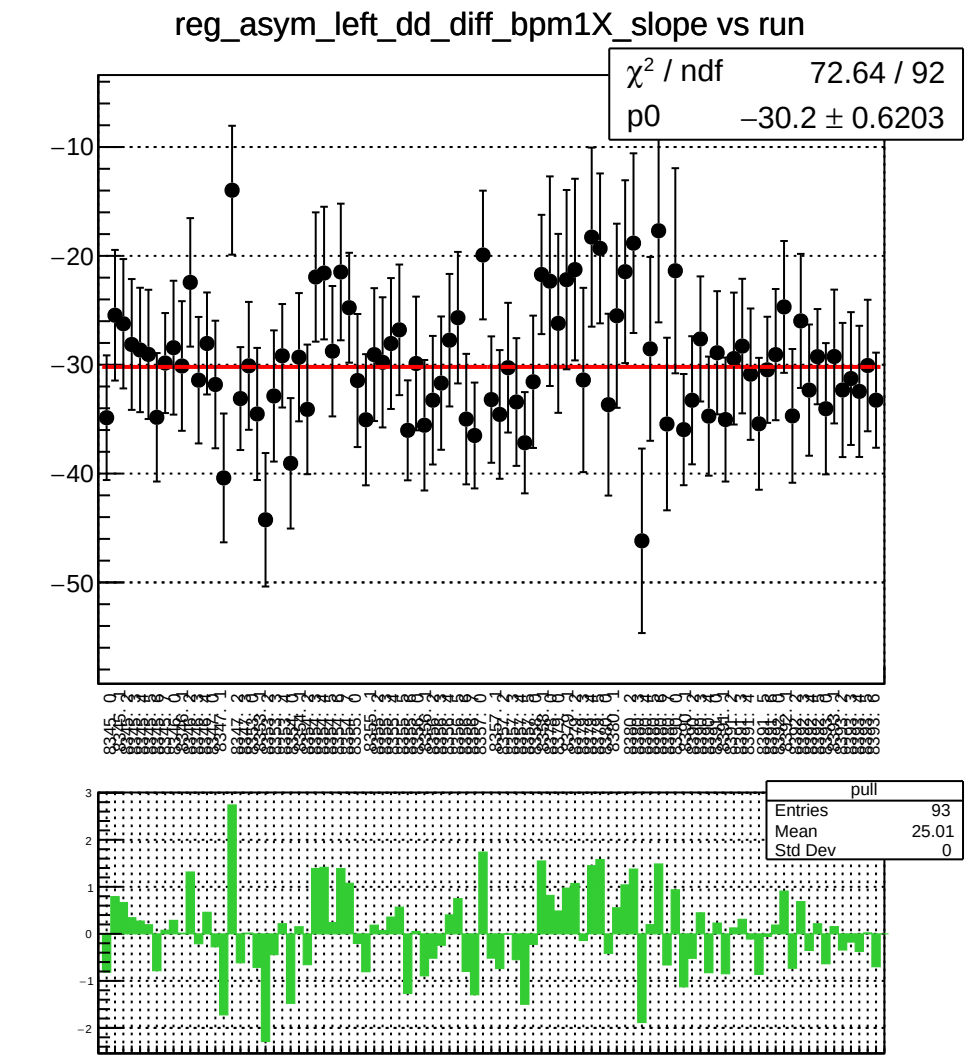

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 72.26 / 92
p0 −2.133 ± 0.6782
pull
Entries 93
Mean 45.21
Std Dev 0

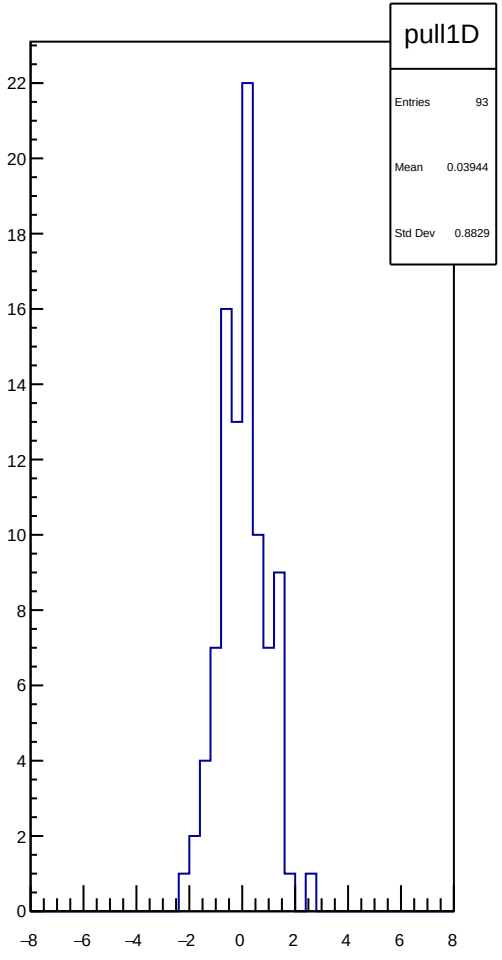

pull1D
Entries 93
Mean −0.01944
Std Dev 0.8812

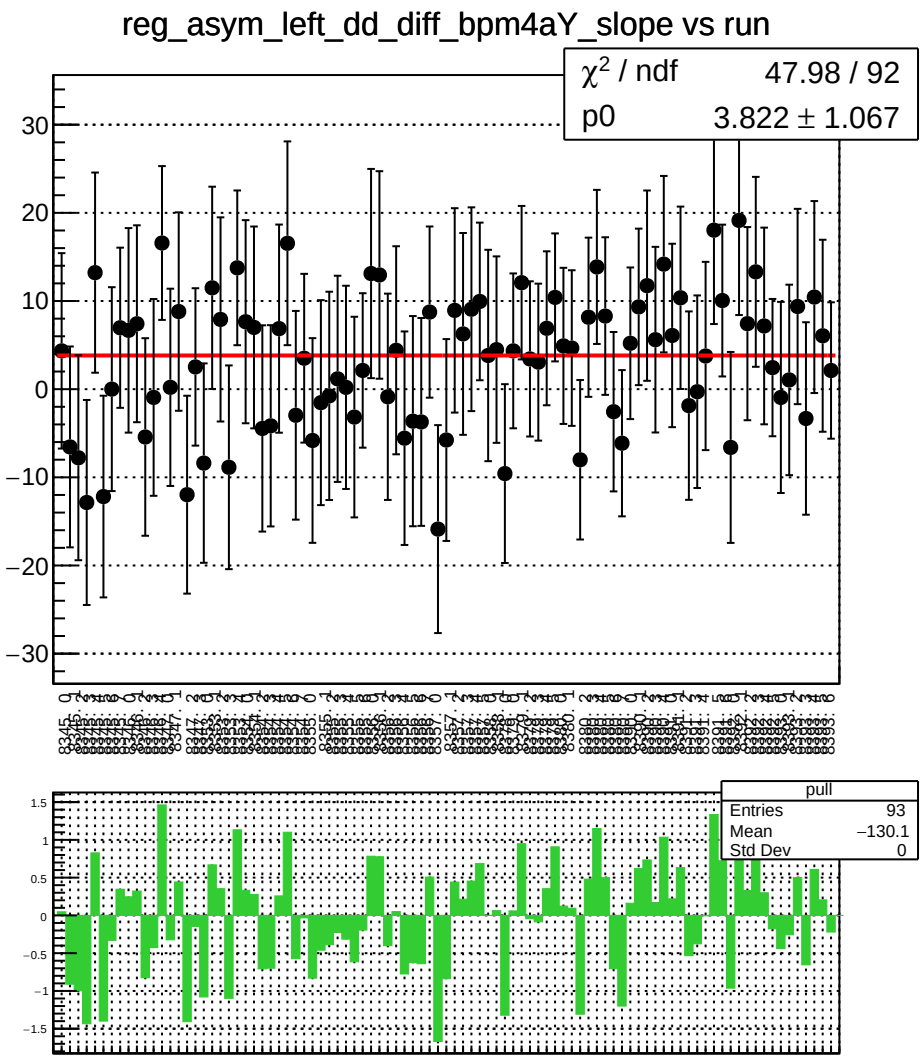

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 55.19 / 92
p0 6.562 ± 1.13
pull
Entries 93
Mean −136.3
Std Dev 0

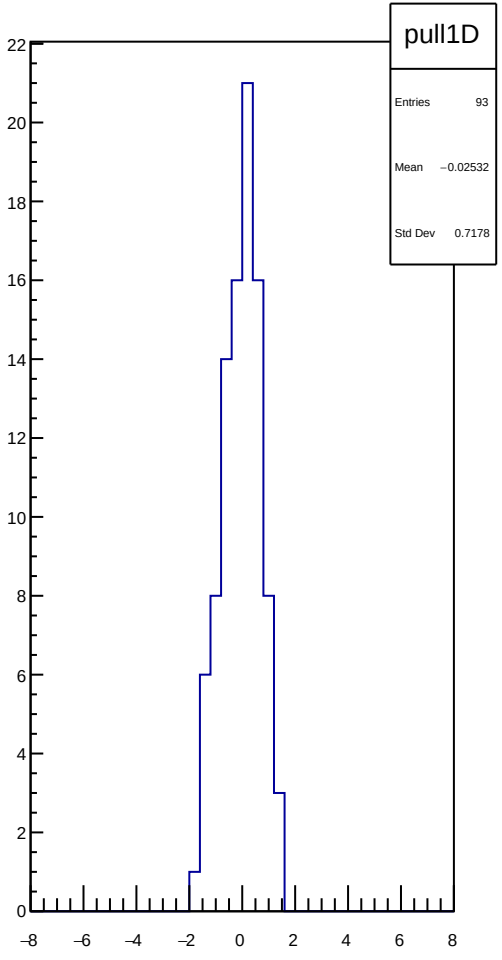

pull1D
Entries 93
Mean 0.02284
Std Dev 0.77

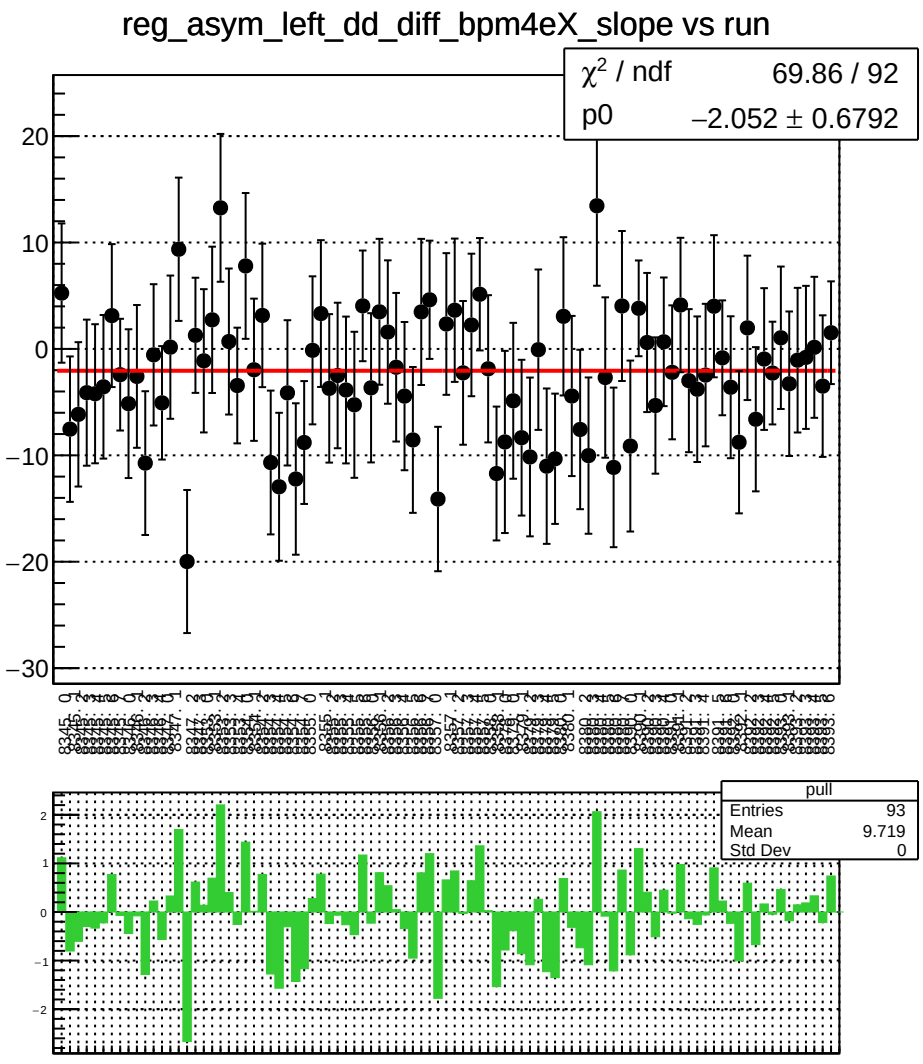

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 217.8 / 92
p0 −19.21 ± 0.06364
−17
−18
−19
−20
−21
pull
Entries 93
Mean 328.7
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.04506
Std Dev 1.53
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

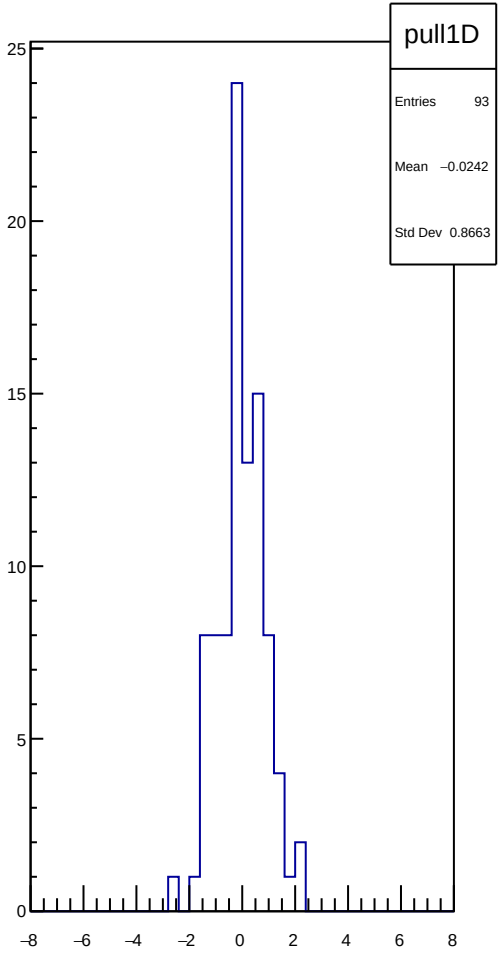

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 72.64 / 92
p0 −30.2 ± 0.6203
pull
Entries 93
Mean 25.01
Std Dev 0

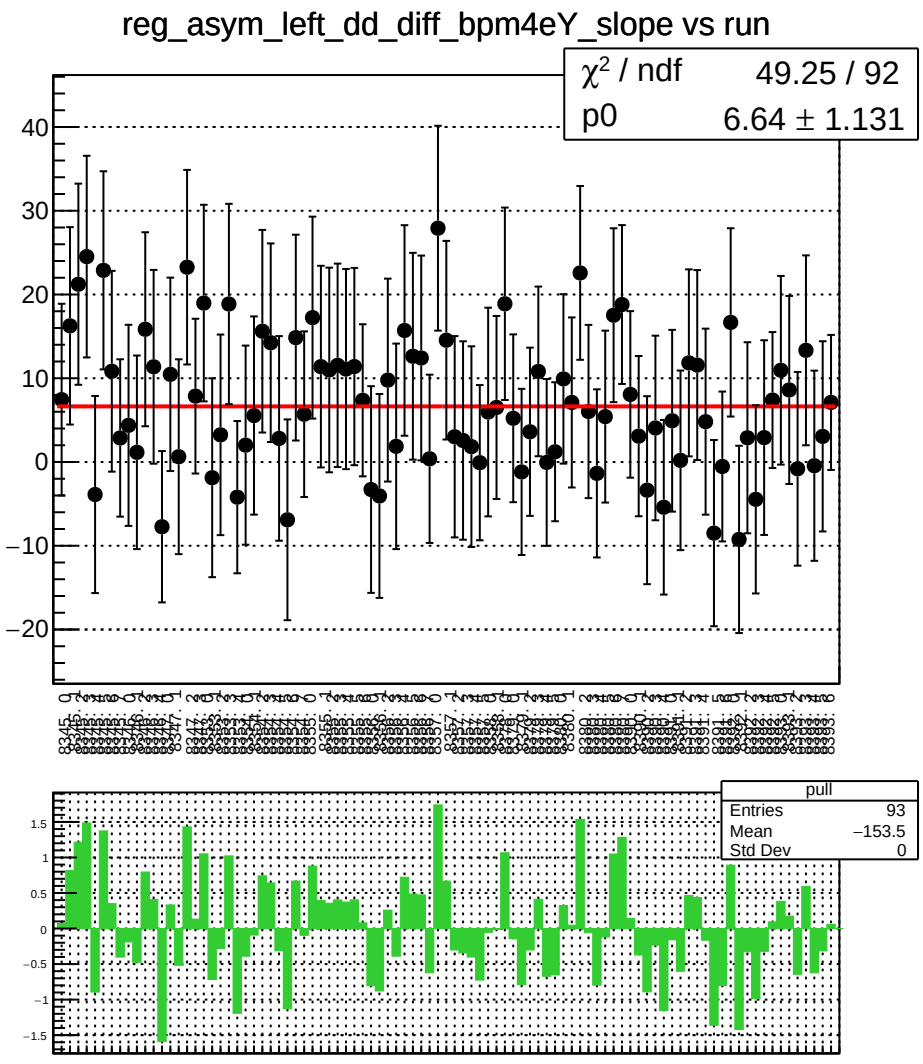

pull1D
Entries 93
Mean 0.03944
Std Dev 0.8829

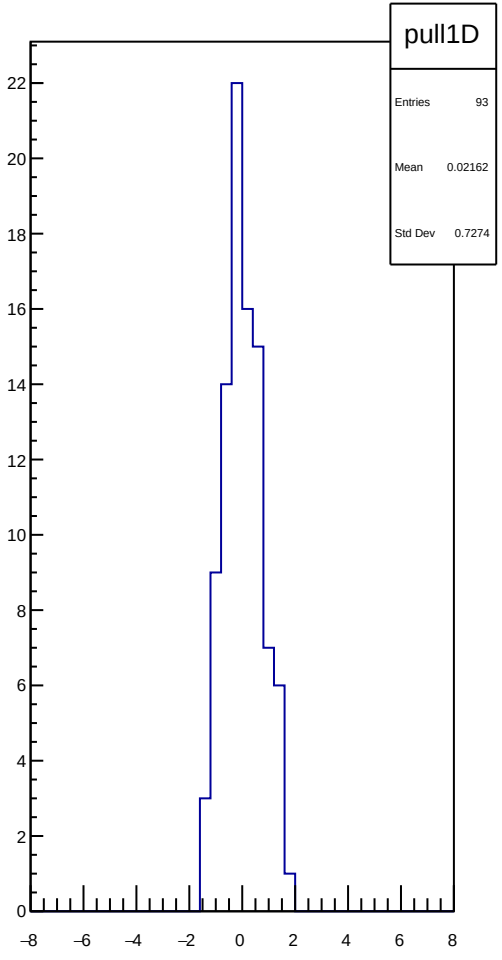

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 47.98 / 92
p0 3.822 ± 1.067
pull
Entries 93
Mean −130.1
Std Dev 0

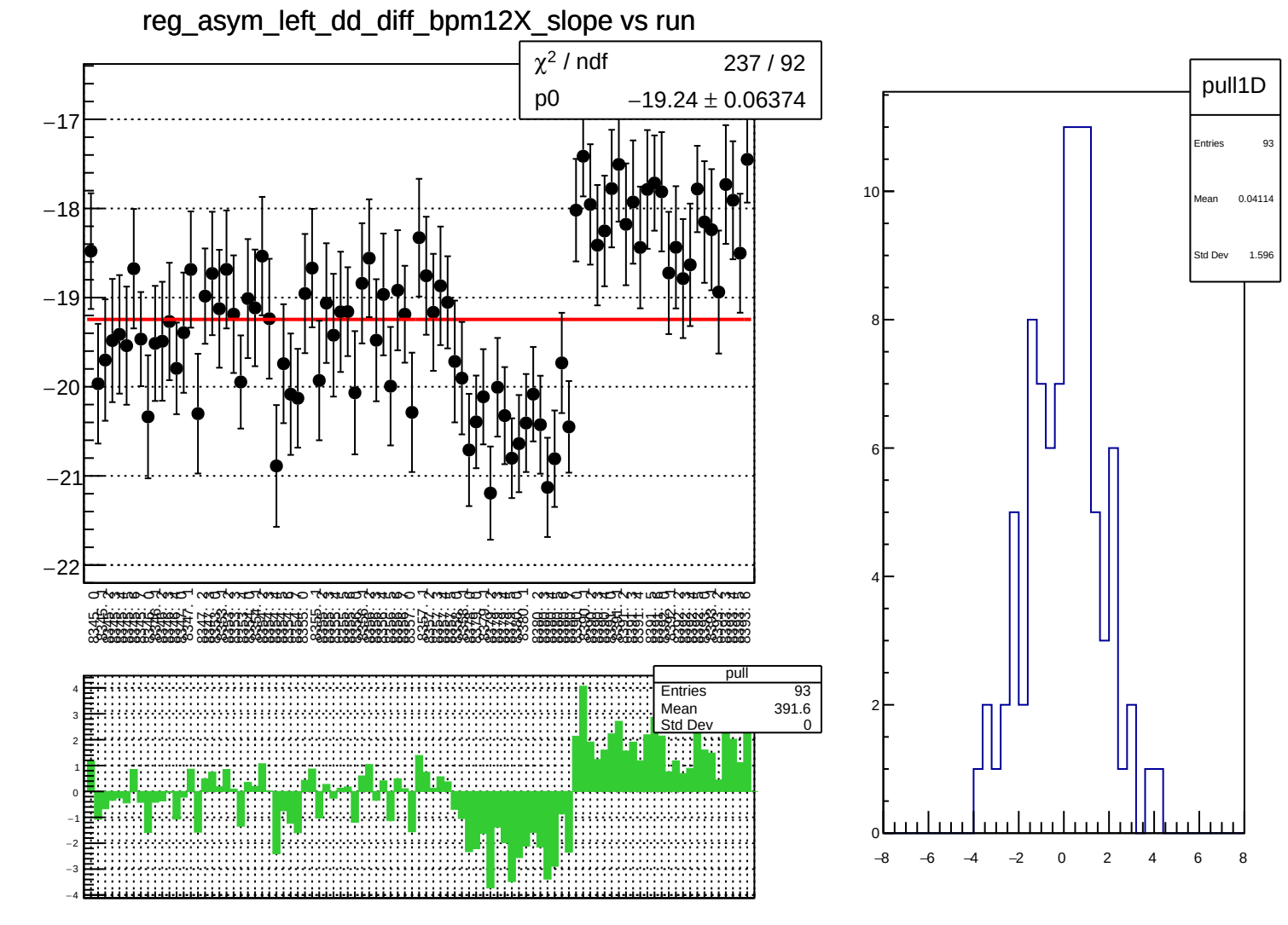

pull1D
Entries 93
Mean −0.02532
Std Dev 0.7178

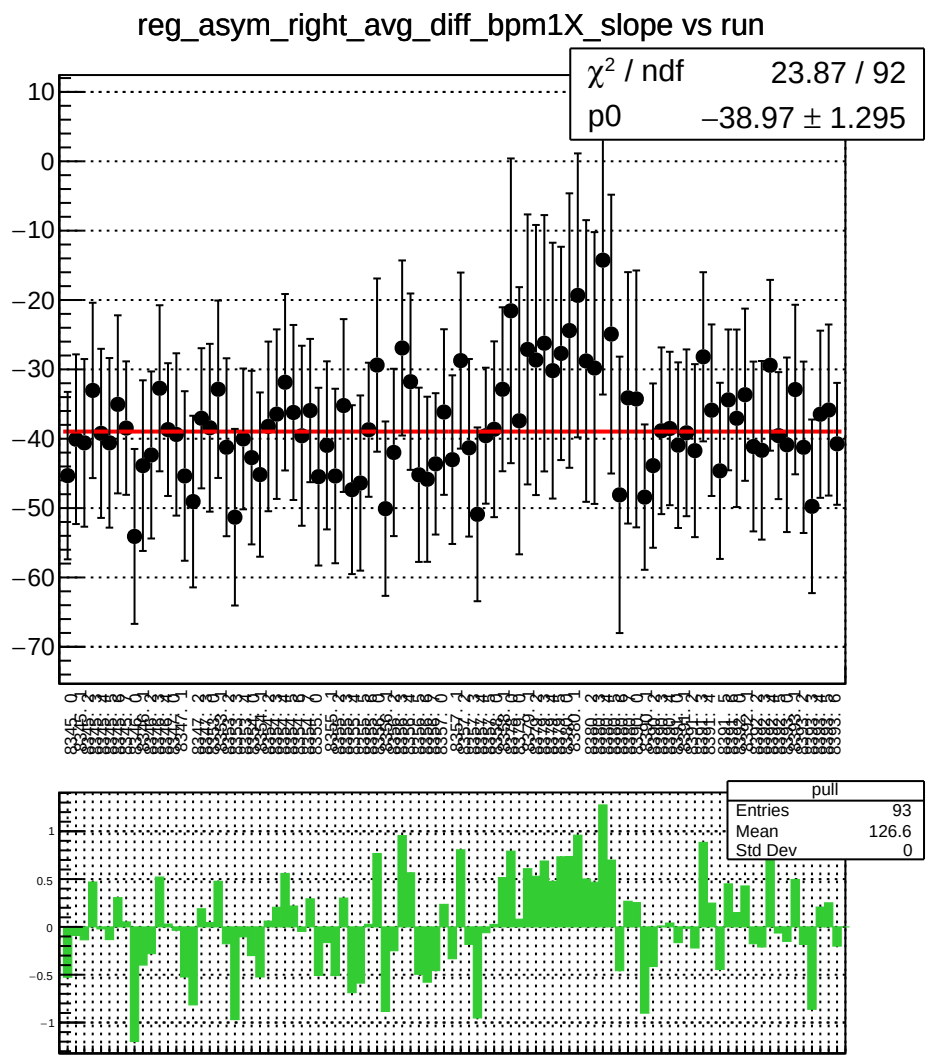

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 69.86 / 92
p0 −2.052 ± 0.6792
pull
Entries 93
Mean 9.719
Std Dev 0

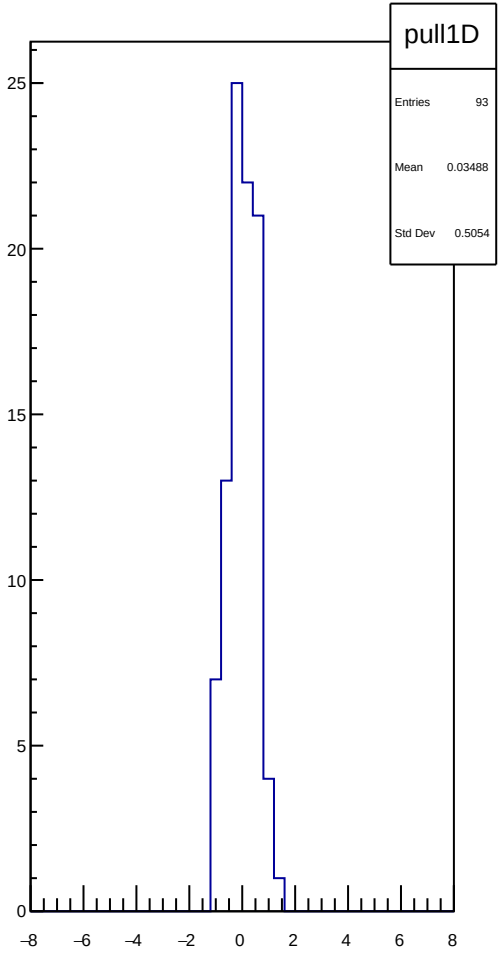

pull1D
Entries 93
Mean −0.0242
Std Dev 0.8663

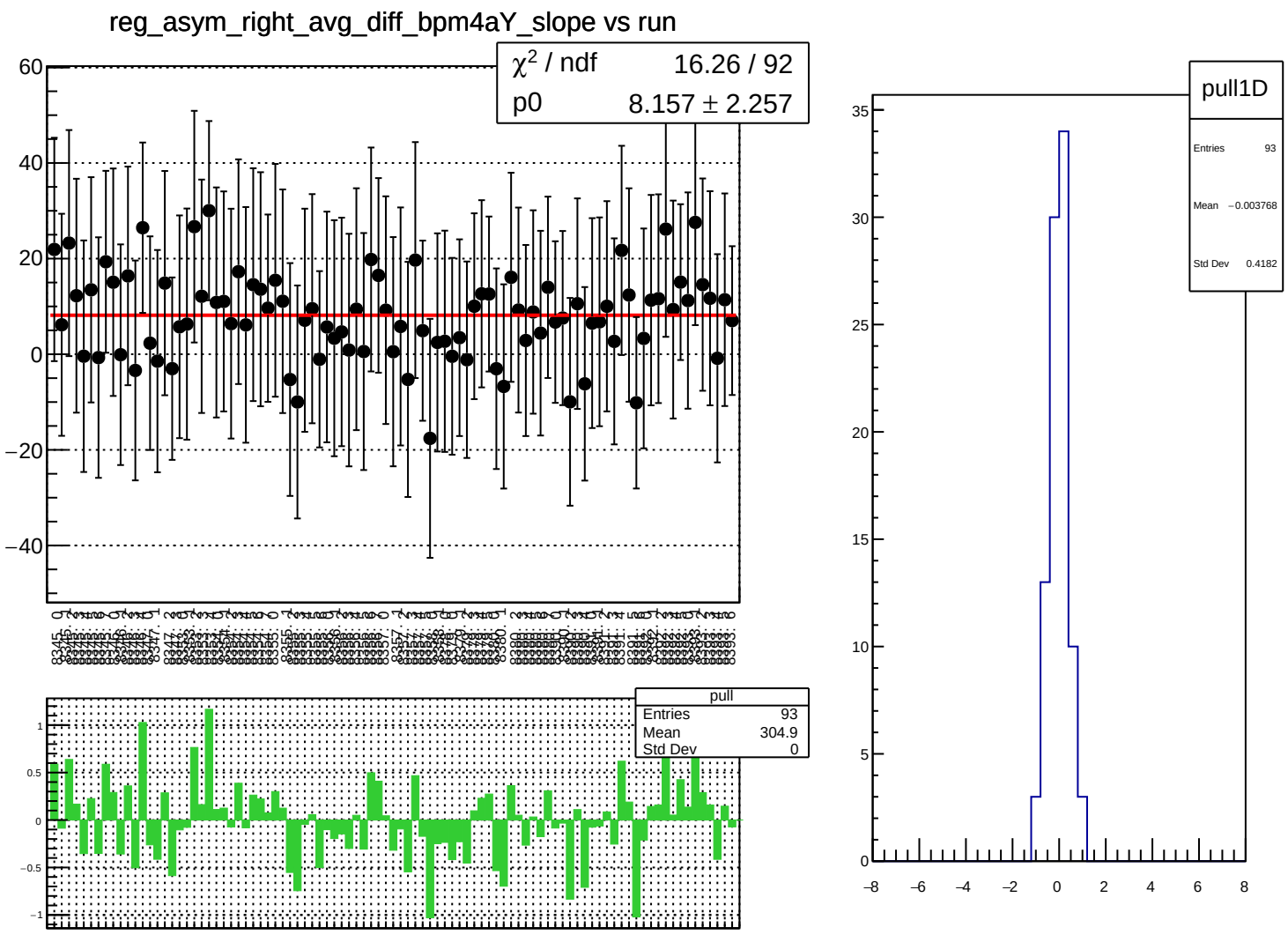

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 49.25 / 92
p0 6.64 ± 1.131
pull
Entries 93
Mean −153.5
Std Dev 0

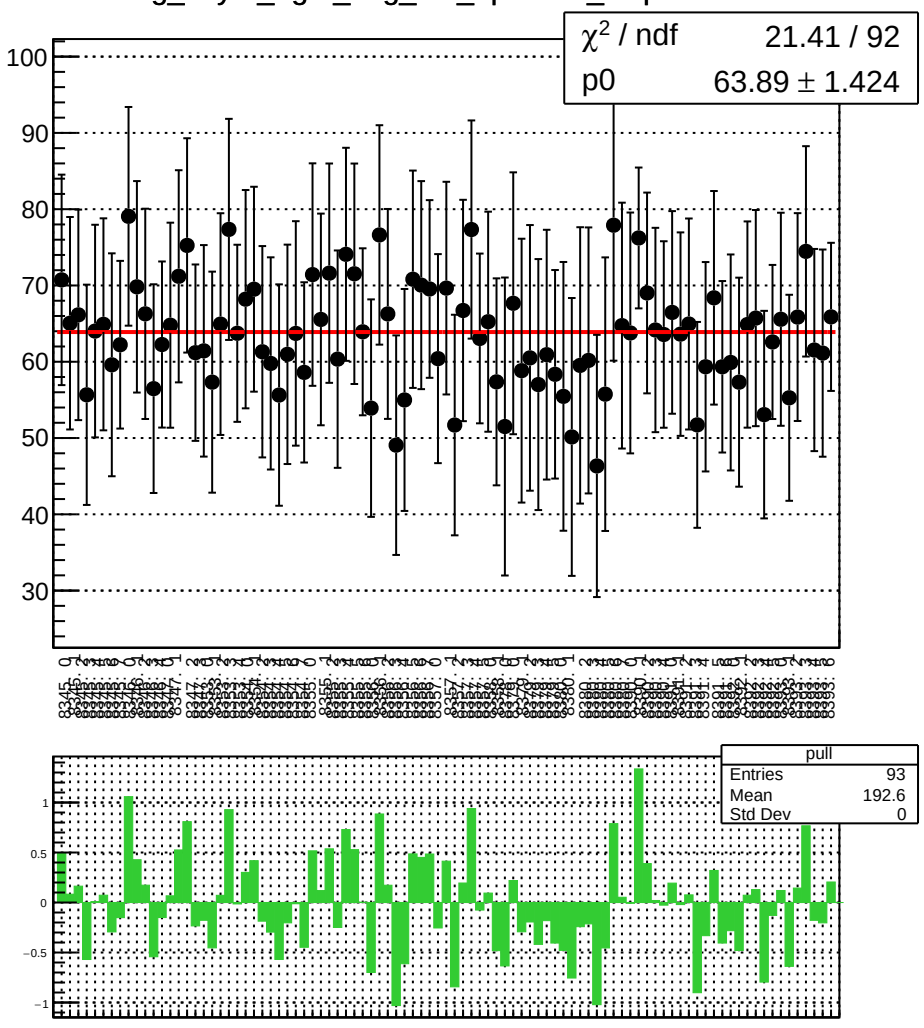

pull1D
Entries 93
Mean 0.02162
Std Dev 0.7274

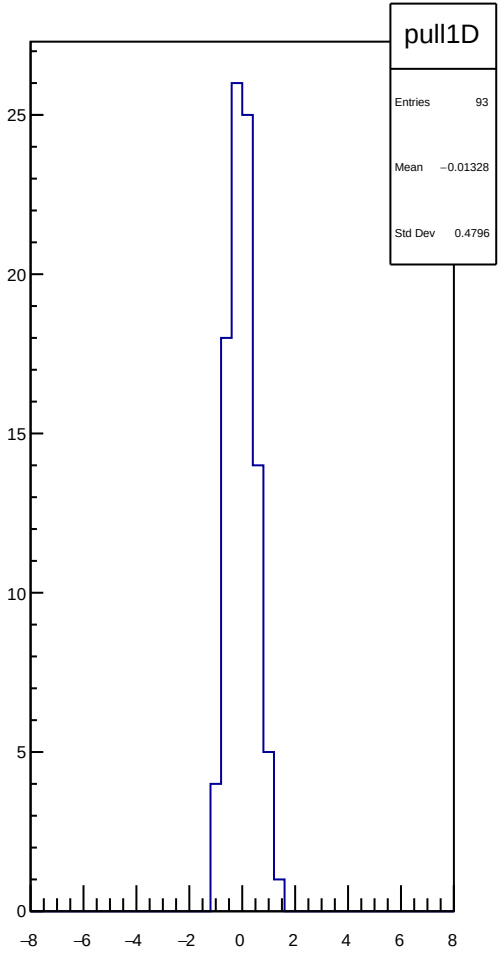

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 237 / 92
p0 −19.24 ± 0.06374
pull
Entries 93
Mean 391.6
Std Dev 0
pull1D
Entries 93
Mean 0.04114
Std Dev 1.596

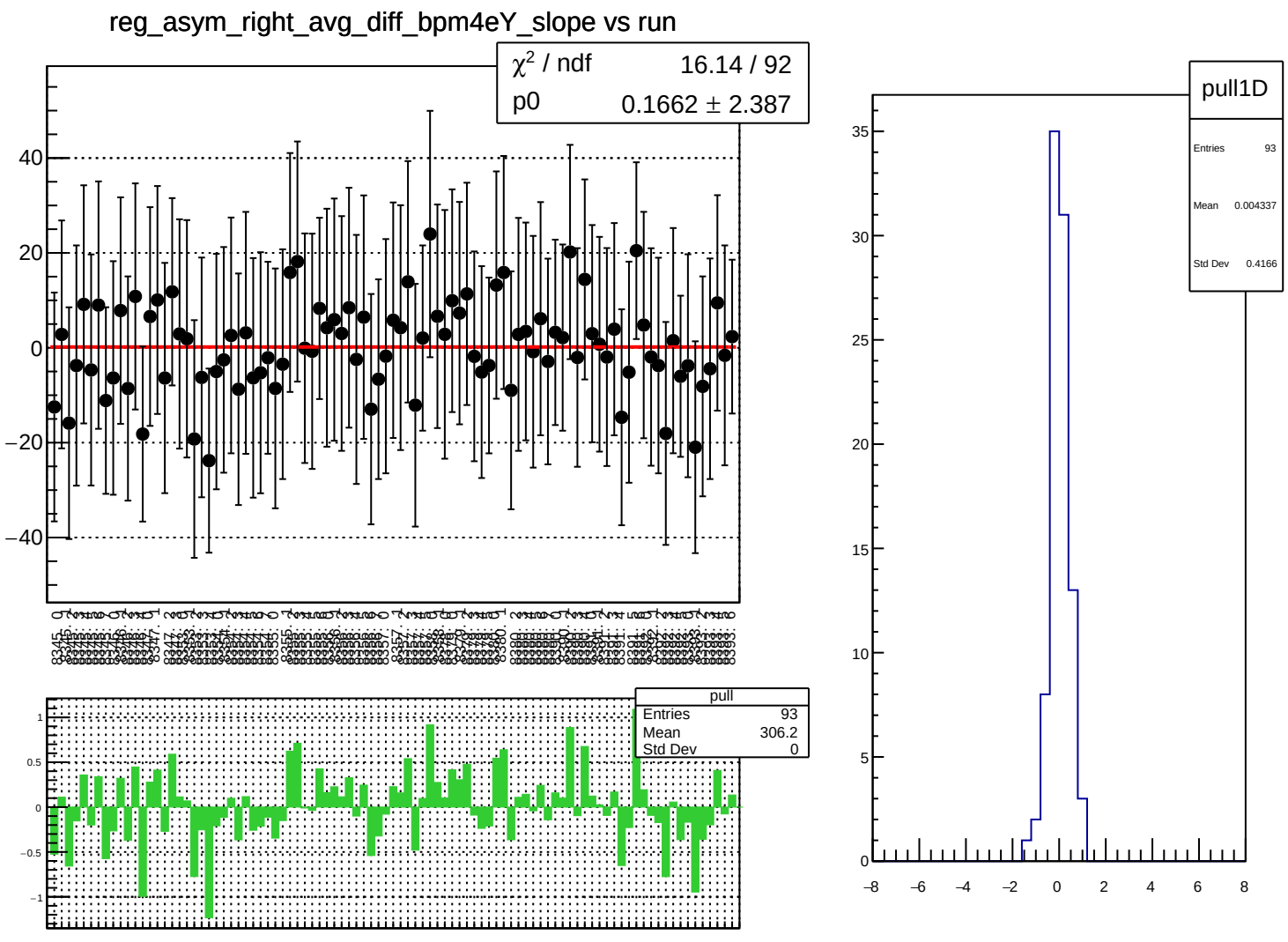

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 23.87 / 92
p0 −38.97 ± 1.295
pull
Entries 93
Mean 126.6
Std Dev 0

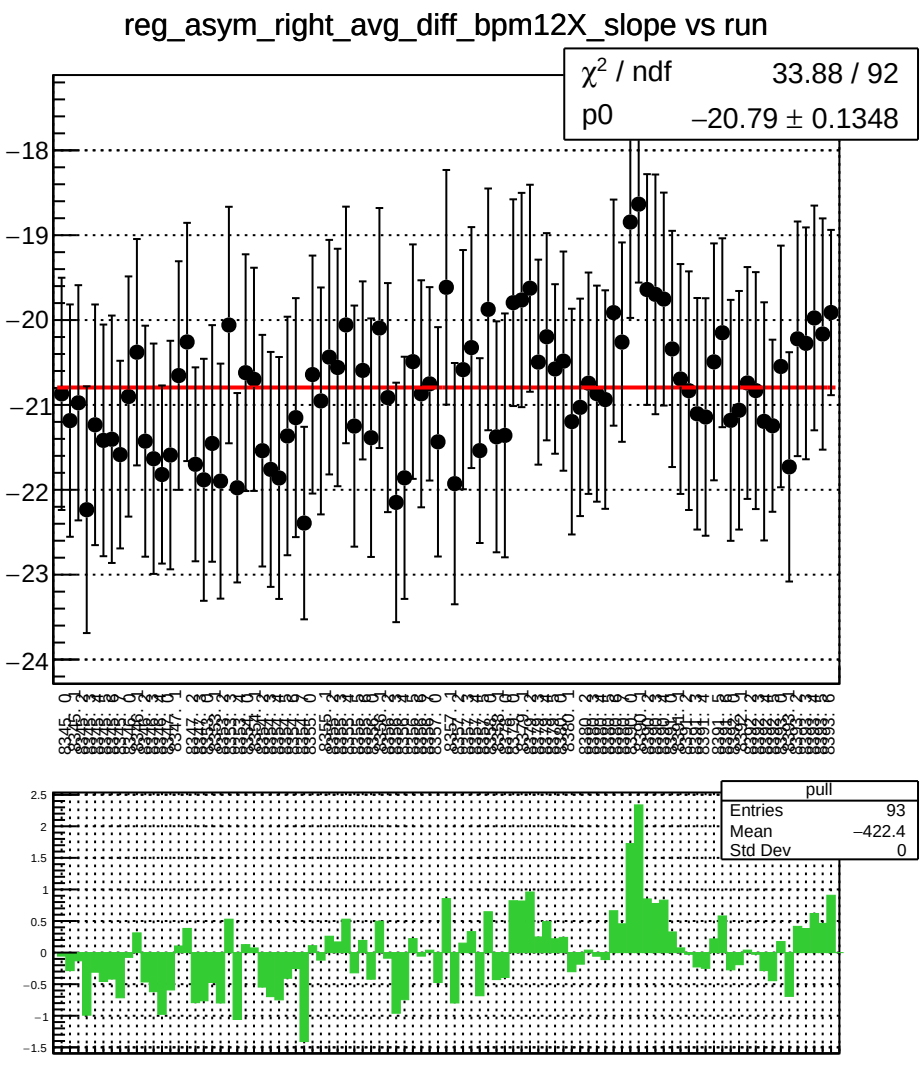

pull1D
Entries 93
Mean 0.03488
Std Dev 0.5054

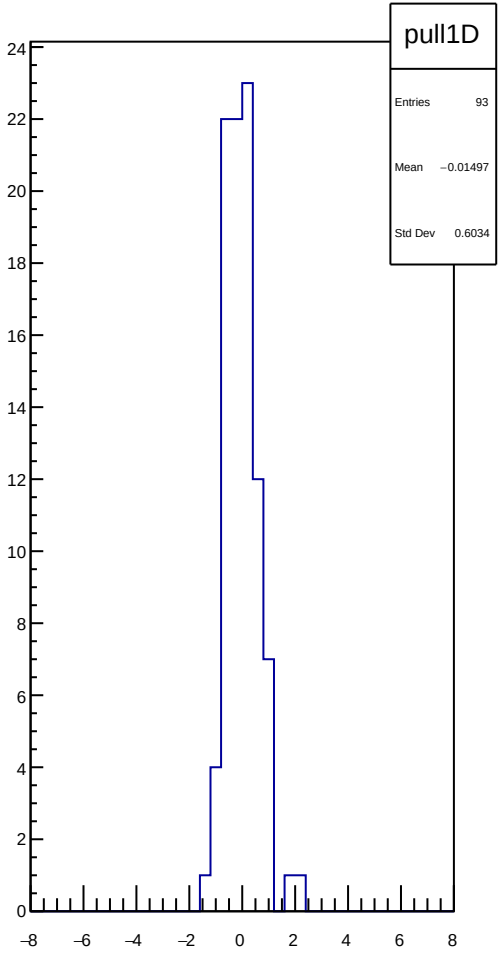

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 16.26 / 92
p0 8.157 ± 2.257
pull
Entries 93
Mean 304.9
Std Dev 0
pull1D
Entries 93
Mean −0.003768
Std Dev 0.4182

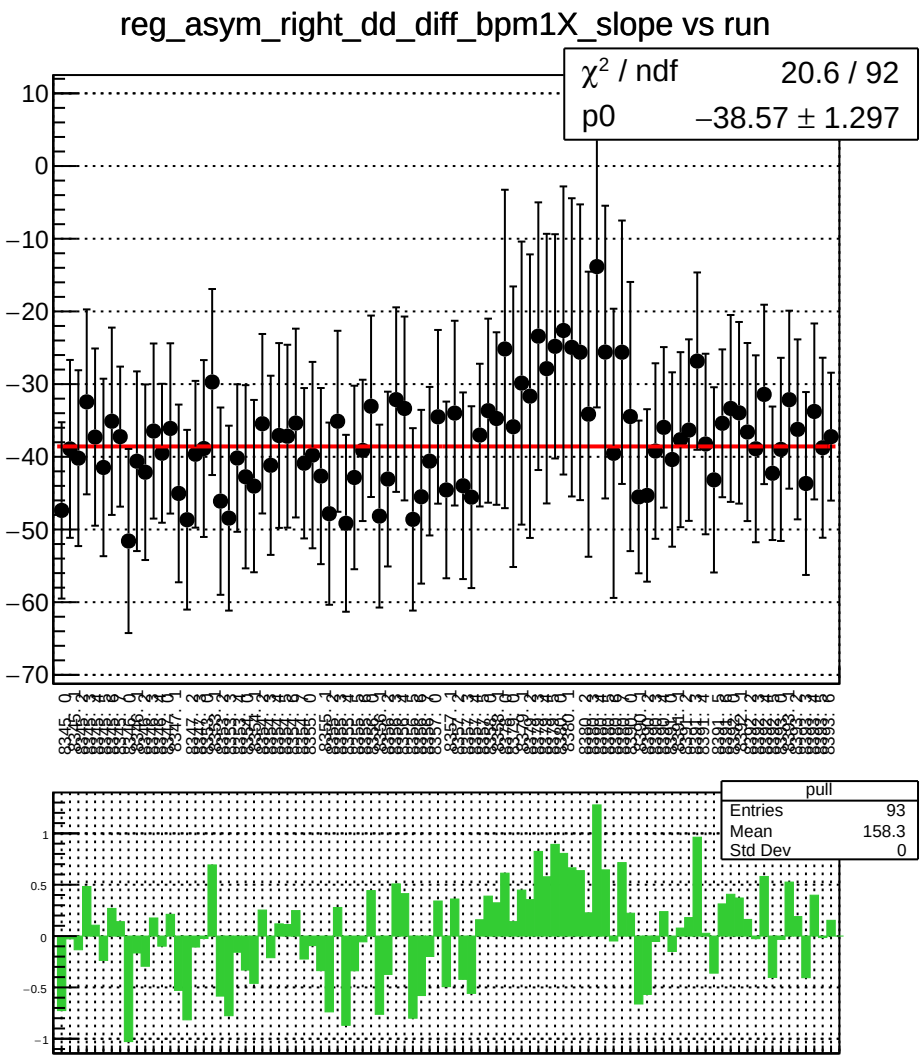

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 21.41 / 92
p0 63.89 ± 1.424
pull
Entries 93
Mean 192.6
Std Dev 0

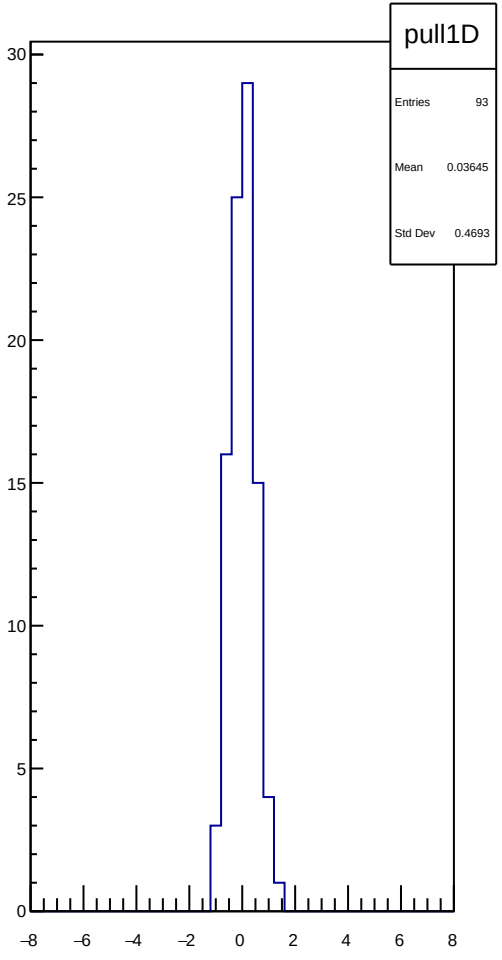

pull1D
Entries 93
Mean −0.01328
Std Dev 0.4796

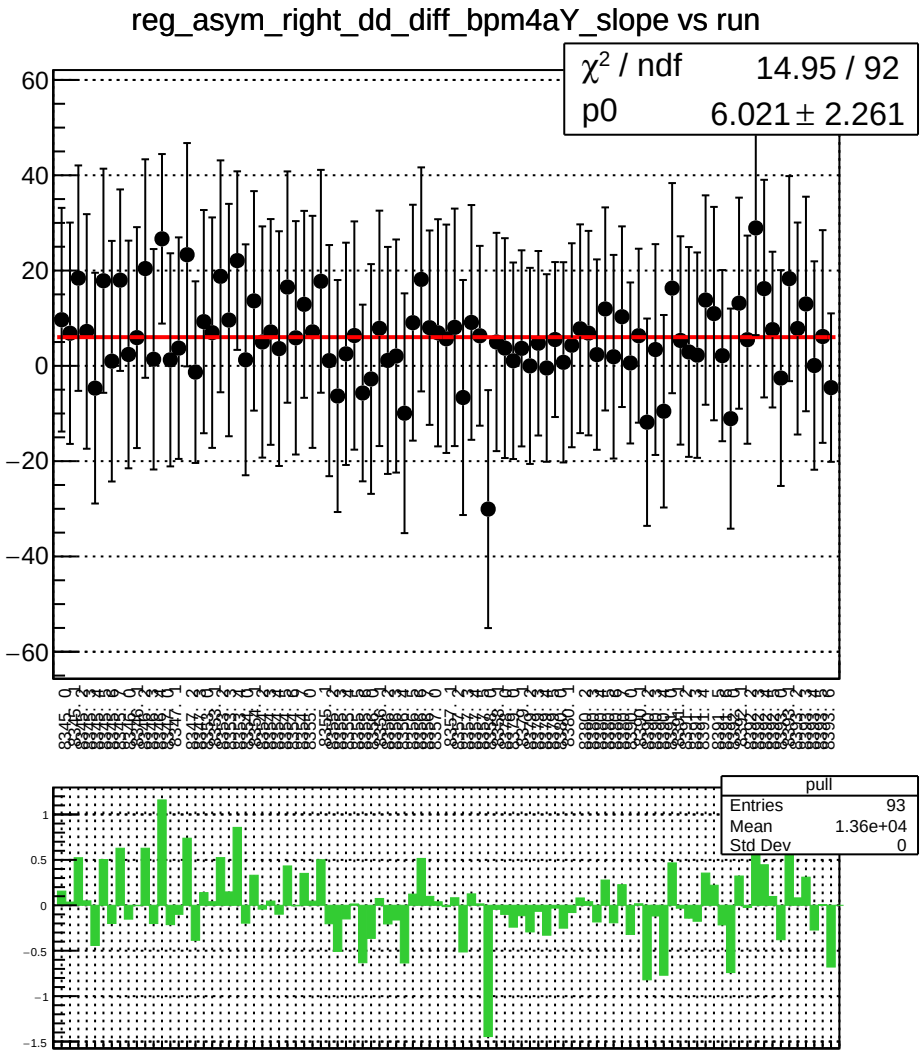

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 16.14 / 92
p0 0.1662 ± 2.387
pull
Entries 93
Mean 306.2
Std Dev 0
pull1D
Entries 93
Mean 0.004337
Std Dev 0.4166

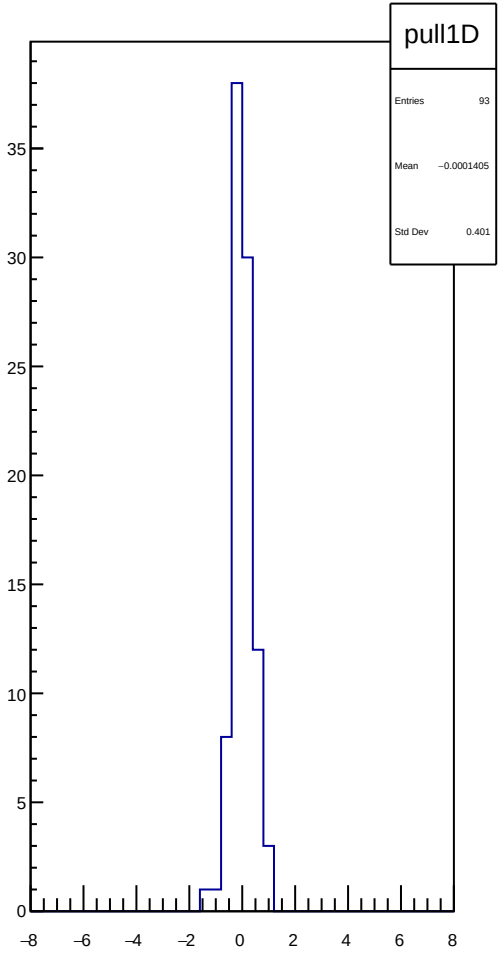

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 33.88 / 92
p0 −20.79 ± 0.1348
pull
Entries 93
Mean −422.4
Std Dev 0

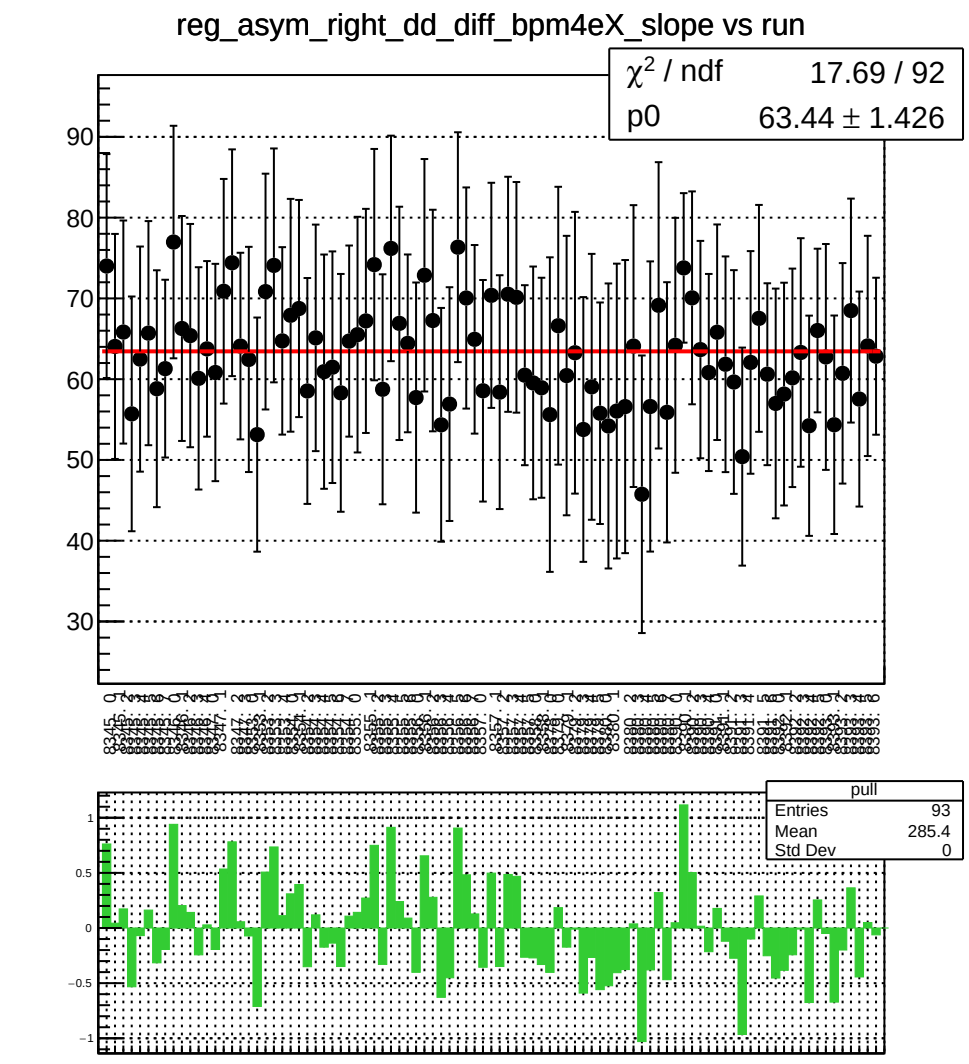

pull1D
Entries 93
Mean −0.01497
Std Dev 0.6034

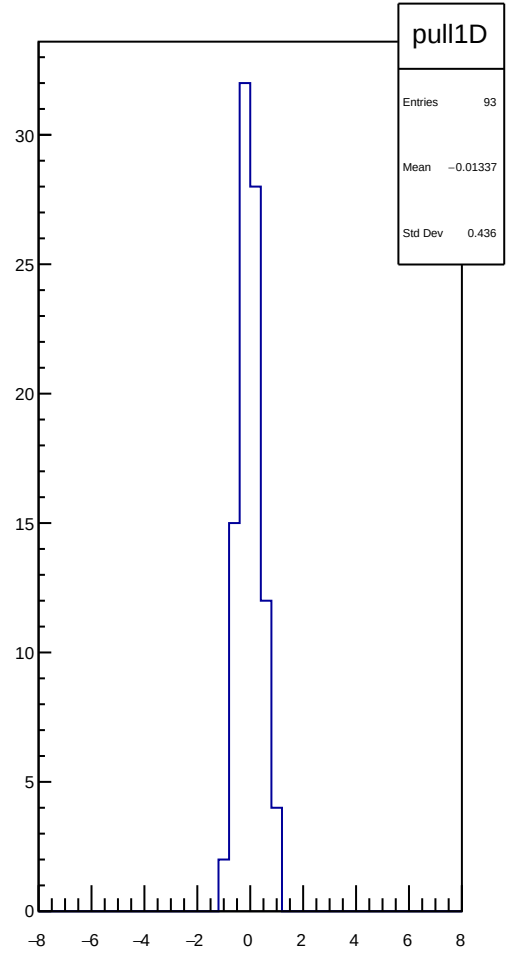

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 20.6 / 92
p0 −38.57 ± 1.297
pull
Entries 93
Mean 158.3
Std Dev 0

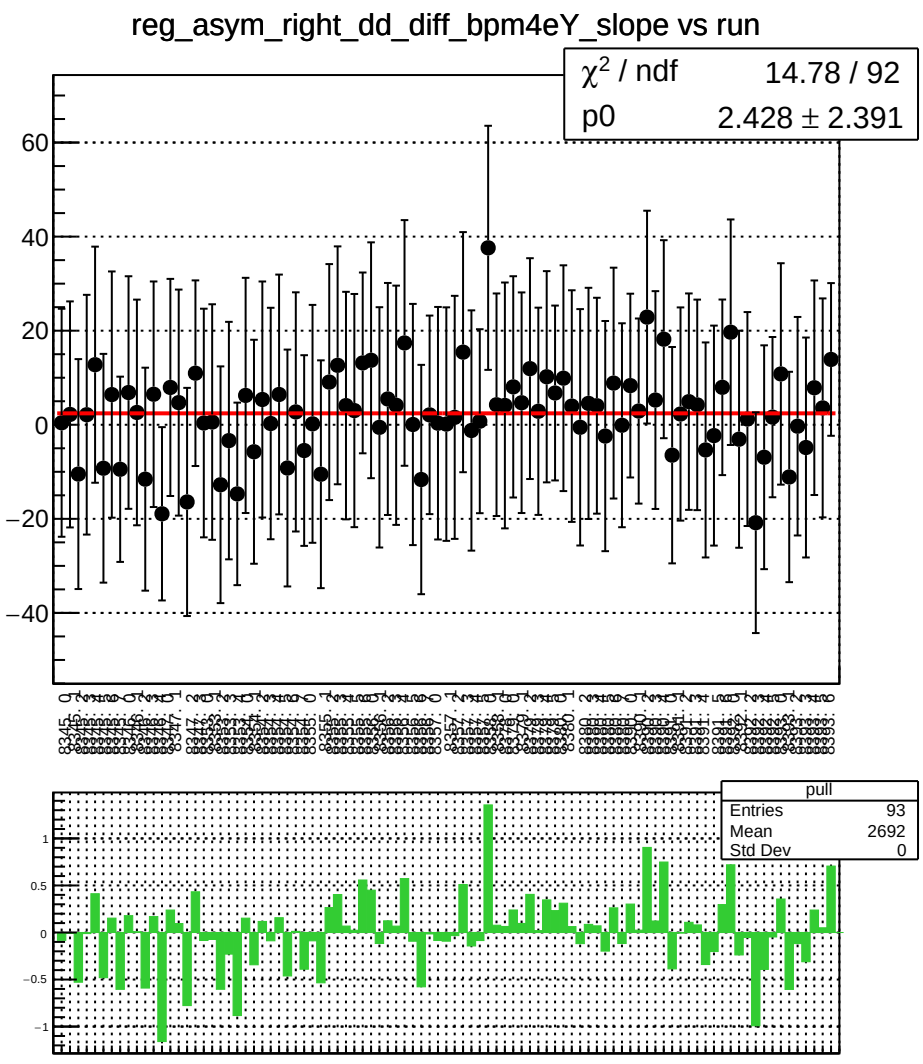

pull1D
Entries 93
Mean 0.03645
Std Dev 0.4693

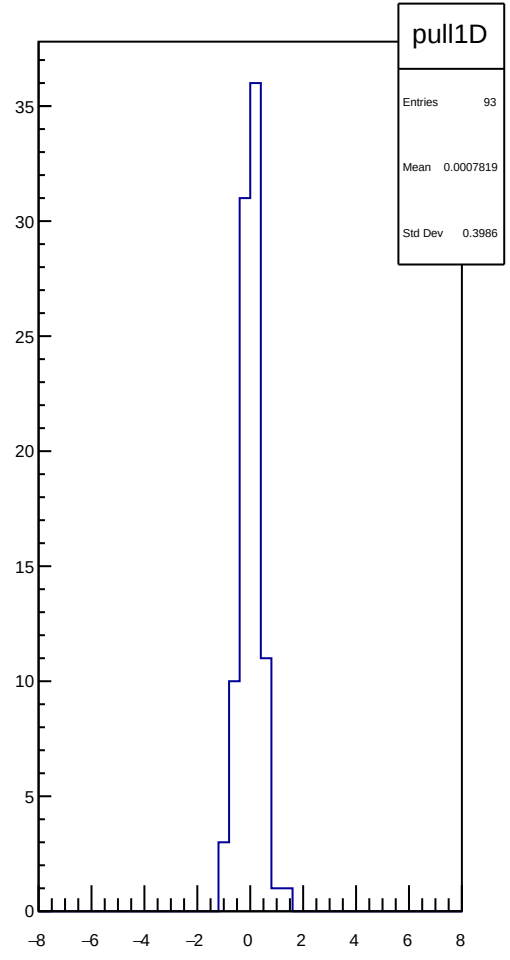

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.95 / 92
p0 6.021 ± 2.261
pull
Entries 93
Mean 1.36e+04
Std Dev 0

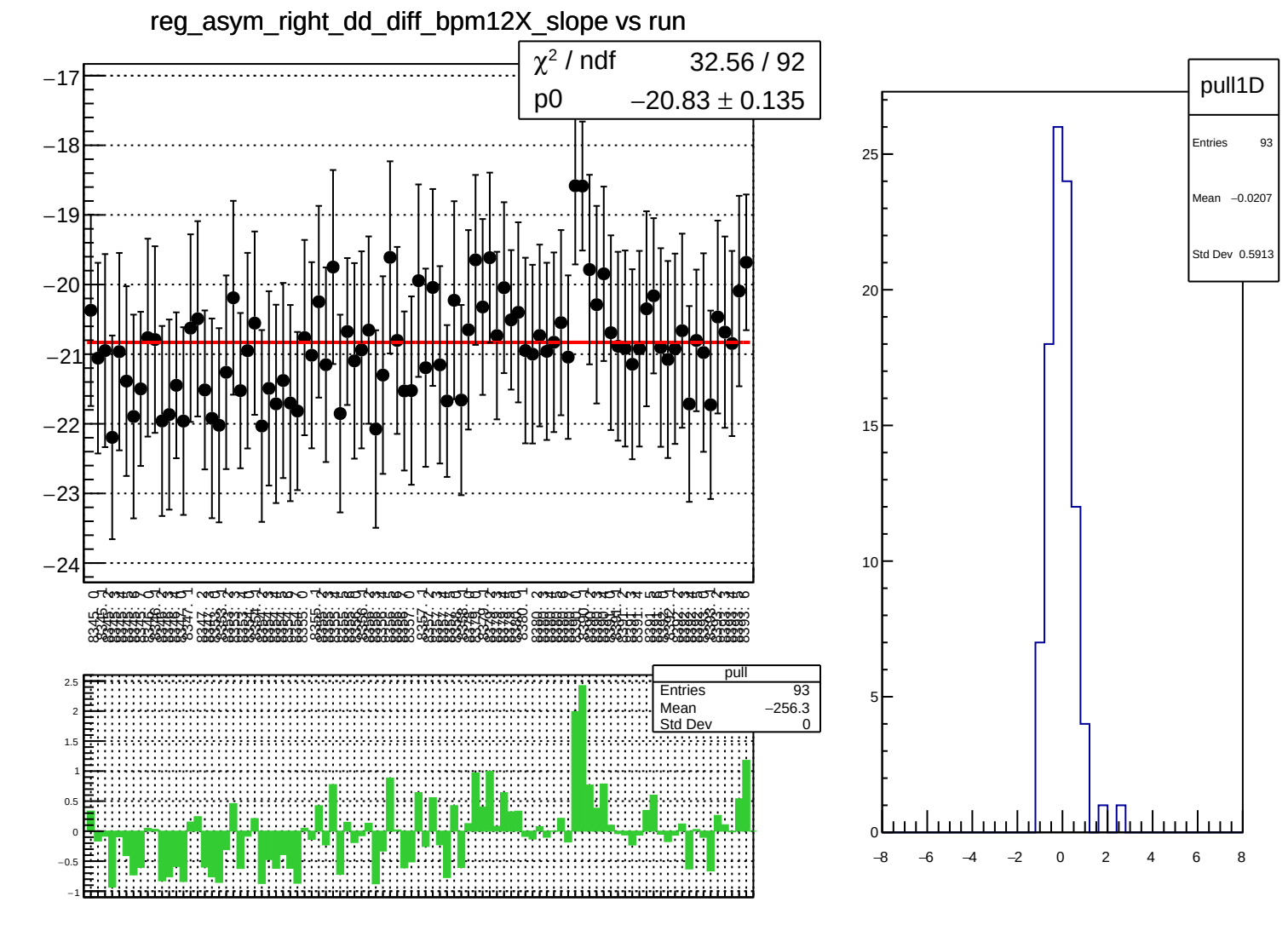

pull1D
Entries 93
Mean −0.0001405
Std Dev 0.401

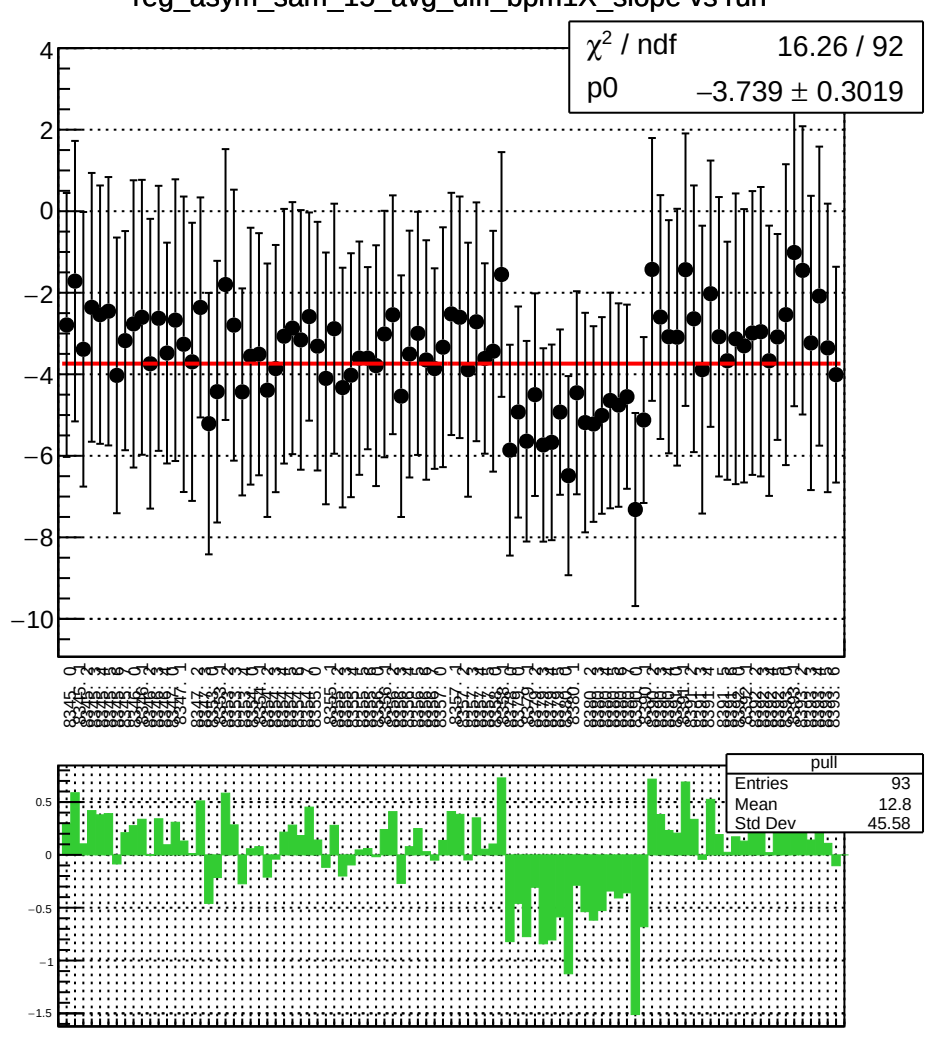

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 17.69 / 92
p0 63.44 ± 1.426
pull
Entries 93
Mean 285.4
Std Dev 0

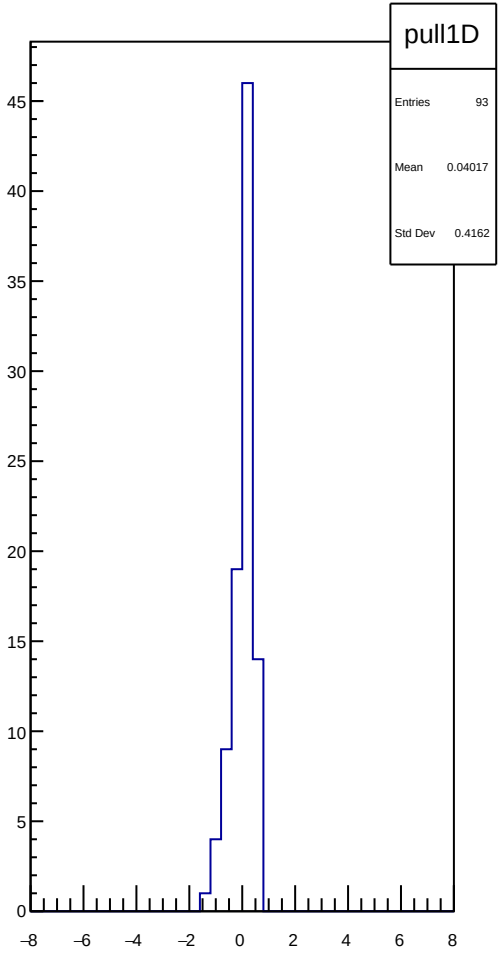

pull1D
Entries 93
Mean −0.01337
Std Dev 0.436

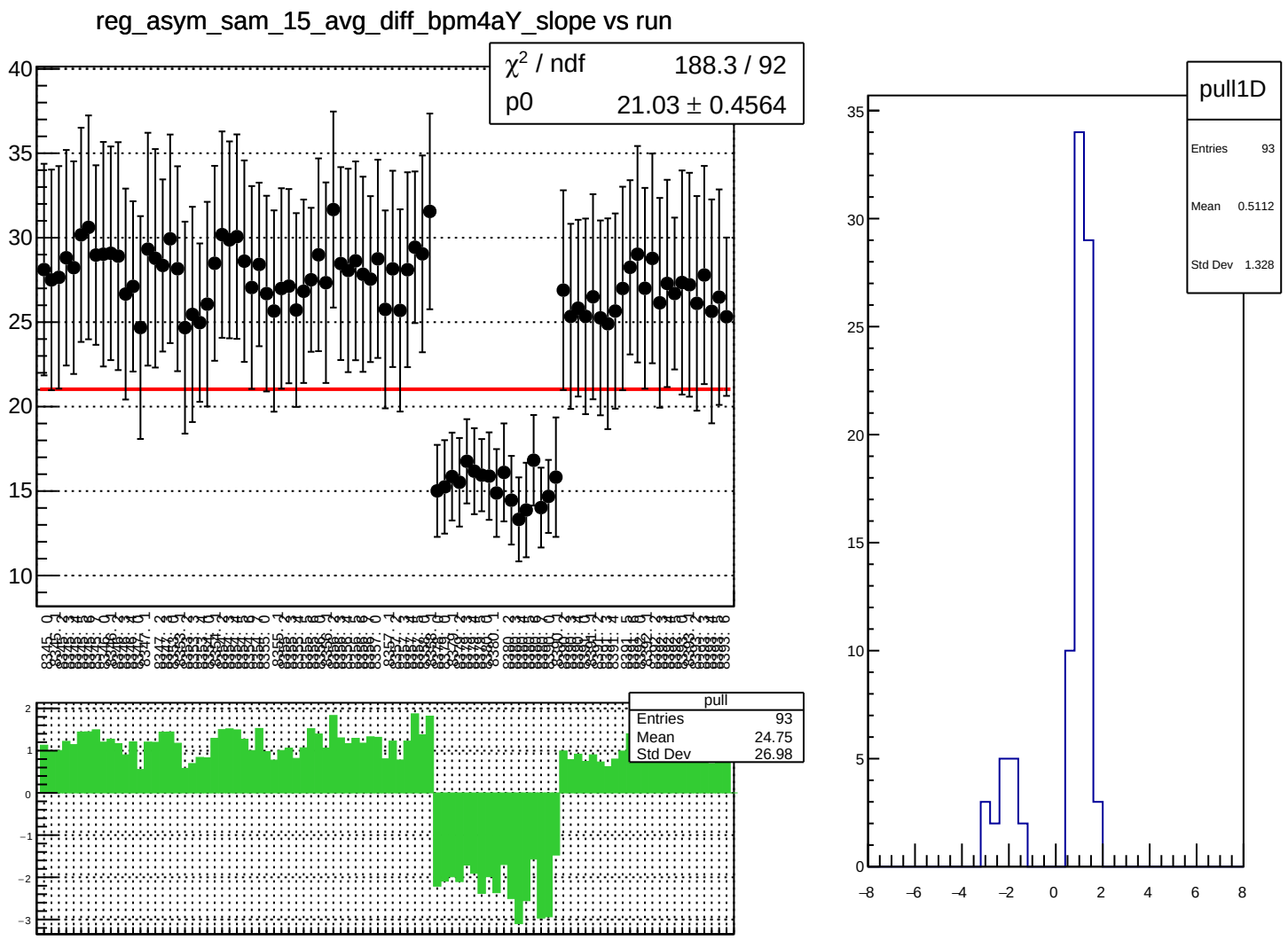

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.78 / 92
p0 2.428 ± 2.391
pull
Entries 93
Mean 2692
Std Dev 0

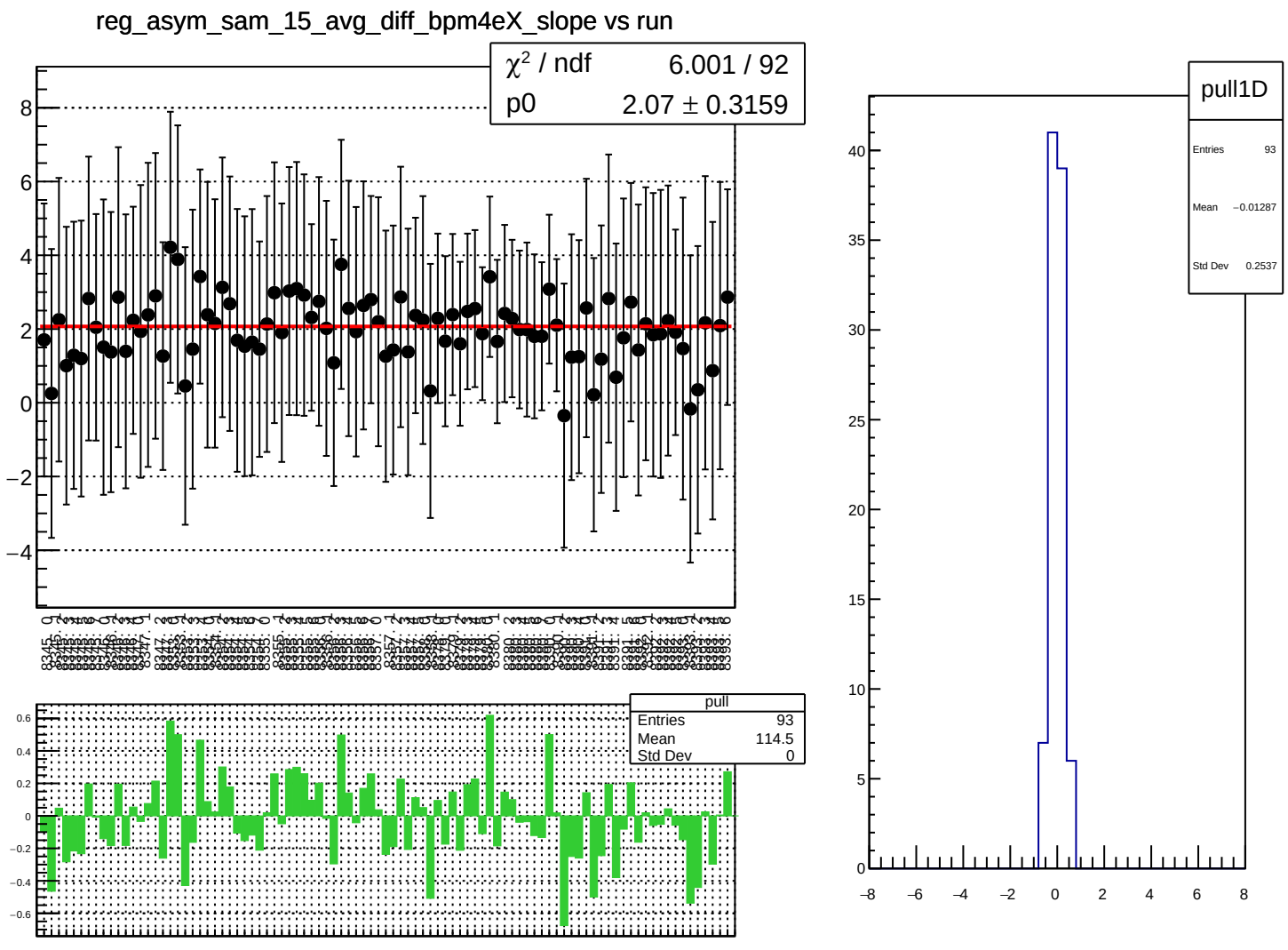

pull1D
Entries 93
Mean 0.0007819
Std Dev 0.3986

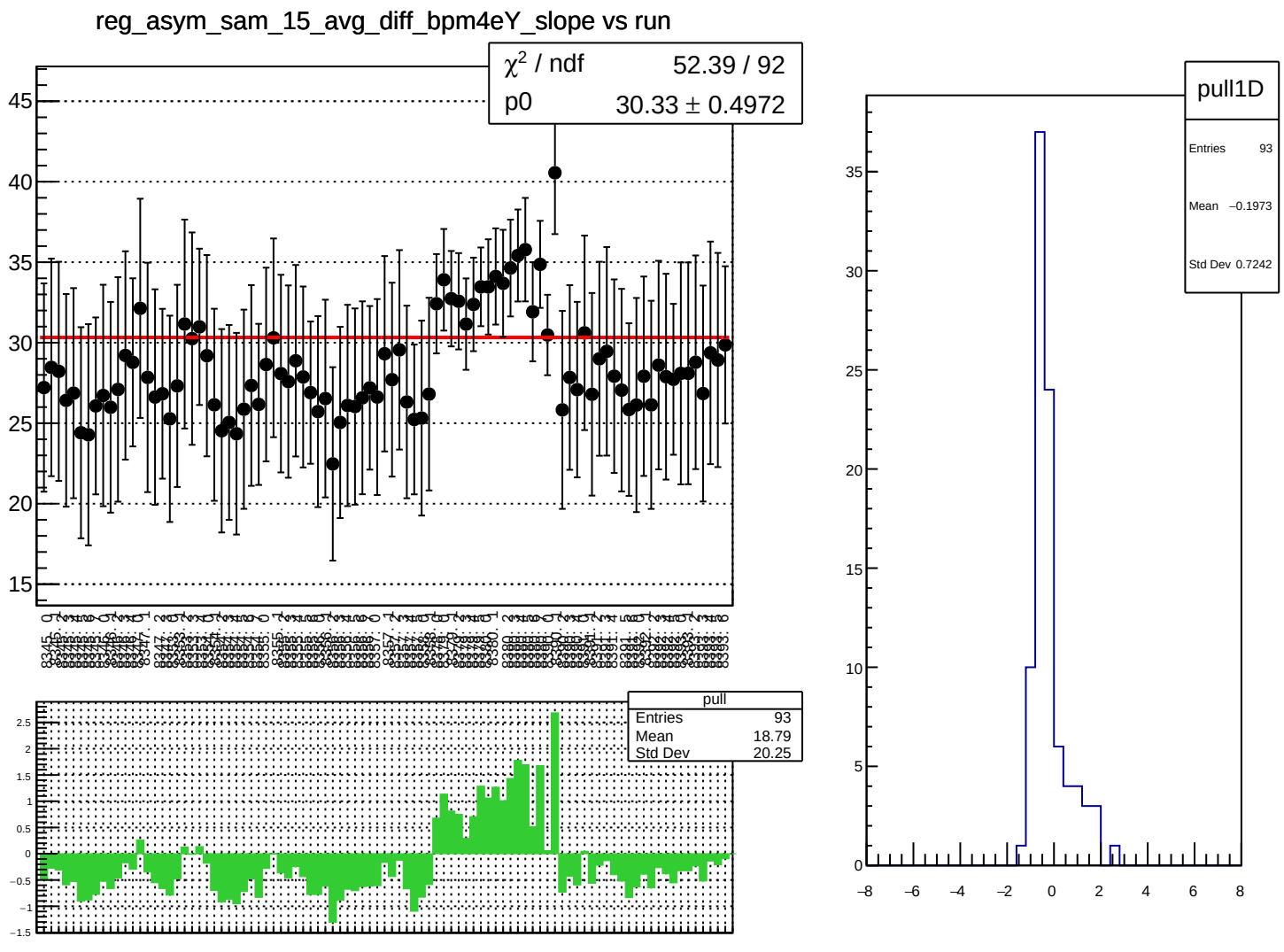

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 32.56 / 92
p0 −20.83 ± 0.135
pull
Entries 93
Mean −256.3
Std Dev 0
pull1D
Entries 93
Mean −0.0207
Std Dev 0.5913

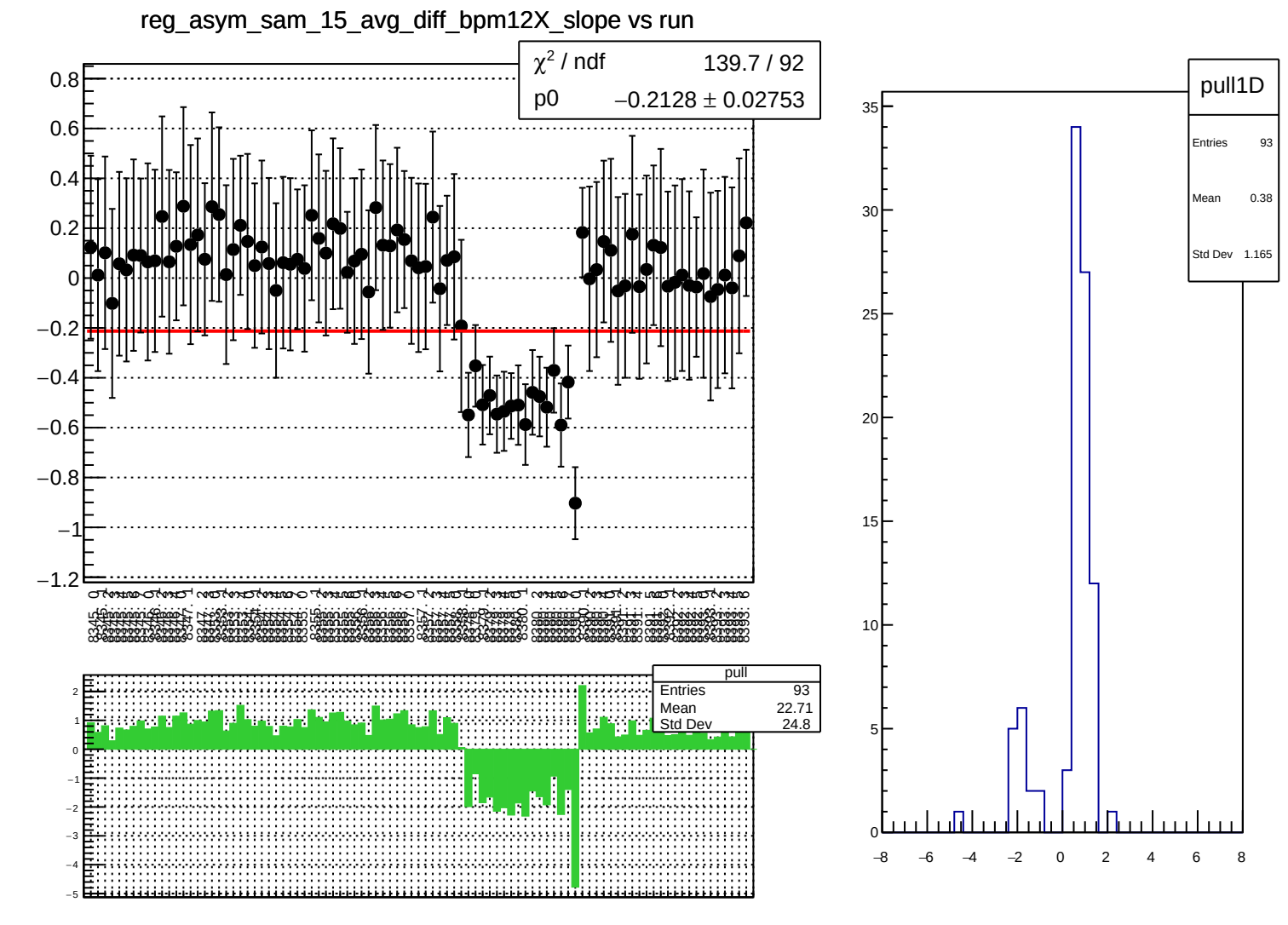

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 16.26 / 92
p0 −3.739 ± 0.3019
pull
Entries 93
Mean 12.8
Std Dev 45.58

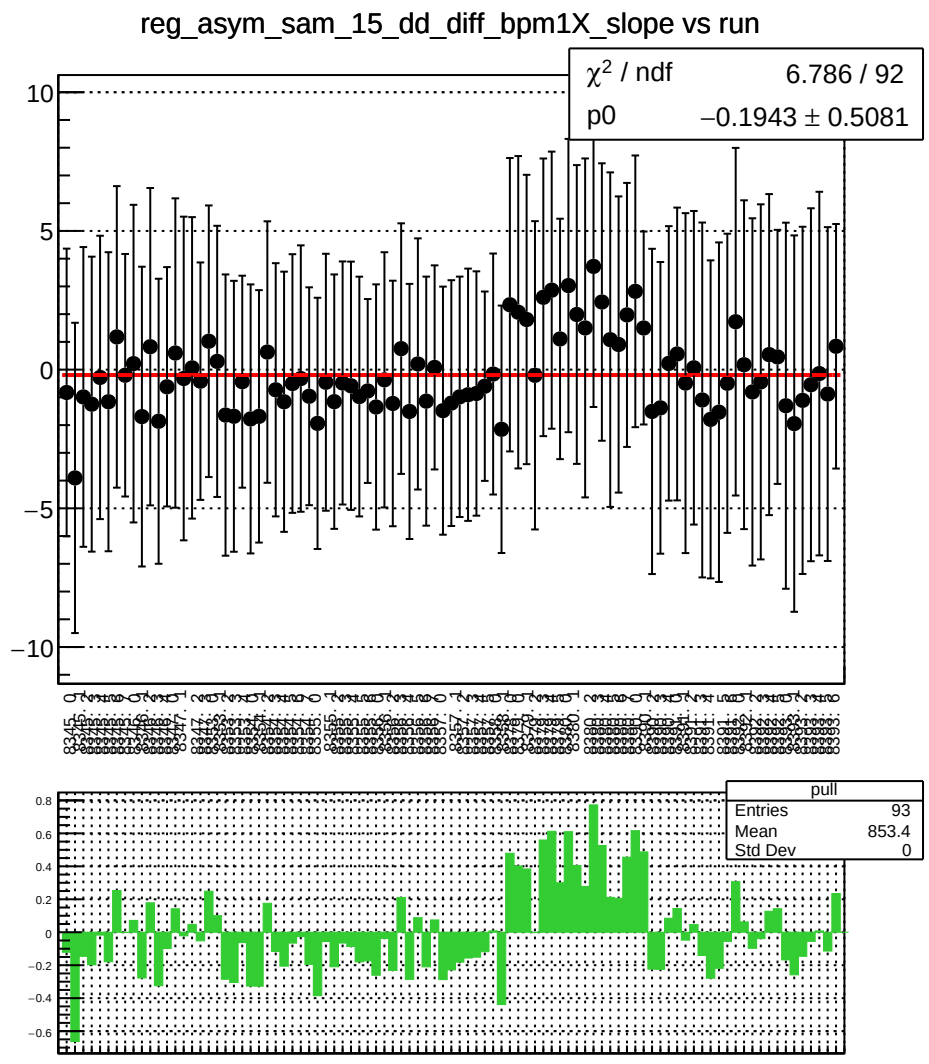

pull1D
Entries 93
Mean 0.04017
Std Dev 0.4162

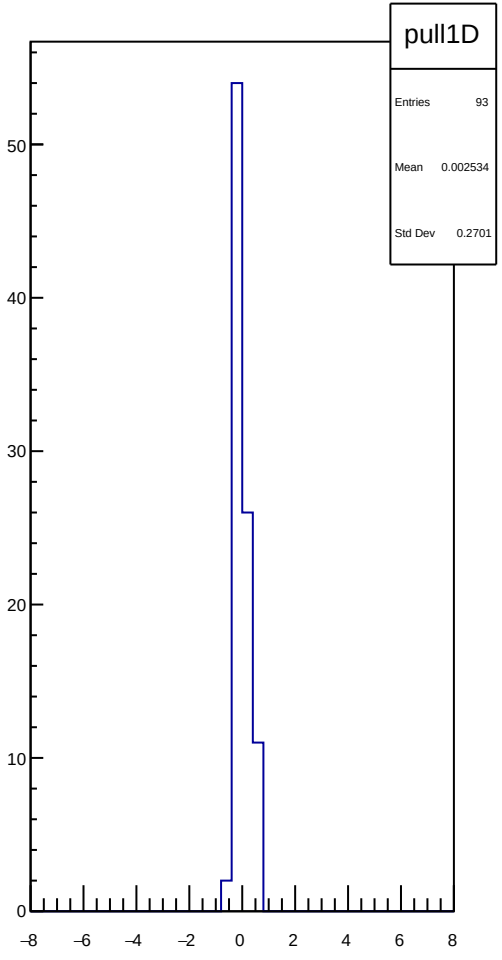

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 188.3 / 92
p0 21.03 ± 0.4564
pull
Entries 93
Mean 24.75
Std Dev 26.98
pull1D
Entries 93
Mean 0.5112
Std Dev 1.328

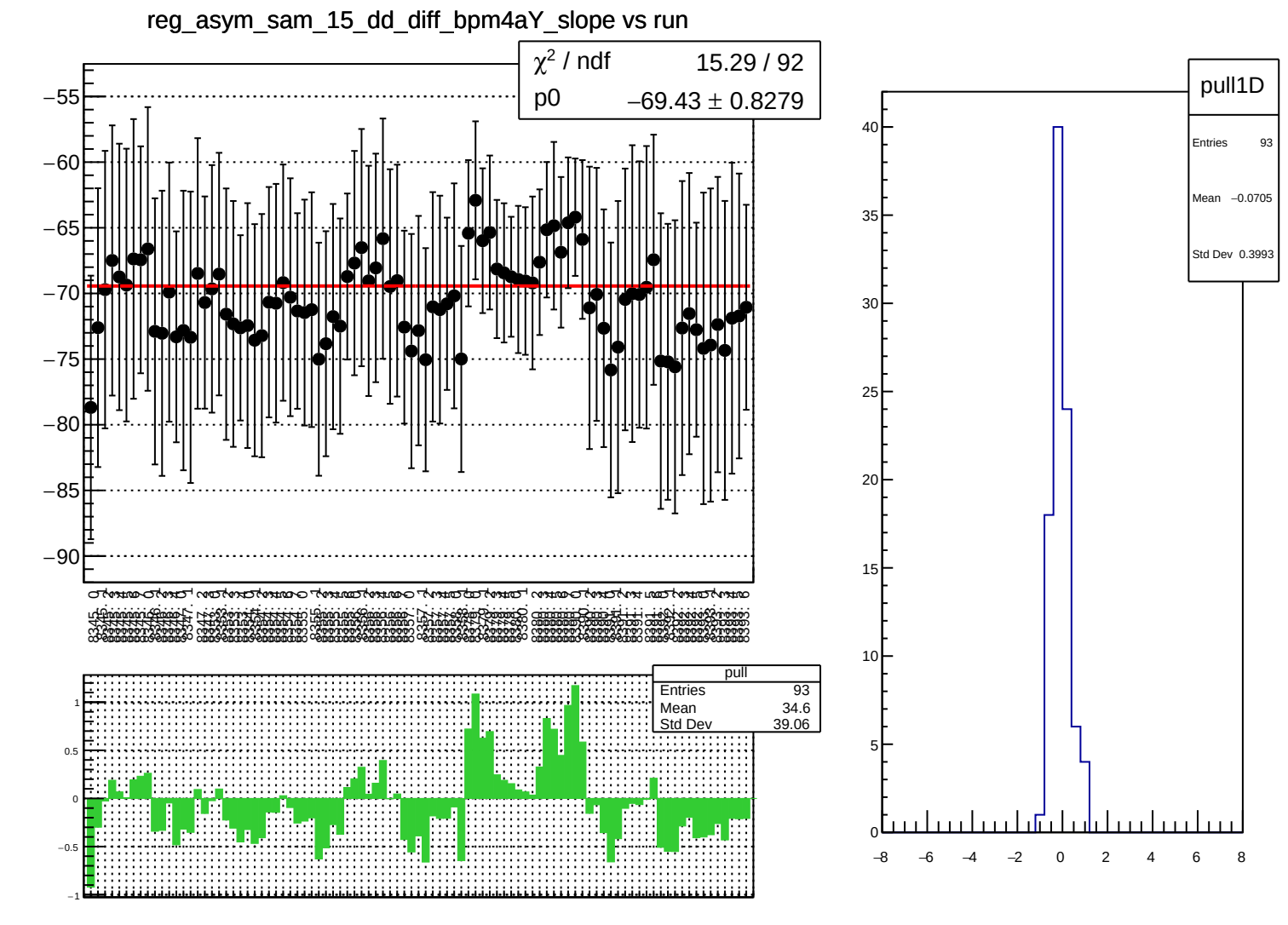

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.001 / 92
p0 2.07 ± 0.3159
pull
Entries 93
Mean 114.5
Std Dev 0
pull1D
Entries 93
Mean −0.01287
Std Dev 0.2537

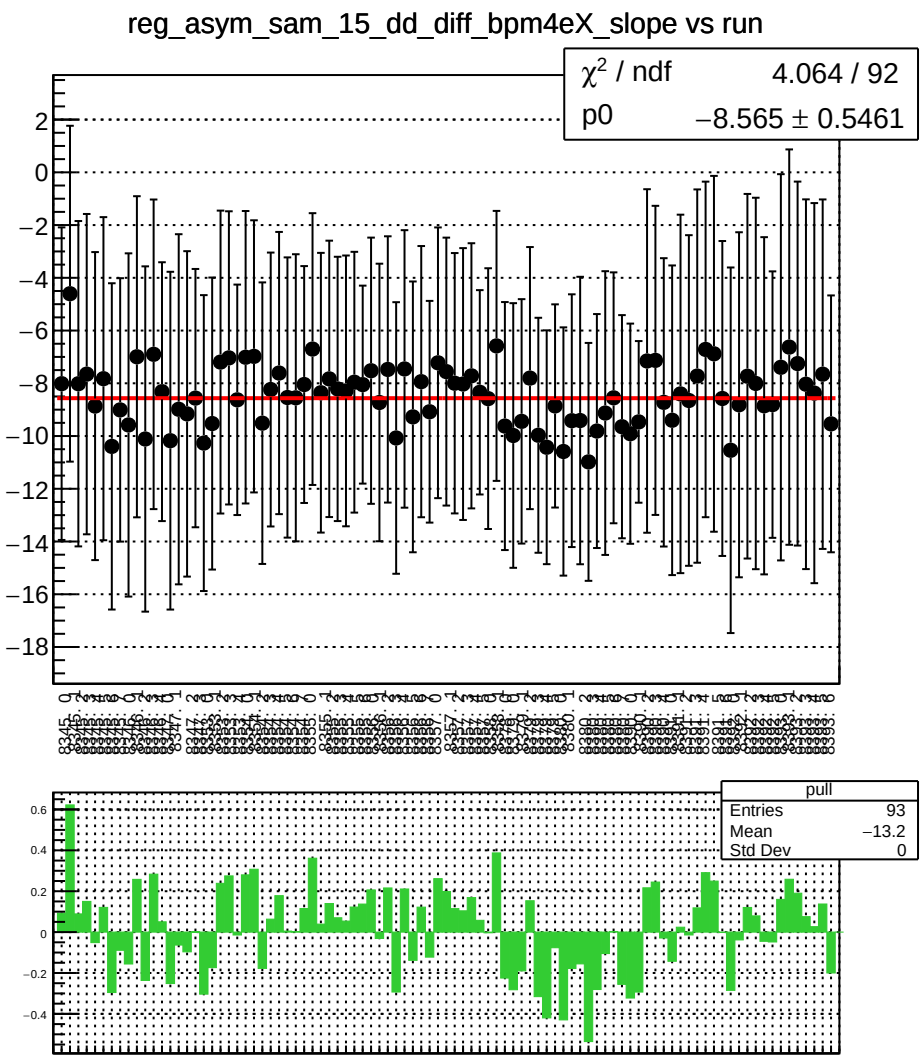

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 52.39 / 92
p0 30.33 ± 0.4972
pull
Entries 93
Mean 18.79
Std Dev 20.25
pull1D
Entries 93
Mean −0.1973
Std Dev 0.7242

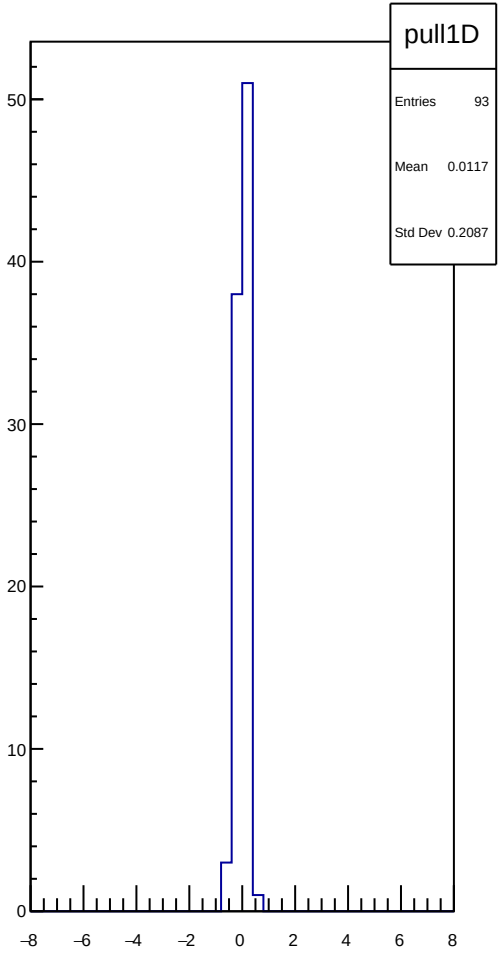

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 139.7 / 92
p0 −0.2128 ± 0.02753
pull
Entries 93
Mean 22.71
Std Dev 24.8
pull1D
Entries 93
Mean 0.38
Std Dev 1.165

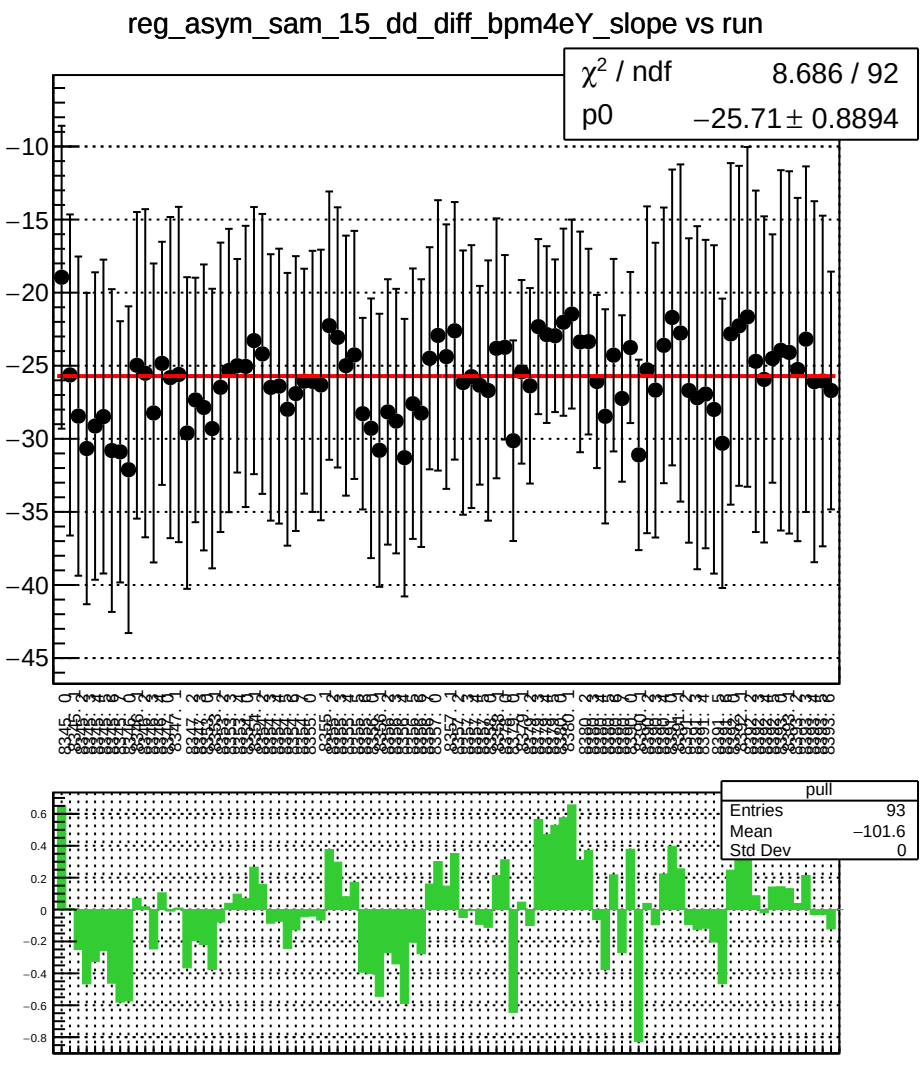

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 6.786 / 92
p0 −0.1943 ± 0.5081
pull
Entries 93
Mean 853.4
Std Dev 0

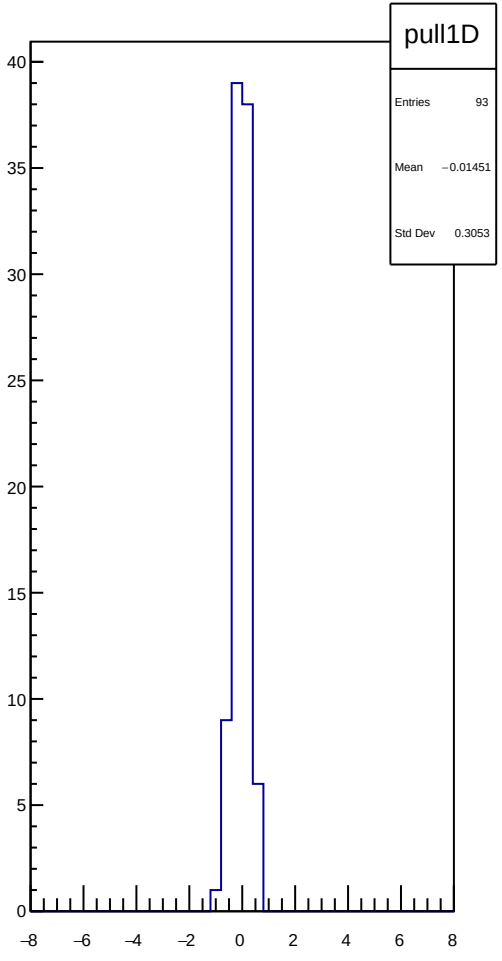

pull1D
Entries 93
Mean 0.002534
Std Dev 0.2701

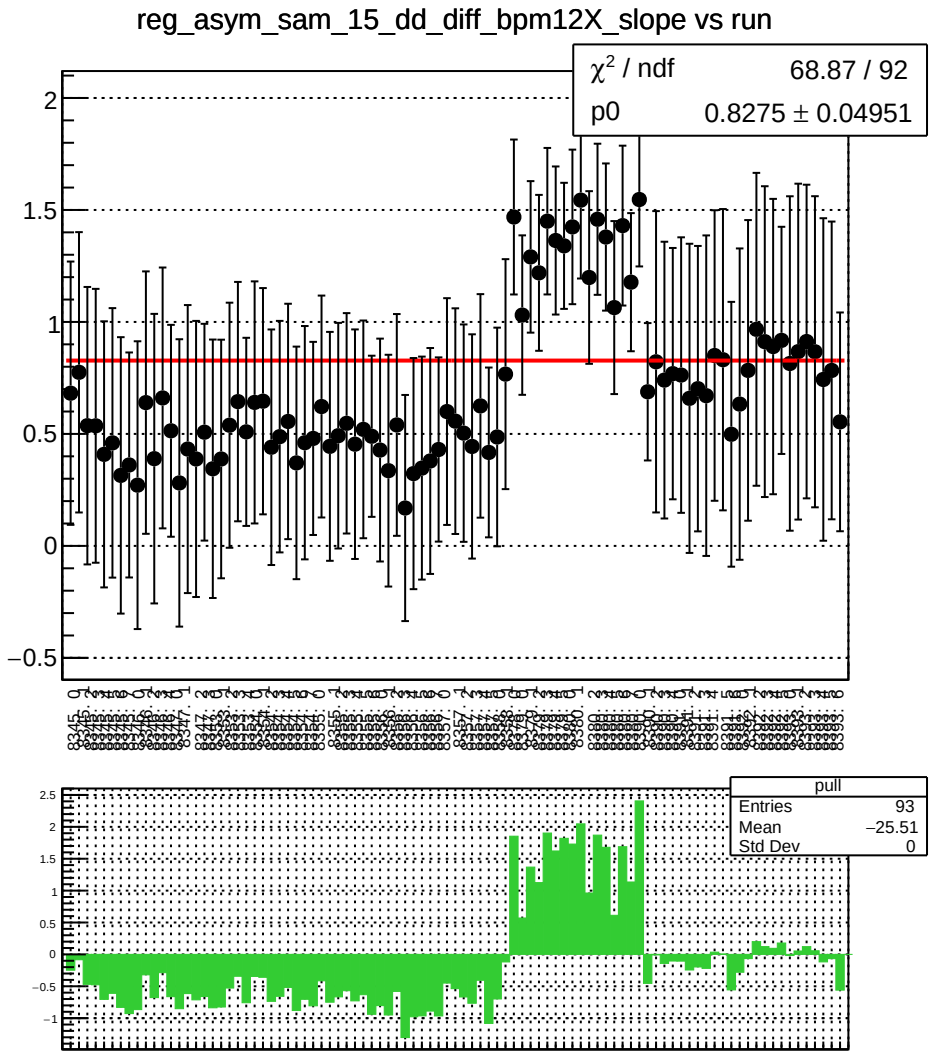

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 15.29 / 92
p0 −69.43 ± 0.8279
pull
Entries 93
Mean 34.6
Std Dev 39.06
pull1D
Entries 93
Mean −0.0705
Std Dev 0.3993

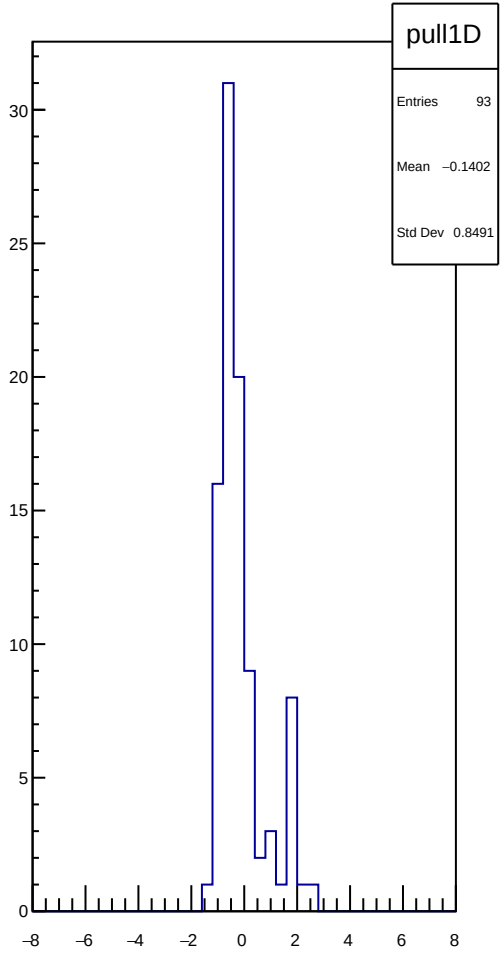

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.064 / 92
p0 −8.565 ± 0.5461
pull
Entries 93
Mean −13.2
Std Dev 0

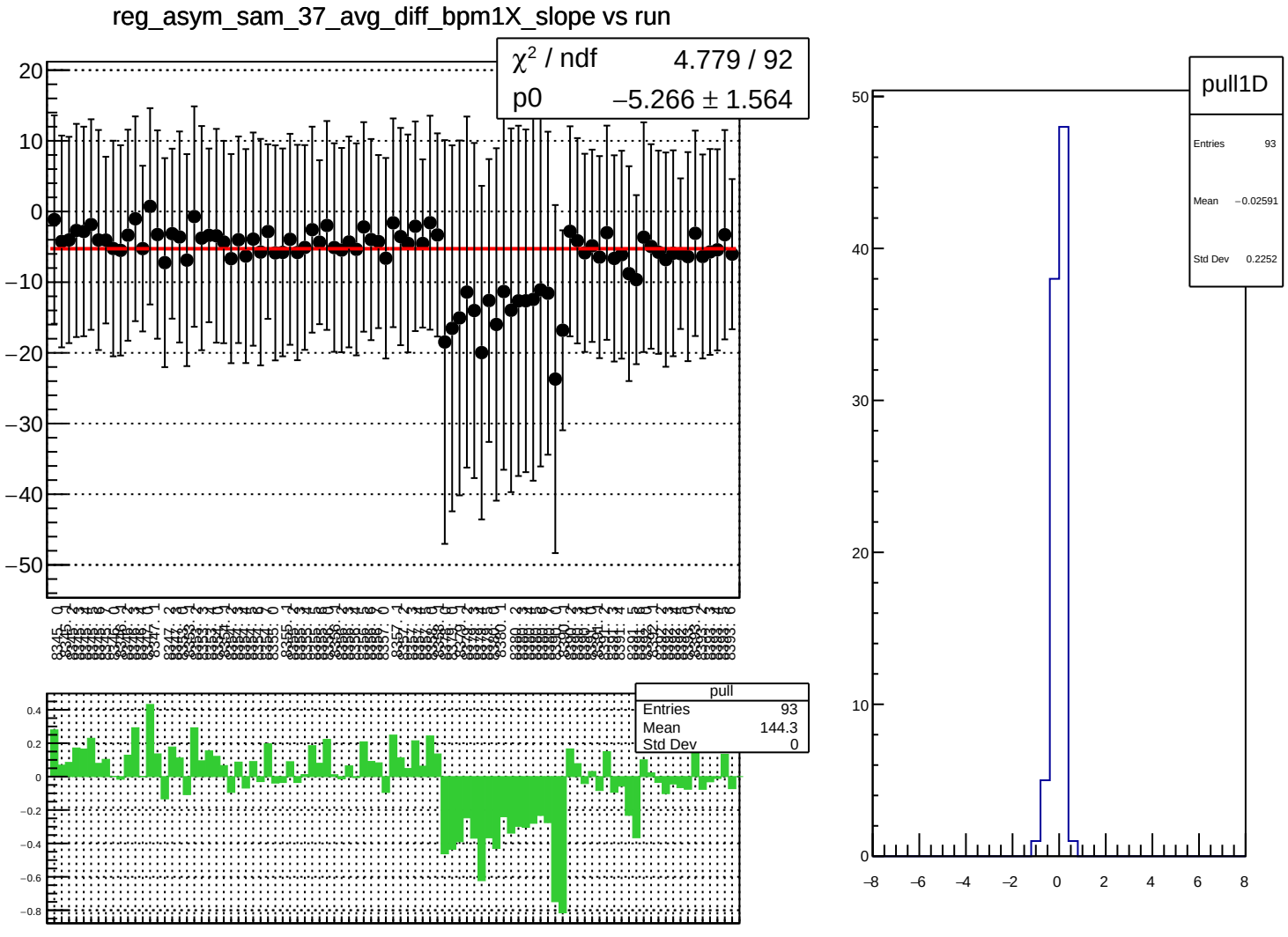

pull1D
Entries 93
Mean 0.0117
Std Dev 0.2087

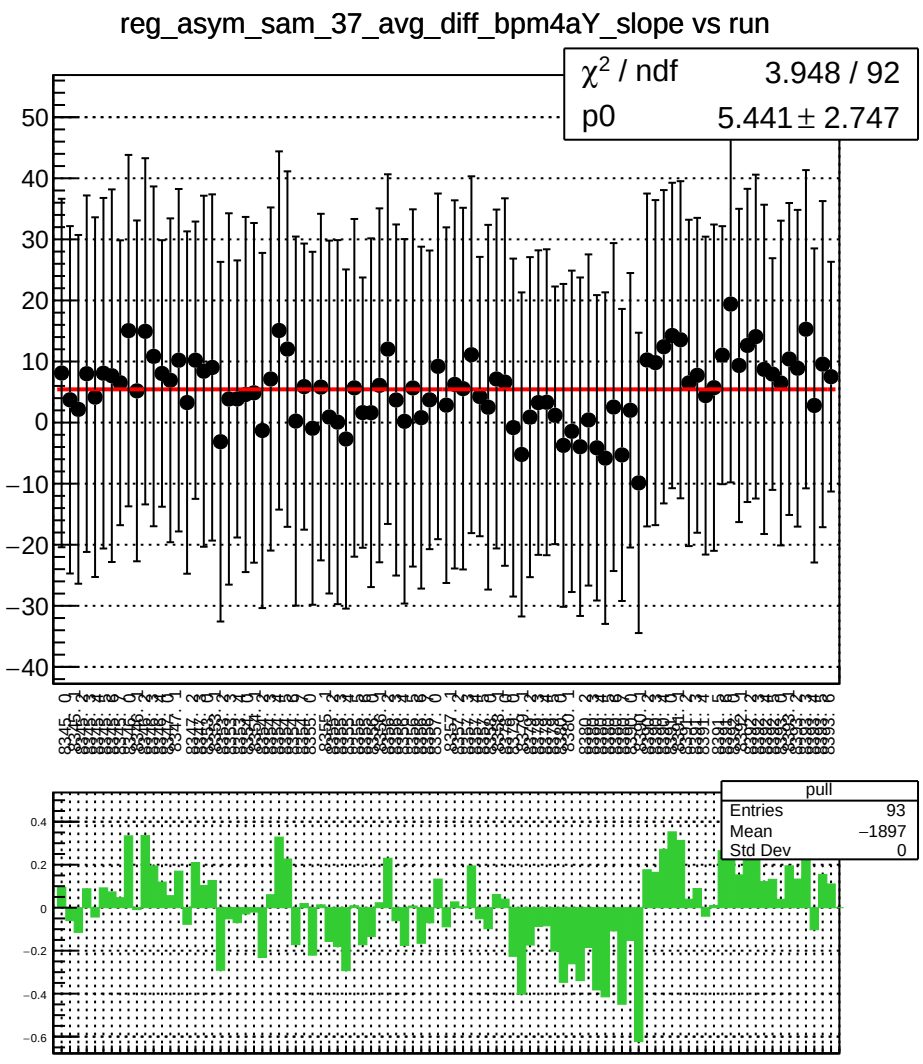

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.686 / 92
p0 −25.71 ± 0.8894
pull
Entries 93
Mean −101.6
Std Dev 0

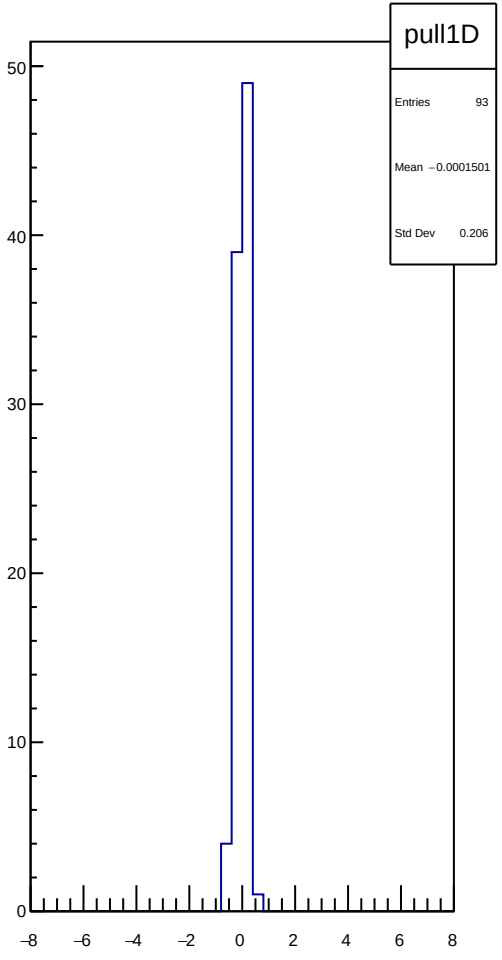

pull1D
Entries 93
Mean −0.01451
Std Dev 0.3053

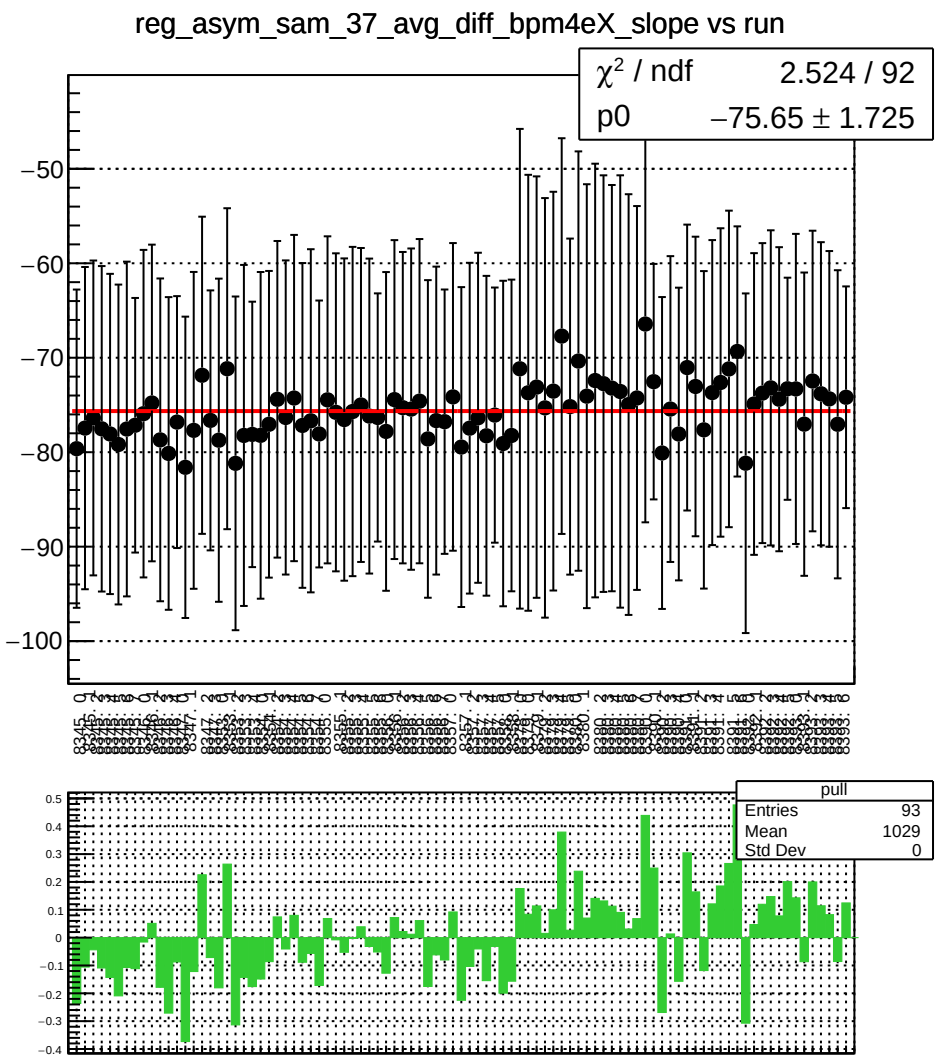

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 68.87 / 92
p0 0.8275 ± 0.04951
pull
Entries 93
Mean −25.51
Std Dev 0

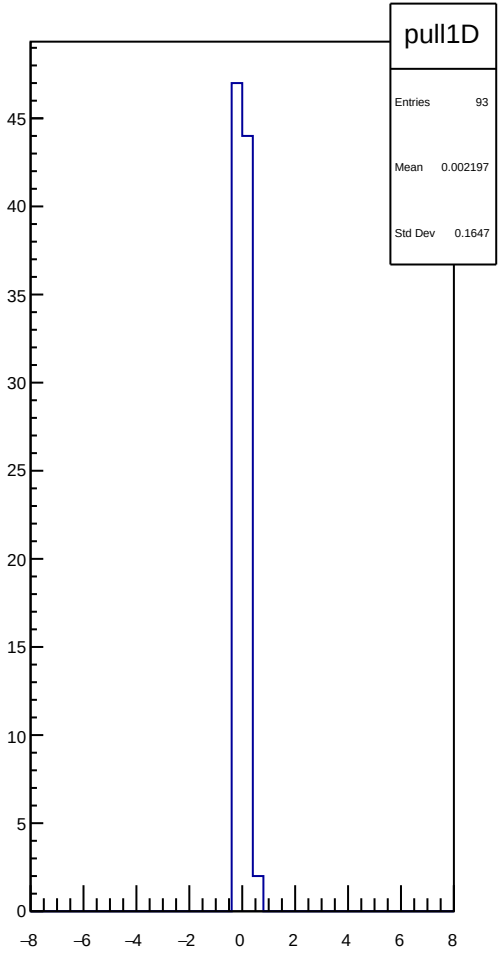

pull1D
Entries 93
Mean −0.1402
Std Dev 0.8491

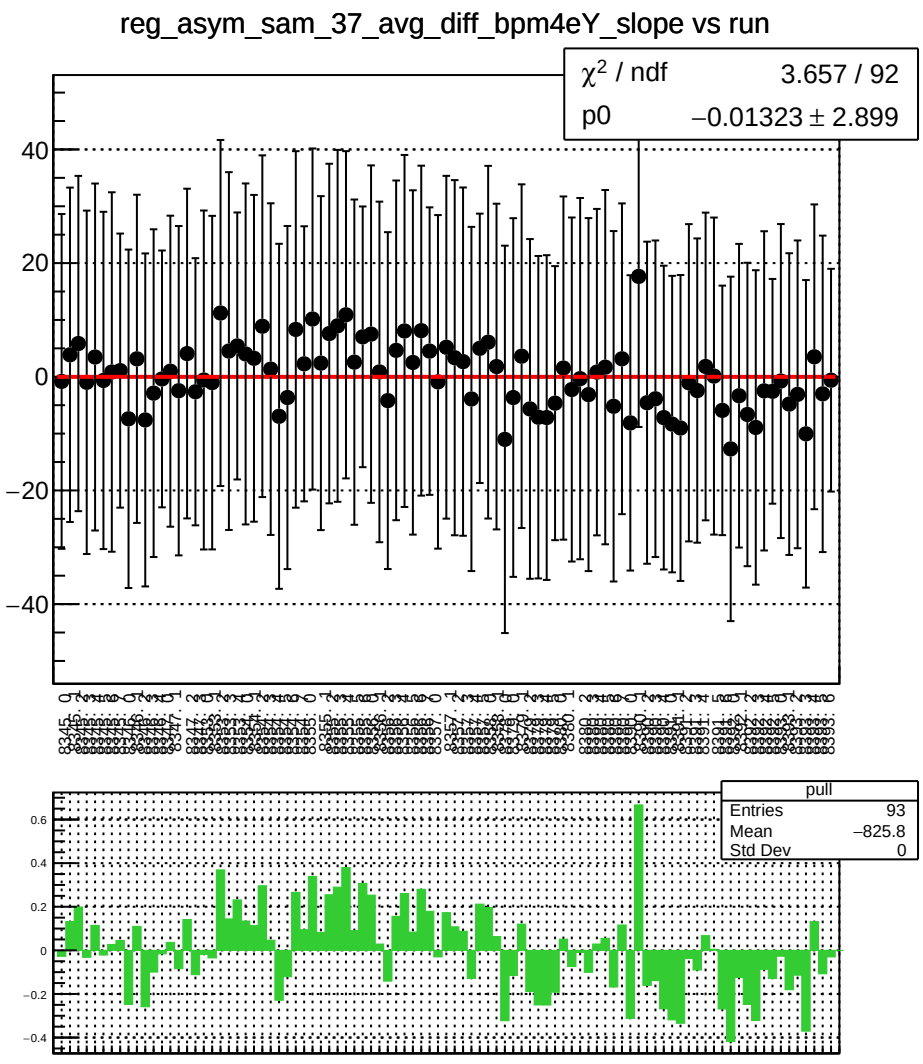

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 4.779 / 92
p0 −5.266 ± 1.564
pull
Entries 93
Mean 144.3
Std Dev 0
pull1D
Entries 93
Mean −0.02591
Std Dev 0.2252

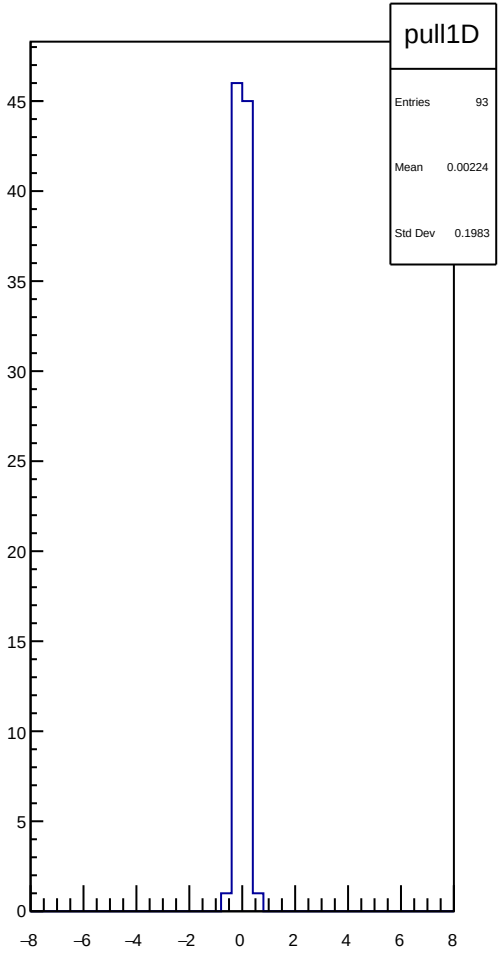

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.948 / 92
p0 5.441 ± 2.747
pull
Entries 93
Mean −1897
Std Dev 0

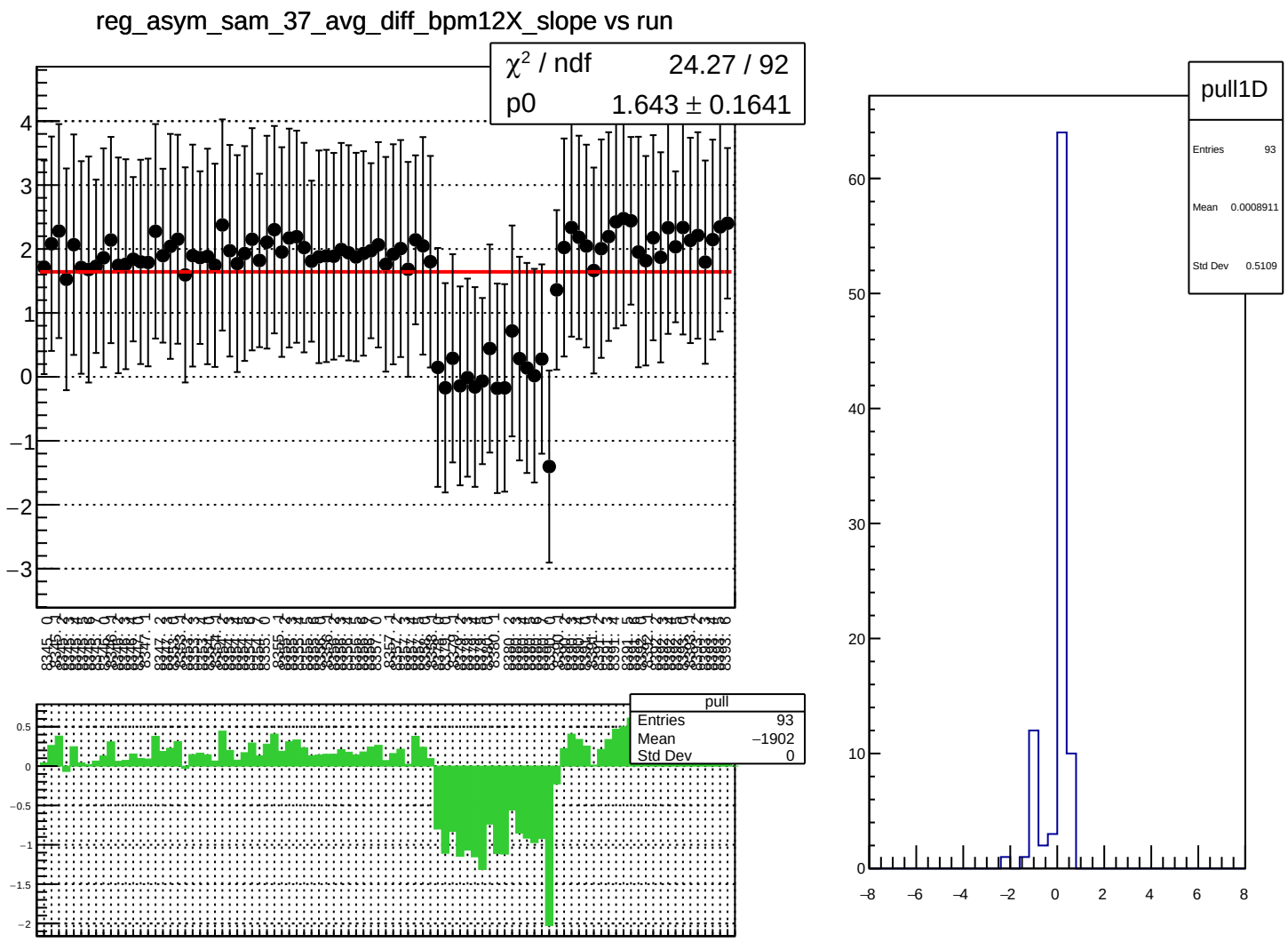

pull1D
Entries 93
Mean −0.0001501
Std Dev 0.206

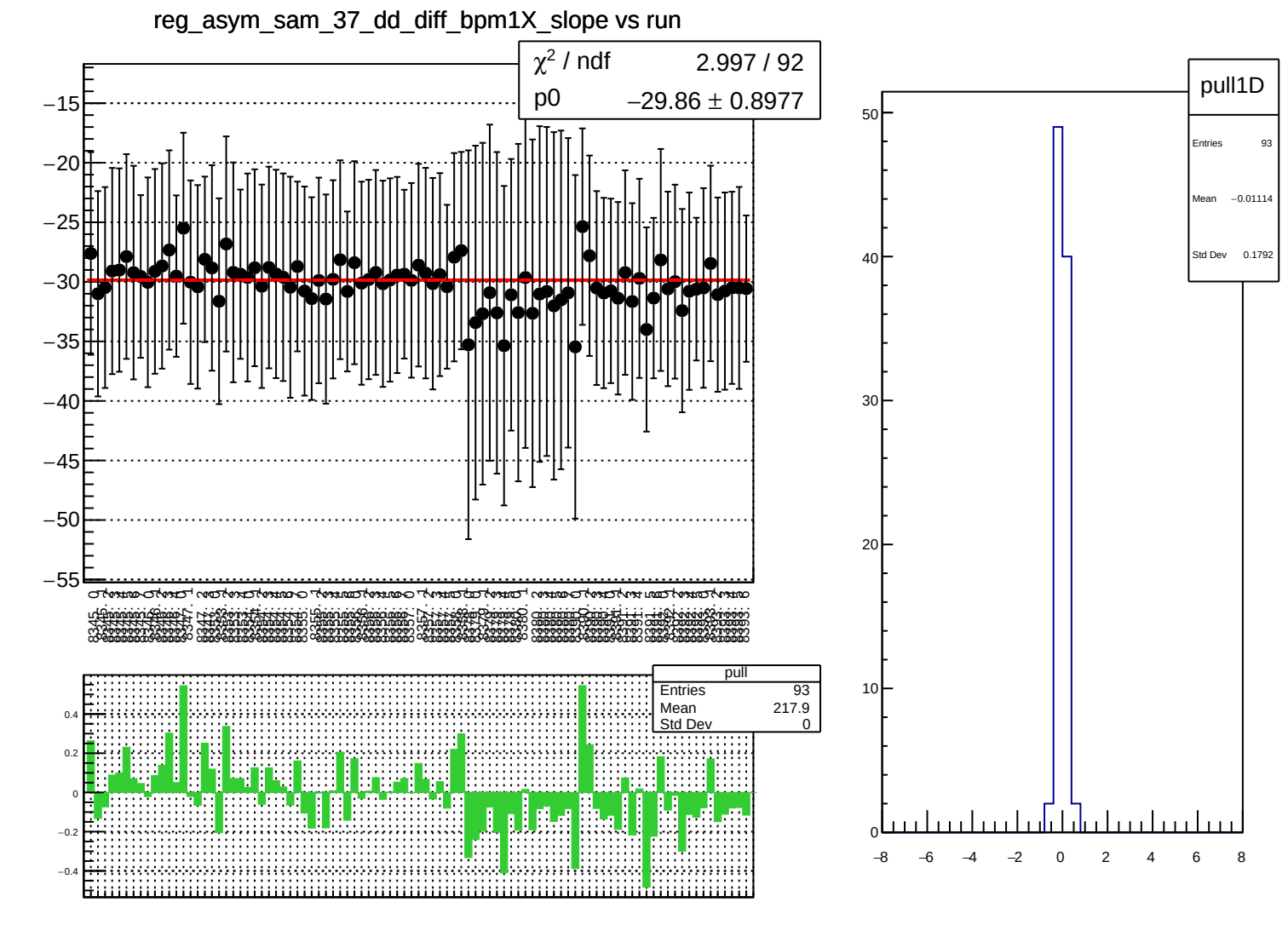

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.524 / 92
p0 −75.65 ± 1.725
pull
Entries 93
Mean 1029
Std Dev 0

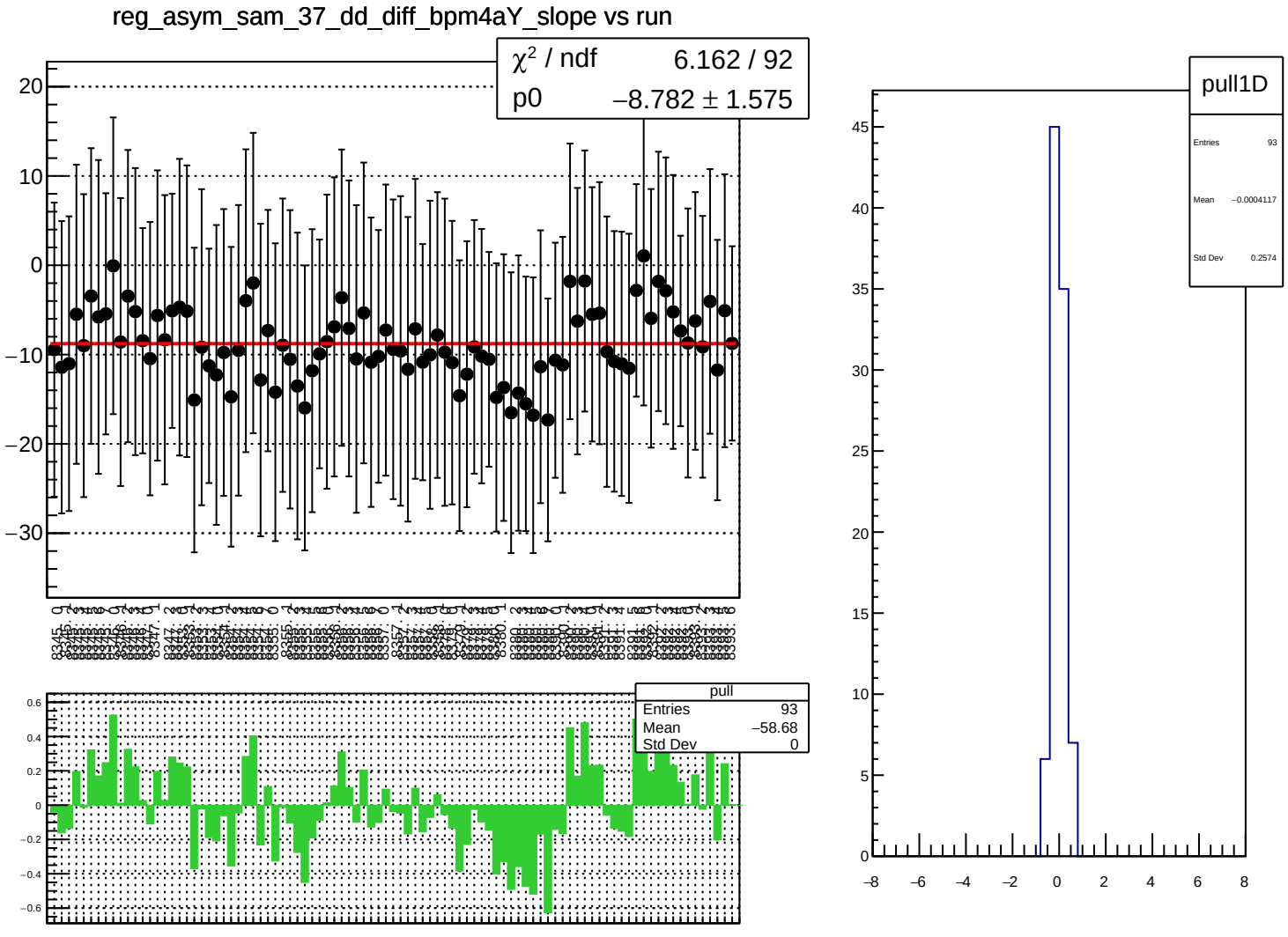

pull1D
Entries 93
Mean 0.002197
Std Dev 0.1647

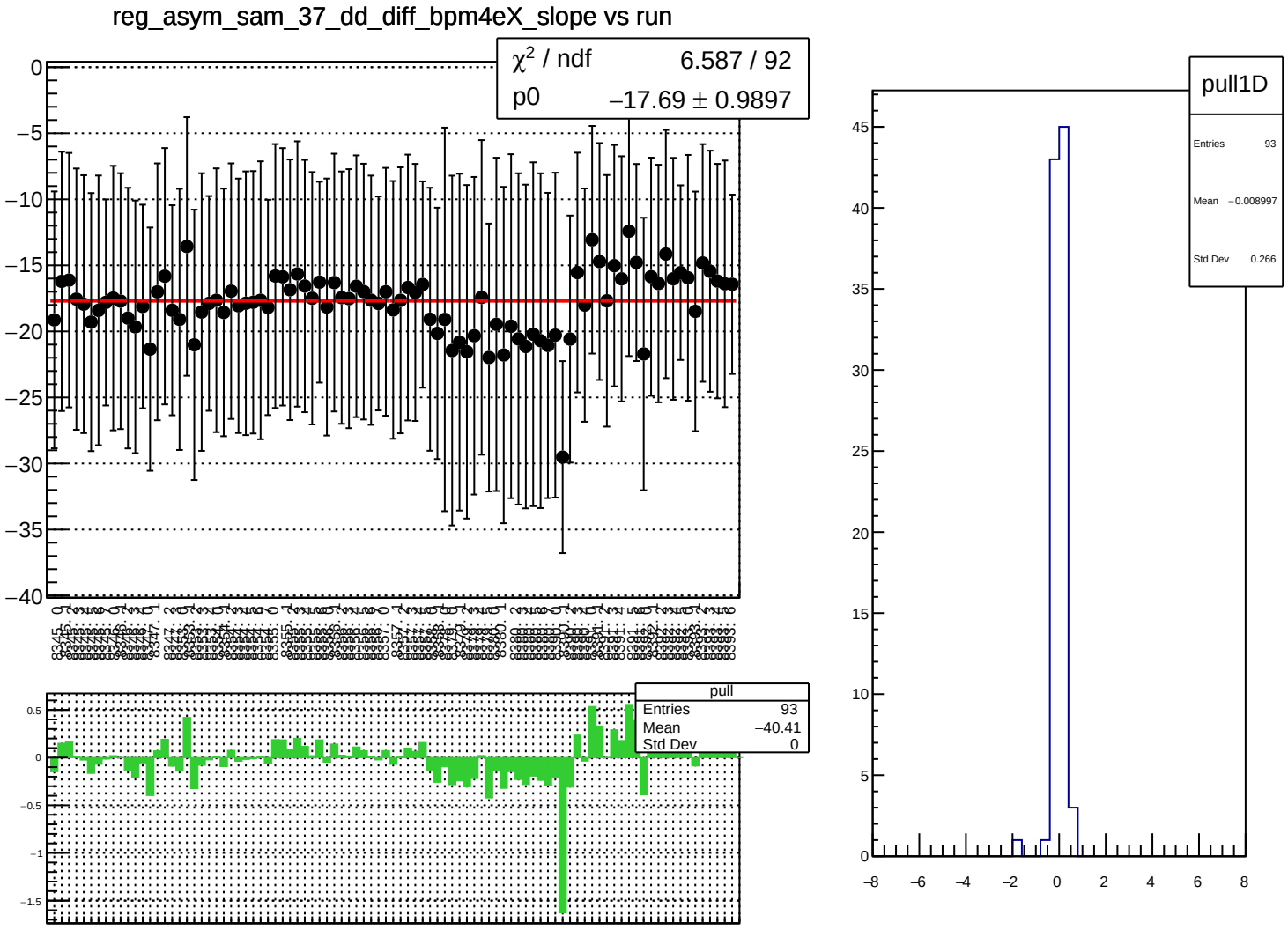

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.657 / 92
p0 −0.01323 ± 2.899
pull
Entries 93
Mean −825.8
Std Dev 0

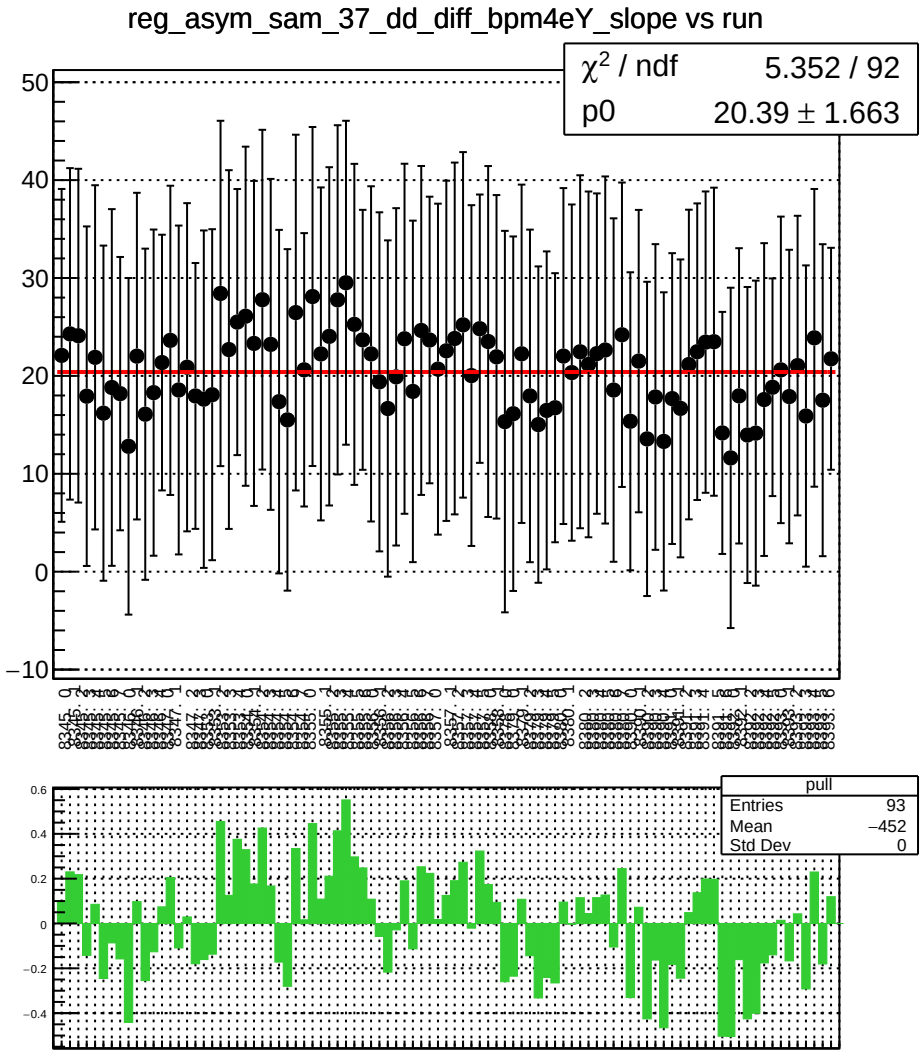

pull1D
Entries 93
Mean 0.00224
Std Dev 0.1983

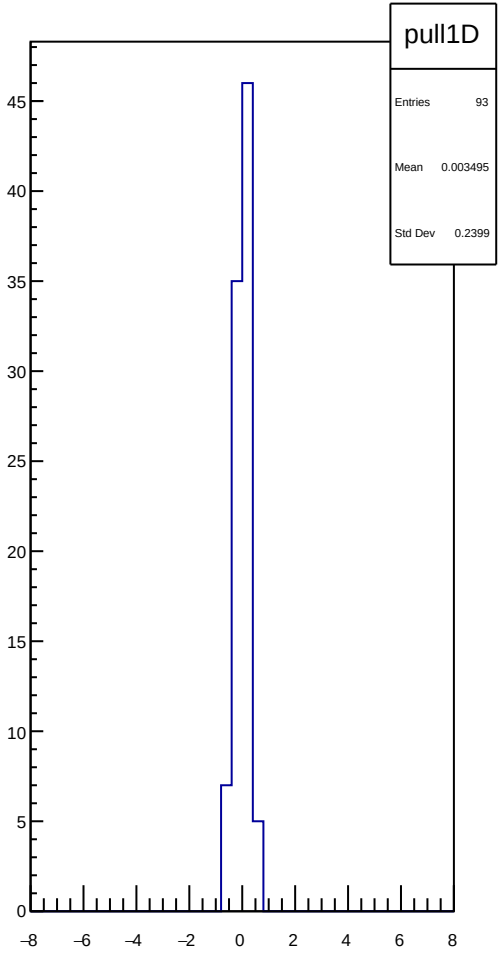

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 24.27 / 92
p0 1.643 ± 0.1641
pull
Entries 93
Mean −1902
Std Dev 0
pull1D
Entries 93
Mean 0.0008911
Std Dev 0.5109

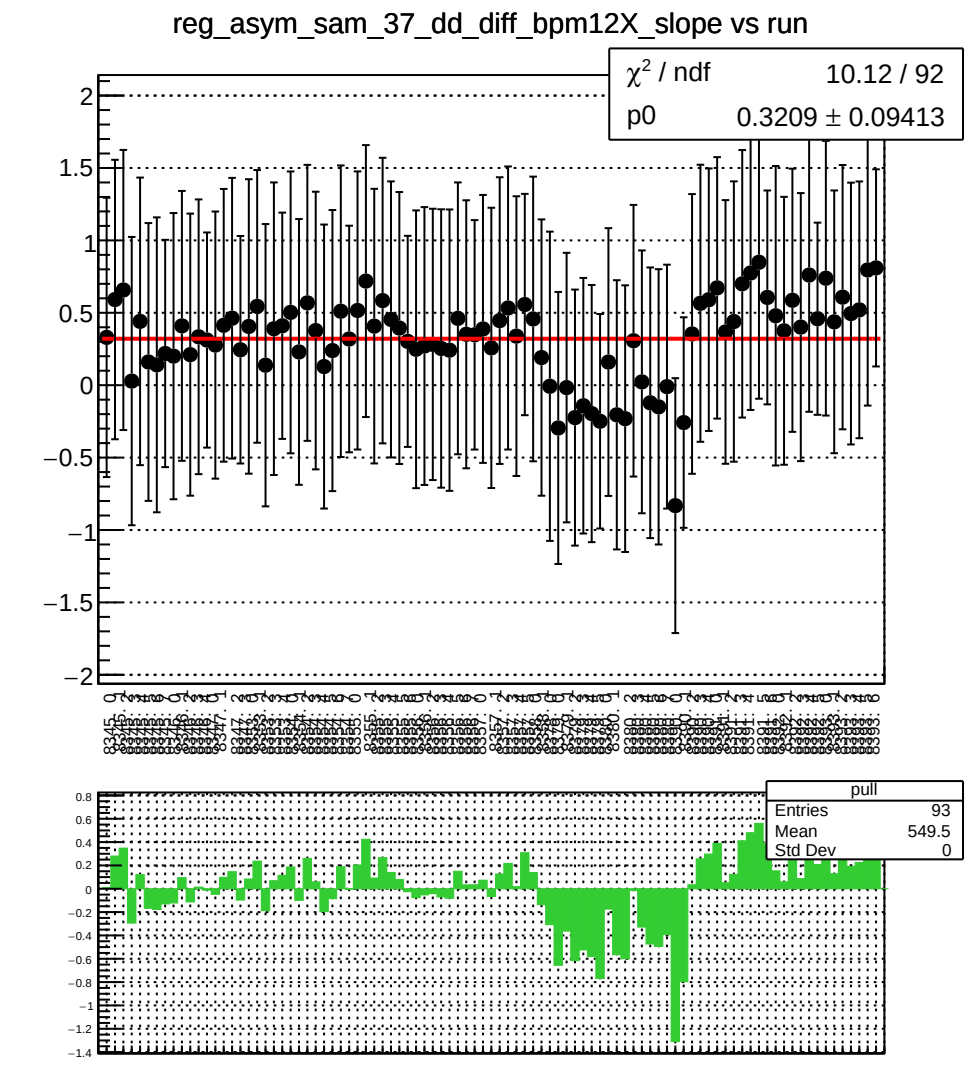

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 2.997 / 92
p0 −29.86 ± 0.8977
pull
Entries 93
Mean 217.9
Std Dev 0
pull1D
Entries 93
Mean −0.01114
Std Dev 0.1792

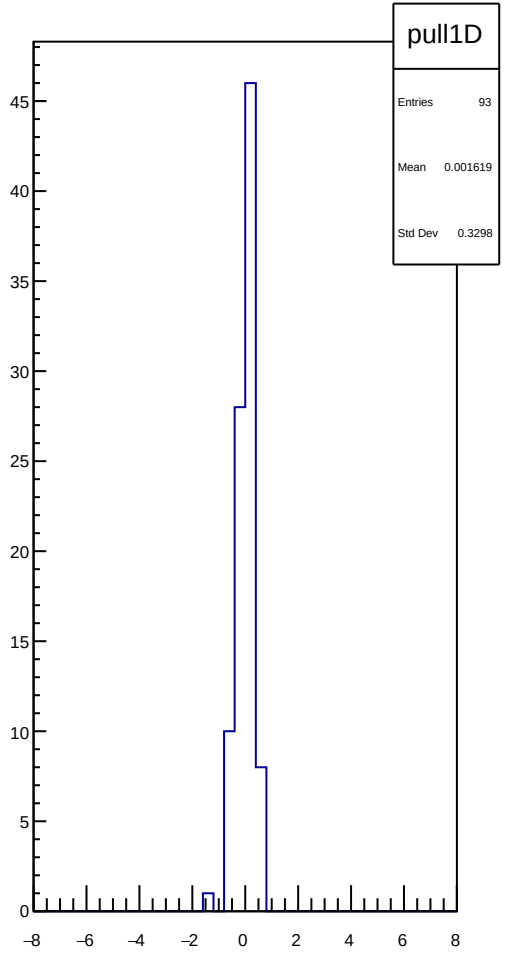

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.162 / 92
p0 −8.782 ± 1.575
pull
Entries 93
Mean −58.68
Std Dev 0
pull1D
Entries 93
Mean −0.0004117
Std Dev 0.2574

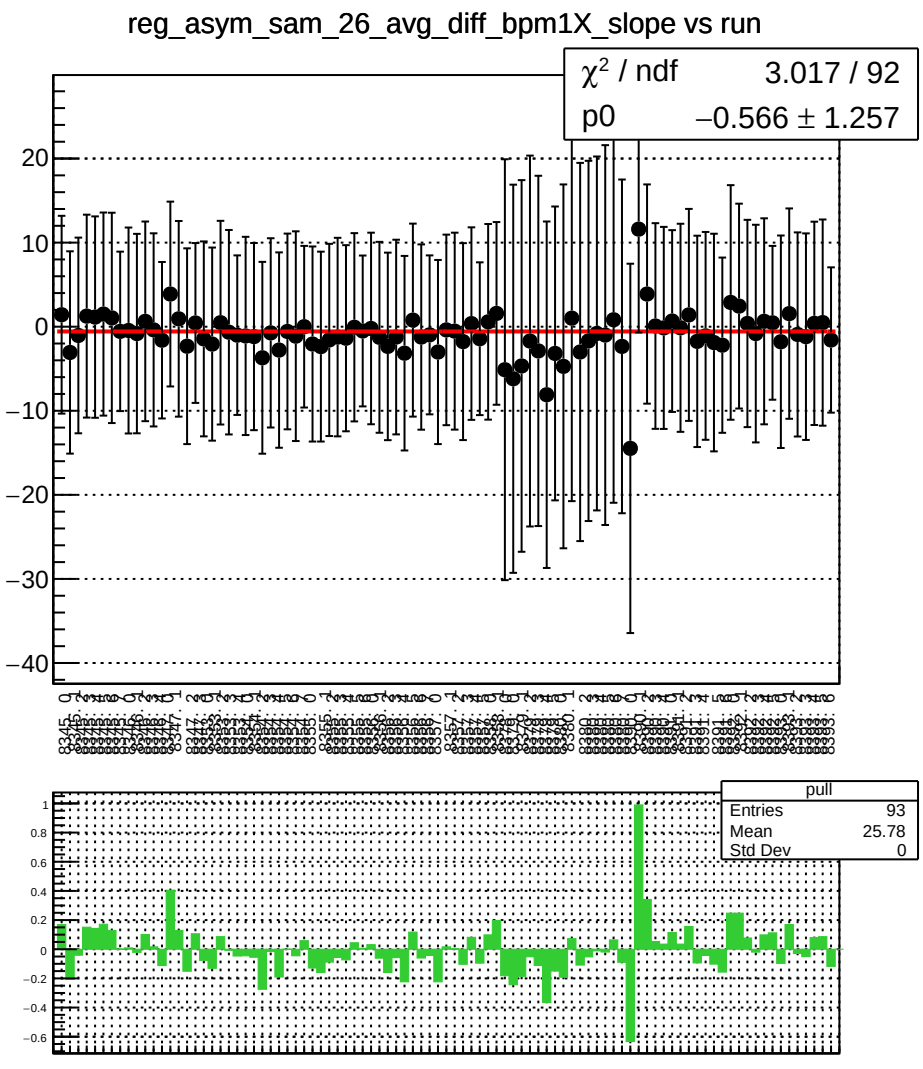

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.587 / 92
p0 −17.69 ± 0.9897
pull
Entries 93
Mean −40.41
Std Dev 0
pull1D
Entries 93
Mean −0.008997
Std Dev 0.266

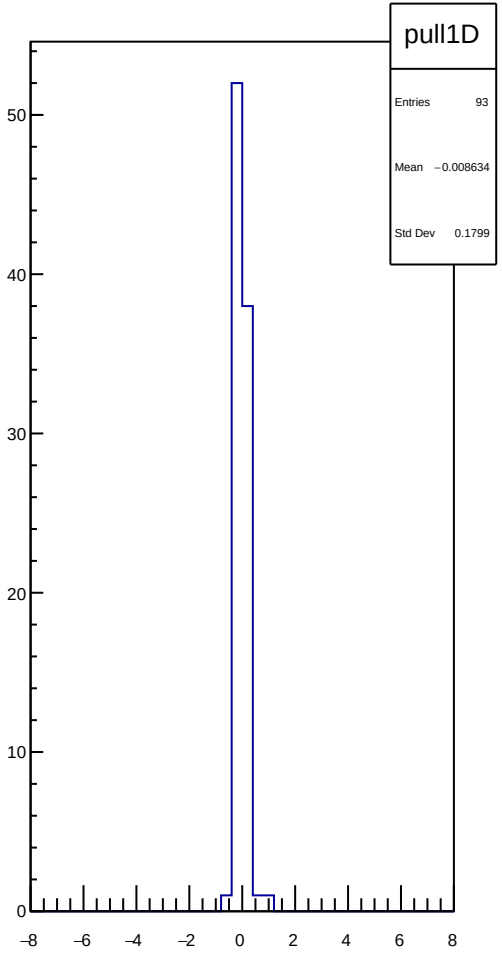

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.352 / 92
p0 20.39 ± 1.663
pull
Entries 93
Mean −452
Std Dev 0

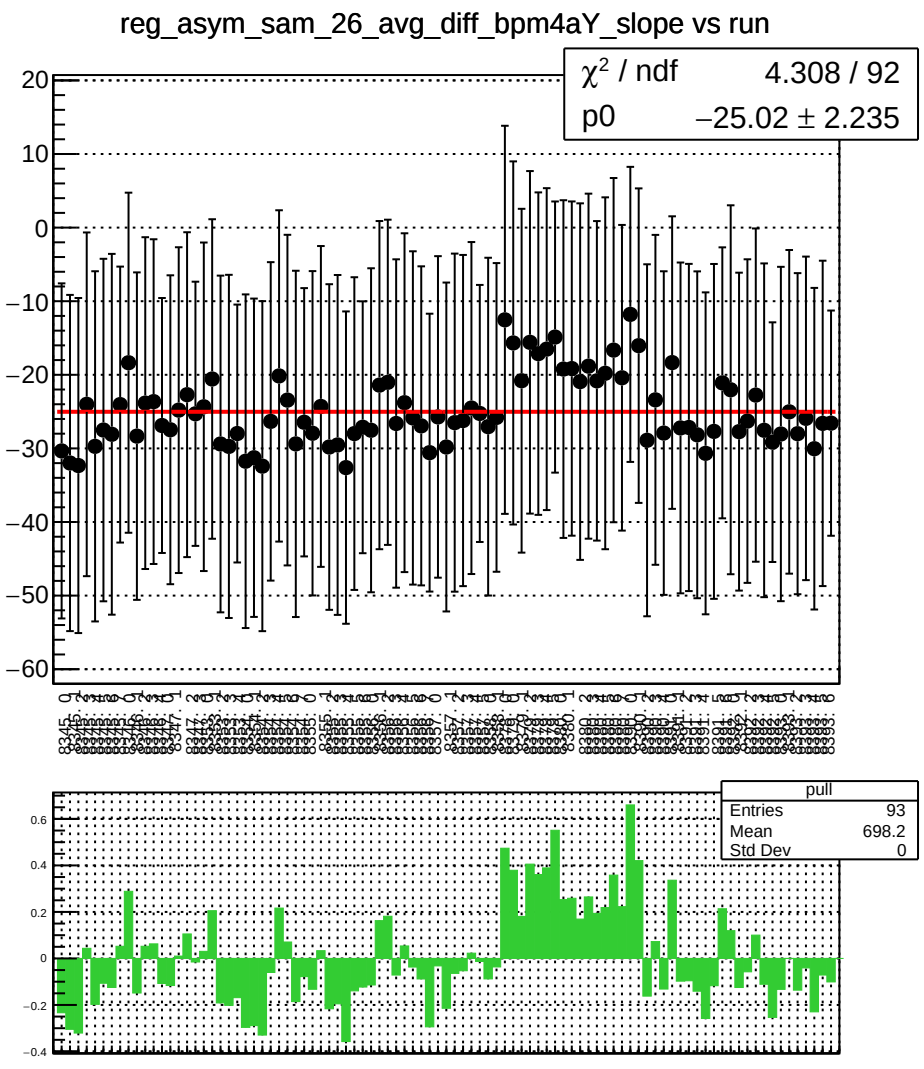

pull1D
Entries 93
Mean 0.003495
Std Dev 0.2399

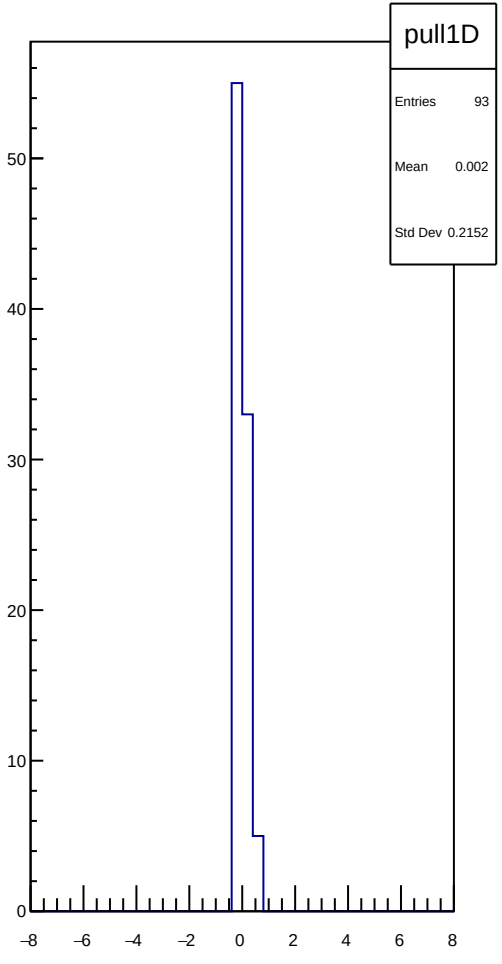

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 10.12 / 92
p0 0.3209 ± 0.09413
pull
Entries 93
Mean 549.5
Std Dev 0

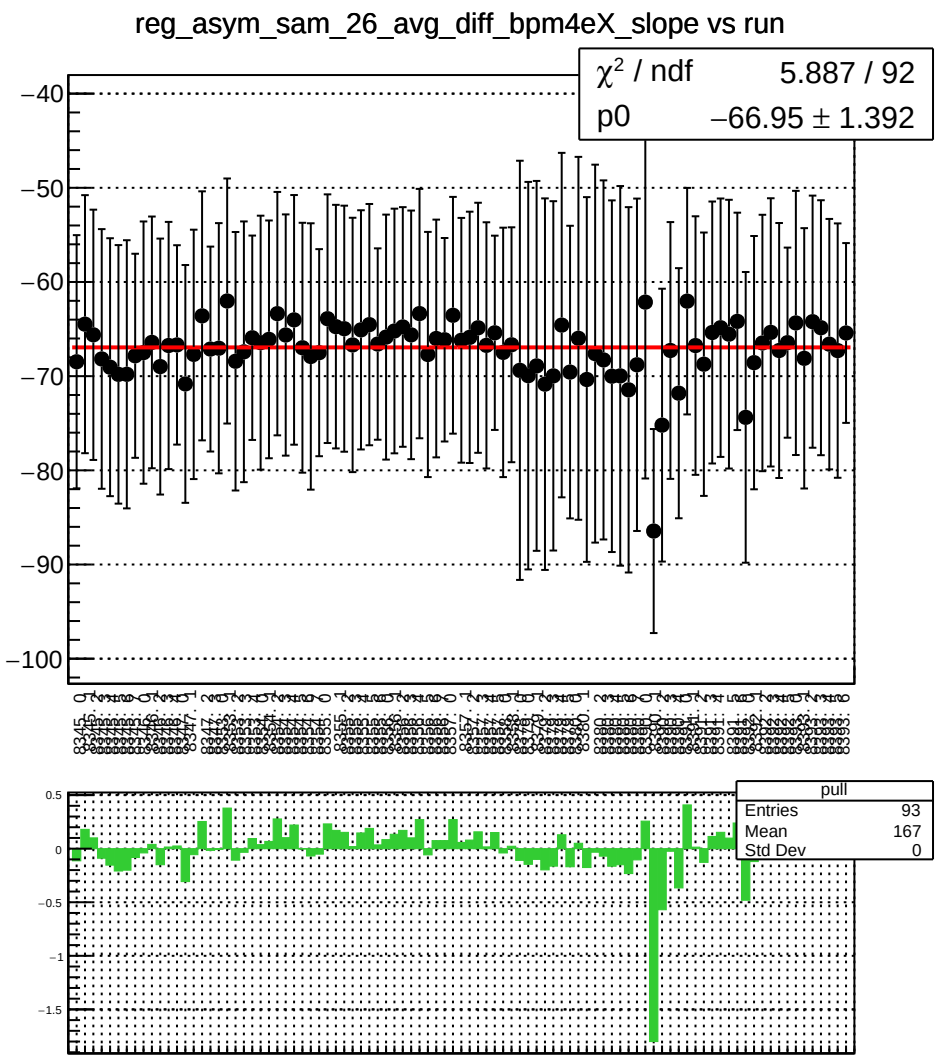

pull1D
Entries 93
Mean 0.001619
Std Dev 0.3298

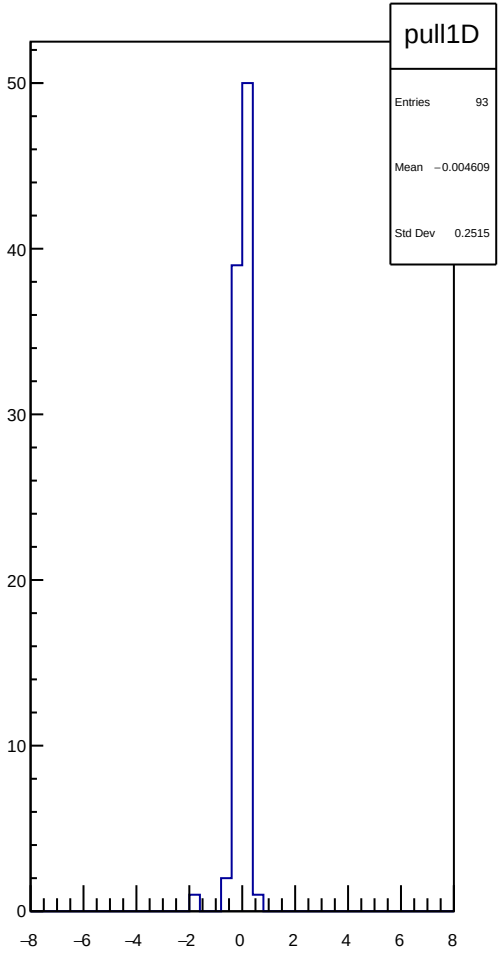

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 3.017 / 92
p0 −0.566 ± 1.257
pull
Entries 93
Mean 25.78
Std Dev 0

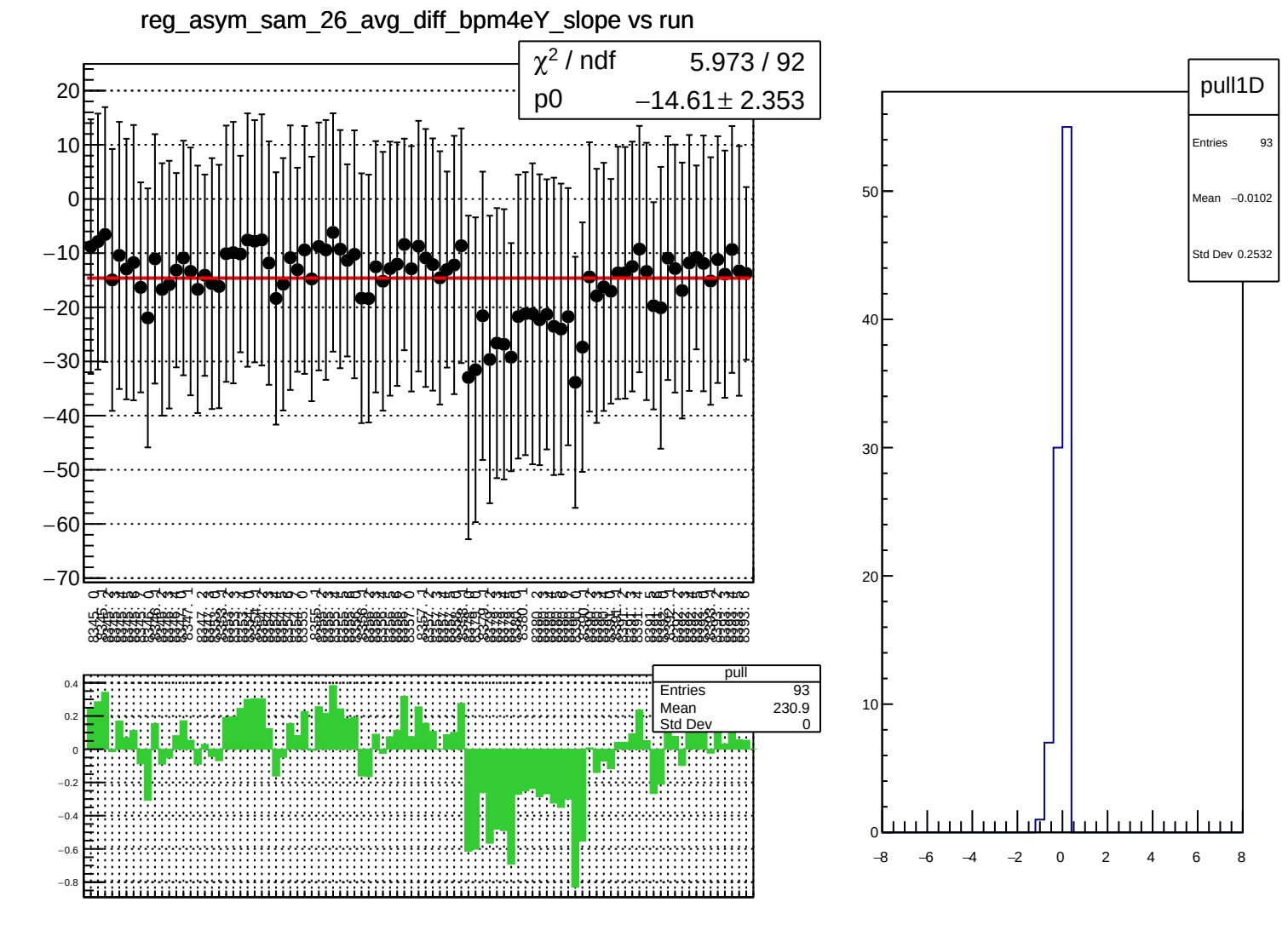

pull1D
Entries 93
Mean −0.008634
Std Dev 0.1799

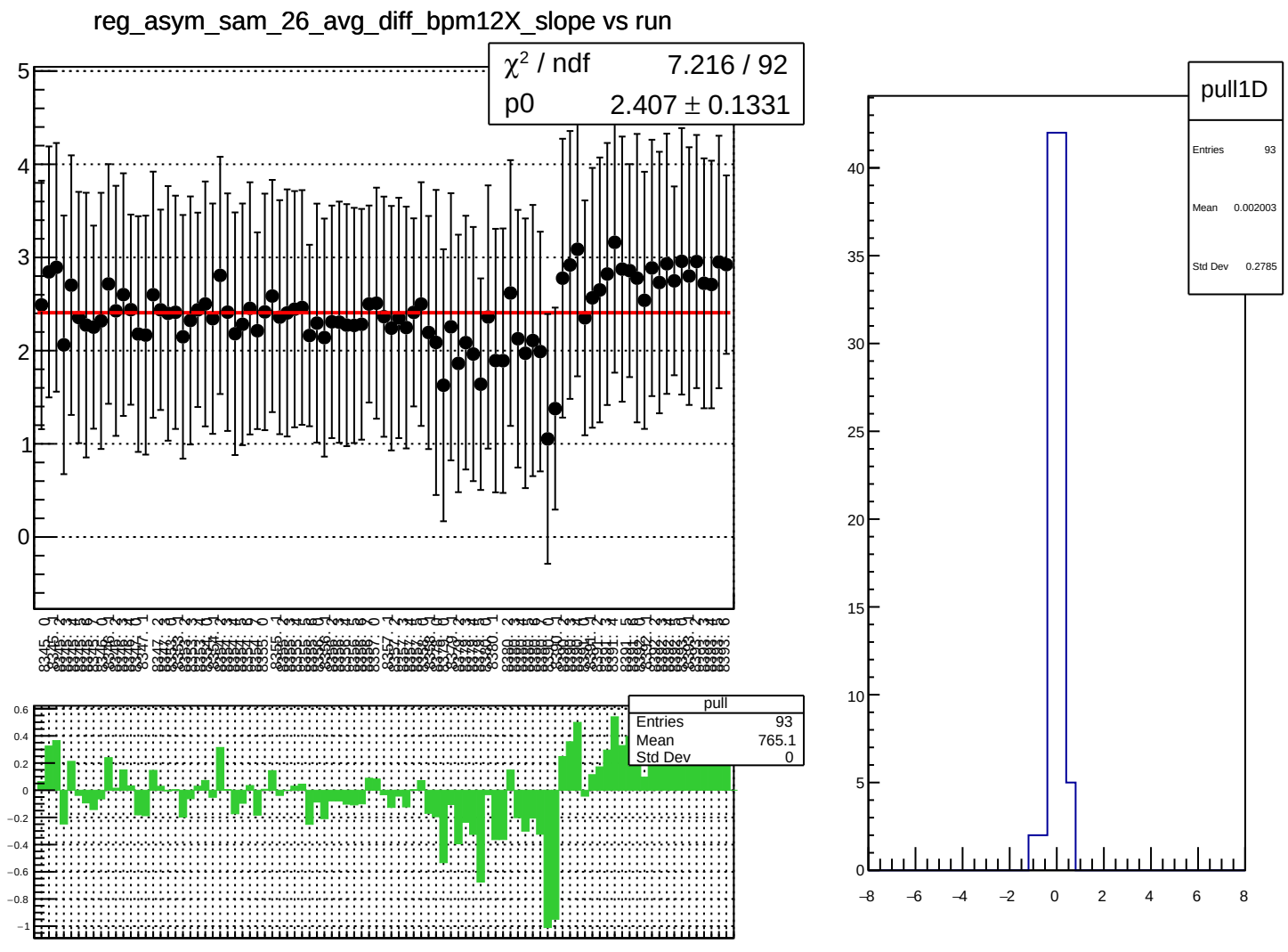

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.308 / 92
p0 −25.02 ± 2.235
pull
Entries 93
Mean 698.2
Std Dev 0

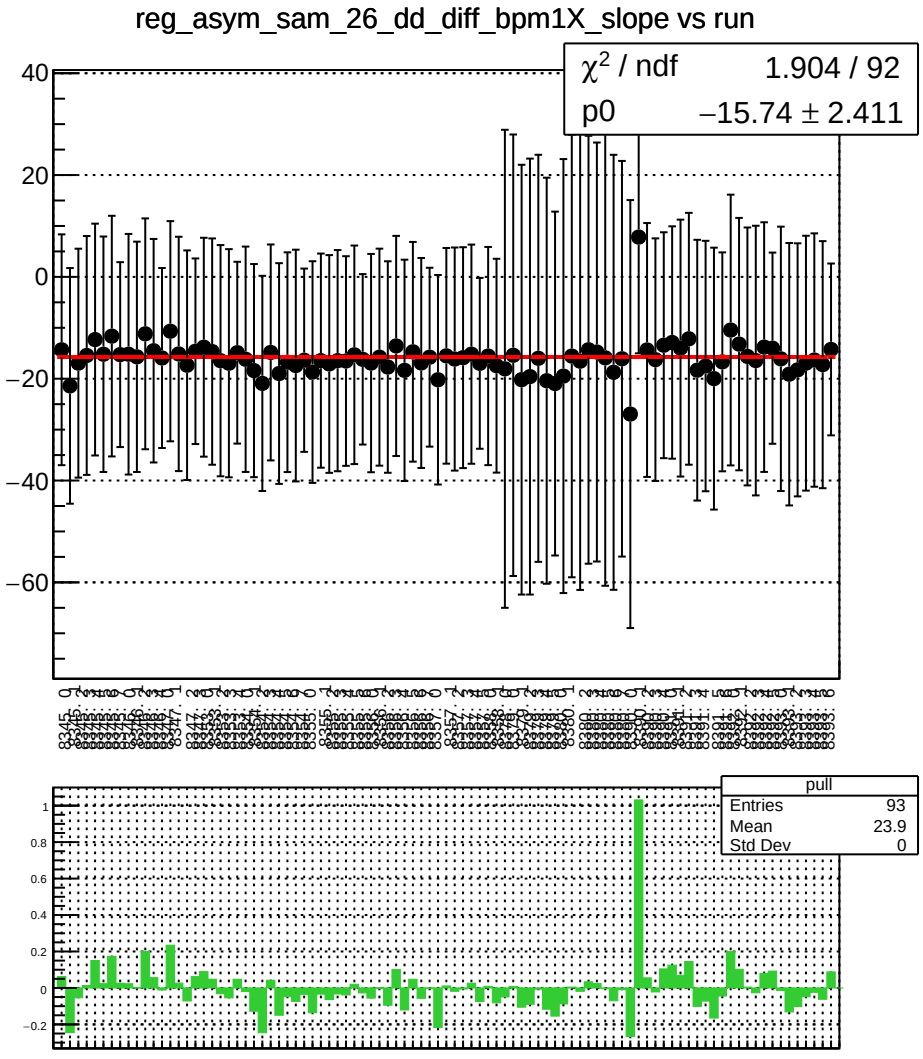

pull1D
Entries 93
Mean 0.002
Std Dev 0.2152

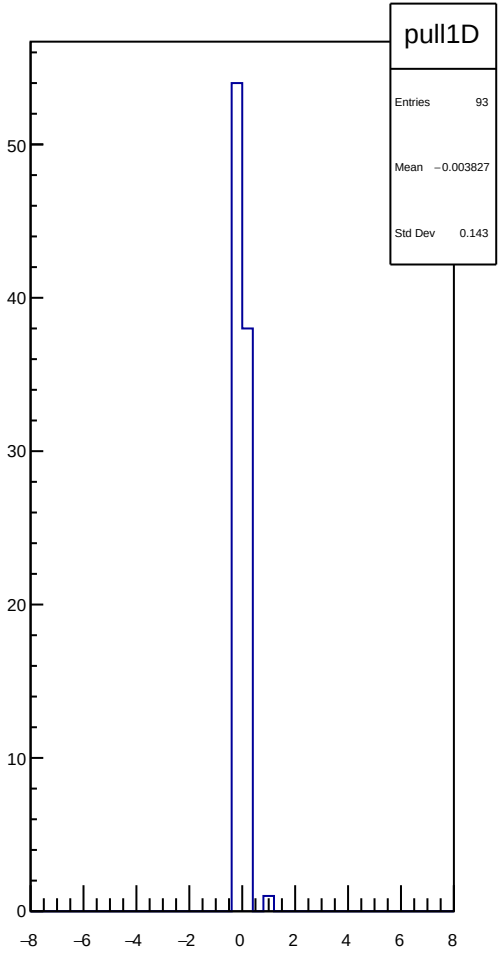

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 5.887 / 92
p0 −66.95 ± 1.392
pull
Entries 93
Mean 167
Std Dev 0

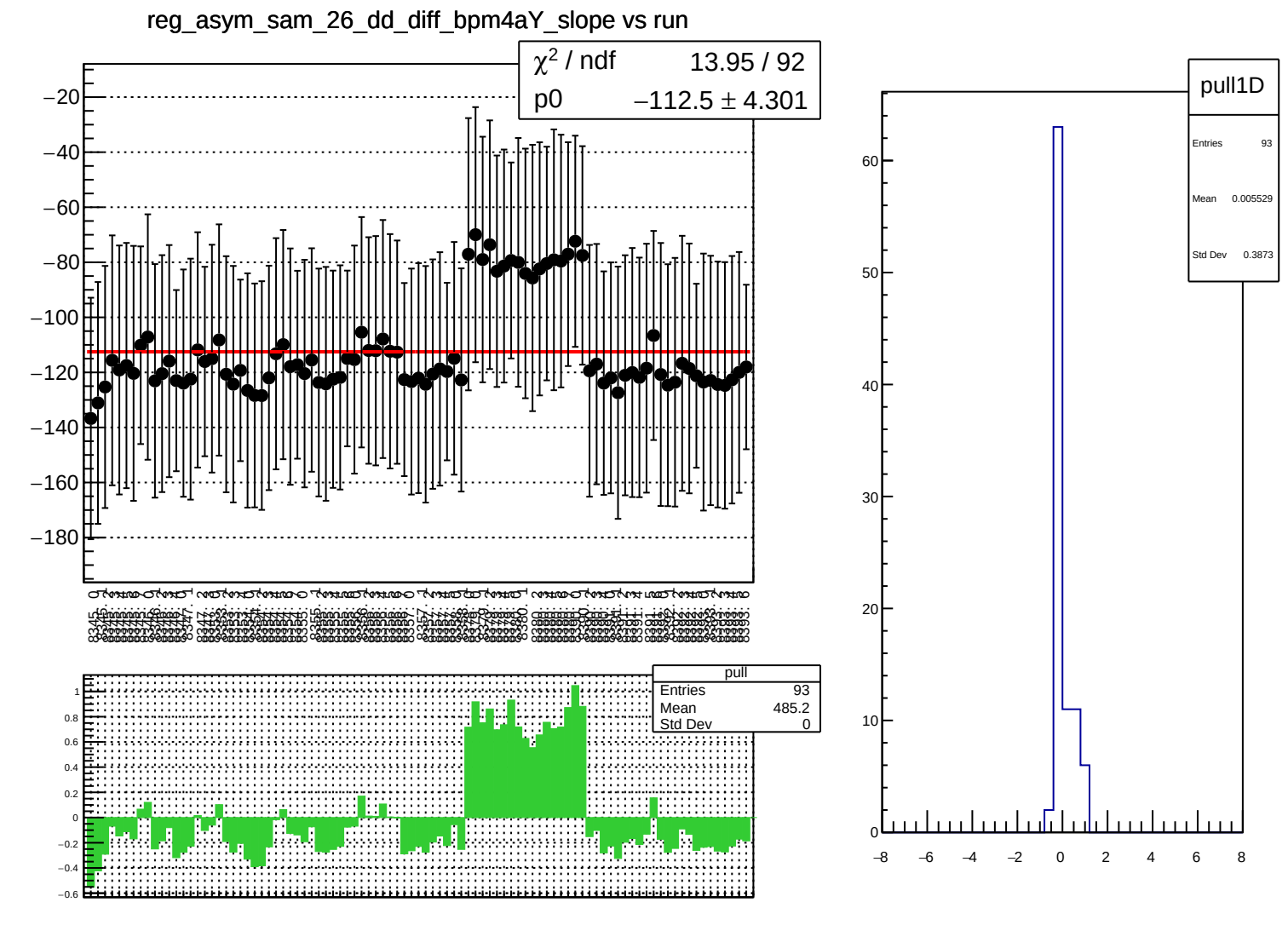

pull1D
Entries 93
Mean −0.004609
Std Dev 0.2515

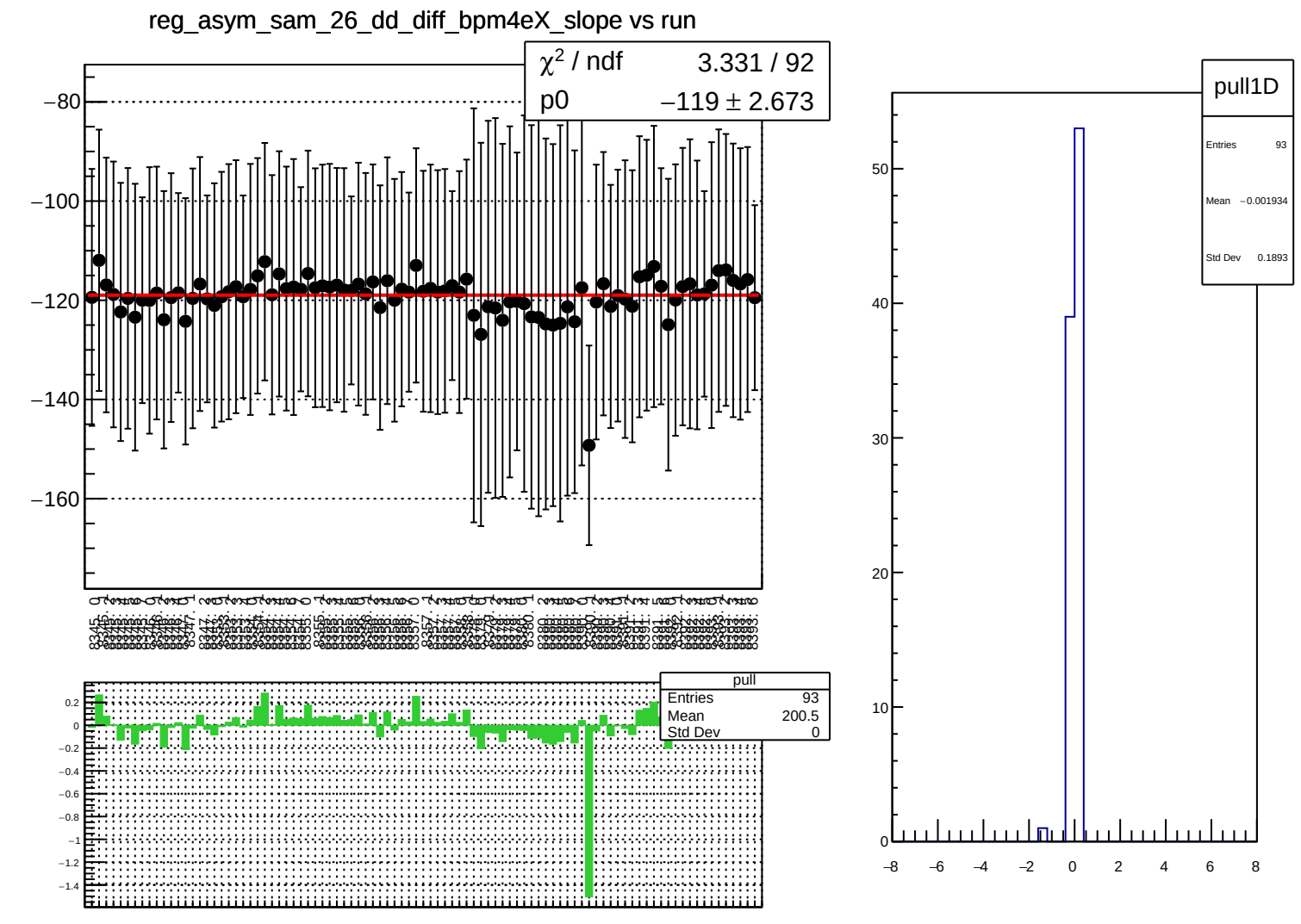

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.973 / 92
p0 −14.61 ± 2.353
pull
Entries 93
Mean 230.9
Std Dev 0
pull1D
Entries 93
Mean −0.0102
Std Dev 0.2532

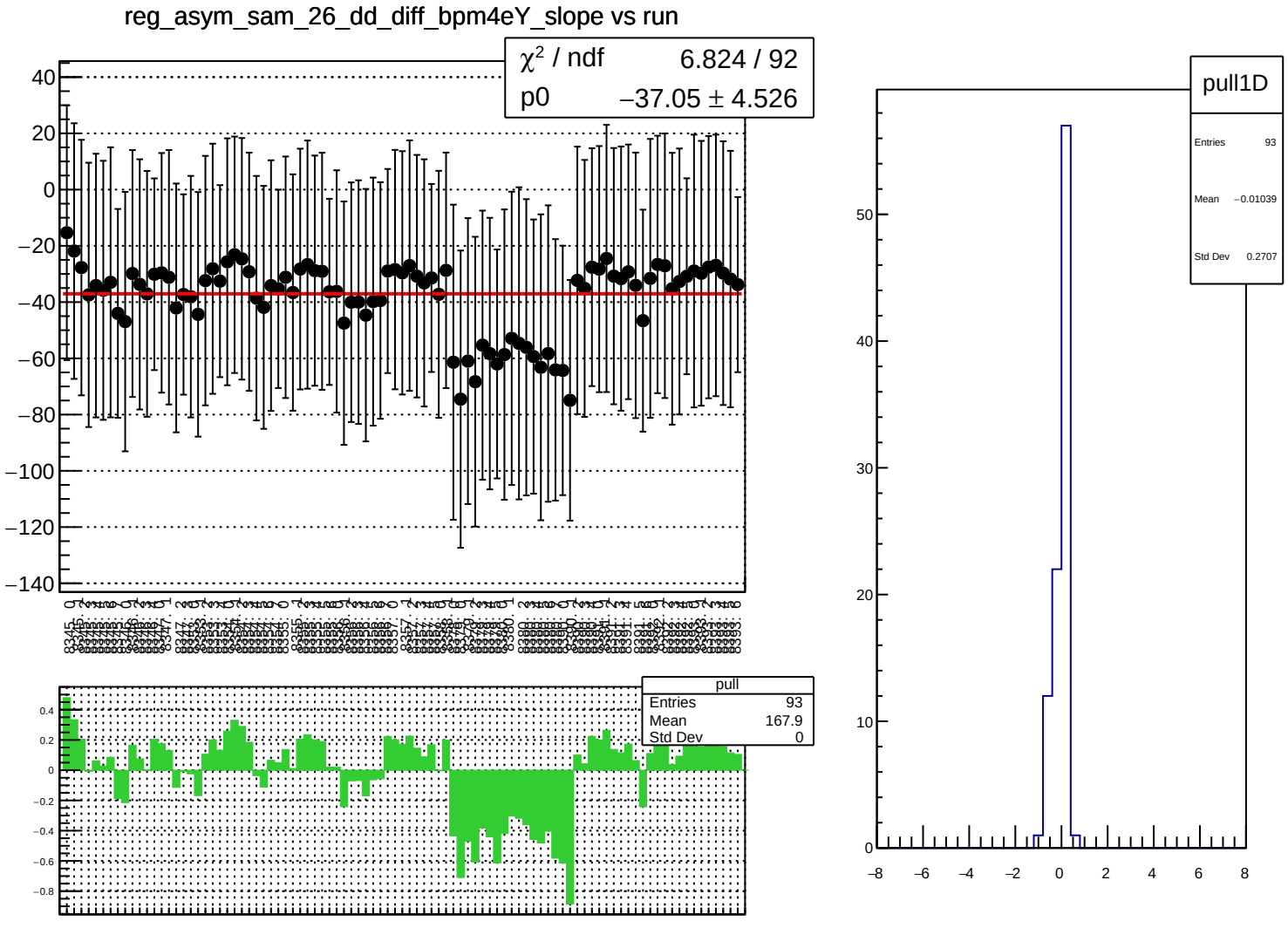

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 7.216 / 92
p0 2.407 ± 0.1331
pull
Entries 93
Mean 765.1
Std Dev 0
pull1D
Entries 93
Mean 0.002003
Std Dev 0.2785

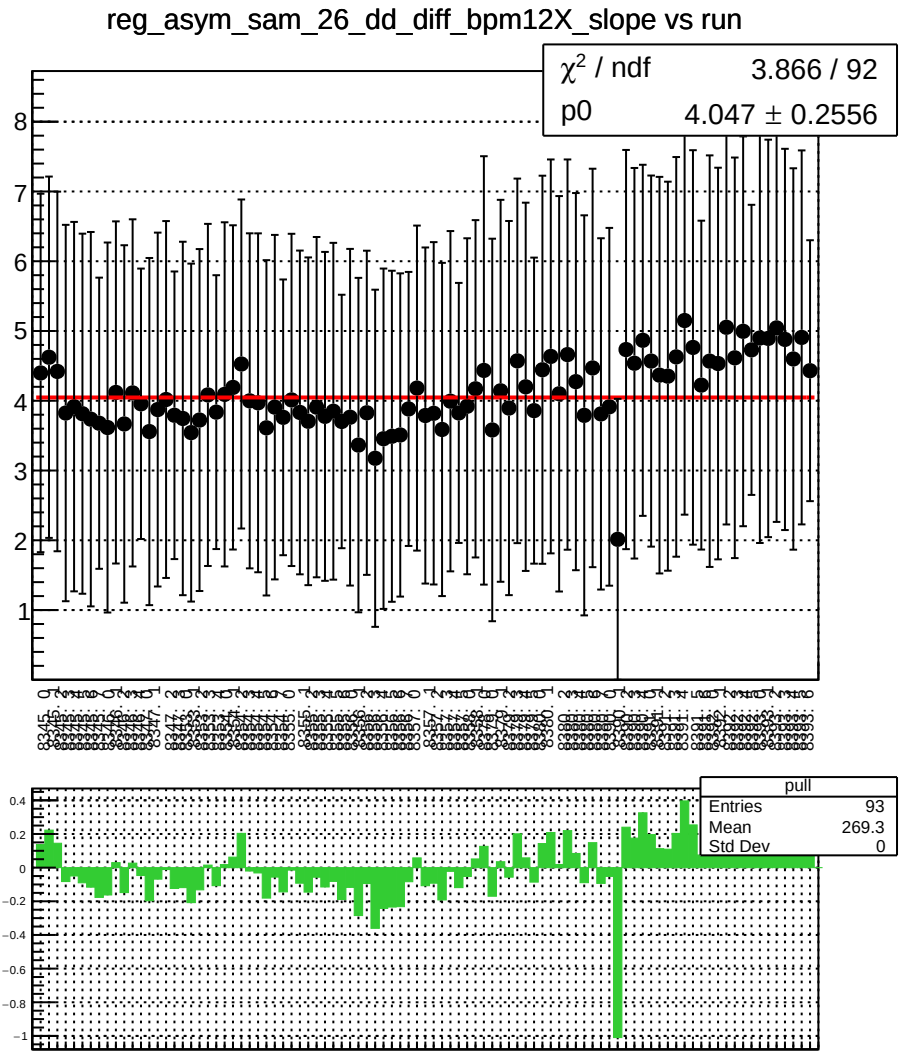

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 1.904 / 92
p0 −15.74 ± 2.411
pull
Entries 93
Mean 23.9
Std Dev 0

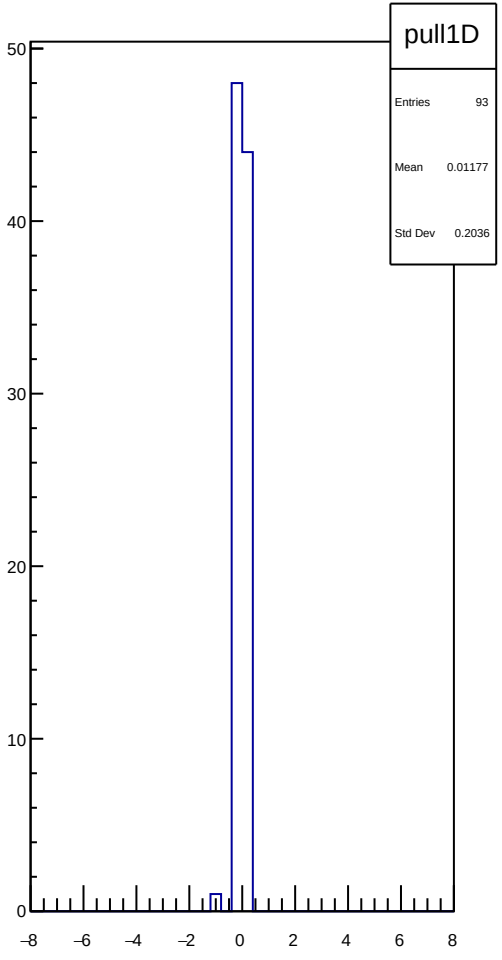

pull1D
Entries 93
Mean −0.003827
Std Dev 0.143

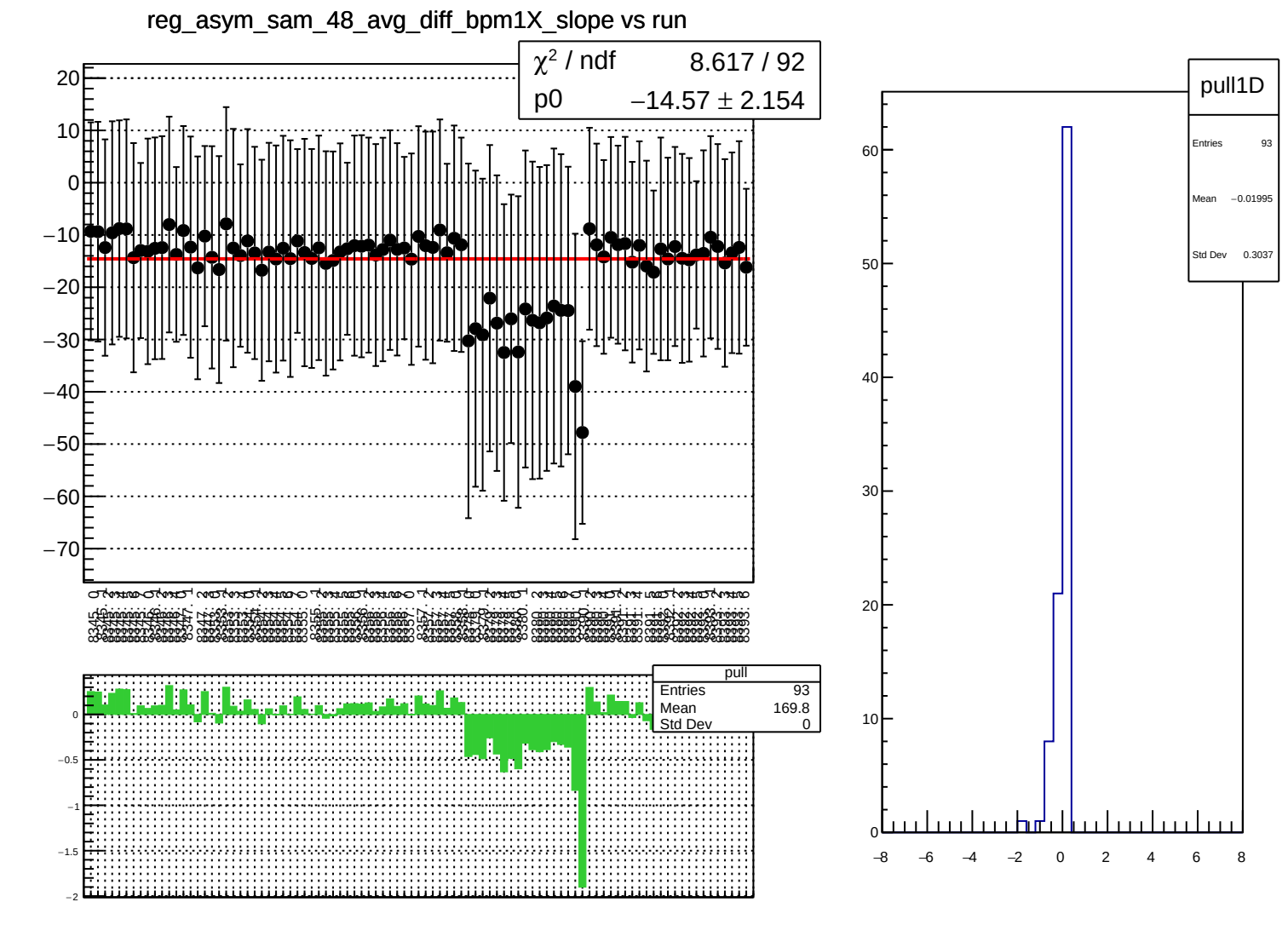

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.95 / 92
p0 −112.5 ± 4.301
pull
Entries 93
Mean 485.2
Std Dev 0
pull1D
Entries 93
Mean 0.005529
Std Dev 0.3873

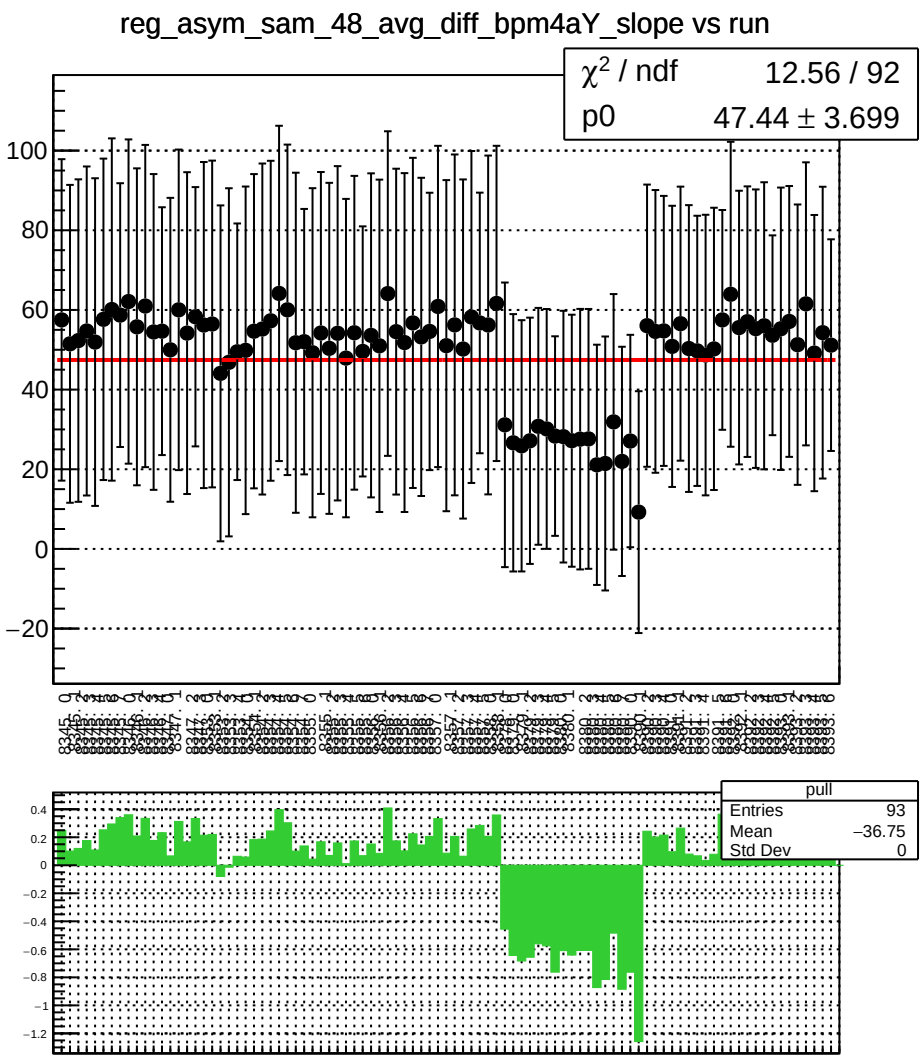

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.331 / 92
p0 −119 ± 2.673
−80
−100
−120
−140
−160
pull
Entries 93
Mean 200.5
Std Dev 0
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4
pull1D
Entries 93
Mean −0.001934
Std Dev 0.1893
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

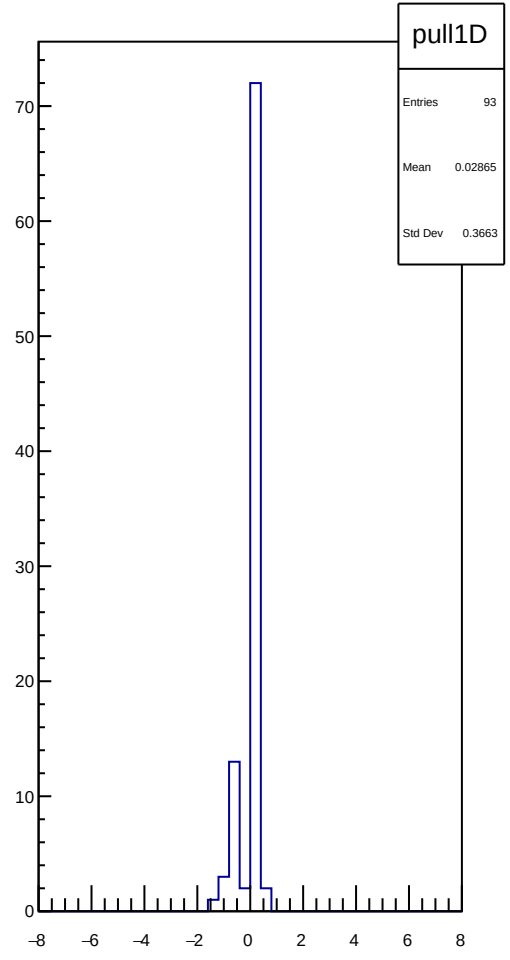

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.824 / 92
p0 −37.05 ± 4.526
pull
Entries 93
Mean 167.9
Std Dev 0
pull1D
Entries 93
Mean −0.01039
Std Dev 0.2707

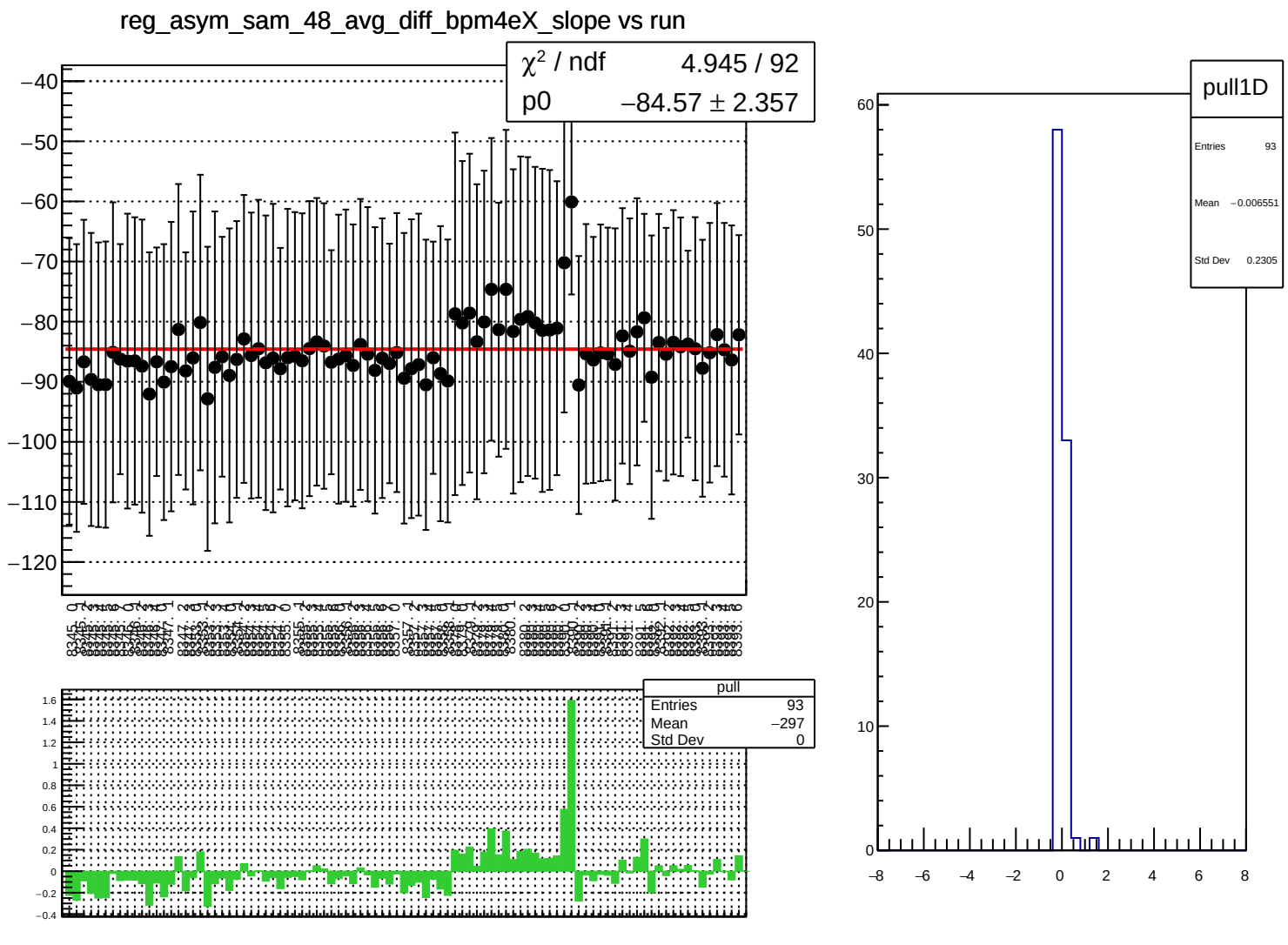

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 3.866 / 92
p0 4.047 ± 0.2556
pull
Entries 93
Mean 269.3
Std Dev 0

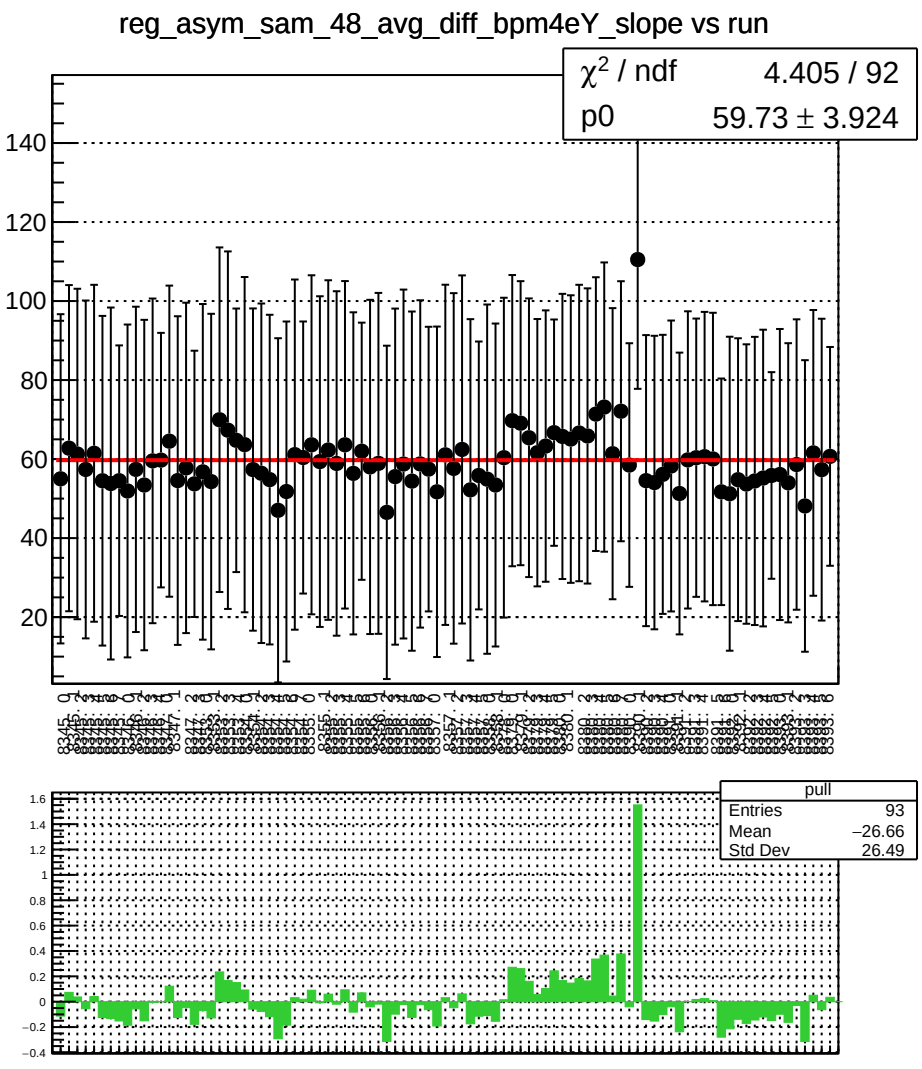

pull1D
Entries 93
Mean 0.01177
Std Dev 0.2036

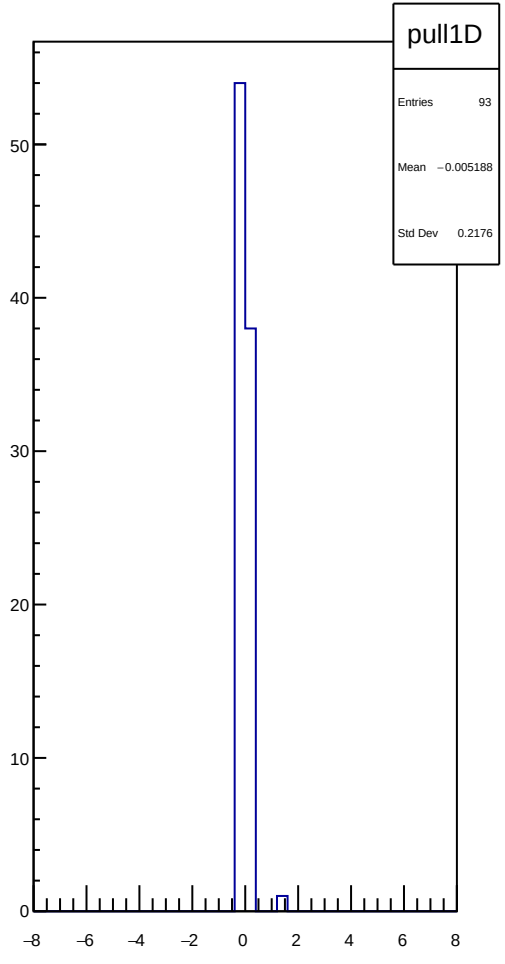

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 8.617 / 92
p0 −14.57 ± 2.154
pull
Entries 93
Mean 169.8
Std Dev 0
pull1D
Entries 93
Mean −0.01995
Std Dev 0.3037

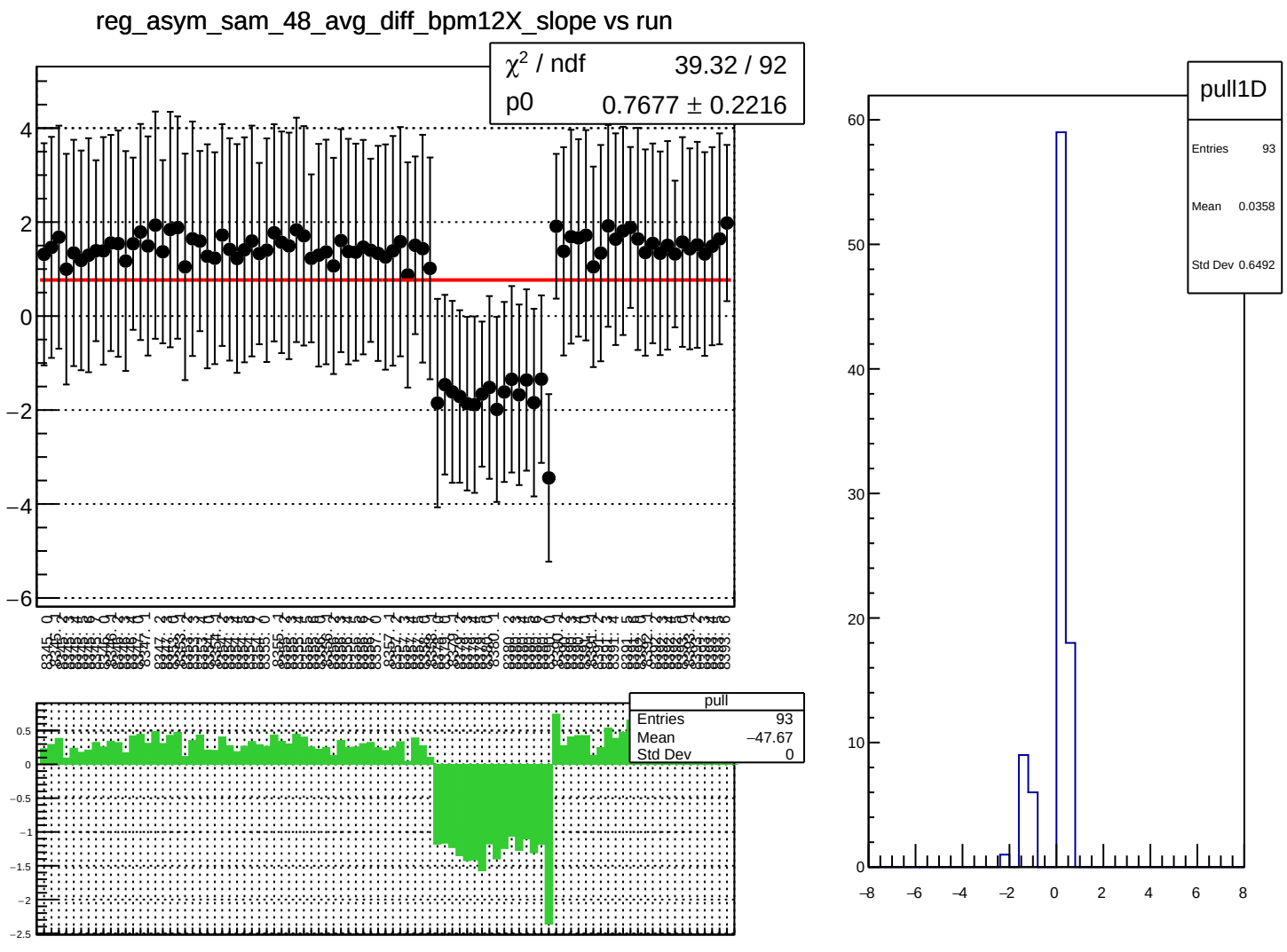

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.56 / 92
p0 47.44 ± 3.699
pull
Entries 93
Mean −36.75
Std Dev 0

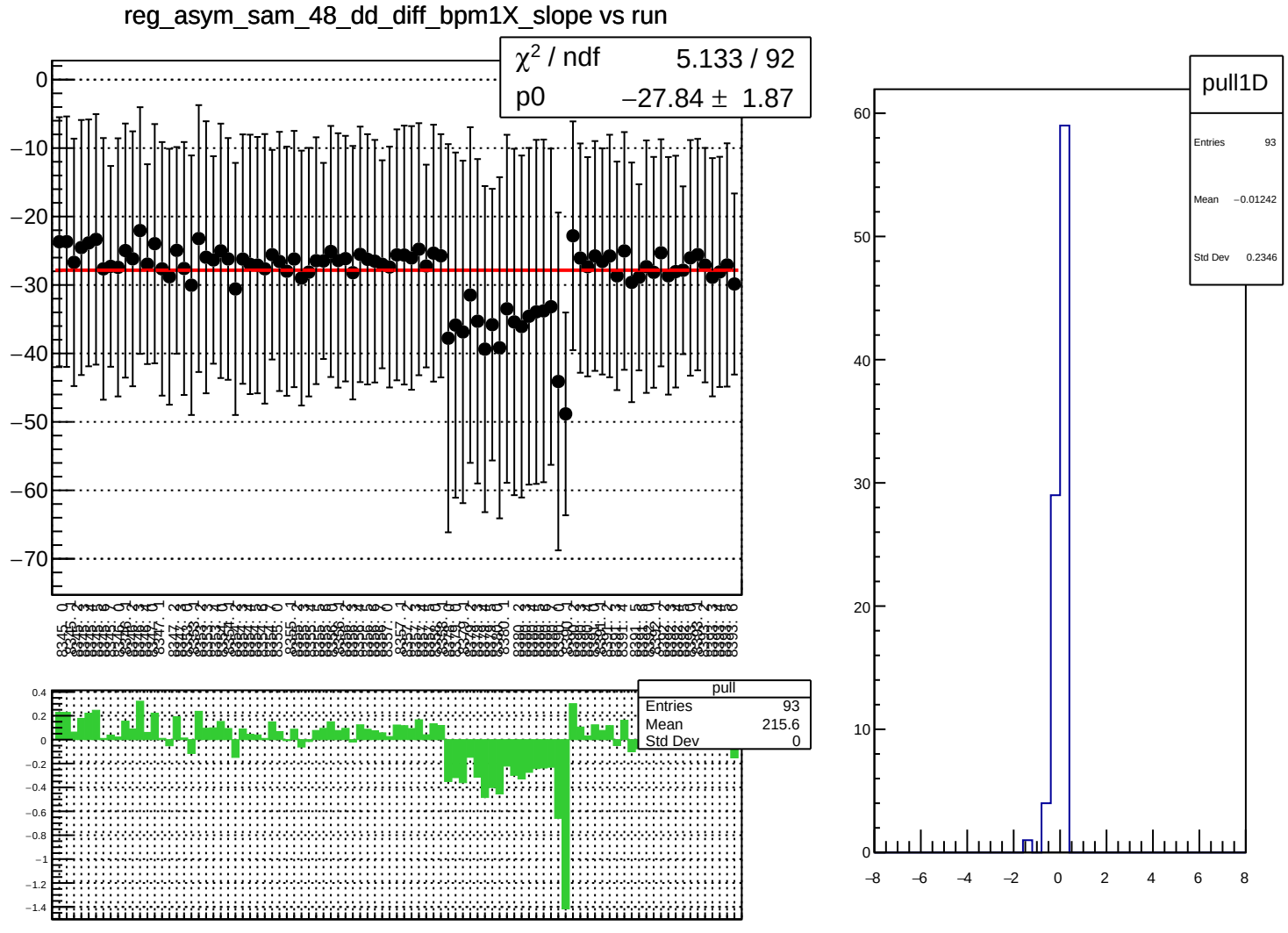

pull1D
Entries 93
Mean 0.02865
Std Dev 0.3663

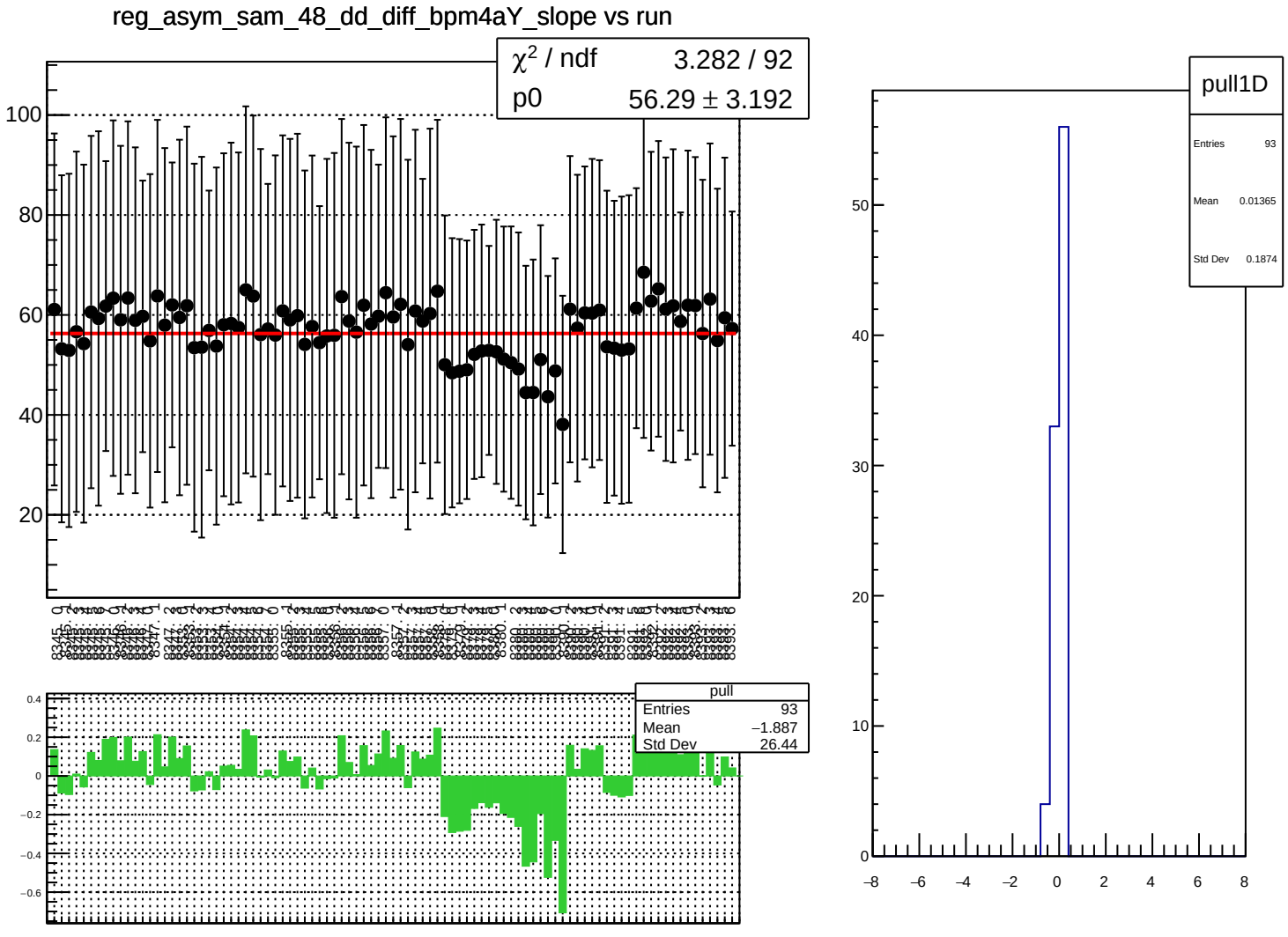

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.945 / 92
p0 −84.57 ± 2.357
pull
Entries 93
Mean −297
Std Dev 0
pull1D
Entries 93
Mean −0.006551
Std Dev 0.2305

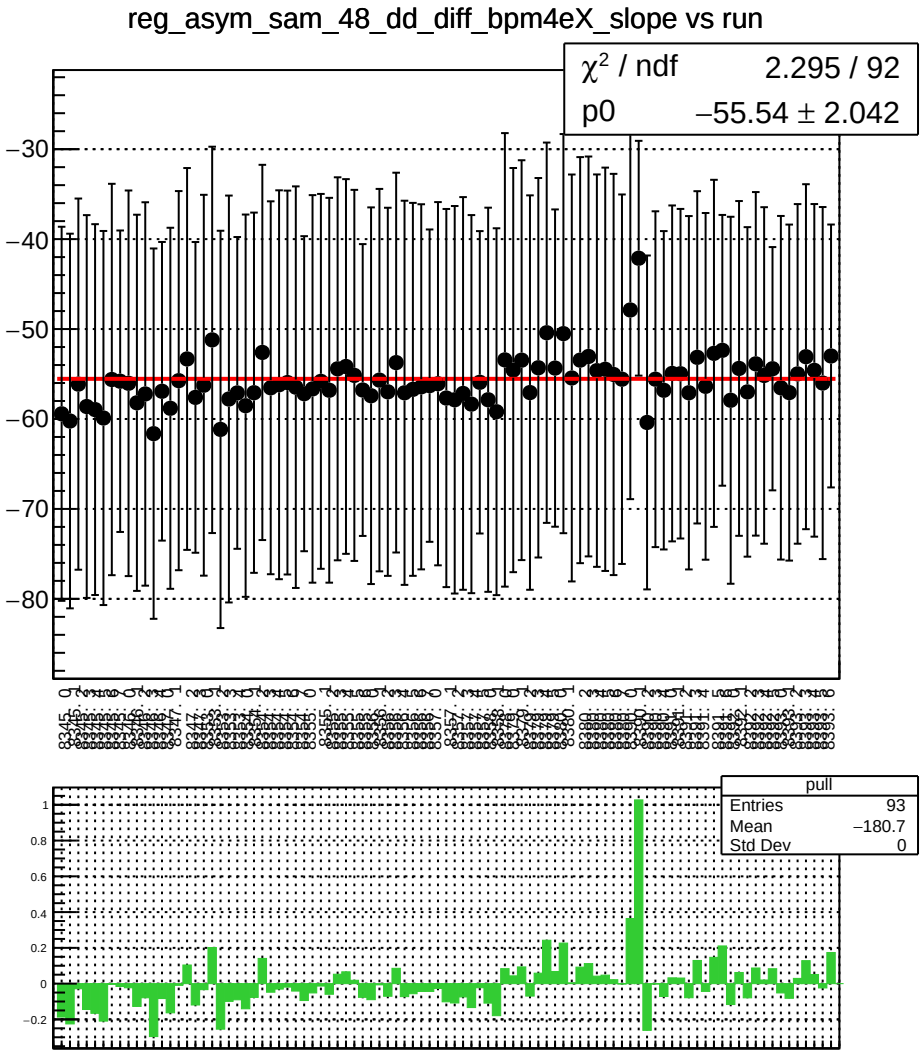

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.405 / 92
p0 59.73 ± 3.924
pull
Entries 93
Mean −26.66
Std Dev 26.49

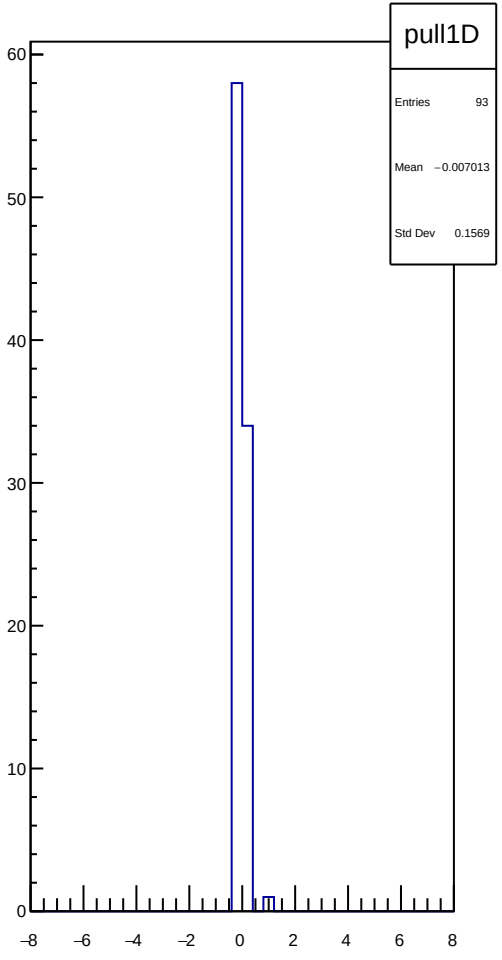

pull1D
Entries 93
Mean −0.005188
Std Dev 0.2176

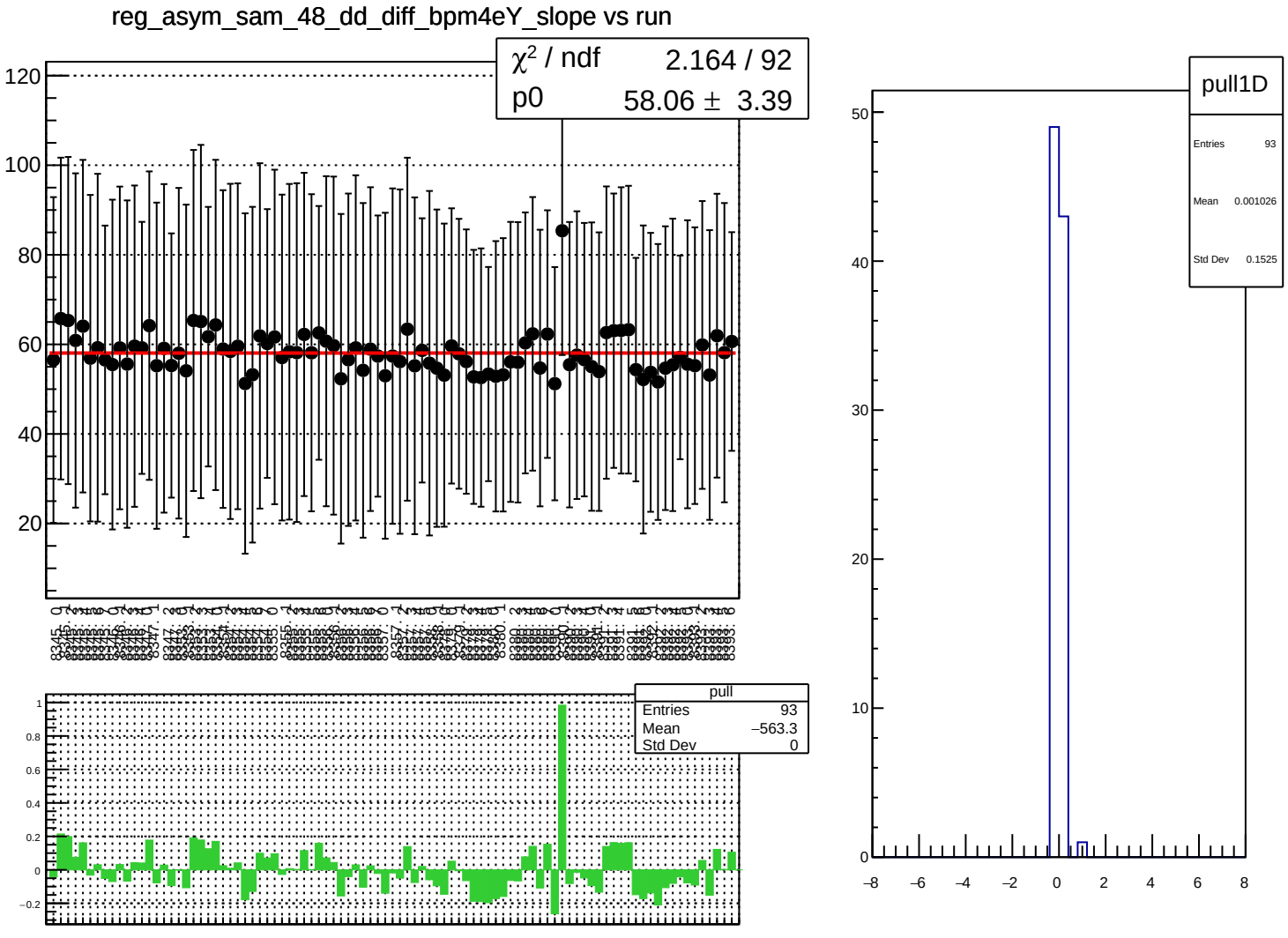

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 39.32 / 92
p0 0.7677 ± 0.2216
pull
Entries 93
Mean −47.67
Std Dev 0
pull1D
Entries 93
Mean 0.0358
Std Dev 0.6492

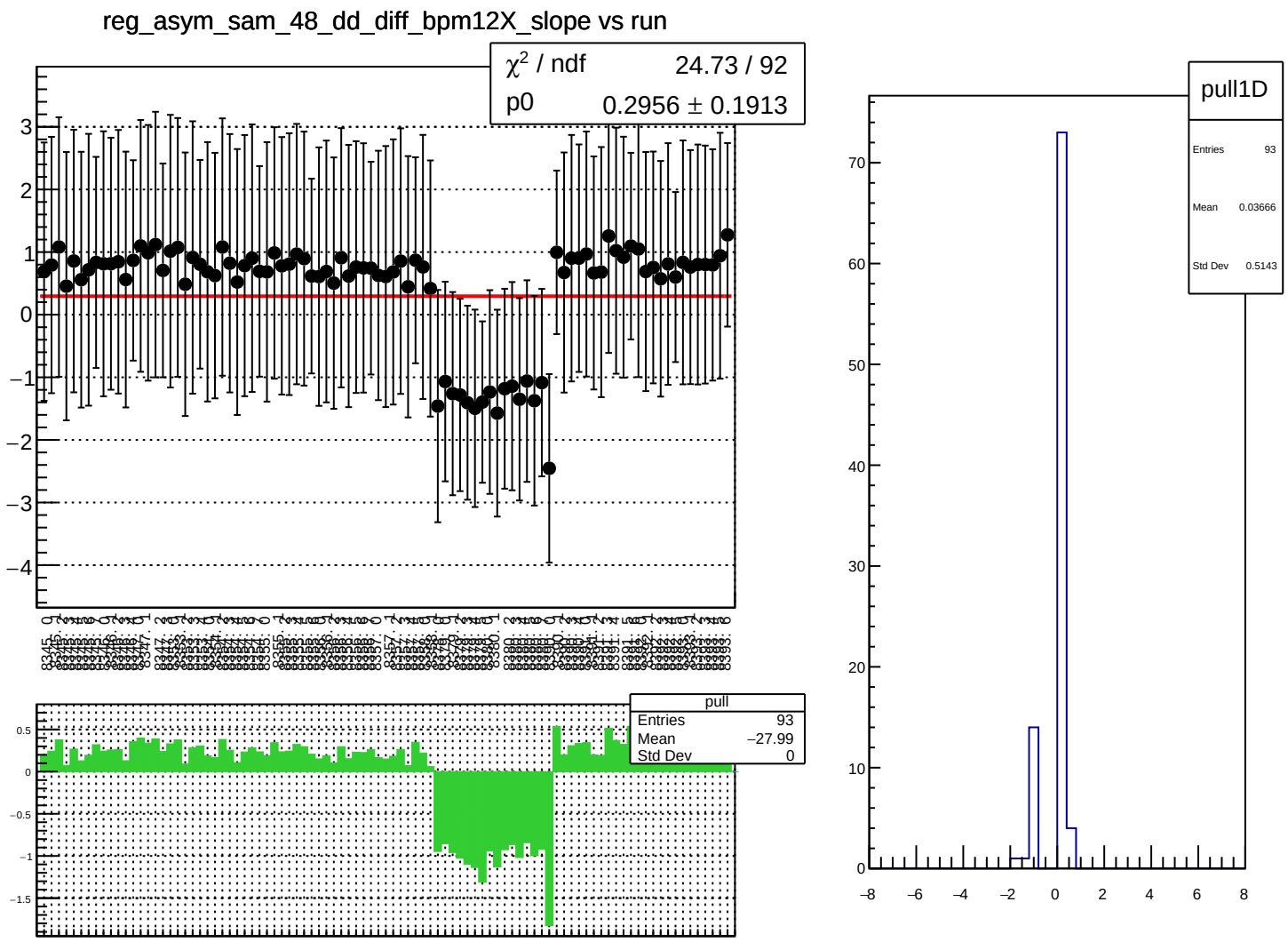

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 5.133 / 92
p0 −27.84 ± 1.87
pull
Entries 93
Mean 215.6
Std Dev 0
pull1D
Entries 93
Mean −0.01242
Std Dev 0.2346

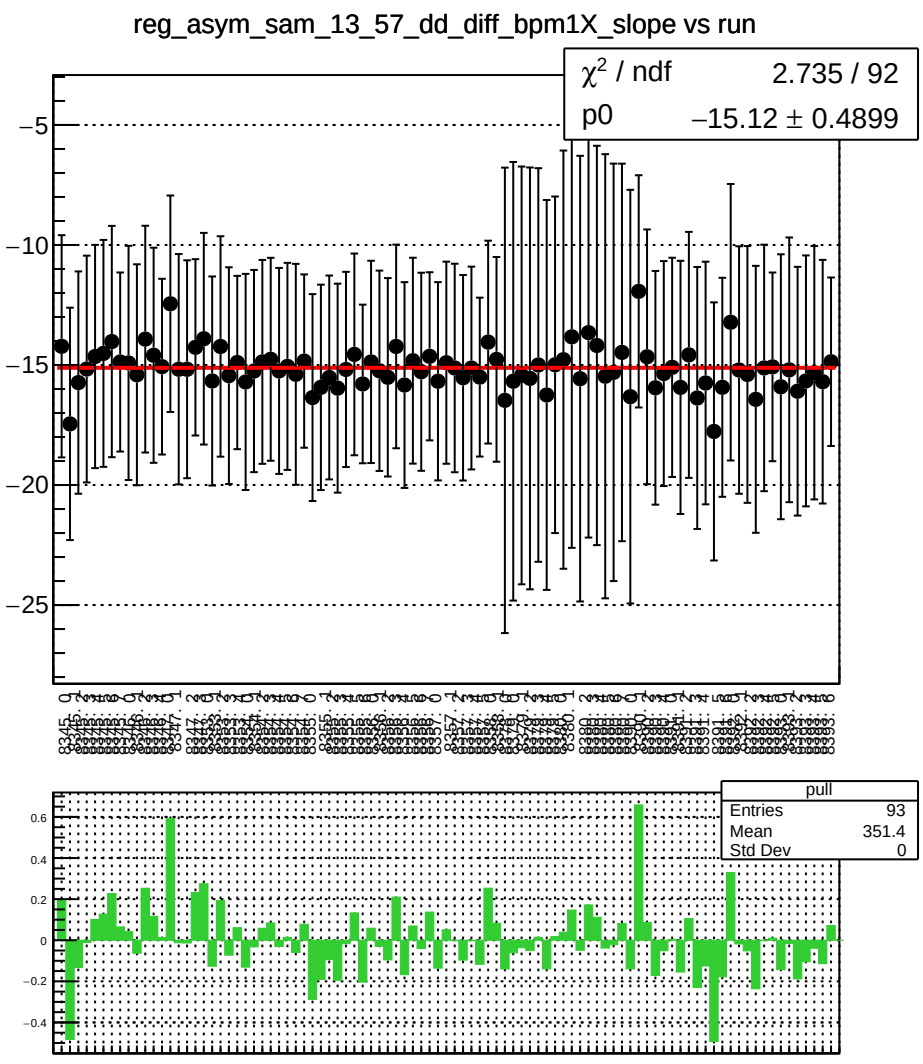

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.282 / 92
p0 56.29 ± 3.192
pull
Entries 93
Mean −1.887
Std Dev 26.44
pull1D
Entries 93
Mean 0.01365
Std Dev 0.1874

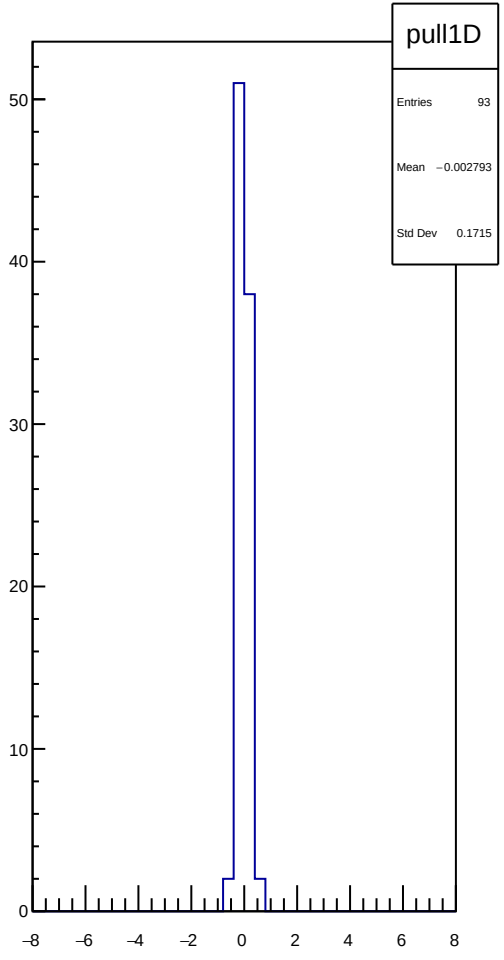

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.295 / 92
p0 −55.54 ± 2.042
pull
Entries 93
Mean −180.7
Std Dev 0

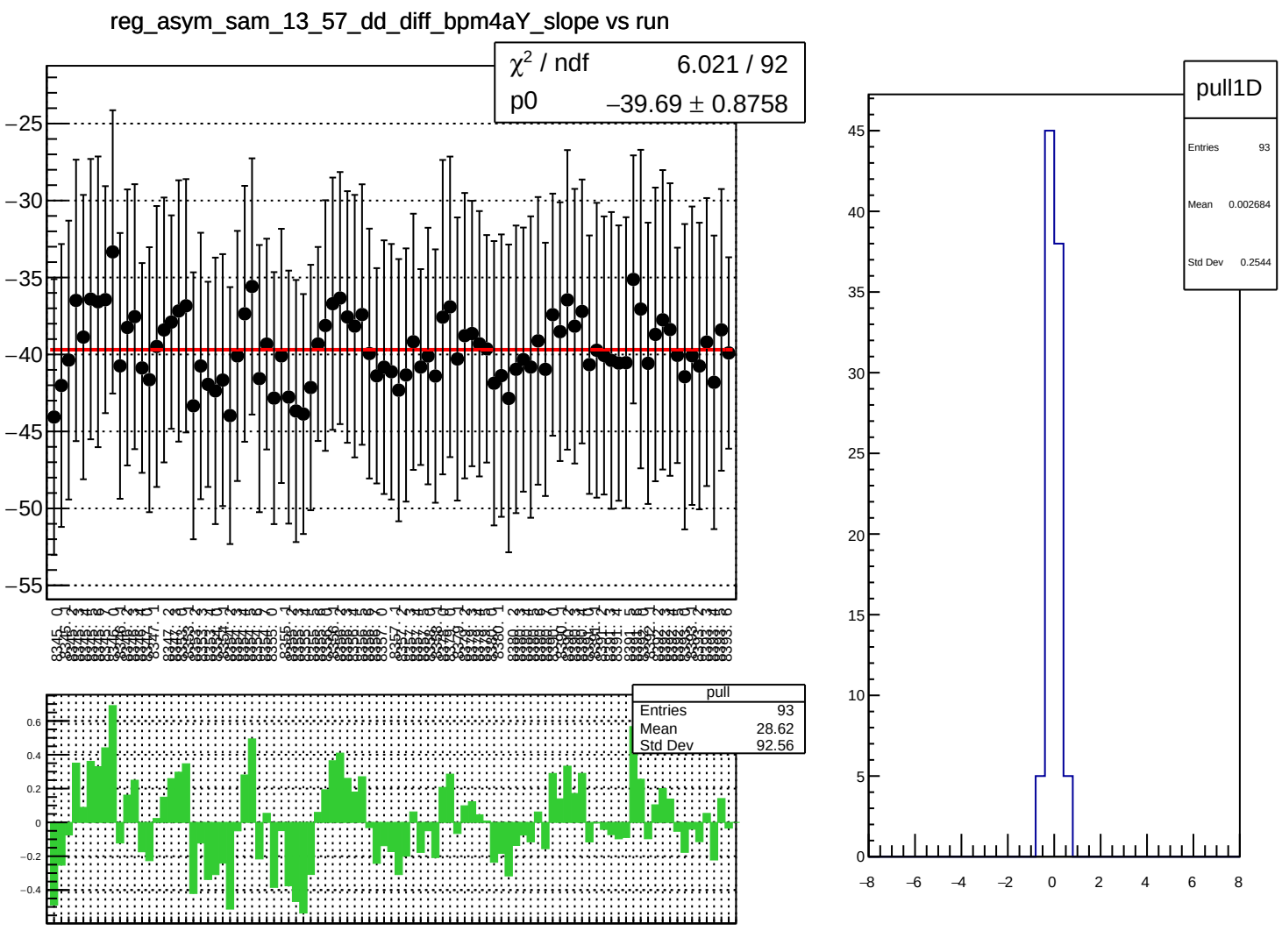

pull1D
Entries 93
Mean −0.007013
Std Dev 0.1569

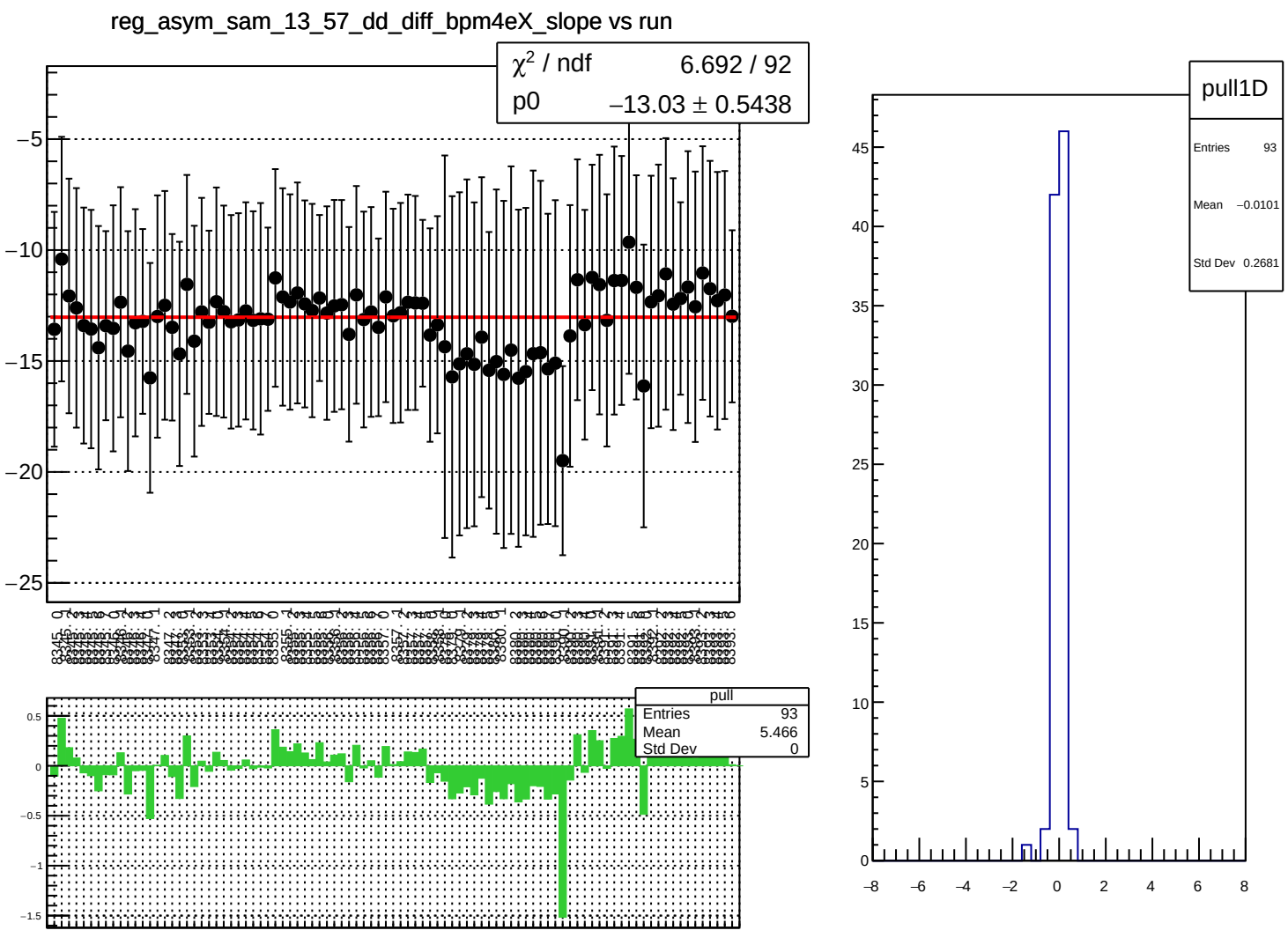

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.164 / 92
p0 58.06 ± 3.39
pull
Entries 93
Mean −563.3
Std Dev 0
pull1D
Entries 93
Mean 0.001026
Std Dev 0.1525

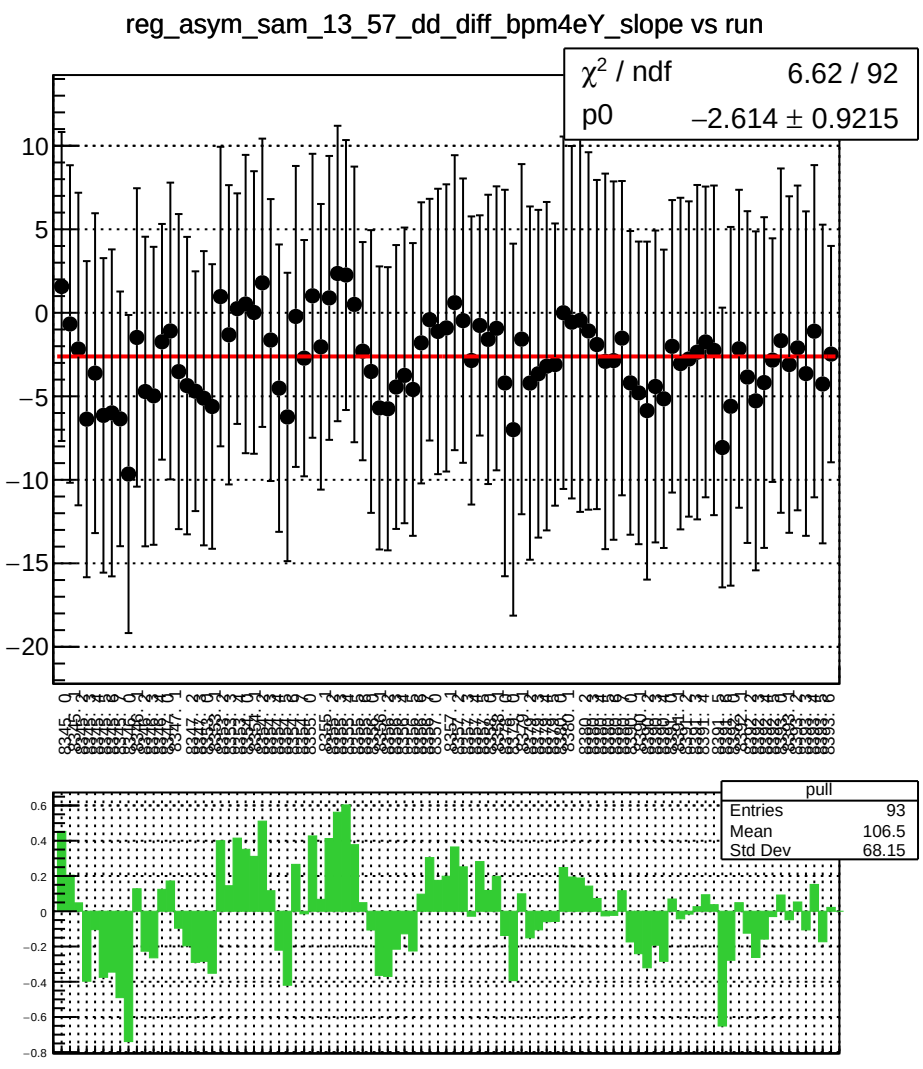

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 24.73 / 92
p0 0.2956 ± 0.1913
pull
Entries 93
Mean −27.99
Std Dev 0
pull1D
Entries 93
Mean 0.03666
Std Dev 0.5143

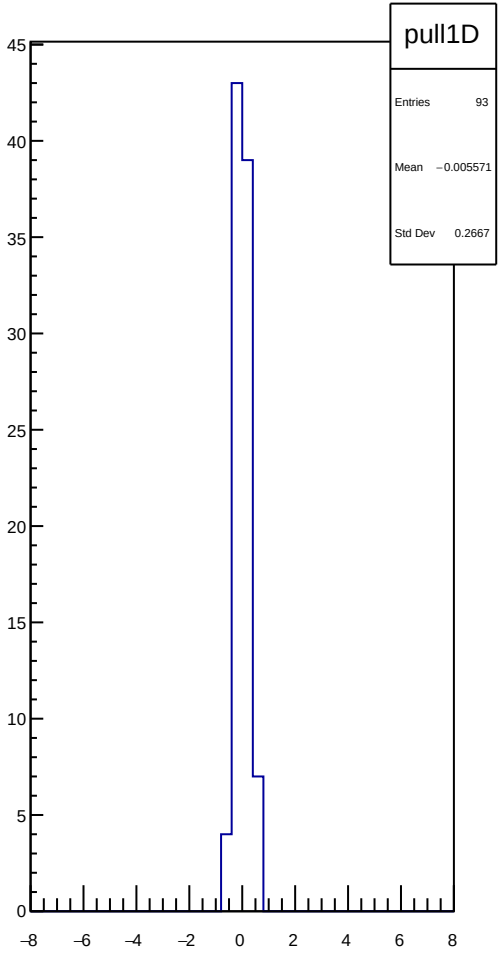

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 2.735 / 92
p0 −15.12 ± 0.4899
−5
−10
−15
−20
−25
pull
Entries 93
Mean 351.4
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4

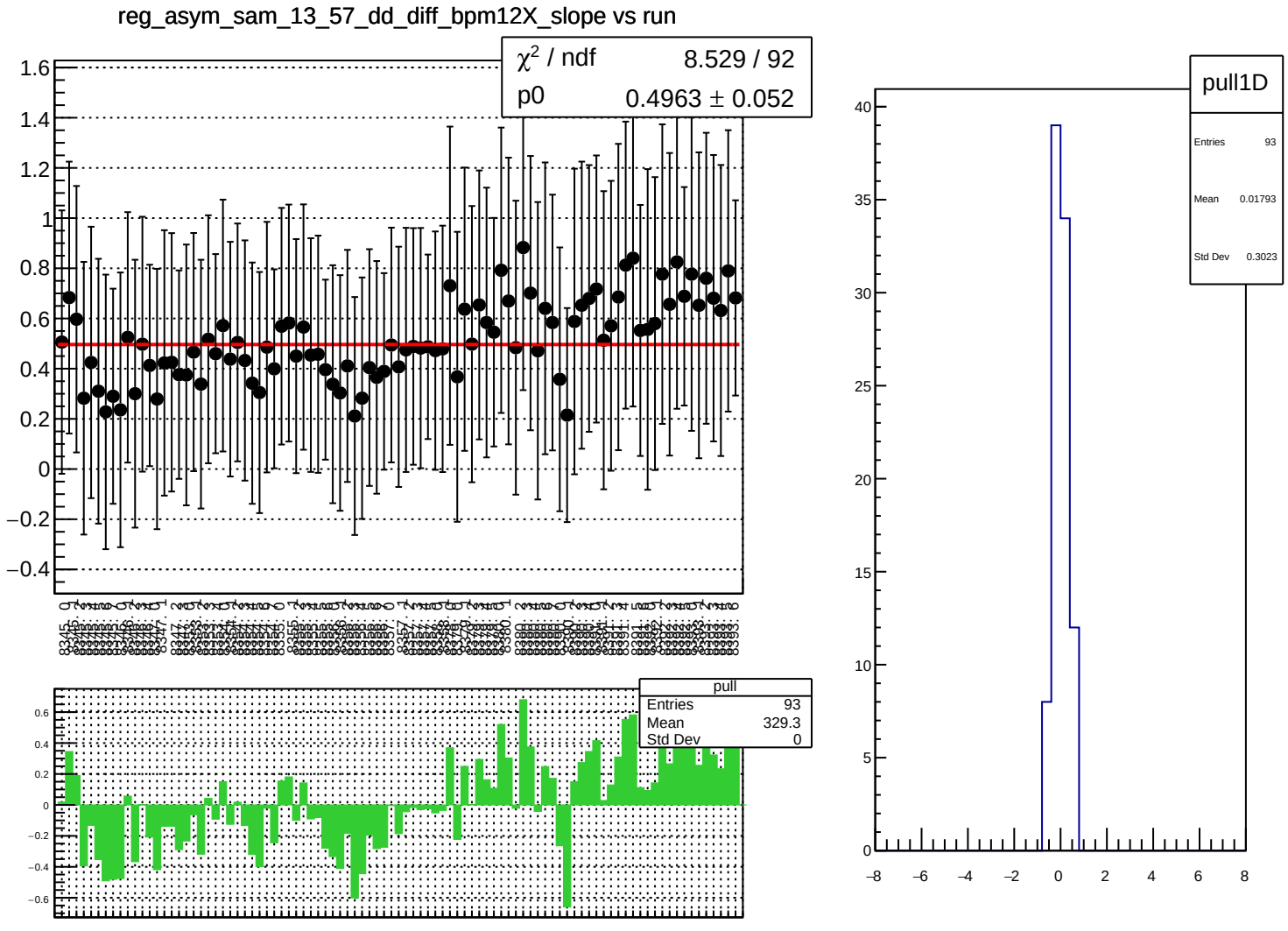

pull1D
Entries 93
Mean −0.002793
Std Dev 0.1715
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

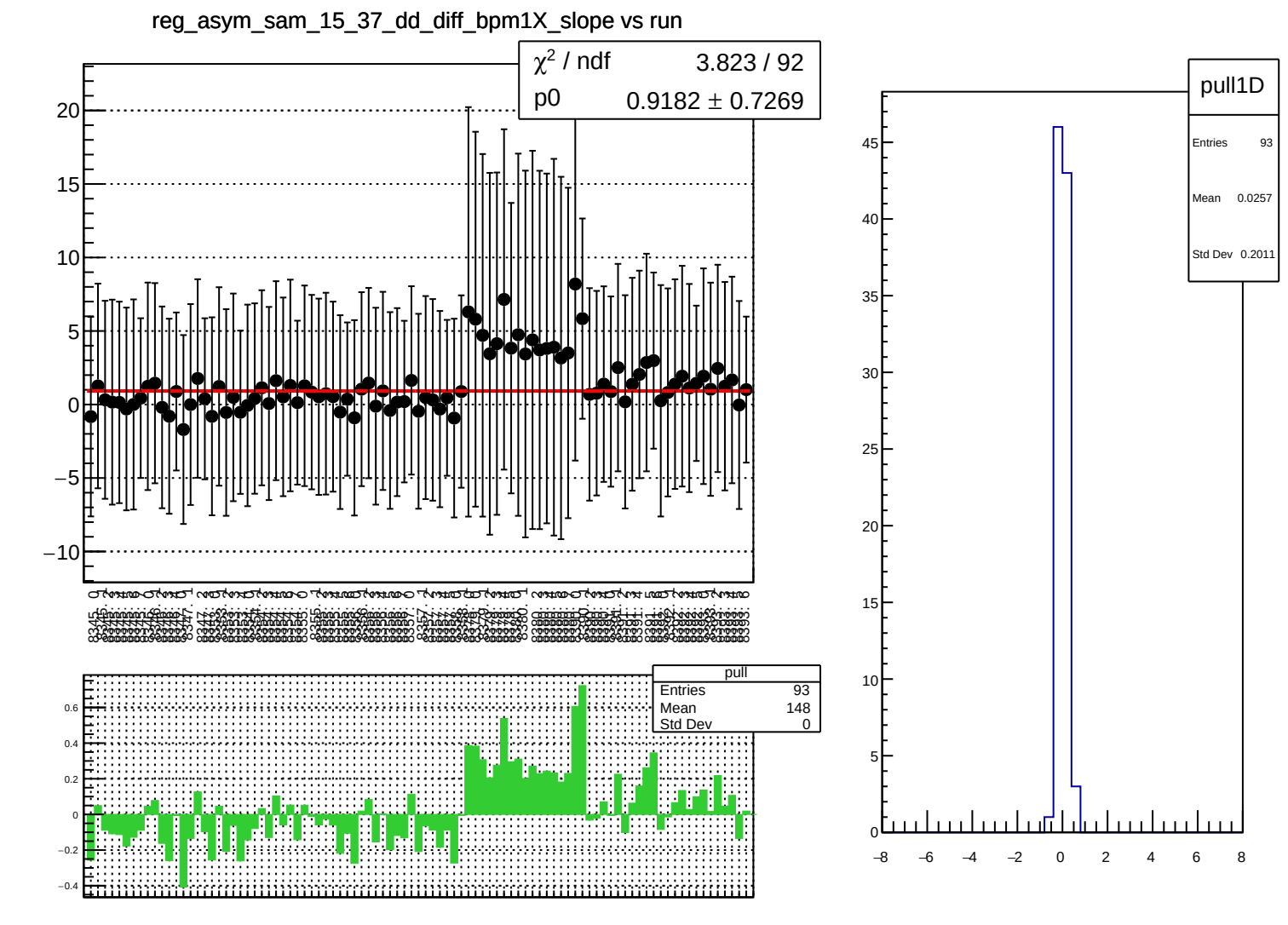

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.021 / 92
p0 −39.69 ± 0.8758
pull
Entries 93
Mean 28.62
Std Dev 92.56
pull1D
Entries 93
Mean 0.002684
Std Dev 0.2544

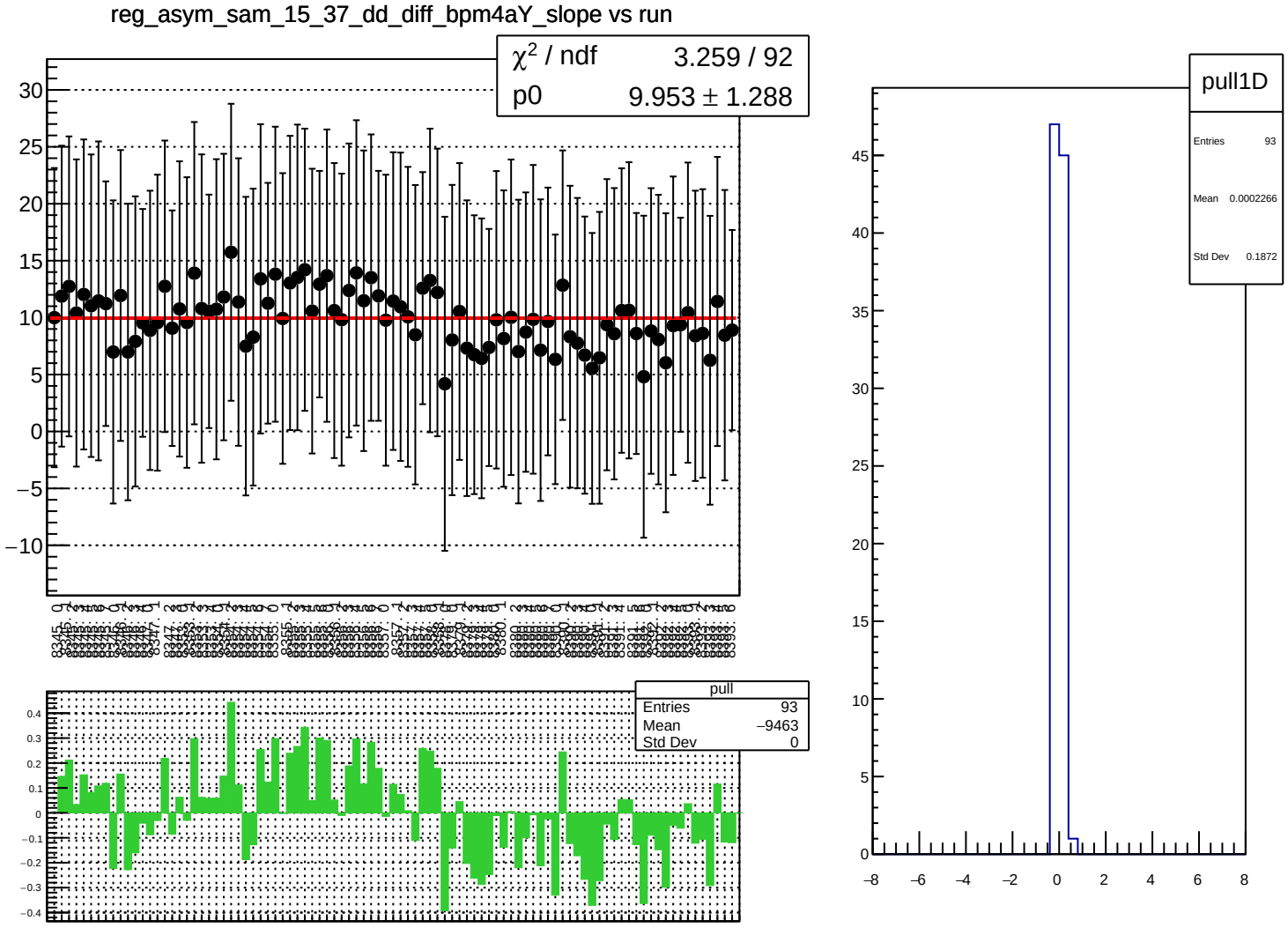

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.692 / 92
p0 −13.03 ± 0.5438
−5
−10
−15
−20
−25
pull
Entries 93
Mean 5.466
Std Dev 0
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean −0.0101
Std Dev 0.2681
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

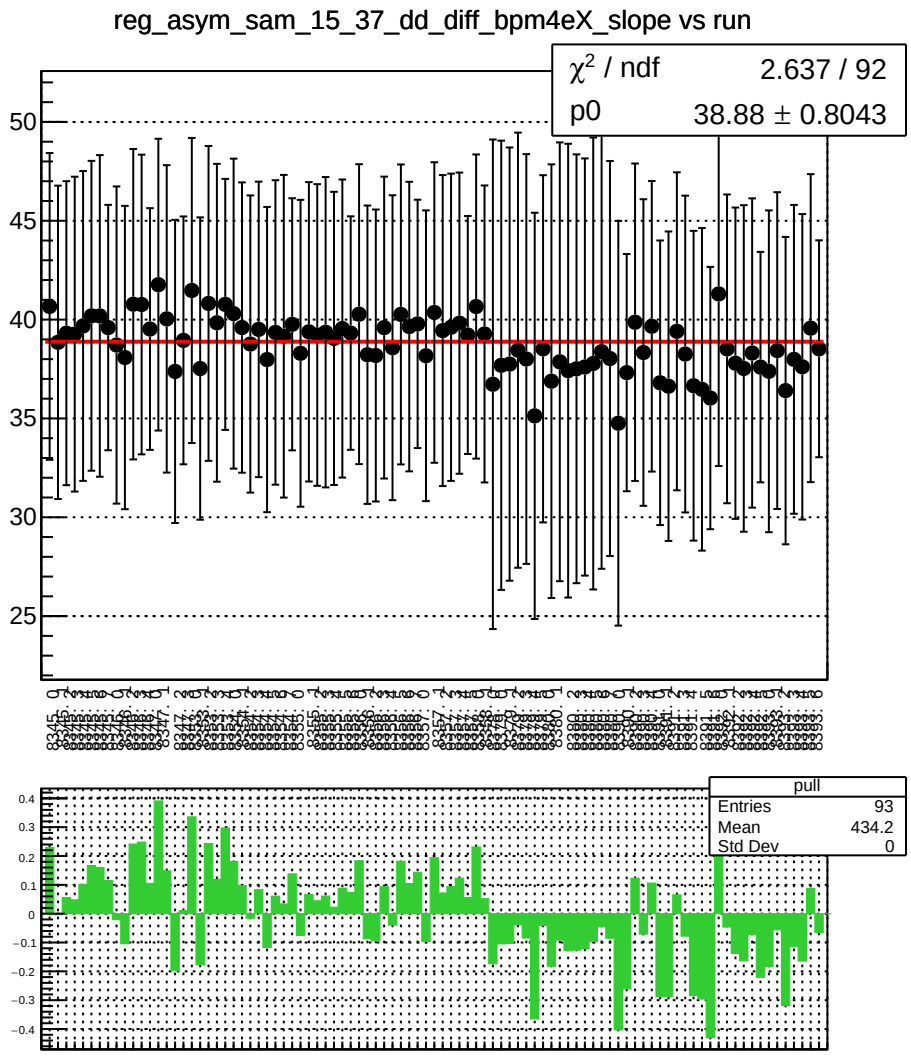

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.62 / 92
p0 −2.614 ± 0.9215
pull
Entries 93
Mean 106.5
Std Dev 68.15

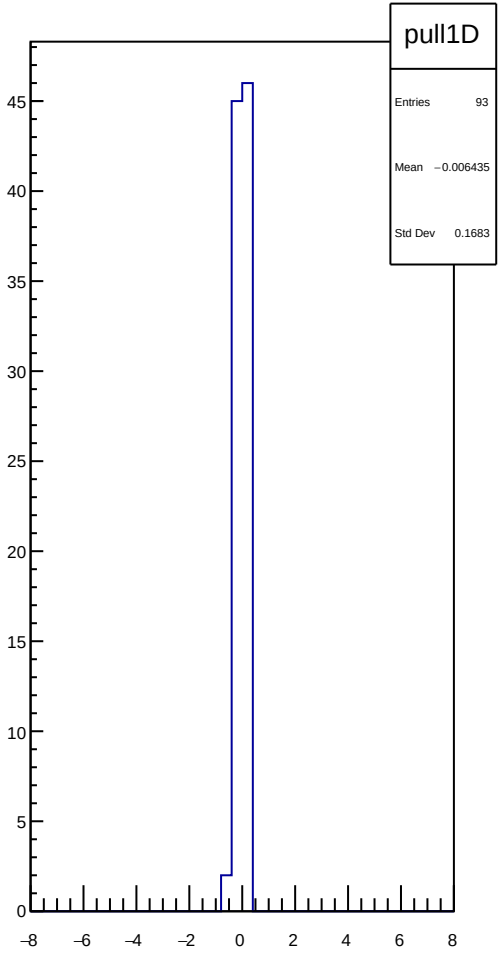

pull1D
Entries 93
Mean −0.005571
Std Dev 0.2667

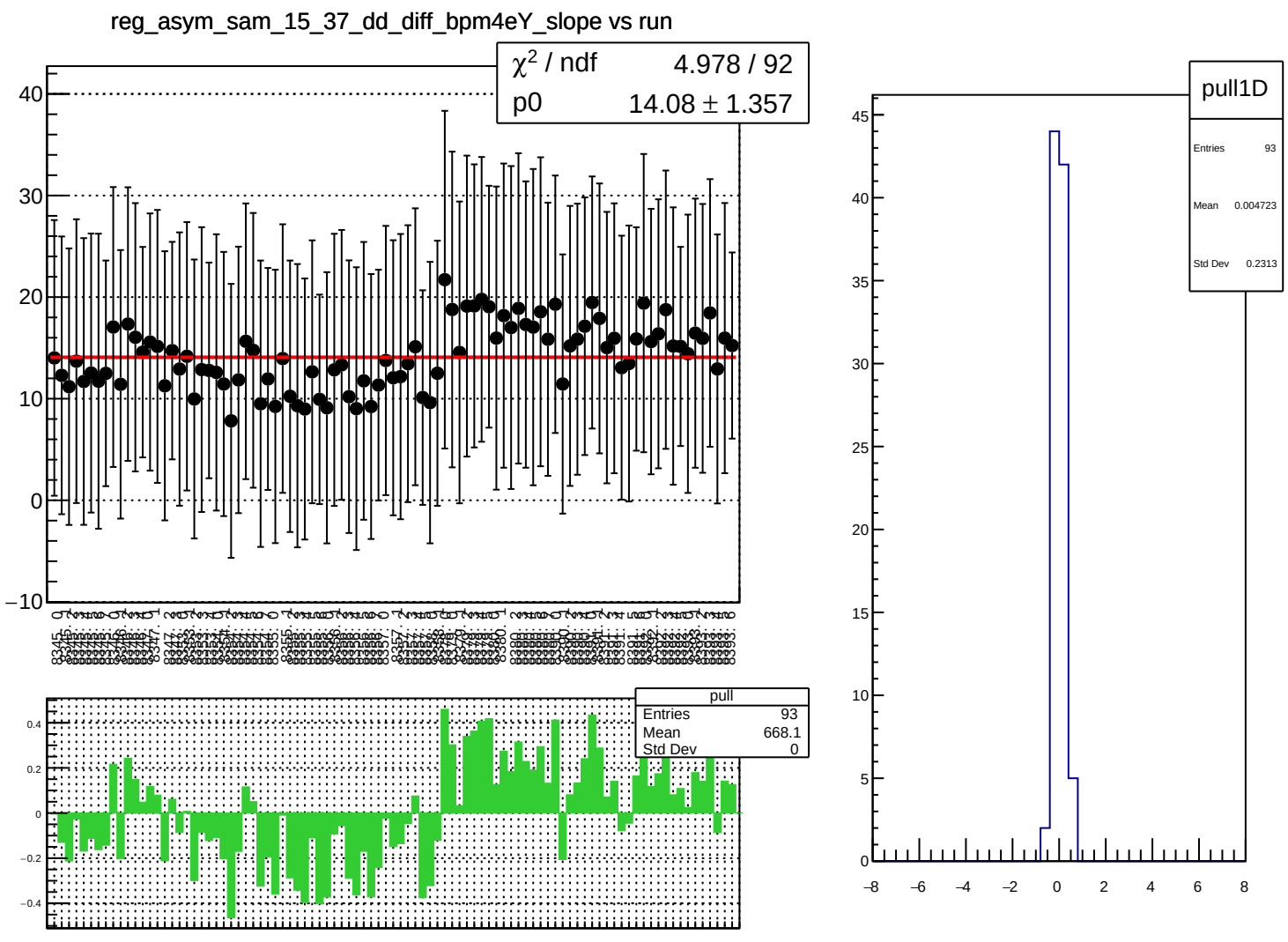

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 8.529 / 92
p0 0.4963 ± 0.052
pull
Entries 93
Mean 329.3
Std Dev 0
pull1D
Entries 93
Mean 0.01793
Std Dev 0.3023

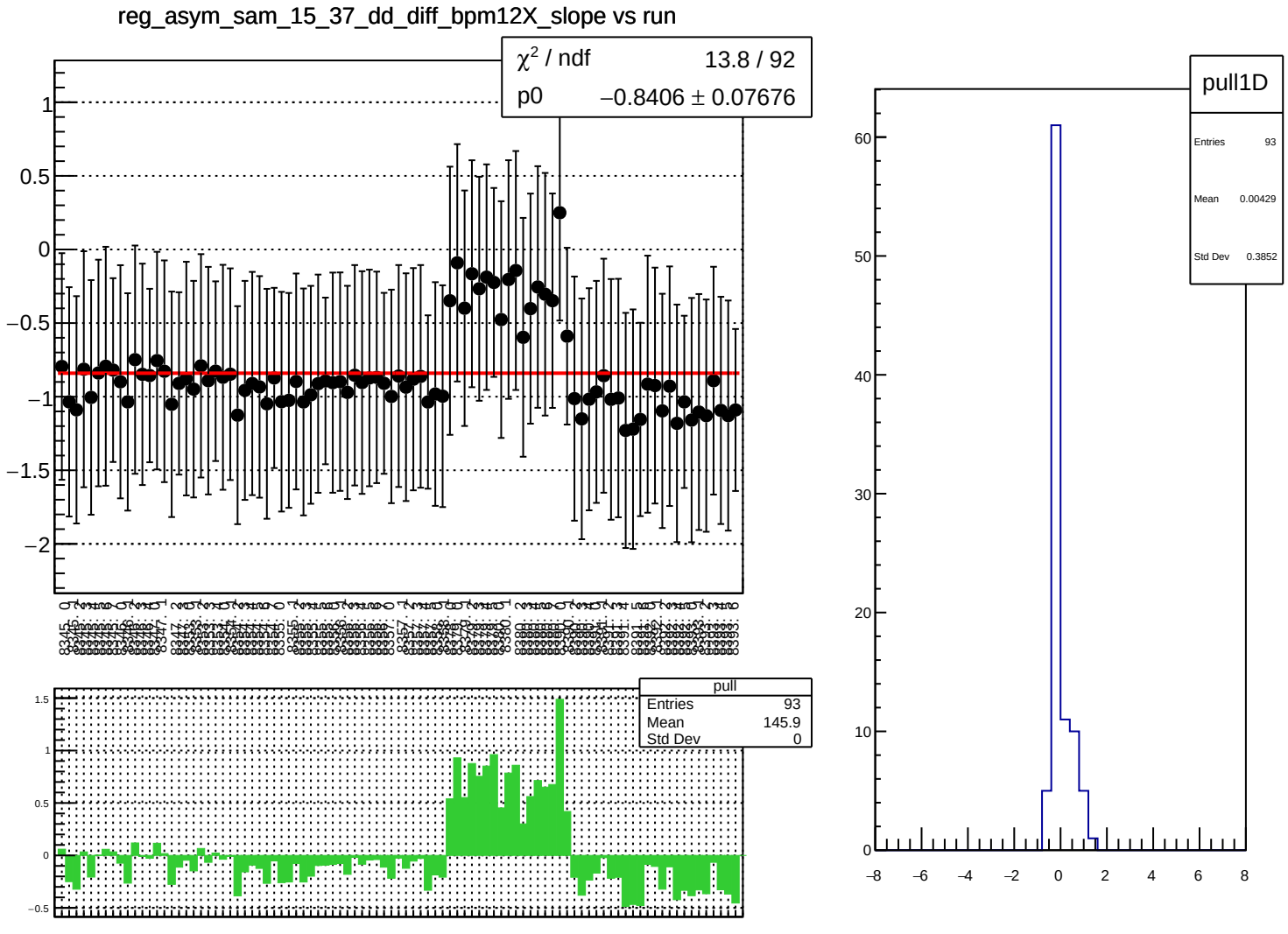

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 3.823 / 92
p0 0.9182 ± 0.7269
pull
Entries 93
Mean 148
Std Dev 0
pull1D
Entries 93
Mean 0.0257
Std Dev 0.2011

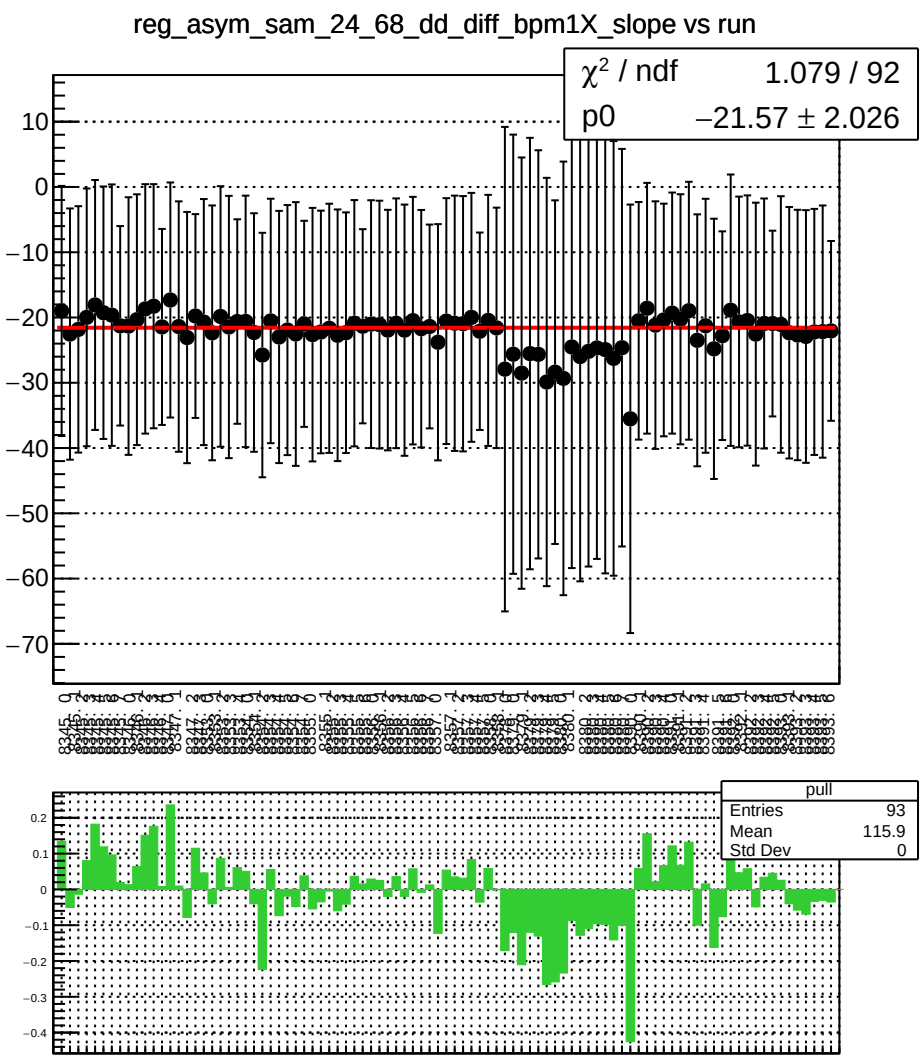

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.259 / 92
p0 9.953 ± 1.288
pull
Entries 93
Mean −9463
Std Dev 0
pull1D
Entries 93
Mean 0.0002266
Std Dev 0.1872

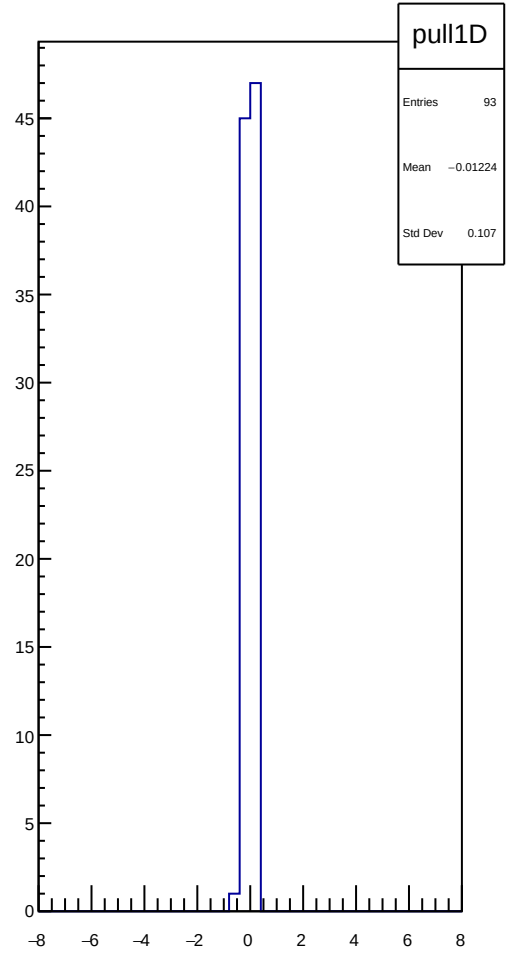

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.637 / 92
p0 38.88 ± 0.8043
pull
Entries 93
Mean 434.2
Std Dev 0

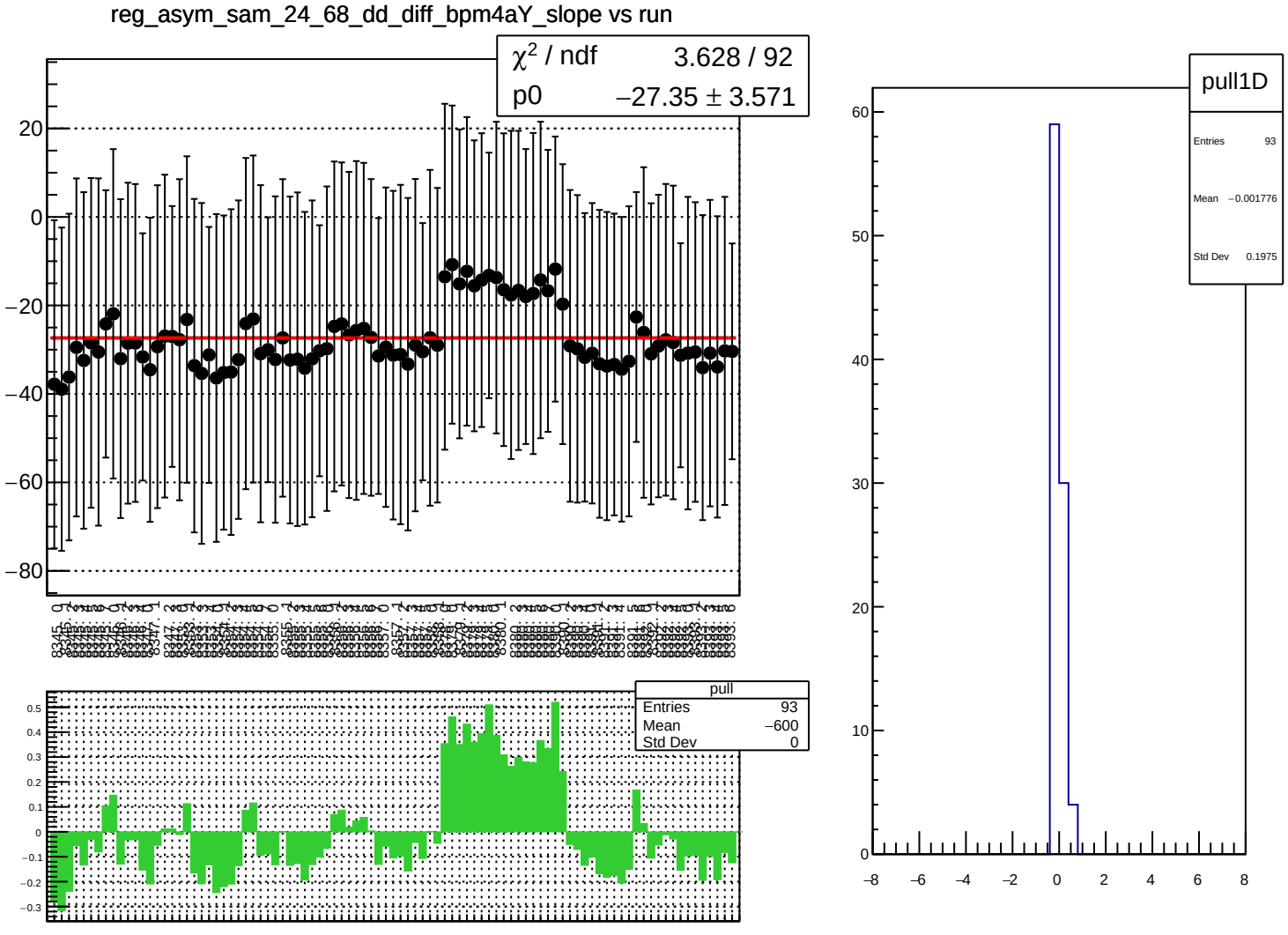

pull1D
Entries 93
Mean −0.006435
Std Dev 0.1683

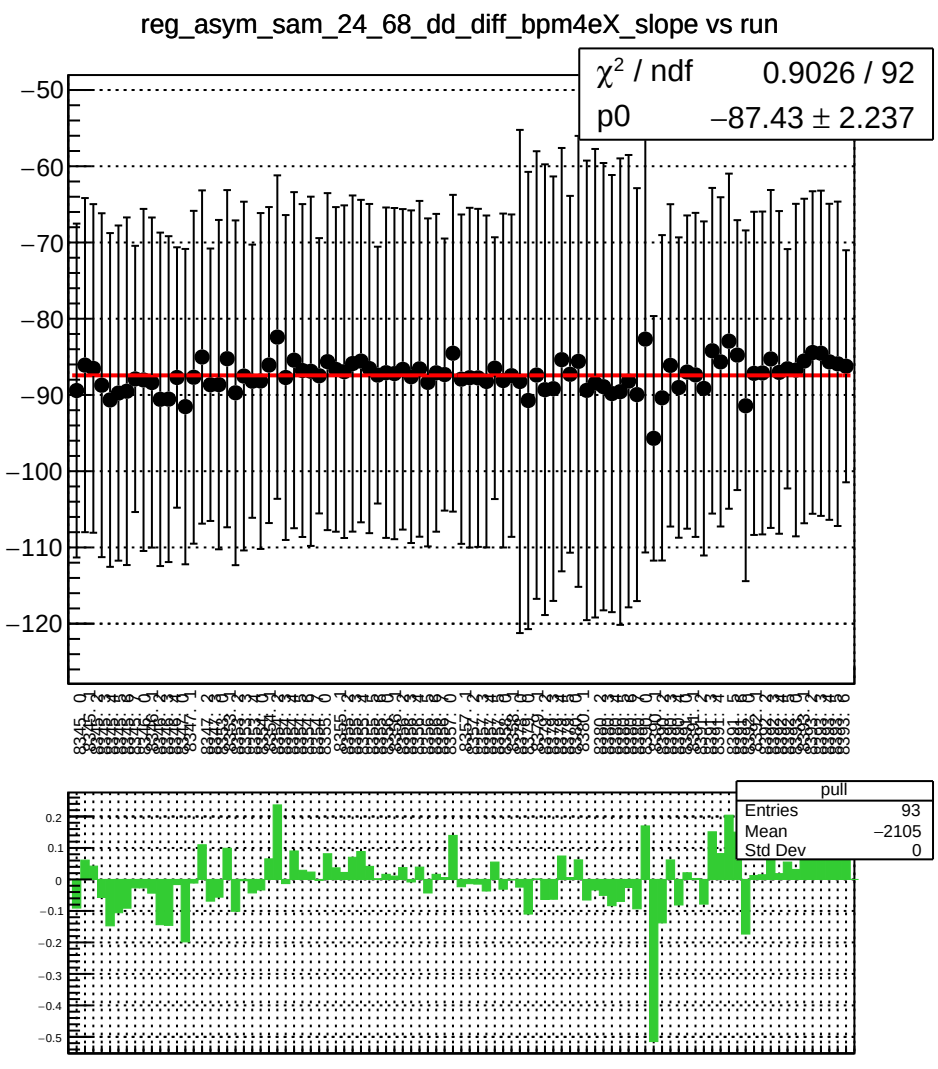

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.978 / 92
p0 14.08 ± 1.357
pull
Entries 93
Mean 668.1
Std Dev 0
pull1D
Entries 93
Mean 0.004723
Std Dev 0.2313

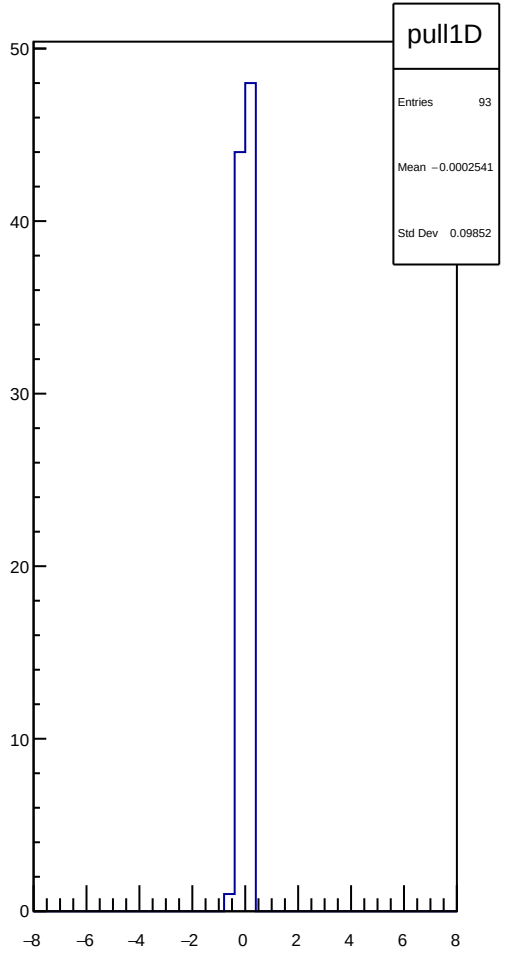

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 13.8 / 92
p0 −0.8406 ± 0.07676
pull
Entries 93
Mean 145.9
Std Dev 0
pull1D
Entries 93
Mean 0.00429
Std Dev 0.3852

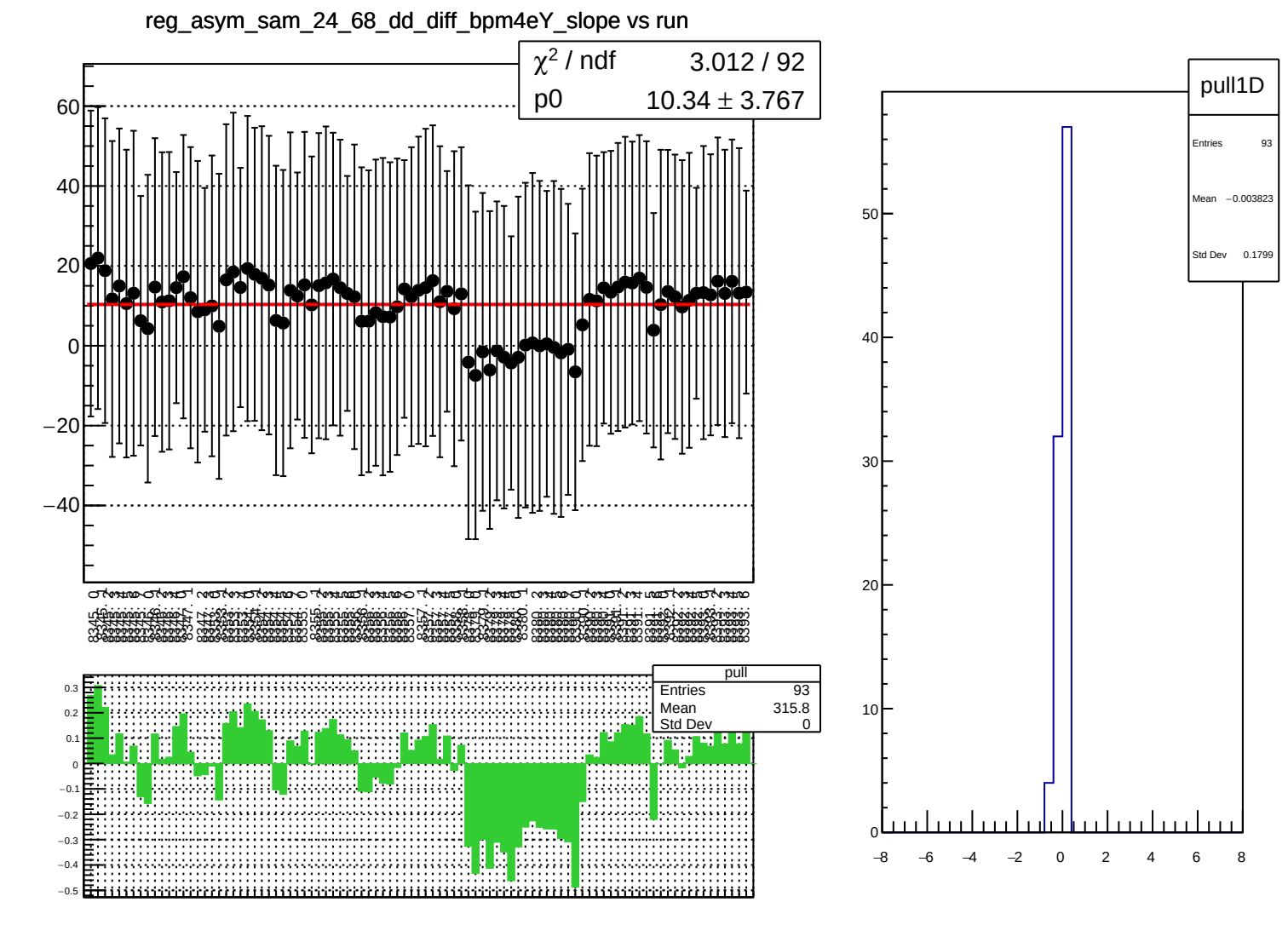

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 1.079 / 92
p0 −21.57 ± 2.026
pull
Entries 93
Mean 115.9
Std Dev 0

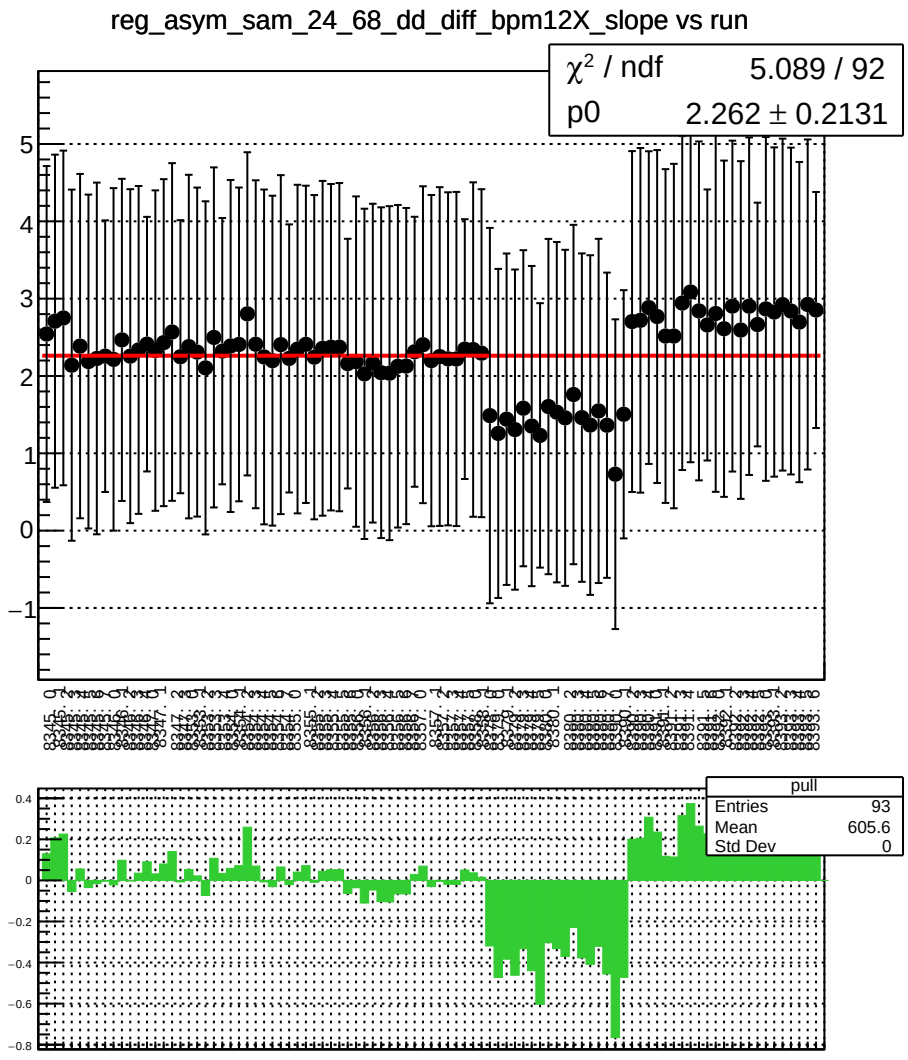

pull1D
Entries 93
Mean −0.01224
Std Dev 0.107

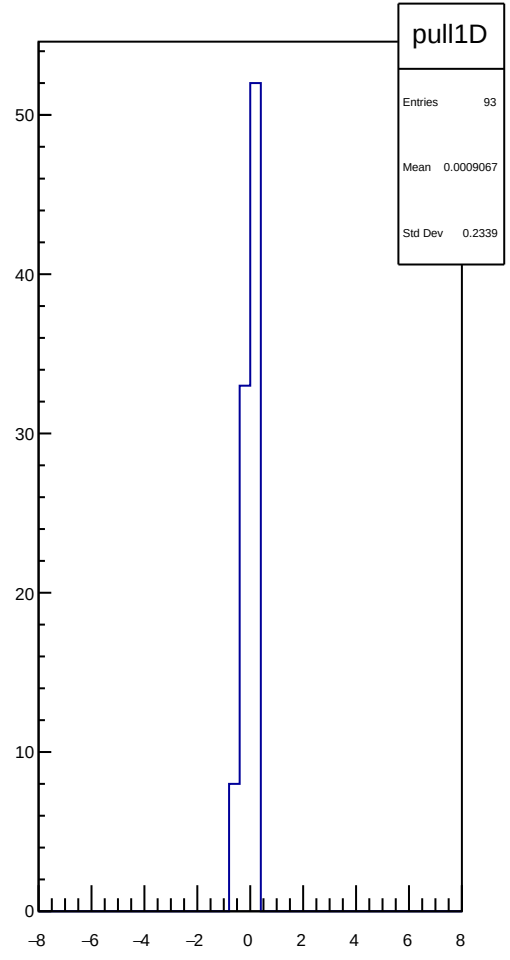

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.628 / 92
p0 −27.35 ± 3.571
pull
Entries 93
Mean −600
Std Dev 0
pull1D
Entries 93
Mean −0.001776
Std Dev 0.1975

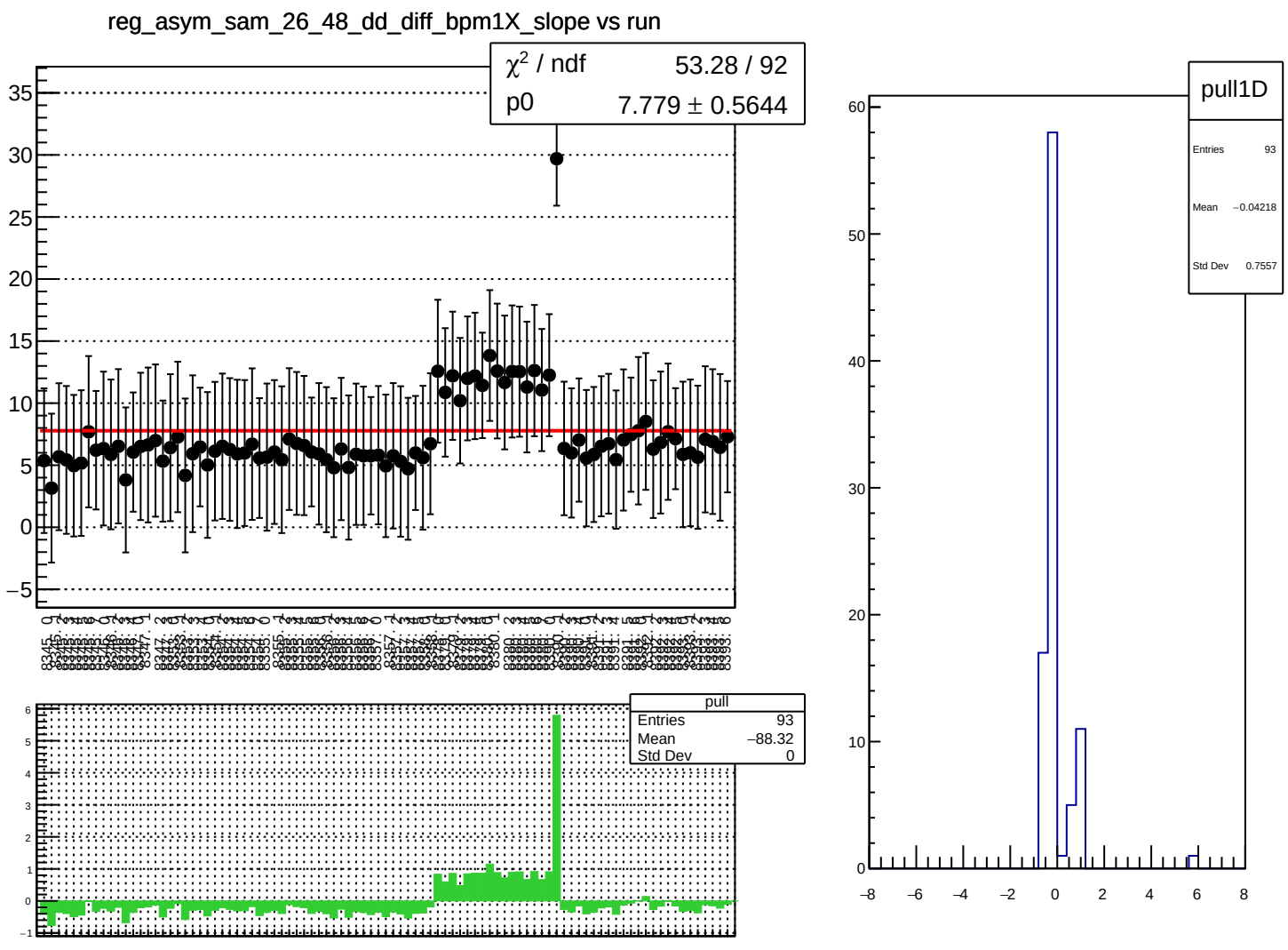

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.9026 / 92
p0 −87.43 ± 2.237
pull
Entries 93
Mean −2105
Std Dev 0

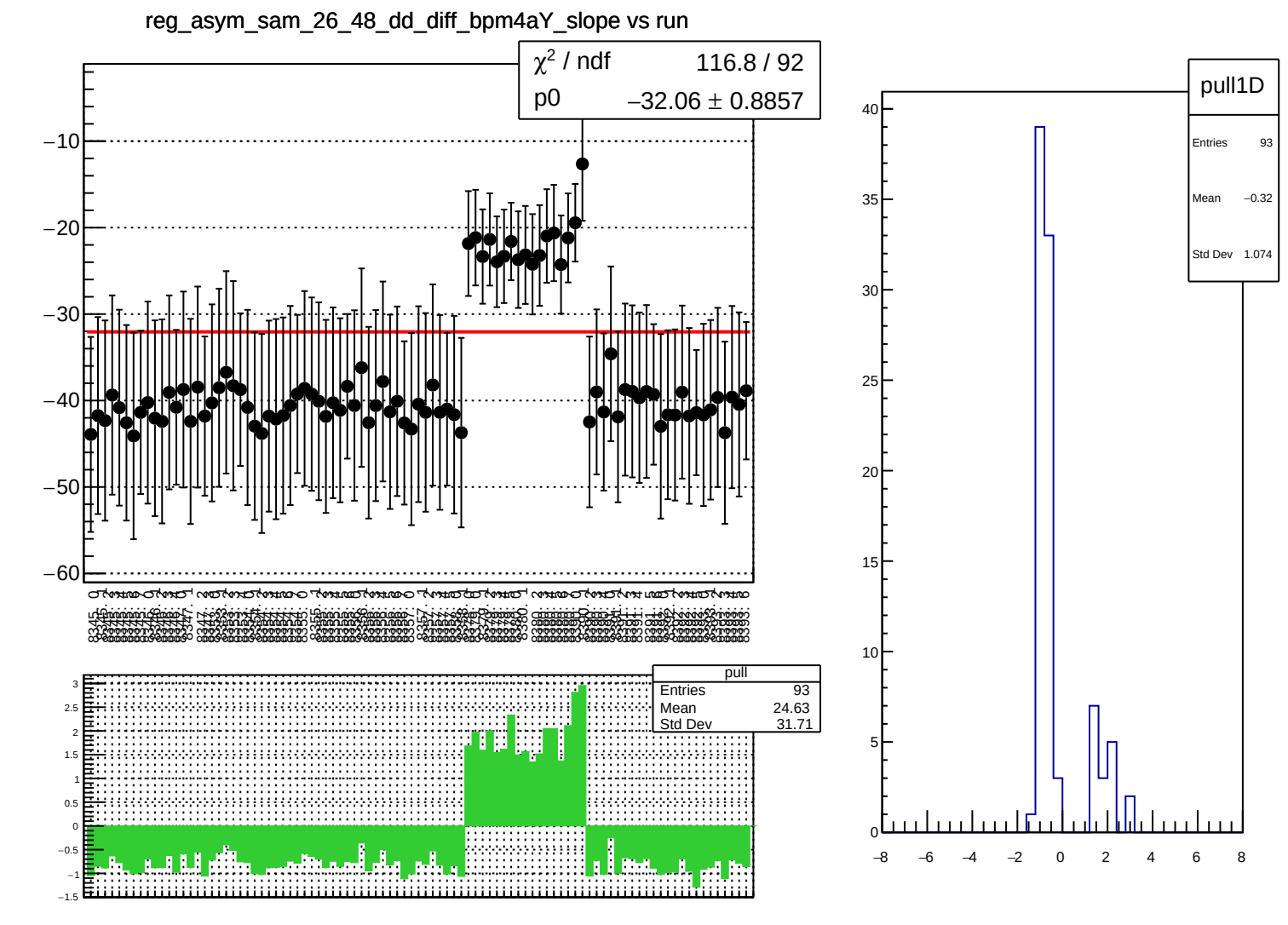

pull1D
Entries 93
Mean −0.0002541
Std Dev 0.09852

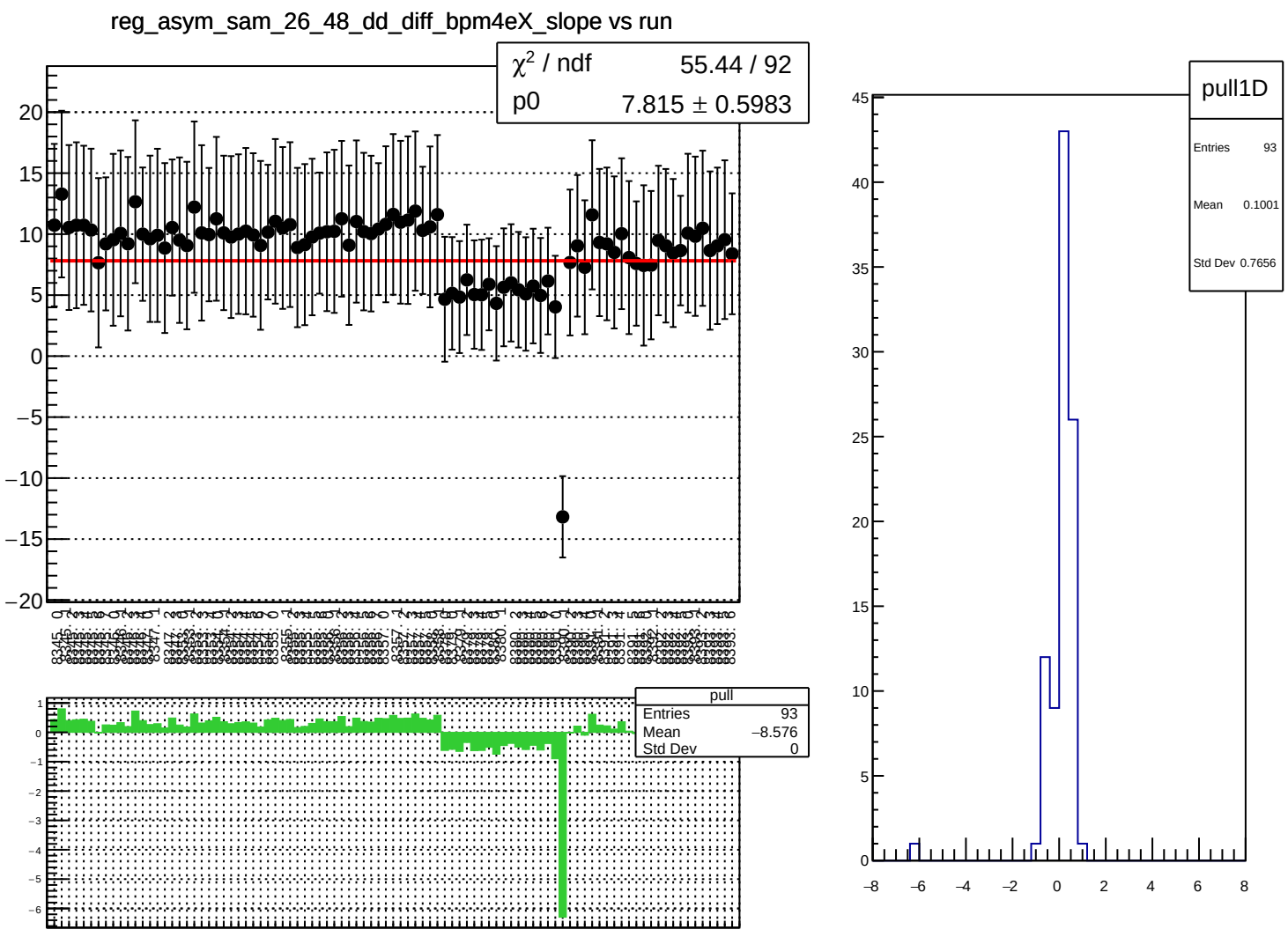

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.012 / 92
p0 10.34 ± 3.767
pull
Entries 93
Mean 315.8
Std Dev 0
pull1D
Entries 93
Mean −0.003823
Std Dev 0.1799

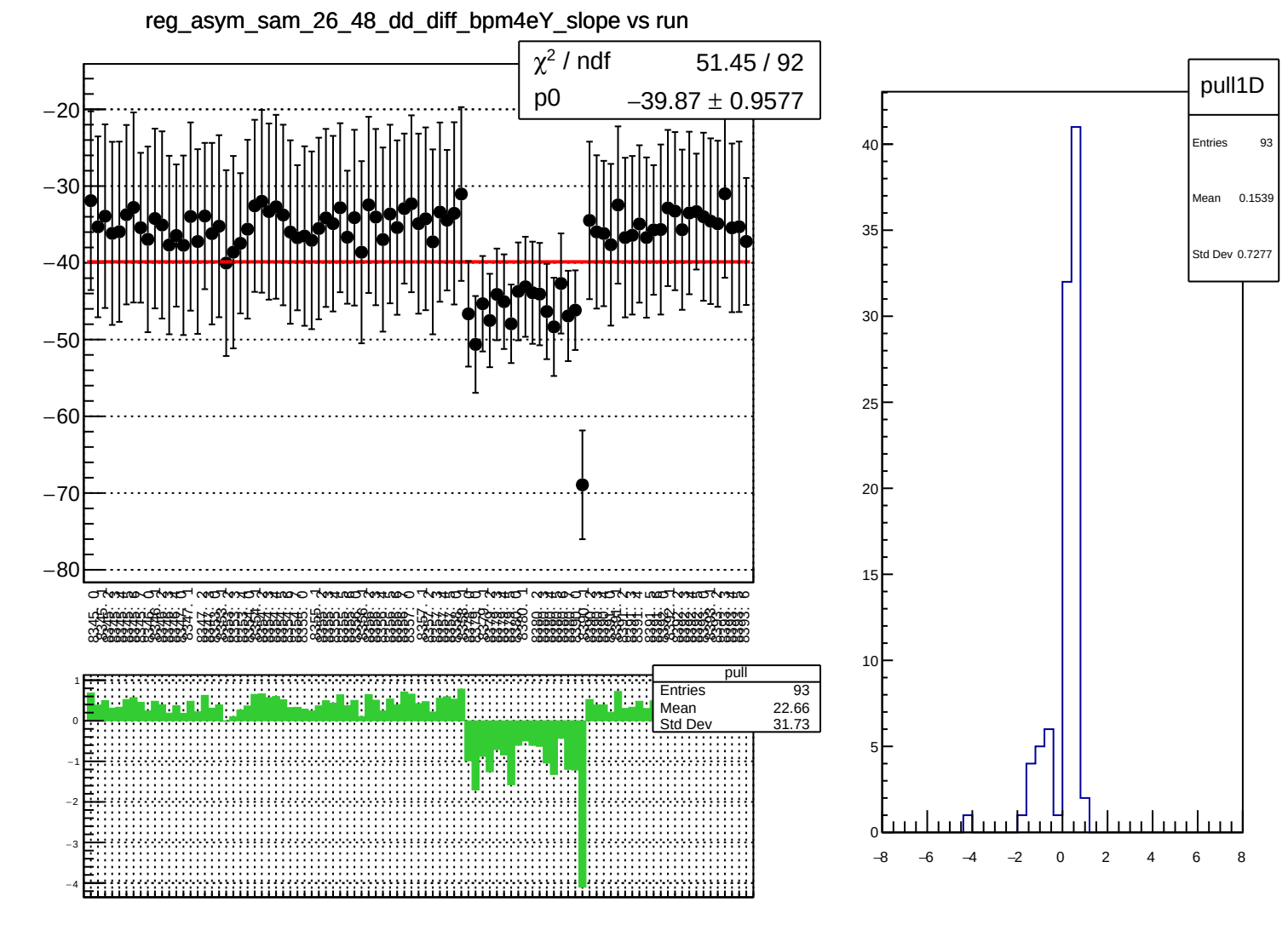

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 5.089 / 92
p0 2.262 ± 0.2131
pull
Entries 93
Mean 605.6
Std Dev 0

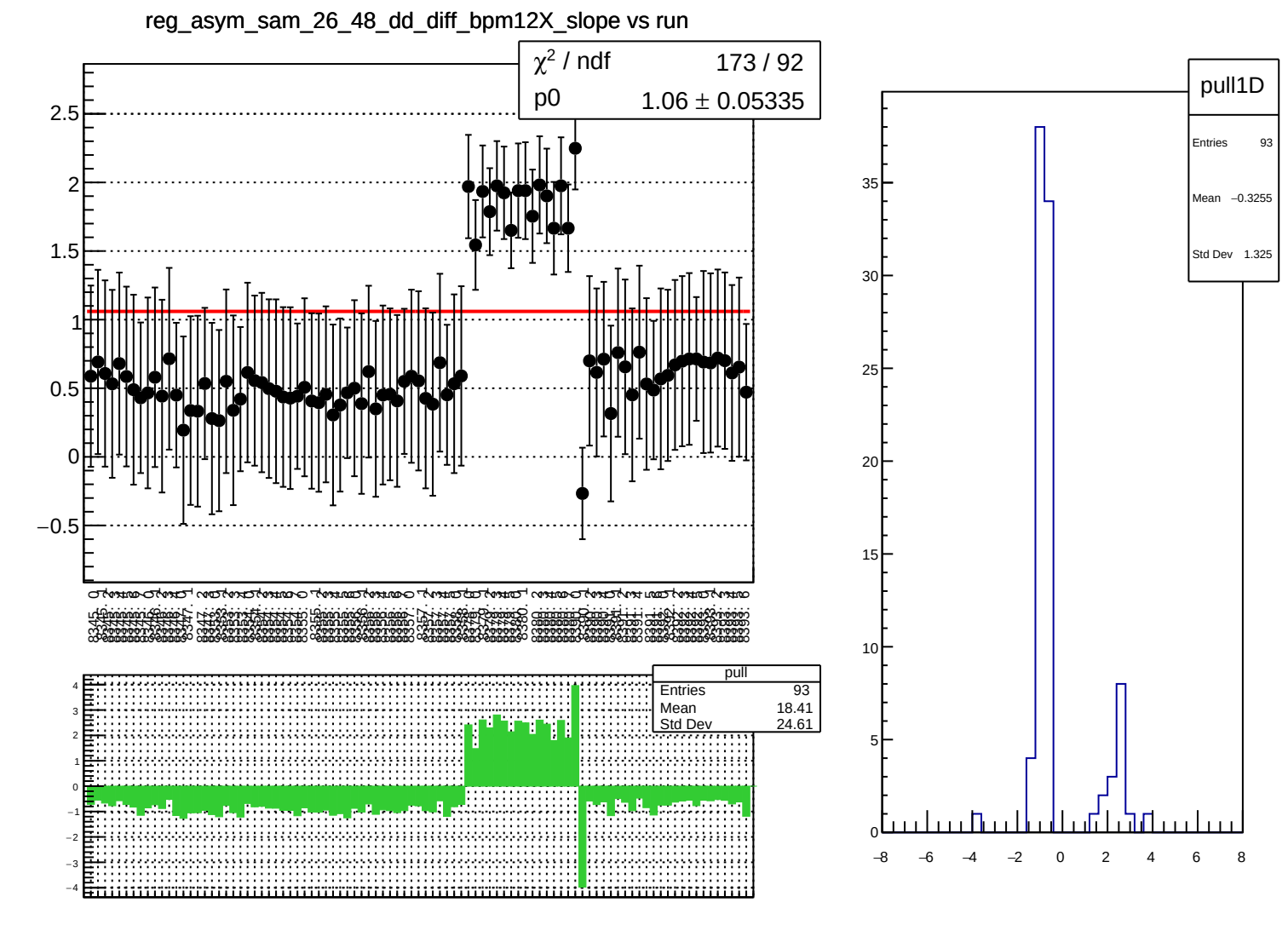

pull1D
Entries 93
Mean 0.0009067
Std Dev 0.2339

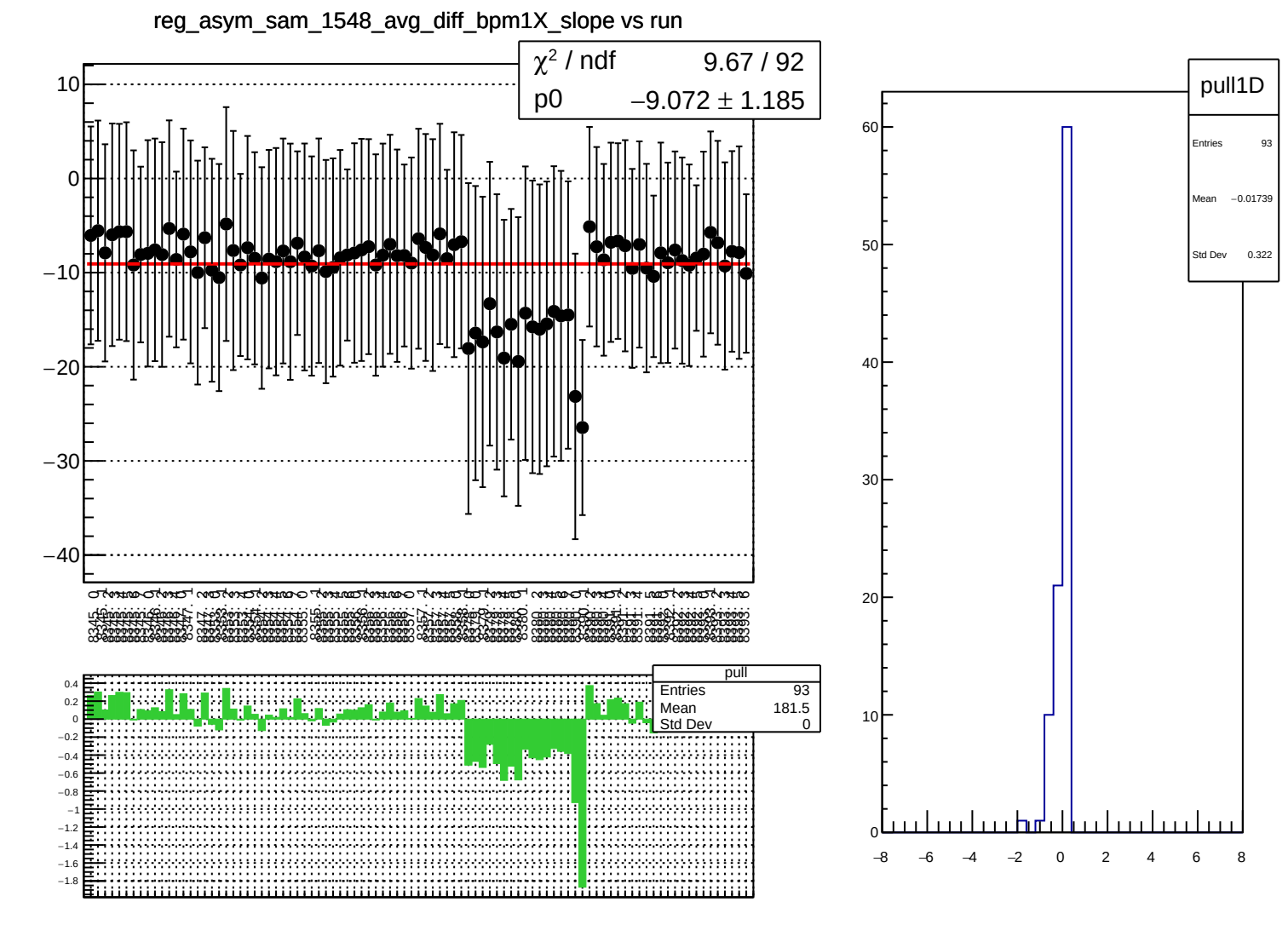

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 53.28 / 92
p0 7.779 ± 0.5644
pull
Entries 93
Mean −88.32
Std Dev 0
pull1D
Entries 93
Mean −0.04218
Std Dev 0.7557

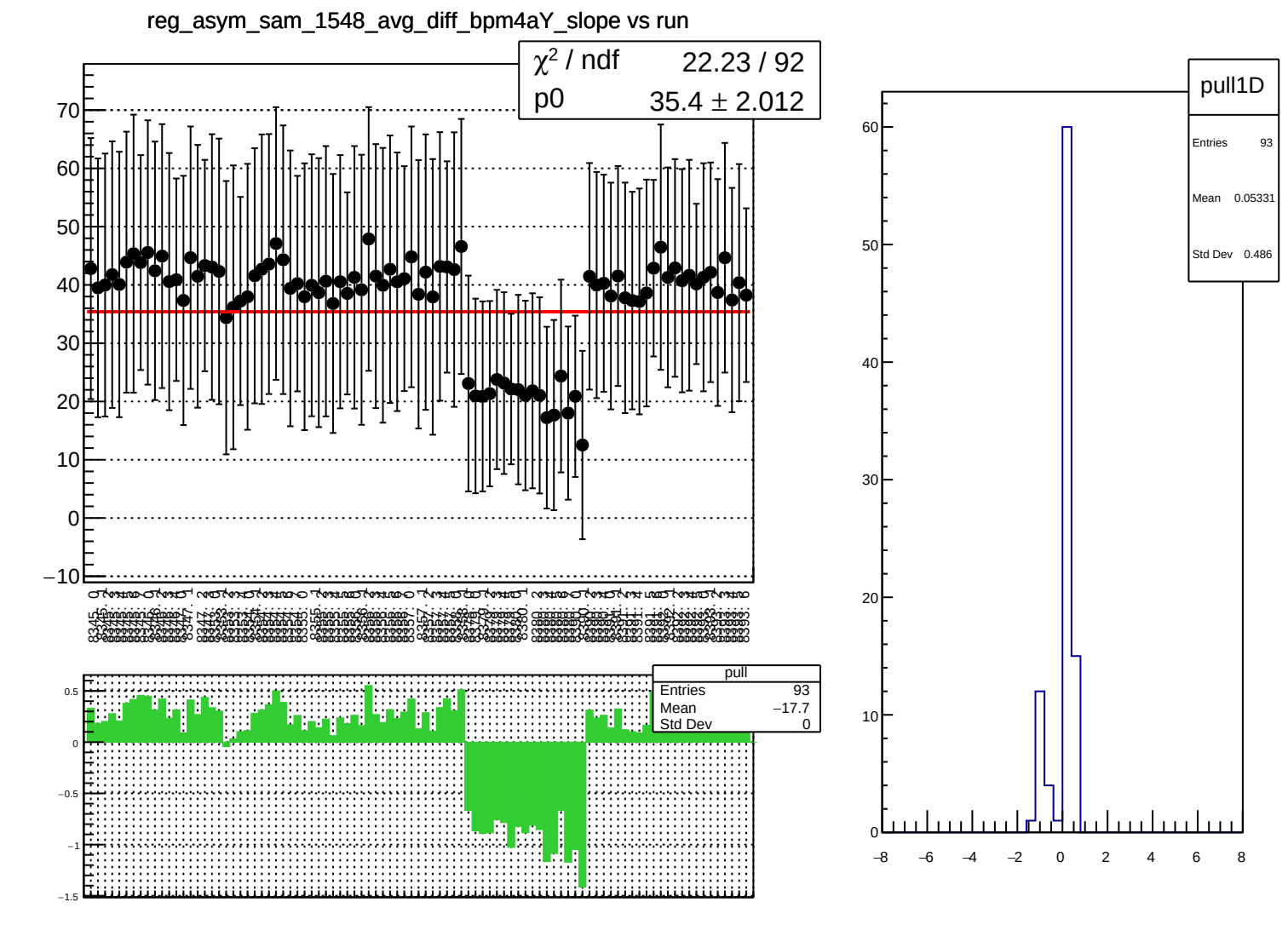

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 116.8 / 92
p0 −32.06 ± 0.8857
pull
Entries 93
Mean 24.63
Std Dev 31.71
pull1D
Entries 93
Mean −0.32
Std Dev 1.074

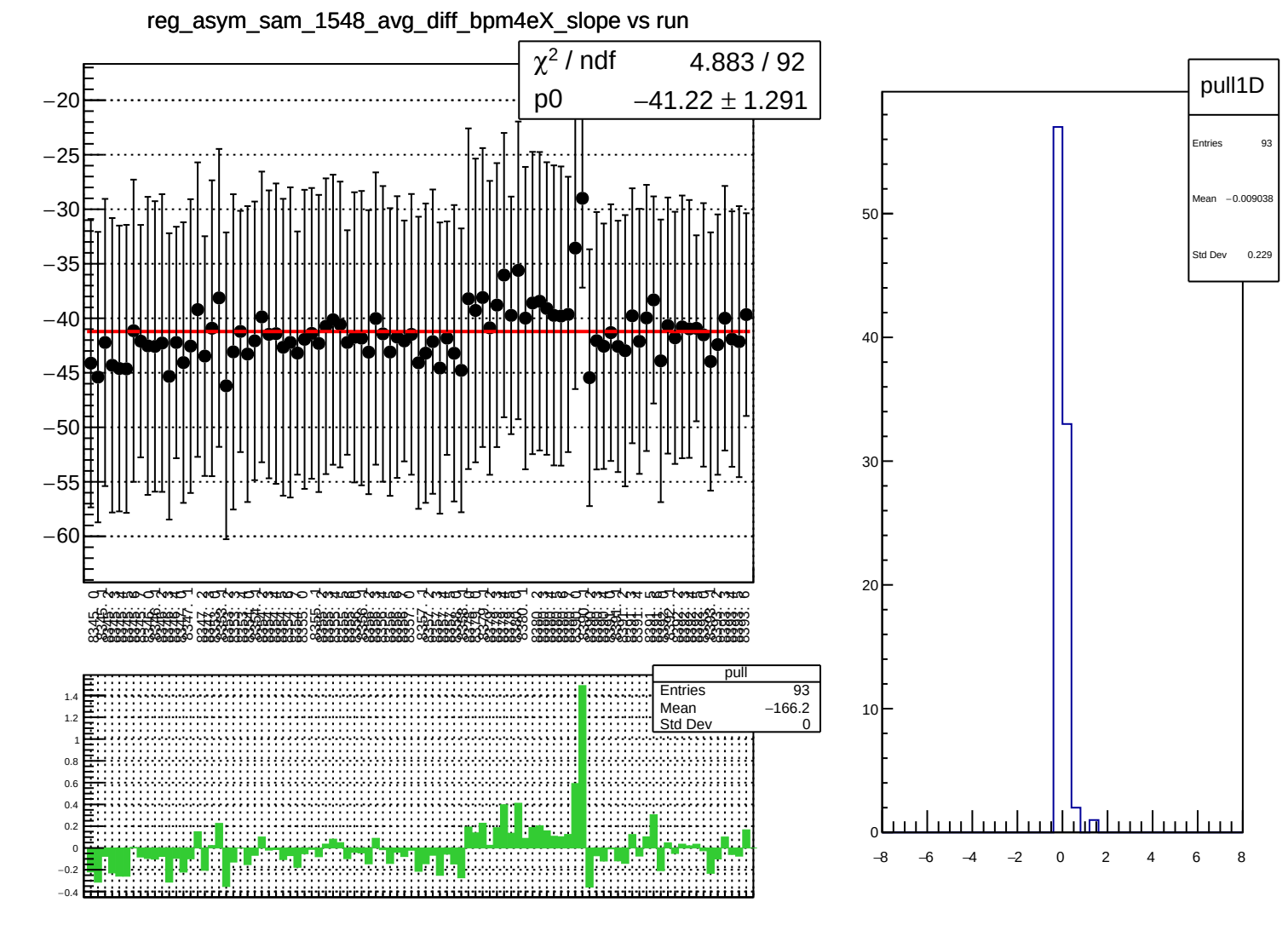

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 55.44 / 92
p0 7.815 ± 0.5983
pull
Entries 93
Mean −8.576
Std Dev 0
pull1D
Entries 93
Mean 0.1001
Std Dev 0.7656

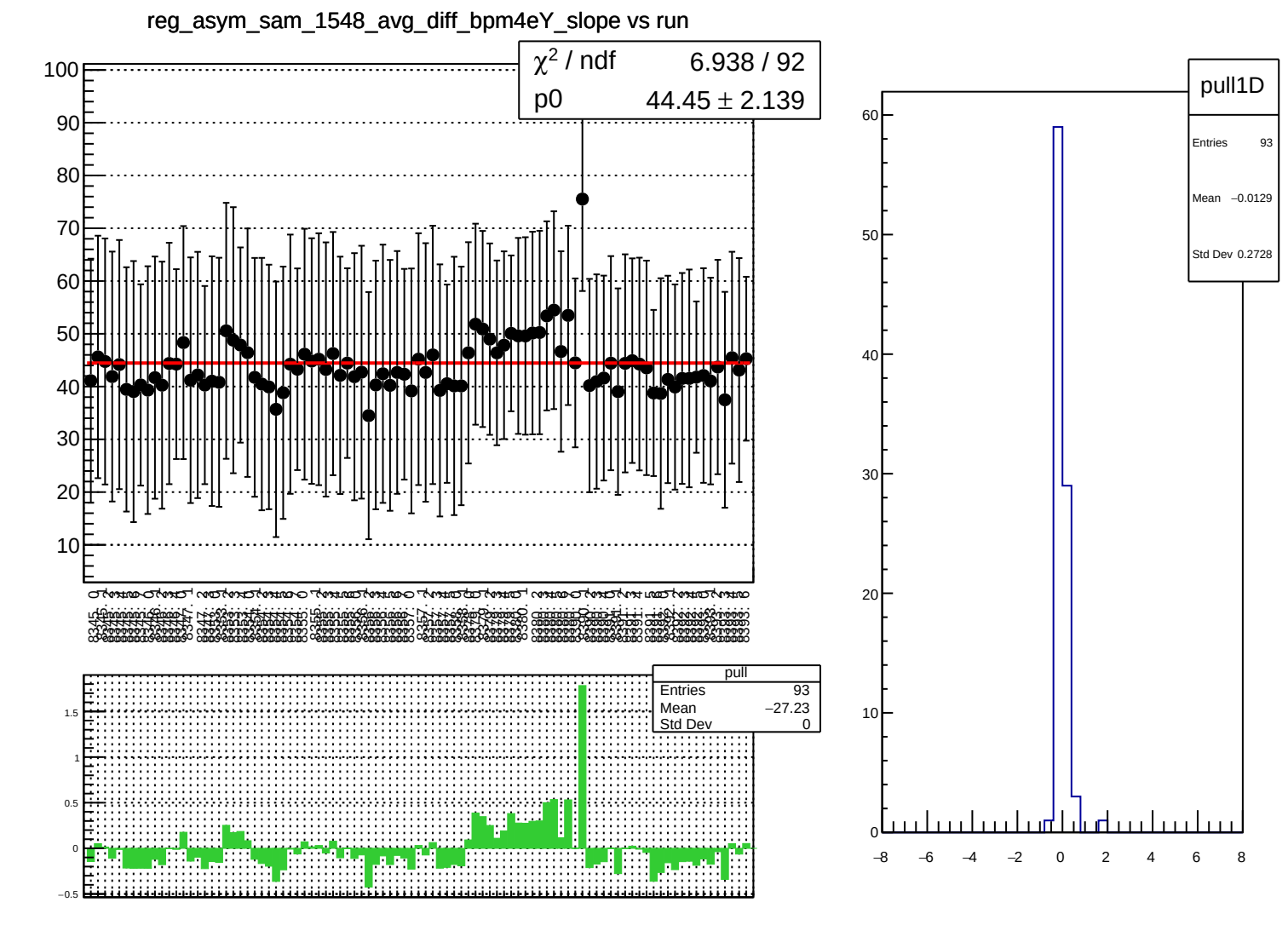

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 51.45 / 92
p0 −39.87 ± 0.9577
pull
Entries 93
Mean 22.66
Std Dev 31.73
pull1D
Entries 93
Mean 0.1539
Std Dev 0.7277

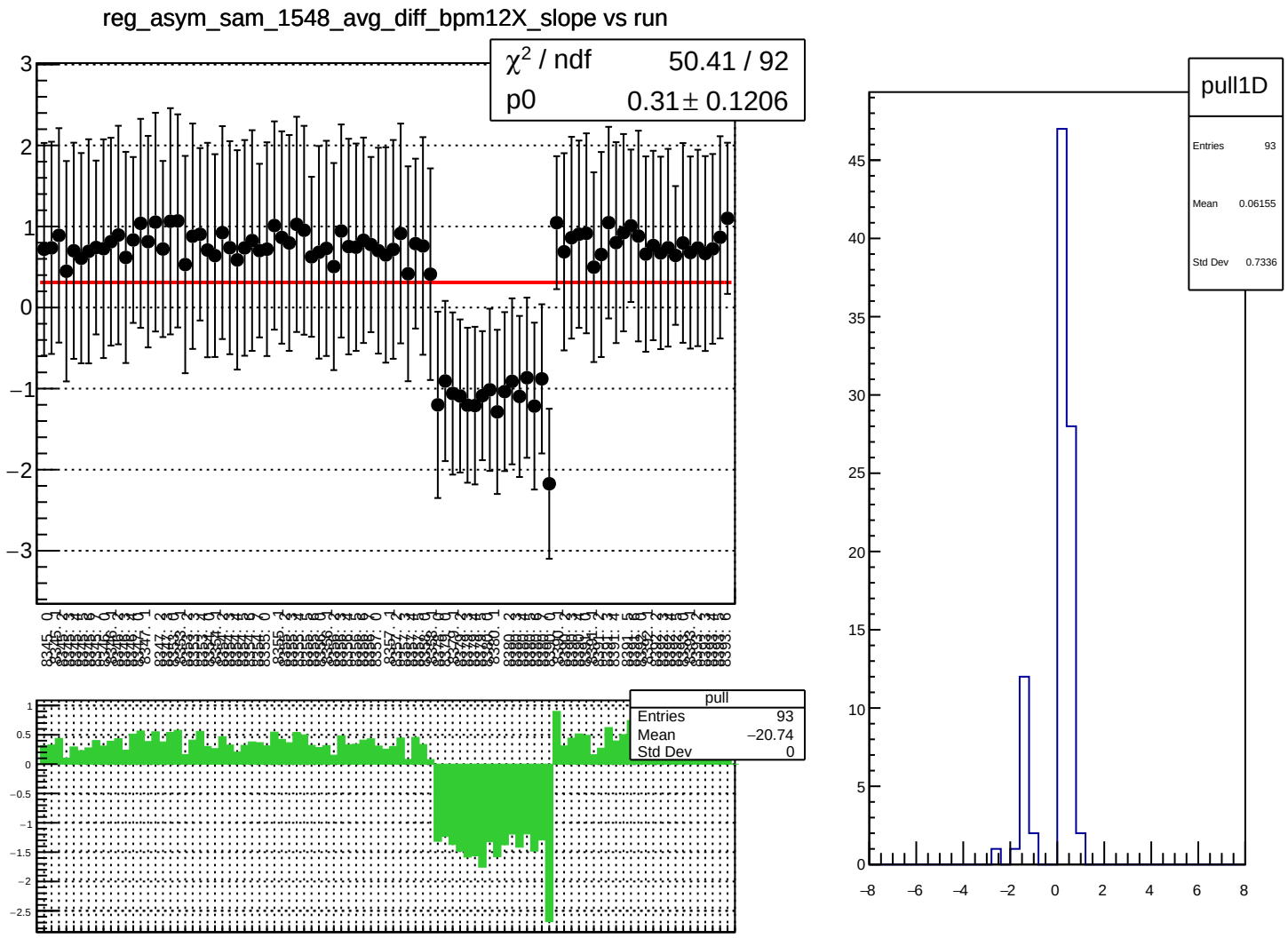

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 173 / 92
p0 1.06 ± 0.05335
pull
Entries 93
Mean 18.41
Std Dev 24.61
pull1D
Entries 93
Mean −0.3255
Std Dev 1.325

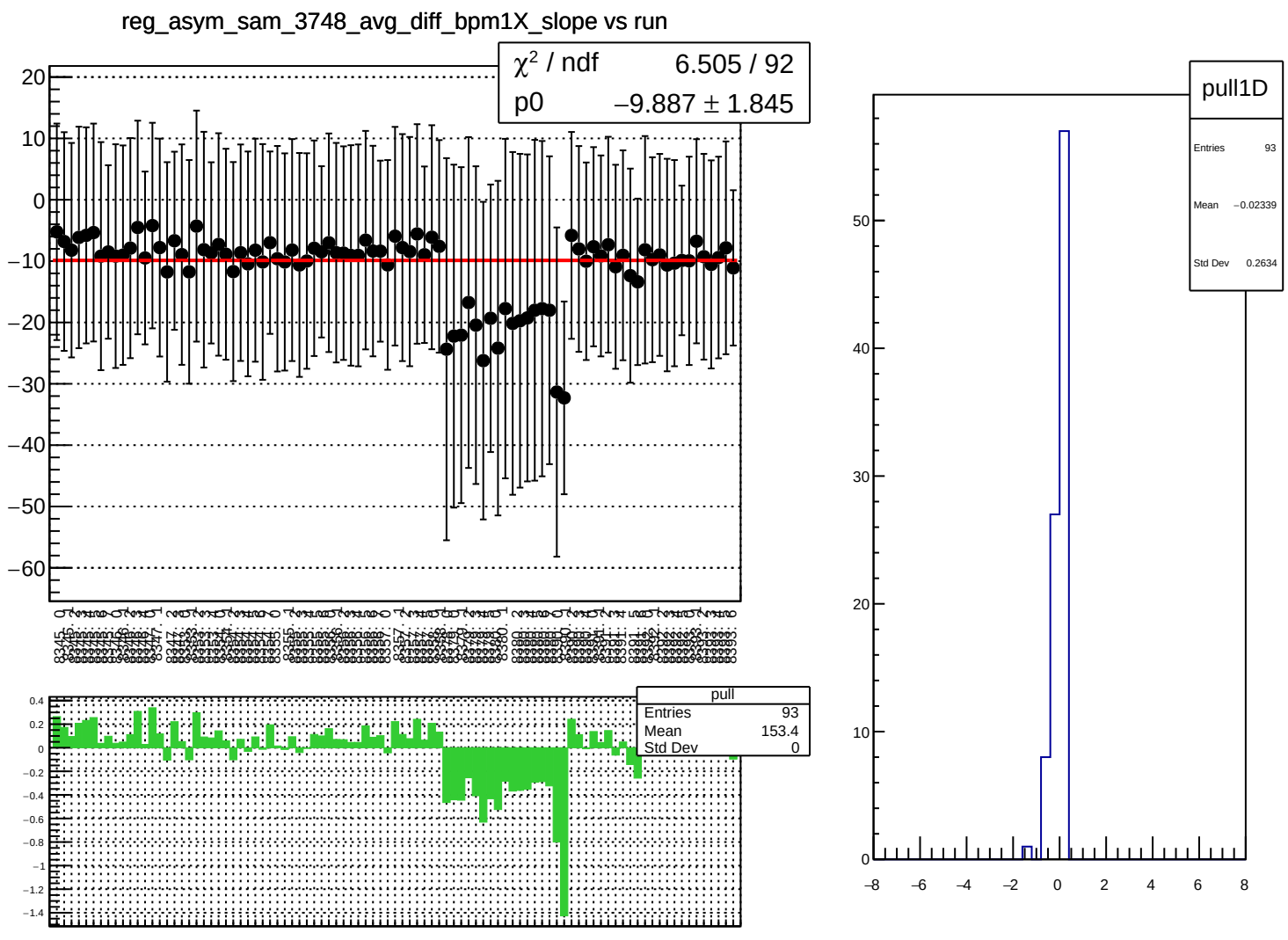

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 9.67 / 92
p0 −9.072 ± 1.185
pull
Entries 93
Mean 181.5
Std Dev 0
pull1D
Entries 93
Mean −0.01739
Std Dev 0.322

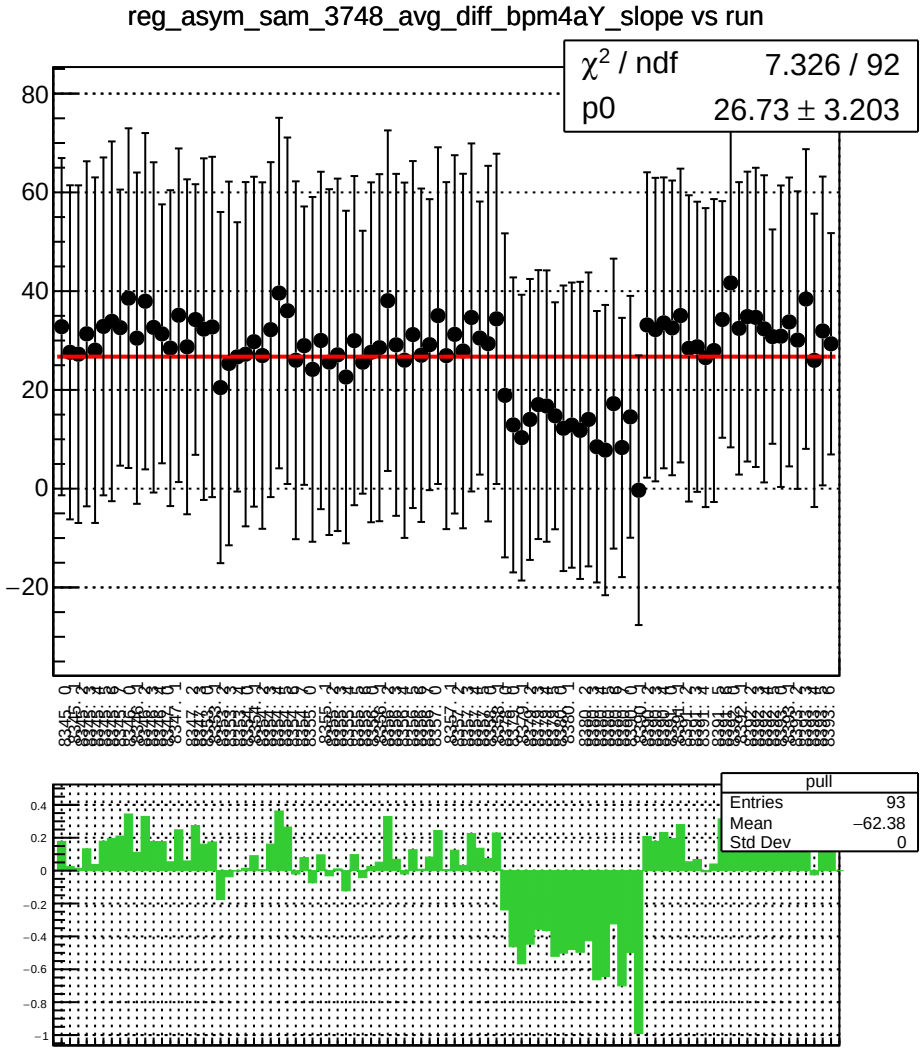

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 22.23 / 92
p0 35.4 ± 2.012
pull
Entries 93
Mean −17.7
Std Dev 0
pull1D
Entries 93
Mean 0.05331
Std Dev 0.486

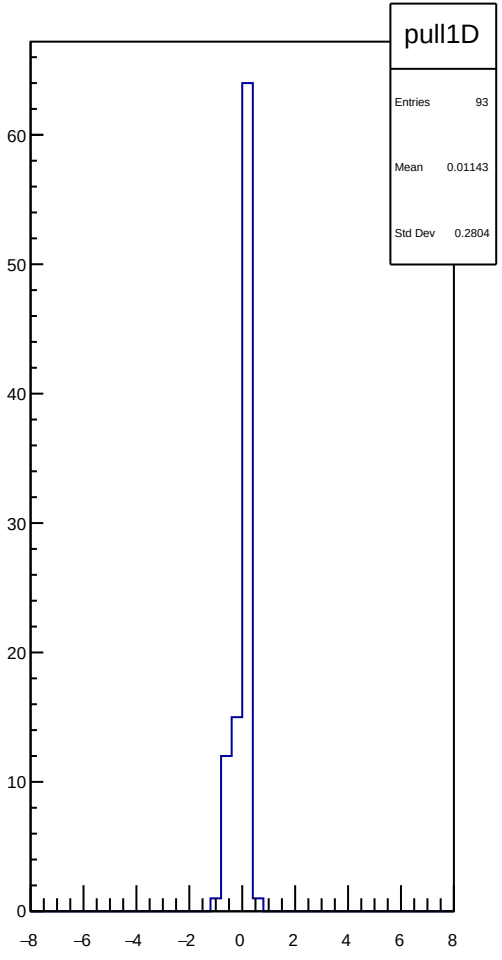

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.883 / 92
p0 −41.22 ± 1.291
pull
Entries 93
Mean −166.2
Std Dev 0
pull1D
Entries 93
Mean −0.009038
Std Dev 0.229

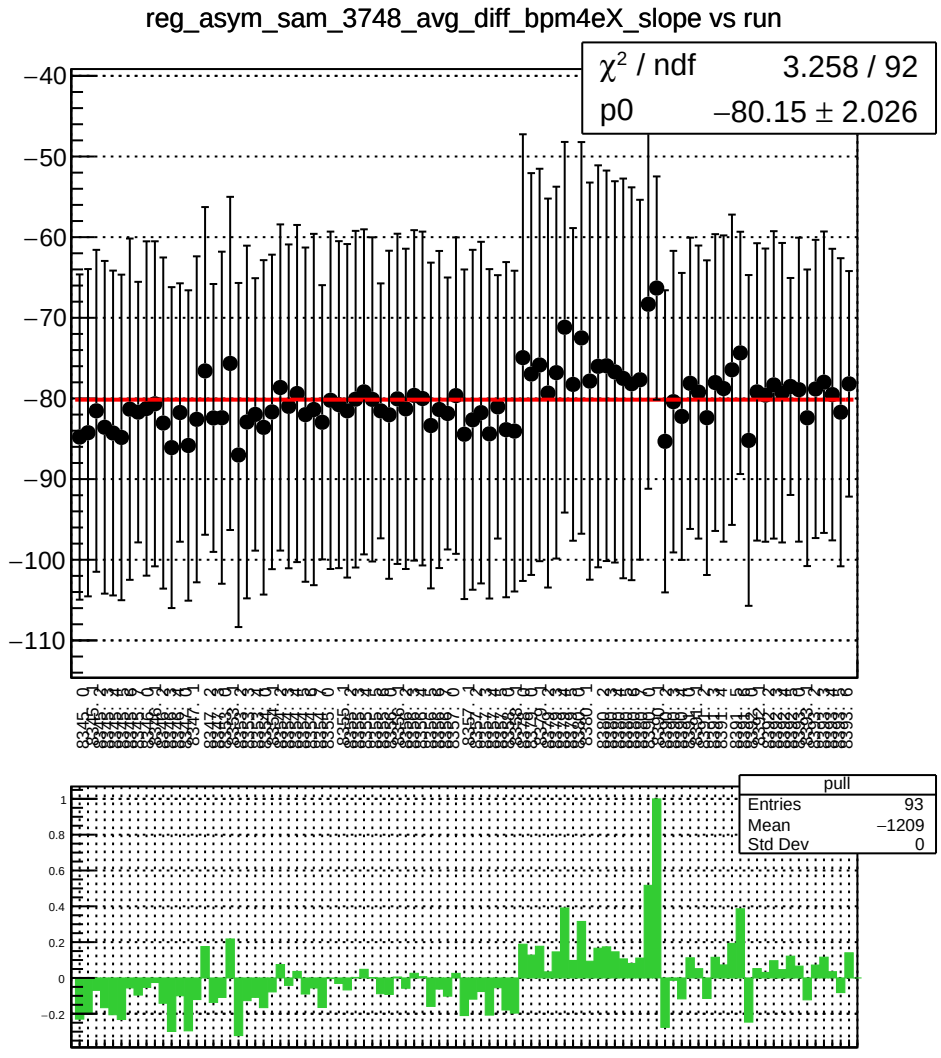

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.938 / 92
p0 44.45 ± 2.139
pull
Entries 93
Mean −27.23
Std Dev 0
pull1D
Entries 93
Mean −0.0129
Std Dev 0.2728

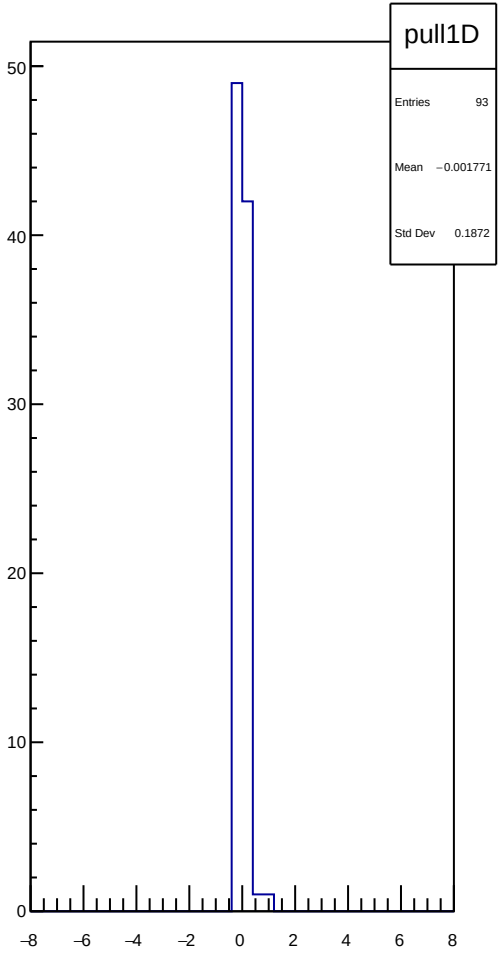

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 50.41 / 92
p0 0.31 ± 0.1206
pull
Entries 93
Mean −20.74
Std Dev 0
pull1D
Entries 93
Mean 0.06155
Std Dev 0.7336

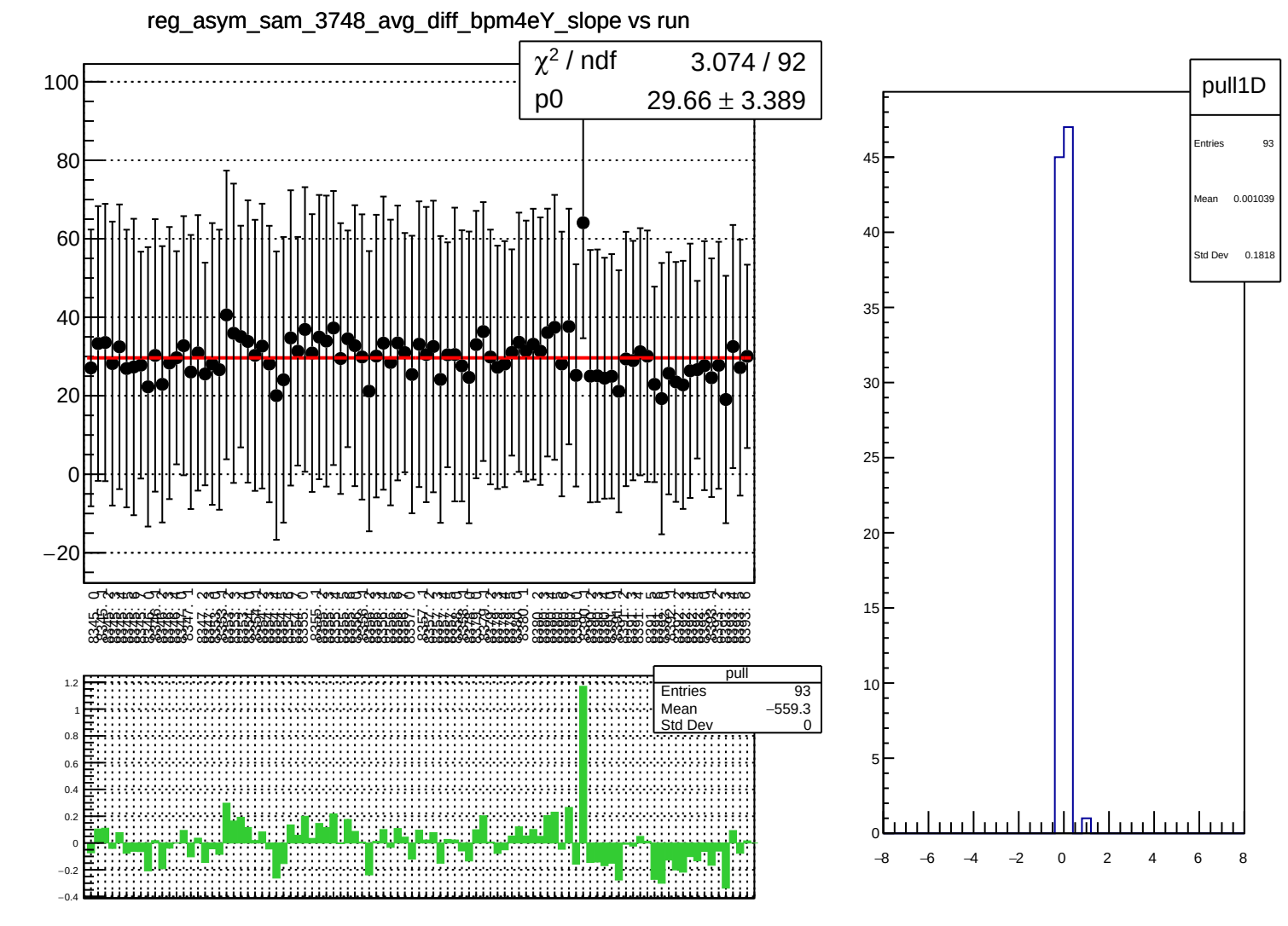

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 6.505 / 92
p0 −9.887 ± 1.845
pull
Entries 93
Mean 153.4
Std Dev 0
pull1D
Entries 93
Mean −0.02339
Std Dev 0.2634

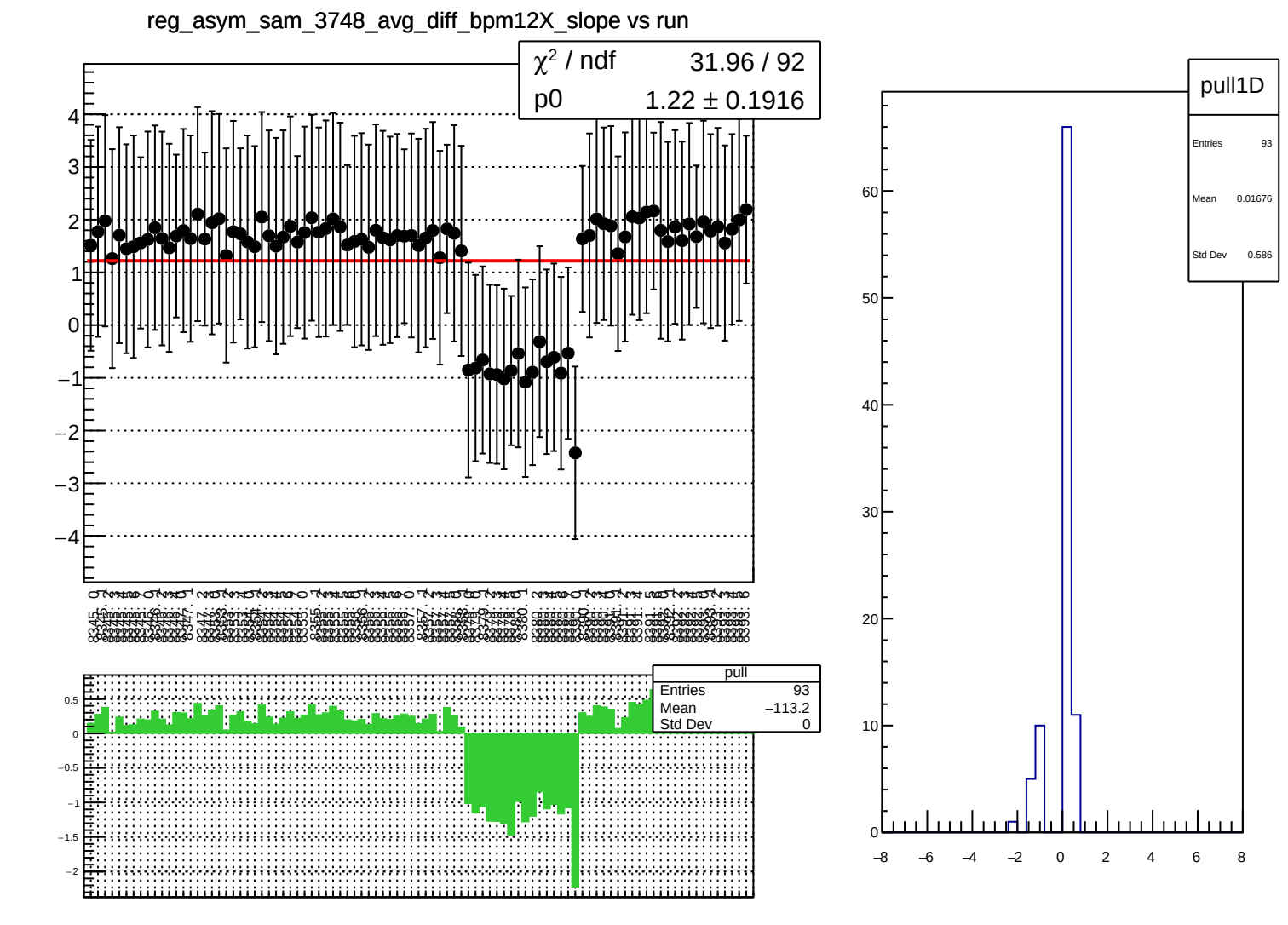

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.326 / 92
p0 26.73 ± 3.203
pull
Entries 93
Mean −62.38
Std Dev 0

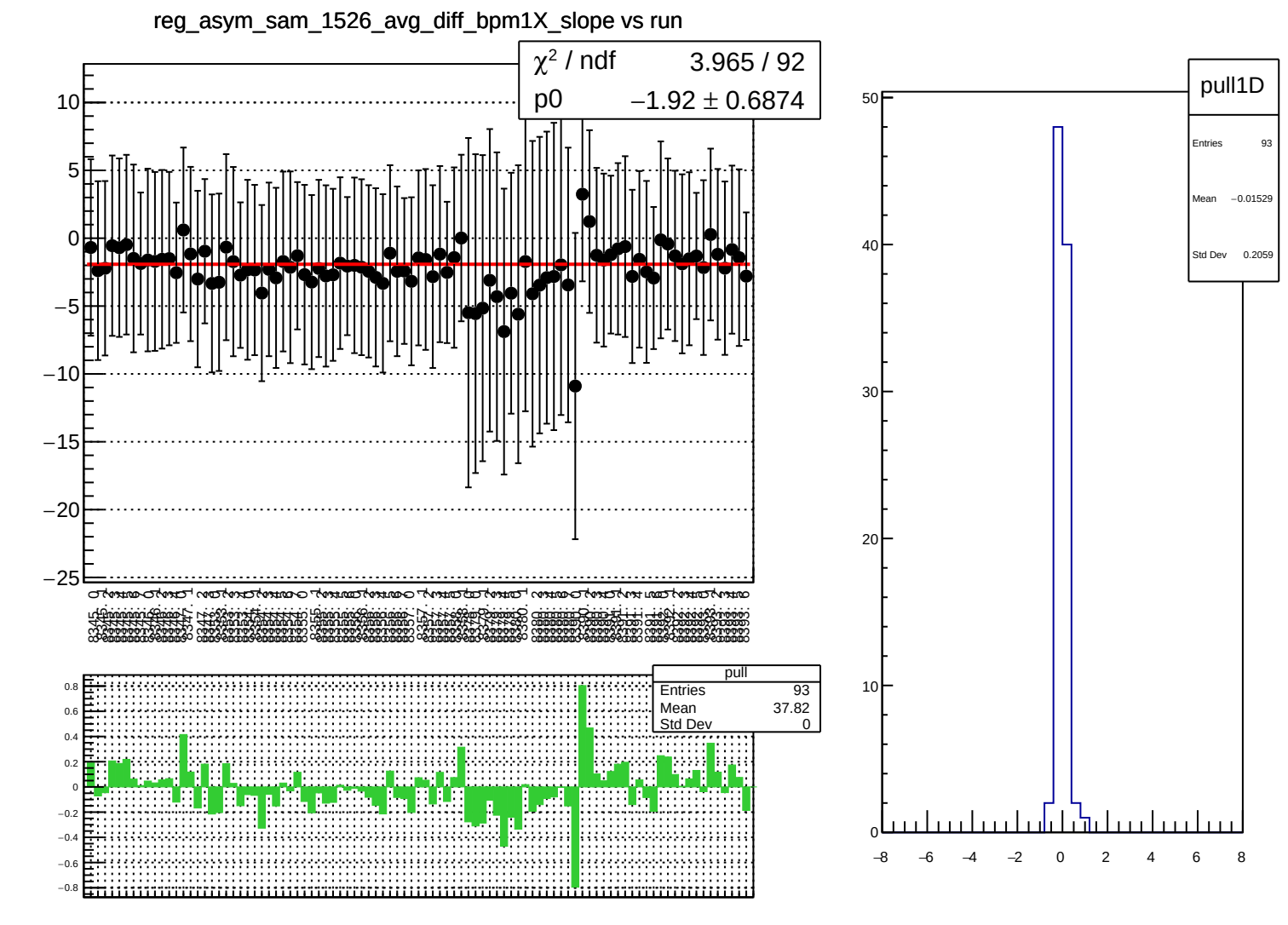

pull1D
Entries 93
Mean 0.01143
Std Dev 0.2804

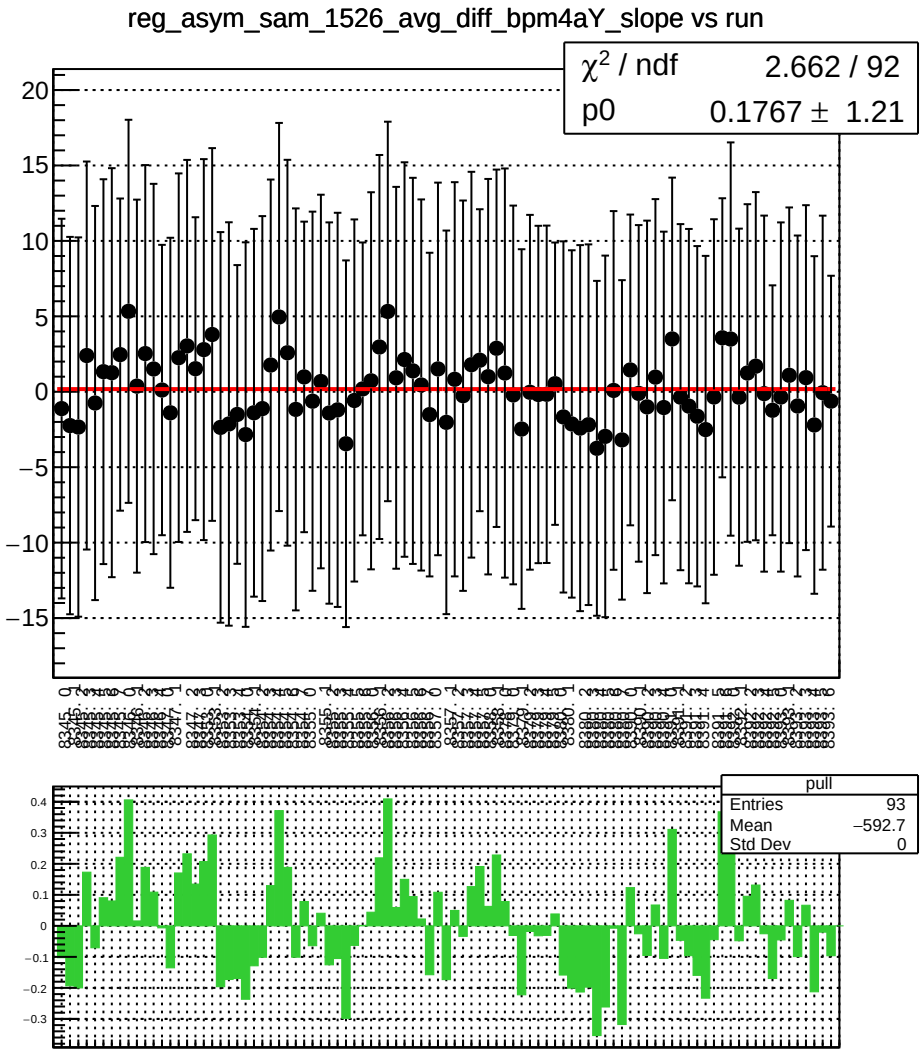

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.258 / 92
p0 −80.15 ± 2.026
pull
Entries 93
Mean −1209
Std Dev 0

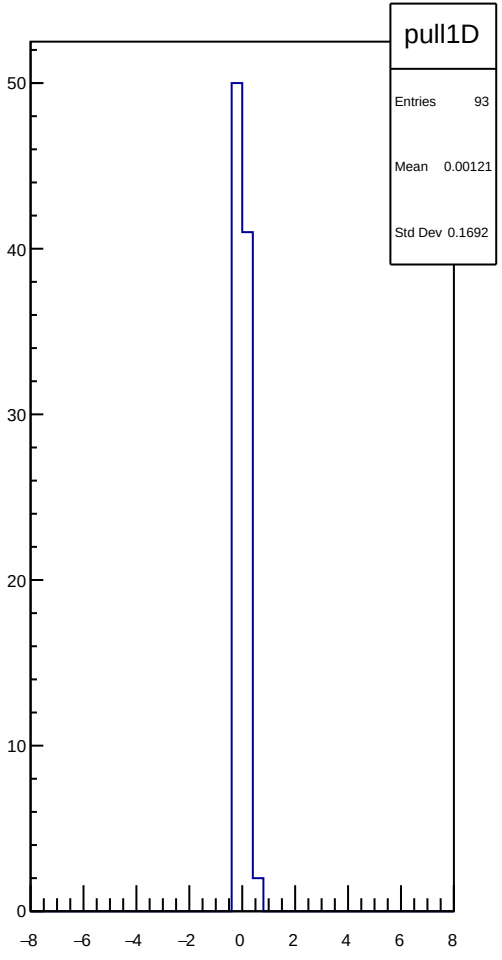

pull1D
Entries 93
Mean −0.001771
Std Dev 0.1872

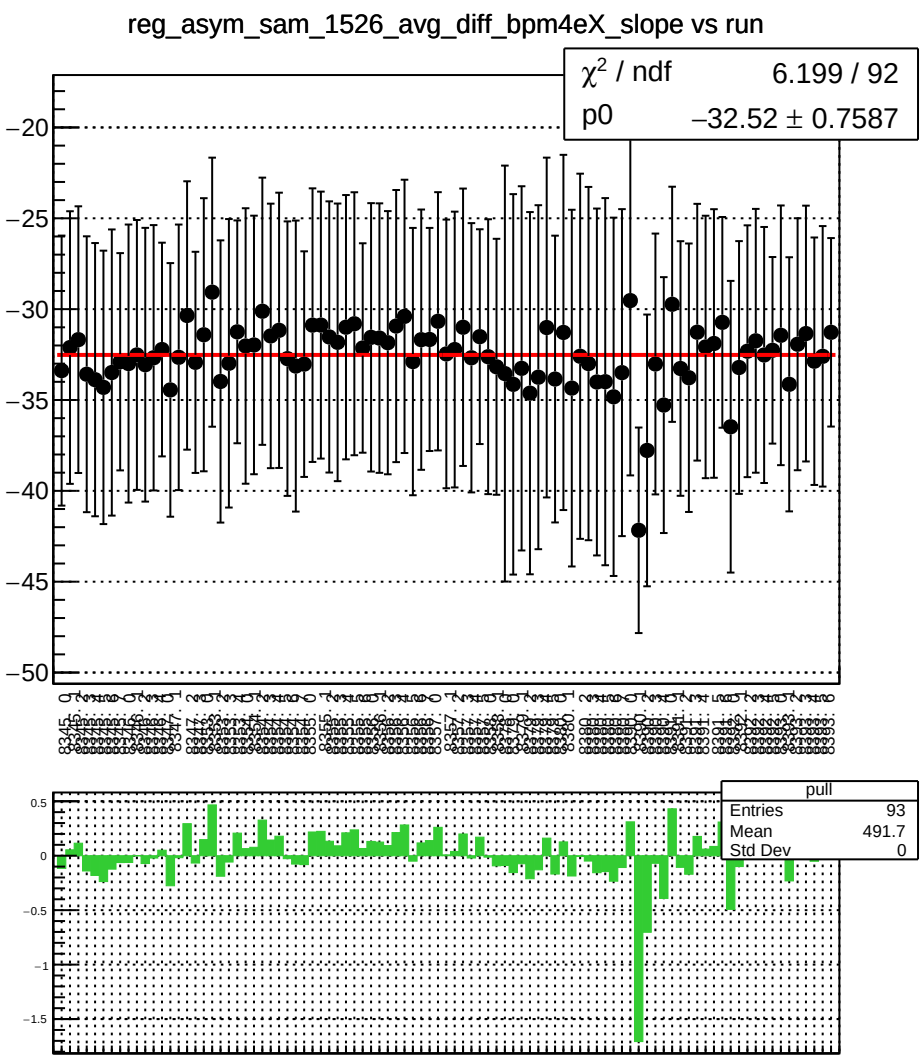

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.074 / 92
p0 29.66 ± 3.389
pull
Entries 93
Mean −559.3
Std Dev 0
pull1D
Entries 93
Mean 0.001039
Std Dev 0.1818

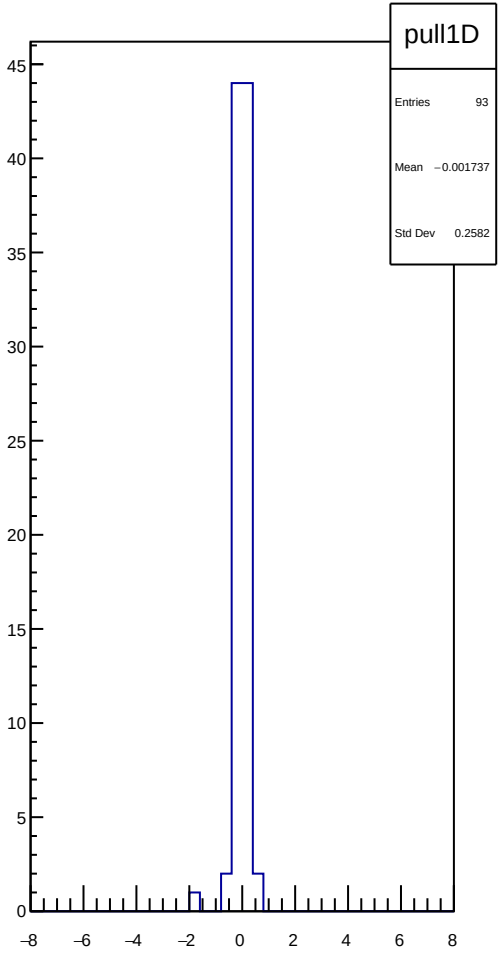

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 31.96 / 92
p0 1.22 ± 0.1916
pull
Entries 93
Mean −113.2
Std Dev 0
pull1D
Entries 93
Mean 0.01676
Std Dev 0.586

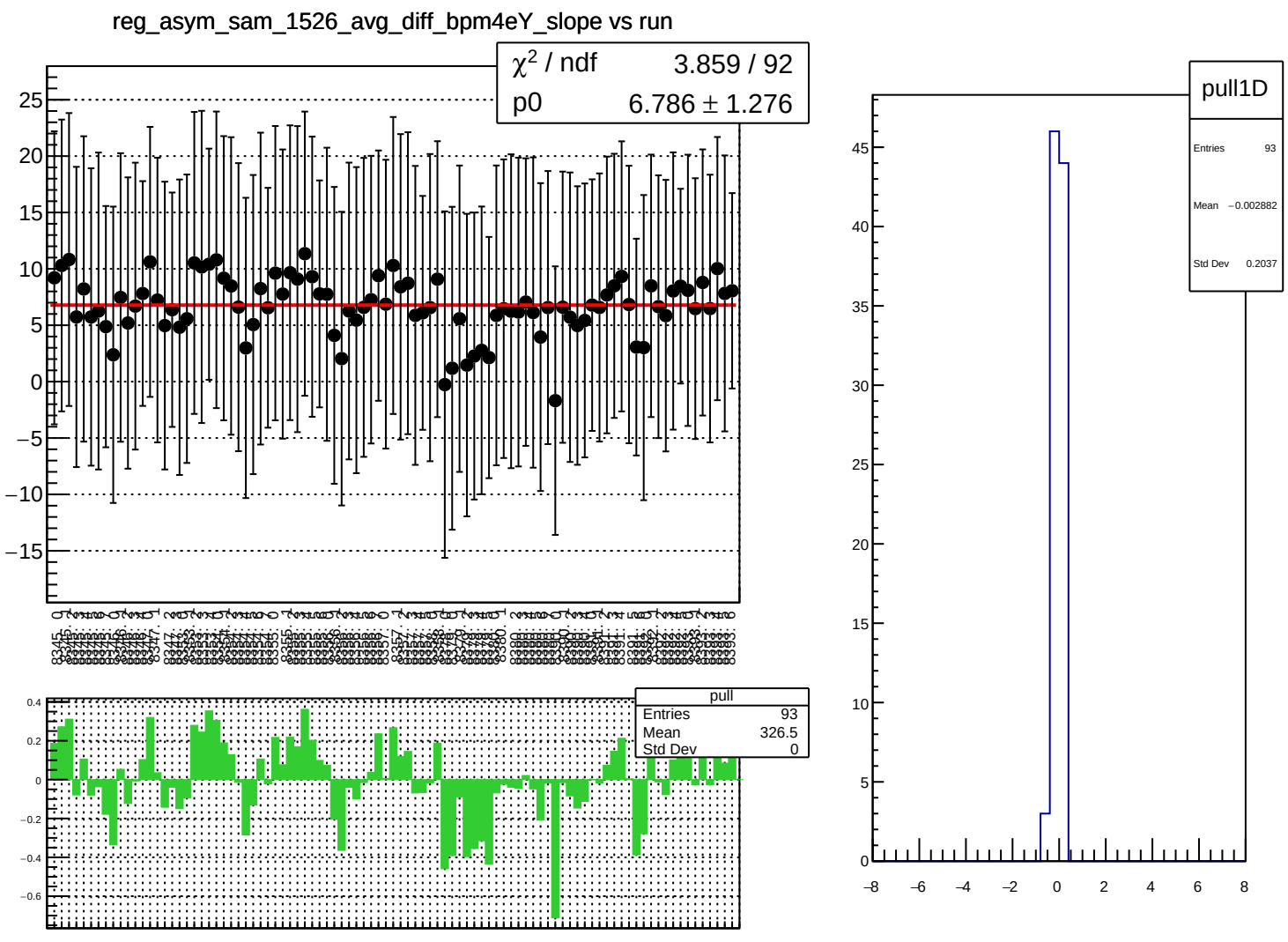

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 3.965 / 92
p0 −1.92 ± 0.6874
pull
Entries 93
Mean 37.82
Std Dev 0
pull1D
Entries 93
Mean −0.01529
Std Dev 0.2059

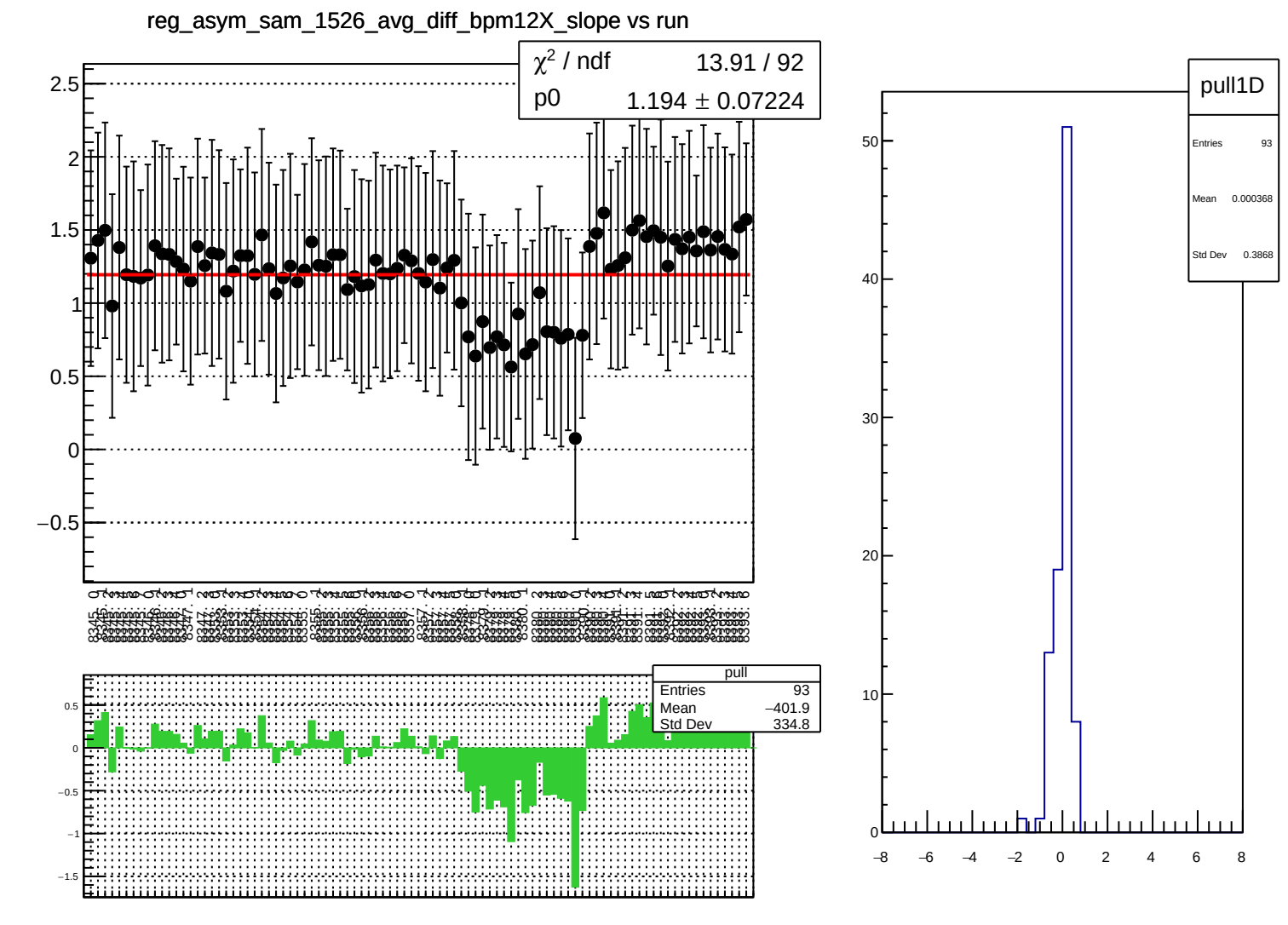

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.662 / 92
p0 0.1767 ± 1.21
pull
Entries 93
Mean −592.7
Std Dev 0

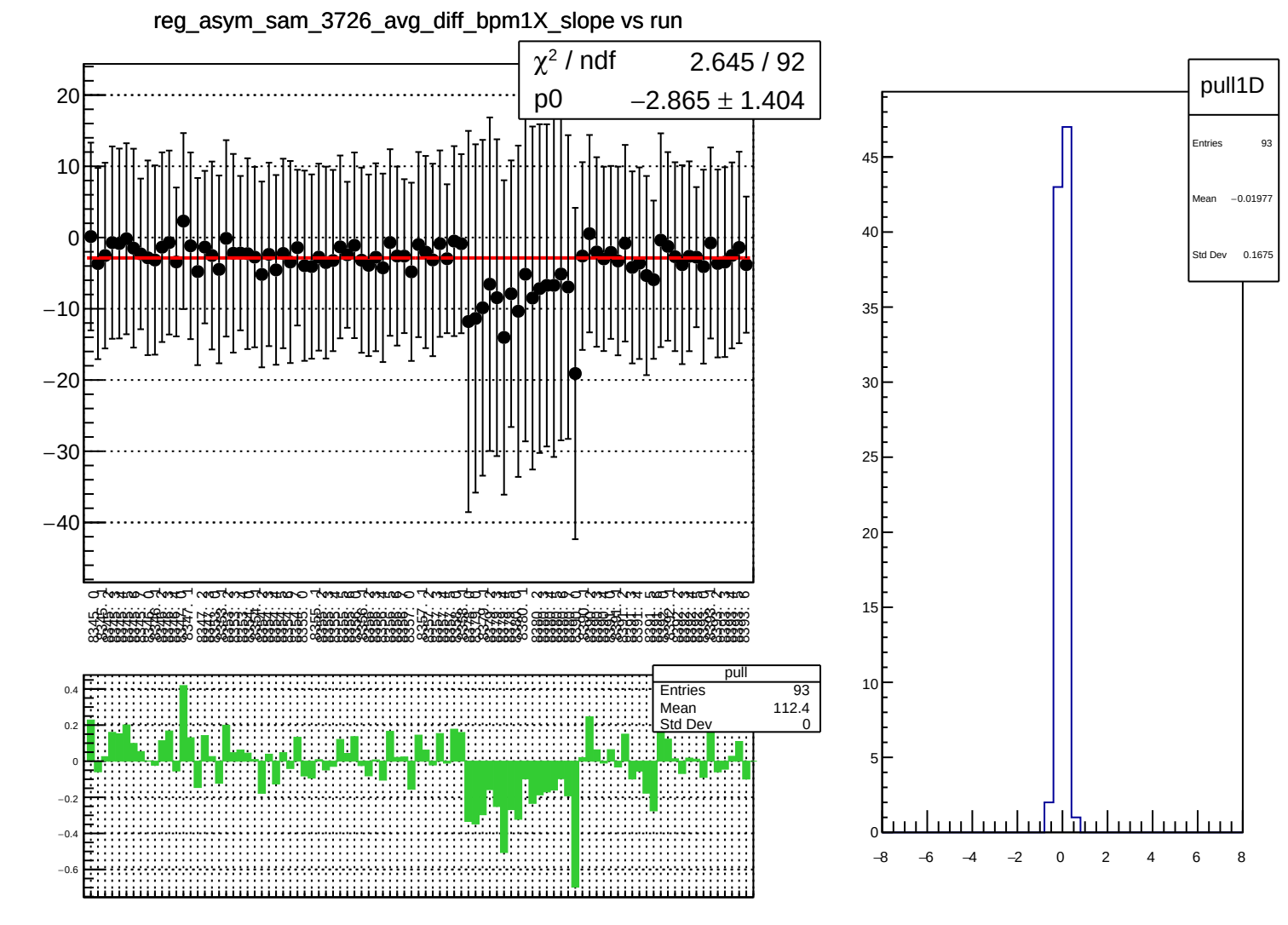

pull1D
Entries 93
Mean 0.00121
Std Dev 0.1692

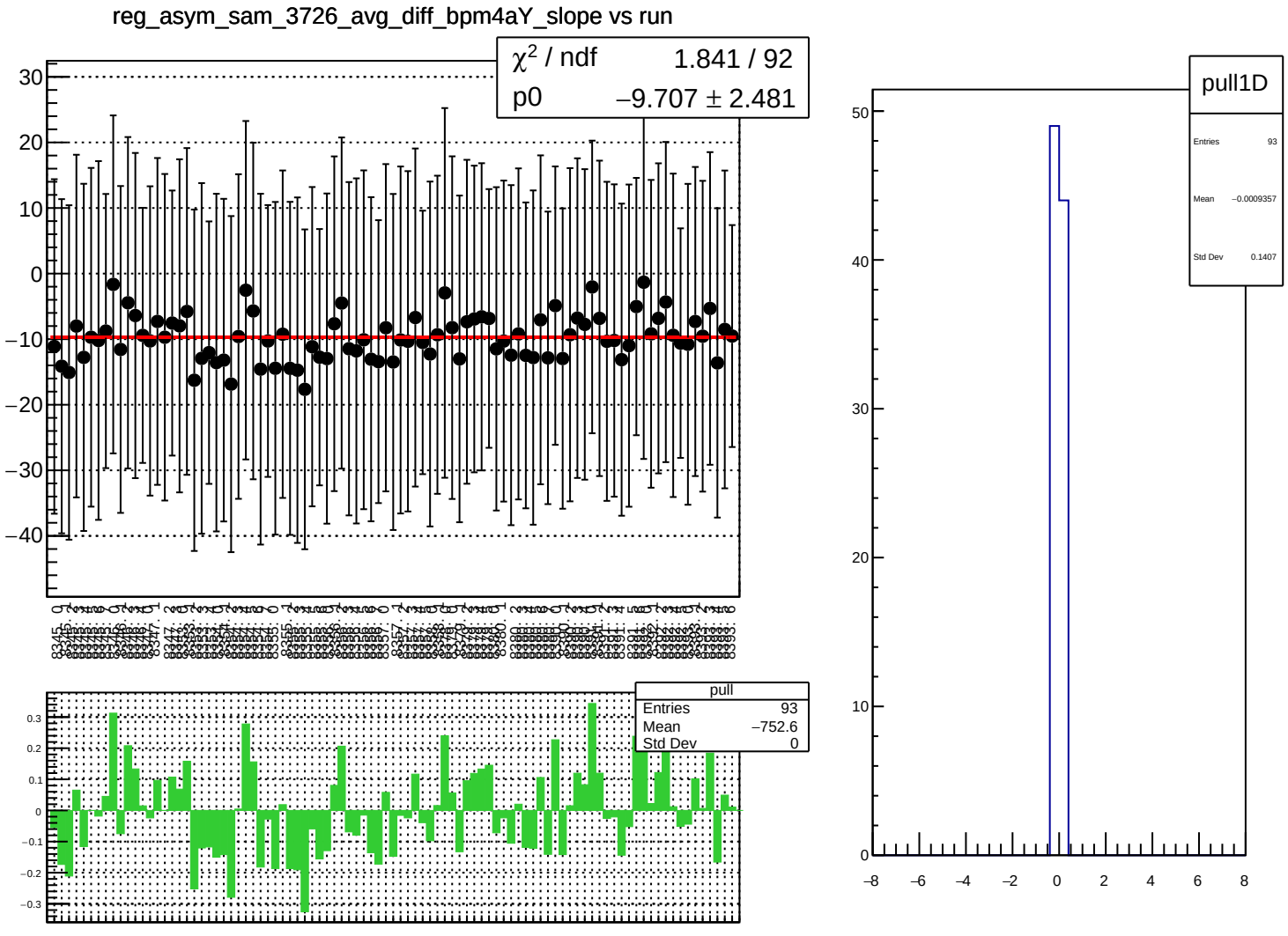

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.199 / 92
p0 −32.52 ± 0.7587
pull
Entries 93
Mean 491.7
Std Dev 0

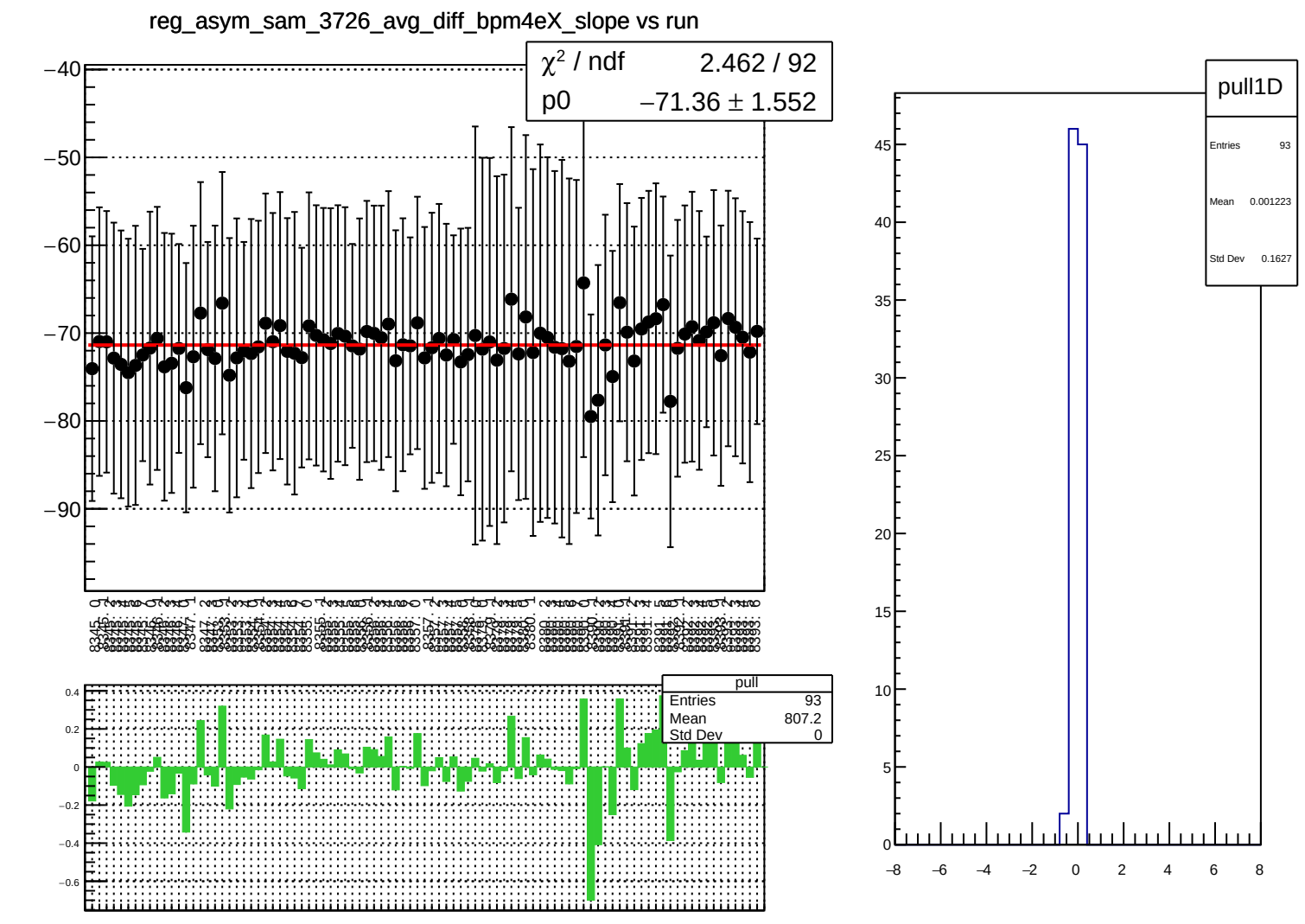

pull1D
Entries 93
Mean −0.001737
Std Dev 0.2582

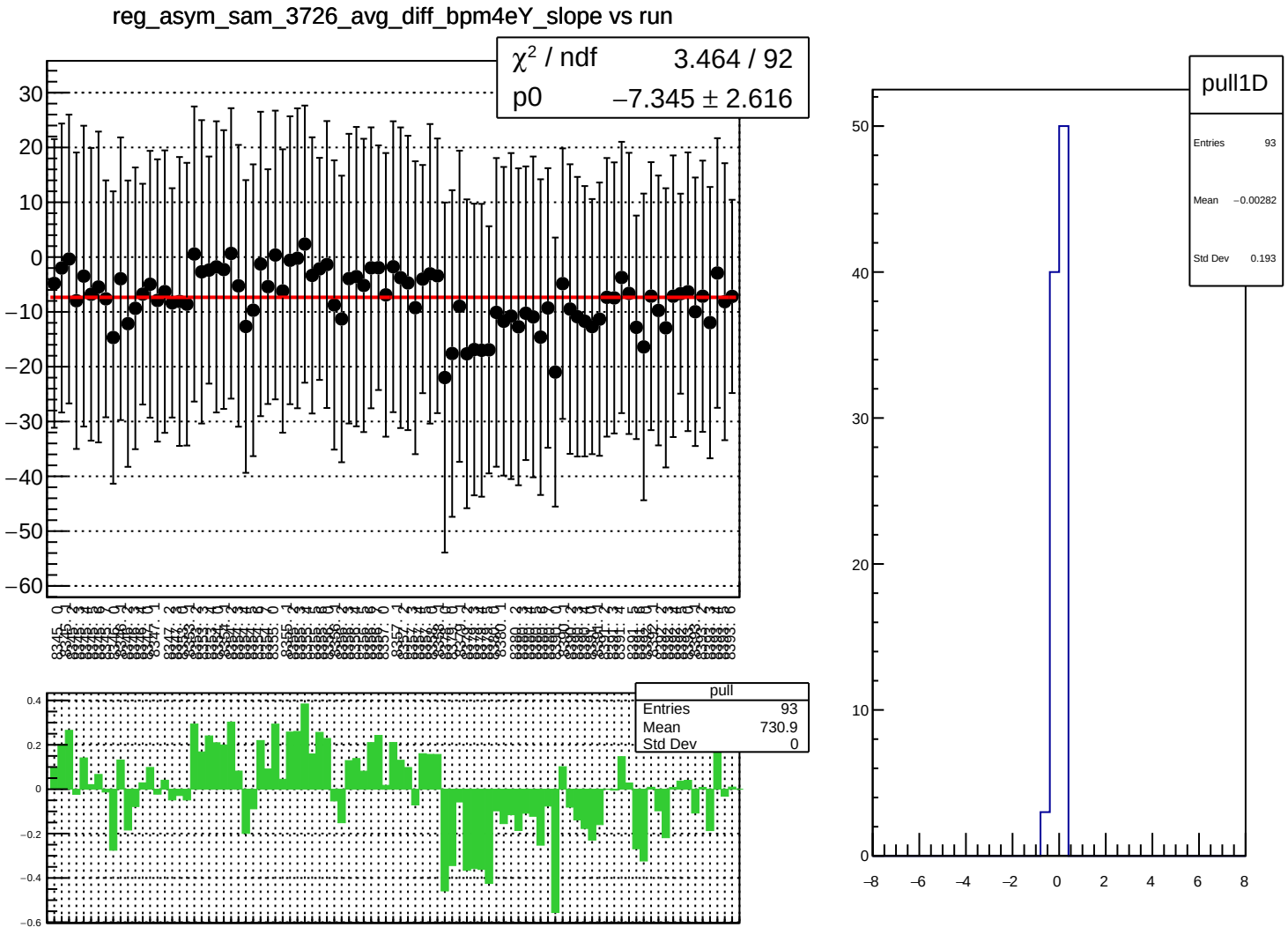

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.859 / 92
p0 6.786 ± 1.276
pull
Entries 93
Mean 326.5
Std Dev 0
pull1D
Entries 93
Mean −0.002882
Std Dev 0.2037

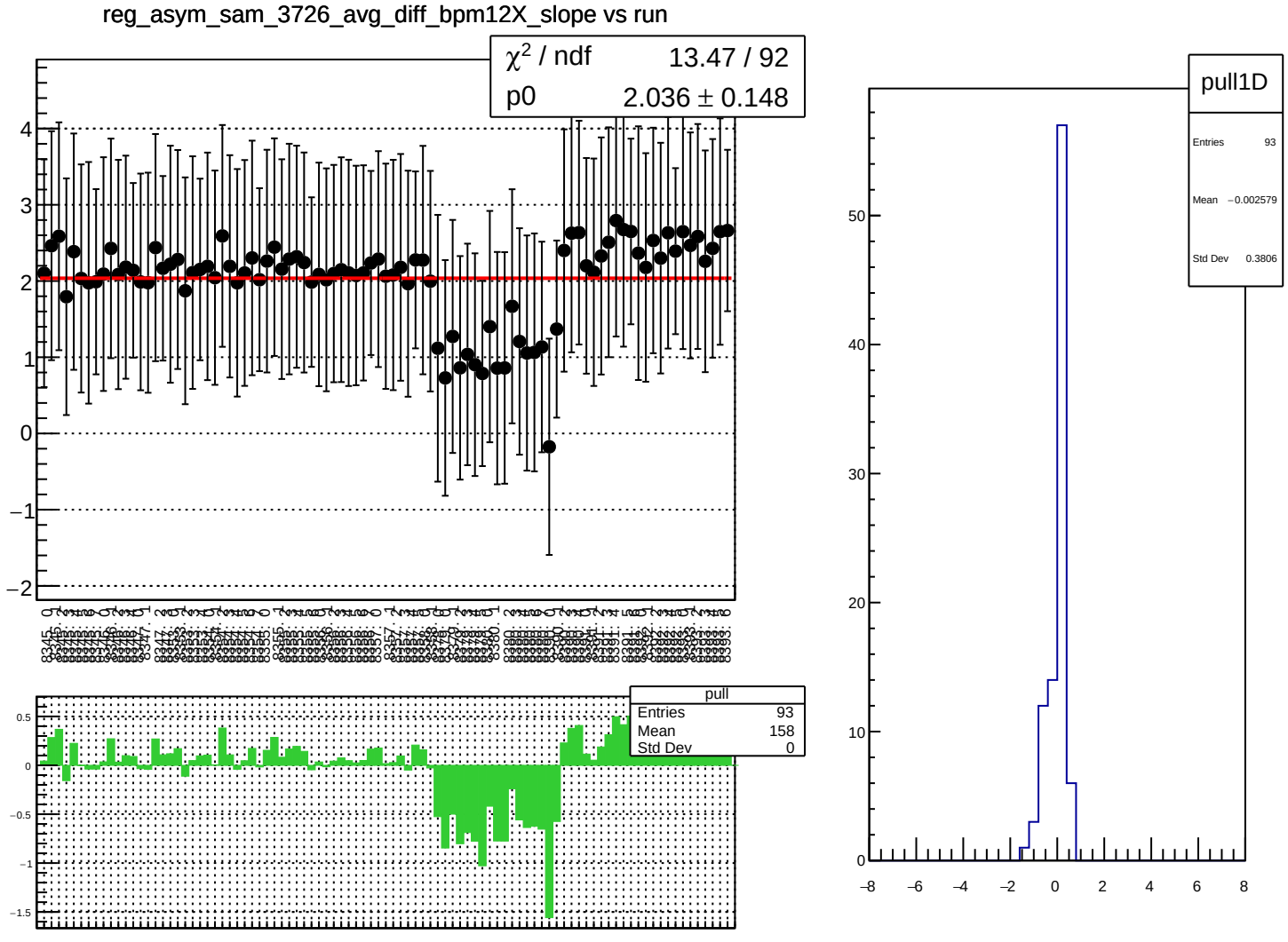

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 13.91 / 92
p0 1.194 ± 0.07224
pull
Entries 93
Mean −401.9
Std Dev 334.8
pull1D
Entries 93
Mean 0.000368
Std Dev 0.3868

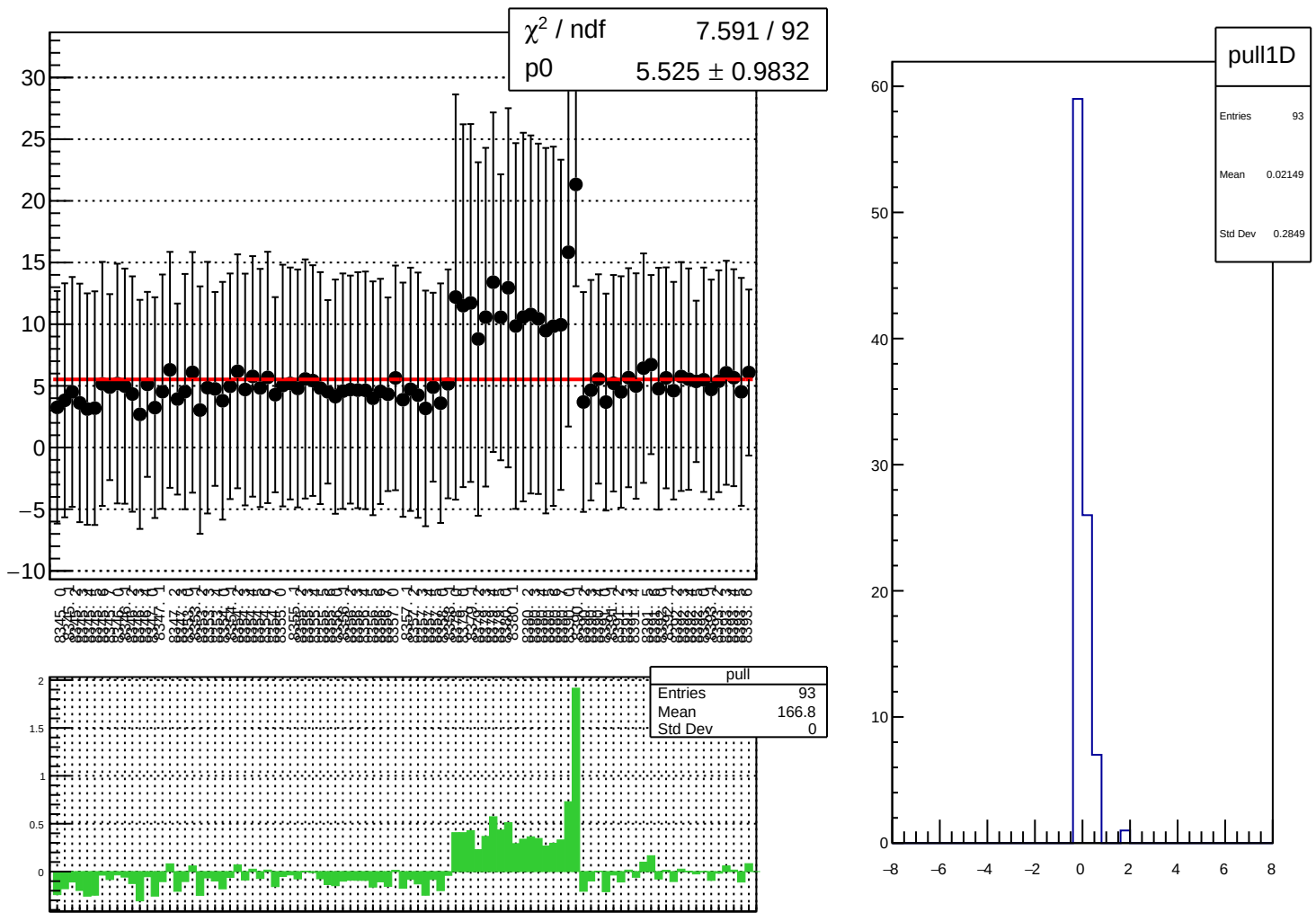

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 2.645 / 92
p0 −2.865 ± 1.404
pull
Entries 93
Mean 112.4
Std Dev 0
pull1D
Entries 93
Mean −0.01977
Std Dev 0.1675

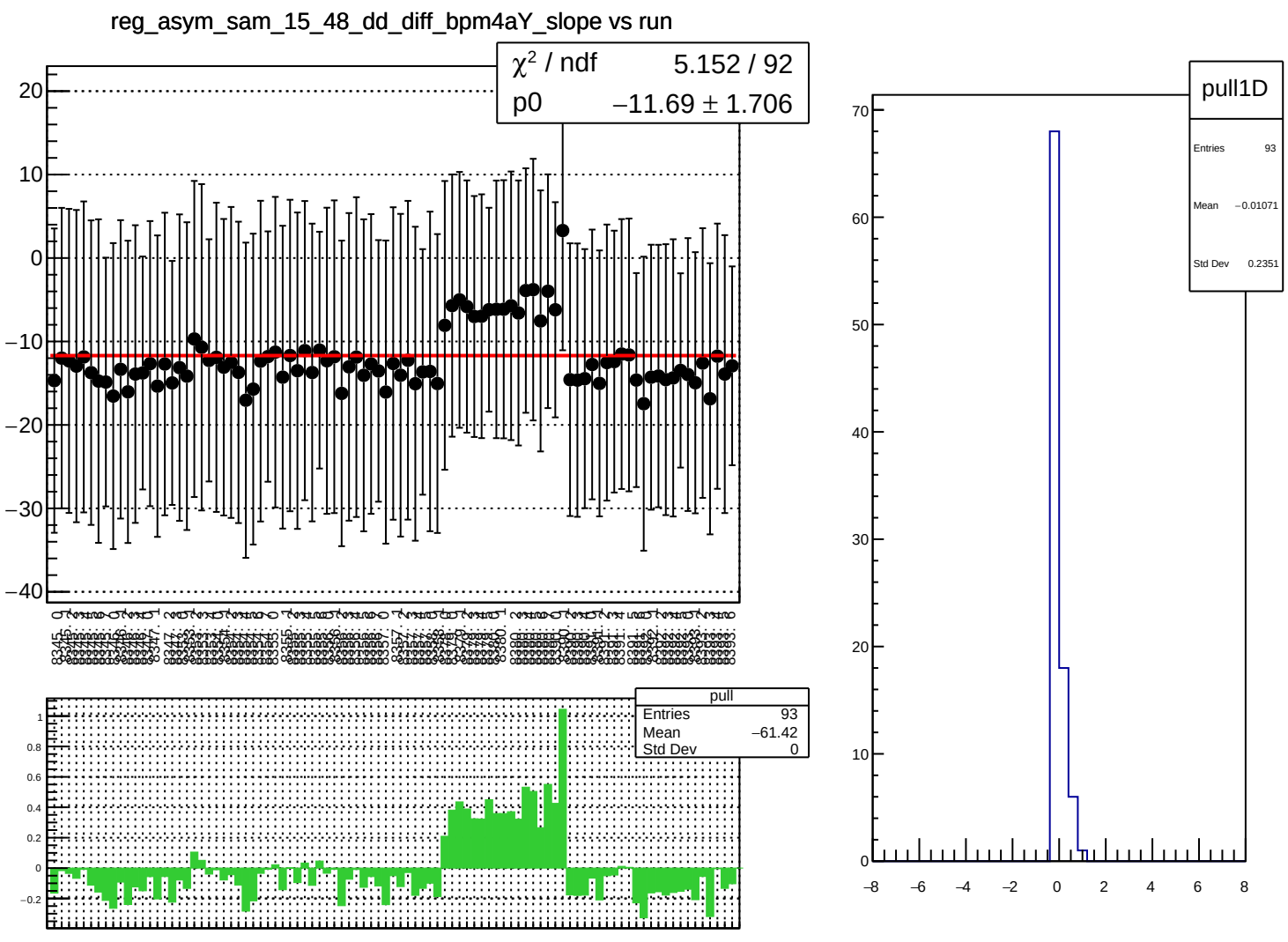

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.841 / 92
p0 −9.707 ± 2.481
pull
Entries 93
Mean −752.6
Std Dev 0
pull1D
Entries 93
Mean −0.0009357
Std Dev 0.1407

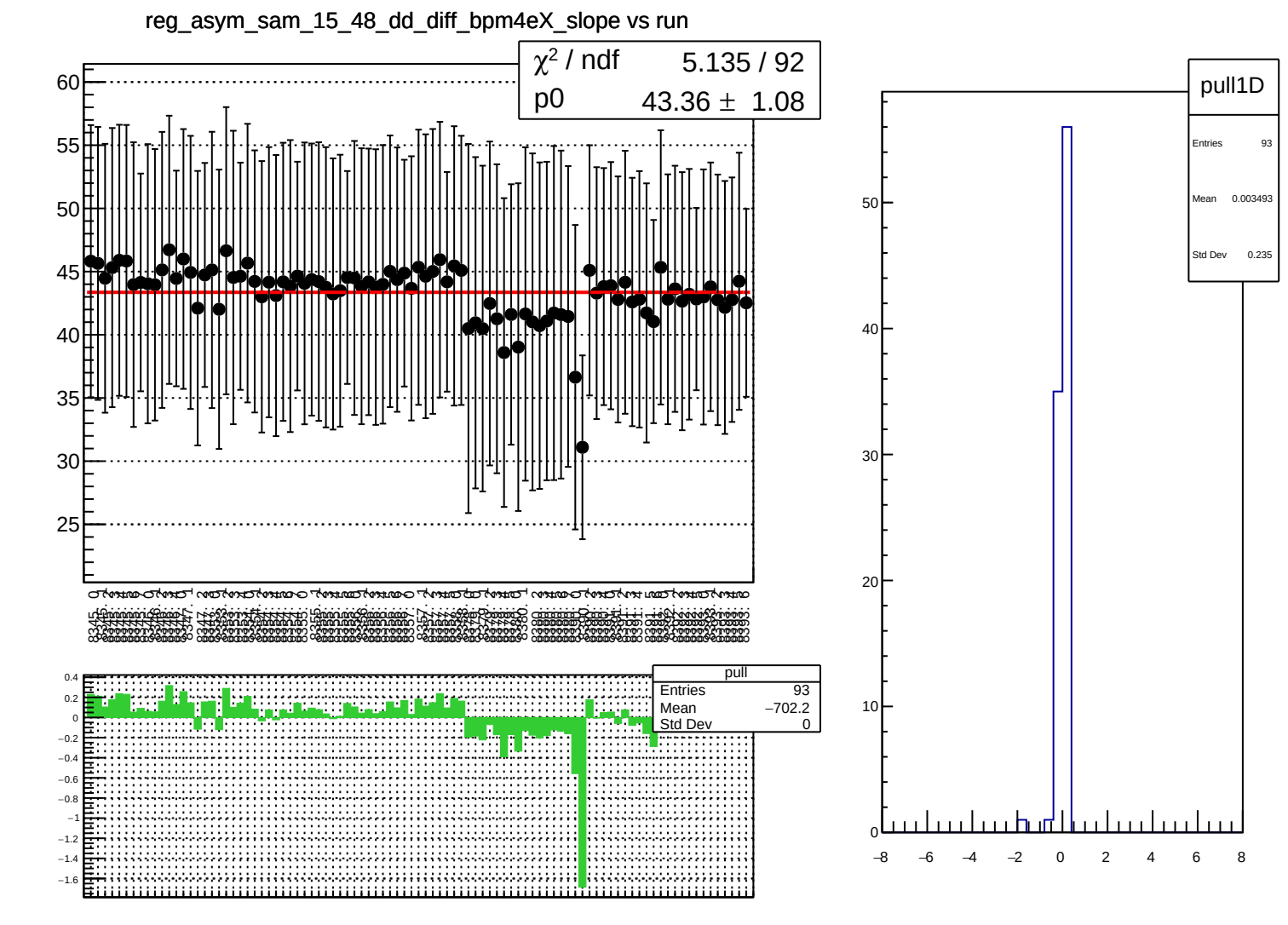

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.462 / 92
p0 −71.36 ± 1.552
pull
Entries 93
Mean 807.2
Std Dev 0
pull1D
Entries 93
Mean 0.001223
Std Dev 0.1627

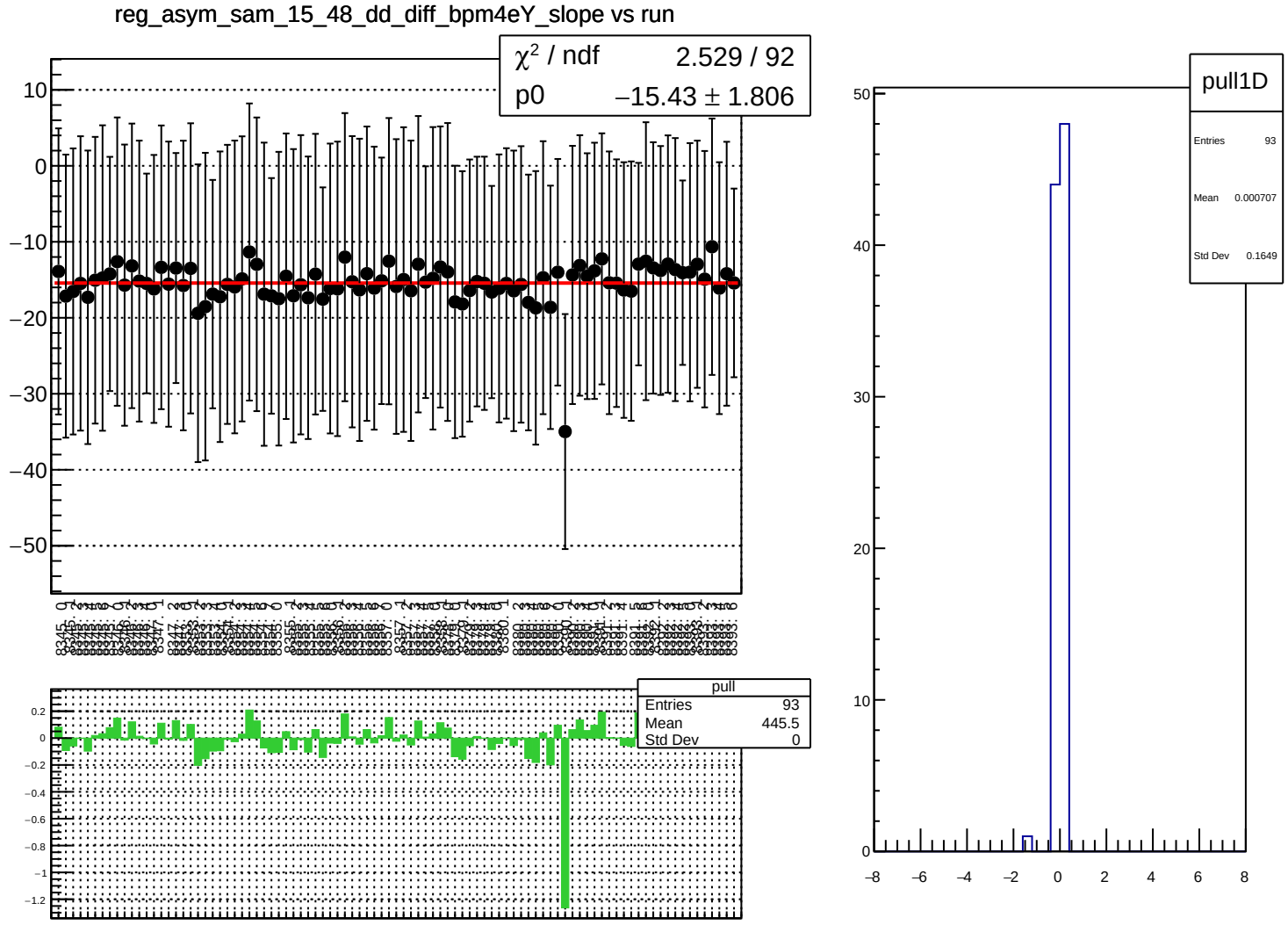

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.464 / 92
p0 −7.345 ± 2.616
pull
Entries 93
Mean 730.9
Std Dev 0
pull1D
Entries 93
Mean −0.00282
Std Dev 0.193

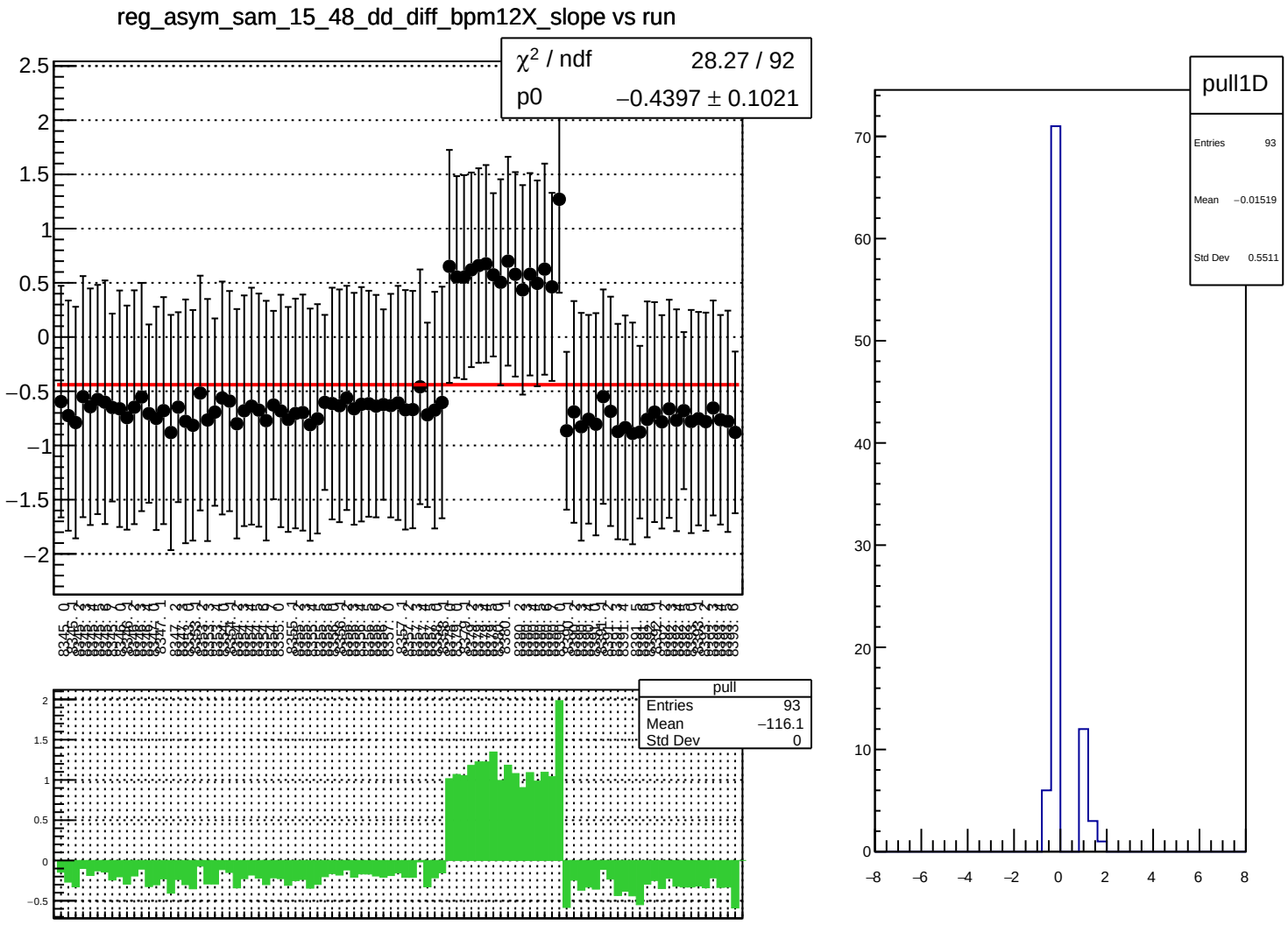

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 13.47 / 92
p0 2.036 ± 0.148
pull
Entries 93
Mean 158
Std Dev 0
pull1D
Entries 93
Mean −0.002579
Std Dev 0.3806

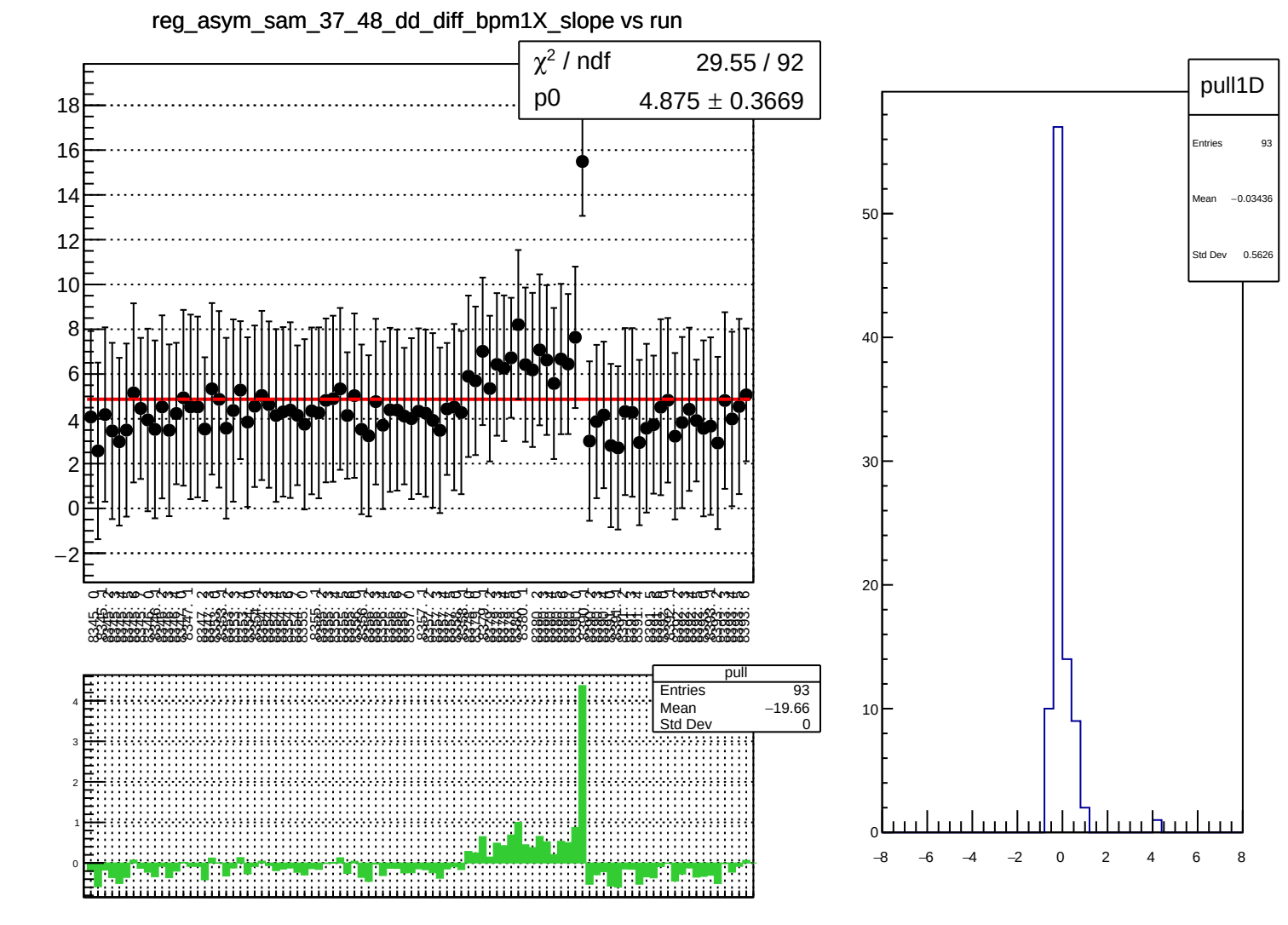

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 7.591 / 92
p0 5.525 ± 0.9832
pull
Entries 93
Mean 166.8
Std Dev 0
pull1D
Entries 93
Mean 0.02149
Std Dev 0.2849

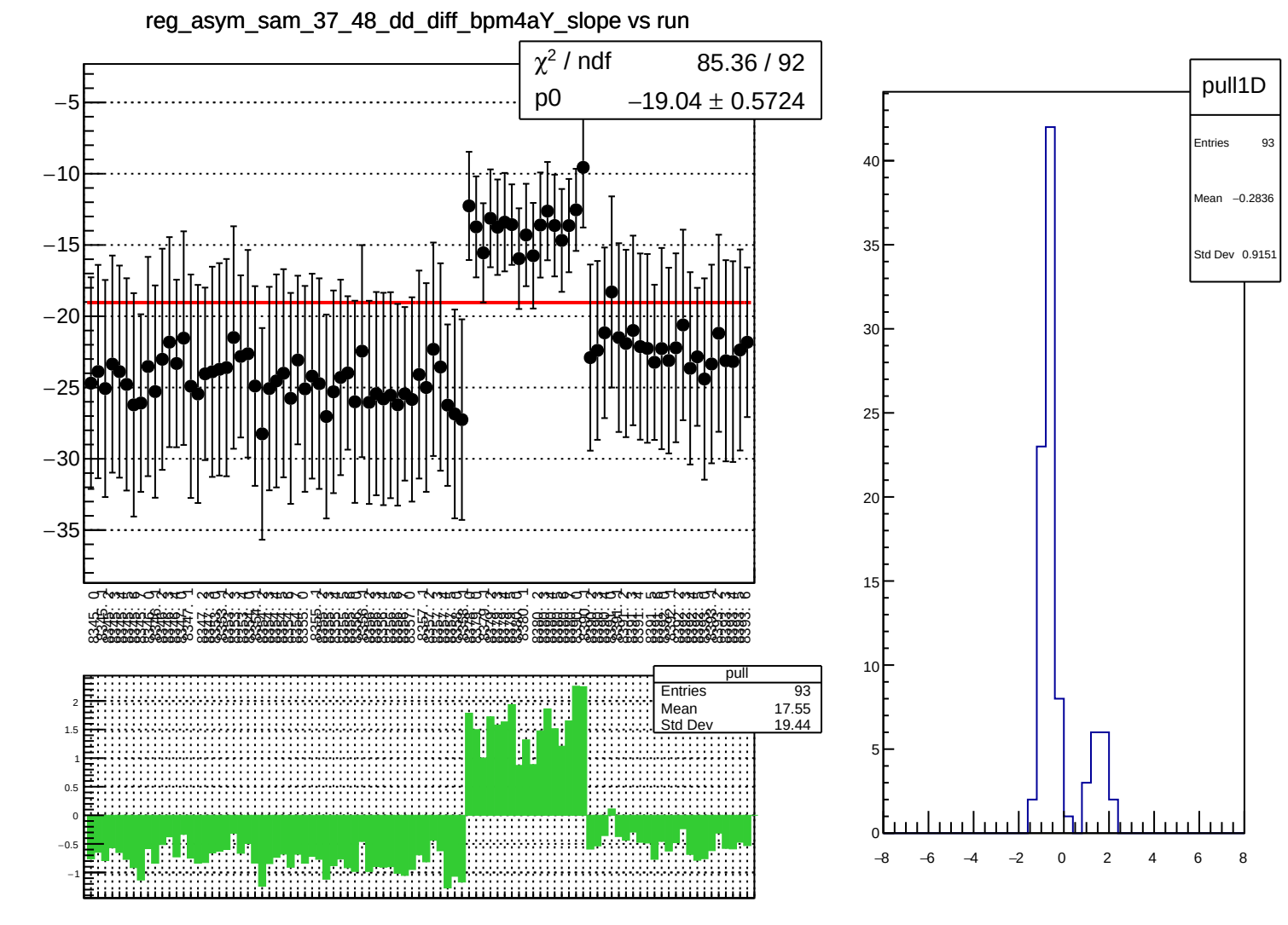

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.152 / 92
p0 −11.69 ± 1.706
pull
Entries 93
Mean −61.42
Std Dev 0
pull1D
Entries 93
Mean −0.01071
Std Dev 0.2351

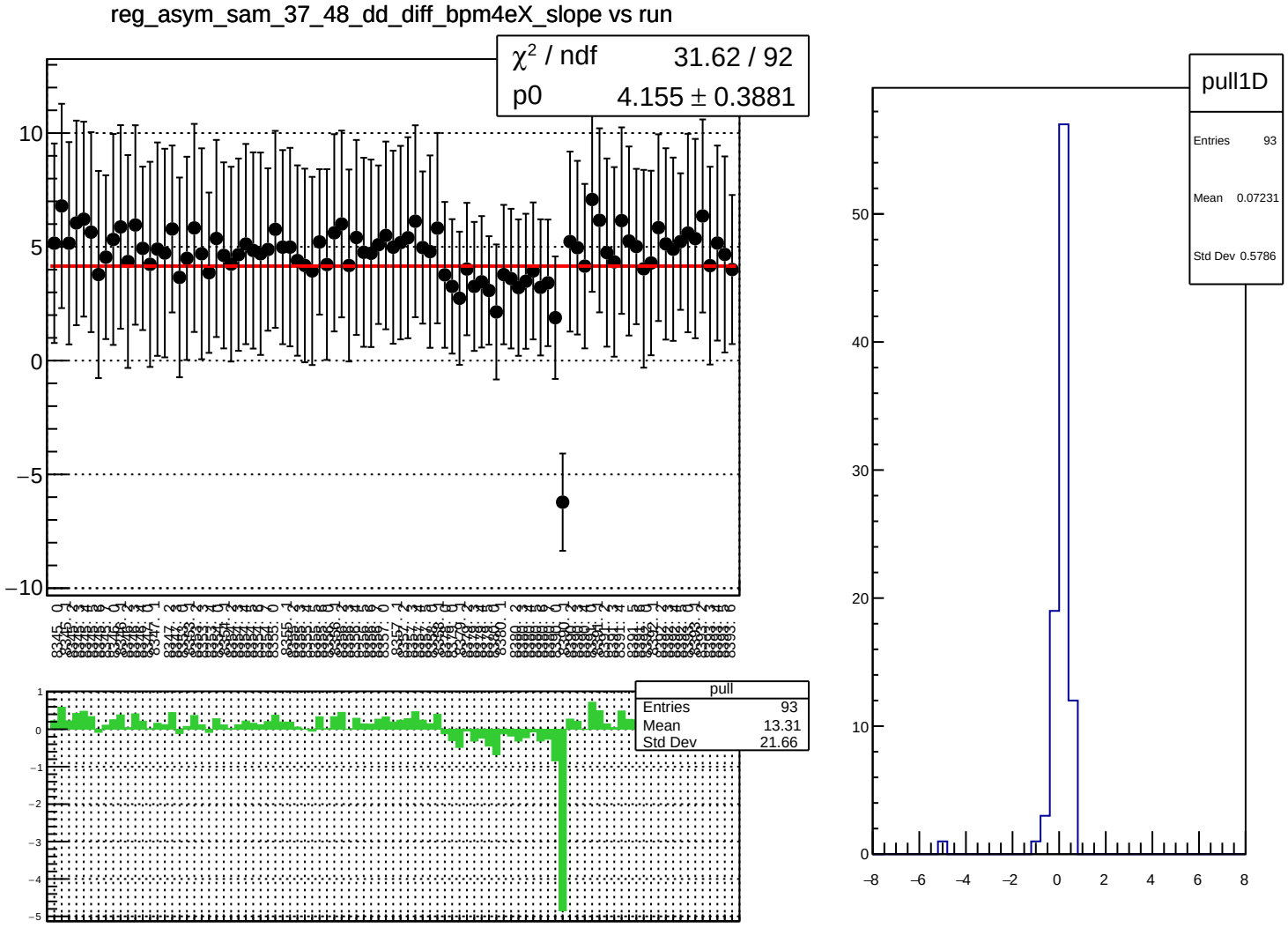

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.135 / 92
p0 43.36 ± 1.08
pull
Entries 93
Mean −702.2
Std Dev 0
pull1D
Entries 93
Mean 0.003493
Std Dev 0.235

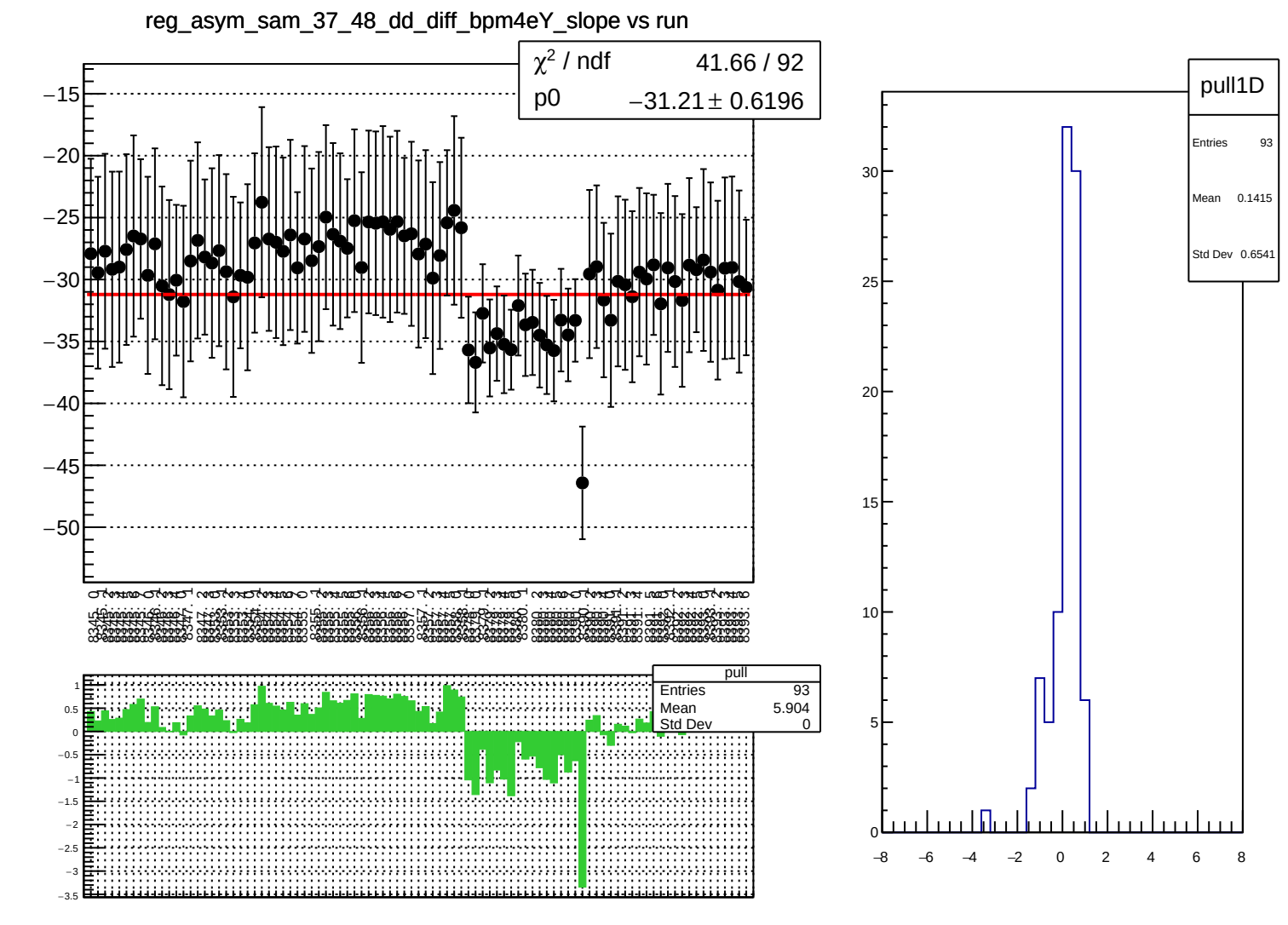

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.529 / 92
p0 −15.43 ± 1.806
pull
Entries 93
Mean 445.5
Std Dev 0
pull1D
Entries 93
Mean 0.000707
Std Dev 0.1649

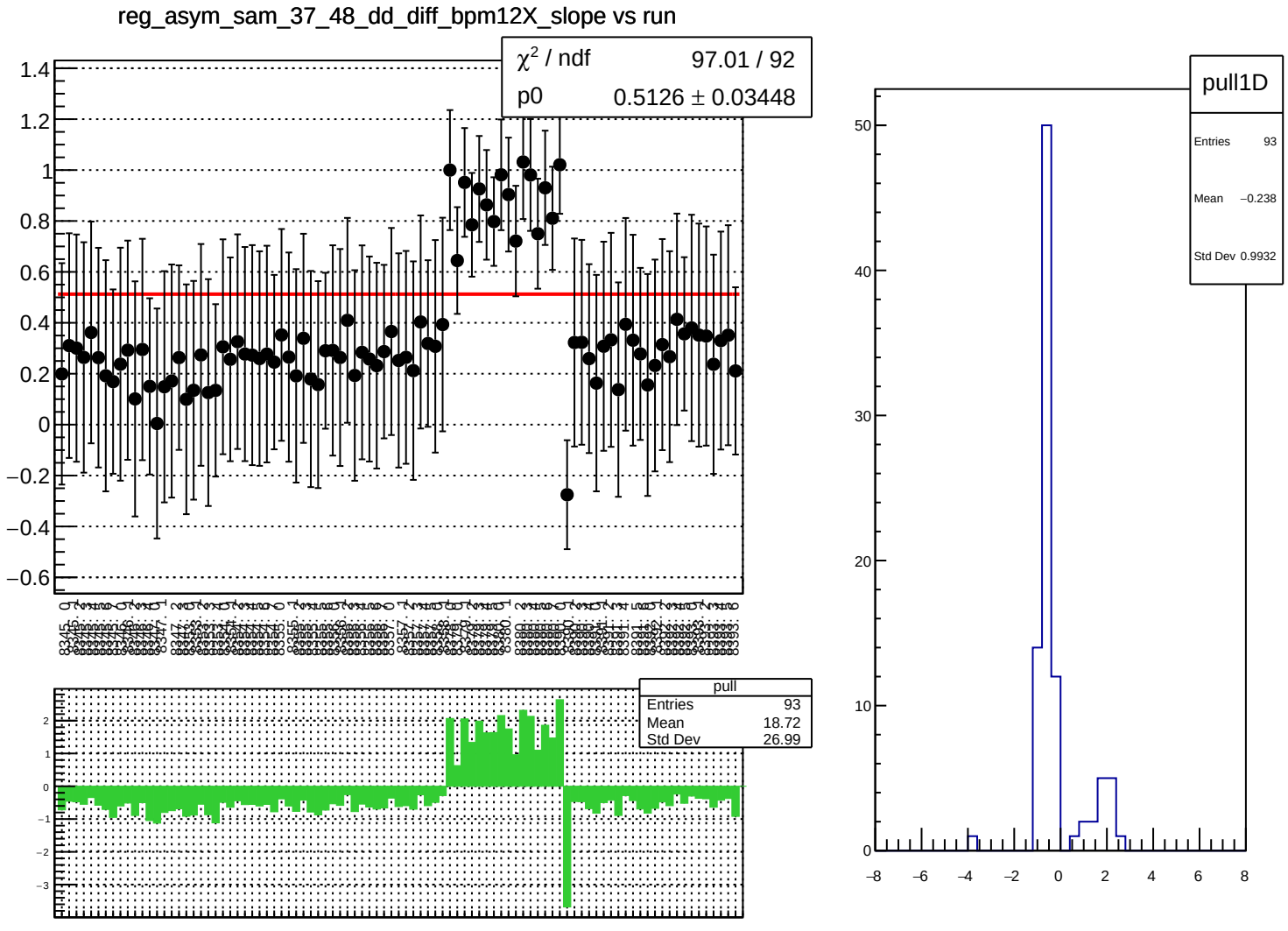

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 28.27 / 92
p0 −0.4397 ± 0.1021
pull
Entries 93
Mean −116.1
Std Dev 0
pull1D
Entries 93
Mean −0.01519
Std Dev 0.5511

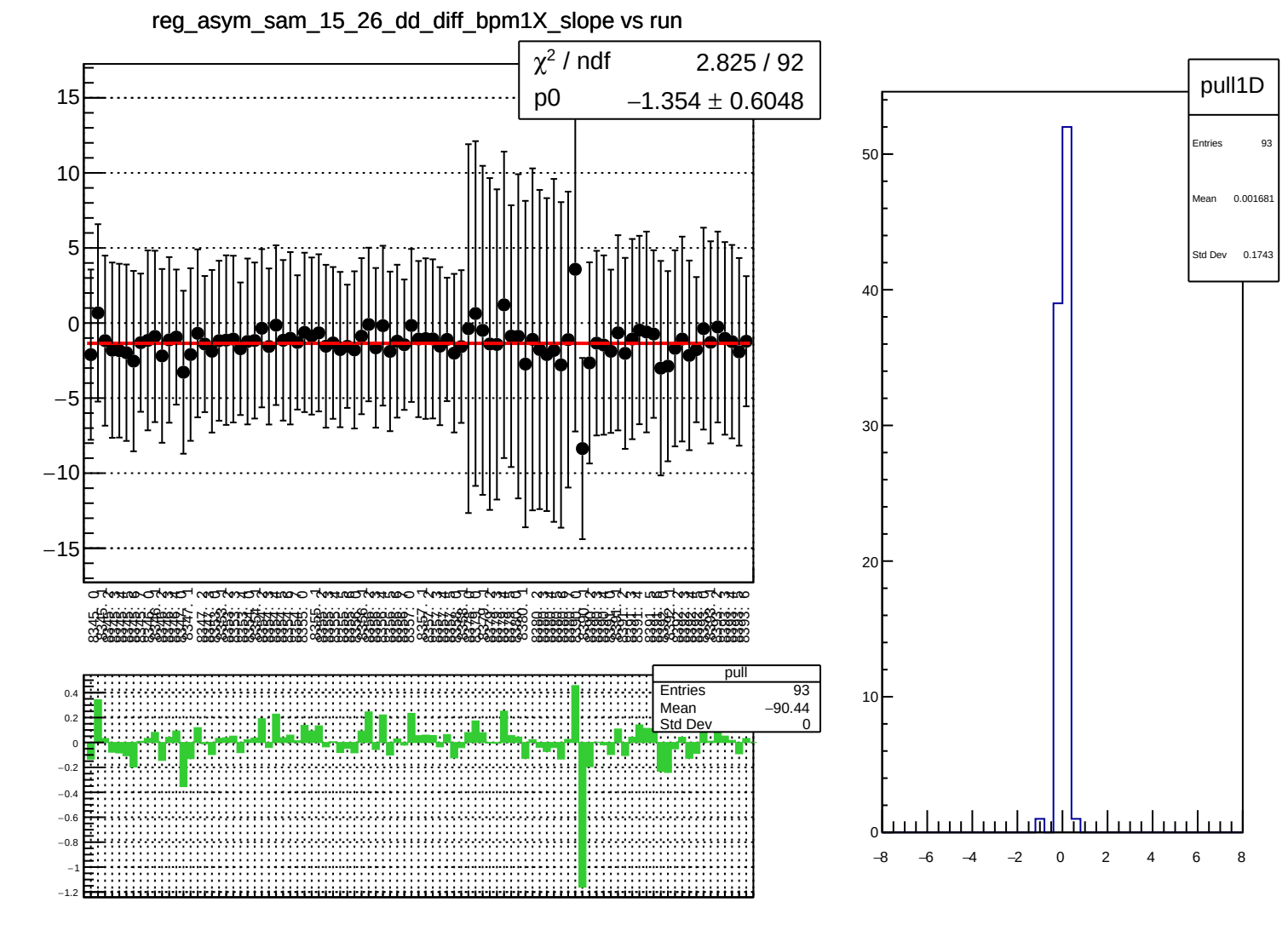

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 29.55 / 92
p0 4.875 ± 0.3669
pull
Entries 93
Mean −19.66
Std Dev 0
pull1D
Entries 93
Mean −0.03436
Std Dev 0.5626

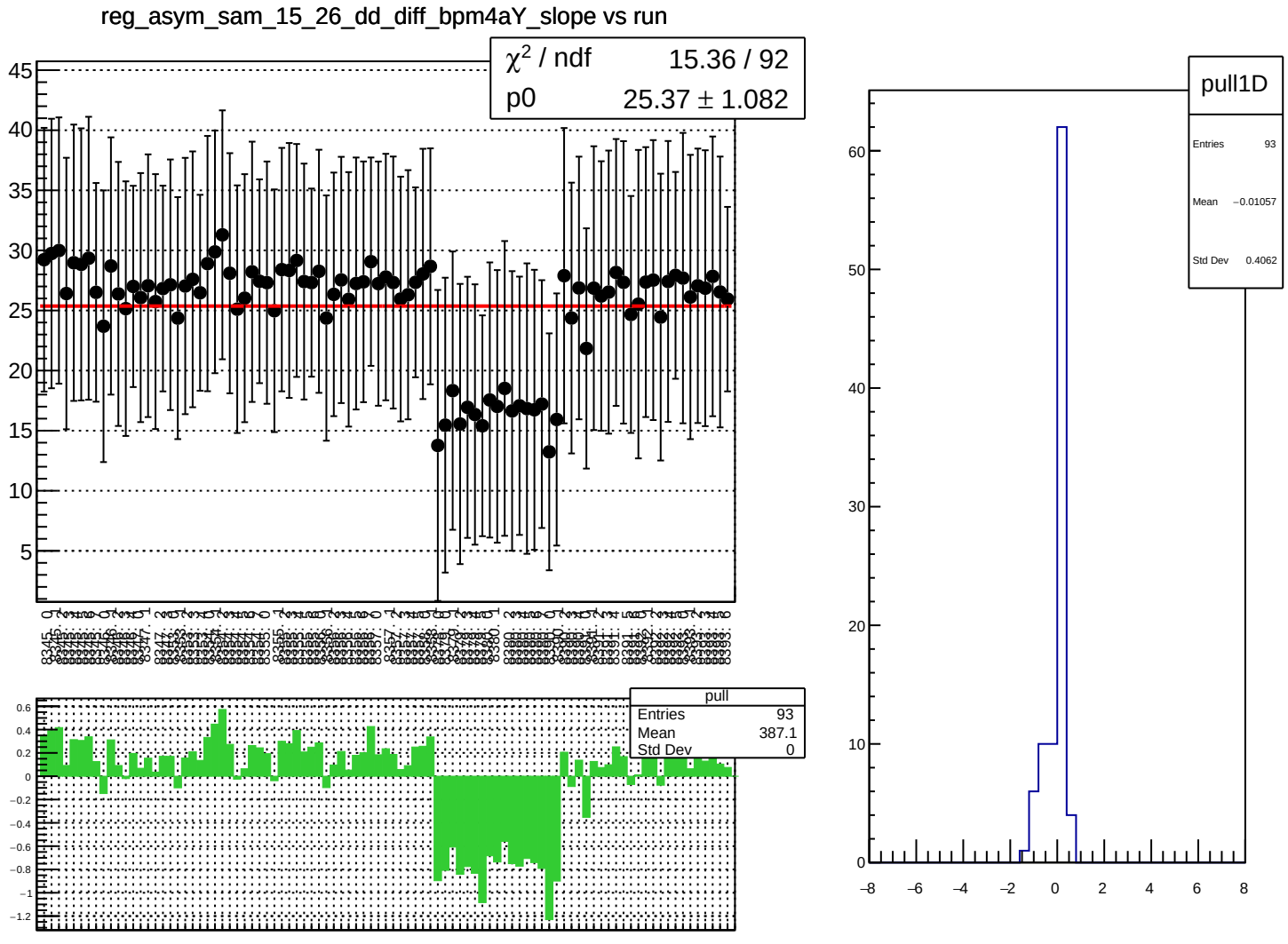

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 85.36 / 92
p0 −19.04 ± 0.5724
pull
Entries 93
Mean 17.55
Std Dev 19.44
pull1D
Entries 93
Mean −0.2836
Std Dev 0.9151

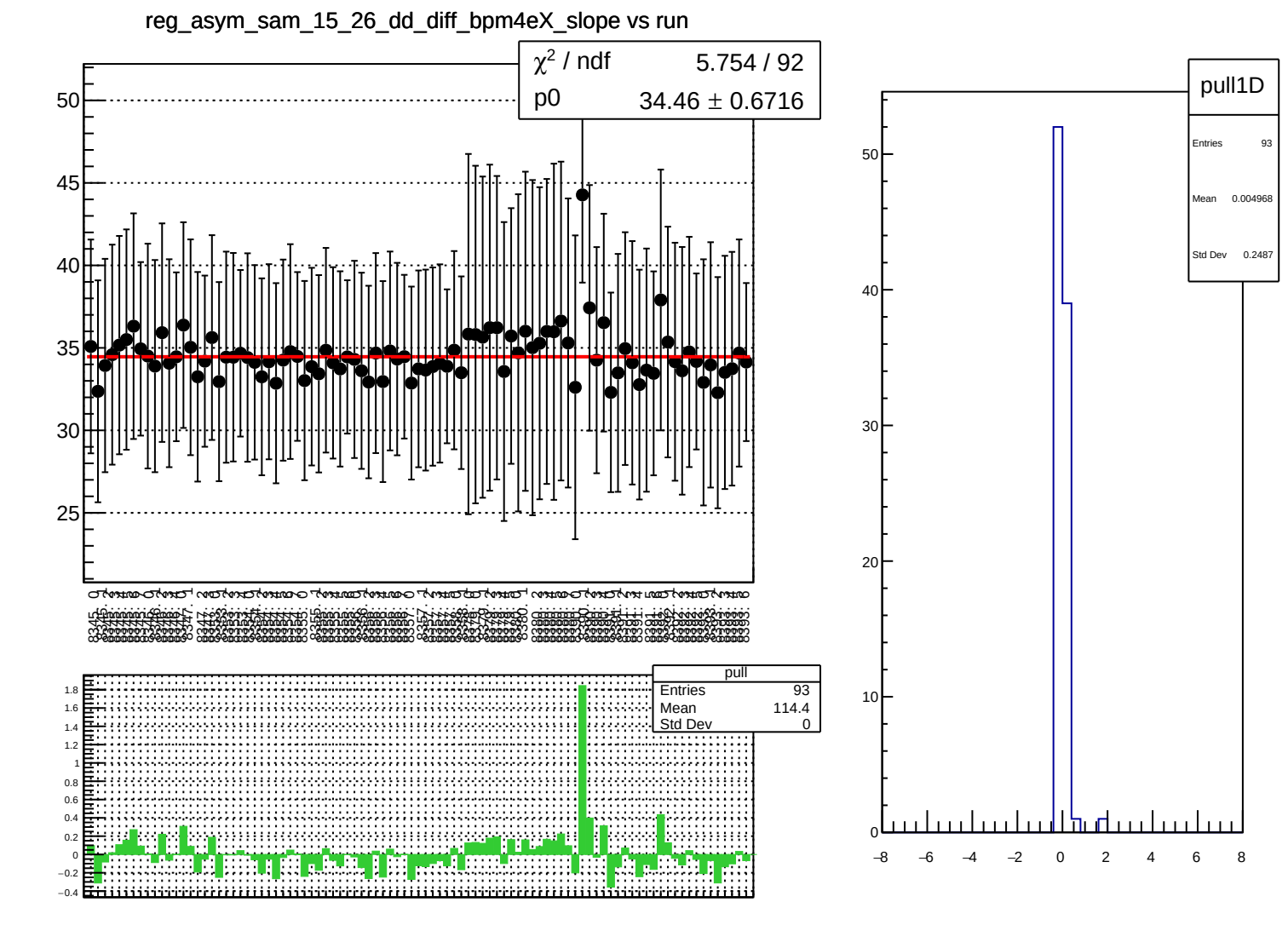

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 31.62 / 92
p0 4.155 ± 0.3881
pull
Entries 93
Mean 13.31
Std Dev 21.66
pull1D
Entries 93
Mean 0.07231
Std Dev 0.5786

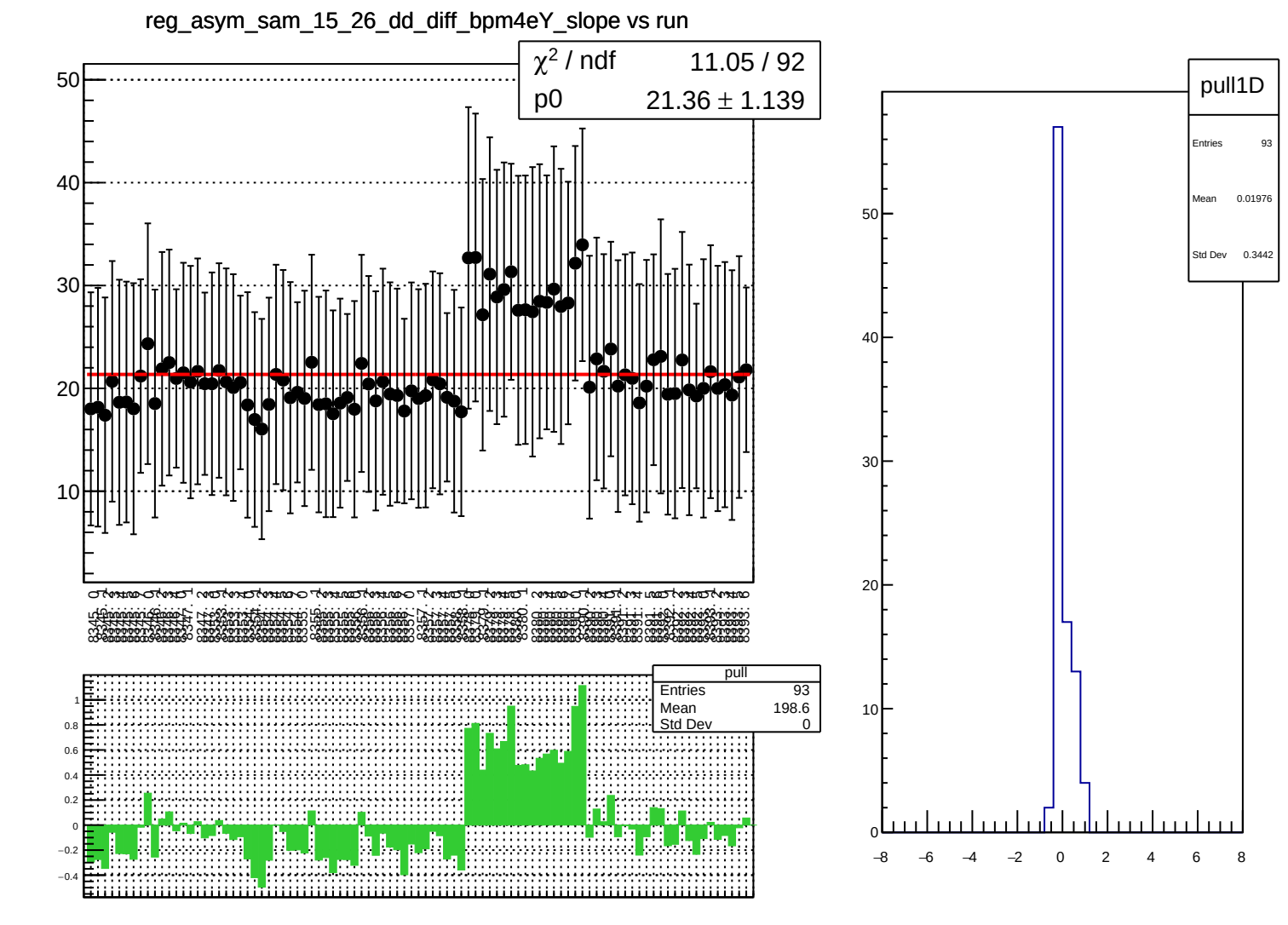

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 41.66 / 92
p0 −31.21 ± 0.6196
pull
Entries 93
Mean 5.904
Std Dev 0
pull1D
Entries 93
Mean 0.1415
Std Dev 0.6541

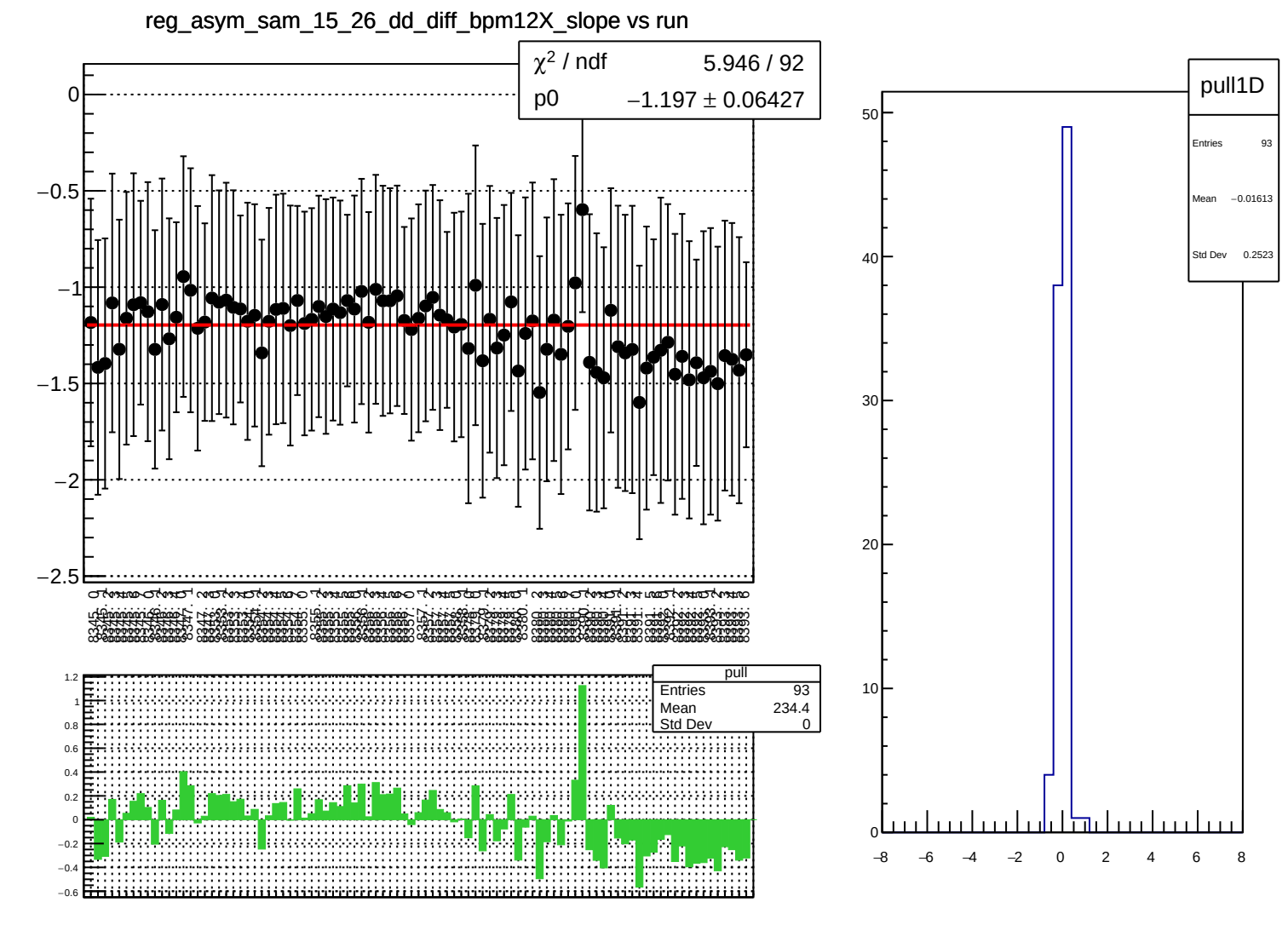

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 97.01 / 92
p0 0.5126 ± 0.03448
pull
Entries 93
Mean 18.72
Std Dev 26.99
pull1D
Entries 93
Mean −0.238
Std Dev 0.9932

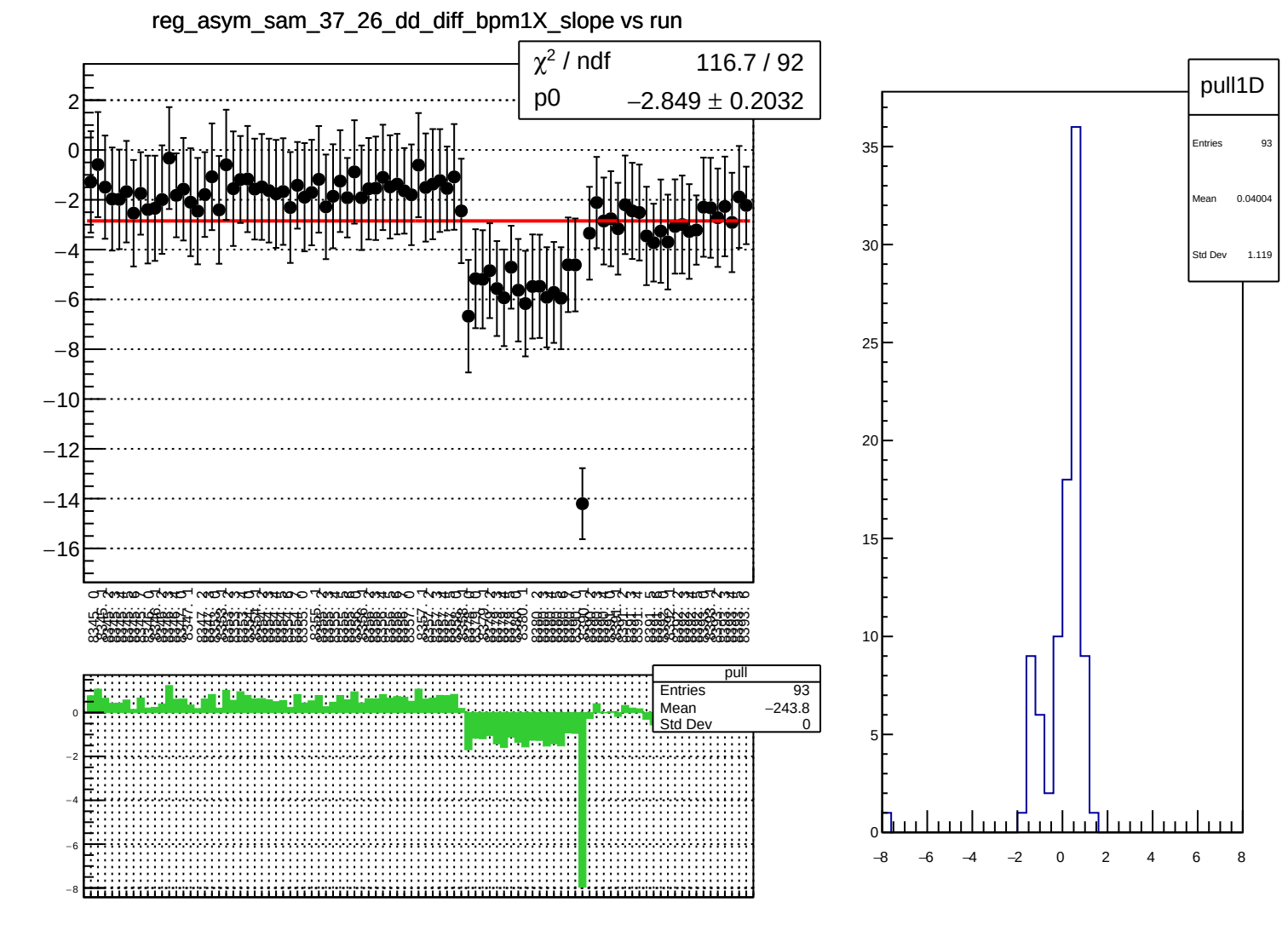

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 2.825 / 92
p0 −1.354 ± 0.6048
pull
Entries 93
Mean −90.44
Std Dev 0
pull1D
Entries 93
Mean 0.001681
Std Dev 0.1743

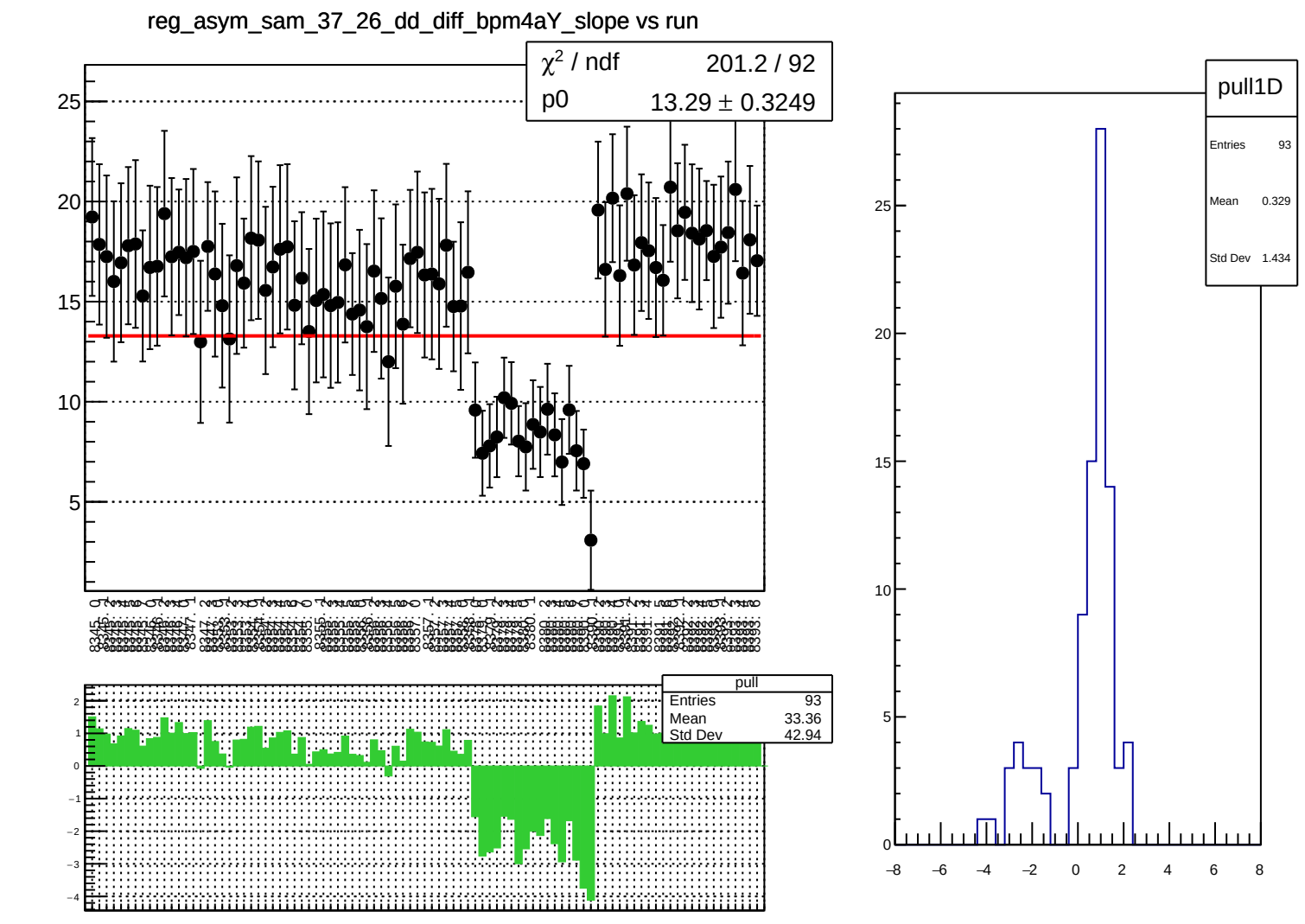

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 15.36 / 92
p0 25.37 ± 1.082
pull
Entries 93
Mean 387.1
Std Dev 0
pull1D
Entries 93
Mean −0.01057
Std Dev 0.4062

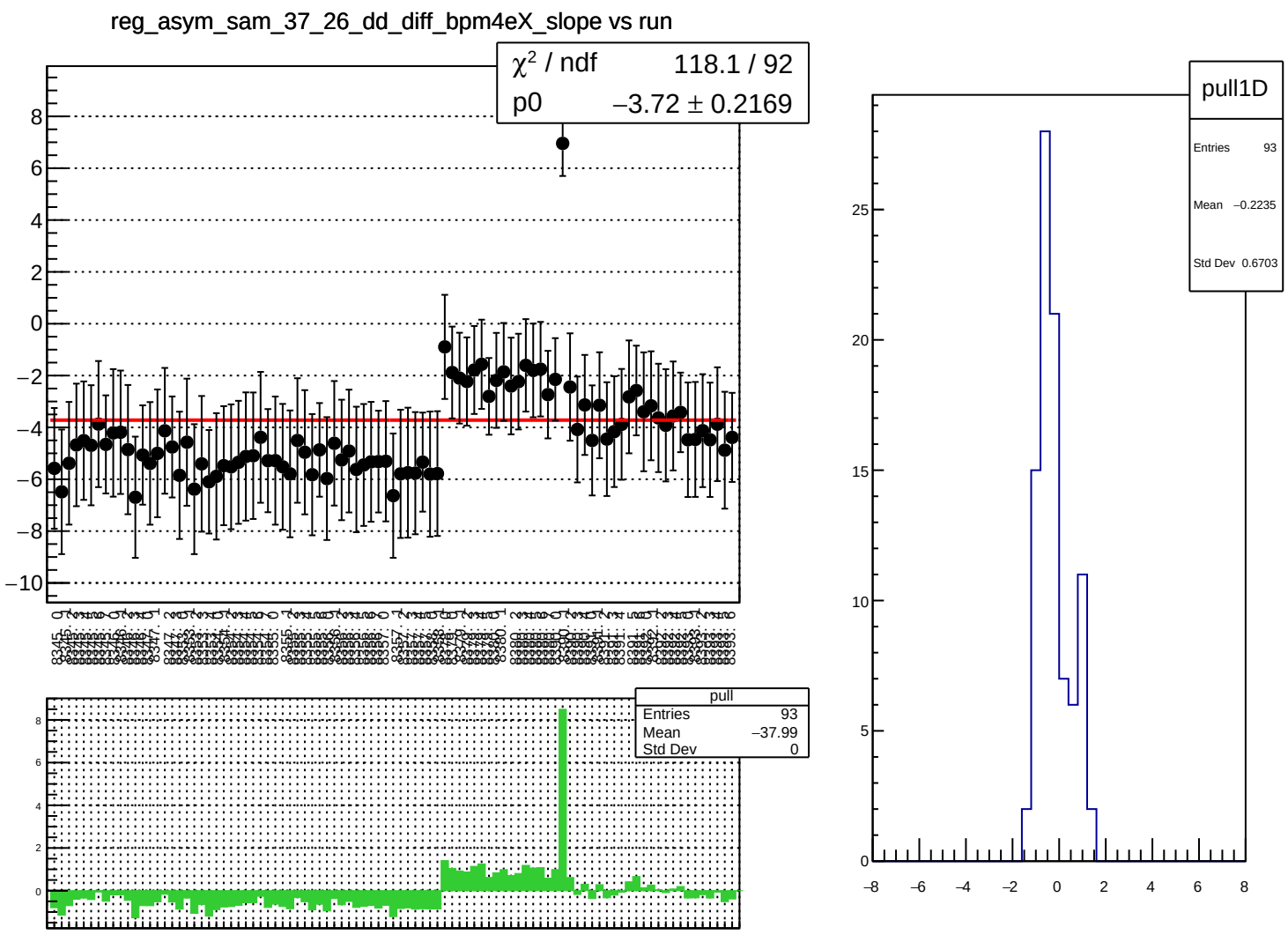

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.754 / 92
p0 34.46 ± 0.6716
pull
Entries 93
Mean 114.4
Std Dev 0
pull1D
Entries 93
Mean 0.004968
Std Dev 0.2487

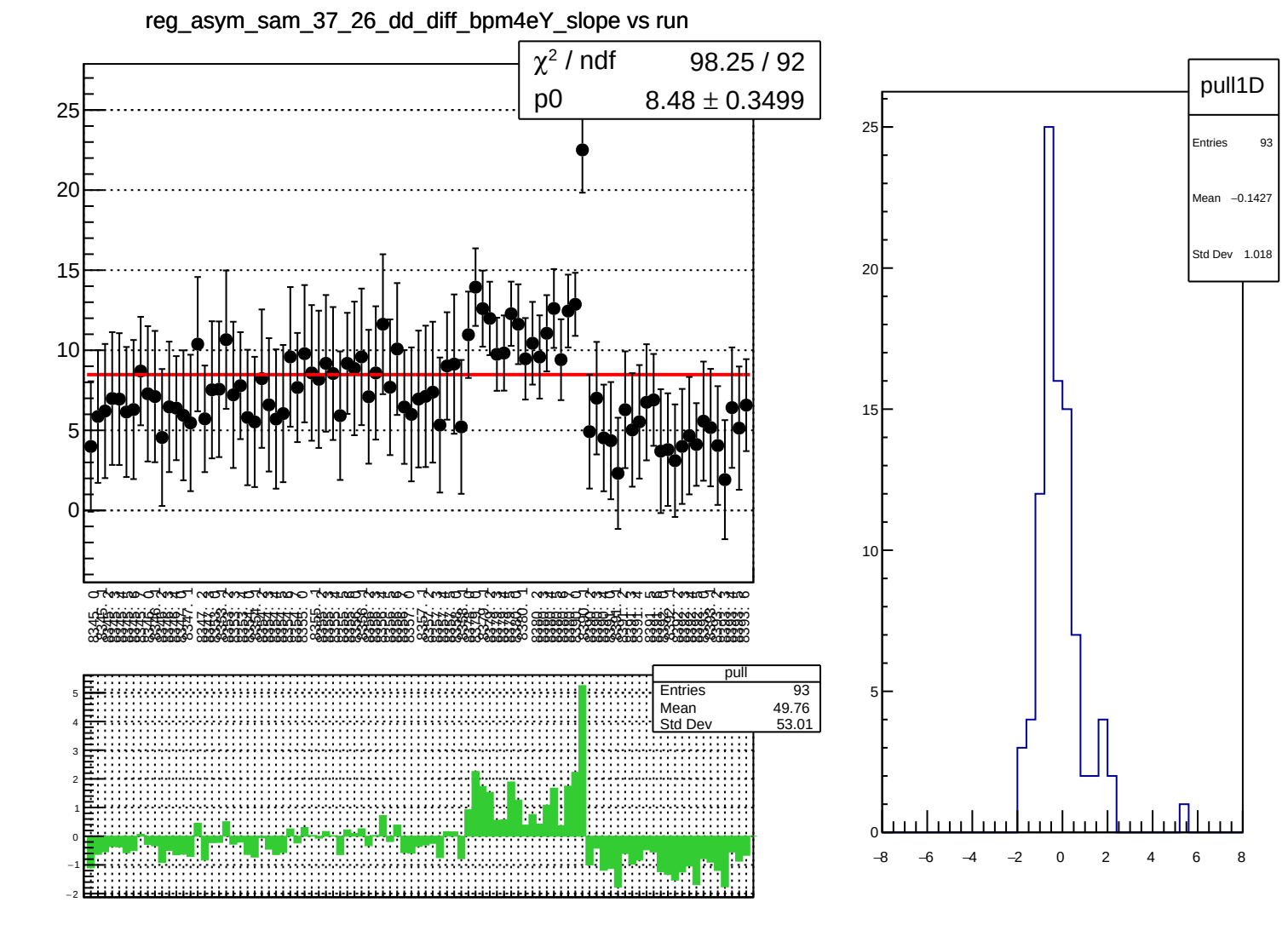

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.05 / 92
p0 21.36 ± 1.139
pull
Entries 93
Mean 198.6
Std Dev 0
pull1D
Entries 93
Mean 0.01976
Std Dev 0.3442

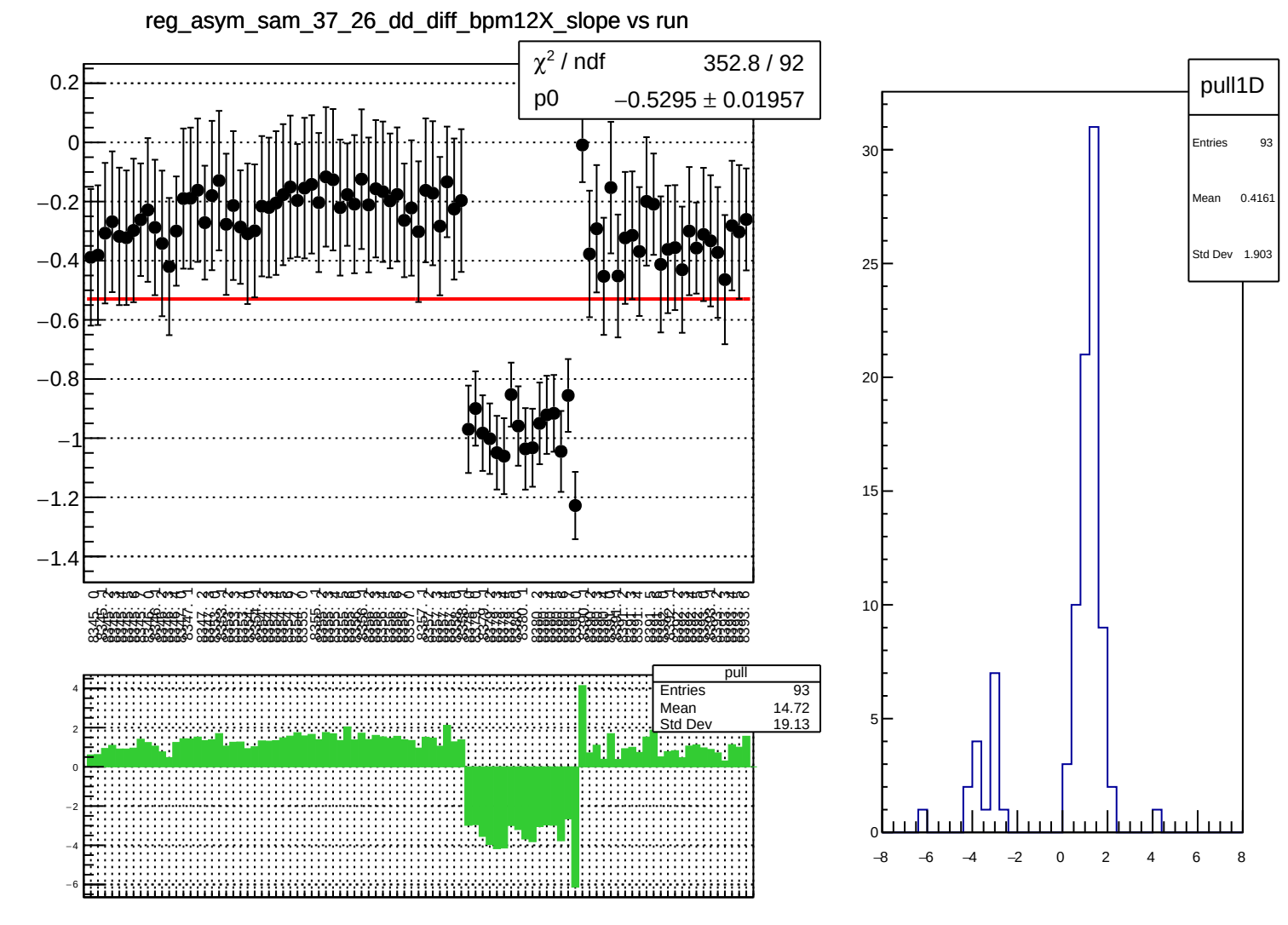

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 5.946 / 92
p0 −1.197 ± 0.06427
pull
Entries 93
Mean 234.4
Std Dev 0
pull1D
Entries 93
Mean −0.01613
Std Dev 0.2523

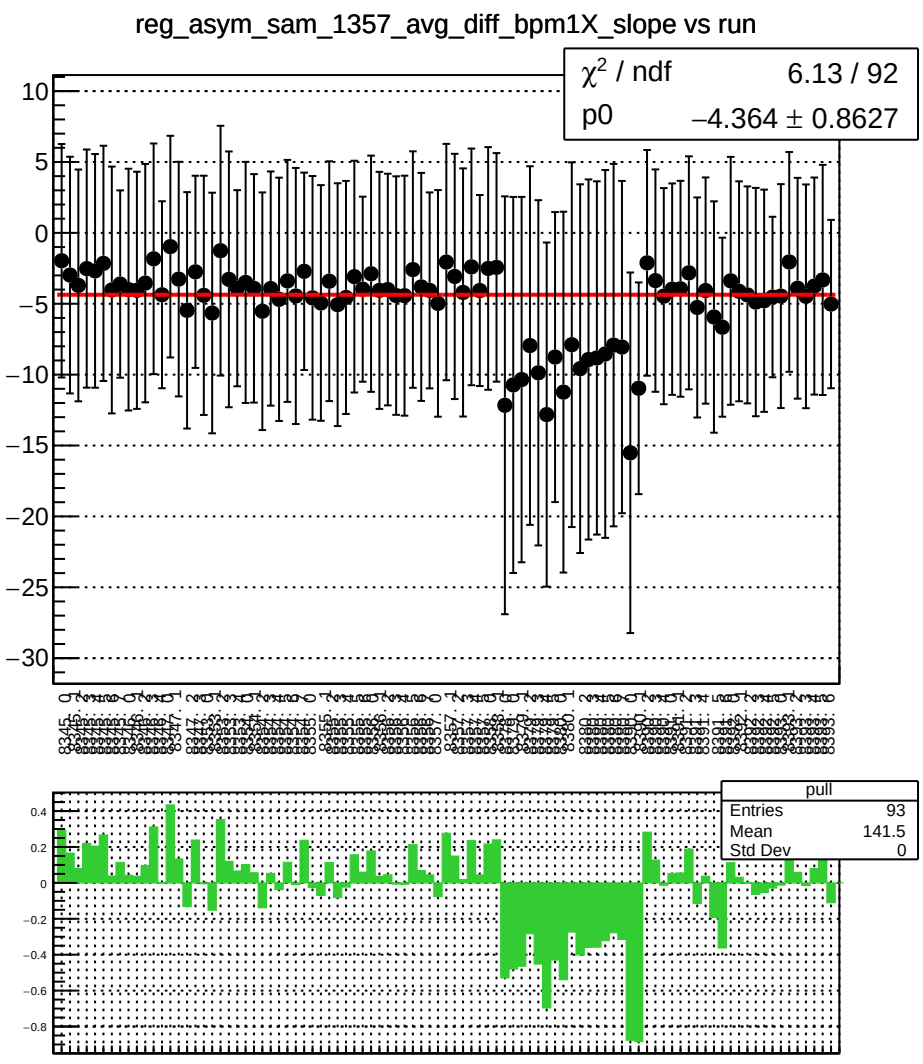

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 116.7 / 92
p0 −2.849 ± 0.2032
pull
Entries 93
Mean −243.8
Std Dev 0
pull1D
Entries 93
Mean 0.04004
Std Dev 1.119

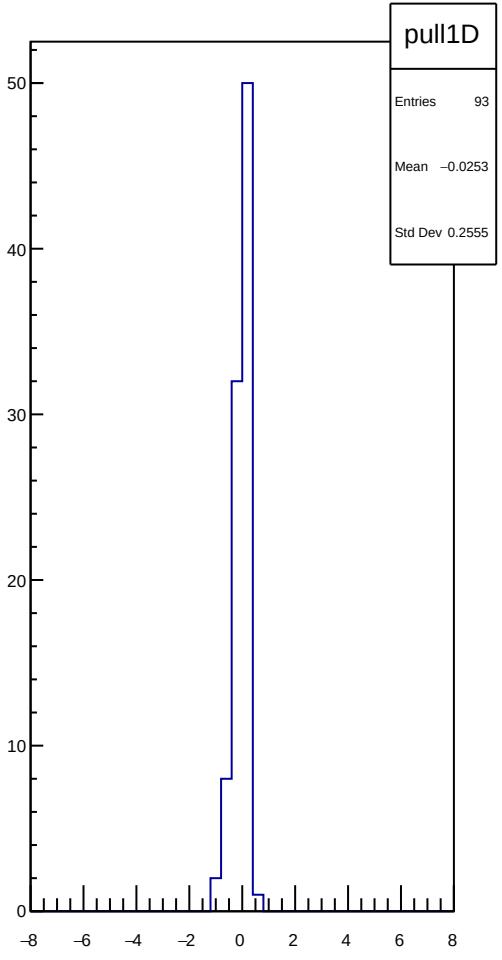

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 201.2 / 92
p0 13.29 ± 0.3249
pull
Entries 93
Mean 33.36
Std Dev 42.94
pull1D
Entries 93
Mean 0.329
Std Dev 1.434

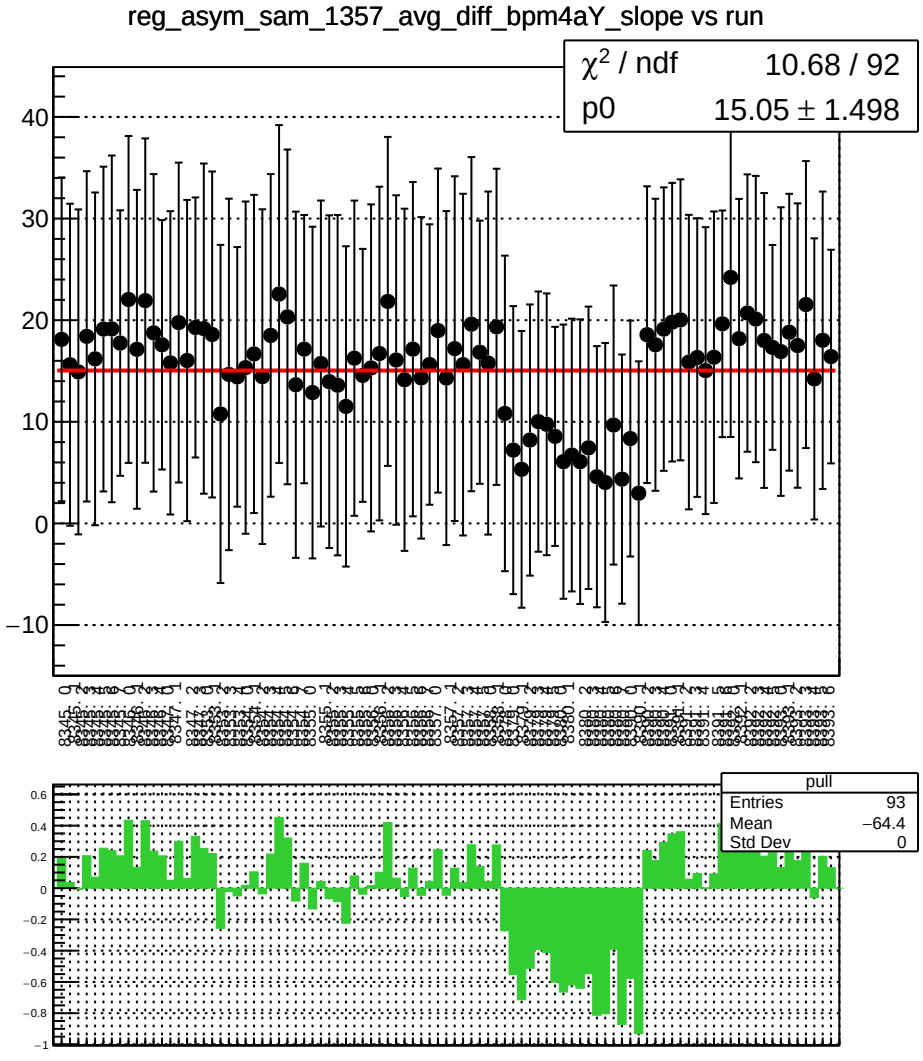

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 118.1 / 92
p0 −3.72 ± 0.2169
pull
Entries 93
Mean −37.99
Std Dev 0
pull1D
Entries 93
Mean −0.2235
Std Dev 0.6703

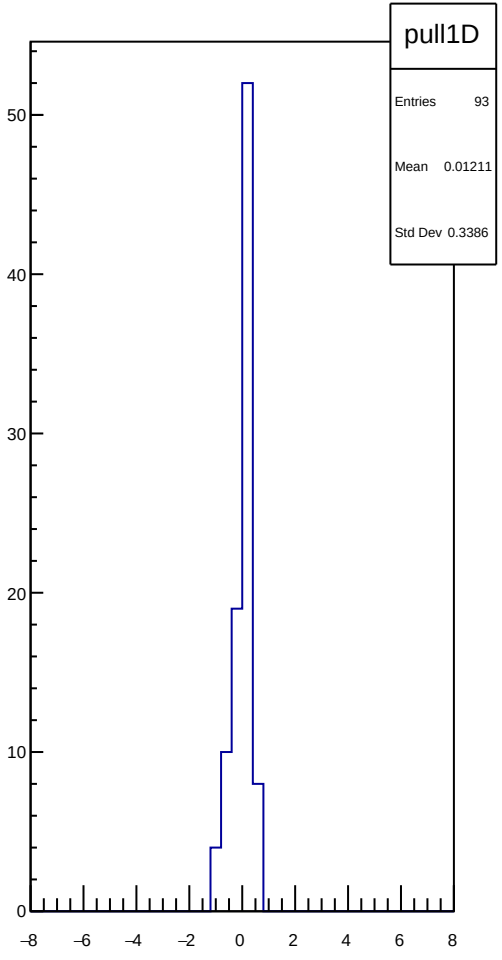

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 98.25 / 92
p0 8.48 ± 0.3499
pull
Entries 93
Mean 49.76
Std Dev 53.01
pull1D
Entries 93
Mean −0.1427
Std Dev 1.018

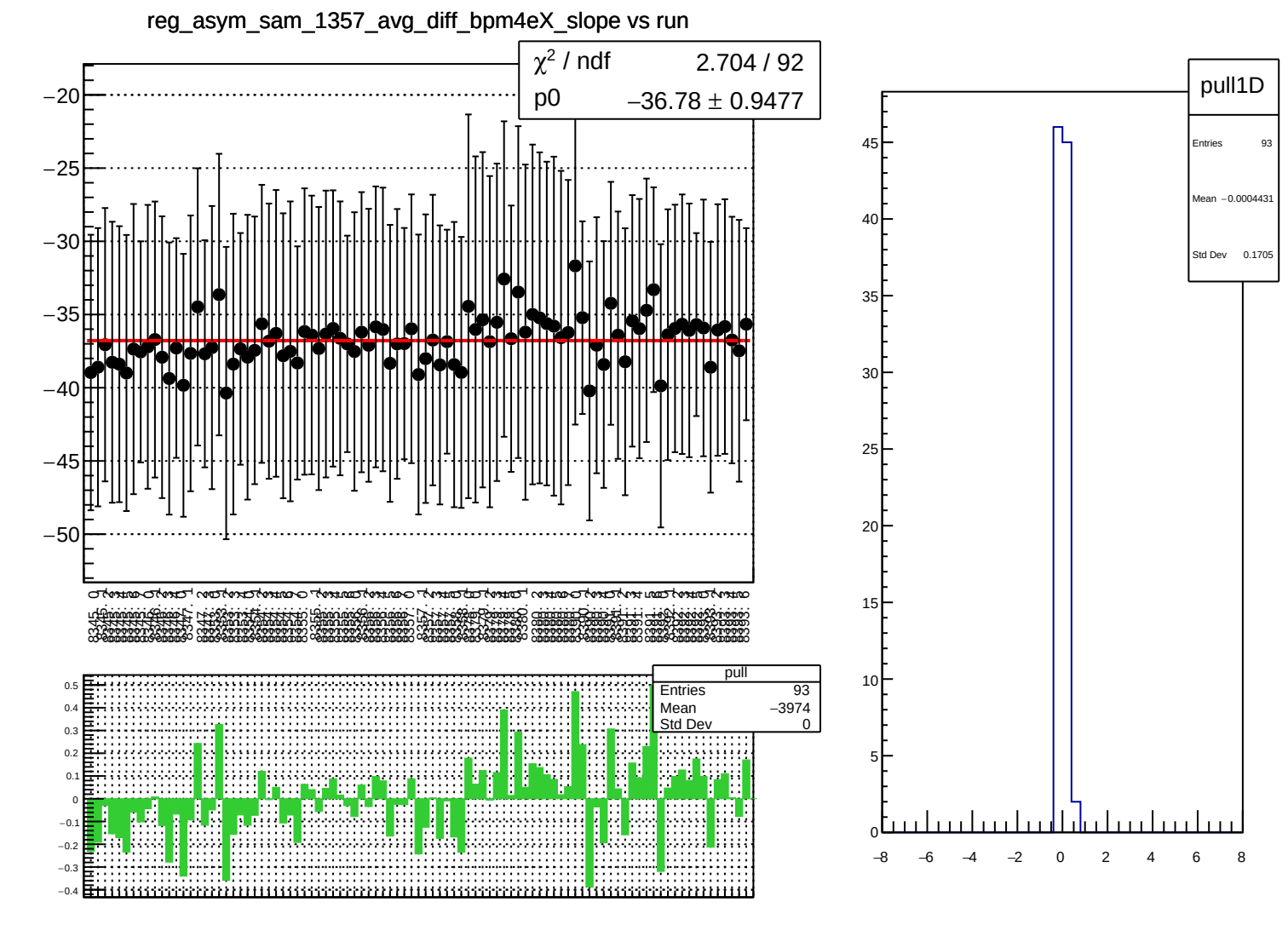

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 352.8 / 92
p0 −0.5295 ± 0.01957
pull
Entries 93
Mean 14.72
Std Dev 19.13
pull1D
Entries 93
Mean 0.4161
Std Dev 1.903

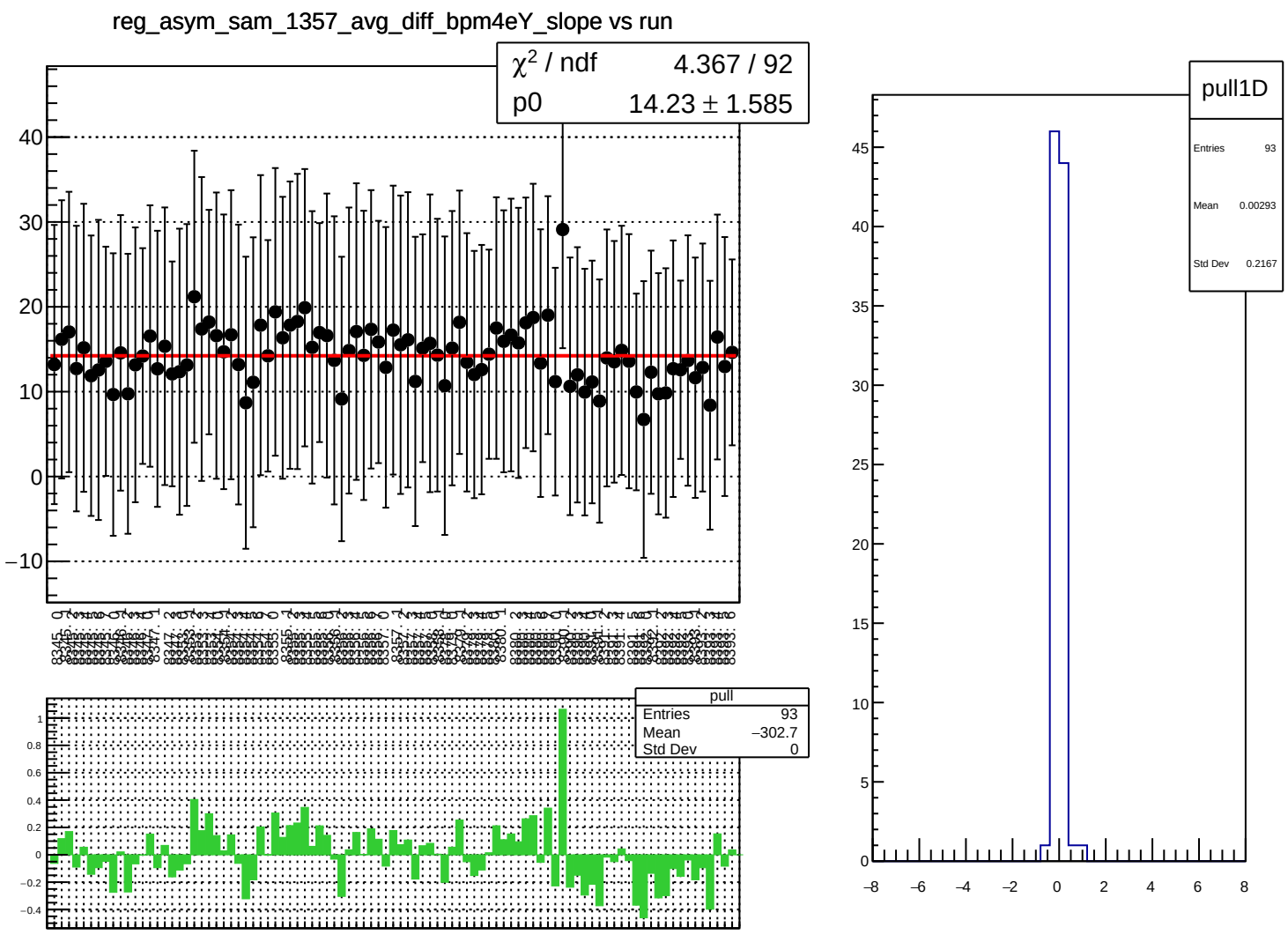

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 6.13 / 92
p0 −4.364 ± 0.8627
pull
Entries 93
Mean 141.5
Std Dev 0

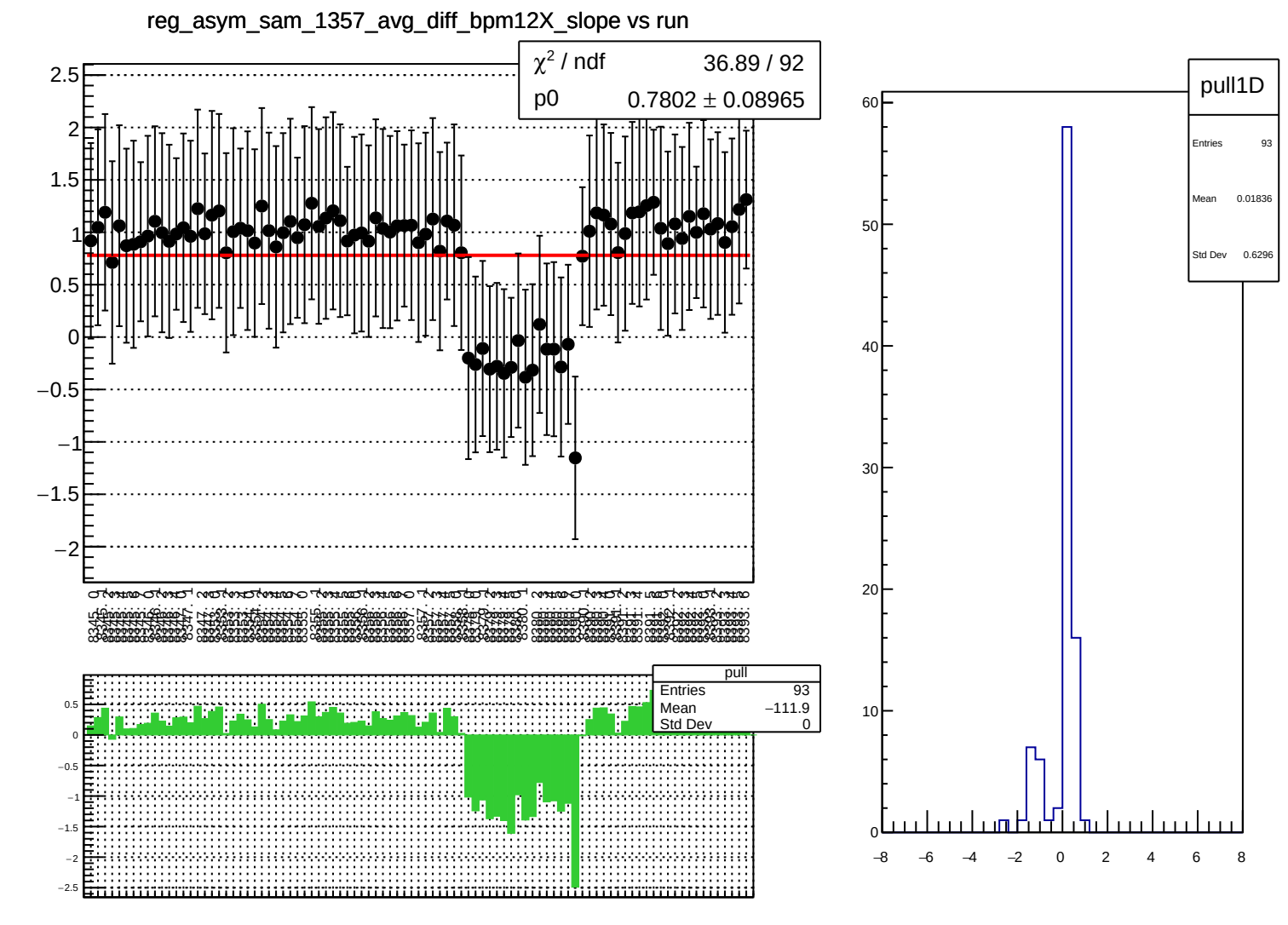

pull1D
Entries 93
Mean −0.0253
Std Dev 0.2555

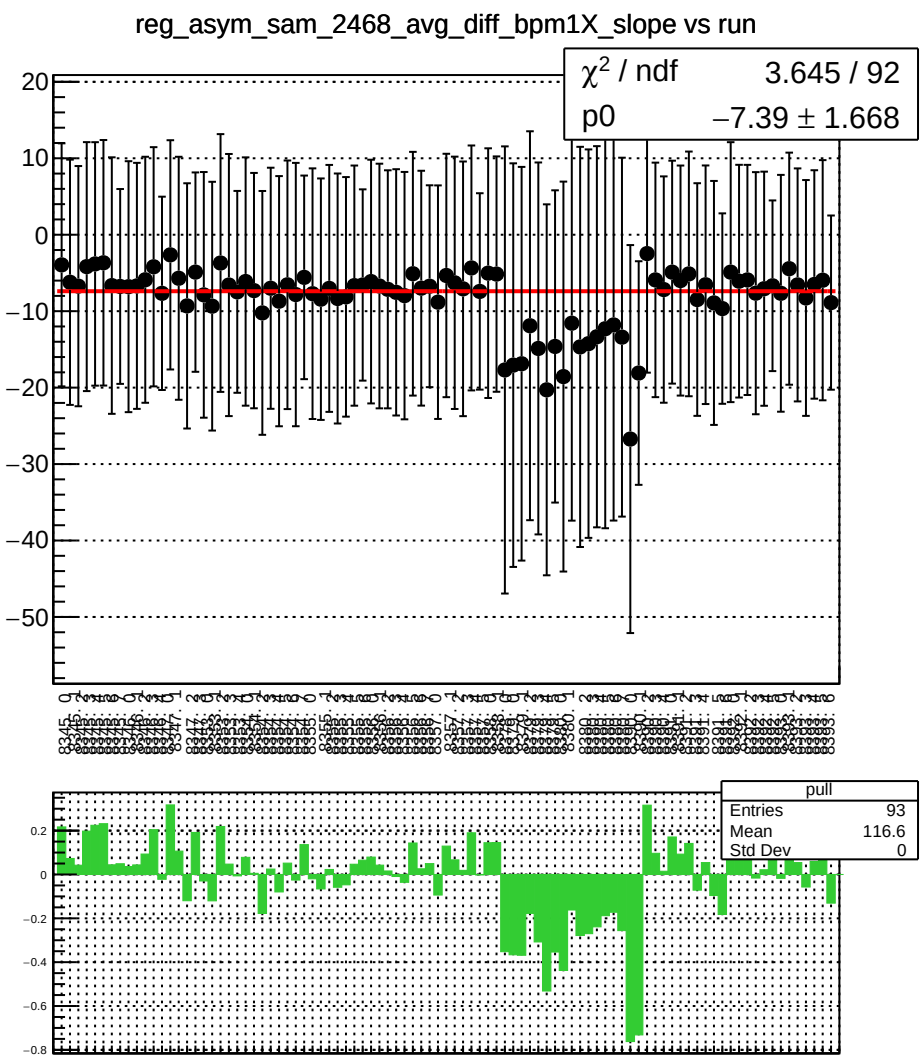

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 10.68 / 92
p0 15.05 ± 1.498
pull
Entries 93
Mean −64.4
Std Dev 0

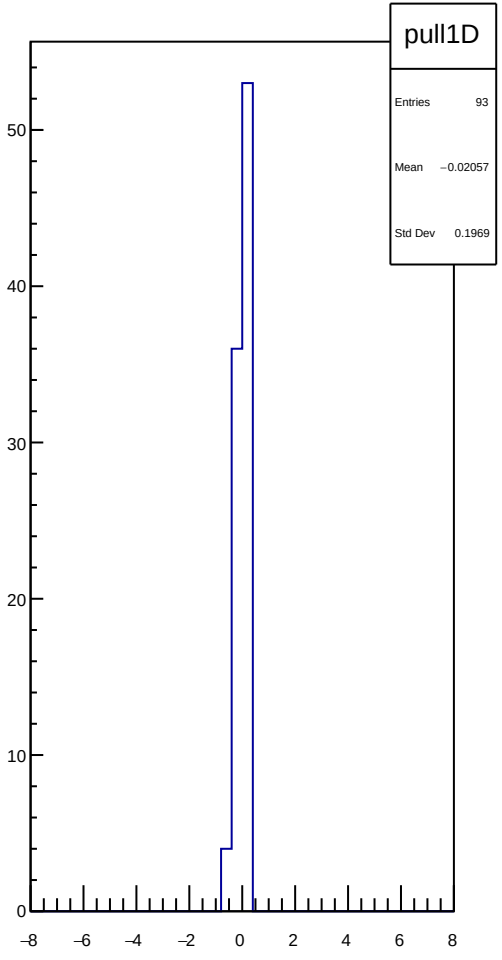

pull1D
Entries 93
Mean 0.01211
Std Dev 0.3386

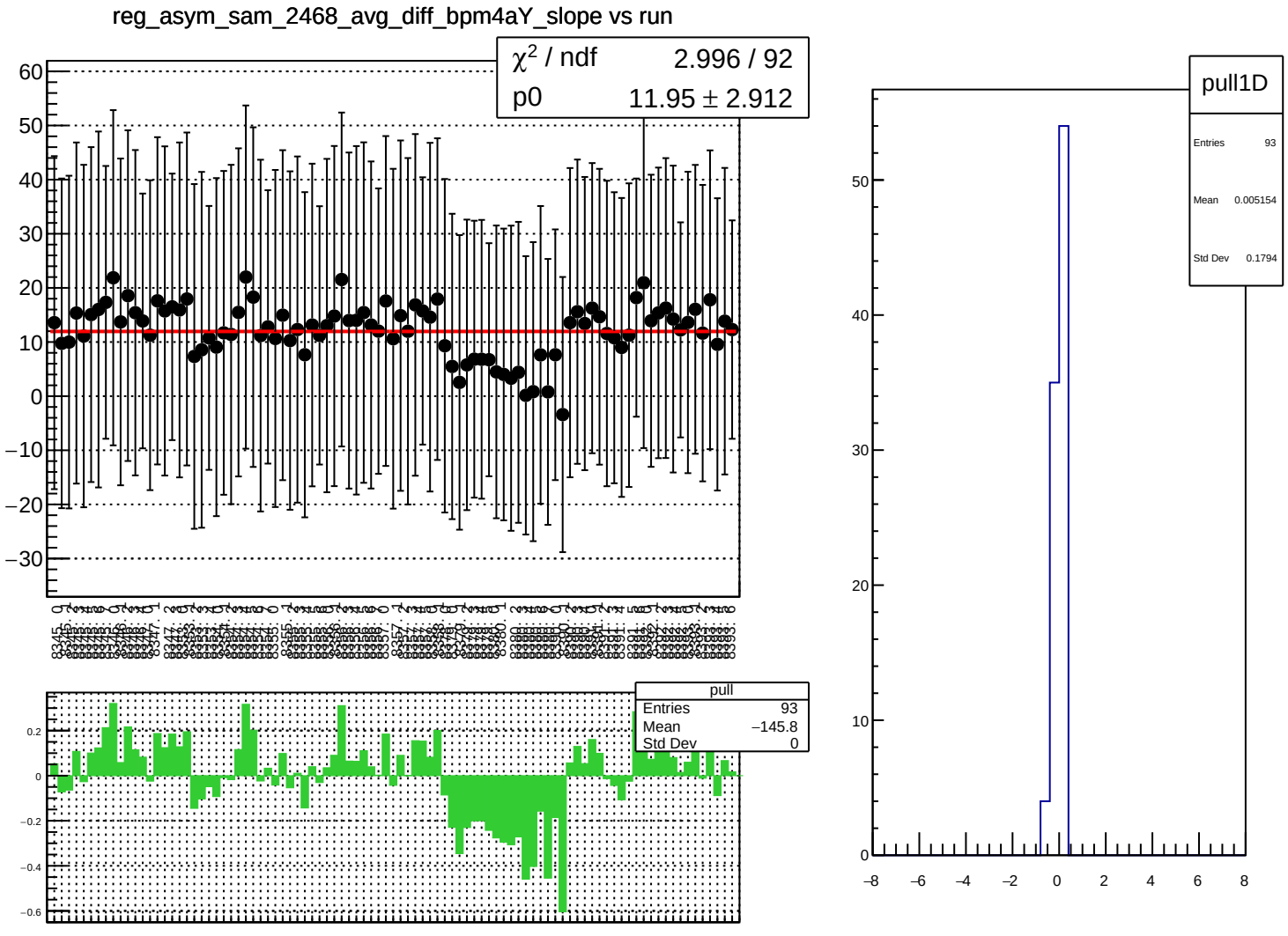

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.704 / 92
p0 −36.78 ± 0.9477
pull
Entries 93
Mean −3974
Std Dev 0
pull1D
Entries 93
Mean −0.0004431
Std Dev 0.1705

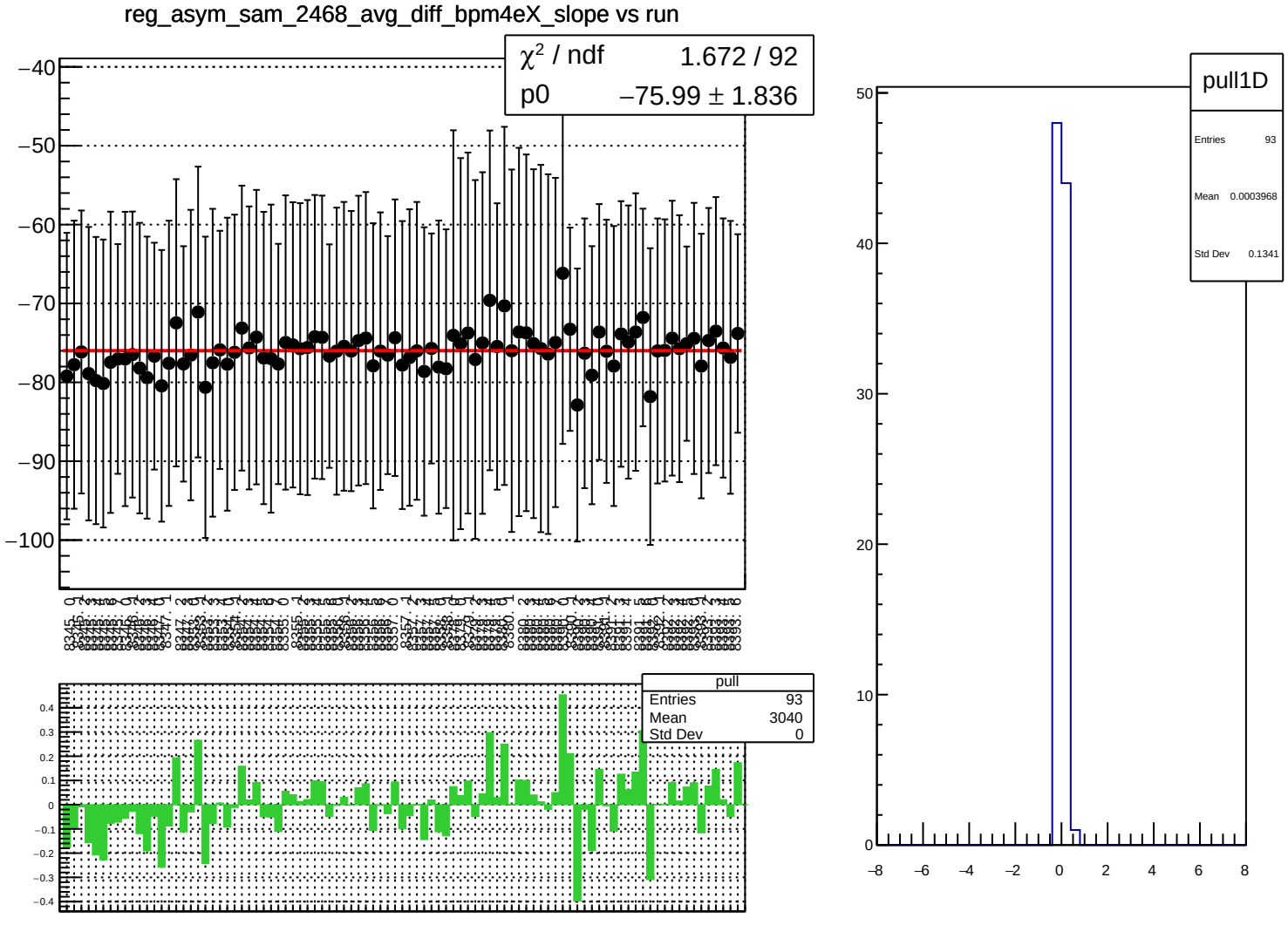

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.367 / 92
p0 14.23 ± 1.585
pull
Entries 93
Mean −302.7
Std Dev 0
pull1D
Entries 93
Mean 0.00293
Std Dev 0.2167

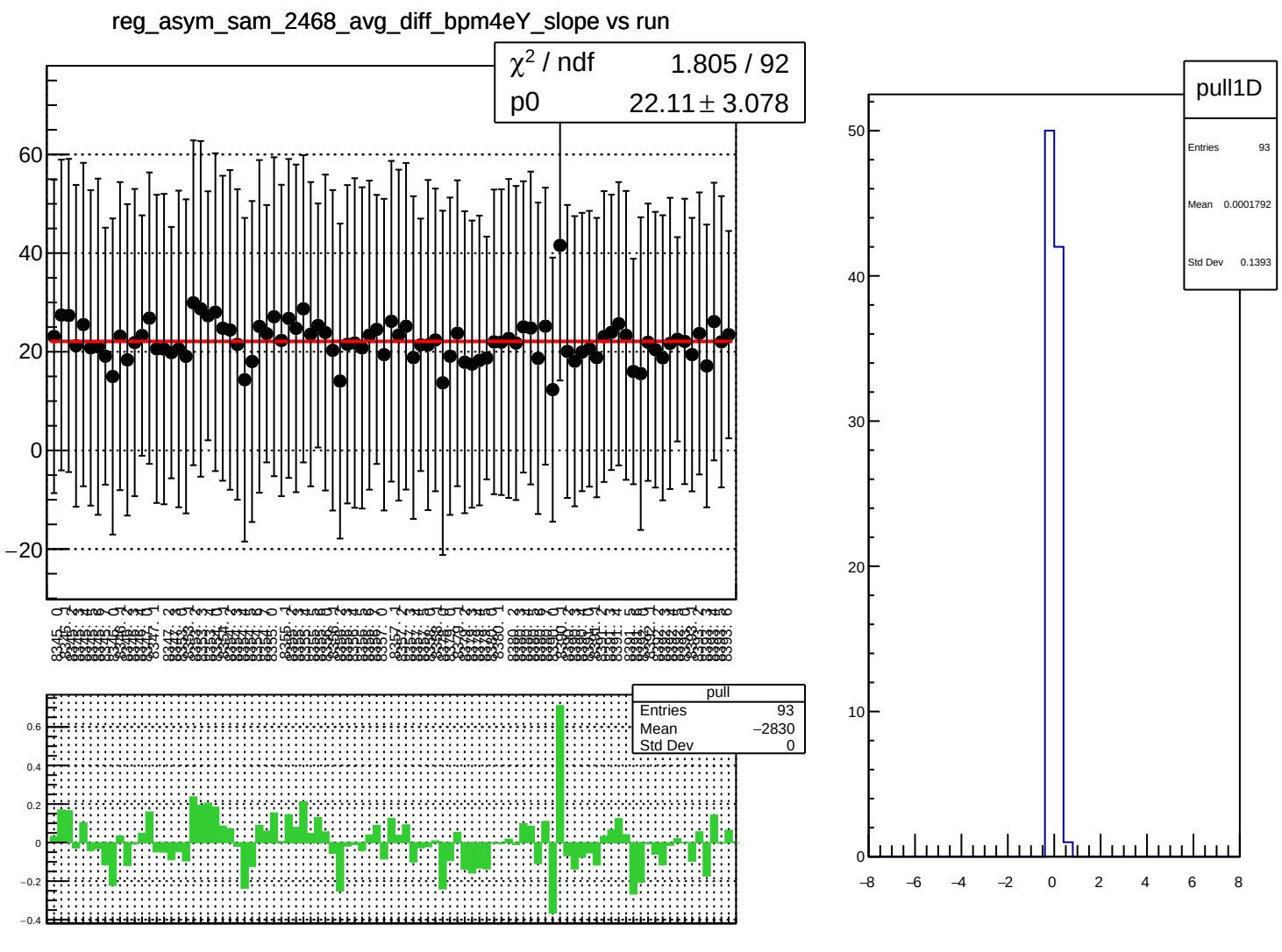

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 36.89 / 92
p0 0.7802 ± 0.08965
pull
Entries 93
Mean −111.9
Std Dev 0
pull1D
Entries 93
Mean 0.01836
Std Dev 0.6296

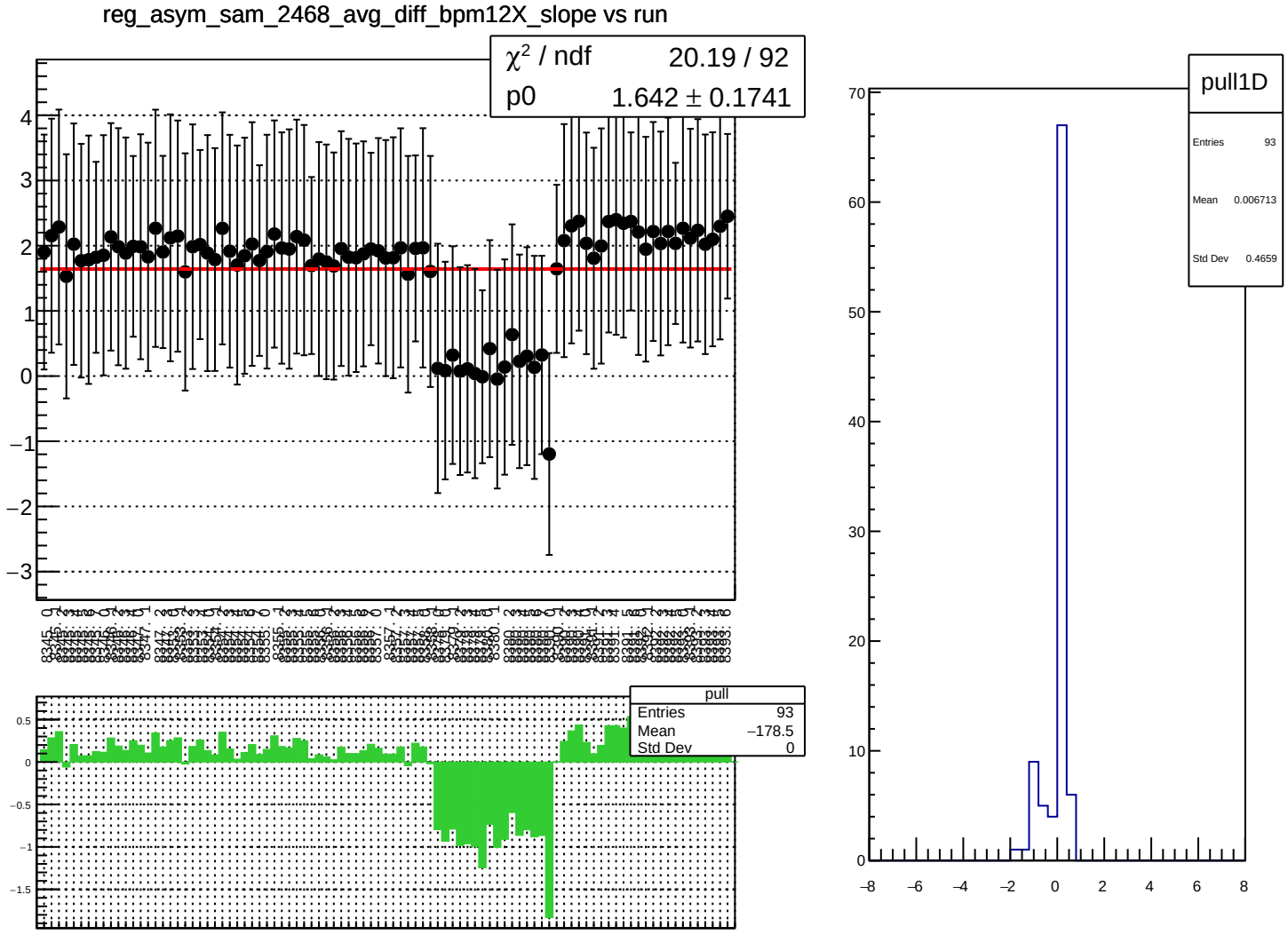

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 3.645 / 92
p0 −7.39 ± 1.668
pull
Entries 93
Mean 116.6
Std Dev 0

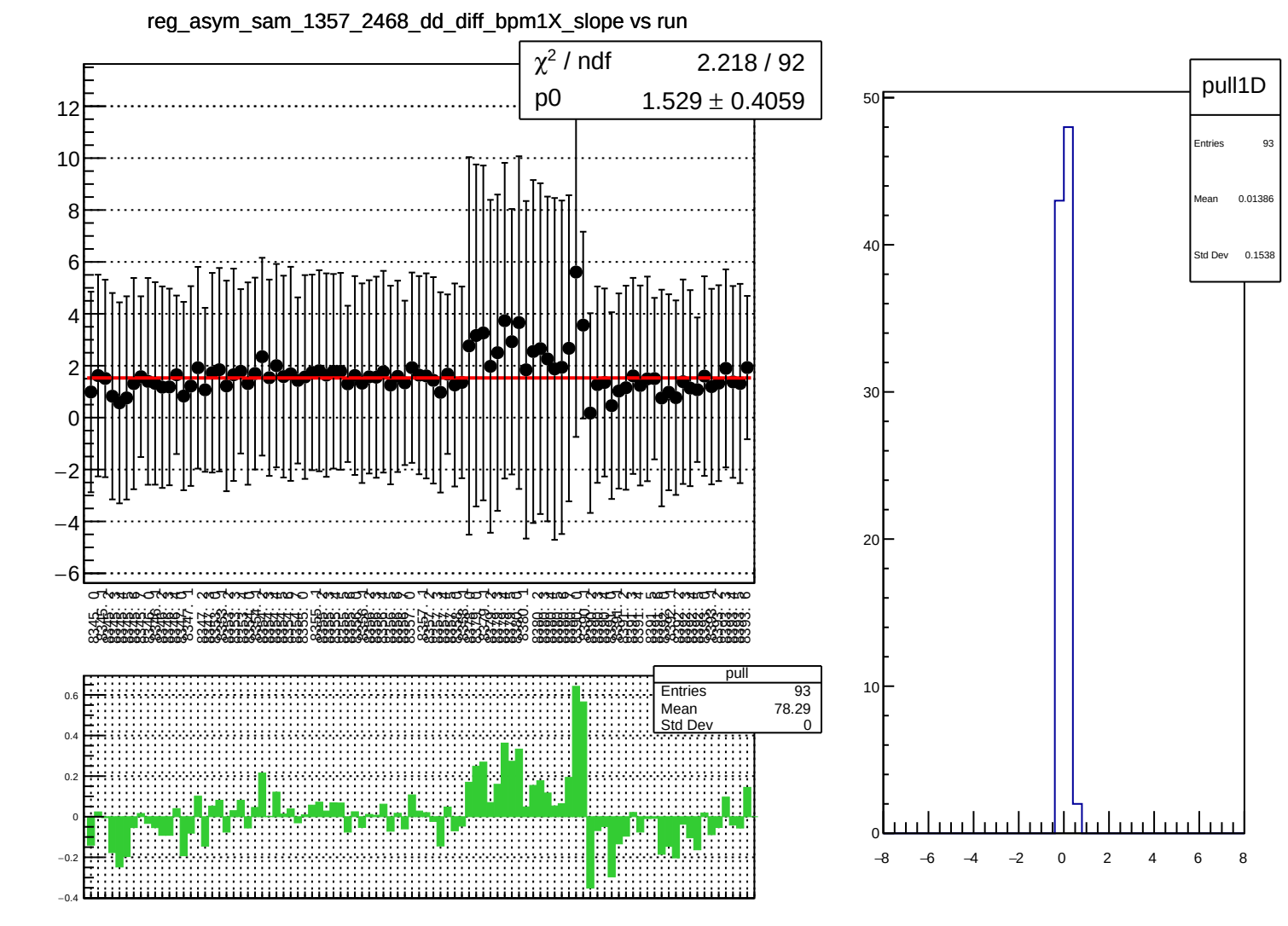

pull1D
Entries 93
Mean −0.02057
Std Dev 0.1969

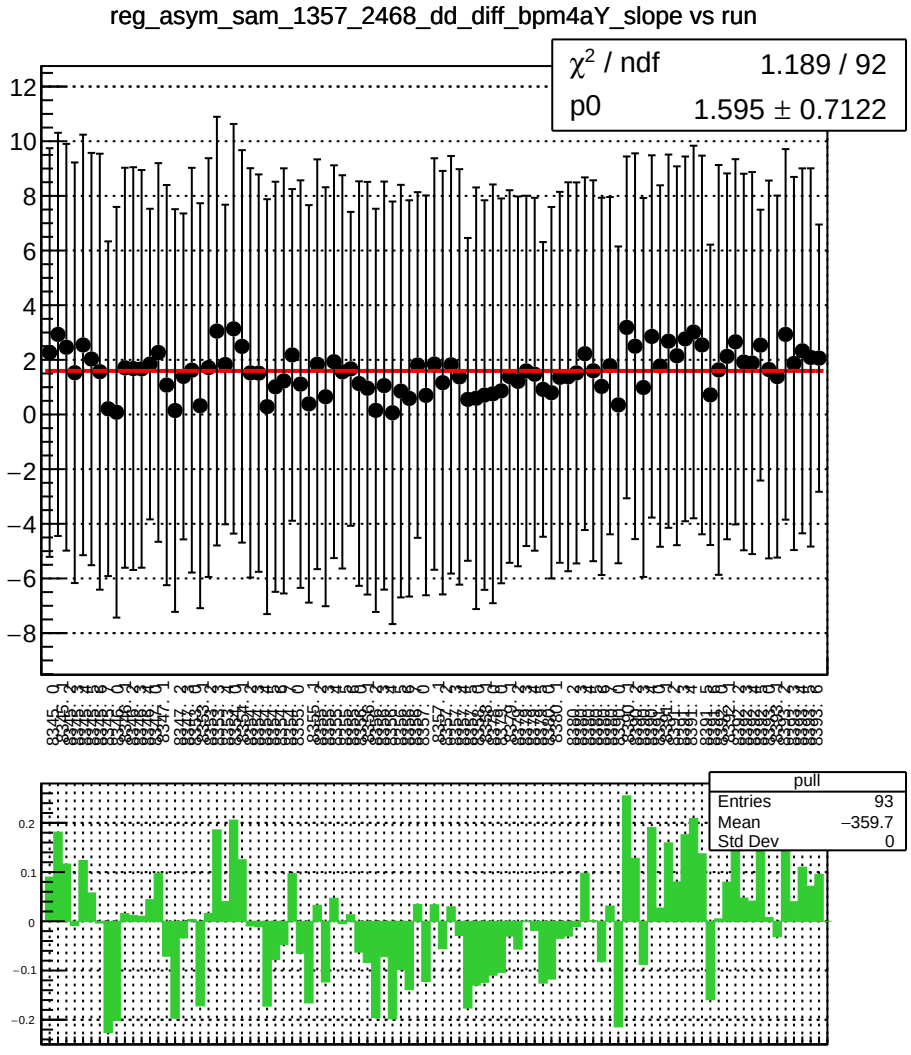

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.996 / 92
p0 11.95 ± 2.912
pull
Entries 93
Mean −145.8
Std Dev 0
pull1D
Entries 93
Mean 0.005154
Std Dev 0.1794

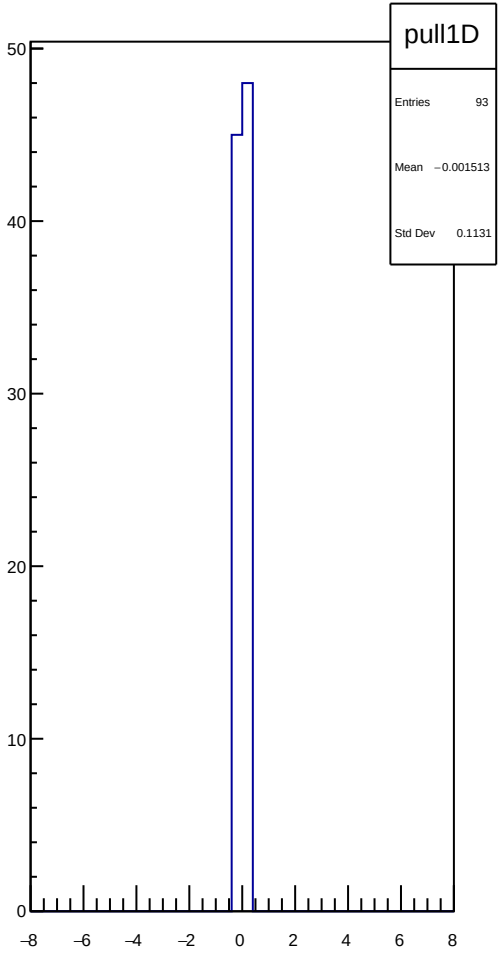

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.672 / 92
p0 −75.99 ± 1.836
pull
Entries 93
Mean 3040
Std Dev 0
pull1D
Entries 93
Mean 0.0003968
Std Dev 0.1341

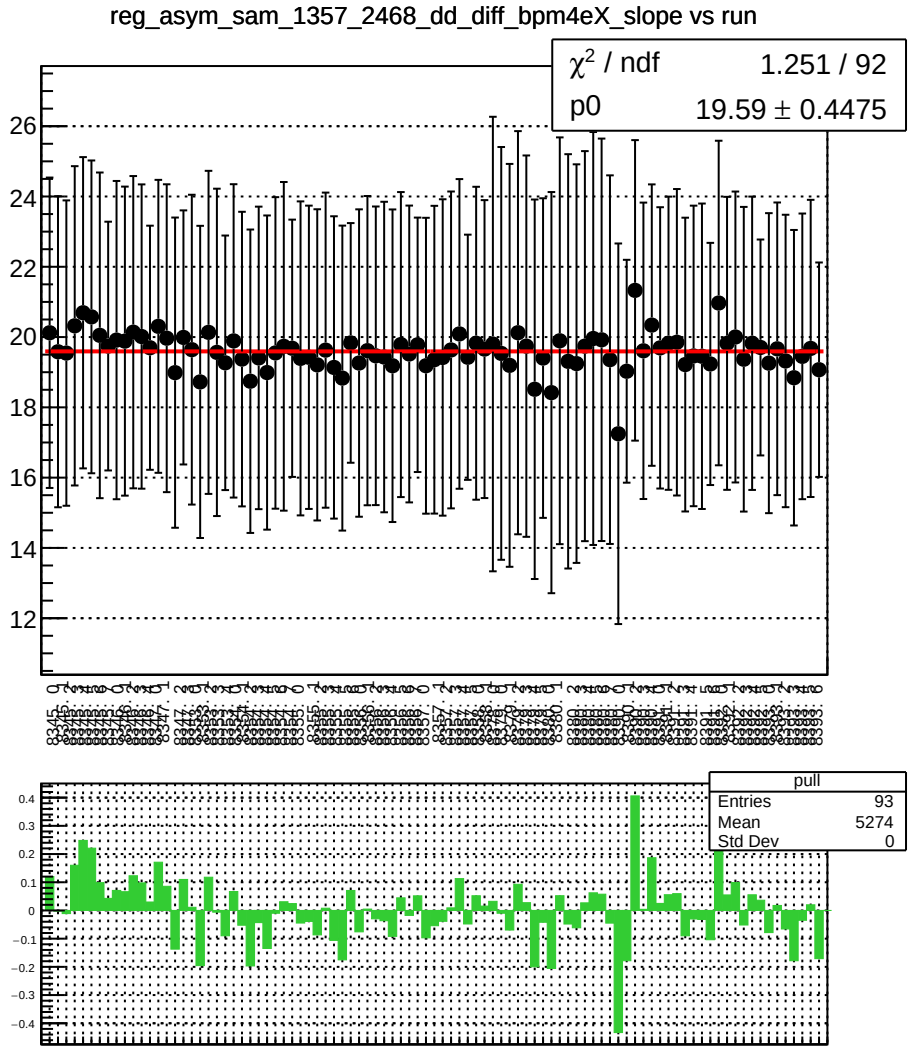

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.805 / 92
p0 22.11 ± 3.078
pull
Entries 93
Mean −2830
Std Dev 0
pull1D
Entries 93
Mean 0.0001792
Std Dev 0.1393

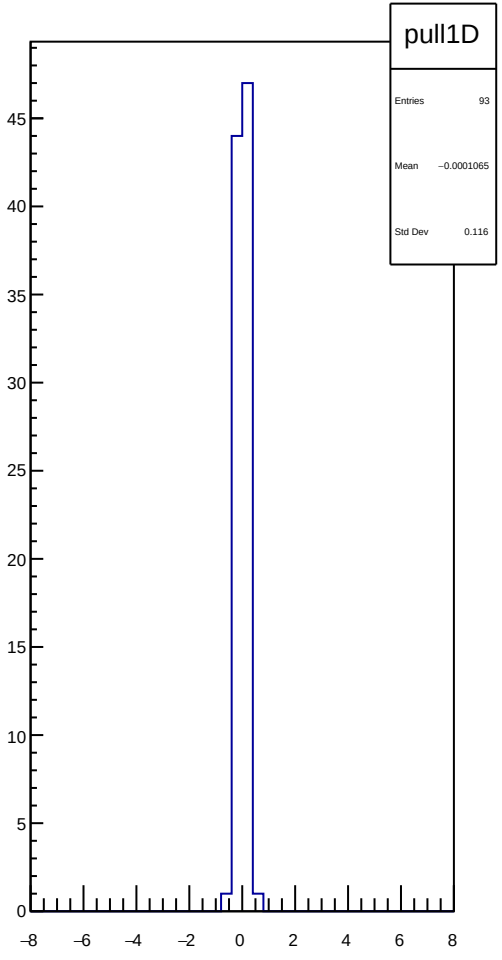

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 20.19 / 92
p0 1.642 ± 0.1741
pull
Entries 93
Mean −178.5
Std Dev 0
pull1D
Entries 93
Mean 0.006713
Std Dev 0.4659

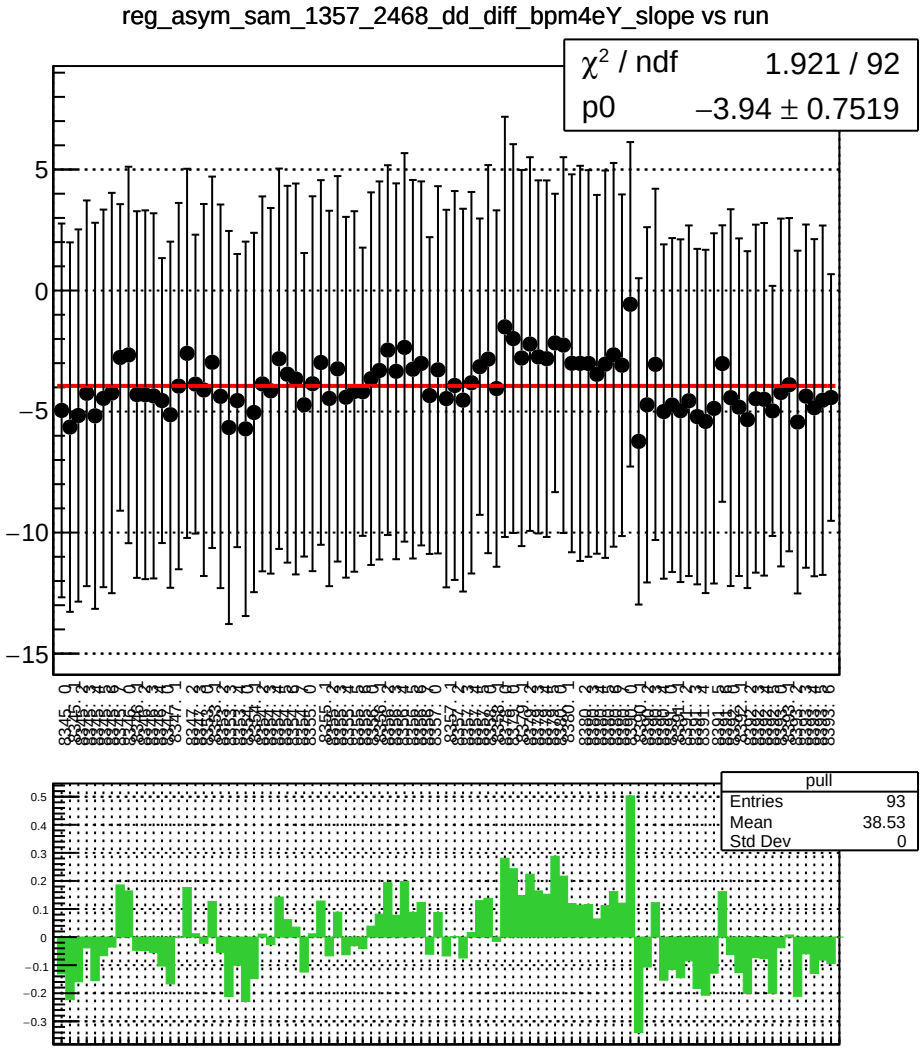

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 2.218 / 92
p0 1.529 ± 0.4059
pull
Entries 93
Mean 78.29
Std Dev 0
pull1D
Entries 93
Mean 0.01386
Std Dev 0.1538

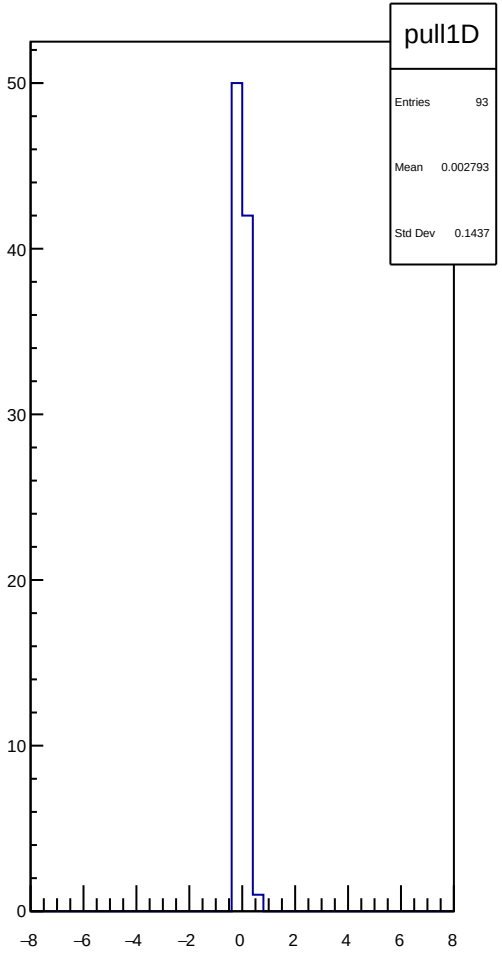

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.189 / 92
p0 1.595 ± 0.7122
pull
Entries 93
Mean −359.7
Std Dev 0

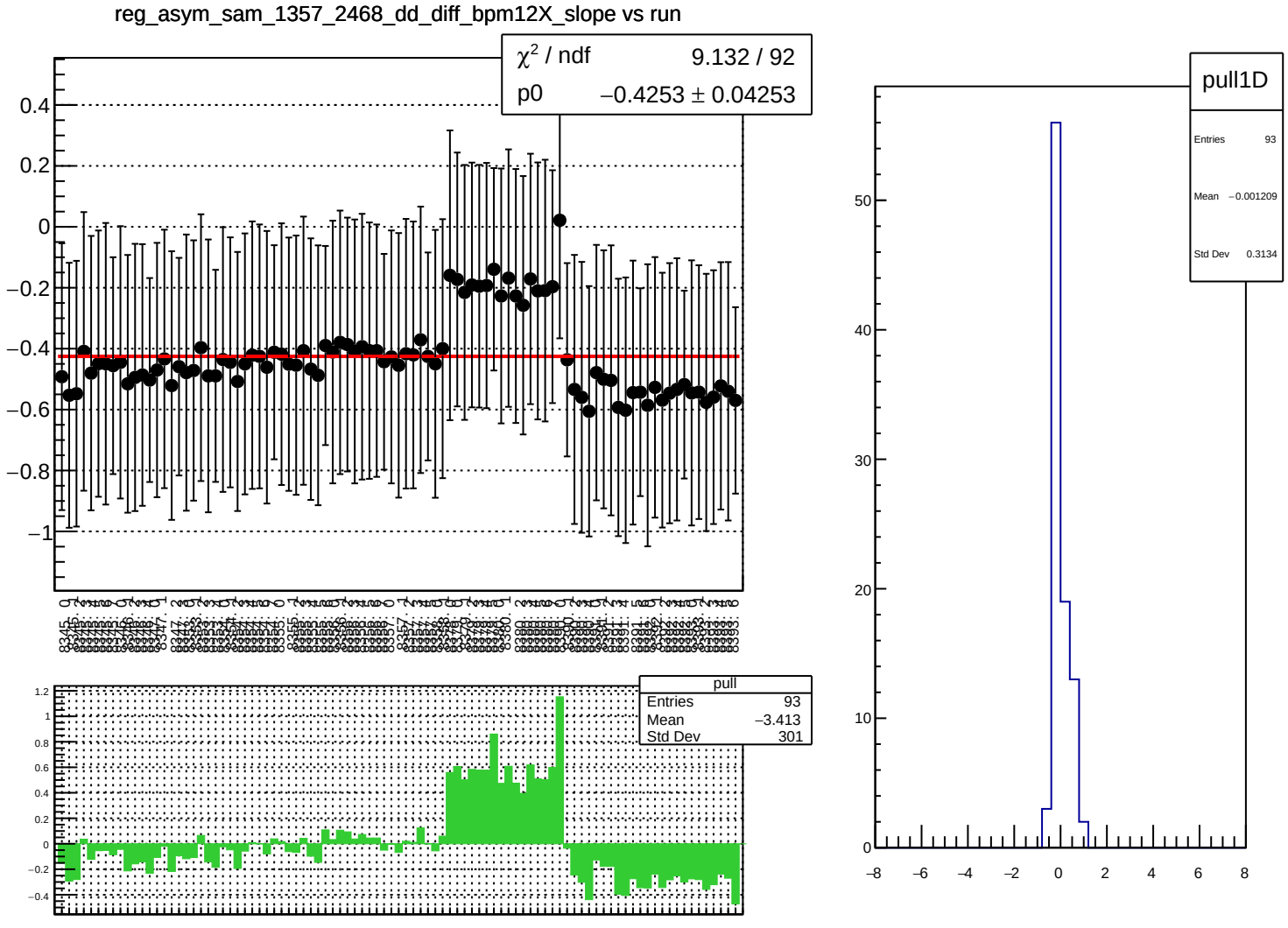

pull1D
Entries 93
Mean −0.001513
Std Dev 0.1131

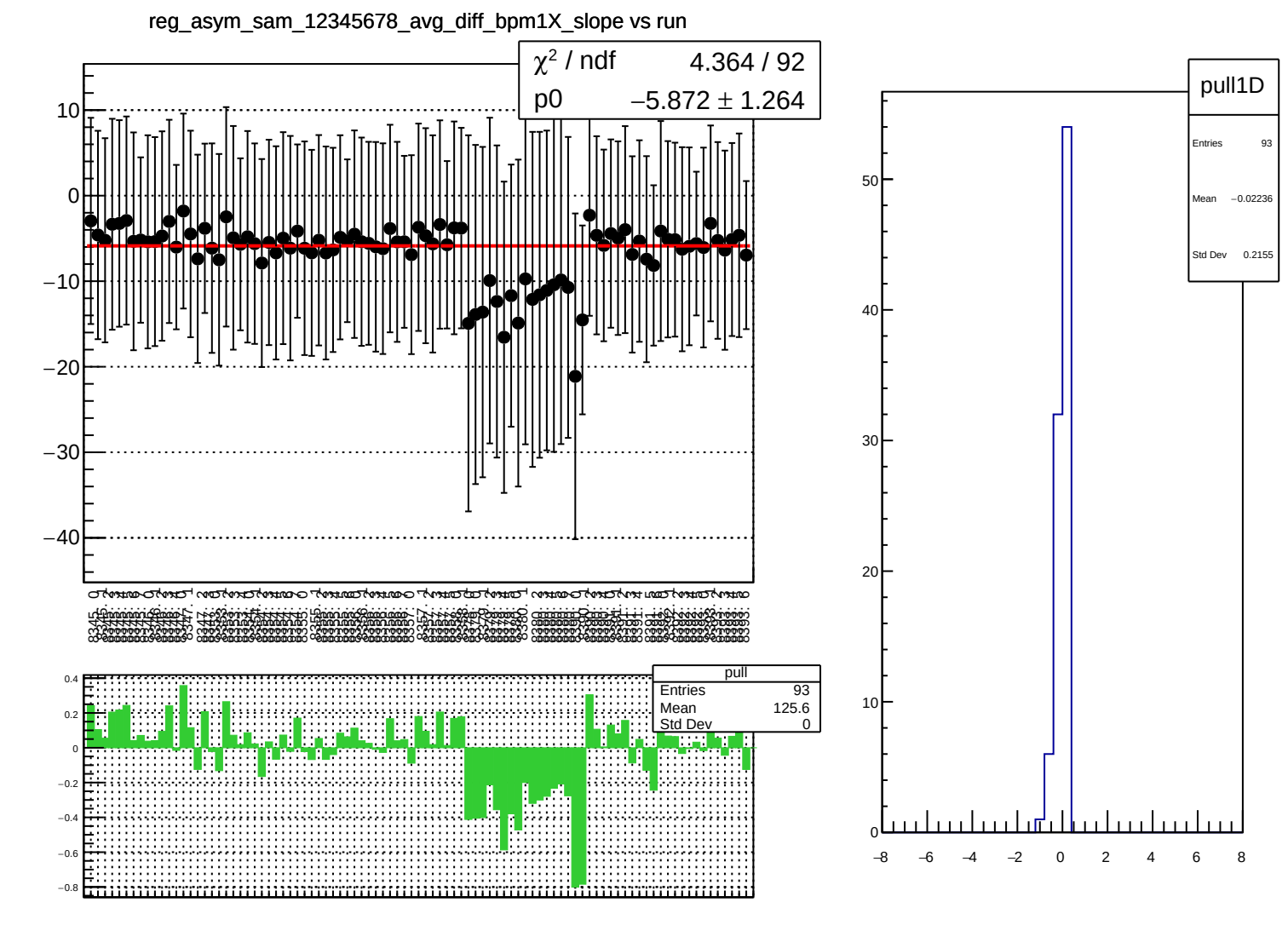

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.251 / 92
p0 19.59 ± 0.4475
pull
Entries 93
Mean 5274
Std Dev 0

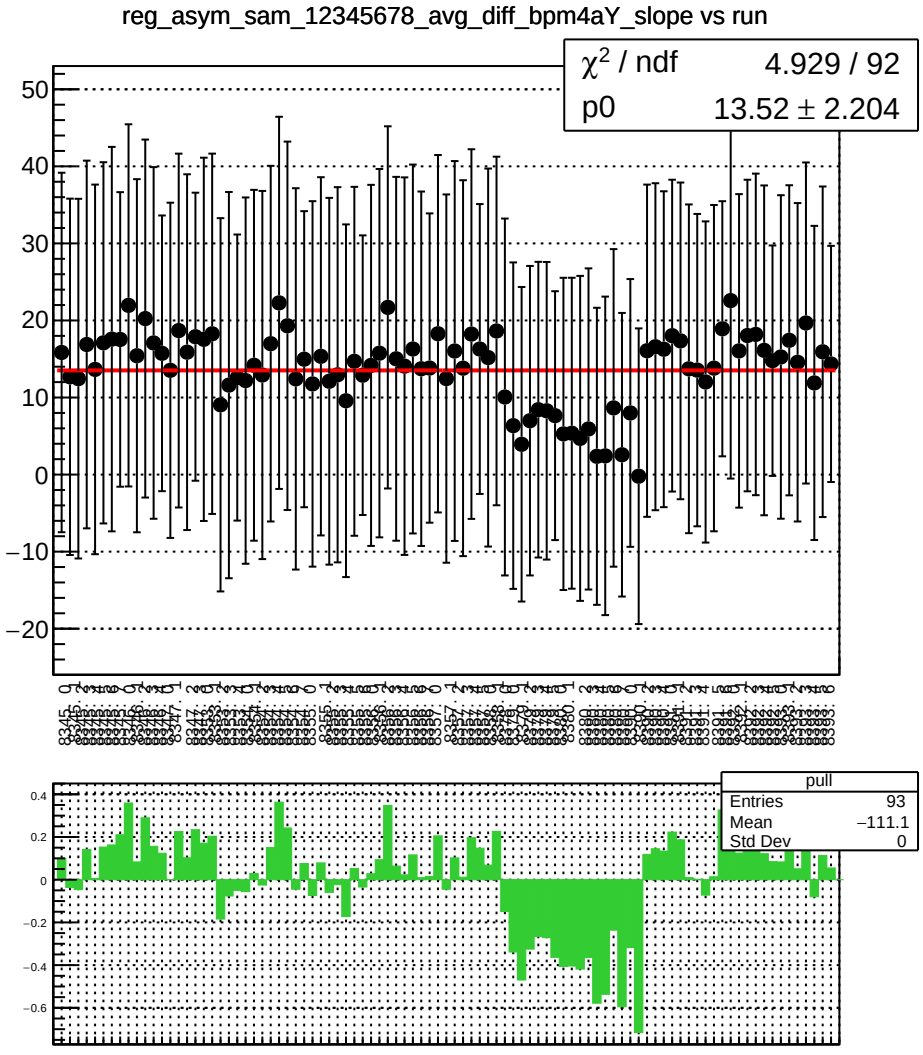

pull1D
Entries 93
Mean −0.0001065
Std Dev 0.116

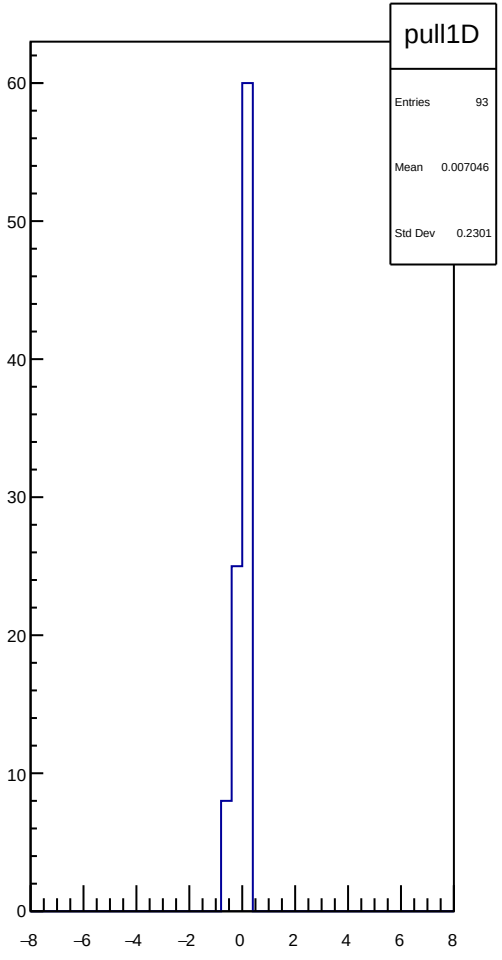

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.921 / 92
p0 −3.94 ± 0.7519
pull
Entries 93
Mean 38.53
Std Dev 0

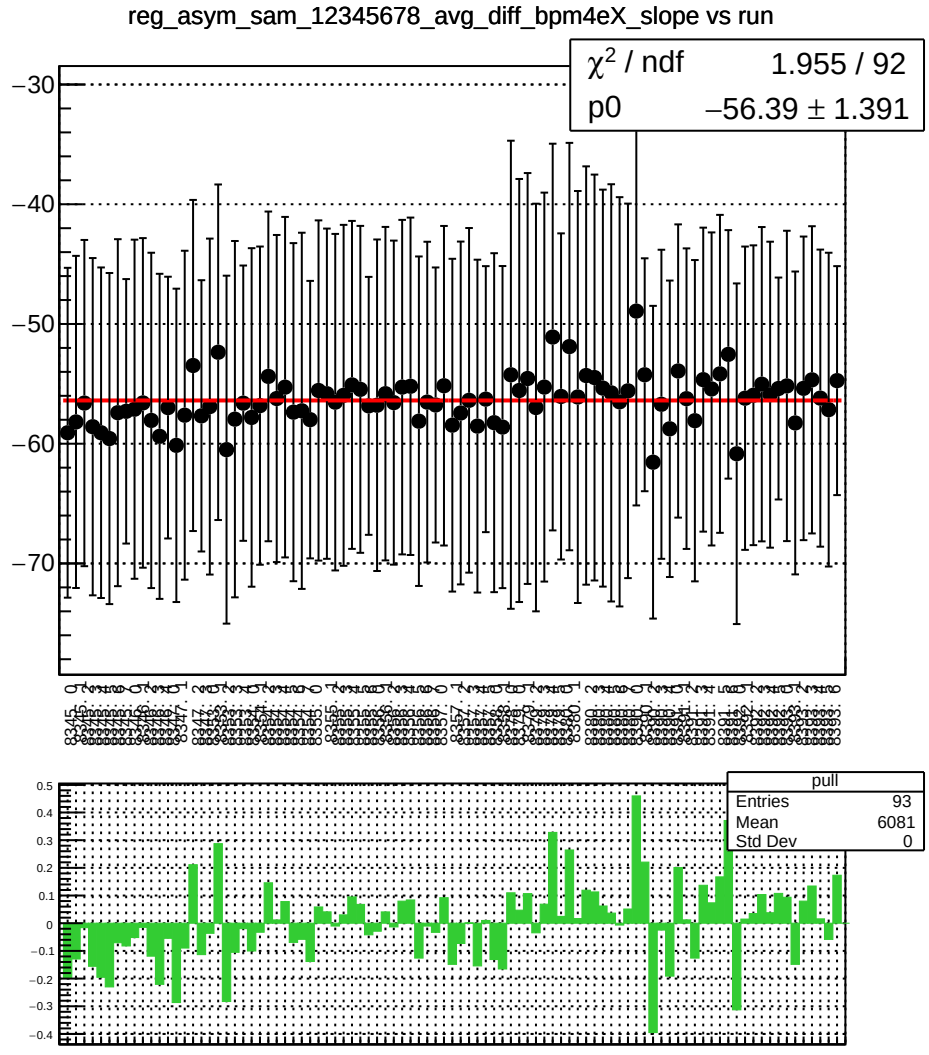

pull1D
Entries 93
Mean 0.002793
Std Dev 0.1437

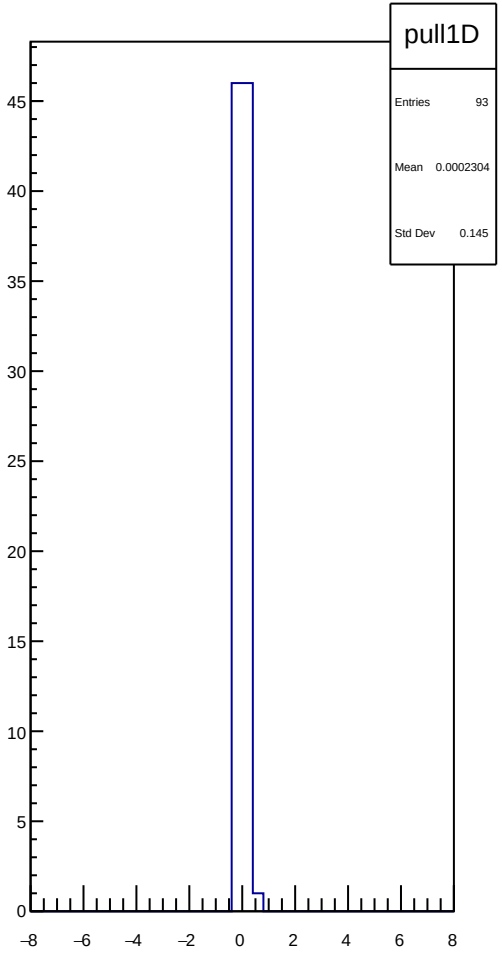

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 9.132 / 92
p0 −0.4253 ± 0.04253
pull
Entries 93
Mean −3.413
Std Dev 301
pull1D
Entries 93
Mean −0.001209
Std Dev 0.3134

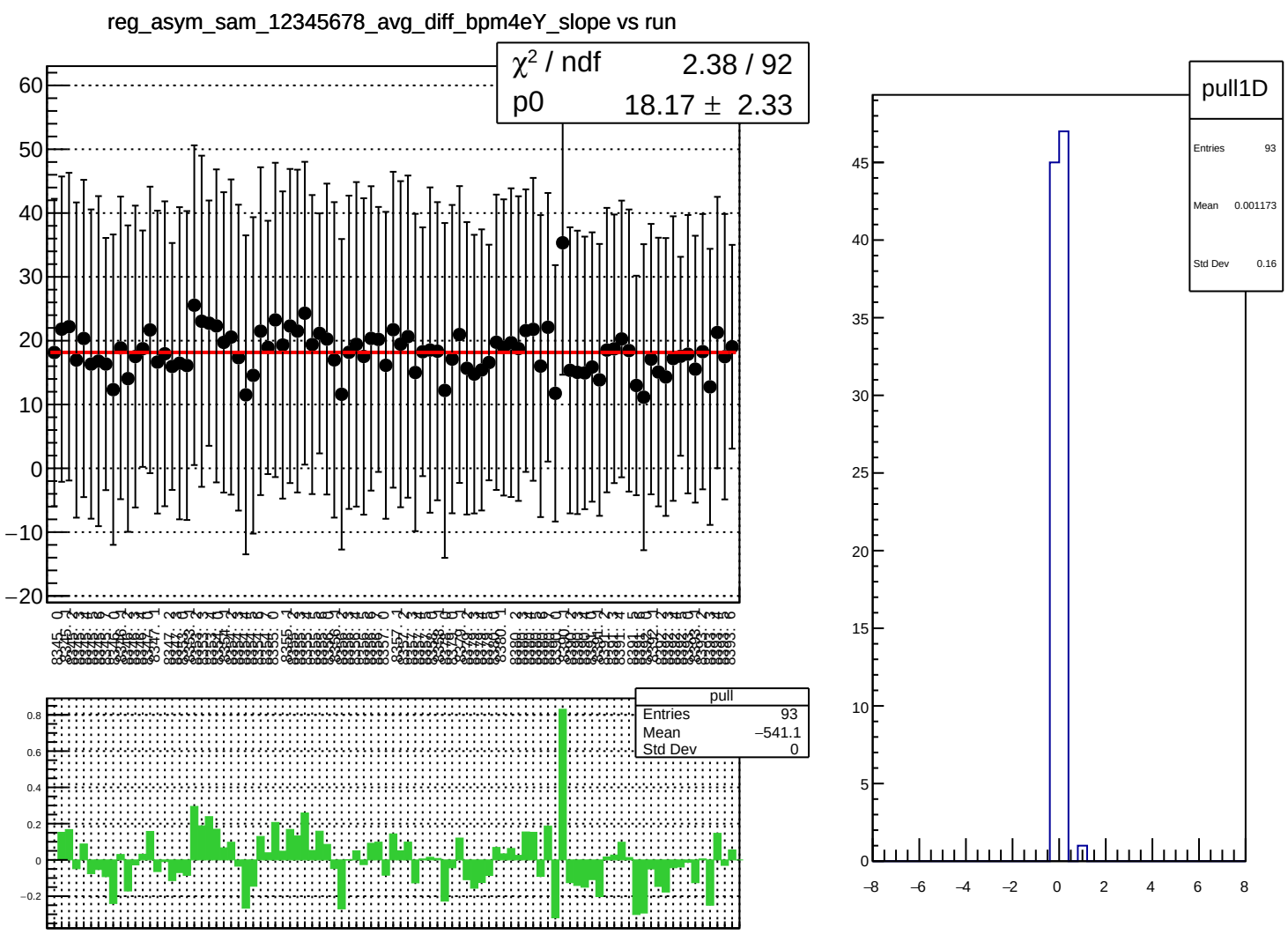

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 4.364 / 92
p0 −5.872 ± 1.264
pull
Entries 93
Mean 125.6
Std Dev 0
pull1D
Entries 93
Mean −0.02236
Std Dev 0.2155

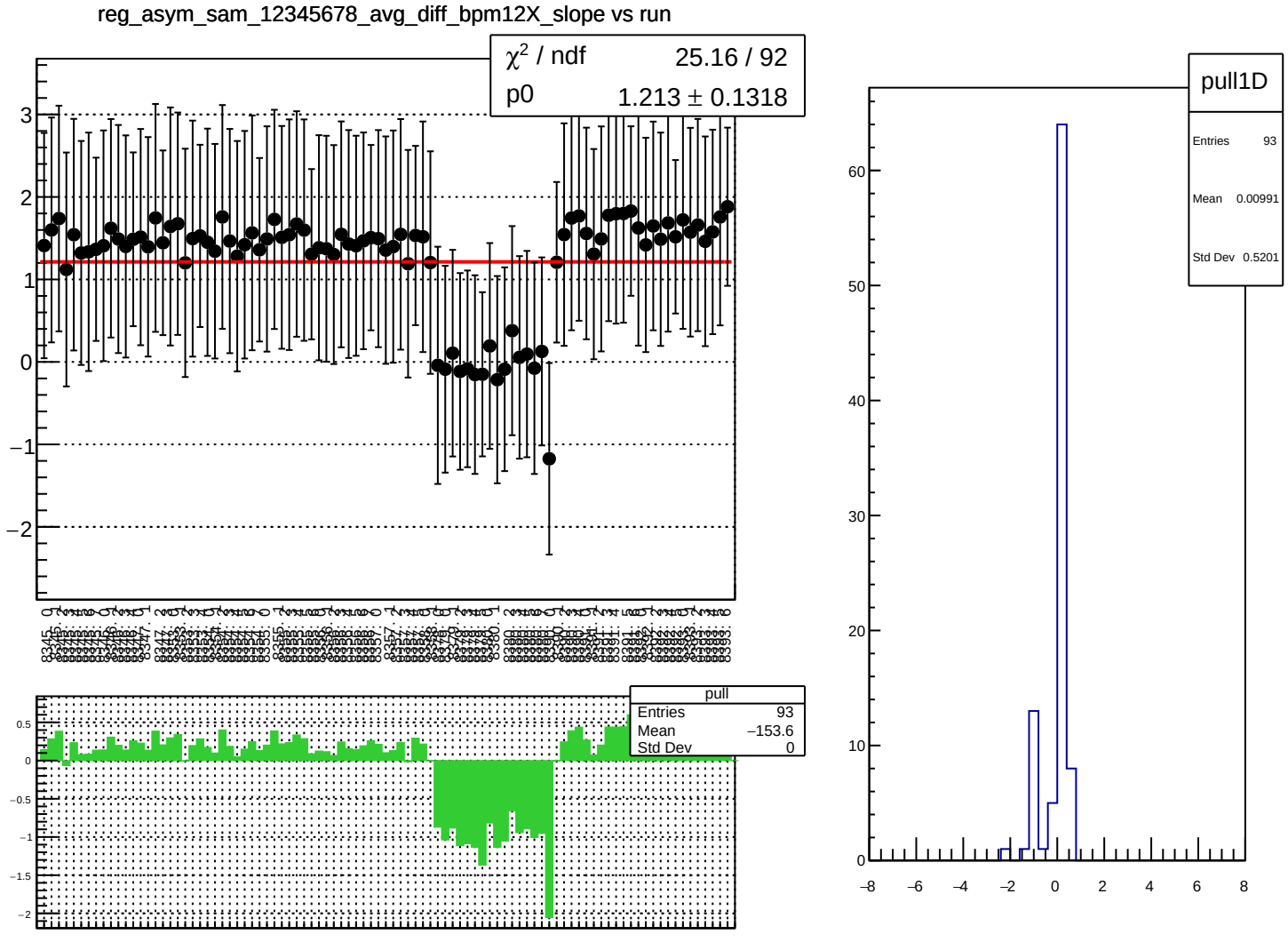

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.929 / 92
p0 13.52 ± 2.204
pull
Entries 93
Mean −111.1
Std Dev 0

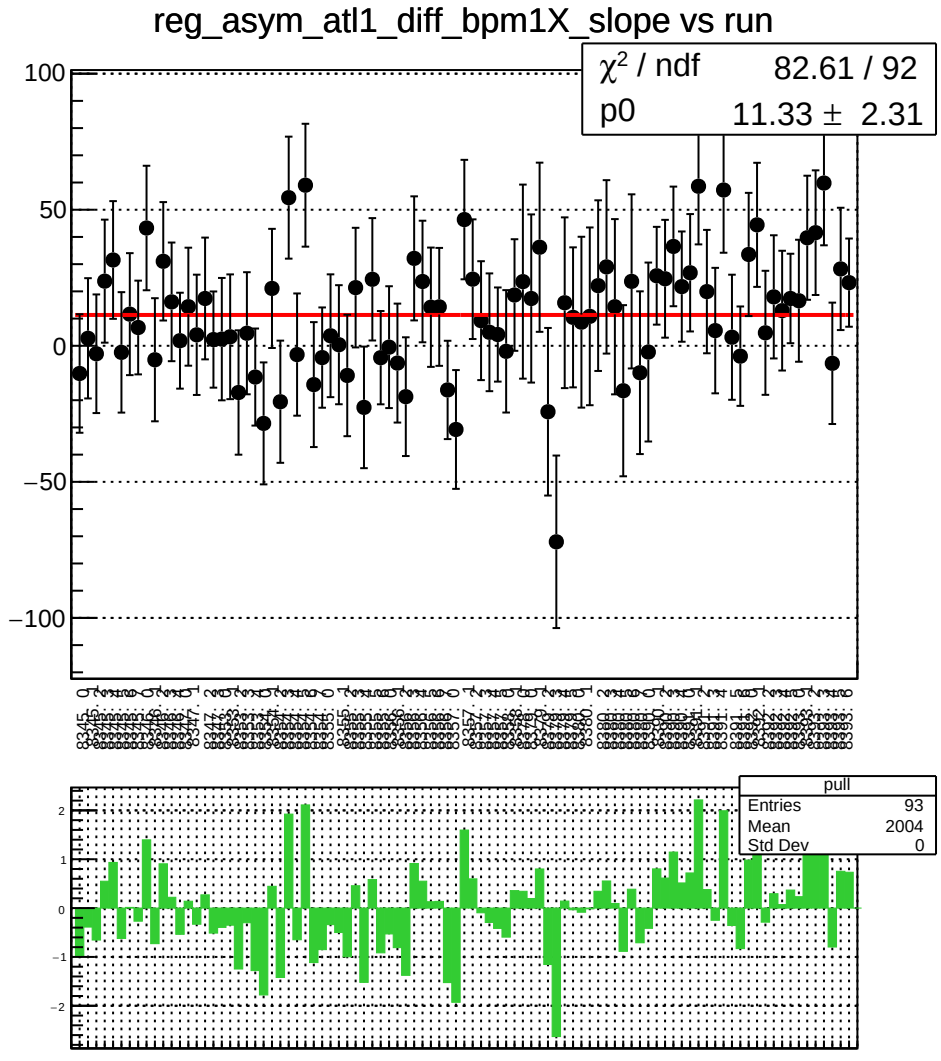

pull1D
Entries 93
Mean 0.007046
Std Dev 0.2301

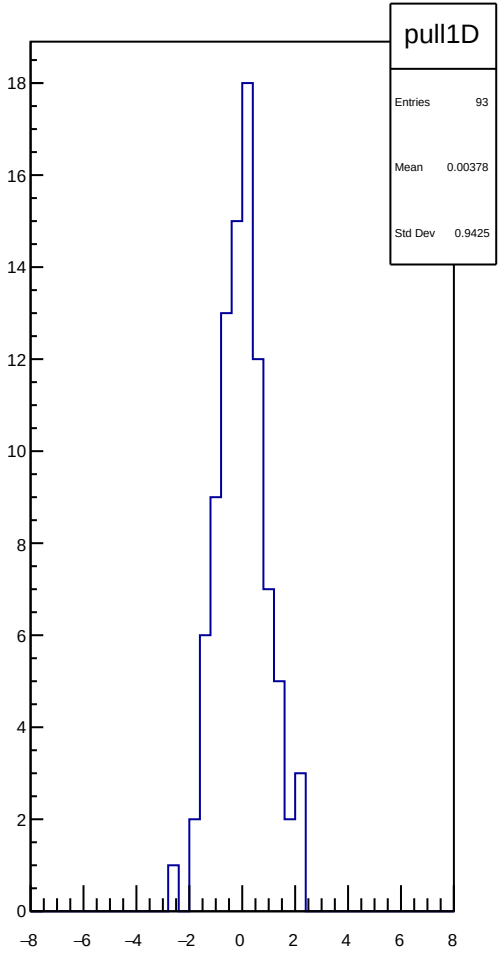

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 1.955 / 92
p0 −56.39 ± 1.391
pull
Entries 93
Mean 6081
Std Dev 0

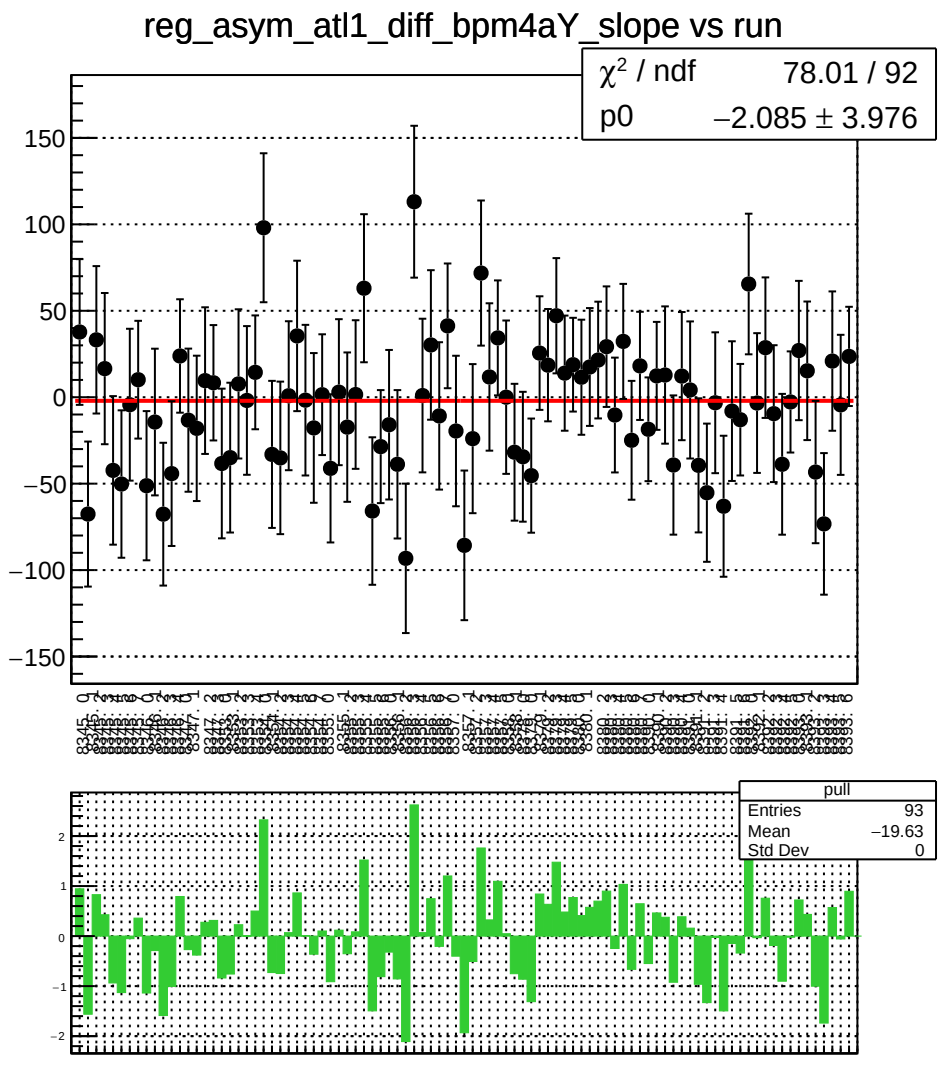

pull1D
Entries 93
Mean 0.0002304
Std Dev 0.145

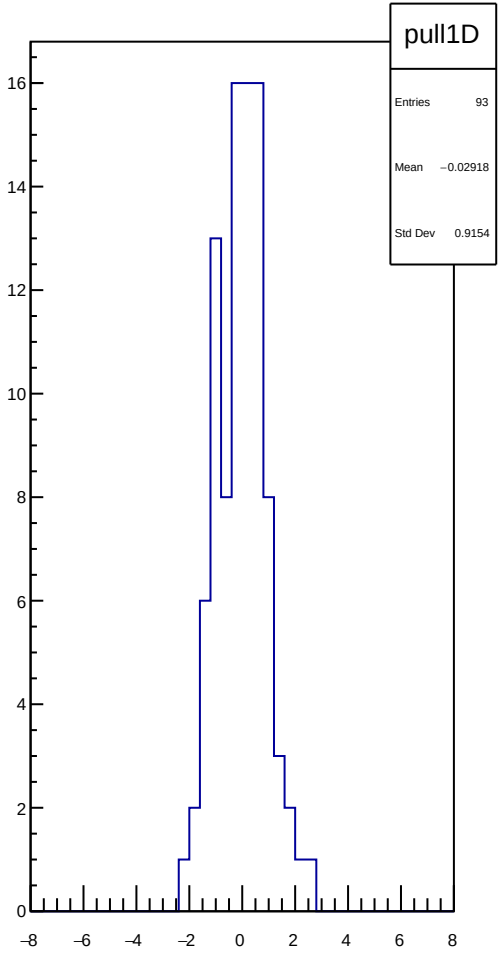

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.38 / 92
p0 18.17 ± 2.33
pull
Entries 93
Mean −541.1
Std Dev 0
pull1D
Entries 93
Mean 0.001173
Std Dev 0.16

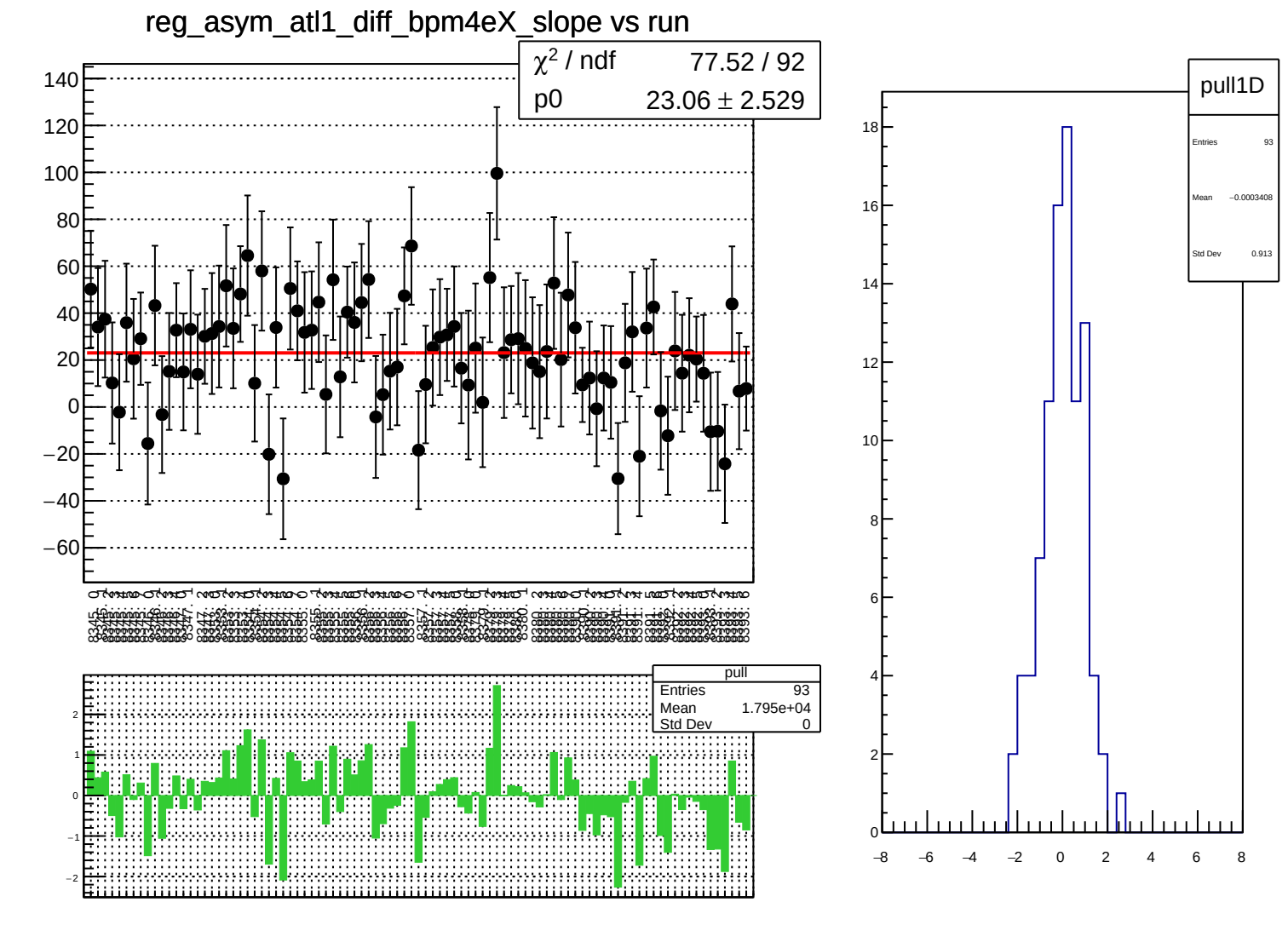

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 25.16 / 92
p0 1.213 ± 0.1318
pull
Entries 93
Mean −153.6
Std Dev 0
pull1D
Entries 93
Mean 0.00991
Std Dev 0.5201

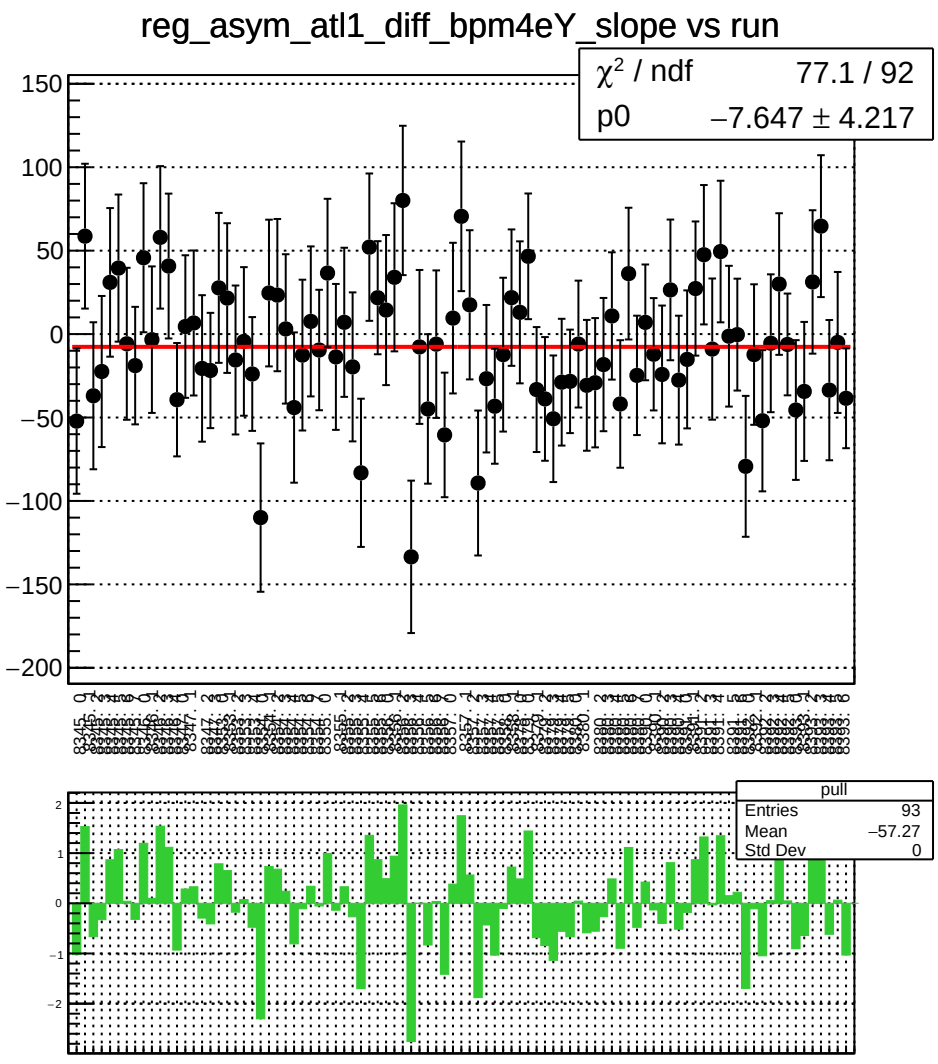

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 82.61 / 92
p0 11.33 ± 2.31
pull
Entries 93
Mean 2004
Std Dev 0

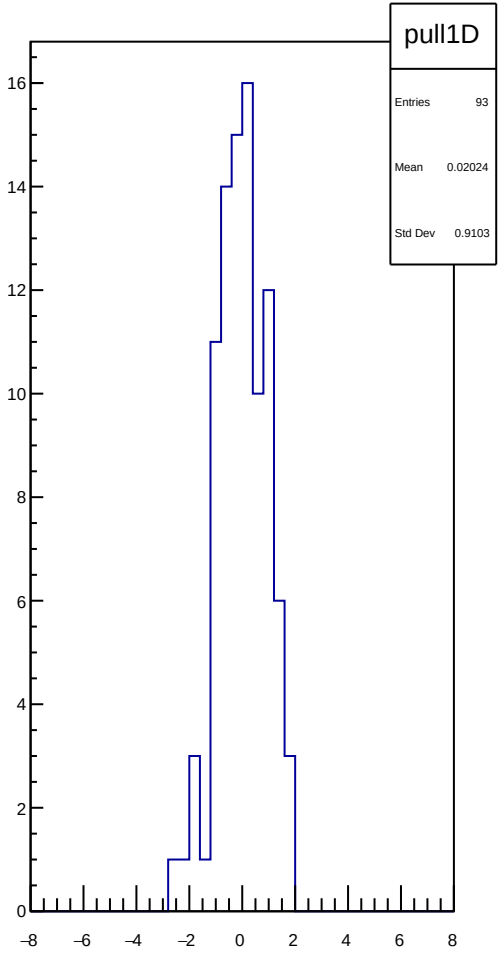

pull1D
Entries 93
Mean 0.00378
Std Dev 0.9425

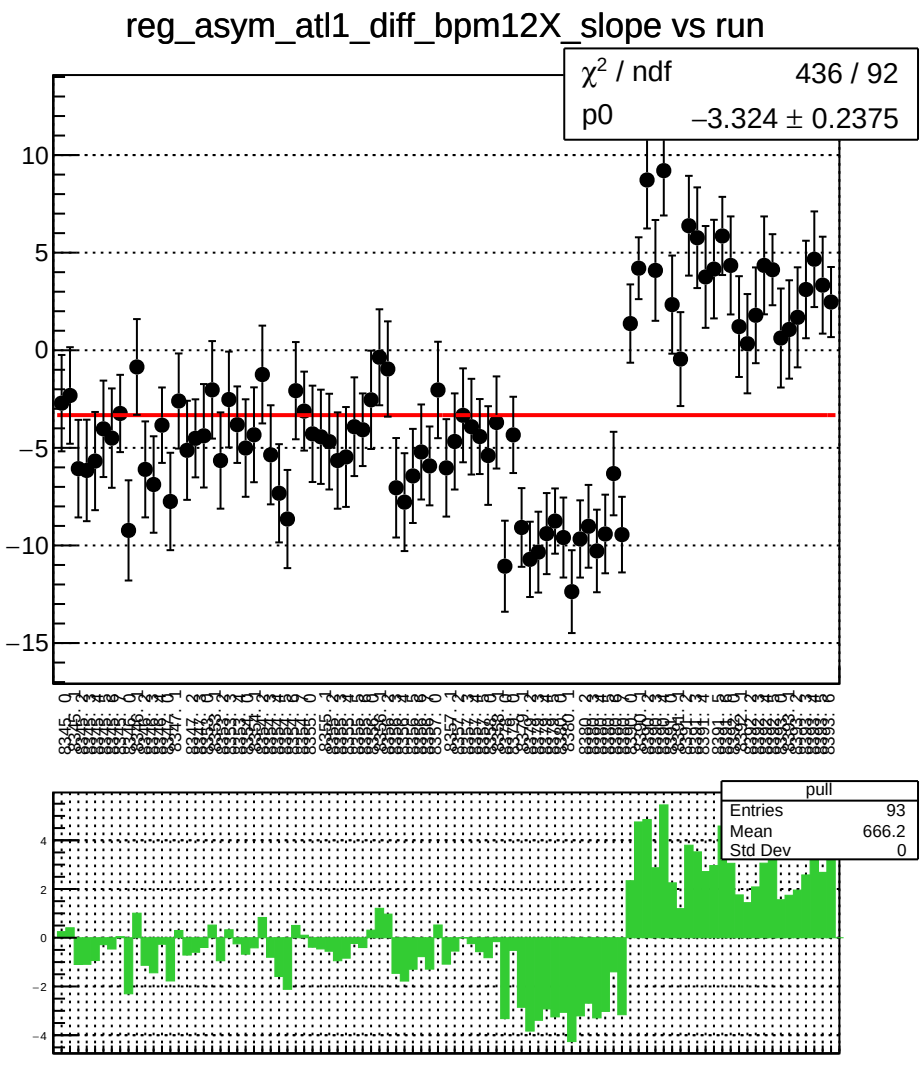

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 78.01 / 92
p0 −2.085 ± 3.976
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean −19.63
Std Dev 0
2
1
0
−1
−2

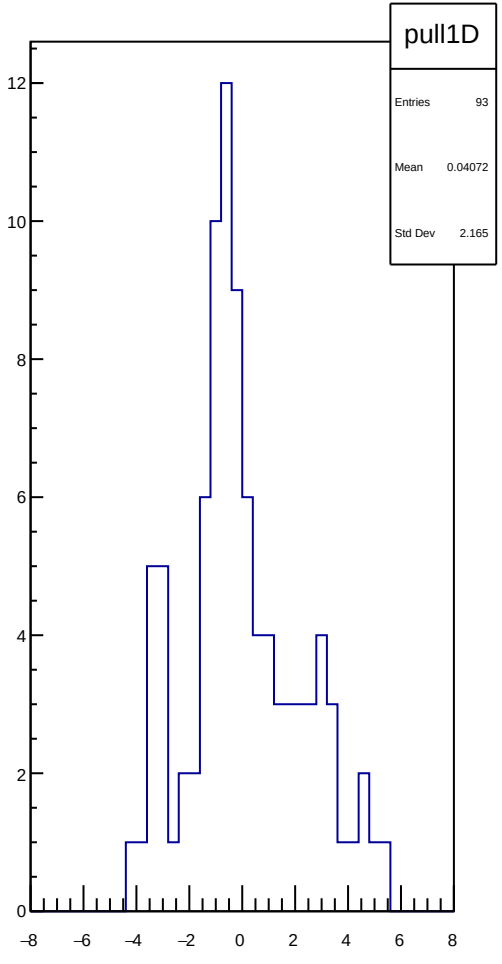

pull1D
Entries 93
Mean −0.02918
Std Dev 0.9154
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

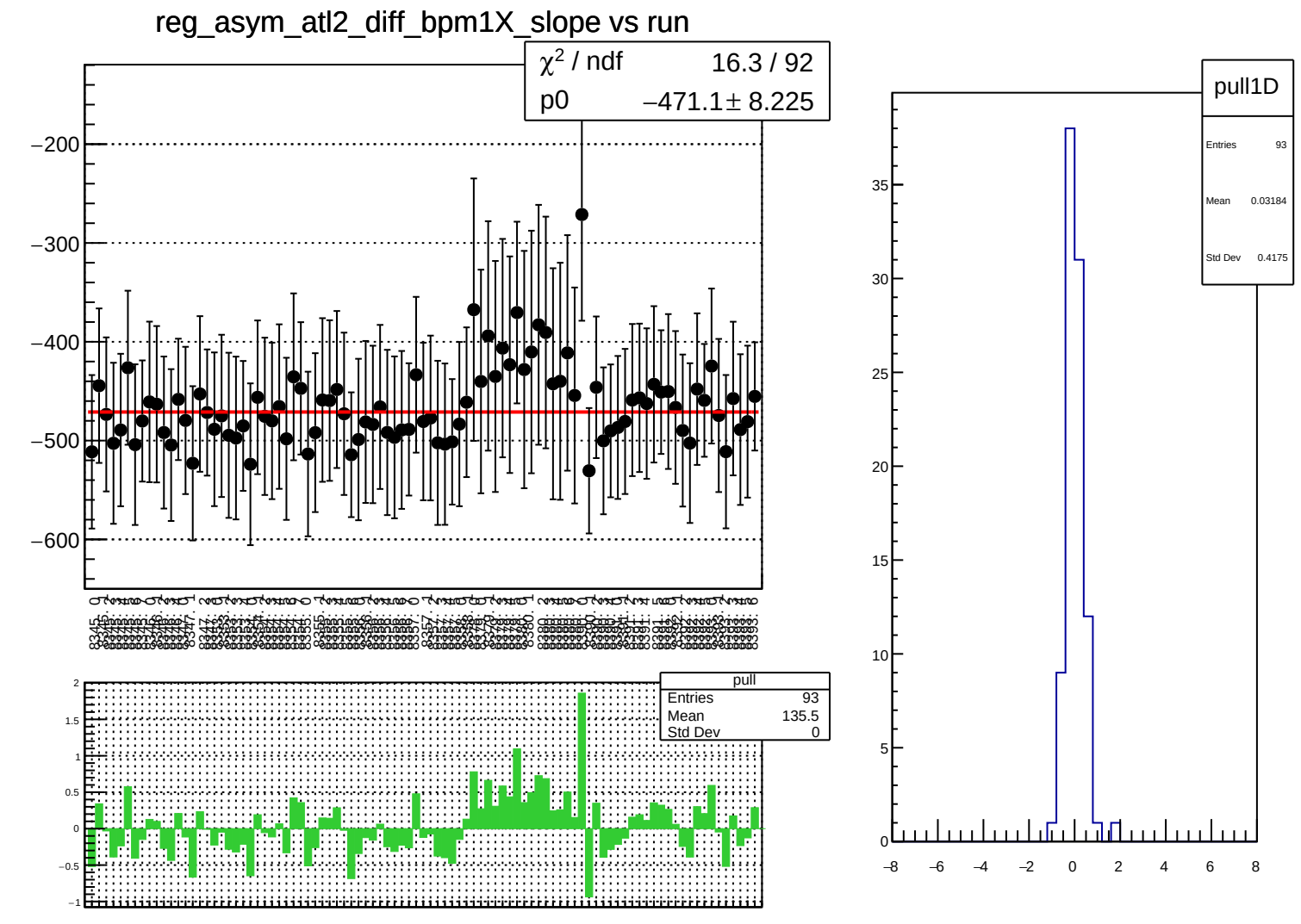

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 77.52 / 92
p0 23.06 ± 2.529
pull
Entries 93
Mean 1.795e+04
Std Dev 0
pull1D
Entries 93
Mean −0.0003408
Std Dev 0.913

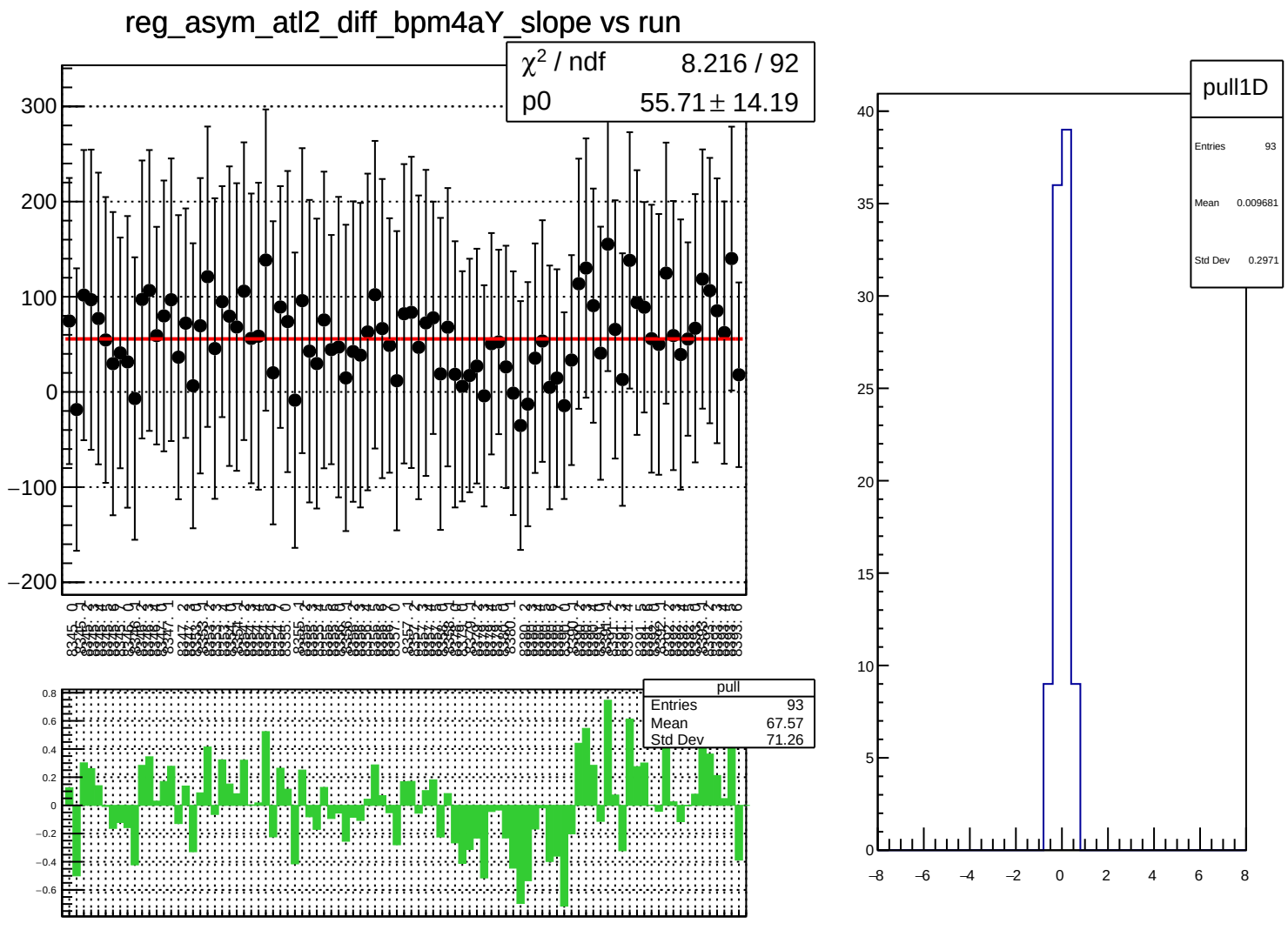

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 77.1 / 92
p0 −7.647 ± 4.217
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean −57.27
Std Dev 0
2
1
0
−1
−2

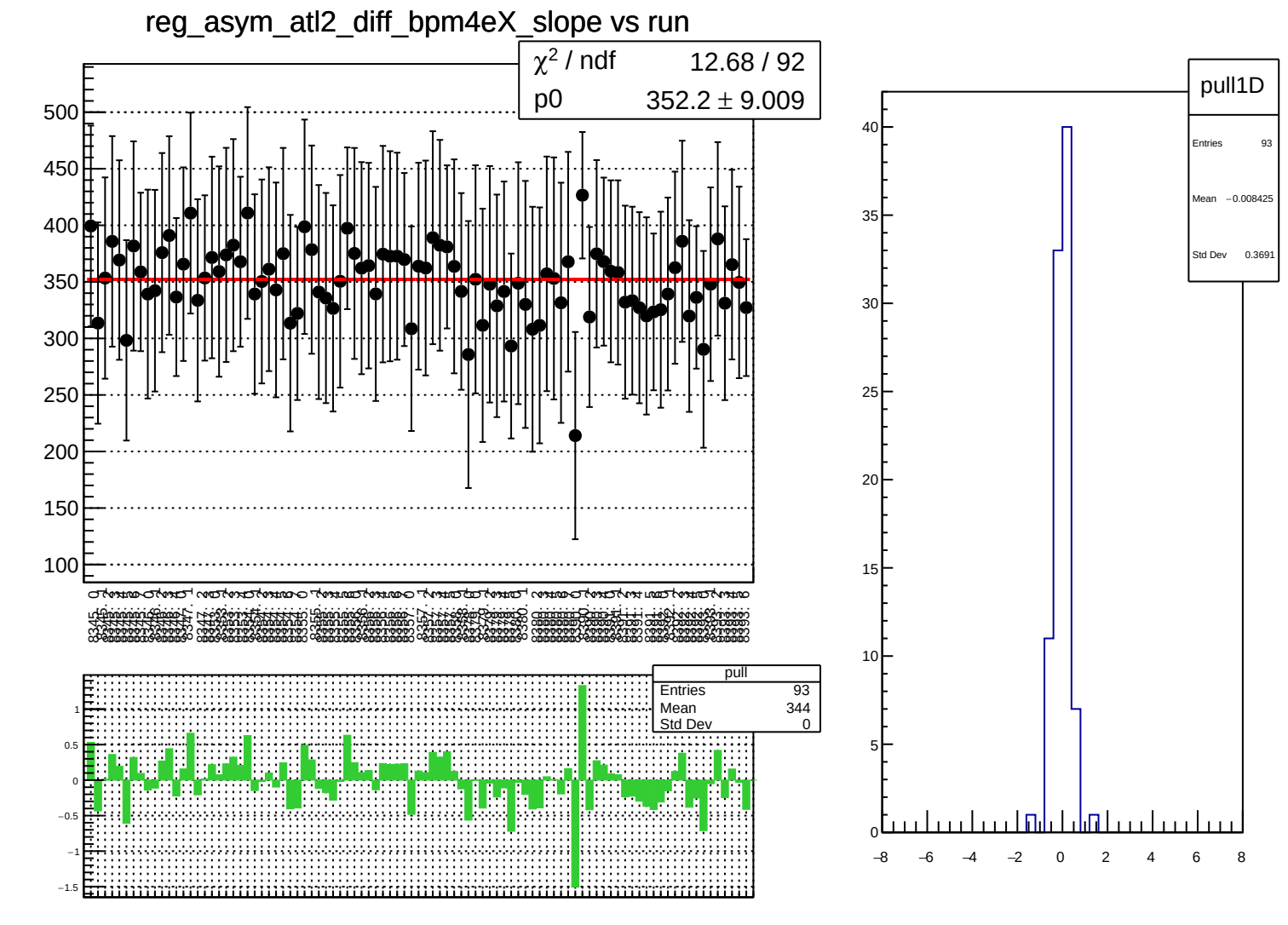

pull1D
Entries 93
Mean 0.02024
Std Dev 0.9103
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

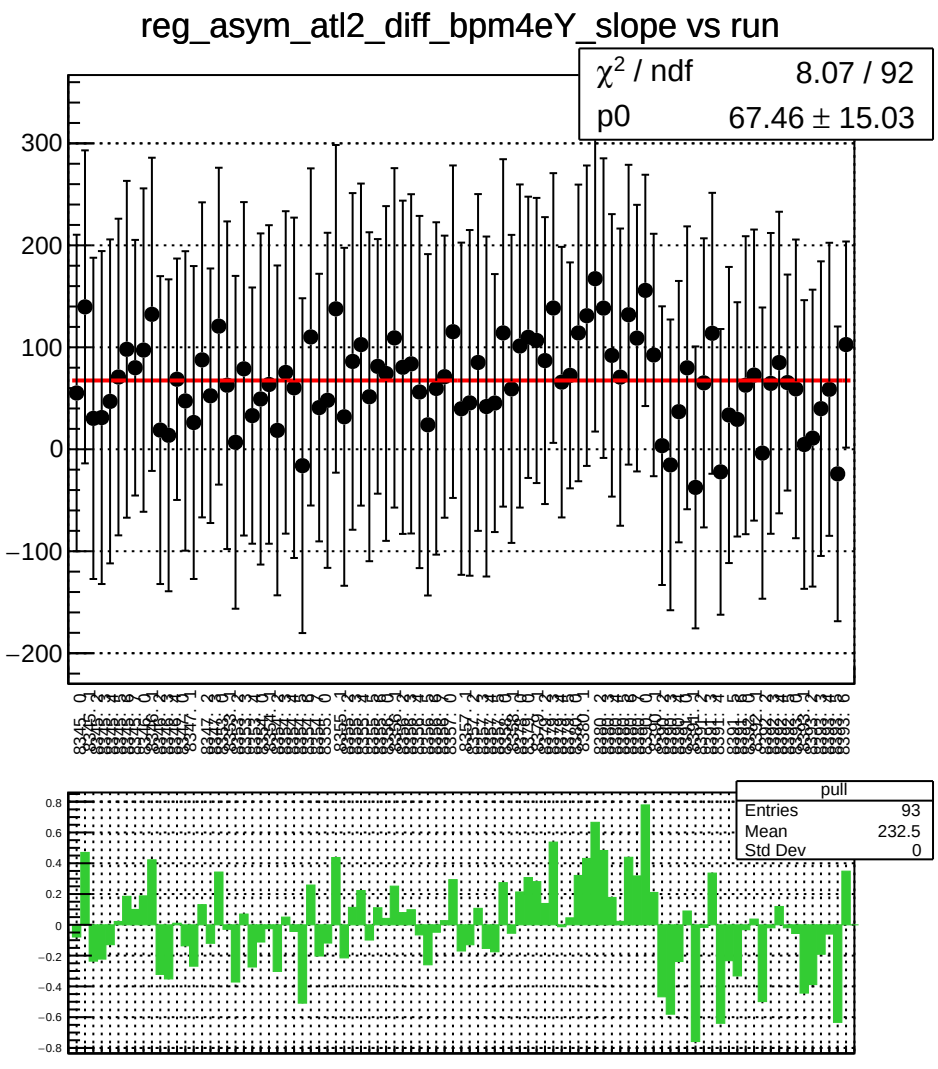

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 436 / 92
p0 −3.324 ± 0.2375
pull
Entries 93
Mean 666.2
Std Dev 0

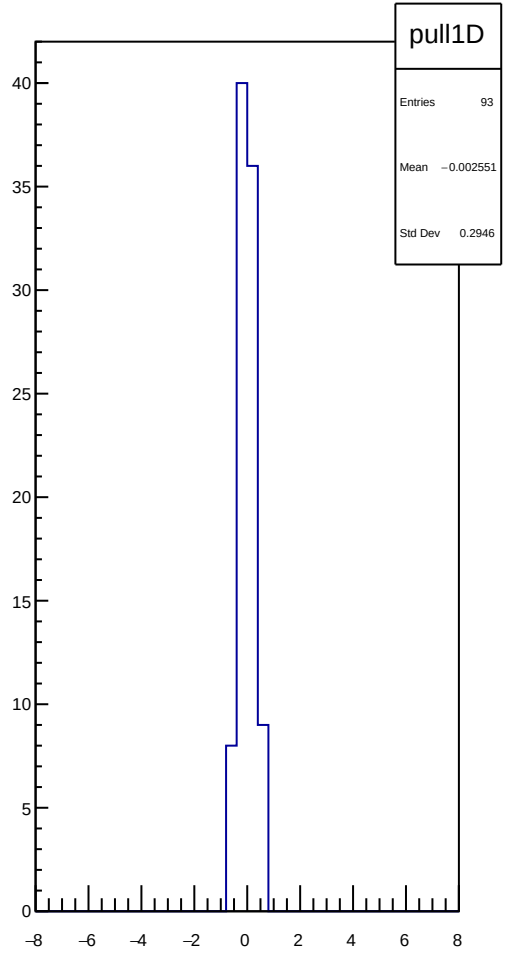

pull1D
Entries 93
Mean 0.04072
Std Dev 2.165

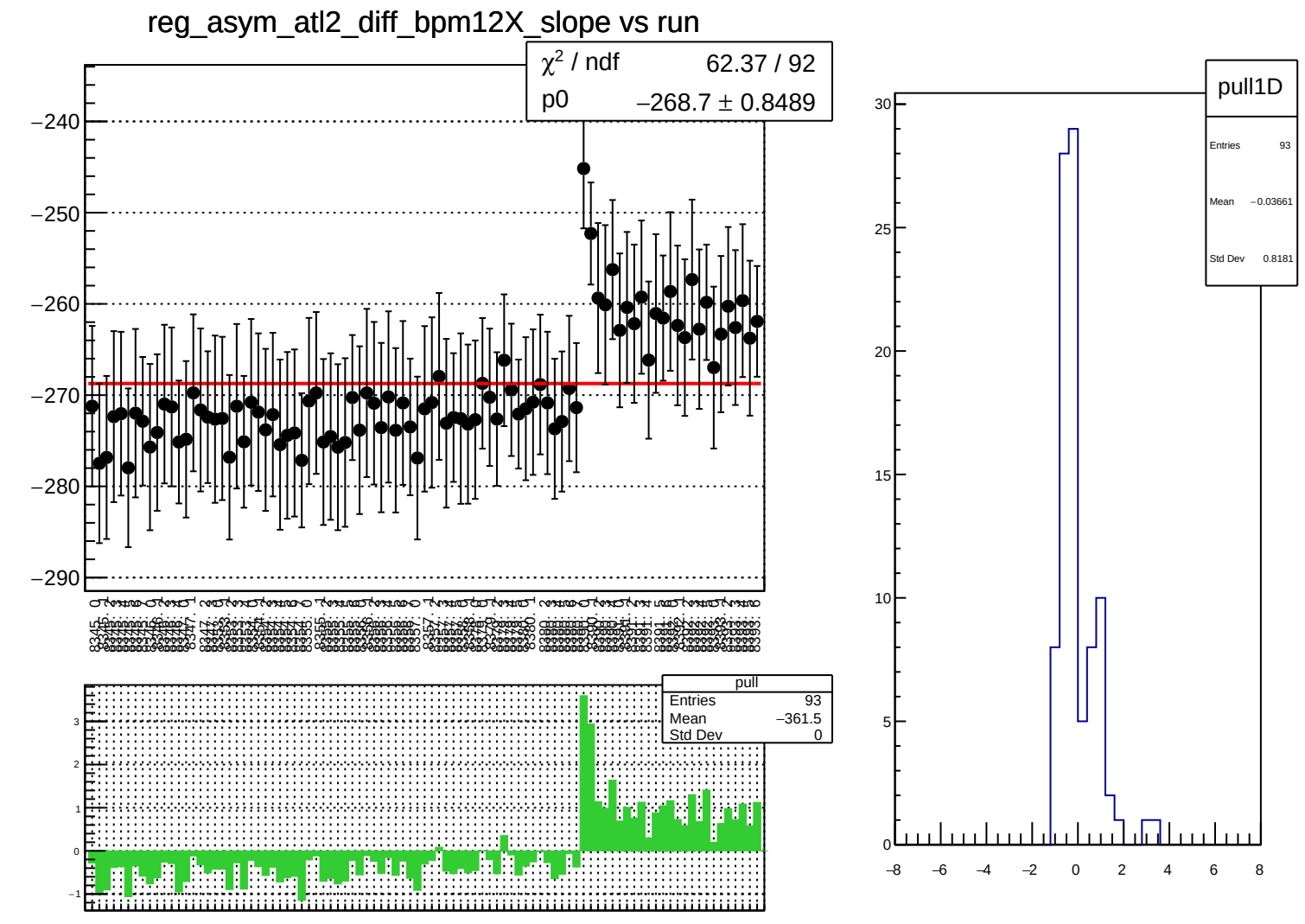

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 16.3 / 92
p0 −471.1 ± 8.225
−200
−300
−400
−500
−600
pull
Entries 93
Mean 135.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 93
Mean 0.03184
Std Dev 0.4175
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

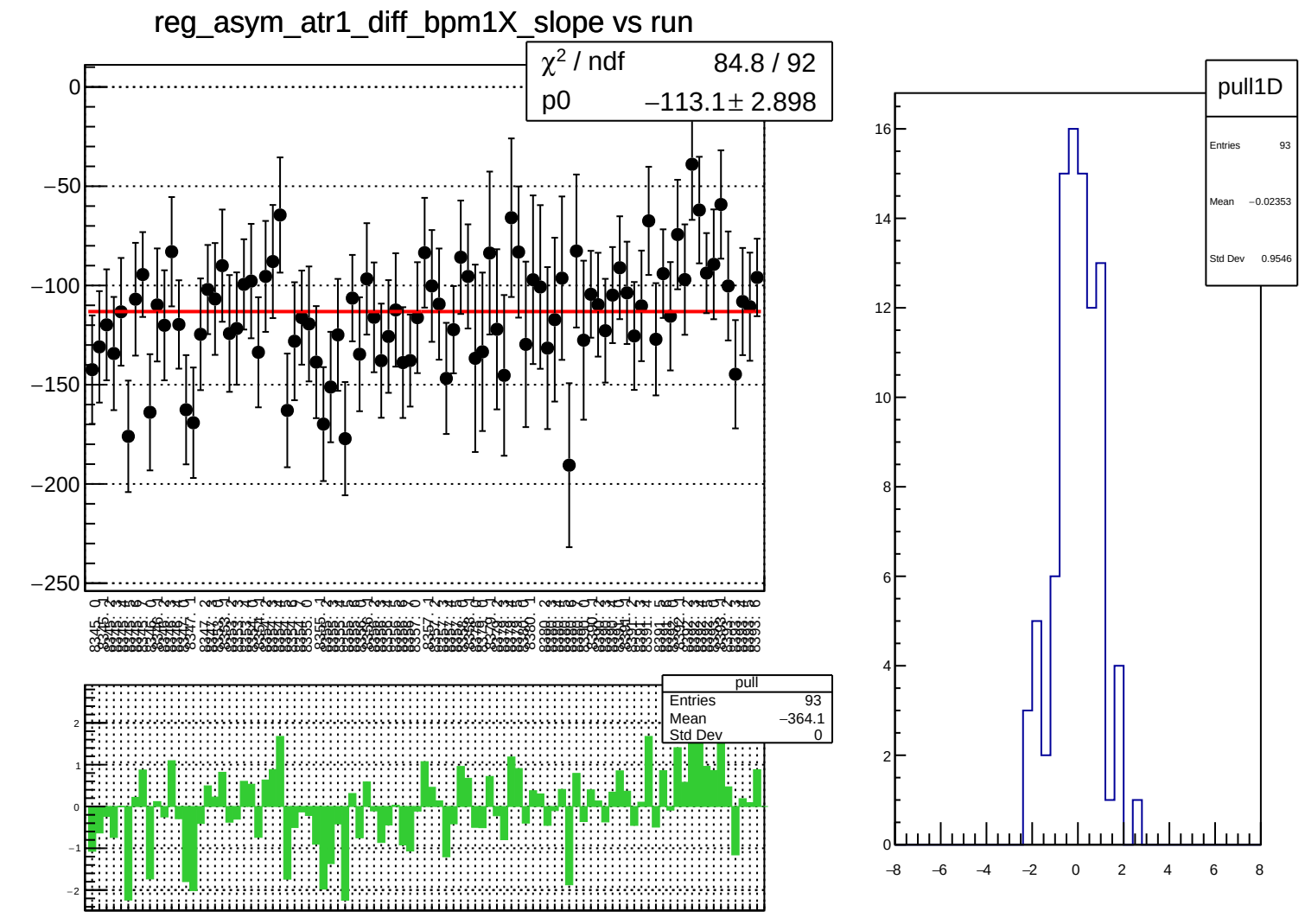

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 8.216 / 92
p0 55.71 ± 14.19
300
200
100
0
−100
−200
pull
Entries 93
Mean 67.57
Std Dev 71.26
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 93
Mean 0.009681
Std Dev 0.2971
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

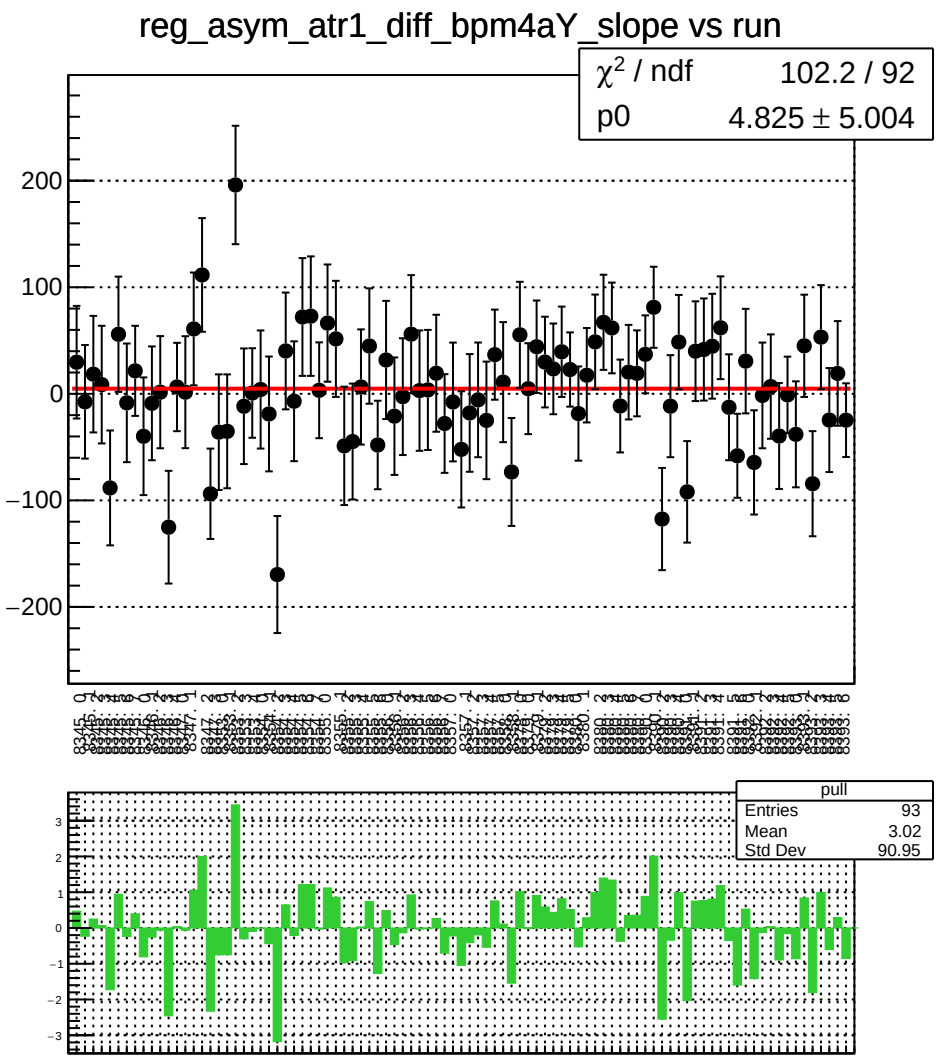

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 12.68 / 92
p0 352.2 ± 9.009
pull
Entries 93
Mean 344
Std Dev 0
pull1D
Entries 93
Mean −0.008425
Std Dev 0.3691

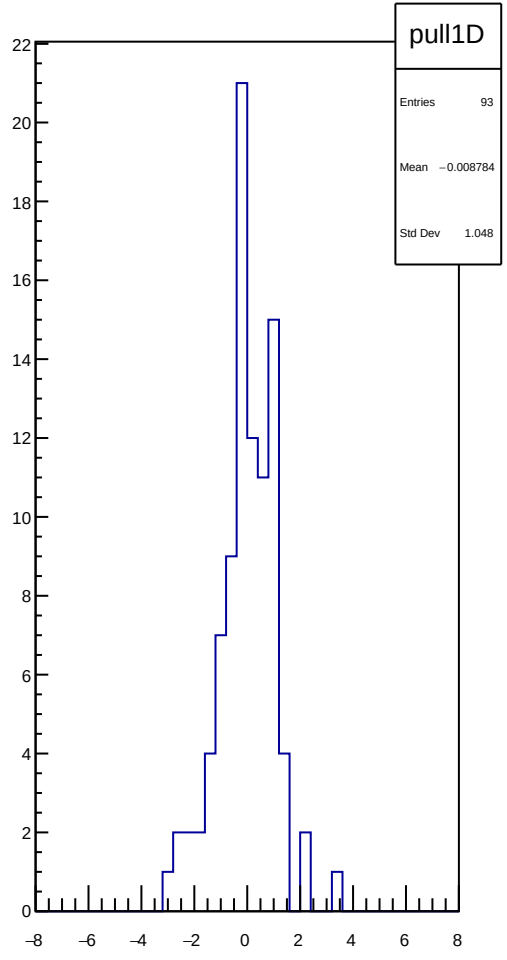

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 8.07 / 92
p0 67.46 ± 15.03
300
200
100
0
−100
−200
pull
Entries 93
Mean 232.5
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

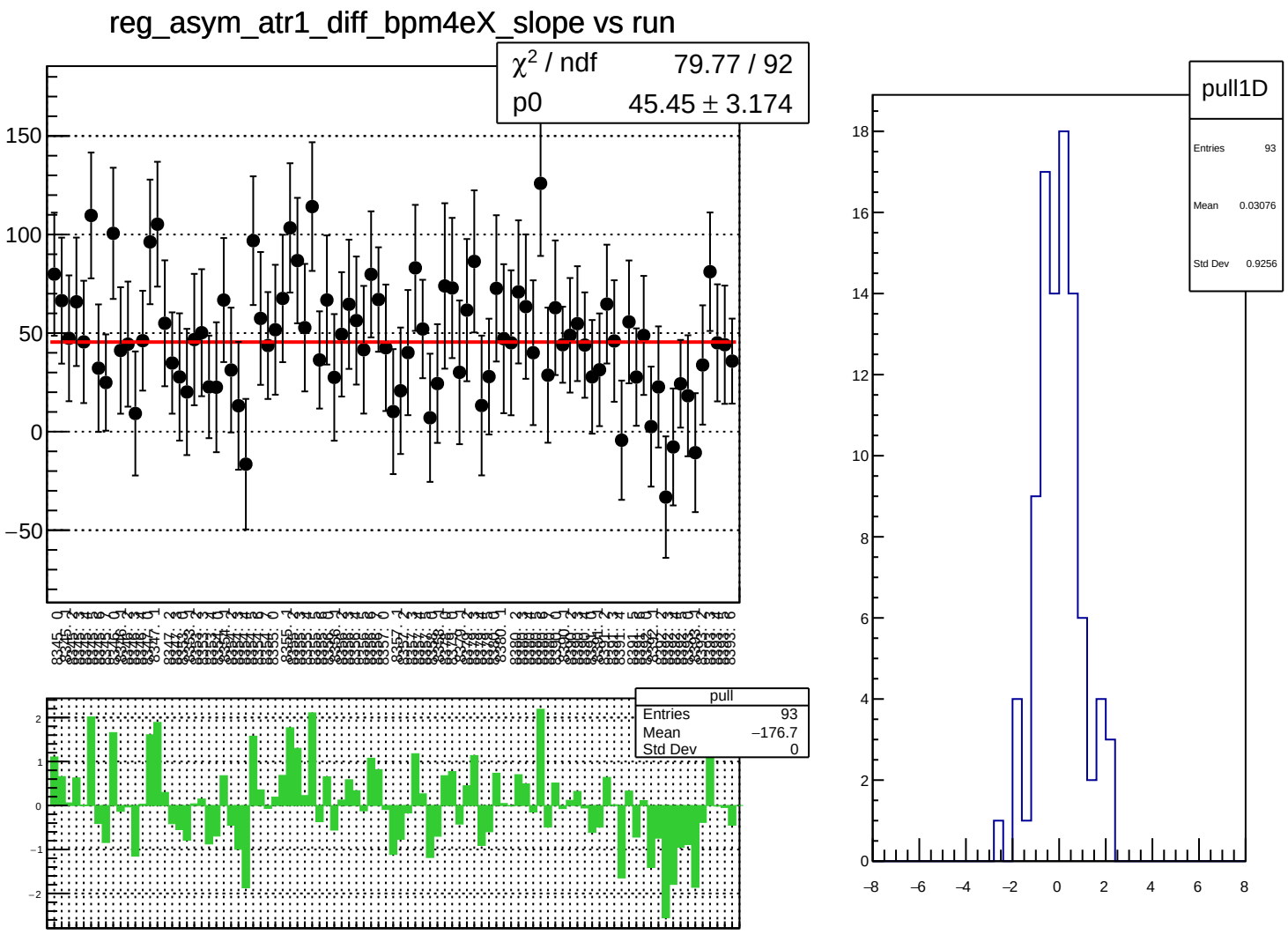

pull1D
Entries 93
Mean −0.002551
Std Dev 0.2946
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

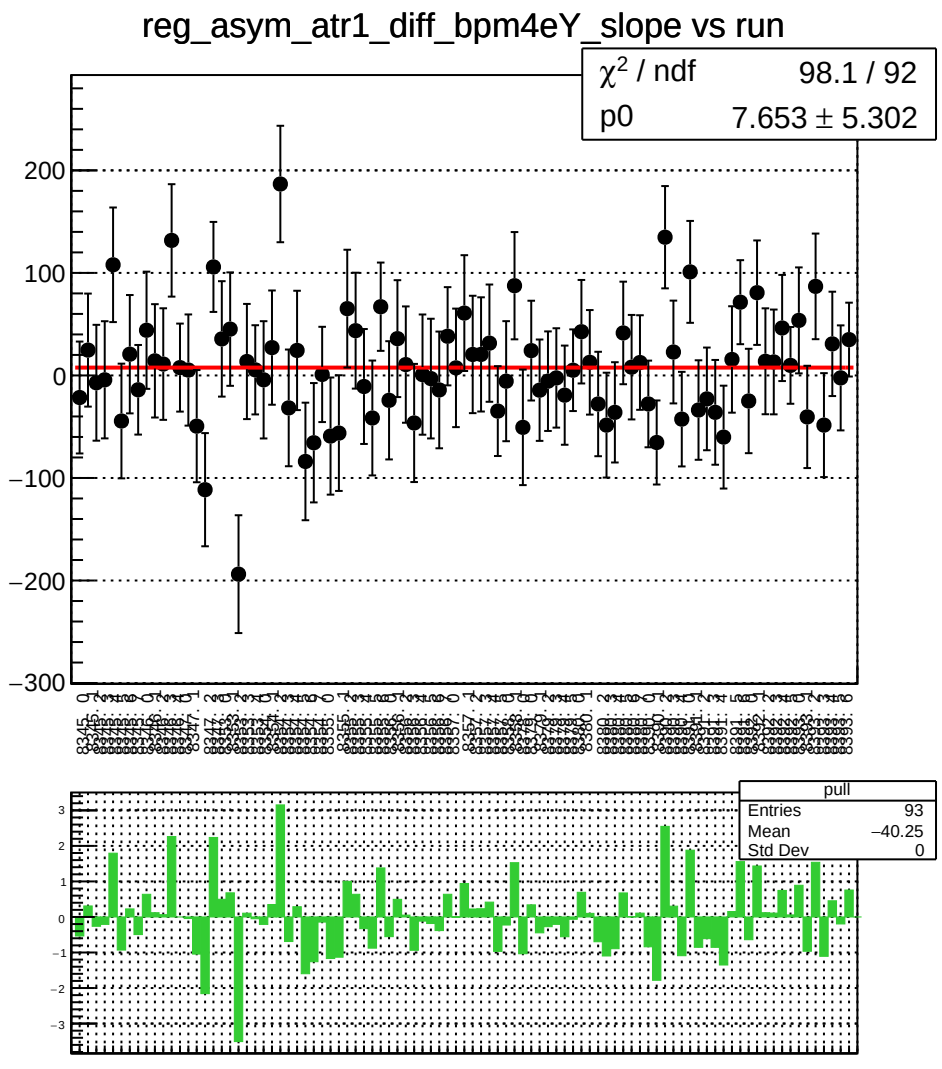

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 62.37 / 92
p0 −268.7 ± 0.8489
−240
−250
−260
−270
−280
−290
pull
Entries 93
Mean −361.5
Std Dev 0
3
2
1
0
−1
pull1D
Entries 93
Mean −0.03661
Std Dev 0.8181
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

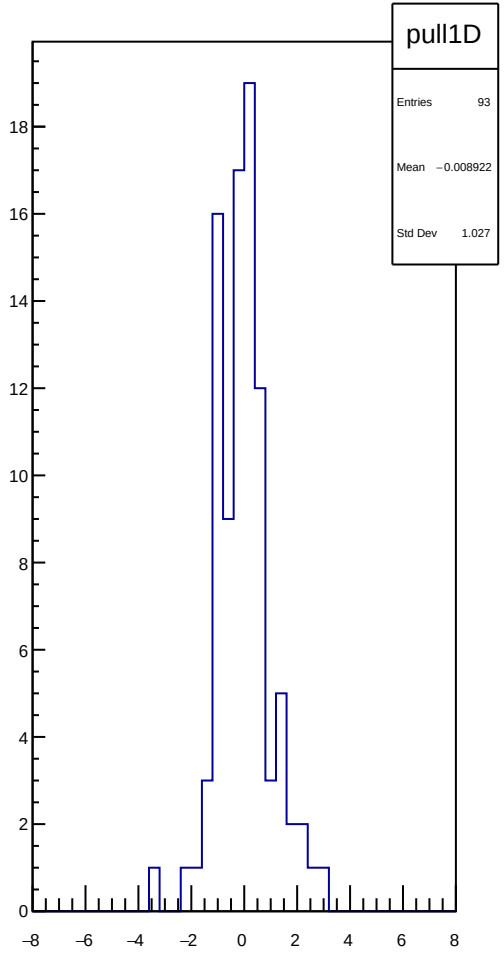

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 84.8 / 92
p0 −113.1± 2.898
pull
Entries 93
Mean −364.1
Std Dev 0
pull1D
Entries 93
Mean −0.02353
Std Dev 0.9546

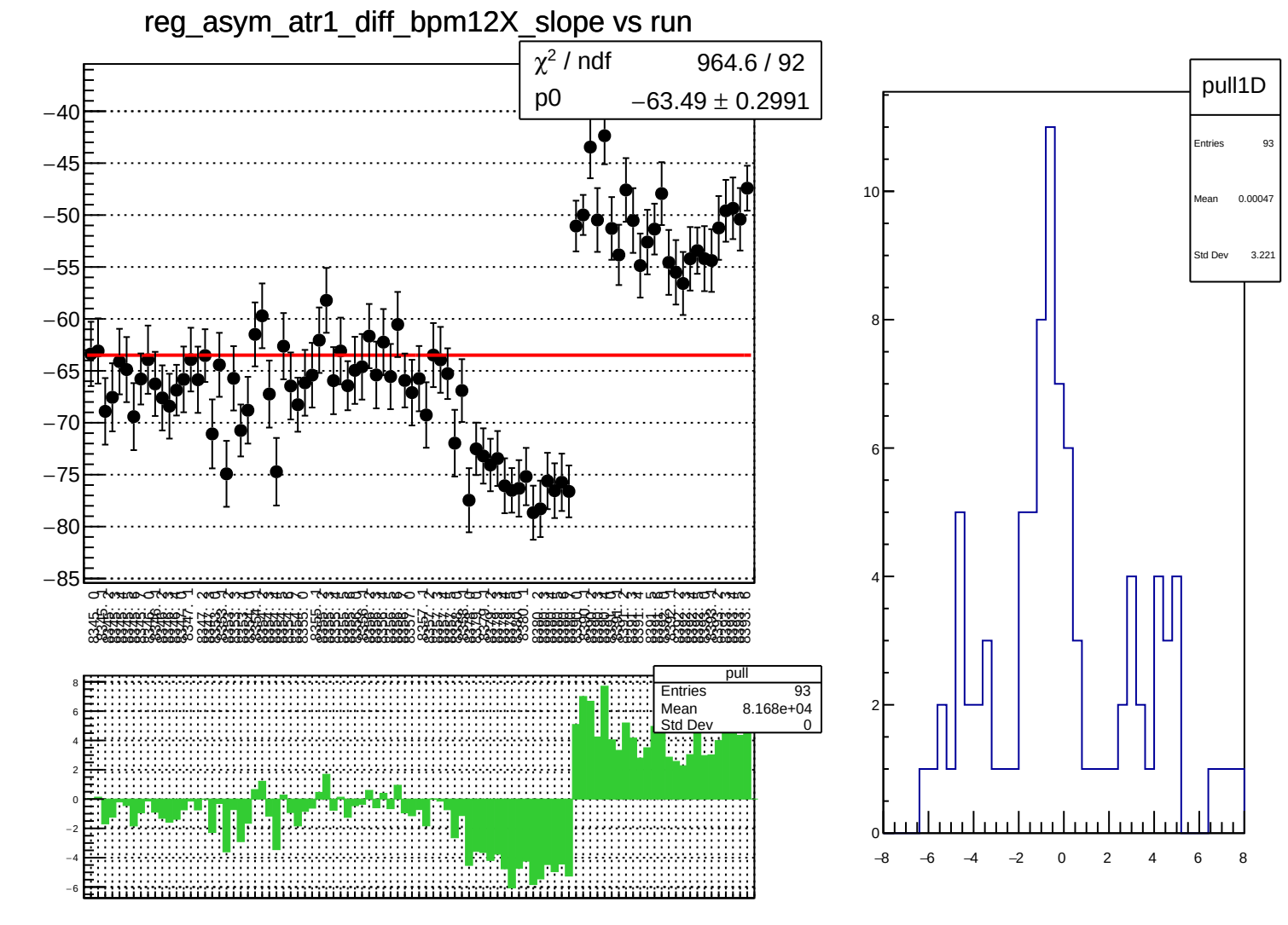

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 102.2 / 92
p0 4.825 ± 5.004
200
100
0
−100
−200
pull
Entries 93
Mean 3.02
Std Dev 90.95
3
2
1
0
−1
−2
−3

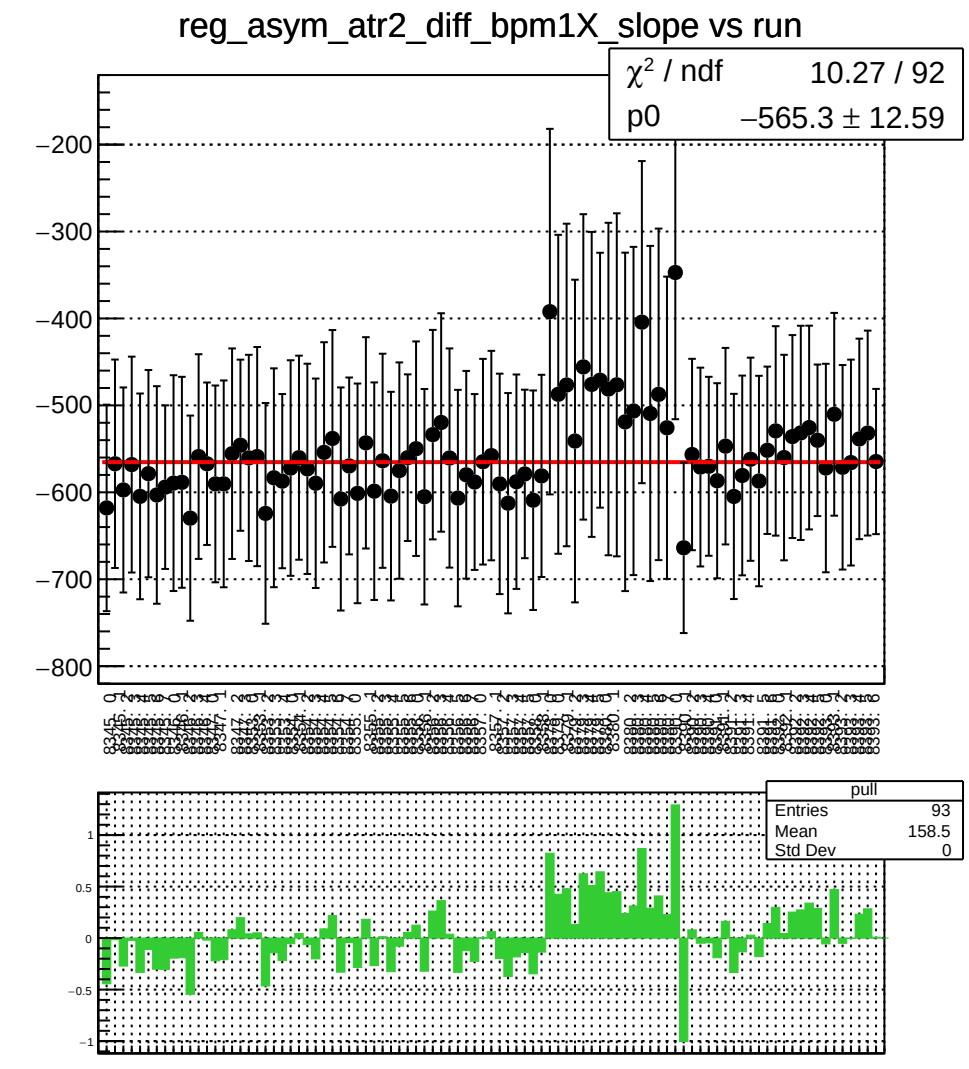

pull1D
Entries 93
Mean −0.008784
Std Dev 1.048
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

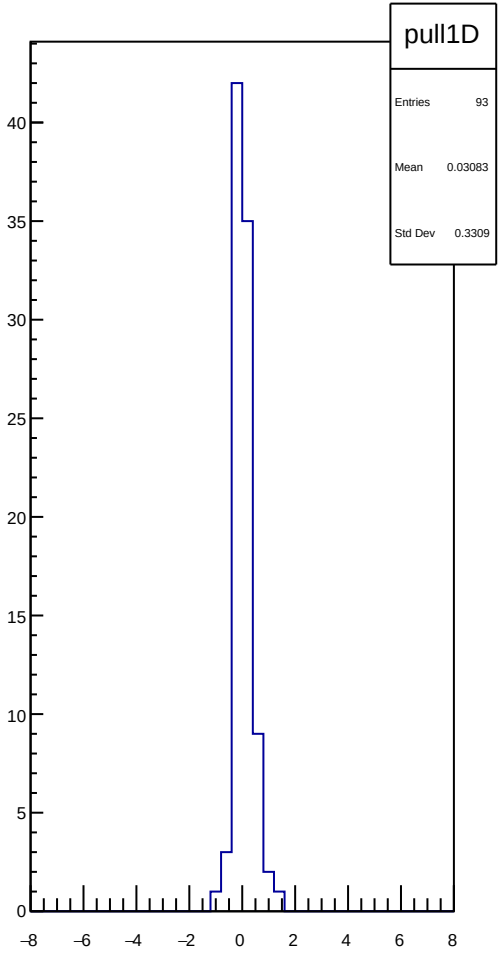

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 79.77 / 92
p0 45.45 ± 3.174
150
100
50
0
−50
pull
Entries 93
Mean −176.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.03076
Std Dev 0.9256
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

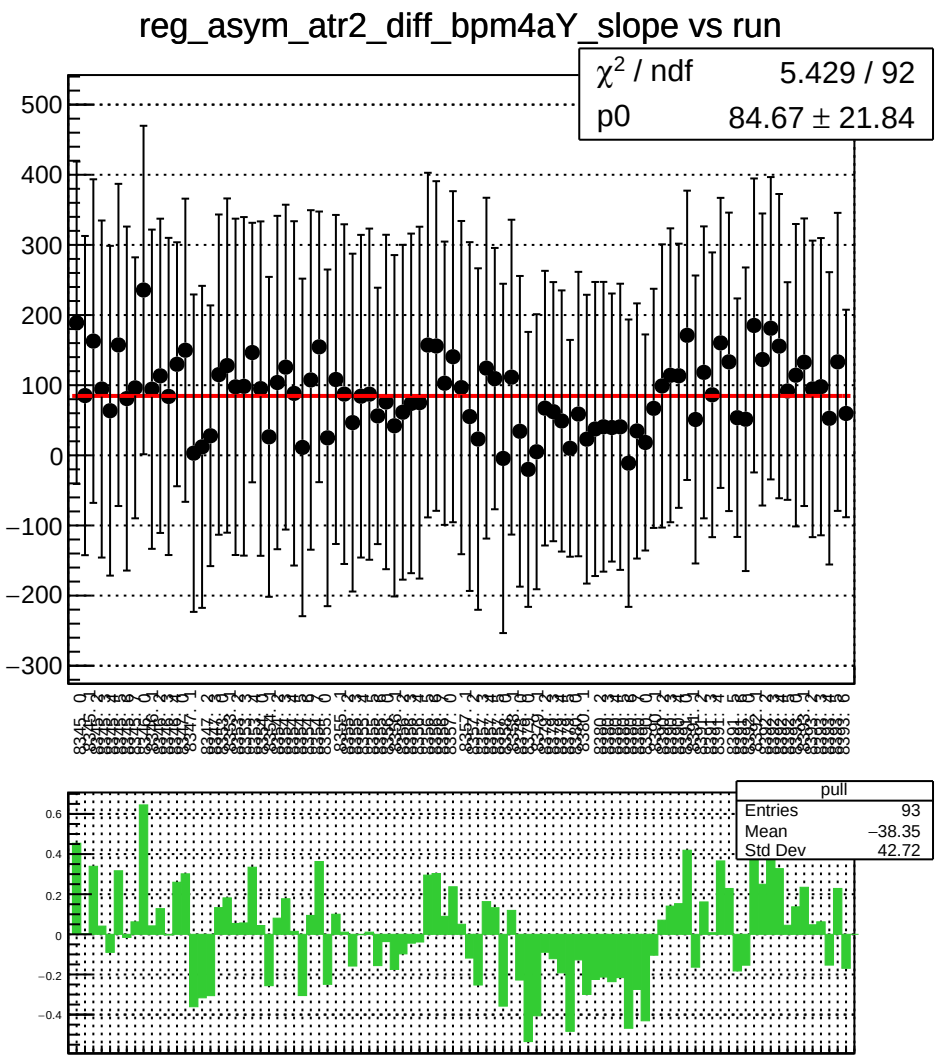

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 98.1 / 92
p0 7.653 ± 5.302
200
100
0
−100
−200
−300
pull
Entries 93
Mean −40.25
Std Dev 0
3
2
1
0
−1
−2
−3

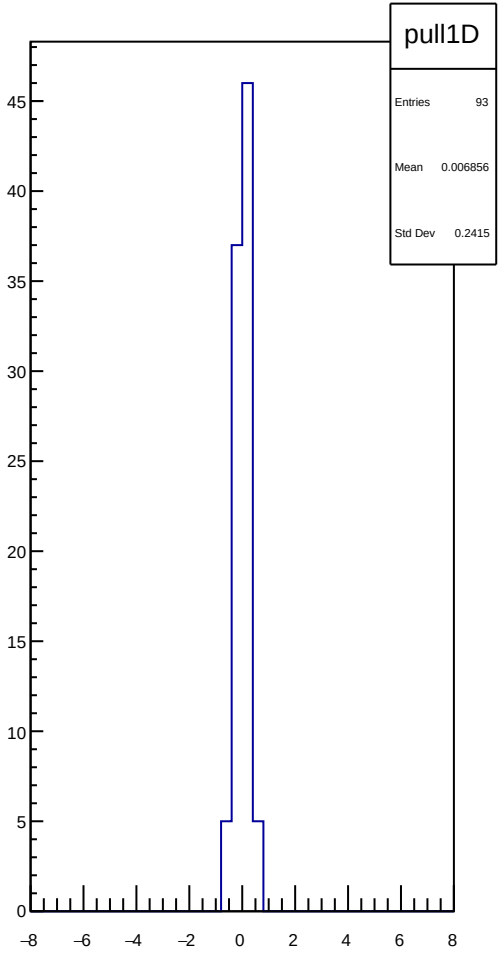

pull1D
Entries 93
Mean −0.008922
Std Dev 1.027
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

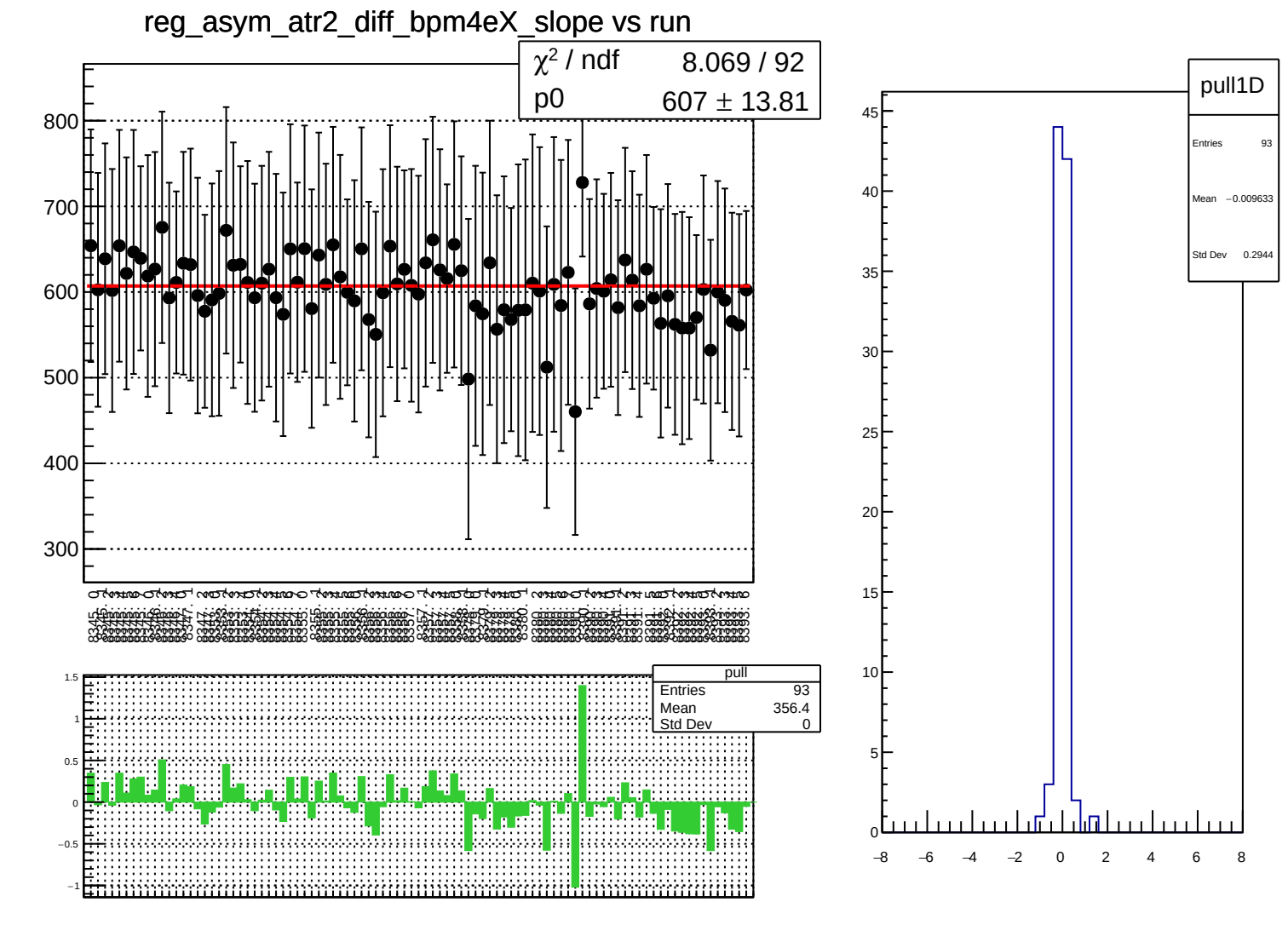

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 964.6 / 92
p0 −63.49 ± 0.2991
pull
Entries 93
Mean 8.168e+04
Std Dev 0
pull1D
Entries 93
Mean 0.00047
Std Dev 3.221

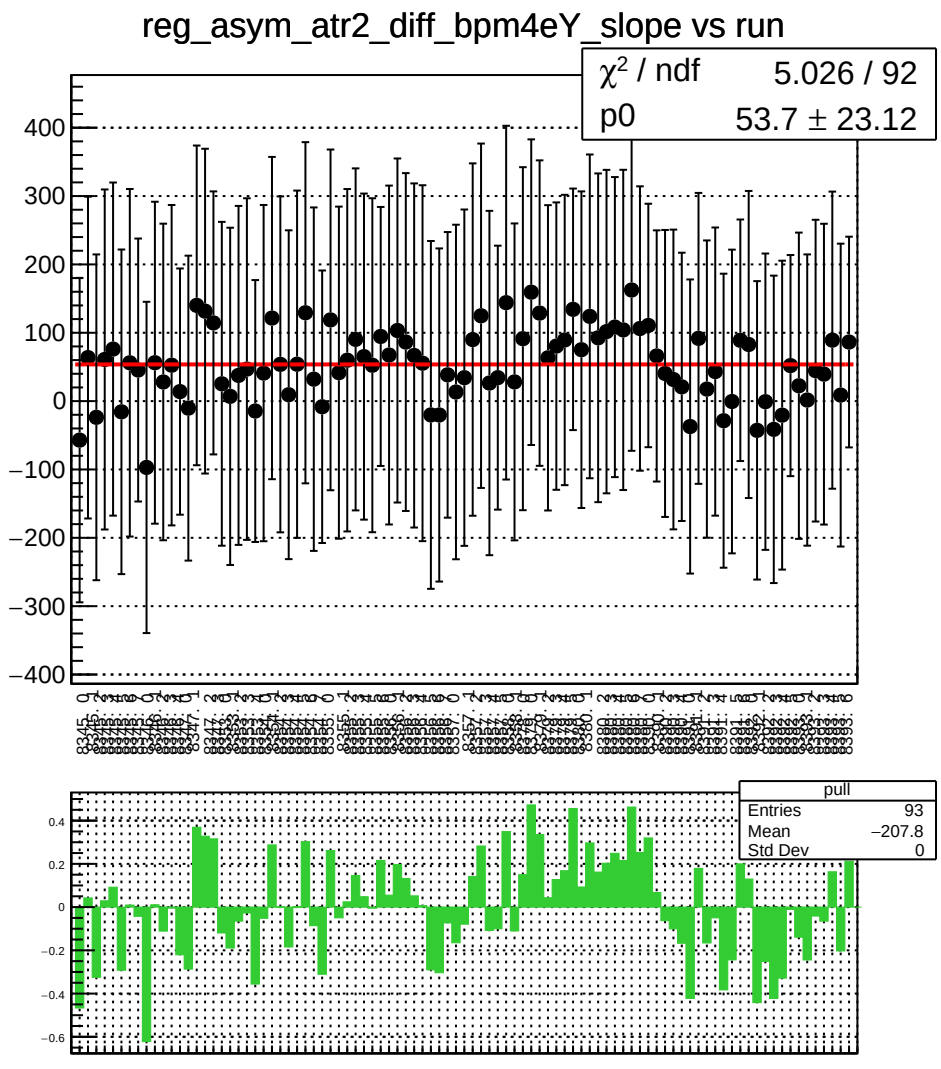

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 10.27 / 92
p0 −565.3 ± 12.59
pull
Entries 93
Mean 158.5
Std Dev 0

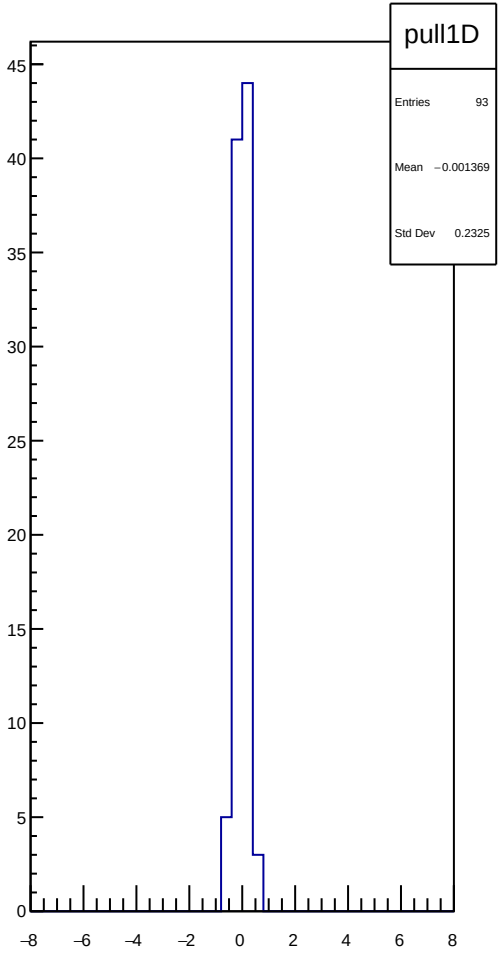

pull1D
Entries 93
Mean 0.03083
Std Dev 0.3309

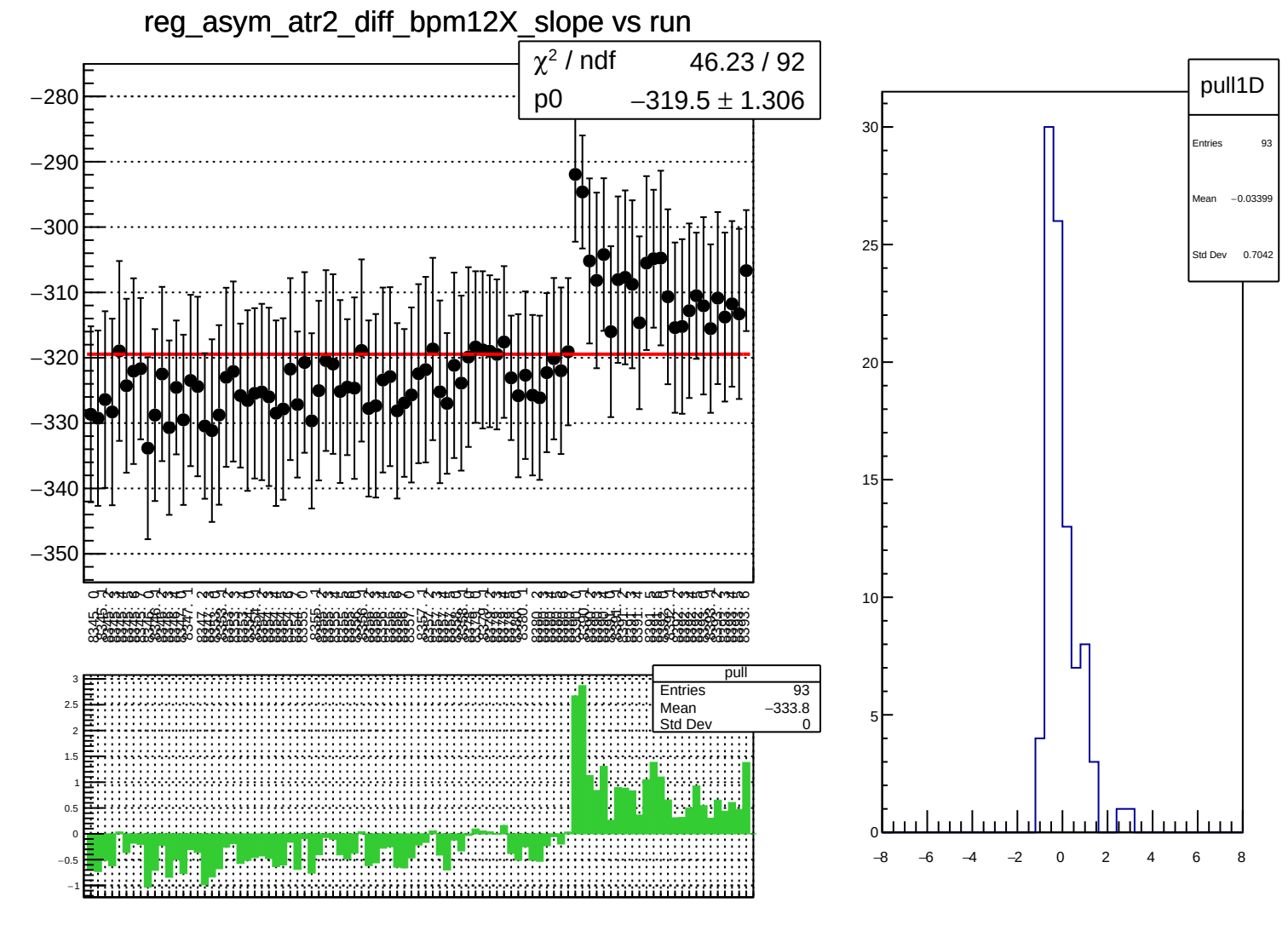

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 5.429 / 92
p0 84.67 ± 21.84
pull
Entries 93
Mean −38.35
Std Dev 42.72

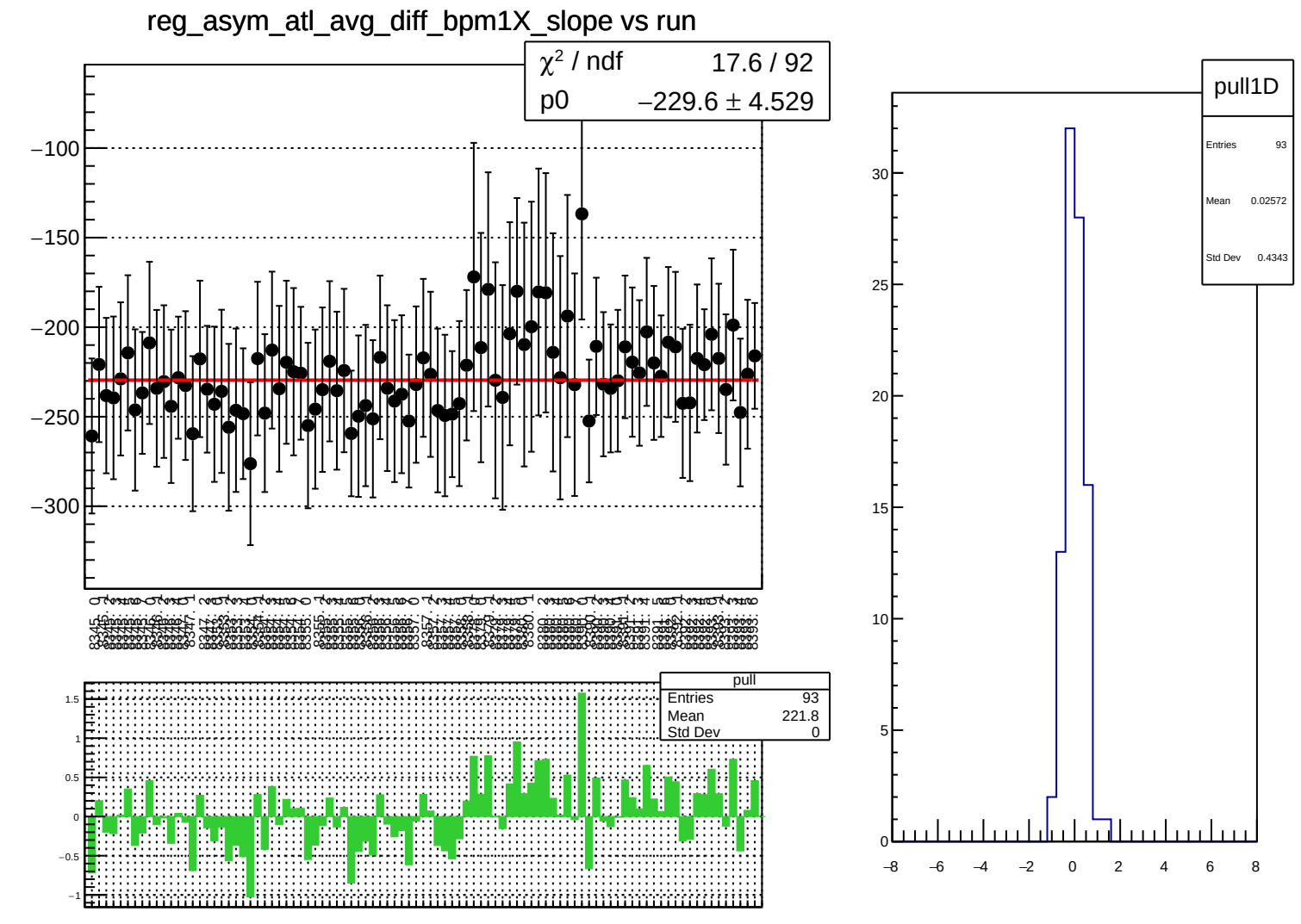

pull1D
Entries 93
Mean 0.006856
Std Dev 0.2415

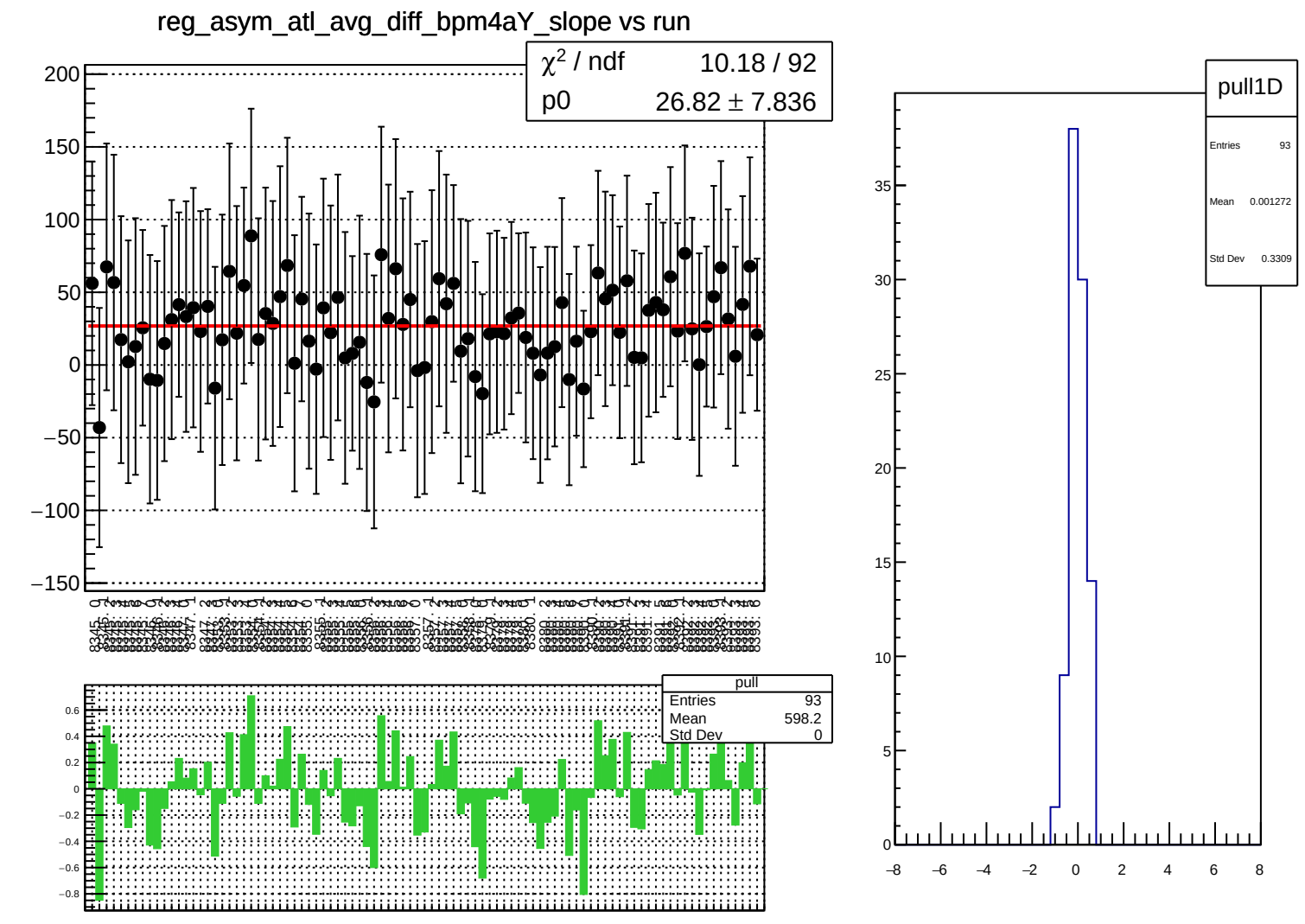

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 8.069 / 92
p0 607 ± 13.81
800
700
600
500
400
300
pull
Entries 93
Mean 356.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 93
Mean −0.009633
Std Dev 0.2944
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

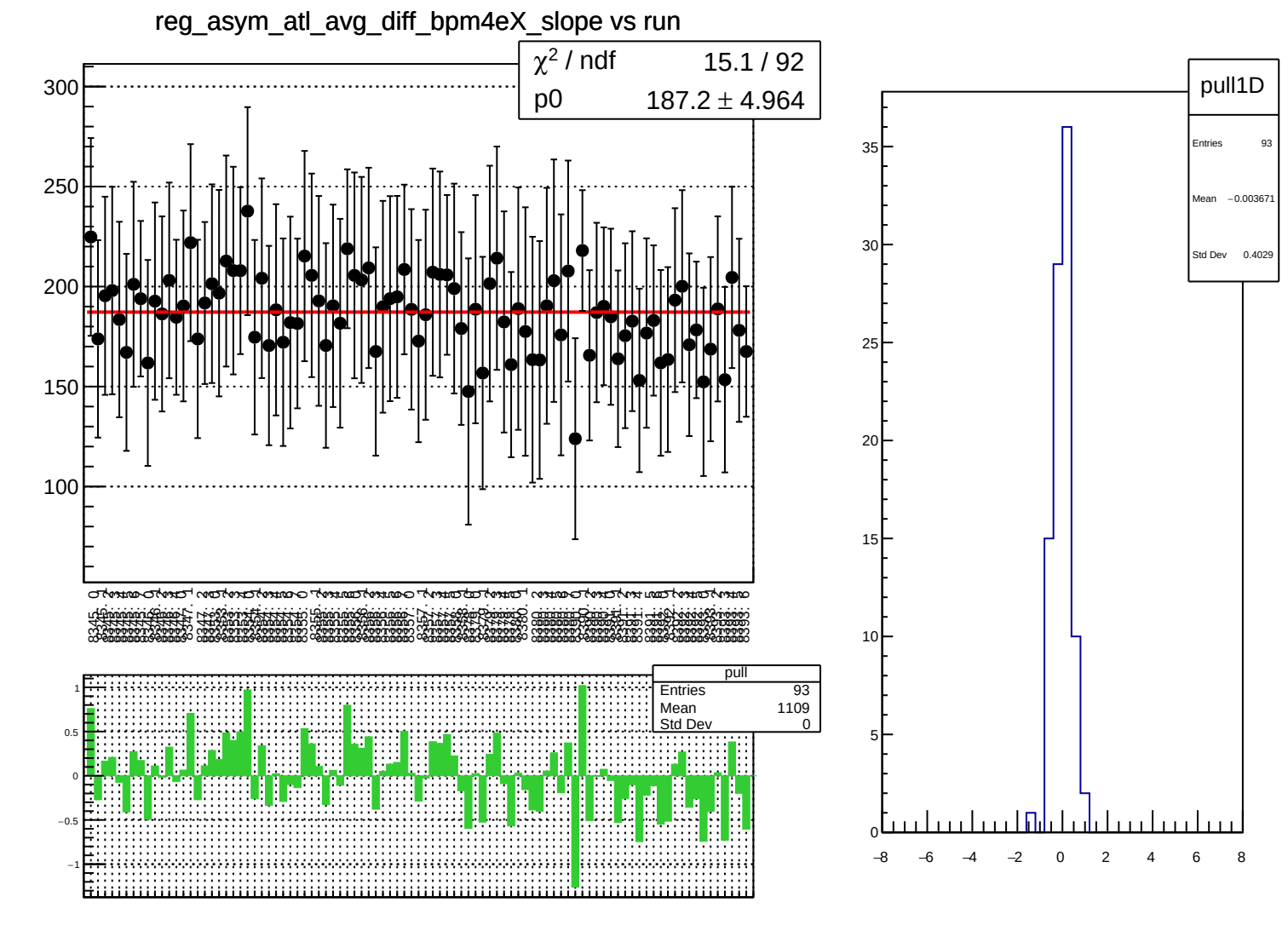

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 5.026 / 92
p0 53.7 ± 23.12
pull
Entries 93
Mean −207.8
Std Dev 0

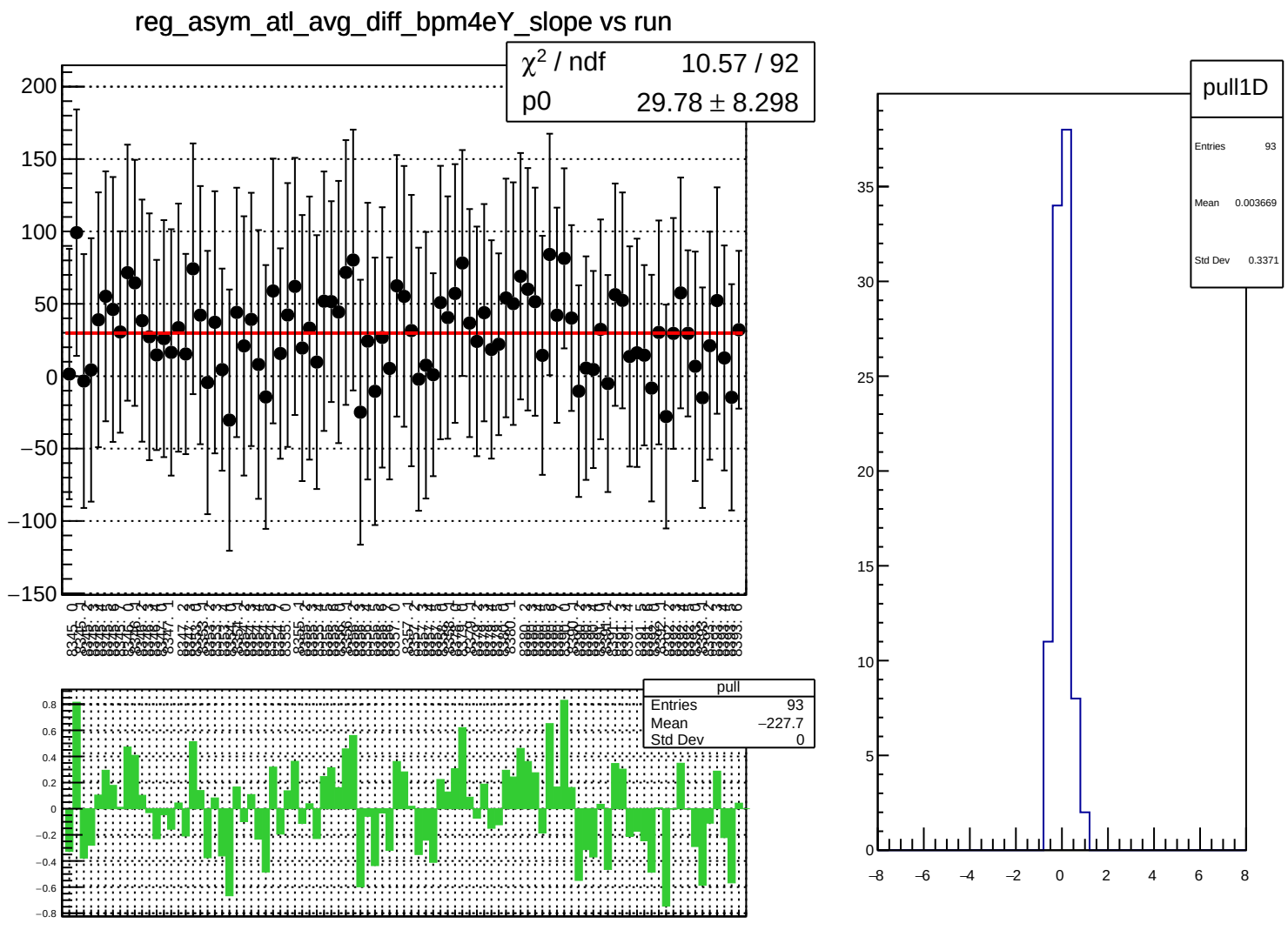

pull1D
Entries 93
Mean −0.001369
Std Dev 0.2325

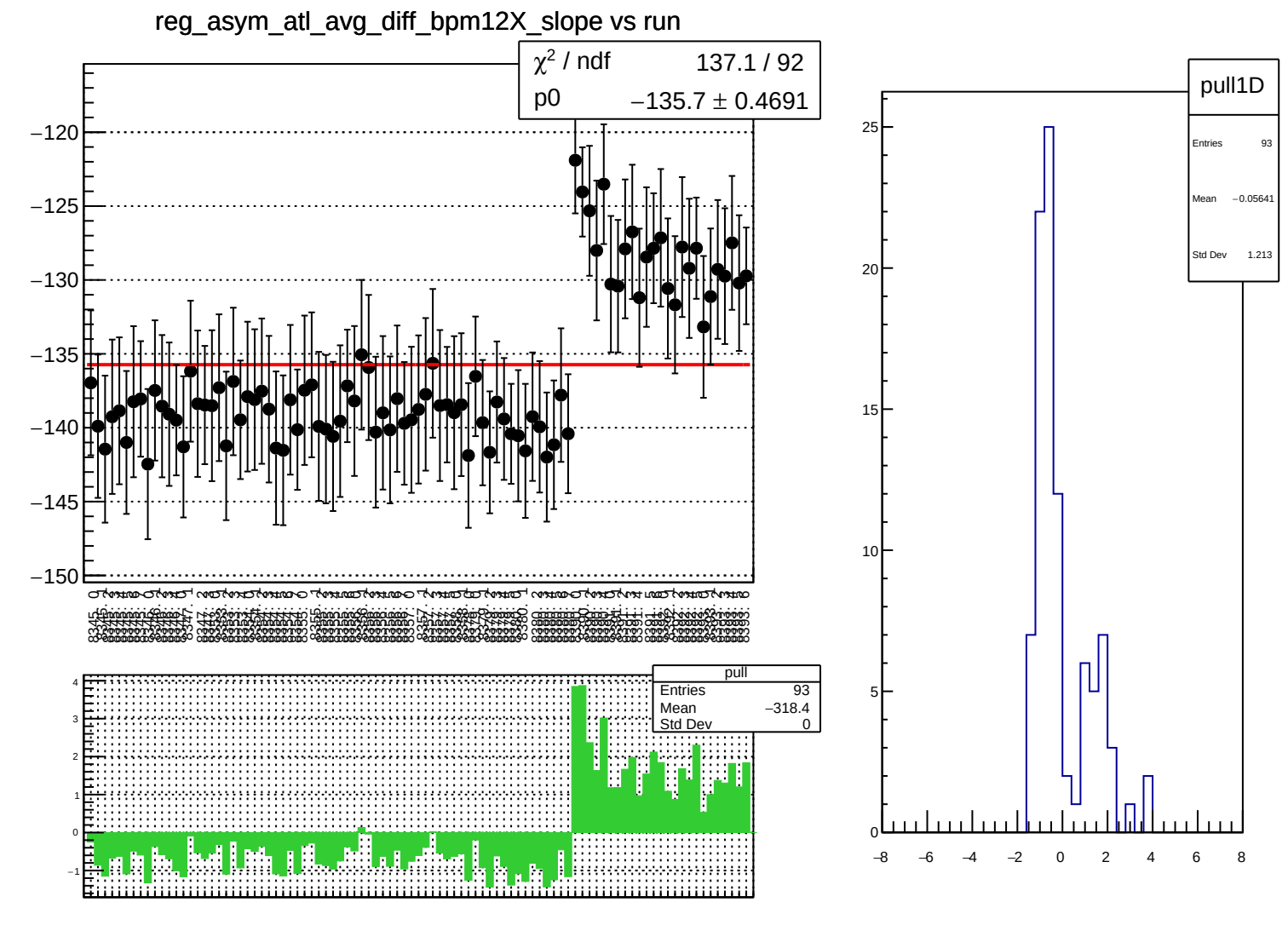

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 46.23 / 92
p0 −319.5 ± 1.306
−280
−290
−300
−310
−320
−330
−340
−350
pull
Entries 93
Mean −333.8
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 93
Mean −0.03399
Std Dev 0.7042
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

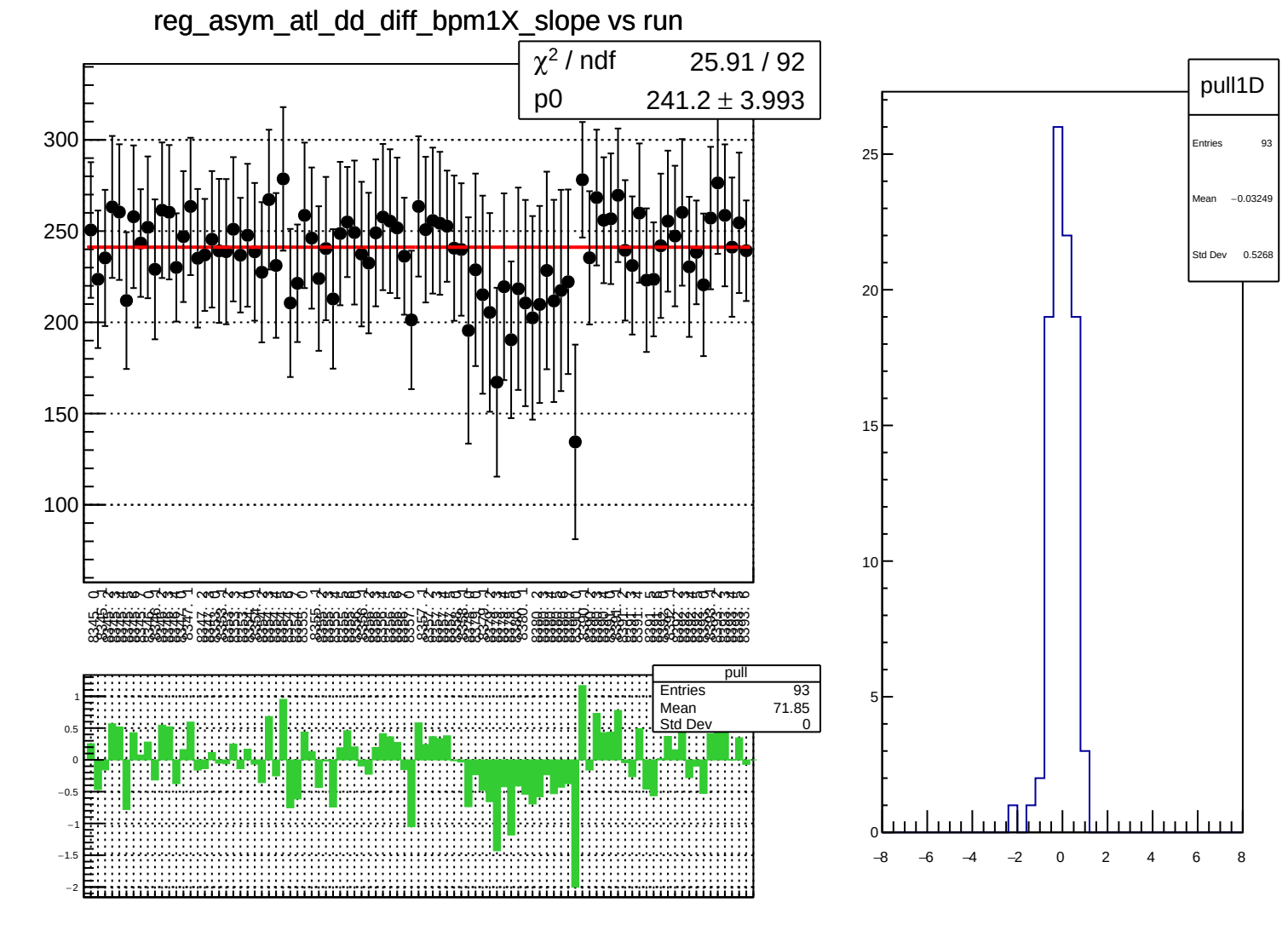

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 17.6 / 92
p0 −229.6 ± 4.529
−100
−150
−200
−250
−300
pull
Entries 93
Mean 221.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 93
Mean 0.02572
Std Dev 0.4343
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

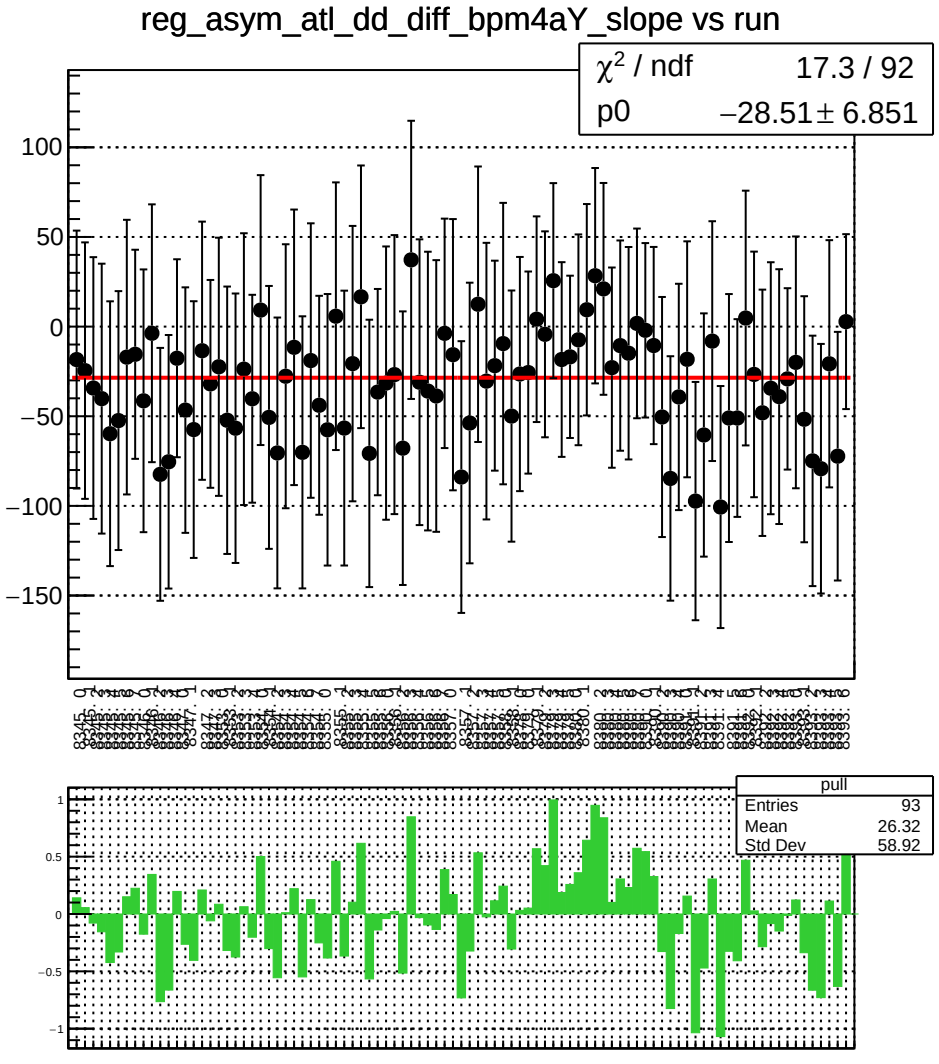

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 10.18 / 92
p0 26.82 ± 7.836
pull
Entries 93
Mean 598.2
Std Dev 0
pull1D
Entries 93
Mean 0.001272
Std Dev 0.3309

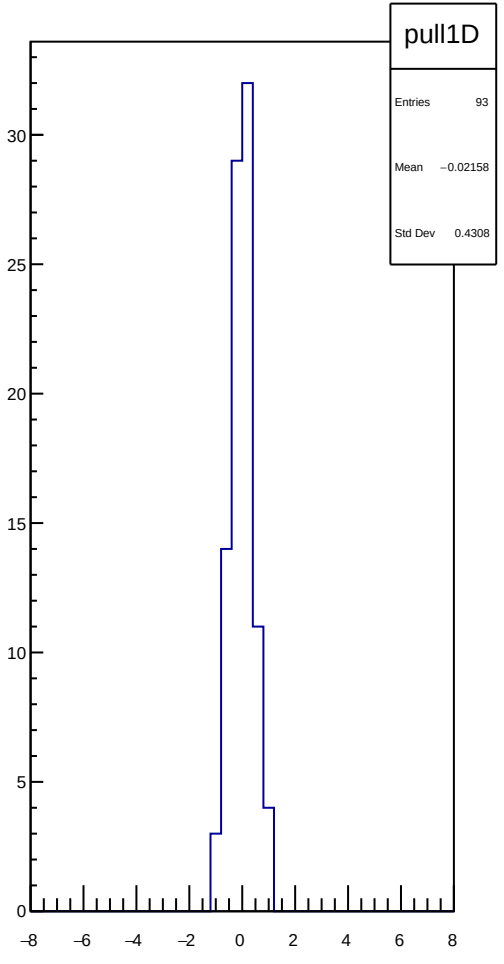

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 15.1 / 92
p0 187.2 ± 4.964
pull
Entries 93
Mean 1109
Std Dev 0
pull1D
Entries 93
Mean −0.003671
Std Dev 0.4029

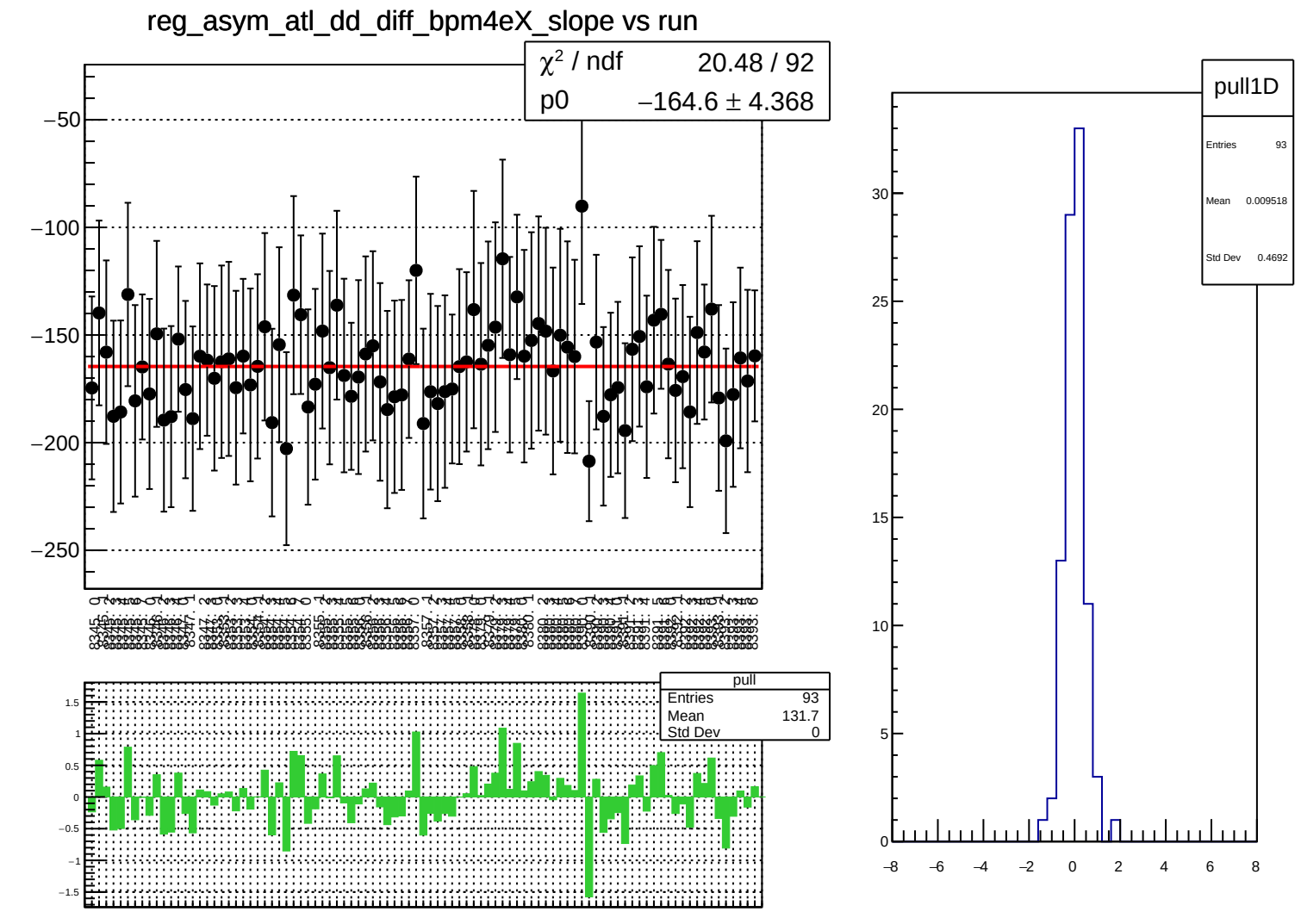

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 10.57 / 92
p0 29.78 ± 8.298
pull
Entries 93
Mean −227.7
Std Dev 0
pull1D
Entries 93
Mean 0.003669
Std Dev 0.3371

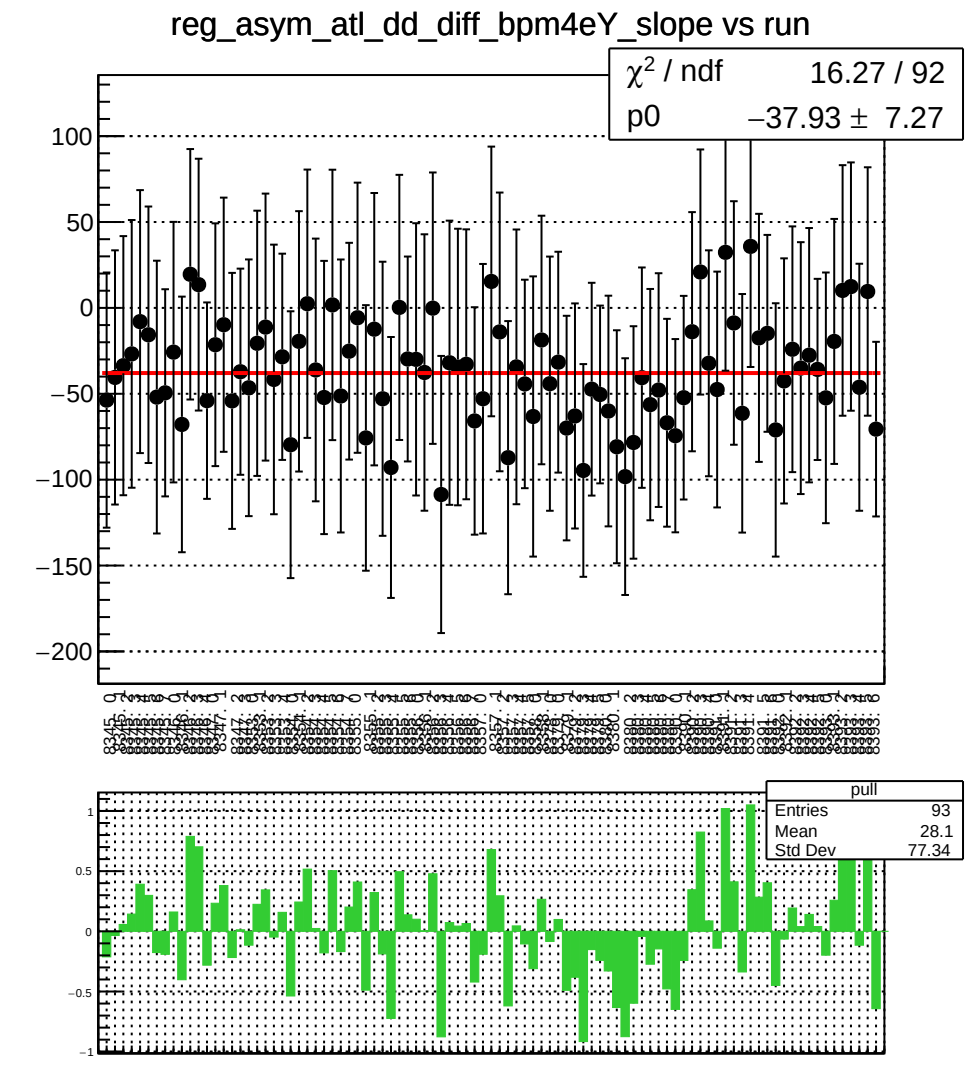

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 137.1 / 92
p0 −135.7 ± 0.4691
pull
Entries 93
Mean −318.4
Std Dev 0
pull1D
Entries 93
Mean −0.05641
Std Dev 1.213

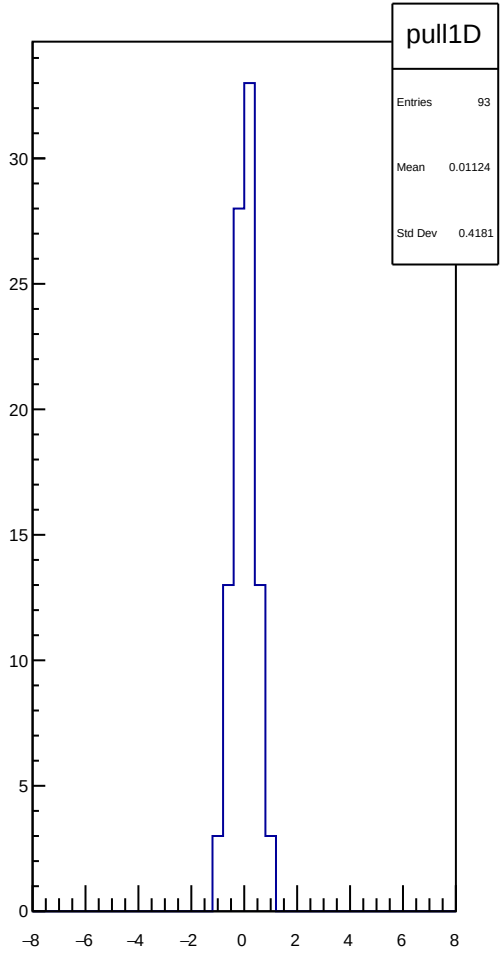

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 25.91 / 92
p0 241.2 ± 3.993
300
250
200
150
100
pull
Entries 93
Mean 71.85
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean −0.03249
Std Dev 0.5268
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

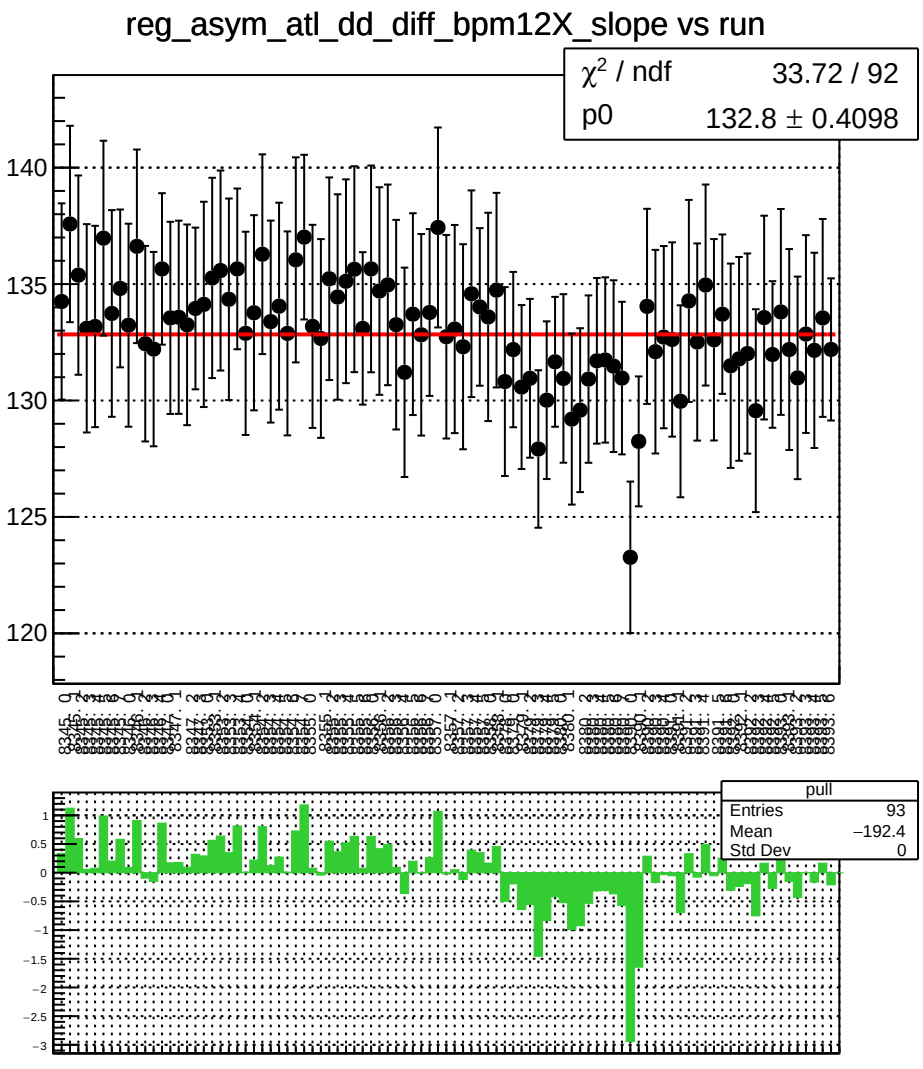

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 17.3 / 92
p0 −28.51 ± 6.851
100
50
0
−50
−100
−150
pull
Entries 93
Mean 26.32
Std Dev 58.92
1
0.5
0
−0.5
−1

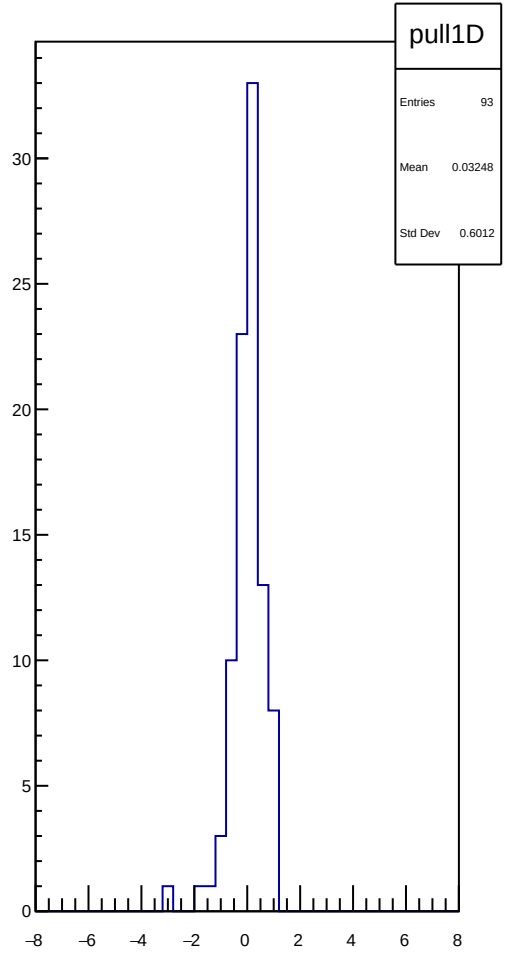

pull1D
Entries 93
Mean −0.02158
Std Dev 0.4308
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

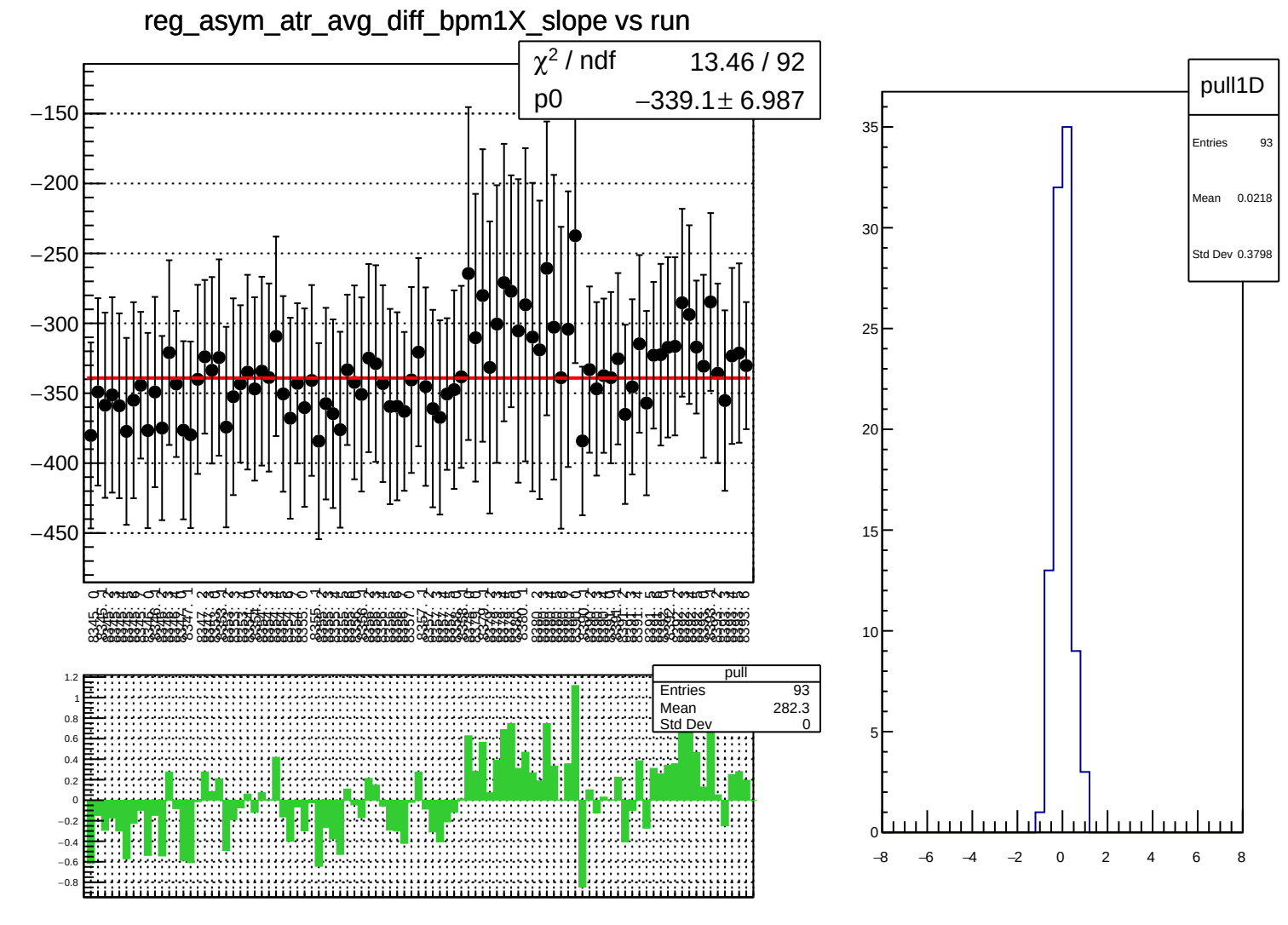

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 20.48 / 92
p0 −164.6 ± 4.368
−50
−100
−150
−200
−250
pull
Entries 93
Mean 131.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean 0.009518
Std Dev 0.4692
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

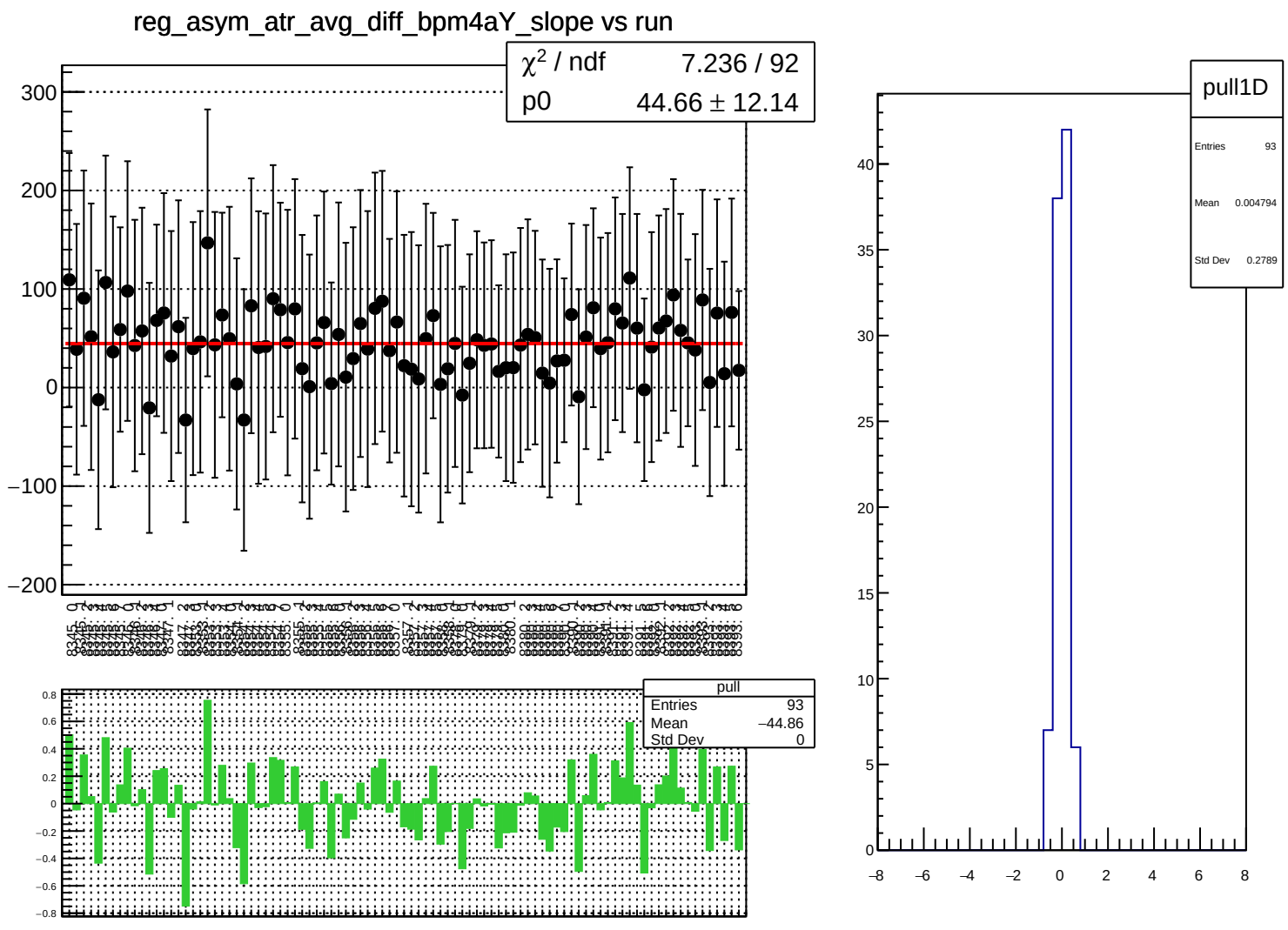

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 16.27 / 92
p0 −37.93 ± 7.27
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean 28.1
Std Dev 77.34
1
0.5
0
−0.5
−1

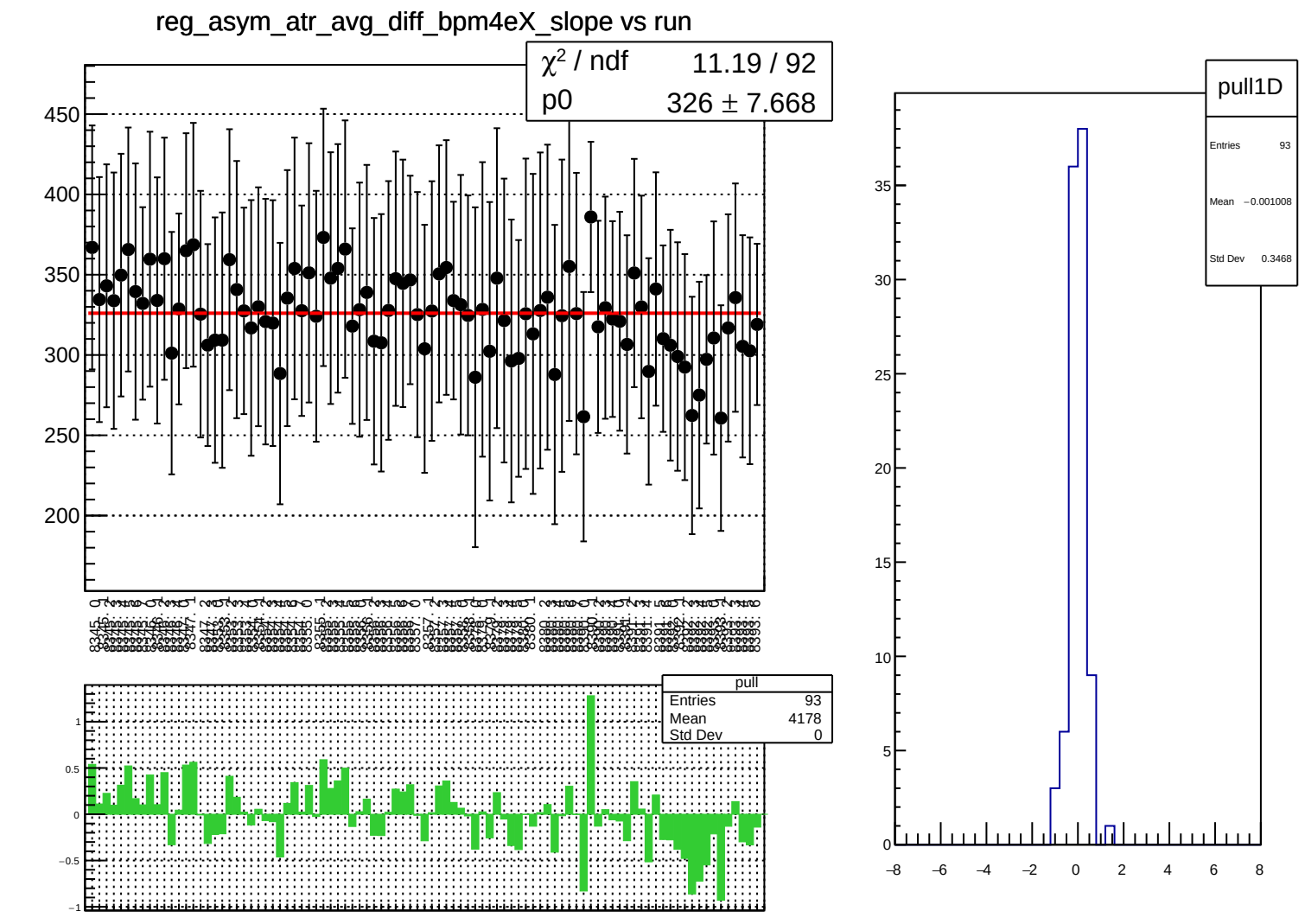

pull1D
Entries 93
Mean 0.01124
Std Dev 0.4181
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

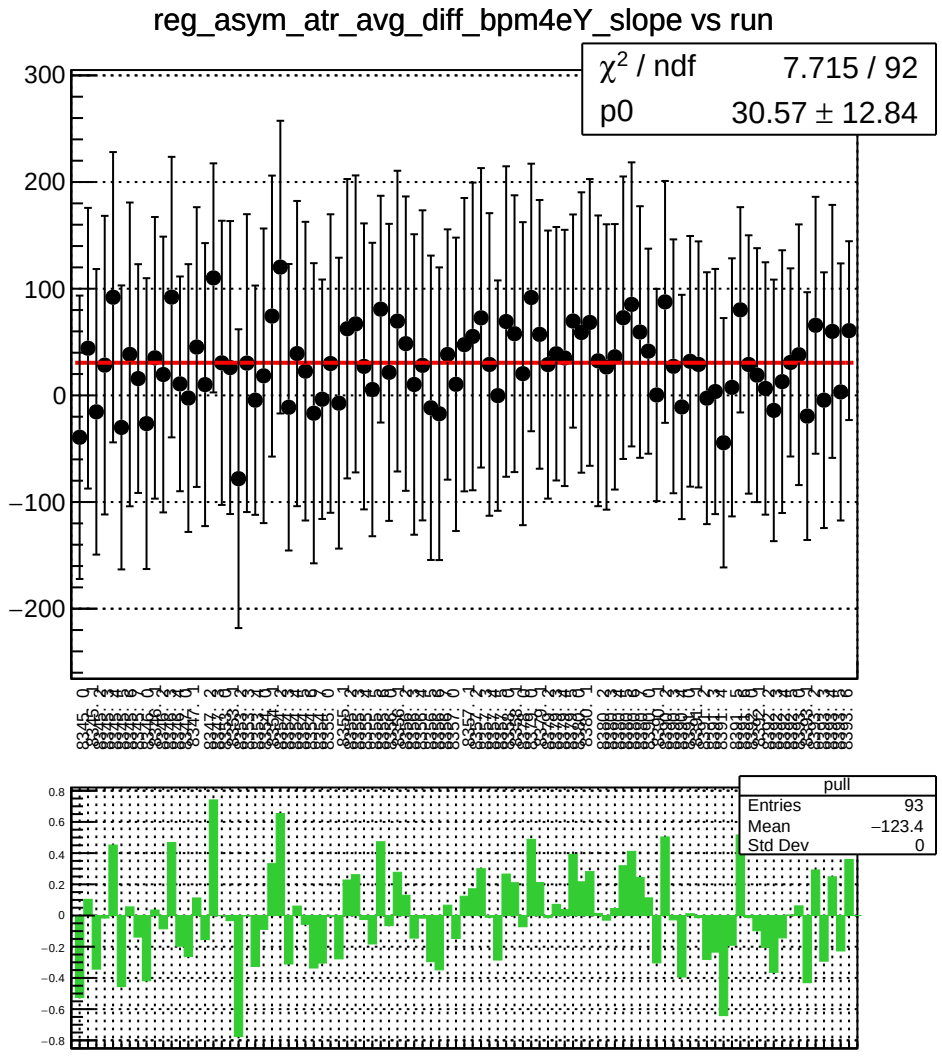

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 33.72 / 92
p0 132.8 ± 0.4098
140
135
130
125
120
pull
Entries 93
Mean −192.4
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

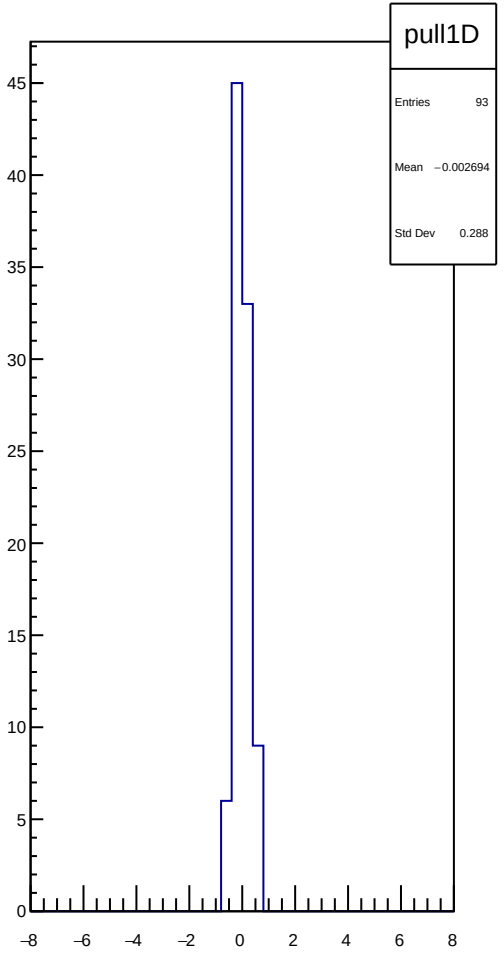

pull1D
Entries 93
Mean 0.03248
Std Dev 0.6012
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

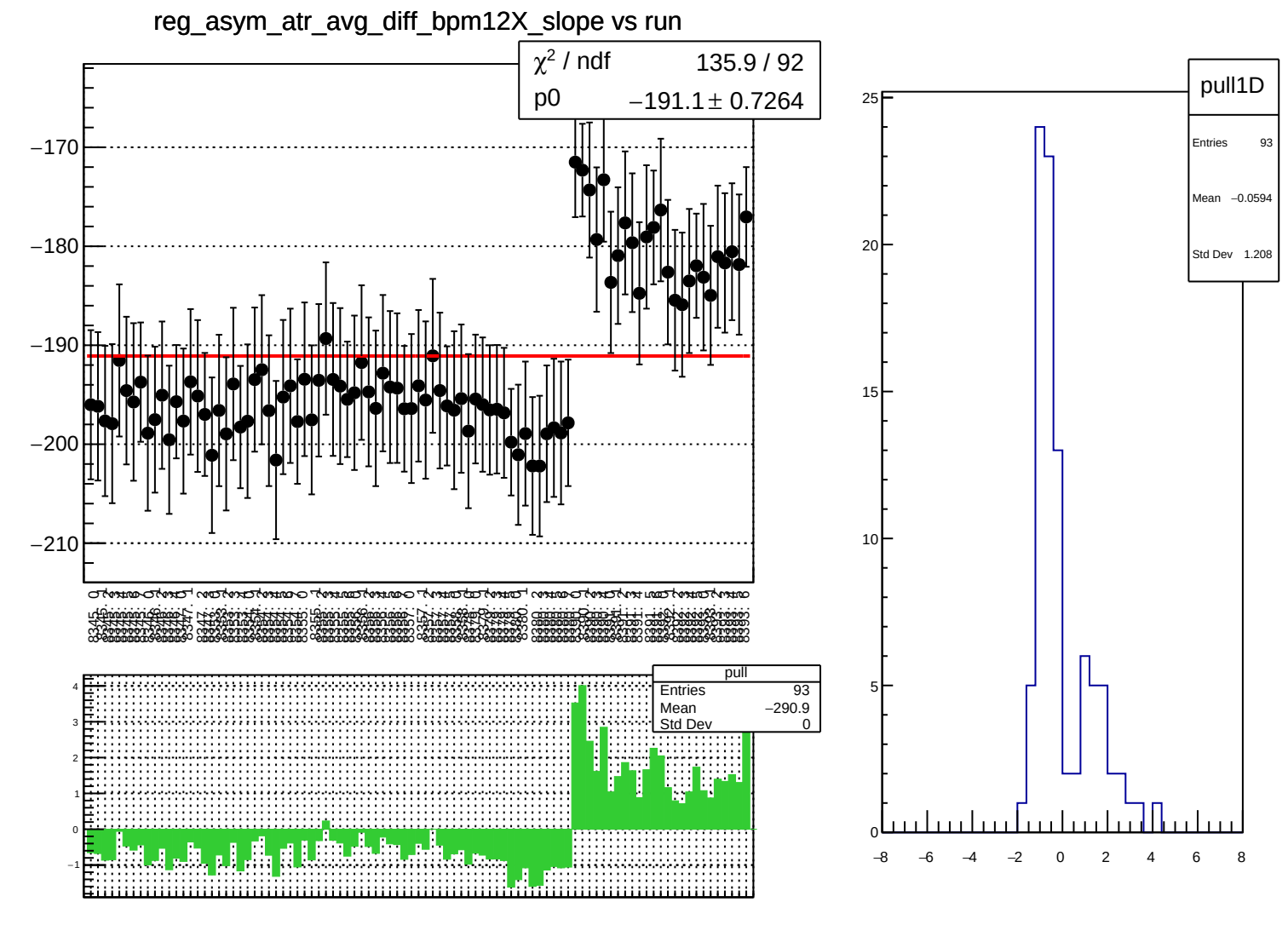

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 13.46 / 92
p0 −339.1 ± 6.987
pull
Entries 93
Mean 282.3
Std Dev 0
pull1D
Entries 93
Mean 0.0218
Std Dev 0.3798

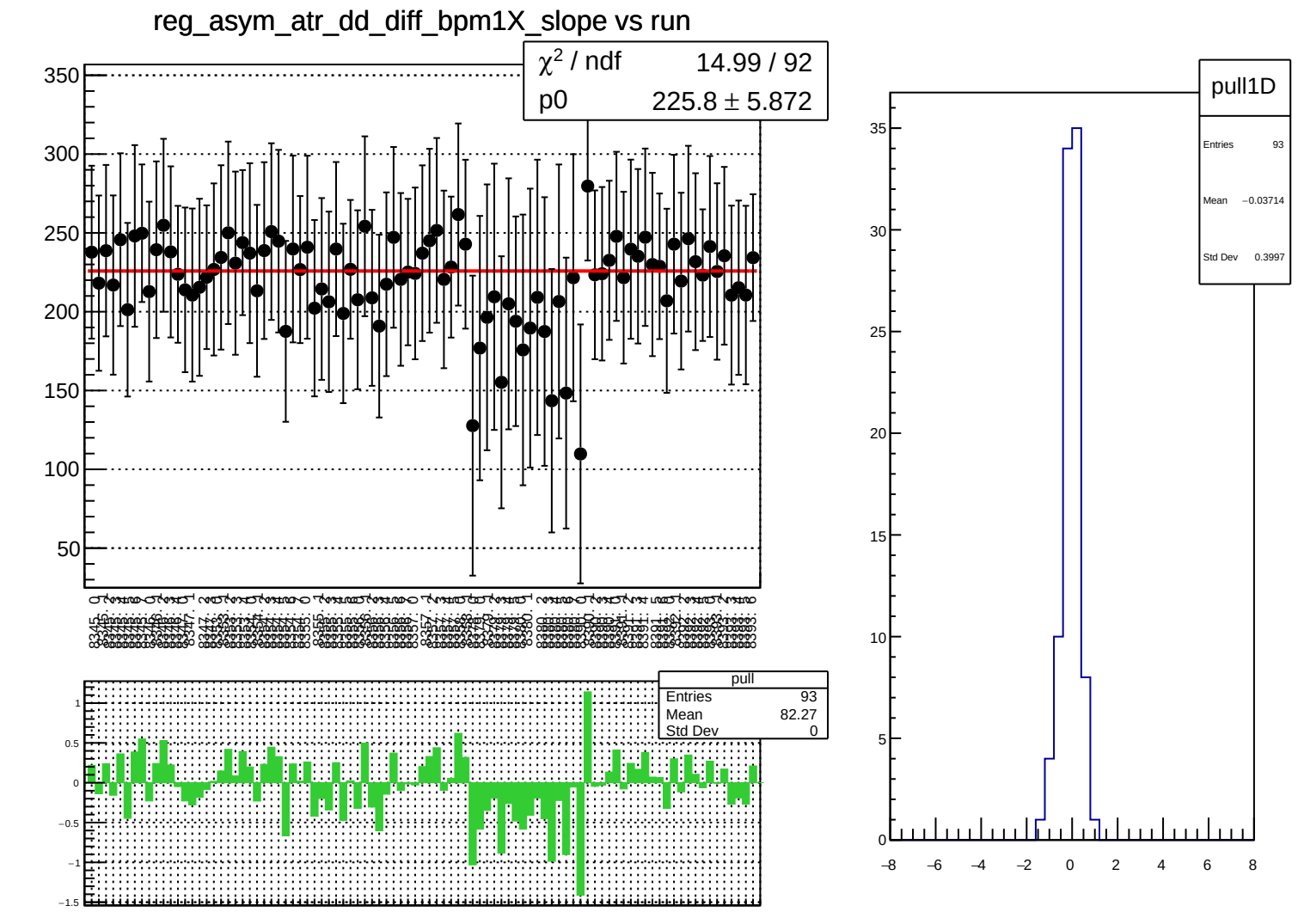

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.236 / 92
p0 44.66 ± 12.14
300
200
100
0
−100
−200
pull
Entries 93
Mean −44.86
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 93
Mean 0.004794
Std Dev 0.2789
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

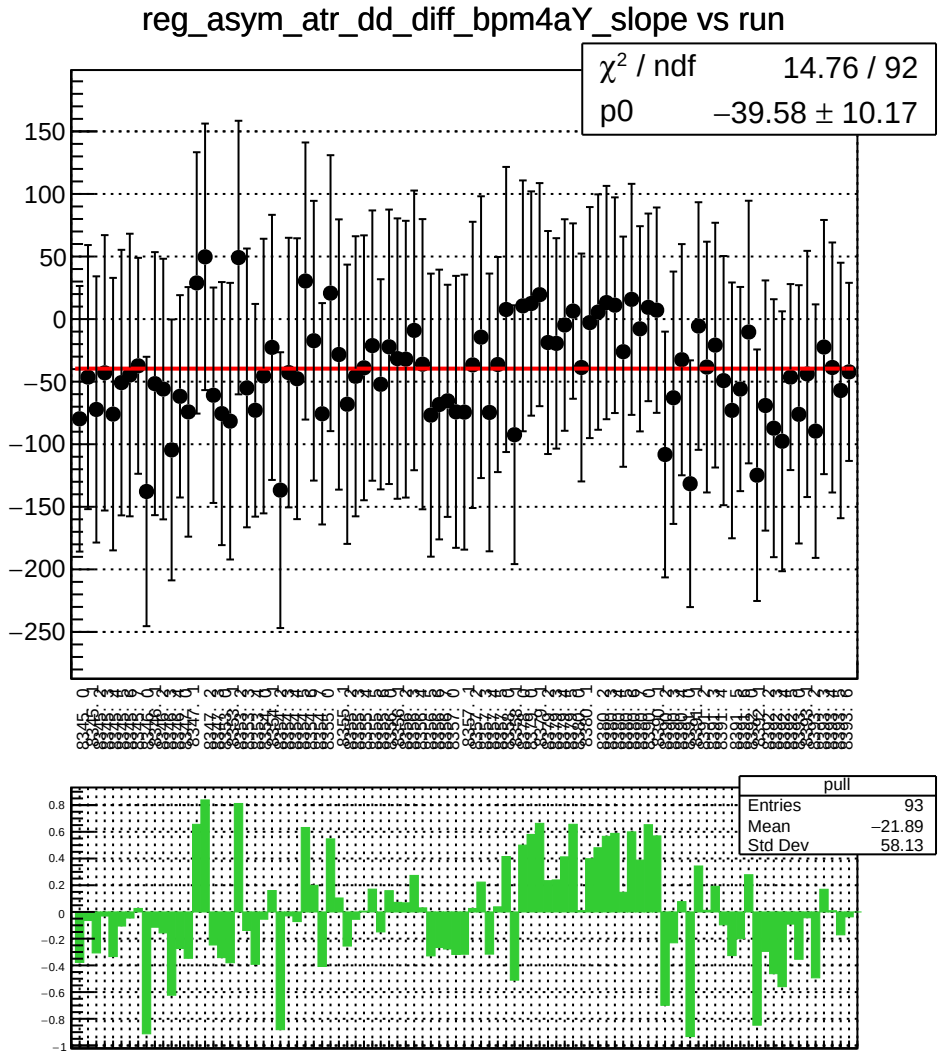

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 11.19 / 92
p0 326 ± 7.668
pull
Entries 93
Mean 4178
Std Dev 0
pull1D
Entries 93
Mean −0.001008
Std Dev 0.3468

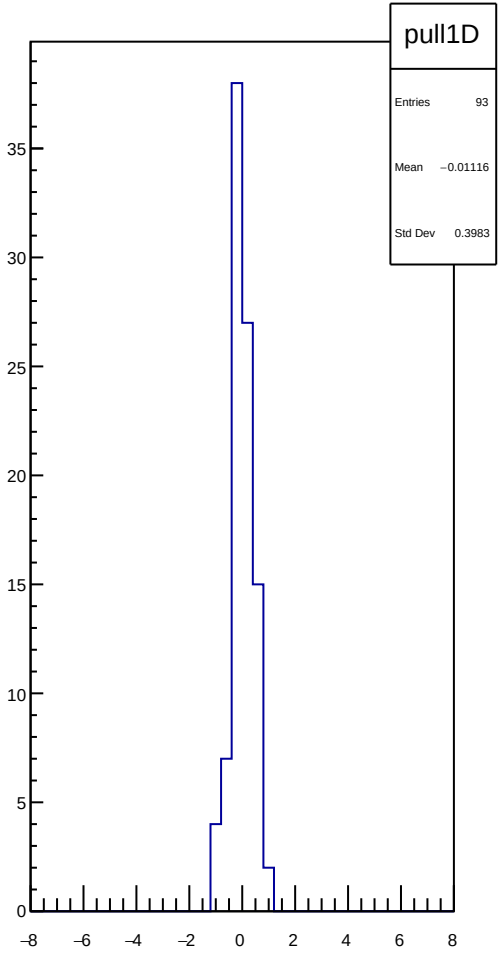

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.715 / 92
p0 30.57 ± 12.84
pull
Entries 93
Mean −123.4
Std Dev 0

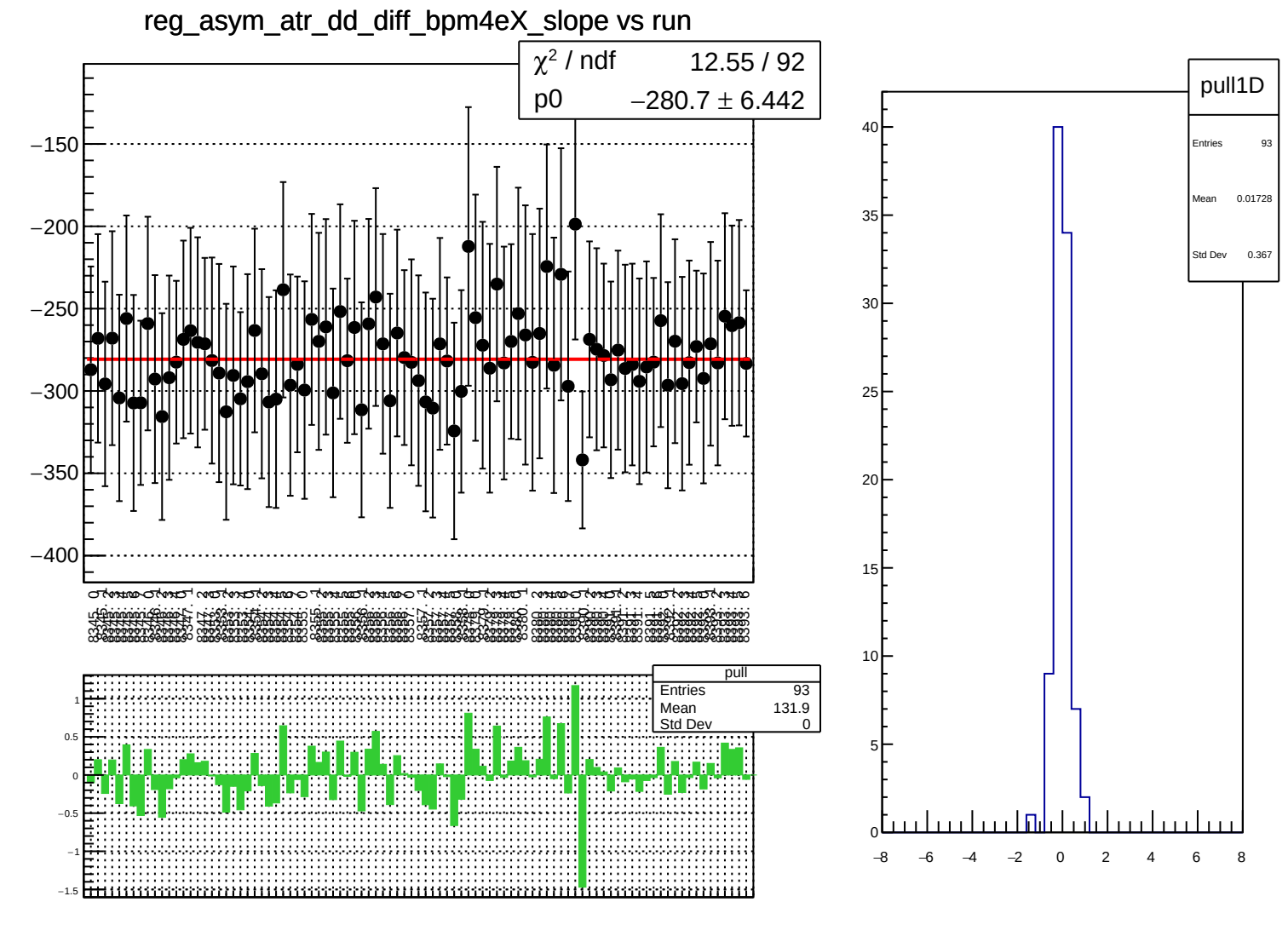

pull1D
Entries 93
Mean −0.002694
Std Dev 0.288

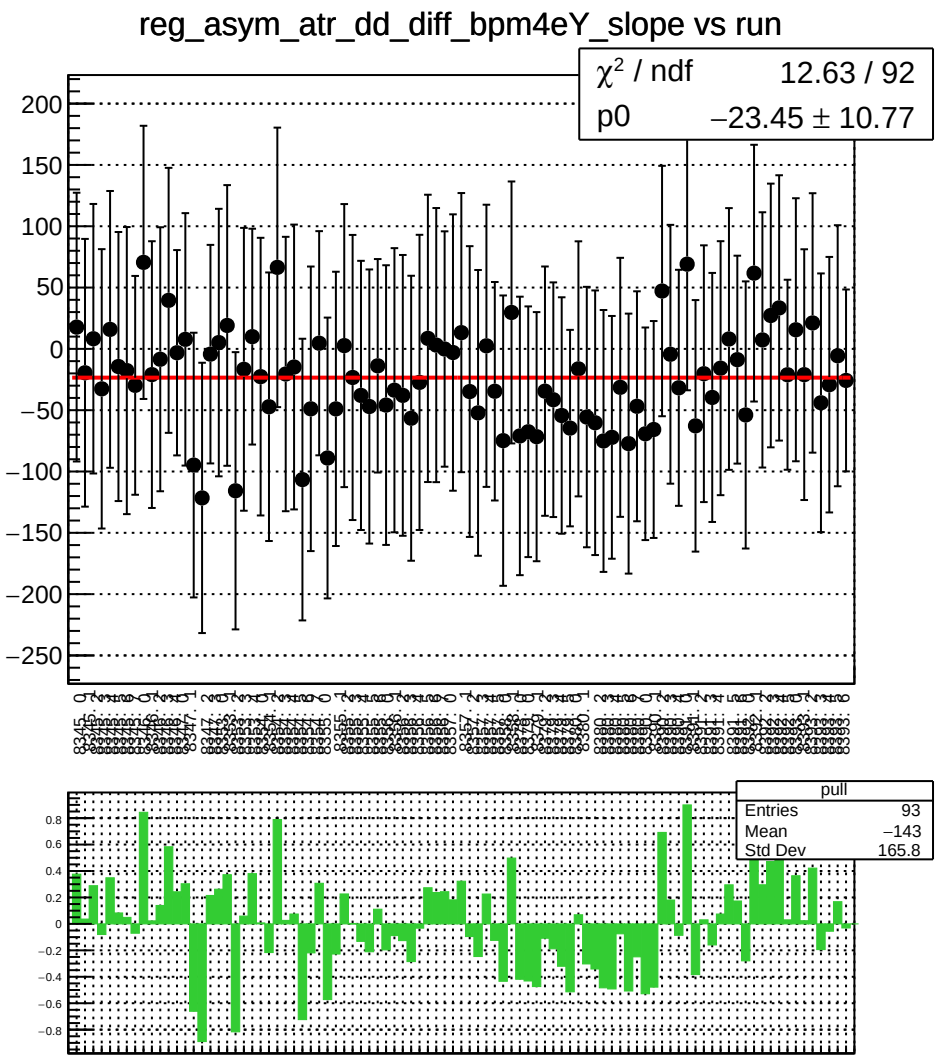

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 135.9 / 92
p0 −191.1 ± 0.7264
−170
−180
−190
−200
−210
pull
Entries 93
Mean −290.9
Std Dev 0
pull1D
Entries 93
Mean −0.0594
Std Dev 1.208

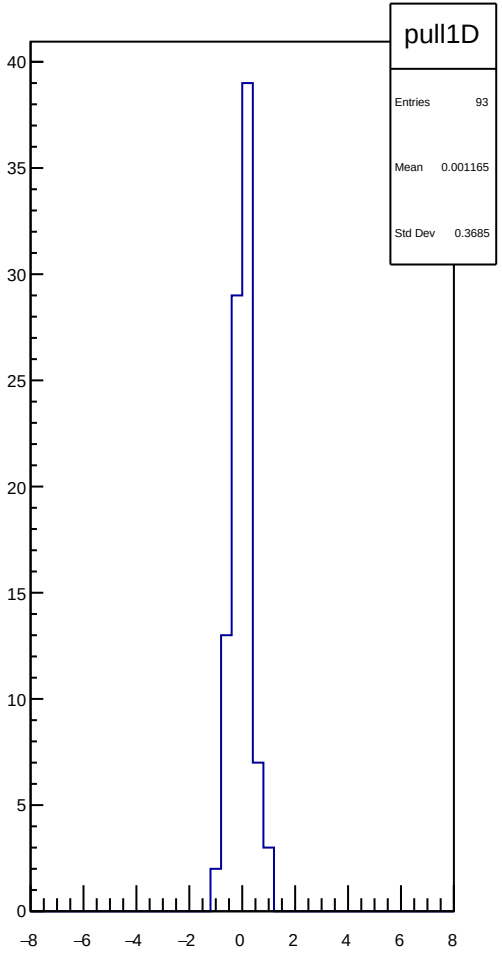

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 14.99 / 92
p0 225.8 ± 5.872
pull
Entries 93
Mean 82.27
Std Dev 0
pull1D
Entries 93
Mean −0.03714
Std Dev 0.3997

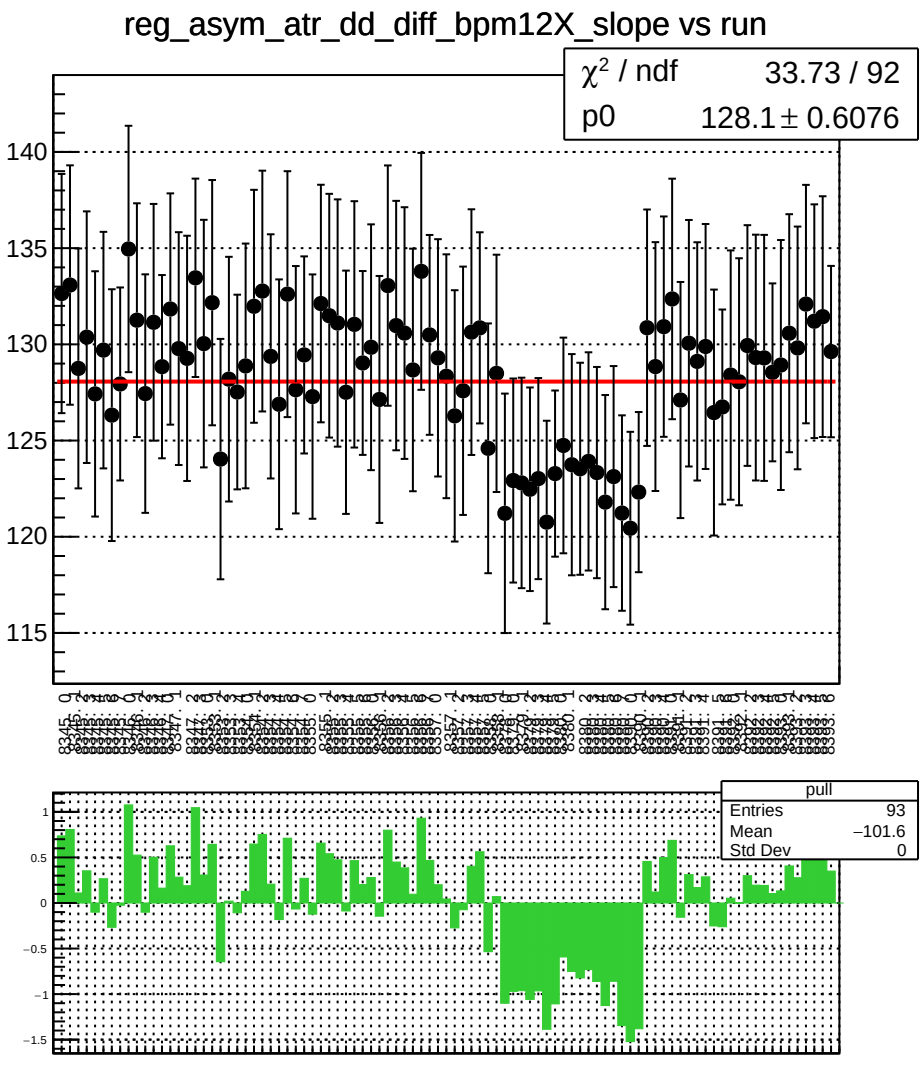

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.76 / 92
p0 −39.58 ± 10.17
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 93
Mean −21.89
Std Dev 58.13
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

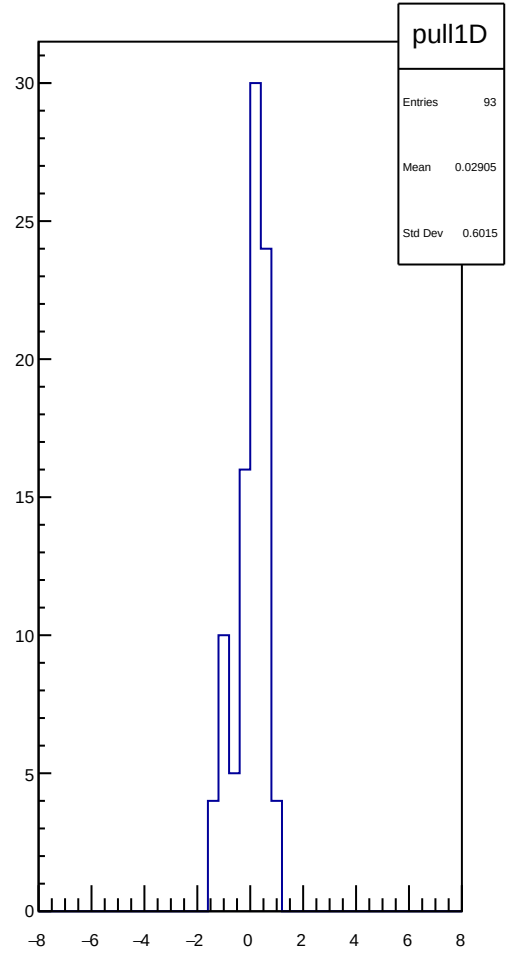

pull1D
Entries 93
Mean −0.01116
Std Dev 0.3983
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

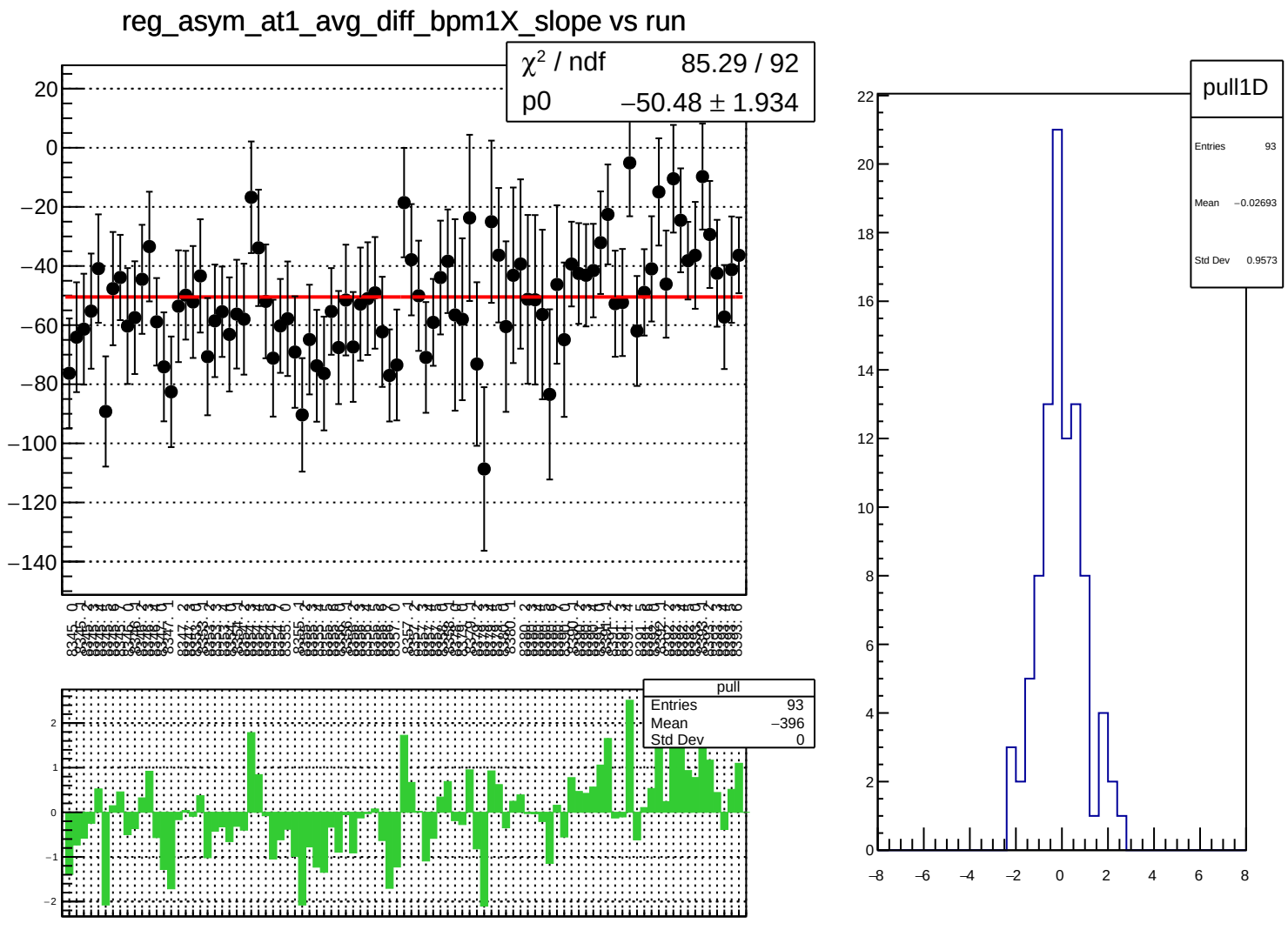

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 12.55 / 92
p0 −280.7 ± 6.442
pull
Entries 93
Mean 131.9
Std Dev 0
pull1D
Entries 93
Mean 0.01728
Std Dev 0.367

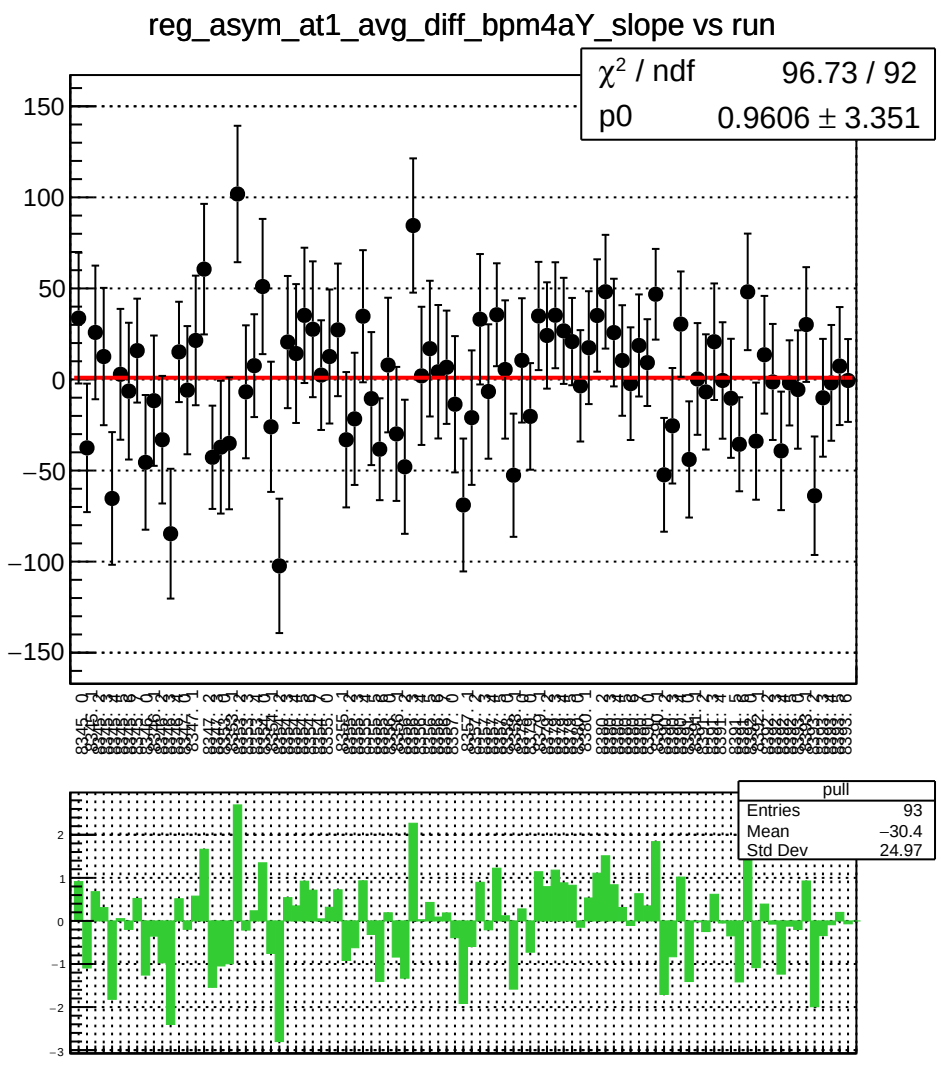

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.63 / 92
p0 −23.45 ± 10.77
pull
Entries 93
Mean −143
Std Dev 165.8

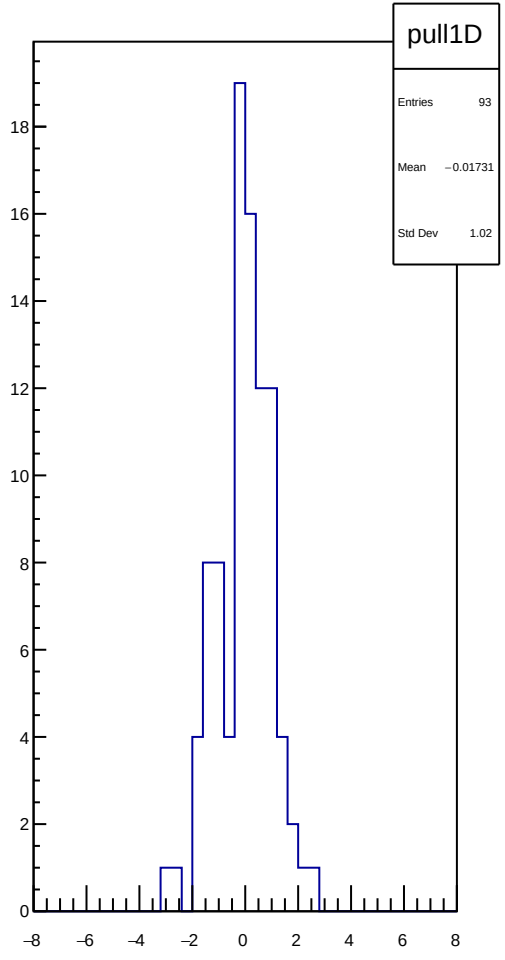

pull1D
Entries 93
Mean 0.001165
Std Dev 0.3685

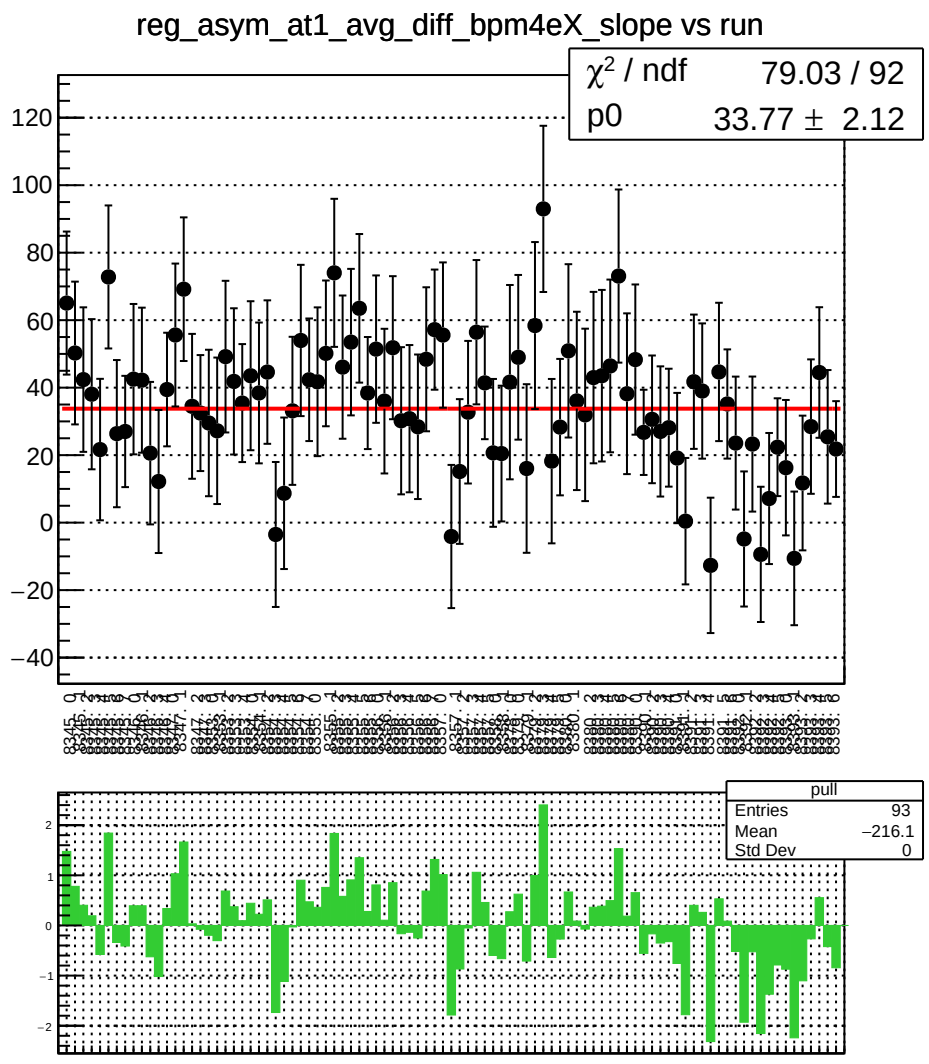

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 33.73 / 92
p0 128.1 ± 0.6076
pull
Entries 93
Mean −101.6
Std Dev 0

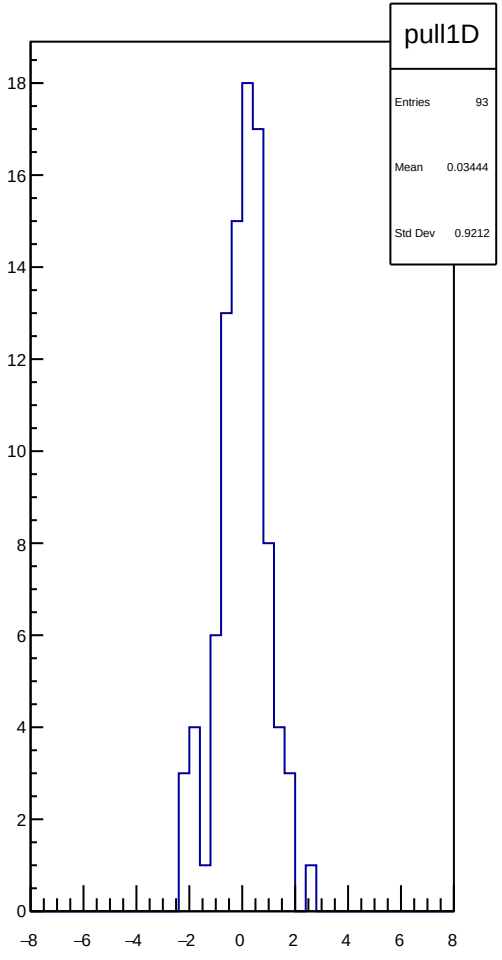

pull1D
Entries 93
Mean 0.02905
Std Dev 0.6015

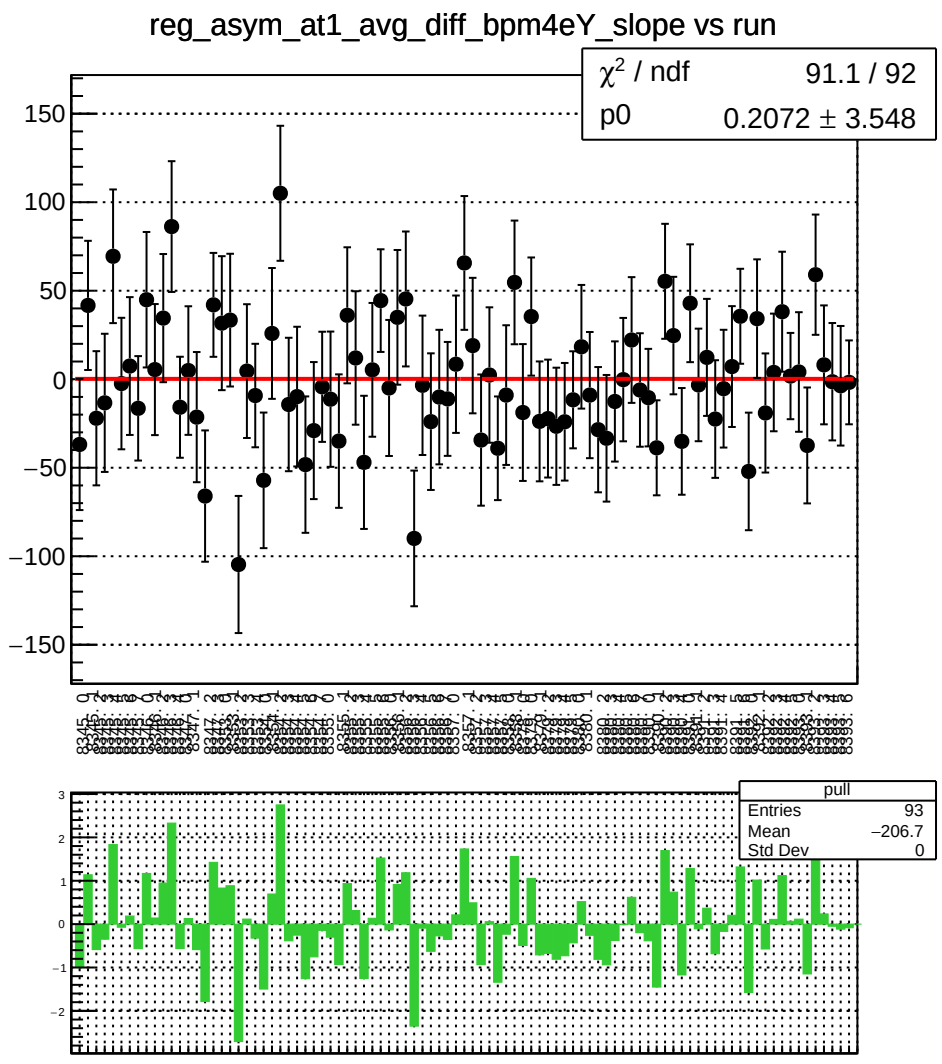

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 85.29 / 92
p0 −50.48 ± 1.934
pull
Entries 93
Mean −396
Std Dev 0
pull1D
Entries 93
Mean −0.02693
Std Dev 0.9573

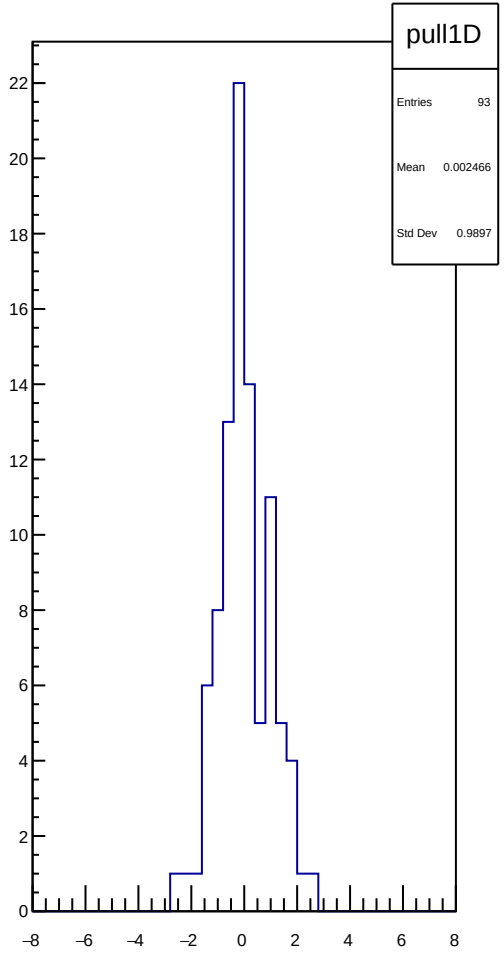

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 96.73 / 92
p0 0.9606 ± 3.351
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean −30.4
Std Dev 24.97
2
1
0
−1
−2
−3

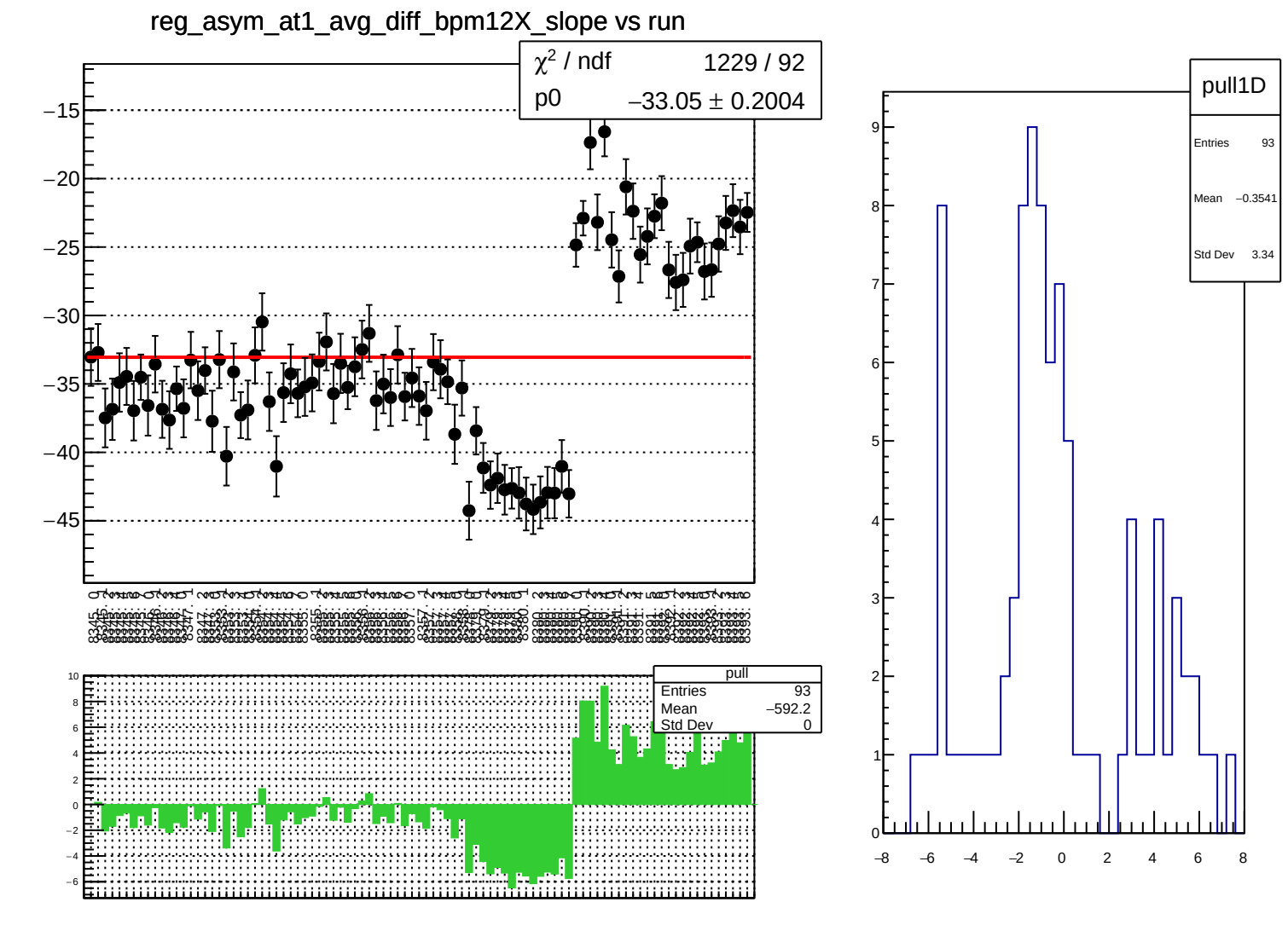

pull1D
Entries 93
Mean −0.01731
Std Dev 1.02
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

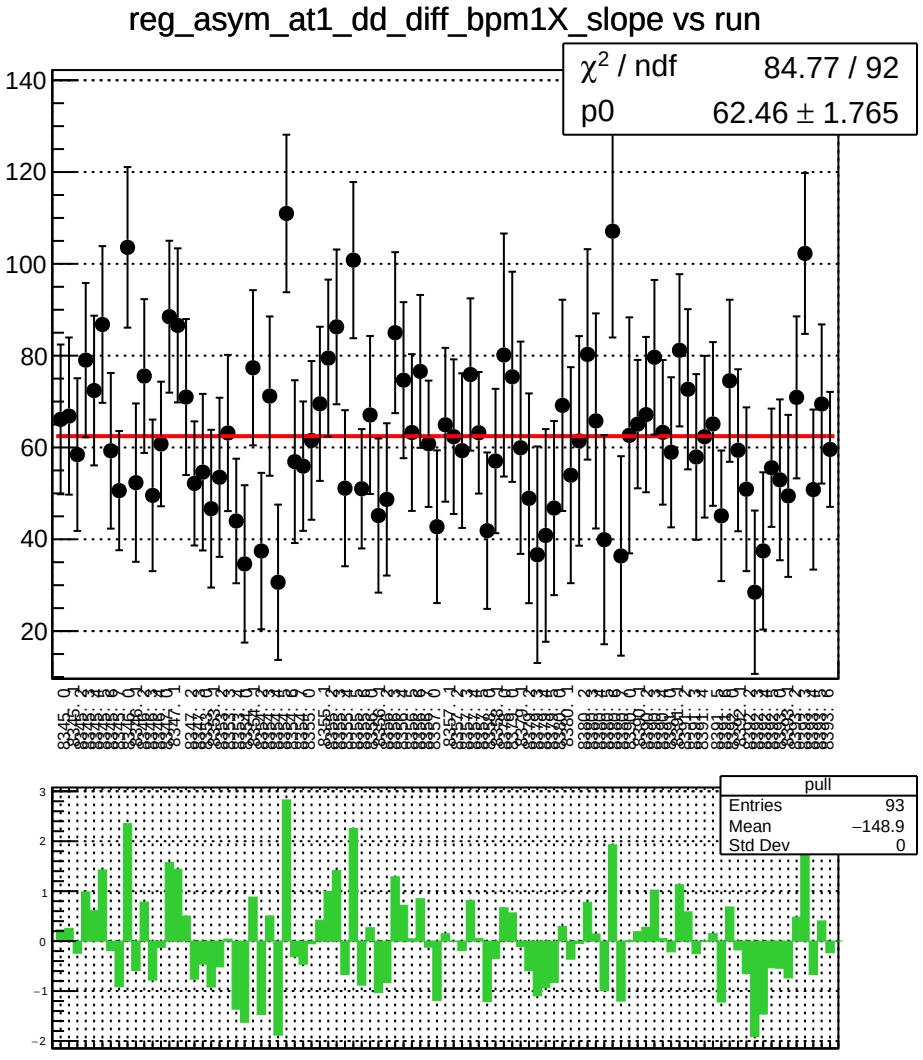

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 79.03 / 92
p0 33.77 ± 2.12
pull
Entries 93
Mean −216.1
Std Dev 0

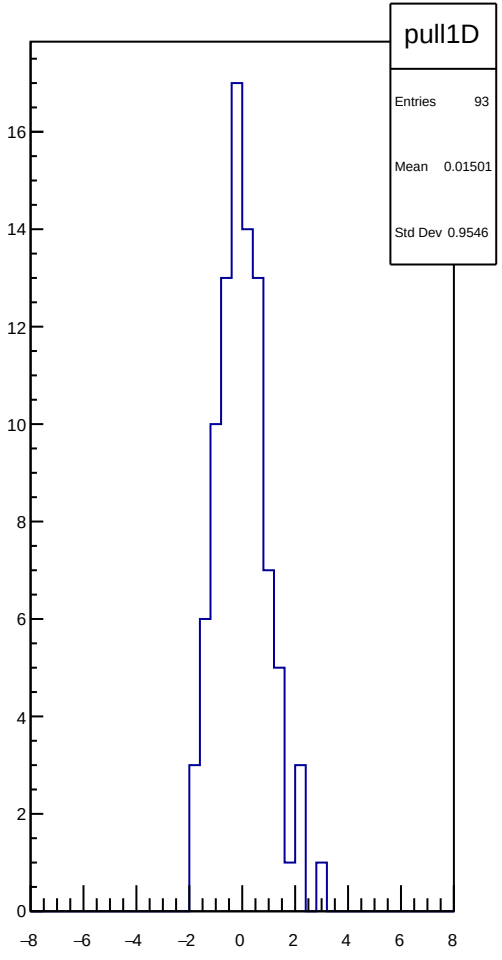

pull1D
Entries 93
Mean 0.03444
Std Dev 0.9212

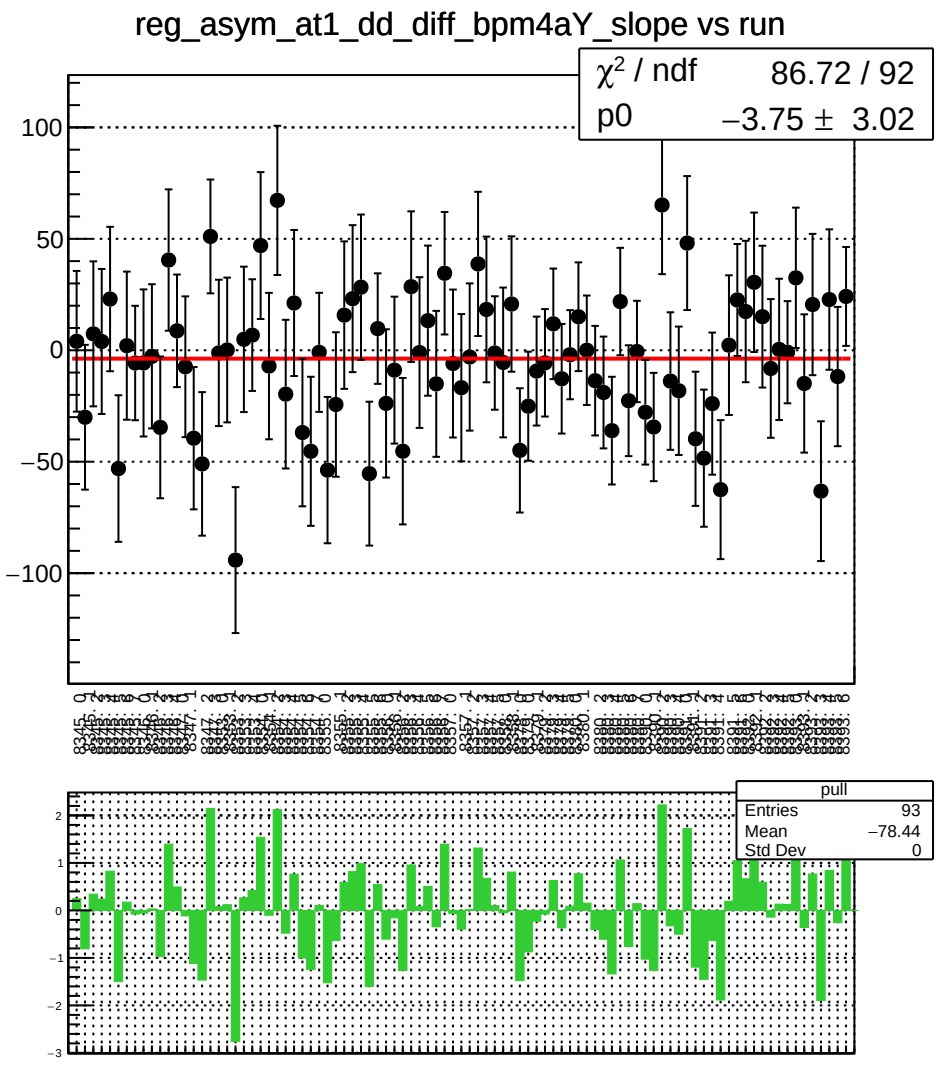

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 91.1 / 92
p0 0.2072 ± 3.548
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean −206.7
Std Dev 0
3
2
1
0
−1
−2

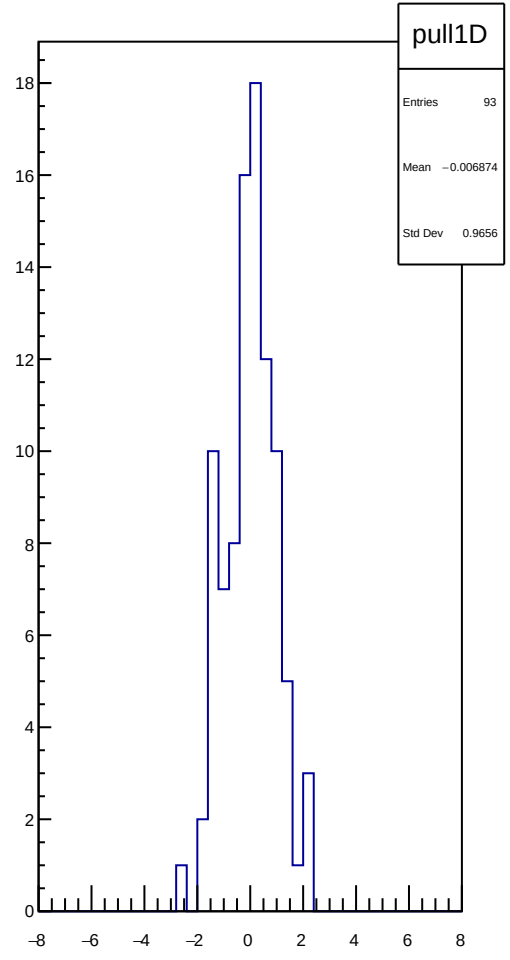

pull1D
Entries 93
Mean 0.002466
Std Dev 0.9897
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

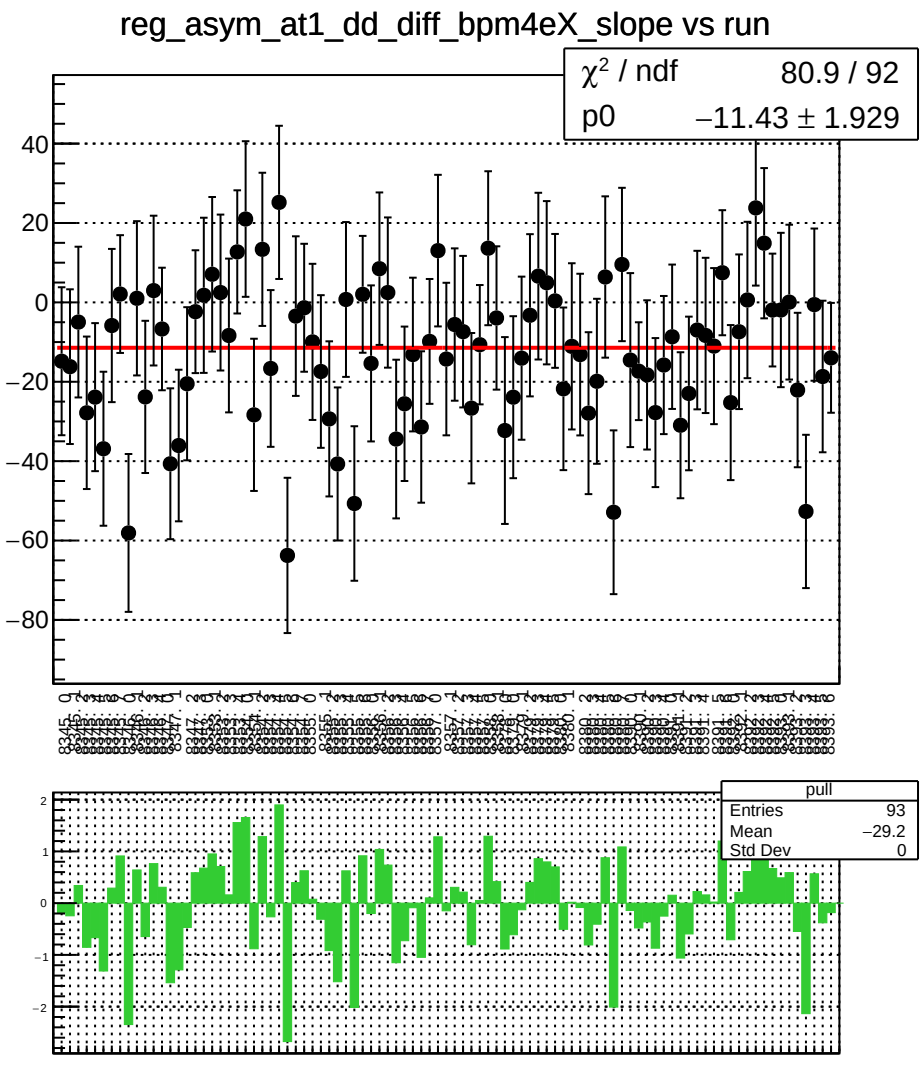

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 1229 / 92
p0 −33.05 ± 0.2004
pull
Entries 93
Mean −592.2
Std Dev 0
pull1D
Entries 93
Mean −0.3541
Std Dev 3.34

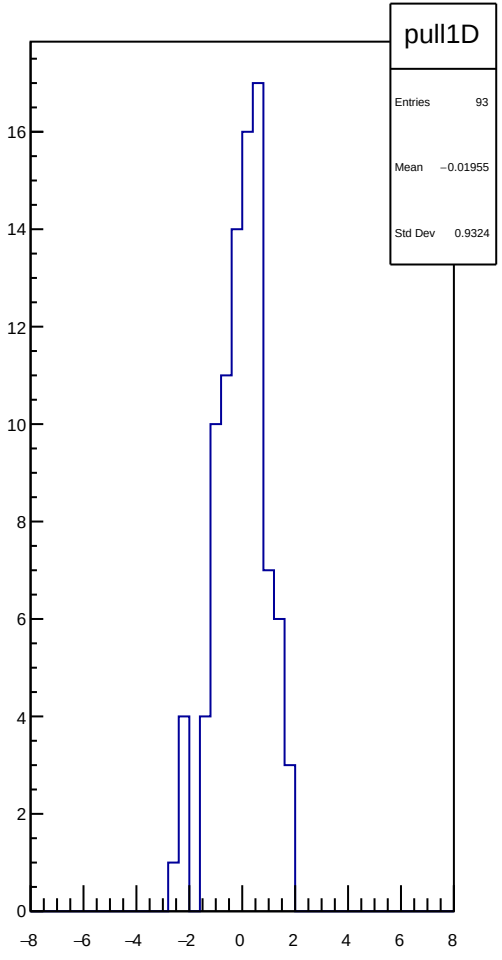

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ^2 / ndf 84.77 / 92
p0 62.46 ± 1.765
pull
Entries 93
Mean −148.9
Std Dev 0

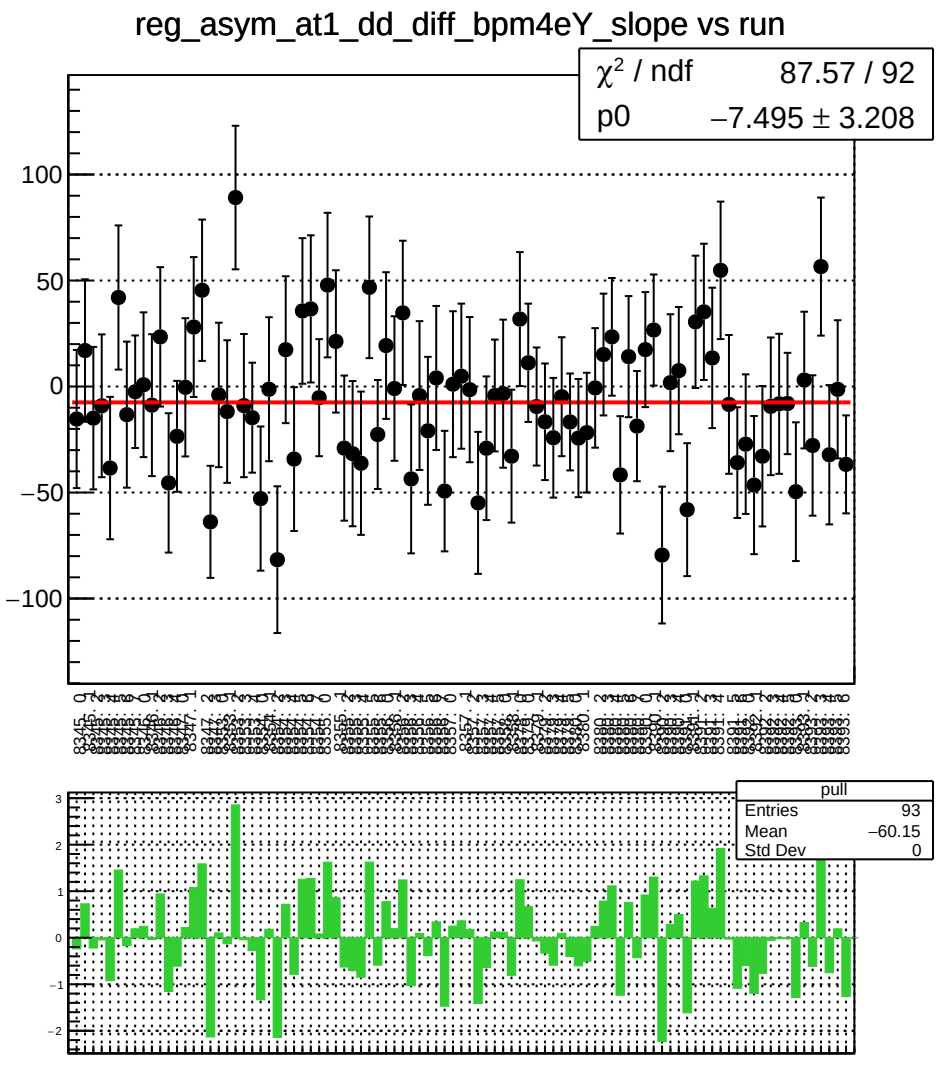

pull1D
Entries 93
Mean 0.01501
Std Dev 0.9546

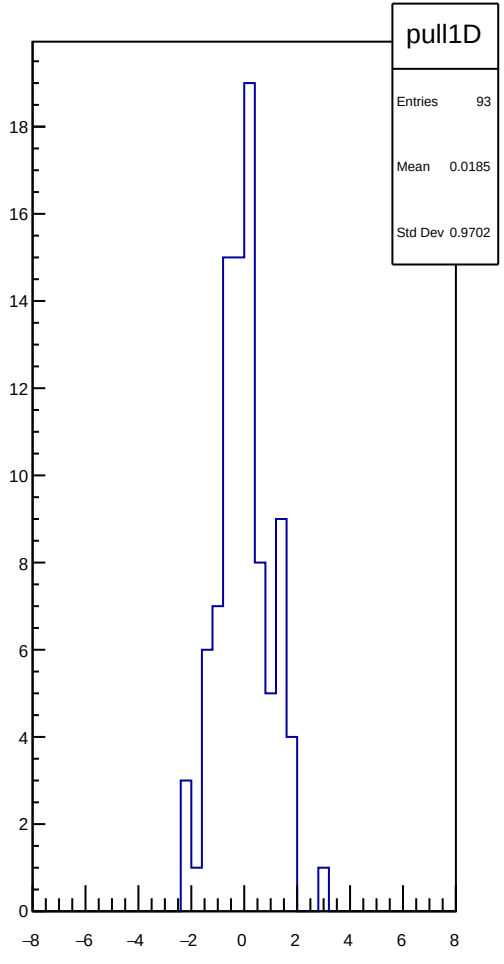

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 86.72 / 92
p0 −3.75 ± 3.02
100
50
0
−50
−100
pull
Entries 93
Mean −78.44
Std Dev 0
2
1
0
−1
−2
−3

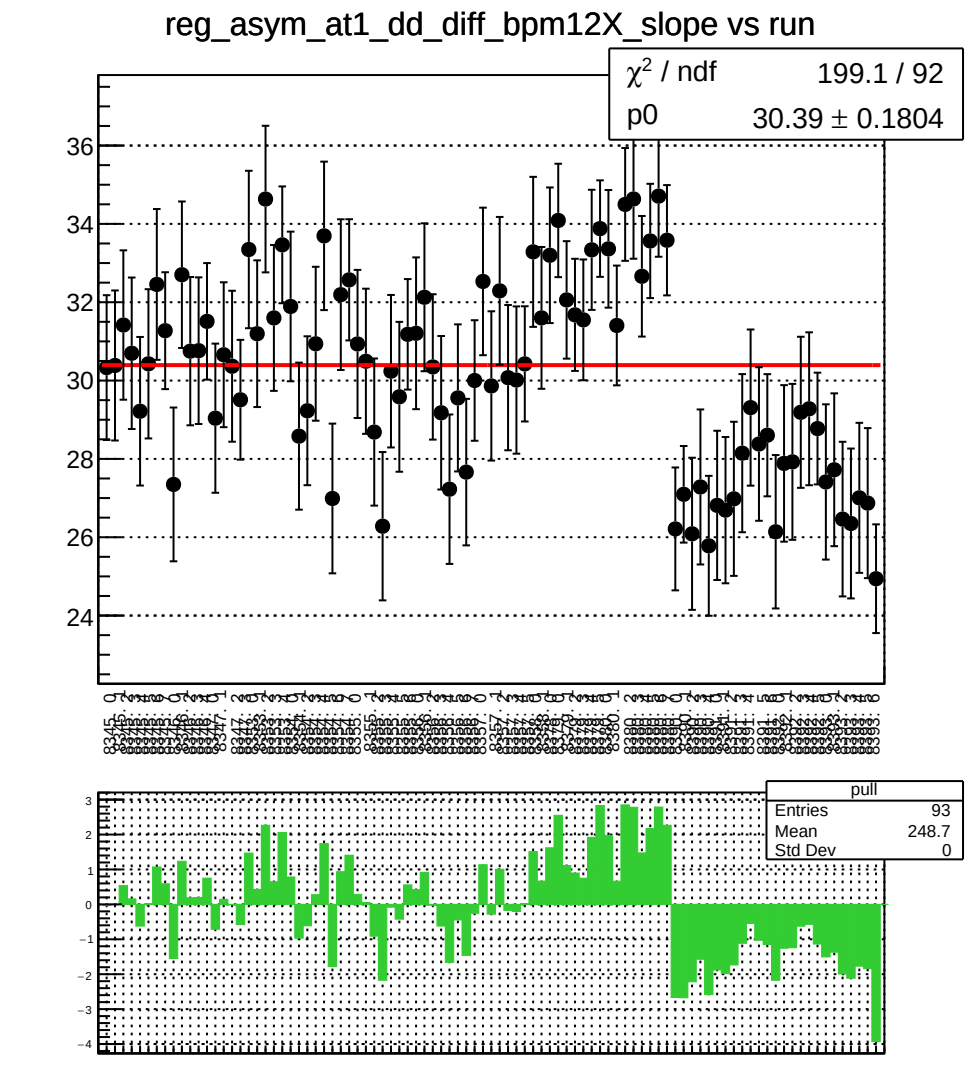

pull1D
Entries 93
Mean −0.006874
Std Dev 0.9656
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

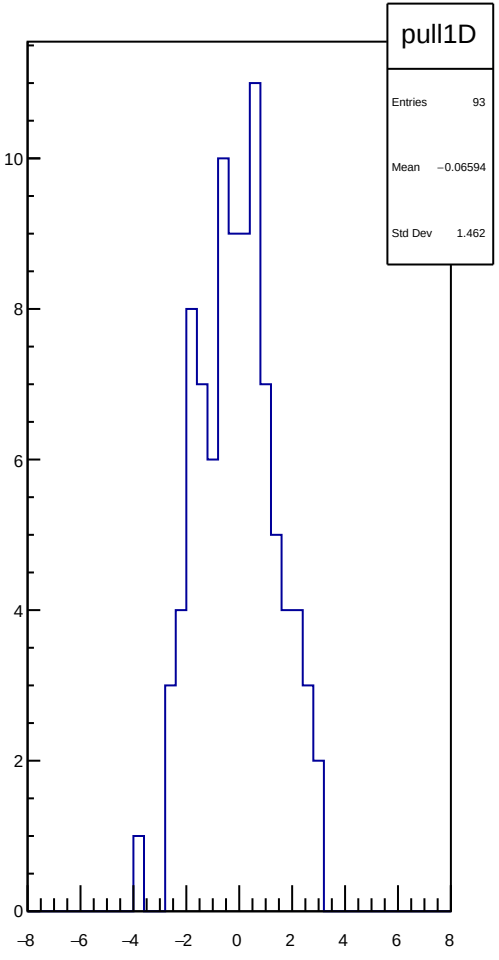

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 80.9 / 92
p0 −11.43 ± 1.929
pull
Entries 93
Mean −29.2
Std Dev 0

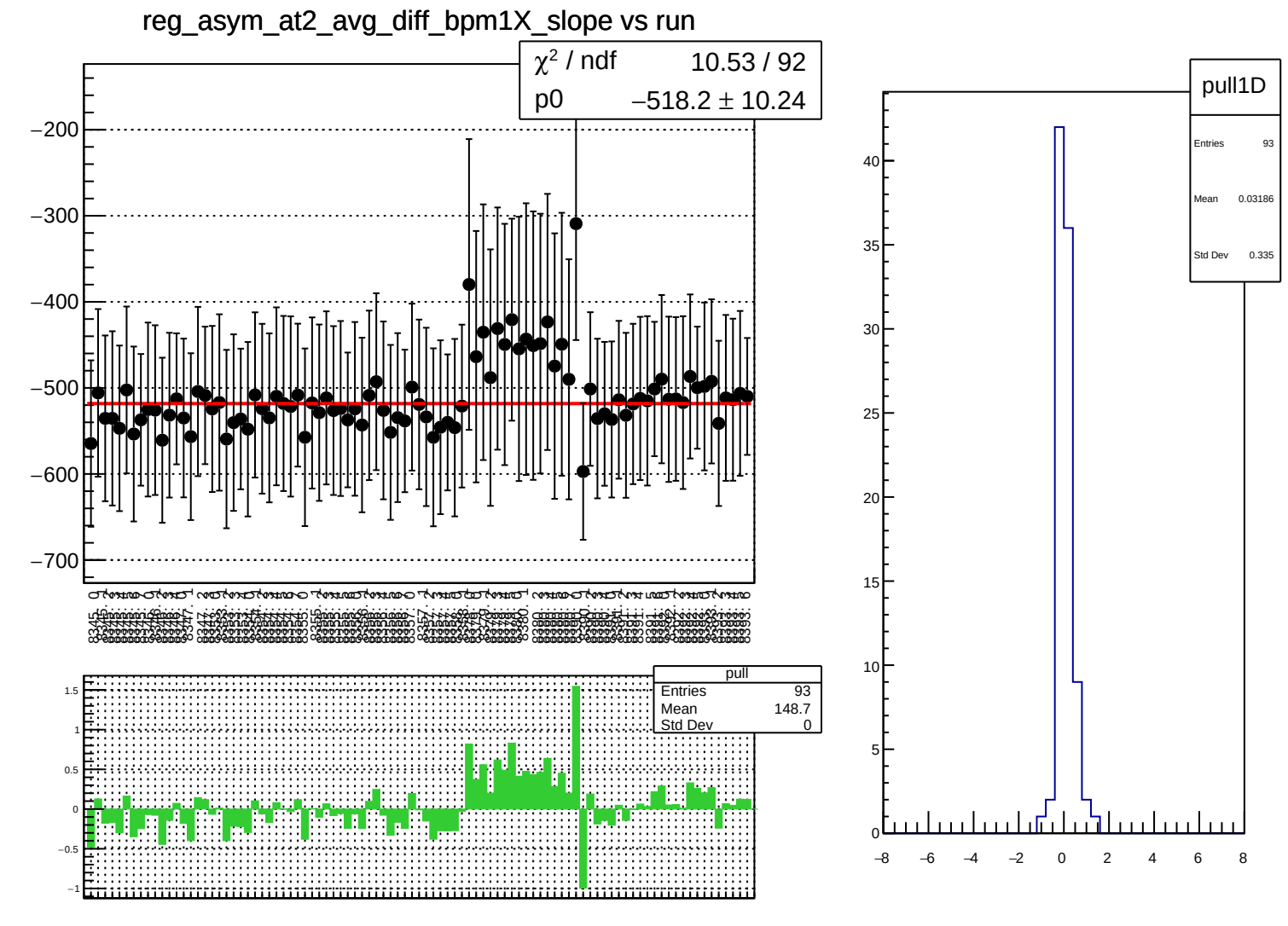

pull1D
Entries 93
Mean −0.01955
Std Dev 0.9324

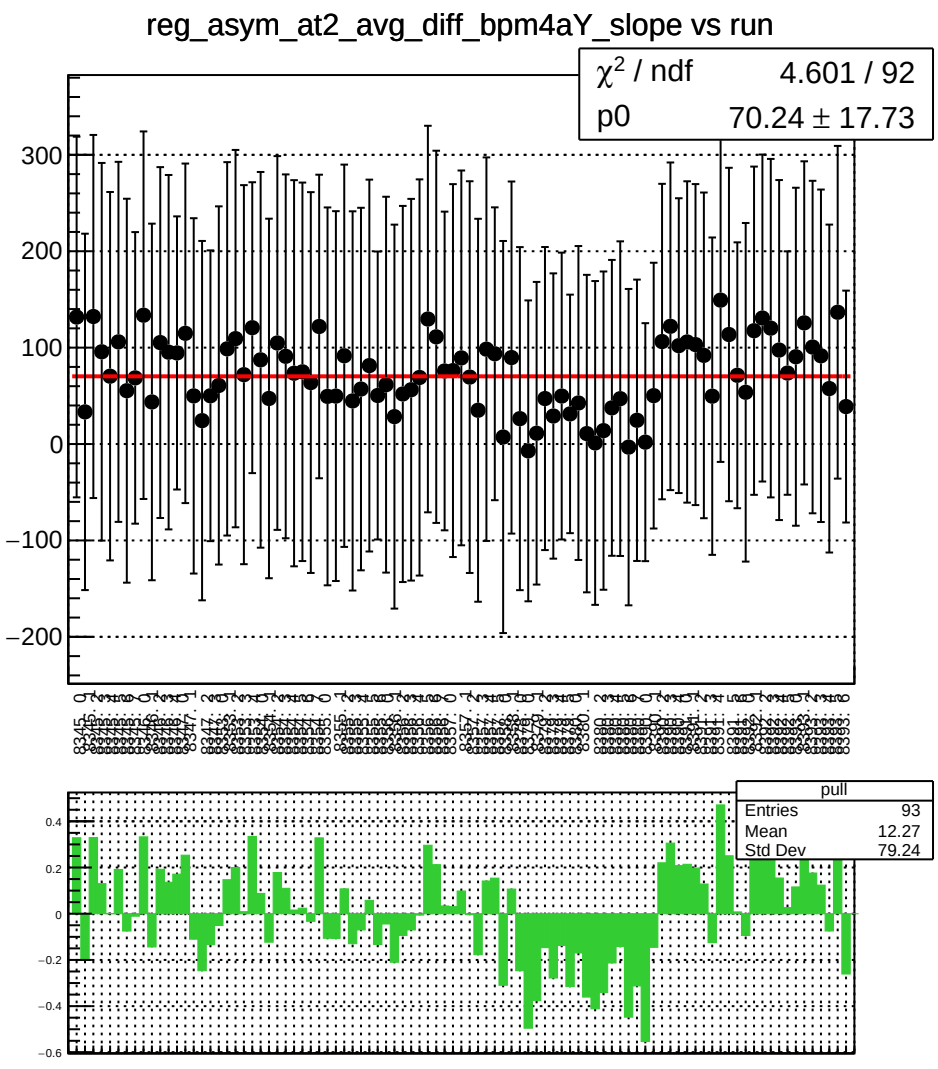

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 87.57 / 92
p0 −7.495 ± 3.208
100
50
0
−50
−100
pull
Entries 93
Mean −60.15
Std Dev 0
3
2
1
0
−1
−2

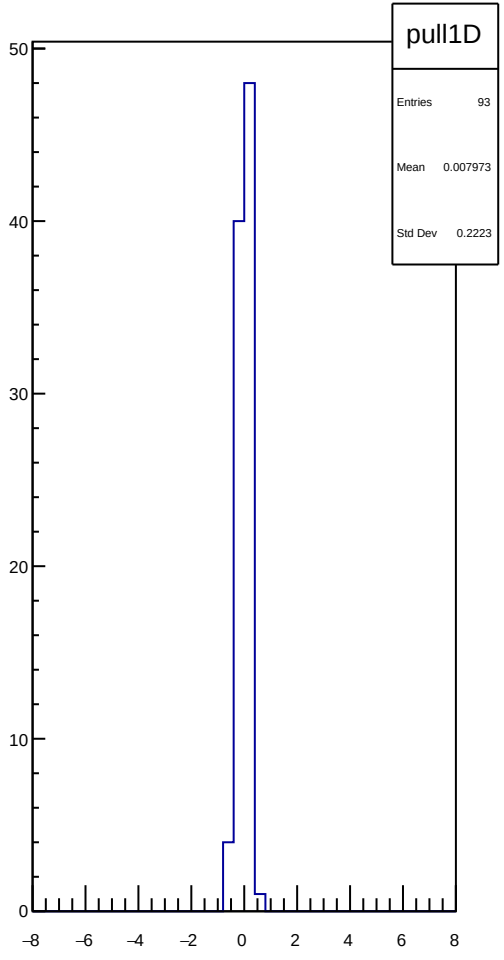

pull1D
Entries 93
Mean 0.0185
Std Dev 0.9702
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

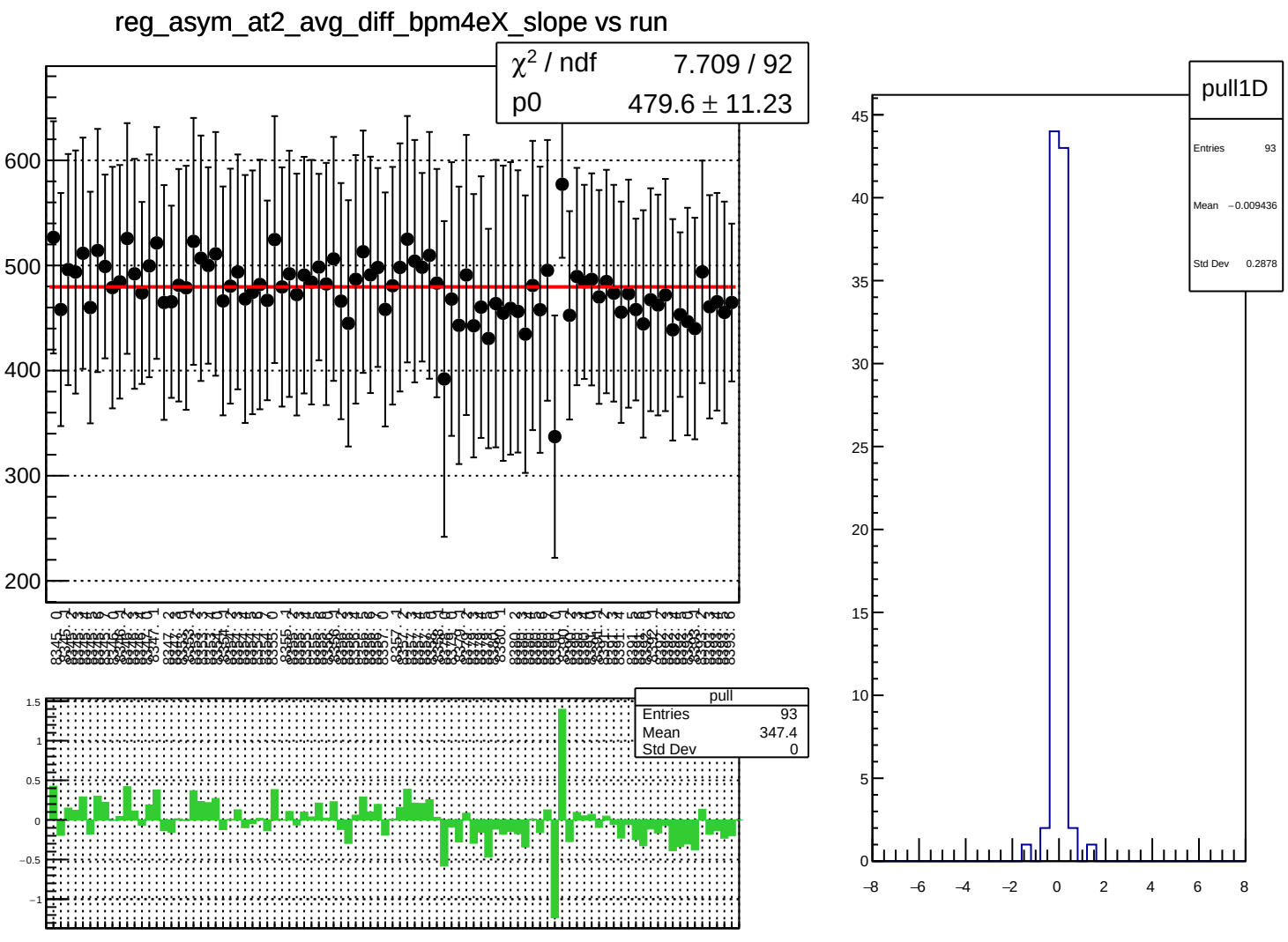

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 199.1 / 92
p0 30.39 ± 0.1804
pull
Entries 93
Mean 248.7
Std Dev 0

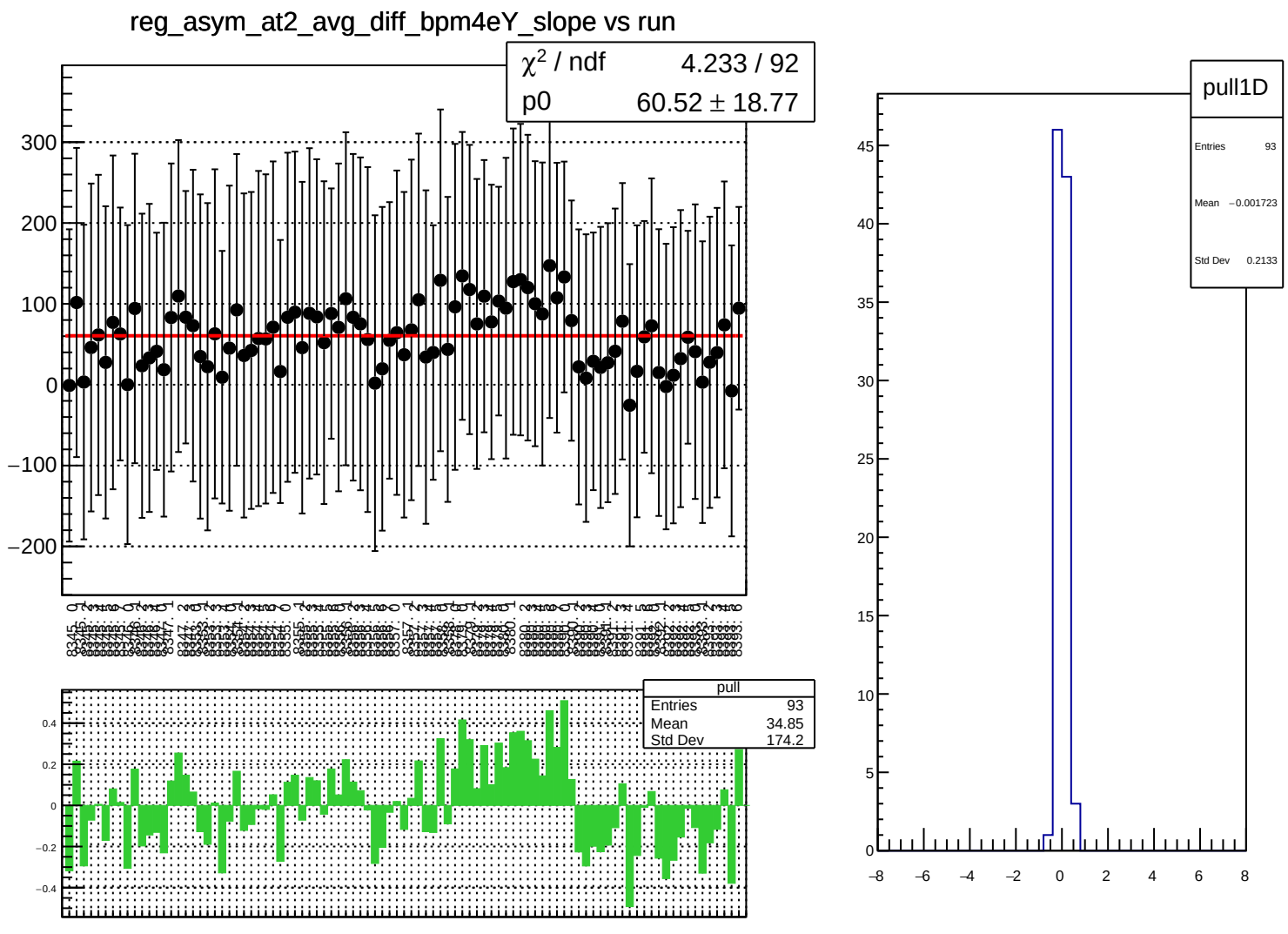

pull1D
Entries 93
Mean −0.06594
Std Dev 1.462

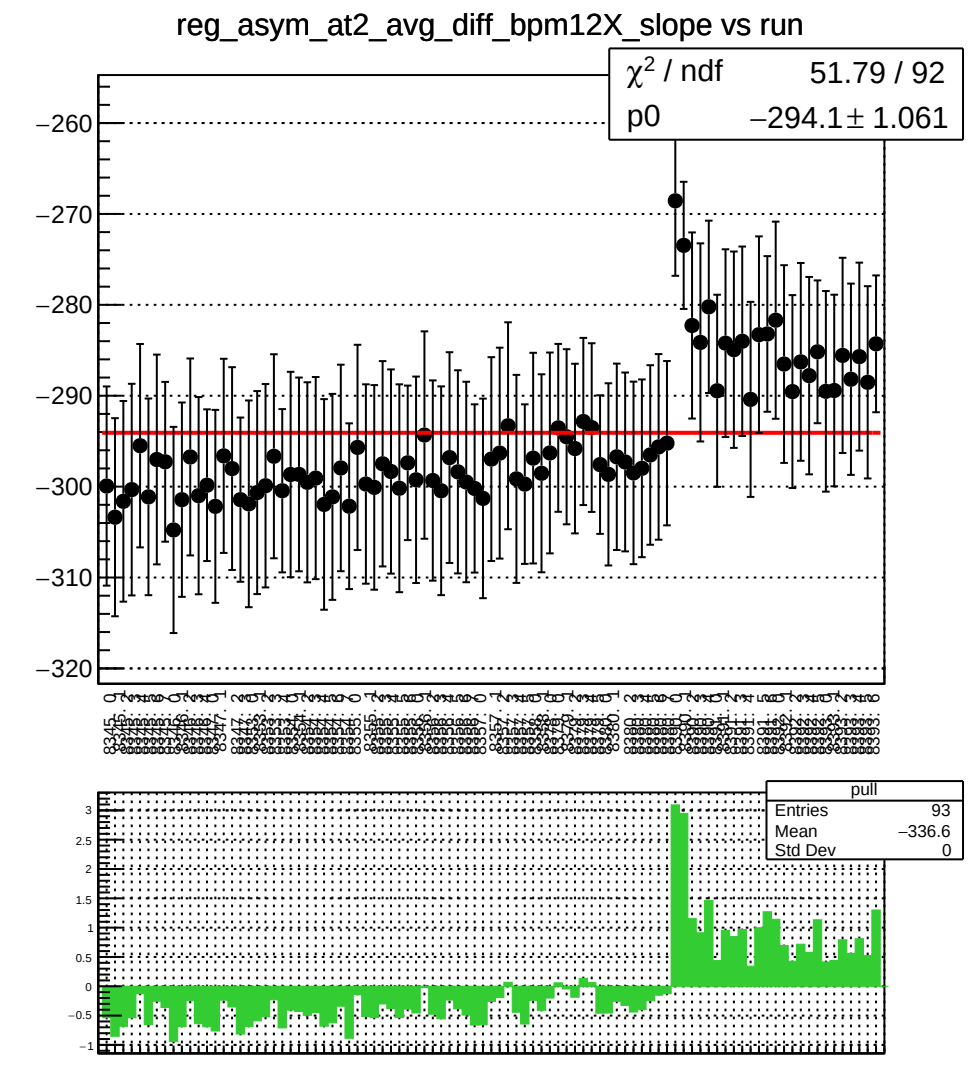

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 10.53 / 92
p0 −518.2 ± 10.24
pull
Entries 93
Mean 148.7
Std Dev 0
pull1D
Entries 93
Mean 0.03186
Std Dev 0.335

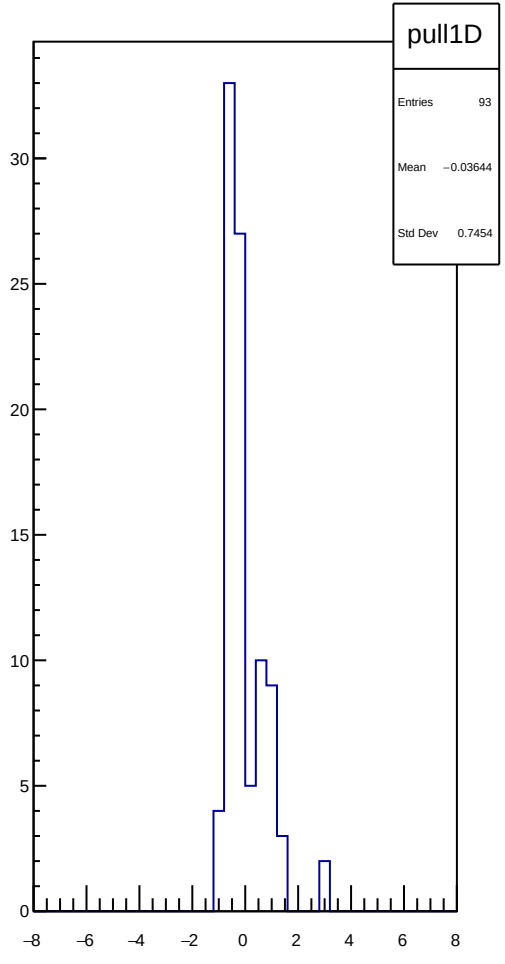

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.601 / 92
p0 70.24 ± 17.73
pull
Entries 93
Mean 12.27
Std Dev 79.24

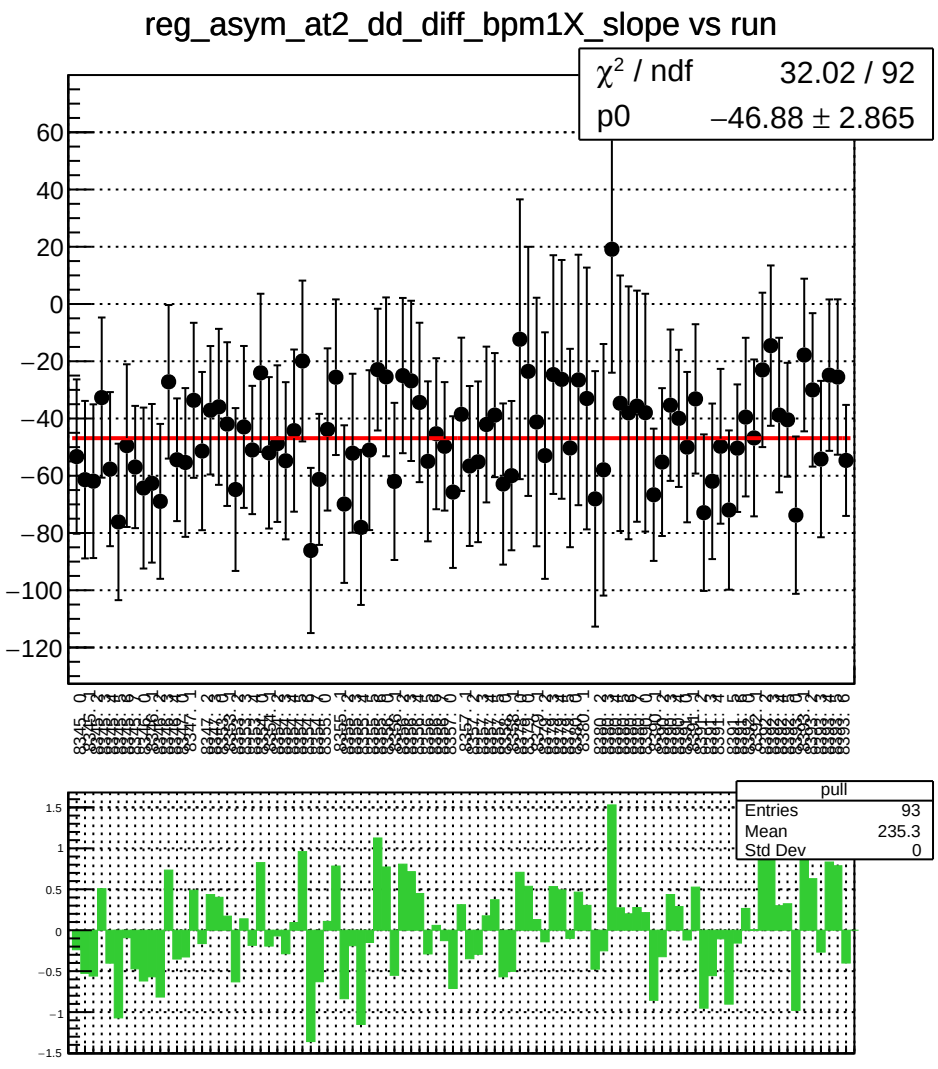

pull1D
Entries 93
Mean 0.007973
Std Dev 0.2223

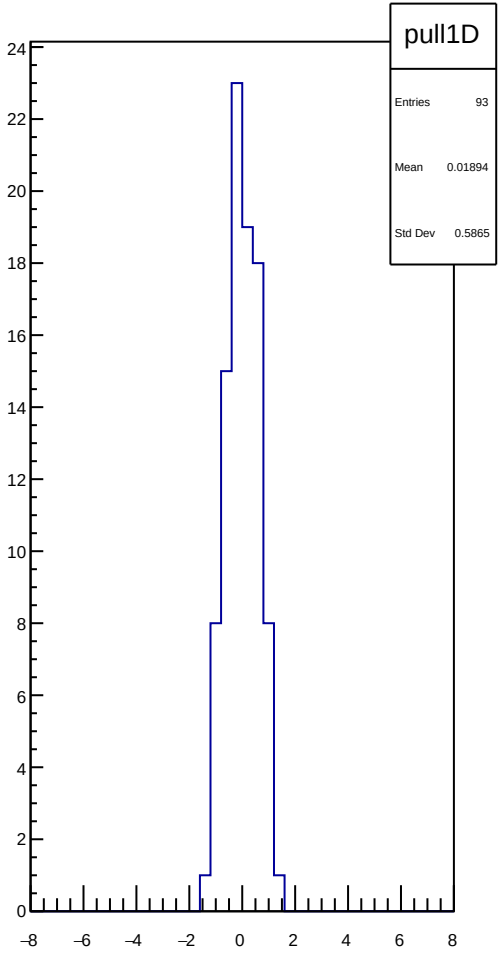

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 7.709 / 92
p0 479.6 ± 11.23
600
500
400
300
200
pull
Entries 93
Mean 347.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 93
Mean −0.009436
Std Dev 0.2878
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

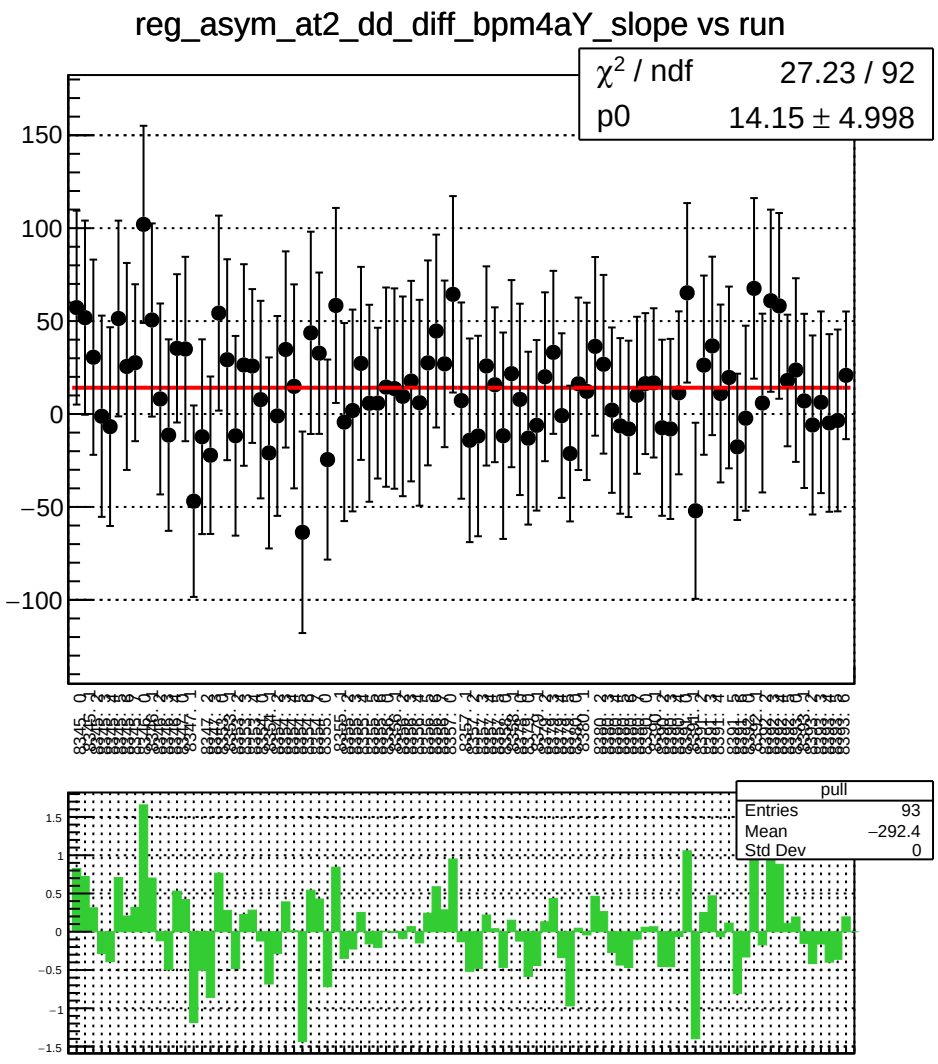

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.233 / 92
p0 60.52 ± 18.77
pull
Entries 93
Mean 34.85
Std Dev 174.2
pull1D
Entries 93
Mean −0.001723
Std Dev 0.2133

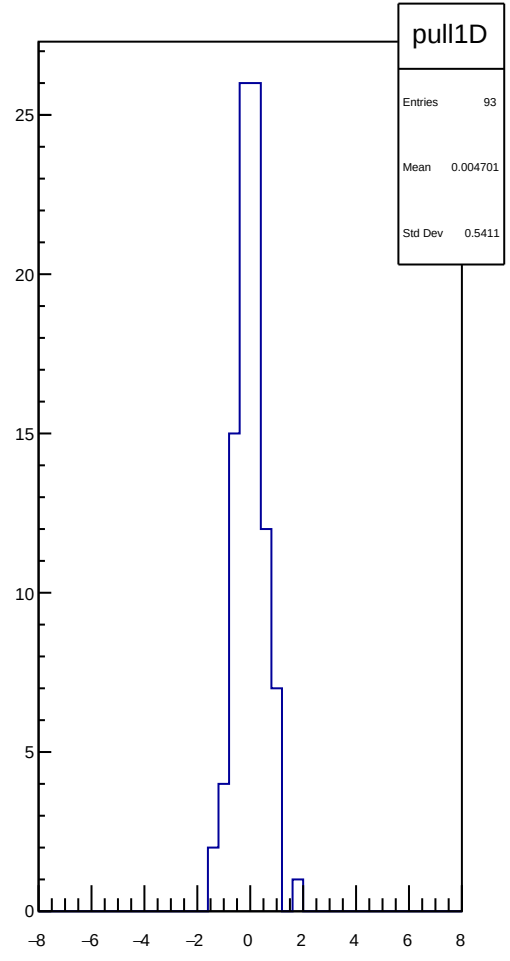

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 51.79 / 92
p0 −294.1 ± 1.061
−260
−270
−280
−290
−300
−310
−320
pull
Entries 93
Mean −336.6
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1

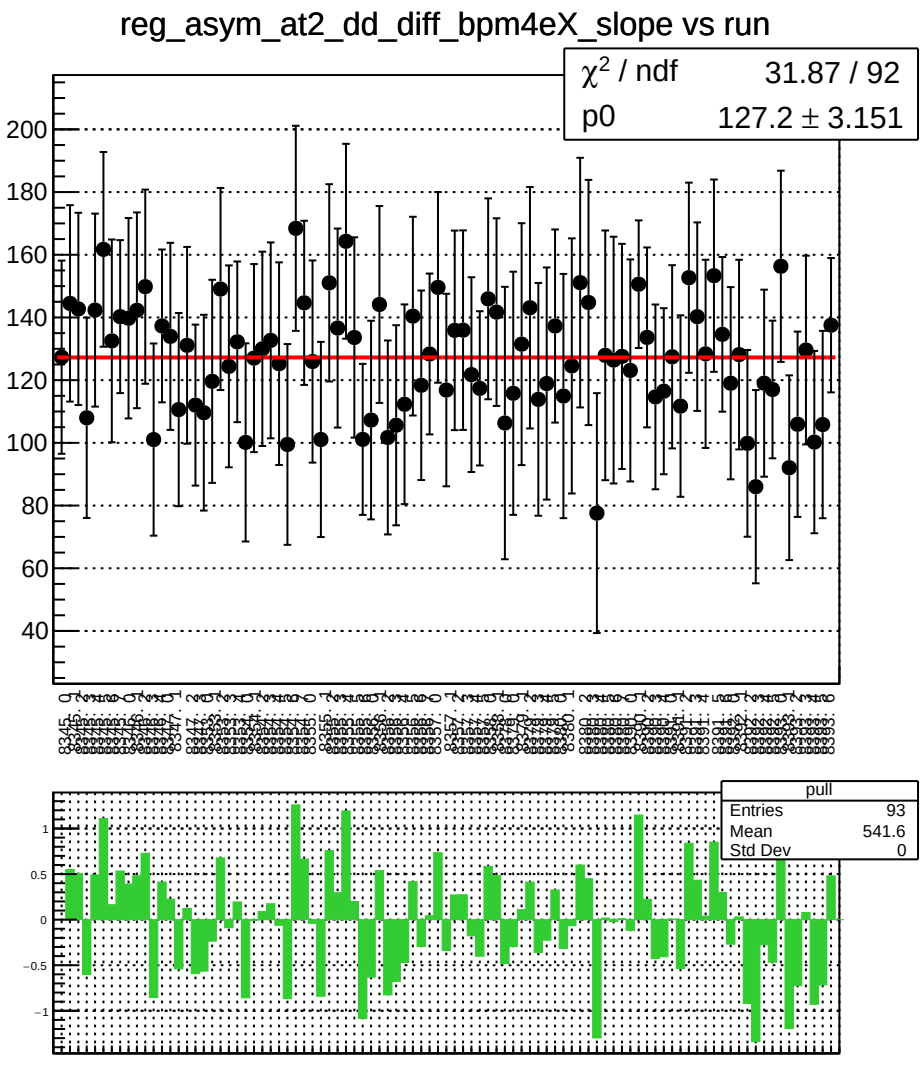

pull1D
Entries 93
Mean −0.03644
Std Dev 0.7454
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

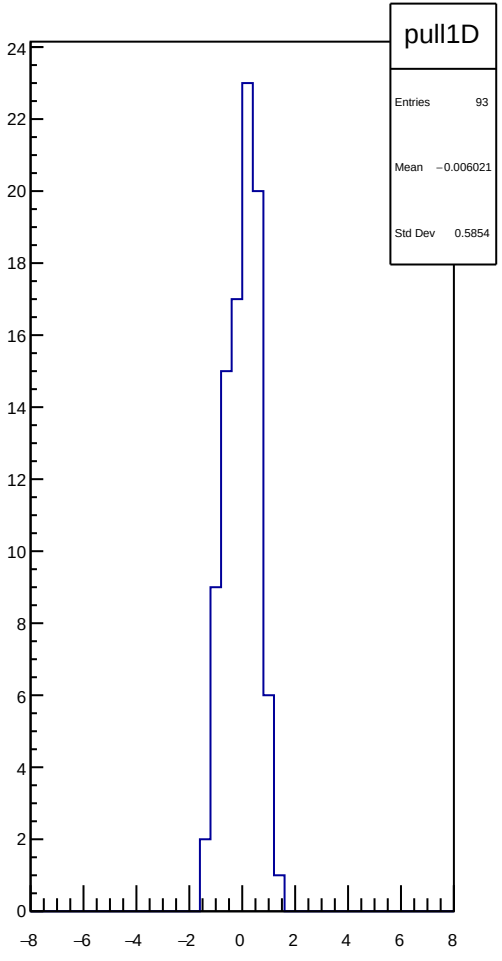

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 32.02 / 92
p0 −46.88 ± 2.865
pull
Entries 93
Mean 235.3
Std Dev 0

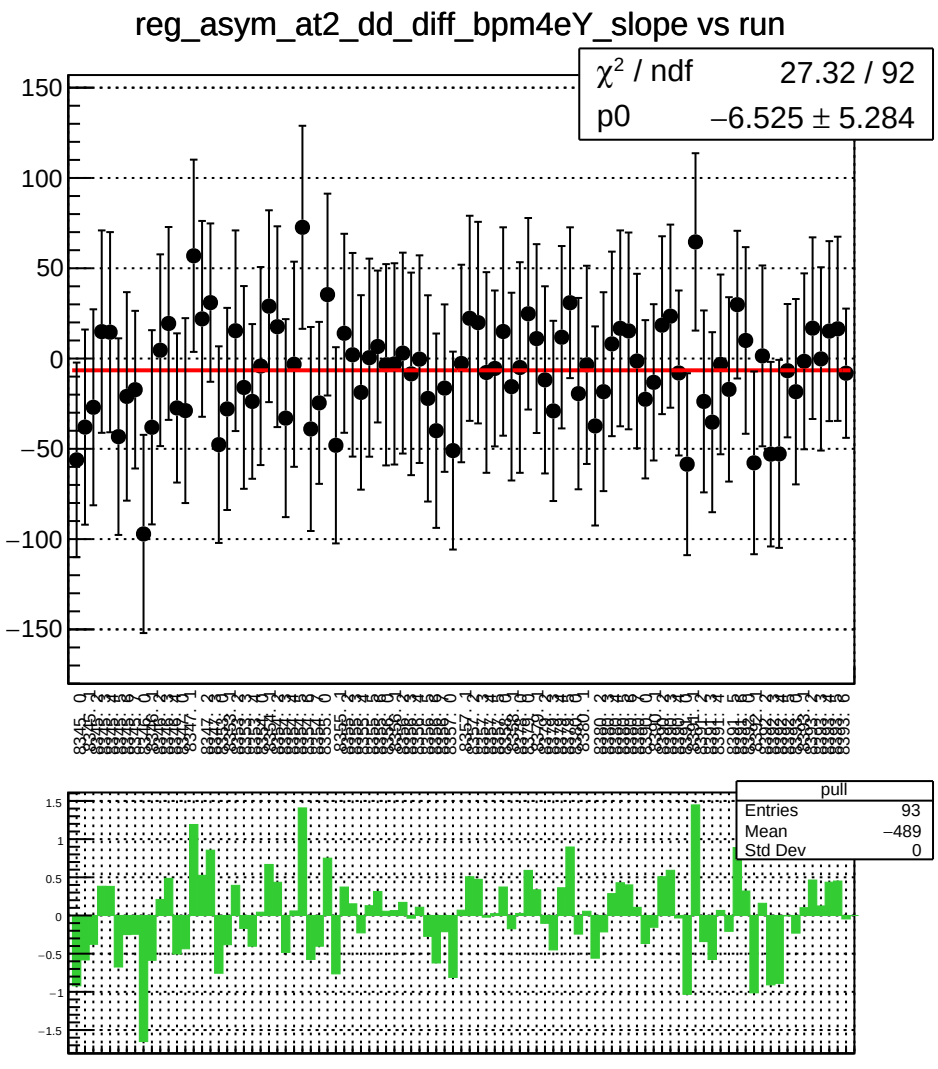

pull1D
Entries 93
Mean 0.01894
Std Dev 0.5865

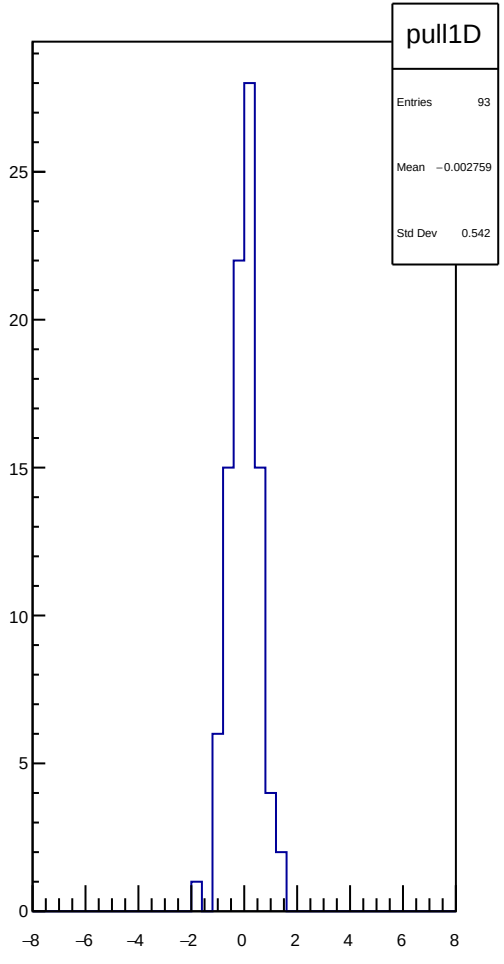

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 27.23 / 92
p0 14.15 ± 4.998
150
100
50
0
−50
−100
pull
Entries 93
Mean −292.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

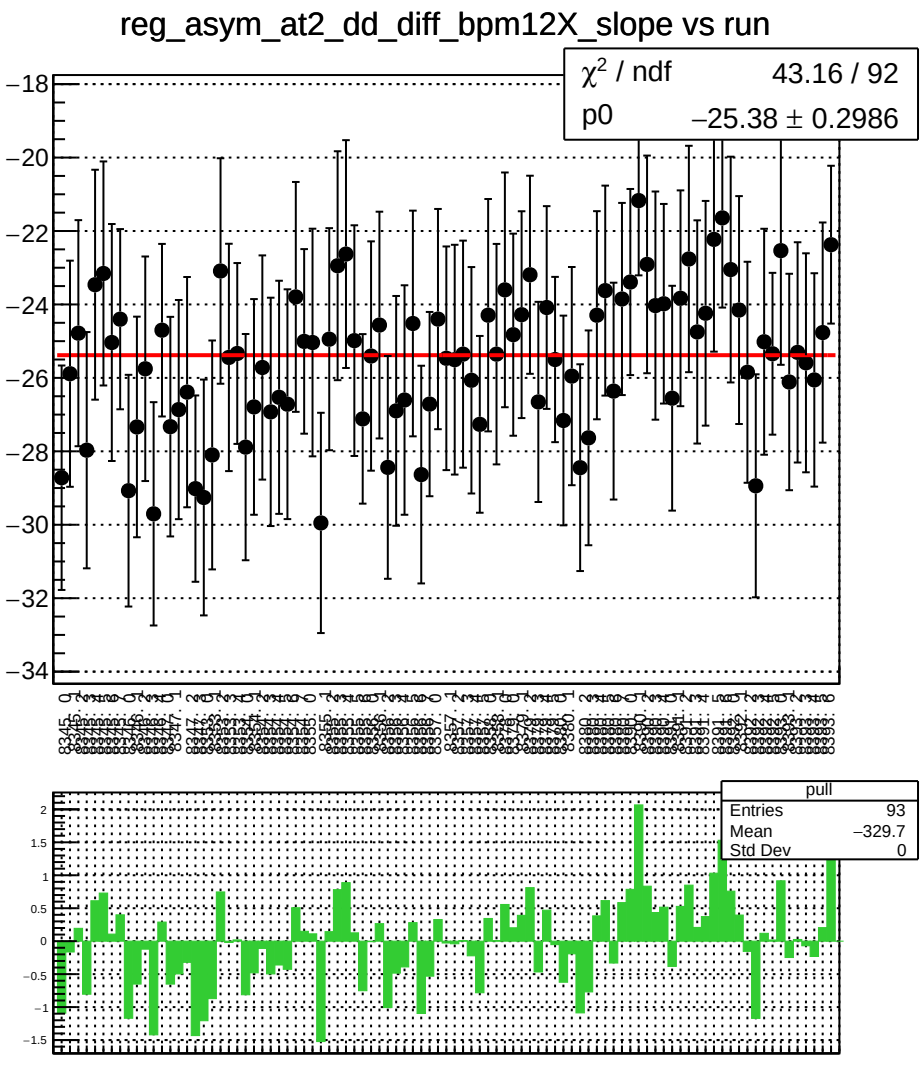

pull1D
Entries 93
Mean 0.004701
Std Dev 0.5411
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

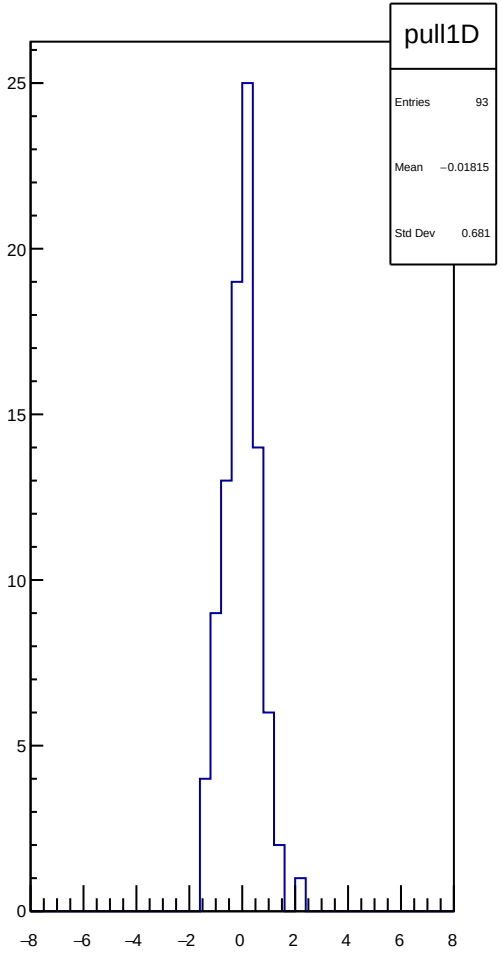

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 31.87 / 92
p0 127.2 ± 3.151
pull
Entries 93
Mean 541.6
Std Dev 0

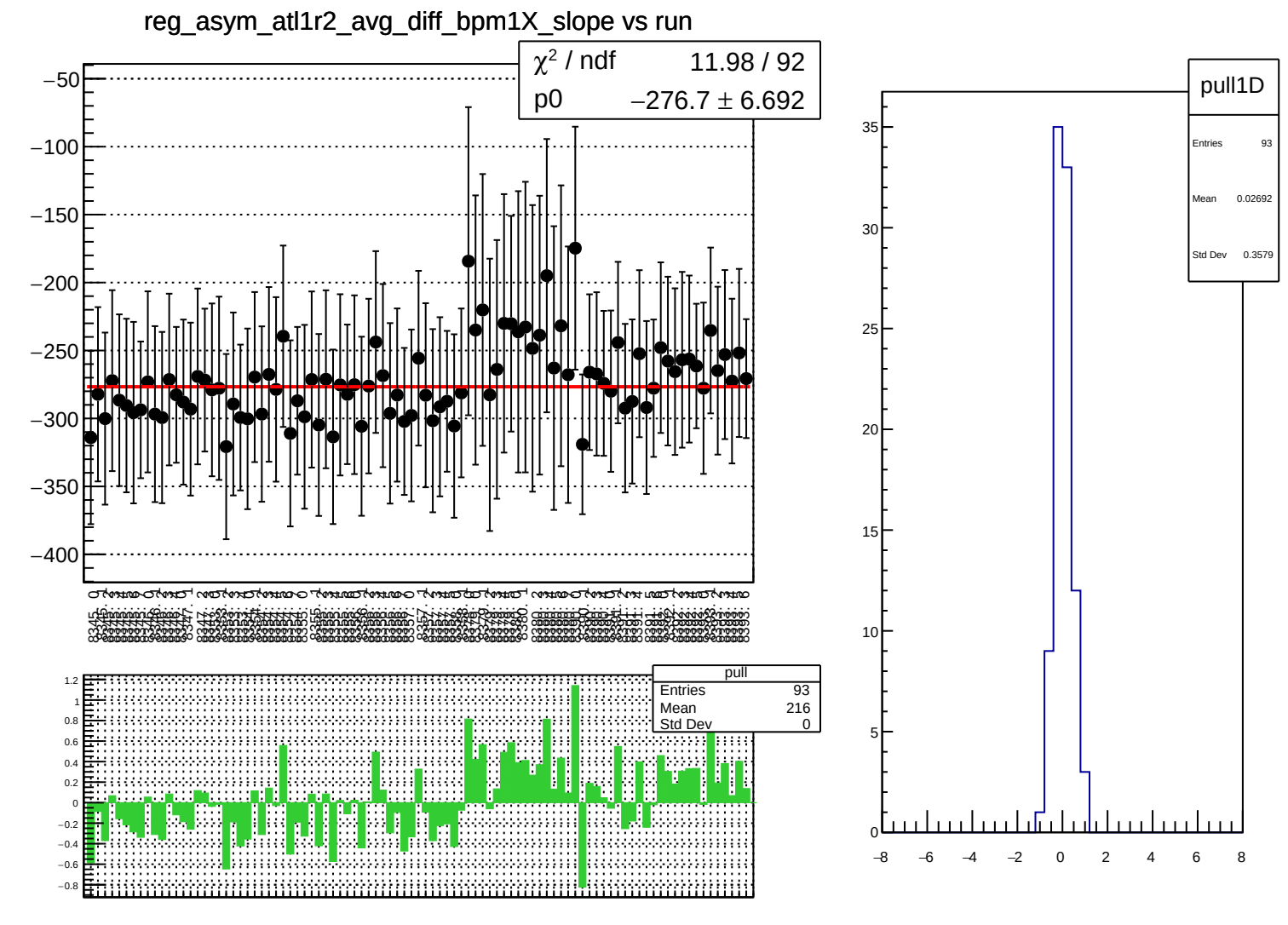

pull1D
Entries 93
Mean −0.006021
Std Dev 0.5854

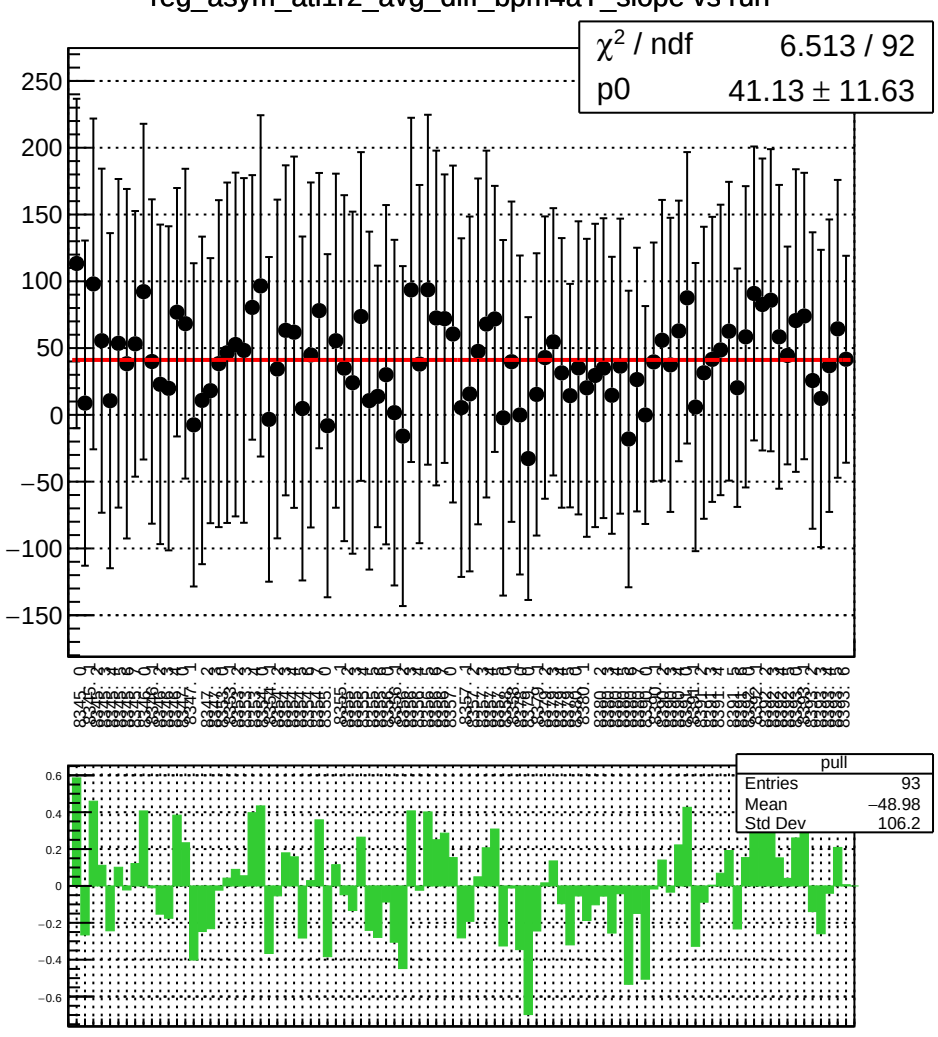

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 27.32 / 92
p0 −6.525 ± 5.284
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean −489
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

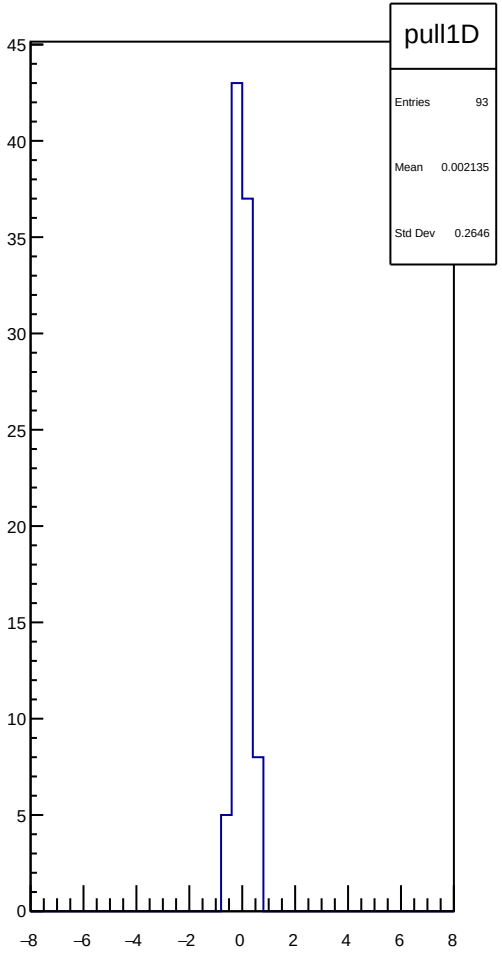

pull1D
Entries 93
Mean −0.002759
Std Dev 0.542
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

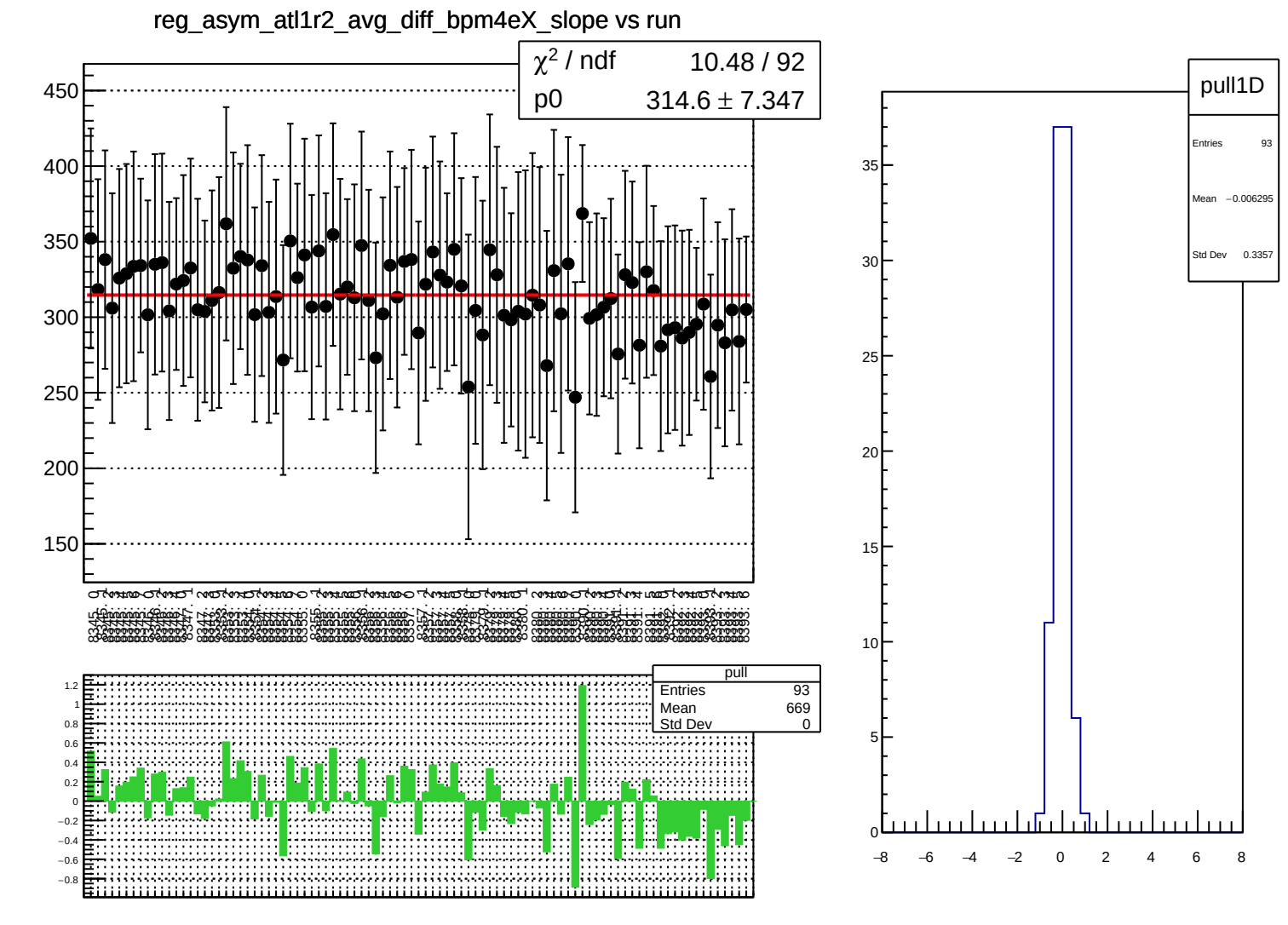

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 43.16 / 92
p0 −25.38 ± 0.2986
pull
Entries 93
Mean −329.7
Std Dev 0

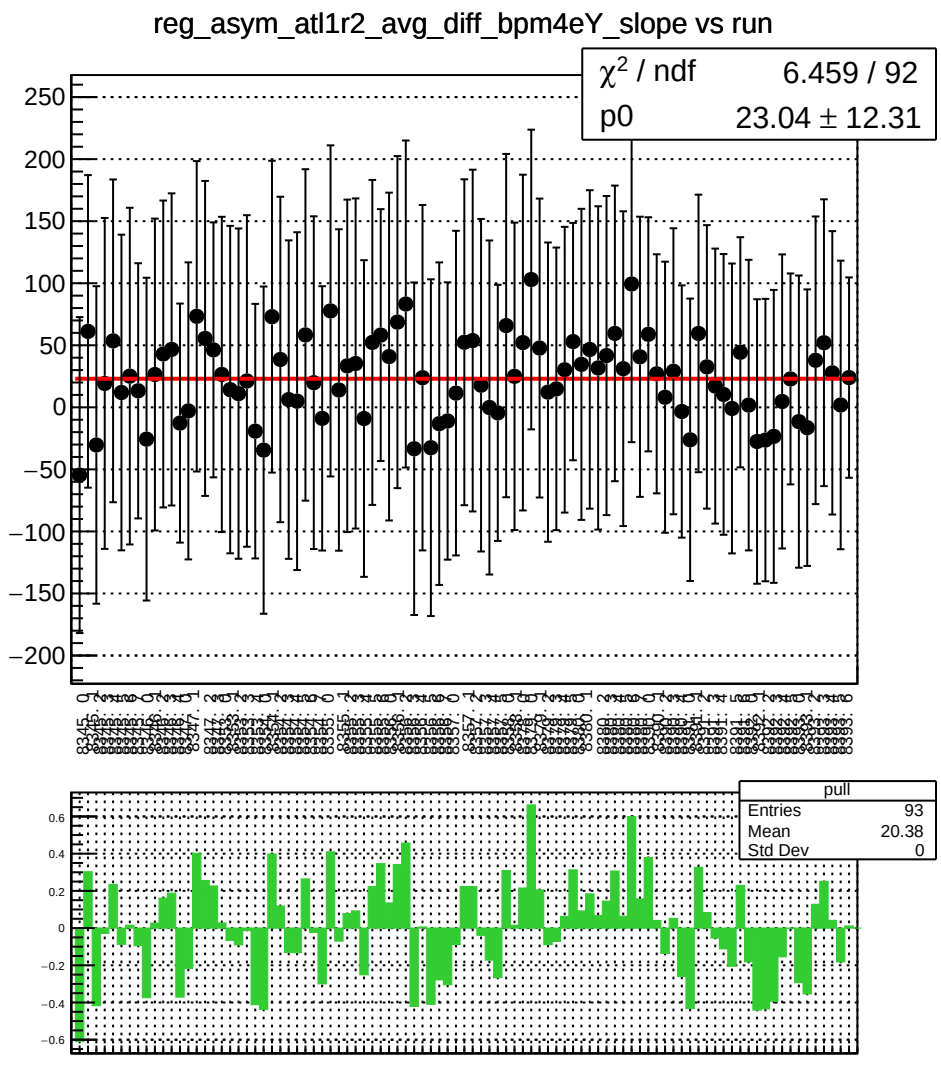

pull1D
Entries 93
Mean −0.01815
Std Dev 0.681

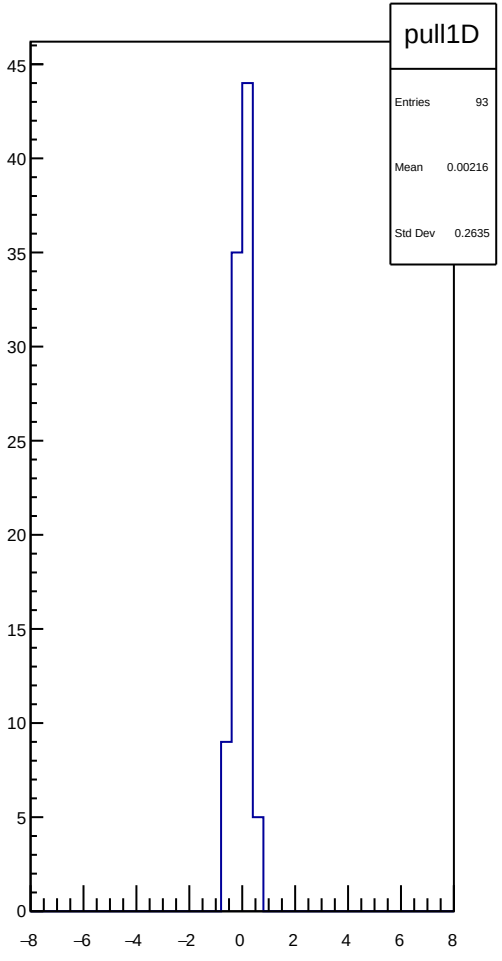

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 11.98 / 92
p0 −276.7 ± 6.692
pull
Entries 93
Mean 216
Std Dev 0
pull1D
Entries 93
Mean 0.02692
Std Dev 0.3579

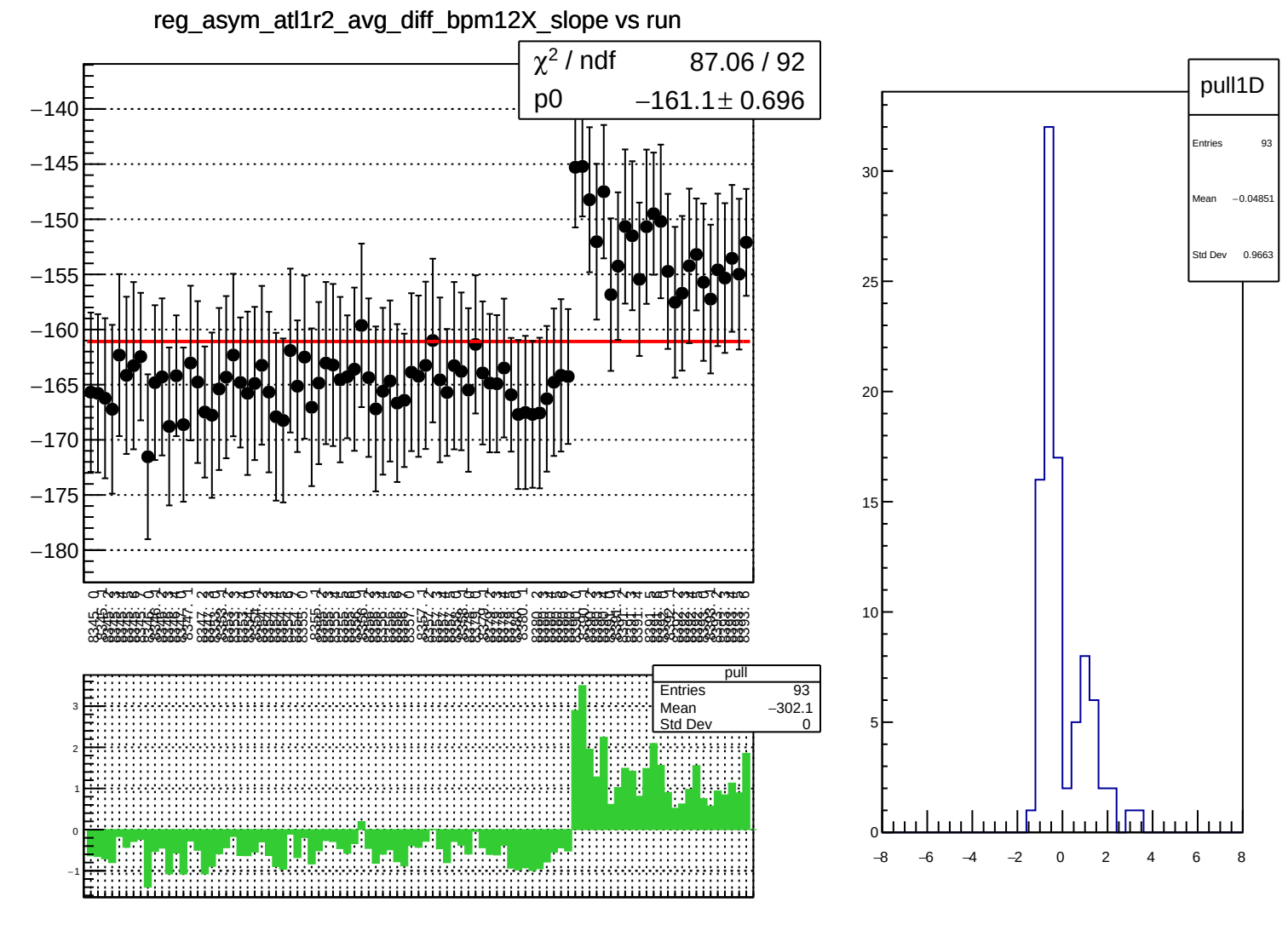

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.513 / 92
p0 41.13 ± 11.63
pull
Entries 93
Mean −48.98
Std Dev 106.2

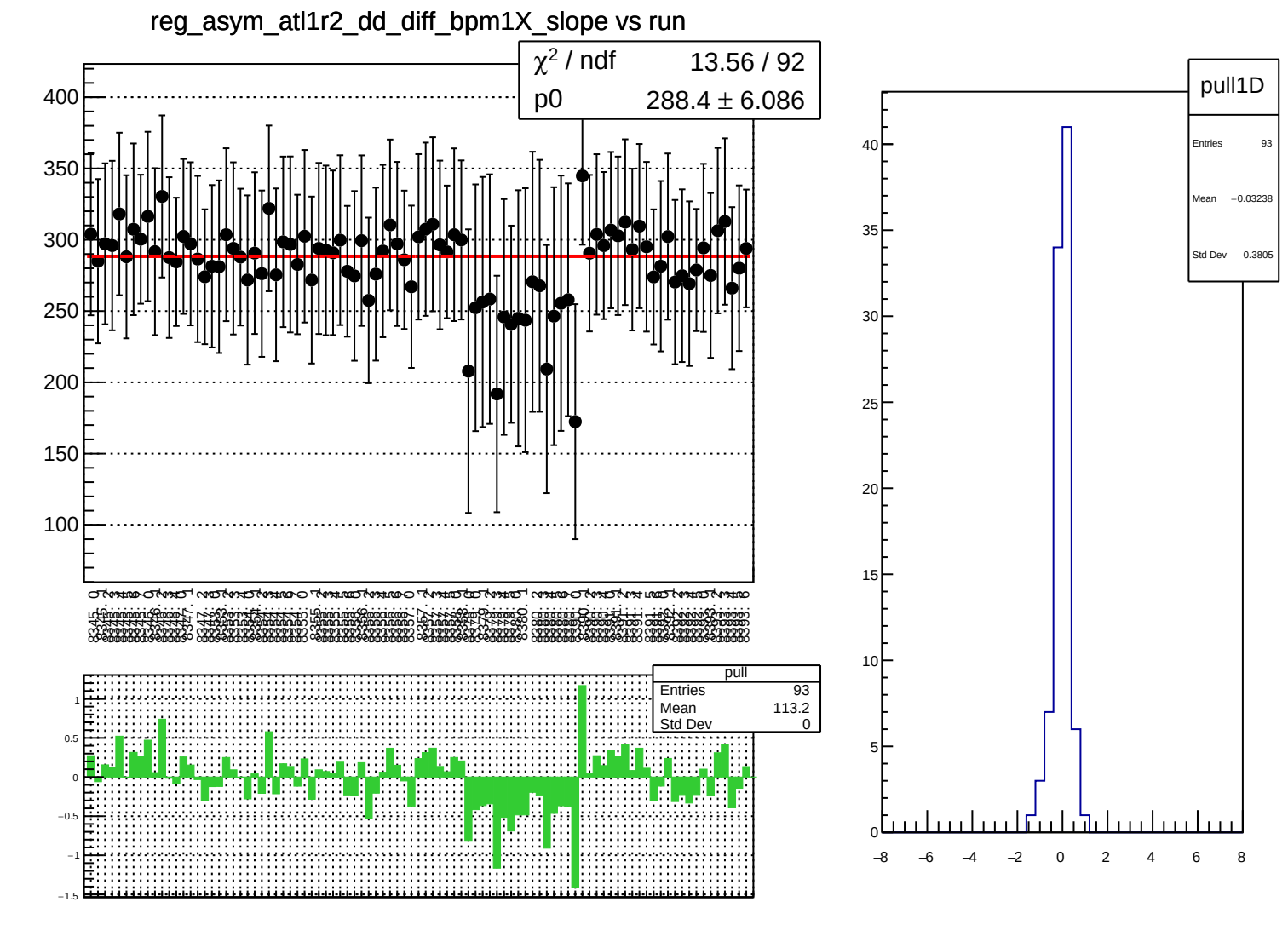

pull1D
Entries 93
Mean 0.002135
Std Dev 0.2646

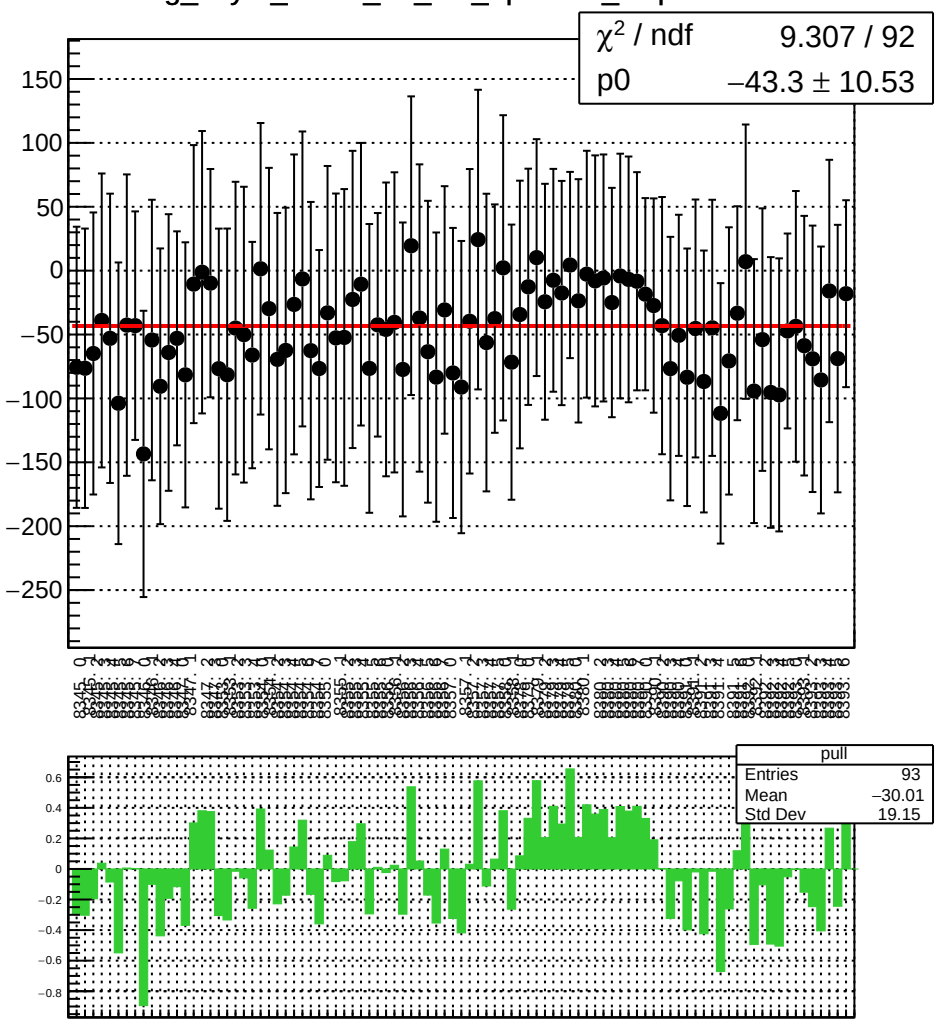

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 10.48 / 92
p0 314.6 ± 7.347
pull
Entries 93
Mean 669
Std Dev 0
pull1D
Entries 93
Mean −0.006295
Std Dev 0.3357

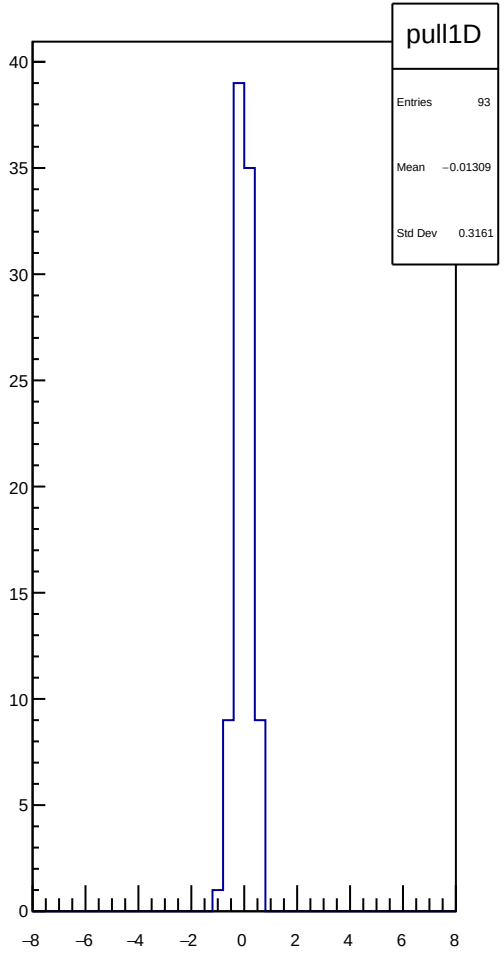

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.459 / 92
p0 23.04 ± 12.31
pull
Entries 93
Mean 20.38
Std Dev 0

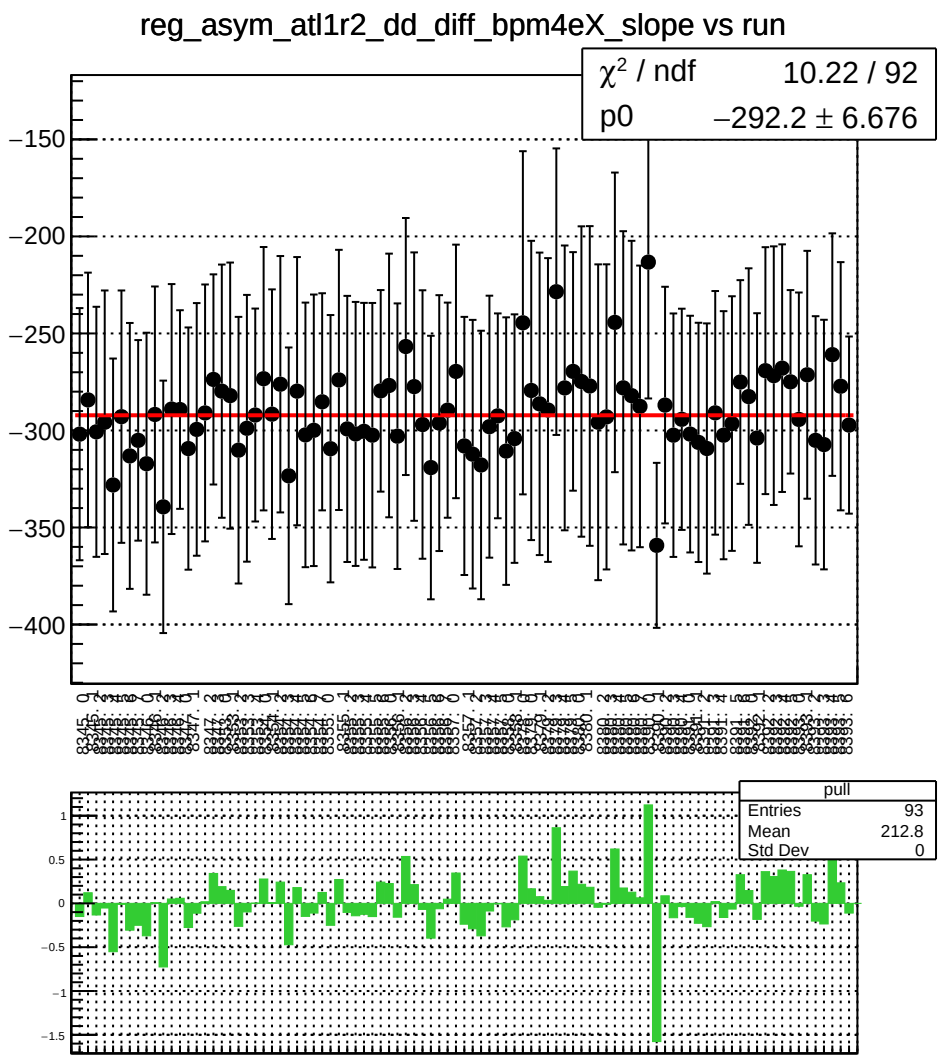

pull1D
Entries 93
Mean 0.00216
Std Dev 0.2635

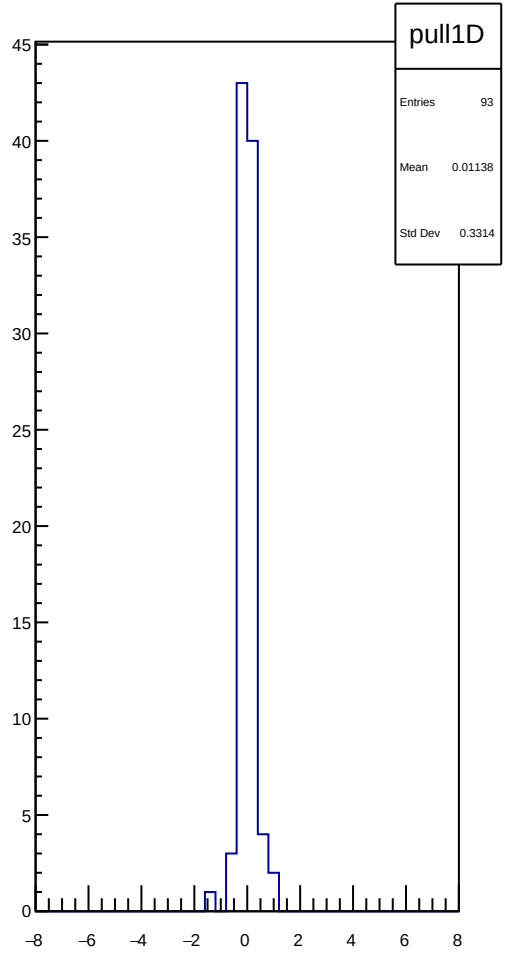

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 87.06 / 92
p0 −161.1 ± 0.696
pull
Entries 93
Mean −302.1
Std Dev 0
pull1D
Entries 93
Mean −0.04851
Std Dev 0.9663

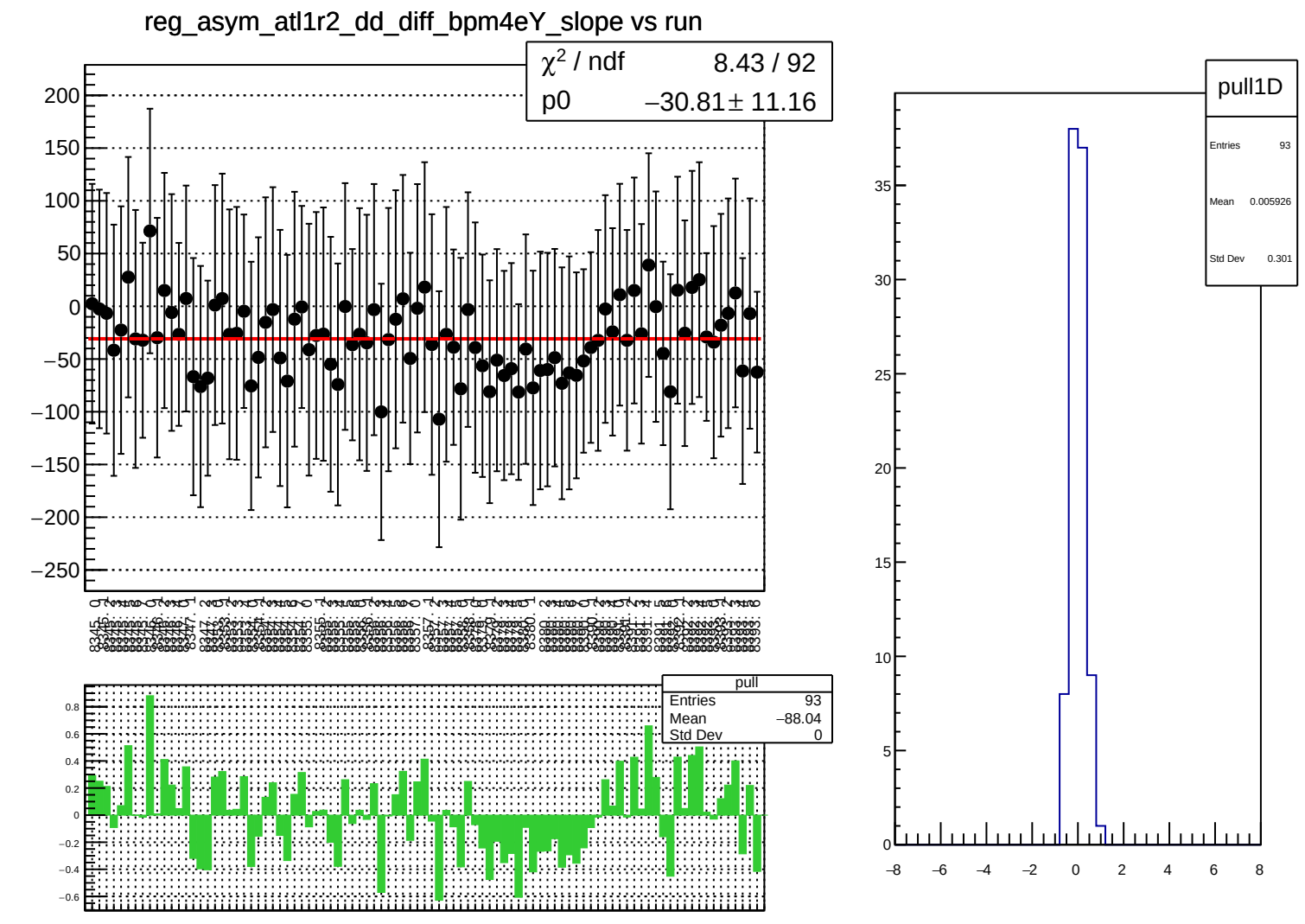

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 13.56 / 92
p0 288.4 ± 6.086
pull
Entries 93
Mean 113.2
Std Dev 0
pull1D
Entries 93
Mean −0.03238
Std Dev 0.3805

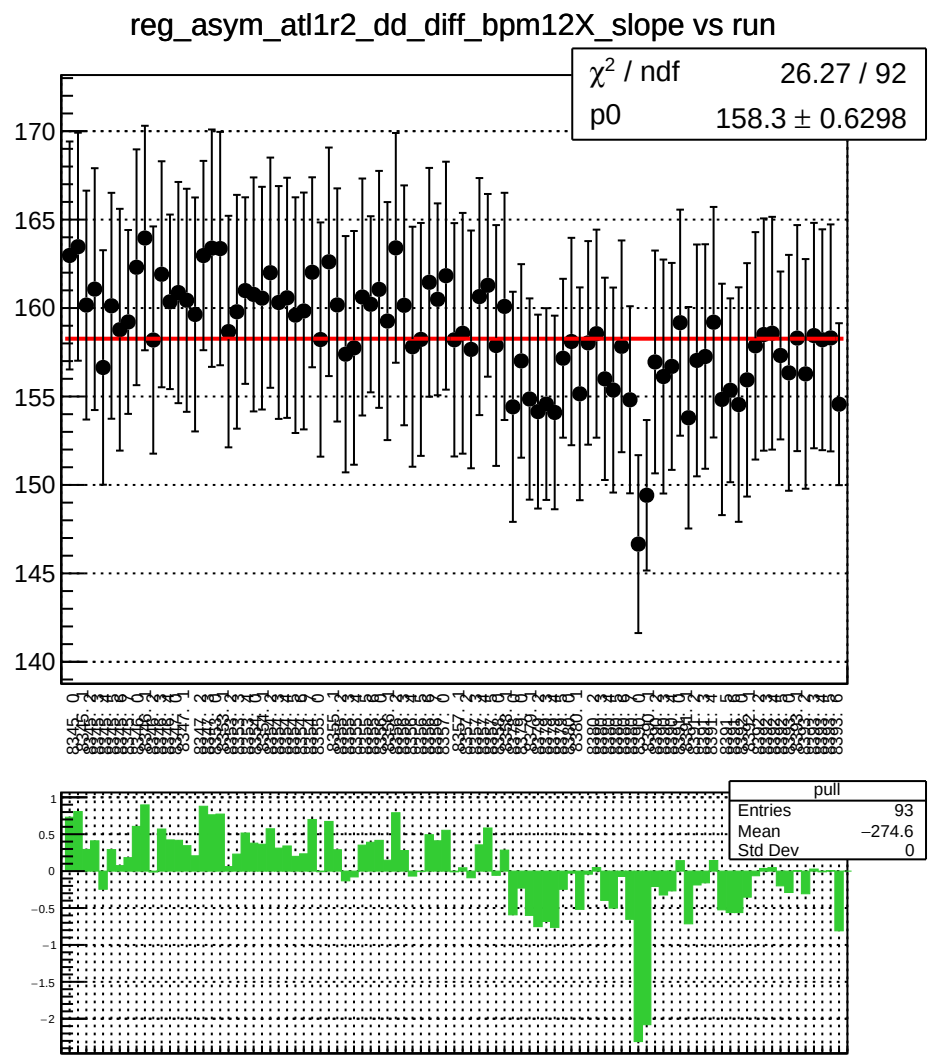

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.307 / 92
p0 −43.3 ± 10.53
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 93
Mean −30.01
Std Dev 19.15
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

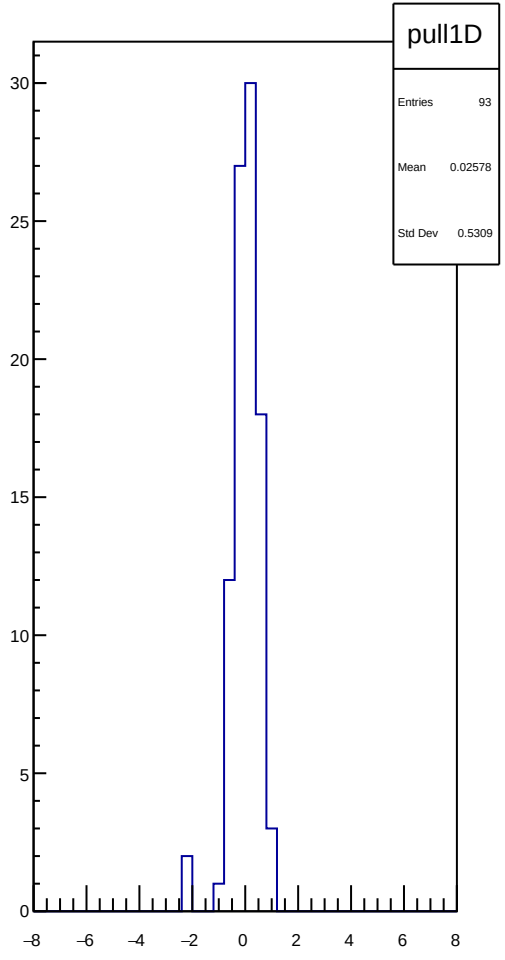

pull1D
Entries 93
Mean −0.01309
Std Dev 0.3161
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

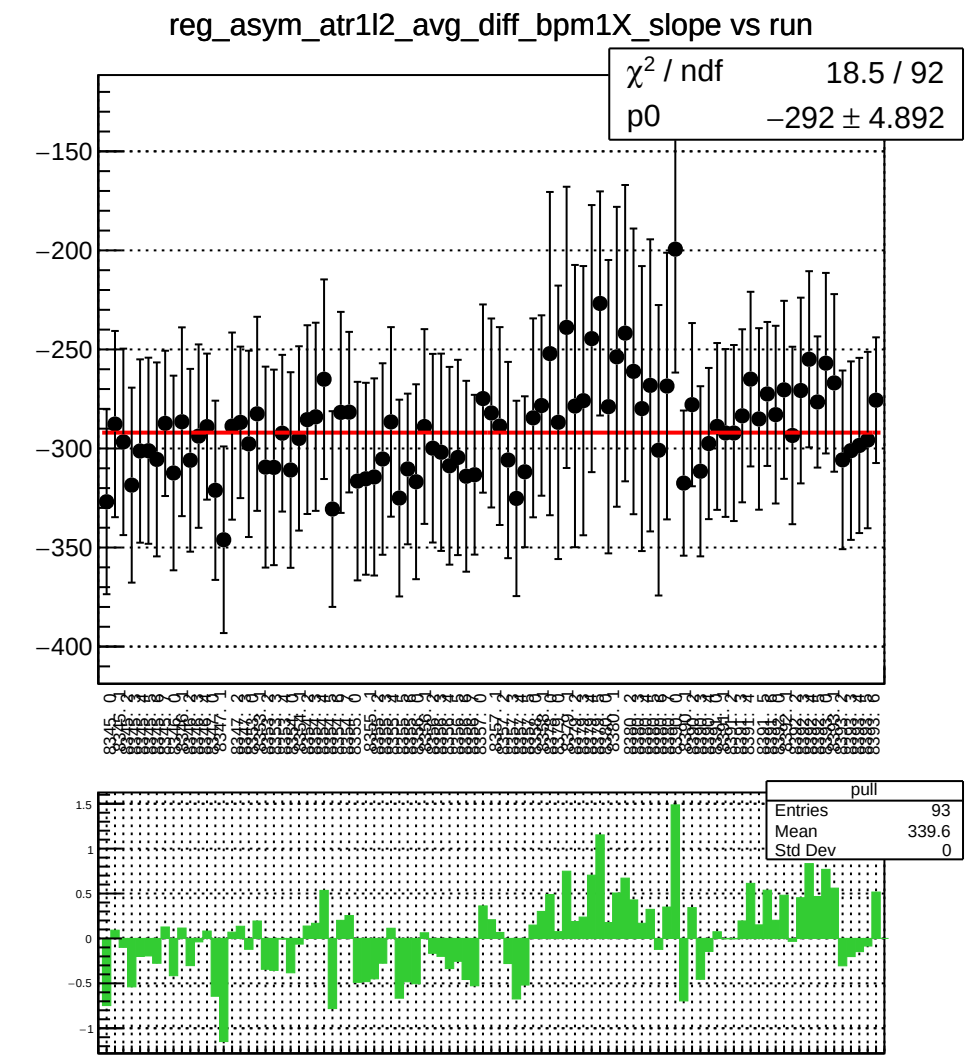

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 10.22 / 92
p0 −292.2 ± 6.676
−150
−200
−250
−300
−350
−400
pull
Entries 93
Mean 212.8
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

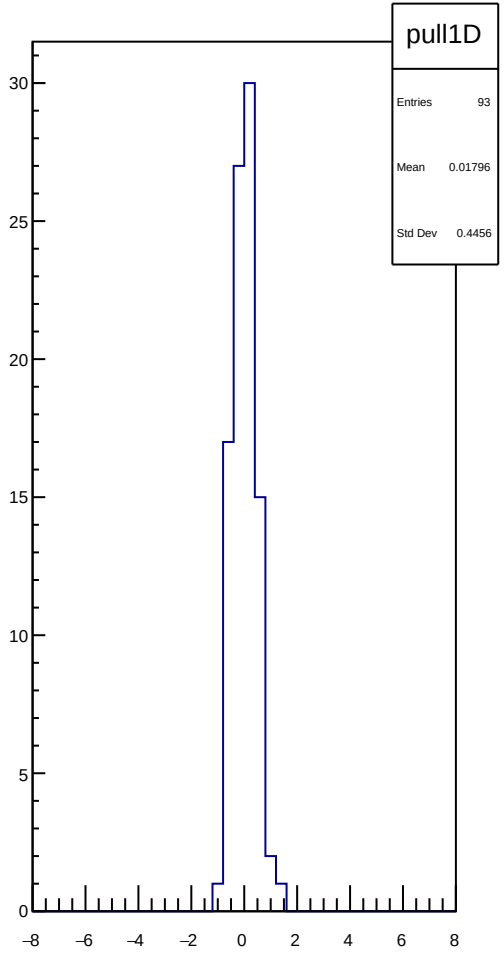

pull1D
Entries 93
Mean 0.01138
Std Dev 0.3314
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

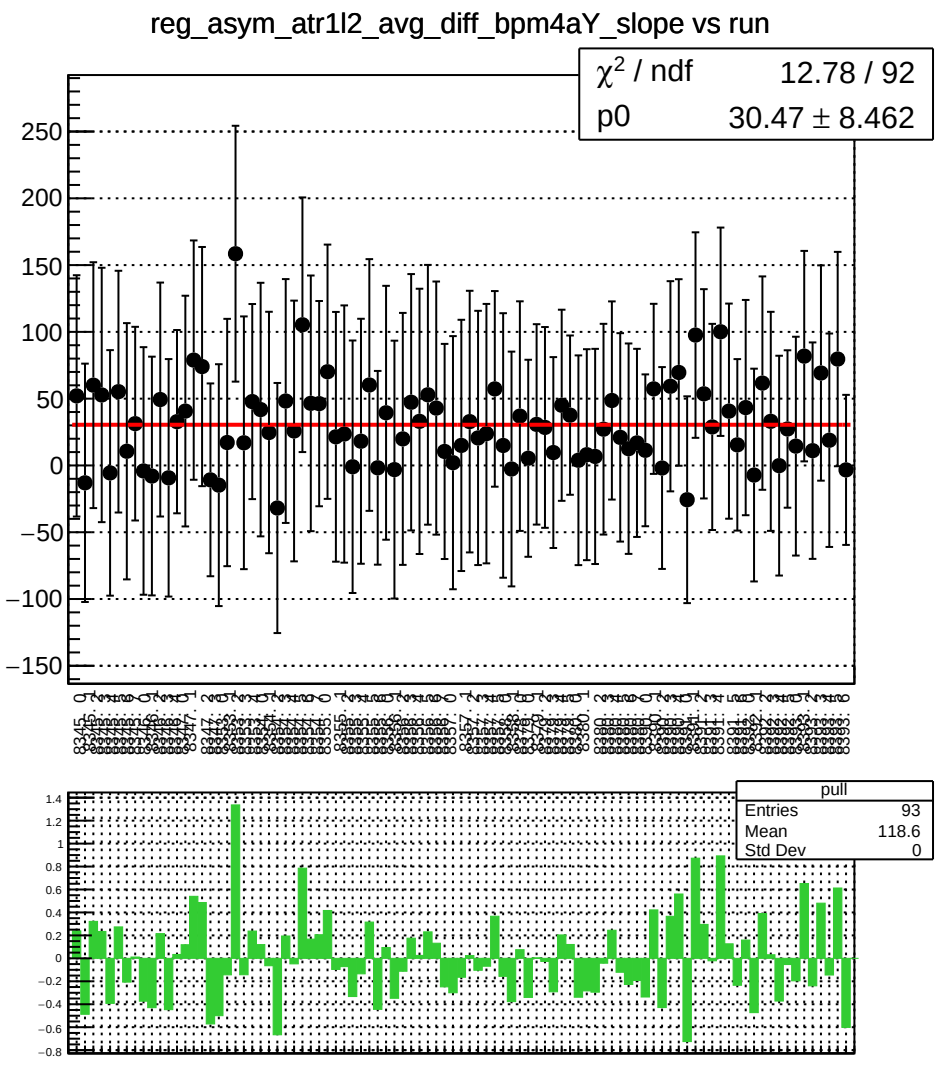

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.43 / 92
p0 −30.81 ± 11.16
pull
Entries 93
Mean −88.04
Std Dev 0
pull1D
Entries 93
Mean 0.005926
Std Dev 0.301

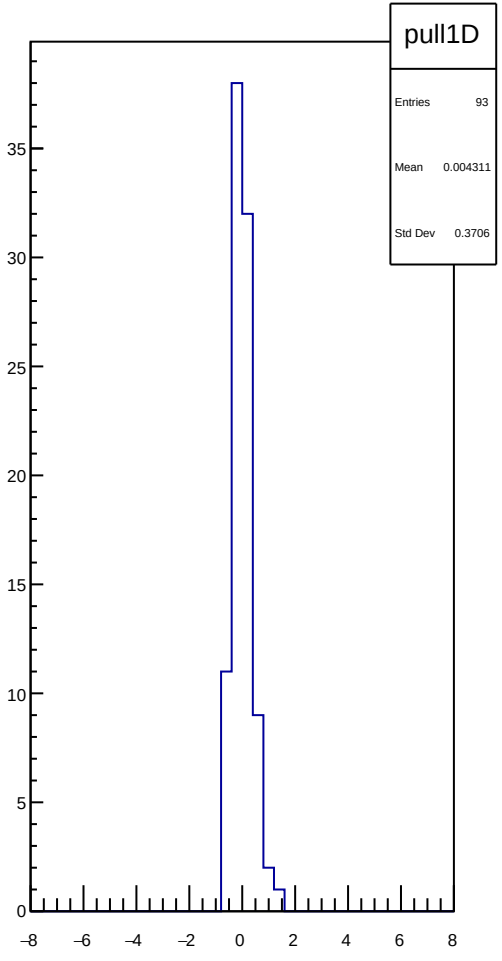

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 26.27 / 92
p0 158.3 ± 0.6298
170
165
160
155
150
145
140
pull
Entries 93
Mean −274.6
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

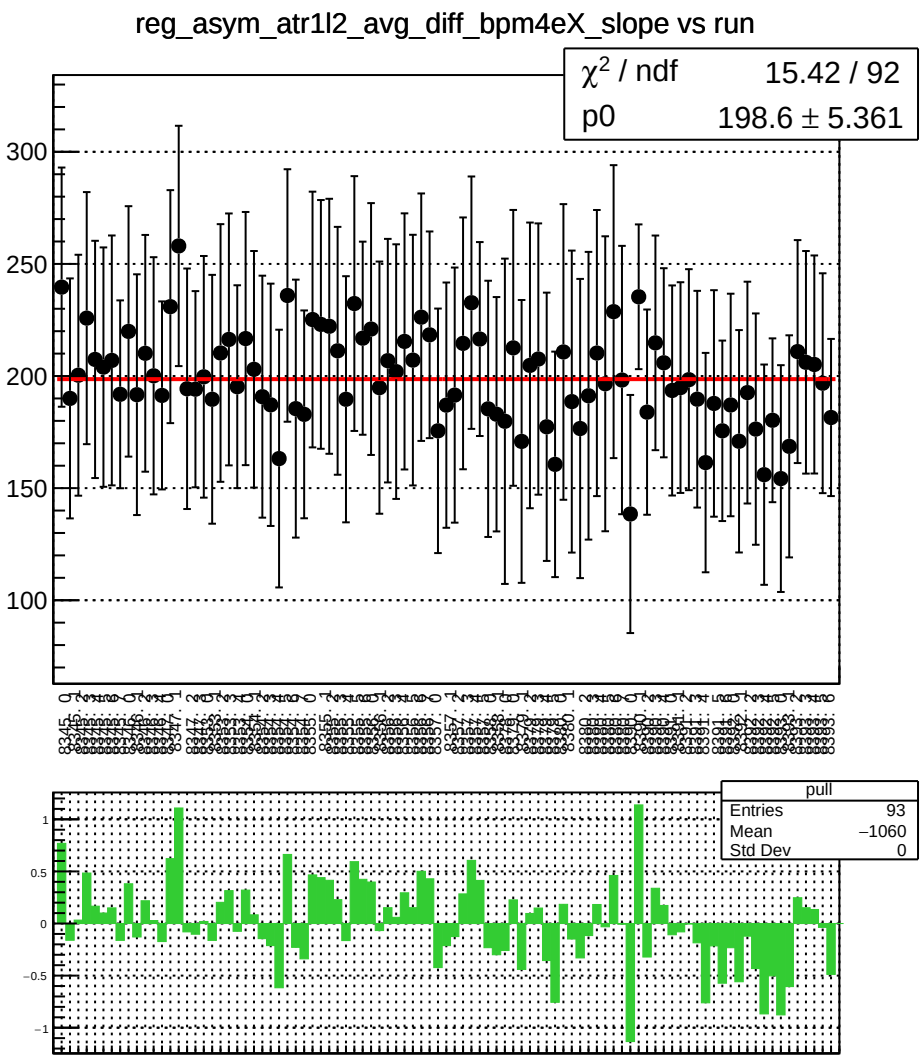

pull1D
Entries 93
Mean 0.02578
Std Dev 0.5309
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

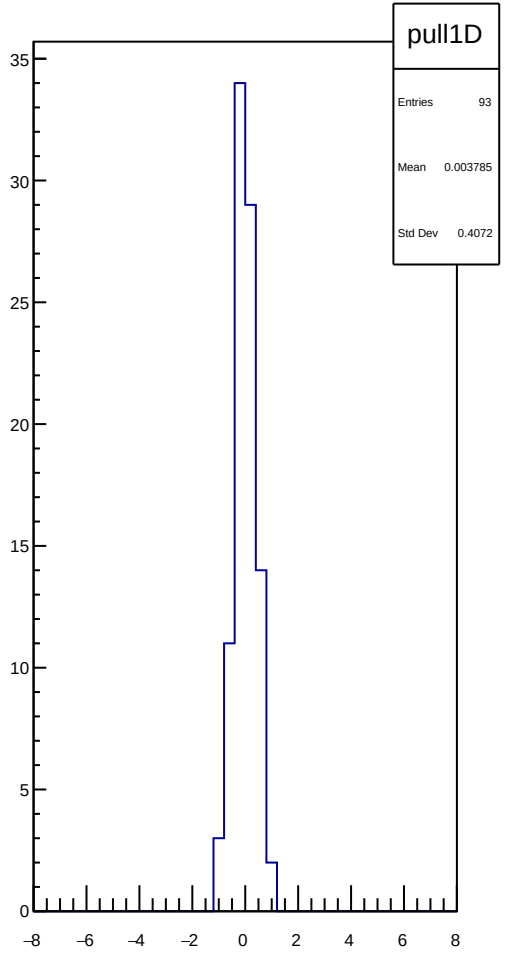

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 18.5 / 92
p0 −292 ± 4.892
−150
−200
−250
−300
−350
−400
pull
Entries 93
Mean 339.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1

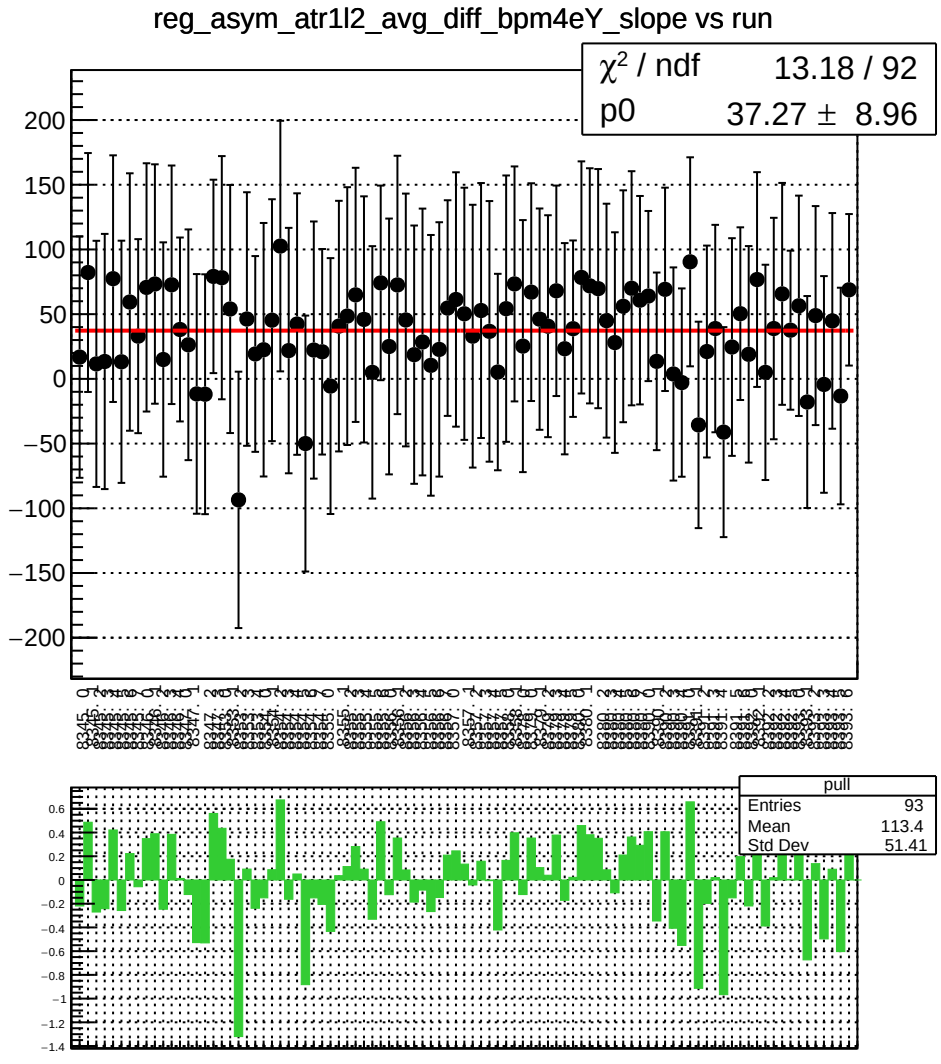

pull1D
Entries 93
Mean 0.01796
Std Dev 0.4456
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

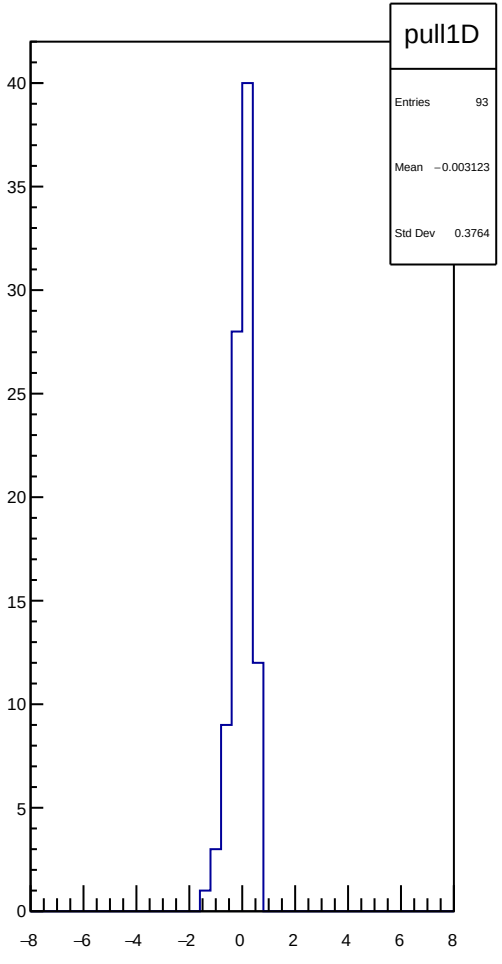

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.78 / 92
p0 30.47 ± 8.462
pull
Entries 93
Mean 118.6
Std Dev 0

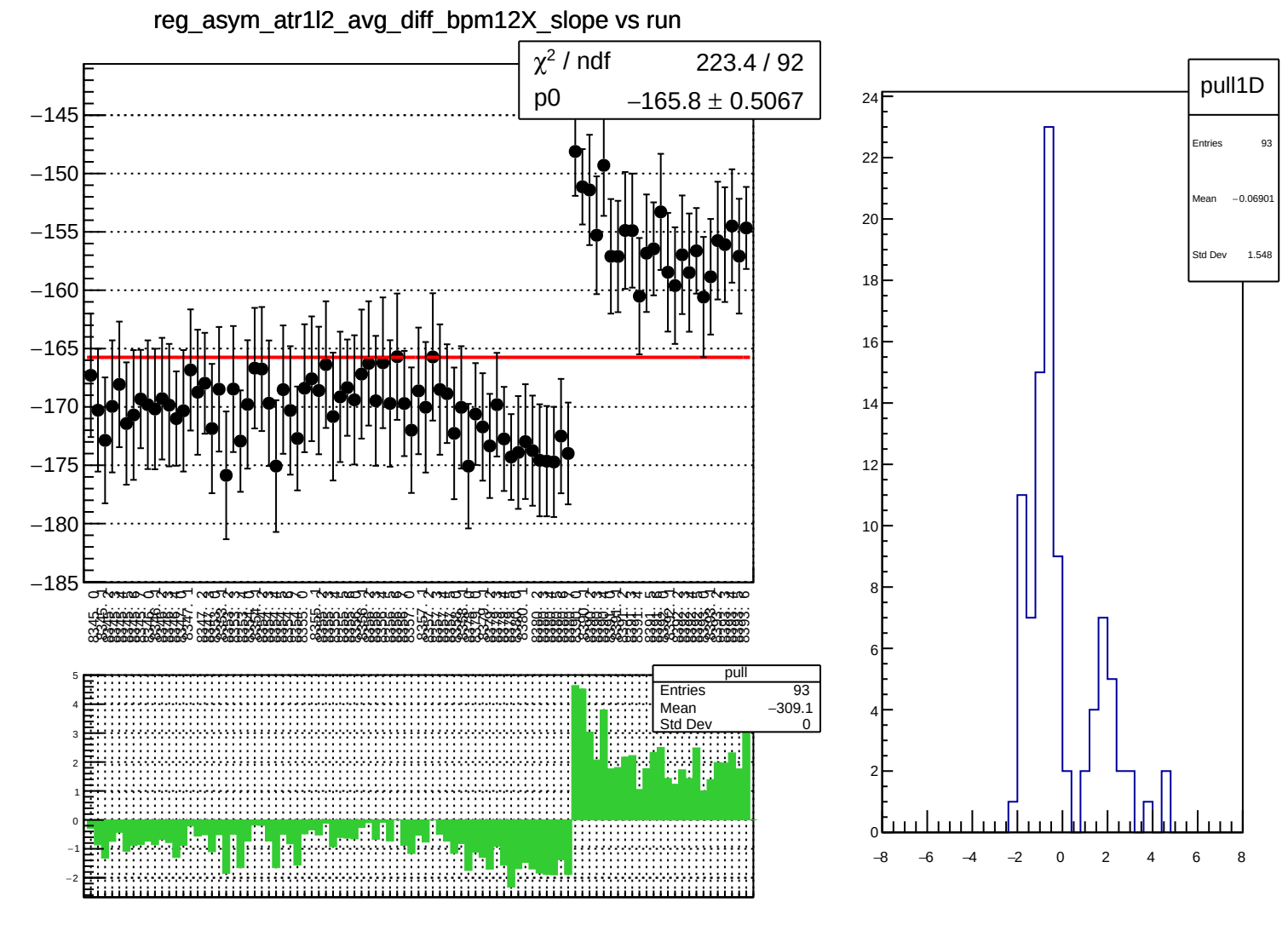

pull1D
Entries 93
Mean 0.004311
Std Dev 0.3706

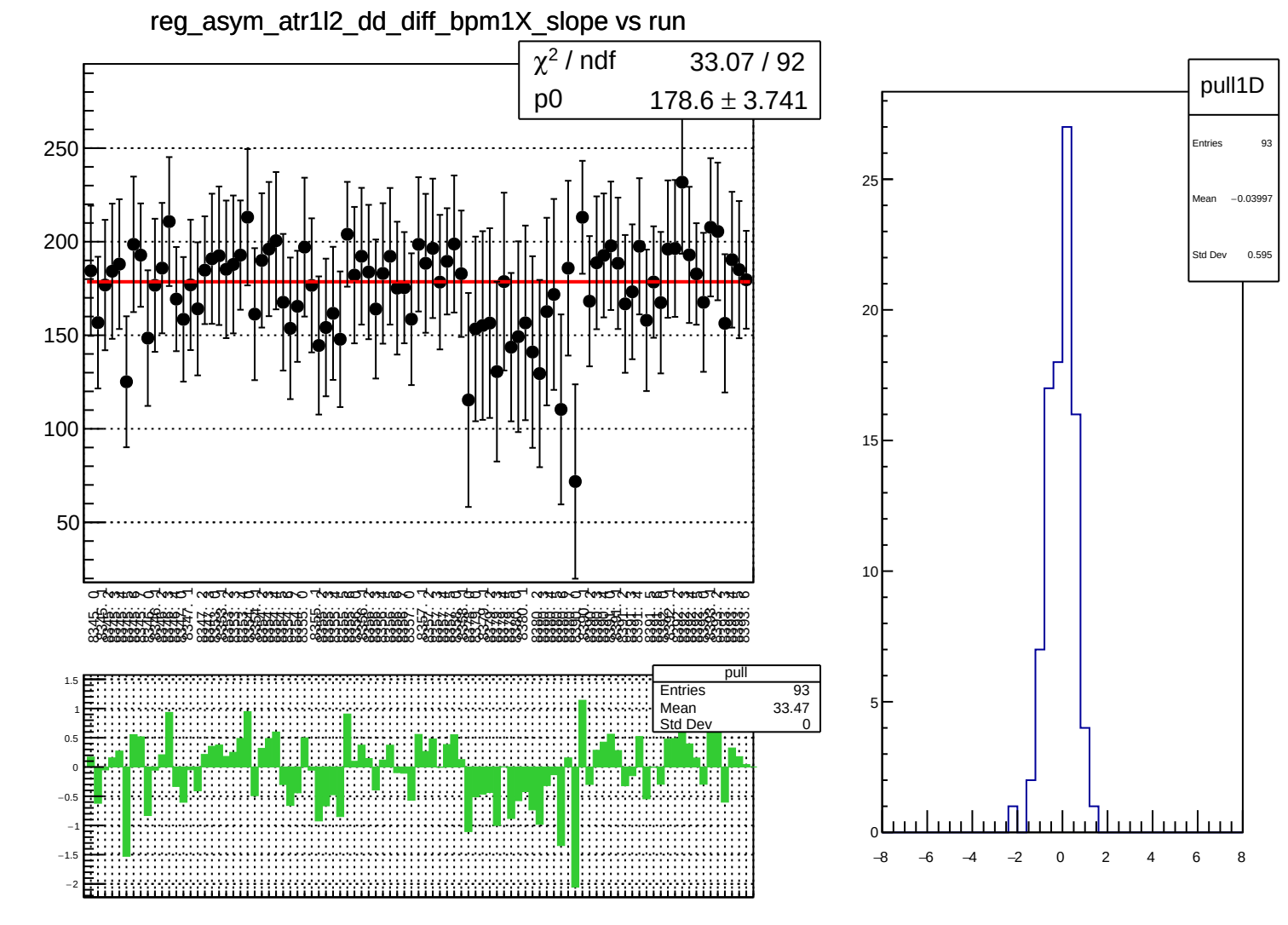

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 15.42 / 92
p0 198.6 ± 5.361
300
250
200
150
100
pull
Entries 93
Mean −1060
Std Dev 0
1
0.5
0
−0.5
−1

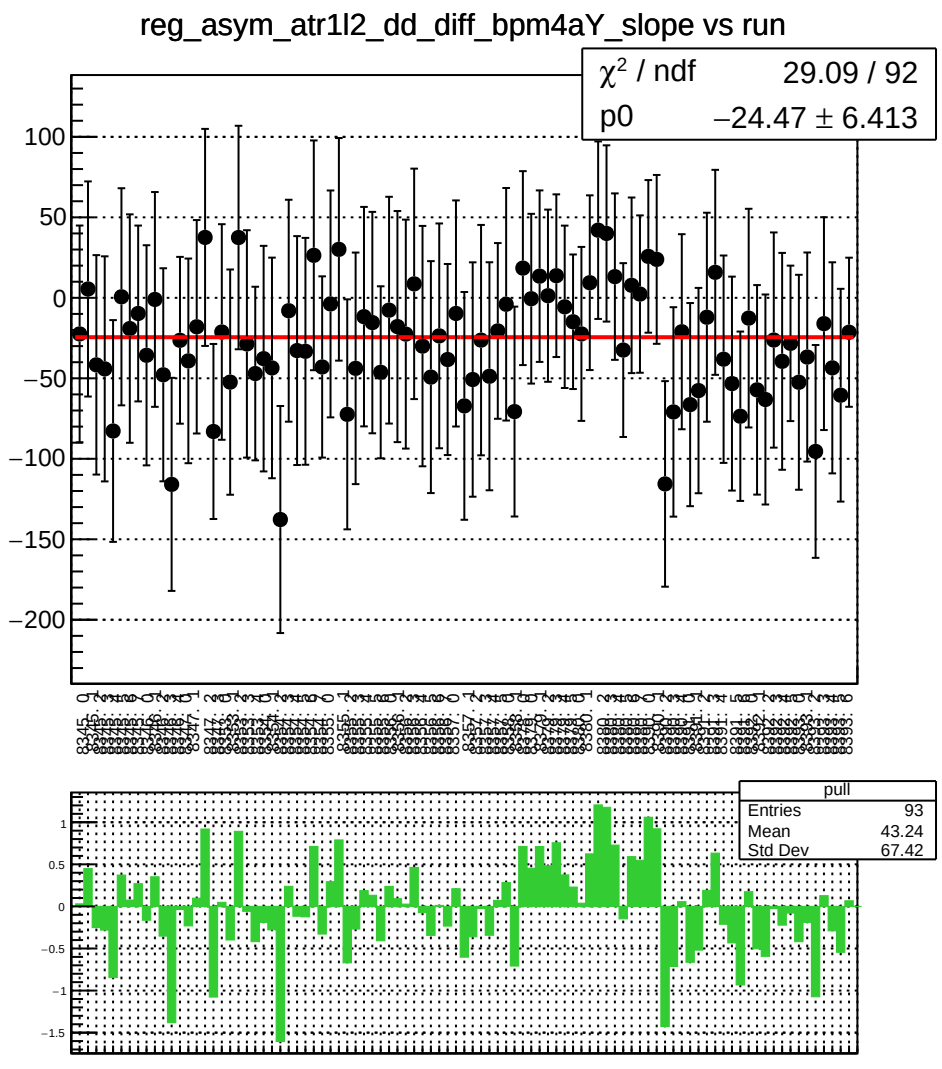

pull1D
Entries 93
Mean 0.003785
Std Dev 0.4072
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

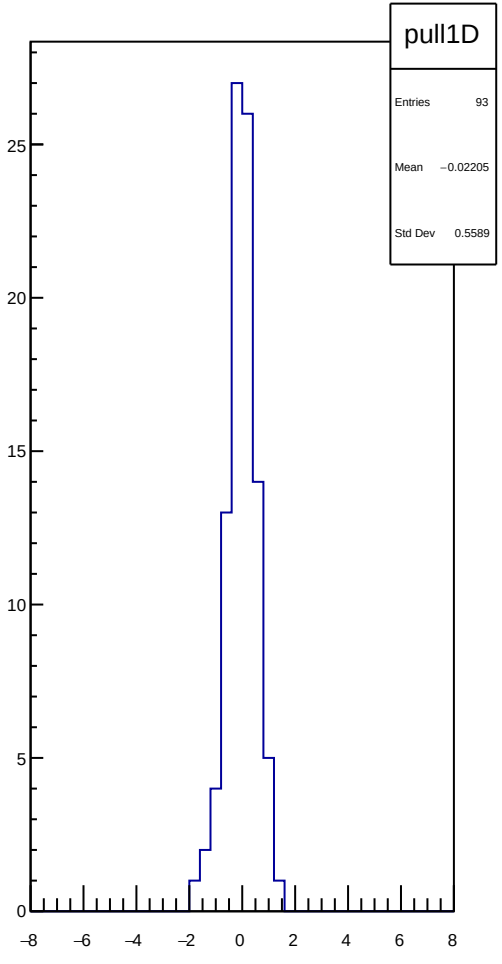

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.18 / 92
p0 37.27 ± 8.96
pull
Entries 93
Mean 113.4
Std Dev 51.41

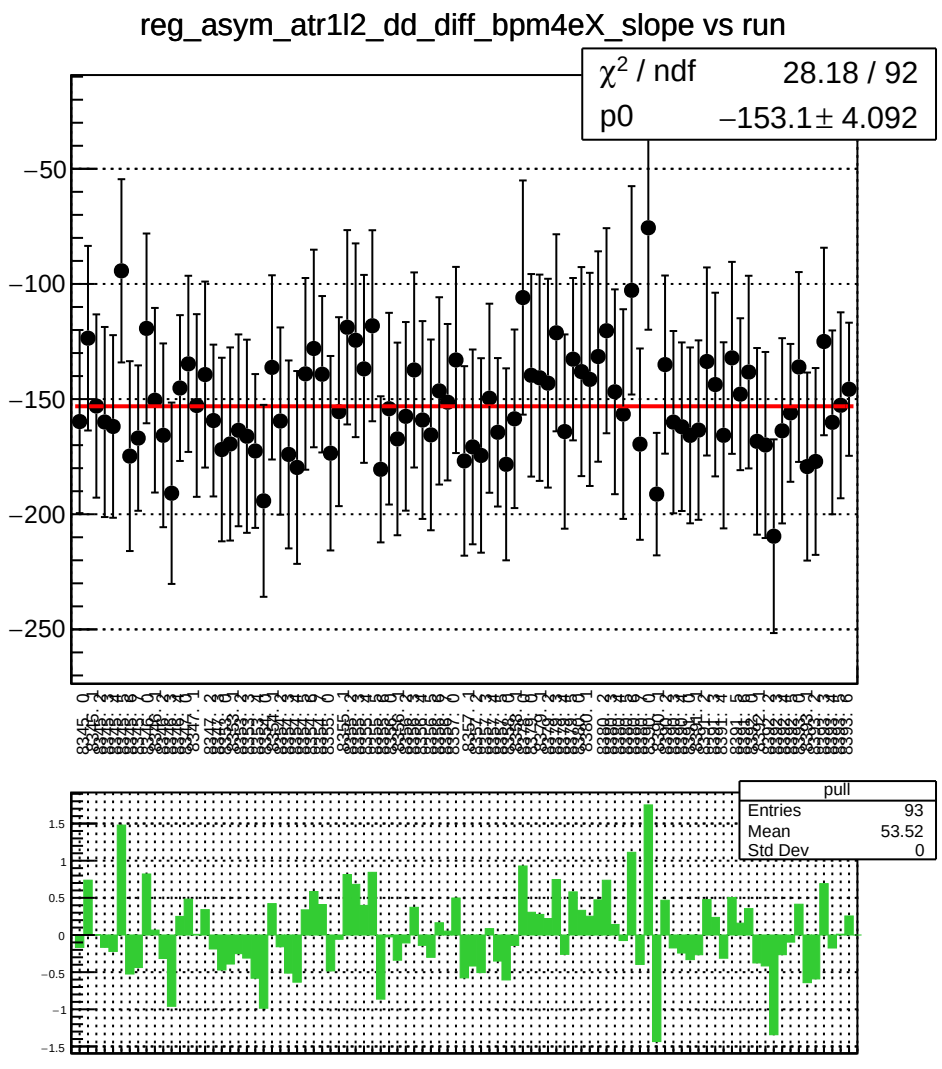

pull1D
Entries 93
Mean −0.003123
Std Dev 0.3764

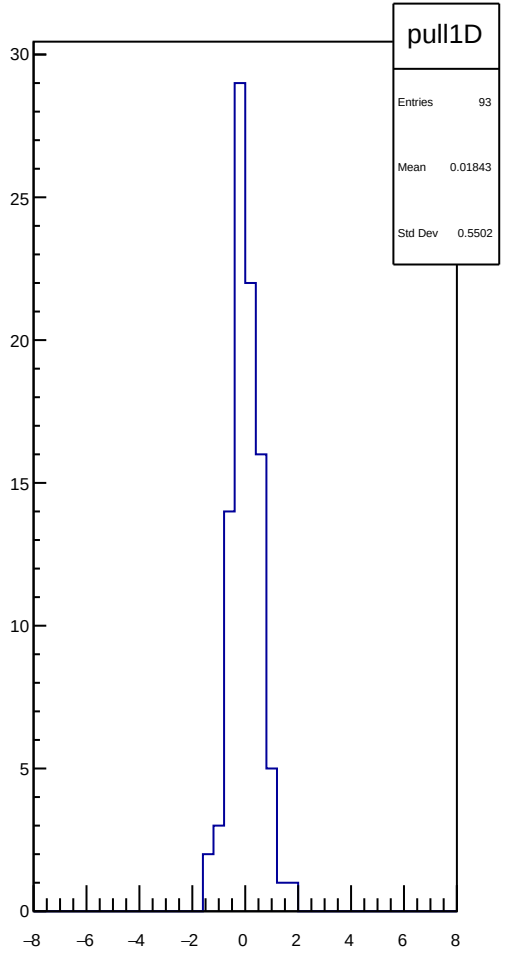

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 223.4 / 92
p0 −165.8 ± 0.5067
−145
−150
−155
−160
−165
−170
−175
−180
−185
pull
Entries 93
Mean −309.1
Std Dev 0
5
4
3
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.06901
Std Dev 1.548
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

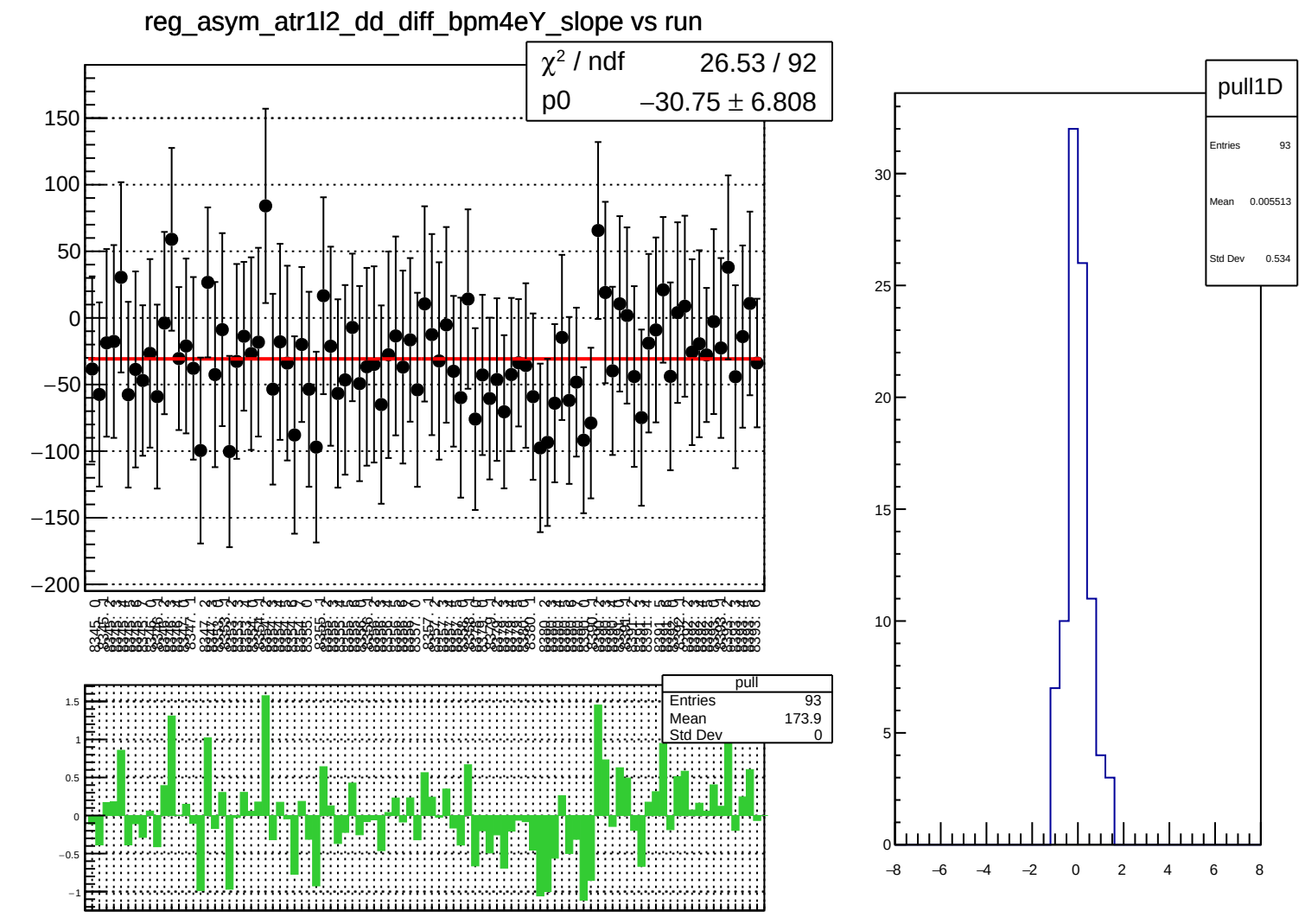

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 33.07 / 92
p0 178.6 ± 3.741
250
200
150
100
50
pull
Entries 93
Mean 33.47
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean −0.03997
Std Dev 0.595
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

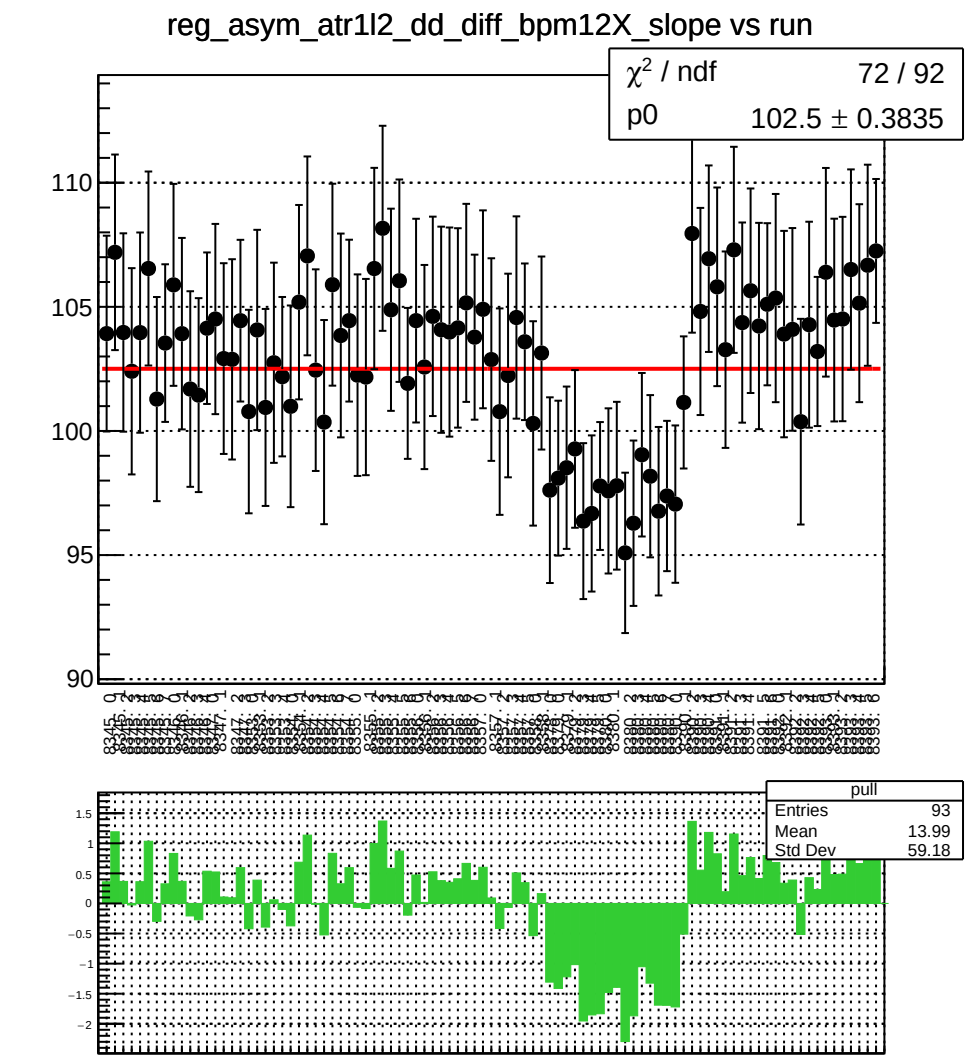

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 29.09 / 92
p0 −24.47 ± 6.413
pull
Entries 93
Mean 43.24
Std Dev 67.42

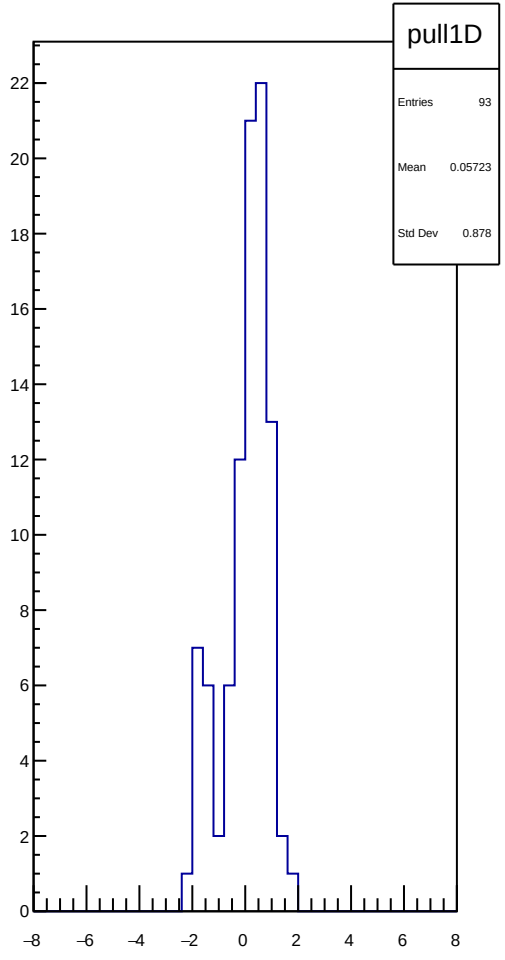

pull1D
Entries 93
Mean −0.02205
Std Dev 0.5589

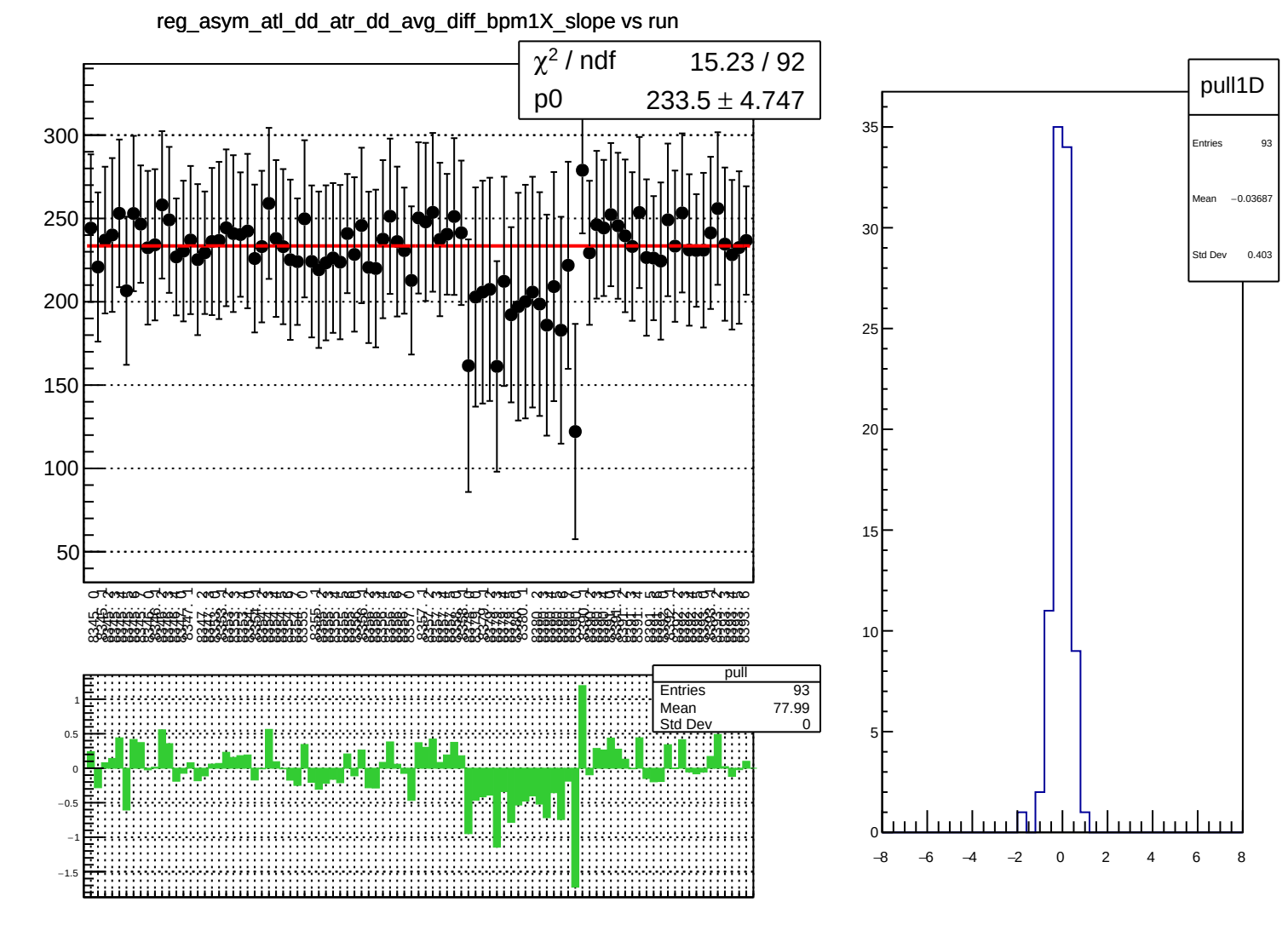

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 28.18 / 92
p0 −153.1 ± 4.092
−50
−100
−150
−200
−250
pull
Entries 93
Mean 53.52
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

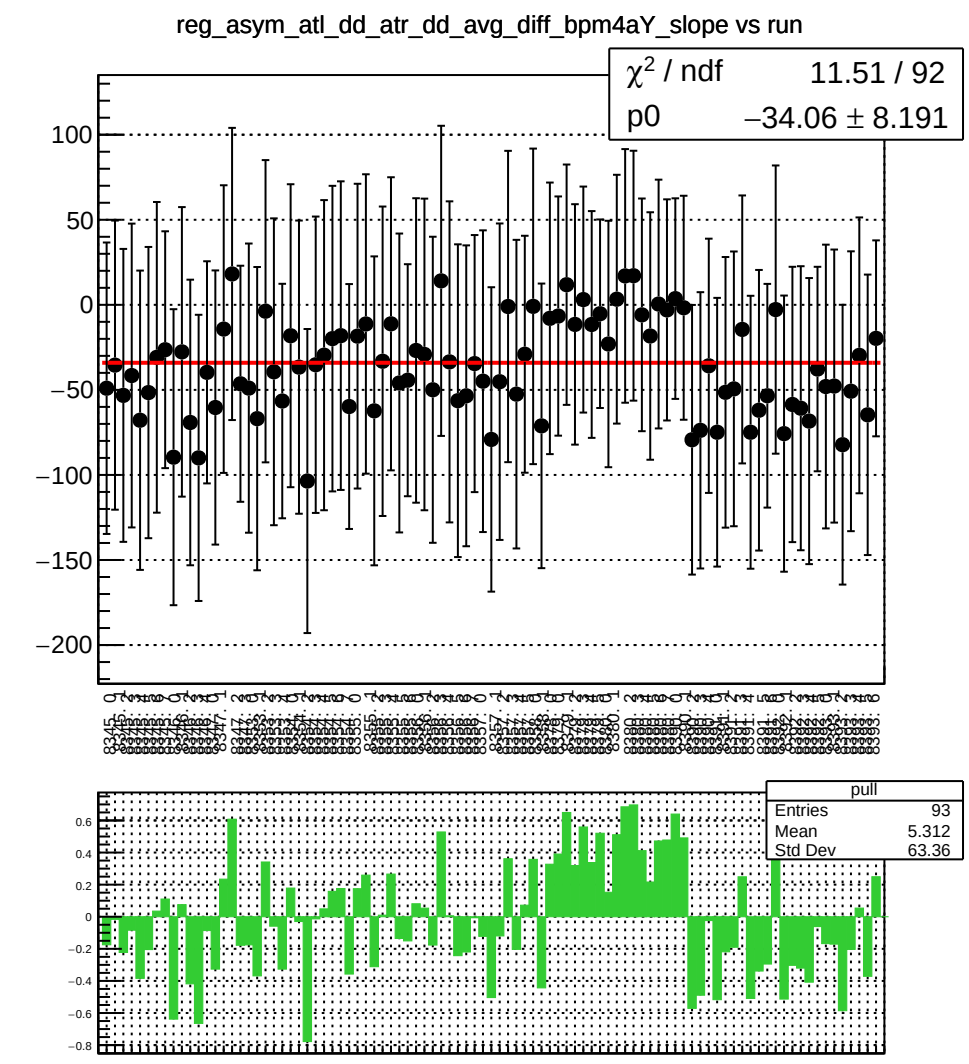

pull1D
Entries 93
Mean 0.01843
Std Dev 0.5502
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

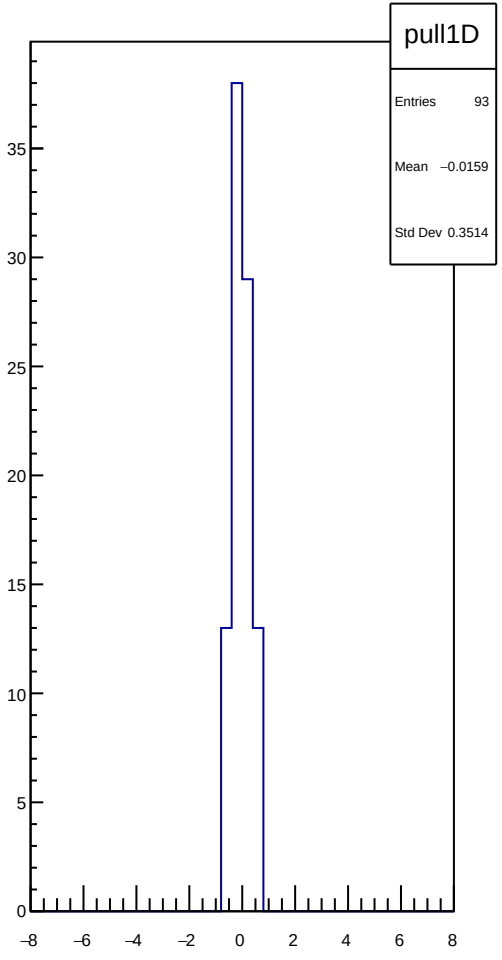

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 26.53 / 92
p0 −30.75 ± 6.808
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean 173.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 93
Mean 0.005513
Std Dev 0.534
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

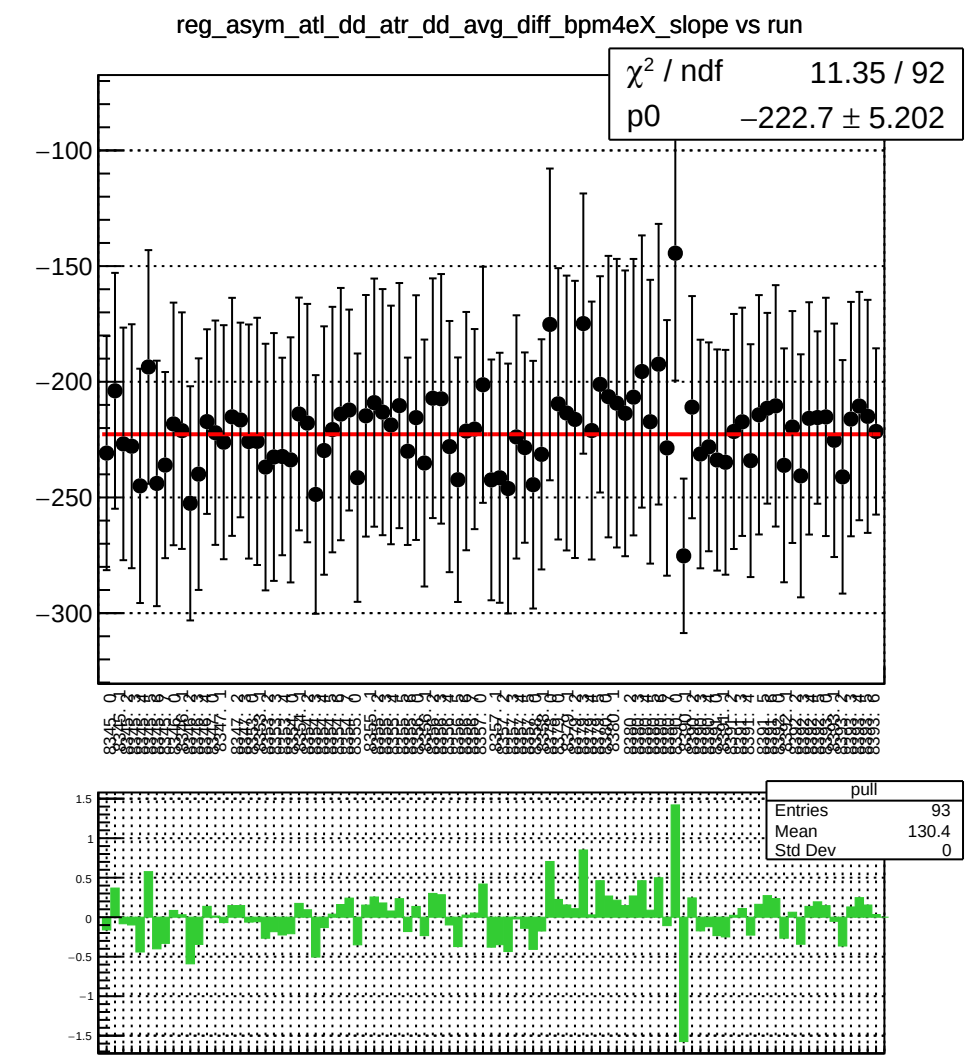

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 72 / 92
p0 102.5 ± 0.3835
110
105
100
95
90
pull
Entries 93
Mean 13.99
Std Dev 59.18
1.5
1
0.5
0
−0.5
−1
−1.5
−2

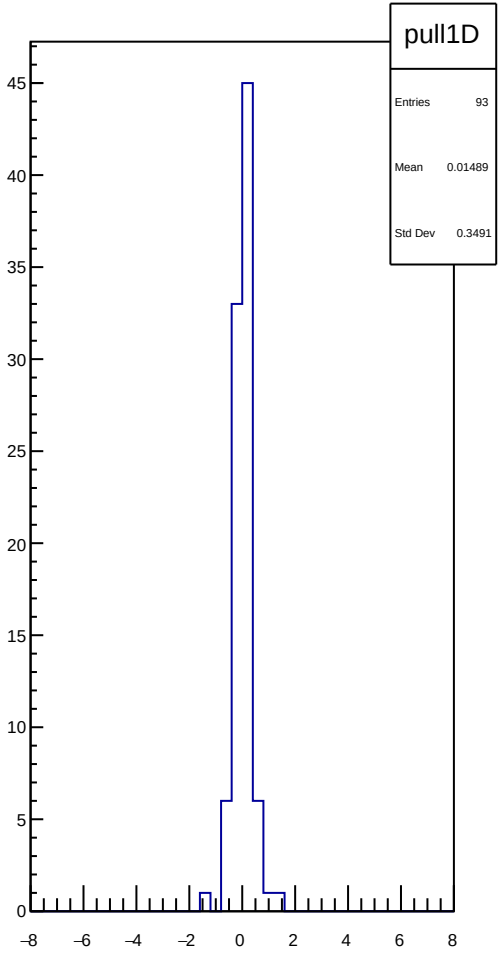

pull1D
Entries 93
Mean 0.05723
Std Dev 0.878
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

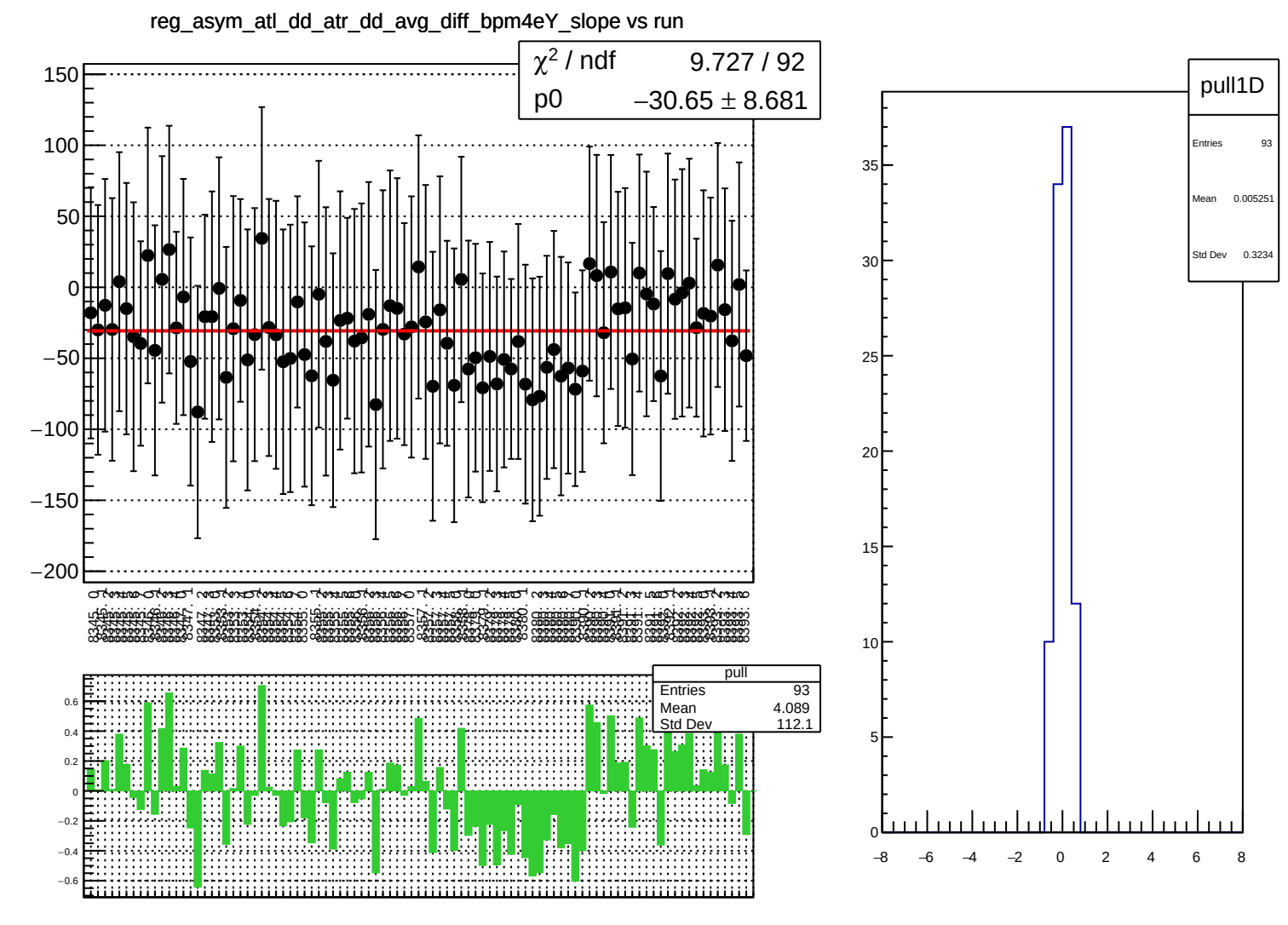

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 15.23 / 92
p0 233.5 ± 4.747
300
250
200
150
100
50
pull
Entries 93
Mean 77.99
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean −0.03687
Std Dev 0.403
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

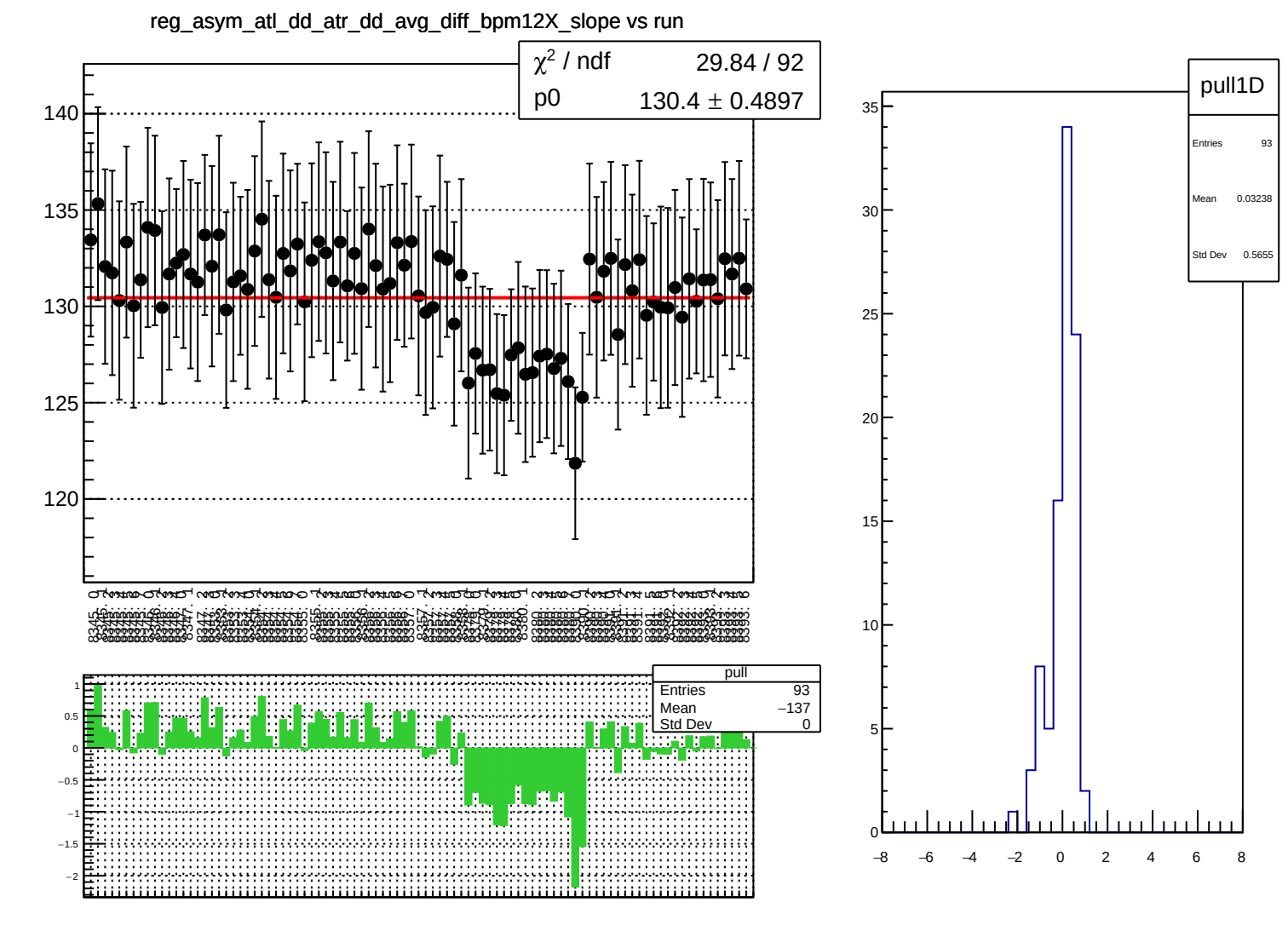

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.51 / 92
p0 −34.06 ± 8.191
pull
Entries 93
Mean 5.312
Std Dev 63.36

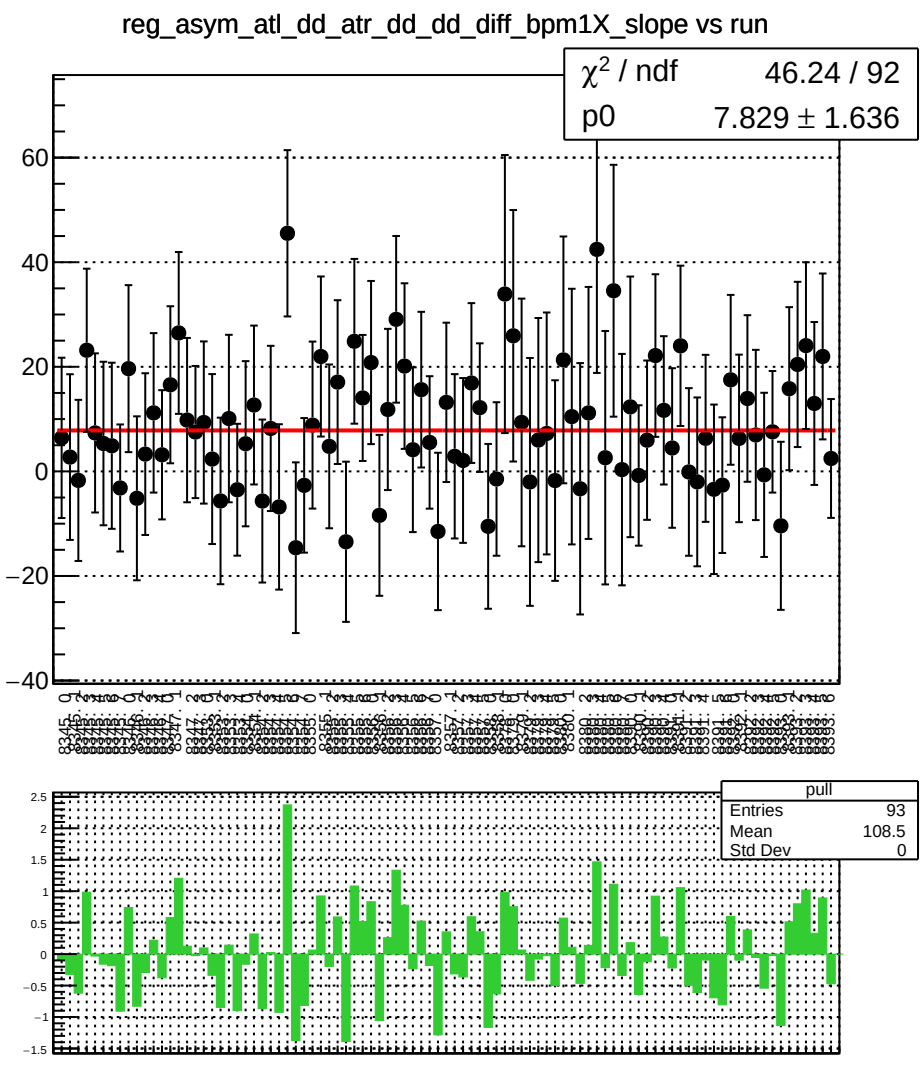

pull1D
Entries 93
Mean −0.0159
Std Dev 0.3514

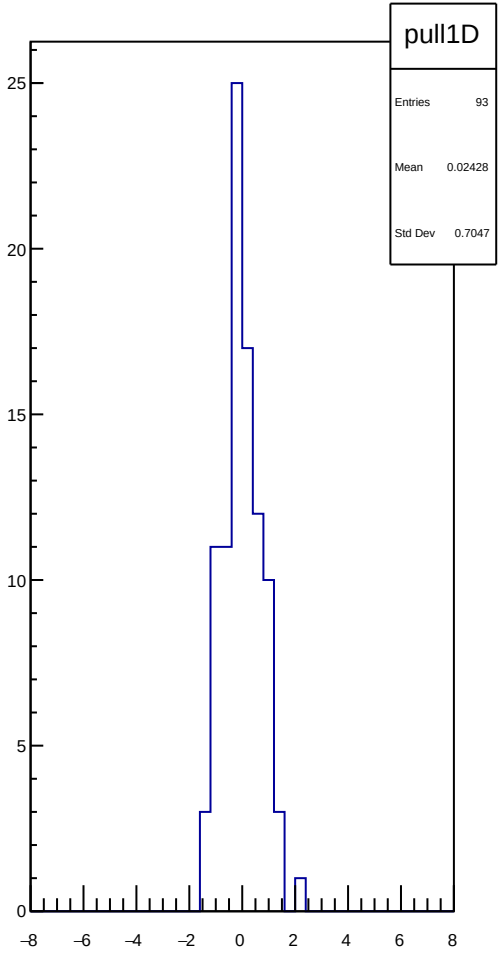

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 11.35 / 92
p0 −222.7 ± 5.202
pull
Entries 93
Mean 130.4
Std Dev 0

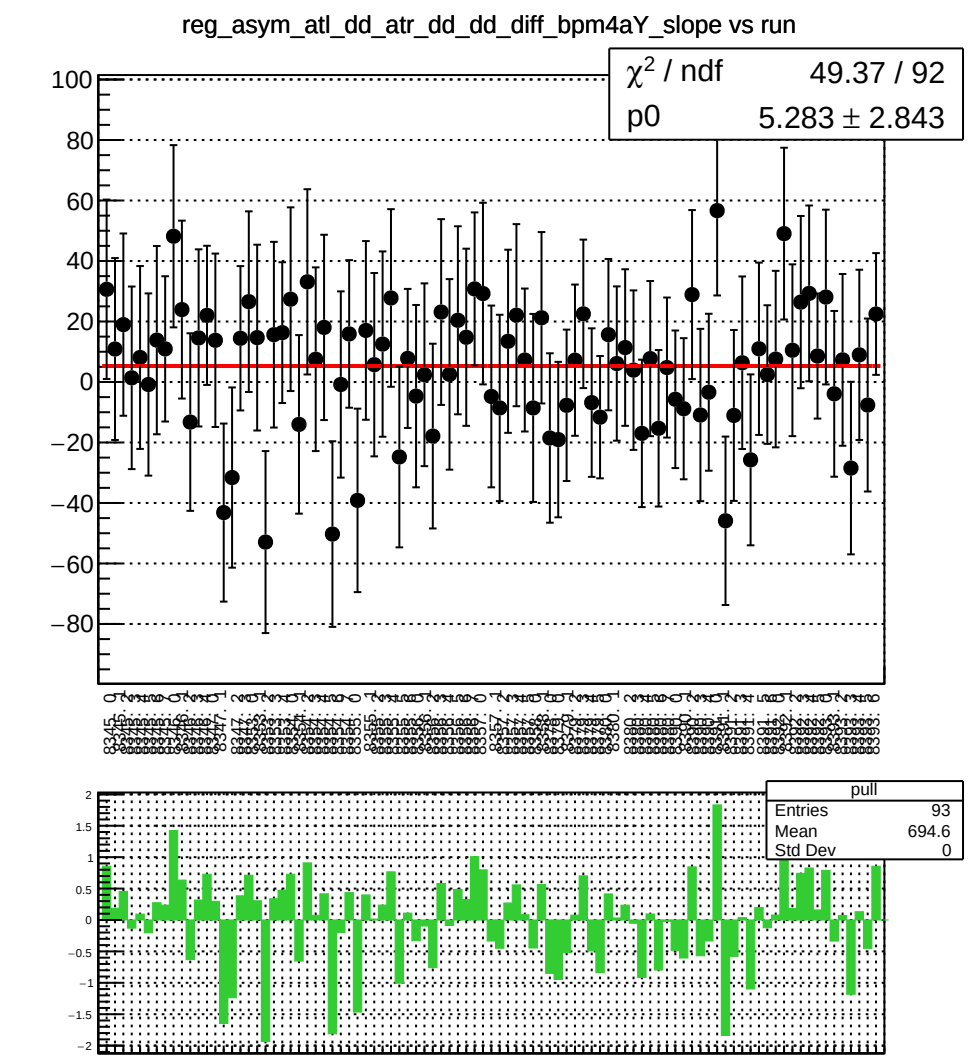

pull1D
Entries 93
Mean 0.01489
Std Dev 0.3491

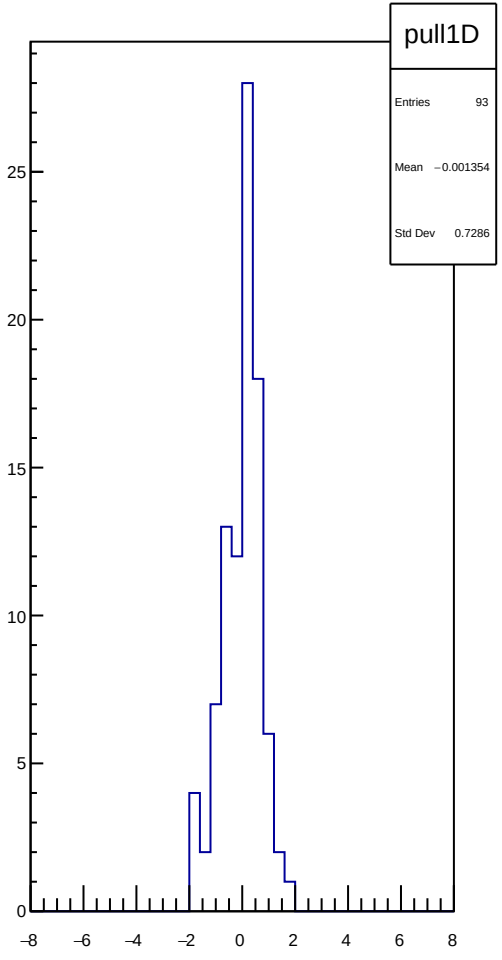

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.727 / 92
p0 −30.65 ± 8.681
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean 4.089
Std Dev 112.1
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 93
Mean 0.005251
Std Dev 0.3234
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

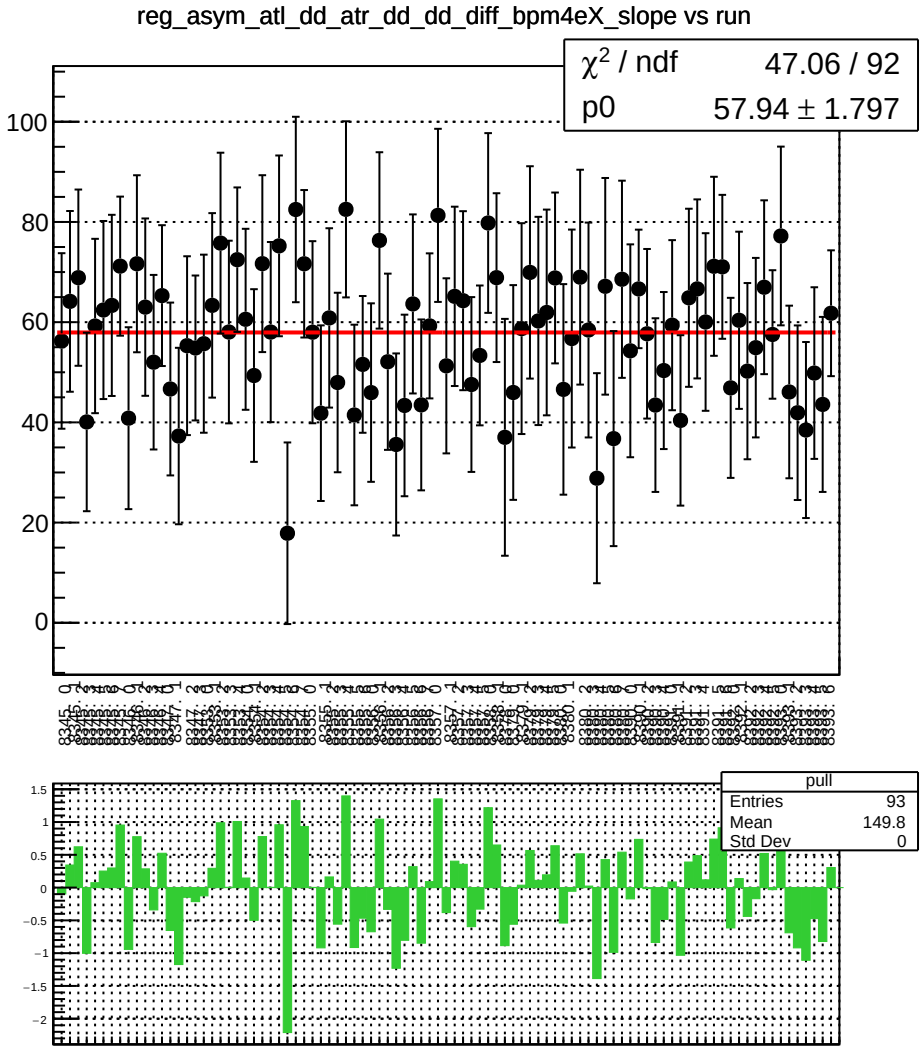

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 29.84 / 92
p0 130.4 ± 0.4897
140
135
130
125
120
pull
Entries 93
Mean −137
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean 0.03238
Std Dev 0.5655
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

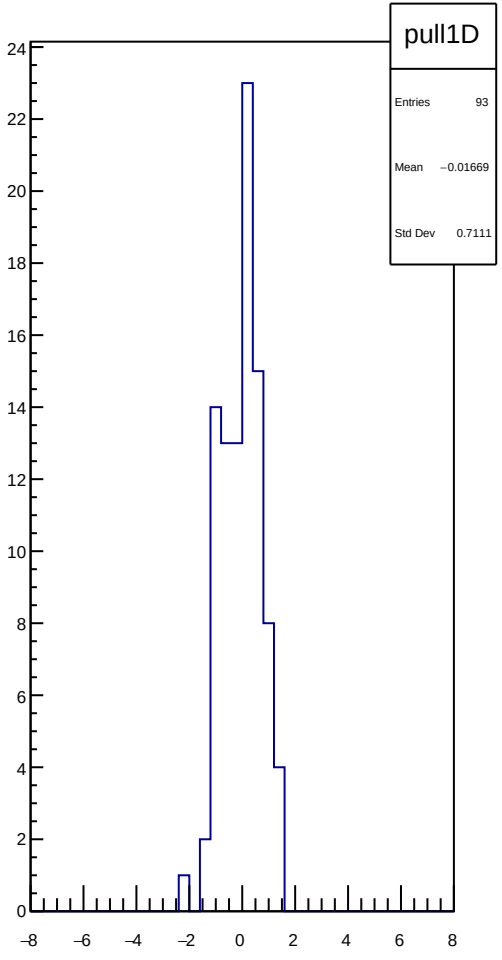

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 46.24 / 92
p0 7.829 ± 1.636
pull
Entries 93
Mean 108.5
Std Dev 0

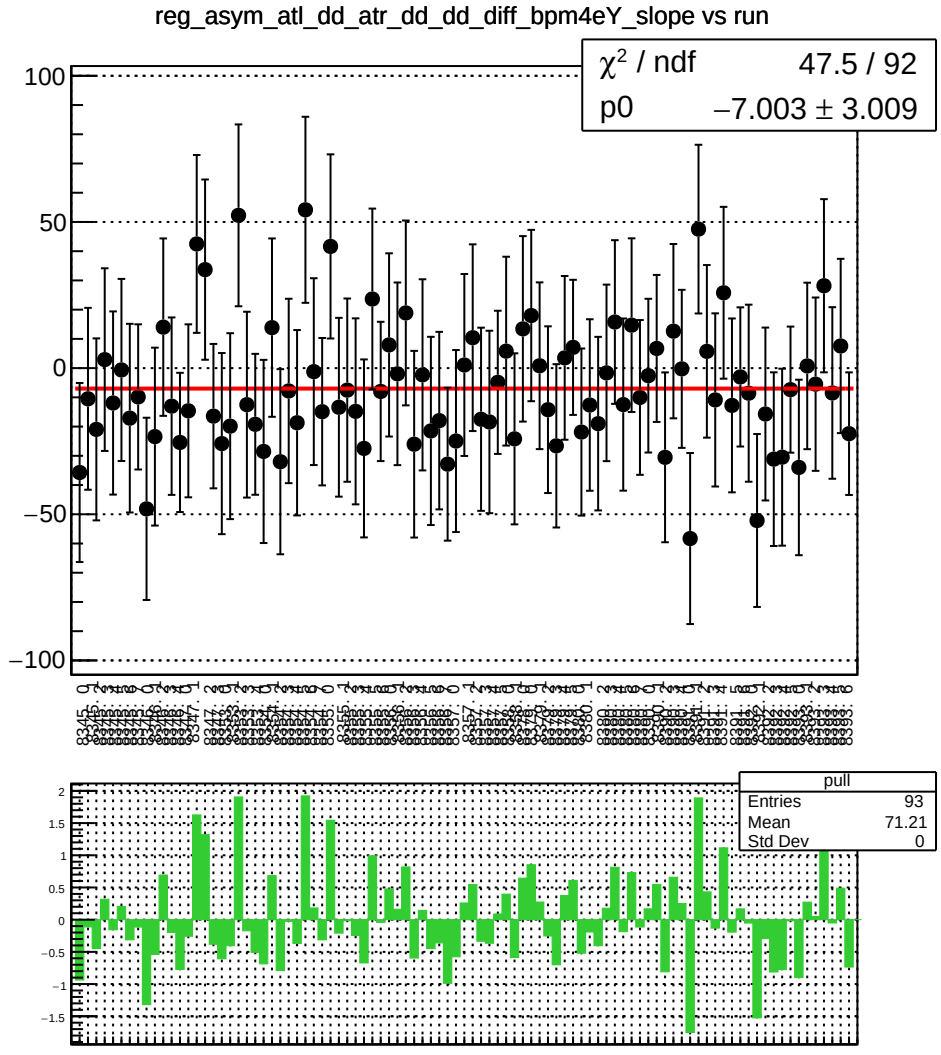

pull1D
Entries 93
Mean 0.02428
Std Dev 0.7047

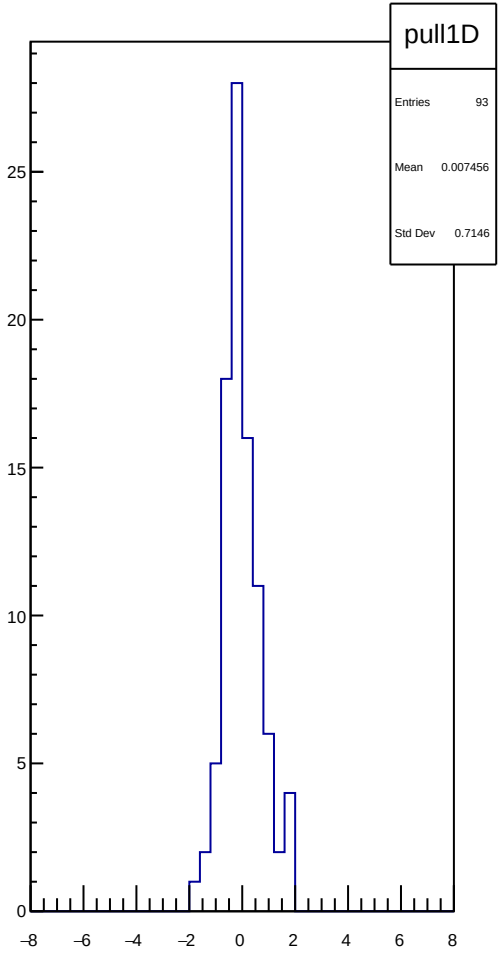

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 49.37 / 92
p0 5.283 ± 2.843
pull
Entries 93
Mean 694.6
Std Dev 0

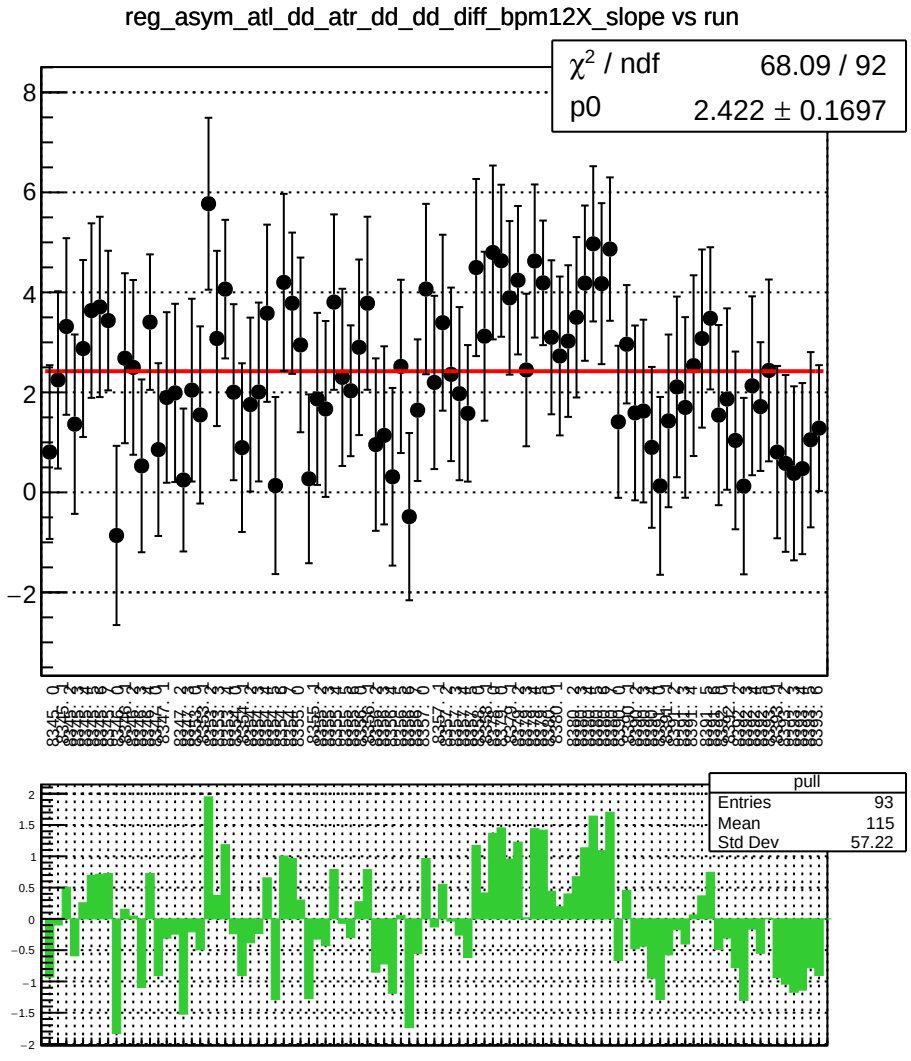

pull1D
Entries 93
Mean −0.001354
Std Dev 0.7286

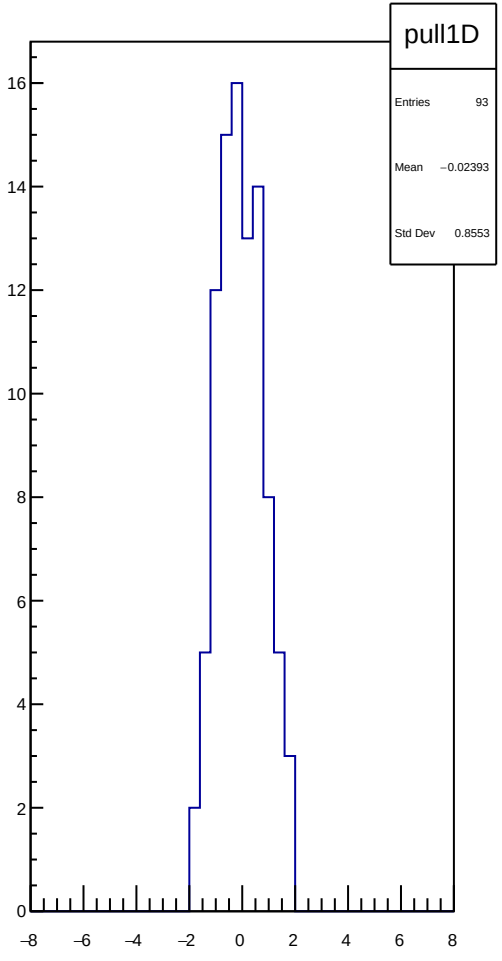

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 47.06 / 92
p0 57.94 ± 1.797
pull
Entries 93
Mean 149.8
Std Dev 0

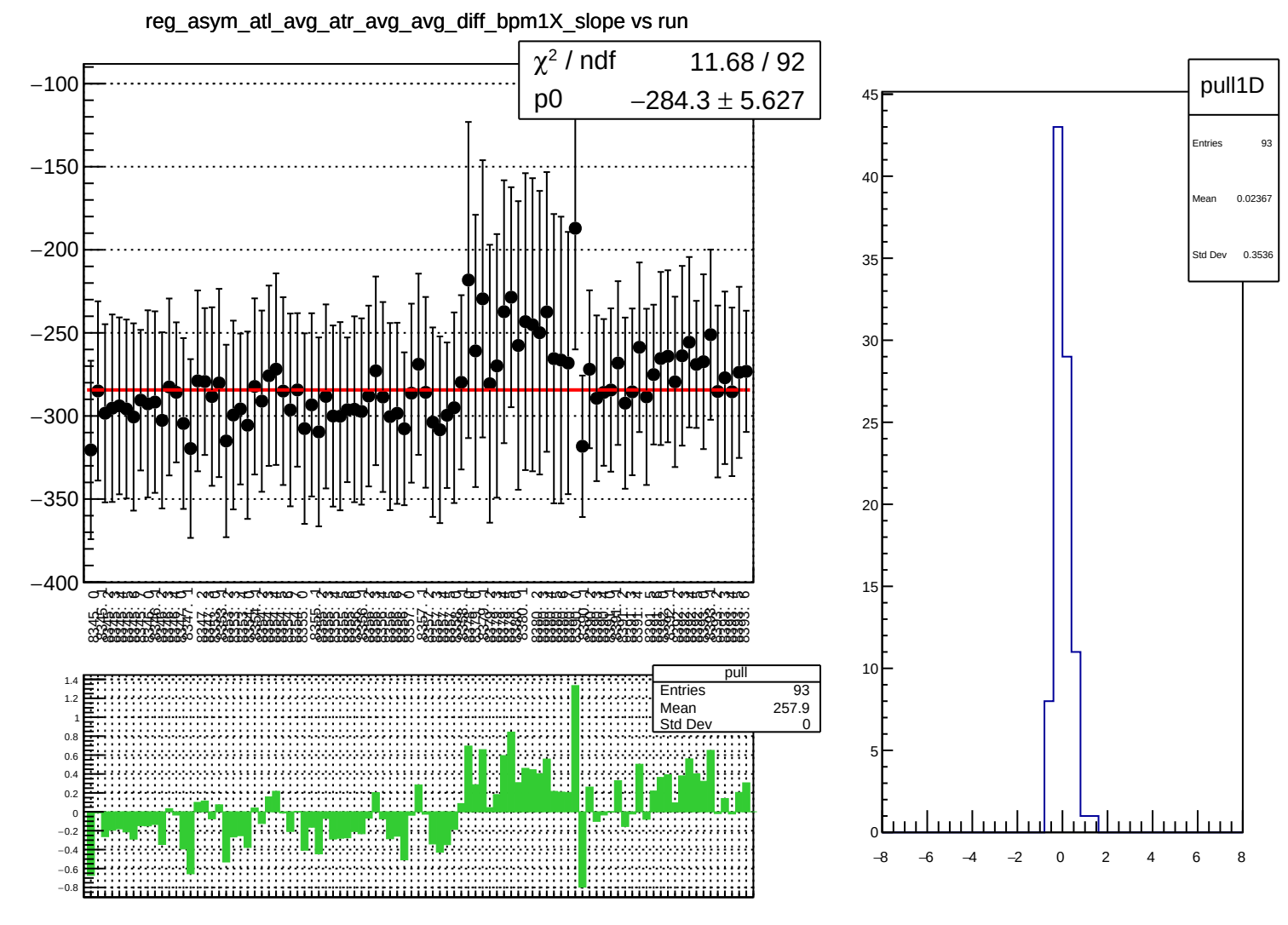

pull1D
Entries 93
Mean −0.01669
Std Dev 0.7111

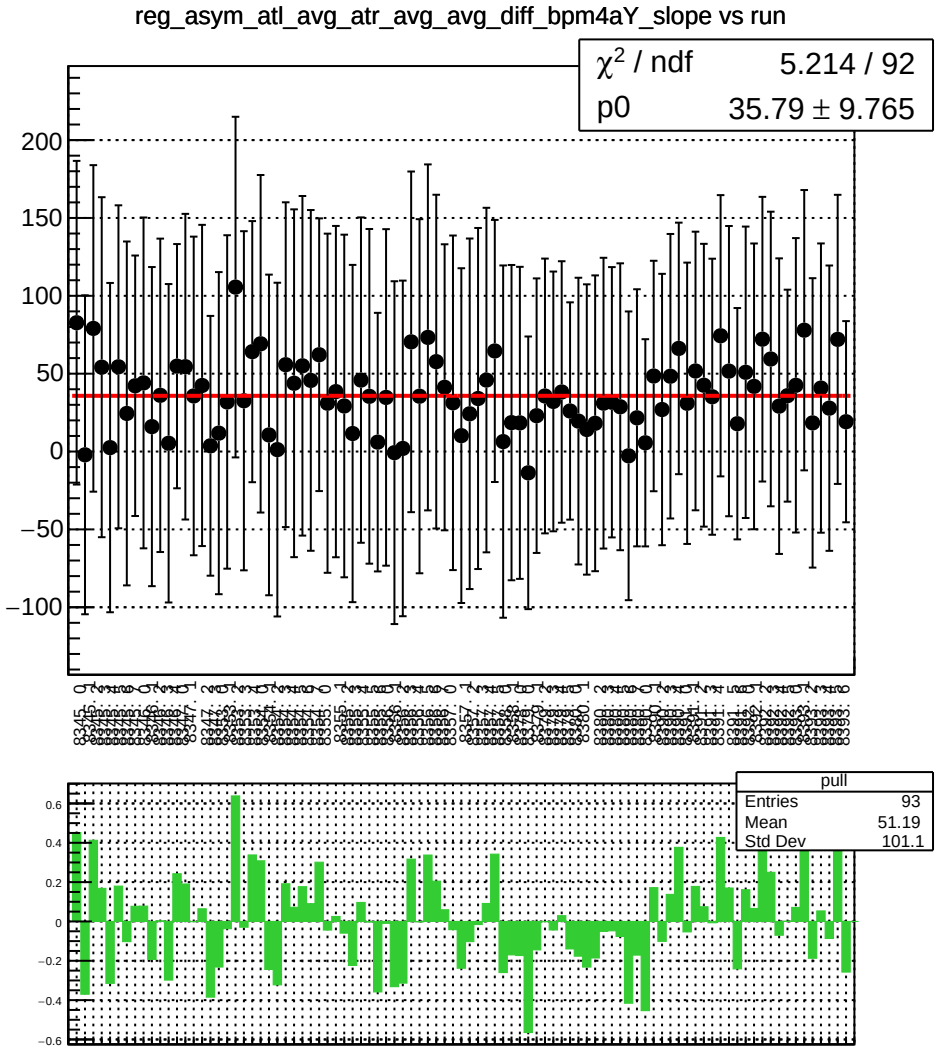

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 47.5 / 92
p0 −7.003 ± 3.009
pull
Entries 93
Mean 71.21
Std Dev 0

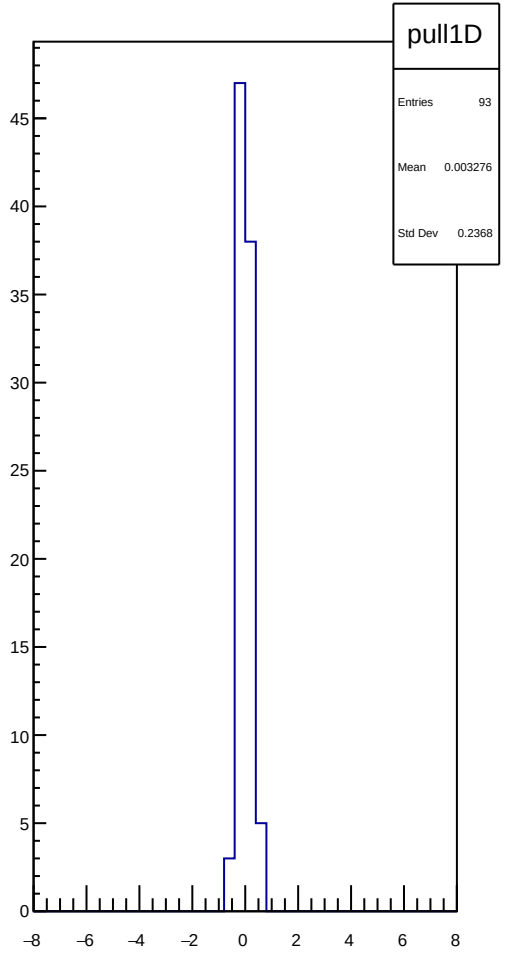

pull1D
Entries 93
Mean 0.007456
Std Dev 0.7146

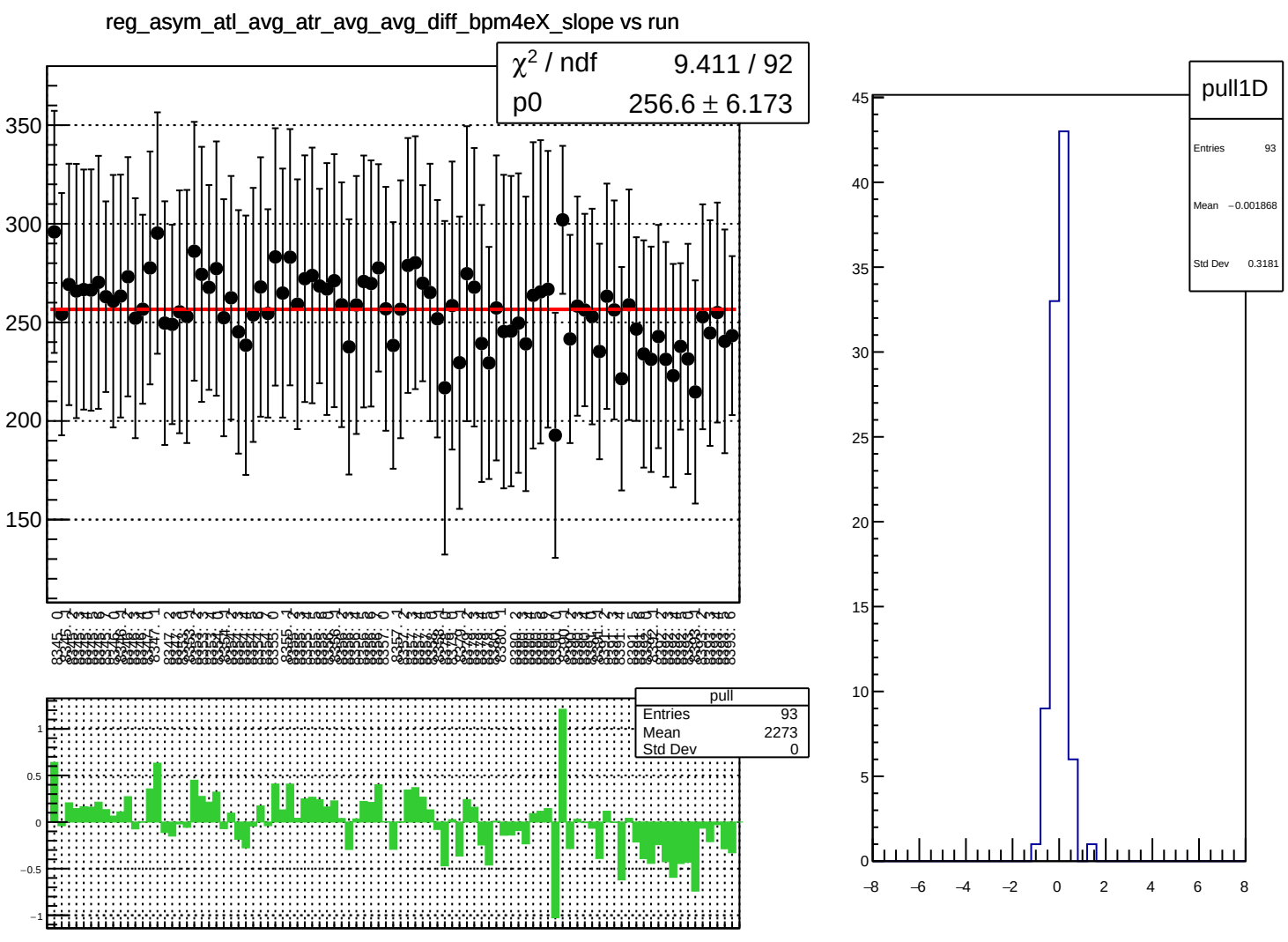

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 68.09 / 92
p0 2.422 ± 0.1697
pull
Entries 93
Mean 115
Std Dev 57.22

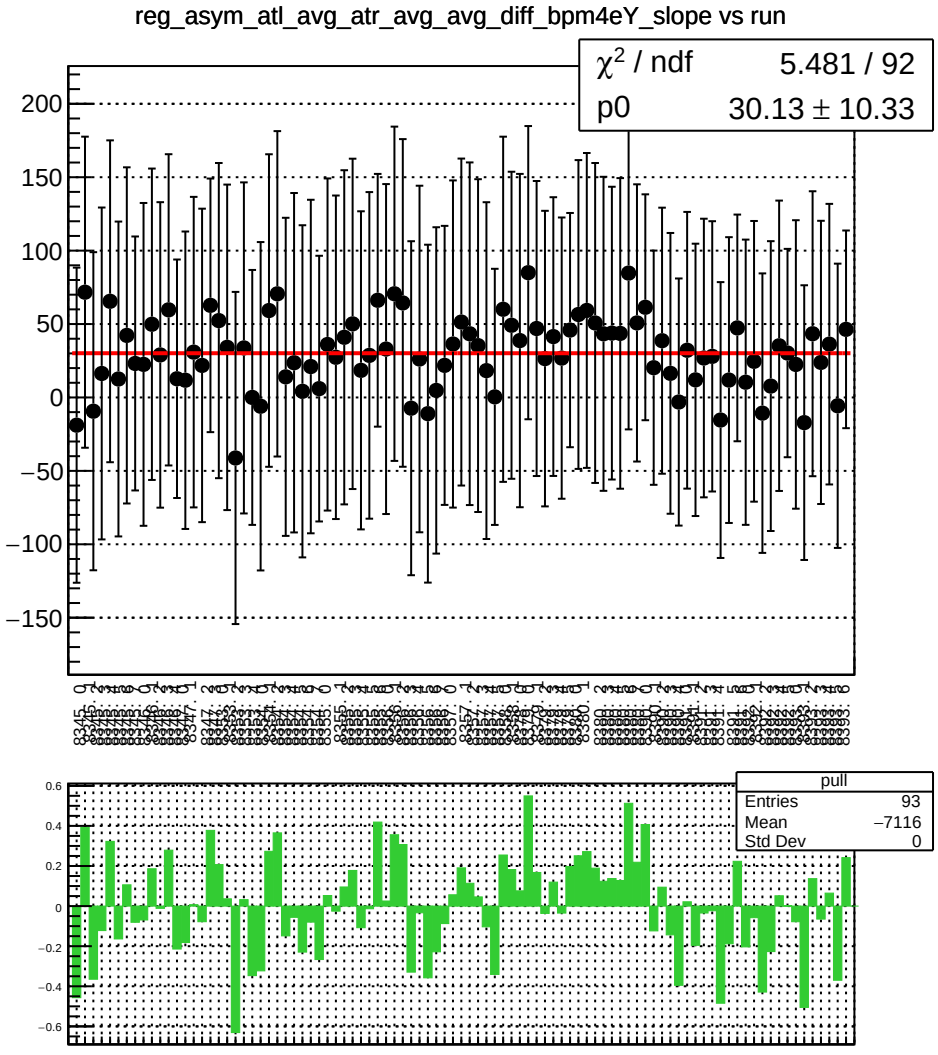

pull1D
Entries 93
Mean −0.02393
Std Dev 0.8553

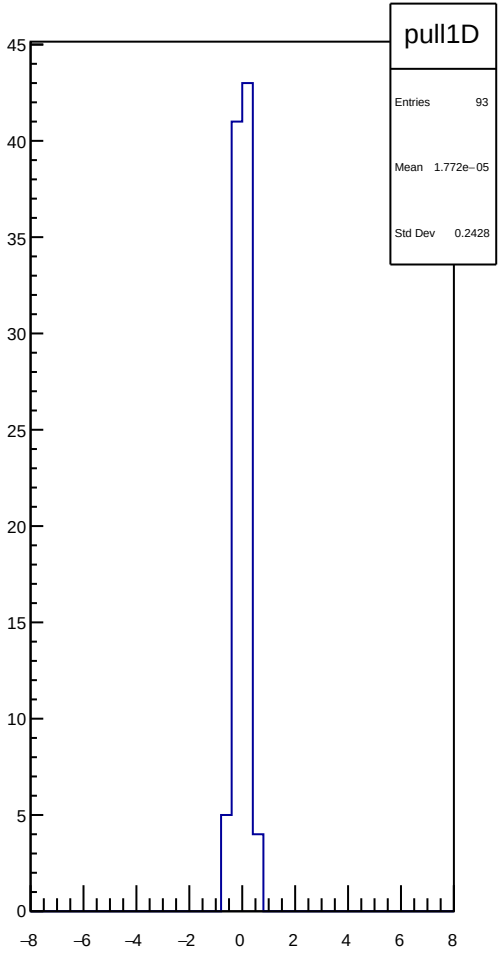

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 11.68 / 92
p0 −284.3 ± 5.627
pull
Entries 93
Mean 257.9
Std Dev 0
pull1D
Entries 93
Mean 0.02367
Std Dev 0.3536

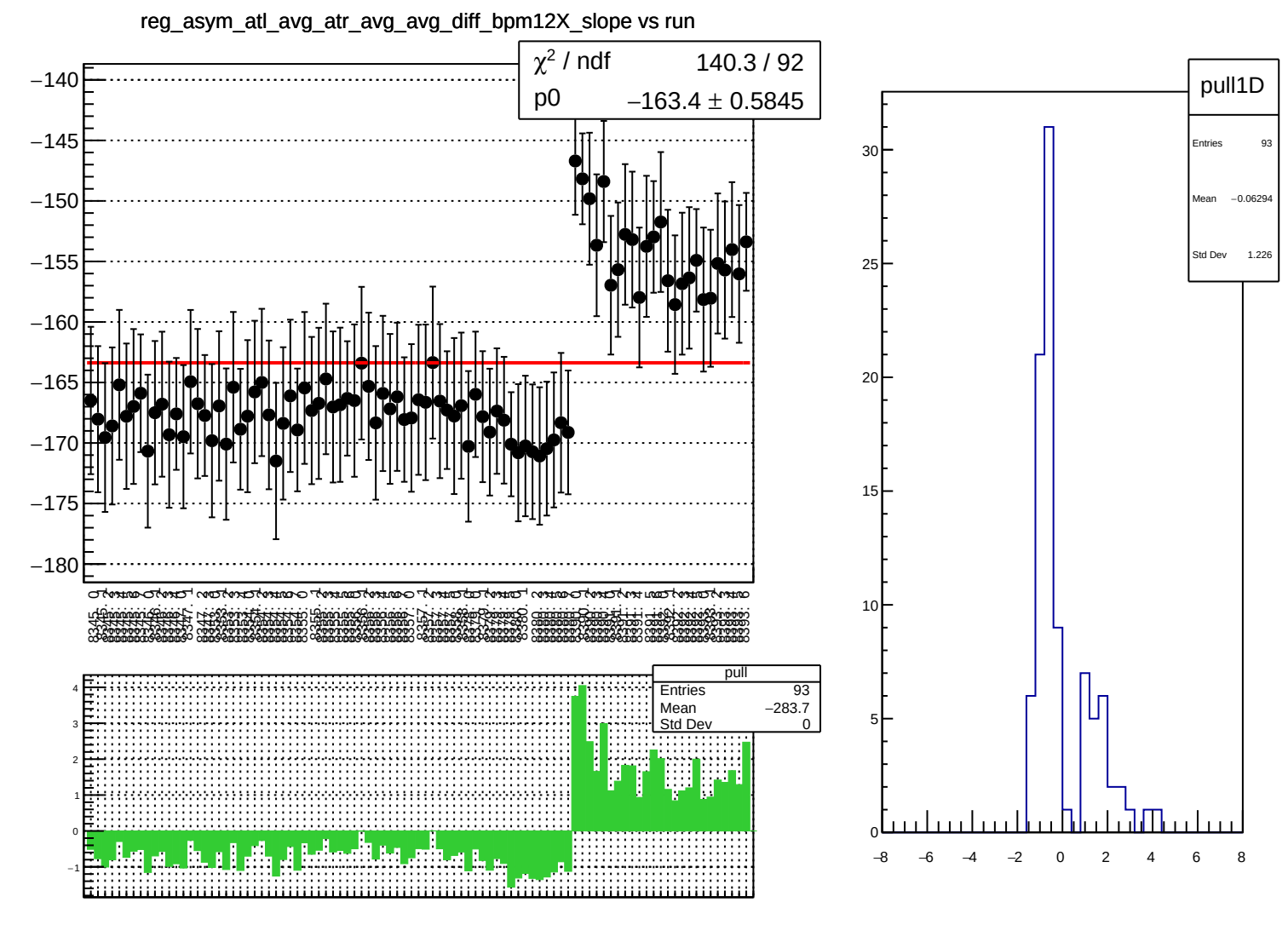

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.214 / 92
p0 35.79 ± 9.765
pull
Entries 93
Mean 51.19
Std Dev 101.1

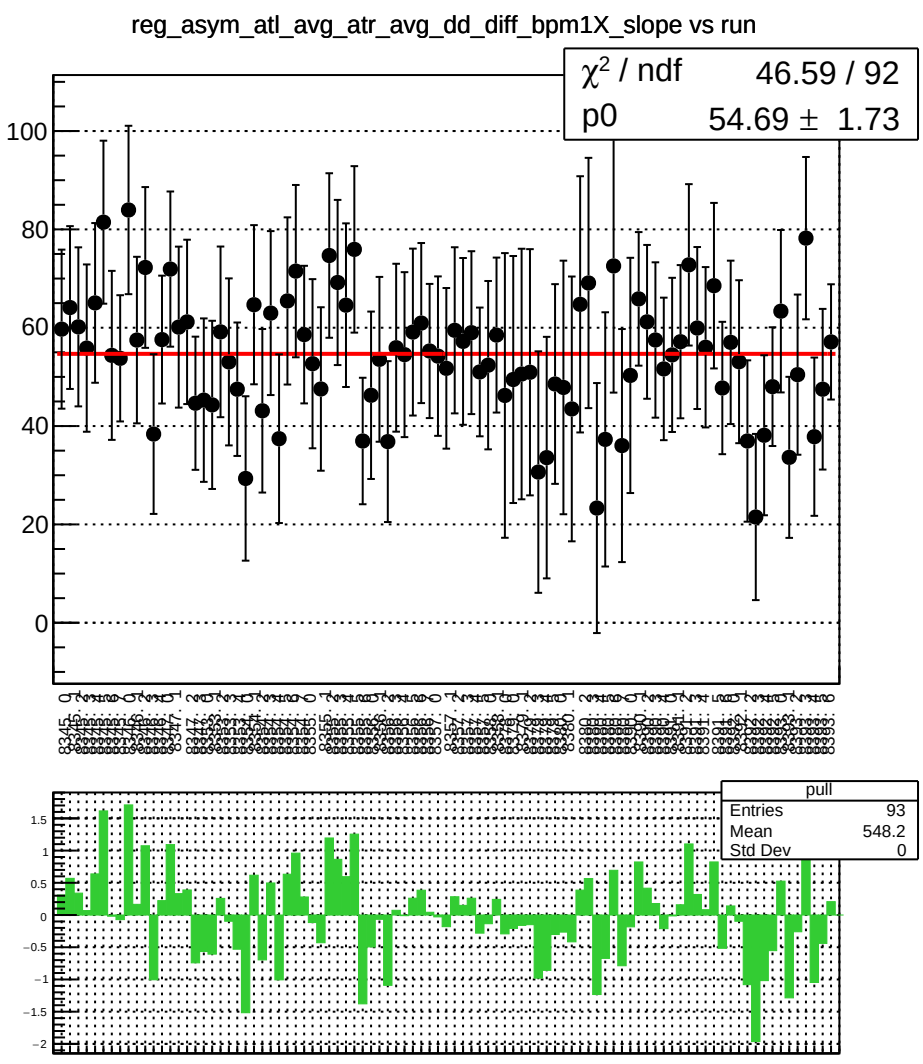

pull1D
Entries 93
Mean 0.003276
Std Dev 0.2368

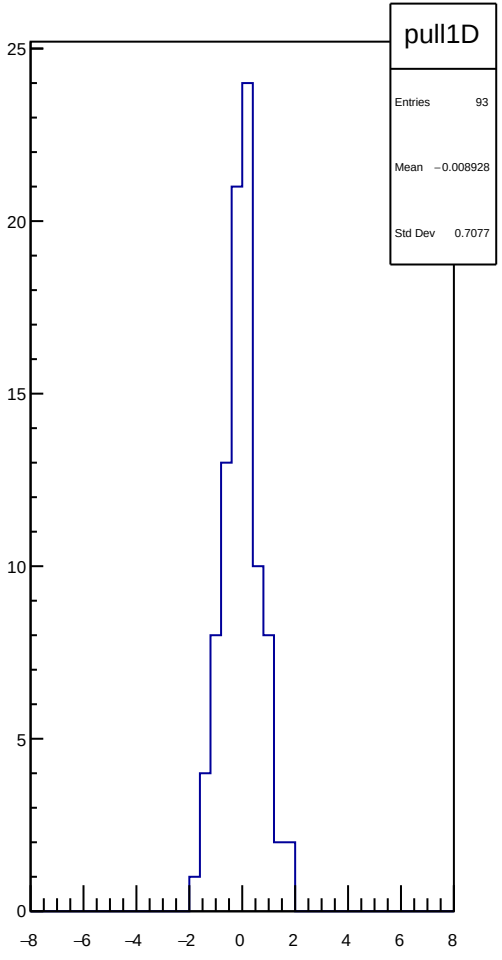

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.411 / 92
p0 256.6 ± 6.173
350
300
250
200
150
pull
Entries 93
Mean 2273
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 93
Mean −0.001868
Std Dev 0.3181
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

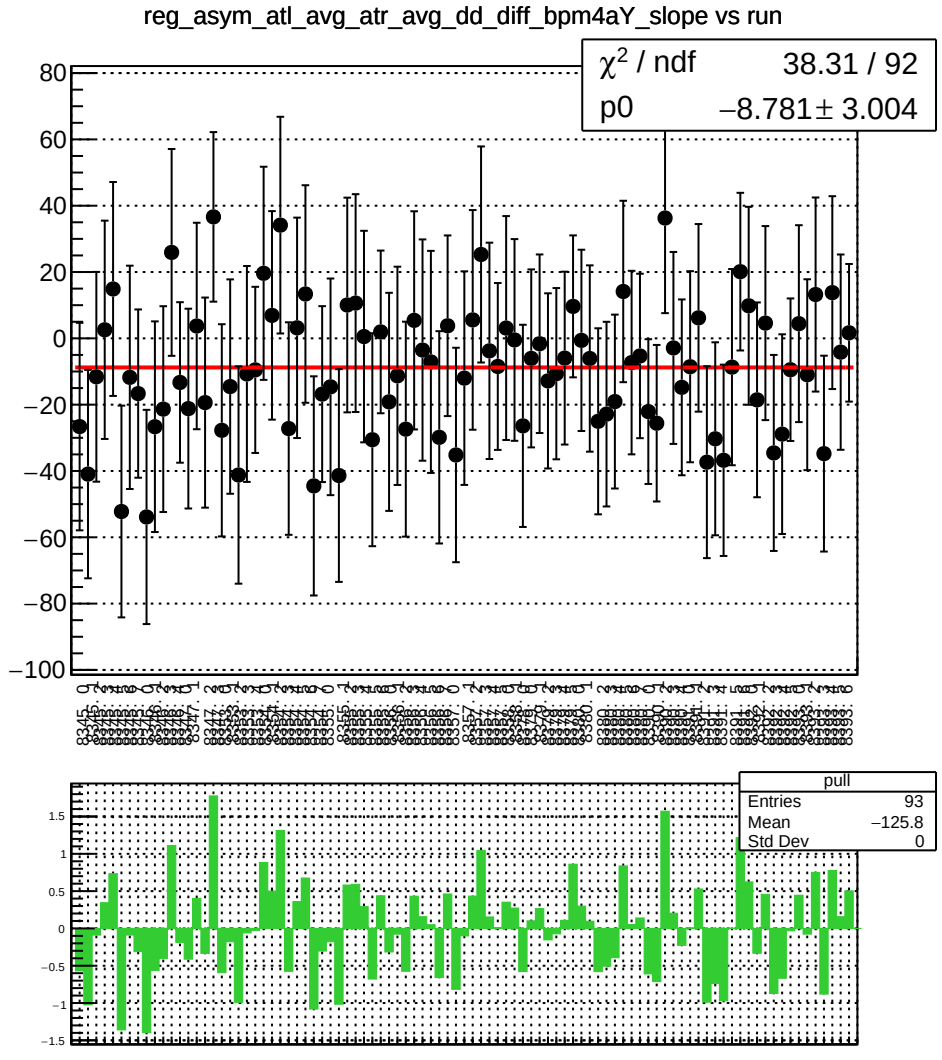

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.481 / 92
p0 30.13 ± 10.33
pull
Entries 93
Mean −7116
Std Dev 0

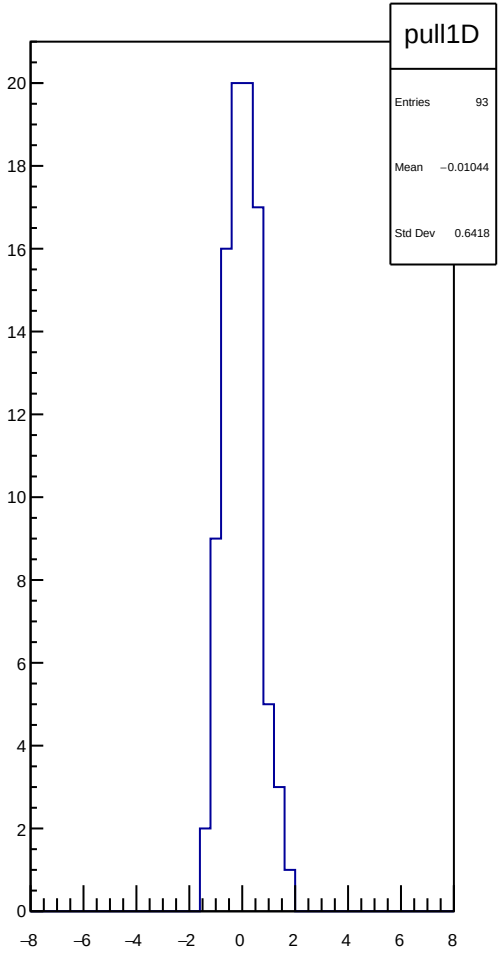

pull1D
Entries 93
Mean 1.772e−05
Std Dev 0.2428

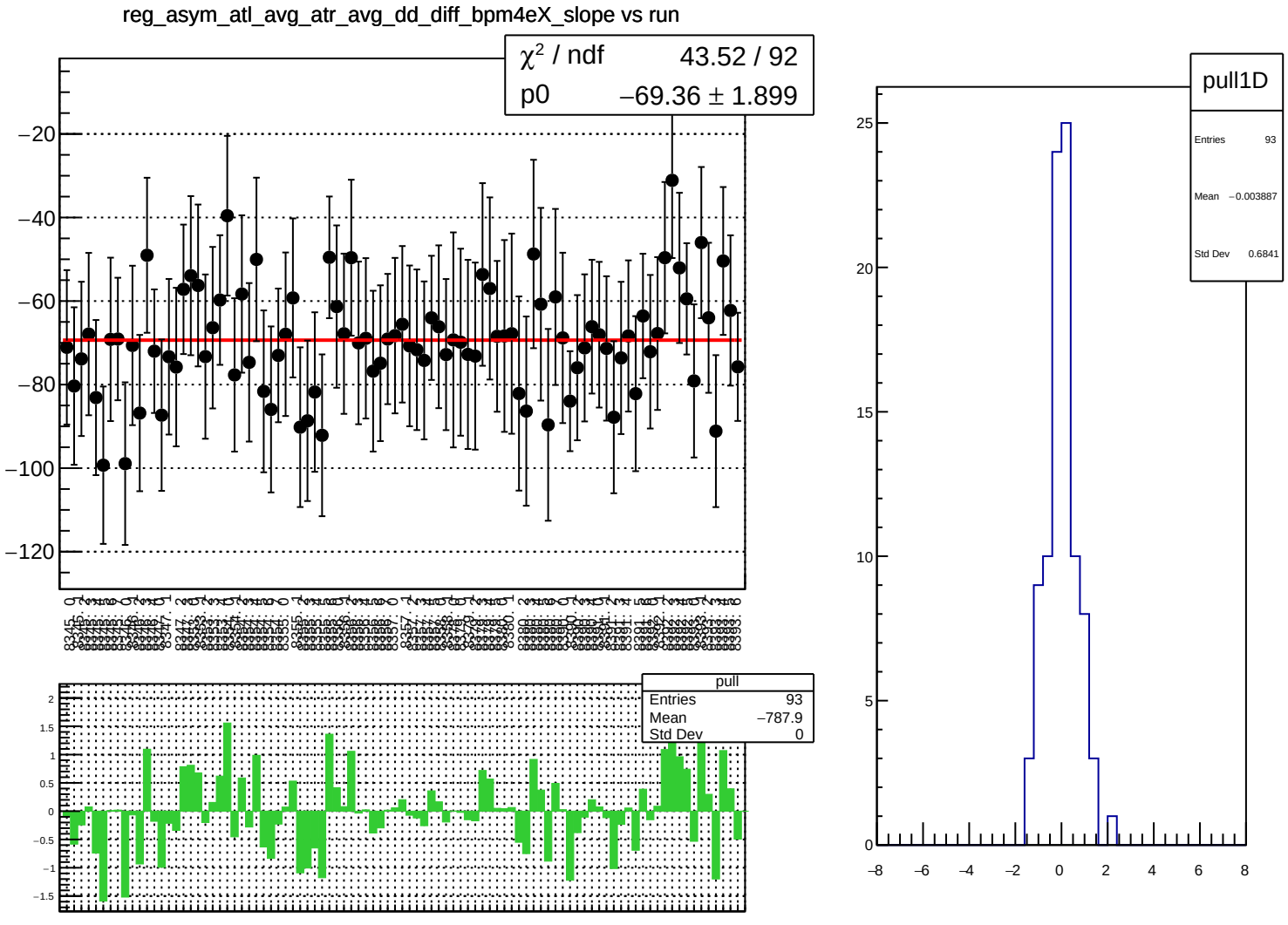

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 140.3 / 92
p0 −163.4 ± 0.5845
pull
Entries 93
Mean −283.7
Std Dev 0
pull1D
Entries 93
Mean −0.06294
Std Dev 1.226

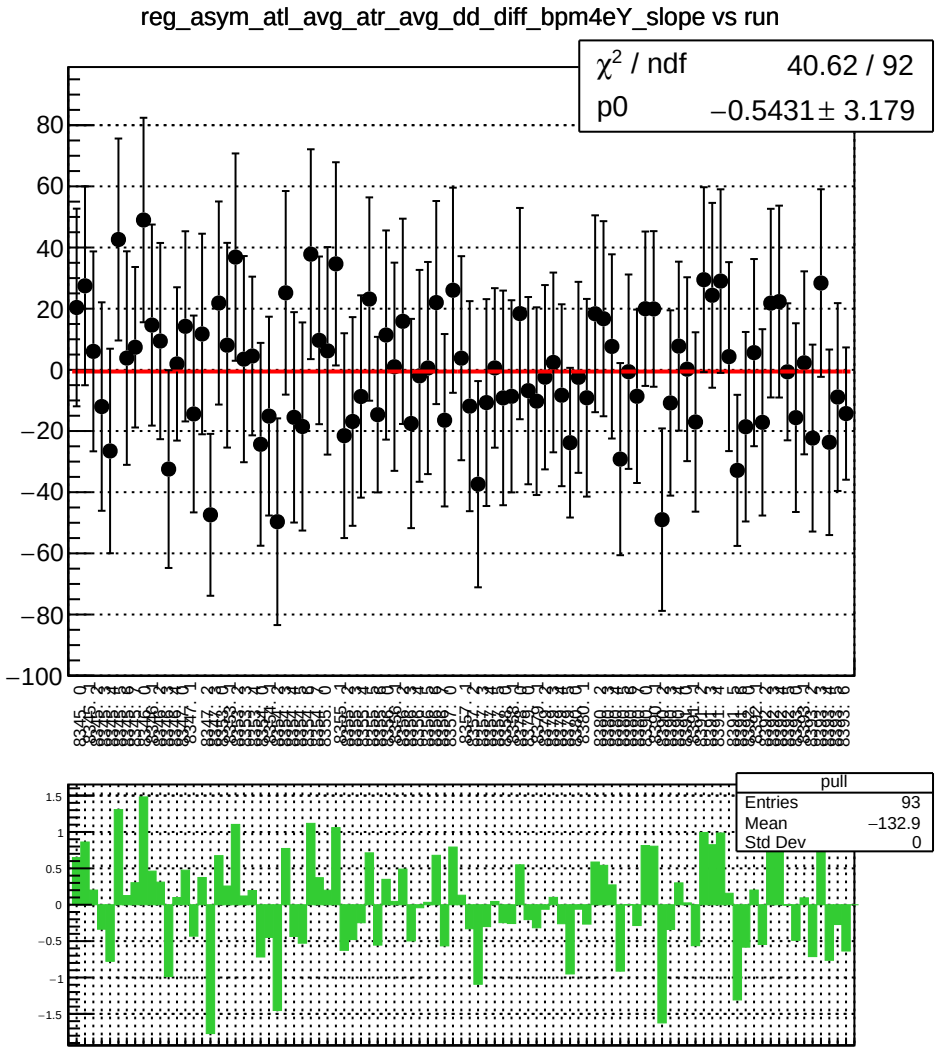

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 46.59 / 92
p0 54.69 ± 1.73
pull
Entries 93
Mean 548.2
Std Dev 0

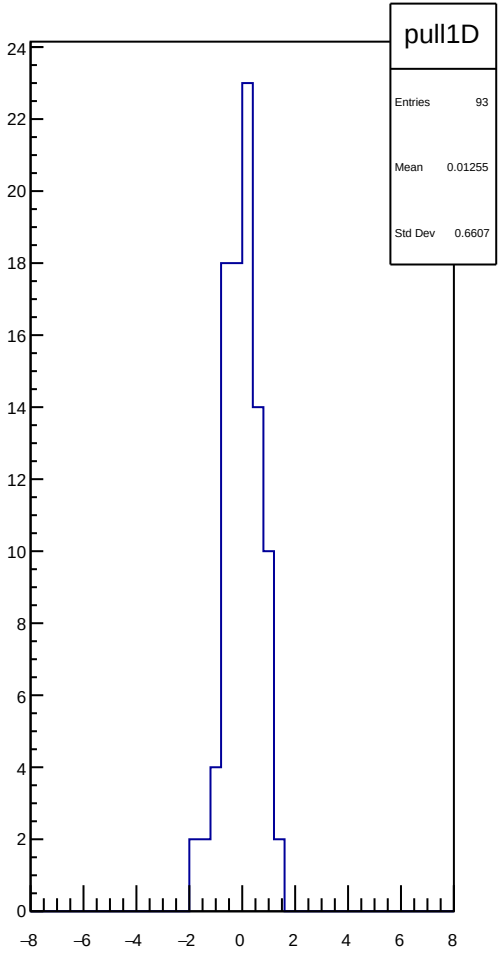

pull1D
Entries 93
Mean −0.008928
Std Dev 0.7077

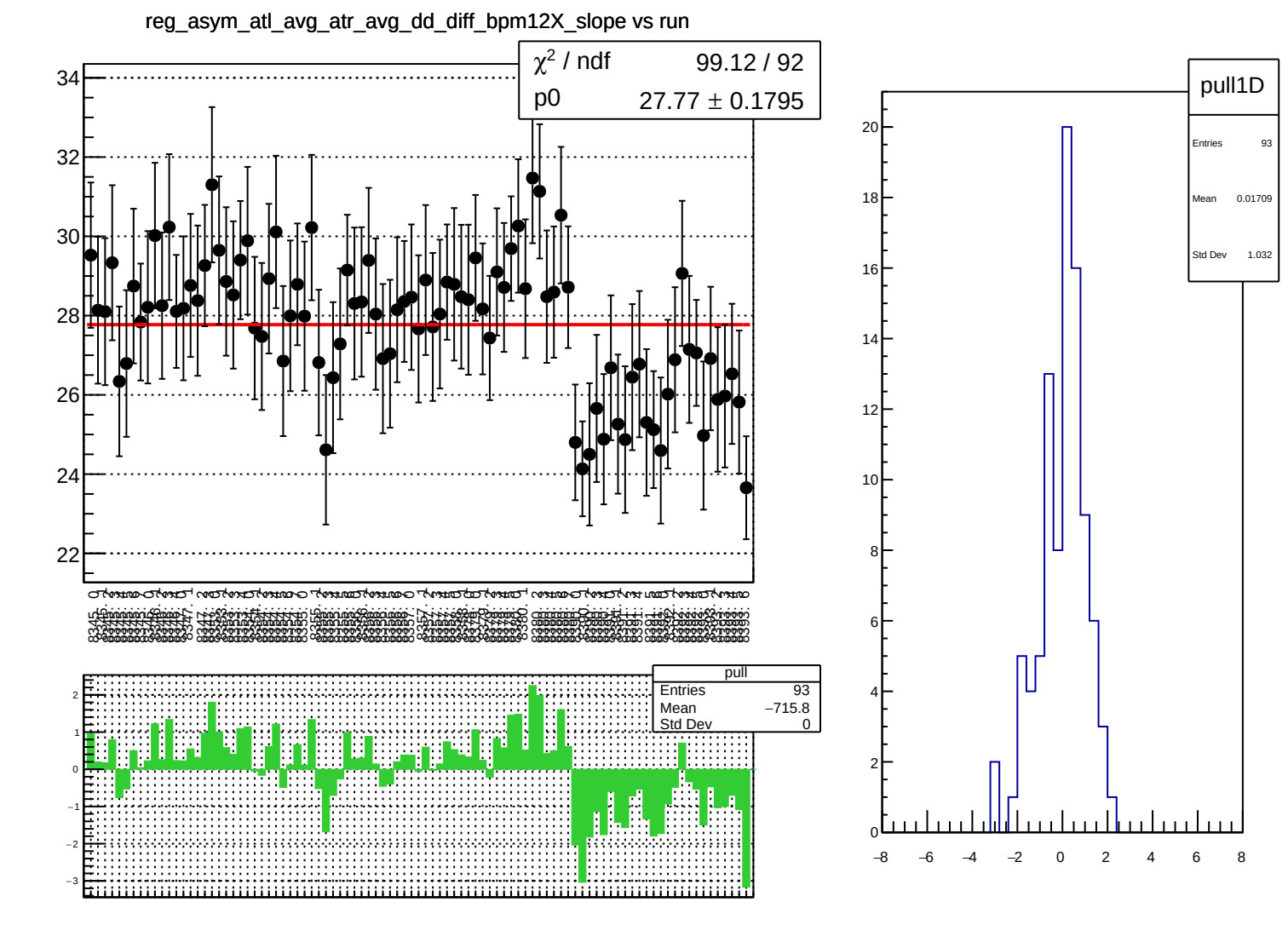

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 38.31 / 92
p0 −8.781 ± 3.004
pull
Entries 93
Mean −125.8
Std Dev 0

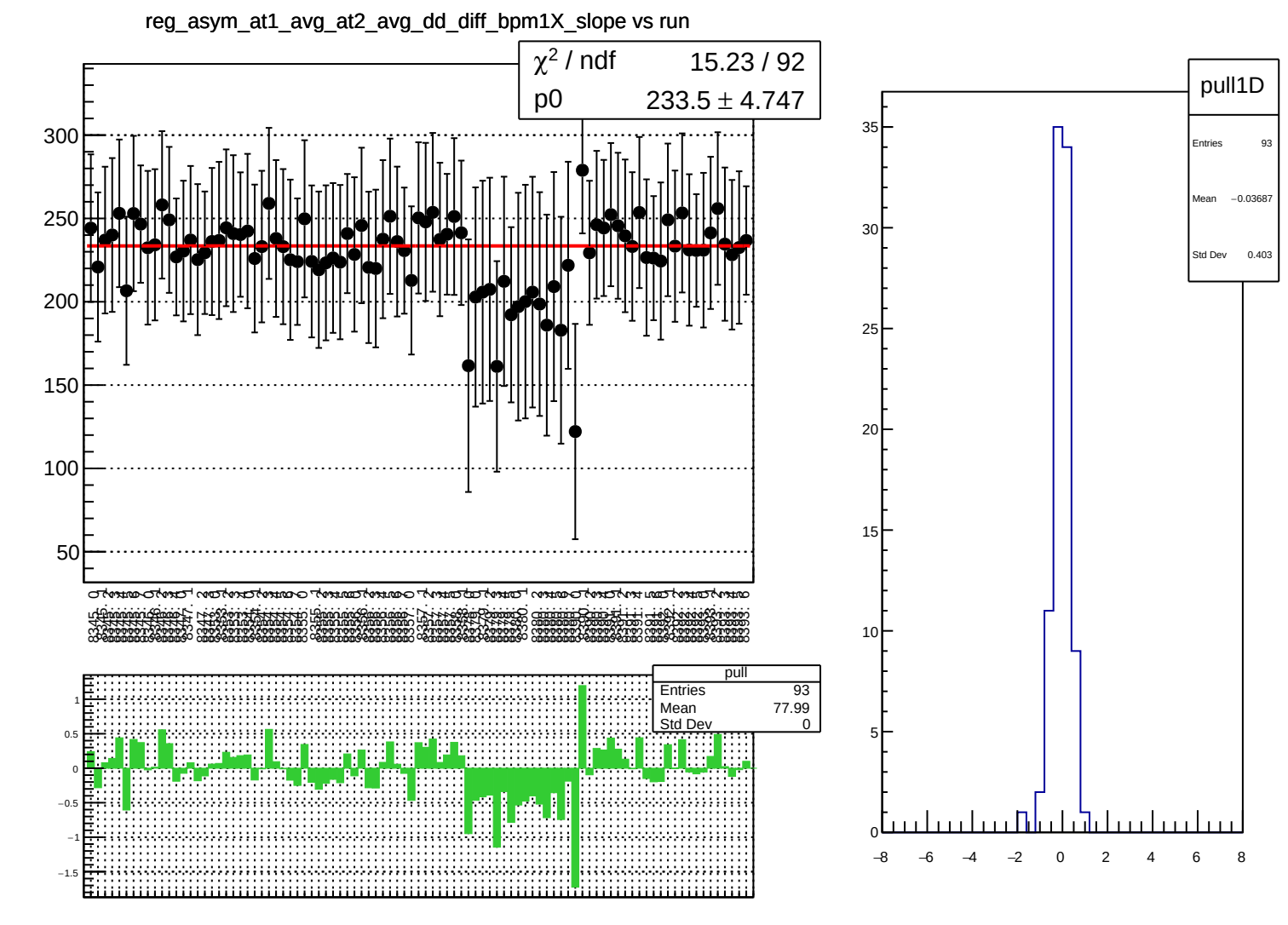

pull1D
Entries 93
Mean −0.01044
Std Dev 0.6418

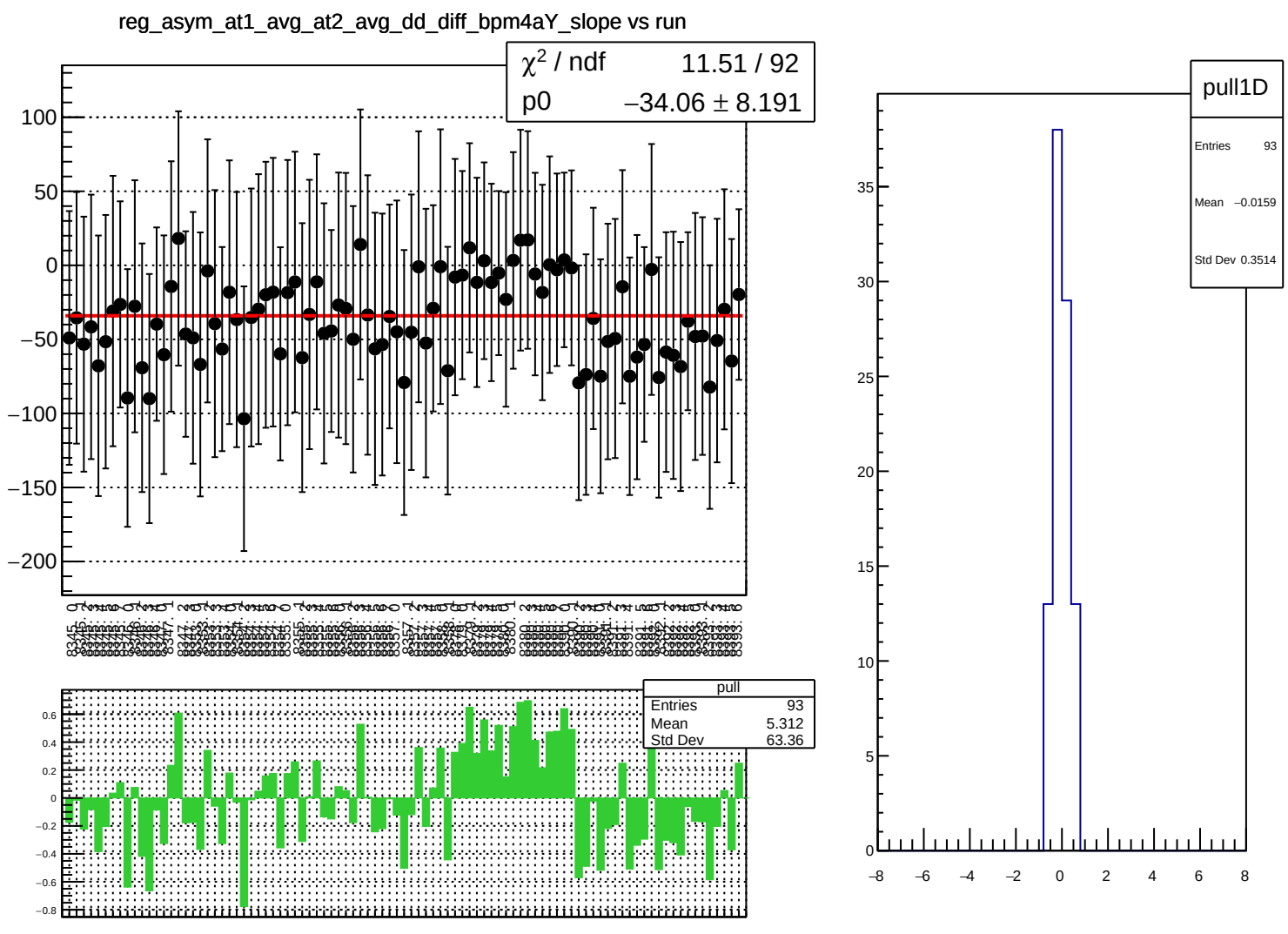

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 43.52 / 92
p0 −69.36 ± 1.899
pull
Entries 93
Mean −787.9
Std Dev 0
pull1D
Entries 93
Mean −0.003887
Std Dev 0.6841

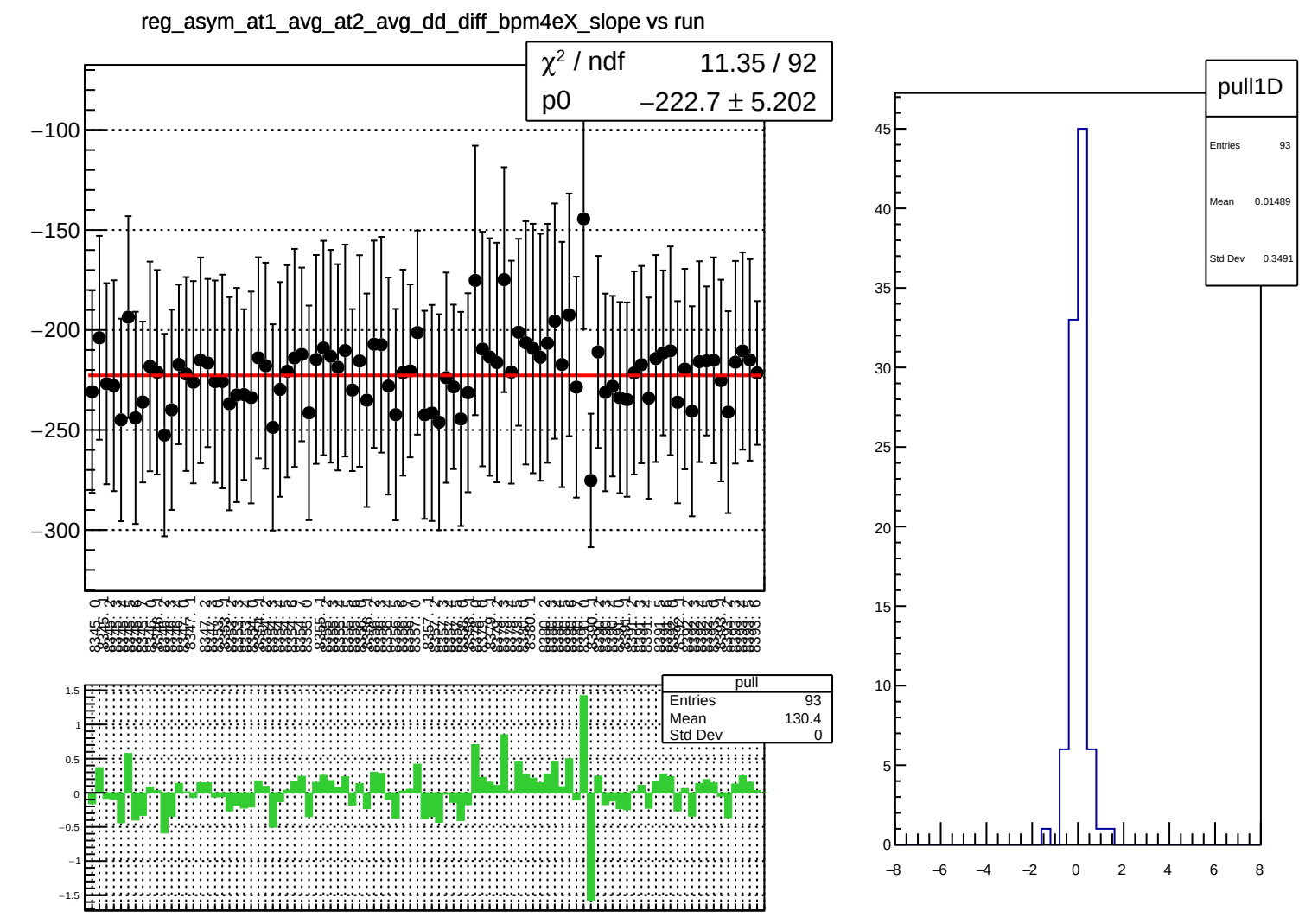

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 40.62 / 92
p0 −0.5431 ± 3.179
pull
Entries 93
Mean −132.9
Std Dev 0

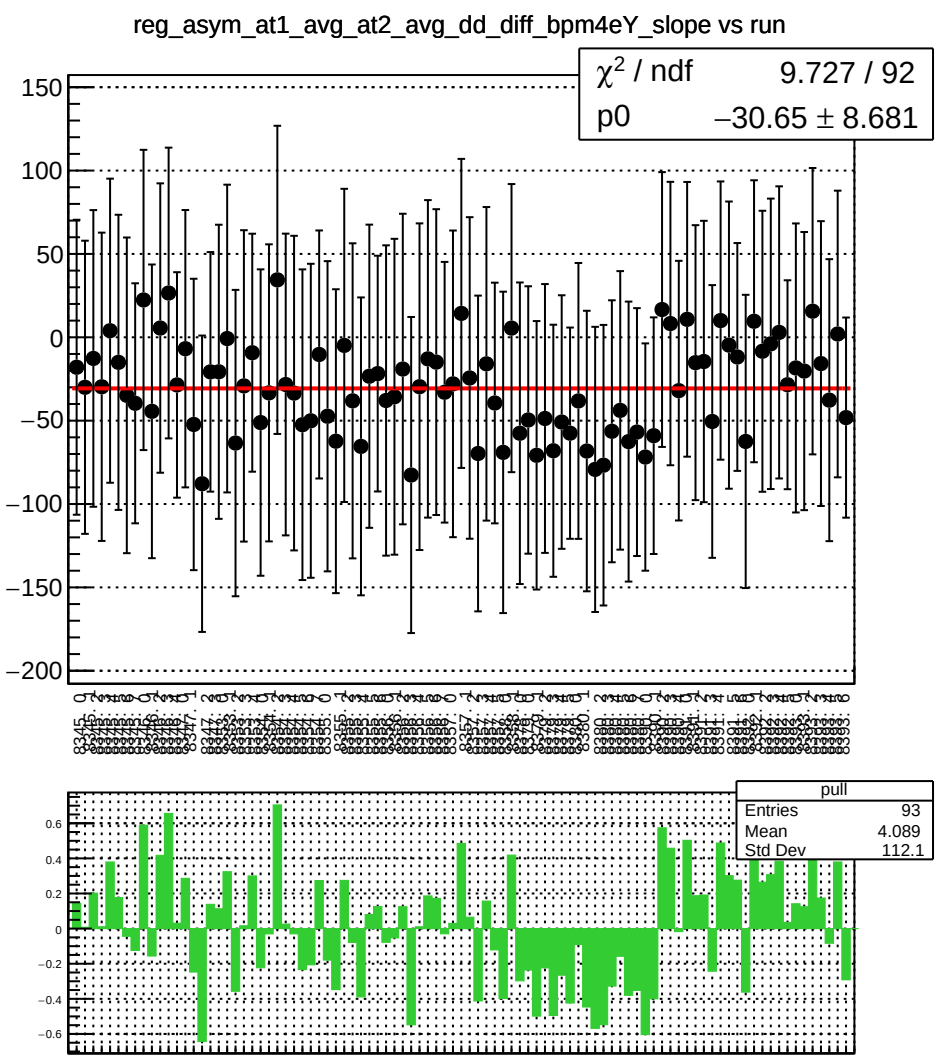

pull1D
Entries 93
Mean 0.01255
Std Dev 0.6607

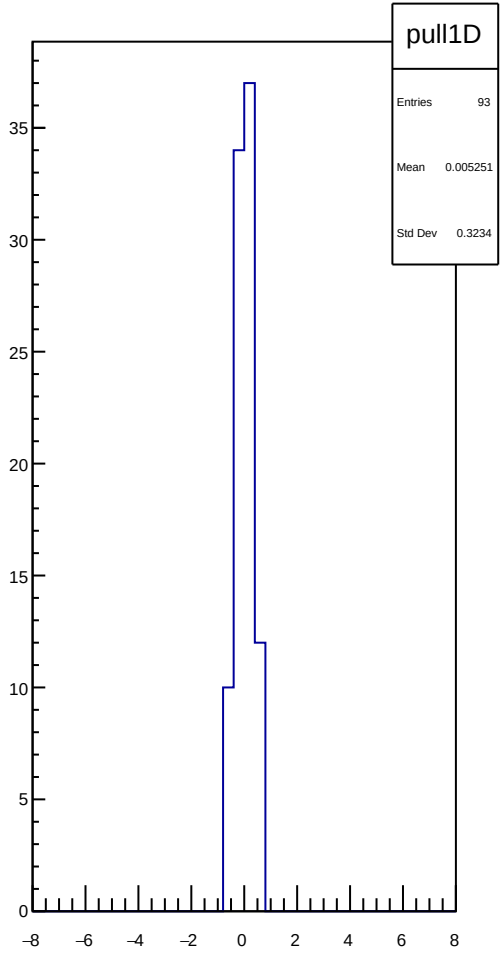

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 99.12 / 92
p0 27.77 ± 0.1795
pull
Entries 93
Mean −715.8
Std Dev 0
pull1D
Entries 93
Mean 0.01709
Std Dev 1.032

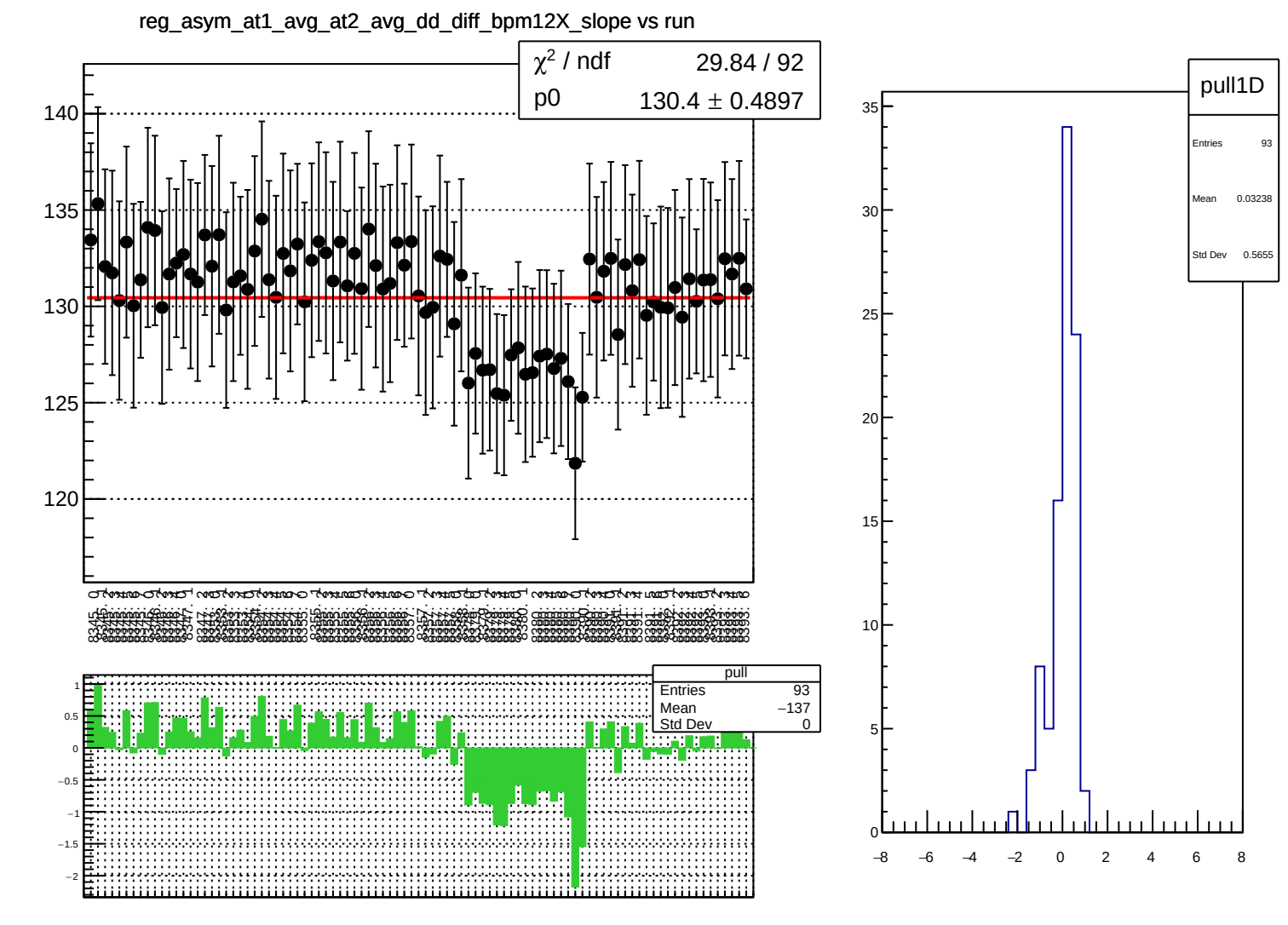

reg_asym_at1_avg_at2_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 15.23 / 92
p0 233.5 ± 4.747
300
250
200
150
100
50
pull
Entries 93
Mean 77.99
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean −0.03687
Std Dev 0.403
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

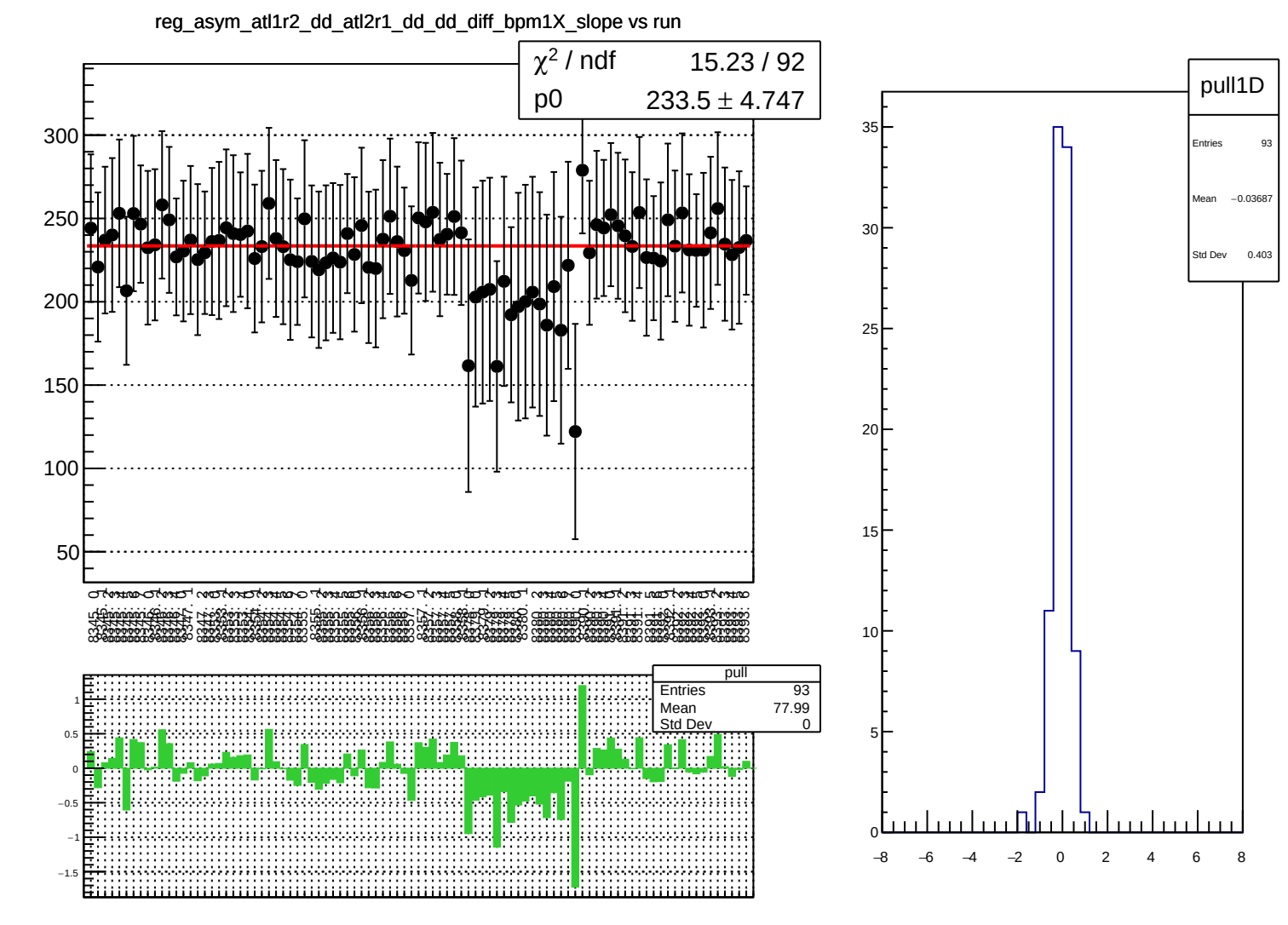

reg_asym_at1_avg_at2_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.51 / 92
p0 −34.06 ± 8.191
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean 5.312
Std Dev 63.36
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 93
Mean −0.0159
Std Dev 0.3514
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

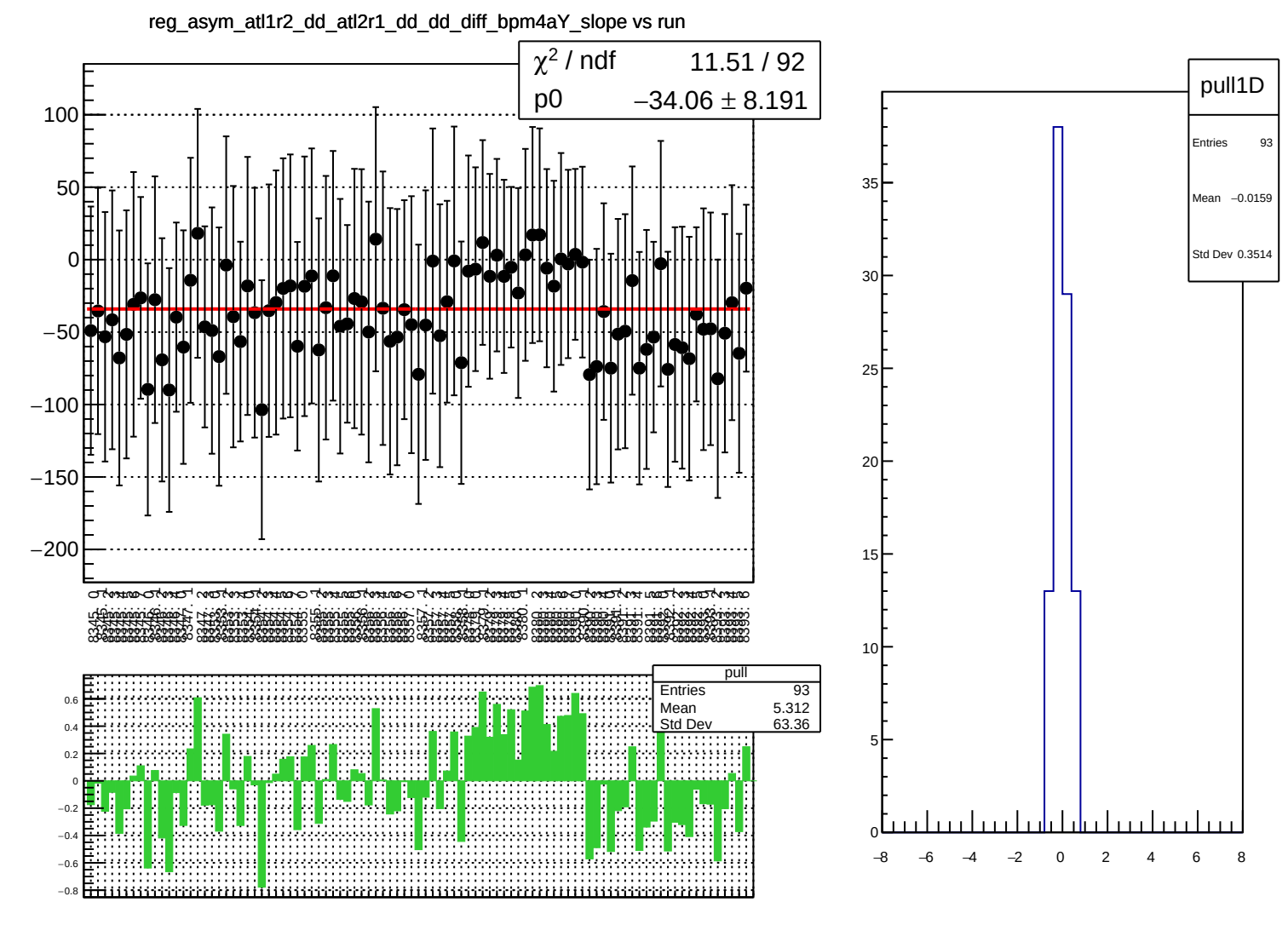

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 11.35 / 92
p0 −222.7 ± 5.202
pull
Entries 93
Mean 130.4
Std Dev 0
pull1D
Entries 93
Mean 0.01489
Std Dev 0.3491

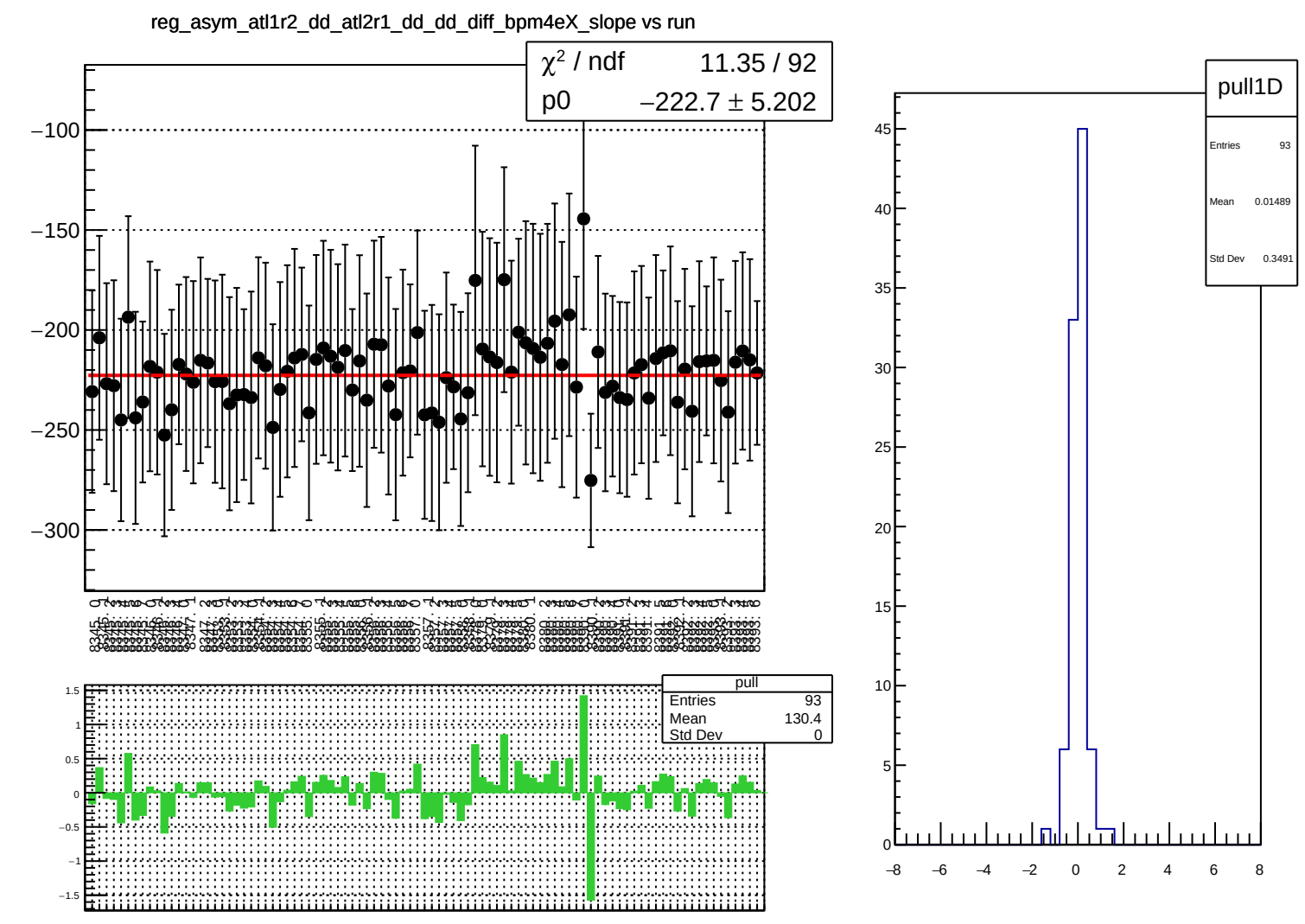

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.727 / 92
p0 −30.65 ± 8.681
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean 4.089
Std Dev 112.1
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

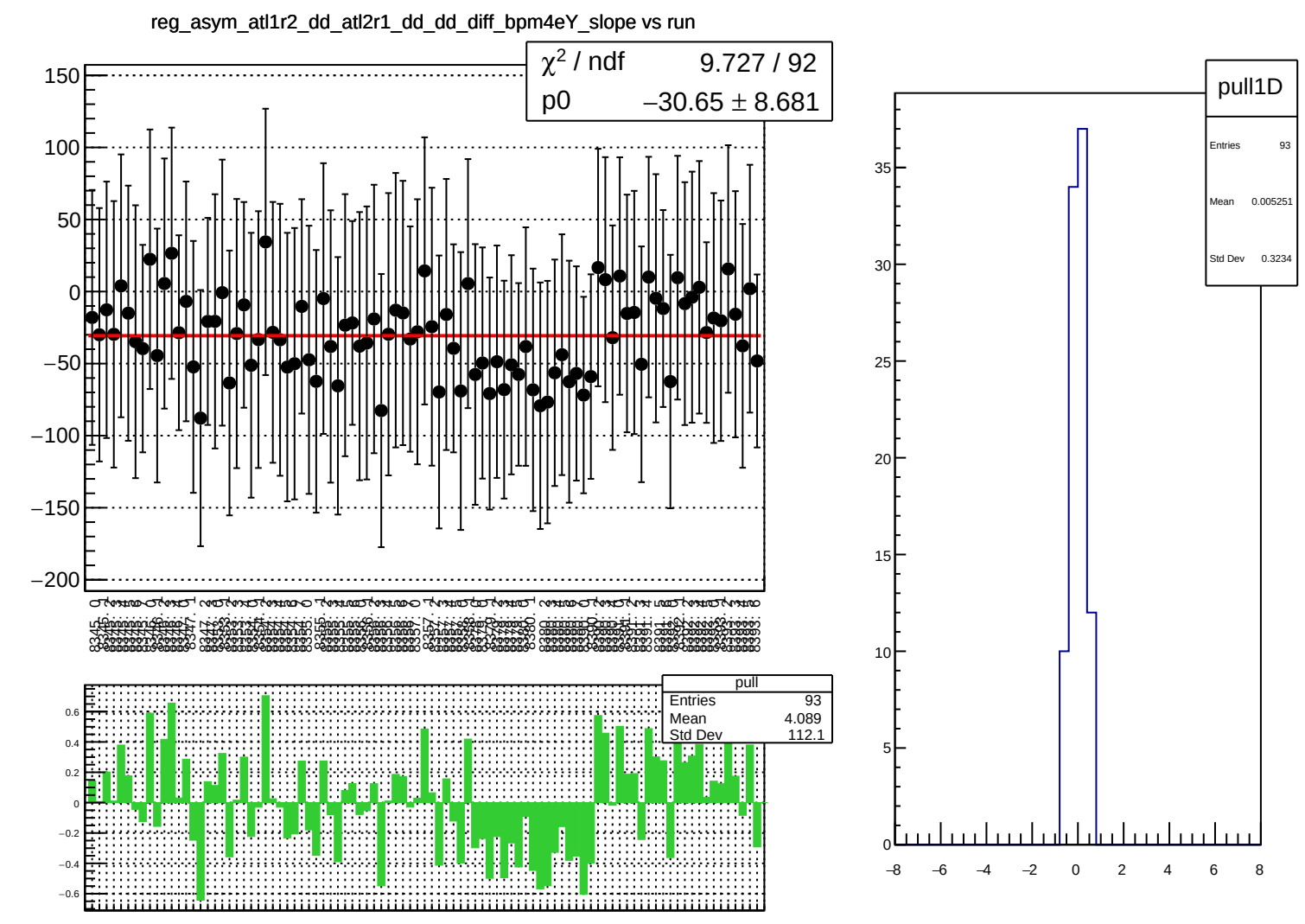

pull1D
Entries 93
Mean 0.005251
Std Dev 0.3234
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

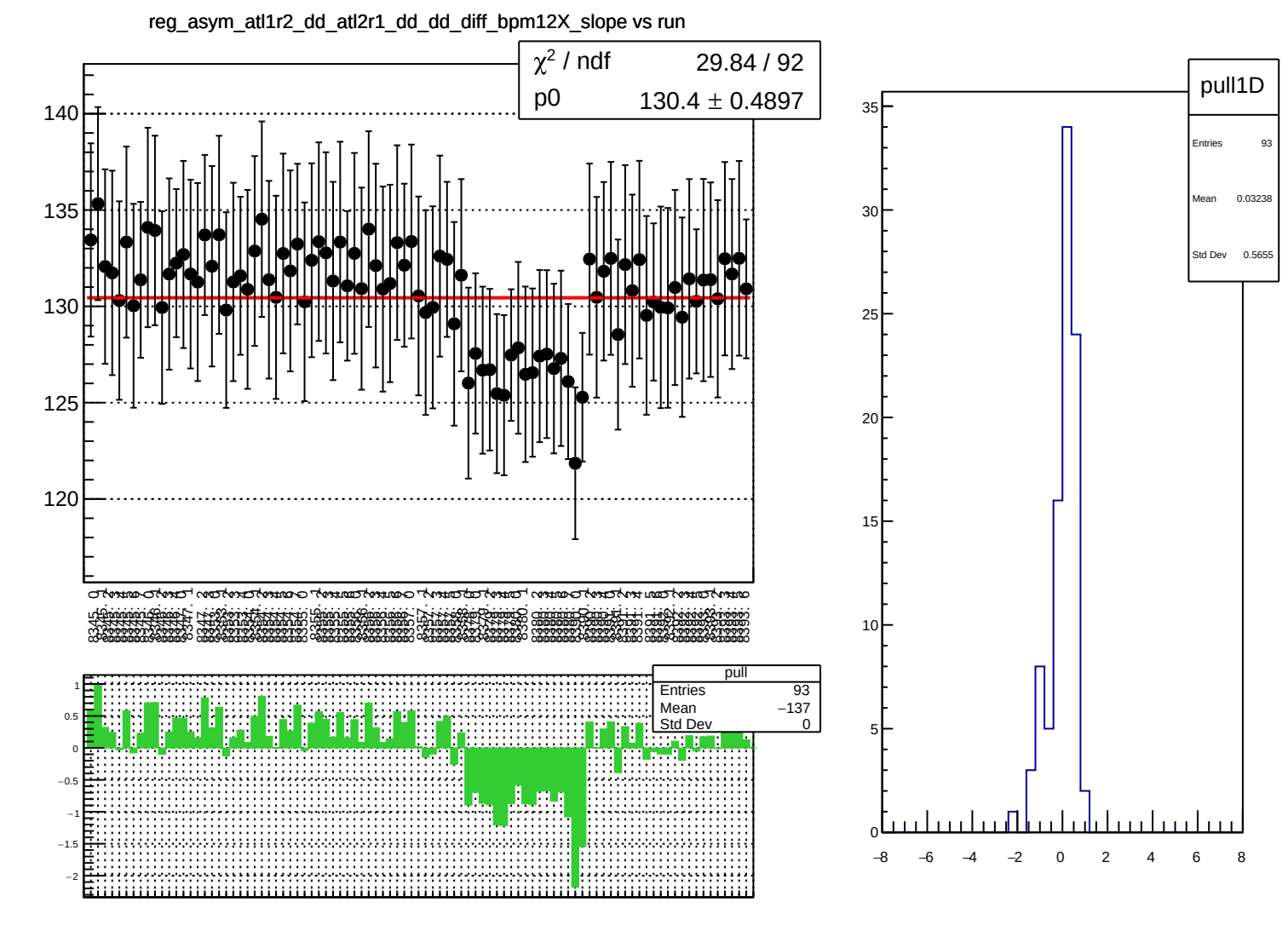

reg_asym_at1_avg_at2_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 29.84 / 92
p0 130.4 ± 0.4897
140
135
130
125
120
pull
Entries 93
Mean −137
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean 0.03238
Std Dev 0.5655
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

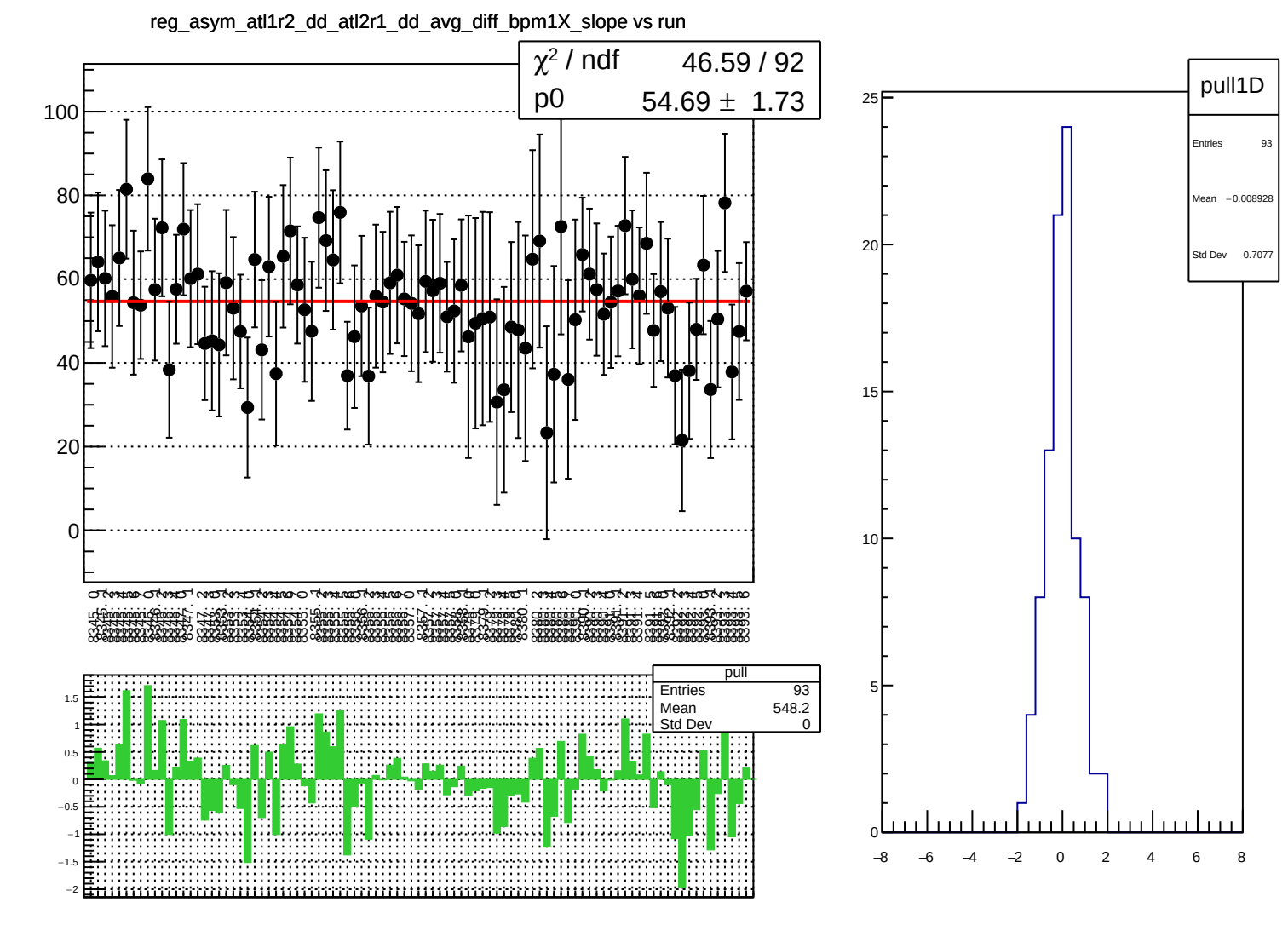

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 15.23 / 92
p0 233.5 ± 4.747
300
250
200
150
100
50
pull
Entries 93
Mean 77.99
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean −0.03687
Std Dev 0.403
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

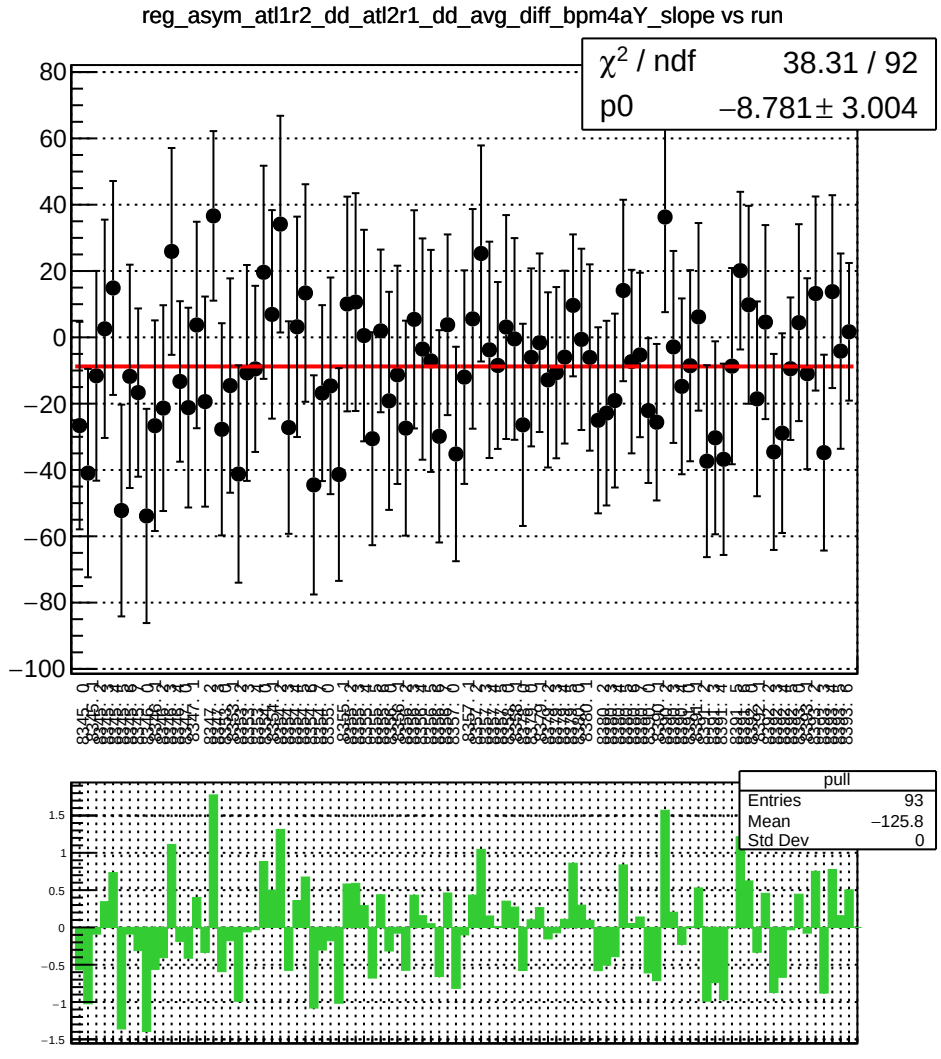

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.51 / 92
p0 −34.06 ± 8.191
pull
Entries 93
Mean 5.312
Std Dev 63.36
pull1D
Entries 93
Mean −0.0159
Std Dev 0.3514

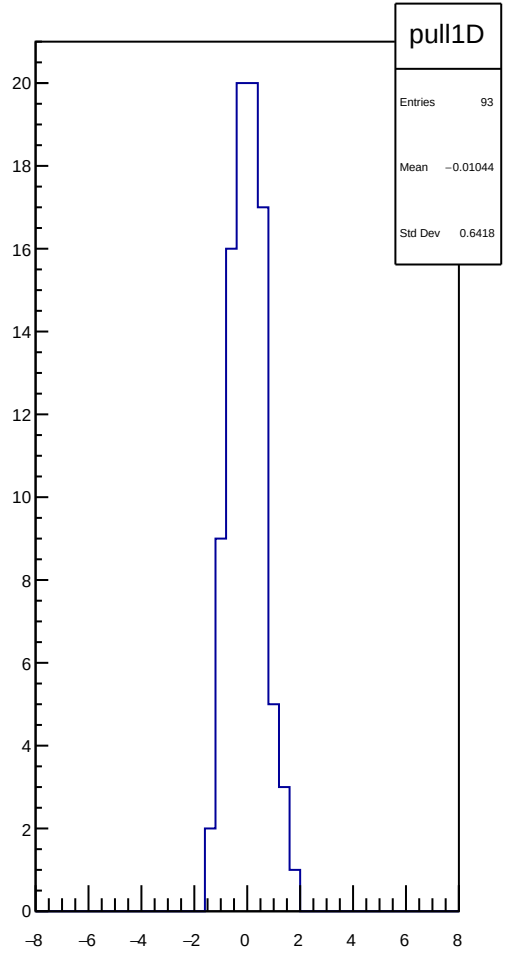

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 11.35 / 92
p0 −222.7 ± 5.202
−100
−150
−200
−250
−300
pull
Entries 93
Mean 130.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean 0.01489
Std Dev 0.3491
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

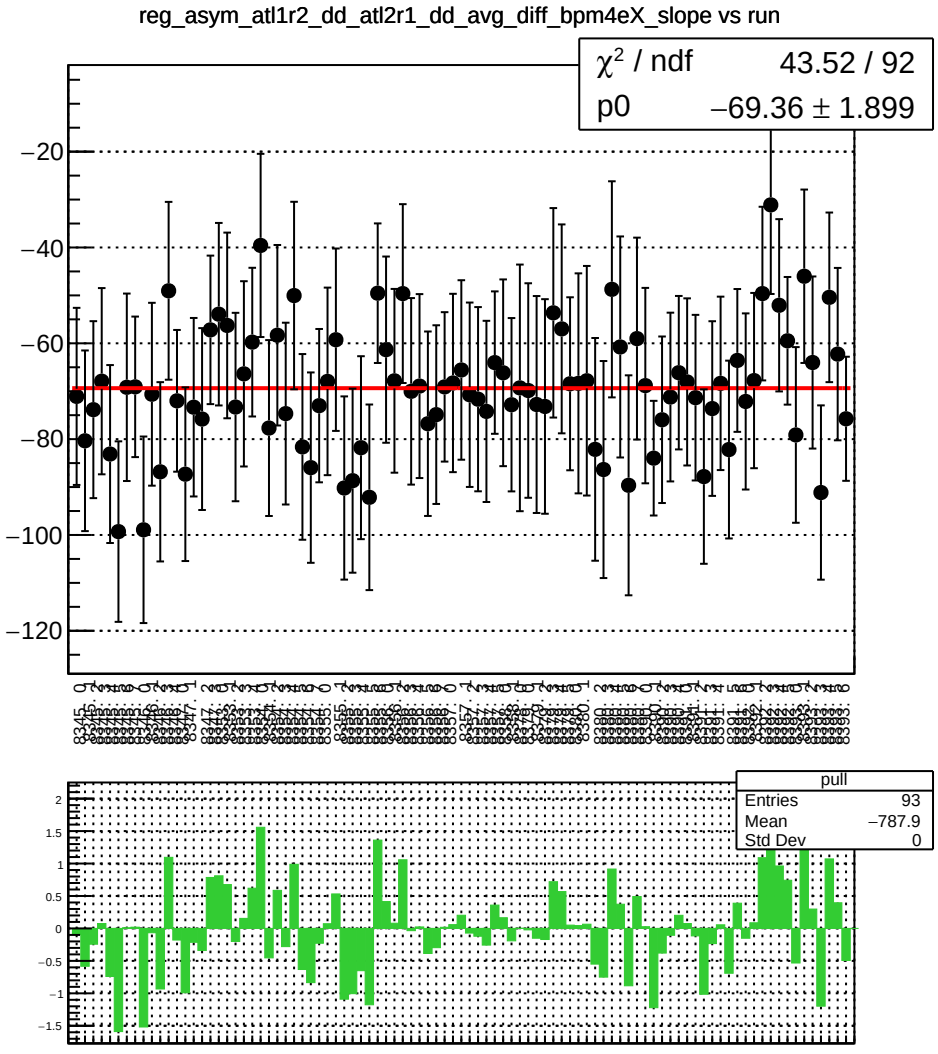

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.727 / 92
p0 −30.65 ± 8.681
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean 4.089
Std Dev 112.1
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 93
Mean 0.005251
Std Dev 0.3234
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

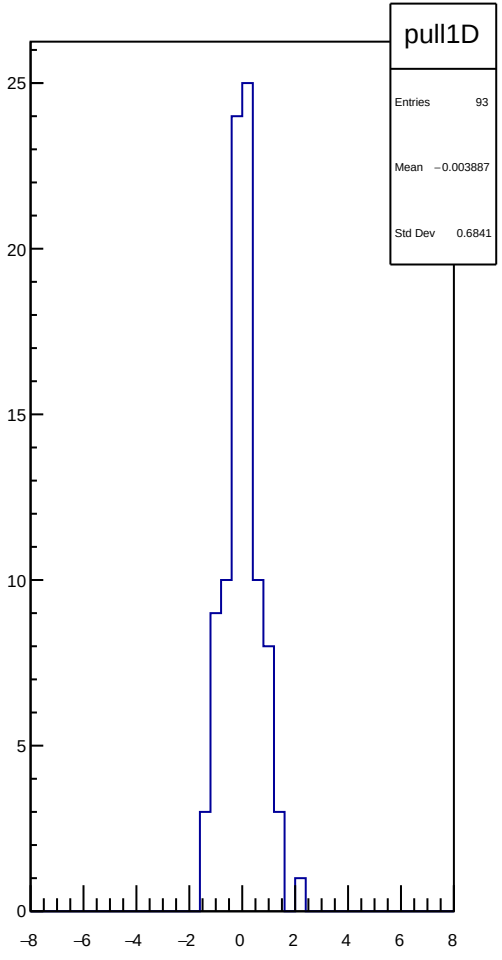

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 29.84 / 92
p0 130.4 ± 0.4897
140
135
130
125
120
pull
Entries 93
Mean −137
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean 0.03238
Std Dev 0.5655
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

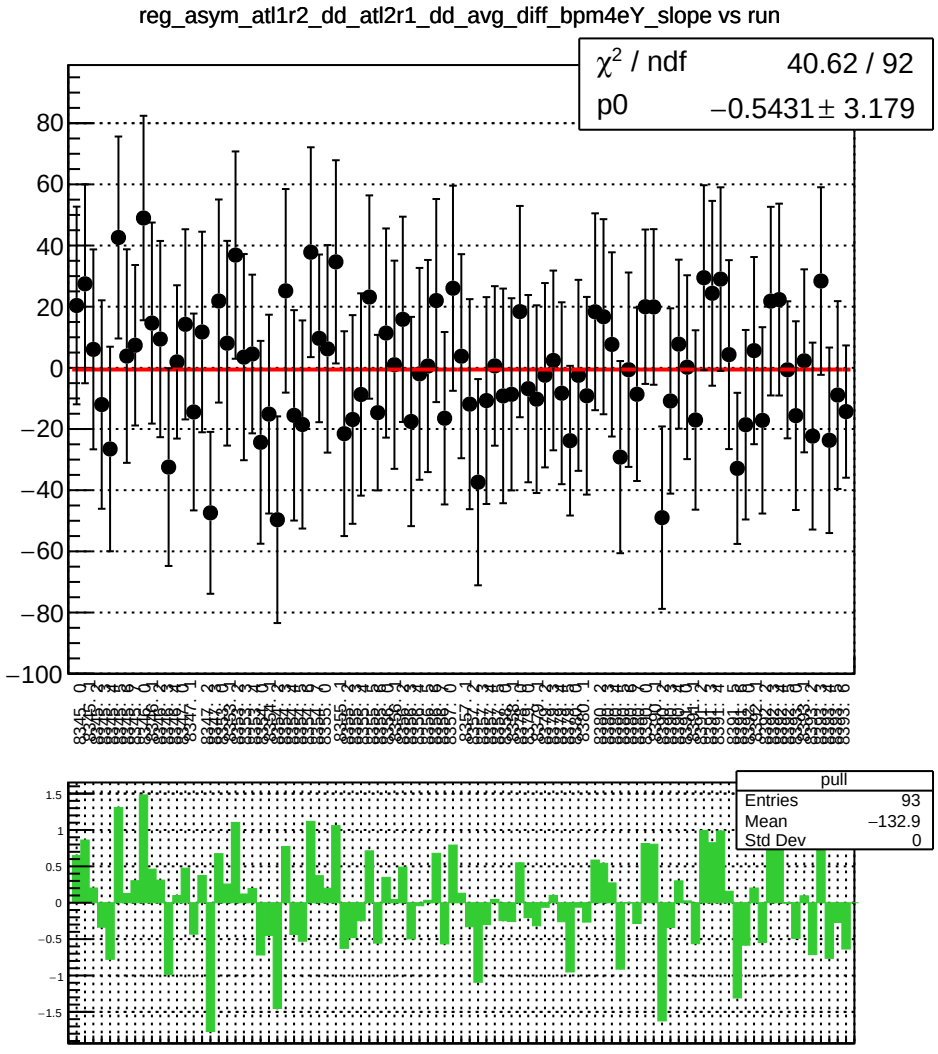

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 46.59 / 92
p0 54.69 ± 1.73
pull
Entries 93
Mean 548.2
Std Dev 0
pull1D
Entries 93
Mean −0.008928
Std Dev 0.7077

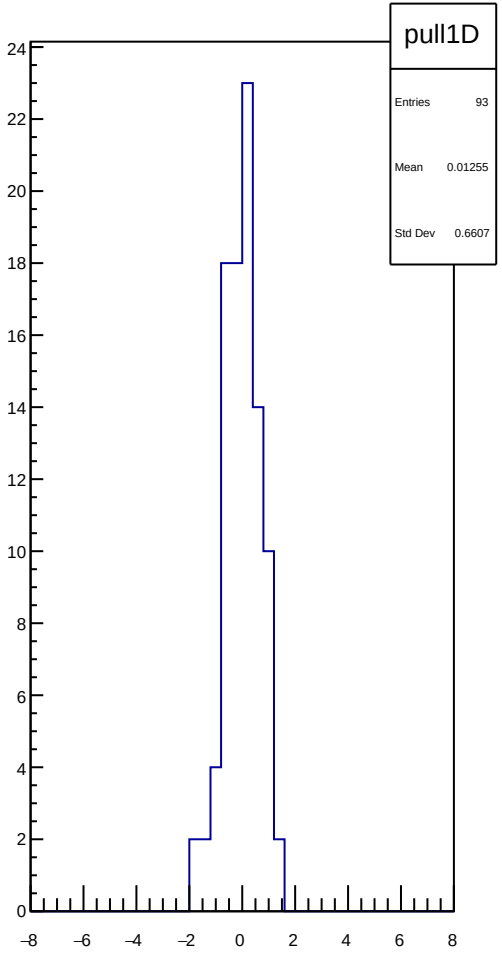

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 38.31 / 92
p0 −8.781 ± 3.004
pull
Entries 93
Mean −125.8
Std Dev 0

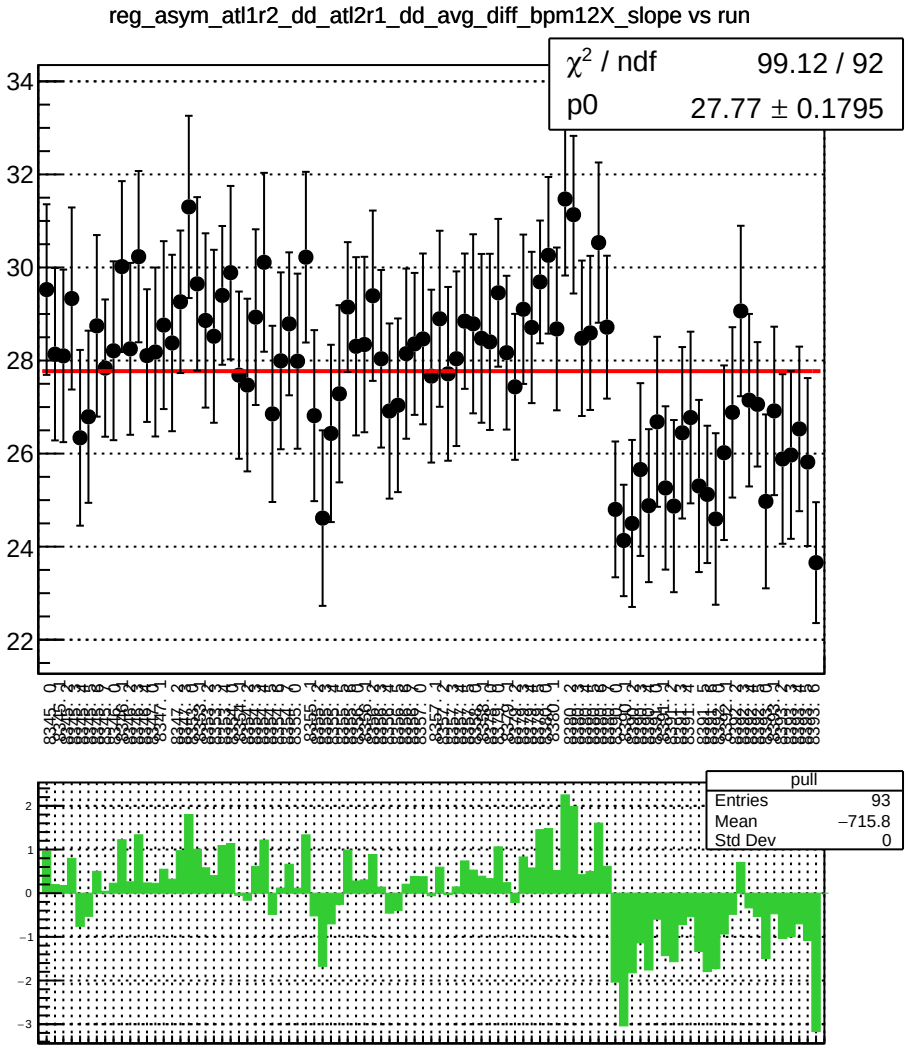

pull1D
Entries 93
Mean −0.01044
Std Dev 0.6418

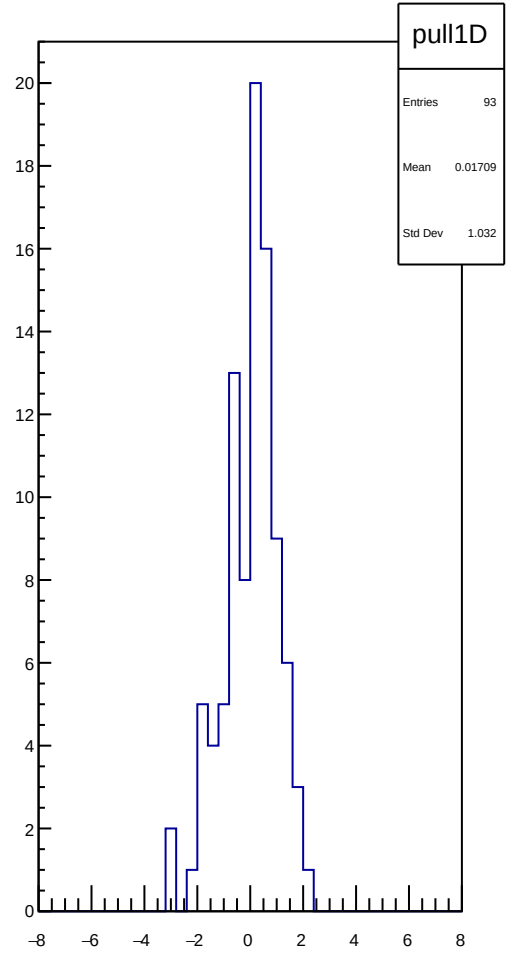

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 43.52 / 92
p0 −69.36 ± 1.899
pull
Entries 93
Mean −787.9
Std Dev 0

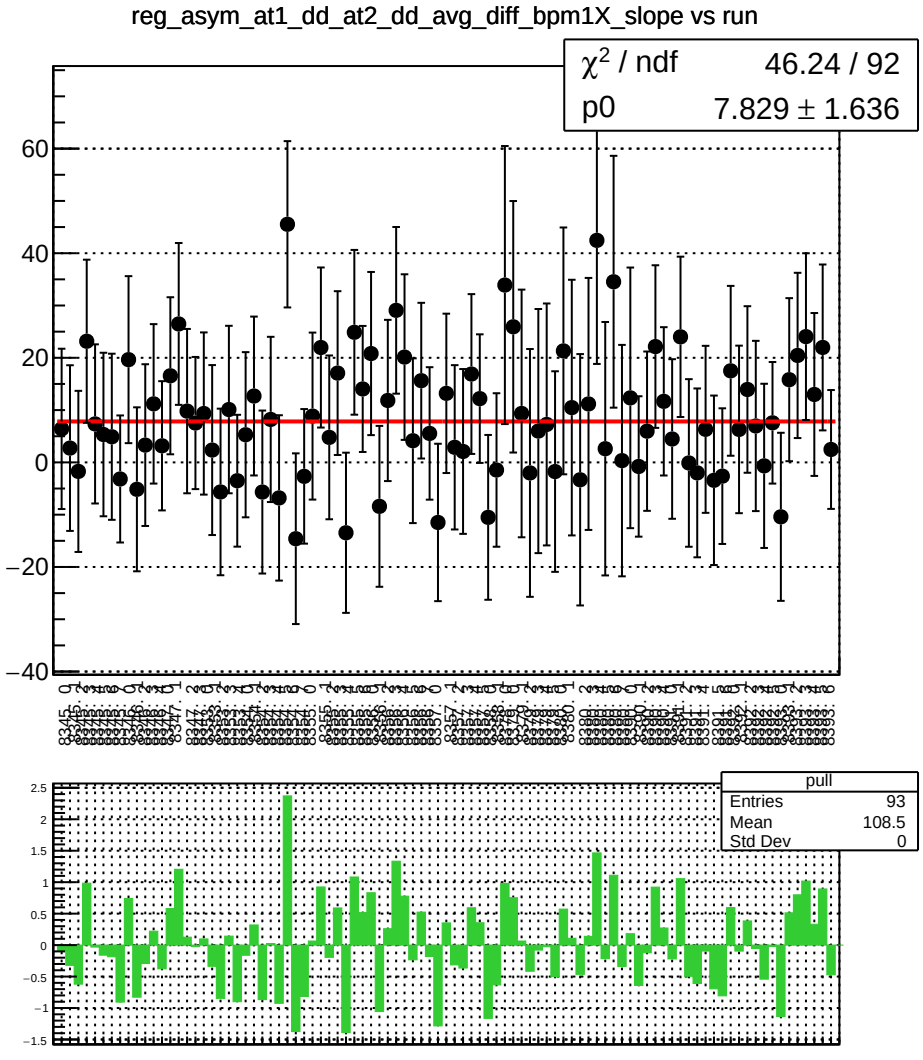

pull1D
Entries 93
Mean −0.003887
Std Dev 0.6841

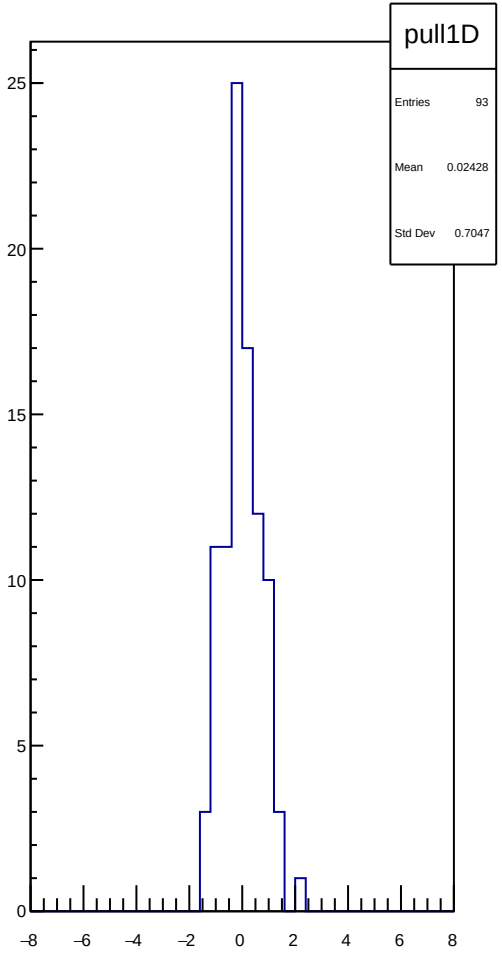

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 40.62 / 92
p0 −0.5431 ± 3.179
pull
Entries 93
Mean −132.9
Std Dev 0

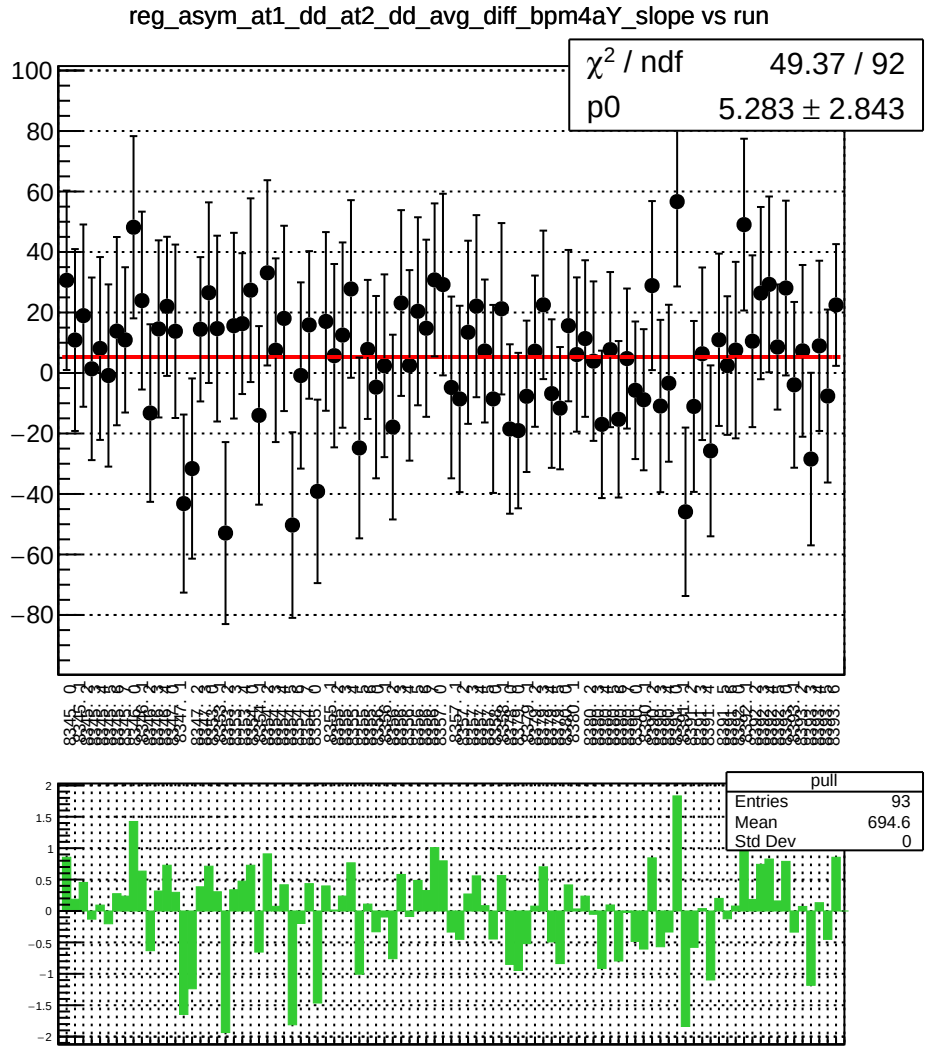

pull1D
Entries 93
Mean 0.01255
Std Dev 0.6607

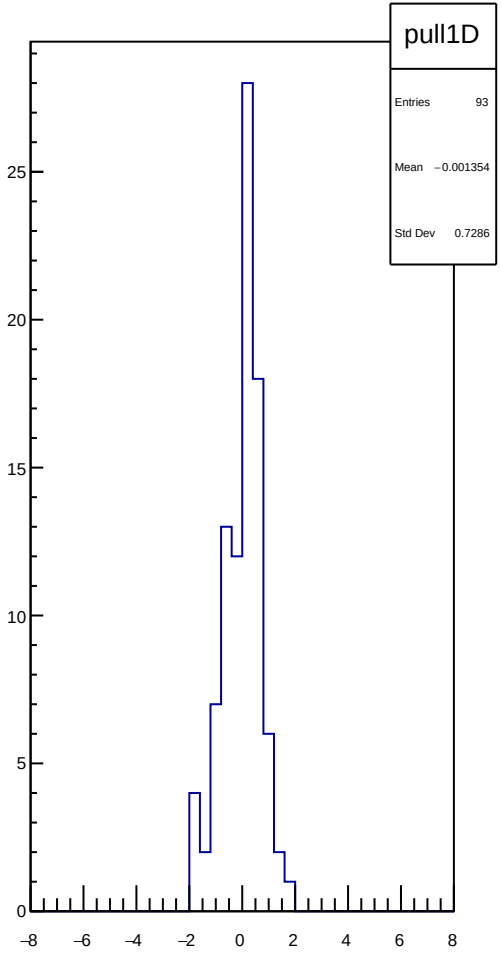

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 99.12 / 92
p0 27.77 ± 0.1795
pull
Entries 93
Mean −715.8
Std Dev 0

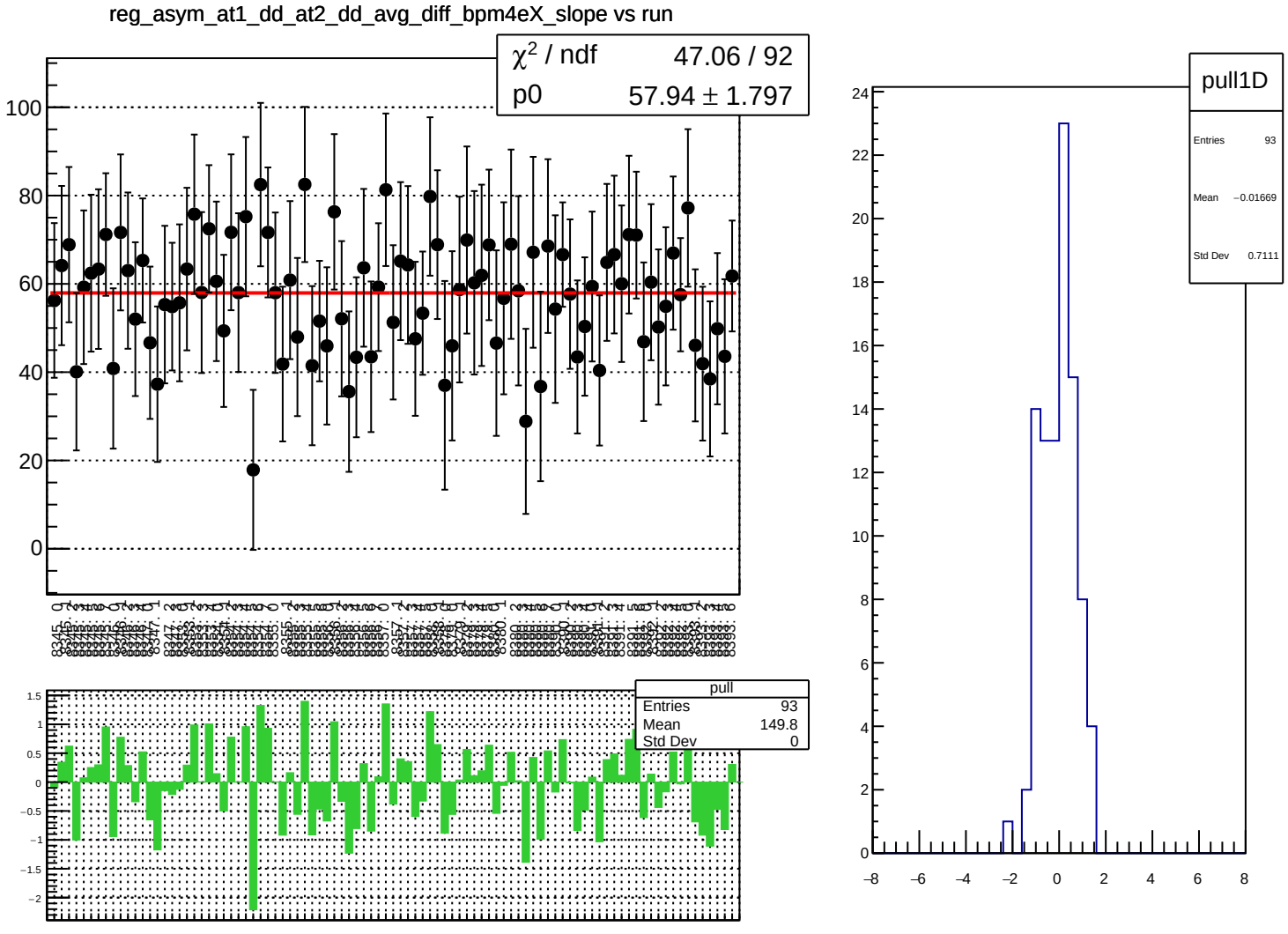

pull1D
Entries 93
Mean 0.01709
Std Dev 1.032

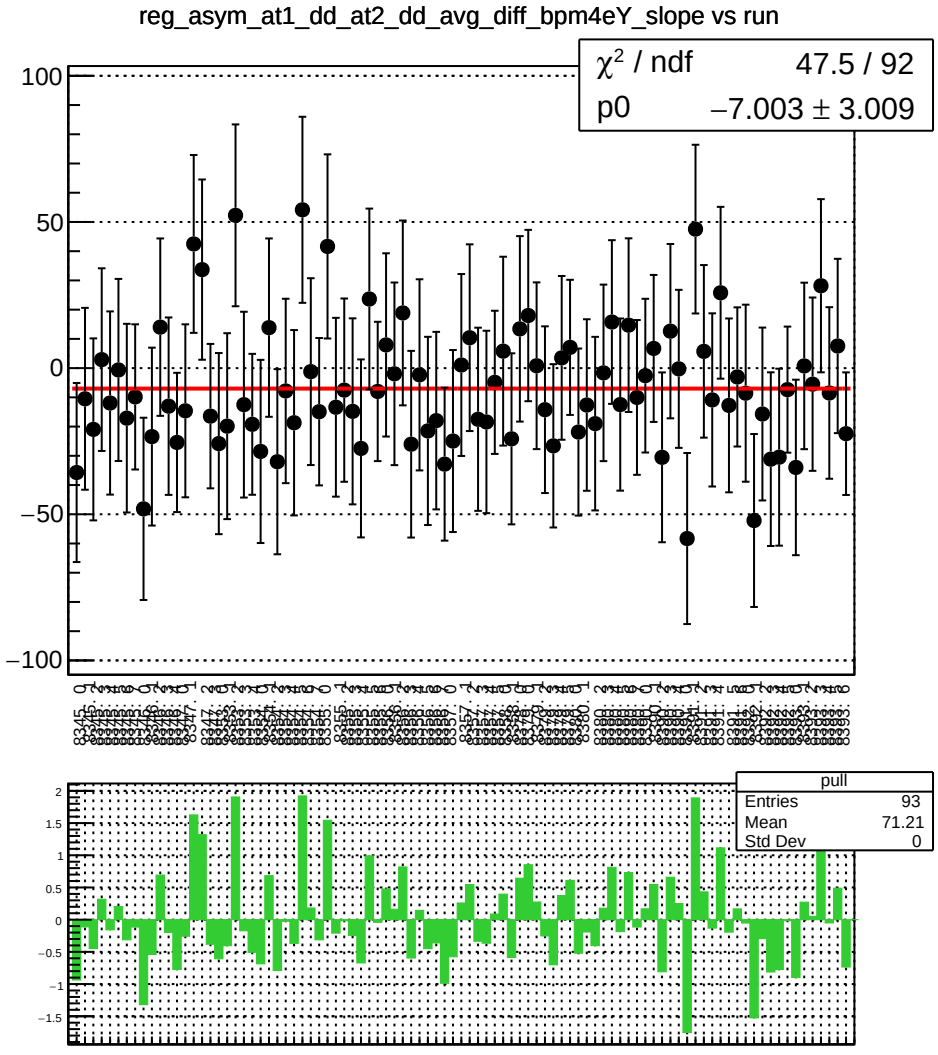

reg_asym_at1_dd_at2_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 46.24 / 92
p0 7.829 ± 1.636
pull
Entries 93
Mean 108.5
Std Dev 0

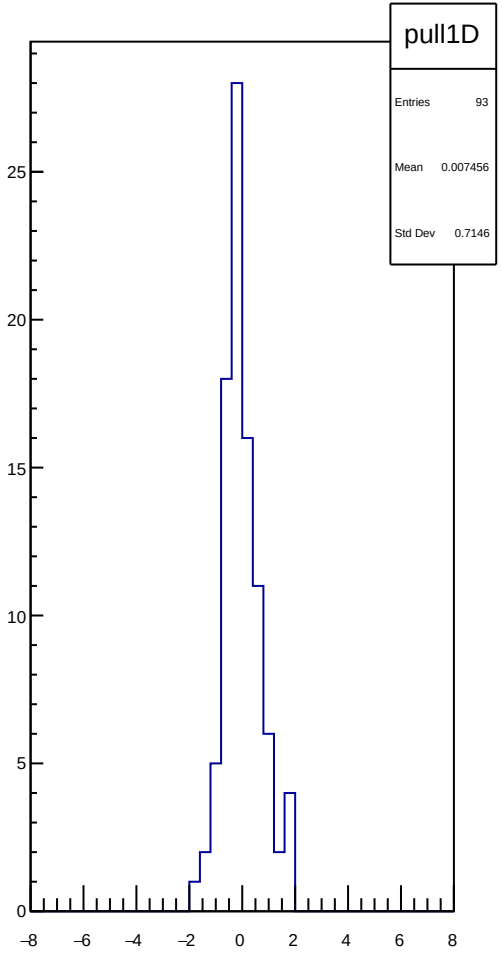

pull1D
Entries 93
Mean 0.02428
Std Dev 0.7047

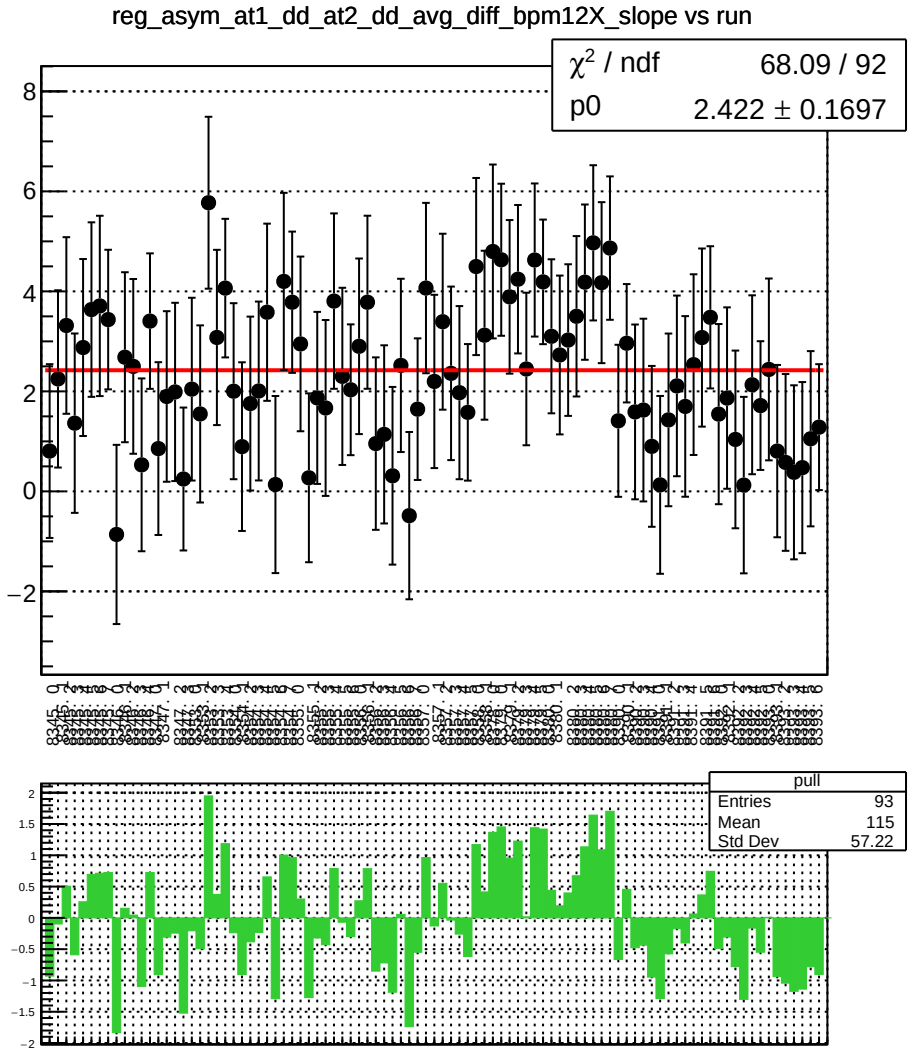

reg_asym_at1_dd_at2_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 49.37 / 92
p0 5.283 ± 2.843
pull
Entries 93
Mean 694.6
Std Dev 0

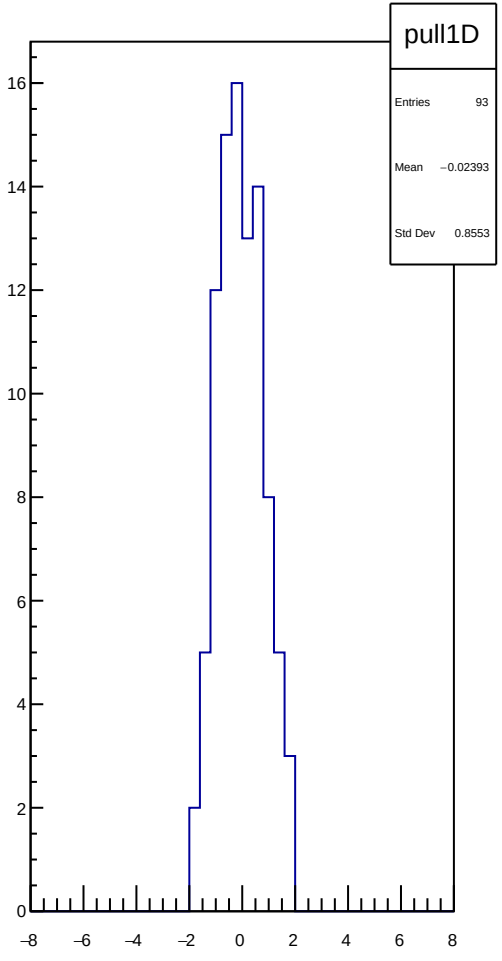

pull1D
Entries 93
Mean −0.001354
Std Dev 0.7286

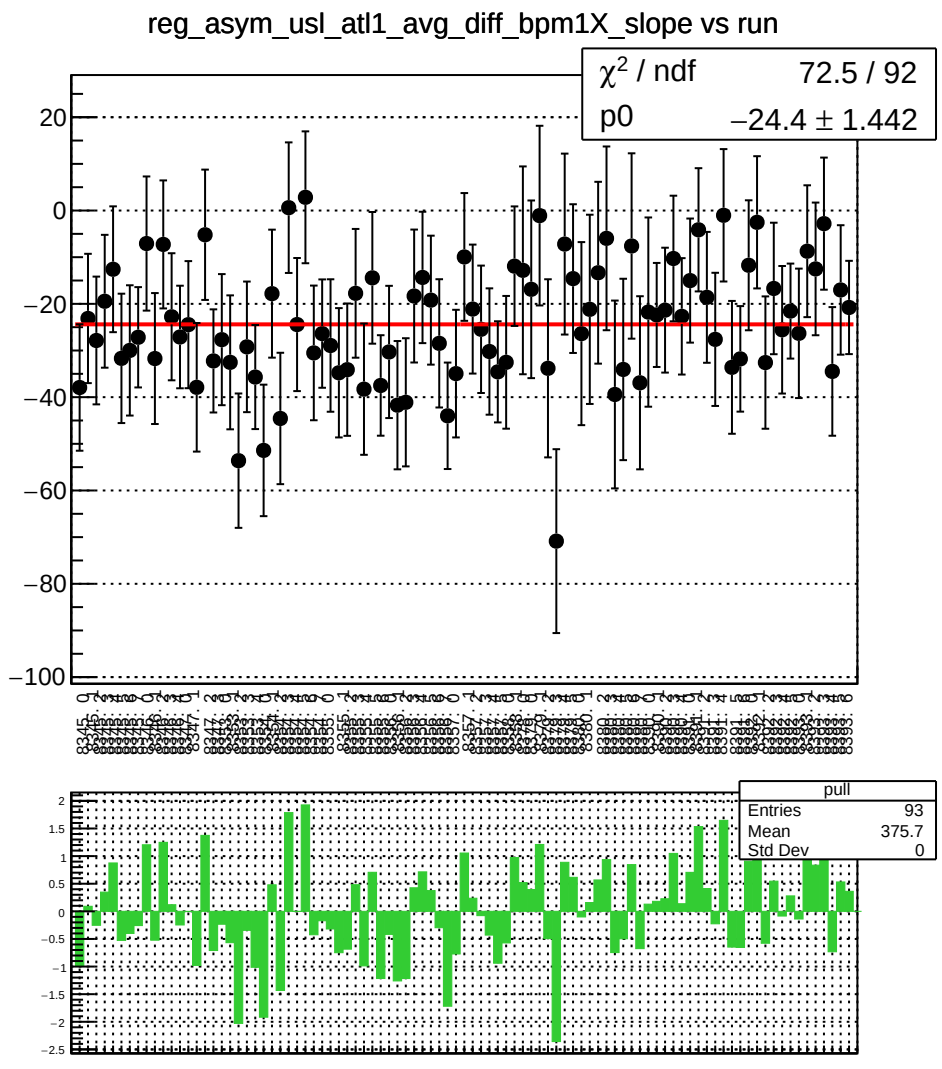

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 47.06 / 92
p0 57.94 ± 1.797
pull
Entries 93
Mean 149.8
Std Dev 0
pull1D
Entries 93
Mean −0.01669
Std Dev 0.7111

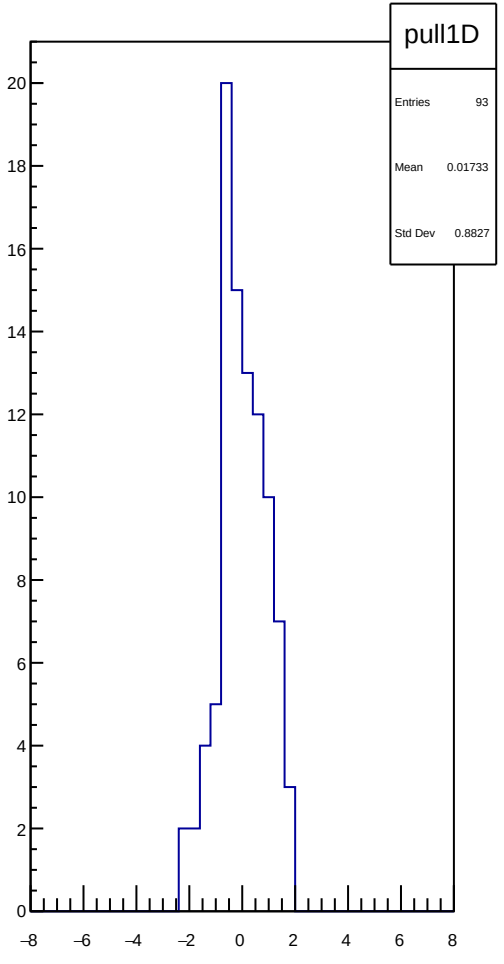

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 47.5 / 92
p0 −7.003 ± 3.009
pull
Entries 93
Mean 71.21
Std Dev 0

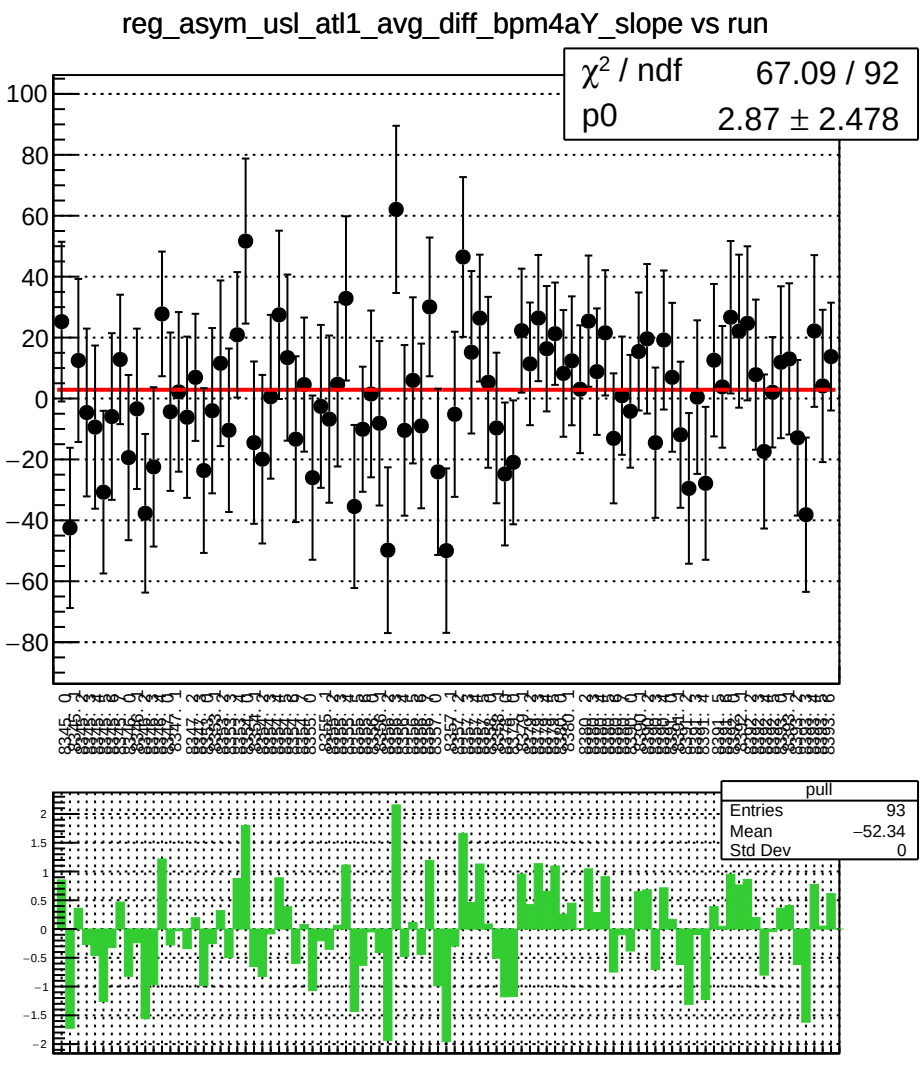

pull1D
Entries 93
Mean 0.007456
Std Dev 0.7146

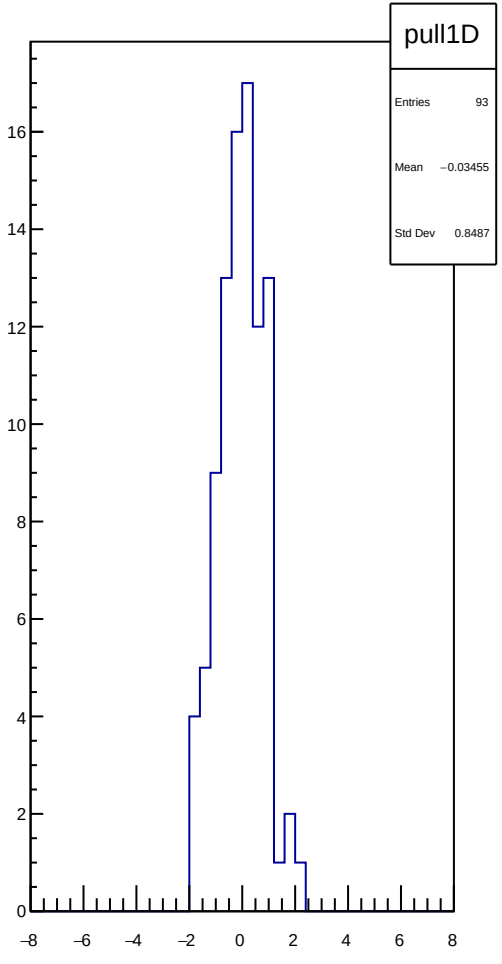

reg_asym_at1_dd_at2_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 68.09 / 92
p0 2.422 ± 0.1697
pull
Entries 93
Mean 115
Std Dev 57.22

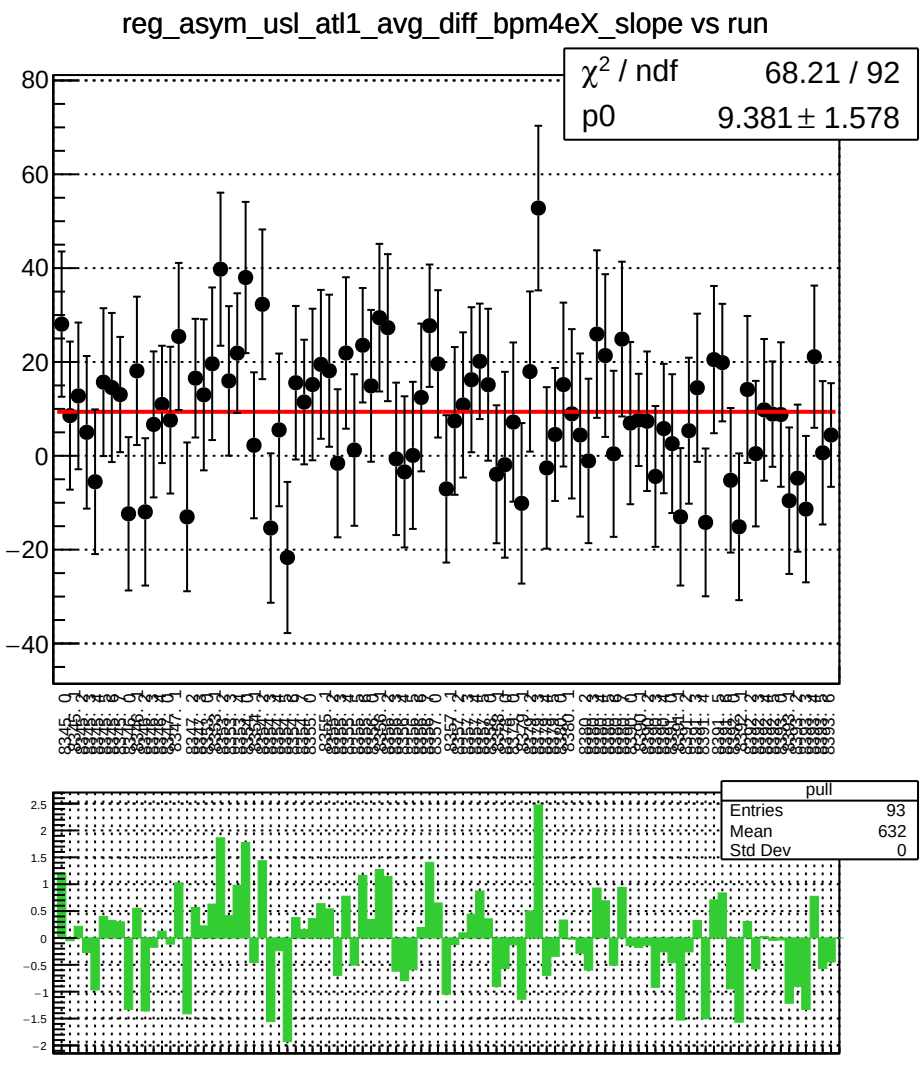

pull1D
Entries 93
Mean −0.02393
Std Dev 0.8553

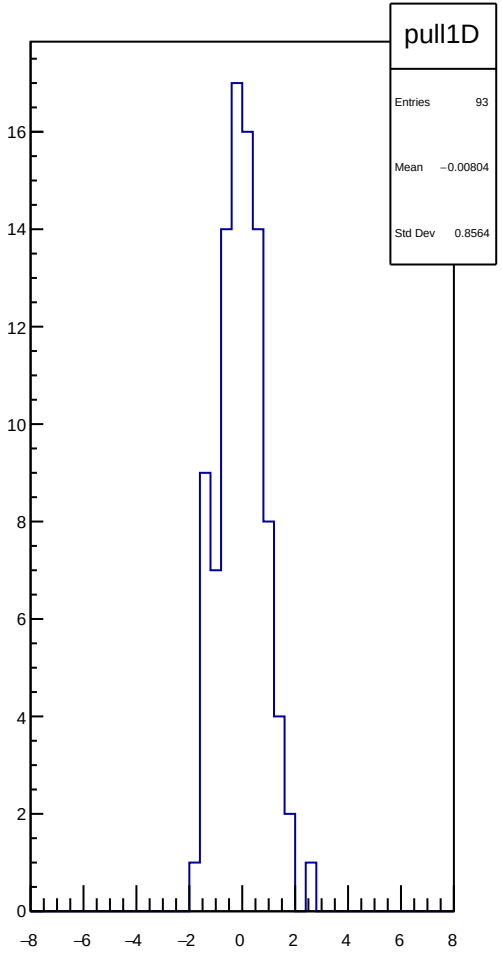

reg_asym_usl_atl1_avg_diff_bpm1X_slope vs run
χ² / ndf 72.5 / 92
p0 −24.4 ± 1.442
pull
Entries 93
Mean 375.7
Std Dev 0

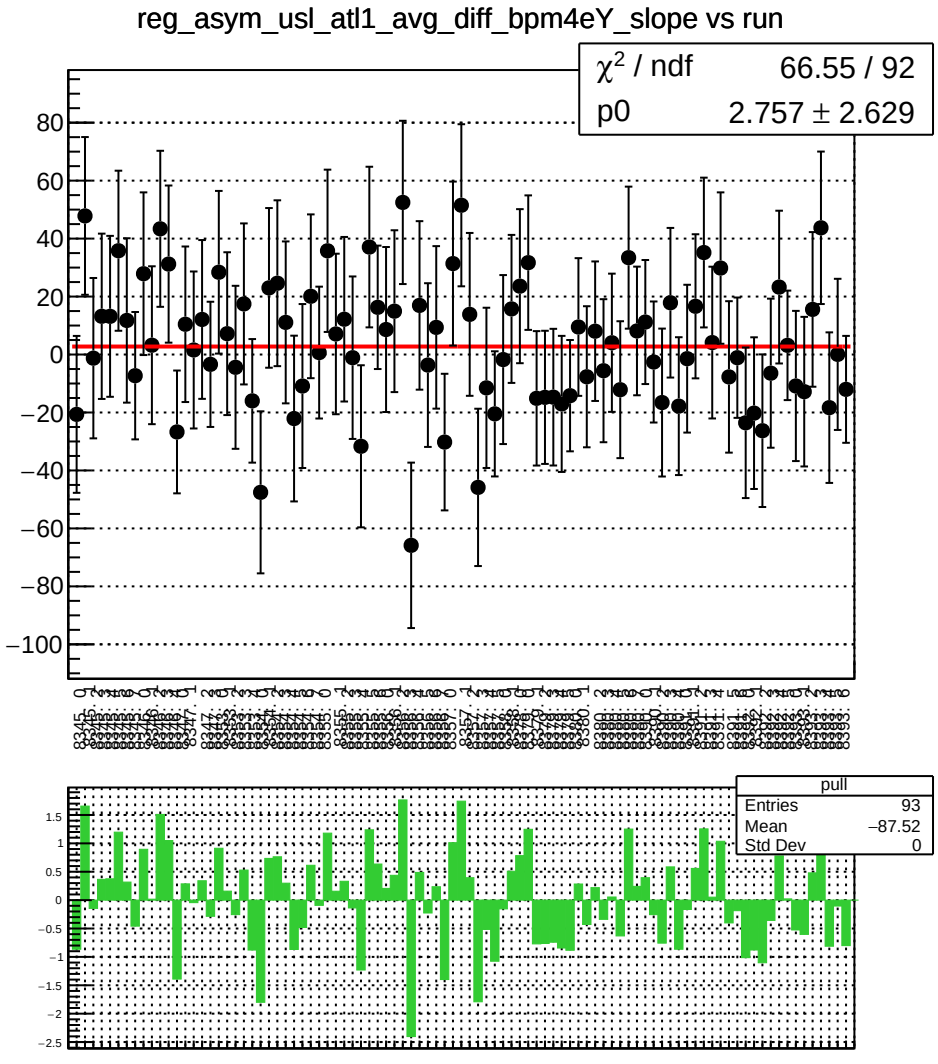

pull1D
Entries 93
Mean 0.01733
Std Dev 0.8827

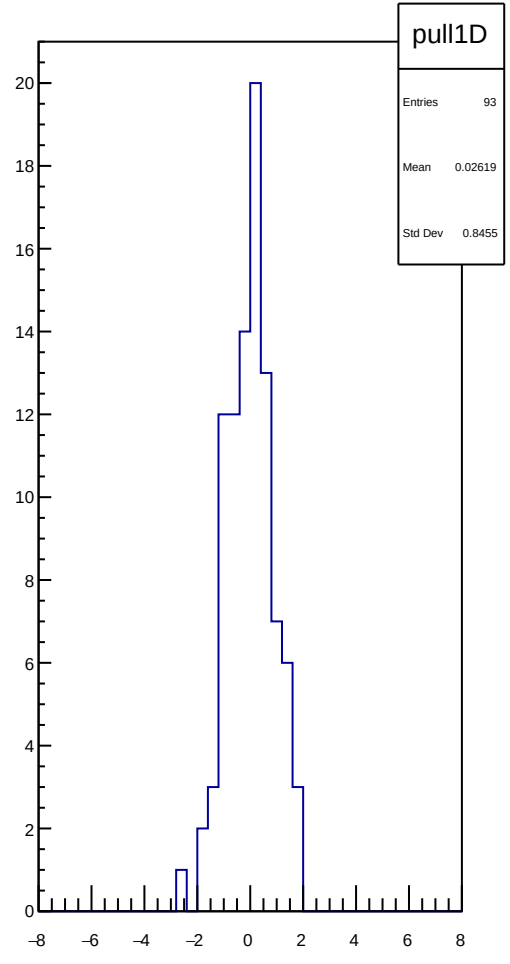

reg_asym_usl_atl1_avg_diff_bpm4aY_slope vs run
χ² / ndf 67.09 / 92
p0 2.87 ± 2.478
pull
Entries 93
Mean −52.34
Std Dev 0

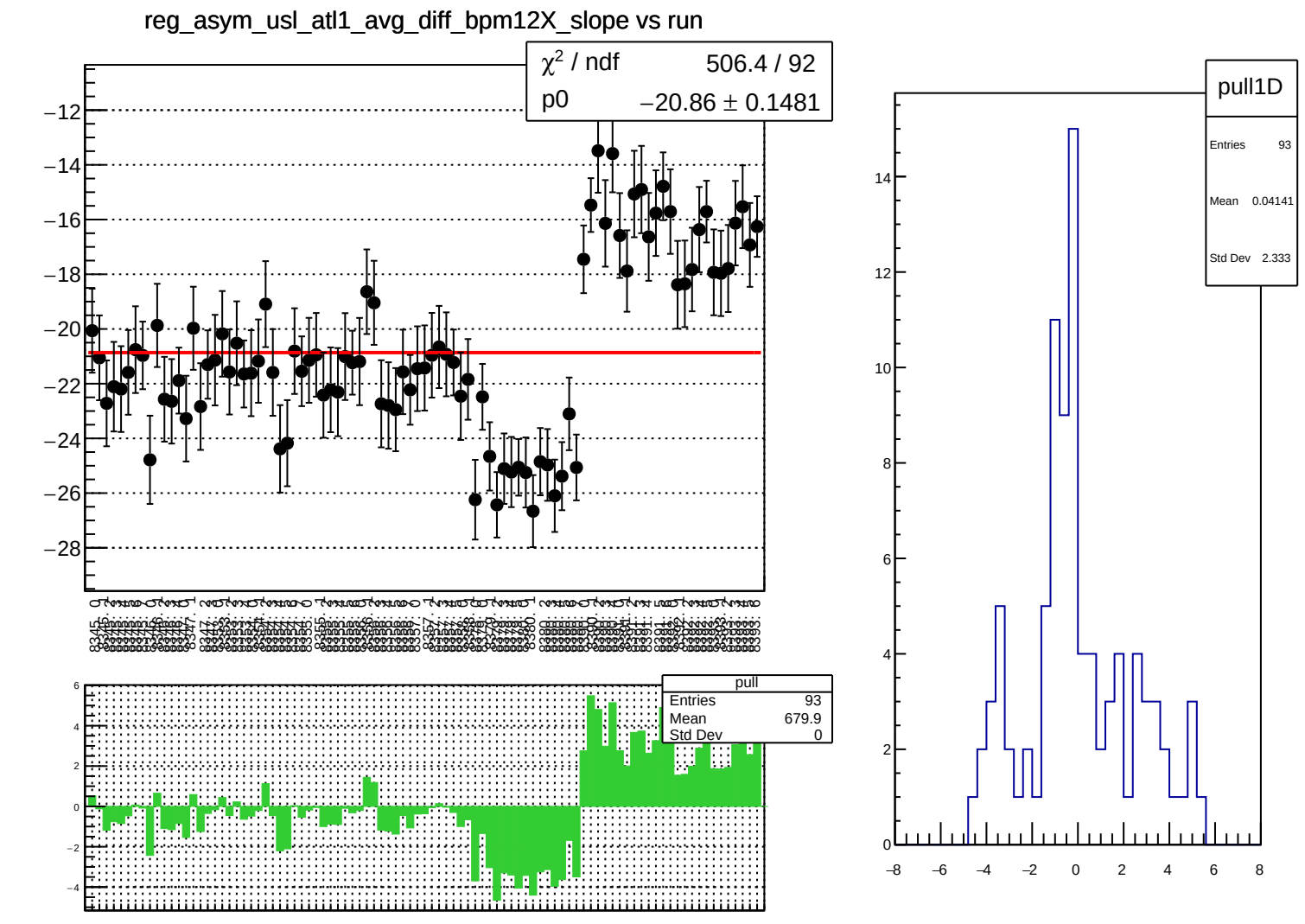

pull1D
Entries 93
Mean −0.03455
Std Dev 0.8487

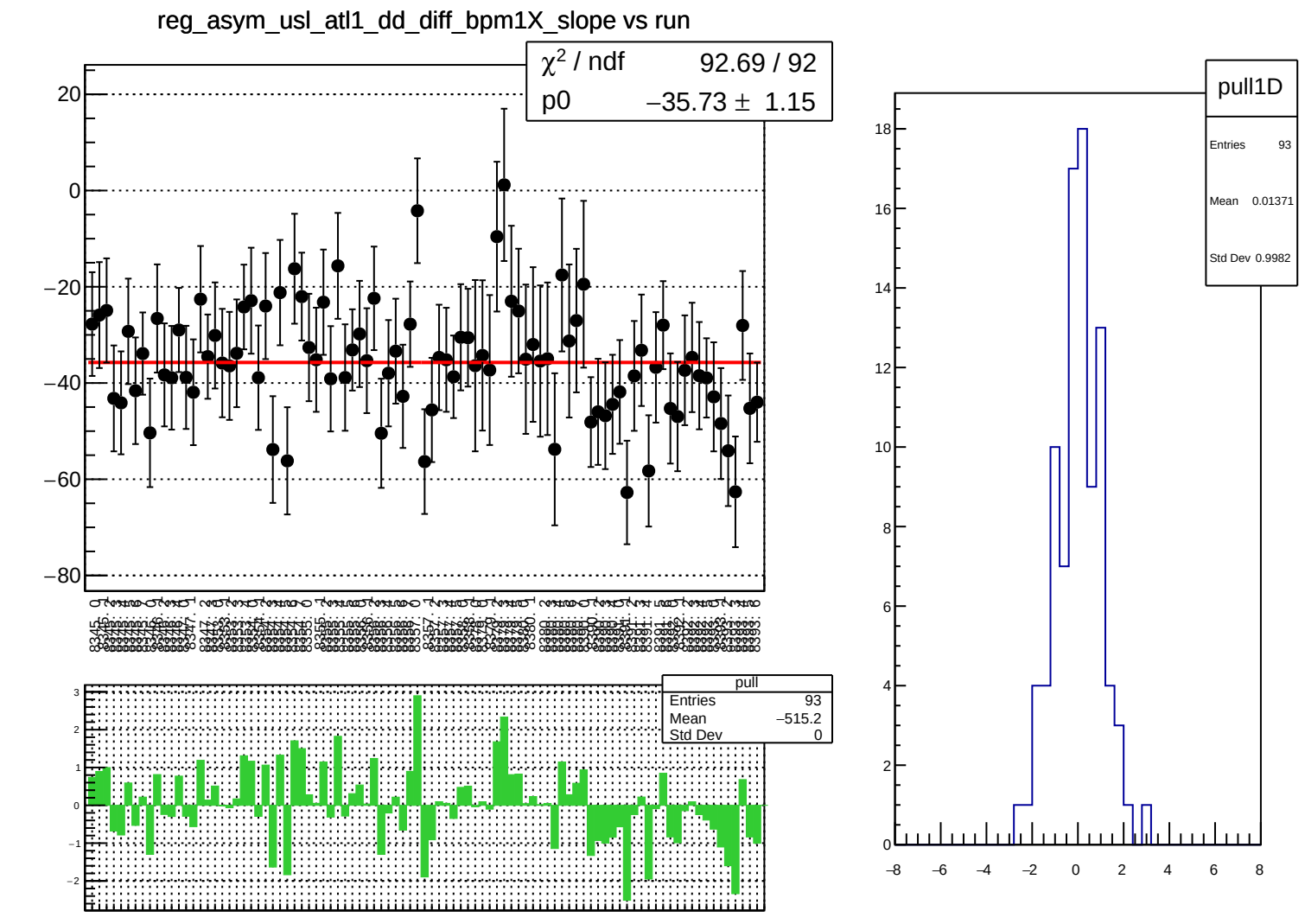

reg_asym_usl_atl1_avg_diff_bpm4eX_slope vs run
χ² / ndf 68.21 / 92
p0 9.381 ± 1.578
pull
Entries 93
Mean 632
Std Dev 0

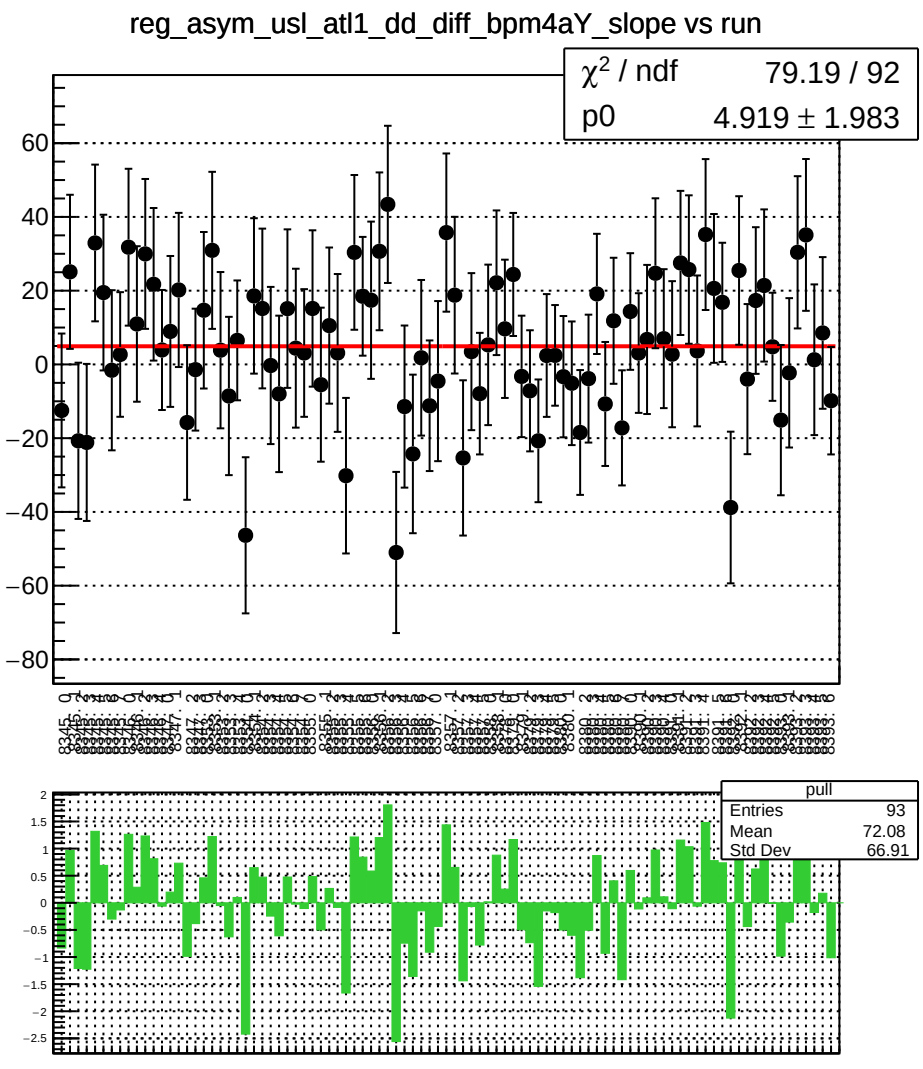

pull1D
Entries 93
Mean −0.00804
Std Dev 0.8564

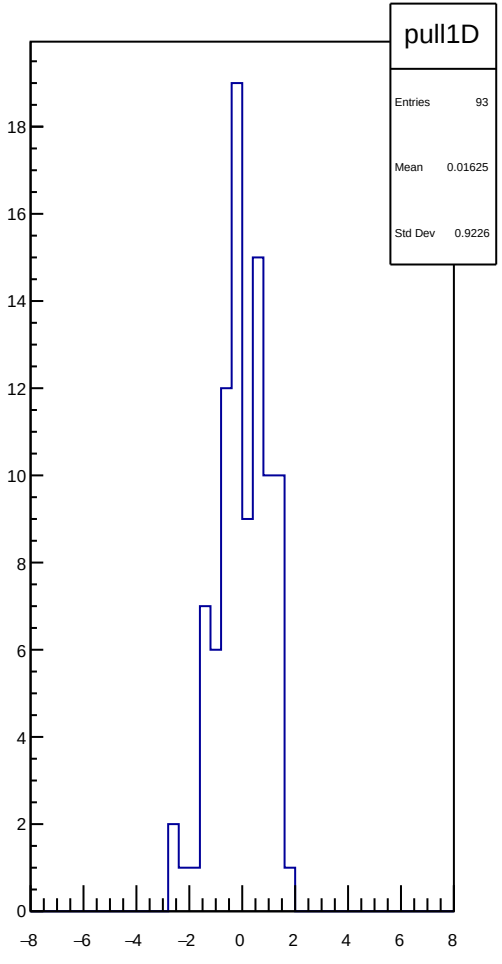

reg_asym_usl_atl1_avg_diff_bpm4eY_slope vs run
χ² / ndf 66.55 / 92
p0 2.757 ± 2.629
pull
Entries 93
Mean −87.52
Std Dev 0

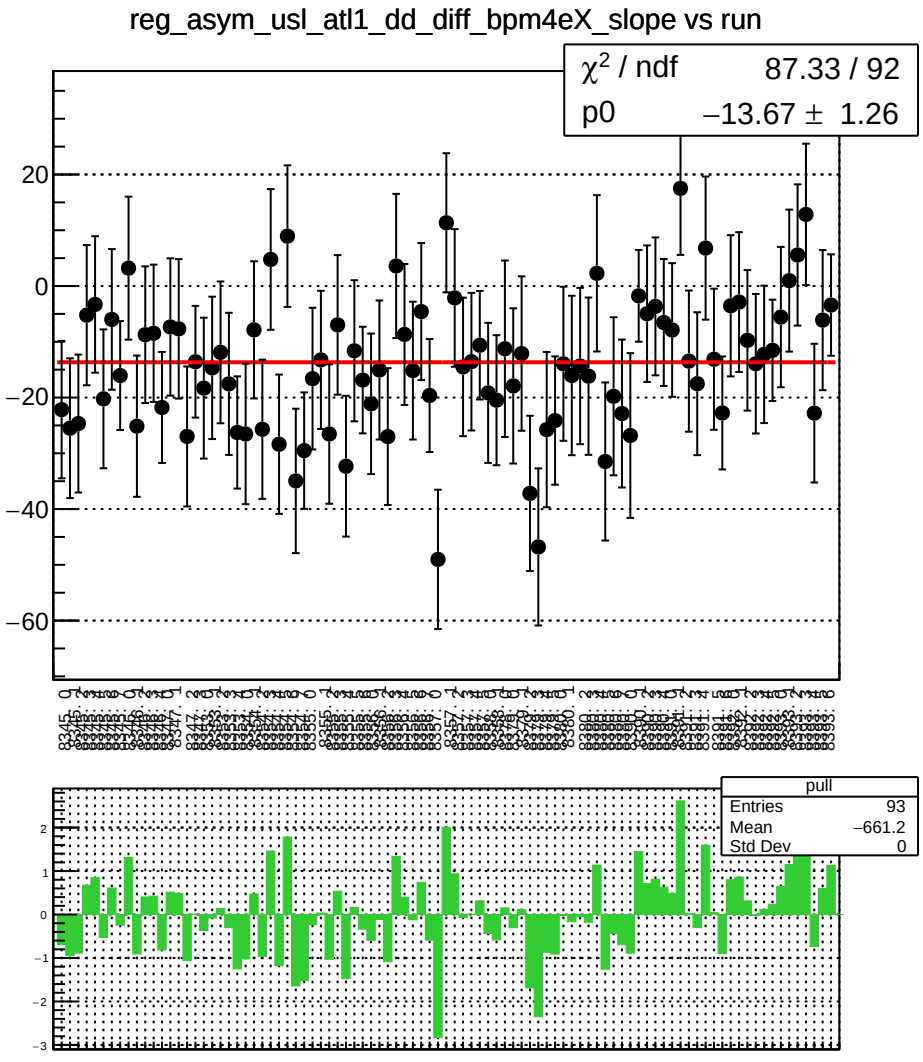

pull1D
Entries 93
Mean 0.02619
Std Dev 0.8455

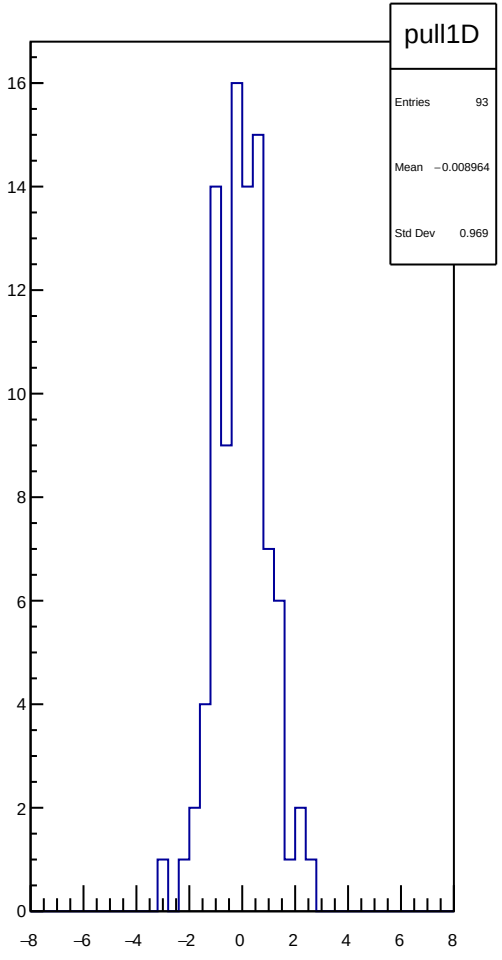

reg_asym_usl_atl1_avg_diff_bpm12X_slope vs run
χ² / ndf 506.4 / 92
p0 −20.86 ± 0.1481
pull
Entries 93
Mean 679.9
Std Dev 0
pull1D
Entries 93
Mean 0.04141
Std Dev 2.333

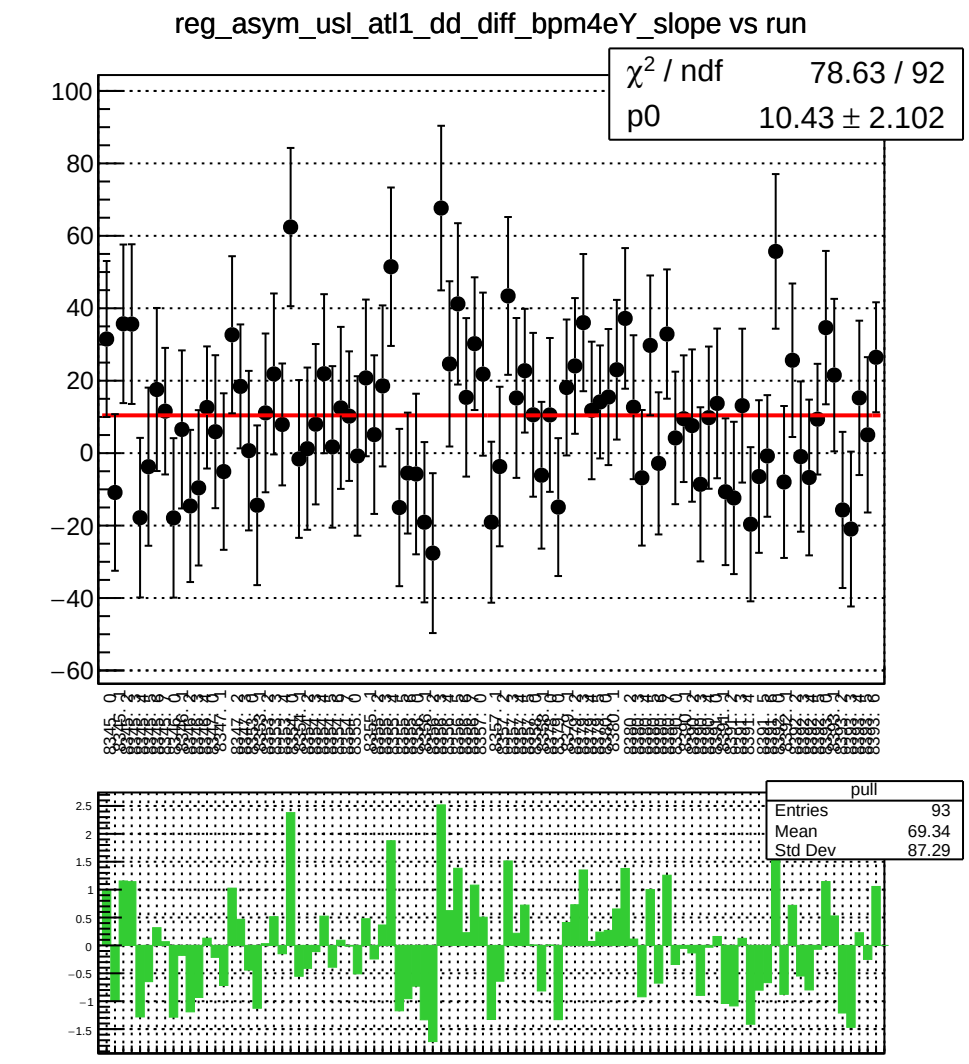

reg_asym_usl_atl1_dd_diff_bpm1X_slope vs run
χ² / ndf 92.69 / 92
p0 −35.73 ± 1.15
pull
Entries 93
Mean −515.2
Std Dev 0
pull1D
Entries 93
Mean 0.01371
Std Dev 0.9982

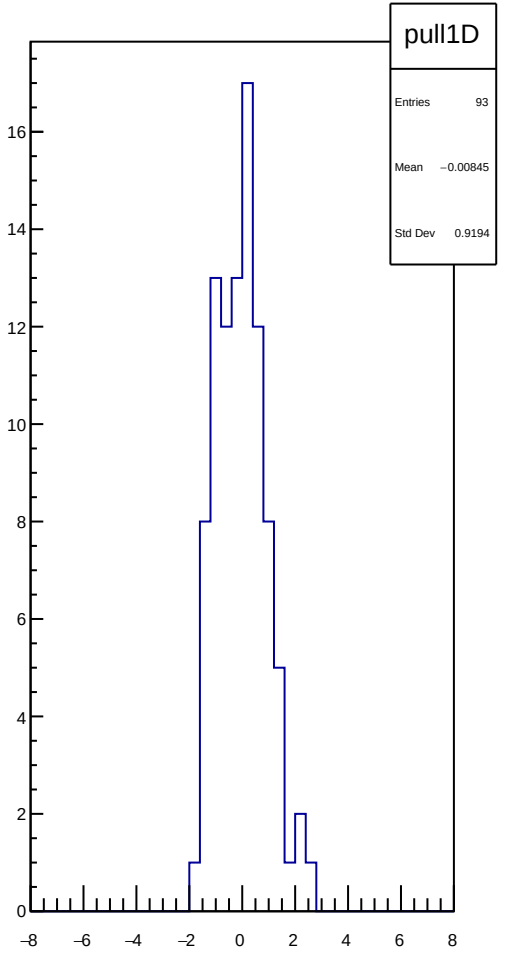

reg_asym_usl_atl1_dd_diff_bpm4aY_slope vs run
χ² / ndf 79.19 / 92
p0 4.919 ± 1.983
pull
Entries 93
Mean 72.08
Std Dev 66.91

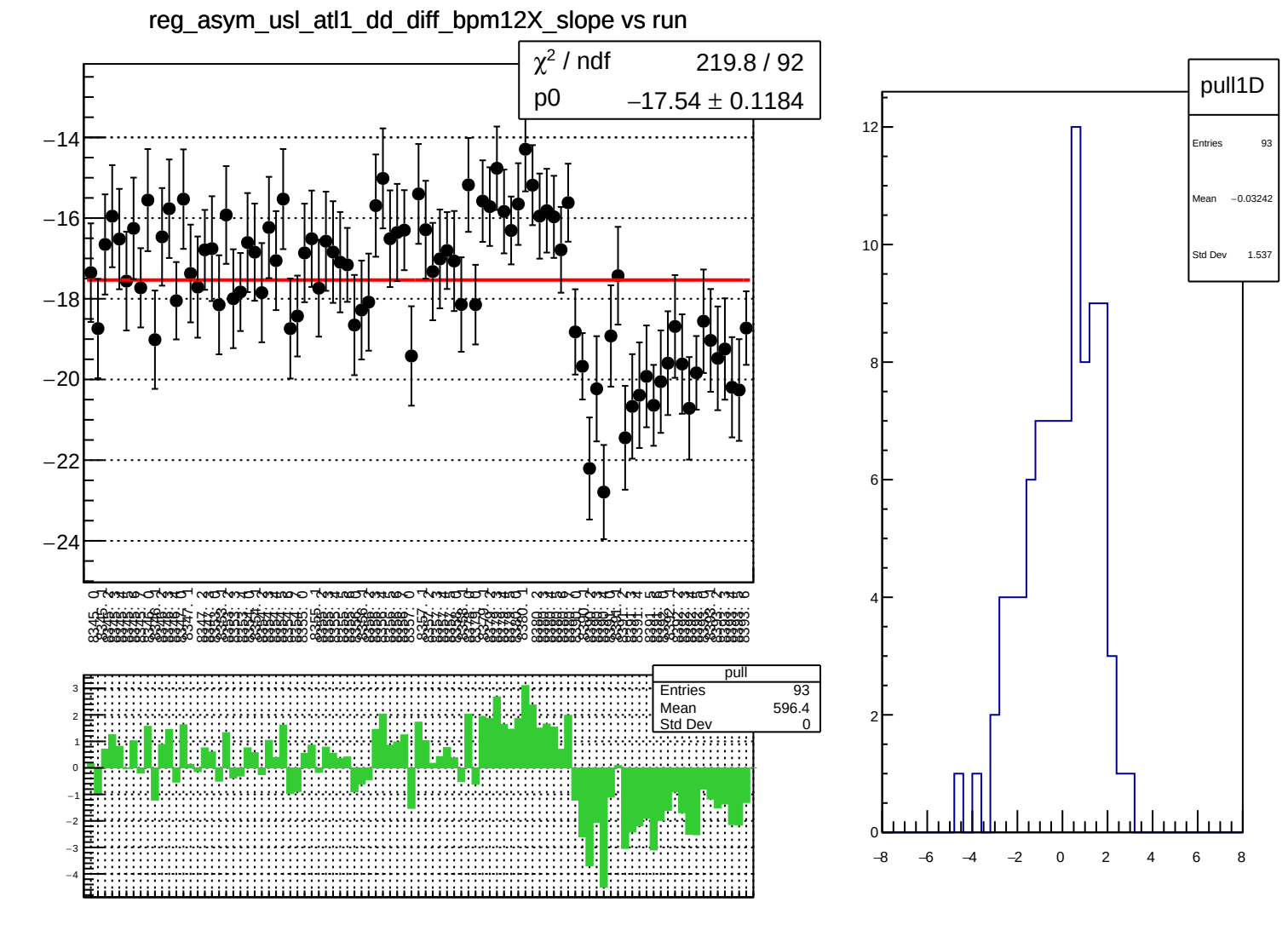

pull1D
Entries 93
Mean 0.01625
Std Dev 0.9226

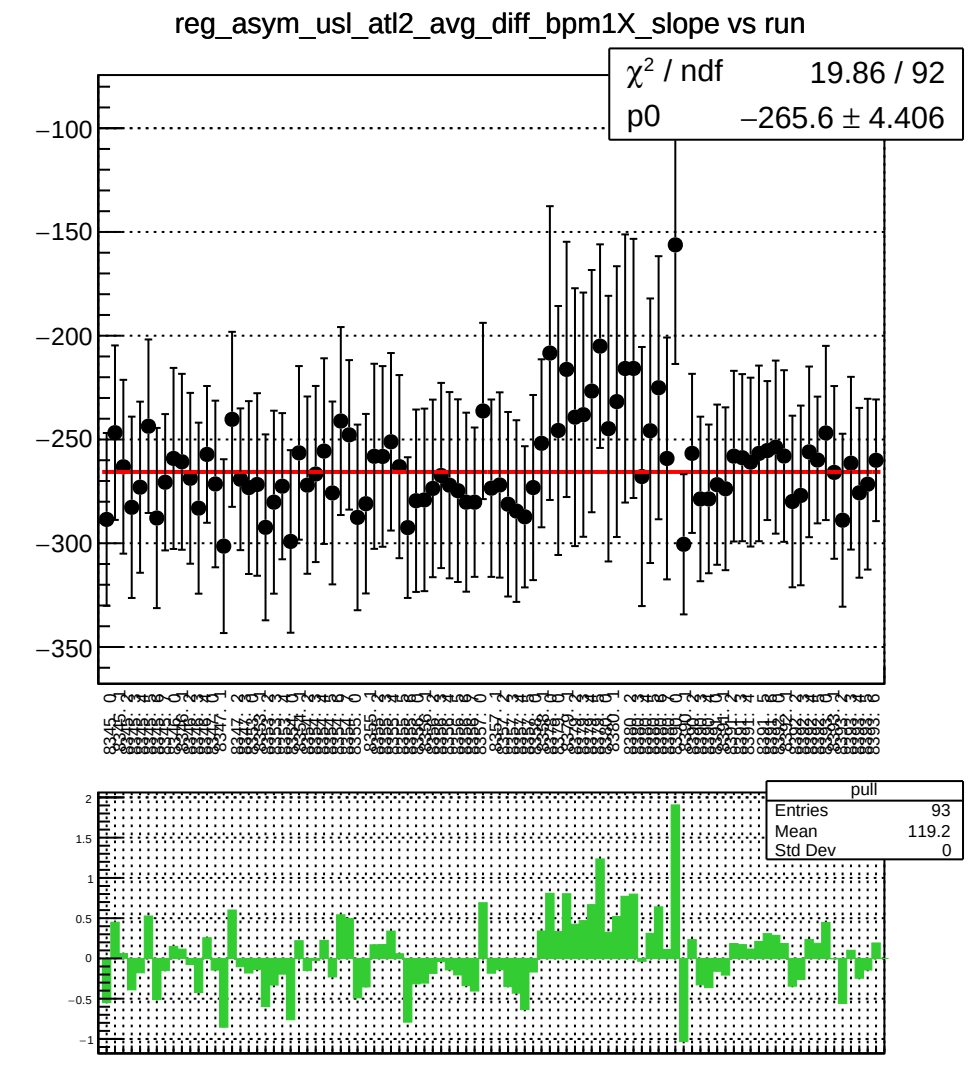

reg_asym_usl_atl1_dd_diff_bpm4eX_slope vs run
χ² / ndf 87.33 / 92
p0 −13.67 ± 1.26
pull
Entries 93
Mean −661.2
Std Dev 0

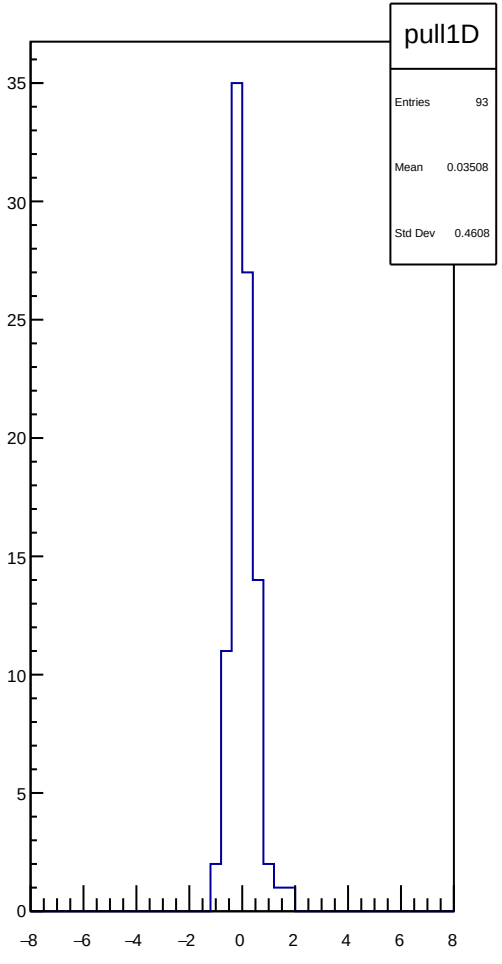

pull1D
Entries 93
Mean −0.008964
Std Dev 0.969

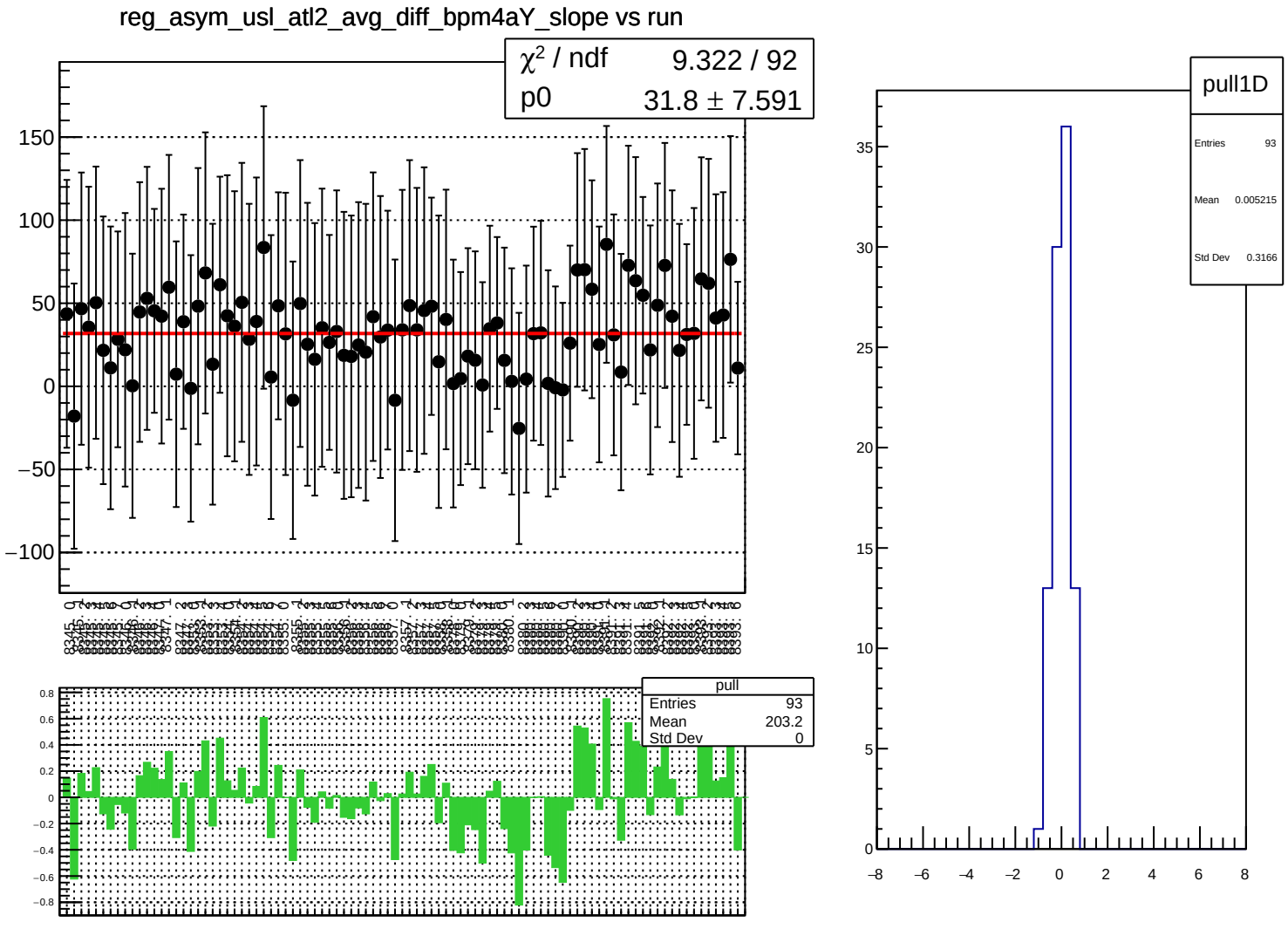

reg_asym_usl_atl1_dd_diff_bpm4eY_slope vs run
χ² / ndf 78.63 / 92
p0 10.43 ± 2.102
pull
Entries 93
Mean 69.34
Std Dev 87.29

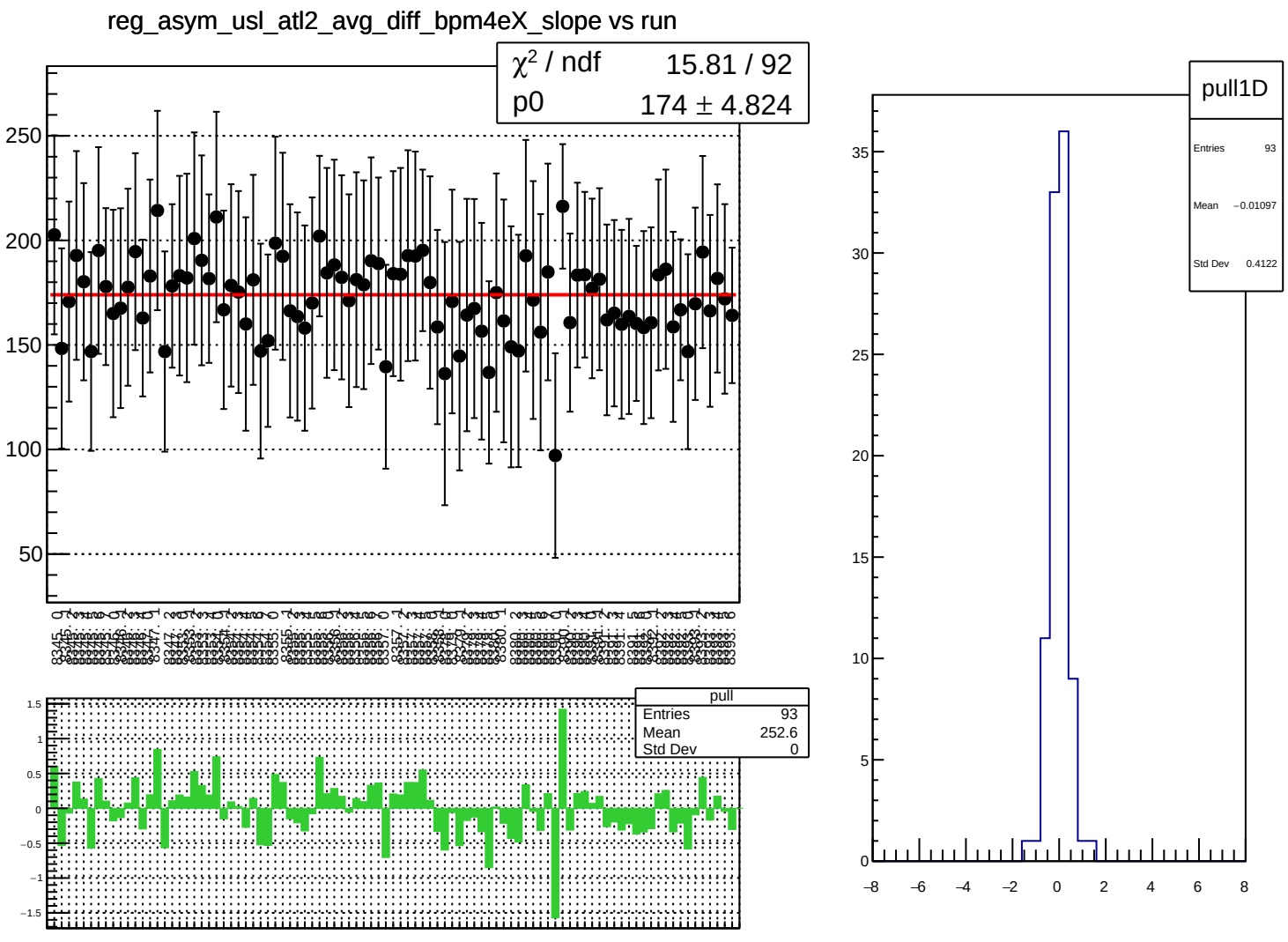

pull1D
Entries 93
Mean −0.00845
Std Dev 0.9194

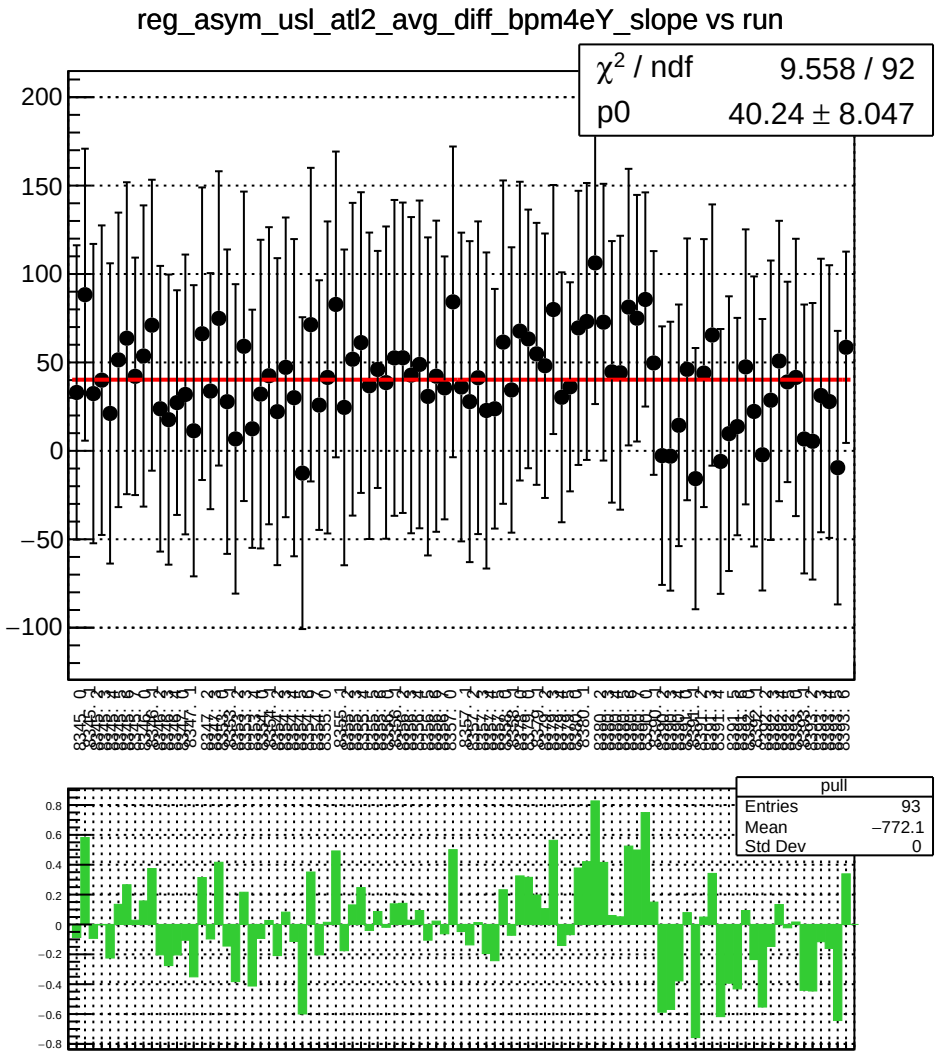

reg_asym_usl_atl1_dd_diff_bpm12X_slope vs run
χ² / ndf 219.8 / 92
p0 −17.54 ± 0.1184
pull
Entries 93
Mean 596.4
Std Dev 0
pull1D
Entries 93
Mean −0.03242
Std Dev 1.537

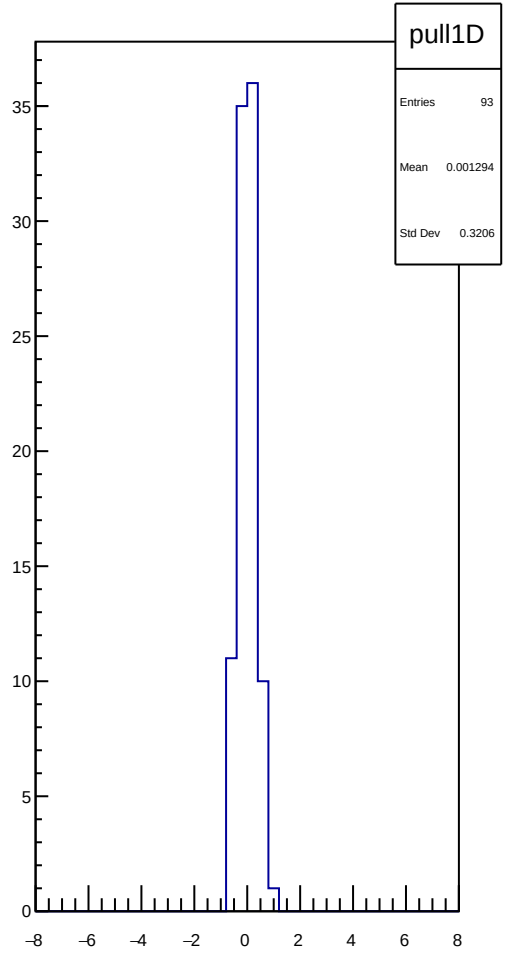

reg_asym_usl_atl2_avg_diff_bpm1X_slope vs run
χ² / ndf 19.86 / 92
p0 −265.6 ± 4.406
pull
Entries 93
Mean 119.2
Std Dev 0

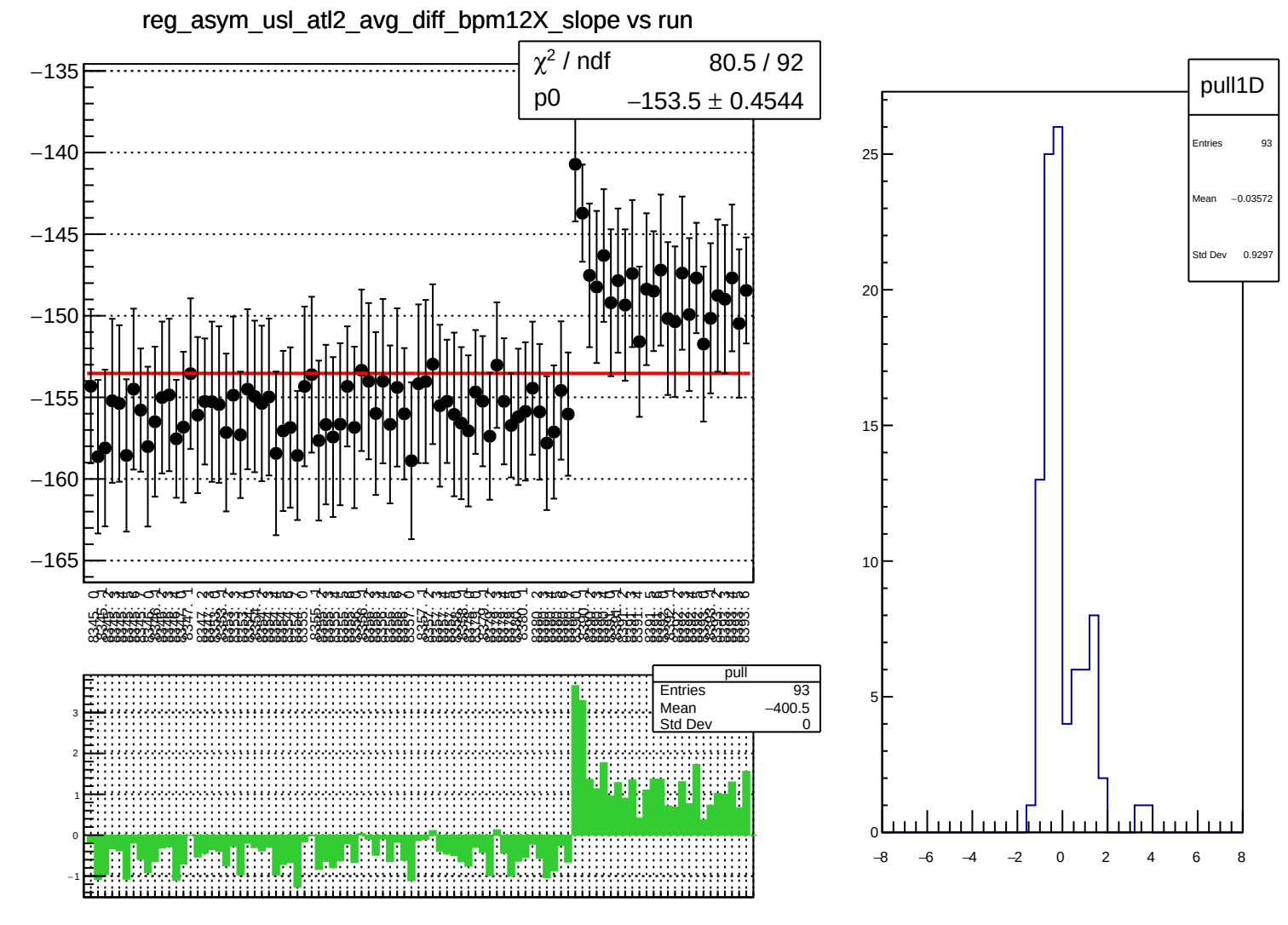

pull1D
Entries 93
Mean 0.03508
Std Dev 0.4608

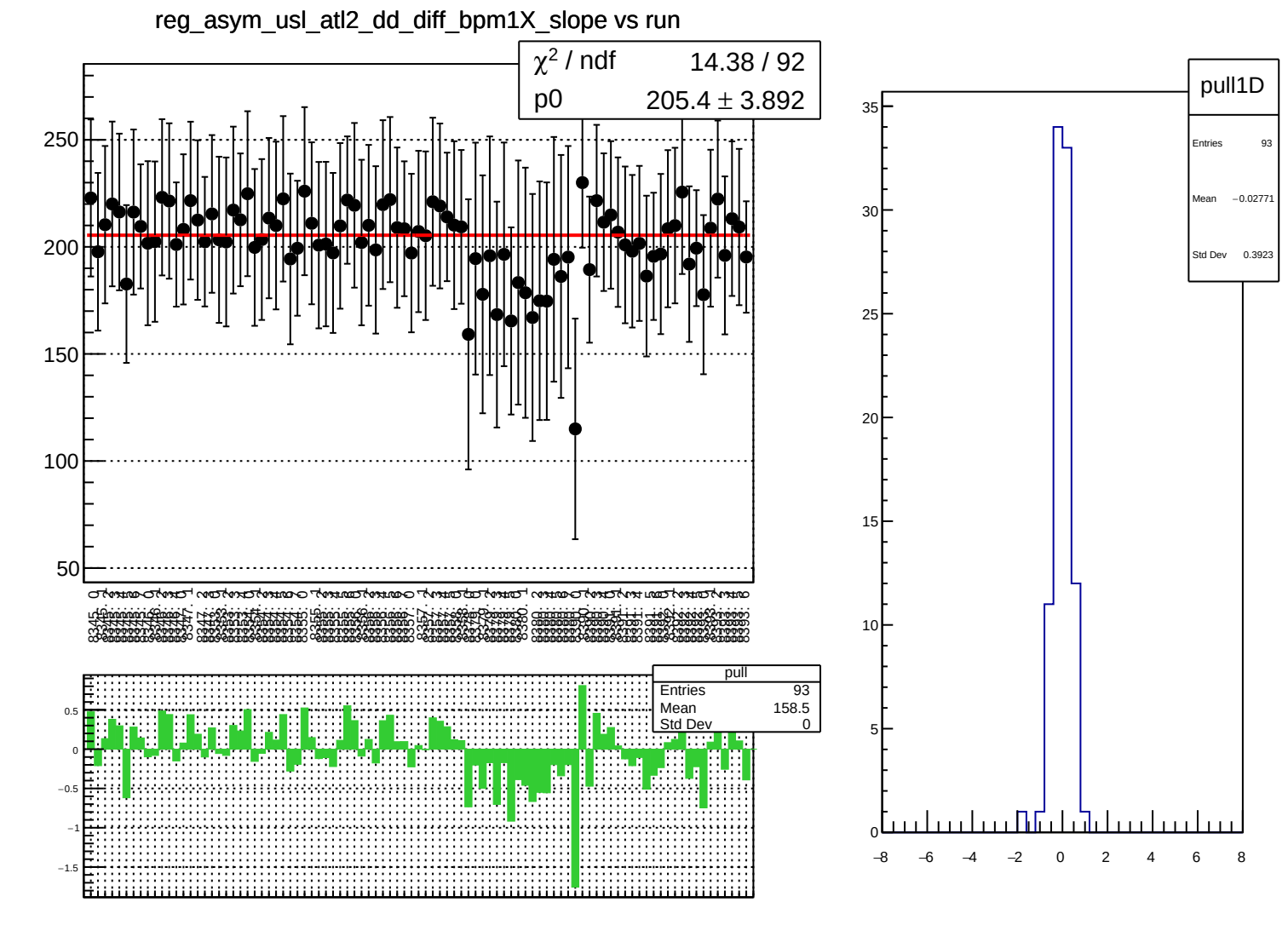

reg_asym_usl_atl2_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.322 / 92
p0 31.8 ± 7.591
150
100
50
0
−50
−100
pull
Entries 93
Mean 203.2
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 93
Mean 0.005215
Std Dev 0.3166
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

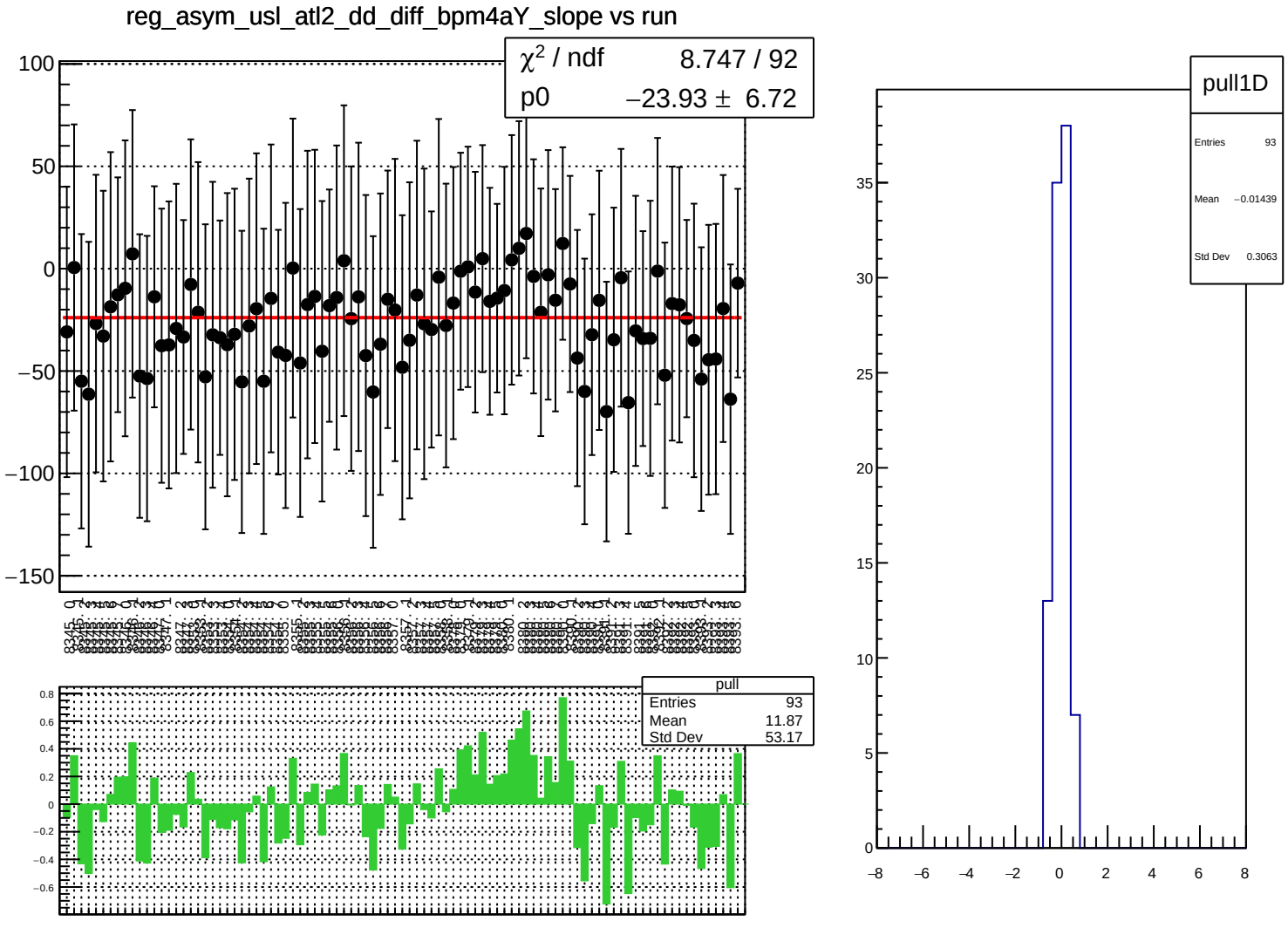

reg_asym_usl_atl2_avg_diff_bpm4eX_slope vs run
χ² / ndf 15.81 / 92
p0 174 ± 4.824
250
200
150
100
50
pull
Entries 93
Mean 252.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean −0.01097
Std Dev 0.4122
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

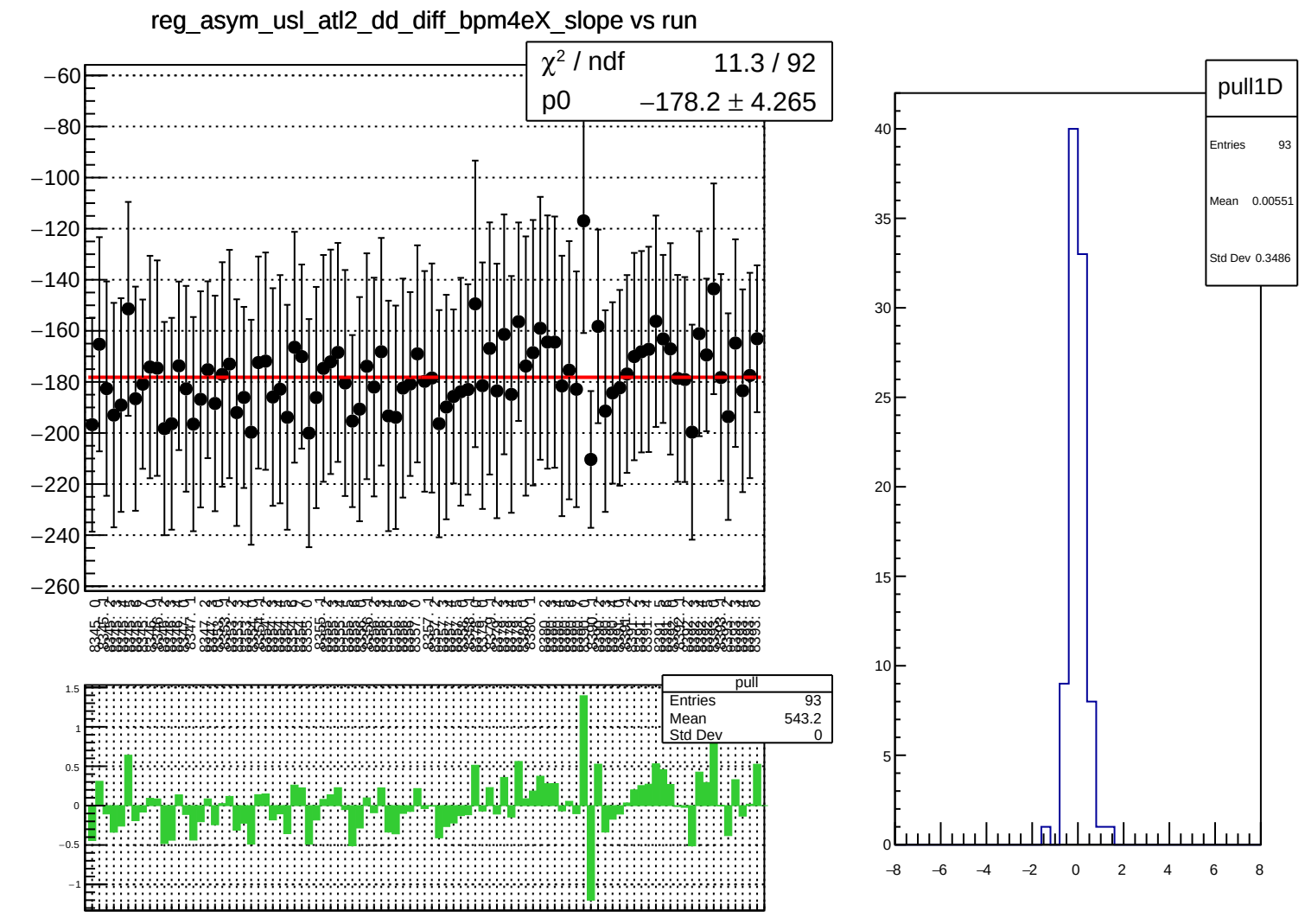

reg_asym_usl_atl2_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.558 / 92
p0 40.24 ± 8.047
200
150
100
50
0
−50
−100
pull
Entries 93
Mean −772.1
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

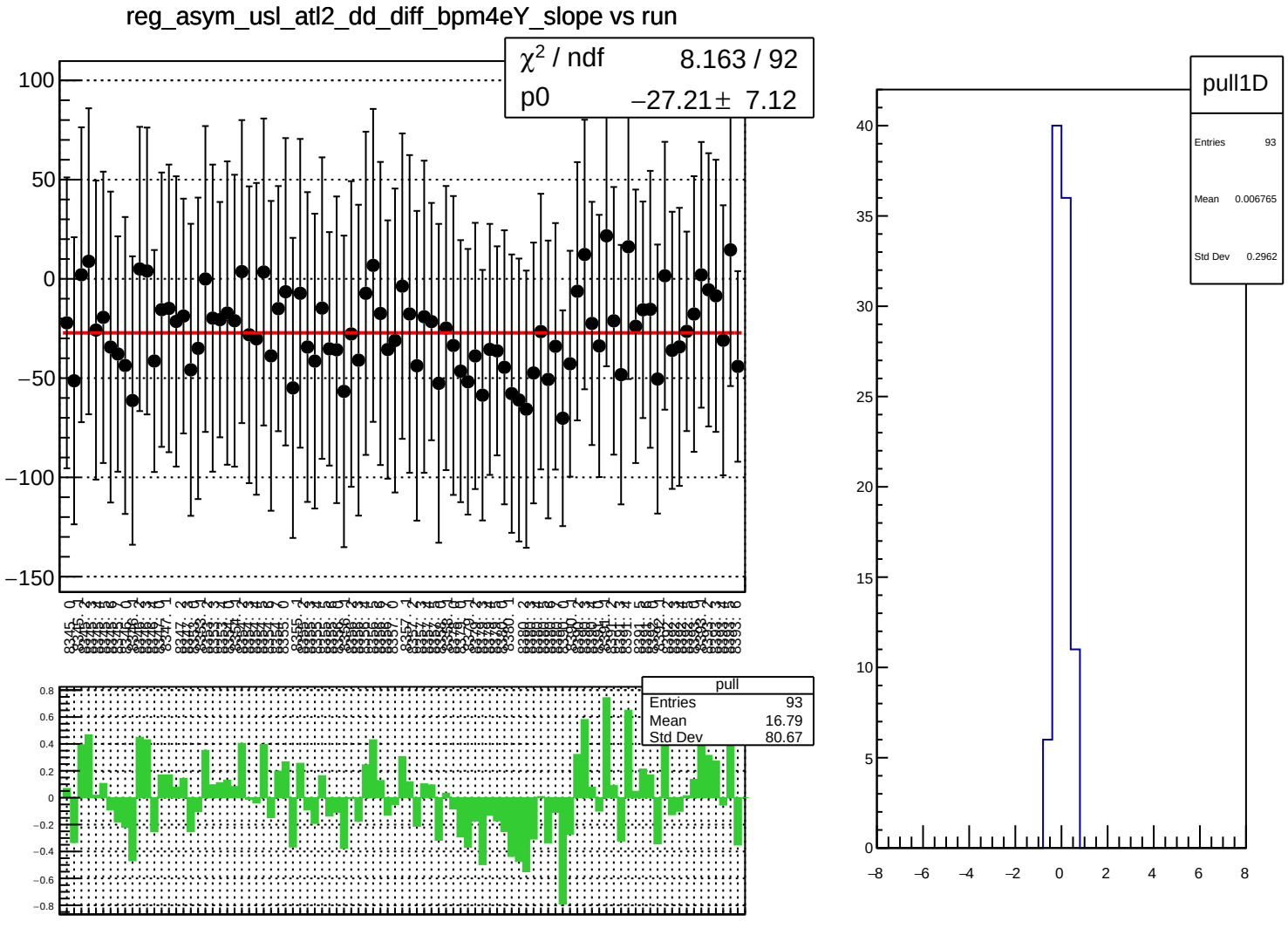

pull1D
Entries 93
Mean 0.001294
Std Dev 0.3206
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

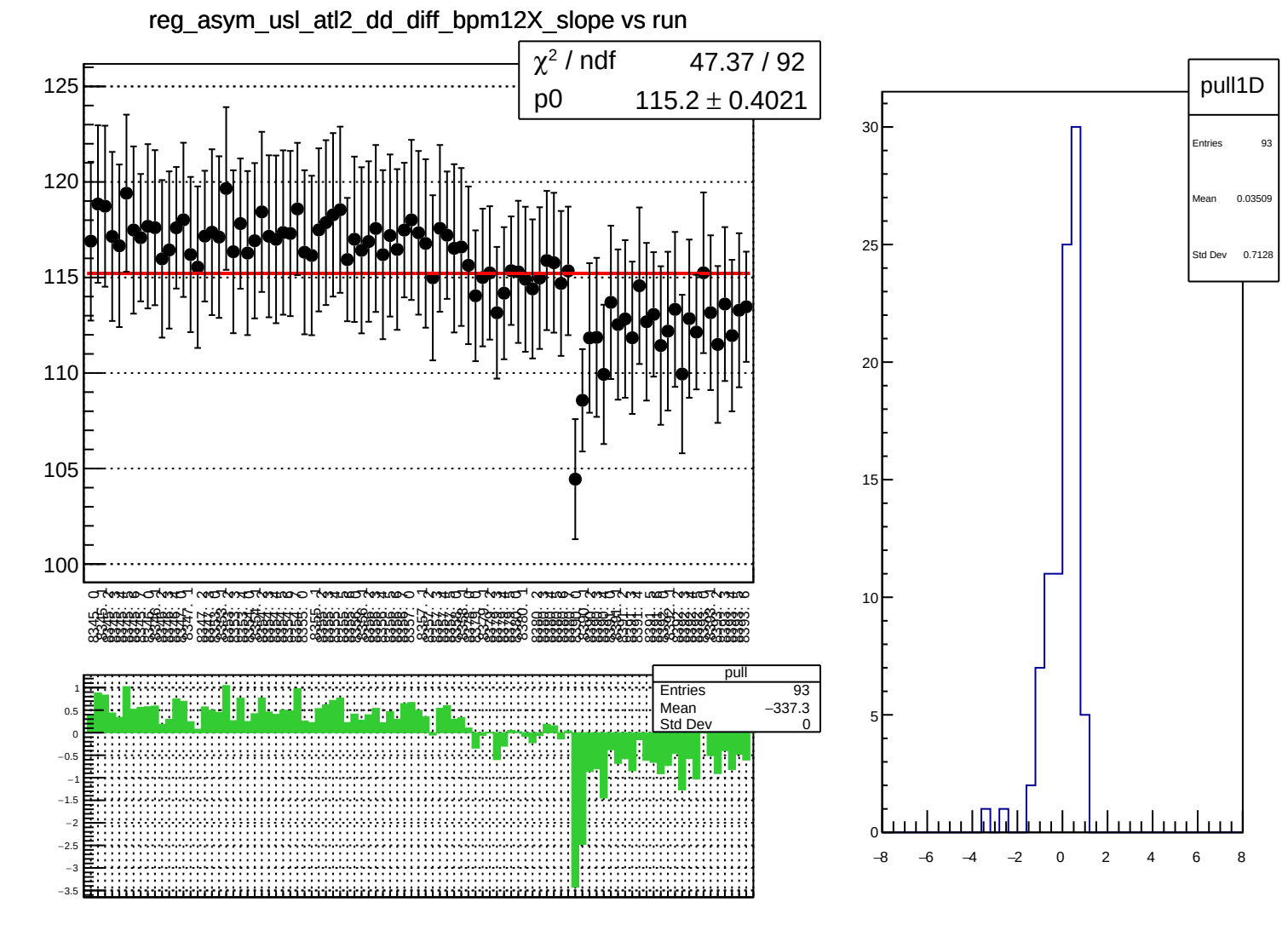

reg_asym_usl_atl2_avg_diff_bpm12X_slope vs run
χ² / ndf 80.5 / 92
p0 −153.5 ± 0.4544
−135
−140
−145
−150
−155
−160
−165
pull
Entries 93
Mean −400.5
Std Dev 0
3
2
1
0
−1
pull1D
Entries 93
Mean −0.03572
Std Dev 0.9297
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

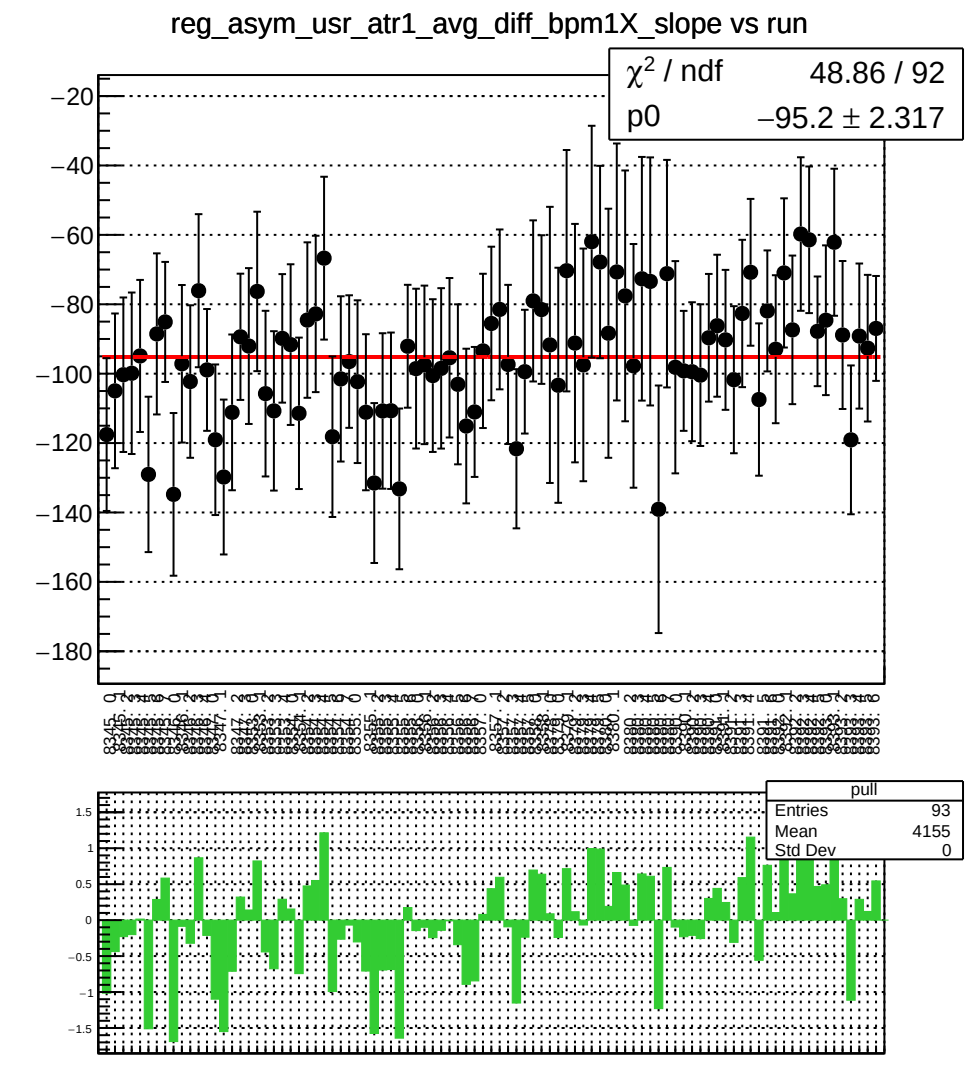

reg_asym_usl_atl2_dd_diff_bpm1X_slope vs run
χ² / ndf 14.38 / 92
p0 205.4 ± 3.892
250
200
150
100
50
pull
Entries 93
Mean 158.5
Std Dev 0
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean −0.02771
Std Dev 0.3923
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

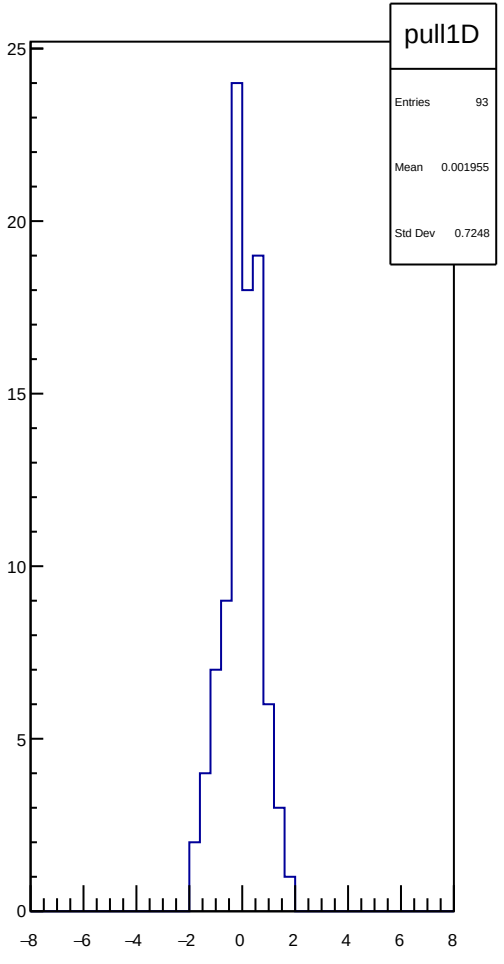

reg_asym_usl_atl2_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.747 / 92
p0 −23.93 ± 6.72
pull
Entries 93
Mean 11.87
Std Dev 53.17
pull1D
Entries 93
Mean −0.01439
Std Dev 0.3063

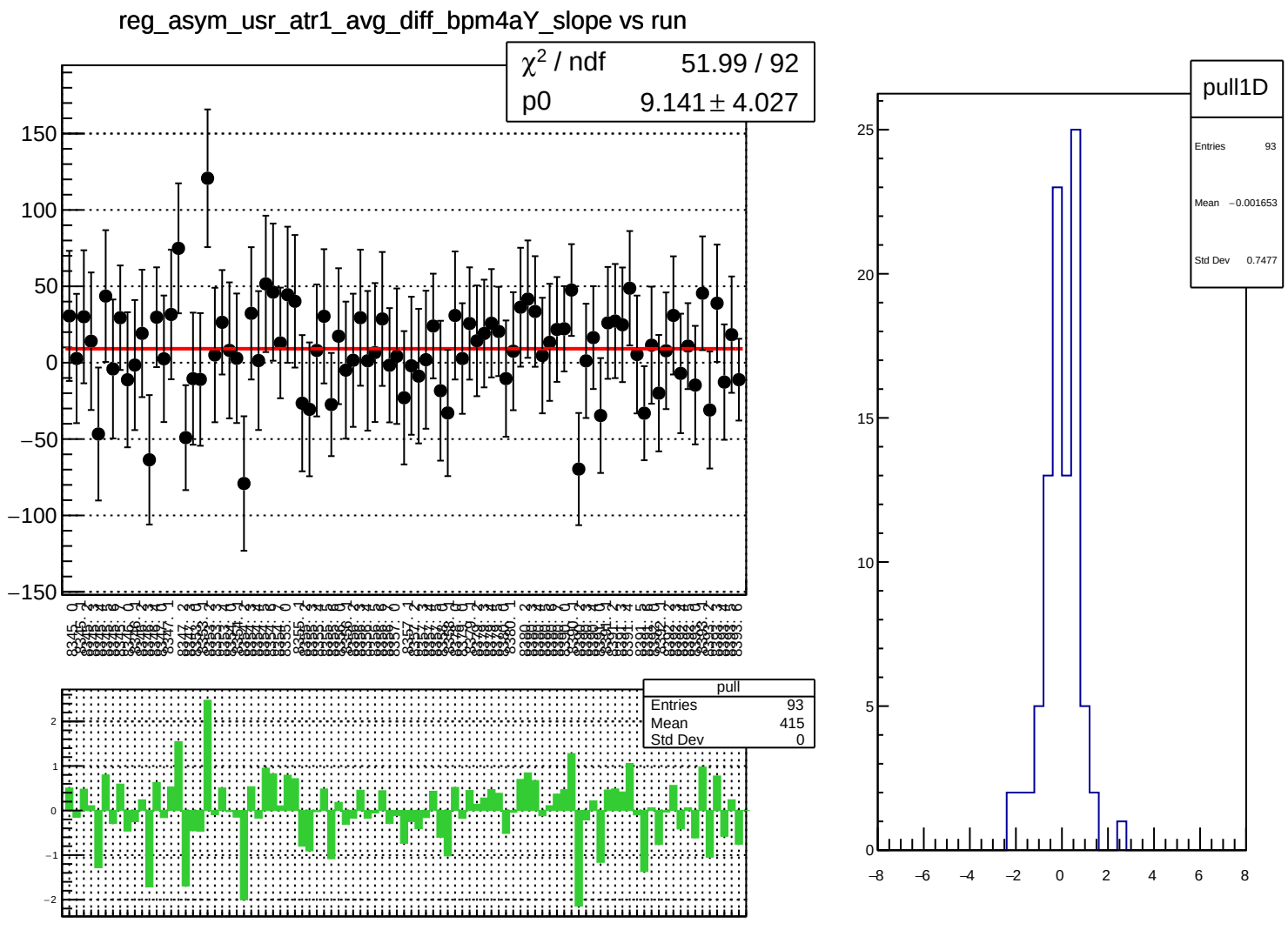

reg_asym_usl_atl2_dd_diff_bpm4eX_slope vs run
χ² / ndf 11.3 / 92
p0 −178.2 ± 4.265
pull
Entries 93
Mean 543.2
Std Dev 0
pull1D
Entries 93
Mean 0.00551
Std Dev 0.3486

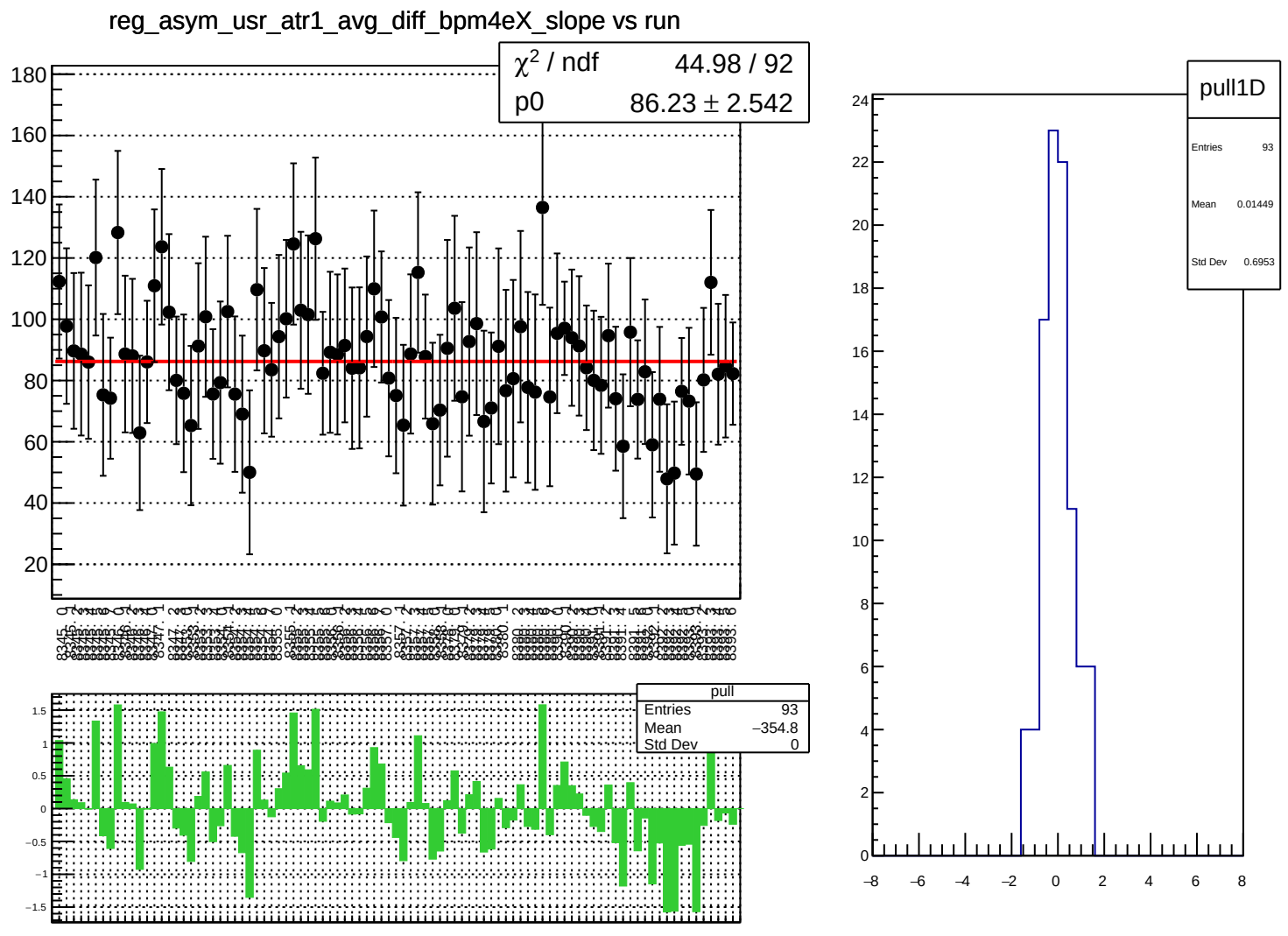

reg_asym_usl_atl2_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.163 / 92
p0 −27.21 ± 7.12
pull
Entries 93
Mean 16.79
Std Dev 80.67
pull1D
Entries 93
Mean 0.006765
Std Dev 0.2962

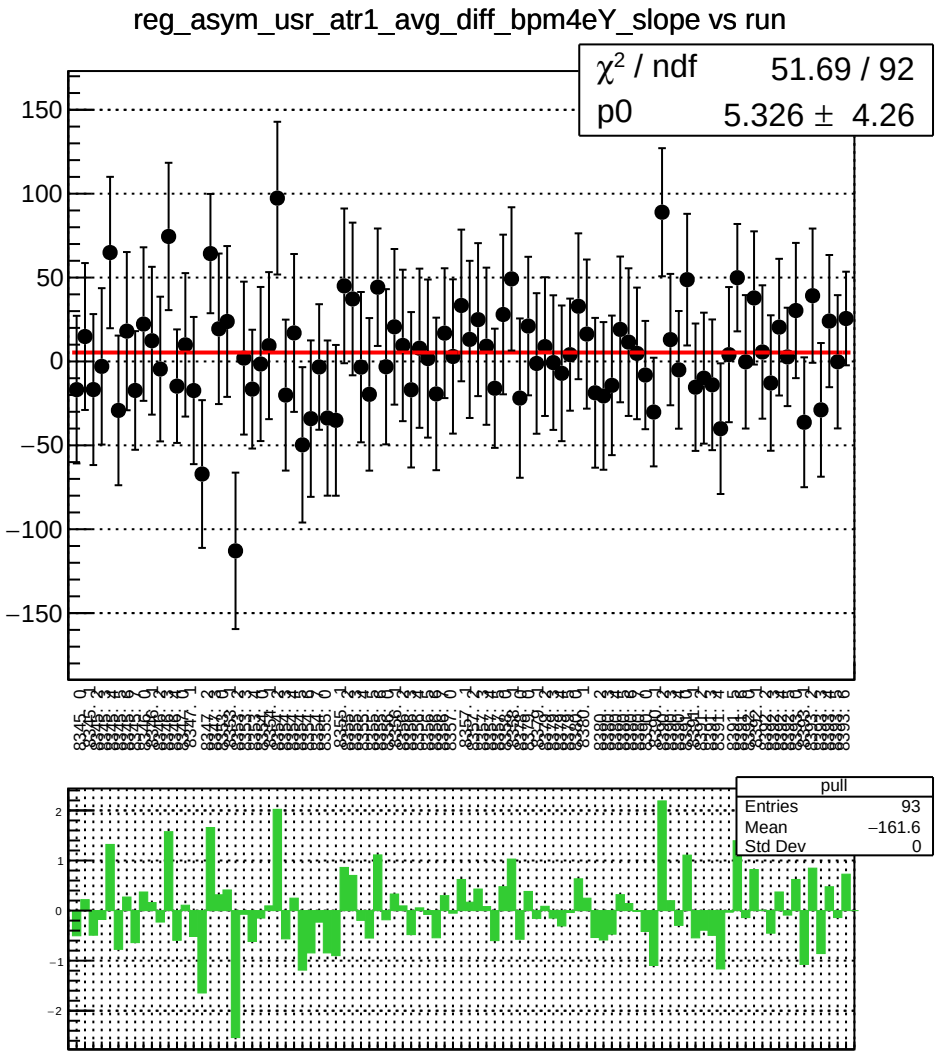

reg_asym_usl_atl2_dd_diff_bpm12X_slope vs run
χ² / ndf 47.37 / 92
p0 115.2 ± 0.4021
125
120
115
110
105
100
pull
Entries 93
Mean −337.3
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5
pull1D
Entries 93
Mean 0.03509
Std Dev 0.7128
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

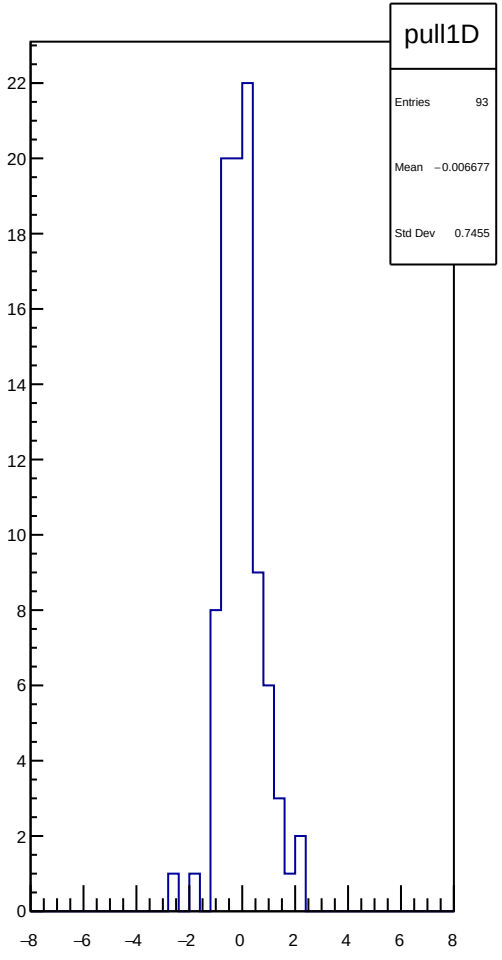

reg_asym_usr_atr1_avg_diff_bpm1X_slope vs run
χ² / ndf 48.86 / 92
p0 −95.2 ± 2.317
pull
Entries 93
Mean 4155
Std Dev 0

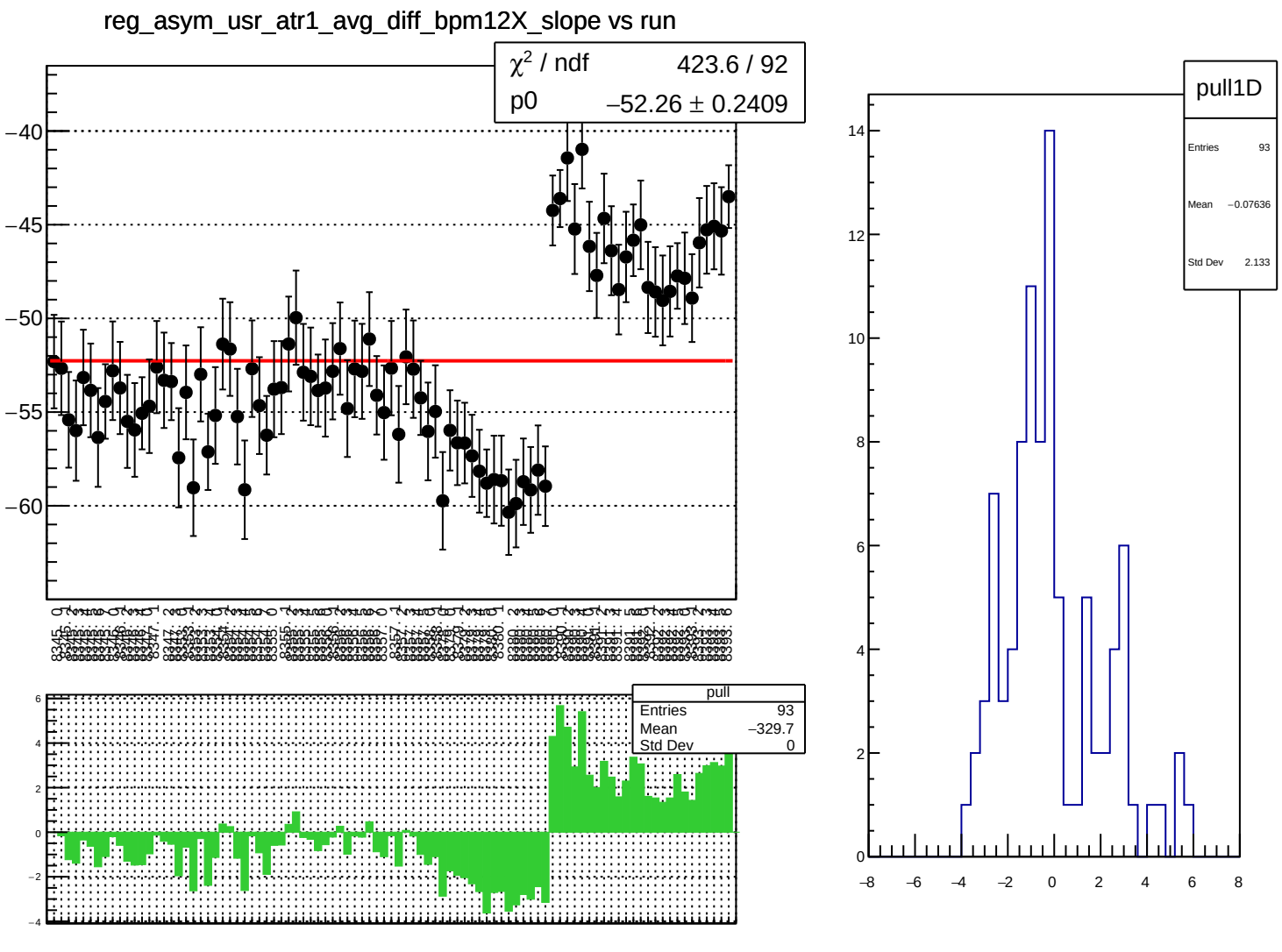

pull1D
Entries 93
Mean 0.001955
Std Dev 0.7248

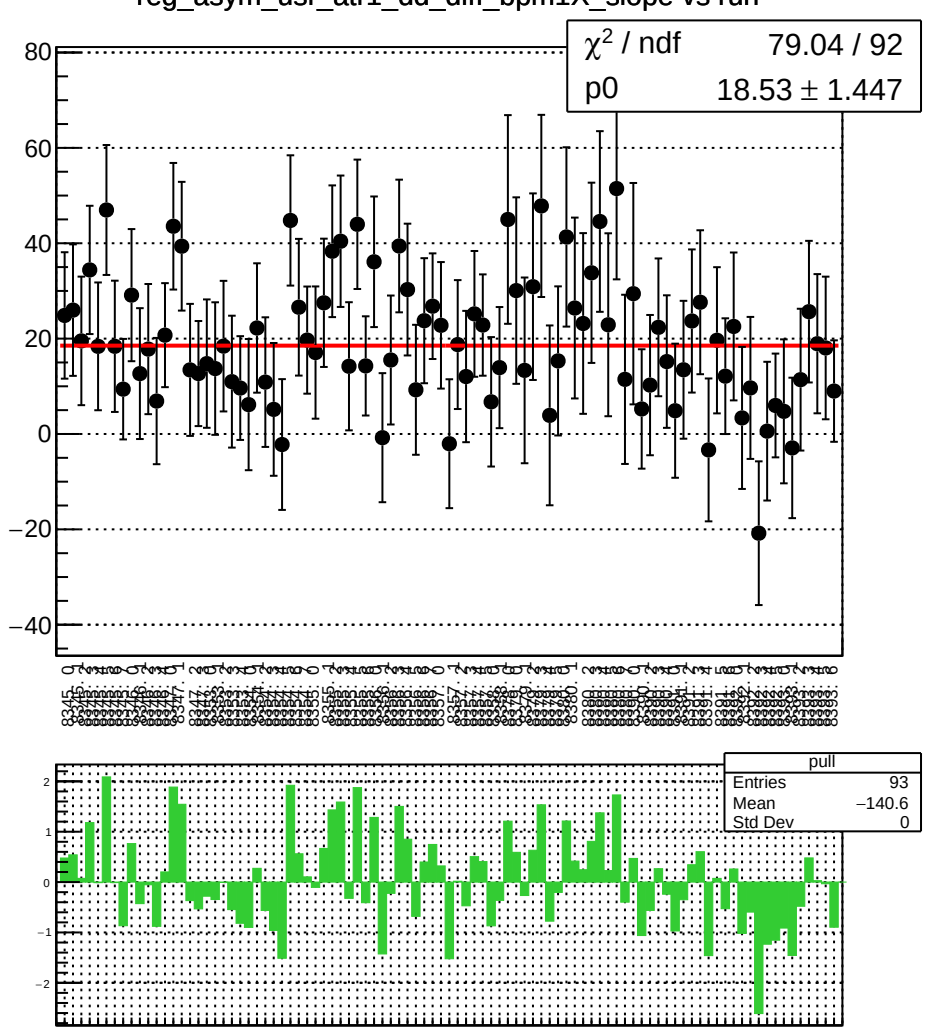

reg_asym_usr_atr1_avg_diff_bpm4aY_slope vs run
χ² / ndf 51.99 / 92
p0 9.141 ± 4.027
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean 415
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.001653
Std Dev 0.7477
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

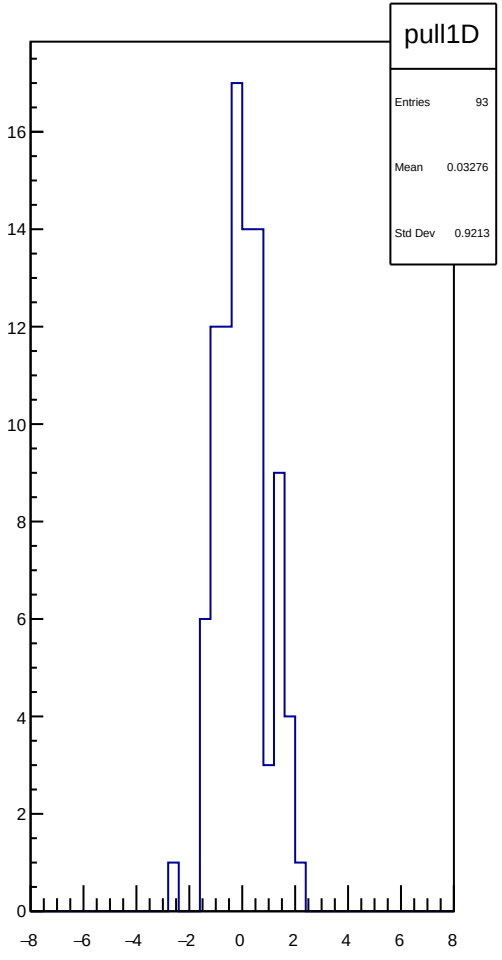

reg_asym_usr_atr1_avg_diff_bpm4eX_slope vs run
χ² / ndf 44.98 / 92
p0 86.23 ± 2.542
pull
Entries 93
Mean −354.8
Std Dev 0
pull1D
Entries 93
Mean 0.01449
Std Dev 0.6953

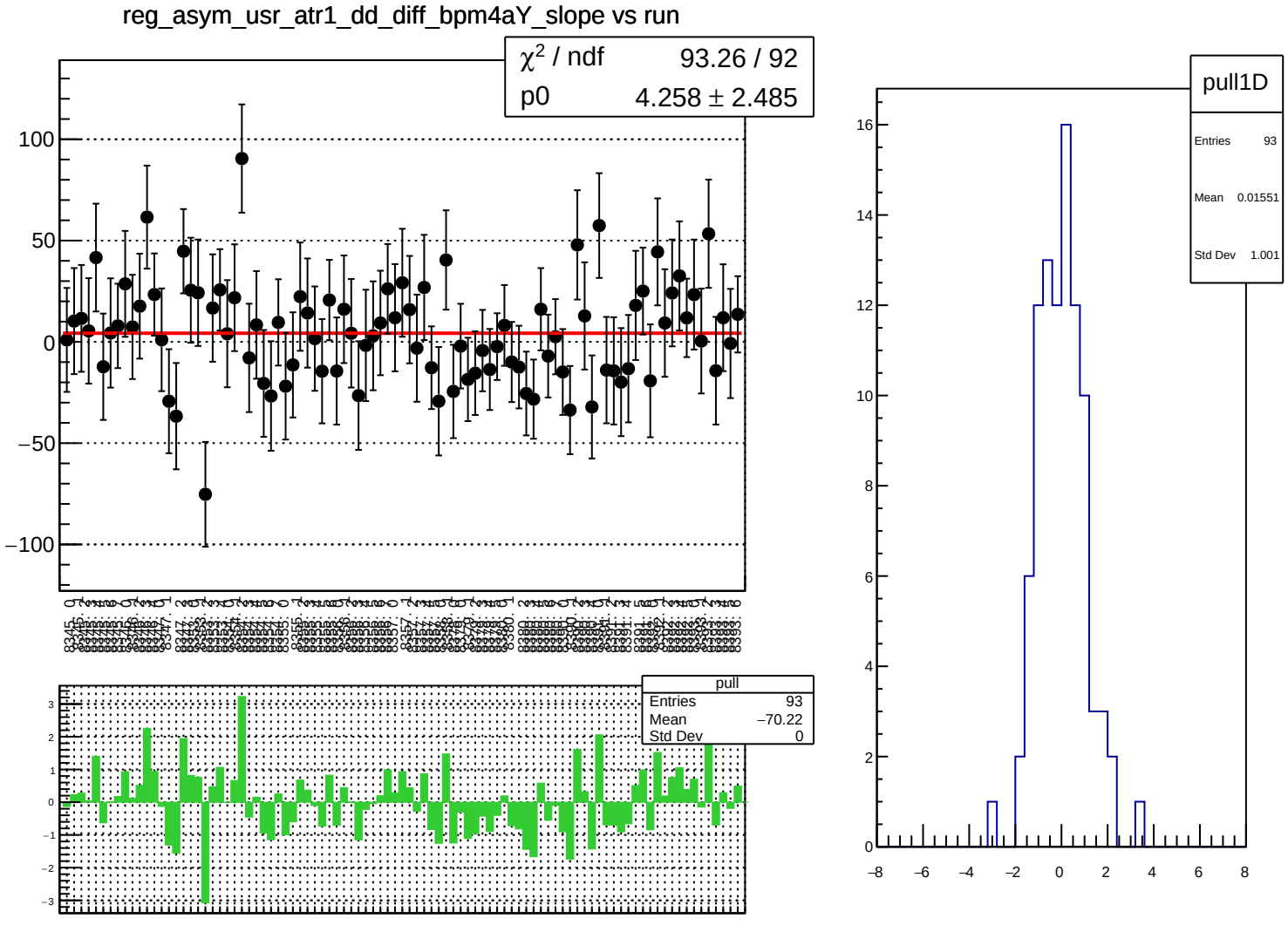

reg_asym_usr_atr1_avg_diff_bpm4eY_slope vs run
χ² / ndf 51.69 / 92
p0 5.326 ± 4.26
pull
Entries 93
Mean −161.6
Std Dev 0

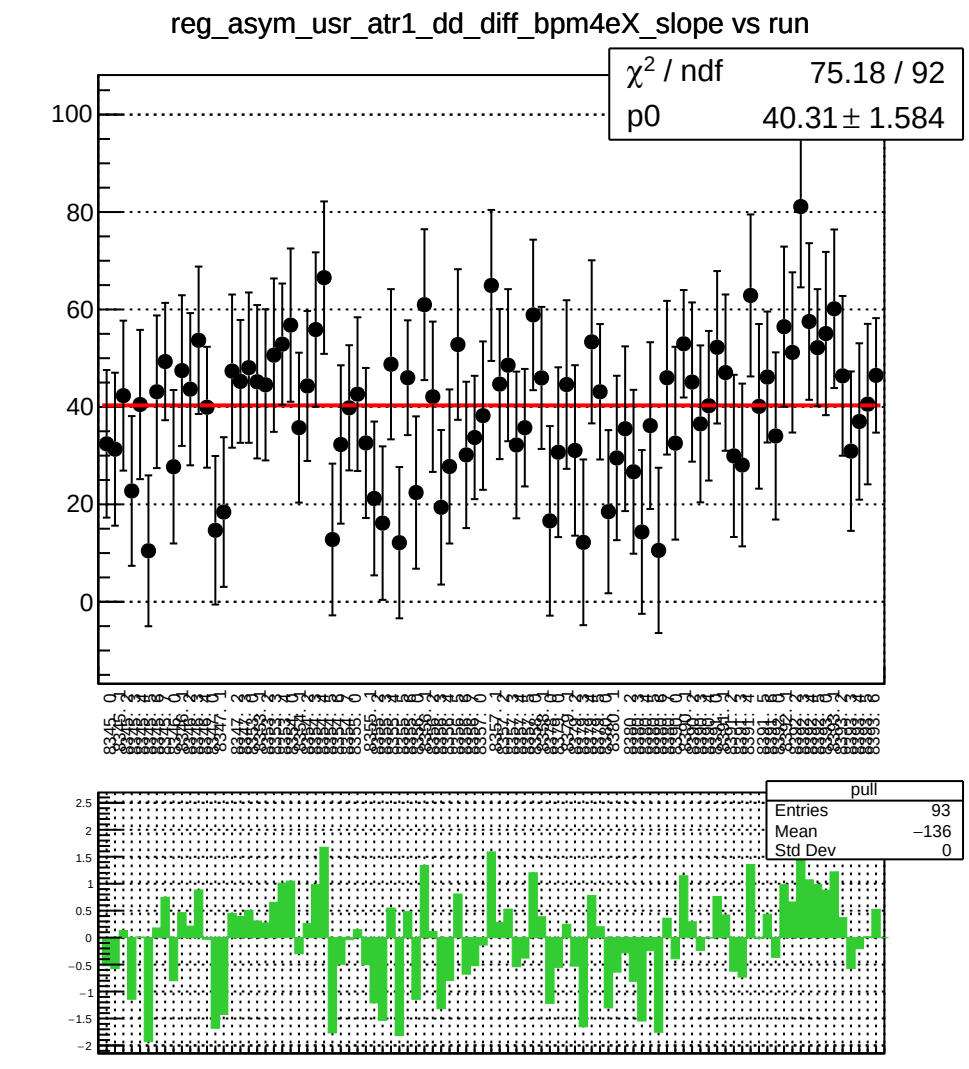

pull1D
Entries 93
Mean −0.006677
Std Dev 0.7455

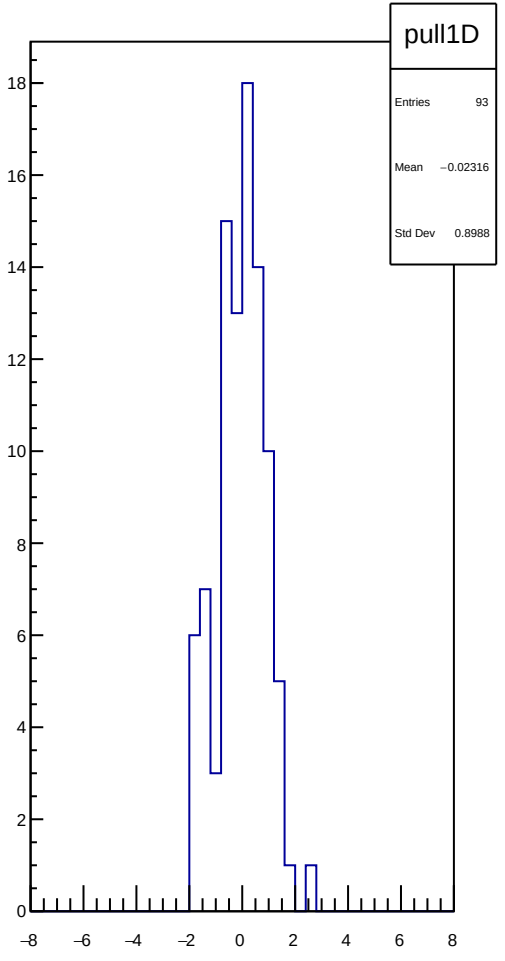

reg_asym_usr_atr1_avg_diff_bpm12X_slope vs run
χ² / ndf 423.6 / 92
p0 −52.26 ± 0.2409
pull
Entries 93
Mean −329.7
Std Dev 0
pull1D
Entries 93
Mean −0.07636
Std Dev 2.133

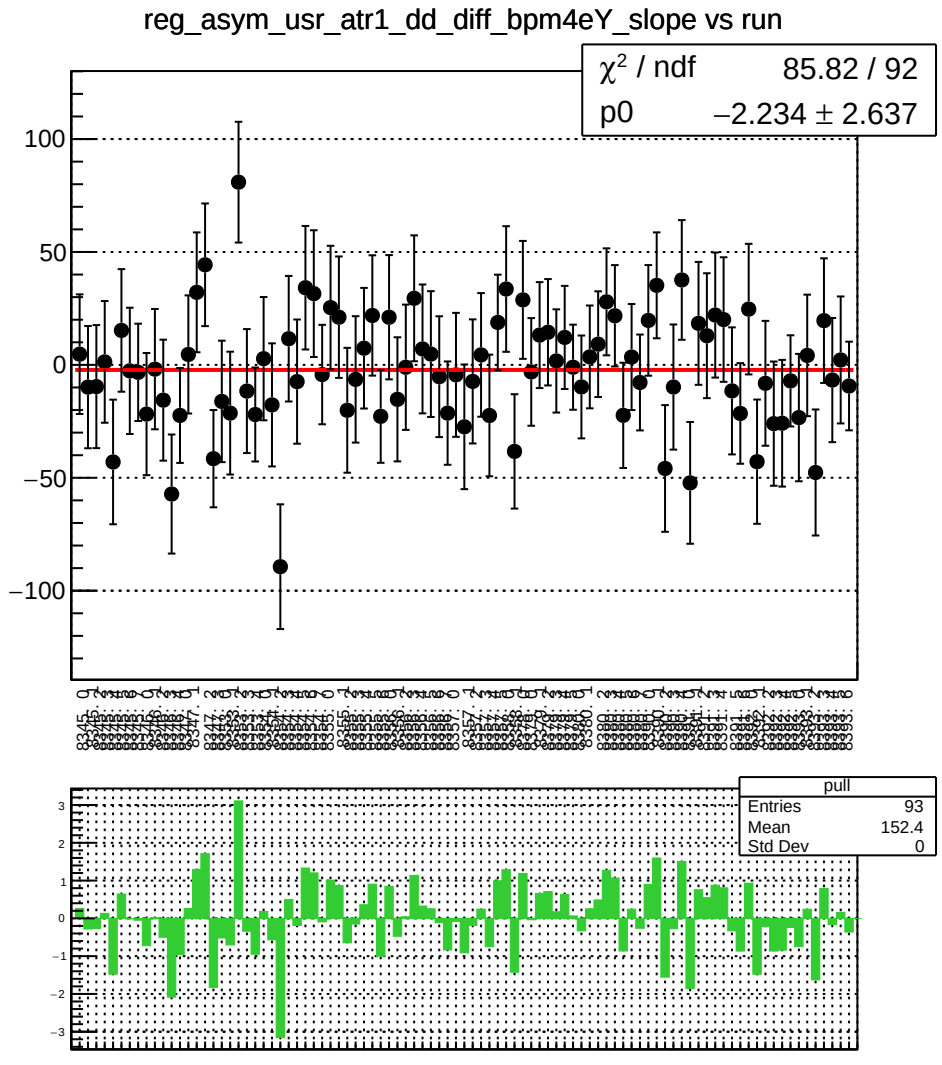

reg_asym_usr_atr1_dd_diff_bpm1X_slope vs run
χ² / ndf 79.04 / 92
p0 18.53 ± 1.447
pull
Entries 93
Mean −140.6
Std Dev 0

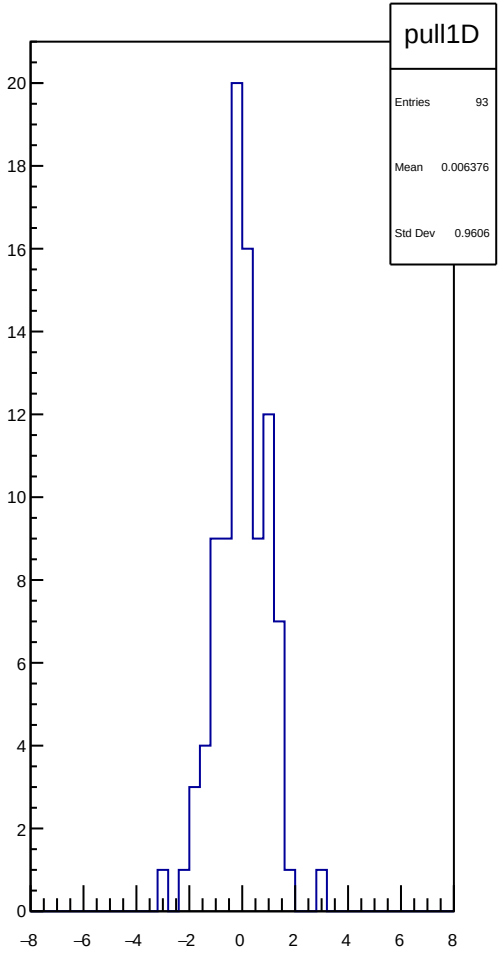

pull1D
Entries 93
Mean 0.03276
Std Dev 0.9213

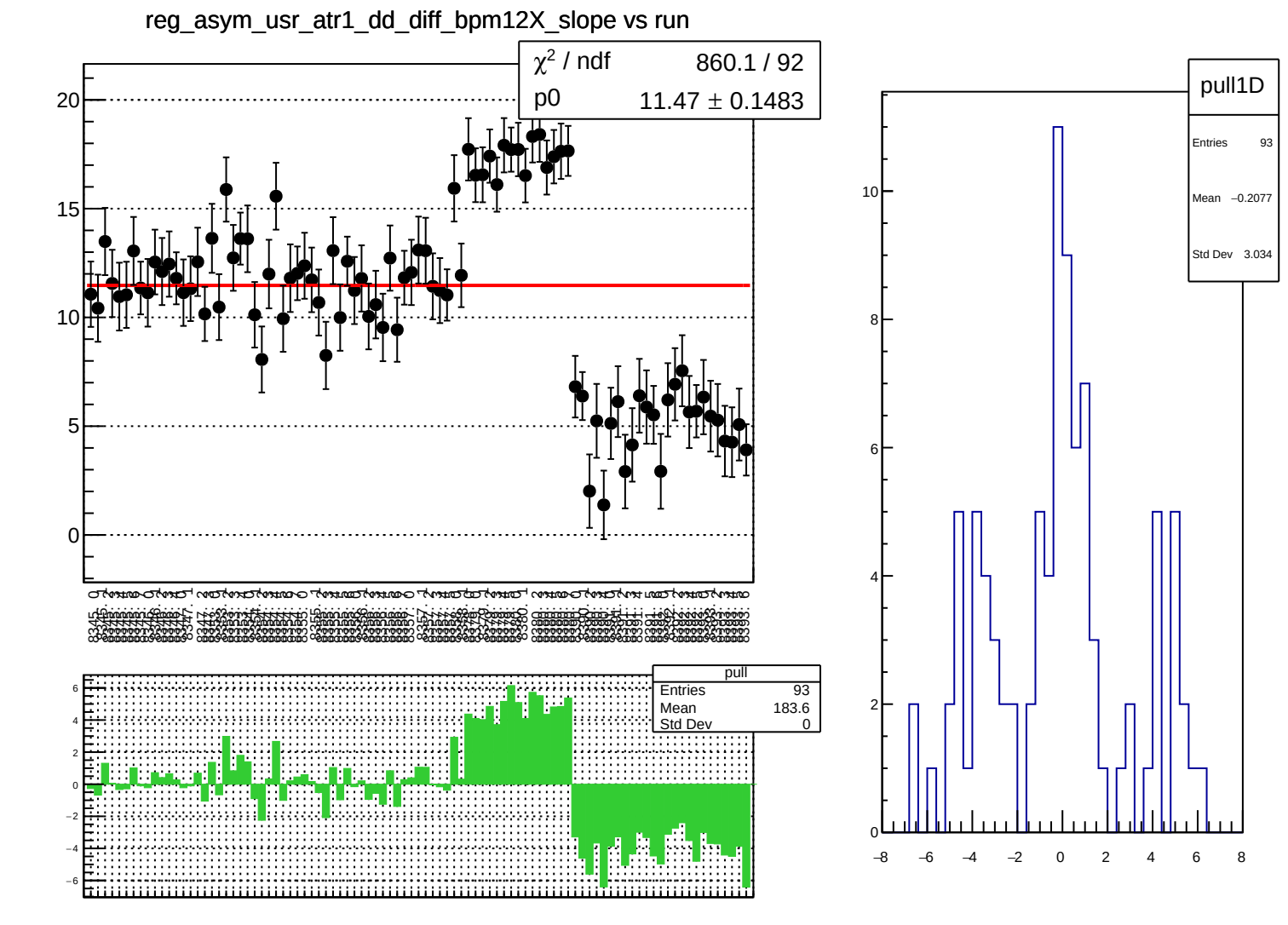

reg_asym_usr_atr1_dd_diff_bpm4aY_slope vs run
χ² / ndf 93.26 / 92
p0 4.258 ± 2.485
100
50
0
−50
−100
pull
Entries 93
Mean −70.22
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.01551
Std Dev 1.001
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

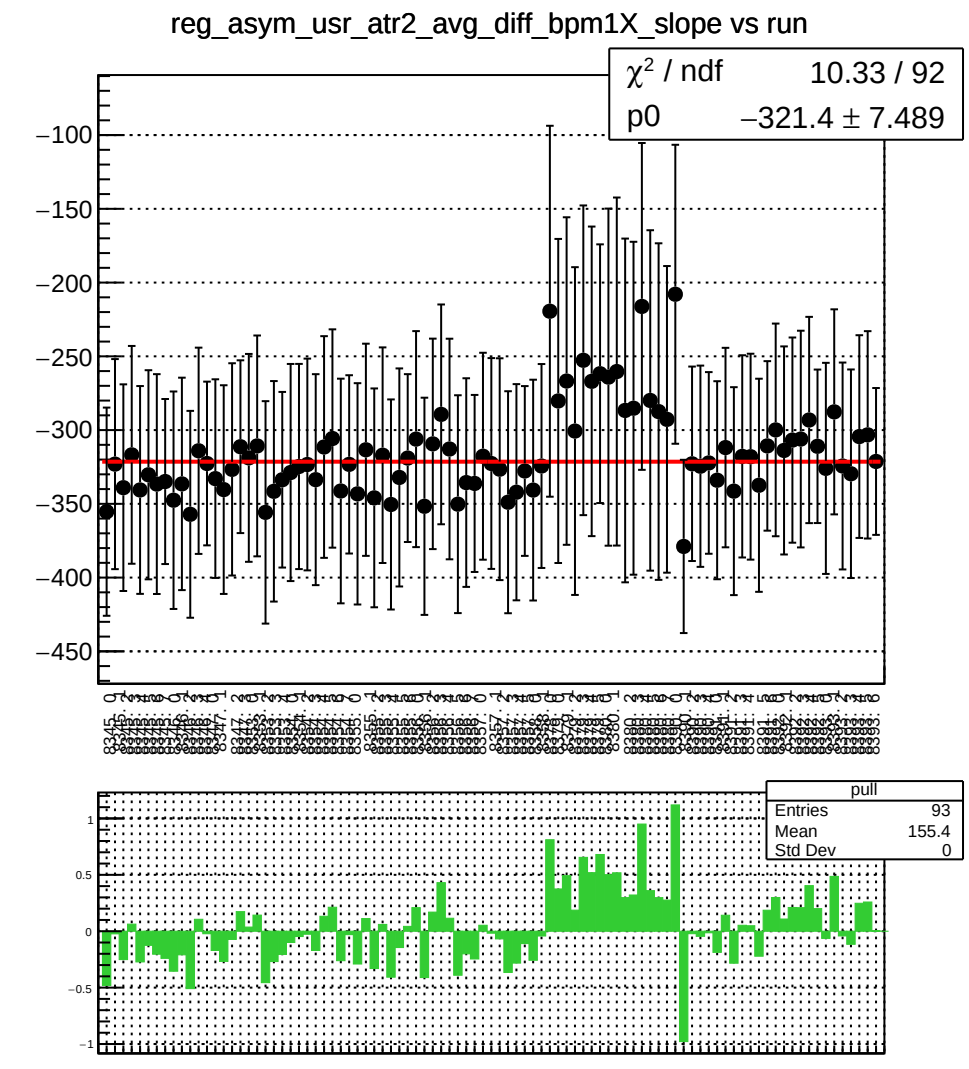

reg_asym_usr_atr1_dd_diff_bpm4eX_slope vs run
χ² / ndf 75.18 / 92
p0 40.31 ± 1.584
pull
Entries 93
Mean −136
Std Dev 0

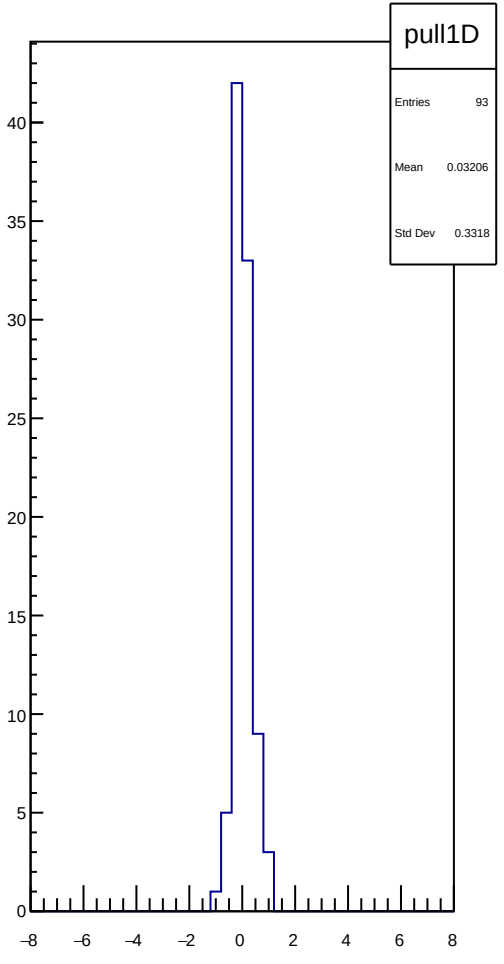

pull1D
Entries 93
Mean −0.02316
Std Dev 0.8988

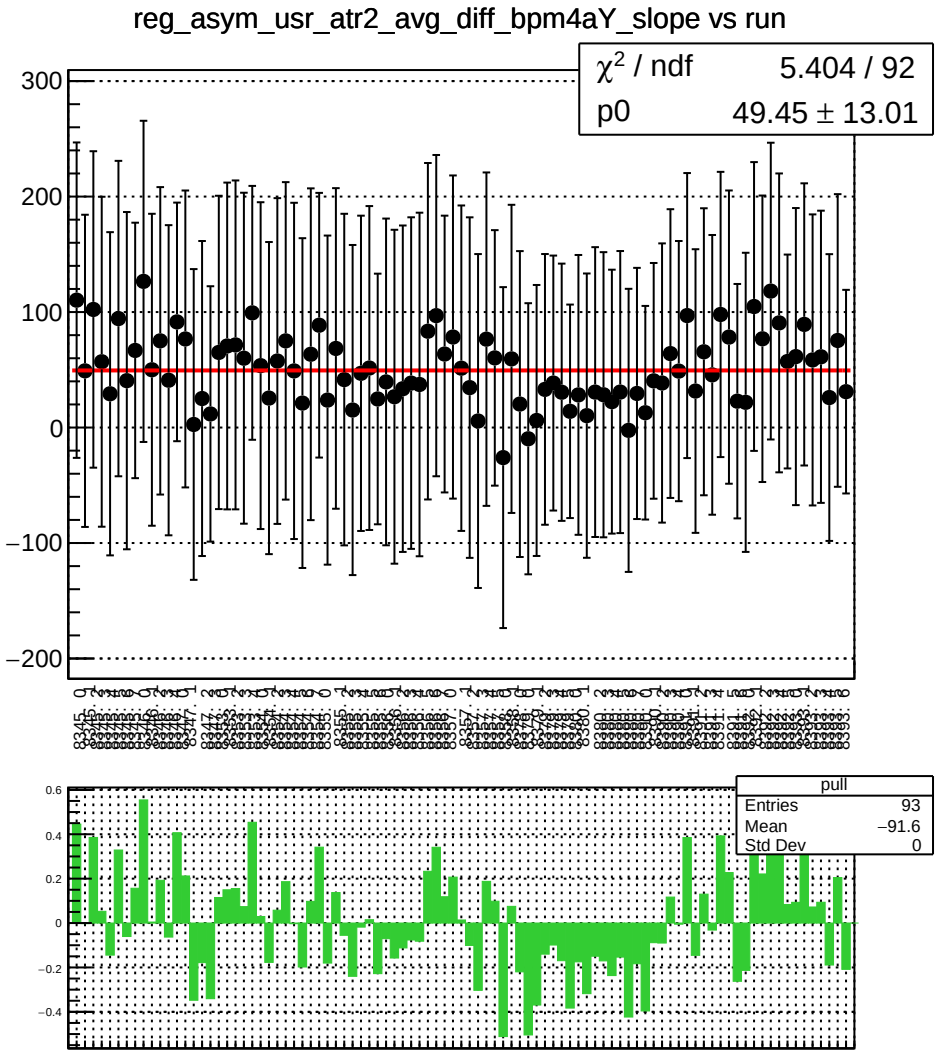

reg_asym_usr_atr1_dd_diff_bpm4eY_slope vs run
χ² / ndf 85.82 / 92
p0 −2.234 ± 2.637
pull
Entries 93
Mean 152.4
Std Dev 0

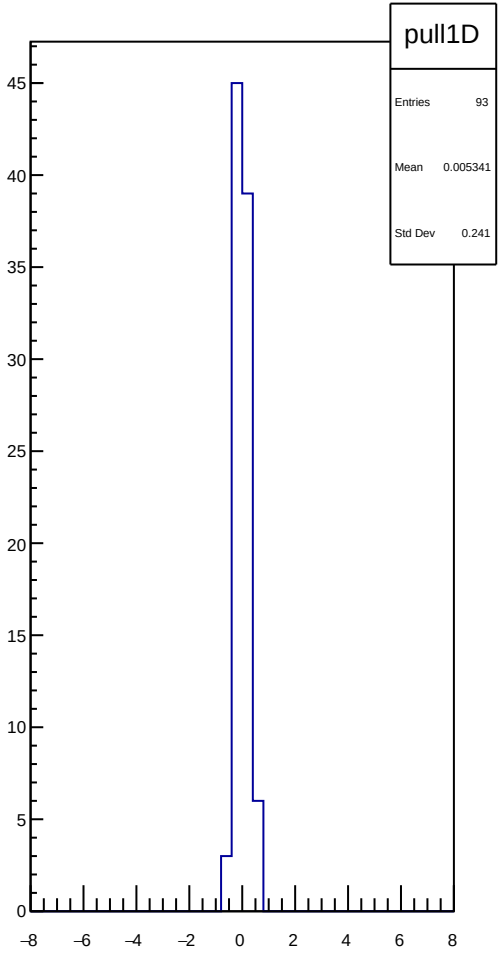

pull1D
Entries 93
Mean 0.006376
Std Dev 0.9606

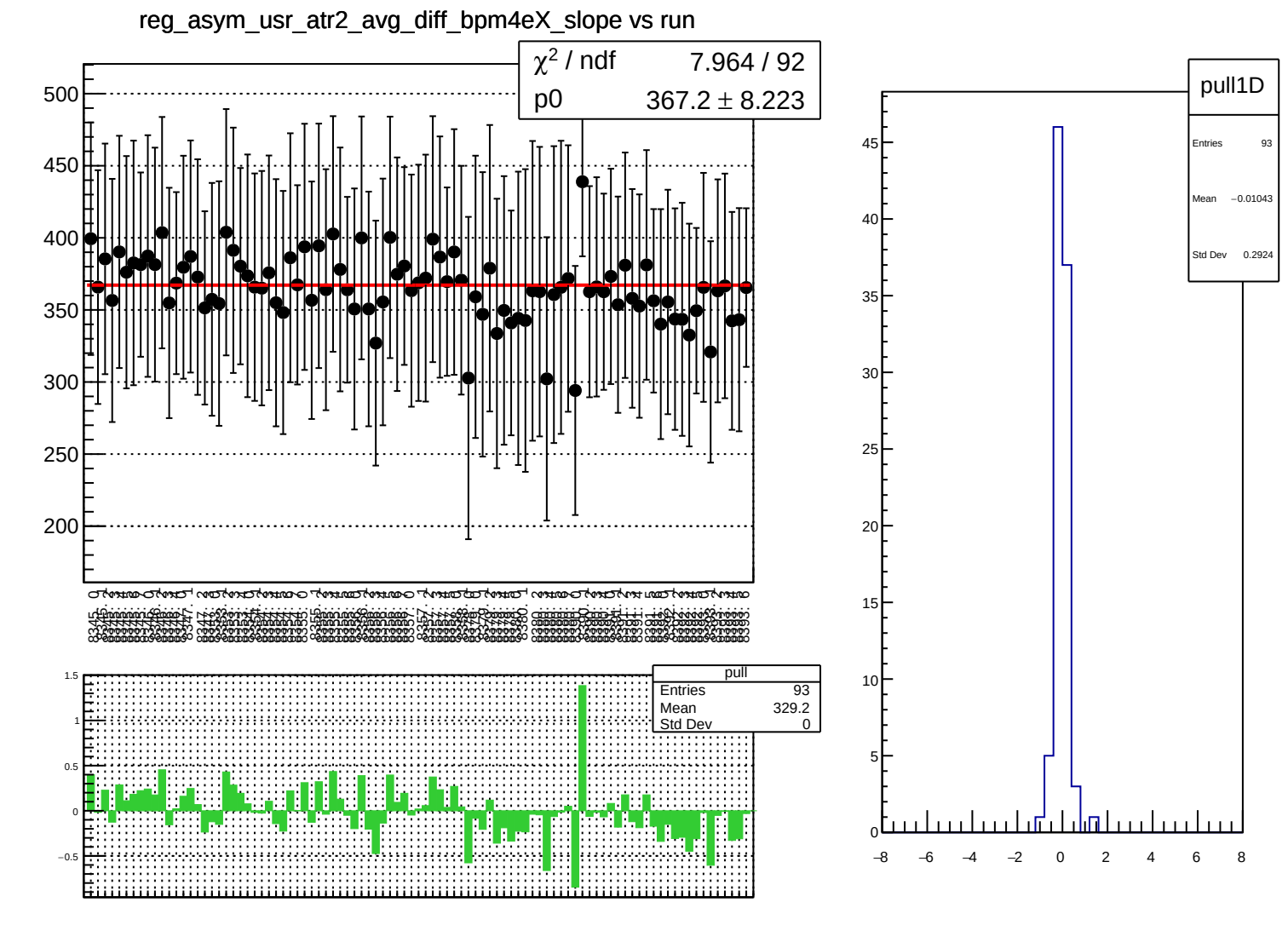

reg_asym_usr_atr1_dd_diff_bpm12X_slope vs run
χ² / ndf 860.1 / 92
p0 11.47 ± 0.1483
pull
Entries 93
Mean 183.6
Std Dev 0
pull1D
Entries 93
Mean −0.2077
Std Dev 3.034

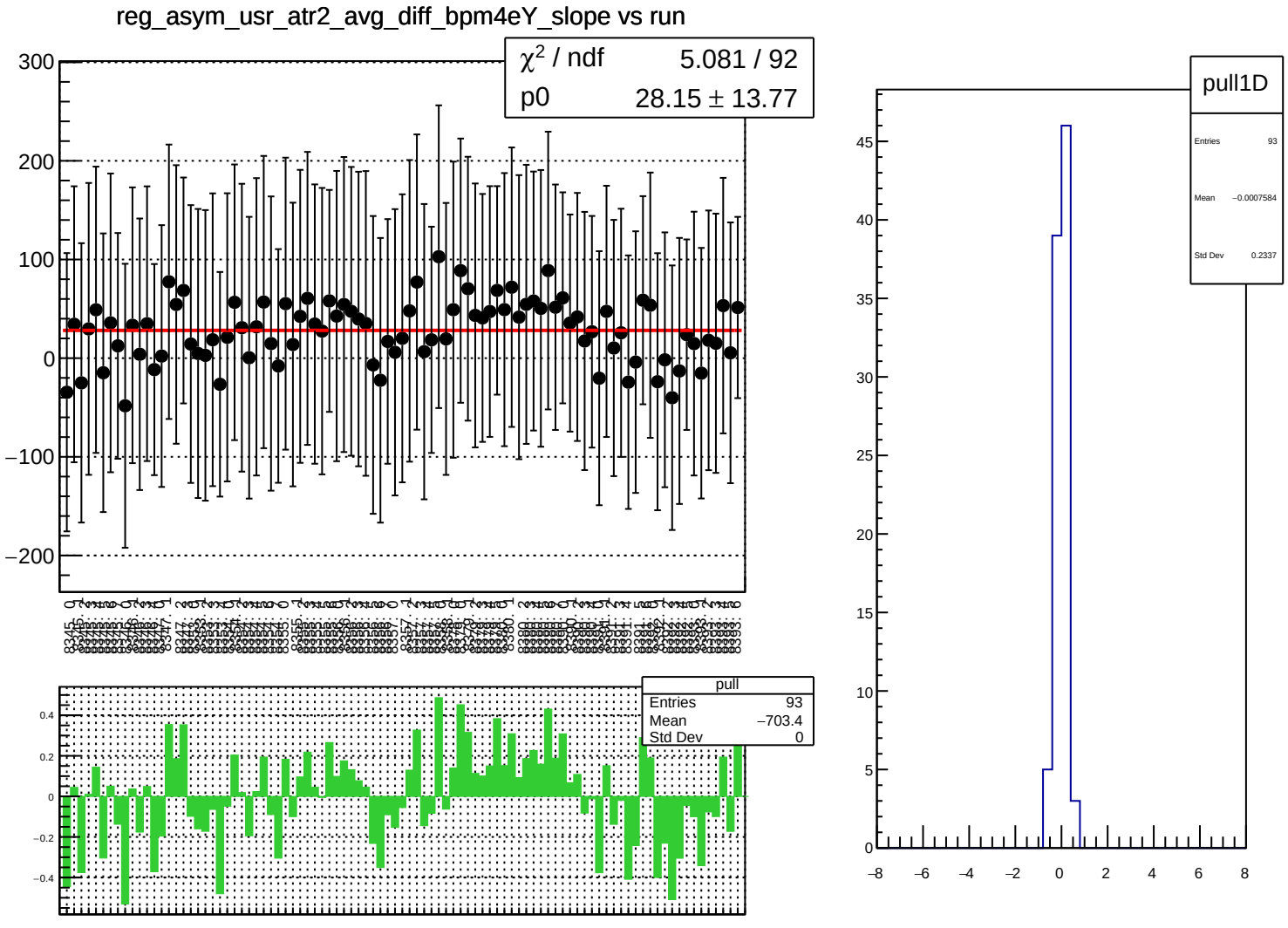

reg_asym_usr_atr2_avg_diff_bpm1X_slope vs run
χ² / ndf 10.33 / 92
p0 −321.4 ± 7.489
pull
Entries 93
Mean 155.4
Std Dev 0

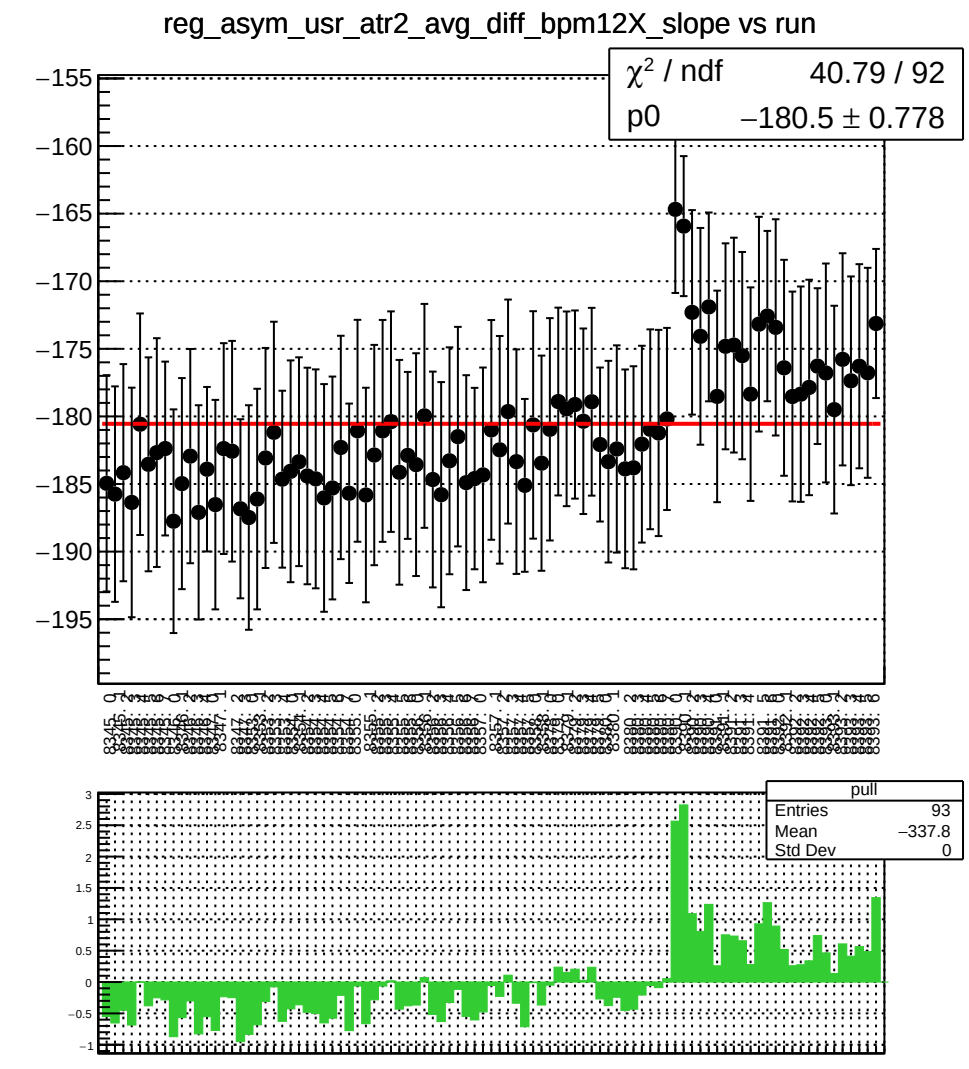

pull1D
Entries 93
Mean 0.03206
Std Dev 0.3318

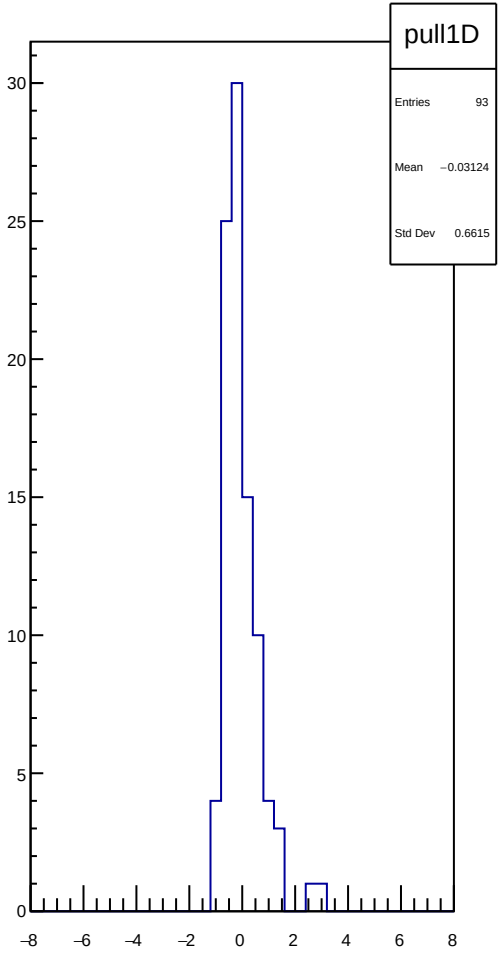

reg_asym_usr_atr2_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.404 / 92
p0 49.45 ± 13.01
pull
Entries 93
Mean −91.6
Std Dev 0

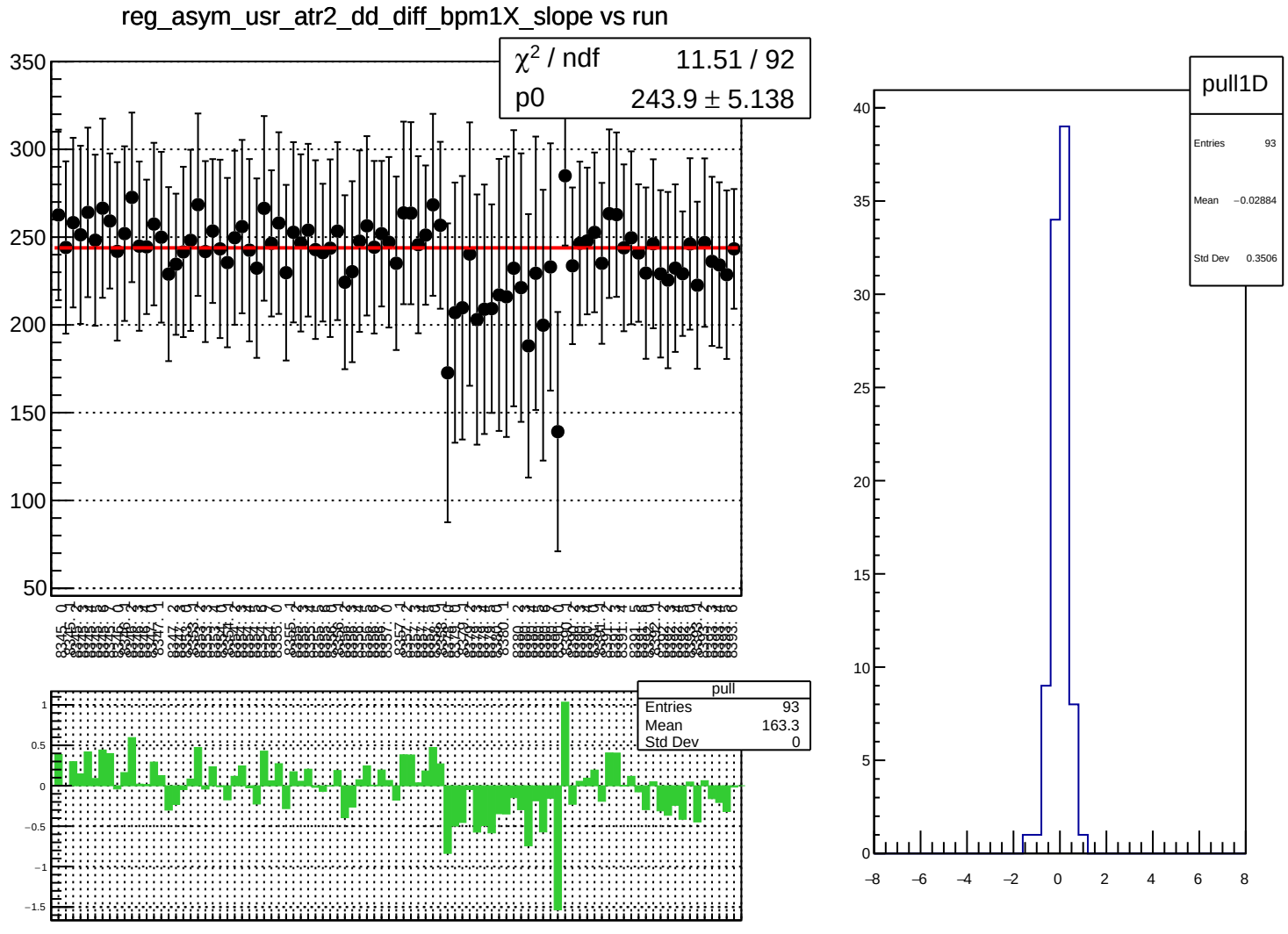

pull1D
Entries 93
Mean 0.005341
Std Dev 0.241

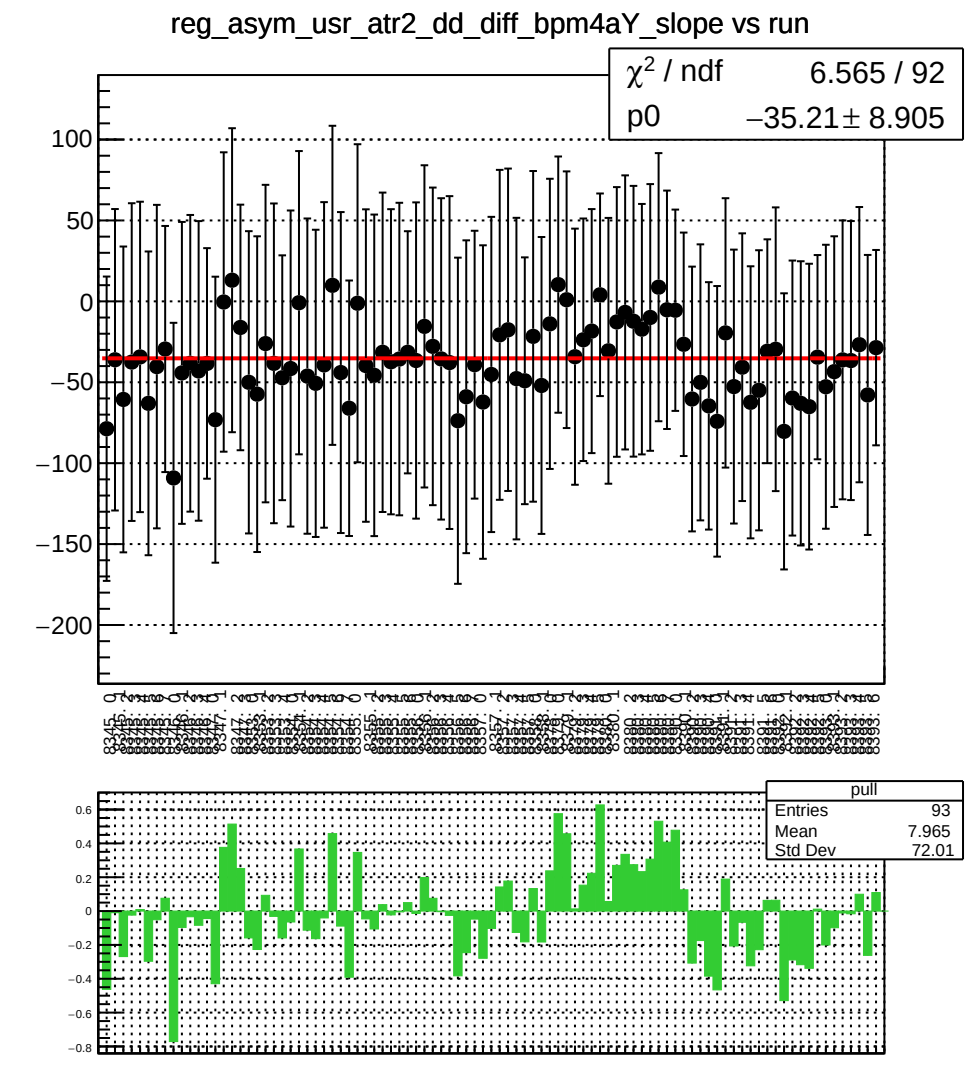

reg_asym_usr_atr2_avg_diff_bpm4eX_slope vs run
χ² / ndf 7.964 / 92
p0 367.2 ± 8.223
pull
Entries 93
Mean 329.2
Std Dev 0
pull1D
Entries 93
Mean −0.01043
Std Dev 0.2924

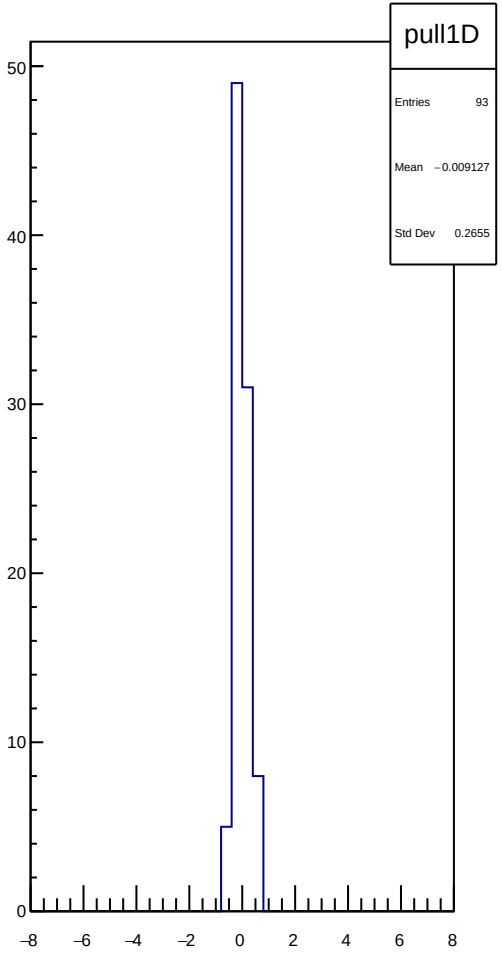

reg_asym_usr_atr2_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.081 / 92
p0 28.15 ± 13.77
pull
Entries 93
Mean −703.4
Std Dev 0
pull1D
Entries 93
Mean −0.0007584
Std Dev 0.2337

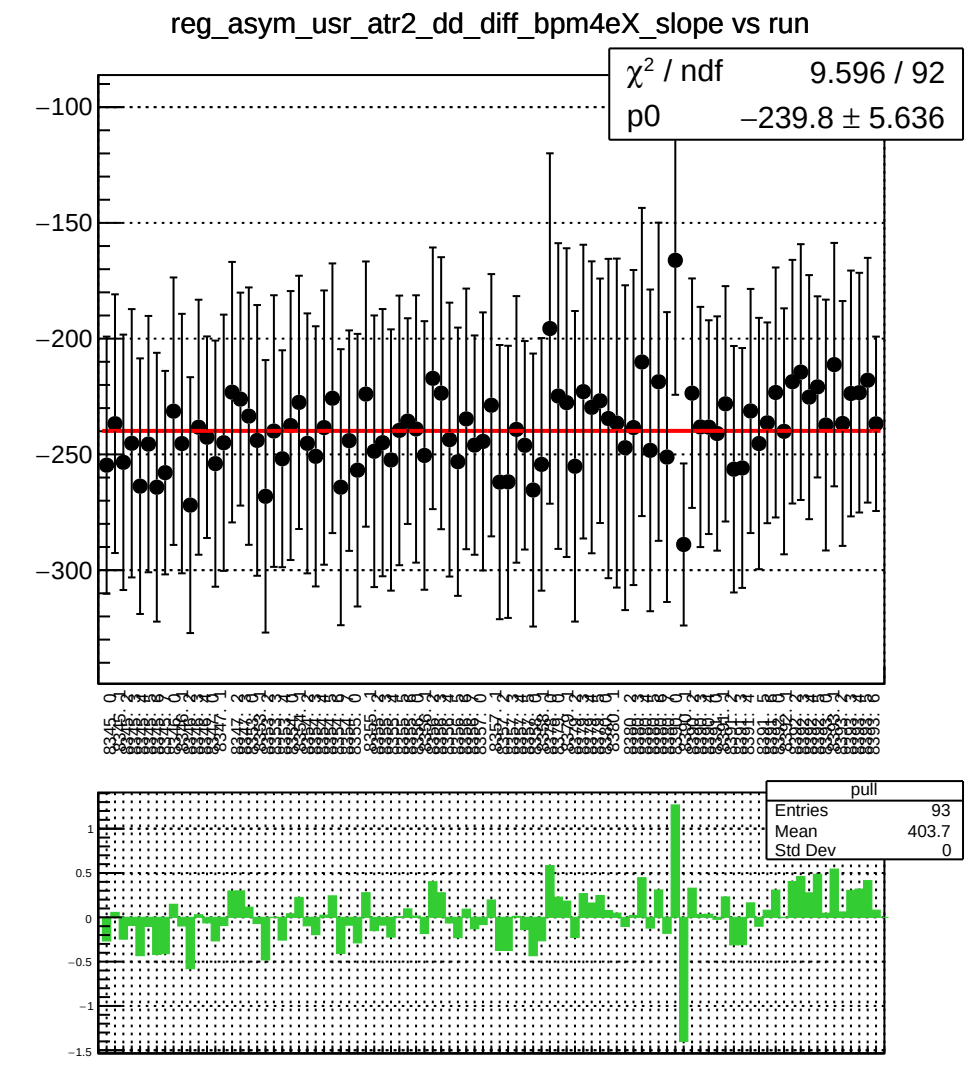

reg_asym_usr_atr2_avg_diff_bpm12X_slope vs run
χ² / ndf 40.79 / 92
p0 −180.5 ± 0.778
pull
Entries 93
Mean −337.8
Std Dev 0

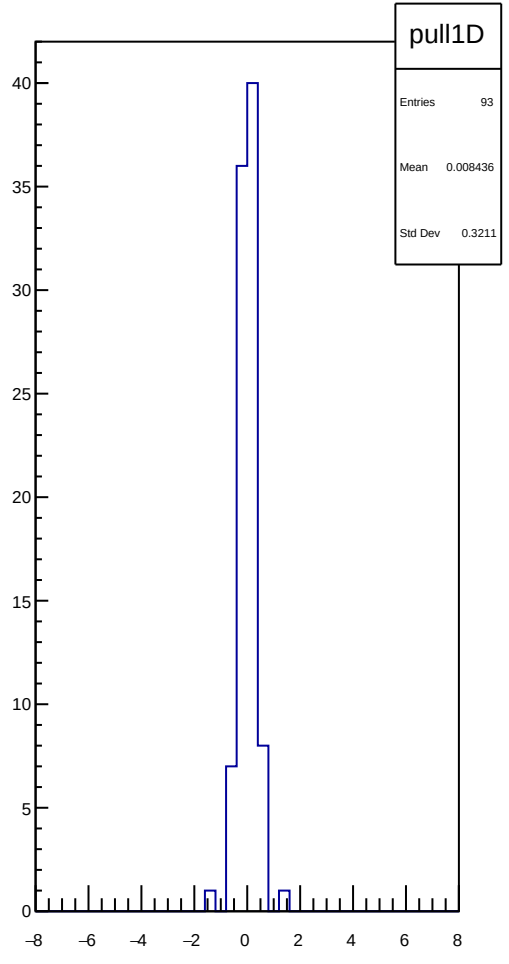

pull1D
Entries 93
Mean −0.03124
Std Dev 0.6615

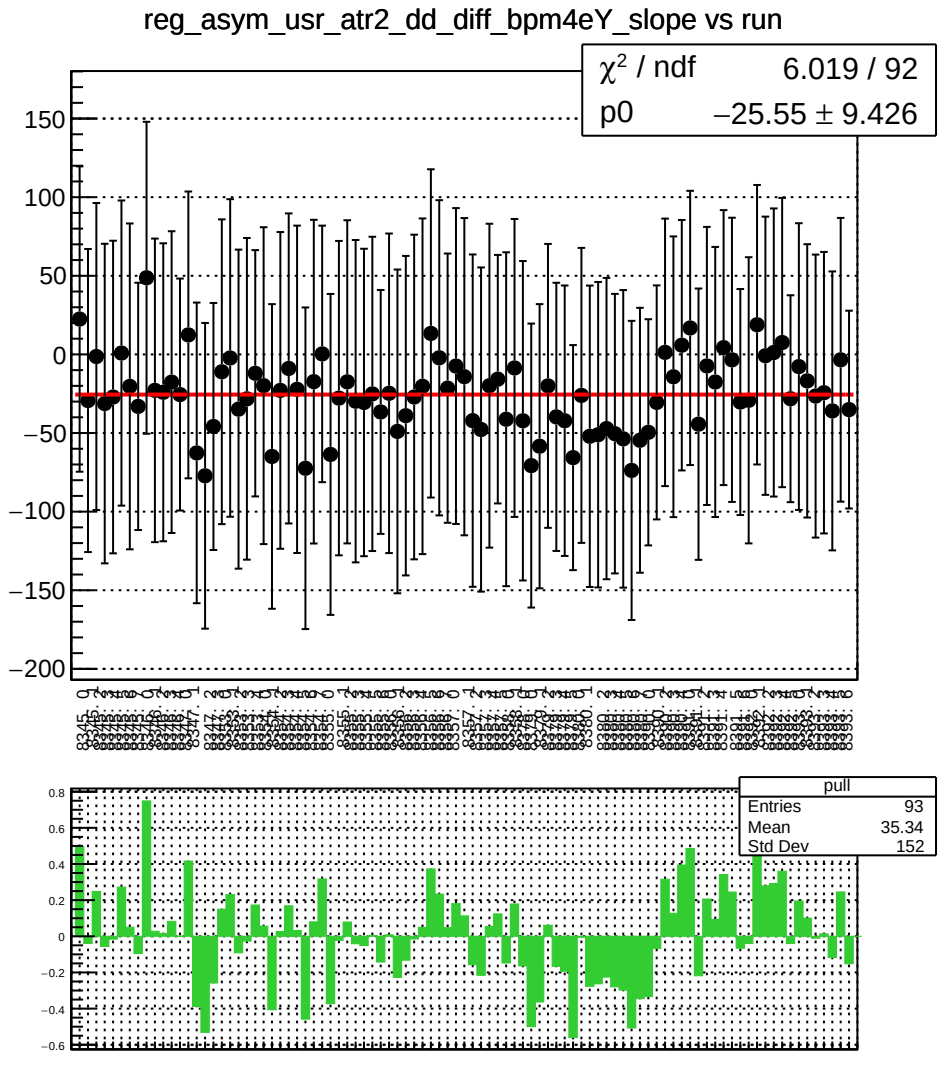

reg_asym_usr_atr2_dd_diff_bpm1X_slope vs run
χ² / ndf 11.51 / 92
p0 243.9 ± 5.138
pull
Entries 93
Mean 163.3
Std Dev 0
pull1D
Entries 93
Mean −0.02884
Std Dev 0.3506

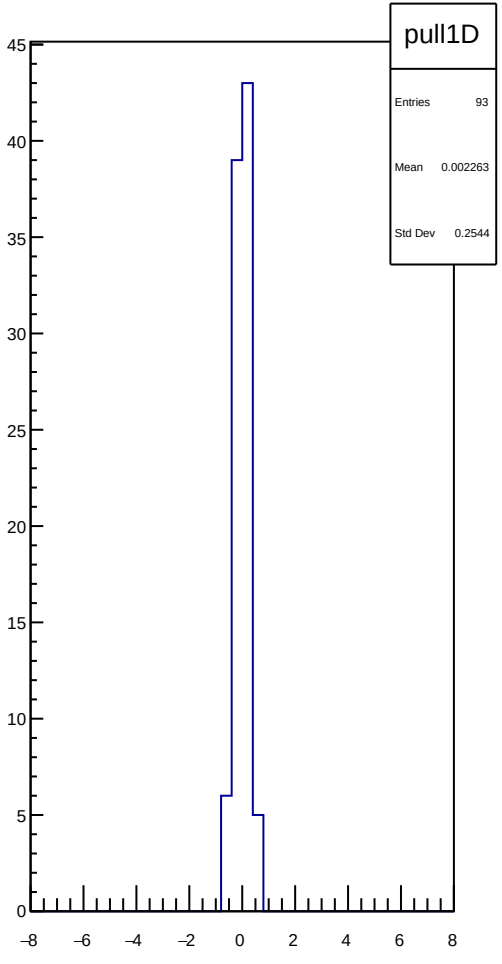

reg_asym_usr_atr2_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.565 / 92
p0 −35.21 ± 8.905
pull
Entries 93
Mean 7.965
Std Dev 72.01

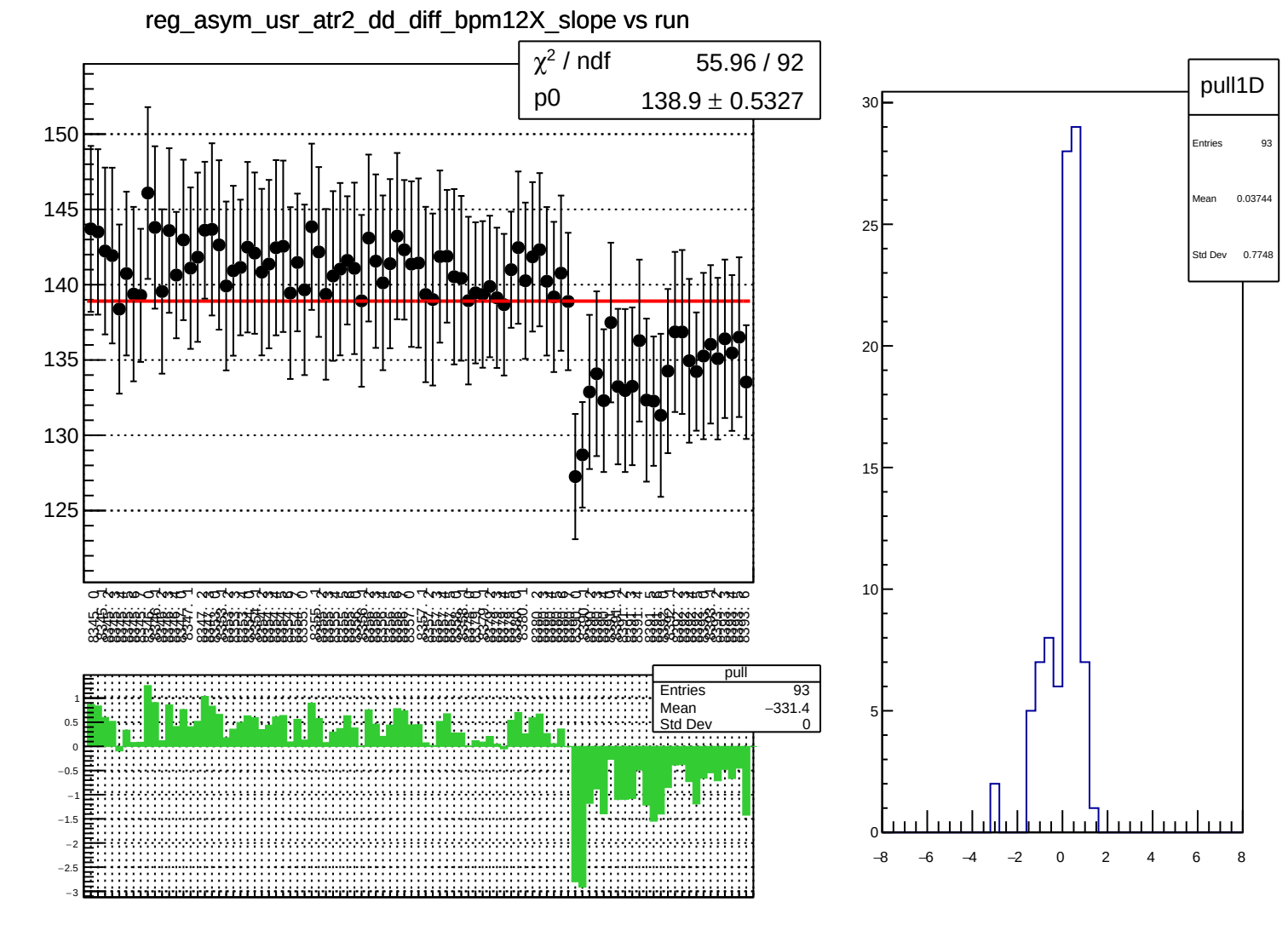

pull1D
Entries 93
Mean −0.009127
Std Dev 0.2655

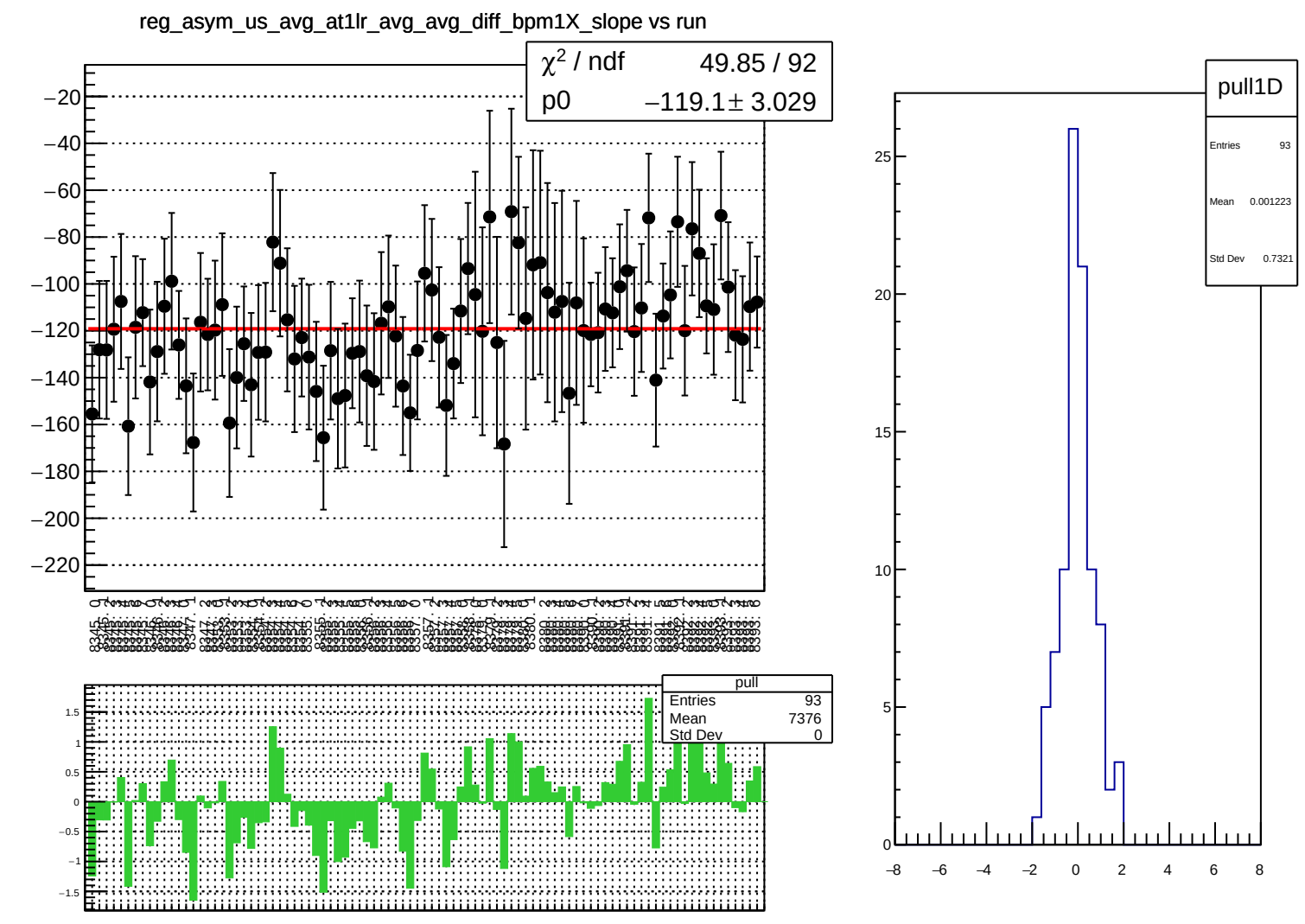

reg_asym_usr_atr2_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.596 / 92
p0 −239.8 ± 5.636
−100
−150
−200
−250
−300
pull
Entries 93
Mean 403.7
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

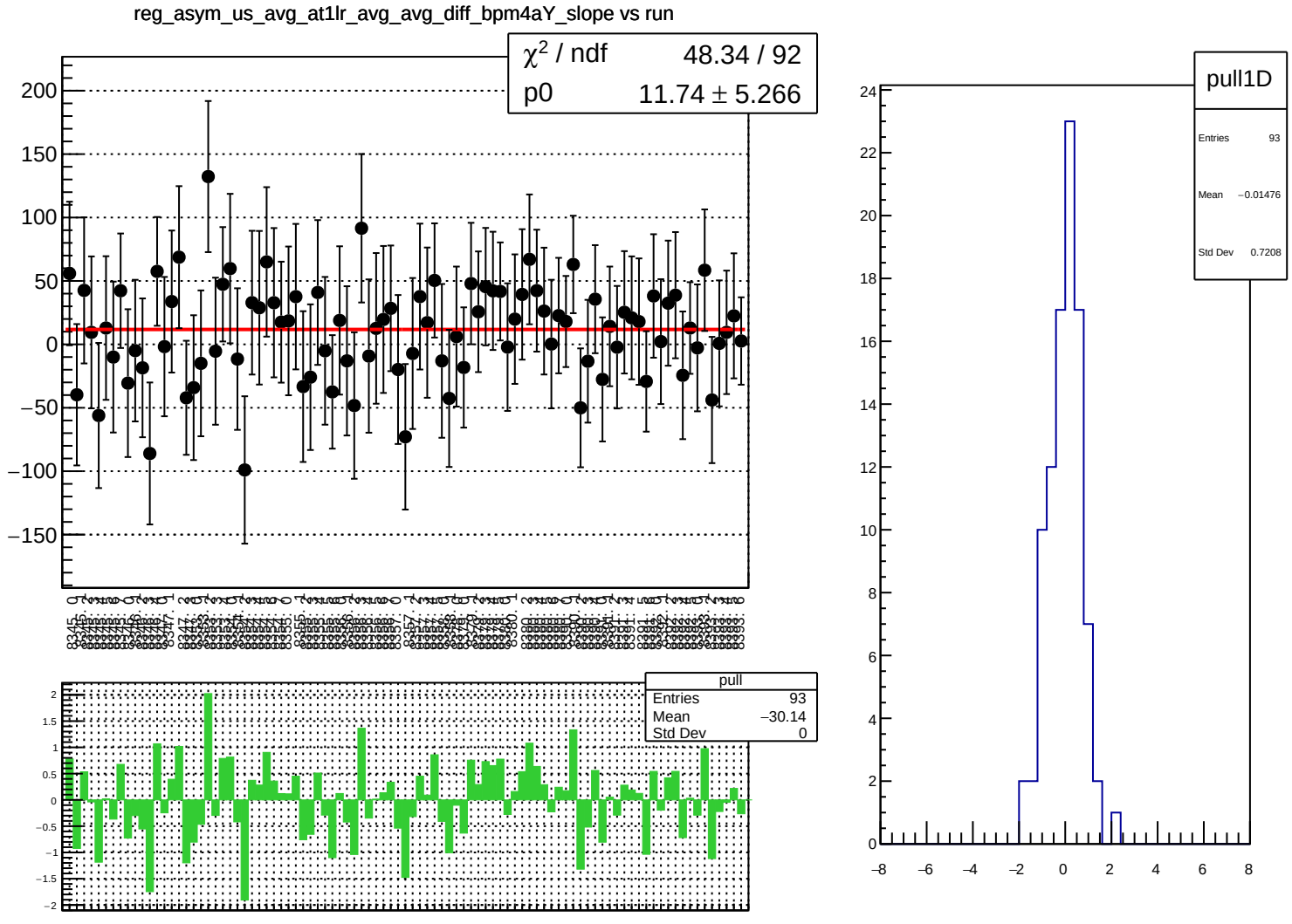

pull1D
Entries 93
Mean 0.008436
Std Dev 0.3211
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

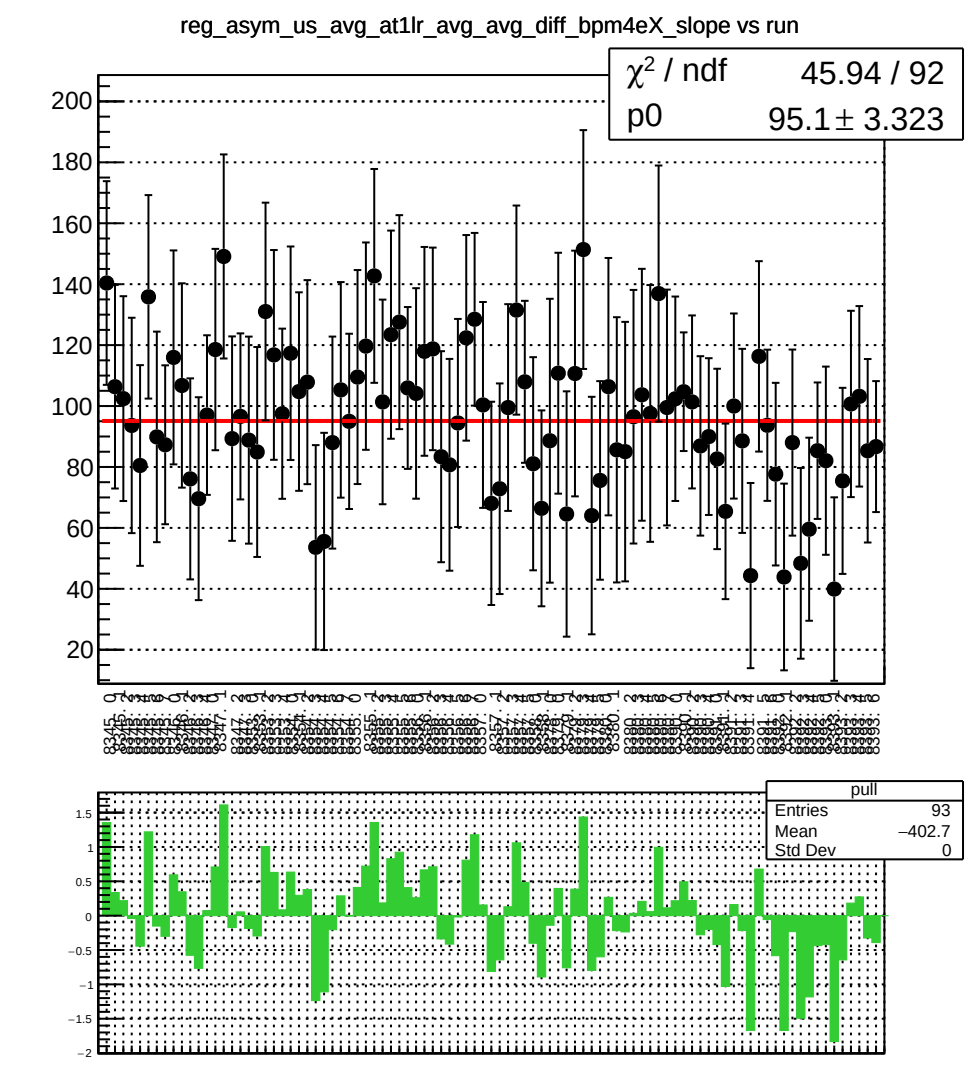

reg_asym_usr_atr2_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.019 / 92
p0 −25.55 ± 9.426
pull
Entries 93
Mean 35.34
Std Dev 152

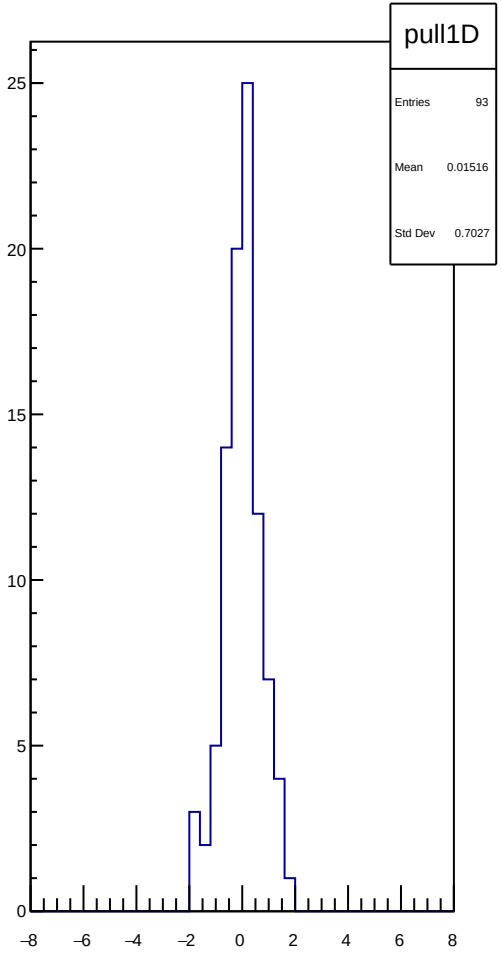

pull1D
Entries 93
Mean 0.002263
Std Dev 0.2544

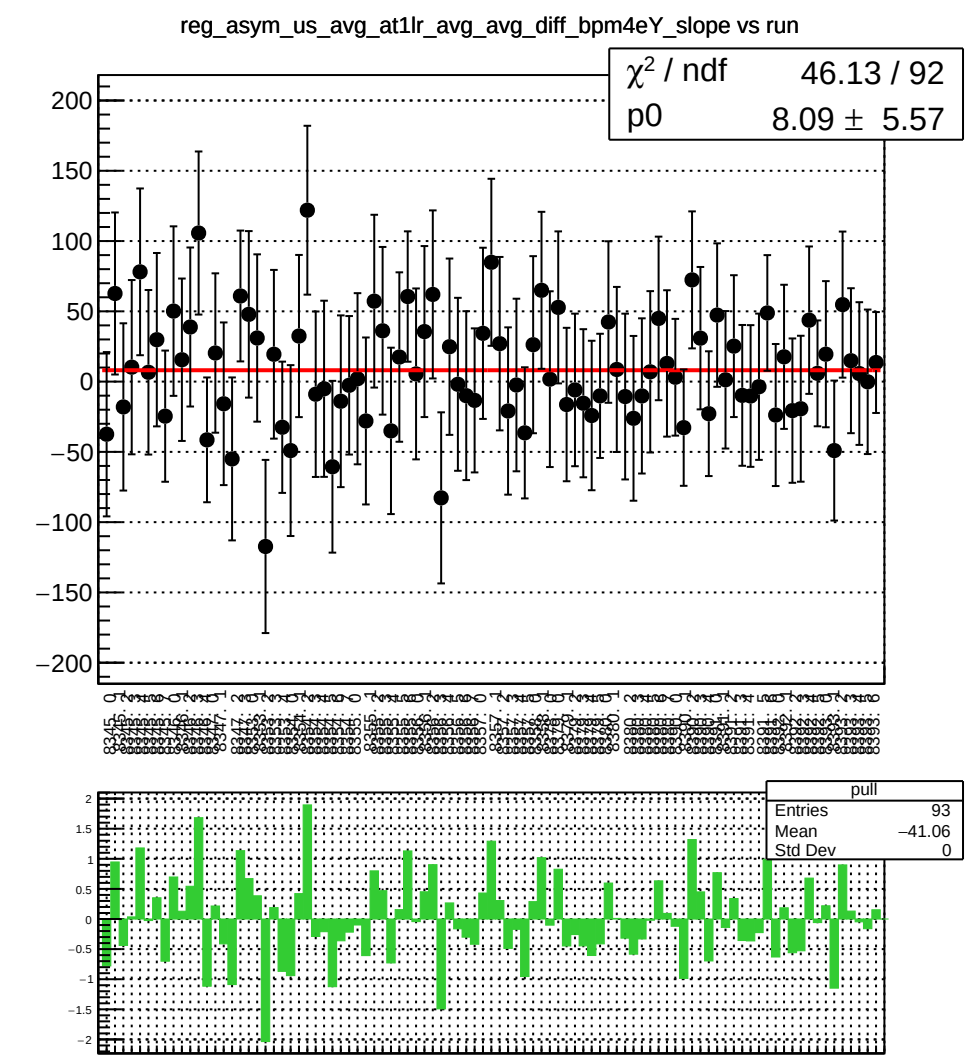

reg_asym_usr_atr2_dd_diff_bpm12X_slope vs run
χ² / ndf 55.96 / 92
p0 138.9 ± 0.5327
150
145
140
135
130
125
pull
Entries 93
Mean −331.4
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 93
Mean 0.03744
Std Dev 0.7748
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

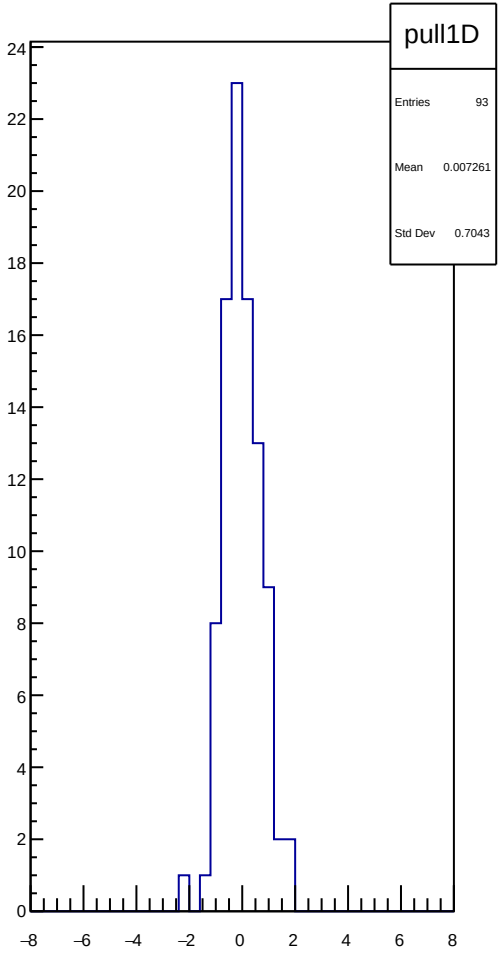

reg_asym_us_avg_at1lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 49.85 / 92
p0 −119.1± 3.029
pull
Entries 93
Mean 7376
Std Dev 0
pull1D
Entries 93
Mean 0.001223
Std Dev 0.7321

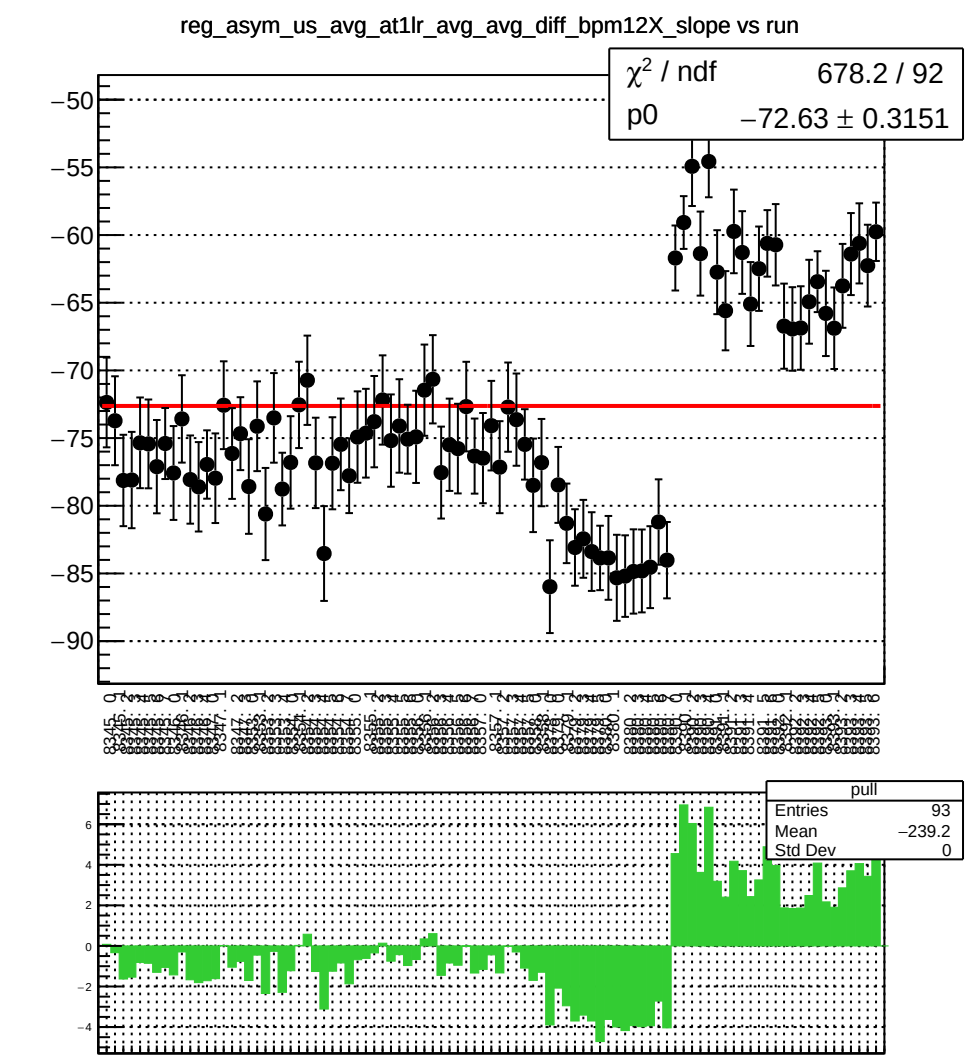

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 48.34 / 92
p0 11.74 ± 5.266
pull
Entries 93
Mean −30.14
Std Dev 0
pull1D
Entries 93
Mean −0.01476
Std Dev 0.7208

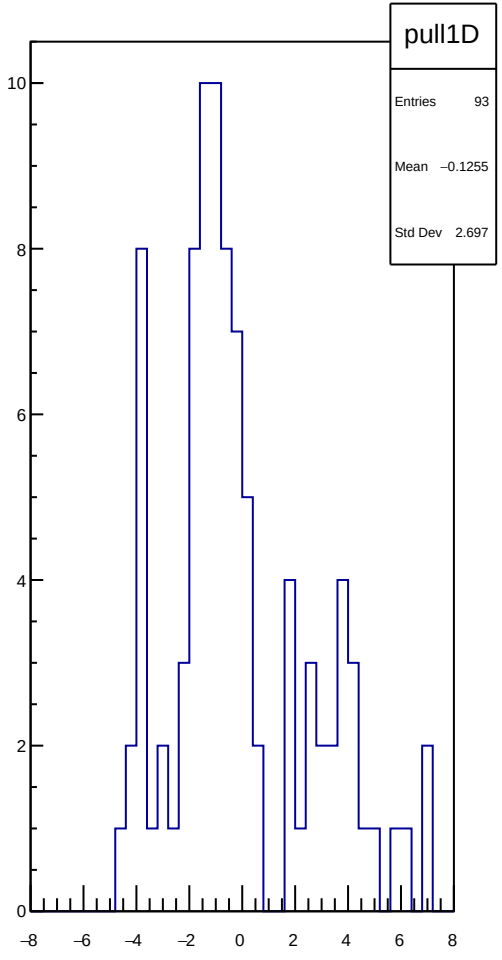

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 45.94 / 92
p0 95.1 ± 3.323
pull
Entries 93
Mean −402.7
Std Dev 0

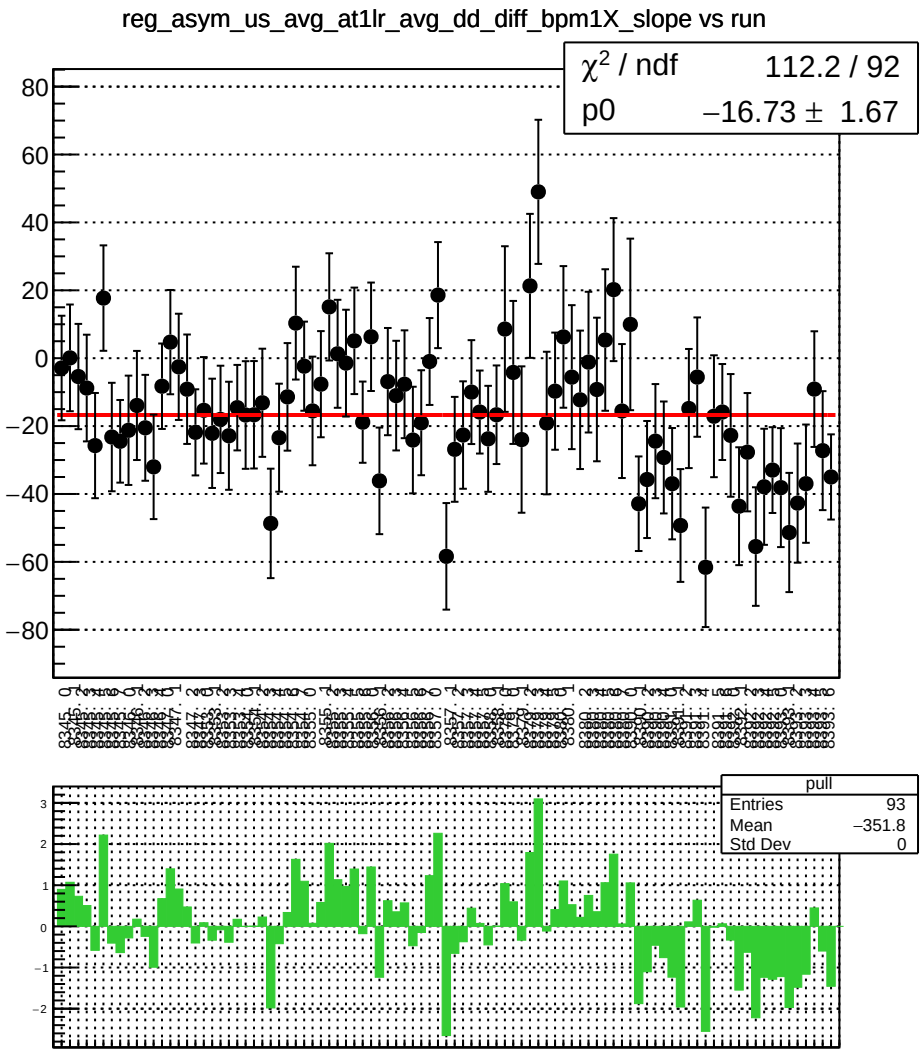

pull1D
Entries 93
Mean 0.01516
Std Dev 0.7027

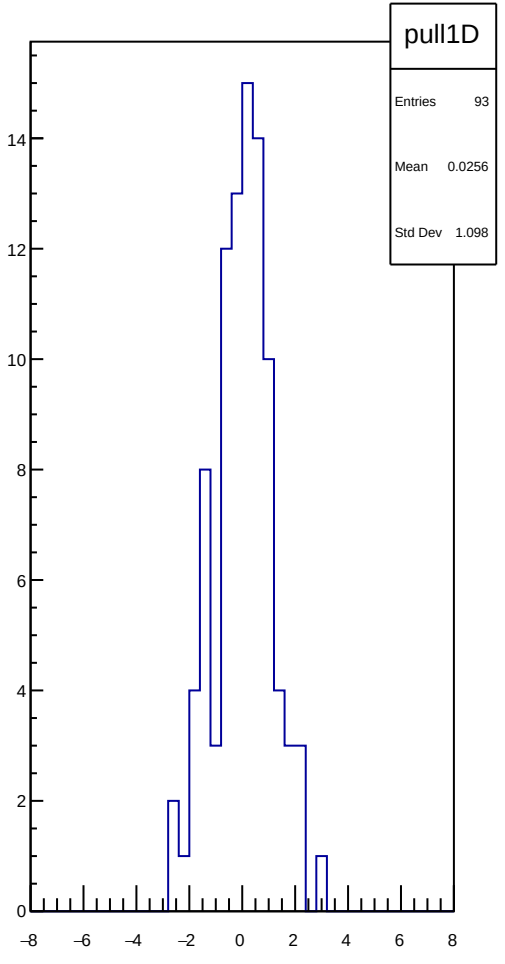

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 46.13 / 92
p0 8.09 ± 5.57
pull
Entries 93
Mean −41.06
Std Dev 0

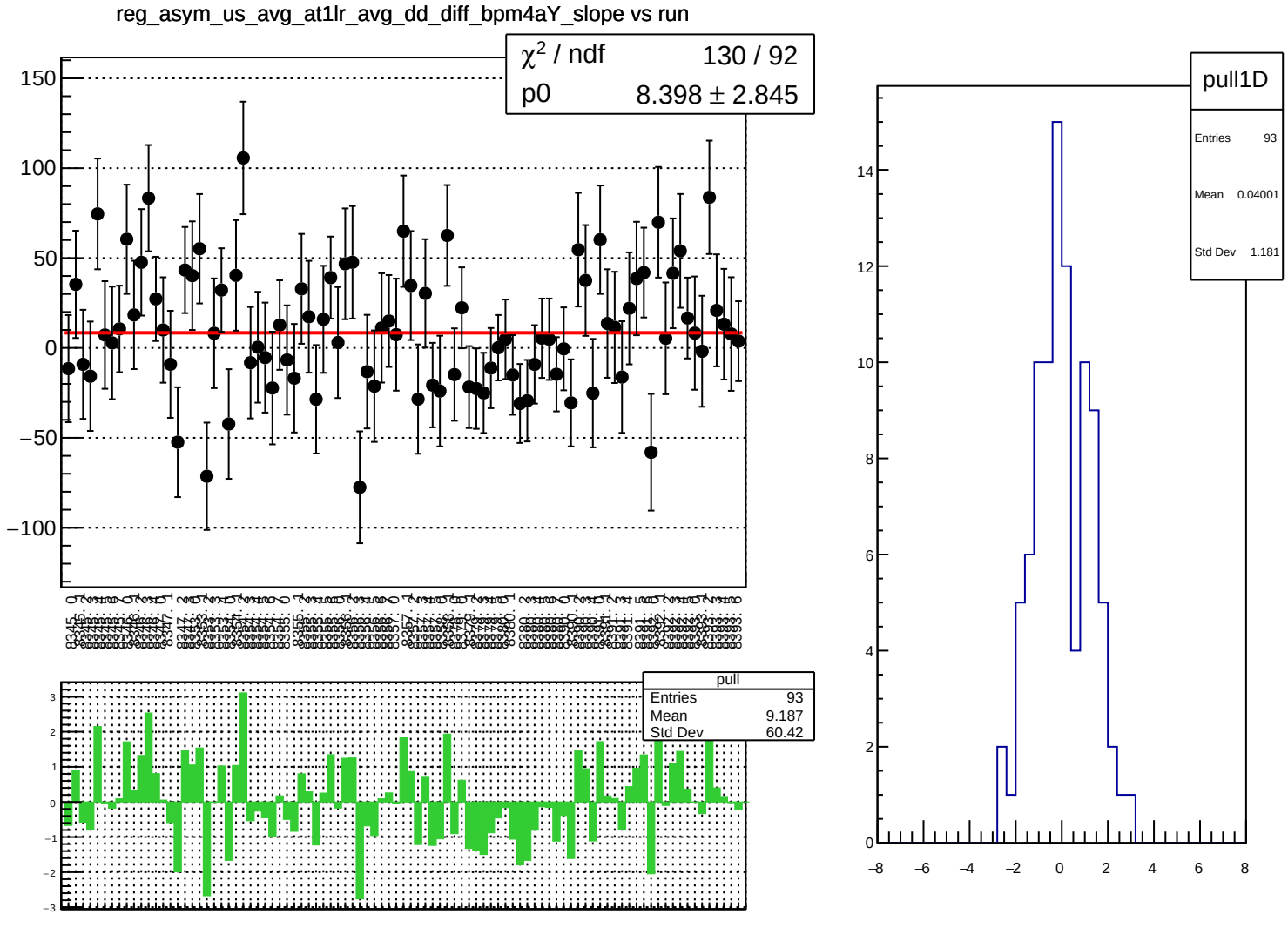

pull1D
Entries 93
Mean 0.007261
Std Dev 0.7043

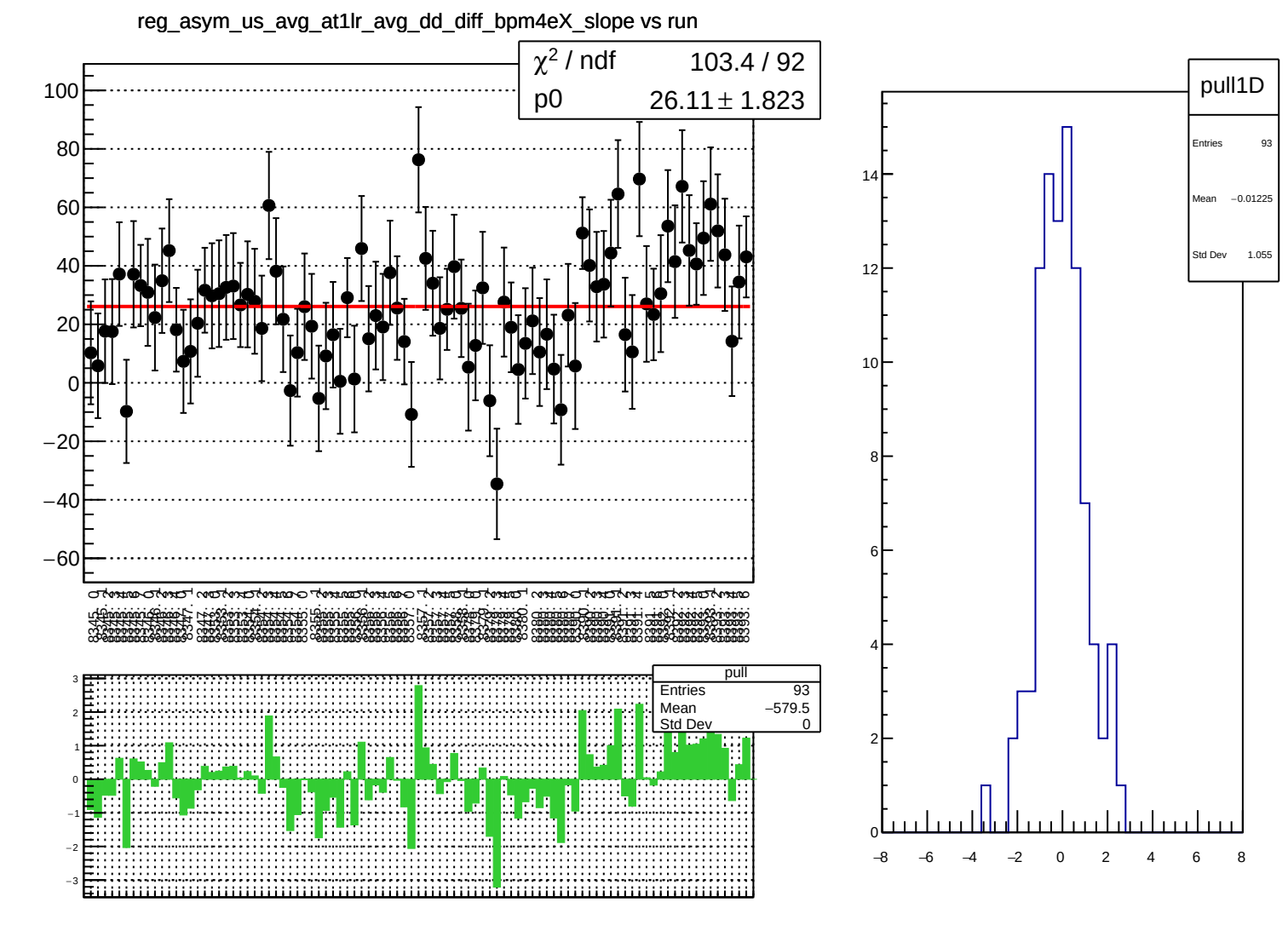

reg_asym_us_avg_at1lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 678.2 / 92
p0 −72.63 ± 0.3151
pull
Entries 93
Mean −239.2
Std Dev 0

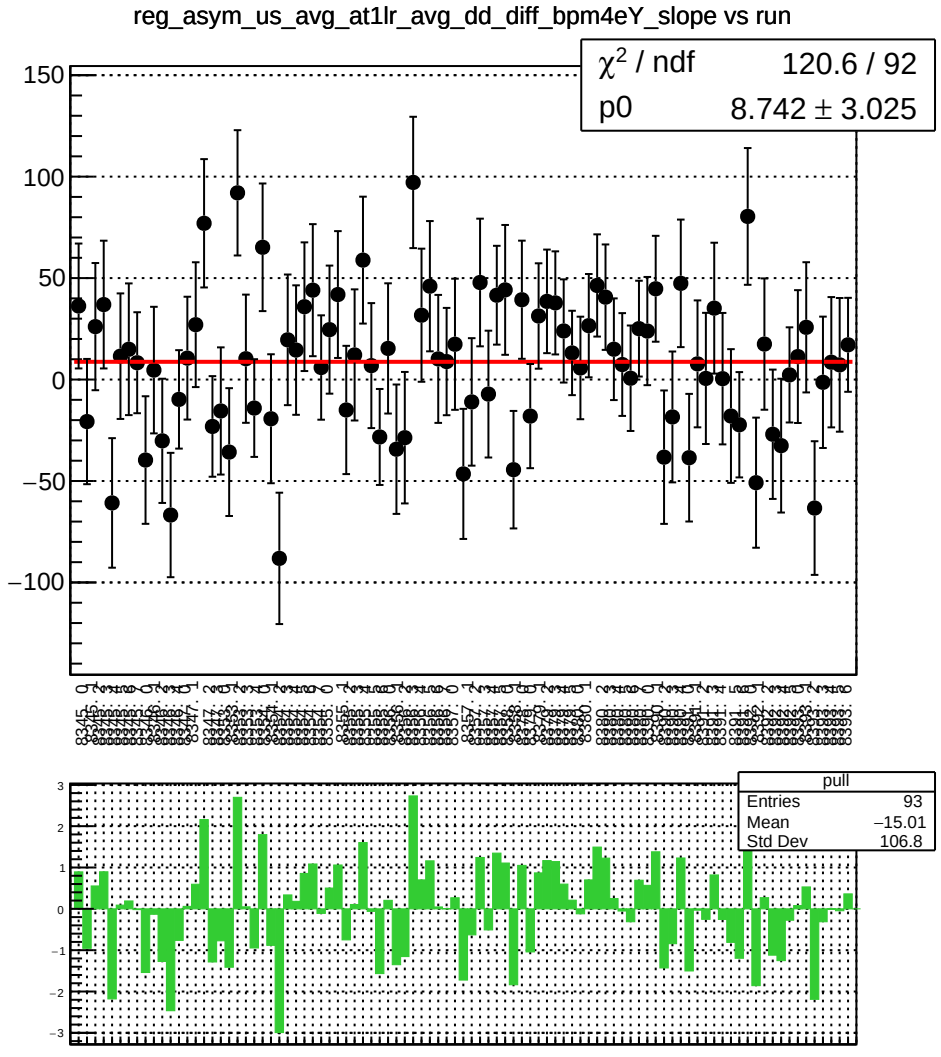

pull1D
Entries 93
Mean −0.1255
Std Dev 2.697

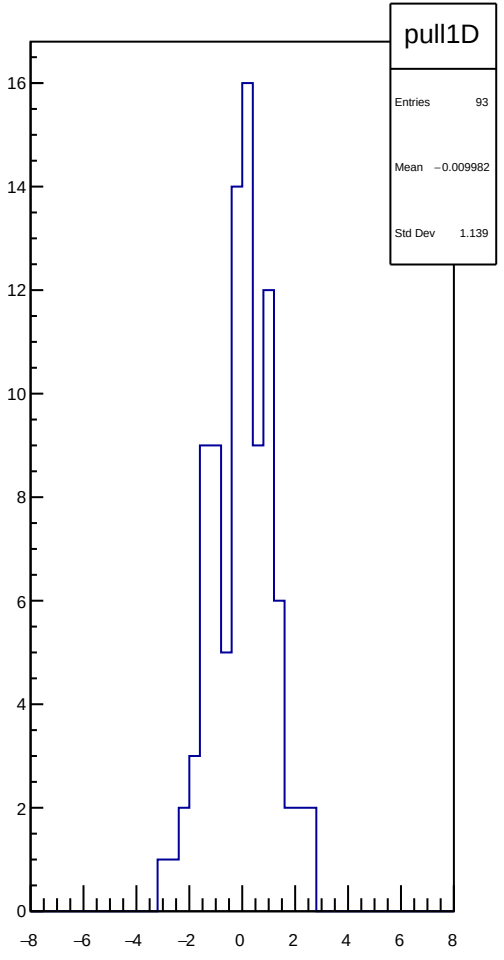

reg_asym_us_avg_at1lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 112.2 / 92
p0 −16.73 ± 1.67
pull
Entries 93
Mean −351.8
Std Dev 0

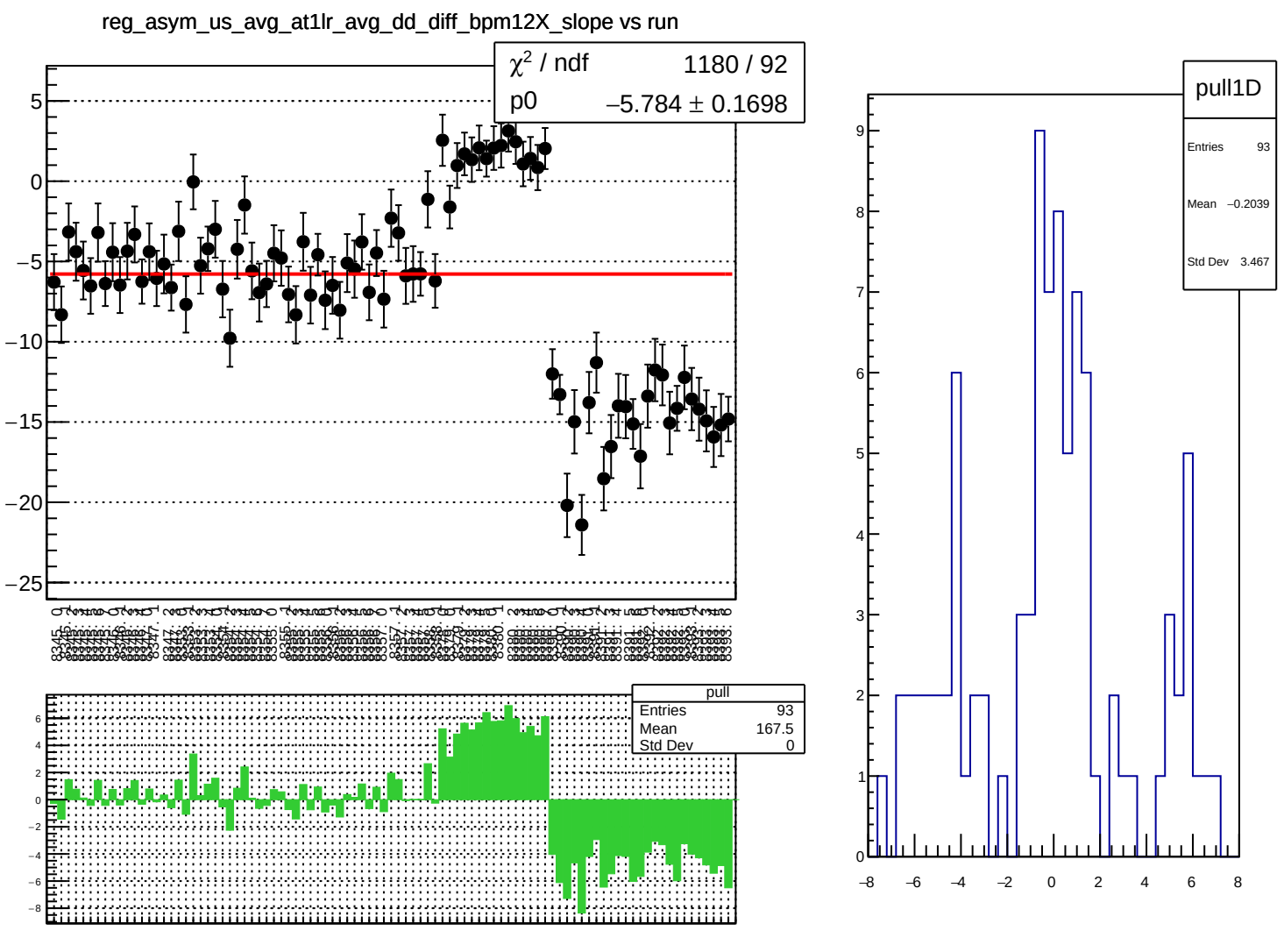

pull1D
Entries 93
Mean 0.0256
Std Dev 1.098

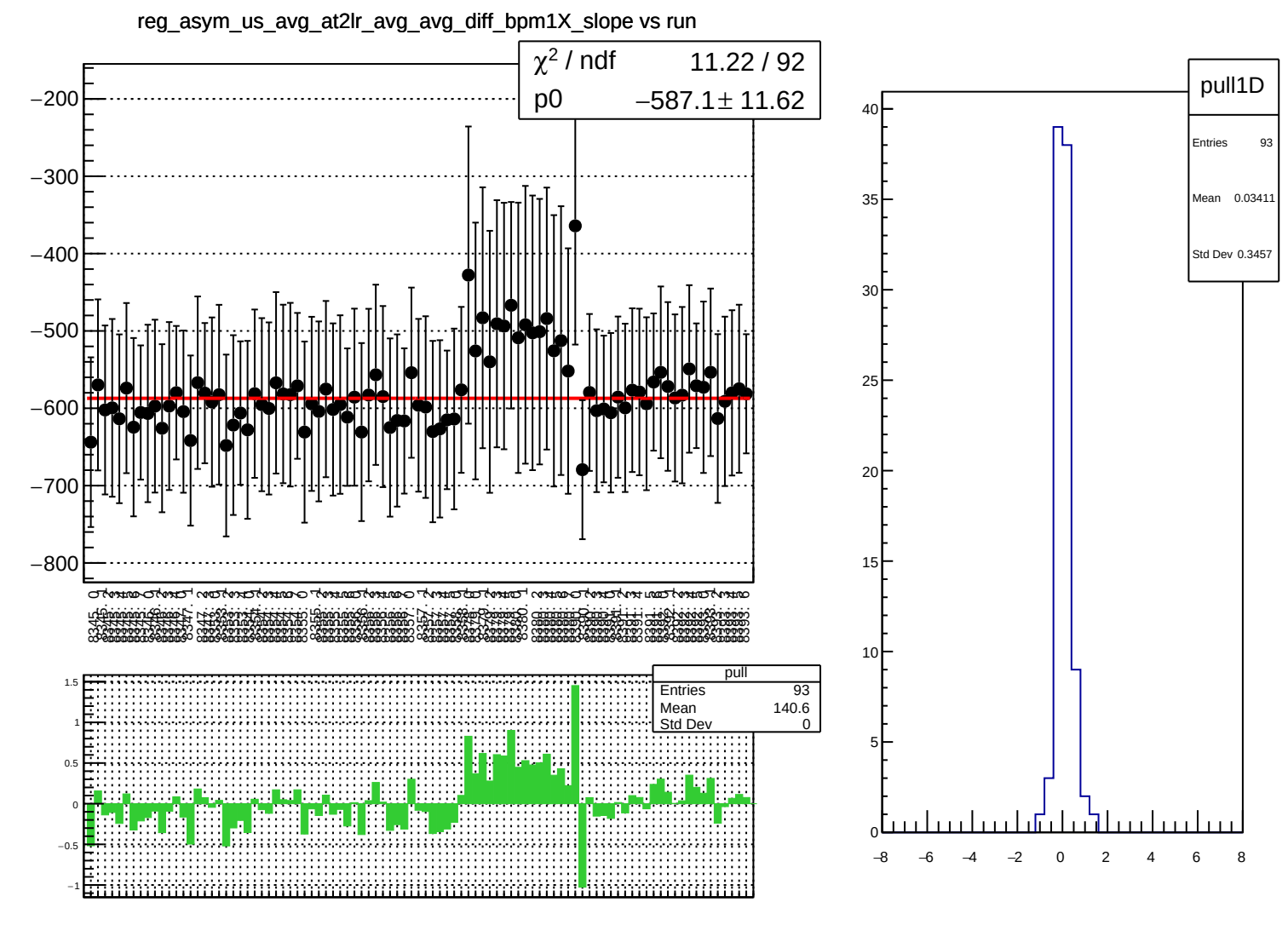

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 130 / 92
p0 8.398 ± 2.845
150
100
50
0
−50
−100
pull
Entries 93
Mean 9.187
Std Dev 60.42
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.04001
Std Dev 1.181
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

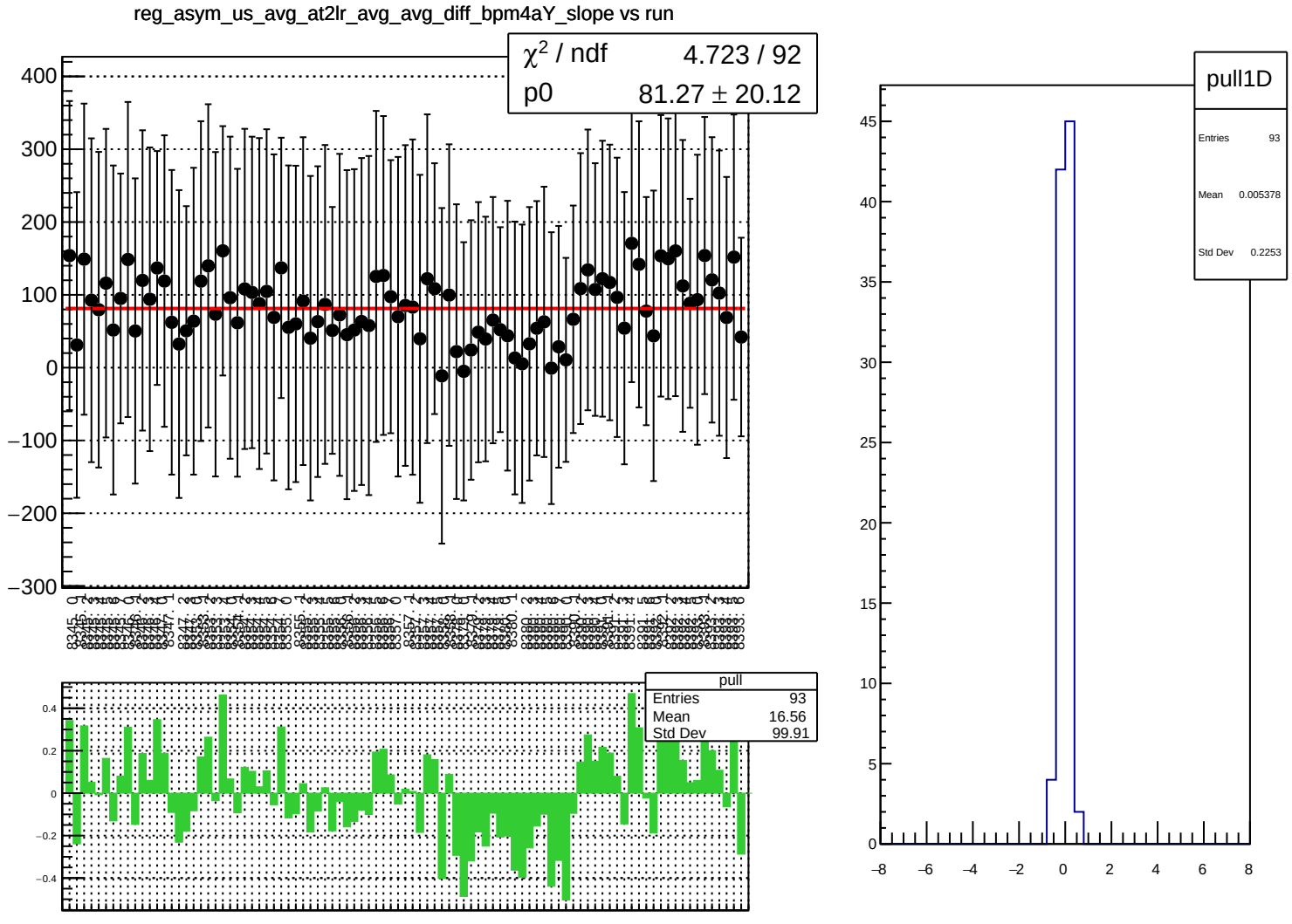

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 103.4 / 92
p0 26.11 ± 1.823
pull
Entries 93
Mean −579.5
Std Dev 0
pull1D
Entries 93
Mean −0.01225
Std Dev 1.055

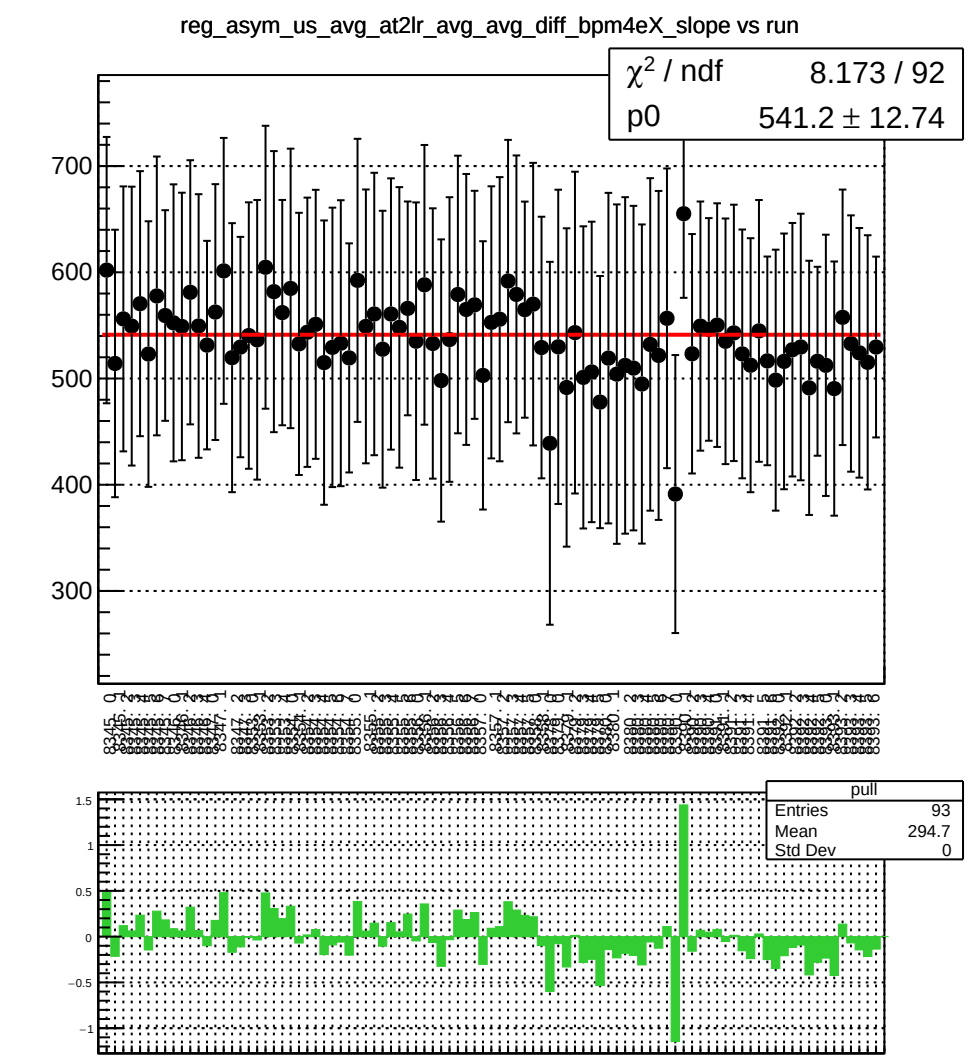

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eY_slope vs run
χ^2 / ndf 120.6 / 92
p0 8.742 ± 3.025
150
100
50
0
−50
−100
pull
Entries 93
Mean −15.01
Std Dev 106.8
3
2
1
0
−1
−2
−3

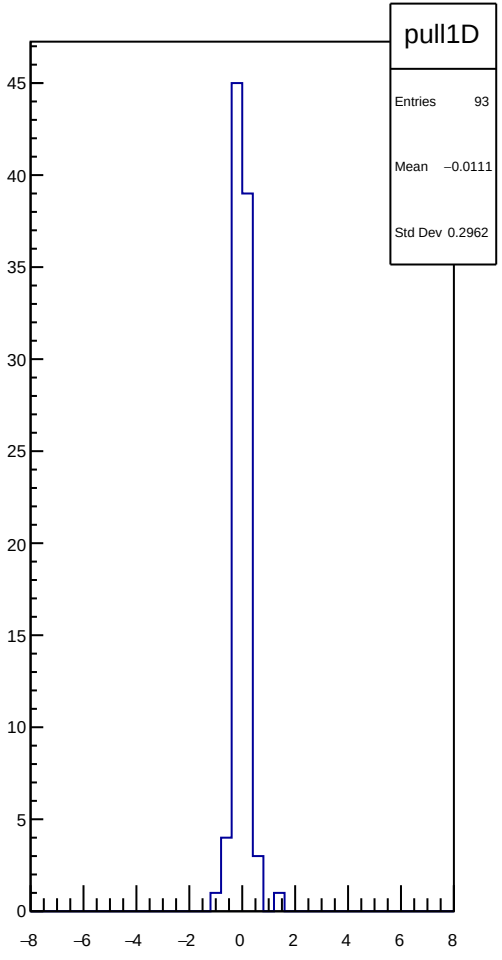

pull1D
Entries 93
Mean −0.009982
Std Dev 1.139
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

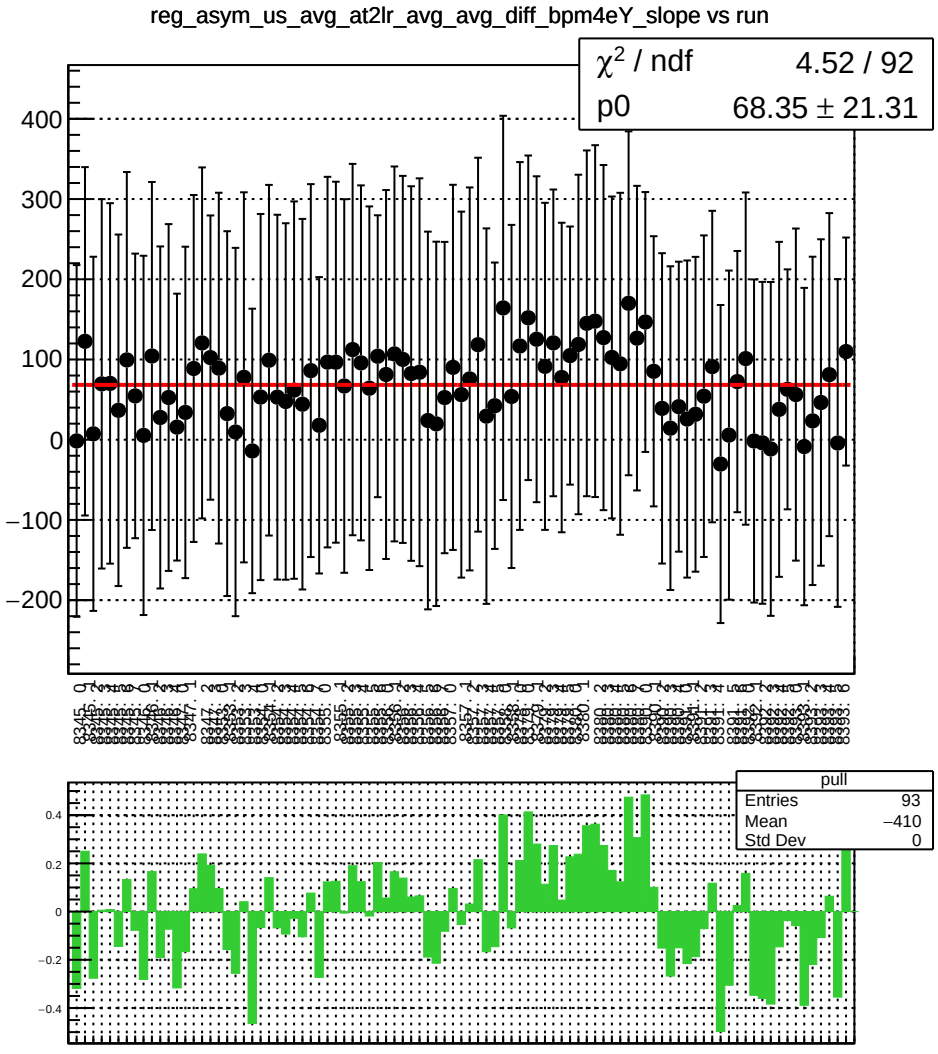

reg_asym_us_avg_at1lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 1180 / 92
p0 −5.784 ± 0.1698
pull
Entries 93
Mean 167.5
Std Dev 0
pull1D
Entries 93
Mean −0.2039
Std Dev 3.467

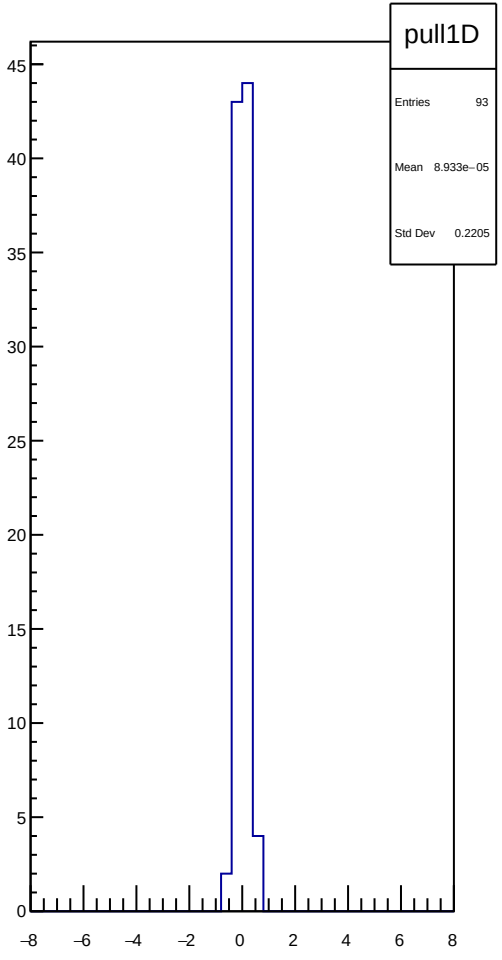

reg_asym_us_avg_at2lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 11.22 / 92
p0 −587.1± 11.62
pull
Entries 93
Mean 140.6
Std Dev 0
pull1D
Entries 93
Mean 0.03411
Std Dev 0.3457

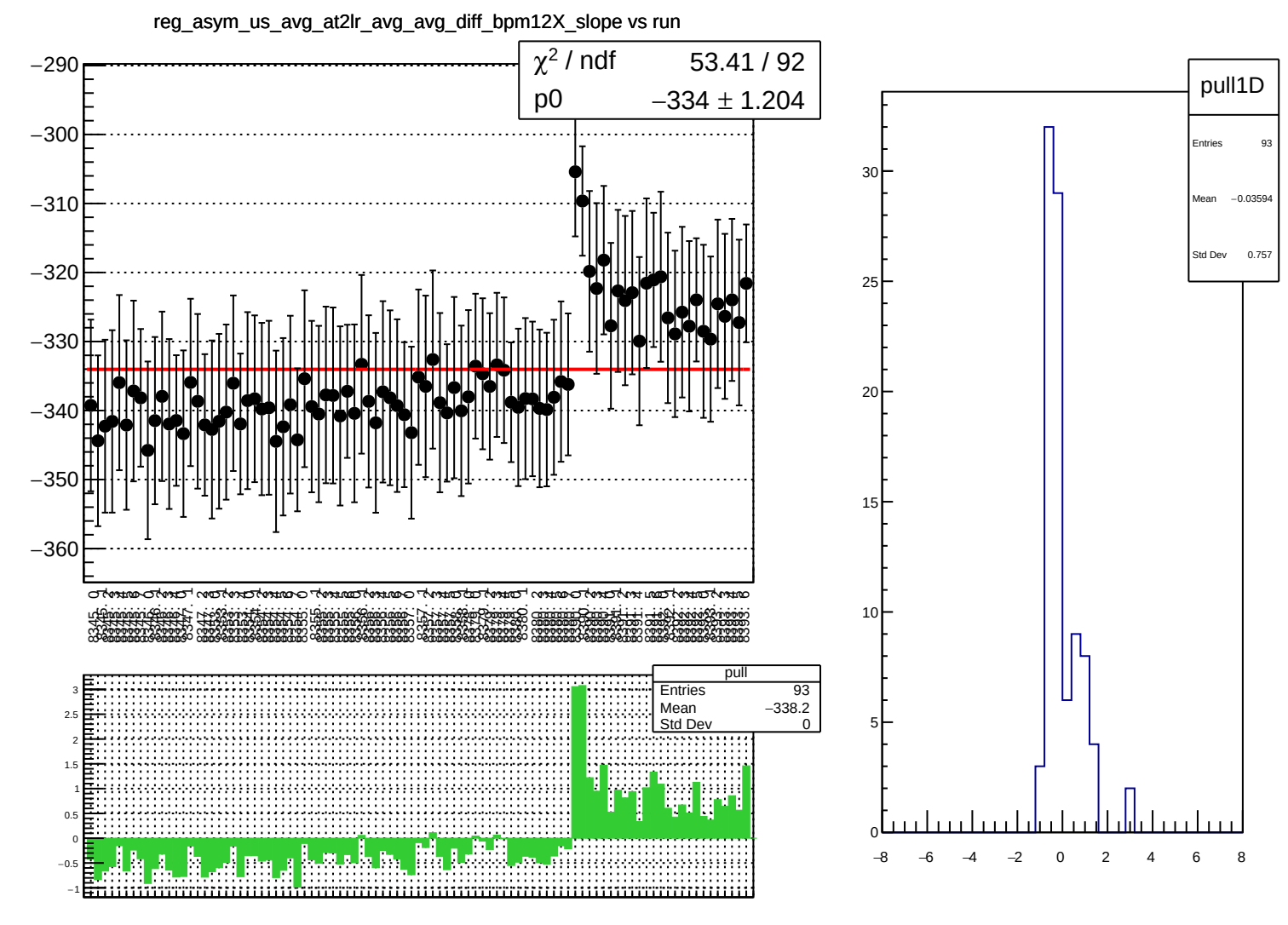

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.723 / 92
p0 81.27 ± 20.12
pull
Entries 93
Mean 16.56
Std Dev 99.91
pull1D
Entries 93
Mean 0.005378
Std Dev 0.2253

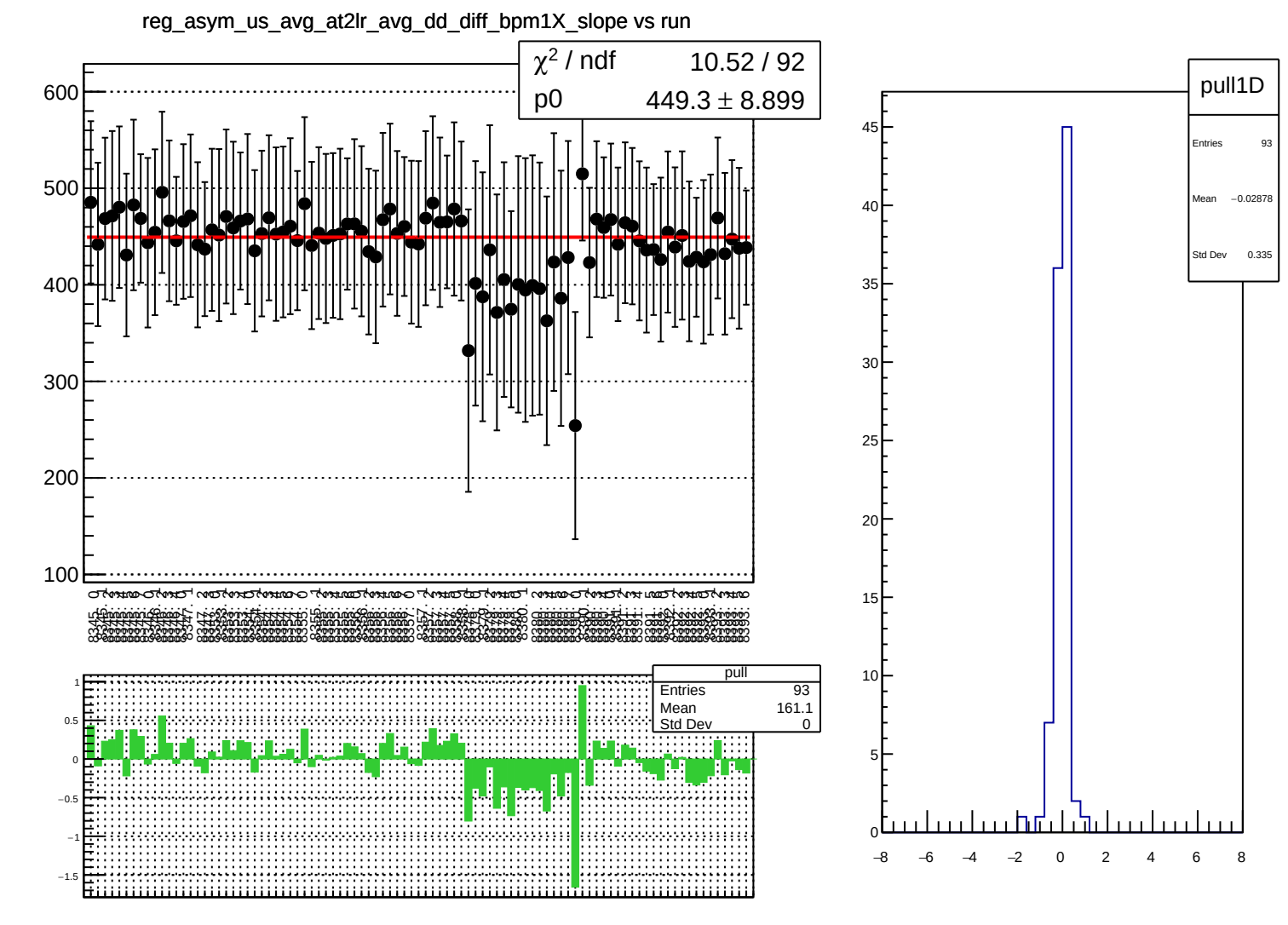

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.173 / 92
p0 541.2 ± 12.74
700
600
500
400
300
pull
Entries 93
Mean 294.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1

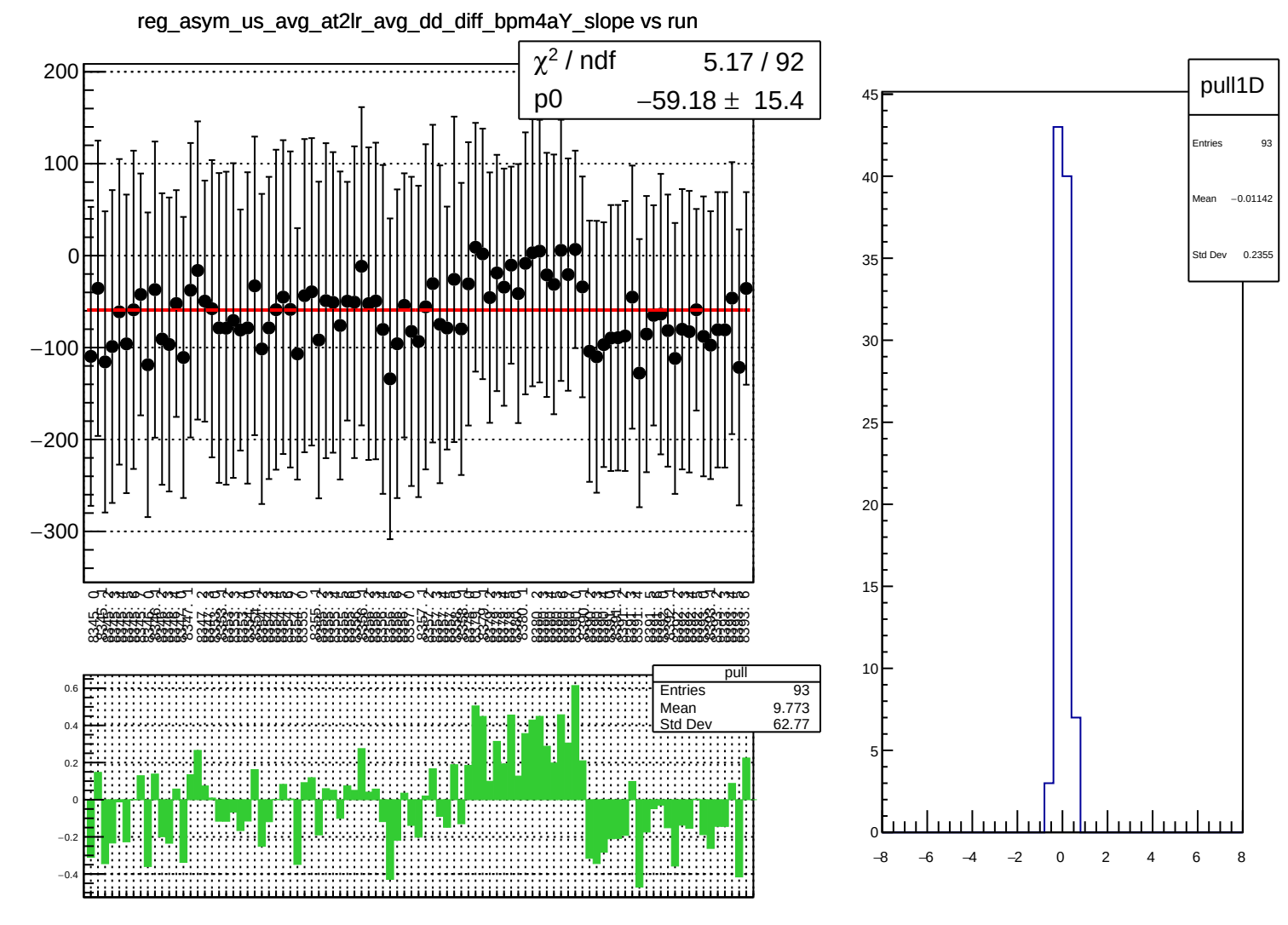

pull1D
Entries 93
Mean −0.0111
Std Dev 0.2962
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

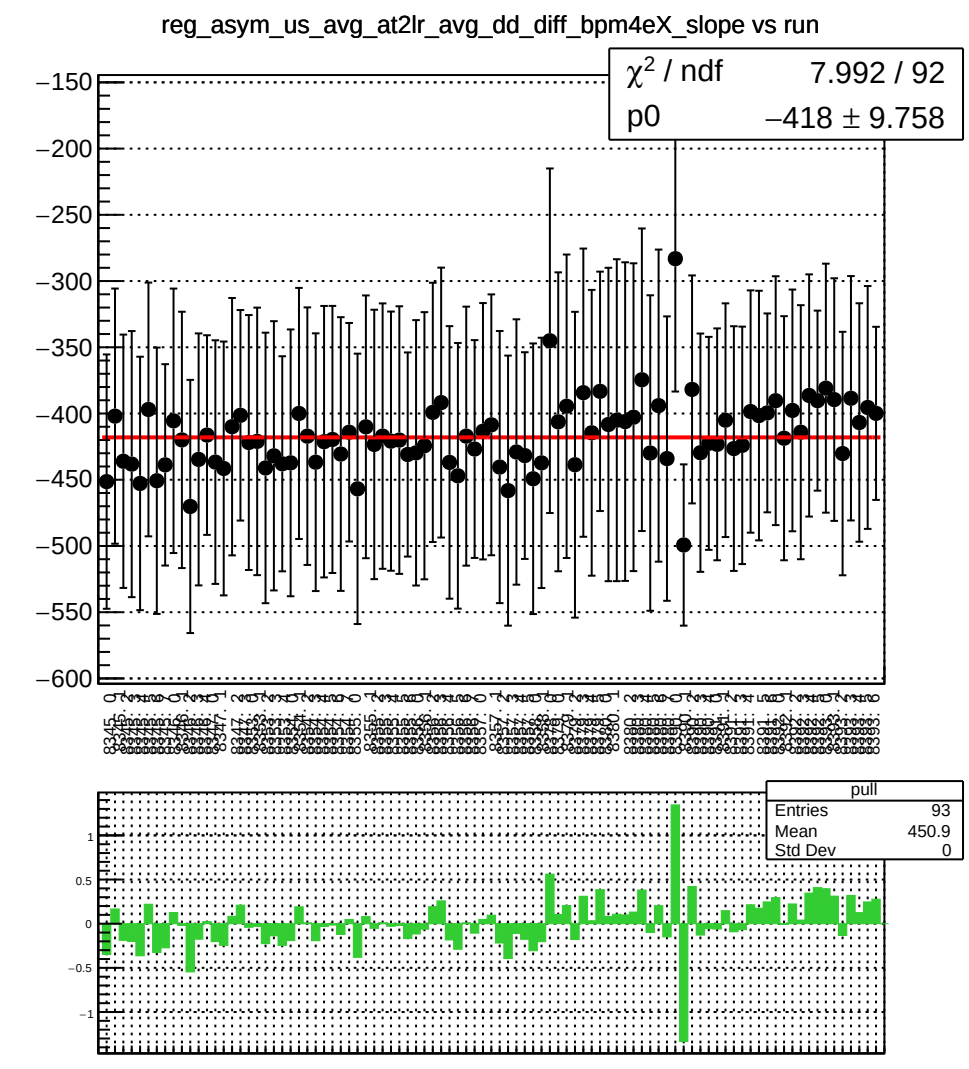

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.52 / 92
p0 68.35 ± 21.31
400
300
200
100
0
−100
−200
pull
Entries 93
Mean −410
Std Dev 0
0.4
0.2
0
−0.2
−0.4

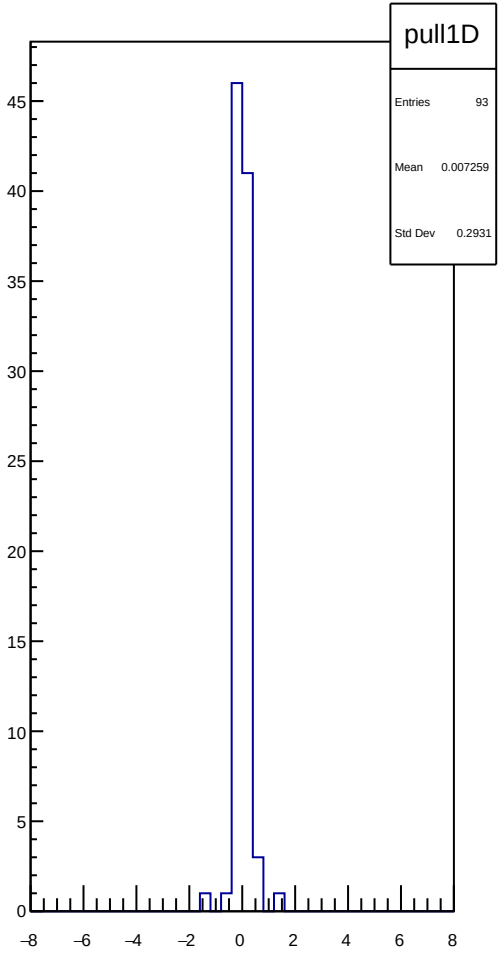

pull1D
Entries 93
Mean 8.933e−05
Std Dev 0.2205
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

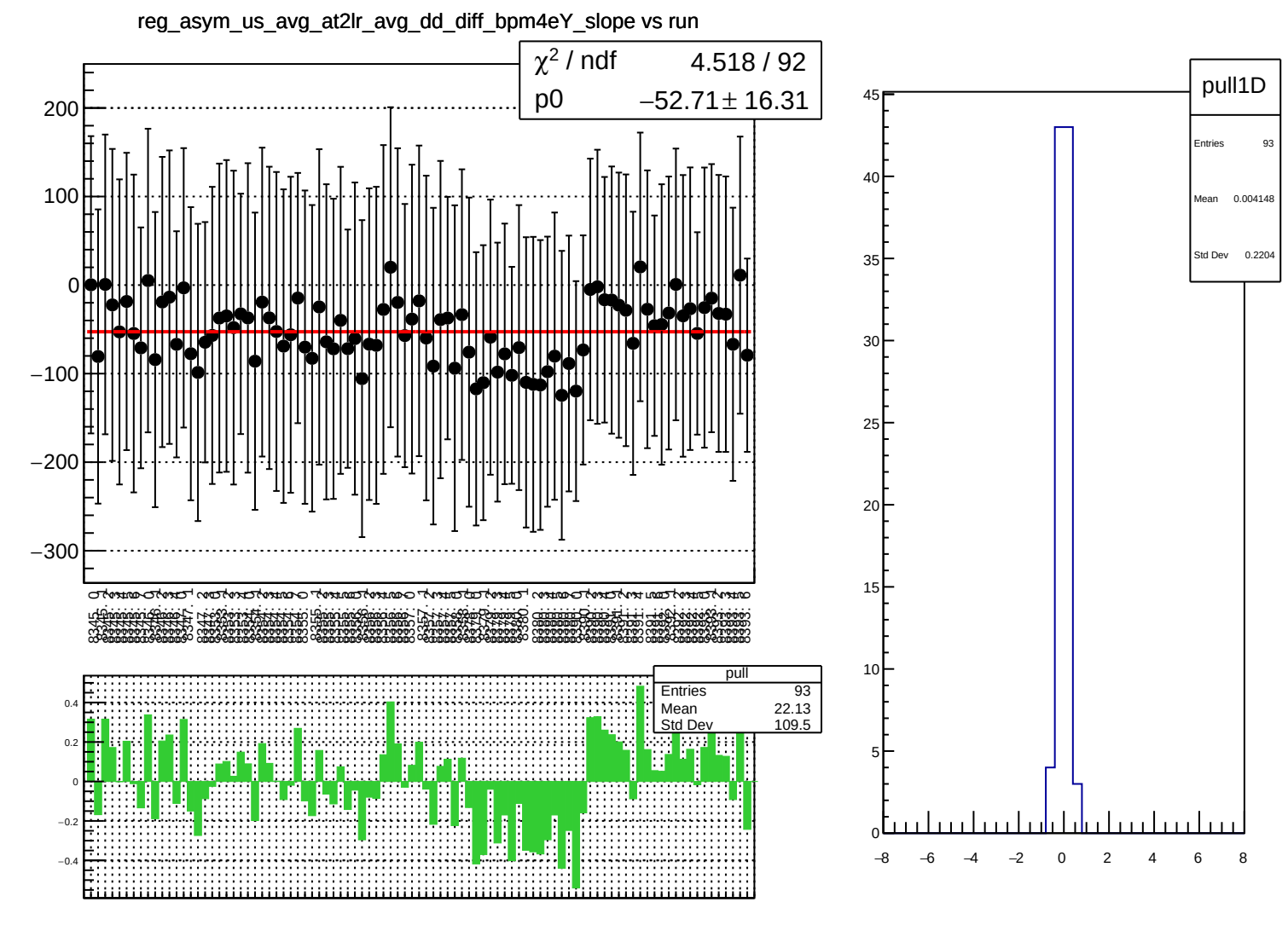

reg_asym_us_avg_at2lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 53.41 / 92
p0 −334 ± 1.204
pull
Entries 93
Mean −338.2
Std Dev 0
pull1D
Entries 93
Mean −0.03594
Std Dev 0.757

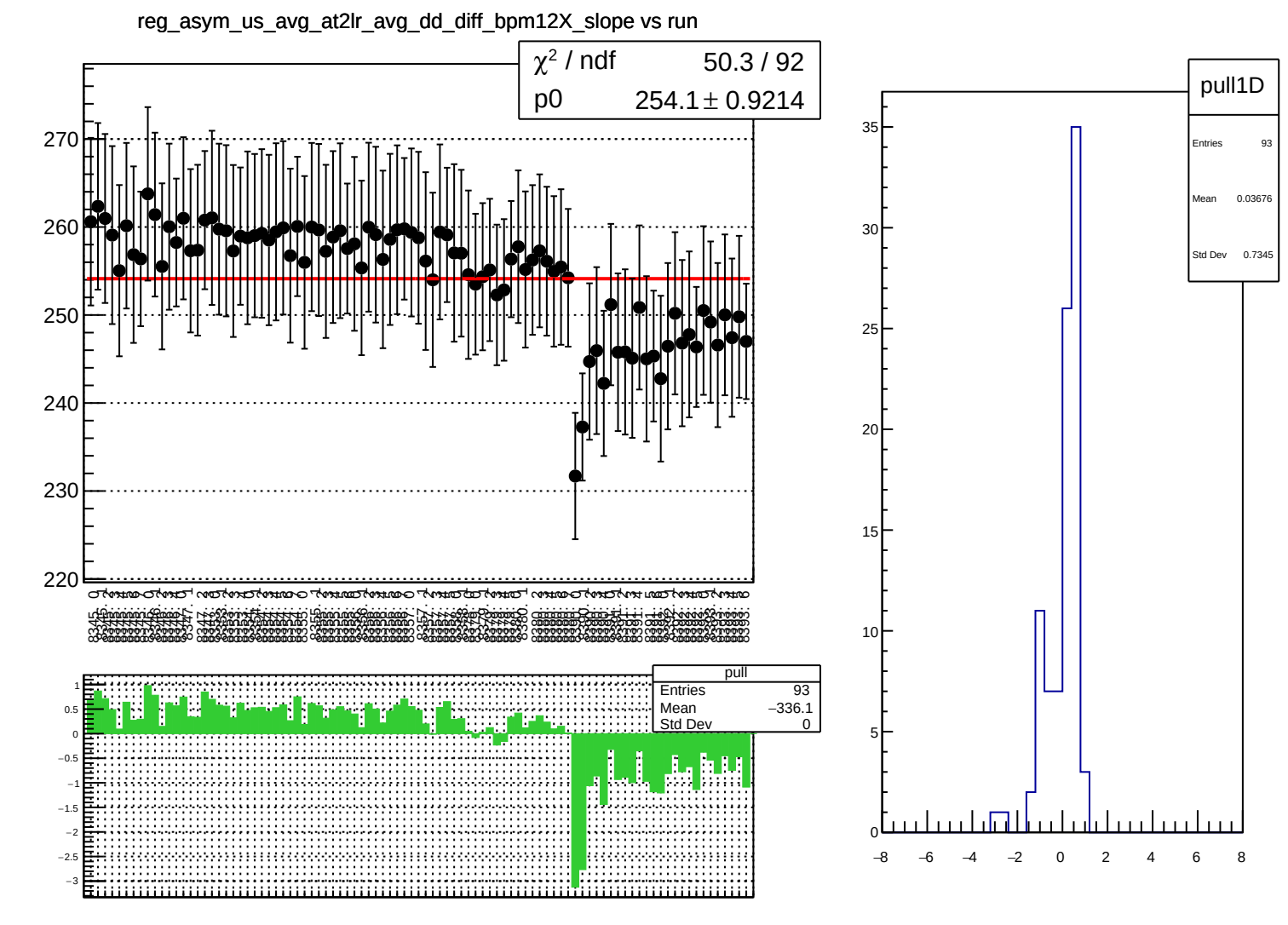

reg_asym_us_avg_at2lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 10.52 / 92
p0 449.3 ± 8.899
pull
Entries 93
Mean 161.1
Std Dev 0
pull1D
Entries 93
Mean −0.02878
Std Dev 0.335

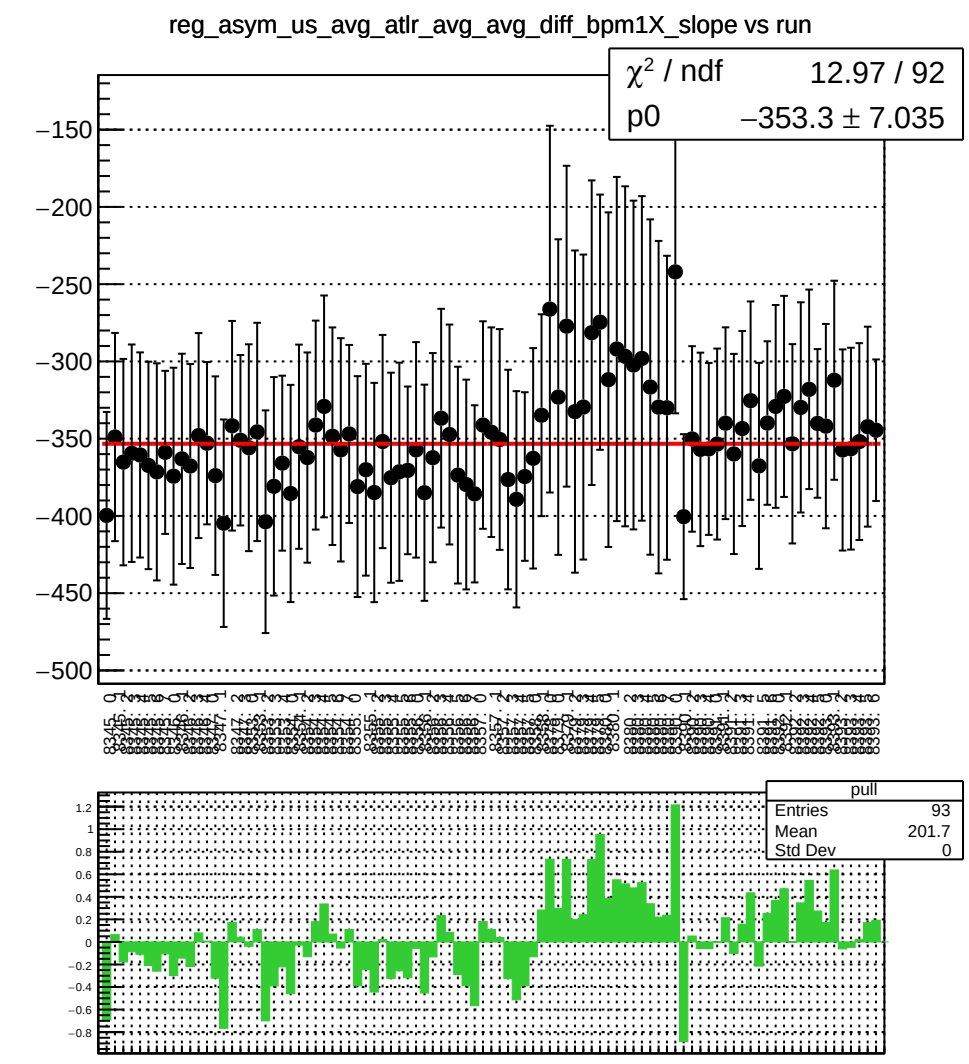

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.17 / 92
p0 −59.18 ± 15.4
pull
Entries 93
Mean 9.773
Std Dev 62.77
pull1D
Entries 93
Mean −0.01142
Std Dev 0.2355

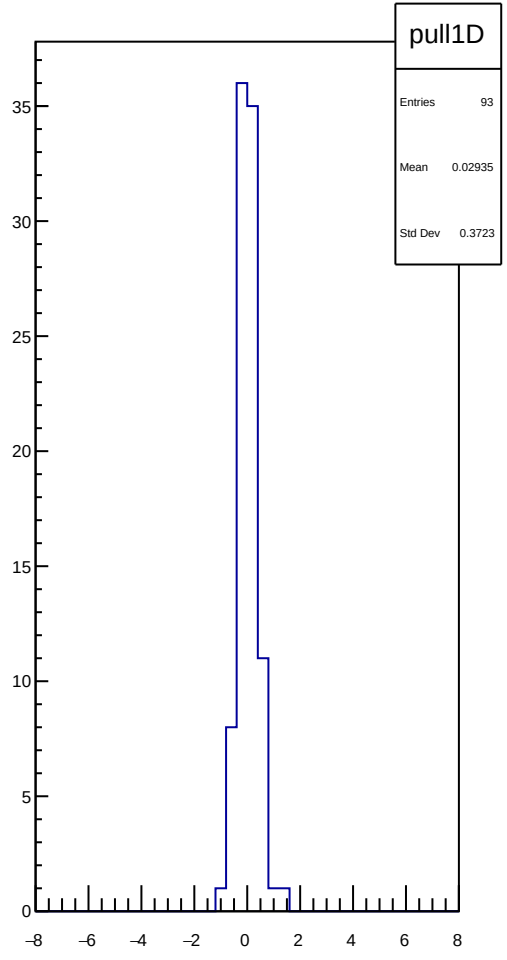

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.992 / 92
p0 −418 ± 9.758
pull
Entries 93
Mean 450.9
Std Dev 0

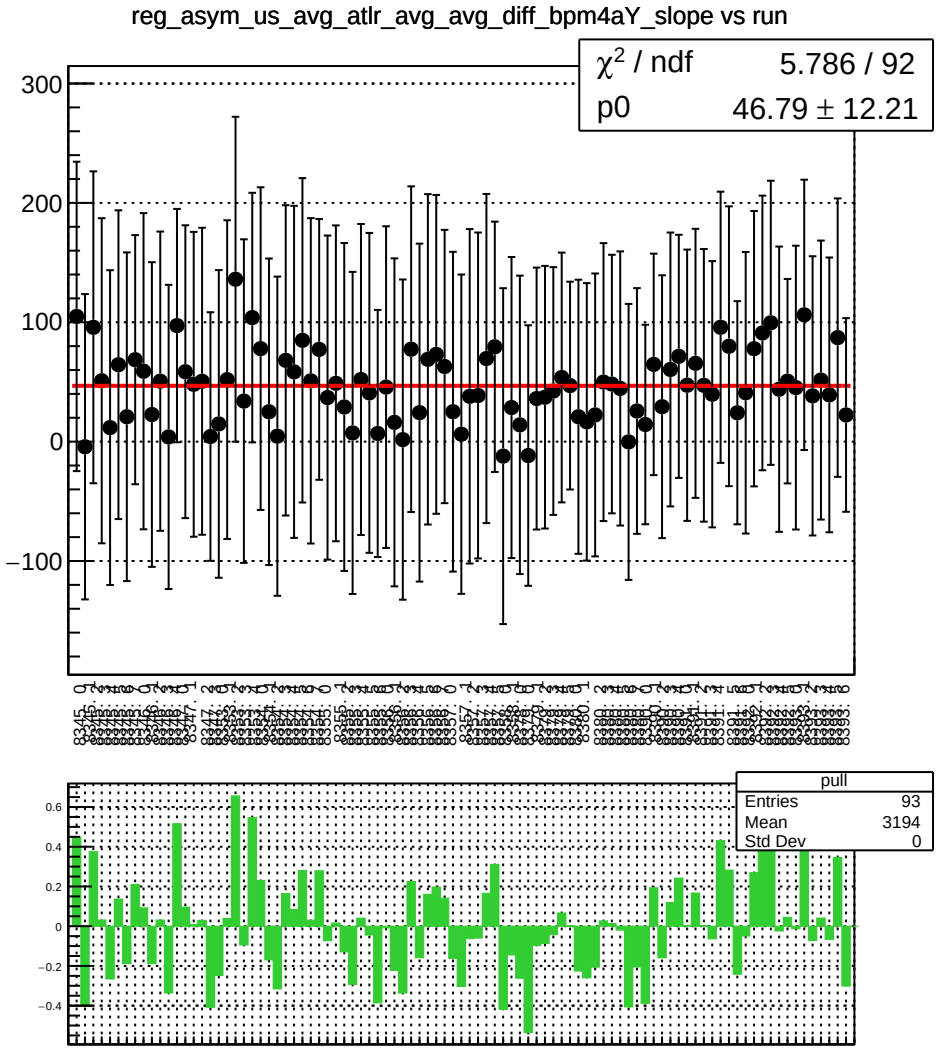

pull1D
Entries 93
Mean 0.007259
Std Dev 0.2931

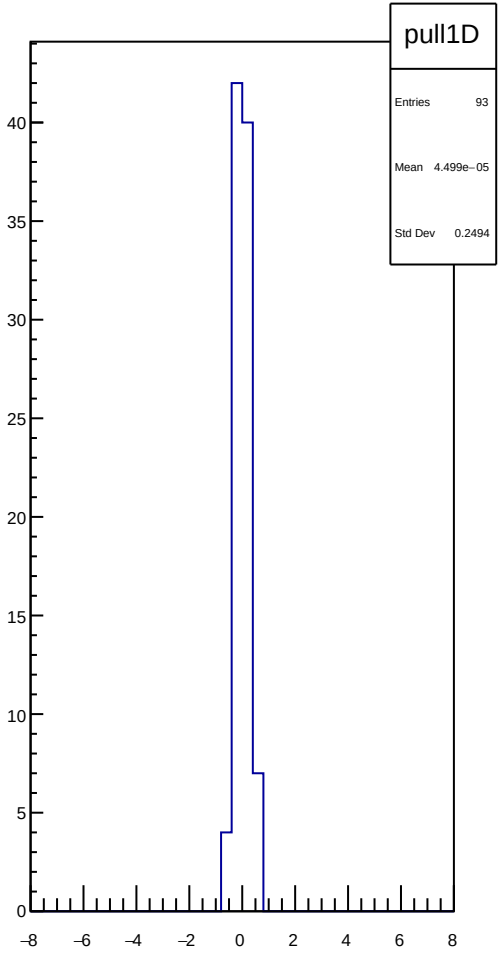

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.518 / 92
p0 −52.71 ± 16.31
200
100
0
−100
−200
−300
pull
Entries 93
Mean 22.13
Std Dev 109.5
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 93
Mean 0.004148
Std Dev 0.2204
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

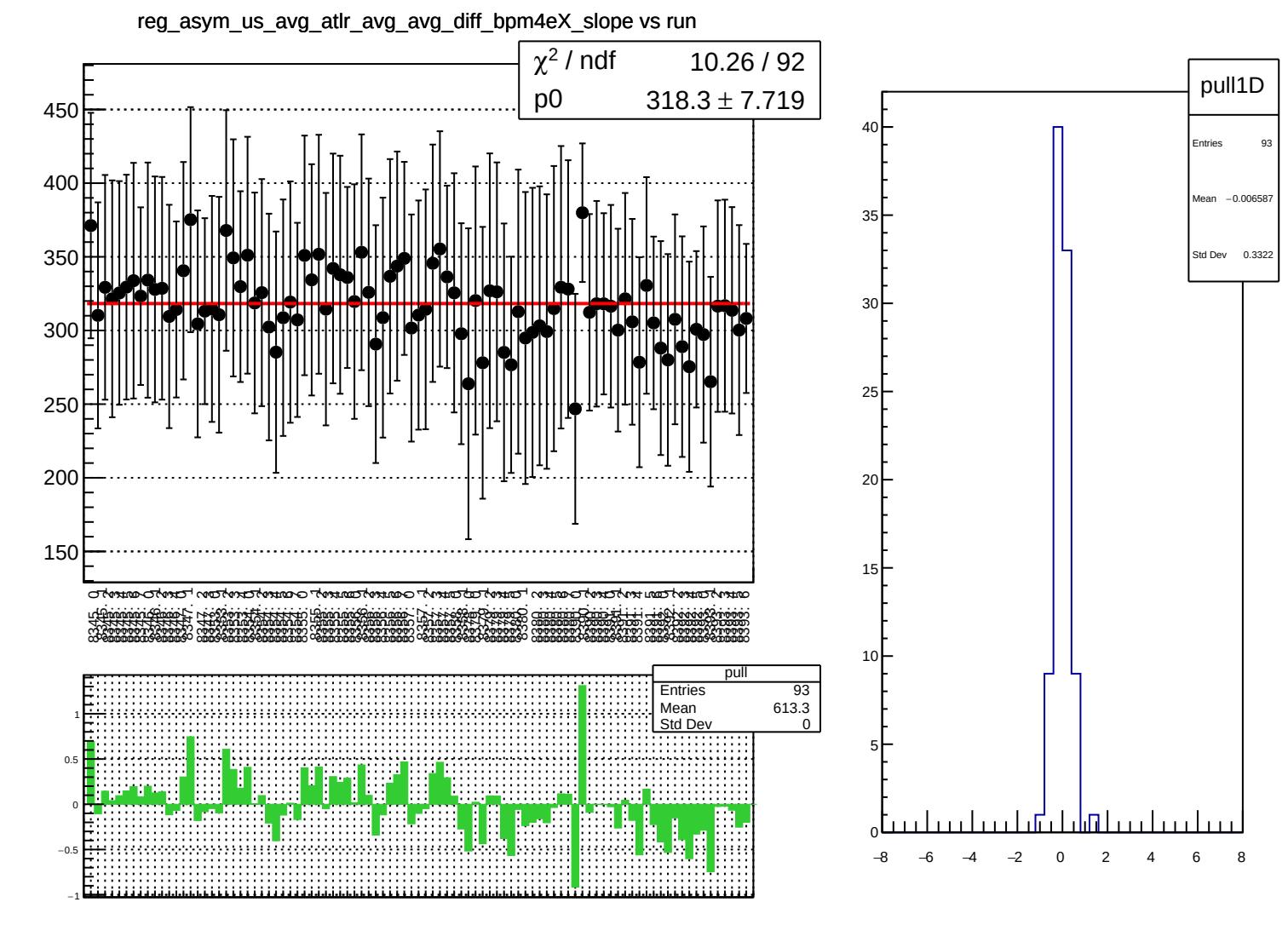

reg_asym_us_avg_at2lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 50.3 / 92
p0 254.1 ± 0.9214
270
260
250
240
230
220
pull
Entries 93
Mean −336.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 93
Mean 0.03676
Std Dev 0.7345
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

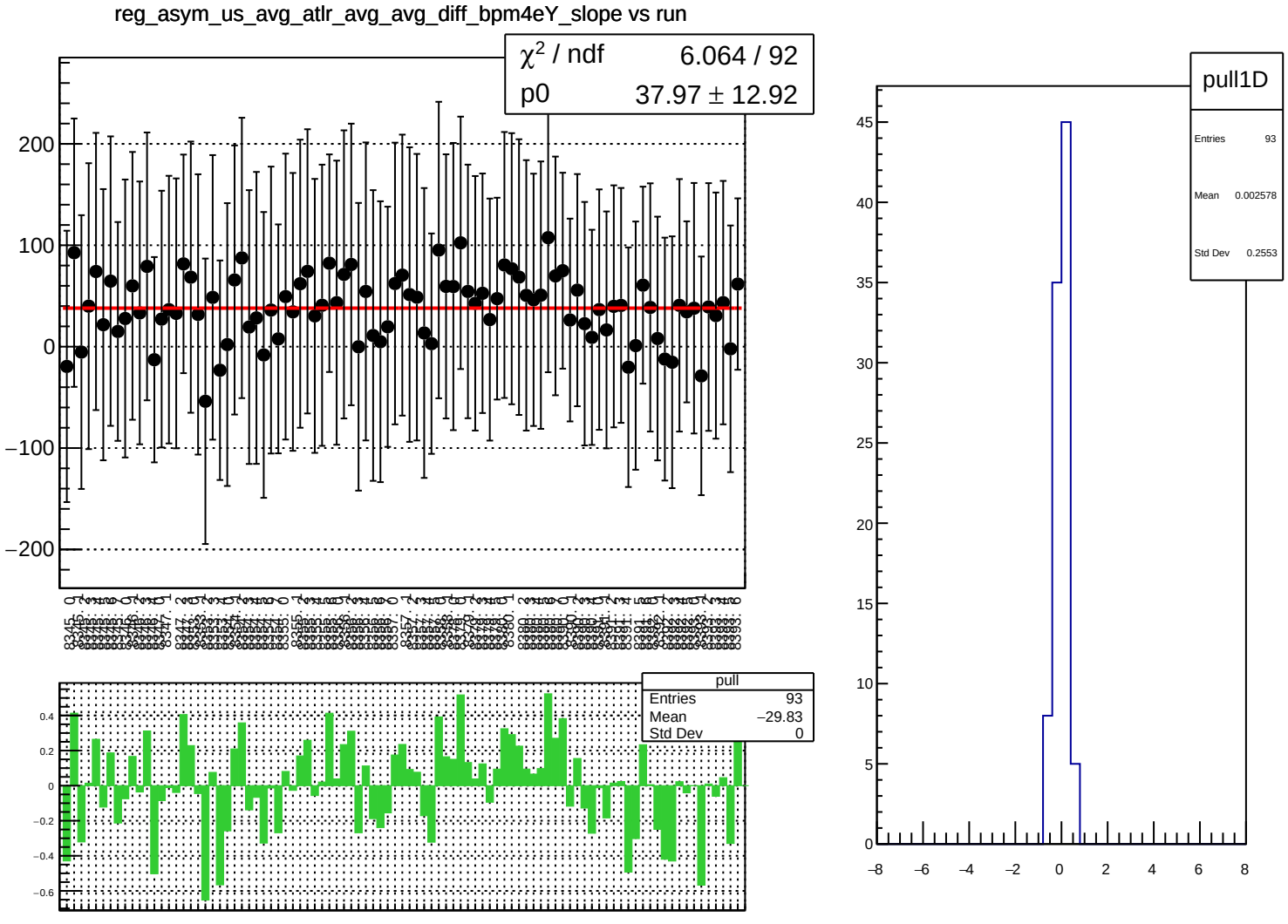

reg_asym_us_avg_atlr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 12.97 / 92
p0 −353.3 ± 7.035
pull
Entries 93
Mean 201.7
Std Dev 0

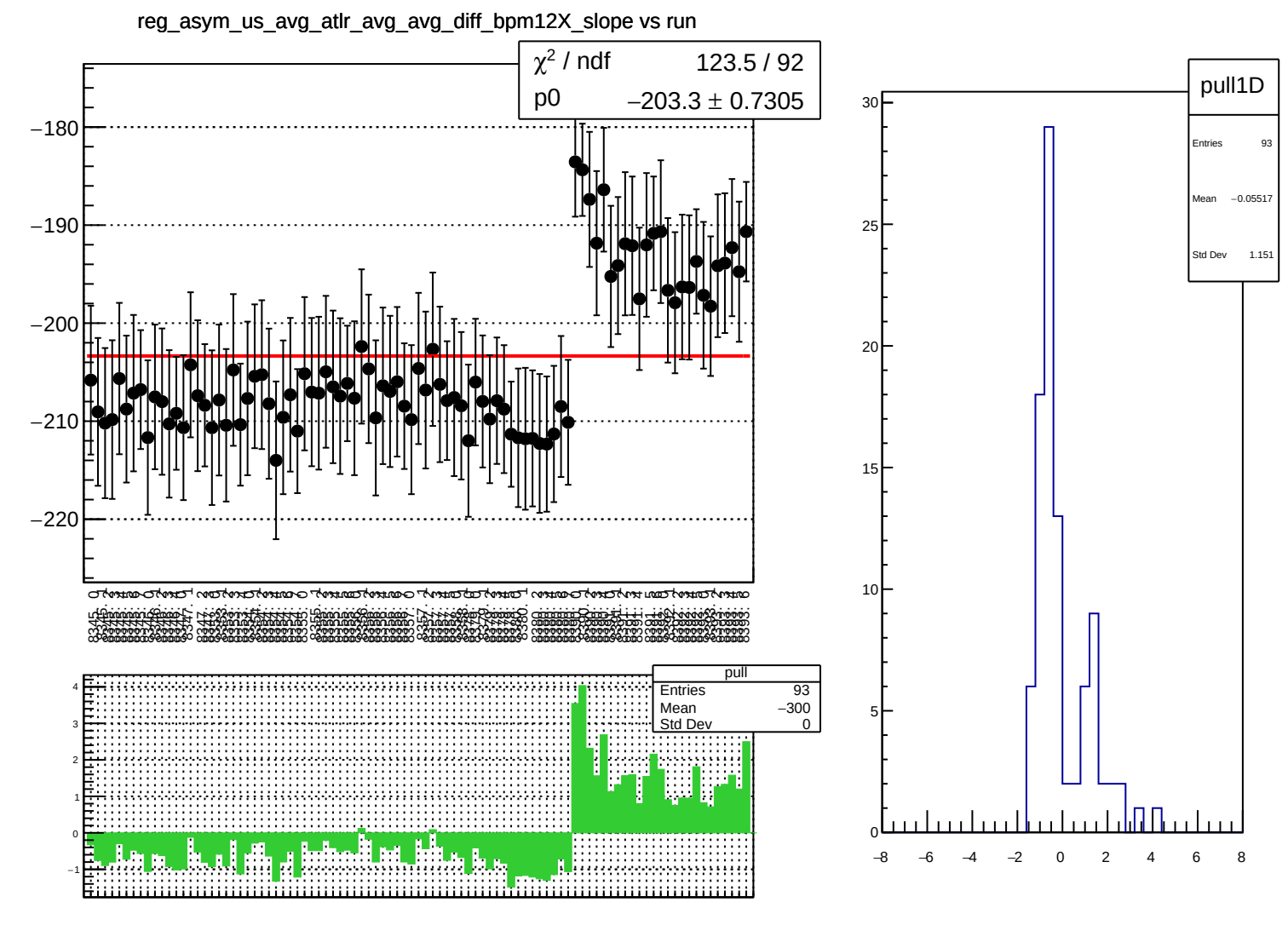

pull1D
Entries 93
Mean 0.02935
Std Dev 0.3723

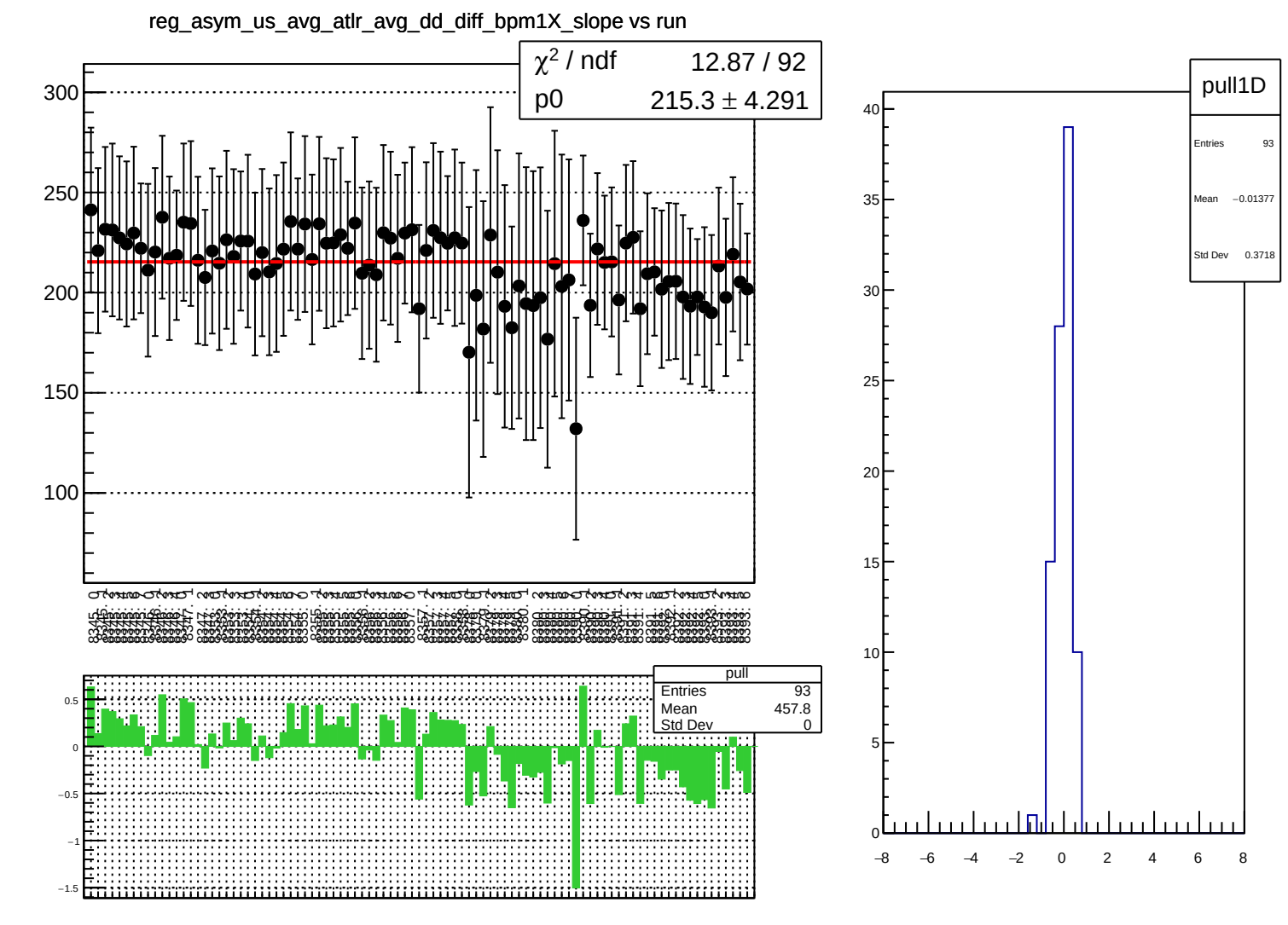

reg_asym_us_avg_atlr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.786 / 92
p0 46.79 ± 12.21
300
200
100
0
−100
pull
Entries 93
Mean 3194
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4

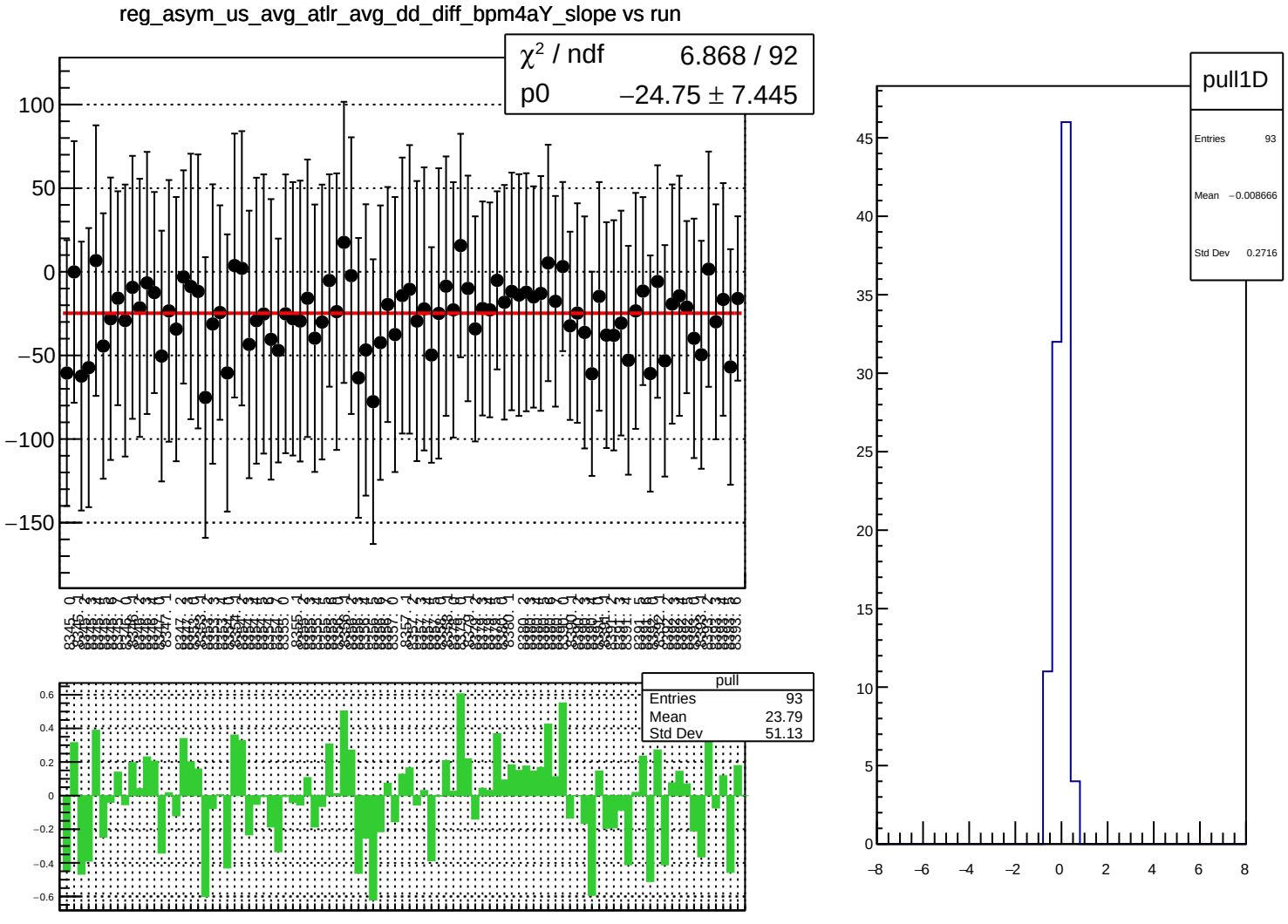

pull1D
Entries 93
Mean 4.499e−05
Std Dev 0.2494
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

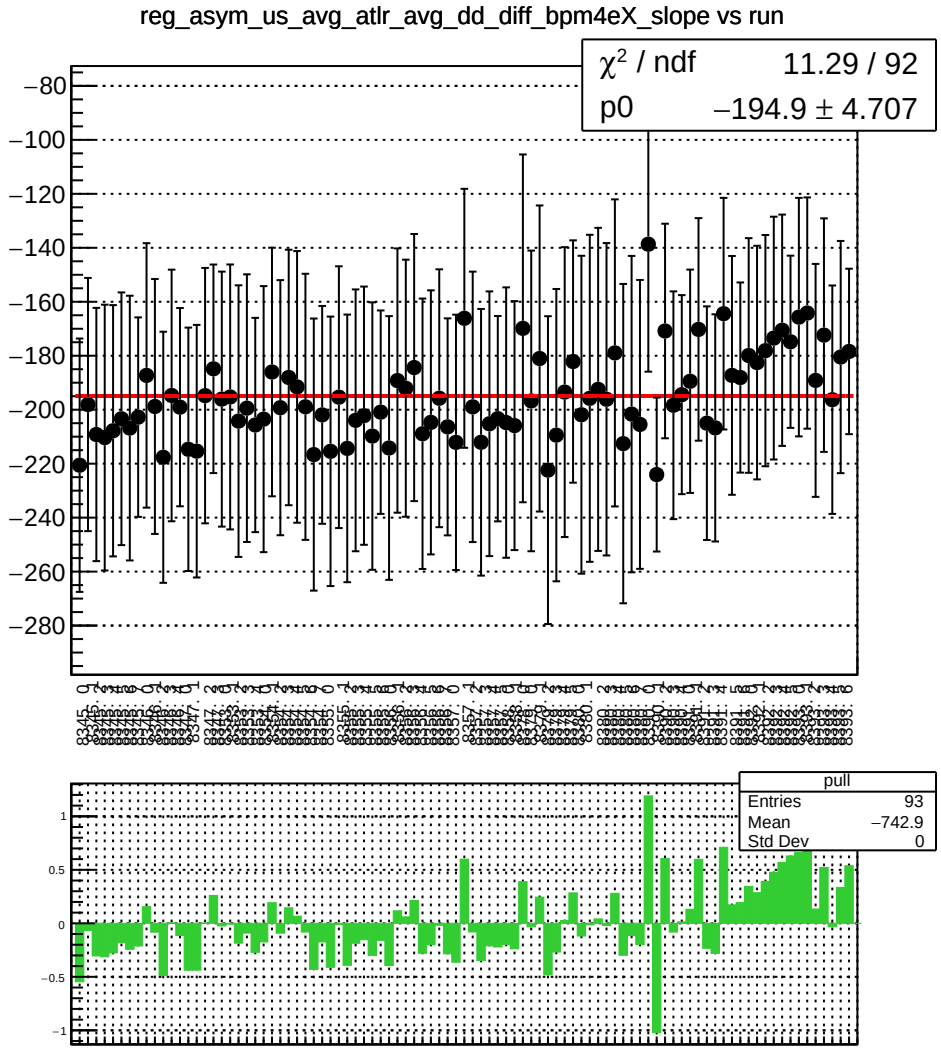

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 10.26 / 92
p0 318.3 ± 7.719
450
400
350
300
250
200
150
pull
Entries 93
Mean 613.3
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 93
Mean −0.006587
Std Dev 0.3322
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

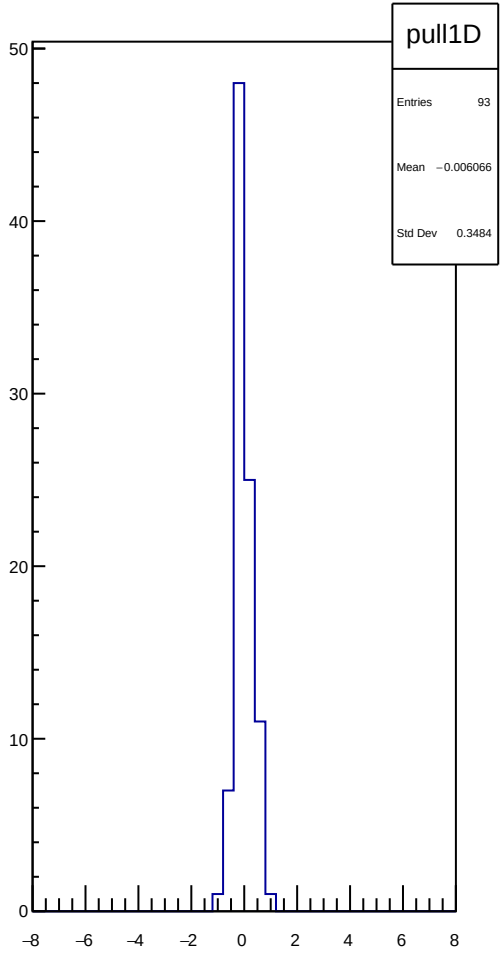

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.064 / 92
p0 37.97 ± 12.92
200
100
0
−100
−200
pull
Entries 93
Mean −29.83
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 93
Mean 0.002578
Std Dev 0.2553
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

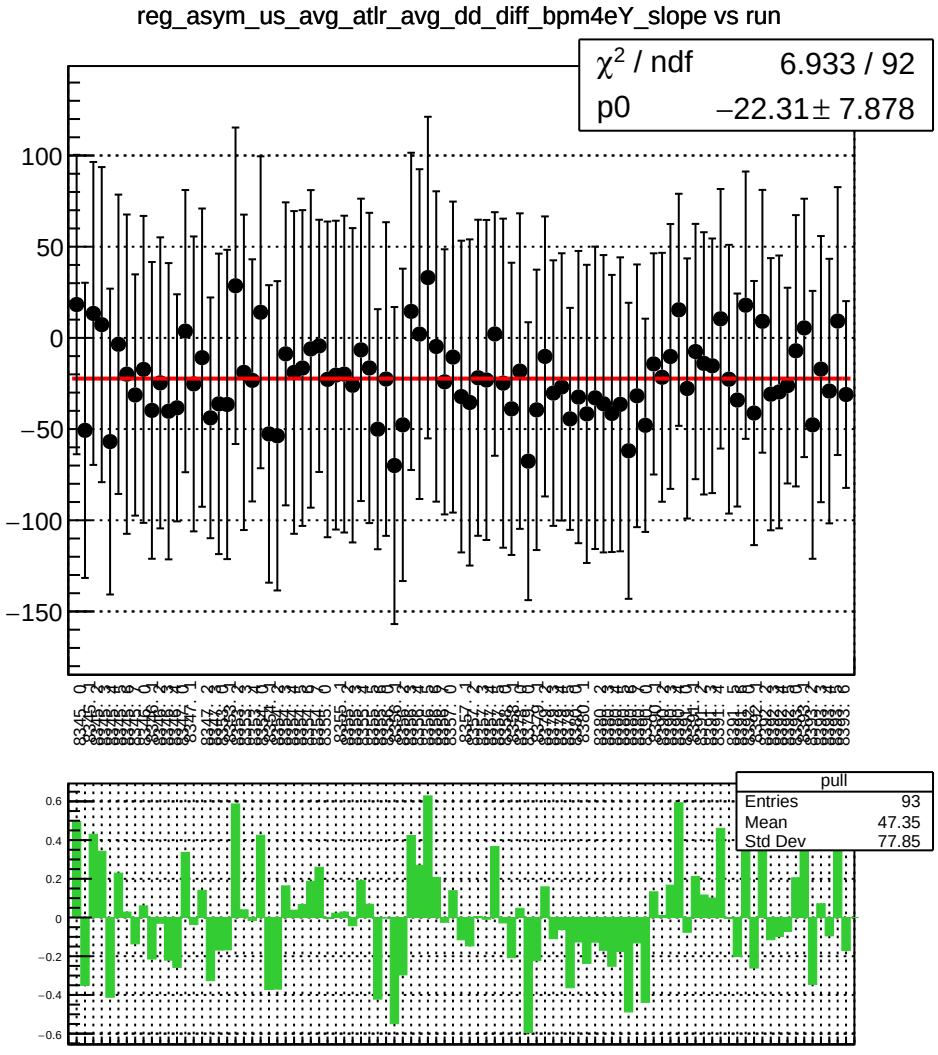

reg_asym_us_avg_atlr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 123.5 / 92
p0 −203.3 ± 0.7305
−180
−190
−200
−210
−220
pull
Entries 93
Mean −300
Std Dev 0
4
3
2
1
0
−1
pull1D
Entries 93
Mean −0.05517
Std Dev 1.151
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

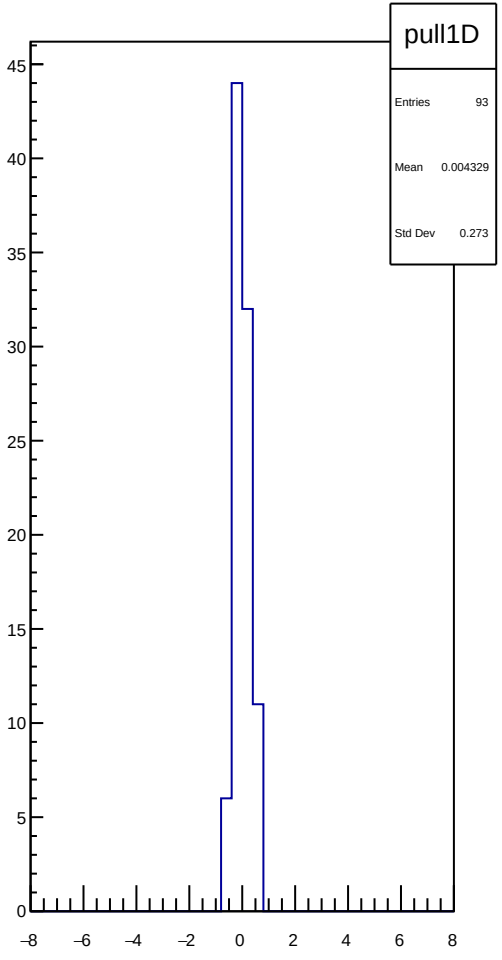

reg_asym_us_avg_atlr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 12.87 / 92
p0 215.3 ± 4.291
300
250
200
150
100
pull
Entries 93
Mean 457.8
Std Dev 0
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean −0.01377
Std Dev 0.3718
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

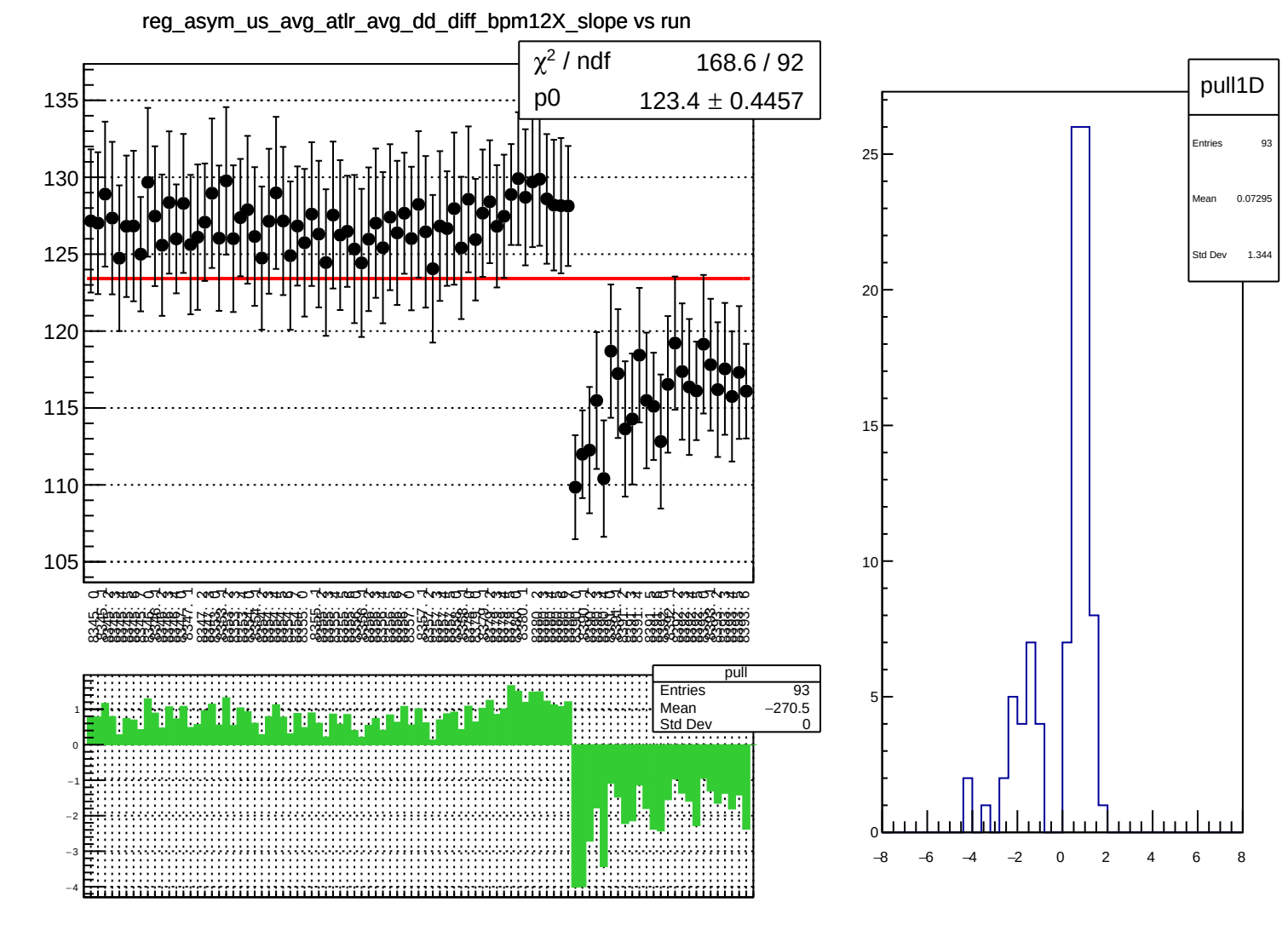

reg_asym_us_avg_atlr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.868 / 92
p0 −24.75 ± 7.445
100
50
0
−50
−100
−150
pull
Entries 93
Mean 23.79
Std Dev 51.13
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 93
Mean −0.008666
Std Dev 0.2716
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

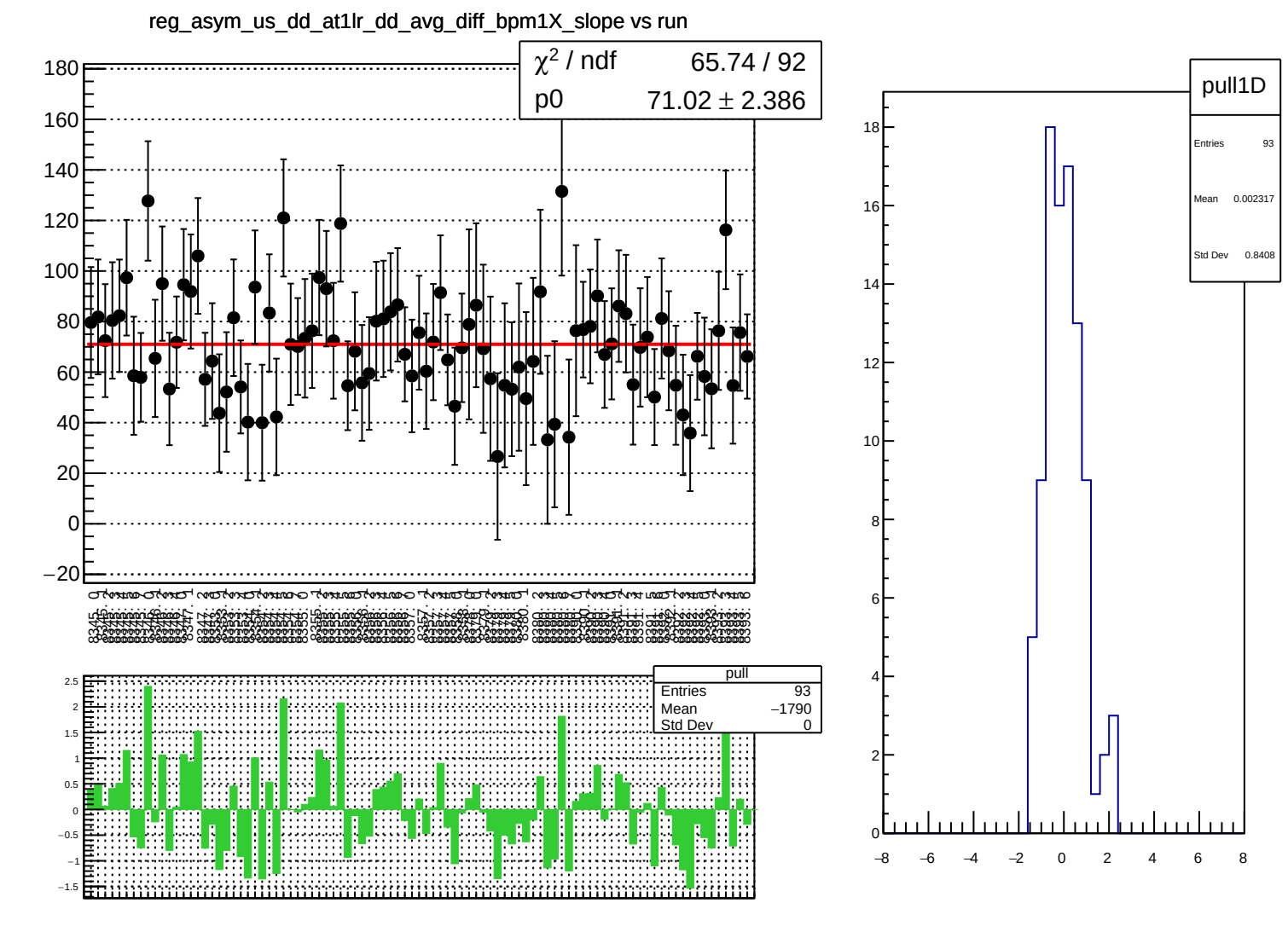

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 11.29 / 92
p0 −194.9 ± 4.707
pull
Entries 93
Mean −742.9
Std Dev 0

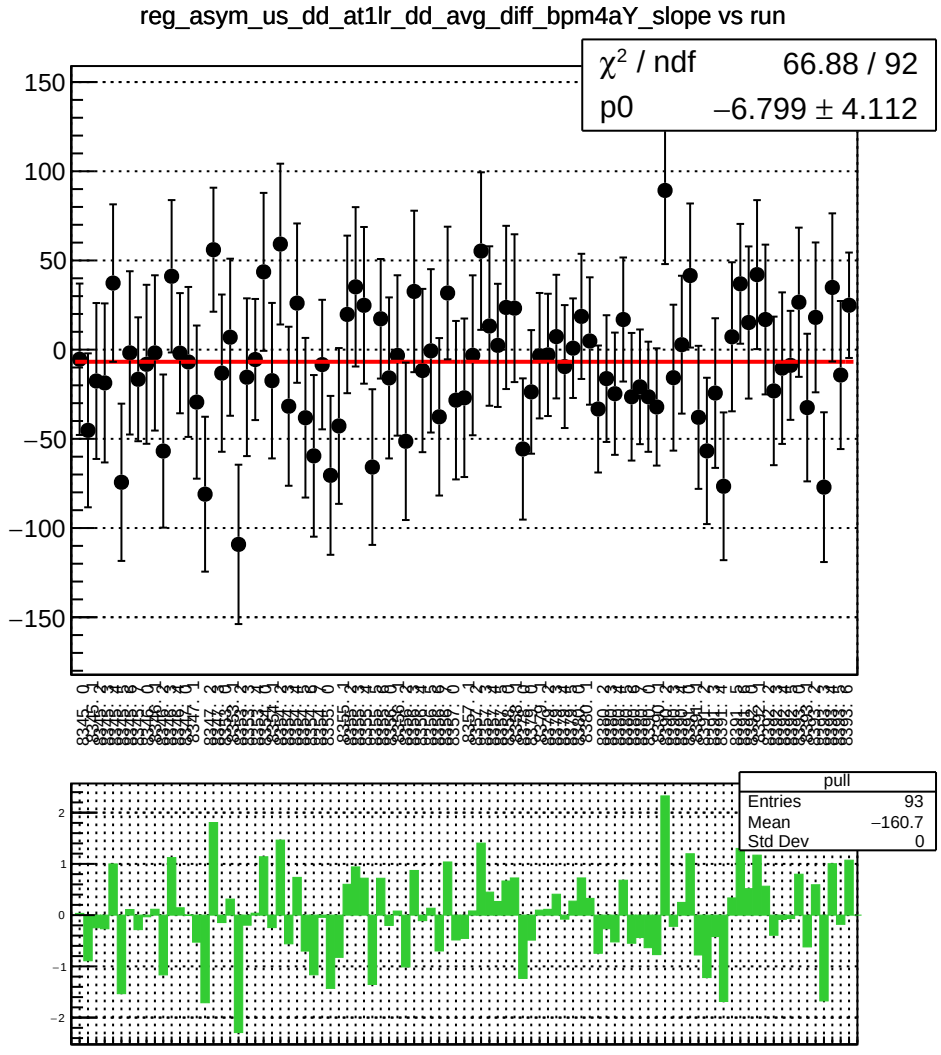

pull1D
Entries 93
Mean −0.006066
Std Dev 0.3484

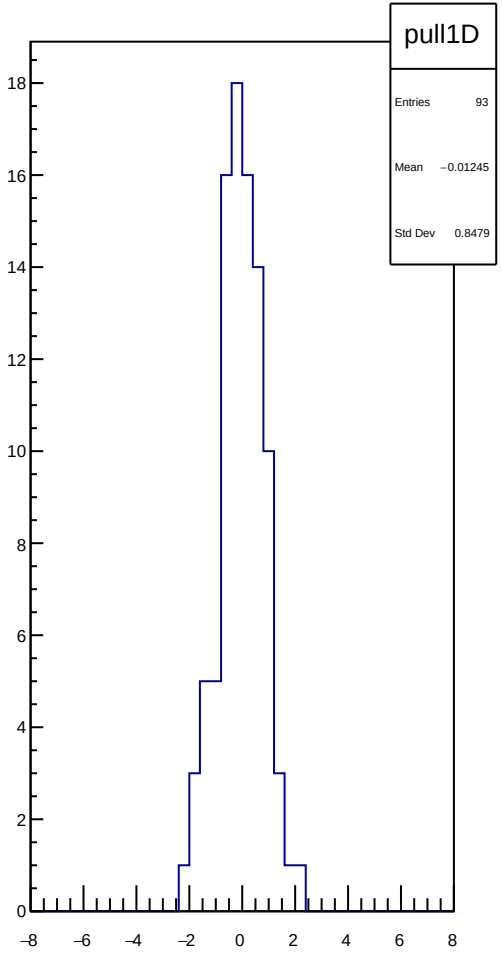

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.933 / 92
p0 −22.31 ± 7.878
pull
Entries 93
Mean 47.35
Std Dev 77.85

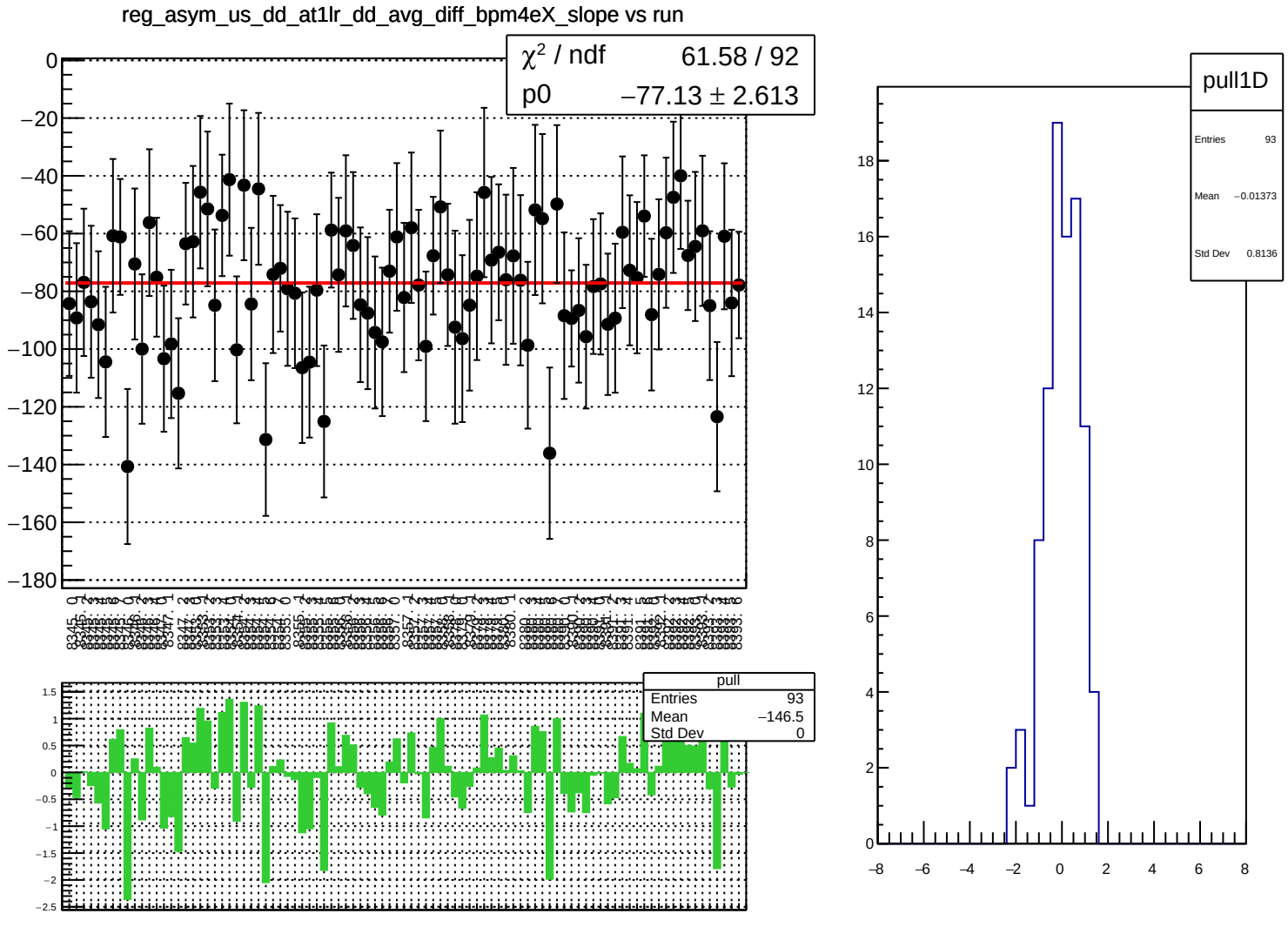

pull1D
Entries 93
Mean 0.004329
Std Dev 0.273

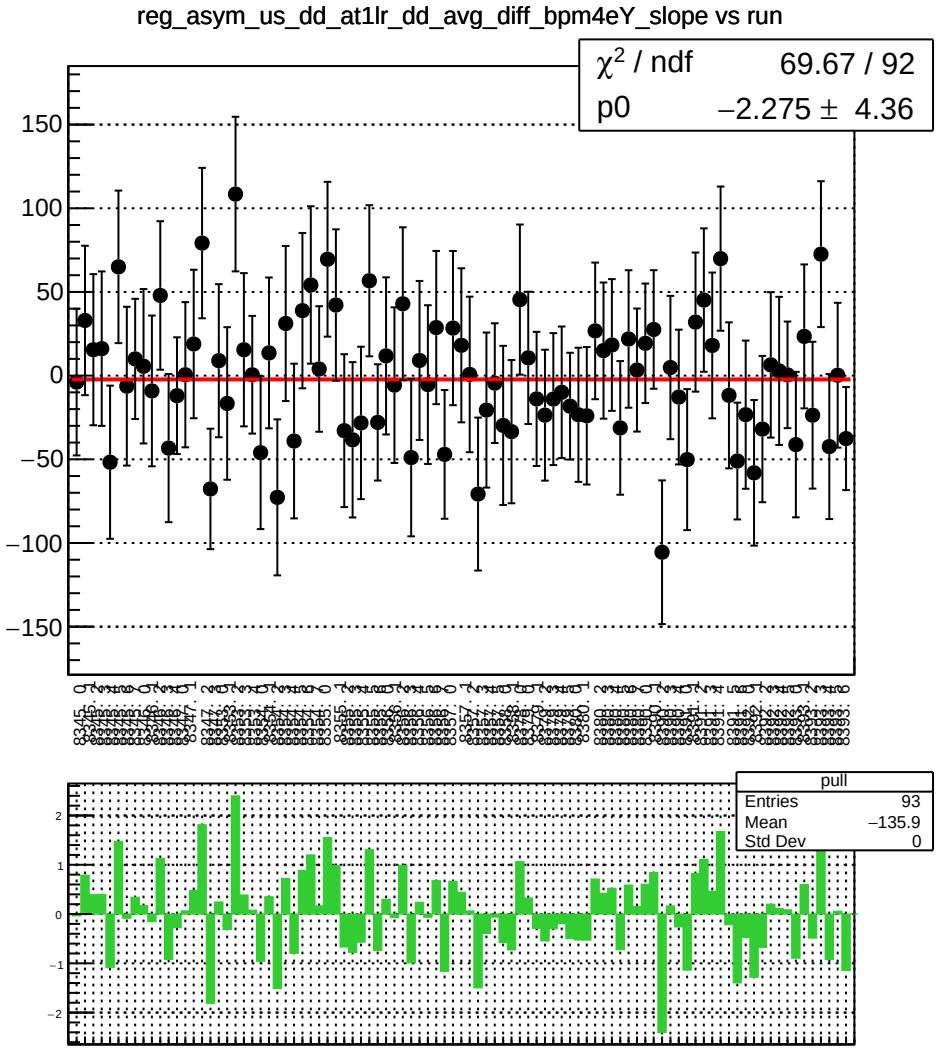

reg_asym_us_avg_atlr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 168.6 / 92
p0 123.4 ± 0.4457
pull
Entries 93
Mean −270.5
Std Dev 0
pull1D
Entries 93
Mean 0.07295
Std Dev 1.344

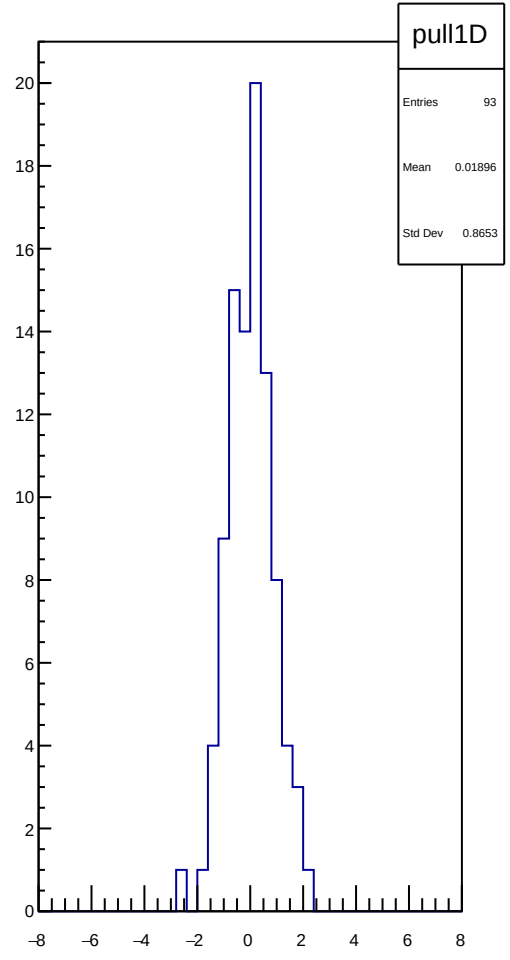

reg_asym_us_dd_at1lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 65.74 / 92
p0 71.02 ± 2.386
pull
Entries 93
Mean −1790
Std Dev 0
pull1D
Entries 93
Mean 0.002317
Std Dev 0.8408

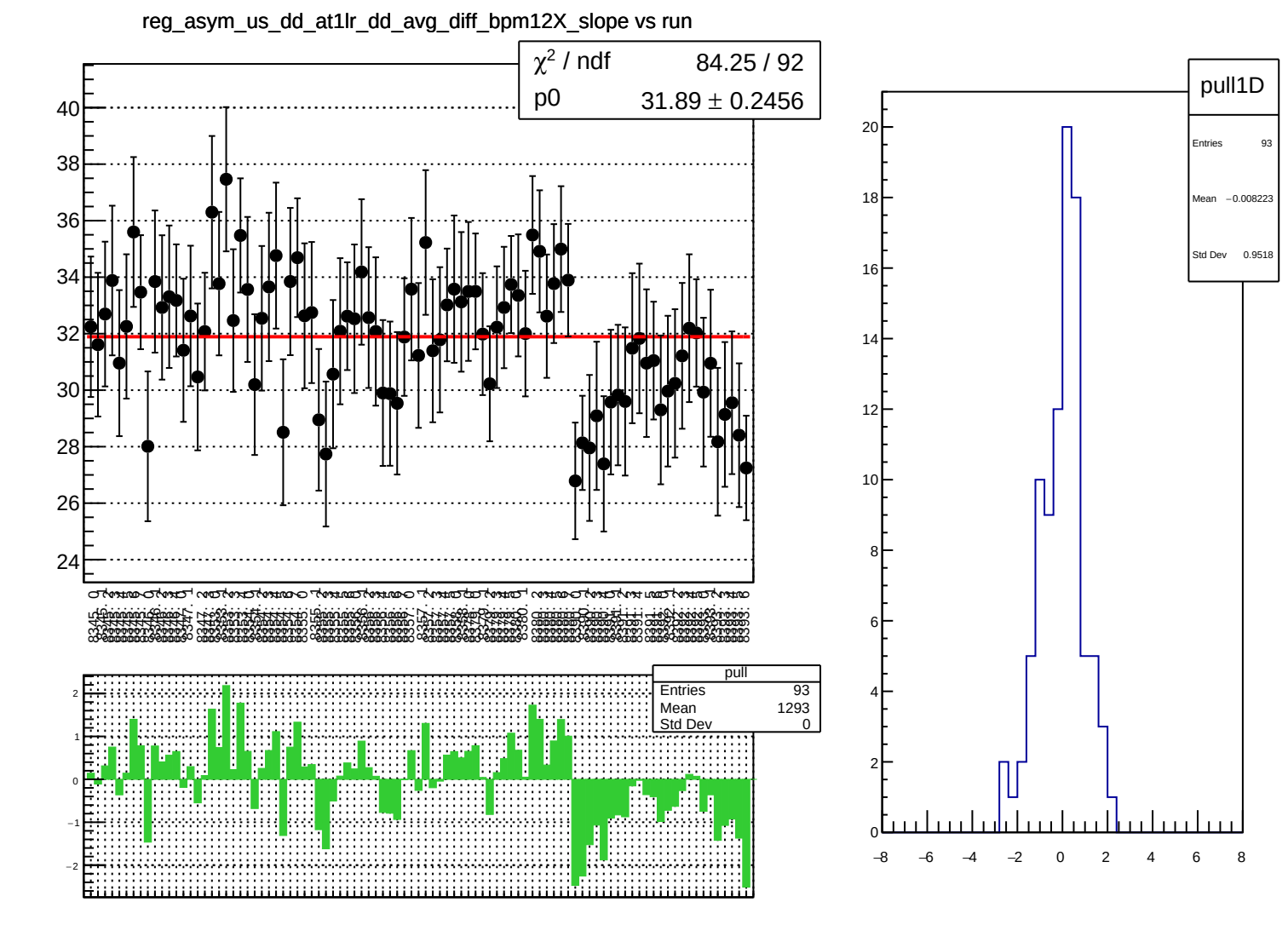

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 66.88 / 92
p0 −6.799 ± 4.112
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean −160.7
Std Dev 0
2
1
0
−1
−2

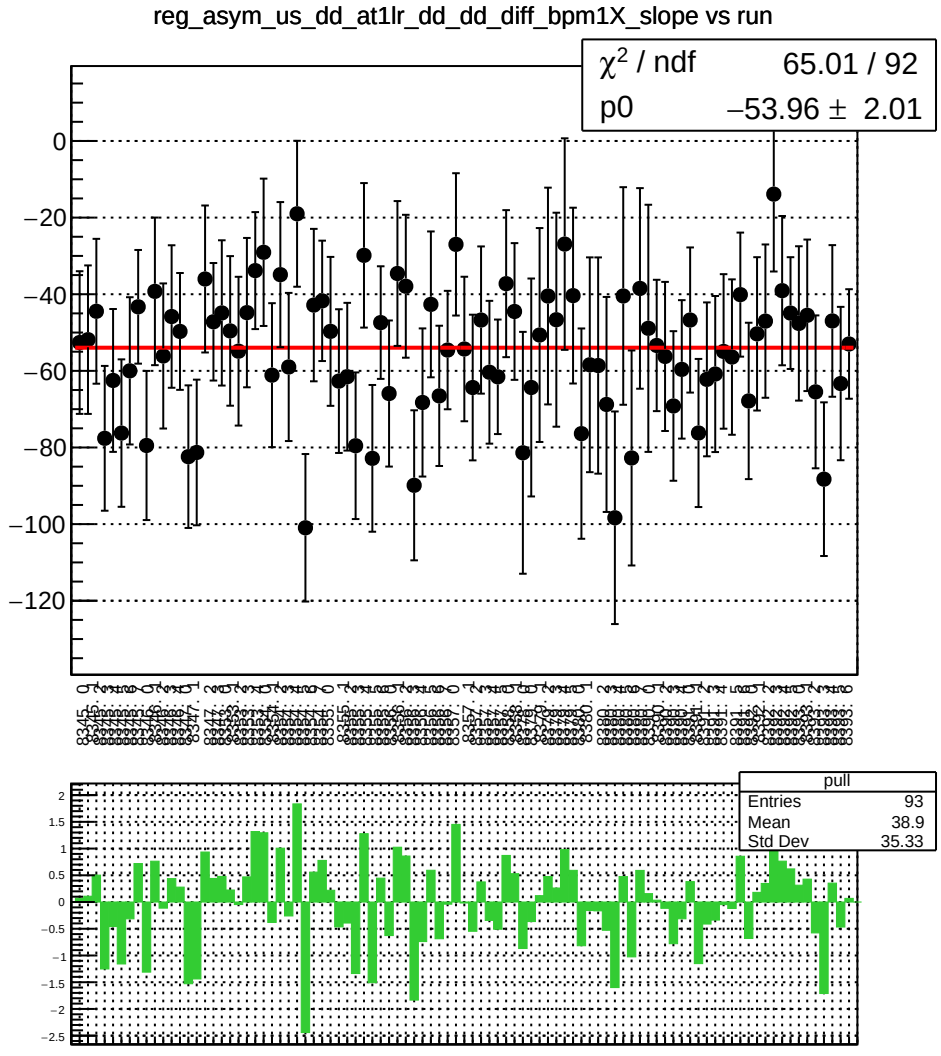

pull1D
Entries 93
Mean −0.01245
Std Dev 0.8479
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

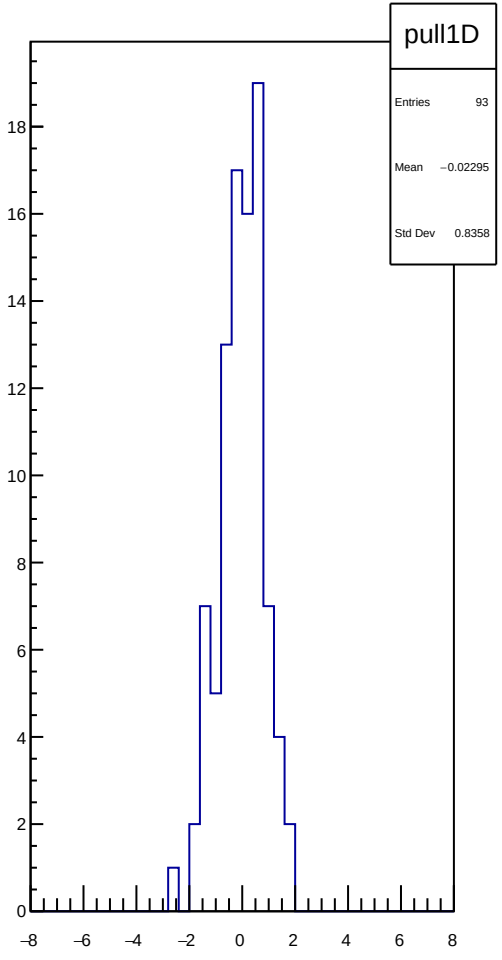

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 61.58 / 92
p0 −77.13 ± 2.613
pull
Entries 93
Mean −146.5
Std Dev 0
pull1D
Entries 93
Mean −0.01373
Std Dev 0.8136

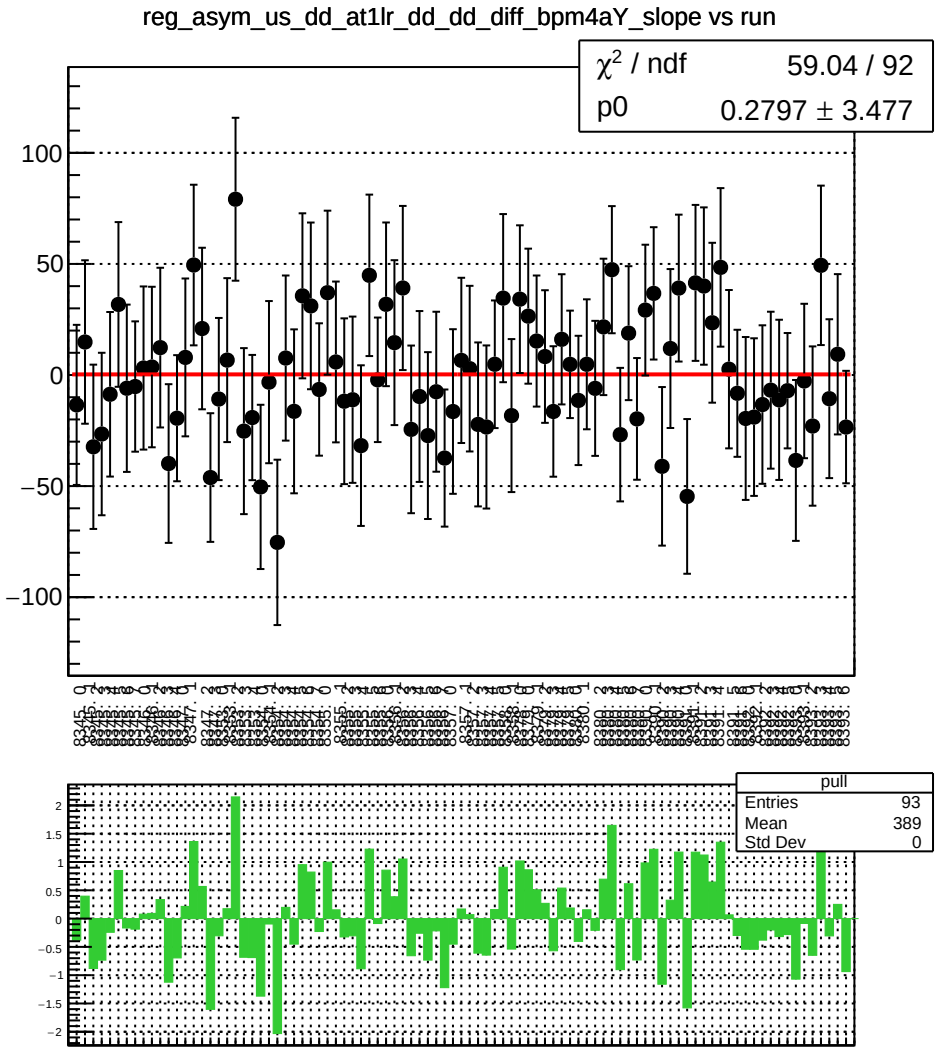

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 69.67 / 92
p0 −2.275 ± 4.36
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean −135.9
Std Dev 0
2
1
0
−1
−2

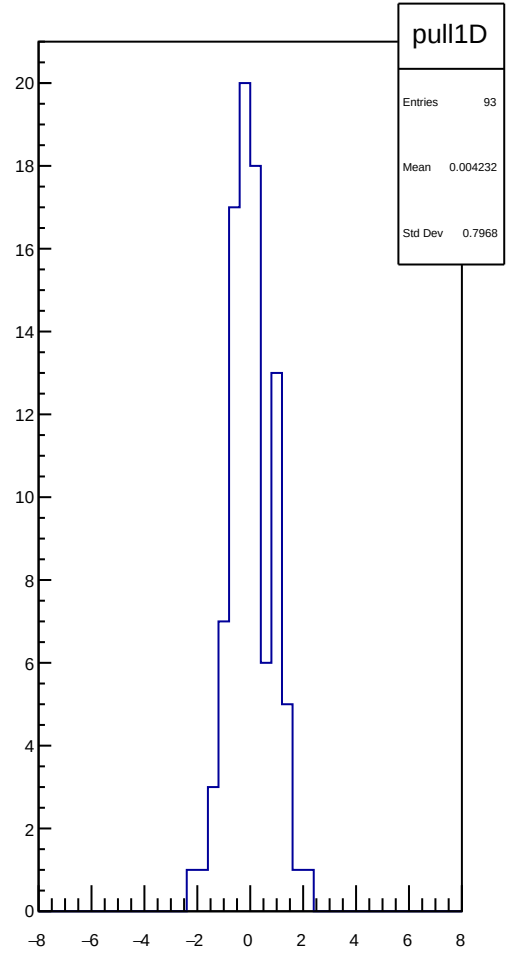

pull1D
Entries 93
Mean 0.01896
Std Dev 0.8653
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

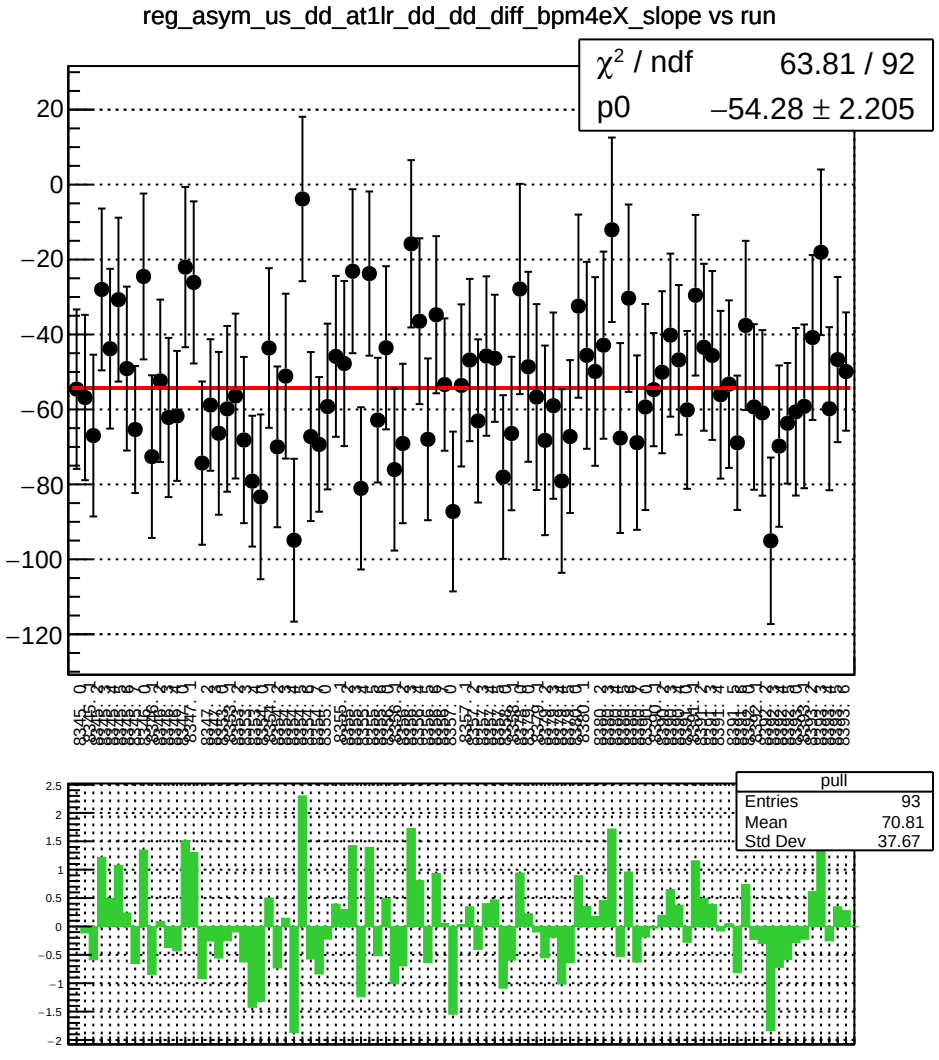

reg_asym_us_dd_at1lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 84.25 / 92
p0 31.89 ± 0.2456
pull
Entries 93
Mean 1293
Std Dev 0
pull1D
Entries 93
Mean −0.008223
Std Dev 0.9518

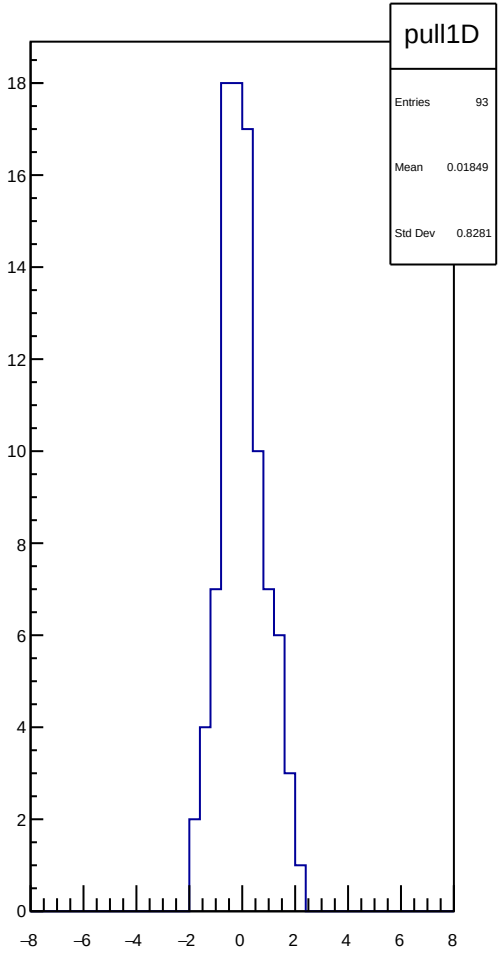

reg_asym_us_dd_at1lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 65.01 / 92
p0 −53.96 ± 2.01
pull
Entries 93
Mean 38.9
Std Dev 35.33

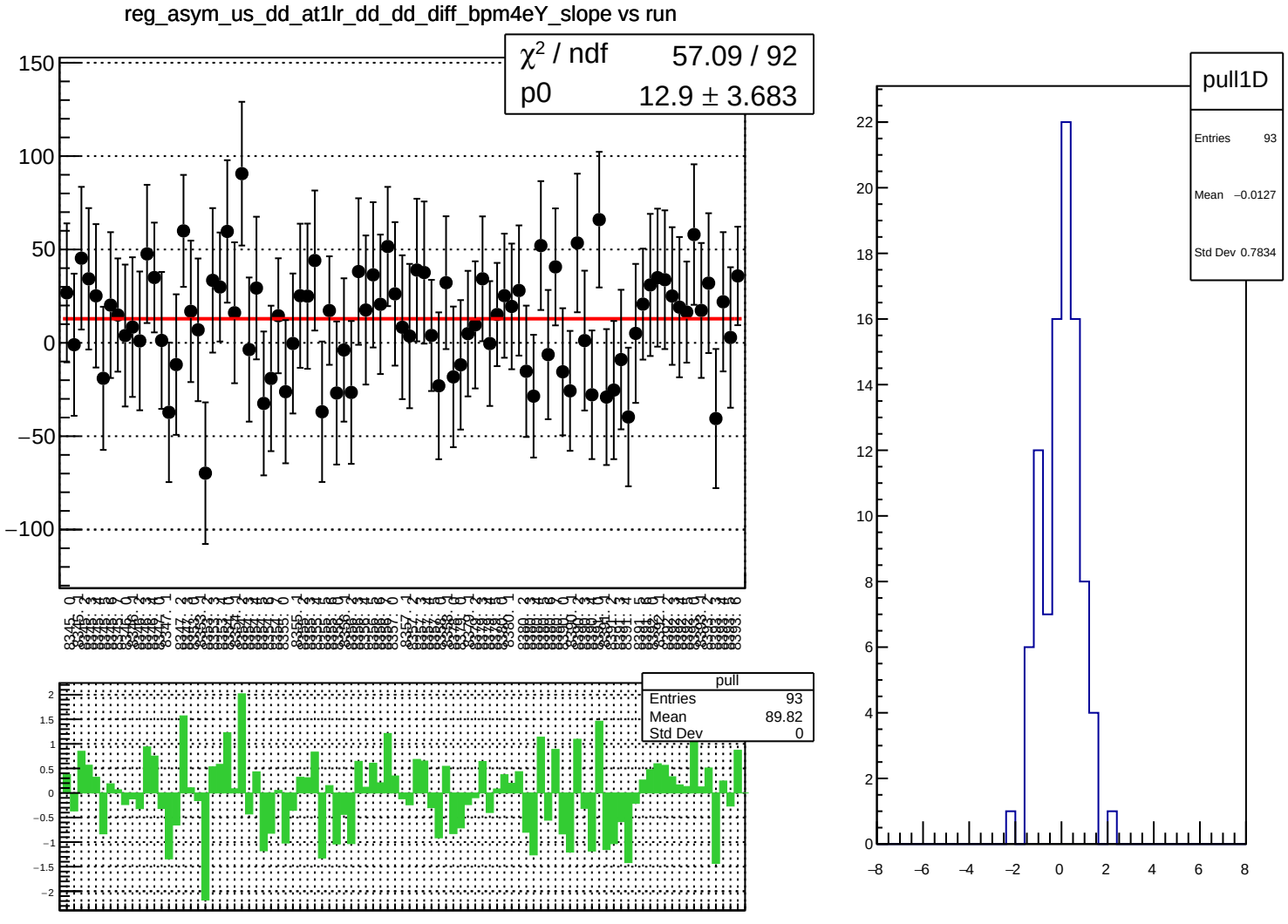

pull1D
Entries 93
Mean −0.02295
Std Dev 0.8358

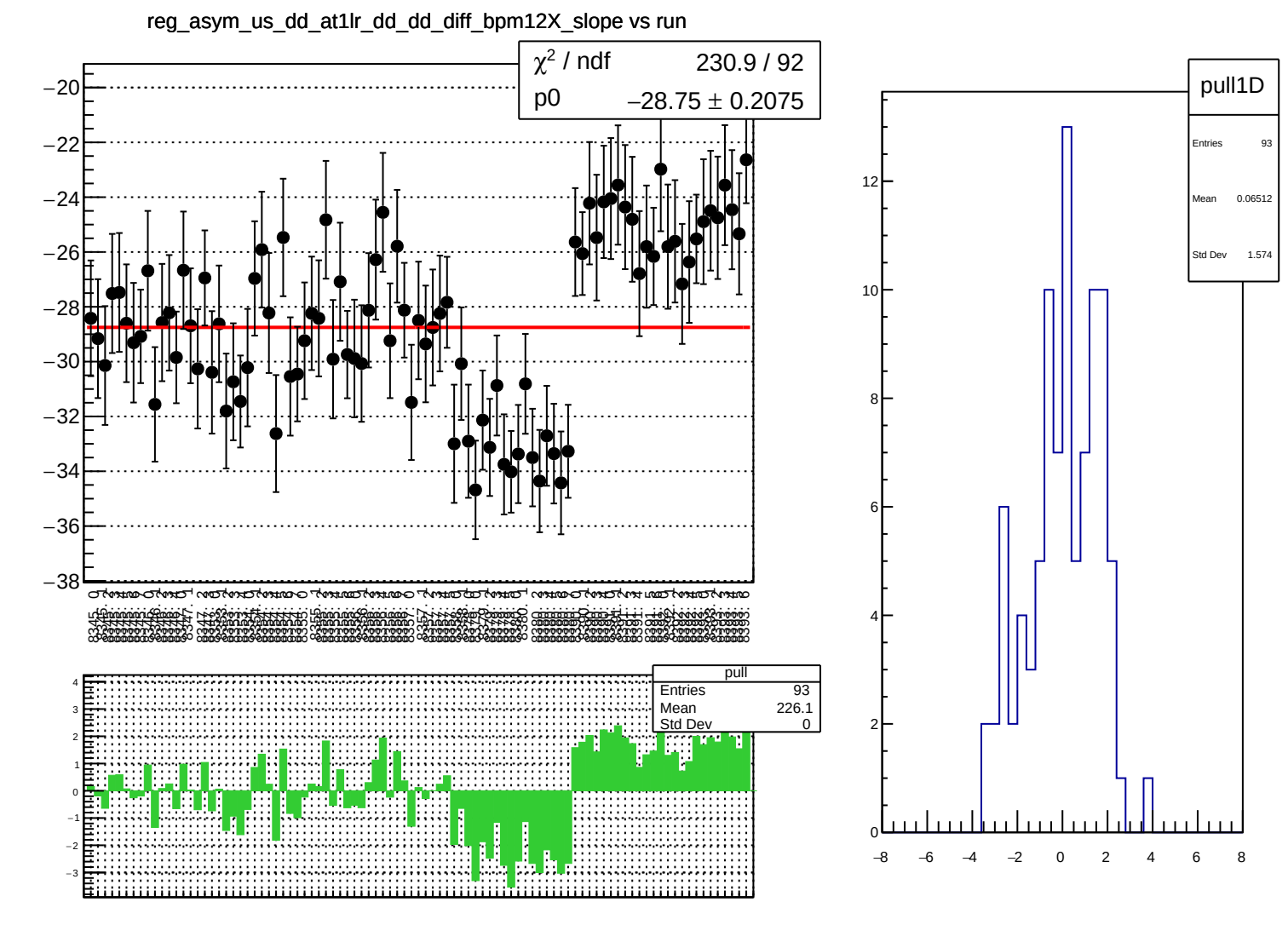

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 59.04 / 92
p0 0.2797 ± 3.477
100
50
0
−50
−100
pull
Entries 93
Mean 389
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

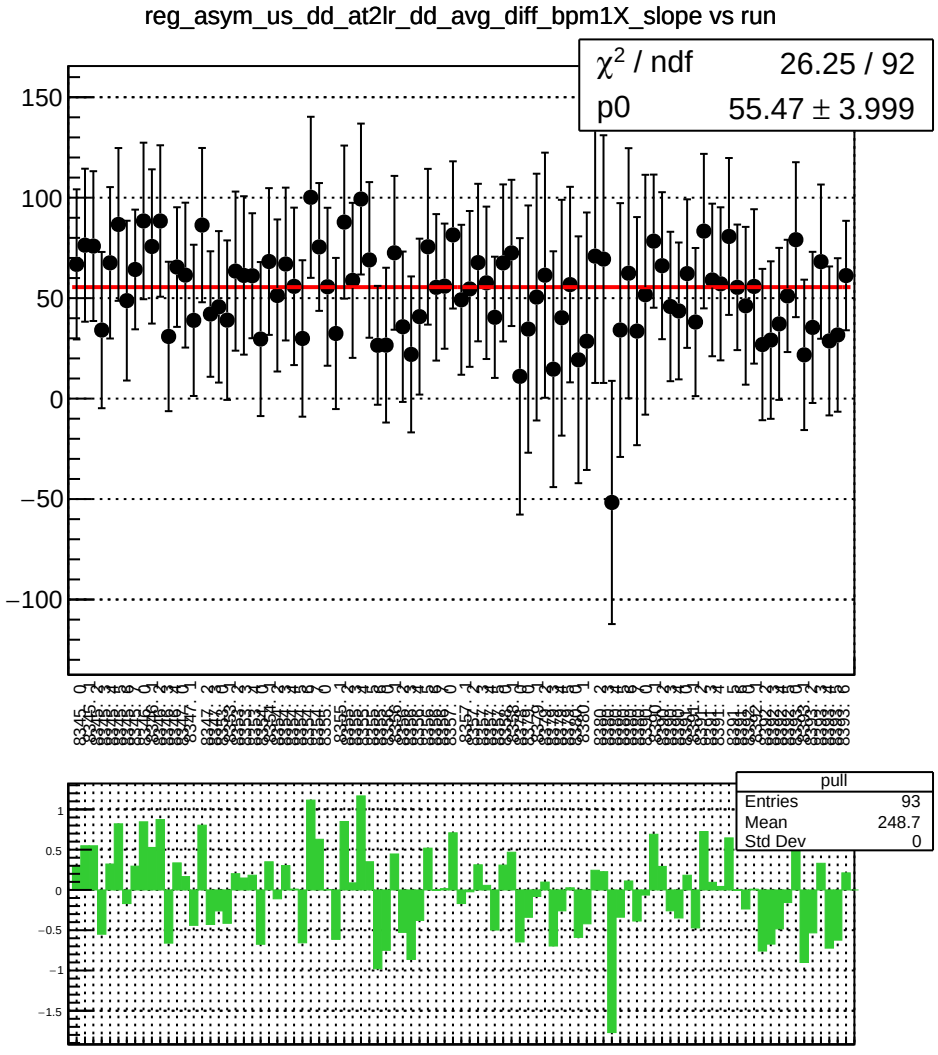

pull1D
Entries 93
Mean 0.004232
Std Dev 0.7968
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

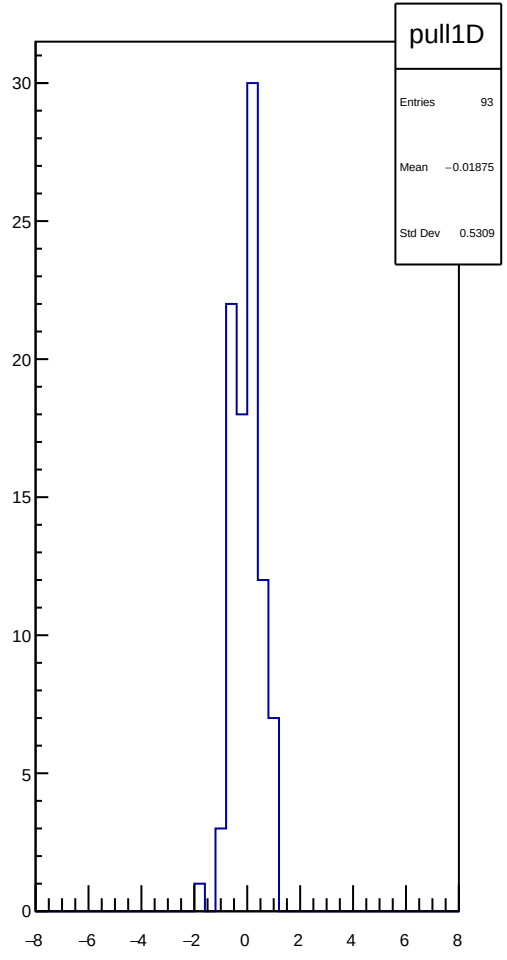

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 63.81 / 92
p0 −54.28 ± 2.205
pull
Entries 93
Mean 70.81
Std Dev 37.67

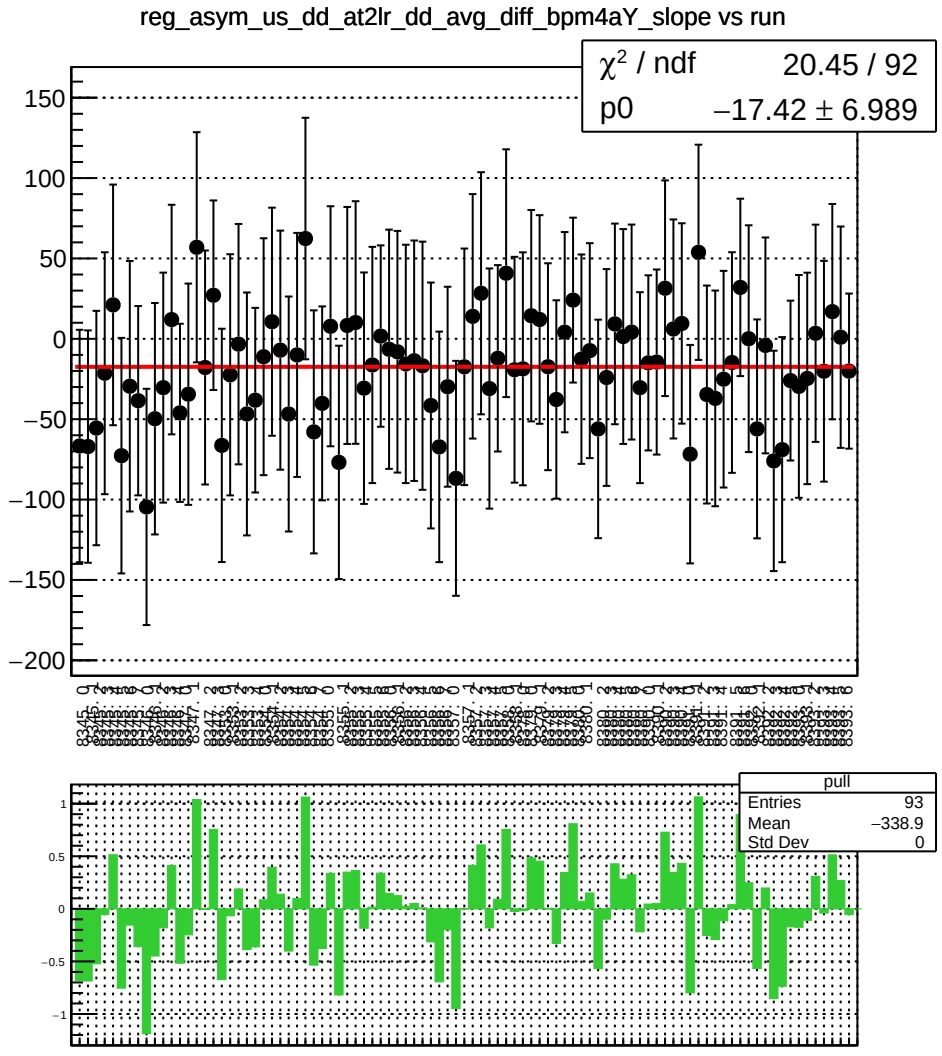

pull1D
Entries 93
Mean 0.01849
Std Dev 0.8281

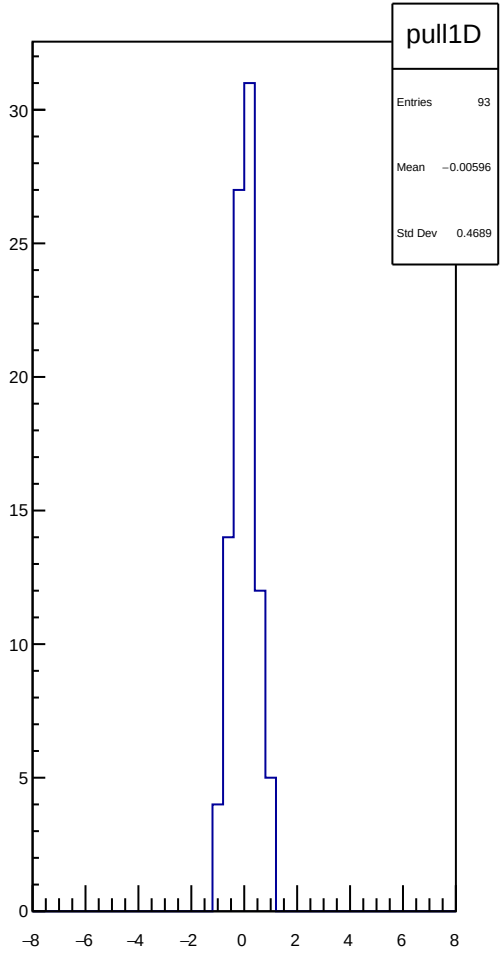

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 57.09 / 92
p0 12.9 ± 3.683
150
100
50
0
−50
−100
pull
Entries 93
Mean 89.82
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean −0.0127
Std Dev 0.7834
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

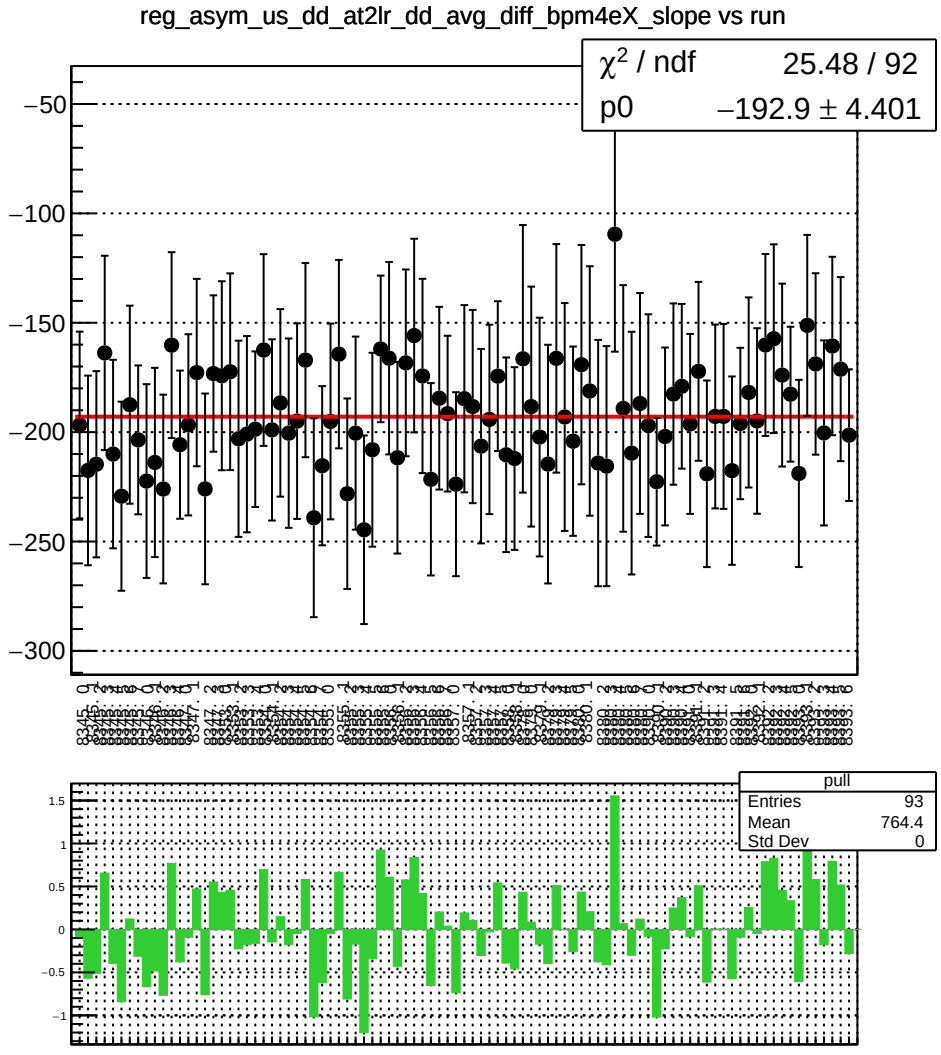

reg_asym_us_dd_at1lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 230.9 / 92
p0 −28.75 ± 0.2075
pull
Entries 93
Mean 226.1
Std Dev 0
pull1D
Entries 93
Mean 0.06512
Std Dev 1.574

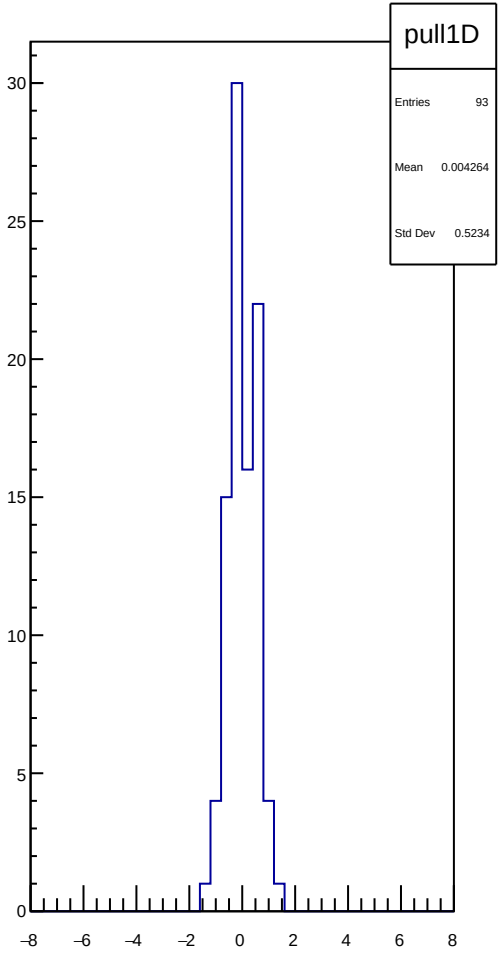

reg_asym_us_dd_at2lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 26.25 / 92
p0 55.47 ± 3.999
150
100
50
0
−50
−100
pull
Entries 93
Mean 248.7
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

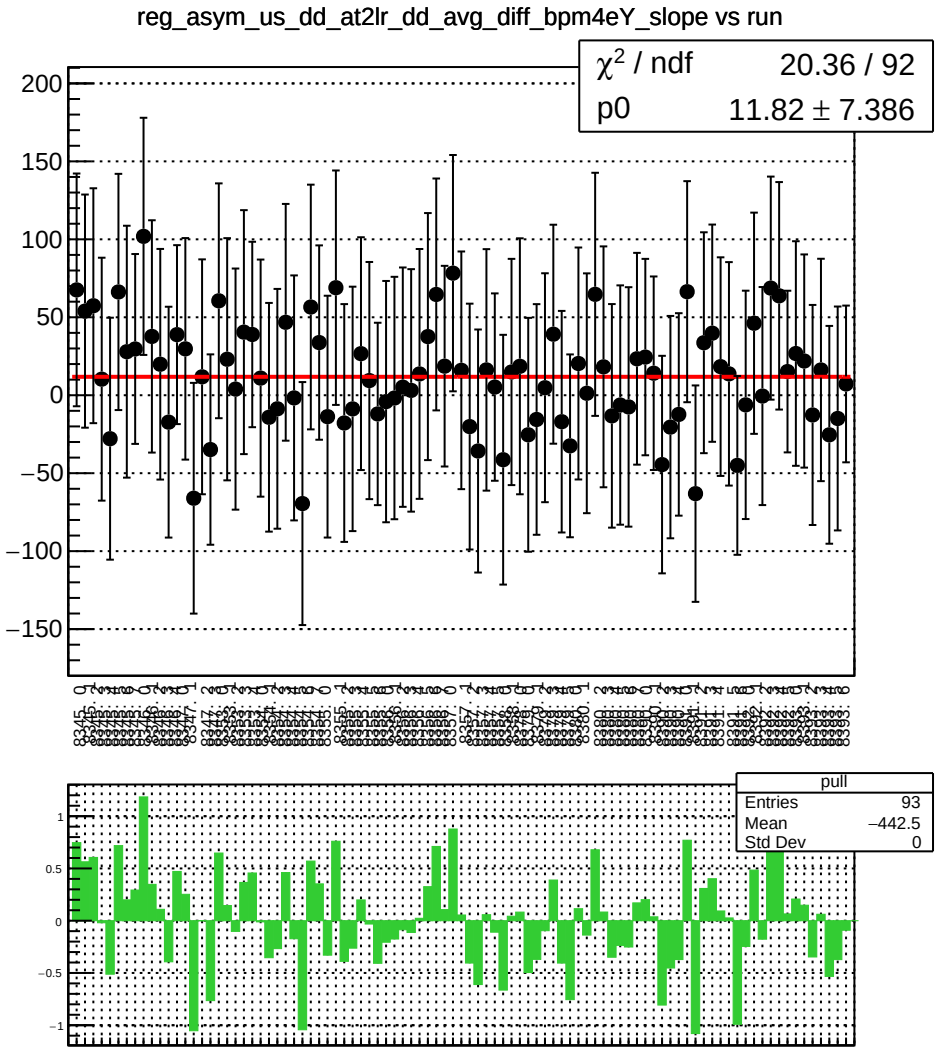

pull1D
Entries 93
Mean −0.01875
Std Dev 0.5309
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

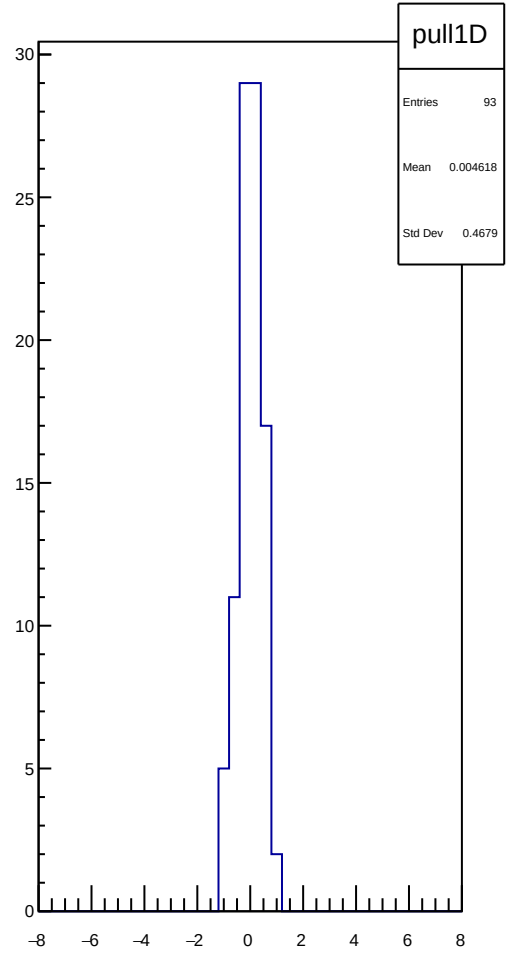

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 20.45 / 92
p0 −17.42 ± 6.989
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean −338.9
Std Dev 0
1
0.5
0
−0.5
−1

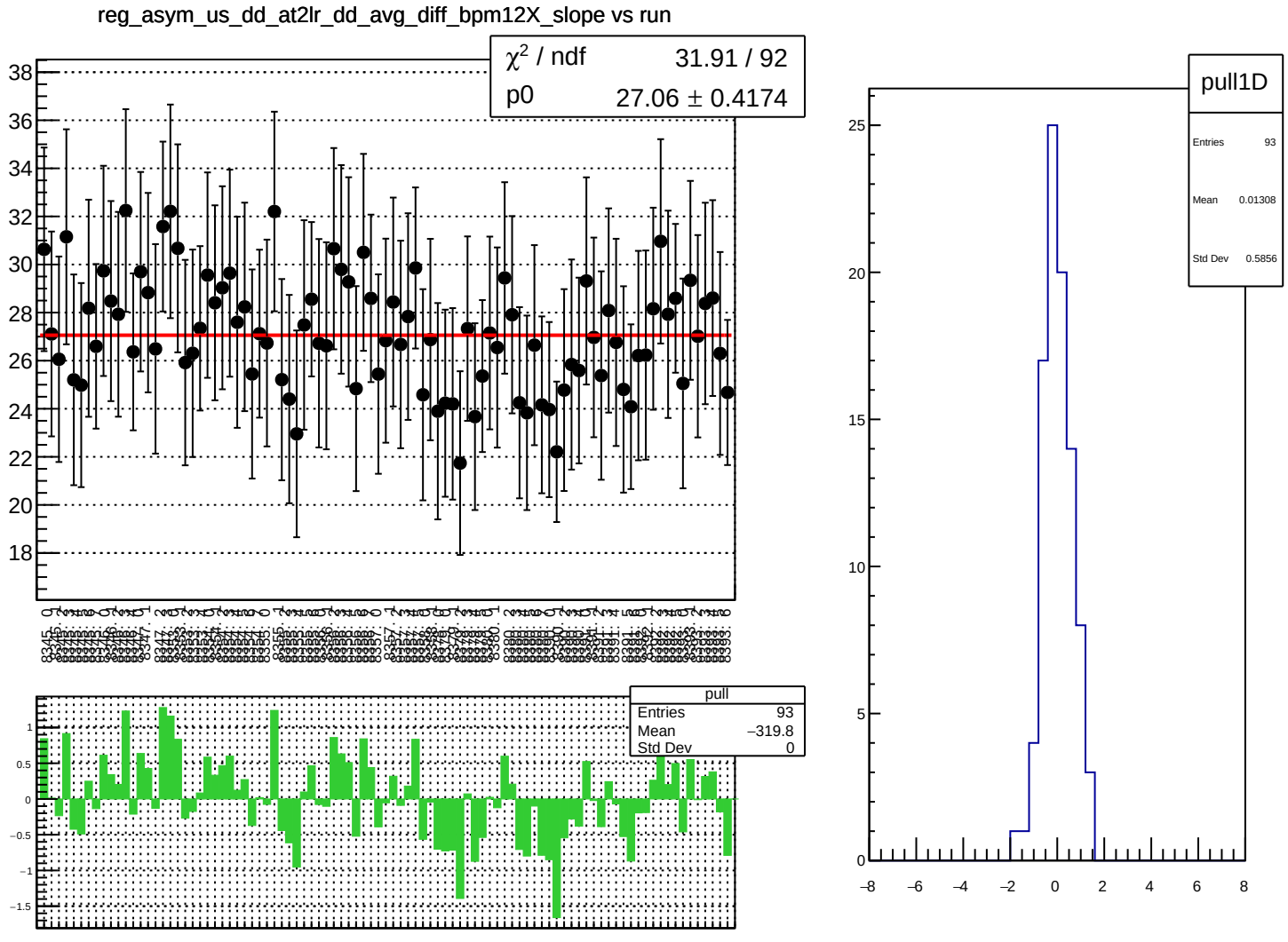

pull1D
Entries 93
Mean −0.00596
Std Dev 0.4689
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

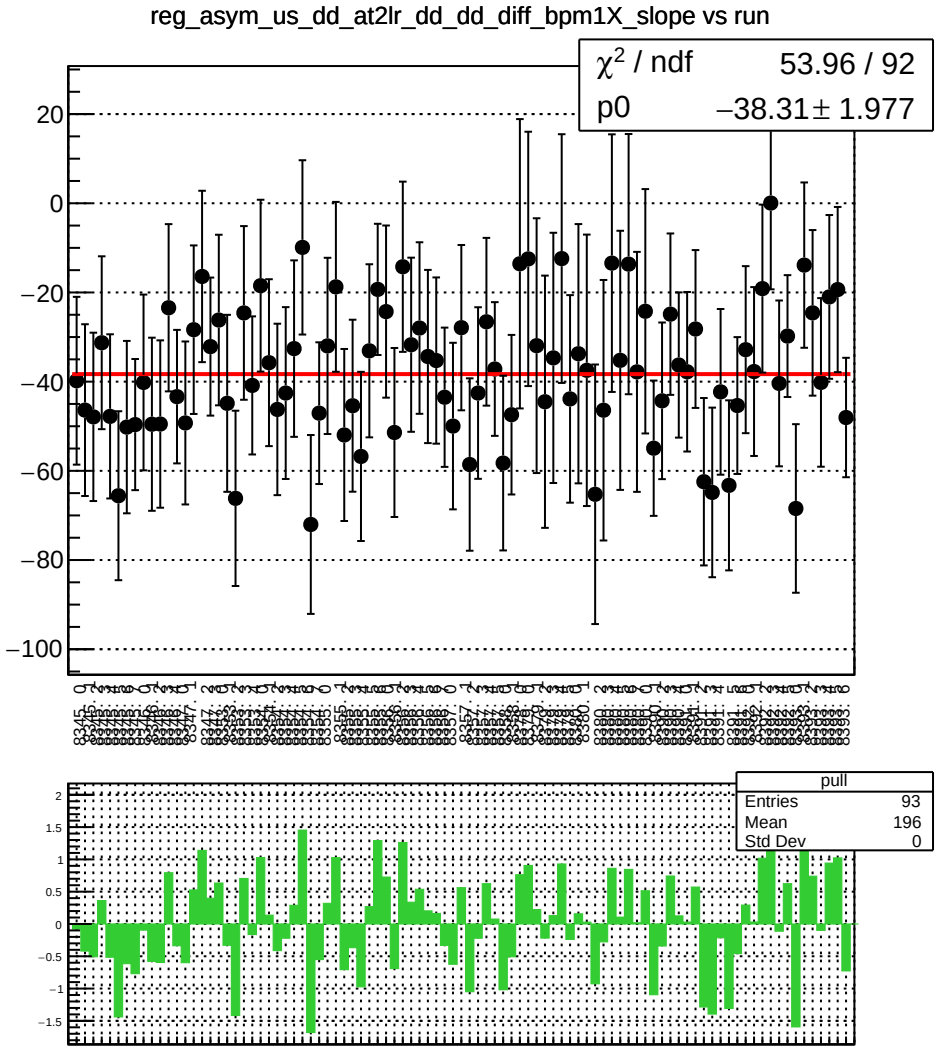

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 25.48 / 92
p0 −192.9 ± 4.401
pull
Entries 93
Mean 764.4
Std Dev 0

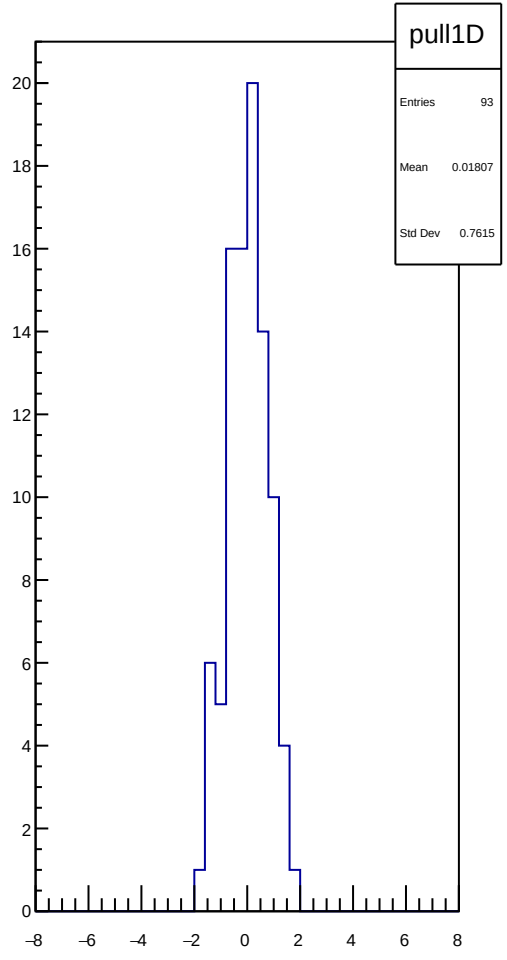

pull1D
Entries 93
Mean 0.004264
Std Dev 0.5234

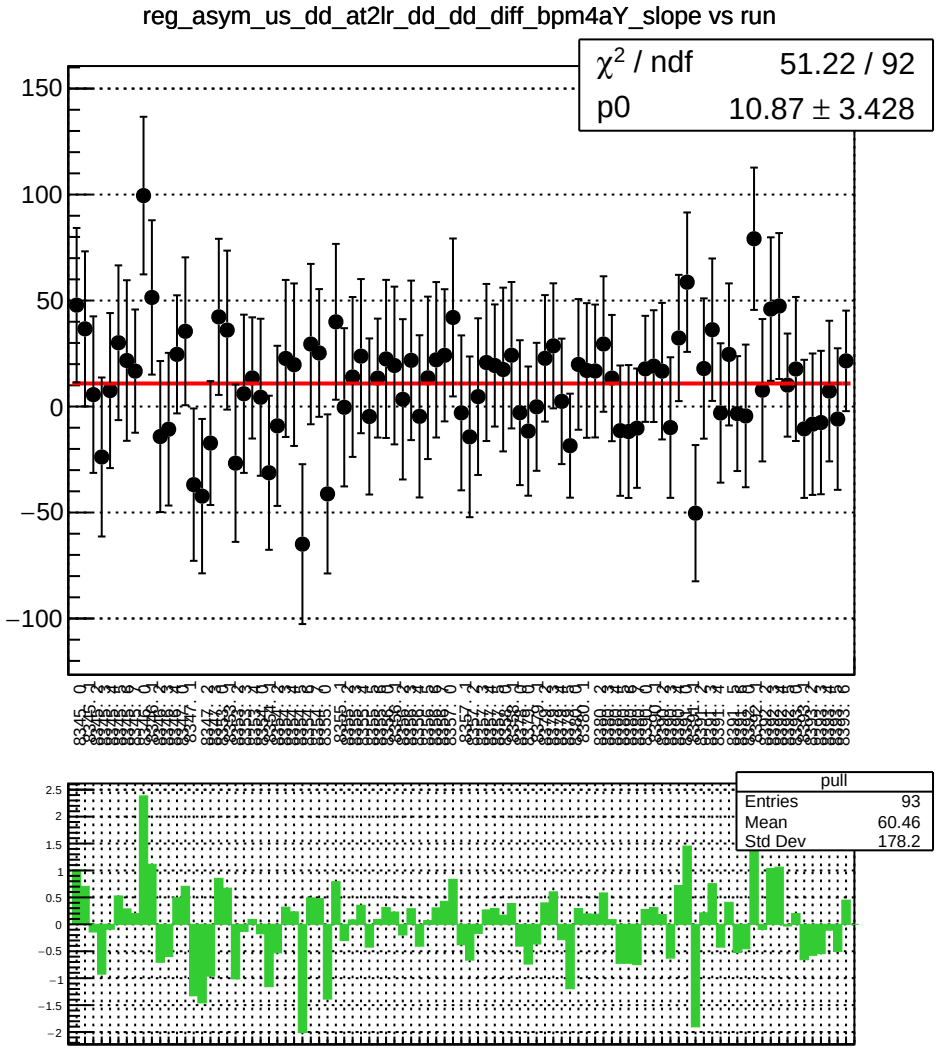

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 20.36 / 92
p0 11.82 ± 7.386
pull
Entries 93
Mean −442.5
Std Dev 0

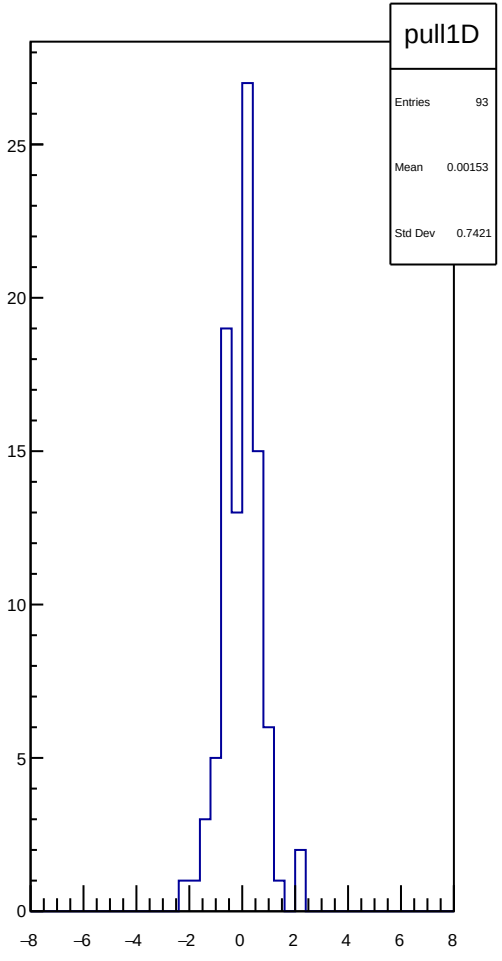

pull1D
Entries 93
Mean 0.004618
Std Dev 0.4679

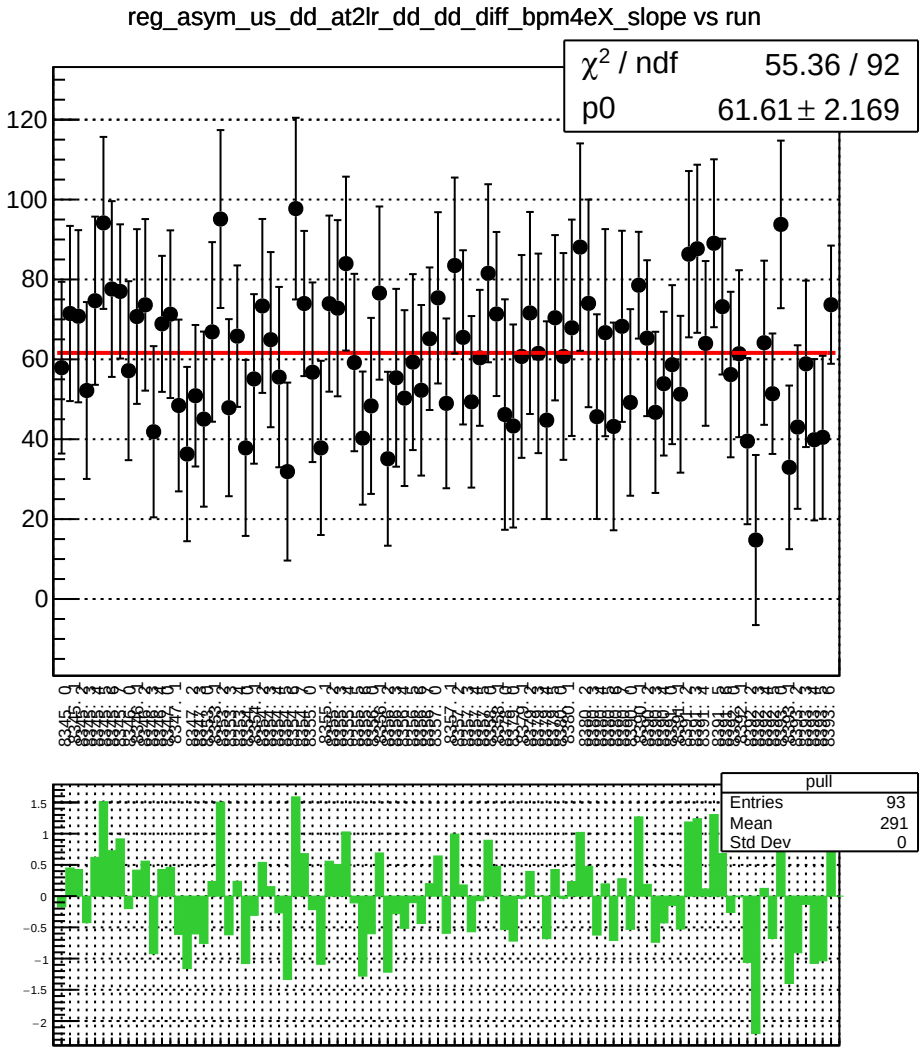

reg_asym_us_dd_at2lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 31.91 / 92
p0 27.06 ± 0.4174
pull
Entries 93
Mean −319.8
Std Dev 0
pull1D
Entries 93
Mean 0.01308
Std Dev 0.5856

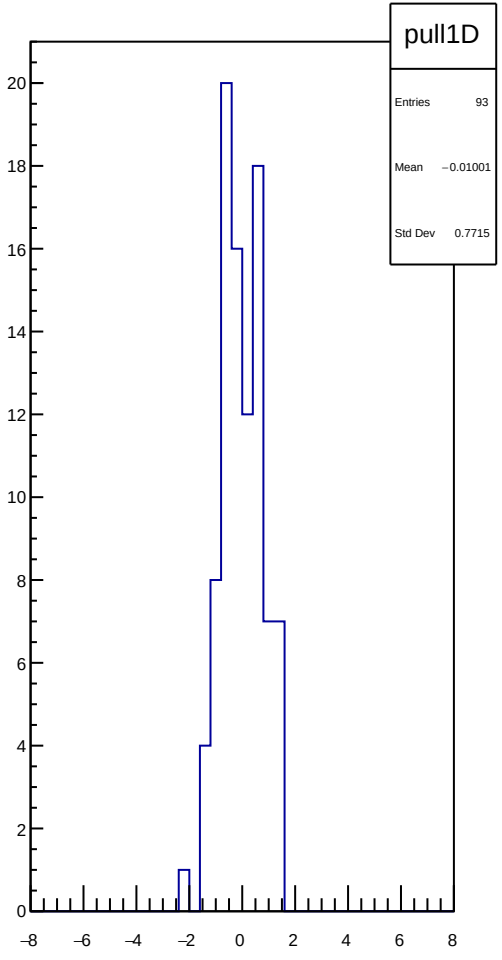

reg_asym_us_dd_at2lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 53.96 / 92
p0 −38.31 ± 1.977
pull
Entries 93
Mean 196
Std Dev 0

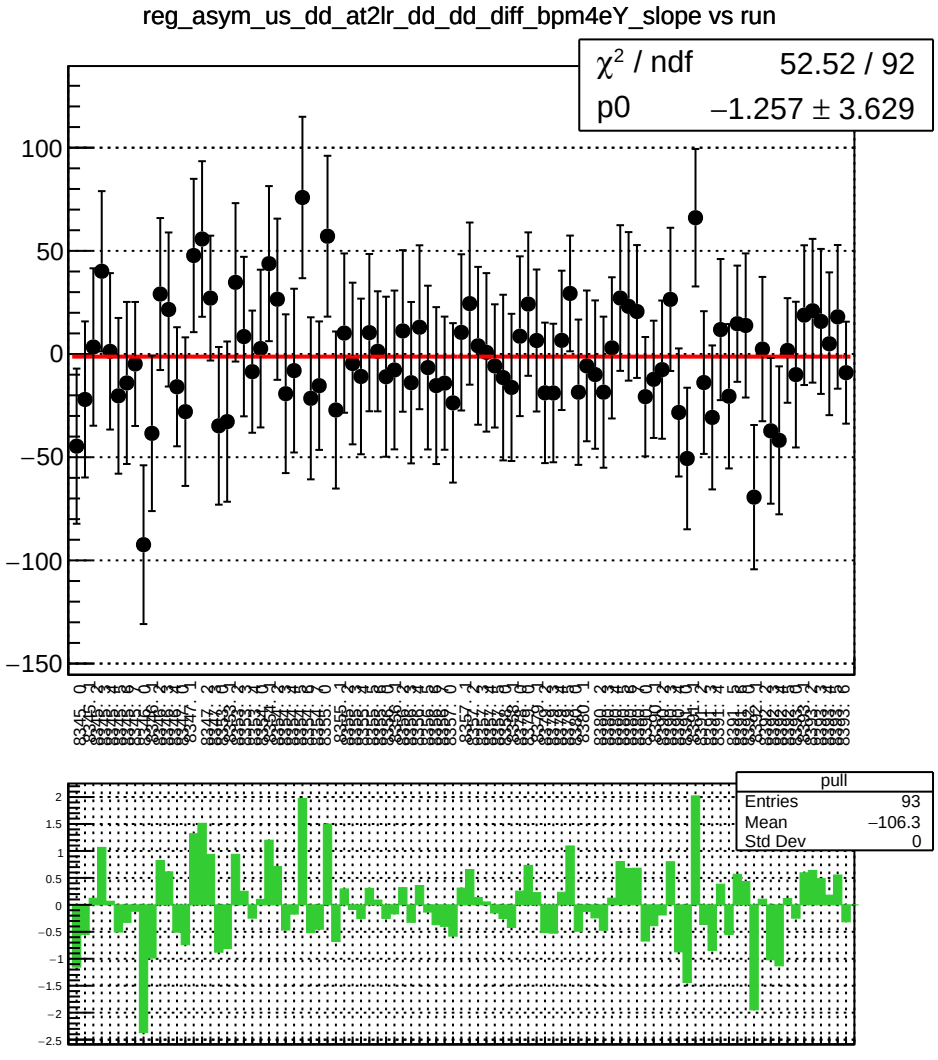

pull1D
Entries 93
Mean 0.01807
Std Dev 0.7615

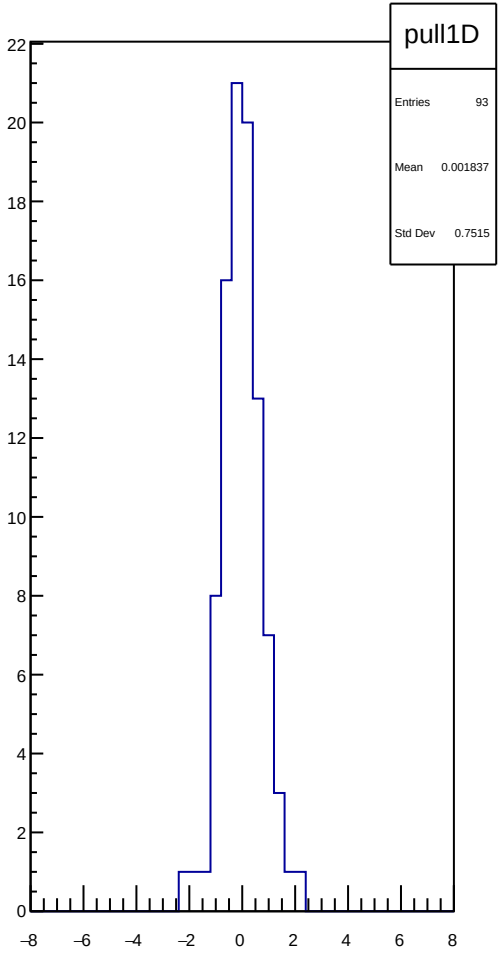

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 51.22 / 92
p0 10.87 ± 3.428
150
100
50
0
−50
−100
pull
Entries 93
Mean 60.46
Std Dev 178.2
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

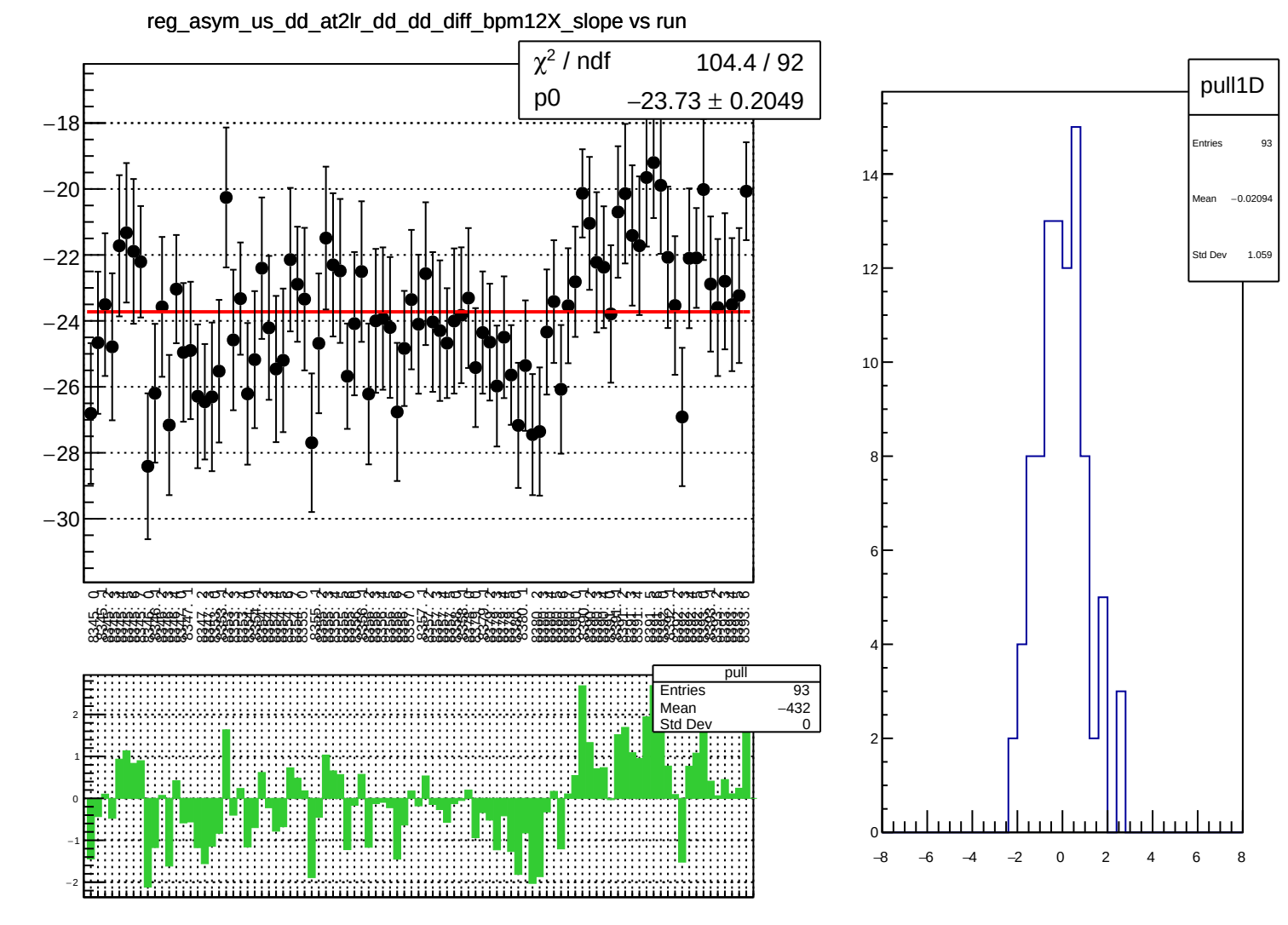

pull1D
Entries 93
Mean 0.00153
Std Dev 0.7421
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

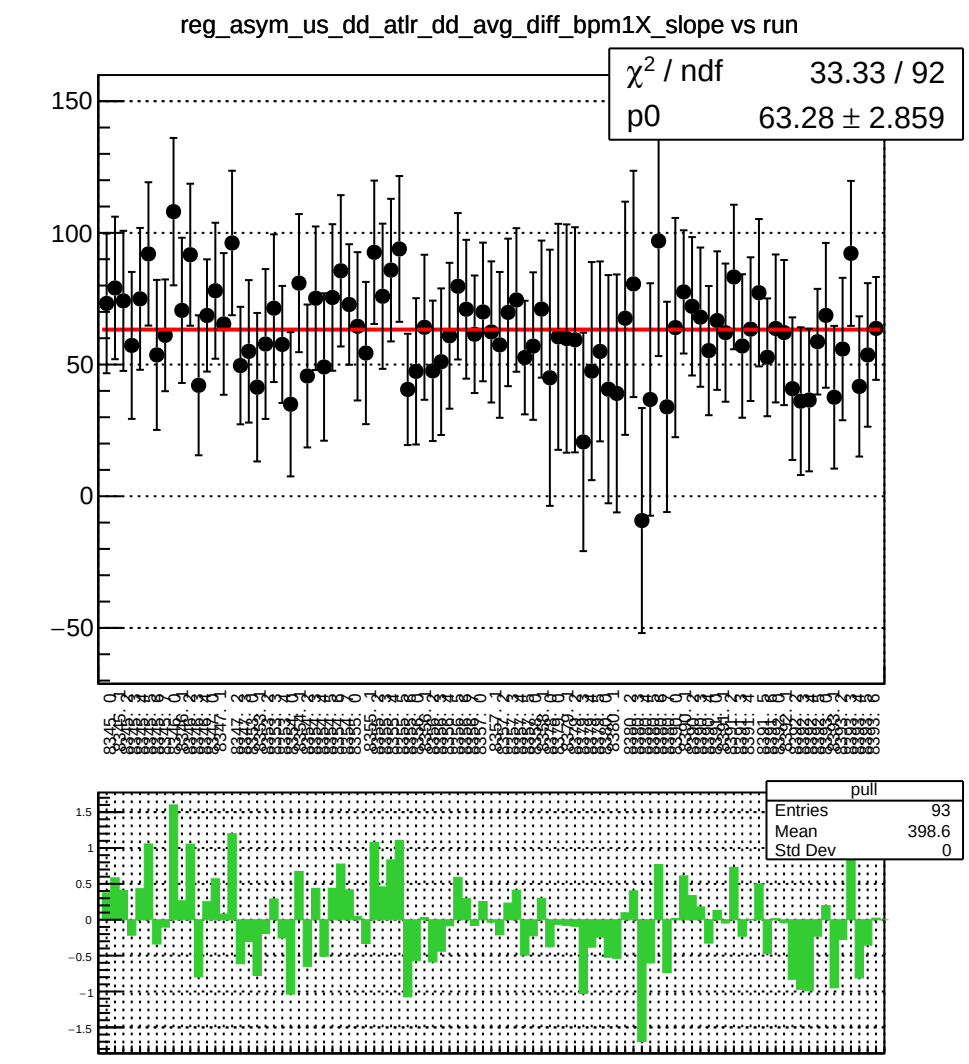

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 55.36 / 92
p0 61.61 ± 2.169
pull
Entries 93
Mean 291
Std Dev 0

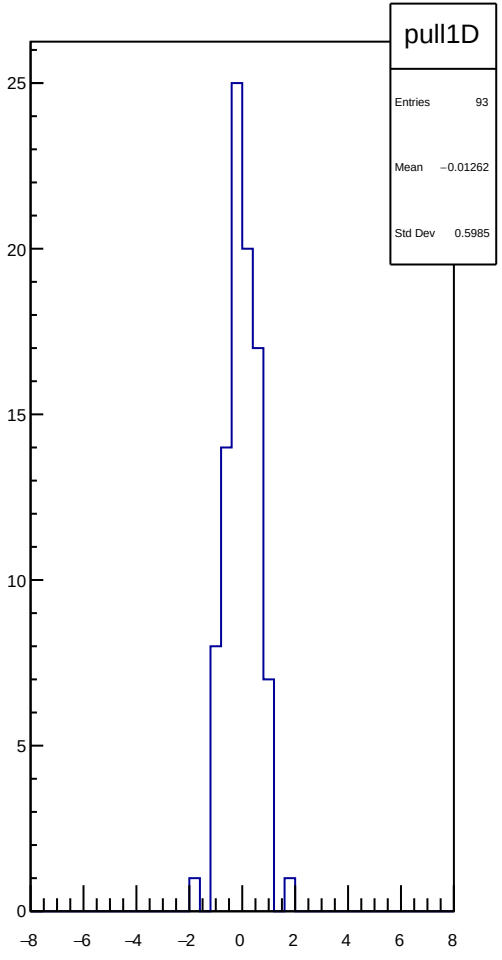

pull1D
Entries 93
Mean −0.01001
Std Dev 0.7715

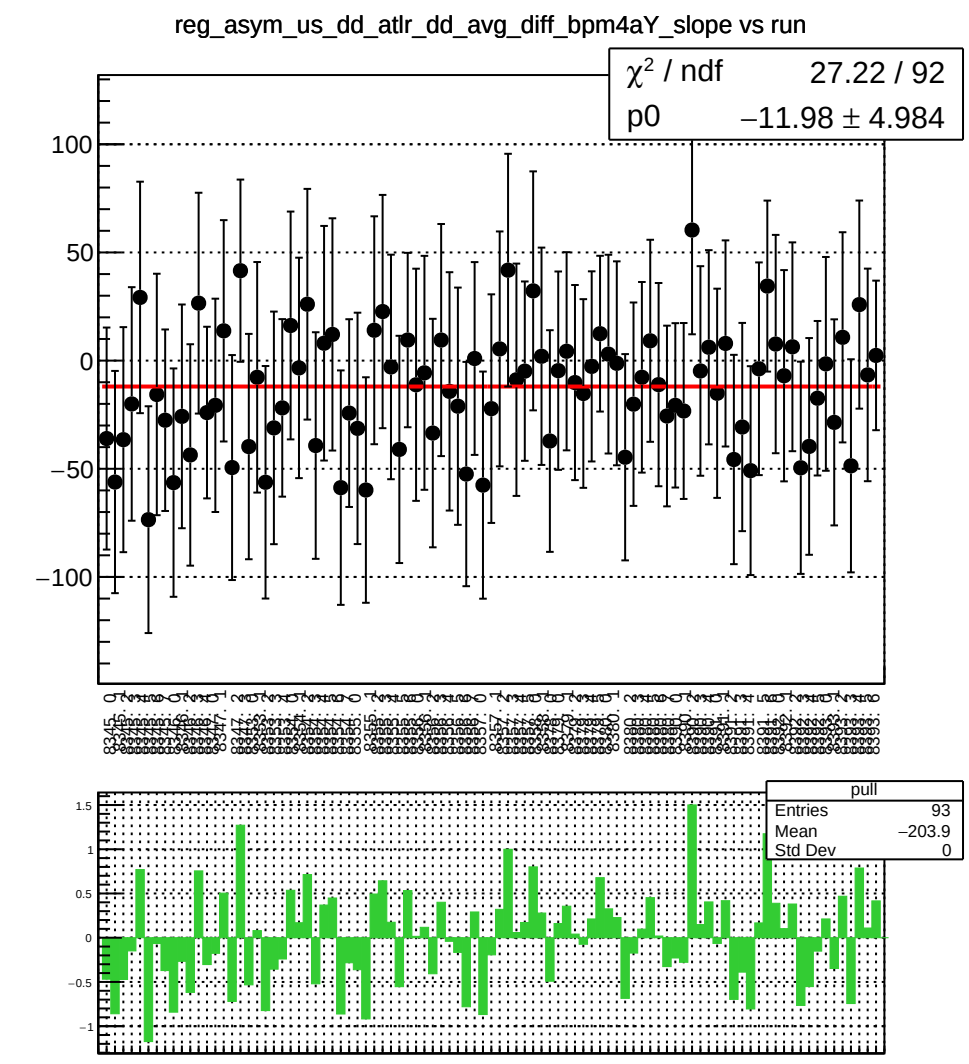

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 52.52 / 92
p0 −1.257 ± 3.629
pull
Entries 93
Mean −106.3
Std Dev 0

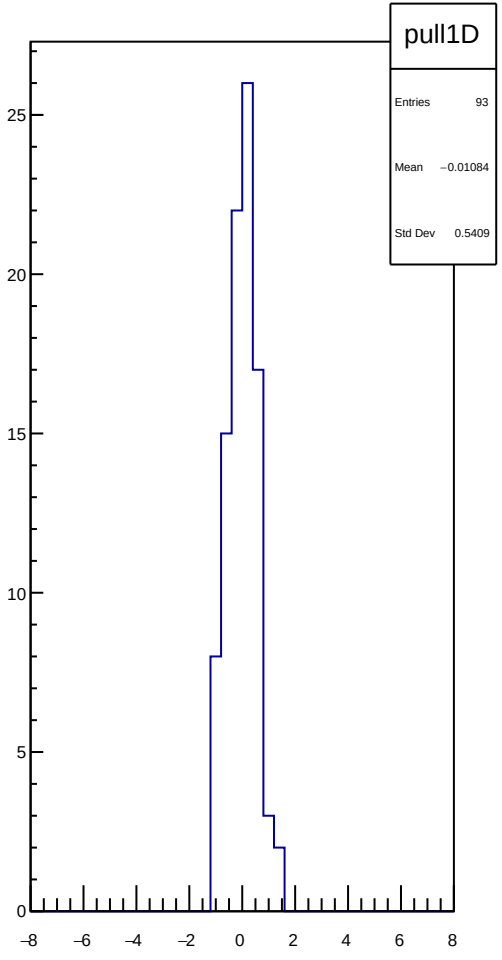

pull1D
Entries 93
Mean 0.001837
Std Dev 0.7515

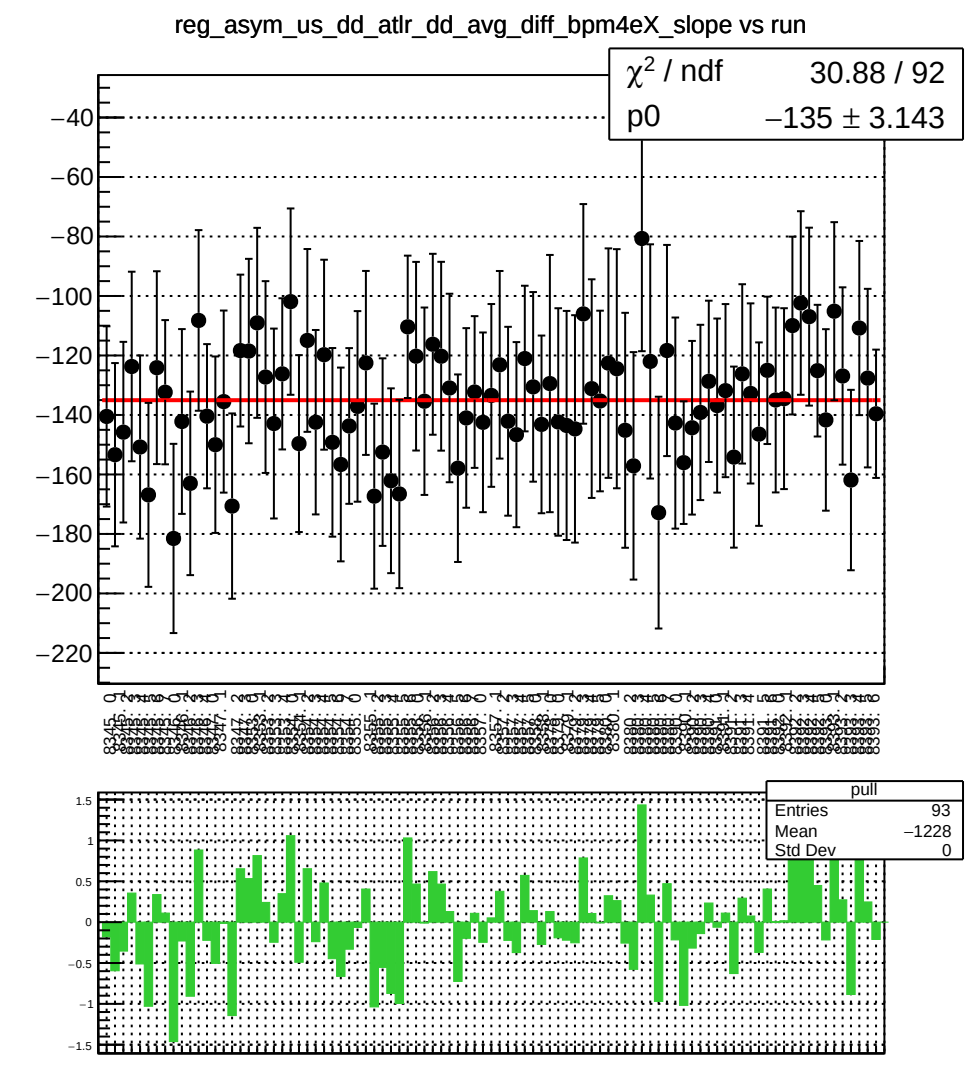

reg_asym_us_dd_at2lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 104.4 / 92
p0 −23.73 ± 0.2049
−18
−20
−22
−24
−26
−28
−30
pull
Entries 93
Mean −432
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.02094
Std Dev 1.059
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

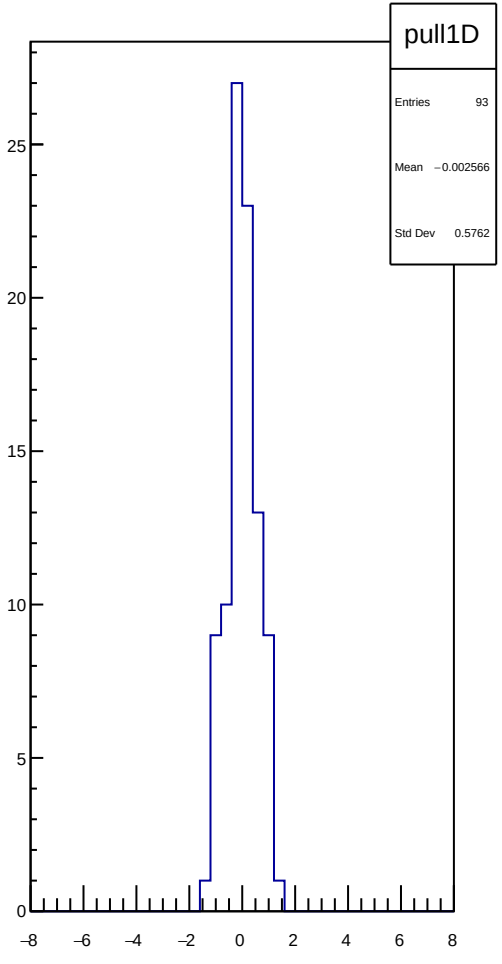

reg_asym_us_dd_atlr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 33.33 / 92
p0 63.28 ± 2.859
150
100
50
0
−50
pull
Entries 93
Mean 398.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

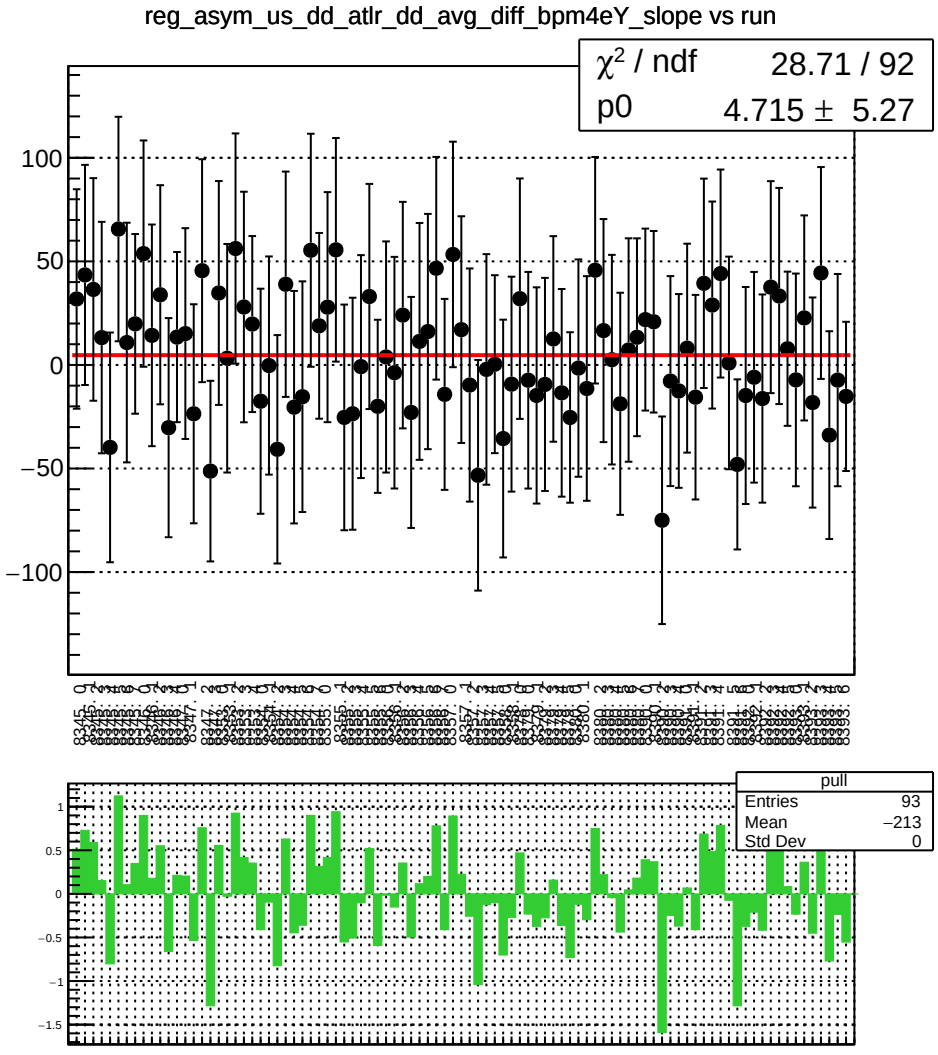

pull1D
Entries 93
Mean −0.01262
Std Dev 0.5985
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

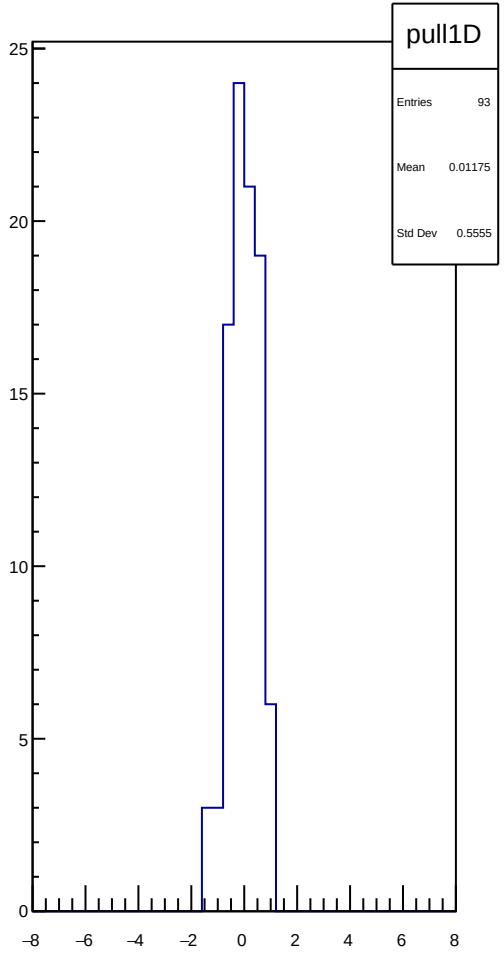

reg_asym_us_dd_atlr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 27.22 / 92
p0 −11.98 ± 4.984
100
50
0
−50
−100
pull
Entries 93
Mean −203.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1

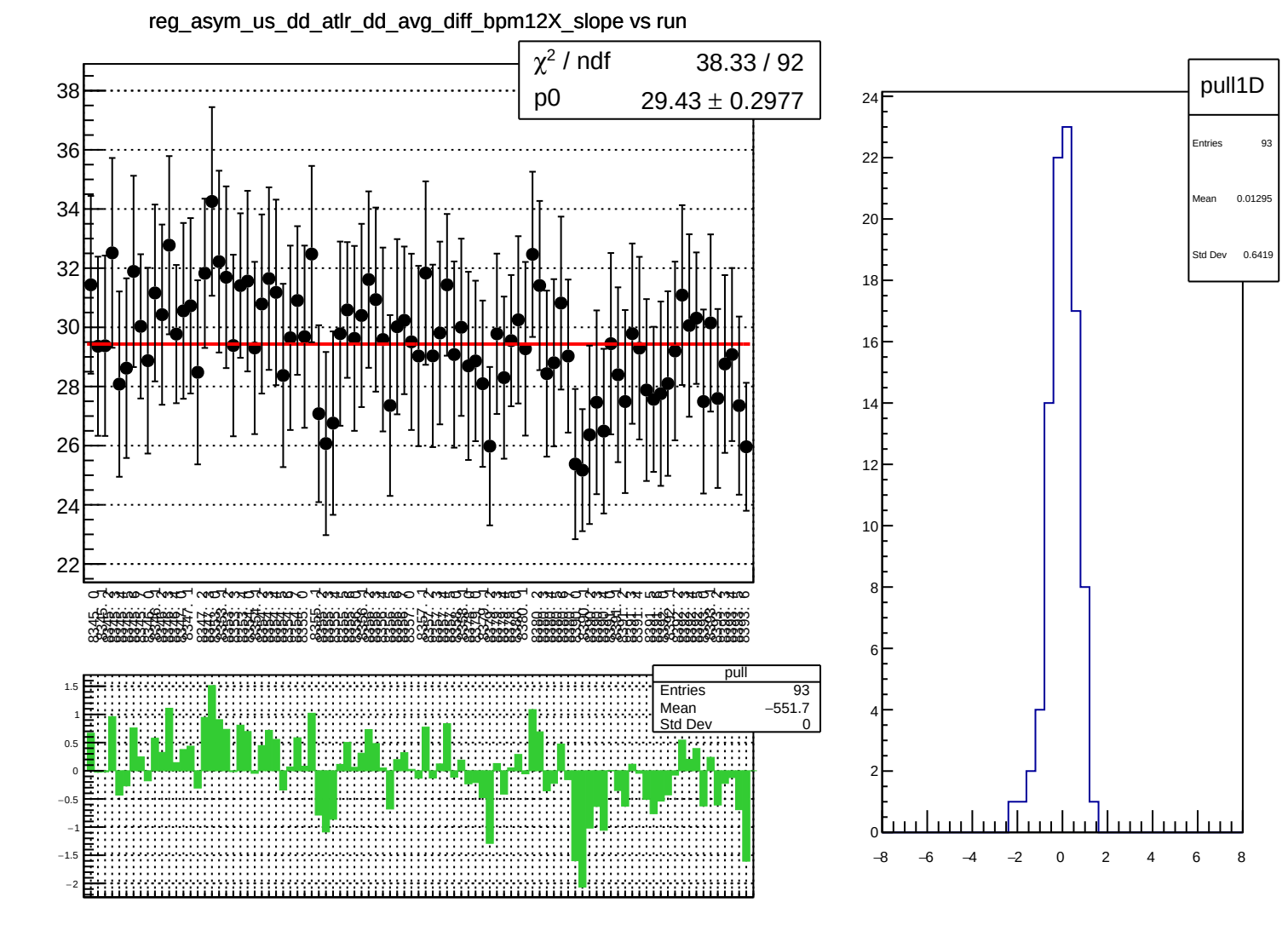

pull1D
Entries 93
Mean −0.01084
Std Dev 0.5409
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

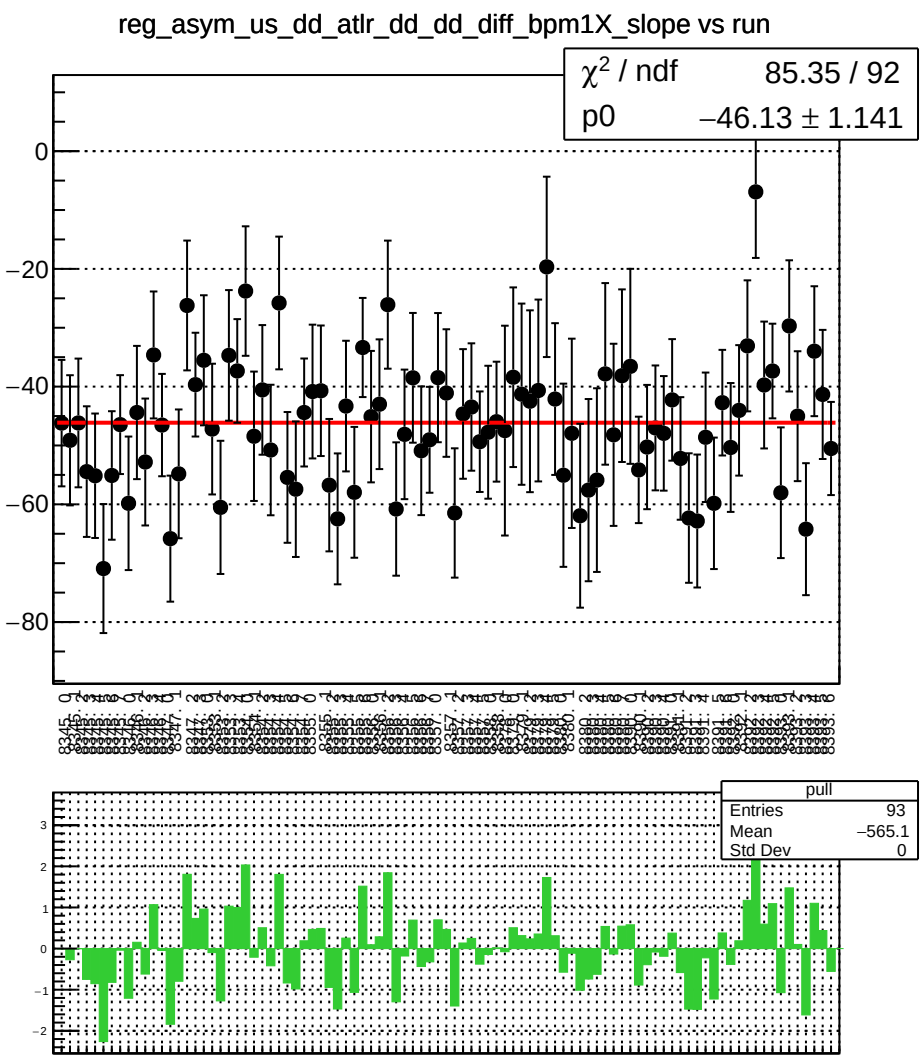

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 30.88 / 92
p0 −135 ± 3.143
pull
Entries 93
Mean −1228
Std Dev 0

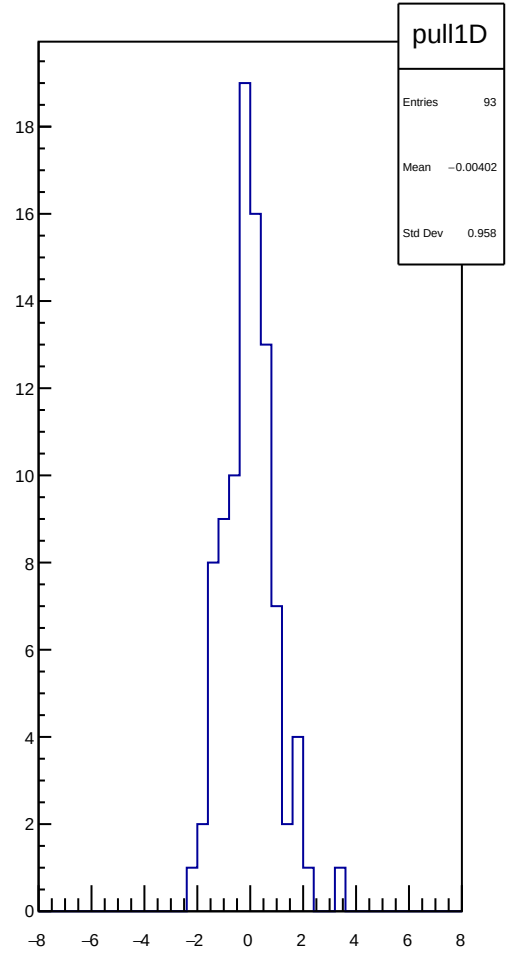

pull1D
Entries 93
Mean −0.002566
Std Dev 0.5762

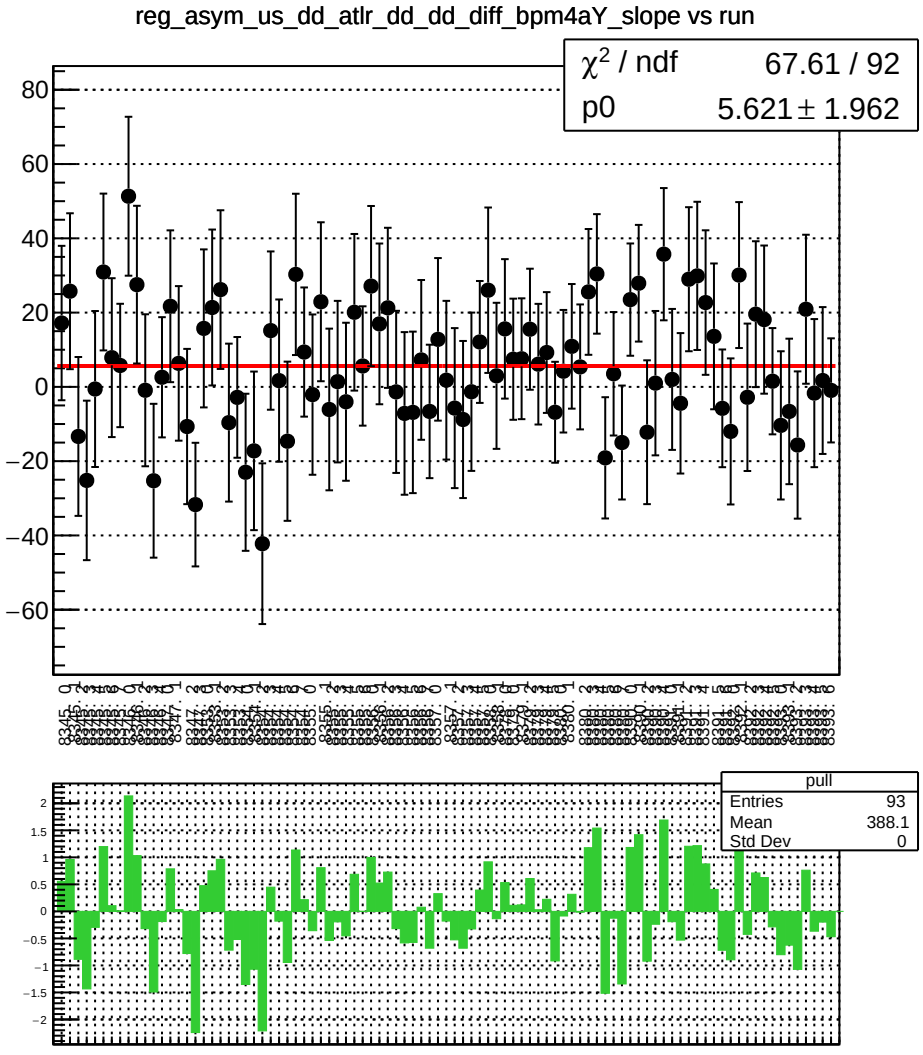

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 28.71 / 92
p0 4.715 ± 5.27
100
50
0
−50
−100
pull
Entries 93
Mean −213
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

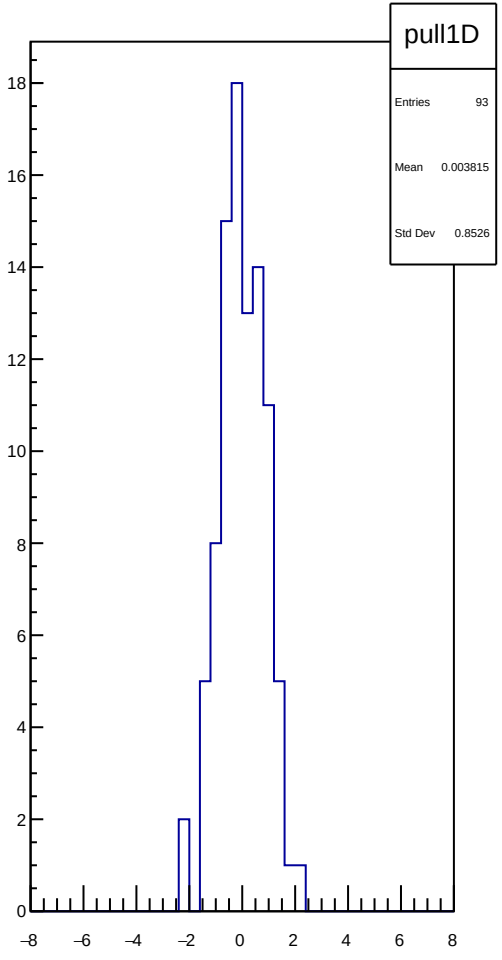

pull1D
Entries 93
Mean 0.01175
Std Dev 0.5555
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

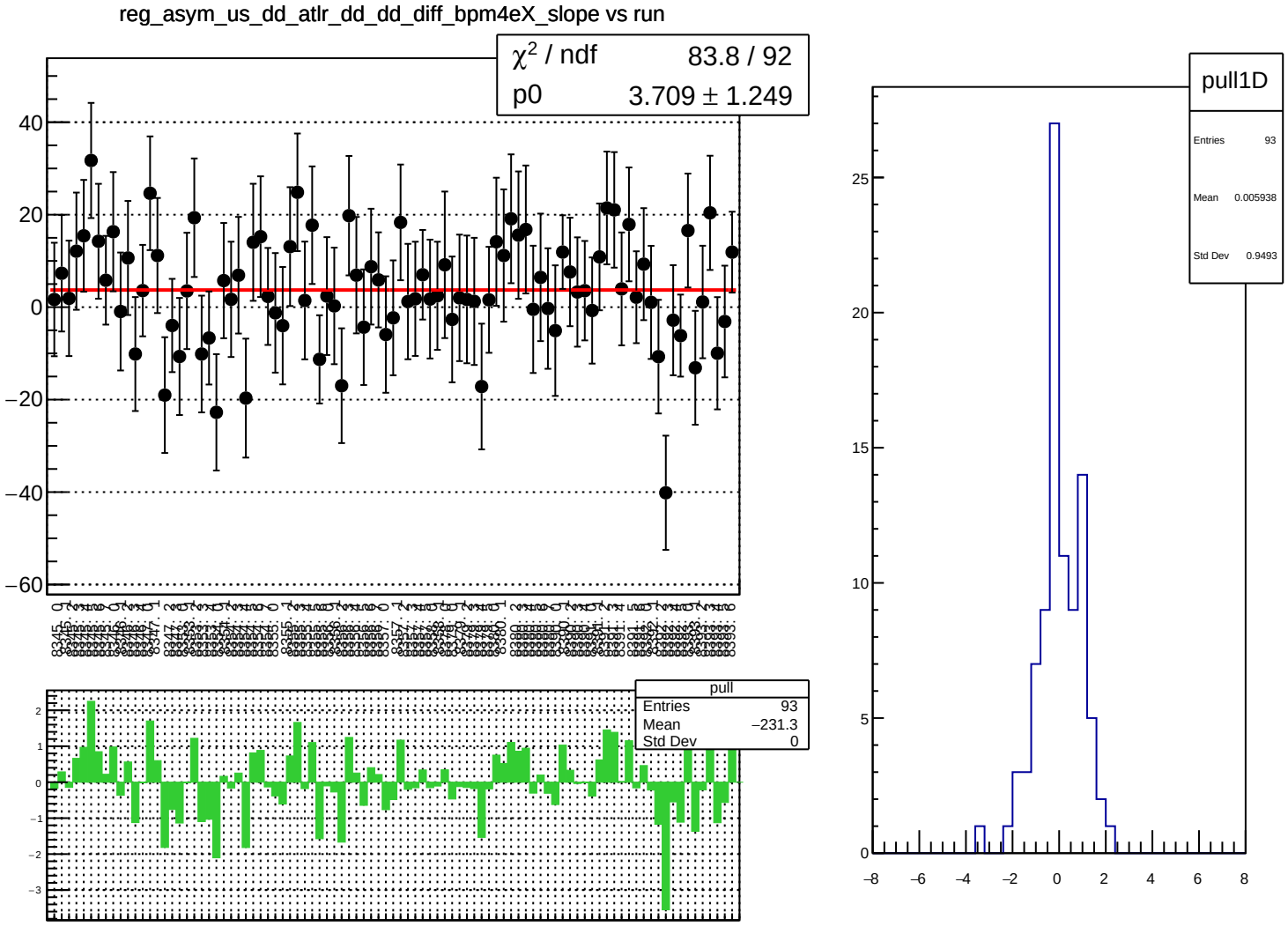

reg_asym_us_dd_atlr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 38.33 / 92
p0 29.43 ± 0.2977
pull
Entries 93
Mean −551.7
Std Dev 0
pull1D
Entries 93
Mean 0.01295
Std Dev 0.6419

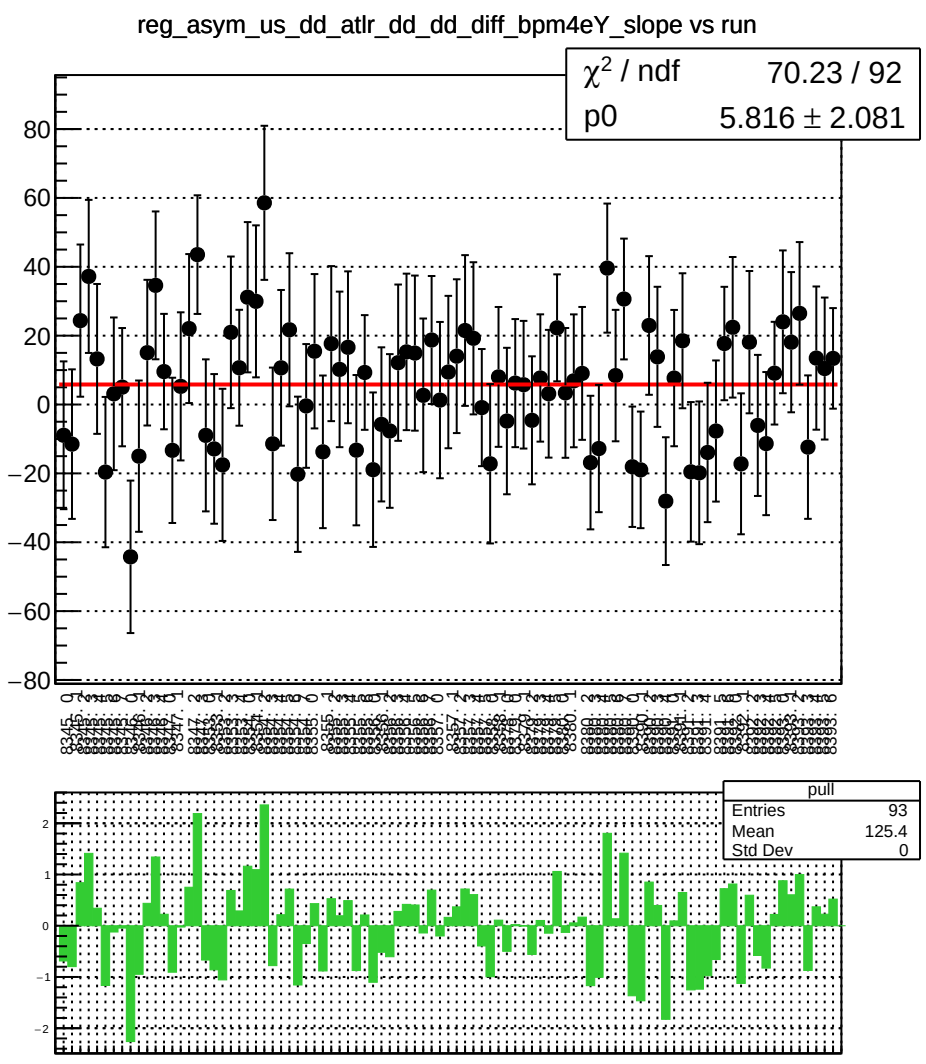

reg_asym_us_dd_atlr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 85.35 / 92
p0 −46.13 ± 1.141
pull
Entries 93
Mean −565.1
Std Dev 0

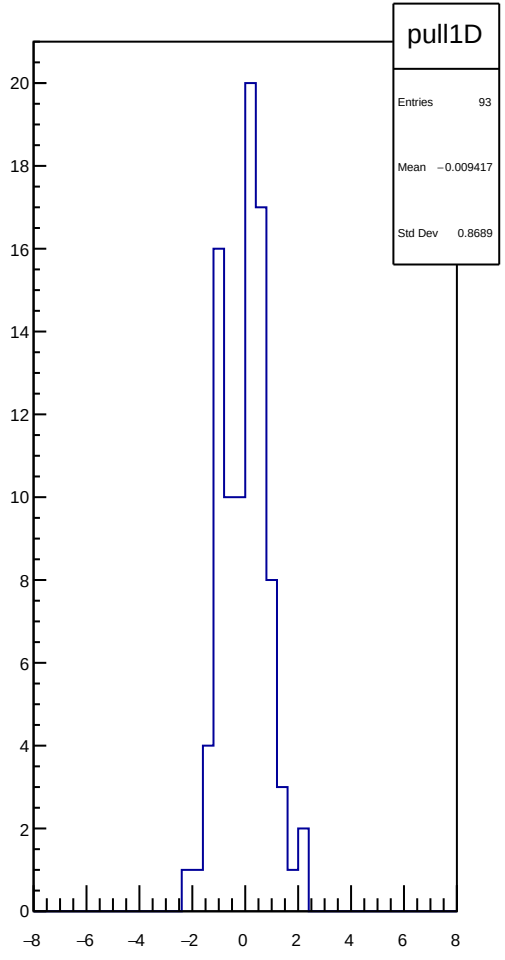

pull1D
Entries 93
Mean −0.00402
Std Dev 0.958

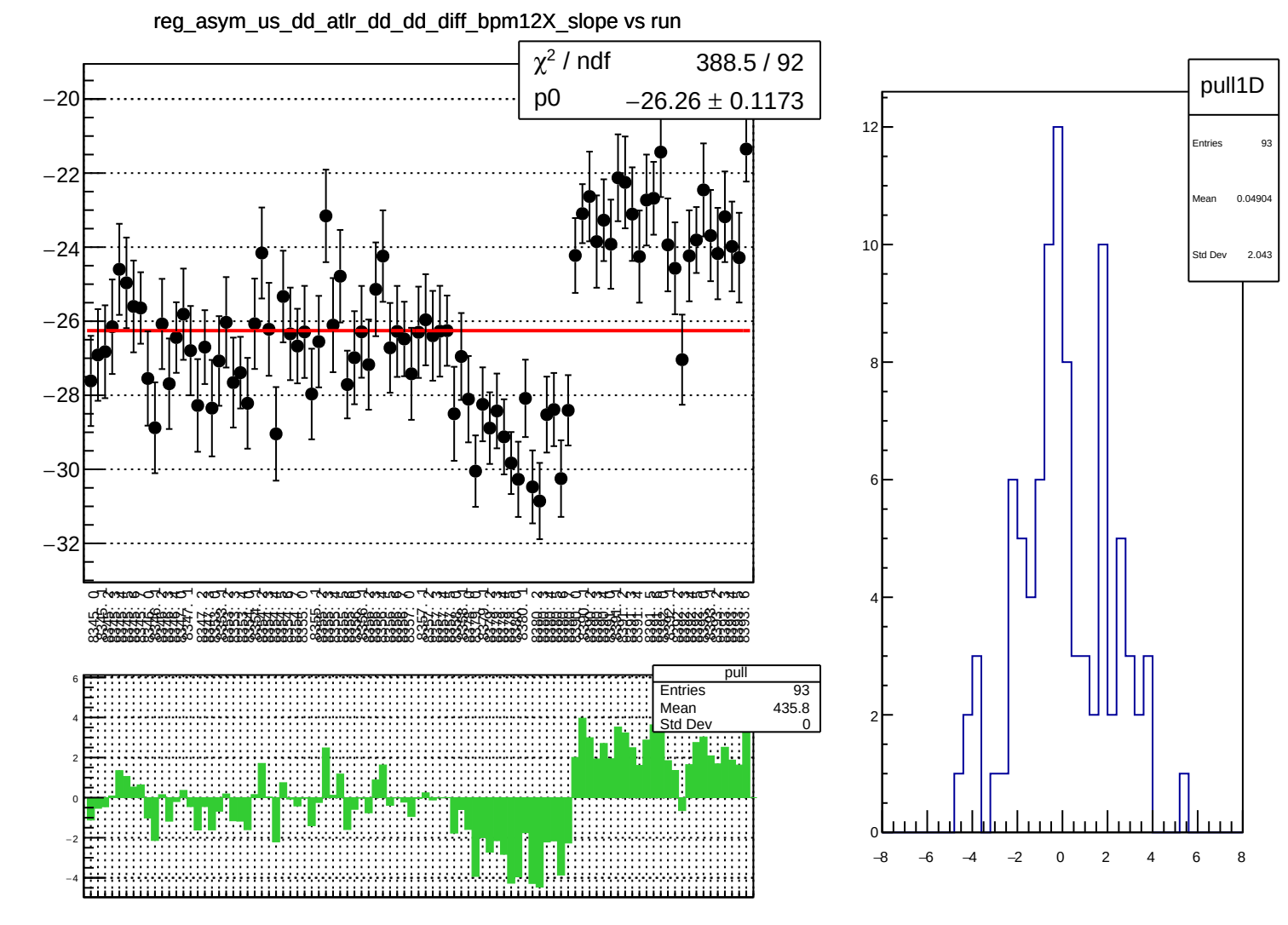

reg_asym_us_dd_atlr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 67.61 / 92
p0 5.621 ± 1.962
pull
Entries 93
Mean 388.1
Std Dev 0

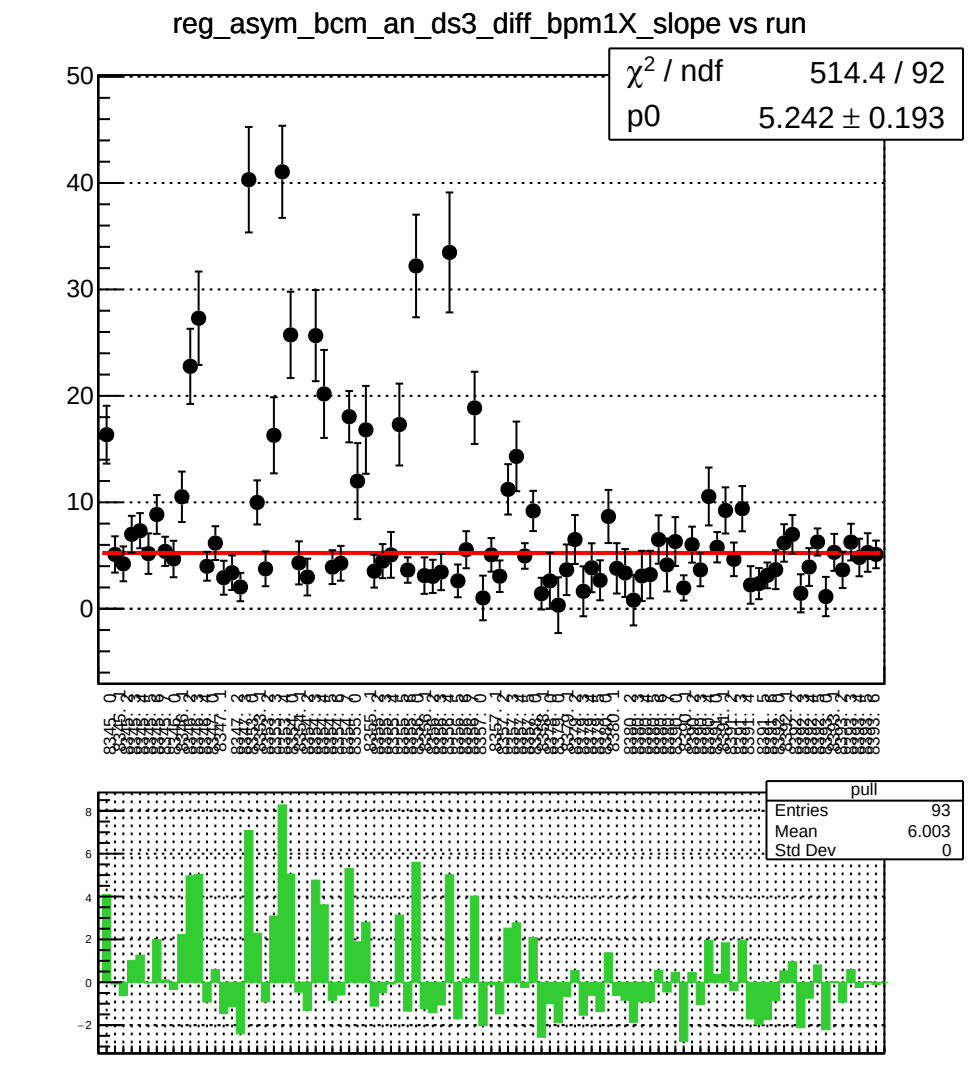

pull1D
Entries 93
Mean 0.003815
Std Dev 0.8526

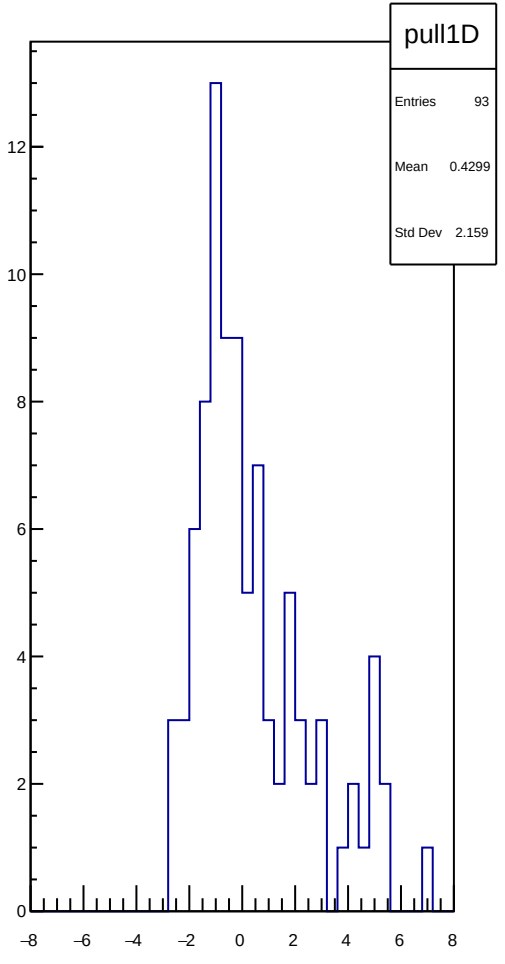

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 83.8 / 92
p0 3.709 ± 1.249
pull
Entries 93
Mean −231.3
Std Dev 0
pull1D
Entries 93
Mean 0.005938
Std Dev 0.9493

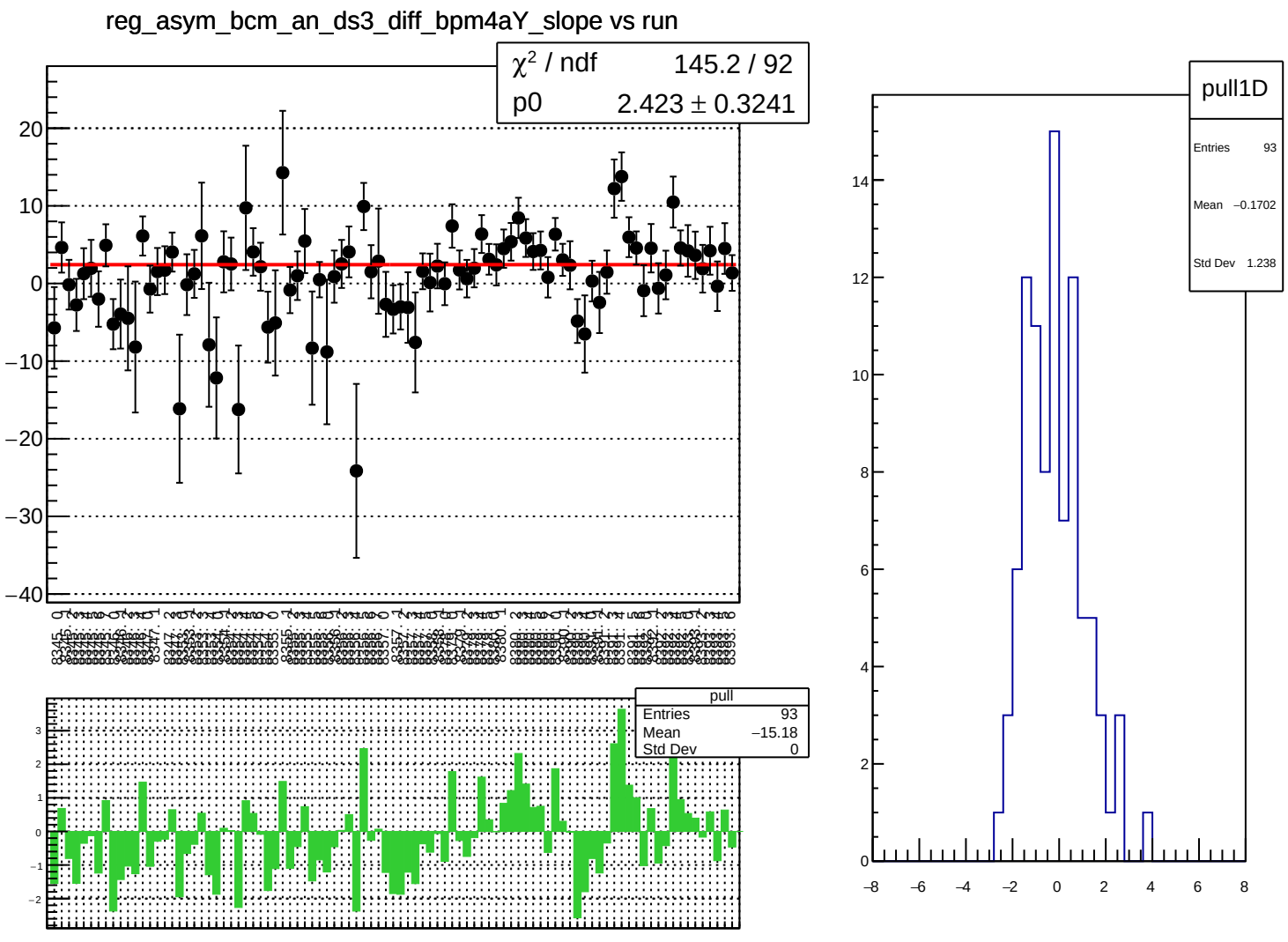

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 70.23 / 92
p0 5.816 ± 2.081
pull
Entries 93
Mean 125.4
Std Dev 0

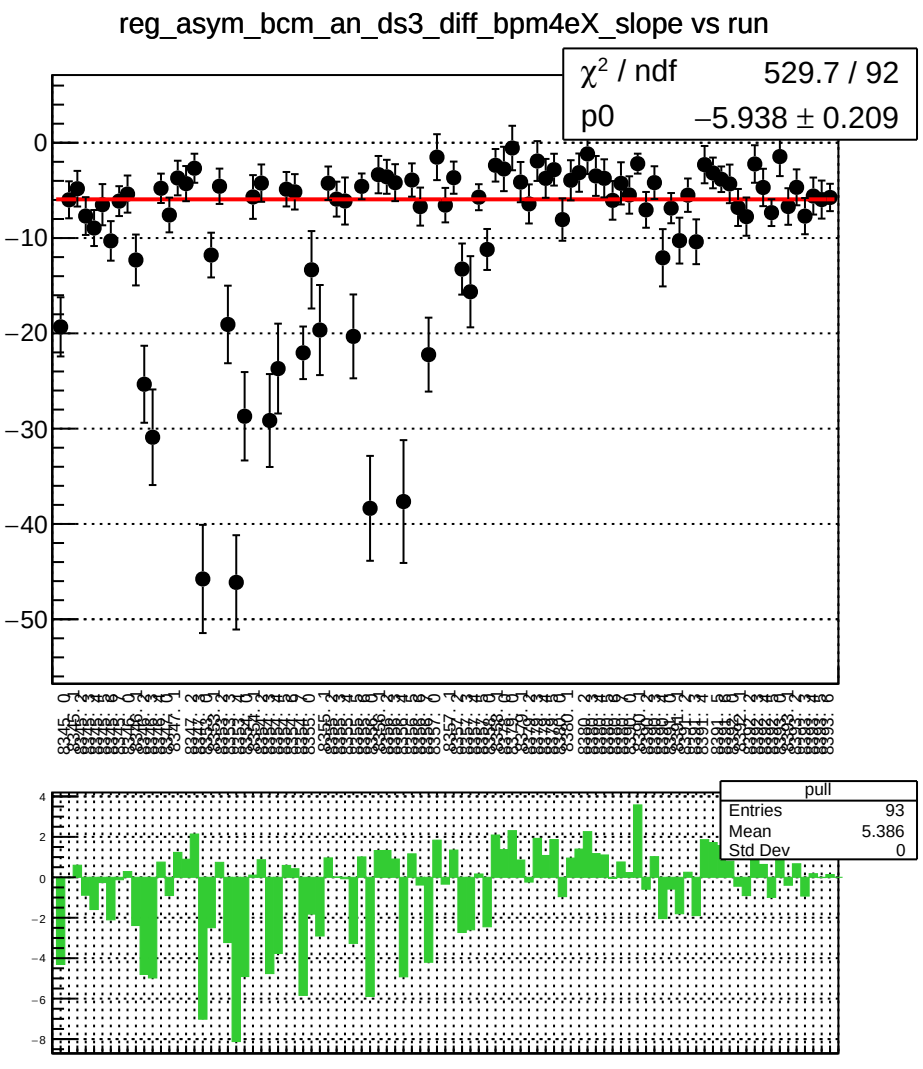

pull1D
Entries 93
Mean −0.009417
Std Dev 0.8689

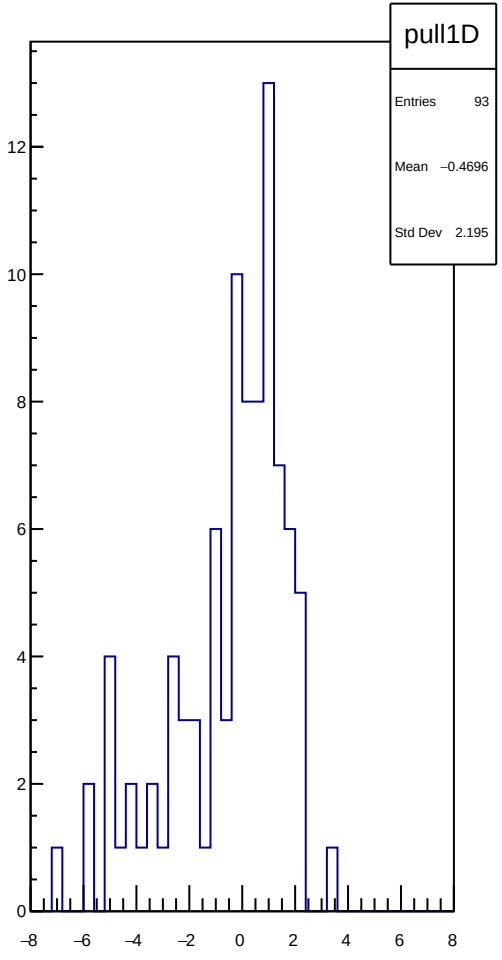

reg_asym_us_dd_atlr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 388.5 / 92
p0 −26.26 ± 0.1173
pull
Entries 93
Mean 435.8
Std Dev 0
pull1D
Entries 93
Mean 0.04904
Std Dev 2.043

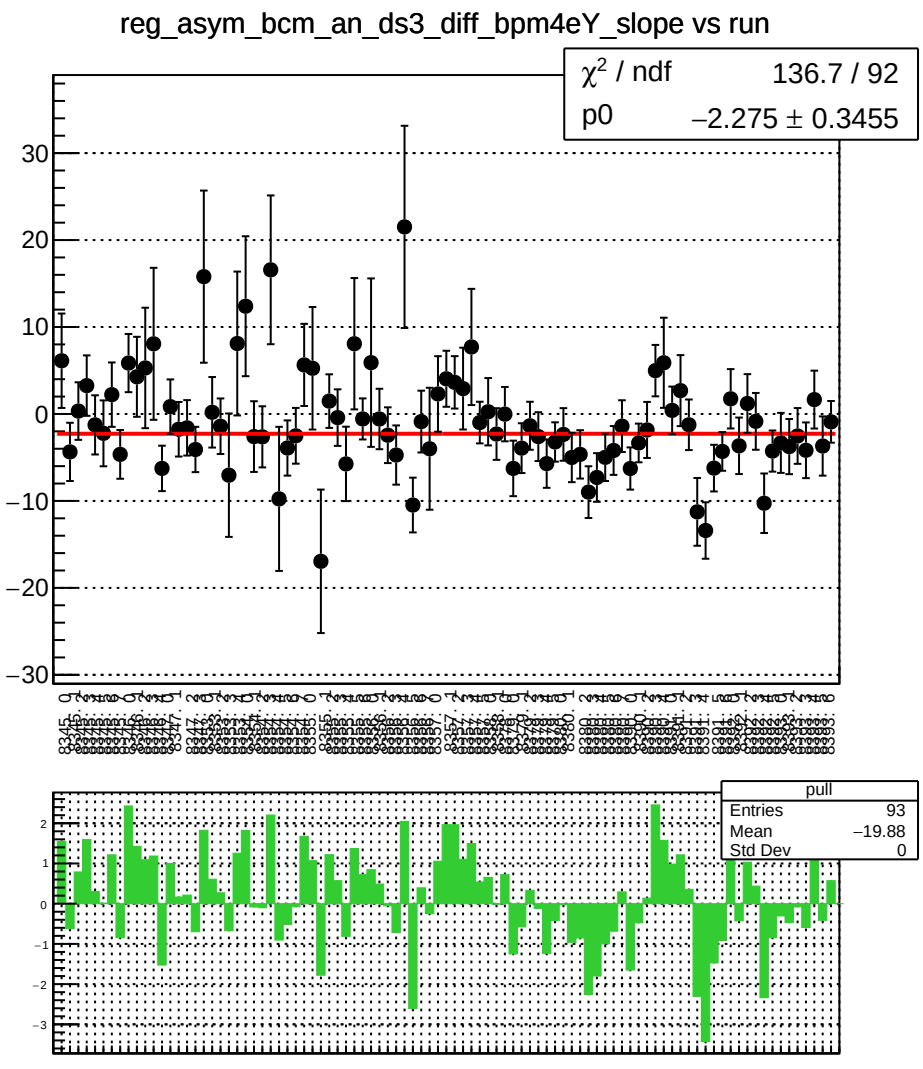

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 514.4 / 92
p0 5.242 ± 0.193
pull
Entries 93
Mean 6.003
Std Dev 0

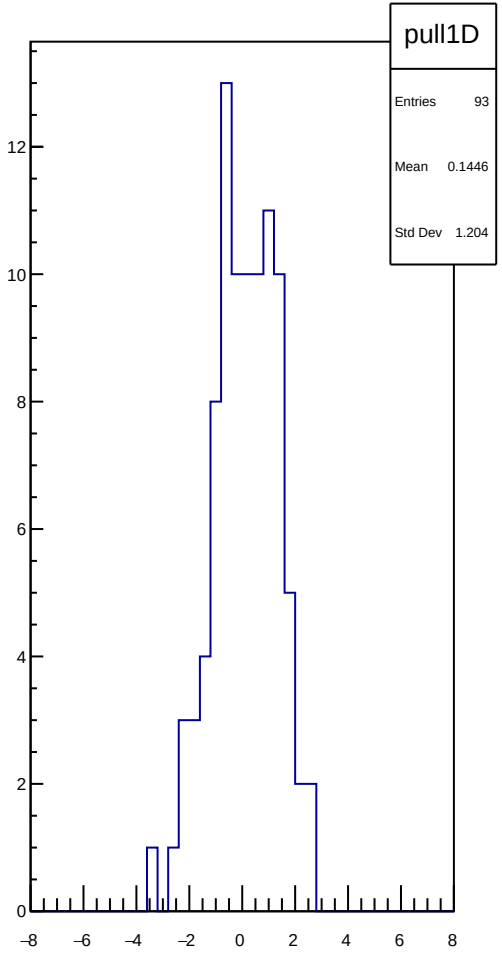

pull1D
Entries 93
Mean 0.4299
Std Dev 2.159

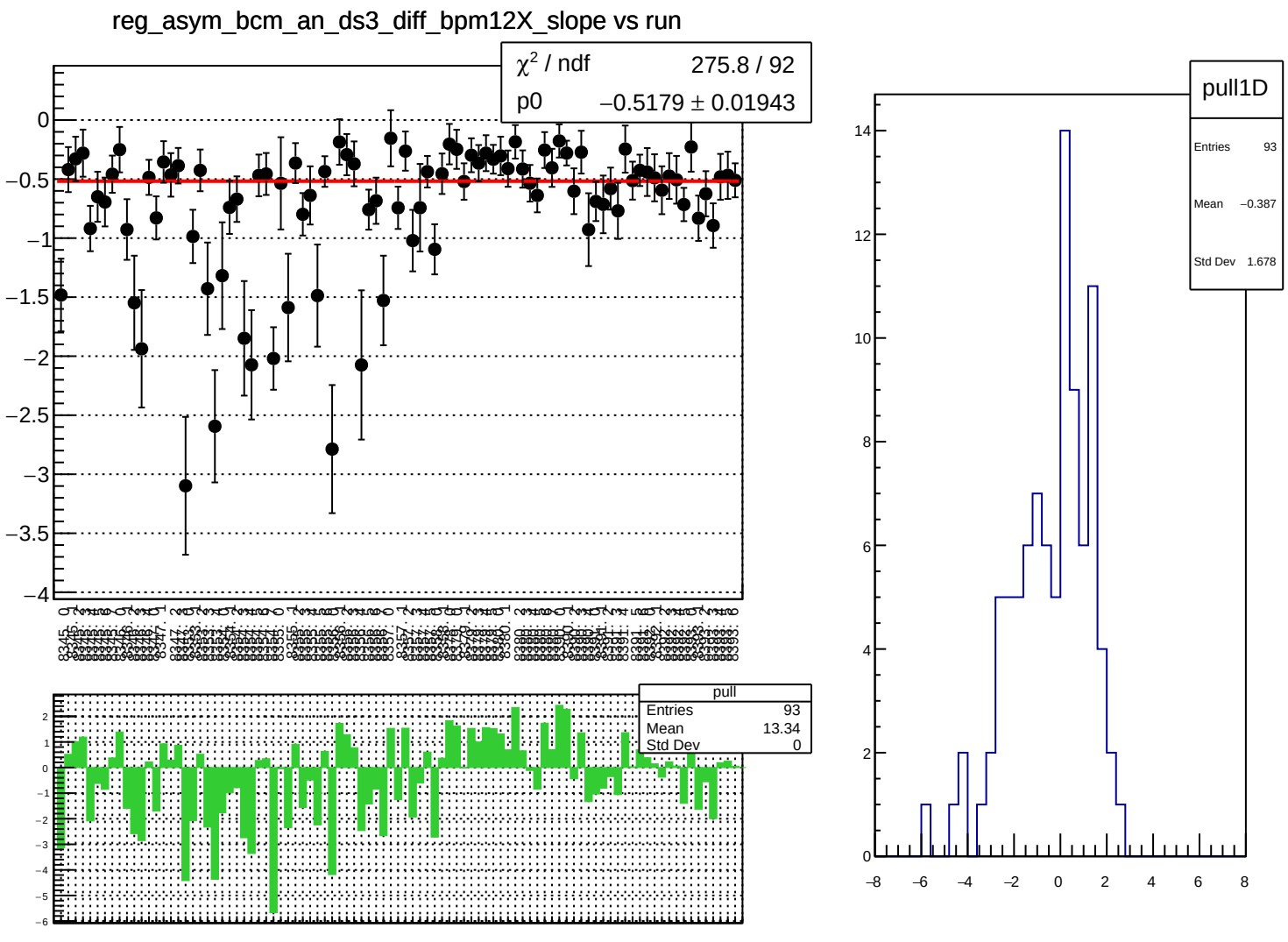

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 145.2 / 92
p0 2.423 ± 0.3241
pull
Entries 93
Mean −15.18
Std Dev 0
pull1D
Entries 93
Mean −0.1702
Std Dev 1.238

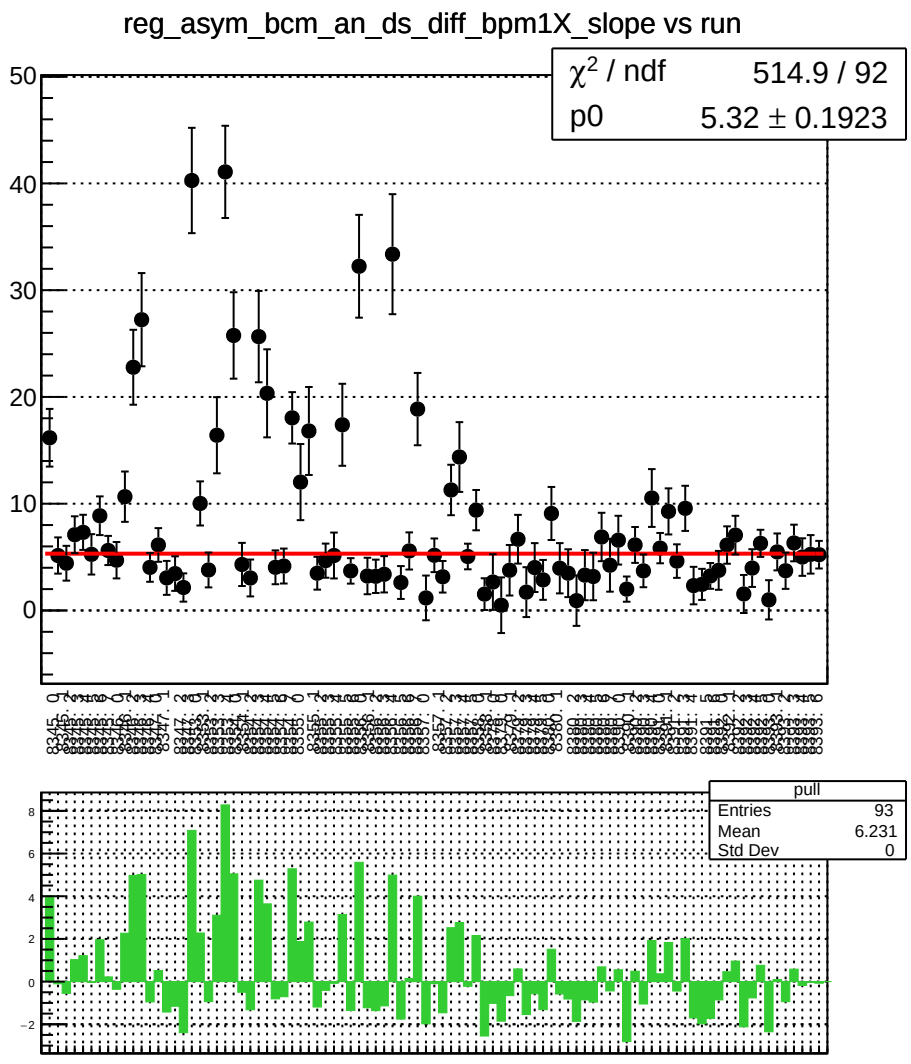

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 529.7 / 92
p0 −5.938 ± 0.209
pull
Entries 93
Mean 5.386
Std Dev 0

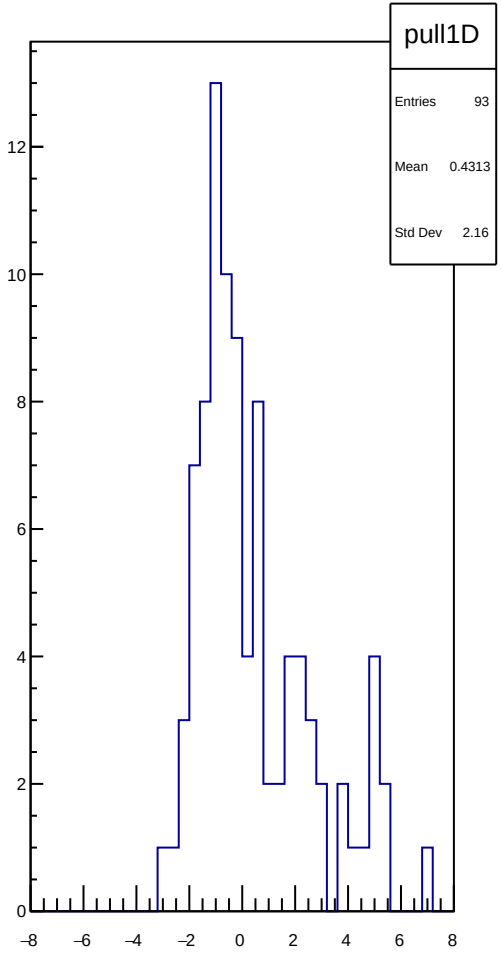

pull1D
Entries 93
Mean −0.4696
Std Dev 2.195

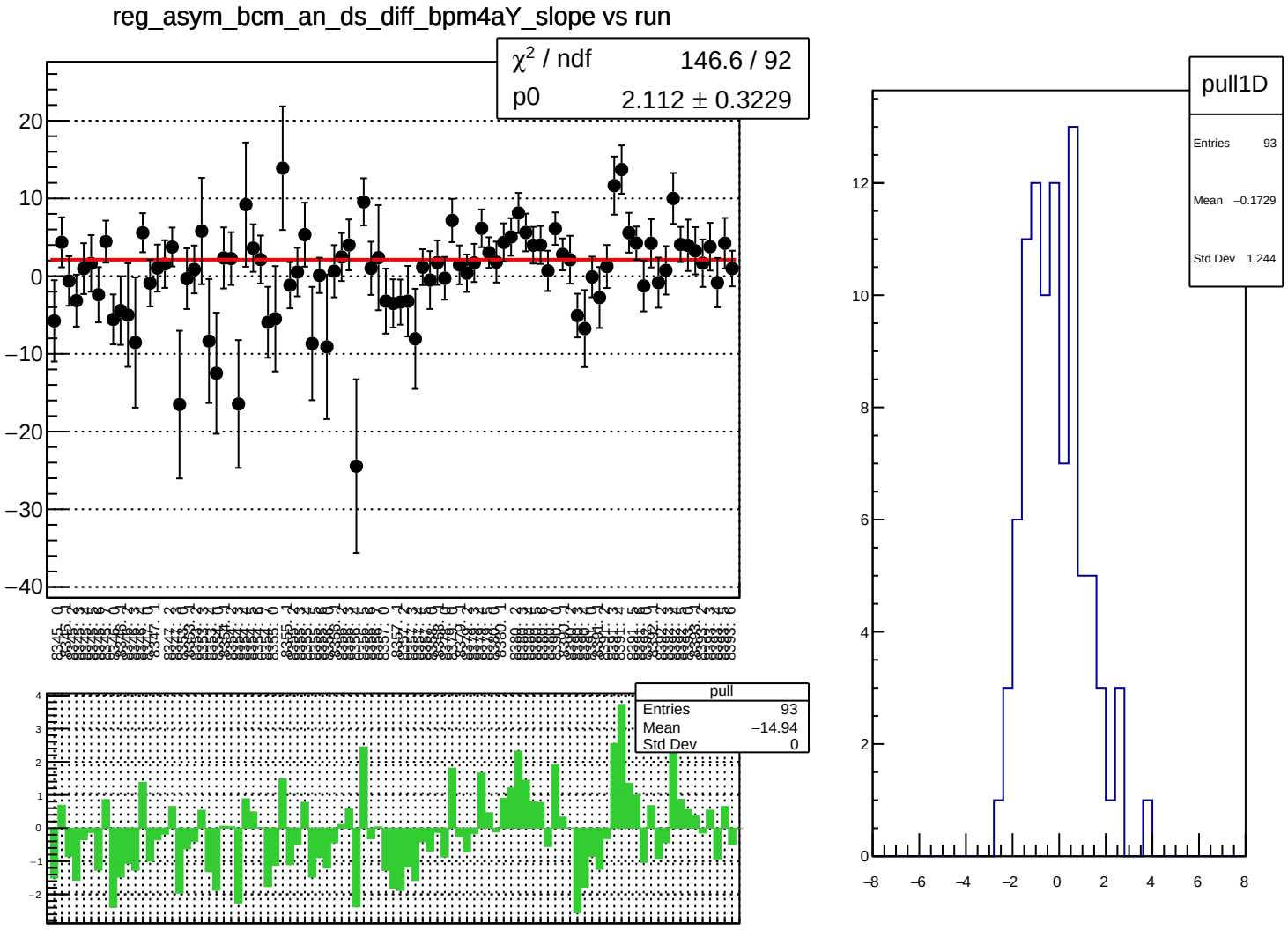

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 136.7 / 92
p0 −2.275 ± 0.3455
pull
Entries 93
Mean −19.88
Std Dev 0

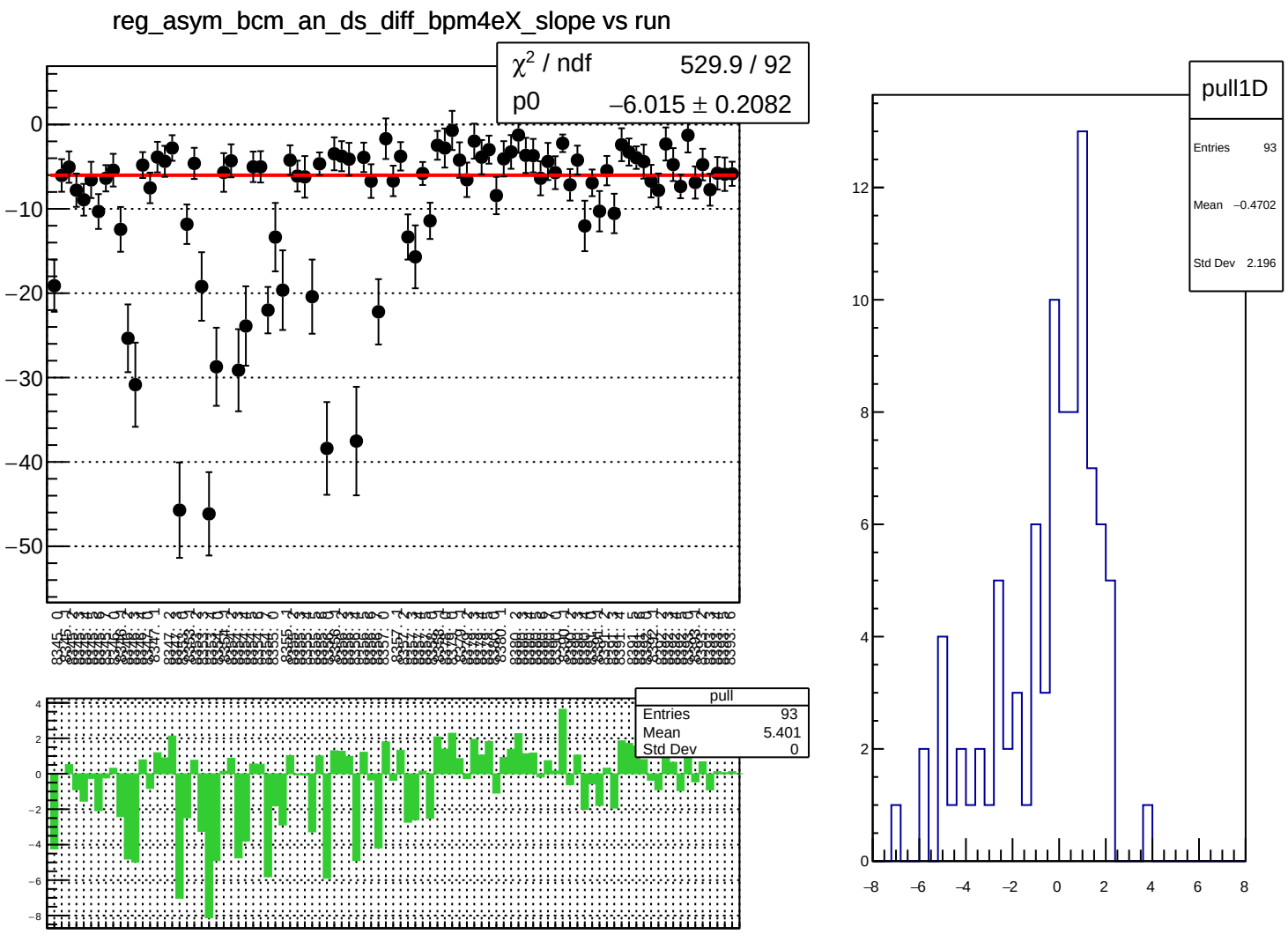

pull1D
Entries 93
Mean 0.1446
Std Dev 1.204

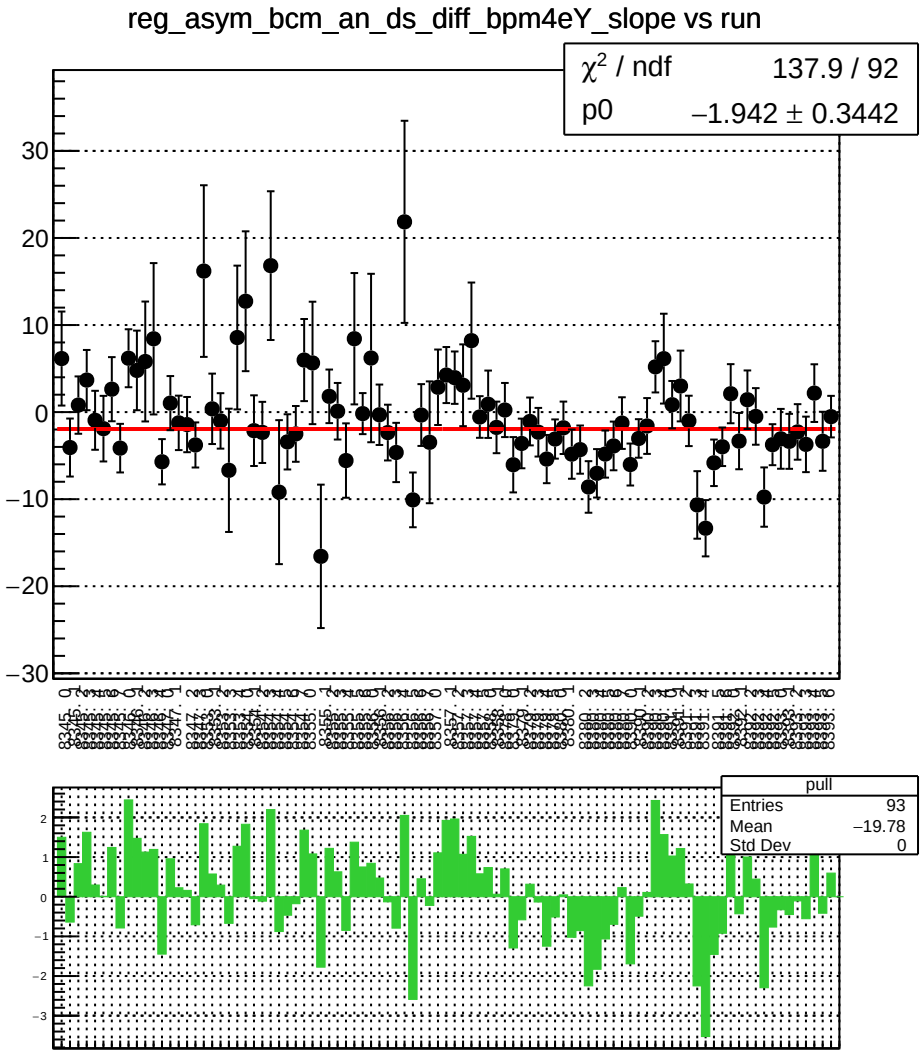

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 275.8 / 92
p0 −0.5179 ± 0.01943
pull
Entries 93
Mean 13.34
Std Dev 0
pull1D
Entries 93
Mean −0.387
Std Dev 1.678

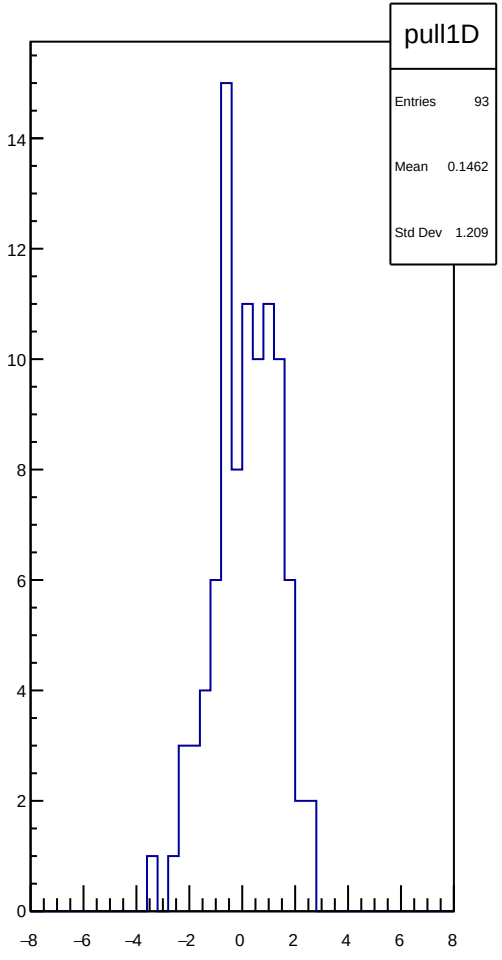

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 514.9 / 92
p0 5.32 ± 0.1923
pull
Entries 93
Mean 6.231
Std Dev 0

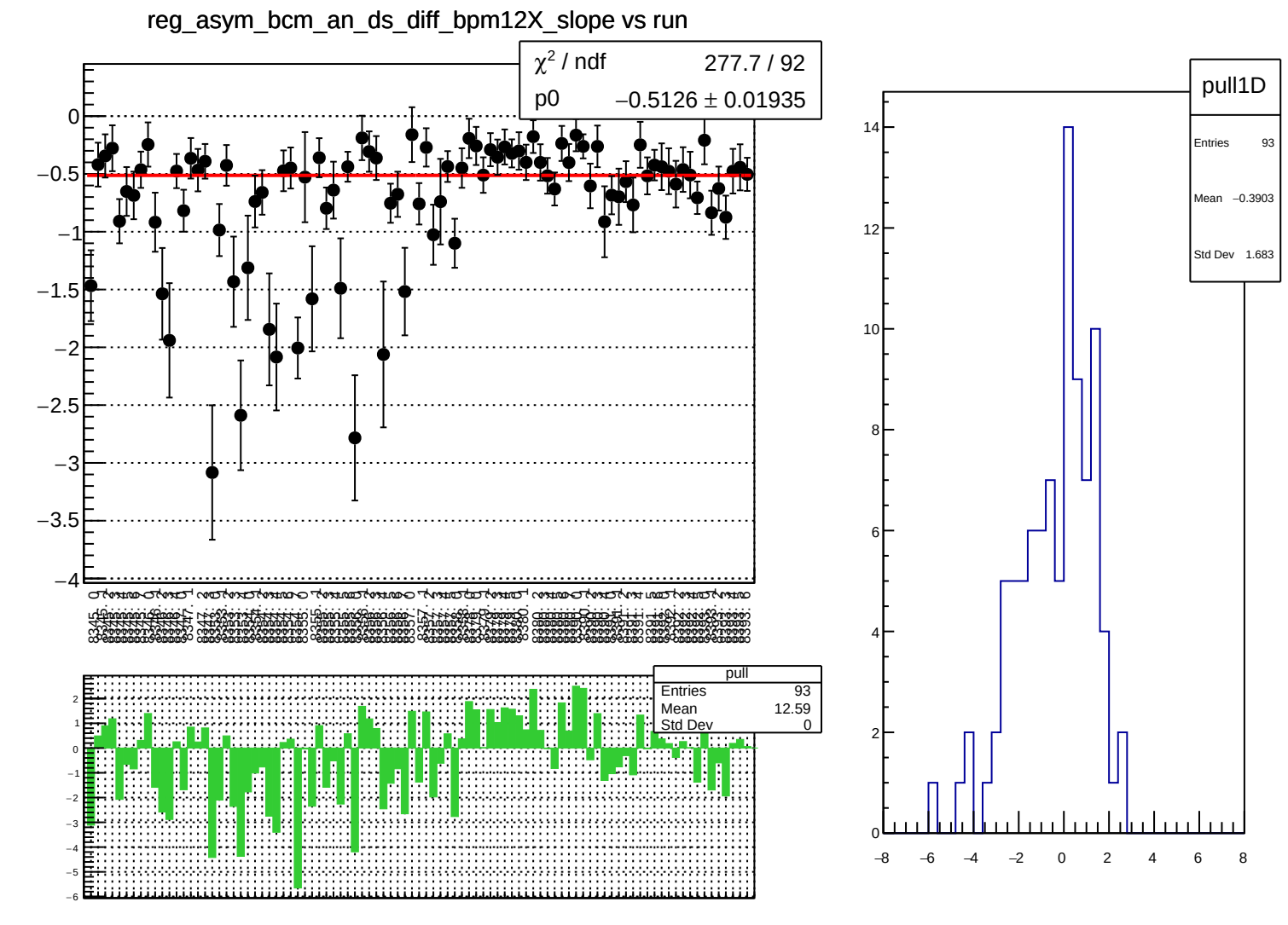

pull1D
Entries 93
Mean 0.4313
Std Dev 2.16

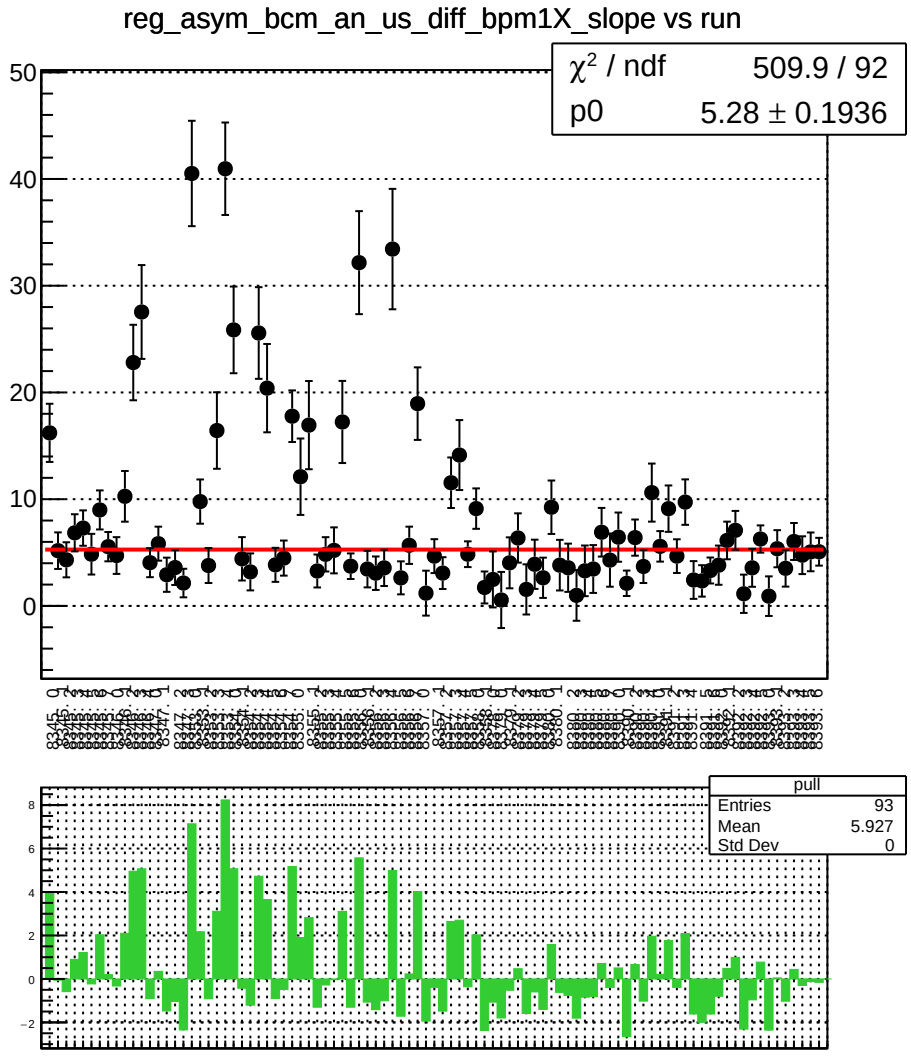

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 146.6 / 92
p0 2.112 ± 0.3229
pull
Entries 93
Mean −14.94
Std Dev 0
pull1D
Entries 93
Mean −0.1729
Std Dev 1.244

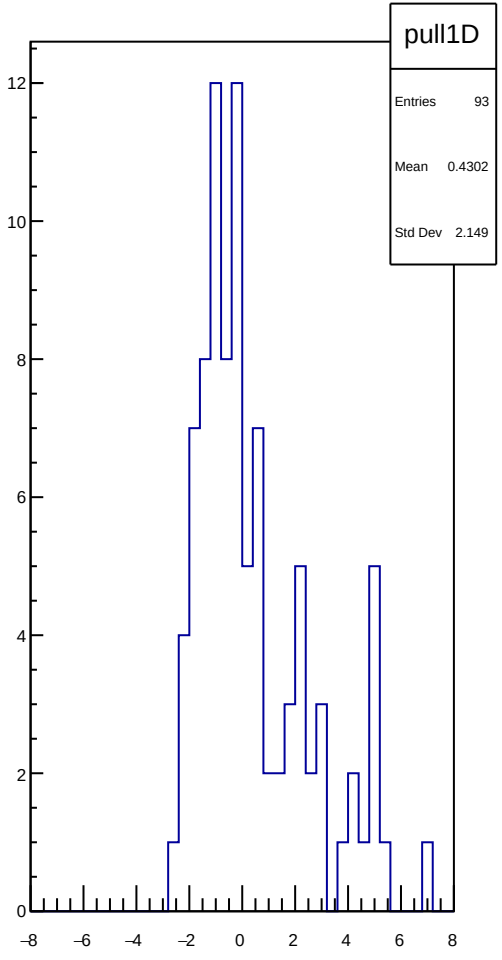

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 529.9 / 92
p0 −6.015 ± 0.2082
pull
Entries 93
Mean 5.401
Std Dev 0
pull1D
Entries 93
Mean −0.4702
Std Dev 2.196

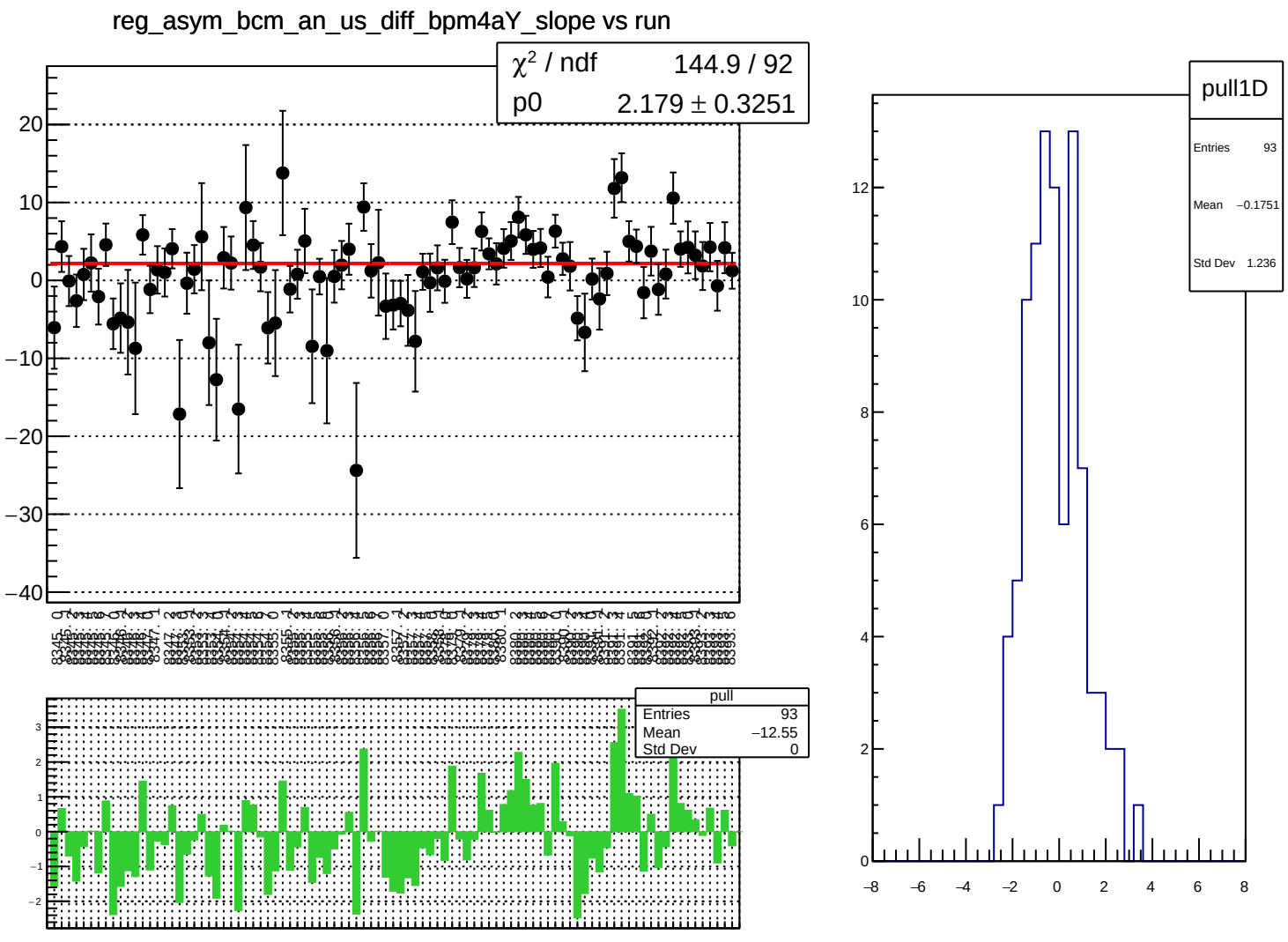

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 137.9 / 92
p0 −1.942 ± 0.3442
pull
Entries 93
Mean −19.78
Std Dev 0

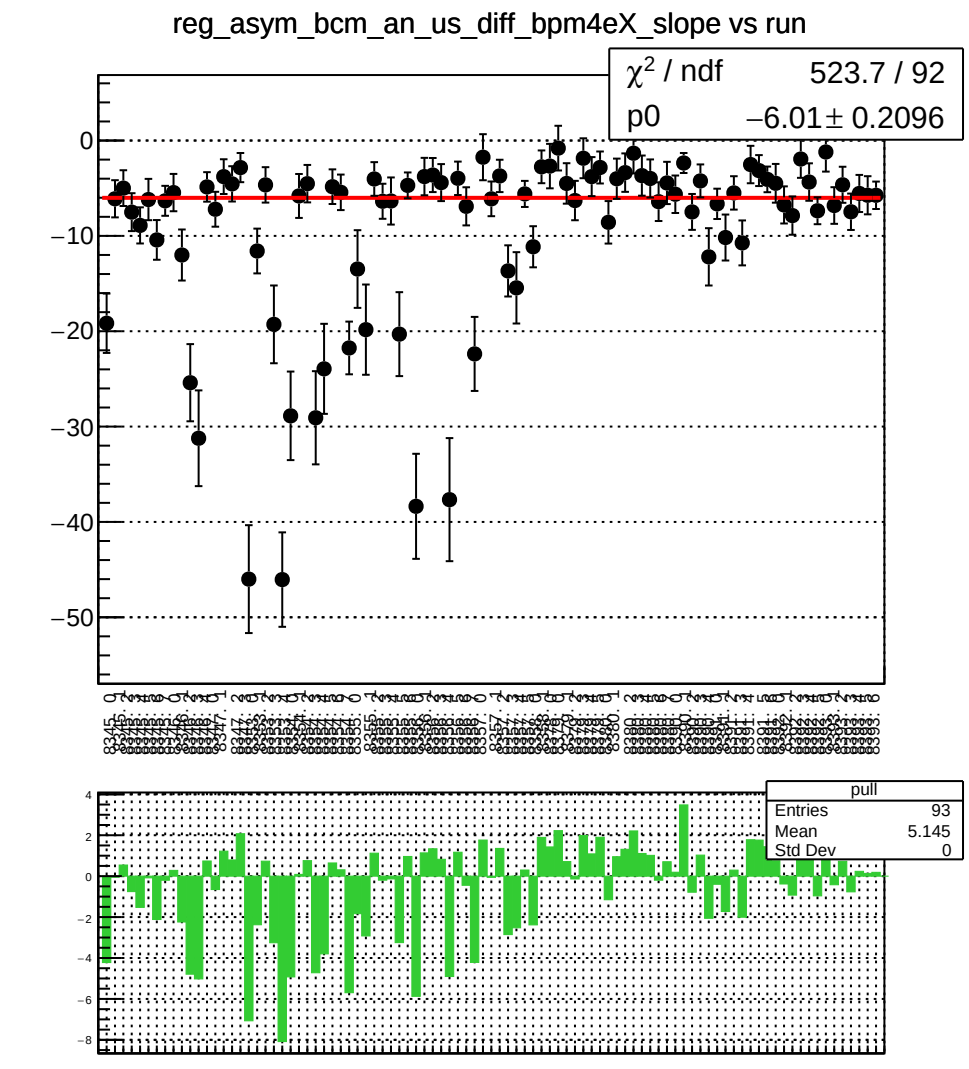

pull1D
Entries 93
Mean 0.1462
Std Dev 1.209

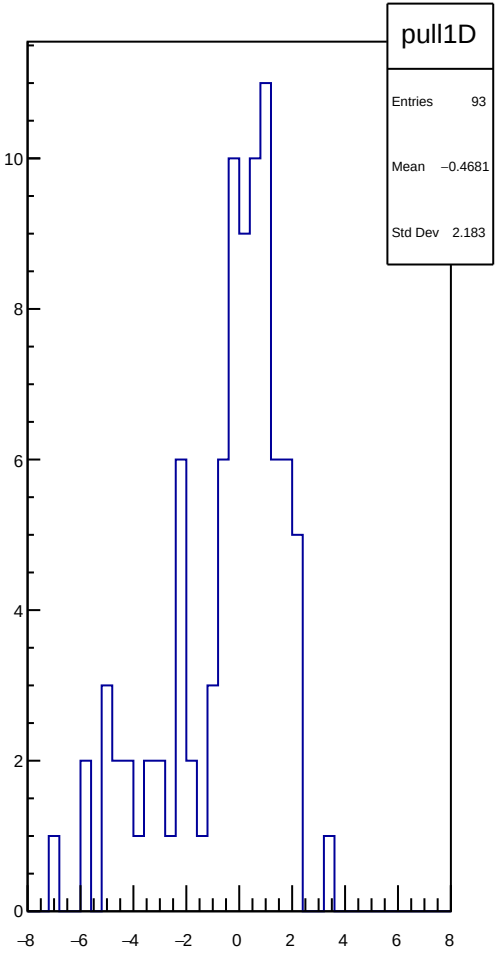

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 277.7 / 92
p0 −0.5126 ± 0.01935
pull
Entries 93
Mean 12.59
Std Dev 0
pull1D
Entries 93
Mean −0.3903
Std Dev 1.683

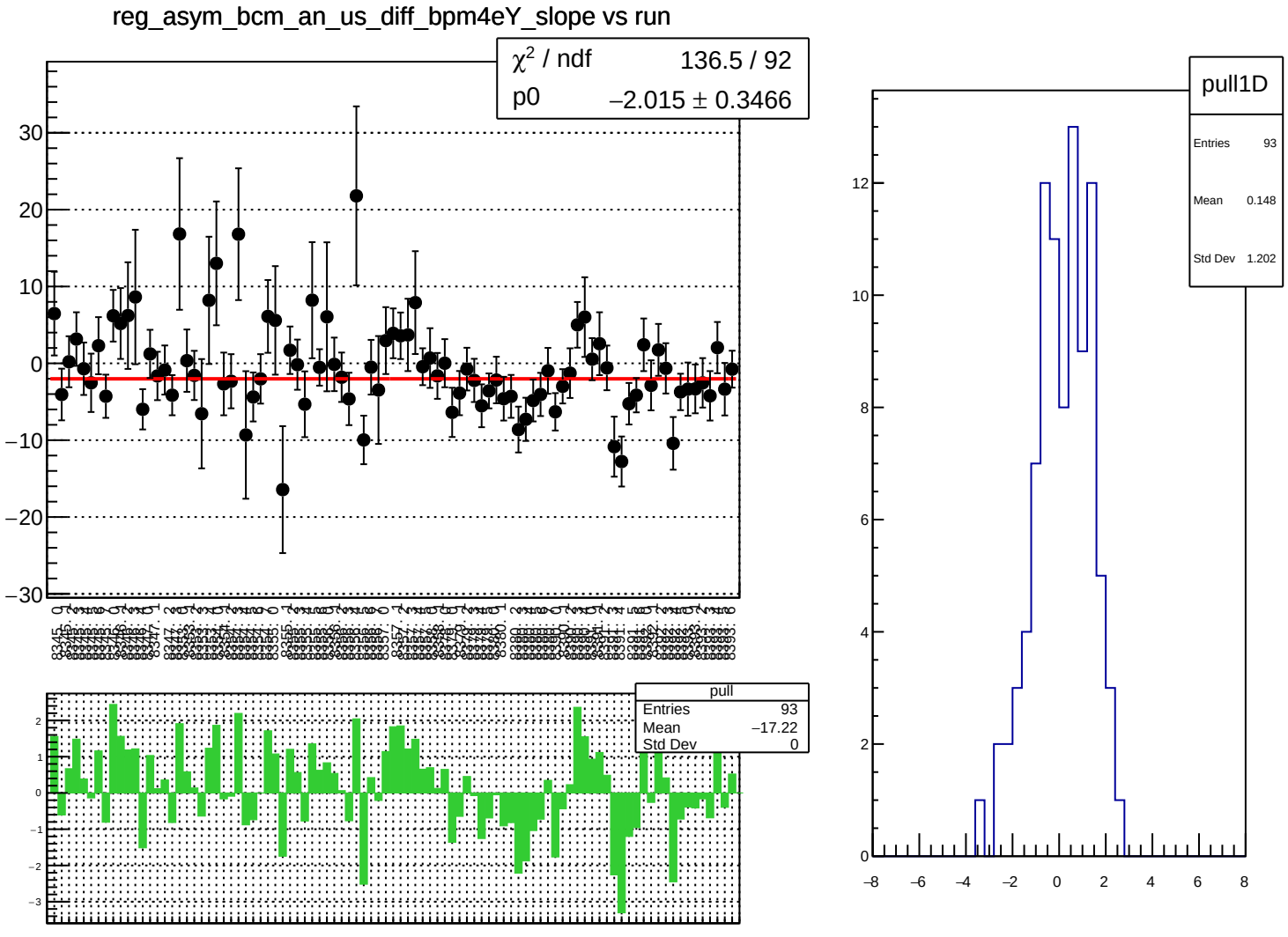

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 509.9 / 92
p0 5.28 ± 0.1936
pull
Entries 93
Mean 5.927
Std Dev 0

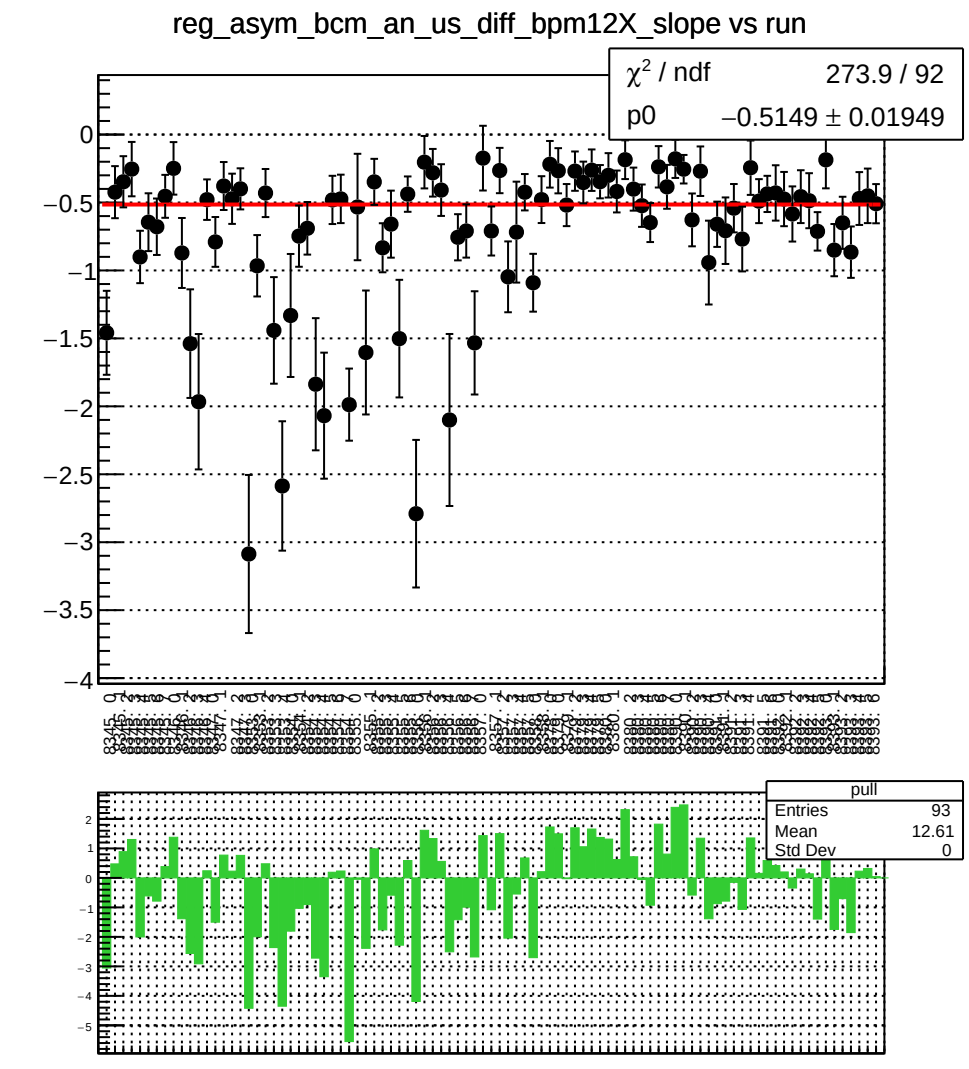

pull1D
Entries 93
Mean 0.4302
Std Dev 2.149

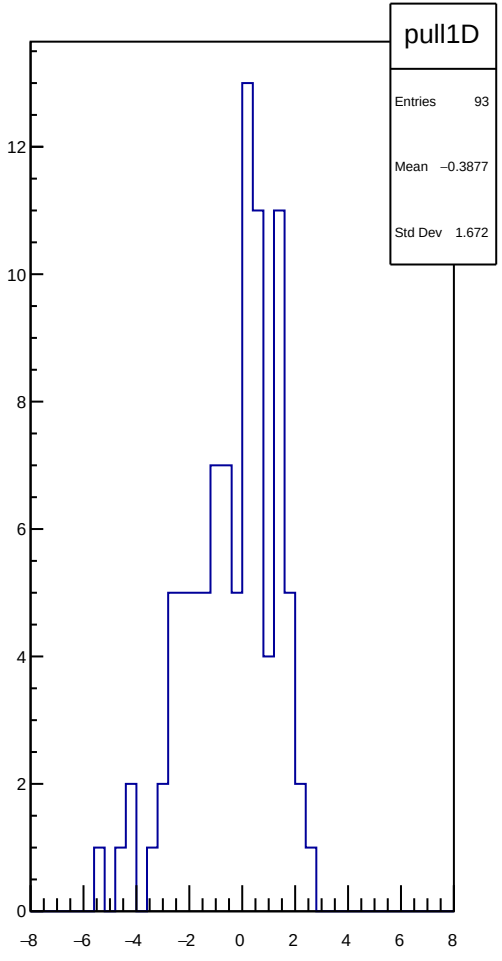

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 144.9 / 92
p0 2.179 ± 0.3251
pull
Entries 93
Mean −12.55
Std Dev 0
pull1D
Entries 93
Mean −0.1751
Std Dev 1.236

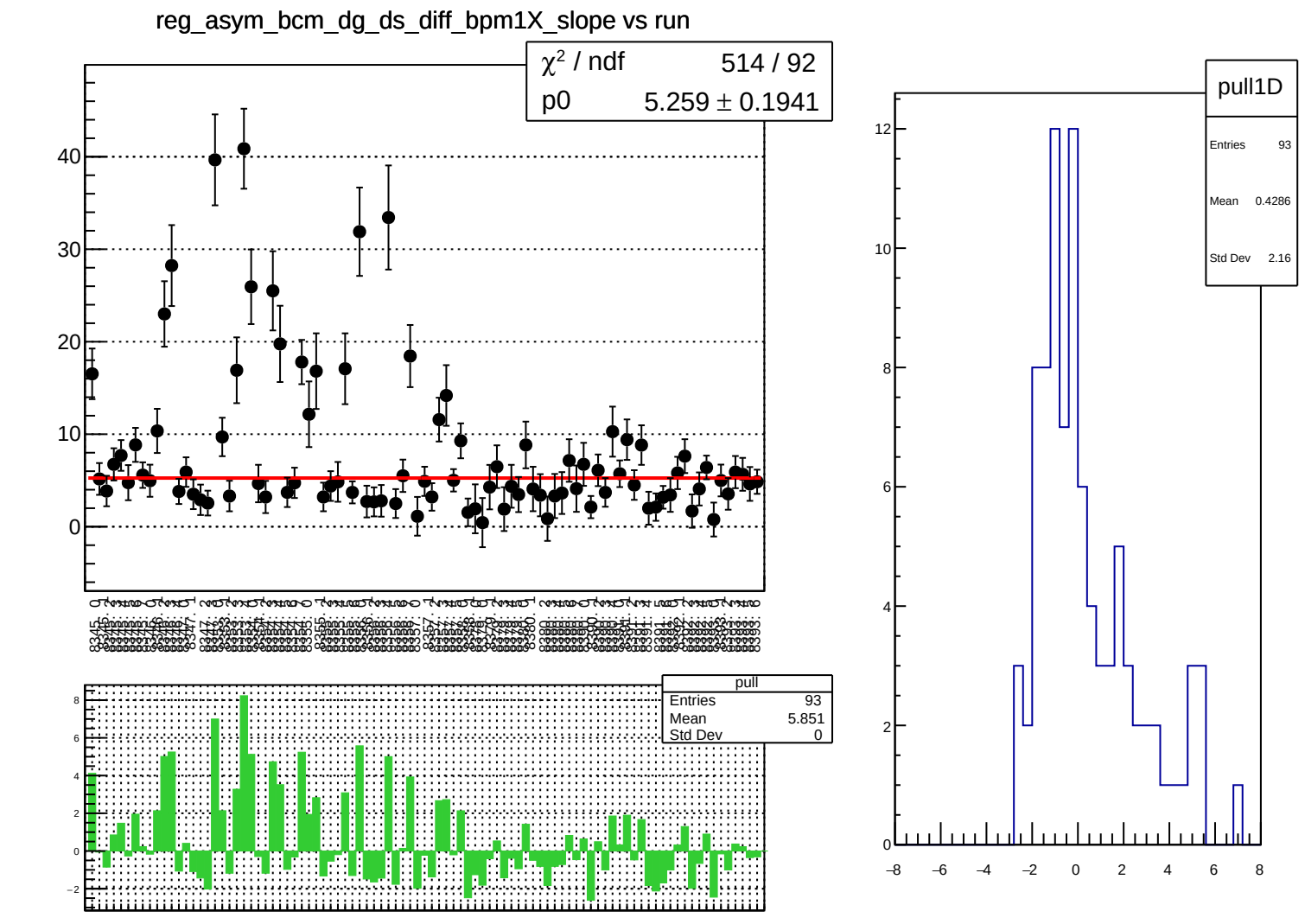

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 523.7 / 92
p0 −6.01 ± 0.2096
pull
Entries 93
Mean 5.145
Std Dev 0

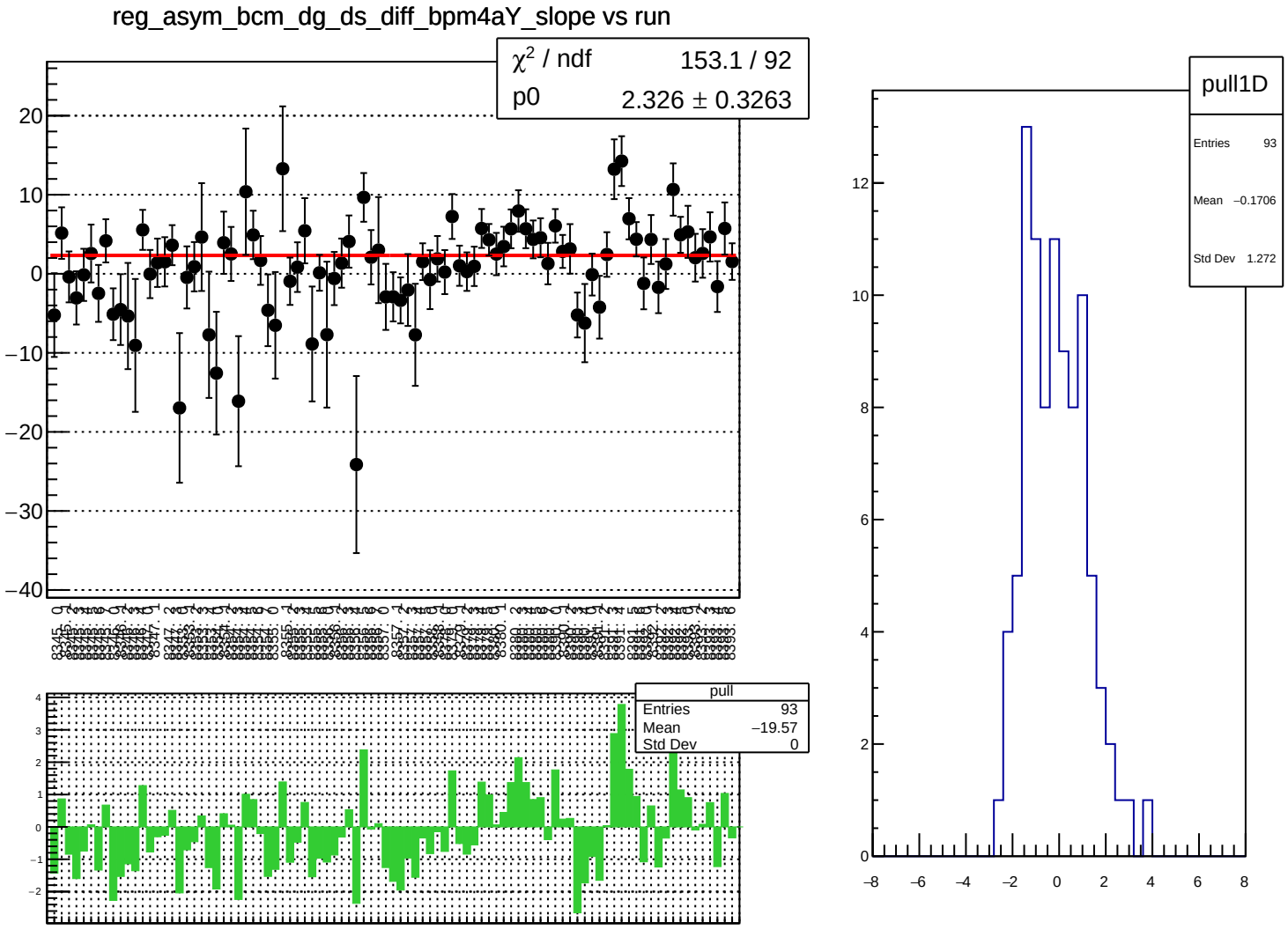

pull1D
Entries 93
Mean −0.4681
Std Dev 2.183

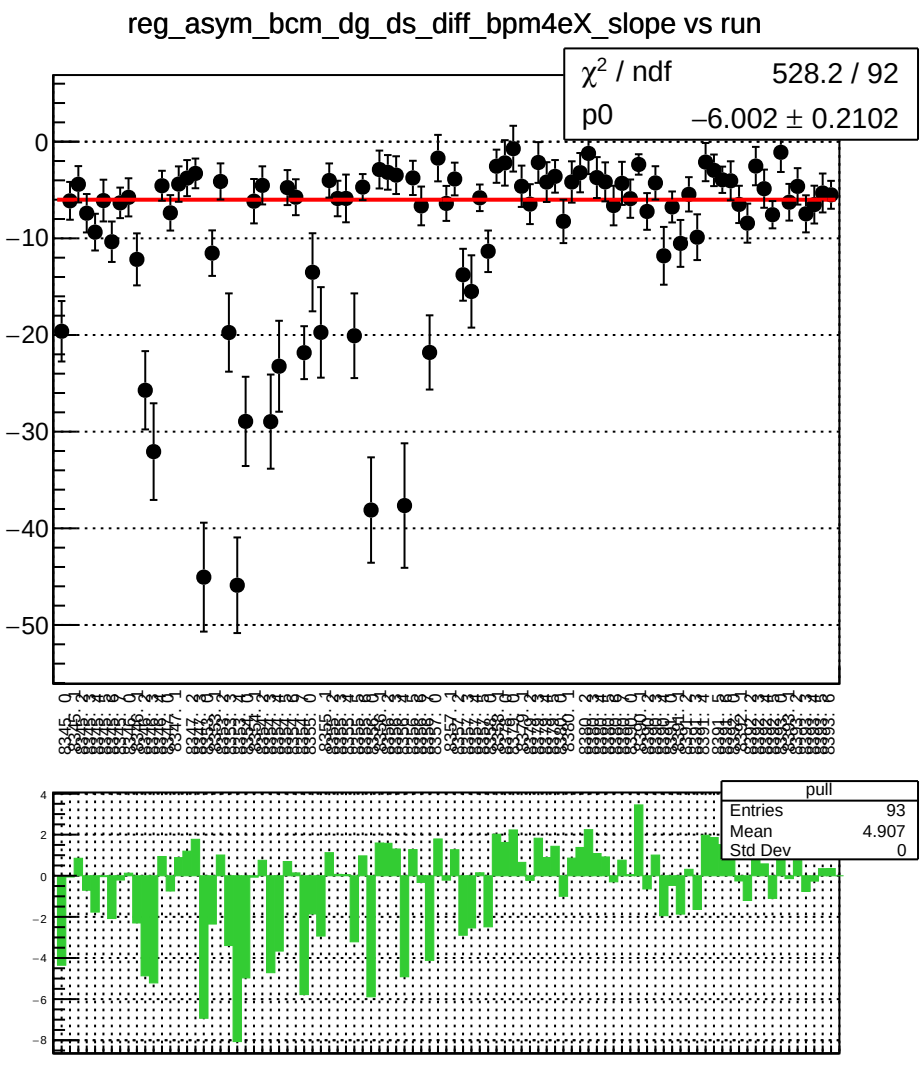

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 136.5 / 92
p0 −2.015 ± 0.3466
pull
Entries 93
Mean −17.22
Std Dev 0
pull1D
Entries 93
Mean 0.148
Std Dev 1.202

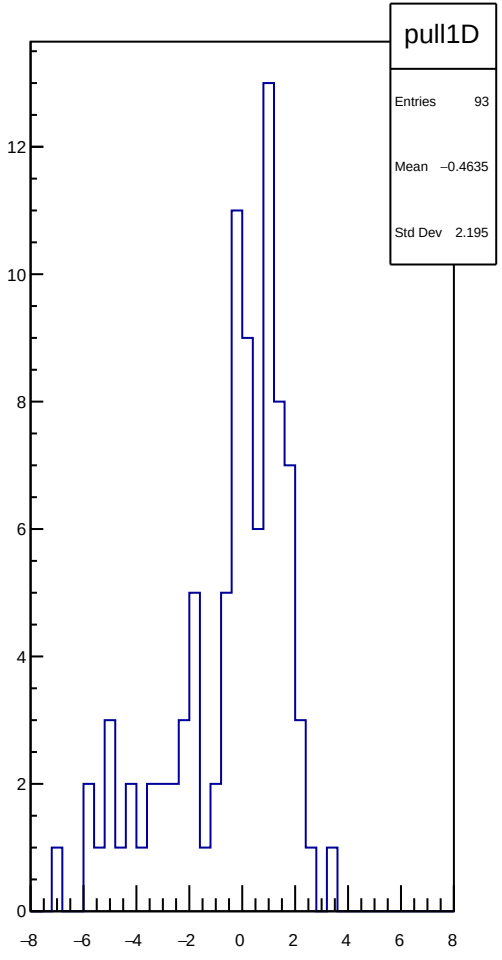

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 273.9 / 92
p0 −0.5149 ± 0.01949
pull
Entries 93
Mean 12.61
Std Dev 0

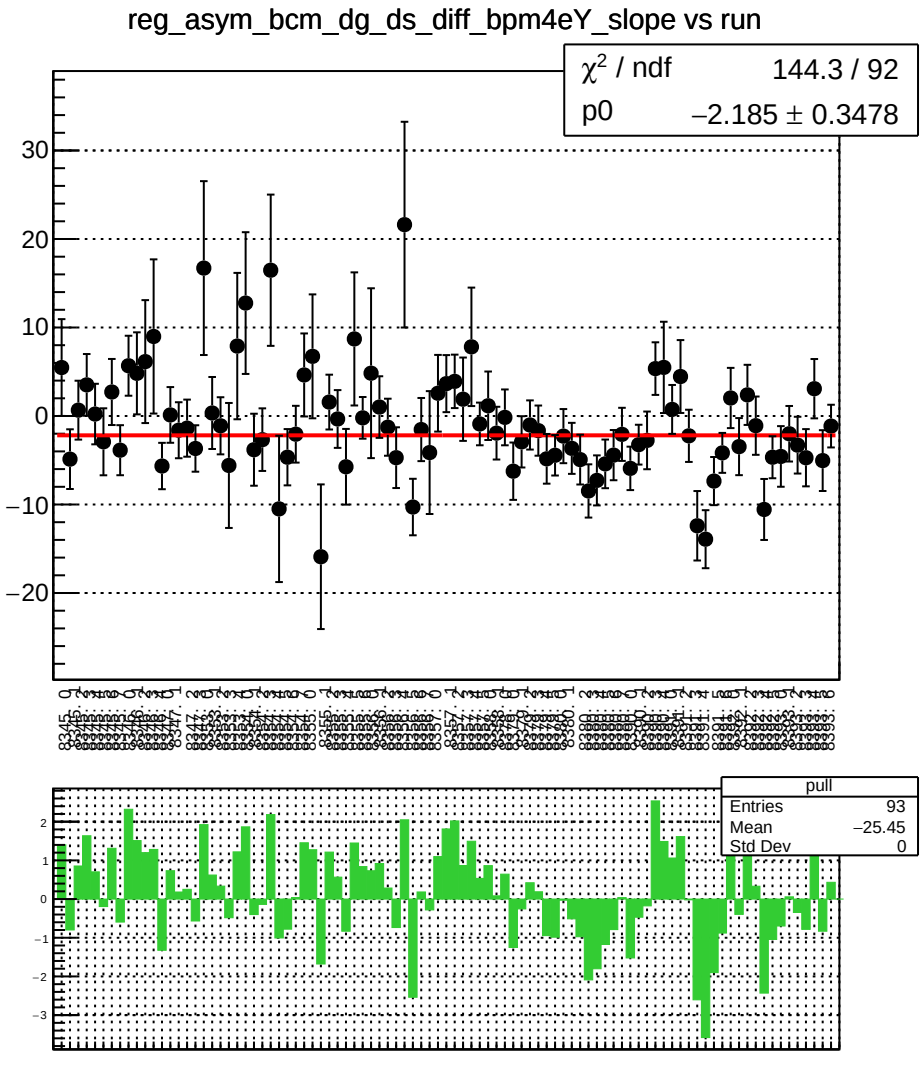

pull1D
Entries 93
Mean −0.3877
Std Dev 1.672

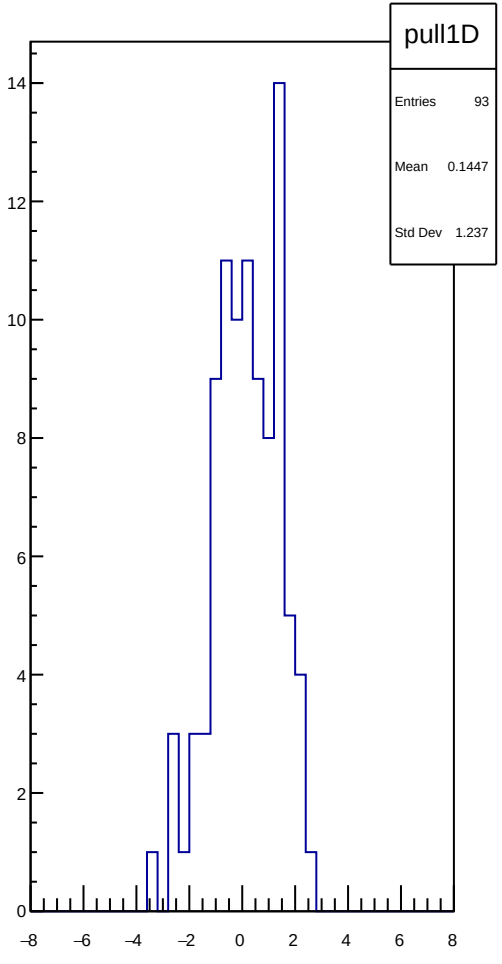

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 514 / 92
p0 5.259 ± 0.1941
pull
Entries 93
Mean 5.851
Std Dev 0
pull1D
Entries 93
Mean 0.4286
Std Dev 2.16

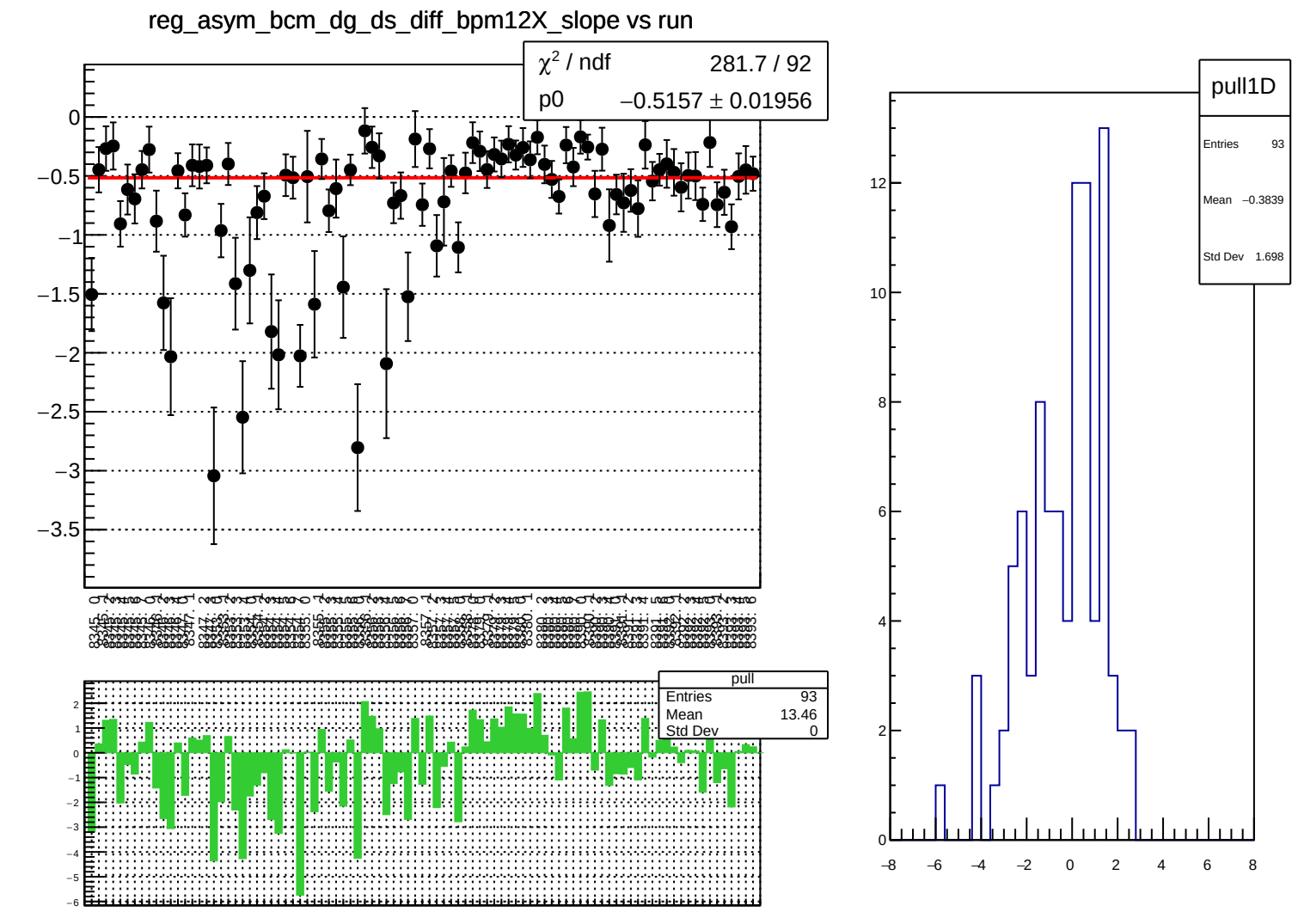

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 153.1 / 92
p0 2.326 ± 0.3263
pull
Entries 93
Mean −19.57
Std Dev 0
pull1D
Entries 93
Mean −0.1706
Std Dev 1.272

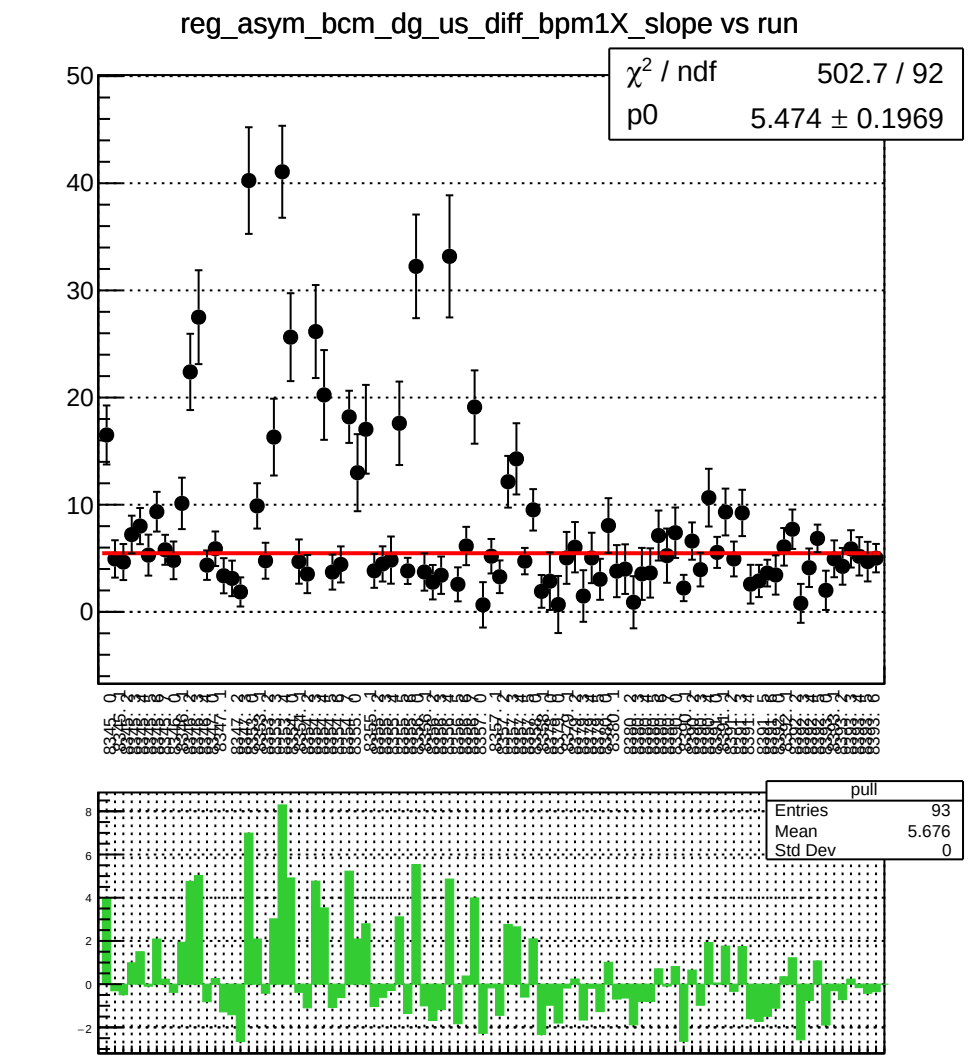

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 528.2 / 92
p0 −6.002 ± 0.2102
pull
Entries 93
Mean 4.907
Std Dev 0

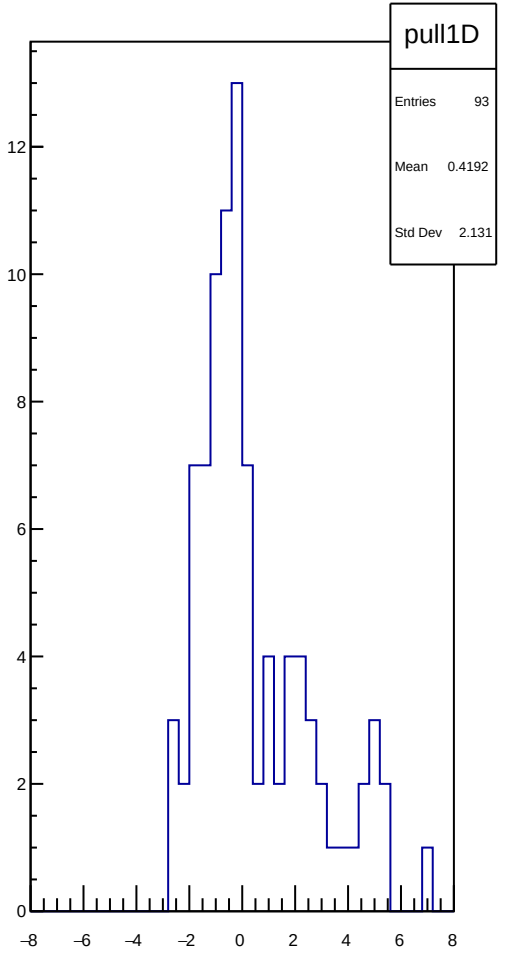

pull1D
Entries 93
Mean −0.4635
Std Dev 2.195

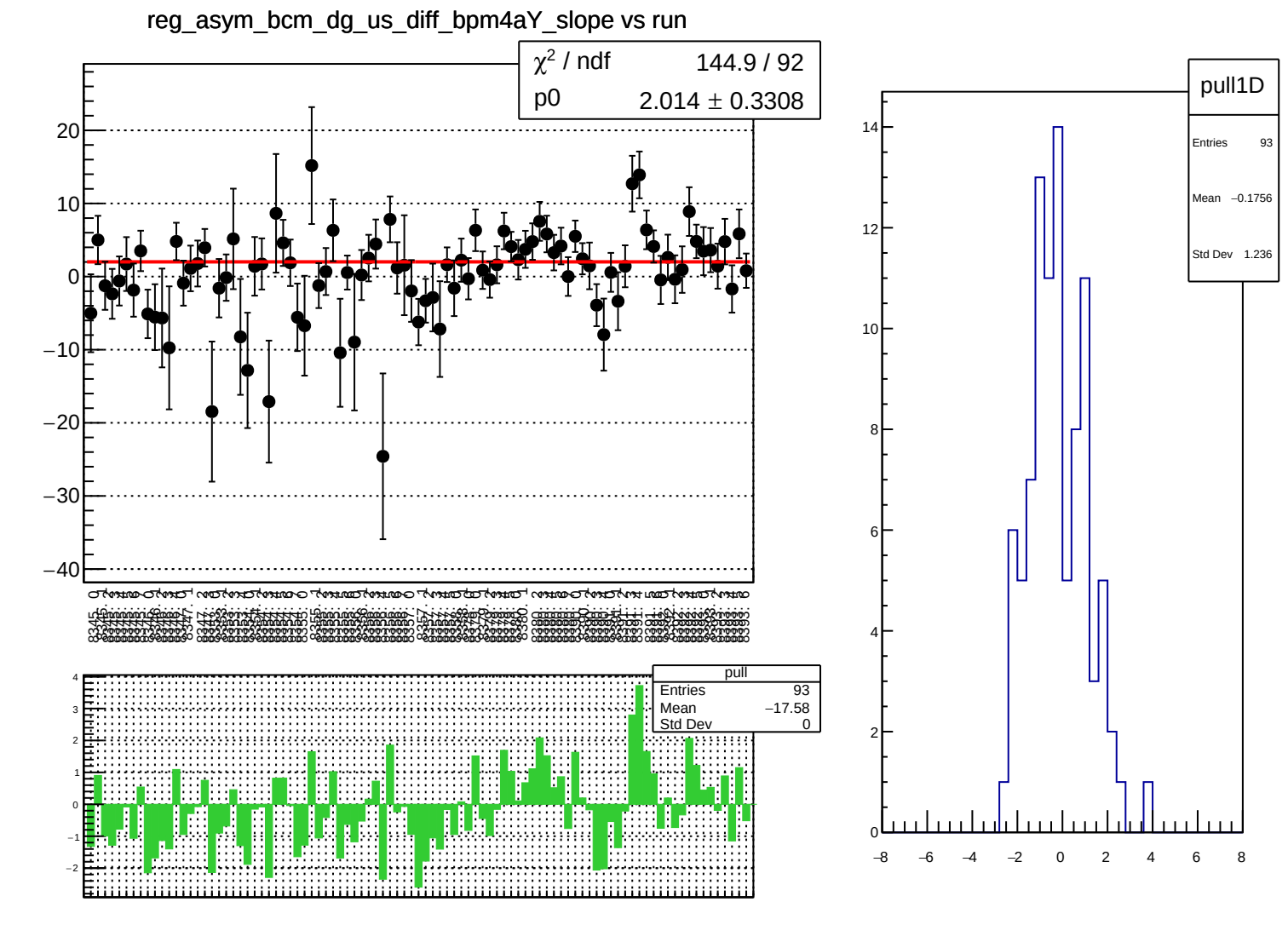

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 144.3 / 92
p0 −2.185 ± 0.3478
pull
Entries 93
Mean −25.45
Std Dev 0

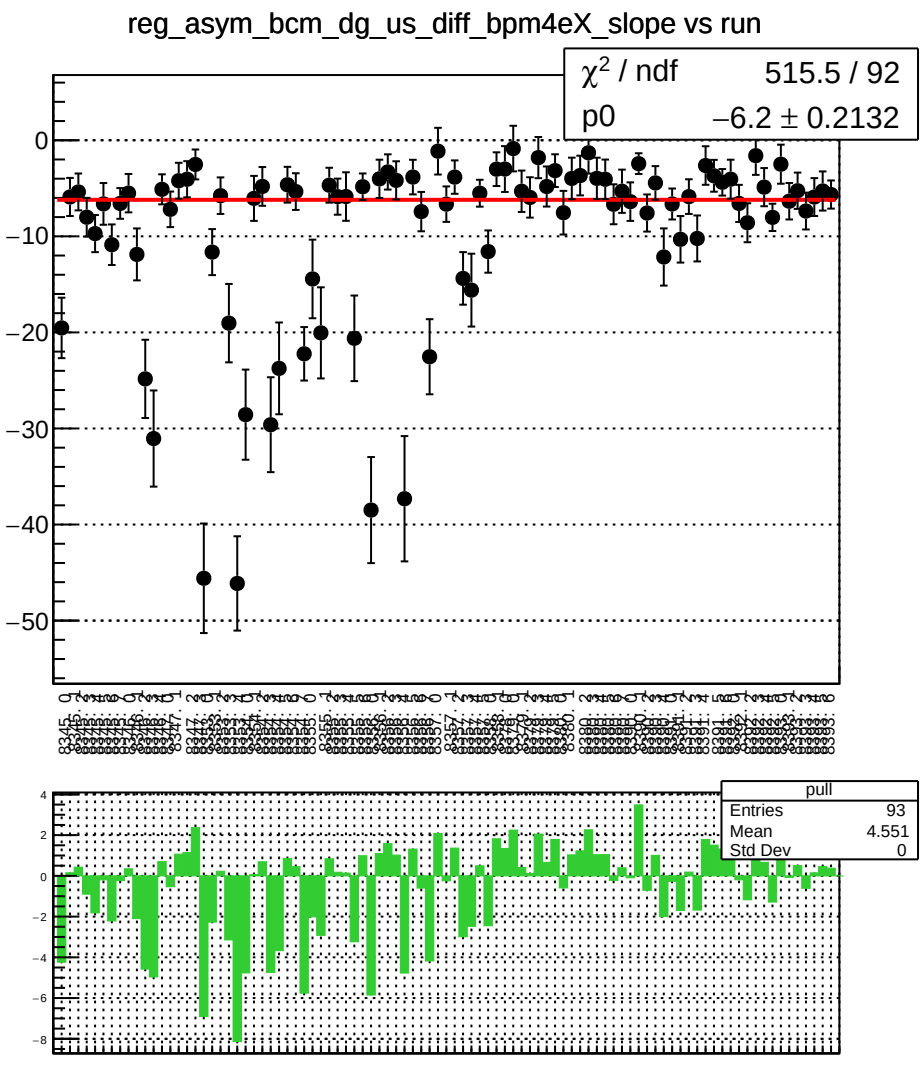

pull1D
Entries 93
Mean 0.1447
Std Dev 1.237

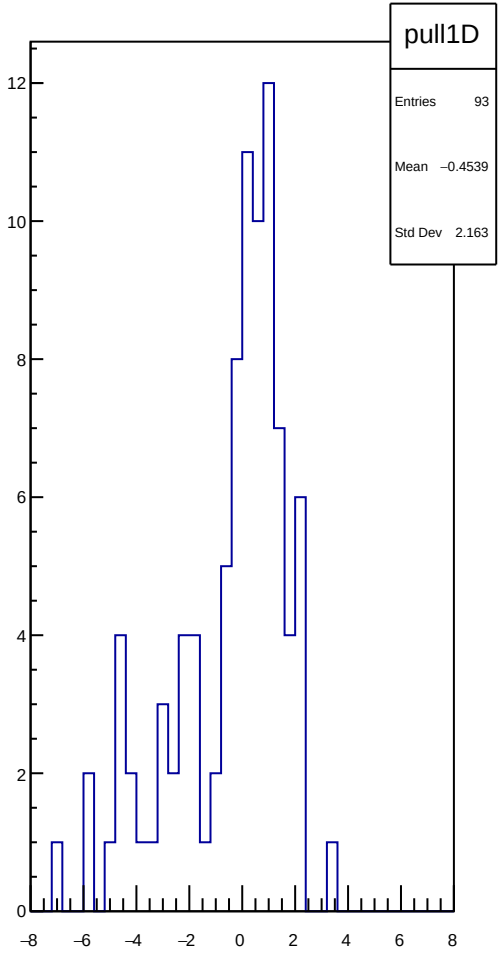

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 281.7 / 92
p0 −0.5157 ± 0.01956
pull
Entries 93
Mean 13.46
Std Dev 0
pull1D
Entries 93
Mean −0.3839
Std Dev 1.698

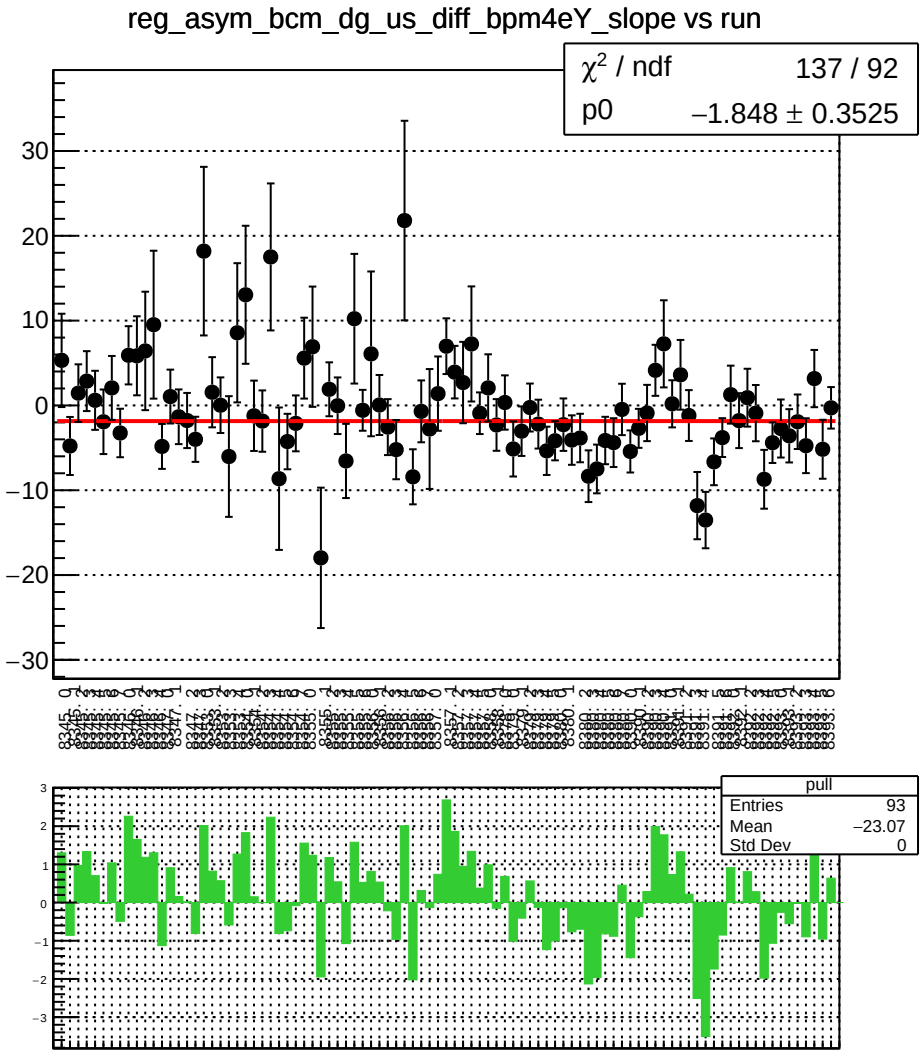

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 502.7 / 92
p0 5.474 ± 0.1969
pull
Entries 93
Mean 5.676
Std Dev 0

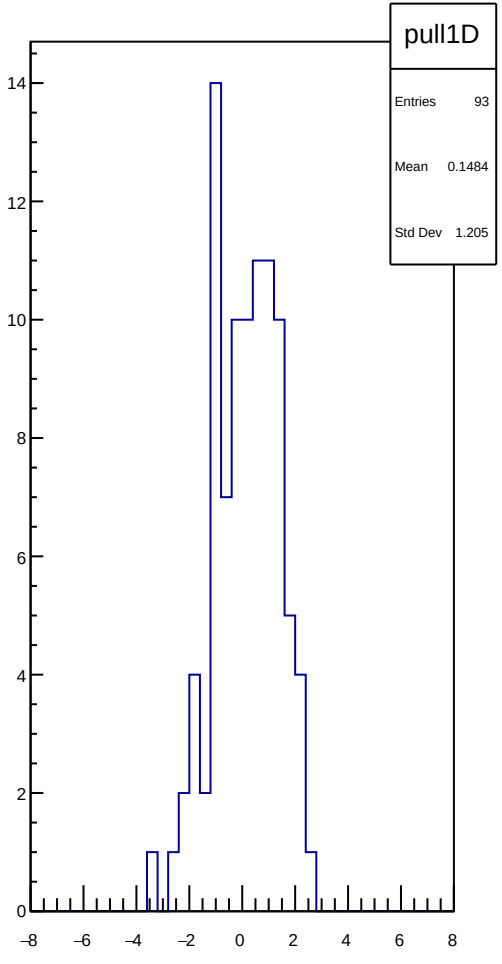

pull1D
Entries 93
Mean 0.4192
Std Dev 2.131

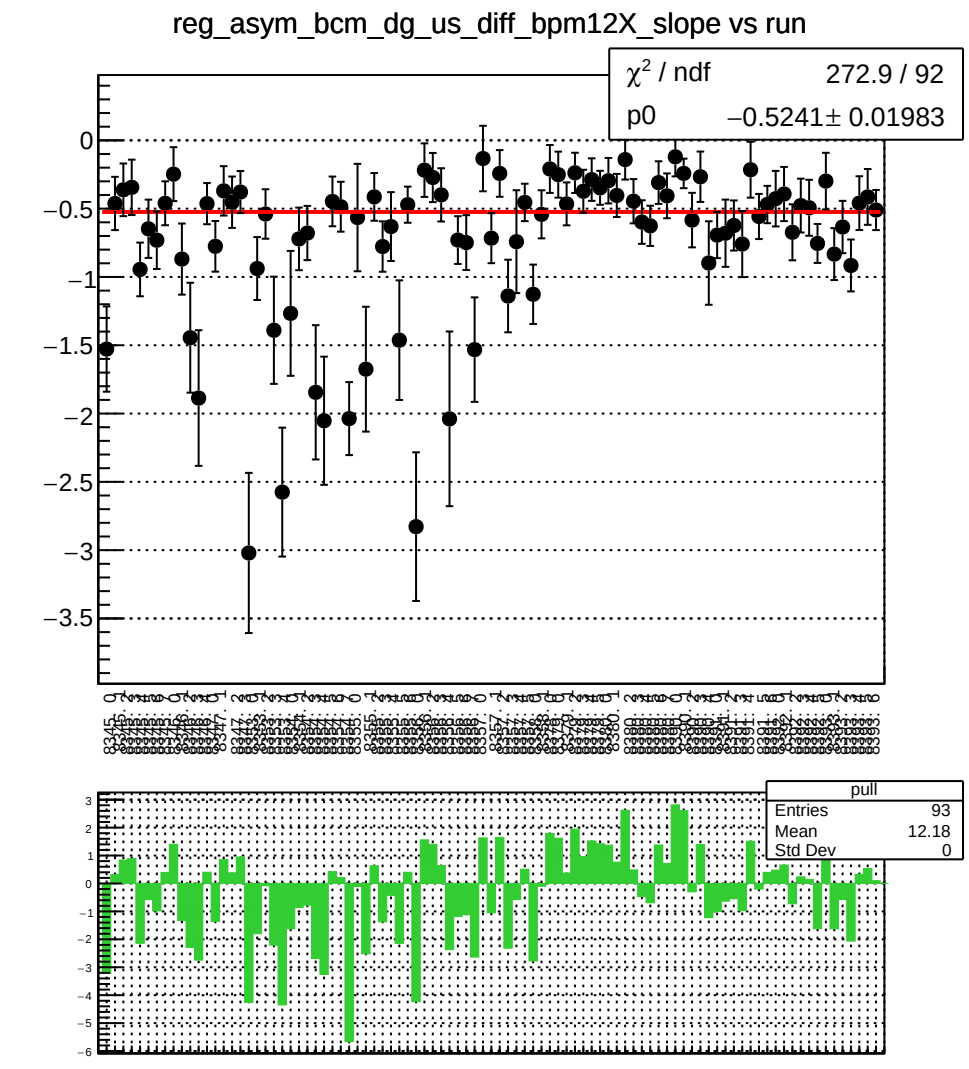

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 144.9 / 92
p0 2.014 ± 0.3308
pull
Entries 93
Mean −17.58
Std Dev 0
pull1D
Entries 93
Mean −0.1756
Std Dev 1.236

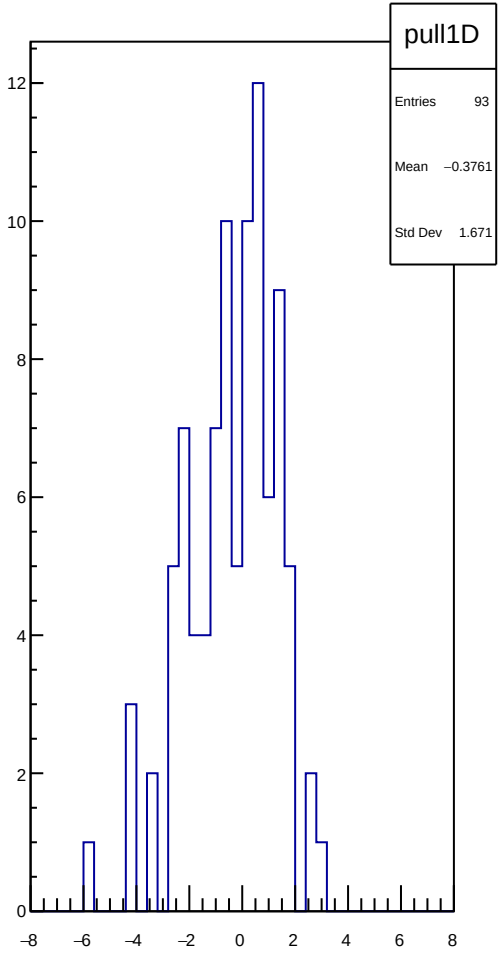

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 515.5 / 92
p0 −6.2 ± 0.2132
pull
Entries 93
Mean 4.551
Std Dev 0

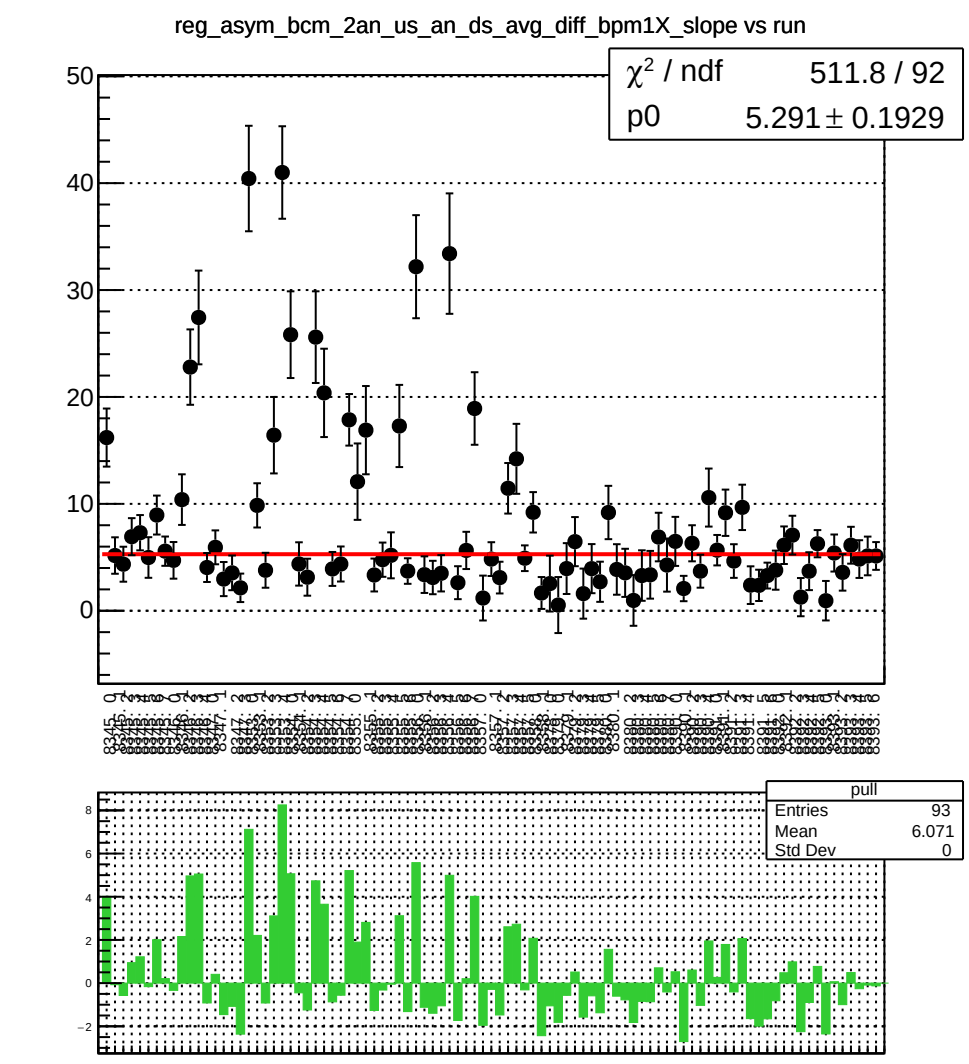

pull1D
Entries 93
Mean −0.4539
Std Dev 2.163

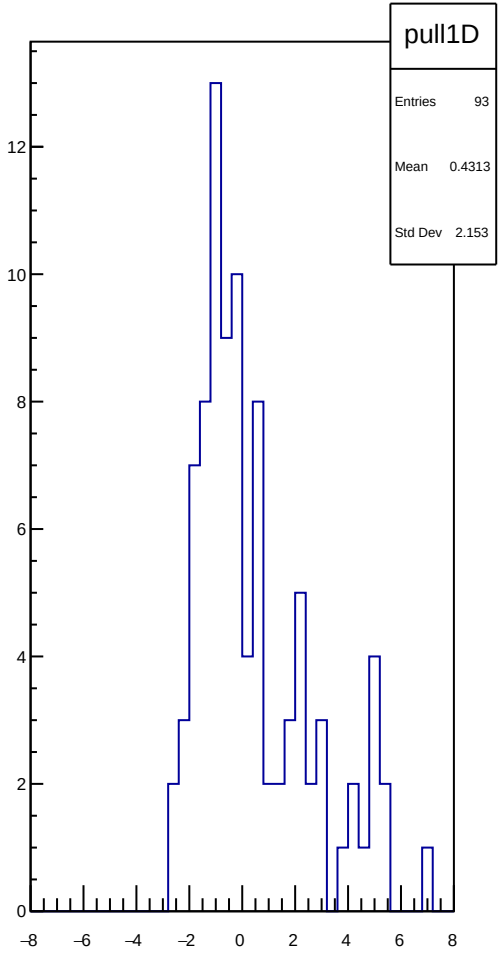

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 137 / 92
p0 −1.848 ± 0.3525
pull
Entries 93
Mean −23.07
Std Dev 0

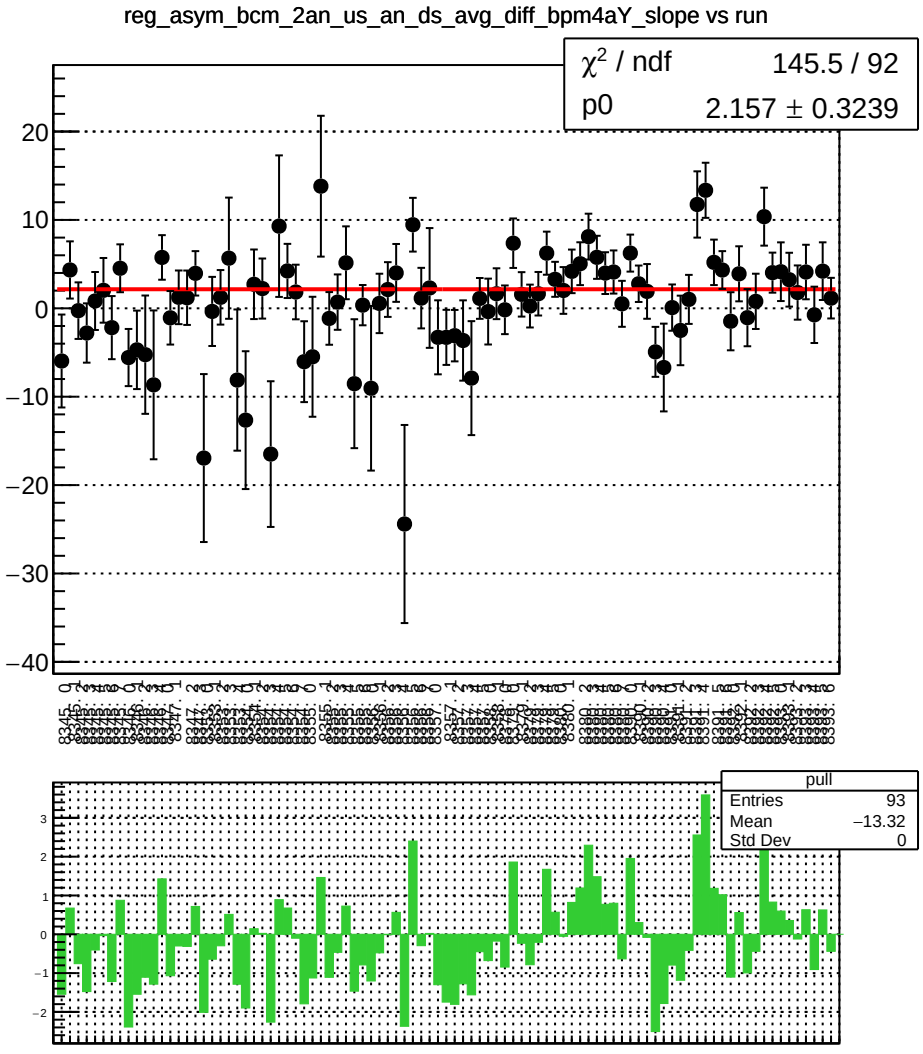

pull1D
Entries 93
Mean 0.1484
Std Dev 1.205

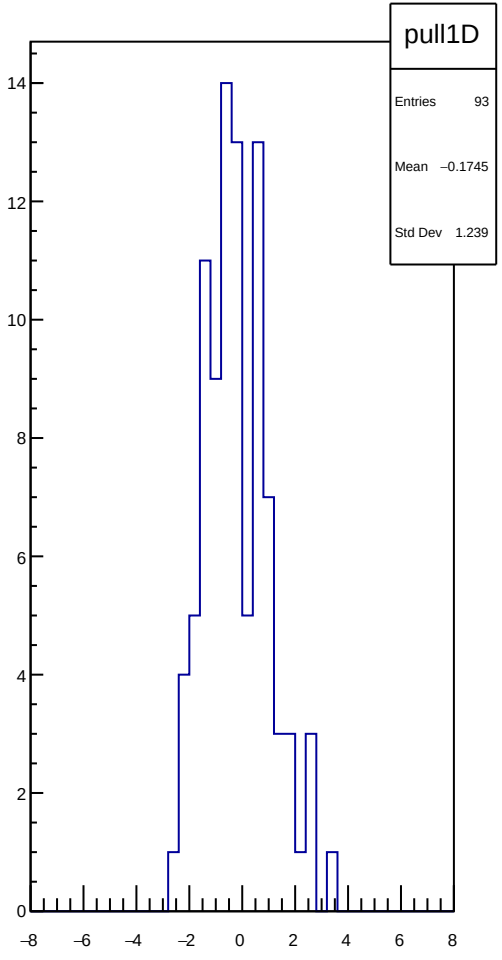

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 272.9 / 92
p0 −0.5241± 0.01983
pull
Entries 93
Mean 12.18
Std Dev 0

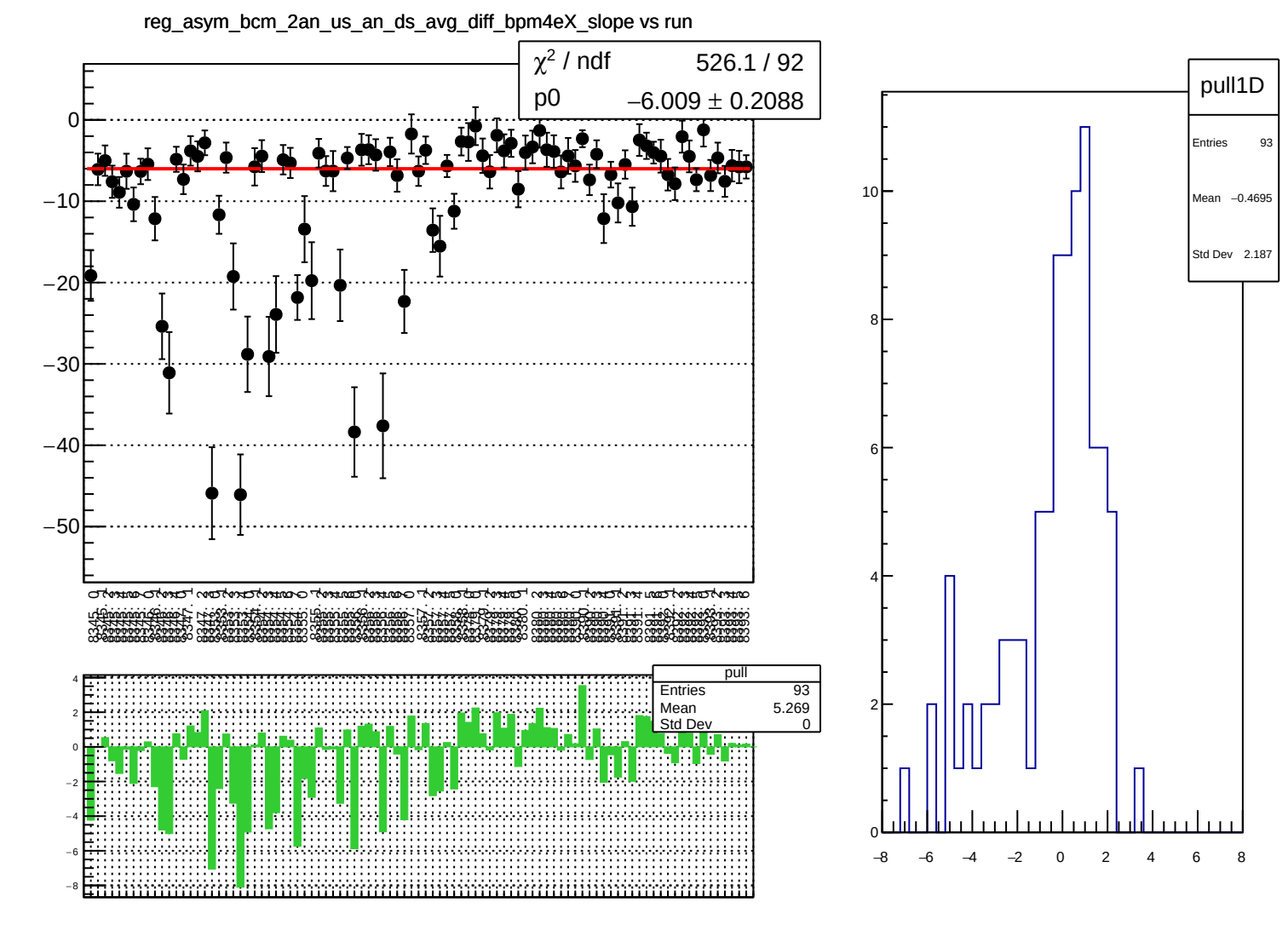

pull1D
Entries 93
Mean −0.3761
Std Dev 1.671

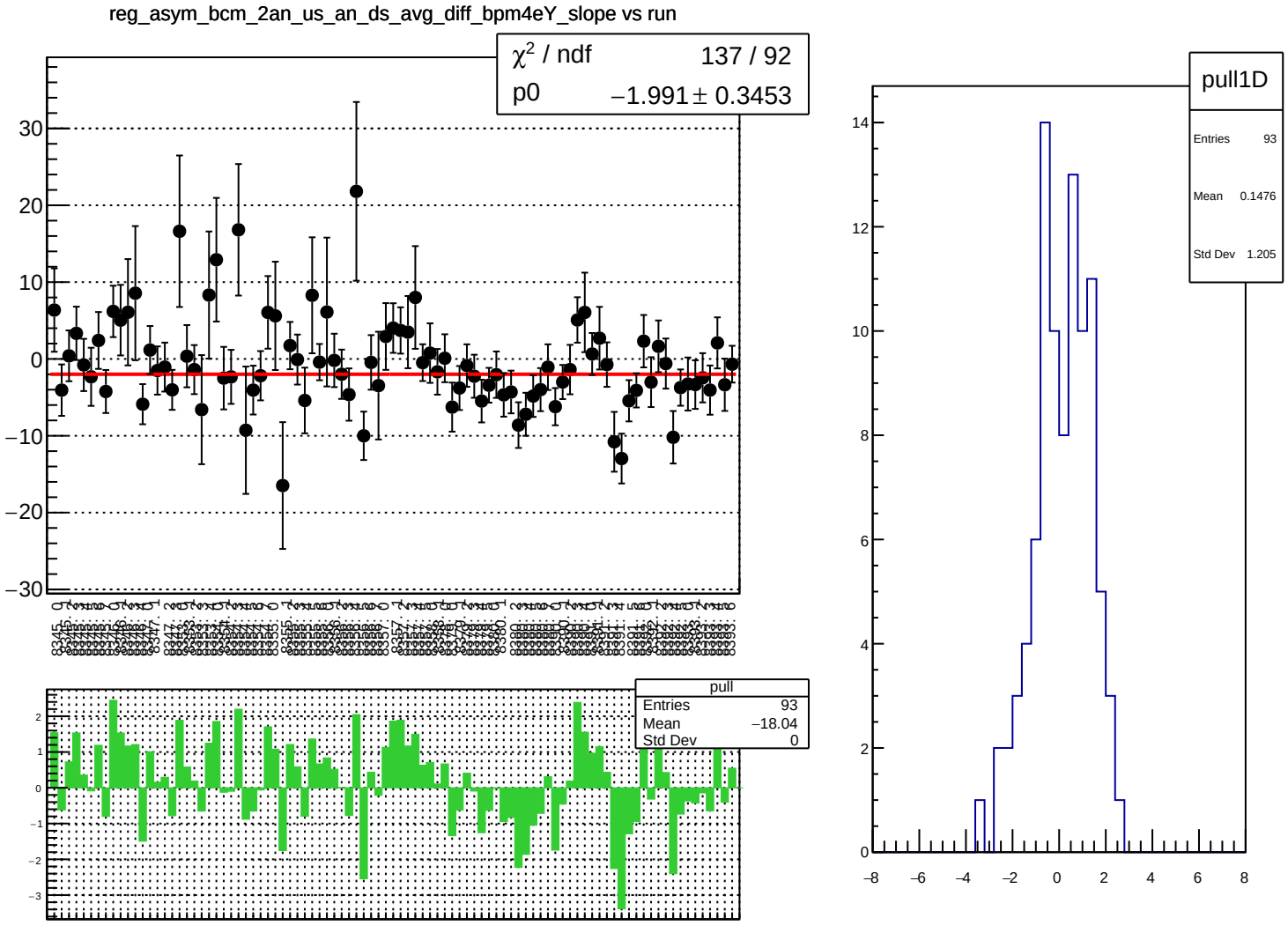

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 511.8 / 92
p0 5.291 ± 0.1929
pull
Entries 93
Mean 6.071
Std Dev 0

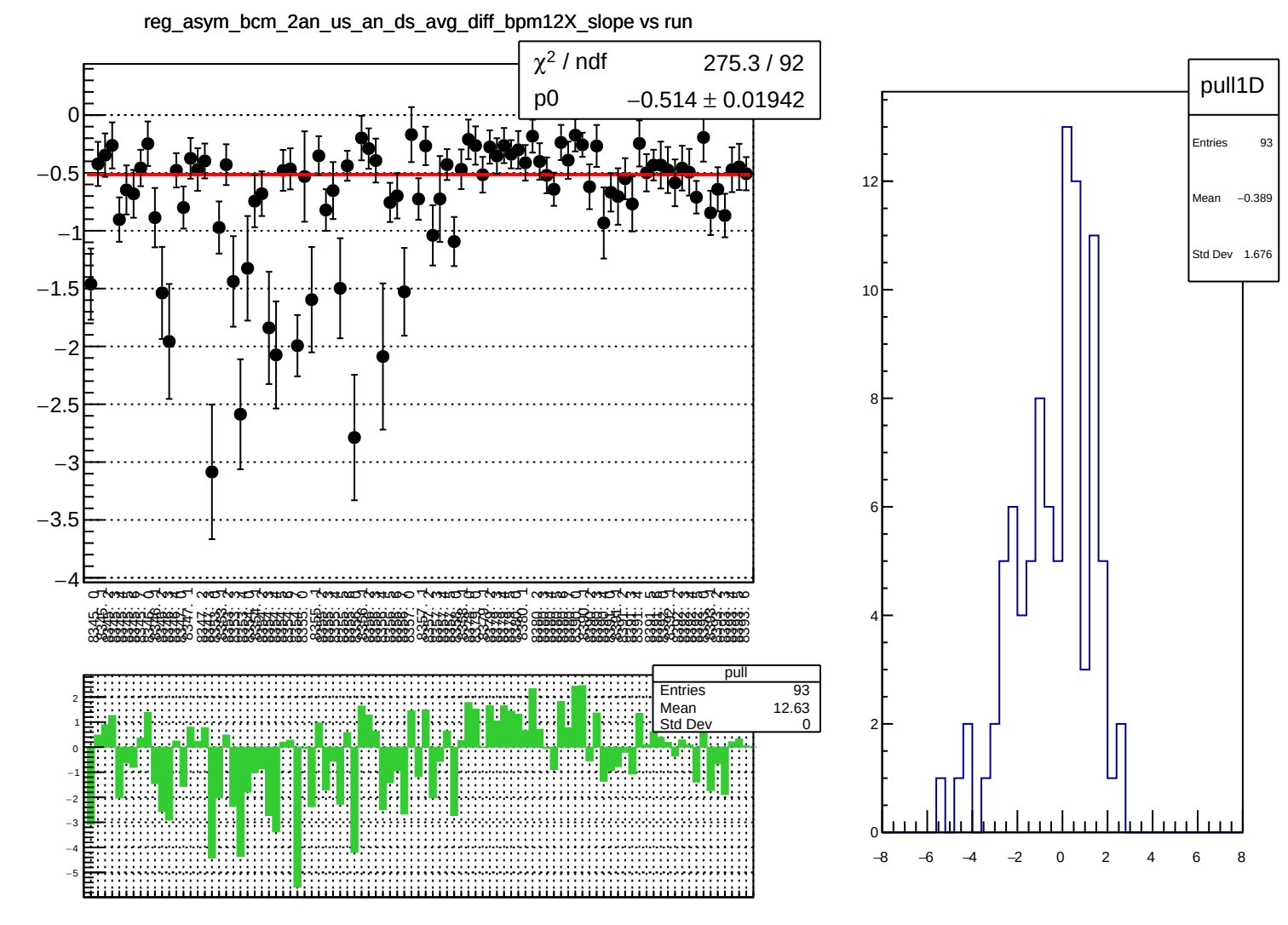

pull1D
Entries 93
Mean 0.4313
Std Dev 2.153

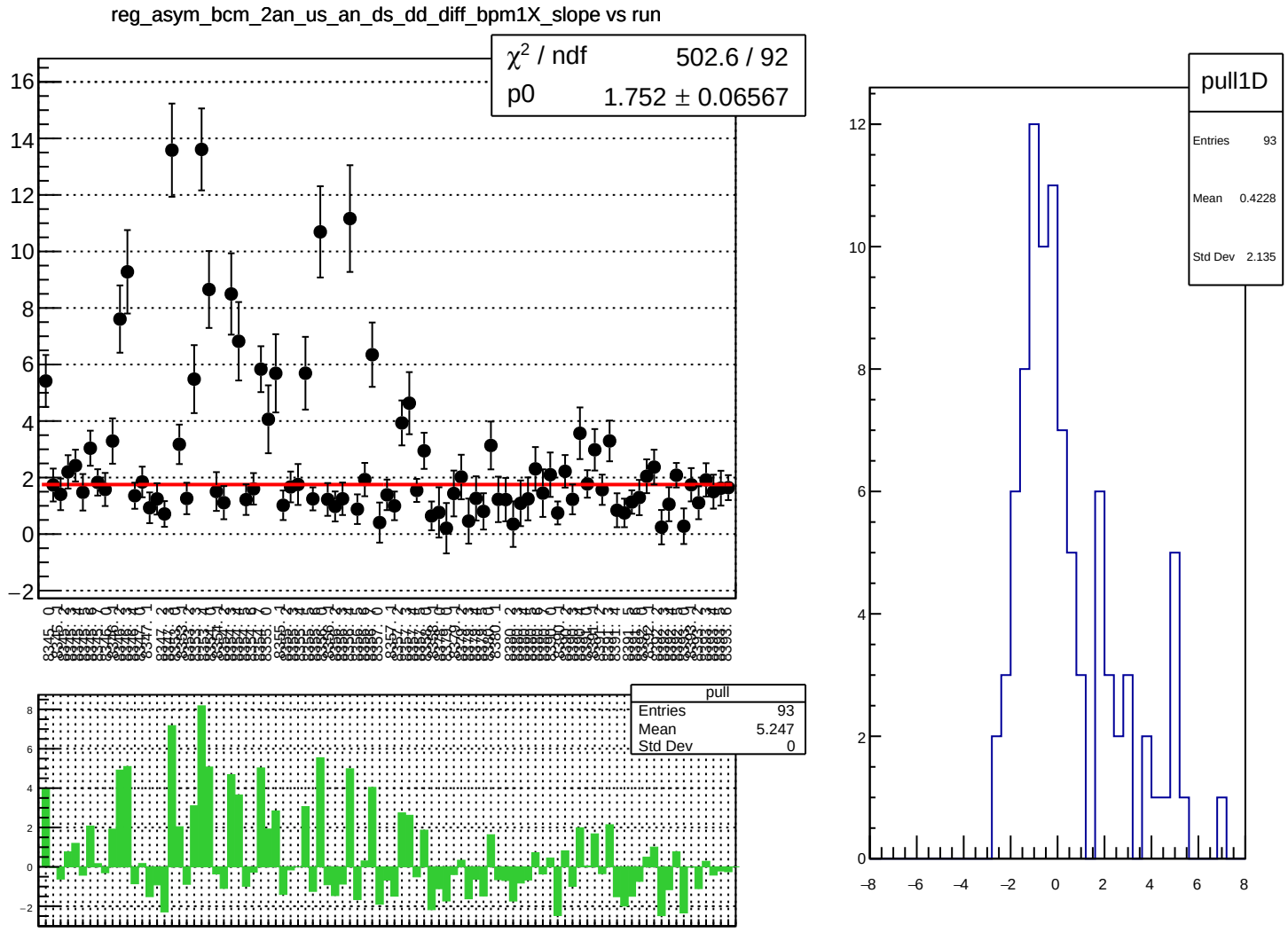

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 145.5 / 92
p0 2.157 ± 0.3239
pull
Entries 93
Mean −13.32
Std Dev 0

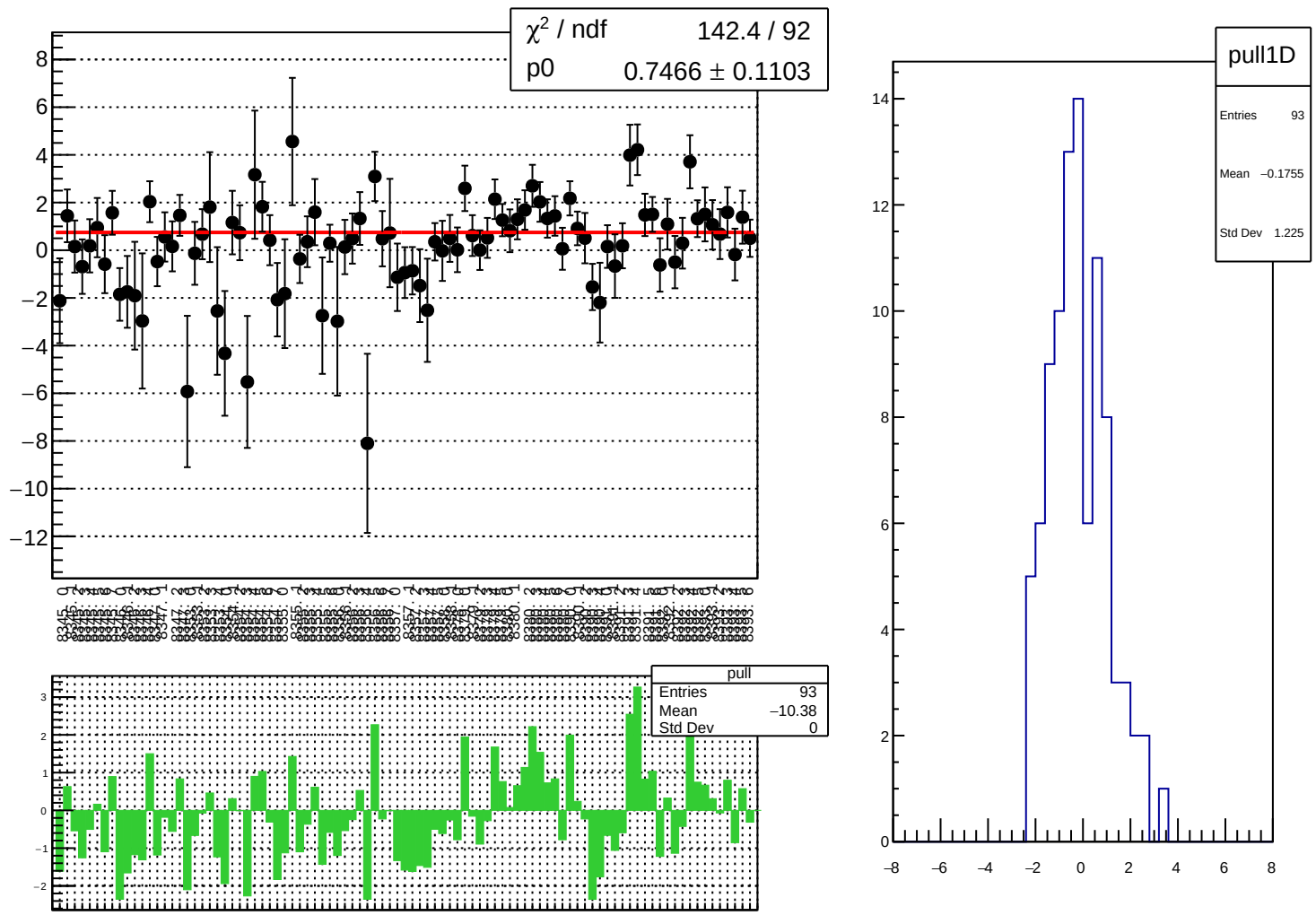

pull1D
Entries 93
Mean −0.1745
Std Dev 1.239

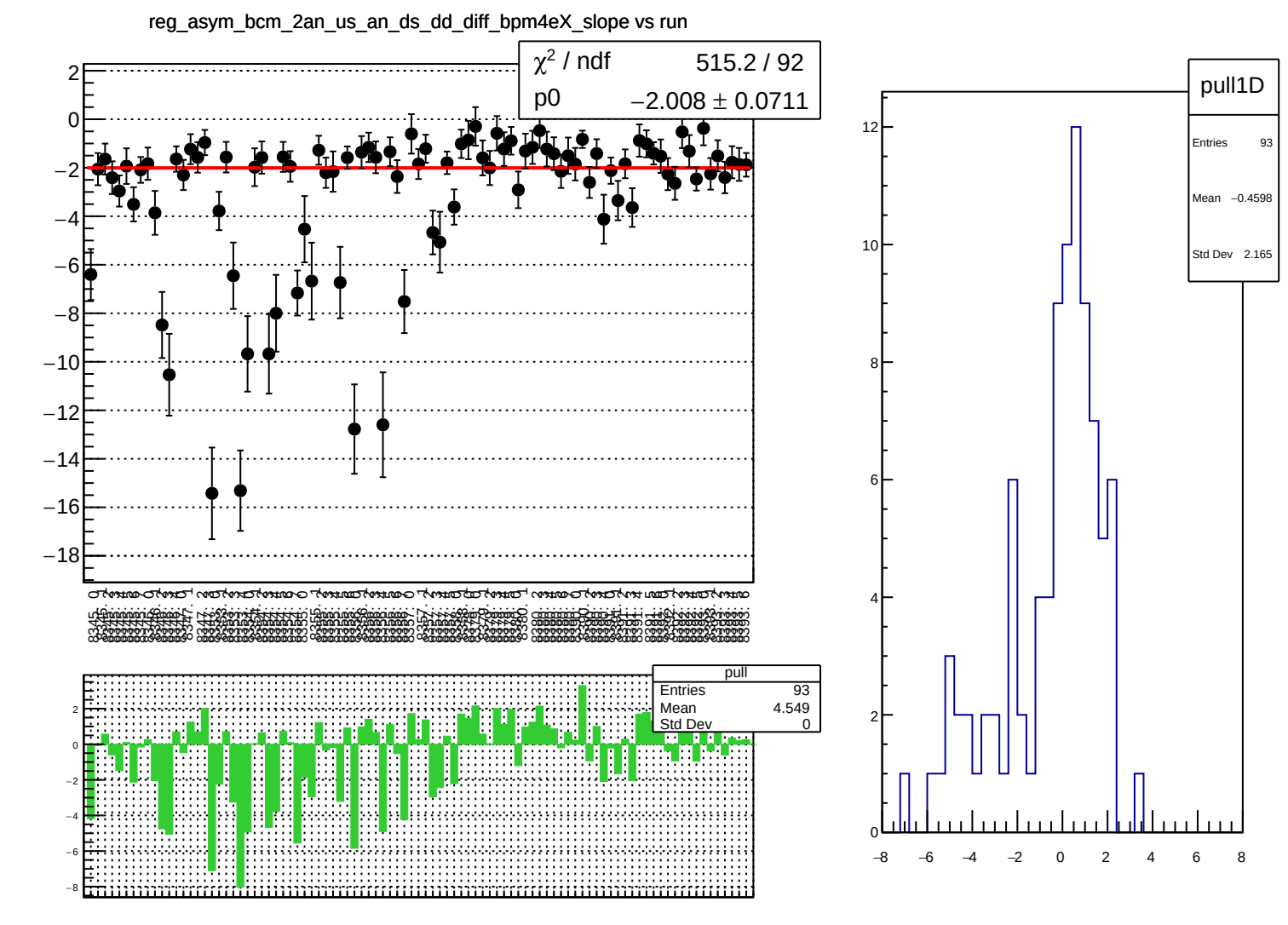

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 526.1 / 92
p0 −6.009 ± 0.2088
pull
Entries 93
Mean 5.269
Std Dev 0
pull1D
Entries 93
Mean −0.4695
Std Dev 2.187

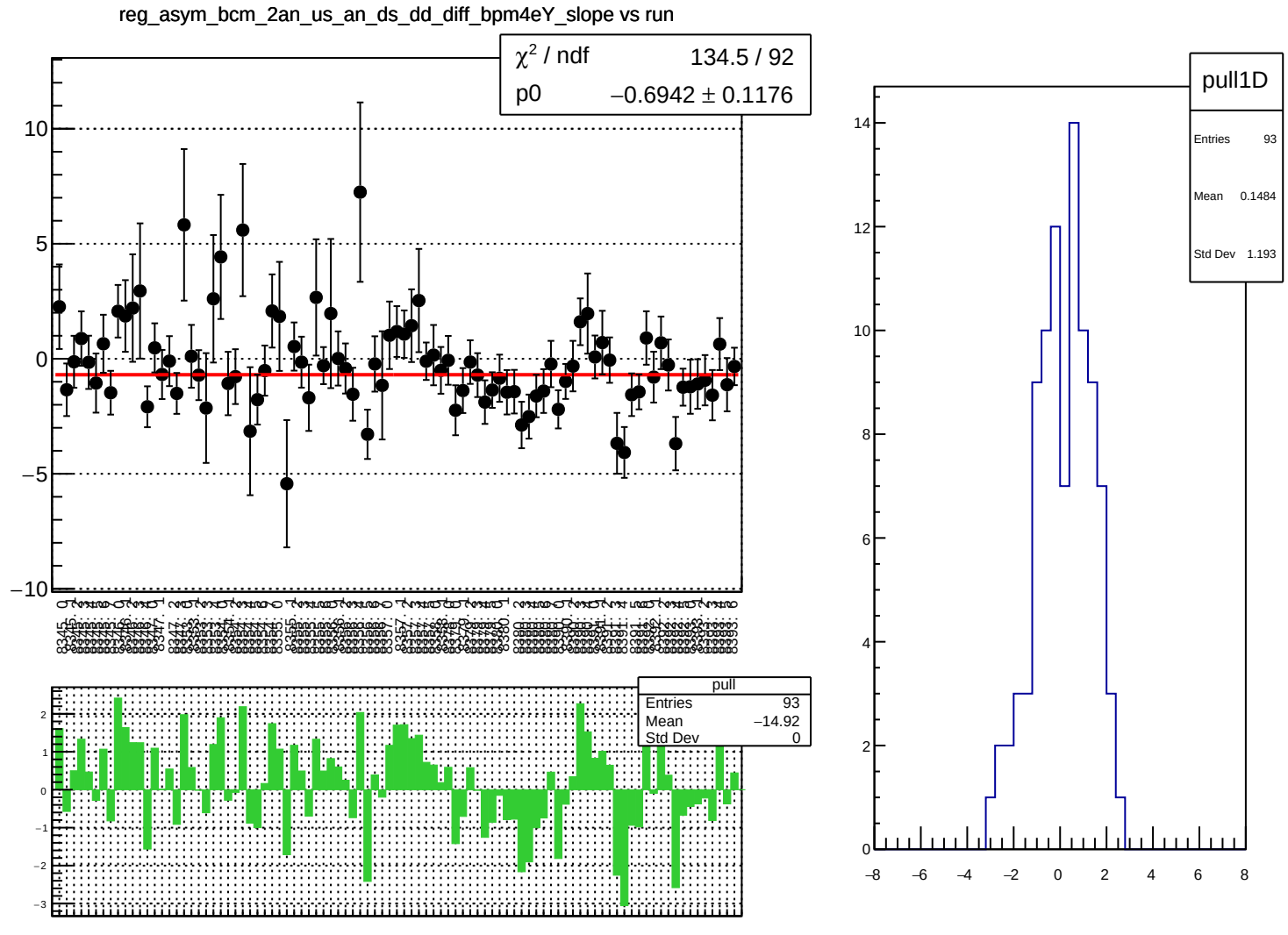

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 137 / 92
p0 −1.991 ± 0.3453
pull
Entries 93
Mean −18.04
Std Dev 0
pull1D
Entries 93
Mean 0.1476
Std Dev 1.205

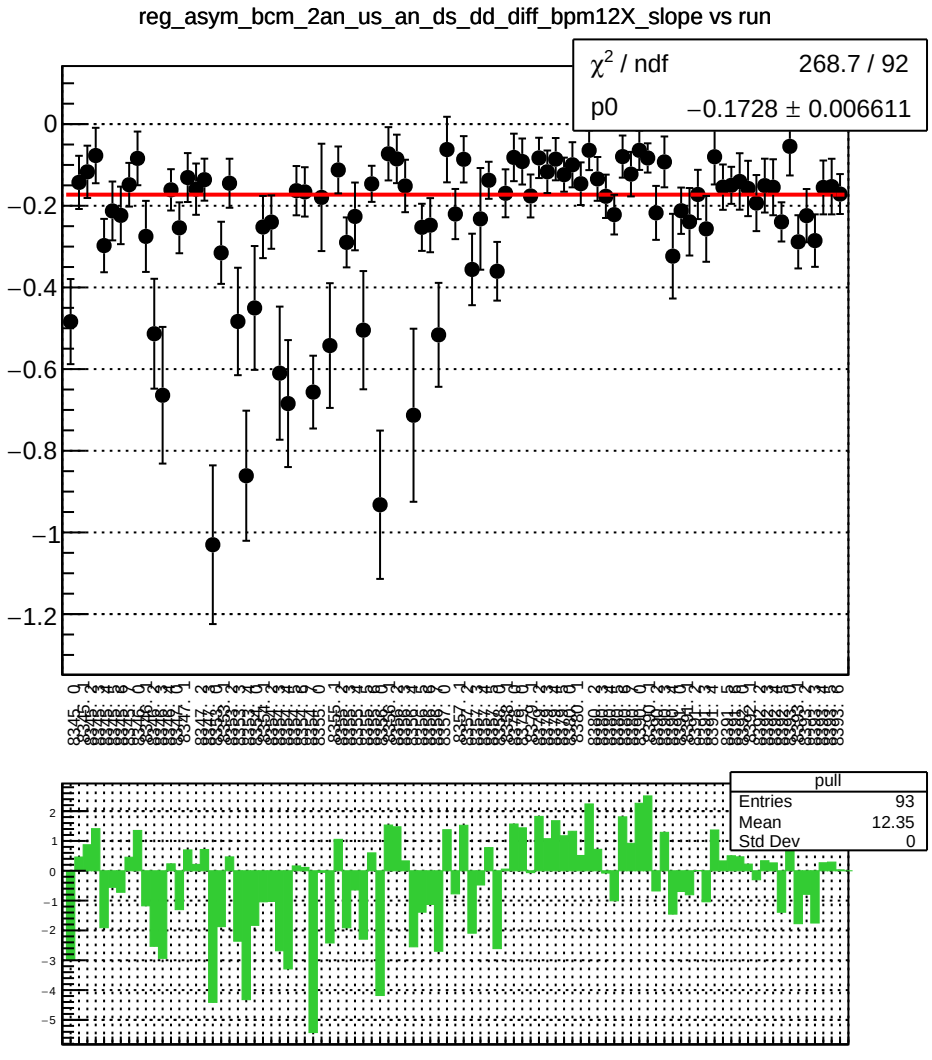

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 275.3 / 92
p0 −0.514 ± 0.01942
pull
Entries 93
Mean 12.63
Std Dev 0
pull1D
Entries 93
Mean −0.389
Std Dev 1.676

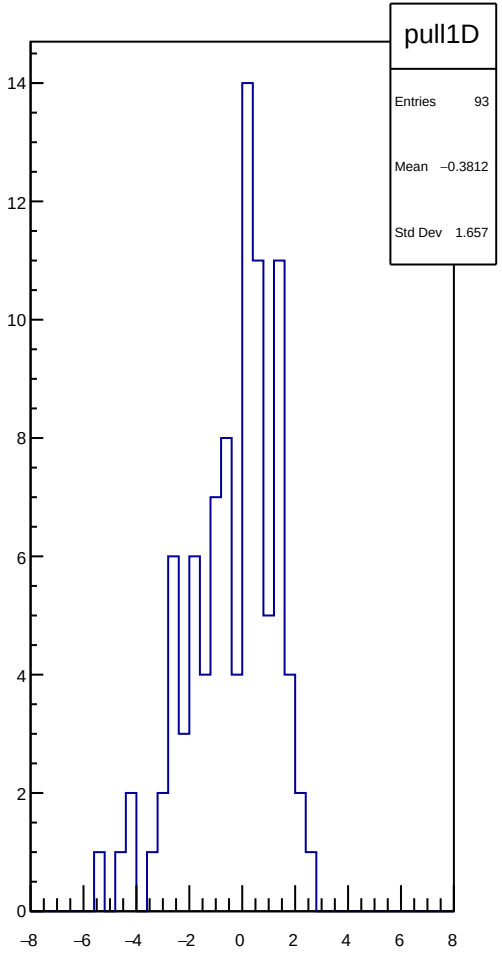

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 502.6 / 92
p0 1.752 ± 0.06567
pull
Entries 93
Mean 5.247
Std Dev 0
pull1D
Entries 93
Mean 0.4228
Std Dev 2.135

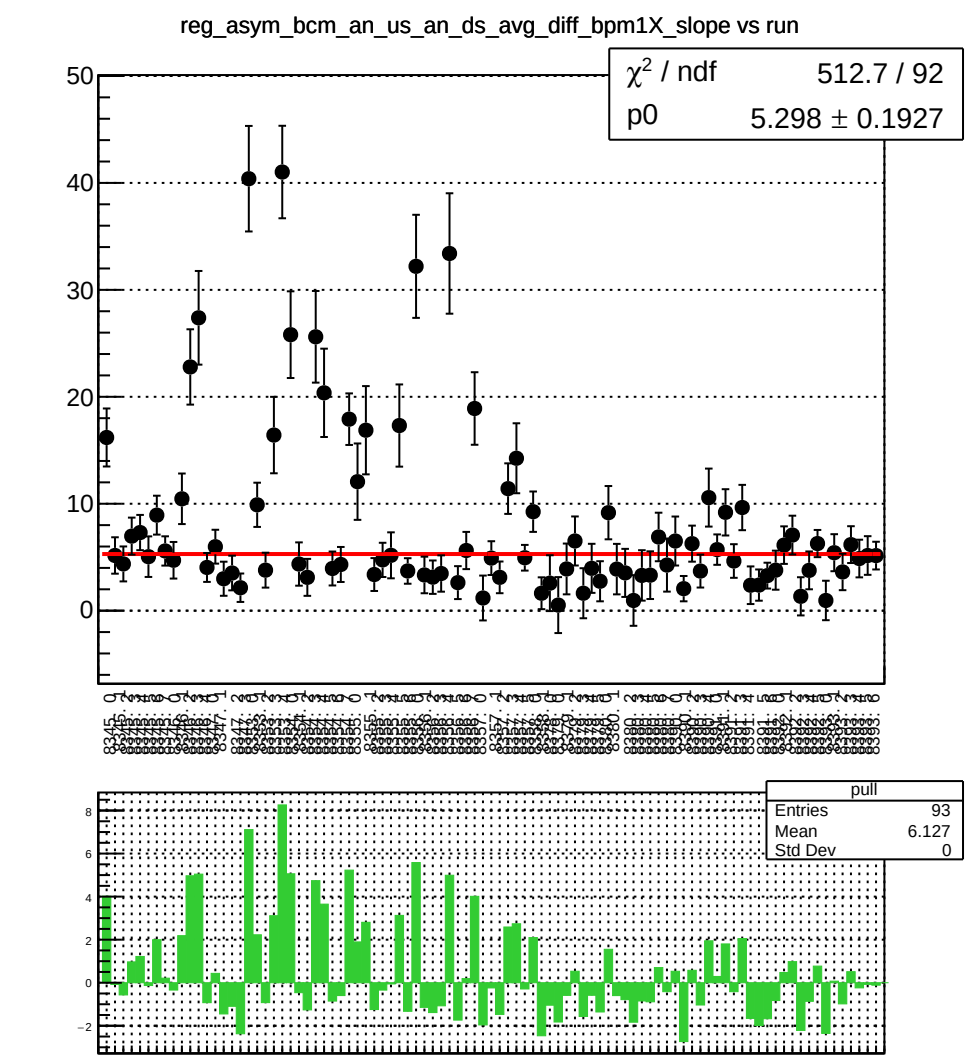

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 142.4 / 92
p0 0.7466 ± 0.1103
pull
Entries 93
Mean −10.38
Std Dev 0
pull1D
Entries 93
Mean −0.1755
Std Dev 1.225

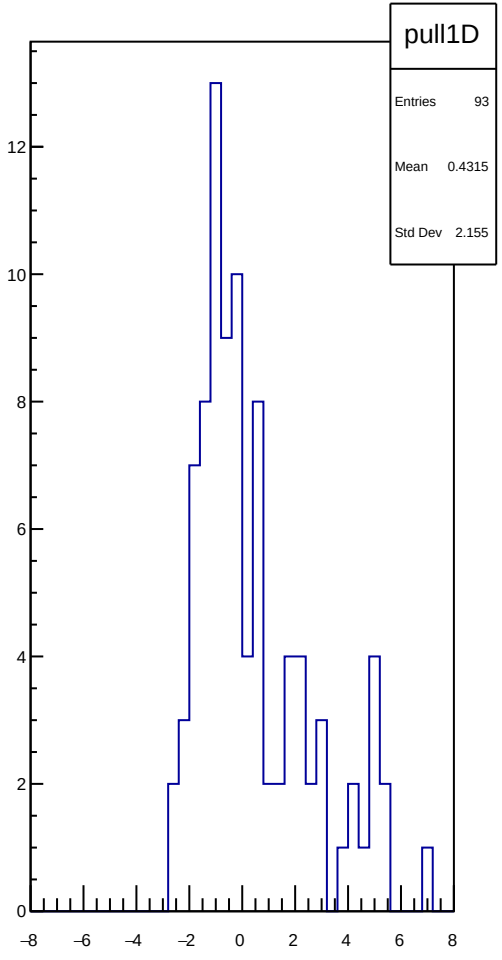

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 515.2 / 92
p0 −2.008 ± 0.0711
pull
Entries 93
Mean 4.549
Std Dev 0
pull1D
Entries 93
Mean −0.4598
Std Dev 2.165

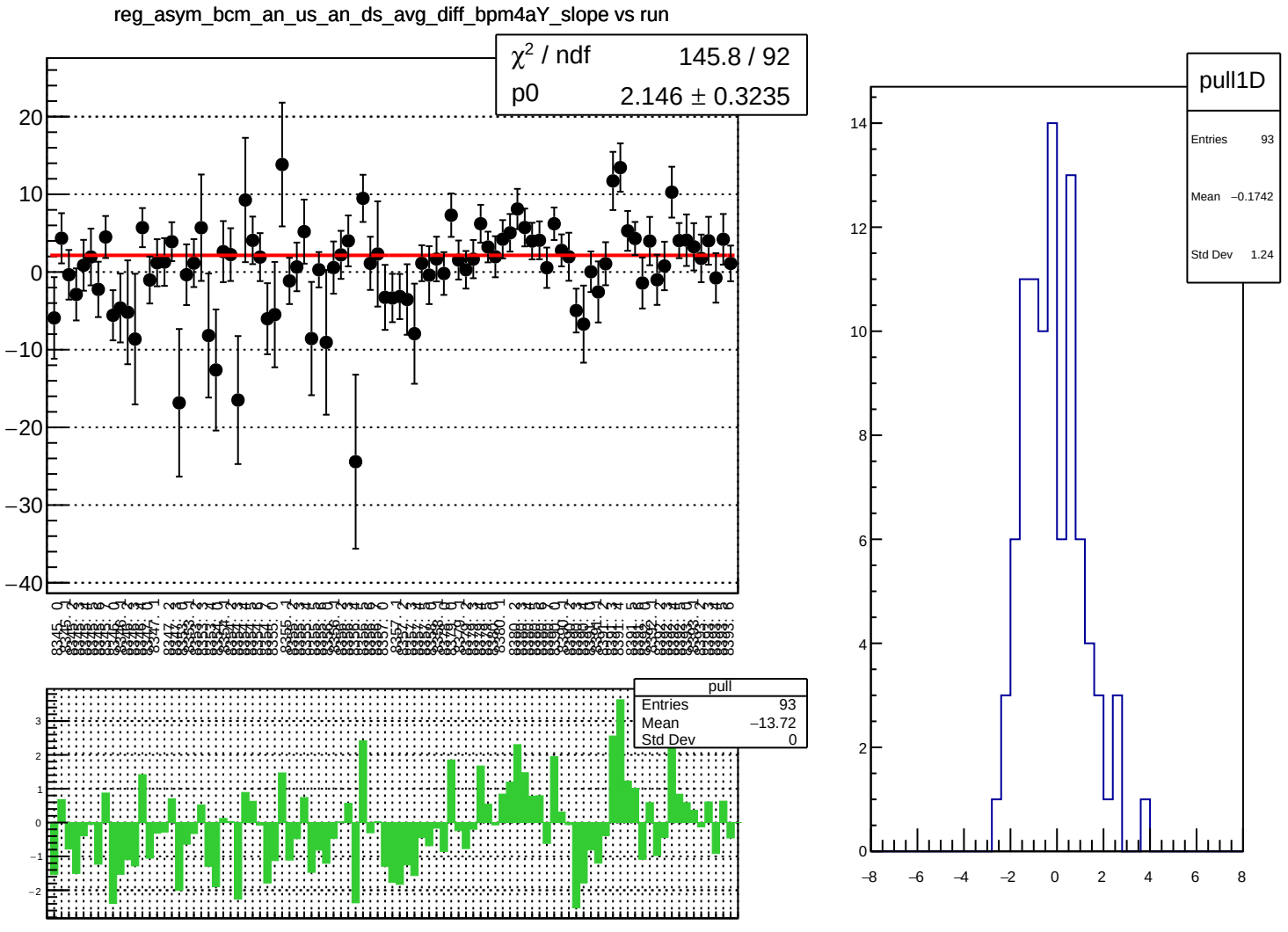

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 134.5 / 92
p0 −0.6942 ± 0.1176
pull
Entries 93
Mean −14.92
Std Dev 0
pull1D
Entries 93
Mean 0.1484
Std Dev 1.193

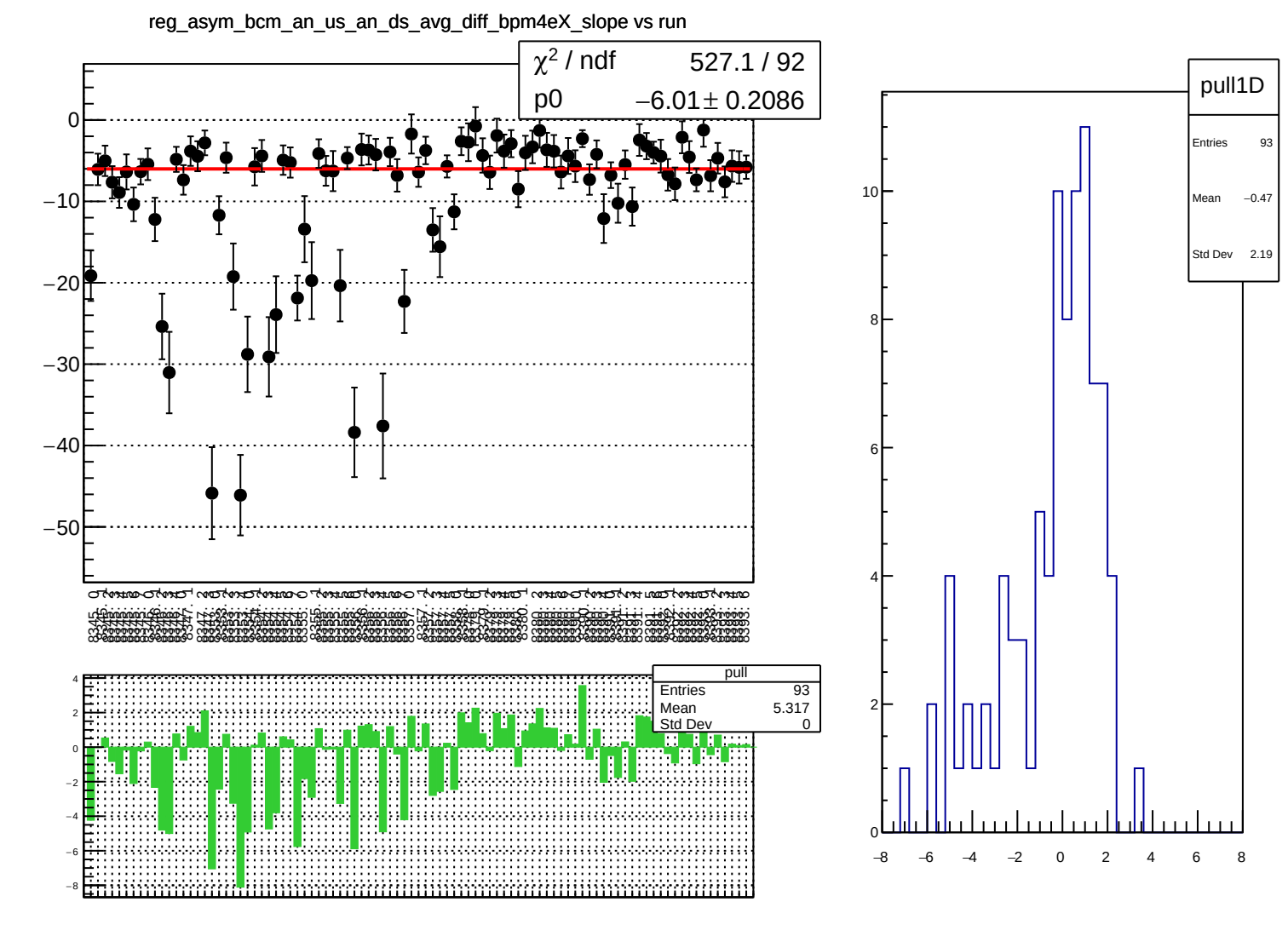

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 268.7 / 92
p0 −0.1728 ± 0.006611
pull
Entries 93
Mean 12.35
Std Dev 0

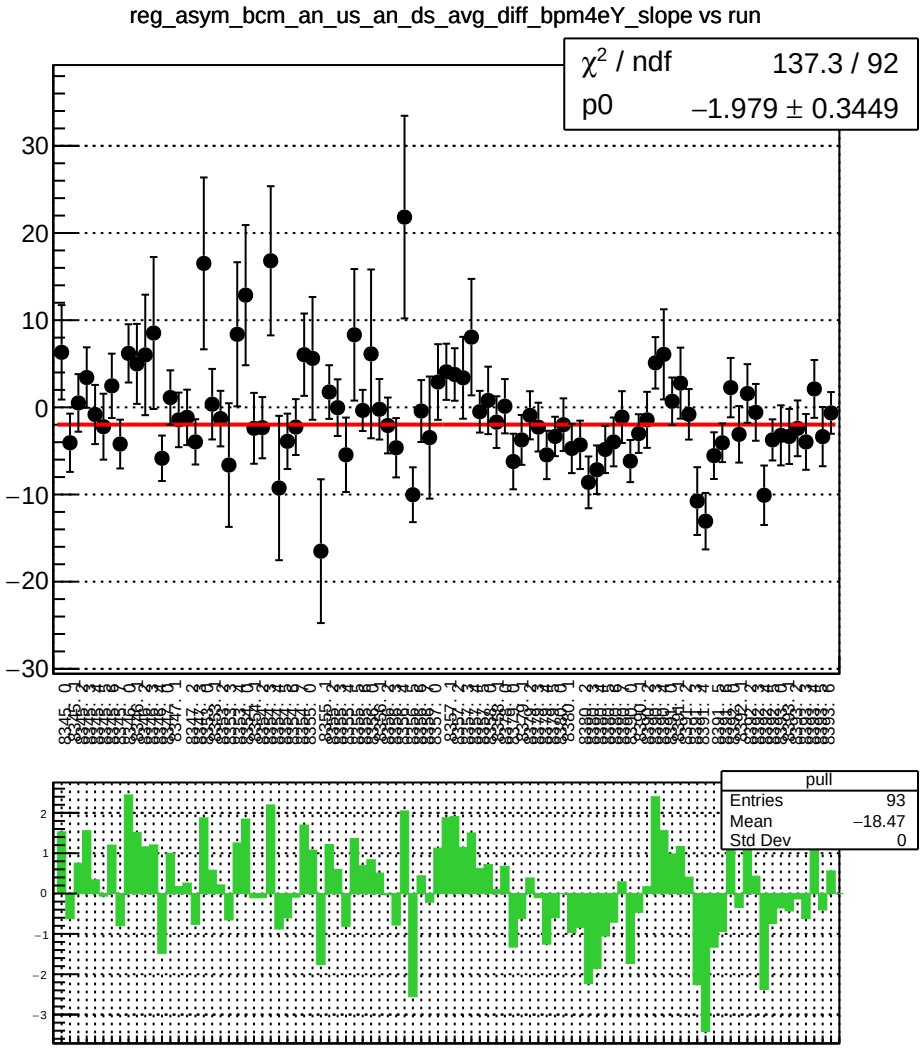

pull1D
Entries 93
Mean −0.3812
Std Dev 1.657

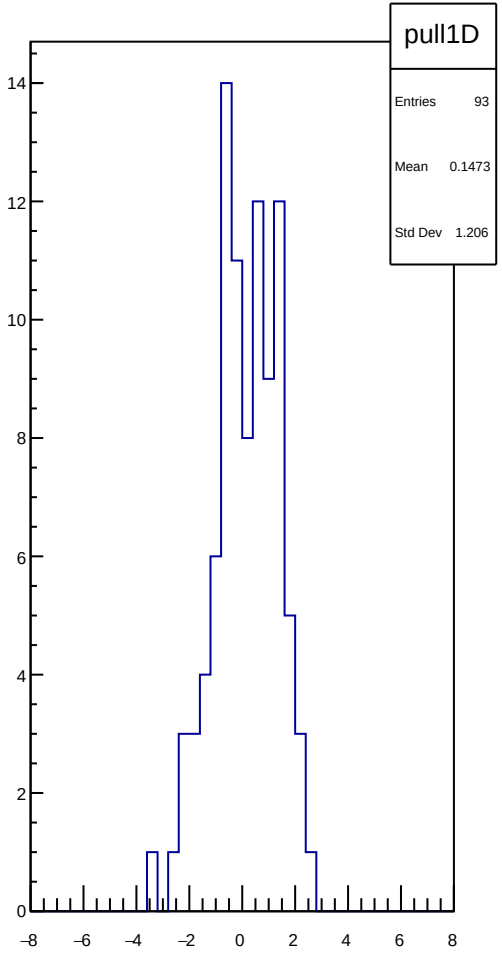

reg_asym_bcm_an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 512.7 / 92
p0 5.298 ± 0.1927
pull
Entries 93
Mean 6.127
Std Dev 0

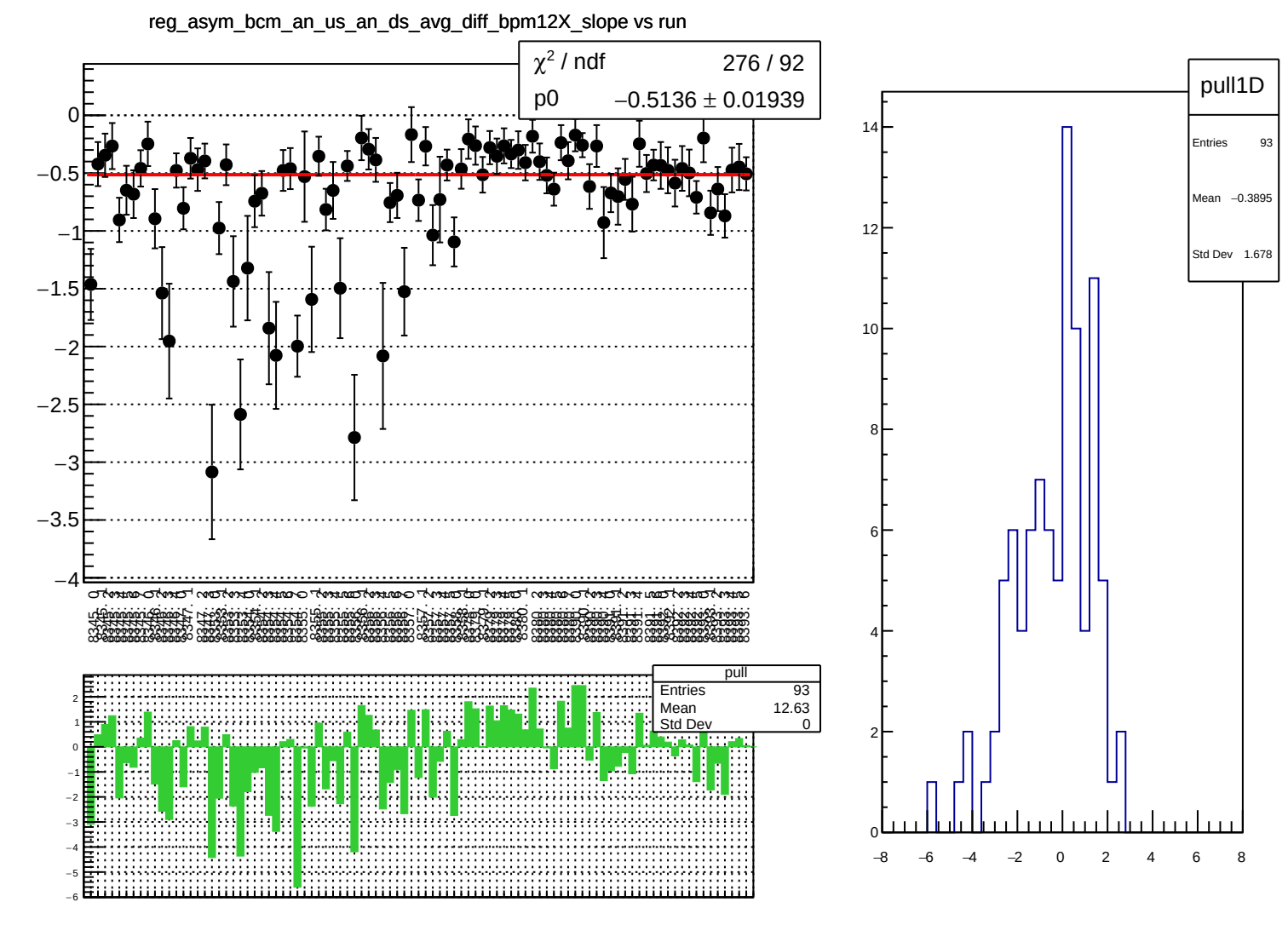

pull1D
Entries 93
Mean 0.4315
Std Dev 2.155

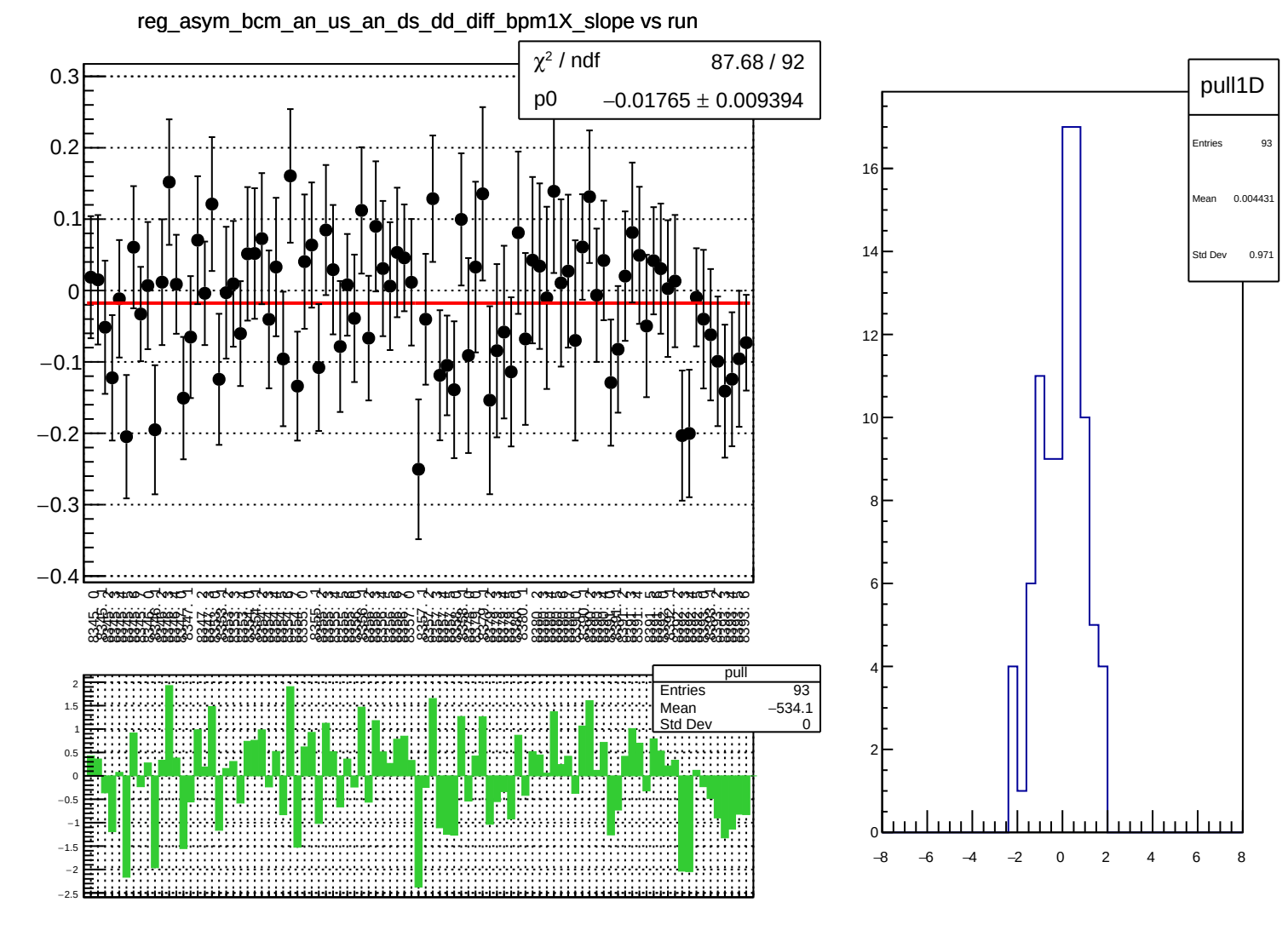

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 145.8 / 92
p0 2.146 ± 0.3235
pull
Entries 93
Mean −13.72
Std Dev 0
pull1D
Entries 93
Mean −0.1742
Std Dev 1.24

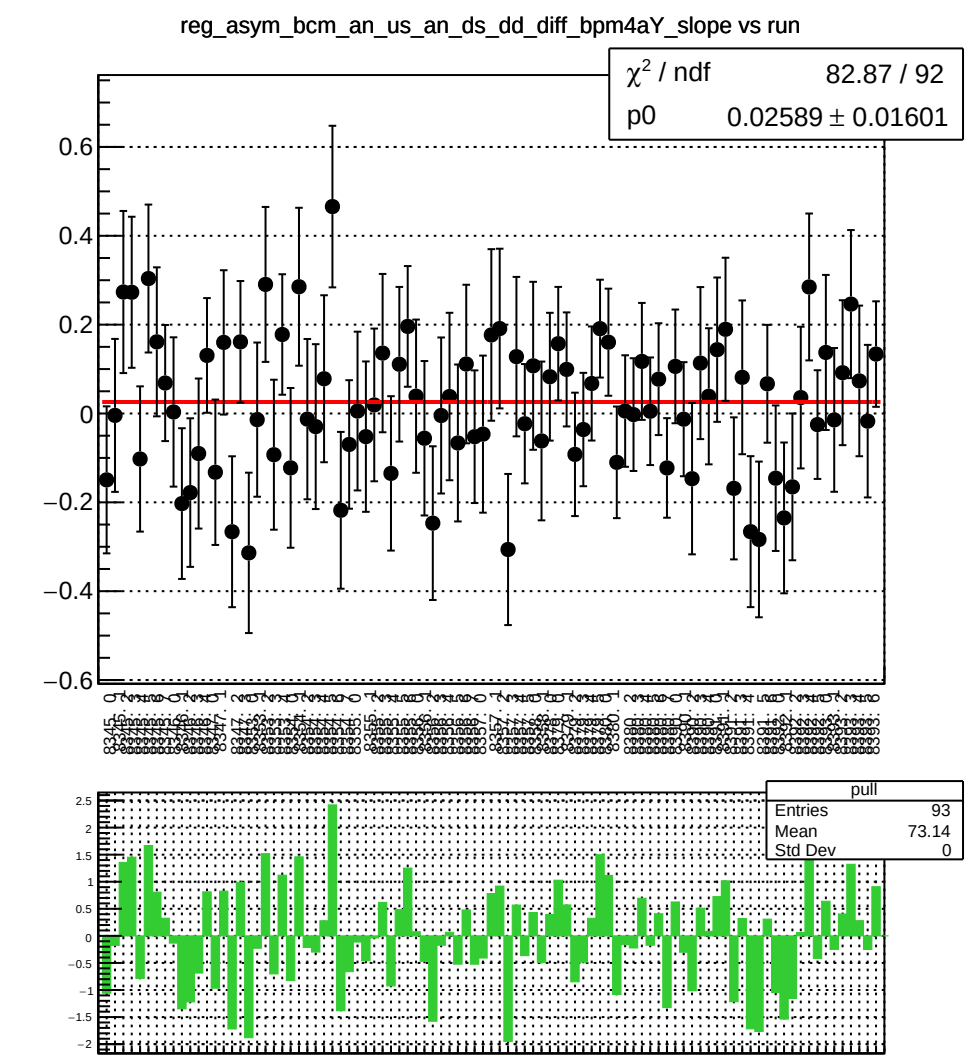

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 527.1 / 92
p0 −6.01 ± 0.2086
pull
Entries 93
Mean 5.317
Std Dev 0
pull1D
Entries 93
Mean −0.47
Std Dev 2.19

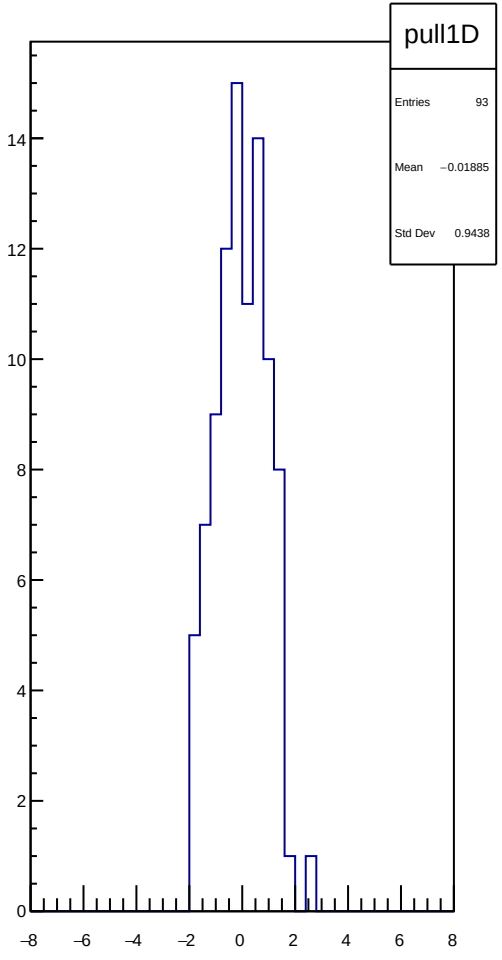

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 137.3 / 92
p0 −1.979 ± 0.3449
pull
Entries 93
Mean −18.47
Std Dev 0

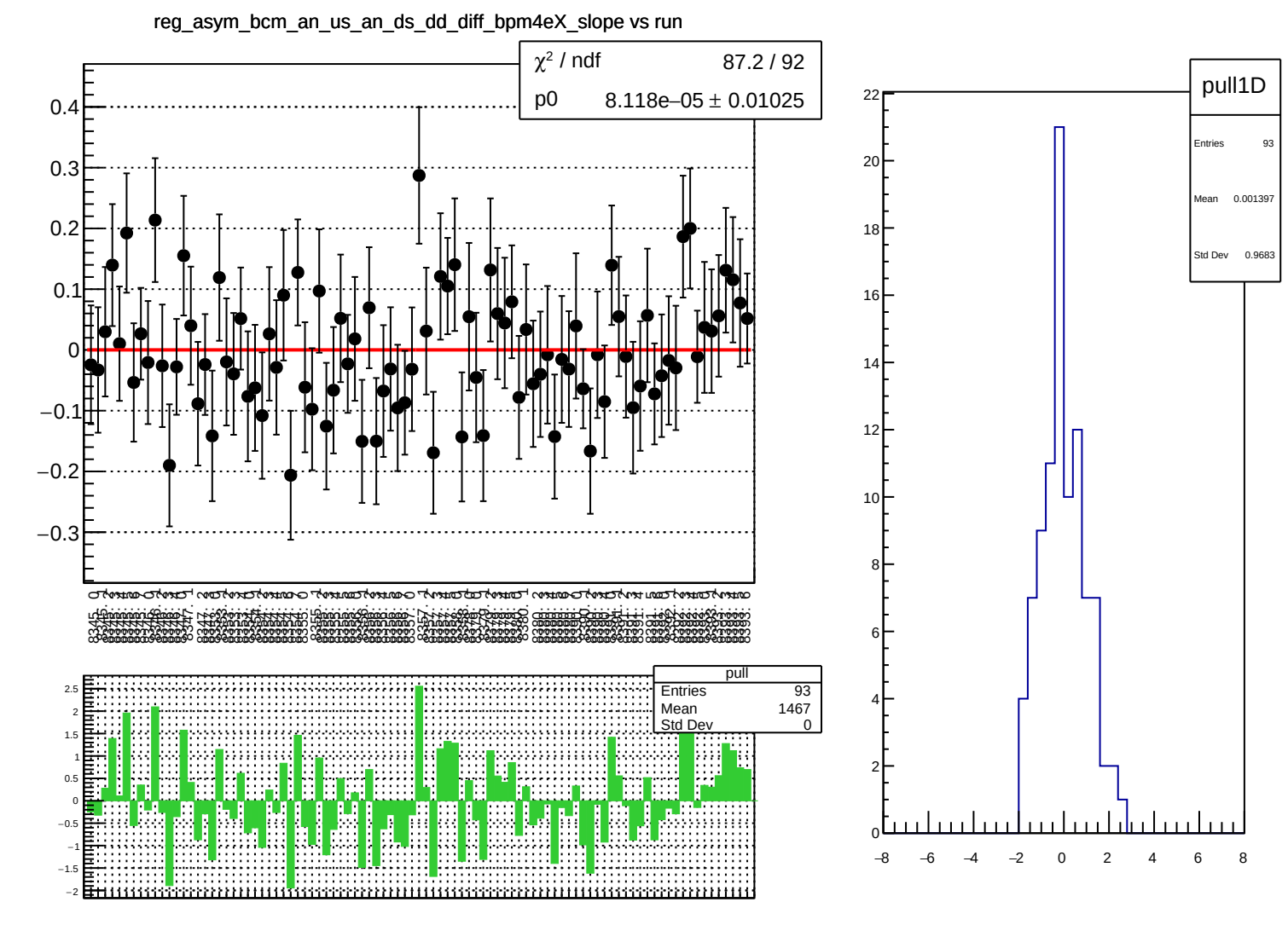

pull1D
Entries 93
Mean 0.1473
Std Dev 1.206

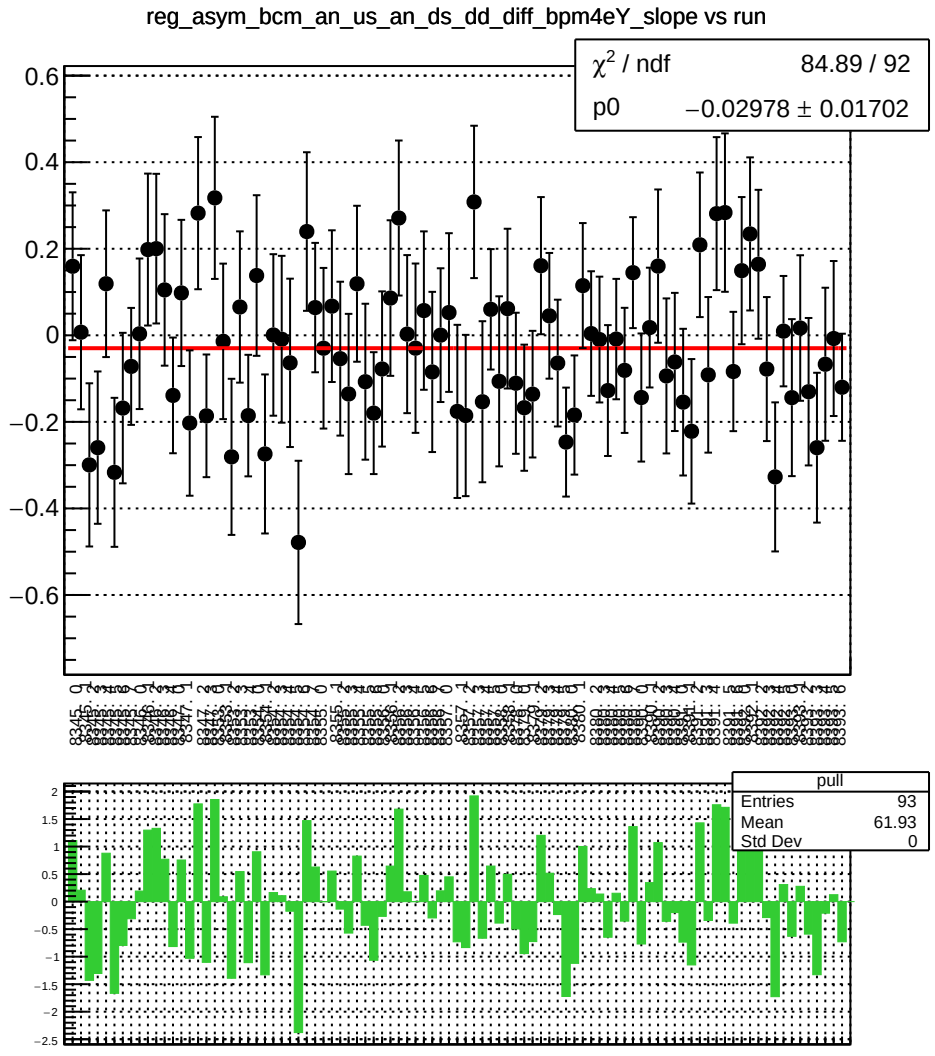

reg_asym_bcm_an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 276 / 92
p0 −0.5136 ± 0.01939
pull
Entries 93
Mean 12.63
Std Dev 0
pull1D
Entries 93
Mean −0.3895
Std Dev 1.678

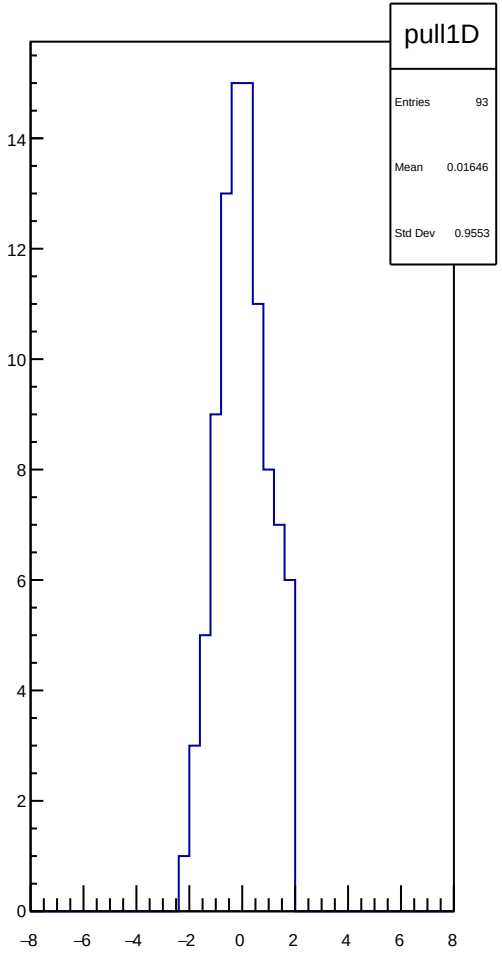

reg_asym_bcm_an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 87.68 / 92
p0 −0.01765 ± 0.009394
pull
Entries 93
Mean −534.1
Std Dev 0
pull1D
Entries 93
Mean 0.004431
Std Dev 0.971

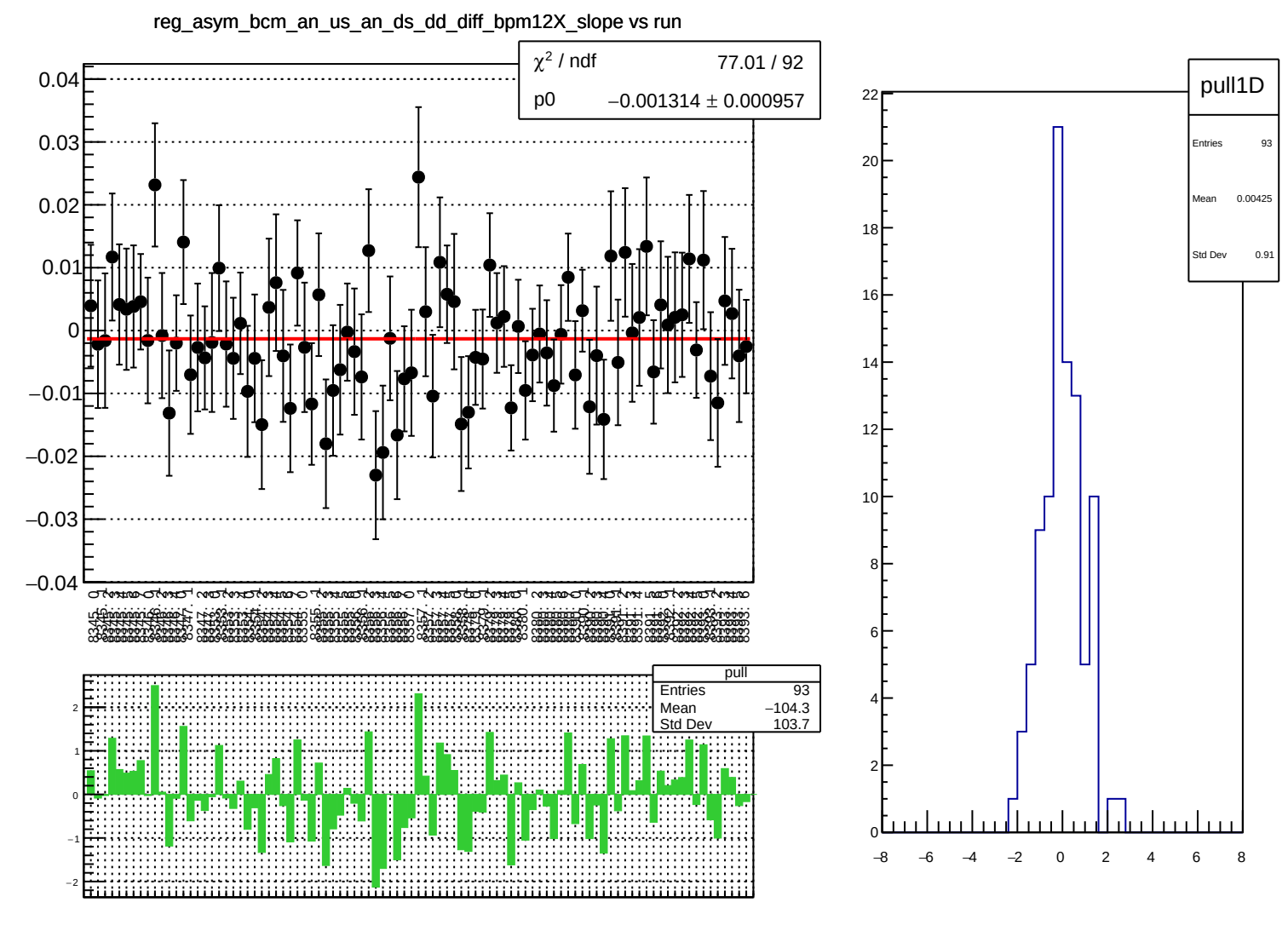

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 82.87 / 92
p0 0.02589 ± 0.01601
pull
Entries 93
Mean 73.14
Std Dev 0

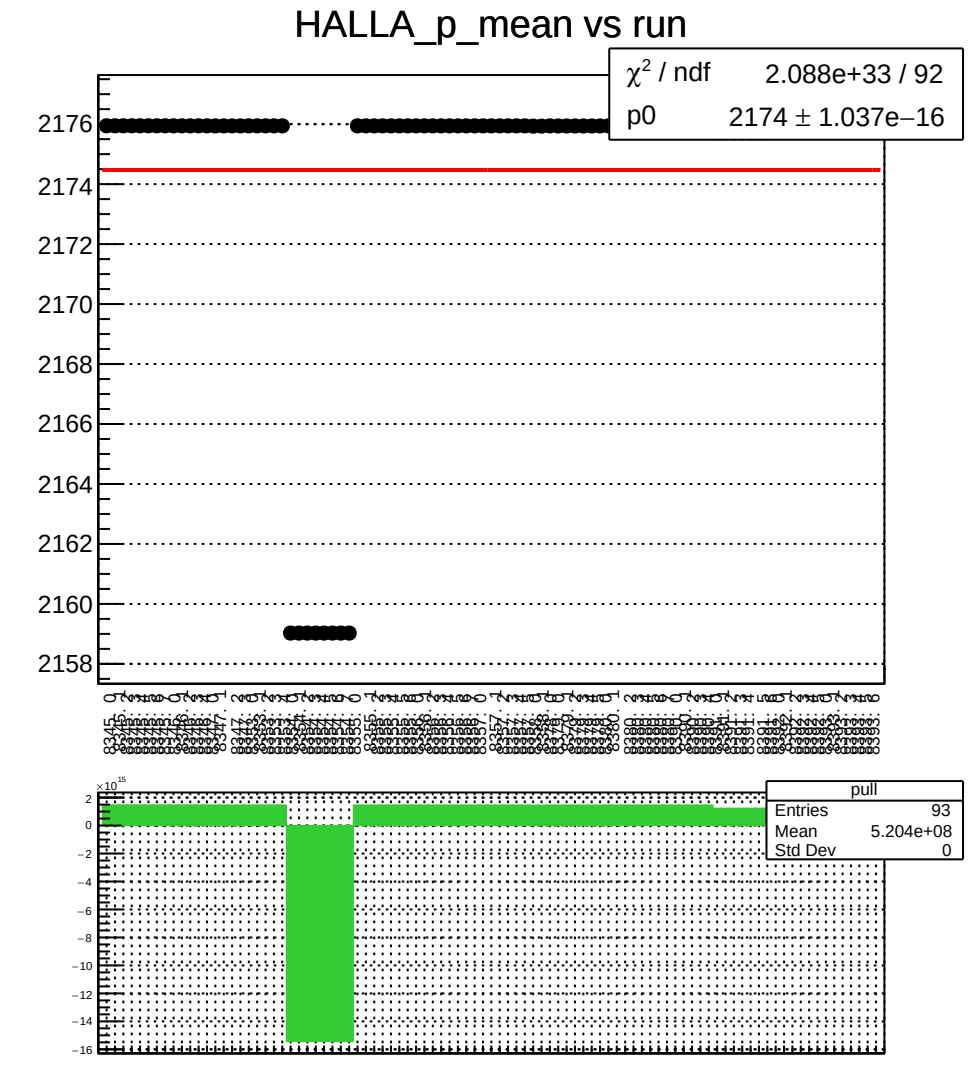

pull1D
Entries 93
Mean −0.01885
Std Dev 0.9438

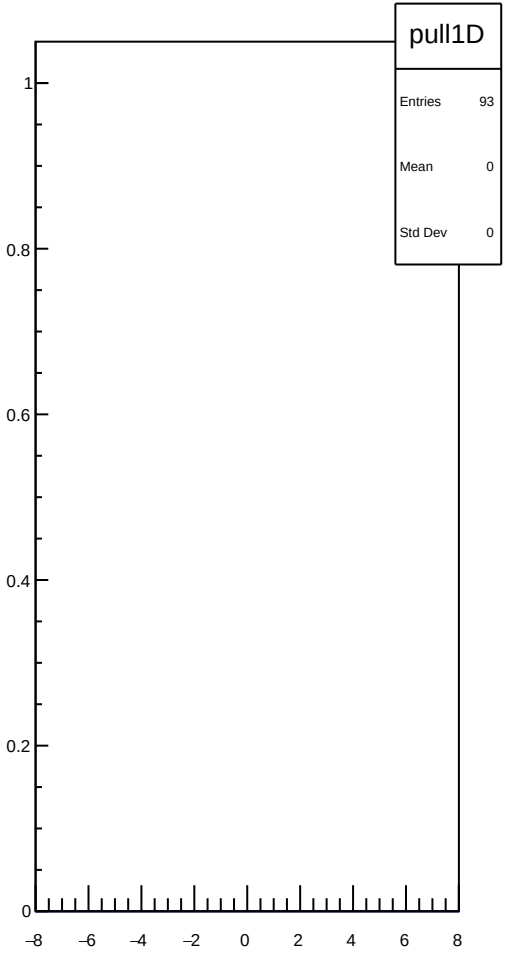

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 87.2 / 92
p0 8.118e−05 ± 0.01025
pull
Entries 93
Mean 1467
Std Dev 0
pull1D
Entries 93
Mean 0.001397
Std Dev 0.9683

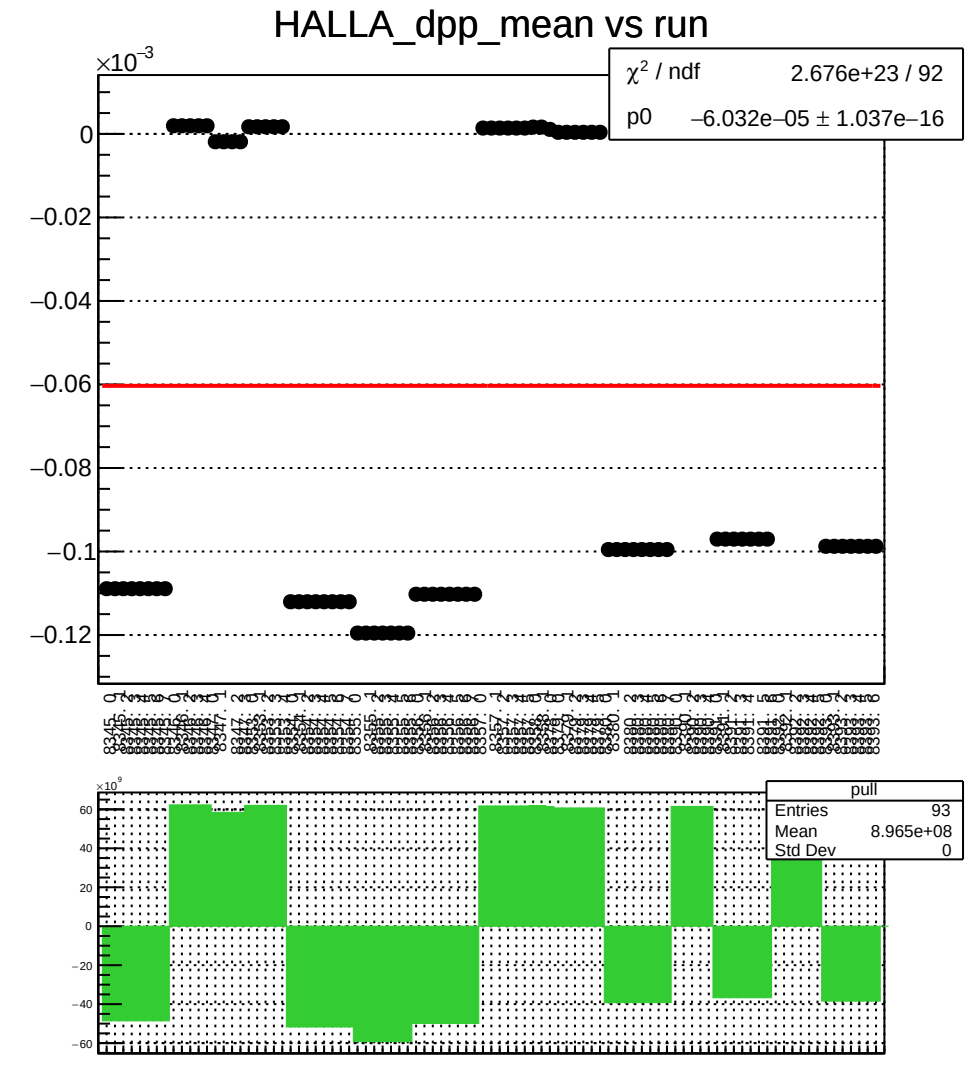

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 84.89 / 92
p0 −0.02978 ± 0.01702
pull
Entries 93
Mean 61.93
Std Dev 0

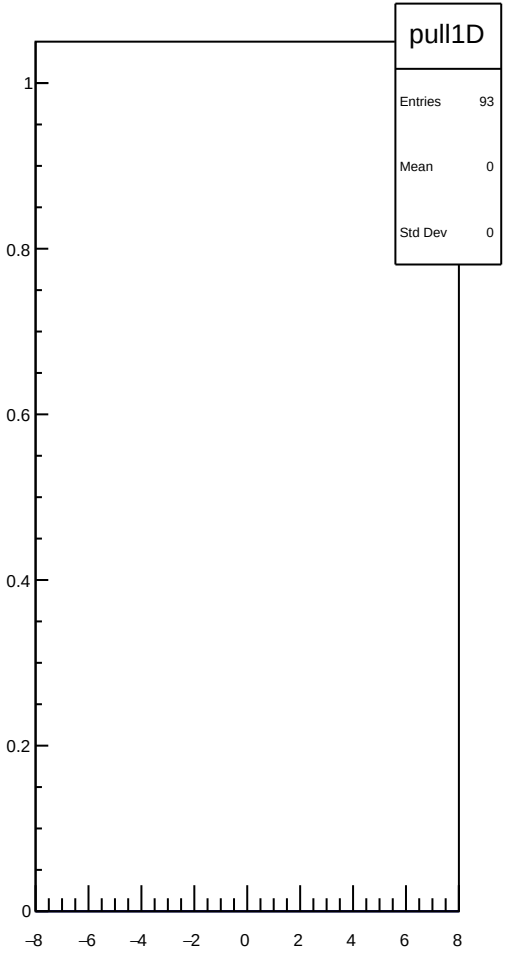

pull1D
Entries 93
Mean 0.01646
Std Dev 0.9553

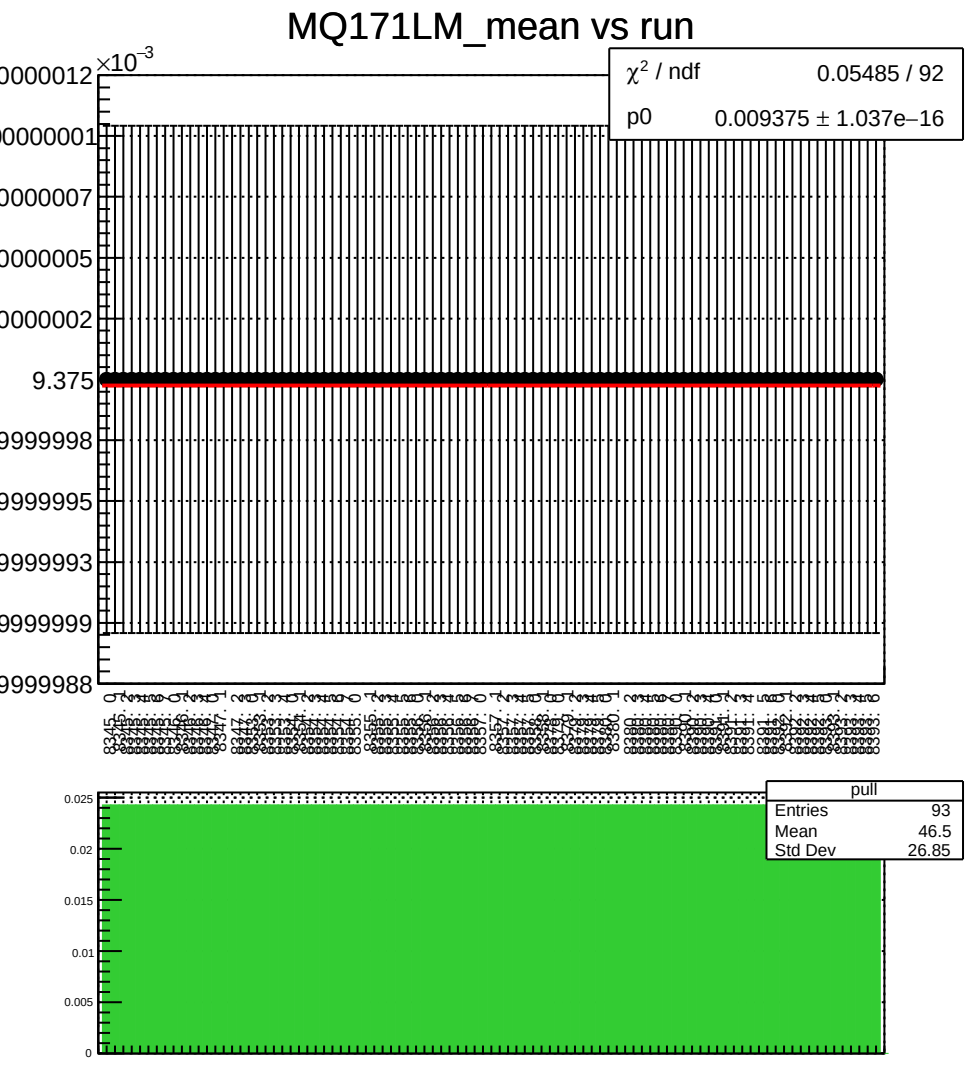

reg_asym_bcm_an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 77.01 / 92
p0 −0.001314 ± 0.000957
pull
Entries 93
Mean −104.3
Std Dev 103.7
pull1D
Entries 93
Mean 0.00425
Std Dev 0.91

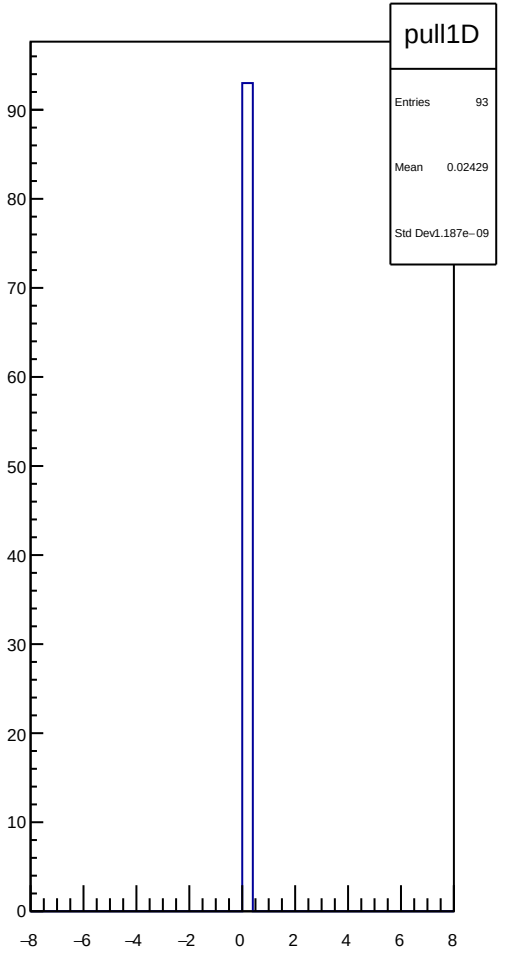

HALLA_p_mean vs run
χ² / ndf 2.088e+33 / 92
p0 2174 ± 1.037e−16
2176
2174
2172
2170
2168
2166
2164
2162
2160
2158
pull
Entries 93
Mean 5.204e+08
Std Dev 0
×10¹⁵
2
0
−2
−4
−6
−8
−10
−12
−14
−16

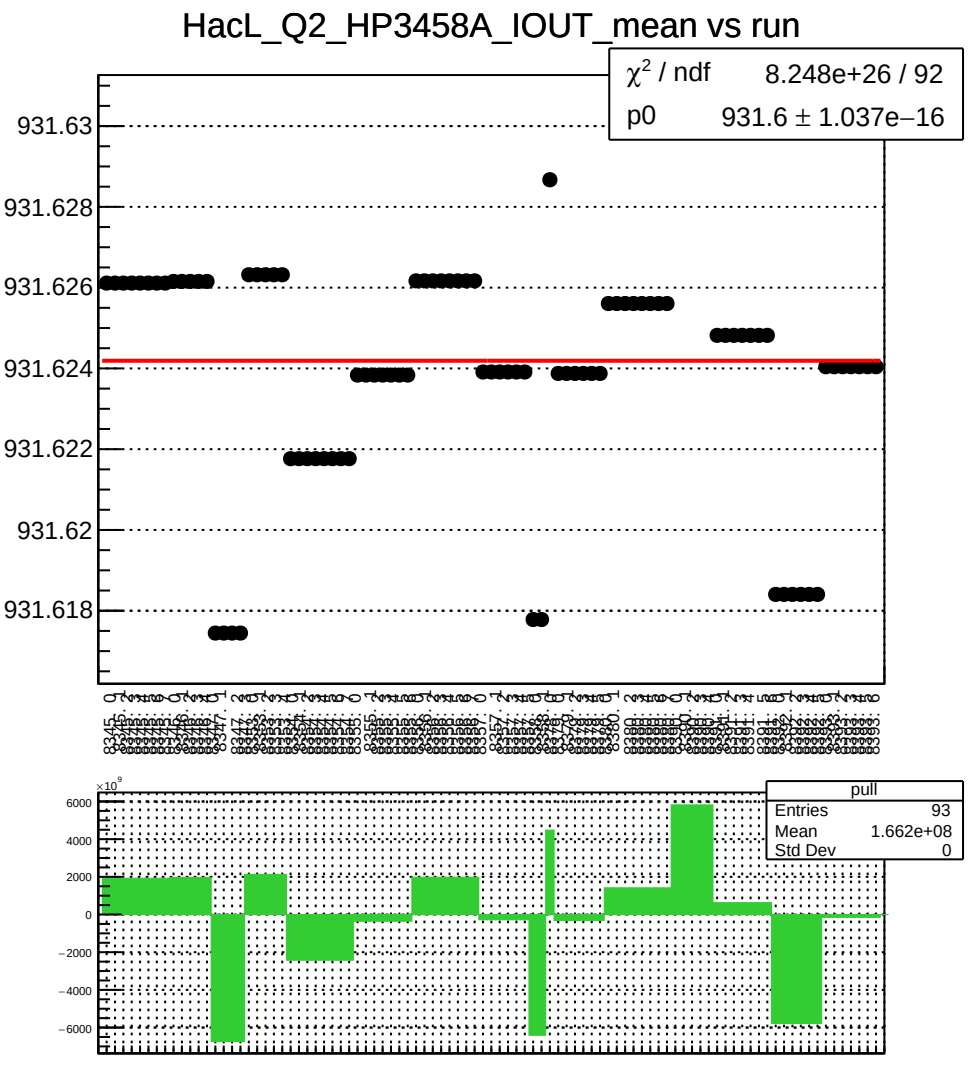

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

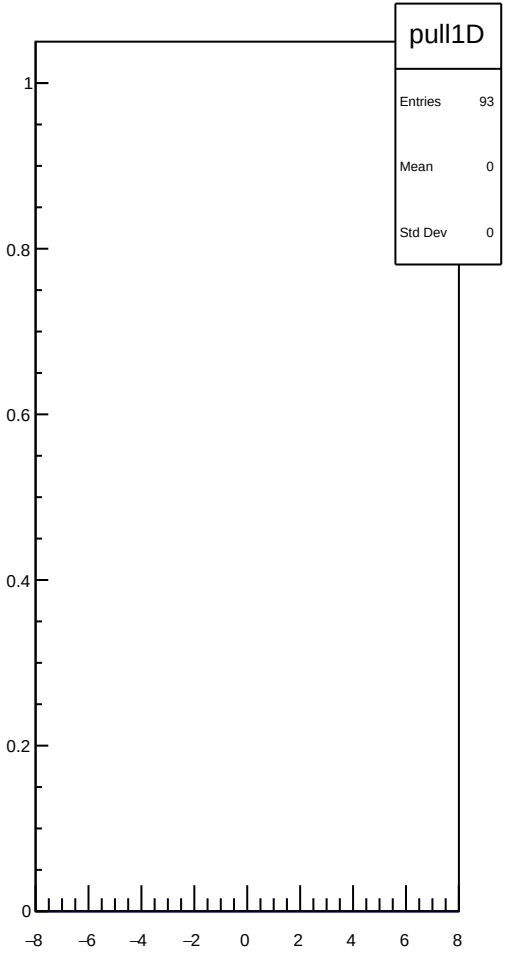

HALLA_dpp_mean vs run
×10⁻³
χ² / ndf 2.676e+23 / 92
p0 −6.032e−05 ± 1.037e−16
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
×10⁹
pull
Entries 93
Mean 8.965e+08
Std Dev 0
60
40
20
0
−20
−40
−60

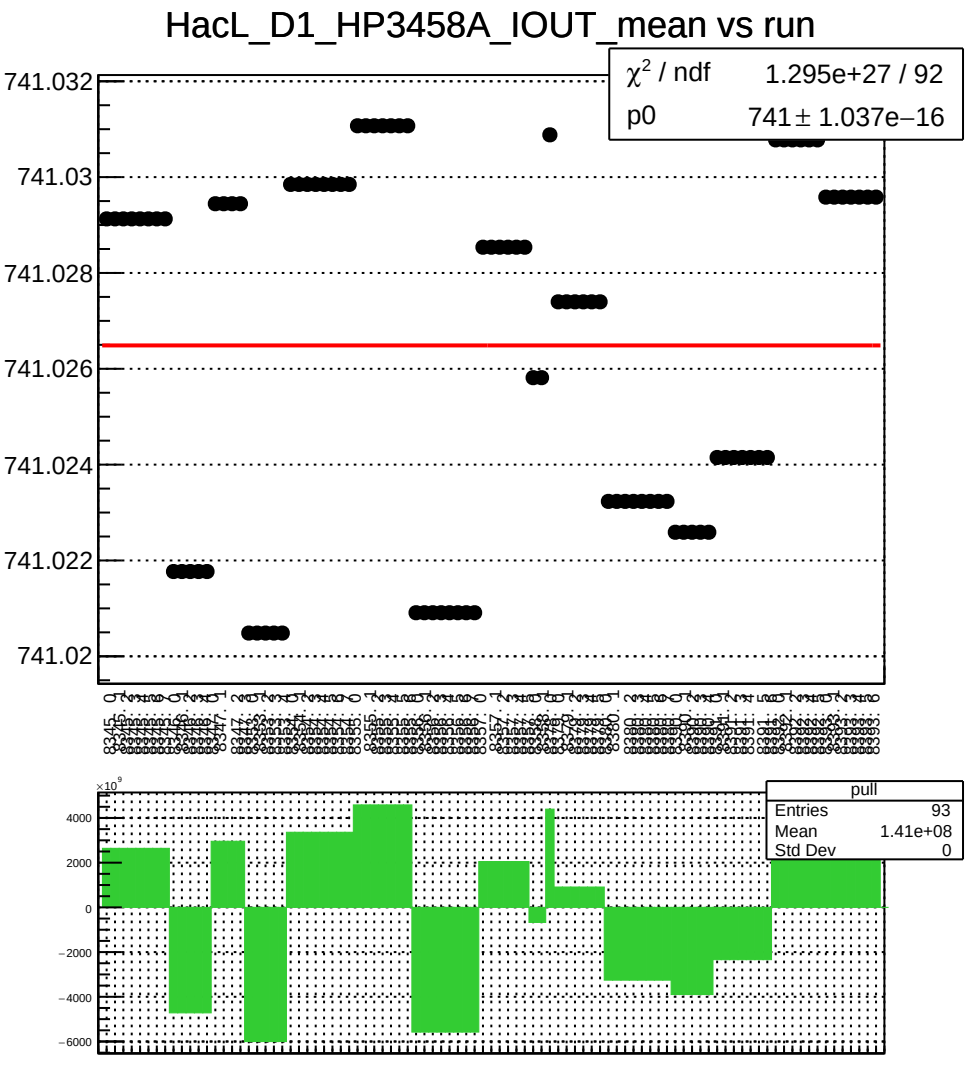

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

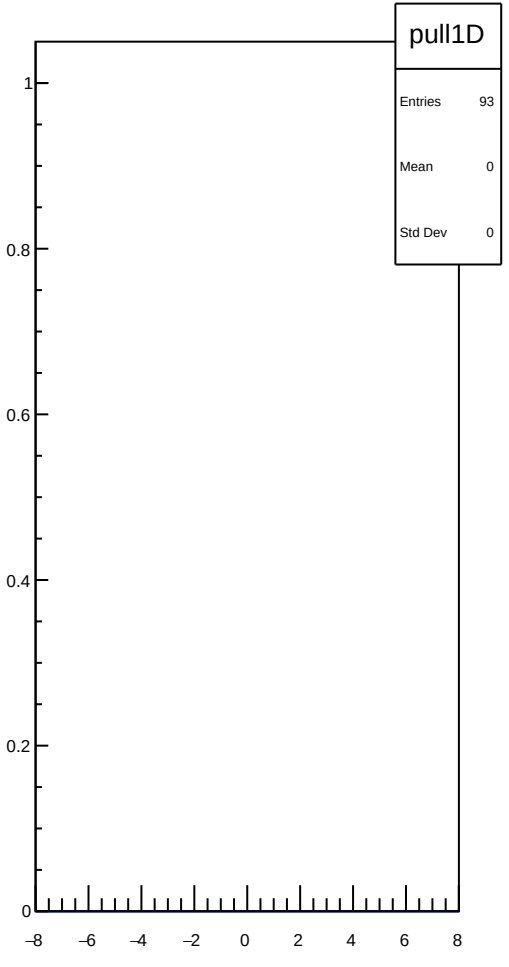

MQ171LM_mean vs run
×10⁻³
χ² / ndf 0.05485 / 92
p0 0.009375 ± 1.037e−16
pull
Entries 93
Mean 46.5
Std Dev 26.85

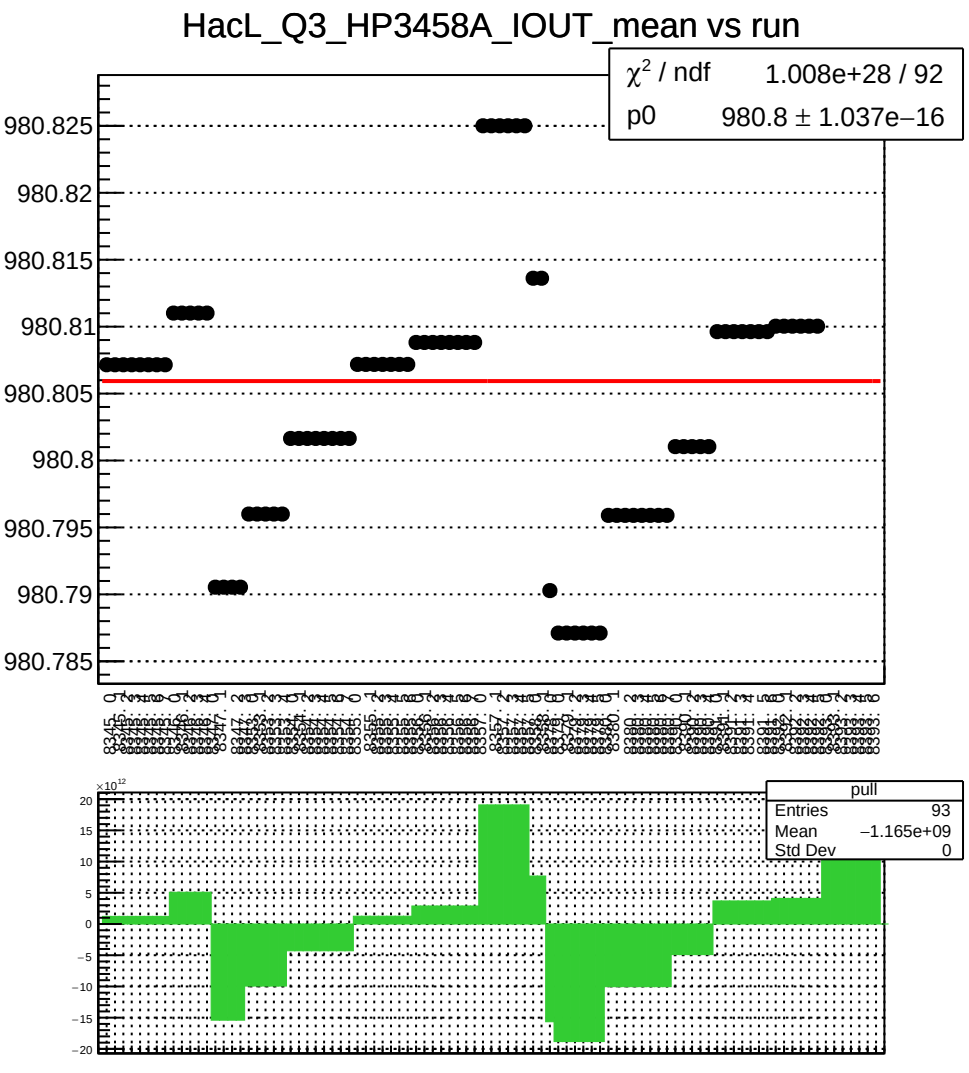

pull1D
Entries 93
Mean 0.02429
Std Dev1.187e−09

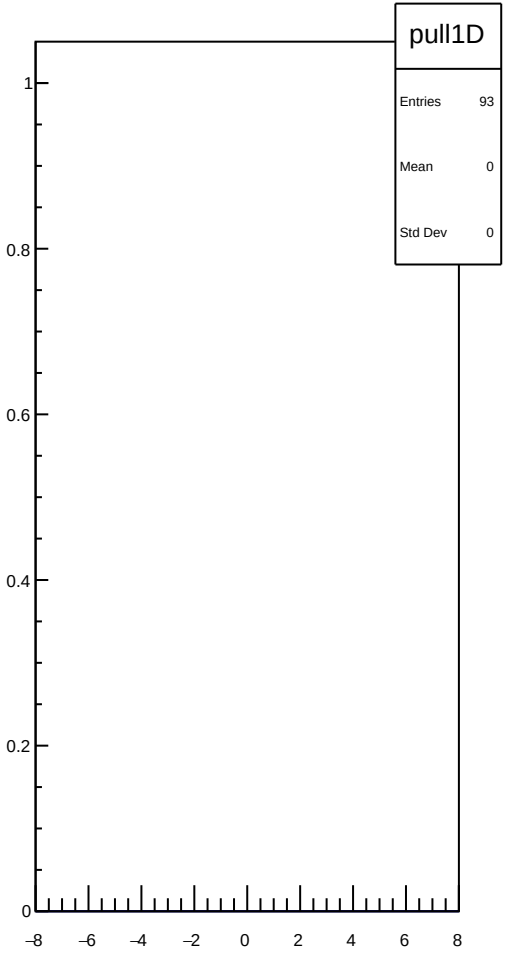

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 8.248e+26 / 92
p0 931.6 ± 1.037e−16
931.63
931.628
931.626
931.624
931.622
931.62
931.618
pull
Entries 93
Mean 1.662e+08
Std Dev 0
×10⁹
6000
4000
2000
0
−2000
−4000
−6000

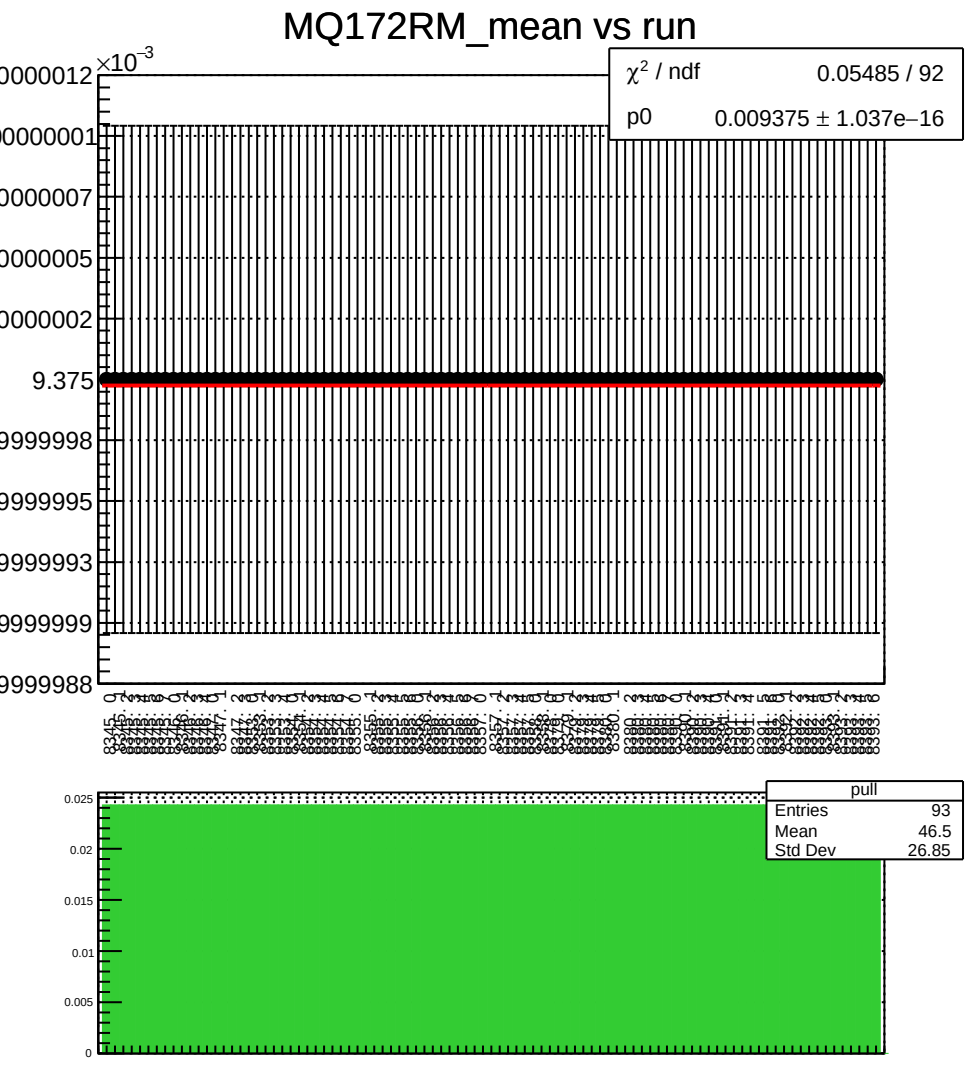

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

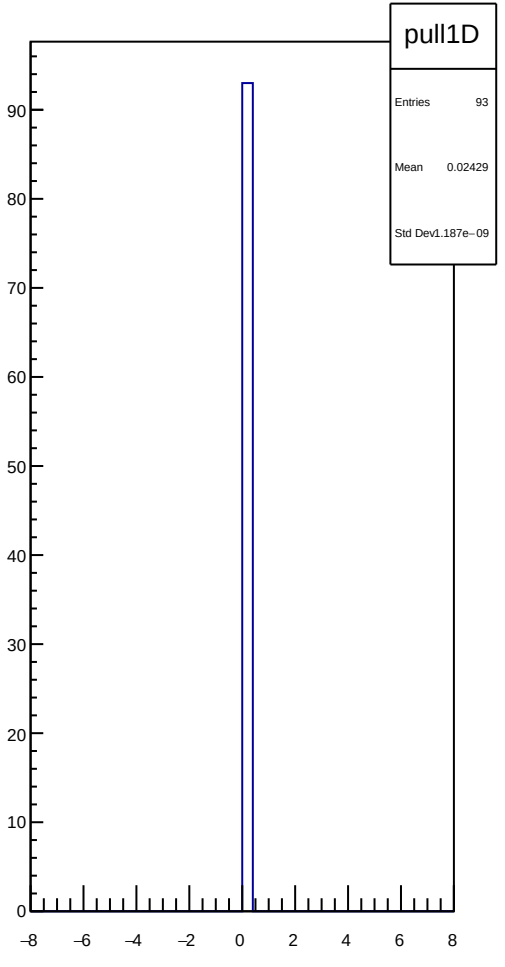

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 1.295e+27 / 92
p0 741 ± 1.037e−16
741.032
741.03
741.028
741.026
741.024
741.022
741.02
×10⁹
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean 1.41e+08
Std Dev 0

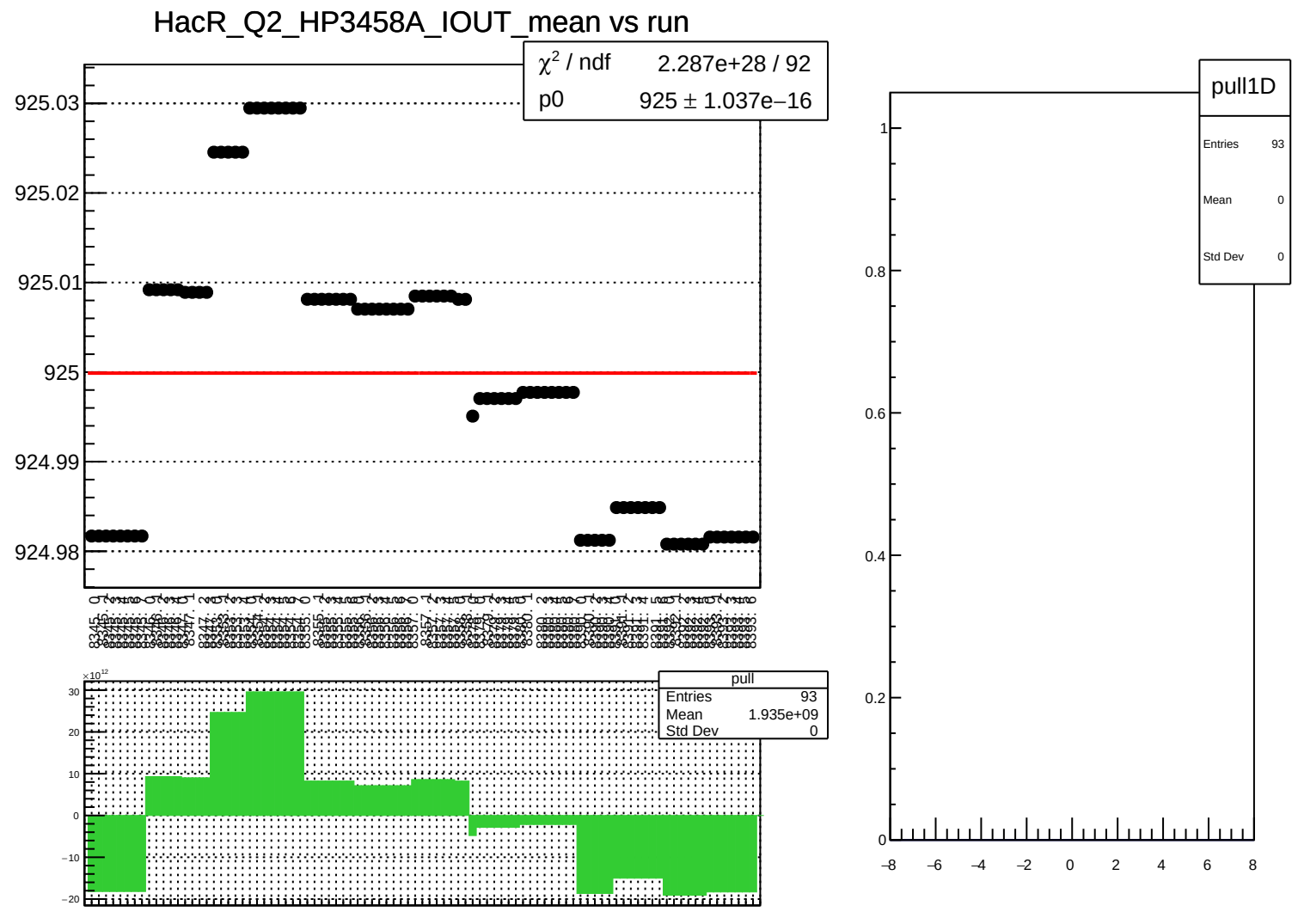

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

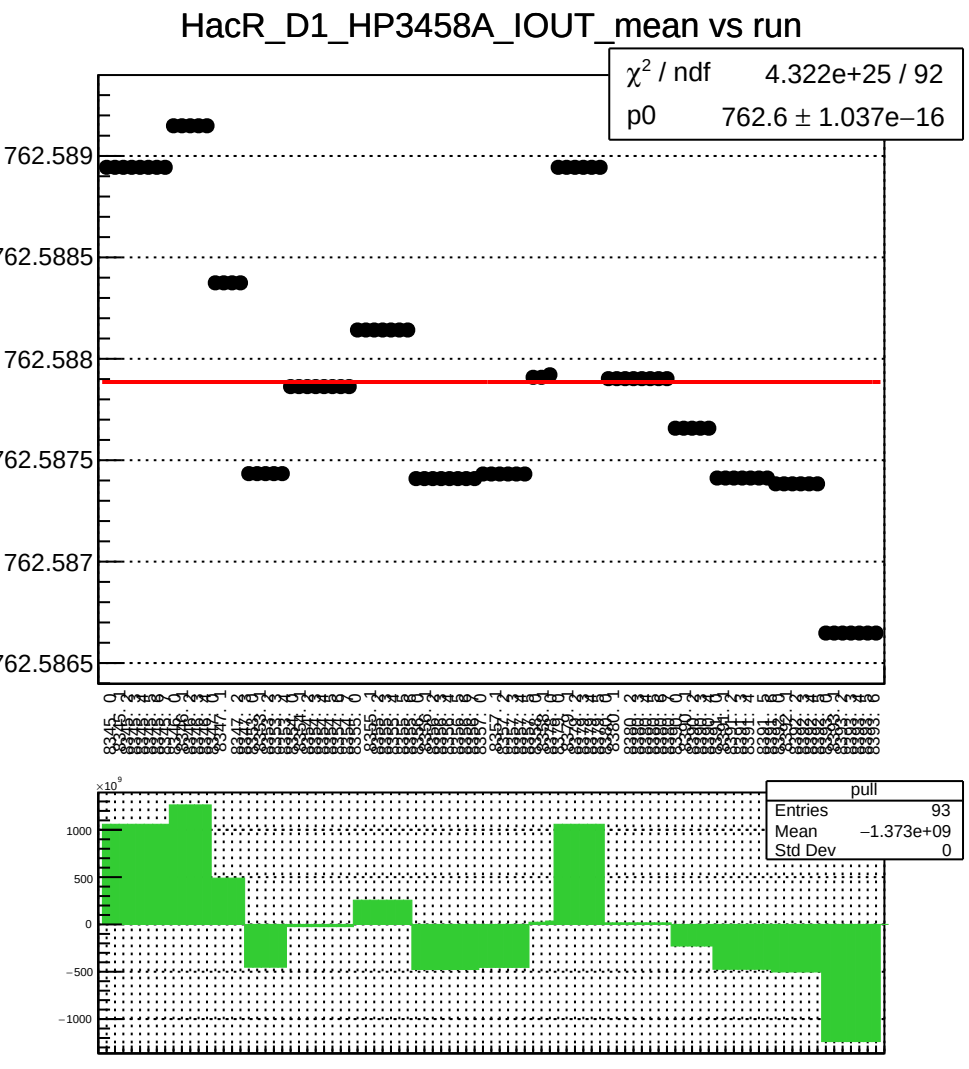

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 1.008e+28 / 92
p0 980.8 ± 1.037e−16
980.825
980.82
980.815
980.81
980.805
980.8
980.795
980.79
980.785
pull
Entries 93
Mean −1.165e+09
Std Dev 0
×10¹²
20
15
10
5
0
−5
−10
−15
−20

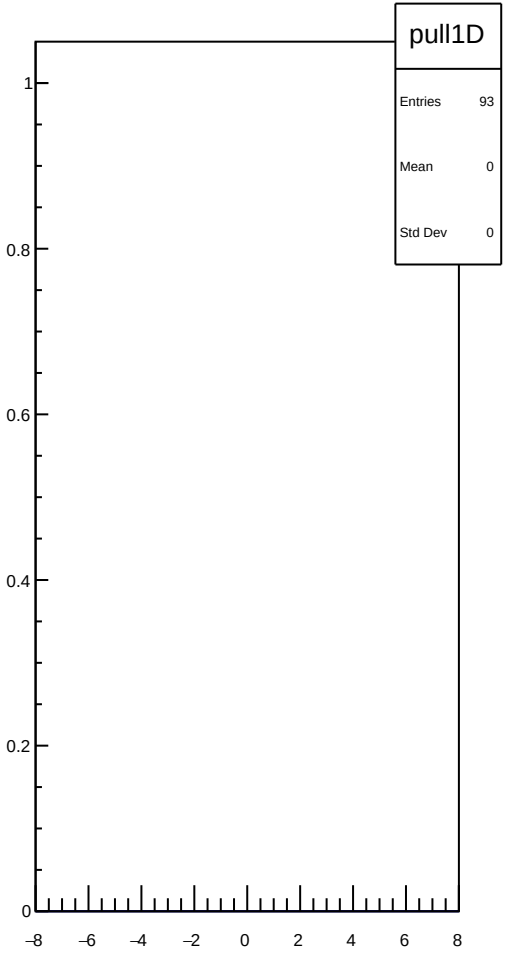

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

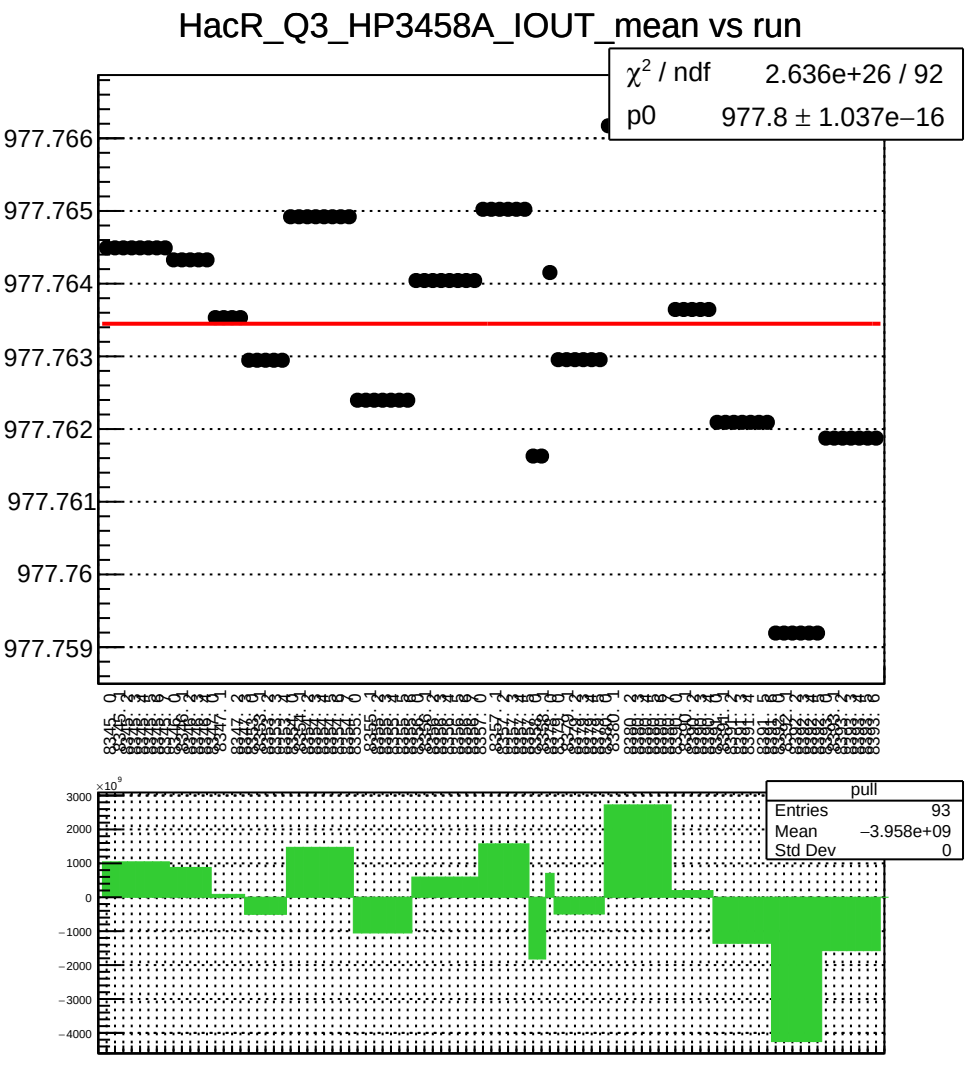

MQ172RM_mean vs run
×10⁻³
χ² / ndf 0.05485 / 92
p0 0.009375 ± 1.037e−16
9.375
pull
Entries 93
Mean 46.5
Std Dev 26.85

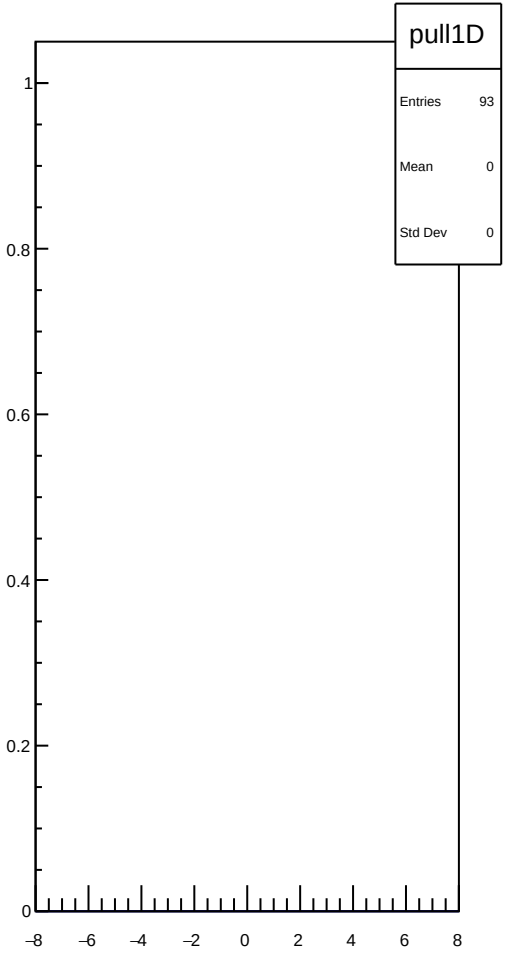

pull1D
Entries 93
Mean 0.02429
Std Dev1.187e−09

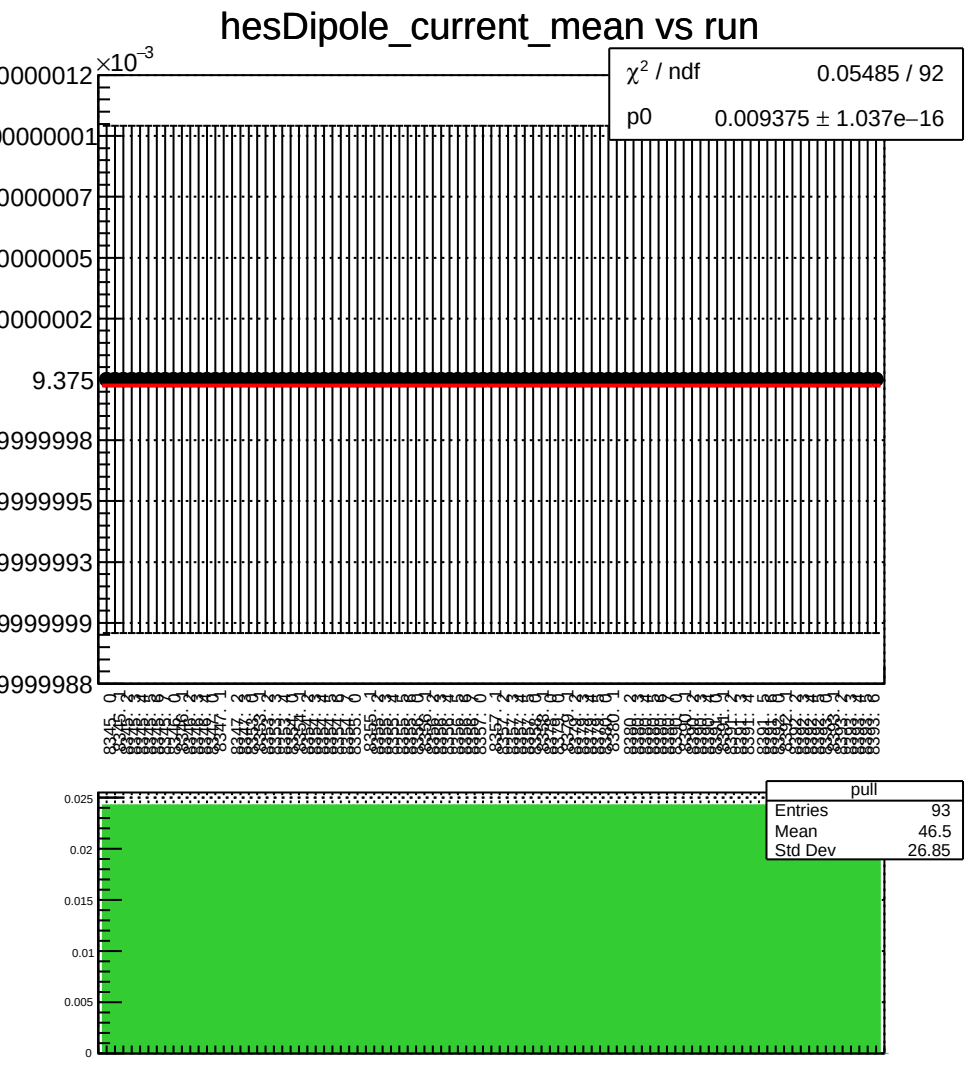

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 2.287e+28 / 92
p0 925 ± 1.037e−16
925.03
925.02
925.01
925
924.99
924.98
pull
Entries 93
Mean 1.935e+09
Std Dev 0
×10¹²
30
20
10
0
−10
−20
pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

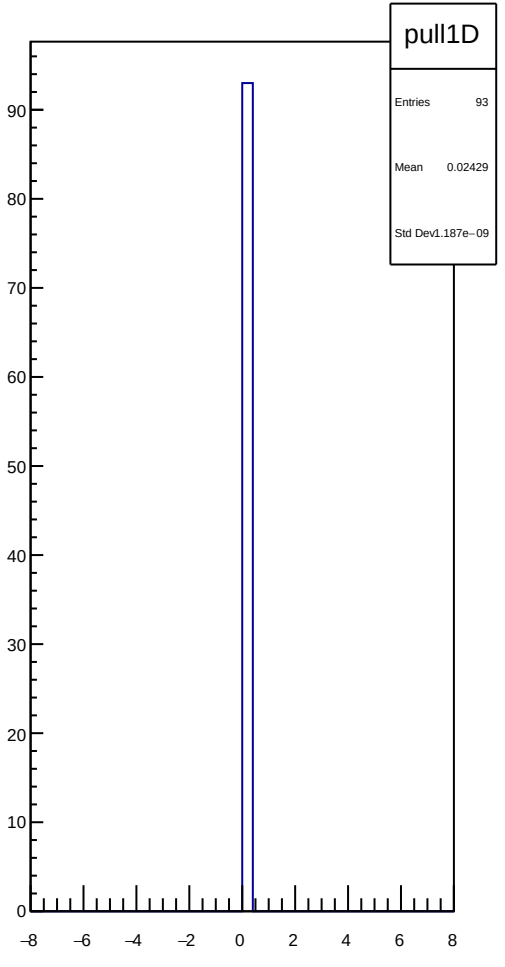

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 4.322e+25 / 92
p0 762.6 ± 1.037e−16
762.589
762.5885
762.588
762.5875
762.587
762.5865
×10⁹
1000
500
0
−500
−1000
pull
Entries 93
Mean −1.373e+09
Std Dev 0

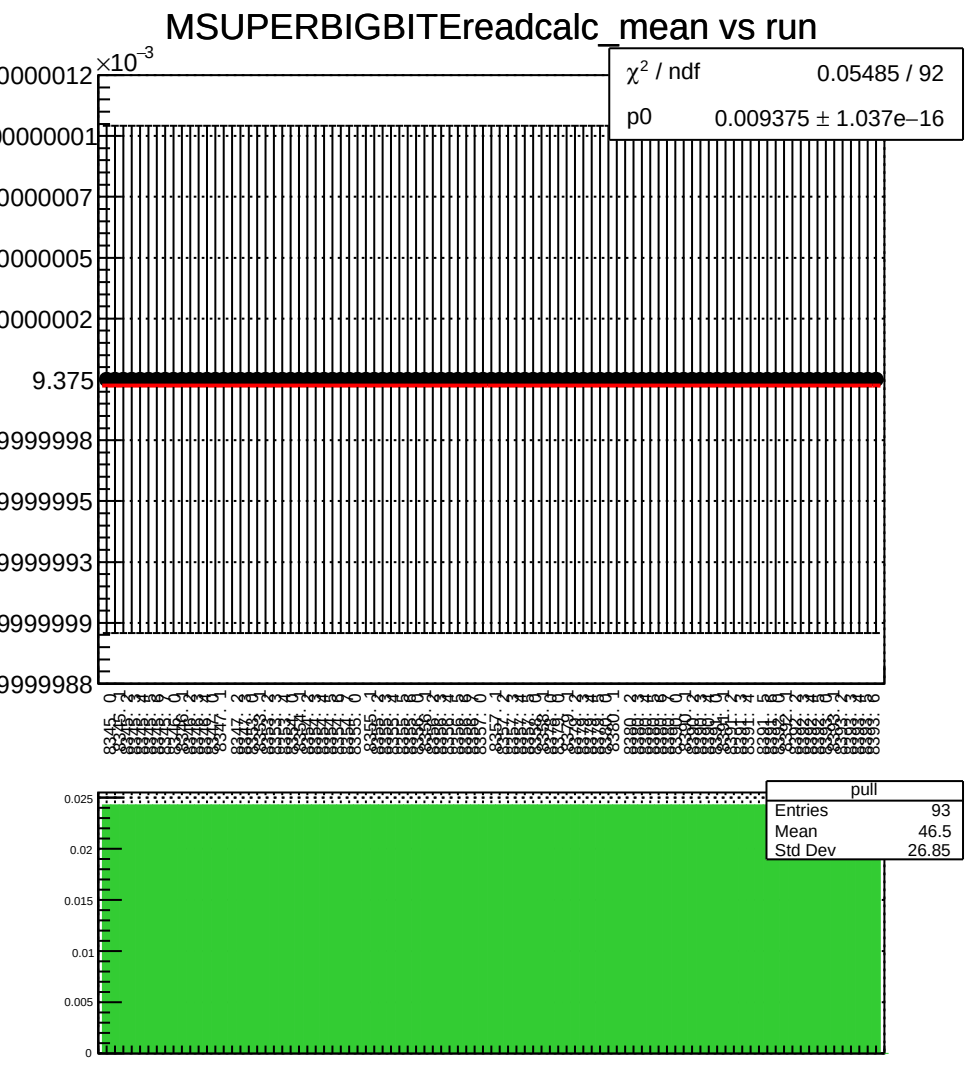

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

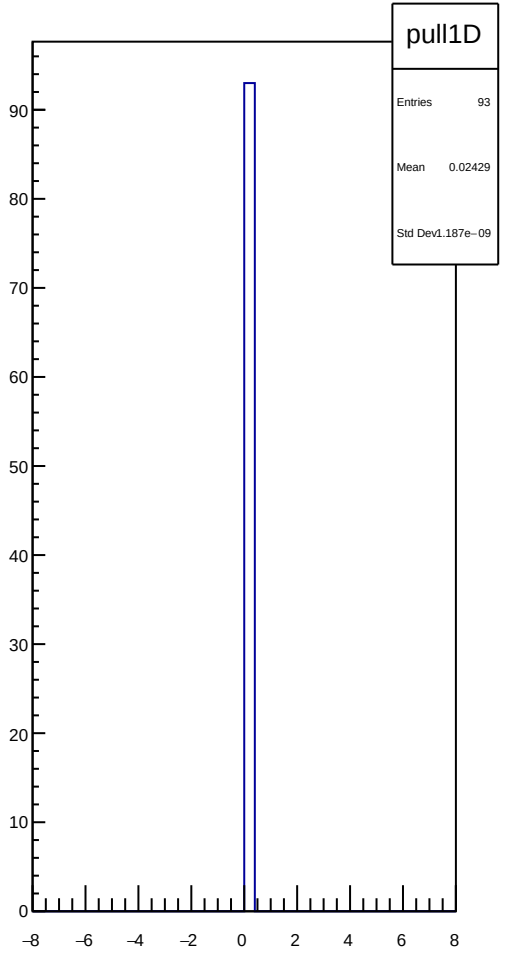

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 2.636e+26 / 92
p0 977.8 ± 1.037e−16
977.766
977.765
977.764
977.763
977.762
977.761
977.76
977.759
×10⁹
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 93
Mean −3.958e+09
Std Dev 0

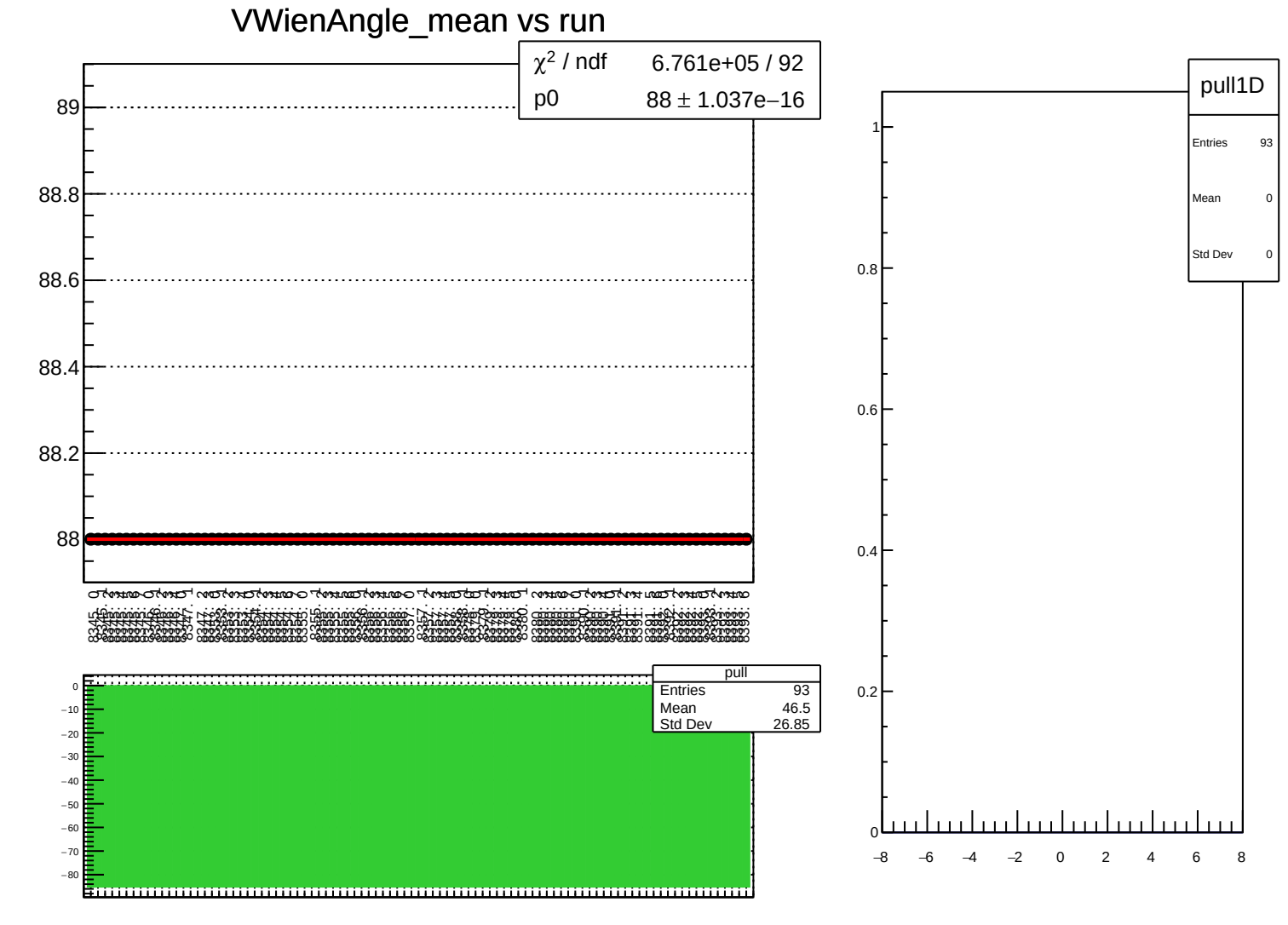

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

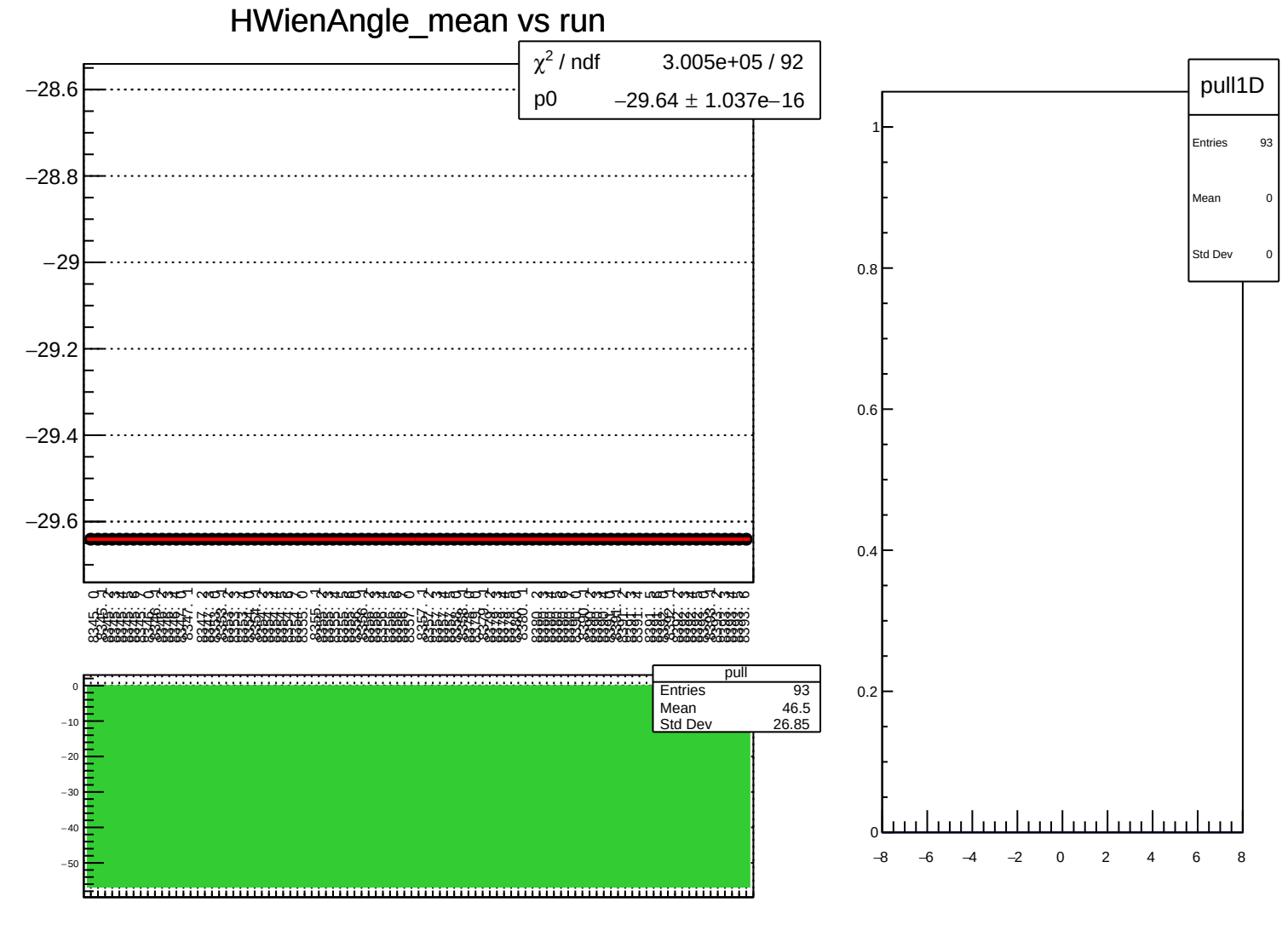

hesDipole_current_mean vs run
×10⁻³
χ² / ndf 0.05485 / 92
p0 0.009375 ± 1.037e−16
pull
Entries 93
Mean 46.5
Std Dev 26.85

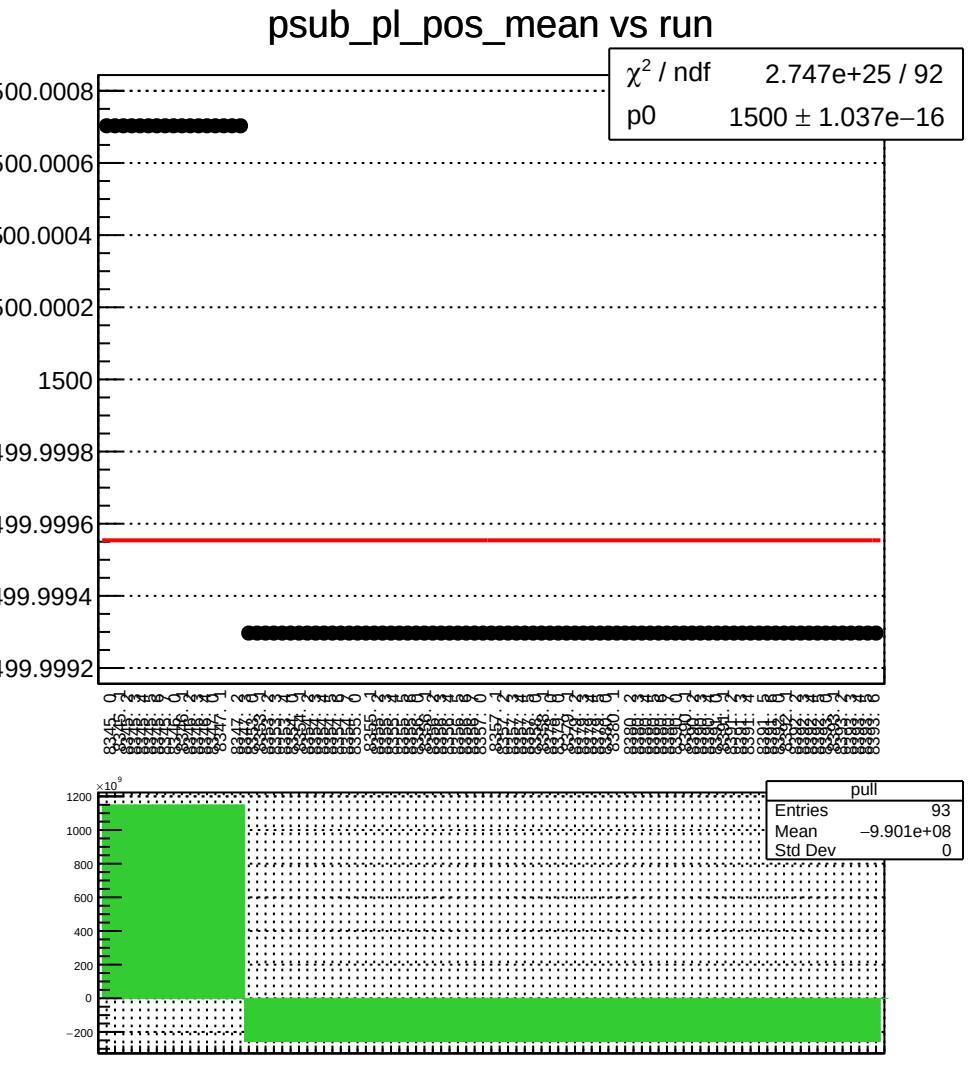

pull1D
Entries 93
Mean 0.02429
Std Dev1.187e−09

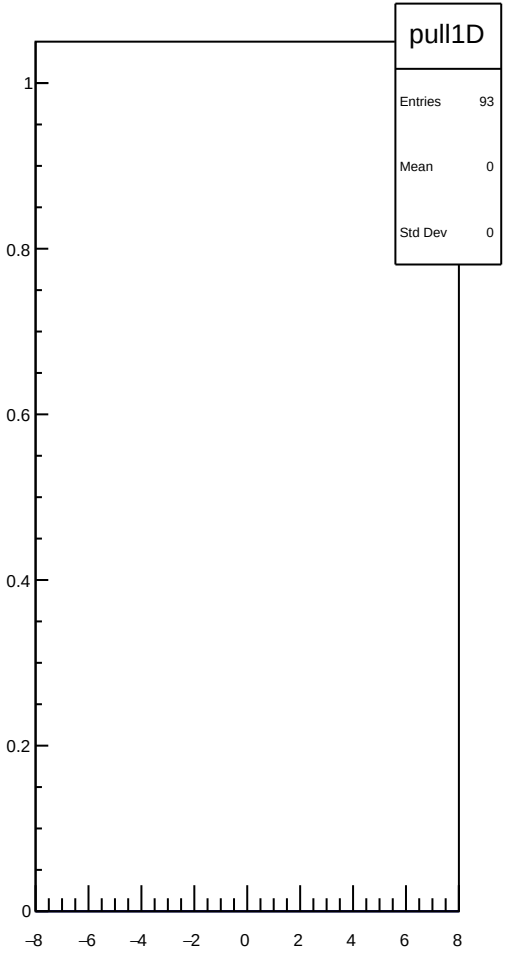

MSUPERBIGBITEreadcalc_mean vs run
×10⁻³
χ² / ndf 0.05485 / 92
p0 0.009375 ± 1.037e−16
9.375
pull
Entries 93
Mean 46.5
Std Dev 26.85
0.025
0.02
0.015
0.01
0.005
0

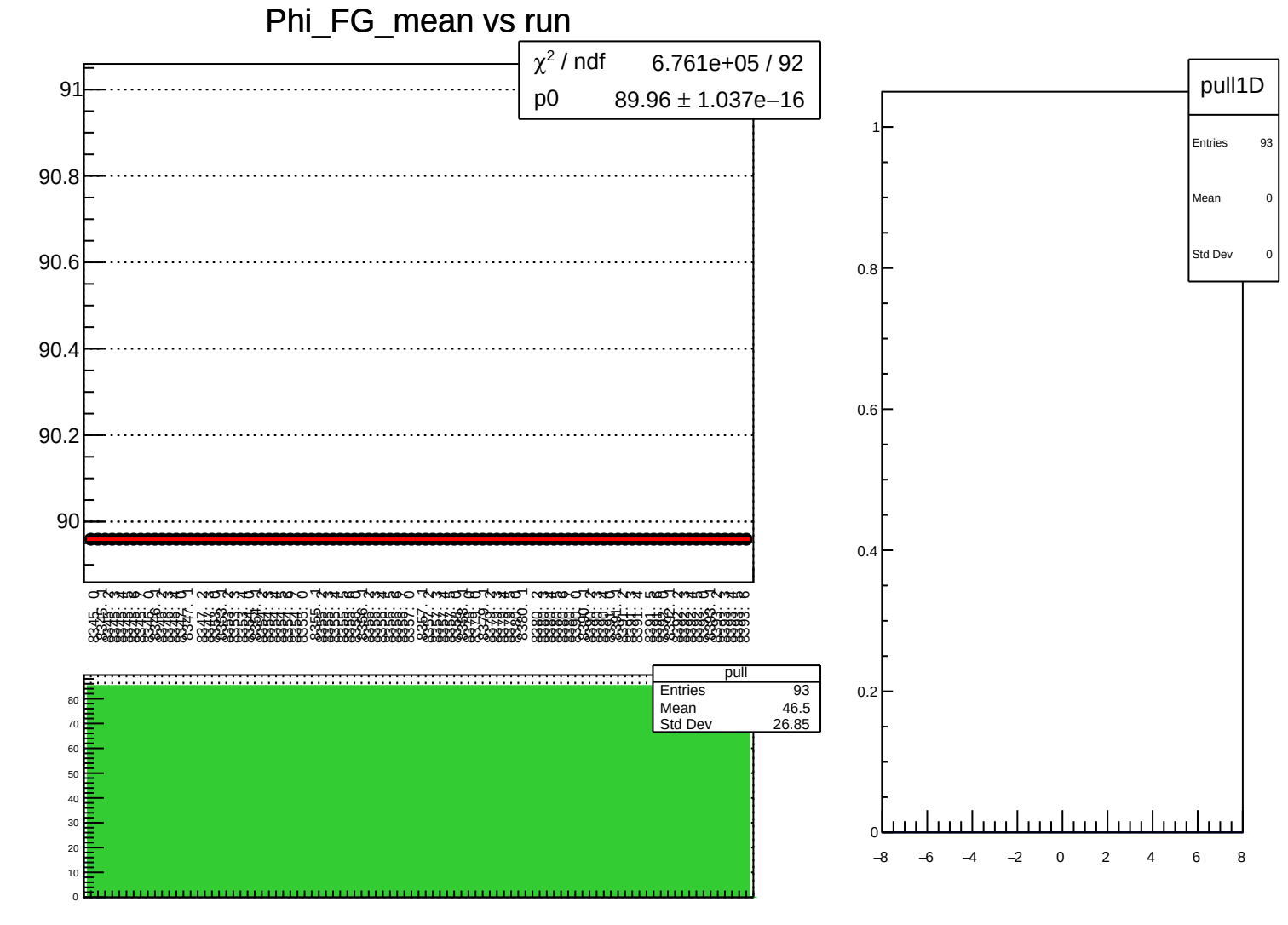

pull1D
Entries 93
Mean 0.02429
Std Dev1.187e−09
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

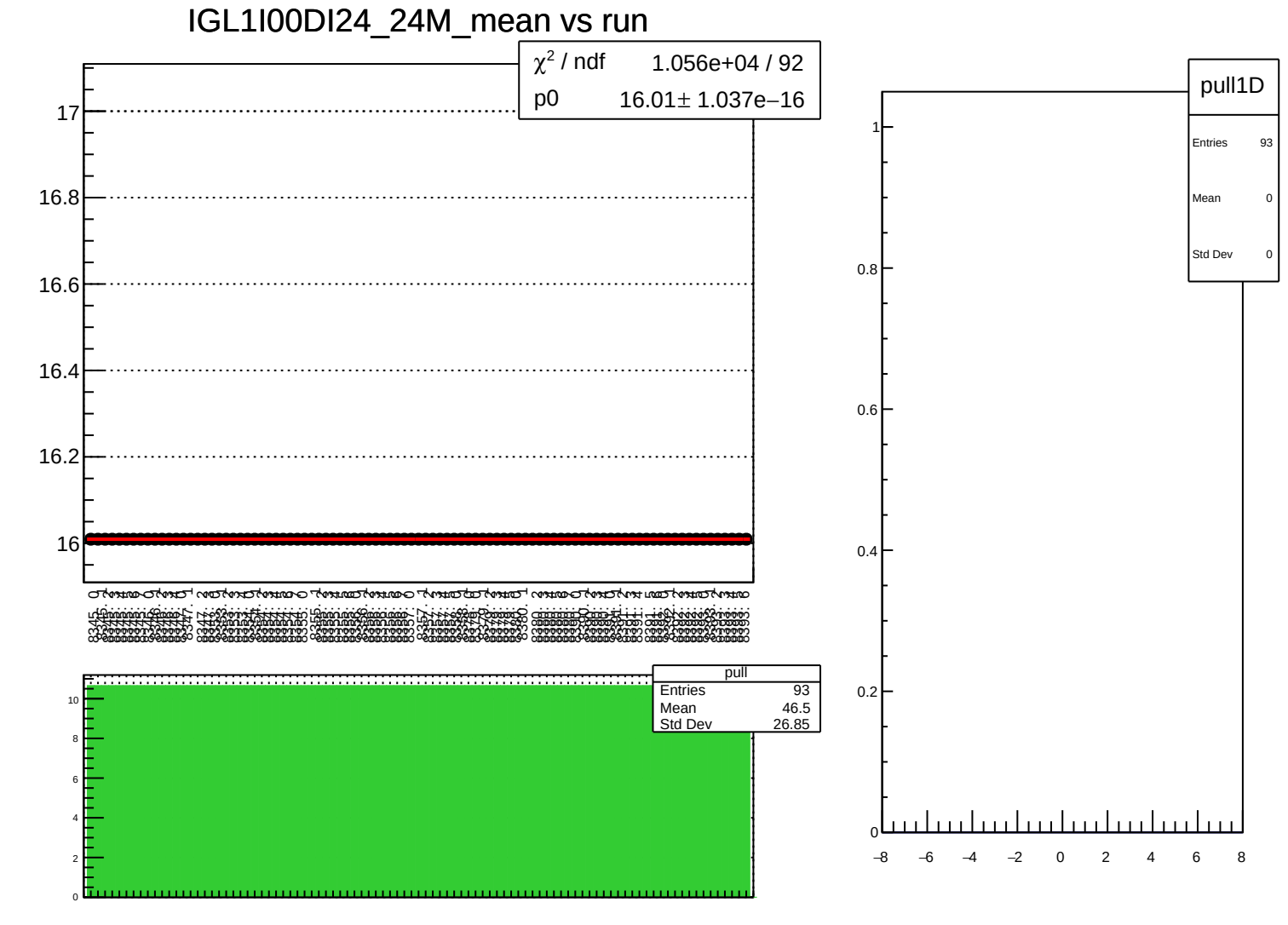

VWienAngle_mean vs run
χ² / ndf 6.761e+05 / 92
p0 88 ± 1.037e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 93
Mean 46.5
Std Dev 26.85
0
−10
−20
−30
−40
−50
−60
−70
−80
pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

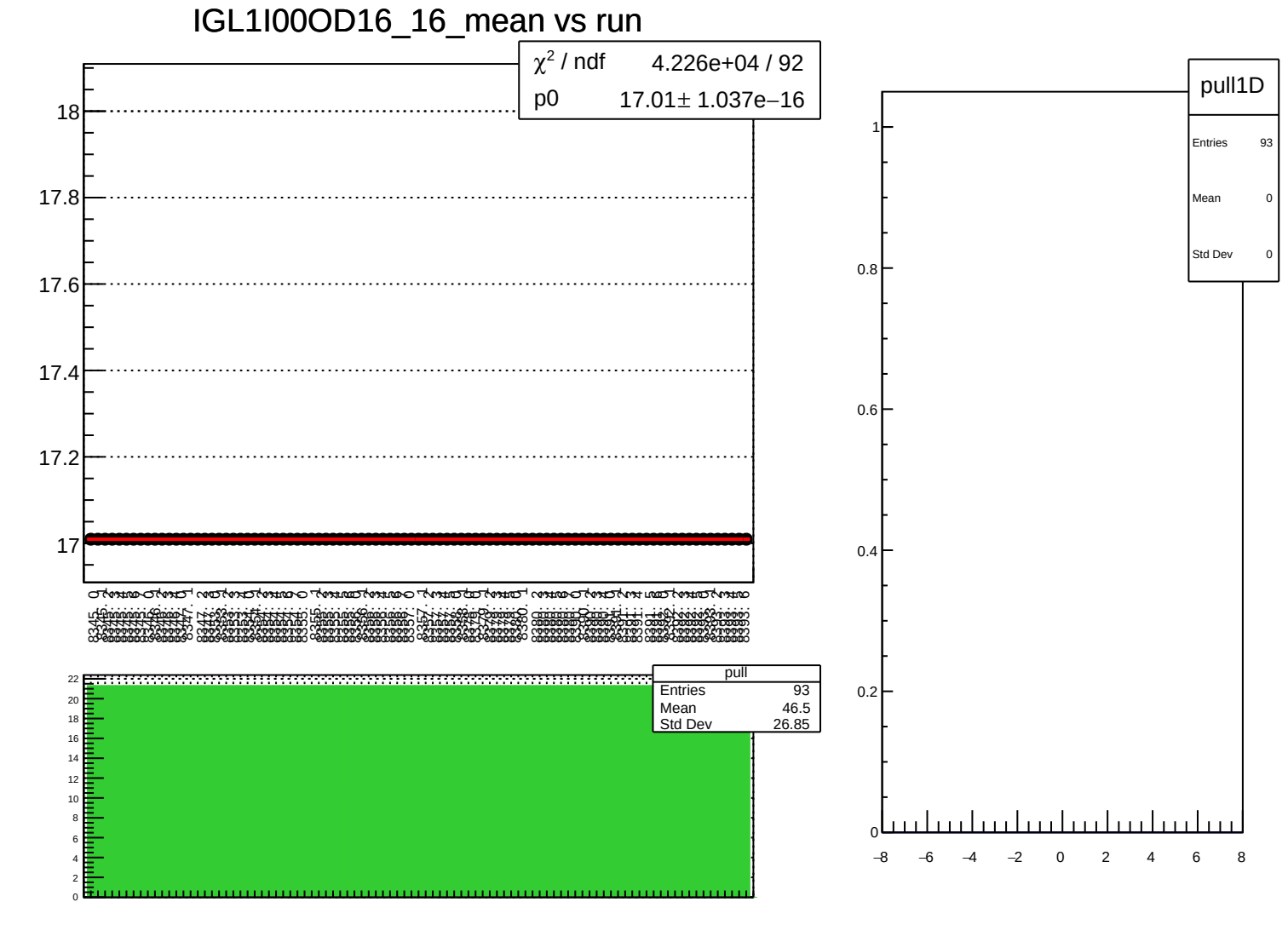

HWienAngle_mean vs run
χ² / ndf 3.005e+05 / 92
p0 −29.64 ± 1.037e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 93
Mean 46.5
Std Dev 26.85
0
−10
−20
−30
−40
−50
pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

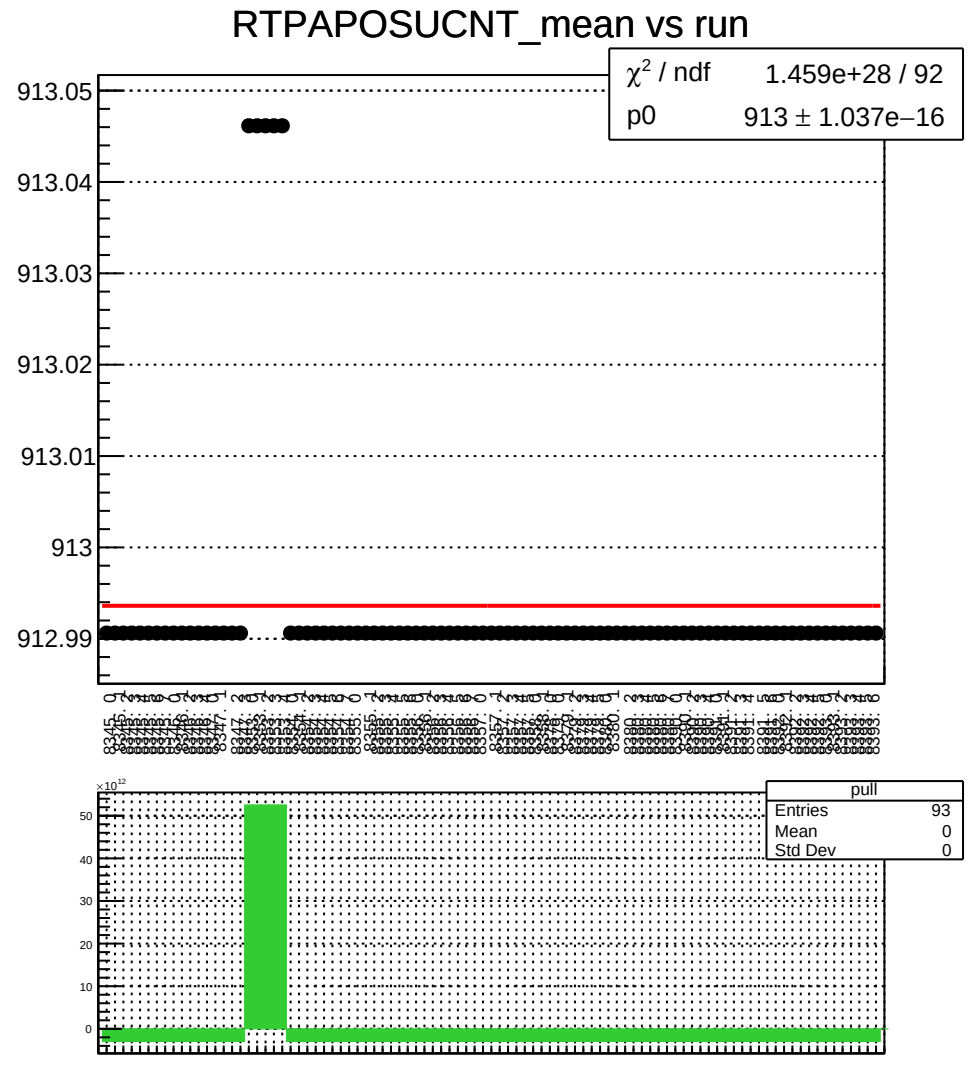

psub_pl_pos_mean vs run
χ² / ndf 2.747e+25 / 92
p0 1500 ± 1.037e−16
500.0008
500.0006
500.0004
500.0002
1500
499.9998
499.9996
499.9994
499.9992
pull
Entries 93
Mean −9.901e+08
Std Dev 0
×10⁹
1200
1000
800
600
400
200
0
−200

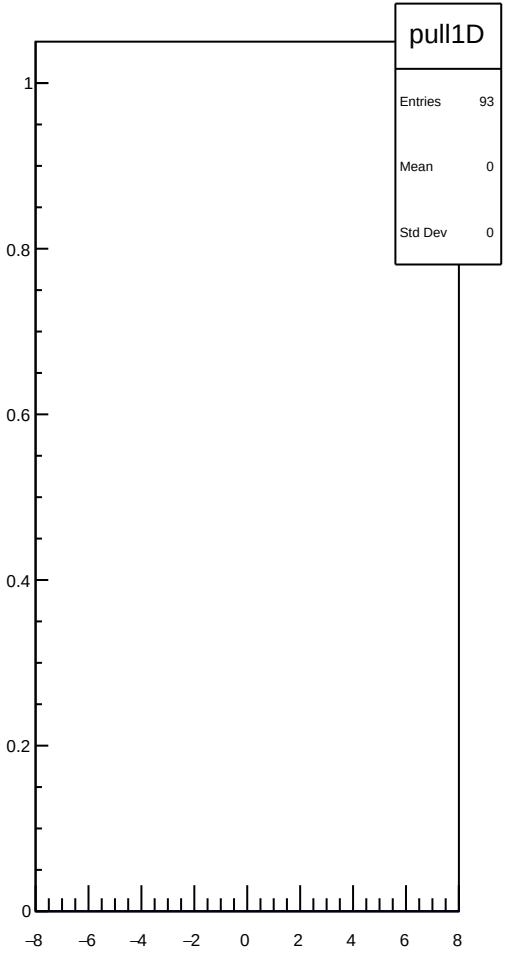

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

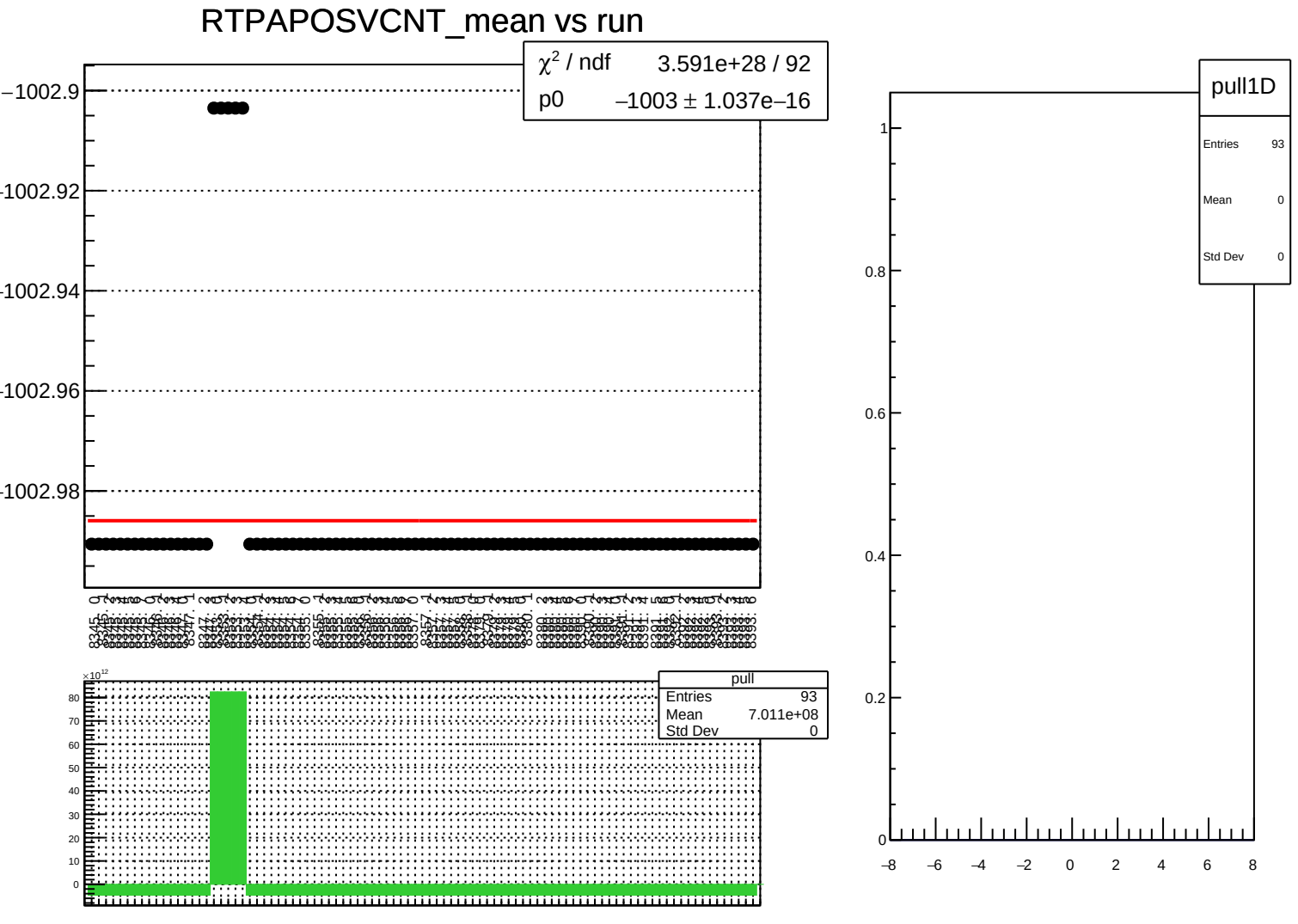

Phi_FG_mean vs run
χ² / ndf 6.761e+05 / 92
p0 89.96 ± 1.037e−16
91
90.8
90.6
90.4
90.2
90
pull
Entries 93
Mean 46.5
Std Dev 26.85
80
70
60
50
40
30
20
10
0
pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

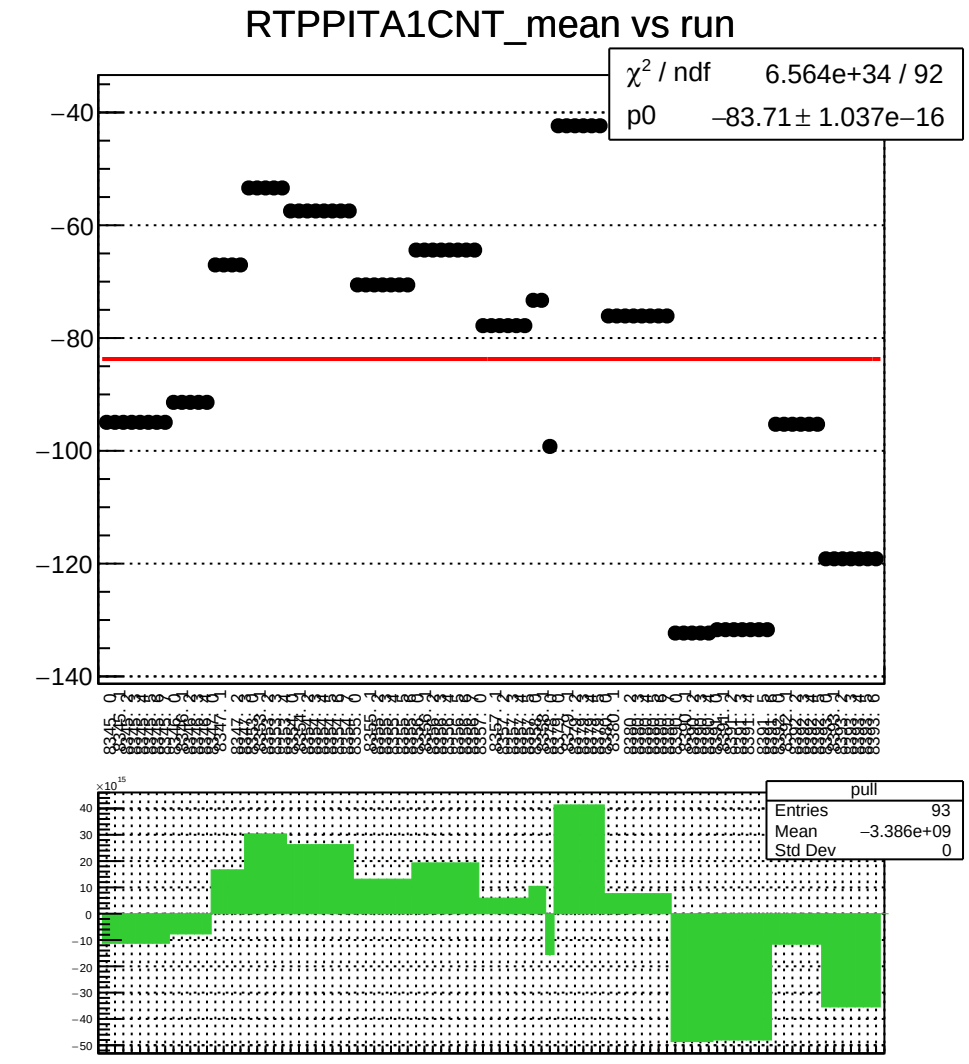

IGL1I00DI24_24M_mean vs run
χ² / ndf 1.056e+04 / 92
p0 16.01± 1.037e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 93
Mean 46.5
Std Dev 26.85
10
8
6
4
2
0
pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

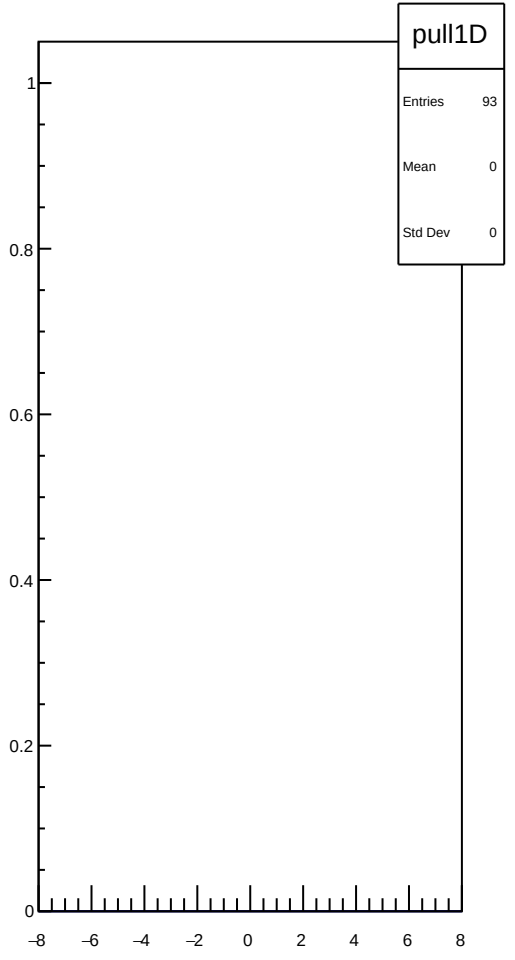

IGL1I00OD16_16_mean vs run
χ² / ndf 4.226e+04 / 92
p0 17.01± 1.037e−16
18
17.8
17.6
17.4
17.2
17
pull
Entries 93
Mean 46.5
Std Dev 26.85
22
20
18
16
14
12
10
8
6
4
2
0
pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

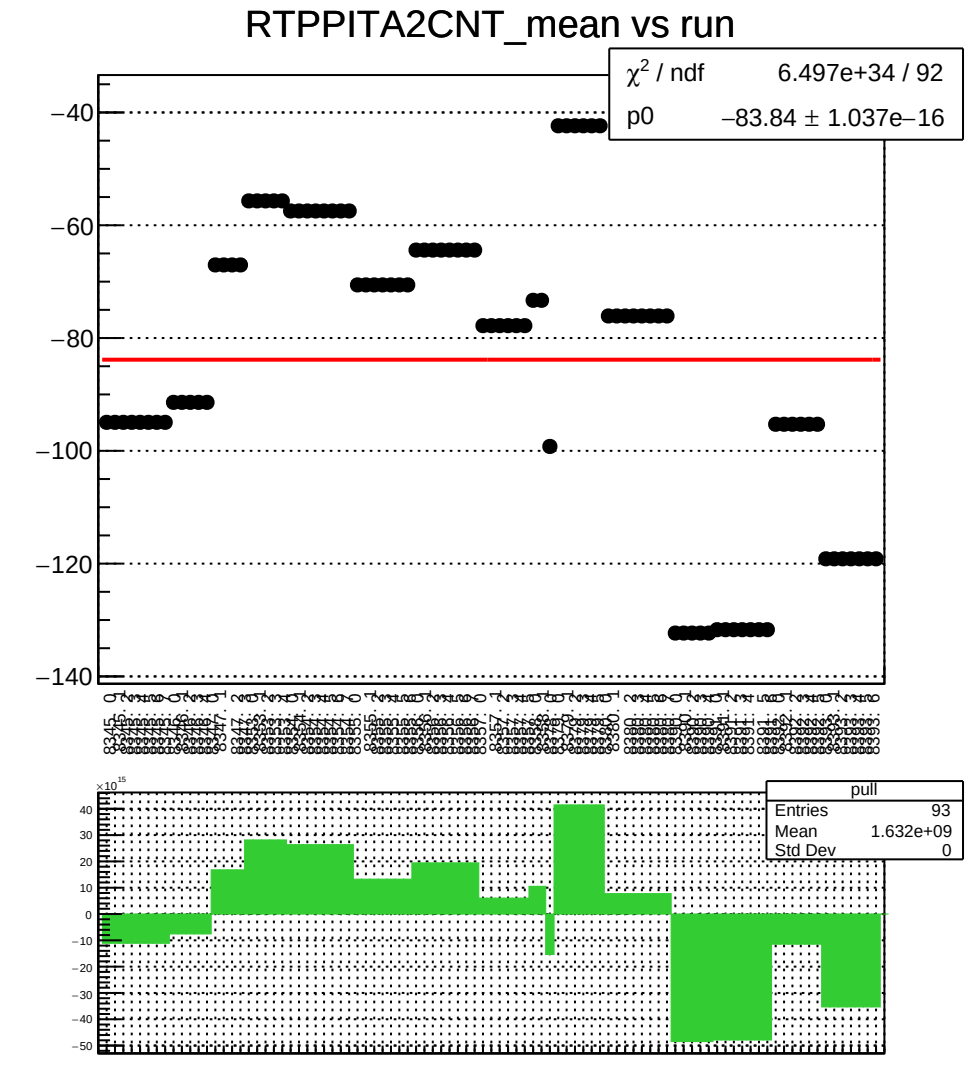

RTPAPOSUCNT_mean vs run
χ² / ndf 1.459e+28 / 92
p0 913 ± 1.037e−16
913.05
913.04
913.03
913.02
913.01
913
912.99
pull
Entries 93
Mean 0
Std Dev 0
×10¹²
50
40
30
20
10
0

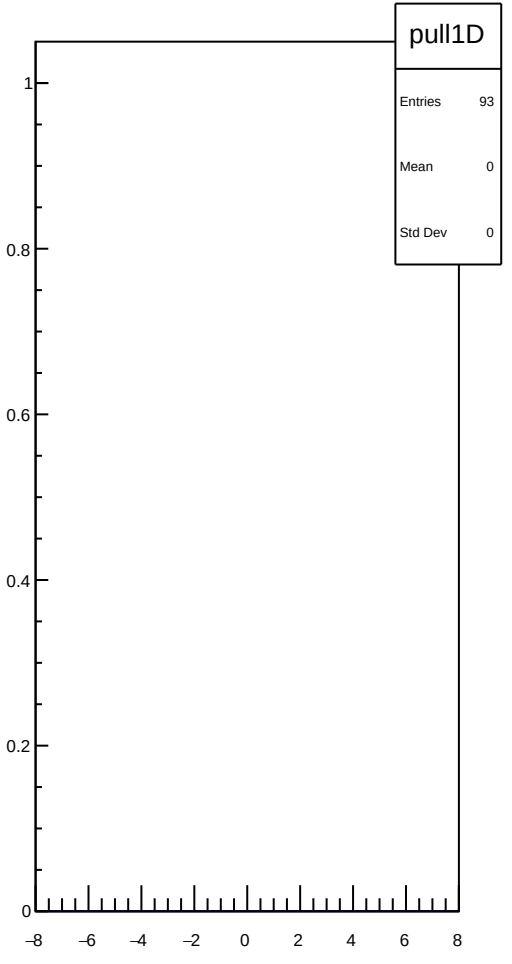

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSVCNT_mean vs run
χ² / ndf 3.591e+28 / 92
p0 −1003 ± 1.037e−16
−1002.9
−1002.92
−1002.94
−1002.96
−1002.98
pull
Entries 93
Mean 7.011e+08
Std Dev 0
×10¹²
80
70
60
50
40
30
20
10
0
pull1D
Entries 93
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 6.564e+34 / 92
p0 −83.71 ± 1.037e−16
pull
Entries 93
Mean −3.386e+09
Std Dev 0


pull1D
Entries 93
Mean 0
Std Dev 0


RTPPITA2CNT_mean vs run
χ² / ndf 6.497e+34 / 92
p0 −83.84 ± 1.037e−16
−40
−60
−80
−100
−120
−140
pull
Entries 93
Mean 1.632e+09
Std Dev 0
×10¹⁵
40
30
20
10
0
−10
−20
−30
−40
−50


pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8